# Appendix A

# Sources of Linux Information

This appendix contains information on various sources of Linux information, such as online documents, books, and more. Many of these documents are available either in printed form, or electronically from the Internet or BBS systems. Many Linux distributions also include much of this documentation in the distribution itself, so after you have installed Linux these files may be present on your system.

## A.1 Online Documents

These documents should be available on any of the Linux FTP archive sites (see Appendix C for a list). If you do not have direct access to FTP, you may be able to locate these documents on other online services (such as CompuServe, local BBS's, and so on). If you have access to Internet mail, you can use the `ftpmail` service to receive these docucments. See Appendix C for more information.

In particular, the following documents may be found on `sunsite.unc.edu` in the directory `/pub/Linux/docs`. Many sites mirror this directory; however, if you're unable to locate a mirror site near you, this is a good one to fall back on.

You can also access Linux files and documentation using `gopher`. Just point your `gopher` client to port 70 on `sunsite.unc.edu`, and follow the menus to the Linux archive. This is a good way to browse Linux documentation interactively.

*The Linux Frequently Asked Questions List*

: The Linux Frequently Asked Questions list, or "FAQ", is a list of common questions (and answers!) about Linux. This document is meant to provide a general source of information about Linux, common problems and solutions, and a list of other sources of information. Every new Linux user should read this document. It is available in a number of formats, including plain ASCII, PostScript, and Lout typesetter format. The Linux FAQ is maintained by Ian Jackson, `ijackson@nyx.cs.du.edu`.

*The Linux META-FAQ*

The META-FAQ is a collection of "metaquestions" about Linux; that is, sources of information about the Linux system, and other general topics. It is a good starting place for the Internet user wishing to find more information about the system. It is maintained by Michael K. Johnson, `johnsonm@sunsite.unc.edu`.

*The Linux INFO-SHEET*

The Linux INFO-SHEET is a technical introduction to the Linux system. It gives an overview of the system's features and available software, and also provides a list of other sources of Linux information. The format and content is similar in nature to the META-FAQ; incidentally, it is also maintained by Michael K. Johnson.

*The Linux Software Map*

The Linux Software Map is a list of many applications available for Linux, where to get them, who maintains them, and so forth. It is far from complete—to compile a complete list of Linux software would be nearly impossible. However, it does include many of the most popular Linux software packages. If you can't find a particular application to suit your needs, the LSM is a good place to start. It is maintained by Jeff Kopmanis, `jeffk@msen.com`.

*The Linux HOWTO Index*

The Linux HOWTOs are a collection of "how to" documents, each describing in detail a certain aspect of the Linux system. They are maintained by Matt Welsh, `mdw@sunsite.unc.edu`. The HOWTO Index lists the HOWTO documents which are available (several of which are listed below).

*The Linux Installation HOWTO*

The Linux Installation HOWTO describes how to obtain and install a distribution of Linux, similar to the information presented in Chapter 2.

*The Linux Distribution HOWTO*

This document is a list of Linux distributions available via mail order and anonymous FTP. It also includes information on other Linux-related goodies and services. Appendix B is a condensed version of the list in the Distribution HOWTO.

*The Linux XFree86 HOWTO*

This document describes how to install and configure the X Window System software for Linux. See the section "5.1" for more about the X Window System.

*The Linux Mail, News, and UUCP HOWTOs*

These three HOWTO documents describe configuration and setup of electronic mail, news, and UUCP communications on a Linux system. Because these three subjects are often intertwined, you may wish to read all three of these HOWTOs together.

*The Linux Hardware HOWTO*

This HOWTO contains an extensive list of hardware supported by Linux. While this list is far from complete, it should give you a general picture of which hardware devices should be supported by the system.

*The Linux SCSI HOWTO*

The Linux SCSI HOWTO is a complete guide to configuration and usage of SCSI devices under Linux, such as hard drives, tape drives and CD-ROM.

*The Linux NET-2-HOWTO*

The Linux NET-2-HOWTO describes installation, setup, and configuration of the "NET-2" TCP/IP software under Linux, including SLIP. If you want to use TCP/IP on your Linux system, this document is a must read.

*The Linux Ethernet HOWTO*

Closely related to the NET-2-HOWTO, the Ethernet HOWTO describes the various Ethernet devices supported by Linux, and explains how to configure each of them for use by the Linux TCP/IP software.

*The Linux Printing HOWTO*

This document describes how to configure printing software under Linux, such as `lpr`. Configuration of printers and printing software under UNIX can be very confusing at times; this document sheds some light on the subject.

*Other online documents*

If you browse the `docs` subdirectory of any Linux FTP site, you'll see many other documents which are not listed here: A slew of FAQ's, interesting tidbits, and other important information. This miscellany is difficult to categorize here; if you don't see what you're looking for on the list above, just take a look at one of the Linux archive sites listed in Appendix C.

## A.2 Linux Documentation Project Manuals

The Linux Documentation Project is working on developing a set of manuals and other documentation for Linux, including man pages. These manuals are in various stages of development, and any help revising and updating them is greatly appreciated. If you have questions about the LDP, please contact Matt Welsh (`mdw@sunsite.unc.edu`).

These books are available via anonymous FTP from a number of Linux archive sites, including `sunsite.unc.edu` in the directory `/pub/Linux/docs/LDP`. A number of commercial distributors are selling printed copies of these books; in the future, you may be able to find the LDP manuals on the shelves of your local bookstore.

*Linux Installation and Getting Started*, by Matt Welsh

A new user's guide for Linux, covering everything the new user needs to know to get started. You hold this book in your hands.

*The Linux System Administrators' Guide*, by Lars Wirzenius

This is a complete guide to running and configuring a Linux system. There are many issues relating to systems administration which are specific to Linux, such

as needs for supporting a user community, filesystem maintenance, backups, and more. This guide covers them all.

*The Linux Network Administrators' Guide*, by Olaf Kirch
: An extensive and complete guide to networking under Linux, including TCP/IP, UUCP, SLIP, and more. This book is a very good read; it contains a wealth of information on many subjects, clarifying the many confusing aspects of network configuration.

*The Linux Kernel Hackers' Guide*, by Michael Johnson
: The gritty details of kernel hacking and development under Linux. Linux is unique in that the complete kernel source is available. This book opens the doors to developers who wish to add or modify features within the kernel. This guide also contains comprehensive coverage of kernel concepts and conventions used by Linux.

## A.3 Books and Other Published Works

The *Linux Journal* is a monthly magazine for and about the Linux community. It is distributed worldwide, and is an excellent way to keep in touch with the dynamics of the Linux world, especially if you don't have access to USENET news. See Appendix B for information on subscribing to the *Linux Journal*.

As we have said, not many books have been published dealing with Linux specifically. However, if you are new to the world of UNIX, or want more information than is presented here, we suggest that you take a look at the following books which are available.

### A.3.1 Using UNIX

**Title:** *Learning the UNIX Operating System*
**Author:** Grace Todino & John Strang
**Publisher:** O'Reilly and Associates, 1987
**ISBN:** 0-937175-16-1, $9.00

A good introductory book on learning the UNIX operating system. Most of the information should be applicable to Linux as well. I suggest reading this book if you're new to UNIX and really want to get started with using your new system.

**Title:** *Learning the* `vi` *Editor*
**Author:** Linda Lamb
**Publisher:** O'Reilly and Associates, 1990
**ISBN:** 0-937175-67-6, $21.95

This is a book about the `vi` editor, a powerful text editor found on every UNIX system in the world. It's often important to know and be able to use `vi`, because you won't always have access to a "real" editor such as Emacs.

### A.3.2 Systems Administration

**Title:** *Essential System Administration*
**Author:** Æleen Frisch
**Publisher:** O'Reilly and Associates, 1991
**ISBN:** 0-937175-80-3, $29.95

From the O'Reilly and Associates Catalog, "Like any other multi-user system, UNIX requires some care and feeding. *Essential System Administration* tells you how. This book strips away the myth and confusion surrounding this important topic and provides a compact, manageable introduction to the tasks faced by anyone responsible for a UNIX system." I couldn't have said it better myself.

**Title:** *TCP/IP Network Administration*
**Author:** Craig Hunt
**Publisher:** O'Reilly and Associates, 1990
**ISBN:** 0-937175-82-X, $24.95

A complete guide to setting up and running a TCP/IP network. While this book is not Linux-specific, roughly 90% of it is applicable to Linux. Coupled with the Linux NET-2-HOWTO and *Linux Network Administrator's Guide*, this is a great book discussing the concepts and technical details of managing TCP/IP.

**Title:** *Managing UUCP and Usenet*
**Author:** Tim O'Reilly and Grace Todino
**Publisher:** O'Reilly and Associates, 1991
**ISBN:** 0-937175-93-5, $24.95

This book covers how to install and configure UUCP networking software, including configuration for USENET news. If you're at all interested in using UUCP or accessing USENET news on your system, this book is a must-read.

### A.3.3 The X Window System

**Title:** *The X Window System: A User's Guide*

**Author:** Niall Mansfield
**Publisher:** Addison-Wesley
**ISBN:** 0-201-51341-2, ??

A complete tutorial and reference guide to using the X Window System. If you installed X windows on your Linux system, and want to know how to get the most out of it, you should read this book. Unlike some windowing systems, a lot of the power provided by X is not obvious at first sight.

### A.3.4 Programming

**Title:** *The C Programming Language*
**Author:** Brian Kernighan and Dennis Ritchie
**Publisher:** Prentice-Hall, 1988
**ISBN:** 0-13-110362-8, $25.00

This book is a must-have for anyone wishing to do C programming on a UNIX system. (Or any system, for that matter.) While this book is not obstensibly UNIX-specific, it is quite applicable to programming C under UNIX.

**Title:** *The Unix Programming Environment*
**Author:** Brian Kernighan and Bob Pike
**Publisher:** Prentice-Hall, 1984
**ISBN:** 0-13-937681-X, ??

An overview to programming under the UNIX system. Covers all of the tools of the trade; a good read to get acquainted with the somewhat amorphous UNIX programming world.

**Title:** *Advanced Programming in the UNIX Environment*
**Author:** W. Richard Stevens
**Publisher:** Addison-Wesley
**ISBN:** 0-201-56317-7, $50.00

This mighty tome contains everything that you need to know to program UNIX at the system level—file I/O, process control, interprocess communication, signals, terminal I/O, the works. This book focuses on various UNI standards, including POSIX.1, which Linux mostly adheres to.

### A.3.5 Kernel Hacking

**Title:** *The Design of the UNIX Operating System*
**Author:** Maurice J. Bach
**Publisher:** Prentice-Hall, 1986
**ISBN:** 0-13-201799-7, ??

This book covers the algorithms and internals of the UNIX kernel. It is not specific to any particular kernel, although it does lean towards System V-isms. This is the best place to start if you want to understand the inner tickings of the Linux system.

**Title:** *The Magic Garden Explained*
**Author:** Berny Goodheart and James Cox
**Publisher:** Prentice-Hall, 1994
**ISBN:** 0-13-098138-9, ??

This book describes the System V R4 kernel in detail. Unlike Bach's book, which concentrates heavily on the algorithms which make the kernel tick, this book presents the SVR4 implementation on a more technical level. Although Linux and SVR4 are distant cousins, this book can give you much insight into the workings of an actual UNIX kernel implementation. This is also a very modern book on the UNIX kernel—published in 1994.

# Appendix B

# Linux Distribution and Mail Order List

This appendix lists a number of the distributions of Linux which are available via anonymous FTP, from BBS systems, and via mail order. It also lists various services available for Linux. If you would like your service or distribution included in this list, please mail the author at `mdw@sunsite.unc.edu`.

*Disclaimer:* The author makes no guarantee as to the accuracy of any of the information listed in this Appendix. All information is included nearly verbatim from the distributors themselves; it has only been edited for clarity. In addition, the author is not affiliated in any way with any of the distributors listed in this Appendix, except for the Debian Linux Association. Inclusion in this Appendix does not indicate that the author endorses or supports any of the products or services listed here. This information is included here only as a service to the Linux community, not as an advertisement for any particular organization.

Please note that it is very likely that some of this information will be out of date by the time that you read this document. For this reason the date of last modification for each entry is given. If an entry appears to be dated, please get in touch with the distributor to receive the latest information.

## B.1 Linux Software Distributons

### B.1.1 Slackware Linux Distribution

**Distributor:**

Patrick Volkerding, `volkerdi@mhd1.moorhead.msus.edu`.

**Description:**

Slackware Linux is a full featured distribution of the Linux operating system designed for 386/486 computers with a 3.5" floppy. Slackware changes rapidly, but here's a current (partial) feature list:

**A series (14 disks):**

Base Linux 1.0 kernel OS and utilities. Networking, UUCP, gcc/g++ 2.5.8, libc 4.5.24, and more.

**E series (5 disks):**

Emacs 19.22.

**F series (1 disk):**

FAQs, HOWTOs, and other documentation.

**OI series (3 disks):**

ObjectBuilder 2.0 for X.

**X series (5 disks):**

Base XFree86 2.1 X windows system with fvwm.

**XAP series (2 disks):**

X windows applications such as seyon and ghostview.

**XD series (3 disks):**

X windows program/server development.

**XV series (2 disks):**

XView 3.2 release 5, Open Look Window Manager.

**Y series (1 disk):**

Games from BSD, such as "hunt".

**Availability:**

The home site is `ftp.cdrom.com`, where the latest distribution can be found in `/pub/linux/slackware`. To make it easy to download, the disks can also be found pre-zooed in `/pub/linux/zooed_slackware`. (Zoo is just a compression utility for MS-DOS).

**Ordering:**

FTP only, although various independent distributors provide it on disk, floppy, and CD.

**Entry last modified:**

5 Nov 93.

### B.1.2 MCC Interim Linux

The current MCC-Interim release is based on 0.99.pl10, which is quite robust. If you are one of those people who demands to be on top of the current release, you'll need to upgrade your kernel (easy to do) and possibly your version of GCC and libraries. However, I see no reason why 0.99.pl10 shouldn't be good enough, at least to get you started.

**Distributor:**

Dr. A. V. Le Blanc, `LeBlanc@mcc.ac.uk`.

**Description:**

Base Linux installation. Complete sources and patches for all included software are available. Full details vary from release to release; see `/pub/linux/mcc-interim/*/Acknowledgements` at `ftp.mcc.ac.uk`. Roughly: this includes the kernel (with source), C, C++, groff, man pages, basic utilities, networking. The binaries fit on 6 or 7 floppies. It is also possible to have them on a DOS or Linux partition on a hard drive (plus one floppy) or on an NFS-mountable partition (plus two floppies). New versions appear at 2-3 month intervals, depending on various factors.

**Availability:**

By anonymous ftp from `ftp.mcc.ac.uk`; mirrored at `tsx-11.mit.edu`, `nic.funet.fi`, and elsewhere. At `ftp.mcc.ac.uk`, in `/pub/linux/mcc-interim`.

**Miscellaneous:**

Suggestions and contributions are welcome.

**Entry last modified:**

31 Oct 93.

### B.1.3 TAMU Linux Distribution

**Distributor:**

Dave Safford, Texas A&M University, `dave.safford@net.tamu.edu`.

**Description:**

TAMU.99p12+ is the latest release in the TAMU linux series. Unlike previous releases, this one includes both *integrated source* and binary sets, with the entire binary set created from a single top level source make. This ensures that all programs are compiled and linked with the same current tools and libraries, and guarantees availability of working source for every program in the binary set. In addition, the new boot diskette fully automates the installation process, including partitioning, lilo bootstrapping, and network configuration. Installation requires no rebooting, and requires the user to know only the host's name and IP address. At every step of installation, the program provides intelligent defaults, making it a snap for novices, while allowing experts full flexibility in setting installation parameters. Reliability has been improved over past TAMU installation by the use of labels on all disk images, so that the program can detect and recover from bad or misordered diskettes.

This release is a full featured package, including XFree86-1.3, emacs-19.18, net-2, bootutils, and sources for all installation programs (without any use restrictions :-).

**Availability:**

The latest TAMU release is available by anonymous ftp `from net.tamu.edu:pub/linux`.

**Entry last modified:**

31 Oct 93.

### B.1.4 Linux Support Team Erlangen Distribution (LST)

**Distributor:**

The Linux Support Team Erlangen, a small group of students at the University of Erlangen-Nuernberg. Contact Stefan Probst (`snprobst@cip.informatik.uni-erlangen.de`) or Ralf Flaxa (`rfflaxa@informatik.uni-erlangen.de`). Probably, there will be a collective address soon.

**Description:**

The LST distribution's goal is to provide a solid, reliable, easy to install (even for beginners) and well-documented system. We are not hunting for the newest kernel or gcc versions. We do updates when they are necessary or provide really new functionality, are well tested, integrated in the system and working smoothly with the rest of the system. The distribution consists of a base system and additional packages. Currently the following packages are available: doku (doc), text, tex, develop, xdevelop, xbasis, xappl, xemacs, tinyx, network, grafik, src, misc.

The complete system is 50 HD disks and 1500 pages printed documentation including the LDP guides (IGS,KHG,NAG), HOWTOs, FAQs, the german Linuxhandbuch, install-guide and many other useful documents we collected over the time.

Our distribution is preconfigured for german users and comes with a 50 page step by step installation guide that leads you through the menu-driven installation scripts (both in german). We started this distribution to help newcomers with their first steps into Linux. Therefore our scripts are smart enough to handle all of the "dirty work" like setting up system configuraton (including LILO, modem, mouse, mounts, mtools, access to DOS, users, X11) and network configuration (TCP/IP, Routing, Mail, News, UUCP, SLIP).

Historically (and of course easier for us) most of the documentation for this distribution is written in german, sorry, but we are planning to translate those documents in english, but at the moment we don't have time for this. Any volunteers are welcome!

Our scripts also accept to install SLS and Slackware packages, but with no warranty if they work well together with the rest of the system.

**Availability:**

Via anonymous ftp: `ftp.uni-erlangen.de` under `pub/Linux/LST.Distribution`, or on 3.5" disks (also on one QIC-80 tape).

**Ordering:**

order at following adress: Stefan Probst, In der Reuth 200, 91056 Erlangen, Germany.

- complete documentation (IGS, LHB, KHG, GDB, NAG, HOWTOs, FAQs, Installguide) together over 1500 pages for DM 139,– (plus shipping).
- complete documentation plus complete distribution on QIC-80 tape (about 65 MB) for DM 199,– (including shipping in Germany).
- complete documentation plus complete distribution on about 50 3.5" disks for DM 269,– (including shipping in Germany).

**Entry last modified:**

21 Dec 93.

### B.1.5 S.u.S.E. GmbH German Linux CD-ROM

**Distributor:**

S.u.S.E. GmbH
Gebhardtstr. 2
90762 Fuerth
Germany

**Description:**

This is a CD especially for German users. It contains a german version of the Slackware Distribution and two additional german distributions based on Slackware and SLS. It contains additional software, such as the Postgres system, the pbm-Tools and lots of other tools and utilities (ctwm window manager, GREAT environment, andrew toolkit, the POV-ray raytracer and so on). The source code of the complete system is included, too, as is a live system to enable using software without the need to install everything to the harddrive. The current version of the CD contains version 1.2.0 of the Slackware distribution containing version 1.0 of the linux kernel, version 2.5.8 of the GNU-Compiler and XFree86*tm* 2.1.

A german installation guide will help new users to successfully install the system.

The CD ist updated every three months, so the next one will be released in July 1994.

**Ordering:**

You can order by mail, by phone (49-911-74053-31), by Fax (49-911-7417755) or by sending email to `bestellung@suse.de`.

*Price:* The price for a single CD is 89,– DM for new customers. If you are already a S.u.S.E.-customer, you will get the CD for an update-price of 78,– DM. There is also the posibility to subscribe for one year; then you will receive 4 CDs for the price of 230,– DM.

*Disks:* Of course, you can get the german version of the Slackware Distribution on 3,5" disks. You can get either a basis version of the distribution (about 28 disks) for 89,– DM, the "standard" version (about 38 disks) for 119,– DM or the "full" version (about 59 disks) for 159,– DM. The update prices are 69,– DM, 94,– DM and 139,– DM respectively.

*Documentation:* S.u.S.E. is selling high-quality printed issues of the books from the Linux Documentation project (LDP) for people that would like to have a real book and not only printed loose papers. The prices are 24,– DM for Matt Welsh's *Linux Installation and Getting Started*, 39,– DM for Olaf Kirch's *Network Administrators' Guide* and 29,– DM for Michael K. Johnson's *Kernel Hackers' guide*. Additionally, S.u.S.E. offers the complete O'Reilly series which is the best documentation available for Unix in general. Of course you can order the well known german Linux books: *Deutsches Anwenderhandbuch* for 49,– DM and *Linux - vom PC zur Workstation* for 38,– DM.

*Motif:* Metrolink Motif for Linux is available for the price of 169,– DM for the runtime system only and for the price of 288,– DM you will get the runtime and development system.

**Miscellaneous:**

Service and support for our customers by Email, Fax, snail mail and phone (hotline Monday and Thursday from 13:00h-17:00h.)

Free info material and catalogues of CDROMs and books. (All Infomagic Unix CDs available).

Selling commercial software for Linux.

Development of individual software for Linux and other Unix systems.

Almost anything concerning Linux - just ask!

**Entry last modified:**

23 May 1994

### B.1.6 Debian Linux Distribution

**Distributor:**

Ian A. Murdock, `imurdock@gnu.ai.mit.edu`.

**Description:**

For those of you who are not familiar with Debian, it is an effort to create a well thought-out, powerful, flexible yet complete Linux distribution. The motivations behind Debian are detailed in the Debian Manifesto, a copy of which can be acquired as described below.

For up-to-date information, please look at the files in the directory `/pub/Linux/distributions/debian/info` at `sunsite.unc.edu`. If you do not have access to the Internet or FTP, you may obtain printed copies by sending a self-addressed, stamped envelope to:

```
The Debian Linux Association
Station 11
P.O. Box 3121
West Lafayette, IN  47906
USA
```

This information includes how Debian can be obtained (via FTP or mail-order), why Debian is being constructed (the Manifesto) and other general information (including how to join the Debian mailing lists).

**Availability:**

Debian has not yet been "officially" released, but BETA releases are available to the general public at `sunsite.unc.edu` in the directory `/pub/Linux/distributions/debian`.

**Entry last modified:**

21 Feb 94.

### B.1.7 Yggdrasil Plug-and-Play Linux CD-ROM and the Linux Bible

**Distributor:**

Yggdrasil Computing, Incorporated
4880 Stevens Creek Blvd., Suite 205
San Jose, CA 95129-1034
toll free (800) 261-6630, (408) 261-6630, fax (408) 261-6631
info@yggdrasil.com

**Description:**

Yggdrasil Plug-and-Play Linux is a complete CD-ROM distribution of the Linux operating system. It includes a great deal of software—nearly every package that you would expect to find on a complete UNIX system is available. A complete file list is available via FTP from `yggdrasil.com`.

The Linux Bible is a compendium of Linux documentation, including 3 books from the Linux Documentation Project, The Yggdrasil installation manual, and the complete set of Linux HOWTO guides.

At the top of the sophistication hierarchy, programmers who want to explore or add the occasional feature know that Yggdrasil is the Linux distribution with a fully buildable source tree and with the ability to automatically trace installed files back to their sources.

Users who want maximum performance will appreciate that the major system components have been recompiled with `-O6` optimization, and the SCSI clustering which reduces the build time on the source tree from 28 to 22 hours (over 20%) on 486DX2-66. Using IDE? Activate the multisector IDE code!

Everybody, especially new users, will appreciate the Plug-and-Play operation for which Yggdrasil's product is named. Put the media in a computer with supported hardware, turn the computer on, and it's running everything, straight from the CDROM.

The login screen lists a number of preconfigured user names, including "install", which installs the system, giving paragraphs of explanation about every question that it asks the user. The install script even searches for a modem, and, upon finding it, configures mail and UUCP so that mail sent to an internet address is transparently delivered through a bulletin board system at Yggdrasil.

X windows configuration is automated too, prompting the user for configuration information the first time `xinit` is run.

From X windows, a graphical control panel allows simple "fill in the blanks" configuration of networking, SLIP, outgoing UUCP, the printer, NNTP, and many other features that previously required the knowledge of a system administrator to configure.

For more information, send mail to `info@yggdrasil.com`, FTP to `yggdrasil.com`, or contact us by any convenient method.

**Ordering:**

Plug-and-Play Linux costs $39.95 is and available directly from Yggdrasil or from your local computer, software or technical book store. If Plug-and-Play Linux is not available from your favorite reseller, help promote Linux by making it your mission to change that. Give your reseller our phone number and demand that they carry Plug-and-Play Linux.

Yggdrasil offers a $10 discount for upgrades or crossgrades. Send us your old Yggdrasil release and a check for $29.95 + $5 shipping and handling to upgrade. Or do the same, but send us a competing distribution such any version of SCO, Esix, minix, or one of the CD's with the slackware floppy images, and tell us where you got it, so that we can make sure that your favorite reseller carries our products too.

**Miscellaneous:**

Yggdrasil also sells OSF/Motif and The Linux Bible, a compilation of works from the Linux Documentation project. In addition to a copy of the Plug-and-Play Linux manual, The Linux Bible includes *Linux Installation and Getting Started*, *Network Administrator's Guide*, *Kernel Hacker's Guide*, and HOWTO guides on hardware compatibility, distributions, dos emulation, ethernet, floppy tape, installation, mail, networking version 2, MGR (an alternative to X windows), X windows, usenet news, printing, SCSI, serial communications, sound, and UUCP. The Linux Bible costs $39.95 and is printed on recycled paper. $1 from every copy sold is donated to the Linux Documentation Project. OSF/Motif costs $149.95, $5 of which is donated to the development of a free Motif clone.

**Entry last modified:**

16 May 1994

### B.1.8 Linux from Nascent CD-ROM

**Distributor:**

Nascent Technology

**Description:**

The Linux from Nascent CDROM is a new distribution of the Linux operating system which includes over 400 mbytes of source code, binaries, and documentation for Linux and applications. It features automated root, swap, package, network, and user account installation from CDROM. Linux can be can be run directly from the CDROM and floppy. The Nascent CDROM features Xwindows, Openlook, TeX, GNU compiler and utilities, Magic and Spice electronic design tools, and over 100 high resolution images translated from Kodak PhotoCD(TM). Each source archive is distributed with an associated notes file to allow you to browse and install applications using a consistent interface.

A listing of the contents of the Nascent CDROM as well as a current copy of the CDROM announcement and order form may be obtained via anonymous ftp at `netcom.com:/pub/nascent`.

**Ordering:**

The Linux from Nascent CDROM, Version 1.0, is only $39.95 plus shipping and handling. Nascent also offers the Linux from Nascent Plus package for only $89.95, which includes six months of email support and a 30
the CDROM with your CDROM purchase. Nascent accepts Mastercard, VISA, checks, and money orders as payment.

To order your Linux from Nascent CDROM, mail, email or fax a completed order form to:

```
Nascent Technology
Linux from Nascent CDROM
P.O. Box 60669
Sunnyvale CA 94088-0669 USA
Tel: (408) 737-9500
Fax: (408) 241-9390
Email: nascent@netcom.com
```

**Entry last modified:**

28 Nov 93.

### B.1.9 Unifix 1.02 CD-ROM

**Distributor:**

Unifix Software GmbH, Braunschweig, Germany

**Description:**

This is a Linux CD-ROM distribution with emphasis on easy and fast installation. Though it is possible to install everything on the harddisk, we do not recommend so, because it runs fast enough directly from CD. For example starting emacs the first time (in text mode) takes:

```
From single speed Mitsumi: 24 s
From double speed Mitsumi: 11 s
From Toshiba 3401:          7 s
```

The dynamic buffer cache of Linux takes care of the second and subsequent times a program is started, which needs less than one second.

Our system requires about 5 MB on the hard disk for configuration files and system management tools. Additionally we recommend a 16 MB swap partition. The distribution contains most of the standard programs in current versions, e.g. Linux 0.99.15e, XFree 2.0, emacs 19.22 and gcc 2.5.7. Full preconfigured source for everything is included.

Because Unifix is a european distribution it provides full support for iso8859-1 character sets. From the shells and emacs through ls, TeX and the print system everything supports 8-bit characters.

Printing is supported through System V compatible printer drivers which can be controlled through lp's `-o` options. Printer drivers are included for dumb text mode printers, for

postscript- or ghostscript- compatible printers and for networked printing. These drivers know how to guess the type of the files so e.g. compressed man pages or DVI files can be printed directly.

**Ordering:**

Unifix is available only on CD. It comes in a Unifix/Linux binder with two boot floppies and about 70 pages of installation instructions in german. An english version will be available Apr 94. The price is 159 DM (about $100) and includes taxes and shipping; Eurocard/Mastercard/Visa are accepted.

```
Telephone       +49 (0)531 515161
Fax             +49 (0)531 515162
Mail            Unifix Software GmbH
                Postfach 4918
                D-38039 Braunschweig
                Germany
```

**Entry last modified:**

18 Feb 94.

## B.2 Redistributors and Miscellany

This section lists re-sellers or re-distributors of the Linux distributions listed above. In other words, the people selling the below software more than likely do NOT maintain or support the software itself.

This section also lists distributors selling commercial software for Linux (such as Motif) and miscellany, such as documentation.

### B.2.1 Clark Internet Services

**Distributor:**

Clark Internet Services, C/O Stephen Balbach

**Description:**

The latest version of Linux on disk and tape direct from the net at affordable prices. 120MB installed on 3.5" disks. 90MB installed on 5.25" disks.

**Ordering:**

Slackware on 32 3.5" disks: $50 (USPS 2nd day). SLS on 32 5.25" disks: $40 (USPS 2nd day).

*Installation and Getting Started* (c) Copyright Matt Welsh. 150+page laser printed, professional bound manual. Everything to get installed and running in one easy book. $15 if ordering set (at cost price!). $20 seperate.

**Availability:**

For more complete information, including a multipage description of Linux, a hardware compatibility sheet, and more detailed package descriptions send mail to `linux-all@clark.net` for auto-reply info (30k of text).

**Ordering:**

Check, money-order

```
Stephen Balbach
5437 Enberend Terrace
Columbia, MD 21045
```

Credit Card orders call 410-740-1157 (Visa, MasterCard, AmXpres)

**Entry last modified:**

31 Oct 93.

### B.2.2 Extent Verlag, LDP Distribution

**Distributor:**

Extent Verlag Berlin, Germany

**Description:**

Extent has published the *Linux Installation and Getting Started* manual, Version 2.0 by Matt Welsh in order to make it available to Linux users within Germany and Europe. Inspite of being non-commercial, the manual was printed with 2540 dpi and bound in soft cover. It's handy paperback format is 148 x 210 mm. Other LDP manuals are being prepared as soon as possible.

Extent also tries to make SLACKWARE available to everybody within Germany and Europe just for the ordinary diskette price. This means, you pay only the diskettes and get the newest SLACKWARE distribution for free, just in the sense of Free Software. The 3.5" diskettes are fully error-checked, of course.

**Availability:**

Extent Verlag Berlin, Postfach 12 66 48, D-10594 Berlin, Germany. phone +49 30 3244021, fax +49 30 3249685.

**Ordering:**

*Linux Installation and Getting Started*, 192 pages. ISBN 3-926671-12-2. Costs within Germany DM 15.80 (tax and shipping included), within Europe DM 16.50 (shipping included).

Full Slackware (latest version) on 50 diskettes. Within Germany, DM 100.00 plus DM 10.00 for shipping. Within Europe, DM 100.00 plus DM 20.00 for shipping.

Ordering by sending cheque to address above or money order (don't forget your address!) to Extent Verlag Berlin, Germany Postbank Berlin, BLZ 10010010, bank account 1769-104 or every book store.

**Entry last modified:**

25 March 1994.

### B.2.3 Fintronic Linux Systems

**Distributor:**

Fintronic Linux Systems

**Description:**

We sell fully installed, custom configured Linux systems for about the price which you'd pay for the hardware alone. We offer desktop and notebook machines. We ship worldwide and accept payment by check and credit cards. If you have any questions or would like to be added to our mailing list, send mail to `linux@fintronic.com`.

**Availability:**

For our latest pricelist, finger `linux@fintronic.com` or Web to `http://www.fintronic.com/linux/catalog.html`. Prices change frequently as we are constantly looking for the best deals for our customers.

**Ordering:**

```
email:  linux@fintronic.com
  fax:   +1.415.325-4908
voice:   +1.415.325-4474
 Mail:   Fintronic USA, Inc.
         1360 Willow Rd., Suite 205
         Menlo Park, CA 94025
         USA
```

**Entry last modified:**

24 Mar 94.

### B.2.4 InfoMagic Developer's Resource CD-ROM kit

**Distributor:**

InfoMagic, Inc.

**Description:**

The InfoMagic Linux Developer's Resource is a complete snapshot of the `sunsite.unc.edu` and `tsx-11.mit.edu` archives. It also includes the complete GNU software collection (in source form). The following Linux "distributions" are included on the discs: Slackware, Debian, SLS, TAMU, MCC, and JE (Japanese Extensions).

The Slackware distribution has been completely unpacked allowing many packages to be run directly from the disc. Sources for all the packages in Slackware are also included.

The Linux HOWTO documents have been formatted for use with the Microsoft Multimedia Viewer (which is included) to allow browsing and full-text search under Microsoft Windows.

**Availability:**

Before 1 September 1994:

```
InfoMagic, Inc.
PO Box 708
Rocky Hill, NJ 08553-0708

Tel: 800-800-6613 (within the US)/609-683-5501
Fax: 609-683-5502
email: Orders@InfoMagic.com
```

After 1 September 1994:

```
InfoMagic, Inc.
PO Box 30370
Flagstaff, AZ 86003-0370

Tel: 800-800-6613 (within the US)/602-526-9565
Fax: 602-526-9573
email: Orders@InfoMagic.com
```

**Ordering:**

The 2-CD set is $20/copy. Shipping within the US is $5 (USPS Priority Mail), outside the US $10 (International Airmail), FedEx and UPS on request. Orders may be placed via phone, fax, or email (a PGP key is available: finger `orders@InfoMagic.com`). We accept Visa, Mastercard, and AMEX. 1-year subscriptions are available for $125 (within the US) and $135 (outside the US) including shipping. A 1yr subscription consists of 6 releases, one every two months.

**Miscellaneous:**

The contents of the CD's may be found at either: `InfoMagic.com:/pub/Linux` or `ftp.uu.net:/vendor/InfoMagic/cd-roms/linux`.

This 2-CD set is updated every two months. Please call for latest info on contents, availability and pricing.

**Entry last modifiied:**

10 July 94.

### B.2.5 Lasermoon Ltd.

**Distributor:**

Lasermoon Ltd., `info@lasermoon.co.uk`, `support@lasermoon.co.uk`.

**Description:**

The following Linux products are distributed and supported, (although there are many more of interest):

- The Yggdrasil LGX CD-ROM
- The Infomagic Linux Developer Resource CD-ROM
- The Linux Journal (Monthly Mag), European Distributors

**Availability:**

Lasermoon Ltd, 2a Beaconsfield Road, Fareham, Hants, England. PO16 0QB. Voice +44 (0) 329 826444. Fax +44 (0) 329 825936. Email: `info@lasermoon.co.uk` (General enquiries), `support@lasermoon.co.uk` (Support desk), `lj@lasermoon.co.uk` (Linux Journal desk).

**Ordering:**

LGX currently 44.95ukp, LDR currently 12.95ukp All prices exclude postage and VAT at the UK rate (17.5
Discounts available - please call. Visa, Mastercard, Access, EuroCard accepted.

**Miscellaneous:**

We provide snapshots of any part of any product on (almost) any media. Call us for details.

Free catalogue of many other CD-ROM Freeware products for UNIX, DOS and Novell available on request (either by email or post). Books by SSC and O'Reilly Associates (10

**Entry last modified:**

16 Feb 94.

### B.2.6 Linux Journal

**Publisher:**

Linux Journal, P.O. Box 85867, Seattle, WA 98145-1867. Phone (206) 527-3385 (subscriptions) or (206) 524-8338 (advertising). FAX (206) 527-2806 (subscriptons) or (206) 526-0803 (advertising).

**Description:**

Linux Journal is a monthly publication covering the Linux Community. Most material in LJ is new (not reprinted from Usenet). Each issue includes columns and articles on Linux programming, Free Software Foundation issues, systems administration, Questions and Answers, interviews and more. LJ is a professional-quality magazine for the Linux community.

**Availability:**

Subscriptions are $19/year (US), $24/year (Canada/Mexico), $29/year (elsewhere).

**Ordering:**

Payment can be made using VISA, MasterCard or American Express (make sure you include the credit card number, expiration date and signature). We can also accept checks in native currency. If you have a question concerning appropriate method of payment, phone or FAX our subscription numbers or send e-mail to subs@ssc.com For security reasons we discourage sending credit card numbers via e-mail.

**Miscellaneous:**

If you are interested in advertising in LJ, contact Joanne Wagner by phone or e-mail at `joanne@fylz.com`. Article queries, new product announcements and other editorial material should be sent to our address above or e-mailed to `ljeditor@sunsite.unc.edu`. Generic questions can be sent to `linux@fylz.com`.

**Entry last modified:**

26 May 94.

### B.2.7 The Linux Quarterly CD-ROM

**Distributor:**

Morse Telecommunication, Inc.

**Description:**

The Linux Quarterly CDROM contains the complete contents of `tsx-11.mit.edu`, the one of the most popular Internet Linux sites which provides both source and binaries of major Linux distributions, utilities, source code and documentation. This includes Slackware, SLS, MCC and Debian releases of Linux. Additionally, beginning with the Spring 1994 edition, the complete contents of `prep.ai.mit.edu`, the repository of the FSF's GNU source archives, is included. For first-time users, this CDROM contains a Microsoft Windows(tm) front-end to assist the user in creating boot disks that can be used to install Linux directly from The Linux Quarterly CDROM. Support for the UMSDOS filesystem is now also This gives the user the ability to install Linux directly to an MSDOS system without having to repartion their hard drive. Ninety days of technical support is provided with each disc at no additional charge.

**Availability:**

```
Morse Telecommunication, Inc.
26 East Park Avenue, Suite 240
Long Beach, NY 11561
Orders:  (800) 60-MORSE
Tech Support:  (516) 889-8610
Fax:  (516) 889-8665
Email Orders:  Order@morse.net
Email info:  Linux@morse.net
Hours:  9AM - 5PM EST, Monday through Friday.  Fax available 24 hours.
```

**Ordering:**

Orders may be placed via phone, fax or email as listed above. The Linux Quarterly CDROM is priced at $29.95 plus $5 shipping and handling per order. Existing customers may upgrade for $22.95 plush S/H. All orders generally ship the same day if received by 4PM EST.

**Miscellaneous:**

The contents of the CDROM, the cover artwork in JPEG format, and the text of the USENET announcement can be found on the following FTP sites:

```
tsx-11.mit.edu:/pub/linux/advertisements/TLQ-Spring94.tar.z
sunsite.unc.edu:/pub/Linux/distributions/cdrom/TLQ-Spring94.tar.z
```

**Entry last modified:**

23 May 1994

### B.2.8 Linux Systems Labs

**Distributor:**

Linux Systems Labs, `dirvin@vela.acs.oakland.edu`.

**Description:**

Slackware (all 50 disks and I&GS) for $69.95(updated weekly), resell the Yggdrasil CDROM, Motif by Metrolink for $175.00 and bundle any version of Linux with Motif (version 1.2.4) for $215.00. We currently print LDP documents on a 600 DPI Duplexed on a laser printer.

We have begun publishing The Linux Bible: The GNU Testament, Spring Quarterly Edition, which includes *Linux Installation and Getting Started*, the Yggdrasil Plug-and-Play Linux Manual: Summer 1994, *The Linux Network Administrators' Guide* by Olaf Kirch, *The Kernel Hackers' Guide* by Michael K. Johnson, and the following HOWTOS: distribution, dosemu, ethernet, ftape, installation, mail, mgr, net-2, news, printing, scsi, serial, sound, uucp, xfree86.

Also we just started selling a commercial database called `/rdb` for Linux by Revolutionary Software for $149.00. (It's quite impressive.) Contact us for more information.

**Availability:**

Linux Systems Labs, 18300 Tara Drive, Clinton Twp MI 48036. Phone (313)954-2829, (800)432-0556, fax (313)954-2806.

**Ordering:**

See above for prices. We take MC and Visa and will discount all products (except `/rdb`) 20% for internet customers.

**Entry last modified:**

11 May 1994.

### B.2.9 Mark Horton Linux Documentation Hardcopy Service

**Distributor:**

Mark Horton Associates, mah@ka4ybr.atl.ga.us.

**Description:**

The Linux Hardcopy Service provides printed, punched, and bound copies of the various Linux LDP manuals, FAQs, HOWTOs and other related publications. The goal is to provide both new and experienced Linux users with laser printed, high quality documentation. This is particularly useful to new users without access to ftp or the facilities required to print .dvi format, TeX, or PostScript files.

**Availability:**

Mark Horton Associates; P.O. Box 747; Decatur, GA US; 30031. Phone: 1.404.371.0291, e-mail: mah@ka4ybr.atl.ga.us.

**Ordering:**

(Please e-mail mah@ka4ybr.atl.ga.us for complete info, only prices are given here.)

1. Linux Installation and Getting Started, 150 pages, $20.00
2. Linux Network Administrators' Guide, 250 pages, $30.00
3. Linux Kernel Hackers' Guide, 120 pages, $20.00
4. Das LinuXHandBuch, 250 pages, $30.00
5. LILO Technical Overview and User's Guide, 35 pages, $10.00
6. FAQs and HOWTOS, 250 pages, $30.00
7. Shells, shells, shells (man pages), 100 pages, $15.00
8. Any other documentation you wish printed... make a request, I'll print a copy, look it over, and provide a price... if it's of general interest I'll offer additional copies also. (Somehow I feel like I just committed to ending up with a LOT of printed documentation on my shelves!)

I can't take credit cards (you wouldn't believe what the bank wants to process those things!) Personal checks, money orders, cash are all ok. For very large orders from businesses and educational sites I guess I could take purchase orders. Please add $2.00 per manual for shipping (ups ground - add an additional $10.00 for ups blue label). Special overnight shipping can be arranged upon request. Call for quantity discount pricing.

$1.00 per manual sale goes to the Free Software Foundation. $1.00 per manual sale goes to Linus and the LDP's virtual beer fund.

Please make checks payable to Mark Horton Associates, address given above.

**Miscellaneous:**

Custom t-shirts available on request—send e-mail.

**Entry last modified:**

15 January 1994

### B.2.10 Sequoia International Motif Development Package

**Distributor:**

Sequoia International, Inc., 600 West Hillsboro Blvd, Suite 300, Deerfield Beach, FL 33441, Tel: (305) 480-6118, FAX: (305) 480-6198, `info@seq.com`

**Description:**

Sequoia International, Inc. has a complete Motif 1.2.3 Runtime and Development package called SWiM 1.2.3 available for $149.95. In addition to providing *shared* library versions of `libXm` and `libMrm`, the following is included in each package: The Window Manager (`mwm`), Shared Libraries (`libXm`, `libMrm`), Static Libraries (`libXm`, `libMrm`, `libUil`), UIL Compiler, Header and Include Files, Complete On-Line Manual Pages, Source Code to OSF/Motif Demo Programs, Complete OSF/Motif Users Guide.

**Requirements:**

Linux 0.99pl13 or higher, `libc` 4.4.4, XFree 2.0, 12M Free Disk, 8-12M RAM Suggested.

**Ordering:**

USA: Sequoia International, Inc. (305-480-6118), `info@seq.com`. Japan: Fortune Co., Ltd (03-5481-8974). England: Lasermoon Ltd. (+44-0-329-826444). Australia: Space Age Import-Export Proprietary (61-7-266-3418).

**Entry last modified:**

24 March 1994.

### B.2.11 SSC Linux Documentation Project Manuals

**Distributor:**

SSC, Inc., `sales@ssc.com`.

**Availability:**

SSC has printed the *Linux Installation and Getting Started* manual, Version 2.1 to make it available for those who do not have the capability to print it themself and to support our customers who buy Linux (Yggdrasil) from us. It is printed double-sided, perfect bound, with a cover. SSC also intends to make comb bound versions of the other LDP manuals available.

**Ordering:**

*Linux Installation and Getting Started*, Version 2.1 is available for $12.95 plus shipping ($3 in the U.S.). We can accept credit card orders (Visa, MasterCard or AmEx). Orders can be phoned in (206-FOR-UNIX/206-527-3385), FAXed (206-527-2806) or mailed to SSC, P.O. Box 55549, Seattle, WA 98155.

**Miscellaneous:**

SSC also publishes a series of reference cards on Unix and Unix-related programs such as Emacs, VI, Korn Shell, C language, etc. SSC also sells the Yggdrasil, Trans-Ameritech and

Morse Linux distributions, Free Software Foundation books and a complete Linux package consisting of *Linux Instllation and Getting Started*, a printed copy of the Linux HowTos, 4 SSC Pocket References and a 1-year subscription to Linux Journal for $88.95. Call or e-mail `sales@ssc.com` for a free catalog.

**Entry last modified:**

26 June 94.

### B.2.12 SW Technology Linux Systems

**Distributor:**

SW Technology

**Description:**

SW Technology has been selling Linux workstations locally with high customer satisfaction. Our installation of Linux follows the style of the Slackware distribution, with system specific kernel image and configuration files, to ensure optimal performance. The installation is a fairly complete distribution of available Linux utilities, including GCC, X, Interviews, Xview, Tcl/Tk, Emacs, TeX/LaTex, Groff, etc.

We custom configure systems: our clients will get the hardware components and software configuration per their specification.

**Availability:**

For upto date prices/info, please

```
email/finger      swt@netcom.com
anonymous ftp     netcom8.netcom.com:/pub/swt/info
phone             (214) 907-0871
mail              SW Technology
                  251 West Renner Suite 229
                  Richardson, TX 75080
```

**Entry last modified:**

15 Jan 94.

### B.2.13 Takelap Systems Ltd.

**Distributor:**

Takelap Systems Ltd., `info@ddrive.demon.co.uk`.

**Description:**

The SLS 1.04 distribution on diskettes. 25 3.5" or 30 5.25" diskettes including 0.99.13 kernel, X11R5, TeX, doc (WYSIWYG), GNU s/w development tools and more.

The SLS 1.04 Linux Distribution on CDROM: 0.99.13 kernel, X11R5, TeX, Andrew, GNU s/w development tools. May be installed and optionally run from CDROM mounted remotely. Many installation and operational options.

The Yggdrasil LGX Fall 93 Linux distribution on CDROM: 0.99.13 kernel, X11R5, TeX, Andrew 5.1, Postgres 4.1, GNU s/w development tools.

**Availability:**

Takelap Systems Ltd., The Reddings, Court Robin Lane, Llangwm, Usk, Gwent, United Kingdom NP5 1ET. tel: +44 (0)291 650357, fax: +44 (0)291 650500, email: `info@ddrive.demon.co.uk`.

**Ordering:**

SLS on Diskettes, price ukp42.00 +ukp1.50 p&p + VAT. SLS CD-ROM, ukp66.00 +ukp1.50 p&p + VAT. Yggdrasil LGX CD-ROM, ukp40.00 +ukp1.50 p&p + VAT. Visa and Mastercard accepted.

**Miscellaneous:**

Free catalogue of CDROMs and books (mostly UNIX related) on request.

**Entry last modified:**

31 Oct 93.

### B.2.14 Trans-Ameritech Linux plus BSD CD-ROM

**Distributor:**

Trans-Ameritech corporation.

**Description:**

CD-ROM based on the Slackware distribution of Linux with all the sources plus full uncompressed filesystem plus NetBSD source and binary distribution. The current release is "Spring 94". The two previous releases cover Linux from 0.99 p.9 (on the SLS release) to 0.99 p.14 and have FreeBSD and the original 386BSD.

- The installation is highly automated by the Slackware scripts fine tuned to this CDROM but leaves a lot of room for customization.
- In addition to standard device drivers in Linux kernel, BIOS-less aha1522 SCSI is supported (it covers Sound Blaster 16 SCSI too).
- To minimize the possibility of hardware conflicts many extra kernels are provided for different configurations. They are usable for installation and normal use.
- Many on-line documents are provided for quick reference, including the Linux Documentation Project files in source, dvi and ps formats.
- A lot of applications are included:
  - The C/C++ compiler GNU GCC 2.5.8,

  - GNU and international versions of the `ispell` spell-checker.
  - The communications apps: `term` 1.1.4, `minicom`, Seyon (X-Windows based).
  - Editors: `elvis` (`vi` clone), `joe`, `jove`
  - PostScript clone `ghostscript` 2.6.1,
  - Network package with news and email:
  - TCP/IP (net2debugged), UUCP, SLIP, CSLIP
  - Object oriented GNU Smalltalk 1.1.1, and the Smalltalk Interface to X. (STIX)
  - TCL/Tk (Powerful scripting language with Motif-like X interface)
  - SPICE for electric engineering
  - Several window managers - `openwin`, `twm`, `gwm`, `fvwm`.
  - Easy X-Windows configuration with many real-life examples.
  - Many X applications
  - Interviews libraries, include files, and the `doc` word processor and `idraw` drawing program.
  - Typesetting: TeX, LaTeX, `xdvi`, `dvips`, Metafont, `groff`
  - Ingress and Postgress databases.
  - Multimedia: mpeg video and sound applications. Mosaic 2.2. `xgopher.1.3.2`, `tracker`, `adagio04`, `speak-1.0`.
  - Gif pictures and sounds in various formats.
  - Andrew multimedia word processor with hyperlinks.
  - FlexFax send and receive fax on either class 1 or class 2 fax-modems.
  - A lot more.

- To help the first time Linux users many documentation files are provided that are readable from DOS even before installing Linux.
- All the sources are available on the CDROM. The most often needed sources are uncompressed and can be used directly from CDROM.
- An uncompressed Linux filesystem is available for reference and disk space conservation. You can run programs directly from CDROM! There is a large `info` directory for on-line reference and many manpages.
- For hacker's reference an uncompressed FreeBSD source tree is provided.

**Availability and Ordering:**

You can order by e-mail, by phone (408)727-3883 or fax (408)727-3882. (Email: `Roman@Trans-Ameritech.com`)

If you prefer to send a cheque, our address is:

```
Trans-Ameritech Enterprises, Inc.
2342A Walsh Ave
Santa Clara, CA 95051
USA
```

If you order with a credit card (VISA, MC, American Express) please indicate the card number, expiration date and your mailing address.

The order will be processed and the CD shipped the same day.

The price for a single CD-ROM is $30 if you are an internet user and found the info on the net (you must have an e-mail address). Shipping and handling in US is $5. Overseas is $8. COD is available in the US only for $4.50.

California residents please add sales tax.

Annual subscriptions (4 releases) are available for $80 plus S&H. (note: there are 4 shipments in a subscription) Example subscription in US is: $80 + $5 x 4 = $100 Subscription in Europe/Japan etc. is: $80 + $8 x 4 = $112

**Miscellaneous:**

We answer technical questions about our distribution by e-mail sent to: `roman@trans-ameritech.com` within 24 hours! Trans-Ameritech is a well established company with efficient organization to guarantee on-time printing and shipping of this product. If you have a 3.5 inch boot floppy and have ftp access, please look on `sunsite.unc.edu` in `/pub/Linux/distributions/TransAmer` for a new boot floppy image with support for many CDROM drives.

**Entry last modified:**

19 April 1994.

### B.2.15 Unifix Custom Linux CD-ROM Mastering

**Distributor:**

Unifix Software GmbH, Braunschweig, Germany

**Description:**

We use our own (Linux based) premastering system to make custom CDs which include the customer's programs in addition to our Linux distribution. This enables our customers to sell their Unix based applications together with operating system tested and ready to run. Our CD recorder makes it possible to create prototypes and very small series at interesting prices.

**Availablility:**

Ask us for more information or prices:

```
Telephone       +49 (0)531 515161
Fax             +49 (0)531 515162
Mail            Unifix Software GmbH
                Postfach 4918
                D-38039 Braunschweig
                Germany
```

### B.2.16 UPython SLS and Slackware Diskette Labels

**Distributor:**

UPython Computer and Network Services

**Description:**

Labels for Softlanding and slackware disks

**Availability:**

The labels that we print for you are available in several formats at `sunsite.unc.edu:/pub/linux/distributions/SLSlabels`.

**Ordering:**

For order information, send mail to `DGray@uh.edu`. Cost is $6.50 per set and domestic shipping in included. Overseas orders must send payment in US funds and add $1 for shipping. Texas residents add sales tax (6

**Entry last modified:**

11 Nov 1993.

### B.2.17 Wizvax Communications

**Distributor:**

Richard Shetron (`multics@acm.rpi.edu`, `multics@wizvax.wizvax.com`) Stephanie Gilgut (`stephie@acm.rpi.edu`, `stephie@wizvax.wizvax.com`)

**Description:**

We sell modem and terminal cables for multi-port serial boards (mainly the Boca Research BB2016, BB1008, BB1004 and the IOAT66). We also sell multi-port serial boards. We can supply other products and services, please ask. We are looking into writting drives for one or more of the intelligent serial boards (probably COMTROL first and perhaps others).

**Availability:**

```
email:  orders@wizvax.wizvax.com  (orders only, please)
        catalog@wizvax.wizvax.com  (automatic response robot)
        multics@acm.rpi.edu or multics@wizvax.wizvax.com
        stephie@acm.rpi.edu or stephie@wizvax.wizvax.com

        phone:  (518) 271-6005 (US) 9am-9pm M-sa.
        Fax:    available soon
        Snailmail:
                Wizvax Communications
                1508 Tibbits Ave.
                Troy, NY 12180 USA
```

**Ordering:**

Send for a catalog (see addresses above). Send orders to address's listed above. Payment can be personal/company check, US Postal Money Order, Money Order, or Bank check. Orders will not be sent until payment clears. Inquire about PO's.

**Miscellaneous:**

`wizvax.wizvax.com` does a nightly uucp mail exchange. Email may bounce till 05/20/94 as the name servers are being setup.

# Appendix C

# FTP Tutorial and Site List

FTP ("File Transfer Protocol") is the set of programs that are used for transferring files between systems on the Internet. Most UNIX, VMS, and MS-DOS systems on the Internet have a program called `ftp` which you use to transfer these files, and if you have Internet access, the best way to download the Linux software is by using `ftp`. This appendix covers basic `ftp` usage—of course, there are many more functions and uses of `ftp` than are given here.

At the end of this appendix there is a listing of FTP sites where Linux software can be found. Also, if you don't have direct Internet access but are able to exchange electronic mail with the Internet, information on using the `ftpmail` service is included below.

If you're using an MS-DOS, UNIX, or VMS system to download files from the Internet, then `ftp` is a command-driven program. However, there are other implementations of `ftp` out there, such as the Macintosh version (called `Fetch`) with a nice menu-driven interface, which is quite self-explanatory. Even if you're not using the command-driven version of `ftp`, the information given here should help.

`ftp` can be used to both upload (send) or download (receive) files from other Internet sites. In most situations, you're going to be downloading software. On the Internet there are a large number of publicly-available **FTP archive sites**, machines which allow anyone to `ftp` to them and download free software. One such archive site is `sunsite.unc.edu`, which has a lot of Sun Microsystems software, and acts as one of the main Linux sites. In addition, FTP archive sites **mirror** software to each other—that is, software uploaded to one site will be automatically copied over to a number of other sites. So don't be surprised if you see the exact same files on many different archive sites.

## C.1 Starting `ftp`

Note that in the example "screens" printed below I'm only showing the most important information, and what you see may differ. Also, commands in *italics* represent commands that you type; everything else is screen output.

To start `ftp` and connect to a site, simply use the command

`ftp` ⟨*hostname*⟩

where ⟨*hostname*⟩ is the name of the site you are connecting to. For example, to connect to the mythical site `shoop.vpizza.com` we can use the command

```
ftp shoop.vpizza.com
```

## C.2 Logging In

When `ftp` starts up we should see something like

```
Connected to shoop.vpizza.com.
220 Shoop.vpizza.com FTPD ready at 15 Dec 1992 08:20:42 EDT
Name (shoop.vpizza.com:mdw):
```

Here, `ftp` is asking us to give the username that we want to login as on `shoop.vpizza.com`. The default here is `mdw`, which is my username on the system I'm using FTP from. Since I don't have an account on `shoop.vpizza.com` I can't login as myself. Instead, to access publicly-available software on an FTP site you login as `anonymous`, and give your Internet e-mail address (if you have one) as the password. So, we would type

```
Name (shoop.vpizza.com:mdw):  anonymous
331-Guest login ok, send e-mail address as password.
Password:  mdw@sunsite.unc.edu
230- Welcome to shoop.vpizza.com.
230- Virtual Pizza Delivery[tm]:  Download pizza in 30 cycles or less
230- or you get it FREE!
ftp>
```

Of course, you should give your e-mail address, instead of mine, and it won't echo to the screen as you're typing it (since it's technically a "password"). `ftp` should allow us to login and we'll be ready to download software.

## C.3 Poking Around

Okay, we're in. `ftp>` is our prompt, and the `ftp` program is waiting for commands. There are a few basic commands you need to know about. First, the commands

`ls` ⟨*file*⟩

and

`dir` ⟨*file*⟩

both give file listings (where ⟨*file*⟩ is an optional argument specifying a particular filename to list). The difference is that `ls` usually gives a short listing and `dir` gives a longer listing (that is, with more information on the sizes of the files, dates of modification, and so on).

The command

`cd` ⟨*directory*⟩

will move to the given directory (just like the `cd` command on UNIX or MS-DOS systems). You can use the command

`cdup`

to change to the parent directory[1].

The command

`help` ⟨*command*⟩

will give help on the given `ftp` ⟨*command*⟩ (such as `ls` or `cd`). If no command is specified, `ftp` will list all of the available commands.

If we type `dir` at this point we'll see an initial directory listing of where we are.

```
ftp> dir
200 PORT command successful.
150 Opening ASCII mode data connection for /bin/ls.
total 1337


dr-xr-xr-x  2 root     wheel         512 Aug 13 13:55 bin
drwxr-xr-x  2 root     wheel         512 Aug 13 13:58 dev
drwxr-xr-x  2 root     wheel         512 Jan 25 17:35 etc
drwxr-xr-x 19 root     wheel        1024 Jan 27 21:39 pub
drwxrwx-wx  4 root     ftp-admi     1024 Feb  6 22:10 uploads
drwxr-xr-x  3 root     wheel         512 Mar 11  1992 usr

226 Transfer complete.
921 bytes received in 0.24 seconds (3.7 Kbytes/s)
ftp>
```

Each of these entries is a directory, not an individual file which we can download (specified by the `d` in the first column of the listing). On most FTP archive sites, the publicly available software is under the directory `/pub`, so let's go there.

[1] The directory above the current one.

```
ftp> cd pub
ftp> dir
200 PORT command successful.
150 ASCII data connection for /bin/ls (128.84.181.1,4525) (0 bytes).
total 846

-rw-r--r--   1 root     staff        1433 Jul 12  1988 README
-r--r--r--   1 3807     staff       15586 May 13  1991 US-DOMAIN.TXT.2
-rw-r--r--   1 539      staff       52664 Feb 20  1991 altenergy.avail
-r--r--r--   1 65534    65534       56456 Dec 17  1990 ataxx.tar.Z
-rw-r--r--   1 root     other     2013041 Jul  3  1991 gesyps.tar.Z
-rw-r--r--   1 432      staff       41831 Jan 30  1989 gnexe.arc
-rw-rw-rw-   1 615      staff       50315 Apr 16  1992 linpack.tar.Z
-r--r--r--   1 root     wheel       12168 Dec 25  1990 localtime.o
-rw-r--r--   1 root     staff        7035 Aug 27  1986 manualslist.tblms
drwxr-xr-x   2 2195     staff         512 Mar 10 00:48 mdw
-rw-r--r--   1 root     staff        5593 Jul 19  1988 t.out.h

226 ASCII Transfer complete.
2443 bytes received in 0.35 seconds (6.8 Kbytes/s)
ftp>
```

Here we can see a number of (interesting?) files, one of which is called `README`, which we should download (most FTP sites have a `README` file in the `/pub` directory).

## C.4 Downloading files

Before downloading files, there are a few things that you need to take care of.

- **Turn on hash mark printing.** *Hash marks* are printed to the screen as files are being transferred; they let you know how far along the transfer is, and that your connection hasn't hung up (so you don't sit for 20 minutes, thinking that you're still downloading a file). In general, a hash mark appears as a pound sign (`#`), and one is printed for every 1024 or 8192 bytes transferred, depending on your system.

  To turn on hash mark printing, give the command `hash`.

  ```
  ftp> hash
  Hash mark printing on (8192 bytes/hash mark).
  ftp>
  ```

- **Determine the type of file which you are downloading.** As far as FTP is concerned, files come in two flavors: *binary* and *text*. Most of the files which you'll be downloading are binary files: that is, programs, compressed files, archive files, and so on. However, many files (such as `README`s and so on) are text files.

Why does the file type matter? Only because on some systems (such as MS-DOS systems), certain characters in a text file, such as carriage returns, need to be converted so that the file will be readable. While transferring in binary mode, no conversion is done—the file is simply transferred byte after byte.

The commands `bin` and `ascii` set the transfer mode to binary and text, respectively. *When in doubt, always use binary mode to transfer files.* If you try to transfer a binary file in text mode, you'll corrupt the file and it will be unusable. (This is one of the most common mistakes made when using FTP.) However, you can use text mode for plain text files (whose filenames often end in `.txt`).

For our example, we're downloading the file `README`, which is most likely a text file, so we use the command

```
ftp> ascii
200 Type set to A.
ftp>
```

- **Set your local directory.** Your *local directory* is the directory on your system where you want the downloaded files to end up. Whereas the `cd` command changes the remote directory (on the remote machine which you're FTPing to), the `lcd` command changes the local directory.

  For example, to set the local directory to `/home/db/mdw/tmp`, use the command

```
ftp> lcd /home/db/mdw/tmp
Local directory now /home/db/mdw/tmp
ftp>
```

Now you're ready to actually download the file. The command

`get` ⟨*remote-name*⟩ ⟨*local-name*⟩

is used for this, where ⟨*remote-name*⟩ is the name of the file on the remote machine, and ⟨*local-name*⟩ is the name that you wish to give the file on your local machine. The ⟨*local-name*⟩ argument is optional; by default, the local filename is the same as the remote one. However, if for example you're downloading the file `README`, and you already have a `README` in your local directory, you'll want to give a different ⟨*local-filename*⟩ so that the first one isn't overwritten.

For our example, to download the file `README`, we simply use

```
ftp> get README
200 PORT command successful.
150 ASCII data connection for README (128.84.181.1,4527) (1433 bytes).
#
226 ASCII Transfer complete.
local:  README remote:  README
1493 bytes received in 0.03 seconds (49 Kbytes/s)
ftp>
```

## C.5 Quitting FTP

To end your FTP session, simply use the command

```
quit
```

The command

```
close
```

can be used to close the connection with the current remote FTP site; the `open` command can then be used to start a session with another site (without quitting the FTP program altogether).

```
ftp> close
221 Goodbye.
ftp> quit
```

## C.6 Using `ftpmail`

`ftpmail` is a service which allows you to obtain files from FTP archive sites via Internet electronic mail. If you don't have direct Internet access, but are able to send mail to the Internet (from a service such as CompuServe, for example), `ftpmail` is a good way to get files from FTP archive sites. Unfortunately, `ftpmail` can be slow, especially when sending large jobs. Before attempting to download large amounts of software using `ftpmail`, be sure that your mail spool will be able to handle the incoming traffic. Many systems keep quotas on incoming electronic mail, and may delete your account if your mail exceeds this quota. Just use common sense.

`sunsite.unc.edu`, one of the major Linux FTP archive sites, is home to an `ftpmail` server. To use this service, send electronic mail to

```
ftpmail@sunsite.unc.edu
```

with a message body containing only the word:

```
help
```

This will send you back a list of `ftpmail` commands and a brief tutorial on using the system.

For example, to get a listing of Linux files found on `sunsite.unc.edu`, send mail to the above address containing the text

```
open sunsite.unc.edu
cd /pub/Linux
dir
quit
```

You may use the `ftpmail` service to connect to any FTP archive site; you are not limited to `sunsite.unc.edu`. The next section lists a number of Linux FTP archives.

## C.7 Linux FTP Site List

Table C.1 is a listing of the most well-known FTP archive sites which carry the Linux software. Keep in mind that many other sites mirror these, and more than likely you'll run into Linux on a number of sites not on this list.

| Site name | IP Address | Directory |
|---|---|---|
| tsx-11.mit.edu | 18.172.1.2 | /pub/linux |
| sunsite.unc.edu | 152.2.22.81 | /pub/Linux |
| nic.funet.fi | 128.214.6.100 | /pub/OS/Linux |
| ftp.mcc.ac.uk | 130.88.200.7 | /pub/linux |
| fgb1.fgb.mw.tu-muenchen.de | 129.187.200.1 | /pub/linux |
| ftp.informatik.tu-muenchen.de | 131.159.0.110 | /pub/Linux |
| ftp.dfv.rwth-aachen.de | 137.226.4.105 | /pub/linux |
| ftp.informatik.rwth-aachen.de | 137.226.112.172 | /pub/Linux |
| ftp.ibp.fr | 132.227.60.2 | /pub/linux |
| kirk.bu.oz.au | 131.244.1.1 | /pub/OS/Linux |
| ftp.uu.net | 137.39.1.9 | /systems/unix/linux |
| wuarchive.wustl.edu | 128.252.135.4 | /systems/linux |
| ftp.win.tue.nl | 131.155.70.100 | /pub/linux |
| ftp.stack.urc.tue.nl | 131.155.2.71 | /pub/linux |
| ftp.ibr.cs.tu-bs.de | 134.169.34.15 | /pub/os/linux |
| ftp.denet.dk | 129.142.6.74 | /pub/OS/linux |

Table C.1: Linux FTP Sites

`tsx-11.mit.edu`, `sunsite.unc.edu`, and `nic.funet.fi` are the "home sites" for the Linux software, where most of the new software is uploaded. Most of the other sites on the list mirror some combination of these three. To reduce network traffic, choose a site that is geographically closest to you.

# Appendix D

# Linux BBS List

Printed here is a list of bulletin board systems (BBS) which carry Linux software. Zane Healy (`healyzh@holonet.net`) maintains this list. If you know of or run a BBS which provides Linux software which isn't on this list, you should get in touch with him.

The Linux community is no longer an Internet-only society. In fact, it is now estimated that the majority of Linux users don't have Internet access. Therefore, it is especially important that BBSs continue to provide and support Linux to users worldwide.

## D.1 United States

**Citrus Grove Public Access**, 916-381-5822. ZyXEL 16.8/14.4 Sacramento, CA. Internet: `citrus.sac.ca.us`
**Higher Powered BBS**, 408-737-7040. ? CA. RIME ->HIGHER
**hip-hop**, 408-773-0768. 19.2k Sunnyvale, CA. USENET access
**hip-hop**, 408-773-0768. 38.4k Sunnyvale, CA.
**Unix Online**, 707-765-4631. 9600 Petaluma, CA. USENET access
**The Outer Rim**, 805-252-6342. Santa Clarita, CA.
**Programmer's Exchange**, 818-444-3507. El Monte, CA. Fidonet
**Programmer's Exchange**, 818-579-9711. El Monte, CA.
**Micro Oasis**, 510-895-5985. 14.4k San Leandro, CA.
**Test Engineering**, 916-928-0504. Sacramento, CA.
**Slut Club**, 813-975-2603. USR/DS 16.8k HST/14.4K Tampa, FL. Fidonet 1:377/42
**Lost City Atlantis**, 904-727-9334. 14.4k Jacksonville, FL. FidoNet
**Aquired Knowledge**, 305-720-3669. 14.4k v.32bis Ft. Lauderdale, FL. Internet, UUCP
**The Computer Mechanic**, 813-544-9345. 14.4k v.32bis St. Petersburg, FL. Fidonet, Sailnet, MXBBSnet
**AVSync**, 404-320-6202. Atlanta, GA.
**Information Overload**, 404-471-1549. 19.2k ZyXEL Atlanta, GA. Fidonet 1:133/308
**Atlanta Radio Club**, 404-850-0546. 9600 Atlanta, GA.

**Rebel BBS**, 208-887-3937. 9600 Boise, ID.
**Rocky Mountain HUB**, 208-232-3405. 38.4k Pocatello, ID. Fionet, SLNet, CinemaNet
**EchoMania**, 618-233-1659. 14.4k HST Belleville, IL. Fidonet 1:2250/1, f'req LINUX
**UNIX USER**, 708-879-8633. 14.4k Batavia, IL. USENET, Internet mail
**PBS BBS**, 309-663-7675. 2400 Bloomington, IL.
**Third World**, 217-356-9512. 9600 v.32 IL.
**Digital Underground**, 812-941-9427. 14.4k v.32bis IN. USENET
**The OA Southern Star**, 504-885-5928. New Orleans, LA. Fidonet 1:396/1
**Channel One**, 617-354-8873. Boston, MA. RIME ->CHANNEL
**VWIS Linux Support BBS**, 508-793-1570. 9600 Worcester, MA.
**WayStar BBS**, 508-481-7147. 14.4k V.32bis USR/HST Marlborough, MA. Fidonet 1:333/14
**WayStar BBS**, 508-481-7293. 14.4k V.32bis USR/HST Marlborough, MA. Fidonet 1:333/15
**WayStar BBS**, 508-480-8371. 9600 V.32bis or 14.4k USR/HST Marlborough, MA. Fidonet 1:333/16
**Programmer's Center**, 301-596-1180. 9600 Columbia, MD. RIME
**Brodmann's Place**, 301-843-5732. 14.4k Waldorf, MD. RIME ->BRODMANN, Fidonet
**Main Frame**, 301-654-2554. 9600 Gaithersburg, MD. RIME ->MAINFRAME
**1 Zero Cybernet BBS**, 301-589-4064. MD.
**WaterDeep BBS**, 410-614-2190. 9600 v.32 Baltimore, MD.
**Harbor Heights BBS**, 207-663-0391. 14.4k Boothbay Harbor, ME.
**Part-Time BBS**, 612-544-5552. 14.4k v.32bis Plymouth, MN.
**The Sole Survivor**, 314-846-2702. 14.4k v.32bis St. Louis, MO. WWIVnet, WWIVlink, etc
**MAC's Place**, 919-891-1111. 16.8k, DS modem Dunn, NC. RIME ->MAC
**Digital Designs**, 919-423-4216. 14.4k, 2400 Hope Mills, NC.
**Flite Line**, 402-421-2434. Lincoln, NE. RIME ->FLITE, DS modem
**Legend**, 402-438-2433. Lincoln, NE. DS modem
**MegaByte Mansion**, 402-551-8681. 14.4 V,32bis Omaha, NE.
**Mycroft QNX**, 201-858-3429. 14.4k NJ.
**Steve Leon's**, 201-886-8041. 14.4k Cliffside Park, NJ.
**Dwight-Englewood BBS**, 201-569-3543. 9600 v.42 Englewood, NJ. USENET
**The Mothership Cnection**, 908-940-1012. 38.4k Franklin Park, NJ.
**The Laboratory**, 212-927-4980. 16.8k HST, 14.4k v.32bis NY. FidoNet 1:278/707
**Valhalla**, 516-321-6819. 14.4k HST v.32 Babylon, NY. Fidonet (1:107/255), UseNet (`die.linet.org`)
**Intermittent Connection**, 503-344-9838. 14.4k HST v.32bis Eugene, OR. 1:152/35
**Horizon Systems**, 216-899-1086. USR v.32 Westlake, OH.
**Horizon Systems**, 216-899-1293. 2400 Westlake, OH.
**Centre Programmers Unit**, 814-353-0566. 14.4k V.32bis/HST Bellefonte, PA.
**Allentown Technical**, 215-432-5699. 9600 v.32/v.42bis Allentown, PA. WWIVNet 2578
**Tactical-Operations**, 814-861-7637. 14.4k V32bis/V42bis State College, PA. Fidonet 1:129/226, `tac_ops.UUCP`
**North Shore BBS**, 713-251-9757. Houston, TX.
**The Annex**, 512-575-1188. 9600 HST TX. Fidonet 1:3802/217
**The Annex**, 512-575-0667. 2400 TX. Fidonet 1:3802/216

**Walt Fairs**, 713-947-9866. Houston, TX. FidoNet 1:106/18
**CyberVille**, 817-249-6261. 9600 TX. FidoNet 1:130/78
**splat-ooh**, 512-578-2720. 14.4k Victoria, TX.
**splat-ooh**, 512-578-5436. 14.4k Victoria, TX.
**alaree**, 512-575-5554. 14.4k Victoria, TX.
**Ronin BBS**, 214-938-2840. 14.4 HST/DS Waxahachie (Dallas), TX. RIME, Intelec, Smartnet, etc.
**VTBBS**, 703-231-7498. Blacksburg, VA.
**MBT**, 703-953-0640. Blacksburg, VA.
**NOVA**, 703-323-3321. 9600 Annandale, VA. Fidonet 1:109/305
**Rem-Jem**, 703-503-9410. 9600 Fairfax, VA.
**Enlightend**, 703-370-9528. 14.4k Alexandria, VA. Fidonet 1:109/615
**My UnKnown BBS**, 703-690-0669. 14.4k V.32bis VA. Fidonet 1:109/370
**Georgia Peach BBS**, 804-727-0399. 14.4k Newport News, VA.
**S'Qually Holler**, 206-235-0270. 14.4k USR D/S Renton, WA. FidoNet: 1:343/34, `squally.halcyon.com`, UUCP
**Top Hat BBS**, 206-244-9661. 14.4k WA. Fidonet 1:343/40
**victrola.sea.wa.us**, 206-838-7456. 19.2k Federal Way, WA. USENET

## D.2 Outside of the United States

**Galaktische Archive**, 0043-2228303804. 16.8 ZYX Wien, Austria. Fidonet 2:310/77 (19:00-7:00)
**Linux-Support-Oz**, +61-2-418-8750. v.32bis 14.4k Sydney, NSW, Austrailia. Internet/Usenet, E-Mail/News
**500cc Formula 1 BBS**, +61-2-550-4317. V.32bis Sydney, NSW, Australia.
**Magic BBS**, 403-569-2882. 14.4k HST/Telebit/MNP Calgary, AB, Canada. Internet/Usenet
**Logical Solutions**, 299-9900 through 9911. 2400 AB, Canada.
**Logical Solutions**, 299-9912, 299-9913. 14.4k Canada.
**Logical Solutions**, 299-9914 through 9917. 16.8k v.32bis Canada.
**V.A.L.I.S.**, 403-478-1281. 14.4k v.32bis Edmonton, AB, Canada. USENET
**The Windsor Download**, (519)-973-9330. v32bis 14.4 ON, Canada.
**r-node**, 416-249-5366. 2400 Toronto, ON, Canada. USENET
**Synapse**, 819-246-2344. 819-561-5268 Gatineau, QC, Canada. RIME->SYNAPSE
**Radio Free Nyongwa**, 514-524-0829. v.32bis ZyXEL Montreal, QC, Canada. USENET, Fidonet
**DataComm1**, +49.531.132-16. 14.4 HST Braunschweig, NDS, Germany. Fido 2:240/550, LinuxNet
**DataComm2**, +49.531.132-17. 14.4 HST Braunschweig, NDS, Germany. Fido 2:240/551, LinuxNet
**Linux Server /Braukmann**, +49.441.592-963. 16.8 ZYX Oldenburg, NDS, Germany. Fido 2:241/2012, LinuxNet
**MM's Spielebox**, +49.5323.3515. 14.4 ZYX Clausthal-Zfd., NDS, Germany. Fido 2:241/3420
**MM's Spielebox**, +49.5323.3516. 16.8 ZYX Clausthal-Zfd., NDS, Germany. Fido 2:241/3421
**MM's Spielebox**, +49.5323.3540. 9600 Clausthal-Zfd., NDS, Germany. Fido 2:241/3422

**Bit-Company / J. Bartz**, +49.5323.2539. 16.8 ZYX MO Clausthal-Zfd., NDS, Germany. Fido 2:241/3430

**Fractal Zone BBS /Maass**, +49.721.863-066. 16.8 ZYX Karlsruhe, BW, Germany. Fido 2:241/7462

**Hipposoft /M. Junius**, +49.241.875-090. 14.4 HST Aachen, NRW, Germany. Fido 2:242/6, 4:30-7,8-23:30

**UB-HOFF /A. Hoffmann**, +49.203.584-155. 19.2 ZYX+ Duisburg, Germany. Fido 2:242/37

**FORMEL-Box**, +49.4191.2846. 16.8 ZYX Kaltenkirchen, SHL, Germany. Fido 2:242/329, LinuxNet (6:00-20:00)

**BOX/2**, +49.89.601-96-77. 16.8 ZYX Muenchen, BAY, Germany. Fido 2:246/147, info magic: LINUX (22-24,0:30-2,5-8)

**Die Box Passau 2+1**, +49.851.555-96. 14.4 V32b Passau, BAY, Germany. Fido 2:246/200 (8:00-3:30)

**Die Box Passau Line 1**, +49.851.753-789. 16.8 ZYX Passau, BAY, Germany. Fido 2:246/2000 (8:00-3:30)

**Die Box Passau Line 3**, +49.851.732-73. 14.4 HST Passau, BAY, Germany. Fido 2:246/202 (5:00-3:30)

**Die Box Passau ISDN**, +49.851.950-464. 38.4/64k V.110/X.75 Passau, BAY, Germany. Fido 2:246/201 (8:00-24:00,1:00-3:30)

**Public Domain Kiste**, +49.30.686-62-50. 16.8 ZYX BLN, Germany. Fido 2:2403/17

**CS-Port / C. Schmidt**, +49.30.491-34-18. 19.2 Z19 Berlin, BLN, Germany. Fido 2:2403/13

**BigBrother / R. Gmelch**, +49.30.335-63-28. 16.8 Z16 Berlin, BLN, Germany. Fido 2:2403/36.4 (16-23:00)

**CRYSTAL BBS**, +49.7152.240-86. 14.4 HST Leonberg, BW, Germany. Fido 2:2407/3, LinuxNet

**Echoblaster BBS #1**, +49.7142.213-92. HST/V32b Bietigheim, BW, Germany. Fido 2:2407/4, LinuxNet (7-19,23-01h

**Echoblaster BBS #2**, +49.7142.212-35. V32b Bietigheim, BW, Germany. Fido 2:2407/40, LinuxNet (20h-6h)

**LinuxServer / P. Berger**, +49.711.756-275. 16.8 HST Stuttgart, BW, Germany. Fido 2:2407/34, LinuxNet (8:3-17:5,19-2)

**Rising Sun BBS**, +49.7147.3845. 16.8 ZYX Sachsenheim, BW, Germany. Fido 2:2407/41, LinuxNet (5:30-2:30)

**bakunin.north.de**, +49.421.870-532. 14.4 D 2800 Bremen, HB, Germany. `kraehe@bakunin.north.de`

**oytix.north.de**, +49.421.396-57-62. ZYX HB, Germany. `mike@oytix.north.de`, login as `gast`

**Fiffis Inn BBS**, +49-89-5701353. 14.4-19.2 Munich, Germany. FidoNet 2:246/69,Internet,USENET,LinuxNet

**The Field of Inverse Chaos**, +358 0 506 1836. 14.4k v32bis/HST Helsinki, Finland. USENET; ichaos.nullnet.fi

**Modula BBS**, +33-1 4043 0124. HST 14.4 v.32bis Paris, France.

**Modula BBS**, +33-1 4530 1248. HST 14.4 V.32bis Paris, France.

**STDIN BBS**, +33-72375139. v.32bis Lyon, Laurent Cas, France. FidoNet 2:323/8

**Le Lien**, +33-72089879. HST 14.4/V32bis Lyon, Pascal Valette, France. FidoNet 2:323/5

**Basil**, +33-1-44670844. v.32bis Paris, Laurent Chemla, France.

**Cafard Naum**, +33-51701632. v.32bis Nantes, Yann Dupont, France.
**DUBBS**, +353-1-6789000. 19.2 ZyXEL Dublin, Ireland. Fidonet 2:263/167
**Galway Online**, +353-91-27454. 14.4k v32b Galway, Ireland. RIME, `@iol.ie`
**Nemesis' Dungeon**, +353-1-324755 or 326900. 14.4k v32bis Dublin, Ireland. Fidonet 2:263/150
**nonsolosoftware**, +39 51 6140772. v.32bis, v.42bis Italy. Fidonet 2:332/407
**nonsolosoftware**, +39 51 432904. ZyXEL 19.2k Italy. Fidonet 2:332/417
**Advanced Systems**, +64-9-379-3365. ZyXEL 16.8k Auckland, New Zealand. Singet, INTLnet, Fidonet
**Thunderball Cave**, 472567018. Norway. RIME ->CAVE
**DownTown BBS Lelystad**, +31-3200-48852. 14.4k Lelystad, Netherlands. Fido 2:512/155, UUCP
**MUGNET Intl-Cistron BBS**, +31-1720-42580. 38.4k Alphen a/d Rijn, Netherlands. UUCP
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