

(HTML version in README.html)

Debian GNU/Linux 2.2 r0 "Potato" - Official i386 Binary-1 CD

CONTENTS:

- * Intro
- * About This CD
- * Installing
- * Upgrading
- * Last-Minute Notes
- * Using CDs with Dselect and Apt
- * Non-free/Non-US
- * CD Manufacturers
- * More Information

Welcome to the exciting world of
Debian GNU/Linux!

Intro

=====

This is one of the CD-ROMs of the Debian GNU/Linux distribution. Debian is a very extensive collection of software. But it is more. It is a complete Operating System (OS) for your computer. And it is free (as in "freedom").

An operating system is the set of basic programs and utilities that make your computer run. At the core of an operating system is the kernel. The kernel is the most fundamental program on the computer, does all the basic housekeeping and lets you start other programs. Debian is kernel independent. It currently uses the Linux kernel but work is in progress to provide Debian for other kernels, using the Hurd.

Debian is available for various kinds of computers ("architectures"), like "IBM-compatible" PCs (i386), Compaq's Alpha, Motorola's 680x0 (m68k), Sun's Sparc, Motorola/IBM's PowerPC, and (Strong)ARM processors. Check the ports page (<http://www.debian.org/ports>) for more information.

Read more at

<http://www.debian.org/intro/about>

About This CD

=====

This CD-ROM is labeled

Debian GNU/Linux 2.2 r0 "Potato" - Official i386 Binary-1

which means that this CD is number 1 of totally 3 CDs containing programs ("binaries") for `i386' computers.

The programs on the Binary CDs are ordered by popularity. The Binary-1 CD contains the most popular programs and the installation tools; it is possible to install and run Debian with only the Binary-1 CD. The other CDs, up to Binary-3, contain mostly special-interest programs.

Installing

=====

Because Debian is a complete Operating System, the installation procedure may seem a bit unusual. You can install Debian GNU/Linux either next to your current OS, or as only OS on your computer.

Read the Installation Manual, on this CD at

`/install/doc/install.en.html` (English version).

Translations of the Installation Manual, and plain-text and PDF versions, are also available in the

`/install/doc`

directory, along with various other documents.

Programs and other files that are needed for the installation can be found on this CD under

`/dists/potato/main/disks-i386`

For the impatient ones: you can start the installation program easily by booting off this CD-ROM. Note that not all (esp. older) systems

support this.

You can also examine the

`/install`

directory; you might be able to start the installation system directly from there.

Upgrading

=====

If you are already running an older version of the Debian GNU/Linux Operating System, you may want to upgrade to version 2.2.

Upgrading procedures, and things needed for the upgrade, can be found on this CD in the

`/upgrade`

directory.

Last-Minute Notes

=====

* Last-minutes notes for this CD may be available on <http://cdimage.debian.org/lastmin.html>

Using CDs with Dselect and Apt

=====

After installing or upgrading, Debian's packaging system can use CD-ROMs, local collections, or networked servers (FTP, HTTP) to automatically install software from (.deb packages). This is done preferably with the ``apt'` and ``dselect'` programs. If you do not already know how to setup these, here is a brief explanation.

First of all, comment out every line of `/etc/apt/sources.list` by placing a hash sign (``#'`) in front of it (if it isn't already there).

Then you need to add new "deb" lines describing the location(s) where apt will get the new packages from. You can add "deb" lines for a packages mirror on a local harddisk, and/or FTP/HTTP mirrors, and/or

(a set of) CD-ROMs. `Apt' will consider all packages that can be found via any "deb" line, and use the one with the highest version number, giving priority to the first mentioned lines. (So, in case of multiple mirror locations, you'd typically first name a local harddisk, then CD-ROMs, and finally FTP/HTTP mirrors.)

* For a local archive (or a single mounted CD-ROM), that for example has these directories,

```

/var/ftp/debian/dists/potato/main/binary-i386/...
/var/ftp/debian/dists/potato/contrib/binary-i386/...
-----
add:  \      \      |      \
      ----- |      \
deb file:/var/ftp/debian potato main contrib

```

As shown, the `dists' is added implicitly, and the 3rd,... arguments are used to expand the path into multiple directories.

If you have a complete mirror that also has non-free and non-US, you typically have to add lines like these:

```

deb file:/var/ftp/debian potato main contrib non-free
deb file:/var/ftp/debian-non-US potato/non-US main contrib
non-free

```

If you don't have such a structure, other description lines are possible, see the sources.list manpage.

* FTP or HTTP packages mirror addresses can be found on this CD in README.mirrors.txt, or on <http://www.debian.org/distrib/ftplist>, look at the "Full list of mirrors".

If the mirror has these directories:

```

ftp://some-server/debian/dists/potato/main/binary-i386/...
ftp://some-server/debian/dists/potato/contrib/binary-i386/...
-----
add:  \      /      |      |
      ----- |      |
deb ftp://some-server/debian potato main contrib

```

As shown, the `dists' is added implicitly, and the 3rd,... arguments are used to expand the path into multiple directories.

If you use a complete mirror that also has non-free and non-US, you typically have to add lines like these:

```
deb ftp://some-server/debian potato main contrib non-free
deb ftp://some-server/debian-non-US potato/non-US main contrib
non-free
```

If the mirror doesn't have such a structure, other description lines are possible, see the `sources.list` manpage.

* In case of upgrading from a set of CD-ROMs (also possible for a single, unmounted CD-ROM), do not add any lines to `sources.list` manually.

Instead, first make sure there is a line in `/etc/fstab` that connects the `/cdrom` mount point with your CD-ROM drive (the exact `/cdrom` mount point is "required" for apt). For example, if `/dev/hdc` is your CD-ROM drive, `/etc/fstab` should contain a line

```
/dev/hdc /cdrom auto defaults,noauto,ro 0 0
```

To test this, insert a CD-ROM and give commands

```
mount /cdrom
ls -alF /cdrom (this should show the CD-ROM's root
directory)
umount /cdrom
```

Then, use the command

```
apt-cdrom add
```

to add the data of each individual CD-ROM to apt's internal database. This command will ask for one CD-ROM per run, and mount/unmount the CD-ROM automatically. You should repeat this command for all 2.2 'Binary' CD-ROMs you have.

The final step of the preparation is to update apt's internal database with the command

```
apt-get update
```

Once this is done, you can install packages from the commandline using `apt-get`. For example, if you want to install the packages ``commprog'` and ``maxgame'`, you can give the command

apt-get install commprog maxgame

Note that you don't have to enter the complete path, or the `.deb` extension. `Apt` will figure this out itself.

`Dselect` is also able to use `apt` to fetch the packages. To set up `dselect`, choose `[A]ccess` in the main menu, and then select `apt`. The `sources.list` file should be okay already, so don't let the program make a new one. Then, after an `[U]pdate`, the configuration is ready. You can just keep using `[S]elect` and `[I]ninstall` to install packages.

See `dselect`'s online help screens for more information (use the `?` key).

Non-free and Non-US

=====

The package sections `non-free` and `non-US` contain packages that either have a restrictive license, or can't be exported from the US (like `pgp` or `ssh`). It may well be that this CD does not contain (all of) these packages. You can get them from our FTP/HTTP mirror sites.

`Non-free` packages are on our "regular" mirrors, listed in `README.mirrors.html` on this CD, or on <http://www.debian.org/distrib/ftplist> ("Full list of mirrors").

`Non-US` packages are on special mirrors outside the US, listed in `README.non-US` on this CD, or on <http://www.debian.org/misc/README.non-US>.

Note that you are allowed to import non-US packages into the US.

CD Manufacturers

=====

You are completely free to manufacture and (re-)distribute CD-ROMs of the Debian GNU/Linux Operating System, like this one. There is no charge from us (but of course donations are always welcome).

For all needed information, and contact addresses, please refer to

<http://cdimage.debian.org>

More Information

There is much more information present on this CD. Besides the already mentioned installation and upgrading procedures, this is the most interesting:

- * /doc/FAQ Debian FAQ
- * /doc/constitution.txt The Debian Constitution
- * /doc/debian-manifesto The Debian Manifesto
- * /doc/social-contract.txt Debian's Social Contract
- * /doc/bug-reporting.txt Bug reporting instructions

Also on the Internet are many resources. To name a few:

- * <http://www.debian.org> The Debian homepage
- * <http://www.debian.org/doc> Debian Documentation
- * <http://www.debian.org/support> Debian User Support
- * <http://www.linuxdoc.org> The Linux Documentation Project
- * <http://www.linux.org> General Linux homepage

See the Debian contact page (<http://www.debian.org/contact>) for information on contacting us.

Last Modified: Sat Aug 12 10:53:29 CEST 2000