



Debian Day Helsinki July 9, 2005

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July 9th is Debian Day, a chance for the general public to learn more about Debian GNU/Linux. Participants will be introduced to the philosophical, and technical aspects of the distribution and shown some of the variety of real world applications for which Debian is used. This flyer contains a schedule of events for Debian Day plus some basic information about the Debian Project including guidance on where to look for additional help.

Debian Day Schedule of Events

09:00-09:15 "Greetings" (15 minutes)

By Martin-Éric Racine, Linux-Aktivaattori PR team, Andreas Schuldei, Debconf5 chief organizer, and Branden Robinson, Debian Project Leader 2005-2006

09:30-10:00 "What is Debian?" (30 minutes)

By Jaldhar H. Vyas. A description of Debians place in the Linux and Free Software world, the people who develop Debian and an overview of the many different activities that are required to create a world-class operating system.

10:15-10:45 "What is Free Software?" (30 minutes)

By Gunnar Wolf. Although the general public are often unaware of the distinctions, there are important conceptual and legal differences between such terms as Open Source, Free, Public domain, and Proprietary software which will be explained in this talk.

11:00-11:30 "Custom Debian distributions and Debian derivatives" (30 minutes)

By Aigars Mahinovs. Debian is not only an important Linux distribution in its own right but the base for other efforts. This talk explains why there are Debian derivatives and gives an overview of some of the most visible offerings e.g. Knoppix, and Ubuntu.

11:45-12:15 "From Pigs to Stripes: A travel through Debian" (30 minutes)

By Juan Jose Amor. A presentation of various studies: Debian growth in terms of code and developers; evolution and distribution of programming languages and the TOP-10 largest packages; effort estimations for several releases.

12:30-13:00 "Debian release processes: a retrospective of Sarge" (30 minutes)

By Andreas Barth. An overview of the Debian release processes, with emphasis on what exactly delayed the Sarge release for so long and what has already been improved to ensure that Etch, the next version, will release more smoothly and quickly.

Lunch Break

14:00-14:45 "Government case: Extremadura county's 70,000 Debian workstations" (45 minutes)

By Dario Rapisardi and Pedro Pérez. This talk is about one of the biggest Debian deployment to date, the schools of Extramadura in Spain.

15:00-15:30 "Helping Debian: getting involved as an

end-user" (30 minutes)

By Alexander Schmehl. Even if you are not a programmer you can help Debian in other ways such as reporting bugs, writing documentation or proofreading it, making a donation, taking part in the package "popularity contest", or just saying "Thanks." This talk will show you how.

15:45-16:15 "Helping Debian: developing software for Debian" (30 minutes)

By Martin-Éric Racine. If you are a software developer, this talk will teach you what you need to know to get your software included in future versions of Debian.

16:30-17:15 "Business case: How Hewlett-Packard benefits from Debian" (45 minutes)

By Bdale Garbee. Businesses can also benefit from using Debian. In this talk you will learn: How to leverage Debian in a business environment. How to interact with the community and your obligations to it.

17:30-18:00 "Debian Project goals for 2005-2006" (30 minutes)

Moderator: Jaldhar H. Vyas. An open Q & A session with key members of the Debian Project such as the Project Leader and Release Manager. This is your chance to ask them questions concerning the goals the project is aiming to reach this year, and especially how they plan to avoid the traditional pitfalls Debian is known.

Each presentation is followed by a 15 minutes break.

Debian Project: History & Aims

The Debian project was started in 1993 by Ian Murdock to create a Linux distribution which was community-based, comprised entirely of free software and technically excellent. The name Debian (pronounced 'deb-ee-an' with stress on the first syllable) is a contraction

of the names of Ian and his wife Debra.

Debian was at one time sponsored by the Free Software Foundation (<http://www.gnu.org>) and still shares many of its aims. As the FSF's GNU project provides much of the core software that makes up Debian, the distribution is referred to as Debian GNU/Linux.

In 1997, the Debian Project decided to formally state their goals in a social contract with the Free Software community. A set of guidelines as to what the project considers to be free software was also issued. The Debian Free Software Guidelines (DFSG) later became the source of the Open Source Definition.

Today, Debian is estimated to be the second or third most popular Linux distribution and the only major non-commercial one. It is committed to supporting the Linux Standard Base (See <http://www.freestandards.org/>) and takes part in other initiatives to enhance the Linux operating system.

The Debian GNU/Linux Social Contract

The Debian Project is an association of individuals who have made common cause to create a free operating system. This is the "social contract" we offer to the free software community.

1. *Debian Will Remain 100% Free Software.* We promise to keep the Debian GNU/Linux Distribution entirely free software. As there are many definitions of free software, we include the guidelines we use to determine if software is "free" below. We will support our users who develop and run non-free software on Debian, but we will never make the system depend on an item of non-free software.

2. *We Will Give Back to the Free Software Community.* When we write new components of the Debian system, we will license them as free software. We will make the

best system we can, so that free software will be widely distributed and used. We will feed back bug-fixes, improvements, user requests, etc to the "upstream" authors of software included in our system.

3. *We Won't Hide Problems.* We will keep our entire bug-report database open for public view at all times. Reports that users file on-line will immediately become visible to others.

4. *Our Priorities are Our Users and Free Software.* We will be guided by the needs of our users and the free-software community. We will place their interests first in our priorities. We will support the needs of our users for operation in many different kinds of computing environment. We won't object to commercial software that is intended to run on Debian systems, and we'll allow others to create value-added distributions containing both Debian and commercial software, without any fee from us. To support these goals, we will provide an integrated system of high-quality, 100% free software, with no legal restrictions that would prevent these kinds of use.

5. *Programs That Don't Meet Our Free-Software Standards.* We acknowledge that some of our users require the use of programs that don't conform to the Debian Free Software Guidelines. We have created "contrib" and "non-free" areas in our FTP archive for this software. The software in these directories is not part of the Debian system, although it has been configured for use with Debian. We encourage CD manufacturers to read the licenses of software packages in these directories and determine if they can distribute that software on their CDs. Thus, although non-free software isn't a part of Debian, we support its use, and we provide infrastructure (such as our bug-tracking system and mailing lists) for non-free software packages.

The Debian Free Software Guidelines

1. *Free Redistribution.* The license of a Debian component may not restrict any party from selling or giving away the software as a component of an aggregate software distribution containing programs from several different sources. The license may not require a royalty or other fee for such sale.

2. *Source Code.* The program must include source code, and must allow distribution in source code as well as compiled form.

3. *Derived Works.* The license must allow modifications and derived works, and must allow them to be distributed under the same terms as the license of the original software.

4. *Integrity of The Author's Source Code.* The license may restrict source-code from being distributed in modified form only if the license allows the distribution of "patch files" with the source code for the purpose of modifying the program at build time. The license must explicitly permit distribution of software built from modified source code. The license may require derived works to carry a different name or version number from the original software. (This is a compromise. The Debian group encourages all authors to not restrict any files, source or binary, from being modified.)

5. *No Discrimination Against Persons or Groups.* The license must not discriminate against any person or group of persons.

6. *No Discrimination Against Fields of Endeavor.* The license must not restrict anyone from making use of the program in a specific field of endeavor. For example, it may not restrict the program from being used in a business, or from being used for genetic research.

7. *Distribution of License.* The rights attached to the program must apply to all to whom the program is re-

distributed without the need for execution of an additional license by those parties.

8. *License Must Not Be Specific to Debian.* The rights attached to the program must not depend on the program's being part of a Debian system. If the program is extracted from Debian and used or distributed without Debian but otherwise within the terms of the program's license, all parties to whom the program is redistributed should have the same rights as those that are granted in conjunction with the Debian system.

9. *License Must Not Contaminate Other Software.* The license must not place restrictions on other software that is distributed along with the licensed software. For example, the license must not insist that all other programs distributed on the same medium must be free software.

10. *Example Licenses.* The "GPL", "BSD", and "Artistic" licenses are examples of licenses that we consider "free"

Debian Distributions & Ports

At any given time, there are actually three Debian distributions—stable, testing, and unstable. Each one is made up of software packages (in a special format that makes them easy to install, uninstall, and upgrade) and their source code. Each distribution has a name, taken from characters in the Pixar animated film *Toy Story* which a former Debian project leader worked on. Publicly released distributions also have a version number, with sub-version numbers (X.Y or X.Y.Z) to indicate updated versions that are not complete new releases. Currently the three distributions are:

Stable: (Sarge or 3.1) This is the version usually found on CDs. It is the most recent officially released Debian distribution and is suitable for production servers and other environments where high reliability is essential. No new code is added to a stable release except

for fixes of security vulnerabilities which are backported from newer versions. While this conservative approach may appear to make stable lag behind other Linux distributions, it ensures that it is as bug-free as possible.

Unstable: (Sid) This is where new development takes place. Although there might be occasional breakage, unstable refers to the fact this distribution is constantly in flux with new packages being added, bugs fixed etc, not to the quality of its software. Developers and other power users tend to use unstable.

Testing: (Etch) This distribution attempts to fall between stable and unstable. When packages in unstable are deemed sufficiently bug-free, they are added to testing. When testing itself is bug-free and any other release goals are met, it becomes the next stable distribution. It is a good choice for desktop users.

Within each distribution, there are three sections:

main: is the official distribution made up entirely of free software packages.

Non-free: is for packages that fail the DFSG

contrib: is for those which are free but depend upon a non-free component.

You can find older Debian distributions at: <http://www.debian.org/distrib/archive>, A listing of third-party packages is available at <http://www.apt-get.org/>

Debian has been ported to many different architectures:

i386: Intel's 80386 and its descendants and clones.

Binaries optimized for Pentiums, AMD's Athlons etc are not provided, but can be created by the user.

m68k: Motorola 68000 chips as used in Sun3, early Apple Macintosh, Atari and Amiga machines.

sparc/sparc64: Systems based on Sun Microsystems' 32 and 64 bit SPARC processors.

alpha: Compaq's (formerly Digital's) Alpha processors.

powerpc: IBM and Motorola PowerPC processors used in IBM servers and newer Apple Macintoshes.

arm: ARM processor used in the Netwinder and many embedded devices.

mips/mipsel: MIPS processors which can big-endian (as used in SGI machines) or little-endian (eg DECStations)

hppa: Hewlett-Packard's PA-RISC architecture.

ia64: Intel's 64-bit Itanium processor.

s390: IBM's S/390 mainframes.

sh: Hitachi Super/H chips as used in the Sega Dreamcast.

Also Debian is branching beyond Linux with ports in progress to the GNU Hurd, FreeBSD, and NetBSD kernels. For more information on each port such as exactly which hardware is supported, see <http://www.debian.org/ports>

Obtaining Debian GNU/Linux

Debian makes its distribution available for free on the Internet for all to use as they wish without licenses or royalties. You can download it as a set of software packages by rsync or anonymous FTP (See <http://www.debian.org/distrib/ftplist> for servers) or as ISO9660 images suitable for burning on to CD-ROMs (see <http://cdimage.debian.org/>) If you don't have Internet connectivity or it is too slow for large downloads, you can get Debian by purchasing a CD set from a third-party vendor. Here is the contact information for two of the bigger ones in the United States. **Note:**the Debian Project does not endorse these nor any other CD vendor.

Cheapbytes: P.O. Box 2714, Lodi, CA, 95241
Fax: (209) 367-8518 Email: sales@cheapbytes.com
URL: <http://www.cheapbytes.com>

LinuxCentral: 22369, Starks Drive, Clinton, MI, 48036
Phone: (586) 783-6700 or (877) LINUXCD
Fax: (586) 783-6775 Email: sales@linuxcentral.com

URL: <http://www.linuxcentral.com>

For a full list of vendors, including overseas ones, see: <http://www.debian.org/CD/vendors/> Many vendors (including those listed above) allow you to make a donation to the Debian Project along with your order.

Getting Help

Email: Most of Debian's business is conducted via public email discussion lists. A full list plus subscription info can be obtained from <http://www.debian.org/MailingLists/> Here are some of the major ones. (Those marked with a * are moderated or otherwise restricted.)

debian-announce*: Important announcements from the Debian Project.

debian-changes*: Notice of new or updated packages in stable

debian-devel-announce*: Announcements from the Debian project of interest to Debian developers.

debian-devel-changes*: Notice of new or updated packages in unstable.

debian-devel: Technical discussion amongst Debian developers.

debian-news*: A weekly roundup of what's going on in the Debian world.

debian-policy: Discussion of Debian policy and proposed amendments to it.

debian-project: discussions concerning the operation of the Debian Project.

debian-security-announce*: Security advisories from the Debian Project.

debian-security: Open discussion of security issues.

debian-user: The main discussion & support list for users.

IRC: Support is available via IRC in channel #debian on the Freenode IRC network. (For a list of servers, see <http://www.freenode.org/>)

The World-Wide Web: Some websites focusing on Debian are Debian Planet (<http://www.debianplanet.org/>) and DebianHelp (<http://www.debianhelp.org/>).

Maintainers: You can contact the maintainer of any Debian package by using our public bug-tracking system at <http://bugs.debian.org/> or by sending email to packagename@packages.debian.org

Commercial Support: See <http://www.debian.org/consultants/> for a list of companies and consultants who provide paid support.

How To Help The Debian Project

Debian is a community project without paid staff. It depends on the help of volunteers and well-wishers to further its aims. There are several ways in which you can support the activities of the project:

Join Us As A Developer: describes the process for becoming a member of our team.

Help With Support And Quality Assurance: You don't have to be a Debian developer to help improve our operating system. See for instructions and a TODO list. Or you can assist users by answering questions on the mailing lists or sharing a copy of Debian with them.

Donations Of Money Or Resources Debian relies on donations of cash, servers, bandwidth etc for its operation. You are under no obligation to contribute but if you would like to do so, a nonprofit organization registered in New York state called Software In The Public Interest Inc. has been set up to accept donations on behalf of the Debian Project. For further details, see or email treasurer@spi-inc.org