



Debian: a community for all, beyond technology

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Community



whoami



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Topics to Discuss

- Foundations of the Debian community
- Organization and structure of the Debian community
- Fiscal and legal support
- Release lifecycle
- Derivatives
- Use cases





Foundations of the Debian Community

- History
- Social contract
- DFSG



UNIX

AT&T Bell Labs



- *In 1969, Ken Thompson and Dennis Ritchie worked on a project derived from Multics, called UNIX.*
- *They rewrote UNIX in a new programming language they created, C.*
- *In 1977, the computer systems research group at Berkeley University published the Berkeley Software Distribution (BSD).*

GNU Manifest / FSF

<https://www.gnu.org/gnu/manifesto.html>

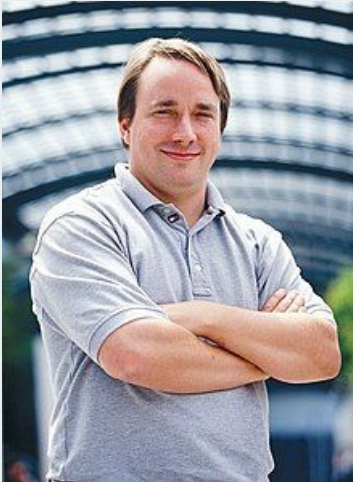


- *In 1983, Richard Stallman wrote the GNU manifesto.*
- *In 1985, he founded the Free Software Foundation.*



Linux

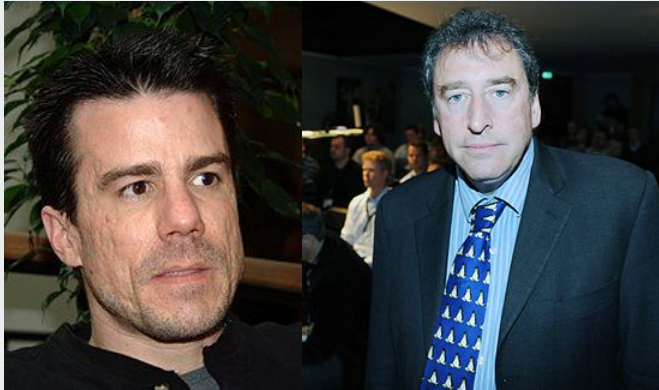
<https://kernel.org/>



- *In 1991, Linus Torvalds released a kernel based on MINIX.*
- *By December 1992, Linux 0.99 was licensed under GNU GPL.*
- *In 1993, GNU integrated applications to work with the Linux kernel.*

Debian GNU/Linux

<https://www.debian.org/>



- *In 1993, Ian Murdock founded the Debian project.*
- *In 1994, Ian wrote the Debian manifesto.*
- *Ian delegated to Bruce Perens the packages that made up the system's core.*
- *Bruce, who worked for Pixar, used Pixar's servers to host Debian's mailing lists and named Debian releases after Toy Story characters.*
- *In 1996, Bruce wrote the Debian Social Contract, later adopted by OSI.*



Debian Social Contract

https://www.debian.org/social_contract.html


1. Debian will remain 100% free.
2. We will contribute to the free software community.
3. We will not hide problems.
4. Our priorities are our users and free software.
5. Works that do not meet our free software standards.



Debian Free Software Guidelines (DFSG)

https://www.debian.org/social_contract.html#guidelines
<https://wiki.debian.org/DFSGLicenses>

1. Free redistribution
2. Source code
3. Derived works
4. Integrity of the author's source code
5. No discrimination against persons or groups
6. No discrimination against fields of endeavor
7. Distribution of the license
8. License must not be specific to Debian
9. License must not contaminate other software
10. Examples of licenses: GPL, BSD, etc.



The Open Source Definition

<https://opensource.org/osd>

The Open Source Definition was originally derived from the Debian Free Software Guidelines (DFSG).





Organization and Structure of the Debian Community

- Organizational Chart
- Teams
- Infrastructure





Organization

<https://www.debian.org/intro/organization.html>
<https://www.debian.org/devel/constitution>

- DPL (Debian Project Leader)
 - Elected by the Debian community.
 - Represents the Debian project externally and oversees the project's work.
- Project secretary
 - Oversees project administration,
 - Calls for developer votes,
 - Ensures constitutional compliance.
- Treasurer
 - Manages the project's finances.



Organization

<https://www.debian.org/intro/organization.html>

- Release Team
 - Oversees new Debian releases.
- Development Teams
 - Develop and maintain different parts of the Debian operating system.
- Work Groups
 - Focus on specific tasks like security or accessibility.



Organization

<https://www.debian.org/intro/organization.html>

- Interest Circles
 - Gather users with common interests, such as Debian Python.
- Debian Members
 - Anyone contributing to the Debian project.
- Collaborators
 - People who help the Debian project unofficially.



Teams

<https://wiki.debian.org/Teams>

Development teams:

- **Bootloader:** Maintains the bootloaders for Debian architectures.
- **Cdteam:** Produces CD/DVD images of Debian.
- **Debian-installer:** Develops the Debian installer.
- **Dpkg:** Maintains the dpkg package and related tools.
- **Ftp-masters:** Manages the Debian FTP archive.
- **Kernel-team:** Maintains the Linux kernel for Debian.
- **Release Team:** Manages the releases of new Debian versions.
- **Security Team:** Handles the security of Debian.
- **Webmasters:** Maintains the Debian website.



Teams

<https://wiki.debian.org/Teams>

Infrastructure Teams:

- **DSA:** Maintains the systems of Debian's infrastructure.
- **Wanna-build/BuildD:** Maintains Debian's build infrastructure.
- **Debian-ports:** Adapts Debian to unofficial architectures.
- **Salsa:** Maintains Debian's source version control infrastructure.



Teams

<https://wiki.debian.org/Teams>

Other Teams:

- **Accessibility:** Promotes accessibility in Debian.
- **Art:** Creates art and graphics for Debian.
- **Legal:** Advises the Debian project on legal matters.
- **Mentors:** Helps new contributors integrate into the Debian project.
- **Packaging:** Handles software packaging for Debian.
- **QA:** Conducts quality assurance tests on Debian software.
- **Women:** Promotes the participation of women in Debian.
- **Debian-edu, Debian-GIS, Debian-Med, Junior, etc.**



Infrastructure

<https://salsa.debian.org/>

<https://buildd.debian.org/>

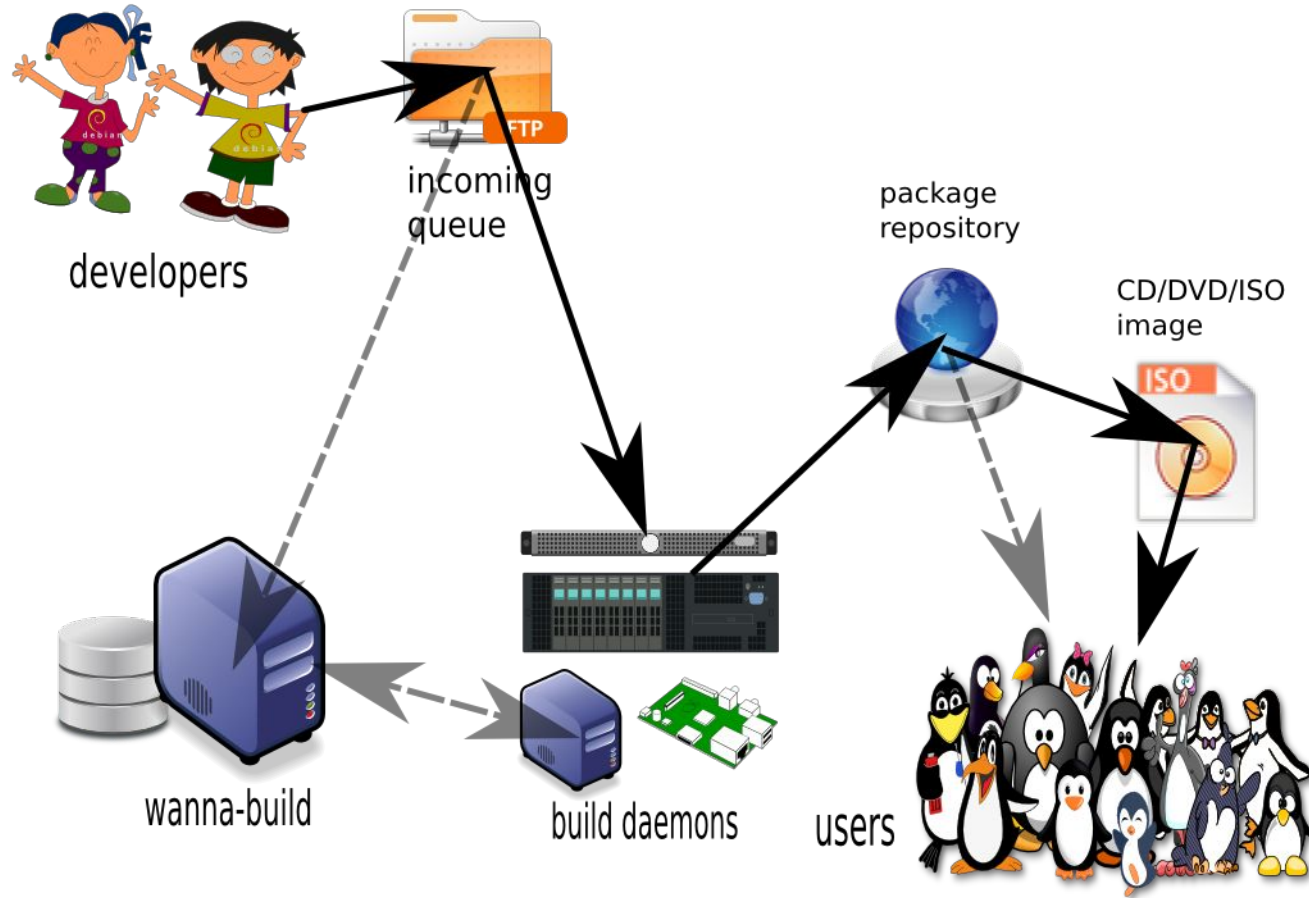
<https://ftp-master.debian.org/>

<https://www.debian.org/mirror/>

<https://get.debian.org/images/>

Development Infrastructure:

- **Salsa:** Code hosting platform for Debian (GitLab).
- **Buildd:** Automatic build system for different Debian architectures.
- **FTP:** Debian's main archive.
- **Mirrors:** Replicas of the Debian FTP archive.
- **CD:** CD/DVD image production.





Infrastructure

<https://lists.debian.org/>

<https://www.debian.org/>

<https://wiki.debian.org/>

<https://wiki.debian.org/IRC>

[https://wiki.debian.org/Promote/SocialNet
working](https://wiki.debian.org/Promote/SocialNetworking)

Communication Infrastructure:

- **Mailing List:** Main communication medium among Debian developers.
- **Web:** Official Debian website.
- **Wiki:** Debian Wiki.
- **IRC:** Debian IRC channel.
- **Social Media:** Debian's presence on social networks.



Infrastructure

<https://tracker.debian.org/>

<https://bugs.debian.org/>

<https://mentors.debian.net/>

Support Infrastructure:

- **Tracker:** Debian task tracking system.
- **Debian-BTS:** Debian technical support system (bug tracking system).
- **Mentors:** Mentoring program for new Debian contributors.



Fiscal and legal support

- Trusted organizations
 - Software in the public interest, Inc
 - Debian France
 - Debian CH





Software in the Public Interest (SPI) is a non-profit corporation registered in the state of New York founded to act as a fiscal sponsor for organizations that develop open source software and hardware. Our mission is to help substantial and significant open source projects by handling their non-technical administrative tasks so that they aren't required to operate their own legal entity.

Services offered to projects can be found [here](#). Projects interested in becoming associated with SPI should read the [Associated Project HOWTO](#). The relationship between SPI and associated projects is explained [here](#).

Incorporation

Software in the Public Interest was incorporated as a non-profit organization on June 16, 1997 in the state of New York.

In 1999, the [Internal Revenue Service](#) of the United States government determined that under section 501 (a) of the Internal Revenue Code SPI qualifies for 501 (c) (3) (non-profit organization) status under section 509 (a) (1) and 170 (b) (1) (A) (vi). This means that all donations made to SPI and its supported projects are tax deductible for donors in the United States.



Debian France

Présentation

L'Association Debian France a pour but le soutien et la promotion du [Projet Debian](#) en France. Pour cela elle participe à de multiples manifestations pour présenter le projet et défendre les valeurs soutenues par ce dernier (cf. le [contrat social](#)).

L'association est reconnue par le projet Debian en tant que *Trusted Organization* depuis 2014. Ainsi, l'association est habilitée à accepter des donations et gérer des fonds pour le projet.

Elle profite également de ces manifestations pour commercialiser des accessoires promotionnels (polos, t-shirts, autocollants, etc.). Les bénéfices sont réinvestis dans des projets liés à Debian, comme par exemple l'organisation de mini-Debconf ou de Bug Squashing parties.

Appel aux bonnes volontés

L'association manque de volontaires pour pouvoir répondre à toutes les sollicitations reçues. La plupart des membres actifs sont déjà contributeurs au projet Debian et ne disposent que de peu de temps pour faire tourner Debian France. C'est pourquoi nous sommes toujours à la recherche de volontaires pour tenir des stands Debian sur tous les événements liés au libre.

[Rejoignez-nous](#) et inscrivez-vous sur la [liste de diffusion](#). N'hésitez pas à envoyer un mail pour vous présenter 😊

debian.ch

debian.ch is the official representation of the [Debian project](#) in Switzerland and in the Principality of Liechtenstein. It is a non-profit association under Swiss law ([Articles of Association](#)).



Extra bonus

- Release Lifecycle
- Debian Derivatives
- Curious Use Cases of Debian



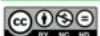
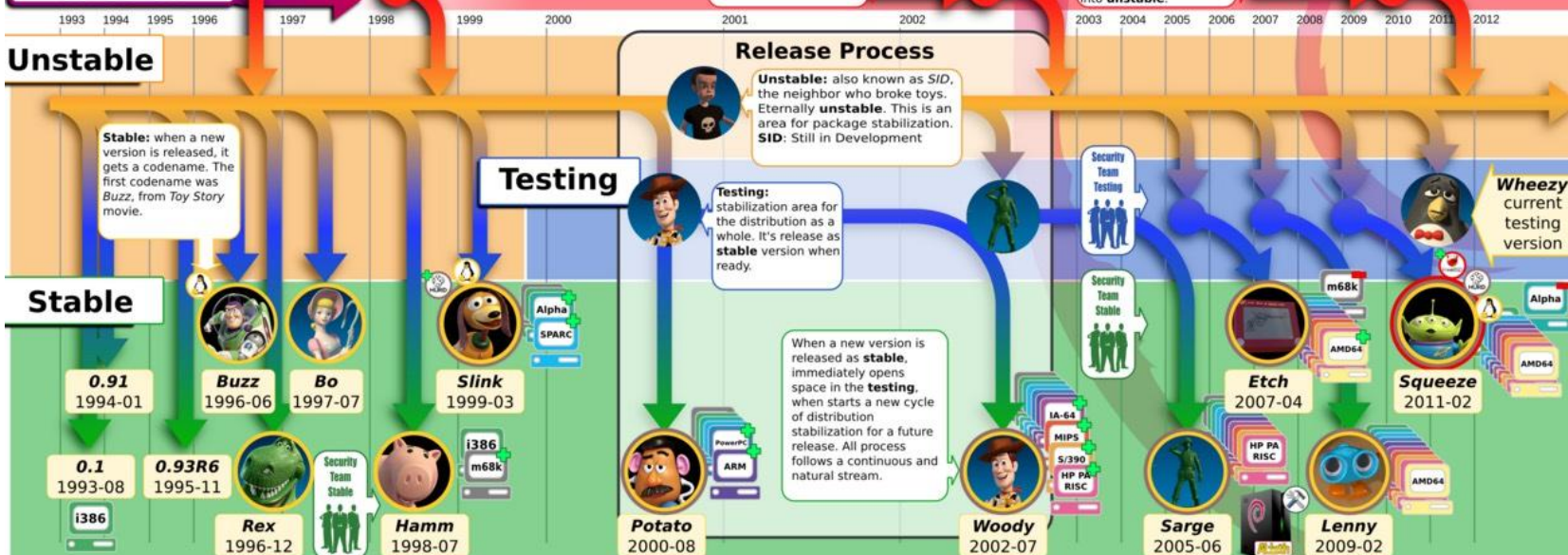
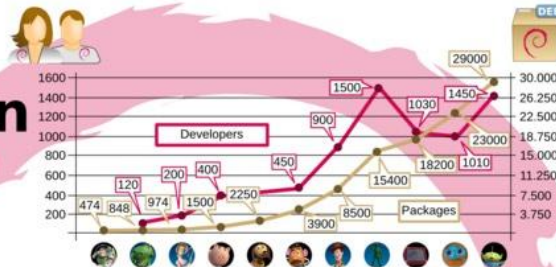
Sources

Last versions always are incorporated in Sid (unstable).



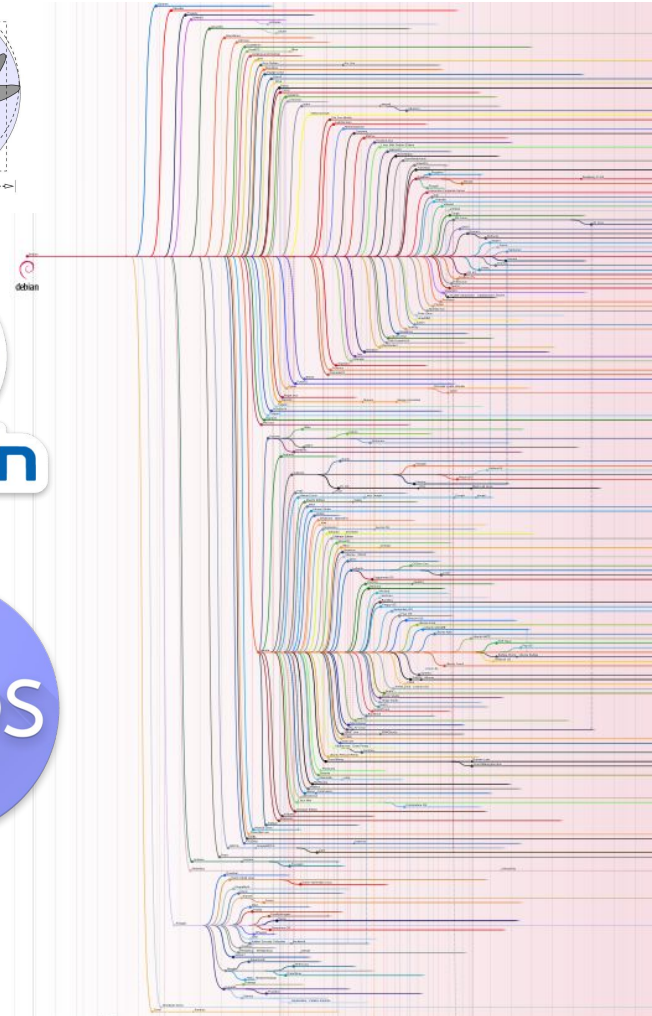
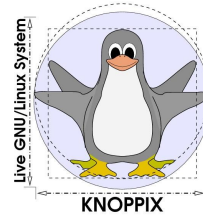
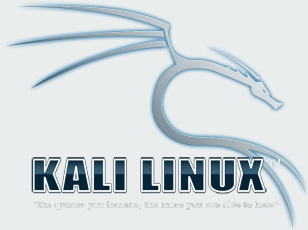
Understanding Debian

The universal operating system



Debian Derivatives

<https://wiki.debian.org/Derivatives/>



Derivatives Census

⚠ Note that the census is currently inactive. If you would like to help revive the project, please contact the [DerivativesFrontDesk](#) about it.

Debian Derivatives Census

The Debian derivatives census is an attempt to gather [detailed information](#) about Debian derivatives that is useful to Debian, for [integration of that information into Debian infrastructure](#) and for the development of relationships between Debian and our derivatives. In addition we will be doing some [QA](#) on the data that you enter into the census.

If you are not involved in the Debian derivative that you would like to see added to the census, please consider sending an [invitation](#) to join the census to a contact point of the derivative you would like to see added to the census.

To add a new derivative to this page, register an account, login and enter the short name of your derivative below, with no spaces. When you click "Add a new derivative", an editor will be loaded containing the [census template](#) (please fill out as much information as you have) and when you save the page, the new page will be created and added to the list below. If you are the maintainer of a census page, you are expected to subscribe to both it and the [census template](#) or subscribe to the [RecentChanges](#) RSS feed so that you are notified when your census page is out of sync with the template and more information needs to be added. When editing your census page, please replace the date at the end with @TIME@ so that the current date is added.

Please use no spaces when entering a name for the page.

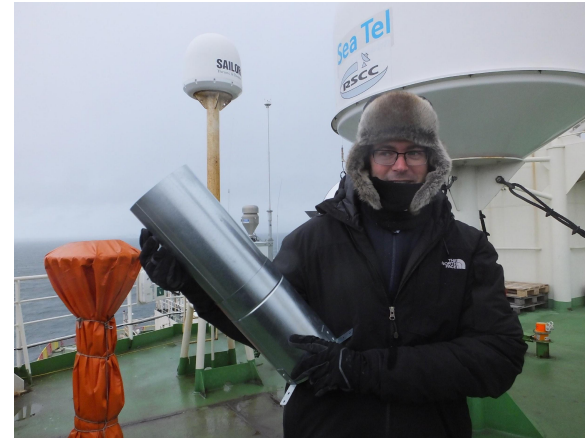
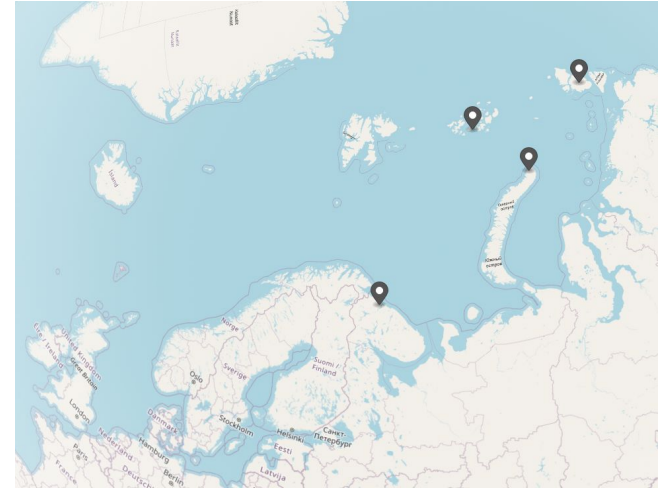
[/AIMS_Desktop](#)
[/Abalar](#)
[/AlienVault-OSSIM](#)
[/Apertis](#)
[/Aptosid](#)
[/ArcheOS](#)
[/ArchivistaBox](#)
[/Armbian](#)
[/AstraLinux](#)
[/Auxtral](#)
[/BCCD](#)
[/BOSSlinux](#)
[/Bayanihan](#)
[/BlackWeb](#)
[/BlankOn](#)
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[/BunsenLabs](#)
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[/CyborgLinux](#)
[/DANOS](#)
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[/Donau](#)
[/DoudouLinux](#)
[/Elive](#)
[/Emdebian](#)
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[/Endless](#)
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[/Pardus](#)
[/ParrotSecurity](#)
[/Parsix](#)
[/Penguin](#)
[/PrimTux](#)
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[/Purism](#)
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[/Quirinux](#)
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[/Rescatux](#)
[/SELKS](#)
[/SPACEflight](#)
[/SalentOS](#)
[/Septon](#)
[/SerbianLinux](#)
[/SolusOS](#)
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[/SparkyLinux](#)
[/SprezzOS](#)
[/SteamOS](#)
[/StormOS](#)
[/Symbiosis](#)
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[/Tanglu](#)
[/ThengOS](#)
[/ToriOS](#)
[/Tucunare](#)
[/TurnKeyLinux](#)
[/Ubuntu](#)
[/UltimediaOS](#)
[/UniventionCorporateServer](#)
[/Vanillux](#)
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[/VoyageLinux](#)
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[/nakeDeb](#)
[/relianoide](#)
[/rtros](#)
[/semplice](#)
[/siduction](#)
[/ttos](#)
[/ubilinux](#)
[/xanadu](#)



Curious Use Cases of Debian

- Debian in the polar science expedition
- Debian in the international spaceship
- Debian providing secure privacy
- Debian in the moon

Using Debian in polar science expeditions: social contract, DFSG, archive.d.o and packages

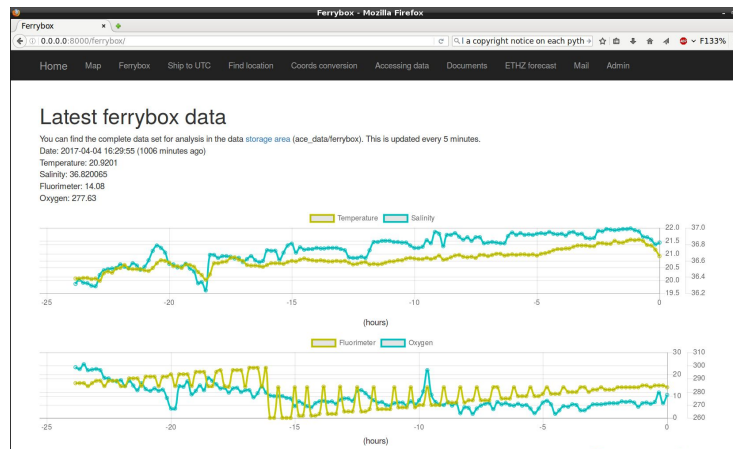


Ferrybox



50K - 60K packages
4K Python modules

```
64 bytes from 8.8.8.8: icmp_seq=1592 ttl=56 time=78547 ms
64 bytes from 8.8.8.8: icmp_seq=1593 ttl=56 time=69756 ms
64 bytes from 8.8.8.8: icmp_seq=1594 ttl=56 time=69370 ms
64 bytes from 8.8.8.8: icmp_seq=1595 ttl=56 time=68521 ms
64 bytes from 8.8.8.8: icmp_seq=1596 ttl=56 time=69007 ms
64 bytes from 8.8.8.8: icmp_seq=1597 ttl=56 time=68109 ms
64 bytes from 8.8.8.8: icmp_seq=1598 ttl=56 time=67739 ms
64 bytes from 8.8.8.8: icmp_seq=1599 ttl=56 time=68211 ms
64 bytes from 8.8.8.8: icmp_seq=1600 ttl=56 time=67524 ms
64 bytes from 8.8.8.8: icmp_seq=1601 ttl=56 time=67081 ms
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64 bytes from 8.8.8.8: icmp_seq=1604 ttl=56 time=67356 ms
64 bytes from 8.8.8.8: icmp_seq=1605 ttl=56 time=66590 ms
64 bytes from 8.8.8.8: icmp_seq=1606 ttl=56 time=67849 ms
```





International Space Station adopts Debian Linux, drops Windows & Red Hat into airlock



Adrian Bridgwater

Published: 13 May 2013
10:05



About This Blog

The latest trends and issues around the use of open source software in the enterprise.

Latest Blog Posts

What to expect from Kubecon
CloudNativeCon Europe 2024

OpenUK details UK open source
'heatmap' & 2024 honours list

It's nothing to do with Windows 8 and the lack of a 'Start' button (or orb) at all.

But [reports from the Linux Foundation](#) confirm that the International Space Station's (ISS) laptop installation is to drop Windows into the airlock in favour of a new deployment of Linux for its machines.

Manager of the Space Operations Computing (SpOC) for NASA Keith Chuvala is on the record saying, "We migrated key functions from Windows to Linux because we needed an operating system that was stable and reliable — one that would give us in-house control. So if we needed to patch, adjust, or adapt, we could."



Laptops on the International Space Station's serve a large number of users in groups known as "constellations"...

Juno Orbital Insertion at Jupiter: Recorded live coverage



49:08 / 1:32:35





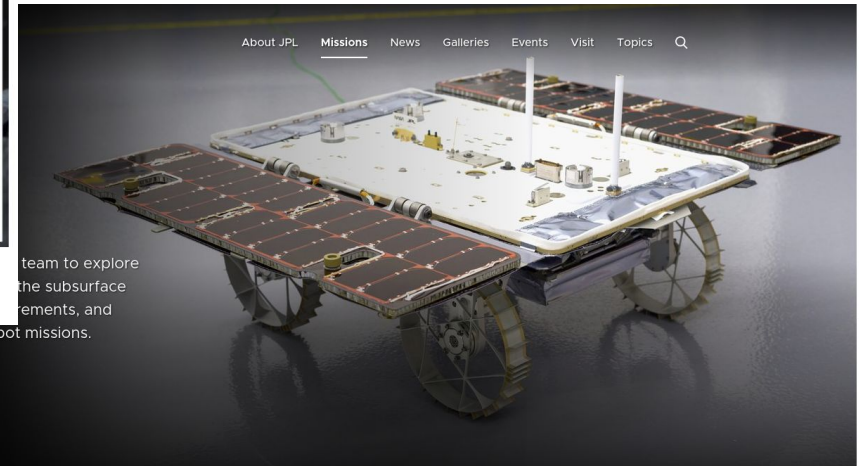
TOR TAILS DEBIAN



Short Bytes: NSA whistleblower Edward Snowden is known to be a long-time advocate of free and open source software. Speaking at an event via video conferencing, he said that transparency of free software convinced him to use TOR, Tails, and Debian, that helped him to expose the secrets of American government.



NASA's CADRE (Cooperative Autonomous Distributed Robotic Exploration) technology demonstration is sending a trio of rovers the size of a carry-on bag to the Moon. The project is designed to show that multiple robots can cooperate and explore together autonomously. Credit: NASA



team to explore the subsurface elements, and showing the potential of multirobot missions.

LAUNCH DATE

2024

TYPE

Rover, Technology Demonstration

TARGET

Earth's Moon

STATUS

Future

Source: <https://ieeexplore.ieee.org/document/10521425>



References

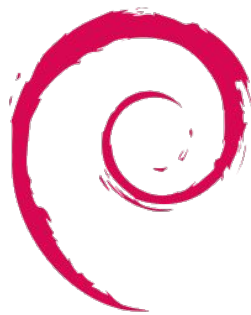
- <https://www.wikiwand.com/en/Debian Free Software Guidelines>
- <https://www.wikiwand.com/es/Directrices de software libre de Debian>
- <https://www.python.org/community/logos/>
- <https://people.debian.org/~bap/dfsg-faq.html>
- <https://www.digitalocean.com/community/conceptual-articles/free-vs-open-source-software>
- <https://www.wikiwand.com/en/All your base are belong to us>





References

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- <https://unix.stackexchange.com/questions/230252/what-is-the-correct-way-to-refer-to-linux-unix-generically>
- <https://github.com/FabioLolix/LinuxTimeline>





Thanks to our sponsors and attendees





Questions

