



# Wikipedia and Debian

- Collaborative project to build a free encyclopedia
  - Free culture movement
  - Est. 2001
  - Primarily volunteer contributors
  - 6.5m articles
- Collaborative project to build a universal operating system
  - Free software movement
  - Est. 1993
  - Mix of volunteers and paid contributors
  - 35,000 packages

# What is a Linux distro?

- An operating system built on the Linux kernel
- Has some kind of app store (“packages”)
- Different distros target different audiences. Some are for desktops or embedded or servers.
- Hundreds of distros, many are forks or derivatives of another distro
- E.g. Fedora, Ubuntu, Mint, Red Hat, Arch

# Do you use Debian?

- Yes! All Wikimedia servers run Debian
- Debian is also a very popular distro for servers, best known for its stable releases
- It's very aligned with the Wikimedia ethos



Powered by  
**MediaWiki**



powered by  
**debian**

# Openness

- Anyone can contribute to Debian through bug reports and patches
- Only uploading packages requires permissions/vetting
- Everything but security issues handled publicly
- Enshrined in Debian Social Contract

# Power structure

- Debian Project Leader elected every year, primarily a coordination and process role
- Project-wide votes (“General Resolutions”) to determine controversial issues
- Each package is maintained by a single developer or designated group

# Power structure

## Officers

- [Leader](#) — <[leader@debian.org](mailto:leader@debian.org)>  
*current* Jonathan Carter
- [Technical Committee](#) — <[debian-ctte@lists.debian.org](mailto:debian-ctte@lists.debian.org)> — [appoir](#)  
*current* Sean Whitton (*chair*)  
*current* Niko Tyni  
*current* Gunnar Wolf  
*current* Simon McVittie  
*current* Elana Hashman  
*current* Christoph Berg  
*current* Helmut Grohne  
*current* Matthew Vernon
- [Secretary](#) — <[secretary@debian.org](mailto:secretary@debian.org)> — [appointment mail](#)  
*current* Kurt Roeckx

## Distribution

- [Development Projects](#) — <[debian-devel@lists.debian.org](mailto:debian-devel@lists.debian.org)>
- [FTP Archives](#) — <[ftpmaster@debian.org](mailto:ftpmaster@debian.org)> — [delegation mail](#)
  - FTP Masters —  
*member* Thorsten Alteholz (delegate)  
*member* Ansgar (delegate)  
*member* Joerg Jaspert (delegate)  
*member* Luke W. Faraone (delegate; they/them)  
*member* Mark Hymers (delegate)
  - FTP Assistants —  
*member* Bastian Blank  
*member* Luca Falavigna  
*member* Paul Tagliamonte  
*member* Scott Kitterman  
*member* Sean Whitton
  - FTP Wizards —  
*member* Mike O'Connor

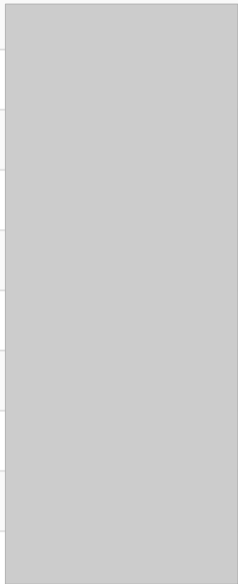

# Ownership

- Maintainer has full control over a package
- Can be overruled by Technical Committee or via project-wide GR
- Yes, people do “own” pages on Wikipedia despite it being forbidden by policy
- Do-ocracy!



# Ownership

Authorship attribution, measured by character count, excluding spaces

Rank	Username	Links	Characters	Percentage
1		<a href="#">Top Edits</a> · <a href="#">Edit Counter</a>	11,530	40%
2		<a href="#">Top Edits</a> · <a href="#">Edit Counter</a>	7,712	26.8%
3		<a href="#">Top Edits</a> · <a href="#">Edit Counter</a>	3,842	13.3%
4		<a href="#">Top Edits</a> · <a href="#">Edit Counter</a>	1,011	3.5%
5		<a href="#">Top Edits</a> · <a href="#">Edit Counter</a>	793	2.8%
6		<a href="#">Top Edits</a> · <a href="#">Edit Counter</a>	679	2.4%
7		<a href="#">Top Edits</a> · <a href="#">Edit Counter</a>	488	1.7%
8		<a href="#">Top Edits</a> · <a href="#">Edit Counter</a>	342	1.2%
9		<a href="#">Top Edits</a> · <a href="#">Edit Counter</a>	275	1%
10		<a href="#">Top Edits</a> · <a href="#">Edit Counter</a>	273	0.9%
 <a href="#">58 others</a>			1,867	6.4%

## general

**source:** [kiwix](#) (main)  
**version:** 2.3.0-1  
**maintainer:** [Kunal Mehta](#) (DMD)  
**arch:** any  
**std-ver:** 4.6.0.1  
**VCS:** [Git](#) ([Browse](#), [QA](#))

## general

**source:** [mediawiki](#) (main)  
**version:** 1:1.35.8-1.1  
**maintainer:** [MediaWiki packaging team](#) (DMD)  
**uploaders:** [Kunal Mehta](#) [DMD] – [Taavi Väinänen](#) [DMD] [DM]  
**arch:** all  
**std-ver:** 4.5.1  
**VCS:** [Git](#) ([Browse](#), [QA](#))

# How does Wikimedia use Debian?

- All servers use Debian
- All containers are based on Debian
- Mostly use packages from Debian, unmodified. For some key packages like PHP or MariaDB, we build our own on [apt.wikimedia.org](https://apt.wikimedia.org).

# Okay, but why?

- Debian releases are supported for 3 years, plus 2 more years of “long-term support”
- Relatively stable, changes don’t suddenly happen underneath you, nor do you fall behind quickly
- Debian main is 100% free software
- Openness allows Wikimedians to ensure their input and needs are appropriately considered

# Debian has a wide reach

- Lots of derivatives, like Ubuntu, Raspbian
- Packages end up there without any extra work

Repository	Packages	Total	Newest	Outdated
Debian Unstable	10	10	6 60.0%	3 30.0%
Devuan Unstable	10	10	6 60.0%	3 30.0%
Debian 12	9	9	5 55.6%	3 33.3%
Kali Linux Rolling	9	9	5 55.6%	3 33.3%
Raspbian Testing	9	9	5 55.6%	3 33.3%
Debian Experimental	4	4	3 75.0%	-
Parrot	16	8	3 37.5%	5 62.5%
Debian 11	8	8	3 37.5%	5 62.5%
Pardus 21	8	8	3 37.5%	5 62.5%
Devuan 4.0	8	8	3 37.5%	5 62.5%
PureOS landing	8	8	3 37.5%	5 62.5%
Raspbian Stable	9	9	3 33.3%	5 55.6%
Ubuntu 20.04	4	4	2 50.0%	2 50.0%
Trisquel 10.0	4	4	2 50.0%	2 50.0%
Ubuntu 22.04	4	4	1 25.0%	2 50.0%
Ubuntu 22.10	6	6	1 16.7%	4 66.7%
Debian 9 Backports	3	3	-	3 100.0%
Debian 10 Backports	3	3	-	3 100.0%
Debian 10	5	5	-	5 100.0%
Pardus 19	5	5	-	5 100.0%

# How do we contribute back?

- Bug reports!

# How do we contribute back?

[Message #5](#) received at submit@bugs.debian.org ([full text](#), [mbox](#), [reply](#)):

**From:** Moritz Muehlenhoff <mmuhlenhoff@wikimedia.org>  
**To:** Debian Bug Tracking System <submit@bugs.debian.org>  
**Subject:** intel-microcode: Missing MDS mitigations for some Intel CPUs  
**Date:** Thu, 16 May 2019 14:47:24 +0200

Package: intel-microcode

Severity: important

I noticed that on some of our servers (using a E5-2470 Sandy Bridge CPU), the MDS mitigations were not picked up and after some digging I found

[https://www.intel.com/content/dam/www/public/us/en/documents/corporate-information/SA00233-microcode-update-guidance\\_05132019.pdf](https://www.intel.com/content/dam/www/public/us/en/documents/corporate-information/SA00233-microcode-update-guidance_05132019.pdf)

which lists all the CPU revisions for which updated microcode is not yet available, but "Planned". It's obviously not actionable on the Debian side, but I thought it's worth tracking nonetheless in the BTS for the benefit of others wondering about missing microcode updates.

Cheers,

Moritz

# How do we contribute back?

[Message #5](#) received at submit@bugs.debian.org ([full text](#), [mbox](#), [reply](#)):

**From:** Giuseppe Lavagetto <glavagetto@wikimedia.org>  
**To:** Debian Bug Tracking System <submit@bugs.debian.org>  
**Subject:** apache2: mod\_proxy\_fcgi erroneously sends response body when issuing a 304  
**Date:** Thu, 16 Jun 2016 17:03:25 +0200

Package: apache2  
Version: 2.4.10-10+deb8u4  
Severity: normal  
Tags: upstream

Dear Maintainer,

When apache communicates with a FastCGI server (like php-fpm) via mod\_proxy\_fastcgi and the response contains a Last-Modified header with no Status header and this results in a 304 Not Modified response (based on the If-Modified-Since header of the HTTP request), apache sends to the client not only the headers, but the body of the response too. This violates rfc2616 section 10.3.5: "The 304 response MUST NOT contain a message-body, and thus is always terminated by the first empty line after the header fields."

Apart from causing issues with some reverse proxies, this also causes apache to log a bogus error:

"AH01070: Error parsing script headers, referer:..."

for every request that results in a 304 response.

This bug was reported upstream in

[https://bz.apache.org/bugzilla/show\\_bug.cgi?id=57198](https://bz.apache.org/bugzilla/show_bug.cgi?id=57198)

and is fixed in 2.4.11, see

[https://svn.apache.org/viewvc/httpd/httpd/branches/2.4.x/modules/proxy/mod\\_proxy\\_fcgi.c?r1=1650677&r2=1650676&pathrev=1650677&view=patch](https://svn.apache.org/viewvc/httpd/httpd/branches/2.4.x/modules/proxy/mod_proxy_fcgi.c?r1=1650677&r2=1650676&pathrev=1650677&view=patch)

It would be useful to have this backported to the current apache2 package in jessie.

Thanks,

Giuseppe

# How do we contribute back?

- Bug reports!
- Pre-release testing



# How do we contribute back?

## ✓ Prepare our base system layer for Debian 11/bullseye

✓ Closed, Resolved

Public

### Description

This task tracks the preparation of our base system services for Debian 11/bullseye. Nothing is released yet, schedule is here:

<https://lists.debian.org/debian-devel-announce/2020/03/msg00002.html>

Further base packages to build/import:

- ✓ debmonitor-client
- ✓ debdeploy-client
- ✓ ferm (patched compared to Debian)
- ✓ python-wmflib
- ✓ prometheus-rsyslog-exporter

# How do we contribute back?

- Bug reports!
- Pre-release testing
- [mirrors.wikimedia.org](https://mirrors.wikimedia.org)










# How do we contribute back?

- Bug reports!
- Pre-release testing
- [mirrors.wikimedia.org](https://mirrors.wikimedia.org)
- Package maintainership

# How do we contribute back?

Kartik Mistry <[kartik@debian.org](mailto:kartik@debian.org)> — Bugs: [open](#) - [RC](#) - [all](#) - [submitted](#) - [WNPP](#) -  — Reports: [\[...\]](#)

*main* (112)

Source Package	Bugs		Version		
	All	RC	stable	testing	unstable
<a href="#">apertium</a> <sup>[U]</sup>	<a href="#">1</a> 	-	3.7.1-1	3.8.3-1	
<a href="#">apertium-afr-nld</a> <sup>[U]</sup>	- 	-	0.3.0-2	0.3.0-3	
<a href="#">apertium-all-dev</a> <sup>[U]</sup>	- 	-	-	3.8.1-2	
<a href="#">apertium-anaphora</a> <sup>[U]</sup>	- 	-	1.0.2-1	1.1.1-1	
<a href="#">apertium-apy</a> <sup>[U]</sup>	- 	-	0.11.7-2	0.11.7-2.1	
<a href="#">apertium-arg-cat</a> <sup>[U]</sup>	- 	-	0.2.0-2	0.2.0-3	
<a href="#">apertium-bel-rus</a> <sup>[U]</sup>	- 	-	0.2.1-1	0.2.1-2	
<a href="#">apertium-br-fr</a> <sup>[U]</sup>	- 	-	0.5.1-1		
<a href="#">apertium-cat-ita</a> <sup>[U]</sup>	- 	-	0.2.1-3	0.2.2-1	

# How to contribute to Debian?

- Run Debian! Especially w/ MediaWiki, you can find bugs before it hits production
- Lurk in IRC channels, provide user support
- Report bugs, write documentation, translate software, and more!
- <https://www.debian.org/intro/help>

# Thanks!

- Email: [legoktm@debian.org](mailto:legoktm@debian.org)
- IRC: legoktm on irc.{libera.chat,oftc.net}
- Matrix: @legoktm:matrix.org
- Fediverse: @legoktm@wikis.world