

Michael
Meskes

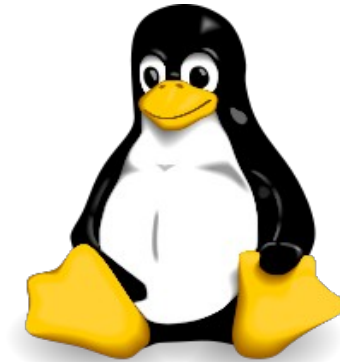


debian

The Best Linux Distribution

Michael Meskes

- Free Software since 1993
- Linux since 1994
- Debian GNU/Linux since 1995
- PostgreSQL since 1998




Michael Meskes

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People

Account Holders



Michael Meskes

876 Commits

Open Hub member since October 2010










in ... **C** Make shell script and 8 other languages

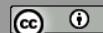
to ... **D** Postgre... **T** Tor... and 2 other projects

9 KUDOS


Unclaimed Committer ID's

Michael Meskes [Claim These Contributions](#)

 173 commits Debian	 1 commit Linux DiskQuota	 1 commit chenguo's co...	 675 commits Postgres-XC	 636 commits postgres-old...	 41 commits tora-oracle
 617 commits postgresql-s...	 673 commits Postgres-XL	 1 commit Revelation			

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Michael Meskes

- 1992 – 1996 Ph.D.
- 1996 – 1998 Project Manager
- 1998 – 2000 Branch Manager
- Since 2000 President

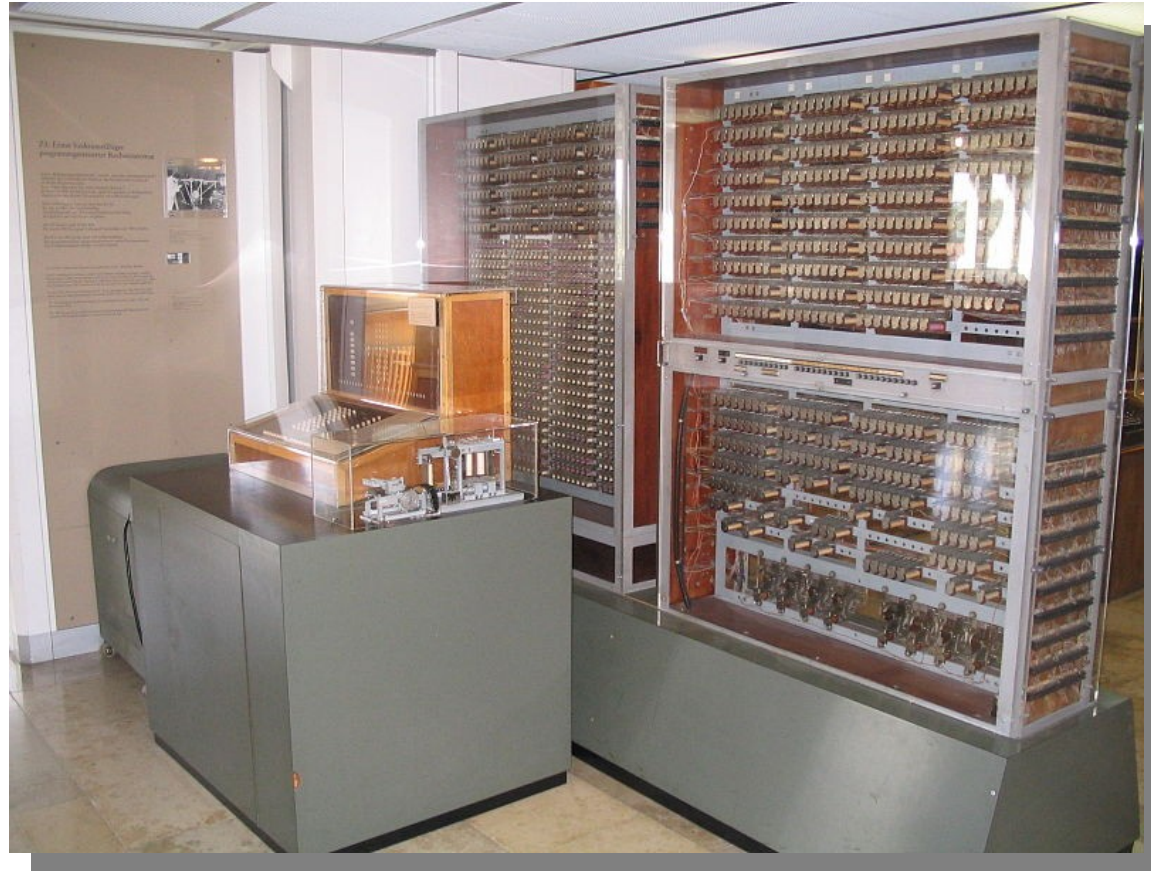
FOSS
Specialists

Complete
Stack
Supported

All Major
Open Source
Projects

- Over 60 employees on staff
- Europe, North America, Asia
- Open Source Software Support and Services
 - Support: break/fix, advanced administration, monitoring
 - Consulting: selection, migration, implementation, integration, upgrade, performance, high availability, virtualization
 - Development: enhancement, bug-fix, integration, backport, packaging
 - Operating, Hosting, Training

The Beginning



© Venusianer@German Wikipedia

The Beginning 2nd Try



©Gisle Hannemyr



©linuxmag.com

Going

Back

In

Time

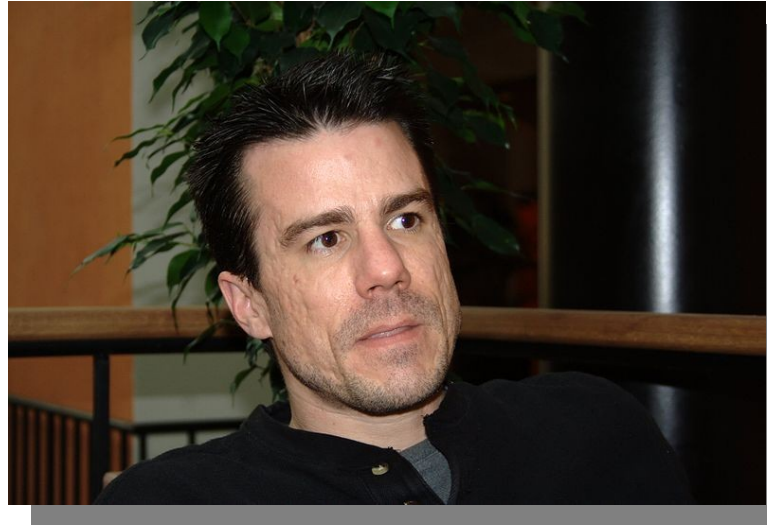
**Nothing is stronger than an idea whose
time has come.**

On résiste à l'invasion des armées; on ne résiste pas à l'invasion des idées.

One withstands the invasion of armies; one does not withstand the invasion of ideas.

Victor Hugo

The Beginning 3rd Try

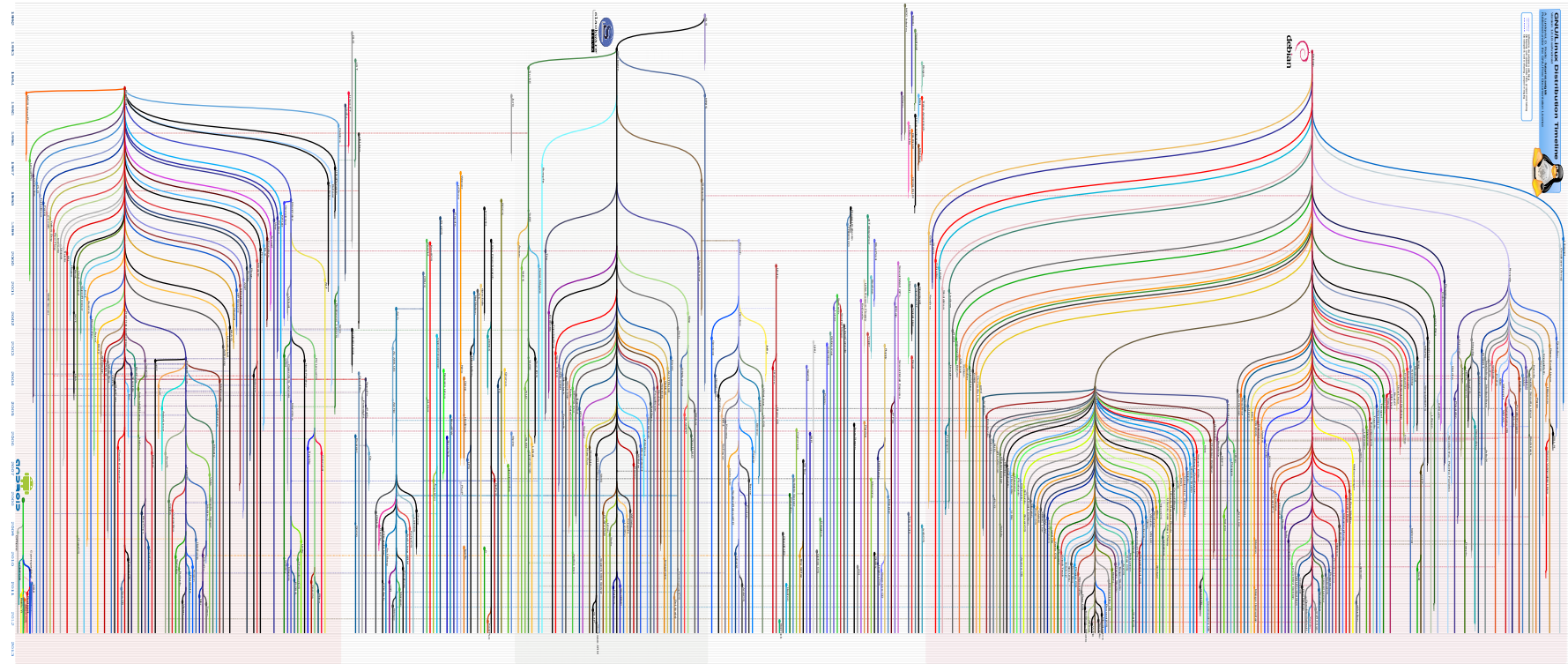


©Ilya Schurov

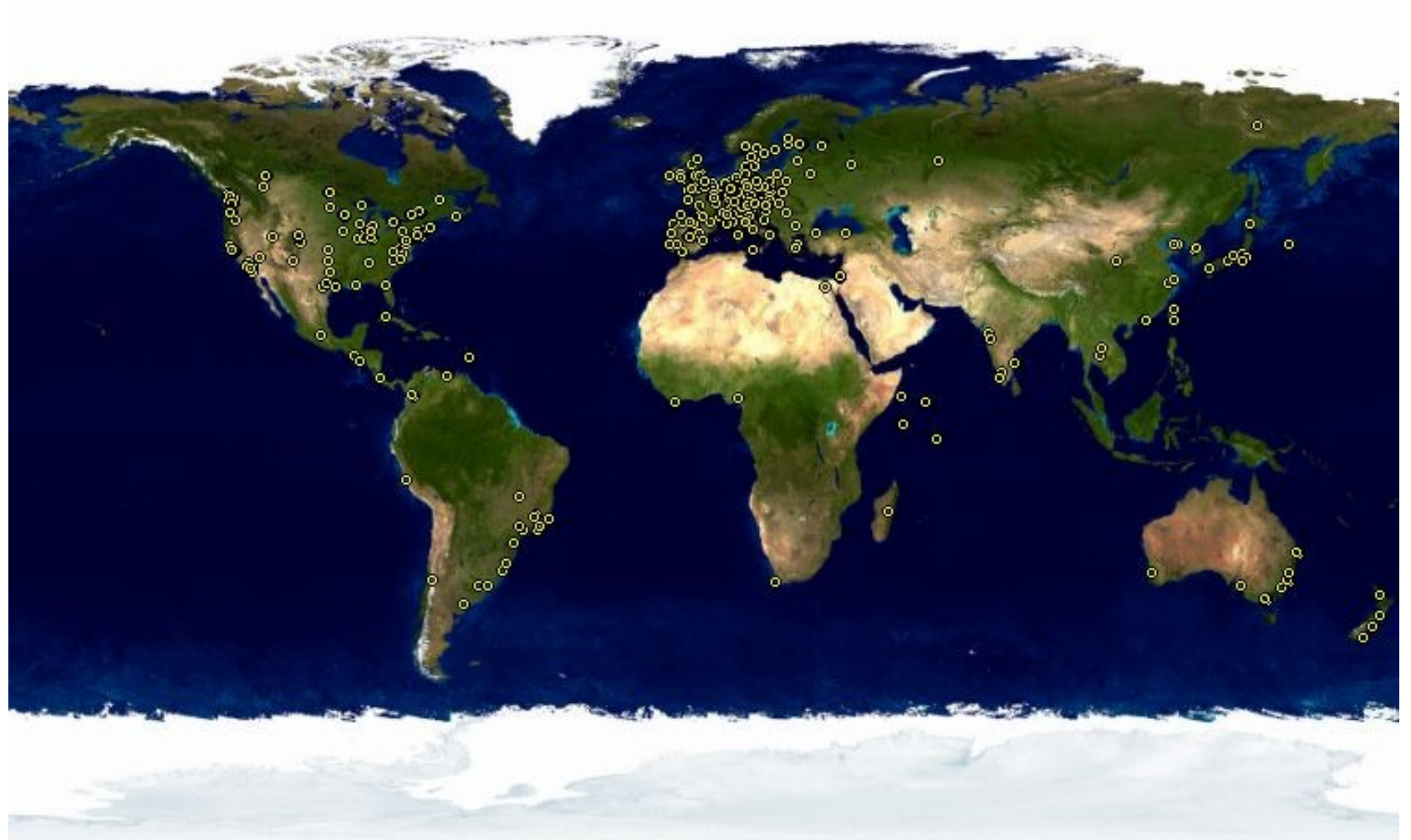
Fellow Linuxers,
This is just to announce the imminent completion of a
brand-new Linux release, which I'm calling the Debian
Linux Release. [. . .]

Ian A Murdock, 16/08/1993
comp.os.linux.development

The Current Landscape



The Current Team



The Current Team



©Aigars Mahinovs

Debian

-

The
Project

Goal: Create the best, Free operating system.

Debian Social Contract
with the Free Software
community (1997)

- * 100% Free Software
- * Don't hide problems
- * Give back
- * Priorities:
Users & Free Software

Debian Free Software
Guidelines (1997)

Base of the Open
Source Definition

Helps decide what is
part of Debian

Debian Constitution
(1998)

Structures and rules of
a Free-Software-
compatible democracy

Debian Free Software Guidelines

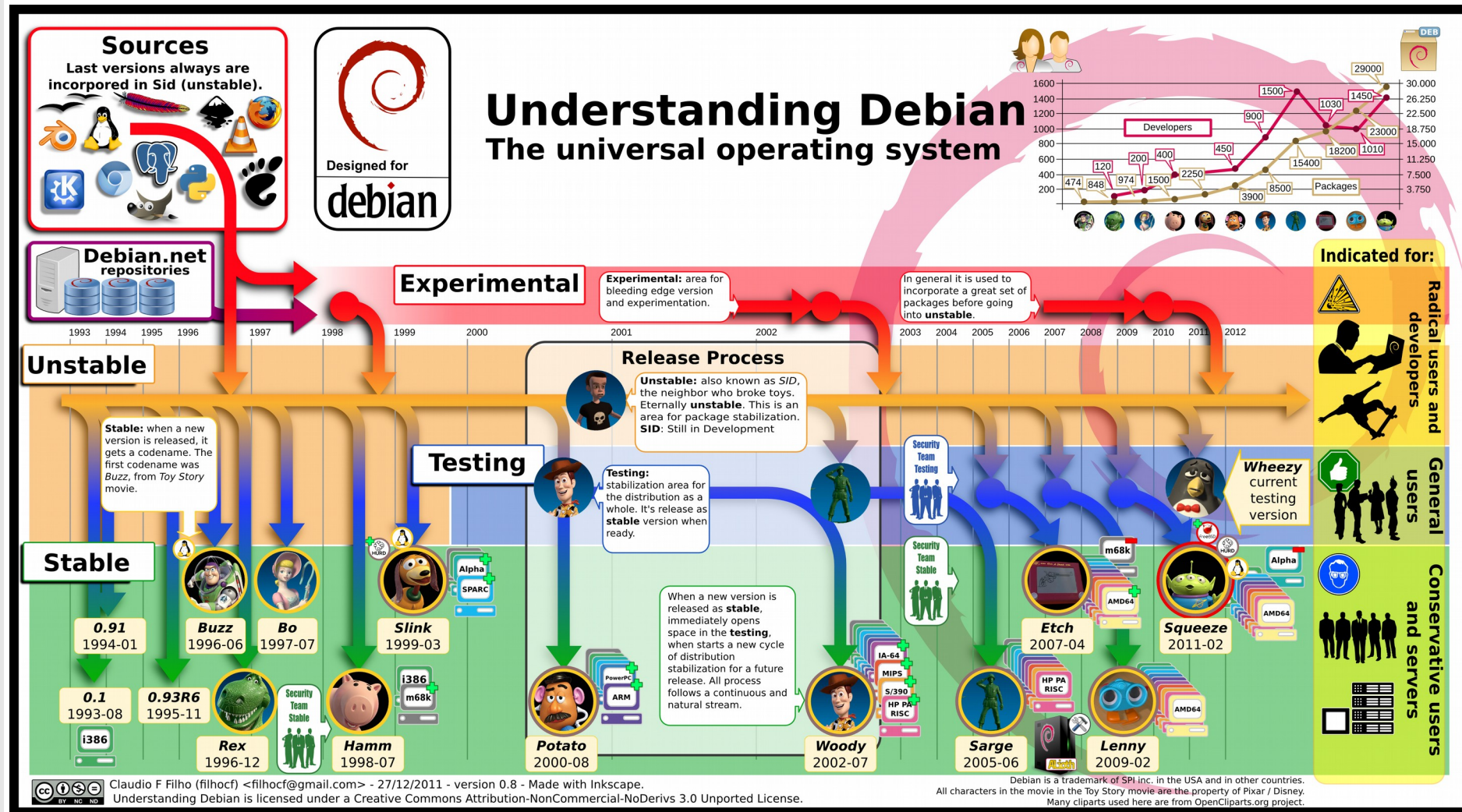
License

- **must** allow free redistribution
- **must** include source code
- **must** allow modifications and derived works
- **must not** discriminate against person or groups
- **must not** discriminate against fields of endeavor
- **must** be distributable
- **must not** be specific to Debian
- **must not** restrict other software

Debian
-
Packages

Jessie		
	Source	Binary
Main	20,626	248,089
Contrib	134	905
Non-free	281	1151

Debian - Releases



Architectures

-

Old and New

-

Big and Small



(c) Bill Bertram

Debian

-

Official

Ports

amd64: x86-64 architecture with 64-bit userland and supporting 32-bit software

arm64: ARMv8-A architecture

armel: Little-endian ARM architecture (ARMv4T instruction set)

armhf: ARM hard-float architecture (ARMv7 instruction set)

i386: IA-32 architecture with 32-bit userland, compatible with x86-64 machines

mips: Big-endian MIPS architecture

mipsel: Little-endian MIPS architecture

powerpc: PowerPC architecture

ppc64el: Little-endian PowerPC64 supporting POWER7+ and POWER8 CPUs

s390x: z/Architecture with 64-bit userland

Debian - Unofficial Ports

alpha: DEC Alpha architecture

hppa: HP PA-RISC architecture

hurd-i386: GNU Hurd kernel on IA-32 architecture

kfreebsd-amd64: Kernel of FreeBSD on x86-64 architecture

kfreebsd-i386: Kernel of FreeBSD on IA-32 architecture

m68k: Motorola 68k architecture on Amiga, Atari, Macintosh and VME systems

powerpcspe: PowerPCSPE architecture

ppc64: PowerPC64 architecture supporting 64-bit PowerPC CPUs with VMX

sh4: Hitachi SuperH architecture

sparc64: Sun SPARC architecture with 64-bit userland

x32: x32 ABI userland for x86-64

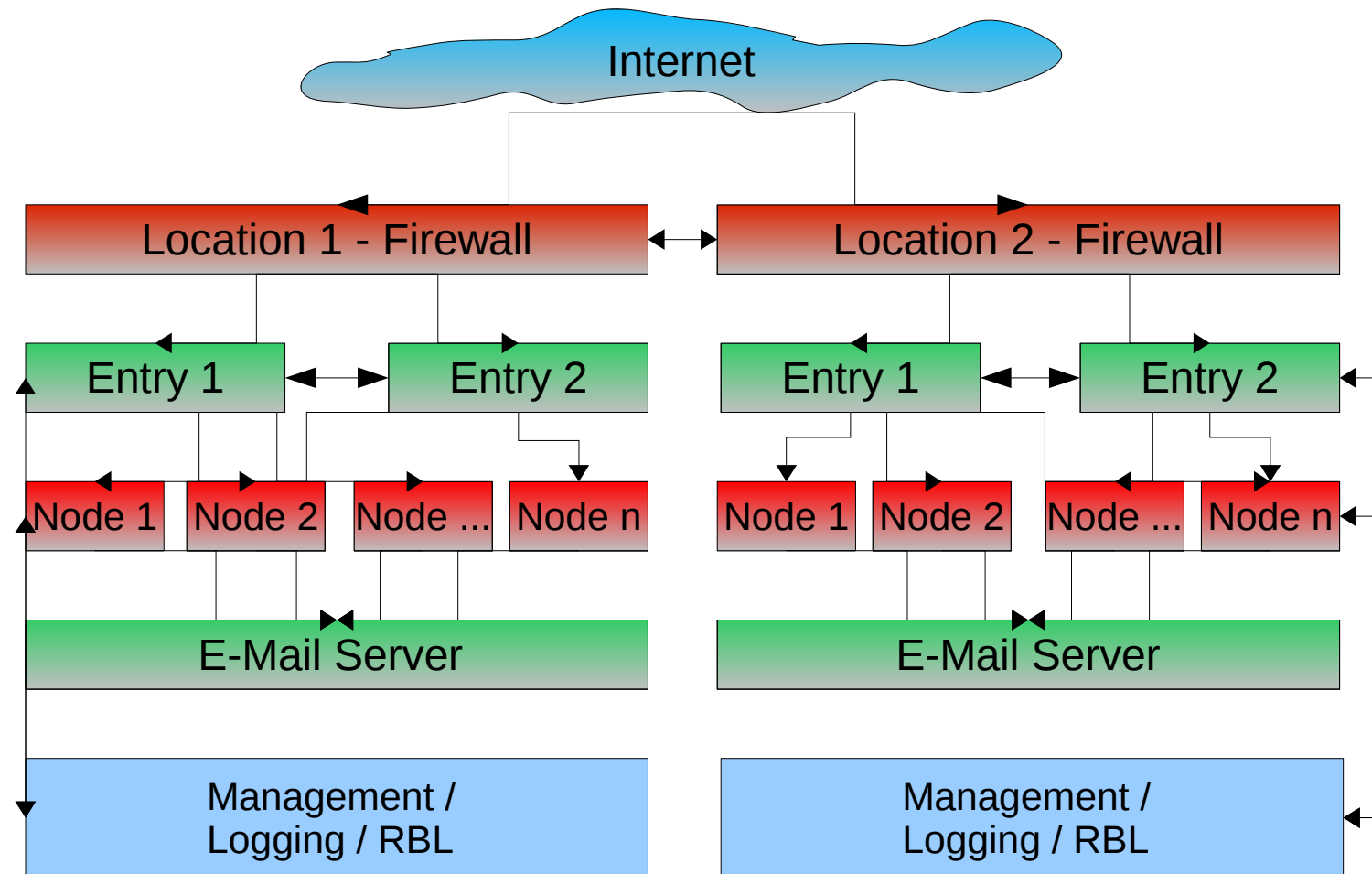
Debian Is Special #1

Culture of technical excellence

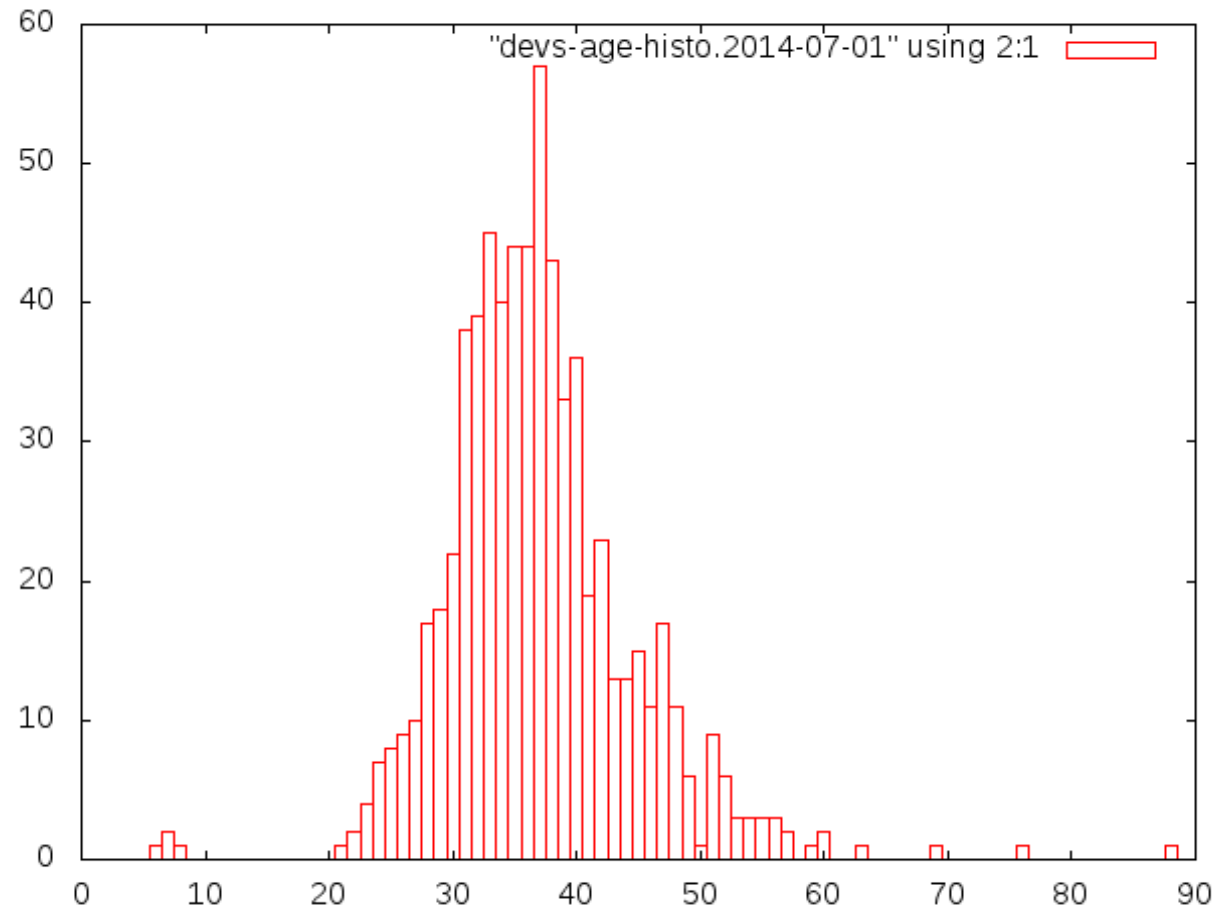
Stefano Zacchiroli (DPL, 2010)

- Package maintainers are software experts
- Package maintainers make decisions about their packages
- Policy defines packaging
- Automated testing
- Automated building
- All packages are equal
- Release if and when software is ready
- Users involved in all steps

Open
Security
Filter
E-Mail
Gateway



Age Of Debian Developers



Keeping

The

Quality

Up

New Maintainer Process

- Check Debian's philosophy
- Verify identity
- Check skills and experience
- Test knowledge about Debian
- Check free time and commitment
- Long and strict process

Debian Is Special #2

Free and Open

- Firm principles everyone bound by the Social Contract
- Promoting the “culture of Free Software” since 1993
- Free from the bottom up
- Community awareness
- Users trust Debian not to betray software freedom
- Set a high bar for software freedom advocates
- All communication and information is open

Openness

Is

Important



© Infrogmation of New Orleans

No

Hidden

Secrets

Vulnerable source packages in the stable suite



☒ high ☒ medium ☒ low ☐ unimportant ☒ not yet assigned ☐ end-of-life ☐ hide remote scope ☐ hide local scope ☐ hide unclear scope ☐ include issues to be checked (shown in purple)
☐ include issues tagged <no-dsa>

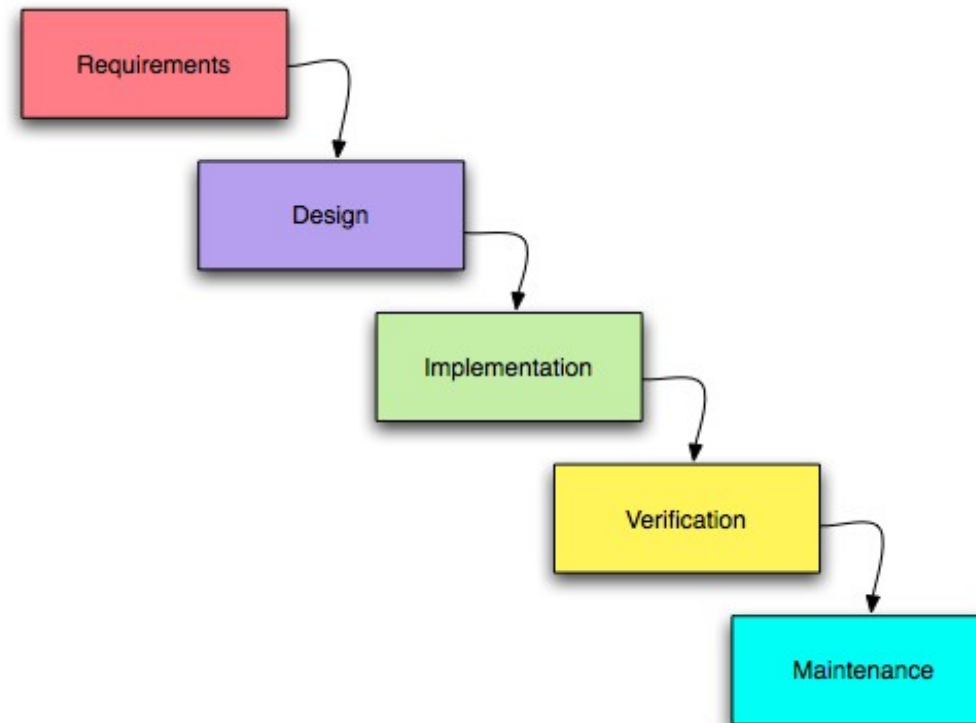
Package	Bug	Urgency	Remote
389-ds-base	CVE-2015-1854	not yet assigned	?
asterisk	CVE-2015-3008	medium**	yes
attic	TEMP-0000000-4E1C9A	not yet assigned	?
dovecot	CVE-2015-3420	not yet assigned	?
glibc	CVE-2015-1781	not yet assigned	?
icu	TEMP-0778511-AAAFE7	low	?
	CVE-2014-8146	high**	yes
	CVE-2014-8147	high**	yes
jackrabbit	CVE-2015-1833	not yet assigned	no
libapache-mod-jk	CVE-2014-8111	medium**	yes
libarchive	TEMP-0784213-45868B	not yet assigned	?
libav	CVE-2015-3395	not yet assigned	?
	CVE-2015-3417	medium**	yes
libopensaml2-java	CVE-2015-1796	not yet assigned	?
libvp8	CVE-2015-1258	high**	yes
libxml2	CVE-2015-1819	low	?
	TEMP-0782985-586F49	not yet assigned	?
	TEMP-0783010-C482B4	not yet assigned	?
linux	CVE-2015-1350	not yet assigned	?
	CVE-2015-2925	not yet assigned	?
	CVE-2015-3636	not yet assigned	?
	CVE-2015-4036	not yet assigned	?

Debian Is Special #3

Independence

- No company making the decisions
- Donations are welcome in form of money & hardware
- Debian is paid by nobody
- Nobody is paid by Debian
- People trust Debian choices not to be “profit-driven”
- We are free to make the best technical decisions

Software Development Waterfall Model



© Paul Hoadley

Software
Development
Waterfall
Model

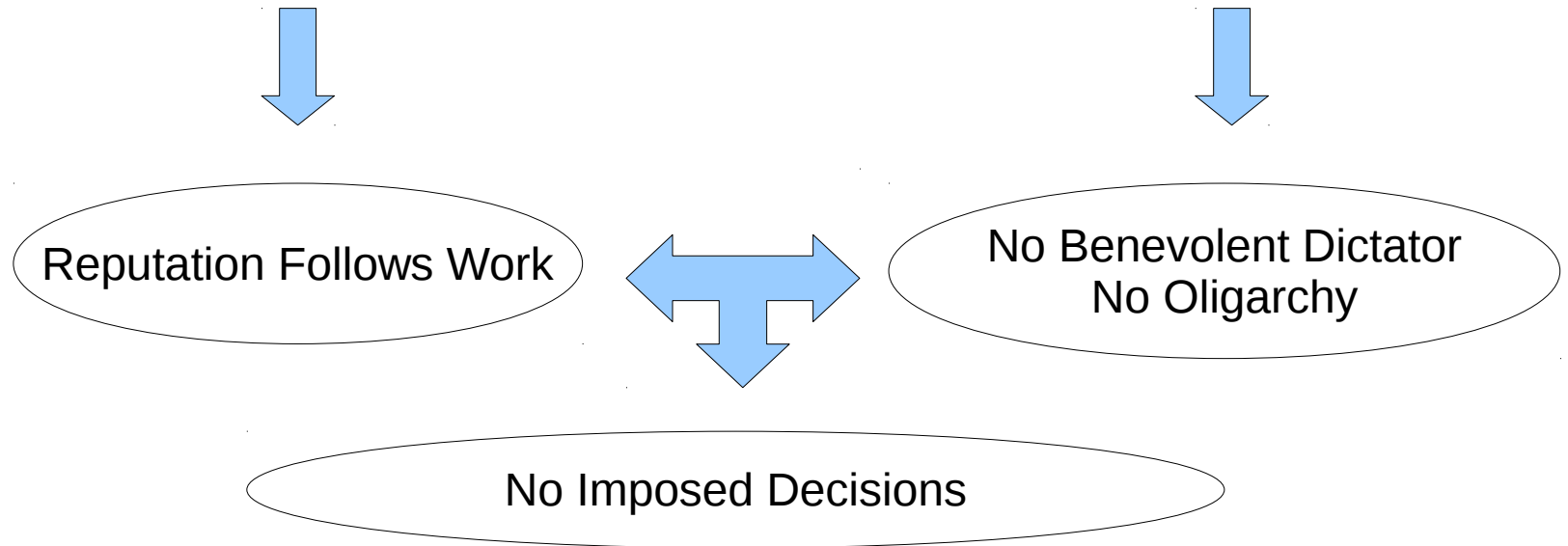


Debian
Is
Special
#4

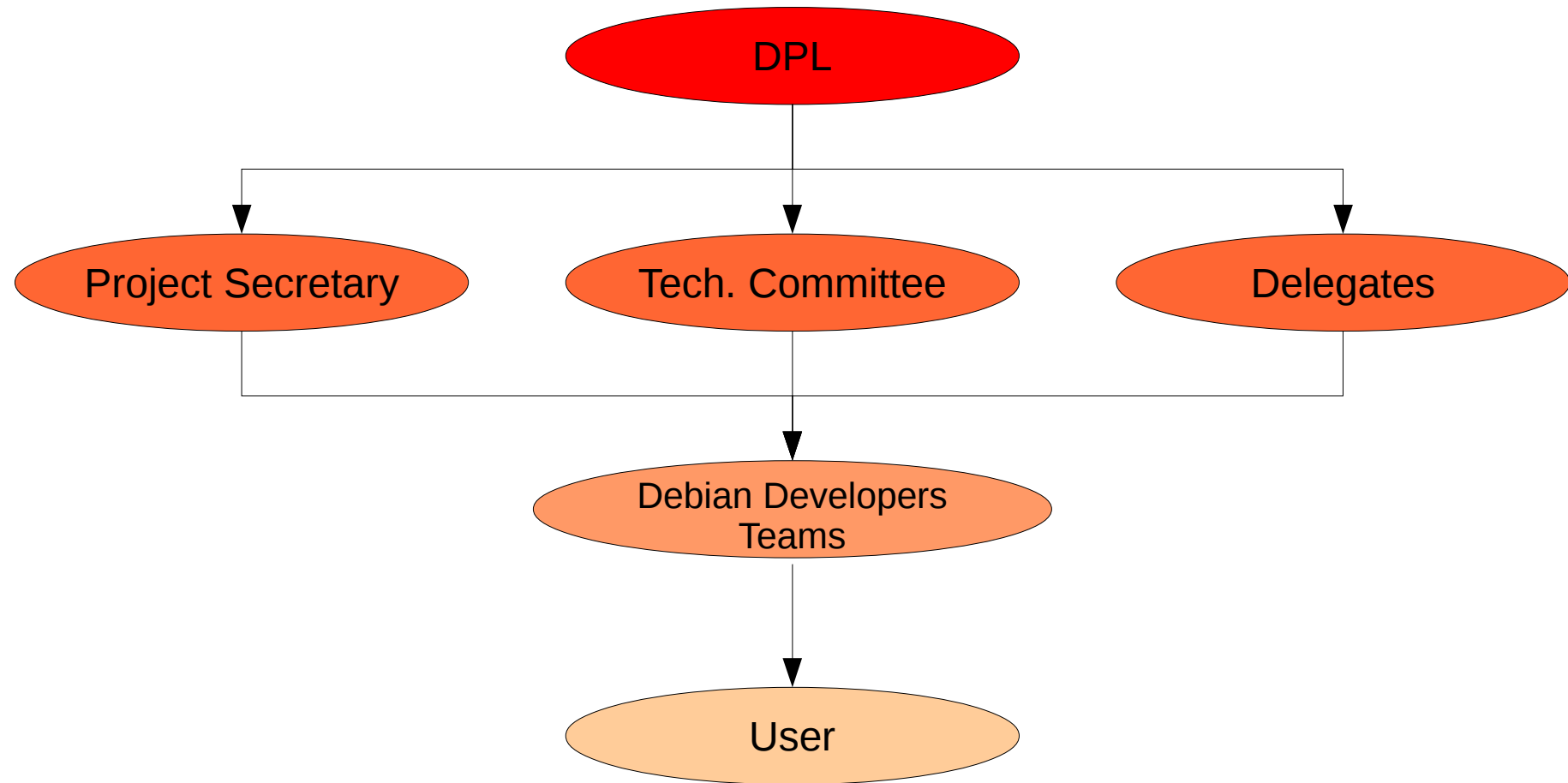
Do-Ocracy and Democracy

An individual Developer may make any technical or nontechnical decision with regard to their own work;
[Debian Constitution, §3.3.1.1]

Each decision in the Project is made by one or more of the following:
1. The Developers, by way of General Resolution [...] [Debian Constitution, §2]



Debian Project Structure



Debian

Is

Special

#5

Tight interaction with other communities

**Free Software
Golden Rules**

Give Back
triage/forward bug report
push changes

Give Credit
attribute & advertise
recognize & thank

Debian = Downstream
Packaging
Bug Aggregation

Debian = Upstream
348 Derivatives
Intermediary
Software Packages

Debian

As

A

Base



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Software in the Public Interest

US 501(c)(3) non-profit organization to help organizations create and distribute open hardware and software



Anyone is eligible to apply for membership, and contributing membership is available to those who participate actively in the free software community.

SPI was originally created to allow the Debian Project to accept donations. It now acts as a fiscal sponsor to many free and open source projects.

Why
Should
I
Care?

YES!

- A mixture of pretty rare features
- Important to a lot of FOSS communities
- Free Software is better served by

Collaboration

Help is always welcome
<https://www.debian.org/devel/join/index.en.html>



Come!

Join!

Us!



© Adrian Frith

Sun July 3rd – Sat July 9th
2016

Michael
Meskes



debian

The Best Linux Distribution