#### Debian dErivatives eXchange (DEX) — BoF

... and other initiatives to improve collaboration with derivatives



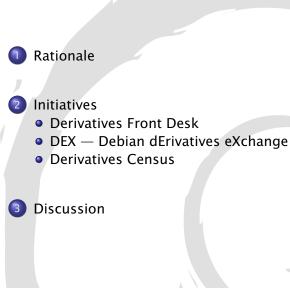
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# On gobby

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## Outline



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## Outline

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## Derivatives are game changers

Derivatives have changed the way in which distros are made

- derivatives' focus is on customization
- people power is needed "only" for that

#### everybody wins (if done properly)

- derivative: massive reuse of packaging work
- "mother" distro: reach out to new public
  - users and contributors

## Debian derivatives

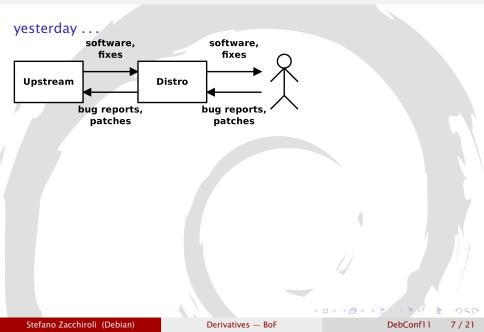
#### Debian: a base for $\approx$ 130 <u>active</u> derivatives — distrowatch.com

 Linspire, Liurex, Mint, LiMux, Sidux, gnuLinEx, Grml, MEPIS, Xandros, Ubuntu, Univention, Damn Small Linux, Collax, Euronode, Floppix, Gibraltar, Kanotix, Knoppix, PureOS, gNewSense, LMDE, 64 Studio, Elive, Freespire, Jolicloud, Kurumin, Maemo, Neopwn, OpenZaurus, Parsix, Xebian, Hackable:1, aptosid, ...

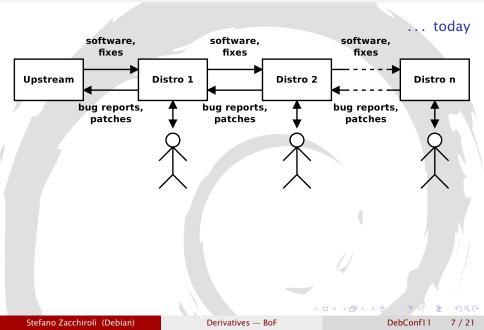
#### Why?

- quality & licensing assurances
- solid base system
- huge package base
- the "universal OS", perfect for customizations

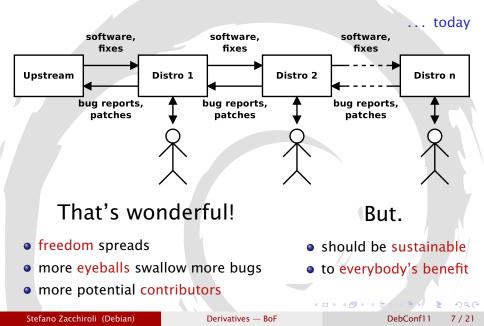
# The distribution pipeline



# The new distribution pipeline



# The new distribution pipeline

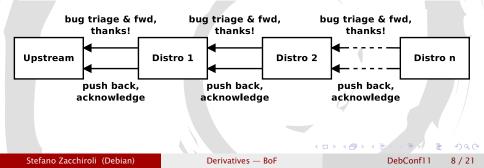


Goal: reducing patch flow viscosity

Free Software is bigger and more important than Debian and any other distro or project

give back, i.e. reduce patch flow viscosity

give credit where credit is due



## Outline

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#### **Derivatives Front Desk**

- started May 2010
  - after Debian/Ubuntu discussions during UDS-M
- purpose:
  - contact point for derivatives who want to give back work but don't know how or have had issues in doing that
  - discussion place among Debian and derivatives (share experiences, organize initiatives, share tools, etc.)
- (intended) side-effect: make emerge a critical mass of Debian people interested in collaborating with / helping out derivatives

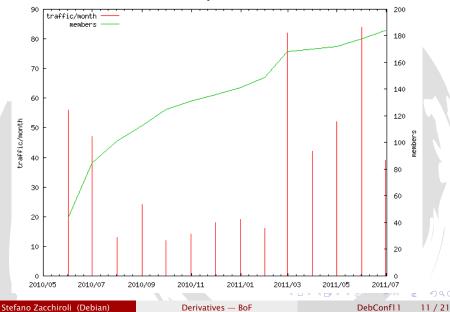
http://wiki.debian.org/DerivativesFrontDesk
debian-derivatives@lists.d.o (discussion place)
derivatives@debian.org (contact point, lands to the list)

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#### debian-derivatives stats



debian-derivatives mailing list traffic and/or members

#### DEX — rationale

Everyone seems to agree that patches should move upstream ... and yet — in practice — it often doesn't happen.

Why is this?

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## DEX — rationale

Looking from the upstream distro:

"I can't keep track of patches in so many derivatives!"
"These changes should have been made in Debian first!"
"You did it wrong!"

"It's not my responsibility. I have enough problems!"
"I have no time. I'm a volunteer, you know!"

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Looking from the downstream distro:

"I tried to contact the maintainer, but they never responded!"

- "We tried. The patch has been in the BTS for years!"
- "We had to solve the problem somehow!"

"It's not my responsibility. I have enough problems!"

"I have no time. I'm a volunteer, you know!"

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## DEX — rationale

- It's not just Debian's problem
- It's not just derivatives' problem
- To do this well, we need to work together
- Let's try something different

## DEX

#### history

- brainstorming Debian/Ubuntu at DebConf10
- announced March 2011
- o purpose:
  - plan, start, and finish (short-lived) discrete projects
  - each project: well-defined set of "deltas" to be merged
  - visible progress
  - allows for derivative-specific sub-projects

http://dex.alioth.debian.org/ Ubuntu DEX team http://dex.alioth.debian.org/ubuntu/ (utnubu merger)

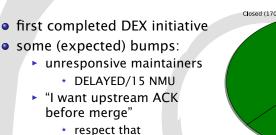
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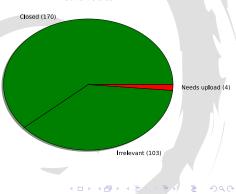
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#### Ubuntu ancient patches

There are about 250 old patches from early development of Ubuntu whose status is unclear. Many are probably obsolete, some have been submitted to the Debian BTS but not merged yet, and so on. — Matt Zimmerman





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Current status

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#### DEX — resources

#### GSOC 2011 project "Backend Tools and Infrastructure for DEX"

- by Nathan Handler, mentored by Matt Zimmerman
- progress monitor for DEX initiatives
  - burndown chart
  - link to debbugs bugs
  - allow to add extra information, not necessarily stored elsewhere (e.g. comments)
- temporary URL:

http://dex.alioth.debian.org/gsoc2011/projects/dex.html

- in use for the "python2.7 by default" migration
- potential to become a generic, debbugs-linked progress tracker

#### **Derivatives Census**

The Debian derivatives census is an attempt to gather detailed information about Debian derivatives that is <u>useful</u> to Debian, for integration of that information into Debian infrastructure and for the <u>development of relationships</u> between Debian and our derivatives. In addition we will be <u>doing some QA</u> on the data that you enter into the census. — Paul Wise, on the census wiki page

http://wiki.debian.org/Derivatives/Census

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#### Derivatives Census — current status

#### census template

- contact points (web, IRC, email, planet, etc.)
- dev info (VCS, dev list, doc pointers, popcon, etc.)
- /etc/apt/sources.list lines
- keep info current: last update, census page maintainer
- see http://wiki.debian.org/Derivatives/CensusTemplate
- 38 derivatives indexed
- outcomes / fun stuff / byproducts:
  - > planet derivatives http://planet.debian.org/deriv/
  - loads of logos created w/ proprietary software (including Debian!)
  - "logo inheritance"
  - some derivatives do not ship source packages
  - requirement analysis for lintian "profiles"
  - ▶ ...
  - ask pabs for more :-)

## Other and future initiatives

- derivative guidelines http://wiki.debian.org/Derivatives/Guidelines
- integration (i.e. derivatives data warehousing in Debian) http://wiki.debian.org/Derivatives/Integration
  - {udd,packages,packages.qa.,patch-tracker}.d.o
  - QA: DDPO, rmadison
  - bug tracking (i.e. bug cross-references) + PTS & wiki
- Debian/DebConf sponsoring

pabs powered!

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## Outline



## Questions

- what's your take on the role of Debian wrt derivatives?
- what more we can do to collaborate with derivatives? (or should we do less?)
- what should we "expect" from derivatives? what should they "expect" from Debian?
- what are your experiences in collaboration with derivatives? what can we learn from them?
- do you follow what happens to your packages in derivatives?
- for DEX: which set of patches do you want to see merged back from some derivative? (remember: small / well defined sets)
- assume we have info about all derivatives packages in a big database (e.g. UDD); how can we leverage the info?

# Thanks!

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