News about Debian Autobuilding
Debconf 9

Philipp Kern

July 26, 2009

Table of contents

Who's doing wanna-build work?

- Luk Claes, Adeodato Simó, Marc Brockschmidt, Andreas Barth, Kurt Roeckx and me
- **software:** Roger Leigh (sbuild maintainer)

What did happen: Architectures

- Addition of two new architectures: kfreebsd-i386,amd64
- Dropping of one architecture: m68k
- One architecture pending re-addition: hurd-i386

What did happen: Software

- **situation before**: very diverse set of software
- synchronisation of the buildd software ("almost unstable", at least for sbuild)
- still some architectures left to convert
- server side still a mess with Perl hashes in BDB databases

What did happen: Points of contact

Goal: Be more public

- **new BTS pseudo-package:** buildd.debian.org
- **new public list:** debian-wb-team@lists.debian.org
- **IRC:** `debian-buildd` on OFTC

Current set of buildd maintainers

- **amd64:** Frederik Schüler, Kurt Roeckx
- **alpha:** Luk Claes, Arthur Loiret(?)
- **arm:** Aurelien Jarno, Wookey
- **armel:** Riku Voipio
- **hppa:** LaMont Jones, Luk Claes, Philipp Kern
- **i386:** Kurt Roeckx, Luk Claes
- **ia64:** LaMont Jones
- **mips{,el}:** Peter De Schrijver, Martin Zobel-Helas
- **powerpc:** Wouter Verhelst, Philipp Kern
- **s390:** Bastian Blank
- **sparc:** Martin Zobel-Helas
- **kfreebsd-{i386,amd64}:** Aurelien Jarno, Cyril Brulebois

Current count of buildds

- **amd64:** 2 non-debian.org, 1 debian.org
- **alpha:** 2
- **arm:** 4 non-debian.org
- **armel:** 4 debian.org, 3 non-debian.org
- **hppa:** 3 (one or two of them crashy), 1 porterbox
- **i386:** 2
- **ia64:** 2
- **mips{,el}:** 2 each
- **powerpc:** 3
- **s390:** 3 non-debian.org
- **sparc:** 3
- **kfreebsd-{i386,amd64}:** 2 non-debian.org each
  (being worked on)

Current count of buildds

- **amd64:** 2 non-debian.org, 1 debian.org
- **alpha:** 2
- **arm:** 4 non-debian.org
- **armel:** 4 debian.org, 3 non-debian.org
- **hppa:** 3 (one or two of them crashy), 1 porterbox
- **i386:** 2
- **ia64:** 2
- **mips{,el}:** 2 each
- **powerpc:** 3
- **s390:** 3 non-debian.org
- **sparc:** 3
- **kfreebsd-{i386,amd64}:** 2 non-debian.org each
  (being worked on)

. . . two are usually enough on *reasonably* fast architectures

Maintainance of Packages-arch-specific

- wanna-build used to have no way to know the source architectures (arch:any)
- specifies either all architectures to build for or excludes
- package does not get added to the corresponding wanna-build database

Maintainance of Packages-arch-specific (2)

- needs manual changes: to be requested through the BTS pseudo-package buildd.debian.org
- view on the various interfaces linked from the PTS currently out-of-date
- available by HTTP: `https://buildd.debian.org/quinn-diff/sid/Packages-arch-specific`
- or git: `https://buildd.debian.org/git/packages-arch-specific.git`

Whom to contact for what?

- **binNMU requests, i.e. transitions:**
  `debian-release@lists.debian.org`
- **multiple architecture give-back requests, dependency waits, other questions:**
  `debian-wb-team@lists.debian.org`
- **software discussion (mainly sbuild):**
  `buildd-tools-devel@lists.debian.org`

Whom to contact for what? (2)

$arch@buildd.debian.org

- problems with specific buildds/architectures
- if a package built but was not uploaded in a sane timeframe
- arch-specific give-backs

Syntax for requests

- see http://release.debian.org/wanna-build.txt

Autosigning: Proposal

- **main goal:** faster turnaround for package builds
- which means: clearing dep-waits faster, speeding up transitions, less work for buildd admins
- proposed for packages with priority $\in$ [optional, extra]
- other packages are still checks and failed logs get mailed as usual

Autosigning: Preconditions

- DSA maintained buildd (i.e. full control over the machine, usual monitoring, tamper checks et al.)
- prevent downloads of malicious code by limiting inbound and outbound traffic for the main build process
- restricted machine

Autosigning: Practical considerations

- GPG keys on the buildds are actually subkeys and rotated (period TBD)
- current state: they need to be passphrase-less (help?)
- separate restricted upload queue for binary-only uploads from the buildds
- keys architecture-limited

What's next?

- move away from raff.debian.org to another machine.
- integration of the unofficial autobuilders into the **debian.org** setup (i.e. *volatile*, *experimental*)
- putting buildds until DSA's control (mainly arm, s390)
- further bringing the software in sync
- pull wanna-build onto a sane database

Questions? Comments?