Hacking Archive Software For Fun, Profit and Pain

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Debconf 11

debian-archive-kit

- `git clone http://ftp-master.debian.org/git/dak.git`
- `setup/README` [1]
- Top level `dak` command provides many subcommands
- Schema update scripts are in `dak/dakdb`: fragile
- Much of the logic can be found in the `daklib/` directory
- The "test suite" is in `tests/`
- Some debian-specific tools are in `tools/`

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[1] By the end of the week, this should be mostly complete. Until then, use the branch at http://ftp-master.debian.org/users/mhy/git/dak.git

Sticking Plasters

- Clean up, centralise and document config for:
  - Mail handling
  - Interfacing with GPG
  - BTS / Packages / Versioning / Debian-specific handling
- Throwing away binaries
- Running lintian as a less privileged user
- Bug fixing... `http://bugs.debian.org/ftp.debian.org`

Painkillers

- Enhancing the test suite
- GPG-signed mail gateway module
- Removing long descriptions from Packages (ansgar is on this)
- debtags integration changes (after discussions with enrico)
- ddebs and tdebs integration support
- Long-term-memory: Remembering sources and binaries (with checksums) long after they're gone
- Enhance manage-build-queues to be able to build from queues, not just suites
- "On-demand" suite handling
- Saner known_changes handling
- Sections and Components need normalising
- Packaging and upload to unstable: maybe after some of the major surgery...

Major Surgery - "Queue handling"

- Requirements:
  - `.changes` signatures should only be checked at initial process-upload (unchecked) time
  - After this, the database should have a complete representation of the upload
  - At the moment, it has most of the schema for this, but uses very little of it
  - Affects process-upload, process-policy, process-new, control-suite, clean-suites, clean-queues
- Why?
  - Stops us rejecting security / proposed-update uploads due to the fact the gpg key expires in the meantime
  - Means that it's much easier to ensure that we track orig files
  - It's the "Right Thing To Do" (TM)

Open-Heart Surgery - "Multiple-Archive" support

- Requirements:
  - Make use of (and probably refactor) the archive and location tables
  - suites will need to be linked to a location
  - Affects process-upload, control-suite and anything which migrates packages between suites
  - Need to update clean-suites and (possibly) clean-queues
  - manage-build-queues will need to be enhanced
  - other that than, how hard can it be?
- Why?
  - data.debian.org
  - First step on merging security-master.debian.org into the main archive
  - PPAs

Administrativia

- Finish moving the ftp-master web-site into the ikiwiki instance
- Clean up `ftp.debian.org` bugs page, expecially for dak related issues [2]
- ...

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[2] Many of the dak related bugs probably don't even apply any more

Any Questions?

- git clone http://ftp-master.debian.org/git/dak.git
- #debian-dak and #debian-ftp on irc.debian.org
- debian-dak@lists.debian.org
- ftpmaster@debian.org