Introducing Perl team

Debian's Perl team structure and organization

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30th October 2010

use Perl;

Contents

About us

use Perl;

We are all perl team members

- **Xavier Oswald** - xoswald@debian.org

    - Member of the Debian Perl Group since 2006
    - Front-Desk member, Applicant Manager, responsible of collab-maint

- **Gregor Herrmann** - gregoa@debian.org

    - Member of the Debian Perl Group since 2006
    - Contributor to the RCBW campaign

- **Dominique Dumont** - ddumont@cpan.org

    - Member of Debian Perl Group since 2009
    - Upstream author of Config Model.
    - Debian contributor for improved configuration upgrade

What is the Debian Perl team?

use Perl;

- Both official Debian Developers and sponsees
- 154 member in pkg-perl project on Alioth[1]
- 78 committers and 17992 commits during the last year[2]
- Also indirectly contributes most of the Perl packages in Debian's derivatives (e.g. Ubuntu).
- Many upstreams authors are contributing

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[1]2010-10-17
[2]between 2009-10-17 and 2010-10-17

Current status

use Perl;

Statistics from UDD[3], 2010-10-21, 4:00pm GMT+1.

- Number of packages: 1647

- libfoo-perl uploads: 6920

- Current opened bugs: 1123 - 2 RC :-(

- Archived bugs: 10777

- Lintian warnings: 3433

- Packages in NEW: 21

- Orphaned packages and/or in adoption: 4

- Popcon sum: 2.351.459

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[3]Ultimate Debian Database
http://wiki.debian.org/UltimateDebianDatabase

Using Perl on Debian

use Perl;

How do you install Perl modules?

- apt-get install libfoo-perl
- Backports for older releases
- CPAN for unpackaged modules

CPAN (the tool) is configured to play nicely with Debian packages, but does not install packages when dependencies are missing.

use Perl;

Tools

http://pkg-perl.alioth.debian.org

- Svn (mostly) and Git
- http://bugs.debian.org
- IRC (#debian-perl on OFTC)
- Wiki: http://wiki.debian.org/Teams/DebianPerlGroup
- Two mailing lists (discussion, automated messages)

What makes the difference?

Package Entropy Tracker - PET

use Perl;

http://pet.alioth.debian.org/

- Follow RC bugs

- New upstream releases

- Ready for upload

- New and Incoming

- . . .

Useful when maintaining a huge amount of packages.

Package Entropy Tracker - PET

use Perl;

Debian Perl Group

With RC bugs (7)				
Package	**Repository**	**Archive**	**Bugs**	**Upstream**
libcgi-application-extra-plugin-bundle-perl [more] 17 binaries...	0.2 (0.3)	0.2 (experimental) [more] [NG]	1	Native
libclass-isa-perl [more]	0.36-1	0.36-1	1	0.36 (browse)
libmojomojo-perl [more]	1.01-1	1.01-1 [more]	2	1.02 (browse)
libpod-plainer-perl [more]	1.02-1	1.02-1	1	1.03 (browse)
libswitch-perl [more]	2.16-1	2.16-1	1	2.16 (browse)
libsys-sigaction-perl [more]	0.11-1 (0.11-2)	0.11-1 [more]	1	0.11 (browse)
libverilog-perl [more]	3.303-1	3.303-1 [more]	2	3.303 (browse)
Newer upstream release available (58)				
Package	**Repository**	**Archive**	**Bugs**	**Upstream**
libanyevent-perl [more]	5.271-2	5.271-2 [more]		5.280 (browse)
libapache2-reload-perl [more]	0.10-2 (0.10-3)	0.10-2 [more]	1	0.11 (browse)
libaudio-flac-header-perl [more]	2.3-1 (2.3-2)	2.3-1 [more]		2.4 (browse)
libb-keywords-perl [more]	1.09-1 (1.09-2)	1.09-1 [more]		1.10 (browse)
libbusiness-onlinepayment-ippay-perl [more]	0.05~02-2 (0.05~03-3)	0.05~02-2 [more]		0.05 (browse)
libcatalyst-engine-apache-perl [more]	1.12-3 (1.15-1)	1.12-3 [more]		1.16 (browse)
libcgi-formalware-perl [more]	1.13-1 (1.13-2)	1.13-1 [more]		1.16 (browse)
libchart-perl [more]	2.4.1-5 (2.4.1-6) (1 patch)	2.4.1-5 [more]	2	2.4.2 (browse)
libclass-accessor-grouped-perl [more]	0.09006-1	0.09006-1 [more]	1	0.09008 (browse)
libconfig-model-perl [more]	1.209-1 (1.210-1) (1 patch)	1.209-1 [more]	1	1.212 (browse)
libconfig-model-tkui-perl [more]	1.311-1 (1.311-2)	1.311-1 [more]	1	1.313 (browse)
libdbd-oracle-perl [contrib] [more]	1.24b-1 (1.26-1) (1 patch)	1.24b-1 [more]		1.26 (browse)
libdbd-sqlite3-perl [more]	1.29-3 (1.29-4) (3 patches)	1.29-3 [more]	1	1.31 (browse)
libdbix-class-timestamp-perl [more]	0.12-1 (0.13-1)	0.12-1 [more]		0.14 (browse)

Managing changelog

use Perl;

Pseudo-headers that are set in changelog files and used by PET

- UNRELEASED
- IGNORE-VERSION
- WAITS-FOR

http://pkg-perl.alioth.debian.org/changelog.html

Subversion usage guidelines

use Perl;

Guide for handling packages in subversion

- Repository anatomy
- Initial upload
- Building a package
- Tagging and Releasing
- Upstream upgrade

http://pkg-perl.alioth.debian.org/subversion.html

Debian Perl Group Policy

use Perl;

Internal rules

- Mandatory mailing lists and such
- debian/changelog handling and versioning
- debian/control handling
- debian/watch handling
- Debian Maintainers practice
- Release Process

http://pkg-perl.alioth.debian.org/policy.html

Tips and tricks

use Perl;

We have a small guide of tips used by perl team members to make
life easier when packaging perl modules.

- Functions
- Aliases
- Scripts[4]

Contributions are welcome.
http://pkg-perl.alioth.debian.org/tips.html

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[4]cf. also a collection of scripts in our svn repo:
http://svn.debian.org/viewsvn/pkg-perl/scripts/

When a module isn't packaged

use Perl;

If the Perl module you need is not available, you have several options:

1. Install it with CPAN, and handle future upgrades yourself.

2. File an RFP (Request for package) bug in Debian.[5]

3. Build yourself a private Debian package with dh-make-perl, and handle future upgrades yourself.

4. Get involved and contribute it back to Debian!

Getting involved is easier than you think.

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[5] http://pkg-perl.alioth.debian.org/howto/RFP.html

Creating a package - dh-make-perl

use Perl;

dh-make-perl can jump-start creating a new Perl package.

- `apt-get install dh-make-perl` and read the man page.
- Run `dh-make-perl --cpan Module::Name`.
- Add `--pkg-perl` if you are packaging for the team.
- Then run `debuild` and hack until it builds.

If you don't want to contribute it to Debian, you could stop here.

Creating a package - svn-buildpackage

use Perl;

Once you have an initial package, you can (as a pkg-perl member)
upload to SVN. pkg-perl uses a fairly complex SVN layout.[6]

- Use svn-inject to inject new packages,
- svn-buildpackage for building, and
- svn-upgrade for upstream upgrades.

Leave the suite at 'UNRELEASED' in debian/changelog for now.
Commits are logged to IRC.

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[6]http://pkg-perl.alioth.debian.org/subversion.html

Creating a package - cowbuilder

use Perl;

One of the more tricky parts of packaging is getting the build dependencies correct. cowbuilder is a tool for building packages in a clean chroot:

- sudo apt-get install cowbuilder
- sudo cowbuilder --create
- sudo cowbuilder --build libfoo-perl_1.0-1.dsc[7]
- Can also be integrated into svn-buildpackage.

Check the test suite gets run!

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[7]The .dsc file is built in the previous step

Creating a package - lintian

use Perl;

We want Debian packages to be of high quality. lintian is a tool that can check for common problems.

- sudo apt-get install lintian
- lintian -iI --pedantic --color=auto
  libfoo-perl_1.0-1_amd64.changes
- Can also be integrated with debuild/cowbuilder.

use Perl;

Creating a package - getting feedback

Once you think your package is ready for review, mark it as such:

- dch -r
- (or 's/UNRELEASED/unstable/' in debian/changelog)
- svn commit -m 'dch -r; ready for review'

The package status will be changed automatically in PET.

use Perl;

Creating a package - what next?

- You are likely to get feedback via IRC or email.

- Sometimes lists of TODO items are left for you in debian/changelog by the reviewer, with the suite set back to UNRELEASED.

- Once the reviewer is happy, they will upload the package and tag the release in SVN.

Getting involved - joining the team

use Perl;

- Create an alioth account

- Apply to join the pkg-perl group on alioth

- Introduce yourself on the debian-perl mailing list

- Optionally use IRC for realtime communication

http://wiki.debian.org/Teams/DebianPerlGroup/Welcome

Credits

use Perl;

Slides

- Copyright 2010, Xavier Oswald, Gregor Herrmann, Dominique Dumont. Based on slides by Tim Retout.
- Licensed under the same terms as Perl (Artistic — GPL-1+)

Logo[8]

- Copyright 2009, Damyan Ivanov
- License: Beerware

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[8]http://wiki.debian.org/Teams/DebianPerlGroup/LogoContest

Questions?

use Perl;

Thanks for your attention[9]

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[9]http://pkg-perl.alioth.debian.org/docs/miniDebConf-paris2010/