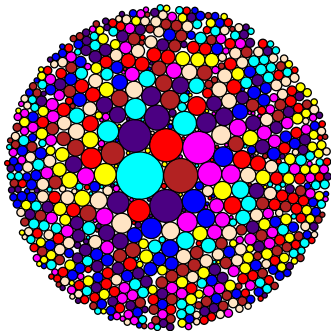


# Debian Haskell BoF

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DebConf 2015, August 17, 2015



This is a BoF, not a talk

- Quick overview
- News from DebCamp
- Then: Open discussion

We maintain

- the Haskell compiler (GHC),
- the Haskell library packages and
- a few Haskell programs as well.

Let's see how are are doing. . .

<b>Maintainer</b>	<b>Packages</b>
pkg-haskell-maintainers@l.a.d.o	66325
debian-qt-kde@lists.debian.org	62373
debian-science-maintainers@l.a.d.o	52693
pkg-multimedia-maintainers@l.a.d.o	40207
pkg-perl-maintainers@l.a.d.o	35496
pkg-games-devel@l.a.d.o	29311
packages@qa.debian.org	25069
debian-med-packaging@l.a.d.o	25016
pkg-gnome-maintainers@l.a.d.o	24245
debian-ocaml-maint@lists.debian.org	22401

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Oops, counted all versions...

<b>Maintainer</b>	<b>Packages</b>
debian-kernel@lists.debian.org	5880
pkg-perl-maintainers@l.a.d.o	3203
pkg-haskell-maintainers@l.a.d.o	3128
debian-science-maintainers@l.a.d.o	2114
debian-qt-kde@lists.debian.org	2022
pkg-java-maintainers@l.a.d.o	1889
pkg-ruby-extras-maintainers@l.a.d.o	1462
packages@qa.debian.org	1345
python-modules-team@l.a.d.o	1267
debian-boot@lists.debian.org	1148

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Oops, counted binary packages...

<b>Maintainer</b>	<b>Packages</b>
pkg-perl-maintainers@l.a.d.o	3164
pkg-java-maintainers@l.a.d.o	995
pkg-haskell-maintainers@l.a.d.o	877
pkg-ruby-extras-maintainers@l.a.d.o	868
packages@qa.debian.org	745
debian-med-packaging@l.a.d.o	567
python-modules-team@l.a.d.o	562
debian-science-maintainers@l.a.d.o	521
pkg-multimedia-maintainers@l.a.d.o	459
pkg-games-devel@l.a.d.o	428



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pkg-perl-maintainers@l.a.d.o	3164
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packages@qa.debian.org	745
debian-med-packaging@l.a.d.o	567
python-modules-team@l.a.d.o	562
debian-science-maintainers@l.a.d.o	521
pkg-multimedia-maintainers@l.a.d.o	459
pkg-games-devel@l.a.d.o	428

That's about right...

## We are few (last 6 months)

<b>Who</b>	<b>Uploads</b>
Joachim Breitner	1571
Clint Adams	55
Dmitry Bogatov	28
Colin Watson	17
Sven Bartscher	6
Iain Lane	3
Daniel Silverstone	3
Raúl Benencia	3
Jonas Smedegaard	3
Iustin Pop	2
James McCoy	2
Kristoffer H Rose	2
Debian Haskell Group	1
Gianfranco Costamagna	1
Marcel Fourné	1
Christopher Reichert	1

## We appear to be efficient (last 6 months)

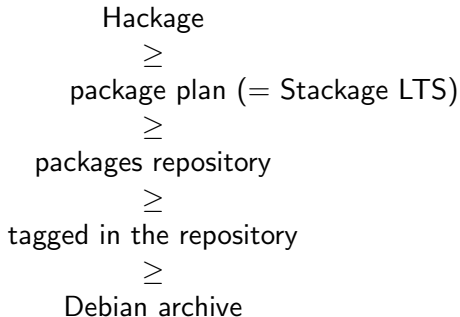
<b>Group</b>	<b>Uploads</b>	<b>per person</b>
pkg-perl-maintainers@l.a.d.o	1582	45.2
pkg-haskell-maintainers@l.a.d.o	1701	94.5
pkg-ruby-extras-maintainers@l.a.d.o	615	19.8
debian-qt-kde@lists.debian.org	849	60.6
pkg-java-maintainers@l.a.d.o	417	19.0
debian-med-packaging@l.a.d.o	350	9.2
python-modules-team@l.a.d.o	335	5.0
debian-science-maintainers@l.a.d.o	367	7.1
openstack-devel@l.a.d.o	440	62.9
pkg-gnome-maintainers@l.a.d.o	280	15.6

# What's special about Haskell packages

- Very homogenous, due to Cabal and Hackage +
- If it compiles, it works +
- There is a “upstream distribution” called Stackage, that we can build upon. **NEW** +

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- If it compiles, it works +
- There is a “upstream distribution” called Stackage, that we can build upon. **NEW** +
  
- Too strict or too weak dependencies -
- No ABI stability -



# The package plan in detail

```
http://anonscm.debian.org/cgit/pkg-haskell/  
package-plan.git/
```

Contains meta-data of all our packages:

- Package name (Hackage name!)
- Package version (again, Hackage version)
- Attributes like “Run test suite”, “package is obsolete” etc.
- For programs: Corresponding binary package
- Patches
- Additional cabal files (when not on Hackage, or modified there)

The script `test-packages.pl` tests this using `cabal install`.  
Also ran by `jenkins.debian.net`, where statistics are collected.

Invariant: This script should always succeed!

- Darcs to Git switch. All packages in one repository, `debian/-only`
- Concept of key packages
- Tools packaged and better documented. (next slide)
- GHC and `cabal-install` backported to jessie.
- GHC-7.10 preparation on `st3` branch of package plan and packages repository, close to be done. Then:  
Upload to experimental for NEW processing, then unstable.
- <http://wiki.debian.org/Haskell> improved (thanks Kris!)



# Tooling!

```
$ apt-get install pkg-haskell-tools
$ dht --help
Usage: ./dht subcommand [args..]
```

This is the Debian Haskell Team multi purpose tool, combining various more or less useful tools.

Supported subcommands:

cabal-debian - Run cabal-debian with inferred parameters

debian2dsc - generate a dsc file from a debian directory

init - Create an initial packaging

make-all - Rebuilds a set of packages

mass-change - Apply a change to many packages

tag - Tag a built package

upgrade - Upgrade a package to the version in the package plan

upload - Uploads, tags and pushes

what-to-build - Find packages to be built

what-to-upgrade - Find packages to be upgraded

## Open questions

- Still open: What should we package?
- Dynamic linking: Yes? No? Maybe?
- How to better spread the work load?

## Things to do

- pkg-haskell-tools code improvement (robustness, Haskell reimplementations)
- pkg-haskell-tools testsuite
- General bug triaging
- Upgrading (non-stackage) packages

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