

Debian Science Blend

Scientific research using Debian

Andreas Tille

Libre Software Meeting

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Overview

- 1 Current status
- 2 Better science support in Blends
- 3 Realisation
 - Done
 - Work in progress
 - Todo

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Debian Pure Blends

- Formerly known as “Custom Debian Distributions”
- Specific adaptations to certain workfields
- **No derivative** from Debian but reside completely inside Debian

*Basic idea: Do not make a separate distribution
but make Debian fit for special purpose instead*

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Specific scientific Blends

Debian Med Strong focus on Microbiology

Debian GIS Geographical Information Systems (especially GRASS)

DebiChem Chemistry

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Why not more?

- Idea of Debian Pure Blends needs some time to penetrate
- Advantages are not widely known
- Nobody likes to do the grunt work
- Umbrella to form more in the future

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Debian Science Blend

- Blends provide straightforward access to package pool
- No need for searching interesting packages
- Engagement for packaging more scientific Free Software
- Further add-ons like user menus, preconfiguration, ...
- Installer with adapted tasksel options
- Tasks web pages
- Specific bugs overview

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Science specific metapackages

- science-astronomy
- science-biology
- science-chemistry
- science-electronics
- science-engineering
- science-geography
- science-linguistics
- science-mathematics
- science-meteorology
- science-neuroscience-cognitive
- science-physics
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Common science utilities

- science-dataacquisition
- science-imageanalysis
- science-statistics
- science-typesetting
- science-viewing

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Tasks files for *blends-dev*

- Done in two Extremadura meetings
 - Thanks to the *Junta de Extremadura*
 - Thanks to *Frederic Lehobey* and *Dominique Belhachemi*
- Sensitisation of debian-science mailing list
 - pure packaging + user questions

→ become a Blend which provides a *solution*

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Some URLs

[http://wiki.debian.org/DebianScience:](http://wiki.debian.org/DebianScience)

Debian Wiki

<http://wiki.debian.org/DebianScience/...>

...ContributingToDebianScience:

Contributing To Debian Science

<http://debian-science.alioth.debian.org/...>

...debian-science-policy.html:

Debian Science Policy

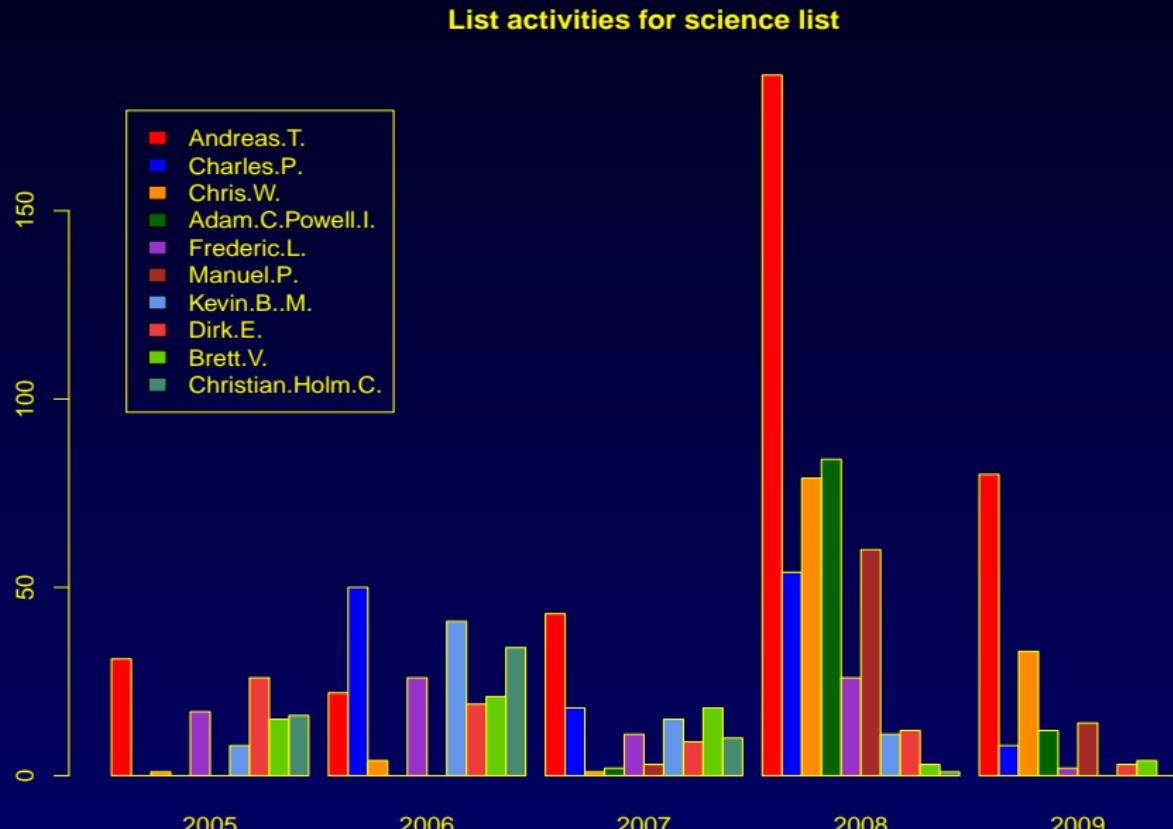
<http://blends.alioth.debian.org/science/tasks/>:

Tasks overview

<http://debian-med.alioth.debian.org/>:

Future web features like in Debian Med possible

Top 10 posters on *debian-science@lists.debian.org*



Using the web tools provided by Blend framework

- Blend framework uses tasks files to build task information pages
- Porting the QA tools of Debian Med Blend to all other Blends
- Forming an instance for upstream developers of scientific software
- Working on the Todo list of not yet included packages

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How to help

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- Go Screenshotting
- Go Debuttagging
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Todo

- Go on with the nice work
- Increase support of single sciences to create more specific Blends
- Advertise the support of sciences in Debian to scientists
- Invite derivatives to join the effort

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This talk is available at



<http://people.debian.org/~tille/talks/>

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