Debian Science Blend
Scientific research using Debian

Andreas Tille

Libre Software Meeting

Nantes, July 2009
Overview

1. Current status

2. Better science support in Blends

3. Realisation
   - Done
   - Work in progress
   - Todo
Overview

1 Current status

2 Better science support in Blends

3 Realisation
   • Done
   • Work in progress
   • Todo
Overview

1. Current status

2. Better science support in Blends

3. Realisation
   - Done
   - Work in progress
   - Todo
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*
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

Andreas Tille (Libre Software Meeting) Debian Science Blend Nantes, July 2009
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

Andreas Tille (Libre Software Meeting) Debian Science Blend Nantes, July 2009
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*
Specific scientific Blends

Debian Med  Strong focus on Microbiology
Debian GIS  Geographical Information Systems (especially GRASS)
DebiChem  Chemistry
Specific scientific Blends

Debian Med  Strong focus on Microbiology
Debian GIS  Geographical Information Systems (especially GRASS)
DebiChem  Chemistry
Specific scientific Blends

Debian Med  Strong focus on Microbiology
Debian GIS  Geographical Information Systems (especially GRASS)
DebiChem   Chemistry
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
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
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
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
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

Andreas Tille (Libre Software Meeting)
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
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
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
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
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
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
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
- science-robotics
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
- science-robotics
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
- science-robotics
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
- science-robotics
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
- science-robotics
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
- science-robotics
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
- science-robotics
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
- science-robotics
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
- science-robotics
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
- science-robotics
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
- science-robotics
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
- science-robotics
Common science utilities

- science-dataacquisition
- science-imageanalysis
- science-statistics
- science-typesetting
- science-viewing
Common science utilities

- science-dataacquisition
- science-imageanalysis
- science-statistics
- science-typesetting
- science-viewing
Common science utilities

- science-dataacquisition
- science-imageanalysis
- science-statistics
- science-typesetting
- science-viewing
Common science utilities

- science-dataacquisition
- science-imageanalysis
- science-statistics
- science-typesetting
- science-viewing
Common science utilities

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

- science-astronomy-dev
- science-engineering-dev
- science-mathematics-dev
- science-meteorology-dev
Development

- science-astronomy-dev
- science-engineering-dev
- science-mathematics-dev
- science-meteorology-dev
Development

- science-astronomy-dev
- science-engineering-dev
- science-mathematics-dev
- science-meteorology-dev
Development

- science-astronomy-dev
- science-engineering-dev
- science-mathematics-dev
- science-meteorology-dev
Tasks files for blends-dev

- Done in two Extremadura meetings
  - Thanks to the Junta de Extremadura
  - Thanks to Frederic Lelobey and Dominique Belhachemi
- Sensitisation of debian-science mailing list
  pure packaging + user questions
  → become a Blend which provides a solution
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
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
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*
Some URLs

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

Andreas Tille (Libre Software Meeting) Debian Science Blend Nantes, July 2009
Andreas Tille
Libre Software Meeting
Debian Science Blend
Nantes, July 2009
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
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
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
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
How to help

- Go translating package descriptions
- Go Screenshotting
- Go Debtagging
- Bother authors of non-free licenses
How to help

- Go translating package descriptions
- Go Screenshotting
- Go Debtagging
- Bother authors of non-free licenses

Andreas Tille (Libre Software Meeting)  Debian Science Blend  Nantes, July 2009
How to help

- Go translating package descriptions
- Go Screenshooting
- Go Debtagging
- Bother authors of non-free licenses
How to help

- Go translating package descriptions
- Go Screenshotting
- Go Debtagging
- Bother authors of non-free licenses
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
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
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
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
This talk is available at

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

Andreas Tille <tille@debian.org>