Application of Ultimate Debian Database in Debian Pure Blends
Harvesting information about packages for specific work fields

Andreas Tille

Debian Conference 9

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Overview

1. Debian Pure Blends
   - Short introduction
   - Blends features
   - Web tools

2. Ultimate Debian Database
   - Short introduction
   - Advantages of using UDD for Blends

3. Future
   - Planned features for Blends
   - TODO
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Main misunderstanding: CDD was regarded as “something else than Debian” even if people were told that it is a concept _inside_ Debian explicitly

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Reminder: Basic goal of Blends

- Debian > 22,000 packages
- Users interested in *subset*
- Groups of specialised users
- Easy installation and configuration
- While Debian stays general support specialists as well
- **No derivative** from Debian

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- Upstream anticipates enhancements of build system and security audit
- Finally support upstream developers to become Debian maintainers
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Attracting people to use Blends

Developers

- Acceptance of new methods higher if the techniques provided are convincing enough
- Simple way to categorise packages ("tasks files")
- Key documentation feature
- QA pages (Bugs of relevant packages, DEHS planned)

Users

- Promote the packages that fit the needs of a particular user's environment
- Provide information on the package using a form filling technique

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Building a set of metapackages

- Define set of dependency relations
- Verify availability of Depends / Recommends
- Packages unavailable in main will be turned into Suggests
- Create proper debian/control file to build valid metapackages
- Create tasksel control file <BLENDS>-tasks.desc
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The document discusses the application of UDD in Blends by Andreas Tille, focusing on Debian Pure Blends. It details the short introduction to Blends features and includes a short introduction to the Ultimate Debian Database. The content is divided into sections for advantages and future planned features for Blends. The specific section on building a set of metapackages includes:

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- Providing information about packages of interest
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Quick overview about what’s inside Debian regarding their specific work field

First slight connection to DebTags (more to come)

Turned out to be QA tool for developers as well
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http://blends.alioth.debian.org
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→ Demo http://blends.alioth.debian.org
**Weighting bugs**

- **Try to find a measure for bugs of dependant packages**
- Currently not normalised to the number of dependencies but rather regarding absolute number of bugs
- Weighting numbers for the different severities ranging from 10 for the RC bugs until 0 for wishlist bugs

### Example calculation

<table>
<thead>
<tr>
<th>Type of Bug</th>
<th>Calculation</th>
<th>Weighted Sum</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 serious bug in dependent pkg:</td>
<td>$1 \times 10 \times 3 = 30$</td>
<td>30</td>
</tr>
<tr>
<td>2 important bugs in dependent pkg:</td>
<td>$2 \times 5 \times 3 = 30$</td>
<td>30</td>
</tr>
<tr>
<td>1 important bug in suggested pkg:</td>
<td>$1 \times 5 \times 1 = 5$</td>
<td>5</td>
</tr>
<tr>
<td>1 normal</td>
<td>$1 \times 3 \times 3 = 9$</td>
<td>9</td>
</tr>
<tr>
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<td>$1 \times 1 \times 3 = 3$</td>
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**weighted sum = 77**
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</tr>
<tr>
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- PostgreSQL database containing all structured information about various aspects of Debian packages including:
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  - Popularity contest
  - History of uploads and migrations to testing
  - Lintian
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  - Orphaned packages
  - Carnivore
  - Packages in new queue
  - Debian Description Translation Project (DDTP)
  - Links to `screenshots`
  - DEHS (since 2 days 😊)

- Information updated via cron jobs from different public sources
- Also Ubuntu package information available but not relevant in Blends context
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  - Orphaned packages
  - Carnivore
  - Packages in new queue
  - Debian Description Translation Project (DDTP)
  - Links to *screenshots*
  - DEHS (since 2 days 😊)

- Information updated via cron jobs from different public sources
- Also Ubuntu package information available but not relevant in Blends context
Content of UDD

- PostgreSQL database containing all structured information about various aspects of Debian packages including:
  - Control file information for binary and source packages
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  - Popularity contest
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Application of UDD in Blends

Andreas Tille

Debian Pure Blends
- Short introduction
- Blends features
- Web tools

Ultimate Debian Database
- Short introduction
- Advantages of using UDD for Blends

Future
- Planned features for Blends
- TODO
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DDTP was injected into UDD to speed up gathering description translations drastically

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More QA overviews

- Making use of new DEHS feature in UDD
- Lintian report overview
- Adding Ubuntu bugs
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Build metapackages based on UDD information

Thus enabling architecture=any metapackages

Include tasks file information into UDD
Make `blends-dev` use UDD

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Further enhancements (DEHS, lintian)

- Rewrite `blends-dev` to use UDD
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- Try to bring back external projects to Debian by providing attractive tools
Try to establish technique

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This talk can be found at

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

Andreas Tille <tille@debian.org>