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Debian/Ubuntu : different cultures

- Debian : very strong emphasis on quality
  - "We release when it’s ready"
  - Many DDs won’t compromise on this

- Packages owners : individuals or teams
  - We can afford it
    - About 600 active developers
    - Many of them experts in their fields
\textbf{Debian/Ubuntu : different cultures (2)}

- **Release Critical (RC) bugs**
  - Prevent packages from being part of a release
  - Everybody is welcomed to fix them
    - Non-Maintainer Uploads

- **Infrastructure : no Launchpad**
  - Aggregation of different services
    - Different languages, different data formats
  \[\Rightarrow\] Focus on interfaces between services
Debian QA team

- **Goal**: Improve the quality of Debian as a whole
- Not really a team (no membership), more a central place to discuss and work on QA stuff
- **IRC**: #debian-qa@irc.debian.org (OFTC)
- **Mailing list**: debian-qa@lists.debian.org
QA team : Tasks

- Maintain infrastructure
- Run archive-wide checks and mass bug filings
- Take care of the dirty areas of Debian
Maintain infrastructure
Overview of nmap source package

**General information**
- **Latest version:** 4.68-1
- **Maintainer:** LaMont Jones
- **Conforms to:** 3.7.2.2
- **Priority:** extra
- **Section:** net
- **VCS:** Git

**Available versions**
- **Oldstable:** 4.11-1
- **Stable:** 4.62-1
- **Testing:** 4.68-1
- **Unstable:** 4.68-1

**Source package**
- **Files:** .dsc .org .diff

**Binary packages**
- **nmtp (27 bases: 0.12.9.6)**

**Todo**
- Lintian reports 8 warnings about this package. You should make the package lintian clean getting rid of them.
- mentors.debian.net has version 4.76-1 of this package, you should consider sponsoring its upload.
- The package should be updated to follow the last version of Debian Policy (Standards-Version 3.8.2 instead of 3.7.2.2).
- The BTS contains patches fixing 1 bug, consider including or untagging it.

**Latest news**
- [2009-02-16] nmap 4.68-1 MIGRATED to testing (Britney)
- [2008-08-01] Accepted 4.68-1 in unstable (low) (LaMont Jones)
- [2008-06-27] nmap 4.62-1 MIGRATED to testing (Britney)
- [2008-08-14] Accepted 4.62-1 in unstable (low) (LaMont Jones)
- [2008-04-25] nmap 4.53-3 MIGRATED to testing (Britney)
- [2008-04-04] Accepted 4.53-3 in unstable (low) (LaMont Jones)

**Bugs count**
- **All bugs (graph):** 29 (32)
- **RC bugs:** 0
- **M&B bugs:** 13 (14)
- **M&S bugs:** 12
- **F&P bugs:** 4 (6)

**PTS subscription**
- **Subscribers count:** 5

**Other links**
- Changelog / Copyright
- Build: logs, more, exp, ports
- Lintian report (0.8)
- Popcon stats

**Ubuntu**
- Version: 4.76-0ubuntu4
- Patch for version 4.76-0ubuntu4
- 13 open bugs

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Source package-centric view

[http://packages.qa.debian.org/package](http://packages.qa.debian.org/package)
## Developer Packages Overview (DDPO)

### Packages overview for Lucas Nussbaum <lucas@lucas-nussbaum.net>

<table>
<thead>
<tr>
<th>Source Name</th>
<th>Bugs</th>
<th>Version</th>
<th>Ubuntu</th>
<th>Excuses</th>
<th>Binary Package</th>
<th>Buildd</th>
<th>Debcheck</th>
<th>St</th>
<th>Tq</th>
<th>Un</th>
<th>Popcon</th>
<th>Watch</th>
<th>Unstable</th>
<th>Exp</th>
<th>Section Priority</th>
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<td>developers-reference†</td>
<td>65 (62)</td>
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</tbody>
</table>
| mpich2†          | 2        | 1.2.1-rel1.1|        |        | 1.2.1-ubuntu1 1
bug | Excuses | More | 1234 | Buildd | More | - | Un | 24 | More | 1.2rc3
Details | - | devel extra |
| PTS Pool         |          |            |        |         |                |        |           |    |    |    |        |       |           |     |                  |
| ruby-defaults†   | 8        | 1.8.2-1     | 4.2    | -       | 4.2            | -      | 124557   |    |    |    |        |       |           |     | ruby optional   |
| PTS Pool         |          |            |        |         |                |        |           |    |    |    |        |       |           |     |                  |
| ruby-_taglib†    | 1        | 1.1.2       | 1.1.7  | -       | 1.1.7          | -      | -         |    |    |    |        |       |           |     | ruby optional   |
| PTS Pool         |          |            |        |         |                |        |           |    |    |    |        |       |           |     |                  |
| taktuk†          | -        | 3.6.1-1     | 3.6.3-1| -       | 3.6.3-1        | -      | 123      |    |    |    |        |       |           |     | net optional    |
| PTS Pool         |          |            |        |         |                |        |           |    |    |    |        |       |           |     |                  |
| websafe†         | 13       | 1.9.0-1     | 1.9.0-4| -       | 1.9.0-4        | -      | 1        |    |    |    |        |       |           |     | web optional    |
| PTS Pool         |          |            |        |         |                |        |           |    |    |    |        |       |           |     |                  |

### Developer-centric view

http://qa.debian.org/developer.php
Ultimate Debian Database (UDD)

- Many different data sources and formats
- Idea: gather everything into a single SQL DB
- Combine that data
  ⇒ Quality Assurance
  ⇒ "Cool facts"

Debian Sources and Packages, bugs, popcon, testing migrations, upload history, orphaned packages, carnivore, lintian, debtags, translations, NEW queue, screenshots, DEHS, ldap, wanna-build, removals, Ubuntu Sources and Packages, Ubuntu bugs, Ubuntu popcon

http://udd.debian.org/
http://wiki.debian.org/UDD
Archive-wide checks and MBF

- **Archive rebuilds**: detect packages that FTBFS
  - Often finds toolchain bugs
  - Ran every 2-3 weeks, scripts to analyze failures

- **Piuparts**: package installation, upgrade and removal testing
  - Developers don’t run it
  - Archive-wide setups at http://piuparts.debian.org

- **Lintian** package checker
  - Can be run locally by the developer
  - Laboratory mode at http://lintian.debian.org
  - Packages now rejected at upload time for some errors
Taking care of the dirty areas of Debian

- Packages without maintainers
  - Already orphaned: do minimalistic maintenance
  - Not yet orphaned: find them, orphan or remove them
    - Bapase (based on UDD): scoring system to find neglected packages

- Inactive maintainers
  - Missing In Action (MIA) team
  - Find them, track them, orphan their packages
  - Idea: empower people who want to do the work
Conclusion

Debian Quality Assurance:
- Mosty archive quality work
- Generally, we don’t focus on specific packages
- No bug triaging, etc: left to maintainers
- Outside of archive-wide checks, not much bug filings
  - We rely on users to file bugs