Stay home . . . and contribute to Debian Med

Andreas Tille

Debian

Online, 29. August 2020
What is Debian Med?

COVID-19 hackathons

Single contributions to the first hackathon

Summary
Back in 2001 at DebConf 1
the first talk about the concept was prepared
Stay home ... and contribute to Debian Med
Role of Blends to attract specific users
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Role of Blends to attract specific users

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Stay home . . . and contribute to Debian Med
Med-bio task of Debian Med

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Stay home … and contribute to Debian Med
Packages in selected tasks of Debian Med

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Stay home . . . and contribute to Debian Med
Maintainer per package relation in Debian Med in today
Debian Med has attracted one developer per year

According to a *questionnaire* in Wiki

- Debian Med has 42 DDs+DMs (not all active any more)
- 20 DDs *because* Debian Med exists;
  4 DDs before Debian Med started
- 10 out of the 20 above extended their activity to other fields in Debian
- 14 out of the 20 above are active in Debian Med
Debian Med has attracted one developer per year

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Not all tasks are appropriately covered

- **Bioinformatics**: very good
- Medical imaging: good
- Medical practice: there is something (gnumed, just lost freemedforms)
- Hospitals: close to nothing (fis-gtm)
  
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Graphing the effect of COVID-19 hackathon

- Some graphs from team metrics based on weekly data
- Please note: R packages missing inside the graph since these are maintained in R packaging team
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Committers to Debian Med packages per week

Date

Shaded region signifies last six months before Alioth to Salsa migration

Events
- Release
- Hackathon
- Sprint

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Commits to Debian Med packages per week

Shaded region signifies last six months before Alioth to Salsa migration
Uploading of Debian Med packages per week

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Shaded region signifies last six months before Alioth to Salsa migration.
Uploads of Debian Med packages per week

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Andreas Tille (Debian)
Persons posting to debian-med@lists.debian.org

Authors sending mails to debian-med@lists.debian.org

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Events

Release
Hackathon
Sprint

Mails sent to debian-med@lists.debian.org

Date

2002 (Jan)
2002 (Jul)
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2017 (Jan)
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2018 (Jan)
2018 (Jul)
2019 (Jan)
2019 (Jul)
2020 (Jan)
2020 (Jul)

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Communication

- Daily jitsy meeting
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Amazing ftpmaster support in first hackathon

- Tons of kudos to ftpmaster for the great support!
- Many packages in NEW queue were processed in less than 24 h!
- This was the most fun in my whole 22 year of Debian developer life
- It is extremely motivating to get such support
- To quote some understatement of Scott Kitterman:
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Being tolerant to let Andreas Tille work all day even on weekends and holidays. Thank you Katrin!
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- Worked on package *arvados*
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Autopkgtests for packages `python-pyani, python-tinyalign`
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- recan
- seirsplus
- idseq-bench
- insillicoseq
- smart-open
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Packages continued later
- benten
- cwlformat
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Packages in progress: r-bioc-rcpi, r-cran-covid19, r-bioc-motifstack

Backports: augment, chip-seq

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Teaching
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  - `r-cran-locfit → free`: enables prominent reverse dependencies in main
  - `gmap → free`

- **Teaching**
- **openmm** *(High-performance molecular simulation library)*
- **macromoleculebuilder** *(only protein homology modelling tool in Debian)*
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Stay home ... and contribute to Debian Med
Online, 29. August 2020 29 / 50
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List of possibly COVID-19 relevant packages

- General QA work to spot issues in relevant Debian Med packages
- For instance spot non-functional watch files (like python-deeptools) by comparing Debian and upstream version
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- *r-cran-isoband*

Bug fixing
- #942469 of *r-cran-rmarkdown*,
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- #954813 of *r-cran-rlang*,
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- Helped moving forward licensing discussion with Tandem Repeats Finder upstream
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#956136: `nanopolish`: FTBFS (undefined references)
Hamid - friend from DebConf19

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- Communication and reports to **COVID-19 Biohackathon** of world wide bioinformatics projects where Debian Med participated in
- Created *Git repository on Salsa* as well as *Wiki pages*
- Assembled the *final report* about the hackathon
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- Introducing, guiding and sponsoring newcomers.
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- Opening the option to package *tensorflow* which enables lots of other COVID-19 relevant packages
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Packages `liborthancframework-dev` and `liborthancframework1` are now pending in the NEW queue

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- Requests transition from packaging towards executing these workflows and provide tutorials
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- It is even more fun to work in this project
- Everybody is kindly invited to share this fun with us and join the project
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- It's even more fun than before to see all those skilled developers doing stuff I could never approach myself
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This talk is available at
http://people.debian.org/~tille/talks/

Andreas Tille <tille@debian.org>