

Debian Med

Andreas Tille

What is Debian Me

Realisation

for service providers

Debian Med

Integrated software environment for all medical purposes based on Debian GNU/Linux

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Debian

OSWC, Malaga 2008

Structure

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What is Debian Me

Realisation

for service providers

What is Debian Med

2 Realisation

Structure

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- Free Software in medicine not widely established yet
- Some subareas well covered
- Medical data processing more than just practice and patient management
- Preclinical research of microbiology and genetics as well as medical imaging
- --> Pool of existing free medical software

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What is Debian Med

Realisation

- Focus on medicine not computers
- Unreasonable effort to install upstream programs
- No interest in administration
- Interest reduced onto free medical software
- Easy usage
- Security and confidence
- Native-language documentation and interface



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What is Debian Med

Realisation

- Debian > 20000 packages
- Focus on medical subset of those packages
- Packaging and integrating other medical software
- Easy installation and configuration
- Maintaining a general infrastructure for medical users
- General overview about free medical software
- Propagate the idea of Free Software in medicine
- Completely integrated into Debian no fork



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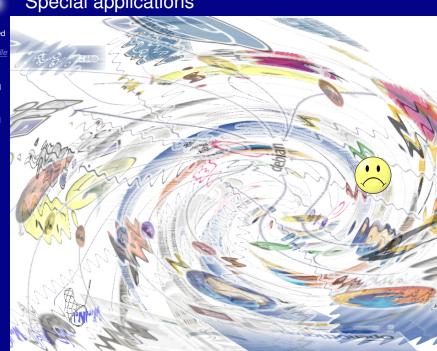
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Special applications

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Special applications

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Basic ideas

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Realisation

Debian Me for service providers

Do not make a separate distribution but make Debian fit for medical care

No development of medical software - just smooth integration of third-party software

Debian-Developer = missing link between upstream author and user



Basic ideas

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- Developed by more than 1000 volunteers
- Flexible, not bound on commercial interest
- Strict rules (policy) glue all things together
- Common interest of each individual developer:
 Get the best operating system for himself.
- Some developers work in the field of medicine
- In contrast to employees of companies every single
 Debian developer has the freedom and ability to realize his vision
- Every developer is able to influence the development of Debian - he just has to do it.

Do-O-Cracy = "The doer decides"

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Debian - adaptable for any purpose?

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Packages for Microbiology

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BioPython

Python tools for development of applications for computational molecular biology which address the needs of current and future work in bioinformatics.

BioSQUID Library of C code functions for sequence analysis including a number of small utility programs to convert, show statistics, manipulate and do other functions on sequence files.

<u>BLAST2</u> Official NCBI version #2 of this standard program for nucleotide and protein sequence alignment.

more than 60 other packages

Packages for medical imaging

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CTSim Interactive computed tomography simulator.
CTSim has very educational trace modes for viewing the data collection simulation as well as the reconstruction.

<u>DCMTK</u> DICOM-toolkit: collection of libraries and applications implementing large parts the DICOM standard for medical image communication. It includes software for examining, constructing and converting DICOM image files, . . .

more than 20 other packages



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What is Debian Me

Realisation

Debian Me for service providers

- Practice management with focus on medical documentation
- Internationalised
- Currently only client packaged
- Server following soon
- There are many alternative projects → dissipation
- GNUmed seems quite suitable for Debian Med
- Others might follow



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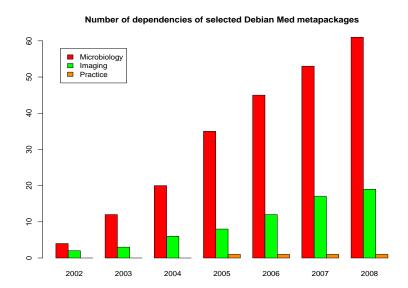
Selected metapackages of Debian Med

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Top 10 posters on

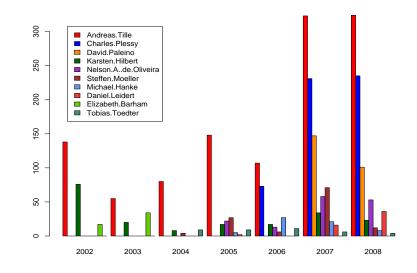
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- Debian Med is a practice management system itself
- Is only interesting for doctors
- Not interesting for micro-biologists / medical physicists
- Should be installed by health care professionals
- Debian-Maintainer are programming software for doctors
- Debian Med does not need supporter
- Can be used on SuSE Linux
- Medical software can not be free
- Debian Med is just ready
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- Need for commercial support
- Needs specific knowledge of medicine computer scientists
- Business model: Service providing for medical Free Software

Software free of charge



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- Needed: High quality Open Source applications for medicine to be integrated into Debian
- Further increase of interest of developers and users and getting them involved in the project
- Base for service providers in health care
- Turning Debian into the distribution of choice for people working in the field of medicine because there is best support for free medical software

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