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cdd-dev

[Andreas Tille](#)

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Building CDD meta packages easily

[Andreas Tille](#)

[Extremadura Workshop](#)

Merida, Oct 18, 2007

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Increasing menus

- Main part of the work of a distributor

- Contains

• Executable programs

• Configuration files

• Documentation files (man pages, info pages, etc.)

• Data files

• Scripts to handle the package (scripts in /usr/share/packaging)

- Enables easy handling

• Installation and removal of software is simplified

• Configuration is simplified

• Distribution of software is simplified (multiple versions, multiple architectures, multiple releases)

• Redundant code is removed

• Software can be easily updated (via apt-get update, apt-get upgrade, etc.)

Problem: Increasing number of packages

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 - Relations to other packages
- More than just an archive of files
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 - Easy handling of security updates
- Basis of modern GNU/Linux distributions

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- "Depends" for necessary packages

- "Provides" for optional packages

- 2 Menu entries (recommended)

- "Depends" for menu packages

- "Provides" for menu packages

- 3 Adapted configuration (optional)

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↳ *cdd-dev* configuration

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tasksel = first user interface

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/usr/share/tasksel/debian-CDD-tasks.desc

tasksel = first user interface

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- User with role <*cdd*> gets extra user menu



- User with role <*cdd*> is provided with additional menu
- Do not bother other users with those additional menus
- Implemented in current Debian-Med packages
- Role system is implemented by flexible plugins

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Control file

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$ cat tasks/README
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*For each meta package this skeleton of a
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Working example: *apt-get source debian-med*

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```
$ cp -a /usr/share/doc/cdd-dev/examples/debian .
$ cat debian/README
$ edit debian/control.stub
change the variables of the example
```

debian/rules includes common rules file

debian/TASK.{install,manpages,...} if needed

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- Examine *sources.list* file matching distribution that is mentioned in *debian/changelog* if not explicitly given via *-s* option
- If no *sources.list* file is provided by package source files in */etc/cdd/* are used as default
- Each task file is added to *debian/control* where the *Depends:* and *Recommends:* from the task file are added as *Recommends:*
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- Can be called via *make* (use the Makefile */usr/share/doc/cdd-dev/examples/Makefile*)

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Meta package *CDD-config*

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Optional

```
$ cp -a /usr/share/doc/cdd-dev/examples/config .
$ cat config/README
$ edit config/{conf,control,config.1}
  change variable _CDD_
```

Initialisation of role based menu system

http://cdd-dev.schubert.it/branches/cdd-dev-0.10.0/doc/CDD-config.html

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Initialisation of role based menu system

- All meta packages will depend on the config package

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Initialisation of role based menu system

- All meta packages will depend on the config package
- No configuration needed

?

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Initialisation of role based menu system

- All meta packages will depend on the config package
- Default configuration
- Changeable configuration

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Initialisation of role based menu system

- All meta packages will depend on the config package
- The config package will contain:
 - Configuration files for each role
 - A script to generate the menu

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Initialisation of role based menu system

- All meta packages will depend on the config package
- Installs auto-apt helper
- Shows up in menu

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Initialisation of role based menu system

- All meta packages will depend on the config package
 - *Install*
 - *Depends*
 - *Strongly suggested*

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- Installs *auto-apt* helper
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Optional

```
$ cp -a /usr/share/doc/cdd-dev/examples/menu .
$ cat menu/README
$ cat menu/task1/README
$ edit menu/task1/dep1.menu
$ edit menu/task1/dep2.txt
$ edit menu/task1/dep3.html
```

Create valid menu entries with sensible descriptions

http://www.debian.org/doc/manuals/cdd-dev/html/ch05.html

User menu entries for every dependencies - at least pointing to documentation

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$ cat menu/task1/README
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$ edit menu/task1/dep2.txt
$ edit menu/task1/dep3.html
```

Create valid menu entries with sensible descriptions

Find task names

```
$ cp menu/task1 menu/<meta package name>
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$ cat menu/task1/README
$ edit menu/task1/dep1.menu
$ edit menu/task1/dep2.txt
$ edit menu/task1/dep3.html
```

Create valid menu entries with sensible descriptions

Find task names

```
$ cp menu/task1 menu/<meta package name>
```

User menu entries for every dependencies - at least pointing to documentation

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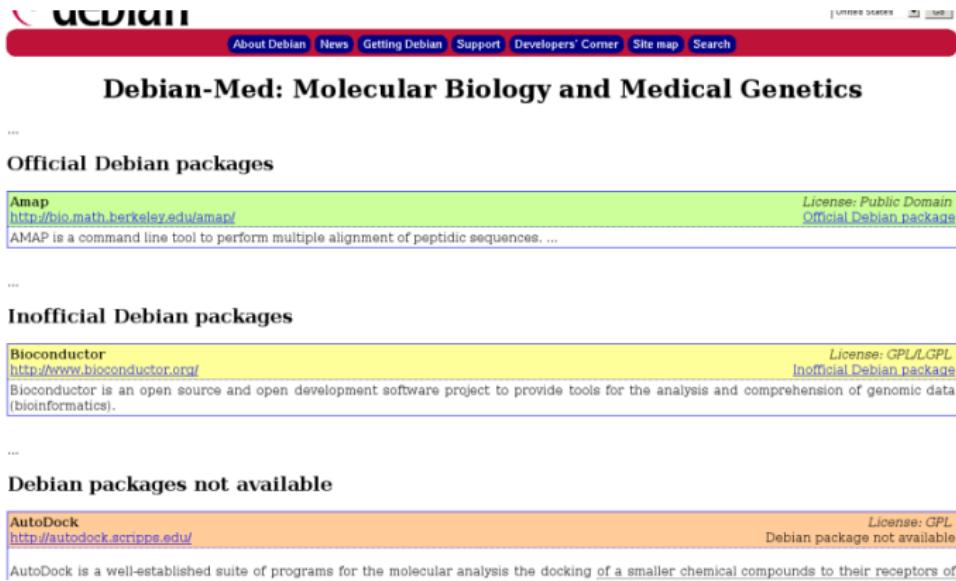
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The screenshot shows a web page titled "Debian-Med: Molecular Biology and Medical Genetics". The page has a red header bar with links to "About Debian", "News", "Getting Debian", "Support", "Developers' Corner", "Site map", and "Search". Below the header, there are three main sections: "Official Debian packages", "Inofficial Debian packages", and "Debian packages not available". Each section contains a single package entry with its name, URL, license information, and a brief description.

Section	Name	URL	License	Description
Official Debian packages	Amap	http://bio.math.berkeley.edu/amap/	Public Domain	AMAP is a command line tool to perform multiple alignment of peptidic sequences. ...
	Bioconductor	http://www.bioconductor.org/	GPL/LGPL	Bioconductor is an open source and open development software project to provide tools for the analysis and comprehension of genomic data (bioinformatics).
Inofficial Debian packages	AutoDock	http://autodock.scripps.edu/	GPL	AutoDock is a well-established suite of programs for the molecular analysis the docking of a smaller chemical compounds to their receptors of.
Debian packages not available				

<http://www.debian.org-devel/debian-med/microbio>

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Adding not yet integrated software

Depends: dialign-t

Homepage: <http://dialign-t.gobics.de/>

License: LGPL

WNPP: [445983](#) (optional)

Pkg-URL: URL to unofficial package (optional)

Developer: Who is responsible (optional) ??

Pkg-Description: *multiple sequence alignment*

DIALIGN-T is a command line tool to perform multiple alignment of protein or DNA sequences. It is a complete reimplementation

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- Depends/Recommends **are turned into Suggests for non existent packages so there is no harm in listing non existent packages**
- Once the package exists the meta package works automatically - at least for users who regard Suggests
- No update of meta packages required once new packages become available
- Next version of meta packages will regard the new package automatically - maintainer will not forget new packages
- Users of unofficial packages also profit
- No drawbacks for packages that do not exist at all

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- Current syntax allows arbitrary number of Depends per line
- Weak syntax
- Alternative “WNPP”-task

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261293	hmmer: New upstream release (v2.3.2)	wishlist
imagej (4)		
439247	imagej: program won't start	grave
439252	imagej: man page needs much work	normal
439627	imagej: Ambiguous statement in the copyright file.	serious
441274	imagej: Proposal for a new package description	wishlist
kalign (1)		
446047	kalign: Please enable bash-completion	wishlist
loki (1)		
409370	loki: missing 64-bit executable	normal
medcon (1)		
401529	medcon: Segmentation fault!	serious
mummer (1)		
444343	mummer: needs build dependency on libc headers and C++ compiler	important
muscle (2)		
285398	muscle: package name conflicts with existing M.U.S.C.L.E. project	wishlist
427500	muscle: not handling nostrip build option (policy 10.1)	wishlist

<http://debian-med.alioth.debian.org/bugs.php>

Code: /var/lib/gforge/chroot/home/groups/debian-med/scripts/update-bugs

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- Lacking documentation and finalized API
- Using a common wrapper for CDDs might simplify process
- Perhaps just a quick *debian-live* intro in *cdd-doc*

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- User menus

3 Further ideas

- Web tools
- Live CD
- FAI
- DebTags
- Increasing menus

Workshop
cdd-dev

[Andreas Tille](#)

Overview
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- Enable general CDD menu instead of user menu

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The background image shows a vast, calm body of water in the foreground, with a range of snow-capped mountains in the middle ground. The sky is filled with dramatic, wispy clouds colored in shades of orange, red, and yellow, suggesting either a sunrise or sunset. The overall atmosphere is serene and majestic.

This talk can be found at

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

Andreas Tille <tille@debian.org>