

Debian-
Science

[Andreas Tille](#)

Current status

Possibilities

Realisation

Science tools

Astronomy

Biology

Chemistry

Electronics

Geography

Mathematics

Physics

Others

Debian-Science

A Custom Debian Distribution for sciences

[Andreas Tille](#)

LSM Amiens, 12.7.2007

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Current status

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Better science support in CDD

3

Plan for Realisation

- Science tools
- Astronomy
- Biology
- Chemistry
- Electronics
- Geography
- Mathematics
- Physics
- Others

1 Current status

2 Better science support in CDD

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2 Better science support in CDD

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Who is willing to work



Existing scientific CDDs

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Debian-Med Strong focus on Microbiology

**Debian-GIS Geographical Information Systems (especially
GRASS)**

DebiChem Chemistry

Existing scientific CDDs

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Why not more?

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- Idea of CDD needs some time to penetrate
- Advantages are not widely known
- Nobody likes to do the grunt work

Why not more?

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- Does not really focus on CDD and tools
- Slack discussion of scientific issues in Debian

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Categorisation

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- Debram

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- CDD provides straightforward access to package pool
- No need for searching interesting packages
- Engagement for packaging more scientific Free Software
- Further addons like user menus, preconfiguration, ...

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Strategies for meta-package bundling

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- Several packages covering different sciences
 - How fine grained separating sciences?
 - Separate meta-packages for development packages
 - Separate meta-packages for documentation packages

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- science-astronomie

- science-biology
- science-chemistry
- science-geography
- science-math
- science-physics
- ...

Science specific meta-packages

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- science-visualisation (-plotting)
- science-statistics (-data_processing)
- science-diagrams
- science-typesetting (-publishing)
- science-bibliography

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Common science utilities

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- Decide which items are really supported by applications in Debian
- Sort out those where there is no specific Free Software

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Others

visualization gnuplot, labplot, mayavi etc.,

data processing octave, R

diagrams dia, xfig

publishing texlive-publishers, texlive-science, bibtex, ...

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Take over dependencies from *education-astronomy*

Recommends: gpredict, kstars, ssystem, starplot,
stellarium, xplanet, xplanet-images

Suggests: celestia, gstar, spacechart, stars, sunclock,
xephem, xtide, xtide-data

Fields of science: Astronomy

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Missing in *education-astronomy*

Recommends: astronomical-almanac, lightspeed,
openuniverse

Suggests: cl-geodesics

Fields of science: Astronomy

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Take over dependencies from *med-bio*

Depends: adun.app, amap-align, biosquid, blast2,
boxshade, dialign, fastdnaml, fastlink, garlic,
gdpc, gff2aplot, gff2ps, ghemical, gromacs,
hmmer, kalign, loki, melting, mipe, mummer,
muscle, ncbi-epcr, ncbi-tools-bin,
ncbi-tools-x11, njplot, perlprimer, poa, primer3,
probcons, proda, pymol, r-cran-qtl, rasmol,
readseq, seaview, sibsim4, sigma-align, sim4,
t-coffee, tigr-glimmer, tree-puzzle |
tree-ppuzzle, treeviewx, wise

Recommends: textopo

Suggests: arb, bugsx, clustalw, clustalw-mpi, clustalx,
molphy, mozilla-biofox, phylib, treetool

Fields of science: Biology

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Depends: bioperl, libbio-ruby, libncbi6-dev, mcl,
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Recommends: libvibrant6-dev

Suggests: biomode, r-base-core

Fields of science: Biology (continued)

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Suggested *science-genomics??*

Fields of science: Chemistry

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Take over dependencies from *education-chemistry*

Recommends: chemtool, easychem, gchempaint, gdis,
ghemical, gperiodic, kalzium, pymol, viewmol,
xdrawchem

Suggests: lum, mek, rasmol, xem, xpovchem

Fields of science: Chemistry

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Tagged by *debram*:

Recommends: apbs, libmopac7-0, mpqc, psi3, gromacs |
gromacs-lam | gromacs-mpich, easychem,
gdpc, polyxmass

Suggests: gdpc-examples

Fields of science: Chemistry

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science-chemistry-dev: libmopac7-dev, gromacs-dev

science-chemistry-doc: gromacs-doc, polyxmass-doc

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Take over dependencies from *education-electronics*

Recommends: gpsim, gpsim-logic, kicad, kicad-doc-de, kicad-doc-en, kicad-doc-es, kicad-doc-fr, ksimus, ksimus-boolean, ksimus-datarecorder, ksimus-floatingpoint, oregano, qucs

Suggests: eagle, electric, freehdl, gpsim-lded, gtkwave, pcb, vipec, xcircuit

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Others

Take over dependencies from *education-electronics*

Recommends: gpsim, gpsim-logic, kicad, kicad-doc-de, kicad-doc-en, kicad-doc-es, kicad-doc-fr, ksimus, ksimus-boolean, ksimus-datarecorder, ksimus-floatingpoint, oregano, qucs

Suggests: eagle, electric, freehdl, gpsim-lded, gtkwave, pcb, vipec, xcircuit

Tagged by *debram*:

Recommends: atlc, cassbeam, drawtiming, nec, xnecview, geda, libgeda20, geda-gattrib, geda-gsymcheck, geda-symbols, geda-utils, gnucap, transcalc, necpp, xsmc-calc, mpb, vipec

Suggests: atlc-examples, geda-examples

Fields of science: Electronics

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Andreas Tille

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Others

Take over dependencies from *education-electronics*

Recommends: gpsim, gpsim-logic, kicad, kicad-doc-de, kicad-doc-en, kicad-doc-es, kicad-doc-fr, ksimus, ksimus-boolean, ksimus-datarecorder, ksimus-floatingpoint, oregano, qucs

Suggests: eagle, electric, freehdl, gpsim-lded, gtkwave, pcb, vipec, xcircuit

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Suggests: atlc-examples, geda-examples

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Suggests: atlc-examples, geda-examples

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science-electronics-dev: confluence, libgeda-dev,
libnecpp-dev, verilog, vbpp, vbs

science-electronics-doc: geda-doc, mpb-doc

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science-electronics-dev: confluence, libgeda-dev,
libnecpp-dev, verilog, vbpp, vbs

science-electronics-doc: geda-doc, mpb-doc

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science-electronics-dev: confluence, libgeda-dev,
libnecpp-dev, verilog, vbpp, vbs

science-electronics-doc: geda-doc, mpb-doc

Connection to *science-physics*??

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Take over dependencies from *education-geography*

Suggests: grass

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Take over dependencies from *education-geography*

Suggests: grass

Missing in *education-geography*

Recommends: drawmap, gdal-bin, kgeography,
libgeo-coordinates-utm-perl,
libgeography-nationalgrid-perl,
libgeo-helmerttransform-perl,
libgeo-metar-perl, libgeo-postcode-perl,
libgeos2c2a, libgeos-c1, ogdi-bin, qgis,
qgis-plugin-grass, postgis, proj, thuban

Suggests: geotoad, gpsbabel, libmapnik1d, libogdi3.2,
libterra1c2a, r-cran-mapdata, r-cran-maps

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Take over dependencies from *education-geography*

Suggests: grass

Missing in *education-geography*

Recommends: drawmap, gdal-bin, kgeography,
libgeo-coordinates-utm-perl,
libgeography-nationalgrid-perl,
libgeo-helmerttransform-perl,
libgeo-metar-perl, libgeo-postcode-perl,
libgeos2c2a, libgeos-c1, ogdi-bin, qgis,
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Suggests: geotoad, gpsbabel, libmapnik1d, libogdi3.2,
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science-geography-dev: grass-dev, libgeos-dev,
libmapnik-dev, libogdi3.2-dev, libpostgis-java,
libqgis0-dev, libterra1-dev, mapnik-plugins,
mapnik-utils, python-gdal, python-mapnik

science-geography-doc: grass-doc, libgeos-doc,
libterra1-doc, proj-ps-doc

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libqgis0-dev, libterra1-dev, mapnik-plugins,
mapnik-utils, python-gdal, python-mapnik

science-geography-doc: grass-doc, libgeos-doc,
libterra1-doc, proj-ps-doc

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Suggested subgroups:

- science-math-arithmetic
- science-math-geometry
- science-math-numerics
- science-math-statistics
- science-math-misc

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Suggested subgroups:

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- science-math-statistics
- science-math-misc

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Suggested subgroups:

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- science-math-geometry
- science-math-numerics
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- science-math-misc

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- science-math-numerics
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- science-math-misc

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Take over dependencies from *education-mathematics*

Recommends: drgeo, geg, gnuplot, grace, kig, kmplot,
kpercentage, kseg, mathwar, maxima, octave,
pari-gp, xabacus, xaos, xeukleides, yacas

Suggests: abakus, drgenius, k3dsurf, kalgebra, kbruch,
kgeo, kregexpeditor, magicsquare, qliss3d,
scilab, xarith

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Take over dependencies from *education-mathematics*

Recommends: drgeo, geg, gnuplot, grace, kig, kmplot,
kpercentage, kseg, mathwar, maxima, octave,
pari-gp, xabacus, xaos, xeukleides, yacas

Suggests: abakus, drgenius, k3dsurf, kalgebra, kbruch,
kgeo, kregexpeditor, magicsquare, qliss3d,
scilab, xarith

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Take over dependencies from *education-mathematics*

Recommends: drgeo, geg, gnuplot, grace, kig, kmplot,
kpercentage, kseg, mathwar, maxima, octave,
pari-gp, xabacus, xaos, xeukleides, yacas

Suggests: abakus, drgenius, k3dsurf, kalgebra, kbruch,
kgeo, kregexpeditor, magicsquare, qliss3d,
scilab, xarith

Tagged by *debram* or *debtags*:

Recommends: dome, freefem3d, geomview, gmp-ecl,
libjts-java, qhull-bin, tela

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Suggested subgroups:

- science-physics-geo
- science-physics-fluid-dynamics
- science-physics-mechanical
- science-physics-particle
- ...

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Suggested subgroups:

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- science-physics-mechanical
- science-physics-particle
- ...

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Suggested subgroups:

- science-physics-geo
- science-physics-fluid-dynamics
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Suggested subgroups:

- science-physics-geo
- science-physics-fluid-dynamics
- science-physics-mechanical
- science-physics-particle



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Suggested subgroups:

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- science-physics-fluid-dynamics
- science-physics-mechanical
- science-physics-particle
- ...

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Take over dependencies from *education-physics*

Suggests: kturtle, lum, mek, xem, xoscope

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Others

Take over dependencies from *education-physics*

Suggests: kturtle, lum, mek, xem, xoscope

Take over dependencies from *med-physics*

Depends: octave | octave2.1, paw++, r-base | r-base-core

Recommends: paw

Suggests: paw-demos

Fields of science: Physics (continued)

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Take over dependencies from *education-physics*

Suggests: kturtle, lum, mek, xem, xoscope

Take over dependencies from *med-physics*

Depends: octave | octave2.1, paw++, r-base | r-base-core

Recommends: paw

Suggests: paw-demos

Fields of science: Physics (continued)

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Take over dependencies from *education-physics*

Suggests: kturtle, lum, mek, xem, xoscope

Take over dependencies from *med-physics*

Depends: octave | octave2.1, paw++, r-base | r-base-core

Recommends: paw

Suggests: paw-demos

Fields of science: Physics (continued)

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Take over dependencies from *education-physics*

Suggests: kturtle, lum, mek, xem, xoscope

Take over dependencies from *med-physics*

Depends: octave | octave2.1, paw++, r-base | r-base-core

Recommends: paw

Suggests: paw-demos

Tagged by *debram* or *debtags*:

Recommends: cernlib, gausssum, libcojets2, libeurodec1, libherwig59-2, libisajet758-2, liblhapdf0, libpdflib804, libphptools2, lightspeed, mpb | mpb-mpi, python-pyode, tessa | tessa-mpi, tochnog, units-filter

Suggests: cernlib-extra, libphptools2, libalps1, libalps-bin, libalps-heap1 | libalps-light1 | libalps-mpi1 | libalps-pvm1, revtex

Fields of science: Physics (continued)

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Recommends: paw

Suggests: paw-demos

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science-physics-dev: libalps1-dev, libalps-heap1-dev |
libalps-light1-dev | libalps-mpi1-dev |
libalps-pvm1-dev, libcojets2-dev,
libeurodec1-dev, libherwig59-2-dev,
libpdflib804-dev, libisajet758-2-dev,
libphtools2-dev

science-physics-doc: geant321-doc, tochnog-doc,
mpb-doc, python-pyode-doc

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science-physics-doc: geant321-doc, tochnog-doc, mpb-doc, python-pyode-doc

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- science-agricultural
- science-anthropology (same as archaeology?)
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- science-climatology
- science-economics
- science-hci
- science-linguistics
- science-pharmaceuticals (duty of Debian-Med)
- science-psychology (duty of Debian-Med)
- science-signal-processing
- science-sociology
- science-structural

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- science-signal-processing
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- science-structural

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.

This talk can be found at

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

Andreas Tille <tille@debian.org>