

# Application Software - Status

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    - Documentation
    - Migration
    - Installation
  - **Software:**
    - Scientific
    - Compiler
    - Internet & co.
  - **SLD4** goodies
  - **RDP** & FileSharing
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# SLD3/4 Status

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- **SLD3 and SLD4 are essentially complete & up-to-date, 32- and 64-bit**



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- Most of DL5 software ported to SLD3/4 + lots of new stuff
- KDE preconfigured
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- KDE preconfigured
- gnome is VERY problematic, try to avoid it
- few things don't work perfectly: check "known issues"
- If something is missing – or not working as expected:  
`mailto:linux@desy.de`



# Documentation



A screenshot of a SeaMonkey browser window displaying the website 'Scientific Linux at DESY'. The browser's address bar shows 'http://scientificlinux.desy.de/'. The website header includes the DESY logo and the text 'Deutsches Elektronen-Synchrotron in der Helmholtz-Gemeinschaft'. A navigation menu contains links for 'News', 'About DESY', 'Research', 'Work and Study', 'Info and Services', and 'Internal'. The main content area is titled 'SL Scientific Linux at DESY' and features a 'FAST NAVIGATOR' search box. The page content includes a 'Home SL' section, a 'Scientific Linux at DESY' introduction paragraph, a 'Scientific Linux (DESY) Status' section, and a list of recent updates with dates and titles such as 'Invitation to the 34th Linux User Meeting' and 'SLD4, the Scientific Linux -DESY- release 3 in 32/64 bit version is going now in Alpha-Phase !'. A left sidebar contains a table of contents with links to 'News', 'Hardware', 'Installation', 'Distributions', 'Services', 'FAQ', 'Known Issues', and 'IT-Intern'. The browser's status bar at the bottom shows the URL 'http://scientificlinux.desy.de/'.

... on [scientificlinux.desy.de](http://scientificlinux.desy.de)

# KDE Migration

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- DL5 and SLD config's are different
- Toggling between DL5 and SLD (KDE) sessions can be problematic
- OS specific layout helps (check FAQ on [scientificlinux.desy.de](http://scientificlinux.desy.de))



# KDE Migration



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- `.kde -> .@sys/.kde`
- `Desktop -> .@sys/Desktop`
- (same possibly for `KDesktop`, `.kde2`, `bin ...`)



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- `.kde -> .@sys/.kde`
- `Desktop -> .@sys/Desktop`
- (same possibly for `KDesktop`, `.kde2`, `bin` ...)
- make sure you have `.@sys/.kde` !
- need to create
  - `.i586_rhel30 .i586_rhel40`
  - `.amd64_rhel30 .amd64_rhel40`and subdirs (`.kde`, `Desktop` etc)
- semi-automatic script in preparation



# Installation scheme

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- rpm/yum based -> single version
  - ppm based (/opt/products) -> multiple versions  
(needs afs)
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# /opt/products vs. base installation



- minimize /opt/products installation
- Can't avoid it for multi-version-packages (e.g. root, gcc)
  - as few multi-version-packages as possible

## Installed Packages

	SLD3-32	SLD3-64	SLD4-32	SLD4-64	DL5	
System	901	871	1067	984	558	
Products	577	528	269	198	588	
Total	1478	1399	1326	1282	1146	6631

# Scientific Software - root



Software	Most recent	SLD3-32	SLD4-32	SLD3-64	SLD4-64	DL5
Root	5.12.00f	5.12.00e 3.05.07 3.10.03 4.00.08 4.02.00 4.04.02 5.08.00	5.12.00e 5.08.00	5.12.00e 4.00.08 4.02.00 4.03.02 5.08.00  32-bit 3.05.07 3.10.03 4.00.08 4.02.00 4.04.02 5.08.00	5.12.00e 5.08.00  32-bit 5.12.00 5.08.00	5.12.00e 3.02.07, 3.05.07, 3.10.02, 3.10.03, 4.00.04 4.00.06, 4.00.08, 4.02.00, 4.04.02, 5.08.00, 5.10.00, 5.10.00e, 5.11.02, 5.11.06, 5.12.00a .....
FFTW	3.1.2	3.1.1	3.1.1	3.1.1	3.1.1	3.1.1
MySQL	5.0.27	5.0.26	4.1.20	5.0.26	4.1.20	4.1.16
GSL	1.8	1.8	1.8	1.8	1.8	1.8

# Scientific Software



Software	Most recent	SLD3-32	SLD4-32	SLD3-64	SLD4-64	DL5
cernlib	2005	2005	2005	2005	2005	2003
clhep	2.0.3.1	2.0.3.1	2.0.3.1	2.0.3.1	2.0.3.1	2.0.2.2
geant4	8.1.p02	8.1.p02	8.1.p02	8.1.p02	8.1.p02	8.0.p01
gnuplot	4.0.0	4.1.0	4.1.0	4.1.0	4.1.0	4.1.0
gsl	1.8	1.8	1.8	1.8	1.8	1.8
Idl/envi	6.3/4.3	6.3/4.3	6.3/4.3	6.3/4.3	6.3/4.3	6.3/4.3
Maple	10	10	10	10	10	10
Mathematica	5.2	5.2	5.2	5.2	5.2	5.2
Matlab*	2006b	7.1	7.1	2006b	2006b	7.1

\* CD only. Installation of 2006b on SLD3/DL5 not possible (glibc)

# Compiler



Software	Most recent	SLD3-32	SLD4-32	SLD3-64	SLD4-64	DL5
gcc3	3.4.6	3.2.3 3.4.4 3.4.3 3.3.3 2.95.3	3.4.5	3.2.3 3.4.4 3.4.3 3.3.3 2.95.3	3.4.5	3.4.1 3.4.0 3.3.4 3.3.3 3.2.3 2.95.3
<b>gcc4</b>	4.1.1	-	4.0.2	-	4.0.2	-
NAG f95	5.1	5.1	5.1	5.1	5.1	5.0
PGI	6.2-5	6.2-5	6.2-5	6.2-5	6.2-5	6.2-5
eclipse	3.2.1	3.2	3.2	3.2	3.2	3.1.2
valgrind	3.2.1	3.2.0 2.1.1	3.2.0 2.2.0	3.2.0 2.1.1	3.2.0 2.2.0	3.2.0 1.9.4
subversion	1.4.2	1.3.2	1.3.2	1.3.2	1.3.2	1.1.4

# Internet & Co



Software	Most recent	SLD3-32	SLD4-32	SLD3-64	SLD4-64	DL5
Firefox	2.0 1.5.0.8	- 1.5.0.8	- 1.5.0.7/8	- 1.5.0.8	- 1.5.0.7/8	- -
Mozilla	1.7.18	1.7.13	-	1.7.13	-	1.7.13
Seamonkey	1.0.6	1.0.6	1.0.5/6	1.0.6	1.0.5/6	-
Thunderbird	1.5.0.8	1.5.0.8	1.5.0.7	1.5.0.8	1.5.0.7	-
pine	4.64	4.64 4.58	4.64	4.64 4.58	4.64	4.64 4.58

ppm installation.

# SLD4: more goodies

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## **System:**

- modern (almost)
- hotplug model (udev)
- inter-process communication (dbus)
- better [multimedia](#) support (sound)
- still not modern enough for cups

## **Software:**

- kde
  - gcc4
  - [evolution](#)
  - [filesharing with windows](#)
  - ...
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# Multimedia

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- SLD4 considerably better than SLD3 (e.g. sound)
- Most recent versions of flash, realplayer, acroread, java plugins
- mplayer: legal issues (reverse eng., css decryption, etc)
- kaffeine: crasher

... still working on it.

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# FileSharing (SLD4)

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- WebDav(s) – standard at cern (nautilus, konqueror, mounts)
  - sFTP – cygwin based, still experimental
  - RDP – export any fs under windows, experimental
  - nautilus – webdav(s) and windows shares .... SLD4 only !  
(prepare for memory upgrades)
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# Evolution (SLD4) – exchange calendar



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- SLD4 comes with functional evolution client (2.0.2)
  - pre-configuration setup available (soon)
  
  - Prepare for memory upgrades !
  - No chance to upgrade to newer versions !
  
  - Alternative (not for linux purists): outlook (w.i.p!)

# RDP – Windows on your Linux box

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```
rdesktop -a 16 -r disk:t="/afs/desy.de/myhome" -A \
-s"seamlessrdpshell.exe winword.exe \
\\\\tsclient\t\\mytext.word \
server.desy.de
```



# RDP – Windows on your Linux box

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## Pros

- Newest rdesktop client supports seamless RDP
  - Can export any linux fs to windows terminal server (incl. afs home)
  - Allows to run any application of the windows terminal server (ie, office, vs, ..., not xwin ;-))
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  - password less login ?
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- nice alternative for those who don't mind MS infections (or simply need it)
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