

Status of Scientific Linux at DESY

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31st Linux User Meeting

2005-08-24

A large, faint watermark of the DESY logo is visible in the background, featuring the word "DESY" in a large, light blue font and a stylized particle detector structure above it.

DESY



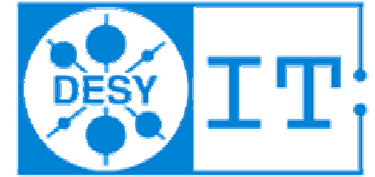
- Is a recompiled RHEL server with only the GPL code
- Is by design binary compatible with RHEL
- Comes with a five year support lifetime (still until October 2008)
- Is provided by FNAL and CERN
 - In cooperation with others, including DESY
- Is the agreed development platform for LHC GRID projects
- Is the upcoming Linux enterprise platform at DESY
 - As direct and compatible DL5 successor
 - In a number of new applications
 - Actively being rolled out at Zeuthen for months now
 - Going public in Hamburg today

The DESY Legacy



- Number of registered DESY Linux hosts in Hamburg: >2000
- Number of hosts receiving nightly updates: 1300
 - From desktop to multi-Terabyte file server
 - In > 30 different group setups
 - On hardware up to eight years old
- We need to
 - Maintain compatibility with HERA controls and physics experiments
 - Provide 64bit Linux high performance clusters for T, XFEL, PETRA3
 - Build highly available dedicated servers without userland
 - For dCache, web applications, ...

SLD3 with Userland

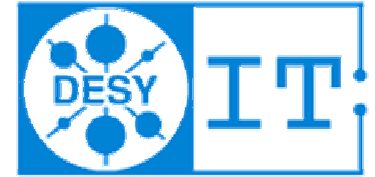


- We are now releasing the DL5 replacement system SLD3
 - 32bit OS with AFS and DESY application software suite
 - Technically, it is no a successor, more a parallel system
- It's upward binary compatible
 - i.e. compiled on DL5 will run on SLD3, not necessarily vice versa
- Available for Personal Workstations and Work Group Servers
 - Just as you are used to from DL5
- More configurations are conceivable, i.e. 'slim' farm nodes

DESY

- Today, we are starting the 'public beta' in Hamburg for
 - SLD3 Workstation
 - must have according wboom flags configured
 - Please register your PC for an SLD3 installation
 - must be single OS on PC, will (still) overwrite complete disk
 - SLD3 Work Group Server
 - We can migrate the first few your servers on request
 - We can 'rent out' systems for benchmarking and evaluation
 - Including dual Opteron and Dual Xeon EM64T platforms
- For office work, it is very usable
 - We invite early adaptors to come, see, and provide feedback

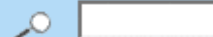
Known Issues (a few of them)



- missing xlock
 - needs PAM-aware package
- missing fvwm
 - an fvwm2 package is on its way
- no HEPX11 (this is a feature)
 - KDE and gnome available by default
- List of AFS systypes (a new feature as well)
 - i586_rhel30, i586_linux24, i386_linux24
 - may confuse scripts and configurators

DESY

- <http://www-it.desy.de/systems/linux>
 - Has valid references to the application software concept
 - Describes the development process so far
 - Will have pointers to hand-on documentation
 - Needs a bit of cleanup
- <http://scientificlinux.desy.de>
 - Is a new CMS based site
 - Currently points to a single page
 - Will provide technical documentation
 - Will only be browsable with Firefox, Mozilla ≥ 1.7 , IE
 - Older browser do not implement style sheets correctly

[Home](#)

Scientific Linux at DESY

On this site, DESY -IT- is launching the information platform on Scientific Linux at DESY, location Hamburg, in August 2005. You will find information on available distributions, the installation frameworks, recommended hardware, answers to frequently asked questions, and the people working on all that. With Scientific Linux becoming the mainstream distribution on site, general informations on the use of Linux at DESY will be added over time.

Scientific Linux (DESY) Status

SLD3, the Scientific Linux -DESY- release 3 in its 32 bit version is in its beta test phase and is being used by a growing number of users for everyday work. We are still fixing bugs and documenting features. Official Rollout is supposed to start in August 2005.

Scientific Linux (DESY) News

This DESY CMS based web site is going live in August 2005.

Links

- [Scientific Linux Project Home at FNAL](#)
- [Scientific Linux DESY 3 at Zeuthen](#)
- [Scientific Applications on Linux](#)

- [+ Information](#)
- [+ Distributions](#)
- [+ Hardware](#)
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SL Scientific Linux at DESY

FAST NAVIGATOR

- Installation
- ▣ wboom/salad
- ▣ Quattor
- ▣ Standalone

Home : Installation

Scientific Linux Installations

Scientific Linux distributions are available as managed installations within the DESY network for servers and desktop workstations.

As direct (and compatible) successor of our DESY Linux distributions, we provide SLD3 within the same management framework (wboom/SALAD) and a rich set of bundled application software, including commercial tools and compilers which we DESY has licensed. For SL3, this will be the mainstream distribution at DESY.

GRID farms and servers are being set up within DESY's computer center according to HEP-wide standards using the LCG quattor tool suite.

For those who know what they are doing, Scientific Linux is available as untainted standalone system directly from our installaiton server. This is mostly helpful for tests and evaluations, since you only have the builtin tools for installation and administration and will be facing recurring manual work to keep your installation up to date. For production systems, we recommend one of our managed installations.

