

Update On Scientific Linux

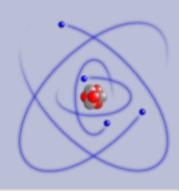
Troy Dawson

dawson@fnal.gov

HEPIX Fall 2009

October 29, 2009

Witty Comment



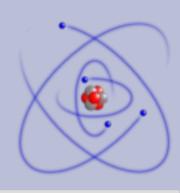
Q: How many linux machines does it take to screw in a light-bulb?

A: One, if you can find the driver.

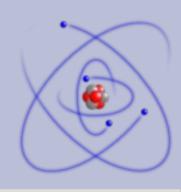
the Gentoo motto:

if it moves, compile it.

if it doesn't move compile it anyway.

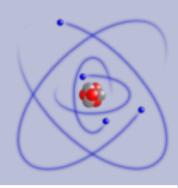


- Presentation Overview
 - The last six months
 - What we are currently working on
 - What we see in the future
 - Plenary Discussion

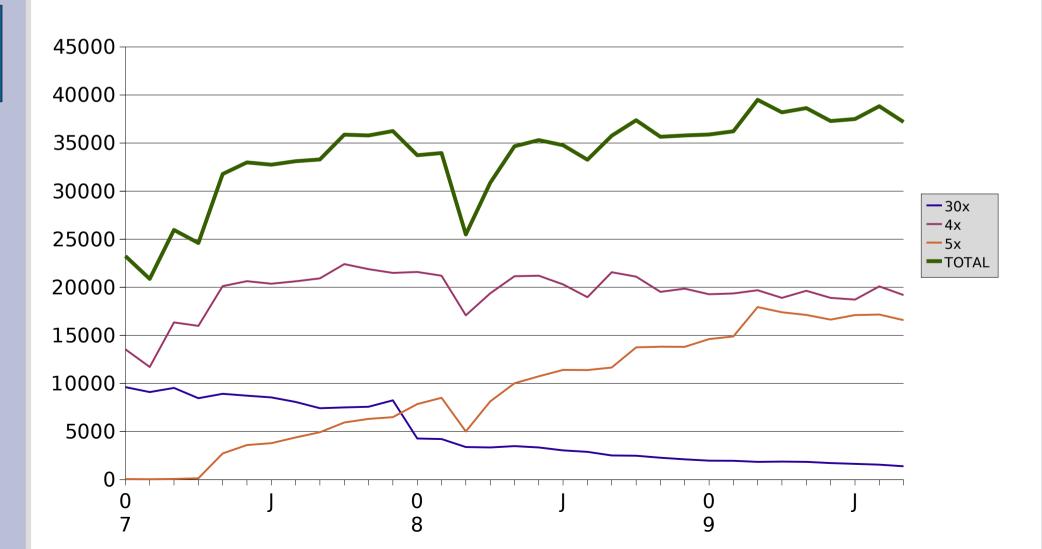


- The following statistics were gathered from ftp.scientificlinux.org log files
 - These numbers are the minimum. We know that they are higher.
 - These numbers are based on the yum and apt access to the errata
 - We currently have 29 public mirrors, and know of 178 sites mirroring us. These statistics do not represent any of the mirror sites.

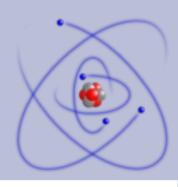
The Past Six Months



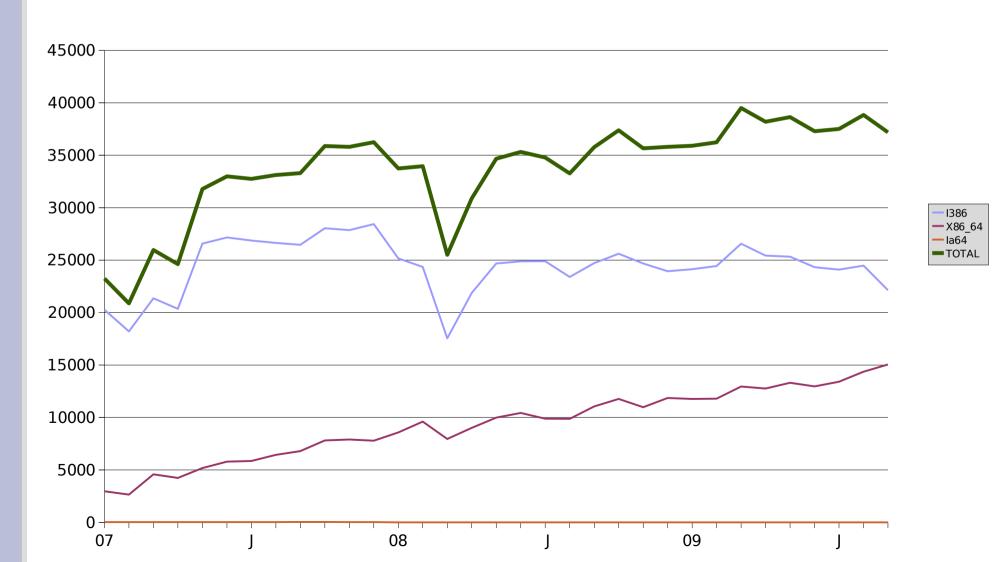
2007 to Present - By Release



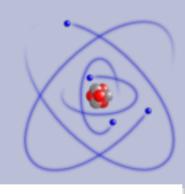
The Past Six Months



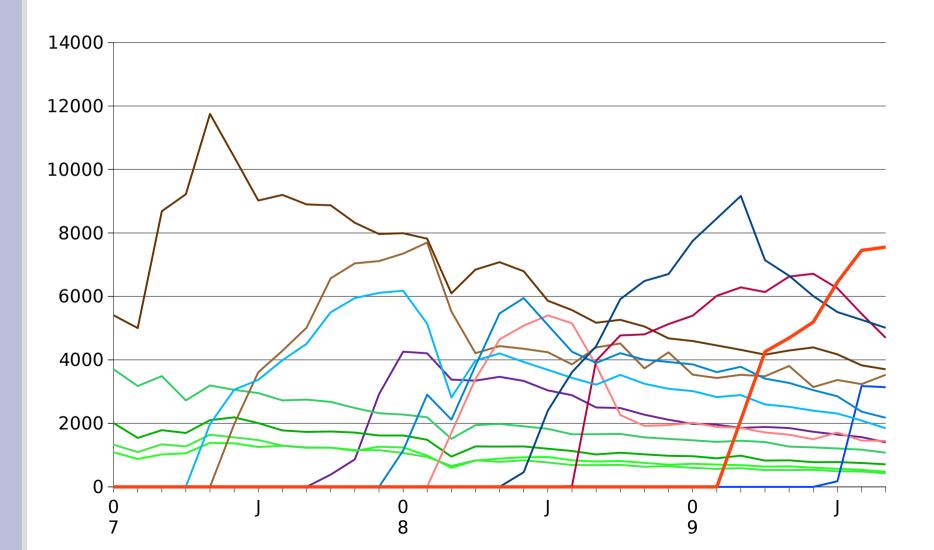
2007 to Present - By Arch

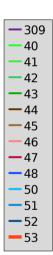


The Past Six Months

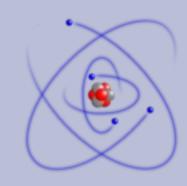


2007 to Present - By Individual Release

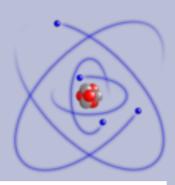




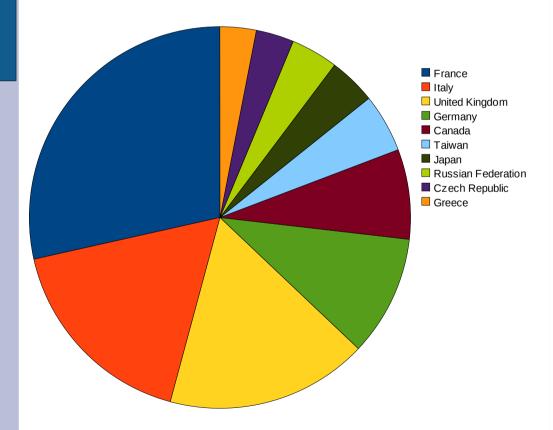
The Past Six Months



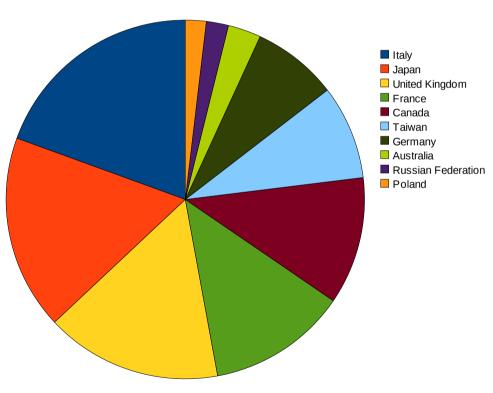
- The following charts are based on the number of files, and/or the number of megabytes downloaded from ftp.scientificlinux.org
- Networks in the US are not counted
- Networks that might be in several countries, such a .org or .net have been taken out as well.
- This isn't to prove anything, these charts are made just for fun.

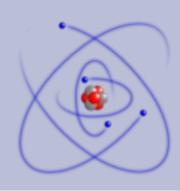


Top Downloads of Files September 2009



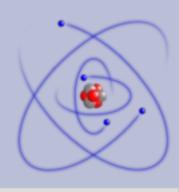
Top Downloads by Megabytes September 2009



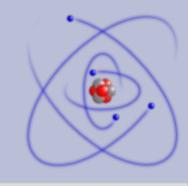


- S.L. 4.8 released July 2009
 - For i386 and x86_64
 - Programs that were added
 - Squashfs, unionfs
 - comps.xml was cleaned up to match RedHat's
 - No new features were added, just a nice stable release.

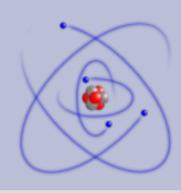
The Past Six Months



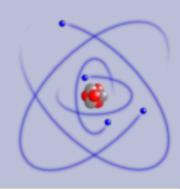
- S.L. Live 4.8 released August 2009
 - · Web site is at www.livecd.ethz.ch
 - For i386 and x86_64
 - CD, DVD, mini-CD
 - Changes can be stored persistently on a storage device like an USB key
 - can be installed on USB key, or local hard disk
 - LiveCD can be mounted over NFS (diskless client)



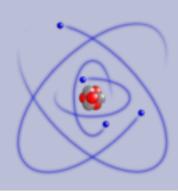
- Security updates continually released for all supported versions
- Fastbugs updates consistantly released weekly for latest versions of SL4 and SL5.
- Testing used more for errata that might cause problems.
- Changed rpm signing keys from Troy and Connies personal keys, to a general SL key.
 - When we updated this, we also added ftp1.scientificlinux.org as a failover for yum



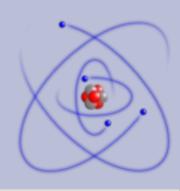
- Updated yum for SL 5
- Updated kernel-module plugin for SL 5 yum
 - Correct yum when yum picks a random kernel module to install
 - Cleanup your system if you have kernel modules for kernels you do not have
 - removes kernel modules when kernels get removed



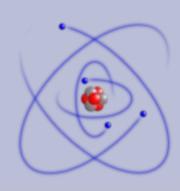
- Web site changed to plain http
 - Old: https://www.scientificlinux.org/
 - New: http://www.scientificlinux.org/
 - Formal announcement will go out with the announcement of the new Scientific Linux logo



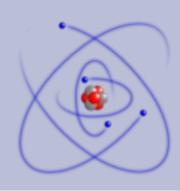
- Building SL 5.4
 - Programs that we added
 - Lua, imlib
 - Firmware: iwlwifi 5150 & 1000, rt62pci, rt73usb
 - comps.xml was cleaned up to match RedHat's
 - The i386 and x86 64 comps files are different now
 - KVM was added to x86_64
 - xfs kernel module is now part of the kernel
 - If nothing show stopping is found it should be released next week – November 3 or 4, 2009



- Newer, faster, better distribution servers
 - New servers have been bought
 - They are currently being burned in
 - We are taking this as an opportunity to review the configuration and security on the servers before putting them into production.
- Redundancy for servers
 - Take some of the load off the main server
 - Allow yum to fall back to another server
 - ftp1.scientificlinux.org
 - ftp2.scientificlinux.org

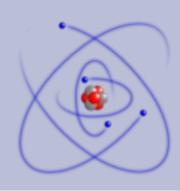


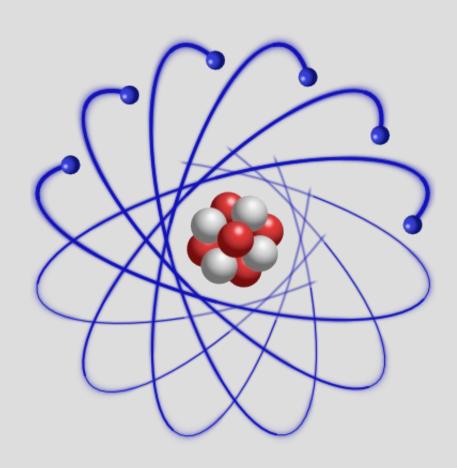
- Scientific Linux Bugzilla
 - Infiscale has offered to setup a bugzilla for us
- More automated build process
 - Make things easier for us with current releases
 - Try to make building SL 6 smoother

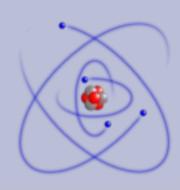


- Contest for the new logo for Scientific Linux
 - We had 16 entries from 10 people
 - All entries were very good
 - As they sometimes say "we all can't be winners"
- And here is our new logo

What we are currently working on

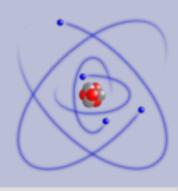






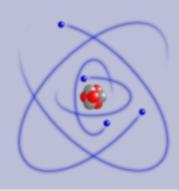
- Will redesign www.scientificlinux.org to reflect new logo
 - Change the colors to match logo
 - Use http instead of https

What we see in the future



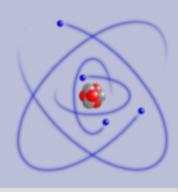
- Continue to have security updates for SL 3.0.9
 - This will continue until October 2010
- Continue to have security updates for all releases of SL 4
- Continue to have fastbug updates for only the latest release of SL 4
- Continue to have security updates for all releases of SL 5
- Continue to have fastbug updates for only the latest release of SL 5

Scientific Linux What we see in the future

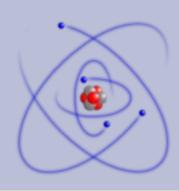


- Releasing S.L. 4.9
 - Estimate February 2010
- When RHEL 5 Update 5 comes out, releasing S.L. 5.5
 - Estimate May 2010
- When RHEL 6 comes out, releasing S.L. 6.0
 - Estimate August 2010
 - RHEL 6 beta late Nov. early Dec. 2009
 - RHEL 6 released late May or June 2010
 - This is a total guess. We have no idea

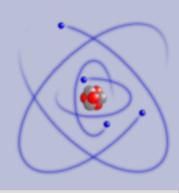
Scientific Linux What we see in the future



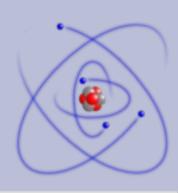
- Create errata.scientificlinux.org similar to http://rhn.redhat.com/errata/
- More automation of rpm checking and errata email.



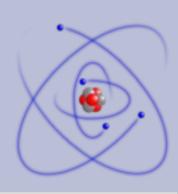
- This is our chance to get direction from you, the users of Scientific Linux
 - What is important
 - What should we change
 - Discuss time lines and road maps



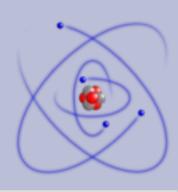
- Scientific Linux 4 timeline
 - Currently we say we support it until 10/10/10
 - RedHat's last RHEL 4 update will be Q4 2009
 - https://www.redhat.com/security/updates/errata/
 - At Fermilab we have SLF 4 users that will not be able to be off SLF 4 in a years time.
 - Should we do the same to SL4 that we did to SL3
 - One last release SL 4.9 codename Legacy
 - On October 10, 2010 end support for all older SL4
 - Support SL 4.9 until Feb. 2012



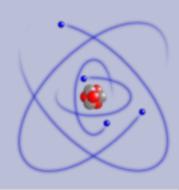
- Scientific Linux 6
 - People's feelings about working with CentOS?
 - It just doesn't seem like the same as before.
 - Idea's about creating "sites"?



- Luster
 - Do we want it into the release?
 - We cannot provide a kernel, but is there a kernel module that will work?
 - Is this maintainable?
- Globus Toolkit or Utilities
 - Should we take what is in EPEL and put it into the main Scientific Linux?
 - Are the labs ready for this?
 - Should we just leave it in EPEL and let users get it from there if they want?



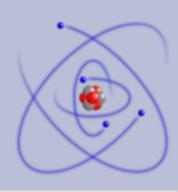
- Wiki?
 - In addition to a bugzilla site, Infiscale has offered to host a wiki for Scientific Linux
 - We must have at least one moderator that makes sure objectionable material doesn't appear, or the sight doesn't loose focus.
 - The moderator cannot be Troy Dawson or Connie Sieh
 - Do we need and/or want a Wiki?
 - Shall we ask the community for a volunteer to maintain the site?



Other Topics?

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References



- https://www.scientificlinux.org/
- http://ftp.scientificlinux.org/linux/scientific/
- http://ftp1.scientificlinux.org/linux/scientific/
- http://ftp2.scientificlinux.org/linux/scientific/
- ftp://ftp.scientificlinux.org/linux/scientific/
- http://www.livecd.ethz.ch/
- https://www.redhat.com/security/updates/errata//