

# Update On Scientific Linux

**Connie Sieh**  
csieh@fnal.gov

**HEPIX Spring 2007 at DESY**  
April 26, 2007

# Scientific Linux

- Presentation Overview
  - 2004 to the Present
  - The last six months
  - What we are currently working on
  - What we see in the future
- Definitions
  - TUV
    - The Upstream Vendor
      - RedHat

# Scientific Linux

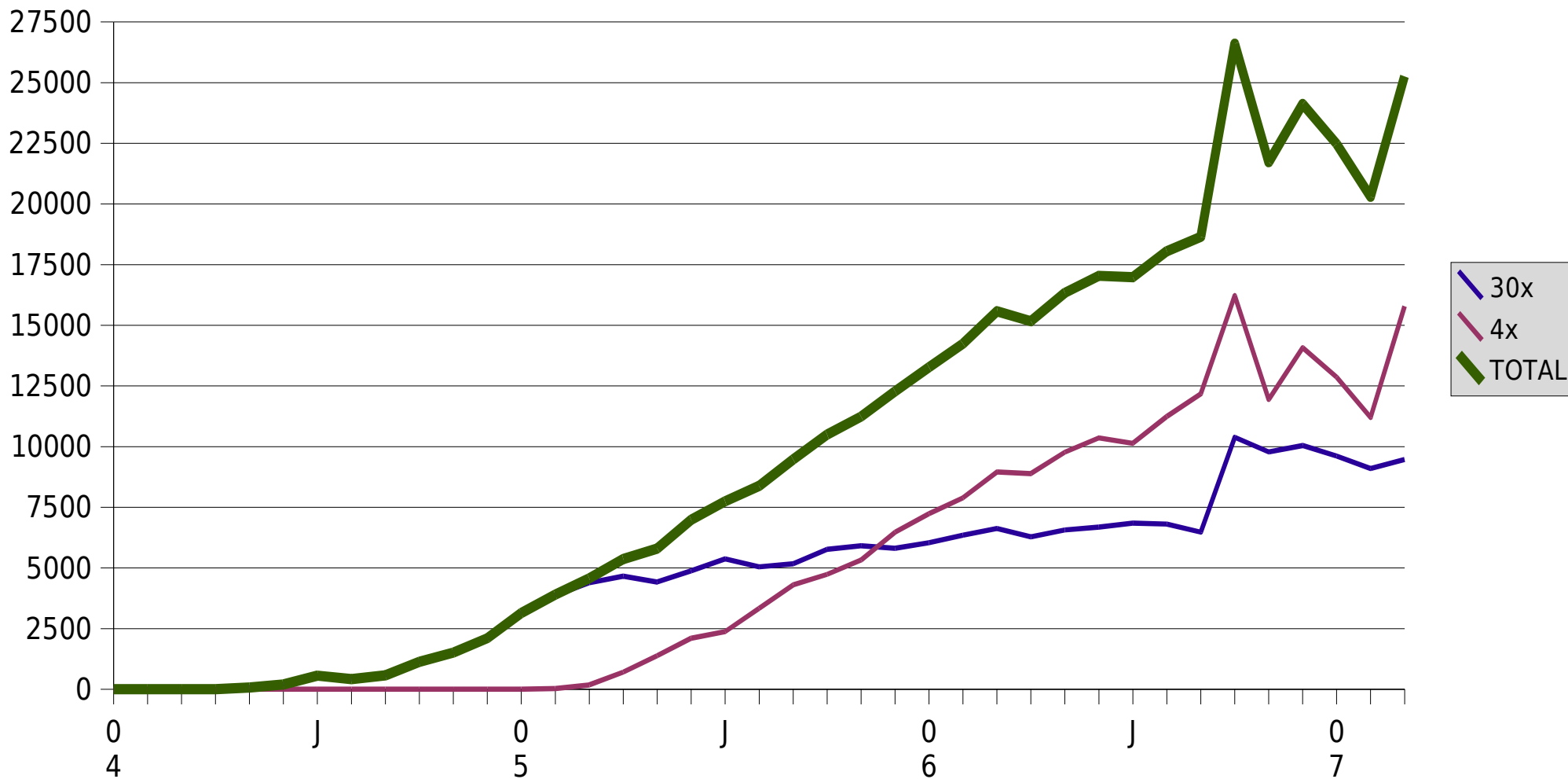
2004 to the Present

- The following statistics were gathered from [ftp.scientificlinux.org](http://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 25 public mirrors, and know of 70 sites mirroring us. These statistics do not represent any of the mirror sites.

# Scientific Linux

## 2004 to the Present

### 2004 to Present - By Release

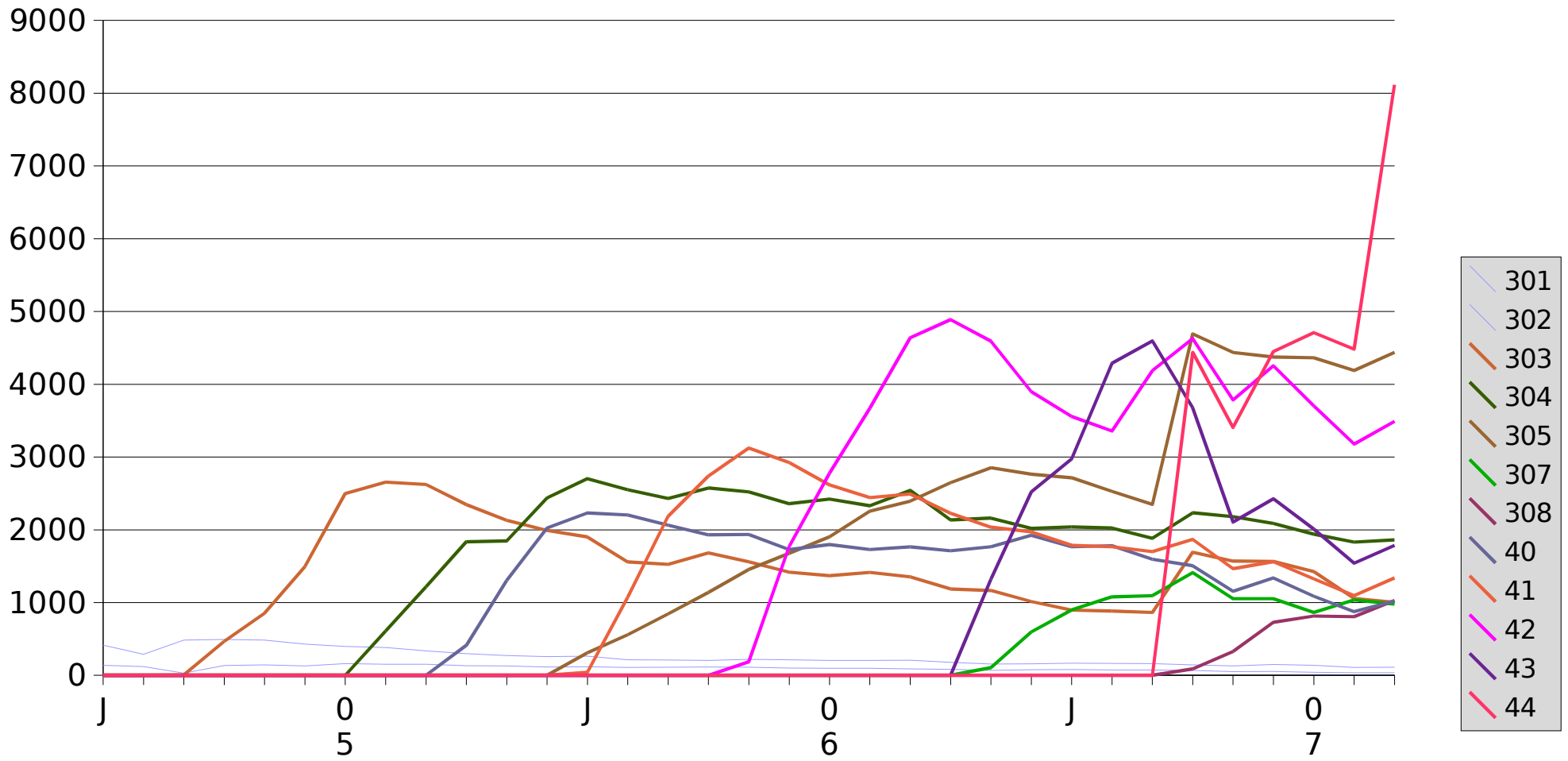


**Scientific Linux**

# Scientific Linux

2004 to the Present

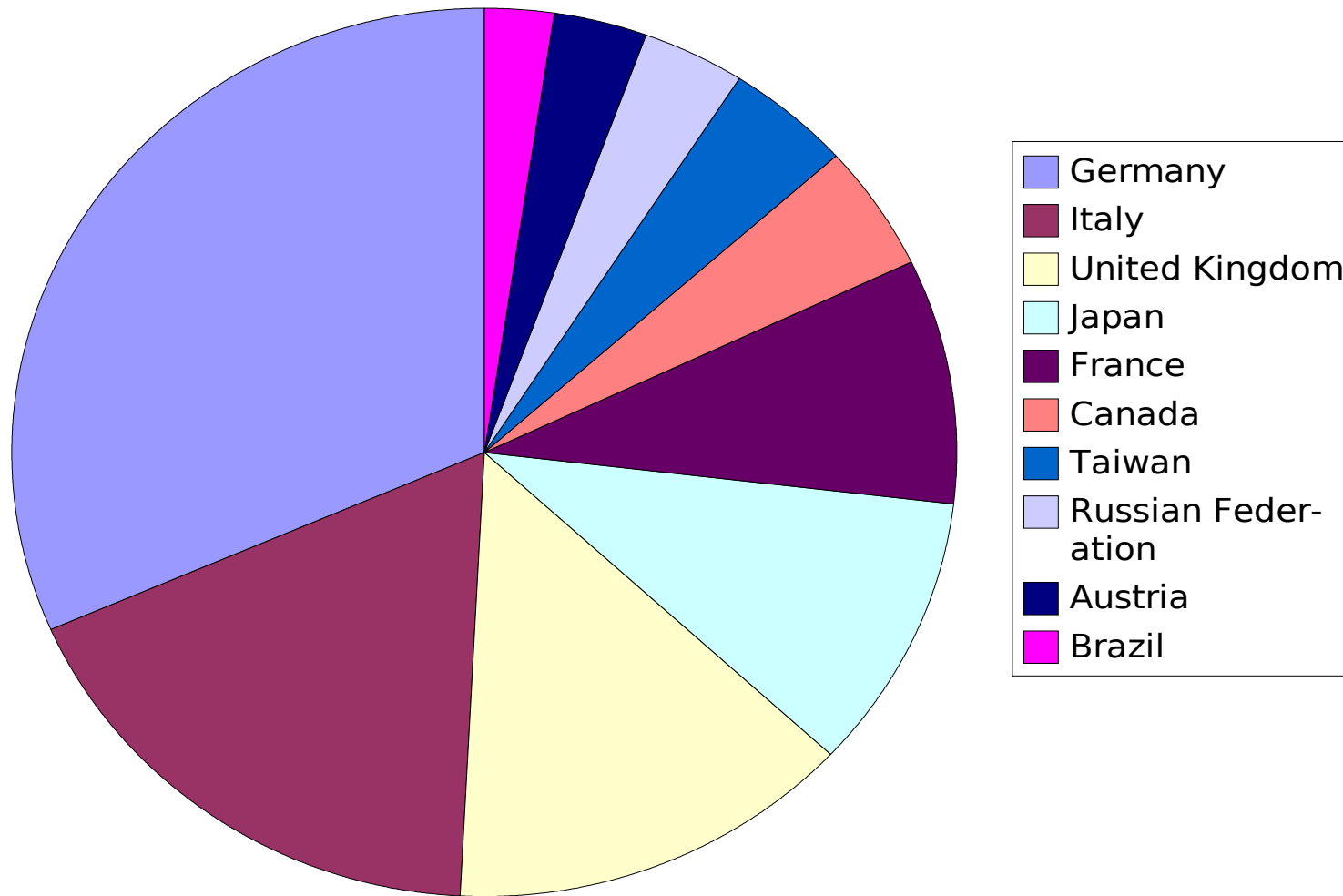
2004 to Present - By Individual Release



**Scientific Linux**

# Scientific Linux

## Top 10 Downloads by MB by Country



**Scientific Linux**

# Scientific Linux

## The Past Six Months

- S.L. 4.4 released – September 2006
  - For i386 and x86\_64
- S.L. 3.0.8 released – October 2006
  - For i386 and x86\_64

# Scientific Linux

## The Past Six Months

- SL4
  - Several packages added
    - cfitsio
    - madwifi
    - numpy
    - R

# Scientific Linux

## The Past Six Months

- [www.scientificlinux.org](http://www.scientificlinux.org)
  - Migrated [ftp.scientificlinux.org](ftp://ftp.scientificlinux.org) storage from a GFS filesystem to BlueArc NAS Appliance
  - Testing the use of TUX as a http server
- Build system
  - Migrated build system build areas to BlueArc

# Scientific Linux

- Scientific Linux 5.0
  - Release Candidate 2 for i386 now available
    - Will release next week
  - Release Candidate 1 for x86\_64 now available
    - Will release week after that
  - Sites are not supported in this version
    - Did this so that users who do not need sites could get sooner access
  - No ia64

# Scientific Linux

what we are currently working on

- Scientific Linux 5.0
  - rpms we added
    - cfitsio, R
    - graphviz , nedit, multimedia , gv
    - openafs, fuse
    - icewm, pine
    - Java 1.5.0\_11 from Sun
    - madwifi, ndiswrapper, r1000, ipw3945
    - yumex, yum-utils

# Scientific Linux

what we are currently working on

- Scientific Linux 5.x building
  - Using “mock” to build rpms
    - Builds a custom chroot based on the “buildrequires” specified in the src.rpm
    - Keeps build from pulling in “other” files
    - Used by Fedora Extras
  - Using “pungi” to build iso images
    - Fedora Development iso build tool
    - manifest file of rpms it will determine dependencies
    - allows for customized iso images



**Scientific Linux**

# Scientific Linux

what we are currently working on

- Scientific Linux 5.x building process
  - Start with RHELv2 5 Beta
  - Rebuild all RHEL 5 src.rpm's
  - Rebuild again using newly rebuilt rpms
  - Verify that newly rebuilt rpms have same contents as TUV version
  - Customize all the TUV rpms that have trademarks
  - Add SL specific rpms



**Scientific Linux**

# Scientific Linux

what we see in the future

- Security support for SL 3.0.x
  - Provide limited legacy support until October 2010 (TUV retirement time)
- Security support for SL 4.x
  - Provide security errata support until at least 2010

# Scientific Linux

what we see in the future

- SL 4.5
  - Expect TUV to release this week, will work on
- SL 3.0.9
  - TUV is expected to provide a Update 9
  - We will provide a “non desktop” version
    - Desktop users do not really want SL 3.0.x
- TUV has changed their release timeline
  - Will have to see how this affects our time line

# Scientific Linux

what we see in the future

- Volunteers needed:
  - coordinate scientific applications
  - coordinate other applications

# References

- <https://www.scientificlinux.org/>
- <ftp://ftp.scientificlinux.org/linux/scientific/>

# Credits SL 5.0

- Urs Beyerle - live iso , madwifi
- Troy Dawson - web site, most added rpms
- Connie Sieh - installer changes, build system
- Stephan Weisand - openafs, gv, testing
- William Somsy - logo

# CentOS

- Question to use CentOS
  - Issues
    - No public beta
      - We really need public beta's
    - CentOS mandate to not add functionality
      - Need to add functionality for sites to work the same
      - This is even with the SL rpms in a SL repo
    - Loss of control

# CentOS

- Question to use CentOS
  - Advantages
    - Could save work if used CentOS rpms
      - But since they do not have a public beta would have to wait until released
      - Could use security errata
    - Bigger development team
  - CentOS commitment
    - If we used CentOS rpms then we should give back by joining the CentOS development team
    - I have joined the CentOS QA team