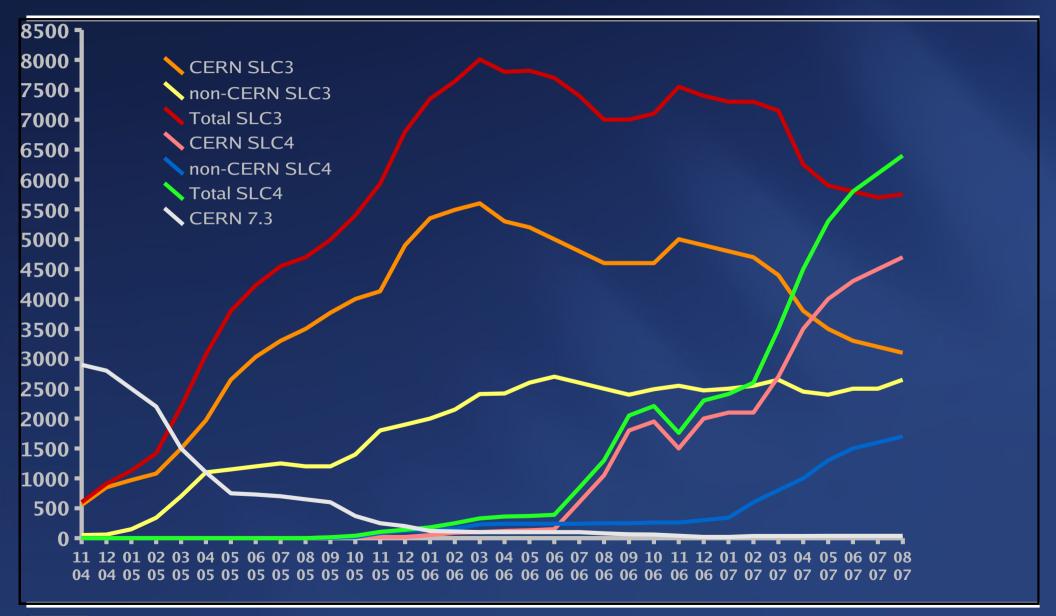
Linux Certification Committee Meeting – August 2007



Scientific Linux CERN 3 & 4 (SLC3 & 4) Evolution of active system numbers.



Scientific Linux CERN 5 (SLC5)

- Still long time before it could be in a production state...

 (At best about 6 months from now as past certifications have shown ...)
- Experiment software / GRID middleware cannot be ported to SLC5 in 2007 ... maybe also not in first-half of 2008 ?
- Convenient time window for migration seems to be at earliest end of 2008 for some groups/experiments?
- Except for some services/desktops which could migrate earlier.
 - Seems that there is no pressure to go for it now ...



Scientific Linux CERN 5 (SLC5)

Problem:

- Current distribution: Scientific Linux CERN 4 is behind the point where new hardware support is added... We always had troubles providing support for latest hardware. **NOW** we are also in trouble for not-so-recent (end 2006) models ...

Solution(s)?

- Abandon "desktop support", concentrate on PLUS/BATCH services ? (users tend to run their preferred Ubuntu or other distribution anyway ...)
- Provide add-on kernel / X11 with up-to-date hardware support on SLC4? (**trying** not to break too much the runtime/compile compatibility...): Lots of work and CERN-only solution: no more unified platform across HEP community ...
- Provide SLC5 'as is' i.e. without certification to those who have more modern hardware? (no guarantee that experiment code can be developed / used ..)



Scientific Linux CERN 5 (SLC5)

- Provide SLC5 with a (experiment-certified) compatibility layer (old gcc, python libraries from AFS ... etc..): Could possibly be used everywhere but at least GRID middleware needs port to the platform ?
- Fully certify SLC5 in first half of 2008 ?
 Provide full experiment and GRID toolchain available with native compiler.
 Is the date realistic ?

- What is **YOUR** preference?



(Certified) Linux on Laptops at CERN... the end?

- Some (unreliable as rarely updated) numbers from Lan DB:
 - ~3900 linux laptops registered at CERN.
 - ~830 registered as running CERN linux version plus ~550 some Red Hat variant.
- In last 12 months:
 - 150 HP NC6400 models sold. 110 of these running NICE, so numbers suggest that maybe 10-20 are running SLC: too little to justify hardware certification...
- SLC4: Hardware support problems seen since 2006 already but now getting critical: we cannot get **ANY** compatible model anymore at mid 2007 ...
- SLC5: Would solve (part of) the problem for **NOW**, but the same situation will most likely happen in 2008 (just when it gets certified ?)
- Red Hat does not target laptop users: no updated support for quickly moving hardware and certainly not for 'old' releases.
- As consequence of the above: We should seriously think about **dropping linux support on laptops**, therefore some questions:
 - Is the requirement "same OS everywhere" still needed?
 - Or giving that we can have SLC4/5 running in a virtual machine (Xen or other) providing CERN system on laptops only as virtual guest would be sufficient?

