DESY Site Report
Update on Unix

Thorsten Kleinwort
Thorsten.Kleinwort@ifh.de
DESY

HEPiX II/99, SLAC
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Outline

- Installed Systems Overview
- Linux News
- AFS Update
- Batch Systems
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- Miscellaneous
- Trends

Installed Software Overview

	Hamburg	Zeuthen	Sum	Trend
Linux WGS/Farms	110	50	160	$\Uparrow$
Linux Desktop	139	15	154	$\Uparrow$
Solaris	107	24	131	$\uparrow$
IRIX	36	2	38	$\rightarrow$
HP–UX	59	15	74	$\rightarrow$
AIX	25	$\Rightarrow$0	25	$\searrow$
OSF	2	2	4	$\searrow$
NT	1440	160	1600	$\Uparrow$
X–Terminals	$\sim$1000	150	$\sim$1150	$\searrow$
Unsupported	>1000	20	>1000	

Remarks:

- Linux: The upcoming user platform
- Solaris: Server platform
- SGI: File service disk/tape
- HP–UX: Still main platform for Mechanical CAD

Hamburg:

- HP–login cluster (puls) will be replaced (by Linux?)

Zeuthen:

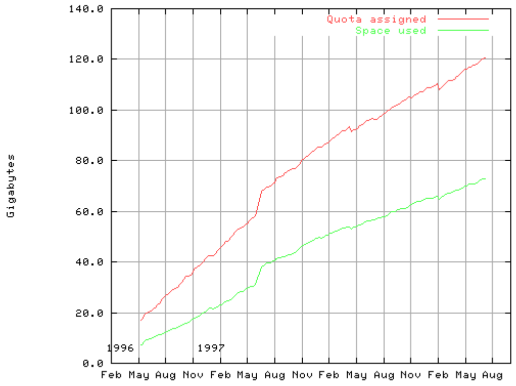
- Switch off AIX end of this year
- no SunOS4 until the end of this year

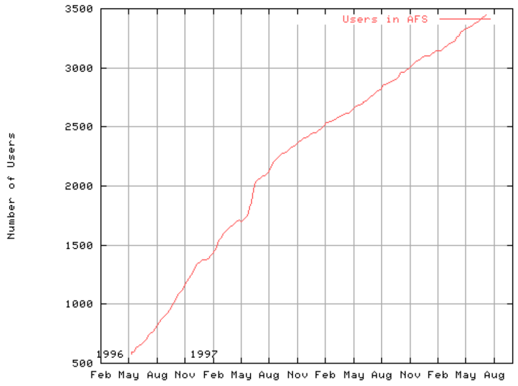
Linux News

- Now SuSE 6.1 (Kernel 2.2.10, glibc) installed version
- Upgrade of old installations (libc5, Kernel 2.0.X) in progress
- Enhanced hands off installation procedure (SuSE: YaST, docu available)
- Supported classes:
  - Desktop
  - Work Group Server/Farm PC
- Reconsider the supported classes:
  - more flexibility
  - more user choice
- (Hardware) differences between classes vanish

AFS Update

- Migration from NFS to AFS home directories goes on





Ztn: 258 of 578 users have AFS home directories, 50GB Raid

- Unification of AFS application software continues
- Zeuthen talked to ASIS people at CERN to make use of ASIS components for the maintenance of the DESY AFS software product structure
- Transarcs Linux AFS Client seems to work fine now

Batch Systems

Hamburg:

- CODINE evaluation
- LSF
- Loadleveler/NQS (may disappear)
- Hamburg may have two batch systems in the future (CODINE/LSF)

Zeuthen:

- CODINE, now with AFS Support for all (batch–) platfoms in production
- With AIX also loadleveler will go away

Network

- Structured cabling in Hamburg and Zeuthen continues
- Cabling gigabit ready

Hamburg:

- Build up a redundant gigabit ethernet backbone
- Main Building 1 ready: 2000 switched ports
- Now migrating the users
- Planned: moving central services in gigabit backbone

Miscellaneous

- Mail: Talk about "Secure Email Access ..." by W. Friebel
- Installation: Talk about "A Tool for Common ..." by W. Friebel
- New Computer Security Officer for DESY: Responsible for Computer Security, works on a "Computer Security Policy" Paper together with the DESY Computer Security Councel.
- New organisation structure at DESY Hamburg IT
- Printing: Print service lprng in Zeuthen (ready) and Hamburg (ongoing)
- Mass storage:
  - Talk about "Eurostore" by M. Gasthuber
  - Joint project FermiLab – DESY(Hamburg):
    Testing a 'Disk cache engine' between tapes and users, to reduce access time to tape drive
- Zeuthen: Tests with LDAP replacing NIS/DNS

Trends

- Concentration on few (Unix) platforms
- Compute power provided more and more by Linux
- Central Services based on powerful Suns
- Do more with less people: “Automate or die”
  - In addition: free positions can not be filled
- Working on common DESY/HEP solutions