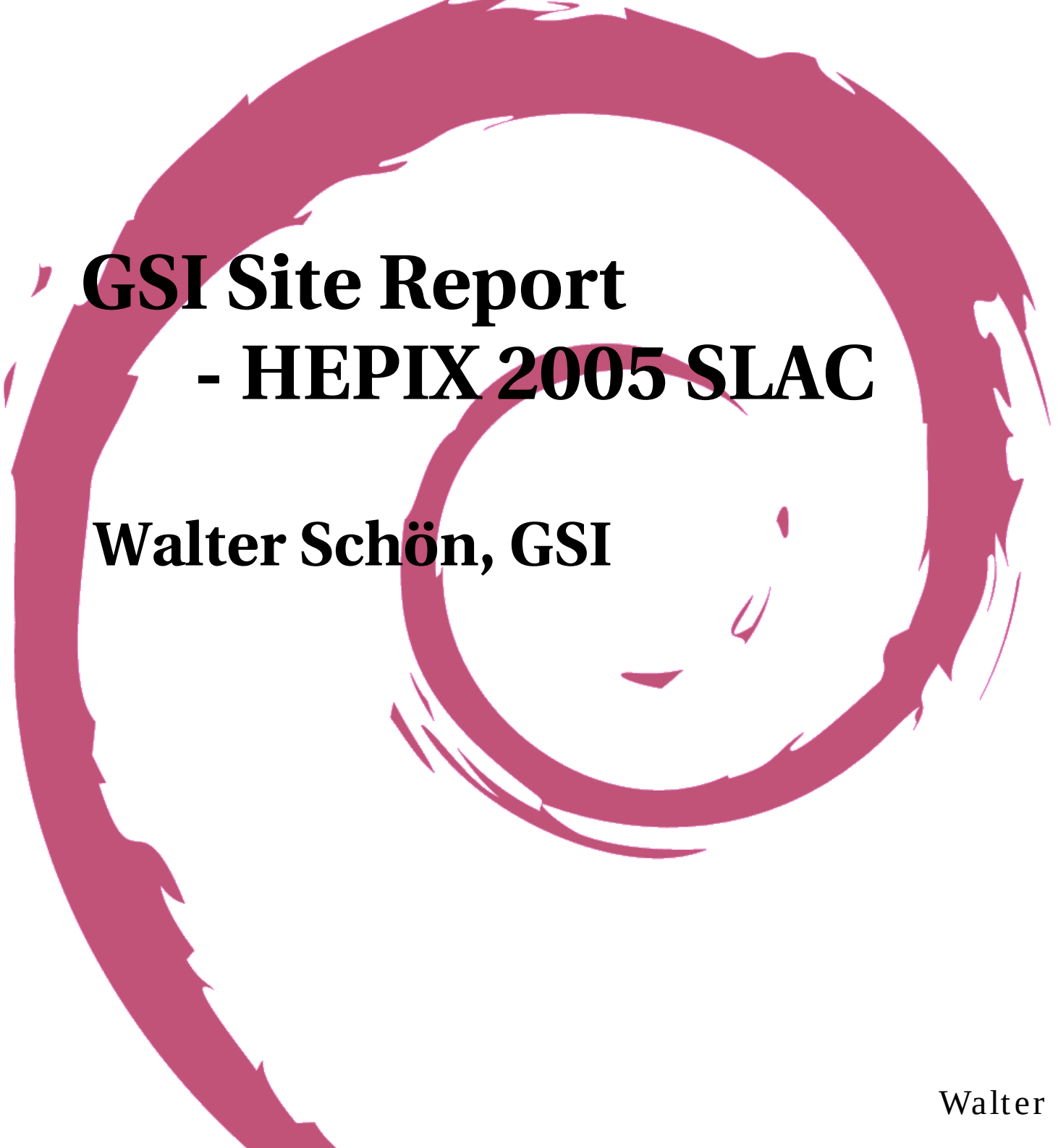
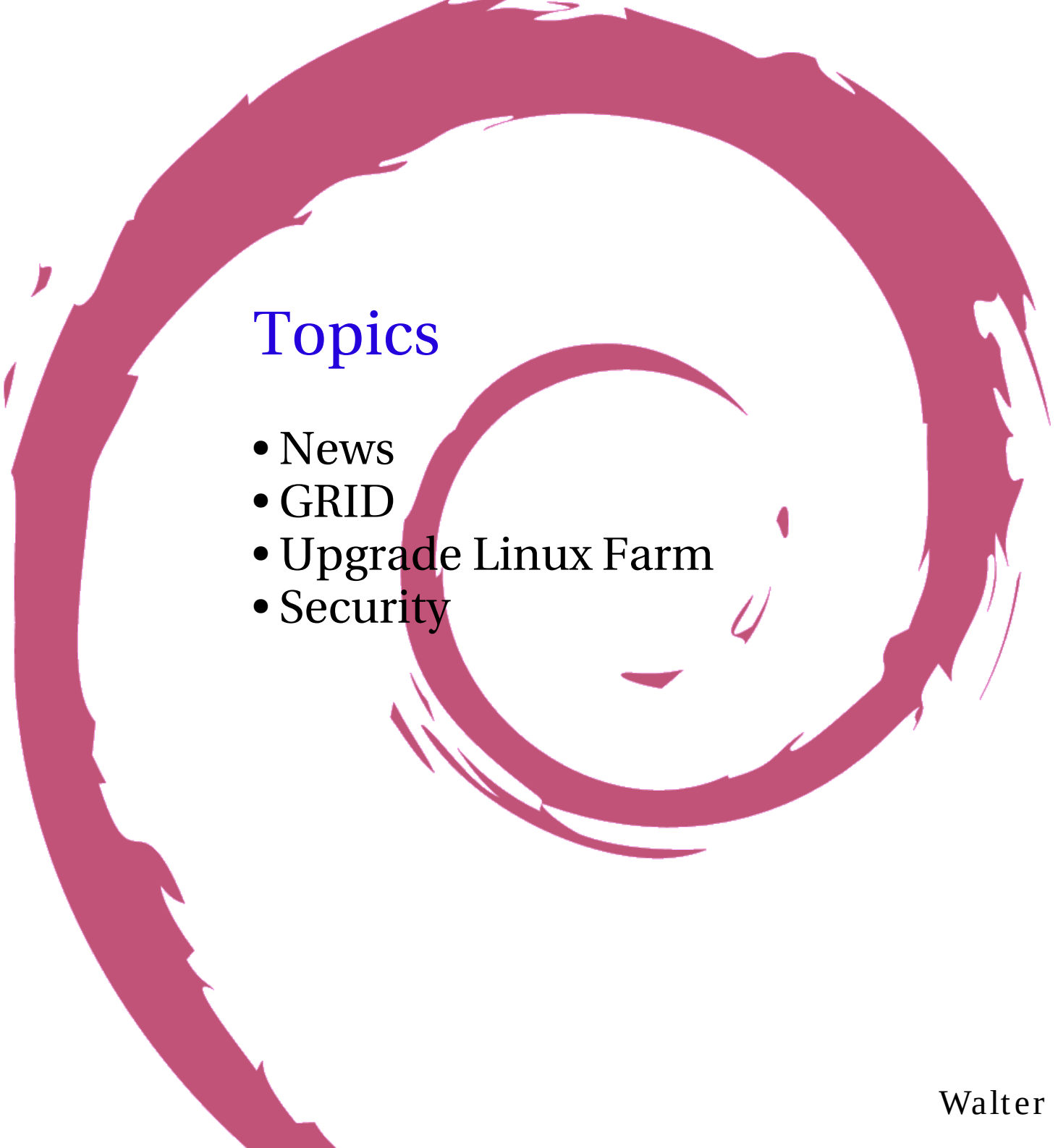


GSI Site Report - HEPIX 2005 SLAC

Walter Schön, GSI



Topics

- News
- GRID
- Upgrade Linux Farm
- Security

IT - News

- New Head of the IT Division: Mathias Muench
- TI Division adopts WIKI for collaborative work

Windows - News

- Exchange 2003 in production – no major problems

Unix - News

- New People
- Upgrade of the Batch Farm
  - Software: Upgrade to Debian Sarge in Progress
  - Support for 64 Bit Debian
  - Hardware: new 64 Bit Dual Core Opterons

Storage - News

- Migration from Windows Data-Mover to Linux
- Migration from Windows TSM server to UNIX server
- Upgrade of the IBM 3494 library with SAN attached drives IBM3592 with 500GB => >1 PB end of the year

GRID - News

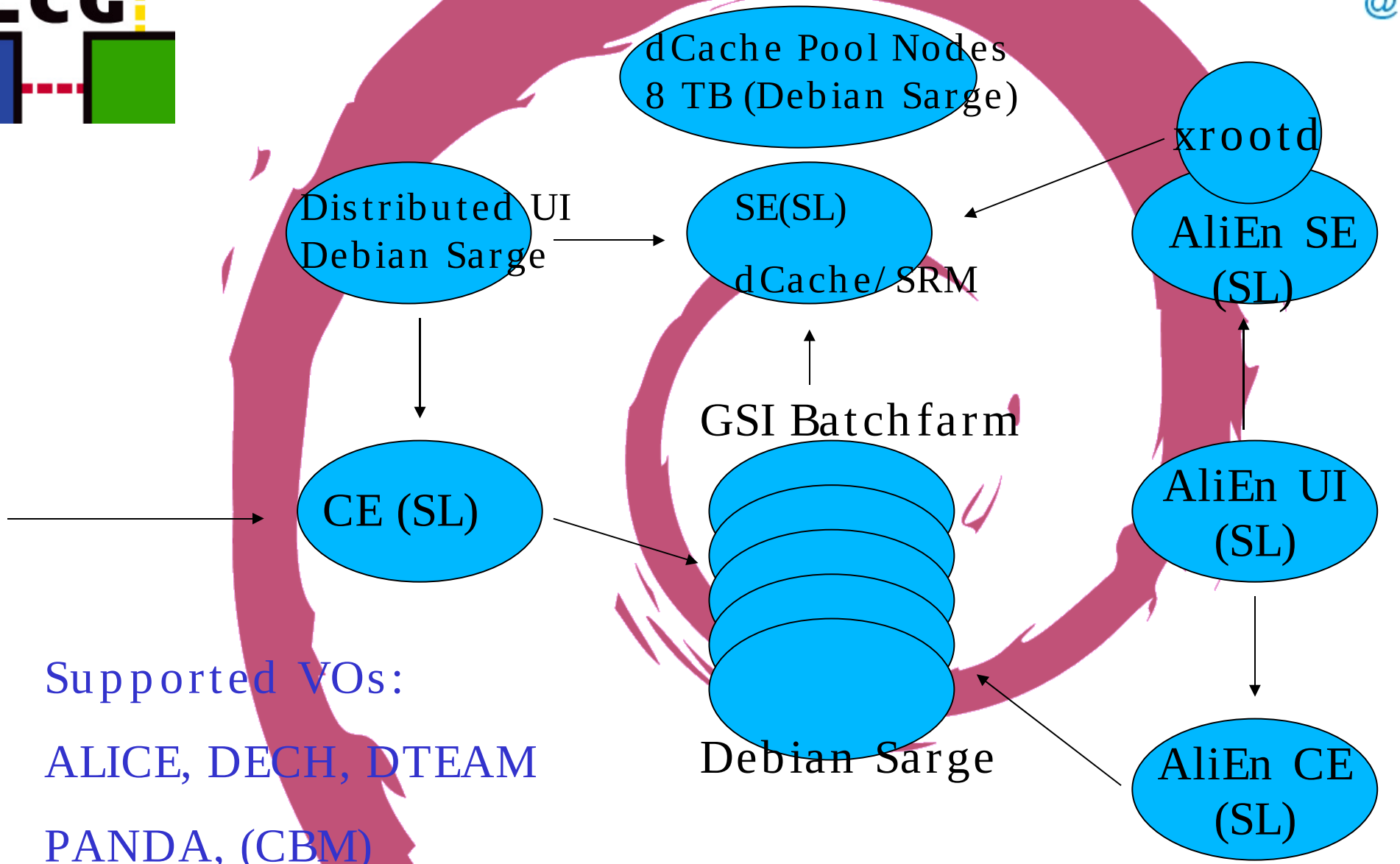
- GSI participates at the ALICE service challenge

SPAM - News

- User defined rejection of Spam at the Server
- Greylisting for automatic selected Domains
- Spamassassin 3.1.0

=> SPAM is not longer a problem at GSI

GSI Grid Setup



Supported VOs:

ALICE, DECH, DTEAM

PANDA, (CBM)

Batch Farm

Software: Upgrade to Debian Sarge

- File server: Partly done
- Central services: Partly done
- 1 Batch queue already running Debian Sarge
- Test systems with 64 Bit Debian for public use

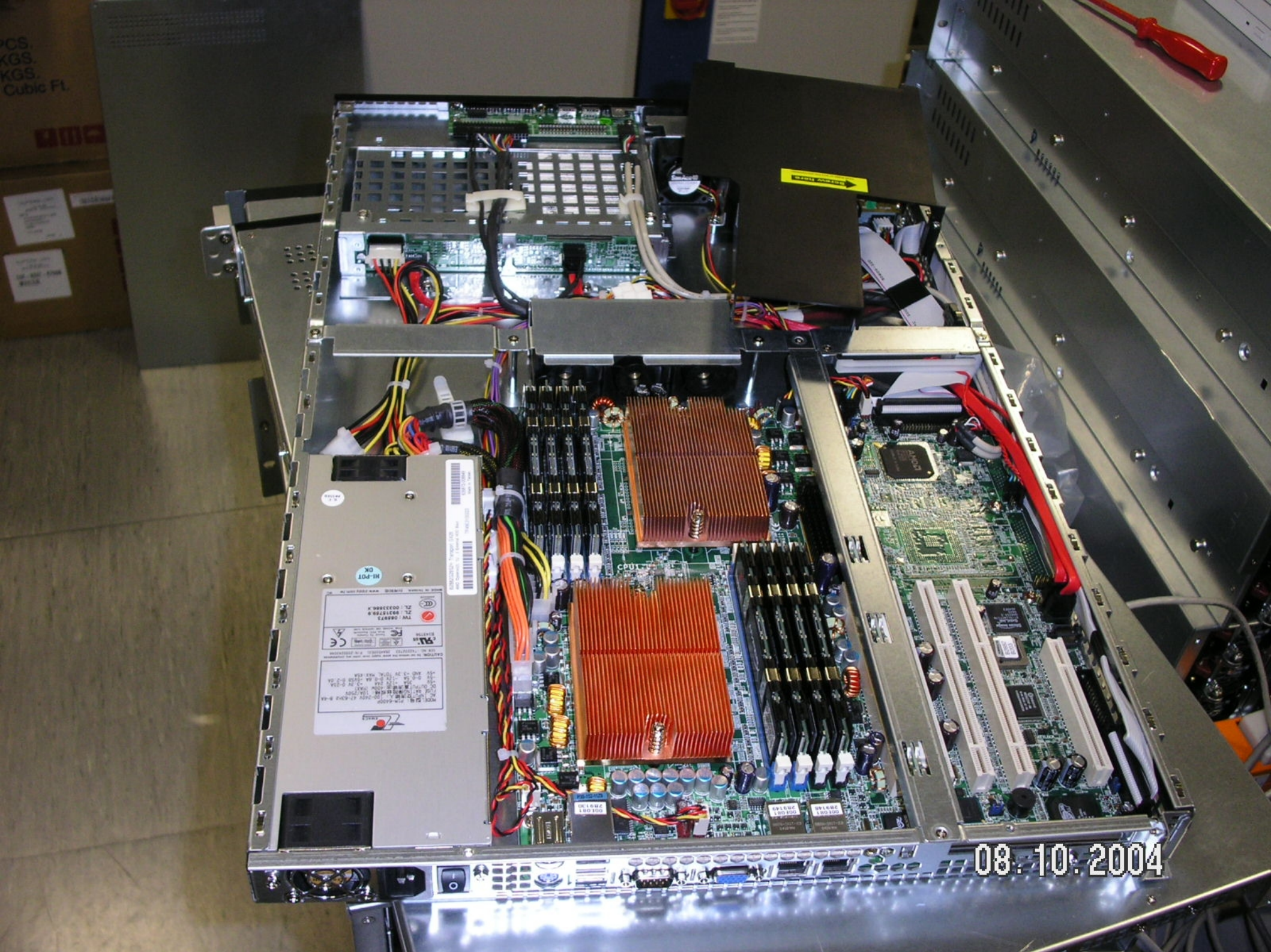
Hardware: Upgrade to Dual Core Opteron

- Limited space in computer center
- 140 1 HE barebones: 560 new CPU's

Batch farm upgrade

- Dual Core 2.2/2.4 Ghz
- barebones 1HE
  - Same manufacturer barbone/board
  - 4GB, 4 hot swap slots, 3.4kE
  - 2 x 160 GB disks
  - No fans on board
  - Air cool system
- 40 boxes/rack
  => 160 CPU's/rack
- Air cooled/closed doors
- No thermal problems
- 140 new boxes

80GB
80GB
80GB
SUPERMICRO
SUPERMICRO
SUPERMICRO


08.10.2004

Fileserver

- Very reliable
- SATA 3W9500
- 15 slot hot swap
- redundant power supplies
- No Fans on mainboard
- Air cool System
- WD raptor disks 73 GB
- ~ 7 TB RAID 5

=> New user Home system

SATA Experience, update

- 3HE Supermicro Server: very reliable
  - > 2 years, > 50 server (central services, data)
- 3W9500: fast, very reliable
- Maxtor II plus, 250 GB: very reliable, not longer produced
- Maxtor III, 250 GB: Maybe problems ? => WD Raid edition
- WD raptors: very fast, very reliable

Outlook:

- Data mover => migration to 3HE SATA server
- Testing 3w 9550 SATA controller
  - 9500: > 110 MB/s writing RAID 5 (measured W.Schoen)
  - 9550: > 380 MB/s writing RAID 5 (PR Division 3W)
    => testing parallel access .... ;-)
- Testing SATA WD 320 GB RAID Edition

Security

- Problems with “traveling” Laptops
- Migration from VPN to Terminal server to avoid VPN for “all”