

Site report "itp.tugraz.at"

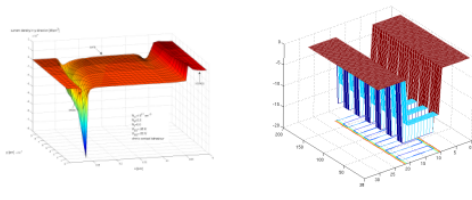
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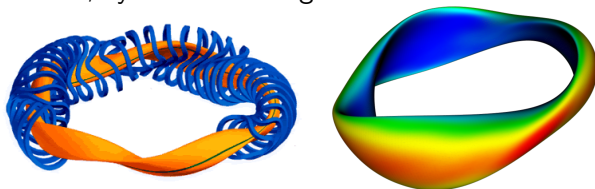
European AFS Workshop 2008
24. to 26. September. 2008



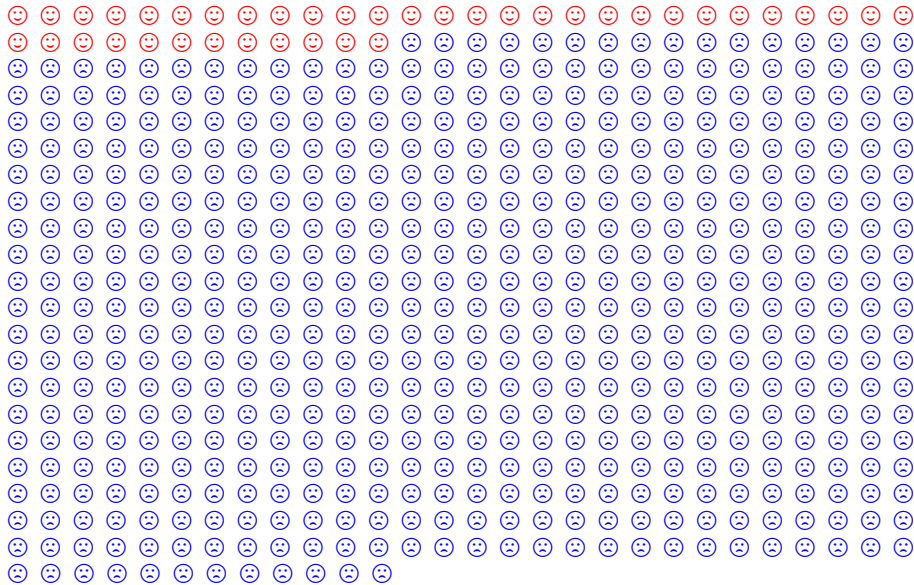
- ▶ Manybody physics, condensed matter, charge transport in semiconductors (organic, strained silicon), low dimensional nano-structured materials



- ▶ Plasma electro dynamics, optimizations for "hot" nuclear fusion devices, cyclotron heating

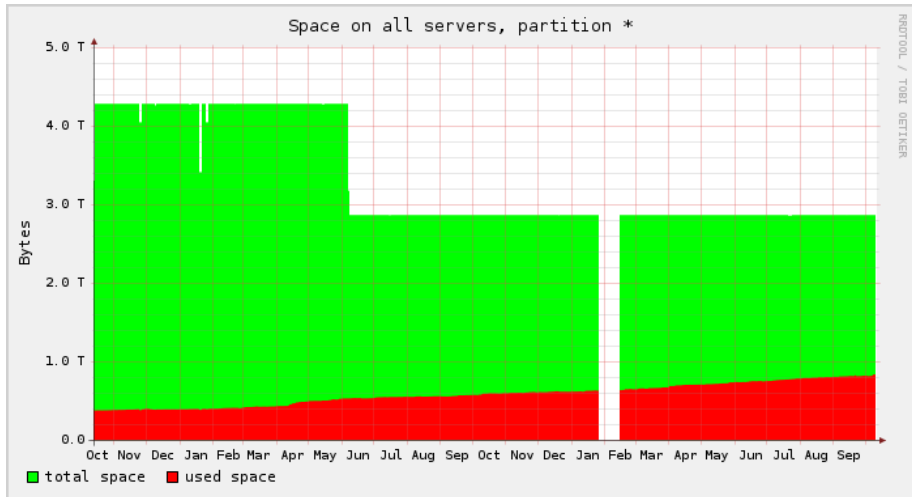


We are small!

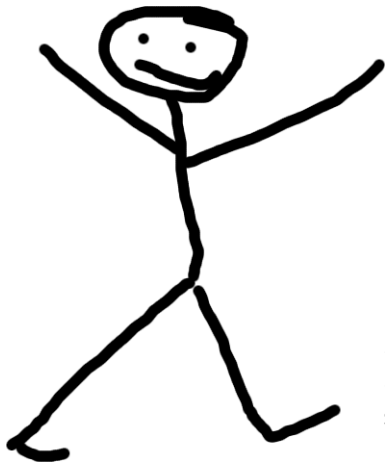


≈ 600 users, usually not more than 40 active at any time



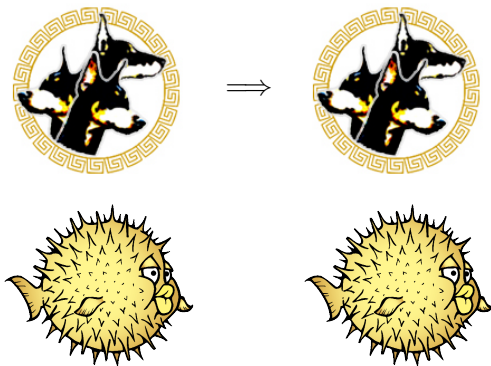


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Just me! Hardware, purchase, operating systems, AFS, Kerberos, web services, mail, application software, hand-holding, programming ...

Setup?





- ▶ fairly new machines for better reliability
drawback: can not afford dedicated server hardware
- ▶ use "fake" IP addresses `faepafs{1,2,3}` for servers
reason: no control over DNS, unable to set aliases fast in case of change

Debian 4.0 i386	SW-RAID 1	
Debian 4.0 amd64	SW-RAID 5	
Debian 4.0 amd64	SW-RAID 5	

- ▶ dedicated hardware with fast SATA disks
- ▶ affordable hardware RAID proved to be too slow under heavy load
- ▶ ext3

Yes, we do backup!

- ▶ no more tapes
- ▶ `vos backupsys`, `butc`, and backup on a server with lots of slow storage
- ▶ `vos backup` and `vos dump` on external harddisks (USB, eSATA) stored offsite once per month

Plans for the future?

Regarding AFS I see some chances in virtualization — especially lightweight containers like Linux VServer or OpenVZ:

- ▶ public services running in container with full access to AFS client
- ▶ AFS database servers

As a supplement to AFS I intend to evaluate ceph for bulk storage of low security data.

END!

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