GSI Site Report
HEPiX Fall 2017
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Status GreenITCube
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- All HPC systems inside GreenITCube
- New linux servers installed in GreenITCube
- „Accelerator IT“ using one row (second row reserved)
- Ca. 200 kW more IT load installed
- PUE 1.07 in daily business
MiniCube decommissioned
What has changed?

- **Migration cfengine → CHEF**
  - CHEF now widely spread
  - all new Servers now managed by CHEF
    (e.g. CUPS Server → Talk Stefan Haller)
  - Desktops still mixed cfengine & chef controlled
    Will change with Debian Stretch roll out

- **Migration gitorious → gitlab**
  - Better interaction with CHEF (Roles upload automatically)
  - cleanup of old repositories
Status Cluster and Storage

- Compute cluster Kronos: 13800 Cores (Intel)
- L-CSC GPU cluster: 700 GPUs (part of Kronos)

- Nyx Lustre FS (v2.5.3): 14 PB
- Lustre HSM-TSM solution actually beta testing
  - Hardware for first real system ordered

- Evaluation of CentOS and Lustre 2.10 as successor
New asset management system

- Old system: developed by GSI
  - Developer left GSI long time ago
  - No further development/extensions since years

- Ordering process with evaluation of 16 solutions
  - 5 solutions evaluated in detail

- Winning solution: FNT Command

- Powerful tool with lots of modules
- Customizing needed anyway
New asset management system
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- Managed by Base-IT
- Used by Base-IT, HPC and Accelerator IT
- Open for other groups
- Reworking old data took much longer

- Used for:
  - Asset management (Server, PCs, printer, ….)
  - Cable Management
  - Data Center management / planning

- Still open tasks, e.g. interconnect with ONA
Open house 2017-05-07
FAIR groundbreaking 2017-07-04
Thank you!

Questions?