

Status report NIKHEF

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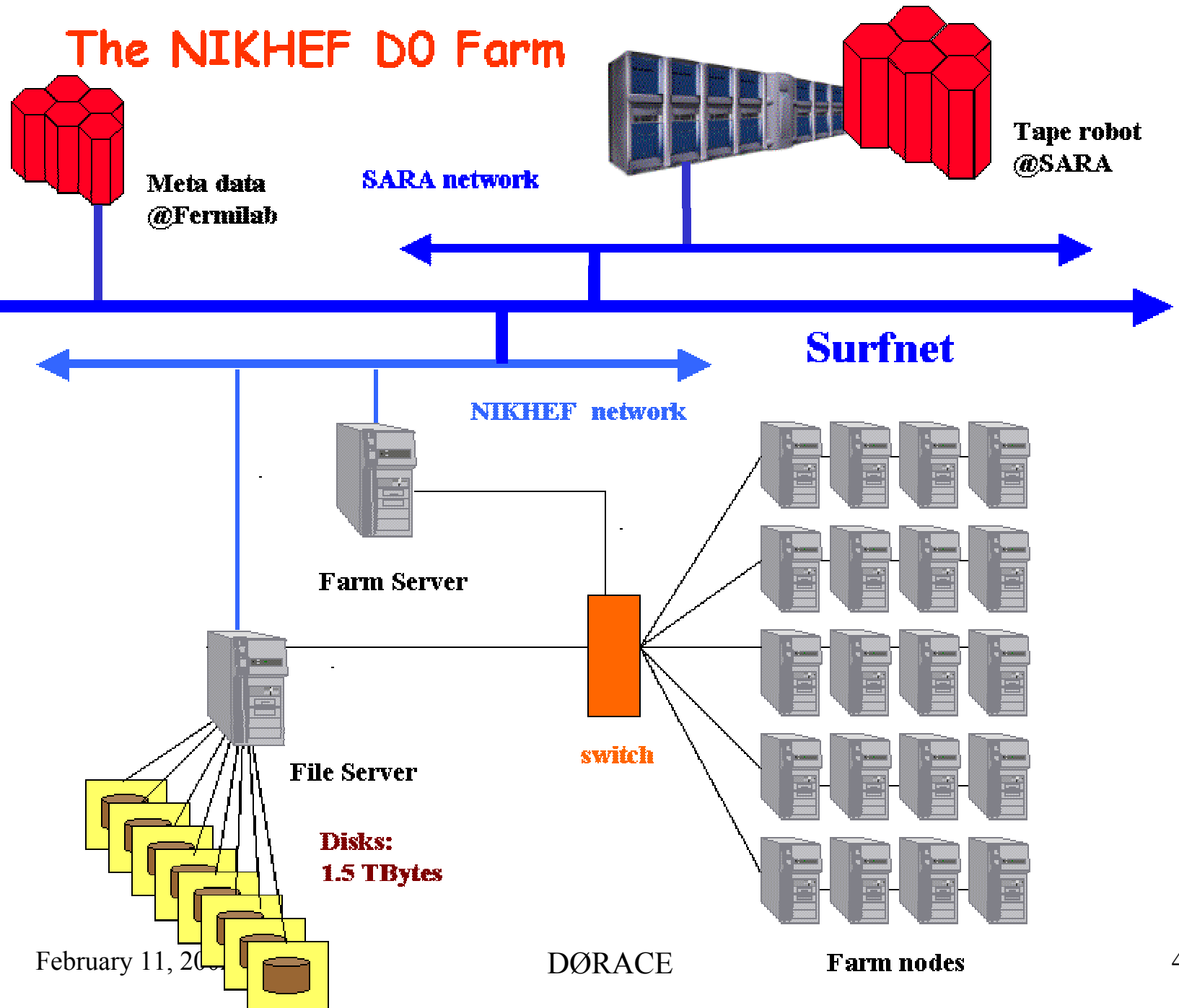
Outline

- NIKHEF DØ farm
 - www.nikhef.nl/~bosk/farm/farm.htm
 - www.nikhef.nl/~a03/farm/status.html
- SAM
- UPS/UPD
- Grid activities @ NIKHEF

The NIKHEF DØ farm

- Batch server (hoeve [farm])
 - Boot/Software server
 - Runs mc_runjob
- File server (schuur [barn])
 - Runs SAM
- 50 + dual cpu nodes
 - Run MC jobs

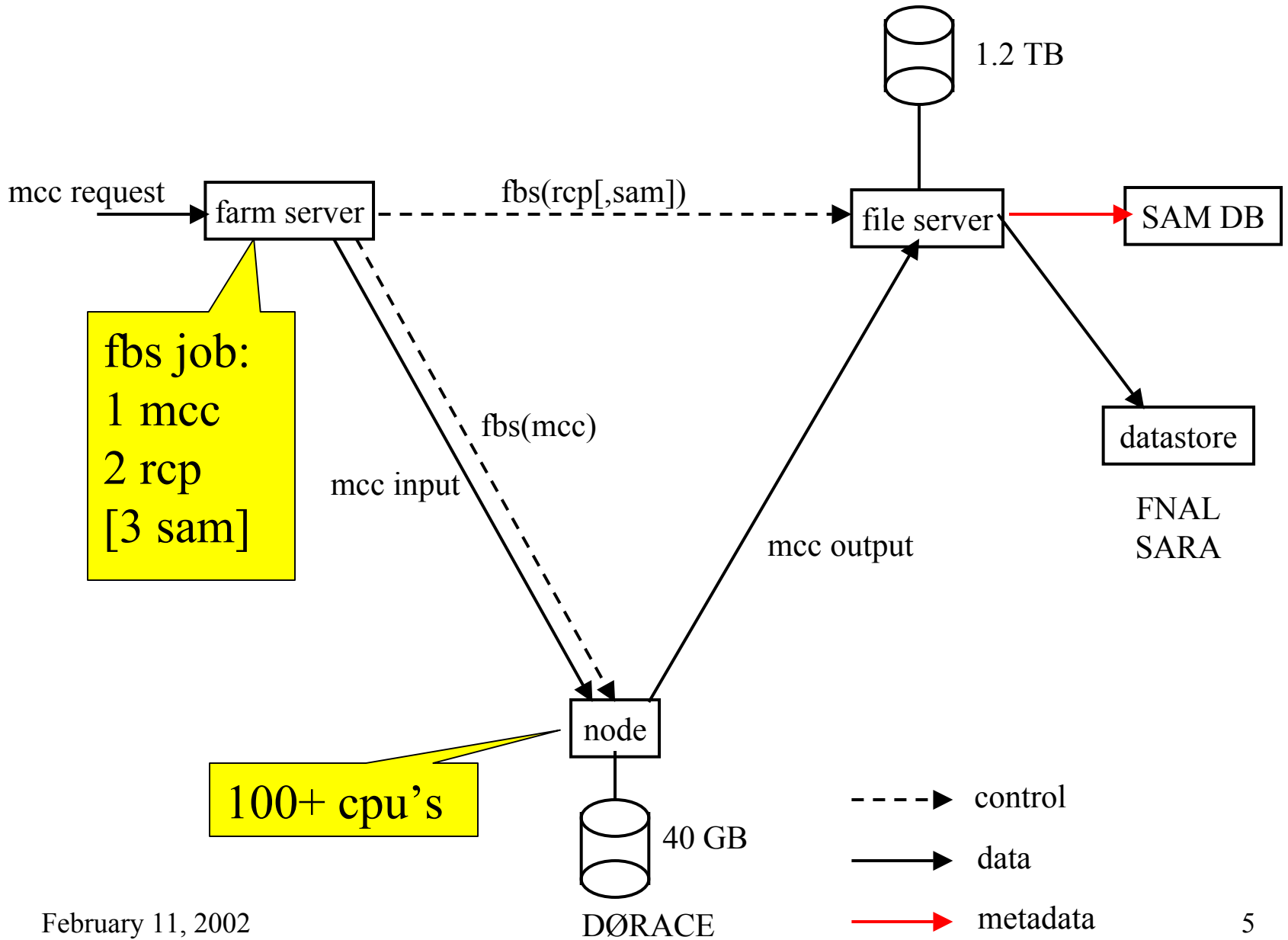
The NIKHEF DO Farm



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DØRACE

Farm nodes



SAM @ NIKHEF

- Stores metadata in database at FNAL
 - `sam declare import_<jobstep>.py`
 - scripts prepared by `mc_runjob`
- Stores files
 - on tape at fnal via cache on d0mino
 - on disk of `teras.sara.nl` and migrated to tape
 - `sam store --descrip=import_<jobstep>.py`
[`--dest=teras.sara.nl:/sam/samdata/y01/w42`]

SAM @ SARA

- No need to install SAM or UPS/UPD ☺
- Declare teras directories in SAM as destination
- Access protocol
 - May 2001 rcp
 - October 2001 bbftp
 - ??: gridftp

SAM @ NIKHEF

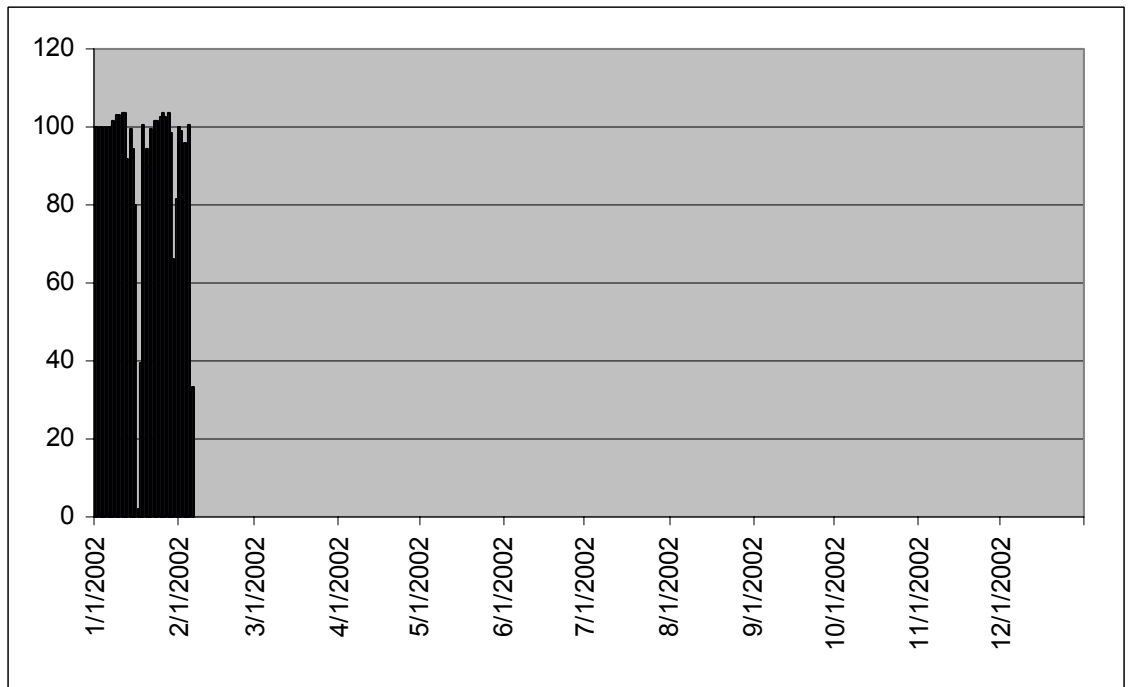
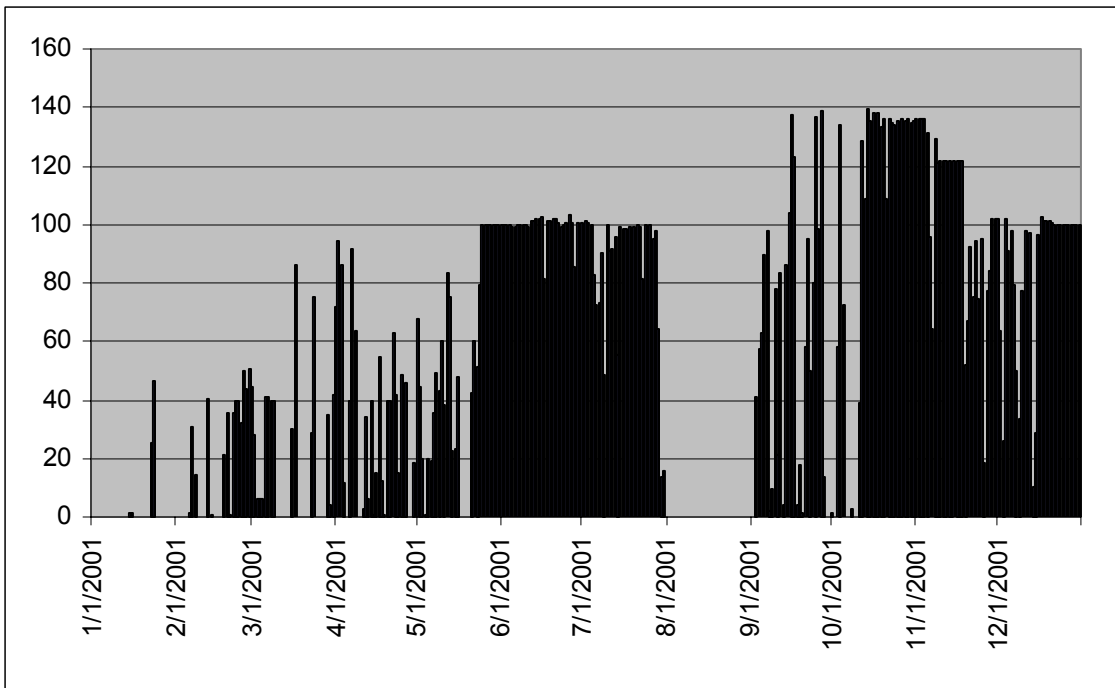
- is full simplex
 - declare/store only
- **Recommended action: Relax**
 - submit parallel streams of 50 reco and recoanalyze files
 - eventually wait for 6 hours
 - resubmit files which failed

UPS/UPD

- was difficult to install
- dØrace prescription works fine
 - for generic, not for DØ configuration
 - do not forget to unalias setup
- still complicated
 - many configuration options
 - different directory structures
 - still editing of database files necessary

grid activities @ nikhaf

- European Data Grid
 - Testbed
 - Alice farm
 - LHCb farm
- Dutch Data Grid
 - DAS cluster
 - 200 Dual Pentium-III nodes, distributed over 5 universities
- <http://www.dutchgrid.nl/>



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Conclusions

- NIKHEF DØ farm is
 - easy to use (Antares, L3)
 - easy to clone (Nijmegen)
 - part of DØ data grid
 - moving (slowly) to grid standards
- need for sam input is growing