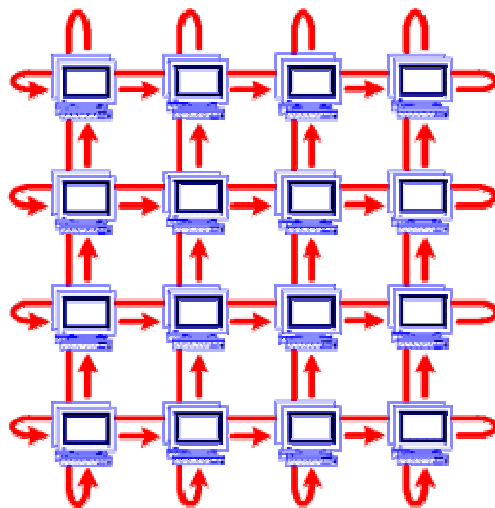


# Status of CAF

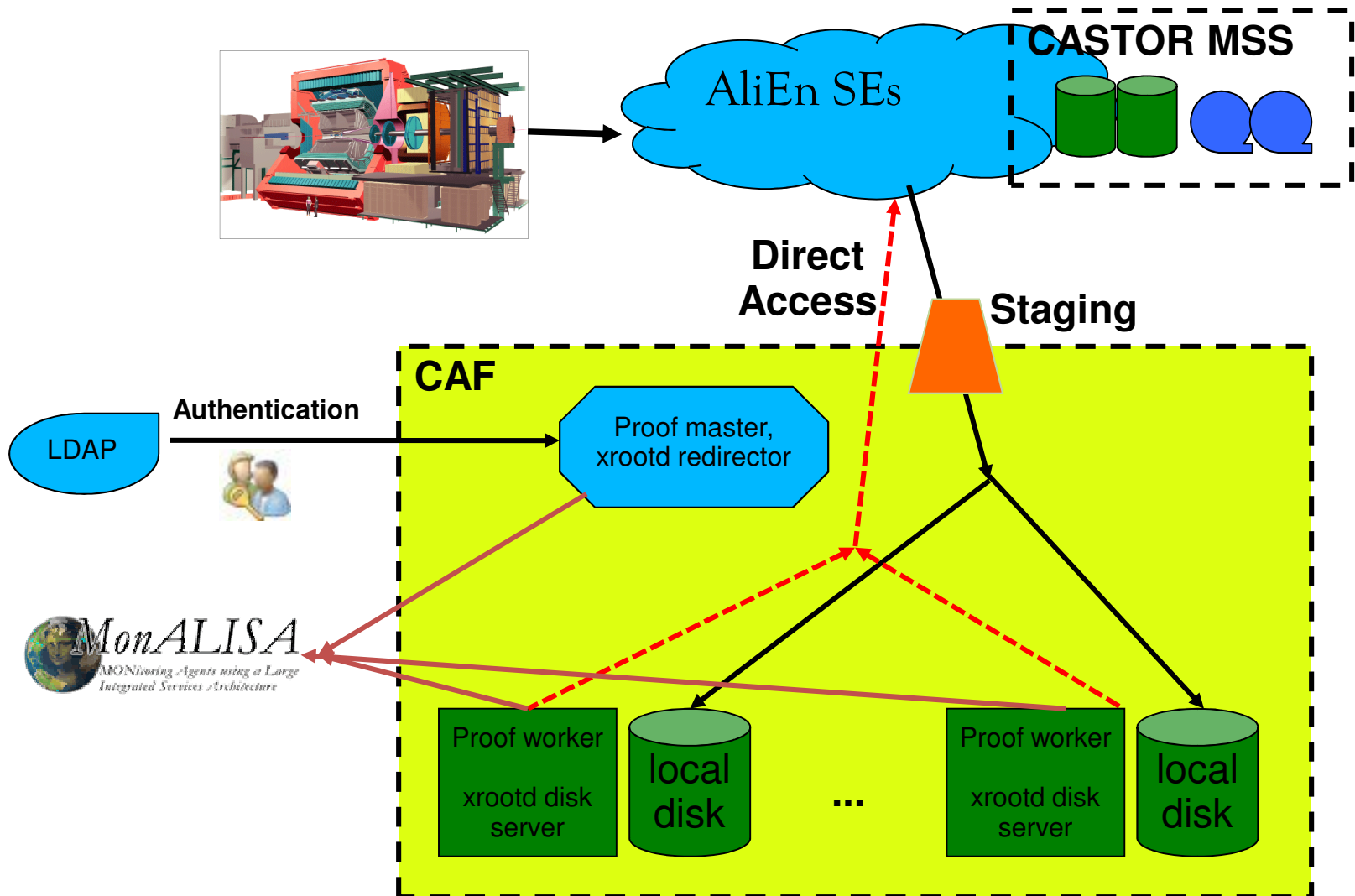


Marco MEONI  
Jan Fiete GROSSE-OETRINGHAUS

CERN - Offline Week - 28.10.2009



# CERN Analysis Facility (CAF)



# SW

- **ROOT v5-24-00a**
  - ROOT v5-25-02 in preparation
- **AliRoot v4-17-Release**
  - deployed to AFS and enabled via meta par-files containing no source code
    - AF-v4-17.par (loads VMC, Net, Tree, Physics, STEERBase, ANALYSIS, ESD, AOD, ANALYSISalice)
    - AF-v4-17-rec.par (enables the full AliRoot)
- **New features**
  - Direct access to Grid files (read/write)
  - Raw reconstruction (see Cvetan's talk)



How to use CAF at  
<http://aliceinfo.cern.ch/Offline/Activities/Analysis/CAF/index.html>

# HW

- Very few interventions on the CAF machines over the last 4 months

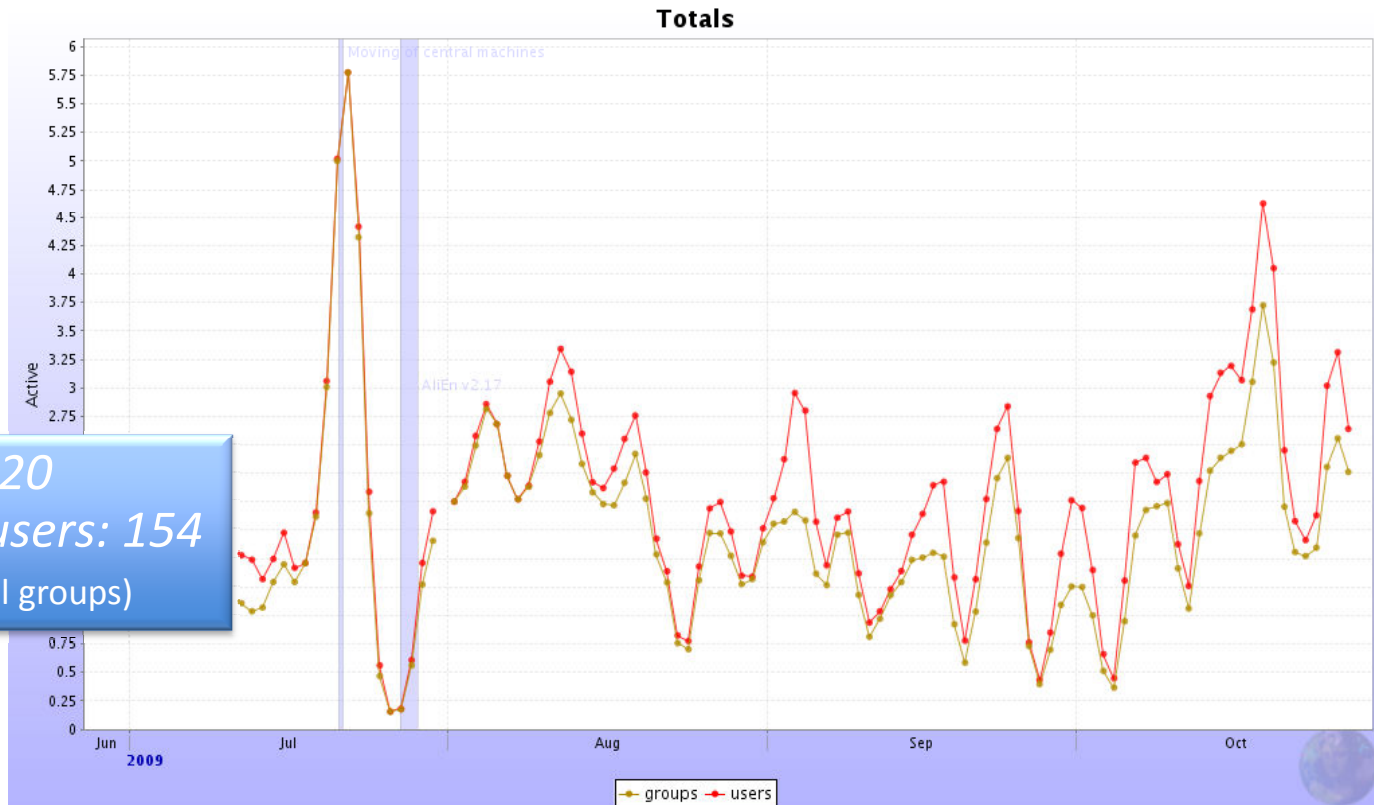
CAF	
Arch.	Intel Xeon
CPU	15 x 8-core (IT standard)
Disk	15 x 2.33 TB RAID5
Workers	26 (2/node)
Mperf	8570

- 30 more machines in two batches of 15
  - one by end November
  - one by beginning of next year with similar configuration

# CAF Usage

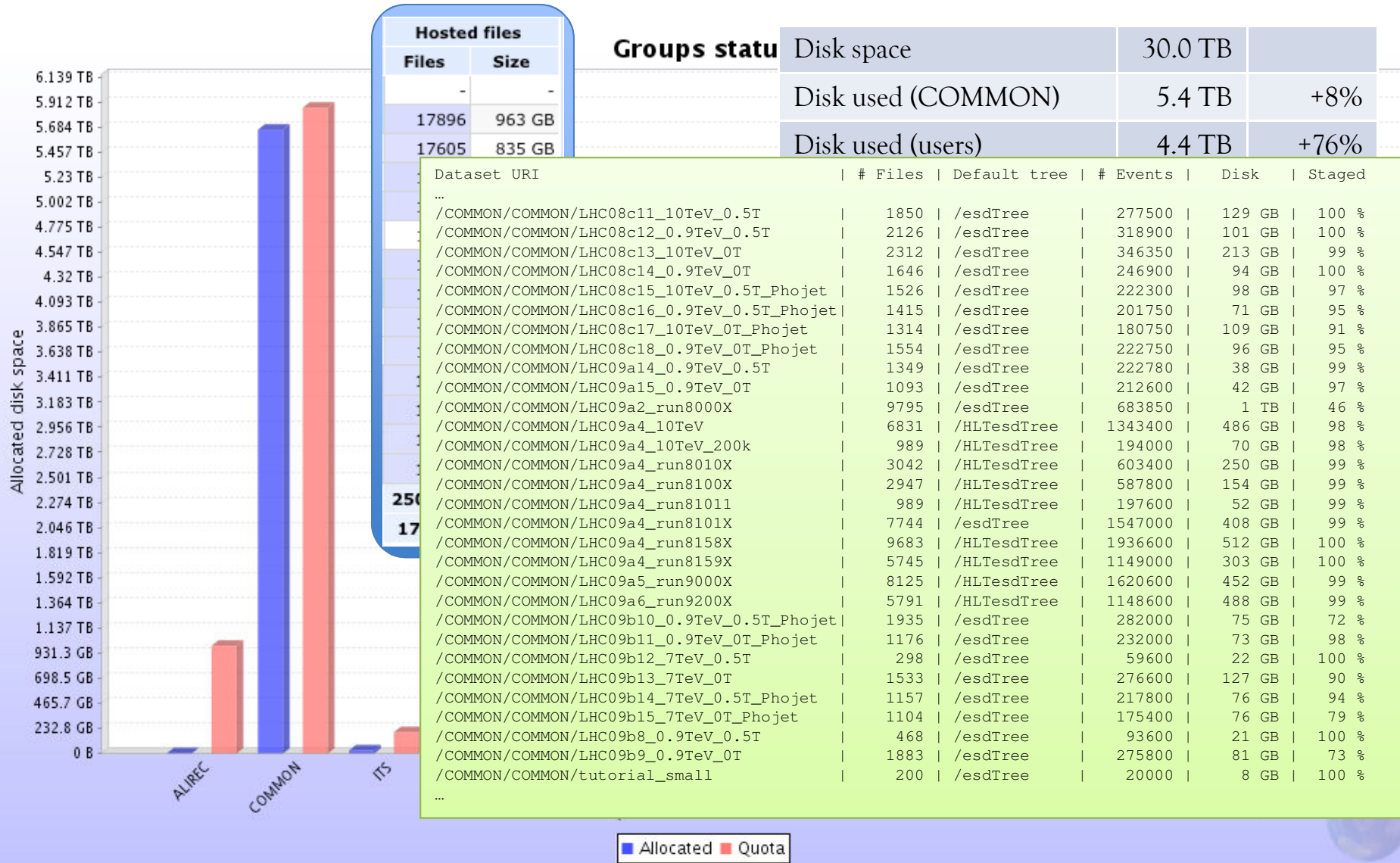
Groups	#Users
PWG0	21
PWG1	3
PWG2	57
PWG3	30
PWG4	44
13 SUB-DETECTORS	53
Not assigned	13

- Up to 21 users in parallel
- Not assigned users will be refused access to CAF in the future
  - They receive an email every hour  
CAF user 'foo' running in group 'default'



-Number of groups: 20  
-Number of unique users: 154  
(a user can belong to several groups)

# Dataset

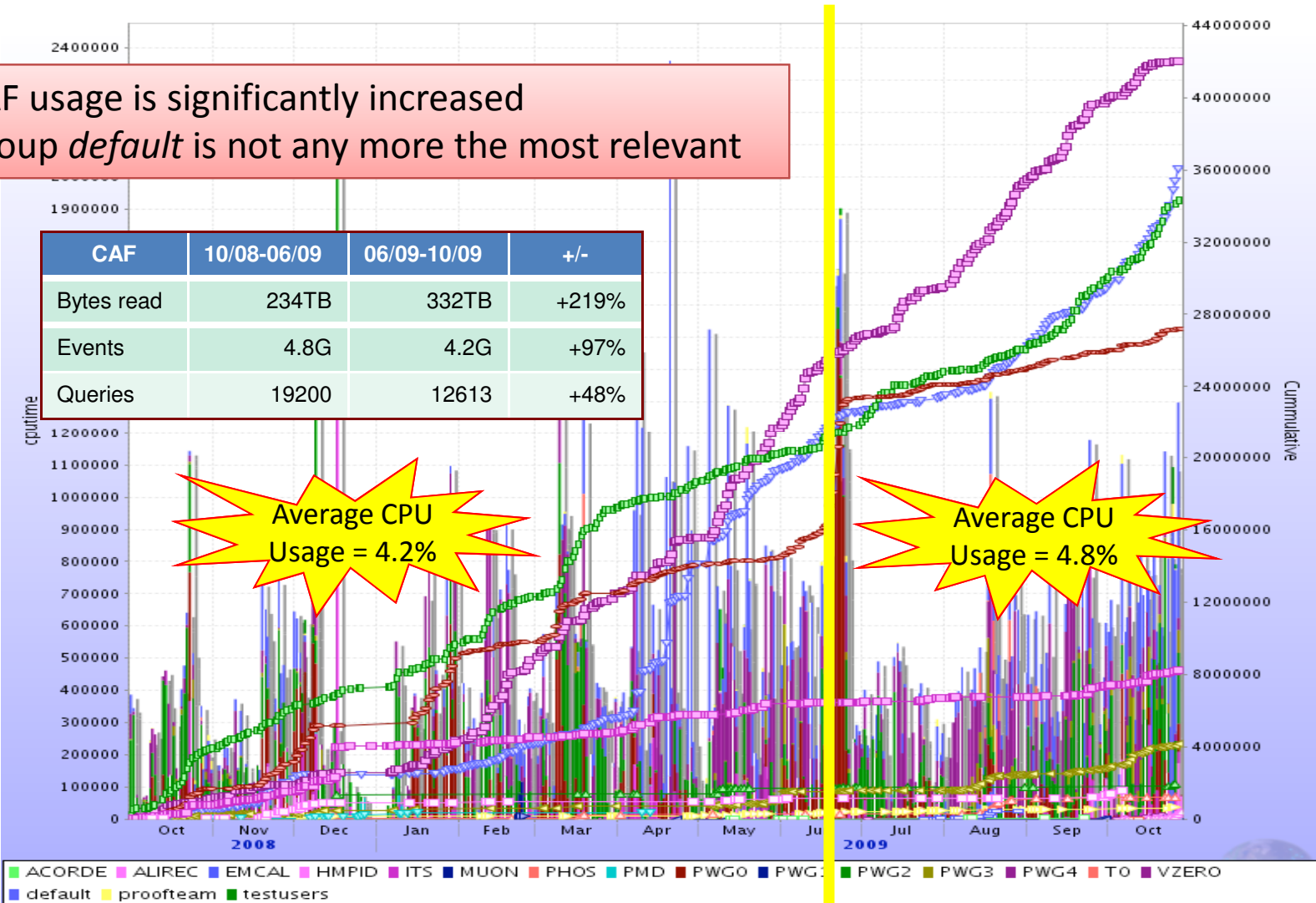


#DS has increased a lot and users should also remember cleanup

# CPU Usage

- CAF usage is significantly increased
- Group *default* is not any more the most relevant

CAF	10/08-06/09	06/09-10/09	+/-
Bytes read	234TB	332TB	+219%
Events	4.8G	4.2G	+97%
Queries	19200	12613	+48%



Average CPU Usage = 4.2%

Average CPU Usage = 4.8%

9 months,  $2.47 \times 10^9$  secs  
 CPUtime =  $1.03 \times 10^8$  secs

4 months,  $1.1 \times 10^9$  secs  
 CPUtime =  $0.53 \times 10^8$  secs

# Overview

- CAF
  - Reached a proved stability, few reboots
  - Current SW suite includes ROOT v5/24-00a + AliRoot v4-17-Release
- User support
  - Monthly tutorials at CERN, ~700 people attended so far
  - Mailing list: [alice-project-analysis-task-force@cern.ch](mailto:alice-project-analysis-task-force@cern.ch)
  - Web page: <http://aliceinfo.cern.ch/Offline/Analysis/CAF>
- Under development
  - Top hits in Gerri's talk
- Regular biweekly meeting among CAF/PROOF/Grid experts