

CDF Plans at CNAF

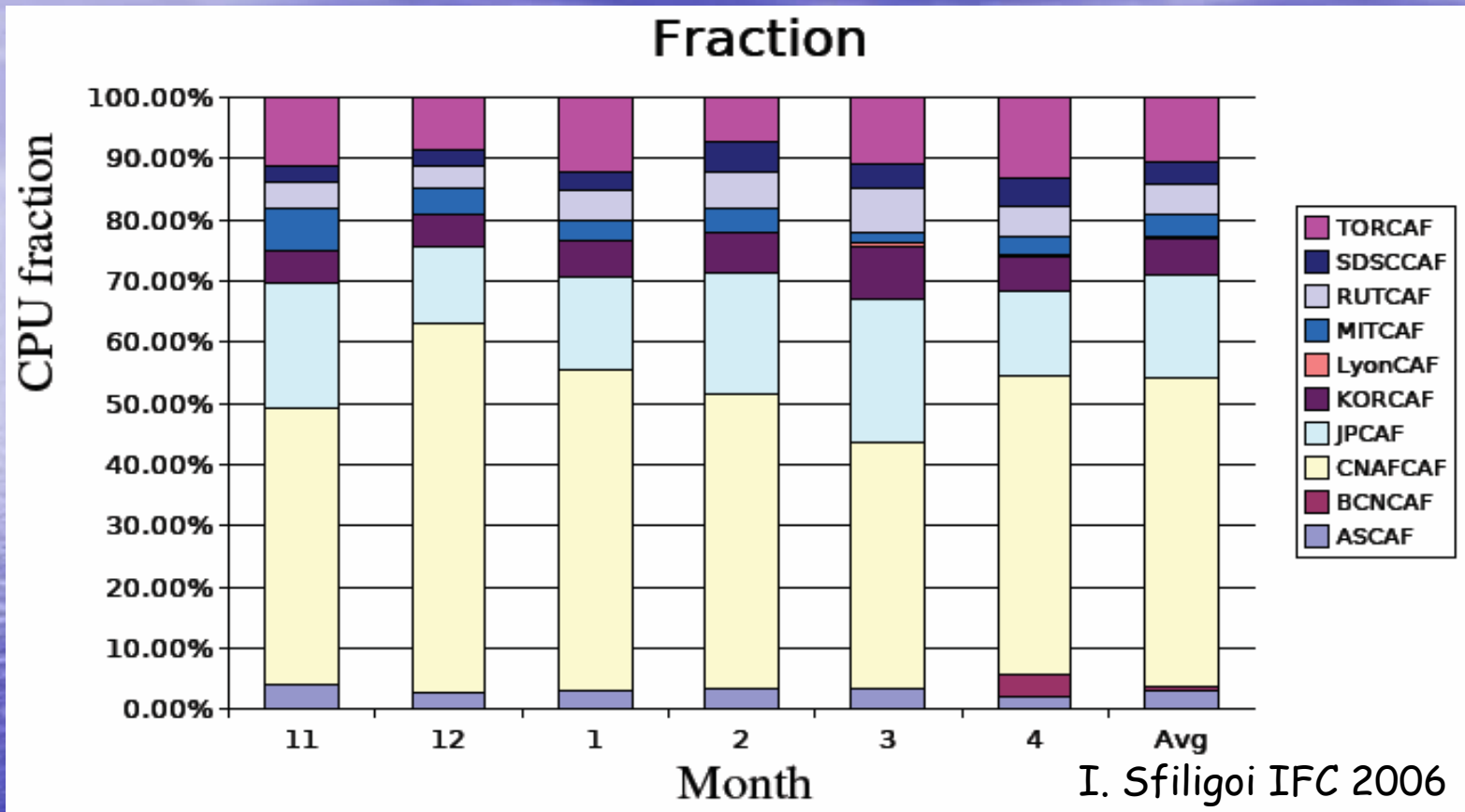
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University and INFN Padova

CDF Collaboration Meeting
La Biodola - Elba Island - Tuscany - Italy
June 2-10, 2006

Outline:

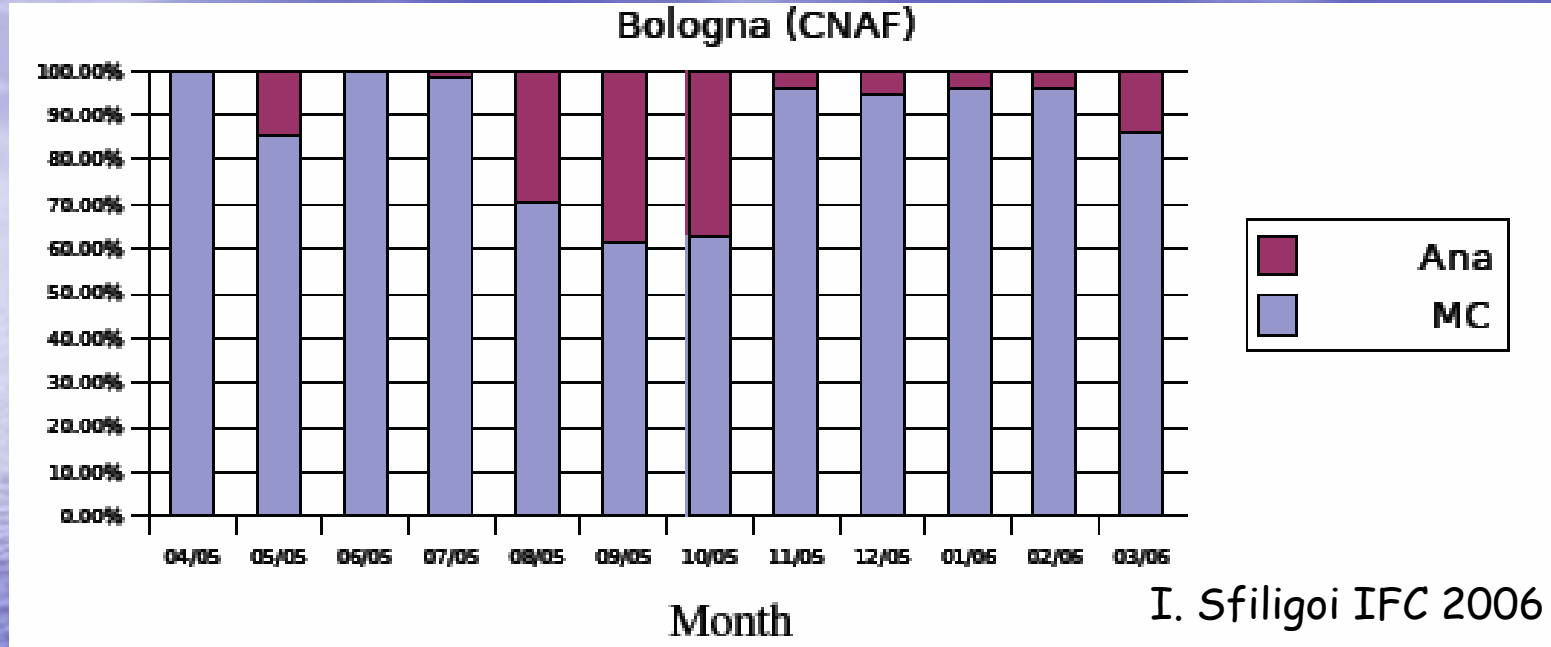
- CNAF usage up today
- CNAF data availability and access
- Monte Carlo production and storage

CNAF cpu usage vs. other dCAF



~50% of the outside cpu is coming from CNAF

CNAF cpu usage



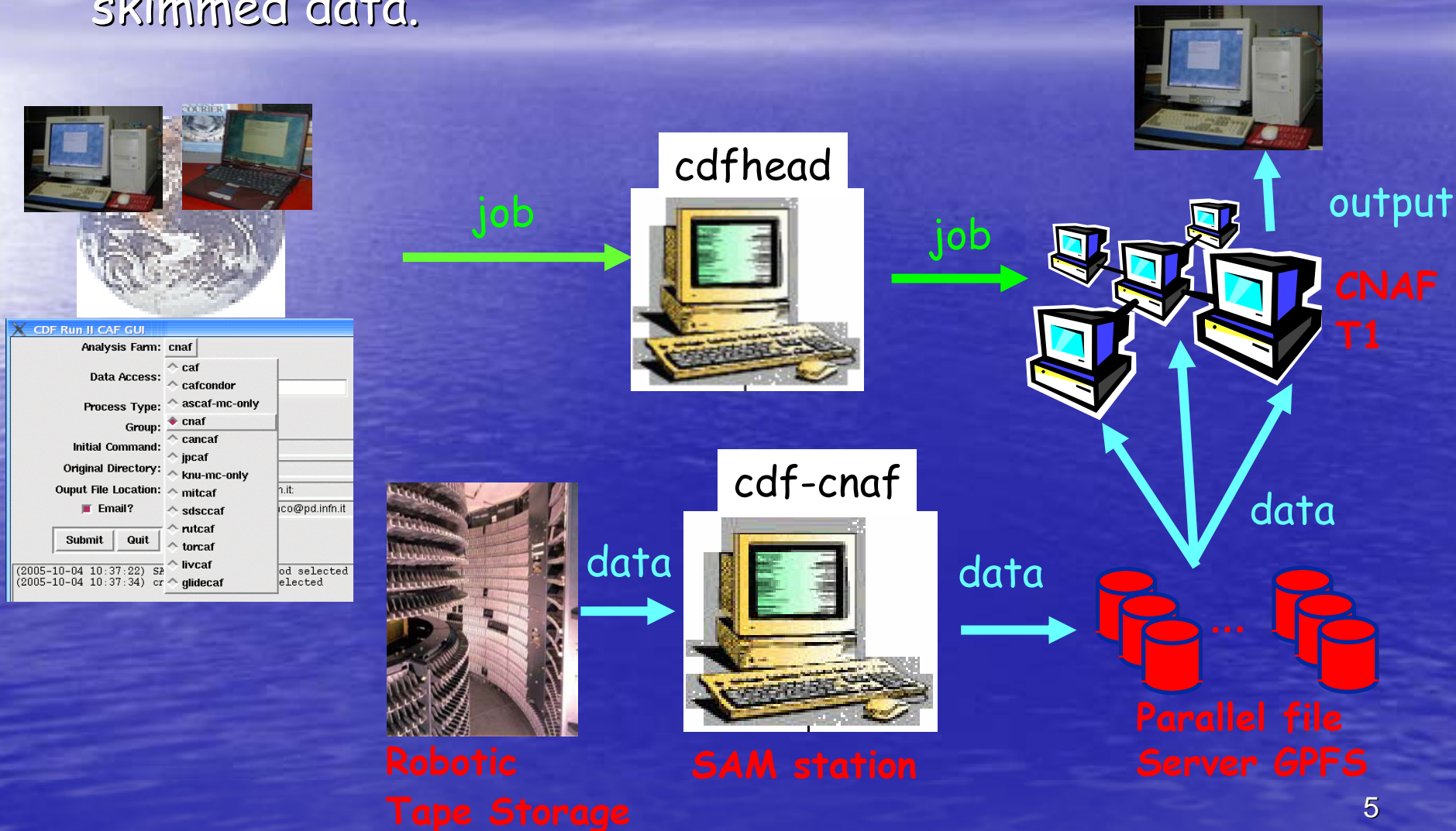
Some data has been processed at CNAF

CNAF snapshot

- Tier 1 resources: ~1800 KSI2K
- CDF has high priority on ~500 KSI2K
- Fair share calculated over 1 month, now changed to 10 days
- Two SAM stations: cdf-cnaf, cdf-cnaf-1
- CDF VOMS (Virtual Organization Membership Service)
- Disk space:
 - 65 TB SAM cache
 - 5 TB icaf
 - 1.7 TB Storage Element

Data Analysis

- The glide-in is used to access CNAF-Tier1 resources
- The SAM station "cdf-cnaf" hosts BCHARM datasets, skimmed data.

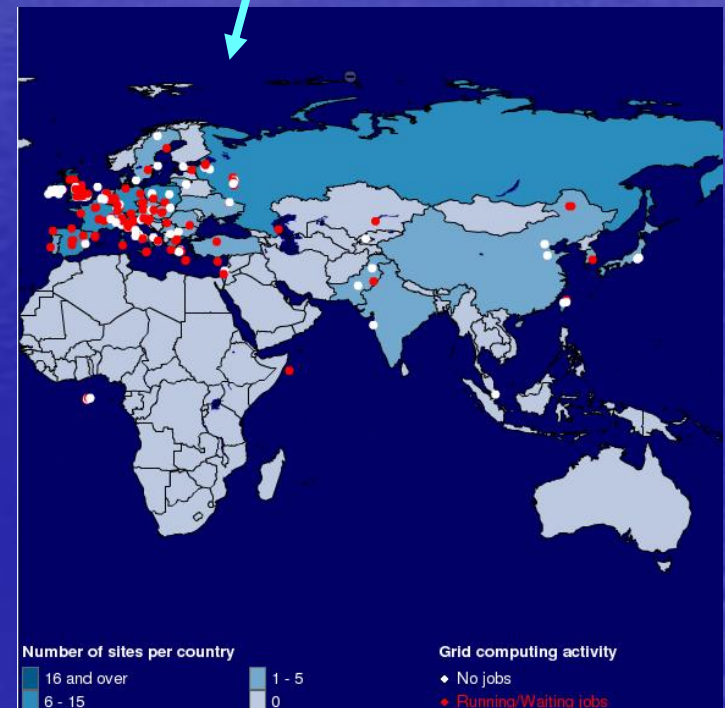


Physics Center Plan

- Implement an automatic procedure to store at CNAF:
 - B data in any form: BCHARM dataset and/or skimmed datasets and/or Bs-ntuple
 - st-ntuples for high-pt analysis, if neededQuite close to that, the "sam get dataset" command works quite well to import data
- List of available datasets:
<http://cdfsam-prd.fnal.gov/~sam/Datasets/cdf-cnaf.html>
- Provide users running on data at CNAF with icaf area ~5TB available on total, access via icaf tools and rootd
- Necessary disk space available
- A minimum number of cpu guarantee in the future also when LHC will start

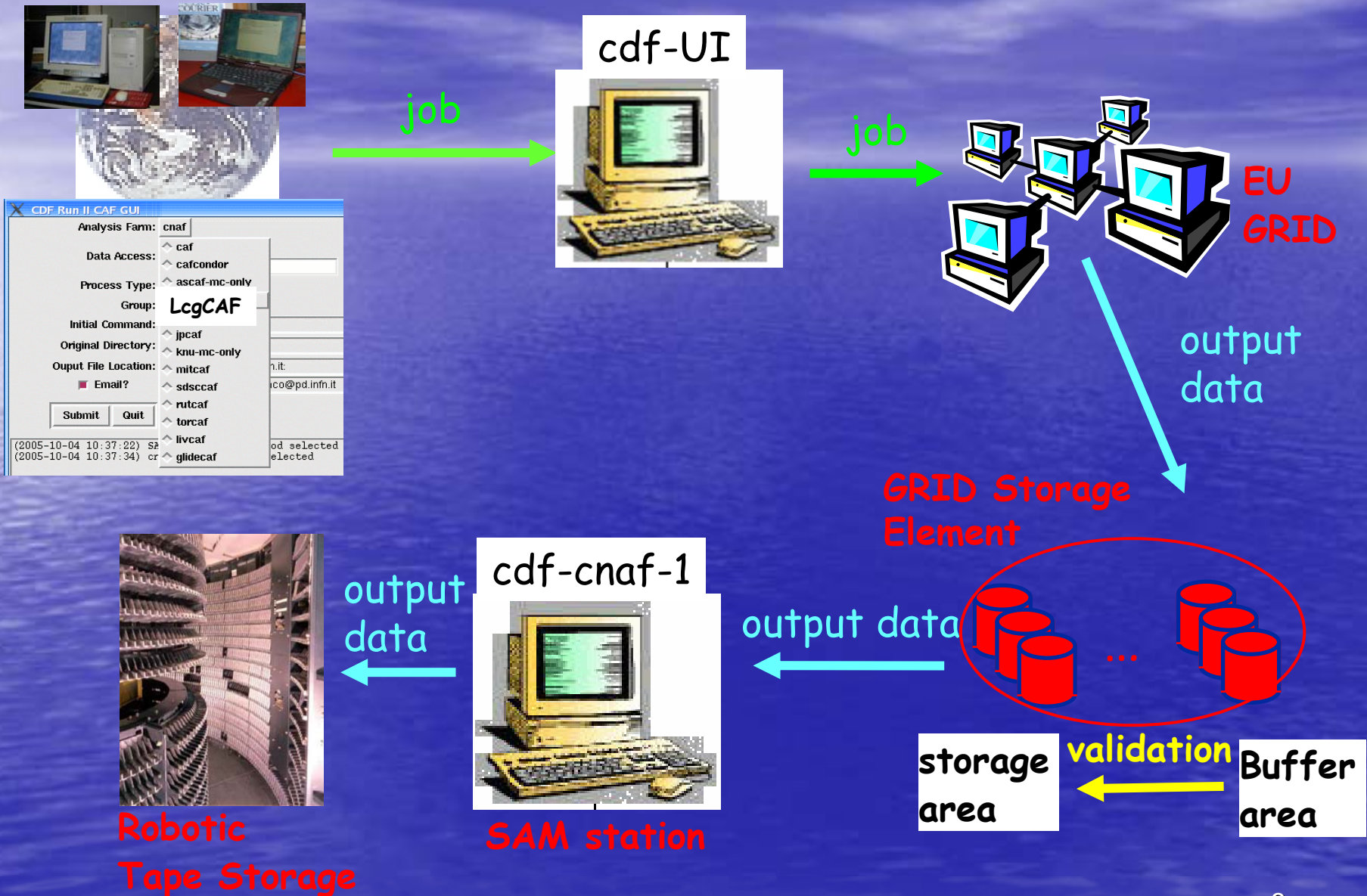
Monte Carlo Production

- **LcgCAF** (see Francesco talk): portal to access the European GRID.
Developed by Francesco Delli Paoli, D. Jeans, S. Sarkar, I. Sfiligoi and D.L.
- Access to all Italian resources and many EU sites



- Job output copied to user disks


Monte Carlo Production Plans



Monte Carlo Production Plans cont'd

- B Monte Carlo produced (and being produced) on LcgCAF by power users:
F. Delli Paoli, D. Jeans, S. Pagan, S. Sarkar, D. L.
- Now open to everyone who wants to try!
- The full schema not in place, the output has to be copied to FNAL

Summary and Conclusions

- CNAF and INFN supported and will support CDF with cpu, disk space and man power
- Keep maintenance:
 - CDF VOMS
 - CondorCNAF
 - LcgCAF
- CondorCNAF has dedicated resources, under discussion how to balance with LHC arrival.
- Disk space will increase: 

Use year	Disk space (TB)
2005	51
2006	112
2007	161
2008	219

Open issues:

- ✓ Use LcgCAF to run on data
- ✓ Interface SAM w/ SRM (CNAF-FNAL project? Who?)
- ✓ Usage of Castor

To Conclude