

# Distributed Analysis within ATLAS/LCG

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# Distributed Analysis

- Data Analysis
  - AOD & ESD analysis
  - TAG based analysis
  - GANGA on LCG
- User Production
  - Production system
  - GANGA with DQ2 Integration
  - LJSF

# GANGA

- User tool for job definition and management
- Allows simple switching between testing on local system and large-scale data processon on distributed rescources (Grid)
- Text UI & GUI
- Integrated with ATLAS DDM/DQ2 system
- <http://cern.ch/ganga>
- <https://twiki.cern.ch/twiki/bin/view/Atlas/DistributedAnalysisUsingGanga>

# Data distribution

(from Dietrich Liko)

- Many datasets available at CERN, LYON and BNL
- Job priorities and short queues are being implemented
- Short queue: CERN, LYON, NIKHEF, FZK, RAL and some Tier-2
- Priorities: NIKHEF, CERN, IFIC (PPS)
- As of today one can perform distributed analysis at CERN, in LYON and (FZK)
- We hope that within this year all the other Tier-1
- centers and some Tier-2's will follow

# How to find Datasets

- AMI Metadata
  - <http://ami3.in2p3.fr:8080/AMI/>
- Production system database
  - <http://cern.ch/atlasphp/DbAdmin/Ora/php/4.3.4/proddb/monitor/Datasets.php>
- Dataset browser
  - <http://gridui02.usatlas.bnl.gov:25880/server/pandamon/query?overview=dslist>
- Dashboard
  - <http://lxarda07.cern.ch/dashboard>
  - Still underconstruction, Firewall issues

# CSC11 AOD data at Tier1s

	Datasets	Complete	Files	Size
ASGC	96	14	5634	520
BNL	226	131	17053	1736
CERN	253	106	16610	1712
CNAF	1	0	217	39
FZK	16	3	1510	172
LYON	72	13	6518	786
RAL	10	1	589	93
SARA	2	0	251	38
PIC	7	3	916	105
TRIUMF	7	3	510	77

# CSC11 ESD data at Tier1s

	Datasets	Complete	Files	Size
ASGC	62	6	3344	2721
BNL	141	96	11494	9507
CERN	99	7	4372	4569
CNAF	2	1	163	213
FZK	0	0	0	0
LYON	1	0	1	1
RAL	8	0	403	428
SARA	1	0	1	1
PIC	1	0	147	193
TRIUMF	5	2	555	18

# Conclusions

- Like to import most csc11 AOD to FZK and then distribute to Tier2s
- Exercise Distributed Analysis with GANGA to test the system and test site configurations