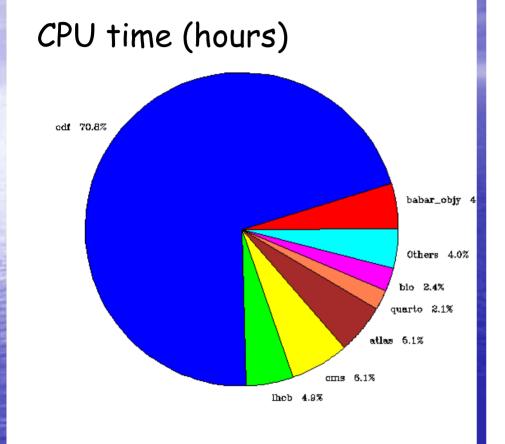
CDF Status

Donatella Lucchesi for the CDF Italian Computing Group INFN Padova

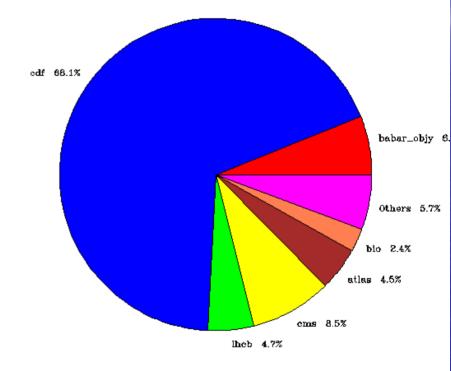
Report on:

- > Tier1 usage
- > lcgcaf seen by GRID
- > CDF issues

Last month Tier 1 usage

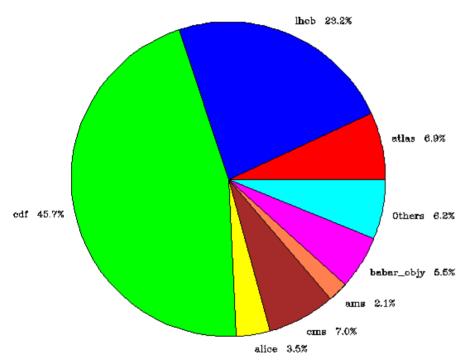


Total time (hours)

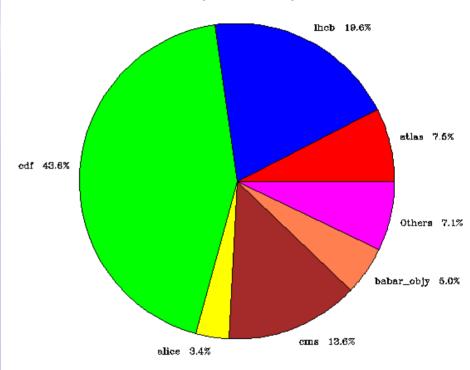


Last year Tier 1 usage



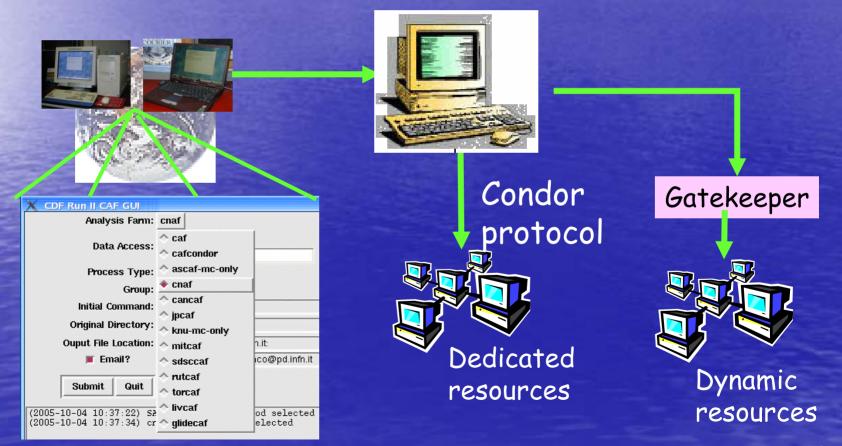


Total time (hours)



Current CDF access to Tier 1 Resources

- We use the glide-in, an "opportunistic" use of resources. Developed by S. Sarkar with I. Sfiligoi help
- > It is stable and it has high performances
- > Used for Monte Carlo production and data analysis (CNAF)



Full GRID: "lcgcaf"

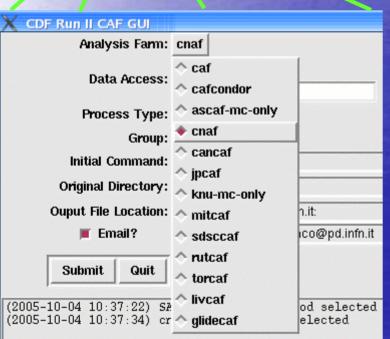


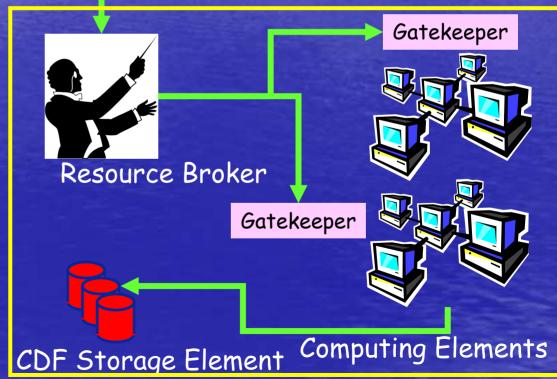
Secure connection

via Kerberos



Head node ≅ User Interface



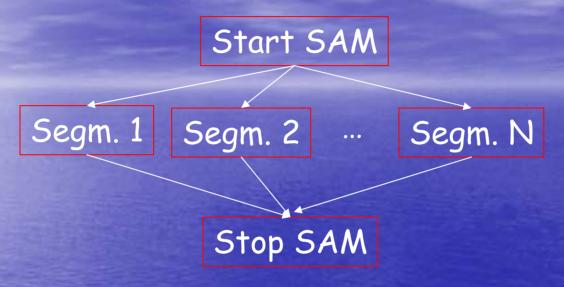


General requirements and characteristics:

- > VOMS servers: voms.cnaf.infn.it (production) or cert-voms.cnaf.infn.it (pre-prod./cert.)
- Resource Broker: gLite 1.4.1 via WMproxy
- > AFS needed on all CE nodes
- The FNAL CA need to be fully supported. It seems that it has to be installed by hand each time....at least for Europe

Submission

RB gLite 1.4.1 via WMproxy. A simple DAG with N~1000:



- > SAM = the CDF catalog
- No automatic bookkeeping, no method to resubmit failed jobs, user by hand.
- No automatic merge of output.
- Summary of jobs outcomes: an email sent to users with success/fails, input/output files, N events obtained from LB query (glite-wms-job-logging-info, glite-job-status)

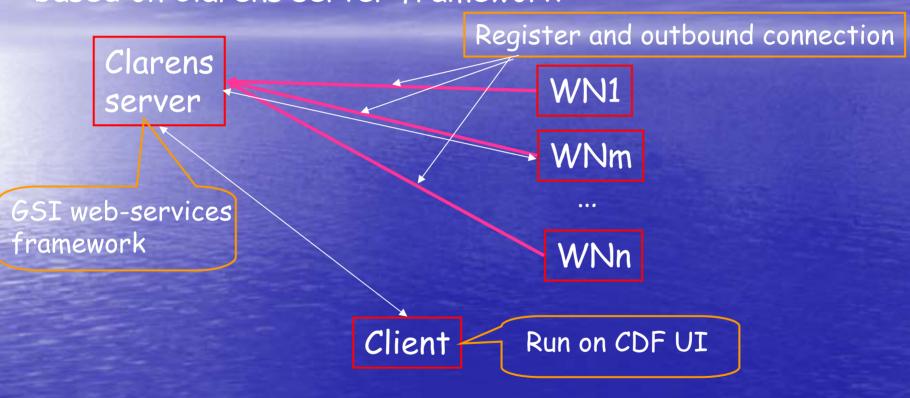
7

Catalogs

- ➤ SAM is used as catalog for data and right now also as disk space manager but really painful.
 January 18-19en a CDF workshop at FNAL on "Data Handling at remote site".
 Under discussion also: SAM/SRM interface.
 Need to collaborate also with CNAF to make it CASTOR compliant
- Calibration database is centralized at FNAL and cached at CNAF via Frontier. No problems till now.

Monitoring

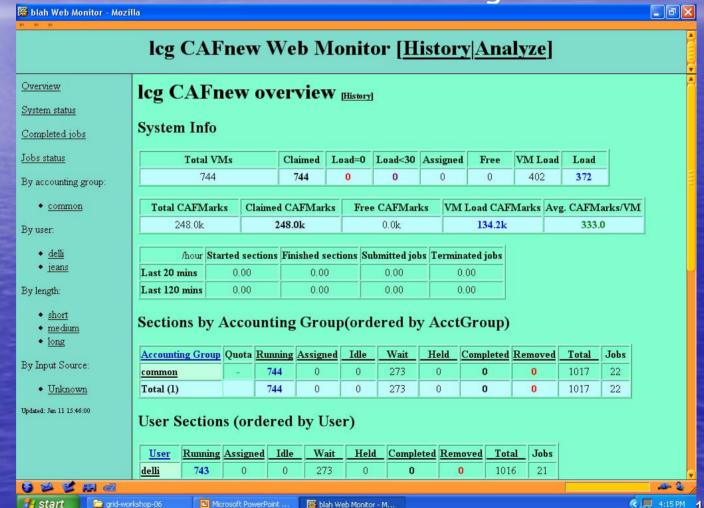
Job monitoring: JobMon (VDT, official supported by OSG) based on Clarens server framework



User command: JobMon job-n_segment-m "ls -ltr"

Monitoring

CDF jobs summary: web monitoring. Every 5 minutes queries to LB services and information caching. If RB does not work no monitoring!





lcg CAFnew Web Monitor [History|Analyze]

Overview

System status

Completed jobs

Jobs status

By accounting group:

• common

By user:

• <u>delli</u> • <u>jeans</u>

By length:

- short
- medium

• long

By Input Source:

• <u>Unknown</u>

Updated: Jan 11 15:46:00

lcg CAFnew	jobs for	user delli	
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[Status|Long]

Job	Priority	<u>User</u>	Accounting <u>User</u>	Length	Submit Time	<u>Total</u>	Runn ing	<u>Assi</u> gned	<u>Idle</u>	Wait	Held	Comp leted	Remo ved	Fail ed	Trou bled		100000000000000000000000000000000000000
904	10.00/999	<u>delli</u>	common.delli	long	Dec 29 16:10	300	287	0	0	13	0	0	0	0	0	0	0
905	10.00/999	<u>delli</u>	common.delli	long	Dec 30 09:32	300	57	0	0	243	0	0	0	0	0	0	0
906	10.00/999	delli	common.delli	long	Jan 03 16:26	100	100	0	0	0	0	0	0	0	0	0	0
907	10.00/999	<u>delli</u>	common.delli	long	Jan 04 10:58	100	99	0	0	1	0	0	0	0	0	0	0
908	10.00/999	<u>delli</u>	common.delli	long	Jan 04 11:14	100	100	0	0	0	0	0	0	0	0	0	0
909	10.00/999	<u>delli</u>	common.delli	long	Jan 04 11:22	100	100	0	0	0	0	0	0	0	0	0	0
911	10.00/999	<u>delli</u>	common.delli	long	Jan 09 12:03	1	0	0	0	1	0	0	0	0	0	0	0
912	10.00/999	<u>delli</u>	common.delli	long	Jan 09 12:04	1	0	0	0	1	0	0	0	0	0	0	0
913	10.00/999	<u>delli</u>	common.delli	long	Jan 09 12:05	1	0	0	0	1	0	0	0	0	0	0	0
914	10.00/999	<u>delli</u>	common.delli	long	Jan 09 12:05	1	0	0	0	1	0	0	0	0	0	0	0
4	10.00.000	, ,,,	1111	,	T 00 10 0C		_	_		4		_		_	_		Ĉ











User and group policies

- > Currently nothing!
- > Queues and disk space useful for CDF -> GPBOX
- > History and priority per user?

GRID Performances for CDF

From November up to now 60 dag of 100-300 segments. + recovery of ~40 segments

- > 20 unknown status. Bug on LB, "status done" never register, jobs appear still running.
- > Now we can not submit, jobs remain pending.
- > Of the remain 40 dag->1200 segments:
 - o 97% done success
 - 2.0% aborted
 - 1.0% done failed

Many specifics errors: ~30% of them not useful (i.e. CE condor error)

CDF need to run every day.

This has been achived with the glide-in by submitting to the gatekeeper.

The submission via the WMS (gLite) it is too unstable to be used in production for the moment.