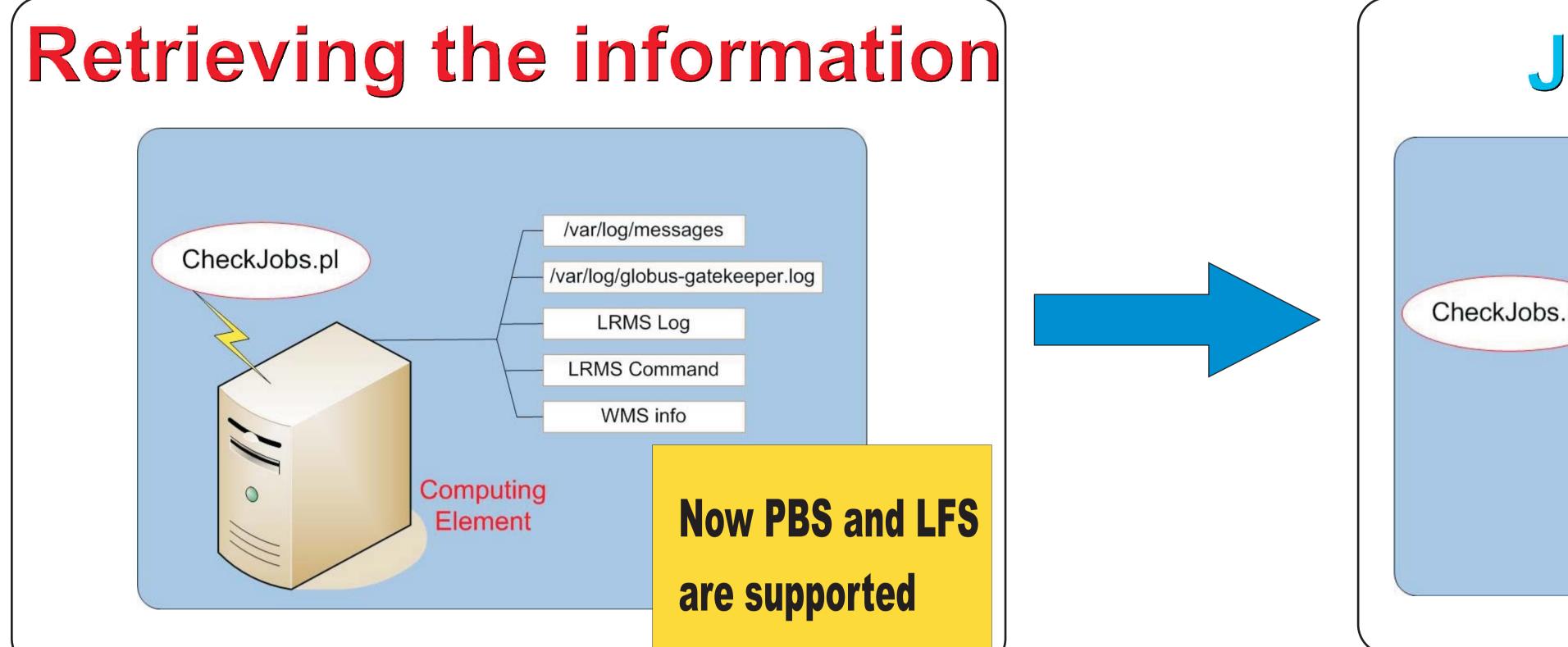
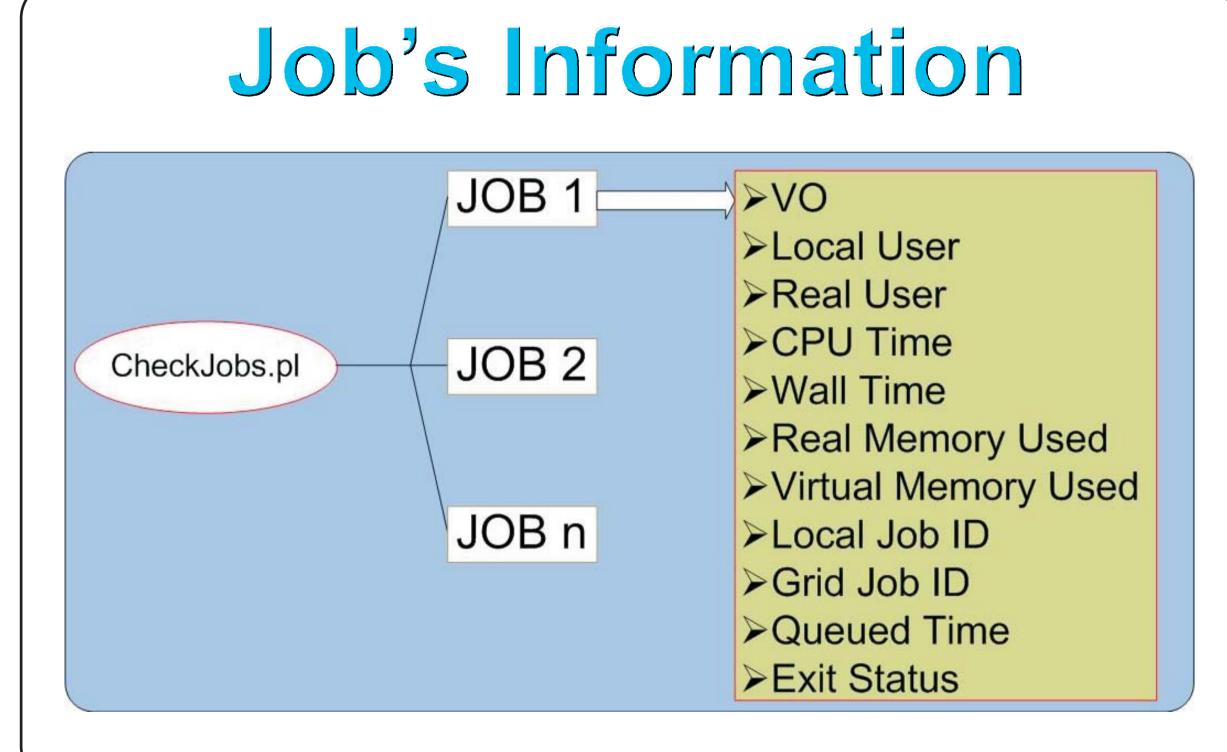


<u>G. Donvito</u>¹ - G. Tortone² - M. MAGGI¹ - G. MAGGI¹ - T. COVIELLO¹⁻³ - N. DE FILIPPIS¹ - A. PIERRO¹ ¹Dipartimento Interateneo di Fisica di Bari e INFN sezione di Bari (Italy) - ²INFN Napoli (Italy) - ³DEE Politecnico Di Bari (Italy)

What Job Monitoring can do:

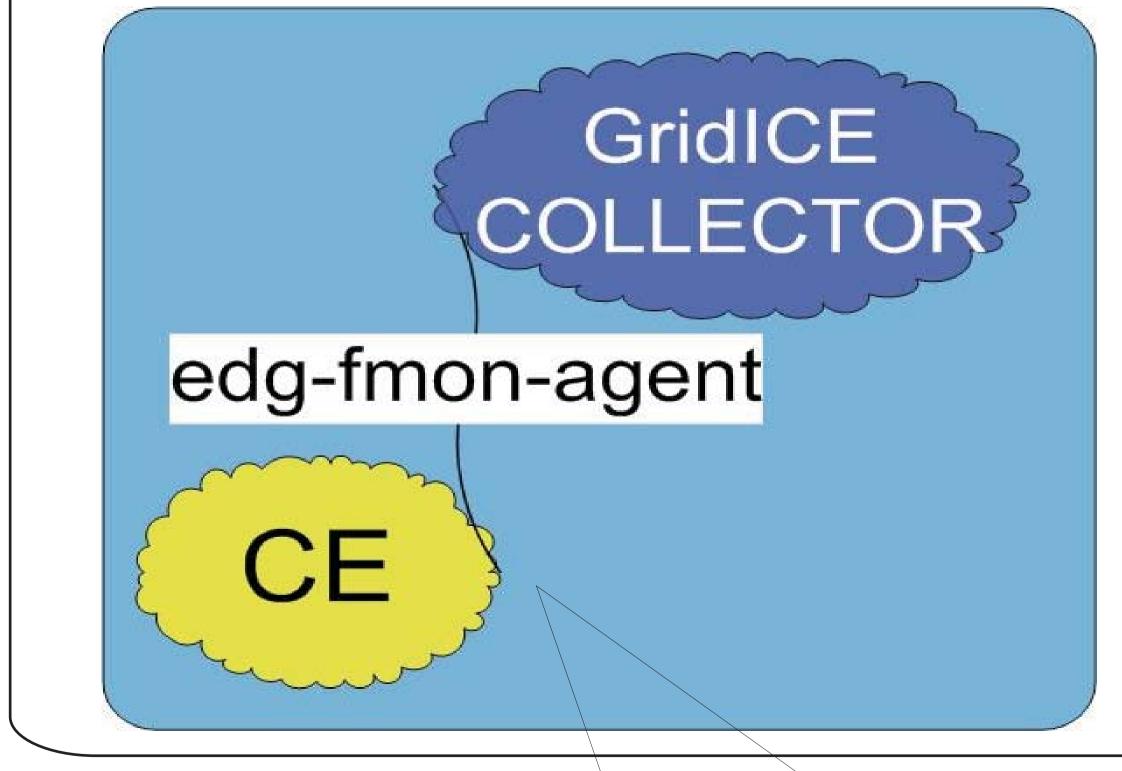
- Control the status of each job over the Grid
- Detect the "exit_status" of each job
 Measure how many resource the job is consuming (CPU Time, Resource Time, Real Memory, Virtual Memory)
 Group the informations of jobs by Virtual Organizations
- Group the informations of jobs by farm
- Group the informations of jobs by Real User
- The host information can be associated with job information
- Detailed historical graphics about all the information

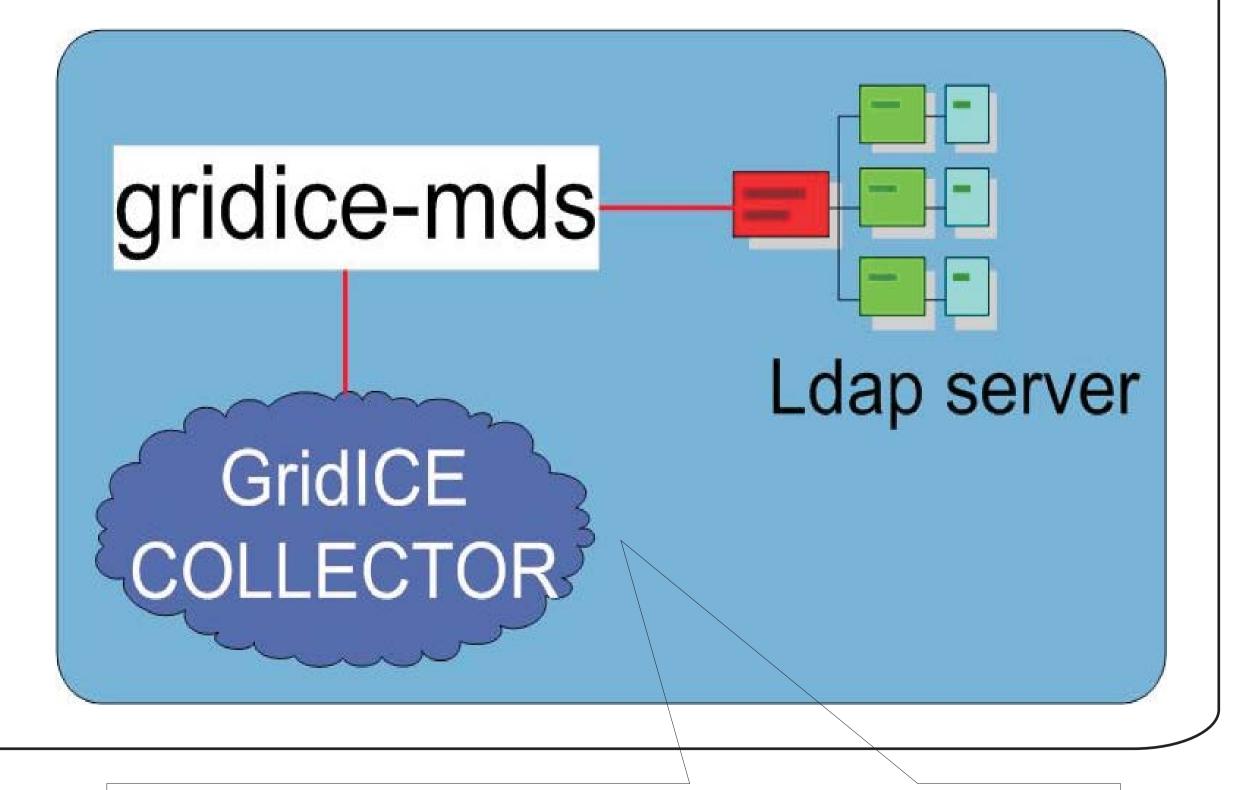




The informations about the jobs are retrieved on each CE from the logs and some commands. There is a perl script that runs periodically and check the logs. The CheckJob.pl retrieves many informations about each yob

Publishing Informations





The informations about the jobs are sent from the CE to the GridICE collector (normally the SE) via "edg-fmon-agent"

The GridICE collector publish all monitoring informations (including Job Monitoring Informations) via LDAP server



JOB-MONITORING OVER THE **GRID WITH GRIDICE INFRASTRUCTURE**

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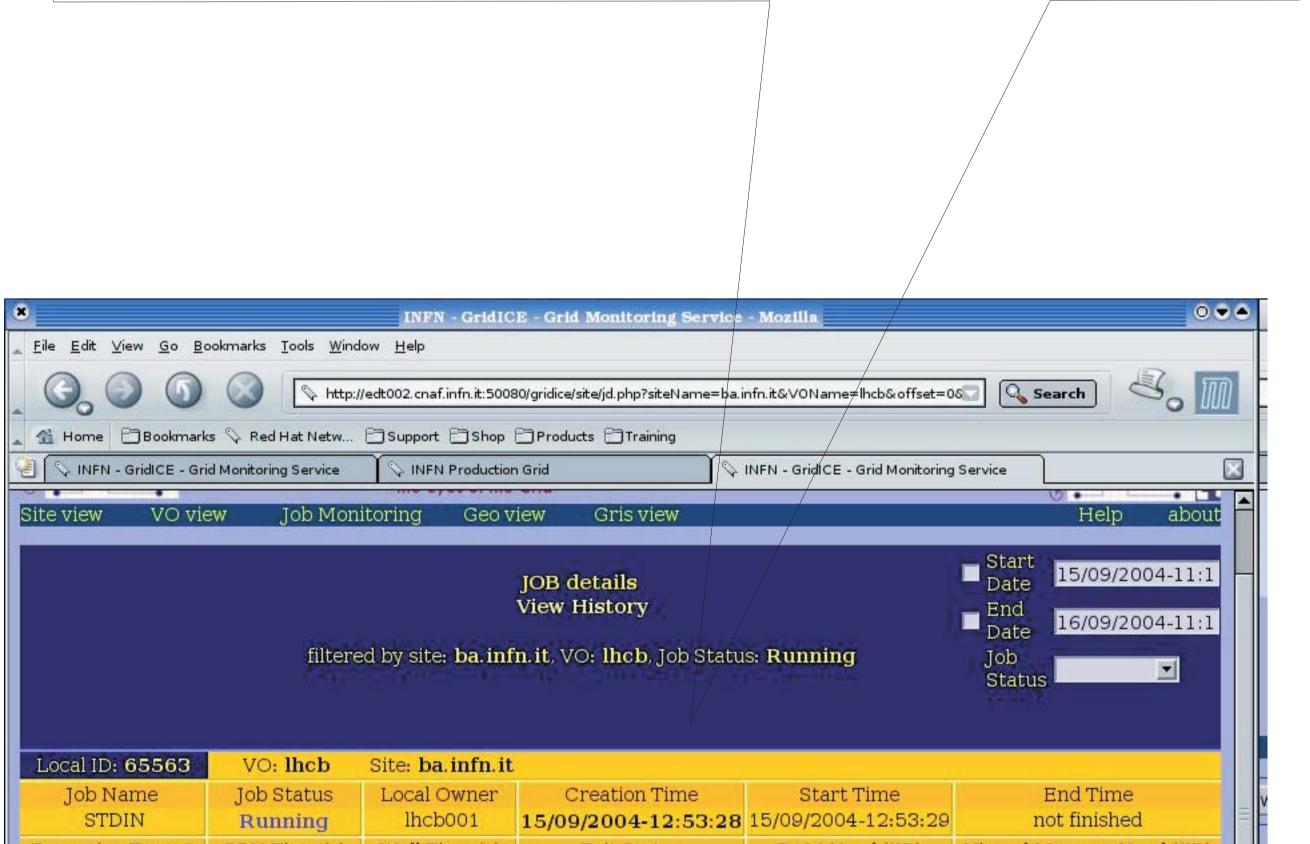
Web Page of Job Monitoring

Collecting Information	
GridICE Collector	
GridICE	

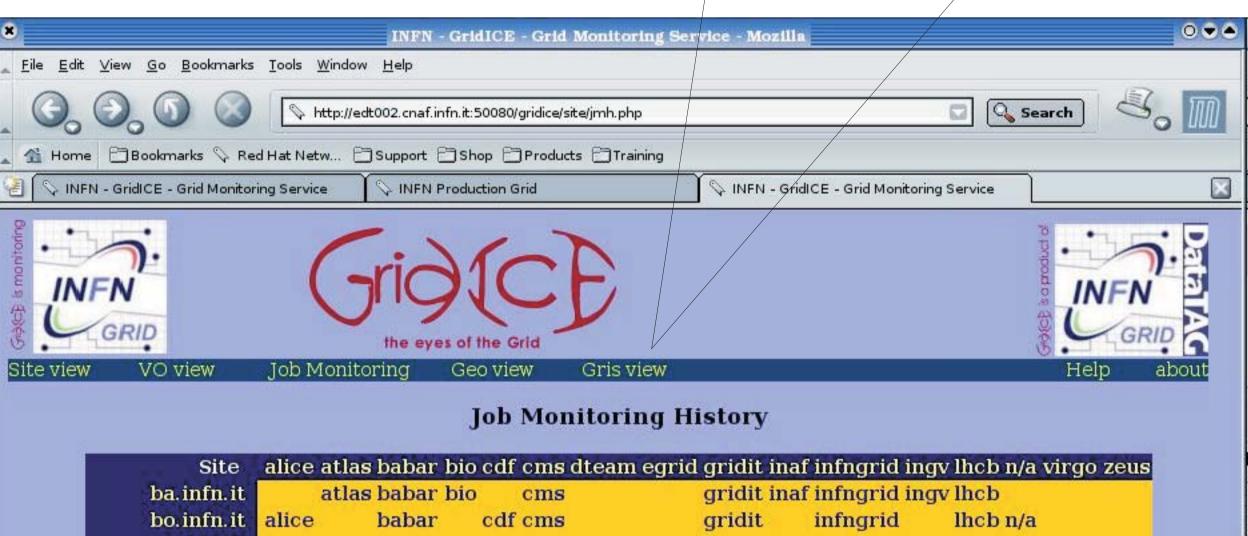
Collecting Information		Edit View Go Bookmarks Tools Window Control Co	id014.mi.infn.it:50080/gridice/si	cts 🗄 Training	Grid Monitoring Service	h 3.
GridICE Collector	Site vi	iew VO view Job Monito	the eyes of the Grid oring Geo view	B Gris view	Gatch soproduct of	INFN GRID Help ab
GridICE			Job	Monitoring ew History		
Collector		VO name J	obs Running	VO totals Jobs Queued	view graph Jobs Total	
GridICE		alice atlas dteam	76 469 20	7 26 297	83 495 317	
Collector SERVER		gridit lhcb TOTAL	0 78 643	1 23 354	1 101 997	
		VO name J	S obs Running	ite Name: ccc.ucl.ac.uk Jobs Queued	view graph Jobs Total	
GridICE		alice atlas dteam	57 144 0	2 0 1	59 144 1	
		lhcb TOTAL	49 250	20 23 Site Name: ft.uam.es	69 273 view graph	
		VO name dteam TOTAL	obs Running 1 1	Jobs Queued 0 0	Jobs Total 1 1	
		VO name J	Si Jobs Running	ite Name: ifca.unican.es Jobs Queued	view graph Jobs Total	
		dteam TOTAL	13	0 Site Name: ific.uv.es	13 13 view graph	
e run-time information on the web page	are	atlas dteam	obs Running 145 1	Jobs Queued 0 0	Jobs Total 145 1	
uped for Virtual Organization of jobs or f		면 D	146	0 Site Name: lnl.infn.it	146 view graph	=

group by the real owner of the job.

It is available a detailed view for each job; that can be grouped also by "jobstatus", or by date of submission, start or end



There is also a historical view of the job grouped by farm and VO.



Execution Target	CPU Time (s)	Wall Time (s)			Virtual Memory Used (KB)			
pccms16	53272	57742 Not Available 202964 323824						
Global ID:	https://lxn1182.cern.ch:9000/N8FYq7UjJnecNrZEhyH5-g							
Local ID: 65562	VO: lhcb Site: ba.infn.it							
Job Name	Job Status	Local Owner	Creation Time	Start Time	End Time			
STDIN	Running	lhcb001	15/09/2004-12:45:29	15/09/2004-12:45:29	not finished			
Execution Target	CPU Time (s)	Wall Time (s)	Exit Status	RAM Used (KB)	Virtual Memory Used (KB)			
pccms14	53109	57742	Not Available	201760	321008			
Global ID: https://lxn1182.cern.ch:9000/gfAuQRve9dag647aNy-LVA								
Local ID: 65561	VO: lhcb	Site: ba.infn.it						
Job Name	Job Status	Local Owner	Creation Time	Start Time	End Time			
STDIN	Running	lhcb001	15/09/2004-12:39:28	15/09/2004-12:39:29	not finished			
Execution Target	CPU Time (s)	Wall Time (s)	Exit Status	RAM Used (KB)	Virtual Memory Used (KB)			
pccms11	48187	57732	Not Available 201860		323732			
Global ID:	https://lxn1182.cern.ch:9000/zOT_9C8QD2I2KEOw0GcmnQ							
Local ID: 65542 VO: lhcb Site: ba.infn.it								
Job Name	Job Status	Local Owner	Creation Time	Start Time	End Time			
STDIN	Running	lhcb001	15/09/2004-08:56:39	15/09/2004-08:56:39	not finished			
Execution Target	CPU Time (s)	Wall Time (s)	Exit Status	RAM Used (KB)	Virtual Memory Used (KB)			
gridfirb4	89223	90772	Not Available	209052	324692			
Global ID:	https://lxn1182	2.cern.ch:9000/n	HDudqUflGdgcwgdeFYi	gA				
Local ID: 65541	Local ID: 65541 VO: lhcb Site: ba.infn.it							
Job Name	Job Status	Local Owner	Creation Time	Start Time	End Time			
STDIN	Running	lhcb001	15/09/2004-08:53:38	15/09/2004-08:53:38	not finished			
Execution Target	CPU Time (s)	Wall Time (s)	Exit Status	RAM Used (KB)	Virtual Memory Used (KB)			
gridfirb3	89283	90772	Not Available	213504	327212			
	1.1. 11 1100	1.000014			- I I-			

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	cern.ch	TANK DISTRICT							
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	ct.infn.it	alice atlas	babar bio	cms dteam	gridit inaf	f infngrid	lhcb		
	fe.infn.it	1.161 I.I.I.I.I.I.I	babar	cdf cms	inaf	infngrid ing	jv lheb		
	lnl.infn.it	alice atlas		cms dteam		infngrid	lhcb		
	mi.infn.it	atlas		dteam					
	na.infn.it	alice atlas	babar bio	cms dteam	gridit inaf	infngrid ing	JV lhcb		
	oat.ts.astro.it				gridit inaf	f infngrid			
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	pg.infn.it			cms					
	pi.infn.it	atlas		cms	gridit	infngrid	lhcb		
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