



Enabling Grids for E-science

EGEE roadmap and requirements

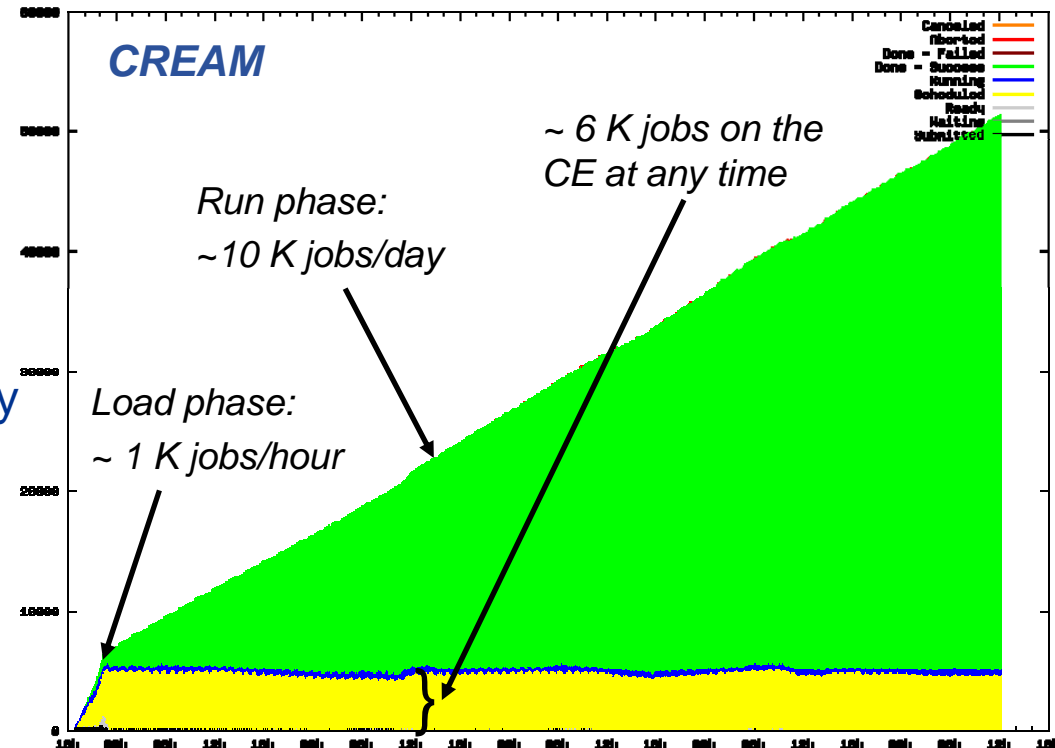
Claudio Grandi
EGEE-II JRA1 Manager
Claudio.Grandi@cern.ch

www.eu-egee.org



- **CREAM: BES interface**
- **VOMS: SAML support**
- **GLUE: info providers**
- **DGAS: RUS interface**

- CREAM has been chosen as the long-term gLite CE
 - Performance tests satisfactory:
 - > 90000 jobs in 8 days by 50 simultaneous users
 - 111 failures (all LSF errors)
 - WS-I interface, directly reachable by clients



- Certification foreseen to start in mid-December 2007
- It is extremely important for EGEE that CREAM supports the BES interface
 - Is the inclusion of the support of the new BES 1.0 before the end of the EGEE-II project (31/3/08) compatible with OMII-EU plans?

- **Authorization in EGEE is currently based on Attribute Certificates provided by VOMS**
- **EGEE plans to provide SAML support at various levels**
 - Grant access to services based on SAML credentials
 - A new Authorization Service is being designed following standard interfaces
 - *Compatible with SAML and XACML standards*
 - *A prototype is being prepared in agreement with OSG*
 - *Full design foreseen to be completed by Dec. 2007, implementation will start in 2008*
 - Issue SAML credentials from EGEE VO management tools
 - Add SAML support in VOMS
- **Is the plan to add SAML support to VOMS during the first months of 2008 compatible with OMII-EU plans?**

- **gLite is using the GLUE schema (version 1.3)**
 - The definition of this schema started in April 2002 as a collaboration effort between EU-DataTAG and US-iVDGL
 - Aim to contribute and adopt the GLUE 2.0 schema as defined by the new GLUE Working Group at OGF
 - GLUE 2.0 in public comments is expected by OGF 22 (Jan '08)
- **EGEE is using the BDII as back-end**
 - Based on an LDAP database
 - Adequate performance to address the infrastructure needs
 - Up to 2 million queries/day served (over 20 Hz)
- **We would be happy to have Generic Information Providers that produce data in Idap format**
 - The time scale is that of the adoption of GLUE 2.0
 - Too early to provide dates (the prototype implementation for version in public comment is expected by Mar '08)

- Resource usage by VO, group or user

- Sensors running on resources
- Privacy: access to accounting data granted only to authorized people (user, provider, VO manager)

- Information sent to the Grid Operations Centre (GOC)

- Via APEL and/or DGAS

- Tools are not compliant with OGF standards (UR, RUS)
- How can current work on DGAS-RUS by OMII-EU be used?

EGEE View **VO MANAGER View** VO MEMBER View SITE ADMIN View USER View

January 2006 - December 2006.

The following table shows the Usage of the Top 10 Users ordered by Normalised CPU time and the Total Usage of the Other Users. A detailed view can be obtained by selecting an individual user.

Top 10 Users ordered by Normalised CPU time													
#	User ID	Jobs		CPU time		Norm. CPU time		WCT		Norm. WCT		CPU Efficiency %	Avg. CPU time Hrs
		#	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%		
<p>EGEE View VO MANAGER View VO MEMBER View SITE ADMIN View USER View</p>													

CESGA-EGEE User information.
January 2006 - December 2006.

The following table shows the Usage of the Top 10 Users ordered by Normalised CPU time and the Total Usage of the Other Users. A detailed view can be obtained by selecting an individual user.

Top 10 Users ordered by Normalised CPU time														
#	User ID	Jobs		CPU time		Norm. CPU time		WCT		Norm. WCT		GPU Efficiency %	Avg. CPU time Hrs	Avg. WCT Hrs
		#	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%			
1	007c482b7a509753	335	0.5%	6,069	30.9%	2,313	30.9%	6,204	19.6%	2,964	19.6%	97.8	18.12	18.52
2	006f8bf719df068f	49,214	68.6%	2,769	14.1%	1,054	14.1%	6,955	21.9%	2,648	21.9%	39.8	0.06	0.14
3	57684c0c3d621a53	1,598	2.2%	1,717	8.7%	653	8.7%	2,052	6.5%	781	6.5%	83.7	1.07	1.28
4	43289fd45f650e5e	101	0.1%	1,616	8.2%	616	8.2%	1,981	6.2%	754	6.2%	81.6	16.00	19.61
5	11e9316e4987c00c	541	0.8%	1,295	6.6%	493	6.6%	1,337	4.2%	510	4.2%	96.8	2.39	2.47

EGEE View VO MANAGER View VO MEMBER View SITE ADMIN View **USER View**

dteam VO: Exclude dteam jobs information

Refresh

USER Total number of jobs by VO and DATE.
January 2006 - December 2006.

The following table shows the distribution of Total number of jobs grouped by VO and DATE.

Total number of jobs run by VO and DATE													
VO	Jan 06	Feb 06	Mar 06	Apr 06	May 06	Jun 06	Jul 06	Aug 06	Sep 06	Oct 06	Nov 06	Dec 06	Total
dteam	1,447	1,554	972	1,450	1,535	1,642	1,392	1,280	926	0	0	0	12,198
Total	1,447	1,554	972	1,450	1,535	1,642	1,392	1,280	926	0	0	0	12,198
Percentage	11.86%	12.74%	7.97%	11.89%	12.58%	13.46%	11.41%	10.49%	7.59%	0.00%	0.00%	0.00%	

[Click here for a csv dump of this table](#)