EGI Training for AEGIS Site Administrators
Institute of Physics Belgrade

AEGIS Centralized APEL service

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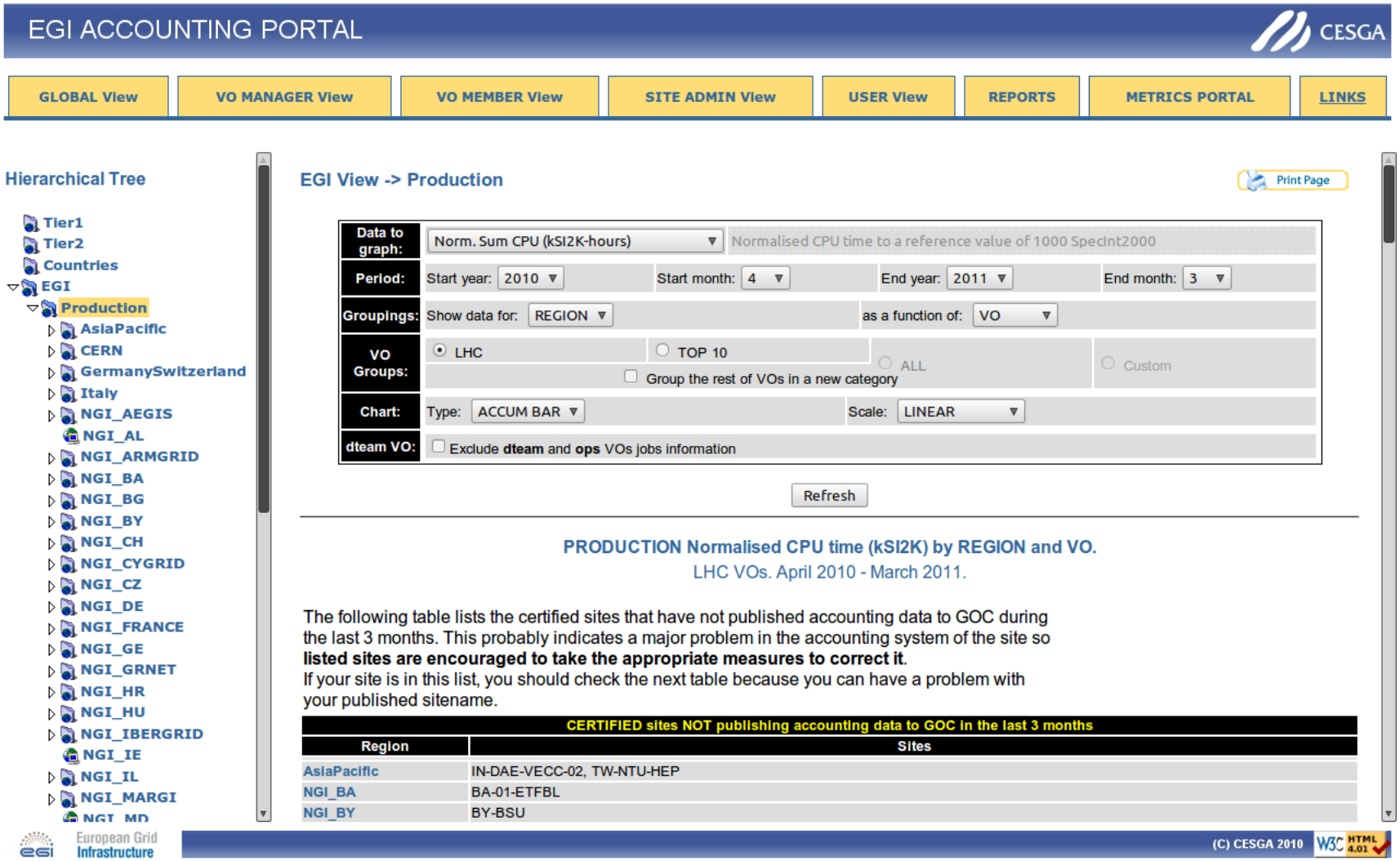
- **EGI Accounting Portal**
- **glite-APEL node overview**
- **AEGIS APEL configuration**

- The EGI Accounting Portal is the web graphical front-end to EGI accounting data.
- Accounting data are CPU resource usage records extracted from the log files on the Compute Element (CE).


EGI ACCOUNTING PORTAL
CESGA
GLOBAL View
VO MANAGER View
VO MEMBER View
SITE ADMIN View
USER View
REPORTS
METRICS PORTAL
LINKS
Hierarchical Tree
Tier1
Tier2
Countries
EGI
Production
AsiaPacific
CERN
GermanySwitzerland
Italy
NGI_AEGIS
NGI_AL
NGI_ARMGRID
NGI_BA
NGI_BG
NGI_BY
NGI_CH
NGI_CYGRID
NGI_CZ
NGI_DE
NGI_FRANCE
NGI_GE
NGI_GRNET
NGI_HR
NGI_HU
NGI_IBERGRID
NGI_IE
NGI_IL
NGI_MARGI
NGI_MD
EGI View -> Production
Print Page
Data to graph:
Norm. Sum CPU (kSI2K-hours)
Normalised CPU time to a reference value of 1000 SpecInt2000
Period:
Start year: 2010
Start month: 4
End year: 2011
End month: 3
Groupings:
Show data for: REGION
as a function of: VO
VO Groups:
LHC
TOP 10
ALL
Custom
Group the rest of VOs in a new category
Chart:
Type: ACCUM BAR
Scale: LINEAR
dteam VO:
Exclude dteam and ops VOs jobs information
Refresh
PRODUCTION Normalised CPU time (kSI2K) by REGION and VO.
LHC VOs. April 2010 - March 2011.
The following table lists the certified sites that have not published accounting data to GOC during the last 3 months. This probably indicates a major problem in the accounting system of the site so listed sites are encouraged to take the appropriate measures to correct it.
If your site is in this list, you should check the next table because you can have a problem with your published sitename.
CERTIFIED sites NOT publishing accounting data to GOC in the last 3 months
Region
Sites
AsiaPacific
IN-DAE-VECC-02, TW-NTU-HEP
NGI_BA
BA-01-ETFBL
NGI_BY
BY-BSU
European Grid Infrastructure
(C) CESGA 2010
W3C HTML 4.01

- The data displayed is of the type consumed usage per VO/ site/ month:
  - The number of completed jobs
  - The CPU time consumed
  - The Wall Clock Time (WCT)
  - CPU Job Efficiency defined as SUM(CPU) / SUM(WCT).

- Studying data of a given VO can help to establish those periods with higher activity during the year. With this informations grid/site admins can plan when to increase the online resources to the maximum available. Also, knowing in advance of periods of lower consumption can help in planing scheduled downtimes.

- APEL (Accounting Processor for Event Logs) is a log processing service which is used to interpret gatekeeper and batch system logs to produce CPU job accounting records identified with grid identities.
- It currently supports PBS, LSF, SGE and Condor batch systems and may be extended to support other variants.

- A complete job accounting record is composed of grid level and local resource information:
  - users X.509 DN
  - a unique global job identifier
  - VOMS group and role attributes
  - local resource information (CPU/Wall Clock Time and Real/Virtual Memory)

- Accounting data are stored in MySQL database.

- The Apel Log Parser also makes LDAP queries of the Computing Element to obtain the CPU performance.

- The Apel software is composed of two components: The Log Parser and Publisher.

- Possibility to publish data from more than one site with one APEL node.

- Centralized APEL node :

  apel.ipb.ac.rs

- All AEGIS Computing Elements are publishing to apel.ipb.ac.rs which is publishing accounting data to centrilized server.

- Less administration.
- No need for more than one APEL node in AEGIS VO.

AEGIS APEL configuration