Tier2 Accounting

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CESGA

Grid Deployment Board

November 2008

Request from MB

- Requests to update the Tier 2 reports to be more in line with the Tier 1 reports:
  - To include the wall clock time and cpu/wall ratio
  - To add the installed and pledged capacities
  - To include storage data (pledged, installed, used?)
  - To include incremental use during the year for Tier 2s

Note: there are 2 parts to the reporting

  - That generated from APEL through which is the data on accounted cpu
  - The formal report which takes the data from APEL and applies the knowledge of pledges and installed capacity

- So:
  1. Ask the APEL report for Tier 2 to include the wall time
  2. New info providers that automatically collect installed capacities for Tier 2s and collect storage data (installed and used) for all (John Gordon + Flavia + work from WN working group)
  3. Update the final reports to include all requested changes

Progress 1

- Allow a range of dates
  - Not just month at a time
  - Displays average Pledge over the period
- Display Total Wallclock for T2 over the period

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Accounting Reports -> Tier2

Print Page

Period: Start year: 2008 Start month: 1 End year: 2008 End month: 11

Refresh

WLCG - Tier-2 Accounting Report.

January 2008 - November 2008.

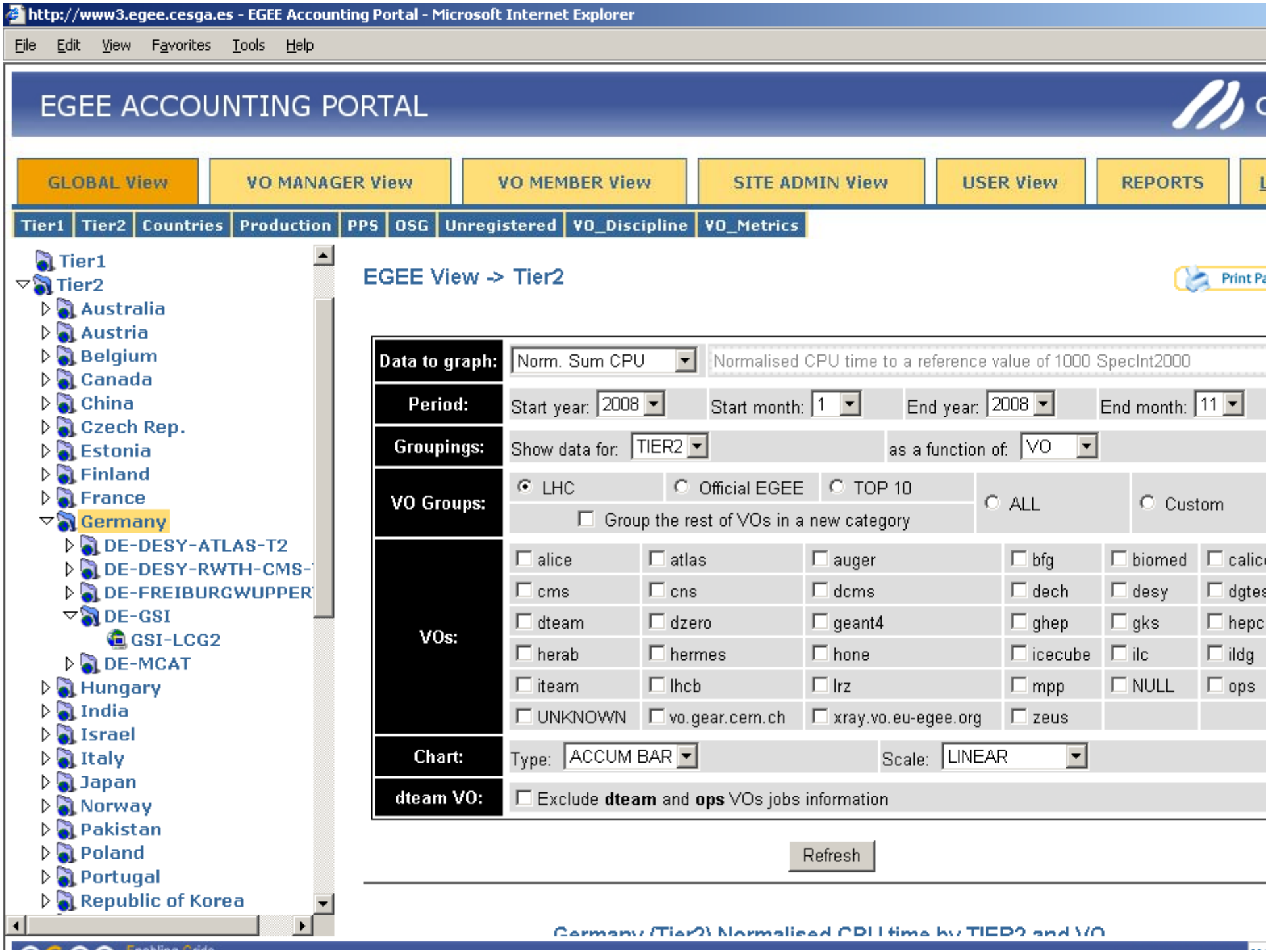
Normalised CPU time [units 1K.SI2K.Hours] by TIER2 and VO

COUNTRY	FEDERATION	2007 CPU Pledge (KSI2K) AVG.	pledge inc. efficiency (KSI2K-Hrs)	SITE	alice	atlas	cms	lhcb	Total	used as % of pledge	wallclock
Australia	AU-ATLAS			Australia-ATLAS		2,110,380			**2,110,380**		
				Australia-UNIMELB-LCG2		8,541			**8,541**		
		120.00	**579,456**	**Total**		**2,118,921**			**2,118,921**	**365.67%**	**2,277,729**
Austria	AT-HEPHY-VIENNA-UIBK			HEPHY-UIBK		81,122			**81,122**		
		507.27	**2,447,712**	**Total**		**81,122**			**81,122**	**3.31%**	**98,782**
Belgium	BE-TIER2			BEgrid-ULB-VUB			268,319		**268,319**		
				BelGrid-UCL			176,000		**176,000**		
		927.27	**4,475,520**	**Total**			**444,319**		**444,319**	**9.93%**	**667,226**

W3C HTML 4.01

Progress 2

- Tier2 Hierarchy in Tree
- Usual selection of VO, date range, and quantity to be displayed
- Tier2s in Country – Tier2*VO, Tier2*DATE, SITE*VO, SITE*DATE,
- A Tier2 – SITE*VO, SITE*DATE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GSI-LCG2
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EGEE View -> Tier2
Print Pa
Data to graph:
Norm. Sum CPU
Normalised CPU time to a reference value of 1000 SpecInt2000
Period:
Start year: 2008
Start month: 1
End year: 2008
End month: 11
Groupings:
Show data for: TIER2
as a function of: VO
VO Groups:
LHC
Official EGEE
TOP 10
ALL
Custom
Group the rest of VOs in a new category
VOs:
alice atlas auger bfg biomed calic
cms cns dcms dech desy dgte
dteam dzero geant4 ghep gks hepc
herab hermes hone icecube ilc ildg
iteam lhcb lrz mpp NULL ops
UNKNOWN vo.gear.cern.ch xray.vo.eu-egee.org zeus
Chart:
Type: ACCUM BAR
Scale: LINEAR
dteam VO:
Exclude dteam and ops VOs jobs information
Refresh
Germany (Tier2) Normalised CPU time by TIER2 and VO

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EGEE ACCOUNTING PORTAL

GLOBAL View | VO MANAGER View | VO MEMBER View | SITE ADMIN View | USER View | REPORTS

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    - DE-DESY-RWTH-CMS-T2
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    - DE-GSI
      - GSI-LCG2
    - DE-MCAT
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  - Japan
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  - Pakistan
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  - Portugal
  - Republic of Korea

Germany (Tier2) Normalised CPU time by TIER2 and VO.

LHC VOs. January 2008 - November 2008.

The following table shows the distribution of Normalised CPU time grouped by TIER2 and VO (only information about **LHC VOs** is returned).

Normalised CPU time [units 1K.SI2K.Hours] by TIER2 and VO						
TIER2	alice	atlas	cms	lhcb	Total	%
DE-DESY-ATLAS-T2	0	2,371,585	1,576,734	165,993	4,114,312	29.
DE-DESY-RWTH-CMS-T2	0	2,371,585	4,767,562	165,993	7,305,140	53.
DE-FREIBURGWUPPERTAL	0	1,186,228	0	0	1,186,228	8.
DE-GSI	162,515	0	0	0	162,515	1.
DE-MCAT	0	944,821	0	4,456	949,277	6.
Total	162,515	6,874,219	6,344,296	336,442	13,717,472	
Percentage	1.18%	50.11%	46.25%	2.45%		

Click here for a csv dump of this table

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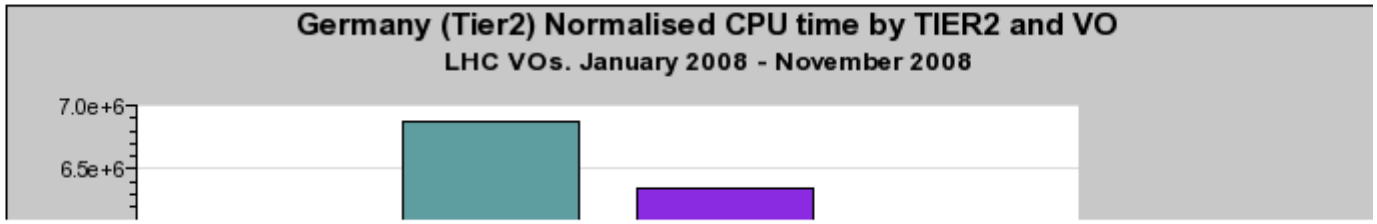
The information in the previous table is also shown in the following graph.



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LHC VOs. January 2008 - November 2008.

The following table shows the distribution of Normalised CPU time grouped by TIER2 and DATE (only information about **LHC VOs** is returned).

Normalised CPU time [units 1K.SI2K.Hours] by TIER2 and DATE										
TIER2	Jan 08	Feb 08	Mar 08	Apr 08	May 08	Jun 08	Jul 08	Aug 08	Sep 08	Oct 08
DE-DESY-ATLAS-T2	319,136	148,162	209,657	506,616	381,469	470,688	359,369	455,584	381,241	736,1
DE-DESY-RWTH-CMS-T2	340,288	178,979	422,053	964,790	1,031,766	863,444	462,545	834,993	1,023,647	1,036,3
DE-FREIBURGWUPPERTAL	157,179	68,072	121,191	158,891	61,564	67,055	52,409	179,006	108,494	172,8
DE-GSI	6,690	6,820	26,193	33,872	31,560	48,396	9	8,888	62	
DE-MCAT	13,066	23,013	181,130	193,422	103,856	124,298	90,824	34,402	62,003	117,7
Total	**836,359**	**425,046**	**960,224**	**1,857,591**	**1,610,215**	**1,573,881**	**965,156**	**1,512,873**	**1,575,447**	**2,063,0**
Percentage	**6.10%**	**3.10%**	**7.00%**	**13.54%**	**11.74%**	**11.47%**	**7.04%**	**11.03%**	**11.48%**	**15.04**

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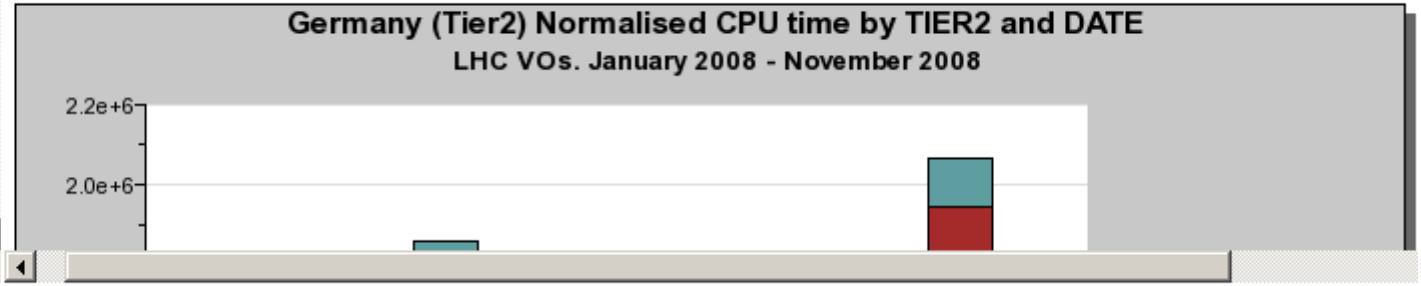

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Germany (Tier2) Normalised CPU time by SITE and VO.

LHC VOs. January 2008 - November 2008.

The following table shows the distribution of Normalised CPU time grouped by SITE and VO (only information about **LHC VOs** is returned).

Normalised CPU time [units 1K.SI2K.Hours] by SITE and VO						
SITE	alice	atlas	cms	lhcb	Total	%
DESY-HH	0	2,256,482	3,150,858	0	5,407,340	39.
DESY-ZN	0	2,486,688	2,610	331,986	2,821,284	20.
GSI-LCG2	162,515	0	0	0	162,515	1.
LRZ-LMU	0	758,320	0	0	758,320	5.
MPPMU	0	186,501	0	4,456	190,957	1.
RWTH-Aachen	0	0	3,190,828	0	3,190,828	23.
UNI-FREIBURG	0	361,139	0	0	361,139	2.
wuppertalprod	0	825,089	0	0	825,089	6.
Total	162,515	6,874,219	6,344,296	336,442	13,717,472	
Percentage	1.18%	50.11%	46.25%	2.45%		

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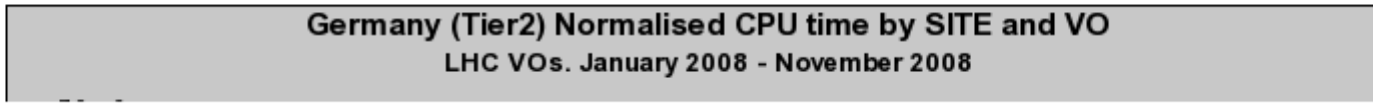

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Refresh

Germany (Tier2) Normalised CPU time by SITE and DATE.

LHC VOs. January 2008 - November 2008.

The following table shows the distribution of Normalised CPU time grouped by SITE and DATE (onl
information about **LHC VOs** is returned).

Normalised CPU time [units 1K.SI2K.Hours] by SITE and DATE											
SITE	Jan 08	Feb 08	Mar 08	Apr 08	May 08	Jun 08	Jul 08	Aug 08	Sep 08	Oct 08	No
DESY-HH	481,876	219,848	77,570	491,534	477,918	647,472	412,410	642,152	601,938	1,173,350	181
DESY-ZN	156,396	76,476	341,744	521,698	285,020	293,904	306,328	269,016	160,544	298,904	111
GSI-LCG2	6,690	6,820	26,193	33,872	31,560	48,396	9	8,888	62	25	
LRZ-LMU	11,121	20,504	149,040	184,303	62,849	75,018	69,330	33,036	61,132	89,949	2
MPPMU	1,945	2,509	32,090	9,119	41,007	49,280	21,494	1,366	871	27,767	3
RWTH-Aachen	21,152	30,817	212,396	458,174	650,297	392,756	103,176	379,409	642,406	300,245	
UNI-FREIBURG	33,948	8,588	14,784	36,733	23,688	43,780	37,815	31,552	69,407	41,274	19
wuppertalprod	123,231	59,484	106,407	122,158	37,876	23,275	14,594	147,454	39,087	131,574	19
Total	**836,359**	**425,046**	**960,224**	**1,857,591**	**1,610,215**	**1,573,881**	**965,156**	**1,512,873**	**1,575,447**	**2,063,088**	**337**
Percentage	**6.10%**	**3.10%**	**7.00%**	**13.54%**	**11.74%**	**11.47%**	**7.04%**	**11.03%**	**11.48%**	**15.04%**	**2.**

Click here for a csv dump of this table

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The information in the previous table is also shown in the following graph.

Germany (Tier2) Normalised CPU time by SITE and DATE

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Germany (Tier2) CPU Efficiency by SITE and VO.

LHC VOs. October 2008 - October 2008.

The following table shows the distribution of CPU Efficiency grouped by SITE and VO (only information about **LHC VOs** is returned).

CPU Efficiency (%) by SITE and VO					
SITE	alice	atlas	cms	lhcb	Total
DESY-HH		86.7	72.5		
DESY-ZN		89.1	8.3	64.6	
GSI-LCG2	0.1				
LRZ-LMU		59.9			
MPPMU		98.3		26.7	
RWTH-Aachen			71.4		
UNI-FREIBURG		77.5			
wuppertalprod		64.8			
Total	**0.1**	**76.8**	**72.2**	**59.1**	

Click here for a csv dump of this table

Key: 0% <= eff < 50%; 50% <= eff < 60%; 60% <= eff < 75%; 75% <= eff < 90%; 90% <= eff < 100%; eff >= 100% (parallel jobs)

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The information in the previous table is also shown in the following graph.

Germany (Tier2) CPU Efficiency by SITE and VO

Summary

- Tier2 (printable) report with wallclock/Tier2 and range of dates.
- Tier2 adaptable report for Tier2s and constituent sites

Still To Come

- Installed Capacity
  - See the Megatable Talk