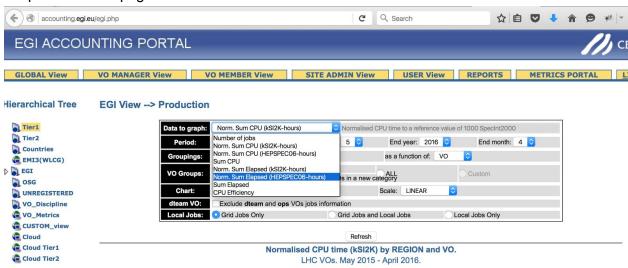
Accounting Overview:

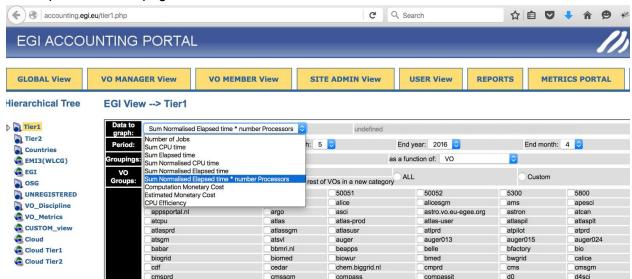
From main page:

Sum Normalized Elapsed time \* Number Processor: why in Tier1/s but not in main?

## Snapshot of main page



## Vs snapshot of Tier1 page

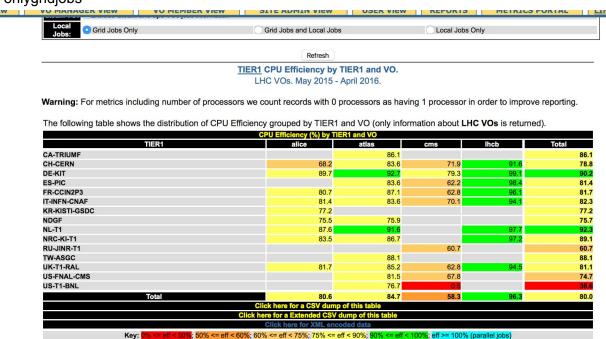


why Sum Normalised Elapsed time \* number Processors is available only in that view?

# CPU Efficiency (CPU/WALL\*processors) in Tier1/2 view

#### It seems OK in Tier1 view

http://accounting.egi.eu/tier1.php?query=cpueff&startYear=2015&startMonth=5&endYear=2016 &endMonth=4&yrange=TIER1&xrange=VO&groupVO=lhc&chart=GRBAR&scale=LIN&localJob s=onlygridjobs

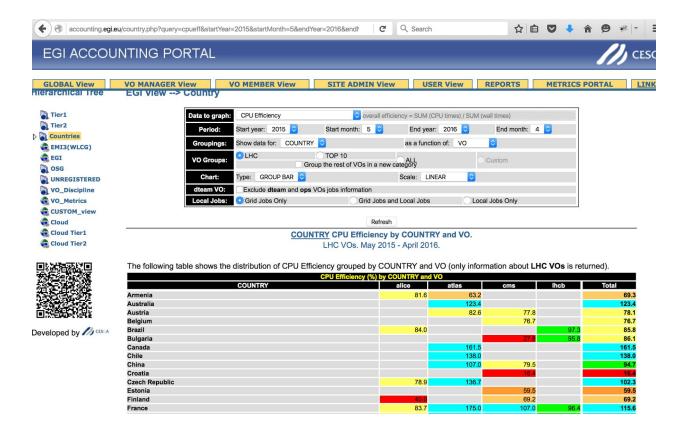


The information in the previous table is also shown in the following graph.

# CPU/WALL >>100% in country view

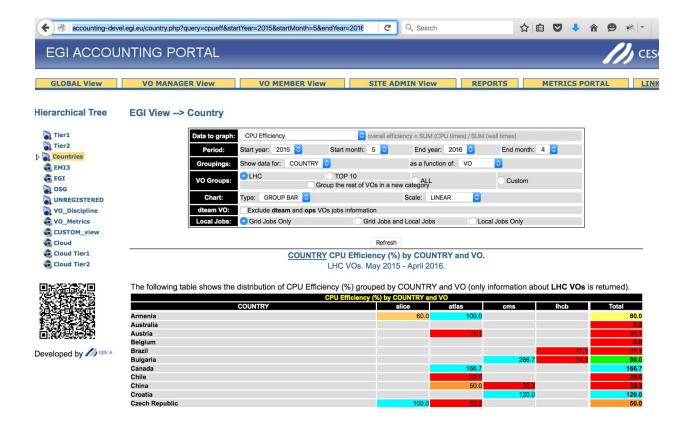
But it is NOT ok in Country view.

http://accounting.egi.eu/country.php?query=cpueff&startYear=2015&startMonth=5&endYear=2016&endMonth=4&yRange=COUNTRY&xRange=VO&voGroup=lhc&chart=GRBAR&scale=LIN&localJobs=onlygridjobs



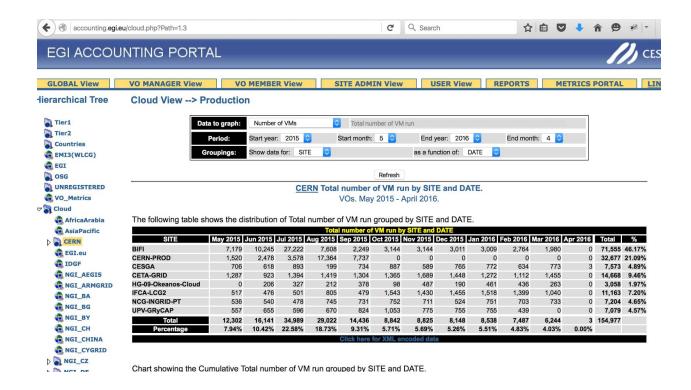
And not even in the devel portal.

http://accounting-devel.egi.eu/country.php?query=cpueff&startYear=2015&startMonth=5&endYear=2016&endMonth=4&yrange=COUNTRY&xrange=VO&groupVO=lhc&chart=GRBAR&scale=LIN&localJobs=onlygridjobs



Cloud view: what is this?

http://accounting.egi.eu/cloud.php?Path=1.3



# Computation Monetary cost: what is this?

http://accounting.egi.eu/tier2.php?query=cost&startYear=2015&startMonth=5&endYear=2016&endMonth=4&yrange=COUNTRY\_T2&xrange=VO&groupVO=lhc&chart=GRBAR&scale=LIN&localJobs=onlygridjobs

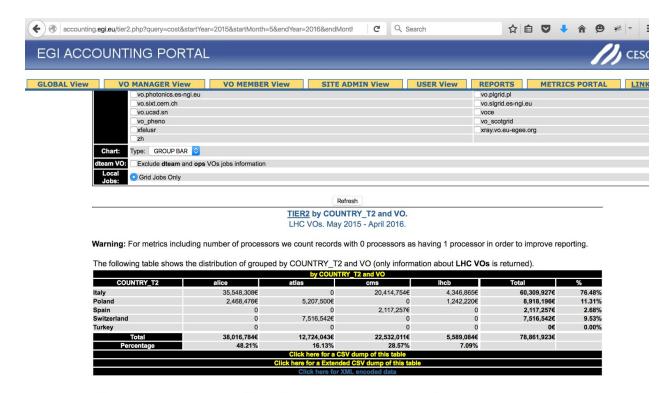


Chart showing the Cumulative grouped by COUNTRY T2 and VO (only information about LHC VOs is returned)

## One other small point:

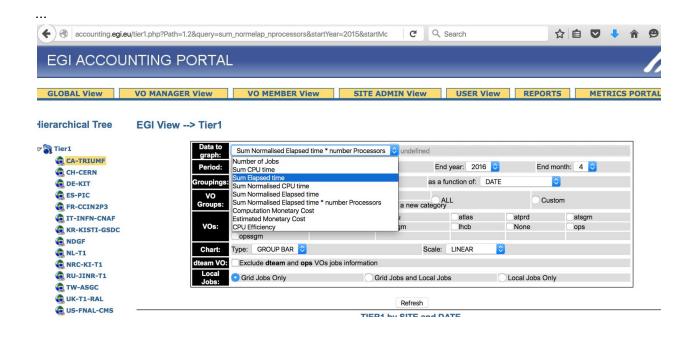
# Why not having Elapsed time \* Num Processor?

why not having also elapsed time \* number of processors?

—> this would be actually the easiest more basic info that also experiment can crosscheck. The experiments don't know the normalisation applied by the site but they know how much time \*processors they got from the site.

In the link here one example, TRIUMF.

http://accounting.egi.eu/tier1.php?Path=1.2&query=sum\_normelap\_nprocessors&startYear=201 5&startMonth=5&endYear=2016&endMonth=4&yrange=SITE&xrange=DATE&groupVO=lhc&ch art=GRBAR&scale=LIN&localJobs=onlygridjobs



In general on the portal:

Would be nice if from an accounting portal we have all and only the useful and validated information.

All the rest should be hidden/removed.

We also need to agree on which are the info that we really need.

# General view on accounting for memory/cores

As agreed at the WLCG management board few months ago,

ATLAS is requesting the sites to provide 2GB physical memory per core.

ATLAS is also kindly requesting to some sites (the ones that can) to provide the possibility to run a fraction of the ATLAS jobs on high memory (>=4GB memory per core) resources.

ATLAS is going to provide the memory requirements for all the jobs to allow the site to maximize the resources usage.

ATLAS suggest that we keep accounting as simple as possible.

#### Minor note

If the goodwilling sites providing HighMemory slots jobs need to improve their accounting for these slots and would need to advertise the cores "not fully used" we would need to know how they do this to make sure that our workload management system broker jobs accordingly.

## Opportunistic resources:

•Please, provide feedback on how you would like opportunistic resources accounting to be performed and whether you consider this could be done the through central accounting portal It depends on the opportunistic resources.

we believe we cannot ask places like HPC/CloudProviders to publish into the accounting portal. What we do have is our JobDashboard, and there for sure we want to have the overview. If we want to use the accounting portal as the "WLCG overview", then maybe we should ask at least the possibility to inject data a posteriori, in this case we could (experiments or opportunistic resource provider) inject "if needed".

# Space accounting

- •Please, provide some details on how you currently perform space accounting
- •Whether you have any needs from WLCG for this
- •How you envisage to do this in a SRM-less world

ATLAS do direct checks each approx20mins, using gfal clients, on the space tokens the sites allocate to ATLAS.

ATLAS do have a plan for the SRMless world: DDM is proposing a structure (extension of what we had few years ago for gridftp only sites), and this could be then fetched and collected as today we collect the info from each storage. This is also discussed with CMS

## REBUS

- •Please, explain what REBUS functionality is used and whether any of the published data there is useful, otherwise, please describe which information or functionality is missing
- •Please, state whether information about installed/available capacity is needed
- •Available capacity (HW which is actually usable) as opposed to installed capacity (HW which is in place)
- •Note that capacity definitions are being discussed!

ATLAS use REBUS as the place where the pledge are collected from the sites. we need it (or similar).

ATLAS use installed/available capacity to have a guess of the core power.

Would be useful to know how much a site can provide to each VO, e.g. a working installed capacity by site. This would most probably need to be extended because as of today this installed capacity per federation is used to match with pledges, while ATLAS would be interested to know how much it is really available, including over-the pledge and opportunistic resources.

Additional note: for accounting numbers for computing a +/- 10% can be considered ok.