### Multicore Accounting Update

John Gordon WLCG MB December 2015











## MultiCore Usage

- The campaigns to encourage sites to start publishing accounting information on the number of cores used were successful.
- >99% of LHC usage reports #cores.
- Of the remaining <1%, 90%+ is due to ARC CEs at DESY-HH
  - Intractable interaction between ARC CE and PBS
  - Should be fixable as CREAM was fixed.
- Very low level of failed jobs on ARC CEs still report 0 cores with little or no cpu and small wall.







John

### EGI ACCOUNTING PORTAL



GLOBAL View VO MANAGER View VO MEMBER View SITI

SITE ADMIN View REPORTS

METRICS PORTAL

<u>LINKS</u>

\_ D X

Refresh

#### by REGION and NUMBER PROCESSORS.

LHC VOs. November 2015 - December 2015.

The following table shows the distribution of grouped by REGION and NUMBER PROCESSORS (only information about LHC VOs is returned).

by REGION and NUMBER PROCESSORS																
REGION	0	1	2	3	4	5	6	8	9	10	12	16	20	40	Total	%
AfricaArabia	0	1,792,407	0	0	0	0	0	0	0	0	0	0	0	0	1,792,407	0.09%
AsiaPacific	1,676	67,091,786	0	0	0	0	0	22,402,563	0	0	0	0	0	0	89,496,025	4.66%
CERN	0	135,486,076	20,458,562	0	0	0	0	19,636,403	0	0	0	0	0	0	175,581,042	9.14%
NGI_ARMGRID	0	79,443	0	0	0	0	0	0	0	0	0	0	0	0	79,443	0.00%
NGI BG	119	0	0	0	0	0	0	0	0	0	0	0	0	0	119	0.00%
NGI_CH	0	12,117,361	11,386	0	0	1	0	7,362,142	0	0	0	0	0	0	19,490,890	1.01%
NGI CHINA	0	10,192,040	0	0	0	0	0	995,886	0	0	0	0	0	0	11,187,926	0.58%
NGI_CZ	0	16,045,577	0	0	0	0	0	3,727,645	0	0	0	0	0	0	19,773,222	1.03%
NGI DE	13,007,515	151,311,170	0	0	0	0	0	69,465,655	0	0	0	0	0	1,824,103	235,608,444	12.26%
NGI_FRANCE	0	205,412,337	31,975	11	0	0	0	58,149,866	0	0	0	0	0	0	263,594,188	13.72%
NGI_GRNET	0	2,824,233	0	0	0	0	0	0	0	0	0	0	0	0	2,824,233	0.15%
NGI HR	0	54	0	0	0	0	0	0	0	0	0	0	0	0	54	0.00%
NGI HU	0	6,801,615	0	0	0	0	0	0	0	0	0	0	0	0	6,801,615	0.35%
NGI_IBERGRID	0	46,946,320	0	0	2	0	0	35,283,958	0	2	. 0	0	0	0	82,230,282	4.28%
NGI IL	0	8,409,990	0	0	0	0	0	6,031,630	0	0	0	0	0	0	14,441,619	0.75%
NGI_IT	0	167,204,915	426,358	0	45	0	0	50,251,191	0	0	0	0	0	0	217,882,509	11.34%
NGI NDGF	0	26,403,787	166,728	0	0	0	0	8,080,953	0	0	1,869,987	323,447	0	0	36,844,901	1.92%
NGI_NL	0	75,857,308	0	0	14,700,898	0	0	0	0	0	0	0	0	0	90,558,206	4.71%
NGI PL	0	30,231,011	0	0	0	0	0	0	0	0	0	840,084	0	0	31,071,095	1.62%
NGI_RO	214,082	12,291,241	0	0	0	0	0	3,680,949	0	0	0	0	0	0	16,186,271	0.84%
NGI SI	0	16,350,582	0	0	0	0	0	9,809,879	0	0	0	0	0	0	26,160,461	1.36%
NGI_SK	0	10,126,611	0	0	0	0	0	2,879,847	0	0	0	0	0	0	13,006,458	0.68%
NGI_TR	0	458,145	0	0	0	0	0	19,137	0	0	0	0	0	0	477,281	0.02%
NGI_UA	1,328,965	619,548	0	0	0	0	0	0	0	0	0	0	0	0	1,948,513	0.10%
NGI_UK	3,359	244,113,110	0	0	1,629,325	0	0	68,407,525	0	0	0	0	0	0	314,153,319	16.35%
ROC_Canada	0	53,229,091	0	0	0	0	31,760,607	1,787,627	0	0	0	0	0	0	86,777,325	4.52%
ROC_LA	0	20,577,529	0	0	0	0	0	1,220,470	0	0	0	0	0	0	21,797,999	1.13%
Russia	0	105,797,719	0	0	0	0	0	22,437,007	0	0	13,316,652	0	0	0	141,551,378	7.37%
Total	14,555,717	1,427,771,002	21,095,010	11	16,330,270	1	31,760,607	391,630,333	0	2	15,186,639	1,163,531	0	1,824,103	1,921,317,227	
Percentage	0.76%	74.31%	1.10% 0	.00%	0.85%	0.00%	1.65%	20.38%	0.00%	0.00%	0.79%	0.06%	0.00%	0.09%		
					C	ick her	e for a CSV	dump of this	s table							
					Click h			CSV dump o		able						
						Click	here for XM	L encoded d	ata							

### **Monthly Reports**

- While waiting for APEL to migrate, the monthly WLCG Reports were adapted to take their data from the development portal with its information on cores used.
- The November report, available now for checking by sites uses wallclock\*ncores
  Final checking of REBUS logic

# Viewing in production portal

- The Accounting Portal is in the middle of a major rewrite and they are loath to make major changes (lack of effort, etc)
- They have added a new tree EMI3 alongside the EGI one and the former contains the data visible today on the development portal which now has historical data going back 18 months. (Earlier data will follow shortly)
- The Tier1 and Tier2 trees (and reports?) are from the latest data and include SubmitHost, Number of Processors(cores) and Number of CPUs. Wallclock time is viewable as raw, normalised and normalised\*ncores. The last number is used to calculate efficiency.
- Please let us know of any discrepancies you see either with what is visible in the original production view (EGI) or with what you expect to see for your site.

