

# ATLAS Computing @ RZG and MPP

## Status

Stefan Kluth, 18.02.08

# New hardware at RZG 2007

- CPU
  - 7 IBM BladeCenter, 14 HS21 dual quad core Xeon 5345 2,33 GHz, 16 GB RAM
  - 3 in operation, 4 waiting (power limitations)
- Disk (ca. 250 TB netto)
  - 14 Intel SSR212MC2 servers + JBOD (12+16 750 GB SATA disks), 4 GB RAM, 2 Xeon 5310, hardware RAID, 10 GbE LAN
  - running, in production soon

# Status of LCG/glite@RZG

- **CE**
  - ok, but still on SL3
  - plan to install as virtual servers
- **SE**
  - separate monbox and new SE
  - new hardware this week
  - new SE will support SRM 2.2

# ATLAS Production

- ATLAS sw installation working
  - python configuration via “login script”
- Production releases installed
- current production works w/o SRM
  - lexor with 12.x.y releases
- data storage at FZK major limitation
- todo: support SRM, panda, 13.x.y

# WLCG

## WLCG Tier2-2 accounting summary

Federation	2007 CPU Pledge (KSI2K)	pledge inc. efficiency (KSI2K- Hrs)	Site(s)	ALICE	ATLAS	CMS	LHCb	Total	delivered as % of pledge
Germany, ATLAS Federation, Munich			LRZ-LMU		11,121			11,121	
			MPPMU		1,942			1,942	
<b>DE-MCAT</b>	<b>60</b>	<b>26,784</b>			<b>13,063</b>			<b>13,063</b>	<b>49%</b>
Germany, CMS Federation			DESY-HH			3,232		3,232	
			DESY-ZN						
			RWTH-Aachen			21,152		21,152	
<b>DE-DESY-RWTH-CMS-T2</b>	<b>500</b>	<b>223,200</b>				<b>24,384</b>		<b>24,384</b>	<b>11%</b>
Hungary, HGCC Federation			BUDAPEST	4,506	572	545	2	5,625	
			ELTE						
<b>HU-HGCC-T2</b>	<b>200</b>	<b>89,280</b>		<b>4,506</b>	<b>572</b>	<b>545</b>	<b>2</b>	<b>5,625</b>	<b>6%</b>
India, TIFR, Mumbai			INDIACMS-TIFR			1		1	
<b>IN-INDIACMS-TIFR</b>	<b>130</b>	<b>58,032</b>				<b>1</b>		<b>1</b>	<b>0%</b>
India, VECC/SINP, Kolkata			IN-DAE-VECC-01	3,767				3,767	
<b>IN-DAE-KOLKATA-TIER2</b>	<b>282</b>	<b>125,885</b>		<b>3,767</b>				<b>3,767</b>	<b>3%</b>
Israel, HEP-IL Tier-2 Federation			WEIZMANN-LCG2		2,406			2,406	

Visible contribution to ATLAS Tier-2



# Tier-2 Availability and Reliability Report

January 2008

Critical Sam Tests - <http://sam-docs.web.cern.ch/sam-docs/docs/htmldocs/MANUserManual/node22.html>  
 availability = % of successful tests during the day  
 reliability = availability/scheduled availability  
 Reliability and availability for federation - average of all sites in the federation  
 Colour coding:

# WLCG

Federation	Site	reli- ability	avail- ability	reliability history		
				Oct-07	Nov-07	Dec-07
Austria, Austrian Tier-2 Federation	HEPHY-UIBK	100%	90%	99%	96%	96%
<b>AT-HEPHY-VIENNA-UIBK</b>		100%	99%	99%	96%	96%
Australia, University of Melbourne	Australia-UNIMELB-LCG2	27%	27%	90%	80%	83%
<b>AU-ATLAS</b>		27%	27%	90%	80%	83%
Belgium, Belgian Tier-2 Federation	BEgrid-ULB-VUB	75%	70%	77%	76%	78%
	BEgrid-UCL	72%	73%	64%	58%	69%
<b>BE-TIER2</b>		76%	76%	71%	67%	73%
Switzerland, CHIPP	CSCS-LCG2	41%	56%	57%	83%	87%
<b>CH-CHIPP-CSCS</b>		41%	56%	57%	83%	87%
China, IHEP, Beijing	BEIJING-LCG2	98%	99%	54%	71%	81%
<b>CN-IHEP</b>		98%	99%	54%	71%	81%
Czech Rep., FZU AS, Prague	praguecrg2	70%	70%	94%	87%	80%
	prague_cesnet_lcg2	78%	78%	99%	93%	65%
<b>CZ-Prague-T2</b>		74%	74%	97%	90%	72%
Germany, ATLAS Federation, Munich	LRZ-LMU	90%	90%	0%	83%	0%
	MPPMU	68%	68%	0%	55%	89%
<b>DE-MCAT</b>		79%	79%	0%	69%	45%
Germany, DESY, Hamburg	DESY-HH	98%	96%	97%	100%	100%
	DESY-ZN	98%	98%	94%	100%	98%
<b>DE-DESY-LHCb-T2</b>		98%	97%	97%	100%	98%
Germany, CMS Federation	DESY-HH	98%	96%	97%	100%	100%
	DESY-ZN	99%	98%	98%	100%	96%
	RWTH-Aachen	57%	57%	63%	80%	25%
<b>DE-DESY-RWTH-CMS-T2</b>		84%	84%	88%	93%	75%
Germany, ATLAS Federation FR/W	UNI-FREIBURG	71%	75%	51%	90%	96%
	wuppertalrod	48%	48%	0%	29%	68%
<b>DE-FREIBURGWUPPERTAL</b>		59%	62%	25%	64%	83%
Germany, GSI, Darmstadt	GSI-LCG2	88%	88%	99%	84%	51%
<b>DE-GSI</b>		88%	88%	99%	84%	51%
Spain, ATLAS Federation	Ifae	98%	98%	96%	73%	92%
	IFIC-LCG2	87%	89%	93%	98%	97%
	UAM-LCG2	90%	98%	98%	90%	28%
<b>ES-ATLAS-T2 tbc</b>		92%	92%	98%	87%	72%
Spain, CMS Federation	CIEMAT-LCG2	91%	92%	91%	82%	96%
	IFCA-LCG2	0%	24%	89%	72%	20%
<b>ES-CMS-T2</b>		46%	58%	90%	77%	57%
Spain, LHCb Federation	UB-LCG2	50%	49%	96%	97%	35%
	USC-LCG2	98%	95%	96%	96%	90%
<b>ES-LHCb-T2</b>		74%	72%	96%	96%	62%
Finland, NDGF/HIP Tier 2	HIP-T2	0%	0%	0%	0%	0%
<b>FI-HIP-T2</b>		0%	0%	0%	0%	0%
France, GRIF, Paris	GRIF	100%	99%	98%	100%	93%
<b>FR-GRIF</b>		100%	99%	98%	100%	93%
France, CC-IN2P3 AF	IN2P3-CC-T2	100%	95%	90%	86%	90%
<b>FR-IN2P3-CC-T2</b>		100%	95%	90%	86%	90%
France, LAPP, Annecy	IN2P3-LAPP	97%	97%	99%	99%	91%
<b>FR-IN2P3-LAPP</b>		97%	97%	99%	99%	91%
France, LPC, Clermont-Ferrand	IN2P3-LPC	99%	99%	99%	99%	96%
<b>FR-IN2P3-LPC</b>		99%	99%	99%	99%	96%
France, SUBATECH, Nantes	IN2P3-SUBATECH	98%	98%	98%	91%	89%
<b>FR-IN2P3-SUBATECH</b>		98%	98%	98%	91%	89%
Hungary, HGCC Federation	BUDAPEST	0%	0%	72%	88%	56%
	ELTE	0%	0%	0%	55%	15%
<b>HU-HGCC-T2</b>		0%	0%	36%	72%	36%
Israel, HEP-IL Tier-2 Federation	WEIZMANN-LCG2	82%	84%	72%	88%	56%
	TAU-LCG2	7%	7%	0%	55%	15%
<b>IL-HEPTier-2</b>		44%	46%	39%	72%	36%
India, VECC/SINP, Kolkata	IN-DAE-VECC-01	92%	92%	84%	77%	98%
<b>IN-DAE-KOLKATA-TIER2</b>		92%	92%	84%	77%	98%
India, TIFR, Mumbai	INDIACMS-TIFR	0%	0%	0%	0%	0%
<b>IN-INDIACMS-TIFR</b>		0%	0%	0%	0%	0%
Italy, INFN ALICE Federation	INFN-BARI	16%	15%	46%	91%	30%
	INFN-CATANIA	52%	54%	17%	62%	27%
	INFN-LNL-2	61%	65%	99%	93%	96%

## SAM tests

## Lowish reliability/availability due to downtimes for work on soft- and hardware