



LANCASTER
UNIVERSITY



Atlas distributed computing info for users and site admins

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Overview

- Brief sites report
- Disseminating info
- Sysadmin examples
- User examples
- Key URLs to find info
- Atlas UK support

Operations news

- Last two weeks have been troubled by Castor problems, not understood yet but latest news is RAL back in production
- Ongoing effort to have resilience in T2 -> T1 relationship. ie. associate T2s with other T1s
- Atlas space tokens have been mostly deployed 70+ tokens on UK sites, thanks for the effort here
 - Not all sites need all space tokens
 - Usage to increase imminently
 - ACLs capability still being understood (mostly for dCache sites)

WEDNESDAY, 27 AUGUST 2008

CASTOR returns, but at risk

RAL reopened the ATLAS CASTOR instance today, but it still runs "at risk". On the operations side we have turned on the functional test data to RAL to provide load while the experts still try and nail the problem. If you do have a problem getting then it is worth checking the status with atlas-support-cloud-uk@cern.ch before reporting a bug.

AT 14:49



Walltime report 2008Q2

Site	Total Walltime (s)	SE Errors	ATLAS Errors	Other Errors	Batch System	Catalog Errors	Site Errors	Total Errors
RAL-LCG2	3675688515	3.3	4.5	0.3	26.8	0.0	30.1	34.9
UKI-LT2-Brunel	275775697	1.6	10.3	0.3	42.2	0.0	43.8	54.4
UKI-LT2-IC-HEP	261075612	2.7	11.1	0.1	12.7	0.0	15.4	26.6
UKI-LT2-RHUL	768890809	4.4	1.6	0.2	16.8	0.0	21.2	23.0
UKI-LT2-UCL-HEP	167512864	1.8	22.2	0.6	11.7	0.0	13.5	36.3
LondonGrid	1473254982	3.2	4.8	0.3	19.0	0.1	22.1	27.0
UKI-NORTHGRID-LANCS-HEP	1131449020	3.6	6.8	0.0	17.1	0.0	20.7	27.5
UKI-NORTHGRID-LIV-HEP	2017668994	0.6	10.5	0.4	18.0	0.0	18.6	29.5
UKI-NORTHGRID-MAN-HEP	1127188749	6.1	19.0	0.1	12.1	0.0	18.2	37.3
UKI-NORTHGRID-SHEF-HEP	658289162	1.5	5.9	0.3	4.7	0.0	6.2	12.4
NorthGrid	4934595925	2.6	10.3	0.3	14.2	0.1	16.6	27.0
UKI-SCOTGRID-DURHAM	97964432	3.0	0.4	0.1	2.0	0.0	5.0	5.5
UKI-SCOTGRID-ECDF	706927259	0.6	1.9	0.0	53.5	0.0	54.1	56.0
UKI-SCOTGRID-GLASGOW	1094783909	0.0	3.2	0.2	3.4	0.0	3.4	6.8
ScotGrid	1899675600	1.0	1.3	0.6	20.6	0.6	21.0	21.7
UKI-SOUTHGRID-BHAM-HEP	2762387	0.0	27.1	0.1	11.3	0.0	11.3	38.5
UKI-SOUTHGRID-CAM-HEP	81016272	3.1	9.2	0.0	6.0	0.0	9.1	18.3
UKI-SOUTHGRID-OX-HEP	638669714	0.9	10.0	0.1	10.7	0.0	11.6	21.7
UKI-SOUTHGRID-RALPP	852977725	3.7	0.4	0.8	32.8	0.0	36.5	37.7
SouthGrid	1575426098	1.1	5.1	0.6	5.2	0.5	5.7	10.3

Disseminating info

- <http://www.atlas.ac.uk>
- <http://atlasuk.blogspot.com>
- weekly meetings
- Maillists
- Production monitors: Panda and Dashboard

Sysadmin queries

- Why is my site empty?
- What jobs are running on my site?
- How can I anticipate heavy workload?
- How can I install/remove an Athena release?
- How does my site performance compare to others?
- My atlas users complain with some random grid issue, how can I probe the atlas services? (LFC, DDM)
- My storage is getting full, can Atlas please cleanup?
- My storage is empty, is something wrong with my storage?
- Is atlas task X broken or is it my site?
- ★ How can atlas help me spot blackhole nodes?
- Where do I find atlas job log files?

Answers available via these 3 basic resources

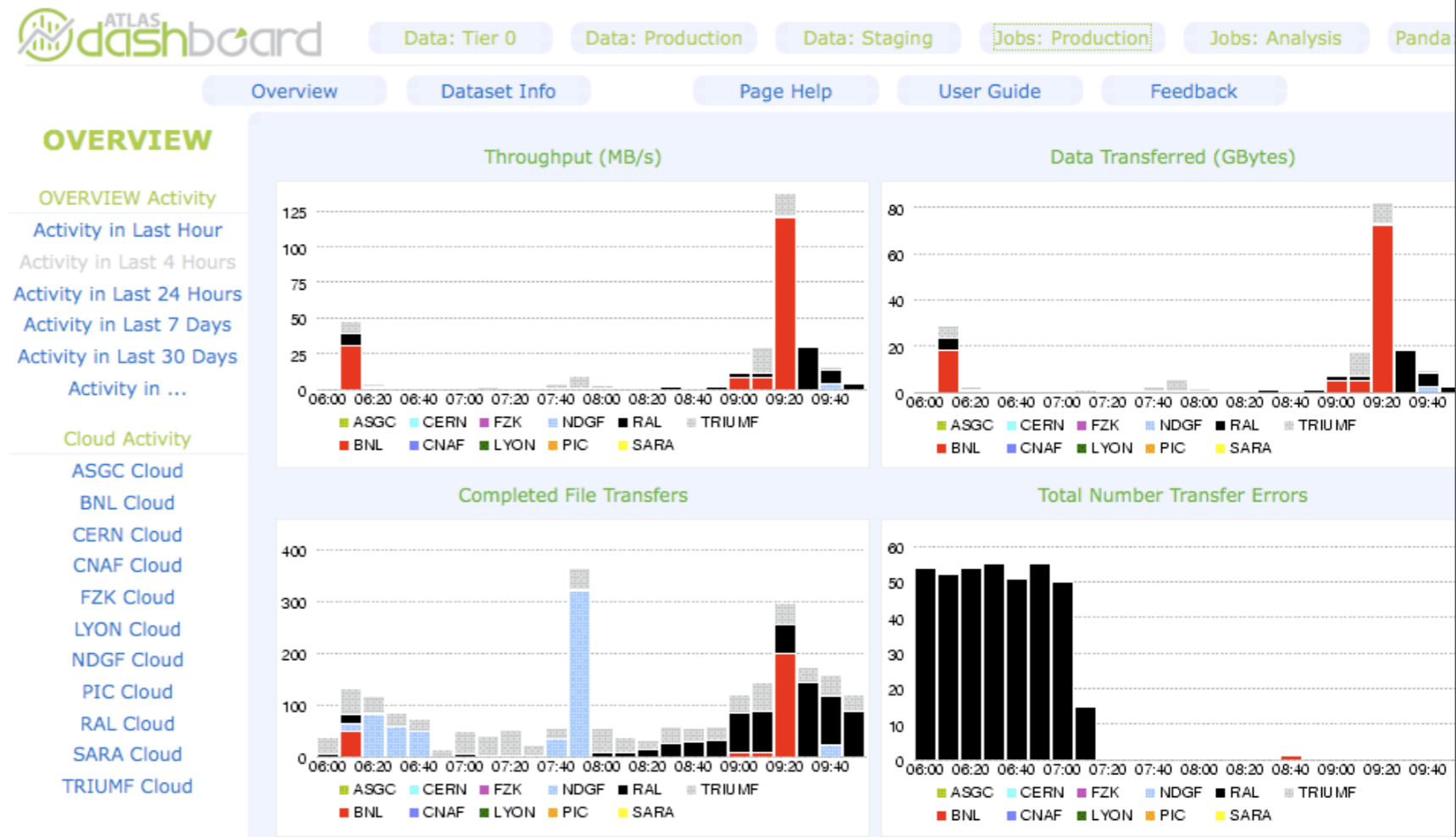
<http://www.atlas.ac.uk>

atlas-uk-comp-operations@cern.ch

<http://panda.atlascomp.org/>

Production dashboard

- <http://dashb-atlas-prodsys.cern.ch/dashboard/request.py/overview>
- Three main pages
 - Production jobs
 - Data transfers
 - T0 data transfers



<http://panda.atlascomp.org/>

[BNL monitor](#)

[Production](#) [Clouds](#) [DDM](#) [PandaMover](#) [AutoPilot](#) [Sites](#) [Analysis](#) [Physics data](#) [Usage](#) [Plots](#) [ProdDash](#) [DDMDash](#)

[Update](#)

Panda monitor

Times are in UTC

[Wiki](#) [Bugs](#)
[Shift elog](#) [CERN elog](#)

Quick guide to the Panda monitor

Jobs - [search](#)
Recent [running](#),
[activated](#), [waiting](#),
[assigned](#), [defined](#),
[finished](#), [failed](#) jobs
Select [analysis](#), [prod](#),
[install](#), [test](#) jobs

Quick search

Job
Dataset
Task request
Task status
File

Summaries

Blocks: days
Errors: days
Nodes: days

[Daily usage](#)

Tasks - [search](#)

[Generic Task Req](#)
[EvGen Task Req](#)

Reporting problems: Report Panda problems of any sort to the [Panda Savannah](#) ticketing system.

Monitor instances

[BNL](#): Primary production monitor
[CERN](#): Monitor for CERN instance of Panda
[atldq2pro.cern.ch](#): CERN based backup for BNL primary monitor

Top bar

Production: Panda Production Operations Dashboard. Summary of Panda production status
Clouds: Organization and task assignment of clouds (Tier 1 + Tier 2/3s) processing Panda jobs
DDM: Summary of DDM systems information and tools
PandaMover: Panda DQ2 dataset mover status. Monitors Panda jobs that replicate datasets using dq2-cr.
AutoPilot: Pilot submission system serving all of OSG and LCG
Sites & Grids: Collection of grid-wide and site-level monitoring links
Analysis: Information on Panda-based analysis using pathena
Physics data: ATLAS data discovery and access info and tools for physicists
Usage & Quotas CPU usage by user
Plots: History plots of Panda performance
ProdDash: Link to the ARDA ATLAS production dashboard
DDMDash: Link to the ARDA ATLAS DDM dashboard
List users: On extreme right, lists Panda users and gives access to 'your' Panda page

<http://panda.atlascomp.org/>

[BNL monitor](#)

1 min old [Update](#)

[Panda monitor](#)

Times are in UTC

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[Shift elog](#) [CERN elog](#)

[Production](#) [Clouds](#) [DDM](#) [PandaMover](#) [AutoPilot](#) [Sites](#) [Analysis](#) [Physics data](#) [Usage](#) [Plots](#) [ProdDash](#) [DDMDash](#)

Panda Production Operations Dashboard

Panda shift [guide](#) [calendar](#) [mailing list](#)
ADCoS [twiki](#) [calendar](#) [mailing list](#)
Production task support [mailing list](#)

[Click for help](#)

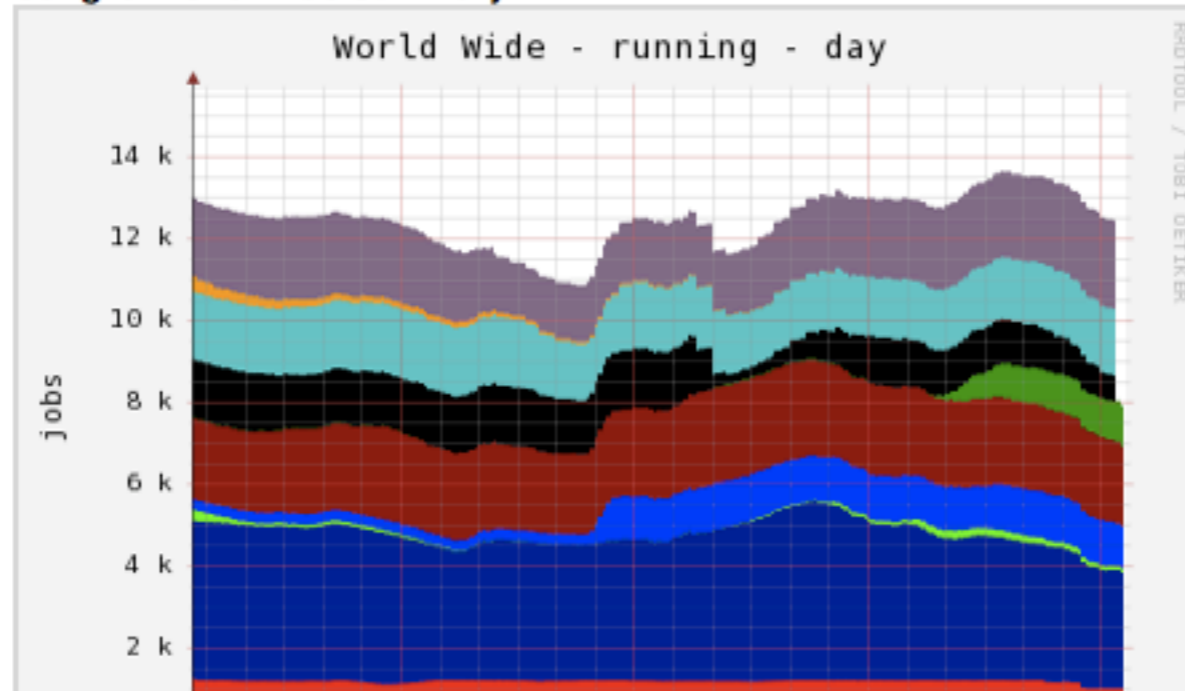
Servers: **BNL:OK** **BNLdev:OK** **CERN:OK** **Logger:OK** **Bamboo:OK**

Active tasks: CA:4 DE:12 ES:3 FR:12 IT:4 NL:5 **TW:3** UK:2 US:17
Bamboo [task brokerage](#), [job submissions](#), [status](#) over last 12 hours

Jobs updated >12 hrs ago: **activated:9826** **running:none**

Jobs updated >36 hrs ago: **transferring:565**

Ganglia World Wide Summary













Space available at sites:

Site	GB	As of (UTC)
US		
BU ATLAS Tier2	41342	09-03 06:24
BU ATLAS Tier2o	41342	09-03 06:34
MWT2 IU-pbs	71344	09-03 06:33
MWT2 UC-pbs	66185	09-03 06:27
OU OCHEP SWT2-condor	2266	09-03 06:35
SLACXRD-lsf	20897	09-03 06:34
SWT2 CPB-pbs	149932	09-03 06:35
UC ATLAS MWT2-condor	66185	09-03 06:32
Other SEs reporting in last 3 days		
ALBERTA-LCG2 PRODDISK	182	09-03 05:54
FZK-LCG2 MCDISK	38735	09-03 06:13
INFN-T1 MCDISK	9455	09-03 06:13
NDGF-T1 MCDISK	17816	09-03 05:54
PIC MCDISK	34195	09-03 06:14
RAL-LCG2 MCDISK	90828	09-03 06:14
SFU-LCG2 PRODDISK	1270	09-03 05:55
TAIWAN-LCG2 MCDISK	35444	09-03 00:15
TORONTO-LCG2 PRODDISK	100	09-03 05:54

<http://panda.atlascomp.org/>

Production job summary, last 12 hours (Details: [errors](#), [nodes](#))

Cloud Information	Nodes	Jobs	Latest	Pilots (3hrs)	defined	assigned	waiting	activated	running	holding	transferring	finished	failed tot trf
Overall Production	6143	86821	09-03 06:35	7855	0 / 0	195 / 0	22 / 0	24140 / 596	12185 / 0	2376 / 0	8974 / 565	21159 / 0	17953 / 0 46% 4
CA 	511	6824	09-03 06:35	373	0	0	0	2038	991	26	436 / 0	2637	696 21% 0
CERN 	0	0		915	0	0	0	0	0	0	0 / 0	0	0
DE 	251	1528	09-03 06:35	418	0	0	21	0	94	5	847 / 3	358	224 38% 0
ES 	318	7341	09-03 06:35	270	0	21	0	2191	1086	36	1764 / 562	2040	203 9% 0%
FR 	1423	19508	09-03 06:35	2611	0	3	0	3323	1925	1515	1270 / 0	3961	7511 65% 0
IT 	519	9164	09-03 06:35	264	0	0	0	4337	2158	24	512 / 0	1933	200 9% 0%
NL 	522	8969	09-03 06:35	740	0	13	0	3288	1591	87	453 / 0	1983	1418 42% 2
UK 	565	3116	09-03 06:35	808	0	71	0	1906	977	22	15 / 0	91	34 27% 0
US 	1565	23021	09-03 06:35	1142	0	20	1	5664	2846	593	3400 / 0	7813	2684 26% 1
TW 	469	7350	09-03 06:35	314	0	67	0	1095	517	68	277 / 0	343	4983 94% 0

<http://panda.atlascomp.org/>

Site Name	565	3116	09-03 06:35	808	0	71	0	1906	977	22	15 / 0	91	34	27% 0% 27%
RAL 	32	392	09-03 06:34	24	0	0	0	200	93	8	0 / 0	91	0	0% 0% 0%
UKI-LT2-Brunel1 	0	0		0	0	0	0	0	0	0	0 / 0	0	0	
UKI-LT2-Brunel2 	0	0		0	0	0	0	0	0	0	0 / 0	0	0	
UKI-LT2-IC-HEP 	0	0		0	0	0	0	0	0	0	0 / 0	0	0	
UKI-LT2-OMUL 	0	0		221	0	0	0	0	0	0	0 / 0	0	0	
UKI-LT2-RHUL 	48	615	09-03 06:35	14	0	0	0	425	172	0	0 / 0	0	18	100% 0% 100%
UKI-LT2-UCL-HEP 	0	0		96	0	0	0	0	0	0	0 / 0	0	0	
UKI-NORTHGRID-LANCS-HEP 	153	654	09-03 06:35	1	0	0	0	431	223	0	0 / 0	0	0	
UKI-NORTHGRID-LIV-HEP 	165	441	09-03 06:34	11	0	15	0	262	164	0	0 / 0	0	0	
UKI-NORTHGRID-MAN-HEP1 	1	42	09-03 02:13	206	0	42	0	0	0	0	0 / 0	0	0	
UKI-NORTHGRID-SHEF-HEP 	58	288	09-03 06:35	5	0	0	0	173	102	3	10 / 0	0	0	
UKI-SCOTGRID-DURHAM 	0	0		91	0	0	0	0	0	0	0 / 0	0	0	
UKI-SCOTGRID-ECDF 	1	8	09-01 22:34	0	0	0	0	8	0	0	0 / 0	0	0	
UKI-SOUTHGRID-BHAM-HEP 	0	0		111	0	0	0	0	0	0	0 / 0	0	0	
UKI-SOUTHGRID-CAM-HEP 	7	21	09-03 06:34	1	0	0	0	15	6	0	0 / 0	0	0	
UKI-SOUTHGRID-OX-HEP 	14	132	09-03 06:34	3	0	0	0	87	44	1	0 / 0	0	0	

<http://panda.atlascomp.org/>

Worker nodes active in the last 12 hours (0.5 days)

Managed production jobs only. Show **production**, [analysis](#), [test](#), [all](#) jobs/CEs

[See summary for all sites](#)

Details for site: UKI-LT2-RHUL

WN	Latest	defined	assigned	waiting	activated	running	holding	transferring	finished	failed
UKI-LT2-RHUL: 48 nodes, 615 jobs	2008-09-03 06:47:57	0	0	0	424	173	0	0	0	18
gridui05.usatlas.bnl.gov	2008-09-03 06:02:28				424					
node001	2008-09-03 06:39:55					4				1
node002	2008-09-03 06:39:51					5				
node003	2008-09-03 06:39:38					6				1
node004	2008-09-03 06:47:57					2				1
node005	2008-09-03 06:47:54					1				
node006	2008-09-03 06:47:55					4				1
node007	2008-09-03 06:47:51					4				1
node008	2008-09-03 06:42:00					4				
node009	2008-09-03 06:47:50					5				1
node010	2008-09-03 06:44:06					5				
node011	2008-09-03 06:41:51					3				1
node012	2008-09-03 06:41:50					4				
node013	2008-09-03 06:39:06					3				
node014	2008-09-03 06:46:27					5				1
node015	2008-09-03 06:39:43					3				
node016	2008-09-03 06:41:27					4				

Central services

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[Documentation](#)

[Alarms](#)

[Metrics](#)

[Misc](#)

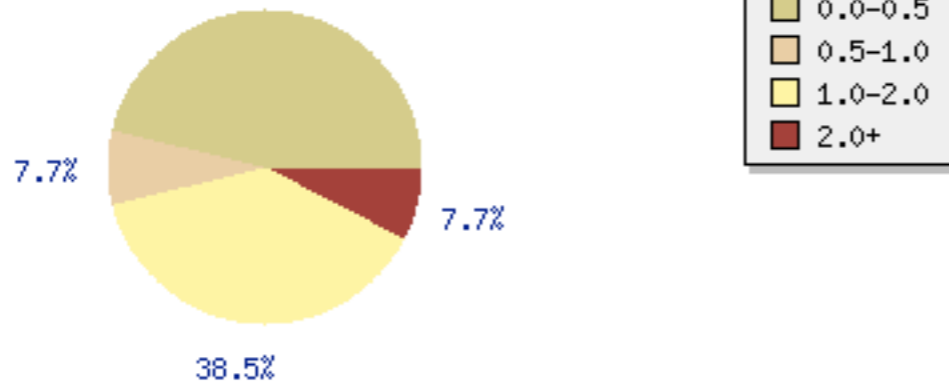
[Help](#)

Information for cluster of hosts: arda subcluster atlddm

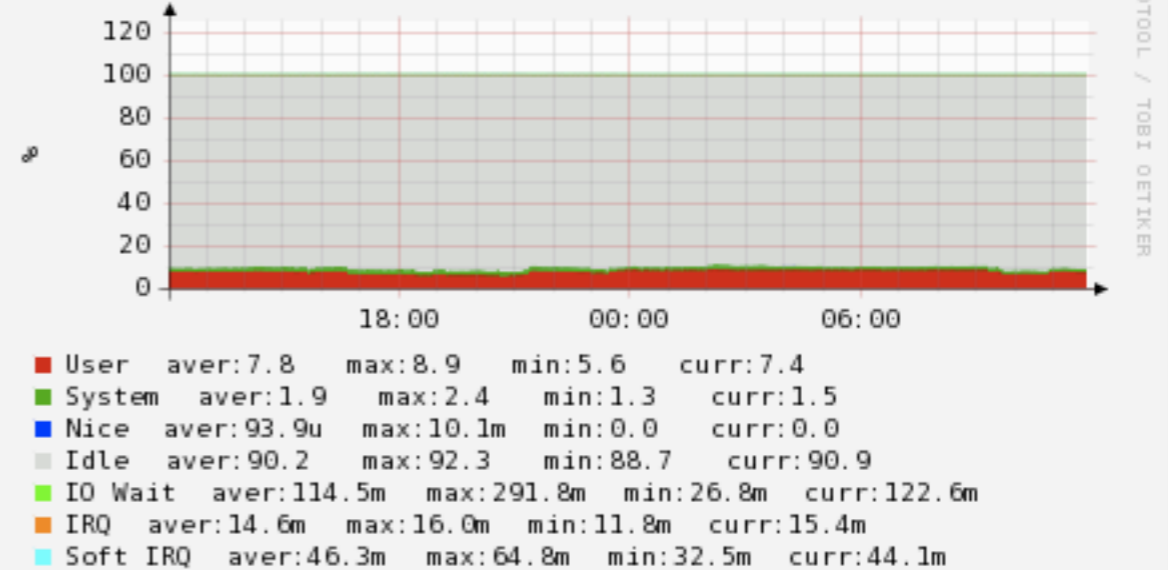
Cluster information

number of hosts (down)	21 (0)
operating system(s)	Scientific Linux CERN SLC release 4.6 (Beryllium)
average of up times	75 days, 6h:46m
select from hosts	None <input type="button" value="v"/>

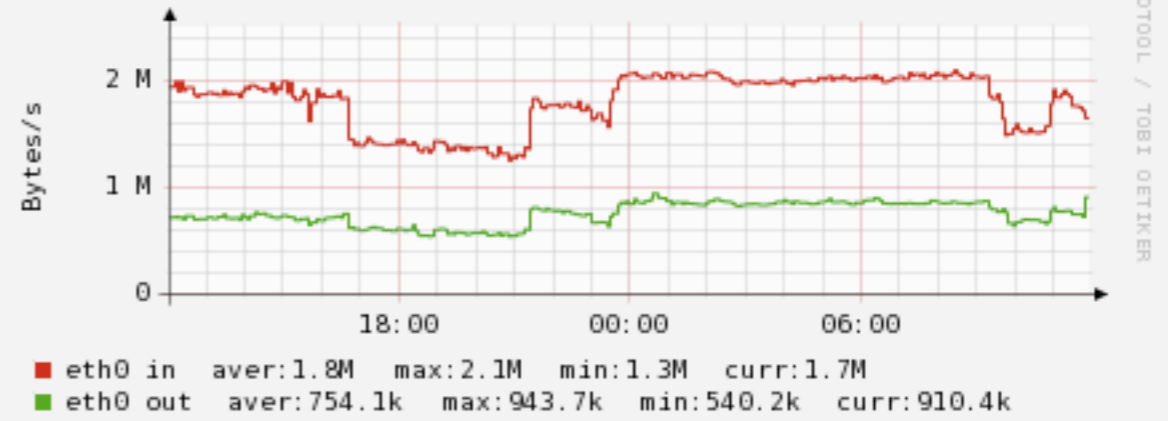
Load average distribution
46.2%



CPU utilization



Network utilization



Set span: offset:

Search entities:

[Virtual Clusters](#) ▶

[Clusters](#) ▶

[Racks](#) ▶

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RAL cloud-dashboard

site	defined	assigned	waiting	activated	running	holding	transferring	success	failure	efficiency
✘ UKI-NORTHGRID-LIV-HEP	0	30	0	223	193	11	19	8	0	100%
✘ UKI-SCOTGRID-ECDF	0	0	0	8	1	0	12	0	0	-
✘ UKI-NORTHGRID-LANCS-HEP	0	15	0	402	145	20	94	12	0	100%
✘ UKI-LT2-IC-HEP	0	0	0	0	0	2	4	0	0	-
✘ UKI-LT2-Brunel	0	0	0	0	0	3	5	0	0	-
✘ RAL-LCG2	0	0	0	81	97	63	0	220	0	100%
✘ UKI-SCOTGRID-GLASGOW	0	18	0	191	180	6	101	1164	15	98.7%
✘ UKI-NORTHGRID-MAN-HEP	0	78	0	0	0	2	1	0	0	-
✘ UKI-LT2-QMUL	0	0	0	0	0	0	1	0	0	-
✘ UKI-SOUTHGRID-OX-HEP	0	21	0	92	81	1	31	5	3	62.5%
✘ UKI-LT2-RHUL	0	21	0	314	250	10	161	8	18	30.8%
✘ UKI-SOUTHGRID-CAM-HEP	0	21	0	33	6	1	3	2	0	100%
✘ UKI-SOUTHGRID-RALPP	0	19	0	202	196	7	141	8	51	13.6%
✘ UKI-NORTHGRID-SHEF-HEP	0	4	0	124	99	5	105	8	0	100%
<i>total</i>	<i>0</i>	<i>227</i>	<i>0</i>	<i>1670</i>	<i>1248</i>	<i>131</i>	<i>678</i>	<i>1435</i>	<i>87</i>	<i>94.3%</i>

CRITICAL

WARNING

NORMAL

GOOD

NO_ACTIVITY

User queries

- How do I learn about running Athena jobs? → <http://www.atlas.ac.uk>
- Why has my task stalled? → <http://panda.atlascomp.org/>
- Why is site X aborting my jobs? → <http://panda.atlascomp.org/>
- When should I submit a bug report, and how? →

Too involved, just email:
atlas-uk-comp-operations@cern.ch
- Instead of describing an action for possible failure modes, here is the catch-all system for all Atlas UK questions:
 - atlas-uk-comp-operations@cern.ch atlas-uk-comp-operations@cern.ch atlas-uk-comp-operations@cern.ch
- See the BLOG for general news → <http://atlasuk.blogspot.com>

physics analysis problem

which component is at fault?

your code

your UI env

ganga

grid tools/sites/atlas services

local athena expert

local sysadmin

ganga maillist
hn-atlas-GANGAUserDeveloper@cern.ch

uk support
atlas-uk-comp-users@cern.ch

pursue solution via these avenues

<http://www.atlas.ac.uk/>

➔ send new users here, we have the latest links



ATLAS UK

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Atlas UK is a [collaboration](#) of UK particle physicists working on various aspects of the Atlas detector experiment at CERN.

- » [Atlas collaboration main page](#)
- » [CERN users main page](#)
- » [Atlas e-News](#)
- » [Atlas Cavern \(live feed\)](#)

Sections

(Currently link to old pages)

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Maillists



ATLAS UK

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Maillists

Follow links for signup instructions

- » [JISCMail](#)
- » [Hypernews](#)
- » [Simba lists](#)

Analysis users

- » atlas-uk-comp-users@cern.ch (UK atlas user support, discussion, and announcements)
- » hn-atlas-GANGAUserDeveloper@cern.ch (global Ganga support)
- » gridpp-users@jiscmail.ac.uk (Support for all GridPP experiments)

Website support

Email the [webmaster](#) for content changes

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ATLAS UK

SITUATION REPORT FOR ATLAS UK COMPUTING

WEDNESDAY, 27 AUGUST 2008

CASTOR returns, but at risk

RAL reopened the ATLAS CASTOR instance today, but it still runs "at risk". On the operations side we have turned on the functional test data to RAL to provide load while the experts still try and nail the problem. If you do have a problem getting then it is worth checking the status with atlas-support-cloud-uk@cern.ch before reporting a bug.

AT [14:49](#)

FRIDAY, 22 AUGUST 2008

RAL CASTOR Restart on Tuesday

RAL have announced that they will reopen CASTOR for ATLAS on Tuesday, but will effectively be "at risk" because the underlying problem is still not well understood.

We've taken the decision to reopen Castor on Tuesday, expected to be around noon BST. We do not fully understand the problem and have not been able to reproduce it, but have determined that there is no risk to data as only get requests are affected and the failure state appears to be intermittent.

AT [23:00](#)

LFC Outage At RAL

There will be an update to the LFC version running at RAL on Tuesday. The outage will be on [Tuesday 26th August from 1pm until 2pm BST](#).

BLOG ARCHIVE

▼ [2008](#) (36)

- ▼ [08/24 - 08/31](#) (1)
 - [CASTOR returns, but at risk](#)
- ▶ [08/17 - 08/24](#) (3)
- ▶ [08/10 - 08/17](#) (1)
- ▶ [08/03 - 08/10](#) (4)
- ▶ [07/27 - 08/03](#) (1)
- ▶ [07/20 - 07/27](#) (3)
- ▶ [07/13 - 07/20](#) (2)
- ▶ [07/06 - 07/13](#) (5)
- ▶ [06/29 - 07/06](#) (2)
- ▶ [06/22 - 06/29](#) (2)
- ▶ [06/15 - 06/22](#) (4)
- ▶ [06/08 - 06/15](#) (5)
- ▶ [06/01 - 06/08](#) (2)
- ▶ [05/25 - 06/01](#) (1)

LINKS

[Atlas UK homepage](#)

Operational meetings

- ADCoS shifts weekly on Tuesday 1400hrs
- ADC development weekly on Wednesday 1500hrs
- ADC operations weekly on Thursday 1430hrs
- All agenda listed on Indico page: <http://indico.cern.ch/categoryDisplay.py?categId=1706>
- UK Atlas Operations weekly on Thursday at 1000hrs

Key URLs

- Atlas UK homepage <http://www.atlas.ac.uk>
- Panda monitor <http://panda.atlascomp.org/>
- Production dashboard <http://dashb-atlas-prodsys.cern.ch/dashboard/request.py/overview>
- DDM twiki <https://twiki.cern.ch/twiki/bin/view/Atlas/DDMOperationsGroup>
- Indico <http://indico.cern.ch/categoryDisplay.py?categId=1706>
- Atlas participates in the centralized monitoring portals such as gridview, gstat, SAM

Summary

- Most user/sysadmin queries can be answered via 3 main resources: atlasuk website, dashboard/panda monitor, Atlas UK maillists.
- Dashboard is the best place to find production information and is being continuously developed to replace the Panda monitor
- Panda monitor is a window on the production database, rich source of task information
- Atlas UK people are a friendly bunch, if you need specific info, just ask the maillist atlas-uk-comp-operations@cern.ch or email/IM the crew. Thursday phone conference is open to anyone interested, connection details on <http://www.atlas.ac.uk>

URL dump

- <https://twiki.cern.ch/twiki/bin/view/Atlas/ADCoS>
- <http://panda.atlascomp.org/>
- <http://atlas003.uta.edu:8080/ADCoS/>
- <https://prod-grid-logger.cern.ch/elog/ATLAS+Computer+Operations+Logbook/>
- <http://dashb-atlas-prodsys.cern.ch/dashboard/request.py/overview>
- https://gus.fzk.de/pages/all_my_team.php
- <http://www.atlas.ac.uk/>
- https://atlas-install.roma1.infn.it/atlas_install/
- <http://atlasuk.blogspot.com/>
- <http://svr017.gla.scotgrid.ac.uk/factory/logs/>
- <https://lemonweb.cern.ch/lemon-web/info.php?entity=lxb1603>
- <http://ganglia.gridpp.rl.ac.uk/cgi-bin/ganglia-fts/fts-page.pl>