



# **Panda Tutorial – Part II**

**Kaushik De**

**University of Texas At Arlington**

**U.S. ATLAS Tier 2 Workshop, Bloomington**

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# Why Tier 3 Sites Should Join Panda?



- ❑ Panda requirements are minimal – easier to maintain site for ATLAS users (than standalone site)
  - ❑ Installations are automated
  - ❑ Support in debugging site problems
- ❑ Better utilization of pooled resources
  - ❑ Resources are available to others when not used locally
  - ❑ Local users have higher level of access to all sites
- ❑ Access to common storage
  - ❑ By associating with Tier 2, have direct access to large SE
  - ❑ Seamless access to all AOD data server by Tier 2
- ❑ Let's look at some examples

**Hot Link!**



[http://panda.atlascomp.org/?](http://panda.atlascomp.org/)



## Topic: Monitoring execution of jobs

# Monitoring Production



<a href="#">Configuration</a>	Dashboards: <a href="#">Production</a> <a href="#">DDM</a> <a href="#">Sites &amp; Grids</a> <a href="#">Analysis</a> <a href="#">Physics data</a> <a href="#">Task definition</a> <a href="#">Usage &amp; Quotas</a> <a href="#">TestPilot</a> <a href="#">Plots</a>	Not logged in. <a href="#">List users</a>
<a href="#">Panda monitor</a> <a href="#">Panda wiki</a>	<b>Panda monitor front page</b>	<b>Next</b>
<b>Jobs</b> - <a href="#">search</a> Recent <a href="#">running</a> , <a href="#">activated</a> , <a href="#">waiting</a> , <a href="#">assigned</a> , <a href="#">defined</a> , <a href="#">finished</a> , <a href="#">failed</a> jobs Select <a href="#">analysis</a> , <a href="#">production</a> , <a href="#">test</a> jobs	<b>Quick guide to the Panda monitor</b>  <b>Reporting problems:</b> Report Panda problems of any sort to the <a href="#">Panda Savannah</a> ticketing system.  <b>Dashboards:</b> Dashboards linked in the top bar are pages gathering the useful functions, documentation, status displays etc. for specific user communities: production operators, DDM operators, physicists looking for data or entering production tasks, Panda based analysis, etc.  <b>Jobs running in Panda:</b> Job links at left list the running, activated (ready for pickup by a pilot), waiting (waiting for input data availability), assigned (brokered and waiting for completion of input data transfer to processing site), defined (awaiting brokerage), finished and failed jobs. Analysis jobs (as opposed to managed production jobs) can be listed separately. The 'old archive' contains all finished/failed jobs older than 3 days.  <b>Quick searches:</b> Enter a Panda job name or ID, dataset name or ID, or task name or ID into the appropriate field and hit return in order to do a quick lookup.  <b>Summaries:</b> Enter a day count in the desired summary field and hit return to bring up a summary covering the last N days. The 'blocks' summary shows the production datablocks (datasets) currently being processed in the production system, with details on where they are being processed, job states etc. The 'errors' summary shows overall production status at all Panda sites with details of the error conditions encountered. The 'nodes' summary shows worker nodes active at all production sites with statistics on processed jobs and states.  <b>Tasks:</b> Task request forms are provided for entering generic, event generation and CTB tasks. The full task list gives statistics on tasks by grid and a listing of all tasks. The task browser allows selection of tasks based on their metadata (physics type, production series, release, output type, etc.) with navigation to datasets associated with the task, where data availability and access information is provided. Task browser, list and request forms cover <i>all</i> of ATLAS, not just Panda/OSG/US.  <b>Datasets:</b> The <a href="#">dataset browser</a> allows browsing of DQ2 datasets based on dataset metadata and site selections. Dataset searches can be done with the search form (with wildcards) or quick search (by name, no wildcards). Listings are available for input datasets (a short list; the datasets which are inputs to the tasks processed by Panda), output datasets (very long -- the datasets produced by Panda production -- but the task browser is more convenient for navigating to produced data), dispatch blocks (Panda internal), and all datasets. Long lists are truncated and useful only to get the overall count and a sample list.	
<b>Quick search</b> Job <input type="text"/> Dataset <input type="text"/> Task <input type="text"/> File <input type="text"/>  <b>Summaries</b> Blocks: <input type="text"/> days Errors: <input type="text"/> days Nodes: <input type="text"/> days <a href="#">Daily usage</a>		
<b>Tasks</b> - <a href="#">search</a> <a href="#">Generic Task Reg</a> <a href="#">EvGen Task Reg</a>		

# Overall Production



[CTBsim Task Reg](#)  
[Task list](#)  
[Task browser](#)

**Datasets - search**  
[Dataset browser](#)  
[New datasets](#)  
[Panda subscriptions](#)  
[All subscriptions](#)

**Sites - see all**  
[BNL](#) [BU](#) [IU](#) [OU](#) [SLAC](#)  
[UC](#) [UMICH](#) [UTA](#) [LCG](#)  
[NG](#)

[Logging monitor](#)

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

Site	Nodes	Jobs	Latest	defined	assigned	waiting	activated	running	holding	transferring	finished	failed	tot	trf	other
All	788	8923	12-04 14:58	<u>0</u>	<u>220</u>	<u>1</u>	<u>2760</u>	<u>1499</u>	<u>4</u>	<u>3105</u>	<u>981</u>	<u>322</u>	25%	17%	8%
<a href="#">BNL ATLAS_1</a>	222	2345	12-04 14:58	0	0	0	<u>1166</u>	<u>634</u>	0	0	<u>476</u>	<u>69</u>	13%	0%	13%
<a href="#">BNL ATLAS_2</a>	0	0		0	0	0	0	0	0	0	0	0			
<a href="#">BU ATLAS_Tier2</a>	28	149	12-04 14:51	0	<u>34</u>	0	0	<u>70</u>	0	<u>43</u>	0	<u>2</u>	100%	0%	100%
<a href="#">BU ATLAS_Tier2o</a>	15	301	12-04 14:58	0	<u>21</u>	0	<u>77</u>	<u>56</u>	0	<u>104</u>	<u>42</u>	<u>1</u>	2%	0%	2%
<a href="#">IU ATLAS_Tier2</a>	22	137	12-04 14:20	0	0	0	<u>84</u>	0	0	<u>50</u>	0	<u>3</u>	100%	33%	67%
<a href="#">MWT2_IU</a>	19	372	12-04 14:50	0	<u>20</u>	0	<u>56</u>	<u>67</u>	0	<u>226</u>	0	0			
<a href="#">MWT2_UC</a>	13	334	12-04 14:56	0	<u>20</u>	0	<u>73</u>	<u>47</u>	0	<u>194</u>	0	0			
<a href="#">Unassigned</a>	2	4	12-04 04:36	0	0	<u>1</u>	0	0	0	0	<u>2</u>	<u>1</u>	33%	0%	33%
<a href="#">OU OCHEP_SWT2</a>	41	529	12-04 14:58	0	0	0	<u>146</u>	<u>82</u>	0	<u>238</u>	<u>62</u>	<u>1</u>	2%	0%	2%
<a href="#">PROD_SLAC</a>	131	1255	12-04 14:58	0	<u>20</u>	0	<u>244</u>	<u>86</u>	0	<u>663</u>	<u>40</u>	<u>202</u>	83%	76%	7%
<a href="#">UBC</a>	0	0		0	0	0	0	0	0	0	0	0			
<a href="#">UC ATLAS_MWT2</a>	46	615	12-04 14:57	0	<u>21</u>	0	<u>168</u>	<u>79</u>	0	<u>227</u>	<u>117</u>	<u>3</u>	2%	2%	0%
<a href="#">UC Teraport</a>	90	595	12-04 14:57	0	<u>21</u>	0	<u>181</u>	<u>62</u>	<u>1</u>	<u>288</u>	<u>36</u>	<u>5</u>	12%	0%	12%
<a href="#">IIMATI AS</a>	0	0		0	0	0	0	0	0	0	0	0			

# Explanation of Panda Job States



- ❑ Defined – number of jobs received from ProdSys
- ❑ Assigned – jobs assigned to a site, DDM subscriptions initiated but input file transfer not completed
- ❑ Waiting – input file has not been generated or not available
- ❑ Activated – input file is available at site, waiting for CPU
- ❑ Running – number of jobs actually executing at a site
- ❑ Holding – Panda is waiting to change state: grid or service failure (e.g. access to central servers)
- ❑ Transferring – jobs which completed execution at site, but waiting for output files to be transferred to BNL T1
- ❑ Finished – number of jobs successfully finished
- ❑ Failed – failed jobs, which may be automatically retried

# Screenshot from Yesterday!



**Panda Production Operations Dashboard - Mozilla Firefox**

File Edit View Go Bookmarks Tools Help

http://gridui02.usatlas.bnl.gov:25880/server/pandamon/query?dash=prod

NYTimes heppc1 My Yahoo! BBC Panda New Info At work At home

US ATLAS Tier2 workshop ... Panda Production Oper...

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

Site	Nodes	Jobs	Latest	defined	assigned	waiting	activated	running	holding	transferring	finished	failed	tot	trf	other
All	1636	17124	06-20 13:45	1	113	1000	172	40	804	10924	1	4069	100%	0%	100%
AGLT2	7	23	06-19 03:27	0	0	0	2	0	13	8	0	0			
BNL ATLAS 1	330	2402	06-20 13:06	0	0	0	0	35	765	0	1	1601	100%	0%	100%
BNL ATLAS 2	0	0		0	0	0	0	0	0	0	0	0			
BU ATLAS Tier2	26	412	06-20 13:06	0	2	0	1	0	3	224	0	182	100%	0%	100%
BU ATLAS Tier2o	70	3315	06-20 13:06	0	0	0	0	0	1	2781	0	533	100%	0%	100%
IU ATLAS Tier2	27	61	06-20 13:06	0	0	0	0	0	5	26	0	30	100%	0%	100%
MWT2 IU	39	264	06-20 13:06	0	15	0	0	0	0	226	0	23	100%	0%	100%
MWT2 UC	34	1960	06-20 13:06	0	0	0	0	0	0	1687	0	273	100%	0%	100%
Unassigned	1	1001	06-19 09:28	1	0	1000	0	0	0	0	0	0			
OU OCHEP SWT2	40	608	06-20 13:06	0	0	0	0	1	4	420	0	183	100%	0%	100%
OU OSCER ATLAS	172	449	06-20 13:05	0	0	0	168	0	2	185	0	94	100%	0%	100%
PROD SLAC	0	0		0	0	0	0	0	0	0	0	0			
SLACXRD	185	1385	06-20 13:04	0	12	0	1	0	3	1346	0	23	100%	0%	100%
UC ATLAS MWT2	40	683	06-20 13:45	0	0	0	0	4	2	514	0	163	100%	0%	100%
UC Teraport	70	1327	06-20 13:06	0	84	0	0	0	2	1091	0	150	100%	0%	100%
UTA-DPCC	40	394	06-20 13:06	0	0	0	0	0	0	239	0	155	100%	0%	100%
UTA SWT2	151	2840	06-20 13:06	0	0	0	0	0	4	2177	0	659	100%	0%	100%

Done



# Storage and Pilots



File Edit View Go Bookmarks Tools Help

http://gridui02.usatlas.bnl.gov:25880/server/pandamon/query?dash=prod

NYTimes heppc1 My Yahoo! BBC Panda New Info At work At home

**Configuration** Dashboards: [Production](#) [DDM](#) [AutoPilot](#) [Sites & Grids](#) [Analysis](#) [Physics data](#) [Usage & Quotas](#) [Plots](#) [ArdaDash](#)

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**Panda monitor** **Panda Production Operations Dashboard**

[Quick guide](#), [wiki](#) Panda shift [guide](#) [calendar](#) [mailing list](#)

**User info** Servers: **Panda:OK** **Panda-dev:OK** **Logger:OK** **DQ2:offline**

**Tasks assigned to OSG**

Jobs updated >12 hrs ago: **activated:168** **running:17**

Jobs updated >36 hrs ago: **transferring:6114**

**Space available at sites:**

Site	GB	As of
<a href="#">BU ATLAS Tier2</a>	693	06-19 12:06
<a href="#">BU ATLAS Tier2o</a>	728	06-19 07:33
<a href="#">IU ATLAS Tier2</a>	380	06-19 16:43
<a href="#">MWT2 IU</a>	999995	06-19 03:41
<a href="#">MWT2 UC</a>	28714	06-19 08:38
<a href="#">OU OCHEP SWT2</a>	969	06-19 08:22
<a href="#">SLACXRD</a>	14538	06-19 03:52
<a href="#">UC ATLAS MWT2</a>	28740	06-19 06:18
<a href="#">UC Teraport</a>	2334	06-19 04:30
<a href="#">UTA-DPCC</a>	936	06-19 09:35
<a href="#">UTA SWT2</a>	3601	06-19 07:12

**Pilot job requests per hour, last 3 hours**

	Production	Analysis
AGLT2	945	
ANALY_BNL_ATLAS_1		23
ANALY_LONG_BNL_ATLAS		23
BNL_ATLAS_1	23	
<b>BNL_ATLAS_DDM</b>	47	0
IU_ATLAS_Tier2	24	

**Quick search**

Job

Dataset

Task

File

**Summaries**

Blocks:

days

Errors:

days

Done

# Analysis Jobs and Subscriptions Status



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

Site	Nodes	Jobs	Latest	defined	assigned	waiting	activated	running	holding	transferring	finished	failed tot trf other
All	14	41	12-04 13:29	<u>28</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>2</u>	<u>0</u>	<u>0</u>	<u>9</u>	<u>1</u> 10% 0% 10%
<a href="#">ANALY BNL ATLAS 1</a>	9	30	12-04 13:29	<u>22</u>	0	0	0	<u>2</u>	0	0	<u>6</u>	0 0% 0% 0%
<a href="#">ANALY BNL ATLAS 2</a>	0	0		0	0	0	0	0	0	0	0	0
<a href="#">ANALY LONG BNL ATLAS</a>	5	10	12-04 09:06	<u>6</u>	0	0	0	0	0	0	<u>3</u>	<u>1</u> 25% 0% 25%
<a href="#">ANALY UTA-DPCC</a>	0	0		0	0	0	0	0	0	0	0	0
<a href="#">Unassigned</a>	1	1	12-03 16:23	0	0	<u>1</u>	0	0	0	0	0	0

Summary of Panda subscriptions, last 12 hours ([details here](#)):

	DQ2 Files	Dispatch blocks				Destination blocks					Other					
		Total	Defined	Done	Latest	Total	Defined	Running	Closing	Done	Latest	Total	Defined	Running	Done	Latest
<a href="#">BNLPANDA</a>	<a href="#">DQ2 Files</a>	0	0	0		236	127	4	11	94	12-04 14:58	11	10	0	0	
<a href="#">BU</a>	<a href="#">DQ2 Files</a>	11	3	8	12-04 14:54	0	0	0	0	0		0	0	0	0	
<a href="#">IU</a>	<a href="#">DQ2 Files</a>	1	0	1	12-04 03:04	0	0	0	0	0		0	0	0	0	
<a href="#">MWT2_IU</a>	<a href="#">DQ2 Files</a>	28	1	27	12-04 14:51	0	0	0	0	0		0	0	0	0	
<a href="#">MWT2_UC</a>	<a href="#">DQ2 Files</a>	22	1	21	12-04 14:56	0	0	0	0	0		0	0	0	0	
<a href="#">OU</a>	<a href="#">DQ2 Files</a>	5	0	5	12-04 14:51	0	0	0	0	0		0	0	0	0	
<a href="#">SLAC</a>	<a href="#">DQ2</a>	29	1	28	12-04 14:51	0	0	0	0	0		0	0	0	0	
<a href="#">UC</a>	<a href="#">DQ2 Files</a>	3	0	3	12-04 14:48	0	0	0	0	0		0	0	0	0	
<a href="#">UC_TP</a>	<a href="#">DQ2 Files</a>	6	0	6	12-04 14:49	0	0	0	0	0		1	0	0	0	12-04 03:06
<a href="#">UTA</a>	<a href="#">DQ2 Files</a>	4	0	4	12-04 14:53	0	0	0	0	0		0	0	0	0	
<a href="#">UTA_GWFS</a>	<a href="#">DQ2 Files</a>	12	0	12	12-04 14:54	0	0	0	0	0		0	0	0	0	



## Topic: Debugging Errors

# Overall Production



Next

[CTBsim Task Reg](#)  
[Task list](#)  
[Task browser](#)

**Datasets - search**  
[Dataset browser](#)  
[New datasets](#)  
[Panda subscriptions](#)  
[All subscriptions](#)

**Sites - see all**  
[BNL](#) [BU](#) [IU](#) [OU](#) [SLAC](#)  
[UC](#) [UMICH](#) [UTA](#) [LCG](#)  
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[Logging monitor](#)

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

Site	Nodes	Jobs	Latest	defined	assigned	waiting	activated	running	holding	transferring	finished	failed	tot	trf	other
All	788	8923	12-04 14:58	<u>0</u>	<u>220</u>	<u>1</u>	<u>2760</u>	<u>1499</u>	<u>4</u>	<u>3105</u>	<u>981</u>	<u>322</u>	25%	17%	8%
<a href="#">BNL ATLAS_1</a>	222	2345	12-04 14:58	0	0	0	<u>1166</u>	<u>634</u>	0	0	<u>476</u>	<u>69</u>	13%	0%	13%
<a href="#">BNL ATLAS_2</a>	0	0		0	0	0	0	0	0	0	0	0			
<a href="#">BU ATLAS Tier2</a>	28	149	12-04 14:51	0	<u>34</u>	0	0	<u>70</u>	0	<u>43</u>	0	<u>2</u>	100%	0%	100%
<a href="#">BU ATLAS Tier2o</a>	15	301	12-04 14:58	0	<u>21</u>	0	<u>77</u>	<u>56</u>	0	<u>104</u>	<u>42</u>	<u>1</u>	2%	0%	2%
<a href="#">IU ATLAS Tier2</a>	22	137	12-04 14:20	0	0	0	<u>84</u>	0	0	<u>50</u>	0	<u>3</u>	100%	33%	67%
<a href="#">MWT2 IU</a>	19	372	12-04 14:50	0	<u>20</u>	0	<u>56</u>	<u>67</u>	0	<u>226</u>	0	0			
<a href="#">MWT2 UC</a>	13	334	12-04 14:56	0	<u>20</u>	0	<u>73</u>	<u>47</u>	0	<u>194</u>	0	0			
<a href="#">Unassigned</a>	2	4	12-04 04:36	0	0	<u>1</u>	0	0	0	0	<u>2</u>	<u>1</u>	33%	0%	33%
<a href="#">OU OCHEP SWT2</a>	41	529	12-04 14:58	0	0	0	<u>146</u>	<u>82</u>	0	<u>238</u>	<u>62</u>	<u>1</u>	2%	0%	2%
<a href="#">PROD SLAC</a>	131	1255	12-04 14:58	0	<u>20</u>	0	<u>244</u>	<u>86</u>	0	<u>663</u>	<u>40</u>	<u>202</u>	83%	76%	7%
<a href="#">UBC</a>	0	0		0	0	0	0	0	0	0	0	0			
<a href="#">UC ATLAS MWT2</a>	46	615	12-04 14:57	0	<u>21</u>	0	<u>168</u>	<u>79</u>	0	<u>227</u>	<u>117</u>	<u>3</u>	2%	2%	0%
<a href="#">UC Teraport</a>	90	595	12-04 14:57	0	<u>21</u>	0	<u>181</u>	<u>62</u>	<u>1</u>	<u>288</u>	<u>36</u>	<u>5</u>	12%	0%	12%
<a href="#">IIMATI AS</a>	0	0		0	0	0	0	0	0	0	0	0			

# Typical Sources of Errors – Site Issues



3 min old [Update](#)

Not logged in. [List users](#)

[Panda monitor](#)

## Panda job error summary for last 12 hours (0.5 days)

[Quick guide](#), [twiki](#)

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

**Jobs** - [search](#)

Recent [running](#),  
[activated](#), [waiting](#),  
[assigned](#), [defined](#),  
[finished](#), [failed](#) jobs  
Select [analysis](#),  
[production](#), [test](#) jobs

**Quick search**

Job

Dataset

Task

File

**Summaries**

Blocks:

days

Errors:

days

Nodes:

days

[Daily usage](#)

**Tasks** - [search](#)

[Generic Task Reg](#)

[EvGen Task Reg](#)

[CTBsim Task Reg](#)

[Task list](#)

Job wall time: 9097 hrs Error losses: trans: 525 (5.8%) panda: 292 (3.2%) ddm: 143 (1.6%) other: 13 (0.1%)

Error type (type count)	Count	CPU-hrs	Latest	Code: Description
<b>All</b>	<a href="#">defined</a> :0 <a href="#">assigned</a> :199 <a href="#">waiting</a> :1 <a href="#">activated</a> :2733 <a href="#">running</a> :1518 <a href="#">holding</a> :4 <a href="#">transferring</a> :3065 <a href="#">finished</a> :1020 <a href="#">failed</a> :322 (24.0%)			
ddmErrorCode (11)	10	0.0	12-04 12:30	<a href="#">100</a> : DQ2 server error
ddmErrorCode (11)	1	0.0	12-04 04:36	<a href="#">200</a> : Could not add output files to dataset
jobDispatcherErrorCode (68)	<b>68</b>	292.0	12-04 05:29	<a href="#">100</a> : Lost heartbeat
pilotErrorCode (5)	1	0.0	12-04 05:31	<a href="#">1099</a> : DQ2 staging input file failed
pilotErrorCode (5)	3	19.6	12-04 08:18	<a href="#">1142</a> : DQ2 put error: failed to register the file on local SE
pilotErrorCode (5)	1	13.2	12-04 12:03	<a href="#">1150</a> : Looping job killed by pilot
taskBufferErrorCode (13)	13	123.3	11-20 01:31	<a href="#">101</a> : transfer timeout (2weeks)
transExitCode (225)	<b>31</b>	419.6	12-04 14:46	<a href="#">1</a> : Unspecified error, consult log file
transExitCode (225)	1	7.2	12-04 07:54	<a href="#">134</a> : Athena core dump or timeout, or conddb DB connect exception
transExitCode (225)	1	72.1	12-04 03:45	<a href="#">26</a> : TRF_ATHENACRASH - Athena crash
transExitCode (225)	<b>190</b>	6.4	12-04 07:21	<a href="#">51</a> : TRF_DBREL_TARFILE - Problems with the DBRelease tarfile
transExitCode (225)	2	19.3	12-04 14:27	<a href="#">6</a> : TRF_SEGVIO - Segmentation violation
<b>BNL_ATLAS_1</b>	<a href="#">defined</a> :0 <a href="#">assigned</a> :0 <a href="#">waiting</a> :0 <a href="#">activated</a> :1155 <a href="#">running</a> :634 <a href="#">holding</a> :0 <a href="#">transferring</a> :0 <a href="#">finished</a> :487 <a href="#">failed</a> :69 (12.4%)			
jobDispatcherErrorCode (68)	<b>68</b>	292.0	12-04 05:29	<a href="#">100</a> : Lost heartbeat
pilotErrorCode (1)	1	13.2	12-04 12:03	<a href="#">1150</a> : Looping job killed by pilot
<b>BNL_ATLAS_2</b>				
<b>BNL_ATLAS_3</b>	<a href="#">defined</a> :0 <a href="#">assigned</a> :43 <a href="#">waiting</a> :0 <a href="#">activated</a> :0 <a href="#">running</a> :0 <a href="#">holding</a> :0 <a href="#">transferring</a> :43 <a href="#">finished</a> :0 <a href="#">failed</a> :0			

# More Site Issues



## Logging monitor

<b>Unassigned</b>					defined:0 assigned:0 waiting:1 activated:0 running:0 holding:0 transferring:0 finished:2 failed:1 (33.3%)
d dmErrorcode (1)	1	0.0	12-04 04:36	200:	Could not add output files to dataset
<b>OU_OCHEP_SWT2</b>					defined:0 assigned:0 waiting:0 activated:144 running:82 holding:0 transferring:240 finished:62 failed:1 (1.6%)
taskBufferErrorcode (1)	1	28.6	11-20 00:03	101:	transfer timeout (2weeks)
<b>PROD_SLAC</b>					defined:0 assigned:20 waiting:0 activated:244 running:84 holding:1 transferring:664 finished:9 failed:202 (95.7%)
d dmErrorcode (10)	10	0.0	12-04 12:30	100:	DQ2 server error
pilotErrorcode (2)	1	0.0	12-04 05:31	1099:	DQ2 staging input file failed
pilotErrorcode (2)	1	0.8	12-04 08:18	1142:	DQ2 put error: failed to register the file on local SE
transExitcode (190)	190	6.4	12-04 07:21	51:	TRF_DBREL_TARFILE - Problems with the DBRelease tarfile
<b>UBC</b>					
<b>UC_ATLAS_MWT2</b>					defined:0 assigned:21 waiting:0 activated:167 running:79 holding:0 transferring:189 finished:156 failed:3 (1.9%)
transExitcode (3)	1	7.2	12-04 07:54	134:	Athena core dump or timeout, or conddb DB connect exception
transExitcode (3)	2	19.3	12-04 14:27	6:	TRF_SEGVIO - Segmentation violation
<b>UC_Teraport</b>					defined:0 assigned:21 waiting:0 activated:178 running:64 holding:0 transferring:271 finished:56 failed:5 (8.2%)
taskBufferErrorcode (5)	5	27.6	11-20 01:30	101:	transfer timeout (2weeks)
<b>UMATLAS</b>					
<b>UTA-DPCC</b>					defined:0 assigned:0 waiting:0 activated:47 running:21 holding:2 transferring:151 finished:0 failed:35
pilotErrorcode (2)	2	18.8	12-04 06:08	1142:	DQ2 put error: failed to register the file on local SE
taskBufferErrorcode (2)	2	17.0	11-20 00:34	101:	transfer timeout (2weeks)
transExitcode (31)	31	419.6	12-04 14:46	1:	Unspecified error, consult log file
<b>UTA_SWT2</b>					defined:0 assigned:63 waiting:0 activated:506 running:295 holding:1 transferring:933 finished:206 failed:0 (0.0%)

Bookmark URL: <http://panda.atlascomp.org?overview=errorlist&type=production&hours=12&reload=yes>  
 in case of problems [redirect to recommended monitor instance](#) or [check services list](#)

Run by sm

# Failures Yesterday!



**Panda job error summary for last 12 hours (0.5 days) - Mozilla Firefox**

File Edit View Go Bookmarks Tools Help

http://gridui02.usatlas.bnl.gov:25880/server/pandamon/query?overview=errorlist&type=production

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**Configuration** Dashboards: [Production](#) [DDM](#) [AutoPilot](#) [Sites & Grids](#) [Analysis](#) [Physics data](#) [Usage & Quotas](#) [Plots](#) [ArdaDash](#)

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**Panda monitor** **Panda job error summary for last 12 hours (0.5 days)**

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

**User info** Job wall time: 22732 hrs Error losses: trans: 46 (0.2%) panda: 74 (0.3%) ddm: 20223 (89.0%) other: 0 (0.0%)

Error type (type count)	Count	CPU-hrs	Latest	Code: Description
<b>All</b>	<a href="#">defined</a> :1 <a href="#">assigned</a> :113 <a href="#">waiting</a> :1000 <a href="#">activated</a> :172 <a href="#">running</a> :40 <a href="#">holding</a> :804 <a href="#">transferring</a> :10924 <a href="#">finished</a> :1 <a href="#">failed</a> :4069 (100.0%)			
ddmErrorCode (4070)	4070	20296.6	06-20 06:52	<a href="#">200</a> : Could not add output files to dataset
exeErrorCode (21)	1	0.2	06-19 07:50	<a href="#">1137</a> : DQ2 put error: Error in copying the file from job workdir to localSE
exeErrorCode (21)	2	4.0	06-18 10:52	<a href="#">1139</a> : DQ2 put error: Problem with copying from job workdir to local SE: size mismatch
exeErrorCode (21)	1	7.6	06-16 20:32	<a href="#">1154</a> : Failed to register log file
exeErrorCode (21)	2	2.1	06-19 04:45	<a href="#">13420</a> : Athena C++ exception
exeErrorCode (21)	1	0.9	06-19 03:58	<a href="#">60010</a> : segmentation fault
exeErrorCode (21)	1	3.4	06-19 08:13	<a href="#">62600</a> : AthenaCrash
exeErrorCode (21)	5	7.0	06-19 18:04	<a href="#">63400</a> : Transform unknown exceptions
exeErrorCode (21)	1	2.3	06-19 04:46	<a href="#">64040</a> : Transform input file corrupted
exeErrorCode (21)	3	0.1	06-19 06:25	<a href="#">65130</a> : Problems with the DBRelease tarfile
exeErrorCode (21)	4	30.4	06-19 16:05	<a href="#">69999</a> : Unknown Transform error
inhDispatcherErrorCode (6)				

Done

# Failures at Sites Yesterday!



**Panda job error summary for last 12 hours (0.5 days) - Mozilla Firefox**

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http://gridui02.usatlas.bnl.gov:25880/server/pandamon/query?overview=errorlist&type=production

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Site	defined	assigned	waiting	activated	running	holding	transferring	finished	failed
<b>OU_OSCER_ATLAS</b>	0	0	0	168	0	2	185	0	94
ddmErrorCode (94)	94	497.1	06-20 01:29	<a href="#">200</a>	Could not add output files to dataset				
pilotErrorCode (2)	2	20.4	06-19 21:20	<a href="#">1150</a>	Looping job killed by pilot				
<b>PROD_SLAC</b>									
<b>SLACXRD</b>	0	12	0	1	0	3	1346	0	23
ddmErrorCode (23)	23	104.6	06-19 10:19	<a href="#">200</a>	Could not add output files to dataset				
exeErrorCode (2)	2	4.0	06-18 10:52	<a href="#">1139</a>	DQ2 put error: Problem with copying from job workdir to local SE: size mismatch				
pilotErrorCode (2)	2	0.1	06-19 03:53	<a href="#">1099</a>	DQ2 staging input file failed				
<b>UC_ATLAS_MWT2</b>	0	0	0	0	4	2	514	0	163
ddmErrorCode (163)	163	1121.7	06-20 06:52	<a href="#">200</a>	Could not add output files to dataset				
exeErrorCode (1)	1	0.0	06-19 05:59	<a href="#">65130</a>	Problems with the DBRelease tarfile				
pilotErrorCode (4)	2	0.0	06-19 03:59	<a href="#">1099</a>	DQ2 staging input file failed				
pilotErrorCode (4)	2	33.1	06-19 06:41	<a href="#">1150</a>	Looping job killed by pilot				
<b>UC_Teraport</b>	0	84	0	0	0	2	1091	0	150
ddmErrorCode (150)	150	559.6	06-19 07:42	<a href="#">200</a>	Could not add output files to dataset				
<b>UTA-DPCC</b>	0	0	0	0	0	0	239	0	155
ddmErrorCode (155)	155	1265.2	06-19 18:32	<a href="#">200</a>	Could not add output files to dataset				
exeErrorCode (1)	1	9.3	06-19 16:05	<a href="#">69999</a>	Unknown Transform error				
<b>UTA_SWT2</b>	0	0	0	0	0	4	2177	0	659
ddmErrorCode (659)	659	3286.0	06-19 14:58	<a href="#">200</a>	Could not add output files to dataset				

http://gridui02.usatlas.bnl.gov:25880/server/pandamon/query?mode=archive&ddmErrorCode=200&hours=12



# Checking a Job Yesterday!



**Panda monitor and browser - Mozilla Firefox**

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http://gridui02.usatlas.bnl.gov:25880/server/pandamon/query?mode=archive&job=1967845

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**Panda monitor** **Panda job information**

[Quick guide, twiki](#) Selected jobs: 1967845

[User info](#)

**Jobs - search**  
Recent [running](#), [activated](#), [waiting](#), [assigned](#), [defined](#), [finished](#), [failed](#) jobs  
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**Quick search**  
Job   
Dataset   
Task   
File

**Summaries**  
Blocks:   
days   
Errors:

PandaID, Owner	Job	Status	Created	Time to start	Duration	Ended/Modified
<a href="#">1967845</a> <a href="mailto:i.hinchliffe@bl.gov">i.hinchliffe@bl.gov</a>	<a href="#">misal1_mc12.007264.singlepart_mu_p10.digit.v12000604_tid010496_16217.job#1</a> <b>Error details:</b> ddm: Adder._updateOutputs() could not get GUID/LFN/MD5/FSIZE <b>In:</b> <a href="#">mc12.007264.singlepart_mu_p10.evgen.EVNT.v12000604_tid010364</a> <b>Out:</b> <a href="#">misal1_mc12.007264.singlepart_mu_p10.simul.HITS</a>	failed	06-19 02:09	9:57:02	0:44:47	06-19 12:5

**Job 1967845 details**

5 files for job 1967845:

Filename	Type	Dataset
<a href="#">DBRelease-3.1.1.tar.gz</a>	input	<a href="#">ddo.000001.Atlas.Ideal.DBRelease.v030101</a>
<a href="#">mc12.007264.singlepart_mu_p10.evgen.EVNT.v12000604_tid010364_00001.pool.root.1</a>	input	<a href="#">mc12.007264.singlepart_mu_p10.evgen.EVNT.v12</a>
<a href="#">misal1_mc12.007264.singlepart_mu_p10.digit.RDO.v12000604_tid010496_16217.pool.root.1</a>	output	<a href="#">misal1_mc12.007264.singlepart_mu_p10.digit.RD</a> (destination block: ... sub154)
<a href="#">misal1_mc12.007264.singlepart_mu_p10.simul.HITS.v12000604_tid010496_16217.pool.root.1</a>	output	<a href="#">misal1_mc12.007264.singlepart_mu_p10.simul.HI</a> (destination block: ... sub154)
<a href="#">misal1_mc12.007264.singlepart_mu_p10.digit.log</a>		<a href="#">misal1_mc12.007264.singlepart_mu_p10.digit.log</a>

Done



## Topic: Debugging Individual Jobs

# Error Analysis – Typically Done by Shift Crew



**Configuration**    Dashboards: [Production](#) [DDM](#) [Sites & Grids](#) [Analysis](#) [Physics data](#) [Task definition](#) [Usage & Quotas](#) [TestPilot](#) [Plots](#)

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**Panda monitor**    **Panda job error summary for last 12 hours (0.5 days)**

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

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Job   
Dataset   
Task   
File

**Summaries**  
Blocks:   
days  
Errors:   
days  
Nodes:   
days  
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**Tasks** - [search](#)  
[Generic Task Req](#)  
[EvGen Task Req](#)  
[CTBsim Task Req](#)

Job wall time: 9097 hrs    Error losses: trans: 525 (5.8%)    panda: 292 (3.2%)    ddm: 143 (1.6%)    other: 13 (0.1%)

Error type (type count)	Count	CPU-hrs	Latest	Code: Description
<b>All</b>	<a href="#">defined</a> :0 <a href="#">assigned</a> :199 <a href="#">waiting</a> :1 <a href="#">activated</a> :2733 <a href="#">running</a> :1518 <a href="#">holding</a> :4 <a href="#">transferring</a> :3065 <a href="#">finished</a> :1020 <a href="#">failed</a> :322 (24.0%)			
ddmErrorCode (11)	10	0.0	12-04 12:30	<a href="#">100</a> : DQ2 server error
ddmErrorCode (11)	1	0.0	12-04 04:36	<a href="#">200</a> : Could not add output files to dataset
jobDispatcherErrorCode (68)	68	292.0	12-04 05:29	<a href="#">100</a> : Lost heartbeat
pilotErrorCode (5)	1	0.0	12-04 05:31	<a href="#">1099</a> : DQ2 staging input file failed
pilotErrorCode (5)	3	19.6	12-04 08:18	<a href="#">1142</a> : DQ2 put error: failed to register the file on local SE
pilotErrorCode (5)	1	13.2	12-04 12:03	<a href="#">1150</a> : Looping job killed by pilot
taskBufferErrorCode (13)	13	123.3	11-20 01:31	<a href="#">101</a> : transfer timeout (2weeks)
transExitCode (225)	31	419.6	12-04 14:46	<a href="#">1</a> : Unspecified error, consult log file
transExitCode (225)	1	7.2	12-04 07:54	<a href="#">134</a> : Athena core dump or timeout, or conddb DB connect exception
transExitCode (225)	1	72.1	12-04 03:45	<a href="#">26</a> : TRF_ATHENACRASH - Athena crash
transExitCode (225)	190	6.4	12-04 07:21	<a href="#">51</a> : TRF_DBREL_TARFILE - Problems with the DBRelease tarfile
transExitCode (225)	2	19.3	12-04 14:27	<a href="#">6</a> : TRF_SEGVIO - Segmentation violation
<b>BNL_ATLAS_1</b>	<a href="#">defined</a> :0 <a href="#">assigned</a> :0 <a href="#">waiting</a> :0 <a href="#">activated</a> :1155 <a href="#">running</a> :634 <a href="#">holding</a> :0 <a href="#">transferring</a> :0 <a href="#">finished</a> :487 <a href="#">failed</a> :69 (12.4%)			
jobDispatcherErrorCode (68)	68	292.0	12-04 05:29	<a href="#">100</a> : Lost heartbeat
pilotErrorCode (1)	1	13.2	12-04 12:03	<a href="#">1150</a> : Looping job killed by pilot

# List of all Failed Jobs for Given Error



## Configuration

Dashboards: [Production](#) [DDM](#) [Sites & Grids](#) [Analysis](#) [Physics data](#) [Task definition](#) [Usage & Quotas](#) [TestPilot](#) [Plots](#)

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## Panda monitor

Panda archive job entries **WHERE transExitCode='51' AND CURRENT\_TIMESTAMP() - INTERVAL 12 HO**

[Quick guide, twiki](#)

## Jobs - [search](#)

Recent [running](#),  
[activated](#), [waiting](#),  
[assigned](#), [defined](#),  
[finished](#), [failed](#) jobs  
Select [analysis](#),  
[production](#), [test](#) jobs

Job count: 190  
1 sites: [PROD](#) [SLAC](#)  
1 releases: [Atlas-12.0.31](#)  
1 transformations: [csc\\_simul\\_trf.py](#)  
1 sources: [managed](#)  
1 users: [nevski\\_at\\_cern.ch](#)  
Job states: [failed](#)

## Quick search

Job

Dataset

Task

File

[Click to show 1 production blocks](#)  
[Click to show 1 destination blocks](#)

## Summaries

Blocks:

days

Errors:

days

Nodes:

days

[Daily usage](#)

## Tasks - [search](#)

Generic [Task Req](#)

<a href="#">PandaID</a>	<a href="#">prodDBlock</a>	<a href="#">destinationDBloc</a>
<a href="#">583182</a> <a href="#">csc11.008075.JimmyPhotonJet4.evgen.EVNT.v11000516_tid003512_misal1_csc11.008075.JimmyPhotonJet4.simul.HITS.v12003104_tid00428</a>		
<a href="#">583181</a> <a href="#">csc11.008075.JimmyPhotonJet4.evgen.EVNT.v11000516_tid003512_misal1_csc11.008075.JimmyPhotonJet4.simul.HITS.v12003104_tid00428</a>		
<a href="#">583180</a> <a href="#">csc11.008075.JimmyPhotonJet4.evgen.EVNT.v11000516_tid003512_misal1_csc11.008075.JimmyPhotonJet4.simul.HITS.v12003104_tid00428</a>		
<a href="#">583179</a> <a href="#">csc11.008075.JimmyPhotonJet4.evgen.EVNT.v11000516_tid003512_misal1_csc11.008075.JimmyPhotonJet4.simul.HITS.v12003104_tid00428</a>		
<a href="#">583178</a> <a href="#">csc11.008075.JimmyPhotonJet4.evgen.EVNT.v11000516_tid003512_misal1_csc11.008075.JimmyPhotonJet4.simul.HITS.v12003104_tid00428</a>		
<a href="#">583177</a> <a href="#">csc11.008075.JimmyPhotonJet4.evgen.EVNT.v11000516_tid003512_misal1_csc11.008075.JimmyPhotonJet4.simul.HITS.v12003104_tid00428</a>		
<a href="#">583176</a> <a href="#">csc11.008075.JimmyPhotonJet4.evgen.EVNT.v11000516_tid003512_misal1_csc11.008075.JimmyPhotonJet4.simul.HITS.v12003104_tid00428</a>		

# Full View of One Job



## Configuration

Dashboards: [Production](#) [DDM](#) [Sites & Grids](#) [Analysis](#) [Physics data](#) [Task definition](#) [Usage & Quotas](#) [TestPilot](#) [Plots](#)

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## Panda monitor

### Panda job information

[Quick guide](#), [twiki](#)

Selected jobs: 583182

### Jobs - [search](#)

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[activated](#), [waiting](#),  
[assigned](#), [defined](#),  
[finished](#), [failed](#) jobs  
Select [analysis](#),  
[production](#), [test](#) jobs

### Quick search

Job

Dataset

Task

File

### Summaries

Blocks:

days

Errors:

days

Nodes:

days

[Daily usage](#)

### Tasks - [search](#)

[Generic Task Req](#)

PandaID, Owner	Job	Status	Created	Time to start	Duration	Ende Modifi
<a href="#">583182</a> <a href="#">nevski at cem.ch</a>	<a href="#">misal1_csc11.008075.JimmyPhotonJet4.digit.v12003104_tid004286_03890.job</a> #1	failed	12-04 03:38	3:08:02	0:01:34	12-04 06:
<b>Error details: trans: TRF_DBREL_TARFILE - Problems with the DBRelease tarfile</b> In: <a href="#">csc11.008075.JimmyPhotonJet4.evgen.EVNT.v11000516_tid003512</a> Out: <a href="#">misal1_csc11.008075.JimmyPhotonJet4.simul.HITS.v12003104_tid004286_03890.job</a>						

### Job 583182 details

5 files for job 583182:

Filename	Type	Dataset
<a href="#">csc11.008075.JimmyPhotonJet4.evgen.EVNT.v11000516_tid003512_00039.pool.root.4</a>	input	<a href="#">csc11.008075.JimmyPhotonJet4.evgen.EVNT.v11000516_tid003512_00039.pool.root.4</a> (dispatch block: <a href="#">..._dis583162</a> )
<a href="#">DBRelease-2.8.tar.gz</a>	input	<a href="#">ddo.000001.Atlas.Ideal.DBRelease.v020801</a> (dispatch block: <a href="#">csc11.008075.JimmyPhotonJet4.evgen.EVNT.v11000516_tid003512_00039.pool.root.4</a> )
<a href="#">misal1_csc11.008075.JimmyPhotonJet4.digit.RDO.v12003104_tid004286_03890.pool.root.1</a>	output	<a href="#">misal1_csc11.008075.JimmyPhotonJet4.digit.RDO.v12003104_tid004286_03890.pool.root.1</a> (destination block: <a href="#">..._sub59</a> )
<a href="#">misal1_csc11.008075.JimmyPhotonJet4.simul.HITS.v12003104_tid004286_03890.pool.root.1</a>	output	<a href="#">misal1_csc11.008075.JimmyPhotonJet4.simul.HITS.v12003104_tid004286_03890.pool.root.1</a> (destination block: <a href="#">..._sub59</a> )
<a href="#">misal1_csc11.008075.JimmyPhotonJet4.digit.log.v12003104_tid004286_03890.job.log.tgz.1</a>	log	<a href="#">misal1_csc11.008075.JimmyPhotonJet4.digit.log.v12003104_tid004286_03890.job.log.tgz.1</a> (destination block: <a href="#">..._sub59</a> )

[Show associated task ID=4286](#)

# Log File Extracts Available Online



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[UC](#) [UMICH](#) [UTA](#) [LCG](#)  
[NG](#)

[Logging monitor](#)

[Show associated task ID=4286](#)

[Find and view log file](#)

[Show log file extracts](#)

**Log file extracts:**

```
----- Log from /scratch/Panda_Pilot_11769_1165232783/pilot.stdout -----
homePackage=AtlasProduction/12.0.31.4
trfName=csc_simul_trf.py
inputFiles=['DBRelease-2.8.tar.gz', 'csc11.008075.JimmyPhotonJet4.evgen.EVMT.v11000516_tid003512_00039.pool.root.4']
dispatchDblock=['csc11.008075.JimmyPhotonJet4.evgen.EVMT.v11000516_tid003512_dis583162', 'csc11.008075.JimmyPhotonJet4.evgen.EVMT.v11000516_tid003512_dis583162']
outputFiles=['misall_csc11.008075.JimmyPhotonJet4.simul.HITS.v12003104_tid004286_03890.pool.root.1', 'misall_csc11.008075.JimmyPhotonJet4.digit.RD0.v12003104_tid004286_03890.pool.root.1', 'misall_csc11.008075.JimmyPhotonJet4.digit.RD0.v12003104_tid004286_sub59']
destinationDblock=['misall_csc11.008075.JimmyPhotonJet4.simul.HITS.v12003104_tid004286_sub59', 'misall_csc11.008075.JimmyPhotonJet4.digit.RD0.v12003104_tid004286_sub59']
logFile=misall_csc11.008075.JimmyPhotonJet4.digit.log.v12003104_tid004286_03890.job.log.tgz.1
logFileDblock=misall_csc11.008075.JimmyPhotonJet4.digit.log.v12003104_tid004286_sub59
jobParams= csc11.008075.JimmyPhotonJet4.evgen.EVMT.v11000516_tid003512_00039.pool.root.4 misall_csc11.008075.JimmyPhotonJet4.simul.HITS.v12003104_tid004286_03890.pool.root.1 misall_csc11.008075.JimmyPhotonJet4.digit.RD0.v12003104_tid004286_sub59
The job state is : ['Unknown', 0, 0]
Calling DQ2 get command

!!! Command to run the job is :
source /nfs/slac/g/grid/osg/app/atlas_app/atlas_rel/12.0.31/cmsite/setup.sh --tag=AtlasOffline,12.0.31;export CMTPATH=/nfs/slac/g/grid/osg/app/atlas_app/atlas_rel/12.0.31/AtlasProduction
Starting watchdog process 11769
Child job 11780 exit code is 51
Updating job status to jobDispatcher:
PandaId=583182, result=['failed', 51, 0] and time is 2006-12-04T03:47:42-0800
Send log extracts to panda server

----- No log file /scratch/Panda_Pilot_11769_1165232783/checklog.txt found -----

----- Last 20 lines of grep'ed error messages from pilot_child.stdout -----
INFO: read 110 error categories from file /nfs/slac/g/grid/osg/app/atlas_app/atlas_rel/12.0.31/AtlasProduction/12.0.31.4/InstallArea/share/atlas_error_categories.db
csc_simul INFO JobTransform completed with error code 55130 (exit code 51)
ErrorCode=55130 (TRF_DBREL_TARFILE)
ErrorCategory=TRF_DBREL_TARFILE, 55130, Problems with the DBRelease tarfile (1 times)
Errors=0
ErrorInfo
raise InputFileError( val, 'not found. Argument %s' % (self.name(), 'TRF_INFILE_NOTFOUND' )
----- Last 20 lines of grep'ed athena error messages from pilot_child.stdout -----

----- First event finished in this job -----

----- Last event finished in this job -----
```

[Look for logging monitor records for job 583182](#)

# All Log Files Also Available Online



**Panda monitor** File search on [misal1\\_csc11.008075.JimmyPhotonJet4.digit.log.v12003104\\_tid004286.\\_03890.job.log.tgz.1\\*](#)

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<a href="#">TRIUMFDISK</a>		<a href="#">LAPP</a>	<a href="#">DESY-ZN</a>	<a href="#">MILANO</a>		<a href="#">PICDISK</a>		<a href="#">UKTIER2S</a>	<a href="#">BNLTAPE</a>
<a href="#">TRIUMFTAPE</a>		<a href="#">LPC</a>	<a href="#">FZK</a>	<a href="#">NAPOLI</a>		<a href="#">PICTAPE</a>		<a href="#">EDINBURGH</a>	<a href="#">BNLPANDA</a>
<a href="#">UBC</a>		<a href="#">LPNHE</a>	<a href="#">FZKDISK</a>	<a href="#">ROMA1</a>		<a href="#">UAM</a>		<a href="#">GLASGOW</a>	<a href="#">BU</a>
<a href="#">UVIC</a>		<a href="#">LYON</a>	<a href="#">FZKTAPE</a>					<a href="#">MANC</a>	<a href="#">IU</a>
		<a href="#">LYONDISK</a>	<a href="#">FZU</a>					<a href="#">LANCS</a>	<a href="#">IU_BC</a>
		<a href="#">LYONTAPE</a>	<a href="#">UNI-FREIBURG</a>					<a href="#">LIV</a>	<a href="#">OU</a>
		<a href="#">SACLAY</a>						<a href="#">SHEF</a>	<a href="#">OUHEP</a>
		<a href="#">TOKYO</a>						<a href="#">RALPP</a>	<a href="#">SLAC</a>
								<a href="#">OXE</a>	<a href="#">UC</a>
								<a href="#">CAM</a>	<a href="#">UC_TP</a>
								<a href="#">BHAM</a>	<a href="#">UC_VOB</a>
								<a href="#">ICL</a>	<a href="#">UTA</a>
								<a href="#">LESC</a>	<a href="#">UTA_SWT2</a>
								<a href="#">RHUL</a>	
								<a href="#">BRUN</a>	
								<a href="#">QMUL</a>	
								<a href="#">UCLCC</a>	
								<a href="#">UCLHEP</a>	
								<a href="#">DUR</a>	

No matching files found in SLAC replica catalog

## Matching files in BNL LRC:

[misal1\\_csc11.008075.JimmyPhotonJet4.digit.log.v12003104\\_tid004286.\\_03890.job.log.tgz.1](#)

[View this logfile](#)

# Tarball of Job Execution Directory



## Configuration

Dashboards: [Production](#) [DDM](#) [Sites & Grids](#) [Analysis](#) [Physics data](#) [Task definition](#) [Usage & Quotas](#) [TestPilot](#) [Plots](#)

[Update](#)

## Panda monitor

**misal1\_csc11.008075.JimmyPhotonJet4.digit.log.v12003104\_tid004286.\_03890.job.log.tgz.1**

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days

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days

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days

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Tarball preparation command was:

```
source /afs/usatlas.bnl.gov/lcg/lcg-2.7.0/etc/profile.d/grid_env.sh; if test ! -d "/data/sn/logs/misal1_csc11.008075.JimmyPhotonJet4.digit.log.v12003104_tid004286._03890.job.log.tgz
```

Tarball preparation returned:

18807 bytes in 0 seconds

## [View tarball files](#)

## Tarball content:

```
total 116
drwxr-xr-x  2 sm  usatlas  4096 Dec  4 06:47 .
drwxr-xr-x  3 sm  usatlas  4096 Dec  4 16:13 ..
-rwxr-xr-x  1 sm  usatlas   233 Dec  4 06:46 dq2get.out
-rwxr-xr-x  1 sm  usatlas 21730 Dec  4 06:45 DQ2ProdClient.py
-rwxr-xr-x  1 sm  usatlas 14797 Dec  4 06:46 DQ2ProdClient.pyc
-rwxr-xr-x  1 sm  usatlas  3659 Dec  4 06:45 httpsByProxy.py
-rwxr-xr-x  1 sm  usatlas  3271 Dec  4 06:46 httpsByProxy.pyc
-rwxr-xr-x  1 sm  usatlas  2674 Dec  4 06:46 jobInfo_csc_simul.xml
-rwxr-xr-x  1 sm  usatlas  2674 Dec  4 06:46 jobInfo.xml
-rwxr-xr-x  1 sm  usatlas  2843 Dec  4 06:46 jobReport_csc_simul.pickle
-rwxr-xr-x  1 sm  usatlas  2324 Dec  4 06:46 jobReport_csc_simul.txt
-rwxr-xr-x  1 sm  usatlas  2843 Dec  4 06:46 jobReport.pickle
-rwxr-xr-x  1 sm  usatlas  2324 Dec  4 06:46 jobReport.txt
-rwxr-xr-x  1 sm  usatlas   445 Dec  4 06:46 last.csc_simul
-rwxr-xr-x  1 sm  usatlas   373 Dec  4 06:47 logfile.xml
-rwxr-xr-x  1 sm  usatlas    0 Dec  4 06:46 pilot_child.stderr
-rwxr-xr-x  1 sm  usatlas  4399 Dec  4 06:46 pilot_child.stdout
-rwxr-xr-x  1 sm  usatlas    0 Dec  4 06:46 pilot.stderr
-rwxr-xr-x  1 sm  usatlas  2716 Dec  4 06:47 pilot.stdout
-rwxr-xr-x  1 sm  usatlas   389 Dec  4 06:46 PoolFileCatalog.xml
-rwxr-xr-x  1 sm  usatlas  1528 Dec  4 06:45 storage_access_info.py
-rwxr-xr-x  1 sm  usatlas  1320 Dec  4 06:46 storage_access_info.pyc
```



# Few Clicks Later



## Index of

/logs/misal1\_csc11.008075.JimmyPhotonJet4.digit.log.v12003104\_tid004286.\_03890,

- ◆ [Parent Directory](#)
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# jobInfo.xml



```
- <jtinfo producer="SimuJobTransforms-00-07-06" producer="csc_simul">
- <Command>
  /nfs/slac/g/grid/osg/app/atlas_app/atlas_rel/12.0.31/AtlasProduction/12.0.31.4/InstallArea/share/bin/csc_simul_trf.py
  csc11.008075.JimmyPhotonJet4.evgen.EVNT.v11000516_tid003512._00039.pool.root.4
  misall_csc11.008075.JimmyPhotonJet4.simul.HITS.v12003104_tid004286._03890.pool.root.1
  misall_csc11.008075.JimmyPhotonJet4.digit.RDO.v12003104_tid004286._03890.pool.root.1 50 4450 3890 ATLAS-CSC-01-02-00 NONE DBRelease-2.8.tar.gz
</Command>
<ExitCode>51</ExitCode>
<ErrorCode>65130</ErrorCode>
<ErrorAcronym>TRF_DBREL_TARFILE</ErrorAcronym>
<ErrorDescription>Problems with the DBRelease tarfile</ErrorDescription>
- <ErrorMessage>
  Input file DBRelease-2.8.tar.gz not found. Argument DBRelease
</ErrorMessage>
<errorcategory acronym="TRF_DBREL_TARFILE" count="1" code="65130">Problems with the DBRelease tarfile</errorcategory>
<warning>0</warning>
<error>0</error>
<fatal>1</fatal>
- <ErrorInfo count="1">
  <severity>FATAL</severity>
  <who>JobTransform.csc_simul</who>
- <message>
  Input file DBRelease-2.8.tar.gz not found. Argument DBRelease
</message>
<producer>csc_simul</producer>
- <backtrace>
  File "/nfs/slac/g/grid/osg/app/atlas_app/atlas_rel/12.0.31/AtlasProduction/12.0.31.4/InstallArea/python/PyJobTransformsCore/trf.py", line 1305, in execute
  self.jobReport.addReport(self.runJob()) File "/nfs/slac/g/grid/osg/app/atlas_app/atlas_rel/12.0.31/AtlasProduction/12.0.31.4/InstallArea/share/bin/csc_simul_trf.py",
  line 34, in runJob self.getArgument('DBRelease').install() File
  "/nfs/slac/g/grid/osg/app/atlas_app/atlas_rel/12.0.31/AtlasProduction/12.0.31.4/InstallArea/python/PyJobTransformsCore/full_trfarg.py", line 494, in install
  self.untarAndSetup() File "/nfs/slac/g/grid/osg/app/atlas_app/atlas_rel/12.0.31/AtlasProduction/12.0.31.4/InstallArea/python/PyJobTransformsCore/full_trfarg.py",
  line 479, in untarAndSetup InputTarFileAndSetupArg.untarAndSetup(self) File
  "/nfs/slac/g/grid/osg/app/atlas_app/atlas_rel/12.0.31/AtlasProduction/12.0.31.4/InstallArea/python/PyJobTransformsCore/basic_trfarg.py" line 1005, in
```

# Example of Site Monitoring - Production



Click here  
To get this page

Good sign: All CPU's running, some pilots coming through the system as jobs finish

Configuration Dashboards: Production Analysis DDM Physics data Task definition

Panda monitor Panda Production Operations Dashboard

Quick guide, twiki Panda shift guide and calendar

Servers: Panda:OK Logger:OK DQ2:OK  
Tasks assigned to OSG

Jobs updated <12 hrs ago: Running:489 Activated:101  
Jobs updated >12 hrs ago: Activated:335

Space available at sites:

Site	GB	As of
<a href="#">BNL ATLAS 1</a>	999999	03-05 06:38
<a href="#">BNL ATLAS 2</a>	999999	03-05 10:32
<a href="#">BU ATLAS_Tier2</a>	1085	03-05 10:44
<a href="#">OUHEP_OSG</a>	1659	03-05 08:21
<a href="#">UC ATLAS_MWT2</a>	635	03-04 04:41
<a href="#">UTA-DPCC</a>	1076	03-05 10:45

Recent site activity history

Pilot requests for jobs, last 3 hours  
Red indicates <10/hr (prod), <30/hr (analysis)

Site	Prod	Analysis
BNL_ATLAS_1	0	0
BNL_ATLAS_2	1266	156
BU_ATLAS_Tier2	27	3
OUHEP_OSG	0	3
OU_OSCER_OSG	0	0
UC_ATLAS_MWT2	0	0
UTA-DPCC	10	4

Bad sign: No pilots & No jobs

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

Site	Nodes	Total jobs	Latest	defined	assigned	waiting	activated	running	finished	failed	%fail	total/trans/other
All	245	1319	03-05 10:46	0	91	250	93	470	390	25	6.0%	3.4% / 2.7%
<a href="#">BNL ATLAS 1</a>	10	26	03-05 10:46	0	8	0	9	9	0	0		
<a href="#">BNL ATLAS 2</a>	103	526	03-05 10:46	0	83	0	71	156	211	5	2.3%	1.9% / 0.5%
<a href="#">BU ATLAS_Tier2</a>	28	189	03-05 10:46	0	0	0	0	109	80	0	0.0%	0.0% / 0.0%
<a href="#">NULL</a>	1	250	03-05 05:15	0	0	250	0	0	0	0		
<a href="#">OUHEP_OSG</a>	13	41	03-05 10:40	0	0	0	13	11	7	10	58.8%	41.2% / 17.6%
<a href="#">OU_OSCER_OSG</a>	0	0		0	0	0	0	0	0	0		
<a href="#">UC ATLAS_MWT2</a>	44	84	03-05 10:46	0	0	0	0	84	0	0		
<a href="#">UTA-DPCC</a>	54	203	03-05 10:46	0	0	0	0	101	92	10	9.8%	2.9% / 6.9%

# Example of Site Monitoring - Subscriptions



Panda Production Operations Dashboard - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://gridui01.usatlas.bnl.gov:28243/?dash=prod

NY Times My Yahoo! BBC heppc31 New ATLAS Panda monitor front ...

Summary of Panda subscriptions, last 12 hours (details here):

	Dispatch blocks				Destination blocks					Other					
	Total	Defined	Done	Latest	Total	Defined	Running	Closing	Done	Latest	Total	Defined	Running	Done	Late
<a href="#">BNL</a>	49	15	34	05-09 11:41	259	224	0	0	35	05-09 10:32	4	4	0	0	
<a href="#">BU</a>	12	1	11	05-09 09:02	0	0	0	0	0		0	0	0	0	
<a href="#">IU</a>	7	7	0		0	0	0	0	0		0	0	0	0	
<a href="#">OU</a>	25	4	21	05-09 11:24	0	0	0	0	0		0	0	0	0	
<a href="#">UTA</a>	12	0	12	05-09 11:22	0	0	0	0	0		0	0	0	0	

Bad sign: No subscriptions in past 12 hours

Good sign: All Subscriptions done

Warning sign: Output files are piling up at Tier 2's

# Example of Site Monitoring – Worker Nodes



## Worker nodes active in the last 168 hours (7.0 days)

### Summary

Site	Nodes	Total jobs	Latest	defined	assigned	waiting	activated	running	finished	failed	%fail total/trans/other
All	257	10858	03-07 16:39	0	148	256	835	238	7787	1594	17.0% / 2.0% / 15.0%
<a href="#">BNL_ATLAS_1</a>	86	792	03-07 16:15	0	0	0	160	0	587	45	7.1% / 3.3% / 3.8%
<a href="#">BNL_ATLAS_2</a>	103	4906	03-07 16:39	0	50	0	271	138	4014	433	9.7% / 1.9% / 7.8%
<a href="#">BU_ATLAS_Tier2</a>	28	1490	03-07 16:15	0	0	0	0	0	1264	226	15.2% / 0.8% / 14.4%
<a href="#">NULL</a>	1	256	03-07 14:13	0	0	256	0	0	0	0	
<a href="#">OUHEP_OSG</a>	15	221	03-07 16:15	0	0	0	136	0	48	37	43.5% / 20.0% / 23.5%
<a href="#">OU_OSCER_OSG</a>	0	0		0	0	0	0	0	0	0	
<a href="#">UC_ATLAS_MWT2</a>	49	755	03-07 16:29	0	98	0	0	0	162	495	75.3% / 0.8% / 74.6%
<a href="#">UTA-DPCC</a>	61	2438	03-07 16:39	0	0	0	268	100	1712	358	17.3% / 2.0% / 15.3%

### Details for active sites

WN	Latest	defined	assigned	waiting	activated	running	finished	failed
<b>BNL_ATLAS_1: 86 nodes, 792 jobs</b>	<b>2006-03-07 16:15:51</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>160</b>	<b>0</b>	<b>587</b>	<b>45</b>
acas0302.usatlas.bnl.gov	2006-03-03 01:27:19						2	
acas0303.usatlas.bnl.gov	2006-03-03 16:18:17						4	
acas0304.usatlas.bnl.gov	2006-03-03 01:34:57						2	
acas0305.usatlas.bnl.gov	2006-03-03 15:08:32						6	
acas0306.usatlas.bnl.gov	2006-03-03 01:39:55						2	
acas0307.usatlas.bnl.gov	2006-03-03 16:17:24						3	
acas0308.usatlas.bnl.gov	2006-03-03 20:42:58						4	
acas0310.usatlas.bnl.gov	2006-03-03 21:52:04						10	
acas0311.usatlas.bnl.gov	2006-03-03 18:44:41						7	

# Status of Current Tasks



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NYTimes heppc1 My Yahoo! BBC Panda New Info At work At home

**Summary of Panda subscriptions, last 12 hours (details here):**

	DQ2	Files	Dispatch blocks			Destination blocks			Other					
			Total	Defined	Done Latest	Total	Defined	Running Closing	Done Latest	Total	Defined	Running Done Latest		
<a href="#">BNLPANDA</a>	<a href="#">DQ2</a>	<a href="#">Files</a>	0	0	0	2	2	0	0	0	2	2	0	0
<a href="#">UTA</a>	<a href="#">DQ2</a>	<a href="#">Files</a>	1	1	0	0	0	0	0	0	0	0	0	0

**Production blocks active in last 12 hours (details here)**

<a href="#">ideal0_csc11.005011.J2_pythia_jetjet.simul.HITS.v12000604_tid010480</a>	5 jobs	Atlas-12.0.6 From 2007-06-15 To 2007-06-17
<a href="#">transferring:5</a>		
<a href="#">ideal0_csc11.005012.J3_pythia_jetjet.simul.HITS.v12000604_tid010481</a>	3 jobs	Atlas-12.0.6 From 2007-06-17 To 2007-06-18
<a href="#">transferring:2 finished:1</a>		
<a href="#">ideal0_csc11.005015.J6_pythia_jetjet.simul.HITS.v12000604_tid010484</a>	10 jobs	Atlas-12.0.6 From 2007-06-14 To 2007-06-17
<a href="#">transferring:4 finished:5 failed:1</a>		
<a href="#">misal1_csc11.005354.A10_150_Atautau_filter.simul.HITS.v12003103_tid010534</a>	7 jobs	Atlas-12.0.31 From 2007-06-16 To 2007-06-18
<a href="#">transferring:2 finished:5</a>		
<a href="#">misal1_mc12.005204.TTbar_FullHad_McAtNlo_Jimmy.simul.HITS.v12000604_tid010261</a>	30 jobs	Atlas-12.0.6 From 2007-06-15 To 2007-06-19
<a href="#">holding:1 transferring:8 finished:14 failed:7</a>		
<a href="#">misal1_mc12.005801.JF7_pythia_loosejet_filter.simul.HITS.v12000604_tid009309</a>	8 jobs	Atlas-12.0.6 From 2007-06-17 To 2007-06-17

Done

# Grid Dashboard



**Sites & Grids Dashboard - Mozilla Firefox**

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http://gridui02.usatlas.bnl.gov:25880/server/pandamon/query?dash=site

NYTimes heppc1 My Yahoo! BBC Panda New Info At work At home

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**Panda monitor** **Sites & Grids Dashboard**

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# Site Information - BNL



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**BNL**

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BNL DQ2 service: <http://lrc.usatlas.bnl.gov:8000/dq2/> on the **atlas** DQ2 instance  
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# Site Information – Tier 2



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**Panda monitor** Site information for OU

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**OU sites**

**OU**

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OU DQ2 service: <http://tier2-02.occhep.ou.edu:8000/dq2/> on the **atlas** DQ2 instance  
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