

NuComp News

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Outline

- Disk report
- GPCF Batch update
- Prep for DOE Scientific Computing Review
- Maintenance day tomorrow

Central Disk (BlueArc)

	2009	2010	2011 (replace)	2012 request
MiniBooNE	✓ 80	30	25(+13)	0
MINOS	✓ 150	✓ 30	✓ 30(+60)	30
MINERvA	✓ 10	✓ 20	✓ 40	30
Argoneut	✓ 20	0	0	0
NOvA	✓ 4	✓ 26	✓ 30	100
MicroBooNE	✓ 2	0	✓ 5	30
LBNE (all)	0	✓ 2	✓ 20	0
Mu2e	0	✓ 2	✓ 2	0
g minus 2	0	0	? 20	0

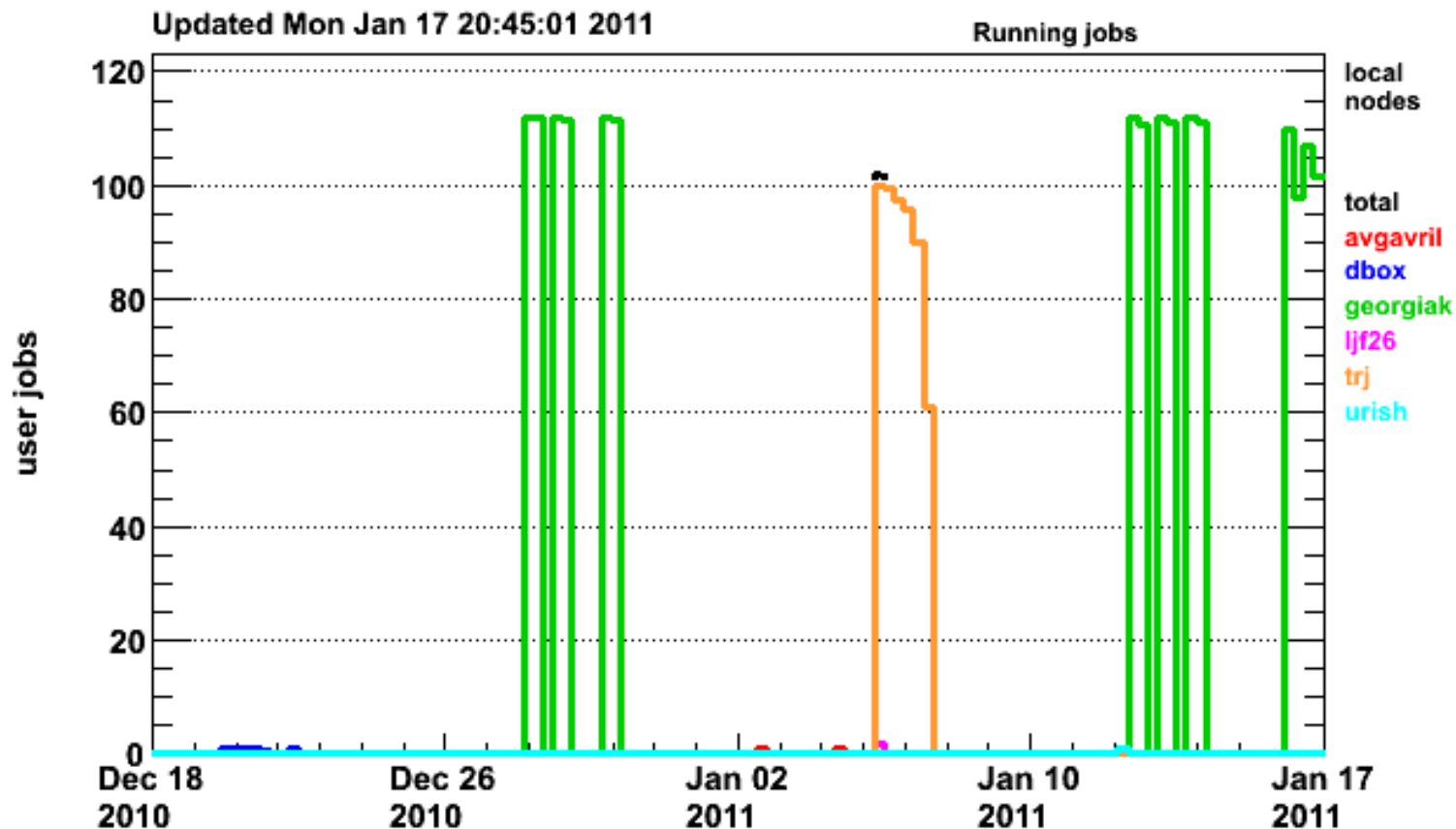
✓ satisfied
✓ in hand

GPCF Status

	Int. Login status	Final Local Batch gpwnNNN	Comments
ArgoNeuT	1 VM ✓	16 priority slots	
LBNE	2 VMs ✓	48 priority slots	Gpcf026 to gpwn pool
MicroBooNE	1 VM ✓	16 priority slots	
MINERvA	If01-if04 2 VM's ✓	As needed	If05 to be returned soon.
MiniBooNE	(not assigned)	0	
MINOS	Minos50-53 ✓ 1VM (for testing)	0	Minos54 to be returned soon.
Mu2e	1 VM ✓ + 1 VM (for testing)	16 priority slots	
NOvA	5 VM's ✓ + 2 x gpcf nodes temporarily	48 priority slots	Gpcf028-32 to gpwn pool

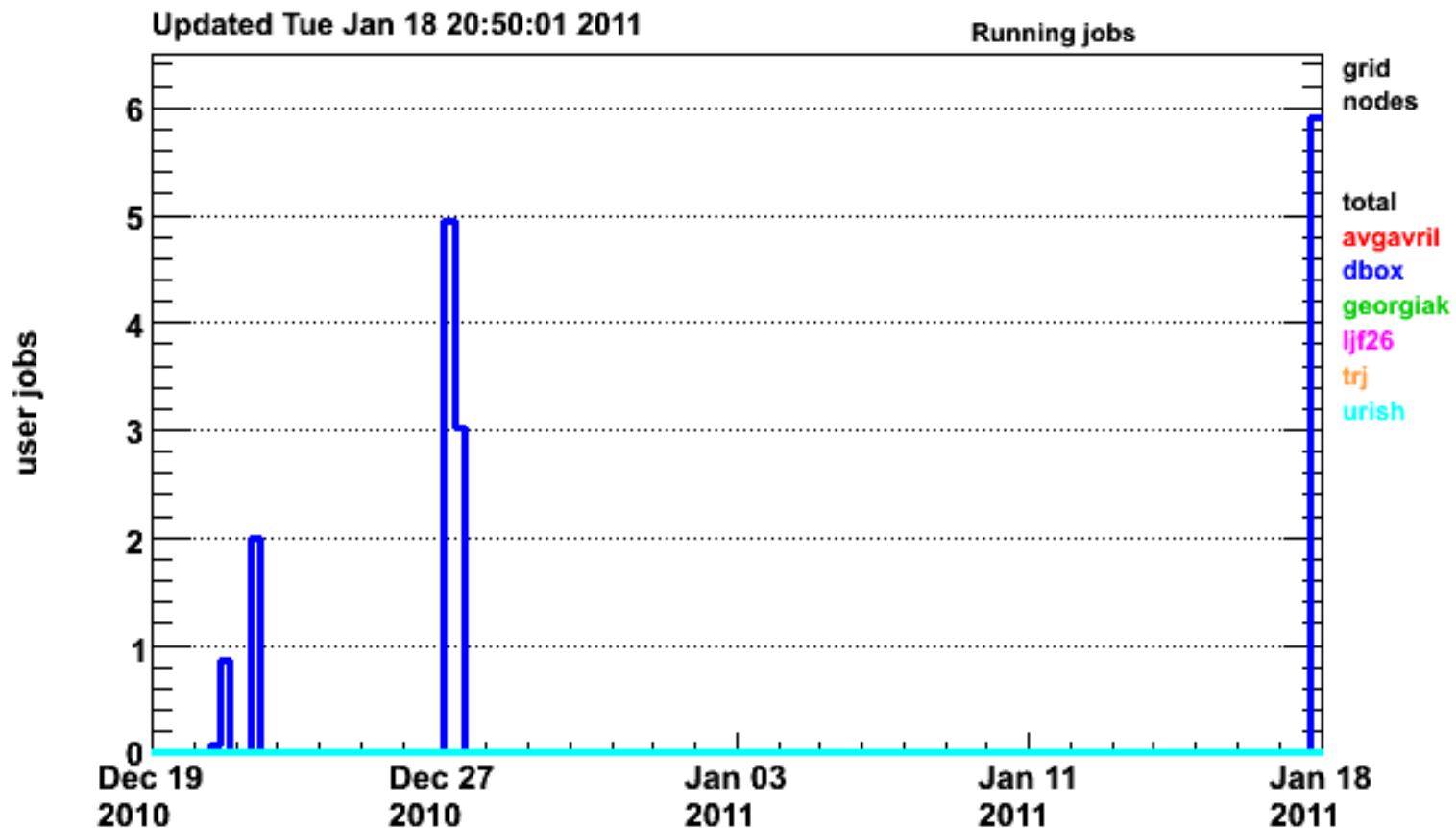
Batch Jobs on GPCF Cluster (month)

- http://gpsn01.fnal.gov/condor_monitor/index_month_local.html



Batch Jobs on GRID (month)

- http://gpsn01.fnal.gov/condor_monitor/index_month_grid.html



New Fermi GRID resources

- New FY10 worker nodes have been well "burned in"
- increasing the job slot allocations on the GP Grid cluster.
- One possibility would be to "blindly" raise the job slot allocations as follows:

Old	New
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600	-> 1,000
300	-> 500
25	-> 50

Review of IF resource need projections

CENTRAL DISK

	2010	2011	2012	2013	2014
MiniBooNE	30	30	0	0	0
MINOS	30	30	30	30	30
SciBooNE	0	0	0	0	0
MINERvA	20	40	30	30	30
Argoneut	0	0	0	0	0
NOvA	26	30	100	200	200
MicroBooNE	0	5	23	0	0
LBNE	2	18	10	10	10
Mu2e	2	0	0	2	2
g minus 2 (EOL Replace)	8	0	0	0	
	30	30	30	30	30
Total	148	183	223	302	302

Review of IF resource need projections

GRID SLOTS

	2010	2011	2012	2013	2014
MiniBooNE	0	0	0	0	0
MINOS	0	0	0	0	0
SciBooNE	0	0	0	0	0
MINERvA	75	200	0	0	0
Argoneut	5	0	0	0	0
NOvA	95	200	300	100	100
MicroBooNE	0	30	30	0	0
LBNE	50	100	50	50	50
Mu2e	2	2	16	50	50
g minus 2	0	0	0	0	0
Replacements	0	340	0	0	0
Total	227	872	396	200	200

Maintenance Day Tomorrow (1/2)

- IF/GPCF/GPVM/MB
 - The usual kernel updates and reboots.
 - Remount any altered BlueArc areas, if they were not available before a node was rebooted.
- FermiGrid schedule:
 - 1) adjust automount maps to reflect the changes in MINOS partitions on the bluearc. (work)
 - 2) Kernel updates on all GP Grid head nodes and submission nodes (work)
 - 3) removal of nfs-mounted auto.fnal mount in GP Grid yp server (work) and replacement with upsudbootstrap rpm on all workers (FEF)
 - 4) upgrade/reinstall of all remaining SLF4 GP Grid worker nodes to SLF5 (FEF).

Maintenance Day Tomorrow (2/2)

- Central Storage (BlueArc) work
 - Perform Final Data Replication / Cutover. Tentatively scheduling for 1/20/2011 during normal Minos downtime. During the downtime, The following areas WILL NOT BE ACCESSIBLE:
 - minos-nas-0:/minos/data
 - minos-nas-0:/minos/scratch
 - blue2:/minos/data
 - After final replication has finished, give Art Kreymer access to the new blue3:/minos/data area so he can move directories/symlinks around as needed. After Art Kreymer gives us confirmation that he is done, make the following new areas available to the minos collaboration:
 - blue3:/minos/app
 - blue3:/minos/data
 - FEF/local-sysadmins must re-mount these new areas
 - *** These OLD AREAS WILL NO LONGER BE ACCESSIBLE ***
 - minos-nas-0:/minos/data
 - minos-nas-0:/minos/scratch
 - blue2:/minos/dat
 - POST CHANGE: RECOVERY OF OLD AREAS
 - Delete the old minos areas 2 weeks after cutover (02/03/2011)
 - Implement snapshots (3 days queue) on Minos filesystems.

Next NuComp

- February 10 or 17, 2011 (if we have topics to discuss)

finish