

NuComp News

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May 16, 2012

Outline

- » Maintenance day stuff
- IF Computing Resource Summary
- GP GRID usage

Maintenance Day: Tomorrow 1 / 2

Thursday 5 / 17

- ▶ AFS(5–8 AM): upgrade to the AFS servers at Fermilab.
 - ▶ This upgrade is necessary in order to support kcron with AFS and compound principals for clients running SLF6 or higher. During this downtime, access to AFS space will be intermittent.
 - ▶ All GPCF/IF/MB/MINOS user home areas will be affected. Some client nodes may require rebooting after the work is completed.
- ▶ Enstore (8AM to 1 PM): There will be a scheduled maintenance of the GCC Stand Alone SL8500.
 - ▶ Enstore will still work and jobs will queue that are going to the stand alone library.
- ▶ GPCF scratch (9AM – 1 PM): GPCF interactive login VM's have NFS mounted scratch. The server for this is being physically relocated from GCC to FCC between 9AM and 1 PM.

Maintenance Day: Tomorrow 2/2

Thursday 5/17

- ▶ /nova/data migration (7AM – 10AM): Completing the migration of the blue3:/nova/data BlueArc NFS volume to a new array.
 - ▶ During this time the /nova/data area will be unavailable. There is a chance some nova nodes may need to be rebooted if they do not get the new mount point subsequent to the work.
 - ▶ This will allow the nova data area to expand beyond the current 73TB limit.
- ▶ MB/IF nodes rebooting for new kernel (8:30–10AM):
mbdata01,03, fmb02–09, IF01–05
- ▶ Fermilab Web (4–9AM): Move the Fermilab central web servers to a new load-balancer, which will increase server reliability.

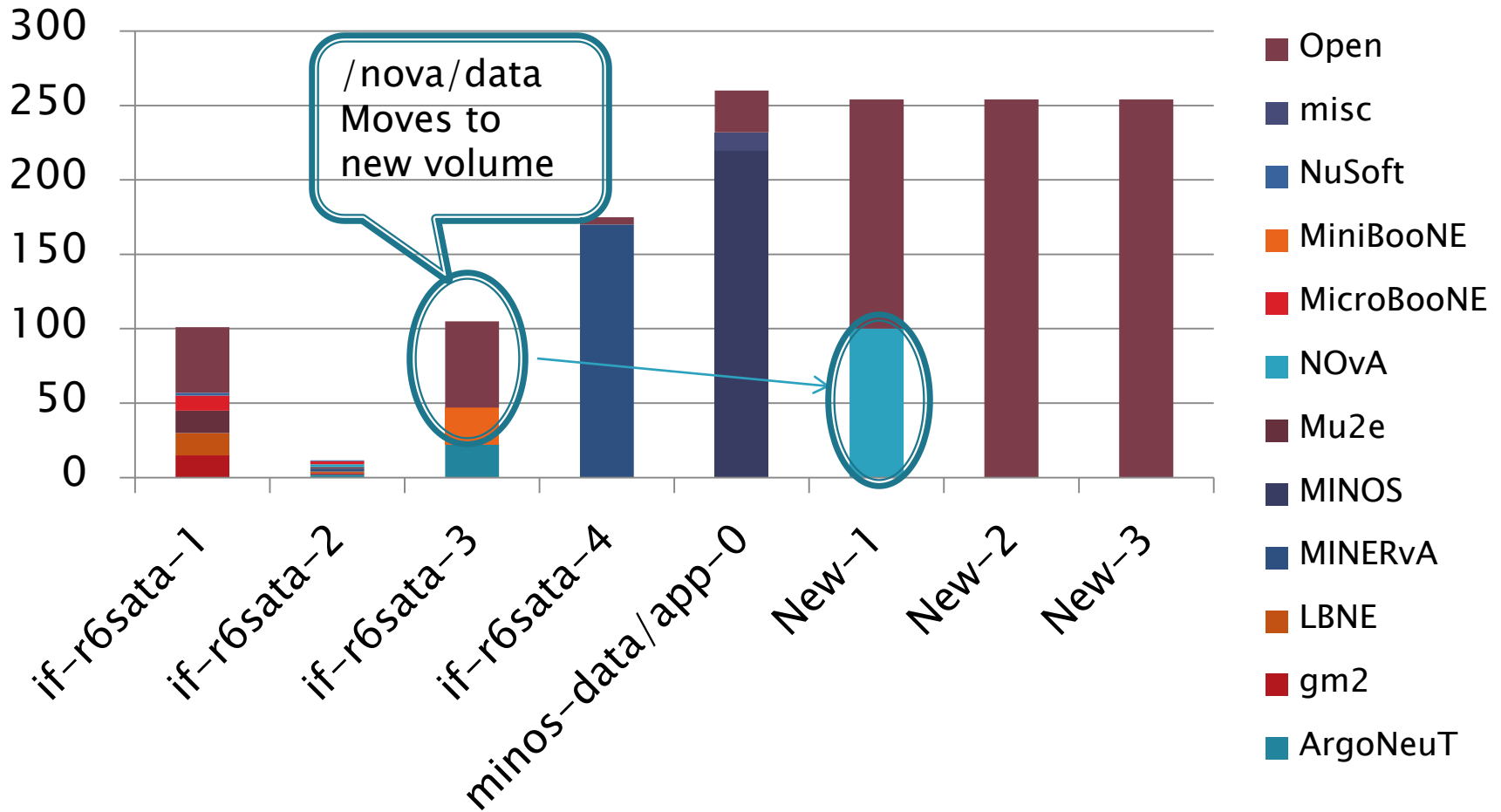
IFront Computing Resource Summary

- » Central Storage
 - GPCF
 - GP Grid Cluster usage

Blue Arc Disk stats

- ▶ <http://nusoft.fnal.gov/ifmon/bluearc/>

Experiment Assignment to Disk Pools



Includes *app* + *data* areas

GPCF Status

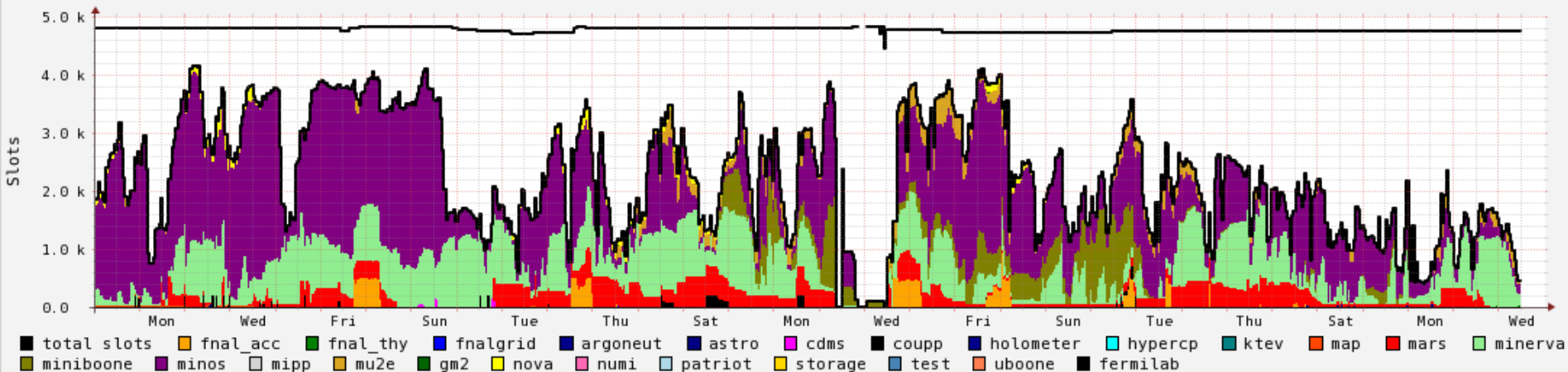
	Int. Login status	Local Batch
ArgoNeuT	1 VM	Jobs submitted through gpsn01 Soon 5 worker nodes (32 core): 160 x 4GB slots
gm2	2 VM	
LBNE	2 VMs	
MicroBooNE	2 VM	
MINERvA	5 VM 2 IF nodes for I/O	
MiniBooNE	(not assigned)	
MINOS	Minos50-54 2 VM	
Mu2e	2 VM	
NOvA	5 VM 2 gpcf nodes for I/O	

GPVM Ganglia 1minute Load Avg Stats for the last 30 days

- ▶ <http://nusoft.fnal.gov/ifmon/gpcf/table.html>

GP Grid Cluster Use Last Month

fnpc11x2 - fermilab V0 Usage by group - Last Month



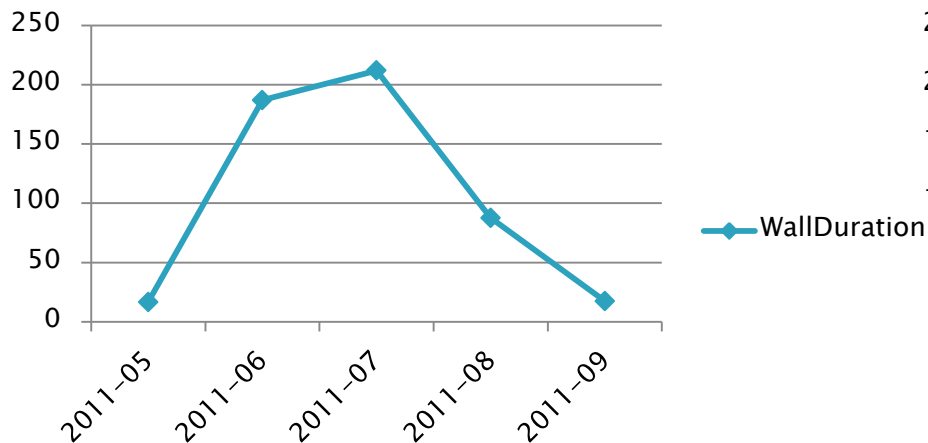
ROOT/TOOL / TDR/LETIMER

	Maximum	Average	Minimum	LastVal
total slots	4834	4766.45	4443	4738
fermilab	4161	2253.71	0	461
fnal_acc	938	36.79	0	0
fnal_thy	19	0.10	0	18
fnalgrid	10	0.25	0	0
argoneut	58	1.03	0	0
astro	0	0.00	0	0
cdms	158	0.95	0	0
coupp	205	9.44	0	0
holometer	0	0.00	0	0
hypercp	0	0.00	0	0
ktev	0	0.00	0	0
map	25	2.50	0	0
mars	529	186.91	0	2
minerva	1318	593.94	0	216
miniboone	1612	134.95	0	0
minos	3222	1173.55	0	171
mipp	0	0.00	0	0
mu2e	516	82.86	0	48
gm2	10	0.80	0	0
nova	381	29.64	0	6
numi	0	0.00	0	0
patriot	0	0.00	0	0
storage	0	0.00	0	0
test	0	0.00	0	0
uboone	0	0.00	0	0

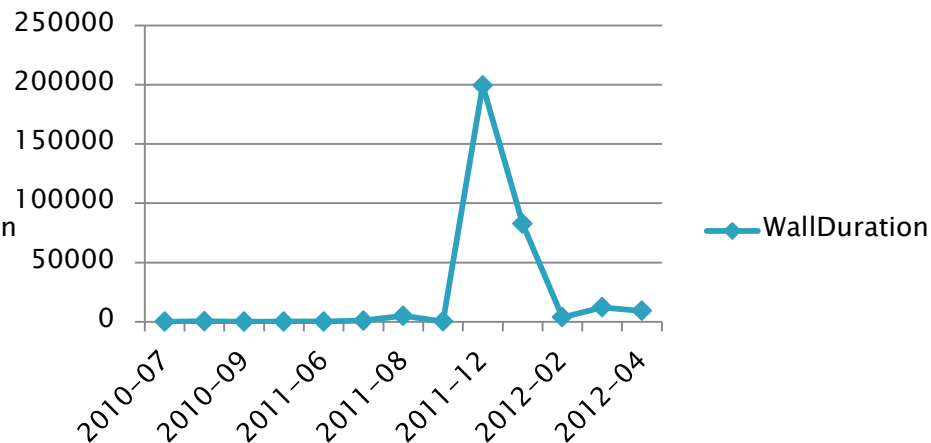
Data for fnpc11x2 between 15-Apr-2012 and 16-May-2012
 Plot generated at 16-May-2012 10:26:48 on fermigrid0.fnal.gov

GP Grid usage 1 / 2

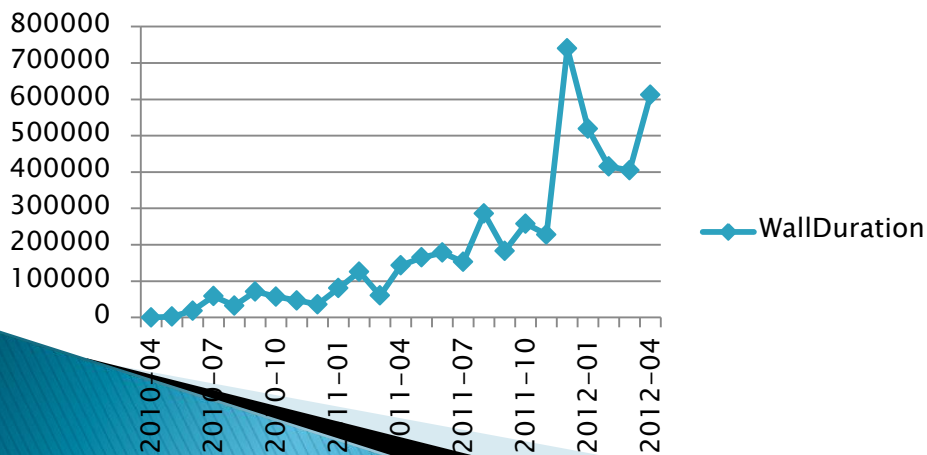
ArgoNeuT:WallDuration



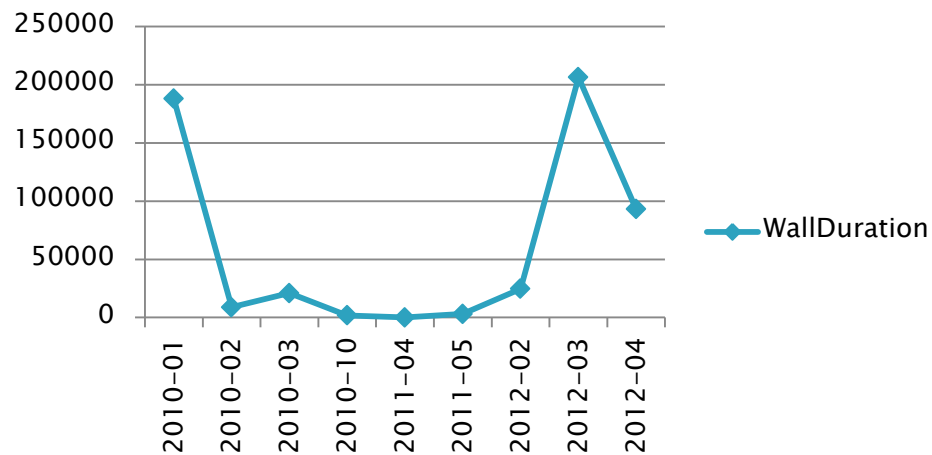
LBNE:WallDuration



MINERvA:WallDuration

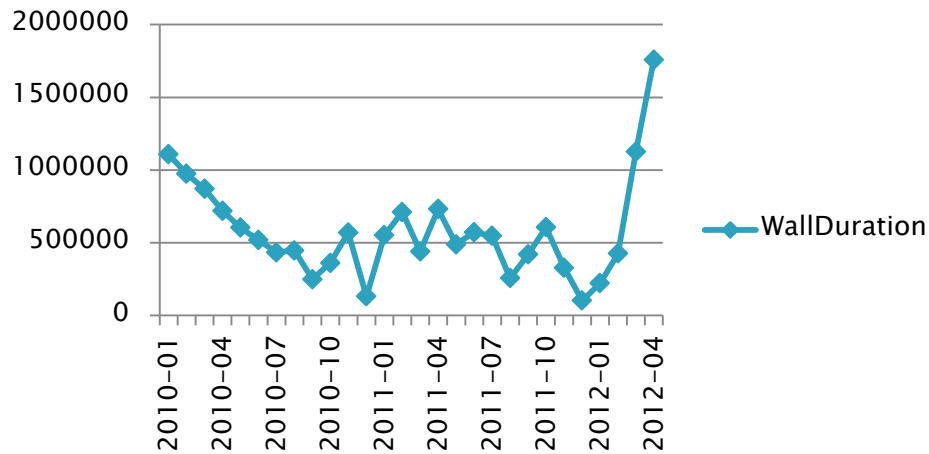


MiniBooNE:WallDuration

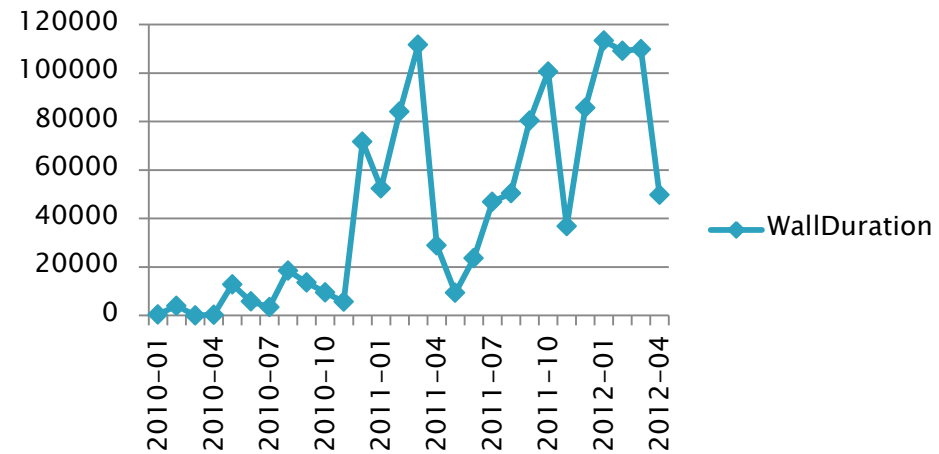


GP Grid usage 2/2

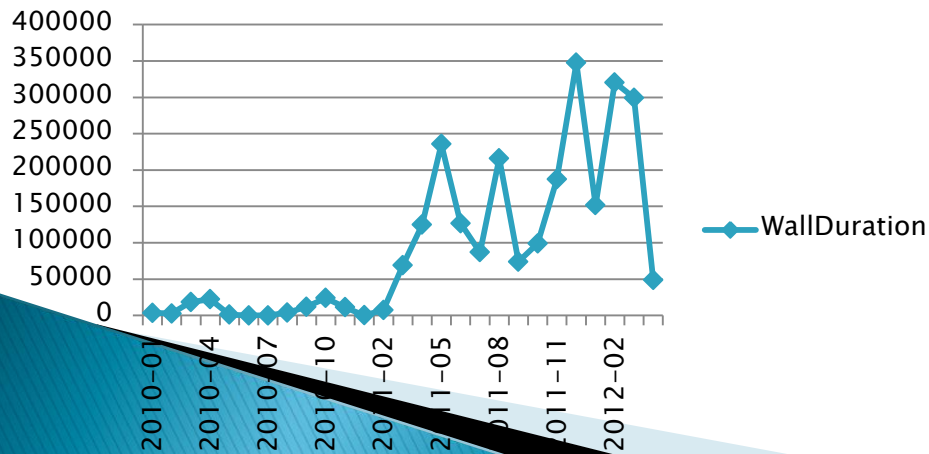
MINOS:WallDuration



mu2e:WallDuration



NOvA:WallDuration



finish