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SCD Computing Summary

October 31st, 2016 through November 7th, 2016

Scientific Computing Metrics

10/17 10/18 10/19 10/20 10/21 10/22 10/23 10/24 10/25 10/26 10/27 10/28 10/29 10/30 10/31 11/1 11/2 11/3 11/4 11/5 11/6

Service Area	Service Offering	MO	TU	WE	TH	FR	SA	SU	MO	TU	WE	TH	FR	SA	SU	MO	TU	WE	TH	FR	SA	SU
Distributed Computing	Batch Job Management (jobsub, condor_submit)	None																				
	User Jobs Monitoring (fifemon)	None																				
High Performance Computing	Wilson Facility Parallel and Tightly Coupled Batch Computing	None																				
High Throughput Computing	Batch Job Operations - CMS	None																				
	Data and Application Caching Operations	None																				
	Distributed Resource Provisioning Operations - CMS	None																				
Scientific Collaboration Tools	Electronic Logbook	None																				
	Redmine	None																				
Scientific Data Management	FTS (File Transfer Service)	None																				
	SAM (Sequential Access via Metadata)	None																				
Scientific Data Storage and Access	Active Archive Facility	None																				
	dCache Disk Cache Storage	None																				
	Enstore Tape Storage	None																				
Scientific Database Applications	Conditions Database	None																				
	Hardware Database	None																				
	IFBeam Conditions Database (IFBeamDB)	None																				
Scientific Linux Systems Engineering	Control Room System Management	None																				
	Experiment Online System Management	None																				
Scientific Production Processing	POMS	None																				
Scientific Software Infrastructure	SciSoft	None																				

Week of 10/31 - 11/6

No outages; rolling Linux kernel updates to address vulnerability

Announcements

Continued rolling Linux kernel updates

Impact

None	Service met SLA
Localized	Service is down for a few localized users
Moderate	Service is down for a moderate number of users
Significant	Service is down for large number of users /causes disruption to lab ops
Extensive	Service is down or causes serious disruption to lab operations
External	Service is down due to external service provider
Scheduled	Service is down due to scheduled outage

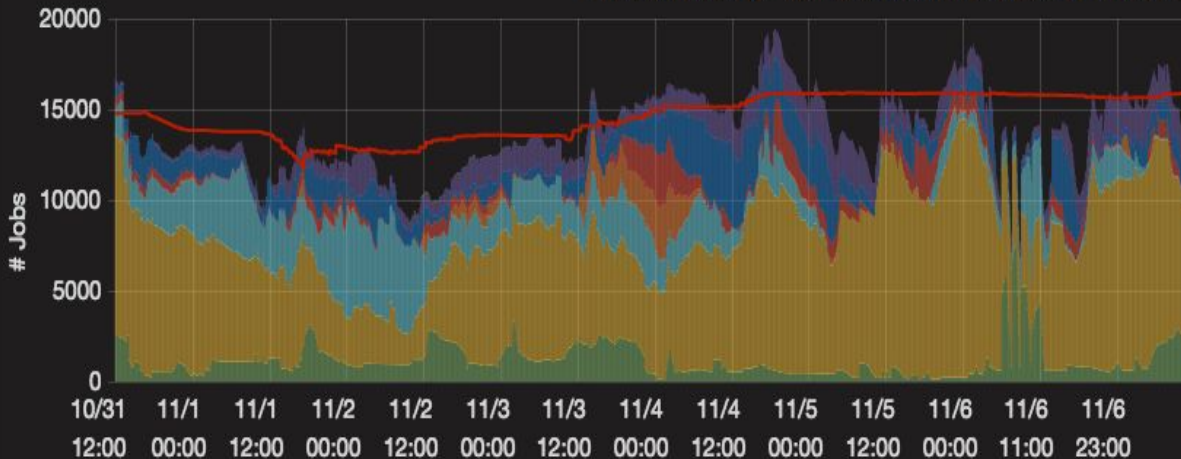
Average Number of Jobs Running Concurrently

13901

Total Jobs Run

736669

Running Jobs by Experiment (includes Onsite, OSG & Cloud)



Percent Jobs Run Onsite

80.2%

Percent Jobs Run on HEP Cloud

N/A

Percent Jobs Run on OSG

19.8%

<https://fifemon.fnal.gov/monitor/dashboard/db/scd-summary-fife>

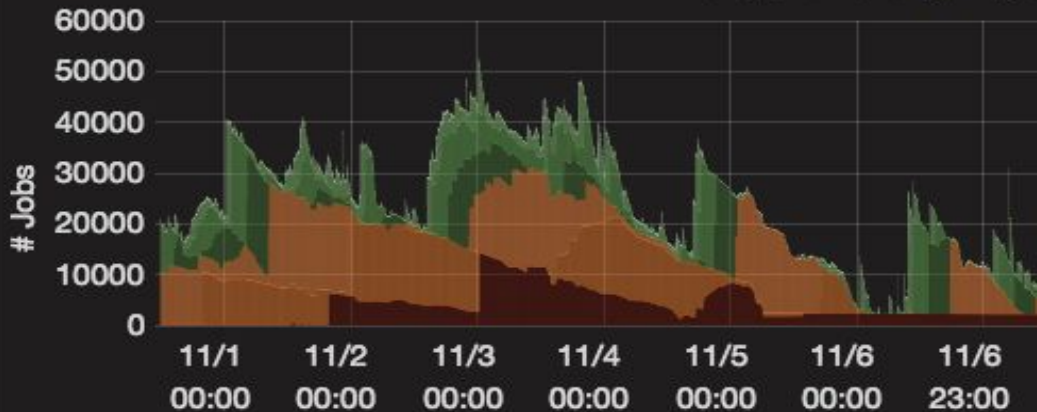
Average Number of Jobs Waiting in Queue

24819

Average Time Spent Waiting in Queue

6.88 hour

Time Spent Waiting in Queue

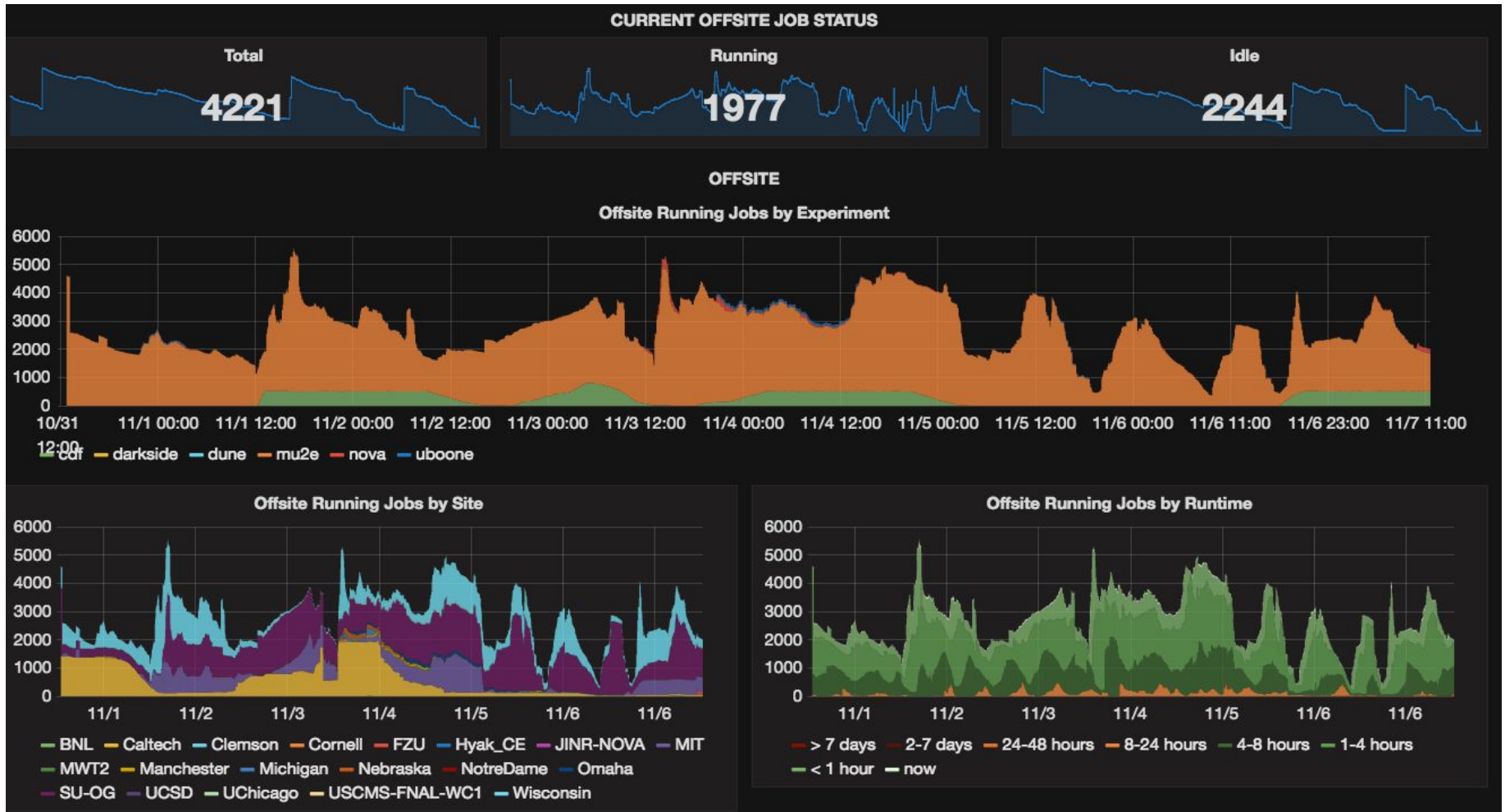


	min	max	avg
> 7 days	36	97	45
2-7 days	0	14304	3841
24-48 hours	0	16240	5522
8-24 hours	0	19837	6683
4-8 hours	0	18721	2734
1-4 hours	0	20482	3524
< 1 hour	0	22476	2148

New Data Cataloged

153.2 TB

<https://fifemon.fnal.gov/monitor/dashboard/db/scd-summary-fife-2>



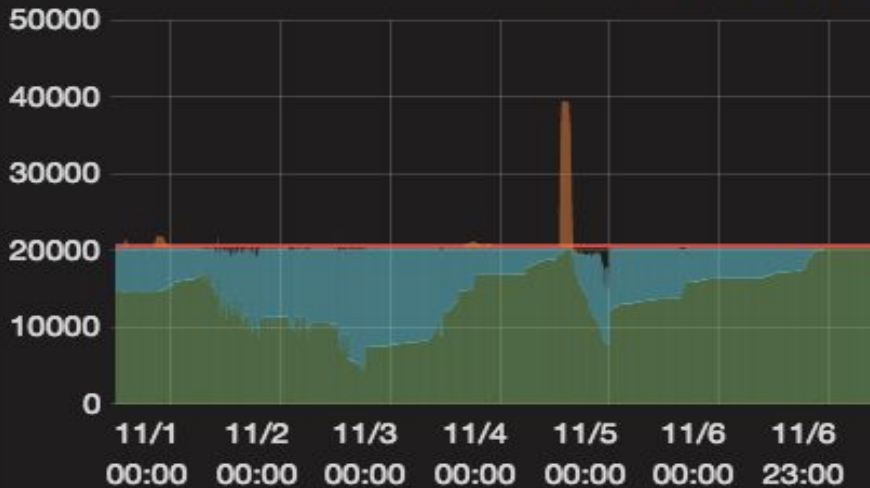
<https://fifemon.fnal.gov/monitor/dashboard/db/fifebatch-offsite?from=now-7d&to=now-5m>

CMS Tier 1 and HEP Cloud

Average Number of In-Use Slots

20400

Claimed Slots on the Tier 1 and HEP Cloud



	min	max	avg
CMS Production	4688	20576	14261
CMS Analysis	0	3	0
OSG Opportunistic	24	15610	6139
Onsite Slots (Tier 1)	20584	20608	20600
HEP Cloud	0	18848	295

Percent of Slots Onsite (Tier 1)

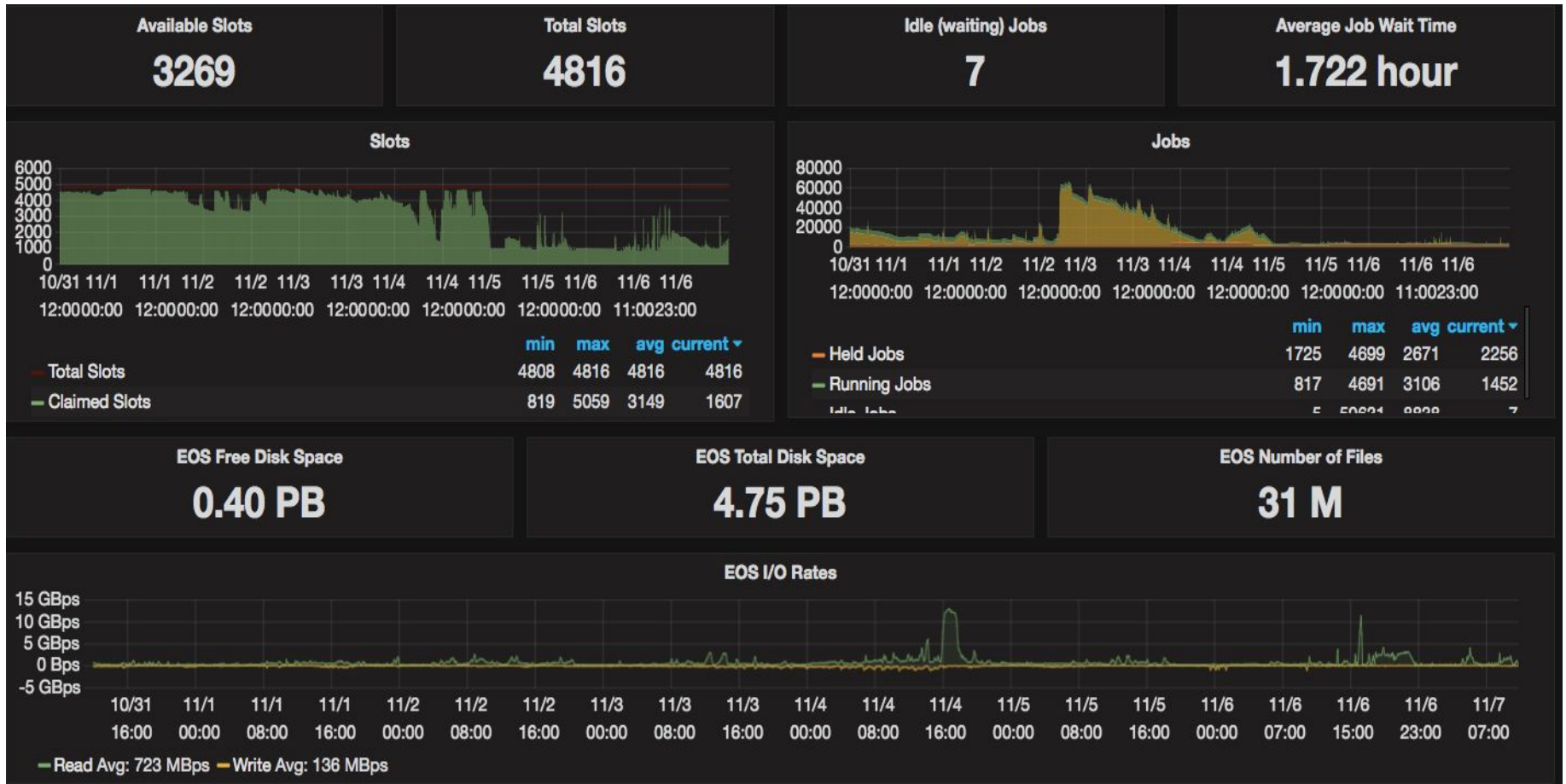
97.5%

Percent of Slots In HEP Cloud

2.5%

<https://fifemon.fnal.gov/monitor/dashboard/db/scd-summary-cms>

US CMS LPC



<https://landscape.fnal.gov/lpc/dashboard/db/lpc-summary>