Computing Liaison Report

Analysis Tools meeting

June 6, 2019

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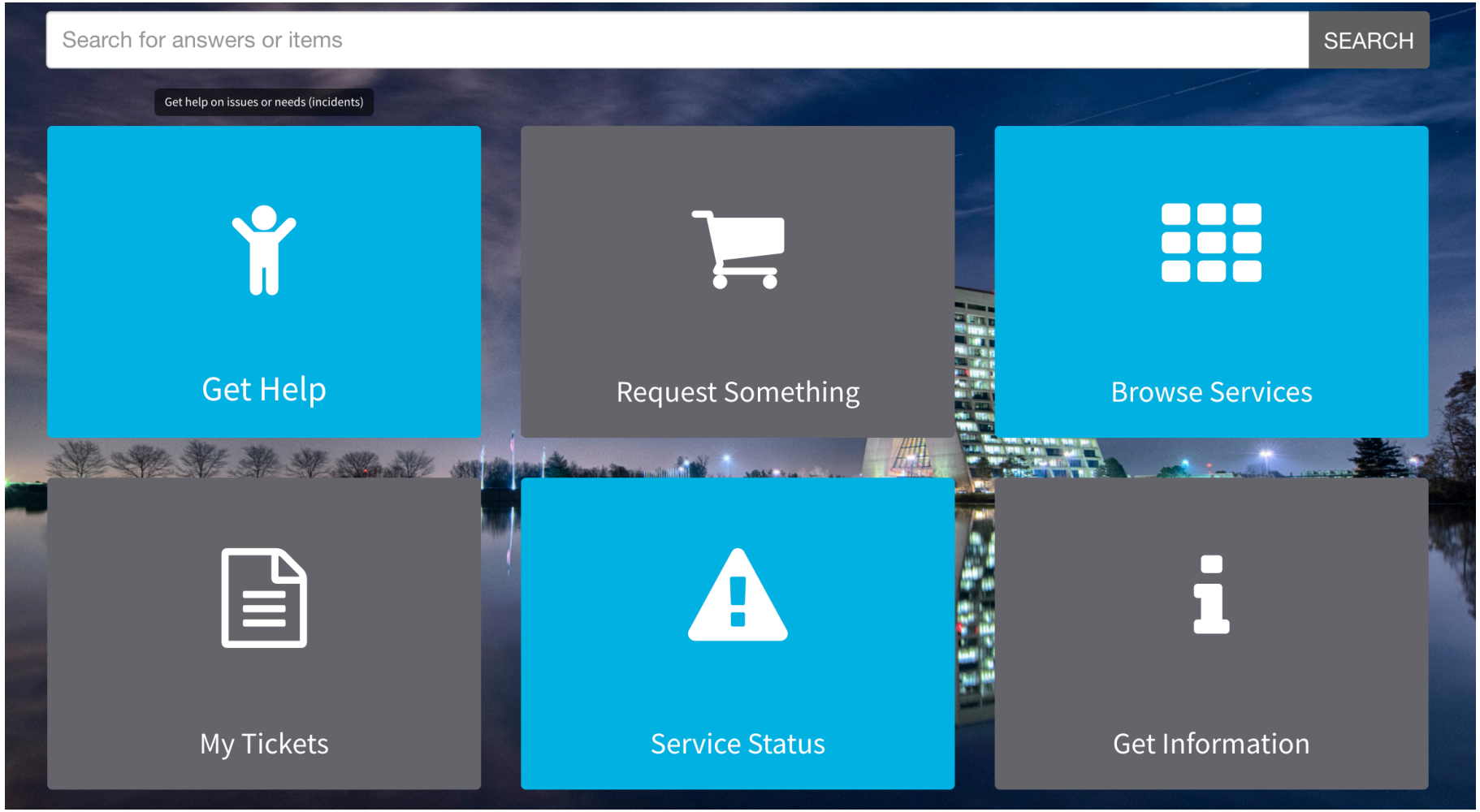
FIFE Workshop

- The Summer 2019 FIFE workshop will be on July 2 (9:00am-1:00pm) Indico is page under construction
- Please send Tanya, Ken and me if there is a particular subject you want to address at the workshop
- The format will be similar to the January 2019 workshop https://indico.fnal.gov/event/19031/
- Plan to attend: it's an opportunity to get information of the status of services you are using and ask questions and give your feedback/what do you need.

ServiceNow (SNOW) Tickets

- This is the tool to request computing support/help
- It helps keep tracking your request and the solution of a problem
- Follow your ticket and ask to close it if the issue is solved or your request is fulfilled
- Contact me if your request is “pending”, I’ll follow up
- Before opening an incident ticket, check if there is an ongoing outage/maintenance in the “Service Status” of the SNOW portal
- Monthly planned maintenance is the third Wednesday of the month.

SNOW Portal

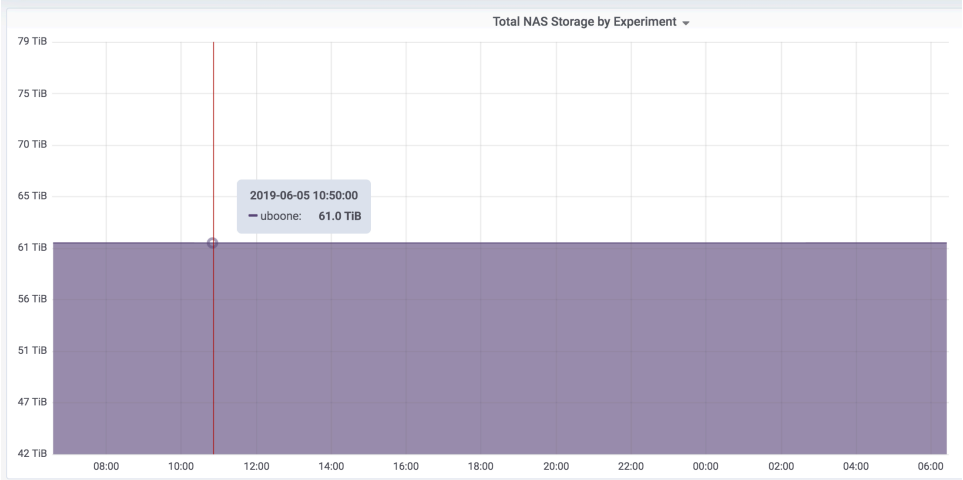


https://fermi.service-now.com/wp

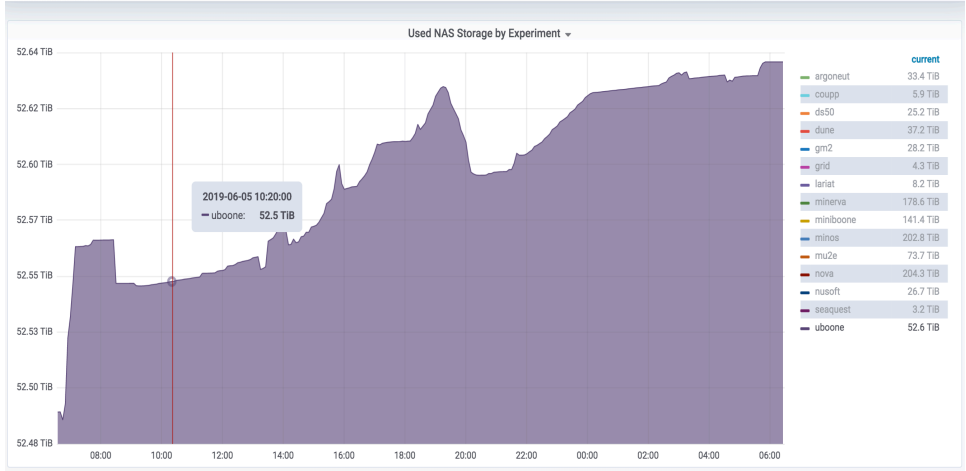
NAS Usage

- Available NAS space is not unlimited and very unlikely to expand
- Clean up unneeded files/directories, gives a better idea of what are the true resource needs
- Users/groups have been receiving e-mails when they reach a warning quota or the limit.
- Check the usage here: https://fifemon.fnal.gov/monitor/d/0-5dQkQmk/nas-bluearc-usage?orgId=1

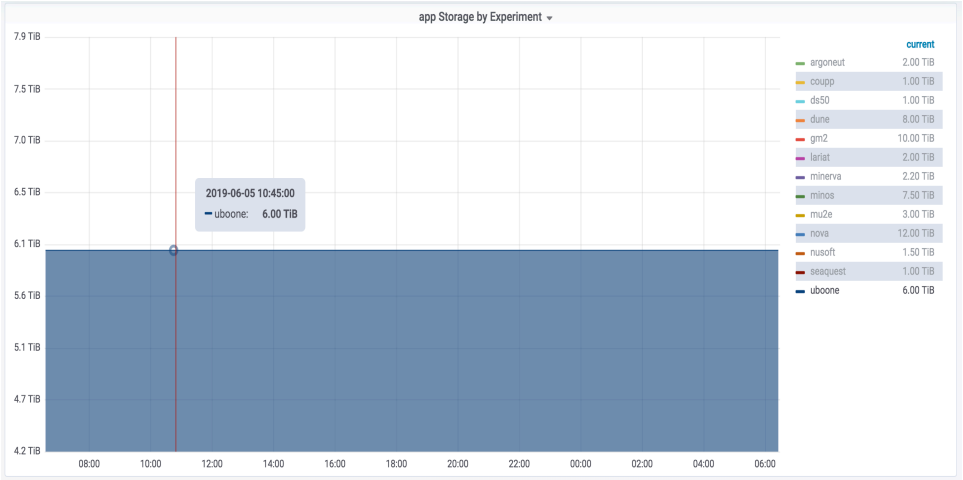
MicroBooNE NAS Usage



https://fifemon.fnal.gov/monitor/d/0-5dQkQmk/nas-bluearcusage?orgId=1&from=1559734587851&to=1559820687851



https://fifemon.fnal.gov/monitor/d/0-5dQkQmk/nas-bluearc-usage?orgId=1&from=1559734934218&to=1559821034218



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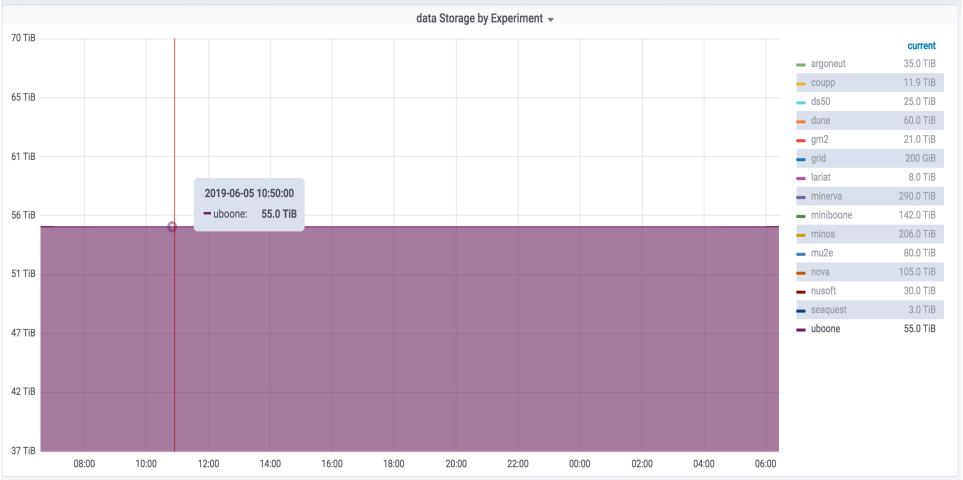

https://fifemon.fnal.gov/monitor/d/0-5dQkQmk/nas-bluearc-usage?orgId=1&from=1559735636257&to=1559821736257

Production Shifter Dashboard

- It is intended to be the central source of detailed production monitoring information
- It allows navigation from top level POMS campaign to a failed job log for debugging
- It is customizable per experiment! Simply open a SNOW ticket and explain what you would like to see.

MicroBooNE Production Shifter Dashboard

FIFE Experiments / Production Shifter

Last 24 hours

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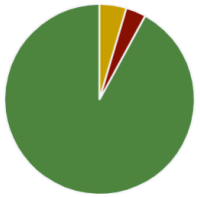
Condor Subgroup Usage by User

Completed Production Job Status



	total	percentage
Cancelled	534	5%
Fail	396	3%
Success	10.74 K	92%

Current Production Job Status

idle jobs - 1,036
running jobs - 1,286
held jobs - 5
max idle time - 2 week

FTS and SAM Status

Δ pending files - 0
files waiting on tape - 2 K
transfer rate - 21.10 MB/s
sam station status - 200

Storage Usage

BlueArc - 87%
Persistent dCache - 80%

Production Batch Job Efficiency

cpu efficiency - 69.34%
memory efficiency - 63.89%

Transfer Status

95th percentile - 9 s

Row title

Active/Recent POMS Campaign Stages

Stage ID	CampaignName__StageName	Batch Jobs Completed	Failed Jobs	Average CPU Eff	Average Mem Eff
3483	yuyi_test_8_stages__extbnb_pandora	8	0	11%	15%
3482	yuyi_test_8_stages__bnb_pandora	8	0	10%	12%

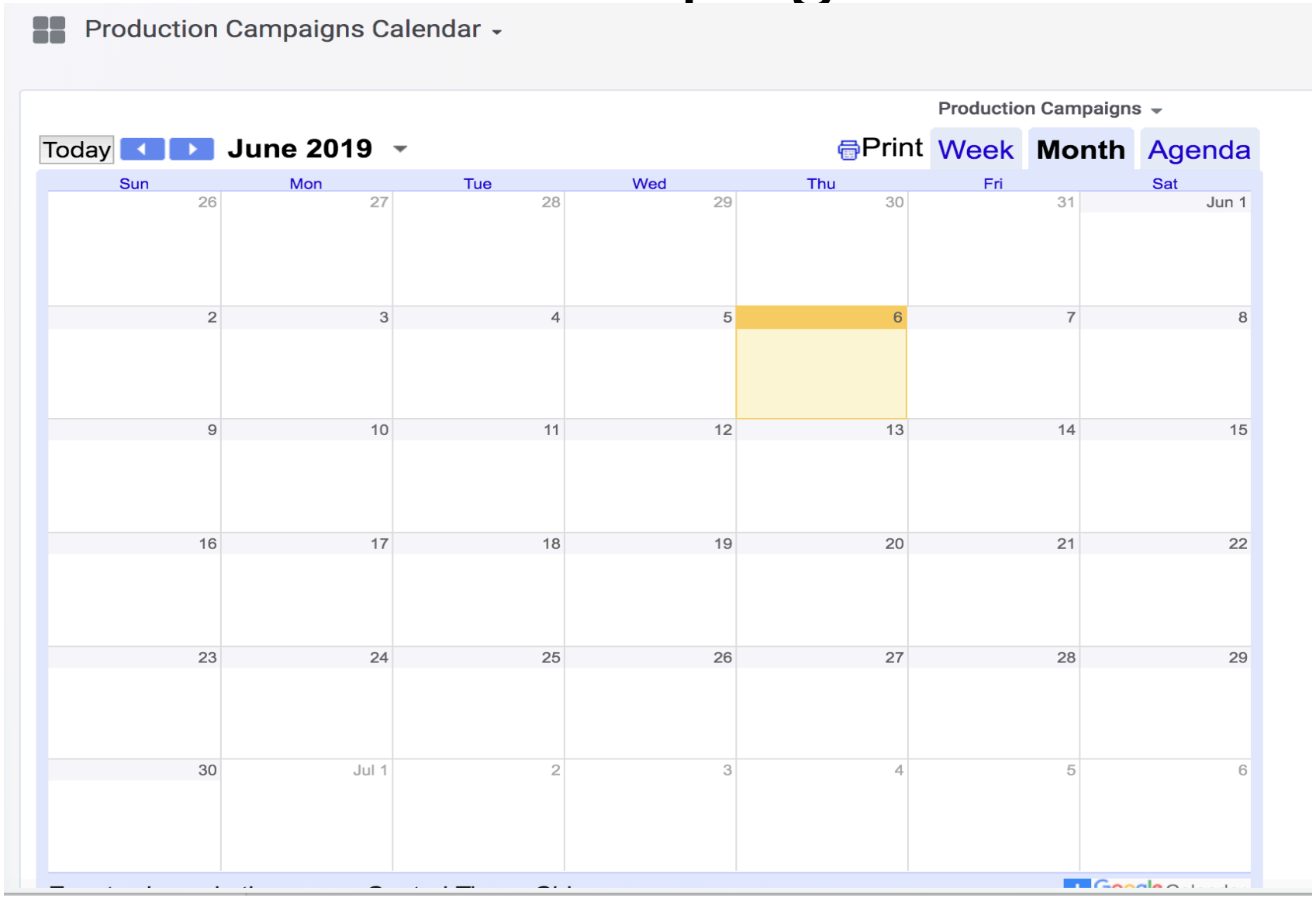
https://fifemon.fnal.gov/monitor/d/HMj5hqVik/production-shifter?orgId=1&from=1559736704914&to=1559823104914&var-vo=uboone

Production Campaigns Calendar

- It’s the place where experiments can write down their large-scale MC production and DATA processing campaigns
- Useful for managements to understand potential resource conflicts (both CPU and storage access) and to plan off-monthly maintenances Keep it up-to-dated

https://fifemon.fnal.gov/monitor/d/HQ2nGUamz/production-campaigns-calendar

Production Campaigns Calendar



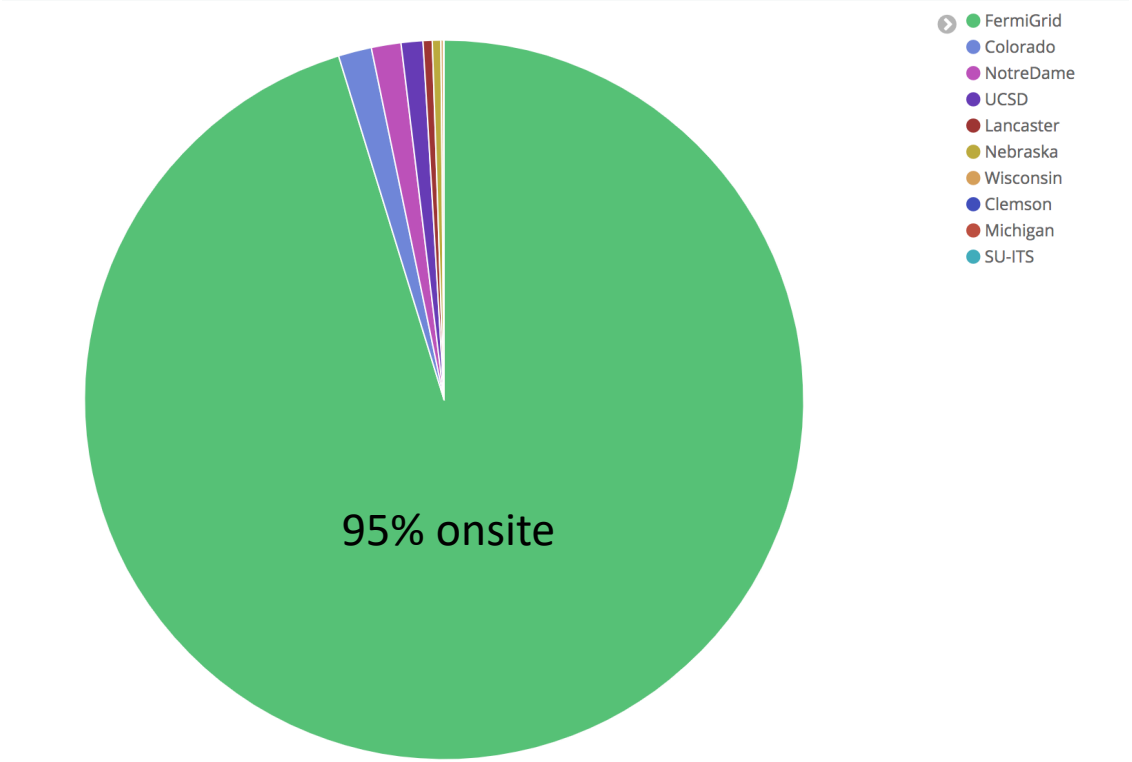
MicroBooNE Offsite Jobs

- MicroBooNE can increase batch resources by increasing the # jobs running offsite (OSG)

MicroBooNE Production Site Distribution in the latest 30 days, weighted by Wall Time

Offsite jobs are only 5%!

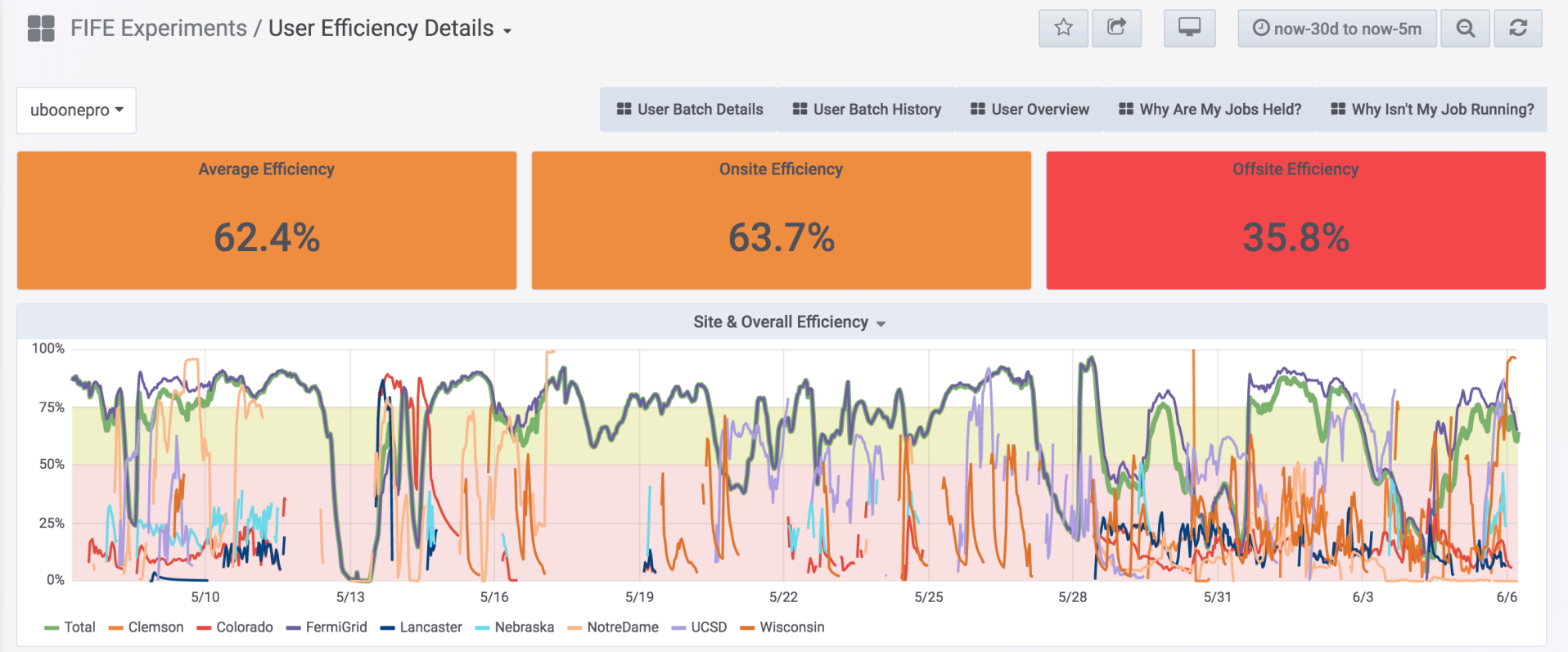
There is room to increase the # jobs successfully running offsite.



https://fifemon.fnal.gov/kibana/goto/7f7b61f9c2f26d4262604aafabc30314

MicroBooNE Offsite Jobs (cont'd)

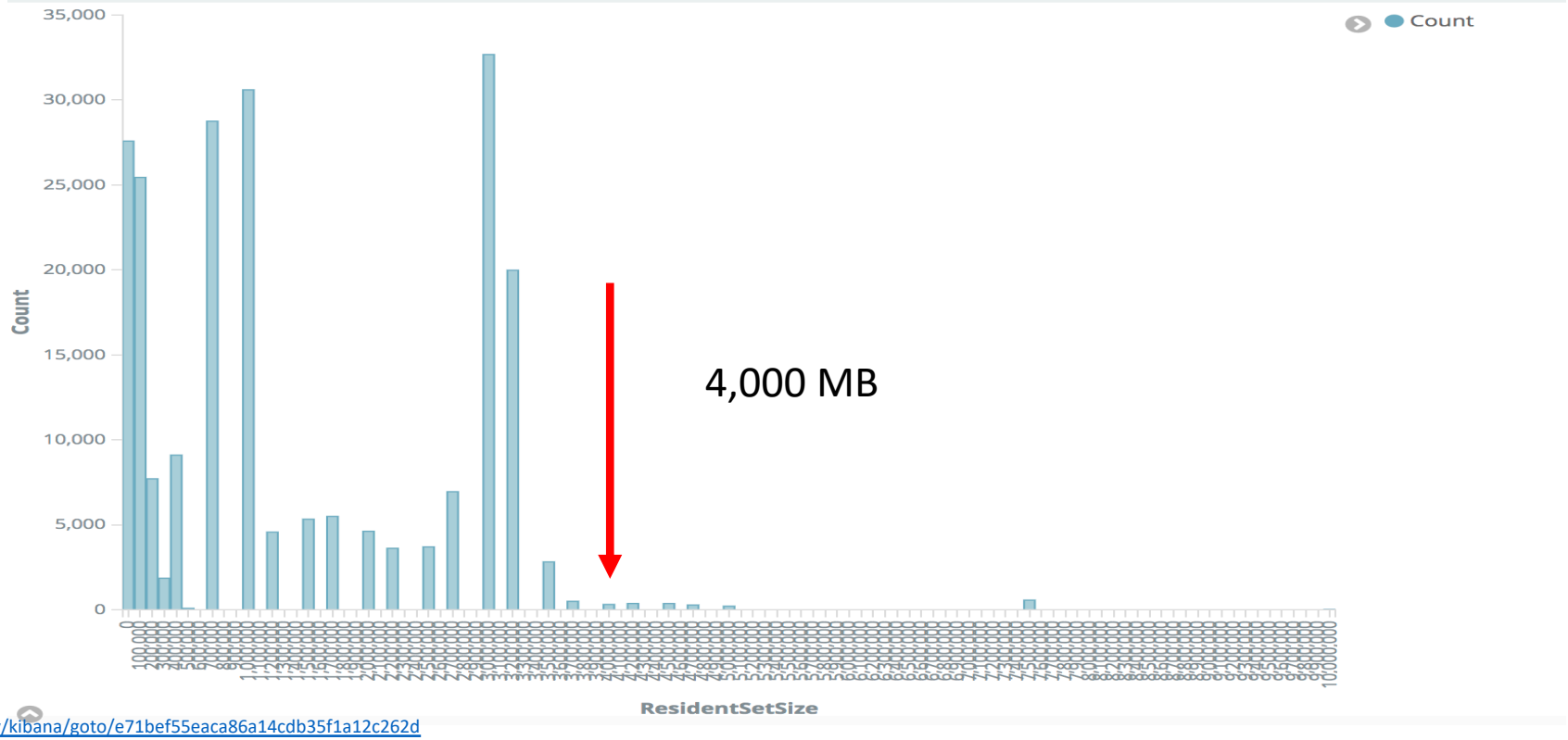
- MicroBooNE can increase batch resources by increasing the # jobs running offsite (OSG)



https://fifemon.fnal.gov/monitor/d/000000069/user-efficiency-details?from=1557226694828&to=1559818394828&orgId=1&var-user=uboonepro

Memory Efficiency

- MicroBooNE can increase batch resources by increasing the memory efficiency: check memory usage



https://fifemon.fnal.gov/kibana/goto/e71bef55eaca86a14cdb35f1a12c262d