



NOvA experiment report

An update of NOvA operations week of 04/24

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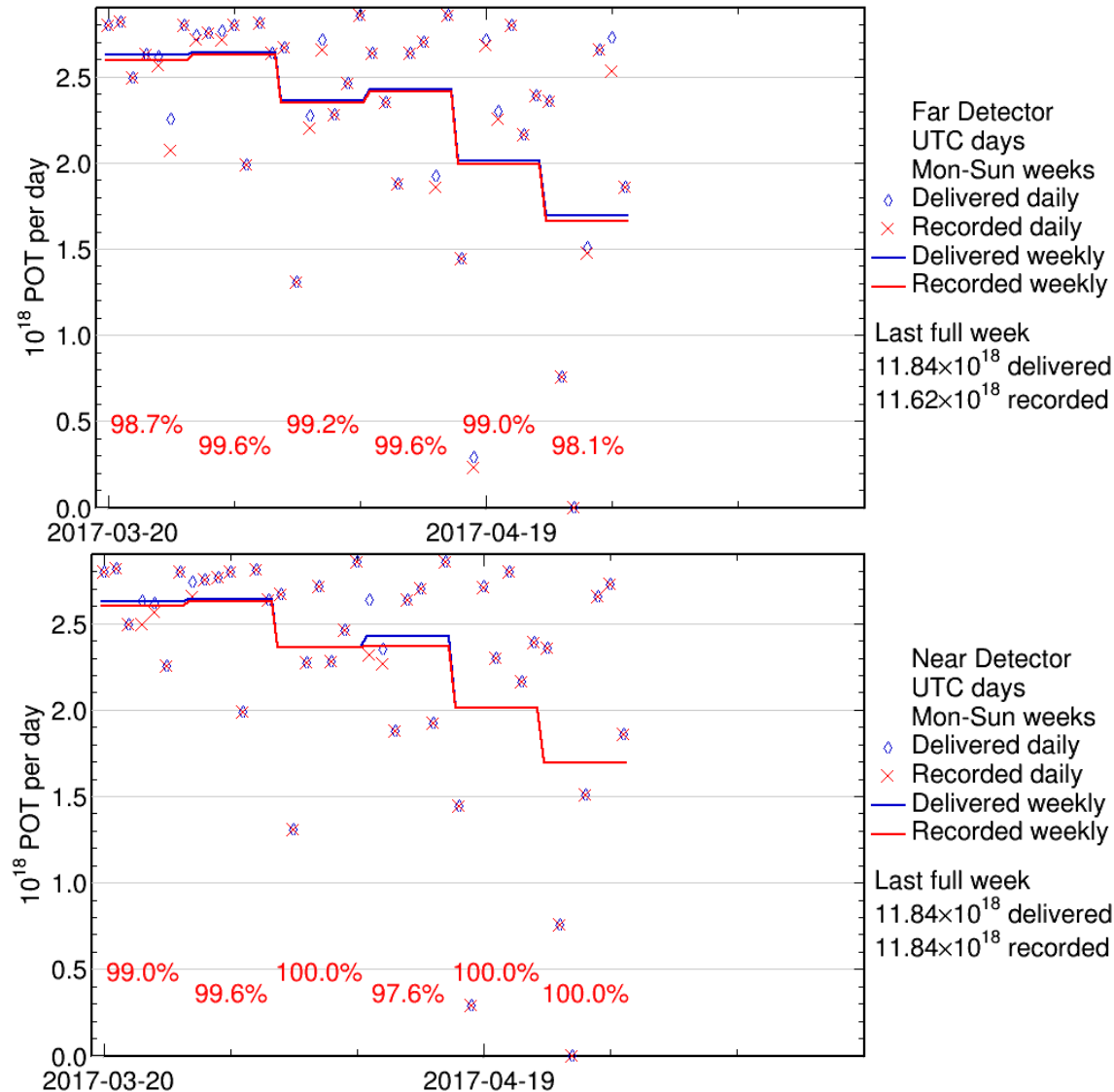
INDIANA UNIVERSITY

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DAQ Status and Uptime

○ **99.0% POT-weighted uptime** for last 4 weeks (FarDet)

○ **99.4% POT-weighted uptime** for last 4 weeks (NearDet)



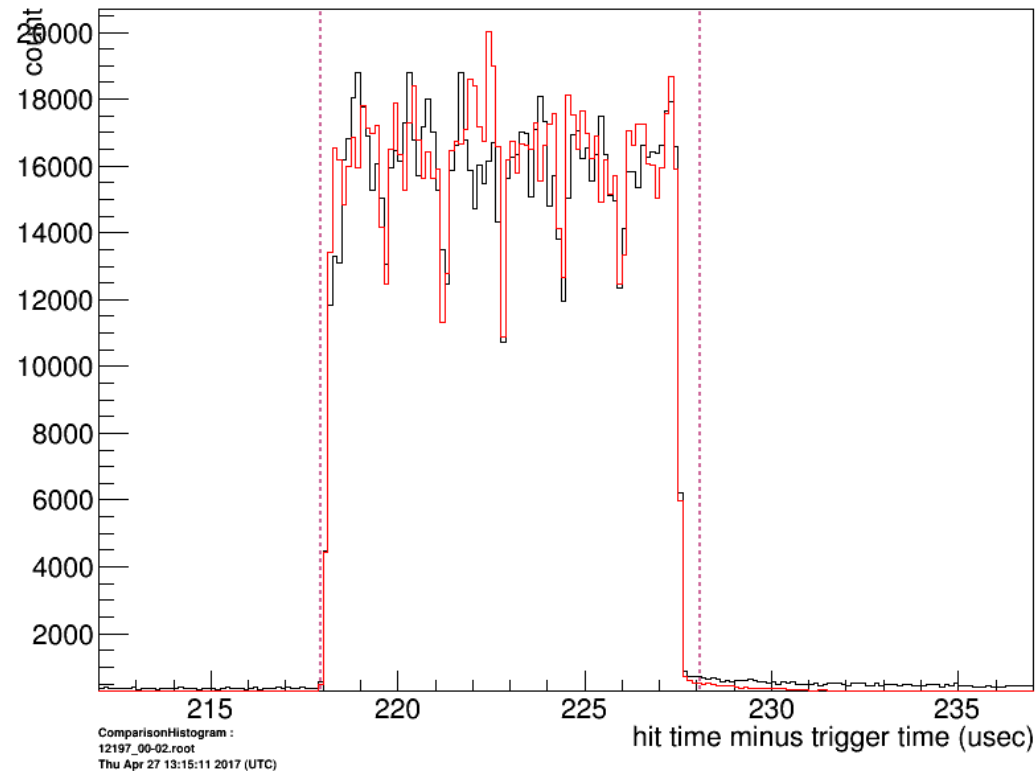
NOvA Timing

New Multi-mode communications cable connected with a difference in the delay time of the signal and the spill (longer cables): Multi-mode: +258.8 ns

“There is no appreciable shift in the timing peak, and the new global trigger offsets sufficiently account for the new cable delay.”

Hit time minus trigger time for runs before (red) switch and after (black)

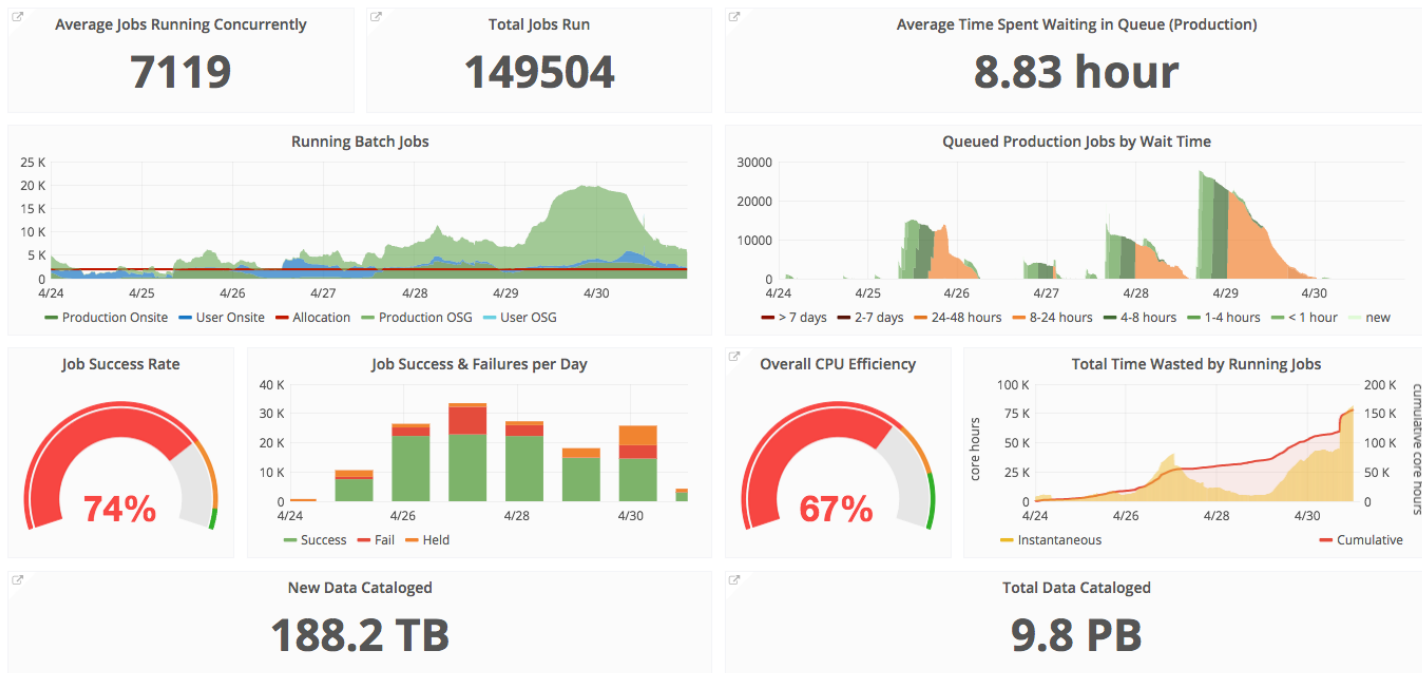
Signal	$\delta \equiv (\text{FCC} - \text{MSB}) \text{ [ns]}$			difference [ns]
	old	predicted	measured	
NuMI [\$74]	+1,131	+872.2	+885.1	12.9
1Hz [\$8f]	-12,471	-12,729.8	-12,712.6	17.2
BNBtclk [\$1f]	-12,471	-12,729.8	-12,720.0	9.8



Computing: Last Week



NOVA Computing Summary



- Most of the week still focused on systematic samples.
- Over the weekend we turned our focus to running reconstruction on our large FD cosmic dataset.
 - Successfully processed > 30k files
 - This large sample is able to make very effective use of available cores on the OSG.
 - Held jobs are due to a small fraction of files requiring extra memory, which we will process on a second pass this week.