


# Offline Monitoring Report

- Status of current launch
- SWIF + monitoring DBs
- Next launch

August 12, 2015

Kei Moriya

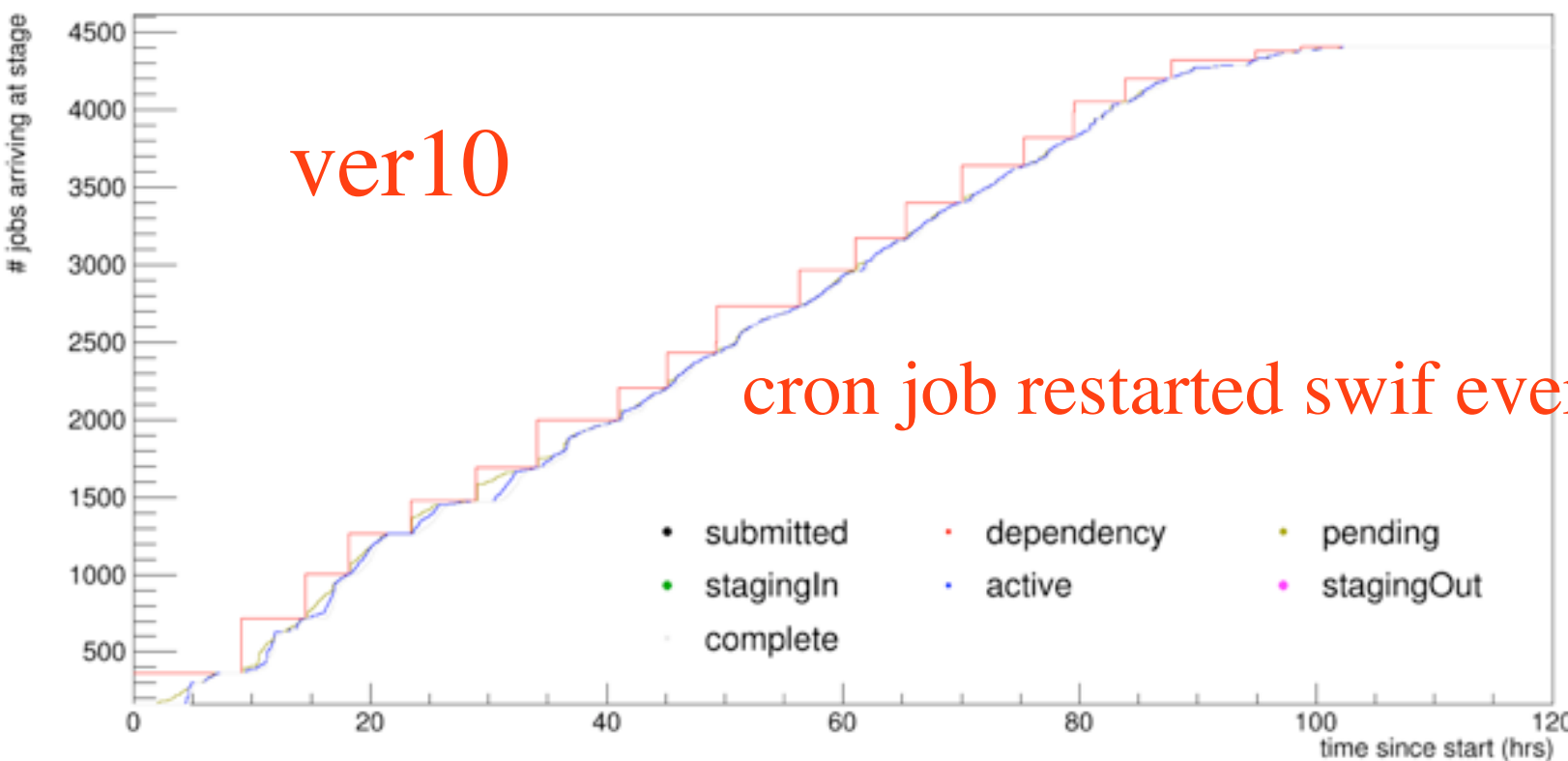
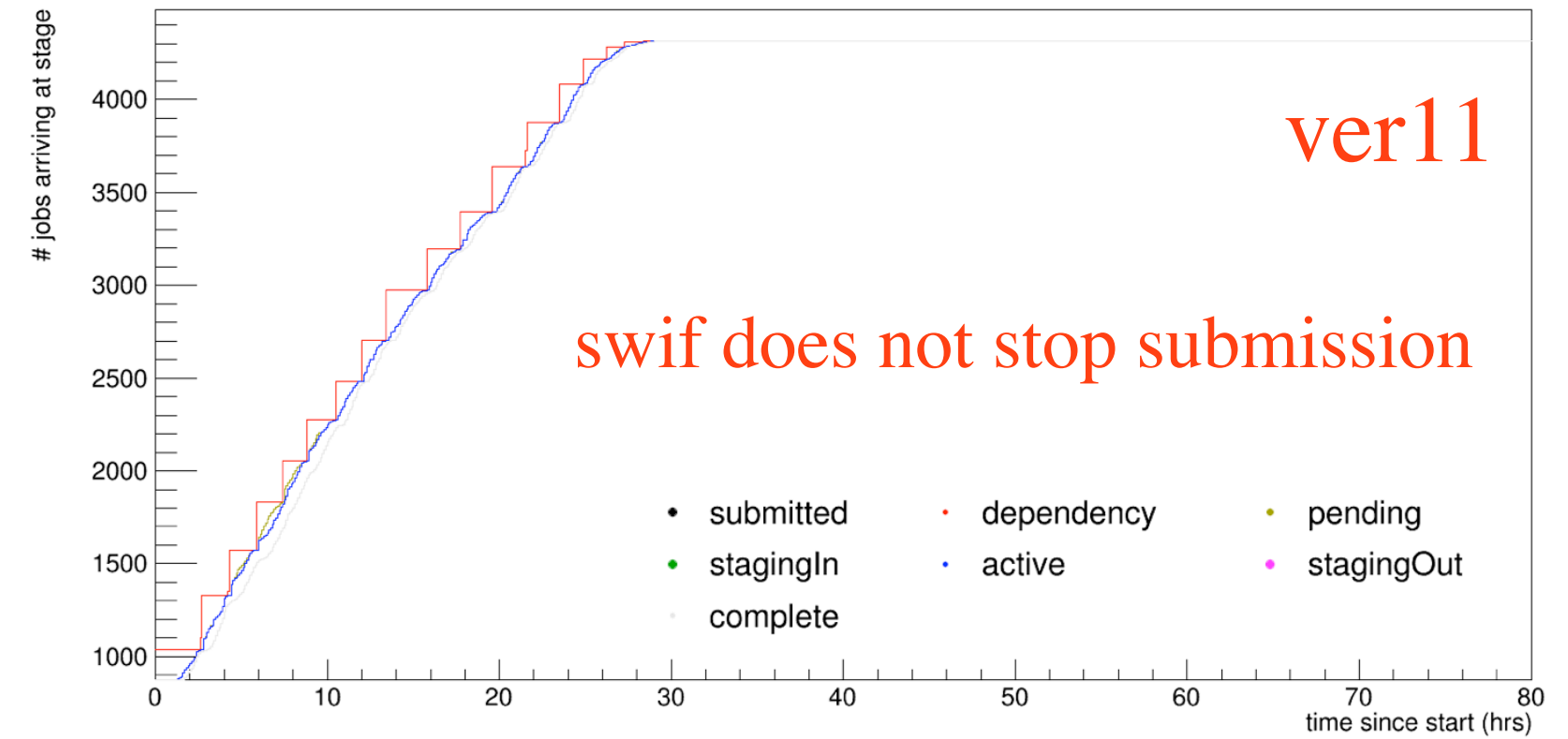
# Current Launch

- 2015-03 ver11 launched on August 7 (Fri)
- 4314 jobs (files) for data from 2015-03
- Transitioning to SWIF usage:
  - Hybrid system of SWIF + usual monitoring DBs
  - SWIF submits jobs, usual DBs used for analysis with input from SWIF
- SWIF does not stop submission when jobs fail 
- Farm was not as busy as previous launch

# Statistics of Current Launch

- Time against # of jobs reaching each stage since start

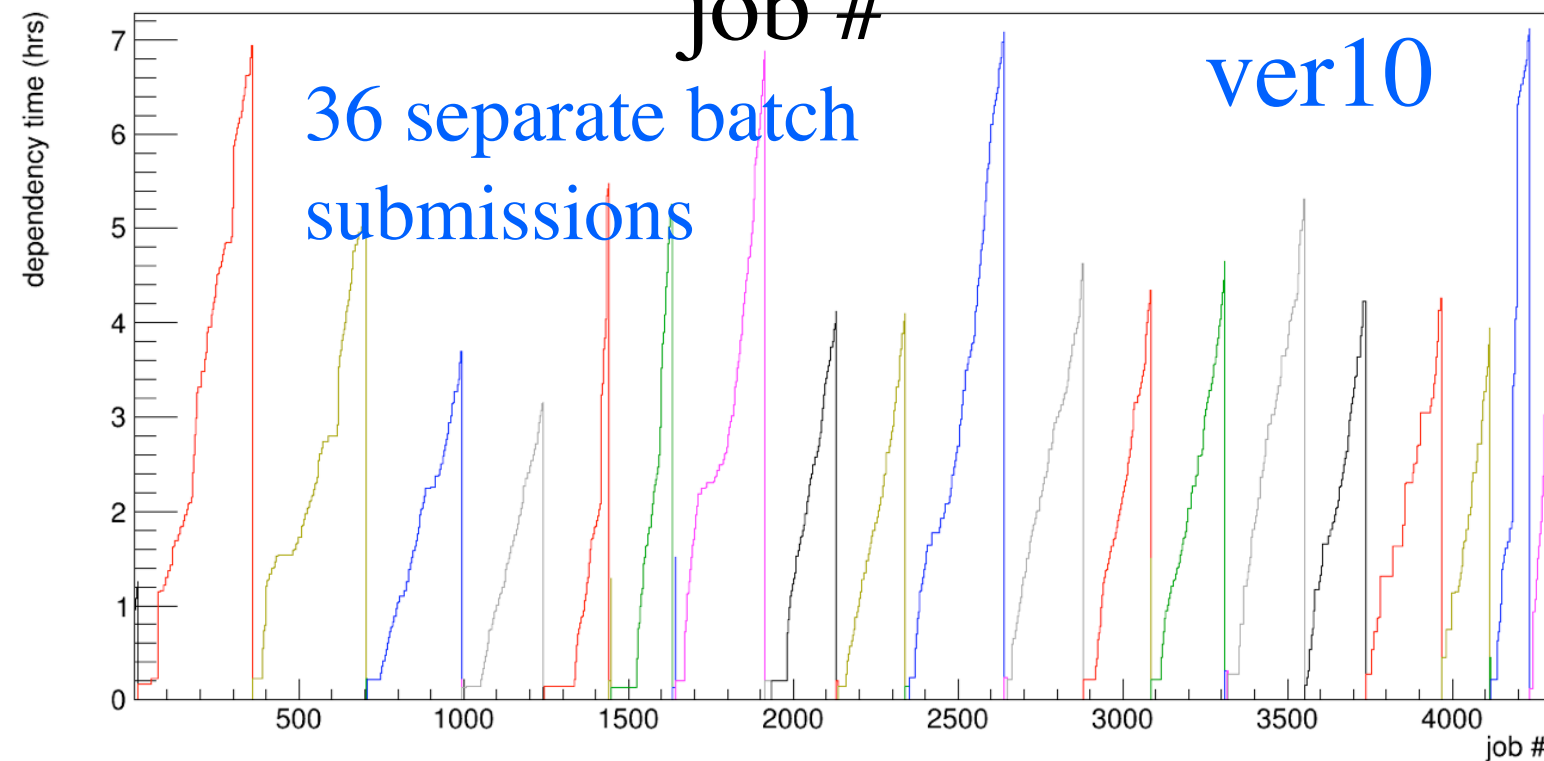
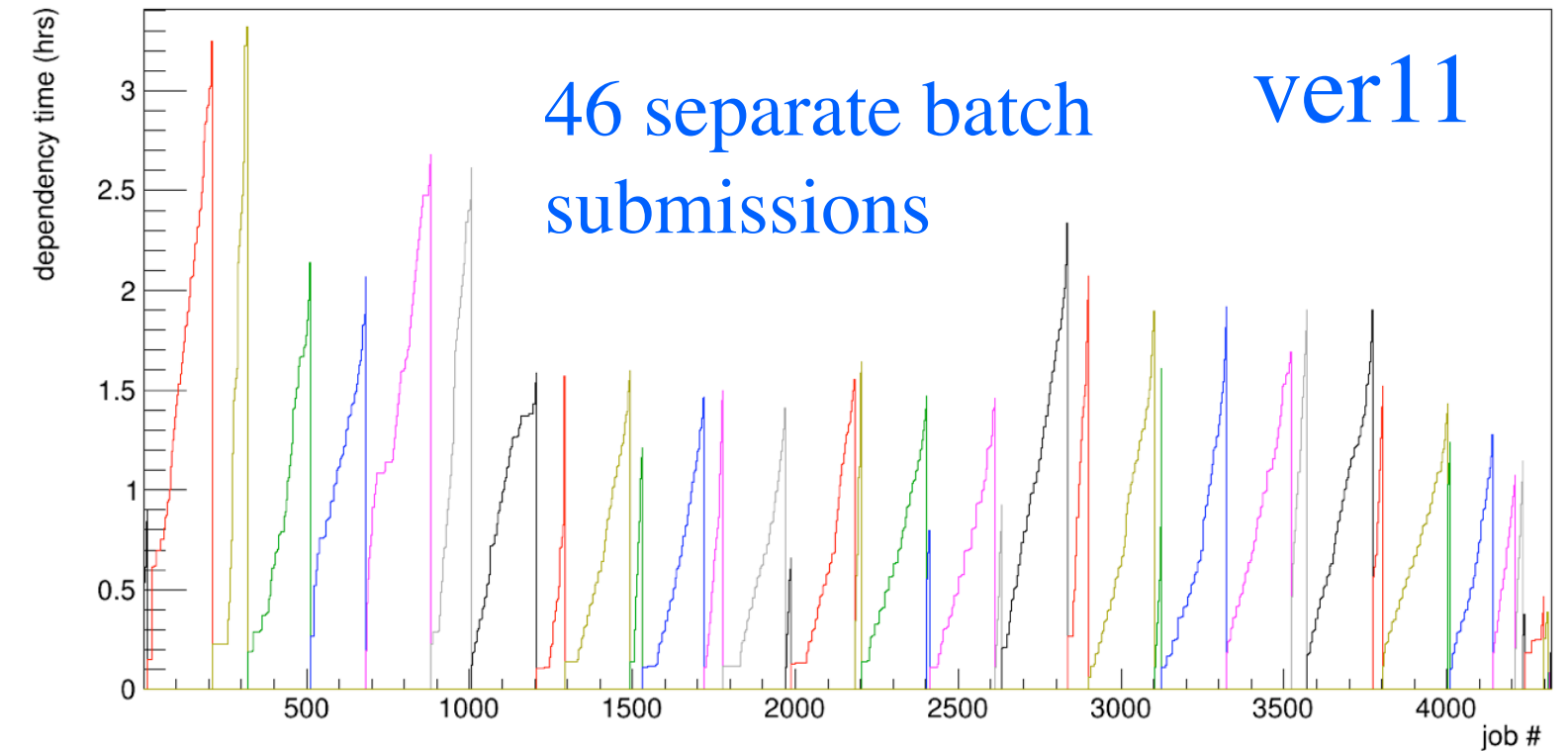
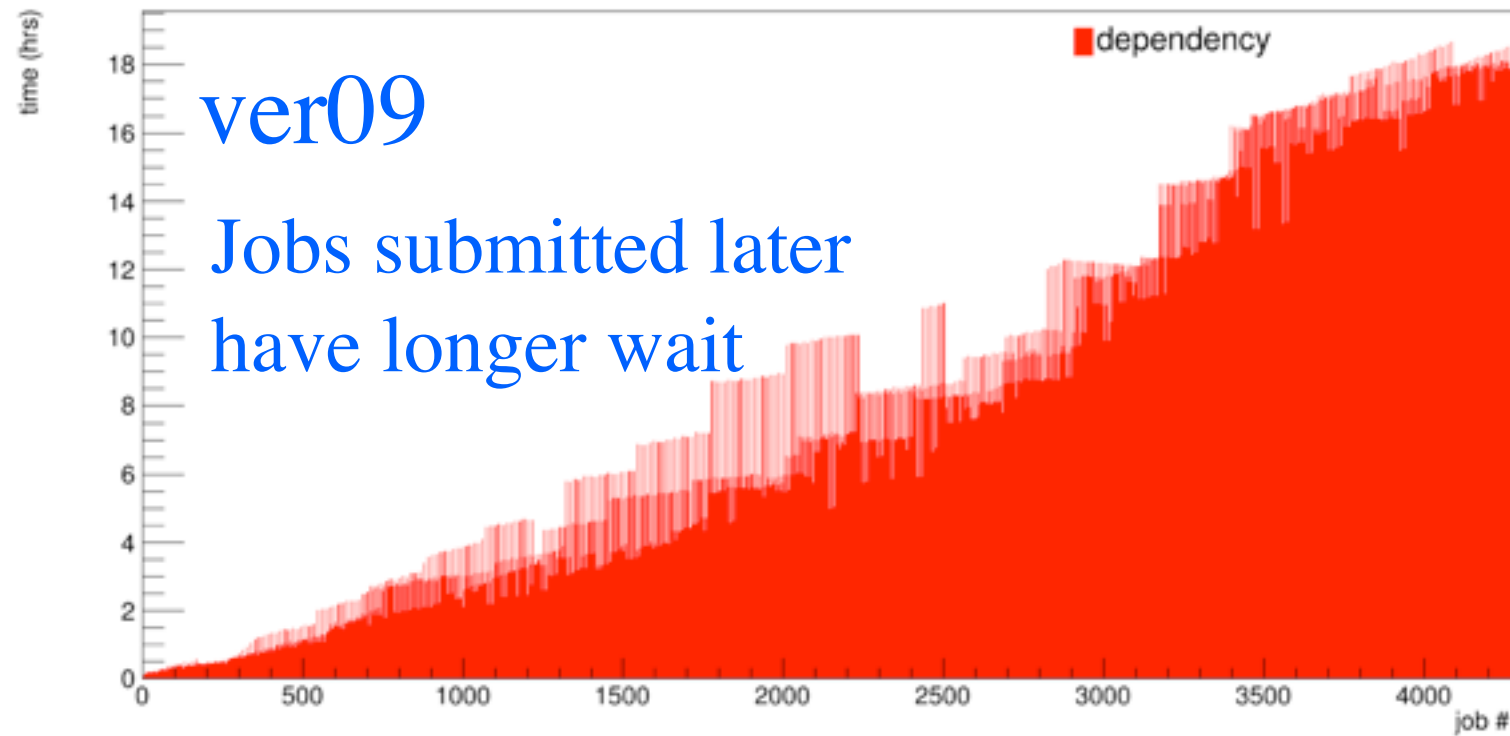
[https://halldweb.jlab.org/data\\_monitoring/launch\\_analysis/](https://halldweb.jlab.org/data_monitoring/launch_analysis/)



Finished ~4400 jobs in <30 hours

# Time Spent in Dependency

[https://halldweb.jlab.org/data\\_monitoring/launch\\_analysis/](https://halldweb.jlab.org/data_monitoring/launch_analysis/)



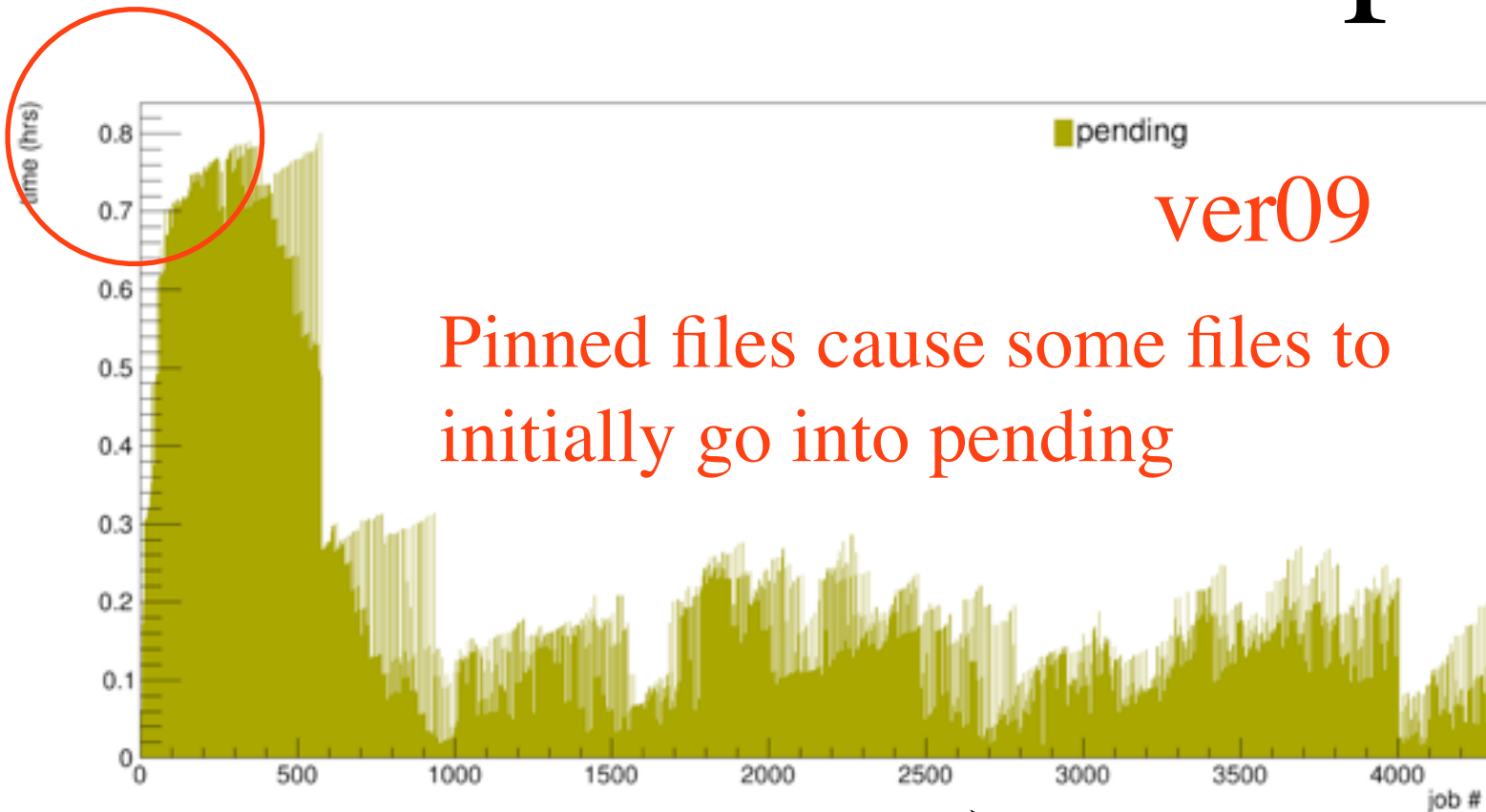
For ver10, 11, job # is not order in which jobs are submitted

Maximum time spent in dependency:

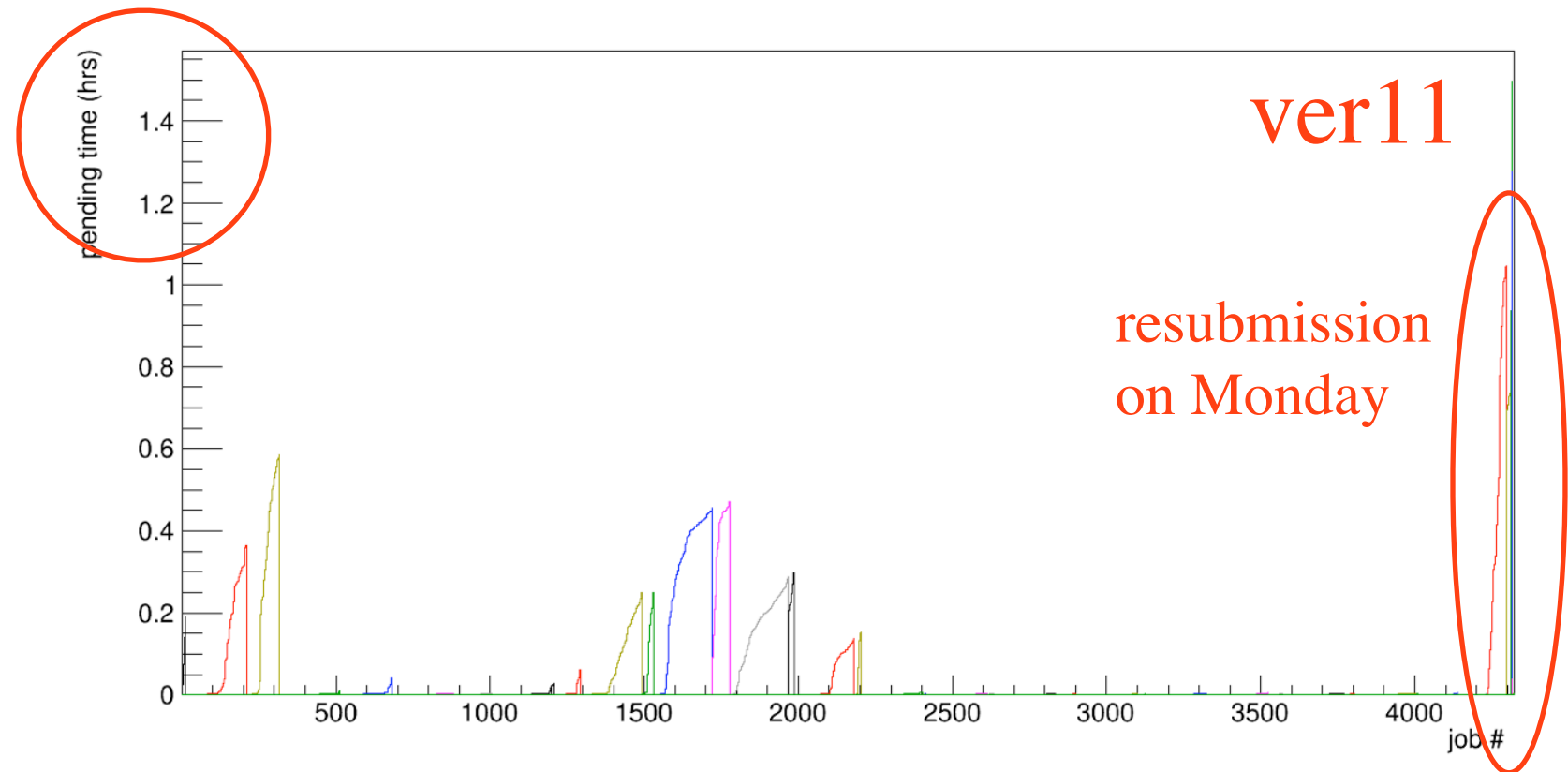
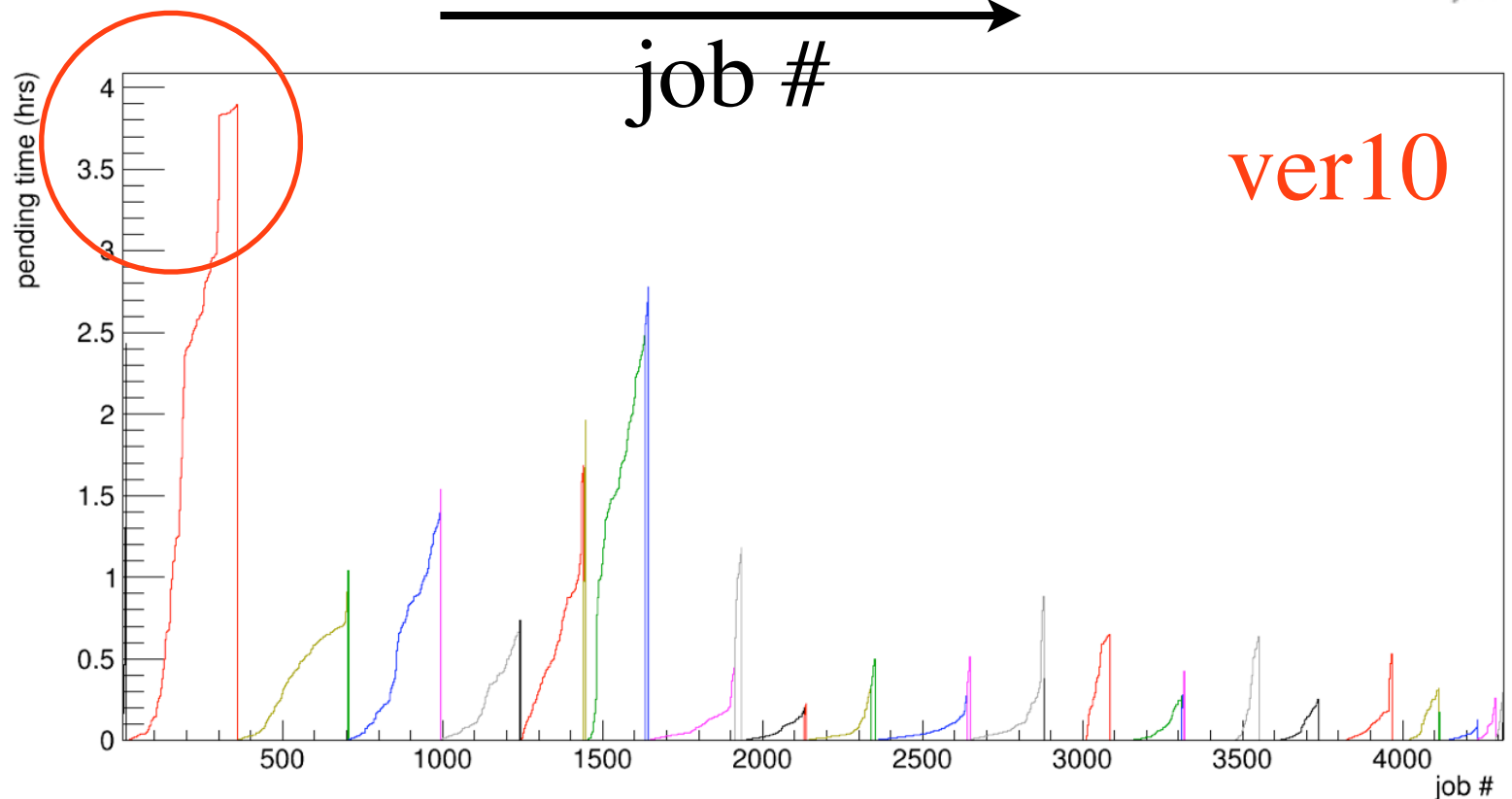
ver 10: ~7 hours

ver 11: ~3 hours

# Time Spent in Pending



Note: SWIF is not aware of pinned files on cache  
(Chris working to implement)



Maximum time spent in dependency:

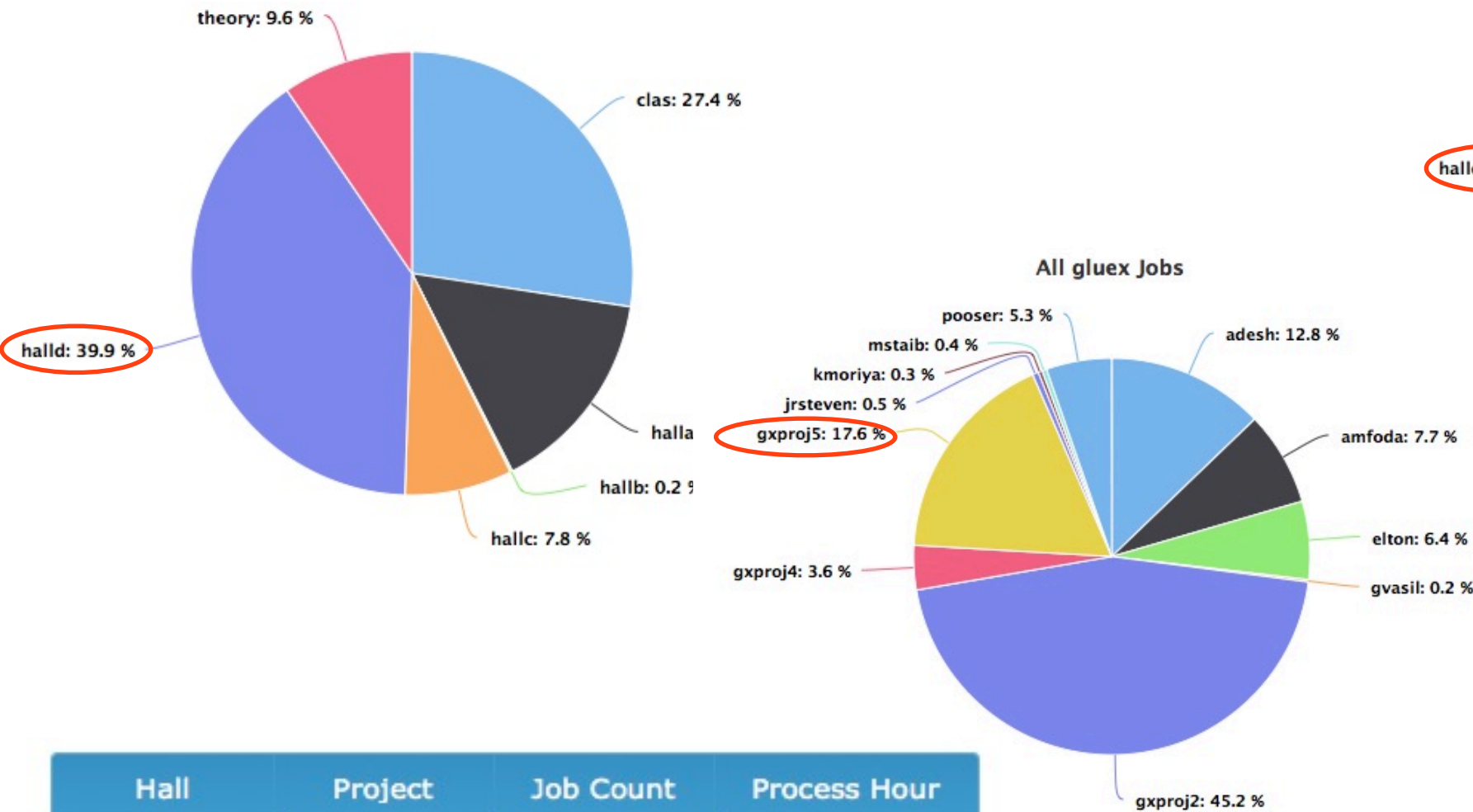
ver 10: ~4 hours

ver 11: ~0.6 hours

[https://halldweb.jlab.org/data\\_monitoring/launch\\_analysis/](https://halldweb.jlab.org/data_monitoring/launch_analysis/)

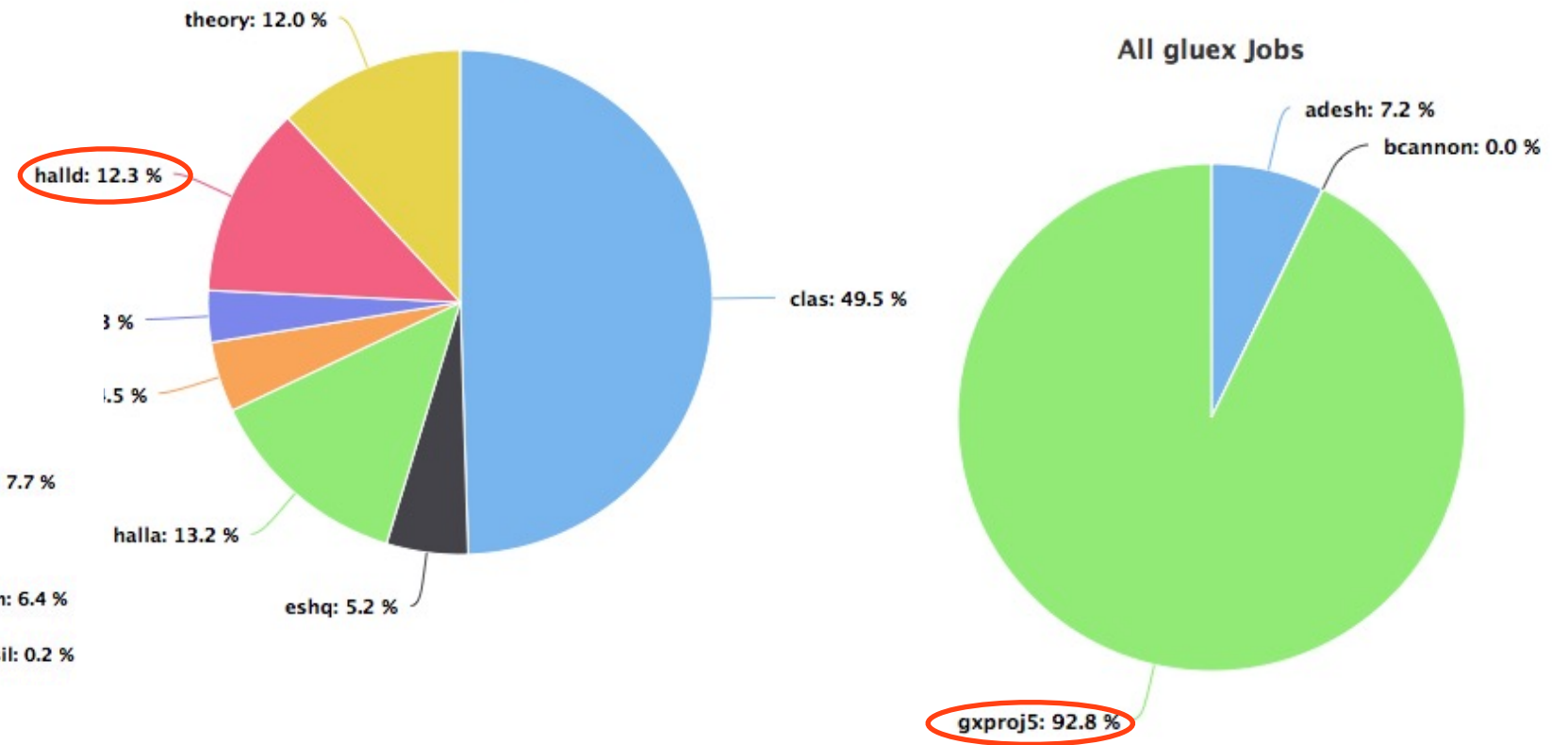
# Farm Environment

- Stats for 2015/07/24 - 2015/07/29



Hall	Project	Job Count	Process Hour
▶ clas	all	66,223	40,944
▶ halla	all	10,357	22,532
▶ hallb	all	1,405	242
▶ hallc	all	6,282	11,706
▶ halld	all	12,615	59,622
▶ theory	all	50,075	14,279
		<b>146,957</b>	<b>149,325</b>

- Stats for 2015/08/07 - 2015/08/09



Hall	Project	Job Count	Process Hour
▶ clas	all	23,212	48,575
▶ eshq	all	84	5,110
▶ halla	all	6,673	12,977
▶ hallb	all	26,436	4,417
▶ hallc	all	2,209	3,251
▶ halld	all	4,353	12,032
▶ theory	all	22,837	11,735
		<b>85,804</b>	<b>98,097</b>



# Moving Forward

- hdswwif released: <https://halldsvn.jlab.org/repos/trunk/scripts/monitoring/hdswwif>
- Still working with Chris on some minor SWIF features
- Sandy has suggested returning 2400 Haswell cores from HPC if necessary (test before next run period?)
- Ran mini-launch (ver12) with David's fADC250 emulation mode change
  - check that if no flags are specified in hd\_root, nothing has changed
  - running over pinned (useful) 2015 Spring files only (520 files from 29 runs)
- If others need mini-launches, please let me know
- Next launch will be August 28