

# Offline Monitoring Report

April 15, 2015  
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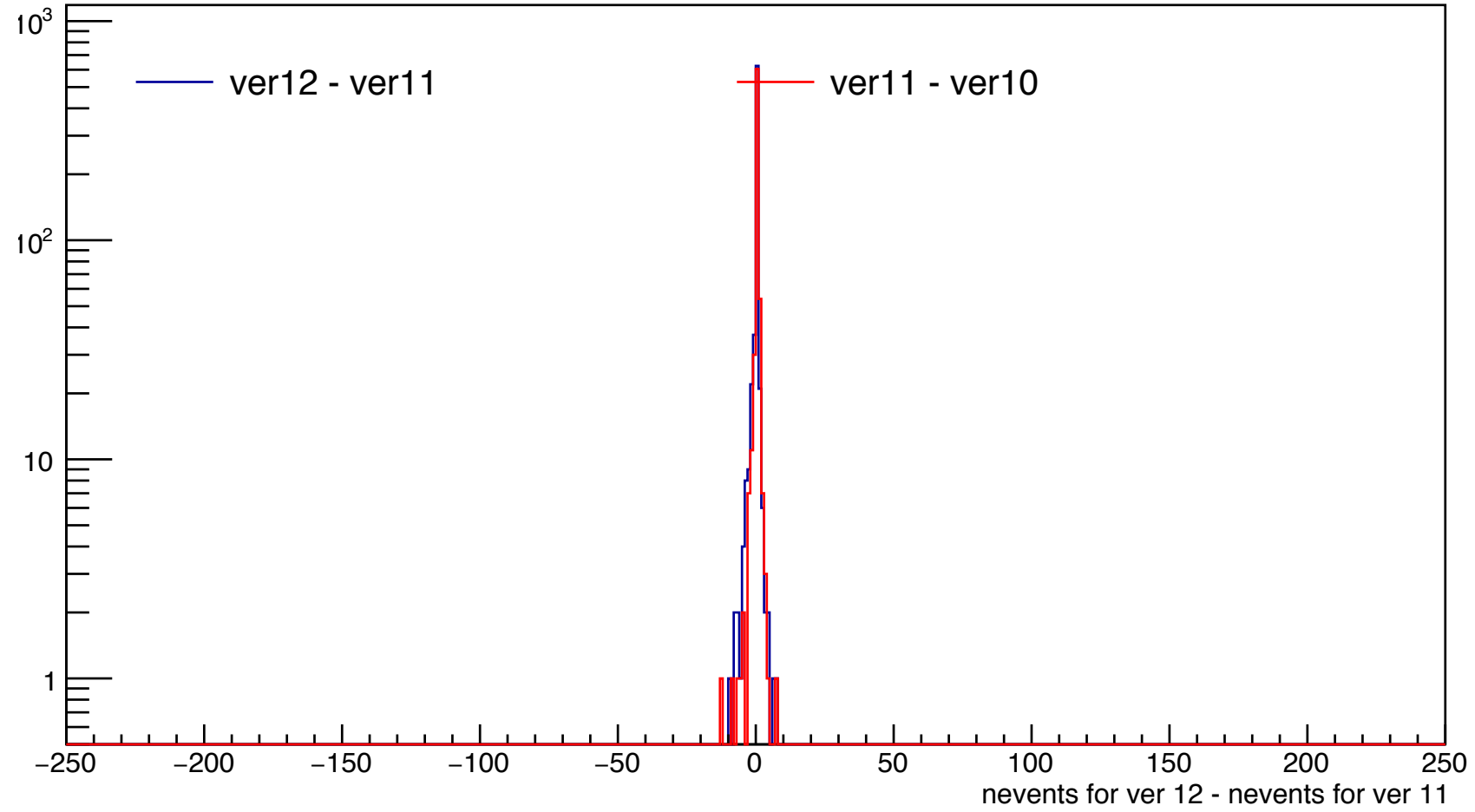
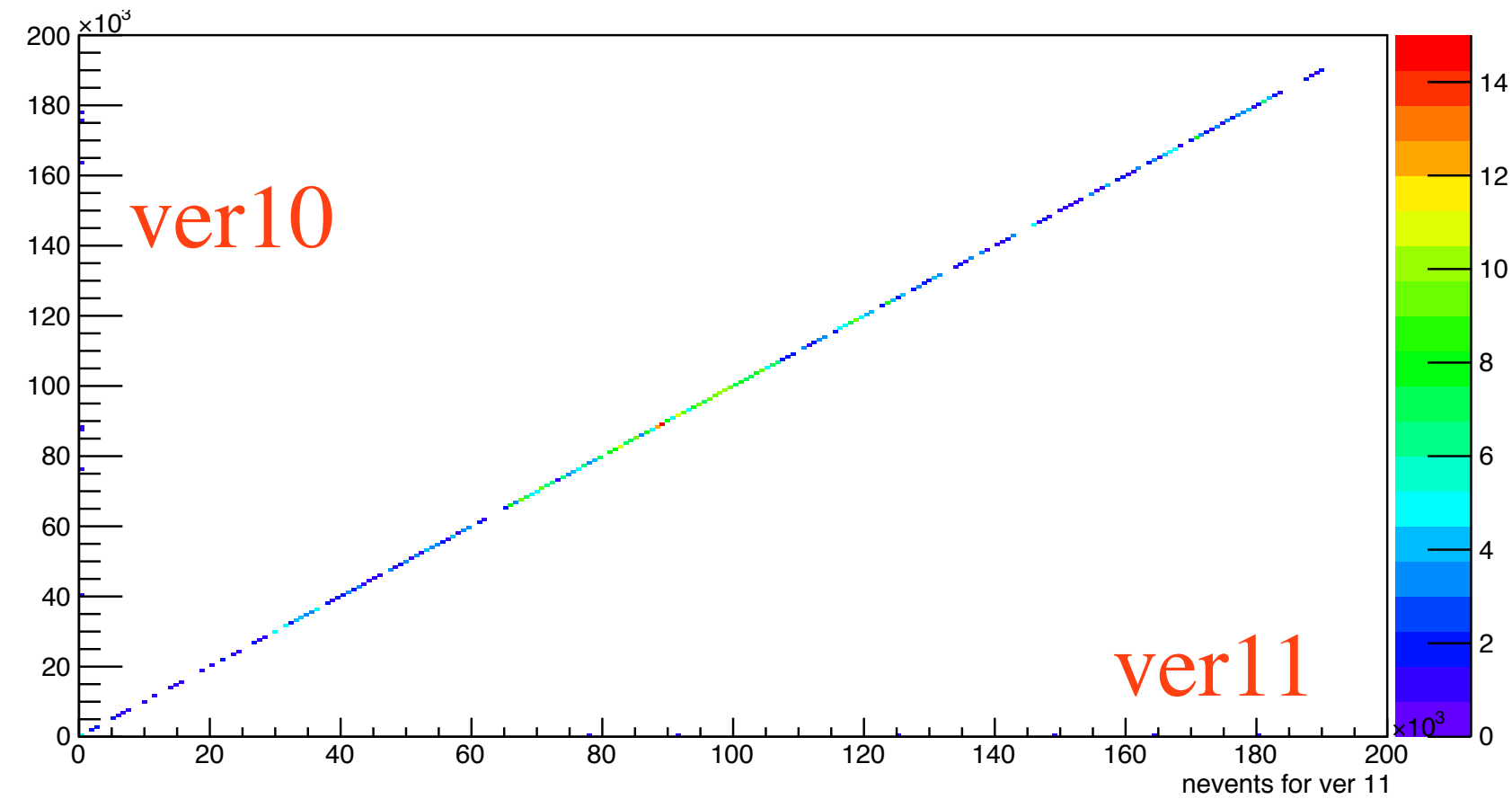
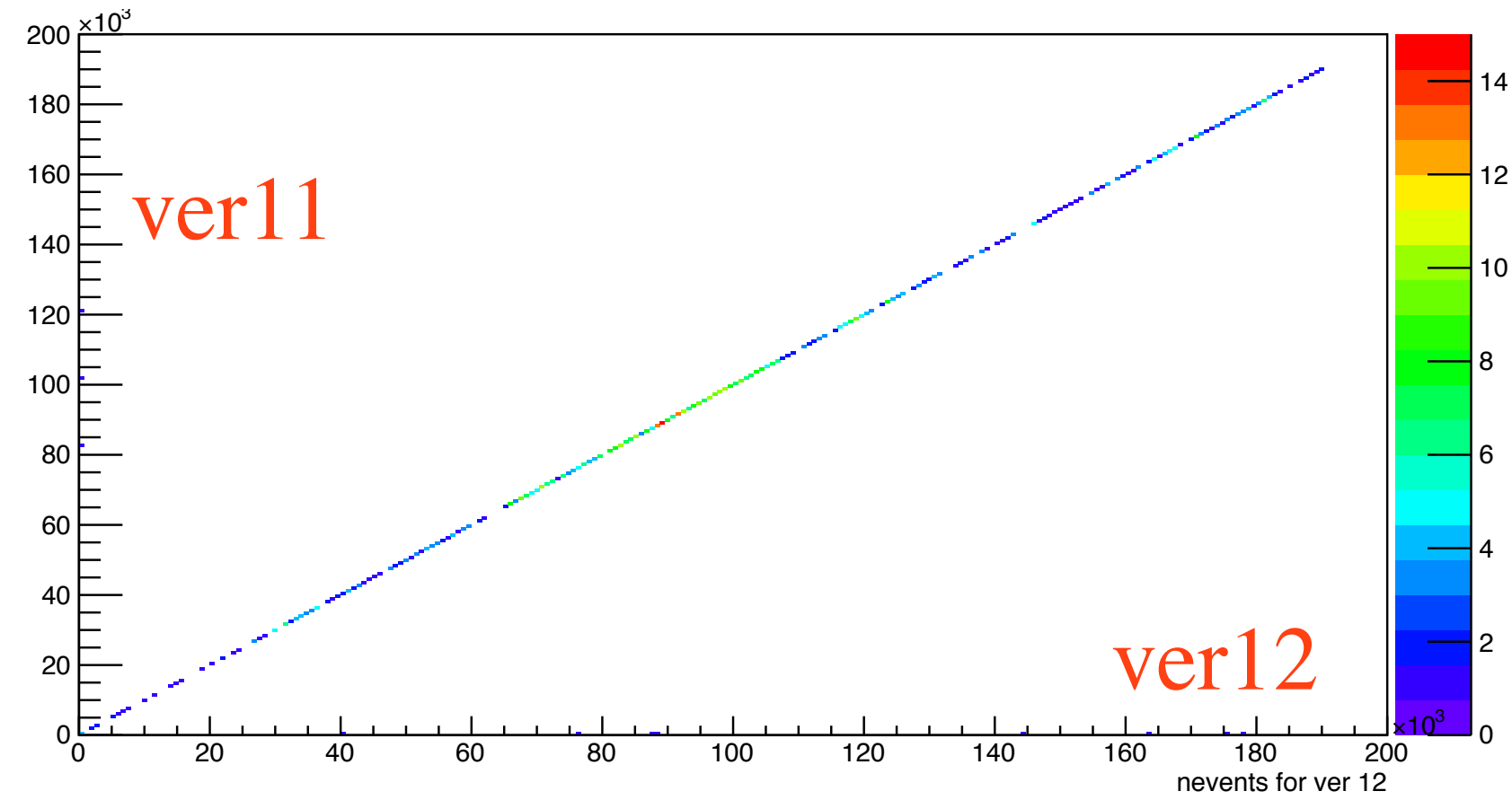
# Launch Analysis Webpages

- [https://halldweb.jlab.org/data\\_monitoring/launch\\_analysis/index.html](https://halldweb.jlab.org/data_monitoring/launch_analysis/index.html)
- Statistics for time, memory usage, times at each stage of job
- Comparison of run files for different launches (plugin time, memory usage, # events)
- Status of job for each run file for different launches

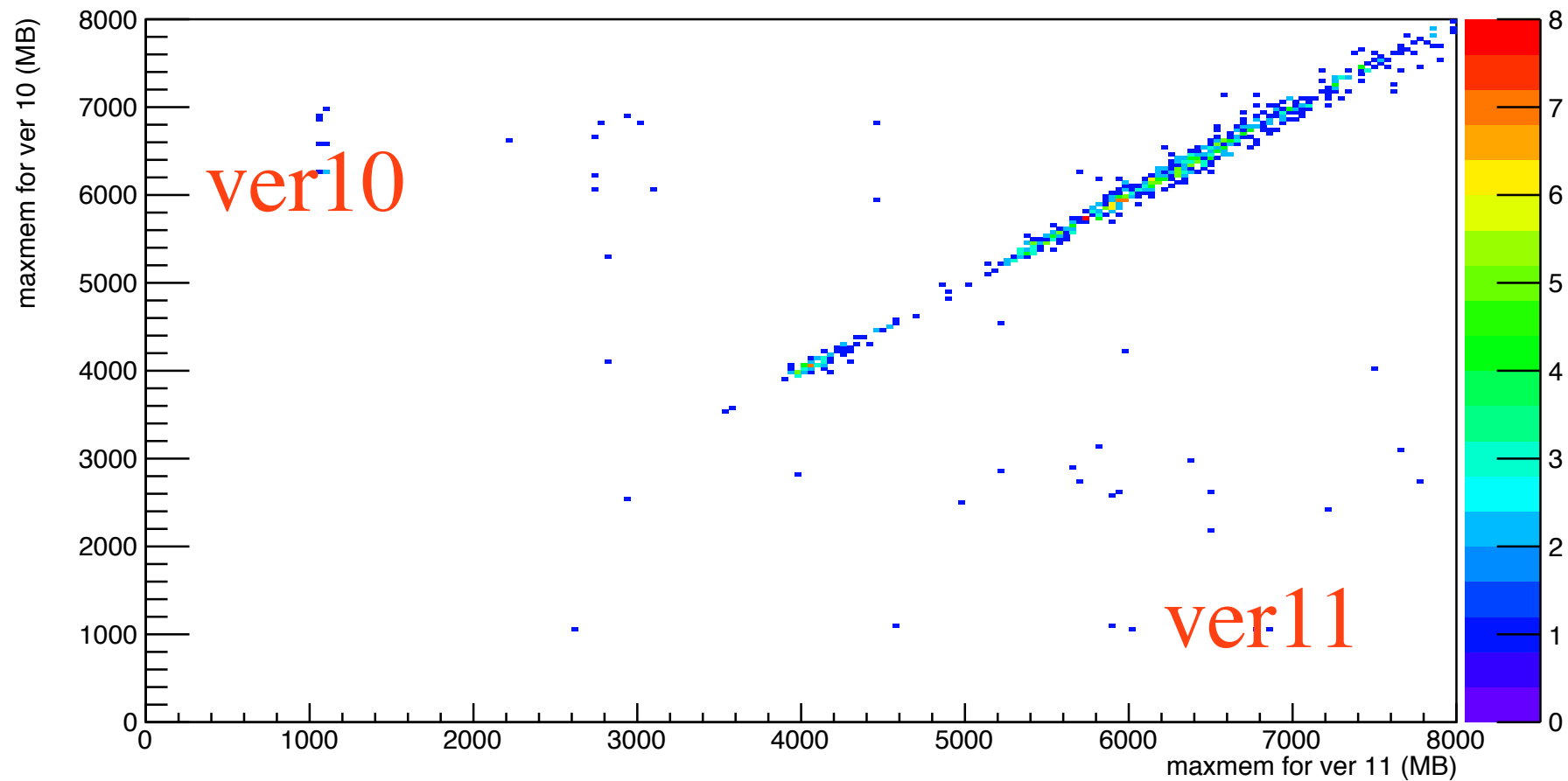
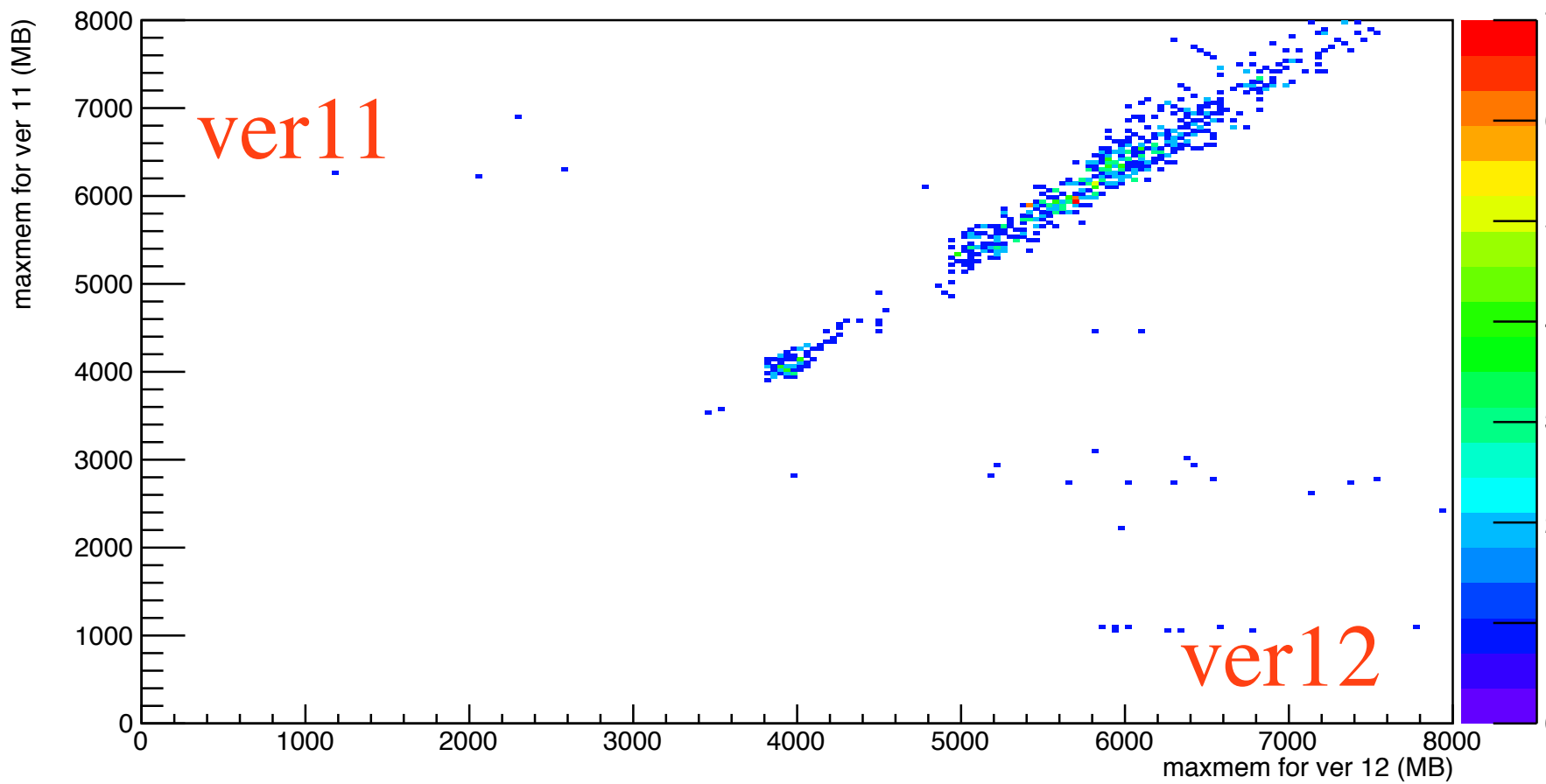
# Comparison of Launches in Same Job

- Differences in # events, memory usage for different launches
- Some due to changes in sim-recon, plugins, but some are due to job environment
- Launch jobs containing plugins from different launch iterations - compile, save hd\_root and plugins from different dates, set JANA\_CALIB\_CONTEXT
- Used code for ver12 (2015-03-19), ver11 (2015-02-27), ver10 (2015-02-10)
- Submitted 1216 jobs, 776 finished (others timed out or had resource errors)

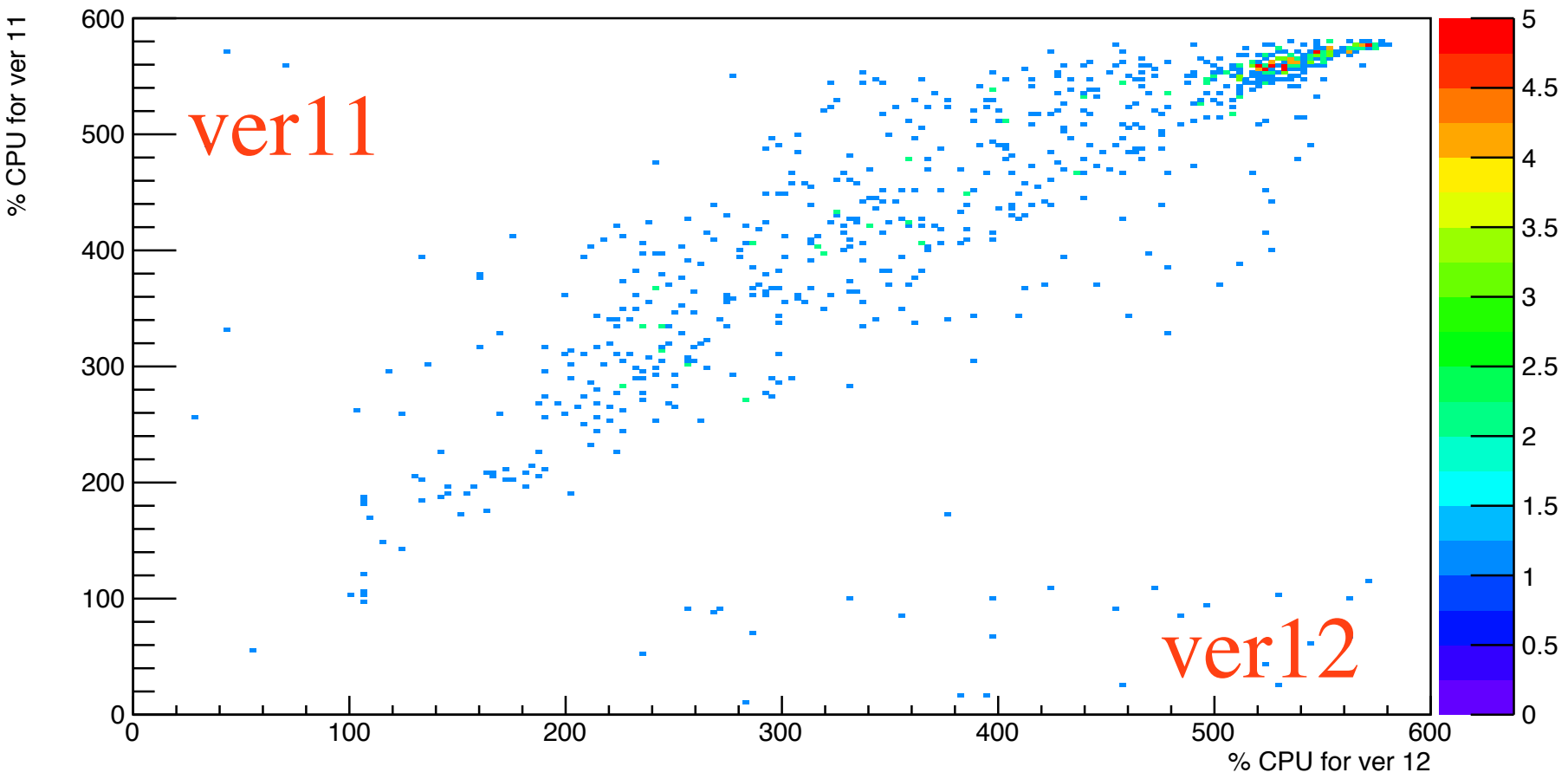
# # Events



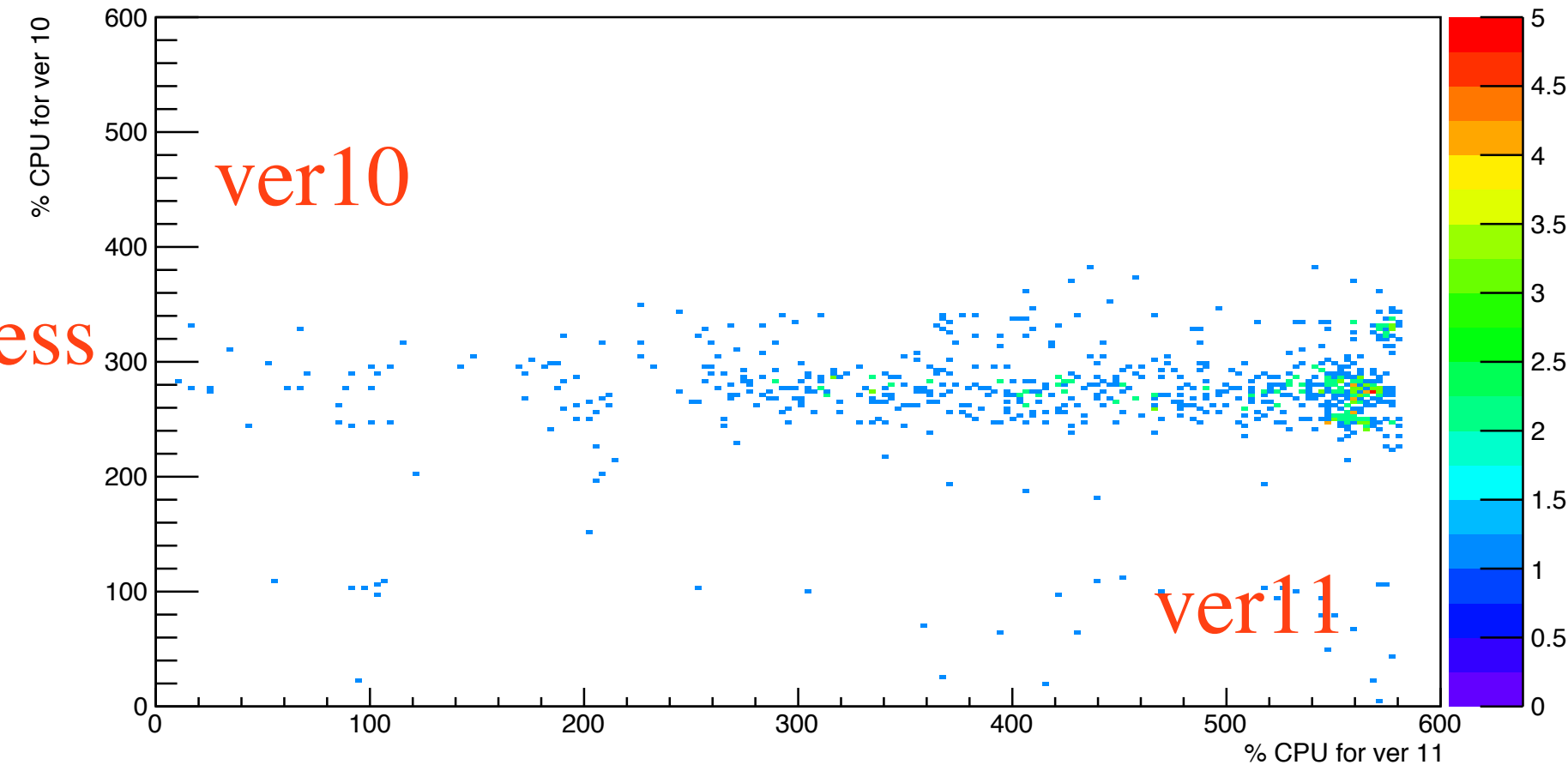
# Max Memory



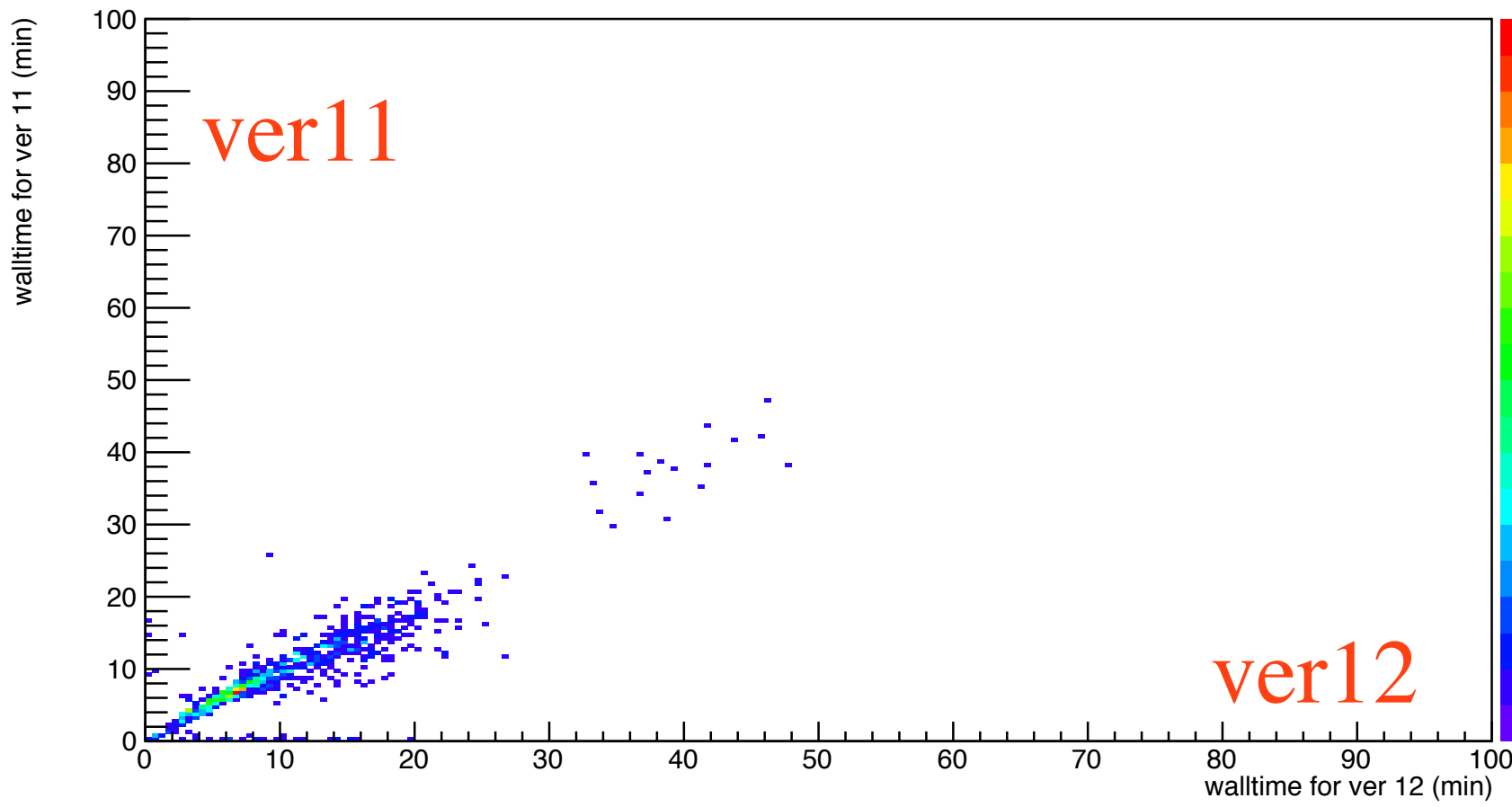
# % CPU



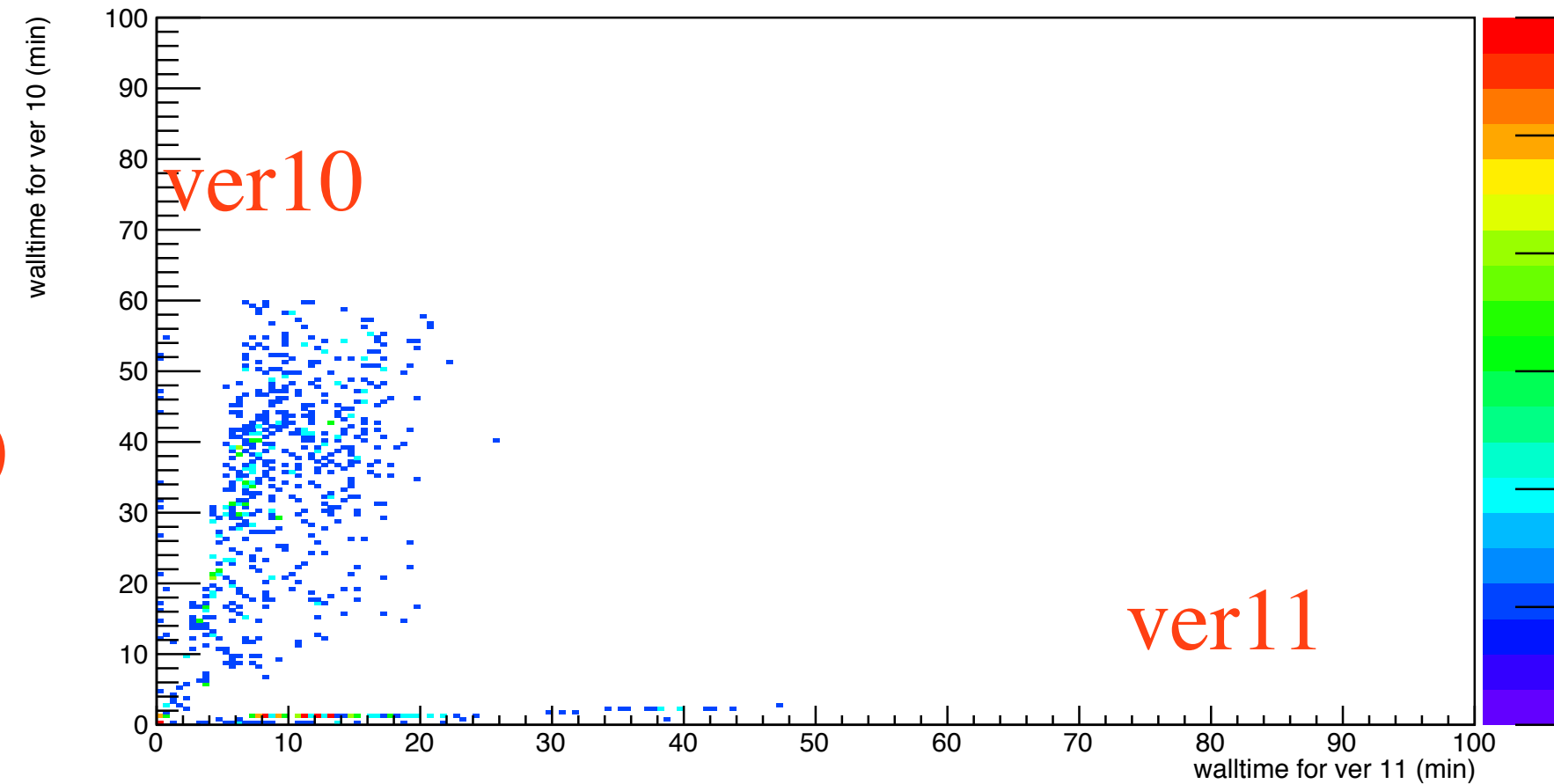
% CPU much less  
for ver10



# Wall time of Jobs



wall time much longer for ver10



# Moving Forward

- Possible to run different iterations of code by having executable, plugins, and `JANA_CALIB_CONTEXT` set
- `# events` changes for different iterations of code within same job
- Investigate whether this happens also for single-threaded processing
- Efficiency of plugins (% CPU) was much higher for vers 11, 12 - due to improvements in code, not environment
- Current offline monitor launch (ver13) is underway
- Integration of swif tools