

# CentOS65, Multithread

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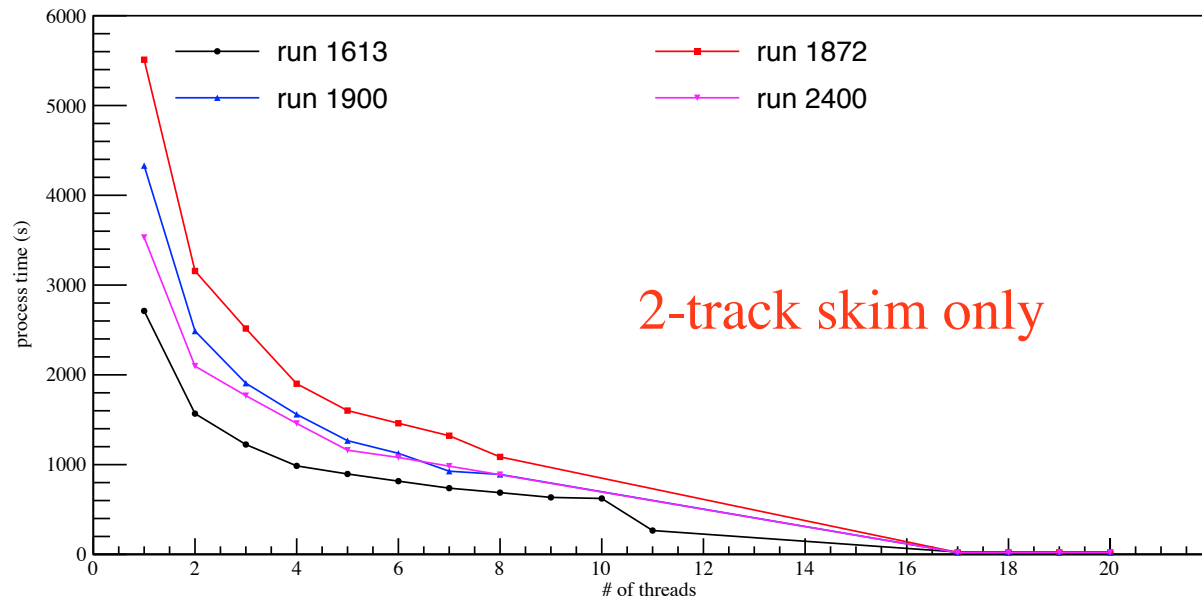
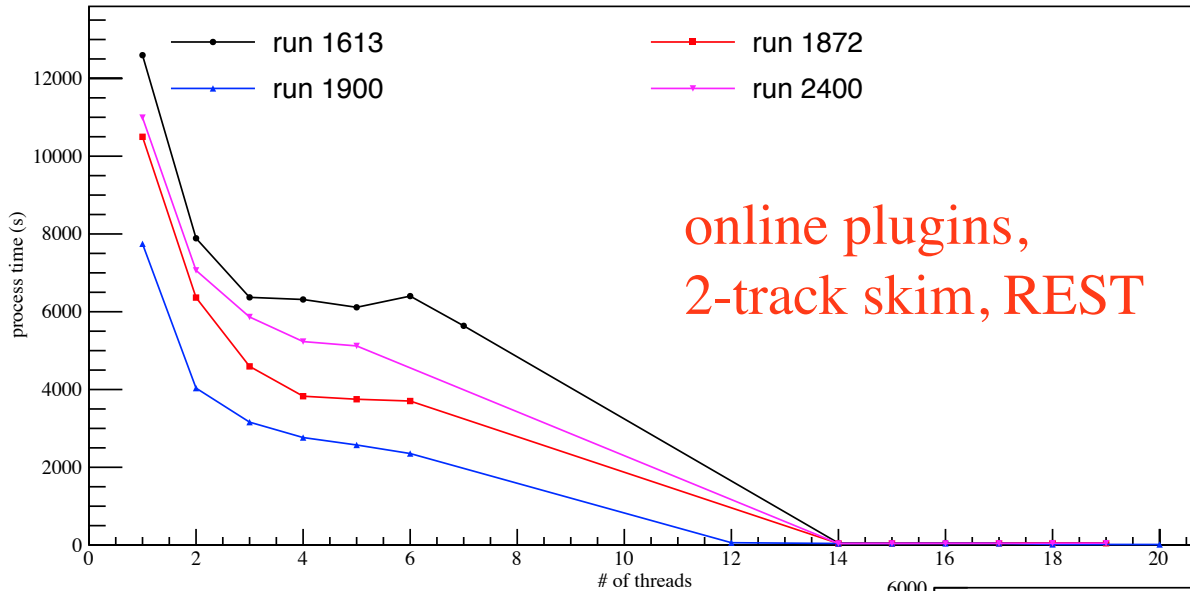
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# CentOS65

- Email went out last week advertising new CentOS machines
- Use OS name = centos65
- GlueX official build (from sourcing /home/gluex/setup\_jlab\_commissioning.csh) now works,

# Multithread Testing

- Tested multithread processing of jobs on centos65
- Time to process same file with N threads:



# Multithread Problems

- Not enough resources
  - Crashes without logfile when memory exceeds requested
  - Can ask up to 9GB, able to run 20 threads for skim job
- bad\_alloc
  - ```
terminate called after throwing an instance of 'std::bad_alloc'  
what(): std::bad_alloc
```
  - Happens when nthreads  $\approx 6$ , when still setting up
    - ```
17.0 events processed (27.0 events read) 0.0Hz (avg.: 0.0Hz)
```
  - Used to happen for weekly testing, but recently gone
  - So far can't replicate on ifarm65 (nthreads=20)
- output file sizes
  - Size of ROOT, evio, REST files are usually different
  - Need to check if physical content are same