

### Overview

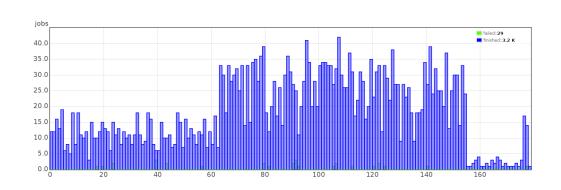


- Summary of Discussion at Hepsysman on proposal to pass back more information from pilot monitoring back to sites.
  - https://indico.cern.ch/event/318354/session/5/contribution/5/materi
- Significant support for the idea
  - We have some of this information already.
- Two concepts
  - Send results back and amalgamate across experiments
  - Communicate results to local monitoring systems



### Central monitoring

- Central monitoring
  - Simple for sites
- Panda monitoring already useful for some problems
  - Extend (or provide similar) to monitor pilots
  - Per worker node
  - Per CE
- Ideally across VOs
  - Including non-LHC





# Sending information to local site monitoring

- Put files on worker nodes
  - Wouldn't work if the WN disk is broken or full (one cause of failure).
  - Would be cleaned up if in /tmp etc by RAL
  - Would require checks to be written by sites.
- Send to syslog (Favoured option)
  - Option favoured by sites and receiving much of the discussion
  - Sites probably already monitoring syslog
    - Appears in /var/log/messages (where sysadmins look for problems)
    - Some monitoring systems pick up errors here already
    - Central logging a WLCG requirement

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## Syslog monitoring

- Must ensure appropriate levels are used
  - INFO, WARN, ERROR
  - Successful jobs: Could report with level INFO Further discussion needed to determine if this is desirable
- HTML like error codes + free form text liked (507 Insufficient storage in ATLASDATADISK or whatever))
  - http://en.wikipedia.org/wiki/List\_of\_HTTP\_status\_codes
  - This needs to be standardised across experiments
  - Sysadmins need to know what test was and how it failed
- Interface to sysadmin is syslog
  - VOs can send directly to syslog, or can use logger
  - If required (and not clear it is), machine features could be used to substitute a command other than logger but with same syntax

#### **Caution**



- Avoid this being used as a stick to beat sites
- Sites need to know what the test was attempting, and how it went wrong.

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#### Conclusions

- Lots of support from sites
- Central monitoring useful
- Local reporting via syslog considered better than dropping files on worker nodes
  - Easier to monitor
  - More likely to work