

Offline Monitoring Backend

- Major refactoring of offline monitoring backend
 - Current code was mainly developed during Fall 2014 run
 - Improved readability, maintainability
 - Cleaned up script output, improved logging to disk
- Speed improvements
 - Processing entire run period would take 24 - 48 hours on ifarm machine
 - Main offender - hadd.
 - Ex.: Merging ~200 files takes ~40 min
 - Easy solution: multithreading
 - Investigating faster alternatives
 - Remove some duplicated work, other minor improvements

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- Tested during latest monitoring run
 - Speed definitely improved. Memory footprint large, leaks being investigated.
 - Will investigate multithreaded behavior more closely.
 - Large runs are difficult to manage
 - N.B. Monitoring ifarm usage shows interesting behaviors
- Still adding more calibration information.
- Ready to monitor simulated data as well.