



uboone Online Monitor status update

Donatella Torretta, Nathaniel Tagg
Friday Status Meeting
May 1, 2015



Overview

- The uboone Online Monitor (OM) is a package written by Nathaniel Tagg, Otterbein College.
- Consists of three main parts:
 - Dispatcher (gets events from the assembler and MUST run on DAQ machines)
 - Integrator (unpacks data & makes histograms)
 - Lizard (graphic package that plots them)



Overview

- In the past weeks we had a bit of discussion w Nathaniel about how setting up the OM on ubdaq-prod-near1
- Fermilab Security issues prevented the implementation of Nathaniel's request of opening up port 80 (http/https) on ubdaq-prod-near1
- We then successfully tested Glenn's suggestion to implement a SOCKS ssh connection to ubdaq-prod-near1
 - possible from anywhere, from ROC West computers to your laptop (Firefox, Chrome)
 - Instructions on how to do this are available at: https://cdcv.s.fnal.gov/redmine/projects/uboone-operations/wiki/How_to_make_ssh_tunnels_to_ubdaq_internal_webservers
 - Control rooms PCs will be pre-setup by the DAQ group (uboone-rc-01 is ready)

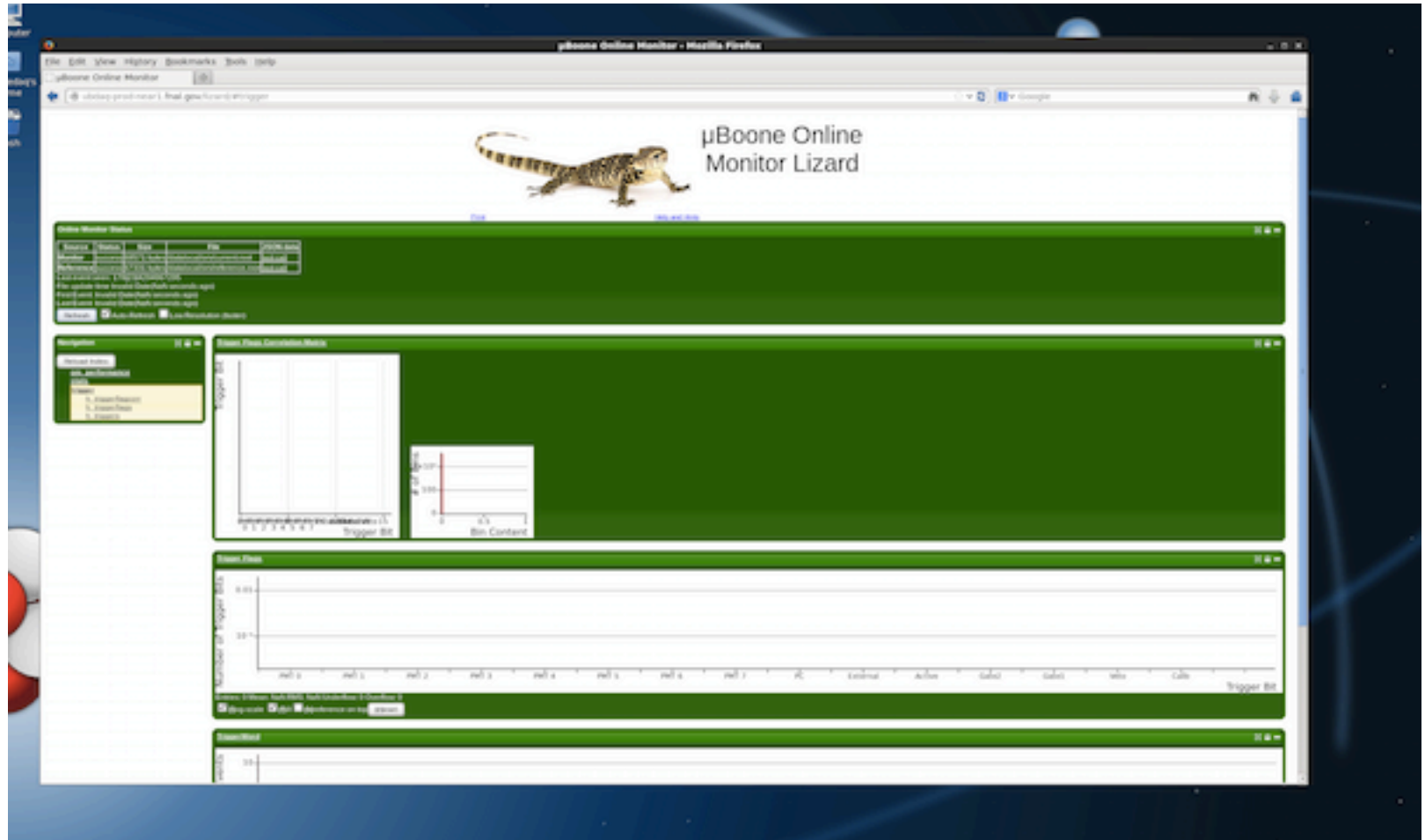


Integration tests with running DAQ

- Tested successfully this week on production systems with DAQ running on ALL SEBs and real data:
 - Took run 178
 - Root files were written on ubdaq-prod-near1 into /datalocal/om
 - OM Gui (Lizard) displayed the on-coming data !
- Need to check that all needed histograms (TPC, PMT, ...) are present and correct



Integration tests with running DAQ : Lizard (OM GUI)





Next/ In progress :

- Lizard (GUI)
 - Improve readability (fonts/display)
 - Add possibility to check archived root files
- Dispatcher/Integrator
 - Update code to use the new v6 datatypes package by Gennadiy
 - Add/correct histograms as needed