

Continuous Integration in NOvA


Alex Himmel

FIFE Workshop


June 21st, 2017

How We Use CI


- Runs triggered by commits.
 - 15 minute stand-off to pick up clusters of commits.
 - Uses standard build system
- Runs 1 event in a variety of standard jobs
 - Raw file reformatting
 - Reconstruction
 - Calibration
 - MC Generation
- Integrated into a Slack channel along with commit messages.
 - Makes it very quick to diagnose problems.

 **testbot success** APP 4:57 PM
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Jenkins Slave user
CI build of NOvA_CI_SRT workflow for slf6 Succeeded
CI build of NOvA_CI_SRT workflow for slf6 Succeeded NOvA-Art version: trunk Build numb..

 **spambot** APP 5:45 PM
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p-novaart@ccdcvsvm.fnal.gov
r25653 - trunk/CAFAAna/XSec
Author: slin Date: 2017-06-19 17:45:03 -0500 (Mon, 19 Jun 2017) New Revision: 25653 M..

 **testbot failure** APP 6:46 PM
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Jenkins Slave user
CI build of NOvA_CI_SRT workflow for slf6 Failed at phase ci_tests
CI build of NOvA_CI_SRT workflow for slf6 Failed at phase ci_tests Failures Warnings CI Tes...


 **spambot** APP 9:14 PM
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p-novaart@ccdcvsvm.fnal.gov
r25654 - in branches/R17-02-22-legacy-cafs-v1-br/CAFAAna: Sysys Vars data/xs
Author: jwolcott Date: 2017-06-19 21:14:34 -0500 (Mon, 19 Jun 2017) New Revision: 256..


 **testbot failure** APP 10:04 PM
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Jenkins Slave user
CI build of NOvA_CI_SRT workflow for slf6 Failed at phase ci_tests
CI build of NOvA_CI_SRT workflow for slf6 Failed at phase ci_tests Failures Warnings CI Tes...

Today

 **spambot** APP 2:13 AM
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p-novaart@ccdcvsvm.fnal.gov
r25655 - in trunk/CAFAAna/nue: . sysys sysys/ppfx
Author: bnayak Date: 2017-06-20 02:13:24 -0500 (Tue, 20 Jun 2017) New Revision: 2565...

 **testbot success** APP 3:03 AM
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Jenkins Slave user
CI build of NOvA_CI_SRT workflow for slf6 Succeeded
CI build of NOvA_CI_SRT workflow for slf6 Succeeded NOvA-Art version: trunk Build numb..

- CI has been a real success for us.
 - Has helped us diagnose and fix problems quickly.
 - We build the repository HEAD every night and it is *very* rare that it does not build and run successfully.
 - Avoid bugs when preparing for production releases.
 - This was a common problem in the 2015 production campaign, and lead us to make CI a high priority request.
 - Currently looking into expanding the suite of tests.
 - More specialized samples.
 - Expand to include DAQ and Trigger software suites
- Wishlist
 - One big one: reduce friction when adding new tests.
 - I think the key here may be to reduce the required choices that need to be made (directory structure, inputs, etc.)
 - I strongly support “sensible defaults” that can be overridden as a design scheme.