

LLNS Subcontract: B614665
Quarterly Report
POP: April 1st –June 30, 2015

Summary

For this quarter most of the work is done towards software infrastructure that is necessary for LLNL tools, and helping with UV-CDAT. Below is the list of tasks completed / ongoing.


Tasks

Continuous integration and testing system

- The whole testing infrastructure works on Gitlab. Pull requests from Github are ported as merge requests.
- Users type commands like ‘Do: test’ as comments on the merge request to run the test suite on multiple build slaves.



Dan Lipsa @danlipsa commented about 2 hours ago
Do: test

Developer  



Kitware Robot @kwrobot commented about 2 hours ago
Testing commands handed to buildbot.
Branch-at: [7442915e](#)



buildbot @buildbot commented about 2 hours ago
Your merge request has been queued for testing. You may view the test results on [CDash](#) or [Buildbot](#).
Branch-at: [7442915e](#)

Reporter  

- Build slaves deployed at LLNL and Kitware

Home	Grid	UV-CDAT	Builders	Buildslaves	About
* * login					
Grid View					
Kitware Open Source	UV-CDAT/uvcdat-mirror: uvcdatmirror: 7bd76dd4a2fe... in cdmsNCSTRING	UV-CDAT/uvcdat-mirror: uvcdatmirror: 521e513a9451... in master	UV-CDAT/uvcdat-mirror: uvcdatmirror: 91141a6bc512... in master	UV-CDAT/uvcdat-mirror: uvcdatmirror: 7442915ed9ad... in linestyle	UV-CDAT/uvcdat-mirror: uvcdatmirror: 6ee3e636a16d... in lgboutputdimensions-default
uvcdat-armadillo-linux-release-all (offline, plus 47)	failed build-n-test	failed build-n-test	failed build-n-test	failed build-n-test	failed build-n-test
uvcdat-crunchy-linux-release-all+gui					building
uvcdat-karma-linux-debug-default+gui (building)					
uvcdat-karma-linux-debug-lean+gui (idle, plus 1)	failed build-n-test	failed build-n-test	failed build-n-test	failed build-n-test	
uvcdat-macbot1-oss-release-default (offline, plus 106)					
uvcdat-macbot2-oss-release-all+gui (offline, plus 6)	failed				
uvcdat-neodymium-linux-debug-default (offline, plus 107)					
uvcdat-neodymium-max-debug+gui (offline, plus 107)					
uvcdat-oss-neo-ubuntu-release-default (offline, plus 6)	failed build-n-test				

- Github integration with GitRobot complete. Tested.

The screenshot shows a GitHub commit history with the following entries:

- sankhesh** commented 20 days ago (Owner): Do: test
- kwrobot01** commented 20 days ago (Collaborator): Testing commands handed to buildbot. Branch-at: [572896e](#)
- sankhesh** commented 20 days ago (Owner): Do: merge
- kwrobot01** commented 20 days ago (Collaborator): Branch successfully merged and pushed!
- sankhesh** merged commit [572896e](#) into [master](#) 20 days ago (2 checks passed). [View details](#)

- Existing buildbot ported to work with Github. Testing revealed some bugs that need to be fixed.

Documentation Improvements

- Created new documentation for vcs and uvcdat.
- Updating documentation to include deep-down details of VCS api.

Work planned for Fourth quarter

- Plot visualizations
 - Fix vcs label size and placements
 - Discuss, design and implement interactivity on 2D plots
 - Move to OpenGL2 backend for faster performance
- Infrastructure
 - Continue to improve testing
 - Prepare for UV-CDAT 3.0 release