

Rosetta Benchmark Server

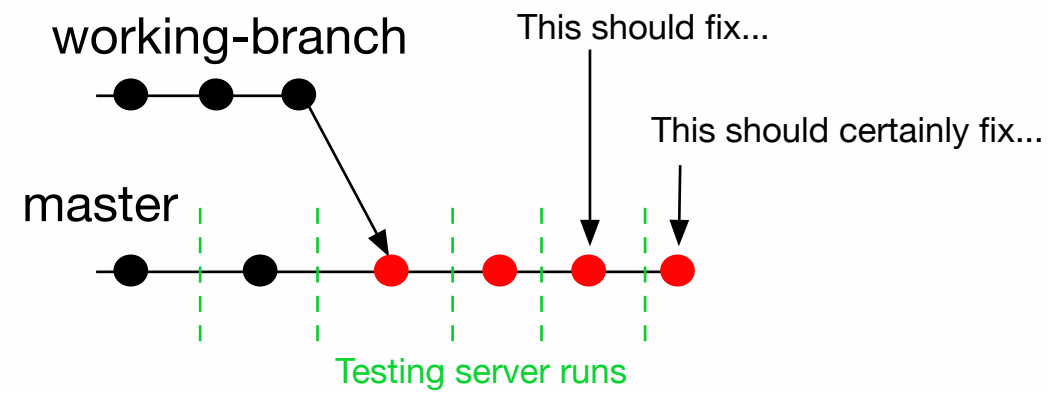
features overview and future directions

Sergey Lyskov GrayLab@JHU

Pro-active testing workflow

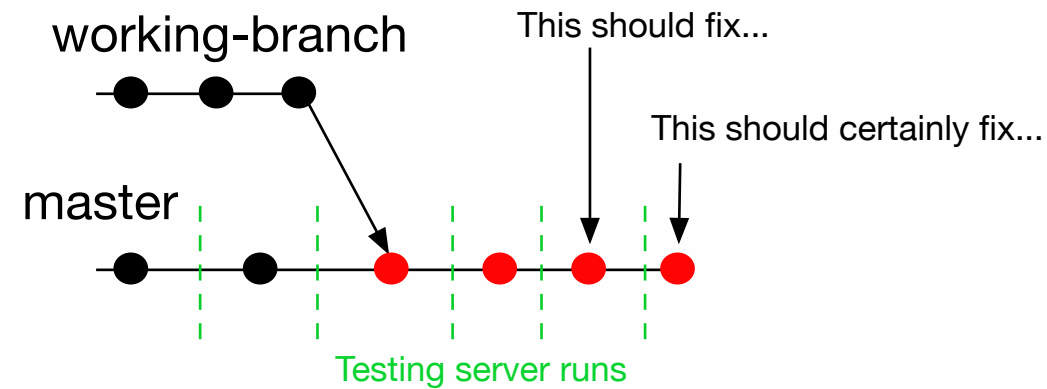
Pro-active testing workflow

Old workflow:

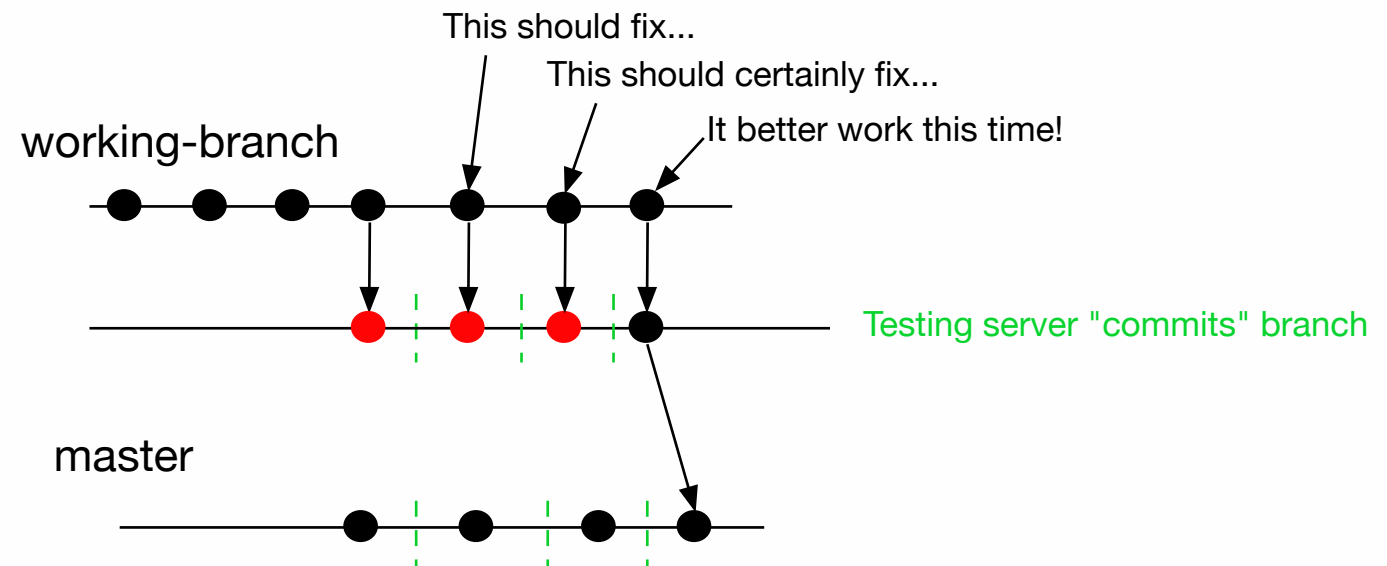


Pro-active testing workflow

Old workflow:



New workflow:



Demo

<http://benchmark.graylab.jhu.edu>

You can submit a single revision for testing before you merge it to the master branch

- Commit your changes to non-master branch
- Push changes to GitHub
- Open Submit page <http://benchmark.graylab.jhu.edu/submit> enter commit sha1 and select test you want to run
- Instead of revision sha1 you can also submit:
 - branch name
 - pull-request-id

Special tests and branch selector on Submit page

Release

☐ linux.release.PyRosetta.monolith

☐ linux.release.PyRosetta.namespace

☐ linux.release.binary

☐ mac.release.PyRosetta.monolith

☐ mac.release.PyRosetta.namespace

☐ mac.release.binary

☐ release.source

☐ ubuntu.release.PyRosetta.monolith

☐ ubuntu.release.PyRosetta.namesp

☐ ubuntu.release.binary

none

all

Schedule tests for branch:

commits

master

commits

select none

select all standard tests

select all


Run Tests for this Commit

Integration with GitHub Pull-Request system



Test Pull Request #52 Edit New issue


Open lyskov wants to merge 4 commits into `PyRosetta` from `sergey/test`

Conversation 1 Commits 4 Files changed 1 +3 -1

 lyskov commented 15 days ago

No description provided.

  Dummy commit

 rosetta-benchmark commented 15 days ago

Apply labels to this issue

ready|

✓ ☒ ready for testing

Assignee

No one assigned

Integration with GitHub Pull-Request system



● **Waiting to hear about a2ea624** — Queued for testing · [Details](#)

Merge with caution!

You can also merge branches on the [command line](#).



Merge pull request

	CCD Refactor: few more unit tests -- (as an aside: what the heck is c...	✗ e3ae979	
	typo fix	✗ 07800d6	Assignee
	merging in last good master state before pushing the BGB	✓ 844bdae	JWLabonte
Success: Tests passed with regression tests difference. MERGE WITH CAUTION!			

Integration with GitHub Pull-Request system



✖ Failed — Some build/unit tests got broken. DO NOT MERGE! · Details

Merge with caution!

You can also merge branches on the [command line](#).



 Merge pull request



✓ All is well — Tests passed with regression tests difference. MERGE WITH CAUTION! · Details

This pull request can be automatically merged.

You can also merge branches on the [command line](#).



 Merge pull request

Observers framework for Regression tests

- Add 'observers' text file to your integration tests dir
- Add lines with text: `branch1:email1 branch2:email2` ... for each branch you want to get for
- Example:
`master:sarel@weizmann.ac.il`
`master:glapidoth@gmail.com`

- De-couple observer info specification from TestServer code
- Allow to specify multiple observers for multiple branches
- If score/integration tests get renamed or copied observers info is preserved

RosettaLog@gmail.com <rosettalog@gmail.com>

Jul 22 (1 day ago) ☆

to sarel, glapidoth ▾

Test(s) [mac.clang.integration.splice_out](#), [linux.gcc.integration.debug.splice_out](#) got broken by following commit:



sarel committed [2b97188dd4adf678](#) [diff] to branch [master:57095](#) with commit message:

adding two integration tests for splice_in and splice_out for non-antibody cases

Tracking Custom Branches on Test Server:

- Testing server now tracks 5 branches
- We can customize which tests to run for each branch
- Could be very useful for a team of developers who work on the same project

Branch: master ▾ < 1 2 3 4 5 6 7 8 9 10 .. 42 >



- benchmark
- master
- PyRosetta
- release
- [rfalford12/mpframework_devel](#)

er-Fay
aa3a7cd8f39J
ted commit: [Q code diff](#)
4:59:00

	linux.clang	linux.gcc	mac.clang
debug	■	■	■
release	■	■	■
unit	■	■	■

Fixing signed/unsigned integer comparison (that I guess gcc doesn't catch?)

- Julia Koehler and Rebecca Alford ([rfalford12/mpframework_devel](#)) wrote:

Benchmark-2 has been a really great resource for developing the membrane code. Frequently running all of the build, unit and integration tests helps us to keep our development compatible with master. Benchmark-2 is also a great collaboration tool - it helps Julia and I keep a running log of changes, and more easily merge our contributions.

News since last summer:

Daemon	Status	Test Running	Message	Time
Fujii	[ALIVE]	「master:57583」 mac.gcc.PyRosetta.unit	Running test PyRosetta.unit...	2015-02-03 12:40
Glass	[ALIVE]		Waiting for a next revision to be committed...	2015-02-03 13:59
Haruka	[ALIVE]	「master:57583」 windows.cl.PyRosetta.build	Running test PyRosetta.build...	2015-02-03 11:51
Hikaru	[ALIVE]		Waiting for a next revision to be committed...	2015-02-03 14:02
Hojo-1	[ALIVE]		Waiting for a next revision to be committed...	2015-02-03 14:02
Hojo-2	[ALIVE]		Waiting for a next revision to be committed...	2015-02-03 14:02
Revision	[ALIVE]			2015-02-03 14:02
Rosetta	[ALIVE]	「master:57583」 linux.gcc.static.performance	Running test performance...	2015-02-03 13:33
Takeshi	[ALIVE]		Waiting for a next revision to be committed...	2015-02-03 14:02

News since last summer:

Daemon	Status	Test Running	Message	Time
Fujii	[ALIVE]	「master:57583」 mac.gcc.PyRosetta.unit	Running test PyRosetta.unit...	2015-02-03 12:40
Glass	[ALIVE]		Waiting for a next revision to be committed...	2015-02-03 13:59
Haruka	[ALIVE]	「master:57583」 windows.cl.PyRosetta.build	Running test PyRosetta.build...	2015-02-03 11:51
Hikaru	[ALIVE]		Waiting for a next revision to be committed...	2015-02-03 14:02
Hojo-1	[ALIVE]		Waiting for a next revision to be committed...	2015-02-03 14:02
Hojo-2	[ALIVE]		Waiting for a next revision to be committed...	2015-02-03 14:02
Revision	[ALIVE]			2015-02-03 14:02
Rosetta	[ALIVE]	「master:57583」 linux.gcc.static.performance	Running test performance...	2015-02-03 13:33
Takeshi	[ALIVE]		Waiting for a next revision to be committed...	2015-02-03 14:02

- 9 machines now work on tests (was ~3 just this summer!)

News since last summer:

Daemon	Status	Test Running	Message	Time
Fujii	[ALIVE]	「master:57583」 mac.gcc.PyRosetta.unit	Running test PyRosetta.unit...	2015-02-03 12:40
Glass	[ALIVE]		Waiting for a next revision to be committed...	2015-02-03 13:59
Haruka	[ALIVE]	「master:57583」 windows.cl.PyRosetta.build	Running test PyRosetta.build...	2015-02-03 11:51
Hikaru	[ALIVE]		Waiting for a next revision to be committed...	2015-02-03 14:02
Hojo-1	[ALIVE]		Waiting for a next revision to be committed...	2015-02-03 14:02
Hojo-2	[ALIVE]		Waiting for a next revision to be committed...	2015-02-03 14:02
Revision	[ALIVE]			2015-02-03 14:02
Rosetta	[ALIVE]	「master:57583」 linux.gcc.static.performance	Running test performance...	2015-02-03 13:33
Takeshi	[ALIVE]		Waiting for a next revision to be committed...	2015-02-03 14:02

- 9 machines now work on tests (was ~3 just this summer!)
- We upgraded compilers to GCC-4.8, Clang-3.4 and created the protocol of adding new machines to the pool.

News since last summer:

Daemon	Status	Test Running	Message	Time
Fujii	[ALIVE]	「master:57583」 mac.gcc.PyRosetta.unit	Running test PyRosetta.unit...	2015-02-03 12:40
Glass	[ALIVE]		Waiting for a next revision to be committed...	2015-02-03 13:59
Haruka	[ALIVE]	「master:57583」 windows.cl.PyRosetta.build	Running test PyRosetta.build...	2015-02-03 11:51
Hikaru	[ALIVE]		Waiting for a next revision to be committed...	2015-02-03 14:02
Hojo-1	[ALIVE]		Waiting for a next revision to be committed...	2015-02-03 14:02
Hojo-2	[ALIVE]		Waiting for a next revision to be committed...	2015-02-03 14:02
Revision	[ALIVE]			2015-02-03 14:02
Rosetta	[ALIVE]	「master:57583」 linux.gcc.static.performance	Running test performance...	2015-02-03 13:33
Takeshi	[ALIVE]		Waiting for a next revision to be committed...	2015-02-03 14:02

- 9 machines now work on tests (was ~3 just this summer!)
- We upgraded compilers to GCC-4.8, Clang-3.4 and created the protocol of adding new machines to the pool.
- We finally finished our cluster upgrade and now i work on moving cluster tests to Benchmark-2 platform

News since last summer:

Daemon	Status	Test Running	Message	Time
Fujii	[ALIVE]	<code>「master:57583」 mac.gcc.PyRosetta.unit</code>	Running test PyRosetta.unit...	2015-02-03 12:40
Glass	[ALIVE]		Waiting for a next revision to be committed...	2015-02-03 13:59
Haruka	[ALIVE]	<code>「master:57583」 windows.cl.PyRosetta.build</code>	Running test PyRosetta.build...	2015-02-03 11:51
Hikaru	[ALIVE]		Waiting for a next revision to be committed...	2015-02-03 14:02
Hojo-1	[ALIVE]		Waiting for a next revision to be committed...	2015-02-03 14:02
Hojo-2	[ALIVE]		Waiting for a next revision to be committed...	2015-02-03 14:02
Revision	[ALIVE]			2015-02-03 14:02
Rosetta	[ALIVE]	<code>「master:57583」 linux.gcc.static.performance</code>	Running test performance...	2015-02-03 13:33
Takeshi	[ALIVE]		Waiting for a next revision to be committed...	2015-02-03 14:02

- 9 machines now work on tests (was ~3 just this summer!)
- We upgraded compilers to GCC-4.8, Clang-3.4 and created the protocol of adding new machines to the pool.
- We finally finished our cluster upgrade and now i work on moving cluster tests to Benchmark-2 platform
- New release system. Rosetta-source, Rosetta-binaries and PyRosetta releases are available as tar.bz2 archives and Git repositories. And we can build release packages for custom commits on user request.

Queue Page <http://benchmark.graylab.jhu.edu/queue>

Daemon	Status	Test Running	Message	Time
Fujii	[ALIVE]	「benchmark:102」 mac.gcc.PyRosetta.unit	Running test PyRosetta.unit...	2015-02-04 14:55
Glass	[ALIVE]		Waiting for a next revision to be committed...	2015-02-04 15:23
Haruka	[ALIVE]	「master:57584」 windows.cl.PyRosetta.build	Running test PyRosetta.build...	2015-02-04 15:03
Hikaru	[ALIVE]	「PyRosetta:96」 mac.gcc.PyRosetta.unit	Running test PyRosetta.unit...	2015-02-04 14:46
Hojo-1	[ALIVE]	「benchmark:102」 linux.gcc.mpi.build.debug	Running test build.debug...	2015-02-04 15:22
Hojo-2	[ALIVE]	「PyRosetta:97」 linux.gcc.PyRosetta.unit	Running test PyRosetta.unit...	2015-02-04 14:35
Revision	[ALIVE]		Scheduling tests for revision master:57584	2015-02-04 15:24
Rosetta	[ALIVE]	「benchmark:103」 linux.gcc.build.release	Running test build.release...	2015-02-04 14:43
Takeshi	[ALIVE]	「PyRosetta:96」 linux.gcc.PyRosetta.unit	Running test PyRosetta.unit...	2015-02-04 14:34

Detailed Daemons Info 「click to collapse/expand」

Current Test Queue

Priority	Revision	Test	Queued Time
2000	「benchmark:102」 by Julia Koehler Leman	linux.gcc.static.build.release	2015-02-04 13:17
2000	「benchmark:102」 by Julia Koehler Leman	linux.gcc.static.performance	2015-02-04 13:17
2000	「benchmark:102」 by Julia Koehler Leman	linux.clang.mysql.build.debug	2015-02-04 13:17
2000	「benchmark:102」 by Julia Koehler Leman	linux.clang.postgres.build.debug	2015-02-04 13:17
2000	「benchmark:102」 by Julia Koehler Leman	mac.clang.opencl.build.debug	2015-02-04 13:17

It is now possible to develop and debug new tests locally (including cluster tests)

- ‘benchmark.py’ script emulates testing server API

```
% cd main/tests/benchmark
% ./benchmark.py -jN release.source
```
- See `main/tests/benchmark/tests/*` for code examples. Including the implementation of ‘release’ scripts and tests that use HPC (performance benchmark) runs.

Topics for discussion:

- What should we do with Performance benchmark false alarms?
- Revert policy: Should we revert pushes to master that broke things? (should this happened 'automatically' without consulting the author?)

Future Directions

Future Directions

- New dedicated machine for Window.PyRosetta builds is ordered and expected to arrive by the end of Feb 2015

Future Directions

- New dedicated machine for Window.PyRosetta builds is ordered and expected to arrive by the end of Feb 2015
- First version of HPC driver is now in master (and “Performance” test already uses it). Next steps:

Future Directions

- New dedicated machine for Window.PyRosetta builds is ordered and expected to arrive by the end of Feb 2015
- First version of HPC driver is now in master (and “Performance” test already uses it). Next steps:
 - Move all our Scientific tests to Benchmark-2 and refactor them along the way.

Future Directions

- New dedicated machine for Window.PyRosetta builds is ordered and expected to arrive by the end of Feb 2015
- First version of HPC driver is now in master (and “Performance” test already uses it). Next steps:
 - Move all our Scientific tests to Benchmark-2 and refactor them along the way.
 - Move Profile tests to Benchmark-2

Future Directions

- New dedicated machine for Window.PyRosetta builds is ordered and expected to arrive by the end of Feb 2015
- First version of HPC driver is now in master (and “Performance” test already uses it). Next steps:
 - Move all our Scientific tests to Benchmark-2 and refactor them along the way.
 - Move Profile tests to Benchmark-2
- Implement binary search for best-effort tests

**Your feedback and
suggestions are
welcome!**

Thank you!

<http://benchmark.graylab.jhu.edu/submit>

Submit Custom Revision for Testing

65520983418baf5



Committed by: 「Labonte」

GitHub commit link: 「65520983418baf54c31541a61837c364d777345f」

Commit date: 2014-07-22T21:31:04Z

ResidueProperties: improvements to auto-code-generation script

update_residue_properties.py now...

...only re-writes the files if changes have occurred,

...ignores duplicated properties, and

...is more modular.

Unit test status: Not Run

Integration test status: Not Run

Rosetta Build Tests

- ☐ linux.clang.build.debug
- ☐ linux.gcc.build.debug
- ☐ mac.clang.build.debug
- ☐ static

- ☐ linux.clang.build.release
- ☐ linux.gcc.build.release
- ☐ mac.clang.build.release

none all

Code Integrity Tests

- ☐ header only
- ☐ library levels

none all

Unit Tests

- ☐ linux.clang.unit
- ☐ mac.clang.unit
- ☐ linux.gcc.unit

none all

Regression Tests

- ☐ integration
- ☐ score

none all

PyRosetta Tests

- ☐ linux.PyRosetta
- ☐ windows.PyRosetta
- ☐ mac.PyRosetta


none all

Other Tests

- ☐ mpi
- ☐ postgres
- ☐ mysql



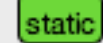
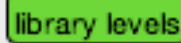


none all

Now we can comment on revision:




branch: `_commits_` «10»
Committed by: [Labonte](#)
GitHub commit link: «[912b2aef1a6c1606](#)»
Commit date: 2014-07-17 01:53:29


	linux.clang	linux.gcc	mac.clang	mac.PyRosetta	mac.gcc.build.PyRosetta	windows.PyRosetta
debug						
release						
unit						




How the hell did that entire file get wiped?



Labonte 1 week
Sergey, I don't think the new integration tests are compared to the ref from when I branched from master.



Rosetta Benchmark 0 seconds
They compared to latest successful run from the master (i.e. run where build did not fail)



- So we can 'add' info to accidental commit messages
- And we can comment on test results and such