

ValidAlloy

A tool for validating Alloy specifications using test-case generation

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Outline

- 1 Recalling Previous Milestones
 - Work Done in Previous Milestones
 - Objectives Proposed
- 2 Git Commands
- 3 Future Work

Work Done in Previous Milestones

- Built Workbench capable of:
 - Generate instances of our git model;
 - Compare results from an actual git command with the expected from the model;
 - Store artifacts for analysis(Alloy instance/logs/etc).
- Modeled add and rm commands.
- Found a bug on rm.

Objectives Proposed

- Model more git commands.
- Improve the git model.
- Find more git bugs.

Objectives Proposed

- Model more git commands(modeled commit, and started branch).
- Improve the git model.(refined remove).
- Find more git bugs.(0 bugs found).

Git Commands

- Our new approach to git rm revolved around negating some of git rm man pages pre-conditions.
 - run git rm with both pre-conditions holding true;
 - negated one alternatively while the other held true;
 - test with both pre-conditions being false.
- About git comit and git branch: we could not find any bug yet on any of these commands.

Future Work

- Model more git commands.
- Improve the git model.
- Find more git bugs.