Improve performance and usability of BasicAer

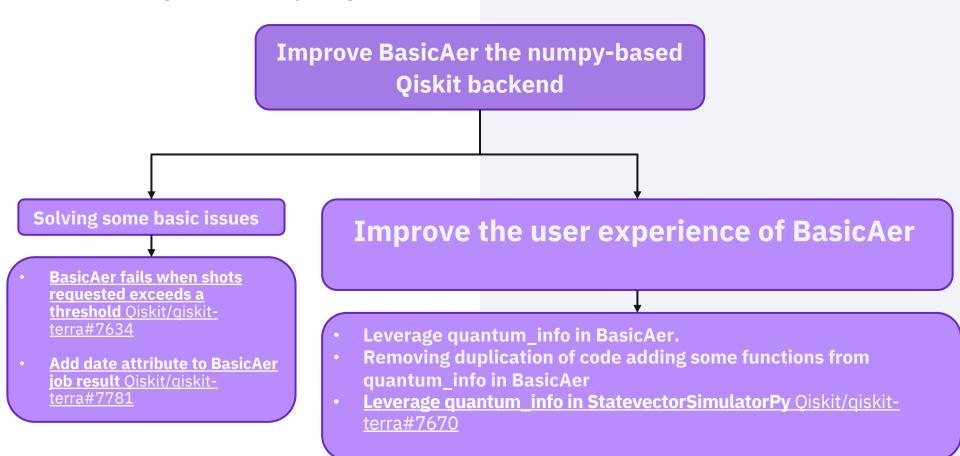


Mentee: Alejandro Montanez

Mentor: Kevin J. Sung

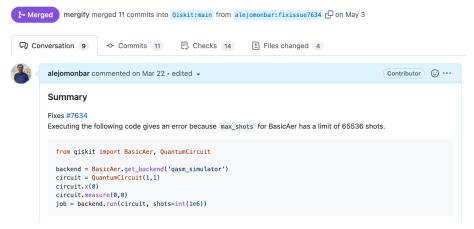
Summary of the project

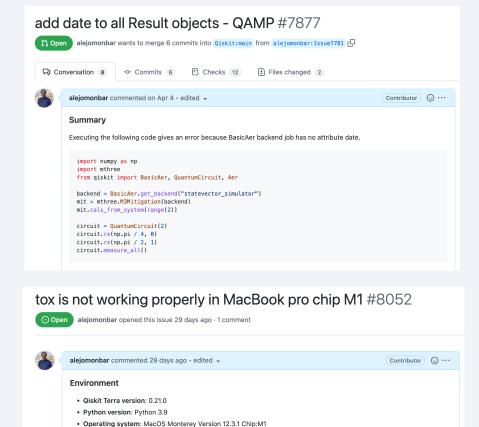




Pull request of basic Issues

Remove BasicAer shot limit - QAMP #7801





When trying to contribute I couldn't execute the command 'tox' to test the changes of a new pull request. They only work on

What is happening?

How can we reproduce the issue?

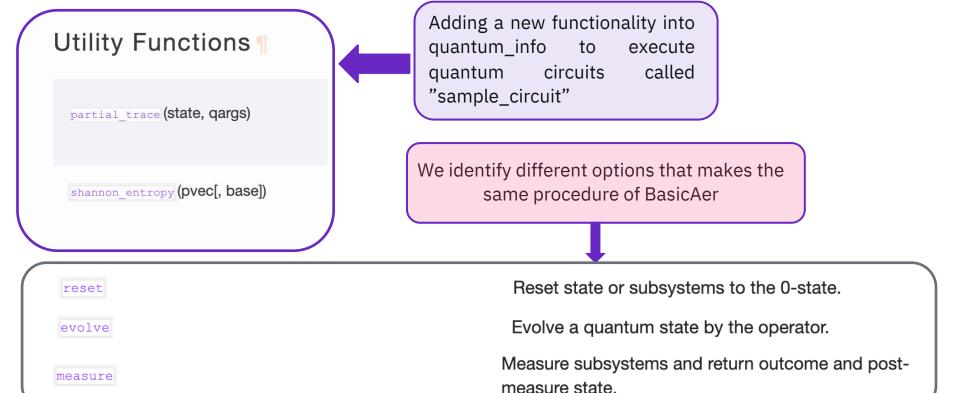
executing on MacBook with M1 Chip.

some CPUs.

on terminal run tox

Improving the user experience of BasicAer





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