

Feedback Questionnaire:

Name: Aaron Tse – Team 12

This survey aims to understand the utility of the tool in understanding the energy consumption profile.

Goal: We want to understand how useful the tool is in helping developers recognize the effect of code changes on energy consumption. More specifically we are interesting in investigating the effectiveness of the tool in identifying the system calls associated with the energy-consumption change and the corresponding code changes.

1. Identify a code change that **you think** may cause significantly different system calls and, as a result, may change the energy-consumption of the application.

Please write your code in format provided below:

Previous version SHA(Commit ID): 7493333962503b854be5464d32c8d46b9dfa5764
Changed Version SHA(Commit ID): 87b87cc5a722e7ed24282e0c56ao8bbe62b14f56

PS: To check a repo's current commit ID, run: `git log --format="%H" -n 1`
or check it on Github page of your repository in the commits section.

Filename: OctoAsk

Code snippet: TA said wasn't required

2. Please comment on the code segment and system calls identified **by the tool** to have changed significantly, energy consumption wise based on versions in previous Q1.

Please write your code in format provided below:

Previous version SHA(Commit ID): 7493333962503b854be5464d32c8d46b9dfa5764
Changed Version SHA(Commit ID): 87b87cc5a722e7ed24282e0c56ao8bbe62b14f56

PS: To check a repo's current commit ID, run: `git log --format="%H" -n 1`
or check it on Github page of your repository in the commits section.

Code displayed by the tool--

System call:

%Change in system call invocation(from the table in report generated by tool):

Filename: OctoAsk

Code snippet: TA said wasn't required

The tool could not identify any of the "Associated code

3. “The tool is able to identify the code associated with the change in system calls.” How much do you agree with the above statement?

☐ Strongly Agree
☒ Agree
☐ Not Sure
☐ Disagree
☐ Strongly Disagree

4. In your opinion, how well does the tool predict whether a source-code change affects energy consumption?

Please tick one of the following:

<input type="checkbox"/> Most of the time	[~80-100%]
<input checked="" type="checkbox"/> Regularly	[~51-80%]
<input type="checkbox"/> Sometimes	[~20-49%]
<input type="checkbox"/> Occasionally	[~0-20%]

Please explain your answer; we would like to hear more about your experience with tool in order to improve its usefulness.

We tried 3 sets of commits, 2 where we expected there to be no significant changes in energy (2 back to back commits) and 1 where we expected there to be significant changes (integration of elastic search) in energy and the tool's results matched our expectations. However, the tool was unable to analyze the code snippets/function calls, instead stating that “No associated code could be found” so we are unfortunately unable to provide a more detailed assessment due to the fact that no further information was provided by the tool.