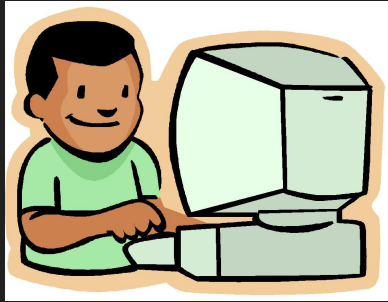


Tock HW CI

Arvin Lin
Jack Sheridan
Jefferson Chien

Problem Overview



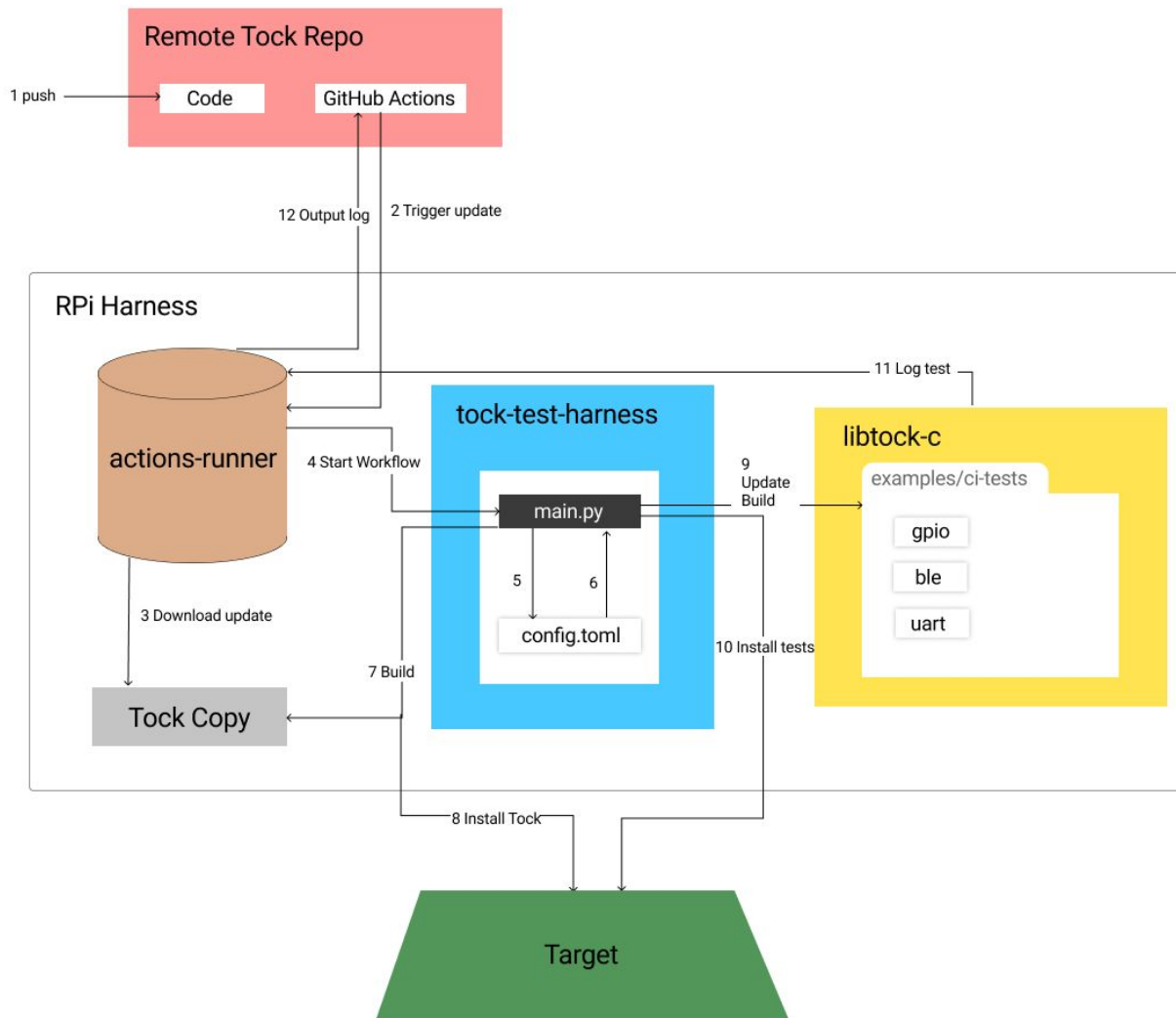


Update Tock



Real Hardware
Test Results





Demo

The screenshot shows a GitHub Actions workflow run for the repository 'goodoomoodoo/tock@bebb706'. The workflow is named 'Submit gpio test demo'. The left sidebar shows the 'Summary' tab and a list of jobs with 'build' selected. The main area displays the 'build' job logs, which include a search bar and a list of steps. The 'Build' step is expanded, showing a series of compilation commands and their outputs. The logs indicate that the build was successful, with the final output being a binary file 'nrf52840dk.bin'.

Submit gpio test demo - goodoomoodoo/tock@bebb706

tock/best.config.toml at master · goodoomoodoo/tock

Summary

Jobs

- build

build

Started 1m 42s ago

Search logs

Run actions/checkout@v2 2s

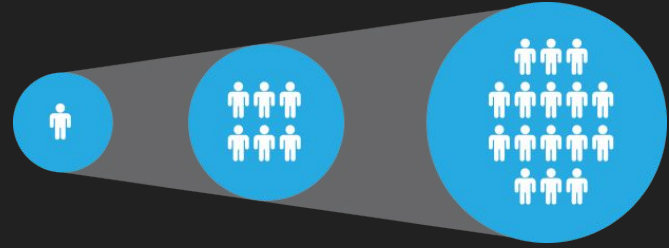
Build 1m 38s

```
1  Run python3 ~/tock-test-harness/lib/main.py -b
2  python3 ~/tock-test-harness/lib/main.py -b
3  shell: /usr/bin/bash -e {0}
4  env:
5    CARGO_TERM_COLOR: always
6  2021-05-28 04:34:25,116 - Runner - INFO - Initiating compilation.
7  Compiling tock-cells v0.1.0 (/home/ubuntu/actions-runner/_work/tock/tock/libraries/tock-cells)
8  Compiling tock-registers v0.6.0 (/home/ubuntu/actions-runner/_work/tock/tock/libraries/tock-register-interface)
9  Compiling tock-tbf v0.1.0 (/home/ubuntu/actions-runner/_work/tock/tock/libraries/tock-tbf)
10 Compiling enum_primitive v0.1.0 (/home/ubuntu/actions-runner/_work/tock/tock/libraries/enum_primitive)
11 Compiling tickv v0.1.0 (/home/ubuntu/actions-runner/_work/tock/tock/libraries/tickv)
12 Compiling nrf52840dk v0.1.0 (/home/ubuntu/actions-runner/_work/tock/tock/boards/nordic/nrf52840dk)
13 Compiling kernel v0.1.0 (/home/ubuntu/actions-runner/_work/tock/tock/kernel)
14 Compiling cortexm v0.1.0 (/home/ubuntu/actions-runner/_work/tock/tock/arch/cortex-m)
15 Compiling nrf5x v0.1.0 (/home/ubuntu/actions-runner/_work/tock/tock/chips/nrf5x)
16 Compiling capsules v0.1.0 (/home/ubuntu/actions-runner/_work/tock/tock/capsules)
17 Compiling cortexm4 v0.1.0 (/home/ubuntu/actions-runner/_work/tock/tock/arch/cortex-m4)
18 Compiling nrf52 v0.1.0 (/home/ubuntu/actions-runner/_work/tock/tock/chips/nrf52)
19 Compiling nrf52840 v0.1.0 (/home/ubuntu/actions-runner/_work/tock/tock/chips/nrf52840)
20 Compiling components v0.1.0 (/home/ubuntu/actions-runner/_work/tock/tock/boards/components)
21 Compiling nrf52_components v0.1.0 (/home/ubuntu/actions-runner/_work/tock/tock/boards/nordic/nrf52_components)
22 Finished release [optimized + debuginfo] target(s) in 1m 33s
23 text data bss dec hex filename
24 159745 68 24508 184321 2d001 /home/ubuntu/actions-runner/_work/tock/tock/target/thumbv7em-none-eabi/release/nrf52840dk
25 55814137ca2121a1aef4b04990d0ea785ffc7f48fdba131e581448e5ead0a9d5 /home/ubuntu/actions-runner/_work/tock/tock/target/thumbv7em-none-eabi/release/nrf52840dk.bin
```

Post Run actions/checkout@v2

Post job cleanup.

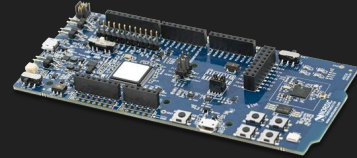
Major Challenges



The Future



Cute User Interface
web portal



Works when # of
boards $n > 1$



Boot Control

Conclusion



Pat Pannuto 9:38 AM

@Arvin Lin @Jack Sheridan @Jefferson Chien — awesome work! Thank you for presenting, and doing a live demo!! (A scary, hard, and impressive thing to do!)

Can you share the slides from your presentation here?



Arvin Lin 9:43 AM

Thank you!

https://docs.google.com/presentation/d/1rWZU8UPYhbEYJ44ri1KKIzCbSlzo_eYPDP9AnRPs0DY/edit?usp=sharing

- Professor Pannuto was under no pressure at any time to give us positive feedback.
- Professor Pannuto is not a paid actor

Thank You!



Questions?