Buildtime Trend
What's trending in your build process

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Overview

- What is Buildtime Trend?
- How does it work?
- How to start using it
- Demo

What is Buildtime Trend?

Buildtime Trend is an Open Source application that uses (timing) data to visualise trends in a build process
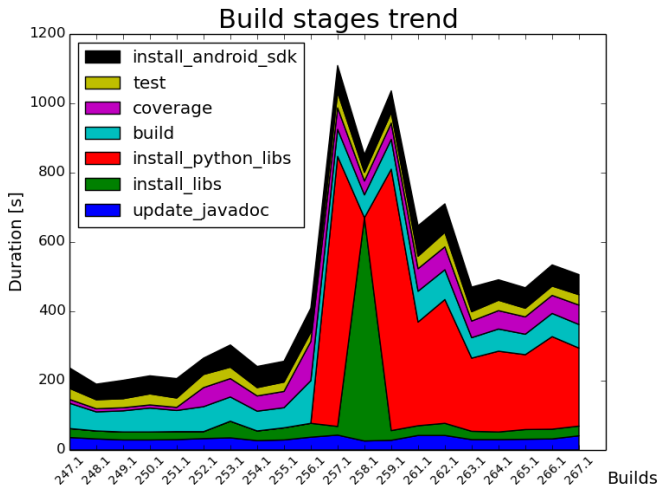
It started with an itch

Project with unreliable builds on Travis CI:

- some builds took longer than others
- no timing information was present in the logs
- which stage took longer?

Proof of concept

A script to generate a chart with duration of build stages :
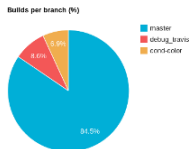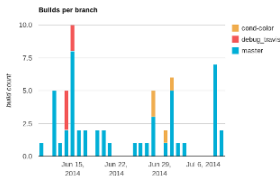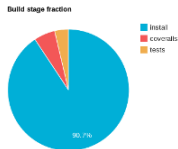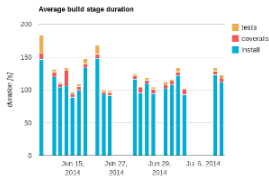
First release – dashboard
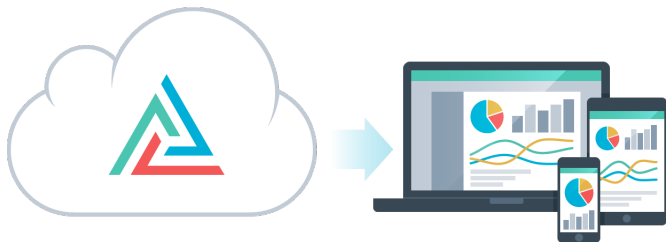

Powered by Buildtime trend (0.1).

How it works

Webservice is triggered at the end of a build :

- download Travis CI build logfile
- parse the (timing) data
- store data
- visualise using a dashboard with charts

Keen IO's powerful APIs do the heavy lifting for you, so you can gather all the data you want and start getting the answers you need.

Hosting the service

- CherryPy turns scripts into webservice
  - dashboard
  - badges
  - buildjob log parser
- service hosted on Heroku :
  https://buildtimetrend.herokuapp.com/

How to use it

Trigger the service at the end of a Travis CI build in
.travis.yml :

Example

notifications:
  webhooks:
    - https://buildtimetrend.herokuapp.com/travis

Who can use it

- Webservice : free for Open Source (for now)
  - Keen.io offered to host data for Open Source projects. **Thanks, guys!**
- Source code available on Github
  - service : host it yourself
  - client : implement in your build process

Who is using it

- Angular
- RocksDB (Facebook)
- phpMyAdmin
- Weblate
- MuseScore
- Servo
- pyca/cryptography
- Pootle
- . . .

Demo

- Service : https://buildtimetrend.herokuapp.com/
- Badges :
  https://github.com/buildtimetrend/service#badge-examples

Future development

- more and improved metrics and charts
- improve navigation and searching on dashboard
- support other CI platforms (Jenkins, ...)
- notifications

Contributions welcome

- use and test the service

- report bugs

- suggest improvements
- clone the project and send pull requests
  - implement a feature
  - fix a bug
  - add a new chart
  - improve dashboard layout
  - . . .

Acknowledgements

Big thanks to

- The nice people of Keen.io, for their invaluable support!
- the Open Source projects testdriving the service
- all the services that power the project

Questions

Thanks for your attention!

@dcadriaenssens

Presentation available on
https://ruleant.github.io/presentations/

Buildtime Trend
- Website : https://buildtimetrend.github.io/
- Service : https://buildtimetrend.herokuapp.com/
- Twitter : @buildtime_trend