ActiveData

http://activedata.allizom.org

Kyle Lahnakoski Engineering Productivity Another lightning talk on...

ActiveData

http://activedata.allizom.org

Kyle Lahnakoski Engineering Productivity

A public web service...

```
$ curl http://activedata.allizom.org/query
   -X POST
   -d '{"from":"unittest"}'
```

- · A public web service...
- providing a query interface...

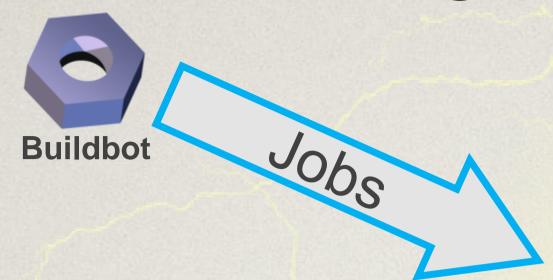
```
{
    "select":{
        "aggregate":"count"
    },
    "from":"unittest"
}
```

- · A public web service...
- providing a query interface...
- to many billions of records...

```
"meta": {
    "timing":{"total":1.77},
    "saved_as":"3iK9T6sG",
    "content_type":"application/json",
    "format":"cube"
},
"data":{"count':2713971934}
}
```

- · A public web service...
- providing a query interface...
- to over a billion test results...

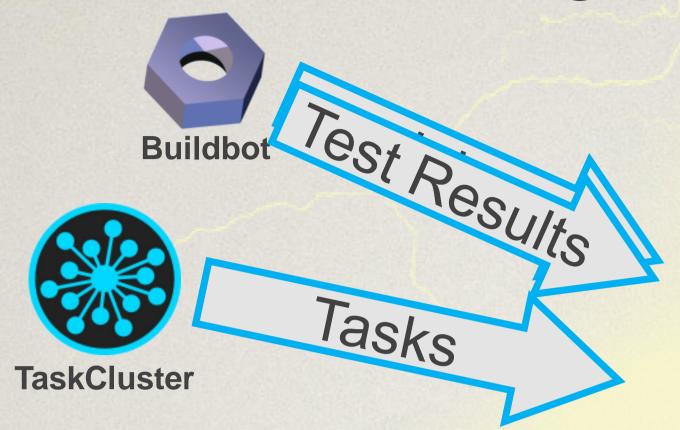
Quickly!



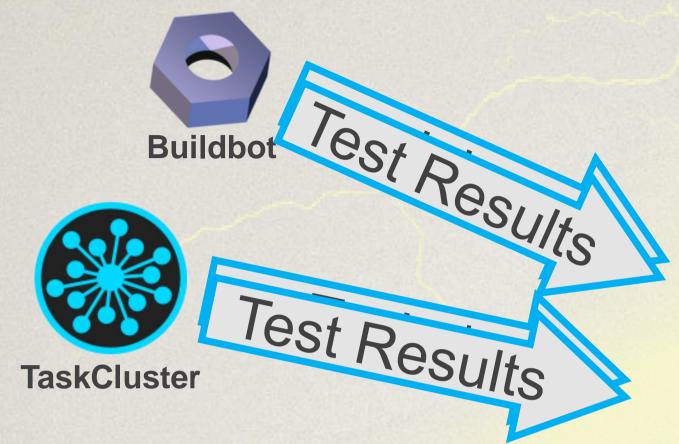




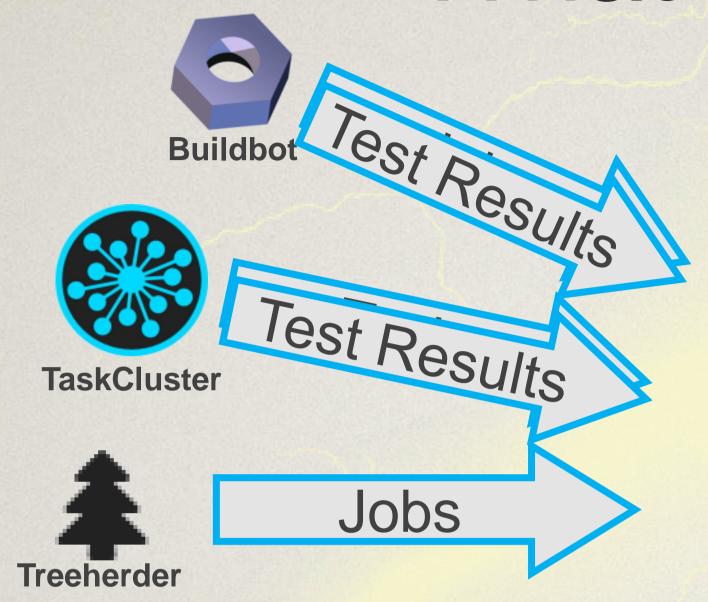








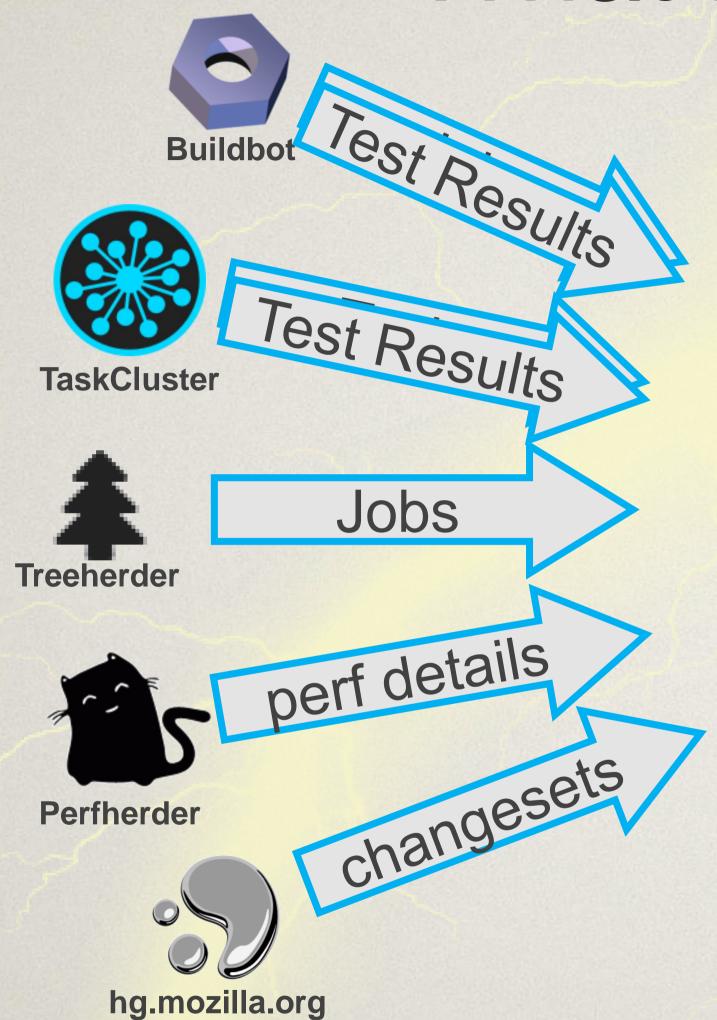






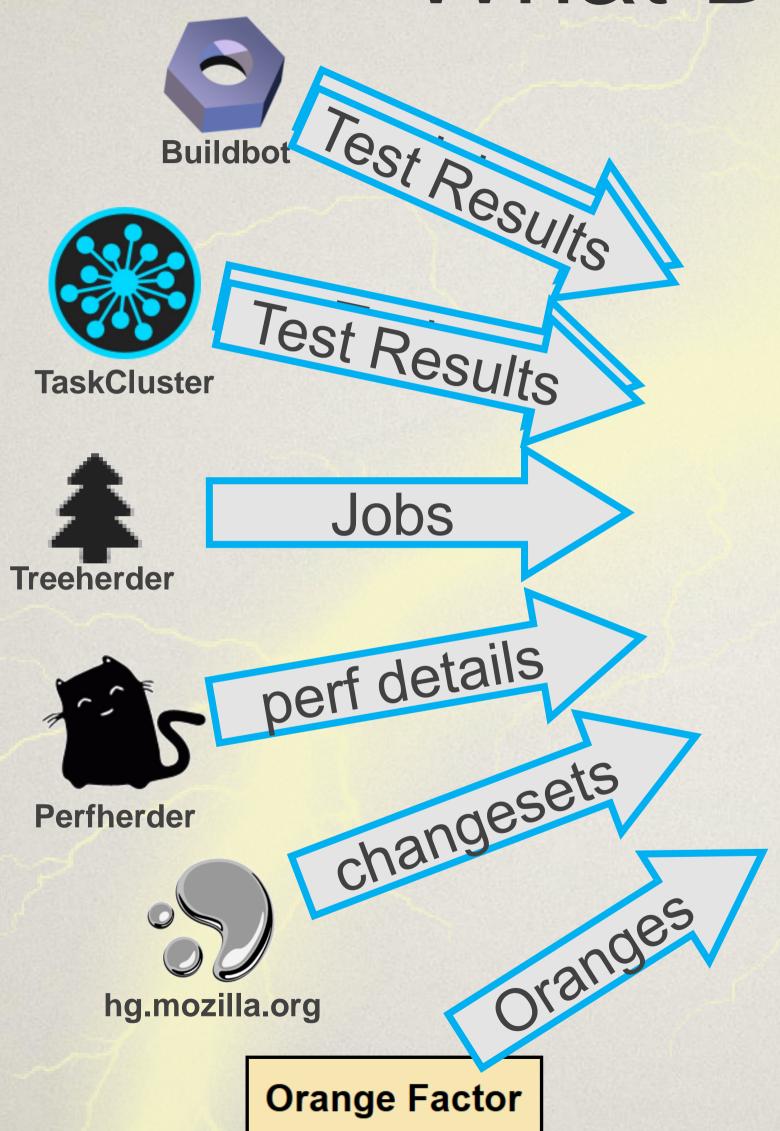






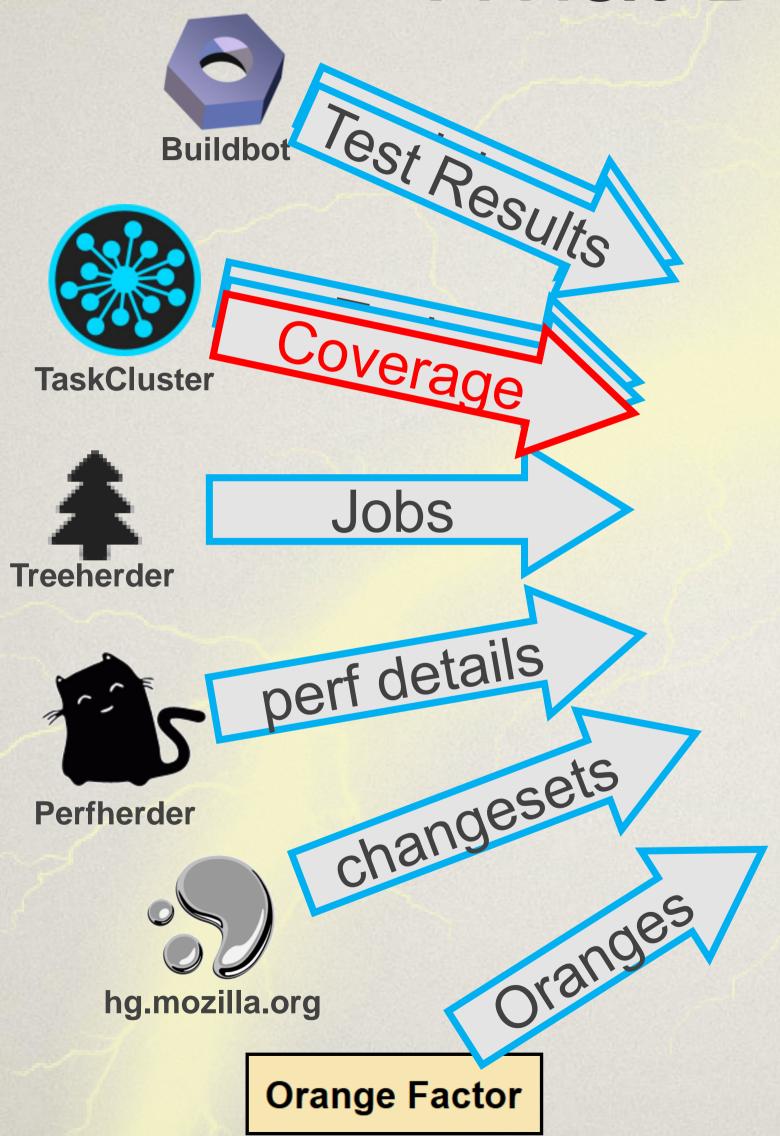


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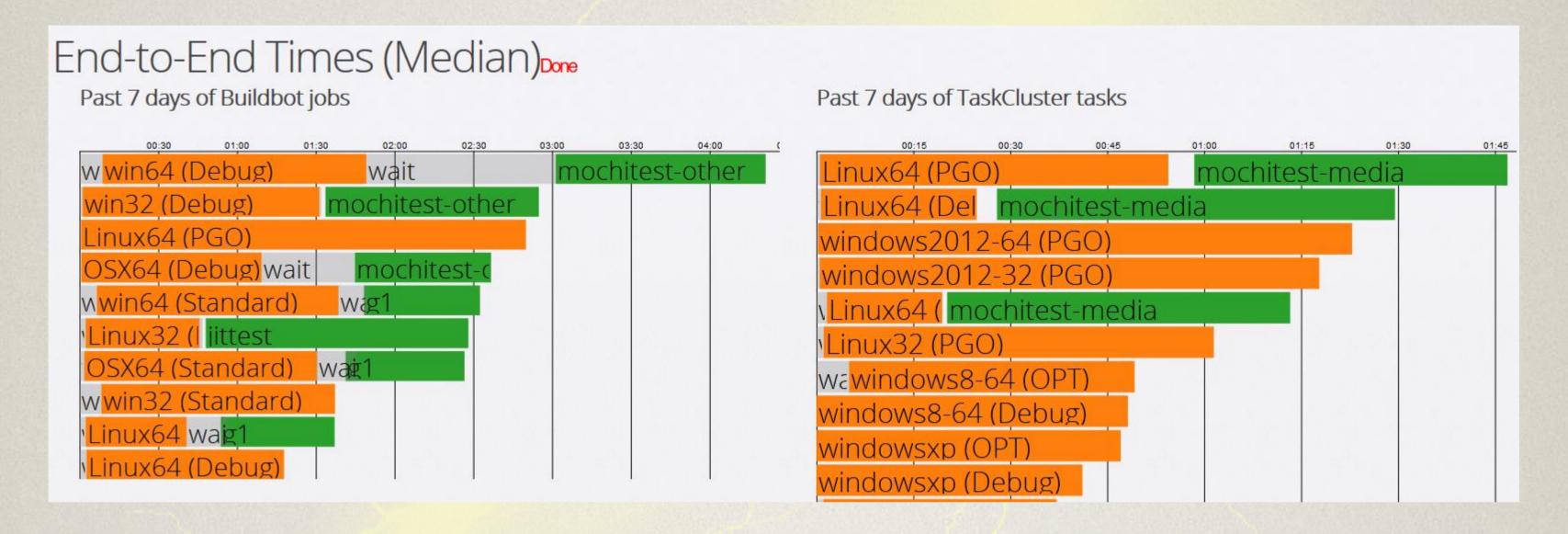


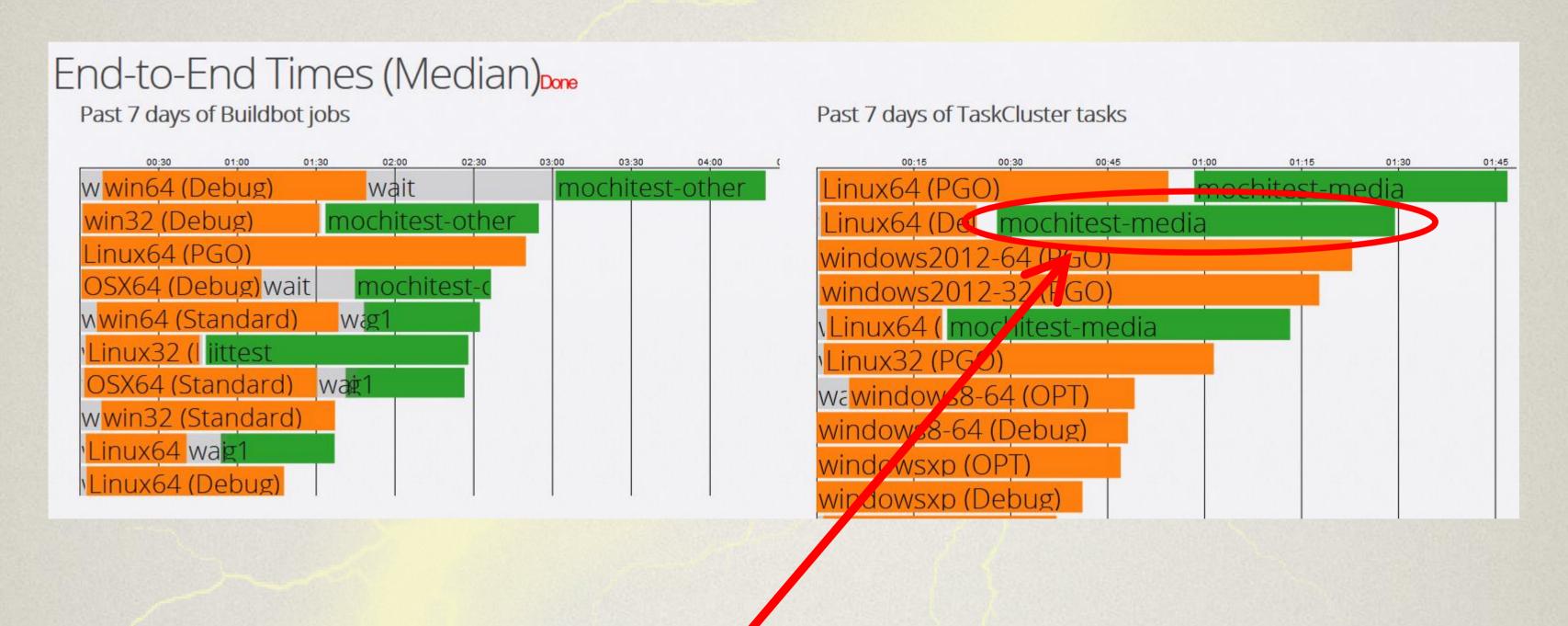


ActiveData

Why Active Data?

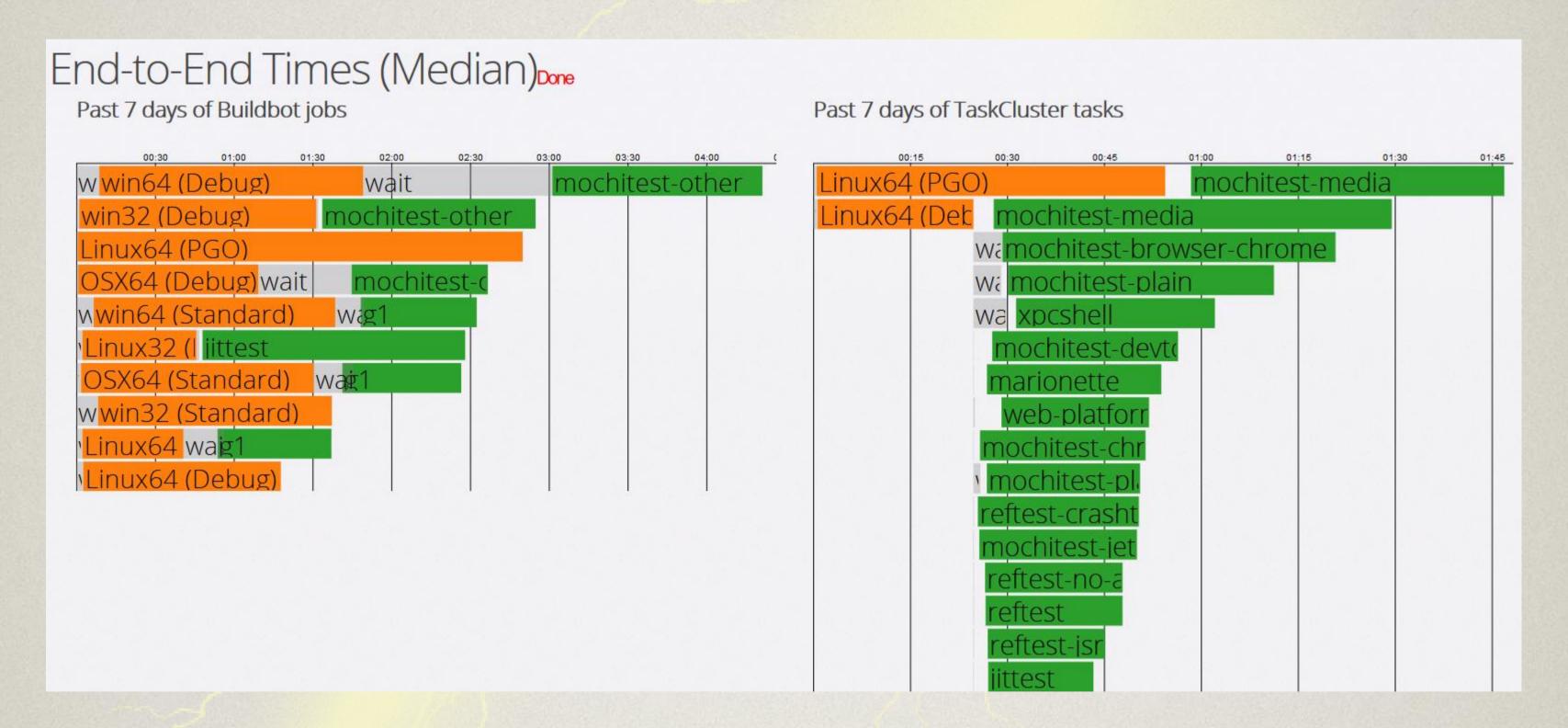
- Reduces query load on OLTP servers
- Optimized for search and aggregation
- Pool machine resources for these tasks
- ActiveData is more discoverable than static data
- Use 3rd party Dashboards, BI tools (like Redash), Python notebooks

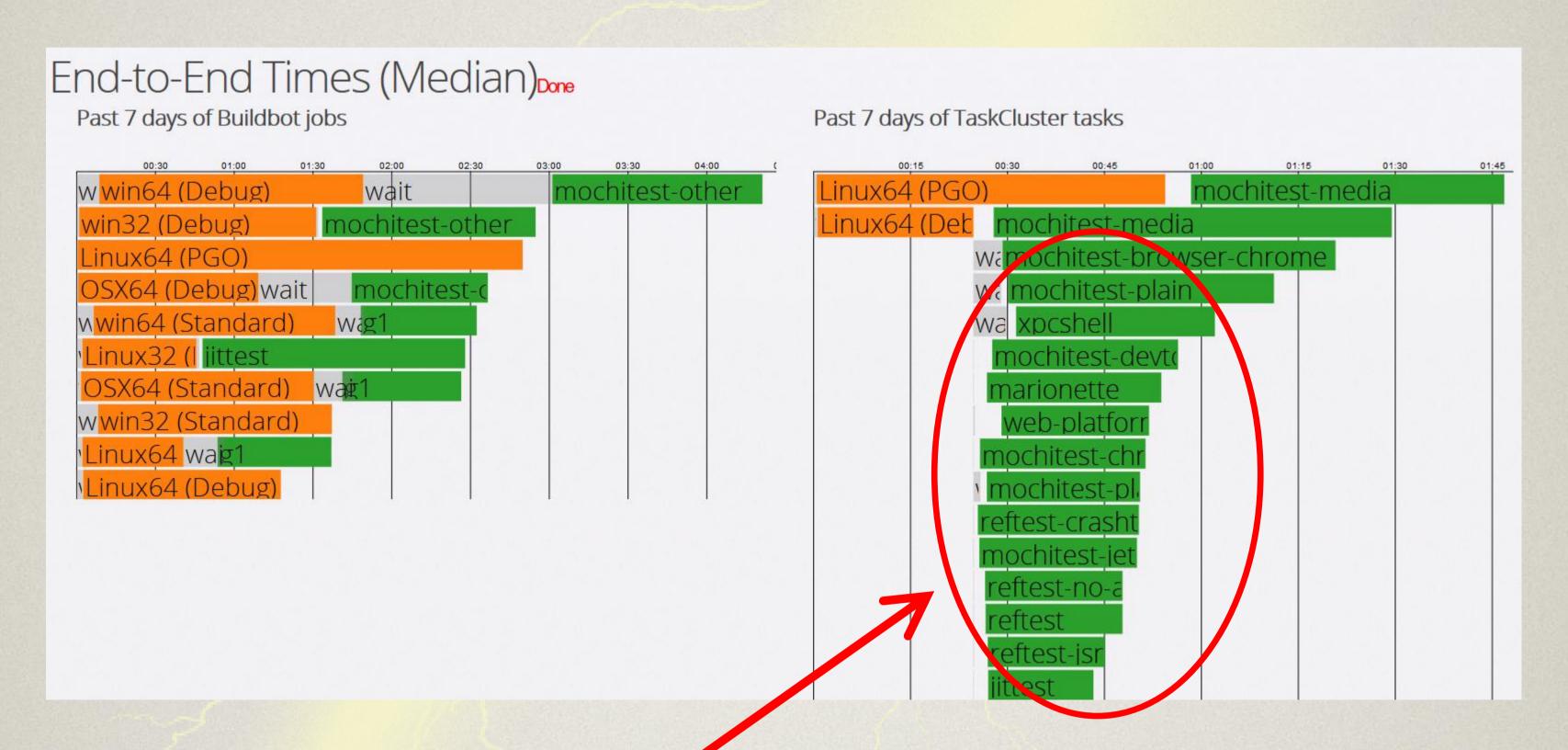




Long running test

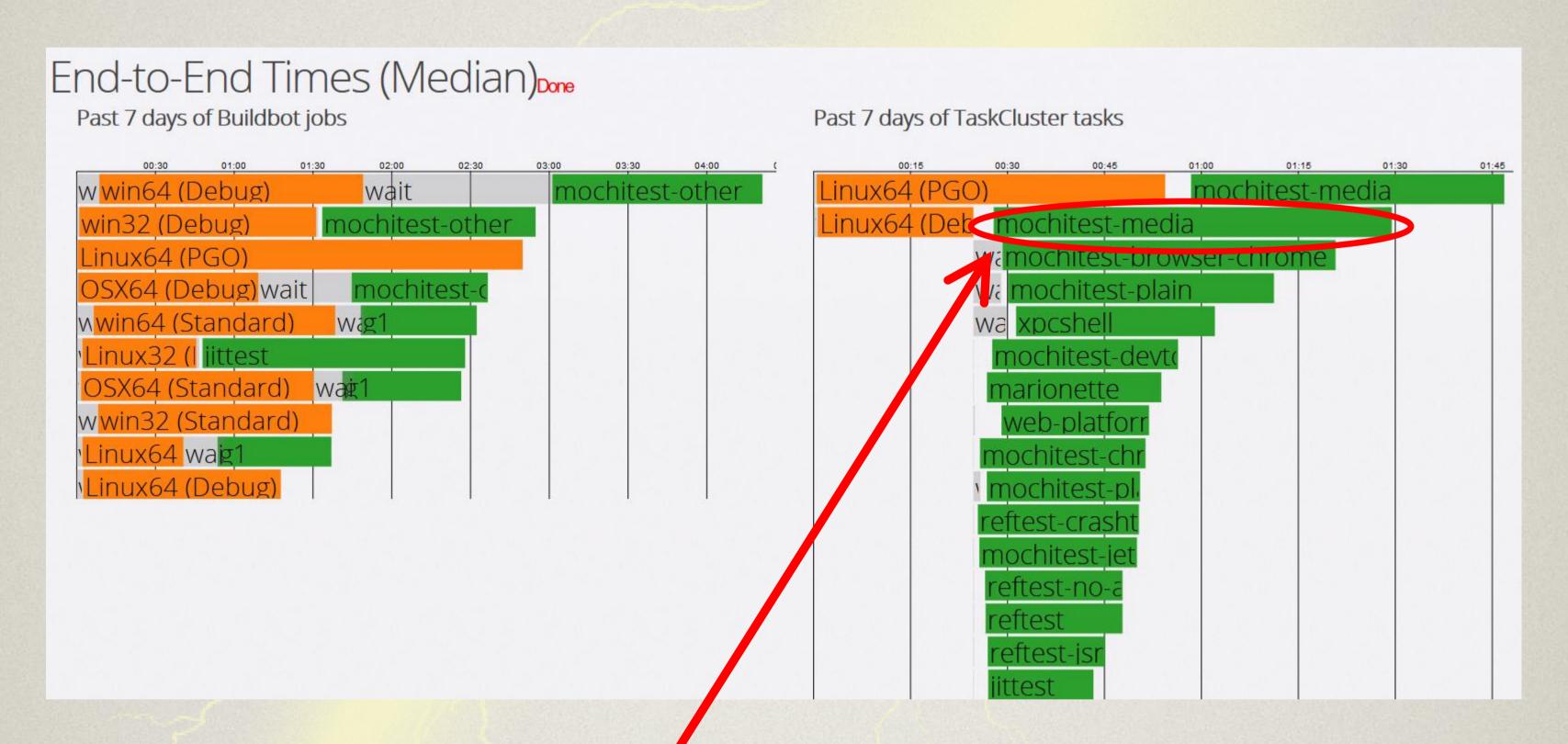
https://people-mozilla.org/~klahnakoski/MoBuildbotTimings/End-to-End.html





All the others

https://people-mozilla.org/~klahnakoski/MoBuildbotTimings/End-to-End.html



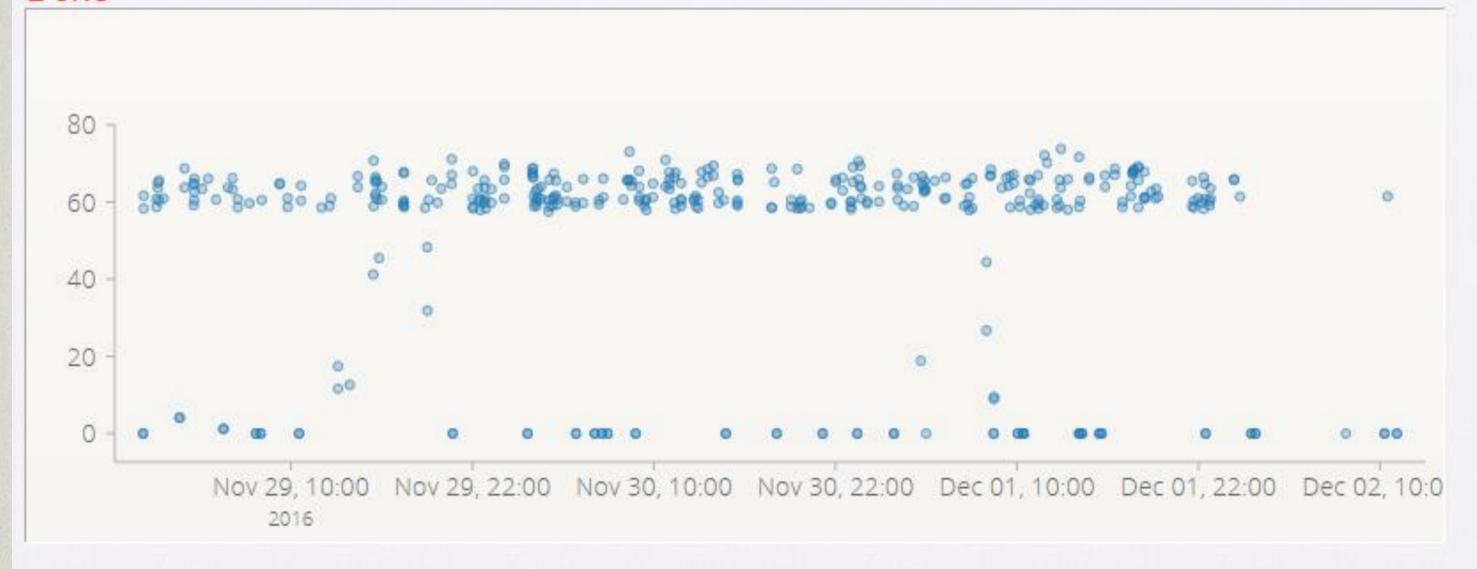
Click to get details

https://people-mozilla.org/~klahnakoski/MoBuildbotTimings/End-to-End.html

Mochitest-Media

Linux64 (Debug) on Try

Done



Mochitest-Media

Linux64 (Debug) on Try

Done



Lots of "deadline-exceeded"

Mochitest-Media

Linux64 (Debug) on Try

Done

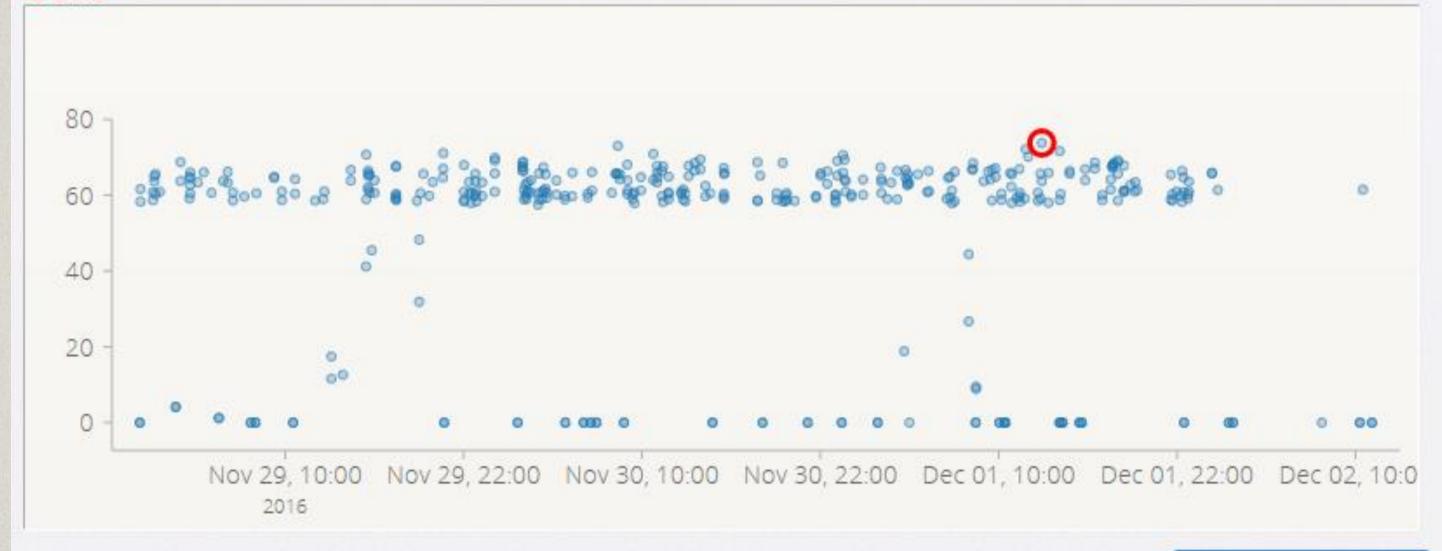


Click to get details

Mochitest-Media

Linux64 (Debug) on Try

Done



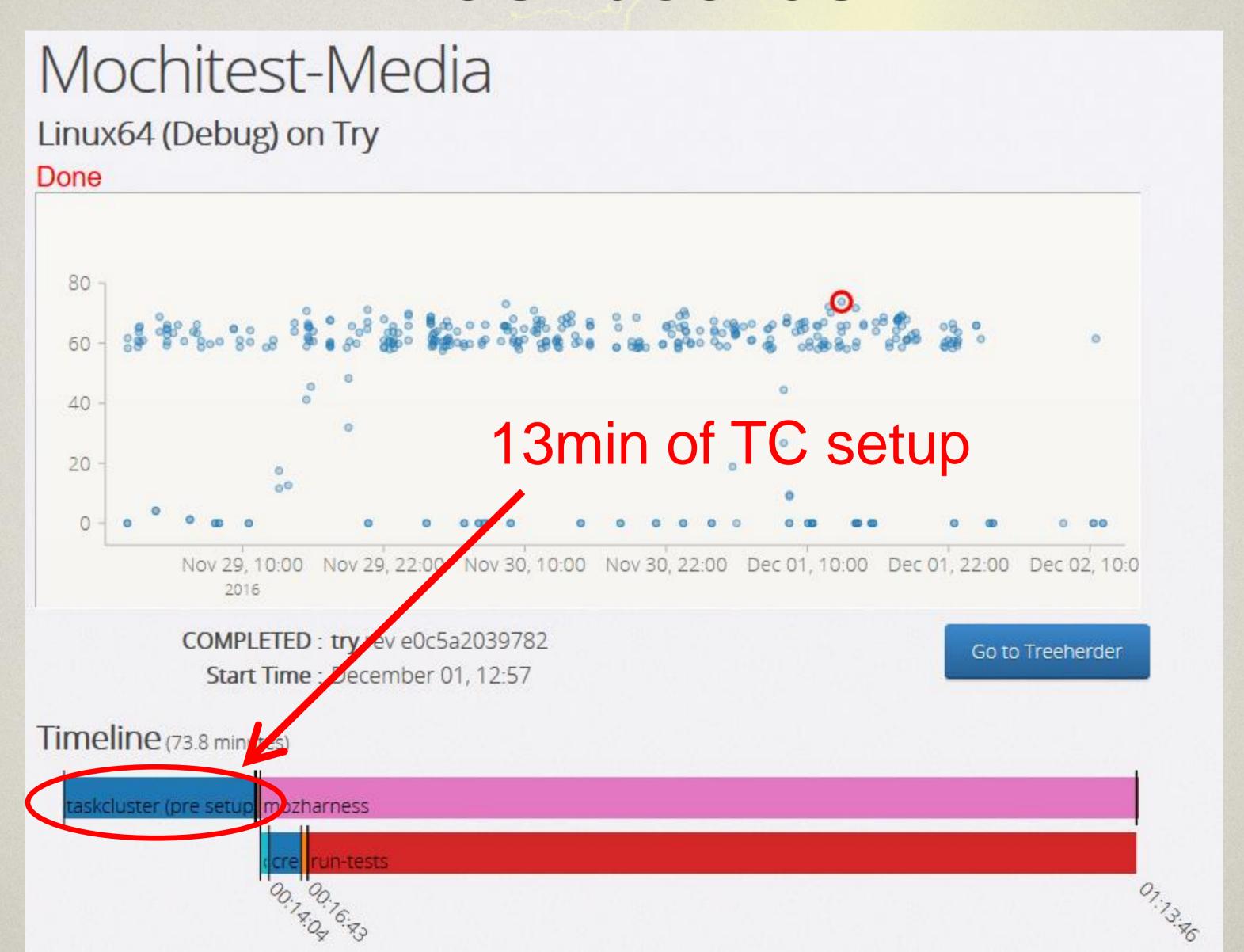
COMPLETED: try rev e0c5a2039782

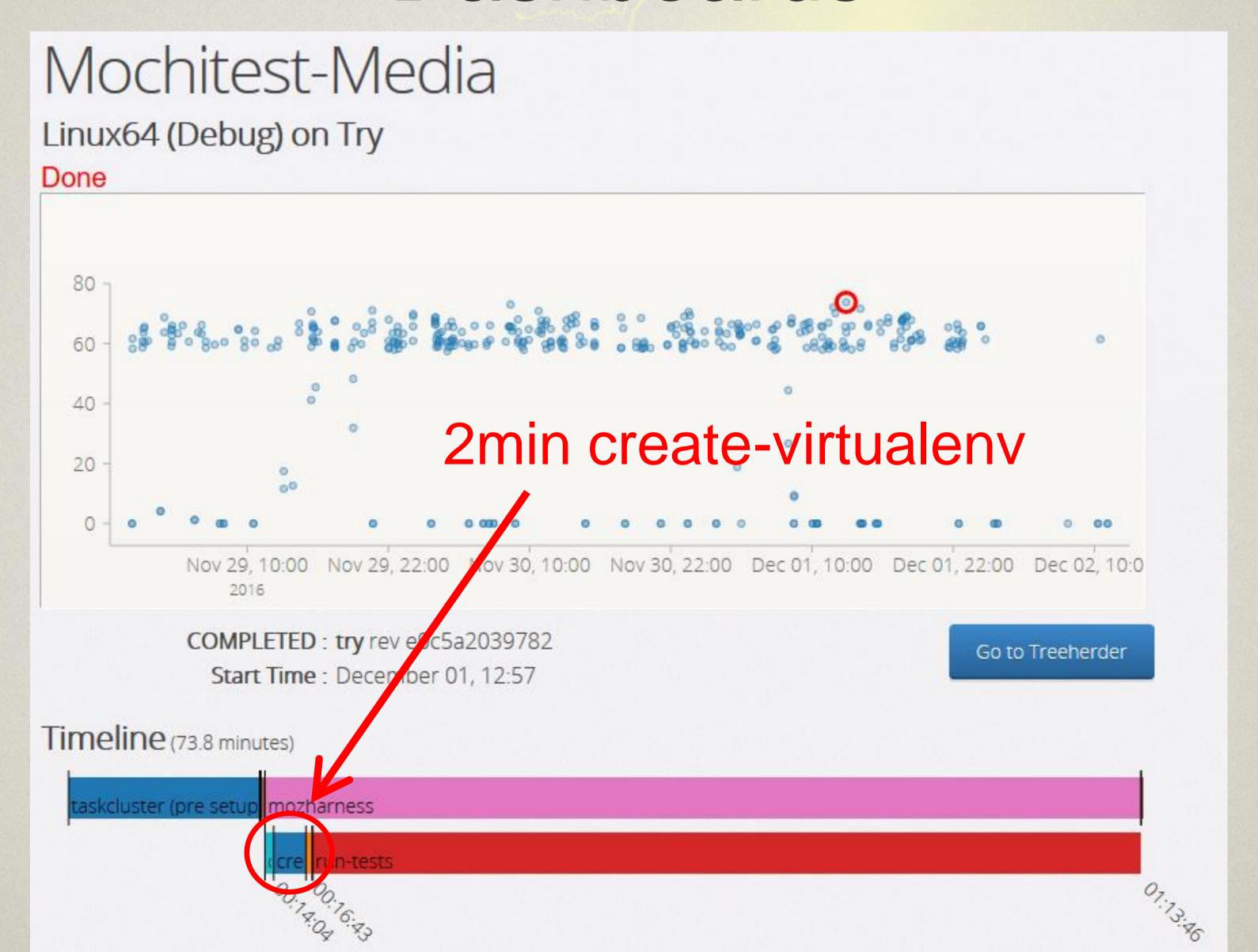
Start Time: December 01, 12:57

Go to Treeherder

Timeline (73.8 minutes)









Mochitest-Media

Linux64 (Debug) on Try

Done



Timeline (73.8 minutes)

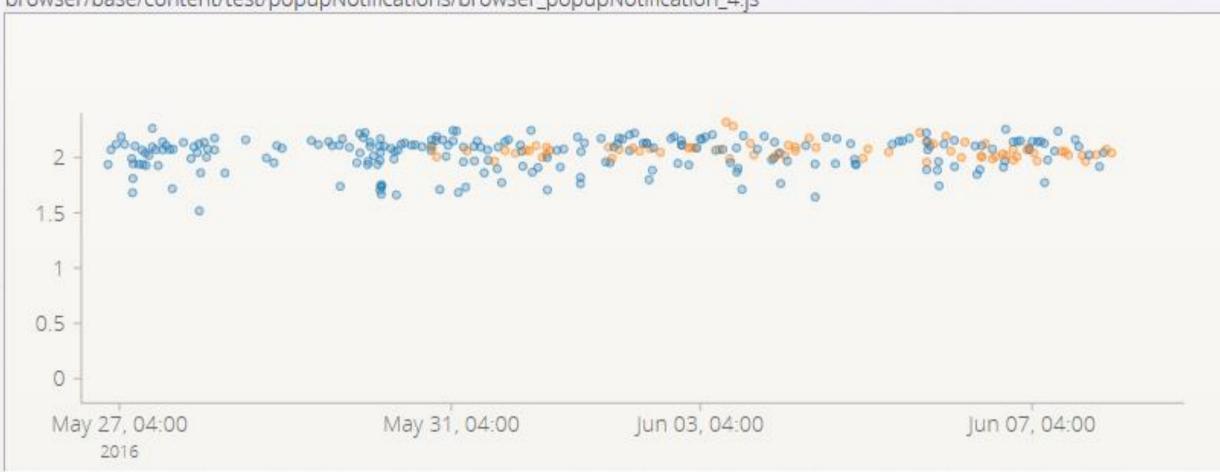


Search for test: browser/base/content/test/popupNotifications/browser_popupNotifi

Done

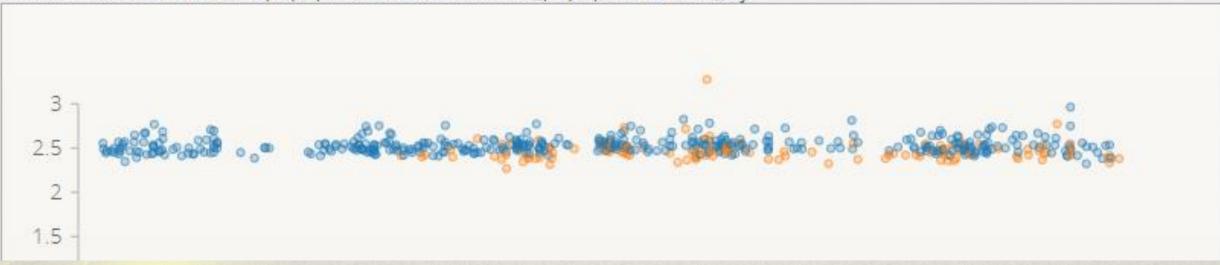
FIREFOX - win64 (pgo) mochitest-e10s-browser-chrome (e10s) (35% failures)

browser/base/content/test/popupNotifications/browser_popupNotification_4.js



FIREFOX - win64 (opt) mochitest-e10s-browser-chrome (e10s) (29% failures)

browser/base/content/test/popupNotifications/browser_popupNotification_4.js



https://people-mozilla.org/~klahnakoski/testfailures

Search for test: browser/base/content/test/popupNotifications/browser_popupNotifi Done FIREFOX - win64 (pgo) mochitest-e10s-browser-chrome (e10s) (35% failures) browser/base/content/test/popupNotifications/browser_popupNotification_4.js 1.5 First occurrence in late May 0.5 May 31, 04:00 May 27, 04:00 Jun 07, 04:00 lun 03. 04:00 2016 FIREFOX - win64 (opt) mochitest-210s-browser-chrome (e10s) (29% failures) browser/base/content/test/popupNotifications/broy/ser_popupNotification_4.js 1.5

https://people-mozilla.org/~klahnakoski/testfailures

Future Plans?

- Attach Redash
- Move to https://charts.mozilla.org
- Work on SQL parser *

```
$ curl http://activedata.allizom.org/query
    -X POST
    -d '{"sql":"select count(1) from unittest"}'
```

*https://github.com/mozilla/moz-sql-parser

Active Data

Don't use static files!
Use an Active Database!

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