Highlights from The State of Go

Go 1.8 release party, 2017 February 16, GolangDFW Meetup.

Jason E. Aten, Ph.D. Computer Scientist/Gopher

slides courtesy of

The Google Go Team.

The video full presentation by

Francesc Campoy
Google Developer Advocate
@francesc
campoy@golang.org

source:

https://github.com/golang/talks

and

https://talks.golang.org/2017/state-of-go.slide

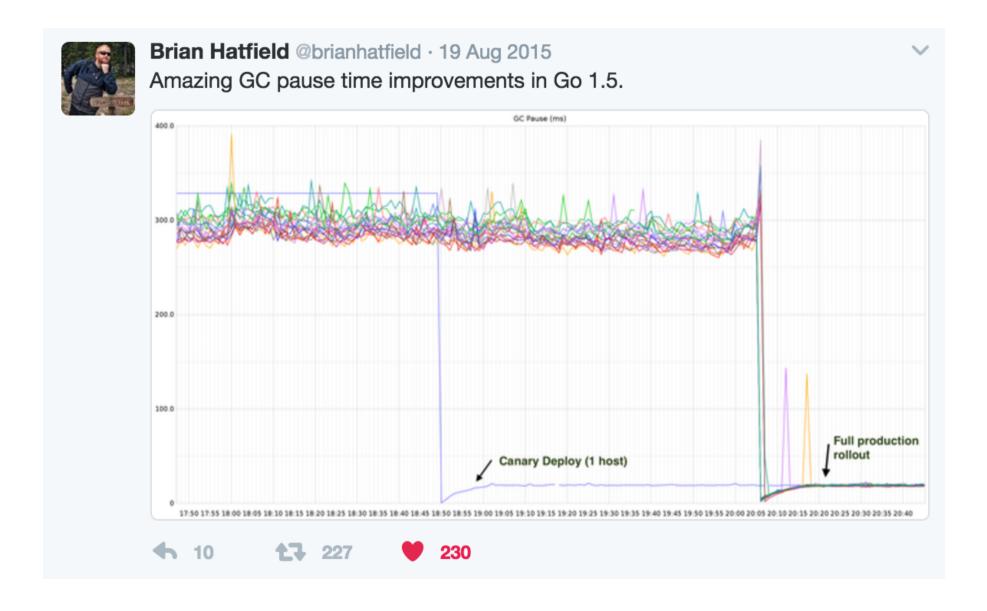
can be viewed

https://www.youtube.com/watch?v=tY4UKkgb5IY&feature=youtu.be

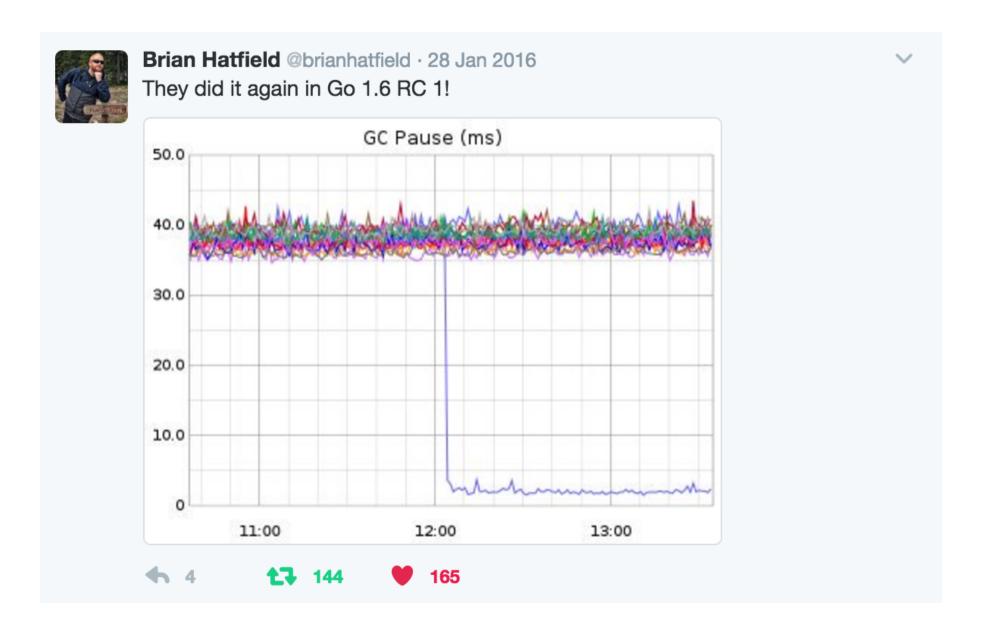
Highlight #1: garbage collection pause times

GC history in tweets

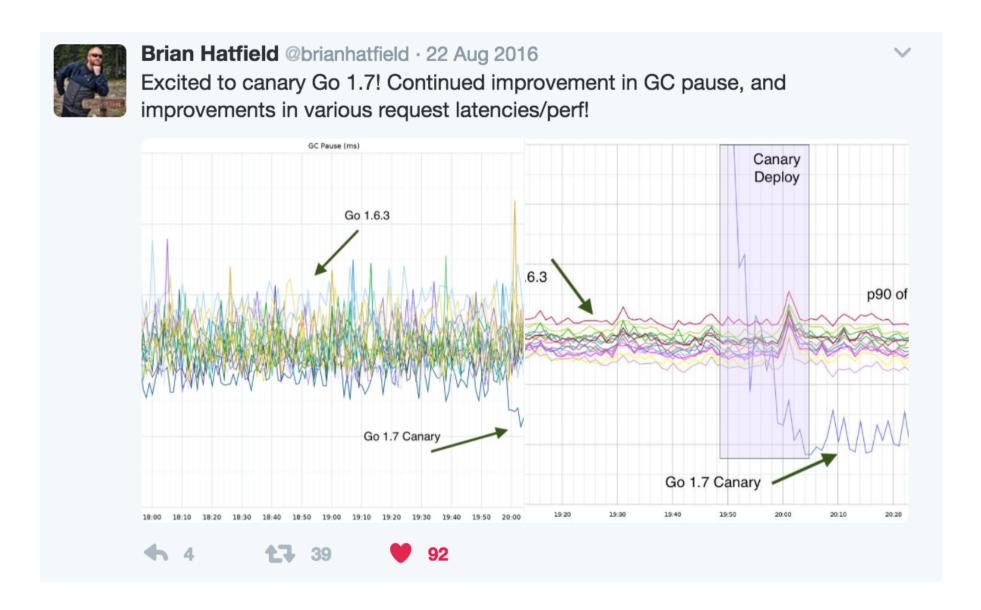
go 1.5



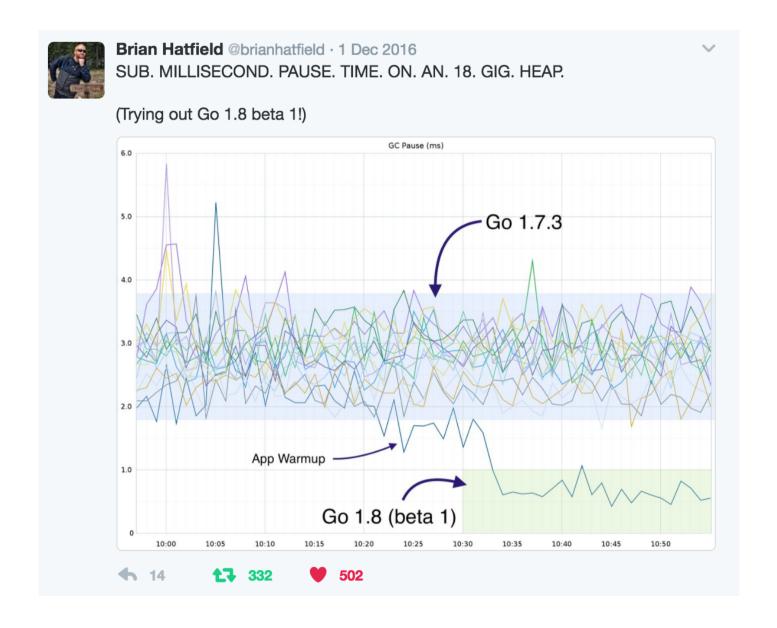
go 1.6



go 1.7



go 1.8 (beta 1)



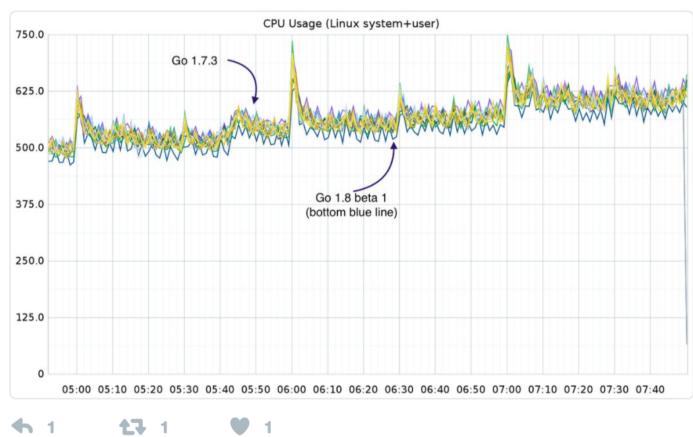
go 1.8 (beta 1) CPU



Brian Hatfield @brianhatfield · 2 Dec 2016



@tmornini On this particular service, properly scaled for what it does: Not very different. Here's an imprecise measurement on Linux/amd64:



http://127.0.0.1:3999/state-of-go.slide#1

9/16

Highlight number 2: Plugins

Define a plugin:

```
package main

// No C code needed.
import "C"

import "fmt"

var V int

func F() { fmt.Printf("Hello, number %d\n", V) }
```

Then build it:

```
go build -buildmode=plugin
```

Note: This currently works only on Linux.

Plugins

```
p, err := plugin.Open("plugin_name.so")
if err != nil {
    panic(err)
v, err := p.Lookup("V")
if err != nil {
    panic(err)
}
f, err := p.Lookup("F")
if err != nil {
    panic(err)
v.(*int) = 7
f.(func())() // prints "Hello, number 7"
```

Plugins demo

Demo video: twitter.com/francesc(https://twitter.com/francesc/status/827851085943566336)

Source code: github.com/campoy/golang-plugins (https://github.com/campoy/golang-plugins)

Highlight #3: Go meetups and conferences



Gophers all around the world! go-meetups.appspot.com (http://go-meetups.appspot.com)

Conferences:

- FOSDEM (https://fosdem.org/2017/), earlier this month, these slides are from F. Campoy's talk there.
- GopherCon India (http://www.gophercon.in/), Feb 25-25th
- Gophercon Denver (https://gophercon.com/), Jul 12-15th
- Golang UK(http://golanguk.com/), August 16th-18th
- dotGo (http://2017.dotgo.eu/), Nov 6th

Thank you

Jason E. Aten, Ph.D.
Computer Scientist/Gopher
j.e.aten@gmail.com(mailto:j.e.aten@gmail.com)
GolangDFW Meetup

http://127.0.0.1:3999/state-of-go.slide#1

16/16