

Parallel Processing in Go

Flyfishing and a Monte Carlo Experiment

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What is Go?

Go is an open source, general purpose programming language which began development in 2007. It is ...

- ▶ Compiled
- ▶ Garbage collected
- ▶ Type/memory safe
- ▶ Concurrent
- ▶ Namespaced
- ▶ OOP friendly
- ▶ Unicode based

Who made Go?

Google hired a few old time pioneers to design and develop Go.

- ▶ Ken Thompson (C and Unix)
- ▶ Rob Pike (Unix and UTF-8)
- ▶ Robert Griesemer (not as famous)

Why did they make Go?

There was no existing language that met all 3 creteria that Google wanted.

- ▶ Efficient compilation
- ▶ Efficient execution
- ▶ Ease of programming

Can we see some Go?

And what about flyfishing?

`https://github.com/mgbelisle/flyfishing`

Should your project be written in Go?

Go is a bad language to choose if ...

- ▶ Your app needs a UI toolkit
- ▶ The devs need mountains of example code

Go is a good language to choose if ...

- ▶ Your app needs to do lots of things at the same time
- ▶ Your app needs to be fast
- ▶ Your infrastructure needs to be distributed/scalable