

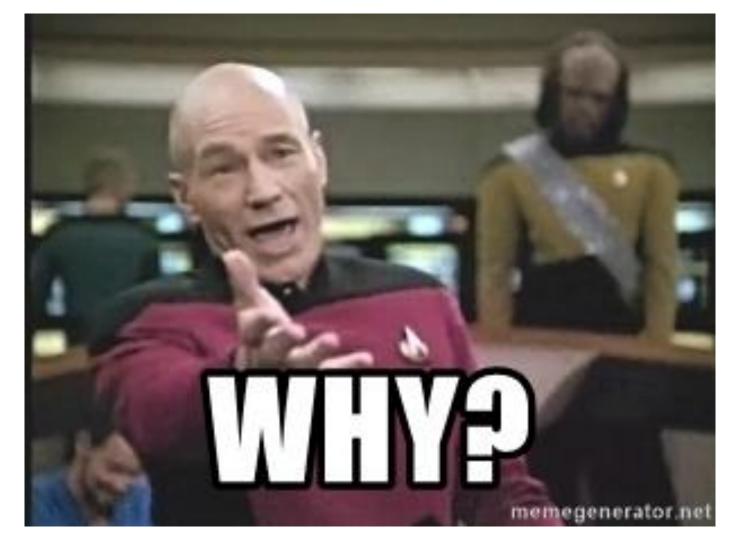
in memory with 0 Serialization and ε Memory

Miki Tebeka



CEO, CTO, UFO ...

353solutions



How many times do I have to tell you? The right tool for the right job!

Lt. Commander Montgomery Scott

RPC

Glue Language

Duct tape is like the force. It has a light side, and a dark side, and it holds the universe together.

Carl Zwanzig

CPython

Preconditions

- Go's float64 & numpy's float have the same representation in memory
- numpy arrays are contiguous in memory

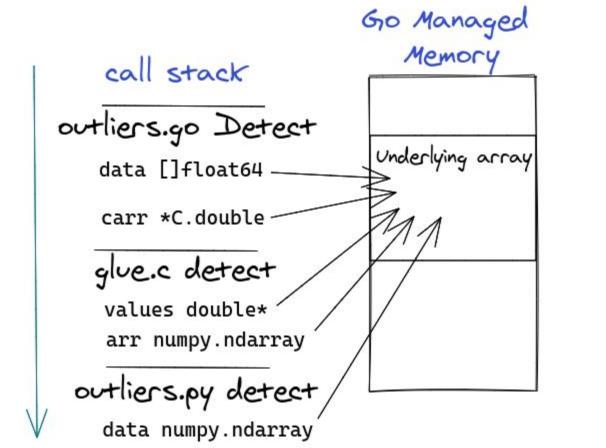


Setup

- Initialize Python
- Initialize numpy
- Load Module
- Get pointer to function

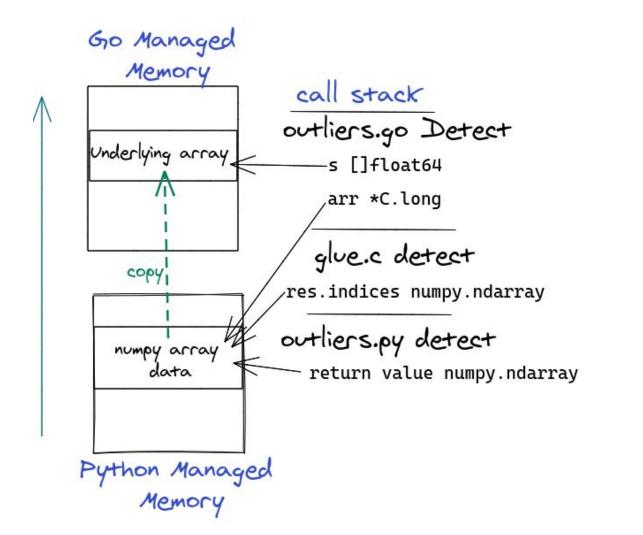


Going Down





Going





Building

What's Left?

- Goroutine/thread safety (GIL)
- Better error recovery
- Memory leaks?
- ...

Thank You!

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https://www.ardanlabs.com/blog/2020/09/using-python-memory.html
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https://poweruser.blog/embedding-python-in-go-338c0399f3d5

#darkarts on https://gophers.slack.com/

https://github.com/tebeka/talks/tree/master/embed-py-fosdem