marshal

Compiler for a DSL that makes marshaling and unmarshaling structs and commands easier in C.

Purpose

Automatically marshaling and unmarshaling structs or passing commands between networked peers in C is unnecessarily complex. One time-honored solution is using some form of RPC. However, there are a few issues with this approach.

- 1. RPC is designed to make the call transparently, giving the illusion that there is a function being called locally. This is fine in some situations, but in others makes for a too high level abstraction. If you just want to send structs in a platform-independent fashion, you're out of luck with RPC.
- 2. RPC's abstraction means a certain port is used, the connection is established for you. You may not want this. You could prefer to send the commands yourself.
- 3. Given this model, RPC does not allow for assynchronous operations, which is **bad**. Or at least not a very nice thing to do.
- 4. Last, and least, RPC is old. You know it is from another era when it optionally compiles for K&R C.

Installation

Requirements

```
>=python3.7

pyinstaller

To build, run

$ make build;

$ mv marshal somewhere/in/your/path;
```

Contributing

Spin up a PR

More information

On the wiki