

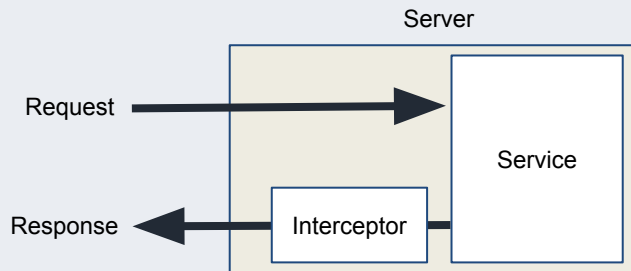
RQ: How do different gRPC interceptors affect throughput & latency in microservice communication?

Motivation

Microservice communication with gRPC promises high performance¹

Middleware adds overhead

Examples:
auth, authz, otelgrpc²



¹<https://grpc.io/>, ²<https://github.com/grpc-ecosystem/go-grpc-middleware>

Experiment Design

SUT: different gRPC interceptors

Implement interceptors into one server in demo microservice system

Continuously send requests

Variables:
Interceptor, Unary vs. Stream & Order

Measurements:
Throughput & Latency