rpc trace中间件开发

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Opentrace 配置和初始化

- 上报中心的地址
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```
type RpcOptions struct {
        ConnTimeout time.Duration
        WriteTimeout time.Duration
        ReadTimeout time.Duration
        ServiceName string
11
        //注册中心名字
12
13
        RegisterName string
        //注册中心地址
14
        RegisterAddr string
15
        //注册中心路径
17
        RegisterPath string
        //限流的qps
18
19
        MaxLimitQps int
        //trace report address
20
        TraceReportAddr string
21
22
        //trace sample type
23
        TraceSampleType string
        //trace_sample rate
24
25
        TraceSampleRate float64
        //clientServiceName
27
        ClientServiceName string
28
```

Opentrace 配置和初始化

• 选项函数实现

```
func WithTraceReportAddr(addr string) RpcOptionFunc {
    return func(opts *RpcOptions) {
        opts.TraceReportAddr = addr
func WithTraceSampleType(stype string) RpcOptionFunc {
    return func(opts *RpcOptions) {
        opts.TraceSampleType = stype
func WithTraceSampleRate(rate float64) RpcOptionFunc {
    return func(opts *RpcOptions) {
        opts.TraceSampleRate = rate
func WithClientServiceName(name string) RpcOptionFunc {
    return func(opts *RpcOptions) {
        opts.ClientServiceName = name
```

Opentrace 配置和初始化

• 默认值

```
client := &KoalaClient{
   opts: &RpcOptions{
       ConnTimeout:
                           DefaultConnTimeout,
                           DefaultWriteTimeout,
       WriteTimeout:
       ReadTimeout:
                           DefaultReadTimeout,
       ServiceName:
                           serviceName,
       RegisterName:
                           "etcd",
       RegisterAddr:
                           "127.0.0.1:2379",
                           "/ibinarytree/koala/service/",
       RegisterPath:
       TraceReportAddr:
                           "http://60.205.218.189:9411/api/v1/spans",
       TraceSampleType:
                           "const",
       TraceSampleRate:
       ClientServiceName: "default",
   balance: loadbalance.NewRandomBalance(),
```

Opentrace 中间件开发

- 关键代码:
 - 启动跟踪: clientSpan := tracer.StartSpan(rpcMeta.ServiceName, opts...)
 - 【跟踪】传播: tracer.Inject(clientSpan.Context(),opentracing.HTTPHeaders, metadataTextMap(md))
 - 结束跟踪: clientSpan.Finish()

集中测试