

## MESSANGER NOTES

Messenger is the Ceph network layer implementation. Currently Ceph supports three messenger type “simple”, “async” and “xio”. The latter two are both experiment features and shouldn’t use them in production environment.

### CEPH\_PERF\_MSGR

ceph\_perf\_msgr is used to do benchmark for messenger module only and can help to find the bottleneck or time consuming within messenger module. It just like “iperf”, we need to start server-side program firstly:

```
# ./ceph_perf_msgr_server 172.16.30.181:10001 0
```

The first argument is ip:port pair which is telling the destination address the client need to specified. The second argument tells the “think time” when dispatching messages. After Giant, CEPH\_OSD\_OP message which is the actual client read/write io request is fast dispatched without queueing to Dispatcher, in order to achieve better performance. So CEPH\_OSD\_OP message will be processed inline, “think time” is used by mock this “inline process” process.

```
# ./ceph_perf_msgr_client 172.16.30.181:10001 1 32 10000 10 4096
```

The first argument is specified the server ip:port, and the second argument is used to specify client threads. The third argument specify the concurrency(the max inflight messages for each client thread), the fourth argument specify the io numbers will be issued to server per client thread. The fifth argument is used to indicate the “think time” for client thread when receiving messages, this is also used to mock the client fast dispatch process. The last argument specify the message data length to issue.