## Socket Programming: UDP Pinger

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## 实验环境

macOS "Mojave" 10.14.5 Broadcom BCM4352 Wireless Network Adapter Wireshark Version 3.2.2 (v3.2.2-0-ga3efece3d640) Safari Version 12.1.1 (14607.2.6.1.1)

## 实验结果

实现了通过UDP的ping操作,同时可以显示ping的统计信息:

```
Minadukis-MacBook-Pro:2_UDPPinger minaduki$ python3 client.py 12 7.0.0.1 from 127.0.0.1: udp_seq=0 rtt=0.000162 s Request timeout for udp_seq 1 from 127.0.0.1: udp_seq=2 rtt=0.000276 s Request timeout for udp_seq 3 from 127.0.0.1: udp_seq=4 rtt=0.000547 s from 127.0.0.1: udp_seq=5 rtt=0.000254 s Request timeout for udp_seq 6 from 127.0.0.1: udp_seq=7 rtt=0.000393 s Request timeout for udp_seq 8 from 127.0.0.1: udp_seq=9 rtt=0.000383 s --- 127.0.0.1 ping statistics --- 10 packets transmitted, 6 packets received, 40.0% packet loss rtt: min 0.000162 s, average 0.000336 s, max 0.000547 s
```

## 小结

加深了对UDP协议的理解、同时掌握了使用UDP通讯的方法。