

User manual for Ping utility.

Tested on local host

- 1) Start by compiling PingServer.java by command

```
Javac PingServer.java
```

- 2) Then run PingServer by command

```
Java PingServer *portnumber
```

*6666 was used for testing

- 3) Compile PingClient.java on a VM or different machine by command

```
Javac PingClient.java
```

- 4) Then run PingClient by command

```
Java PingClient *host **portnumber
```

*localhost was used for testing **6666 was used for testing

Sample output

Server

```
C:\Users\ericy\Desktop>java PingServer 6666
Received from 127.0.0.1: Ping 0 1605855092776
  Reply sent.
Received from 127.0.0.1: Ping 1 1605855093884
  Reply not sent.
Received from 127.0.0.1: Ping 2 1605855095886
  Reply sent.
Received from 127.0.0.1: Ping 3 1605855096905
  Reply sent.
Received from 127.0.0.1: Ping 4 1605855097945
  Reply sent.
Received from 127.0.0.1: Ping 5 1605855099082
  Reply sent.
Received from 127.0.0.1: Ping 6 1605855100203
  Reply not sent.
Received from 127.0.0.1: Ping 7 1605855102205
  Reply sent.
Received from 127.0.0.1: Ping 8 1605855103295
  Reply sent.
Received from 127.0.0.1: Ping 9 1605855104484
  Reply sent.
```

Client

```
C:\Users\ericy\Desktop>javac PingClient.java
C:\Users\ericy\Desktop>java PingClient localhost 6666
delay: 99 Received from 127.0.0.1: Ping 0 1605855092776
packet lost
delay: 18 Received from 127.0.0.1: Ping 2 1605855095886
delay: 39 Received from 127.0.0.1: Ping 3 1605855096905
delay: 136 Received from 127.0.0.1: Ping 4 1605855097945
delay: 120 Received from 127.0.0.1: Ping 5 1605855099082
packet lost
delay: 89 Received from 127.0.0.1: Ping 7 1605855102205
delay: 188 Received from 127.0.0.1: Ping 8 1605855103295
delay: 187 Received from 127.0.0.1: Ping 9 1605855104484
RTT: max: 1000 min: 18 average: 287
```