

UDP pinger

Opgaver

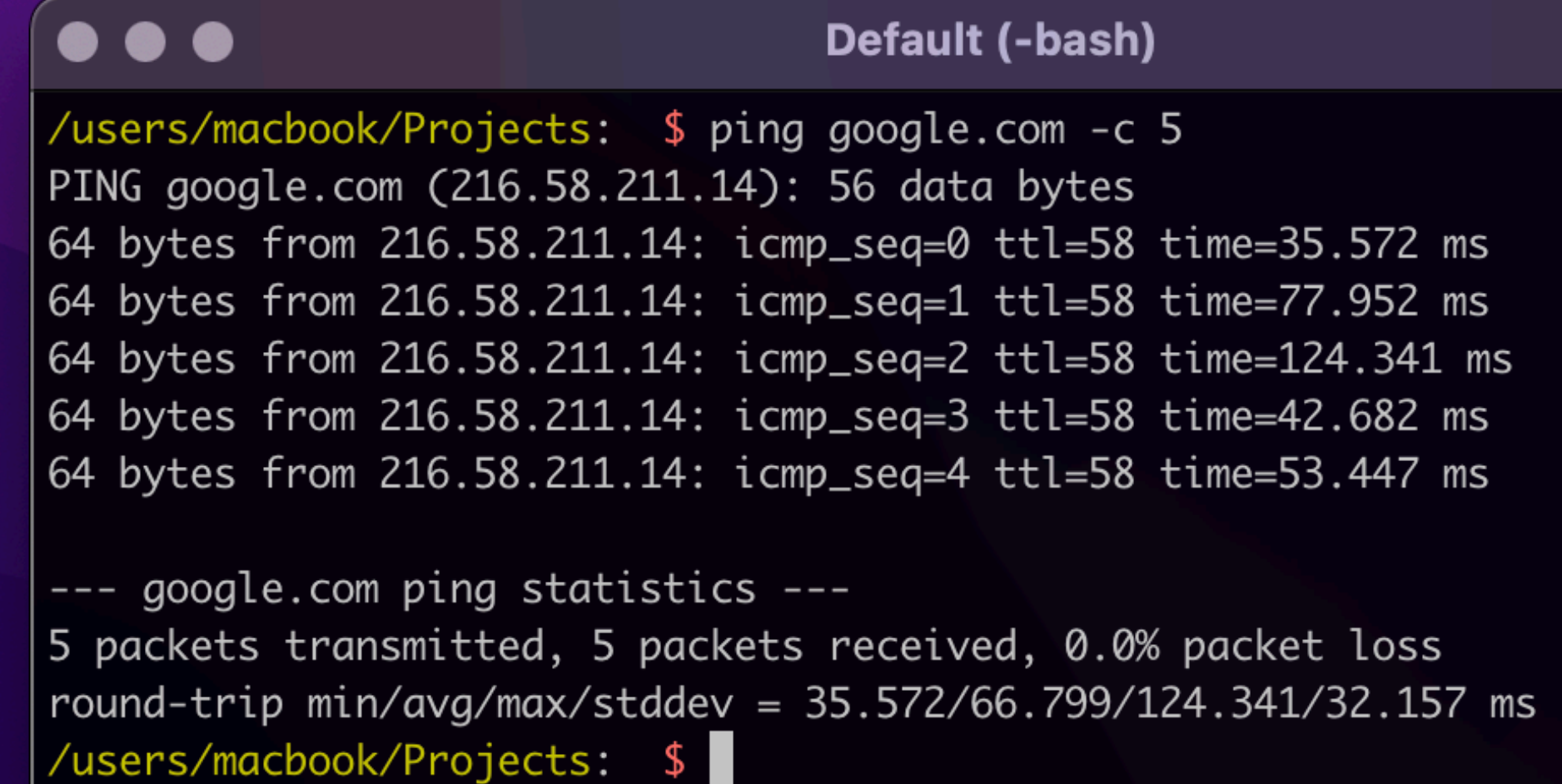
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Dagens opgaver

- Få en UDP server op
- Få en UDP client op
- Bygge en **udp pinger**

Hvad er en pinger?

- Testing tool
 - Connections
 - Delay

A terminal window titled "Default (-bash)" showing the output of a ping command. The prompt is "/users/macbook/Projects: \$". The command entered is "ping google.com -c 5". The output shows five successful ping attempts to google.com (216.58.211.14) with 56 data bytes each. The times for each attempt are: 35.572 ms, 77.952 ms, 124.341 ms, 42.682 ms, and 53.447 ms. Below the individual results, a summary line shows "5 packets transmitted, 5 packets received, 0.0% packet loss" and "round-trip min/avg/max/stddev = 35.572/66.799/124.341/32.157 ms". The prompt returns to "/users/macbook/Projects: \$".

```
Default (-bash)
/users/macbook/Projects: $ ping google.com -c 5
PING google.com (216.58.211.14): 56 data bytes
64 bytes from 216.58.211.14: icmp_seq=0 ttl=58 time=35.572 ms
64 bytes from 216.58.211.14: icmp_seq=1 ttl=58 time=77.952 ms
64 bytes from 216.58.211.14: icmp_seq=2 ttl=58 time=124.341 ms
64 bytes from 216.58.211.14: icmp_seq=3 ttl=58 time=42.682 ms
64 bytes from 216.58.211.14: icmp_seq=4 ttl=58 time=53.447 ms

--- google.com ping statistics ---
5 packets transmitted, 5 packets received, 0.0% packet loss
round-trip min/avg/max/stddev = 35.572/66.799/124.341/32.157 ms
/users/macbook/Projects: $
```


Setup

- Hent koden på canvas Eller <https://github.com/slytter/cbs-udp-pinger-lecture>
- Åben i jeres editor (vs code)
- Installer:
 - `npm install`
- Kør
 - `node server.js` (eller `nodemon server`) i et seperat konsol vindue
 - `node client.js` (eller `nodemon client`) i et konsol vindue



Kode gennemgang

Opgave 1

Client.js

- Udregn svar-tiden fra serveren ved brug af `Date.now()`
- Send 10 requests og udregn gennemsnits svartiden

Opgave 2

Opgave 2

Client.js

- Udkommenter koden i toppen af client.js
- Mål på svartiden i til hver endpoint

The background features a series of overlapping, stylized mountain peaks. The peaks are rendered in various shades of dark blue and navy, creating a sense of depth and layering. The overall composition is minimalist and modern.

Tak for i dag