# Contrôle du flux

SEQ

ACK

SEQ

ACK

SEQ

ACK

SEQ

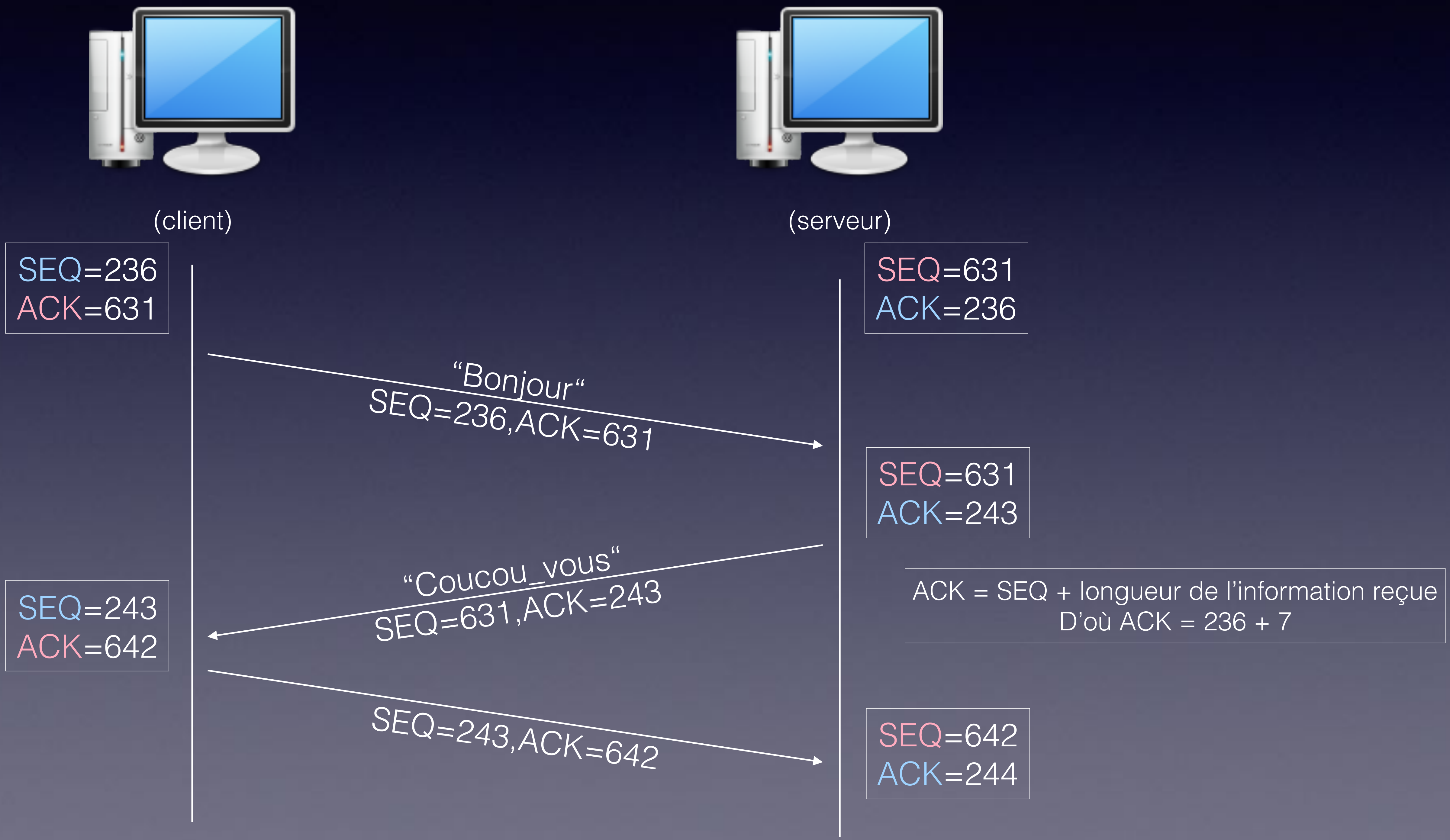
ACK

SEQ

ACK

# Le protocole TCP

## Contrôle du flux



(client)

(serveur)

SEQ=236
ACK=631

SEQ=631
ACK=236

“Bonjour“
SEQ=236,ACK=631

SEQ=631
ACK=243

ACK = SEQ + longueur de l’information reçue
D’où ACK = 236 + 7

“Coucou_vous“
SEQ=631,ACK=243

SEQ=243
ACK=642

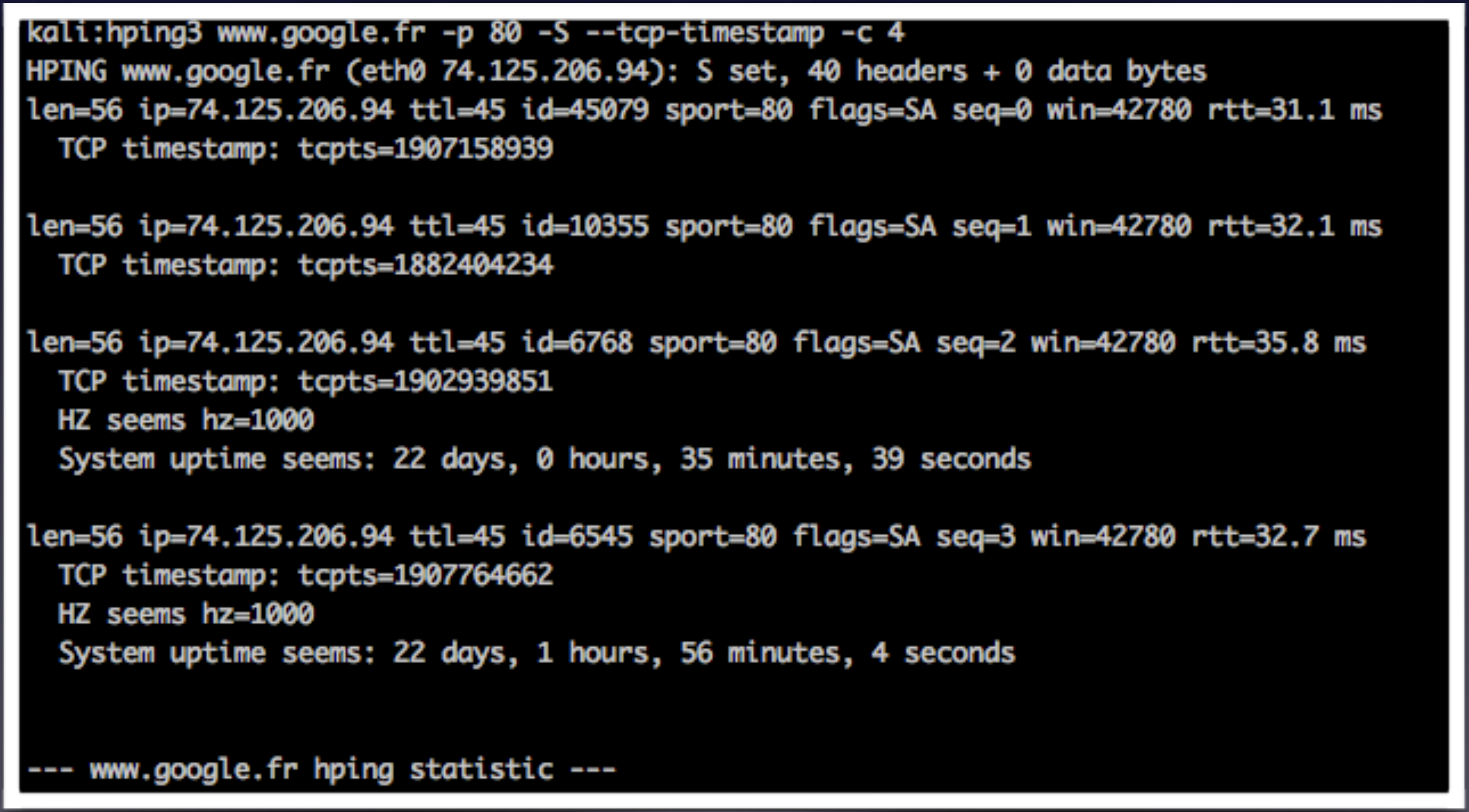
SEQ=243,ACK=642

SEQ=642
ACK=244

# Le protocole TCP

## L’option TCP Timestamp

- Permet de connaître le temps de fonctionnement d’une machine (uptime) et permet d’évaluer le nombre de machines.



```
kali:hping3 www.google.fr -p 80 -S --tcp-timestamp -c 4
HPING www.google.fr (eth0 74.125.206.94): S set, 40 headers + 0 data bytes
len=56 ip=74.125.206.94 ttl=45 id=45079 sport=80 flags=SA seq=0 win=42780 rtt=31.1 ms
  TCP timestamp: tcpts=1907158939

len=56 ip=74.125.206.94 ttl=45 id=10355 sport=80 flags=SA seq=1 win=42780 rtt=32.1 ms
  TCP timestamp: tcpts=1882404234

len=56 ip=74.125.206.94 ttl=45 id=6768 sport=80 flags=SA seq=2 win=42780 rtt=35.8 ms
  TCP timestamp: tcpts=1902939851
  HZ seems hz=1000
  System uptime seems: 22 days, 0 hours, 35 minutes, 39 seconds

len=56 ip=74.125.206.94 ttl=45 id=6545 sport=80 flags=SA seq=3 win=42780 rtt=32.7 ms
  TCP timestamp: tcpts=1907764662
  HZ seems hz=1000
  System uptime seems: 22 days, 1 hours, 56 minutes, 4 seconds


--- www.google.fr hping statistic ---
```