Lecture 8

Problem 3 CPU 1000 MIPS (Millioner instruktioner pr sekund)

64 bits pr Packet

1 Gbps transmit rate

Packet takes 10 instructions

4 copies of each packet

$$\frac{1\,Gbps}{64\,bits} = 15.62\,M\,packets/s$$

$$4 \cdot 15.62\,M\,packet/s = 62.5\,M\,packets/s$$

$$10 \cdot 62.5\,M\,packets/s = \underline{625\ MIPS}$$

62.5% CPU tid

Problem 4

a) Explain why this is the case

- Limitazation of IPV4
  - Number of addresses in 32-bit versus 128 bit IPV6

b) if ACK HIGH
then READ 32 bit ACK FIELD
else
DO NOT READ 32 bit ACK FIELD
end "; // Silencio :3