

# CS253 HW5

**Q1:** What is the maximum number of 500-byte ICMP echo request packets a single zombie PC can send per second?

$$\frac{128kb}{500byte} = \frac{128 \times 1000}{500 \times 8} = 32$$

**Q2:** If the packet size is 1000 bytes?

$$32 \times \frac{500}{1000} = 16$$

**Q3:** Or 1500 bytes?

$$32 \times \frac{500}{1500} \approx 10$$

**Q4:** How many such zombie systems would the attacker need to flood a target organization using a 8-Mbps link?

$$\frac{8Mbps}{128kbps} = \frac{8000kbps}{128kbps} \approx 63$$