

# Q & A - 1

COMP2001J Computer Networks

Dr Shen WANG (王燊)

# Questions

- For circuit switch, if the bit rate on a link is 1Mbps, 100kbps has to be reserved for each user, this link is current used by 10 users, so if the 11<sup>th</sup> user comes, the packet loss will then occur?
- From the component perspective, can I say that the hardware component of Internet are miscellaneous end systems and the software component of Internet are communication link and packet switch?

# Questions

- I make a conclusion to describe the Internet which provides end systems with service, which is that the Internet is a medium platform to support the data transferred among end systems, and the Internet does not care about end systems themselves but only the data. I wonder is it right?
- What is the difference between Ethernet and LAN, can I regard them as the same thing?

# Questions

- Ignoring the queuing delay, if there are  $N$  communication links which transmission rate is  $R$  between the source end system and destination system, and  $P$  packets are supposed to be transferred. Does the time delay between the two end systems is  $(N+P-1)/R$ ?
- I do not understand what is Point of Presence and its usage in the network of networks structure, would you mind explaining it in more details?

# Questions

- In circuit switching network, whether the communication link in a path would pass the core network? Because an end-to-end connection is supported through a circuit in circuit switching network, I am curious whether this kind of network is restricted by geographical area. For instance, two end systems in two different countries would not choose circuit switching network.

# Next few weeks

- NO live sessions unless highly required
  - Low attendance
  - Duplicated questions
- Every Tuesday morning, a lecture and a Q&A recordings will be uploaded
  - Send your questions to [shen.wang@ucd.ie](mailto:shen.wang@ucd.ie) beforehand
- Chapter 2 Application Layer (Week 3, 4)
  - A quiz to be completed each week
- Chapter 3 Transport Layer (Week 5, 6, 7)
  - A lab assignment (Wireshark) to be completed each week