

Computer Networks and Distributed Systems

Exercise Sheet 2

Exercise 2.1 Packet switching and circuit switching:

- a) Compare packet switching and circuit switching in networks. What are the advantages and disadvantages of the two strategies for different applications?
- b) Packet switching can be further divided into connectionless and connection-oriented services.
 - 1) What are the differences?
 - 2) Can circuit switching networks be distinguished in the same way?

Exercise 2.2

Compare the ISO/OSI reference model and the TCP/IP protocol stack. What are the main differences? What are the advantages and disadvantages of the two models?

Exercise 2.3

Explain the different meaning of the terms protocol, service and layer.