

1996 Paper 8 Question 2

Digital Communication II

Discuss the techniques which an efficient transport layer protocol might use to determine when to (re)transmit a packet. [10 marks]

Under what circumstances might such a protocol not make full use of an available window at a receiver? What effect would this have on remote logins and file transfer connections? [5 marks]

The memory buffer capacity of a certain bottlenecked router in the Internet is much less than one packet per connection traversing it. What effects will this have on TCP? [5 marks]