Networked Life: 20 Questions and Answers

by Mung Chiang

Chapter 13: How does traffic get through the Internet?

Problems

13.1 Packet switching *

(a) Statistical multiplexing

Suppose you have a 10 Mbps link shared by many users. Each user of the link generates 1 Mbps of data 10% of the time, and is idle 90% of the time.

If we use a circuit switched network, and the bandwidth allocation is equal, how many users can the link support? Call this number N. Now consider a packet switched network. Say we have M users in total, and we want the probability of a user being denied service to be less 1%. Write down the expression that must be solved in the form of f (M, N) < 0,01. Solve this numerically for M. (Hint: Use the binomial CDF.)

(b) Resource pooling

We will consider modeling a shared resource and see what happens when both the demand for the resource and ability to fulfill requests increases. Suppose we have n servers. When a request comes in, a sever answers the request. If all

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Puja Mehta

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