Computer Networks Group

University of Göttingen, Germany

# Homework #10

(Due on 12:00am, Thursday, Jan 14, 2010)

**What are the four building blocks of Quality of Service?**

**Name and characterize four scheduling policies that were introduced in the lecture.**

**What are the criteria that policing mechanisms can use to control a data stream?**

**Illustrate in what sequence packets from three different queues (a, b, c) can be sent from a sending buffer that implements a WFQ scheduling policy. Suppose the weights for the queues are 0.25, 0.25, and 0.5. How could the sequence look like if there are no packets in queue 'c'?**

**Consider a token bucket that is filled with a rate of 1,000 tokens/min and has a size of 500 tokens. Each bit of data consumes one token. Does a flow of 20bps conform to this bucket?**

**Illustrate how a voice call is established using the Session Initiation Protocol.**

**Briefly compare the IntServ to the DiffServ architecture.**