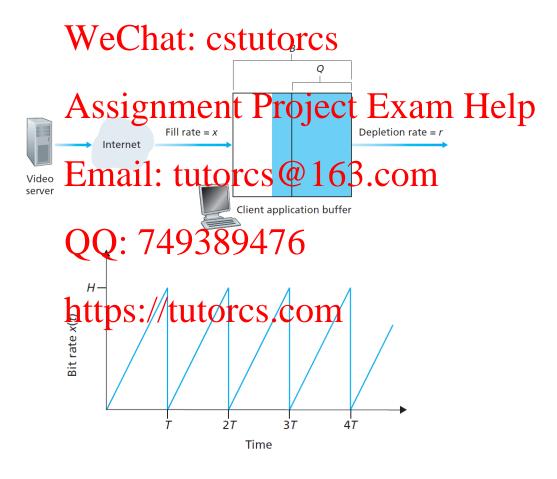
COMP 5416 Week 7 1. Recall the simple model for HTT streaming that as CLS with different size of the client's application buffer, and Q denotes the number of bits that must be buffered before the client application begins playout. Suppose the buffer size is infinite but the server sends bits at variable rate x(t). Specific that x(t) has the following saw-tooth shape. The rate is

variable rate x(t). Spe (t) has the following saw-tooth shape. The rate is initially zero at time t has the following saw-tooth shape. The rate is initially zero at time t has the following saw-tooth shape. The rate is initially zero at time t has the following saw-tooth shape. The rate is initially zero at time t has the following saw-tooth shape. The rate is initially zero at time t has the following saw-tooth shape. The rate is initially zero at time t has the following saw-tooth shape. The rate is initially zero at time t has the following saw-tooth shape. The rate is initially zero at time t has the following saw-tooth shape. The rate is initially zero at time t has the following saw-tooth shape.

(1). What is the serve

(2). Now suppose Q ine as a function of Q, H, and T the time at which playback first begins.

(3). Suppose H > 2r and Q = HT/2. Prove there will be no freezing after the initial playout delay.



2. Consider the figure below. A sender begins sending packetized audio periodically at t = 1. The first packet arrives at the receiver at t = 8.

(2). If audio playout begins as soon as the first packet arrives at the receiver at t = 8, which of the first eight packets sent will *not* arrive in time for playout?

(3). If audio playout loss of the first eight packets sent will not arrive in time for playout?

(4). What is the minited the first eight packets arriving in time for the first eight packets.



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