

CS 410/510 Introduction to Multimedia Networking, Fall 2015

Homework #5

Assigned: Nov. 16, 2015

Due: BEGINNING OF CLASS Mon. Nov. 23, 2015

HARDCOPY ONLY

1. Suppose we have a number of tasks that we need to run in a real-time system using the Rate Monotonic Scheduling algorithm with the following requirements:

τ_i	T_i	C_i
1	10	1
2	30	2
3	25	2
4	8	1
5	15	2

Is this task set feasible? If it is, what priorities should be assigned to the tasks (label the highest and lowest priority).

2. Using Wikipedia, look up IPv4, UDP, and RTP packet header formats. A source is sending an RTP packet across the network...

What additional information does UDP add to the IP packet?

What additional information does RTP add to the UDP packet (only include fields with > 1 bits)?

What order do the IPv4, UDP, and RTP packets occur in?



X = IP, UDP, RTP ?

Y = IP, UDP, RTP ?

Z = IP, UDP, RTP ?