HKUSTx: ELEC1200.3x A System View of Communications: From Signals to Packets (Part 3)

Lab 3 Task 1 Question on Throughput

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discussion posted about 10 hours ago by KarenWest

I followed the lecture formula for Throughput for Stop and Wait Protocol with packet loss:

```
T = RTT + (L/(1-L))*RTO
```

Does anyone know what's wrong? Is it my RTT calculation? I thought the number of packets successfully transmitted was receiver_packet_list (ACK's), and that each simulation time was a time slot (getSimTime() for all packets transmitted successfully), and that RTO was the time_out, and L = p_loss (probability of packet loss in stop and wait protocol).

RTT = length(receiver_packet_list) / getSimTime();

throughput = RTT + ((p_loss/(1-p_loss) * time_out));

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1 response

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- Lab 3 Task 1 Question on Throughput 3
  ★ FOLLOWING
- Sliding window protocol 1
- Lab 3 too easy 1
- ? 6.3 QUIZ QUESTION 1 2
- ? Application of FDM 1
- ? Errata on Handout 6/10 ? 3
- Lab Task 2
- Lab 2 Task 3 4
- ? Countdown timer 1
- [STAFF] Error: "There was a failure entering the grade in 7

sraut

about 6 hours ago

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Hello KarenWest,

The expression for throughput is number of packets successfully transmitted in the given duration. The given duration is total simulation time in this case. If you read the instruction carefully then you can easily find another variable in the code. You do not need any other formula to get the answer.

Hope this helps

Regards

Thank you sraut! Within 1 minute of reading your response, I re-read the description, and saw my error, and it now works. The reason for a 6 hour delay since I responded to you? Snow storm, school cancellation for my kids, and power outage here for 4-5 hours! Power is now back on and I can finish my homework. ;-)

posted less than a minute ago by KarenWest

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the gradebook. Please resubmit."

- [STAFF] Lab2 Task 1 - Grader reports error 5
- Lab2 Task 4 5
- ? [STAFF] Lab 2 Task 2 4
- Lab2 -Task 2 4
- Lab 2 Task 3 Question - almost there? 9
  FOLLOWING
- Lab 2 - Lack of feedback in the labs 3
- Lab2 -Task 3 4
- ? Cost function symmetric? 3
- ? How does A determine costs to B, C? 3
- Lab 2 Task 3 6

Load more