

EECS 489 - Winter 2024

Discussion 8

Assignment 3 is out!

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- **Due Date: Wednesday, March 27th @ 11:59 pm EDT**
- Make sure to run your code in the VM
 - Uses the same one as Assignment 2
 - Only need Mininet for this assignment
- Considered the easiest of the three group assignments

Today

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- Assignment 3
 - Demo Code
 - Hints
 - Tips

Assignment 3: Demo Code

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- UDP Example!
 - <https://github.com/mosharaf/eecs489/tree/w24/Discussion/udp-example>

Assignment 3: Hints

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- WTP-Base
 - Part 1 and Part 2 of the assignment
- The sender and receiver should work in the following conditions:
 - Timeouts/Large amounts of latency (100's of ms)
 - Packet loss
 - Packet Corruption
 - Multiple File Transfers within the runtime/lifespan of a single receiver
 - Large binary/text file transfers (video, movie script, etc.)

Assignment 3: Hints

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- WTP-Opt
 - Part 3 of the assignment
- The sender and receiver should work in the following conditions:
 - Same conditions as last slide
 - ACKs should have precisely the same seq as what was sent
 - Packets that have been ACK'd should not be retransmitted
- In general: Make sure the expected “optimizations” are observable
- **Do not use TCP sockets, the AG knows when you are doing this!**

Assignment 3: Main Tips

- The best way for testing is to:
 - Run the code inside the VM (use mininet)
 - Test sending with binary files (usually can cause the most issues) rather than just text files
- You will want to ensure you have an efficient implementation, as our tests will fail you if you are taking too much time!
 - Try different levels of throughput/latency
 - Can test with randomly dropped/ignored packets
 - Much more work to implement, but can help!

Wrap-Up

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- Thanks for coming!
- Start Assignment 3 soon!