

Progress Report 8

Stuart, Walt, Dan

Next Goals and Deliverables

- Finish debugging error correction with init link layer implementation - Dan
- Write method signature for hamming (7,4) error correction to be used in network layer - Dan
- Work on send portion of network layer - Walt
- Work on receive portion of network layer - Stuart
- Continue routing table application layer - Walt/Stuart

Previous Goals and Deliverables

- Fully test link layer (DONE) - group
- Draw out rough draft packet design (DONE) - group
- Agree on rough network design (DONE) - group
- Implement error correction code (ALMOST DONE) - Dan
- Implement git locally on our thumbdrives (DONE) - Stuart
- Begin modifying code to receive packet structure (ALMOST DONE) - group
- Start adding error checking in packet data (IN PROGRESS) - Dan
- Implement waveform functions w/ bit shifting (ON HOLD UNTIL DEEMED NECESSARY) - Stuart

Discussion

- Today, after some github merging issues we confirmed our bidirectional send and receive works continually. Our massive refactor yesterday was a lesson in the importance of gradual pushes instead of full overhauls.
- Dan continued debugging his error correction code. Merging code created some new issues. Phantom 0s are consistently showing up in the same indexes. By the end of class tomorrow he is confident this algorithm will be done and he can begin refactoring it to work with the packet based transmission system we are moving towards.
- After discussing its high-level architecture, we delegated roles for developing the network layer. Tomorrow we will work extensively on building the first iteration of it by transmitting basic packets with error correction.