

Progress Report 9

Stuart, Walt, Dan

Next Goals and Deliverables

- Encapsulate header/footer creation into link layer - Walt
- Encode packets using uint8t bytes - Walt
- Transition from reading bits as characters to bitmasking using uint8t bytes. - Stuart
- Change Hamming encoding to 8-5 and working with uint8t. - Dan

Previous Goals and Deliverables

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

Discussion

- We are having to make large refactoring changes to our code now that we are on the network layer. Previously, we had worked entirely in characters, but are realizing it will be much cleaner and more efficient to work entirely in 8-bit integers, where we use bit masking to represent bits.
- We have a good understanding of how our code is working now, and once we get the bit masking to work we are hopeful that it will be easy to write the packets into memory and handle subsequent actions appropriately.
- This is an unfortunate setback in actually getting our network to communicate, but we believe the logic is much cleaner and more efficient with memory, so the updates to our bit reading process will be worth it in terms of making our final product more understandable.