Progress Report 7

Stuart, Walt, Dan

Next Goals and Deliverables

- Fix error correction - Dan
- Fully test link layer - Walt/Stuart
- Implement waveform functions w/ bit shifting - Stuart
- Begin work on network layer implementation - Walt
- Begin routing table application layer - Walt

Previous Goals and Deliverables

- Finish parallel read/write (DONE)- Stuart/Walt
- Implement error correction code (ALMOST DONE)- Dan
- Begin modifying code to receive packet structure (ALMOST DONE) - group
- Start adding error checking in packet data (ALMOST DONE) - Dan

Discussion

- Today we refactored the send/receive functions to only make one callback function instead of calling it each time. This allowed us to reduce overhead and elimiante timing errors. Now we only have small errors that should be resolved by the error checking code.
- We refactored many functions into larger classes to decrease on complexity. This was a bit of a mistake, as we combined a refactored with debugging functionality and adding error checking, which led to a lot of confusion.
- So far, we have achieved simultanious transmission at low BAUD rates (100 tested). We are going to test higher rates to see how fast we can go.
- Dan did an amazing job implementing Hammings error detection code. We started testing it this evening but it had a few errors. It should be done tommorow.
- We are going to start working on the network layer tommorow. We are going to start with the logic for routing, then move to a static routing table.