Status report

Currently my program implements all of the requirements for the assessed exercise as far as I understand them. I have documented the code appropriately and hope things are clear. My simulator simulates network exchanges between network nodes which use the a very simple RIP-based “protocol” for best route calculation and package navigation. The simulator has the ability to

- Compute routing tables for any preset number of exchanges or until stability is achieved
- Simulate network link cost change during the simulation
- Output the best available route from one node to another at specific times in the simulation
- Output the routing tables of specified nodes for a specified number of exchanges
- Engage, on request, split-horizon heuristic

Limitations

The current simulator implementation does not support direct usage of any other routing protocol except the simple RIP-based protocol. It also features a very ugly command-line interface which will make simulating and tracing big networks very difficult, however I hope it is enough to prove my understanding of the subject and that the simulator works.

Future work

If I had more time I would like to make the program much more modular so that different implementations of the unique components could be used. Also I would like to include a GUI and animations which will better illustrate what gets passed and when, or at least beautify the command-line output.