MQP Meeting minutes

Date and Time	Saturday 26 September 2013 at 2:00 pm
Venue	Craig's Office
Participants	Curtis, Craig, Krishna, Dan

Item	Notes and Discussion
Much success with python	• Python has been wonderful. Lots of good python proxies out there, some better supported then others. • Twisted proxy was the best of all of these, with the most documentation out there by far. • Twisted allows you to override any of its underlying classes with the functionality that you want. This makes the library super extendible. • Cool network tool: Scapy, uses raw sockets to craft IP/TCP packets with automatic checksum calculations. Very robust and promising for packet manipulation.
File Size Division	• Express your available bandwidth as the average of your peers. Divide chunks up by $\frac{peer.bandwidth}{netBandwidth} \times fileSize$ and recursively subdivide. • Sometimes the simplest approach is the most robust. Revised plan - divide the file into very thin chunks, that can be poped off and sending to each router as available in a fire and forget manner. • Implement the dumb before thinking about client side request division algorithms.
Writting and Logistics	• Google docs for LaTeX would be nice. • Be sure to write about everything design related. Include a related works section in the full report. • Craig explains Craig's grading schema. Brain-dump deliverable near the end of A term.
For Next Week	• Work on http range splitting with the naieve approach to prove this can work. • download many small chunks and transmit over a persistent TCP connection between each router. • Related works (bandwidth aggregation, golf cart wifi) writeup (3-5, but no more then 10 pages).