WRITEUP:

Testing:

For this assignment, I tested a little differently. I had a good grasp of what the outline of my code should have looked like, so I actually coded the whole assignment out, and then went into testing. I performed a variety of test similar to the ones I did in assignment 2, just changing the port so that request were sent to the load balancer, and not the httpserver. My program passed all the tests in testing kit made by the students, and a couple tests that I did on my own. However, for some reason, whenever I thought I fixed, some thing, it resulted in an error on the git tests for the assignment, so there's not much I can say. I performed tests with a variety of PUT, GET and HEAD calls, and also ran my load balancer without any servers running, to make sure that it was just looping and sending internal error responses to the clients.

I failed tests 11 through 15 on the git tests, and I was never able to figure out why, as whenever I ran tests like that on my local machine, they seemed to work. This is true about most of the multi threading tests, as I never figured out why they don't work on the git assignment tests, as they always work locally for me.

Questions:

1. We never checked the performance of the machine as that may have made the assignment a lot harder.
2. You could tell if the client request would fail a lot sooner, increasing the speed on faulty requests. The cost would be a constant increase in time as we would have to always parse the request, which would cost some time.
3. My program always acts wacky when I try doing this test, as I don't have enough memory to run it properly. The best I got was 4 curl request to run, and that took strangely only 0.1 seconds using time, which seems obviously wrong to me, but I think it's because the vm acts weird. Whenever I try to run it, my program gets terminated somehow, and the error I get is connection reset by peer, which means that my program got reset by another program, but I don't know what did that.
4.