

SLOXY USER MANUAL

How to compile:

- i. Once sloxy.c is downloaded to the designated folder, open your terminal.
- ii. Go to the directory in which sloxy.c is located.
- iii. Type in the terminal:
 - a. `gcc -o sloxy sloxy.c`
- iv. This will print out some warnings, but it should be fine. The sloxy.c program is now compiled.

How to configure:

- i. Open firefox (or preferred browser) and go to settings.
- ii. Locate the proxy settings. For firefox, navigate to preferences, then type proxy in the search bar at the top right corner. This will show Network Proxy, press the Settings... button.
- iii. Click on the Manual Proxy Configuration. Then fill in:
 - a. HTTP Proxy = 127.0.0.1
 - b. Port = 9775 (or see the value of SERVERPORTNUM in the sloxy.c program)
- iv. If there is some text in the “No Proxy for” box, delete it.
- v. Then click “ok”.

Your web browser is now configured to use sloxy.c proxy.

How to use the sloxy:

- i. Once the web browser is configured, run the the sloxy in the terminal by typing: `./sloxy`. In the browser, type in any one of the test file links below and press ENTER:
 - a. <http://pages.cpsc.ucalgary.ca/~carey/CPSC441/test0.txt>
 - b. <http://pages.cpsc.ucalgary.ca/~carey/CPSC441/test1.html>
 - c. <http://pages.cpsc.ucalgary.ca/~carey/CPSC441/test2.html>
 - d. <http://pages.cpsc.ucalgary.ca/~carey/CPSC441/test3.html>
- ii. This should show the contents of the test files. Having a. the fastest loading time and d. the slowest loading time.

The testings were done:

- i. In the Unix computer labs.
- ii. Student Laptop running Ubuntu in Virtual Box.

What works:

- i. This works in loading the 4 test files for the assignment.
- ii. This works in loading a 404 File Not Found Request.

- iii. This works in loading a 200 OK and 206 responses.
- iv. This works in loading 304 Not Modified response.
- v. This works in loading 301 and 302 responses.
- vi. This can parse the HTTP requests and responses.
- vii. Can identify when HTML files are being requested, which control decisions that limit the content delivery speed for such pages.
- viii. This can load the pages.cpsc.ucalgary.ca/~carey/CPSC441/ website and interact in a simple way. Note: not all elements are loaded.

What doesn't work:

- i. This cannot handle too complicated websites with ease. Might get all sorts of errors and bugs.
- ii. This can sometimes be waiting for a response from the Web Server for a long time if tried on too complicated websites. Restarting the sloxy program can fix this.