

Multi-Process Multi-Threaded Webserver User Manual

1. Compilation

In order to compile the webserver a Makefile is made available to facilitate this process. The makefile contains the following targets:

- make all: Build the server executable
- make clean: Remove object files and executables
- make run: Build and start the server
- make test: Run automated tests

2. Configuration

It is available, at the root of the Webserver folder, an editable **server.conf** file that holds all custom configurations for this file.

This includes:

1. The port of the server
2. The folder where the files the server can serve are located
3. The total number of Worker processes
4. The number of threads per thread pool
5. The max size of the shared memory queue
6. The log file
7. The cache size

3. Execution

To run and use the webserver first compile the server executable using the instructions above, then run it by executing `./server` in your terminal. Once running, the server will wait for incoming requests and handle concurrent loads automatically.

To make a request to the server head to <http://localhost:8080> and input your request on the provided searchbar, or alternatively head directly to the link above and add a `/*Your request*` in the end to skip the index page