

CMPUT 379 Assignment 2, Log Format

Your server must log successful and failed requests in a specific format.

A request is successful when the client asks for a file, and the file is found and the entire file is successfully written to the socket that the client is connected to. Anything else indicates is an error.

For each request, the time of the request must be recorded as it is completed (successfully or not), as well as what happened, this can be "200 OK BYTES_WRITTEN/TOTAL_BYTES" for a file send, or the HTTP error code for other errors. Note that this means that if the client disconnects before the entire file can be written out on the socket, BYTES_WRITTEN may be less than TOTAL_BYTES which would be the size of the file.

Log format must be:

```
Date[tab]Client IP address[tab]request line[tab]response code
```

Note that [tab] is the ASCII character whose value is 9. So the log must look like this, with the correct current date

```
Tue 05 Nov 2013 19:18:34 GMT    127.0.0.1    GET /testDocument.txt HTTP/1.
1    404 Not Found
Tue 05 Nov 2013 19:18:34 GMT    127.0.0.1    GET /favicon.ico HTTP/1.1    404
Not Found
Tue 05 Nov 2013 19:18:34 GMT    127.0.0.1    GET /favicon.ico HTTP/1.1    404
Not Found
Tue 05 Nov 2013 19:19:59 GMT    127.0.0.1    GET /testPermission.txt HTTP/1.
1    200 OK 53/53
Tue 05 Nov 2013 19:20:30 GMT    127.0.0.1    GET /testPermission.txt HTTP/1.
1    200 OK 53/53
Tue 05 Nov 2013 19:21:09 GMT    127.0.0.1    GET /testDocument.txt HTTP/1.
1    200 OK 22/22
Tue 05 Nov 2013 19:21:20 GMT    127.0.0.1    GET /testDocument.txt HTTP/1.
1    200 OK 22/22
Tue 05 Nov 2013 19:21:27 GMT    127.0.0.1    GET /largefile.txt HTTP/1.1    2
00 OK 8478/8478
```