1. Is your browser running HTTP version 1.0 or 1.1? What version of HTTP is the server running?

A close up of a computer

Description automatically generated

Both are running HTTP 1.1

1. What languages (if any) does your browser indicate that it can accept to the server?

A black and white text on a black background

Description automatically generated

US English

1. What is the IP address of your computer? Of the gaia.cs.umass.edu server?

A screenshot of a computer

Description automatically generated

134.117.247.196, and 128.119.245.12 respectively

1. What is the status code returned from the server to your browser?

A close up of a computer

Description automatically generated

200 OK

1. When was the HTML file that you are retrieving last modified at the server?

A blue and white numbers

Description automatically generated with medium confidence

14:00:18.067454

1. How many bytes of content are being returned to your browser?

A screenshot of a computer

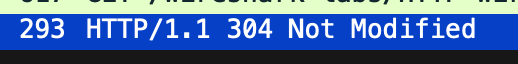
Description automatically generated

1. By inspecting the raw data in the packet content window, do you see any headers within the data that are not displayed in the packet-listing window? If so, name one.

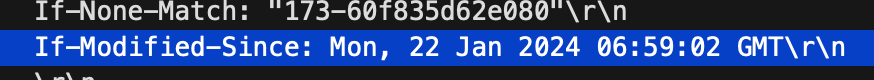
A screen shot of a computer

Description automatically generated

1. No it does not.
2. Inspect the contents of the server response. Did the server explicitly return the contents of the file? How can you tell?



The file is not modified so the text is not sent.



1. What is the HTTP status code and phrase returned from the server in response to this second HTTP GET? Did the server explicitly return the contents of the file? Explain.

304

1. How many HTTP GET request messages did your browser send? Which packet number in the trace contains the GET message for the Bill or Rights?

A screenshot of a computer

Description automatically generated

10

1. Which packet number in the trace contains the status code and phrase associated with the response to the HTTP GET request?

11

1. What is the status code and phrase in the response?

200 OK

1. How many data-containing TCP segments were needed to carry the single HTTP response and the text of the Bill of Rights?

5

1. How many HTTP GET request messages did your browser send? To which Internet addresses were these GET requests sent?

A screenshot of a computer

Description automatically generated

Each of the 5 were at different routers

1. Can you tell whether your browser downloaded the two images serially, or whether they were downloaded from the two web sites in parallel? Explain.

They happen in parallel. If you look at the times in between you get response methods before the next GET messages.

1. What is the server’s response (status code and phrase) in response to the initial HTTP GET message from your browser?

401 Authorization Required

1. When your browser’s sends the HTTP GET message for the second time, what new field is included in the HTTP GET message?

Authorization: Basic: field