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

Answer: Client: HTTP/1.1

Server: HTTP/1.1

1. What languages (if any) does your browser indicate that it can accept to the server? en-US (US English) as shown in prior screenshot

Answer: English, The United States Version

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

Answer: At the time of doing the first few questions the, Client IP address: 192.168.1.102; Server IP address: 128.119.245.12 but then I lost connection so I used the zip file.

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

Answer: 200 OK

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

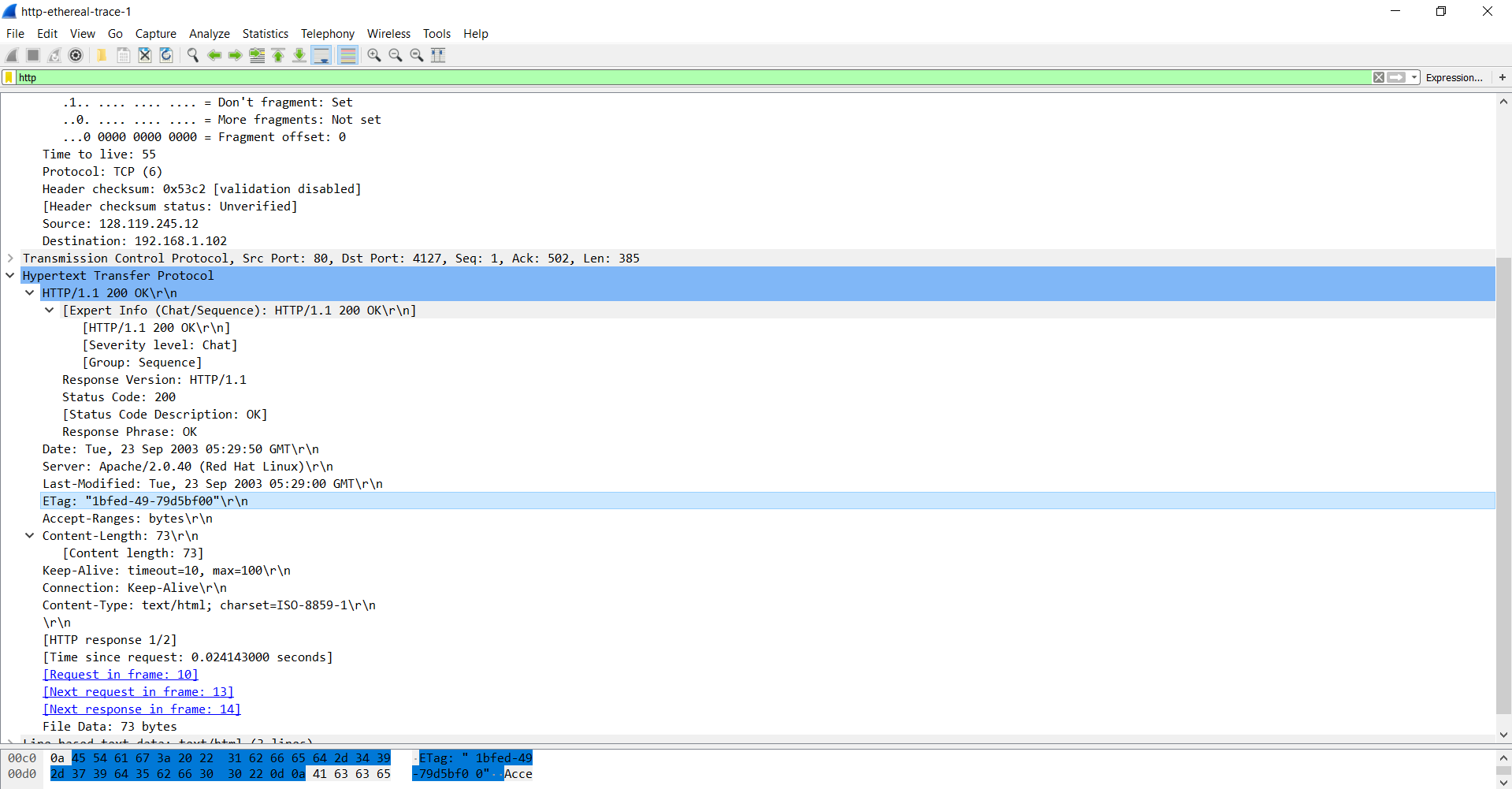
Answer: Tue 23 Sep 2003

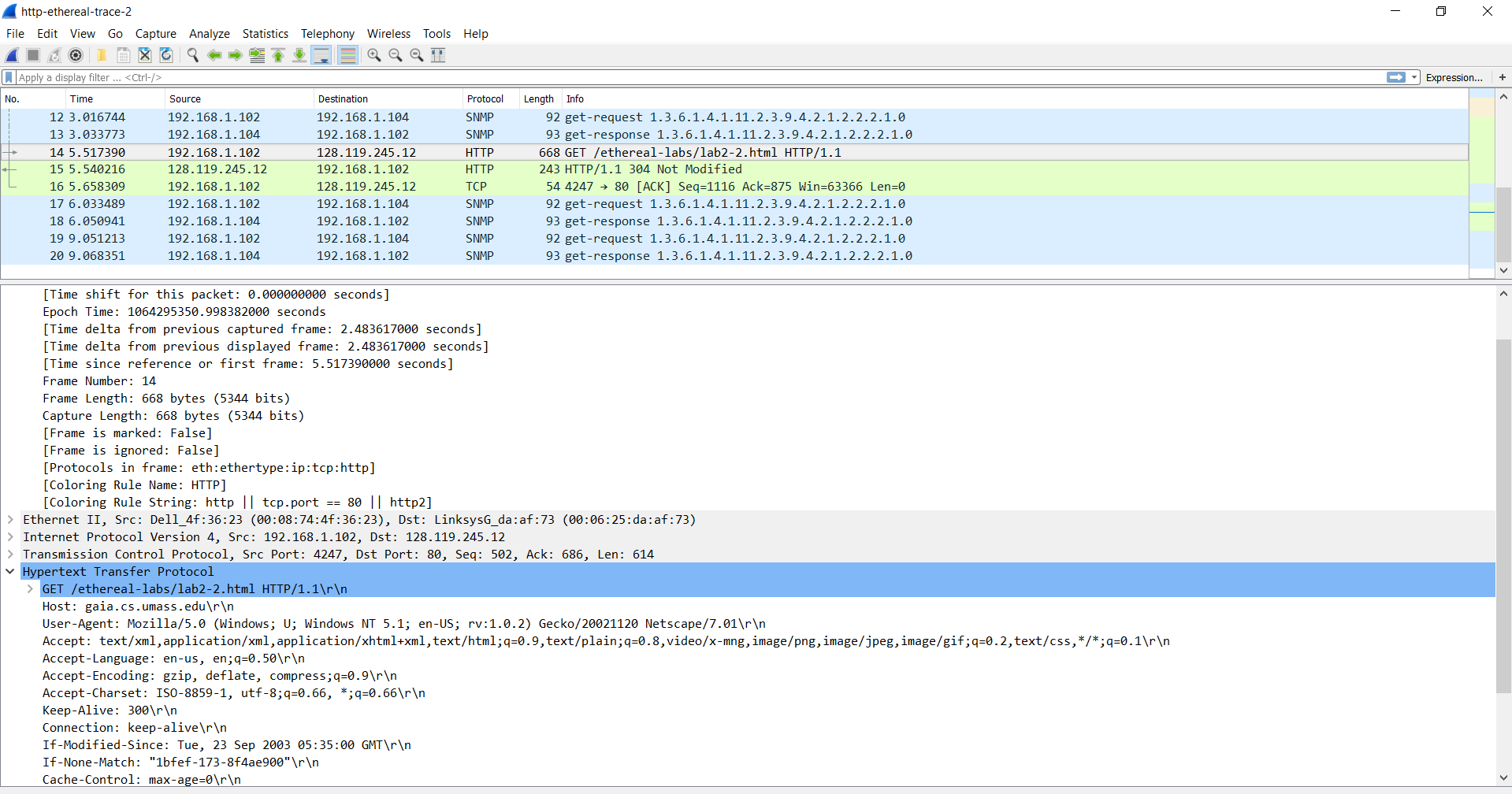
1. How many bytes of content are being returned to your browser?

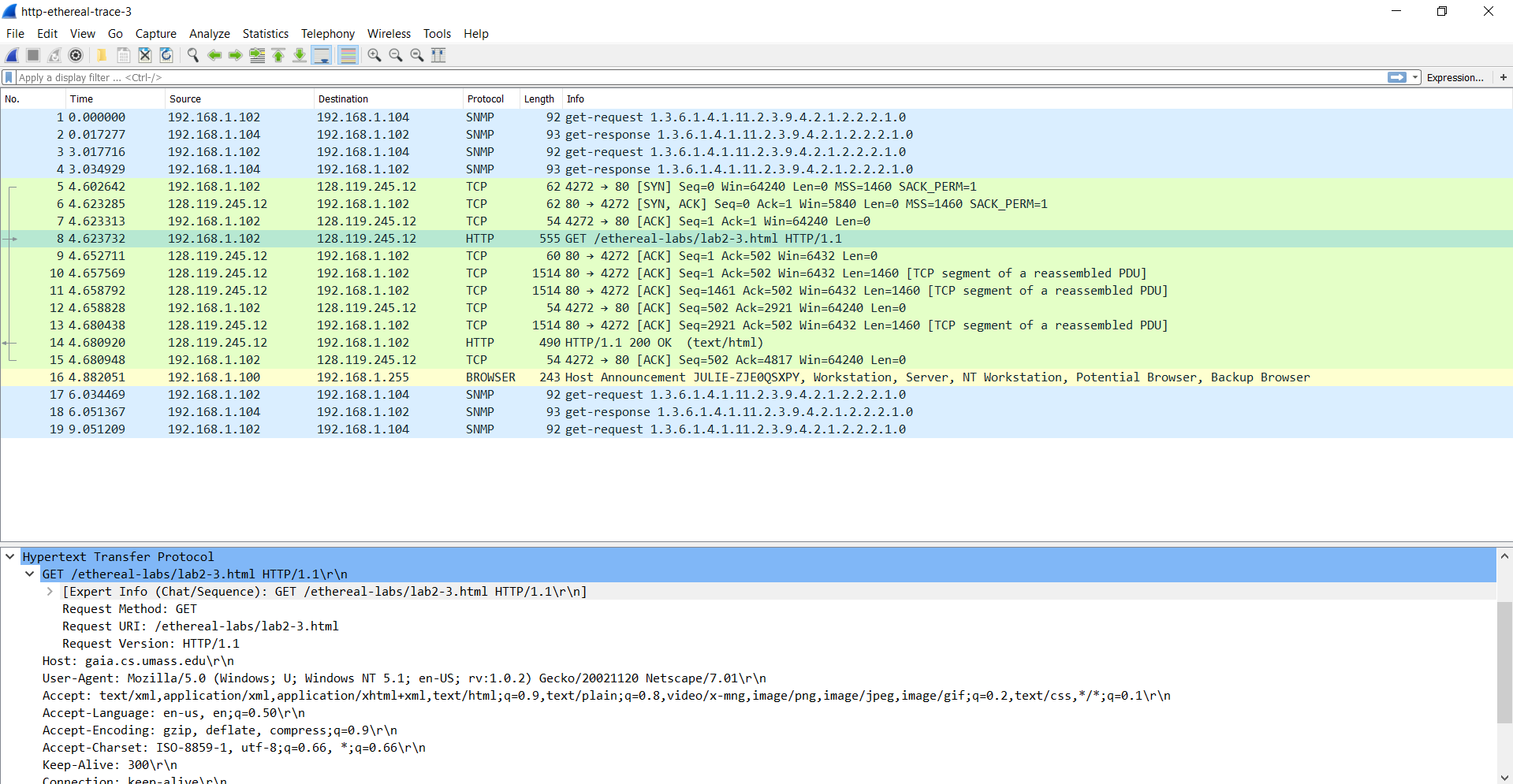
Answer: 73

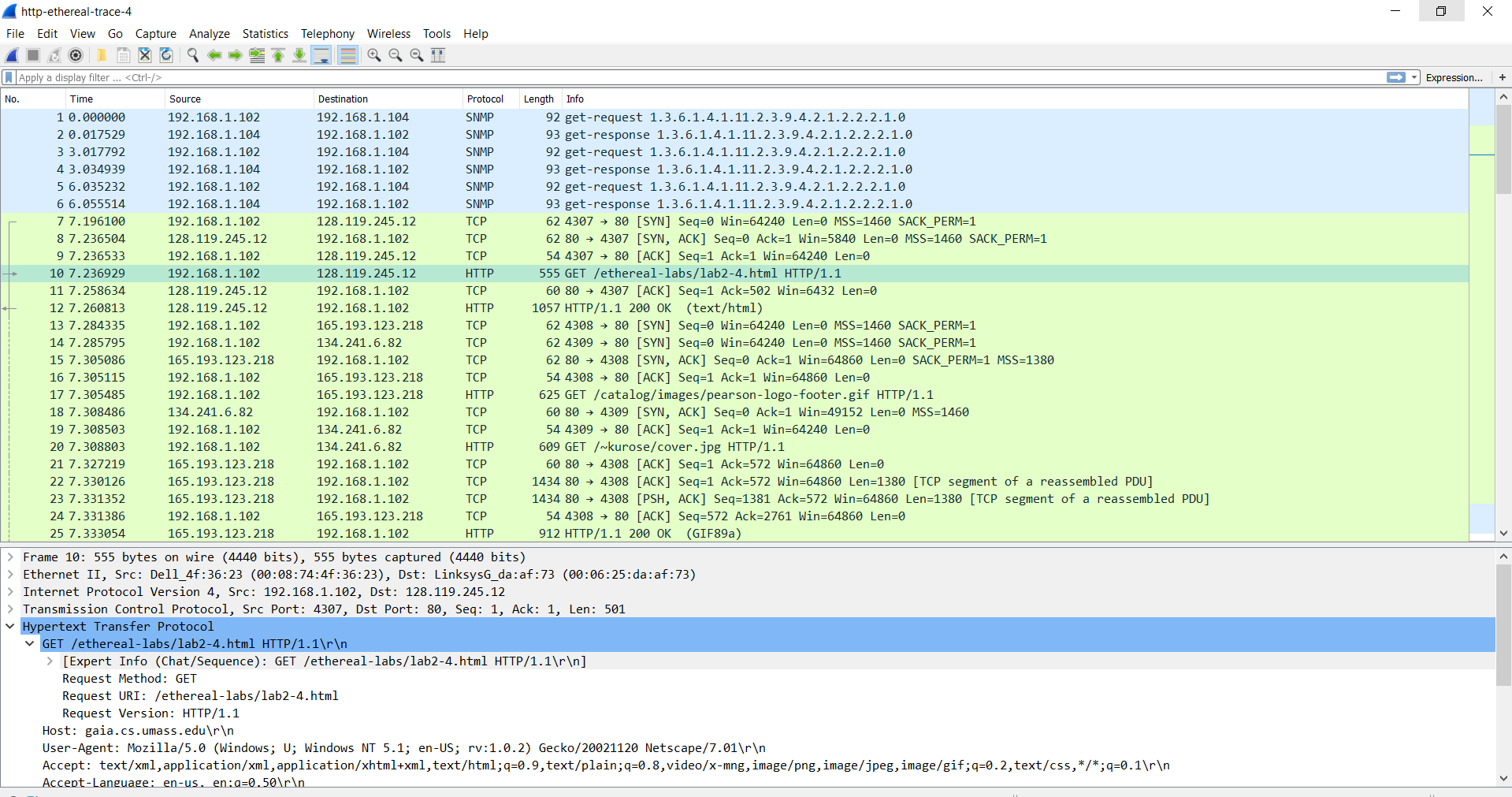
1. By inspecting the raw data in the packet content window, do you see any headers within the data that are not displayed in the packet-listing window?

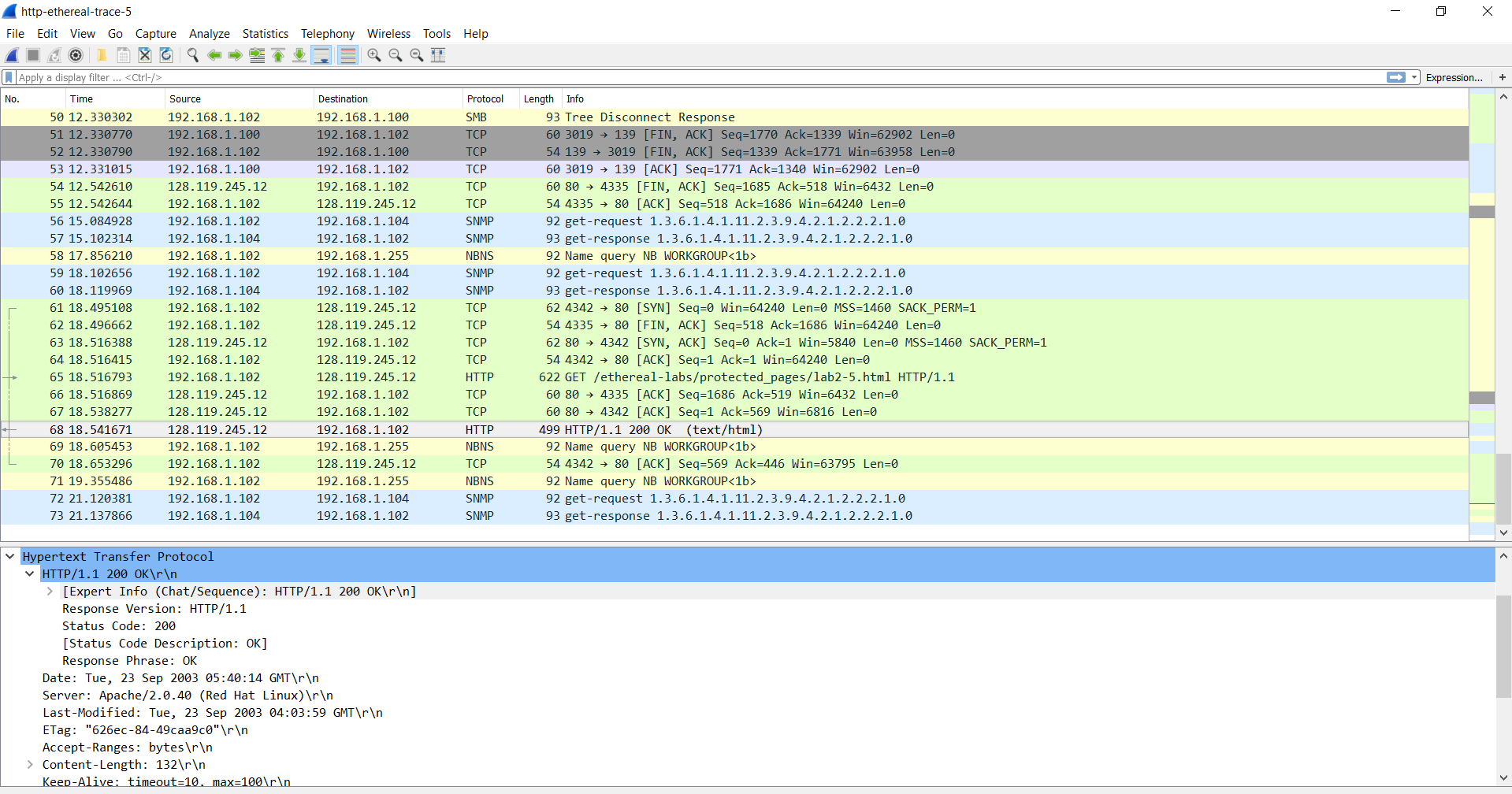
Answer: I saw the exact same thing











1. Inspect the contents of the first HTTP GET request from your browser to the server. Do you see an “IF-MODIFIED-SINCE” line in the HTTP GET?

Answer: Cannot see any

9. Inspect the contents of the server response. Did the server explicitly return the contents of the file? How can you tell?

Answer: Yes , since the contents are visible

10. Now inspect the contents of the second HTTP GET request from your browser to the server. Do you see an “IF-MODIFIED-SINCE:” line in the HTTP GET? If so, what information follows the “IF-MODIFIED-SINCE:” header?

Answer; "If-Modified-Since: Tue, 23 Sep 2003 05:35:00 GMT" -- Date of the last modification of the file

from the previous get request

11. 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.

Answer: Status Code, HTTP/1.1 304 Not Modified.

Short Phrase, the server didn’t return the contents of the file since the browser loaded it from its cache

12. How many HTTP GET request messages were sent by your browser (again, ignoring requests for favicon.ico)?

Answer: I only got 1

13. How many data-containing TCP segments were needed to carry the single HTTP response?

Answer: There were 4 data containing TCP segments containing 1064 ,1380 ,1380 and 679 bytes respectively for a total of 4500 bytes.

14. What is the status code and phrase associated with the response to the HTTP GET request? Answer: Answer: 200 OK

15. Are there any HTTP status lines in the transmitted data associated with a TCP induced “Continuation”?

Answer: No

16. How many HTTP GET request messages were sent by your browser? To which Internet addresses were these GET requests sent?

Answer:

1. 128.119.245.12
2. 165.193.123.218
3. 134.241.6.82

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

Answer: 2 images were transmitted over 2 TCP connections therefore they were downloaded in a serial manner

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

Answer: Status code: 401 ,

Phrase: Authorization Required

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

Answer: As seen in the screenshot the new field (highlighted) is Authorization. Authorization: Basic ZXRoLXN0dWRlbnRzOm5ldHdvcmtz\r\n