

EECS 428
Web Computing
2002 Fall Semester

Midterm

October 17

The midterm contributes 7% to your grade.

Total: 100 points.

Closed books and notes.

30 minutes

1. (16 points) One of the states of TCP is TIME_WAIT. Explain what are the operations of TCP in the TIME_WAIT state and why this state is needed.
2. (21 points) Give an example of an http client (other than a browser). Explain who are the potential users for this type of client, how the end-user would interact with the http client, and what benefits would the users receive from this client that are not available in a regular browser.
3. (10 points) Explain the requests and reply exchange between a client and a server when the server wishes to set a cookie.
4. (15 points) Explain what server-side caching is and how it can improve performance.
5. (22 points) Discuss similarities and differences between a layer-4 switch in a two-architecture and a NAT (Network Address Translation) box.
6. (16 points) Explain the format of an HTTP response message.