Computer Networks: Home work project 3

Assigned: Thursday, Mar 17
Due: Tuesday, Mar 29
(LATE SUBMISSIONS WILL NOT BE ACCEPTED)

1. libpcap packet capture library

Libpcap is a general purpose packet capture library. tcpdump is built using libpcap. You can learn more about libpcap using the manual pages 'man pcap'. There is also an online tutorial available at http://www.tcpdump.org/pcap.htm. For this question, you will

- 1 Develop a tcp program which will, open a connection from host A to some web server (port 80) (e.g. www.yahoo.com, news.bbc.co.uk) host B, write a 1 byte packet and close the connection.
- 2 Develop a program using libpcap to capture the packets transmitted for this tcp transaction. Describe the details of each ipv4 packet that is part of this conversation.

You would need super-user priviledges to run this project; you can get this access by using *sudo* < *your program*>. The password is your AFS password.