Unix Tools  
CS114 Fall 2003  
Homework 3  
Due Date: Friday, October 31, 2003

You should do all the work yourself, without any assistance from other people. If you need help, post your question to cornell.class.cs114 newsgroup or if you want to keep your question private, e-mail me at cs114@cs.cornell.edu.

Setup

1. Create a subdirectory cs114-HW3 in your home directory. Make sure you are the only one who has any kind of access permissions to it.

2. Create a file named glookup in your cs114-HW3 directory.

A simple script

This homework simply asks you to write a bash shell script putting together some of the things you did on the last homework.

1. Write a bash shell script in glookup that takes a single argument on the command line, performs a google search on that argument, and returns to standard output the number of hits the search returned.

To perform a google search, you can use lynx, a web browser that has some interesting command line capabilities. You will want something like the following:

    lynx -dump -source "http://www.google.com/search?q=foobar"

That line looks up the given URL, in this case, google, asking it to search for foobar, and sends to standard output the HTML source of the page. That’s the kind of page you searched in homework 3, such as search.html.

The idea is that your script will use a line like the one above to perform a google search, and then search the result using essentially what you wrote in homework 3 to get the number of hits. Here’s some sample output:

    babbage$ cs114-HW3/glookup foobar
    154,000
    babbage$ cs114-HW3/glookup Riccardo
    494,000
    babbage$ cs114-HW3/glookup cs114
    3,080

To submit your HW, run ~cs114/bin/submit-hw3. The script will work as many times as you run it, but you will only receive credit for your first submission. If something goes wrong, please let me know ASAP.