

**CSCI 395: Networks**  
**Lab 1a: Traceroute**  
**Due: 9/10/08 at the beginning of class**

**Goals**

- to investigate the path of packets

**Overview**

Log onto <http://traceroute.org/>

Choose any 5 countries, including the USA

(note some countries are easier to use than others, as you will discover – but enjoy the exploration)

For each country:

Choose any one router from which you can trace the route of packets from the router either to:  
you ([cs.millersville.edu](http://cs.millersville.edu)) or  
any other destination host (in other countries e.g [www.eurecom.fr](http://www.eurecom.fr) – have fun with this)

Copy and paste each of the 5 traceroutes onto a document (10 points)

For your favorite traceroute, indicate the following:

Number of routers

The cities/ countries that packets have visited (10 points)

(if possible take note of the ISPs, this will help you with Lab 1b)

Note:

the permutations of countries, routers, and destination hosts should ensure that each student has different traceroutes

For some source-destinations, you may try to use the ping function:

Ping: A utility to determine whether a specific IP address is accessible. It works by sending a packet to the specified address and waiting for a reply. PING is used primarily to troubleshoot Internet connections

Total: 20 points