MA194 – Using Unix

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Class #6 - Tuesday, January 30, 1996 – Week 3

In-class hotline: (606) 323–3681

Community Colleges: Tues 9:00-9:50 & 10:00-10:50 PM EST
UK/Lexington: Wed & Fri 9:00 PM EST, TCI Channel 16

URL: `http://www.ms.uky.edu/~ma194`
Mailing list: ma194-class@ms.uky.edu
To join the mailing list, send a note to ma194@ms.uky.edu

Tonight's Topics

– Homework 2 – Account information

– Networks

– Accessing remote machines

– Client/server structure

Routing
- The ping command
- The traceroute command

Accessing remote machines
- telnet/rlogin
- FTP
- The finger command

Machine names vs. numbers
- Nameservers
- The nslookup command
- The WHOIS command

Client/server usage
- telnetd
- ftpd
- Netscape and httpd

Homework 3 - ‘Find’ these sites

- pigpen.ate.uky.edu
- ukcc.uky.edu
- ftp.cc.gatech.edu
- whitehouse.gov
- singapura.singnet.com.sg
- saga-ed.go.jp

Find the ‘most distant’ site and show it’s route from your machine

Email your answers to ma194@ms.uky.edu with the subject:
HM3 – Networking

An example of ping

```
franklin:~$ ping test.uky.edu
PING test.uky.edu (128.163.1.6): 56 data bytes
64 bytes from 128.163.1.6: icmp_seq=0 ttl=253 time=6.9 ms
64 bytes from 128.163.1.6: icmp_seq=1 ttl=253 time=3.3 ms

--- ncc.uky.edu ping statistics ---
2 packets transmitted, 2 packets received, 0% packet loss
round-trip min/avg/max = 3.3/5.1/6.9 ms
franklin:~$ ping mozart.ms.uky.edu
PING mozart.ms.uky.edu (128.163.128.127): 56 data bytes

--- mozart.ms.uky.edu ping statistics ---
2 packets transmitted, 0 packets received, 100% packet loss
```

An example of traceroute

```
traceroute to hgatenl.hobby.nl (193.78.42.1), 30 hops max, 40 byte packets
 1  ms-uky-gw.ms.uky.edu (128.163.128.1)  3 ms  3 ms  4 ms
 2  uky-mcv-59-1.net.uky.edu (128.163.55.4)  5 ms  5 ms  5 ms
 3  sura2uky-pks2-1-2.net.uky.edu (128.163.11.9)  8 ms  5 ms  12 ms
 4  lex1-uky-c3mb.sura.net (192.221.9.17)  10 ms  11 ms  12 ms
 5  wvnet-lex1-c3mb.sura.net (192.221.9.6)  301 ms  226 ms  312 ms
 6  cpk2-wvnet-c3mb.sura.net (128.167.19.1)  202 ms  97 ms  85 ms
 7  cpk5-cpk-cf.sura.net (128.167.252.5)  95 ms  75 ms  83 ms
 8  mae_east1-cpk10-c3.sura.net (192.221.64.82)  83 ms  88 ms  76 ms
 9  Vienna2.VA.US.EU.net (192.41.177.120)  86 ms  81 ms  80 ms
10  Amsterdam5.NL.EU.net (134.222.228.17)  175 ms  361 ms  158 ms
11  Amsterdam.NL.NL.net (134.222.18.2)  182 ms  184 ms  174 ms
12  annex01.NL.net (193.78.240.65)  180 ms  190 ms  177 ms
13  hgatenl.hobby.nl (193.78.42.1)  328 ms  319 ms  300 ms
```

The finger command

```
franklin:~$ finger chaney@test.uky.edu
[test.uky.edu]
Login name: dan                         In real life: Dan Chaney
Directory: /home/usr/dan                Shell: /bin/csh
Last login Mon Jan 15 16:11 on ttyp9 from 128.163.132.106
Unread mail since Mon Jan 15 08:52:50 1995
No Plan.
```

```
franklin:~$ finger @t5.mscf.uky.edu
[t5.mscf.uky.edu]
Login    Name                 Tty  Idle  Login Time
chaney   Daniel Chaney         p2    1d  Jan 20 16:22
chaney   Daniel Chaney         r3    28  Jan 18 16:26
krump    Chase Krumpelman      qe  3:16  Jan 18 14:32
krump    Chase Krumpelman      r6    2d  Jan 18 14:43
kryscio  Richard Kryscio       qb  5:25  Jan 18 13:50
ma193    MA193 account         pe    28  Jan 19 13:48
martin   John Martin           q8  7:48  Jan  7 12:54
mike     Mike McKenna          q0  4:16  Jan 14 18:49
paul     Paul Eakin            q2    7d  Jan 13 14:21
rbowen   Richard Bowen         p0  3:45  Jan 21 12:54
stockb   Richard Stockbridge   pa    1d  Jan 18 10:03
toddc    Todd Caldwell         pd    1d  Jan 20 09:53
vgorb    Vassily Gorbounov     p1     4  Jan  5 14:09
```

An example of FTP

```
t2.mscf.uky.edu% ftp ftp.ms.uky.edu
Connected to t8.mscf.uky.edu.
220-
220-Welcome to the Mathematical Sciences Computing Facility archives.
220-Please see the files README and WELCOME for details.
220-
220 t8.mscf.uky.edu FTP server (Version wu-2.4(2)
220 Wed Jun 7 17:22:02 MDT 1995) ready.
Name (ftp.ms.uky.edu:chaney): anonymous
331 Guest login ok, send your complete e-mail address as password.
Password:
230 Guest login ok, access restrictions apply.
Using binary mode to transfer files.
ftp>
```