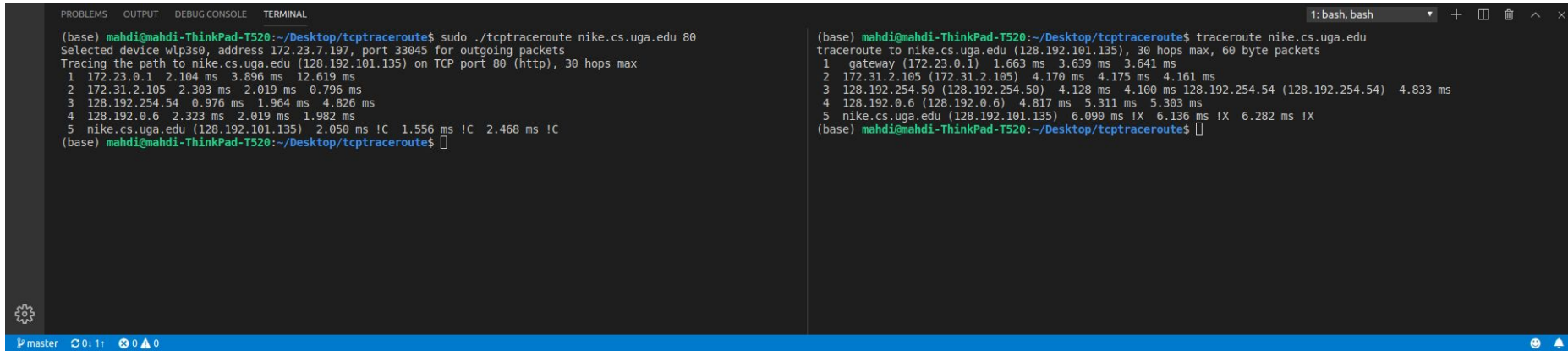


Comparison between the **(tcp)traceroute** and **traceroute(udp)** in an ubuntu machine.



The screenshot shows a terminal window with two side-by-side panels. The left panel displays the output of `(tcp)traceroute` and the right panel displays the output of `traceroute(udp)`. Both commands are executed from the directory `~/Desktop/tcptracroute` on a machine named `mahdi@mahdi-ThinkPad-T520`.

Left Panel Output (tcp)traceroute:

```
(base) mahdi@mahdi-ThinkPad-T520:~/Desktop/tcptracroute$ sudo ./tcptraceroute nike.cs.uga.edu 80
Selected device wlp3s0, address 172.23.7.197, port 33045 for outgoing packets
Tracing the path to nike.cs.uga.edu (128.192.101.135) on TCP port 80 (http), 30 hops max
 1 172.23.0.1 2.104 ms 3.896 ms 12.619 ms
 2 172.31.2.105 2.303 ms 2.019 ms 0.796 ms
 3 128.192.254.54 0.976 ms 1.964 ms 4.826 ms
 4 128.192.0.6 2.323 ms 2.019 ms 1.982 ms
 5 nike.cs.uga.edu (128.192.101.135) 2.050 ms !C 1.556 ms !C 2.468 ms !C
(base) mahdi@mahdi-ThinkPad-T520:~/Desktop/tcptracroute$
```

Right Panel Output (traceroute(udp)):

```
(base) mahdi@mahdi-ThinkPad-T520:~/Desktop/tcptracroute$ traceroute nike.cs.uga.edu
traceroute to nike.cs.uga.edu (128.192.101.135), 30 hops max, 60 byte packets
 1 gateway (172.23.0.1) 1.663 ms 3.639 ms 3.641 ms
 2 172.31.2.105 (172.31.2.105) 4.170 ms 4.175 ms 4.161 ms
 3 128.192.254.50 (128.192.254.50) 4.128 ms 4.100 ms 128.192.254.54 (128.192.254.54) 4.833 ms
 4 128.192.0.6 (128.192.0.6) 4.817 ms 5.311 ms 5.303 ms
 5 nike.cs.uga.edu (128.192.101.135) 6.090 ms !X 6.136 ms !X 6.282 ms !X
(base) mahdi@mahdi-ThinkPad-T520:~/Desktop/tcptracroute$
```