

Traceroute (Linux) or Tracert (Win)  
Google.com

The first hop is from our gateway out.  
Then through colorado springs heading to Denver  
Once out of colorado springs it shifts to .ibone which google  
says are not nodes but their backbone

```
C:\Users\Chris>tracert google.com

Tracing route to google.com [2607:f8b0:400f:804::200e]
over a maximum of 30 hops:

  1    4 ms    2 ms    3 ms  2601:281:d87e:6aa0:82da:c2ff:fe91:35d7
  2   12 ms   11 ms   11 ms  2001:558:1028:3ecc::3
  3   14 ms   17 ms   19 ms  po-321-364-rur402.cosprings.co.denver.comcast.net [2001:558:1c2:c006::1]
  4   15 ms    6 ms   12 ms  po-2-rur401.cosprings.co.denver.comcast.net [2001:558:1c0:d0::1]
  5   15 ms   12 ms   11 ms  po-400-xar01.cosprings.co.denver.comcast.net [2001:558:1c0:a5::1]
  6    *      *      *      Request timed out.
  7   18 ms   18 ms   19 ms  be-36041-cs04.1601milehigh.co.ibone.comcast.net [2001:558:3:2ff::1]
  8   23 ms   22 ms   20 ms  be-1414-cr14.1601milehigh.co.ibone.comcast.net [2001:558:3:1df::2]
  9   16 ms   12 ms   14 ms  be-302-cr14.champa.co.ibone.comcast.net [2001:558:3:1c1::1]
 10   16 ms   14 ms   16 ms  be-1214-cs02.champa.co.ibone.comcast.net [2001:558:3:17d::1]
 11   14 ms   15 ms   16 ms  be-3211-pe11.910fifteenth.co.ibone.comcast.net [2001:558:3:5d::2]
 12   21 ms   20 ms   18 ms  as15133-5-c.nota.fl.ibone.comcast.net [2001:559::63a]
 13   15 ms   15 ms   14 ms  2607:f8b0:82bd::1
 14   16 ms   18 ms   14 ms  den08s04-in-x0e.1e100.net [2607:f8b0:400f:804::200e]

Trace complete.
```

The last two hops are google specific.  
Something of interest is the .1e100.net is another  
way to know its google.  
 $1E100 = 1 \times 10^{100} = \text{Googol}$

```
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  3   14 ms   17 ms   19 ms  po-321-364-rur402.cosprings.co.denver.comcast.net [2001:558:1c2:c006::1]
  4   15 ms    6 ms   12 ms  po-2-rur401.cosprings.co.denver.comcast.net [2001:558:1c0:d0::1]
  5   15 ms   12 ms   11 ms  po-400-xar01.cosprings.co.denver.comcast.net [2001:558:1c0:a5::1]
  6    *      *      *      Request timed out.
  7   18 ms   18 ms   19 ms  be-36041-cs04.1601milehigh.co.ibone.comcast.net [2001:558:3:2ff::1]
  8   23 ms   22 ms   20 ms  be-1414-cr14.1601milehigh.co.ibone.comcast.net [2001:558:3:1df::2]
  9   16 ms   12 ms   14 ms  be-302-cr14.champa.co.ibone.comcast.net [2001:558:3:1c1::1]
 10   16 ms   14 ms   16 ms  be-1214-cs02.champa.co.ibone.comcast.net [2001:558:3:17d::1]
 11   14 ms   15 ms   16 ms  be-3211-pe11.910fifteenth.co.ibone.comcast.net [2001:558:3:5d::2]
 12   21 ms   20 ms   18 ms  as15133-5-c.nota.fl.ibone.comcast.net [2001:559::63a]
 13   15 ms   15 ms   14 ms  2607:f8b0:82bd::1
 14   16 ms   18 ms   14 ms  den08s04-in-x0e.1e100.net [2607:f8b0:400f:804::200e]

Trace complete.
```