

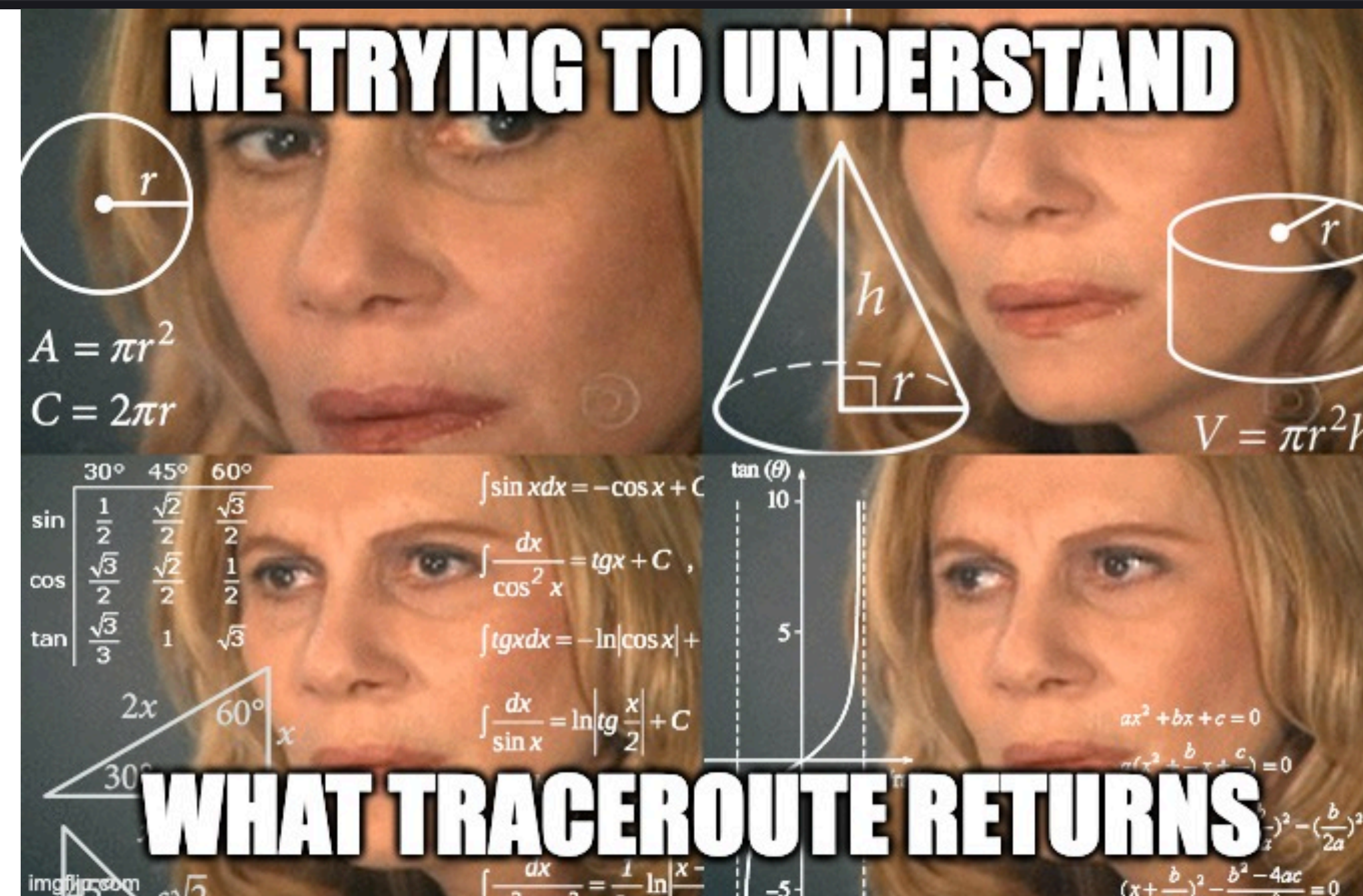
Understanding traceroute output



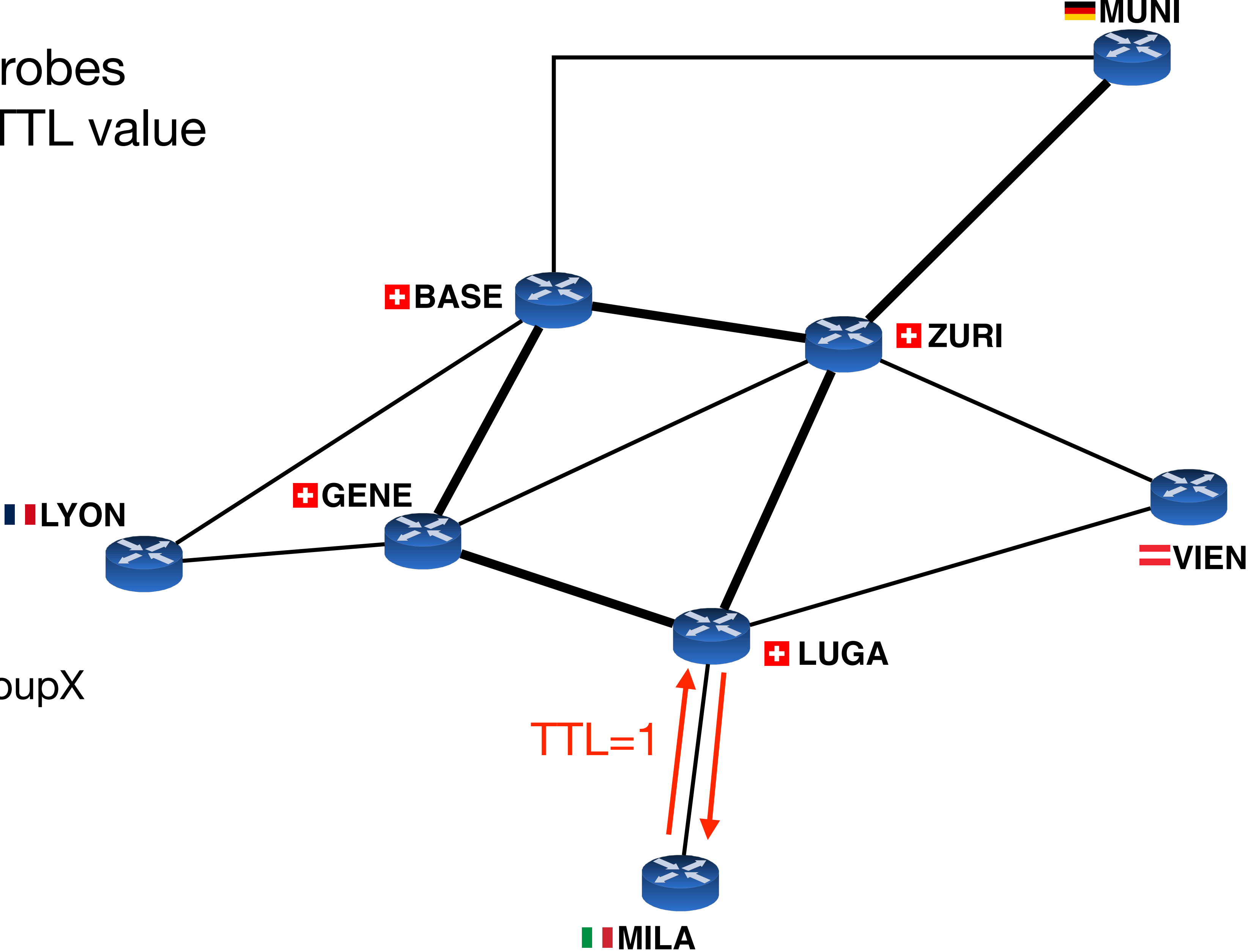
3:13 PM

Group 104 here. We are trying to understand the traceroute after configuring the weights in question 1.4:

```
MILA_host:~# traceroute host-MUNI.group104
traceroute to host-MUNI.group104 (104.105.0.1), 30 hops max, 46 byte packets
 1 MILA-host.group104 (104.108.0.2)  0.004 ms  0.004 ms  0.002 ms
 2 LUGA-MILA.group104 (104.0.11.1)  0.253 ms  0.314 ms  0.298 ms
 3 ZURI-LUGA.group104 (104.0.3.1)  0.345 ms  0.325 ms  GENE-BASE.group104 (104.0.6.2)  0.426 ms
 4 MUNI-ZURI.group104 (104.0.4.2)  0.590 ms  BASE-ZURI.group104 (104.0.1.2)  0.553 ms  MUNI-ZURI.group104 (104.0.4.2)  0.603 ms
 5 ZURI-LUGA.group104 (104.0.3.1)  0.398 ms  host-MUNI.group104 (104.105.0.1)  0.953 ms  0.556 ms
```

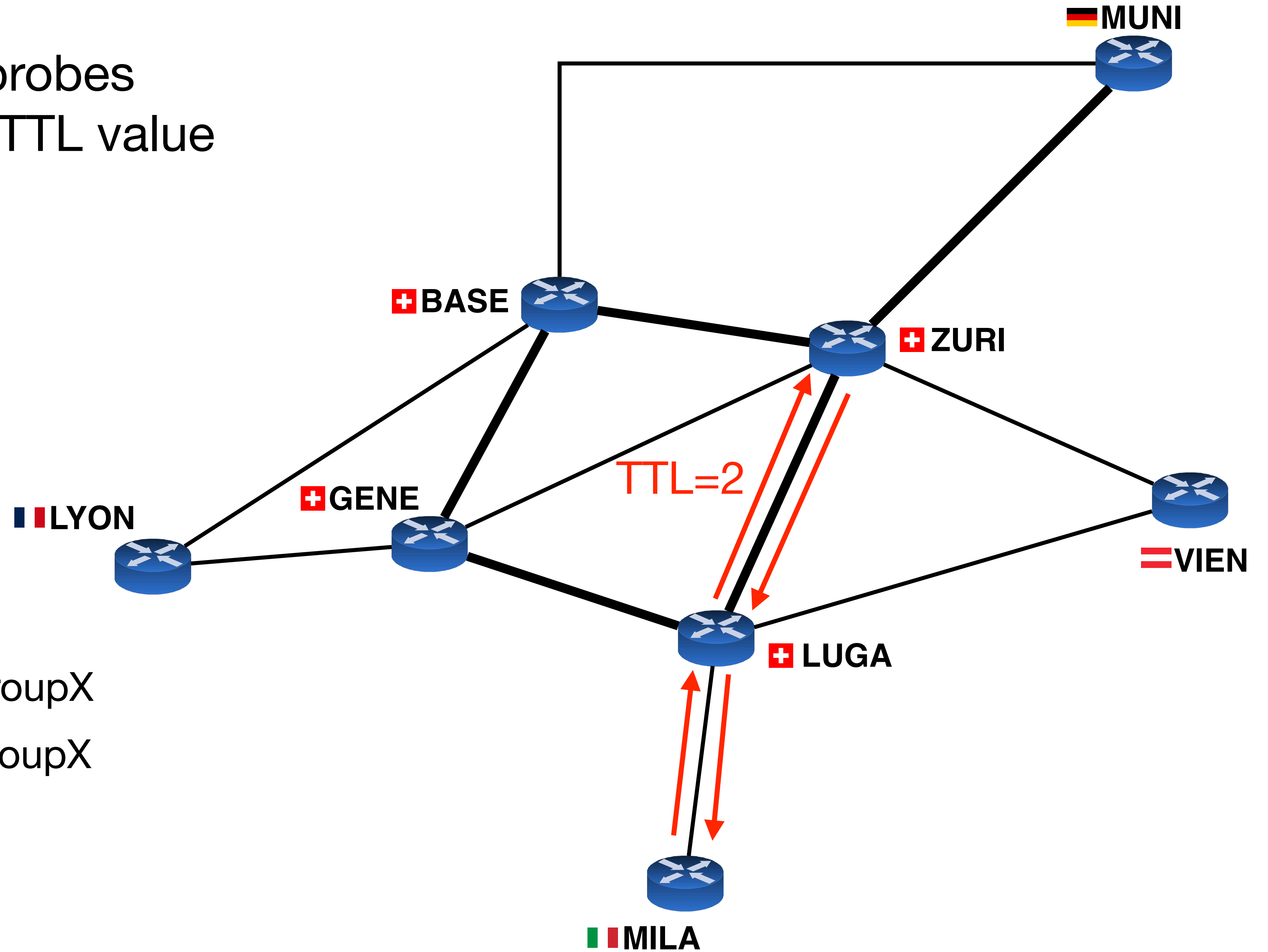


Traceroute sends probes with an increasing TTL value



Hop #1: LUGA-MILA.groupX

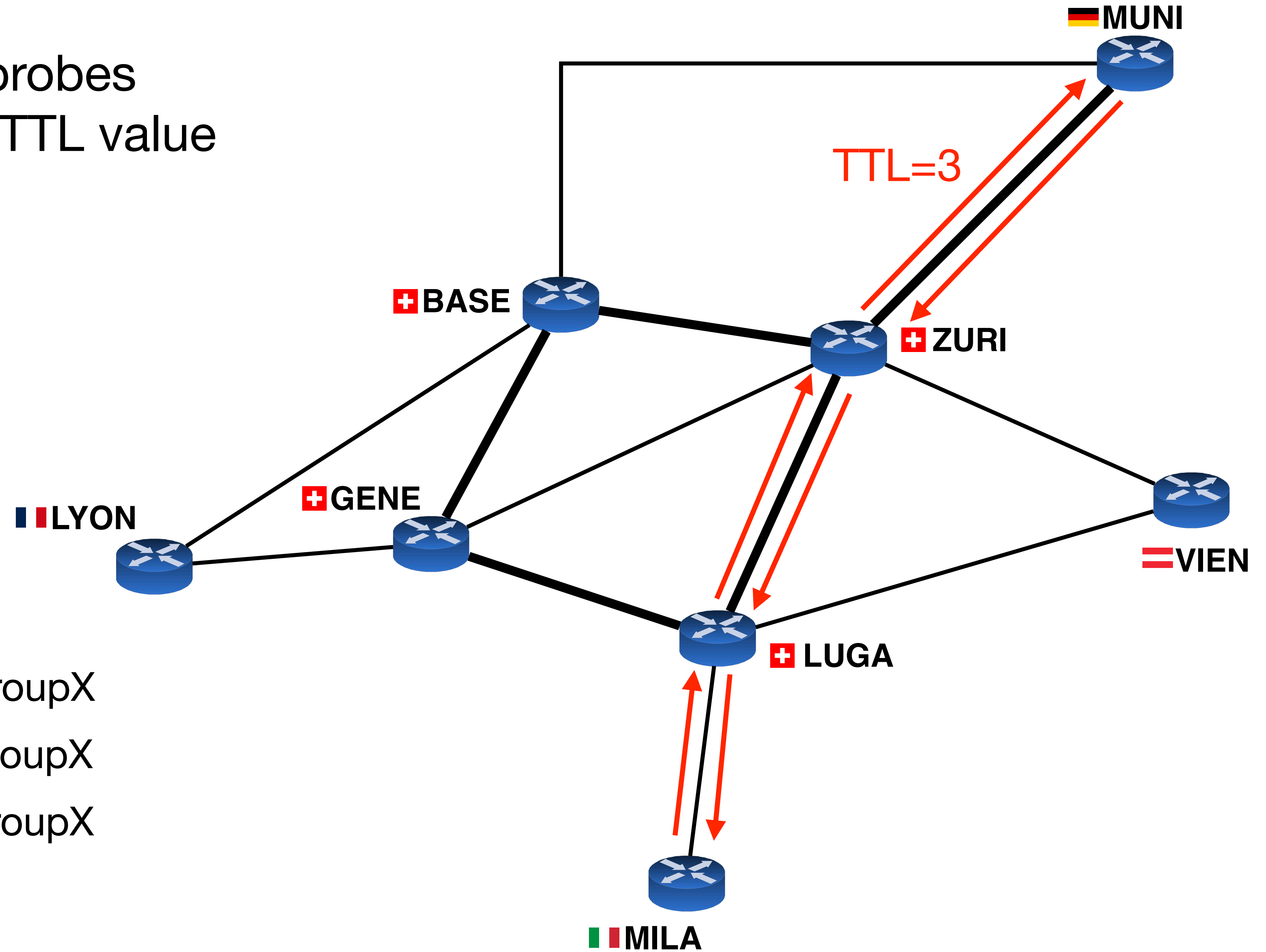
Traceroute sends probes with an increasing TTL value



Hop #1: LUGA-MILA.groupX

Hop #2: ZURI-LUGA.groupX

Traceroute sends probes with an increasing TTL value

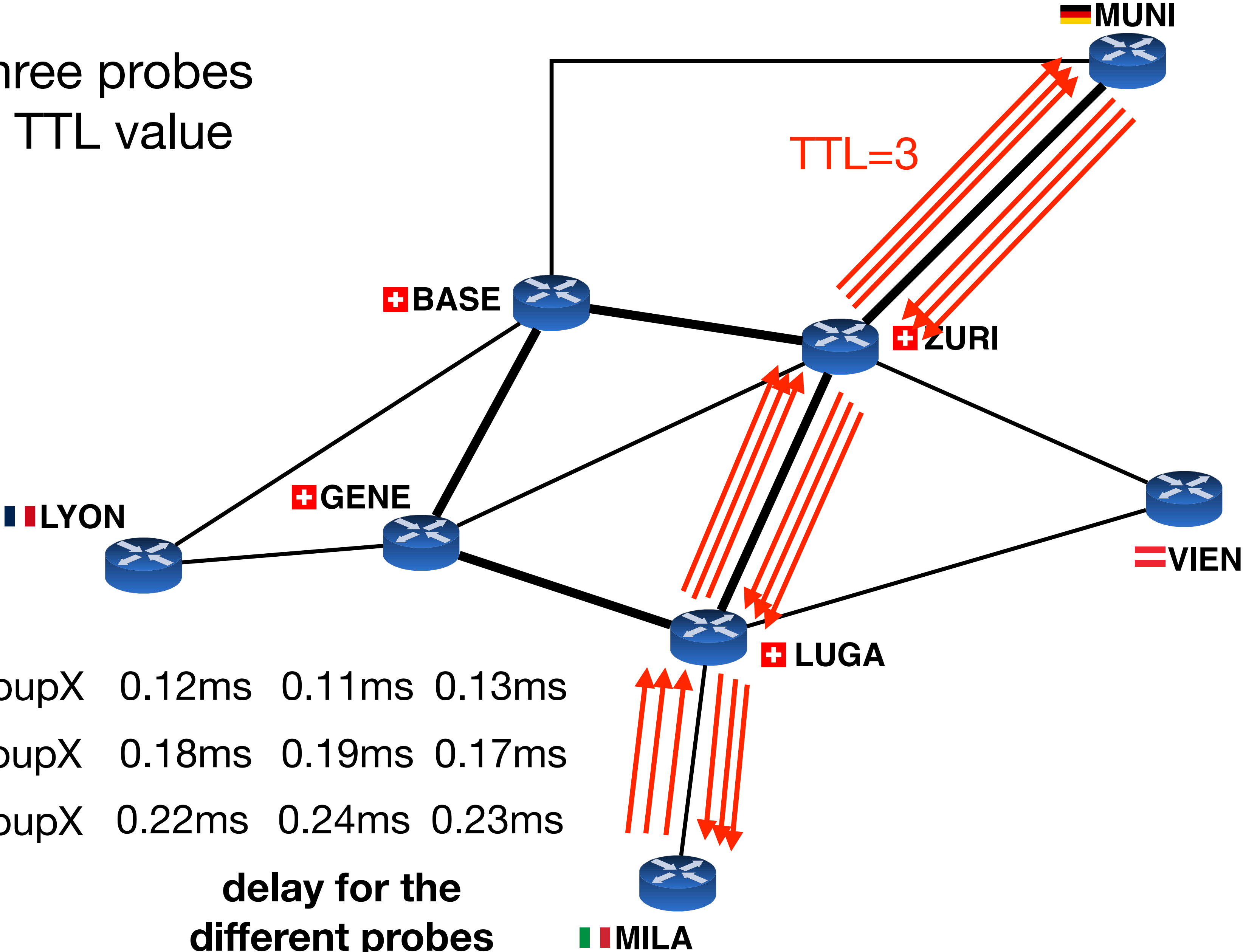


Hop #1: LUGA-MILA.groupX

Hop #2: ZURI-LUGA.groupX

Hop #3: ZURI-LUGA.groupX

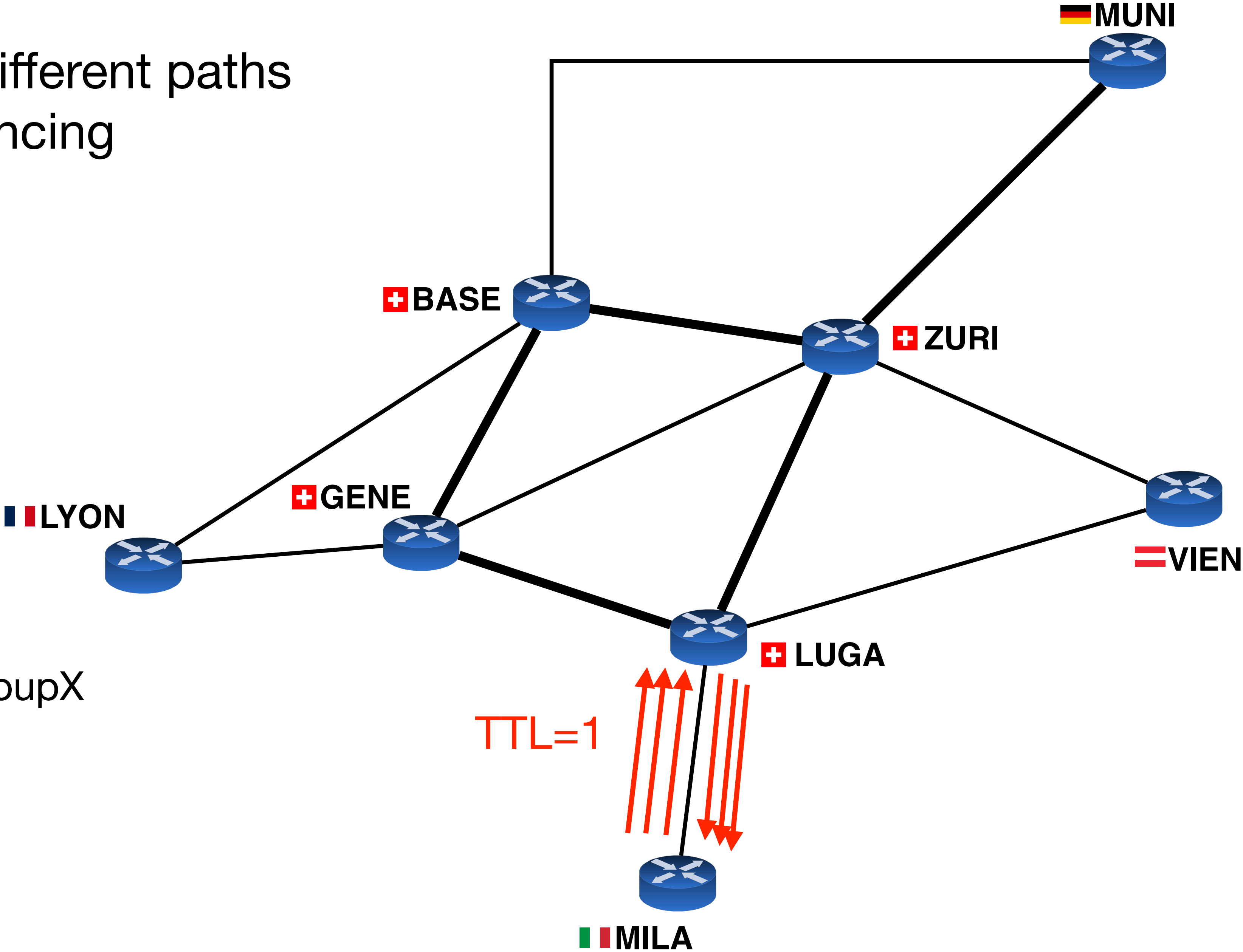
Traceroute sends three probes by default for every TTL value



Hop #1: LUGA-MILA.groupX	0.12ms	0.11ms	0.13ms
Hop #2: ZURI-LUGA.groupX	0.18ms	0.19ms	0.17ms
Hop #3: ZURI-LUGA.groupX	0.22ms	0.24ms	0.23ms

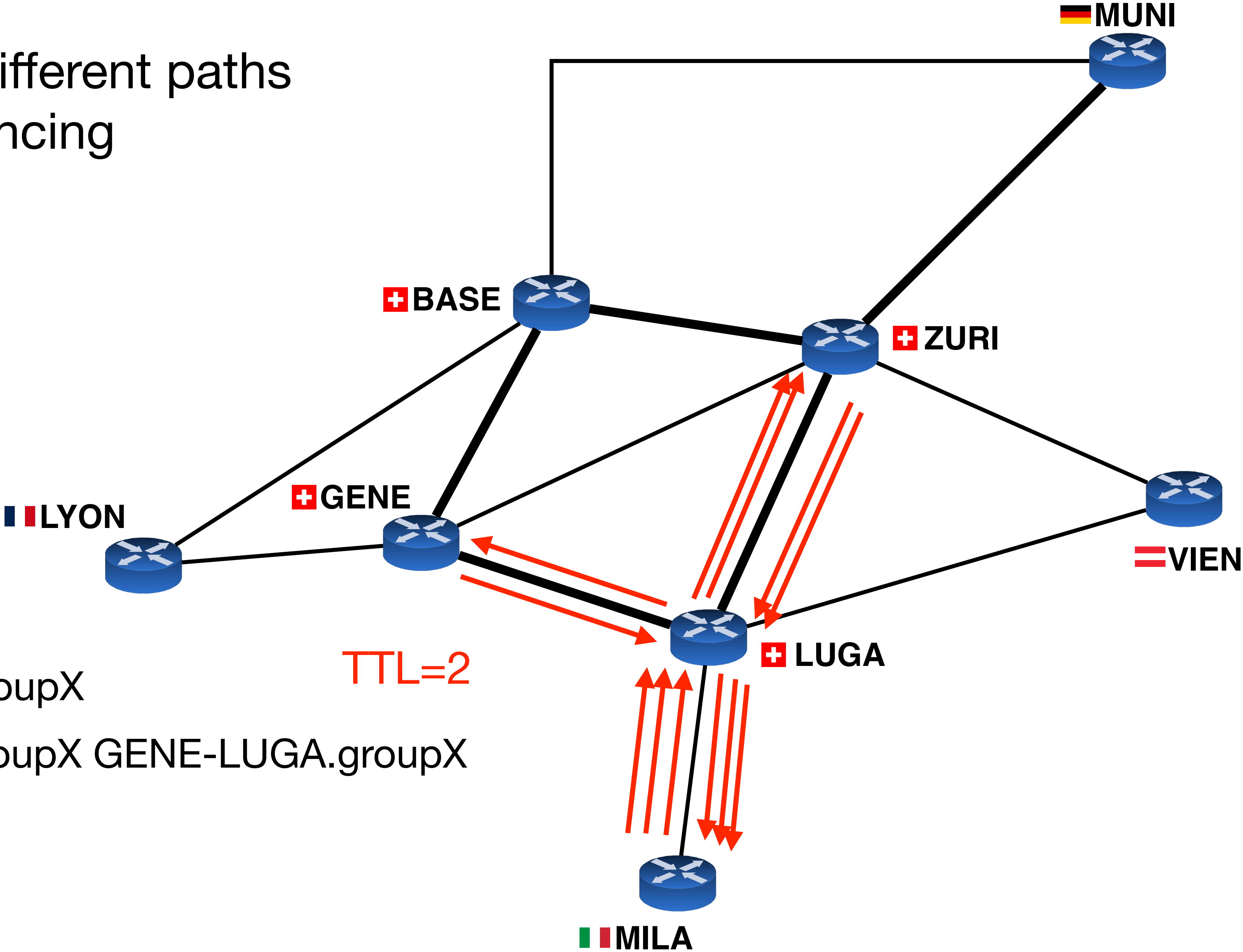
delay for the different probes

Probes can go to different paths if there is load balancing



Hop #1: LUGA-MILA.groupX

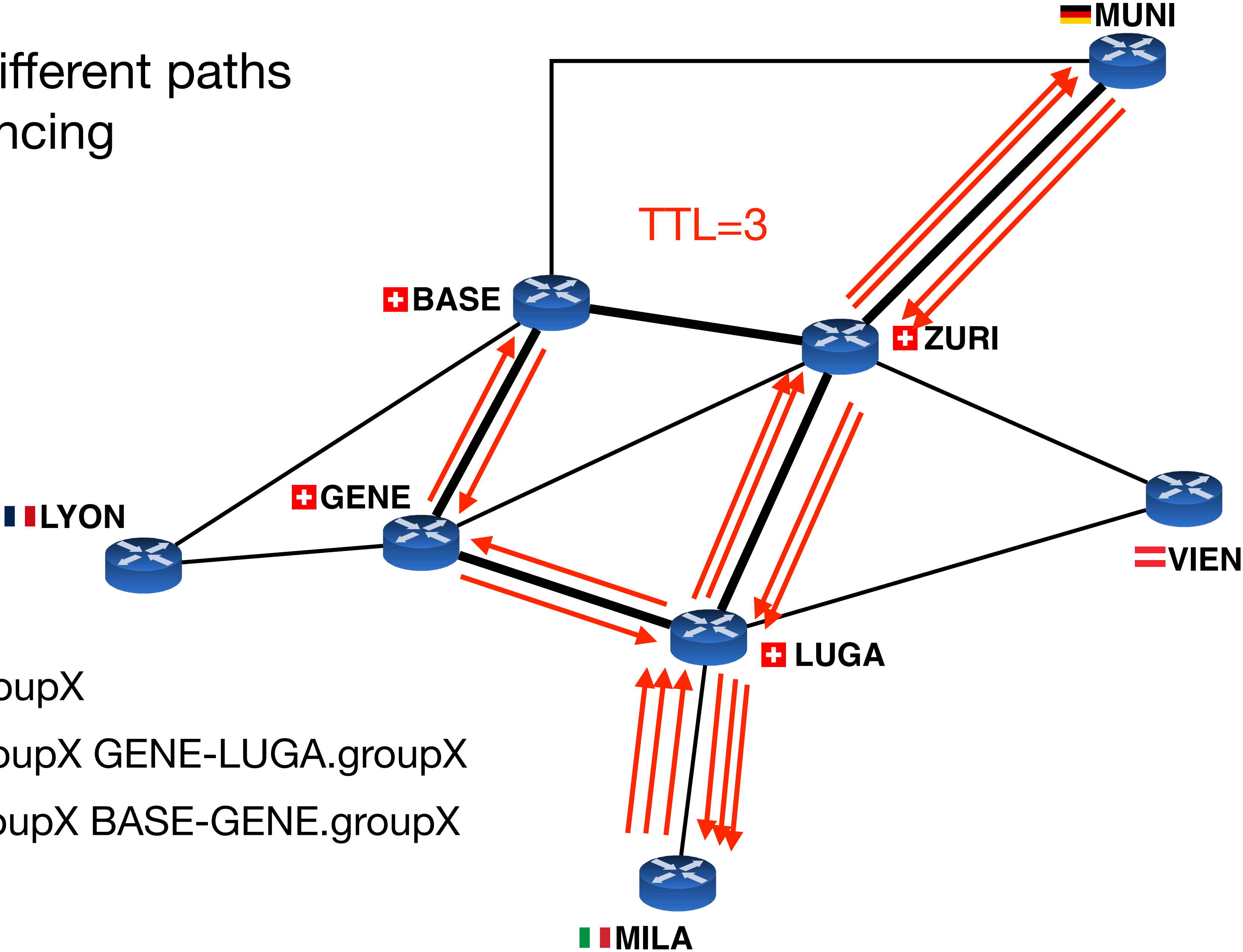
Probes can go to different paths if there is load balancing



Hop #1: LUGA-MILA.groupX

Hop #2: ZURI-LUGA.groupX GENE-LUGA.groupX

Probes can go to different paths if there is load balancing

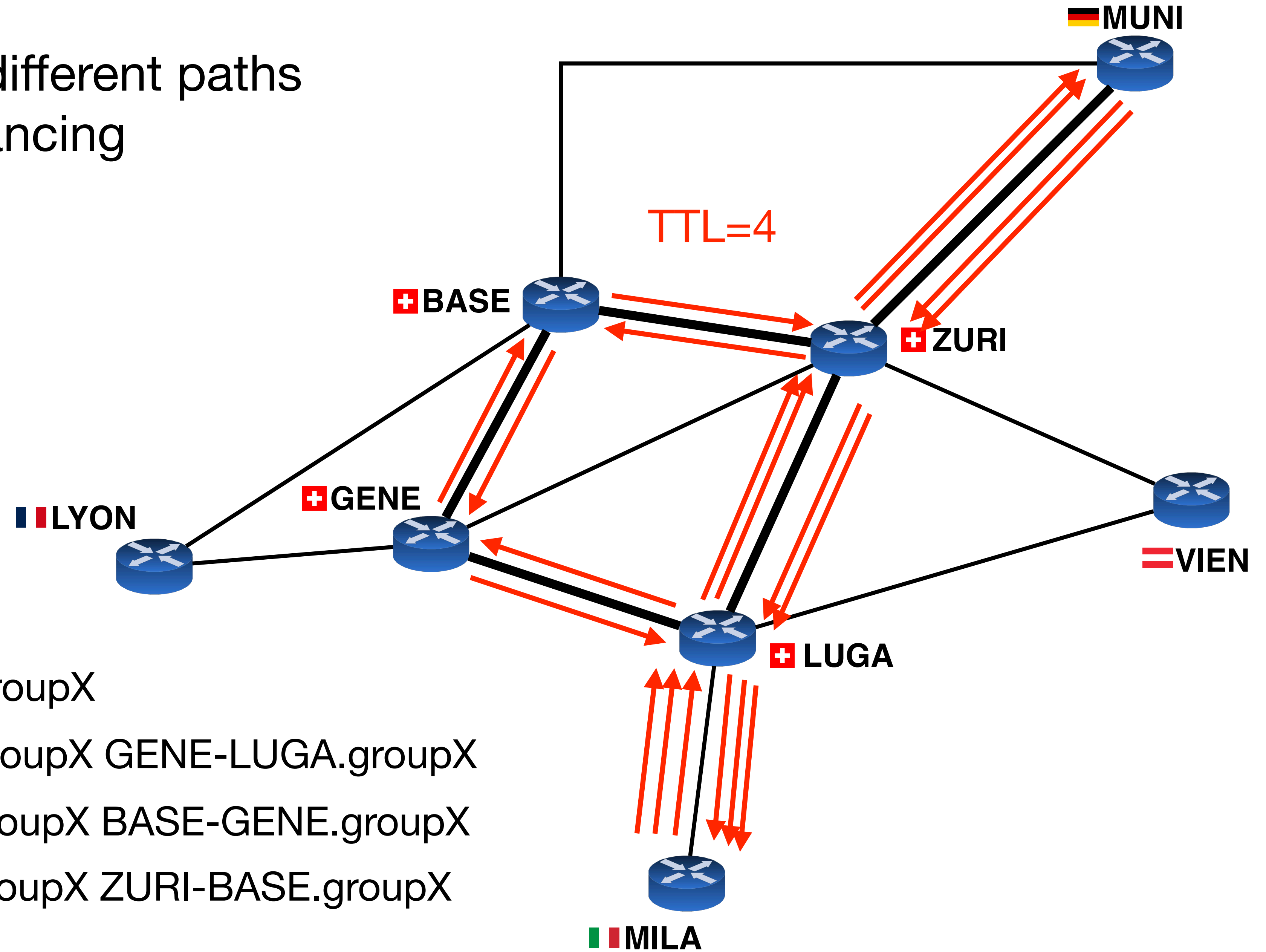


Hop #1: LUGA-MILA.groupX

Hop #2: ZURI-LUGA.groupX GENE-LUGA.groupX

Hop #3: MUNI-ZURI.groupX BASE-GENE.groupX

Probes can go to different paths if there is load balancing



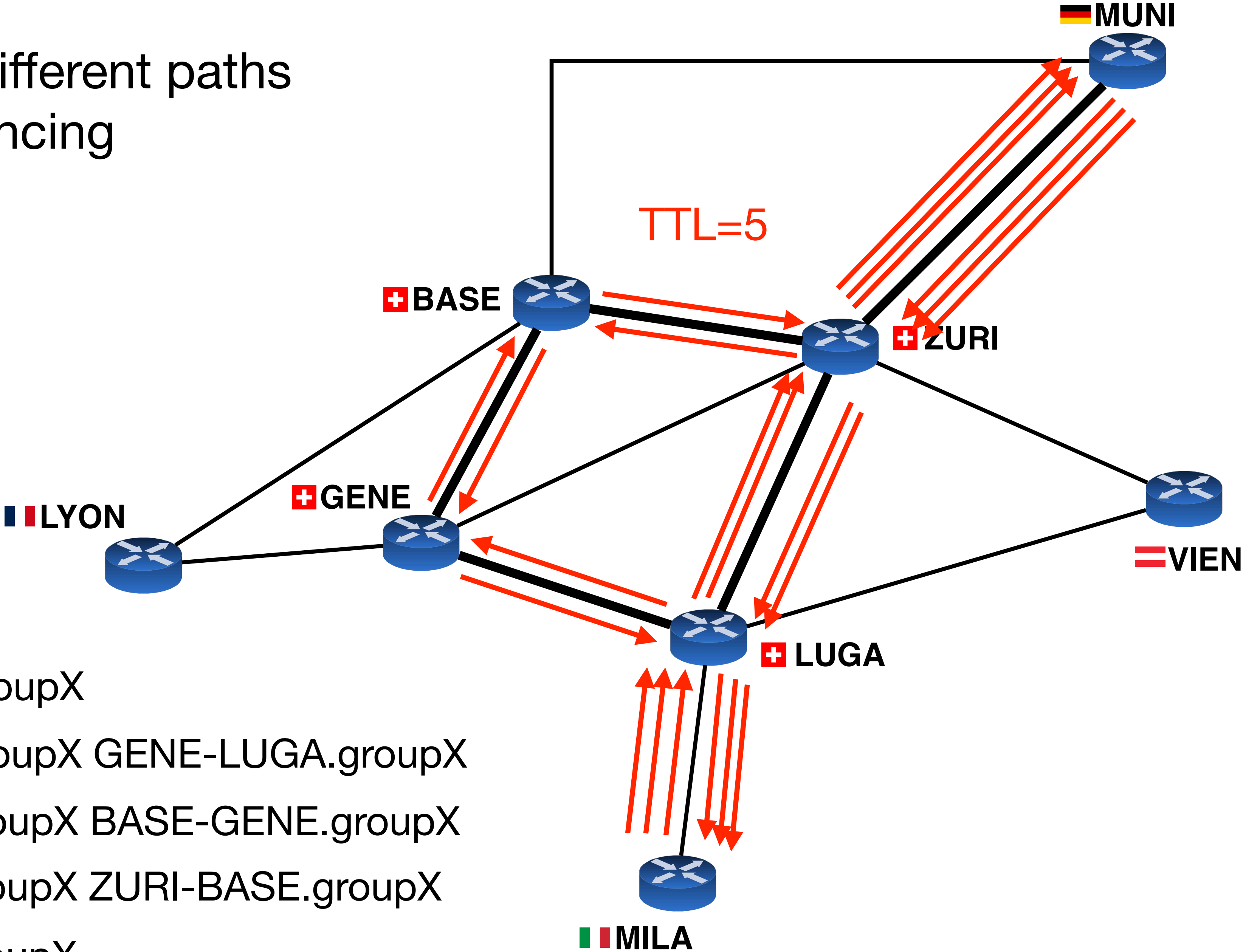
Hop #1: LUGA-MILA.groupX

Hop #2: ZURI-LUGA.groupX GENE-LUGA.groupX

Hop #3: MUNI-ZURI.groupX BASE-GENE.groupX

Hop #4: MUNI-ZURI.groupX ZURI-BASE.groupX

Probes can go to different paths if there is load balancing



Hop #1: LUGA-MILA.groupX

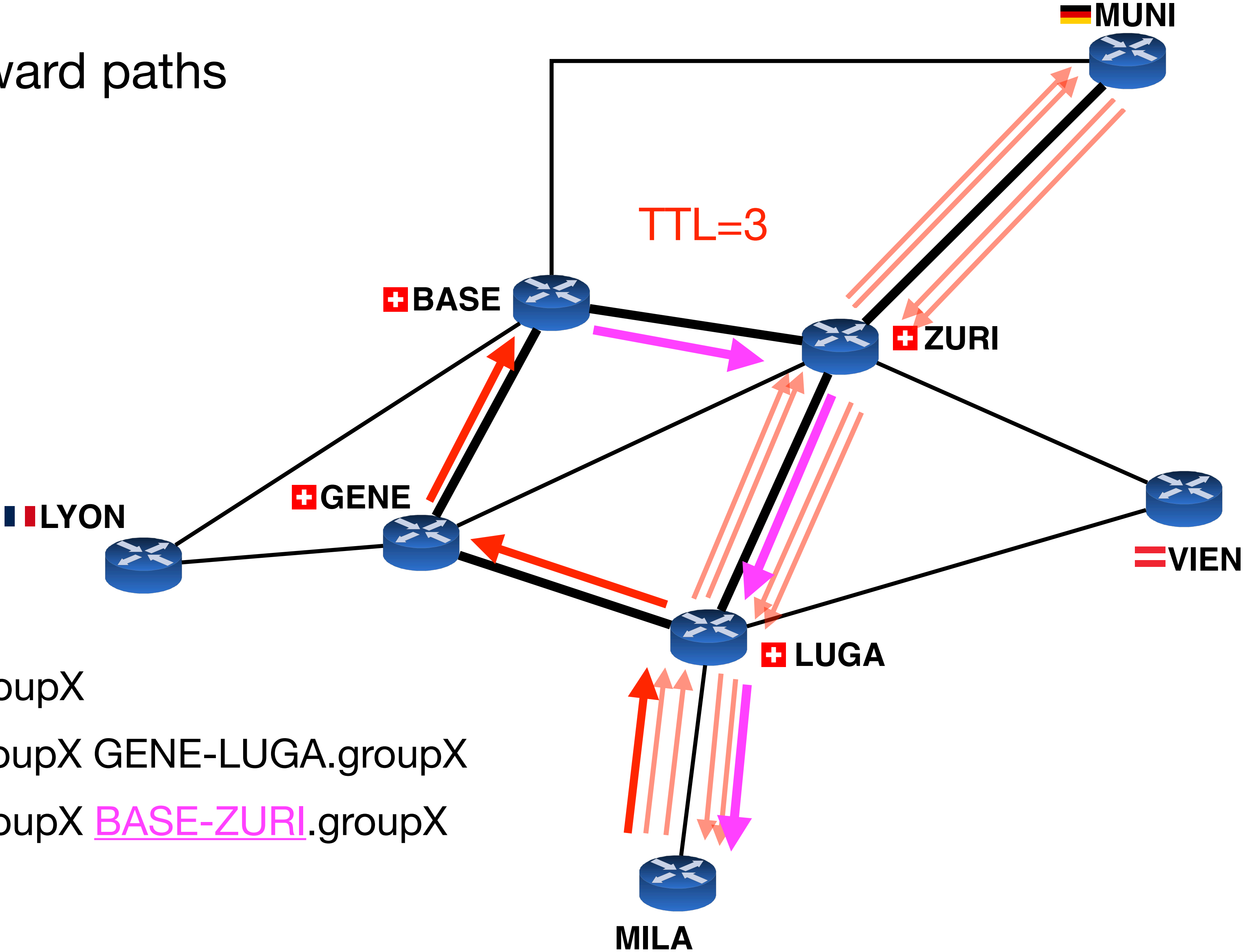
Hop #2: ZURI-LUGA.groupX GENE-LUGA.groupX

Hop #3: MUNI-ZURI.groupX BASE-GENE.groupX

Hop #4: MUNI-ZURI.groupX ZURI-BASE.groupX

Hop #5: MUNI-ZURI.groupX

Forward and backward paths can be different



Hop #1: LUGA-MILA.groupX

Hop #2: ZURI-LUGA.groupX GENE-LUGA.groupX

Hop #3: ZURI-LUGA.groupX BASE-ZURI.groupX