Exercise1 Answer:

1. IP address: 104.18.60.21, 104.18.61.21 and 172.67.219.46

The reason of having several IP addresses is having multiple servers.

```
z5223731@vx4:/tmp_amd/reed/export/reed/1/z5223731/Desktop/comp3331/lab01$ nslook up www.koala.com.au
Server: 129.94.242.2
Address: 129.94.242.2#53

Non-authoritative answer:
Name: www.koala.com.au
Address: 104.18.61.21
Name: www.koala.com.au
Address: 172.67.219.46
Name: www.koala.com.au
Address: 104.18.60.21
```

2. name is localhost

```
z5223731@vx4:/tmp_amd/reed/export/reed/1/z5223731/Desktop/comp3331/lab01$ nslook
up 127.0.0.1
Server: 129.94.242.2
Address: 129.94.242.2#53
1.0.0.127.in-addr.arpa name = localhost.
z5223731@vx4:/tmp_amd/reed/export/reed/1/z5223731/Desktop/comp3331/lab01$
```

Exercise2 Answer:

1.www.getfittest.com.au and www.hola.hp cannot reachable.

```
z5223731@weber:~/Desktop/comp3331/lab01$ ping -c 1 www.unsw.edu.au
PING cdn.prod65.unsw.adobecqms.net (13.226.107.112) 56(84) bytes of data.
64 bytes from server-13-226-107-112.syd4.r.cloudfront.net (13.226.107.112): icmp_seq=1 ttl=244 time=1.16 ms
--- cdn.prod65.unsw.adobecqms.net ping statistics ---
1 packets transmitted, 1 received, 0% packet loss, time 0ms
rtt min/avg/max/mdev = 1.162/1.162/1.162/0.000 ms
z5223731@weber:~/Desktop/comp3331/lab01$
```

z5223731@weber:~/Desktop/comp3331/lab01\$ ping -c 1 www.getfittest.com.au
ping: unknown host www.getfittest.com.au
z5223731@weber:~/Desktop/comp3331/lab01\$

```
z5223731@weber:~/Desktop/comp3331/lab01$ ping -c 1 www.mit.edu
PING e9566.dscb.akamaiedge.net (104.74.47.237) 56(84) bytes of data.
64 bytes from a104-74-47-237.deploy.static.akamaitechnologies.com (104.74.47.237): icmp_seq=1 ttl=56 time=1.18 ms
---- e9566.dscb.akamaiedge.net ping statistics ----
1 packets transmitted, 1 received, 0% packet loss, time 0ms
rtt min/avg/max/mdev = 1.188/1.188/1.188/0.000 ms
z5223731@weber:~/Desktop/comp3331/lab01$
```

```
z5223731@weber:~/Desktop/comp3331/lab01$ ping -c 1 www.intel.com.au
PING e19235.dsca.akamaiedge.net (104.98.21.56) 56(84) bytes of data.
64 bytes from a104-98-21-56.deploy.static.akamaitechnologies.com (104.98.21.56): icmp_seq=1 ttl=56 time=1.20 ms
---- e19235.dsca.akamaiedge.net ping statistics ----
1 packets transmitted, 1 received, 0% packet loss, time 0ms
rtt min/avg/max/mdev = 1.208/1.208/1.208/0.000 ms
z5223731@weber:~/Desktop/comp3331/lab01$
```

```
z5223731@weber:~/Desktop/comp3331/lab01$ ping -c 1 www.tpg.com.au
PING www.tpg.com.au (203.26.27.38) 56(84) bytes of data.
64 bytes from www.tpg.com.au (203.26.27.38): icmp_seq=1 ttl=119 time=1.76 ms
  -- www.tpg.com.au ping statistics
1 packets transmitted, 1 received, 0% packet loss, time 0ms rtt min/avg/max/mdev = 1.768/1.768/1.768/0.000 ms
z5223731@weber:~/Desktop/comp3331/lab01$
z5223731@weber:~/Desktop/comp3331/lab01$ ping -c 1 www.hola.hp
ping: unknown host www.hola.hp
z5223731@weber:~/Desktop/comp3331/lab01$
z5223731@weber:~/Desktop/comp3331/lab01$ ping -c 1 www.amazon.com
PING e15316.e22.akamaiedge.net (138.44.25.122) 56(84) bytes of data.
64 bytes from 138.44.25.122: icmp_seg=1 ttl=57 time=1.10 ms
  e15316.e22.akamaiedge.net ping statistics -
1 packets transmitted, 1 received, 0% packet loss, time 0ms
rtt min/avg/max/mdev = 1.100/1.100/1.100/0.000 ms
z5223731@weber:~/Desktop/comp3331/lab01$
z5223731@weber:~/Desktop/comp3331/lab01$ ping -c 1 www.tsinghua.edu.cn
PING www.tsinghua.edu.cn (166.111.4.100) 56(84) bytes of data.
64 bytes from www.tsinghua.edu.cn (166.111.4.100): icmp_seq=1 ttl=42 time=242 ms
  www.tsinghua.edu.cn ping statistics -
1 packets transmitted, 1 received, 0% packet loss, time 0ms rtt min/avg/max/mdev = 242.879/242.879/242.879/0.000 ms
z5223731@weber:~/Desktop/comp3331/lab01$
 z5223731@weber:~/Desktop/comp3331/lab01$ ping -c 1 www.kremlin.ru
 PING www.kremlin.ru (95.173.136.72) 56(84) bytes of data.
   www.kremlin.ru ping statistics
 1 packets transmitted, 0 received, 100% packet loss, time 0ms
 z5223731@weber:~/Desktop/comp3331/lab01$ ping -c 1 8.8.8.8
 PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
 64 bytes from 8.8.8.8: icmp_seq=1 ttl=115 time=1.29 ms
 --- 8.8.8.8 ping statistics ---
 1 packets transmitted, 1 received, 0% packet loss, time 0ms
 rtt min/avg/max/mdev = 1.296/1.296/0.000 ms
 z5223731@weber:~/Desktop/comp3331/lab01$
```

2. The one reason could be these hosts do not exist.

Exercise3 Answer:

1.

```
z5223731@weill:~/Desktop/comp3331/lab01$ traceroute www.columbia.edu traceroute to www.columbia.edu (128.59.105.24), 30 hops max, 60 byte packets

1 cserouterl-server.cse.unsw.EDU.AU (129.94.242.251) 0.151 ms 0.134 ms 0.110 ms

2 129.94.39.17 (129.94.39.17) 0.865 ms 0.882 ms 0.866 ms

3 ombudnexl-vl-3154.gw.unsw.edu.au (149.171.253.35) 1.420 ms libudnexl-vl-3154.gw.unsw.edu.au (149.171.253.34) 1.229 ms ombudnexl-vl-3154.gw.unsw.edu.au (149.171.253.35) 1.586 ms

4 ombcrl-po-5.gw.unsw.edu.au (149.171.255.197) 1.098 ms libcrl-po-6.gw.unsw.edu.au (149.171.255.201) 1.100 ms ombcrl-po-6.gw.unsw.edu.au (149.171.255.169) 1.124 ms

5 unswbrl-te-2-13.gw.unsw.edu.au (149.171.255.105) 1.166 ms unswbrl-te-1-9.gw.unsw.edu.au (149.171.255.101) 1.155 ms 1.

416 ms

6 138.44.5.0 (138.44.5.0) 6.191 ms 5.527 ms 5.488 ms

7 et-1-3-0.pel.sxt.bkvl.nsw.aarnet.net.au (113.197.15.149) 2.083 ms 1.844 ms 1.925 ms

8 et-0-0-0.pel.a.lnnl.aarnet.net.au (113.197.15.99) 7.328 ms 97.000 ms 96.985 ms

9 et-2-1-0.bdrl.a.sea.aarnet.net.au (113.197.15.201) 146.668 ms 146.660 ms 146.641 ms

10 abilene-1-lo-jmb-706.sttlwa.pacificwave.net (207.231.240.8) 146.747 ms 146.761 ms 146.708 ms

11 ae-1.4079.rtsw.minn.net.internet2.edu (162.252.70.173) 179.502 ms 179.277 ms 181.100 ms

12 ae-1.4079.rtsw.eqch.net.internet2.edu (162.252.70.173) 179.502 ms 179.277 ms 181.100 ms

13 ae-0.4079.rtsw.leqch.net.internet2.edu (162.252.70.173) 179.502 ms 179.277 ms 181.100 ms

14 ae-1.4079.rtsw.clev.net.internet2.edu (162.252.70.173) 179.502 ms 179.277 ms 181.100 ms

15 buf-9208-12-CLEV.nysernet.net (199.109.7.193) 203.923 ms 199.920 ms 199.871 ms

17 nyc111-9204-syr-9208.nysernet.net (199.109.7.195) 203.923 ms 199.920 ms 199.871 ms

18 nyc-9208-buf-9208.nysernet.net (199.109.7.105) 209.024 ms 209.136 ms 209.048 ms

19 columbia.nyc-9208.nysernet.net (199.109.7.105) 209.024 ms 209.136 ms 209.048 ms

20 co-core-1-x-ryers2-gw-1-net.columbia.edu (128.59.255.21) 209.368 ms 209.279 ms 209.383 ms

10 cc-core-1-x-cy-core-1-net.columbia.edu (128.59.255.21) 209.366 ms 209.279
```

There are 21 routers between my workstation and <u>www.columbia.edu</u>, there are 5 routers which are 1 to 5 along the path of UNSW network, between router 7 and router 8 cross the Pacific Ocean due to RTT between them increase lot.

2.

```
25223731@weill:~/Desktop/comp3331/lab01$ traceroute www.ucla.edu
traceroute to www.ucla.edu (164.67.228.152), 30 hops max, 60 byte packets

1 cserouter1-server.cse.unsw.EDU.AU (129.94.242.25) 0.278 ms 0.250 ms 0.231 ms

2 129.94.39.17 (129.94.39.17) 0.954 ms 0.988 ms 0.958 ms 0.958 ms 0.250 ms 0.231 ms

3 ombudnex1-vl-3154.gw.unsw.edu.au (149.171.255.35) 1.897 ms

4 libcr1-po-6.gw.unsw.edu.au (149.171.255.201) 1.384 ms ombcr1-po-6.gw.unsw.edu.au (149.171.255.169) 1.214 ms libcr1-po-
5.gw.unsw.edu.au (149.171.255.155) 1.341 ms

5 unswbr1-te-1-9.gw.unsw.edu.au (149.171.255.101) 1.424 ms unswbr1-te-2-13.gw.unsw.edu.au (149.171.255.105) 1.289 ms 1.
318 ms

6 138.44.5.0 (138.44.5.0) 1.458 ms 1.346 ms 1.319 ms

7 et-1-3-0.pel.sxt.bkvl.nsw.aarnet.net.au (113.197.15.149) 1.945 ms 1.777 ms 1.812 ms

8 et-0-0-0.pel.a.hnl.aarnet.net.au (113.197.15.99) 95.218 ms 95.239 ms 95.262 ms

9 et-2-1-0.bdr1.a.sea.aarnet.net.au (113.197.15.99) 146.702 ms 146.670 ms 146.660 ms

10 cenichpr-1-is-jmb-778.snvaca.pacificwave.net (207.231.245.129) 164.611 ms 164.101 ms 164.003 ms

12 hpr-lax-agg10-svl-agg10-l00gc.cenic.net (137.164.25.73) 160.510 ms 159.990 ms 160.456 ms

12 hpr-lax-agg10-svl-agg10-l00gc.cenic.net (137.164.25.73) 160.510 ms 159.990 ms 160.456 ms

13 ***

14 bd11f1.anderson--cr001.anderson.ucla.net (169.232.4.6) 160.971 ms

15 cr00f1.anderson--rtv11f4.mathsci.ucla.net (169.232.8.185) 160.282 ms cr00f2.csb1.ucla.net (169.232.8.1

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25223731@weill:~/Desktop/comp3331/lab01$ traceroute www.u-tokyo.ac.jp
```

```
25223731@weill:~/Desktop/comp3331/lab01$ traceroute www.u-tokyo.ac.jp
traceroute to www.u-tokyo.ac.jp (210.152.243.234), 30 hops max, 60 byte packets
1 cserouter1-server.cse.unsx.EDU.AU (129.94.242.251) 0.107 ms 0.125 ms 0.092 ms
2 129.94.39, 17 (129.94.39.17) 0.844 ms 0.837 ms 0.847 ms
3 libudnex1-v1-3154.gw.unsw.edu.au (149.171.253.34) 1.315 ms ombudnex1-v1-3154.gw.unsw.edu.au (149.171.253.34) 1.625 ms
4 libc1-po-5.gw.unsw.edu.au (149.171.255.165) 1.117 ms libcr1-po-6.gw.unsw.edu.au (149.171.255.201) 1.144 ms 1.236 ms
5 unswbr1-te-2-13.gw.unsw.edu.au (149.171.255.165) 1.123 ms unswbr1-te-1-9.gw.unsw.edu.au (149.171.255.101) 1.122 ms 1.
140 ms
6 138.44.5.0 (138.44.5.0) 2.675 ms 2.009 ms 1.997 ms
7 et-0-3-0.pcl.bkvl.nsw.aarnet.net.au (201.158.194.177) 155.012 ms 1.905 ms 1.845 ms
8 g-4-0_0.bbl.a.pao.aarnet.net.au (201.2158.194.177) 155.012 ms 154.011 ms 155.007 ms
9 paloalto0.iij.net (198.32.176.24) 156.468 ms 155.487 ms 156.560 ms
10 osk004bb00.IIJ.Net (58.138.88.185) 269.474 ms osk004bb01.IIJ.Net (58.138.88.189) 269.201 ms
11 osk004bb00.IIJ.Net (58.138.88.185) 269.474 ms osk004bb01.IIJ.Net (58.138.88.189) 269.201 ms
12 210.130.135.130 (210.130.135.130) 274.252 ms 274.268 ms 271.889 ms
13 124.83.225.81 (214.83.225.55) 269.472 ms 269.208 ms 269.239 ms
14 124.83.225.25 (124.83.225.55) 269.472 ms 269.208 ms 269.239 ms
14 124.83.225.25 (124.83.225.55) 269.472 ms 269.208 ms 269.239 ms
15 158.205.134.26 (158.205.134.26) 275.177 ms 293.596 ms 275.748 ms
16 ***
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```

```
25223731@weill:~/Desktop/comp3331/lab015 traceroute www.lancaster.ac.uk
traceroute to www.lancaster.ac.uk (148.88.65.80), 30 hops max, 60 byte packets
1 cserouter1-server.cse.unsw.EDU.AU (129.94.242.251) e.142 ms 0.112 ms 0.113 ms
2 129.94.39.17 (129.94.39.17) 0.928 ms 0.932 ms 0.9308 ms
3 ombudnex1-vl-3154.gw.unsw.edu.au (149.171.253.35) 1.312 ms 1.483 ms libudnex1-vl-3154.gw.unsw.edu.au (149.171.253.34)
1.332 ms
4 libcr1-po-5.gw.unsw.edu.au (149.171.255.165) 18.060 ms 18.054 ms libcr1-po-6.gw.unsw.edu.au (149.171.255.201) 18.174 ms
5 unswbr1-te-1-9.gw.unsw.edu.au (149.171.255.101) 1.359 ms 1.151 ms unswbr1-te-2-13.gw.unsw.edu.au (149.171.255.105) 1.
185 ms
6 138.44.5.0 (138.44.5.0) 1.543 ms 1.560 ms 1.534 ms
7 et-2-0-5.bdr1.sing.sin.aarnet.net.au (113.197.15.233) 99.197 ms 98.532 ms 98.408 ms
8 138.44.26.7 (138.44.26.7) 263.811 ms 263.778 ms 263.781 ms
9 janet-gw.mxl.lonuk.geant.net.au (114.193) 263.874 ms 263.845 ms 263.721 ms
10 ae29.londpg-sbr2.ja.net (146.97.33.2) 265.174 ms 265.295 ms 265.063 ms
11 ae31.erdiss-sbr2.ja.net (146.97.33.22) 268.785 ms 267.980 ms 268.446 ms
12 ae29.manckh-barl.ja.net (146.97.33.22) 276.616 ms 270.092 ms 270.092 ms 285.082 ms
14 lancaster-uni.ja.net (146.97.33.25) 270.098 ms 270.091 ms 270.095 ms
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25223731@weill:~/Desktop/comp3331/lab01$ []
```

The path from my machine to these destinations diverge at router 6

The details about router 6:

The host name of this router is AARNET and it stands for Australian Academic and Research Network

The number of hops on each path isn't proportional the physical distance.

```
1 gigabitethernet3-3.exi2.melbourne.telstra.net (203.50.77.53) 0.310 ms 0.202 ms 0.243 ms
2 bundle-ether3-100.win-corel0.melbourne.telstra.net (203.50.80.129) 2.613 ms 1.604 ms 2.240 ms
3 bundle-ether12.ken-corel0.sydney.telstra.net (203.50.11.122) 12.735 ms 12.224 ms 12.737 ms
4 bundle-ether1.ken-edge903.sydney.telstra.net (203.50.11.173) 12.110 ms 12.099 ms 12.235 ms
5 aar3533567.lnk.telstra.net (139.130.0.78) 11.611 ms 11.600 ms 11.736 ms
6 et-7-1-0.pel.brwy.nsw.aarnet.net.au (113.197.15.13) 20.605 ms 14.346 ms 13.609 ms
7 138.44.5.1 (138.44.5.1) 11.987 ms 11.975 ms 11.986 ms
8 libcrl-te-1-5.gw.unsw.edu.au (149.171.255.102) 12.109 ms 11.973 ms 11.986 ms
9 libudnex1-po-1.gw.unsw.edu.au (149.171.255.166) 12.360 ms 12.224 ms 12.361 ms
10 ufwl-ae-1-3154.gw.unsw.edu.au (149.171.253.36) 12.734 ms 12.725 ms 12.735 ms
11 129.94.39.23 (129.94.39.23) 13.110 ms 12.849 ms 12.861 ms
```

There are other traceroute sites listed here.

The traceroute CGI source can be found via:

=carpeNet

The screenshot from https://www.telstra.net/cgi-bin/trace

The screenshot of reversing traceroute www.telstra.net

```
z5223731@weill:~/Desktop/comp3331/lab01$ traceroute www.telstra.net
traceroute to www.telstra.net (203.50.5.178), 30 hops max, 60 byte packets
1 cserouter1-server.cse.unsw.EDU.AU (129.94.242.251) 0.351 ms 0.410 ms 0.379 ms
2 129.94.39.17 (129.94.39.17) 1.052 ms 1.024 ms 1.145 ms
3 ombudnex1-v1-3154.gw.unsw.edu.au (149.171.253.35) 2.089 ms 2.085 ms 2.080 ms
4 ombcr1-po-5.gw.unsw.edu.au (149.171.255.197) 1.266 ms libcr1-po-5.gw.unsw.edu.au (149.171.255.165) 1.270 ms 1.286 m
5 unswbr1-te-1-9.gw.unsw.edu.au (149.171.255.101) 1.337 ms 1.256 ms 1.334 ms
6 138.44.5.0 (138.44.5.0) 1.548 ms 1.250 ms 1.743 ms
7 et-1-1-0.pel.rsby.nsw.aarnet.net.au (113.197.15.12) 1.775 ms 1.606 ms 1.716 ms
8 xe-0-0-3.bdr1.rsby.nsw.aarnet.net.au (113.197.15.31) 1.502 ms 1.493 ms 1.489 ms
9 HundredGigE0-1-0-4.ken-edge903.sydney.telstra.net (139.130.0.77) 2.077 ms 2.089 ms 2.164 ms
10 bundle-ether2.chw-edge903.sydney.telstra.net (203.50.11.175) 2.559 ms bundle-ether17.ken-core10.sydney.telstra.net (203.50.11.175) 2.374 ms
11 bundle-ether10.win-core10.melbourne.telstra.net (203.50.11.123) 13.388 ms 13.455 ms 14.116 ms
12 bundle-ether8.exi-core10.melbourne.telstra.net (203.50.11.120) 15.257 ms 15.081 ms 15.252 ms
13 bundle-ether2.exi-ncprouter101.melbourne.telstra.net (203.50.11.209) 15.257 ms 15.081 ms 15.252 ms
14 www.telstra.net (203.50.5.178) 13.762 ms 13.831 ms 13.444 ms
1522373(Jeweill:w/Desktor/comp3331/jab15 traceroute www.telstra.net/conj-bin/trace
```

The screenshot of reversing traceroute www.speedtest.com.sg

```
Z5223731@weill:~/Desktop/comp3331/lab01$ traceroute www.speedtest.com.sg
traceroute to www.speedtest.com.sg (202.150.221.170), 30 hops max, 60 byte packets

1 cserouter1-server.cse.unsw.EDU.AU (129.94.242.251) 0.152 ms 0.128 ms 0.150 ms

2 129.94.39.17 (129.94.39.17) 0.984 ms 1.113 ms 0.941 ms

3 libudnex1-v1-3154.gw.unsw.edu.au (149.171.255.197) 1.224 ms libcr1-po-6.gw.unsw.edu.au (149.171.255.201) 1.204 ms ombcr1-po-5.gw.unsw.edu.au (149.171.255.197) 1.181 ms

5 unswbr1-te-1-9.gw.unsw.edu.au (149.171.255.101) 1.251 ms unswbr1-te-2-13.gw.unsw.edu.au (149.171.255.105) 1.436 ms u
nswbr1-te-1-9.gw.unsw.edu.au (149.171.255.101) 1.206 ms

6 138.44.5.0 (138.44.5.0) 1.389 ms 1.885 ms 1.856 ms

7 et-0-3-0.pe1.alxd.nsw.aarnet.net.au (113.197.15.153) 1.677 ms 1.791 ms 1.771 ms

8 xe-0-2-7.bdr1.a.lax.aarnet.net.au (202.158.194.173) 147.725 ms 147.710 ms 147.691 ms

9 singtel.as7473.any2ix.coresite.com (206.72.210.63) 147.813 ms 147.794 ms 147.770 ms

10 203.208.173.21 (203.208.173.21) 325.372 ms 203.208.154.45 (203.208.154.45) 328.198 ms 203.208.171.117 (203.208.171.1

11 148.668 ms

11 203.208.172.145 (203.208.172.145) 245.338 ms 203.208.177.110 (203.208.177.110) 328.652 ms 321.088 ms

12 203.208.182.253 (203.208.182.253) 336.790 ms * 203.208.183.250 (203.208.183.250) 243.290 ms

13 203.208.177.110 (203.208.177.110) 330.135 ms 316.491 ms 316.463 ms

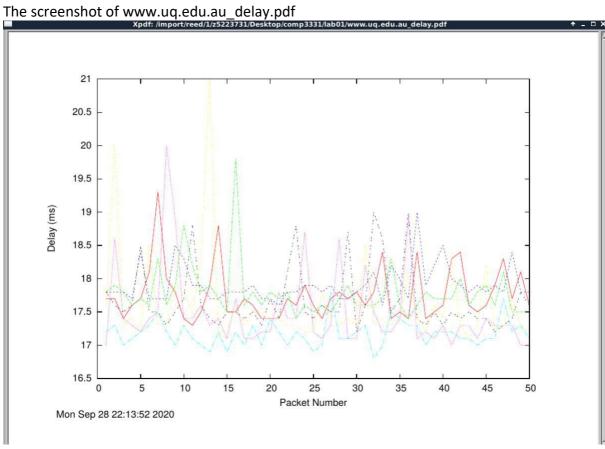
14 * 202-150-221-170.rev.ne.com.sg (202.150.221.170) 201.683 ms *

25223731@weill:~/Desktop/comp3331/lab01$
```

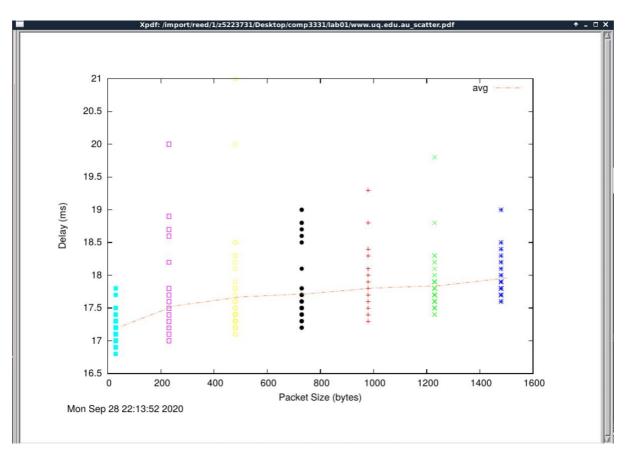
The IP addresses of two servers I have chosen are 203.50.5.178 and 202.150.221.170 As the screenshot shown above, the reverse path doesn't go through the same routers as the forward path.

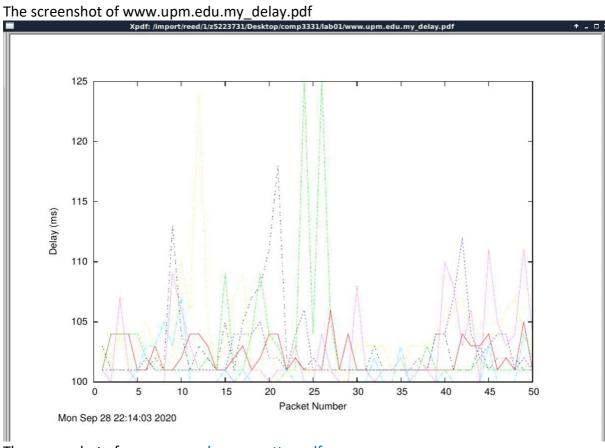
As the screenshot shown above, there aren't common routers and IP addresses between forward and reverse path.

The reason why there aren't common routers and IP addresses is probably there are multiple routers and multiple path between my machine and destination. The router or path the packet are heading to is arbitrary.

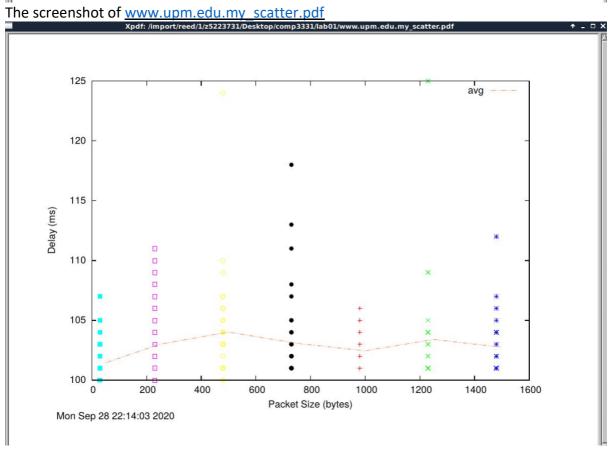


The screenshot of www.uq.edu.au_scatter.pdf

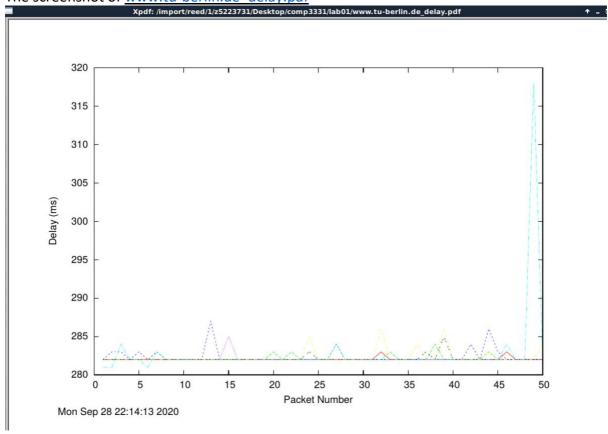


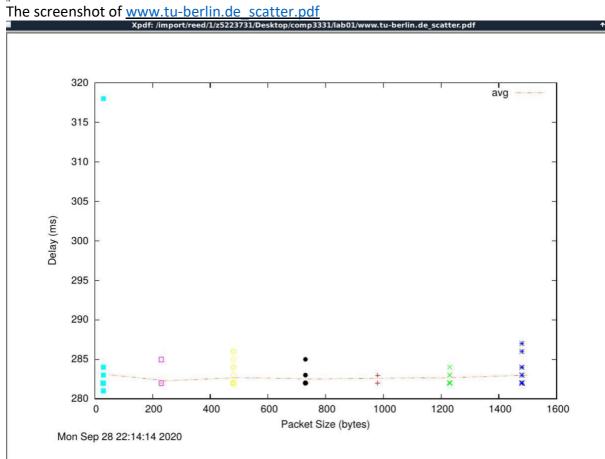






The screenshot of www.tu-berlin.de delay.pdf



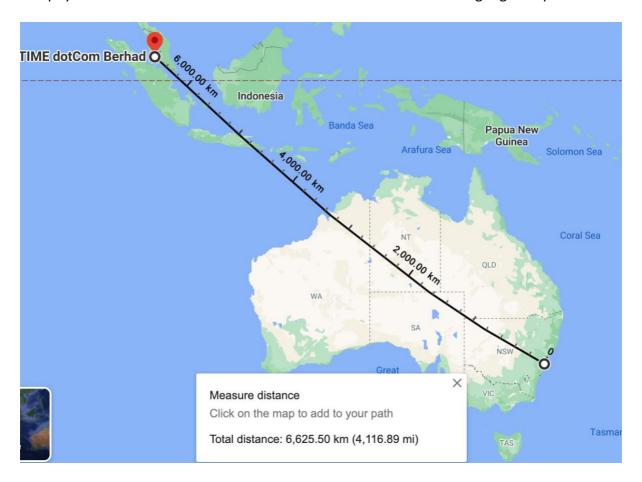


The University of Queensland

The Un

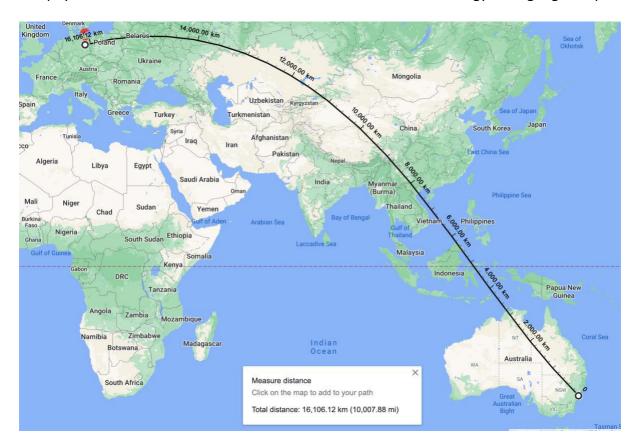
Hence the shortest possible time T is 733910/(3 \times 10 8) = 2.44636666 ms

The physical distance between UNSW and TIME dotCom Berhad from google map is

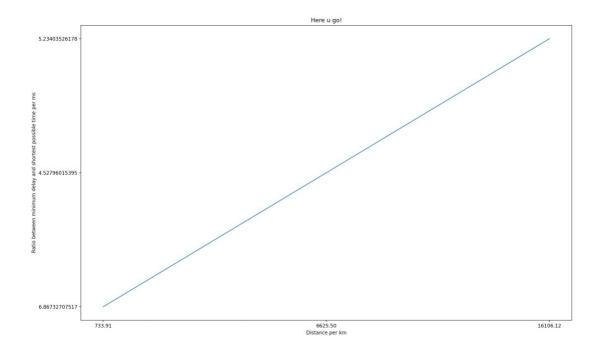


Hence the shortest possible time T is 6625500/(3 \times 10 8) = 22.085 ms

The physical distance between UNSW and Berlin Institute of Technology from google map is



Hence the shortest possible time T is 16106120/(3 \times 10⁸) = 53.68706666 ms



The two reasons are transmission delay and queuing delay

2. It can vary over time due to the queuing delay.

3.

It is in USA and Canada

z5223731@weill:~/Desktop\$ nslookup www.epfl.ch

Server: 129.94.242.2 Address: 129.94.242.2#53

Non-authoritative answer:

www.epfl.ch canonical name = www.epfl.ch.cdn.cloudflare.net.

Name: www.epfl.ch.cdn.cloudflare.net

Address: 104.20.229.42

Name: www.epfl.ch.cdn.cloudflare.net

Address: 172.67.2.106

Name: www.epfl.ch.cdn.cloudflare.net

Address: 104.20.228.42

z5223731@weill:~/Desktop\$

Geolocation data from IP2Location (Product: DB6, updated on 2020-9-1)

IP Address	Country	Region	City
104.20.229.42	United States of America	California	San Francisco
ISP	Organization	Latitude	Longitude
CloudFlare Inc.	Not Available	37.7757	-122.3952

Geolocation data from ipinfo.io (Product: API, real-time)

IP Address	Country	Region	City
104.20.229.42	United States	New York	New York City
ISP	Organization	Latitude	Longitude
Cloudflare, Inc.	Cloudflare, Inc.	40.7143	-74.0060

Geolocation data from DB-IP (Product: Full, 2020-9-1)

IP Address	Country	Region	City
104.20.229.42	Canada 💽	Quebec	Montreal
ISP	Organization	Latitude	Longitude
Cloudflare, Inc.	Cloudflare, Inc.	45.5017	-73.5673

Geolocation data from ipdata.co (Product: API, real-time)

IP Address	Country	Region	City
104.20.229.42	United States	Not Available	Not Available
ISP	Organization	Latitude	Longitude
Cloudflare, Inc.	Not Available	37.751	-97.822

Geolocation data from IP2Location (Product: DB6, updated on 2020-9-1)

IP Address	Country	Region	City
172.67.2.106	United States of America	California	San Francisco
ISP	Organization	Latitude	Longitude
CloudFlare Inc.	Not Available	37.7757	-122.3952

Geolocation data from ipinfo.io (Product: API, real-time)

IP Address	Country	Region	City
172.67.2.106	United States	New York	New York City
ISP	Organization	Latitude	Longitude
Cloudflare, Inc.	Cloudflare, Inc.	40.7143	-74.0060

Geolocation data from DB-IP (Product: Full, 2020-9-1)

IP Address	Country	Region	City
172.67.2.106	Canada 💽	Quebec	Montreal
ISP	Organization	Latitude	Longitude
Cloudflare, Inc.	Cloudflare, Inc.	45.5017	-73.5673

Geolocation data from ipdata.co (Product: API, real-time)

IP Address	Country	Region	City
172.67.2.106	United States	Not Available	Not Available
ISP	Organization	Latitude	Longitude
Not Available	Not Available	37.751	-97.822

Geolocation data from IP2Location (Product: DB6, updated on 2020-9-1)

IP Address	Country	Region	City
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ISP	Organization	Latitude	Longitude
CloudFlare Inc.	Not Available	37.7757	-122.3952

Geolocation data from ipinfo.io (Product: API, real-time)

IP Address	Country	Region	City
104.20.228.42	United States	New York	New York City
ISP	Organization	Latitude	Longitude
Cloudflare, Inc.	Cloudflare, Inc. (cloudflare.com)	40.7143	-74.0060

Geolocation data from DB-IP (Product: Full, 2020-9-1)

IP Address	Country	Region	City
104.20.228.42	Canada 💽	Quebec	Montreal
ISP	Organization	Latitude	Longitude
Cloudflare, Inc.	Cloudflare, Inc.	45.5017	-73.5673

Geolocation data from ipdata.co (Product: API, real-time)

IP Address	Country	Region	City
104.20.228.42	United States	Not Available	Not Available
ISP	Organization	Latitude	Longitude
Cloudflare, Inc.	Not Available	37.751	-97.822

4. Transmission and processing delay depend on the packet size. Queuing and propagation delay do not.