

ePingER traceroutes

Pinger to TRIUMF

```
103cottrell@pinger:~$straceroute sitka.triumf.ca
traceroute to sitka.triumf.ca (142.90.106.59), 30 hops max, 60 byte packets
1 rtr-servcore1-serv01-iepm.slac.stanford.edu (134.79.104.66) 0.376 ms 134.79.104.67 (134.79.104.67) 0.369 ms 0.628 ms
2 rtr-core1-p2p-serv01-02.slac.stanford.edu (134.79.253.253) 0.354 ms 0.443 ms rtr-core2-p2p-serv01-01.slac.stanford.edu (134.79.254.65) 0.519 ms
3 rtr-fwcore2-trust-p2p-core2.slac.stanford.edu (134.79.254.146) 0.711 ms rtr-fwcore1-trust-p2p-core1.slac.stanford.edu (134.79.254.134) 0.699 ms rtr-
fwcore2-trust-p2p-core2.slac.stanford.edu (134.79.254.146) 0.646 ms
4 rtr-core2-p2p-fwcore2-untrust.slac.stanford.edu (134.79.254.149) 0.806 ms 0.868 ms 0.926 ms
5 ***
6 sunncr5-ip-c-slac.slac.stanford.edu (192.68.191.233) 1.525 ms 1.610 ms 1.512 ms
7 sacrcr5-ip-a-sunncr5.es.net (134.55.40.5) 4.084 ms 4.287 ms 4.496 ms
8 pnwgr5-ip-a-sacrcr5.es.net (134.55.43.21) 18.322 ms 18.715 ms 18.353 ms
9 207.231.240.21 (207.231.240.21) 21.669 ms 21.353 ms 21.629 ms
10 288-canarie-oran-cr1.vncv1.bc.net (205.189.32.173) 21.621 ms 21.815 ms 21.793 ms
11 R2-TRIUMF-ORAN.BC.net (142.231.1.50) 22.010 ms 21.600 ms 21.572 ms
12 jfire-wanfw-reth0-200.triumf.ca (142.90.1.2) 22.079 ms 22.065 ms 22.215 ms
13 tr-lan-irb-208.triumf.ca (142.90.1.33) 22.537 ms 22.419 ms 22.266 ms
14 andrew.triumf.ca (142.90.106.59) 22.449 ms !X 22.442 ms !X 22.294 ms !X
```

My traceroute [v0.75]

pinger (0.0.0.0)

Tue Jul 28 21:16:56 2015

Keys: Help Display mode Restart statistics Order of fields quit

Host	Packets		Pings					
	Loss%	Snt	Last	Avg	Best	Wrst	StDev	
1. rtr-servcore1-serv01-iepm.slac.stanford.	0.0%	179	0.4	1.1	0.4	44.4	3.9	
2. rtr-core1-p2p-serv01-01.slac.stanford.ed	0.0%	179	0.4	0.6	0.3	37.7	2.8	
3. rtr-fwcore1-trust-p2p-core1.slac.stanfor	0.0%	179	0.4	0.4	0.4	0.6	0.0	
4. rtr-core1-p2p-fwcore1-untrust.slac.stanf	0.0%	179	0.5	0.5	0.5	1.3	0.1	
5. ???								
6. sunncr5-ip-c-slac.slac.stanford.edu	0.0%	179	1.3	1.9	1.2	30.6	3.0	
7. sacrcr5-ip-a-sunncr5.es.net	0.0%	179	3.8	3.8	3.8	4.3	0.1	
8. pnwgr5-ip-a-sacrcr5.es.net	0.0%	179	18.5	18.3	18.1	32.0	1.3	
9. 207.231.240.21	0.0%	179	21.2	21.5	21.1	54.7	2.7	
10. 288-canarie-oran-cr1.vncv1.bc.net	0.0%	178	21.2	21.2	21.1	24.8	0.3	
11. R2-TRIUMF-ORAN.BC.net	0.0%	178	21.6	21.6	21.4	22.6	0.1	
12. jfire-wanfw-reth0-200.triumf.ca	0.0%	178	21.9	21.9	21.8	23.0	0.1	
13. tr-lan-irb-208.triumf.ca	0.0%	178	22.1	22.4	22.1	28.0	0.7	
14. andrew.triumf.ca	0.0%	178	22.6	22.3	22.1	25.9	0.3	

My traceroute [v0.75]

pinger (0.0.0.0)

Tue Jul 28 21:57:48 2015

Keys: Help Display mode Restart statistics Order of fields quit

Host	Packets		Pings					
	Loss%	Snt	Last	Avg	Best	Wrst	StDev	
1. rtr-servcore1-serv01-iepm.slac.stanford	0.0%	1706	1.1	1.2	0.4	85.8	6.0	
2. rtr-core1-p2p-serv01-01.slac.stanford.e	0.0%	1705	0.5	0.3	0.3	53.5	1.5	
3. rtr-fwcore1-trust-p2p-core1.slac.stanfo	0.0%	1705	0.4	0.4	0.4	1.5	0.1	
4. rtr-core1-p2p-fwcore1-untrust.slac.stan	0.0%	1705	2.4	0.5	0.5	50.0	2.1	
5. ???								
6. sunncr5-ip-c-slac.slac.stanford.edu	0.0%	1705	1.3	1.9	1.2	61.8	4.8	
7. sacrcr5-ip-a-sunncr5.es.net	0.0%	1705	3.8	3.8	3.8	11.6	0.6	
8. pnwgr5-ip-a-sacrcr5.es.net	0.0%	1705	18.2	18.2	18.1	46.9	1.7	
9. 207.231.240.21	0.0%	1705	21.3	21.2	21.1	55.3	2.1	
10. 288-canarie-oran-cr1.vncv1.bc.net	0.0%	1705	21.2	21.1	21.1	32.7	0.7	
11. R2-TRIUMF-ORAN.BC.net	0.0%	1705	21.4	21.4	21.4	37.5	0.8	
12. jfire-wanfw-reth0-200.triumf.ca	0.0%	1705	21.8	21.8	21.7	31.6	0.4	
13. tr-lan-irb-208.triumf.ca	0.0%	1705	22.4	22.9	22.1	50.8	2.8	
14. andrew.triumf.ca	0.0%	1705	22.4	22.3	22.0	48.2	0.9	

[ping localhost](#)

Run at same time

	pinger. slac.stanford.edu	pinger.raspberry.slac.stanford.edu
localhost	--- localhost.slac.stanford.edu ping statistics --- 96 packets transmitted, 96 received, 0% packet loss, time 95525ms rtt min/avg/max/mdev = 0.035/0.058/0.110/0.018 ms	--- localhost ping statistics --- 95 packets transmitted, 95 received, 0% packet loss, time 94090ms rtt min/avg/max/mdev = 0.172/0.188/0.262/0.022 ms
localhost	--- localhost.slac.stanford.edu ping statistics --- 980 packets transmitted, 980 received, 0% packet loss, time 979103ms rtt min/avg/max/mdev = 0.025/0.053/0.107/0.018 ms	--- localhost ping statistics --- 979 packets transmitted, 979 received, 0% packet loss, time 978949ms rtt min/avg/max/mdev = 0.136/0.186/0.532/0.027 ms
localhost	--- localhost.slac.stanford.edu ping statistics --- 792 packets transmitted, 792 received, 0% packet loss, time 791590ms rtt min/avg/max/mdev = 0.018/0.041/0.127/0.018 ms 109cottrell@pinger:~\$	--- localhost ping statistics --- 787 packets transmitted, 787 received, 0% packet loss, time 786780ms rtt min/avg/max/mdev = 0.152/0.185/0.278/0.021 ms pi@pinger-raspberry ~ \$
localhost	--- localhost.slac.stanford.edu ping statistics --- 418 packets transmitted, 418 received, 0% packet loss, time 417867ms rtt min/avg/max/mdev = 0.034/0.059/0.118/0.017 ms 110cottrell@pinger:~\$	--- localhost ping statistics --- 414 packets transmitted, 414 received, 0% packet loss, time 413389ms rtt min/avg/max/mdev = 0.157/0.184/0.261/0.022 ms pi@pinger-raspberry ~ \$ nslookup localhost
1st hop	--- rtr-servcore1-serv01-iepm.slac.stanford.edu ping statistics --- 149 packets transmitted, 149 received, 0% packet loss, time 148137ms rtt min/avg/max/mdev = 0.294/1.739/59.294/7.461 ms	--- rtr-bldgcore1-b050f3-public.slac.stanford.edu ping statistics --- 147 packets transmitted, 147 received, 0% packet loss, time 146236ms rtt min/avg/max/mdev = 0.584/1.571/27.380/3.277 ms
sitka.triumf.ca	--- andrew.triumf.ca ping statistics --- 209 packets transmitted, 209 received, 0% packet loss, time 208542ms rtt min/avg/max/mdev = 22.110/22.372/22.735/0.203 ms	--- andrew.triumf.ca ping statistics --- 215 packets transmitted, 214 received, 0% packet loss, time 214350ms rtt min/avg/max/mdev = 22.432/22.699/22.988/0.128 ms

Raspberry to TRIUMF

```

pi@pinger-raspberry ~ $ traceroute sitka.triumf.ca
traceroute to sitka.triumf.ca (142.90.106.59), 30 hops max, 60 byte packets
 1 rtr-bldgcore1-b050f3-public.slac.stanford.edu (134.79.230.2) 1.945 ms 1.523 ms 1.197 ms
 2 rtr-core1-p2p-bldgcore1.slac.stanford.edu (134.79.252.237) 0.565 ms 0.545 ms 0.539 ms
 3 rtr-fwcore1-trust-p2p-core1.slac.stanford.edu (134.79.254.134) 0.948 ms 0.955 ms 0.849 ms
 4 rtr-core1-p2p-fwcore1-untrust.slac.stanford.edu (134.79.254.137) 0.963 ms 1.158 ms 1.036 ms
 5 * * *
 6 sunncr5-ip-c-slac.slac.stanford.edu (192.68.191.233) 1.992 ms 2.620 ms 2.452 ms
 7 sacrcr5-ip-a-sunncr5.es.net (134.55.40.5) 4.324 ms 4.332 ms 4.370 ms
 8 pnwgr5-ip-a-sacrcr5.es.net (134.55.43.21) 23.162 ms 25.429 ms 30.763 ms
 9 207.231.240.21 (207.231.240.21) 21.718 ms 21.717 ms 21.605 ms
10 288-canarie-oran-cr1.vncv1.bc.net (205.189.32.173) 21.675 ms 21.867 ms 21.717 ms
11 R2-TRIUMF-ORAN.BC.net (142.231.1.50) 22.137 ms 21.806 ms 22.020 ms
12 jfire-wanfw-reth0-200.triumf.ca (142.90.1.2) 22.403 ms 22.577 ms 22.480 ms
13 tr-lan-irb-208.triumf.ca (142.90.1.33) 23.045 ms 22.724 ms 22.703 ms
14 andrew.triumf.ca (142.90.106.59) 22.793 ms !X 22.796 ms !X 22.746 ms !X

```

10 queries and ICMP

```

1 rtr-bldgcore1-b050f3-public.slac.stanford.edu (134.79.230.2) 0.927 ms 0.629 ms 0.693 ms 0.443 ms 1.040 ms 0.840 ms 0.735 ms 0.513 ms 0.416 ms
0.421 ms
2 rtr-core1-p2p-bldgcore1.slac.stanford.edu (134.79.252.237) 0.710 ms 0.521 ms 0.508 ms 0.605 ms 0.538 ms 0.597 ms 0.588 ms 0.557 ms 0.520 ms
0.539 ms
3 rtr-fwcore1-trust-p2p-core1.slac.stanford.edu (134.79.254.134) 0.699 ms 0.665 ms 0.711 ms 0.675 ms 0.688 ms 0.724 ms 0.696 ms 0.700 ms 0.681 ms
0.693 ms
4 rtr-core1-p2p-fwcore1-untrust.slac.stanford.edu (134.79.254.137) 0.836 ms 0.801 ms 0.978 ms 0.784 ms 0.800 ms 0.790 ms 0.817 ms 0.773 ms 1.006
ms 0.801 ms
5 *****
6 sunnrcr5-ip-c-slac.slac.stanford.edu (192.68.191.233) 1.578 ms 1.608 ms 1.568 ms 1.907 ms 1.796 ms 1.755 ms 1.541 ms 1.608 ms 1.722 ms 1.642 ms
7 sacrcr5-ip-a-sunnrcr5.es.net (134.55.40.5) 4.518 ms 4.411 ms 4.190 ms 4.042 ms 4.149 ms 4.295 ms 4.087 ms 4.098 ms 4.130 ms 4.140 ms
8 pnwgrcr5-ip-a-sacrcr5.es.net (134.55.43.21) 18.363 ms 18.745 ms 18.349 ms 18.411 ms 18.389 ms 18.336 ms 18.363 ms 18.390 ms 18.349 ms 18.428
ms
9 207.231.240.21 (207.231.240.21) 21.590 ms 21.459 ms 21.366 ms 21.320 ms 21.474 ms 21.352 ms 21.716 ms 21.432 ms 22.450 ms 21.949 ms
10 288-canarie-oran-cr1.vncv1.bc.net (205.189.32.173) 21.411 ms 21.381 ms 21.424 ms 21.401 ms 21.487 ms 21.426 ms 21.403 ms 21.423 ms 22.265
ms 21.992 ms
11 R2-TRIUMF-ORAN.BC.net (142.231.1.50) 22.537 ms 22.249 ms 21.606 ms 21.771 ms 21.667 ms 21.581 ms 21.601 ms 21.556 ms 21.667 ms 21.620
ms
12 jfire-wanfw-reth0-200.triumf.ca (142.90.1.2) 22.091 ms 22.112 ms 22.099 ms 22.089 ms 21.904 ms 22.277 ms 22.062 ms 22.112 ms 22.053 ms 22.111
ms
13 tr-lan-irb-208.triumf.ca (142.90.1.33) 22.888 ms 22.458 ms 22.365 ms 22.394 ms 22.363 ms 22.319 ms 22.510 ms 22.517 ms 22.349 ms 22.456 ms
14 andrew.triumf.ca (142.90.106.59) 22.550 ms 22.485 ms 22.467 ms 22.418 ms 22.564 ms 22.575 ms 22.547 ms 22.479 ms 22.741 ms 22.450 ms
pi@pinger-raspberry ~ $

```

pingroute.pl

			pings/node=100	100 byte packets			1400 byte packets					
NODE	%loss	min	max	avg	%loss	min	max	avg	dup	from		
pinger-raspberry.slac.stanford.edu												
134.79.230.2 RTR-BLDGCORE1-B050F3-PUBLIC.SL 28 21:34:23 PDT 2015	0%	0.6	13.5	1.4	0%	1.2	96.5	2.8	0	Tue Jul		
134.79.252.237 RTR-CORE1-P2P-BLDGCORE1.SLAC.S 28 21:35:03 PDT 2015	0%	0.6	44.9	1.4	0%	1.1	2.6	1.3	0	Tue Jul		
134.79.254.134 RTR-FWCORE1-TRUST-P2P-CORE1.SL 28 21:35:43 PDT 2015	0%	0.8	1.0	0.8	0%	1.5	1.7	1.6	0	Tue Jul		
134.79.254.137 RTR-CORE1-P2P-FWCORE1-UNTRUST. 28 21:36:23 PDT 2015	0%	0.6	1.8	0.8	0%	1.2	4.8	1.4	0	Tue Jul		
192.68.191.233 SUNNCR5-IP-C-SLAC.SLAC.STANFOR 28 21:37:03 PDT 2015	0%	1.5	2.2	1.6	0%	2.3	3.9	2.4	0	Tue Jul		
134.55.40.5 SACRCR5-IP-A-SUNNCR5.ES.NET 28 21:37:43 PDT 2015	0%	4.0	4.4	4.1	0%	4.8	5.3	4.9	0	Tue Jul		
134.55.43.21 PNWGR5-IP-A-SACRCR5.ES.NET 28 21:38:23 PDT 2015	0%	18.4	22.6	18.5	0%	19.1	29.8	19.3	0	Tue Jul		
207.231.240.21 207.231.240.21 28 21:39:03 PDT 2015	0%	0.0	0.0	0.0	100%	0.0	0.0	0.0	0	Tue Jul		
205.189.32.173 288-CANARIE-ORAN-CR1.VNCV1.BC. 28 21:40:04 PDT 2015	0%	21.7	30.0	21.9	0%	22.6	33.6	23.0	0	Tue Jul		
142.231.1.50 R2-TRIUMF-ORAN.BC.NET 28 21:40:44 PDT 2015	0%	22.3	36.3	23.6	0%	23.6	31.5	24.4	0	Tue Jul		
142.90.1.2 JFIRE-WANFW-RETH0-200.TRIUMF.C 28 21:41:24 PDT 2015	0%	22.1	22.4	22.2	0%	22.9	25.0	23.1	0	Tue Jul		
142.90.1.33 TR-LAN-IRB-208.TRIUMF.CA 28 21:42:04 PDT 2015	0%	22.6	34.5	23.1	0%	23.7	30.2	24.1	0	Tue Jul		
142.90.106.59 ANDREW.TRIUMF.CA 28 21:42:44 PDT 2015	0%	22.6	23.3	22.8	0%	23.5	26.1	23.7	0	Tue Jul		

```

pingroute.pl version=2.2, 4/1/12. Author cottrell@slac.stanford.edu, debug=1
using traceroute -q 1 sitka.triumf.ca to get nodes in route from pinger-raspberry.slac.stanford.edu (134.79.230.21) to sitka.triumf.ca starting at node 1
pingroute.pl version 2.2, 4/1/12 found 14 hops in route from pinger-raspberry.slac.stanford.edu to sitka.triumf.ca
traceroute to sitka.triumf.ca (142.90.106.59), 30 hops max, 140 byte packets
 1 rtr-bldgcore1-b050f3-public.slac.stanford.edu (134.79.230.2) 0.858 ms
 2 rtr-core1-p2p-bldgcore1.slac.stanford.edu (134.79.252.237) 0.625 ms
 3 rtr-fwcore1-trust-p2p-core1.slac.stanford.edu (134.79.254.134) 1.351 ms
 4 rtr-core1-p2p-fwcore1-untrust.slac.stanford.edu (134.79.254.137) 1.036 ms
 5 *
 6 sunncr5-ip-c-slac.slac.stanford.edu (192.68.191.233) 2.096 ms
 7 sacrcr5-ip-a-sunncr5.es.net (134.55.40.5) 4.500 ms
 8 pnwgr5-ip-a-sacrcr5.es.net (134.55.43.21) 18.682 ms
 9 207.231.240.21 (207.231.240.21) 21.692 ms
10 288-canarie-oran-cr1.vncv1.bc.net (205.189.32.173) 21.846 ms
11 R2-TRIUMF-ORAN.BC.net (142.231.1.50) 22.025 ms
12 jfire-wanfw-reth0-200.triumf.ca (142.90.1.2) 22.659 ms
13 tr-lan-irb-208.triumf.ca (142.90.1.33) 22.713 ms
14 andrew.triumf.ca (142.90.106.59) 23.064 ms !X
Wrote 15 addresses to /tmp/pingaddr, now ping each address 100 times from pinger-raspberry.slac.stanford.edu starting at hop 1 using ping -s 100 -c 100 -n
pings/node=100 100 byte packets 1400 byte packets
NODE %loss min max avg %loss min max avg dup from pinger-raspberry.slac.stanford.edu
134.79.230.2 RTR-BLDGCORE1-B050F3-PUBLIC.SL 0% 0.6 13.5 1.4 0% 1.2 96.5 2.8 0 Tue Jul 28 21:34:23 PDT 2015
134.79.252.237 RTR-CORE1-P2P-BLDGCORE1.SLAC.S 0% 0.6 44.9 1.4 0% 1.1 2.6 1.3 0 Tue Jul 28 21:35:03 PDT 2015
134.79.254.134 RTR-FWCORE1-TRUST-P2P-CORE1.SL 0% 0.8 1.0 0.8 0% 1.5 1.7 1.6 0 Tue Jul 28 21:35:43 PDT 2015
134.79.254.137 RTR-CORE1-P2P-FWCORE1-UNTRUST. 0% 0.6 1.8 0.8 0% 1.2 4.8 1.4 0 Tue Jul 28 21:36:23 PDT 2015
192.68.191.233 SUNNCR5-IP-C-SLAC.SLAC.STANFOR 0% 1.5 2.2 1.6 0% 2.3 3.9 2.4 0 Tue Jul 28 21:37:03 PDT 2015
134.55.40.5 SACRCR5-IP-A-SUNNCR5.ES.NET 0% 4.0 4.4 4.1 0% 4.8 5.3 4.9 0 Tue Jul 28 21:37:43 PDT 2015
134.55.43.21 PNWGCR5-IP-A-SACRCR5.ES.NET 0% 18.4 22.6 18.5 0% 19.1 29.8 19.3 0 Tue Jul 28 21:38:23 PDT 2015
207.231.240.21 207.231.240.21 0% 0.0 0.0 0.0 100% 0.0 0.0 0.0 0 Tue Jul 28 21:39:03 PDT 2015
205.189.32.173 288-CANARIE-ORAN-CR1.VNCV1.BC. 0% 21.7 30.0 21.9 0% 22.6 33.6 23.0 0 Tue Jul 28 21:40:04 PDT 2015
142.231.1.50 R2-TRIUMF-ORAN.BC.NET 0% 22.3 36.3 23.6 0% 23.6 31.5 24.4 0 Tue Jul 28 21:40:44 PDT 2015
142.90.1.2 JFIRE-WANFW-RETH0-200.TRIUMF.C 0% 22.1 22.4 22.2 0% 22.9 25.0 23.1 0 Tue Jul 28 21:41:24 PDT 2015
142.90.1.33 TR-LAN-IRB-208.TRIUMF.CA 0% 22.6 34.5 23.1 0% 23.7 30.2 24.1 0 Tue Jul 28 21:42:04 PDT 2015
142.90.106.59 ANDREW.TRIUMF.CA 0% 22.6 23.3 22.8 0% 23.5 26.1 23.7 0 Tue Jul 28 21:42:44 PDT 2015

```

First hop ping

```

--- rtr-bldgcore1-b050f3-public.slac.stanford.edu ping statistics ---
1705 packets transmitted, 1705 received, 0% packet loss, time 1706652ms
rtt min/avg/max/mdev = 0.534/2.815/120.473/9.986 ms

```