

Pantheon Report

Generated at 2017-09-22 12:40:24 (UTC).

Data path: GCE Tokyo Ethernet (*remote*) → GCE Sydney Ethernet (*local*).

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

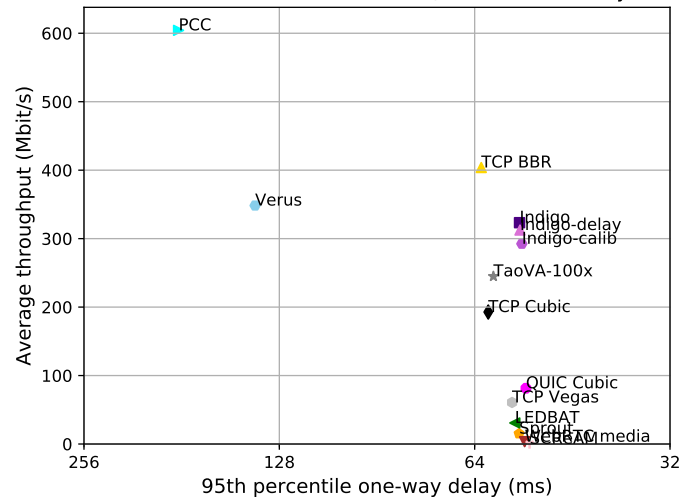
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo.fast**).

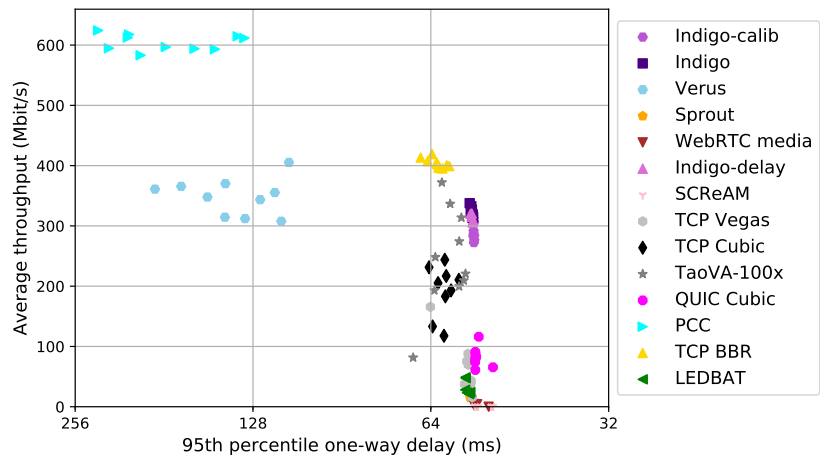
Git summary:

```
branch: indigos @ 46c7c812d4acb71eea4f5fb0b03b3657cea3062f
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fabb936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from GCE Tokyo Ethernet to GCE Sydney Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE Tokyo Ethernet to GCE Sydney Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	204.16	204.34	194.17	61.33	63.07	63.70	0.40	0.59	1.25
TCP Cubic	9	85.28	109.85	106.76	470.45	60.88	61.15	0.34	0.71	1.69
LEDBAT	7	16.89	16.43	9.02	55.58	55.47	55.19	0.72	0.92	1.75
PCC	10	507.63	127.90	36.00	191.68	144.80	143.63	2.10	1.19	2.24
QUIC Cubic	10	48.18	36.63	27.64	51.96	52.21	52.06	0.47	0.91	1.19
SCReAM	10	30.17	0.21	0.22	452.25	51.29	50.71	0.24	0.46	1.07
WebRTC media	9	1.71	1.19	0.49	52.45	52.00	53.58	0.48	0.54	1.31
Sprout	10	7.70	7.61	7.37	54.66	54.67	54.65	0.53	0.64	1.19
TaoVA-100x	10	132.32	123.27	121.12	56.44	57.50	56.98	0.49	0.60	1.36
TCP Vegas	10	26.55	26.61	50.14	55.11	55.20	56.48	0.44	0.49	1.13
Verus	10	209.51	144.25	134.99	128.79	139.47	149.62	1.01	1.12	2.57
Indigo	10	173.82	159.85	135.43	54.46	54.92	54.36	0.32	0.48	1.18
Indigo-calib	10	155.54	139.05	138.85	54.07	54.32	54.06	0.27	0.45	1.06
Indigo-delay	6	166.44	154.65	126.85	54.38	54.75	54.35	0.34	0.57	1.30

Run 1: Statistics of TCP BBR

Start at: 2017-09-22 07:26:20

End at: 2017-09-22 07:26:50

Below is generated by plot.py at 2017-09-22 11:40:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 419.13 Mbit/s

95th percentile per-packet one-way delay: 63.693 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 211.84 Mbit/s

95th percentile per-packet one-way delay: 62.894 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 209.21 Mbit/s

95th percentile per-packet one-way delay: 64.057 ms

Loss rate: 0.57%

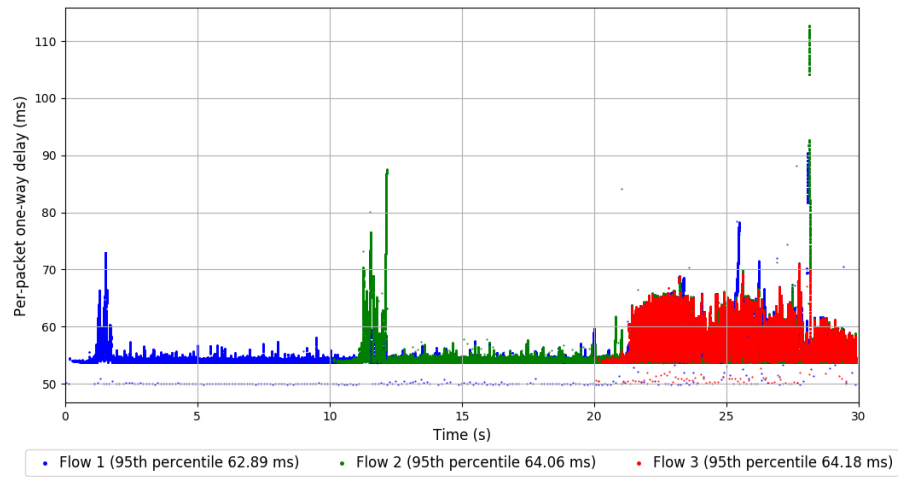
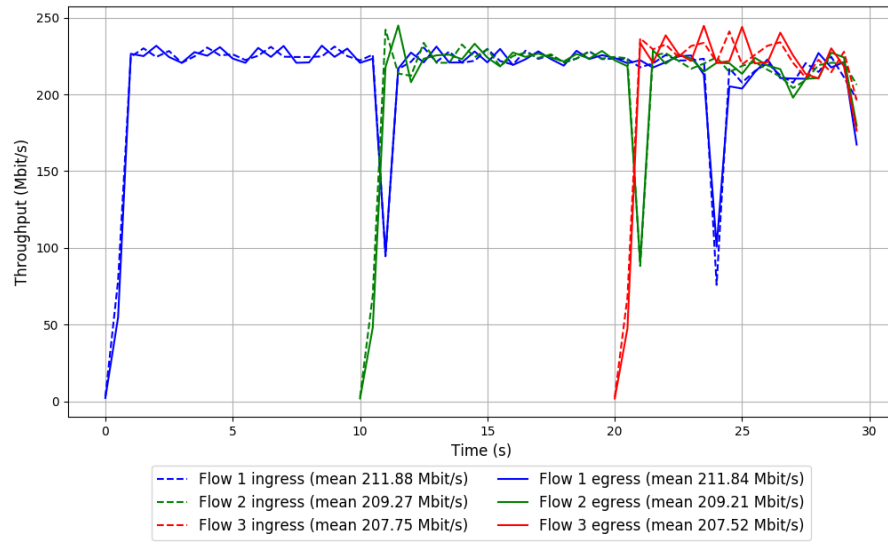
-- Flow 3:

Average throughput: 207.52 Mbit/s

95th percentile per-packet one-way delay: 64.178 ms

Loss rate: 1.16%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-09-22 07:38:43

End at: 2017-09-22 07:39:13

Below is generated by plot.py at 2017-09-22 11:40:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 399.60 Mbit/s

95th percentile per-packet one-way delay: 62.078 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 199.43 Mbit/s

95th percentile per-packet one-way delay: 60.887 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 202.53 Mbit/s

95th percentile per-packet one-way delay: 62.408 ms

Loss rate: 0.57%

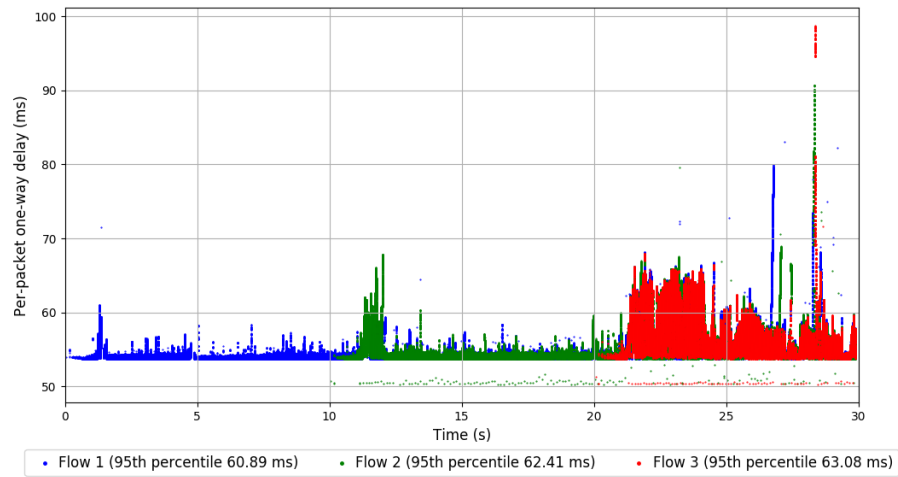
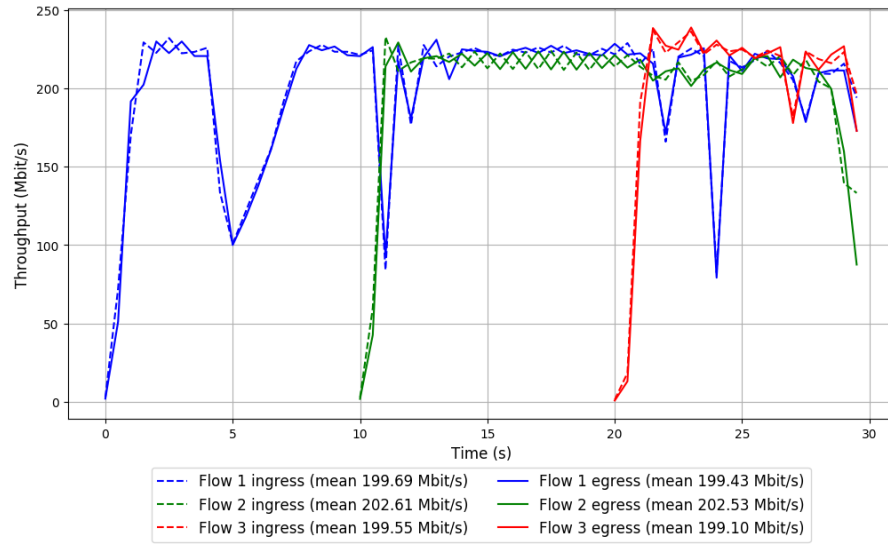
-- Flow 3:

Average throughput: 199.10 Mbit/s

95th percentile per-packet one-way delay: 63.080 ms

Loss rate: 1.18%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-09-22 07:51:18

End at: 2017-09-22 07:51:48

Below is generated by plot.py at 2017-09-22 11:40:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 395.27 Mbit/s

95th percentile per-packet one-way delay: 61.176 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 198.76 Mbit/s

95th percentile per-packet one-way delay: 60.200 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 202.76 Mbit/s

95th percentile per-packet one-way delay: 61.107 ms

Loss rate: 0.59%

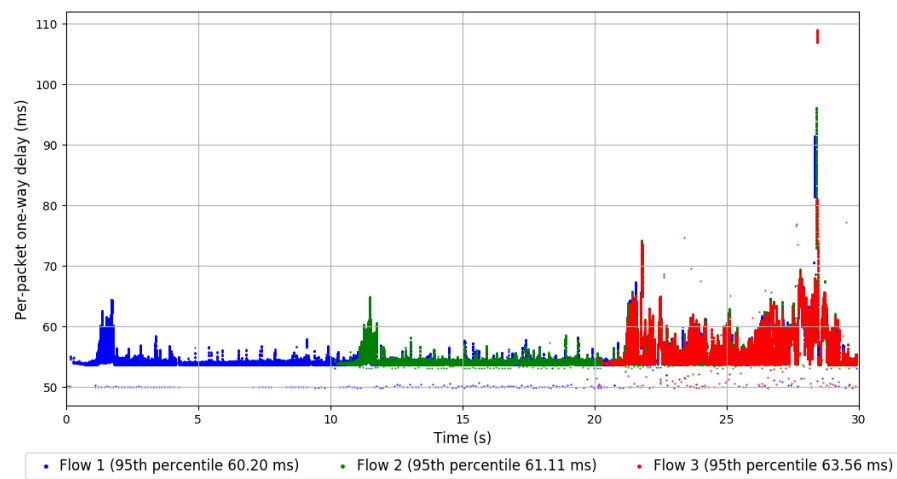
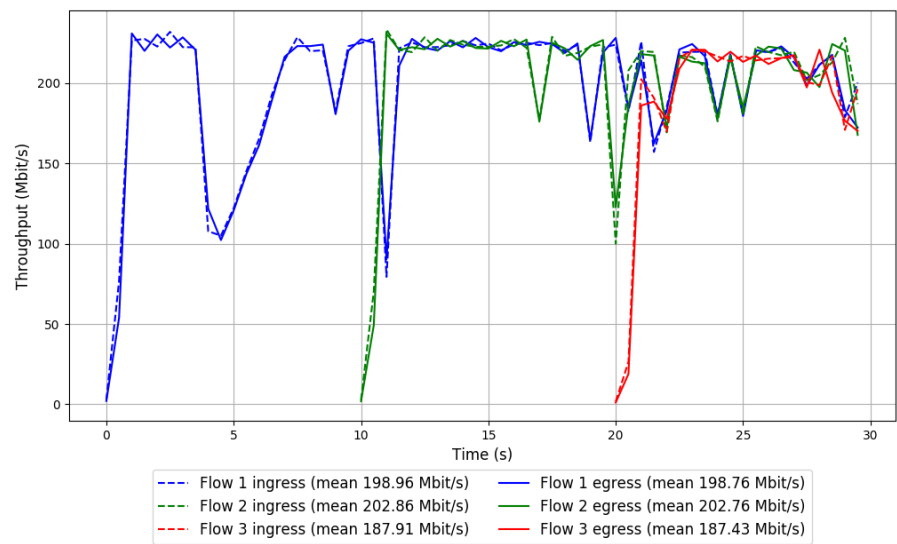
-- Flow 3:

Average throughput: 187.43 Mbit/s

95th percentile per-packet one-way delay: 63.561 ms

Loss rate: 1.31%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-09-22 08:03:50

End at: 2017-09-22 08:04:20

Below is generated by plot.py at 2017-09-22 11:40:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 399.20 Mbit/s

95th percentile per-packet one-way delay: 59.561 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 201.99 Mbit/s

95th percentile per-packet one-way delay: 58.665 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 200.37 Mbit/s

95th percentile per-packet one-way delay: 60.002 ms

Loss rate: 0.63%

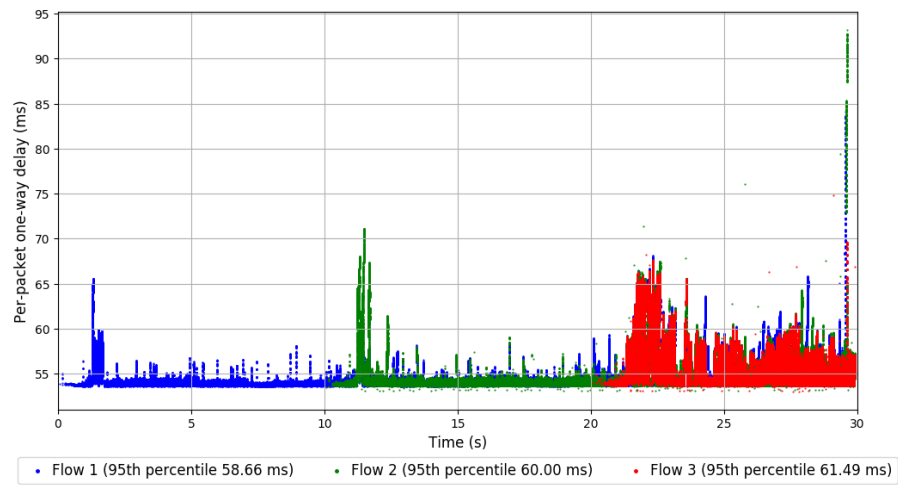
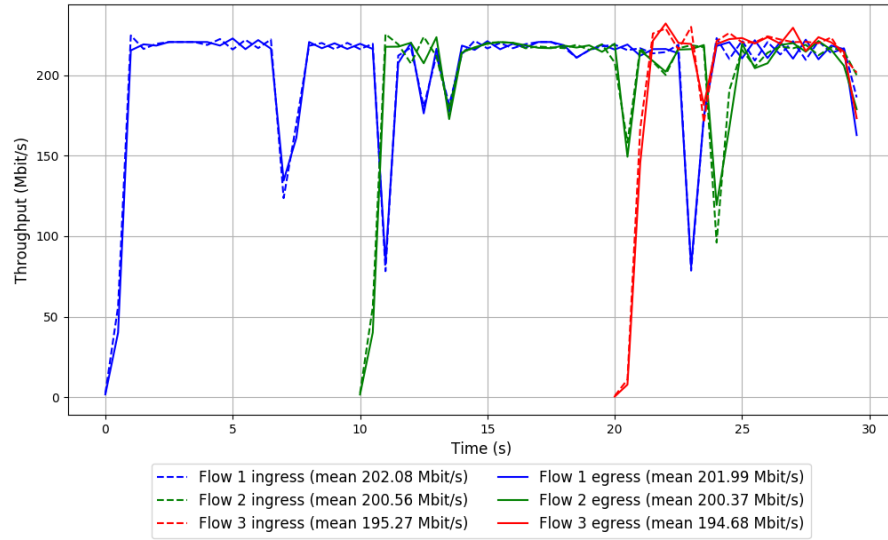
-- Flow 3:

Average throughput: 194.68 Mbit/s

95th percentile per-packet one-way delay: 61.495 ms

Loss rate: 1.29%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-09-22 08:16:02

End at: 2017-09-22 08:16:32

Below is generated by plot.py at 2017-09-22 11:40:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 400.58 Mbit/s

95th percentile per-packet one-way delay: 60.179 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 202.51 Mbit/s

95th percentile per-packet one-way delay: 59.493 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 201.64 Mbit/s

95th percentile per-packet one-way delay: 61.147 ms

Loss rate: 0.62%

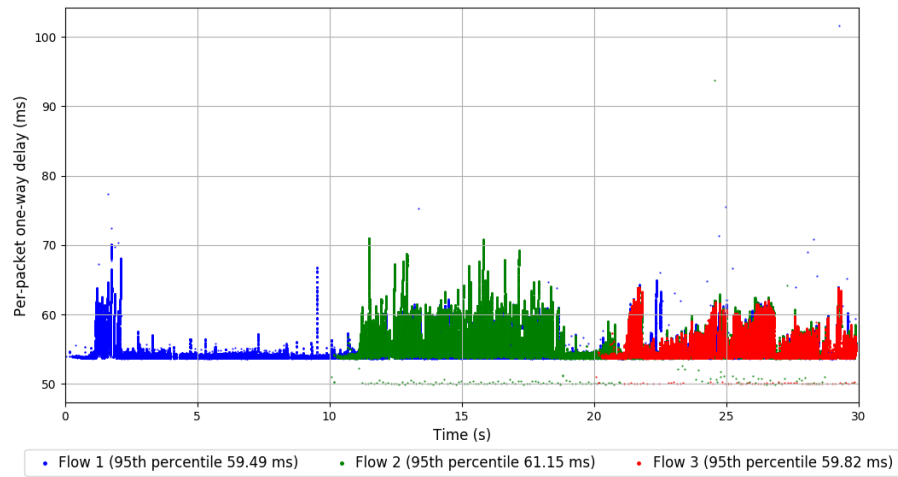
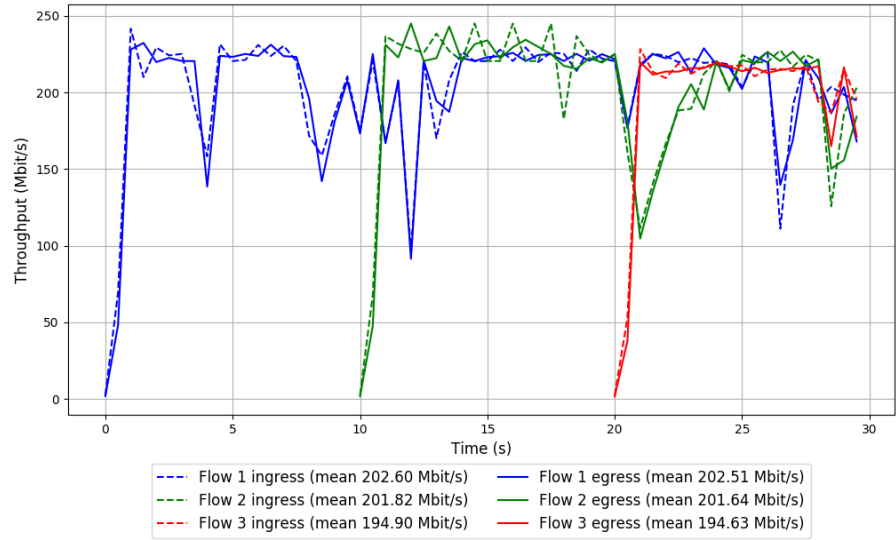
-- Flow 3:

Average throughput: 194.63 Mbit/s

95th percentile per-packet one-way delay: 59.822 ms

Loss rate: 1.19%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-09-22 08:28:17

End at: 2017-09-22 08:28:47

Below is generated by plot.py at 2017-09-22 11:40:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 405.29 Mbit/s

95th percentile per-packet one-way delay: 62.571 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 202.91 Mbit/s

95th percentile per-packet one-way delay: 61.523 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 205.35 Mbit/s

95th percentile per-packet one-way delay: 64.347 ms

Loss rate: 0.58%

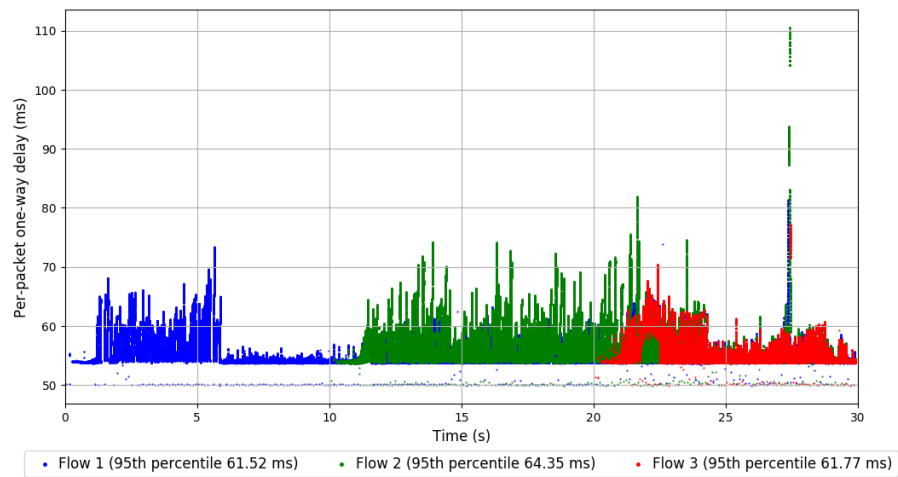
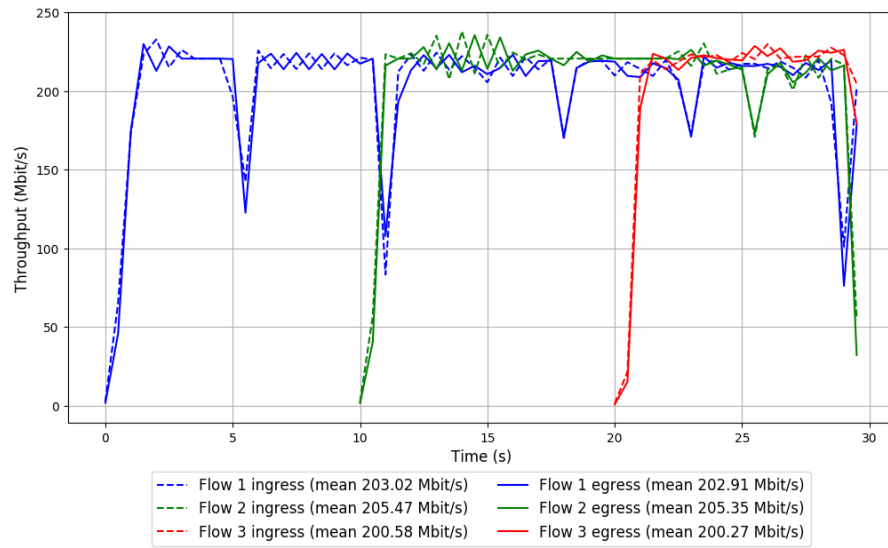
-- Flow 3:

Average throughput: 200.27 Mbit/s

95th percentile per-packet one-way delay: 61.768 ms

Loss rate: 1.22%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-09-22 08:40:49

End at: 2017-09-22 08:41:19

Below is generated by plot.py at 2017-09-22 11:40:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 407.29 Mbit/s

95th percentile per-packet one-way delay: 64.815 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 208.82 Mbit/s

95th percentile per-packet one-way delay: 62.334 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 201.57 Mbit/s

95th percentile per-packet one-way delay: 65.239 ms

Loss rate: 0.57%

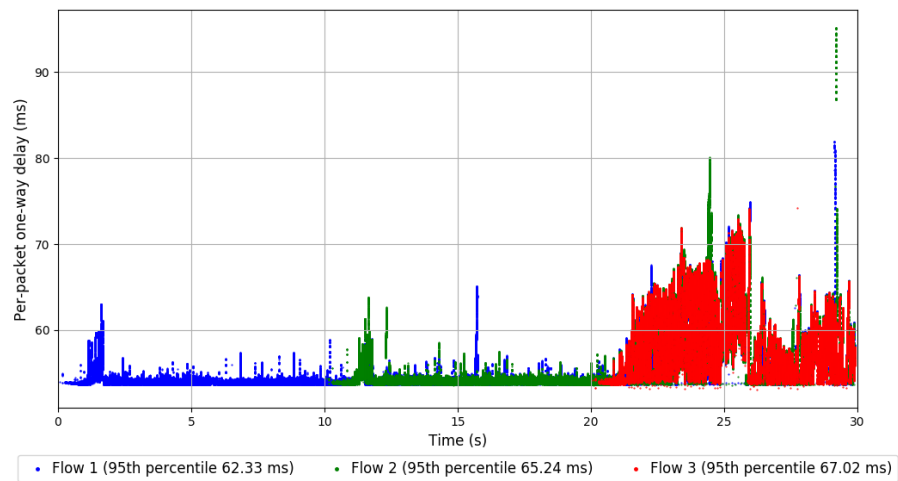
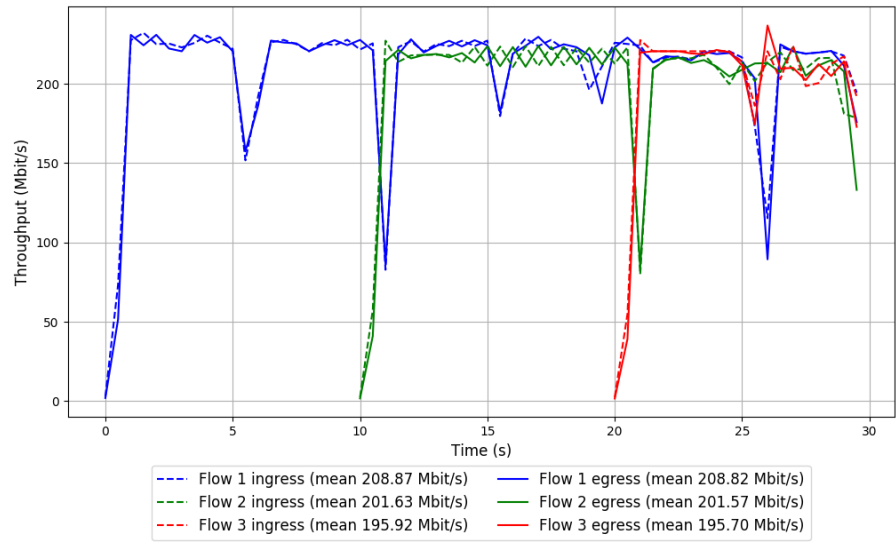
-- Flow 3:

Average throughput: 195.70 Mbit/s

95th percentile per-packet one-way delay: 67.016 ms

Loss rate: 1.20%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-09-22 08:53:24

End at: 2017-09-22 08:53:54

Below is generated by plot.py at 2017-09-22 11:40:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 402.86 Mbit/s

95th percentile per-packet one-way delay: 62.465 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 200.99 Mbit/s

95th percentile per-packet one-way delay: 61.140 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 207.13 Mbit/s

95th percentile per-packet one-way delay: 64.147 ms

Loss rate: 0.64%

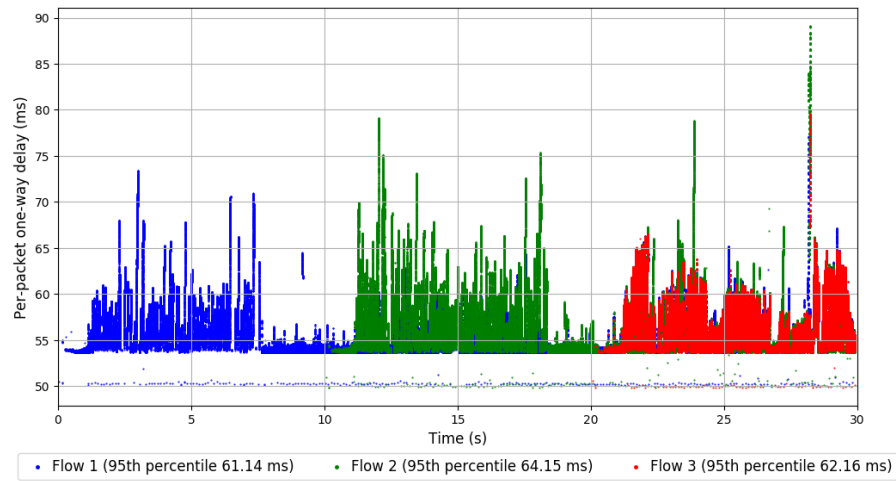
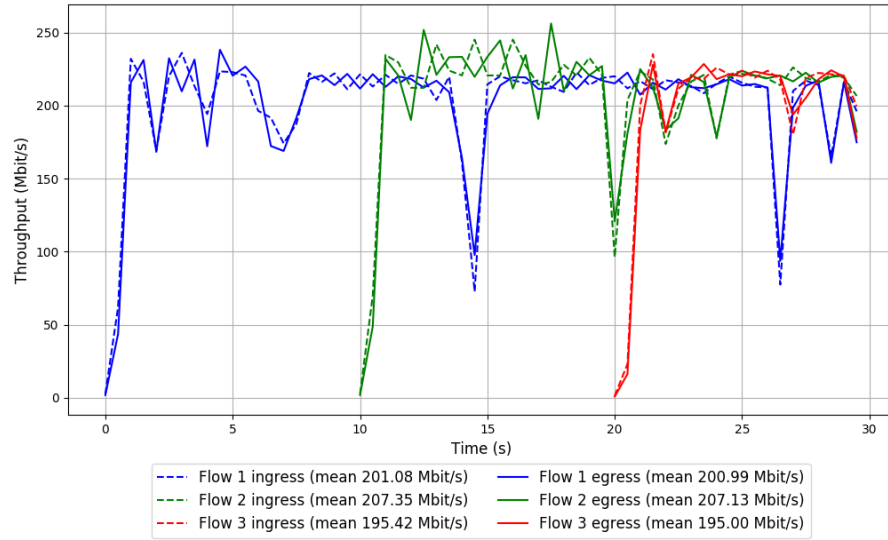
-- Flow 3:

Average throughput: 195.00 Mbit/s

95th percentile per-packet one-way delay: 62.160 ms

Loss rate: 1.25%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-09-22 09:05:43

End at: 2017-09-22 09:06:13

Below is generated by plot.py at 2017-09-22 11:47:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 413.39 Mbit/s

95th percentile per-packet one-way delay: 66.593 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 211.89 Mbit/s

95th percentile per-packet one-way delay: 65.003 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 204.22 Mbit/s

95th percentile per-packet one-way delay: 67.267 ms

Loss rate: 0.56%

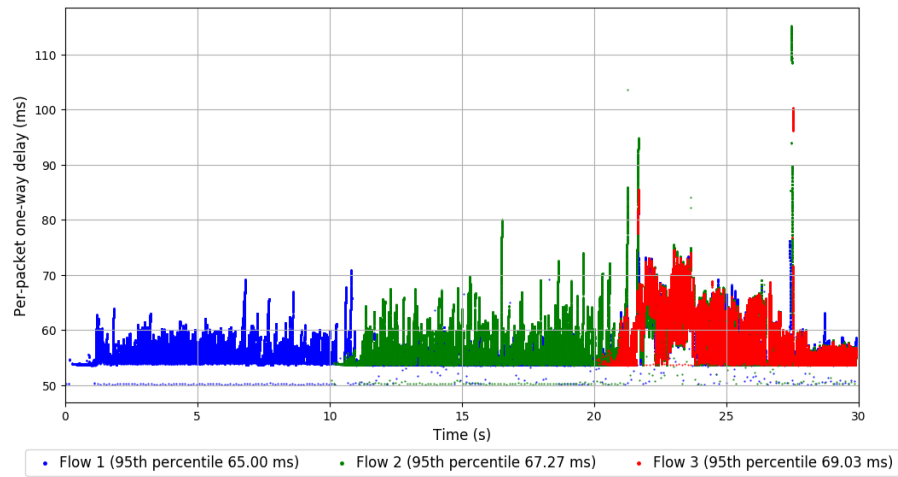
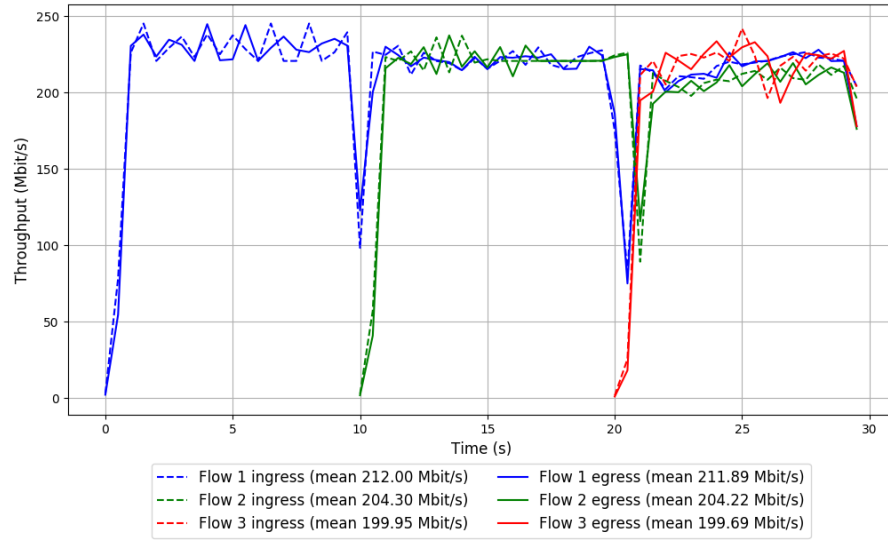
-- Flow 3:

Average throughput: 199.69 Mbit/s

95th percentile per-packet one-way delay: 69.031 ms

Loss rate: 1.22%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-09-22 09:18:07

End at: 2017-09-22 09:18:37

Below is generated by plot.py at 2017-09-22 11:47:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 396.29 Mbit/s

95th percentile per-packet one-way delay: 62.055 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 202.44 Mbit/s

95th percentile per-packet one-way delay: 61.161 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 208.61 Mbit/s

95th percentile per-packet one-way delay: 61.005 ms

Loss rate: 0.58%

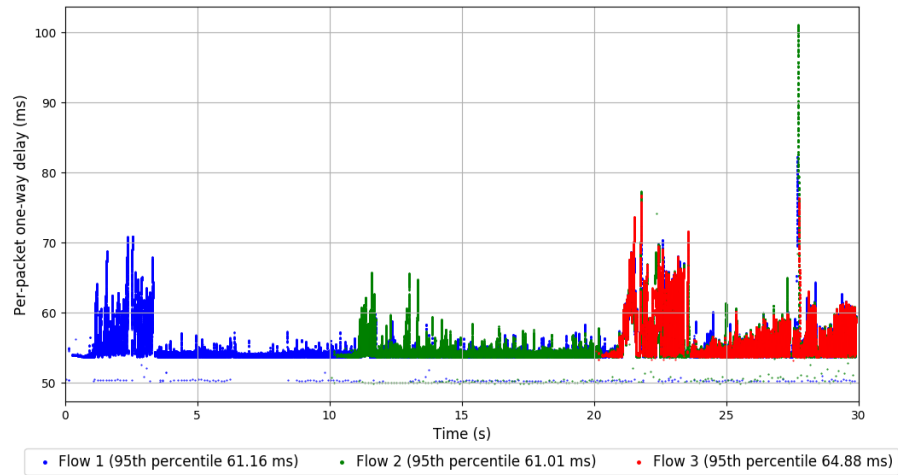
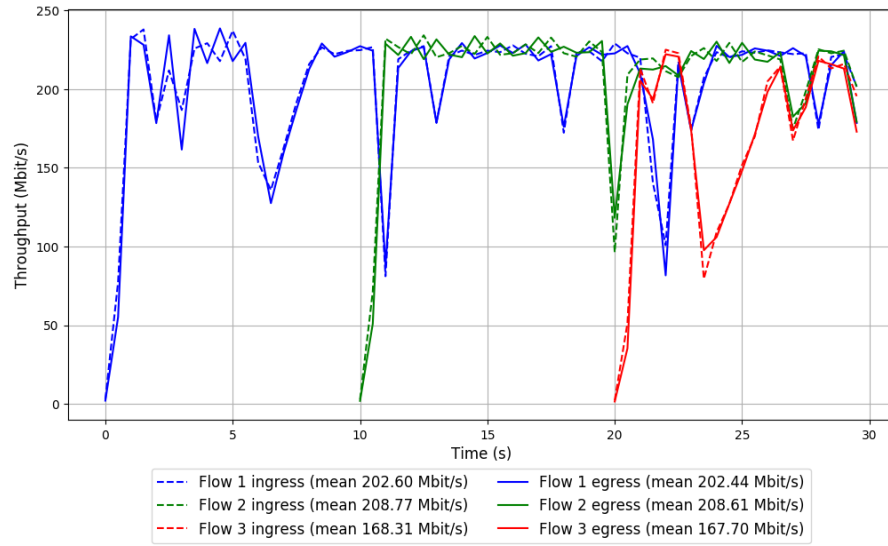
-- Flow 3:

Average throughput: 167.70 Mbit/s

95th percentile per-packet one-way delay: 64.875 ms

Loss rate: 1.44%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-09-22 07:18:22

End at: 2017-09-22 07:18:52

Below is generated by plot.py at 2017-09-22 11:47:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 231.34 Mbit/s

95th percentile per-packet one-way delay: 64.443 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 104.85 Mbit/s

95th percentile per-packet one-way delay: 59.372 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 105.00 Mbit/s

95th percentile per-packet one-way delay: 64.075 ms

Loss rate: 0.46%

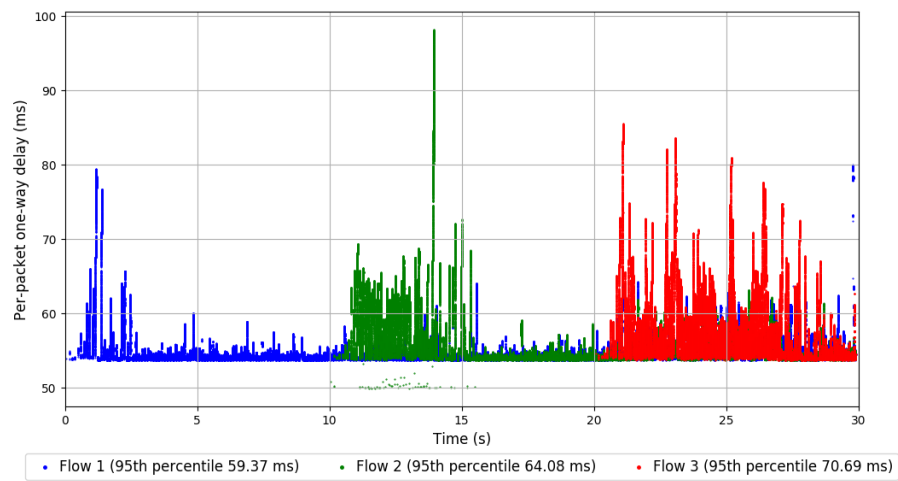
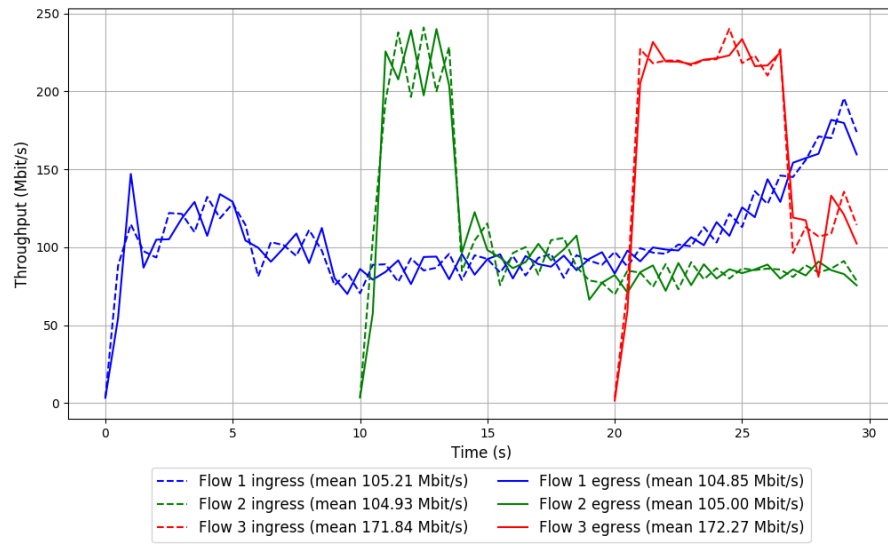
-- Flow 3:

Average throughput: 172.27 Mbit/s

95th percentile per-packet one-way delay: 70.690 ms

Loss rate: 0.83%

Run 1: Report of TCP Cubic — Data Link

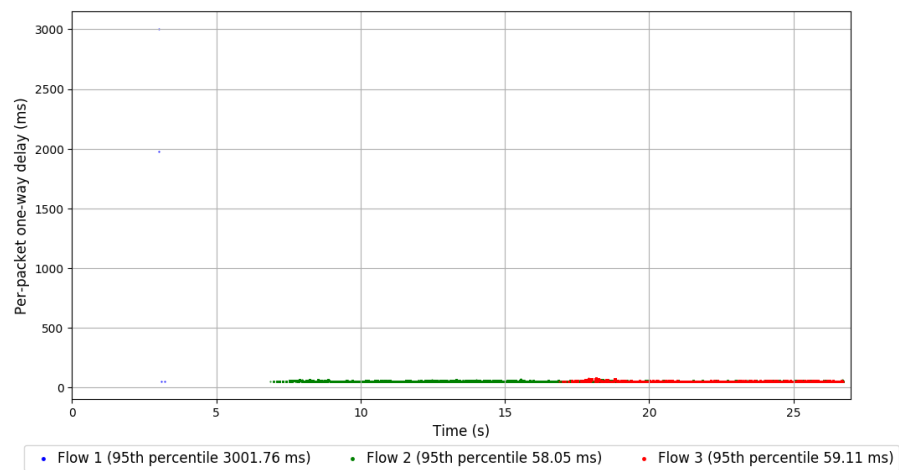
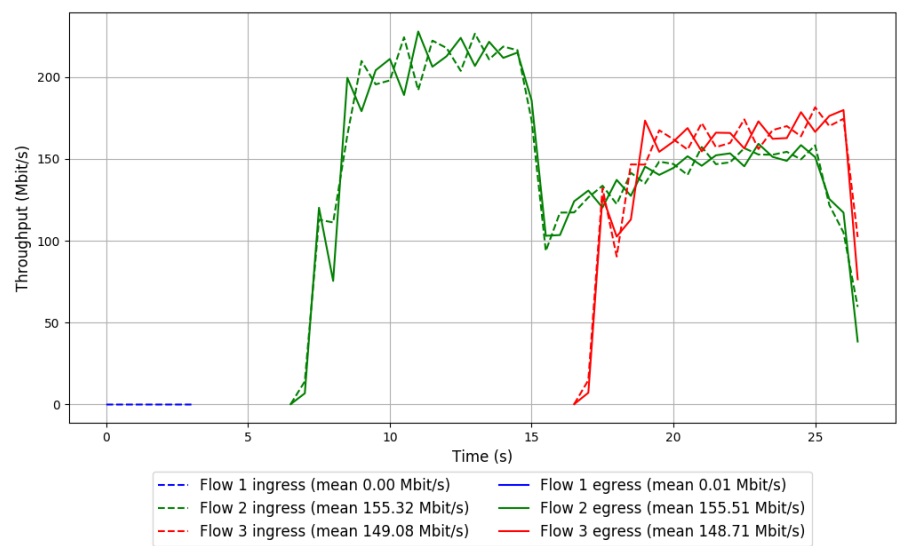


Run 2: Statistics of TCP Cubic

Start at: 2017-09-22 07:31:00

End at: 2017-09-22 07:31:30

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-09-22 07:43:27

End at: 2017-09-22 07:43:57

Below is generated by plot.py at 2017-09-22 11:47:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 133.20 Mbit/s

95th percentile per-packet one-way delay: 63.570 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 11.38 Mbit/s

95th percentile per-packet one-way delay: 2078.892 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 107.06 Mbit/s

95th percentile per-packet one-way delay: 60.509 ms

Loss rate: 0.52%

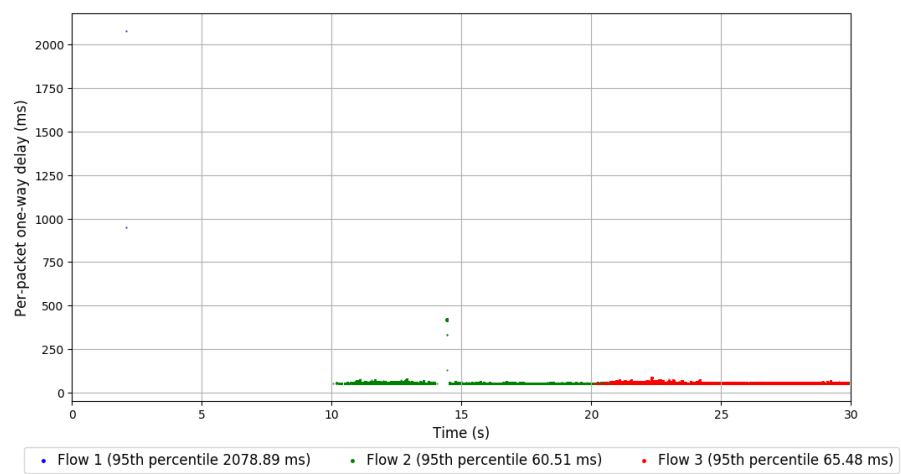
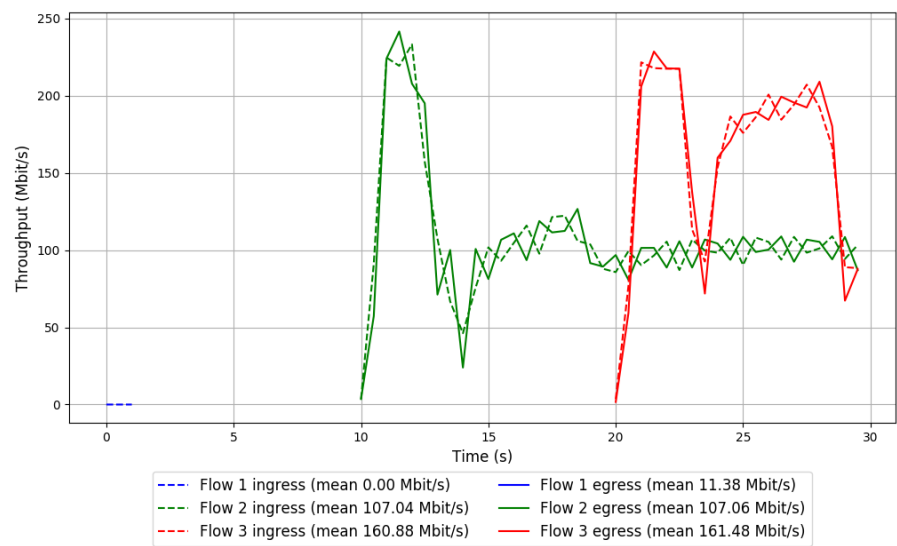
-- Flow 3:

Average throughput: 161.48 Mbit/s

95th percentile per-packet one-way delay: 65.480 ms

Loss rate: 0.71%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-09-22 07:55:46

End at: 2017-09-22 07:56:16

Below is generated by plot.py at 2017-09-22 11:47:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 216.92 Mbit/s

95th percentile per-packet one-way delay: 60.275 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 77.04 Mbit/s

95th percentile per-packet one-way delay: 60.174 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 147.34 Mbit/s

95th percentile per-packet one-way delay: 60.369 ms

Loss rate: 0.42%

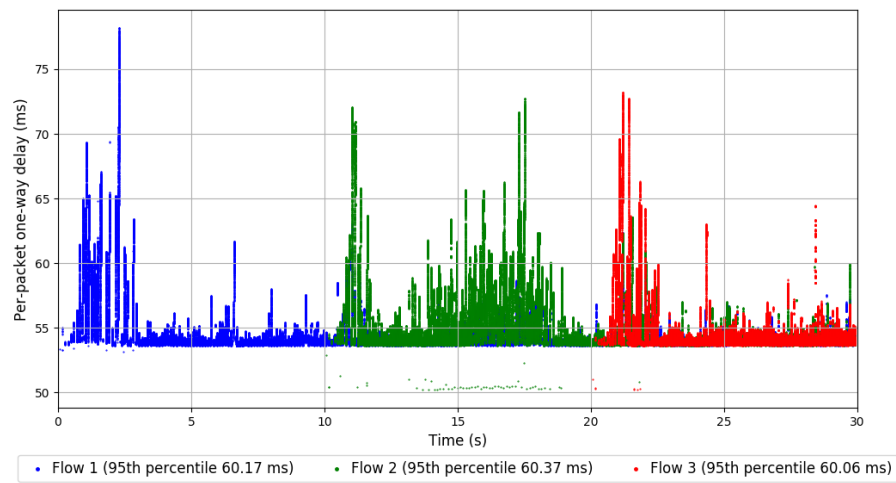
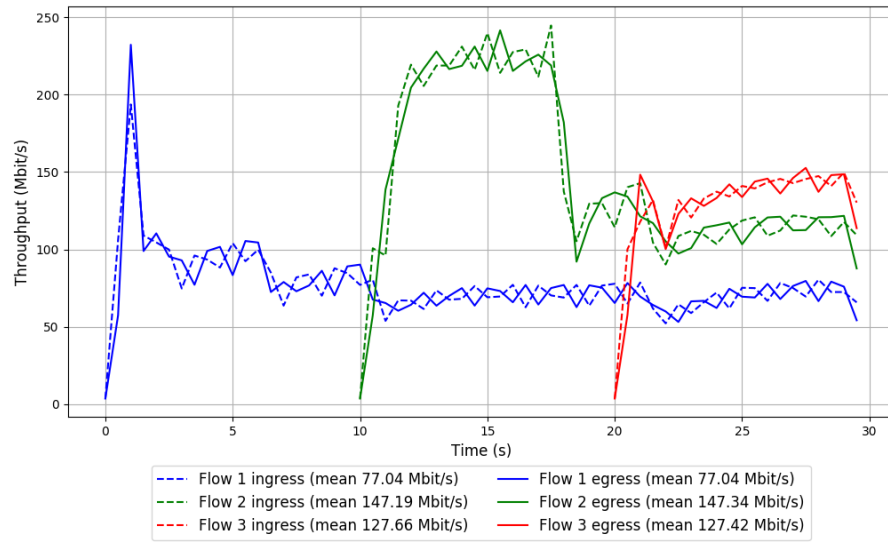
-- Flow 3:

Average throughput: 127.42 Mbit/s

95th percentile per-packet one-way delay: 60.065 ms

Loss rate: 1.23%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-09-22 08:08:06

End at: 2017-09-22 08:08:36

Below is generated by plot.py at 2017-09-22 11:47:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 183.15 Mbit/s

95th percentile per-packet one-way delay: 60.471 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 82.10 Mbit/s

95th percentile per-packet one-way delay: 56.711 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 91.93 Mbit/s

95th percentile per-packet one-way delay: 61.416 ms

Loss rate: 0.49%

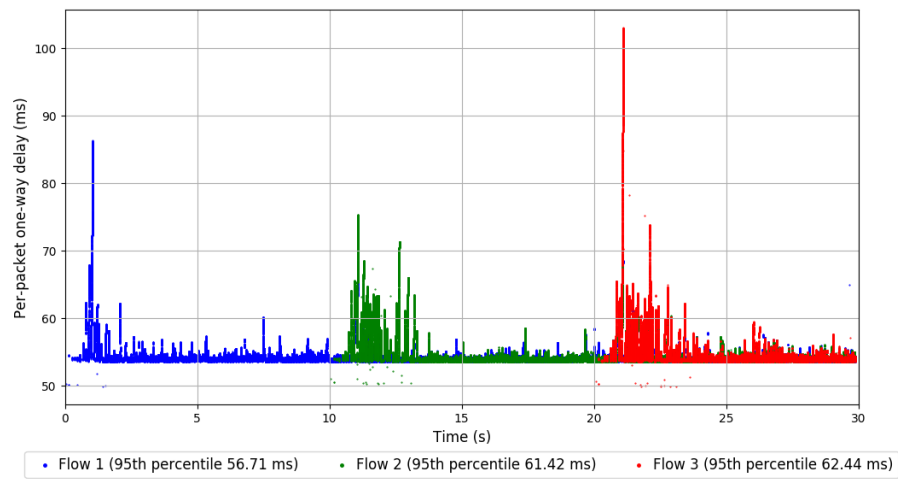
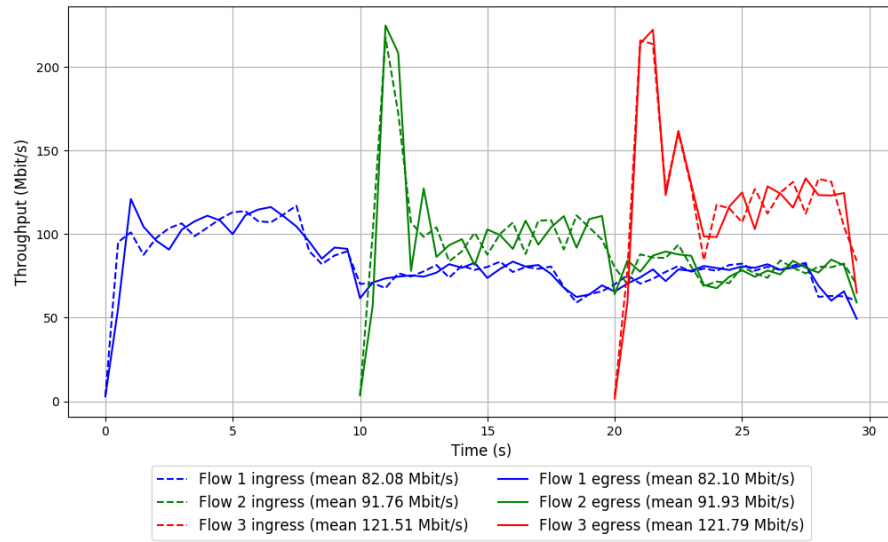
-- Flow 3:

Average throughput: 121.79 Mbit/s

95th percentile per-packet one-way delay: 62.436 ms

Loss rate: 0.84%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-09-22 08:20:30

End at: 2017-09-22 08:21:00

Below is generated by plot.py at 2017-09-22 11:47:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 205.14 Mbit/s

95th percentile per-packet one-way delay: 62.219 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 125.76 Mbit/s

95th percentile per-packet one-way delay: 62.293 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 51.69 Mbit/s

95th percentile per-packet one-way delay: 57.584 ms

Loss rate: 2.28%

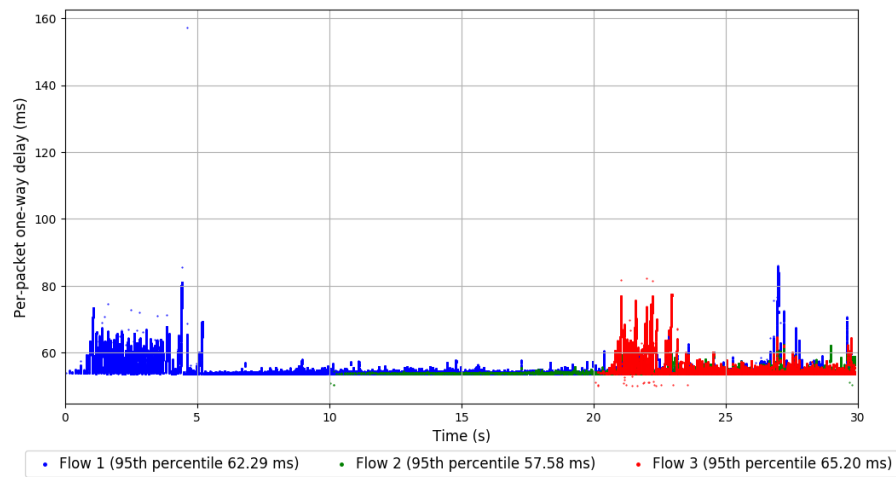
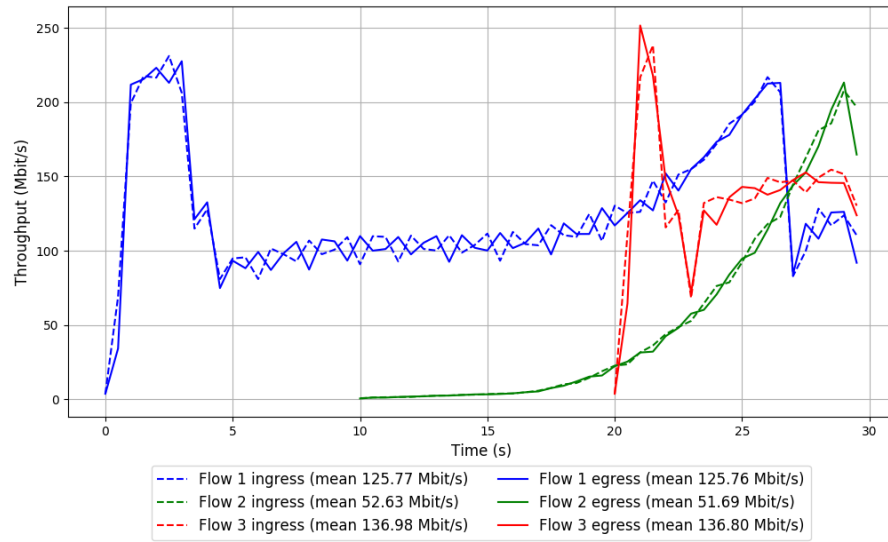
-- Flow 3:

Average throughput: 136.80 Mbit/s

95th percentile per-packet one-way delay: 65.199 ms

Loss rate: 1.15%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-09-22 08:32:57

End at: 2017-09-22 08:33:27

Below is generated by plot.py at 2017-09-22 11:47:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 210.56 Mbit/s

95th percentile per-packet one-way delay: 57.373 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 133.25 Mbit/s

95th percentile per-packet one-way delay: 55.892 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 113.86 Mbit/s

95th percentile per-packet one-way delay: 60.224 ms

Loss rate: 0.44%

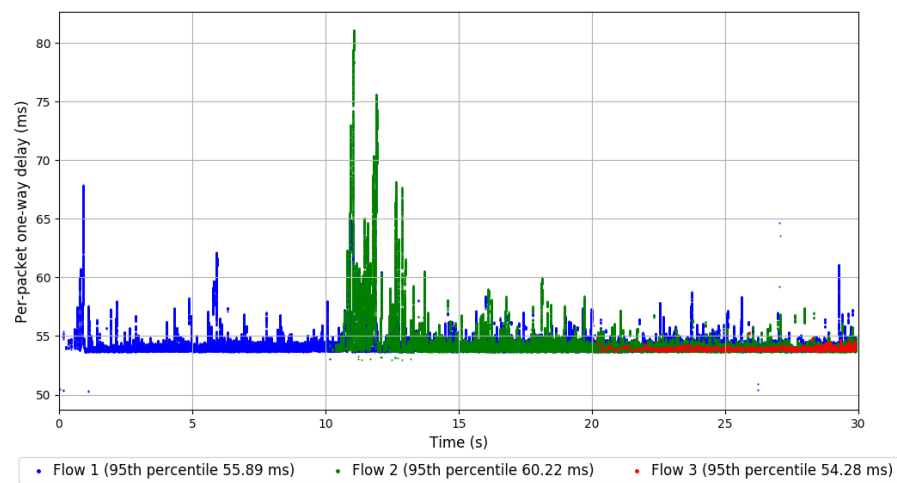
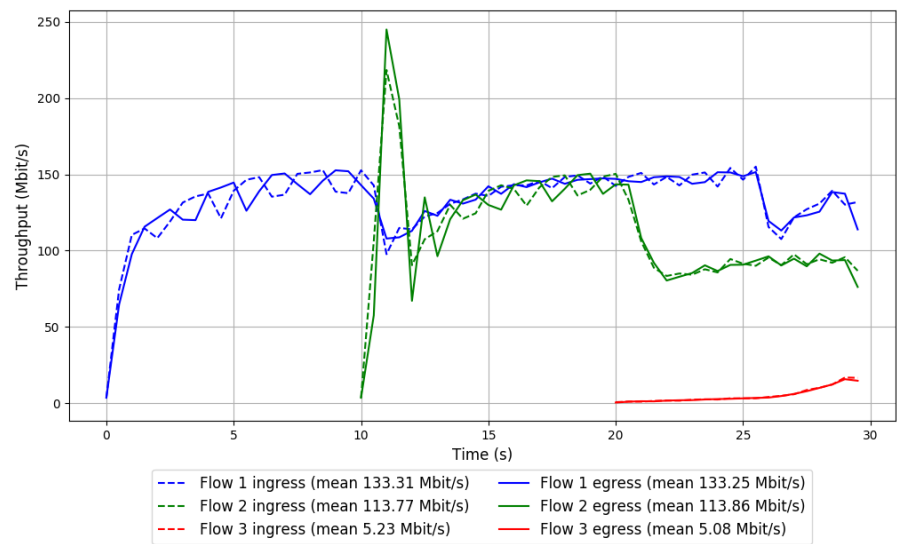
-- Flow 3:

Average throughput: 5.08 Mbit/s

95th percentile per-packet one-way delay: 54.280 ms

Loss rate: 4.25%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-09-22 08:45:25

End at: 2017-09-22 08:45:55

Below is generated by plot.py at 2017-09-22 11:47:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 243.83 Mbit/s

95th percentile per-packet one-way delay: 60.607 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 120.65 Mbit/s

95th percentile per-packet one-way delay: 60.539 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 129.19 Mbit/s

95th percentile per-packet one-way delay: 62.382 ms

Loss rate: 0.56%

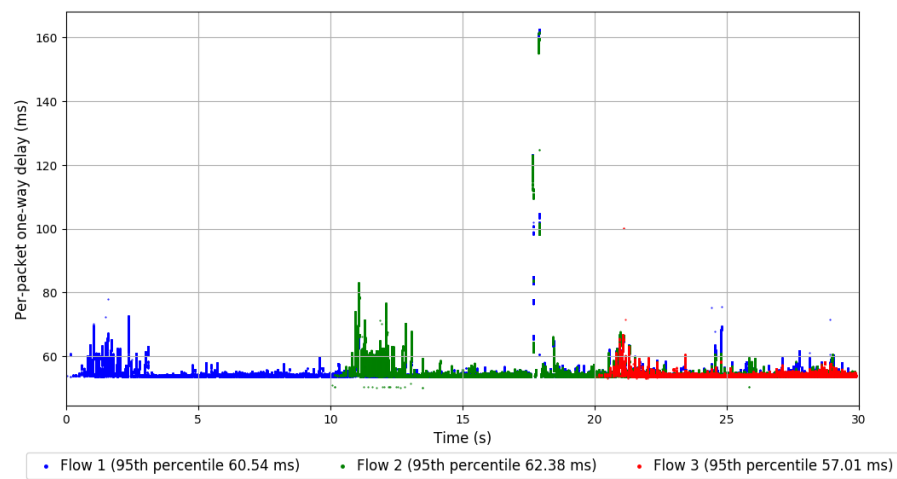
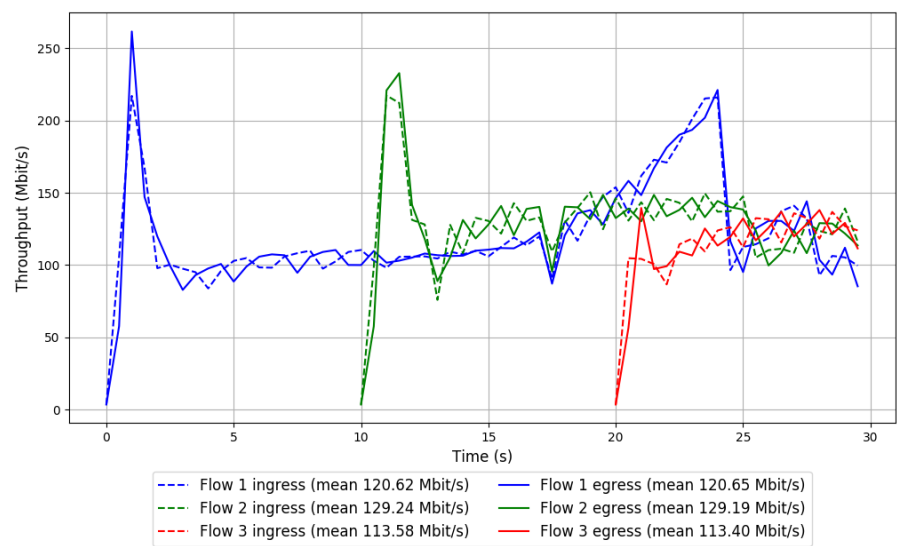
-- Flow 3:

Average throughput: 113.40 Mbit/s

95th percentile per-packet one-way delay: 57.014 ms

Loss rate: 1.23%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-09-22 08:57:57

End at: 2017-09-22 08:58:27

Below is generated by plot.py at 2017-09-22 11:47:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 193.10 Mbit/s

95th percentile per-packet one-way delay: 59.145 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 102.63 Mbit/s

95th percentile per-packet one-way delay: 58.187 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 133.62 Mbit/s

95th percentile per-packet one-way delay: 60.516 ms

Loss rate: 0.59%

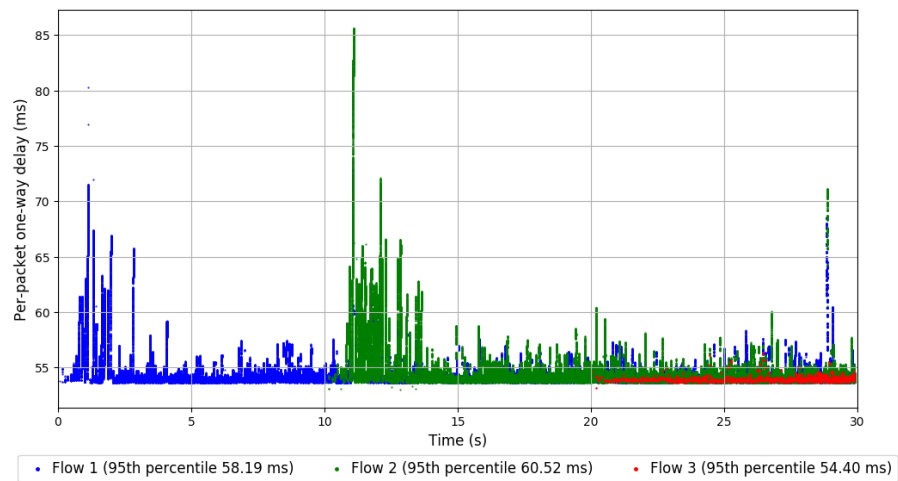
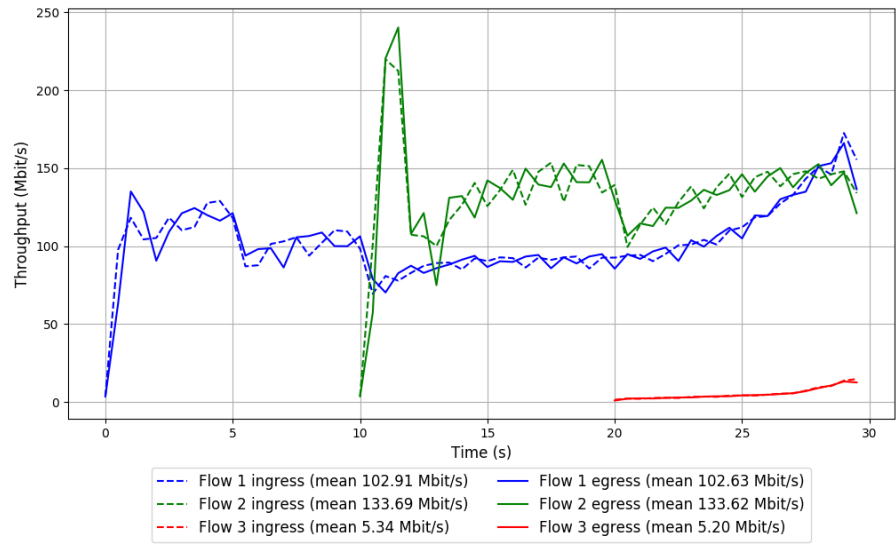
-- Flow 3:

Average throughput: 5.20 Mbit/s

95th percentile per-packet one-way delay: 54.404 ms

Loss rate: 3.65%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-09-22 09:10:19

End at: 2017-09-22 09:10:49

Below is generated by plot.py at 2017-09-22 11:47:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.67 Mbit/s

95th percentile per-packet one-way delay: 60.801 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 9.85 Mbit/s

95th percentile per-packet one-way delay: 1741.975 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 109.00 Mbit/s

95th percentile per-packet one-way delay: 60.804 ms

Loss rate: 0.65%

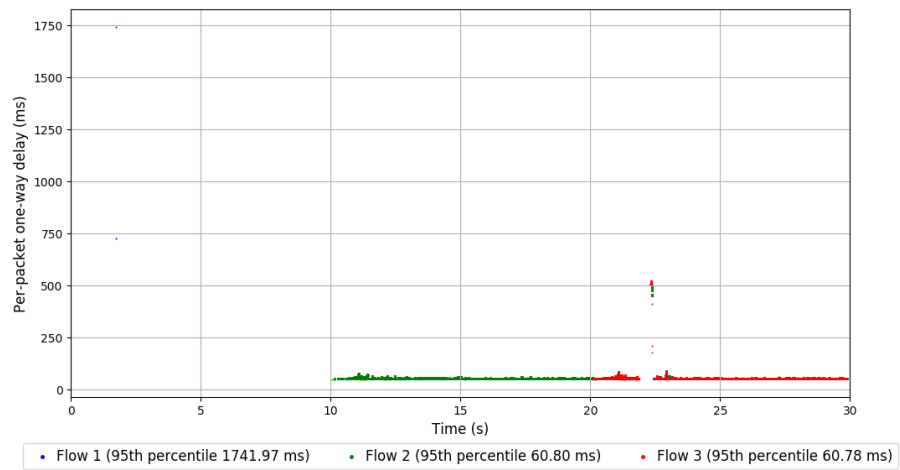
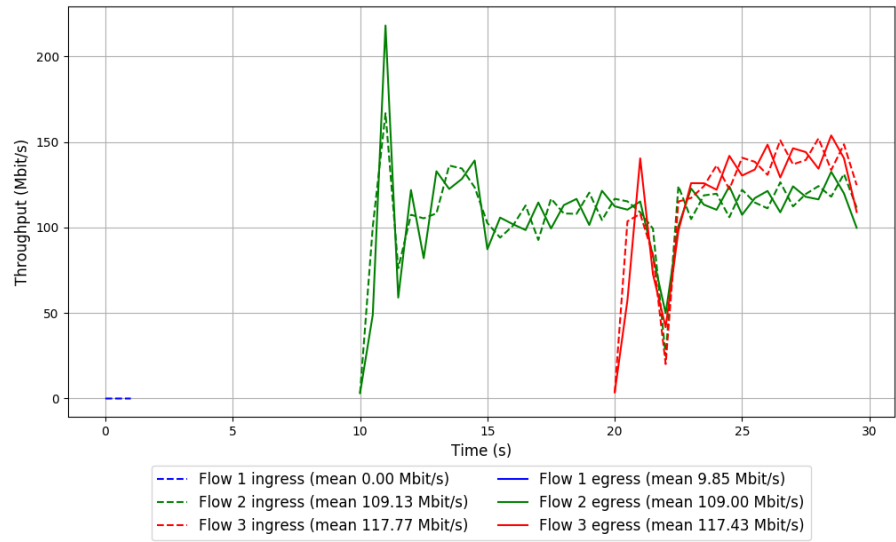
-- Flow 3:

Average throughput: 117.43 Mbit/s

95th percentile per-packet one-way delay: 60.777 ms

Loss rate: 1.34%

Run 10: Report of TCP Cubic — Data Link

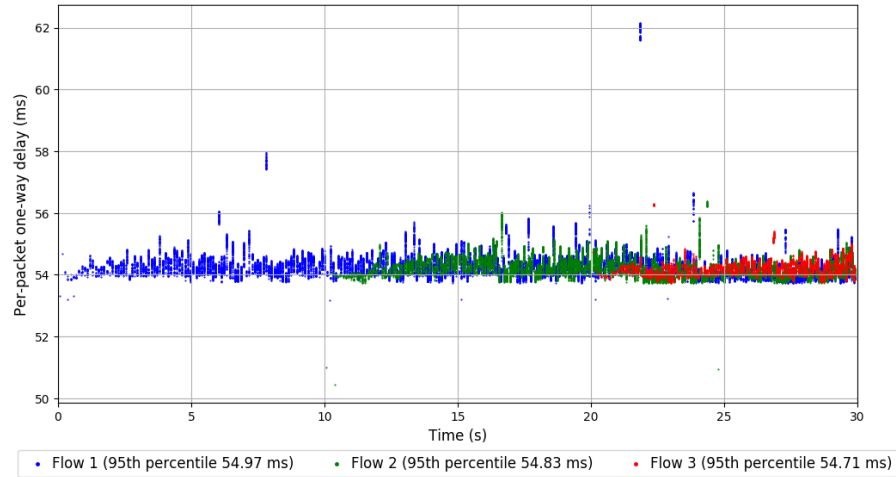
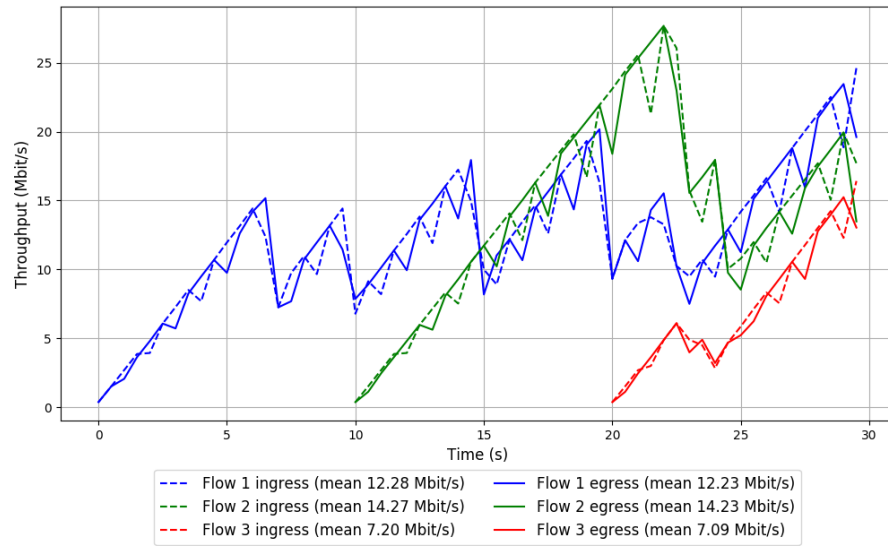


```
Run 1: Statistics of LEDBAT

Start at: 2017-09-22 07:17:01
End at: 2017-09-22 07:17:31

# Below is generated by plot.py at 2017-09-22 11:47:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.01 Mbit/s
95th percentile per-packet one-way delay: 54.868 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 12.23 Mbit/s
95th percentile per-packet one-way delay: 54.969 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 14.23 Mbit/s
95th percentile per-packet one-way delay: 54.834 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 7.09 Mbit/s
95th percentile per-packet one-way delay: 54.713 ms
Loss rate: 2.47%
```


Run 1: Report of LEDBAT — Data Link

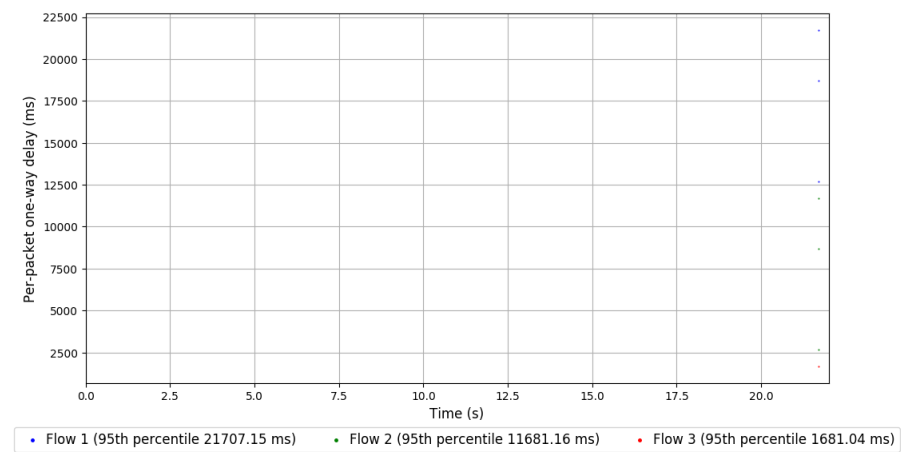
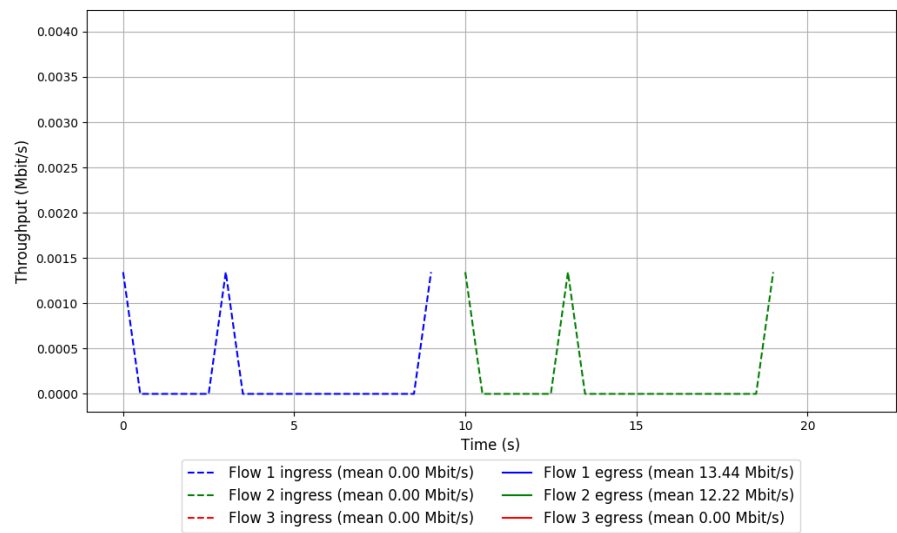


Run 2: Statistics of LEDBAT

Start at: 2017-09-22 07:29:41

End at: 2017-09-22 07:30:11

Run 2: Report of LEDBAT — Data Link

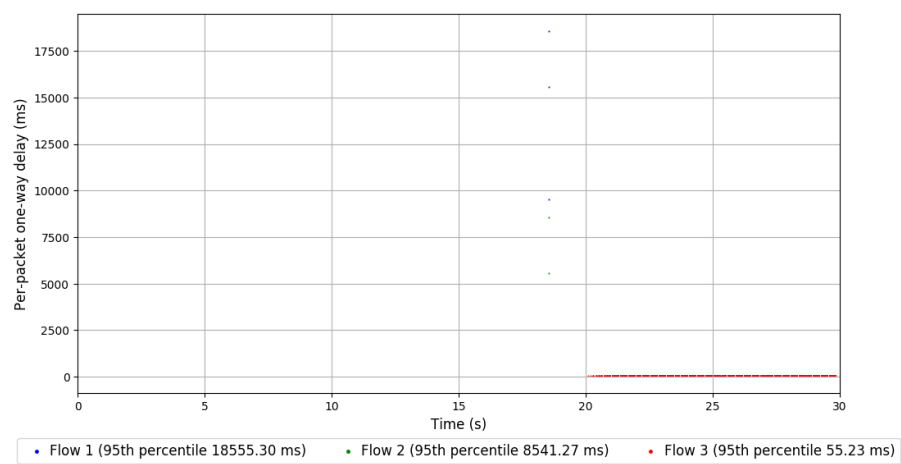
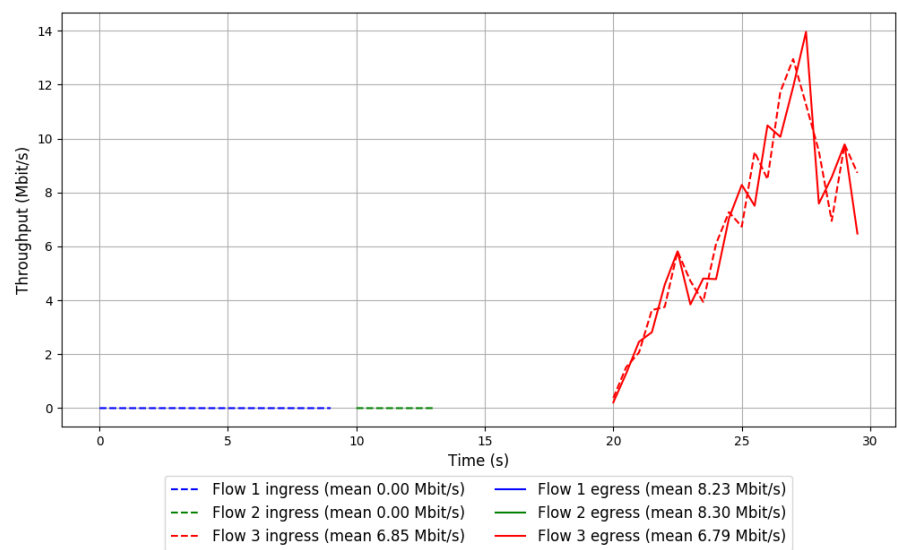


Run 3: Statistics of LEDBAT

Start at: 2017-09-22 07:42:07

End at: 2017-09-22 07:42:37

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-09-22 07:54:25

End at: 2017-09-22 07:54:55

Below is generated by plot.py at 2017-09-22 11:47:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.40 Mbit/s

95th percentile per-packet one-way delay: 55.606 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 12.78 Mbit/s

95th percentile per-packet one-way delay: 55.661 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 11.93 Mbit/s

95th percentile per-packet one-way delay: 55.517 ms

Loss rate: 0.90%

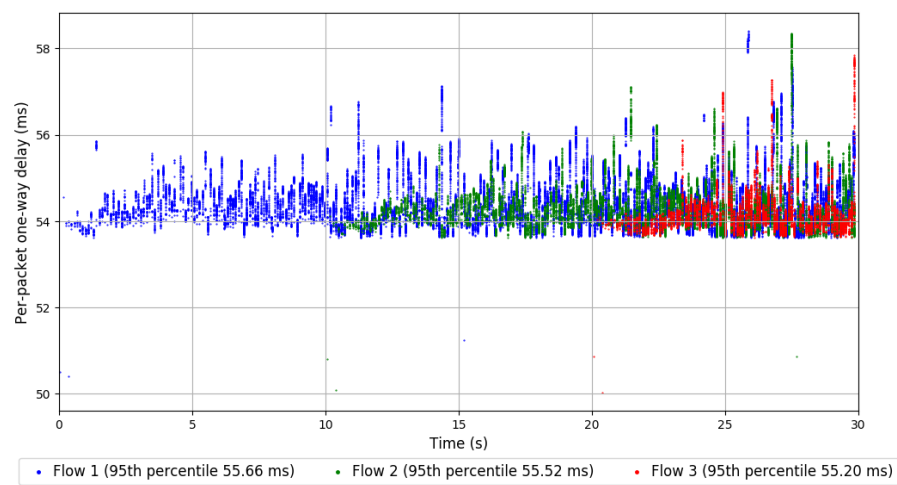
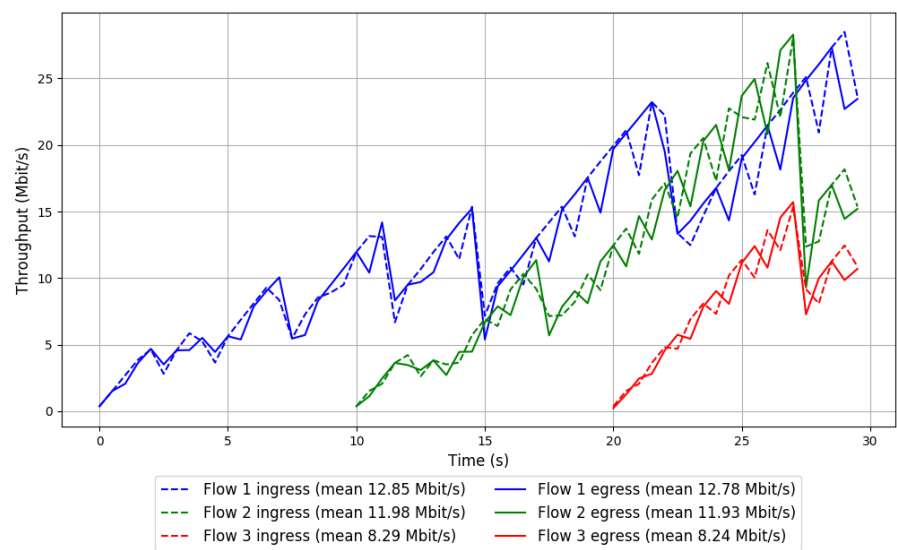
-- Flow 3:

Average throughput: 8.24 Mbit/s

95th percentile per-packet one-way delay: 55.198 ms

Loss rate: 1.70%

Run 4: Report of LEDBAT — Data Link

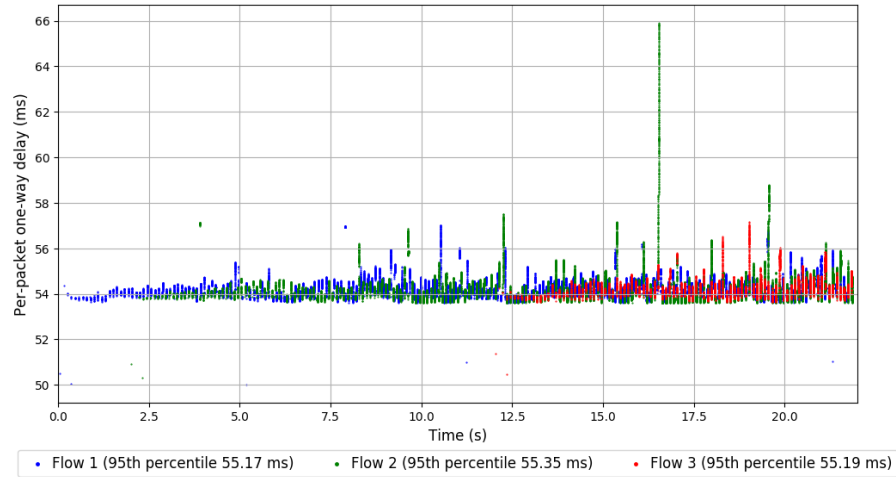
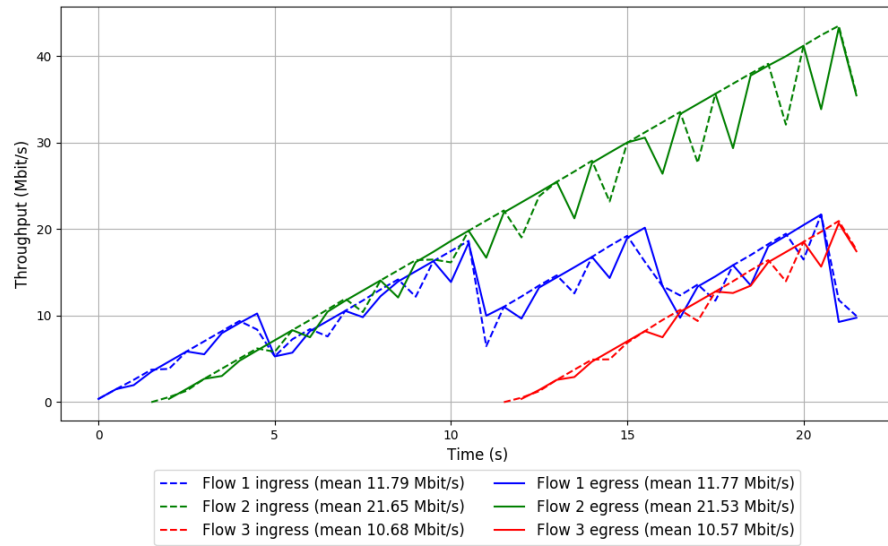


Run 5: Statistics of LEDBAT

Start at: 2017-09-22 08:06:45

End at: 2017-09-22 08:07:15

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-09-22 08:19:09

End at: 2017-09-22 08:19:39

Below is generated by plot.py at 2017-09-22 11:47:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.13 Mbit/s

95th percentile per-packet one-way delay: 55.122 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 9.62 Mbit/s

95th percentile per-packet one-way delay: 55.159 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 12.61 Mbit/s

95th percentile per-packet one-way delay: 55.093 ms

Loss rate: 0.76%

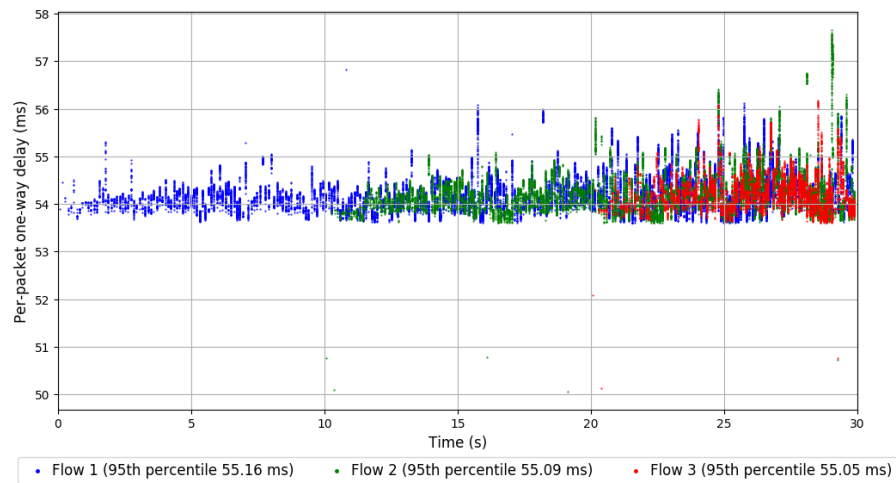
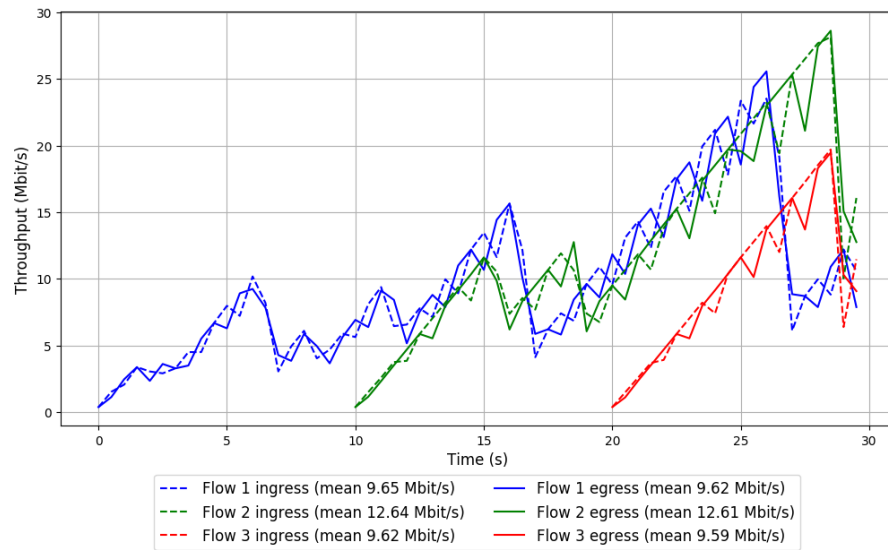
-- Flow 3:

Average throughput: 9.59 Mbit/s

95th percentile per-packet one-way delay: 55.048 ms

Loss rate: 1.32%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-09-22 08:31:36

End at: 2017-09-22 08:32:06

Below is generated by plot.py at 2017-09-22 11:47:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 28.17 Mbit/s

95th percentile per-packet one-way delay: 55.986 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 11.11 Mbit/s

95th percentile per-packet one-way delay: 55.777 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 21.27 Mbit/s

95th percentile per-packet one-way delay: 56.208 ms

Loss rate: 1.05%

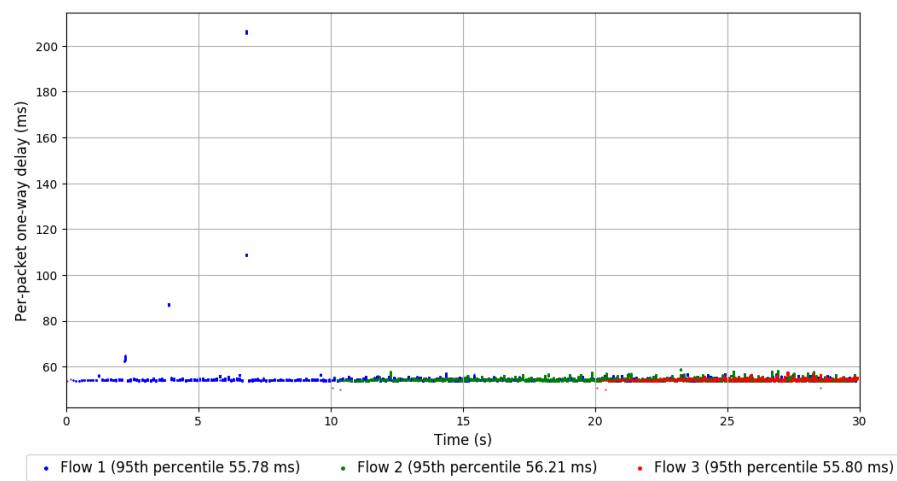
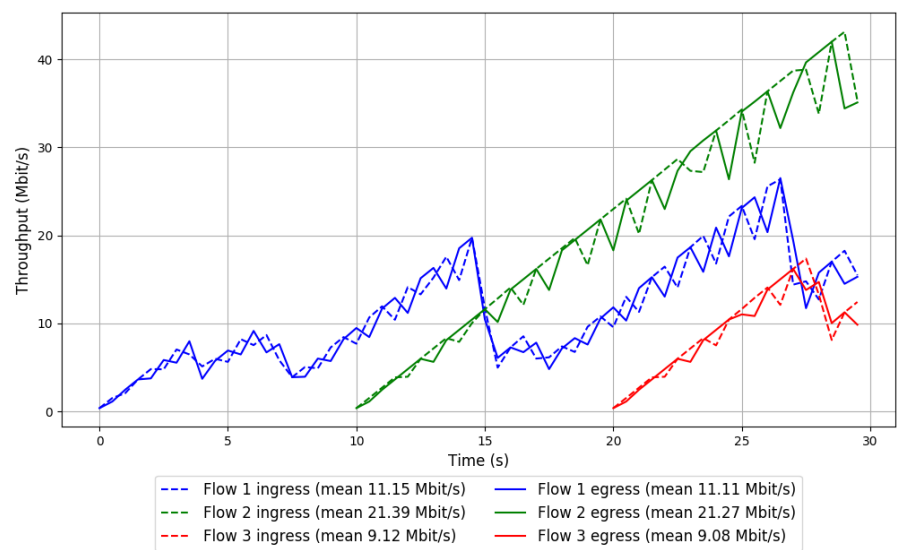
-- Flow 3:

Average throughput: 9.08 Mbit/s

95th percentile per-packet one-way delay: 55.803 ms

Loss rate: 1.54%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-09-22 08:44:01

End at: 2017-09-22 08:44:31

Below is generated by plot.py at 2017-09-22 11:47:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.41 Mbit/s

95th percentile per-packet one-way delay: 55.875 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 30.28 Mbit/s

95th percentile per-packet one-way delay: 56.276 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 20.50 Mbit/s

95th percentile per-packet one-way delay: 55.675 ms

Loss rate: 1.08%

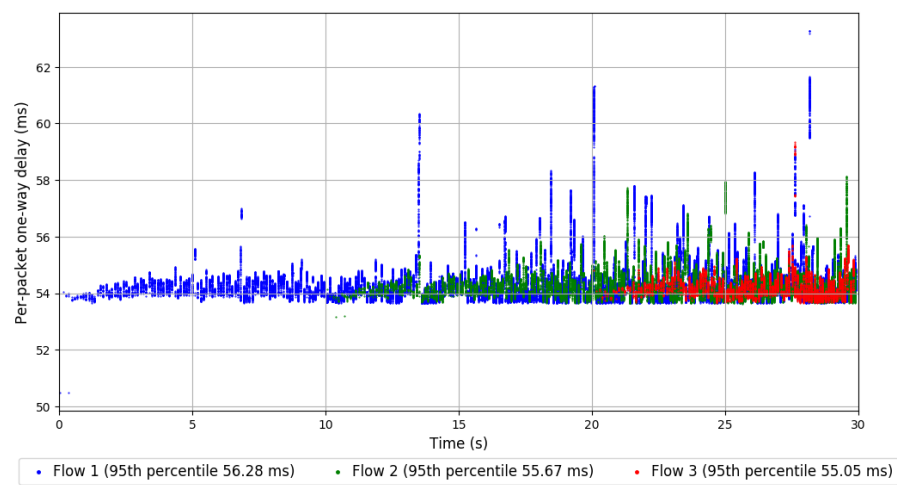
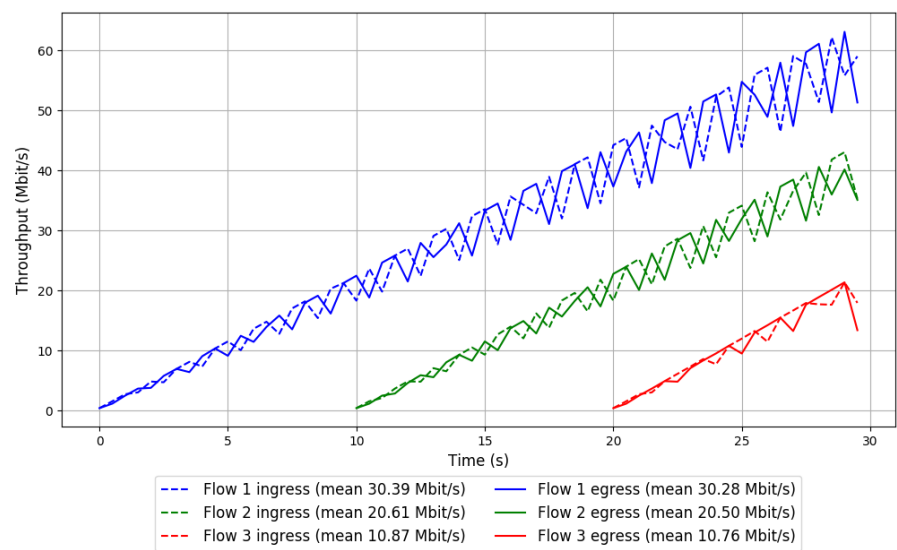
-- Flow 3:

Average throughput: 10.76 Mbit/s

95th percentile per-packet one-way delay: 55.051 ms

Loss rate: 2.13%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-09-22 08:56:34

End at: 2017-09-22 08:57:04

Below is generated by plot.py at 2017-09-22 11:47:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.77 Mbit/s

95th percentile per-packet one-way delay: 55.917 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 31.95 Mbit/s

95th percentile per-packet one-way delay: 56.029 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 20.53 Mbit/s

95th percentile per-packet one-way delay: 55.852 ms

Loss rate: 1.08%

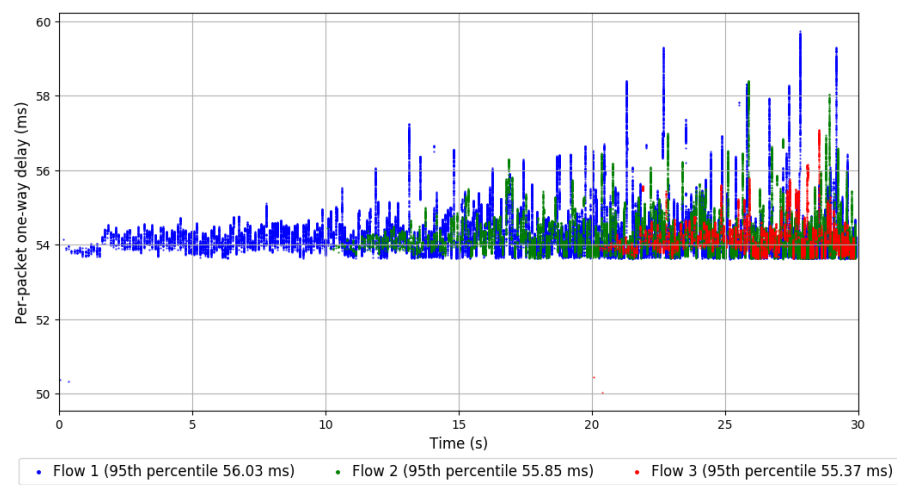
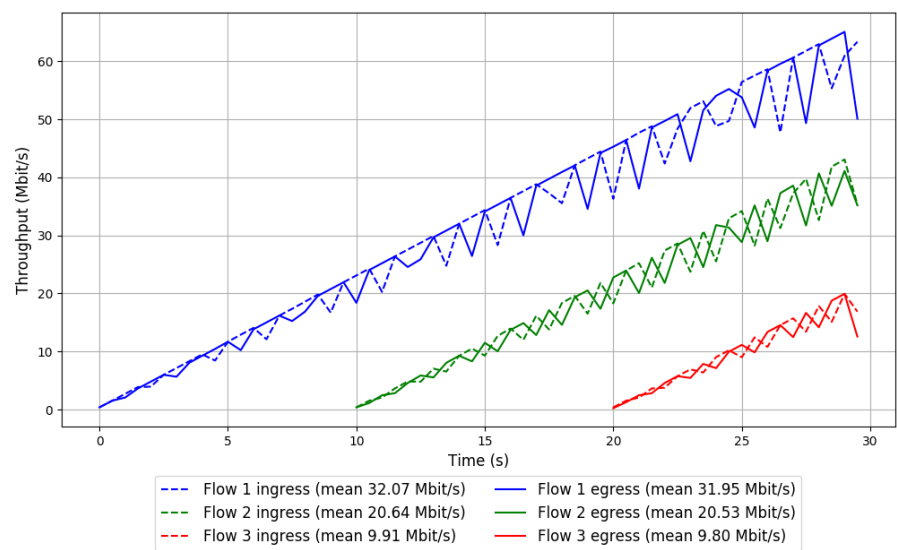
-- Flow 3:

Average throughput: 9.80 Mbit/s

95th percentile per-packet one-way delay: 55.367 ms

Loss rate: 2.20%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-09-22 09:08:58

End at: 2017-09-22 09:09:28

Below is generated by plot.py at 2017-09-22 11:47:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.34 Mbit/s

95th percentile per-packet one-way delay: 55.185 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 10.29 Mbit/s

95th percentile per-packet one-way delay: 55.211 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 13.97 Mbit/s

95th percentile per-packet one-way delay: 55.131 ms

Loss rate: 0.80%

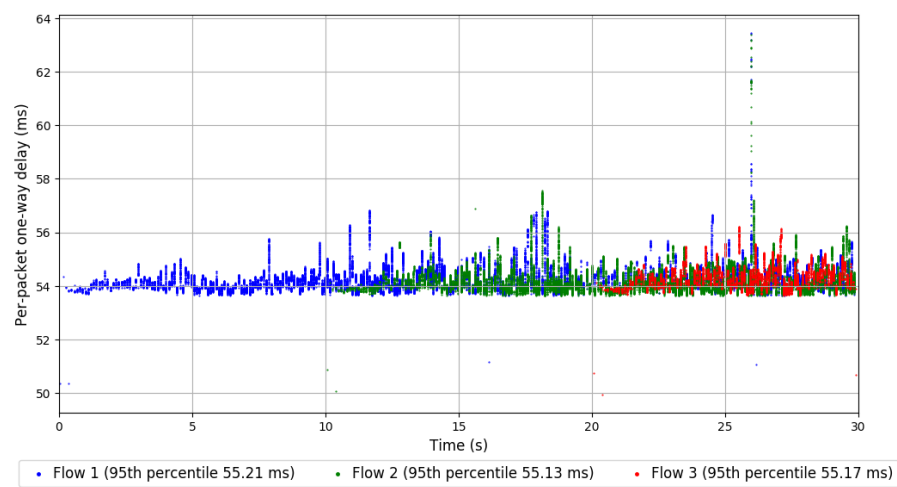
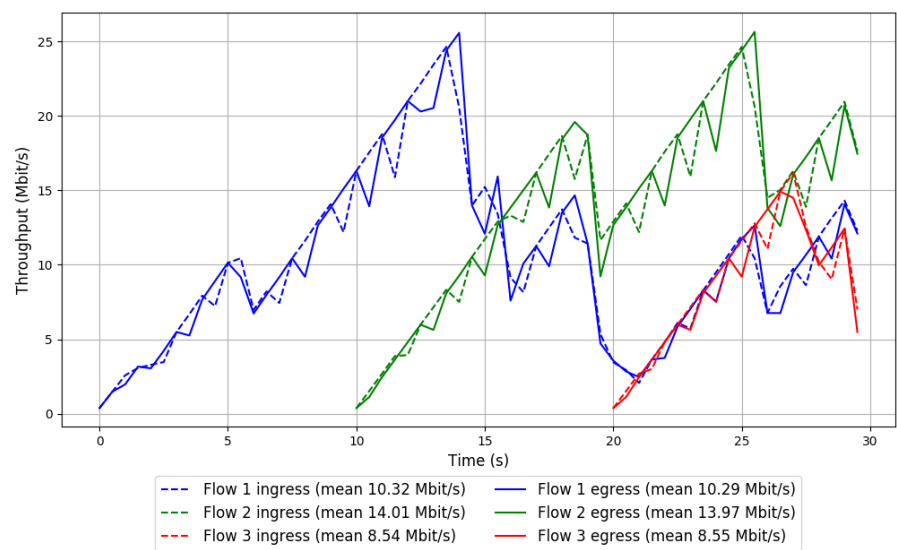
-- Flow 3:

Average throughput: 8.55 Mbit/s

95th percentile per-packet one-way delay: 55.168 ms

Loss rate: 0.90%

Run 10: Report of LEDBAT — Data Link

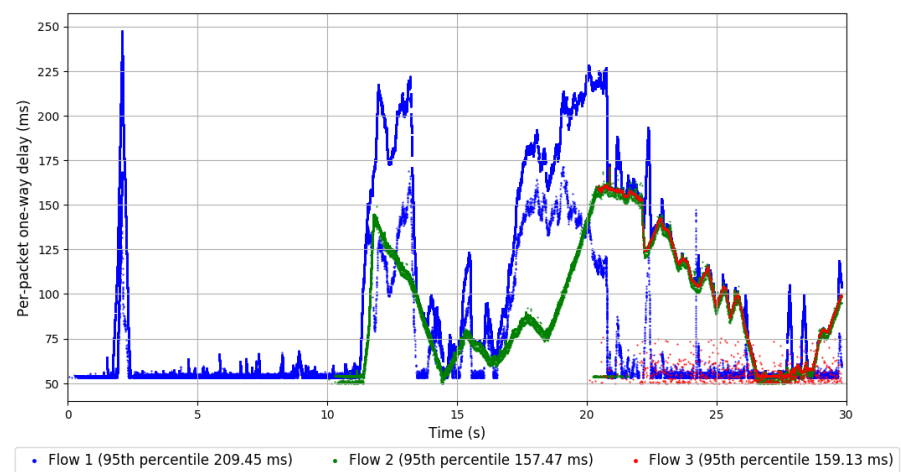
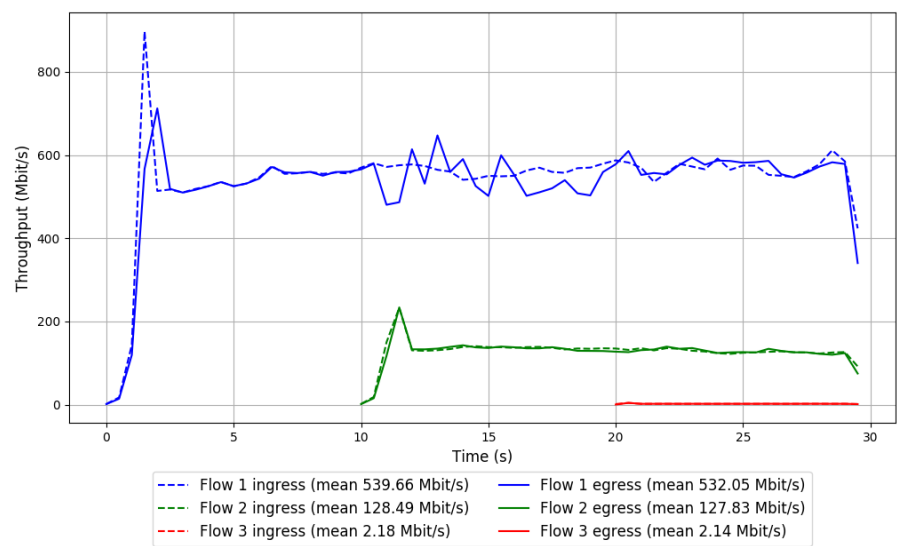


```
Run 1: Statistics of PCC

Start at: 2017-09-22 07:24:34
End at: 2017-09-22 07:25:04

# Below is generated by plot.py at 2017-09-22 11:56:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 617.56 Mbit/s
95th percentile per-packet one-way delay: 207.488 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 532.05 Mbit/s
95th percentile per-packet one-way delay: 209.447 ms
Loss rate: 1.76%
-- Flow 2:
Average throughput: 127.83 Mbit/s
95th percentile per-packet one-way delay: 157.473 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 159.130 ms
Loss rate: 2.55%
```

Run 1: Report of PCC — Data Link

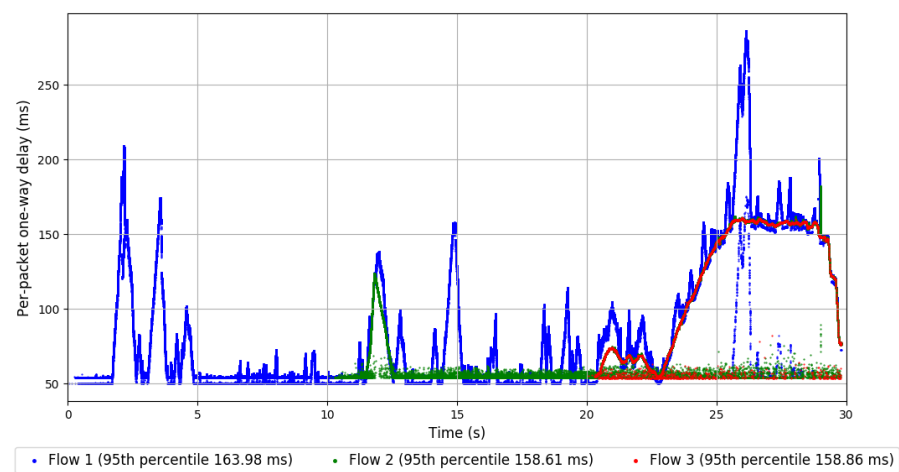
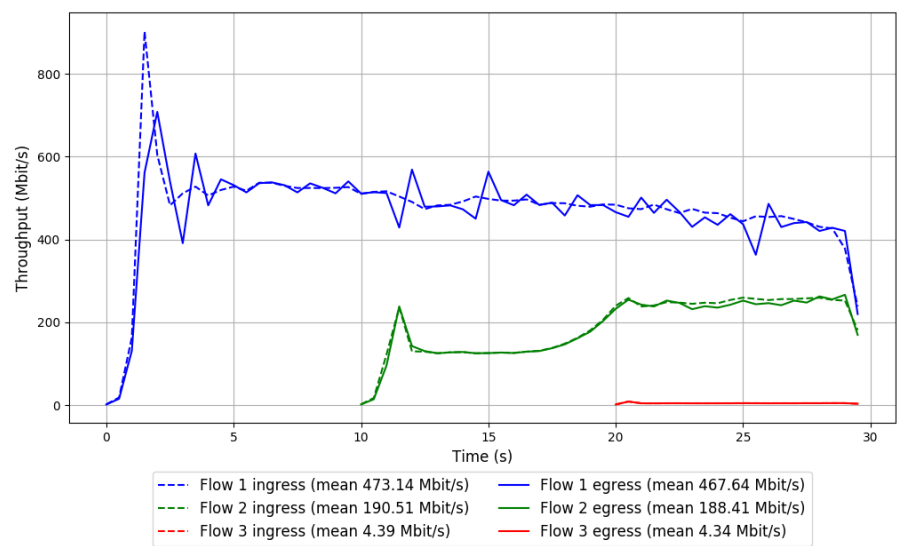


```
Run 2: Statistics of PCC

Start at: 2017-09-22 07:36:58
End at: 2017-09-22 07:37:28

# Below is generated by plot.py at 2017-09-22 11:56:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 594.03 Mbit/s
95th percentile per-packet one-way delay: 160.776 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 467.64 Mbit/s
95th percentile per-packet one-way delay: 163.981 ms
Loss rate: 1.50%
-- Flow 2:
Average throughput: 188.41 Mbit/s
95th percentile per-packet one-way delay: 158.611 ms
Loss rate: 1.64%
-- Flow 3:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: 158.863 ms
Loss rate: 2.35%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-09-22 07:49:33

End at: 2017-09-22 07:50:03

Below is generated by plot.py at 2017-09-22 11:56:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 594.74 Mbit/s

95th percentile per-packet one-way delay: 224.431 ms

Loss rate: 3.32%

-- Flow 1:

Average throughput: 484.99 Mbit/s

95th percentile per-packet one-way delay: 279.421 ms

Loss rate: 3.62%

-- Flow 2:

Average throughput: 134.36 Mbit/s

95th percentile per-packet one-way delay: 156.023 ms

Loss rate: 1.62%

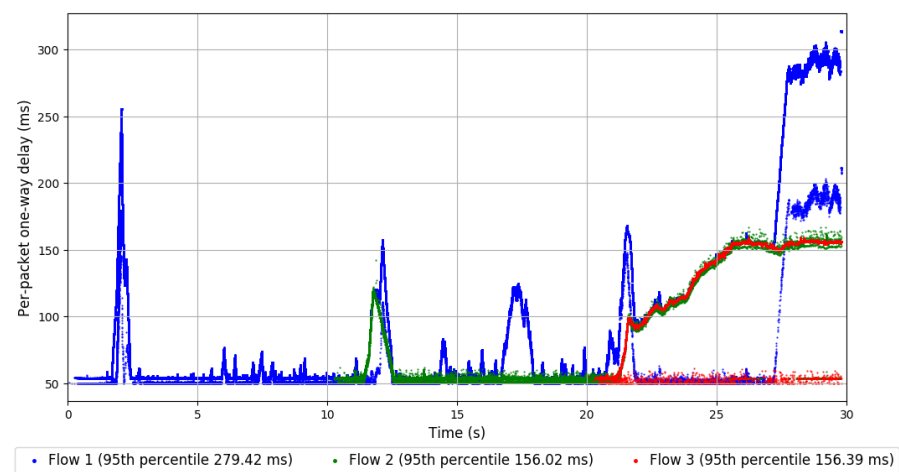
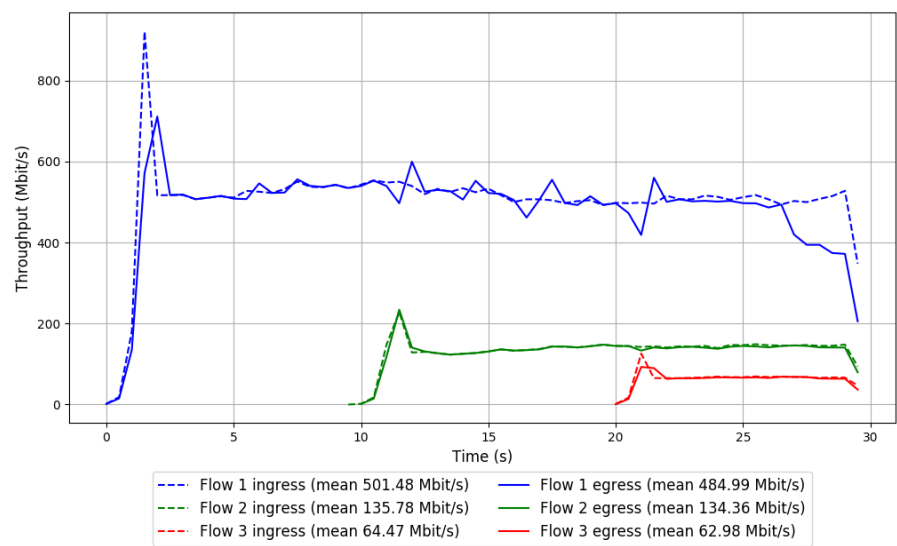
-- Flow 3:

Average throughput: 62.98 Mbit/s

95th percentile per-packet one-way delay: 156.389 ms

Loss rate: 3.39%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-09-22 08:02:04

End at: 2017-09-22 08:02:34

Below is generated by plot.py at 2017-09-22 11:57:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 624.31 Mbit/s

95th percentile per-packet one-way delay: 234.030 ms

Loss rate: 3.17%

-- Flow 1:

Average throughput: 511.19 Mbit/s

95th percentile per-packet one-way delay: 246.458 ms

Loss rate: 3.56%

-- Flow 2:

Average throughput: 140.27 Mbit/s

95th percentile per-packet one-way delay: 153.134 ms

Loss rate: 1.13%

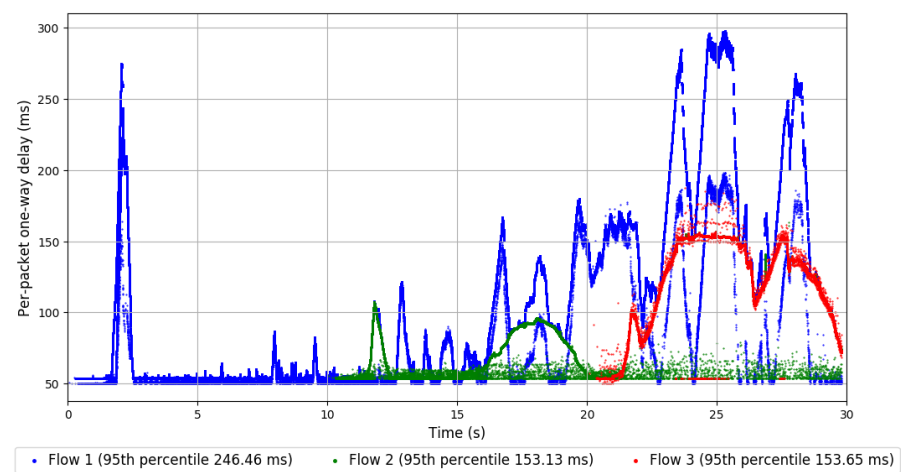
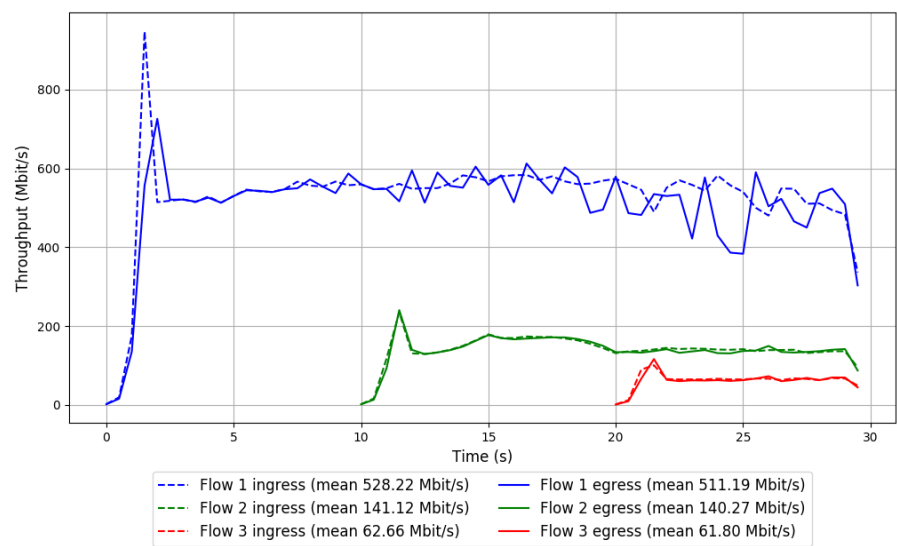
-- Flow 3:

Average throughput: 61.80 Mbit/s

95th percentile per-packet one-way delay: 153.647 ms

Loss rate: 2.48%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-09-22 08:14:16

End at: 2017-09-22 08:14:46

Below is generated by plot.py at 2017-09-22 11:57:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 614.62 Mbit/s

95th percentile per-packet one-way delay: 135.870 ms

Loss rate: 1.20%

-- Flow 1:

Average throughput: 503.27 Mbit/s

95th percentile per-packet one-way delay: 138.766 ms

Loss rate: 1.32%

-- Flow 2:

Average throughput: 163.81 Mbit/s

95th percentile per-packet one-way delay: 125.552 ms

Loss rate: 0.64%

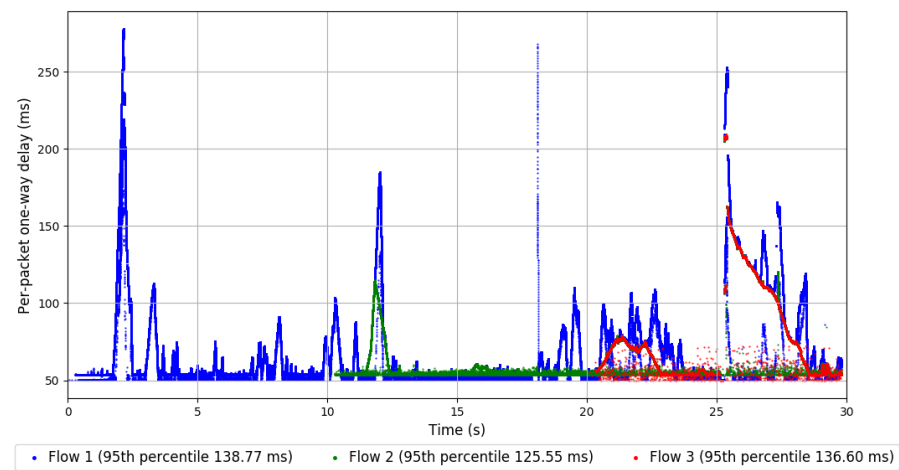
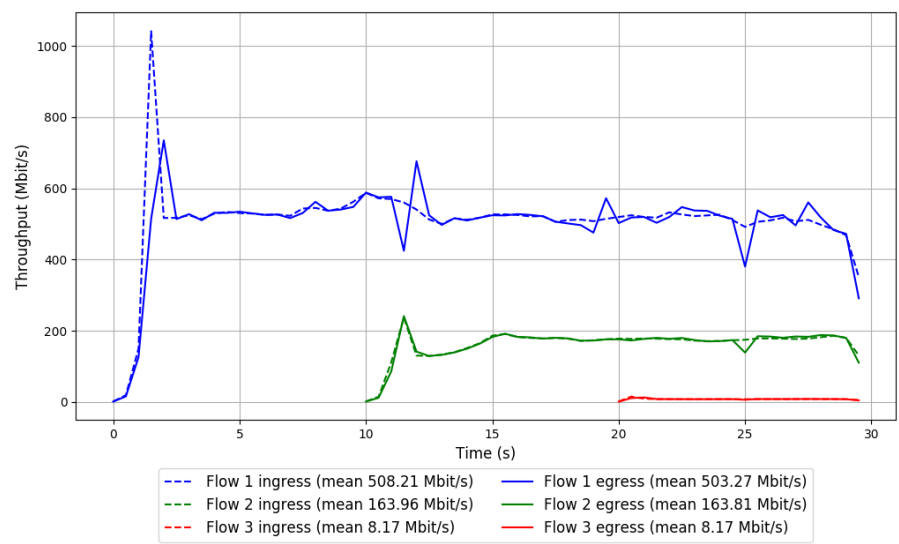
-- Flow 3:

Average throughput: 8.17 Mbit/s

95th percentile per-packet one-way delay: 136.603 ms

Loss rate: 1.18%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-09-22 08:26:31

End at: 2017-09-22 08:27:01

Below is generated by plot.py at 2017-09-22 11:58:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 611.61 Mbit/s

95th percentile per-packet one-way delay: 132.368 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 518.57 Mbit/s

95th percentile per-packet one-way delay: 134.944 ms

Loss rate: 1.26%

-- Flow 2:

Average throughput: 124.27 Mbit/s

95th percentile per-packet one-way delay: 116.136 ms

Loss rate: 0.52%

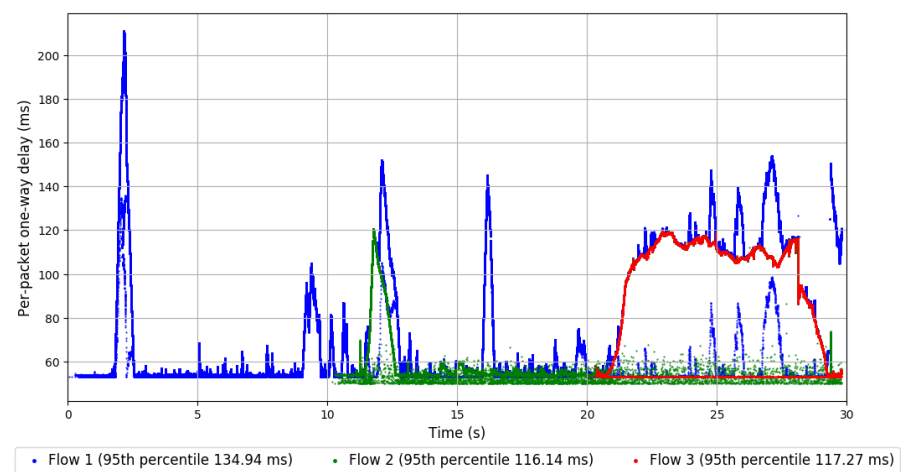
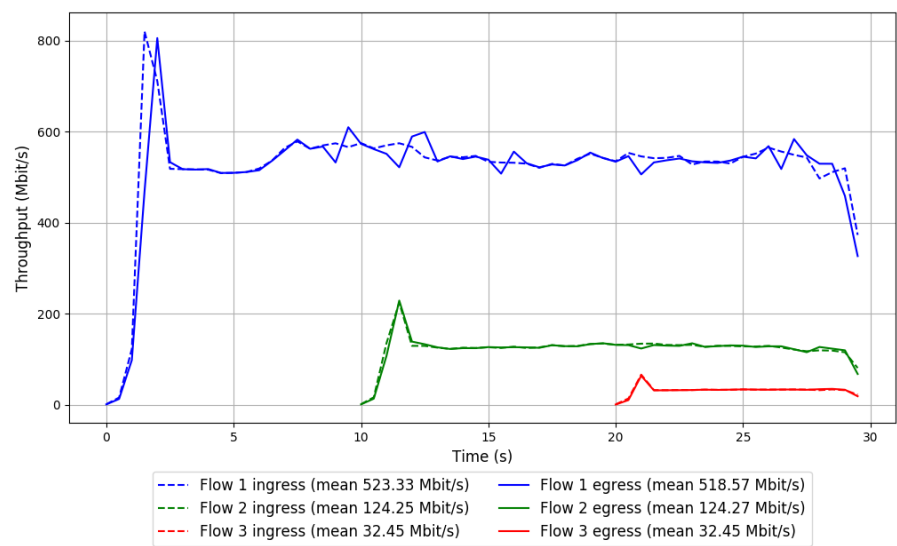
-- Flow 3:

Average throughput: 32.45 Mbit/s

95th percentile per-packet one-way delay: 117.271 ms

Loss rate: 1.09%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-09-22 08:39:04

End at: 2017-09-22 08:39:34

Below is generated by plot.py at 2017-09-22 11:58:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 593.13 Mbit/s

95th percentile per-packet one-way delay: 148.486 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 487.81 Mbit/s

95th percentile per-packet one-way delay: 150.569 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 128.14 Mbit/s

95th percentile per-packet one-way delay: 107.250 ms

Loss rate: 0.57%

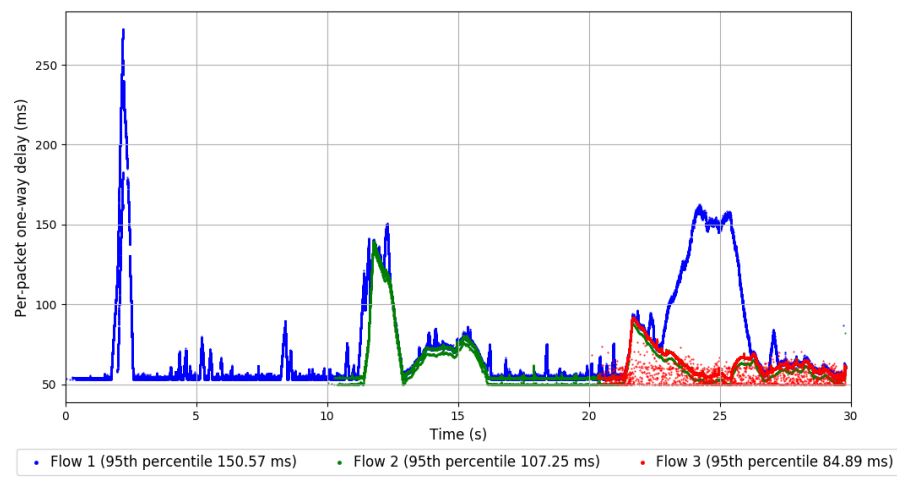
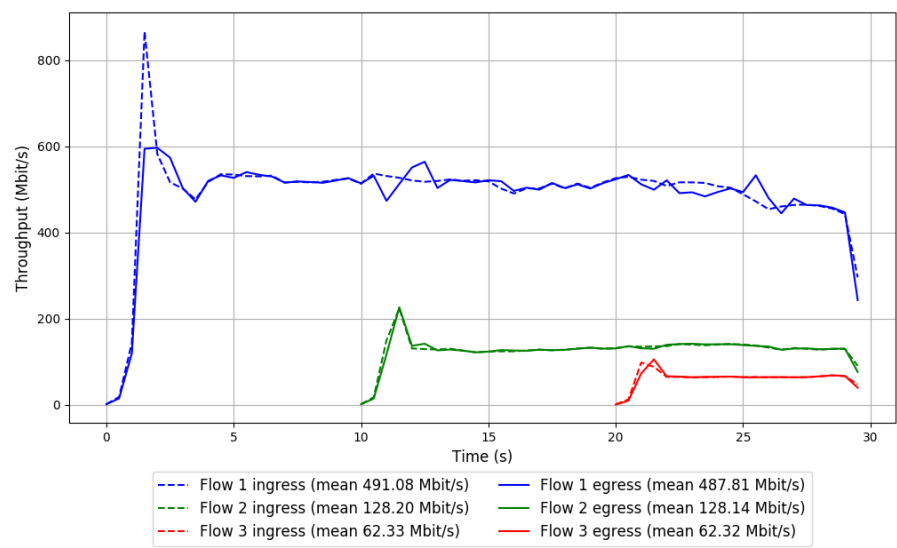
-- Flow 3:

Average throughput: 62.32 Mbit/s

95th percentile per-packet one-way delay: 84.888 ms

Loss rate: 1.25%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-09-22 08:51:39

End at: 2017-09-22 08:52:09

Below is generated by plot.py at 2017-09-22 11:58:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 596.76 Mbit/s

95th percentile per-packet one-way delay: 179.806 ms

Loss rate: 1.98%

-- Flow 1:

Average throughput: 520.62 Mbit/s

95th percentile per-packet one-way delay: 182.062 ms

Loss rate: 1.99%

-- Flow 2:

Average throughput: 113.74 Mbit/s

95th percentile per-packet one-way delay: 166.973 ms

Loss rate: 1.88%

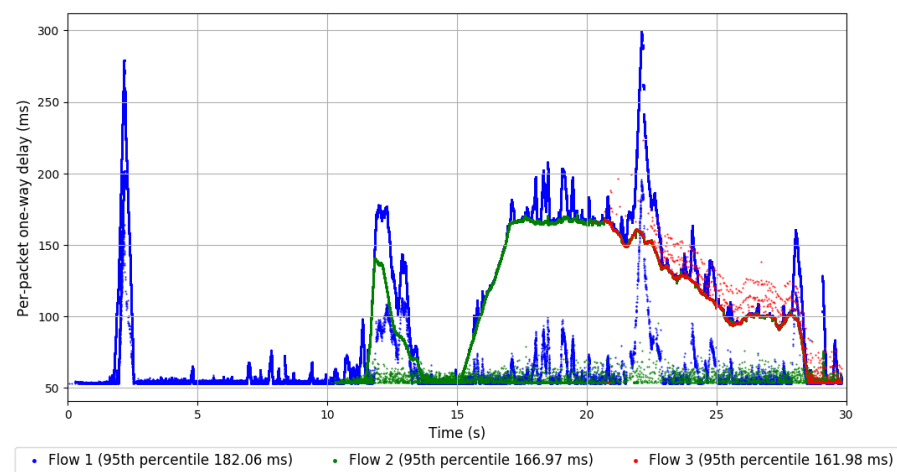
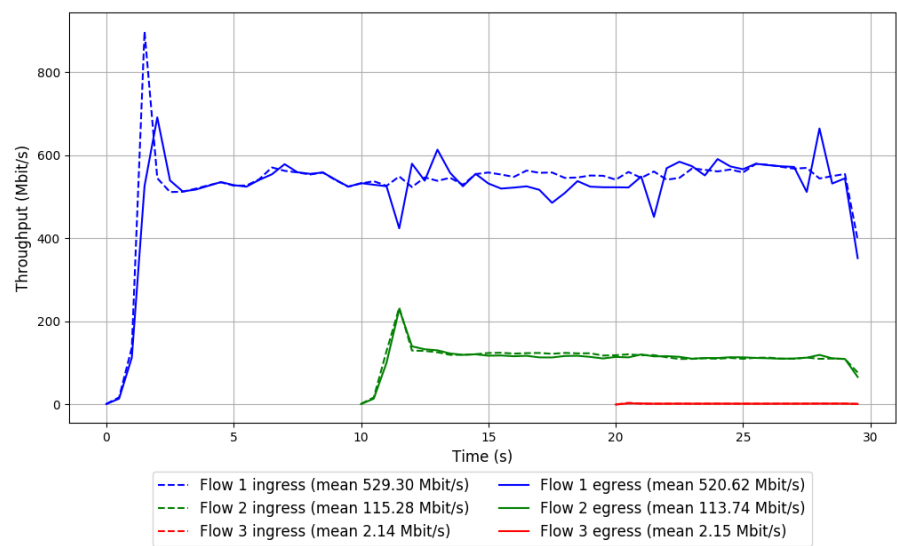
-- Flow 3:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 161.978 ms

Loss rate: 1.75%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-09-22 09:03:57

End at: 2017-09-22 09:04:27

Below is generated by plot.py at 2017-09-22 12:08:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 612.47 Mbit/s

95th percentile per-packet one-way delay: 208.487 ms

Loss rate: 2.76%

-- Flow 1:

Average throughput: 550.66 Mbit/s

95th percentile per-packet one-way delay: 210.164 ms

Loss rate: 2.77%

-- Flow 2:

Average throughput: 33.43 Mbit/s

95th percentile per-packet one-way delay: 149.485 ms

Loss rate: 1.44%

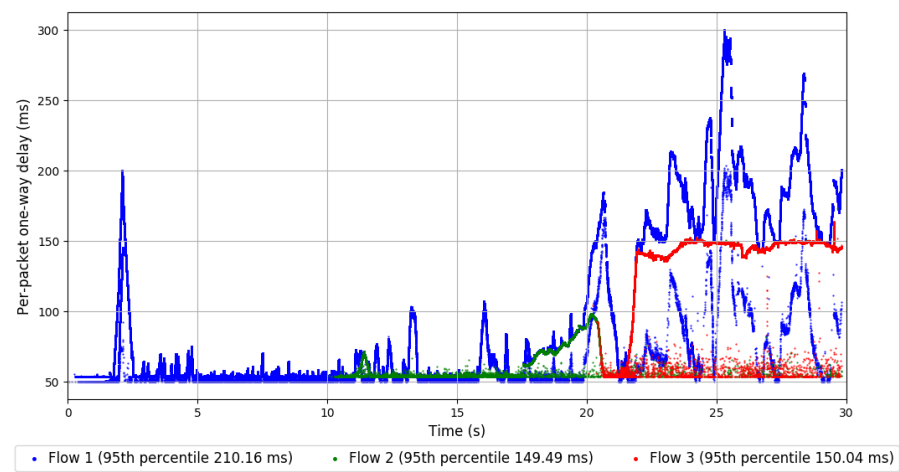
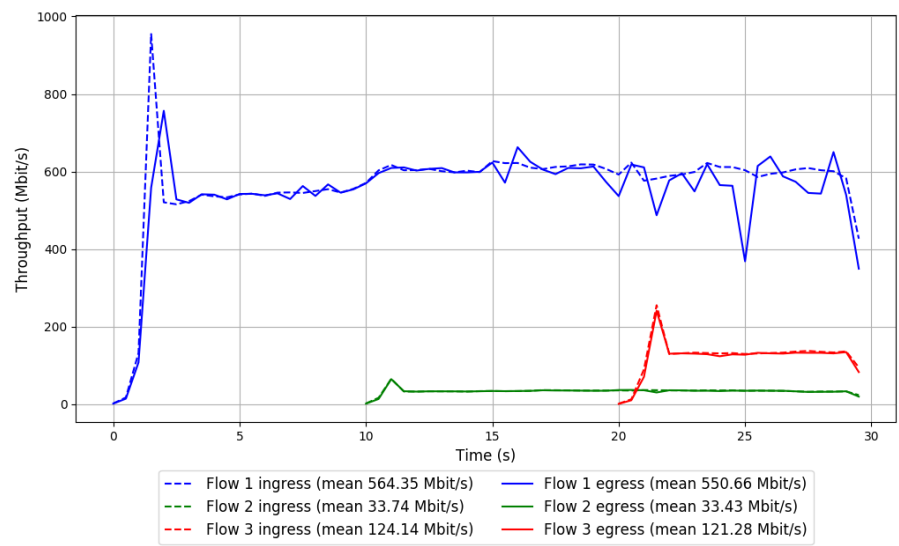
-- Flow 3:

Average throughput: 121.28 Mbit/s

95th percentile per-packet one-way delay: 150.042 ms

Loss rate: 3.38%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-09-22 09:16:23

End at: 2017-09-22 09:16:53

Below is generated by plot.py at 2017-09-22 12:08:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 583.09 Mbit/s

95th percentile per-packet one-way delay: 198.345 ms

Loss rate: 2.06%

-- Flow 1:

Average throughput: 499.52 Mbit/s

95th percentile per-packet one-way delay: 201.012 ms

Loss rate: 2.16%

-- Flow 2:

Average throughput: 124.77 Mbit/s

95th percentile per-packet one-way delay: 157.407 ms

Loss rate: 1.45%

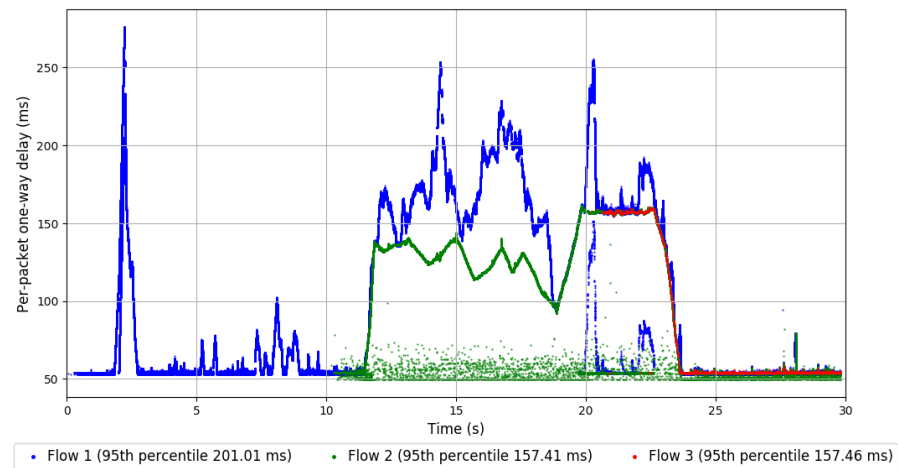
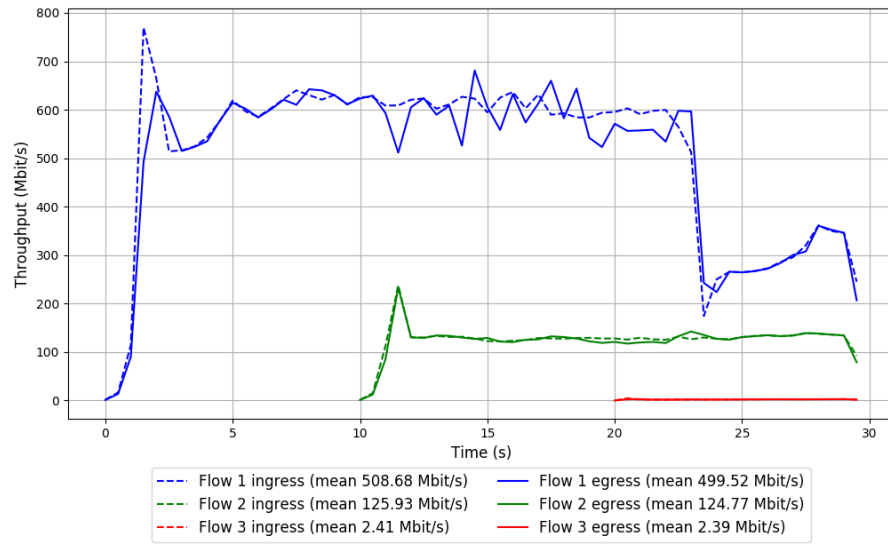
-- Flow 3:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 157.463 ms

Loss rate: 2.94%

Run 10: Report of PCC — Data Link

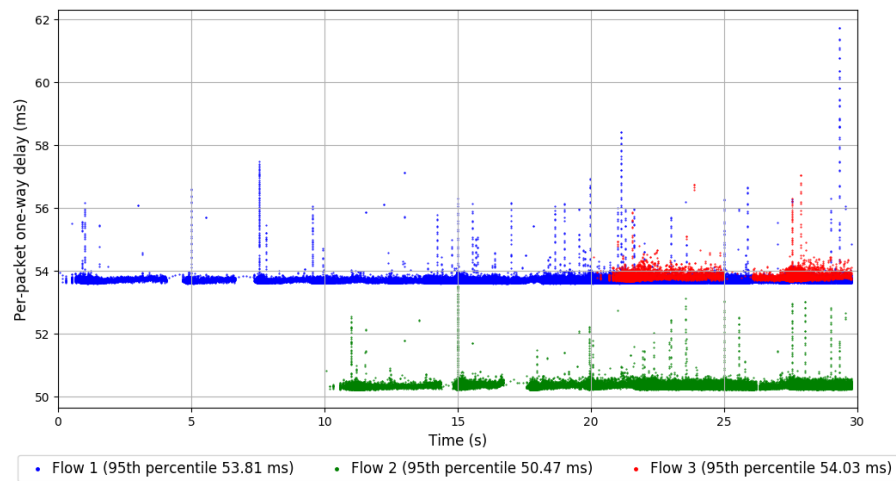
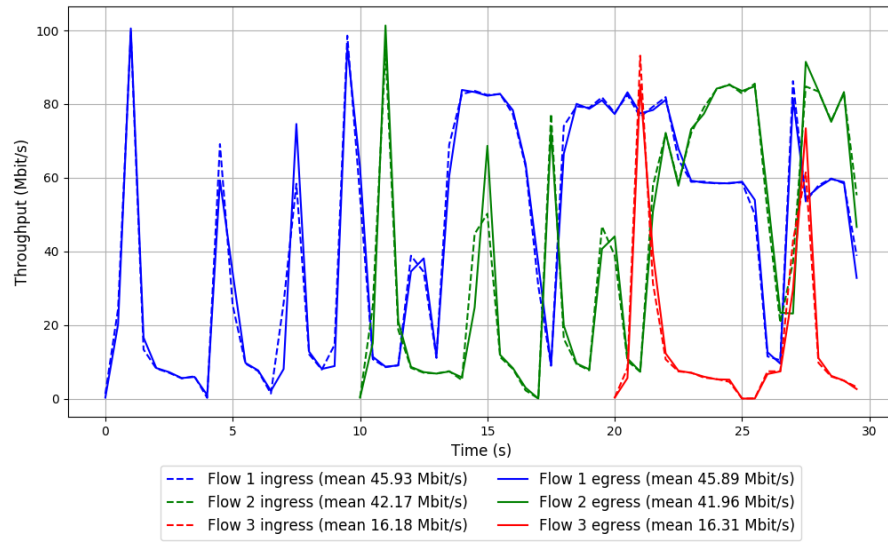


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-09-22 07:22:46
End at: 2017-09-22 07:23:16

# Below is generated by plot.py at 2017-09-22 12:08:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.00 Mbit/s
95th percentile per-packet one-way delay: 53.819 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 45.89 Mbit/s
95th percentile per-packet one-way delay: 53.809 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 41.96 Mbit/s
95th percentile per-packet one-way delay: 50.469 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 16.31 Mbit/s
95th percentile per-packet one-way delay: 54.032 ms
Loss rate: 0.33%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-09-22 07:35:23

End at: 2017-09-22 07:35:53

Below is generated by plot.py at 2017-09-22 12:08:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.66 Mbit/s

95th percentile per-packet one-way delay: 53.839 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 46.99 Mbit/s

95th percentile per-packet one-way delay: 53.196 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 31.28 Mbit/s

95th percentile per-packet one-way delay: 53.940 ms

Loss rate: 0.47%

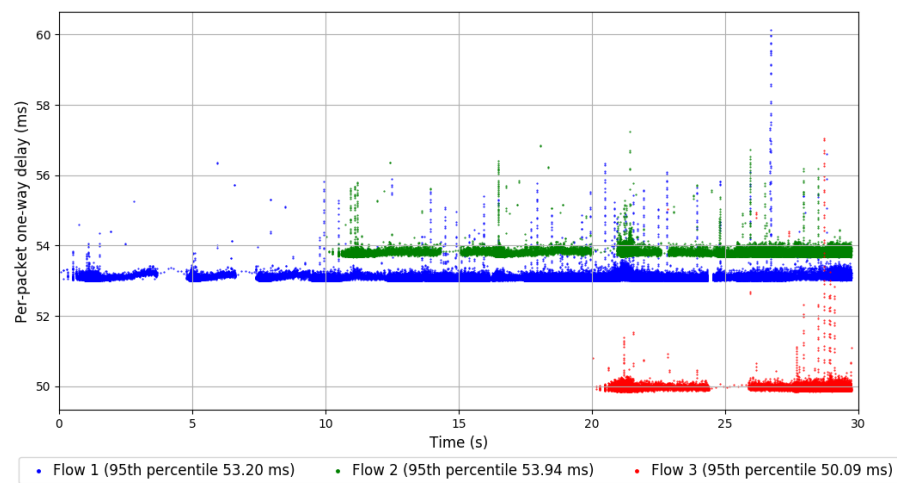
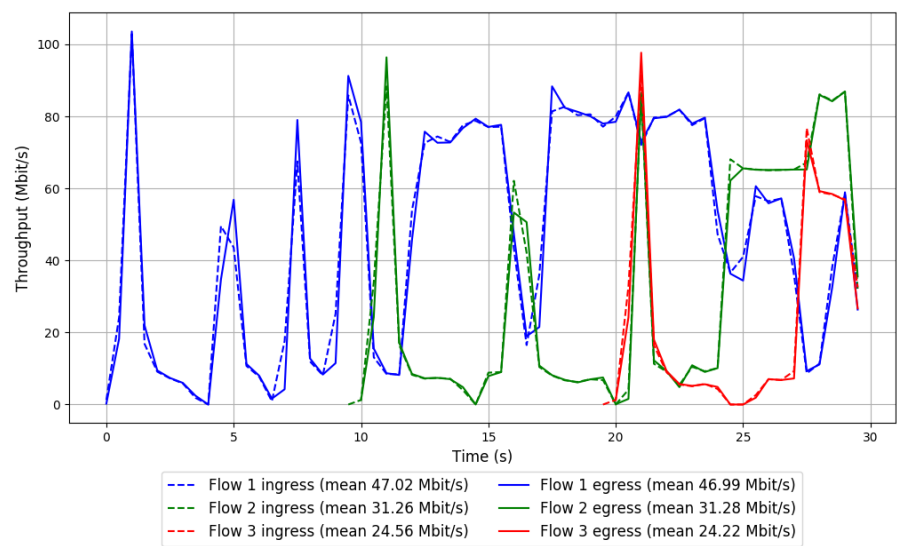
-- Flow 3:

Average throughput: 24.22 Mbit/s

95th percentile per-packet one-way delay: 50.093 ms

Loss rate: 2.45%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-09-22 07:47:45

End at: 2017-09-22 07:48:15

Below is generated by plot.py at 2017-09-22 12:08:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.17 Mbit/s

95th percentile per-packet one-way delay: 53.852 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 41.12 Mbit/s

95th percentile per-packet one-way delay: 53.906 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 27.29 Mbit/s

95th percentile per-packet one-way delay: 53.193 ms

Loss rate: 1.23%

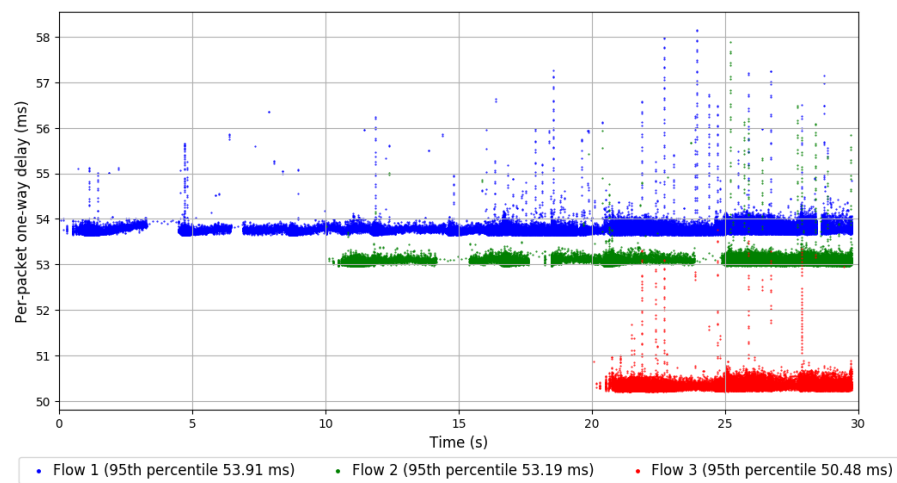
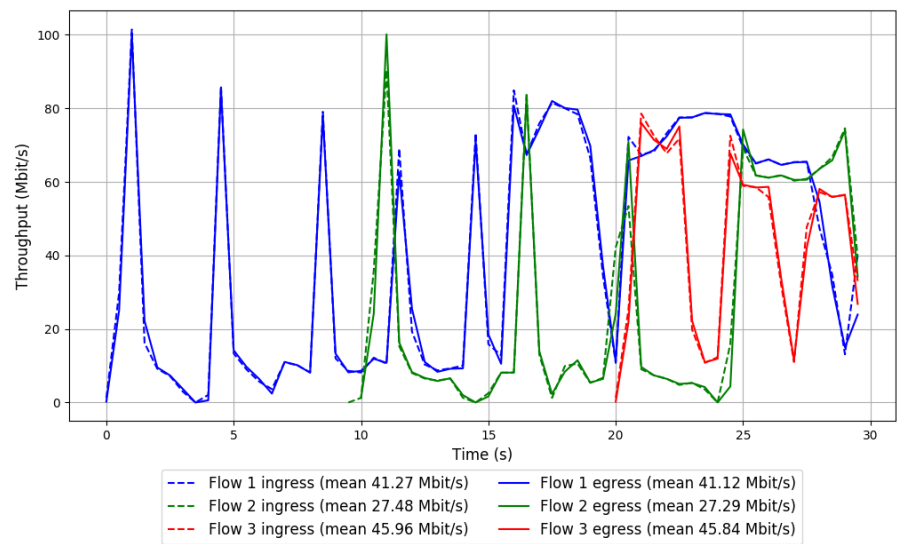
-- Flow 3:

Average throughput: 45.84 Mbit/s

95th percentile per-packet one-way delay: 50.484 ms

Loss rate: 1.32%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-09-22 08:00:20

End at: 2017-09-22 08:00:50

Below is generated by plot.py at 2017-09-22 12:08:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.82 Mbit/s

95th percentile per-packet one-way delay: 53.771 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 44.41 Mbit/s

95th percentile per-packet one-way delay: 53.810 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 56.69 Mbit/s

95th percentile per-packet one-way delay: 50.407 ms

Loss rate: 0.53%

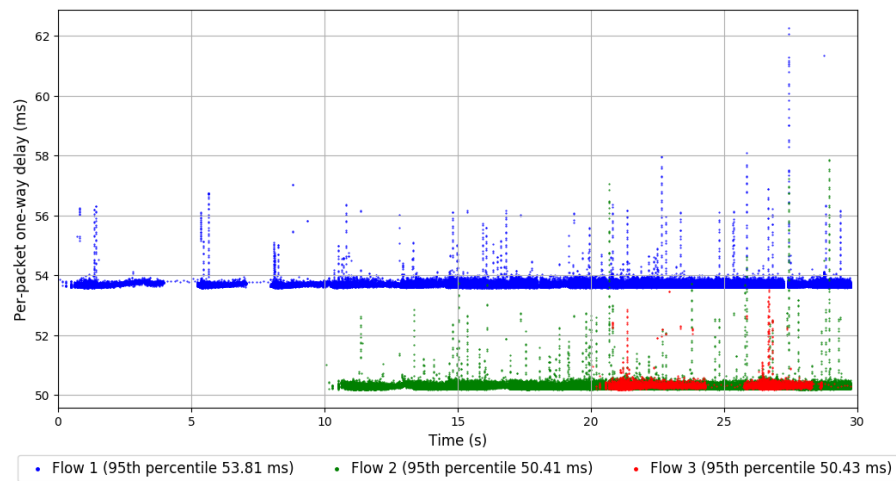
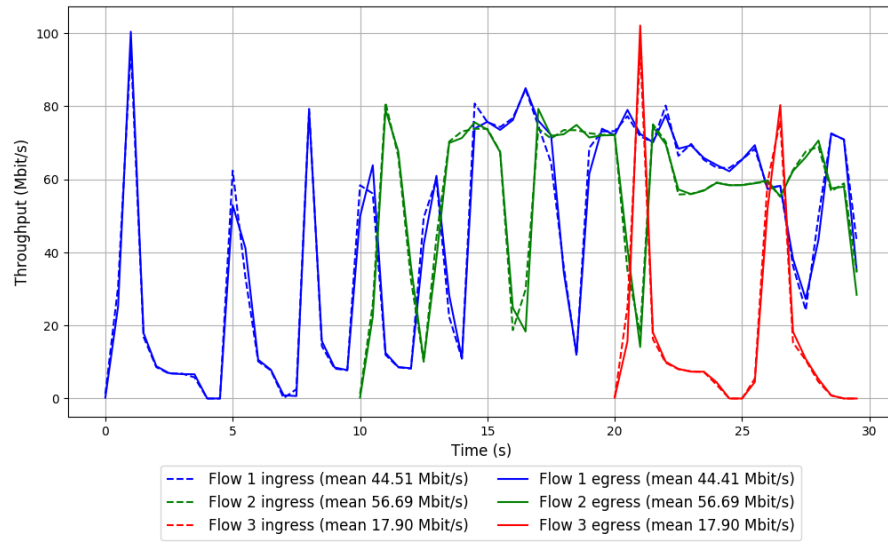
-- Flow 3:

Average throughput: 17.90 Mbit/s

95th percentile per-packet one-way delay: 50.427 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-09-22 08:12:30

End at: 2017-09-22 08:13:00

Below is generated by plot.py at 2017-09-22 12:08:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.99 Mbit/s

95th percentile per-packet one-way delay: 53.811 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 42.29 Mbit/s

95th percentile per-packet one-way delay: 53.816 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 20.66 Mbit/s

95th percentile per-packet one-way delay: 50.031 ms

Loss rate: 1.53%

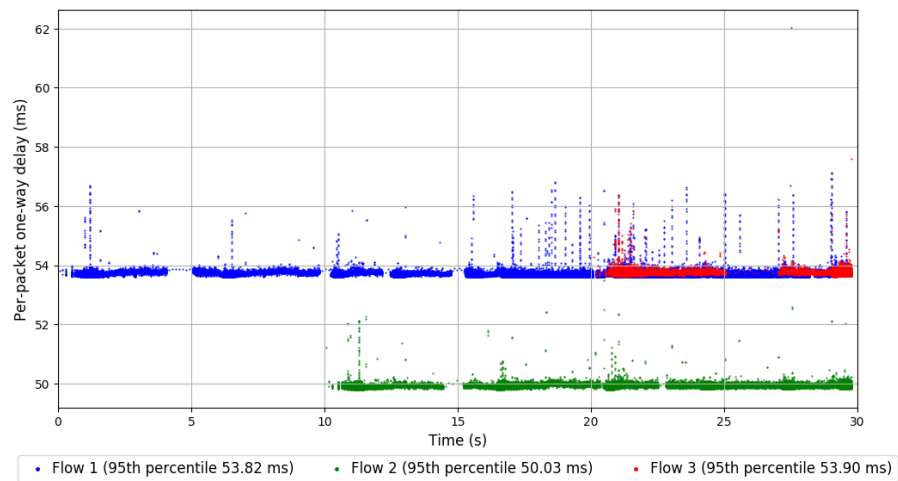
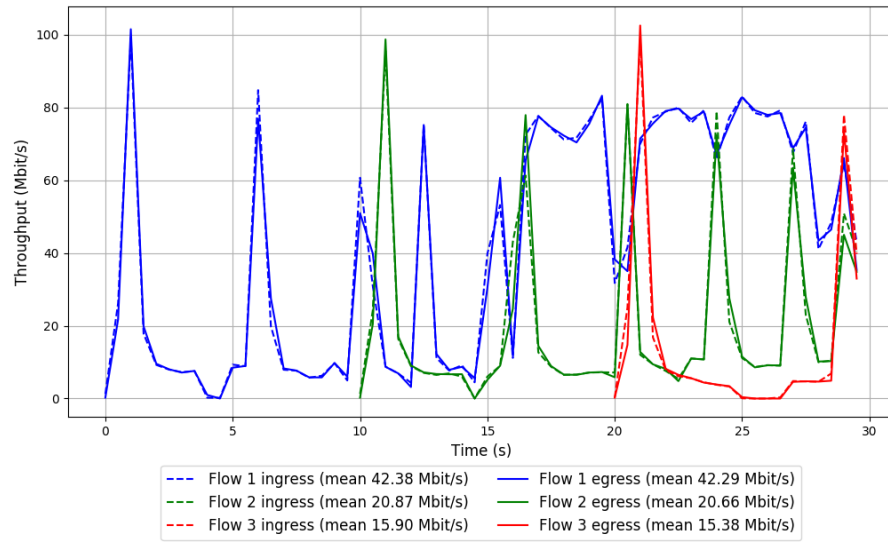
-- Flow 3:

Average throughput: 15.38 Mbit/s

95th percentile per-packet one-way delay: 53.897 ms

Loss rate: 4.32%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-09-22 08:24:58

End at: 2017-09-22 08:25:28

Below is generated by plot.py at 2017-09-22 12:08:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.30 Mbit/s

95th percentile per-packet one-way delay: 53.775 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 47.01 Mbit/s

95th percentile per-packet one-way delay: 50.060 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 24.36 Mbit/s

95th percentile per-packet one-way delay: 53.794 ms

Loss rate: 1.54%

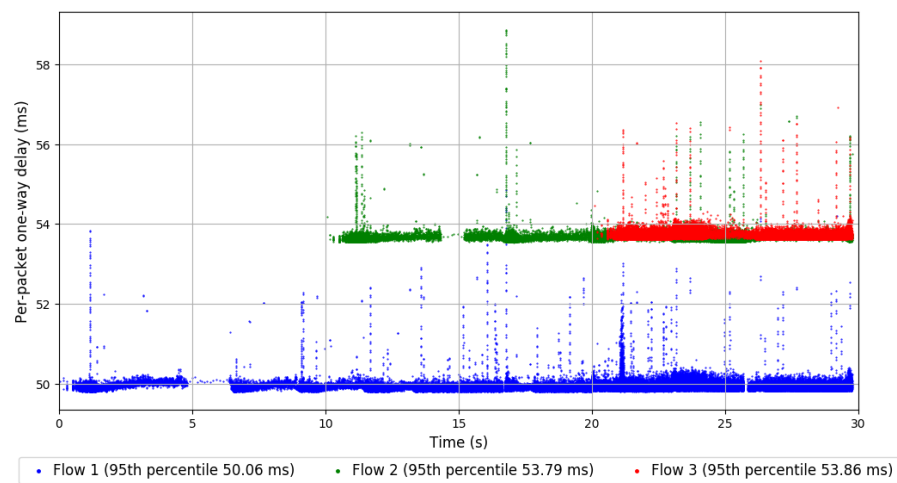
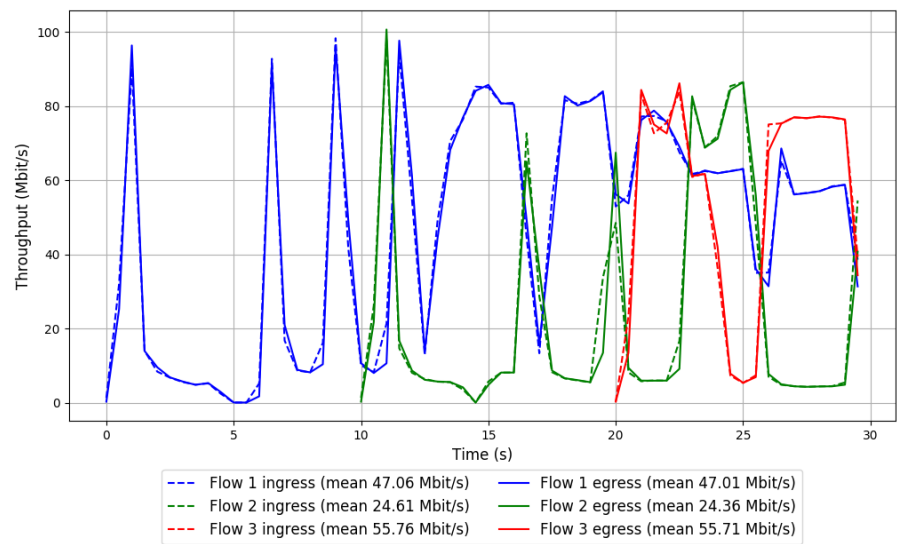
-- Flow 3:

Average throughput: 55.71 Mbit/s

95th percentile per-packet one-way delay: 53.857 ms

Loss rate: 1.19%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-09-22 08:37:15

End at: 2017-09-22 08:37:45

Below is generated by plot.py at 2017-09-22 12:08:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.10 Mbit/s

95th percentile per-packet one-way delay: 53.816 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 69.48 Mbit/s

95th percentile per-packet one-way delay: 50.289 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 23.96 Mbit/s

95th percentile per-packet one-way delay: 53.919 ms

Loss rate: 1.34%

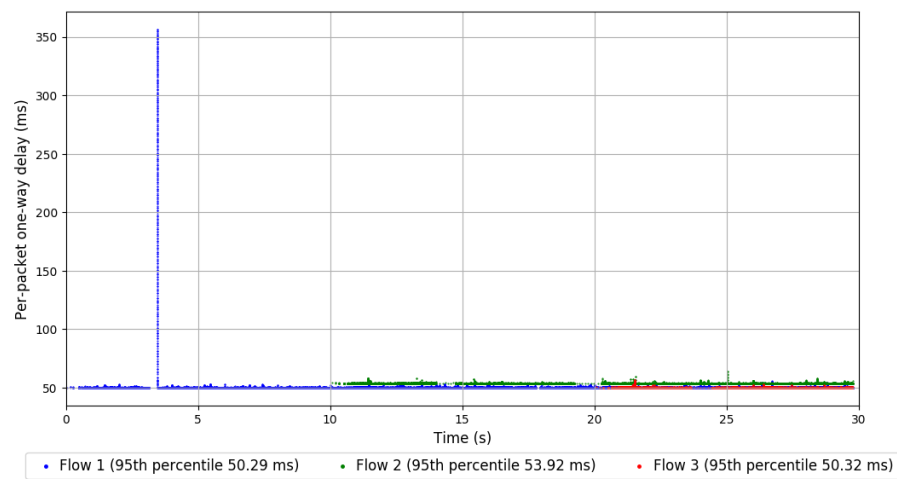
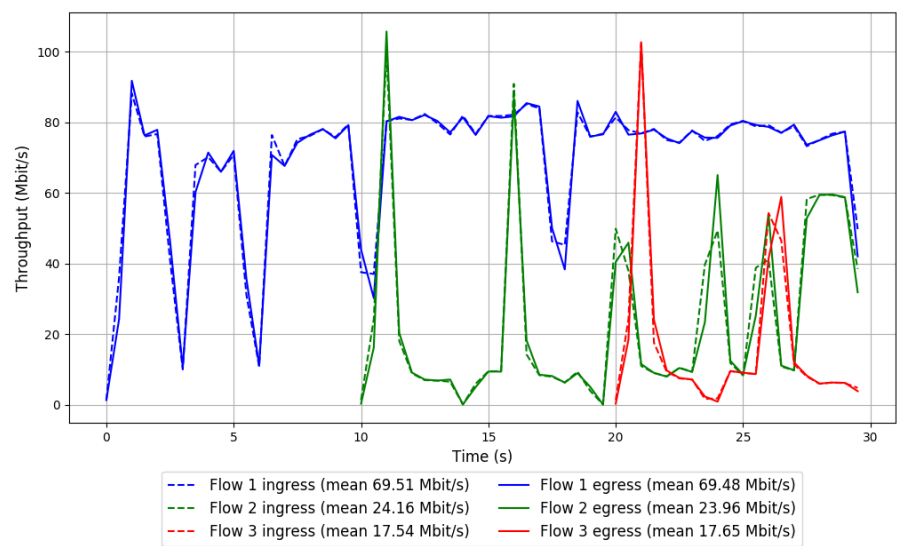
-- Flow 3:

Average throughput: 17.65 Mbit/s

95th percentile per-packet one-way delay: 50.320 ms

Loss rate: 0.42%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-09-22 08:49:53

End at: 2017-09-22 08:50:23

Below is generated by plot.py at 2017-09-22 12:08:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.51 Mbit/s

95th percentile per-packet one-way delay: 50.230 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 37.96 Mbit/s

95th percentile per-packet one-way delay: 50.056 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 31.84 Mbit/s

95th percentile per-packet one-way delay: 50.060 ms

Loss rate: 0.19%

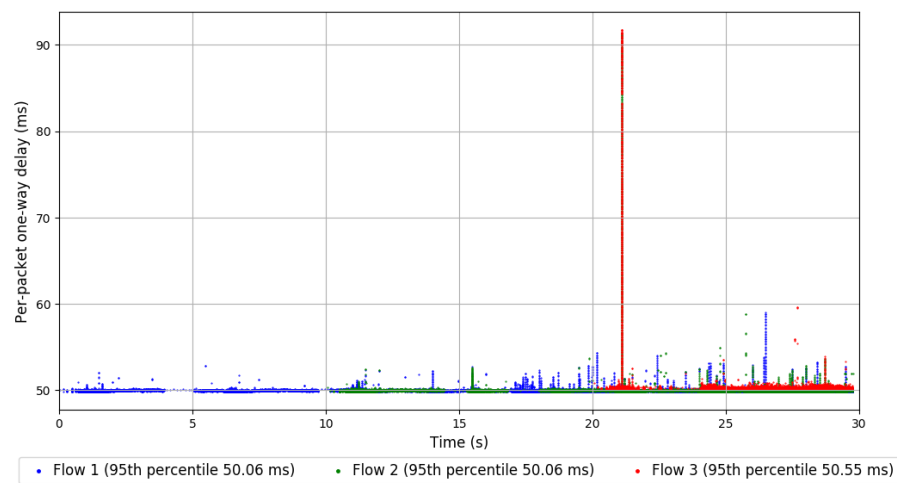
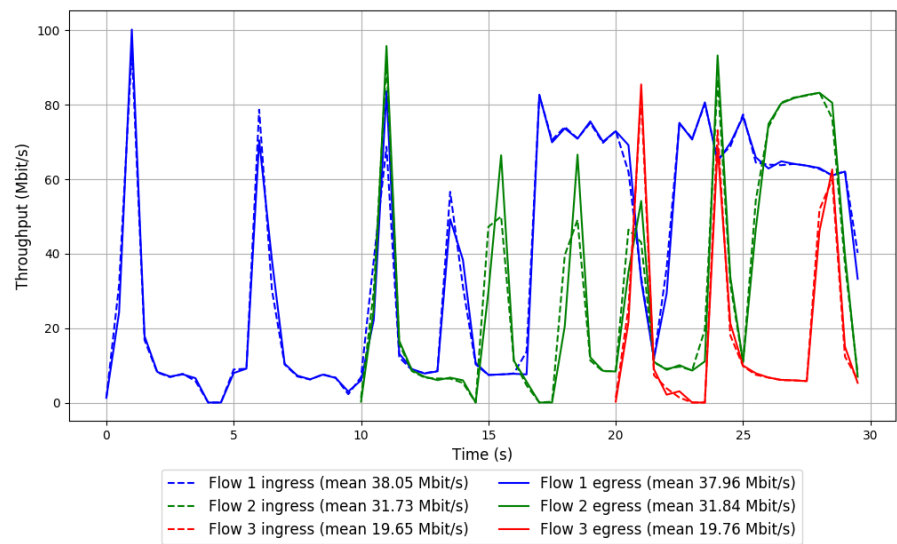
-- Flow 3:

Average throughput: 19.76 Mbit/s

95th percentile per-packet one-way delay: 50.548 ms

Loss rate: 0.49%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-09-22 09:02:21

End at: 2017-09-22 09:02:51

Below is generated by plot.py at 2017-09-22 12:08:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 116.14 Mbit/s

95th percentile per-packet one-way delay: 53.088 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 66.65 Mbit/s

95th percentile per-packet one-way delay: 50.332 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 53.31 Mbit/s

95th percentile per-packet one-way delay: 53.138 ms

Loss rate: 0.56%

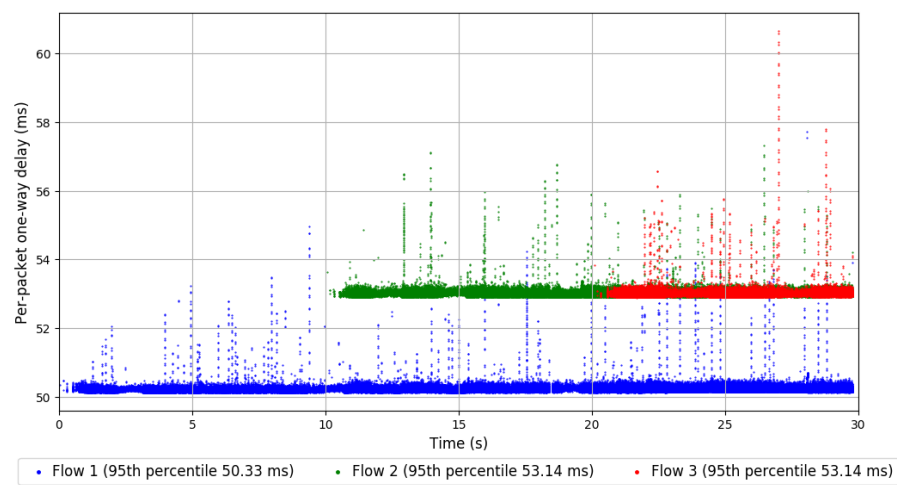
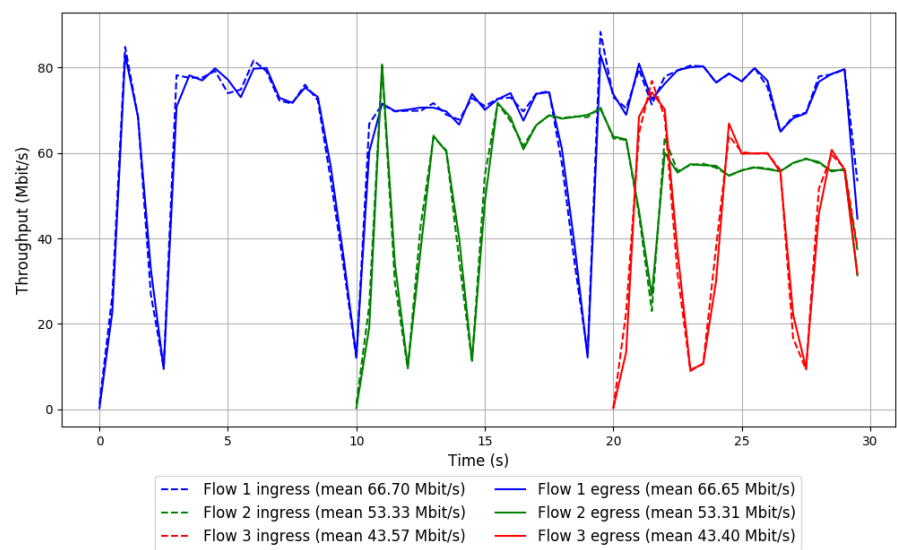
-- Flow 3:

Average throughput: 43.40 Mbit/s

95th percentile per-packet one-way delay: 53.137 ms

Loss rate: 1.43%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-09-22 09:14:35

End at: 2017-09-22 09:15:05

Below is generated by plot.py at 2017-09-22 12:08:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.81 Mbit/s

95th percentile per-packet one-way delay: 53.628 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 39.97 Mbit/s

95th percentile per-packet one-way delay: 50.355 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 54.93 Mbit/s

95th percentile per-packet one-way delay: 53.192 ms

Loss rate: 0.69%

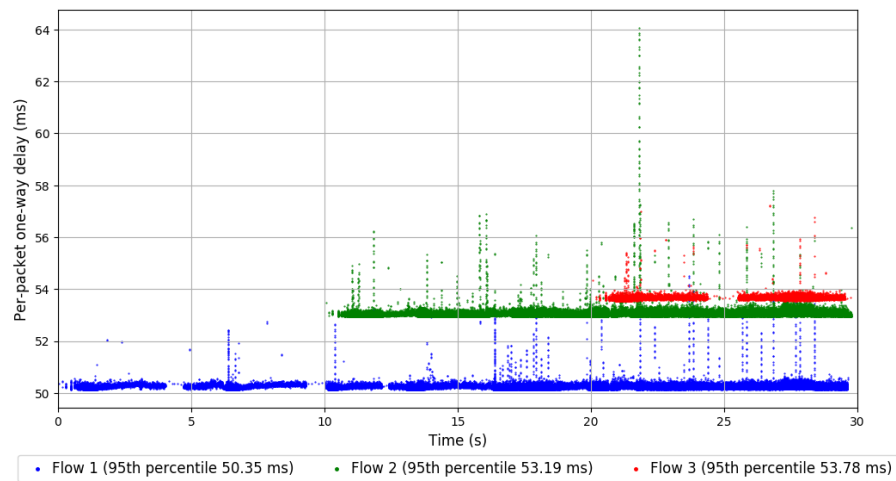
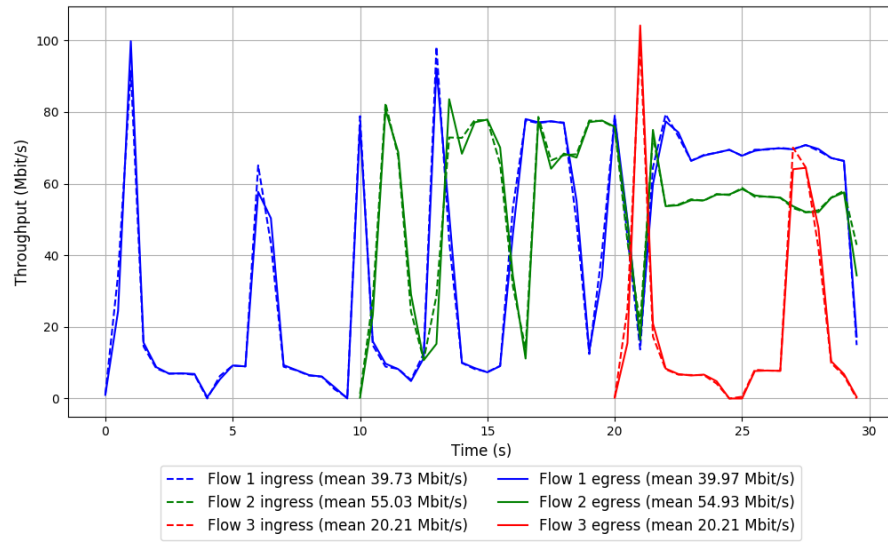
-- Flow 3:

Average throughput: 20.21 Mbit/s

95th percentile per-packet one-way delay: 53.784 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

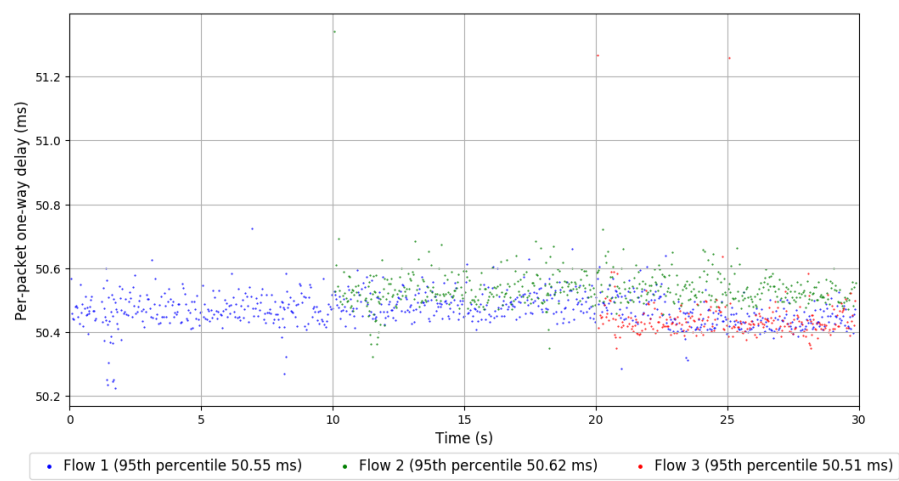
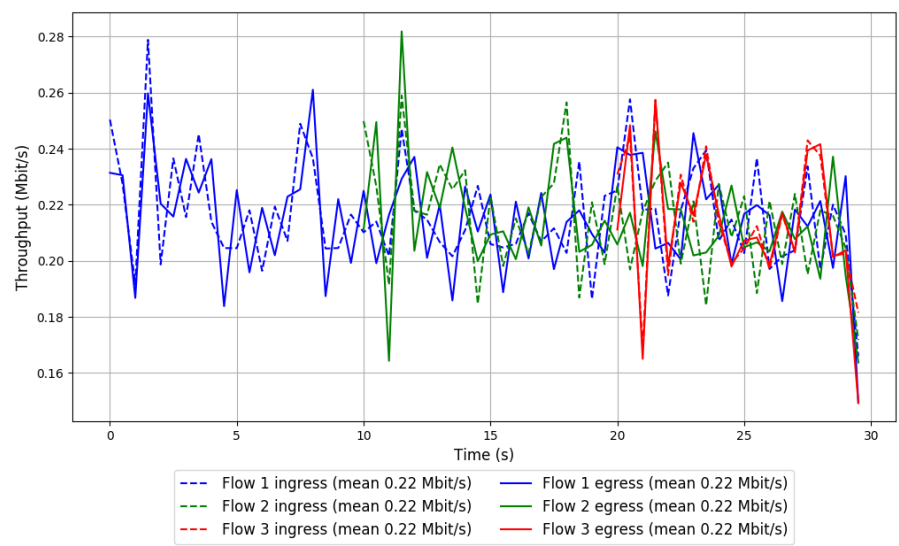


```
Run 1: Statistics of SCReAM

Start at: 2017-09-22 07:17:43
End at: 2017-09-22 07:18:13

# Below is generated by plot.py at 2017-09-22 12:08:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.588 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.551 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.617 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.514 ms
Loss rate: 1.11%
```

Run 1: Report of SReAM — Data Link

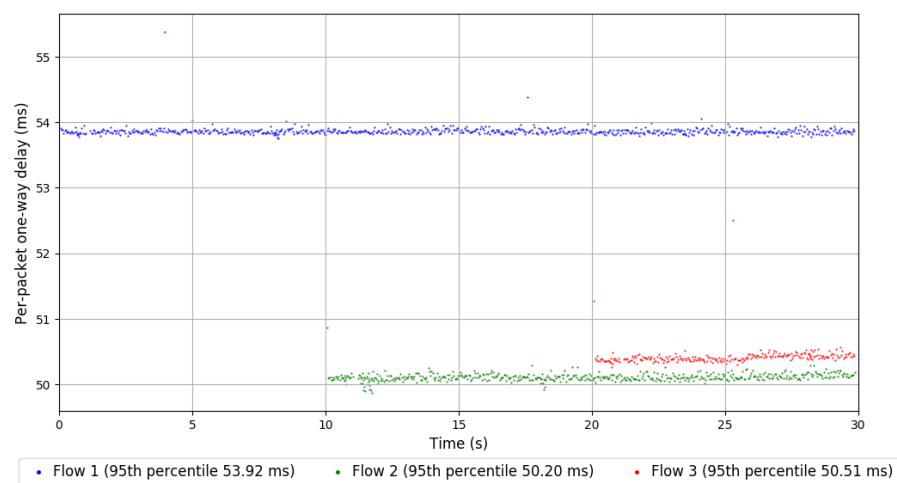
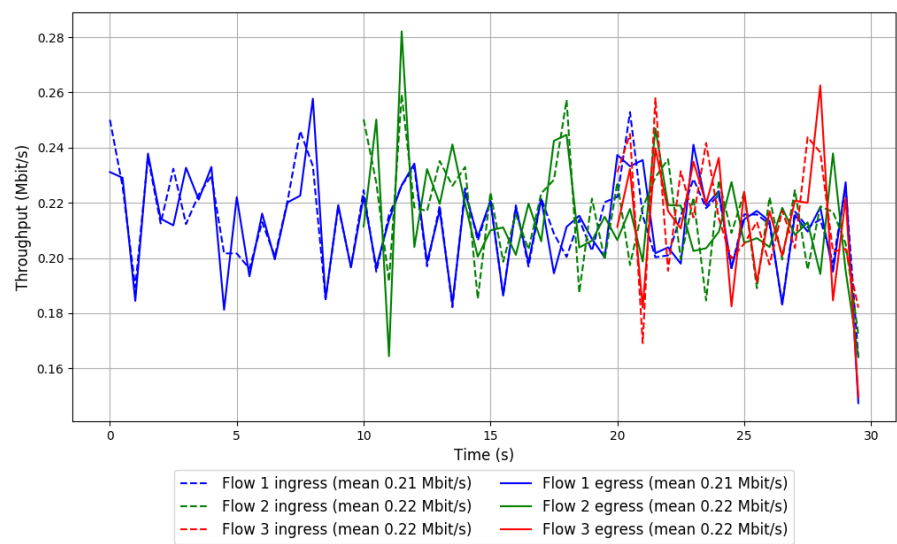


```
Run 2: Statistics of SReAM

Start at: 2017-09-22 07:30:20
End at: 2017-09-22 07:30:50

# Below is generated by plot.py at 2017-09-22 12:08:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.906 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.923 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.200 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.507 ms
Loss rate: 1.11%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-09-22 07:42:47

End at: 2017-09-22 07:43:17

Below is generated by plot.py at 2017-09-22 12:08:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.208 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.119 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.177 ms

Loss rate: 0.42%

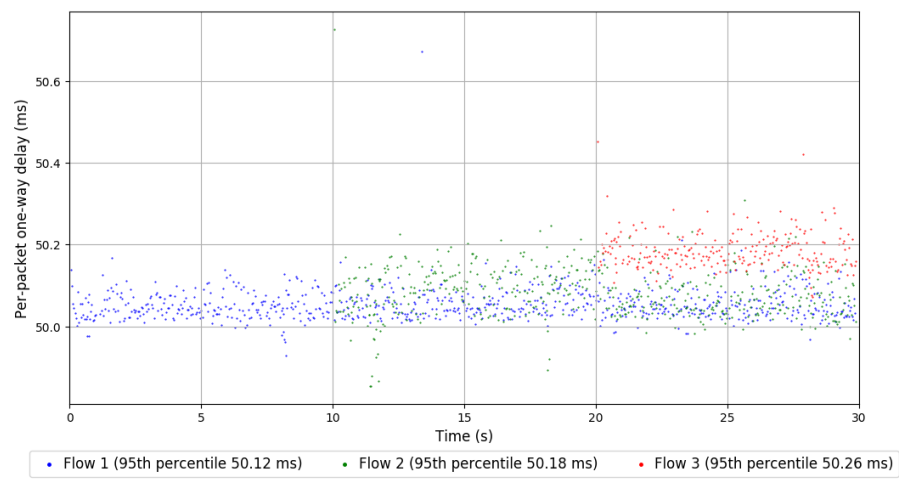
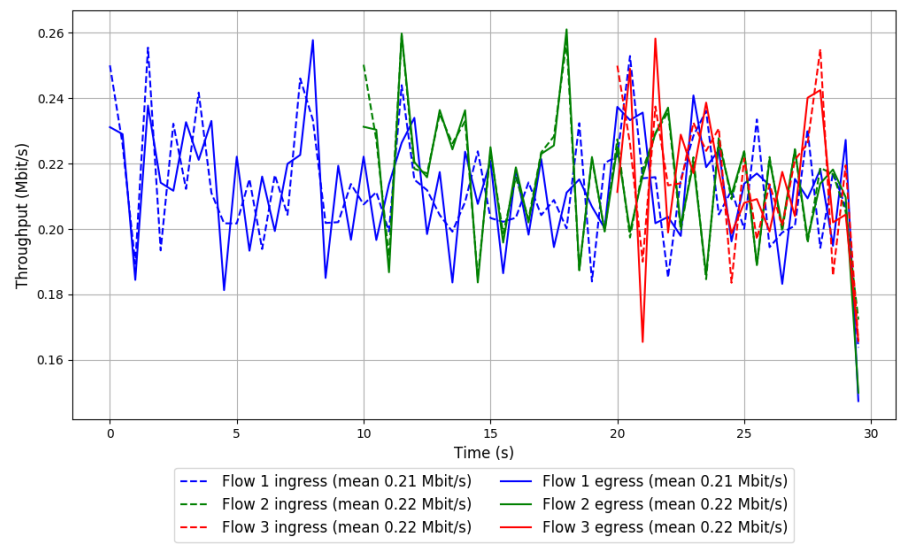
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.261 ms

Loss rate: 0.74%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2017-09-22 07:55:06

End at: 2017-09-22 07:55:36

Below is generated by plot.py at 2017-09-22 12:08:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.915 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.935 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.270 ms

Loss rate: 0.43%

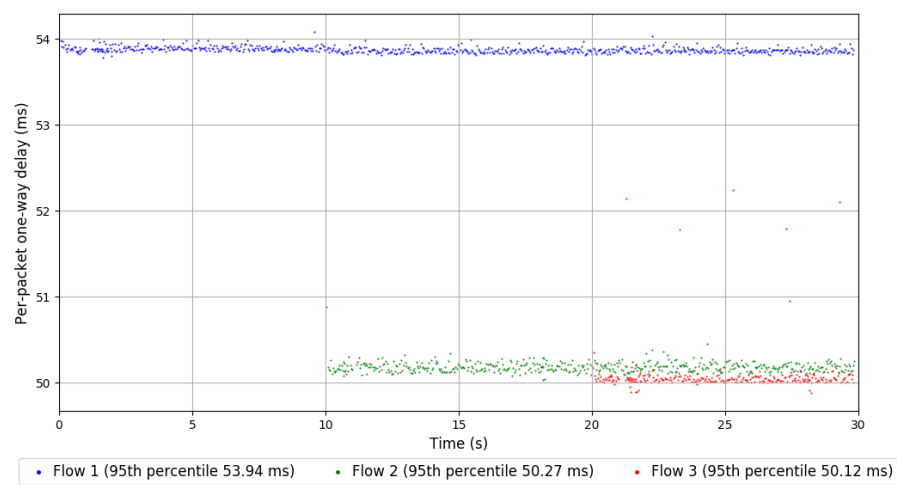
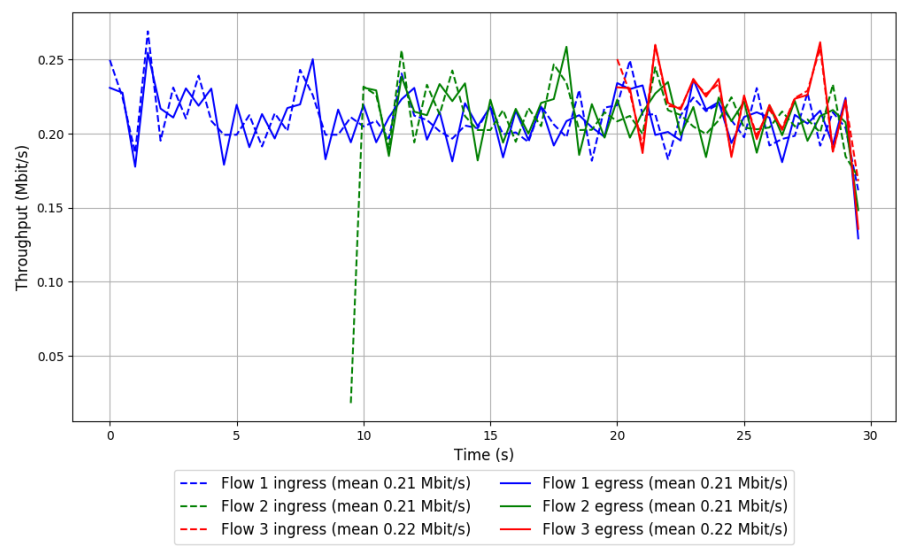
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.121 ms

Loss rate: 1.11%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2017-09-22 08:07:27

End at: 2017-09-22 08:07:57

Below is generated by plot.py at 2017-09-22 12:08:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 53.308 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 299.80 Mbit/s

95th percentile per-packet one-way delay: 4048.023 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.305 ms

Loss rate: 0.63%

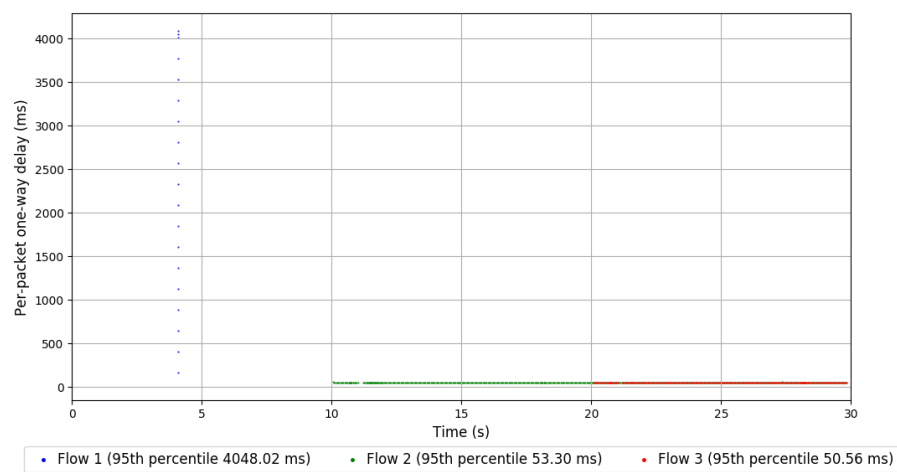
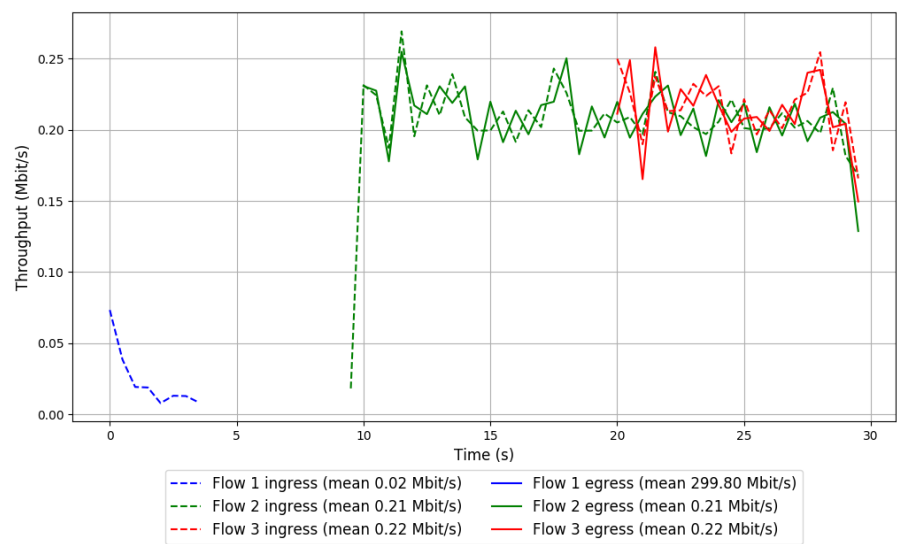
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.560 ms

Loss rate: 1.11%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2017-09-22 08:19:51

End at: 2017-09-22 08:20:21

Below is generated by plot.py at 2017-09-22 12:08:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.493 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 58.159 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.485 ms

Loss rate: 0.42%

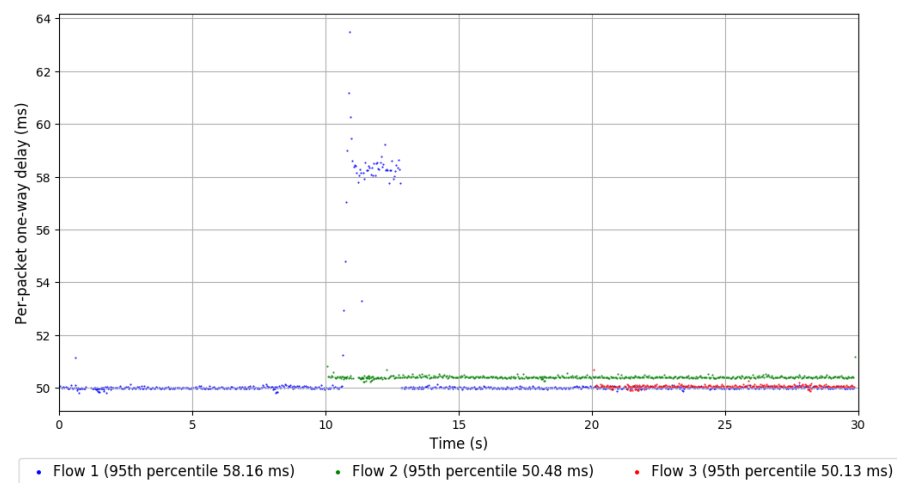
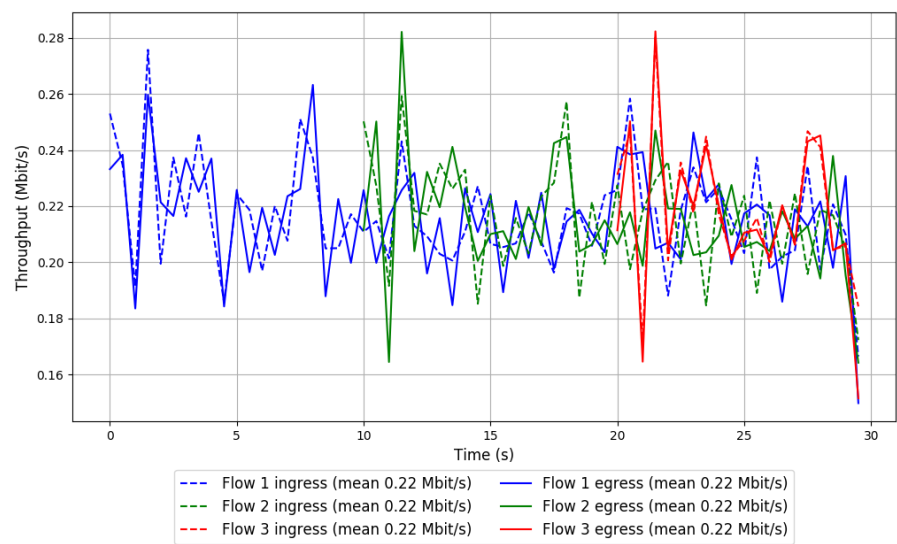
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.134 ms

Loss rate: 1.11%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2017-09-22 08:32:18

End at: 2017-09-22 08:32:48

Below is generated by plot.py at 2017-09-22 12:08:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.263 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.415 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.303 ms

Loss rate: 0.63%

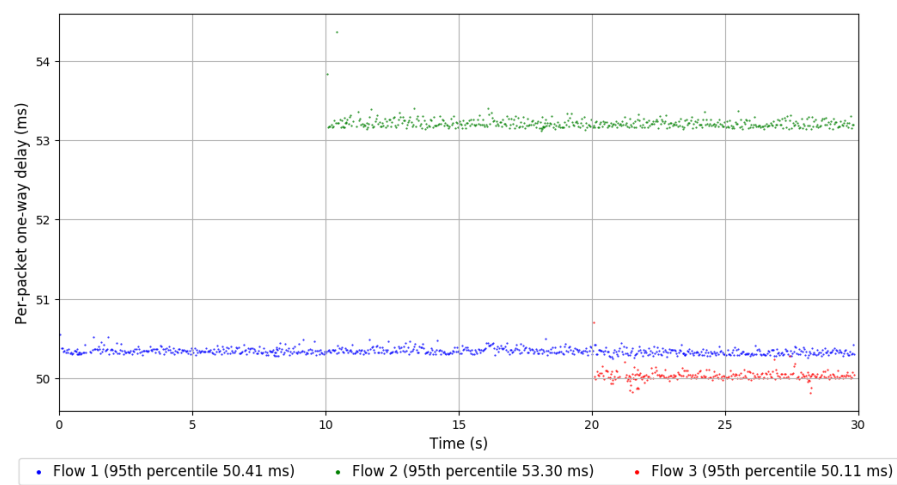
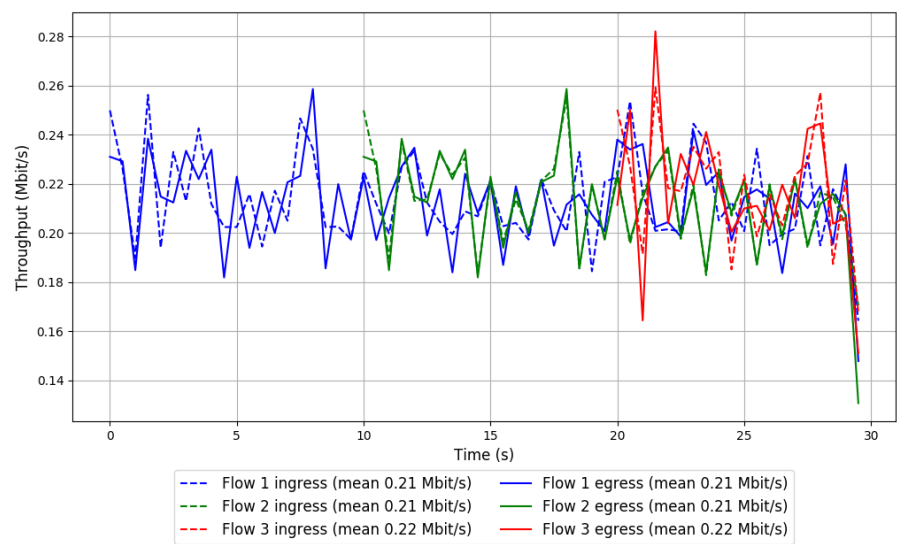
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.110 ms

Loss rate: 1.11%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2017-09-22 08:44:45

End at: 2017-09-22 08:45:15

Below is generated by plot.py at 2017-09-22 12:08:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.281 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.298 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.513 ms

Loss rate: 0.42%

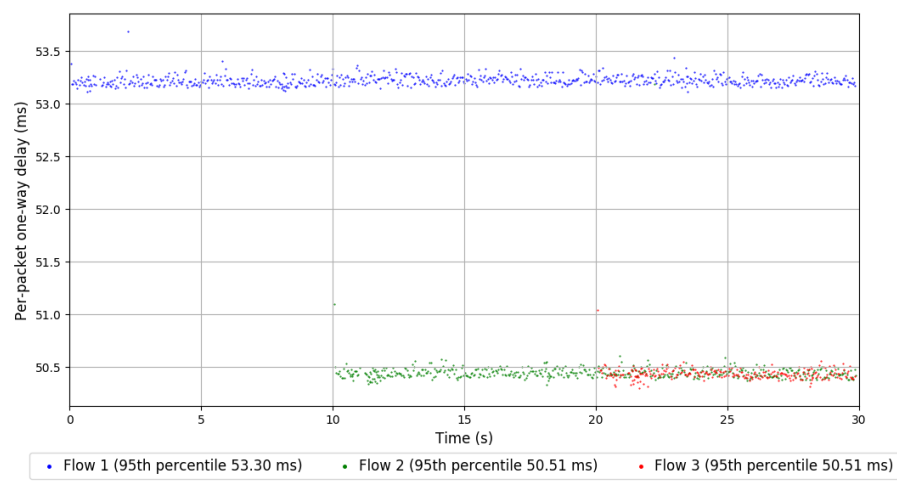
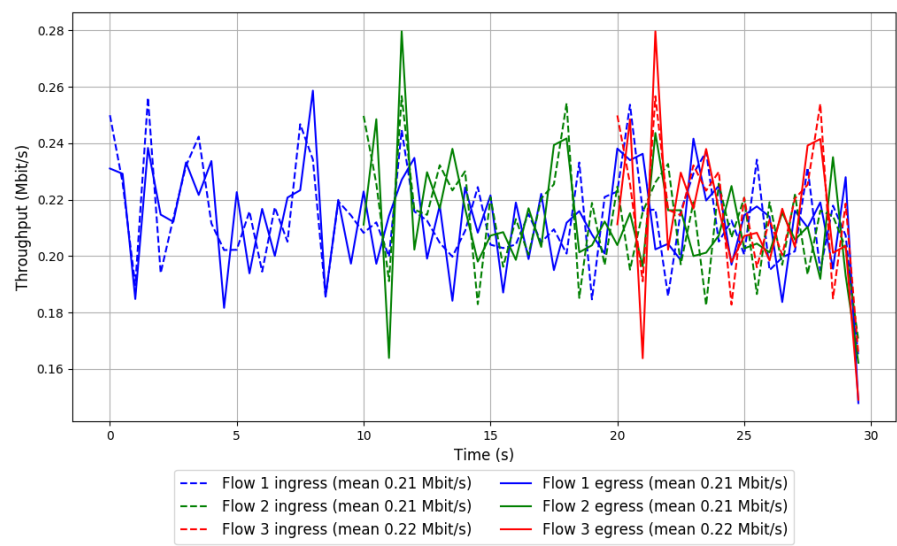
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.509 ms

Loss rate: 1.10%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2017-09-22 08:57:17

End at: 2017-09-22 08:57:47

Below is generated by plot.py at 2017-09-22 12:08:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.857 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.186 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.889 ms

Loss rate: 0.42%

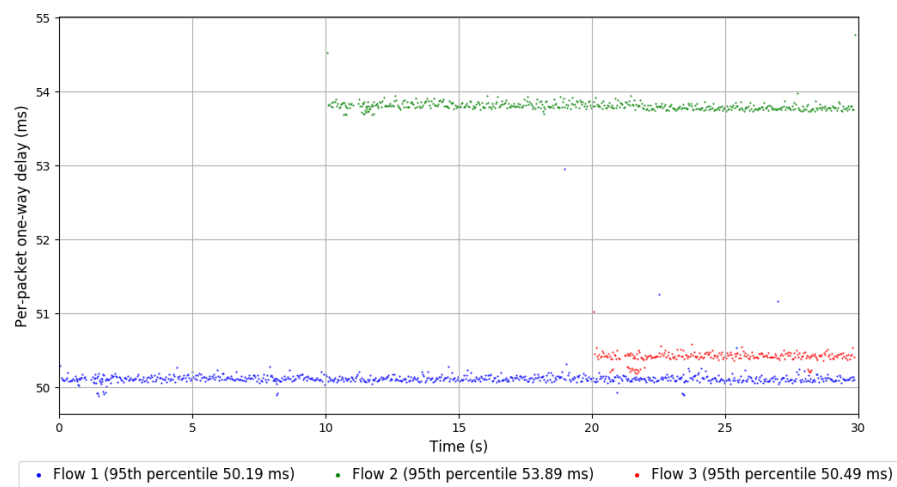
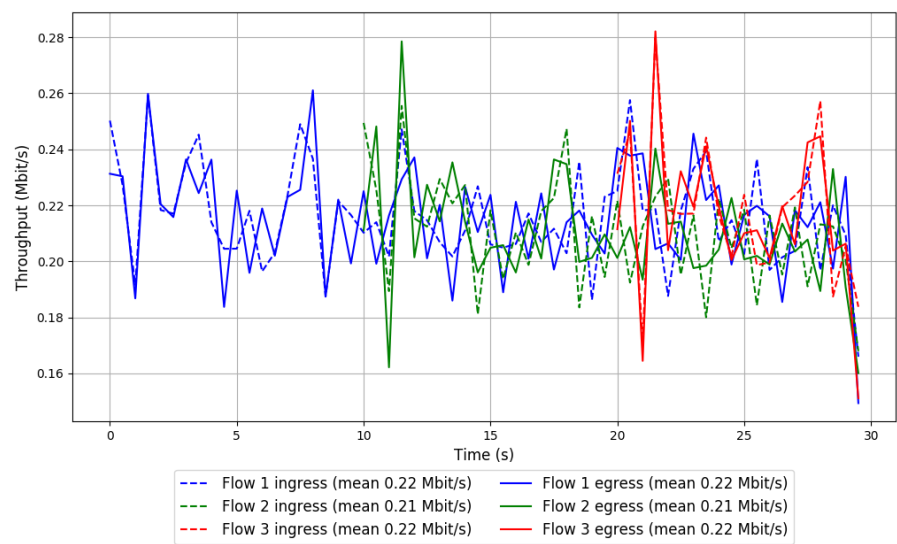
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.495 ms

Loss rate: 1.11%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-09-22 09:09:39

End at: 2017-09-22 09:10:09

Below is generated by plot.py at 2017-09-22 12:08:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 53.855 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.864 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.152 ms

Loss rate: 0.43%

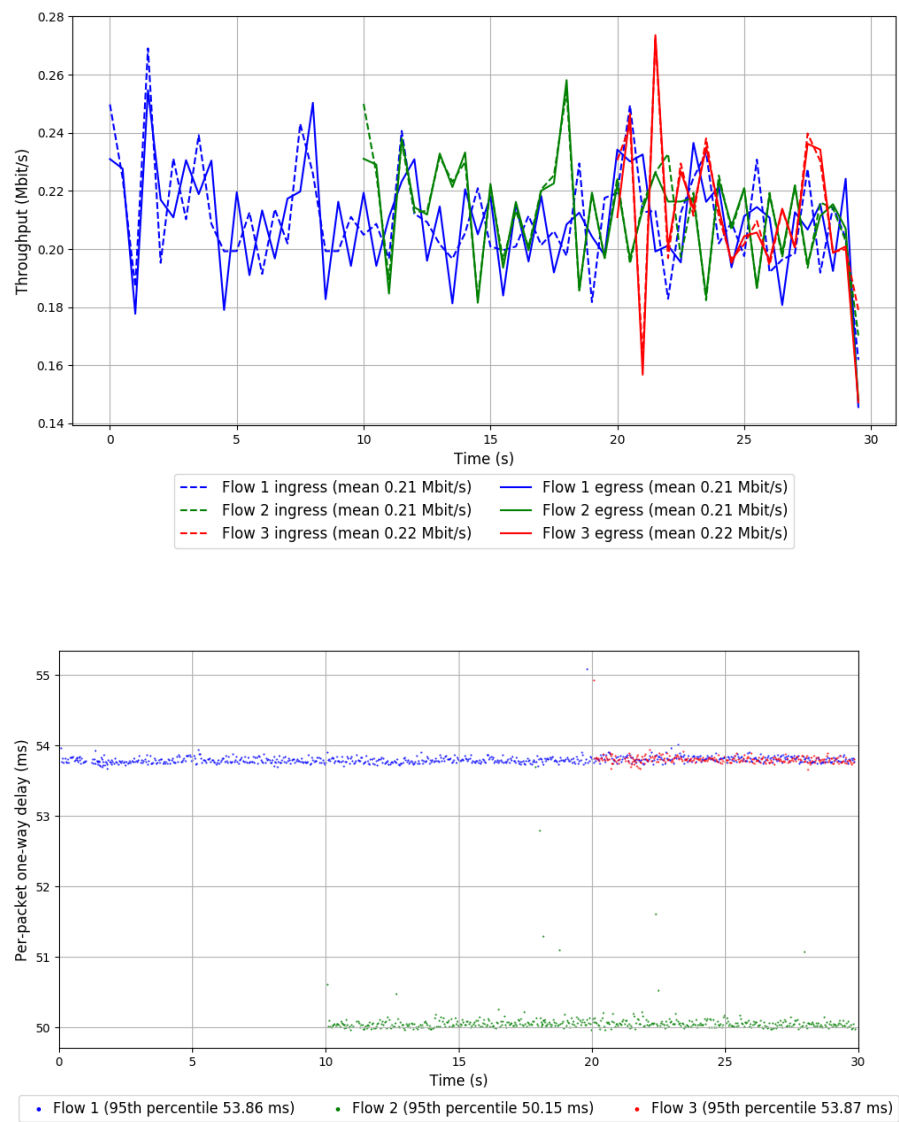
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.871 ms

Loss rate: 1.11%

Run 10: Report of SReAM — Data Link

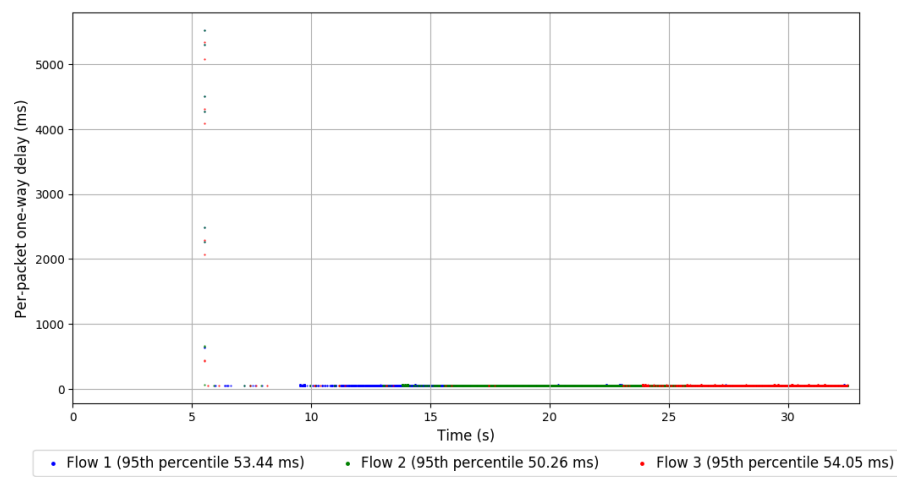
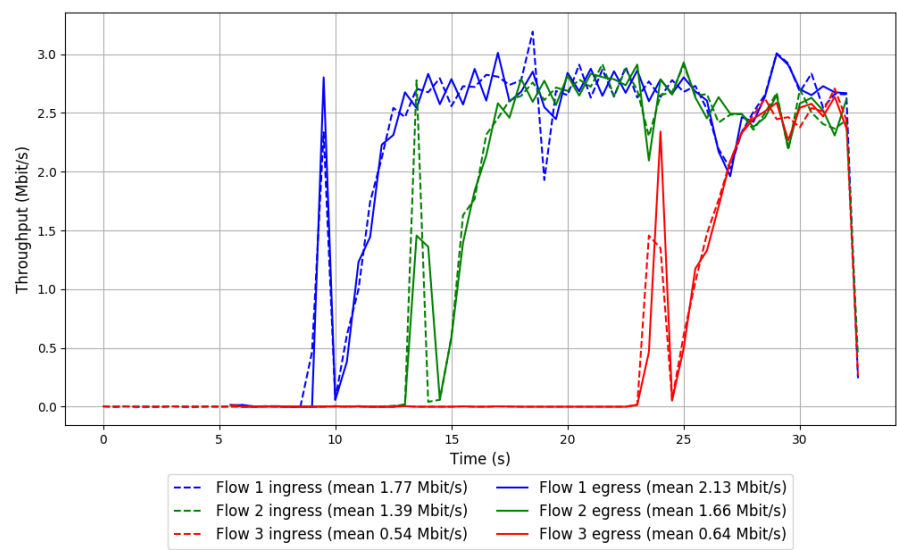


```
Run 1: Statistics of WebRTC media

Start at: 2017-09-22 07:25:39
End at: 2017-09-22 07:26:09

# Below is generated by plot.py at 2017-09-22 12:08:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.43 Mbit/s
95th percentile per-packet one-way delay: 53.941 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 53.435 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 1.66 Mbit/s
95th percentile per-packet one-way delay: 50.258 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 54.048 ms
Loss rate: 1.87%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-09-22 07:38:02

End at: 2017-09-22 07:38:32

Below is generated by plot.py at 2017-09-22 12:08:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.08 Mbit/s

95th percentile per-packet one-way delay: 53.428 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 50.577 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 53.500 ms

Loss rate: 0.66%

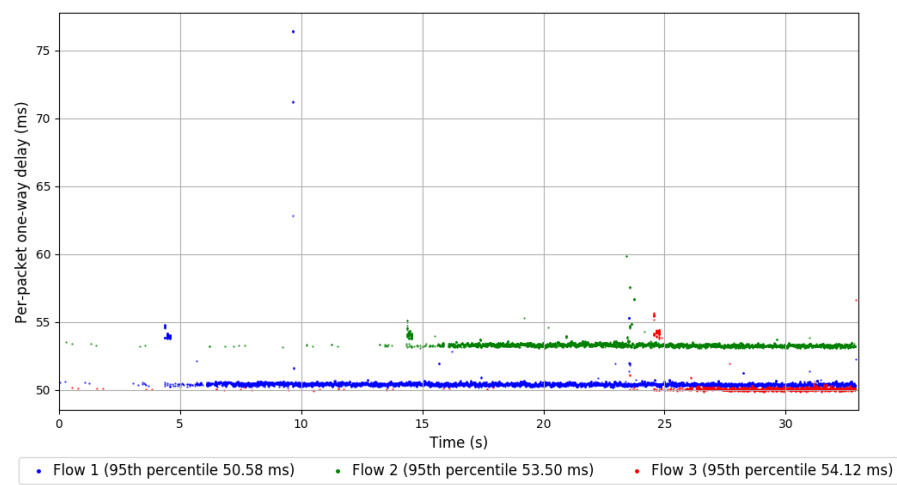
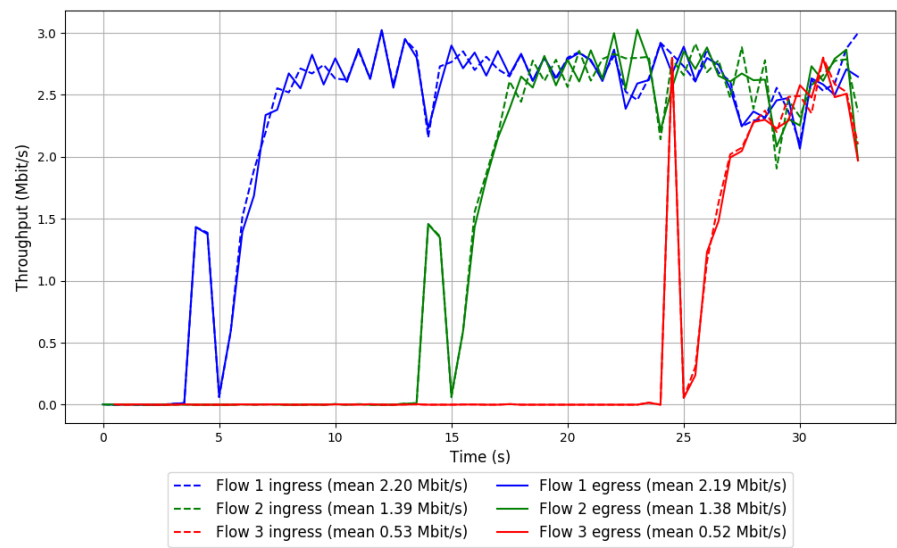
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 54.116 ms

Loss rate: 1.40%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-09-22 07:50:38

End at: 2017-09-22 07:51:08

Below is generated by plot.py at 2017-09-22 12:08:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.94 Mbit/s

95th percentile per-packet one-way delay: 54.070 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 50.533 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 54.113 ms

Loss rate: 0.66%

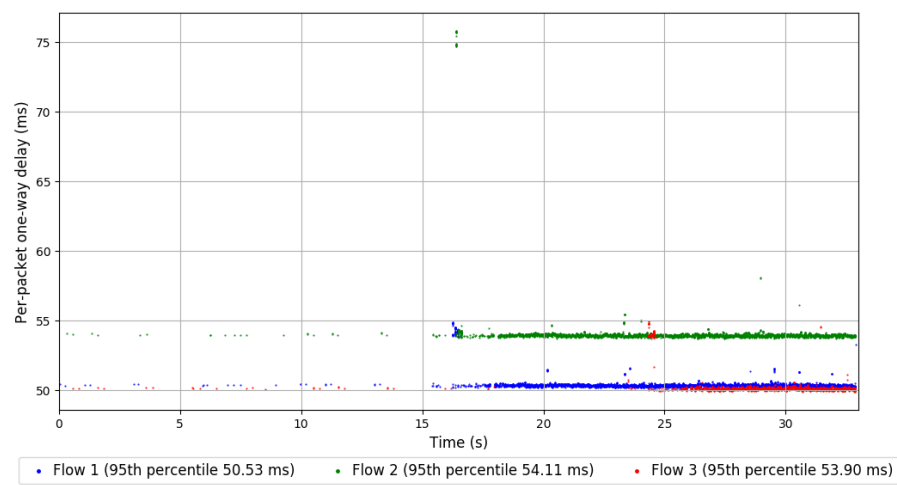
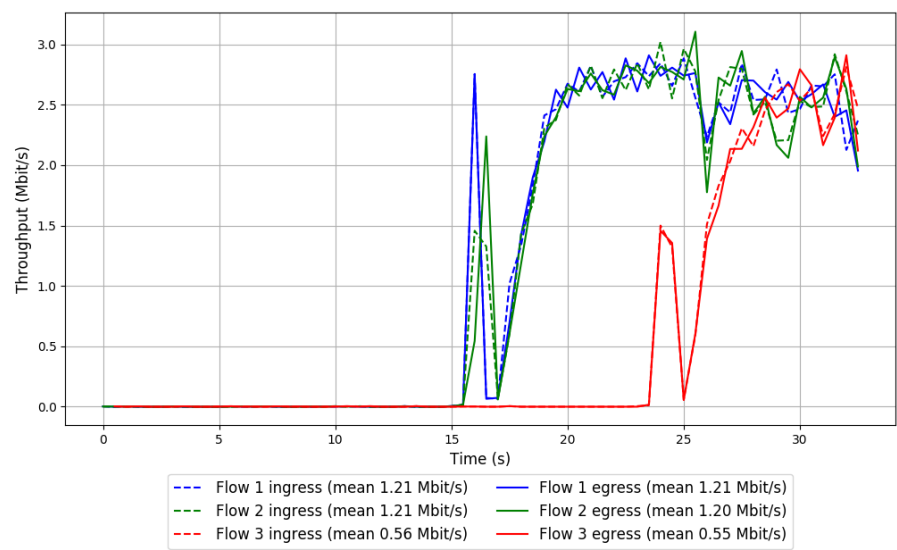
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 53.898 ms

Loss rate: 1.60%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-09-22 08:03:10

End at: 2017-09-22 08:03:40

Below is generated by plot.py at 2017-09-22 12:08:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 53.973 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 50.277 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 54.110 ms

Loss rate: 0.65%

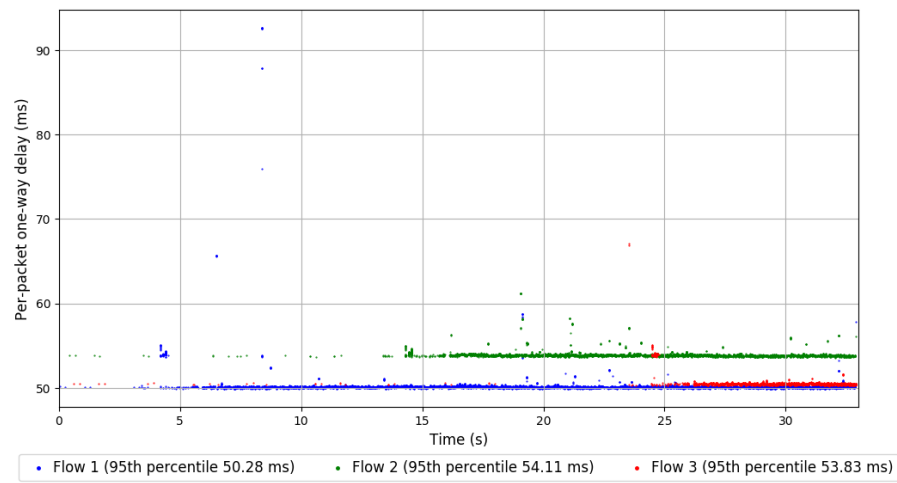
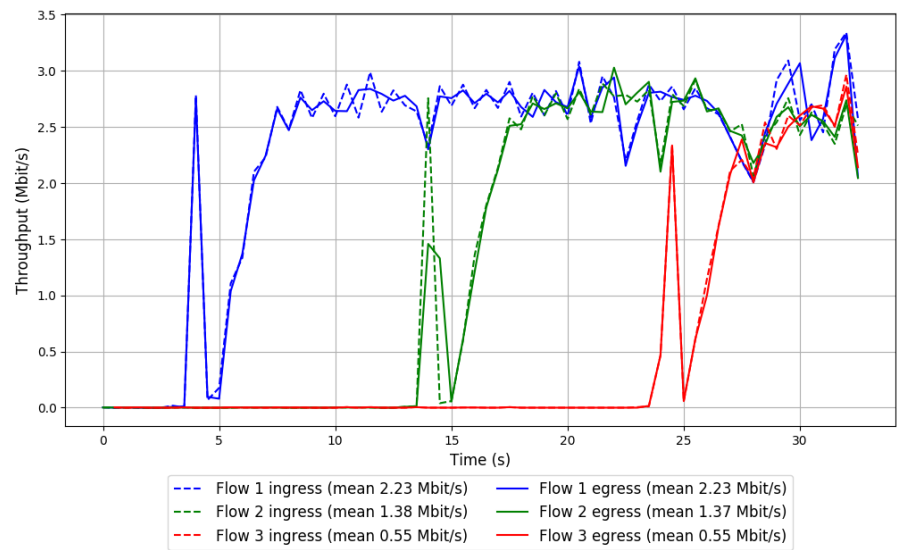
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 53.827 ms

Loss rate: 1.25%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-09-22 08:15:23

End at: 2017-09-22 08:15:53

Below is generated by plot.py at 2017-09-22 12:08:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 51.090 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 51.872 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 51.040 ms

Loss rate: 0.00%

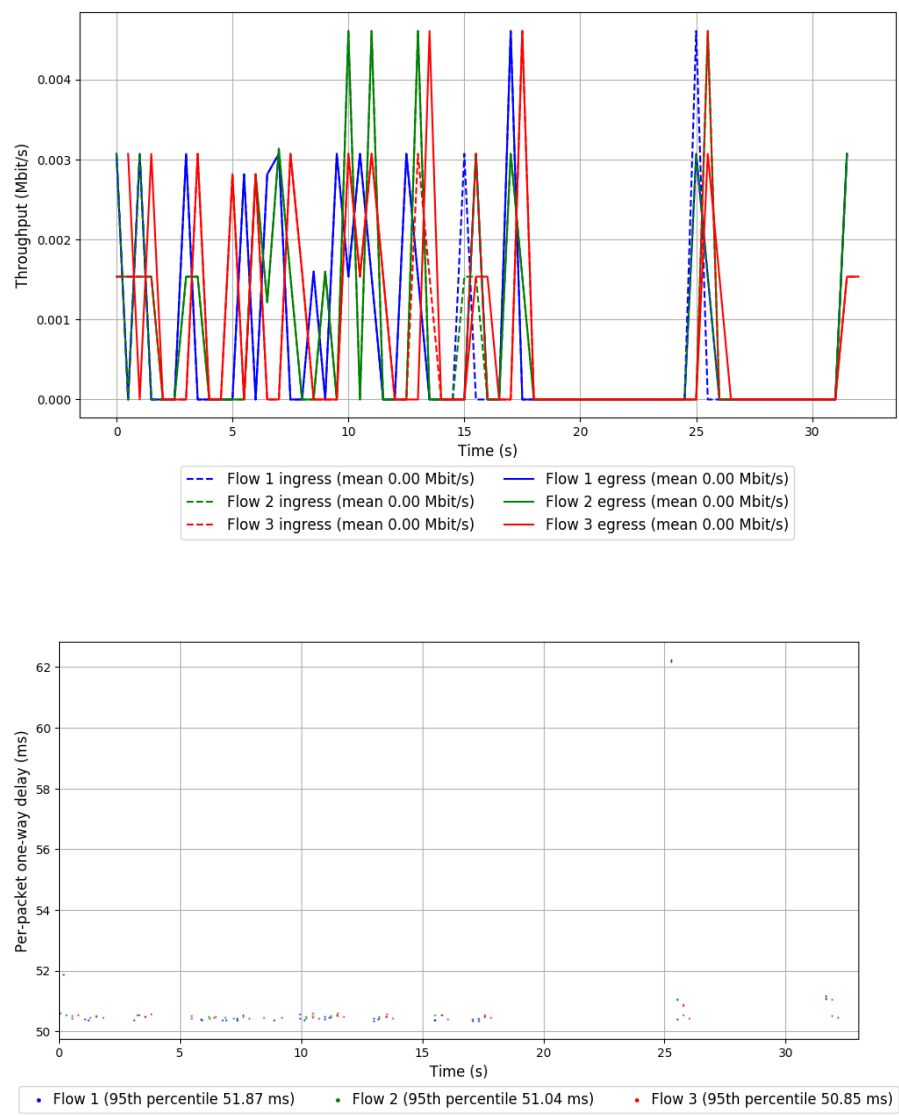
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 50.855 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-09-22 08:27:37

End at: 2017-09-22 08:28:07

Below is generated by plot.py at 2017-09-22 12:08:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.10 Mbit/s

95th percentile per-packet one-way delay: 53.967 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 53.325 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 54.028 ms

Loss rate: 0.49%

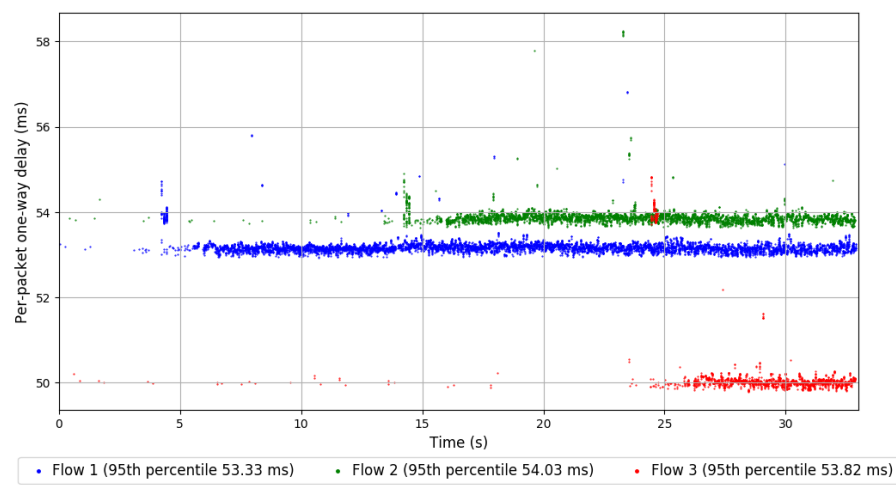
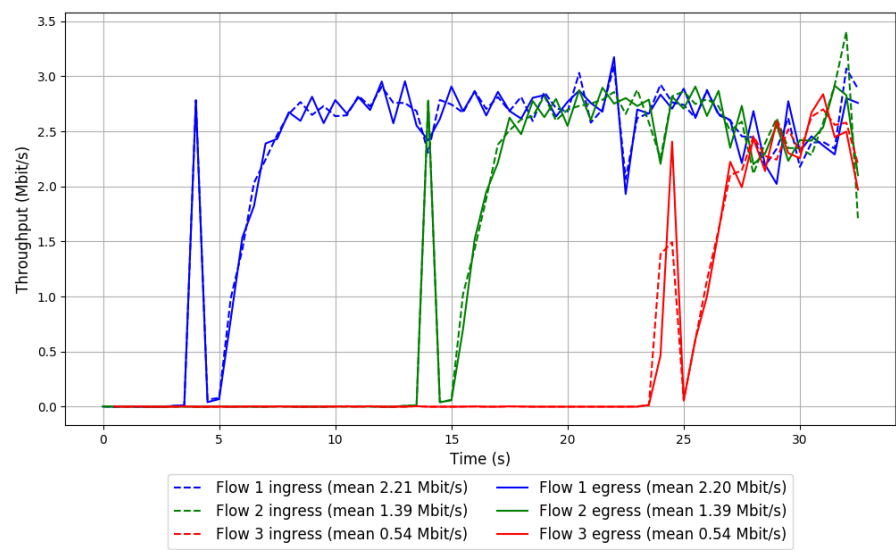
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 53.816 ms

Loss rate: 1.49%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-09-22 08:40:09

End at: 2017-09-22 08:40:39

Below is generated by plot.py at 2017-09-22 12:08:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 54.077 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 54.106 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 50.565 ms

Loss rate: 0.50%

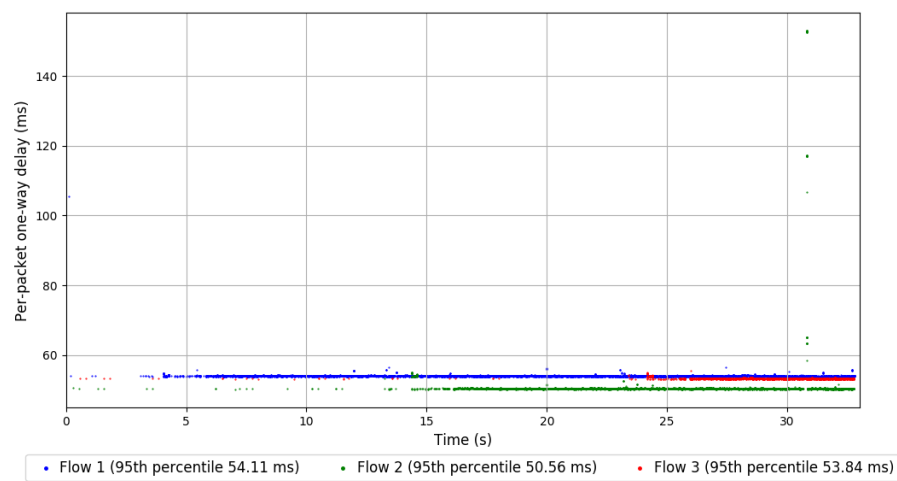
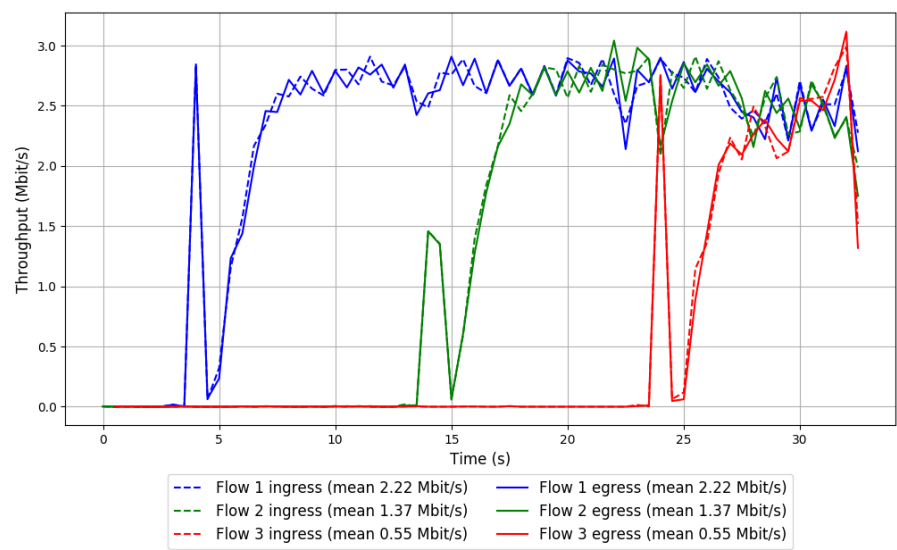
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 53.840 ms

Loss rate: 1.47%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-09-22 08:52:44

End at: 2017-09-22 08:53:14

Below is generated by plot.py at 2017-09-22 12:08:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.50 Mbit/s

95th percentile per-packet one-way delay: 54.013 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 0.98 Mbit/s

95th percentile per-packet one-way delay: 54.052 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 0.98 Mbit/s

95th percentile per-packet one-way delay: 50.213 ms

Loss rate: 1.00%

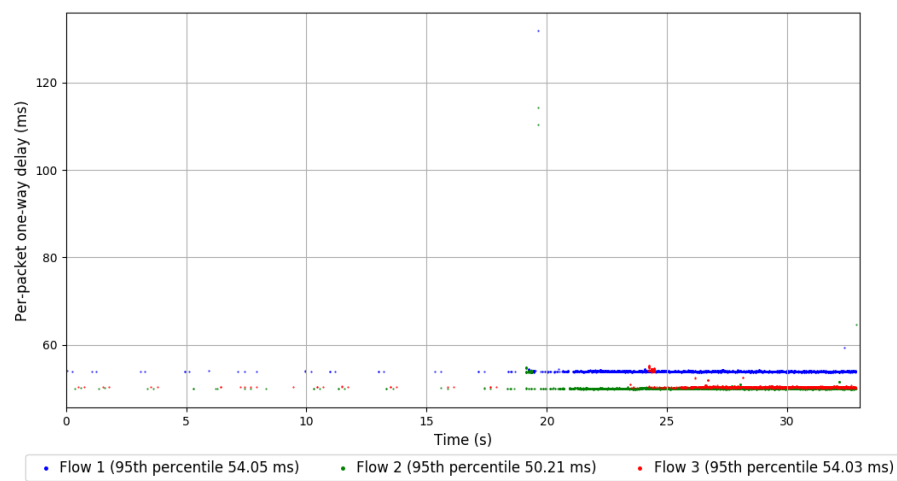
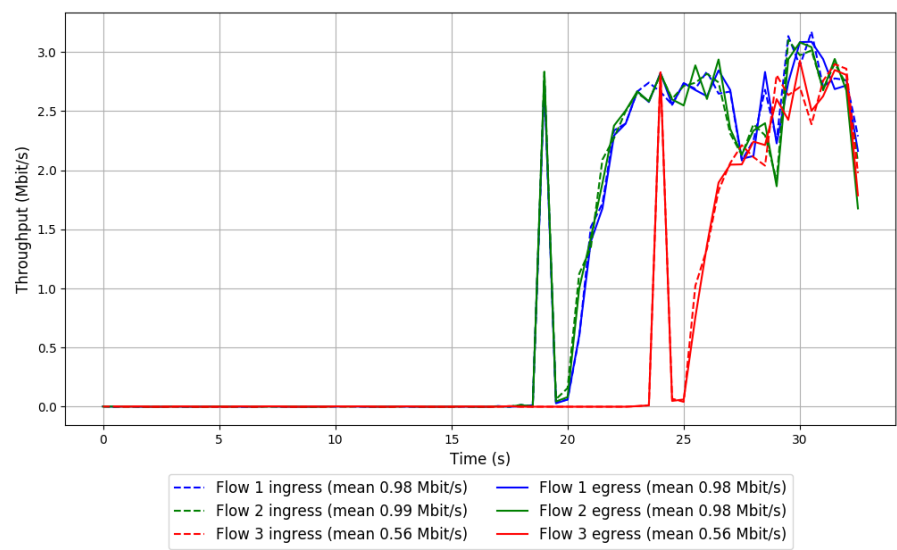
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 54.026 ms

Loss rate: 1.46%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-09-22 09:05:03

End at: 2017-09-22 09:05:33

Below is generated by plot.py at 2017-09-22 12:08:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 53.869 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 53.901 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 50.206 ms

Loss rate: 0.45%

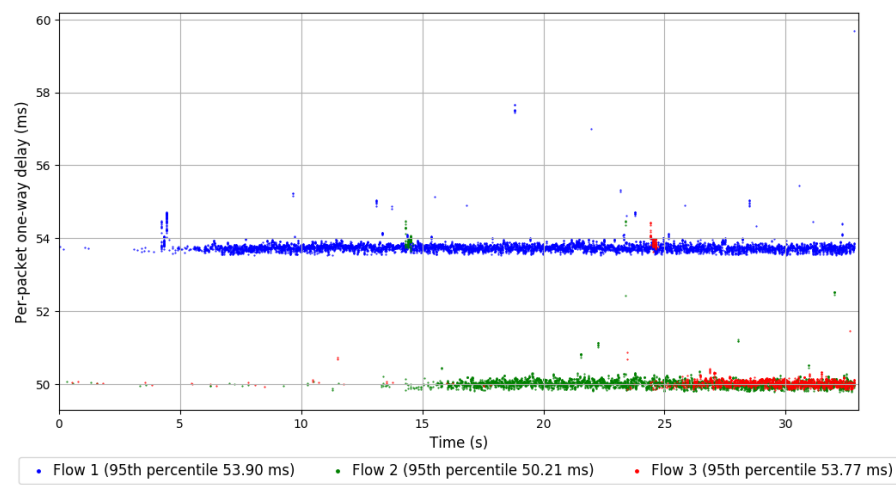
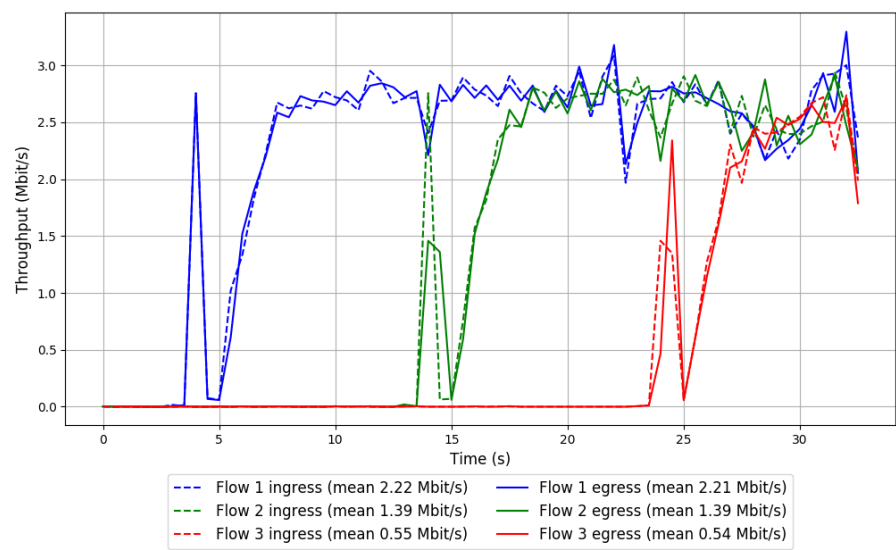
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 53.765 ms

Loss rate: 1.29%

Run 9: Report of WebRTC media — Data Link

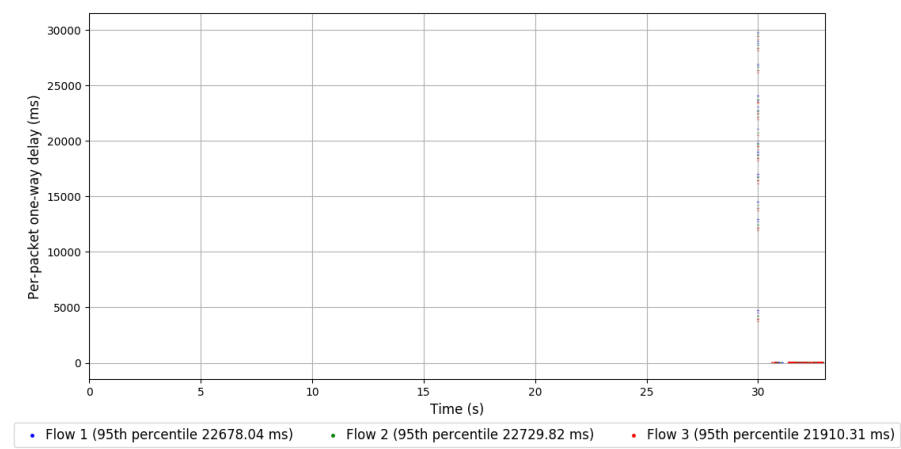
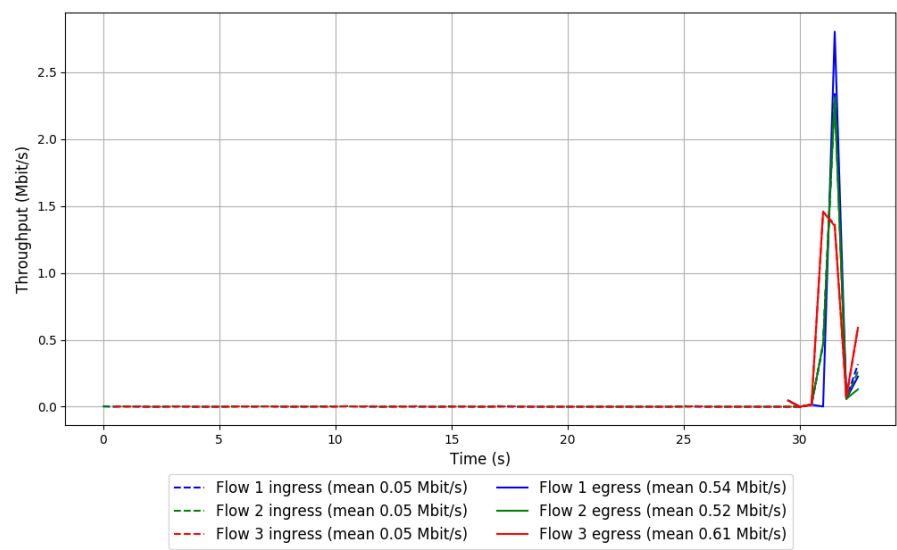


Run 10: Statistics of WebRTC media

Start at: 2017-09-22 09:17:27

End at: 2017-09-22 09:17:57

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-09-22 07:22:06

End at: 2017-09-22 07:22:36

Below is generated by plot.py at 2017-09-22 12:08:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.97 Mbit/s

95th percentile per-packet one-way delay: 54.569 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 7.40 Mbit/s

95th percentile per-packet one-way delay: 54.593 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 54.586 ms

Loss rate: 0.65%

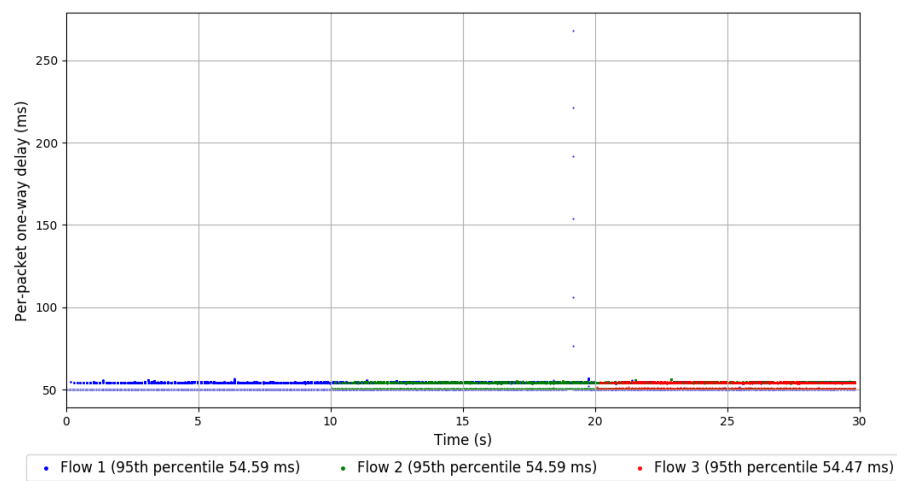
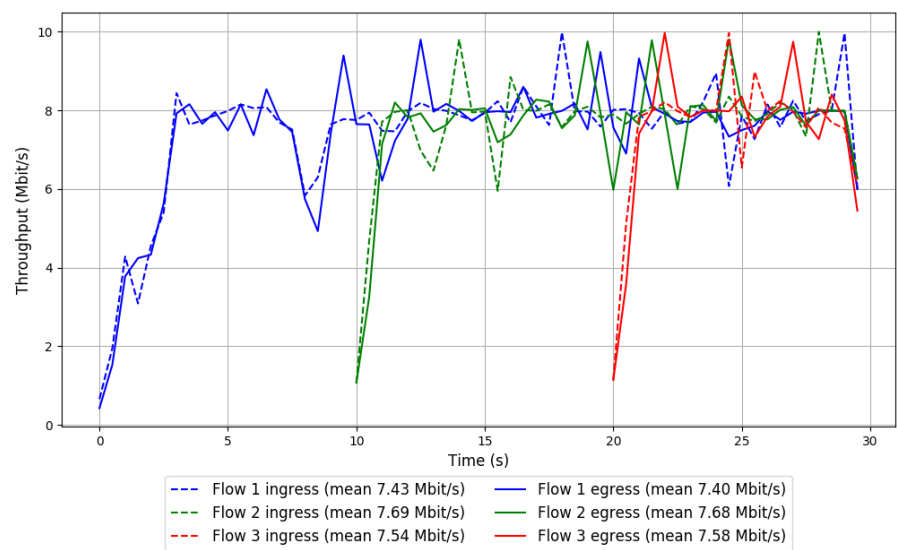
-- Flow 3:

Average throughput: 7.58 Mbit/s

95th percentile per-packet one-way delay: 54.470 ms

Loss rate: 0.57%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-09-22 07:34:42

End at: 2017-09-22 07:35:12

Below is generated by plot.py at 2017-09-22 12:08:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.02 Mbit/s

95th percentile per-packet one-way delay: 54.630 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 7.58 Mbit/s

95th percentile per-packet one-way delay: 54.632 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 7.53 Mbit/s

95th percentile per-packet one-way delay: 54.610 ms

Loss rate: 0.71%

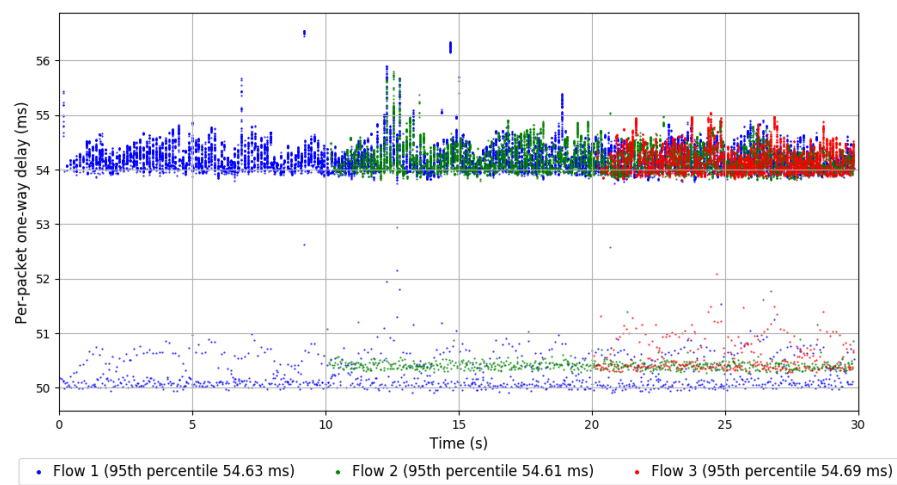
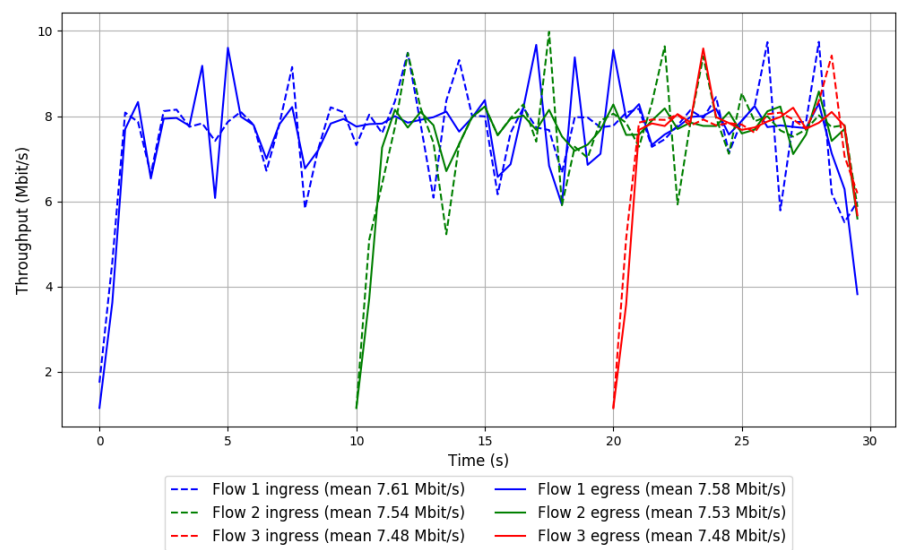
-- Flow 3:

Average throughput: 7.48 Mbit/s

95th percentile per-packet one-way delay: 54.687 ms

Loss rate: 1.11%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-09-22 07:47:04

End at: 2017-09-22 07:47:34

Below is generated by plot.py at 2017-09-22 12:08:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.92 Mbit/s

95th percentile per-packet one-way delay: 54.606 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 54.615 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 7.36 Mbit/s

95th percentile per-packet one-way delay: 54.581 ms

Loss rate: 0.63%

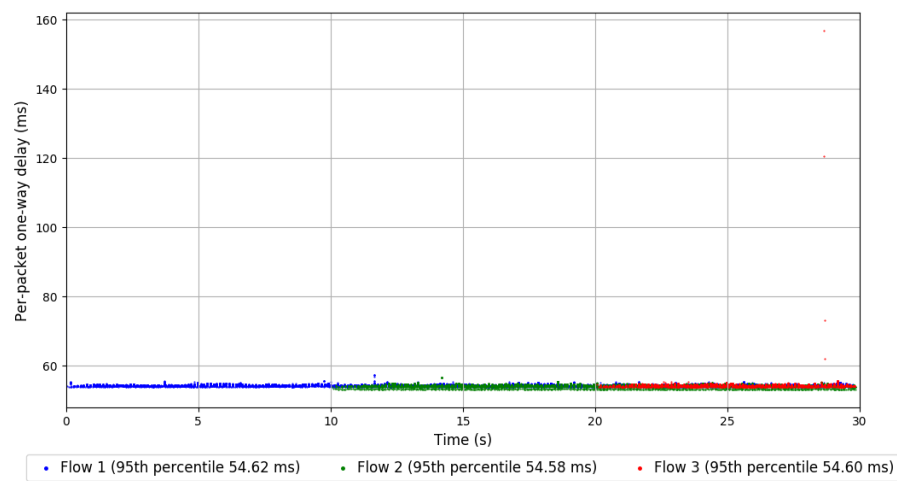
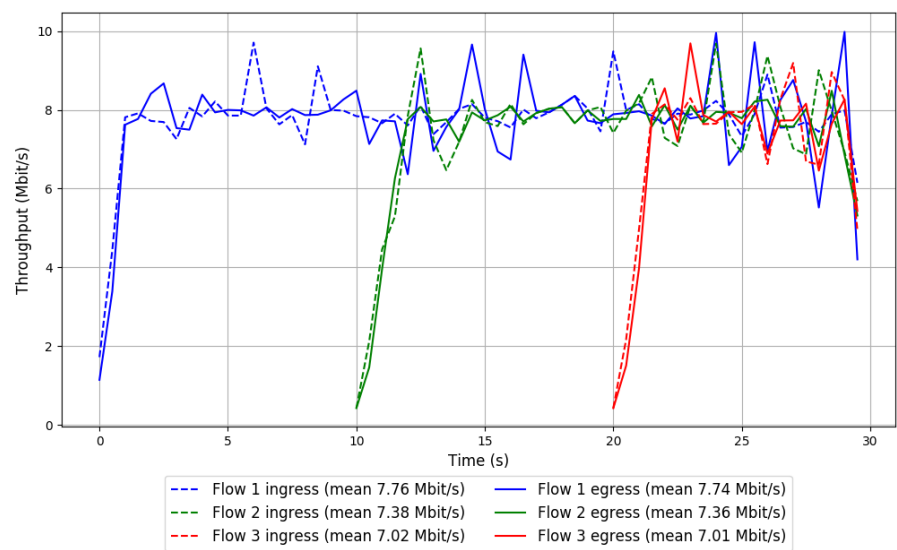
-- Flow 3:

Average throughput: 7.01 Mbit/s

95th percentile per-packet one-way delay: 54.603 ms

Loss rate: 1.33%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-09-22 07:59:39

End at: 2017-09-22 08:00:09

Below is generated by plot.py at 2017-09-22 12:08:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.35 Mbit/s

95th percentile per-packet one-way delay: 54.620 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 54.493 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 54.666 ms

Loss rate: 0.84%

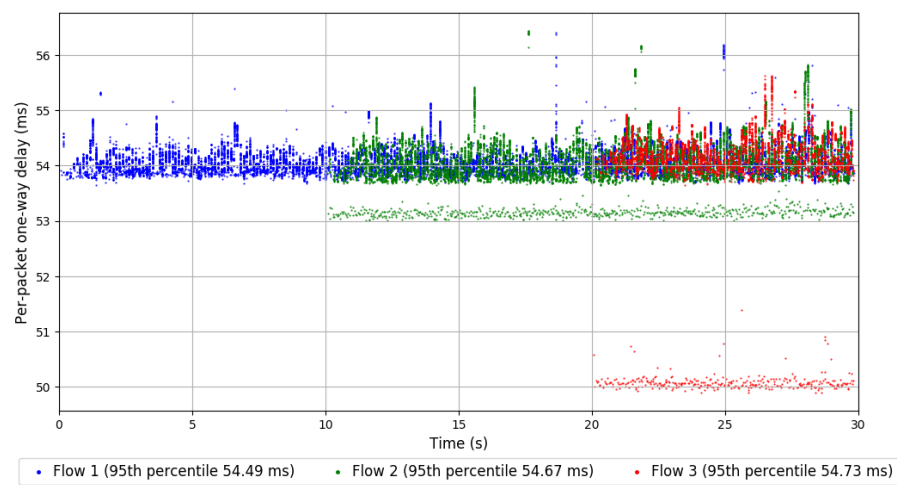
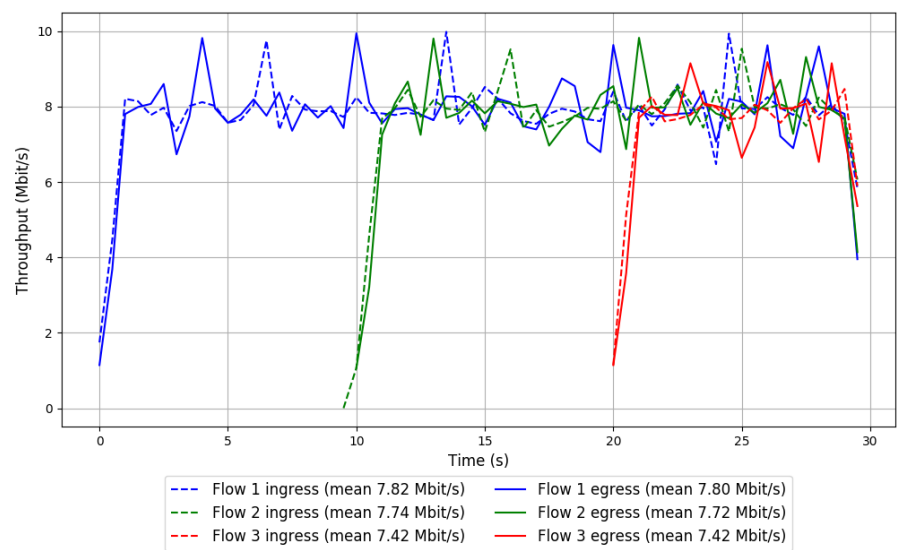
-- Flow 3:

Average throughput: 7.42 Mbit/s

95th percentile per-packet one-way delay: 54.730 ms

Loss rate: 1.23%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-09-22 08:11:49

End at: 2017-09-22 08:12:19

Below is generated by plot.py at 2017-09-22 12:08:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.16 Mbit/s

95th percentile per-packet one-way delay: 54.534 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 7.65 Mbit/s

95th percentile per-packet one-way delay: 54.549 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 7.61 Mbit/s

95th percentile per-packet one-way delay: 54.505 ms

Loss rate: 0.35%

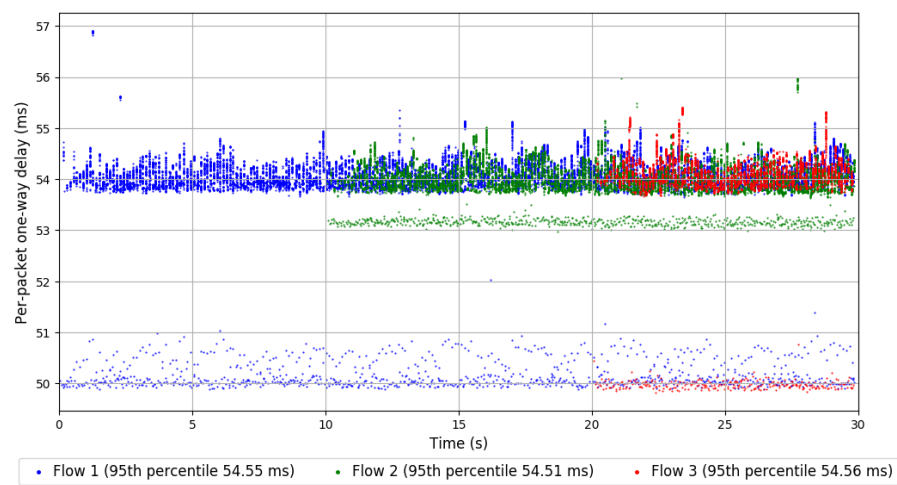
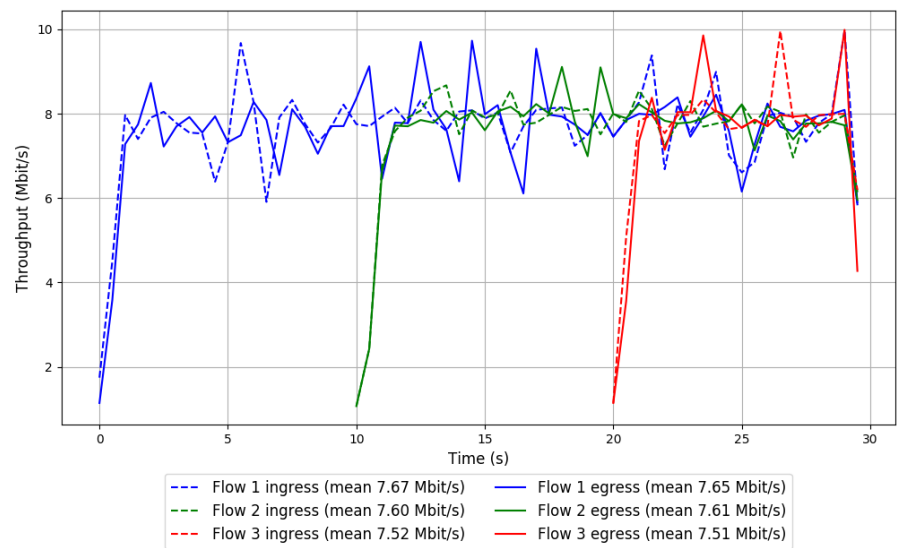
-- Flow 3:

Average throughput: 7.51 Mbit/s

95th percentile per-packet one-way delay: 54.562 ms

Loss rate: 1.30%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-09-22 08:24:17

End at: 2017-09-22 08:24:47

Below is generated by plot.py at 2017-09-22 12:08:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.18 Mbit/s

95th percentile per-packet one-way delay: 54.761 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 54.732 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 7.57 Mbit/s

95th percentile per-packet one-way delay: 54.804 ms

Loss rate: 0.65%

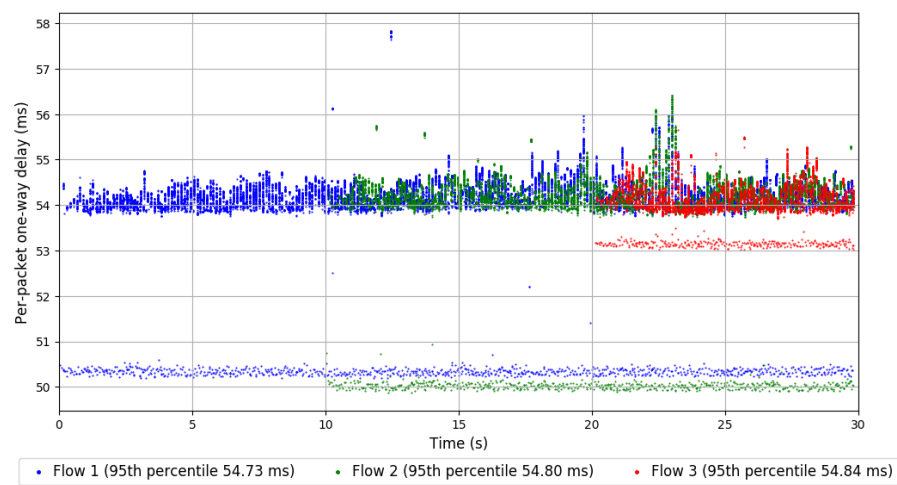
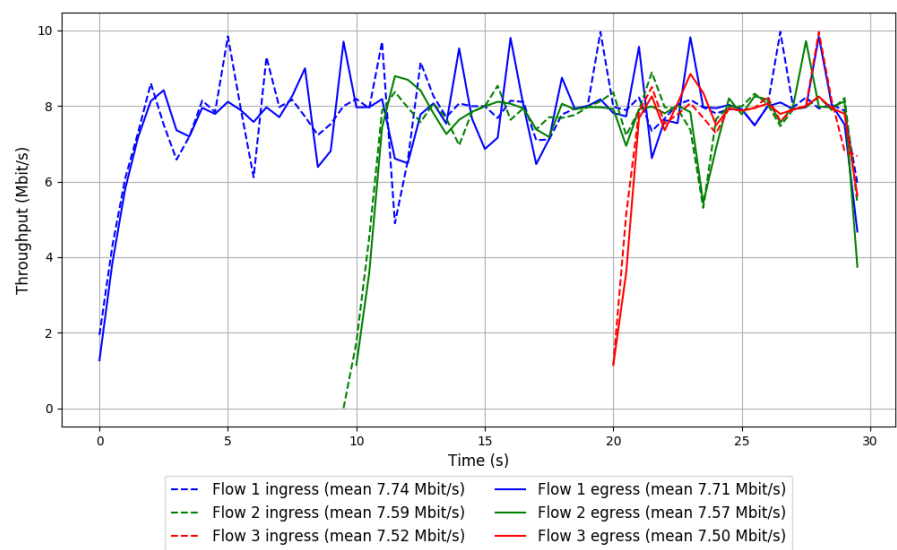
-- Flow 3:

Average throughput: 7.50 Mbit/s

95th percentile per-packet one-way delay: 54.838 ms

Loss rate: 1.47%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-09-22 08:36:35

End at: 2017-09-22 08:37:05

Below is generated by plot.py at 2017-09-22 12:08:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.25 Mbit/s

95th percentile per-packet one-way delay: 54.735 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 54.677 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 54.862 ms

Loss rate: 0.71%

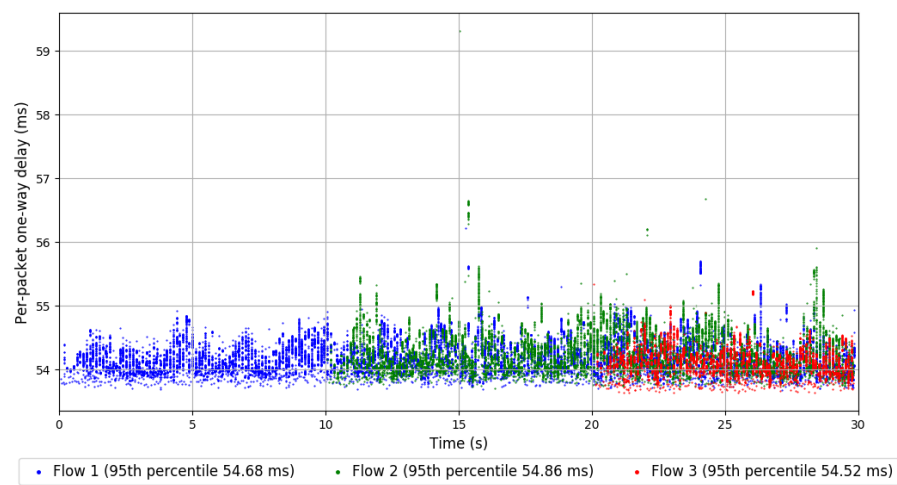
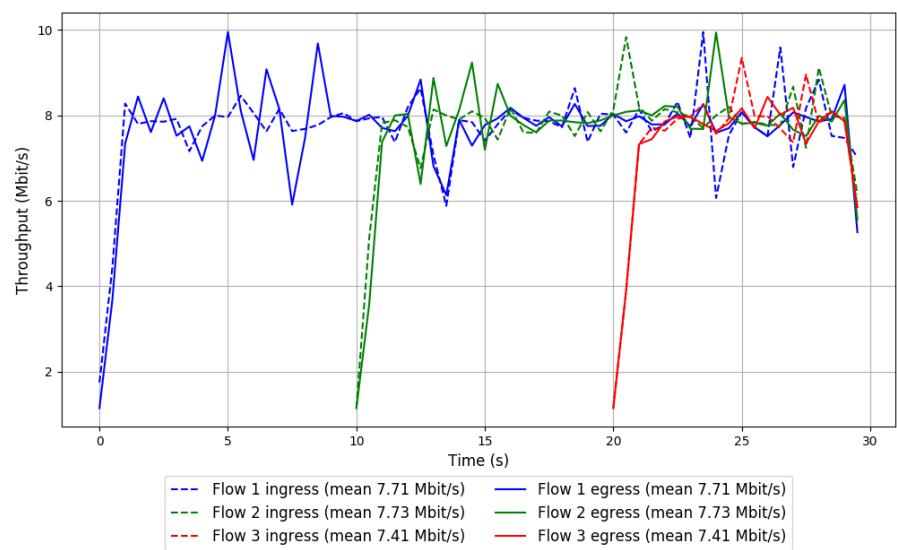
-- Flow 3:

Average throughput: 7.41 Mbit/s

95th percentile per-packet one-way delay: 54.517 ms

Loss rate: 1.33%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-09-22 08:49:13

End at: 2017-09-22 08:49:43

Below is generated by plot.py at 2017-09-22 12:08:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.33 Mbit/s

95th percentile per-packet one-way delay: 54.481 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 54.502 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 7.57 Mbit/s

95th percentile per-packet one-way delay: 54.415 ms

Loss rate: 1.01%

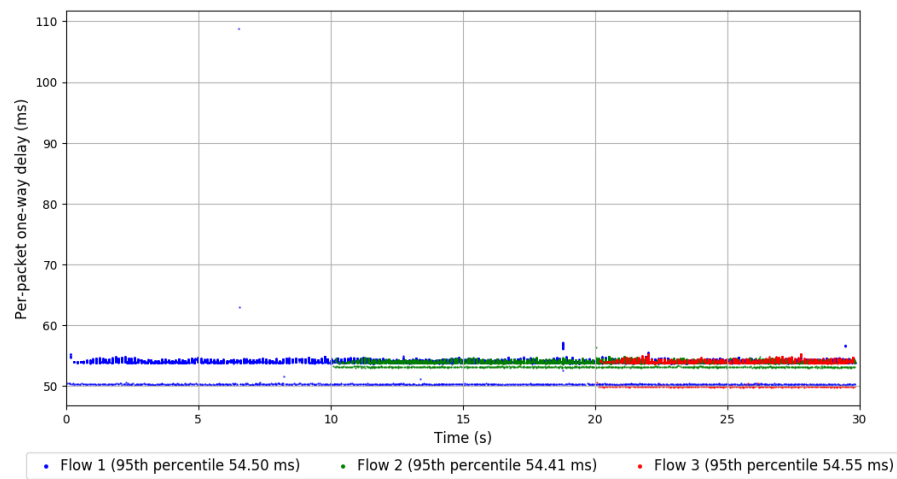
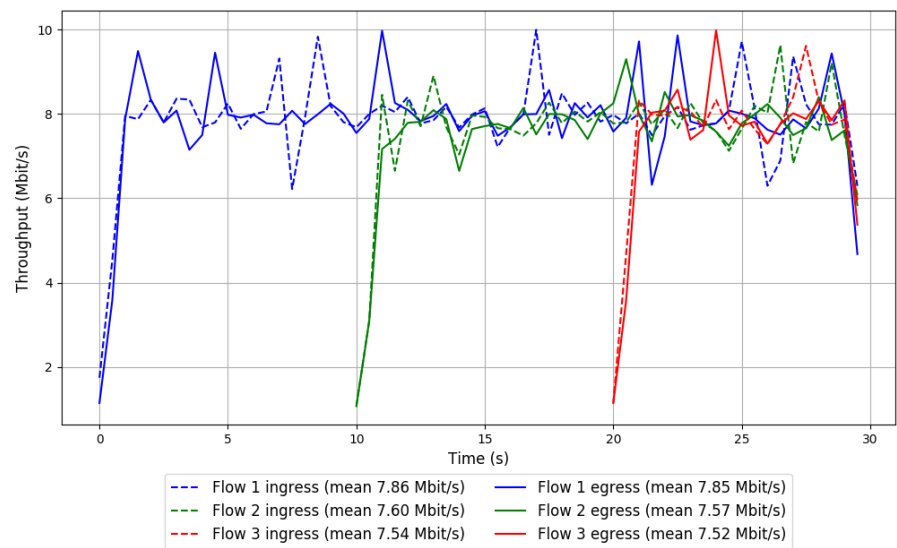
-- Flow 3:

Average throughput: 7.52 Mbit/s

95th percentile per-packet one-way delay: 54.553 ms

Loss rate: 1.54%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-09-22 09:01:40

End at: 2017-09-22 09:02:10

Below is generated by plot.py at 2017-09-22 12:08:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.18 Mbit/s

95th percentile per-packet one-way delay: 54.913 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 54.905 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 7.65 Mbit/s

95th percentile per-packet one-way delay: 54.992 ms

Loss rate: 0.25%

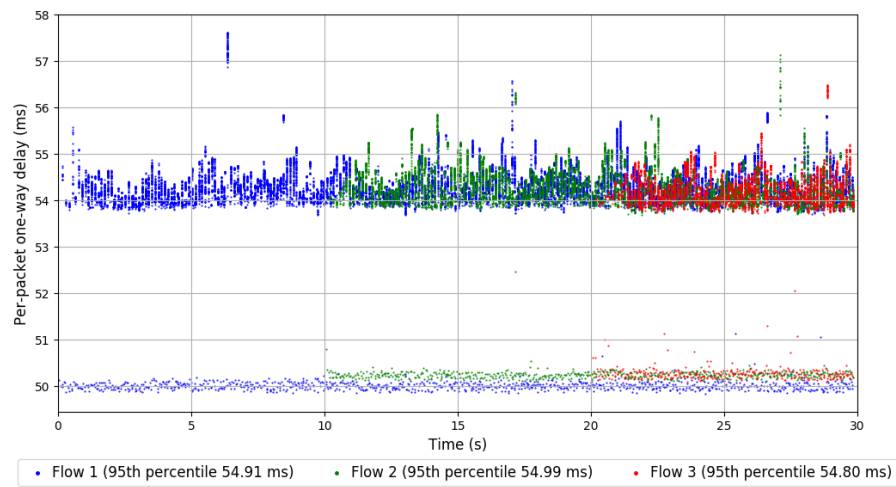
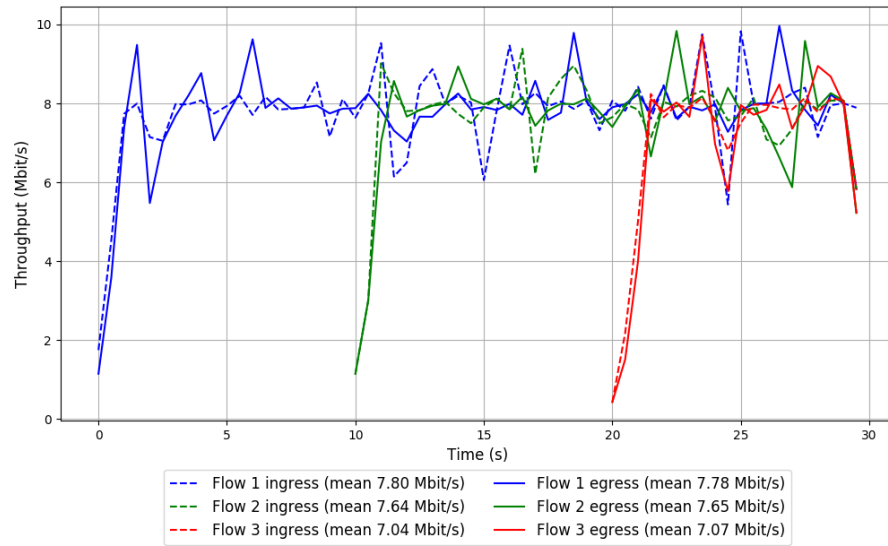
-- Flow 3:

Average throughput: 7.07 Mbit/s

95th percentile per-packet one-way delay: 54.799 ms

Loss rate: 0.63%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-09-22 09:13:54

End at: 2017-09-22 09:14:24

Below is generated by plot.py at 2017-09-22 12:08:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.25 Mbit/s

95th percentile per-packet one-way delay: 54.842 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 54.931 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 54.658 ms

Loss rate: 0.62%

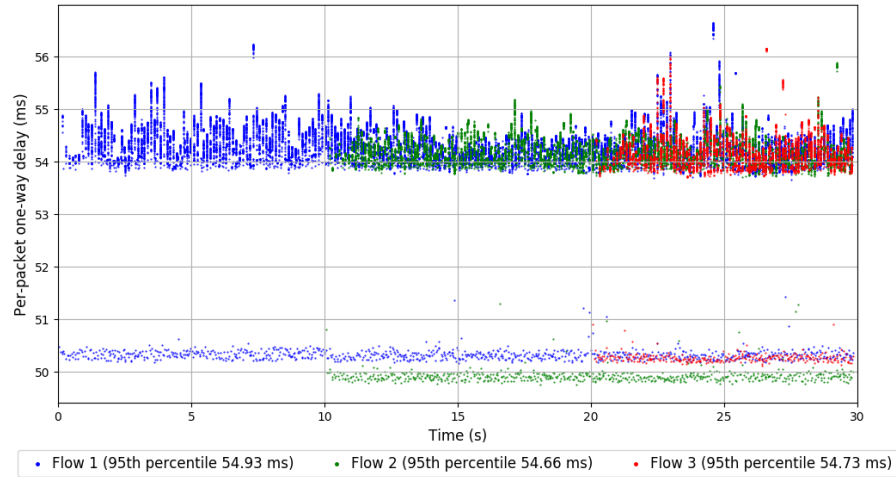
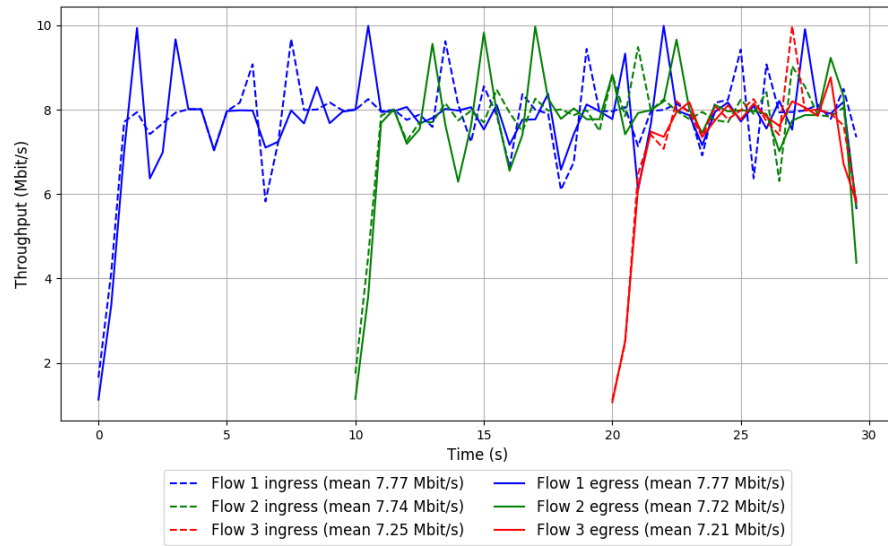
-- Flow 3:

Average throughput: 7.21 Mbit/s

95th percentile per-packet one-way delay: 54.730 ms

Loss rate: 1.36%

Run 10: Report of Sprout — Data Link

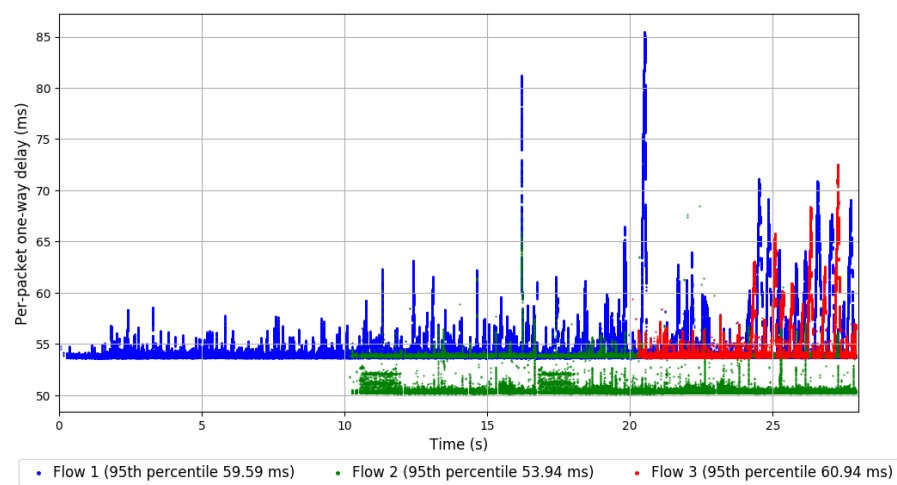
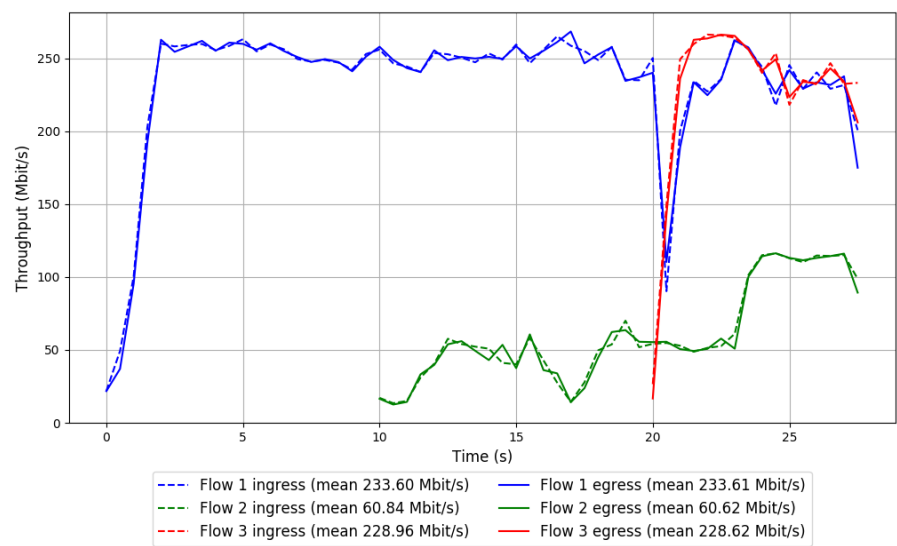


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-09-22 07:27:24
End at: 2017-09-22 07:27:54

# Below is generated by plot.py at 2017-09-22 12:11:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 336.63 Mbit/s
95th percentile per-packet one-way delay: 59.348 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 233.61 Mbit/s
95th percentile per-packet one-way delay: 59.587 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 60.62 Mbit/s
95th percentile per-packet one-way delay: 53.941 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 228.62 Mbit/s
95th percentile per-packet one-way delay: 60.941 ms
Loss rate: 1.52%
```


Run 1: Report of TaoVA-100x — Data Link

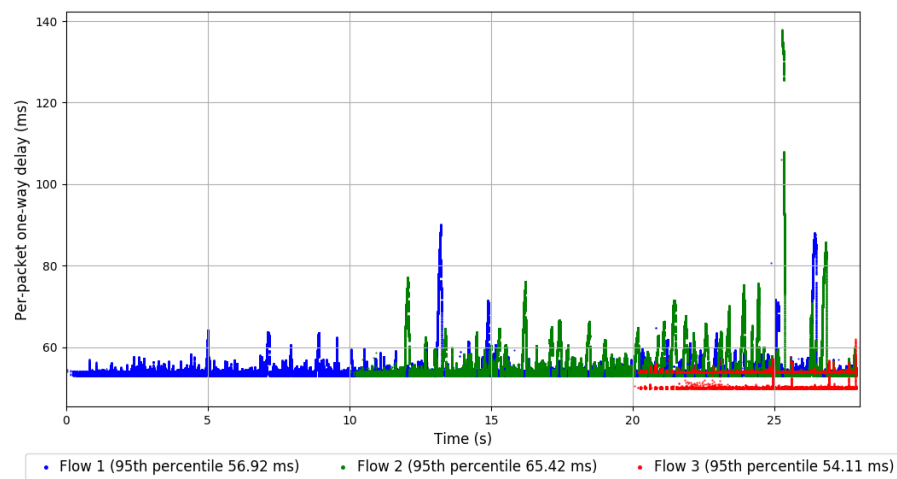
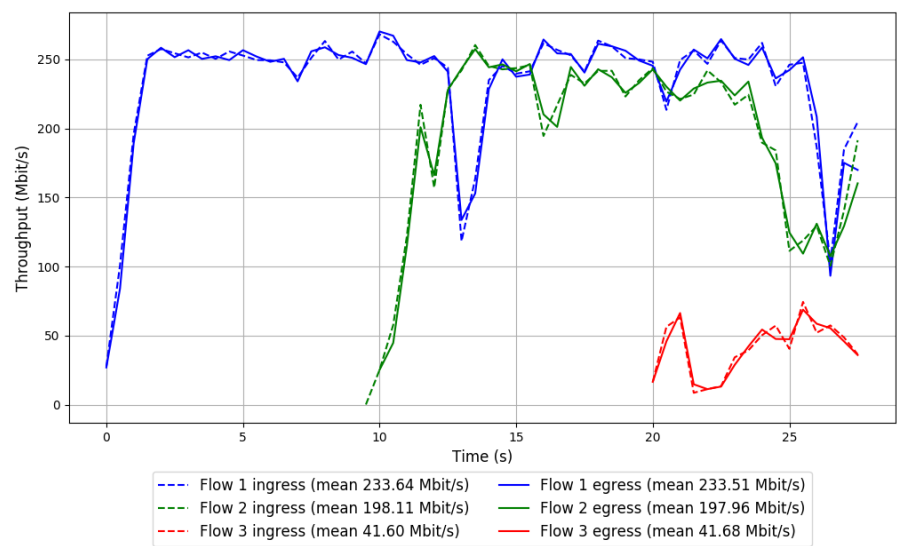


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-09-22 07:39:46
End at: 2017-09-22 07:40:16

# Below is generated by plot.py at 2017-09-22 12:12:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 372.09 Mbit/s
95th percentile per-packet one-way delay: 61.304 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 233.51 Mbit/s
95th percentile per-packet one-way delay: 56.922 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 197.96 Mbit/s
95th percentile per-packet one-way delay: 65.423 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 41.68 Mbit/s
95th percentile per-packet one-way delay: 54.109 ms
Loss rate: 1.10%
```

Run 2: Report of TaoVA-100x — Data Link

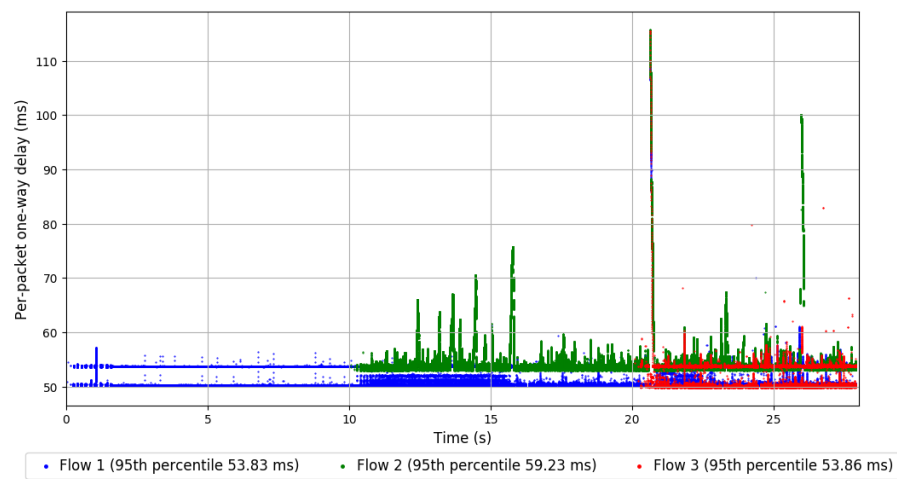
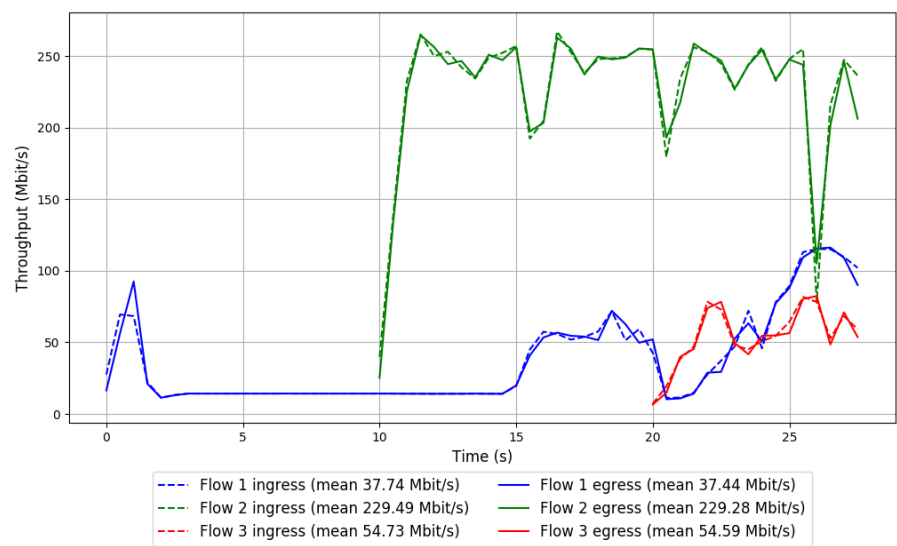


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-09-22 07:52:20
End at: 2017-09-22 07:52:50

# Below is generated by plot.py at 2017-09-22 12:12:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 199.60 Mbit/s
95th percentile per-packet one-way delay: 57.314 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 37.44 Mbit/s
95th percentile per-packet one-way delay: 53.831 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 229.28 Mbit/s
95th percentile per-packet one-way delay: 59.230 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 54.59 Mbit/s
95th percentile per-packet one-way delay: 53.861 ms
Loss rate: 1.61%
```

Run 3: Report of TaoVA-100x — Data Link



Run 4: Statistics of TaoVA-100x

Start at: 2017-09-22 08:04:53

End at: 2017-09-22 08:05:23

Below is generated by plot.py at 2017-09-22 12:12:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.55 Mbit/s

95th percentile per-packet one-way delay: 68.575 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 19.52 Mbit/s

95th percentile per-packet one-way delay: 53.780 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 14.16 Mbit/s

95th percentile per-packet one-way delay: 53.778 ms

Loss rate: 0.61%

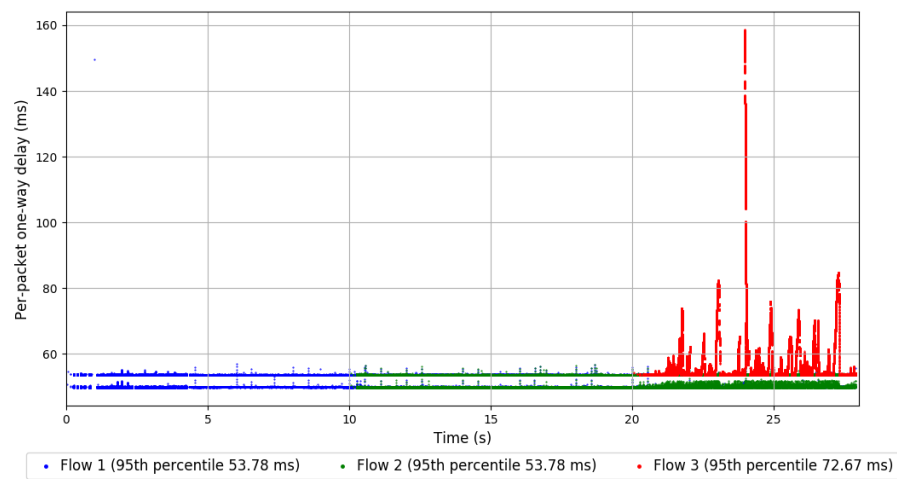
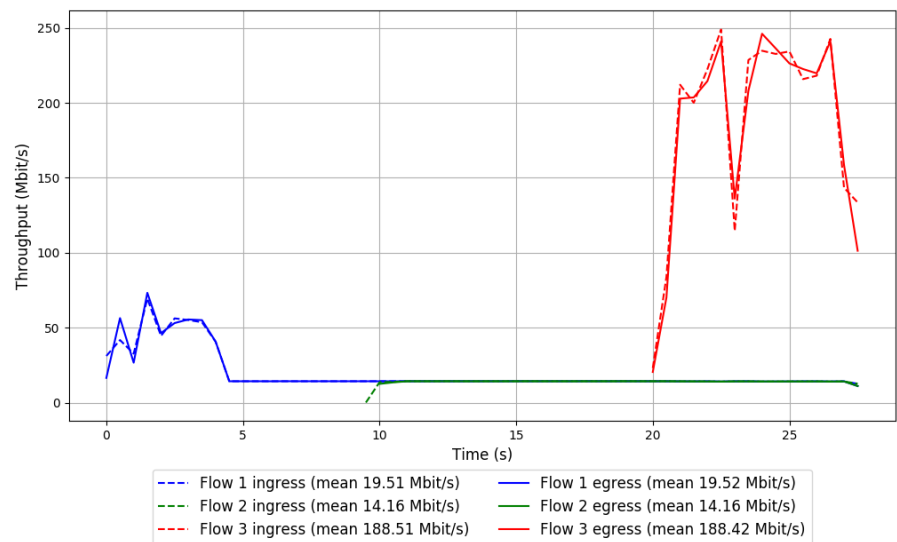
-- Flow 3:

Average throughput: 188.42 Mbit/s

95th percentile per-packet one-way delay: 72.668 ms

Loss rate: 1.35%

Run 4: Report of TaoVA-100x — Data Link



Run 5: Statistics of TaoVA-100x

Start at: 2017-09-22 08:17:06

End at: 2017-09-22 08:17:36

Below is generated by plot.py at 2017-09-22 12:12:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 192.99 Mbit/s

95th percentile per-packet one-way delay: 63.123 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 35.21 Mbit/s

95th percentile per-packet one-way delay: 53.794 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 207.32 Mbit/s

95th percentile per-packet one-way delay: 67.340 ms

Loss rate: 0.58%

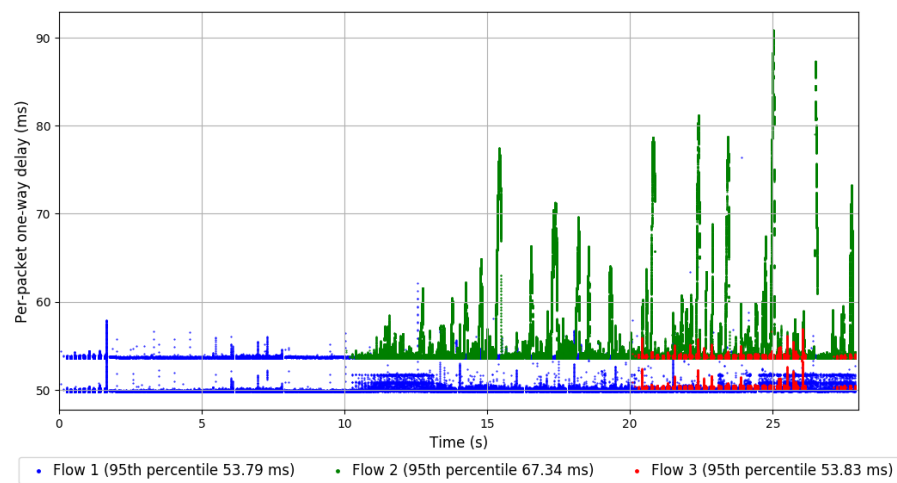
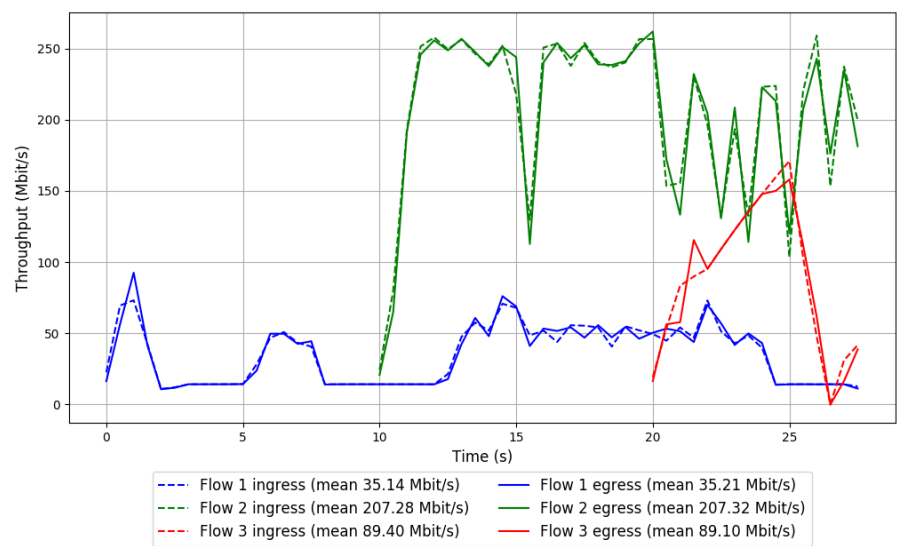
-- Flow 3:

Average throughput: 89.10 Mbit/s

95th percentile per-packet one-way delay: 53.833 ms

Loss rate: 1.25%

Run 5: Report of TaoVA-100x — Data Link



Run 6: Statistics of TaoVA-100x

Start at: 2017-09-22 08:29:20

End at: 2017-09-22 08:29:50

Below is generated by plot.py at 2017-09-22 12:12:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 313.77 Mbit/s

95th percentile per-packet one-way delay: 56.818 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 244.46 Mbit/s

95th percentile per-packet one-way delay: 56.779 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 14.25 Mbit/s

95th percentile per-packet one-way delay: 53.869 ms

Loss rate: 0.58%

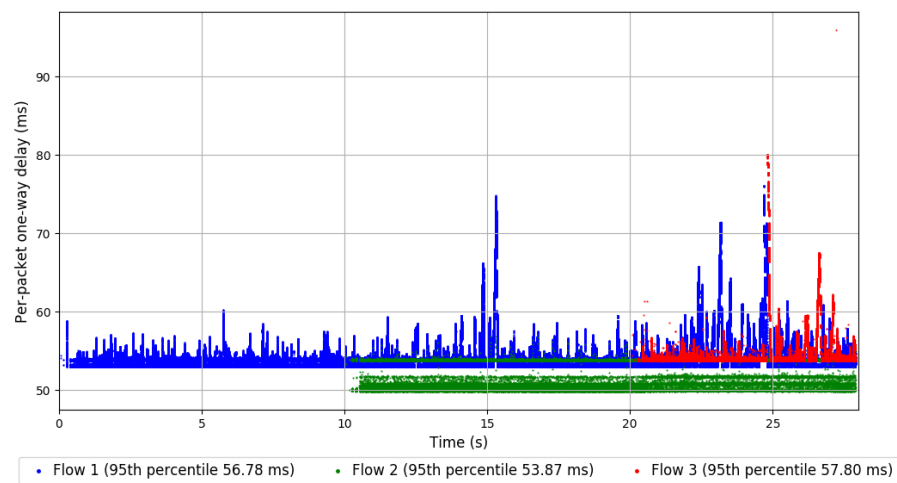
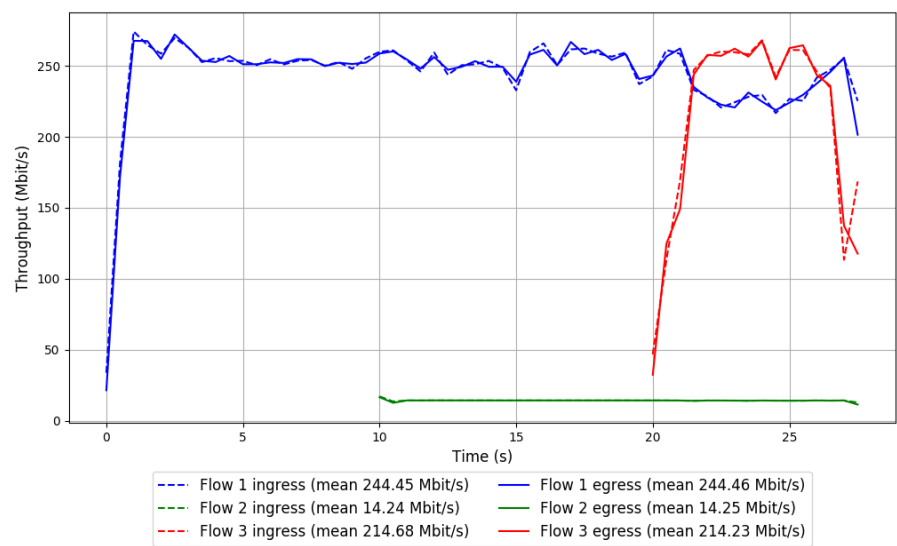
-- Flow 3:

Average throughput: 214.23 Mbit/s

95th percentile per-packet one-way delay: 57.803 ms

Loss rate: 1.59%

Run 6: Report of TaoVA-100x — Data Link



Run 7: Statistics of TaoVA-100x

Start at: 2017-09-22 08:41:52

End at: 2017-09-22 08:42:22

Below is generated by plot.py at 2017-09-22 12:12:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 248.29 Mbit/s

95th percentile per-packet one-way delay: 62.883 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 219.64 Mbit/s

95th percentile per-packet one-way delay: 63.582 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 20.33 Mbit/s

95th percentile per-packet one-way delay: 53.891 ms

Loss rate: 0.41%

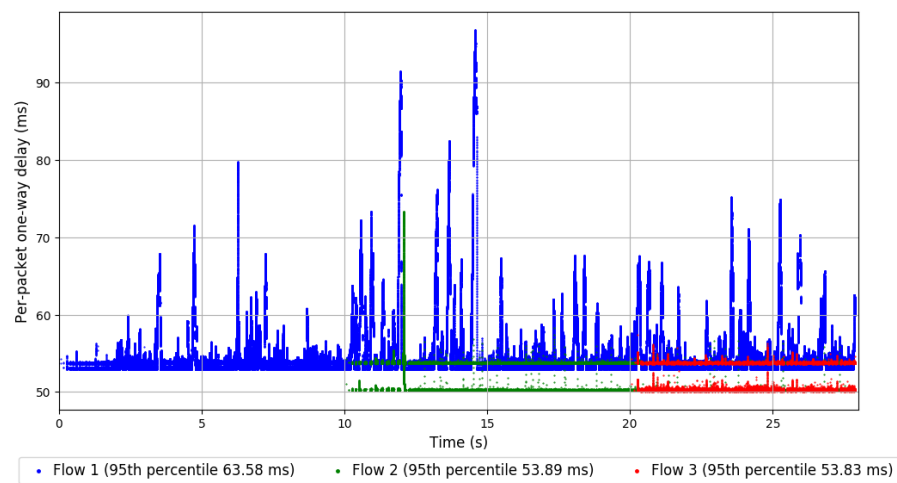
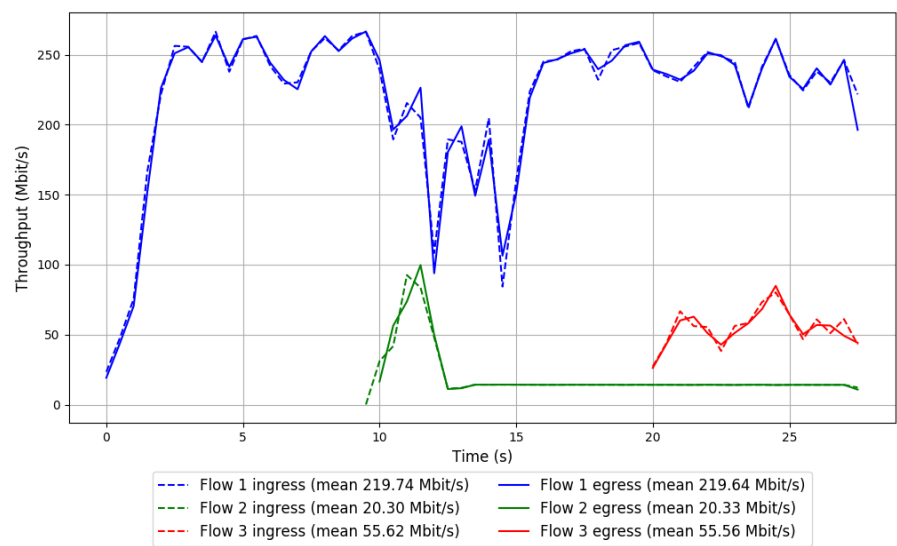
-- Flow 3:

Average throughput: 55.56 Mbit/s

95th percentile per-packet one-way delay: 53.833 ms

Loss rate: 1.43%

Run 7: Report of TaoVA-100x — Data Link



Run 8: Statistics of TaoVA-100x

Start at: 2017-09-22 08:54:27

End at: 2017-09-22 08:54:57

Below is generated by plot.py at 2017-09-22 12:14:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 220.67 Mbit/s

95th percentile per-packet one-way delay: 55.910 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 19.66 Mbit/s

95th percentile per-packet one-way delay: 54.347 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 238.78 Mbit/s

95th percentile per-packet one-way delay: 56.517 ms

Loss rate: 0.65%

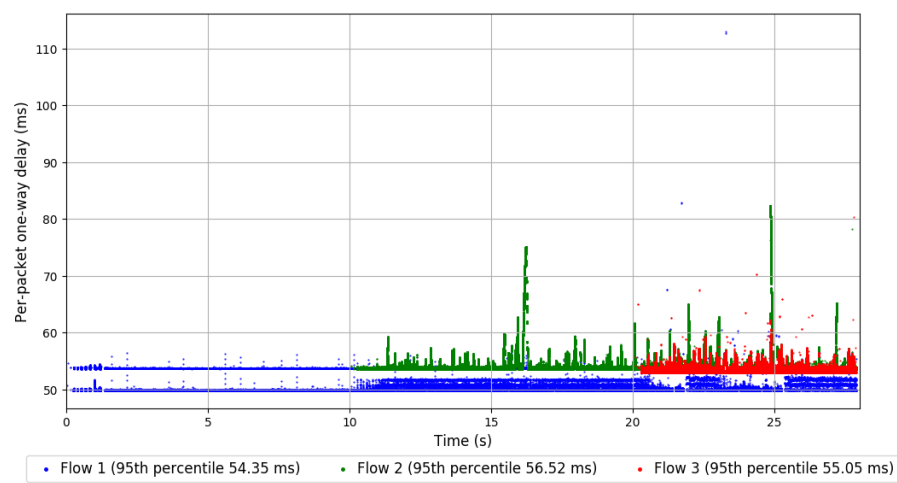
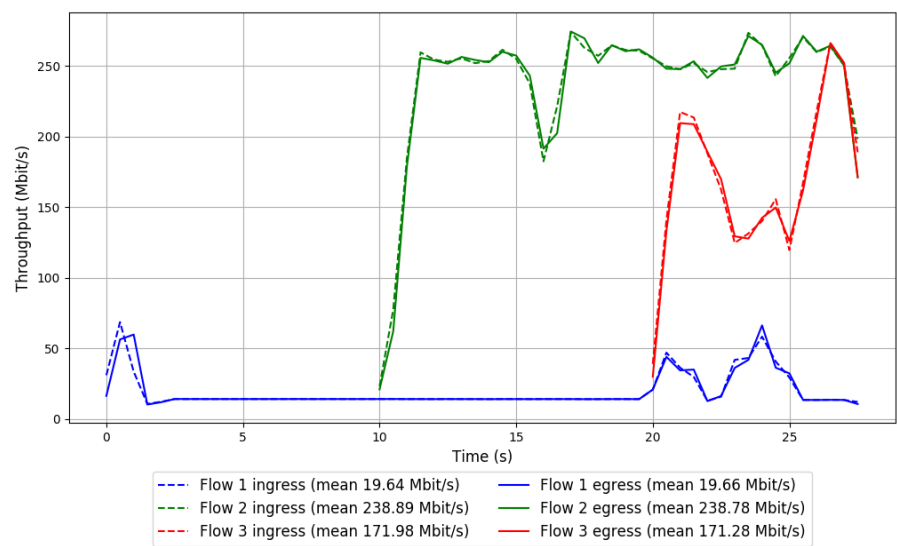
-- Flow 3:

Average throughput: 171.28 Mbit/s

95th percentile per-packet one-way delay: 55.054 ms

Loss rate: 1.65%

Run 8: Report of TaoVA-100x — Data Link



Run 9: Statistics of TaoVA-100x

Start at: 2017-09-22 09:06:47

End at: 2017-09-22 09:07:17

Below is generated by plot.py at 2017-09-22 12:15:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 274.25 Mbit/s

95th percentile per-packet one-way delay: 57.285 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 236.17 Mbit/s

95th percentile per-packet one-way delay: 57.908 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 14.24 Mbit/s

95th percentile per-packet one-way delay: 53.834 ms

Loss rate: 0.59%

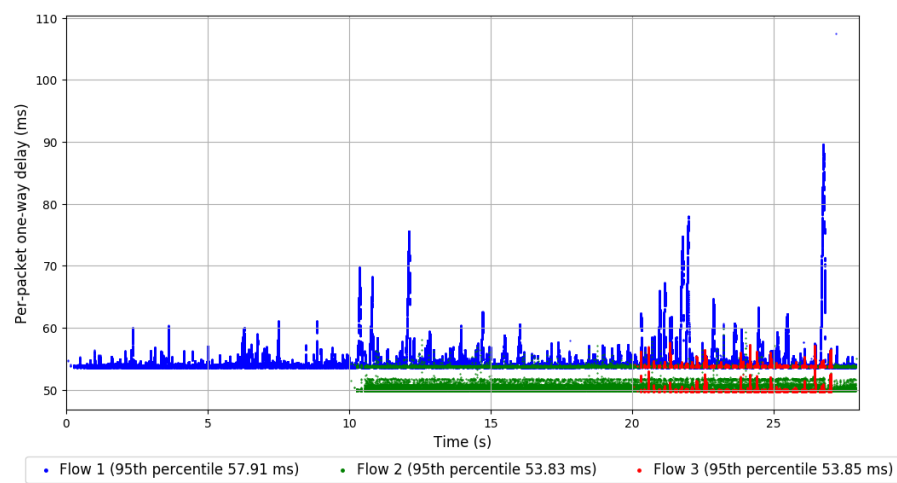
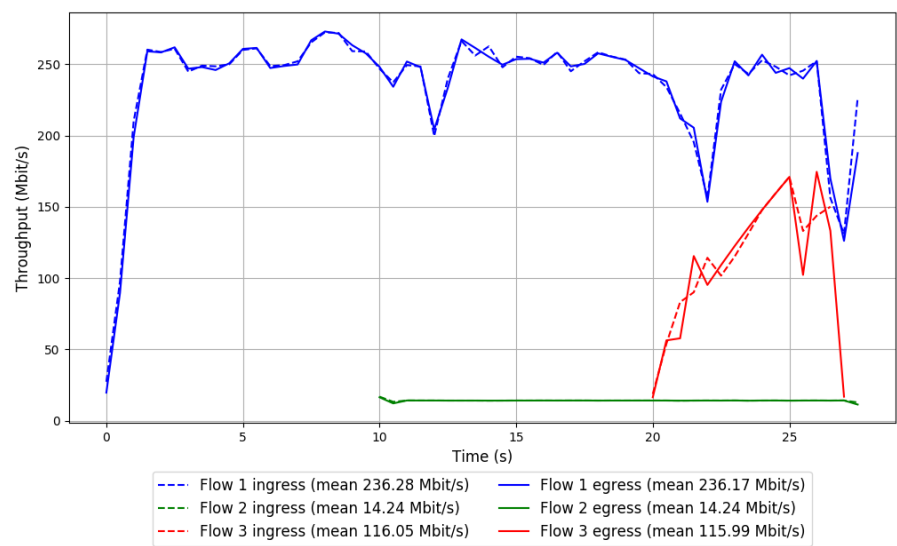
-- Flow 3:

Average throughput: 115.99 Mbit/s

95th percentile per-packet one-way delay: 53.852 ms

Loss rate: 0.01%

Run 9: Report of TaoVA-100x — Data Link

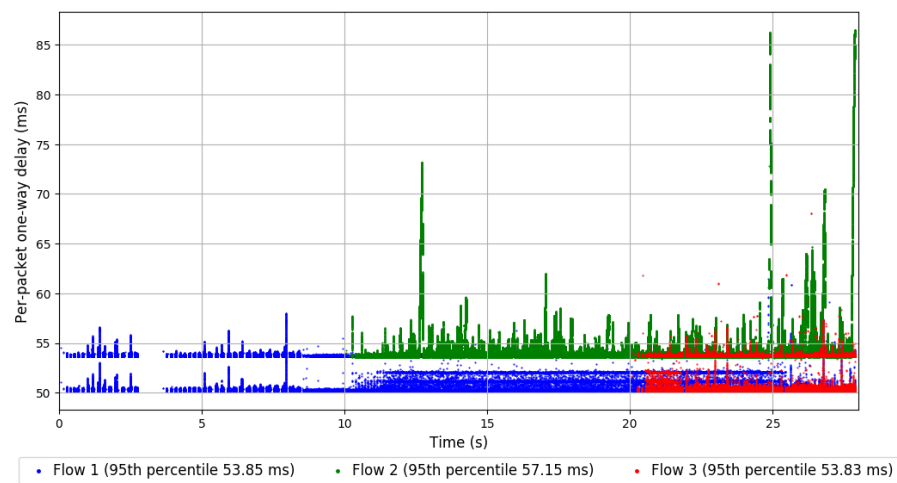
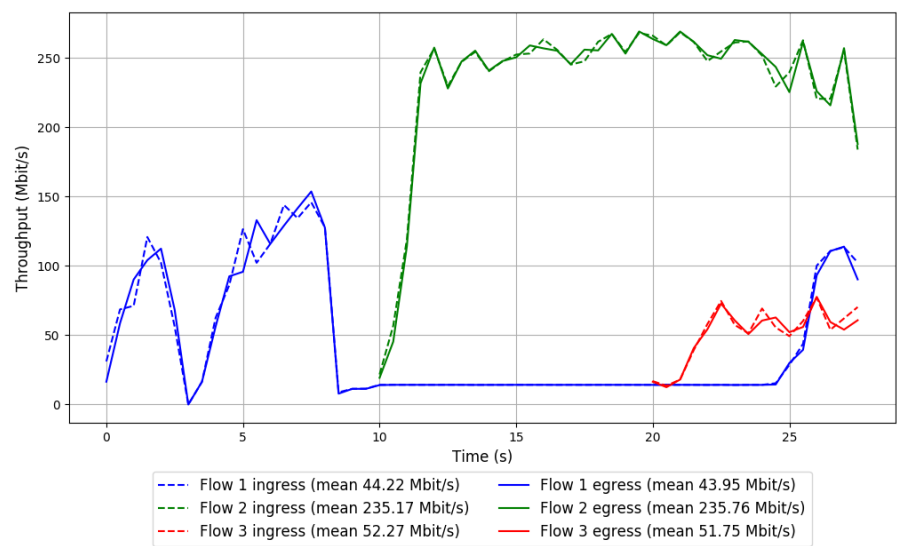


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-09-22 09:19:10
End at: 2017-09-22 09:19:40

# Below is generated by plot.py at 2017-09-22 12:15:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 209.50 Mbit/s
95th percentile per-packet one-way delay: 56.281 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 43.95 Mbit/s
95th percentile per-packet one-way delay: 53.846 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 235.76 Mbit/s
95th percentile per-packet one-way delay: 57.154 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 51.75 Mbit/s
95th percentile per-packet one-way delay: 53.831 ms
Loss rate: 2.13%
```

Run 10: Report of TaoVA-100x — Data Link



Run 1: Statistics of TCP Vegas

Start at: 2017-09-22 07:20:17

End at: 2017-09-22 07:20:47

Below is generated by plot.py at 2017-09-22 12:15:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.55 Mbit/s

95th percentile per-packet one-way delay: 54.470 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 7.03 Mbit/s

95th percentile per-packet one-way delay: 54.434 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 8.64 Mbit/s

95th percentile per-packet one-way delay: 54.405 ms

Loss rate: 0.53%

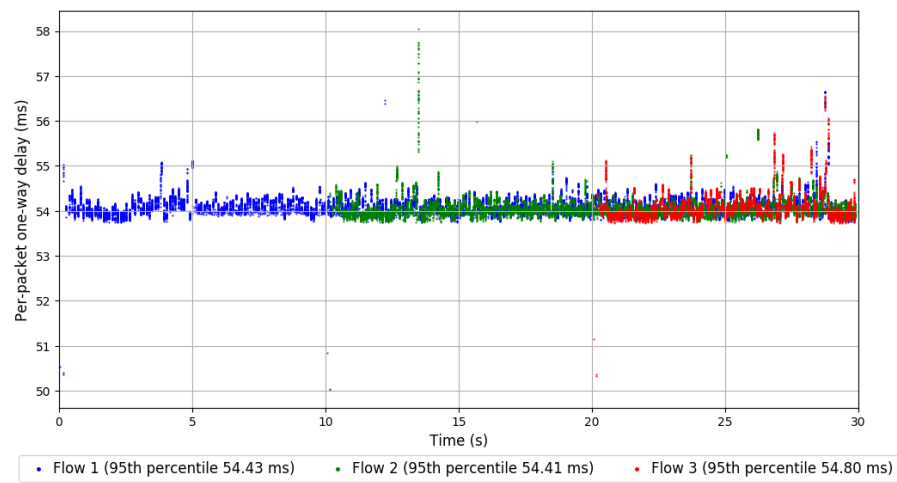
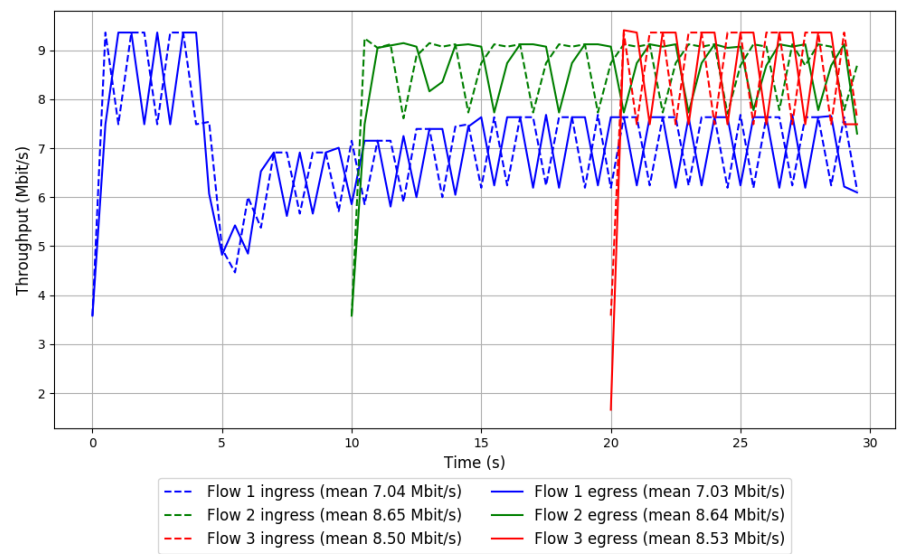
-- Flow 3:

Average throughput: 8.53 Mbit/s

95th percentile per-packet one-way delay: 54.800 ms

Loss rate: 1.18%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-09-22 07:32:50

End at: 2017-09-22 07:33:20

Below is generated by plot.py at 2017-09-22 12:15:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.91 Mbit/s

95th percentile per-packet one-way delay: 54.684 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 23.79 Mbit/s

95th percentile per-packet one-way delay: 54.598 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 8.60 Mbit/s

95th percentile per-packet one-way delay: 54.445 ms

Loss rate: 0.53%

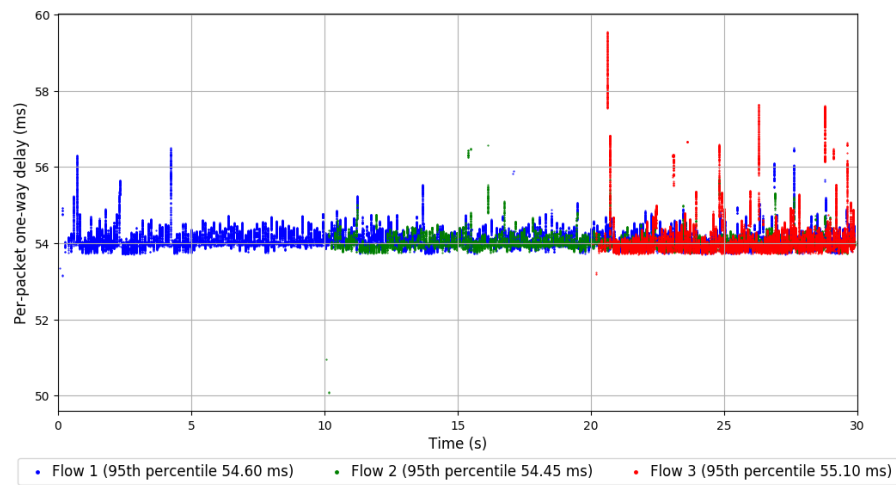
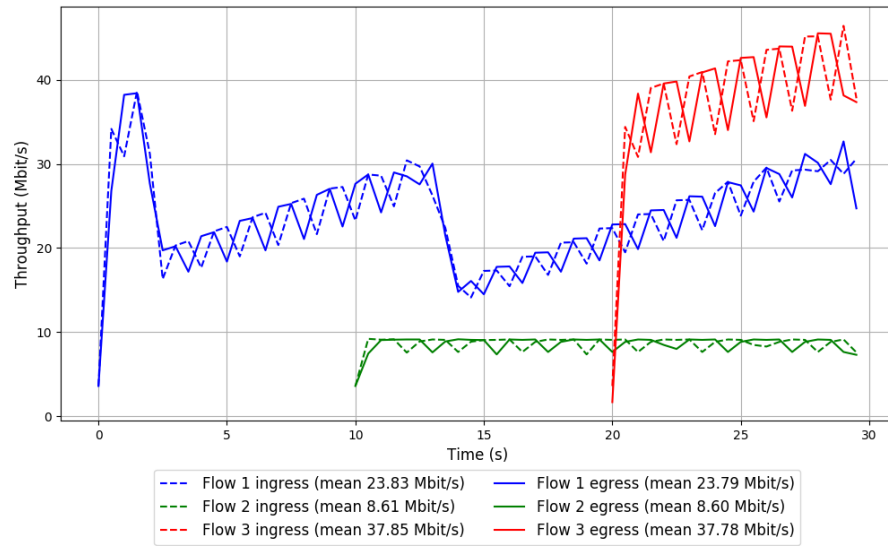
-- Flow 3:

Average throughput: 37.78 Mbit/s

95th percentile per-packet one-way delay: 55.101 ms

Loss rate: 1.26%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-09-22 07:45:16

End at: 2017-09-22 07:45:46

Below is generated by plot.py at 2017-09-22 12:15:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.13 Mbit/s

95th percentile per-packet one-way delay: 54.891 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 24.11 Mbit/s

95th percentile per-packet one-way delay: 54.811 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 25.82 Mbit/s

95th percentile per-packet one-way delay: 55.323 ms

Loss rate: 0.45%

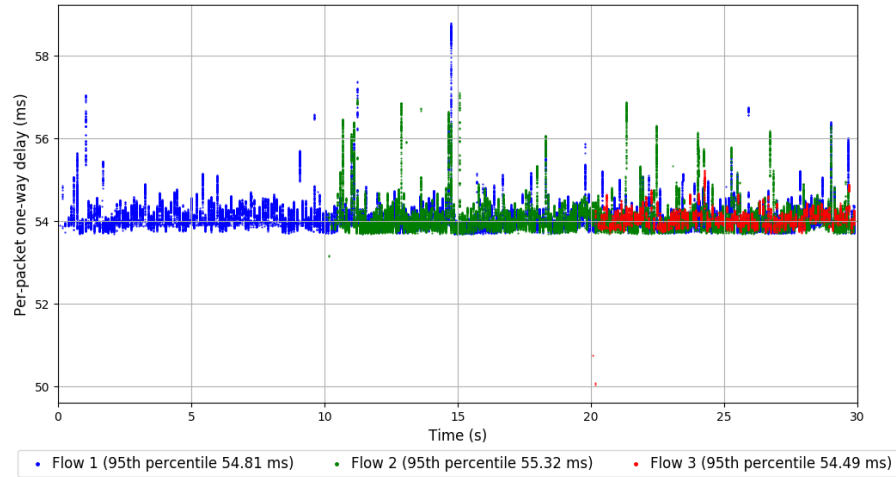
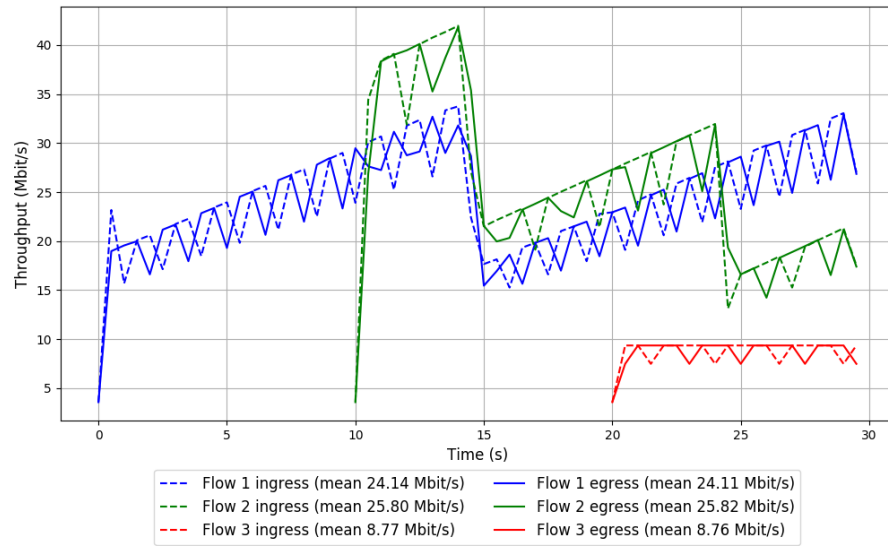
-- Flow 3:

Average throughput: 8.76 Mbit/s

95th percentile per-packet one-way delay: 54.486 ms

Loss rate: 1.08%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-09-22 07:57:41

End at: 2017-09-22 07:58:11

Below is generated by plot.py at 2017-09-22 12:15:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 165.67 Mbit/s

95th percentile per-packet one-way delay: 64.107 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 75.31 Mbit/s

95th percentile per-packet one-way delay: 57.377 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 42.81 Mbit/s

95th percentile per-packet one-way delay: 58.257 ms

Loss rate: 0.65%

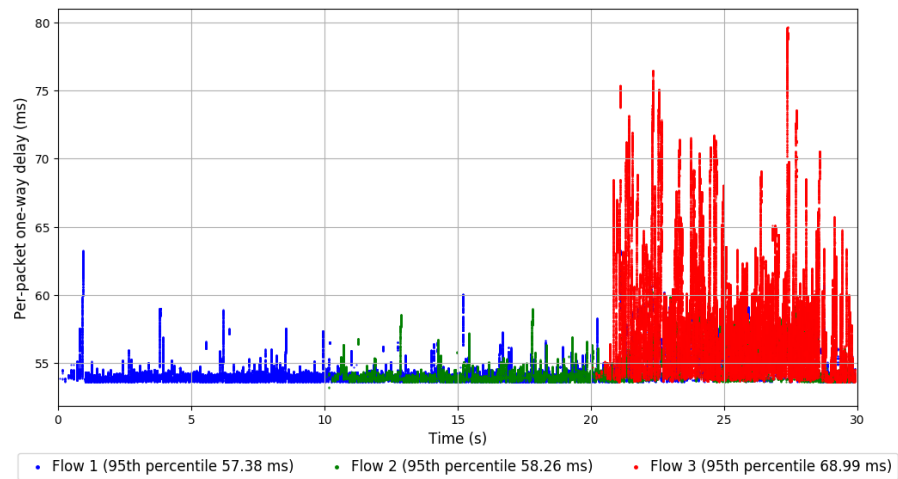
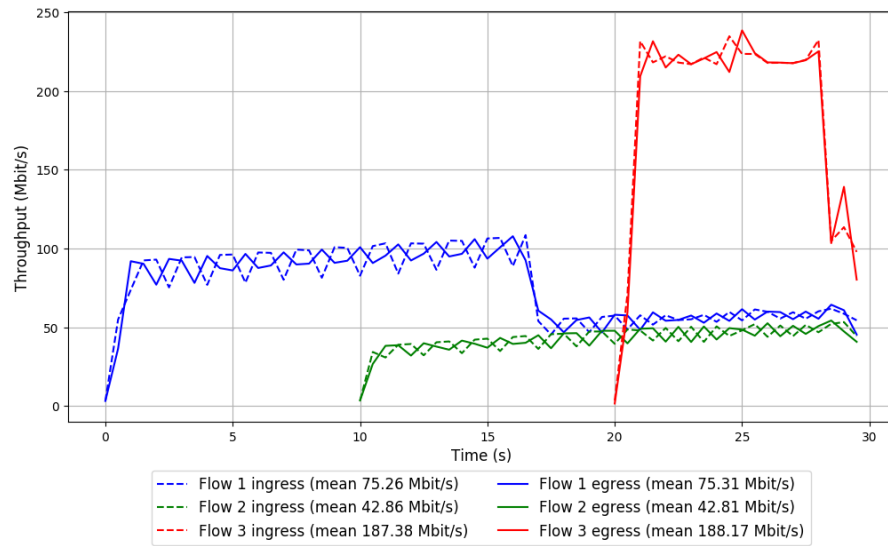
-- Flow 3:

Average throughput: 188.17 Mbit/s

95th percentile per-packet one-way delay: 68.988 ms

Loss rate: 0.67%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-09-22 08:10:01

End at: 2017-09-22 08:10:31

Below is generated by plot.py at 2017-09-22 12:15:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.34 Mbit/s

95th percentile per-packet one-way delay: 55.623 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 54.69 Mbit/s

95th percentile per-packet one-way delay: 56.148 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 8.87 Mbit/s

95th percentile per-packet one-way delay: 54.546 ms

Loss rate: 0.53%

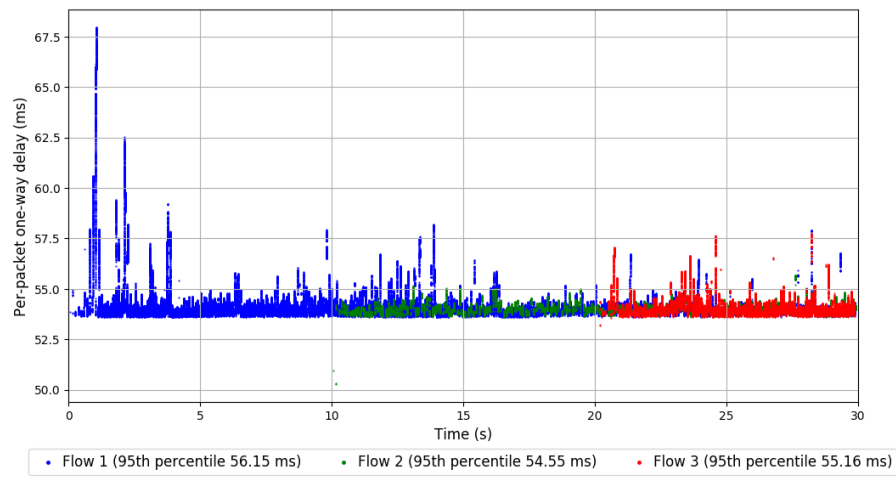
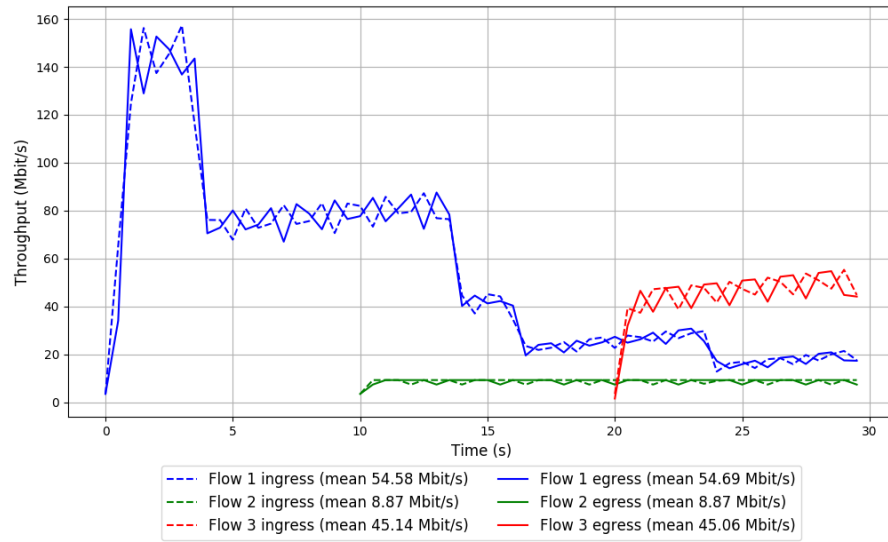
-- Flow 3:

Average throughput: 45.06 Mbit/s

95th percentile per-packet one-way delay: 55.159 ms

Loss rate: 1.25%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-09-22 08:22:26

End at: 2017-09-22 08:22:56

Below is generated by plot.py at 2017-09-22 12:15:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.77 Mbit/s

95th percentile per-packet one-way delay: 55.310 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 12.67 Mbit/s

95th percentile per-packet one-way delay: 54.928 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 77.68 Mbit/s

95th percentile per-packet one-way delay: 55.487 ms

Loss rate: 0.62%

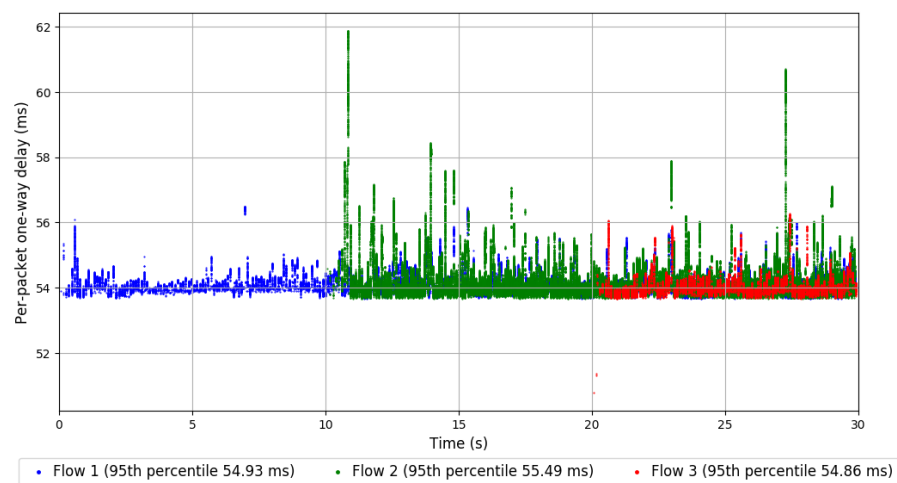
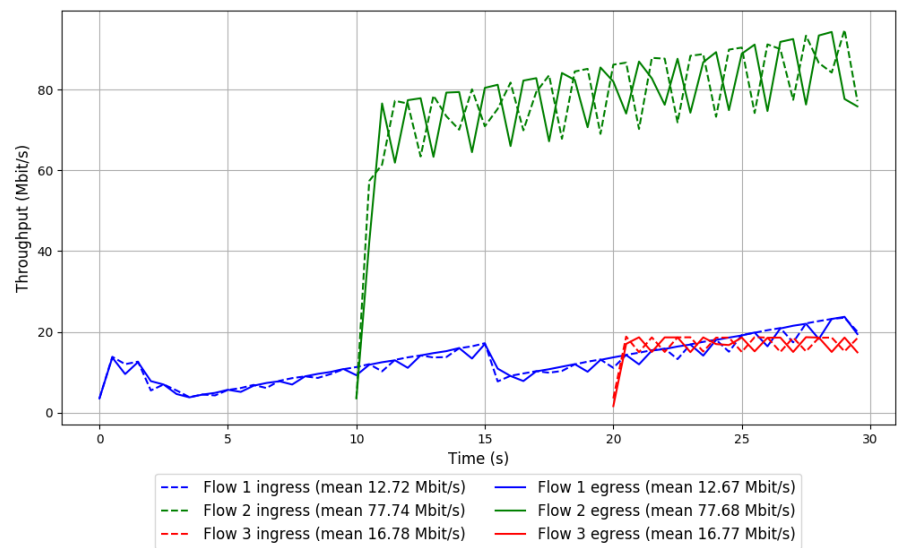
-- Flow 3:

Average throughput: 16.77 Mbit/s

95th percentile per-packet one-way delay: 54.859 ms

Loss rate: 1.12%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-09-22 08:34:50

End at: 2017-09-22 08:35:20

Below is generated by plot.py at 2017-09-22 12:15:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 35.33 Mbit/s

95th percentile per-packet one-way delay: 55.110 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 6.43 Mbit/s

95th percentile per-packet one-way delay: 54.598 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 8.35 Mbit/s

95th percentile per-packet one-way delay: 54.636 ms

Loss rate: 0.29%

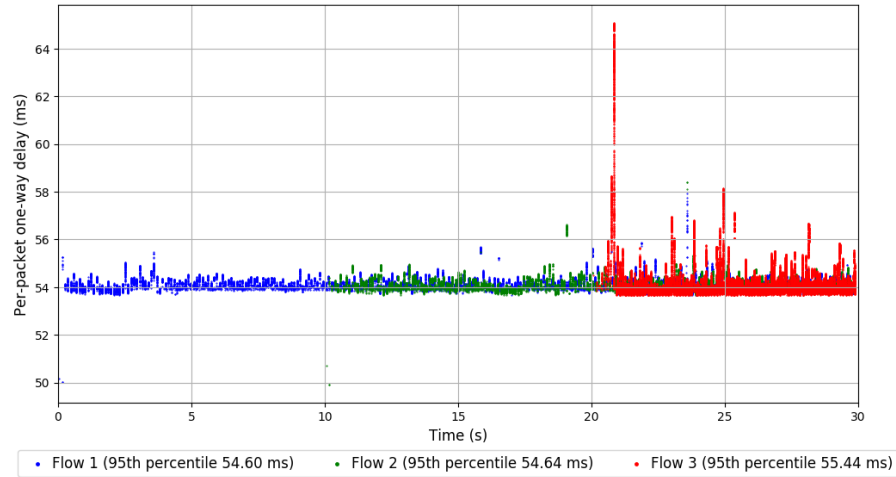
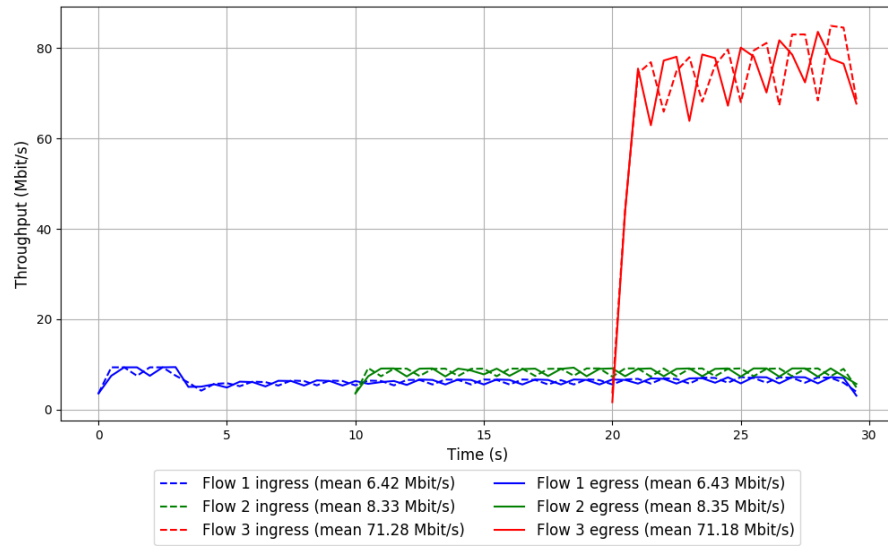
-- Flow 3:

Average throughput: 71.18 Mbit/s

95th percentile per-packet one-way delay: 55.444 ms

Loss rate: 1.22%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-09-22 08:47:22

End at: 2017-09-22 08:47:52

Below is generated by plot.py at 2017-09-22 12:15:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.88 Mbit/s

95th percentile per-packet one-way delay: 55.354 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 48.89 Mbit/s

95th percentile per-packet one-way delay: 55.430 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 39.95 Mbit/s

95th percentile per-packet one-way delay: 55.371 ms

Loss rate: 0.26%

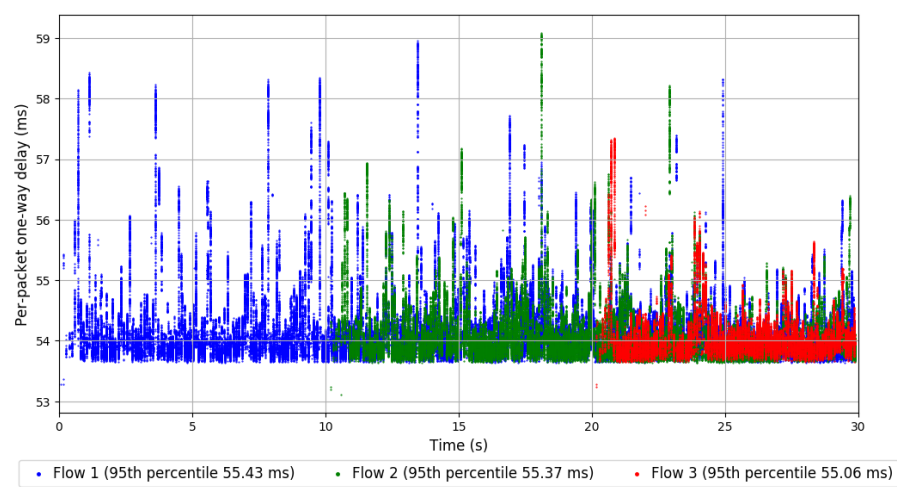
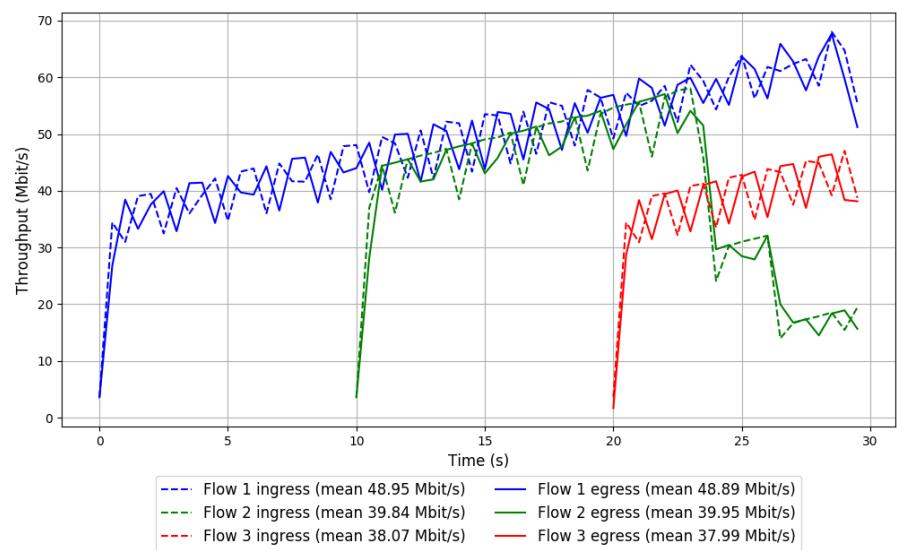
-- Flow 3:

Average throughput: 37.99 Mbit/s

95th percentile per-packet one-way delay: 55.059 ms

Loss rate: 1.27%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-09-22 08:59:51

End at: 2017-09-22 09:00:21

Below is generated by plot.py at 2017-09-22 12:15:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.53 Mbit/s

95th percentile per-packet one-way delay: 56.109 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 6.47 Mbit/s

95th percentile per-packet one-way delay: 54.485 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 54.596 ms

Loss rate: 0.51%

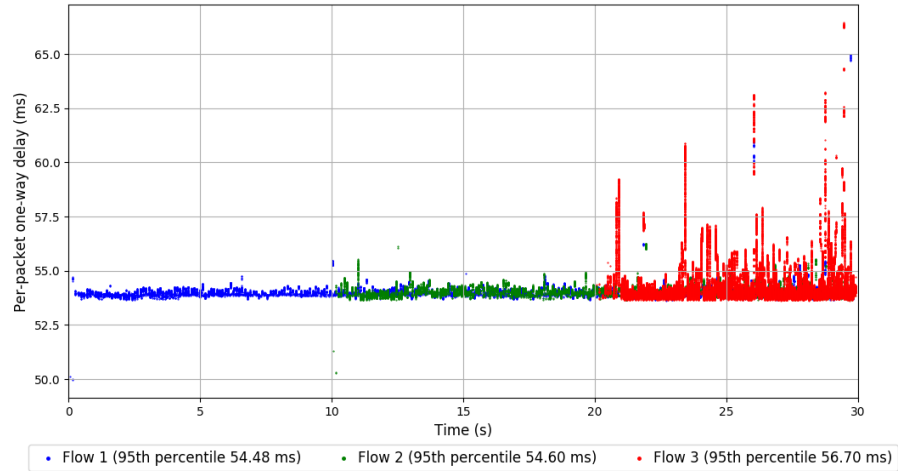
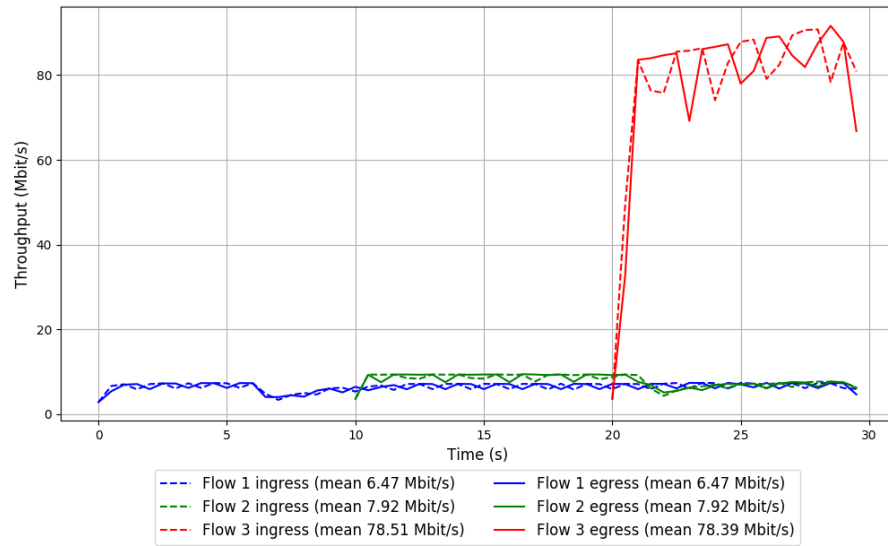
-- Flow 3:

Average throughput: 78.39 Mbit/s

95th percentile per-packet one-way delay: 56.702 ms

Loss rate: 1.19%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-09-22 09:12:09

End at: 2017-09-22 09:12:39

Below is generated by plot.py at 2017-09-22 12:15:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 33.89 Mbit/s

95th percentile per-packet one-way delay: 54.811 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 6.12 Mbit/s

95th percentile per-packet one-way delay: 54.318 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 37.46 Mbit/s

95th percentile per-packet one-way delay: 54.979 ms

Loss rate: 0.51%

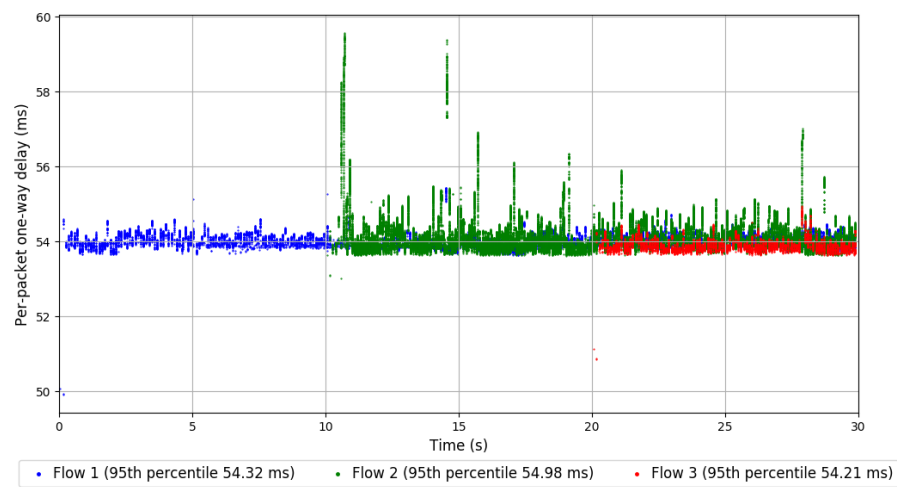
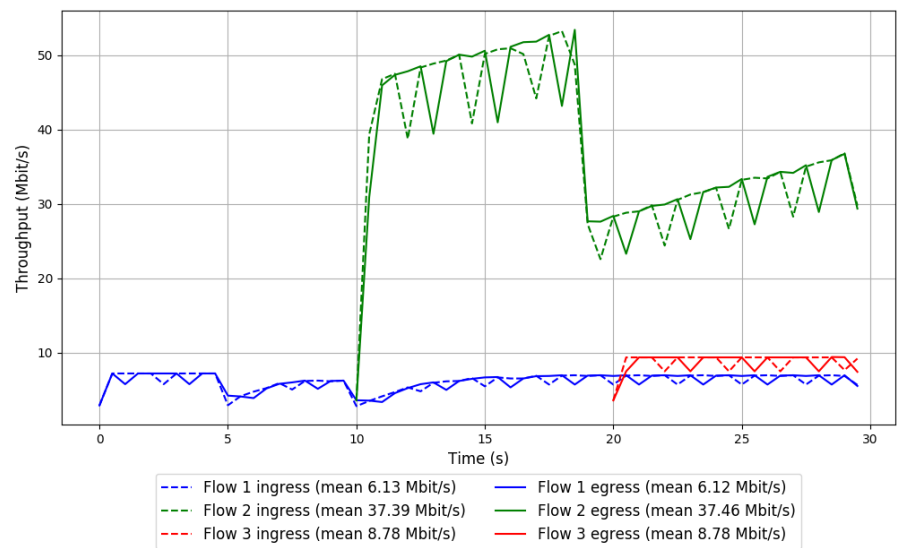
-- Flow 3:

Average throughput: 8.78 Mbit/s

95th percentile per-packet one-way delay: 54.207 ms

Loss rate: 1.08%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-09-22 07:20:58

End at: 2017-09-22 07:21:28

Below is generated by plot.py at 2017-09-22 12:19:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 365.61 Mbit/s

95th percentile per-packet one-way delay: 169.340 ms

Loss rate: 1.89%

-- Flow 1:

Average throughput: 222.62 Mbit/s

95th percentile per-packet one-way delay: 140.205 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 127.01 Mbit/s

95th percentile per-packet one-way delay: 168.507 ms

Loss rate: 3.50%

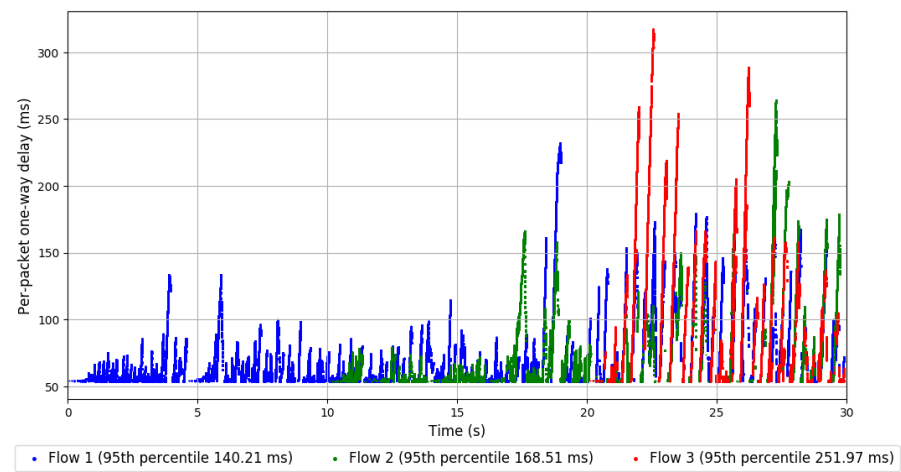
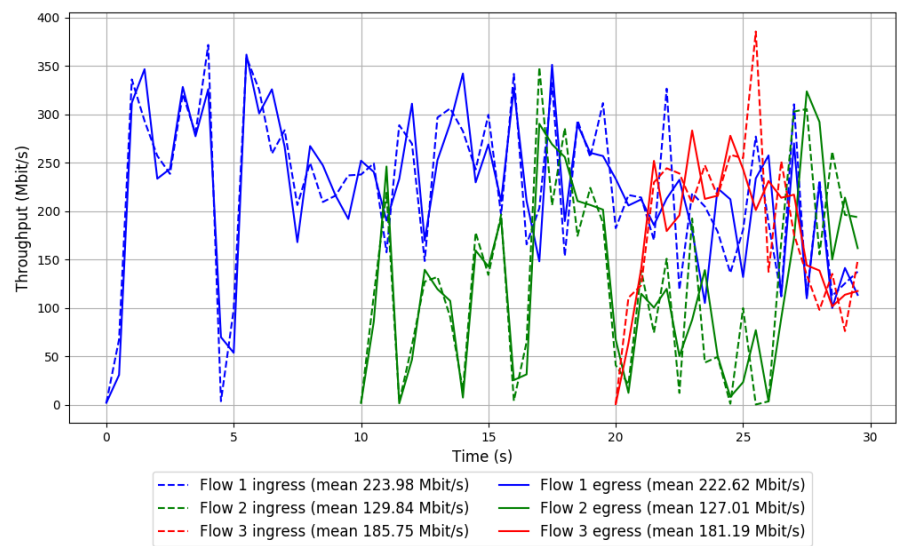
-- Flow 3:

Average throughput: 181.19 Mbit/s

95th percentile per-packet one-way delay: 251.971 ms

Loss rate: 3.57%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-09-22 07:33:32

End at: 2017-09-22 07:34:02

Below is generated by plot.py at 2017-09-22 12:20:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 405.35 Mbit/s

95th percentile per-packet one-way delay: 111.275 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 252.10 Mbit/s

95th percentile per-packet one-way delay: 116.507 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 173.12 Mbit/s

95th percentile per-packet one-way delay: 102.021 ms

Loss rate: 1.27%

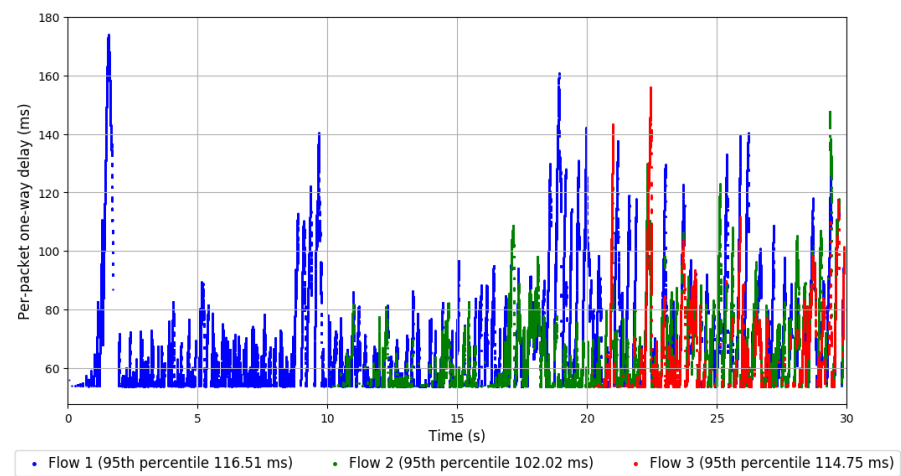
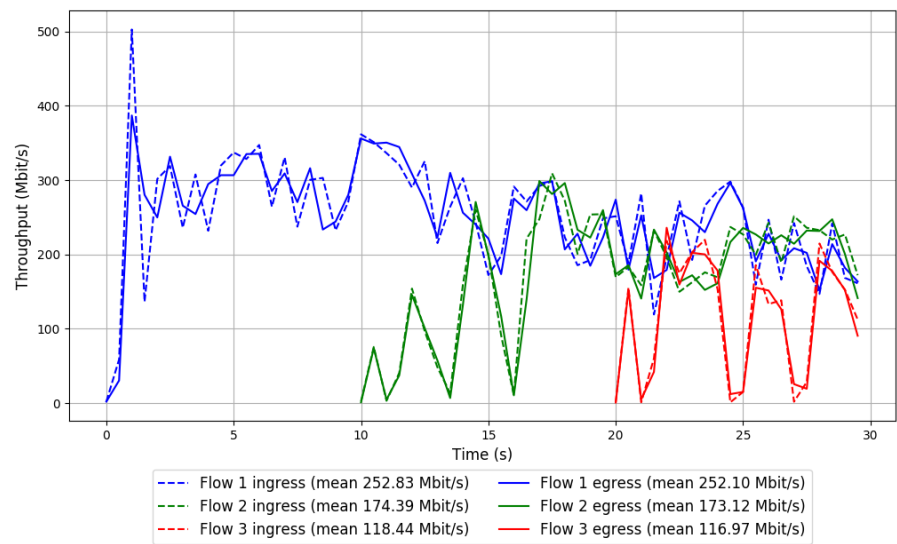
-- Flow 3:

Average throughput: 116.97 Mbit/s

95th percentile per-packet one-way delay: 114.753 ms

Loss rate: 2.30%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-09-22 07:45:58

End at: 2017-09-22 07:46:28

Below is generated by plot.py at 2017-09-22 12:20:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 347.89 Mbit/s

95th percentile per-packet one-way delay: 152.869 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 188.72 Mbit/s

95th percentile per-packet one-way delay: 144.566 ms

Loss rate: 1.73%

-- Flow 2:

Average throughput: 168.06 Mbit/s

95th percentile per-packet one-way delay: 165.208 ms

Loss rate: 1.34%

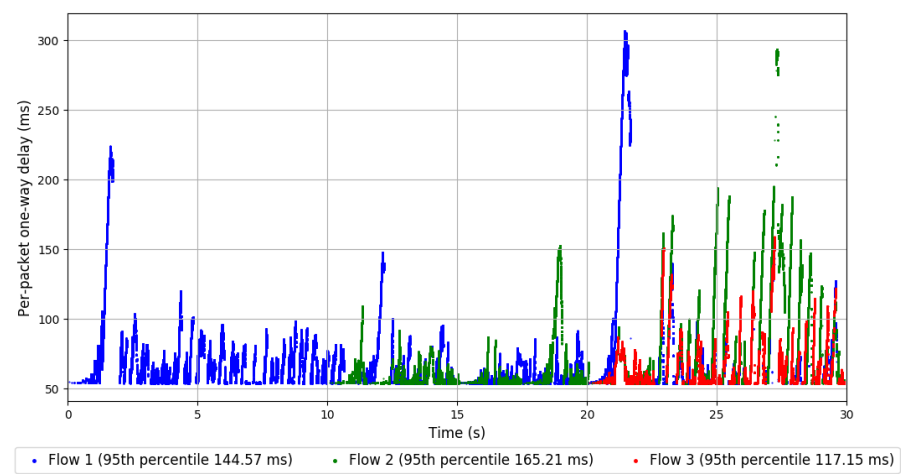
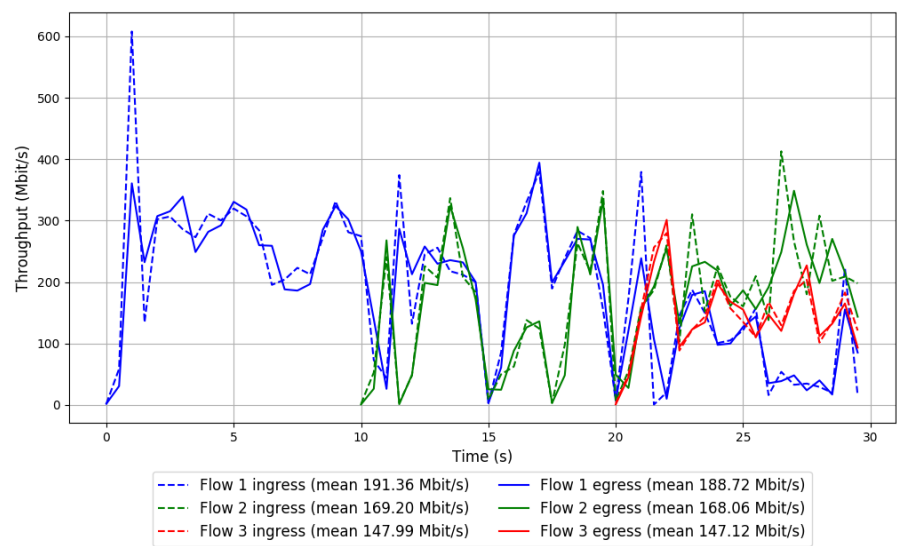
-- Flow 3:

Average throughput: 147.12 Mbit/s

95th percentile per-packet one-way delay: 117.151 ms

Loss rate: 1.65%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-09-22 07:58:31

End at: 2017-09-22 07:59:01

Below is generated by plot.py at 2017-09-22 12:20:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 370.14 Mbit/s

95th percentile per-packet one-way delay: 142.535 ms

Loss rate: 1.57%

-- Flow 1:

Average throughput: 239.43 Mbit/s

95th percentile per-packet one-way delay: 120.121 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 125.81 Mbit/s

95th percentile per-packet one-way delay: 164.559 ms

Loss rate: 1.32%

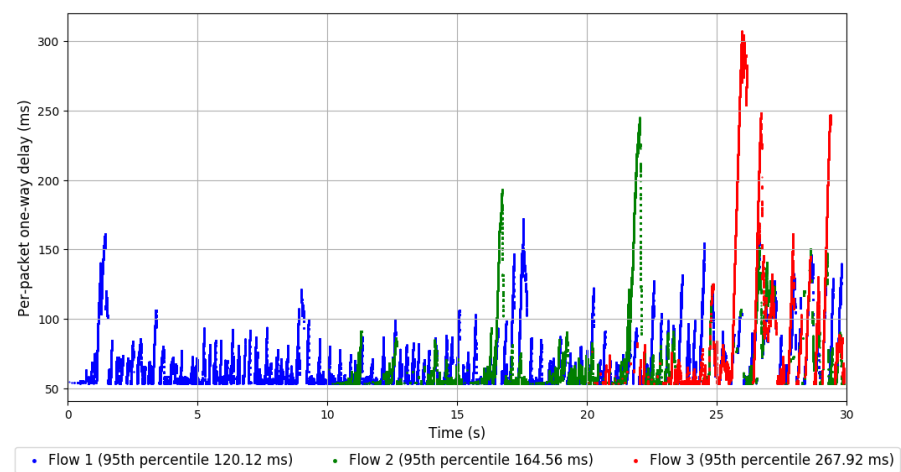
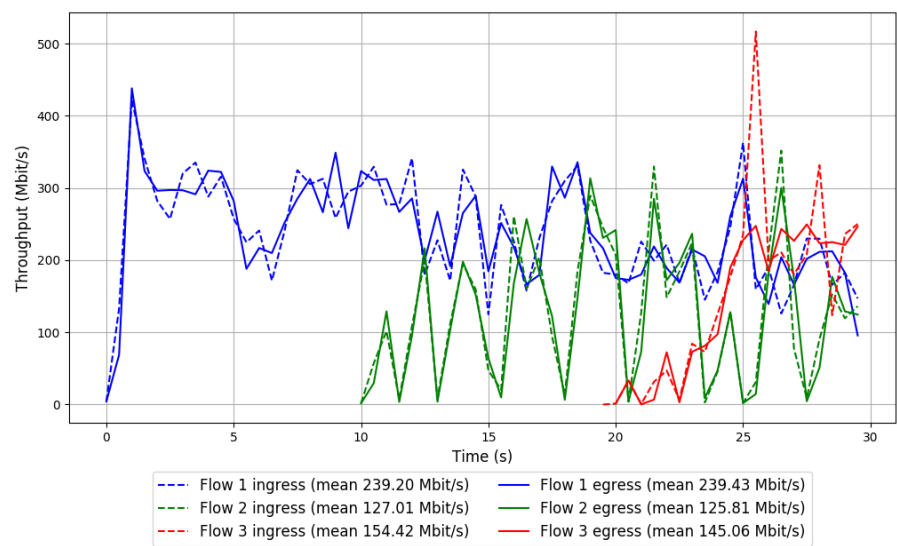
-- Flow 3:

Average throughput: 145.06 Mbit/s

95th percentile per-packet one-way delay: 267.924 ms

Loss rate: 7.07%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-09-22 08:10:45

End at: 2017-09-22 08:11:15

Below is generated by plot.py at 2017-09-22 12:20:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.46 Mbit/s

95th percentile per-packet one-way delay: 142.822 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 203.38 Mbit/s

95th percentile per-packet one-way delay: 144.212 ms

Loss rate: 1.20%

-- Flow 2:

Average throughput: 113.29 Mbit/s

95th percentile per-packet one-way delay: 164.245 ms

Loss rate: 0.59%

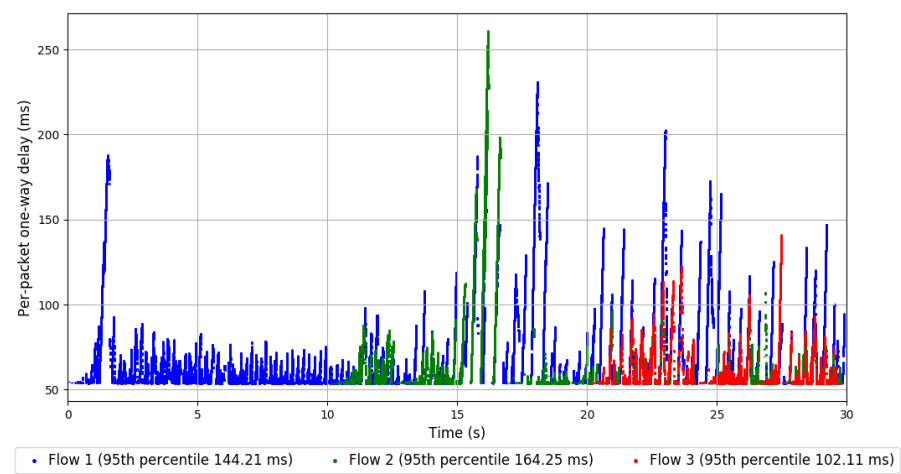
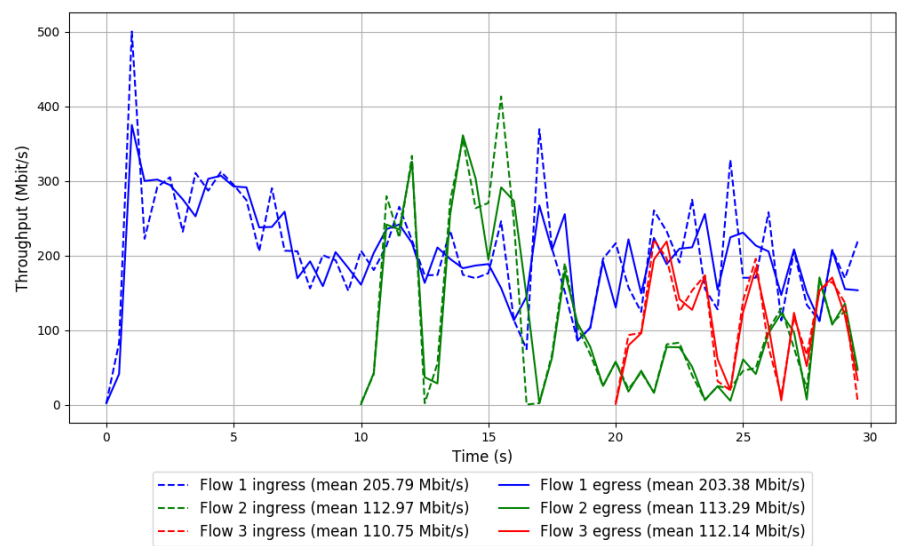
-- Flow 3:

Average throughput: 112.14 Mbit/s

95th percentile per-packet one-way delay: 102.109 ms

Loss rate: 0.04%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-09-22 08:23:10

End at: 2017-09-22 08:23:40

Below is generated by plot.py at 2017-09-22 12:20:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 355.35 Mbit/s

95th percentile per-packet one-way delay: 117.568 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 226.77 Mbit/s

95th percentile per-packet one-way delay: 107.894 ms

Loss rate: 1.61%

-- Flow 2:

Average throughput: 122.41 Mbit/s

95th percentile per-packet one-way delay: 91.196 ms

Loss rate: 0.44%

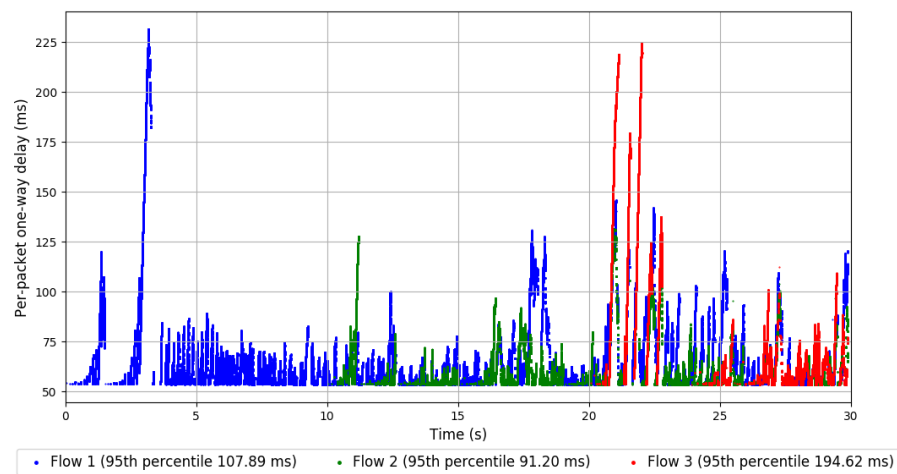
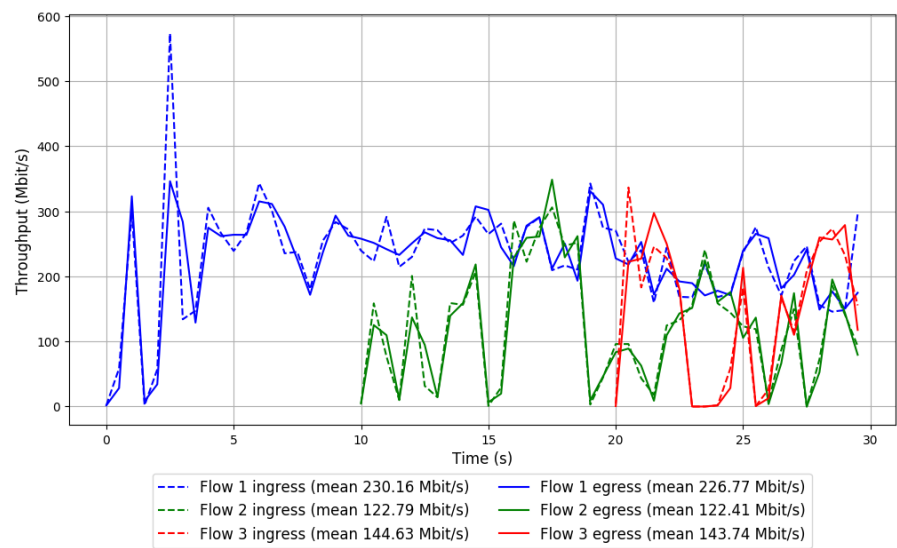
-- Flow 3:

Average throughput: 143.74 Mbit/s

95th percentile per-packet one-way delay: 194.624 ms

Loss rate: 1.32%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-09-22 08:35:32

End at: 2017-09-22 08:36:02

Below is generated by plot.py at 2017-09-22 12:20:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 307.69 Mbit/s

95th percentile per-packet one-way delay: 114.630 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 210.12 Mbit/s

95th percentile per-packet one-way delay: 117.344 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 101.36 Mbit/s

95th percentile per-packet one-way delay: 122.769 ms

Loss rate: 0.74%

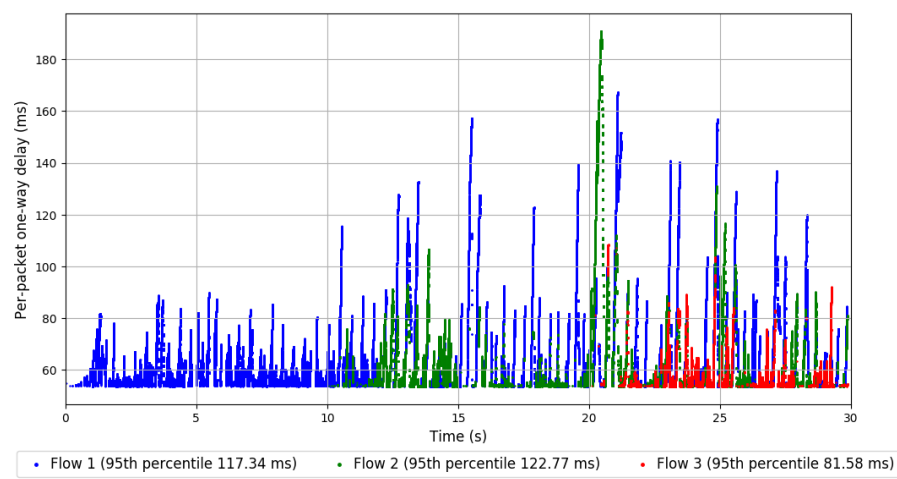
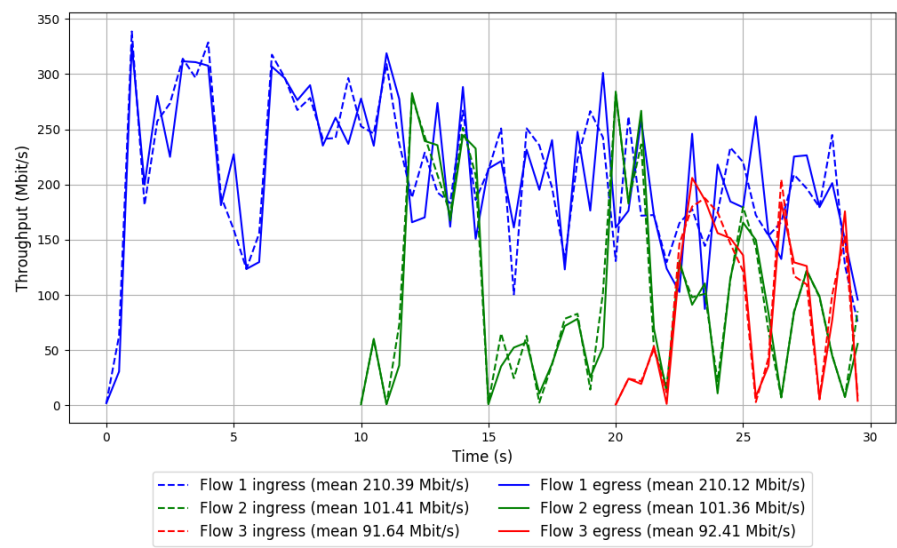
-- Flow 3:

Average throughput: 92.41 Mbit/s

95th percentile per-packet one-way delay: 81.576 ms

Loss rate: 0.24%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-09-22 08:48:07

End at: 2017-09-22 08:48:37

Below is generated by plot.py at 2017-09-22 12:22:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 343.57 Mbit/s

95th percentile per-packet one-way delay: 124.473 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 177.77 Mbit/s

95th percentile per-packet one-way delay: 115.957 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 143.32 Mbit/s

95th percentile per-packet one-way delay: 105.421 ms

Loss rate: 0.02%

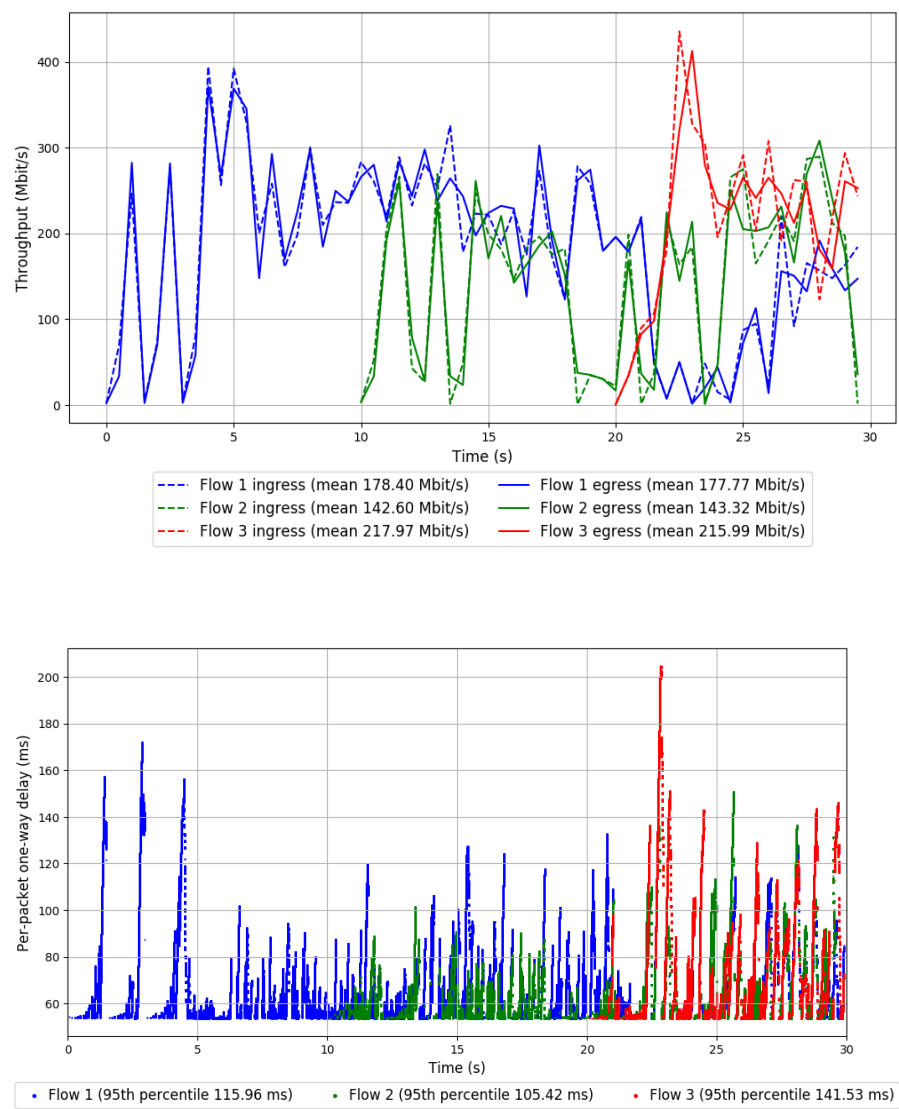
-- Flow 3:

Average throughput: 215.99 Mbit/s

95th percentile per-packet one-way delay: 141.530 ms

Loss rate: 1.96%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-09-22 09:00:33

End at: 2017-09-22 09:01:03

Below is generated by plot.py at 2017-09-22 12:25:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 361.03 Mbit/s

95th percentile per-packet one-way delay: 187.568 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 183.34 Mbit/s

95th percentile per-packet one-way delay: 135.638 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 228.28 Mbit/s

95th percentile per-packet one-way delay: 210.213 ms

Loss rate: 1.28%

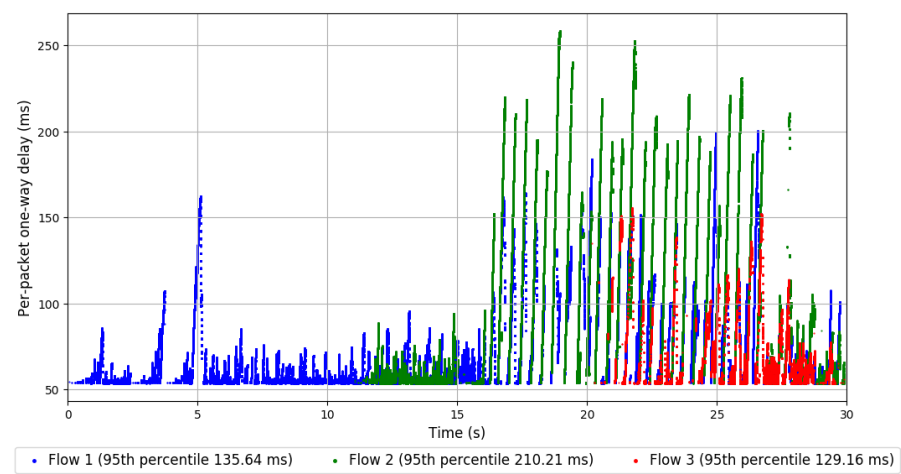
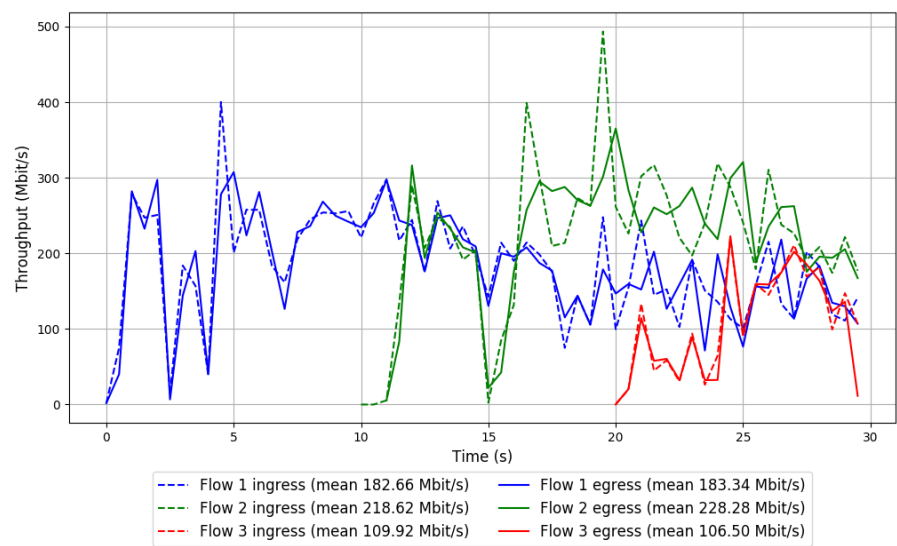
-- Flow 3:

Average throughput: 106.50 Mbit/s

95th percentile per-packet one-way delay: 129.161 ms

Loss rate: 5.01%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-09-22 09:12:51

End at: 2017-09-22 09:13:21

Below is generated by plot.py at 2017-09-22 12:25:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 312.16 Mbit/s

95th percentile per-packet one-way delay: 132.007 ms

Loss rate: 2.07%

-- Flow 1:

Average throughput: 190.90 Mbit/s

95th percentile per-packet one-way delay: 145.495 ms

Loss rate: 2.66%

-- Flow 2:

Average throughput: 139.79 Mbit/s

95th percentile per-packet one-way delay: 100.601 ms

Loss rate: 0.66%

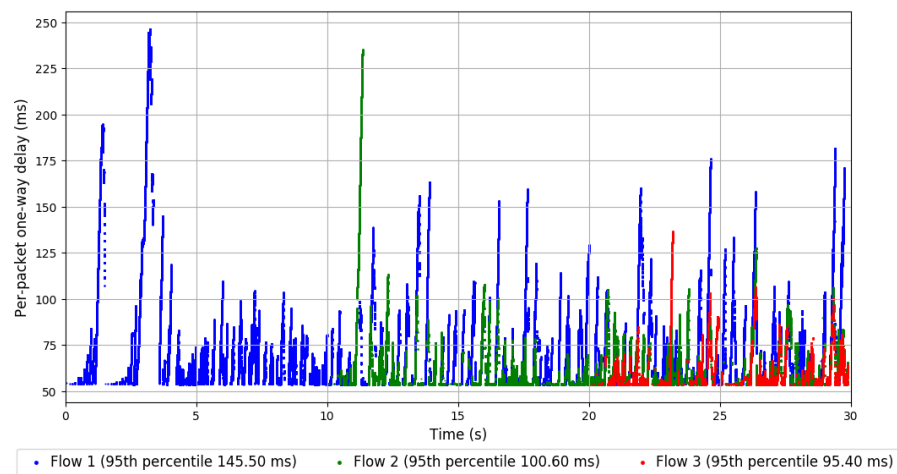
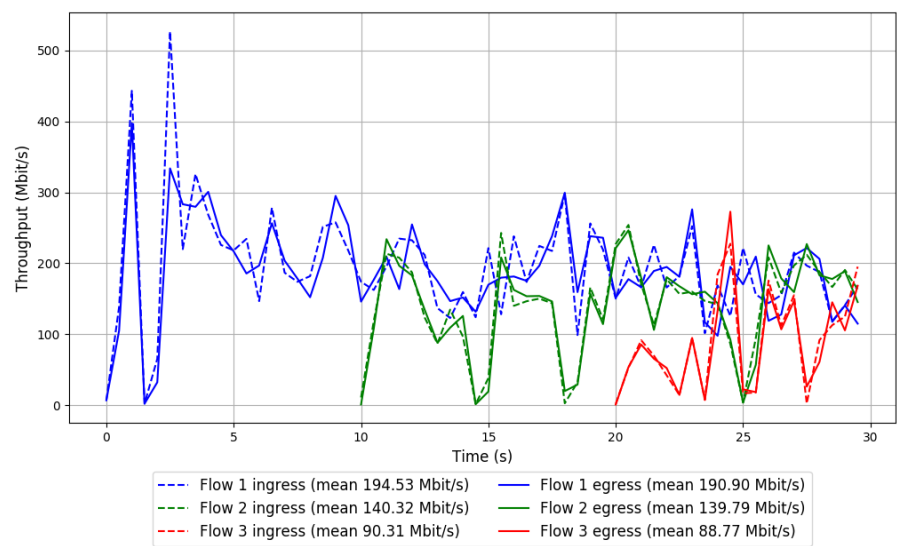
-- Flow 3:

Average throughput: 88.77 Mbit/s

95th percentile per-packet one-way delay: 95.400 ms

Loss rate: 2.58%

Run 10: Report of Verus — Data Link

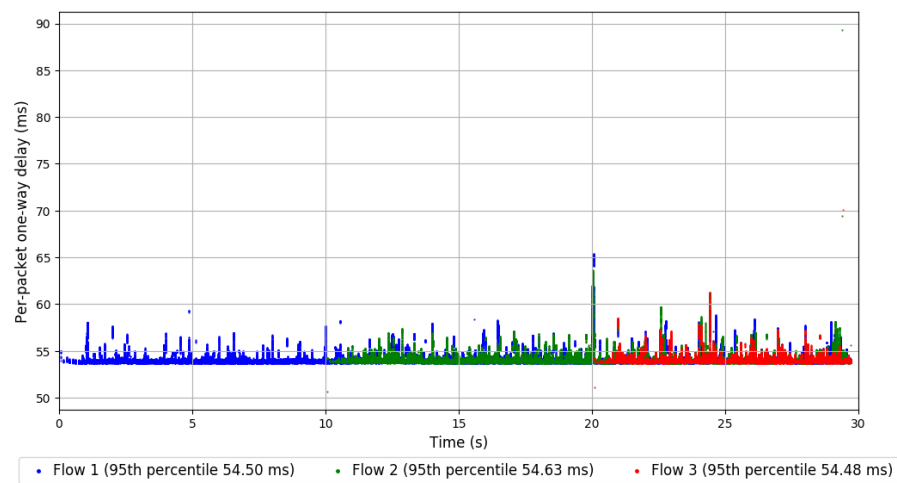
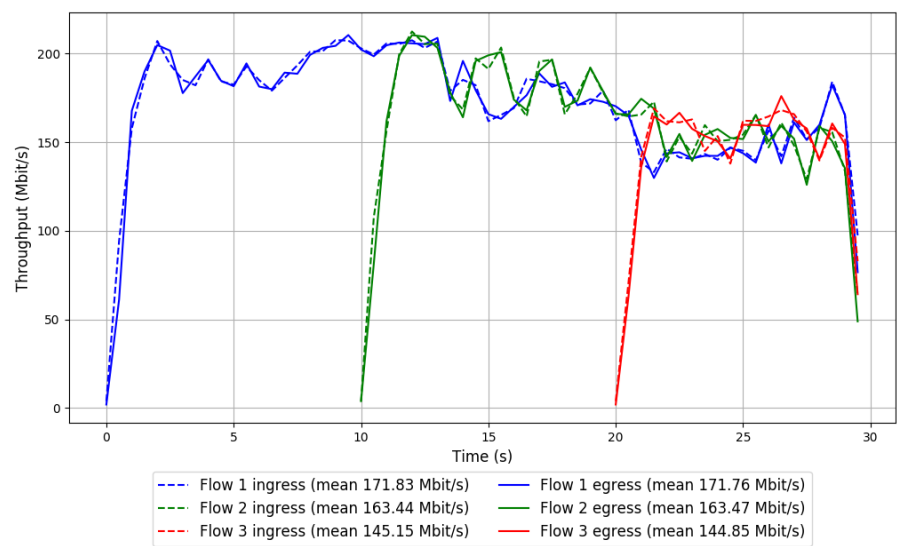


```
Run 1: Statistics of Indigo

Start at: 2017-09-22 07:15:57
End at: 2017-09-22 07:16:27

# Below is generated by plot.py at 2017-09-22 12:25:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 327.04 Mbit/s
95th percentile per-packet one-way delay: 54.544 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 171.76 Mbit/s
95th percentile per-packet one-way delay: 54.503 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 163.47 Mbit/s
95th percentile per-packet one-way delay: 54.630 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 144.85 Mbit/s
95th percentile per-packet one-way delay: 54.476 ms
Loss rate: 1.29%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-09-22 07:28:37

End at: 2017-09-22 07:29:07

Below is generated by plot.py at 2017-09-22 12:25:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 313.38 Mbit/s

95th percentile per-packet one-way delay: 54.416 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 170.07 Mbit/s

95th percentile per-packet one-way delay: 54.399 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 158.98 Mbit/s

95th percentile per-packet one-way delay: 54.602 ms

Loss rate: 0.46%

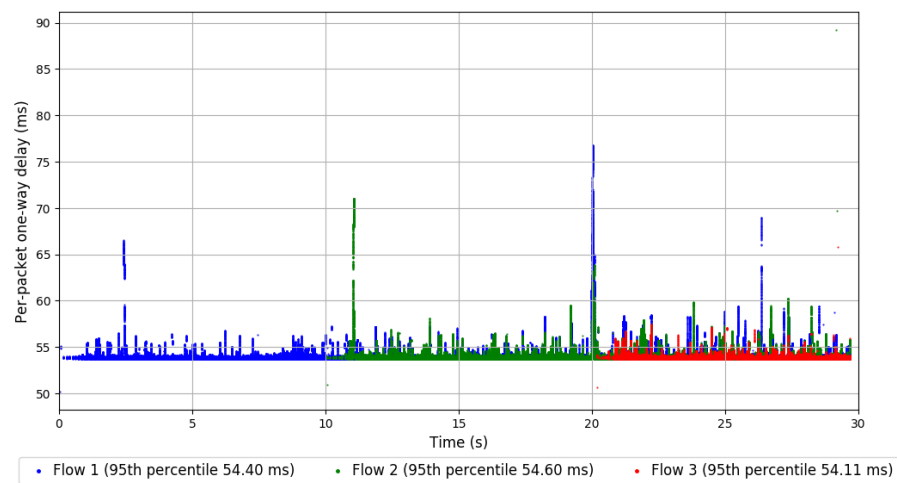
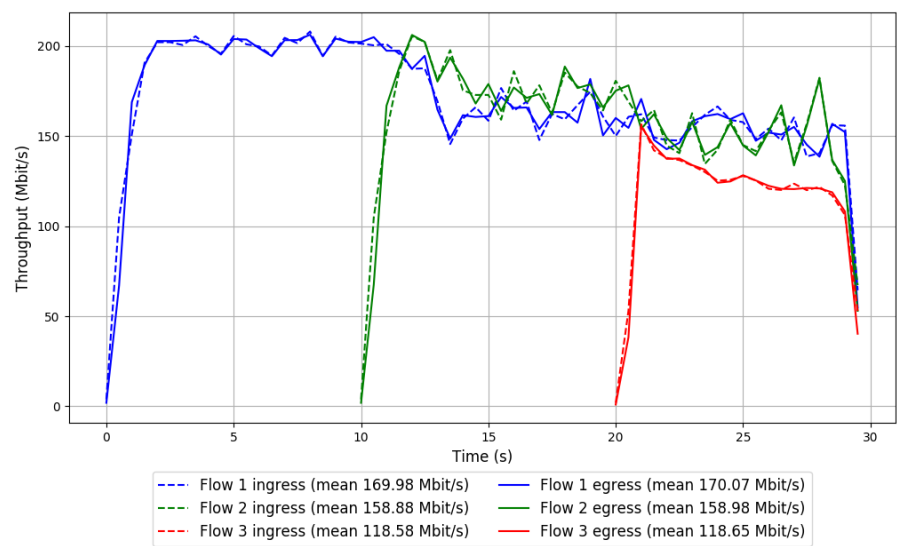
-- Flow 3:

Average throughput: 118.65 Mbit/s

95th percentile per-packet one-way delay: 54.114 ms

Loss rate: 1.02%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-09-22 07:41:04

End at: 2017-09-22 07:41:34

Below is generated by plot.py at 2017-09-22 12:25:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 322.68 Mbit/s

95th percentile per-packet one-way delay: 54.687 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 172.12 Mbit/s

95th percentile per-packet one-way delay: 54.488 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 158.87 Mbit/s

95th percentile per-packet one-way delay: 55.068 ms

Loss rate: 0.48%

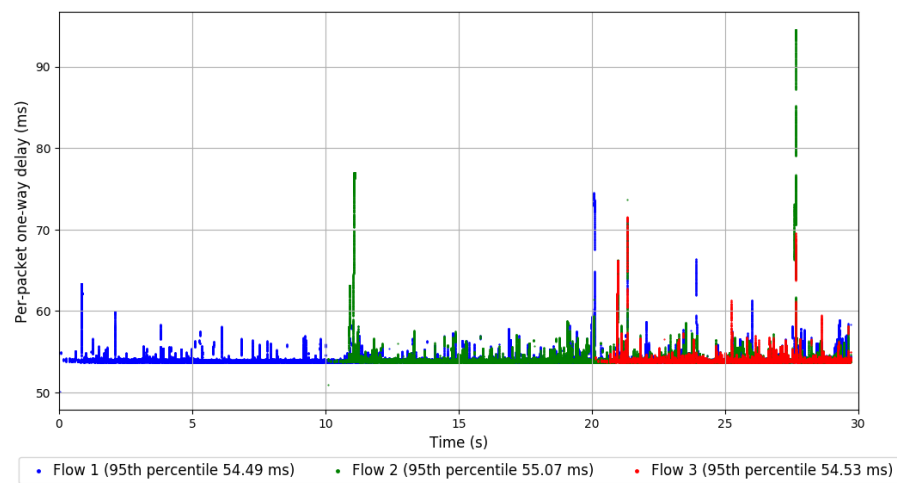
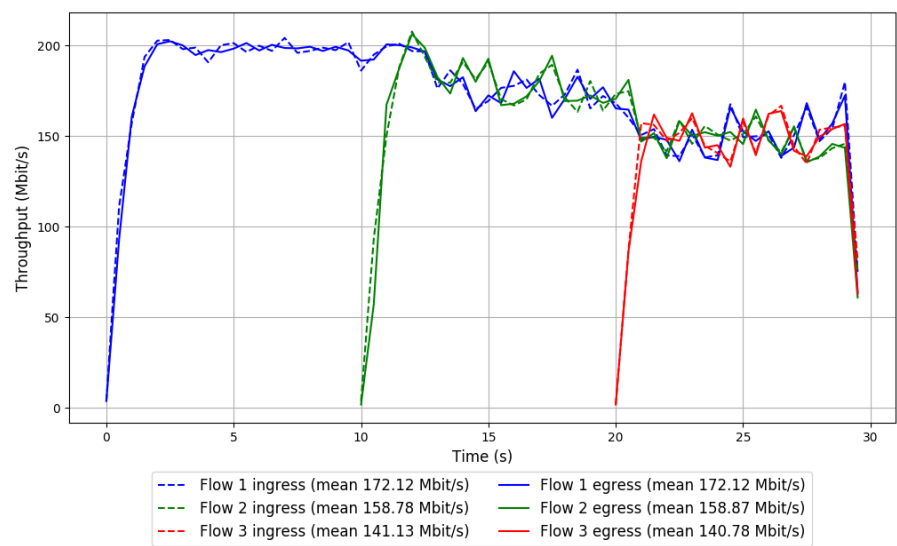
-- Flow 3:

Average throughput: 140.78 Mbit/s

95th percentile per-packet one-way delay: 54.529 ms

Loss rate: 1.38%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-09-22 07:53:20

End at: 2017-09-22 07:53:50

Below is generated by plot.py at 2017-09-22 12:25:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 321.15 Mbit/s

95th percentile per-packet one-way delay: 54.737 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 171.48 Mbit/s

95th percentile per-packet one-way delay: 54.484 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 161.69 Mbit/s

95th percentile per-packet one-way delay: 55.632 ms

Loss rate: 0.47%

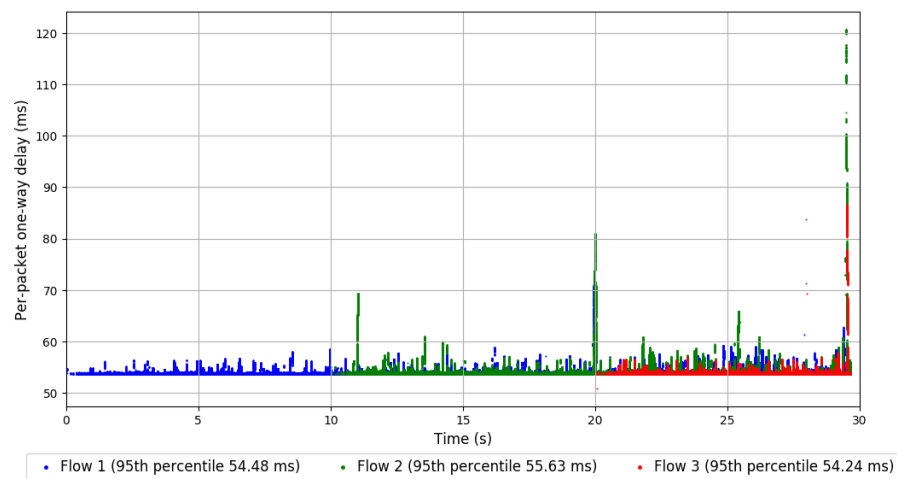
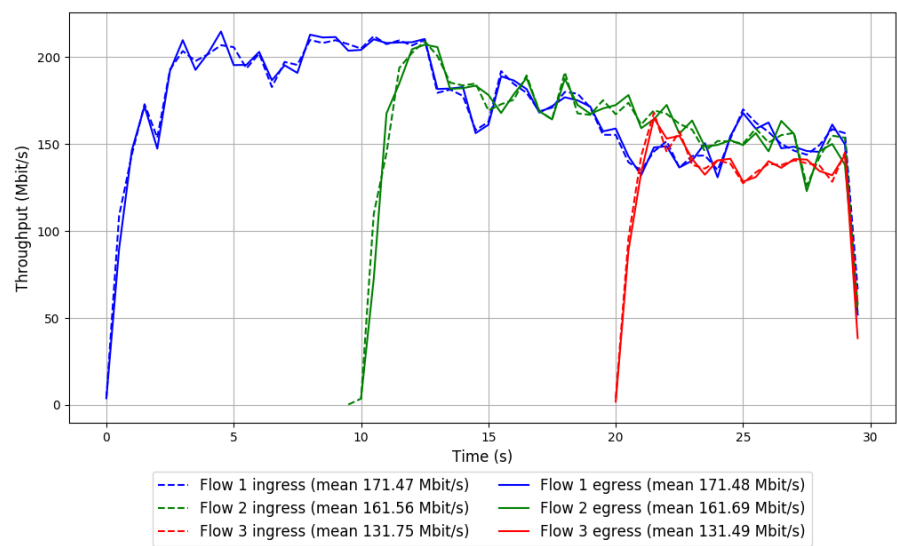
-- Flow 3:

Average throughput: 131.49 Mbit/s

95th percentile per-packet one-way delay: 54.240 ms

Loss rate: 1.28%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-09-22 08:05:42

End at: 2017-09-22 08:06:12

Below is generated by plot.py at 2017-09-22 12:26:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 315.22 Mbit/s

95th percentile per-packet one-way delay: 54.271 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 174.26 Mbit/s

95th percentile per-packet one-way delay: 54.204 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 153.23 Mbit/s

95th percentile per-packet one-way delay: 54.365 ms

Loss rate: 0.47%

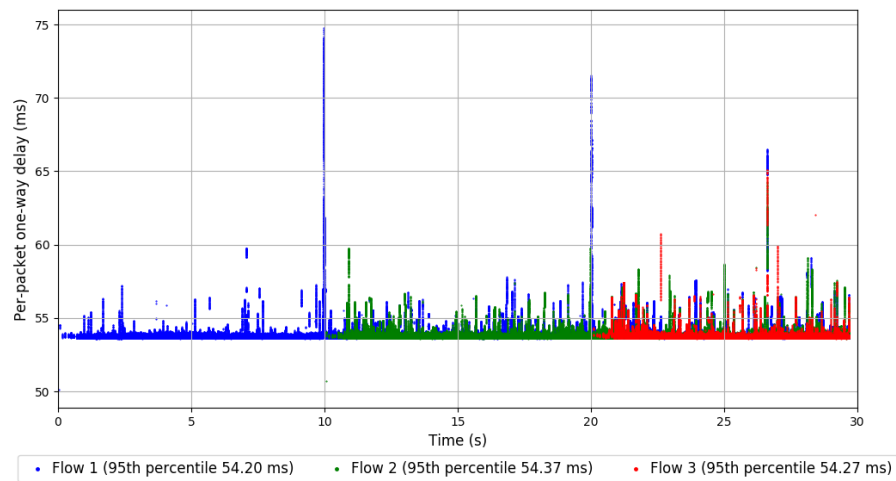
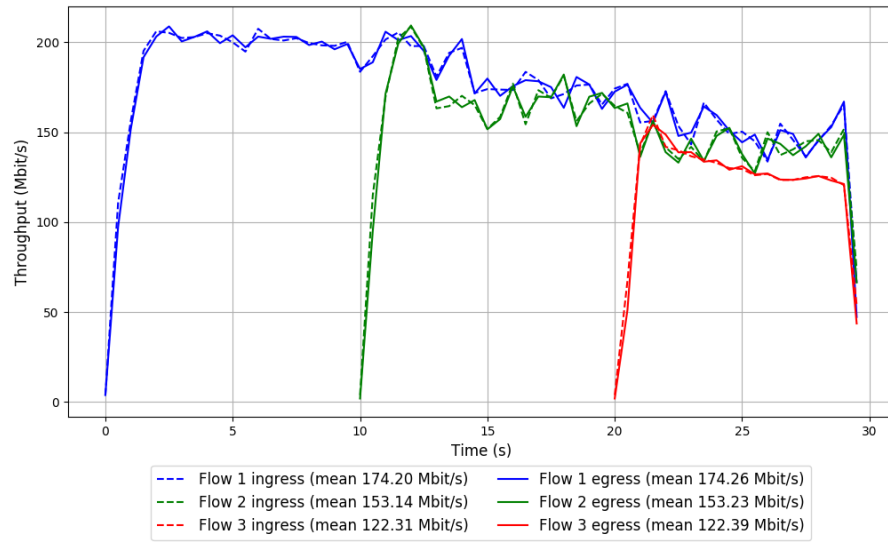
-- Flow 3:

Average throughput: 122.39 Mbit/s

95th percentile per-packet one-way delay: 54.268 ms

Loss rate: 1.03%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-09-22 08:18:04

End at: 2017-09-22 08:18:34

Below is generated by plot.py at 2017-09-22 12:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 332.72 Mbit/s

95th percentile per-packet one-way delay: 54.667 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 178.07 Mbit/s

95th percentile per-packet one-way delay: 54.660 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 160.03 Mbit/s

95th percentile per-packet one-way delay: 54.790 ms

Loss rate: 0.52%

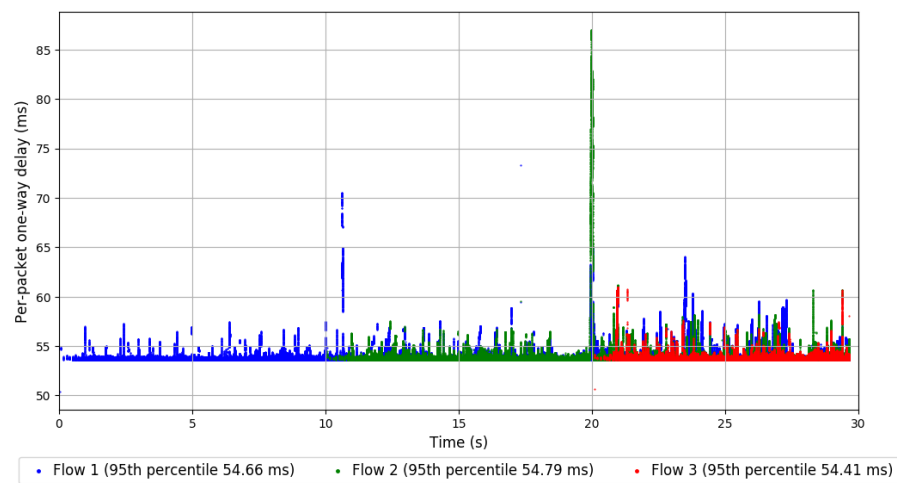
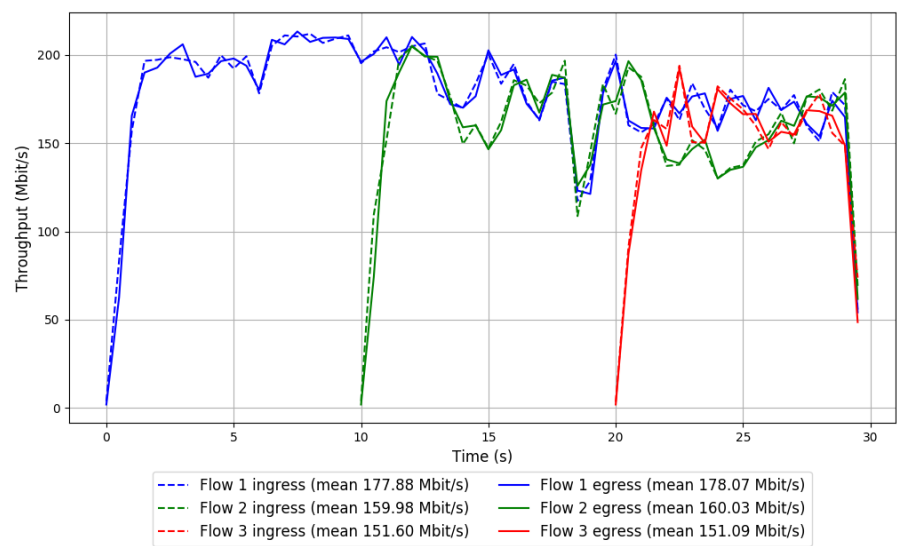
-- Flow 3:

Average throughput: 151.09 Mbit/s

95th percentile per-packet one-way delay: 54.409 ms

Loss rate: 1.36%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-09-22 08:30:31

End at: 2017-09-22 08:31:01

Below is generated by plot.py at 2017-09-22 12:30:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 319.68 Mbit/s

95th percentile per-packet one-way delay: 54.408 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 170.64 Mbit/s

95th percentile per-packet one-way delay: 54.174 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 158.10 Mbit/s

95th percentile per-packet one-way delay: 54.899 ms

Loss rate: 0.47%

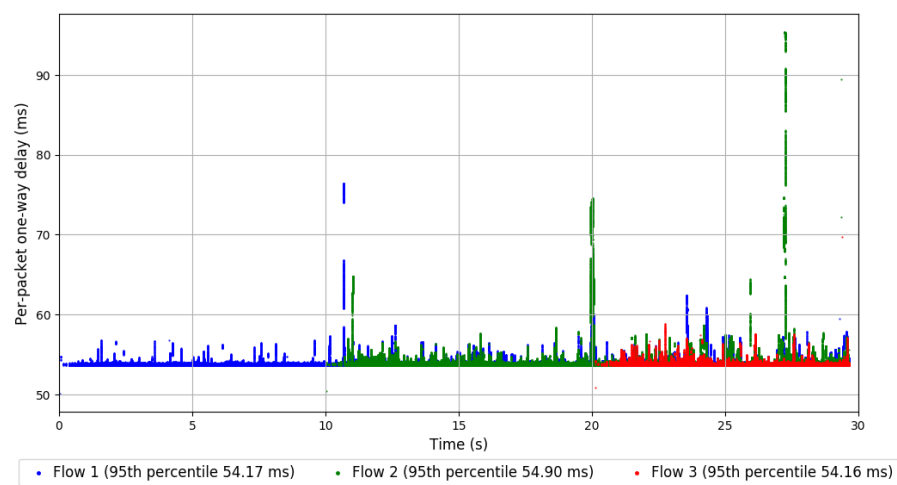
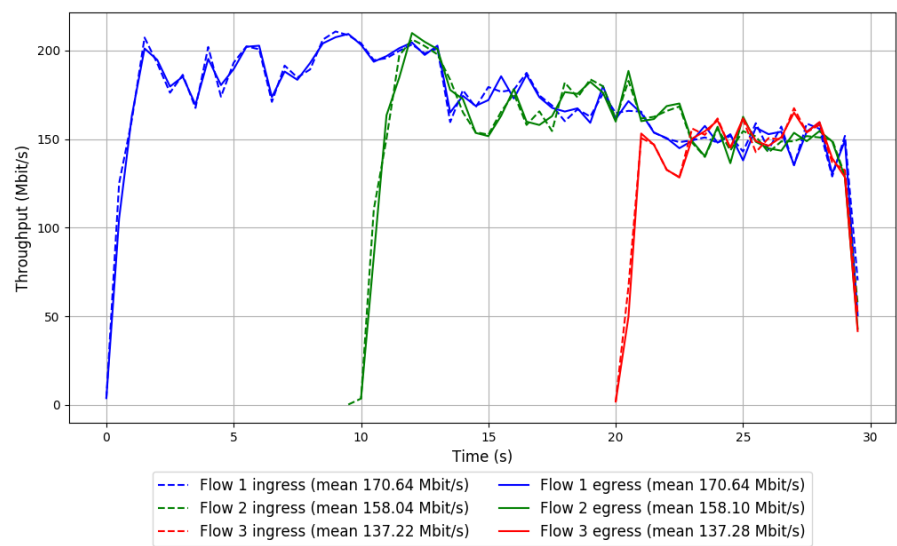
-- Flow 3:

Average throughput: 137.28 Mbit/s

95th percentile per-packet one-way delay: 54.163 ms

Loss rate: 1.04%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-09-22 08:42:56

End at: 2017-09-22 08:43:26

Below is generated by plot.py at 2017-09-22 12:30:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 337.66 Mbit/s

95th percentile per-packet one-way delay: 55.001 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 177.93 Mbit/s

95th percentile per-packet one-way delay: 54.637 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 166.89 Mbit/s

95th percentile per-packet one-way delay: 55.766 ms

Loss rate: 0.53%

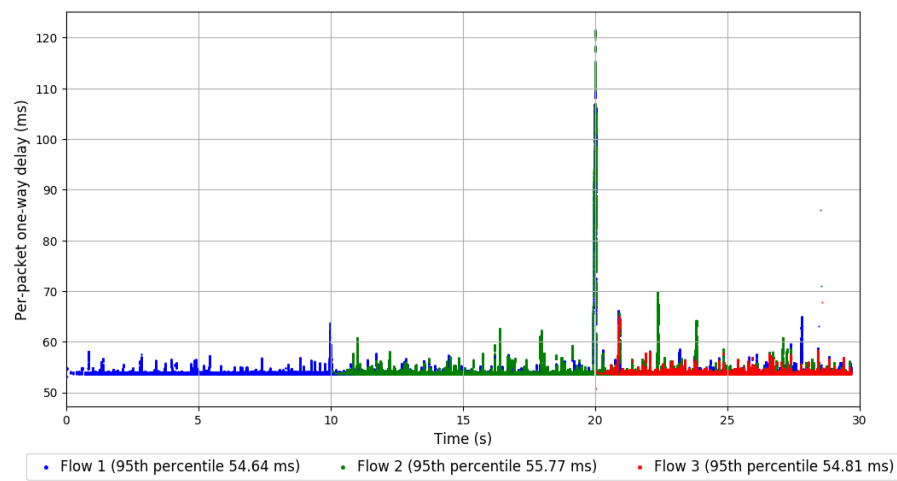
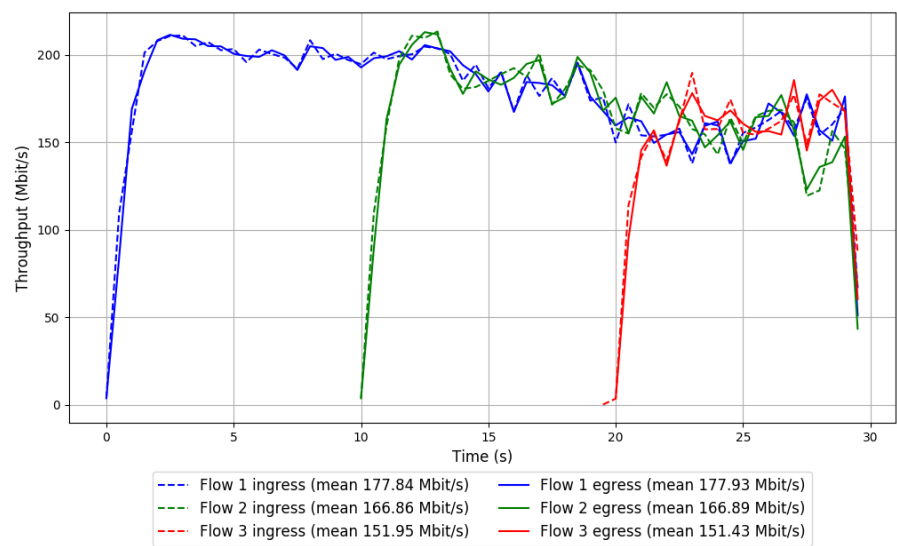
-- Flow 3:

Average throughput: 151.43 Mbit/s

95th percentile per-packet one-way delay: 54.806 ms

Loss rate: 1.38%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-09-22 08:55:29

End at: 2017-09-22 08:55:59

Below is generated by plot.py at 2017-09-22 12:30:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 318.09 Mbit/s

95th percentile per-packet one-way delay: 54.363 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 174.66 Mbit/s

95th percentile per-packet one-way delay: 54.288 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 162.39 Mbit/s

95th percentile per-packet one-way delay: 54.583 ms

Loss rate: 0.52%

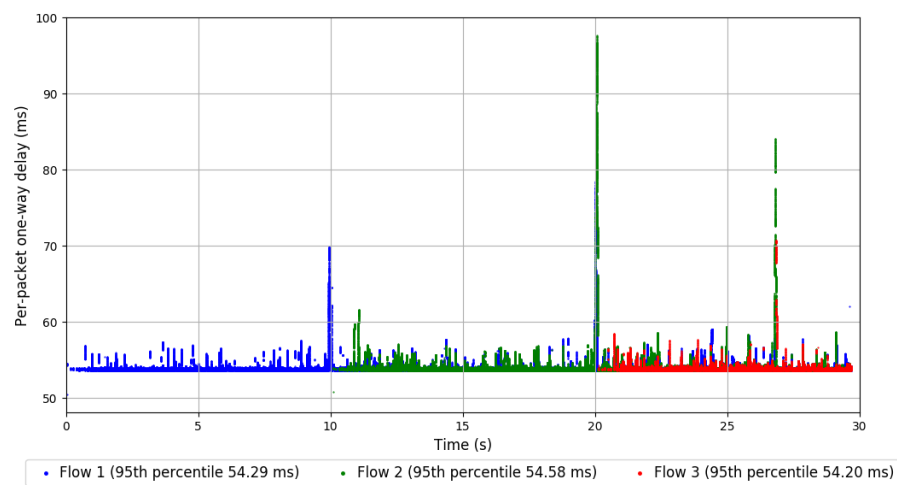
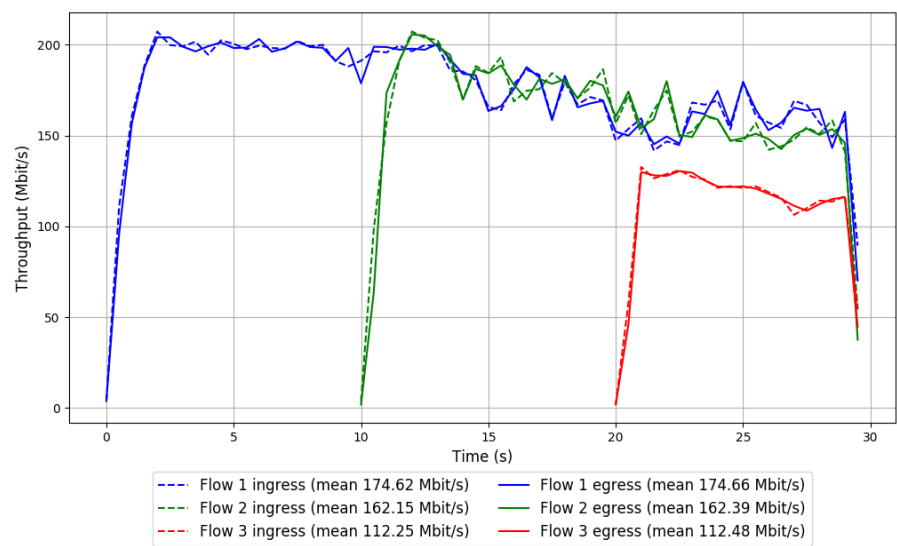
-- Flow 3:

Average throughput: 112.48 Mbit/s

95th percentile per-packet one-way delay: 54.199 ms

Loss rate: 0.99%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-09-22 09:07:53

End at: 2017-09-22 09:08:23

Below is generated by plot.py at 2017-09-22 12:30:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 325.36 Mbit/s

95th percentile per-packet one-way delay: 54.728 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 177.18 Mbit/s

95th percentile per-packet one-way delay: 54.760 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 154.83 Mbit/s

95th percentile per-packet one-way delay: 54.912 ms

Loss rate: 0.40%

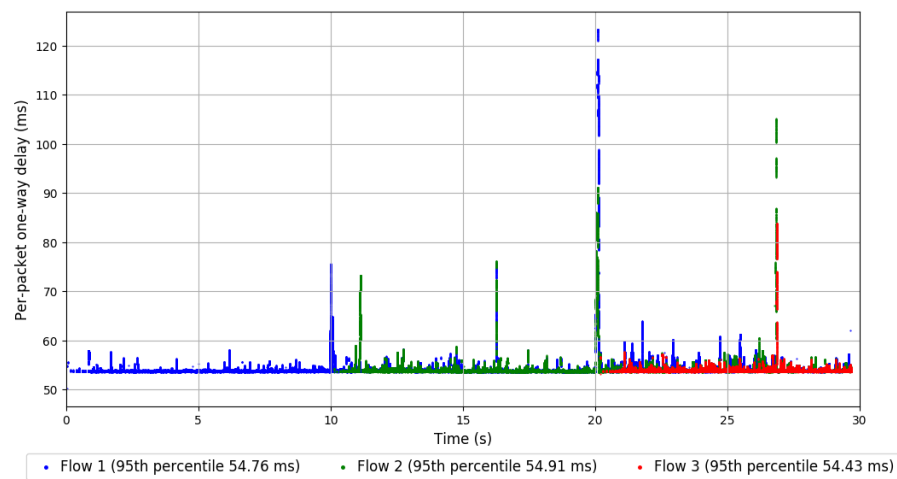
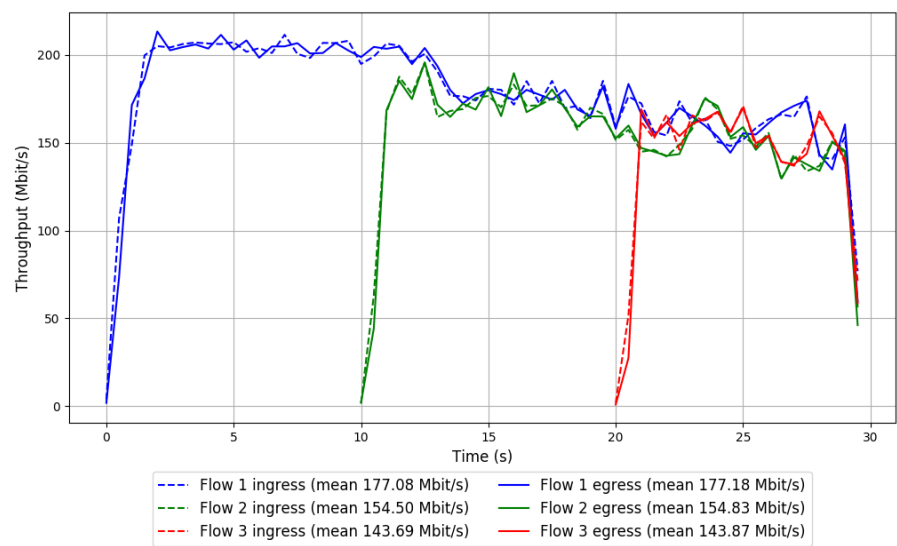
-- Flow 3:

Average throughput: 143.87 Mbit/s

95th percentile per-packet one-way delay: 54.434 ms

Loss rate: 1.00%

Run 10: Report of Indigo — Data Link

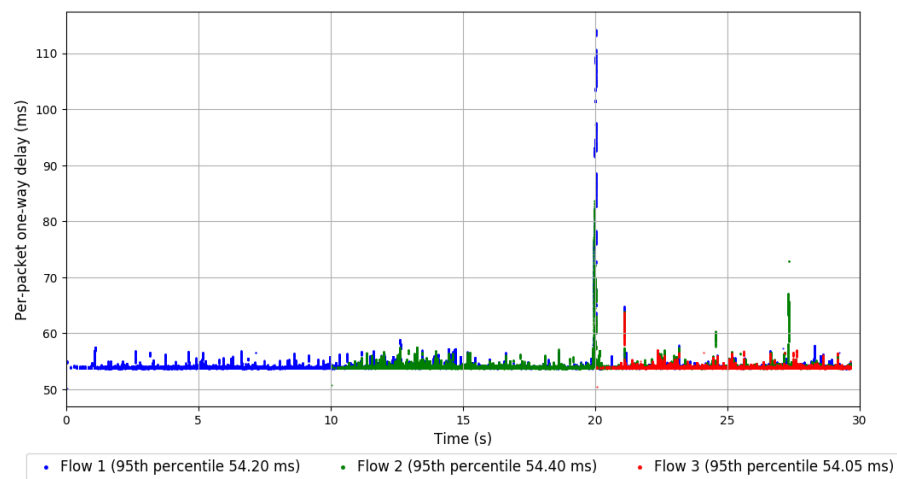
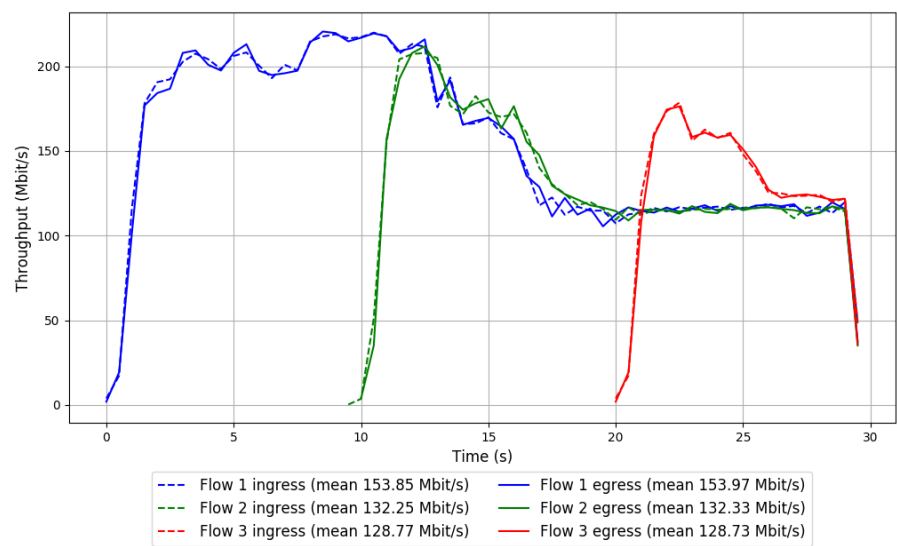


```
Run 1: Statistics of Indigo-calib

Start at: 2017-09-22 07:19:16
End at: 2017-09-22 07:19:46

# Below is generated by plot.py at 2017-09-22 12:30:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 283.34 Mbit/s
95th percentile per-packet one-way delay: 54.235 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 153.97 Mbit/s
95th percentile per-packet one-way delay: 54.203 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 132.33 Mbit/s
95th percentile per-packet one-way delay: 54.402 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 128.73 Mbit/s
95th percentile per-packet one-way delay: 54.055 ms
Loss rate: 1.06%
```


Run 1: Report of Indigo-calib — Data Link

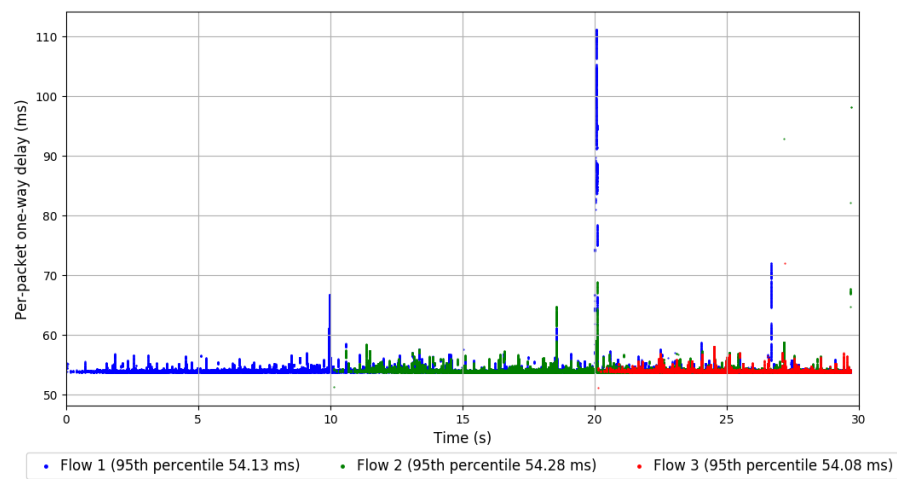
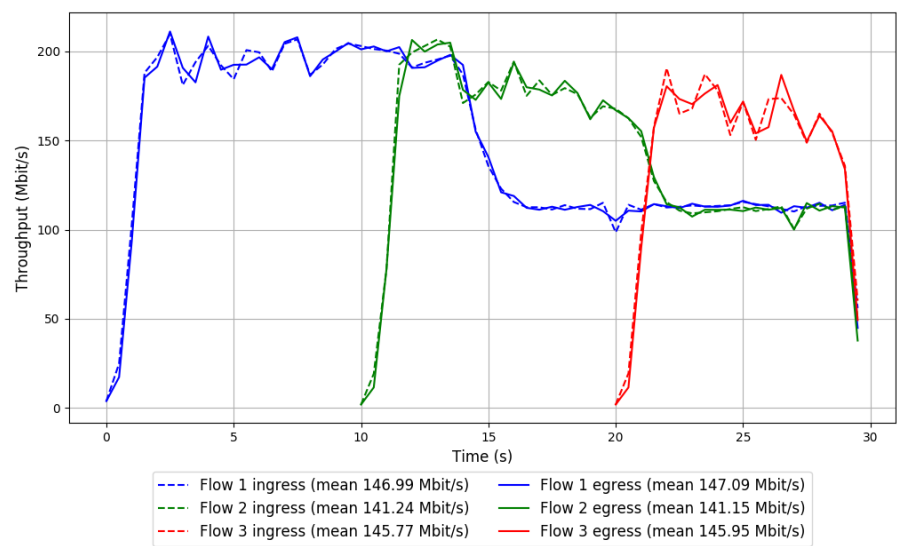


```
Run 2: Statistics of Indigo-calib

Start at: 2017-09-22 07:31:48
End at: 2017-09-22 07:32:18

# Below is generated by plot.py at 2017-09-22 12:30:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 287.23 Mbit/s
95th percentile per-packet one-way delay: 54.168 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 147.09 Mbit/s
95th percentile per-packet one-way delay: 54.131 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 141.15 Mbit/s
95th percentile per-packet one-way delay: 54.277 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 145.95 Mbit/s
95th percentile per-packet one-way delay: 54.076 ms
Loss rate: 0.94%
```

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-09-22 07:44:14

End at: 2017-09-22 07:44:44

Below is generated by plot.py at 2017-09-22 12:31:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.65 Mbit/s

95th percentile per-packet one-way delay: 54.243 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 153.01 Mbit/s

95th percentile per-packet one-way delay: 54.109 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 149.49 Mbit/s

95th percentile per-packet one-way delay: 54.595 ms

Loss rate: 0.41%

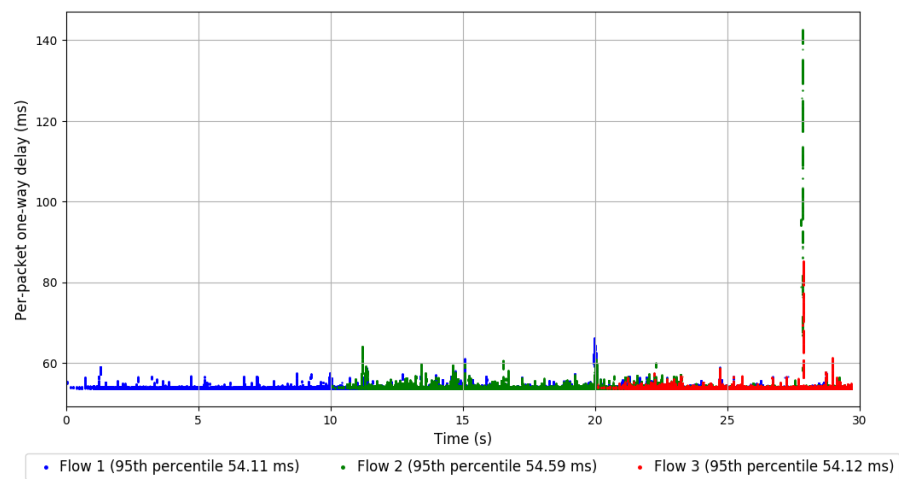
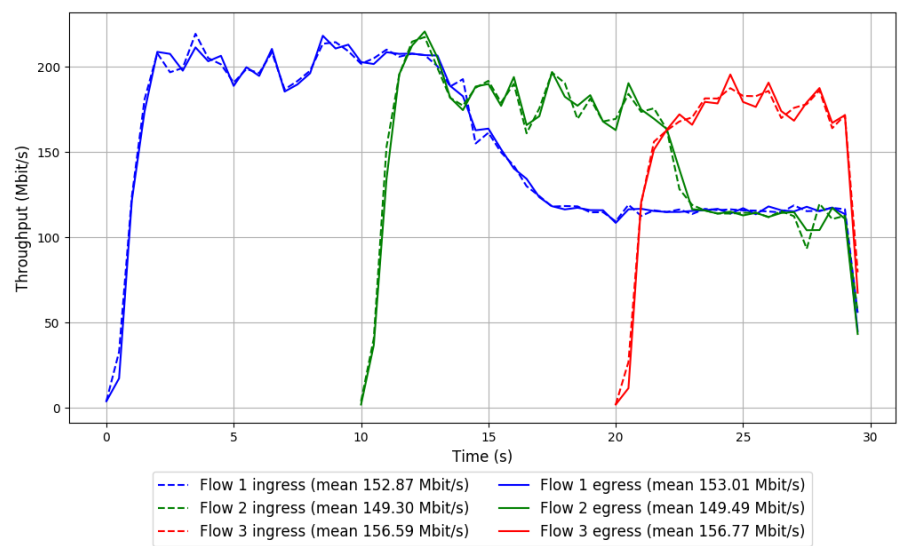
-- Flow 3:

Average throughput: 156.77 Mbit/s

95th percentile per-packet one-way delay: 54.119 ms

Loss rate: 1.01%

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-09-22 07:56:39

End at: 2017-09-22 07:57:09

Below is generated by plot.py at 2017-09-22 12:34:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 284.30 Mbit/s

95th percentile per-packet one-way delay: 54.040 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 154.30 Mbit/s

95th percentile per-packet one-way delay: 53.987 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 132.52 Mbit/s

95th percentile per-packet one-way delay: 54.198 ms

Loss rate: 0.49%

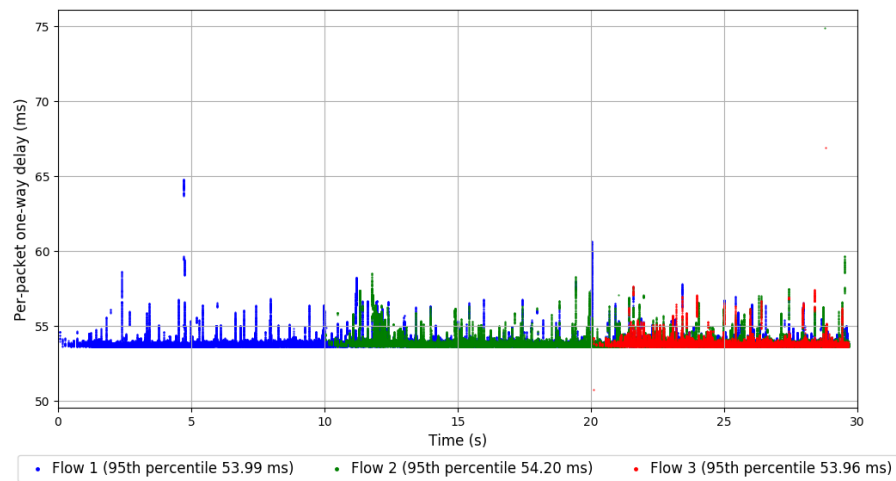
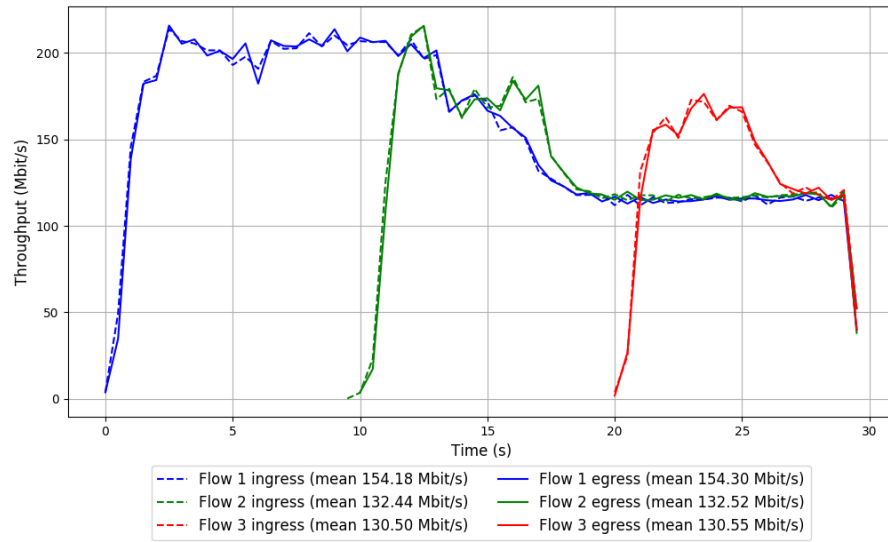
-- Flow 3:

Average throughput: 130.55 Mbit/s

95th percentile per-packet one-way delay: 53.963 ms

Loss rate: 1.03%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-09-22 08:08:58

End at: 2017-09-22 08:09:28

Below is generated by plot.py at 2017-09-22 12:35:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 313.37 Mbit/s

95th percentile per-packet one-way delay: 54.184 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 164.70 Mbit/s

95th percentile per-packet one-way delay: 54.069 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 146.30 Mbit/s

95th percentile per-packet one-way delay: 54.403 ms

Loss rate: 0.40%

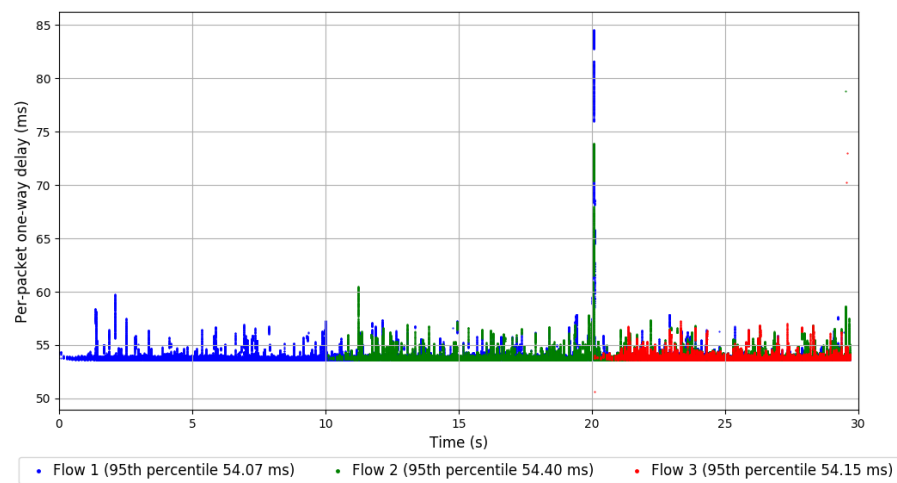
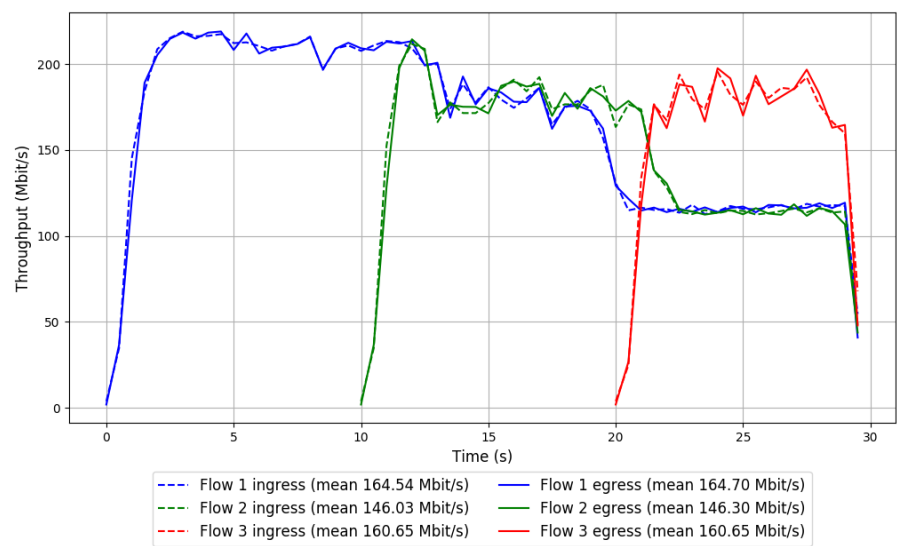
-- Flow 3:

Average throughput: 160.65 Mbit/s

95th percentile per-packet one-way delay: 54.154 ms

Loss rate: 1.06%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-09-22 08:21:23

End at: 2017-09-22 08:21:53

Below is generated by plot.py at 2017-09-22 12:35:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 306.49 Mbit/s

95th percentile per-packet one-way delay: 54.083 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 154.99 Mbit/s

95th percentile per-packet one-way delay: 54.000 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 151.58 Mbit/s

95th percentile per-packet one-way delay: 54.174 ms

Loss rate: 0.41%

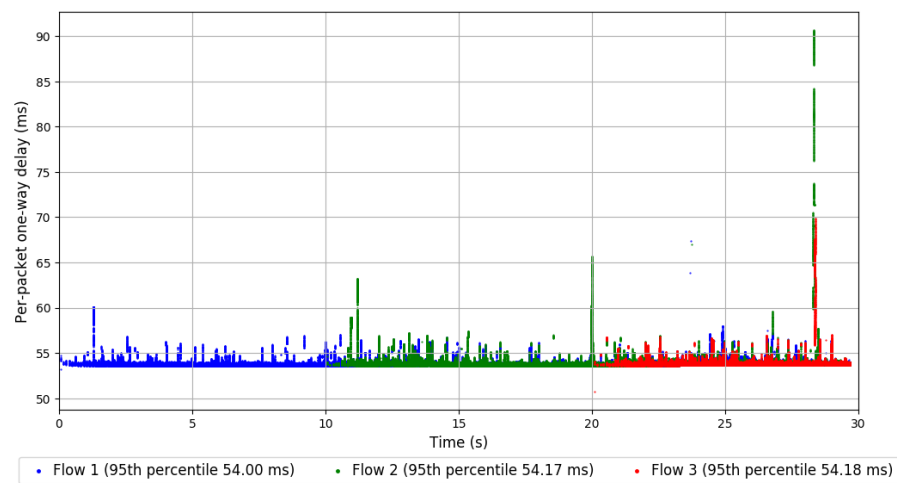
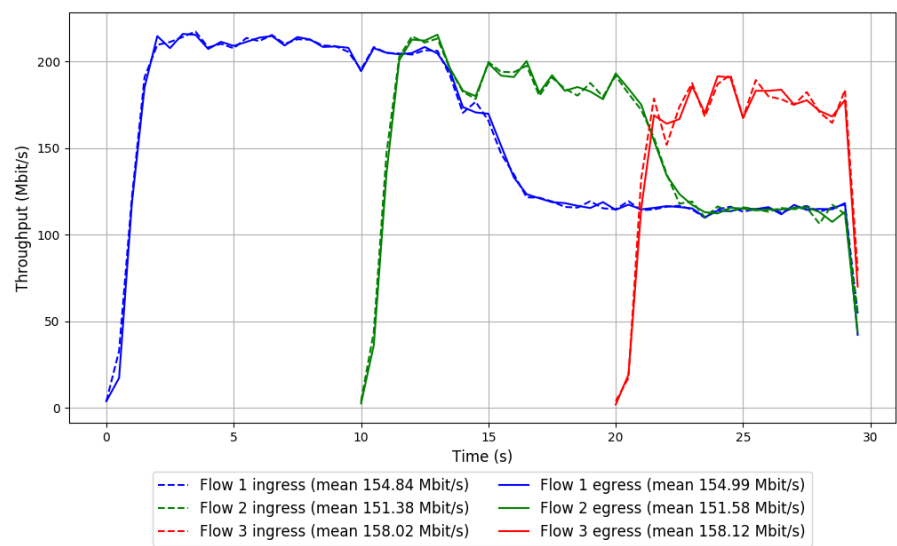
-- Flow 3:

Average throughput: 158.12 Mbit/s

95th percentile per-packet one-way delay: 54.176 ms

Loss rate: 1.02%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-09-22 08:33:50

End at: 2017-09-22 08:34:20

Below is generated by plot.py at 2017-09-22 12:35:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 272.36 Mbit/s

95th percentile per-packet one-way delay: 54.109 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 148.24 Mbit/s

95th percentile per-packet one-way delay: 54.079 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 127.37 Mbit/s

95th percentile per-packet one-way delay: 54.304 ms

Loss rate: 0.49%

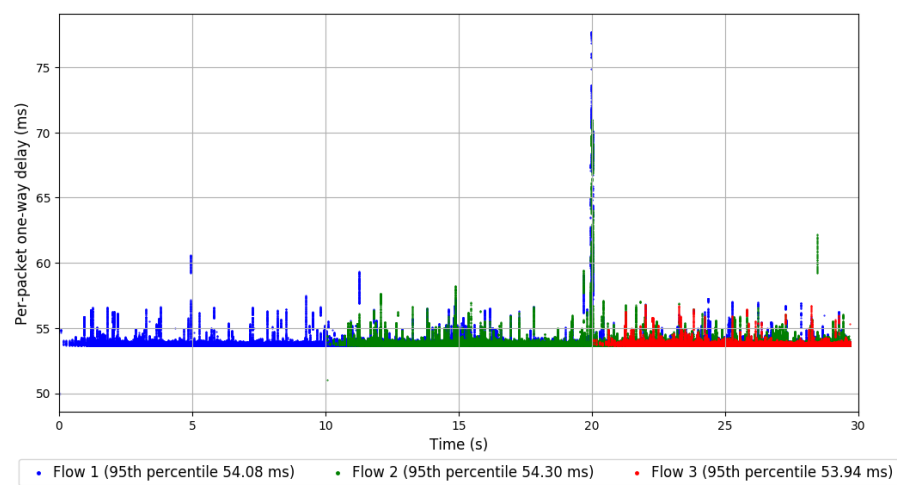
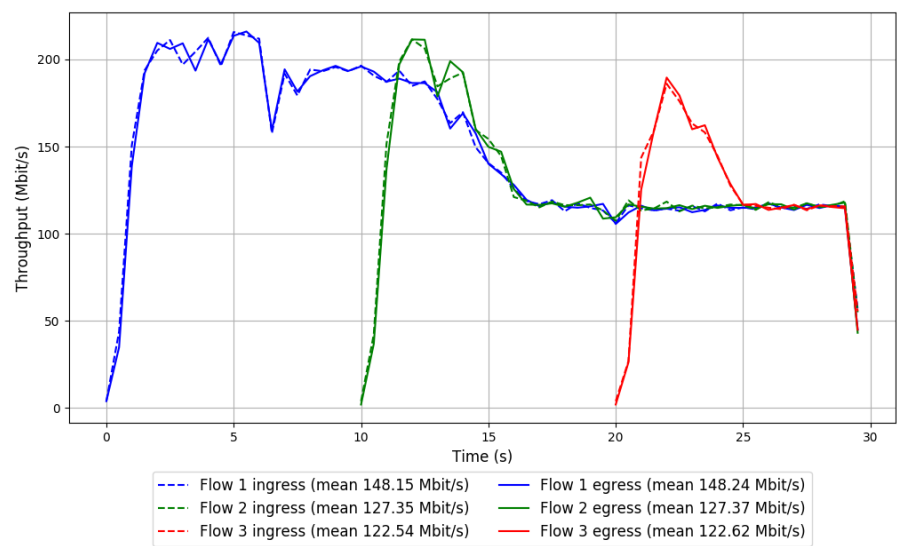
-- Flow 3:

Average throughput: 122.62 Mbit/s

95th percentile per-packet one-way delay: 53.941 ms

Loss rate: 1.03%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-09-22 08:46:19

End at: 2017-09-22 08:46:49

Below is generated by plot.py at 2017-09-22 12:35:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 292.41 Mbit/s

95th percentile per-packet one-way delay: 54.174 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 168.32 Mbit/s

95th percentile per-packet one-way delay: 54.173 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 133.48 Mbit/s

95th percentile per-packet one-way delay: 54.245 ms

Loss rate: 0.43%

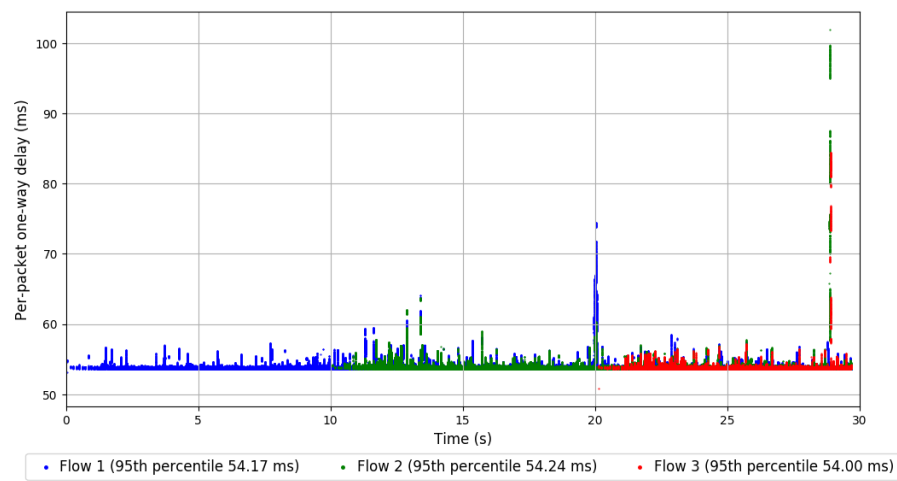
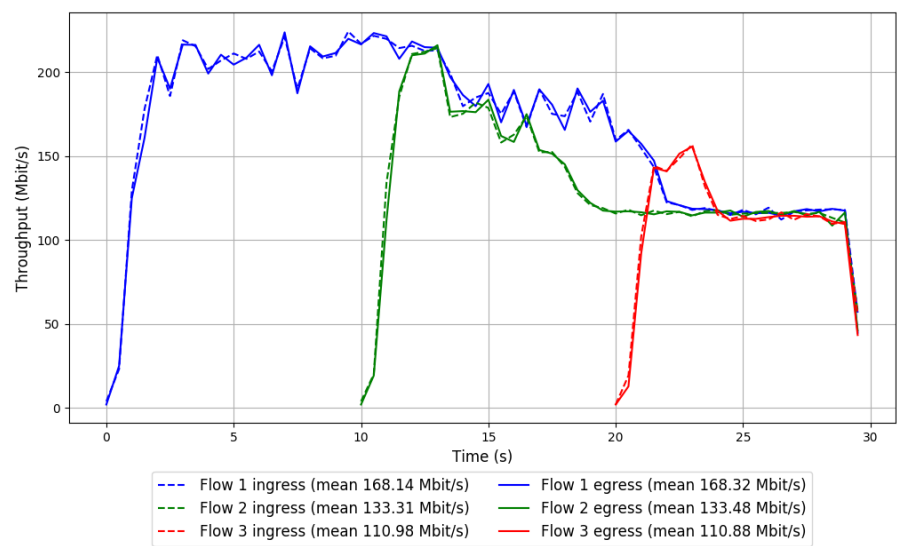
-- Flow 3:

Average throughput: 110.88 Mbit/s

95th percentile per-packet one-way delay: 54.001 ms

Loss rate: 1.15%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-09-22 08:58:49

End at: 2017-09-22 08:59:19

Below is generated by plot.py at 2017-09-22 12:35:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 276.97 Mbit/s

95th percentile per-packet one-way delay: 54.023 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 153.64 Mbit/s

95th percentile per-packet one-way delay: 53.936 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 127.77 Mbit/s

95th percentile per-packet one-way delay: 54.205 ms

Loss rate: 0.50%

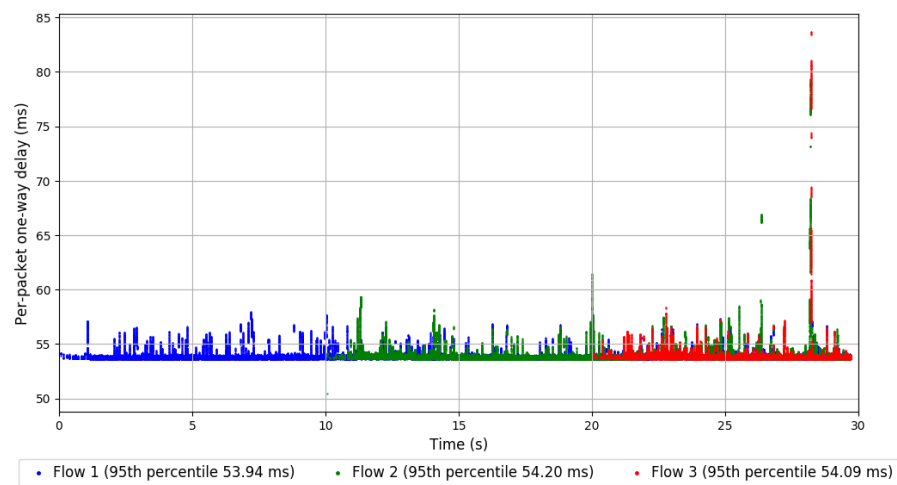
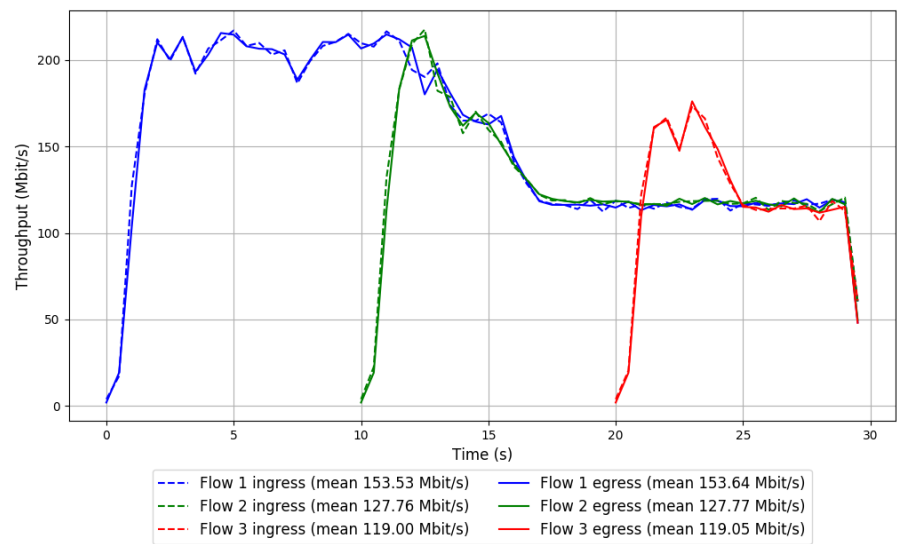
-- Flow 3:

Average throughput: 119.05 Mbit/s

95th percentile per-packet one-way delay: 54.093 ms

Loss rate: 1.04%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-09-22 09:11:06

End at: 2017-09-22 09:11:36

Below is generated by plot.py at 2017-09-22 12:36:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 305.72 Mbit/s

95th percentile per-packet one-way delay: 54.128 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 157.11 Mbit/s

95th percentile per-packet one-way delay: 54.045 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 148.47 Mbit/s

95th percentile per-packet one-way delay: 54.400 ms

Loss rate: 0.43%

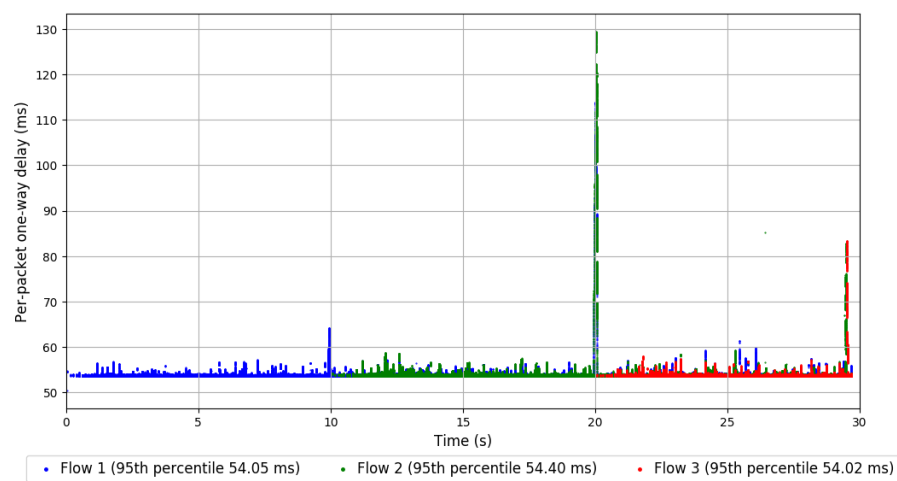
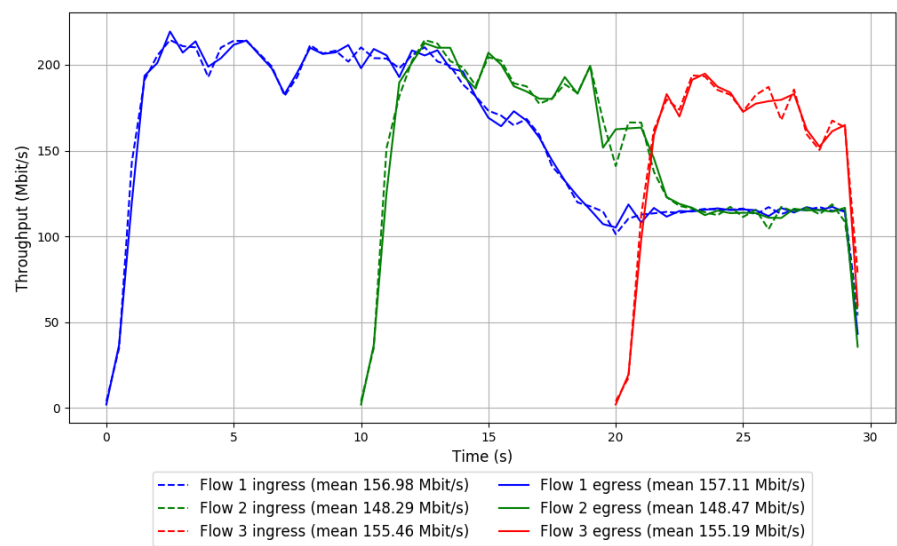
-- Flow 3:

Average throughput: 155.19 Mbit/s

95th percentile per-packet one-way delay: 54.020 ms

Loss rate: 1.30%

Run 10: Report of Indigo-calib — Data Link

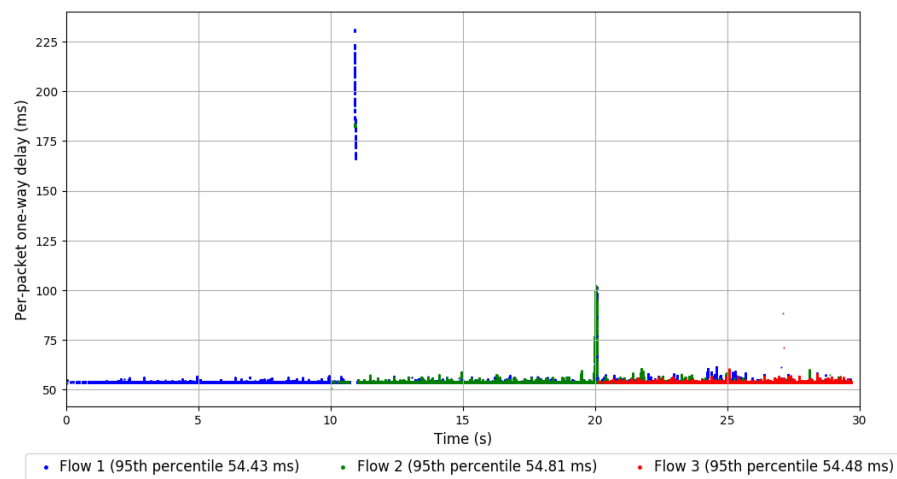
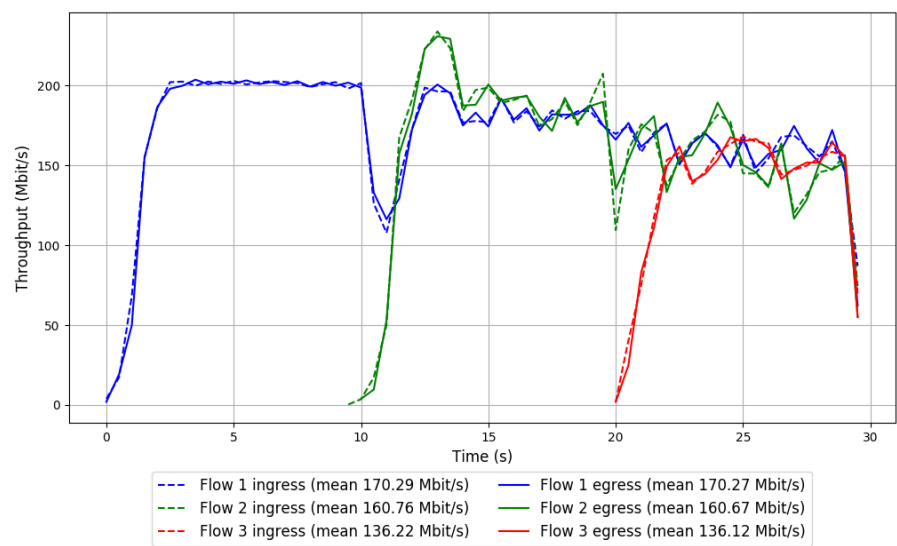


```
Run 1: Statistics of Indigo-delay

Start at: 2017-09-22 07:23:30
End at: 2017-09-22 07:24:00

# Below is generated by plot.py at 2017-09-22 12:37:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 320.62 Mbit/s
95th percentile per-packet one-way delay: 54.571 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 170.27 Mbit/s
95th percentile per-packet one-way delay: 54.431 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 160.67 Mbit/s
95th percentile per-packet one-way delay: 54.815 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 136.12 Mbit/s
95th percentile per-packet one-way delay: 54.477 ms
Loss rate: 1.20%
```

Run 1: Report of Indigo-delay — Data Link

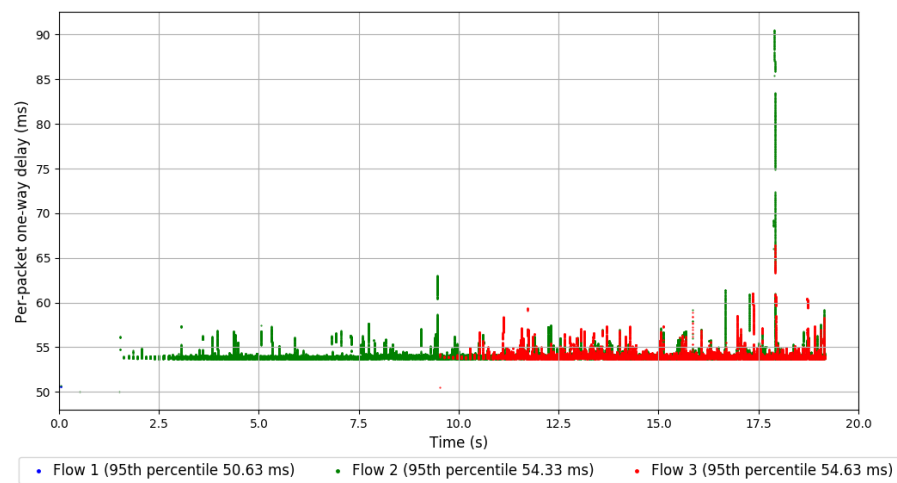
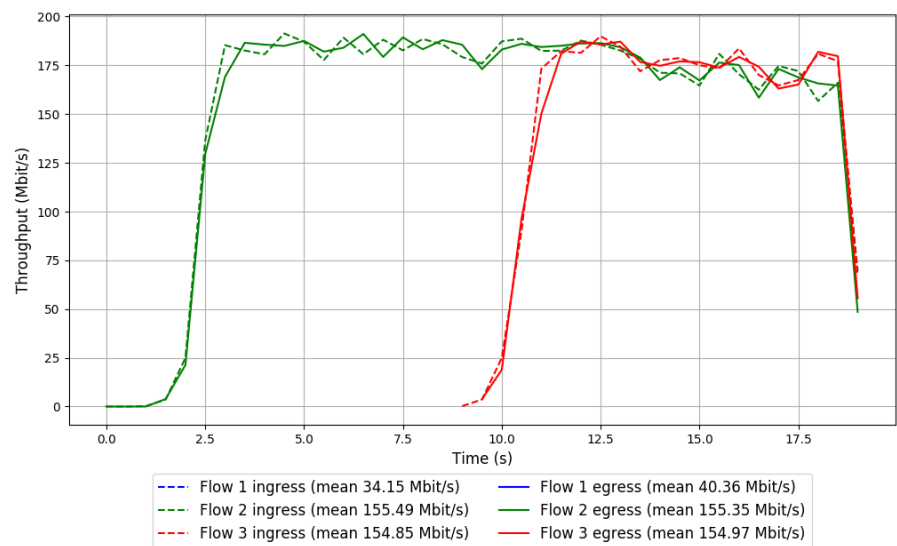


Run 2: Statistics of Indigo-delay

Start at: 2017-09-22 07:36:07

End at: 2017-09-22 07:36:37

Run 2: Report of Indigo-delay — Data Link

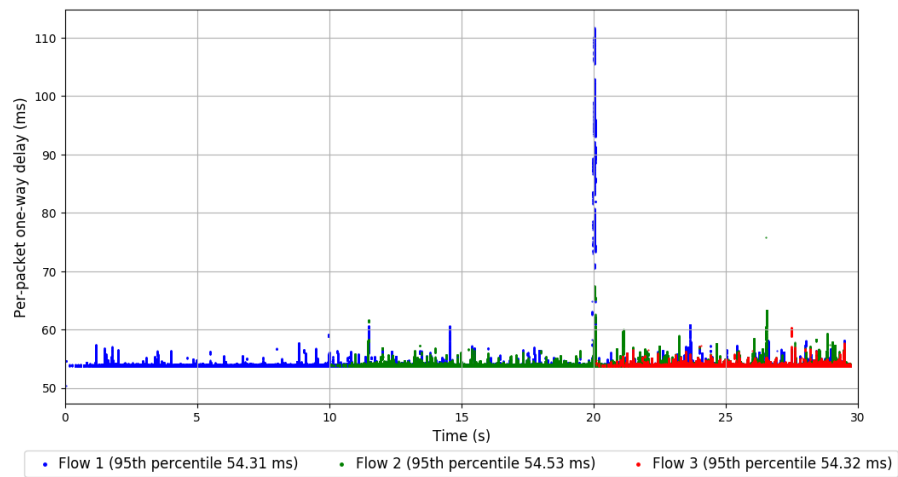
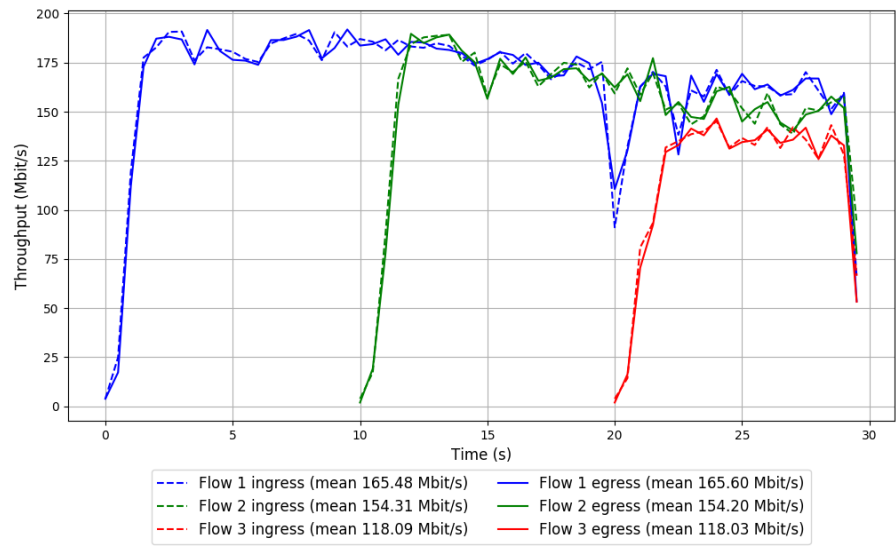


```
Run 3: Statistics of Indigo-delay

Start at: 2017-09-22 07:48:29
End at: 2017-09-22 07:48:59

# Below is generated by plot.py at 2017-09-22 12:39:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 306.01 Mbit/s
95th percentile per-packet one-way delay: 54.381 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 165.60 Mbit/s
95th percentile per-packet one-way delay: 54.307 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 154.20 Mbit/s
95th percentile per-packet one-way delay: 54.527 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 118.03 Mbit/s
95th percentile per-packet one-way delay: 54.319 ms
Loss rate: 1.16%
```


Run 3: Report of Indigo-delay — Data Link

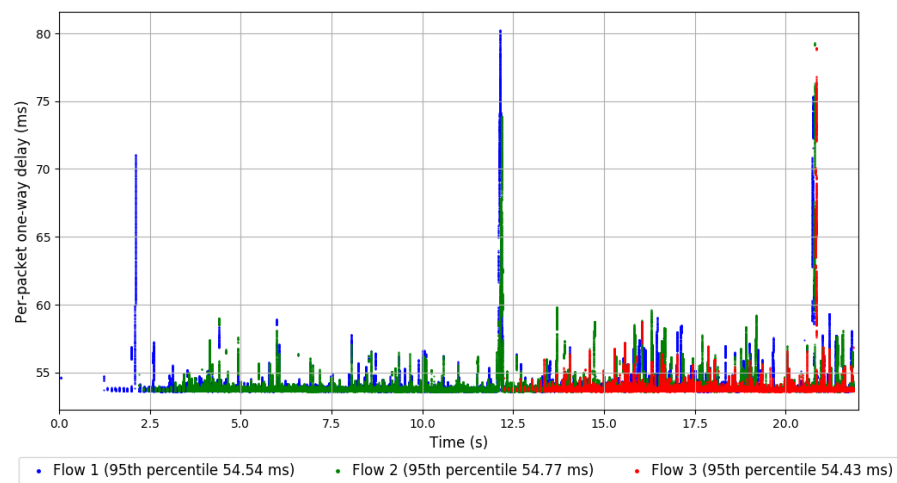
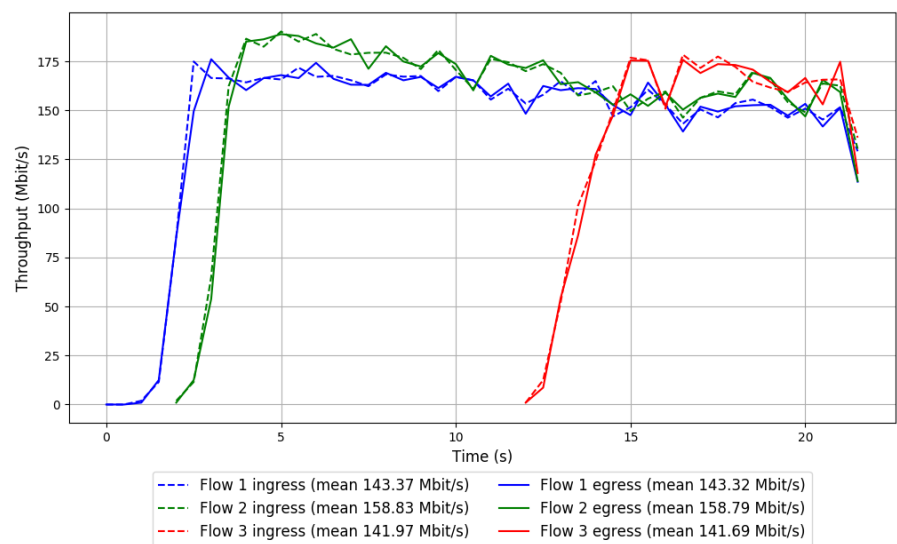


Run 4: Statistics of Indigo-delay

Start at: 2017-09-22 08:01:05

End at: 2017-09-22 08:01:35

Run 4: Report of Indigo-delay — Data Link



Run 5: Statistics of Indigo-delay

Start at: 2017-09-22 08:13:13

End at: 2017-09-22 08:13:43

Below is generated by plot.py at 2017-09-22 12:40:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 306.12 Mbit/s

95th percentile per-packet one-way delay: 54.357 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 165.28 Mbit/s

95th percentile per-packet one-way delay: 54.218 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 153.88 Mbit/s

95th percentile per-packet one-way delay: 54.722 ms

Loss rate: 0.49%

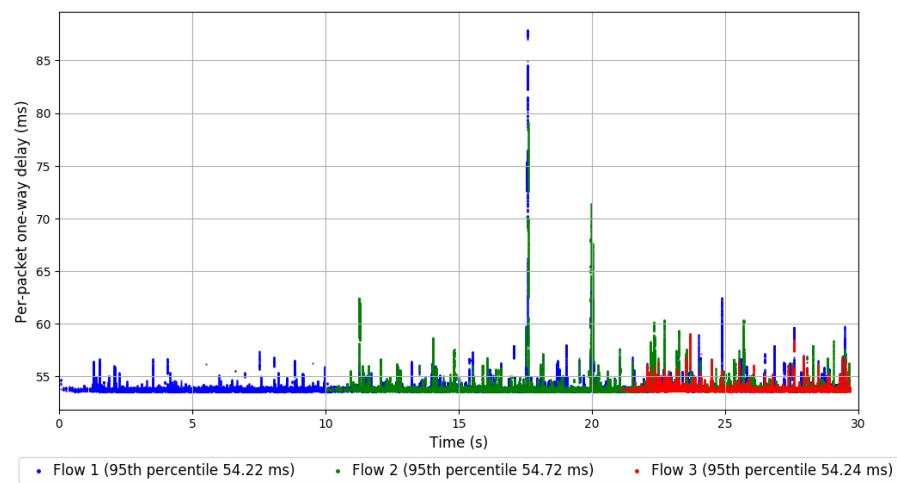
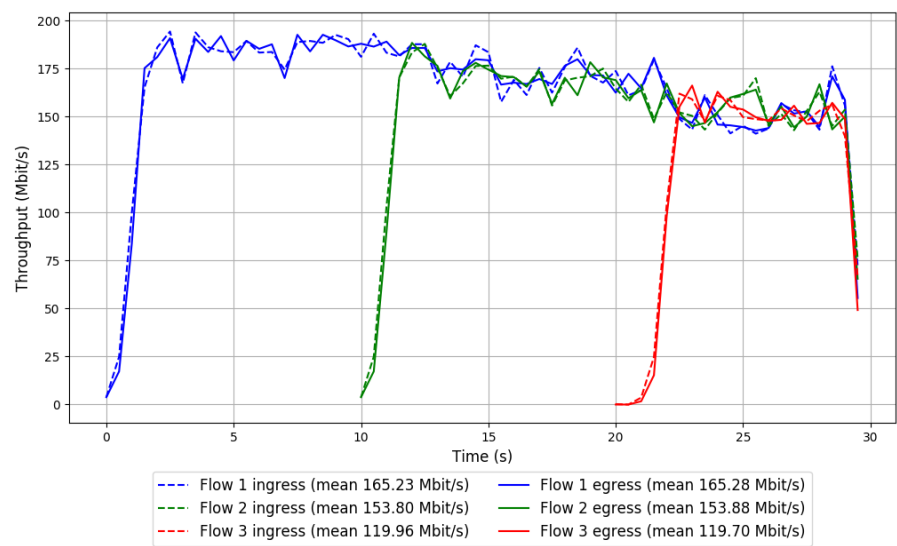
-- Flow 3:

Average throughput: 119.70 Mbit/s

95th percentile per-packet one-way delay: 54.244 ms

Loss rate: 1.32%

Run 5: Report of Indigo-delay — Data Link

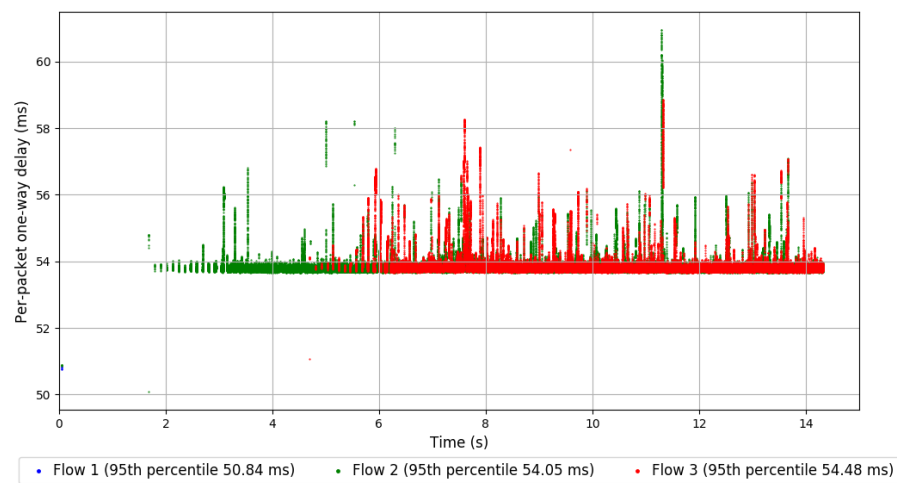
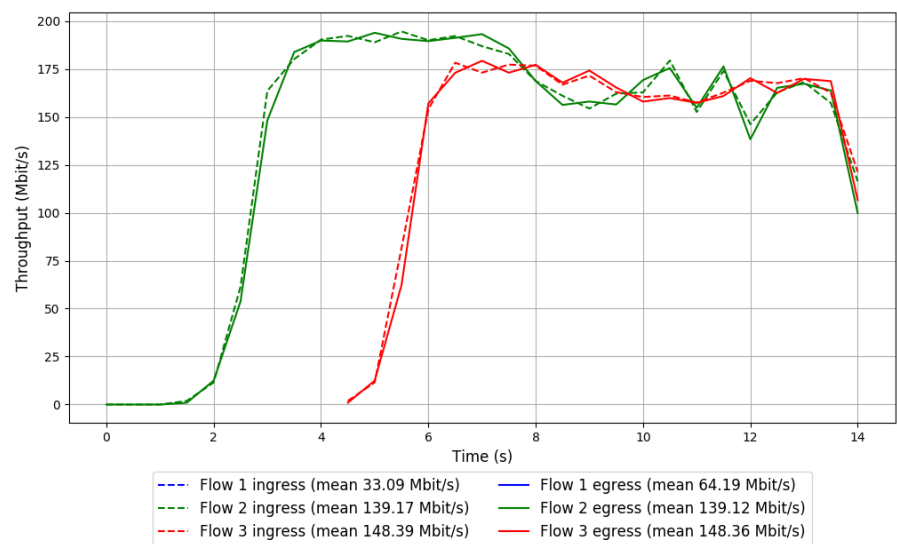


Run 6: Statistics of Indigo-delay

Start at: 2017-09-22 08:25:43

End at: 2017-09-22 08:26:13

Run 6: Report of Indigo-delay — Data Link

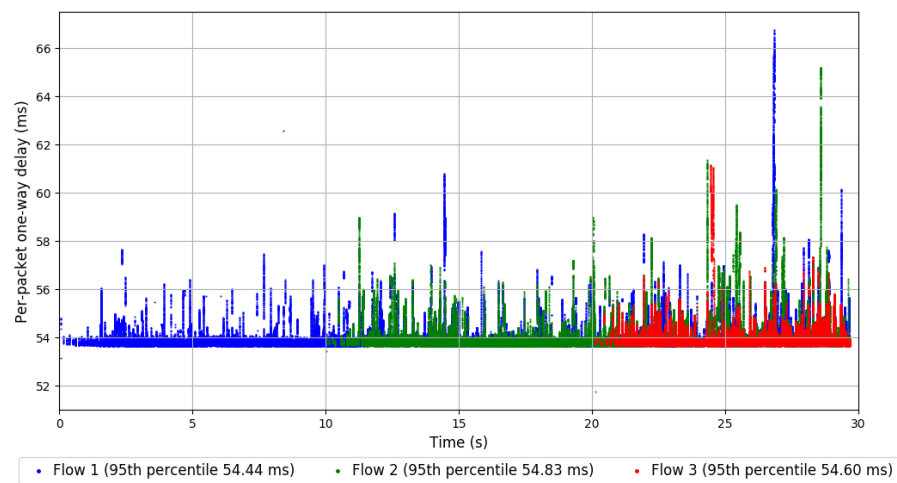
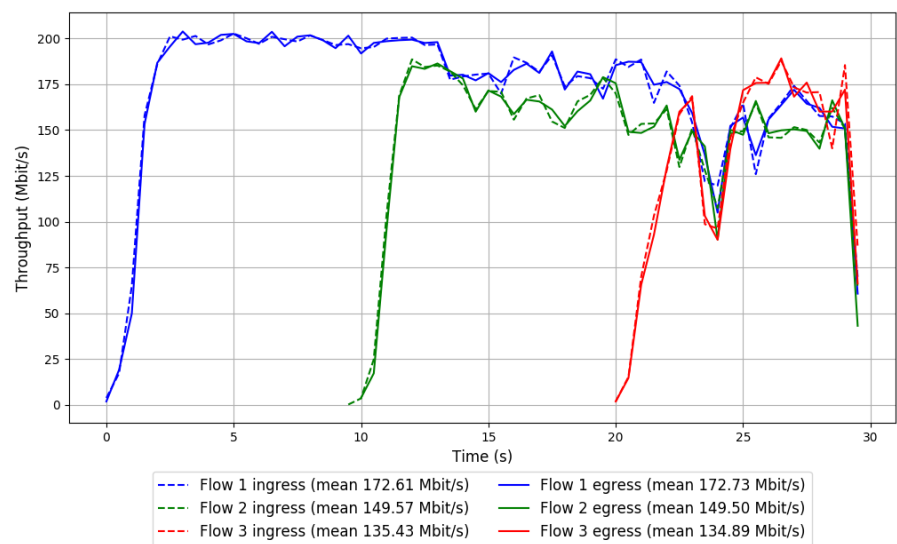


```
Run 7: Statistics of Indigo-delay

Start at: 2017-09-22 08:38:01
End at: 2017-09-22 08:38:31

# Below is generated by plot.py at 2017-09-22 12:40:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 315.39 Mbit/s
95th percentile per-packet one-way delay: 54.583 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 172.73 Mbit/s
95th percentile per-packet one-way delay: 54.438 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 149.50 Mbit/s
95th percentile per-packet one-way delay: 54.828 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 134.89 Mbit/s
95th percentile per-packet one-way delay: 54.603 ms
Loss rate: 1.50%
```


Run 7: Report of Indigo-delay — Data Link



Run 8: Statistics of Indigo-delay

Start at: 2017-09-22 08:50:38

End at: 2017-09-22 08:51:08

Below is generated by plot.py at 2017-09-22 12:40:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 319.93 Mbit/s

95th percentile per-packet one-way delay: 54.831 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 158.53 Mbit/s

95th percentile per-packet one-way delay: 54.624 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 157.99 Mbit/s

95th percentile per-packet one-way delay: 55.353 ms

Loss rate: 0.53%

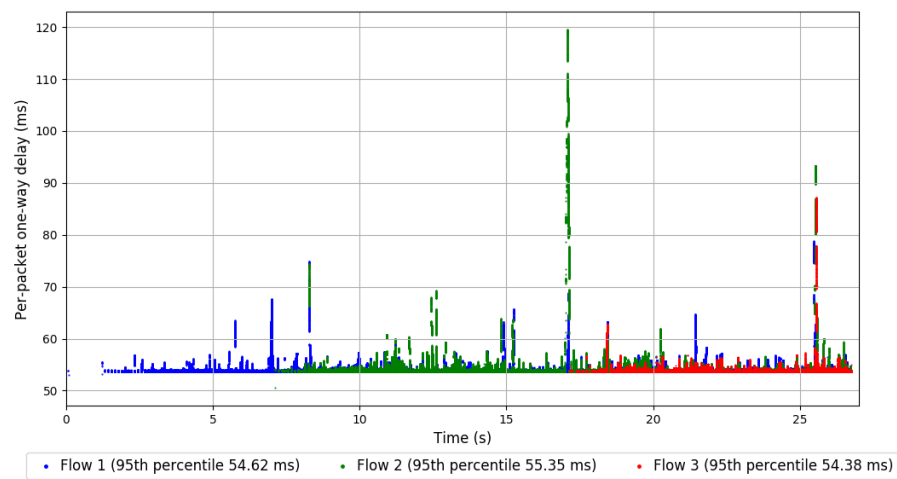
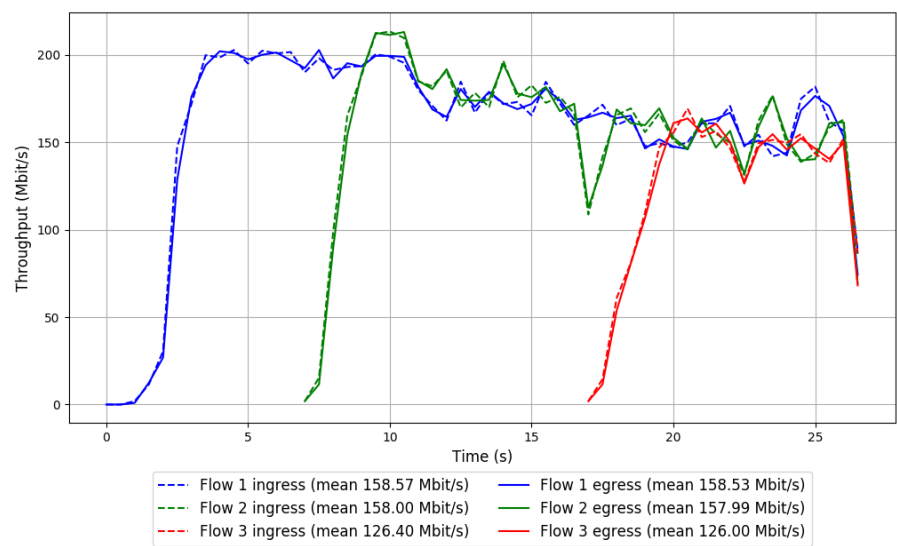
-- Flow 3:

Average throughput: 126.00 Mbit/s

95th percentile per-packet one-way delay: 54.379 ms

Loss rate: 1.42%

Run 8: Report of Indigo-delay — Data Link

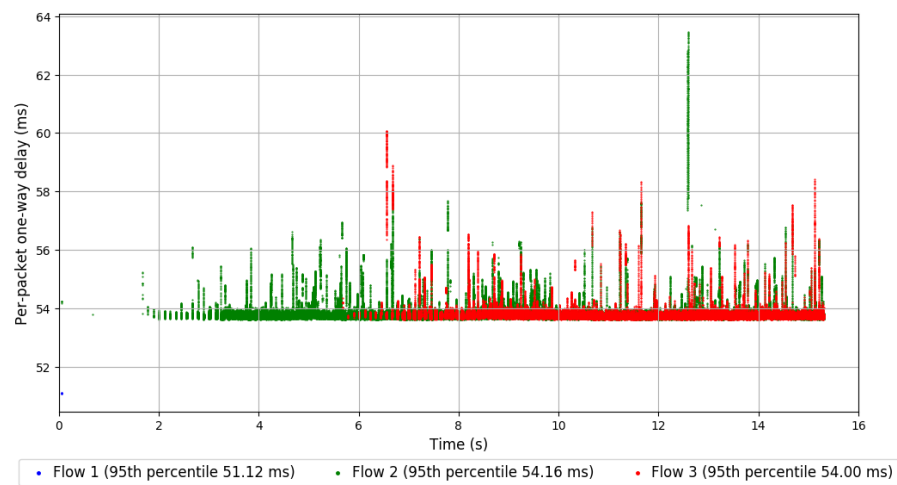
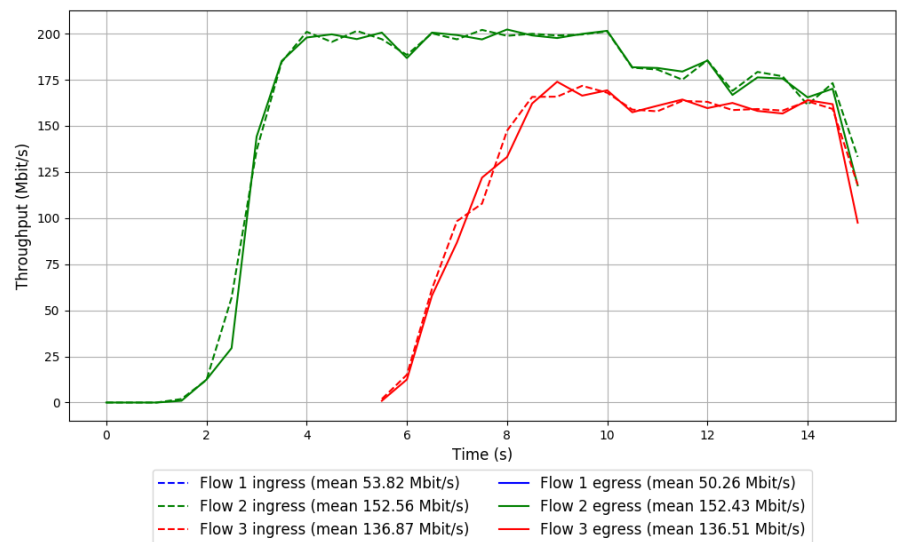


Run 9: Statistics of Indigo-delay

Start at: 2017-09-22 09:03:08

End at: 2017-09-22 09:03:38

Run 9: Report of Indigo-delay — Data Link



Run 10: Statistics of Indigo-delay

Start at: 2017-09-22 09:15:20

End at: 2017-09-22 09:15:50

Below is generated by plot.py at 2017-09-22 12:40:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 307.49 Mbit/s

95th percentile per-packet one-way delay: 54.232 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 166.23 Mbit/s

95th percentile per-packet one-way delay: 54.253 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 151.67 Mbit/s

95th percentile per-packet one-way delay: 54.278 ms

Loss rate: 0.58%

-- Flow 3:

Average throughput: 126.38 Mbit/s

95th percentile per-packet one-way delay: 54.091 ms

Loss rate: 1.21%

Run 10: Report of Indigo-delay — Data Link

