

Pantheon Report

Generated at 2017-11-17 06:04:55 (UTC).

Data path: GCE Iowa Ethernet (*local*) → GCE London Ethernet (*remote*).

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.

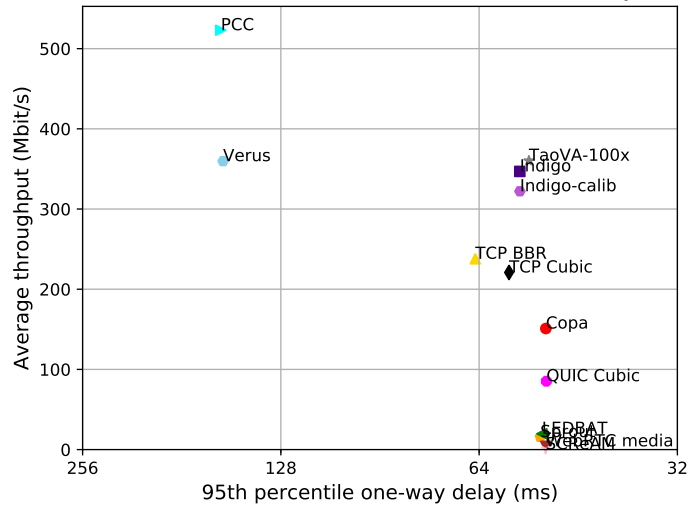
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

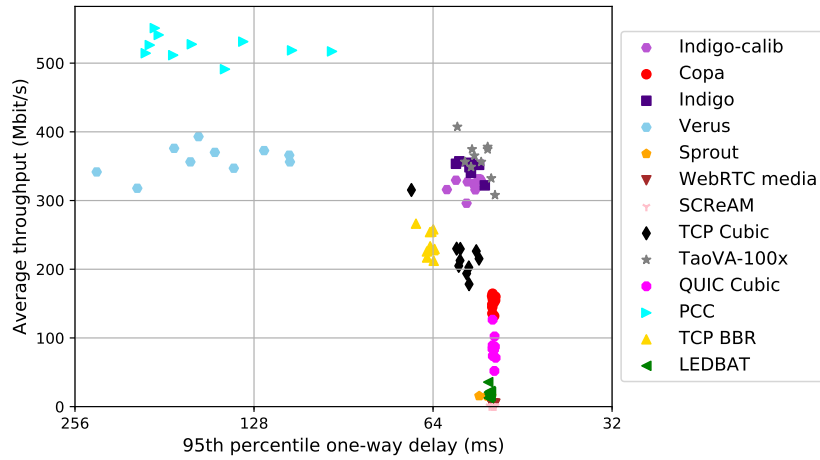
Git summary:

```
branch: indigos @ f54f2953f2a9765c9ffa988d13de5a9471790eb0
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 @ 03455460fd1a8ffbdad86fab936fdca204b80db
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-quick @ 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 Iowa Ethernet to GCE London Ethernet, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE Iowa Ethernet to GCE London 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	117.35	113.60	136.24	63.51	65.00	66.62	0.13	0.04	0.08
TCP Cubic	10	105.68	109.46	127.60	56.48	56.89	58.03	0.10	0.04	0.19
LEDBAT	10	9.22	11.46	8.68	51.36	51.41	51.33	0.62	0.48	0.32
PCC	10	500.60	27.53	12.46	158.15	154.35	152.59	1.10	1.17	1.18
QUIC Cubic	10	46.19	43.98	30.29	50.41	50.44	50.39	0.00	0.00	0.00
SCReAM	10	0.22	0.22	0.22	50.67	50.60	50.29	0.00	0.00	0.00
WebRTC media	10	2.04	1.43	0.59	50.64	50.64	50.73	0.00	0.00	0.00
Sprout	10	7.90	7.84	7.60	51.75	51.74	51.64	0.11	0.04	0.01
TaoVA-100x	10	203.13	182.88	139.75	52.68	54.69	54.58	0.01	0.00	0.00
TCP Vegas	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Verus	10	221.01	147.43	124.97	155.43	165.28	158.95	0.81	0.99	1.56
Copa	10	74.94	82.17	81.92	50.65	50.58	50.52	0.01	0.01	0.05
Indigo	7	180.53	173.11	145.92	54.57	55.64	56.71	0.00	0.04	0.00
Indigo-calib	10	166.01	165.24	143.51	53.64	55.92	58.43	0.01	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2017-11-17 01:40:44

End at: 2017-11-17 01:41:14

Below is generated by plot.py at 2017-11-17 05:03:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 229.51 Mbit/s

95th percentile per-packet one-way delay: 63.623 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 111.45 Mbit/s

95th percentile per-packet one-way delay: 62.960 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 109.54 Mbit/s

95th percentile per-packet one-way delay: 63.658 ms

Loss rate: 0.00%

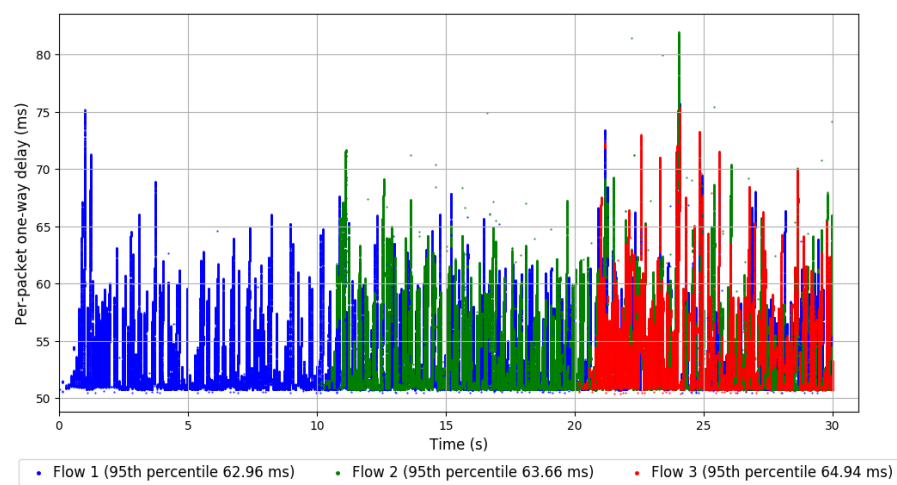
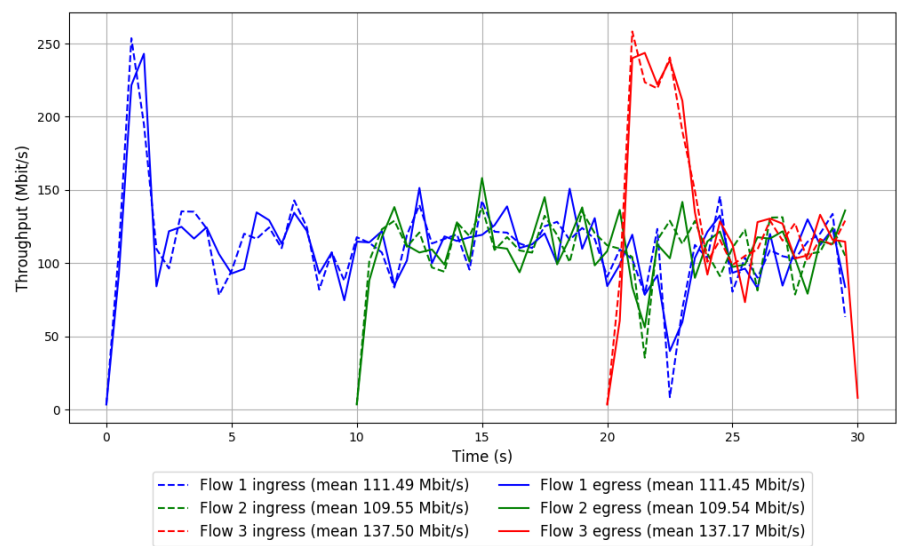
-- Flow 3:

Average throughput: 137.17 Mbit/s

95th percentile per-packet one-way delay: 64.943 ms

Loss rate: 0.23%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-17 01:52:49

End at: 2017-11-17 01:53:19

Below is generated by plot.py at 2017-11-17 05:03:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 227.82 Mbit/s

95th percentile per-packet one-way delay: 63.927 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 114.15 Mbit/s

95th percentile per-packet one-way delay: 63.238 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 109.35 Mbit/s

95th percentile per-packet one-way delay: 64.591 ms

Loss rate: 0.00%

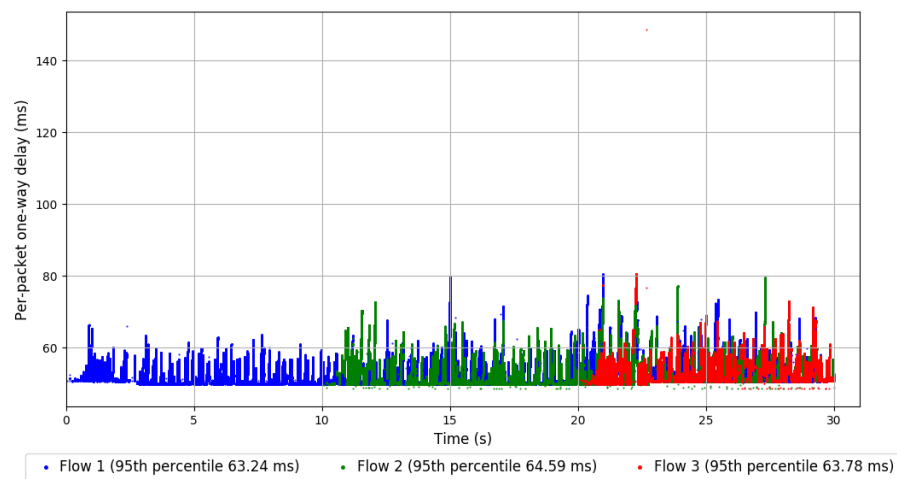
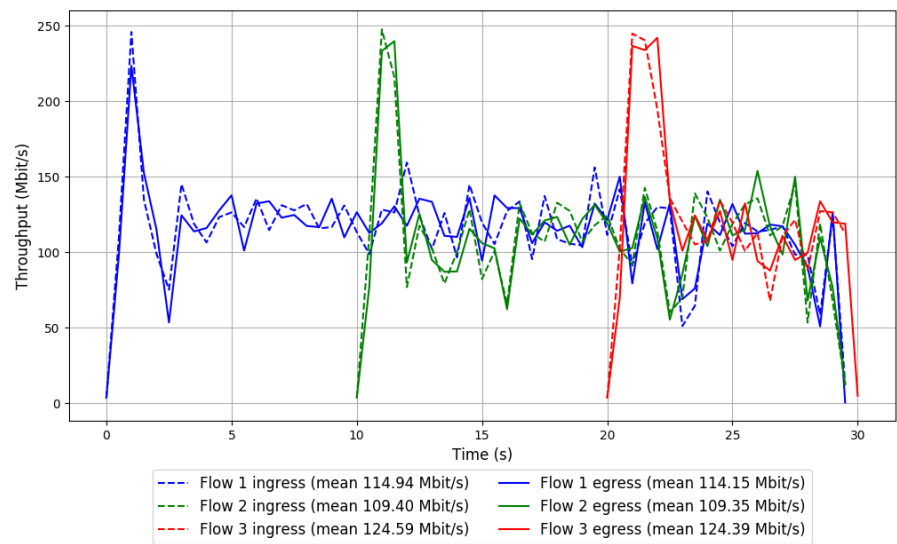
-- Flow 3:

Average throughput: 124.39 Mbit/s

95th percentile per-packet one-way delay: 63.780 ms

Loss rate: 0.16%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-17 02:04:54

End at: 2017-11-17 02:05:24

Below is generated by plot.py at 2017-11-17 05:03:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 212.31 Mbit/s

95th percentile per-packet one-way delay: 63.838 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 104.97 Mbit/s

95th percentile per-packet one-way delay: 63.564 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 105.80 Mbit/s

95th percentile per-packet one-way delay: 64.336 ms

Loss rate: 0.24%

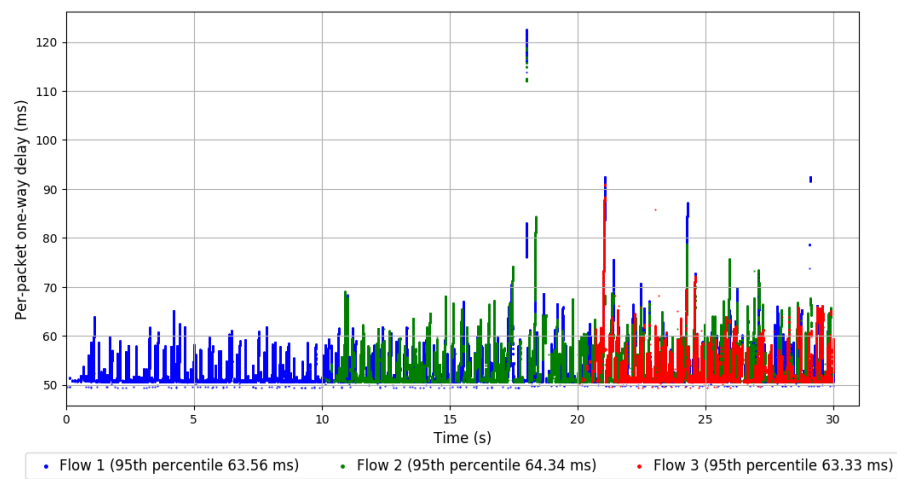
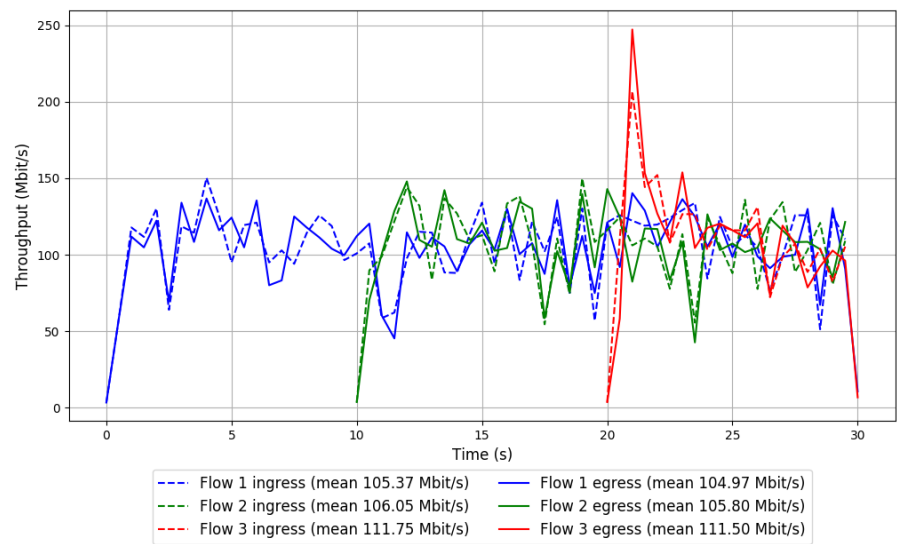
-- Flow 3:

Average throughput: 111.50 Mbit/s

95th percentile per-packet one-way delay: 63.329 ms

Loss rate: 0.17%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-17 02:16:53

End at: 2017-11-17 02:17:23

Below is generated by plot.py at 2017-11-17 05:03:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 225.92 Mbit/s

95th percentile per-packet one-way delay: 65.543 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 115.93 Mbit/s

95th percentile per-packet one-way delay: 63.473 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 106.81 Mbit/s

95th percentile per-packet one-way delay: 64.339 ms

Loss rate: 0.01%

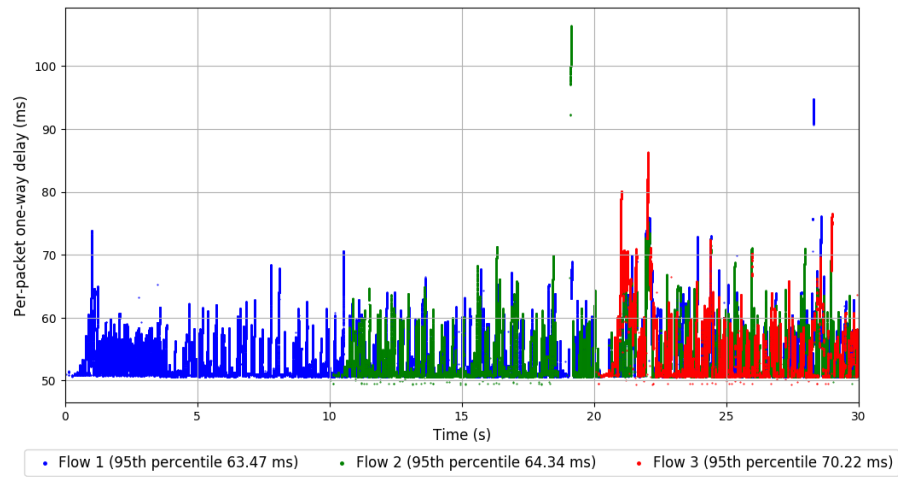
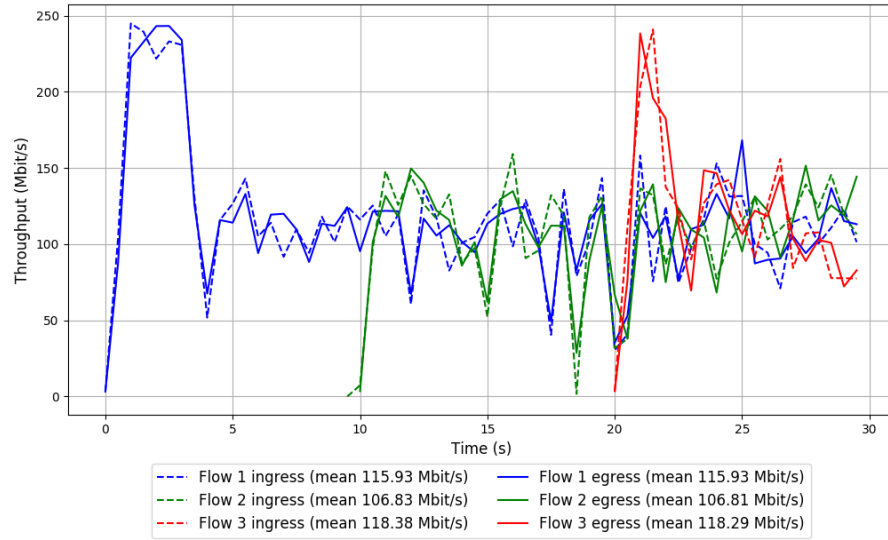
-- Flow 3:

Average throughput: 118.29 Mbit/s

95th percentile per-packet one-way delay: 70.219 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-17 02:29:03

End at: 2017-11-17 02:29:33

Below is generated by plot.py at 2017-11-17 05:04:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 254.06 Mbit/s

95th percentile per-packet one-way delay: 64.764 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 130.14 Mbit/s

95th percentile per-packet one-way delay: 62.353 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 108.79 Mbit/s

95th percentile per-packet one-way delay: 65.450 ms

Loss rate: 0.00%

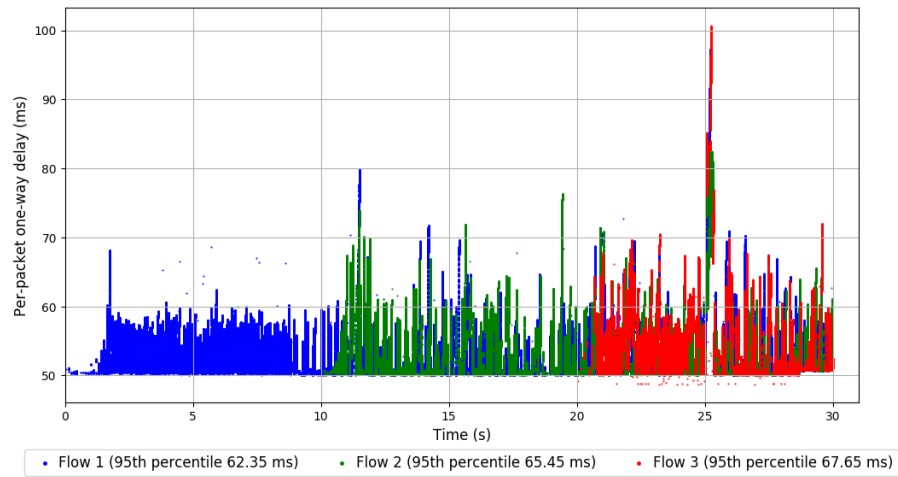
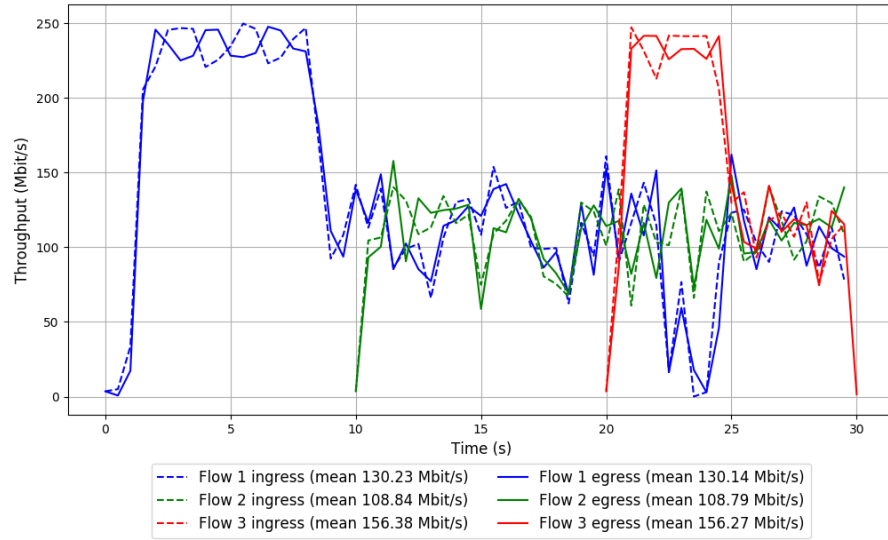
-- Flow 3:

Average throughput: 156.27 Mbit/s

95th percentile per-packet one-way delay: 67.650 ms

Loss rate: 0.05%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-17 02:41:17

End at: 2017-11-17 02:41:47

Below is generated by plot.py at 2017-11-17 05:04:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 233.44 Mbit/s

95th percentile per-packet one-way delay: 64.721 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 109.43 Mbit/s

95th percentile per-packet one-way delay: 62.291 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 108.08 Mbit/s

95th percentile per-packet one-way delay: 65.263 ms

Loss rate: 0.00%

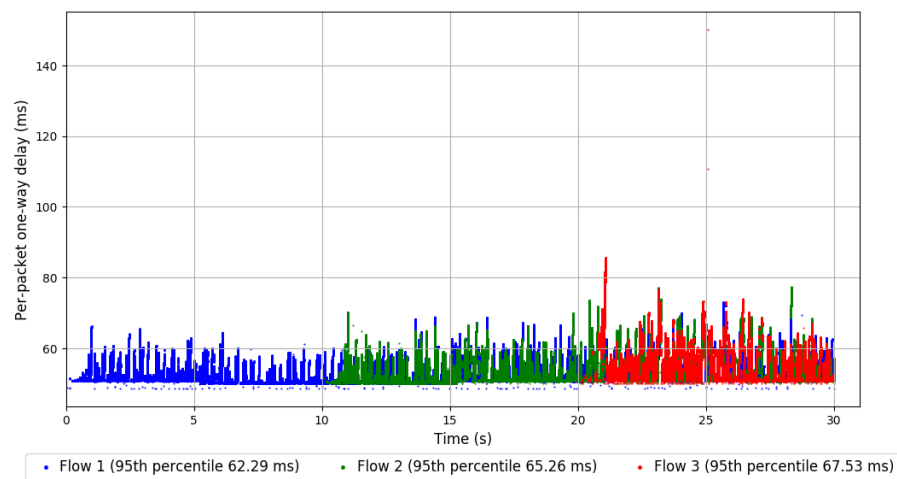
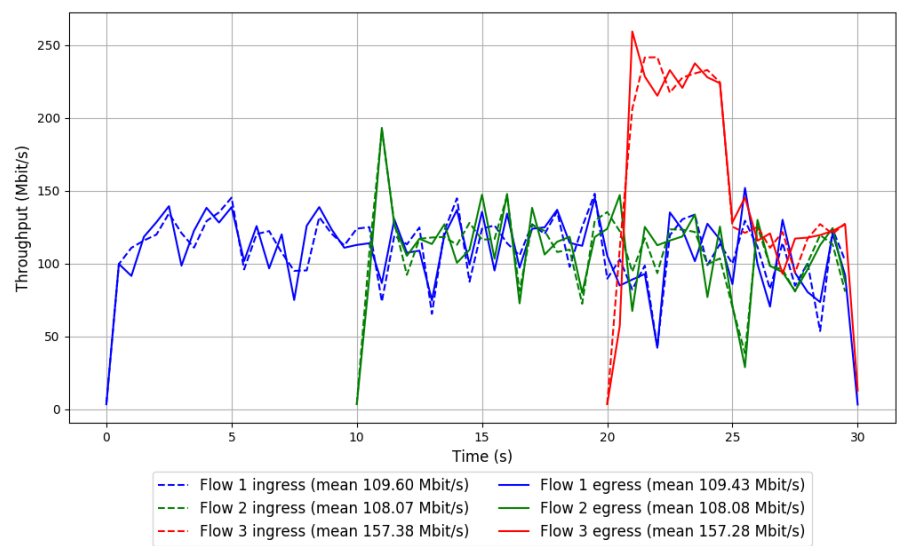
-- Flow 3:

Average throughput: 157.28 Mbit/s

95th percentile per-packet one-way delay: 67.529 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-11-17 02:53:32

End at: 2017-11-17 02:54:02

Below is generated by plot.py at 2017-11-17 05:04:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 258.04 Mbit/s

95th percentile per-packet one-way delay: 63.936 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 129.84 Mbit/s

95th percentile per-packet one-way delay: 62.292 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 119.94 Mbit/s

95th percentile per-packet one-way delay: 65.219 ms

Loss rate: 0.00%

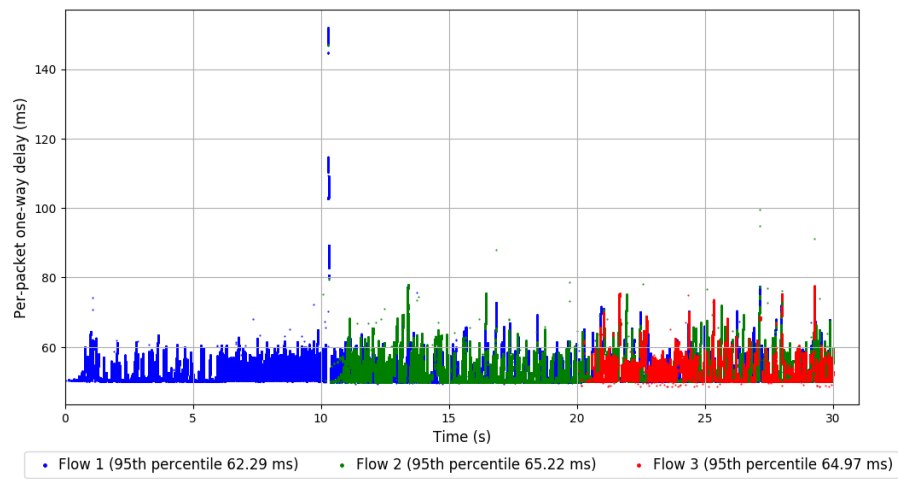
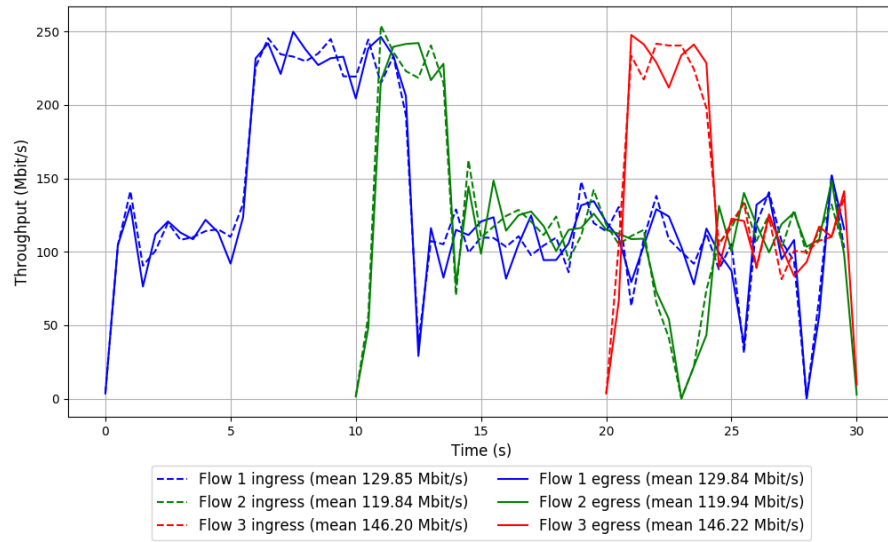
-- Flow 3:

Average throughput: 146.22 Mbit/s

95th percentile per-packet one-way delay: 64.970 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-17 03:05:37

End at: 2017-11-17 03:06:07

Below is generated by plot.py at 2017-11-17 05:04:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 266.37 Mbit/s

95th percentile per-packet one-way delay: 68.372 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 127.70 Mbit/s

95th percentile per-packet one-way delay: 65.960 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 132.42 Mbit/s

95th percentile per-packet one-way delay: 68.149 ms

Loss rate: 0.01%

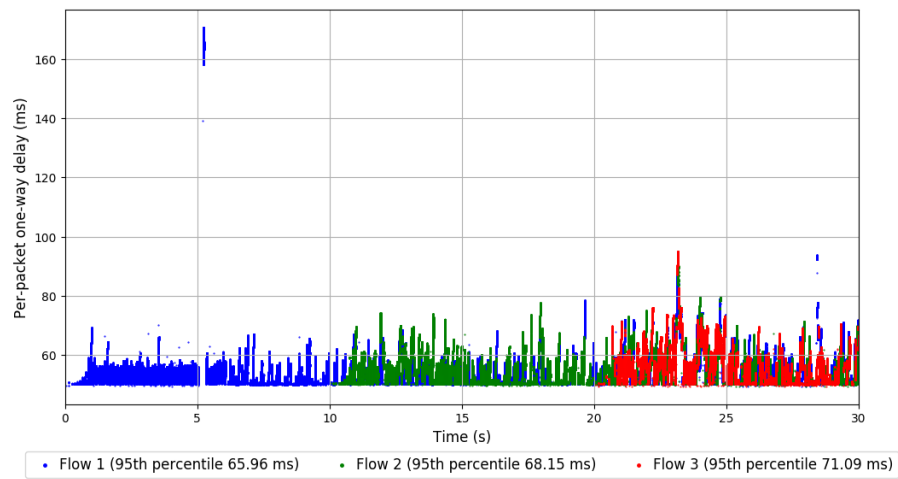
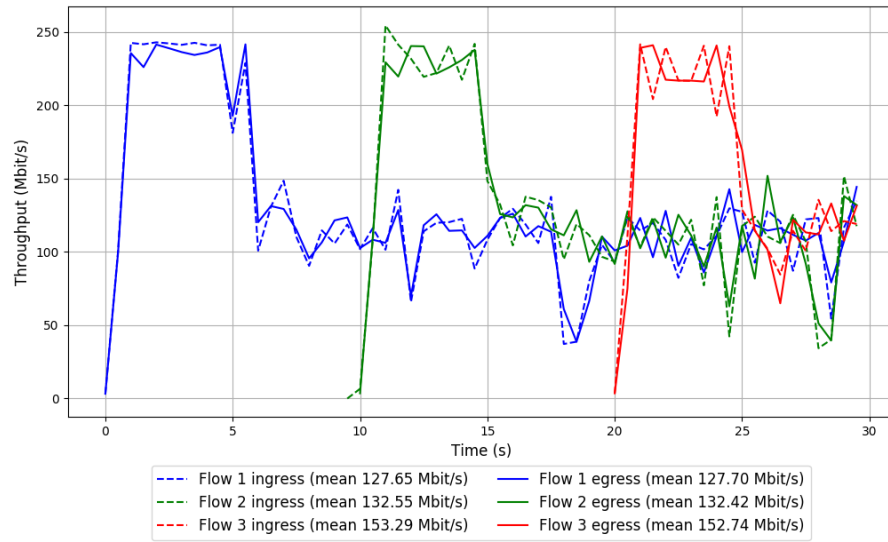
-- Flow 3:

Average throughput: 152.74 Mbit/s

95th percentile per-packet one-way delay: 71.095 ms

Loss rate: 0.22%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-17 03:17:42

End at: 2017-11-17 03:18:12

Below is generated by plot.py at 2017-11-17 05:07:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 254.65 Mbit/s

95th percentile per-packet one-way delay: 64.409 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 123.58 Mbit/s

95th percentile per-packet one-way delay: 63.953 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 125.34 Mbit/s

95th percentile per-packet one-way delay: 63.750 ms

Loss rate: 0.11%

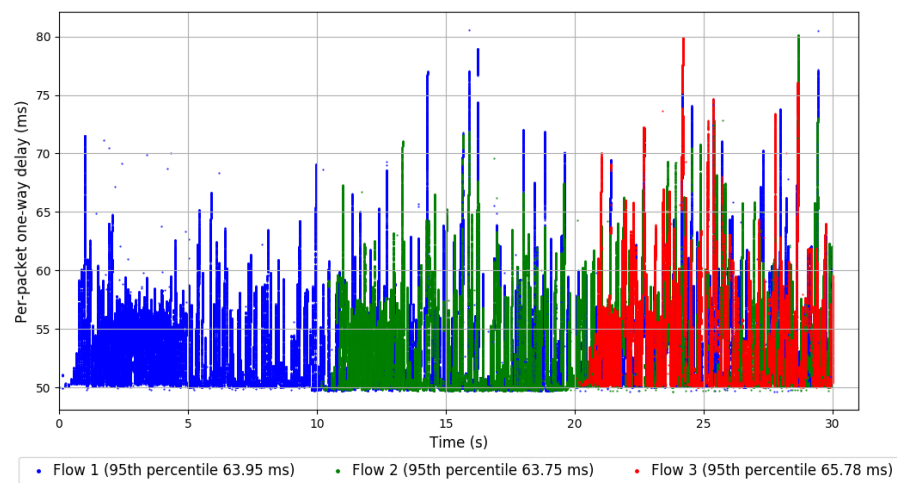
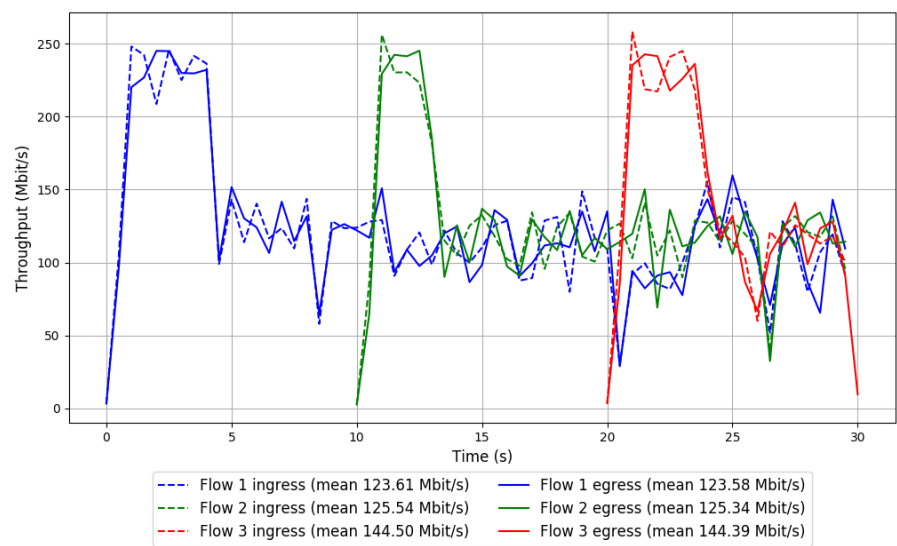
-- Flow 3:

Average throughput: 144.39 Mbit/s

95th percentile per-packet one-way delay: 65.785 ms

Loss rate: 0.01%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-17 03:29:59

End at: 2017-11-17 03:30:29

Below is generated by plot.py at 2017-11-17 05:07:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 217.08 Mbit/s

95th percentile per-packet one-way delay: 65.490 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 106.32 Mbit/s

95th percentile per-packet one-way delay: 64.997 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 109.90 Mbit/s

95th percentile per-packet one-way delay: 65.275 ms

Loss rate: 0.00%

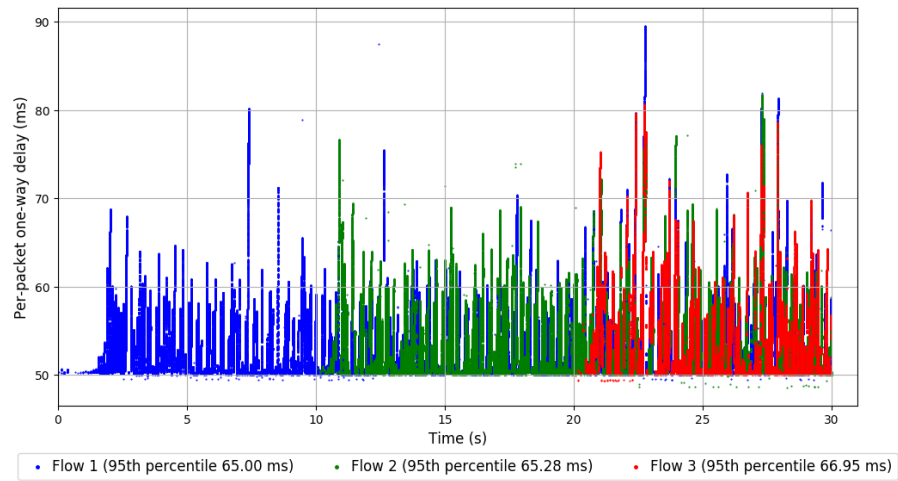
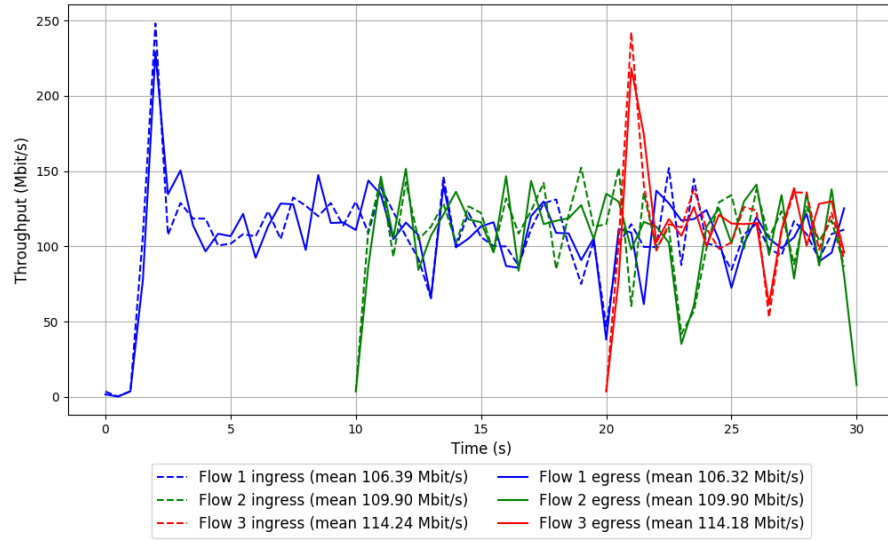
-- Flow 3:

Average throughput: 114.18 Mbit/s

95th percentile per-packet one-way delay: 66.947 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-11-17 01:42:18

End at: 2017-11-17 01:42:48

Below is generated by plot.py at 2017-11-17 05:07:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 178.23 Mbit/s

95th percentile per-packet one-way delay: 55.667 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 127.33 Mbit/s

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

Loss rate: 0.07%

-- Flow 2:

Average throughput: 17.62 Mbit/s

95th percentile per-packet one-way delay: 52.349 ms

Loss rate: 0.04%

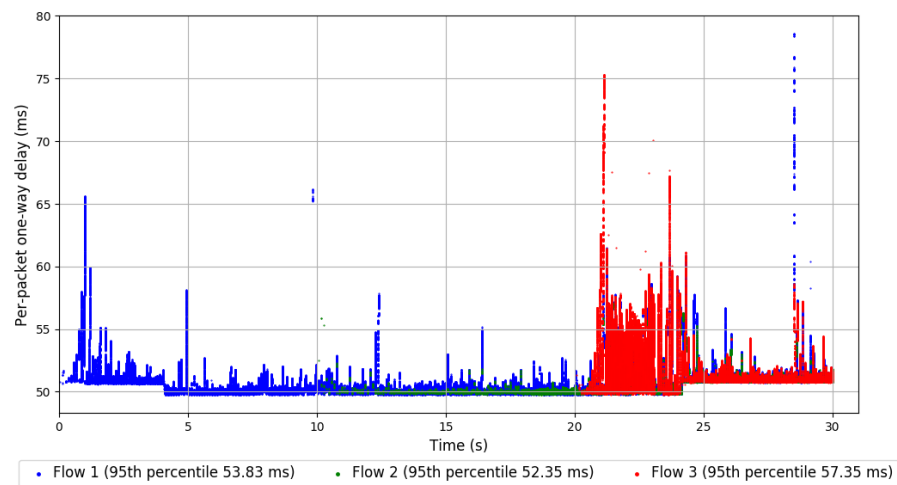
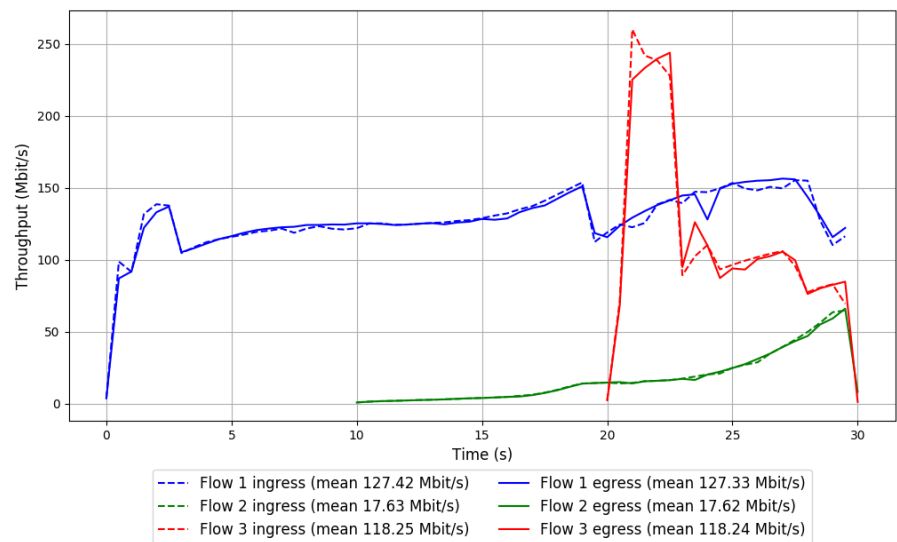
-- Flow 3:

Average throughput: 118.24 Mbit/s

95th percentile per-packet one-way delay: 57.349 ms

Loss rate: 0.01%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-17 01:54:23

End at: 2017-11-17 01:54:53

Below is generated by plot.py at 2017-11-17 05:07:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 204.87 Mbit/s

95th percentile per-packet one-way delay: 57.942 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 113.47 Mbit/s

95th percentile per-packet one-way delay: 54.439 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 52.71 Mbit/s

95th percentile per-packet one-way delay: 58.715 ms

Loss rate: 0.19%

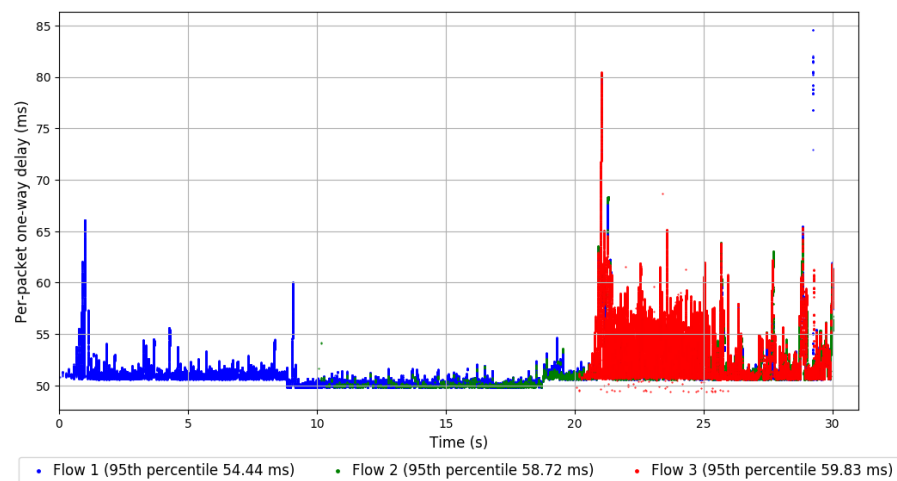
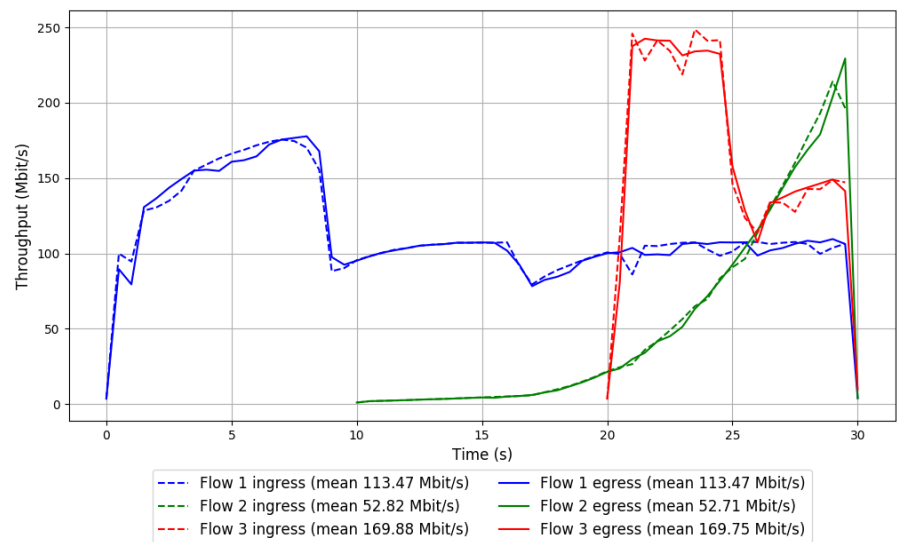
-- Flow 3:

Average throughput: 169.75 Mbit/s

95th percentile per-packet one-way delay: 59.827 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-17 02:06:27

End at: 2017-11-17 02:06:57

Below is generated by plot.py at 2017-11-17 05:07:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 229.56 Mbit/s

95th percentile per-packet one-way delay: 57.586 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 117.43 Mbit/s

95th percentile per-packet one-way delay: 55.807 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 103.69 Mbit/s

95th percentile per-packet one-way delay: 58.012 ms

Loss rate: 0.10%

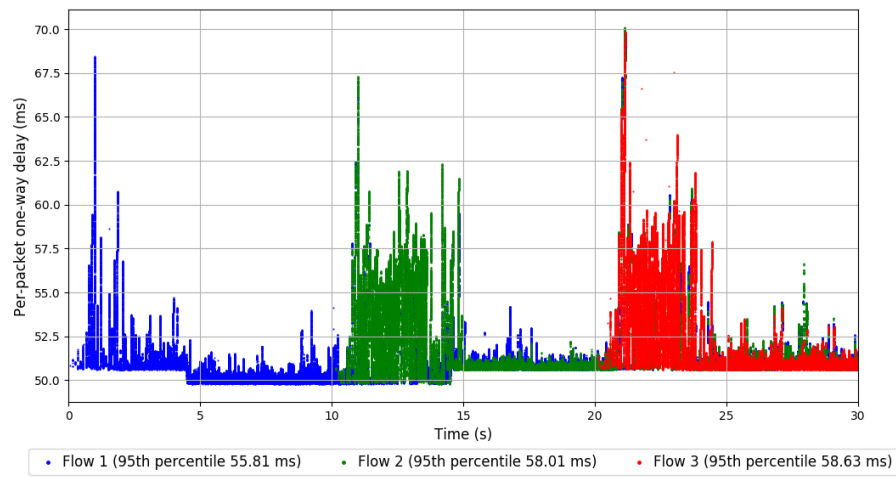
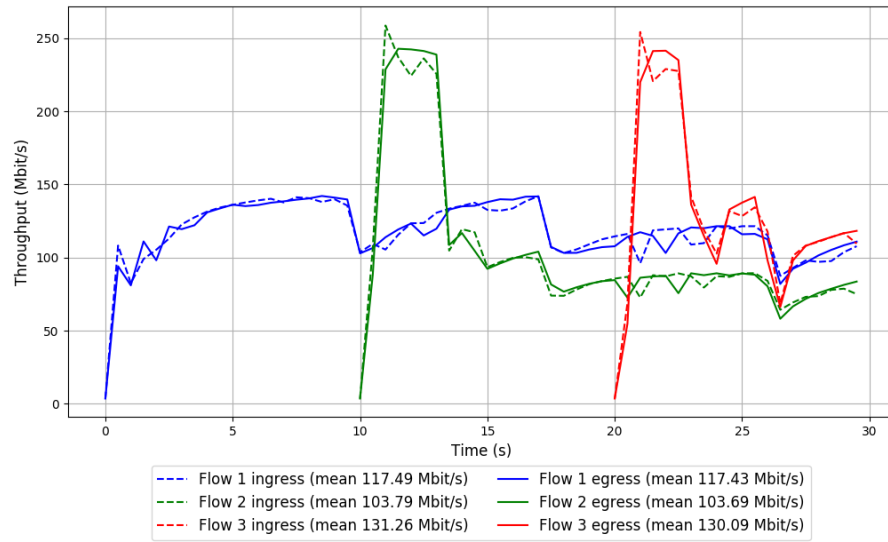
-- Flow 3:

Average throughput: 130.09 Mbit/s

95th percentile per-packet one-way delay: 58.632 ms

Loss rate: 0.89%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-17 02:18:27

End at: 2017-11-17 02:18:57

Below is generated by plot.py at 2017-11-17 05:07:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 215.42 Mbit/s

95th percentile per-packet one-way delay: 53.564 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 69.10 Mbit/s

95th percentile per-packet one-way delay: 53.550 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 129.68 Mbit/s

95th percentile per-packet one-way delay: 53.427 ms

Loss rate: 0.00%

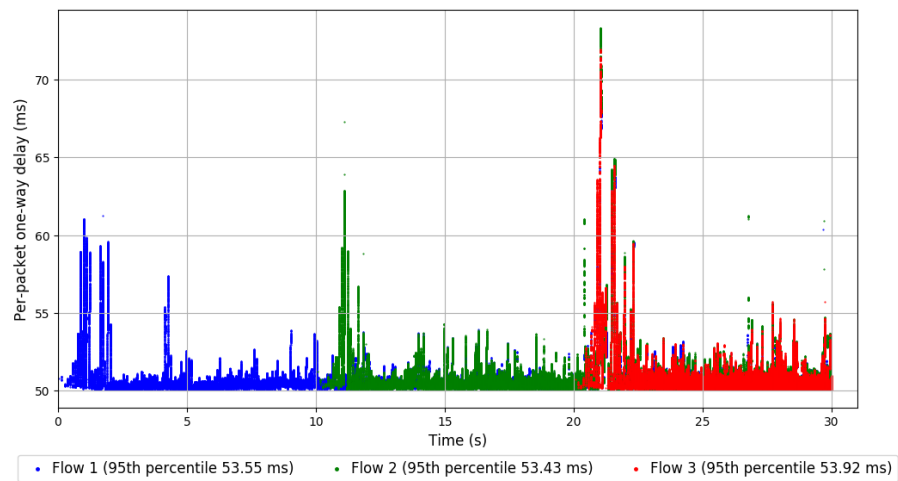
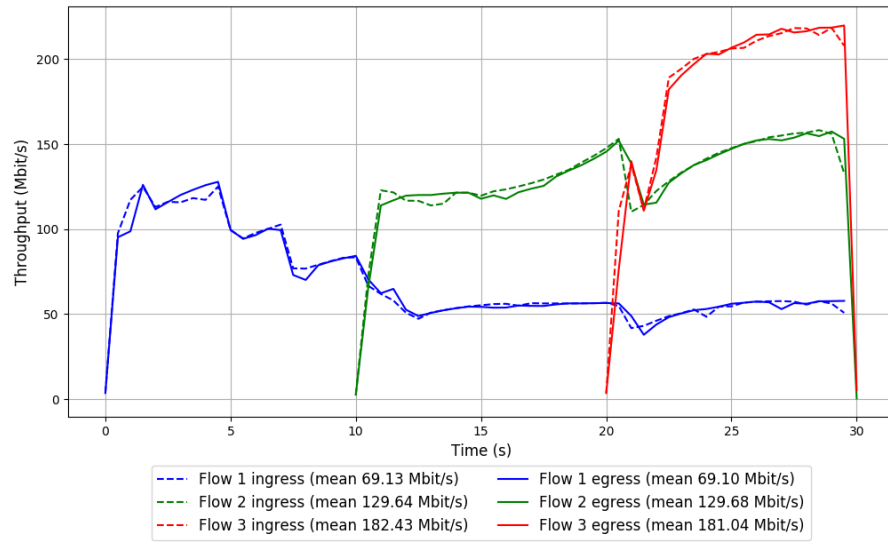
-- Flow 3:

Average throughput: 181.04 Mbit/s

95th percentile per-packet one-way delay: 53.920 ms

Loss rate: 0.76%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-17 02:30:38

End at: 2017-11-17 02:31:08

Below is generated by plot.py at 2017-11-17 05:07:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 226.27 Mbit/s

95th percentile per-packet one-way delay: 54.134 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 104.79 Mbit/s

95th percentile per-packet one-way delay: 53.797 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 126.14 Mbit/s

95th percentile per-packet one-way delay: 54.048 ms

Loss rate: 0.00%

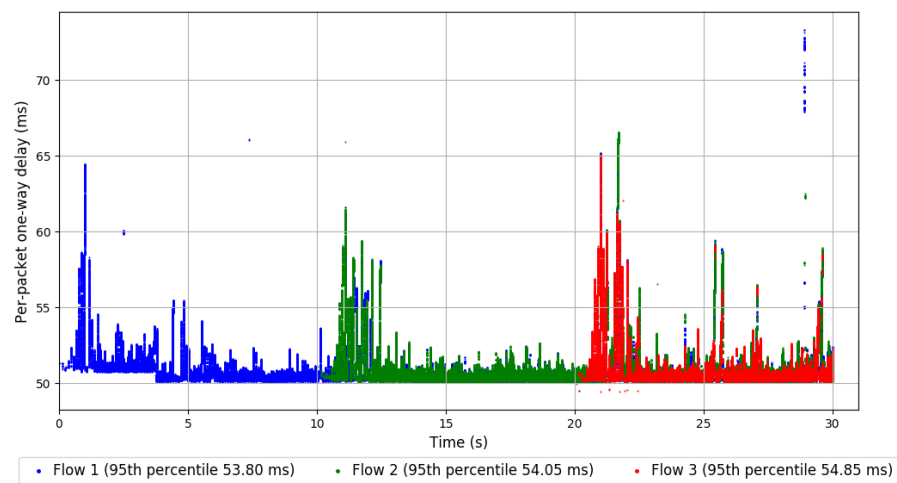
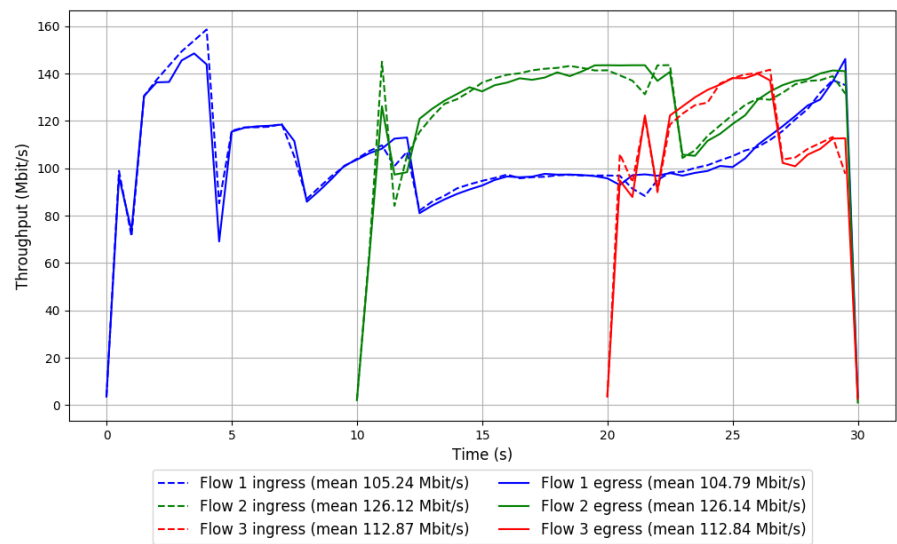
-- Flow 3:

Average throughput: 112.84 Mbit/s

95th percentile per-packet one-way delay: 54.854 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-17 02:42:51

End at: 2017-11-17 02:43:21

Below is generated by plot.py at 2017-11-17 05:10:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 315.33 Mbit/s

95th percentile per-packet one-way delay: 69.588 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 139.92 Mbit/s

95th percentile per-packet one-way delay: 69.718 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 182.72 Mbit/s

95th percentile per-packet one-way delay: 67.895 ms

Loss rate: 0.00%

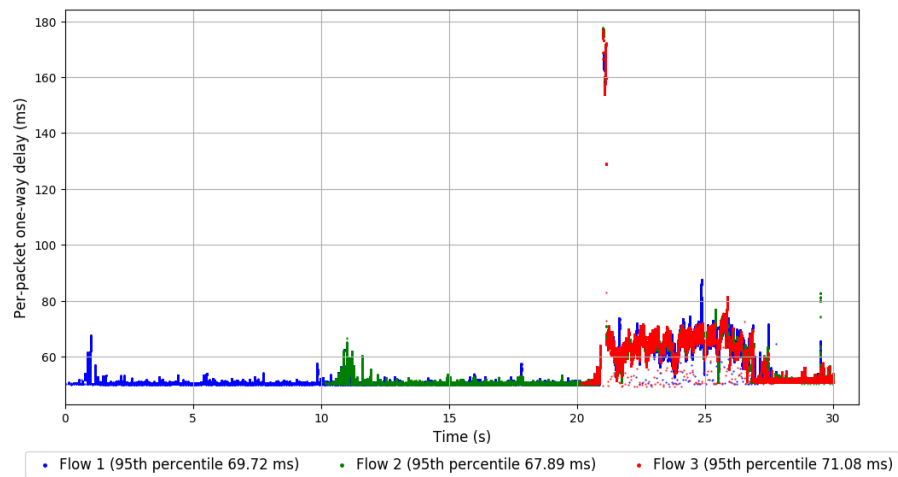
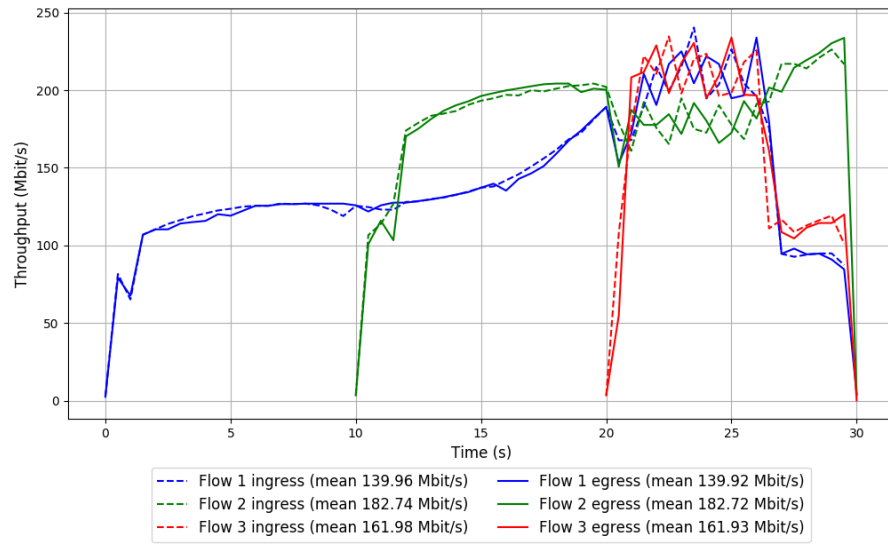
-- Flow 3:

Average throughput: 161.93 Mbit/s

95th percentile per-packet one-way delay: 71.080 ms

Loss rate: 0.03%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-17 02:55:07

End at: 2017-11-17 02:55:37

Below is generated by plot.py at 2017-11-17 05:10:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 193.78 Mbit/s

95th percentile per-packet one-way delay: 56.191 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 91.50 Mbit/s

95th percentile per-packet one-way delay: 54.926 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 82.51 Mbit/s

95th percentile per-packet one-way delay: 53.341 ms

Loss rate: 0.01%

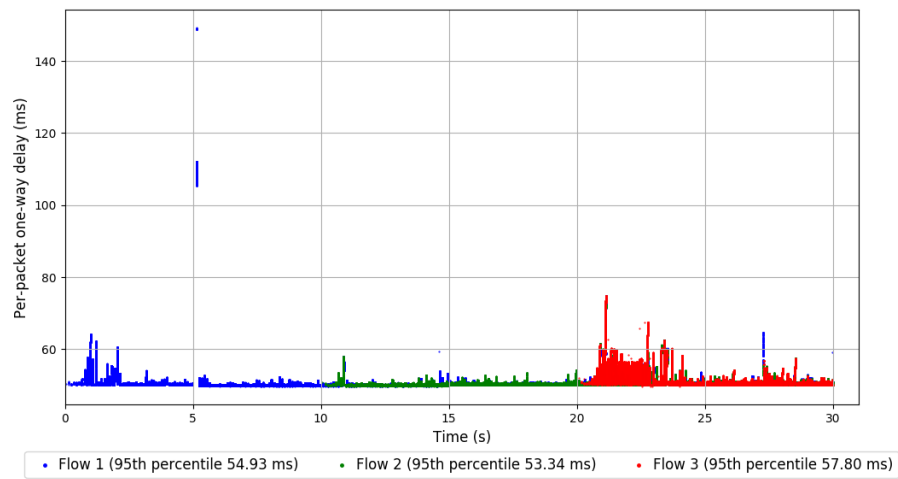
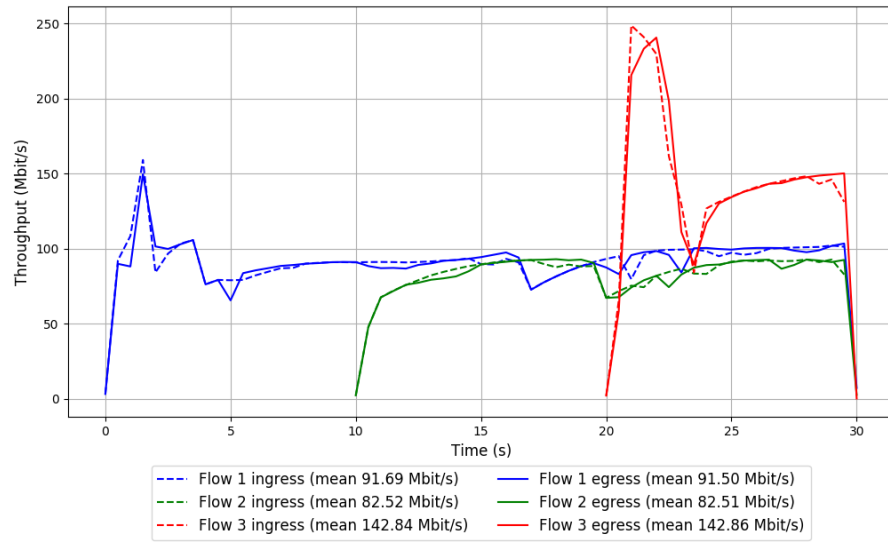
-- Flow 3:

Average throughput: 142.86 Mbit/s

95th percentile per-packet one-way delay: 57.798 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-17 03:07:12

End at: 2017-11-17 03:07:42

Below is generated by plot.py at 2017-11-17 05:10:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 202.64 Mbit/s

95th percentile per-packet one-way delay: 55.726 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 76.78 Mbit/s

95th percentile per-packet one-way delay: 53.271 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 134.94 Mbit/s

95th percentile per-packet one-way delay: 55.750 ms

Loss rate: 0.06%

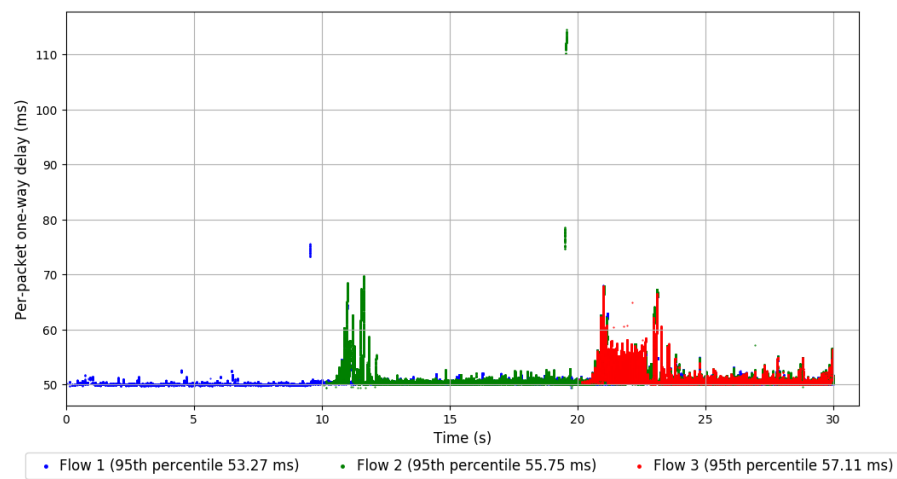
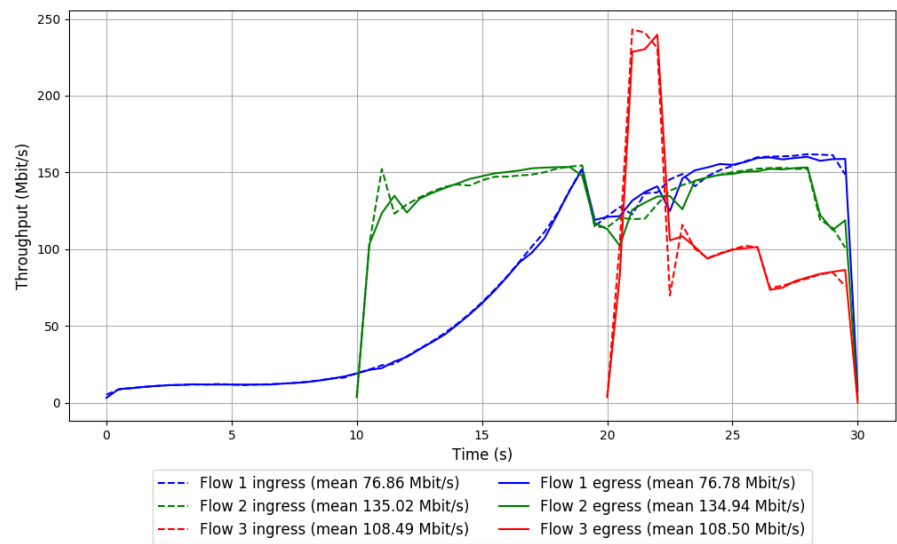
-- Flow 3:

Average throughput: 108.50 Mbit/s

95th percentile per-packet one-way delay: 57.110 ms

Loss rate: 0.01%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-17 03:19:17

End at: 2017-11-17 03:19:47

Below is generated by plot.py at 2017-11-17 05:10:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 212.66 Mbit/s

95th percentile per-packet one-way delay: 57.647 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 130.70 Mbit/s

95th percentile per-packet one-way delay: 57.971 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 120.76 Mbit/s

95th percentile per-packet one-way delay: 56.767 ms

Loss rate: 0.01%

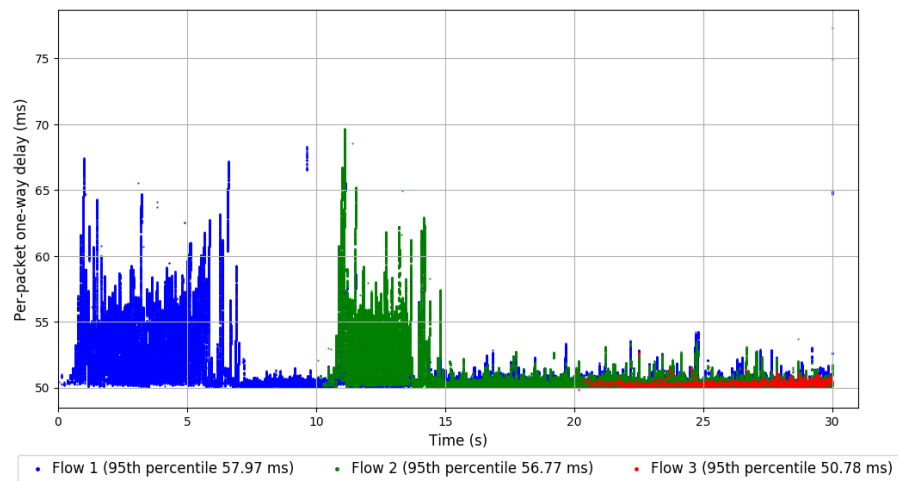
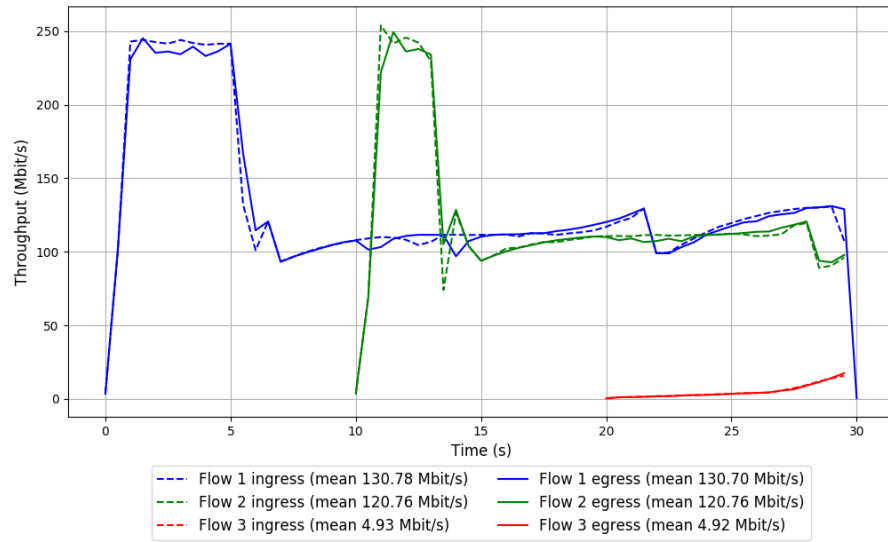
-- Flow 3:

Average throughput: 4.92 Mbit/s

95th percentile per-packet one-way delay: 50.781 ms

Loss rate: 0.22%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-17 03:31:33

End at: 2017-11-17 03:32:03

Below is generated by plot.py at 2017-11-17 05:11:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 229.92 Mbit/s

95th percentile per-packet one-way delay: 58.416 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 85.78 Mbit/s

95th percentile per-packet one-way delay: 57.461 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 143.87 Mbit/s

95th percentile per-packet one-way delay: 58.635 ms

Loss rate: 0.00%

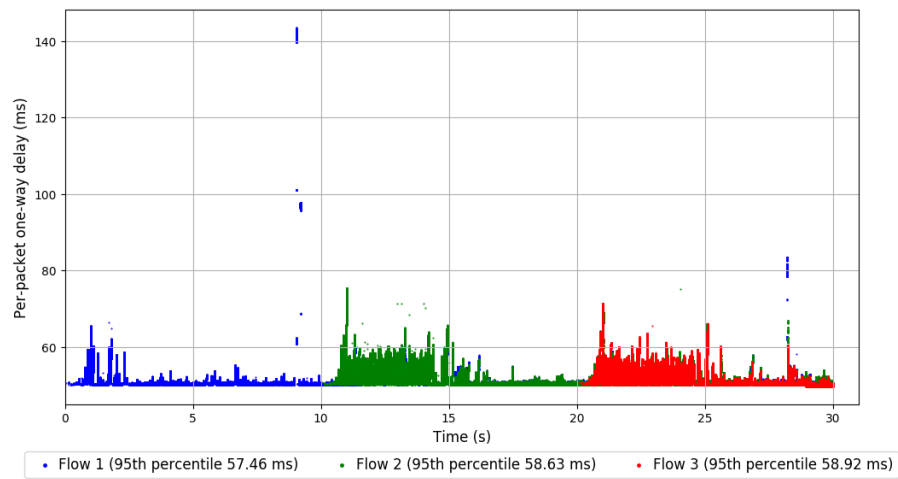
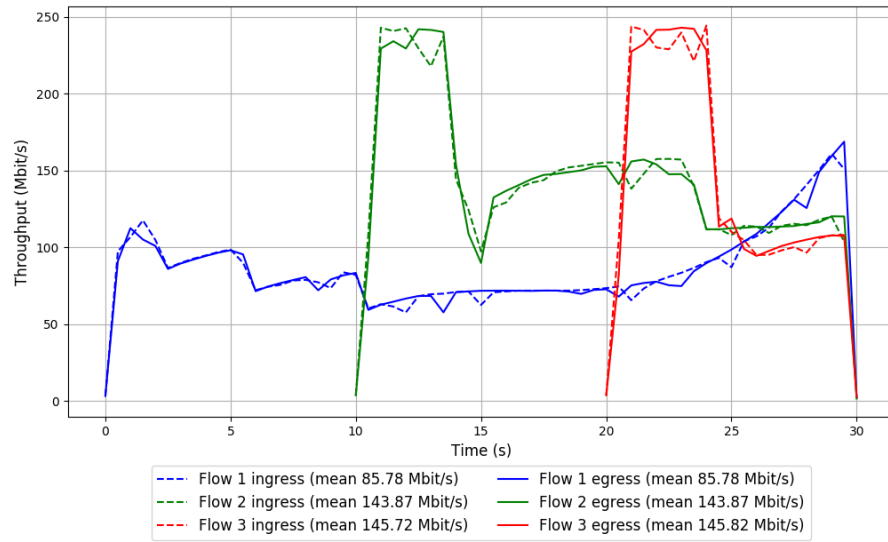
-- Flow 3:

Average throughput: 145.82 Mbit/s

95th percentile per-packet one-way delay: 58.918 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

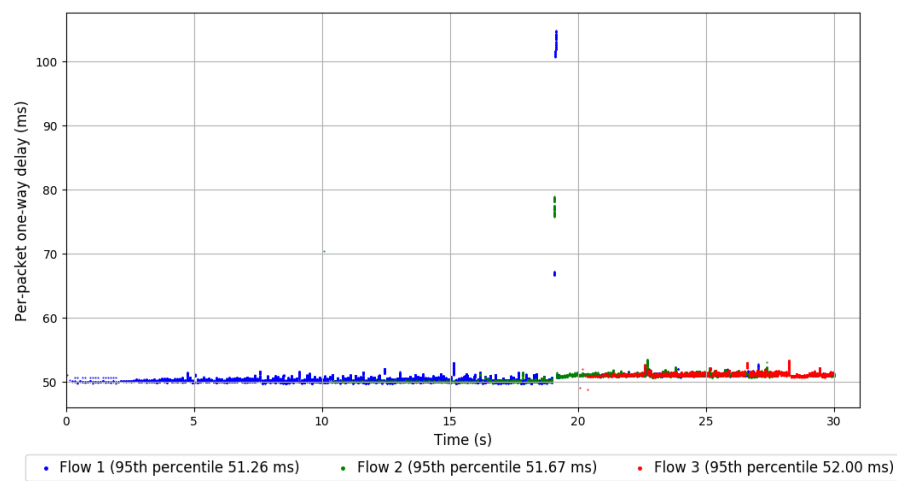
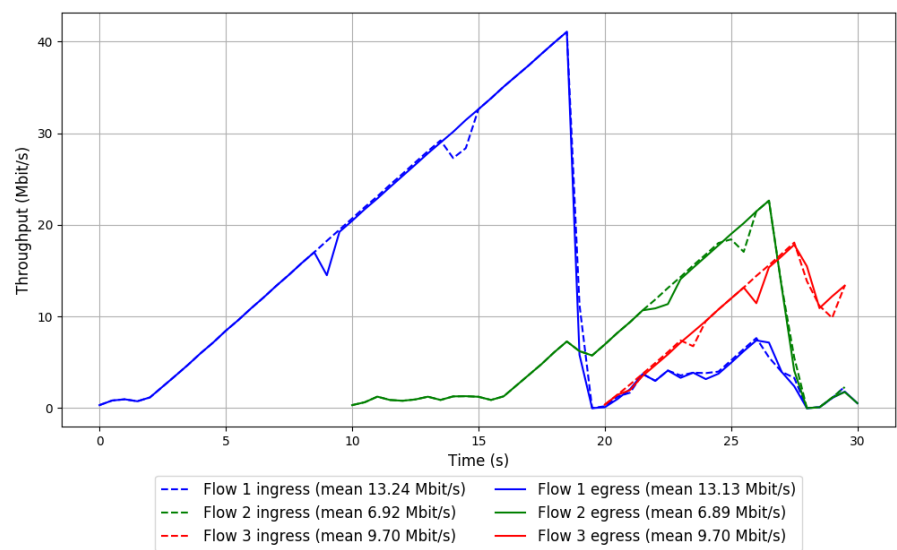


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-17 01:40:03
End at: 2017-11-17 01:40:33

# Below is generated by plot.py at 2017-11-17 05:11:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.92 Mbit/s
95th percentile per-packet one-way delay: 51.565 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 13.13 Mbit/s
95th percentile per-packet one-way delay: 51.259 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 6.89 Mbit/s
95th percentile per-packet one-way delay: 51.675 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 9.70 Mbit/s
95th percentile per-packet one-way delay: 52.000 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

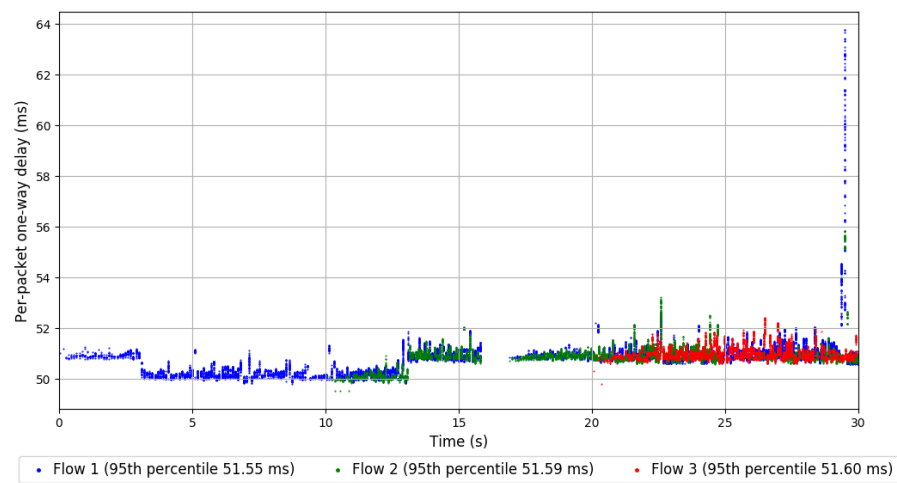
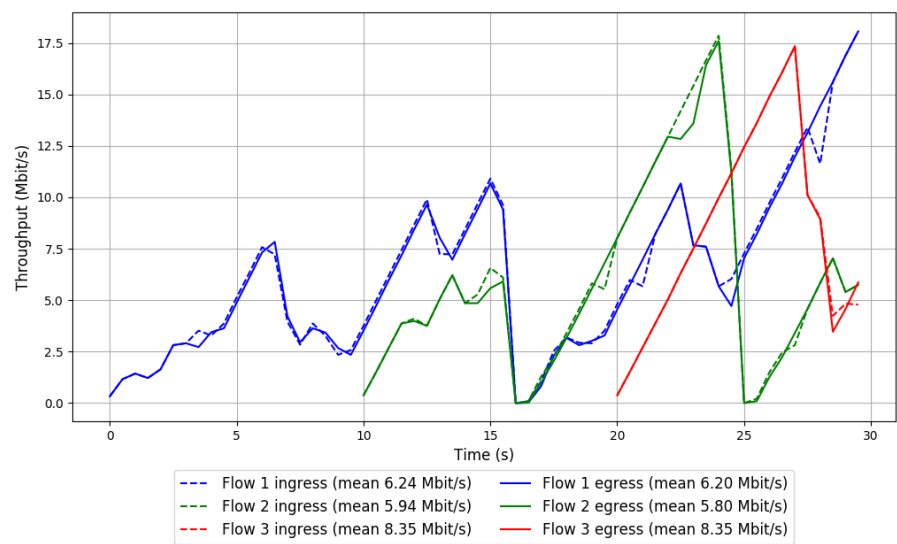


```
Run 2: Statistics of LEDBAT

Start at: 2017-11-17 01:52:09
End at: 2017-11-17 01:52:39

# Below is generated by plot.py at 2017-11-17 05:11:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.80 Mbit/s
95th percentile per-packet one-way delay: 51.584 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 6.20 Mbit/s
95th percentile per-packet one-way delay: 51.547 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 5.80 Mbit/s
95th percentile per-packet one-way delay: 51.589 ms
Loss rate: 2.34%
-- Flow 3:
Average throughput: 8.35 Mbit/s
95th percentile per-packet one-way delay: 51.601 ms
Loss rate: 0.03%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-11-17 02:04:13

End at: 2017-11-17 02:04:43

Below is generated by plot.py at 2017-11-17 05:11:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.31 Mbit/s

95th percentile per-packet one-way delay: 51.436 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 8.18 Mbit/s

95th percentile per-packet one-way delay: 51.635 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 11.52 Mbit/s

95th percentile per-packet one-way delay: 51.324 ms

Loss rate: 0.04%

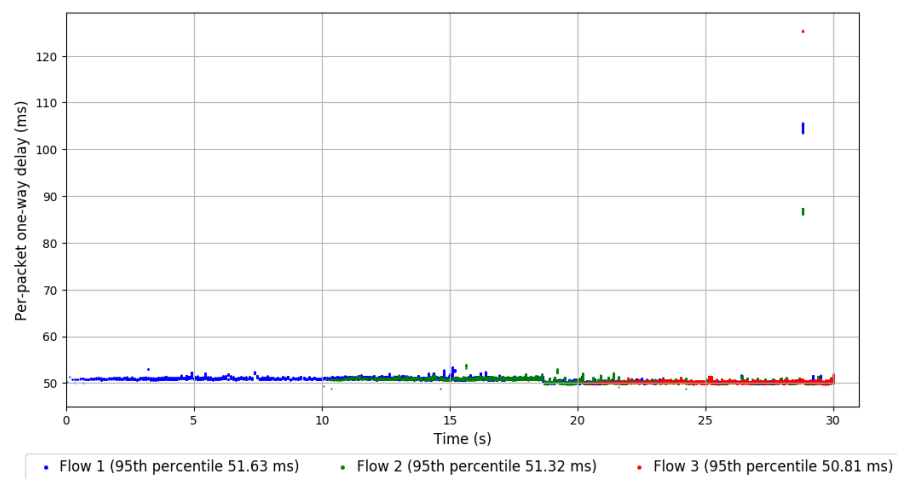
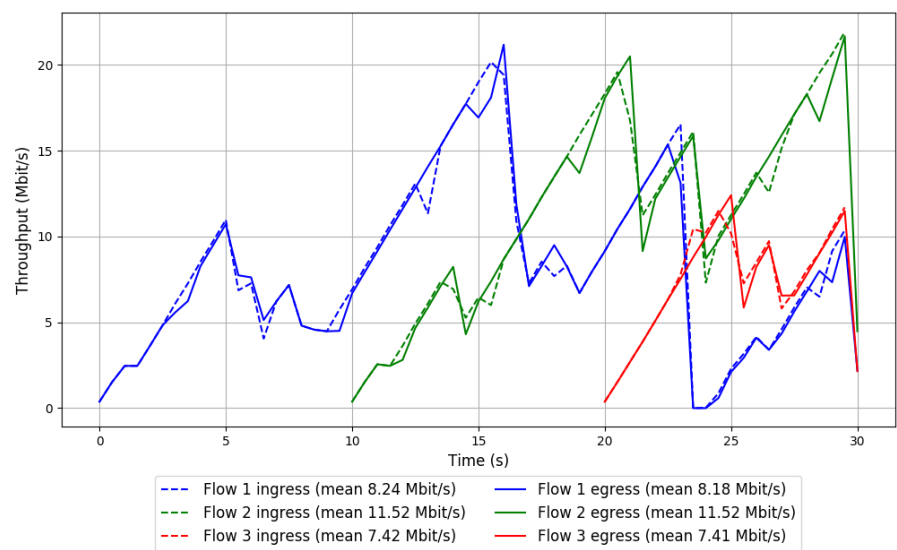
-- Flow 3:

Average throughput: 7.41 Mbit/s

95th percentile per-packet one-way delay: 50.815 ms

Loss rate: 0.06%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-17 02:16:12

End at: 2017-11-17 02:16:42

Below is generated by plot.py at 2017-11-17 05:11:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.49 Mbit/s

95th percentile per-packet one-way delay: 51.500 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 4.37 Mbit/s

95th percentile per-packet one-way delay: 51.428 ms

Loss rate: 1.78%

-- Flow 2:

Average throughput: 9.75 Mbit/s

95th percentile per-packet one-way delay: 51.503 ms

Loss rate: 1.19%

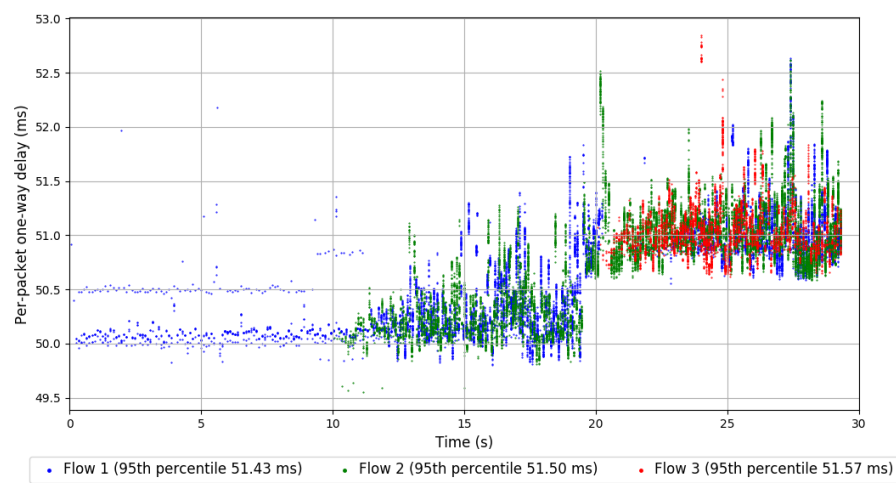
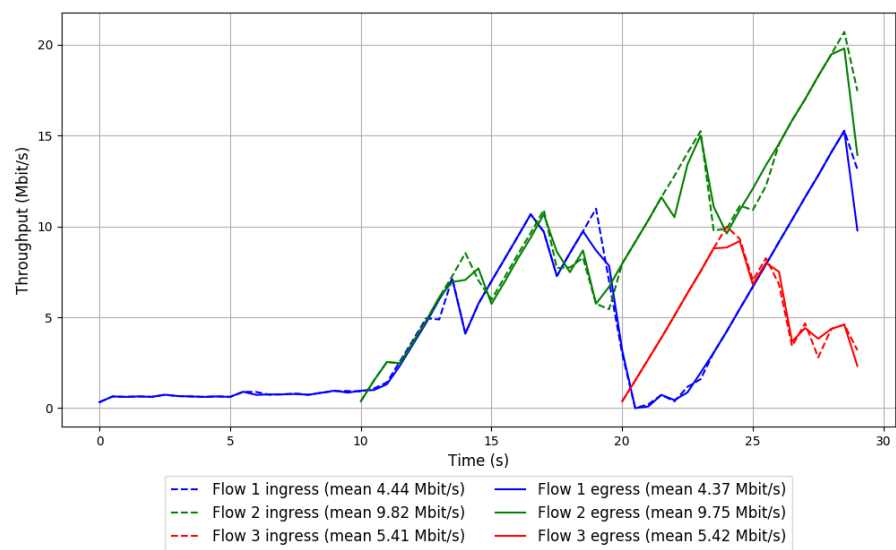
-- Flow 3:

Average throughput: 5.42 Mbit/s

95th percentile per-packet one-way delay: 51.570 ms

Loss rate: 0.91%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-11-17 02:28:21

End at: 2017-11-17 02:28:51

Below is generated by plot.py at 2017-11-17 05:11:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 35.69 Mbit/s

95th percentile per-packet one-way delay: 51.694 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 16.52 Mbit/s

95th percentile per-packet one-way delay: 51.831 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 23.30 Mbit/s

95th percentile per-packet one-way delay: 51.662 ms

Loss rate: 0.00%

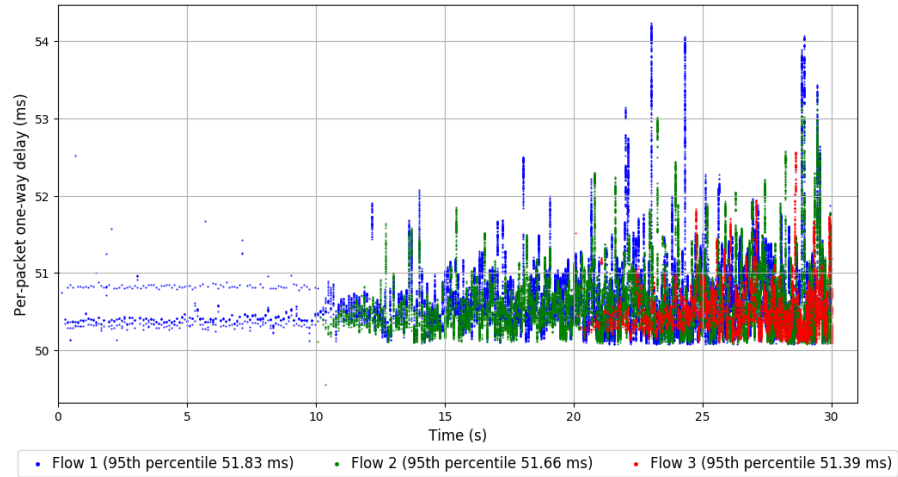
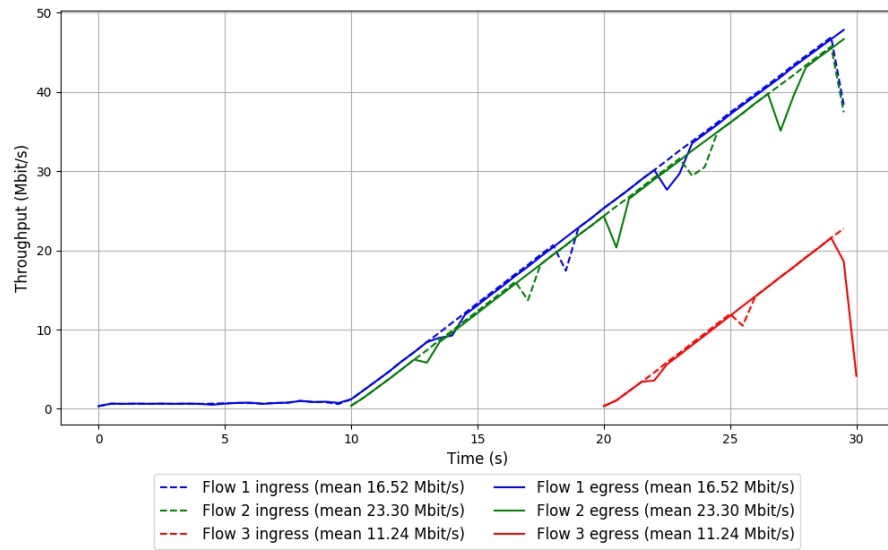
-- Flow 3:

Average throughput: 11.24 Mbit/s

95th percentile per-packet one-way delay: 51.386 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-17 02:40:36

End at: 2017-11-17 02:41:06

Below is generated by plot.py at 2017-11-17 05:11:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.85 Mbit/s

95th percentile per-packet one-way delay: 51.277 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 8.43 Mbit/s

95th percentile per-packet one-way delay: 51.162 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 7.26 Mbit/s

95th percentile per-packet one-way delay: 51.578 ms

Loss rate: 0.40%

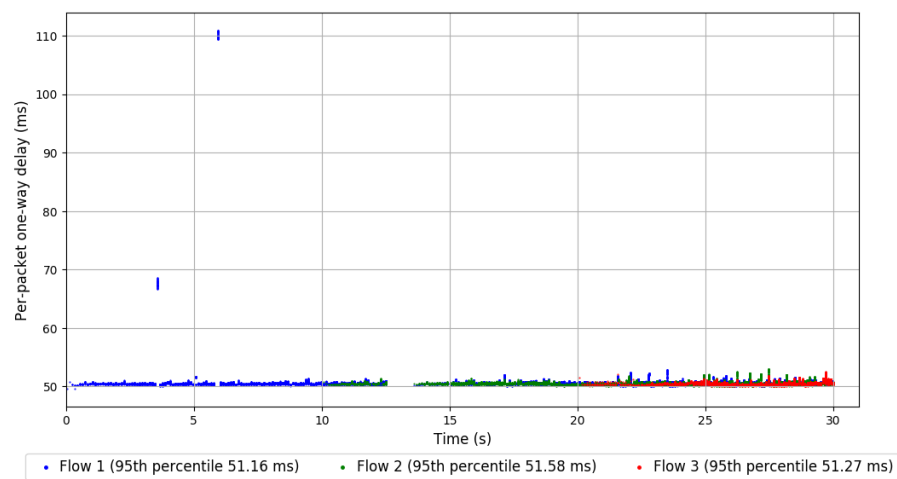
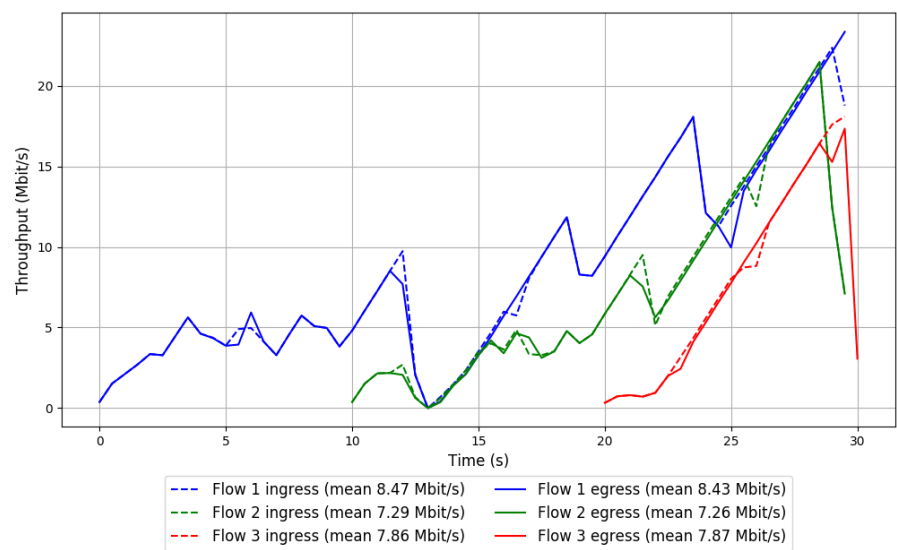
-- Flow 3:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 51.271 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-11-17 02:52:51

End at: 2017-11-17 02:53:21

Below is generated by plot.py at 2017-11-17 05:11:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.98 Mbit/s

95th percentile per-packet one-way delay: 51.232 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 50.840 ms

Loss rate: 1.64%

-- Flow 2:

Average throughput: 13.92 Mbit/s

95th percentile per-packet one-way delay: 51.238 ms

Loss rate: 0.03%

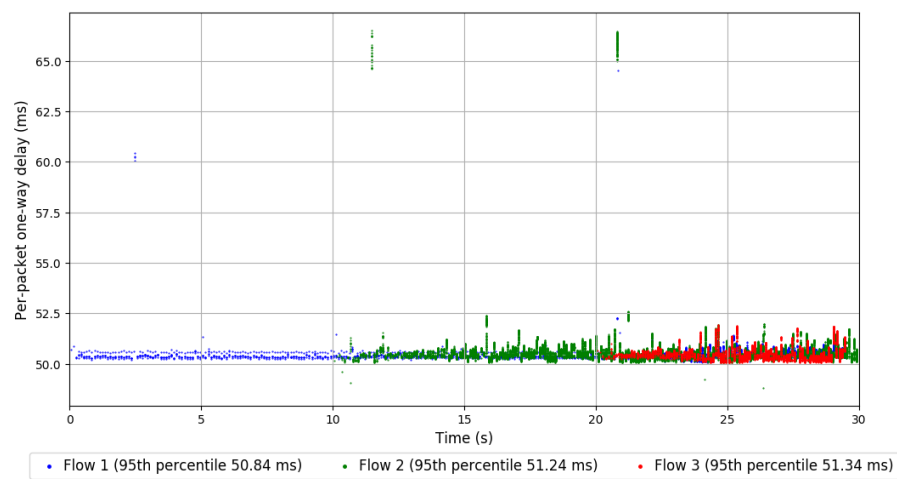
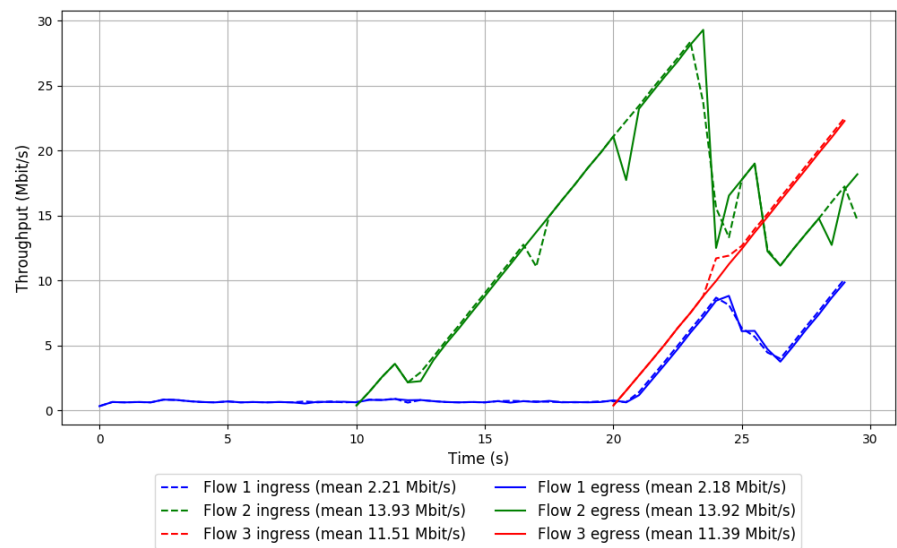
-- Flow 3:

Average throughput: 11.39 Mbit/s

95th percentile per-packet one-way delay: 51.342 ms

Loss rate: 2.11%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-17 03:04:56

End at: 2017-11-17 03:05:26

Below is generated by plot.py at 2017-11-17 05:11:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.51 Mbit/s

95th percentile per-packet one-way delay: 51.135 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 13.95 Mbit/s

95th percentile per-packet one-way delay: 51.326 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 8.43 Mbit/s

95th percentile per-packet one-way delay: 50.934 ms

Loss rate: 0.04%

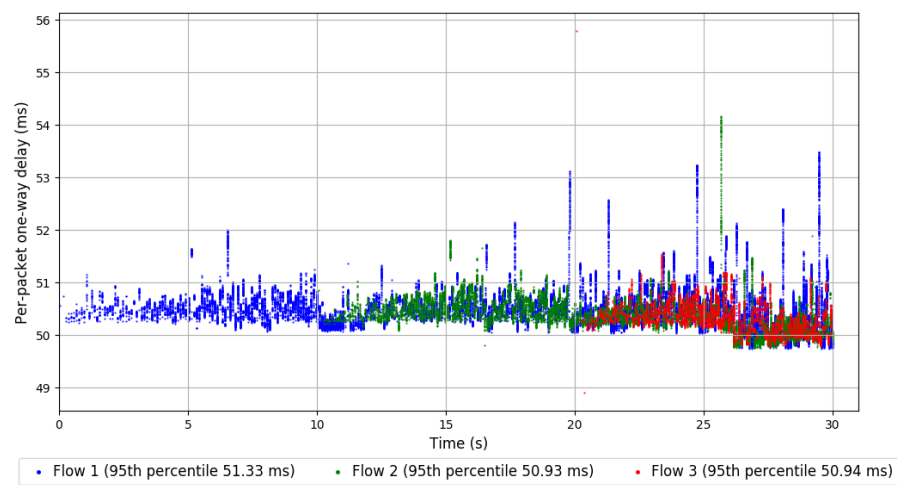
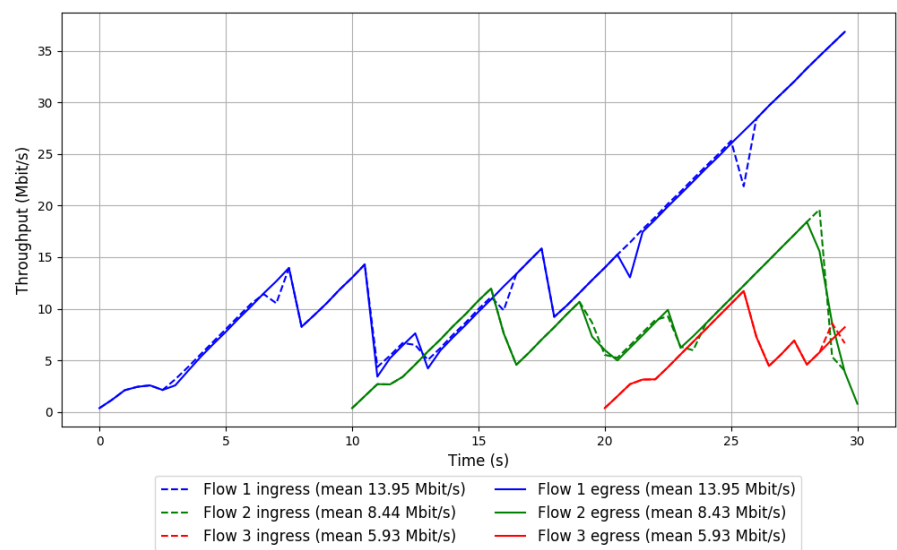
-- Flow 3:

Average throughput: 5.93 Mbit/s

95th percentile per-packet one-way delay: 50.936 ms

Loss rate: 0.04%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-17 03:17:01

End at: 2017-11-17 03:17:31

Below is generated by plot.py at 2017-11-17 05:11:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.32 Mbit/s

95th percentile per-packet one-way delay: 51.289 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 9.22 Mbit/s

95th percentile per-packet one-way delay: 51.270 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 12.36 Mbit/s

95th percentile per-packet one-way delay: 51.393 ms

Loss rate: 0.14%

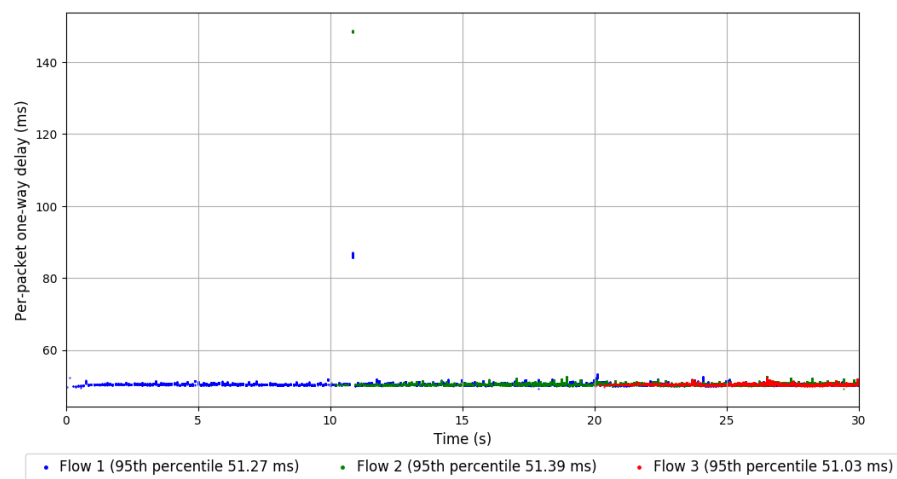
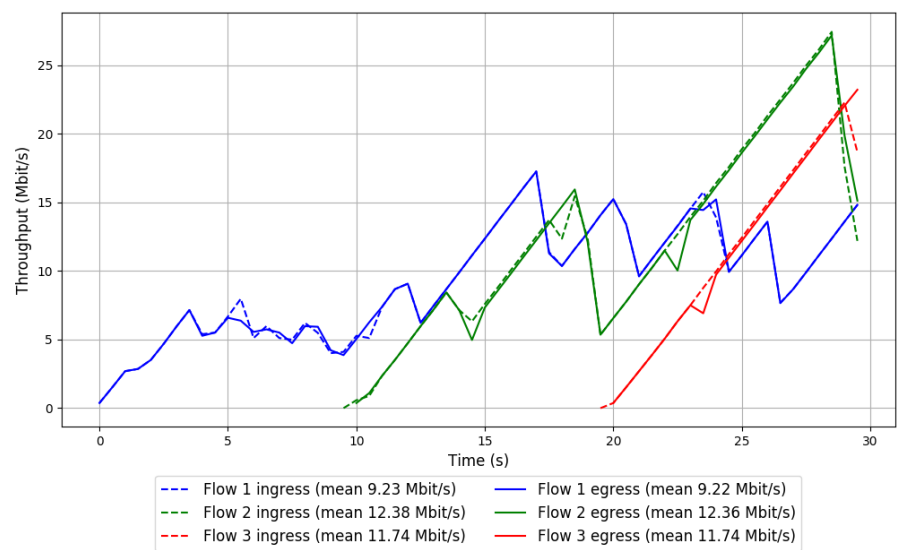
-- Flow 3:

Average throughput: 11.74 Mbit/s

95th percentile per-packet one-way delay: 51.031 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-11-17 03:29:18

End at: 2017-11-17 03:29:48

Below is generated by plot.py at 2017-11-17 05:11:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.79 Mbit/s

95th percentile per-packet one-way delay: 51.270 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 10.03 Mbit/s

95th percentile per-packet one-way delay: 51.320 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 15.32 Mbit/s

95th percentile per-packet one-way delay: 51.172 ms

Loss rate: 0.02%

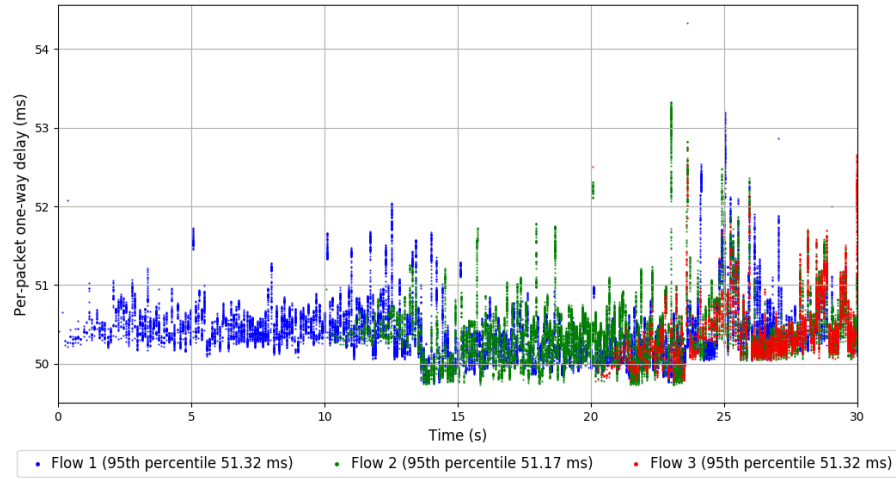
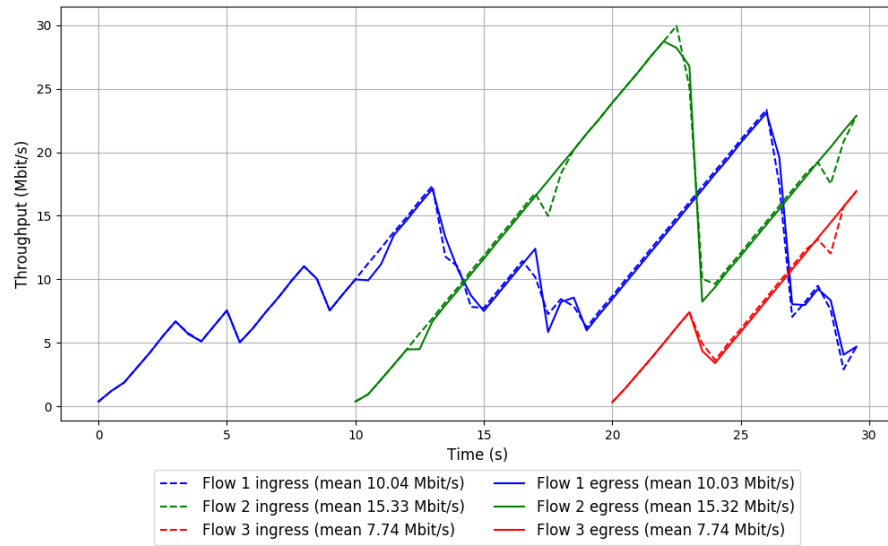
-- Flow 3:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 51.323 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

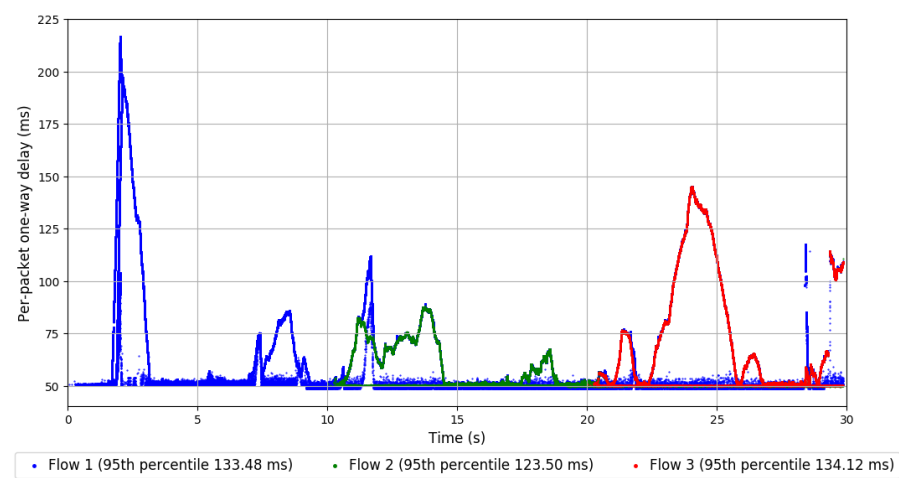
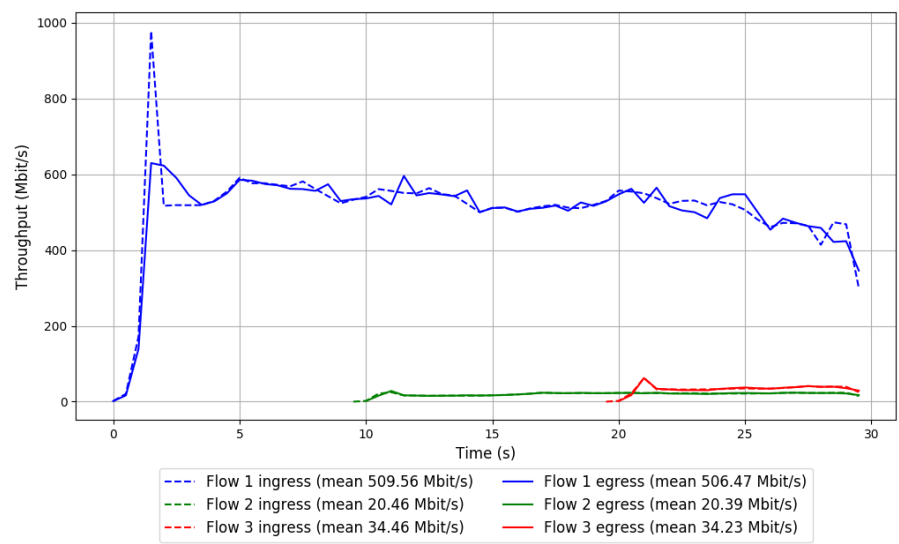


```
Run 1: Statistics of PCC

Start at: 2017-11-17 01:44:43
End at: 2017-11-17 01:45:13

# Below is generated by plot.py at 2017-11-17 05:18:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 531.30 Mbit/s
95th percentile per-packet one-way delay: 133.441 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 506.47 Mbit/s
95th percentile per-packet one-way delay: 133.478 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 20.39 Mbit/s
95th percentile per-packet one-way delay: 123.504 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 34.23 Mbit/s
95th percentile per-packet one-way delay: 134.121 ms
Loss rate: 0.66%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-11-17 01:56:48

End at: 2017-11-17 01:57:18

Below is generated by plot.py at 2017-11-17 05:18:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 541.04 Mbit/s

95th percentile per-packet one-way delay: 185.093 ms

Loss rate: 3.13%

-- Flow 1:

Average throughput: 465.15 Mbit/s

95th percentile per-packet one-way delay: 184.968 ms

Loss rate: 3.02%

-- Flow 2:

Average throughput: 113.21 Mbit/s

95th percentile per-packet one-way delay: 185.886 ms

Loss rate: 3.79%

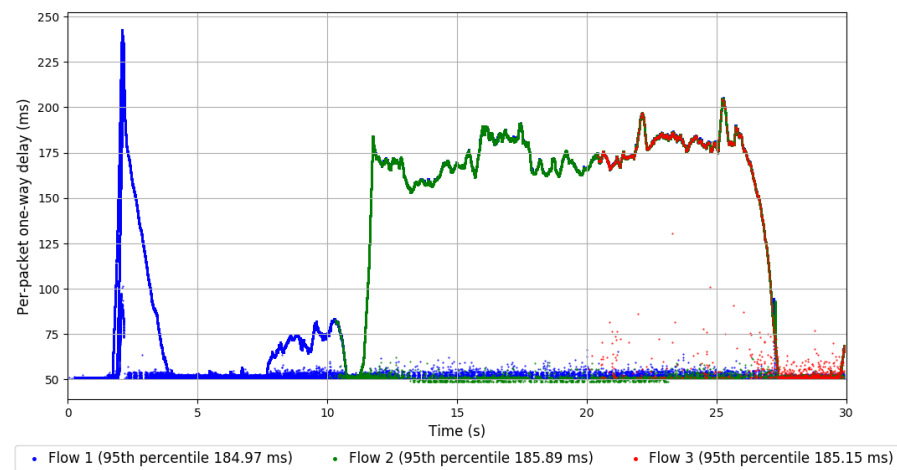
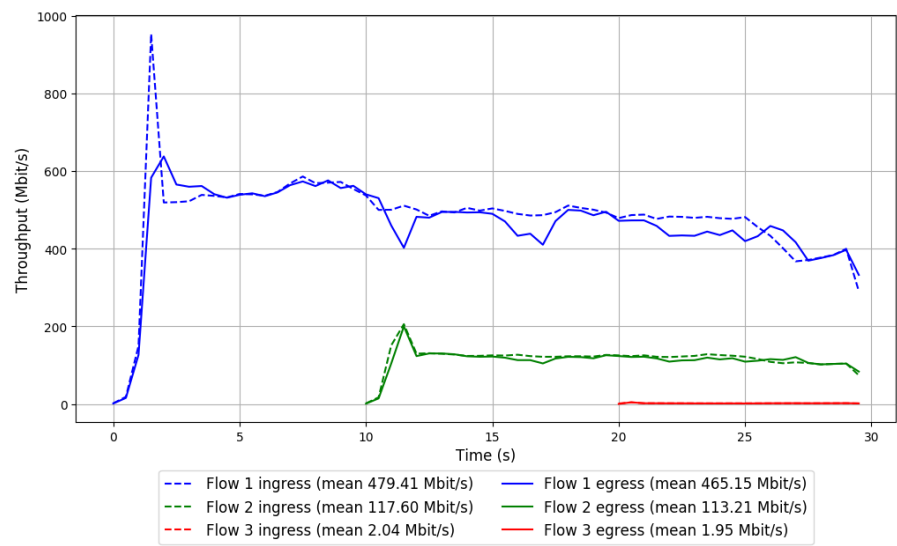
-- Flow 3:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 185.150 ms

Loss rate: 4.60%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-11-17 02:08:52

End at: 2017-11-17 02:09:22

Below is generated by plot.py at 2017-11-17 05:18:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 491.16 Mbit/s

95th percentile per-packet one-way delay: 143.219 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 466.79 Mbit/s

95th percentile per-packet one-way delay: 143.597 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 32.67 Mbit/s

95th percentile per-packet one-way delay: 138.314 ms

Loss rate: 0.00%

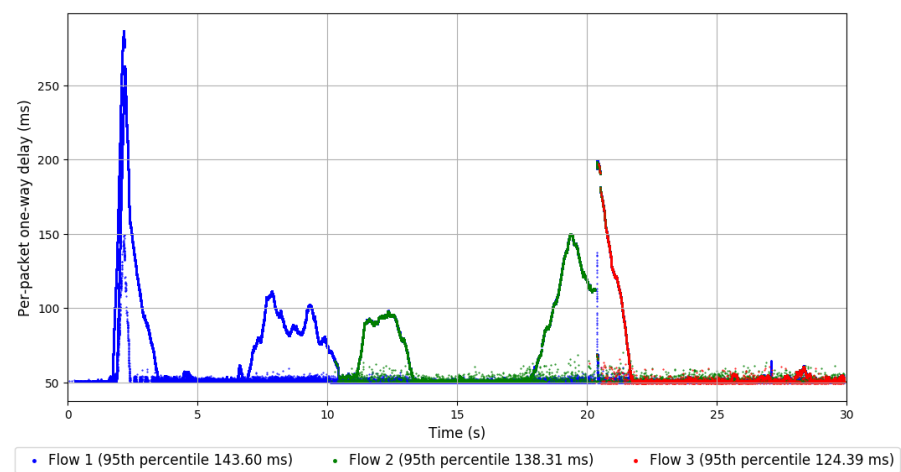
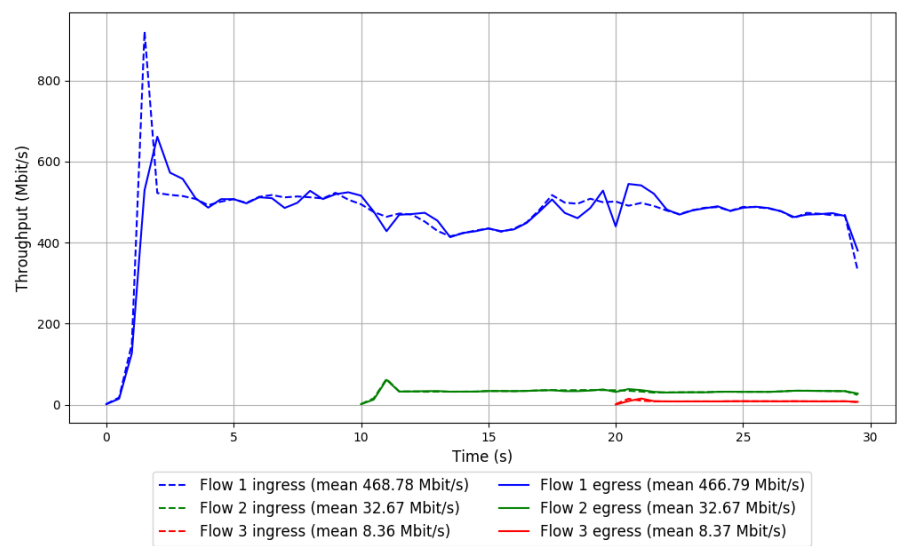
-- Flow 3:

Average throughput: 8.37 Mbit/s

95th percentile per-packet one-way delay: 124.388 ms

Loss rate: 0.00%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-11-17 02:20:59

End at: 2017-11-17 02:21:29

Below is generated by plot.py at 2017-11-17 05:19:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 550.97 Mbit/s

95th percentile per-packet one-way delay: 187.927 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 546.57 Mbit/s

95th percentile per-packet one-way delay: 187.938 ms

Loss rate: 1.27%

-- Flow 2:

Average throughput: 4.45 Mbit/s

95th percentile per-packet one-way delay: 188.155 ms

Loss rate: 1.83%

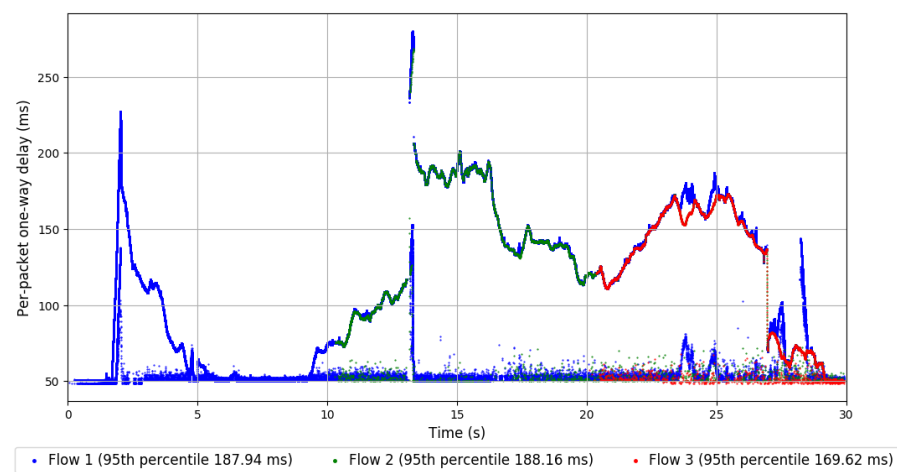
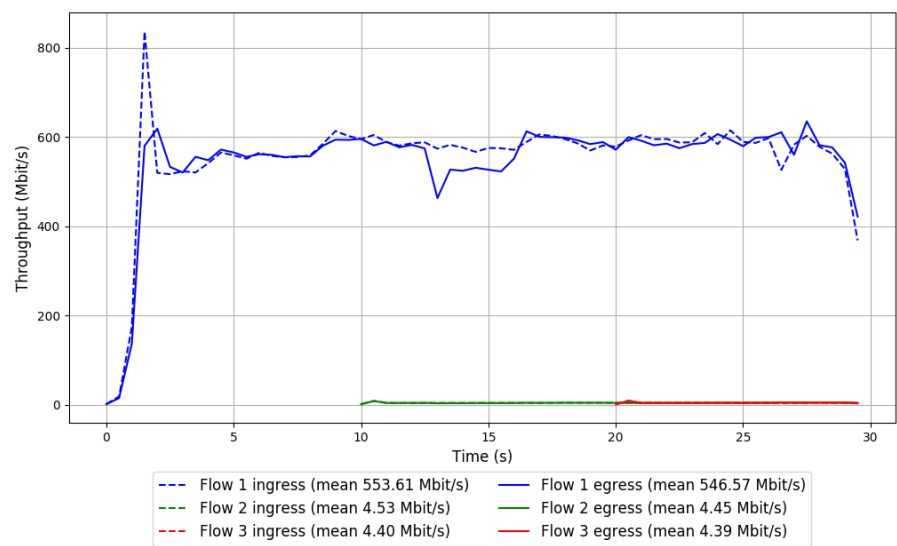
-- Flow 3:

Average throughput: 4.39 Mbit/s

95th percentile per-packet one-way delay: 169.622 ms

Loss rate: 0.19%

Run 4: Report of PCC — Data Link

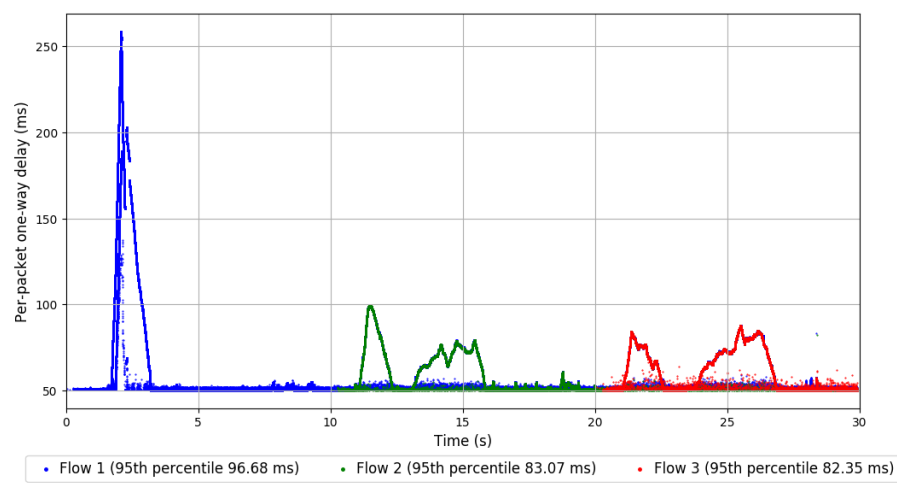
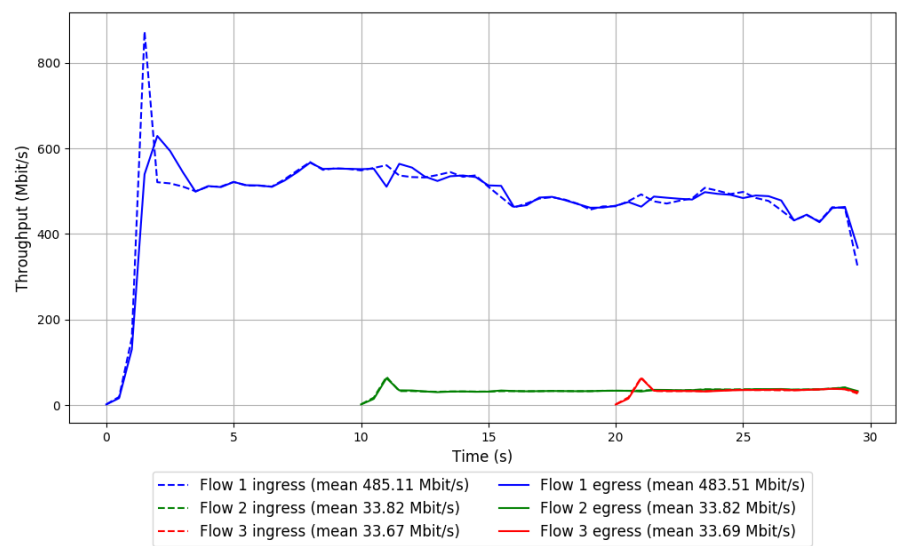


```
Run 5: Statistics of PCC

Start at: 2017-11-17 02:33:10
End at: 2017-11-17 02:33:40

# Below is generated by plot.py at 2017-11-17 05:19:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 517.08 Mbit/s
95th percentile per-packet one-way delay: 94.627 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 483.51 Mbit/s
95th percentile per-packet one-way delay: 96.679 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 33.82 Mbit/s
95th percentile per-packet one-way delay: 83.071 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 33.69 Mbit/s
95th percentile per-packet one-way delay: 82.346 ms
Loss rate: 0.01%
```

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-11-17 02:45:27

End at: 2017-11-17 02:45:57

Below is generated by plot.py at 2017-11-17 05:19:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 514.44 Mbit/s

95th percentile per-packet one-way delay: 194.644 ms

Loss rate: 2.37%

-- Flow 1:

Average throughput: 510.15 Mbit/s

95th percentile per-packet one-way delay: 194.653 ms

Loss rate: 2.36%

-- Flow 2:

Average throughput: 4.38 Mbit/s

95th percentile per-packet one-way delay: 194.767 ms

Loss rate: 3.02%

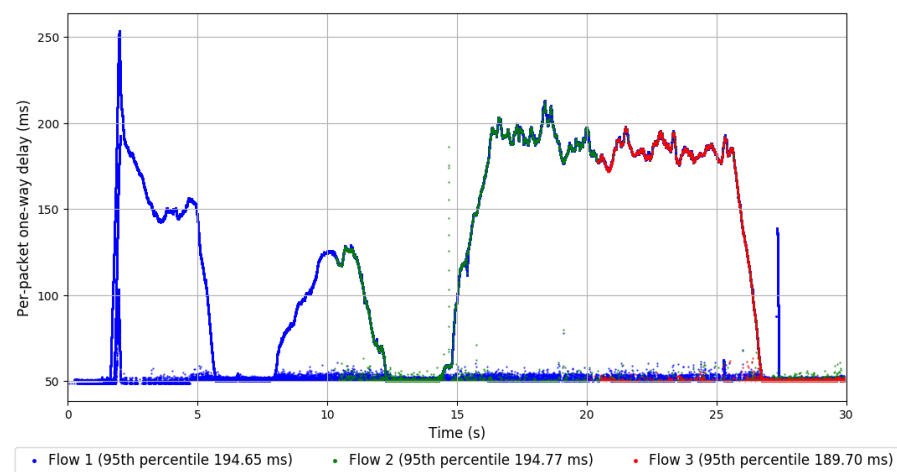
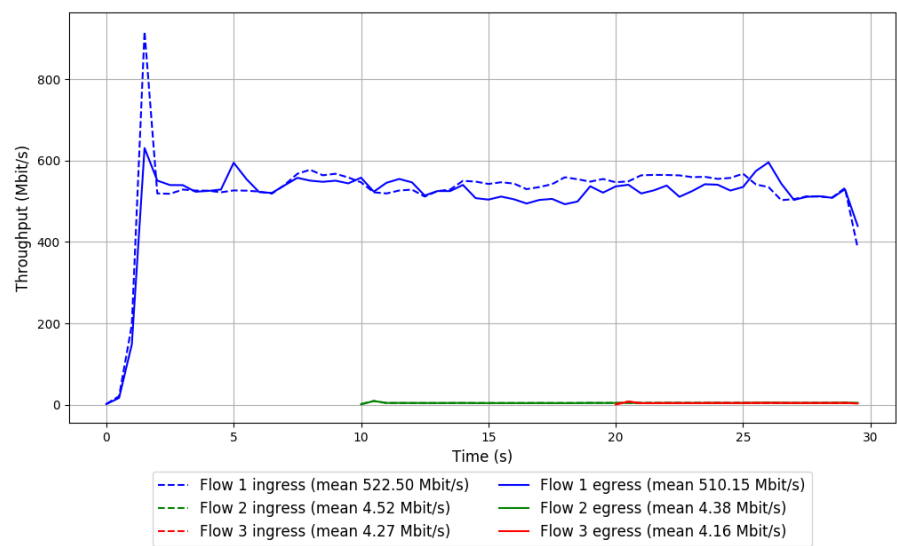
-- Flow 3:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 189.698 ms

Loss rate: 2.66%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-17 02:57:32

End at: 2017-11-17 02:58:02

Below is generated by plot.py at 2017-11-17 05:19:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 527.47 Mbit/s

95th percentile per-packet one-way delay: 162.846 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 517.64 Mbit/s

95th percentile per-packet one-way delay: 162.767 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 6.68 Mbit/s

95th percentile per-packet one-way delay: 164.177 ms

Loss rate: 0.04%

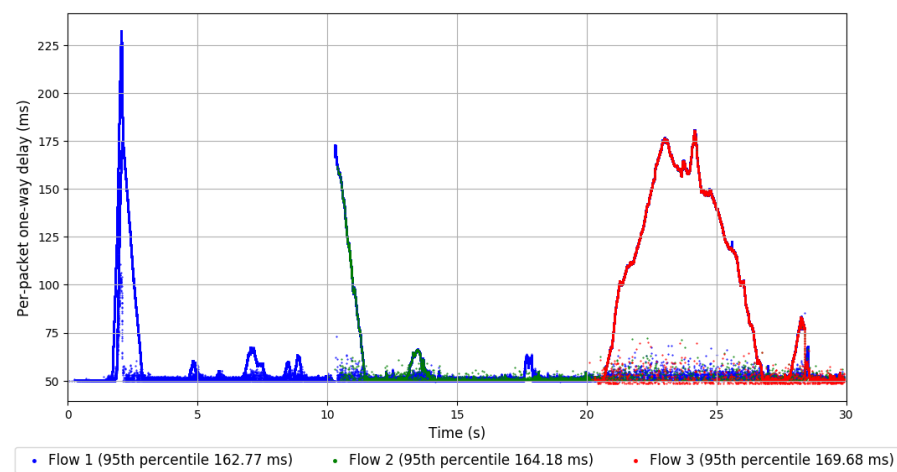
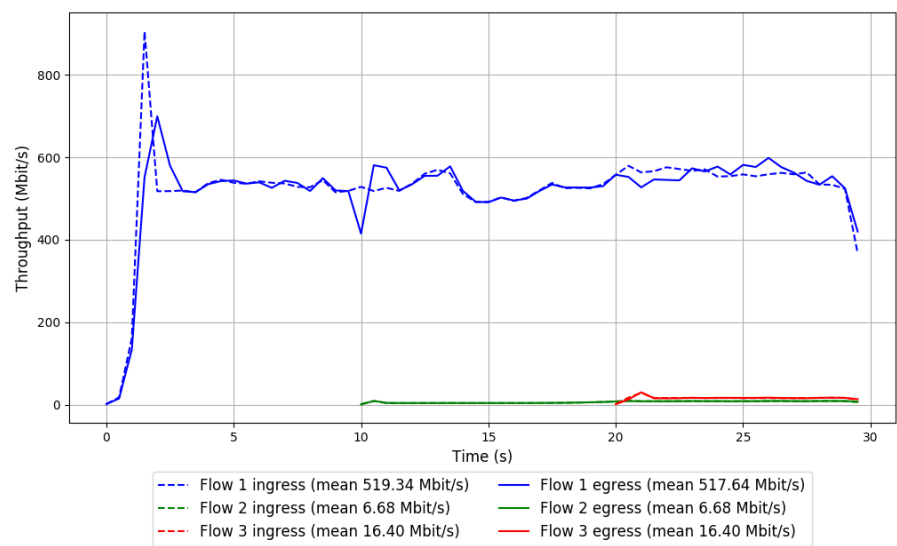
-- Flow 3:

Average throughput: 16.40 Mbit/s

95th percentile per-packet one-way delay: 169.677 ms

Loss rate: 0.11%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-11-17 03:09:41

End at: 2017-11-17 03:10:11

Below is generated by plot.py at 2017-11-17 05:20:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 526.28 Mbit/s

95th percentile per-packet one-way delay: 191.618 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 521.19 Mbit/s

95th percentile per-packet one-way delay: 191.683 ms

Loss rate: 1.53%

-- Flow 2:

Average throughput: 3.57 Mbit/s

95th percentile per-packet one-way delay: 184.502 ms

Loss rate: 1.63%

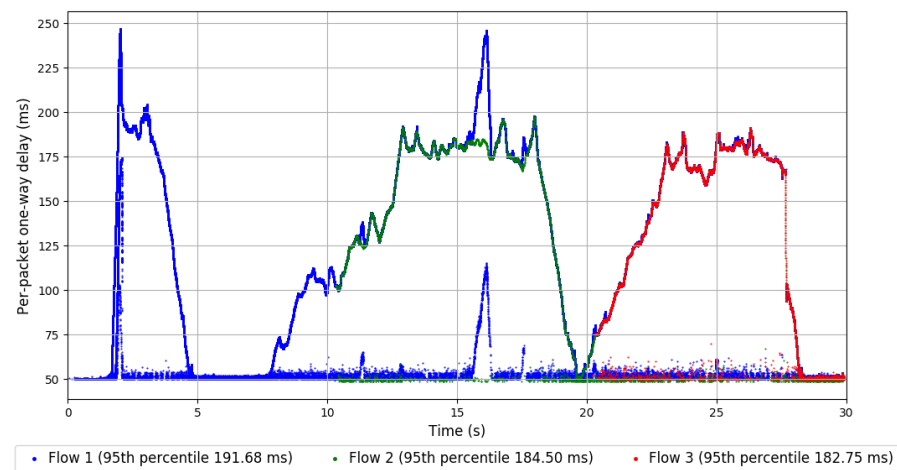
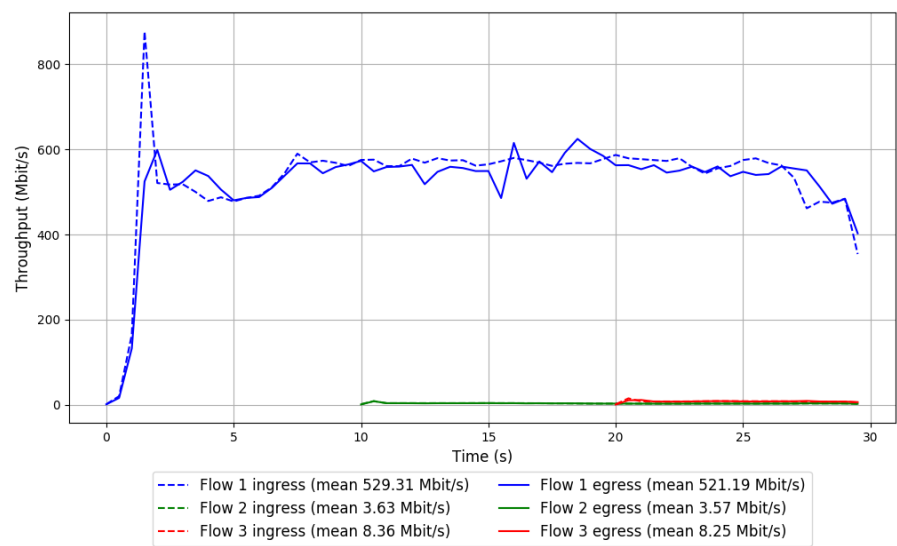
-- Flow 3:

Average throughput: 8.25 Mbit/s

95th percentile per-packet one-way delay: 182.747 ms

Loss rate: 1.34%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-11-17 03:21:52

End at: 2017-11-17 03:22:22

Below is generated by plot.py at 2017-11-17 05:26:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 511.59 Mbit/s

95th percentile per-packet one-way delay: 175.009 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 499.43 Mbit/s

95th percentile per-packet one-way delay: 175.000 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 16.20 Mbit/s

95th percentile per-packet one-way delay: 175.113 ms

Loss rate: 1.01%

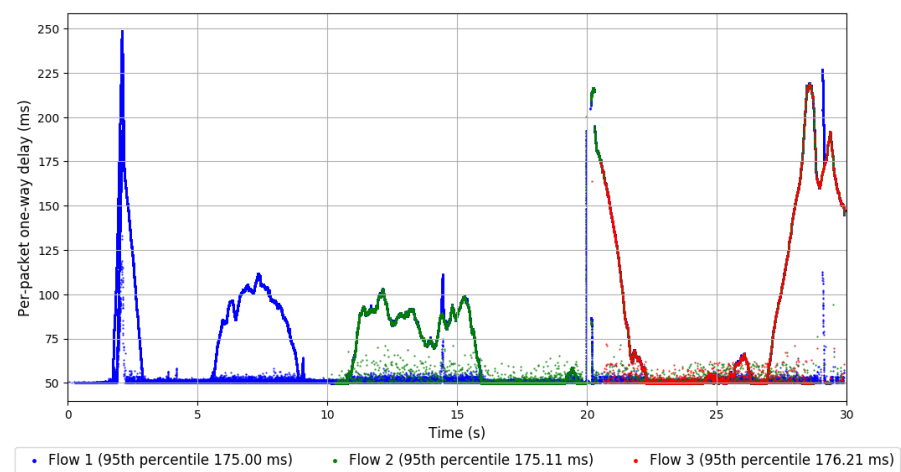
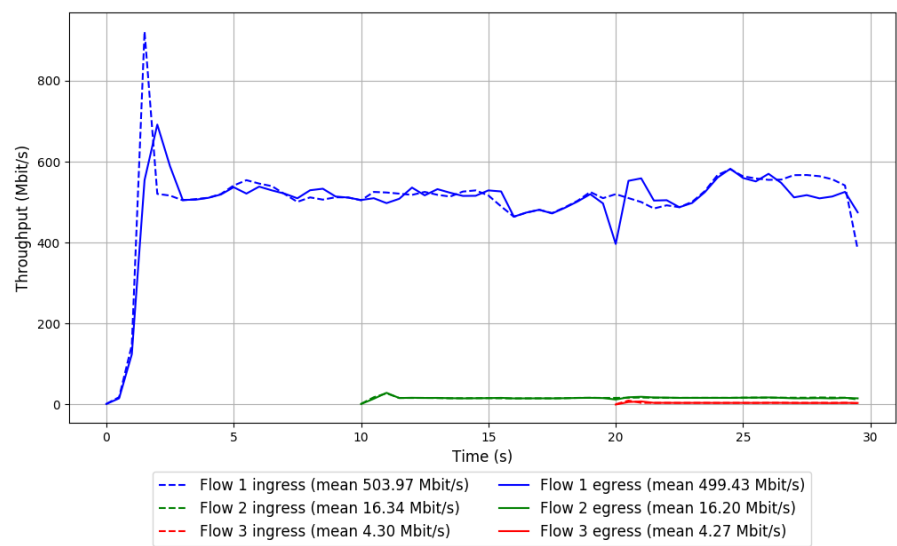
-- Flow 3:

Average throughput: 4.27 Mbit/s

95th percentile per-packet one-way delay: 176.213 ms

Loss rate: 2.20%

Run 9: Report of PCC — Data Link

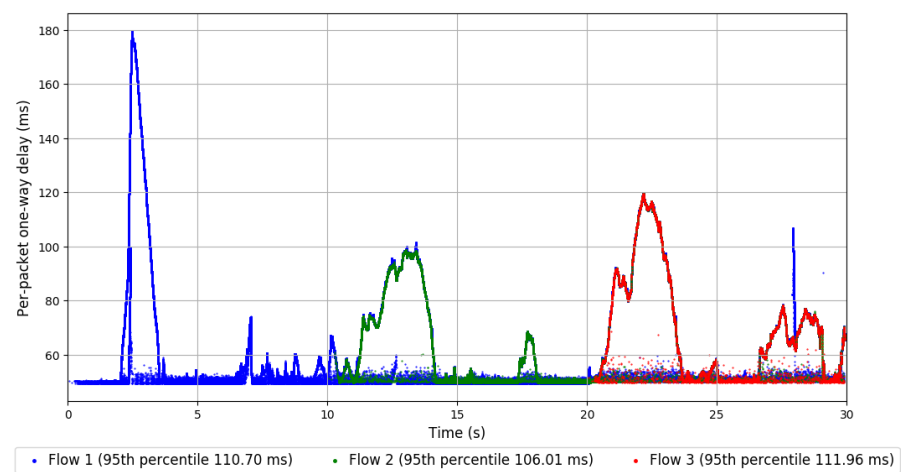
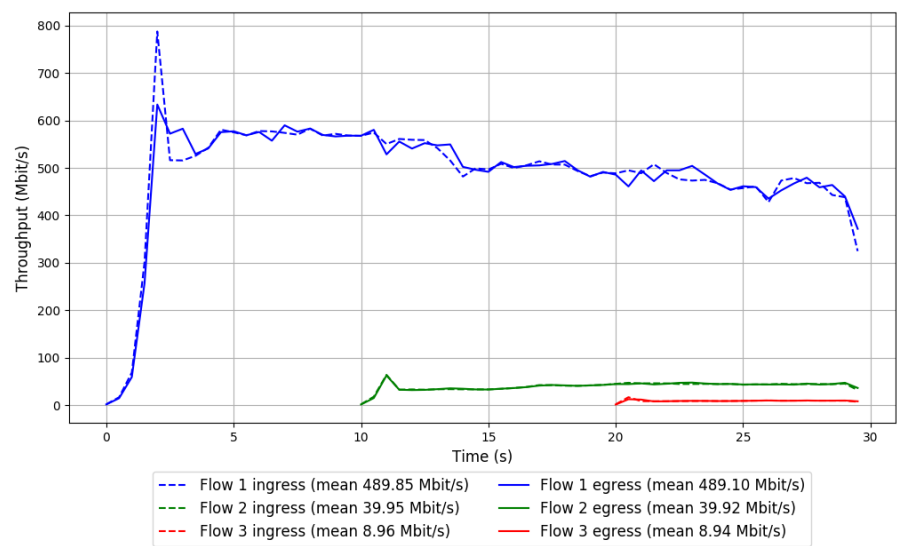


```
Run 10: Statistics of PCC

Start at: 2017-11-17 03:34:02
End at: 2017-11-17 03:34:32

# Below is generated by plot.py at 2017-11-17 05:26:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 518.59 Mbit/s
95th percentile per-packet one-way delay: 110.471 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 489.10 Mbit/s
95th percentile per-packet one-way delay: 110.699 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 39.92 Mbit/s
95th percentile per-packet one-way delay: 106.010 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 8.94 Mbit/s
95th percentile per-packet one-way delay: 111.964 ms
Loss rate: 0.00%
```

Run 10: Report of PCC — Data Link

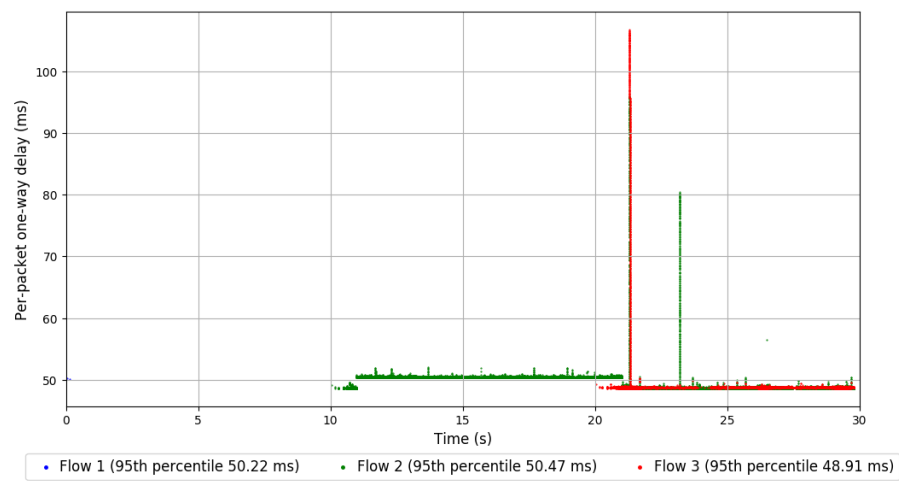
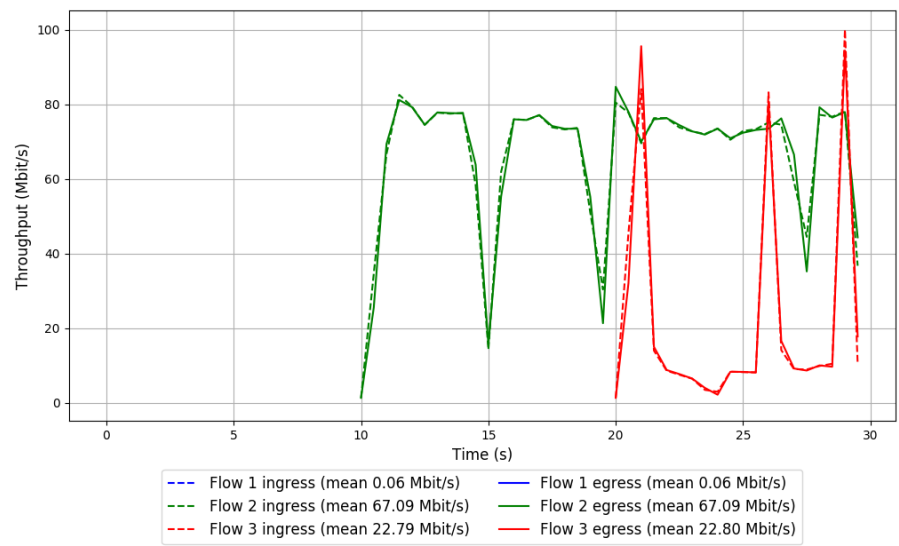


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-11-17 01:39:20
End at: 2017-11-17 01:39:50

# Below is generated by plot.py at 2017-11-17 05:26:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 51.98 Mbit/s
95th percentile per-packet one-way delay: 50.471 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 50.219 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 67.09 Mbit/s
95th percentile per-packet one-way delay: 50.474 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 22.80 Mbit/s
95th percentile per-packet one-way delay: 48.907 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link

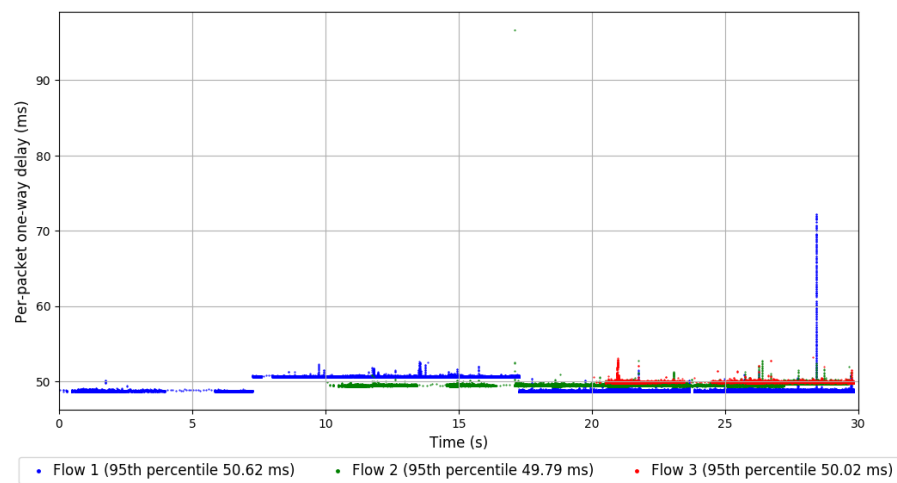
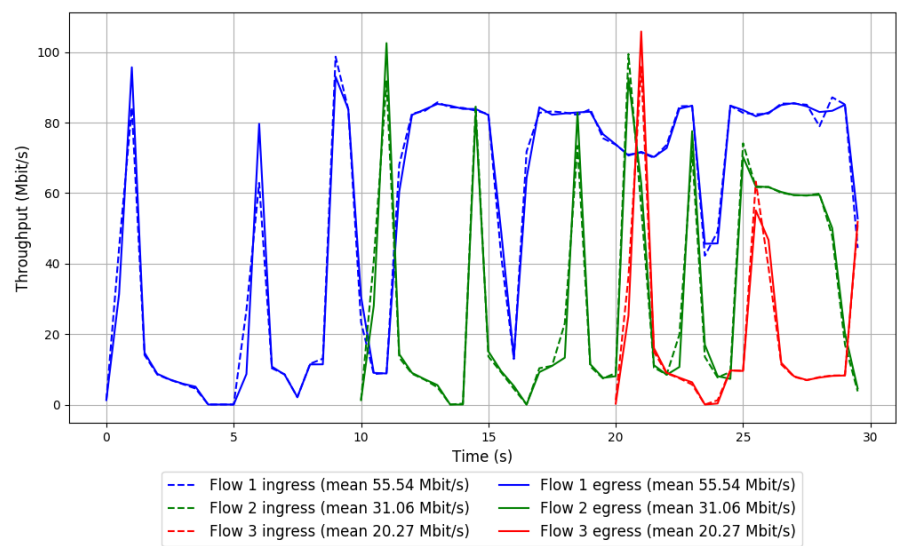


```
Run 2: Statistics of QUIC Cubic

Start at: 2017-11-17 01:51:24
End at: 2017-11-17 01:51:54

# Below is generated by plot.py at 2017-11-17 05:26:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.78 Mbit/s
95th percentile per-packet one-way delay: 50.607 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.54 Mbit/s
95th percentile per-packet one-way delay: 50.622 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 31.06 Mbit/s
95th percentile per-packet one-way delay: 49.794 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.27 Mbit/s
95th percentile per-packet one-way delay: 50.024 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-17 02:03:26

End at: 2017-11-17 02:03:56

Below is generated by plot.py at 2017-11-17 05:26:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 126.57 Mbit/s

95th percentile per-packet one-way delay: 50.821 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 74.45 Mbit/s

95th percentile per-packet one-way delay: 50.793 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 62.53 Mbit/s

95th percentile per-packet one-way delay: 50.785 ms

Loss rate: 0.00%

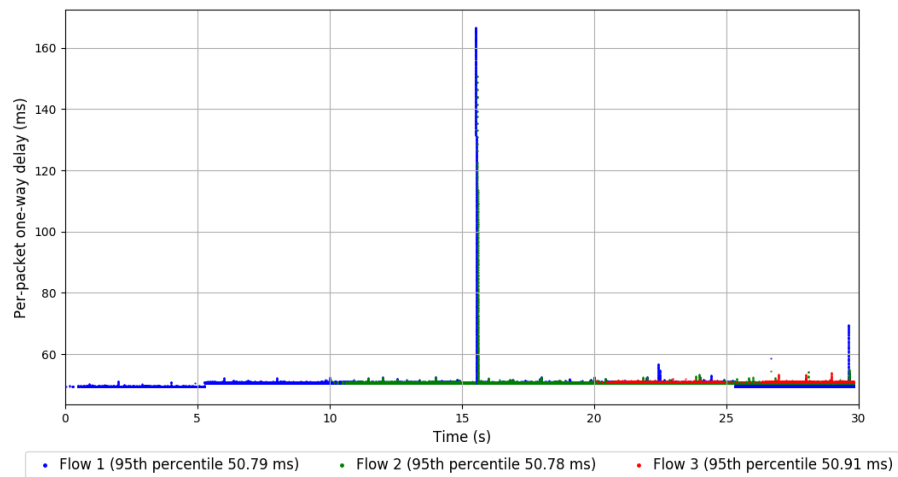
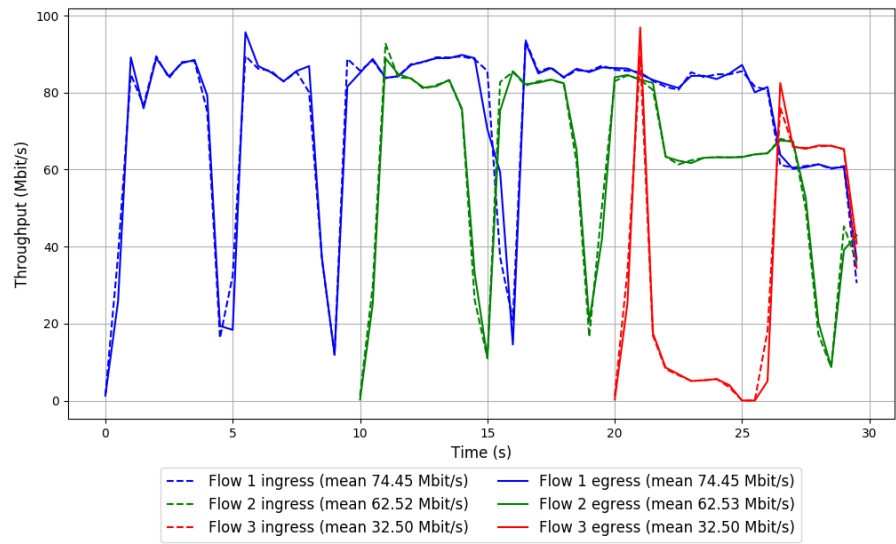
-- Flow 3:

Average throughput: 32.50 Mbit/s

95th percentile per-packet one-way delay: 50.915 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-17 02:15:29

End at: 2017-11-17 02:15:59

Below is generated by plot.py at 2017-11-17 05:26:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.81 Mbit/s

95th percentile per-packet one-way delay: 50.781 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 46.00 Mbit/s

95th percentile per-packet one-way delay: 50.557 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 31.37 Mbit/s

95th percentile per-packet one-way delay: 50.869 ms

Loss rate: 0.00%

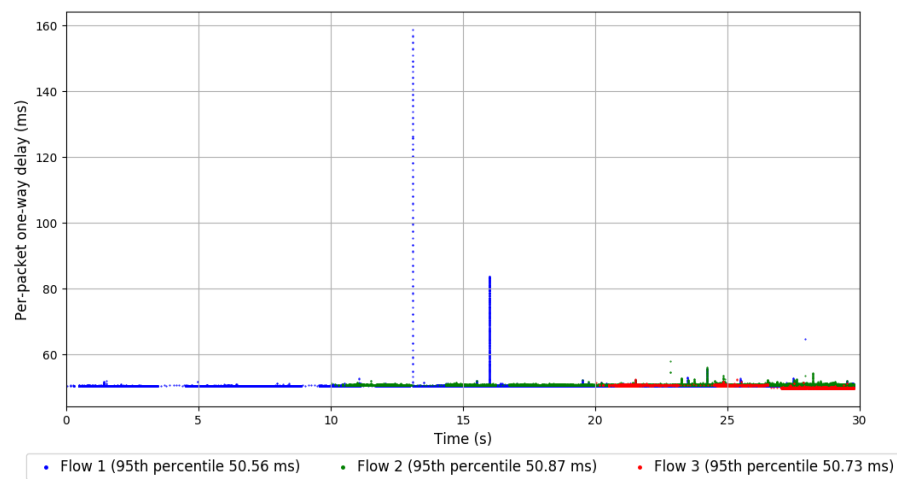
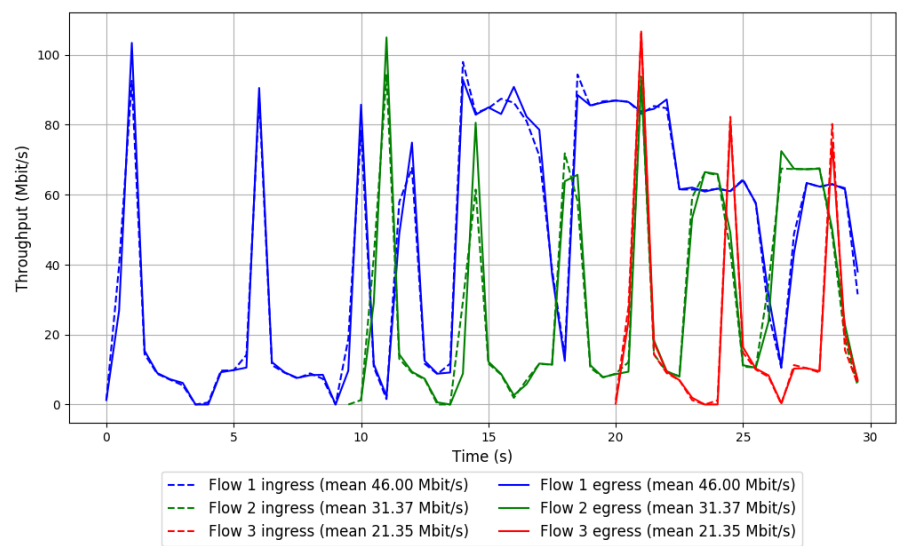
-- Flow 3:

Average throughput: 21.35 Mbit/s

95th percentile per-packet one-way delay: 50.730 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-17 02:27:37

End at: 2017-11-17 02:28:07

Below is generated by plot.py at 2017-11-17 05:26:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.17 Mbit/s

95th percentile per-packet one-way delay: 50.813 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.21 Mbit/s

95th percentile per-packet one-way delay: 50.229 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.19 Mbit/s

95th percentile per-packet one-way delay: 50.909 ms

Loss rate: 0.00%

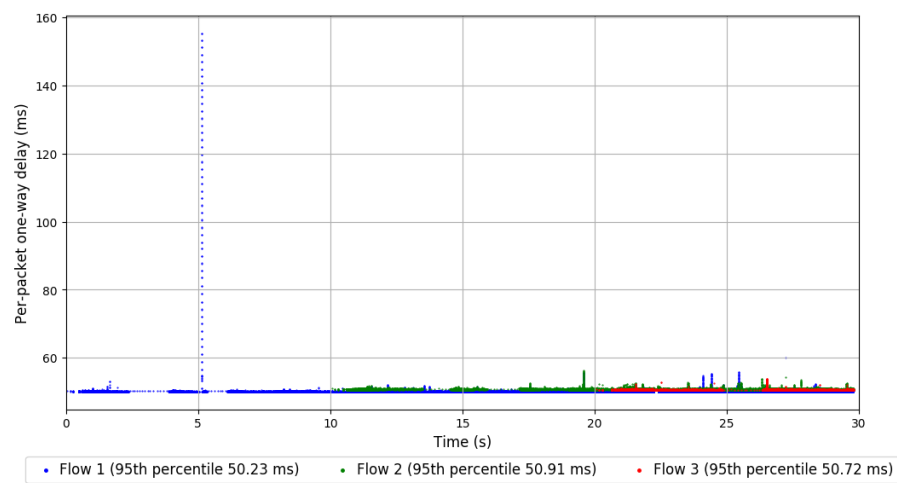
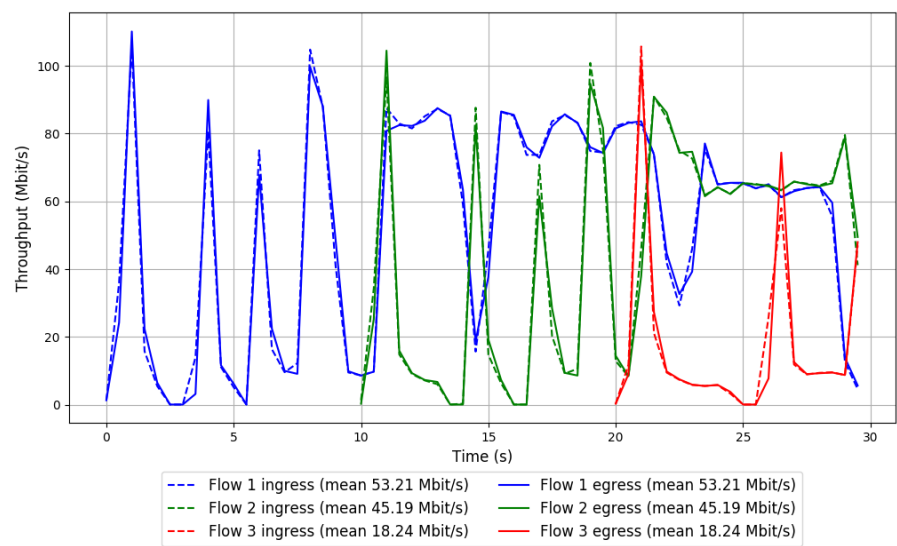
-- Flow 3:

Average throughput: 18.24 Mbit/s

95th percentile per-packet one-way delay: 50.721 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-17 02:39:52

End at: 2017-11-17 02:40:22

Below is generated by plot.py at 2017-11-17 05:26:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.17 Mbit/s

95th percentile per-packet one-way delay: 50.848 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 50.96 Mbit/s

95th percentile per-packet one-way delay: 50.870 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.03 Mbit/s

95th percentile per-packet one-way delay: 50.741 ms

Loss rate: 0.00%

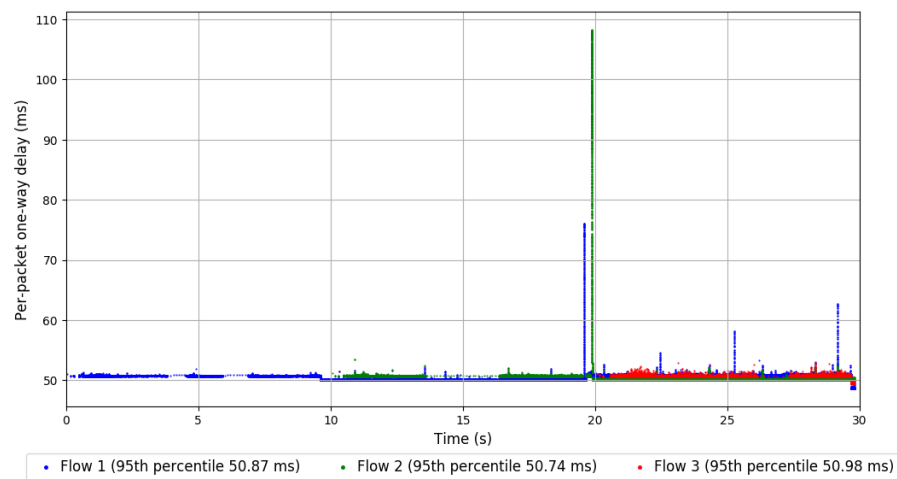
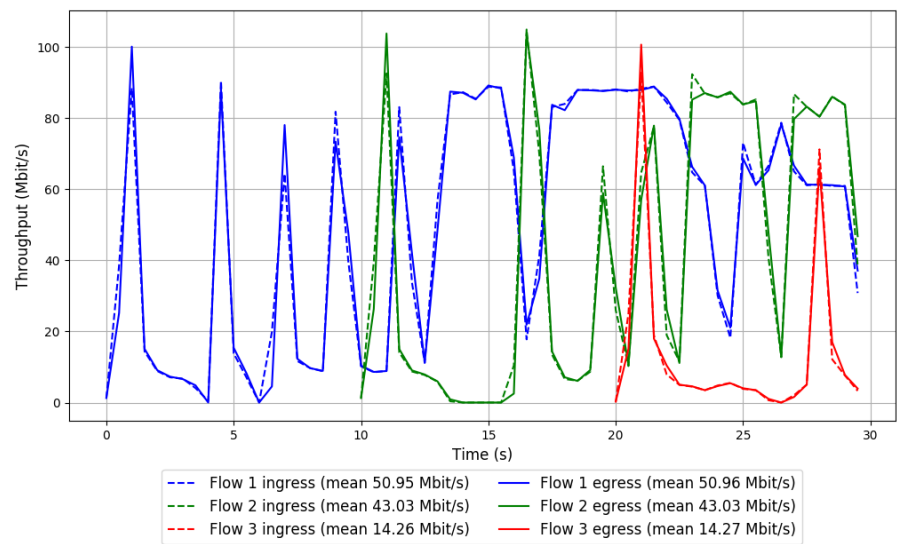
-- Flow 3:

Average throughput: 14.27 Mbit/s

95th percentile per-packet one-way delay: 50.975 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-17 02:52:08

End at: 2017-11-17 02:52:38

Below is generated by plot.py at 2017-11-17 05:26:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.10 Mbit/s

95th percentile per-packet one-way delay: 50.233 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 44.81 Mbit/s

95th percentile per-packet one-way delay: 50.191 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 24.90 Mbit/s

95th percentile per-packet one-way delay: 49.643 ms

Loss rate: 0.00%

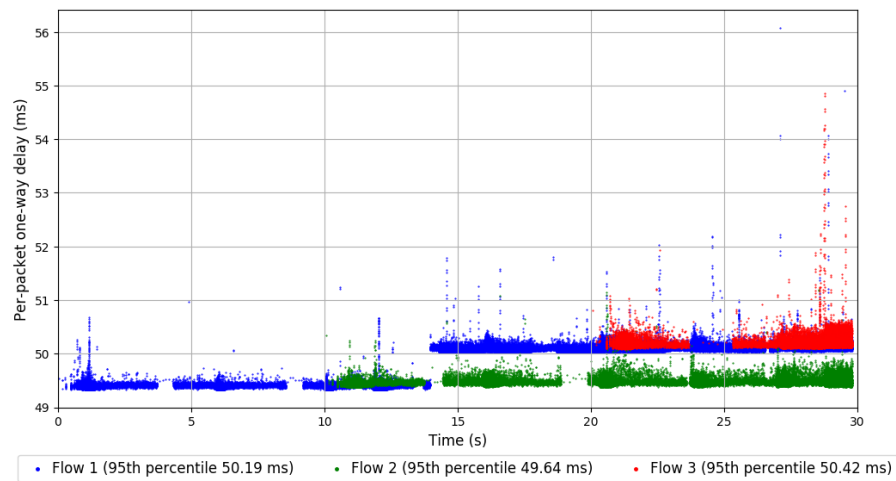
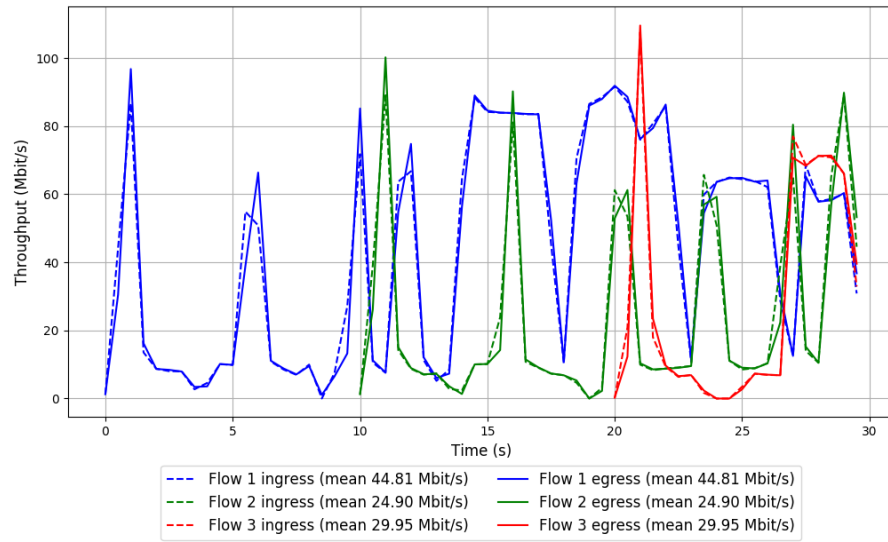
-- Flow 3:

Average throughput: 29.95 Mbit/s

95th percentile per-packet one-way delay: 50.421 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-17 03:04:11

End at: 2017-11-17 03:04:41

Below is generated by plot.py at 2017-11-17 05:26:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.61 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 38.50 Mbit/s

95th percentile per-packet one-way delay: 50.631 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.14 Mbit/s

95th percentile per-packet one-way delay: 50.303 ms

Loss rate: 0.00%

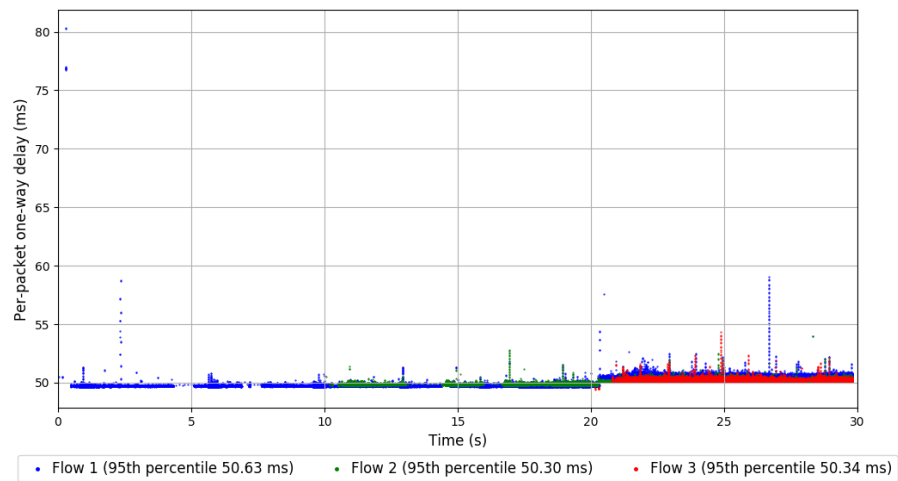
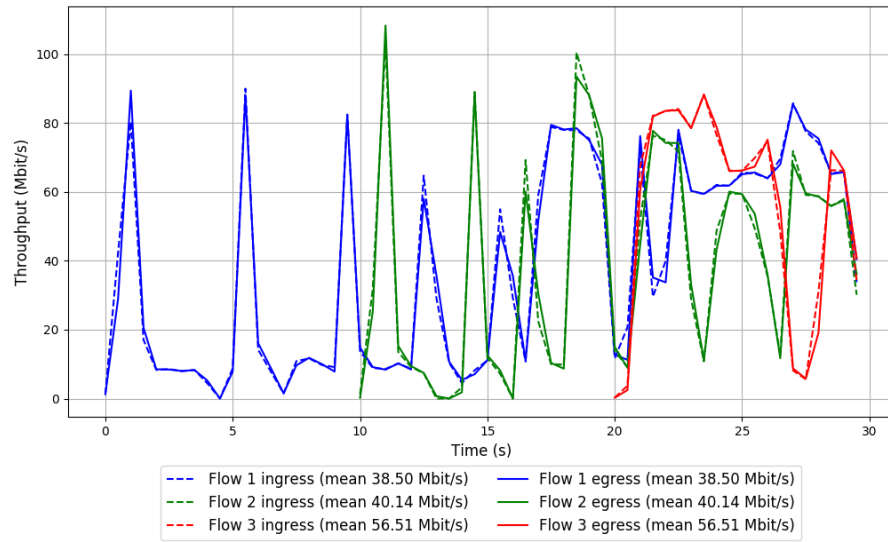
-- Flow 3:

Average throughput: 56.51 Mbit/s

95th percentile per-packet one-way delay: 50.341 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-17 03:16:17

End at: 2017-11-17 03:16:47

Below is generated by plot.py at 2017-11-17 05:26:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.26 Mbit/s

95th percentile per-packet one-way delay: 50.370 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 49.31 Mbit/s

95th percentile per-packet one-way delay: 50.267 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 29.58 Mbit/s

95th percentile per-packet one-way delay: 50.455 ms

Loss rate: 0.01%

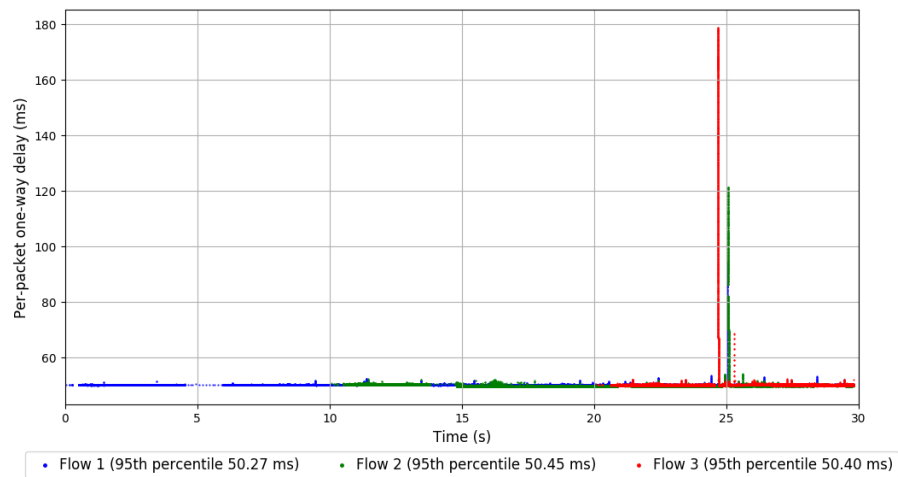
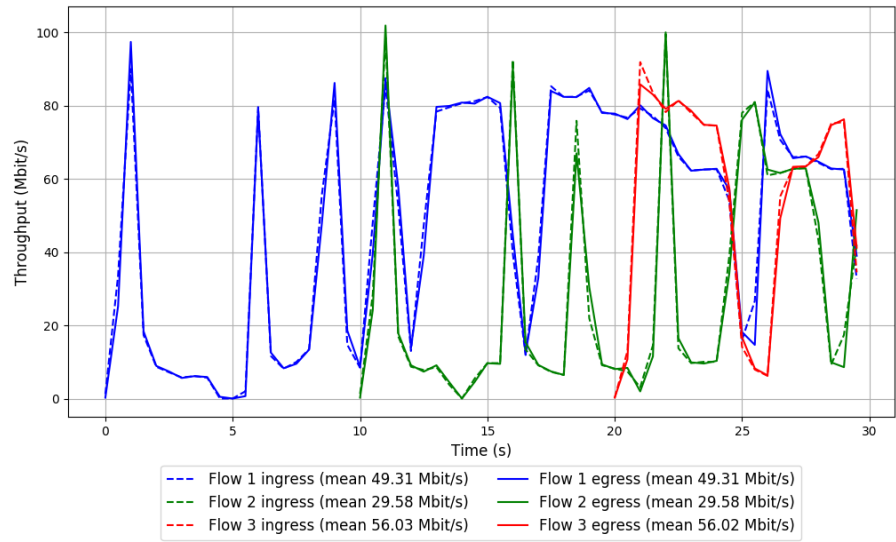
-- Flow 3:

Average throughput: 56.02 Mbit/s

95th percentile per-packet one-way delay: 50.403 ms

Loss rate: 0.02%

Run 9: Report of QUIC Cubic — Data Link

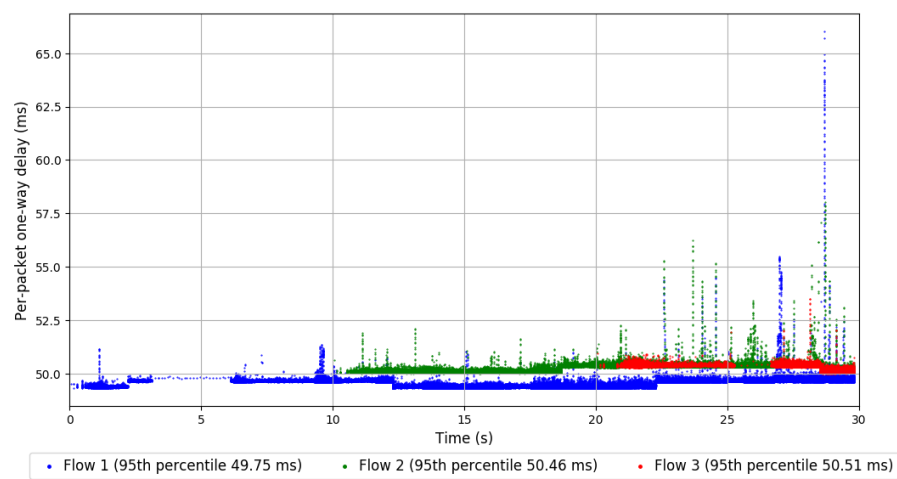
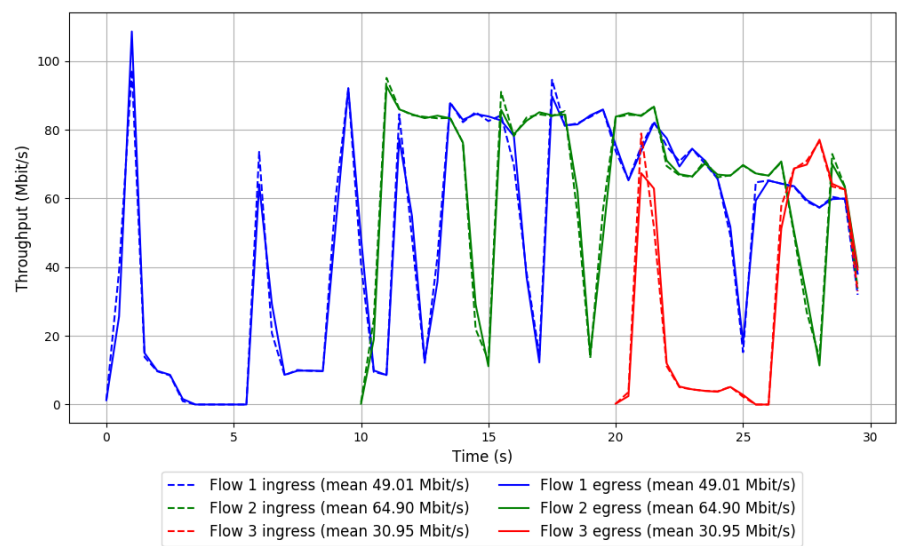


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-11-17 03:28:33
End at: 2017-11-17 03:29:03

# Below is generated by plot.py at 2017-11-17 05:26:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 102.22 Mbit/s
95th percentile per-packet one-way delay: 50.435 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.01 Mbit/s
95th percentile per-packet one-way delay: 49.753 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 64.90 Mbit/s
95th percentile per-packet one-way delay: 50.463 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.95 Mbit/s
95th percentile per-packet one-way delay: 50.505 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

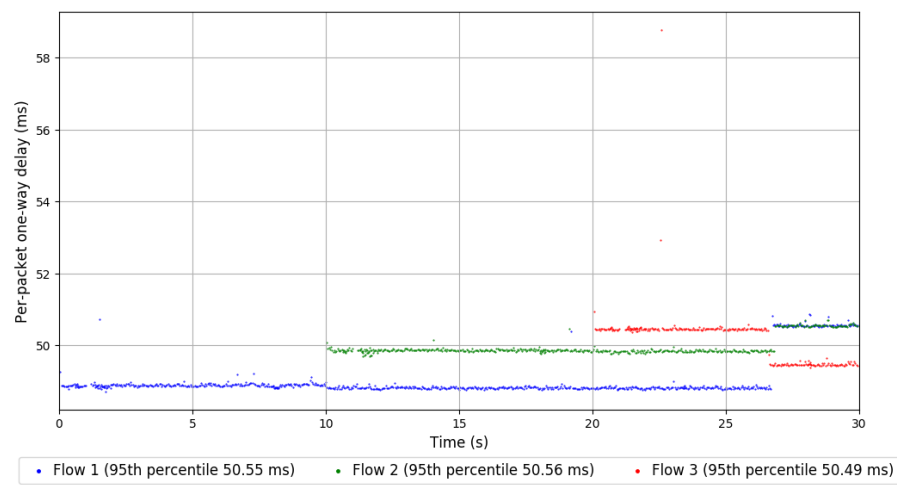
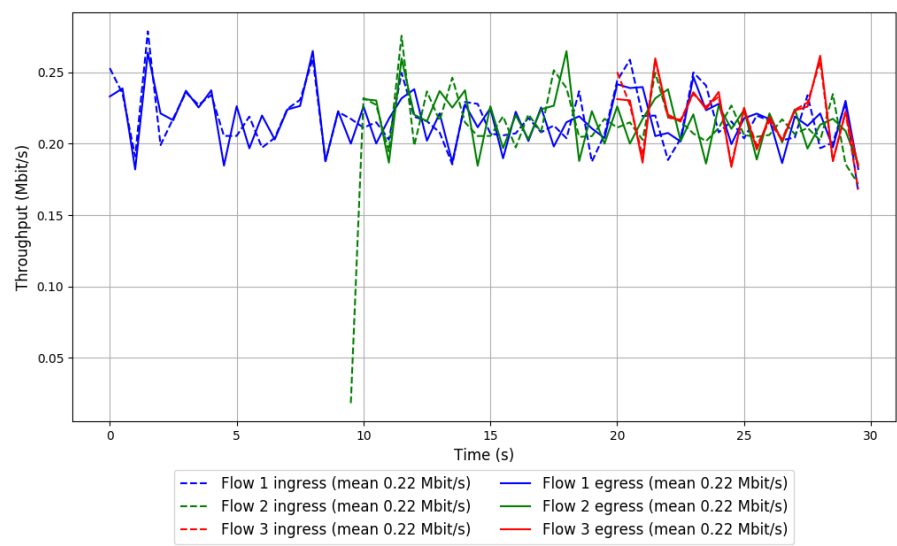


```
Run 1: Statistics of SCReAM

Start at: 2017-11-17 01:47:55
End at: 2017-11-17 01:48:25

# Below is generated by plot.py at 2017-11-17 05:26:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 50.550 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.551 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.557 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.494 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

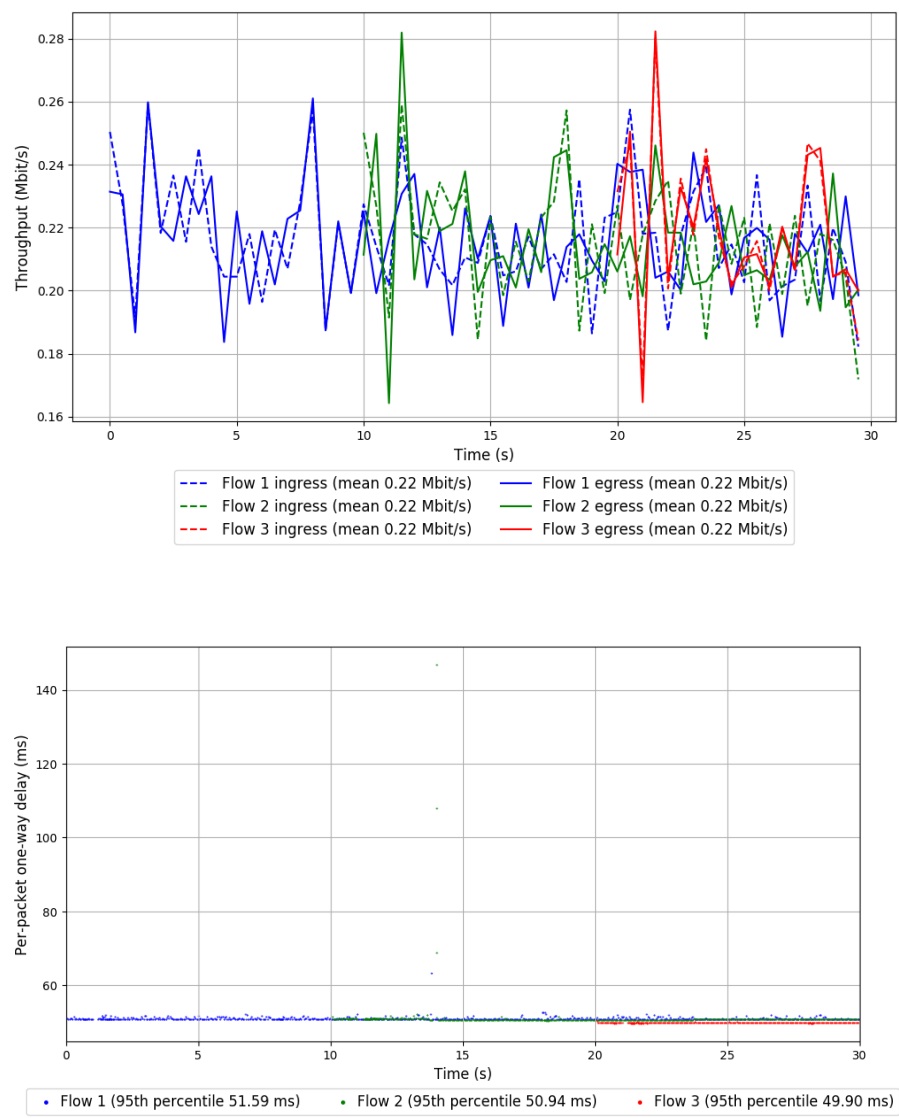


```
Run 2: Statistics of SCReAM

Start at: 2017-11-17 01:59:58
End at: 2017-11-17 02:00:28

# Below is generated by plot.py at 2017-11-17 05:26:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 51.417 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.590 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.937 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.896 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2017-11-17 02:12:02

End at: 2017-11-17 02:12:32

Below is generated by plot.py at 2017-11-17 05:26:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.972 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.615 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.988 ms

Loss rate: 0.00%

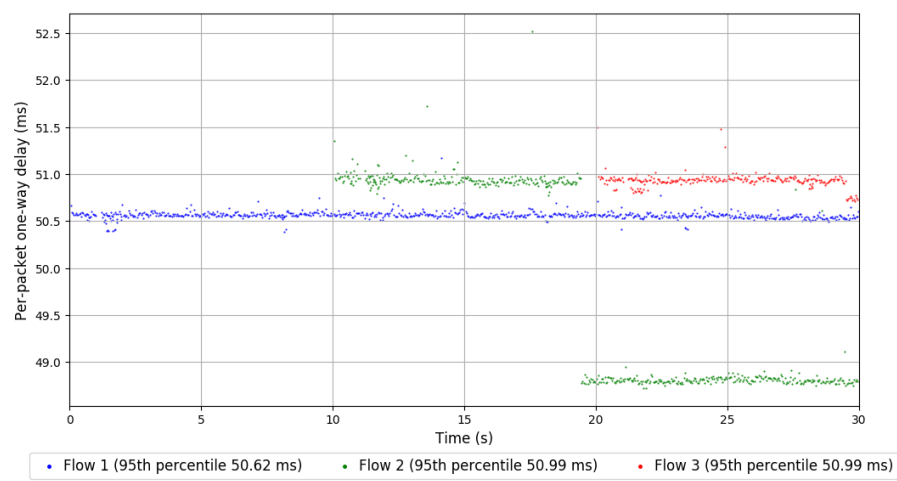
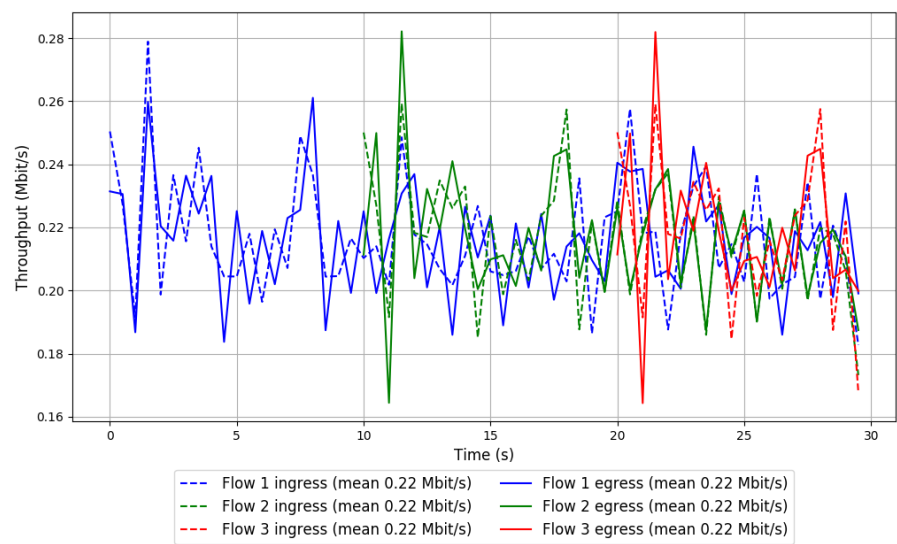
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.993 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

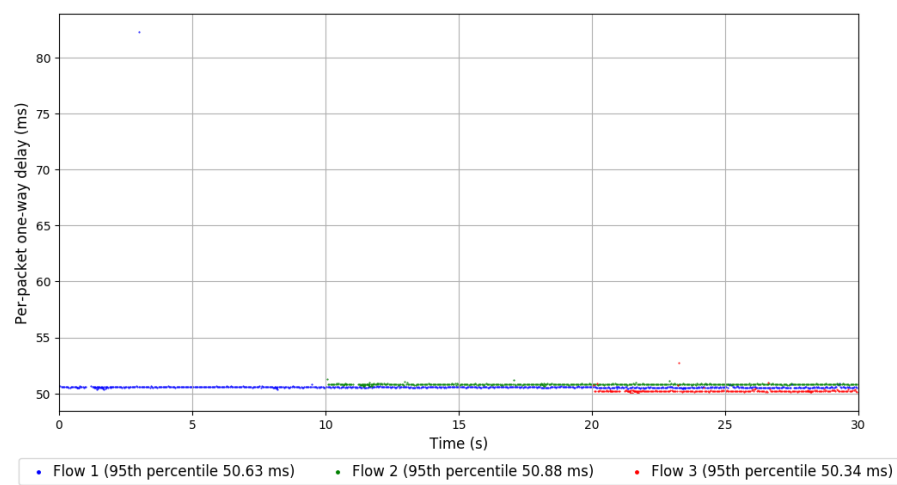
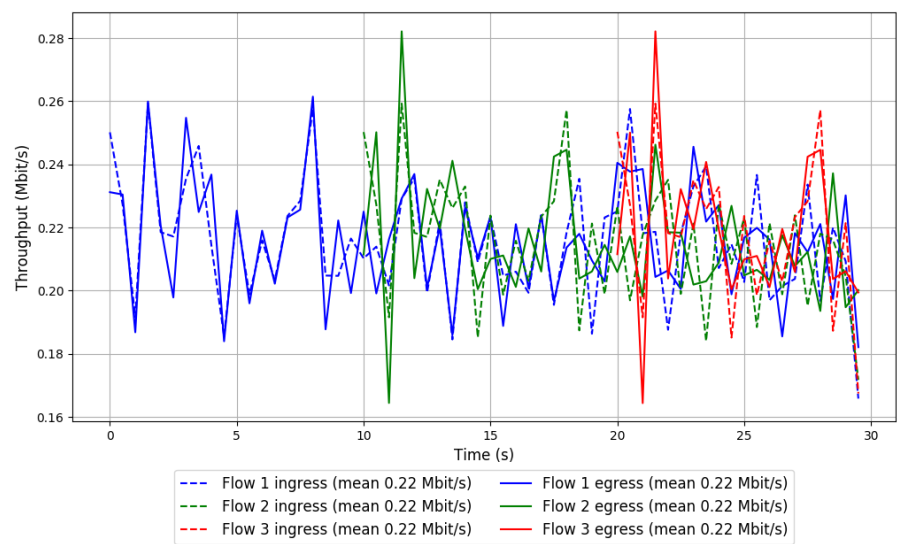


```
Run 4: Statistics of SCReAM

Start at: 2017-11-17 02:24:09
End at: 2017-11-17 02:24:39

# Below is generated by plot.py at 2017-11-17 05:26:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.853 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.628 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.877 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.344 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link

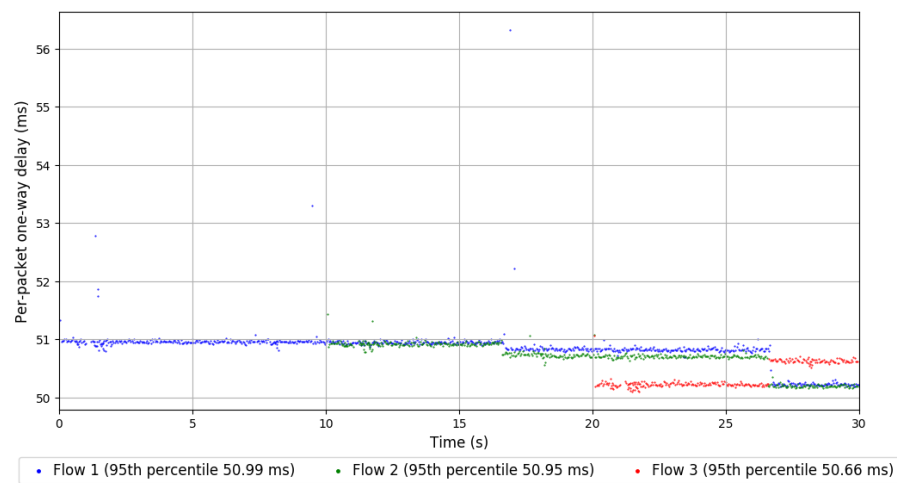
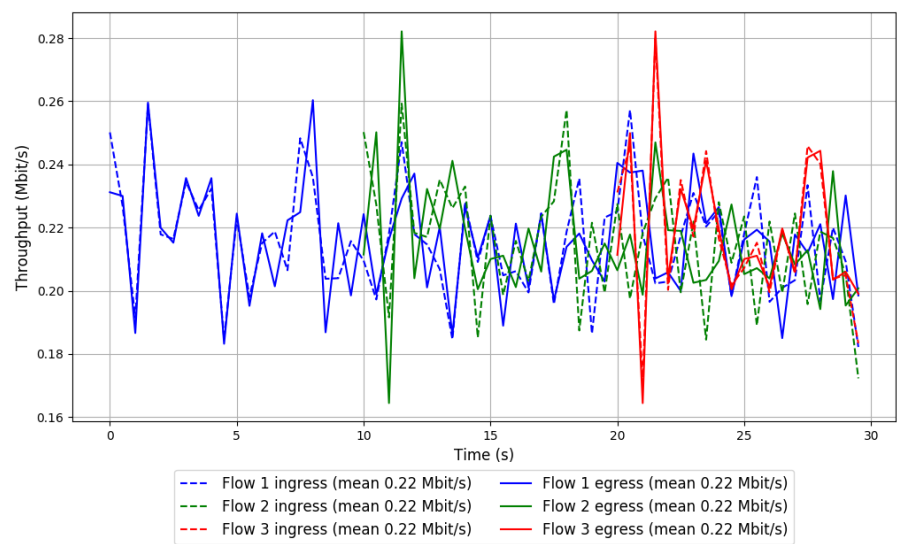


```
Run 5: Statistics of SReAM

Start at: 2017-11-17 02:36:25
End at: 2017-11-17 02:36:55

# Below is generated by plot.py at 2017-11-17 05:26:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.980 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.994 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.952 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.661 ms
Loss rate: 0.00%
```

Run 5: Report of SReAM — Data Link

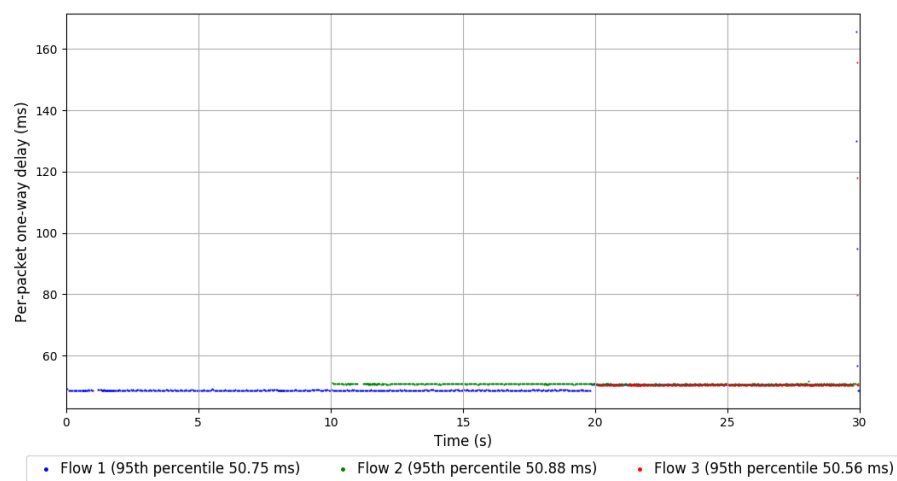
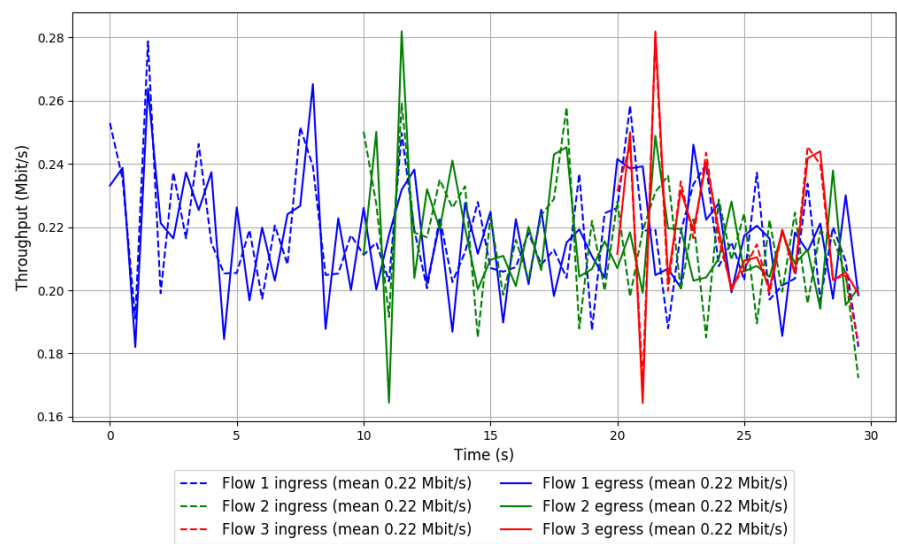


```
Run 6: Statistics of SCReAM

Start at: 2017-11-17 02:48:42
End at: 2017-11-17 02:49:12

# Below is generated by plot.py at 2017-11-17 05:26:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.850 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.748 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.879 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.564 ms
Loss rate: 0.00%
```

Run 6: Report of SReAM — Data Link

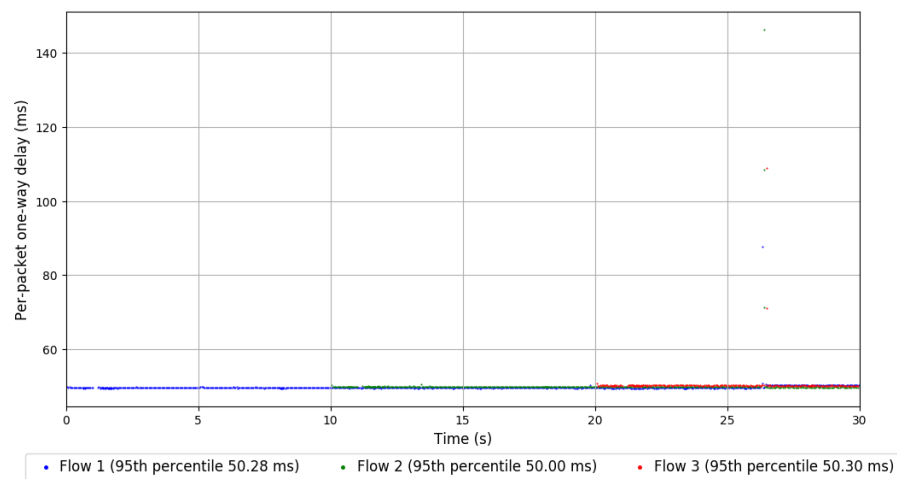
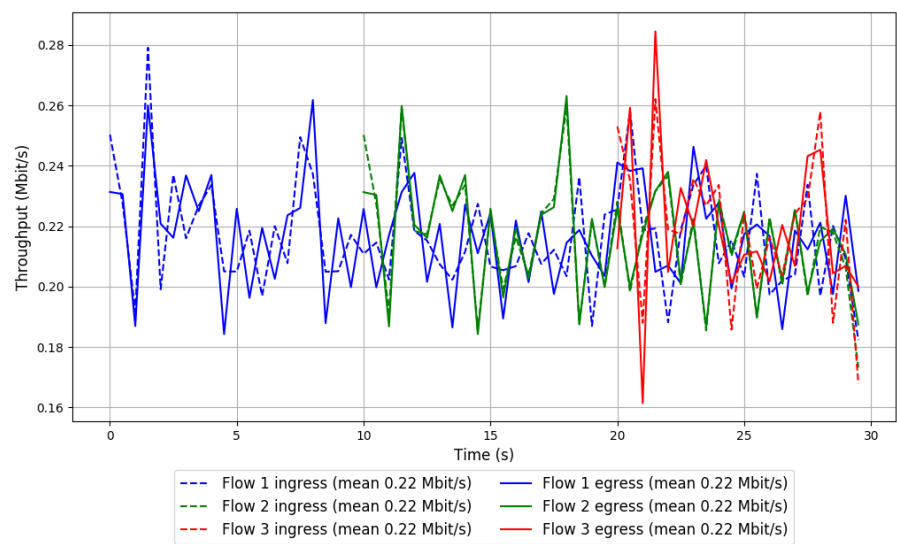


```
Run 7: Statistics of SReAM

Start at: 2017-11-17 03:00:45
End at: 2017-11-17 03:01:15

# Below is generated by plot.py at 2017-11-17 05:26:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 50.279 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.278 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.997 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.304 ms
Loss rate: 0.00%
```


Run 7: Report of SReAM — Data Link

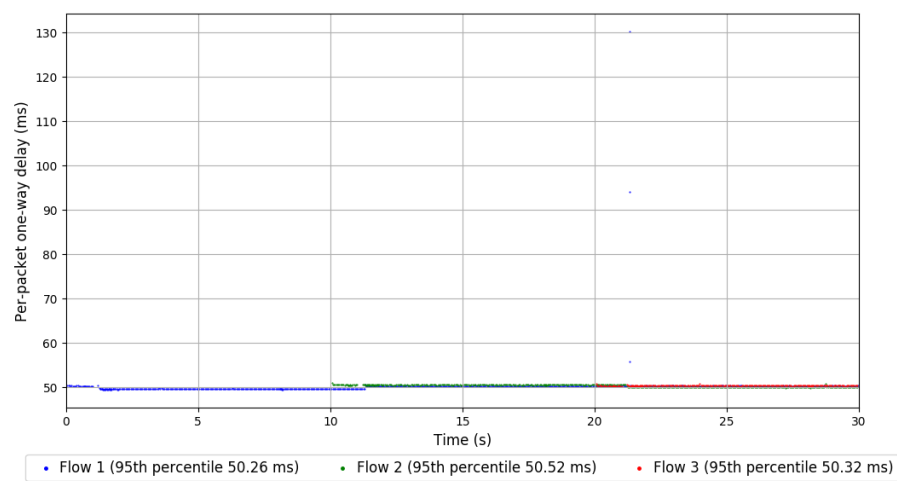
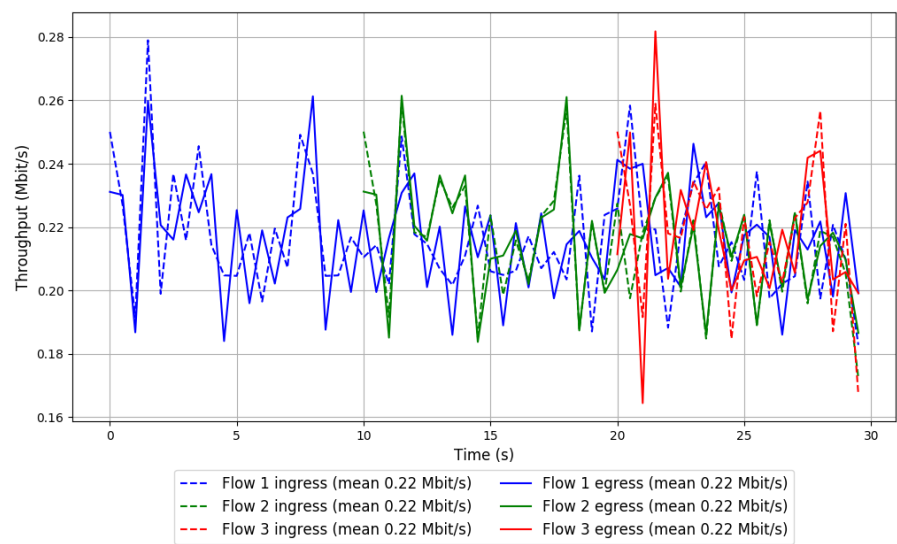


```
Run 8: Statistics of SCReAM

Start at: 2017-11-17 03:12:51
End at: 2017-11-17 03:13:21

# Below is generated by plot.py at 2017-11-17 05:26:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.480 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.255 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.517 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.324 ms
Loss rate: 0.00%
```

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2017-11-17 03:25:05

End at: 2017-11-17 03:25:35

Below is generated by plot.py at 2017-11-17 05:26:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.295 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.027 ms

Loss rate: 0.00%

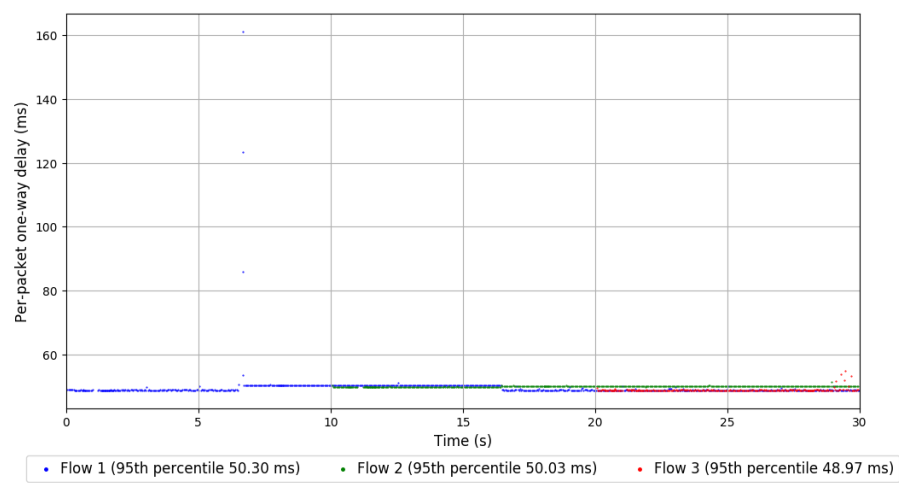
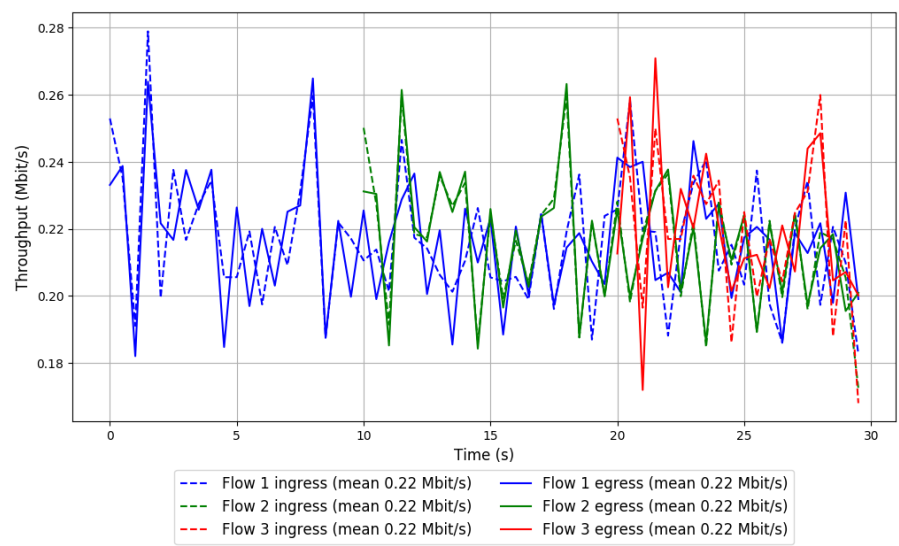
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 48.968 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

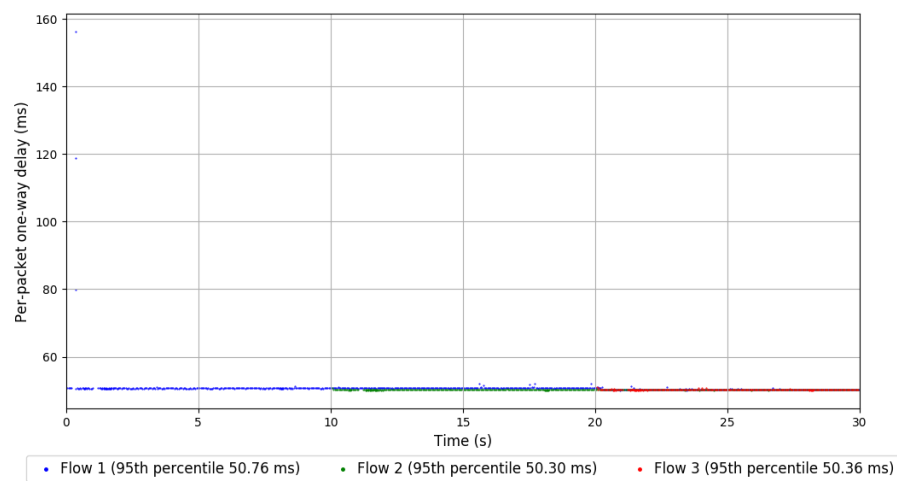
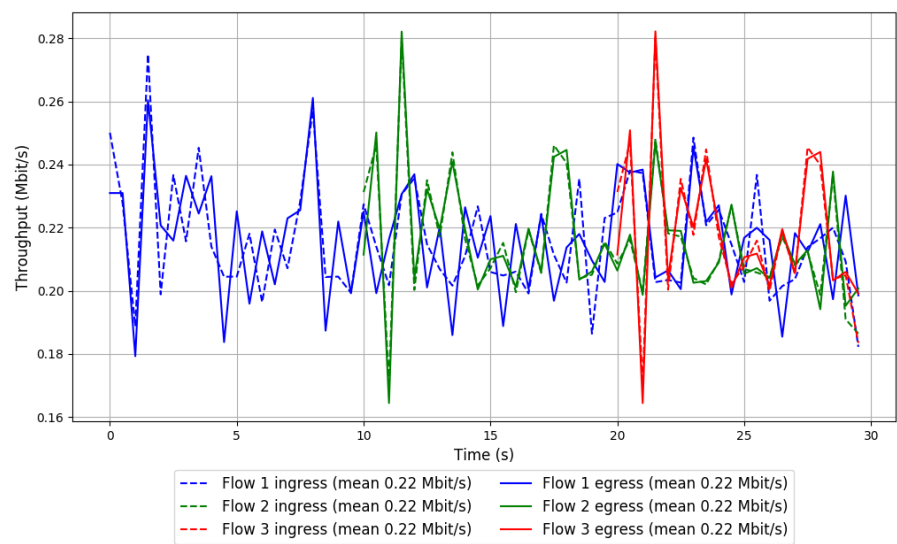


```
Run 10: Statistics of SReAM

Start at: 2017-11-17 03:37:12
End at: 2017-11-17 03:37:42

# Below is generated by plot.py at 2017-11-17 05:26:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.733 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.756 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.295 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.363 ms
Loss rate: 0.00%
```

Run 10: Report of SCReAM — Data Link

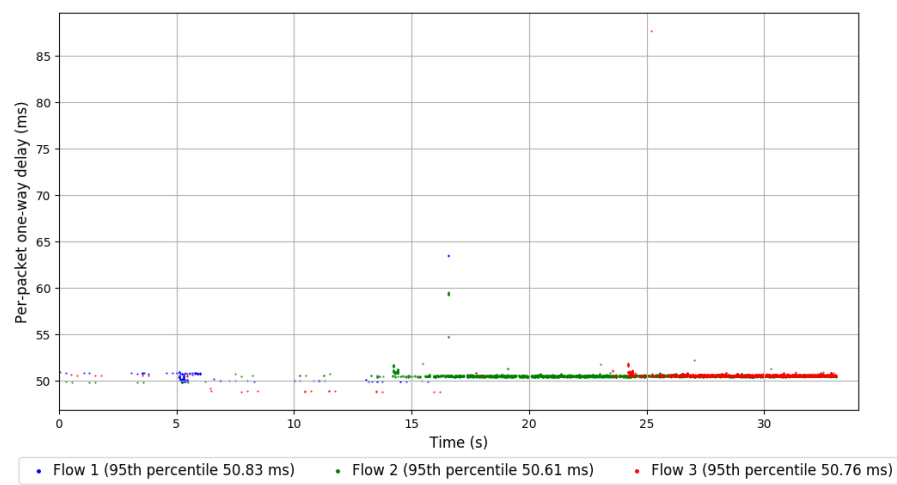
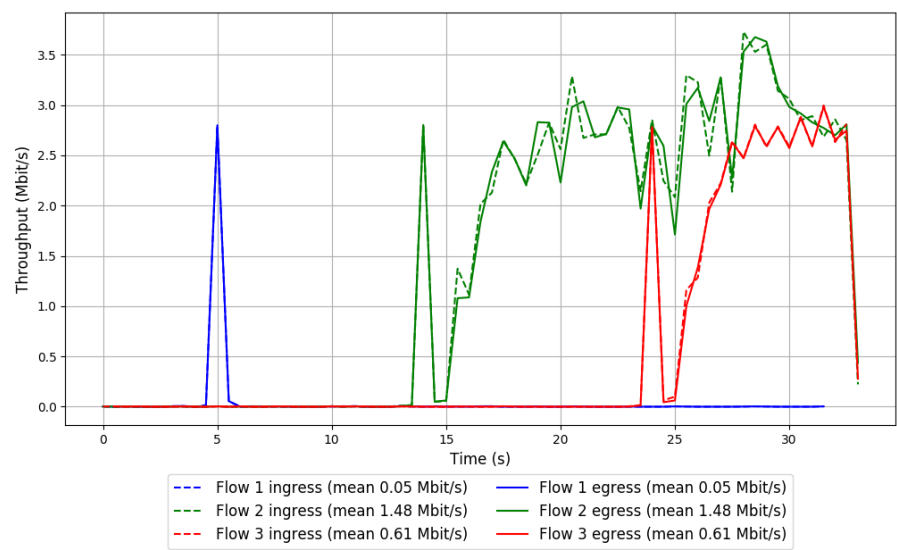


```
Run 1: Statistics of WebRTC media

Start at: 2017-11-17 01:41:38
End at: 2017-11-17 01:42:08

# Below is generated by plot.py at 2017-11-17 05:26:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 50.685 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 50.832 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: 50.606 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 50.764 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-11-17 01:53:44

End at: 2017-11-17 01:54:14

Below is generated by plot.py at 2017-11-17 05:26:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 50.911 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 50.933 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 50.602 ms

Loss rate: 0.00%

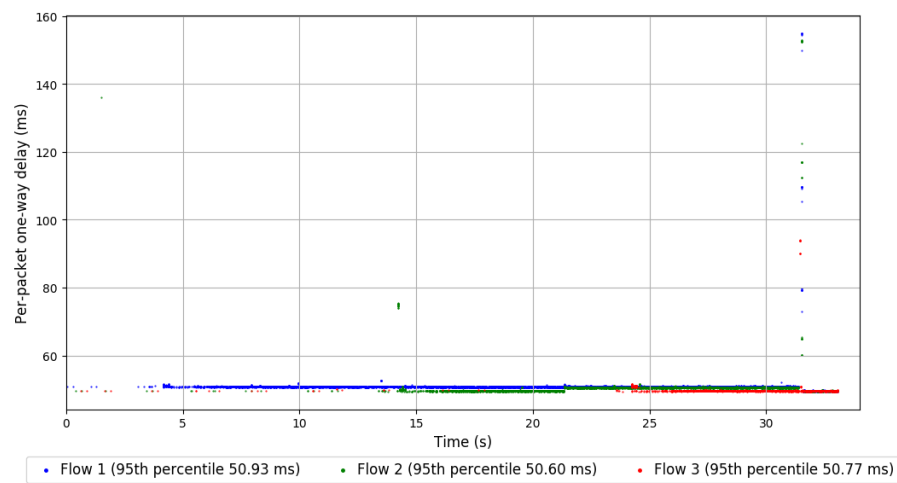
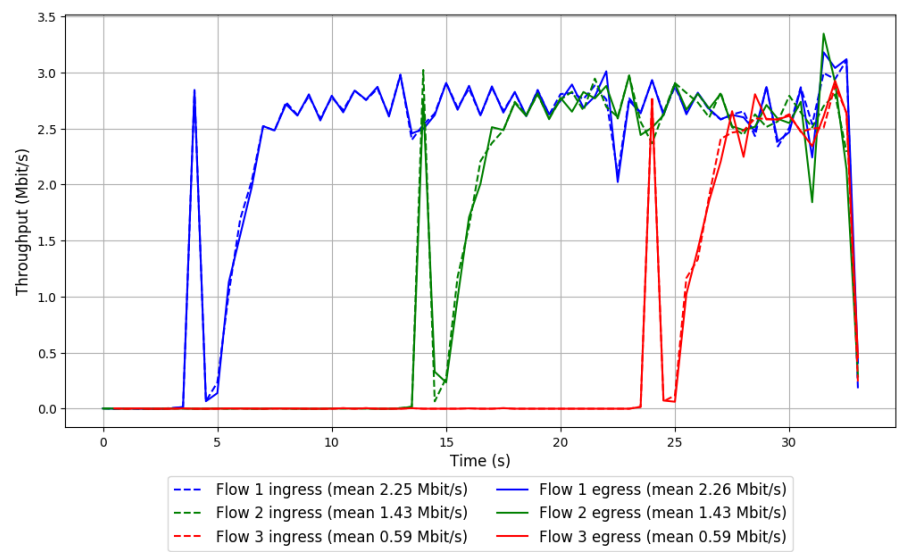
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 50.765 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-17 02:05:48

End at: 2017-11-17 02:06:18

Below is generated by plot.py at 2017-11-17 05:26:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 50.957 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 50.964 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 50.891 ms

Loss rate: 0.00%

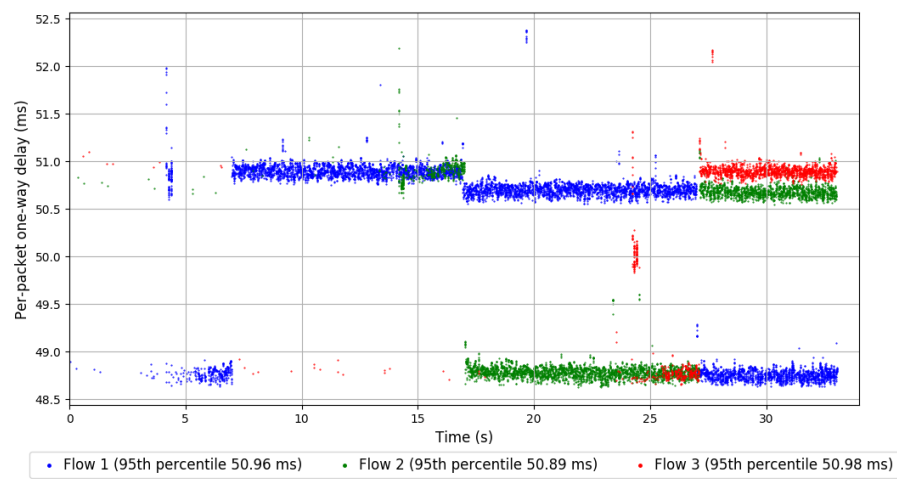
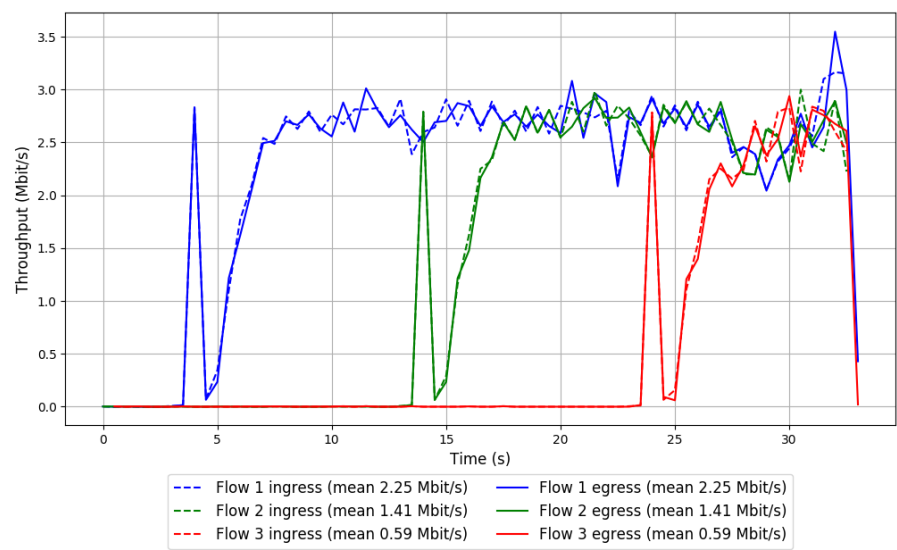
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 50.977 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-17 02:17:47

End at: 2017-11-17 02:18:17

Below is generated by plot.py at 2017-11-17 05:26:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.18 Mbit/s

95th percentile per-packet one-way delay: 50.973 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 50.982 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 50.783 ms

Loss rate: 0.00%

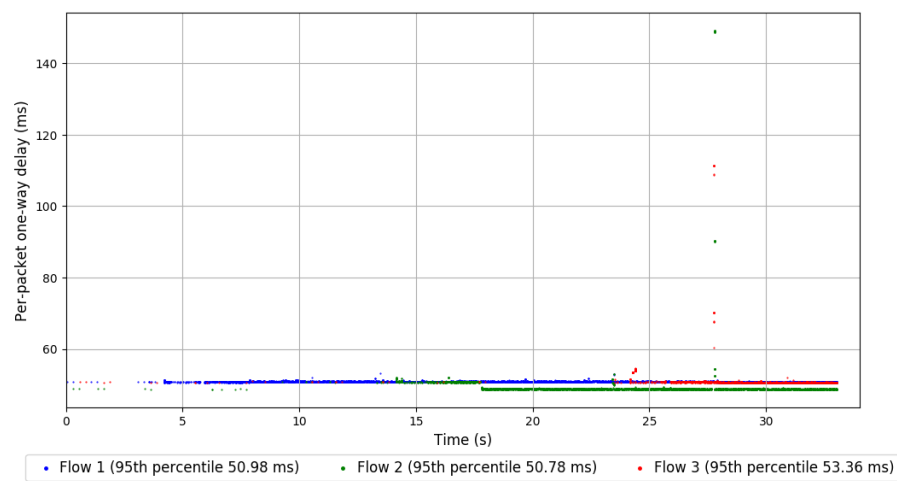
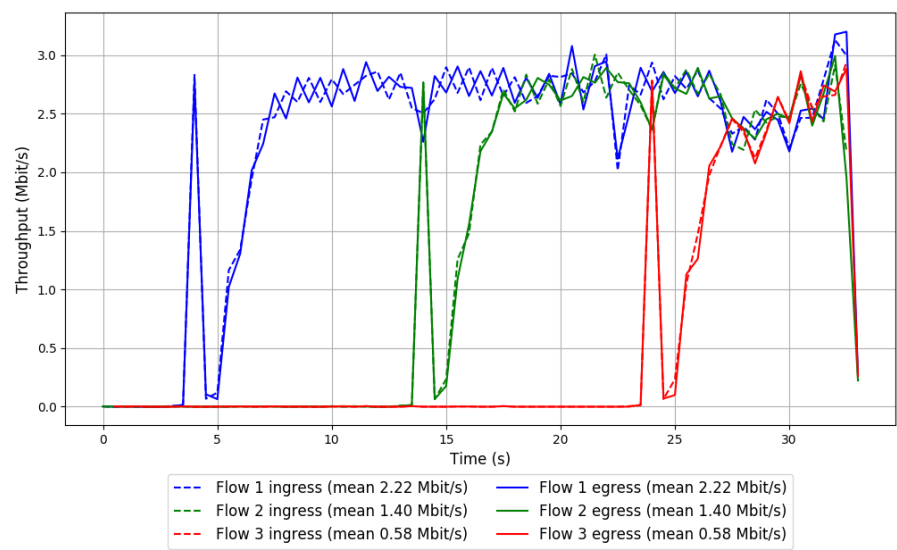
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 53.362 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-17 02:29:59

End at: 2017-11-17 02:30:29

Below is generated by plot.py at 2017-11-17 05:26:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.17 Mbit/s

95th percentile per-packet one-way delay: 50.971 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 50.838 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 51.035 ms

Loss rate: 0.00%

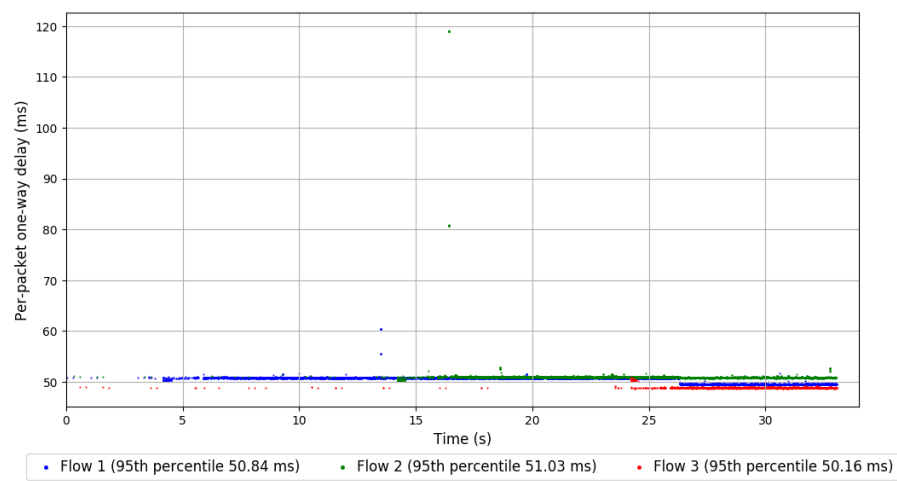
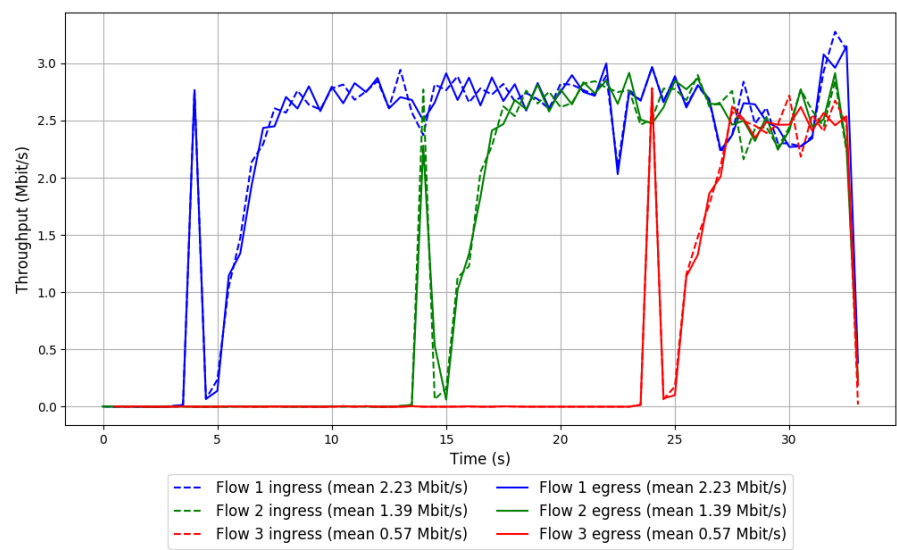
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 50.163 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-17 02:42:11

End at: 2017-11-17 02:42:41

Below is generated by plot.py at 2017-11-17 05:26:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 50.753 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 50.567 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 50.791 ms

Loss rate: 0.00%

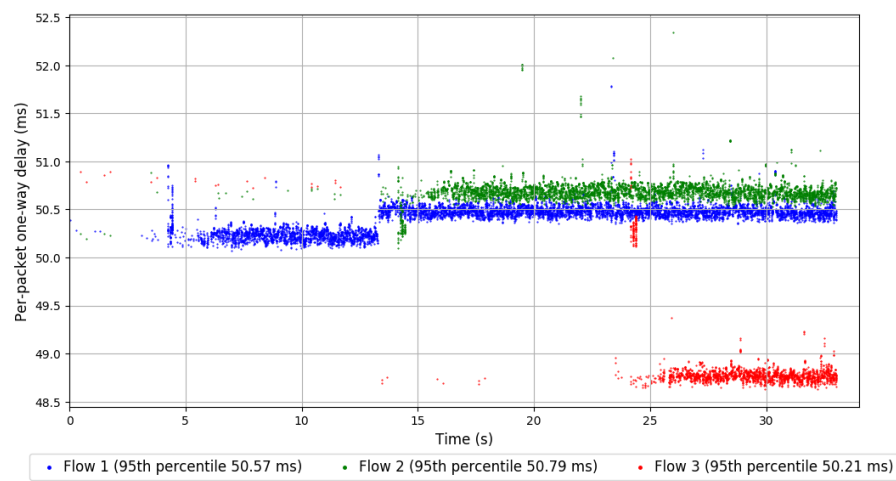
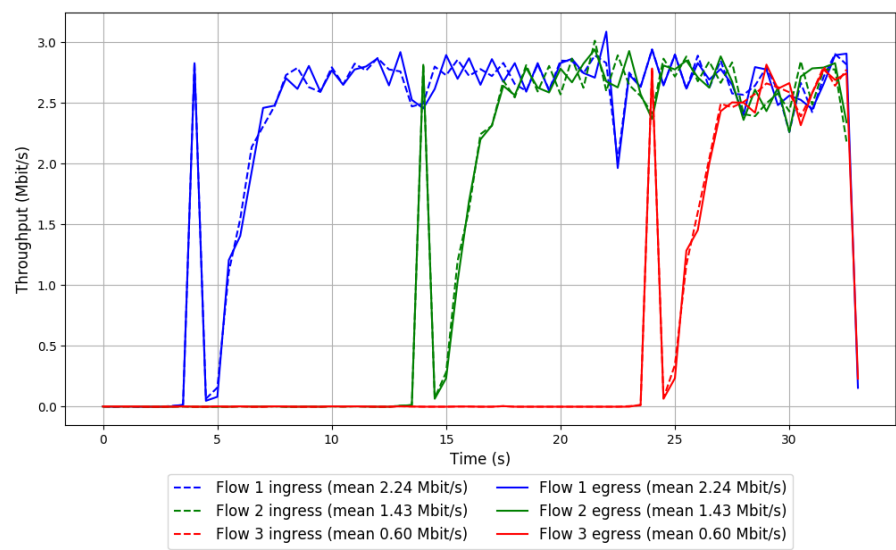
-- Flow 3:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 50.212 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-17 02:54:27

End at: 2017-11-17 02:54:57

Below is generated by plot.py at 2017-11-17 05:26:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.26 Mbit/s

95th percentile per-packet one-way delay: 50.296 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 49.877 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 50.316 ms

Loss rate: 0.00%

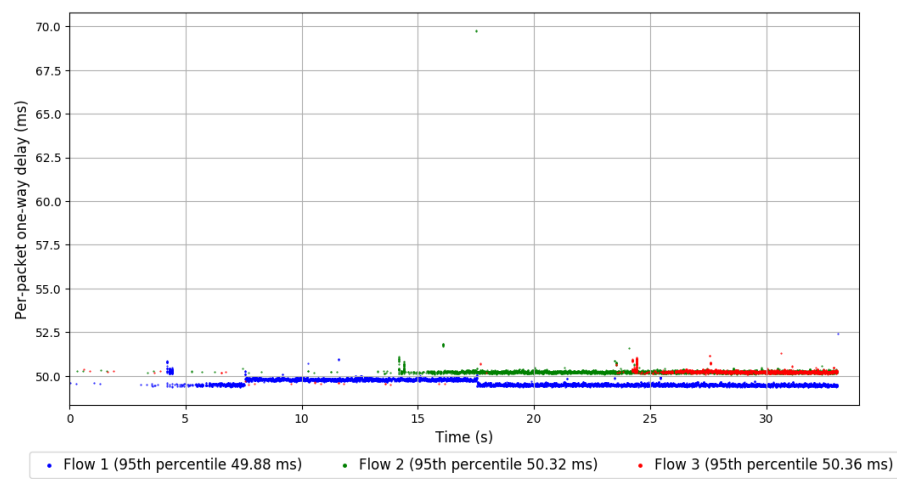
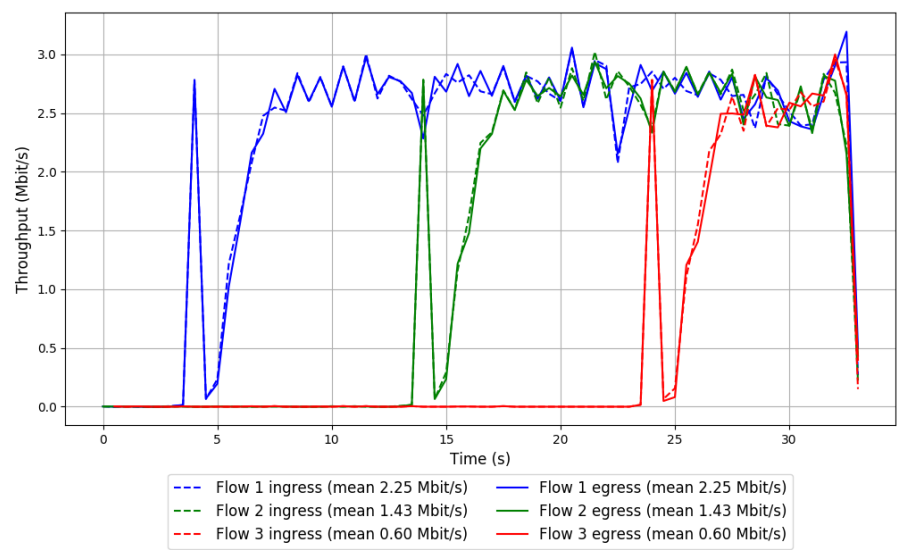
-- Flow 3:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 50.356 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-17 03:06:33

End at: 2017-11-17 03:07:03

Below is generated by plot.py at 2017-11-17 05:26:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.48 Mbit/s

95th percentile per-packet one-way delay: 50.653 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 50.340 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 50.691 ms

Loss rate: 0.00%

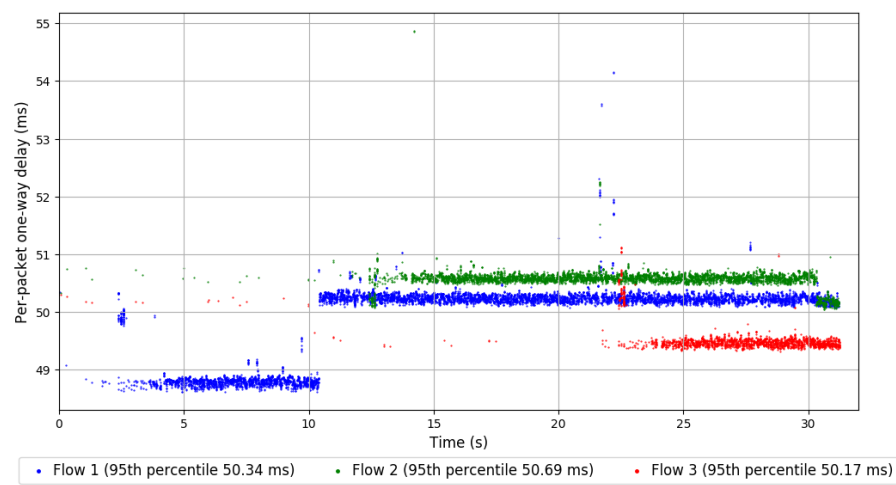
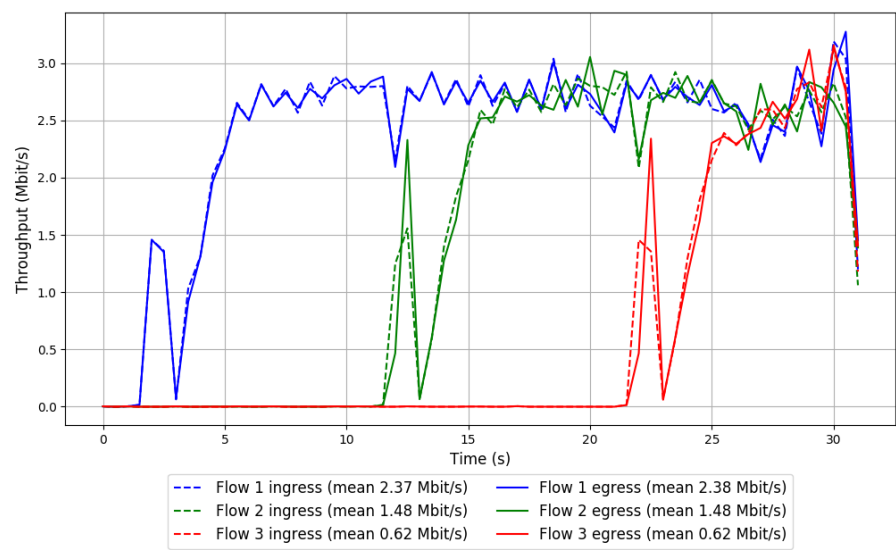
-- Flow 3:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 50.173 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-17 03:18:38

End at: 2017-11-17 03:19:08

Below is generated by plot.py at 2017-11-17 05:26:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 50.352 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 50.516 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 50.364 ms

Loss rate: 0.00%

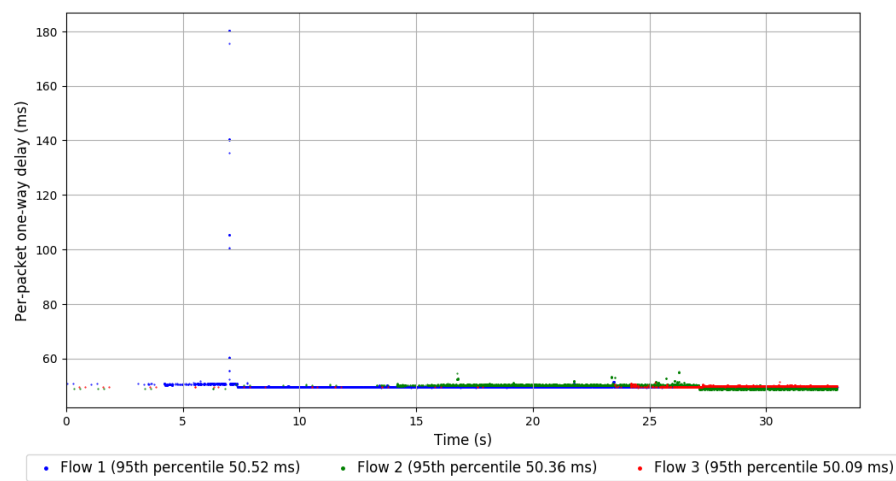
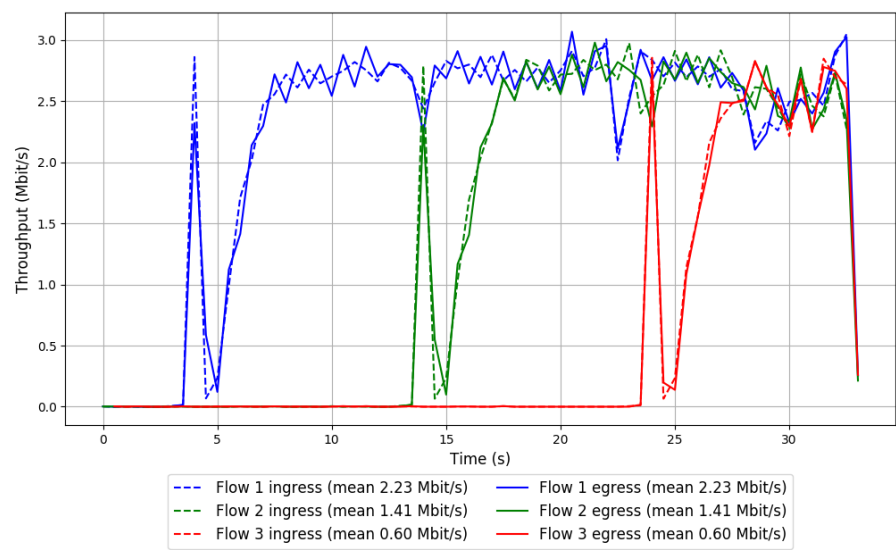
-- Flow 3:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 50.086 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-17 03:30:53

End at: 2017-11-17 03:31:23

Below is generated by plot.py at 2017-11-17 05:26:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 50.510 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 50.530 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 50.290 ms

Loss rate: 0.00%

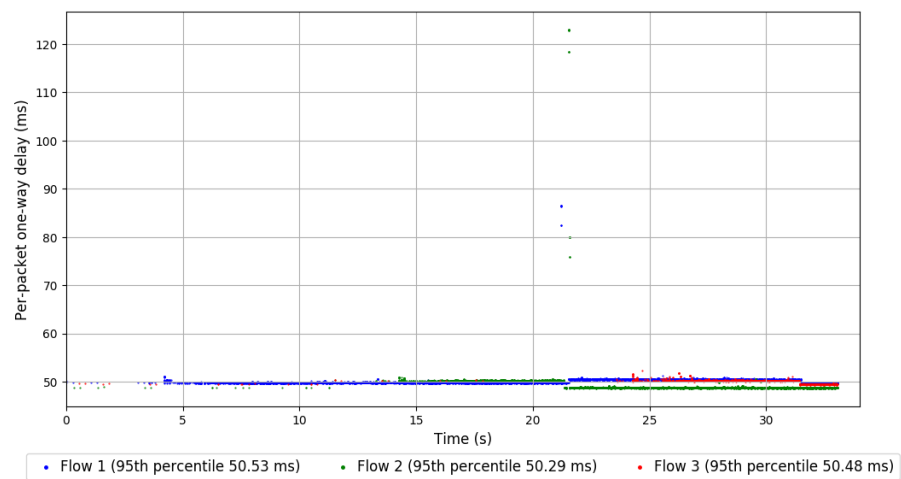
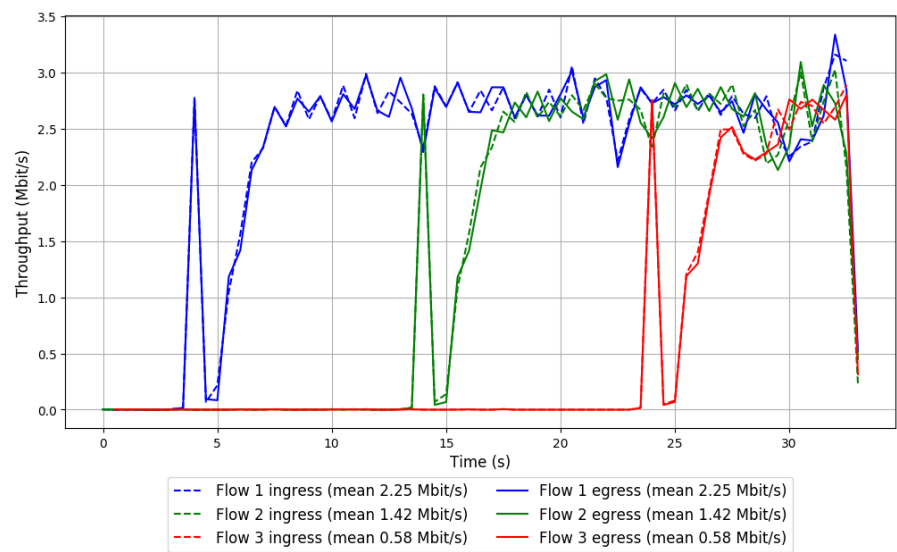
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 50.479 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

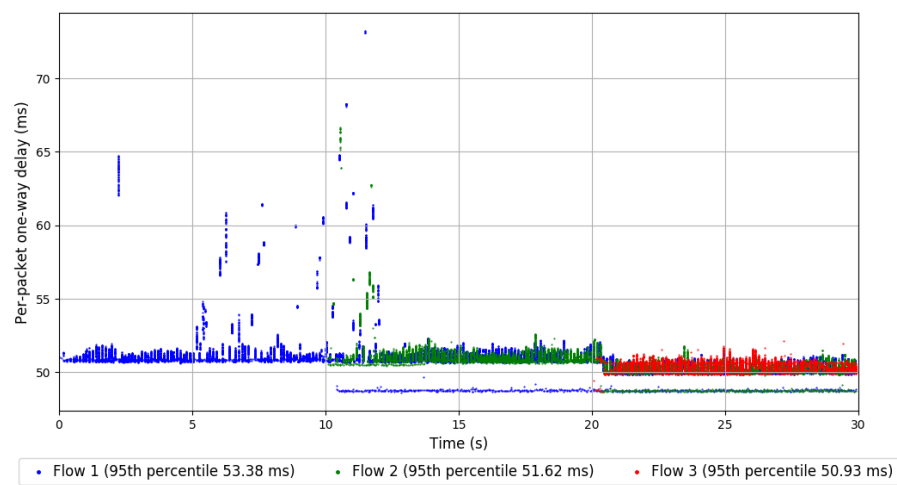
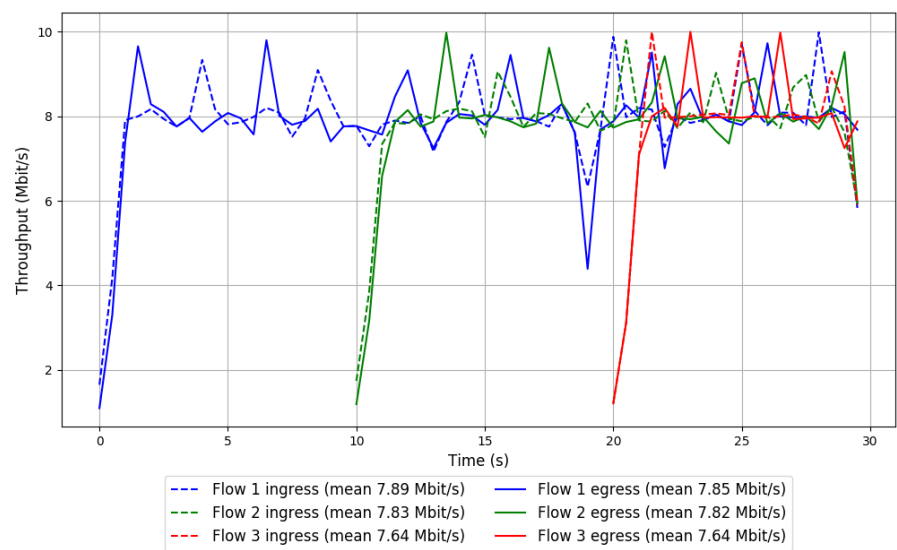


```
Run 1: Statistics of Sprout

Start at: 2017-11-17 01:49:41
End at: 2017-11-17 01:50:11

# Below is generated by plot.py at 2017-11-17 05:26:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.56 Mbit/s
95th percentile per-packet one-way delay: 51.895 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 7.85 Mbit/s
95th percentile per-packet one-way delay: 53.383 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 7.82 Mbit/s
95th percentile per-packet one-way delay: 51.616 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 7.64 Mbit/s
95th percentile per-packet one-way delay: 50.934 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-11-17 02:01:43

End at: 2017-11-17 02:02:13

Below is generated by plot.py at 2017-11-17 05:26:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.62 Mbit/s

95th percentile per-packet one-way delay: 51.732 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.98 Mbit/s

95th percentile per-packet one-way delay: 51.726 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 51.773 ms

Loss rate: 0.00%

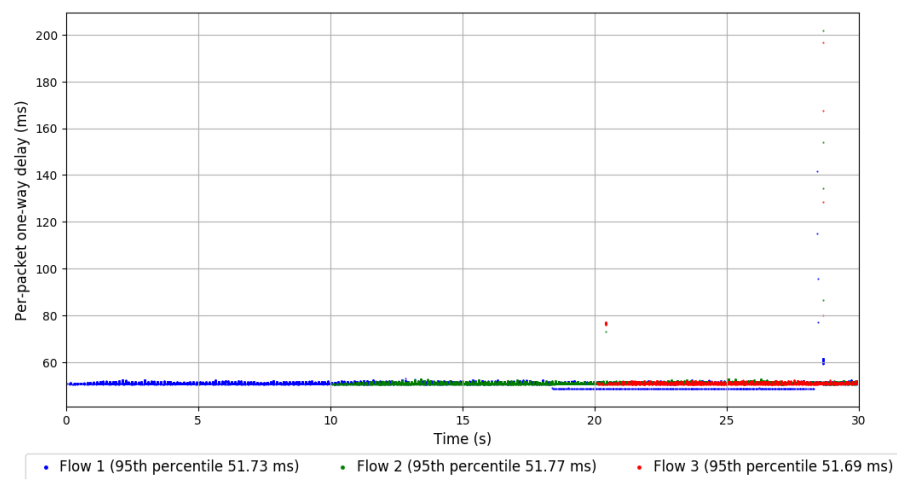
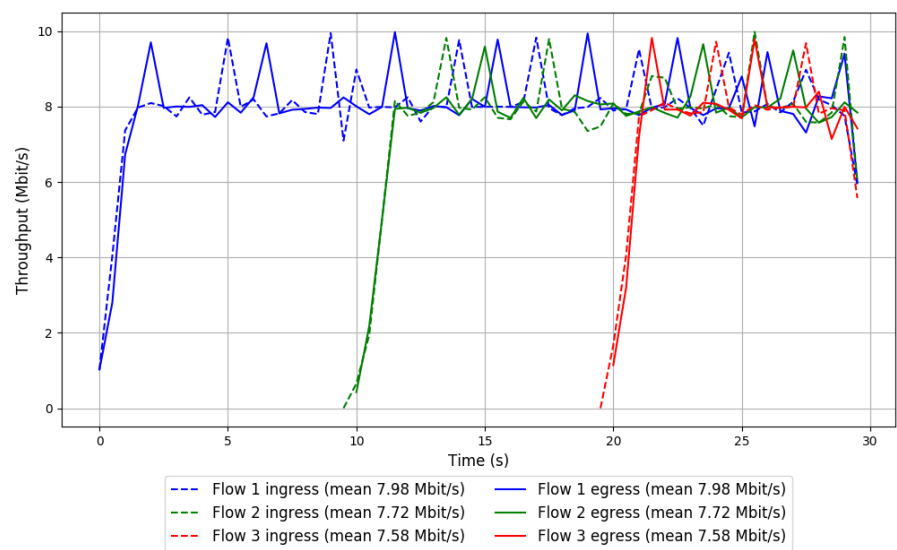
-- Flow 3:

Average throughput: 7.58 Mbit/s

95th percentile per-packet one-way delay: 51.686 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-11-17 02:13:46

End at: 2017-11-17 02:14:16

Below is generated by plot.py at 2017-11-17 05:26:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.57 Mbit/s

95th percentile per-packet one-way delay: 51.745 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 51.669 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 51.808 ms

Loss rate: 0.24%

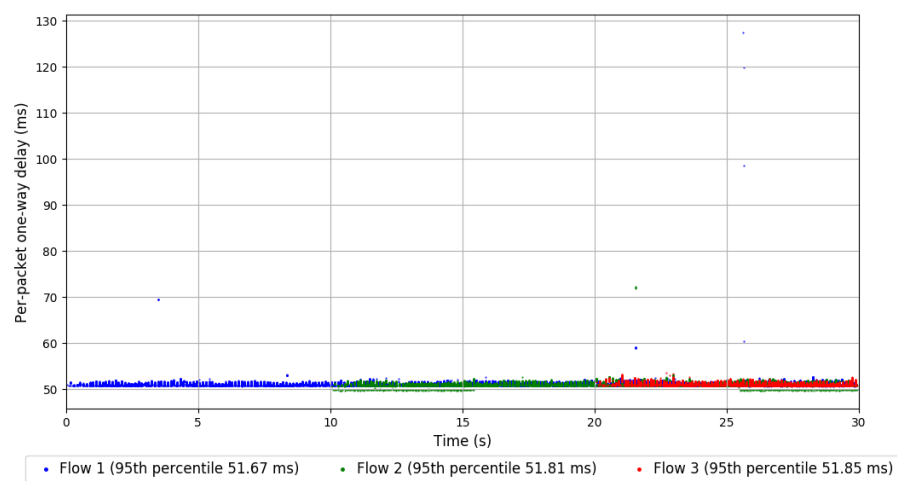
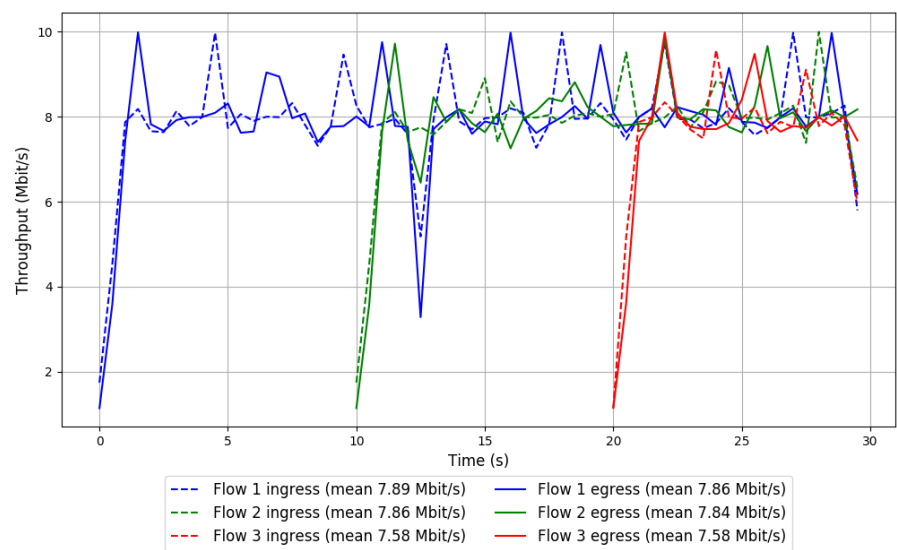
-- Flow 3:

Average throughput: 7.58 Mbit/s

95th percentile per-packet one-way delay: 51.851 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-17 02:25:54

End at: 2017-11-17 02:26:24

Below is generated by plot.py at 2017-11-17 05:26:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.53 Mbit/s

95th percentile per-packet one-way delay: 51.649 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 51.542 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 51.814 ms

Loss rate: 0.02%

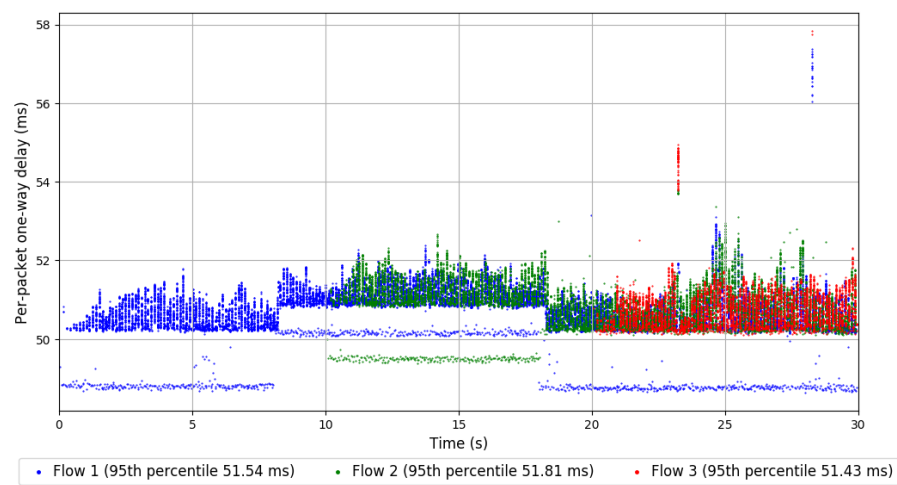
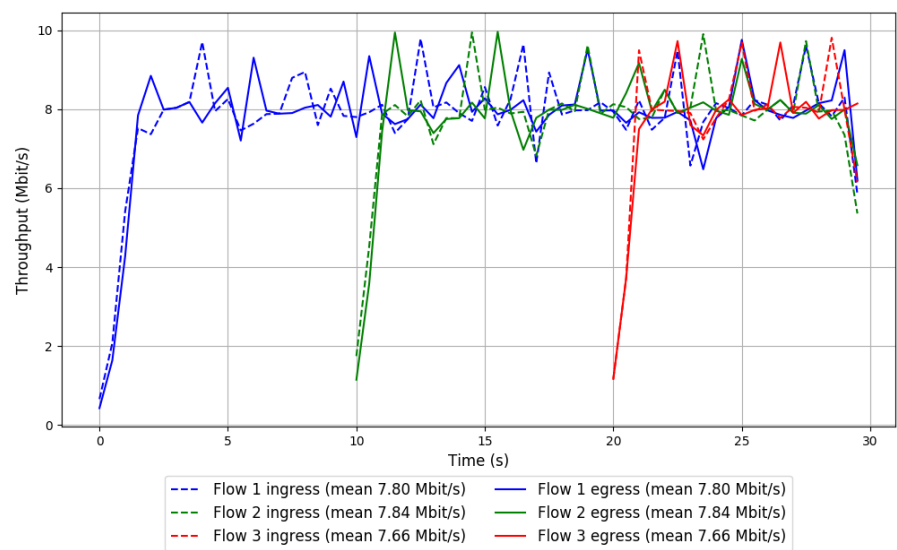
-- Flow 3:

Average throughput: 7.66 Mbit/s

95th percentile per-packet one-way delay: 51.426 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-17 02:38:09

End at: 2017-11-17 02:38:39

Below is generated by plot.py at 2017-11-17 05:26:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.73 Mbit/s

95th percentile per-packet one-way delay: 51.695 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 8.03 Mbit/s

95th percentile per-packet one-way delay: 51.617 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 51.736 ms

Loss rate: 0.00%

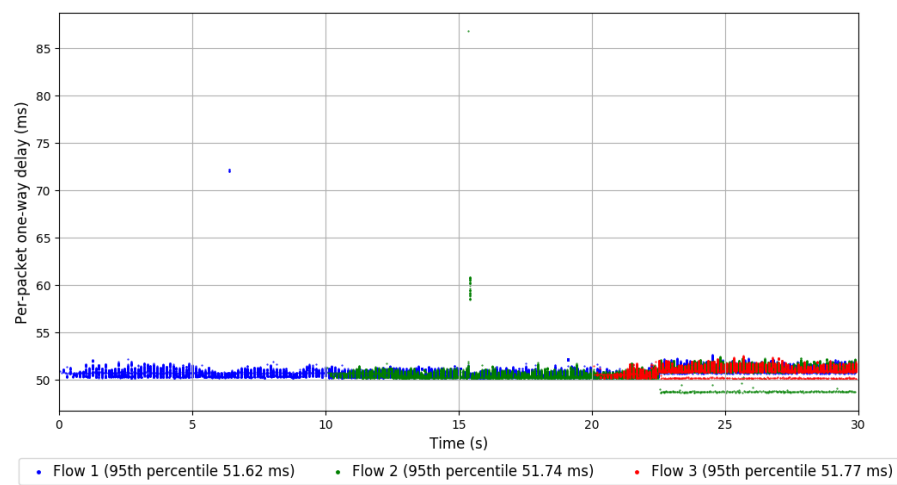
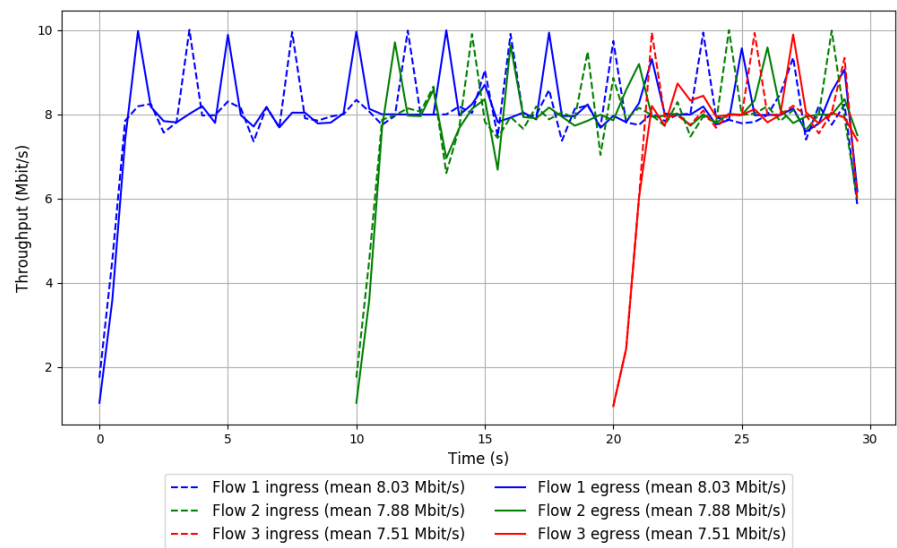
-- Flow 3:

Average throughput: 7.51 Mbit/s

95th percentile per-packet one-way delay: 51.774 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-11-17 02:50:25

End at: 2017-11-17 02:50:55

Below is generated by plot.py at 2017-11-17 05:26:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.58 Mbit/s

95th percentile per-packet one-way delay: 53.526 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 53.023 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 54.082 ms

Loss rate: 0.00%

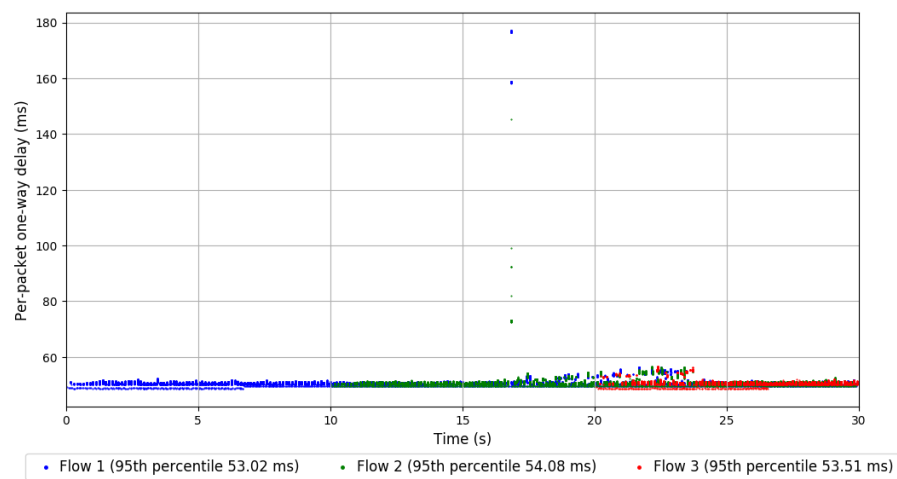
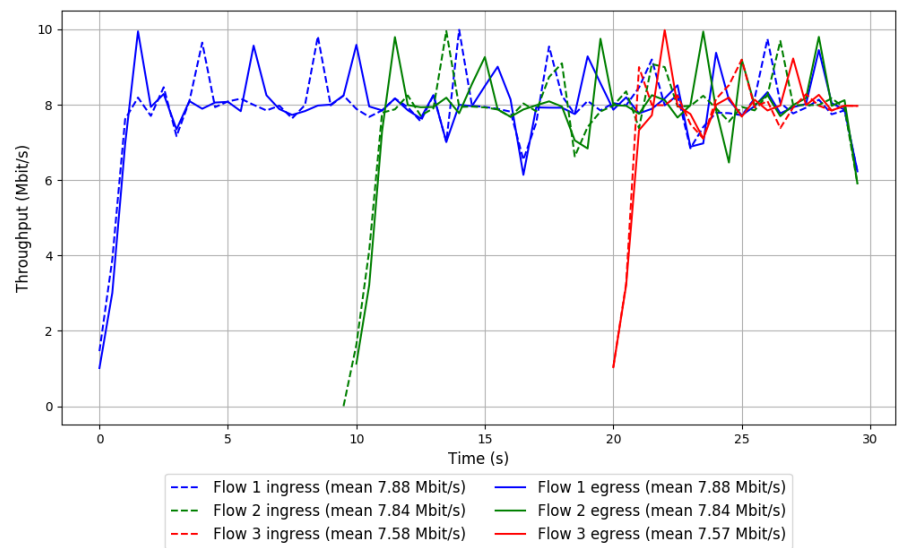
-- Flow 3:

Average throughput: 7.57 Mbit/s

95th percentile per-packet one-way delay: 53.505 ms

Loss rate: 0.10%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-17 03:02:29

End at: 2017-11-17 03:02:59

Below is generated by plot.py at 2017-11-17 05:26:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.65 Mbit/s

95th percentile per-packet one-way delay: 51.050 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 51.037 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 51.046 ms

Loss rate: 0.08%

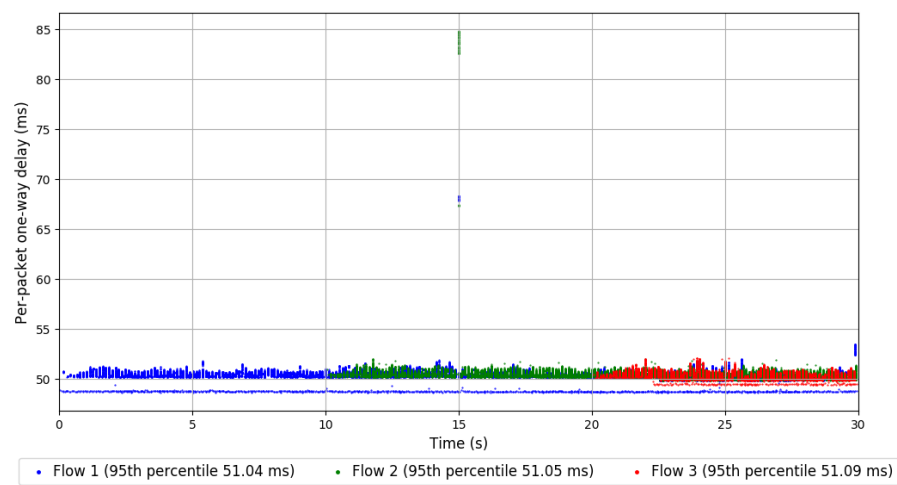
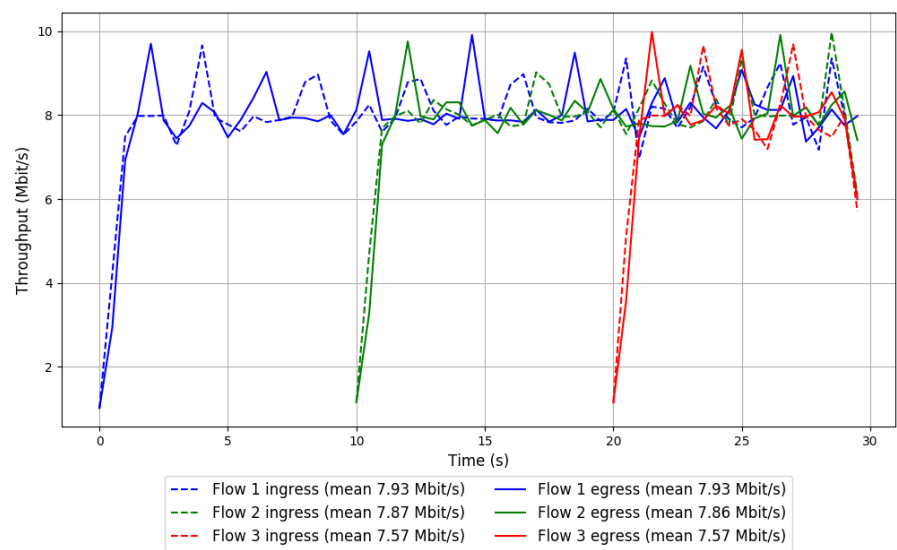
-- Flow 3:

Average throughput: 7.57 Mbit/s

95th percentile per-packet one-way delay: 51.093 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-17 03:14:34

End at: 2017-11-17 03:15:04

Below is generated by plot.py at 2017-11-17 05:26:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.61 Mbit/s

95th percentile per-packet one-way delay: 51.215 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 51.211 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 51.199 ms

Loss rate: 0.00%

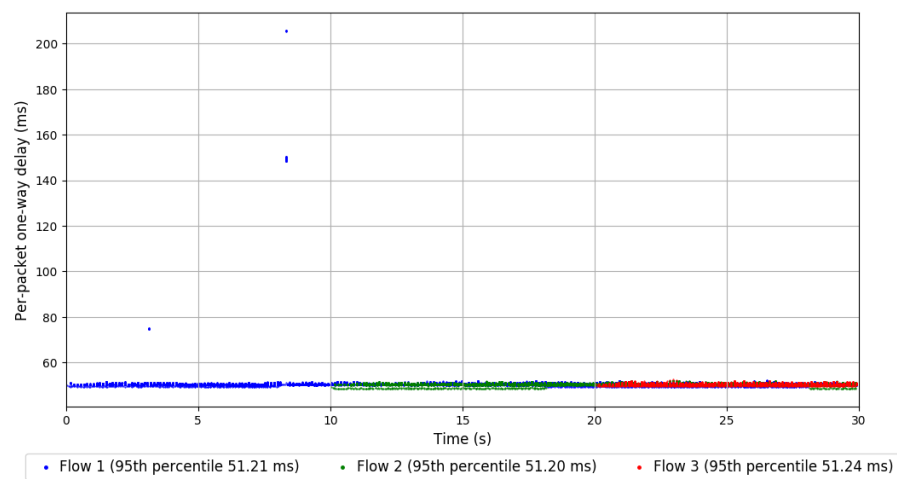
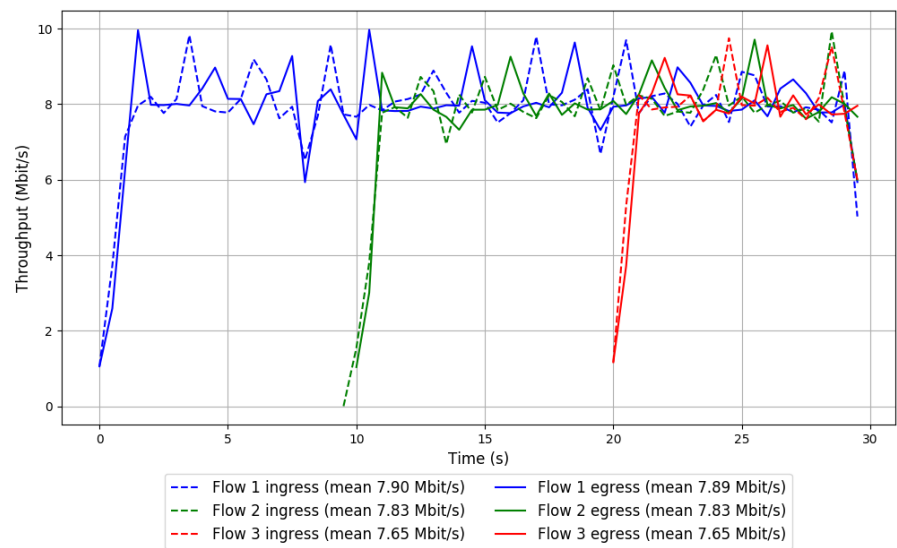
-- Flow 3:

Average throughput: 7.65 Mbit/s

95th percentile per-packet one-way delay: 51.245 ms

Loss rate: 0.03%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-17 03:26:50

End at: 2017-11-17 03:27:20

Below is generated by plot.py at 2017-11-17 05:26:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.59 Mbit/s

95th percentile per-packet one-way delay: 51.297 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 51.227 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 51.224 ms

Loss rate: 0.00%

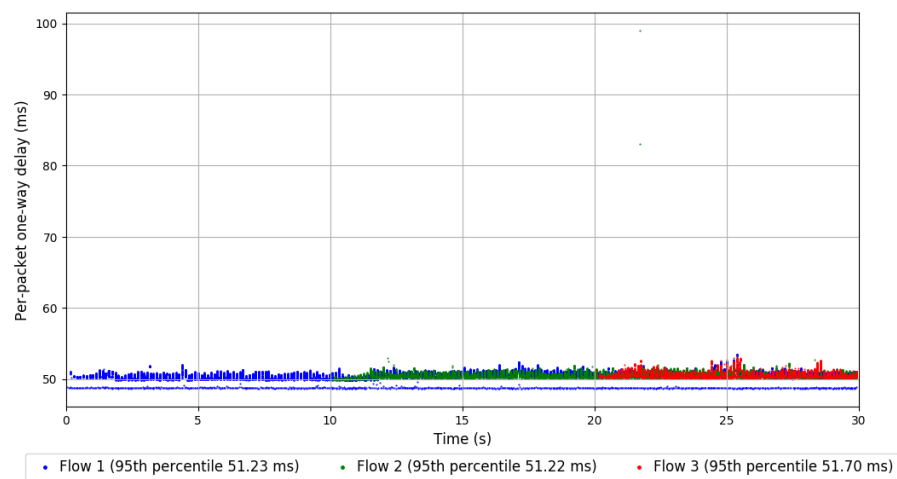
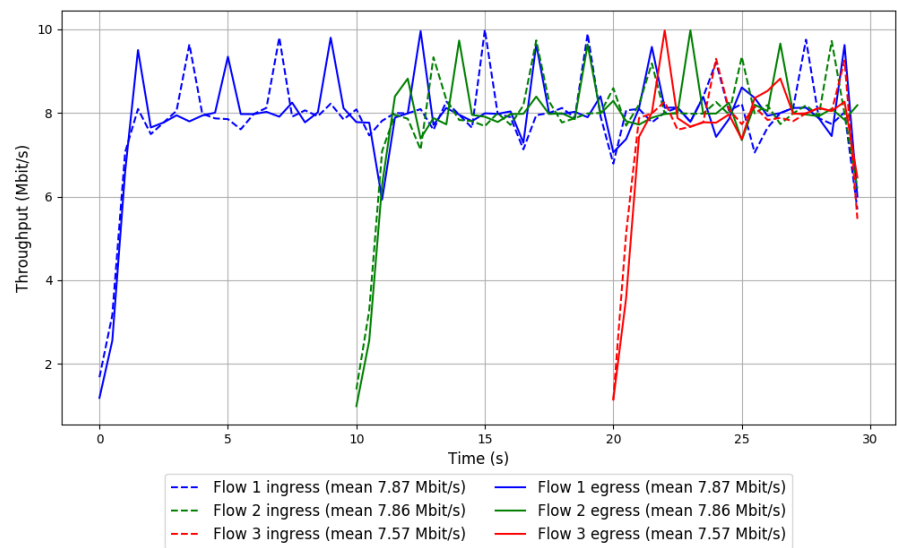
-- Flow 3:

Average throughput: 7.57 Mbit/s

95th percentile per-packet one-way delay: 51.699 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-17 03:38:54

End at: 2017-11-17 03:39:24

Below is generated by plot.py at 2017-11-17 05:26:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.67 Mbit/s

95th percentile per-packet one-way delay: 51.101 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 51.085 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 51.095 ms

Loss rate: 0.01%

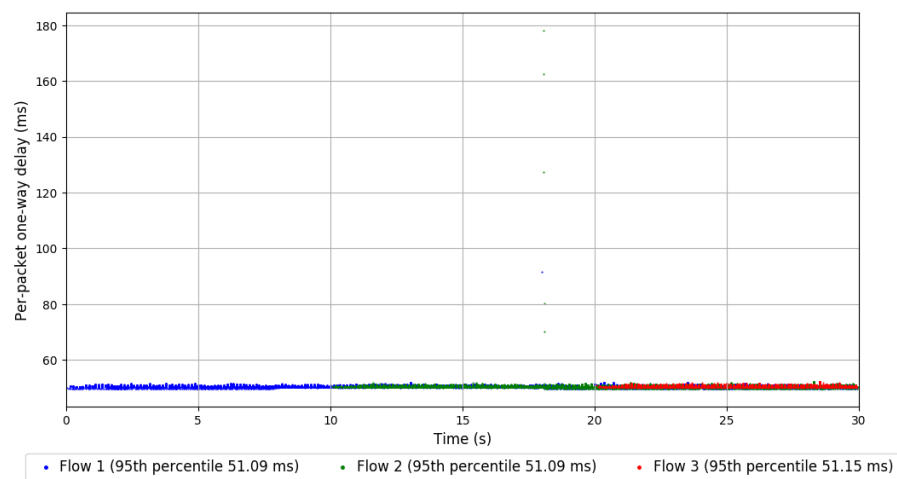
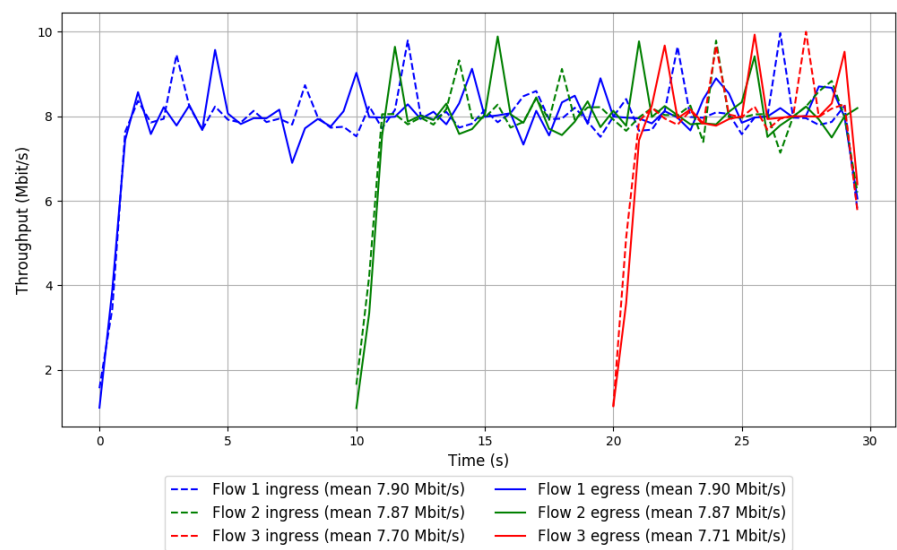
-- Flow 3:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 51.145 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

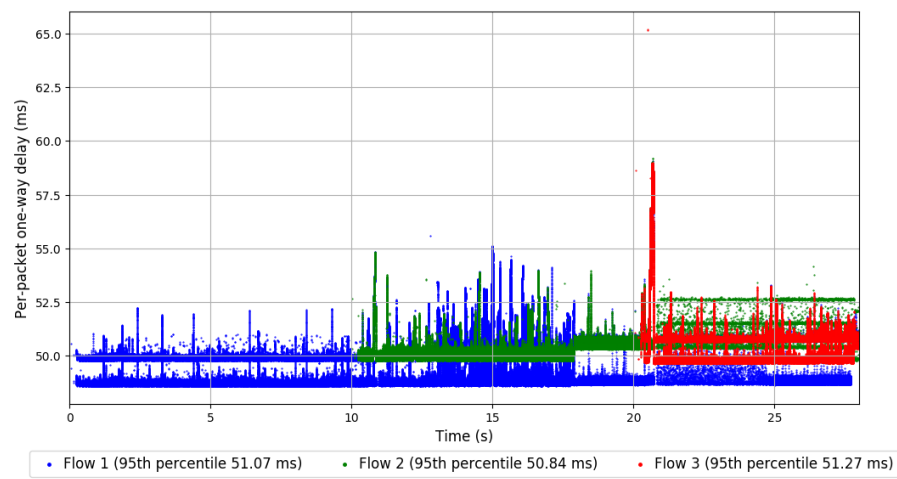
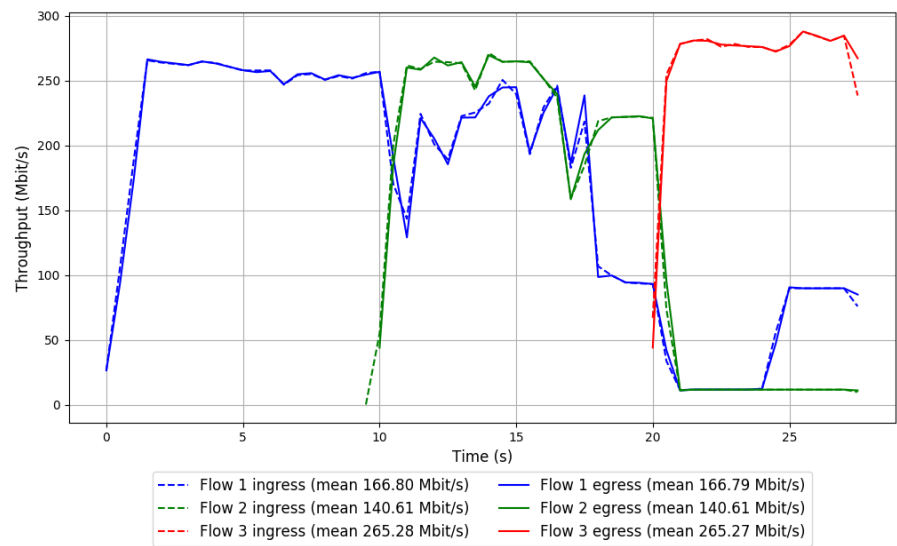


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-17 01:45:42
End at: 2017-11-17 01:46:12

# Below is generated by plot.py at 2017-11-17 05:32:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 332.31 Mbit/s
95th percentile per-packet one-way delay: 51.091 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 166.79 Mbit/s
95th percentile per-packet one-way delay: 51.067 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 140.61 Mbit/s
95th percentile per-packet one-way delay: 50.838 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 265.27 Mbit/s
95th percentile per-packet one-way delay: 51.271 ms
Loss rate: 0.00%
```


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

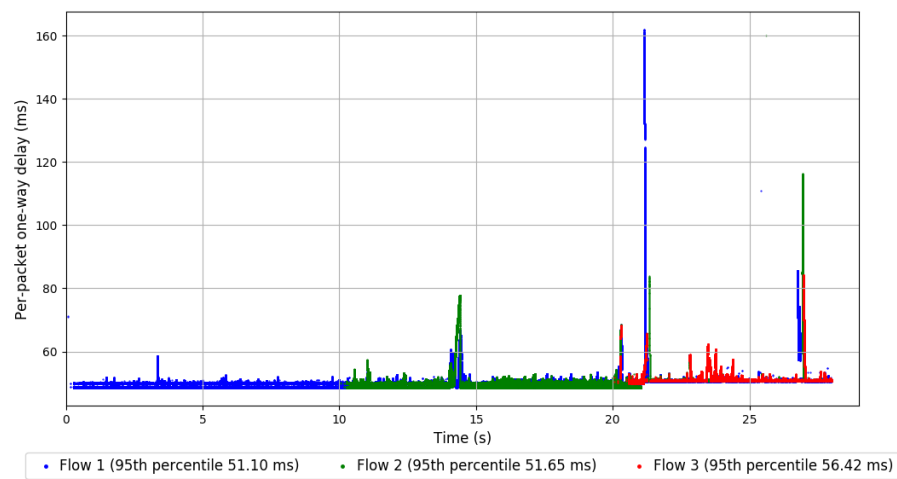
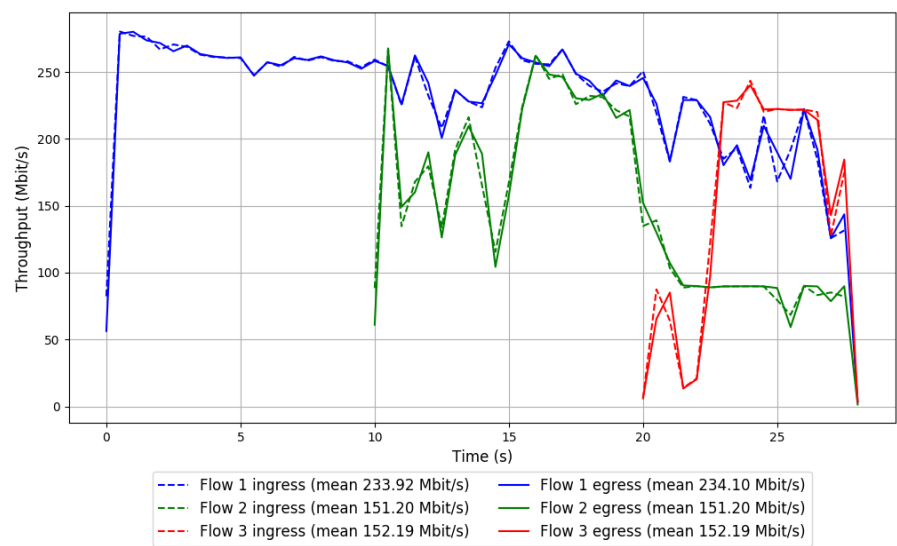


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-17 01:57:49
End at: 2017-11-17 01:58:19

# Below is generated by plot.py at 2017-11-17 05:33:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 374.48 Mbit/s
95th percentile per-packet one-way delay: 51.808 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 234.10 Mbit/s
95th percentile per-packet one-way delay: 51.105 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 151.20 Mbit/s
95th percentile per-packet one-way delay: 51.654 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 152.19 Mbit/s
95th percentile per-packet one-way delay: 56.423 ms
Loss rate: 0.00%
```

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

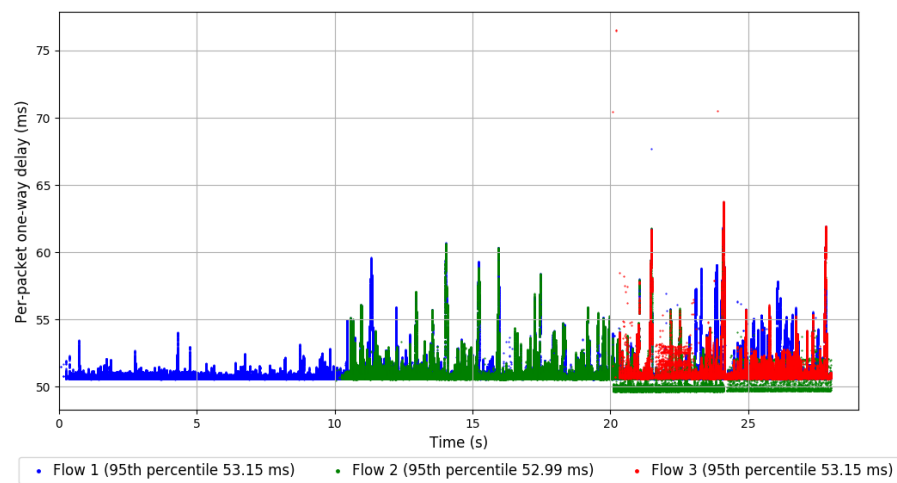
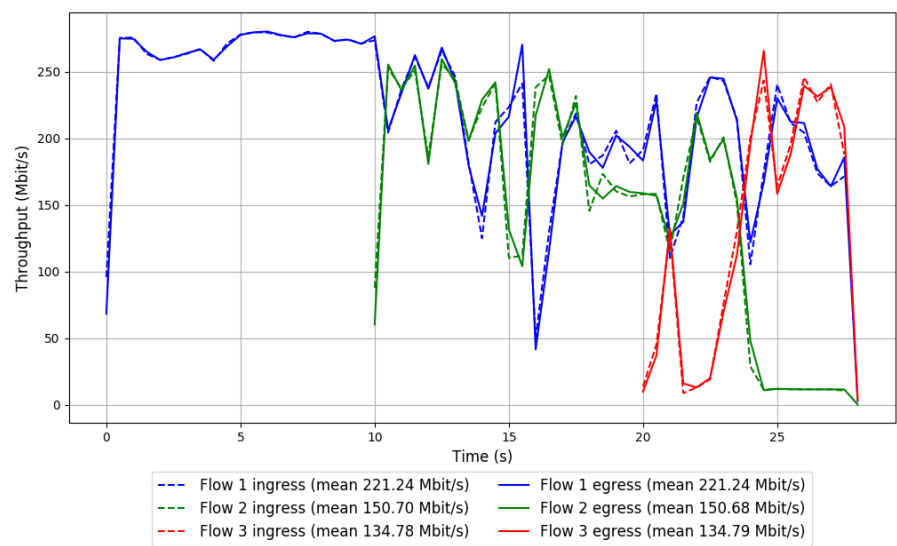


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-11-17 02:09:50
End at: 2017-11-17 02:10:20

# Below is generated by plot.py at 2017-11-17 05:33:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 356.24 Mbit/s
95th percentile per-packet one-way delay: 53.111 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 221.24 Mbit/s
95th percentile per-packet one-way delay: 53.152 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 150.68 Mbit/s
95th percentile per-packet one-way delay: 52.995 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 134.79 Mbit/s
95th percentile per-packet one-way delay: 53.151 ms
Loss rate: 0.00%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-11-17 02:21:59

End at: 2017-11-17 02:22:29

Below is generated by plot.py at 2017-11-17 05:33:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 348.96 Mbit/s

95th percentile per-packet one-way delay: 55.242 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 197.92 Mbit/s

95th percentile per-packet one-way delay: 55.577 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 167.73 Mbit/s

95th percentile per-packet one-way delay: 54.749 ms

Loss rate: 0.00%

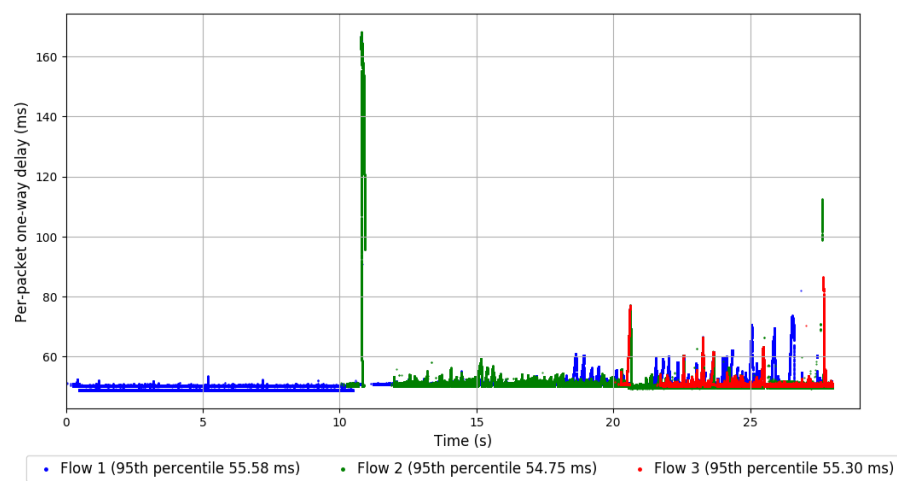
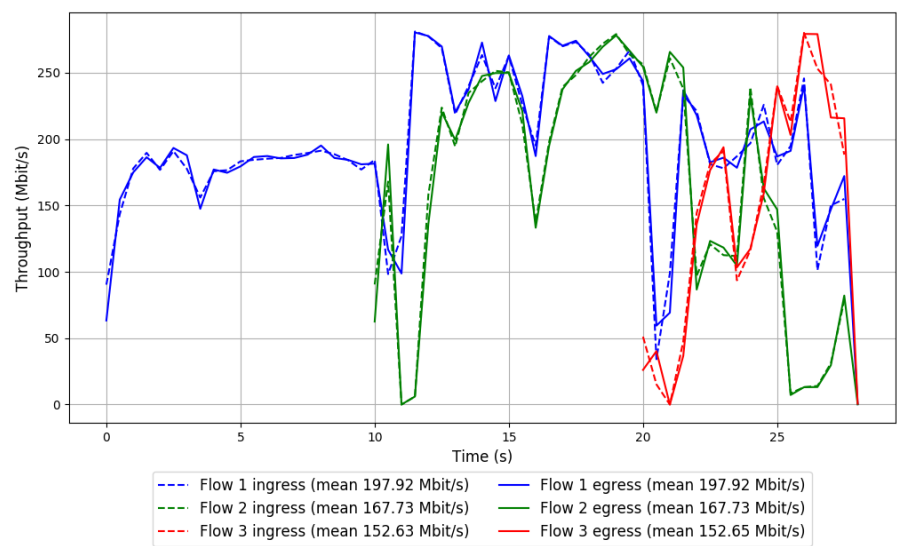
-- Flow 3:

Average throughput: 152.65 Mbit/s

95th percentile per-packet one-way delay: 55.305 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-11-17 02:34:09

End at: 2017-11-17 02:34:39

Below is generated by plot.py at 2017-11-17 05:33:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 378.17 Mbit/s

95th percentile per-packet one-way delay: 51.807 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 203.31 Mbit/s

95th percentile per-packet one-way delay: 50.995 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 223.43 Mbit/s

95th percentile per-packet one-way delay: 51.488 ms

Loss rate: 0.00%

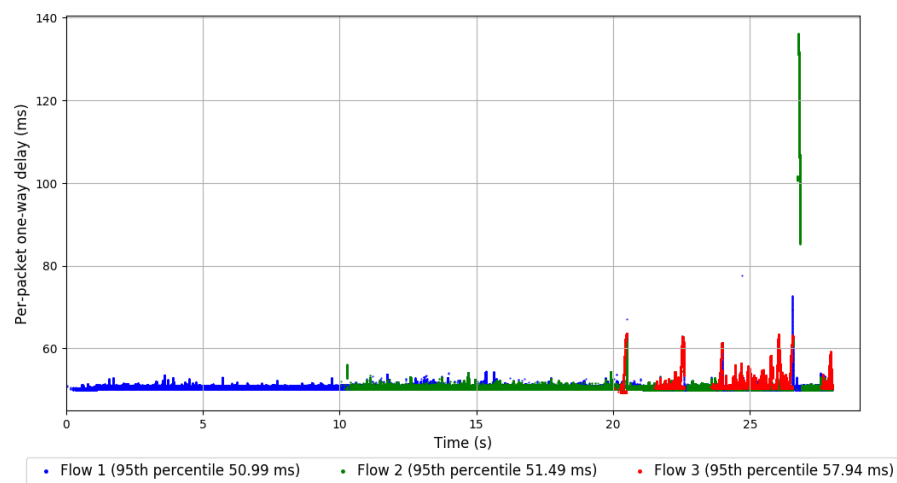
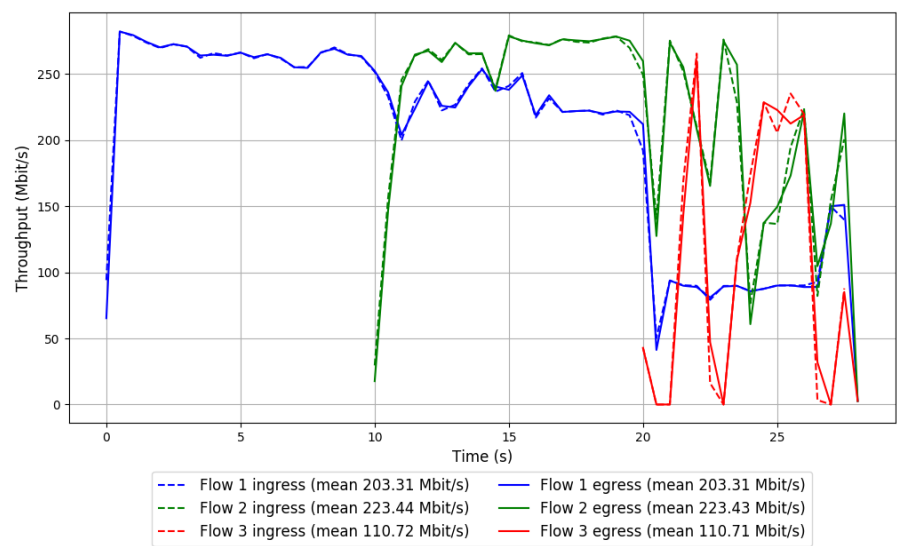
-- Flow 3:

Average throughput: 110.71 Mbit/s

95th percentile per-packet one-way delay: 57.937 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-17 02:46:26

End at: 2017-11-17 02:46:56

Below is generated by plot.py at 2017-11-17 05:33:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 374.66 Mbit/s

95th percentile per-packet one-way delay: 55.032 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 218.42 Mbit/s

95th percentile per-packet one-way delay: 53.367 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 195.91 Mbit/s

95th percentile per-packet one-way delay: 57.674 ms

Loss rate: 0.01%

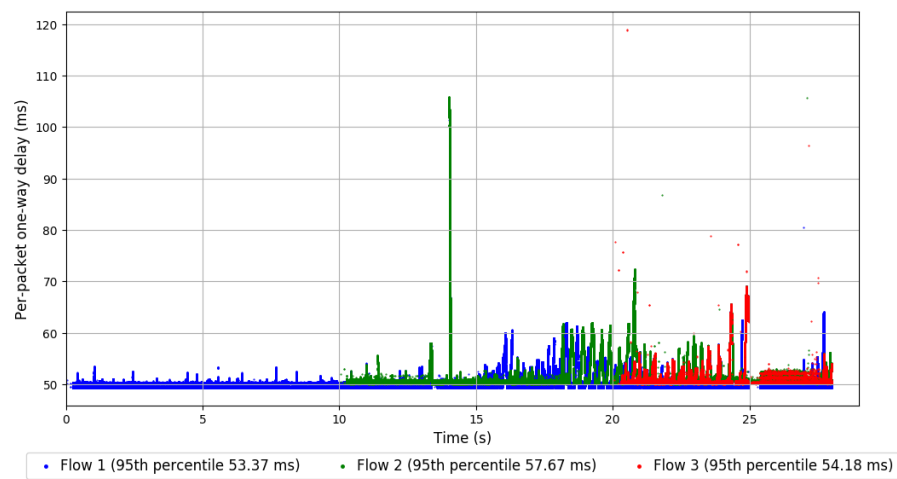
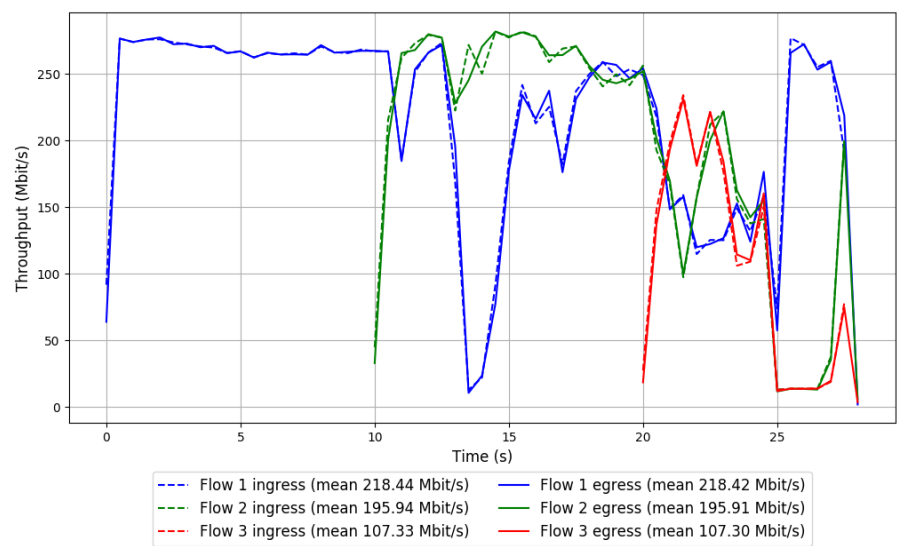
-- Flow 3:

Average throughput: 107.30 Mbit/s

95th percentile per-packet one-way delay: 54.182 ms

Loss rate: 0.02%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-11-17 02:58:31

End at: 2017-11-17 02:59:01

Below is generated by plot.py at 2017-11-17 05:39:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 407.36 Mbit/s

95th percentile per-packet one-way delay: 58.248 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 206.49 Mbit/s

95th percentile per-packet one-way delay: 57.337 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 223.55 Mbit/s

95th percentile per-packet one-way delay: 60.608 ms

Loss rate: 0.00%

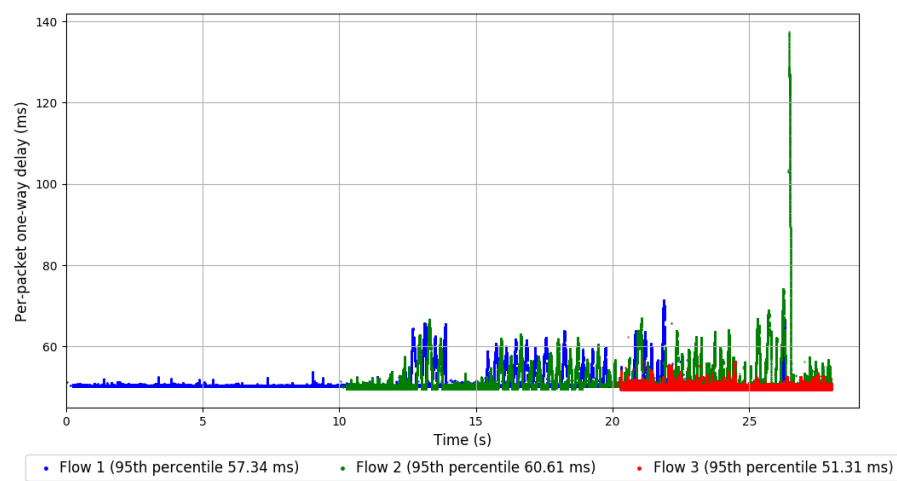
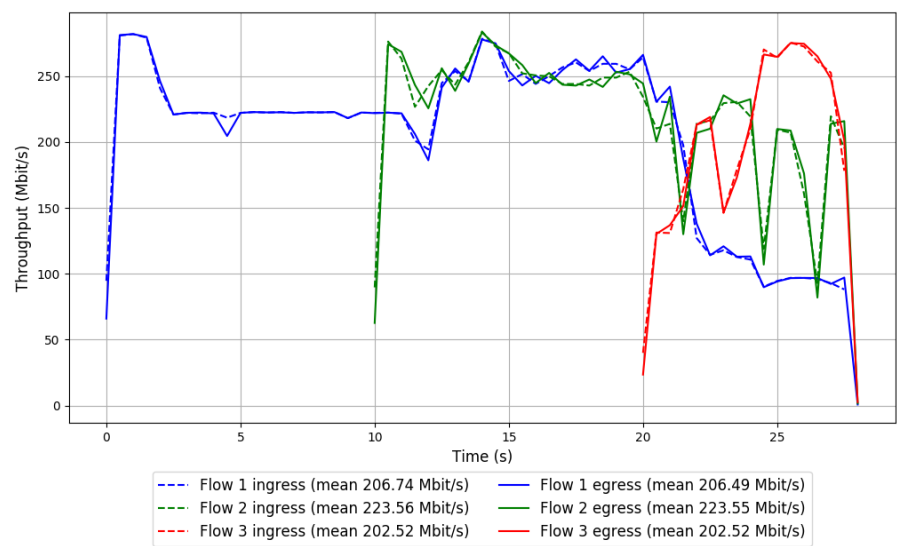
-- Flow 3:

Average throughput: 202.52 Mbit/s

95th percentile per-packet one-way delay: 51.310 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-17 03:10:40

End at: 2017-11-17 03:11:10

Below is generated by plot.py at 2017-11-17 05:39:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 307.97 Mbit/s

95th percentile per-packet one-way delay: 50.350 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 190.50 Mbit/s

95th percentile per-packet one-way delay: 50.339 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 171.85 Mbit/s

95th percentile per-packet one-way delay: 50.329 ms

Loss rate: 0.00%

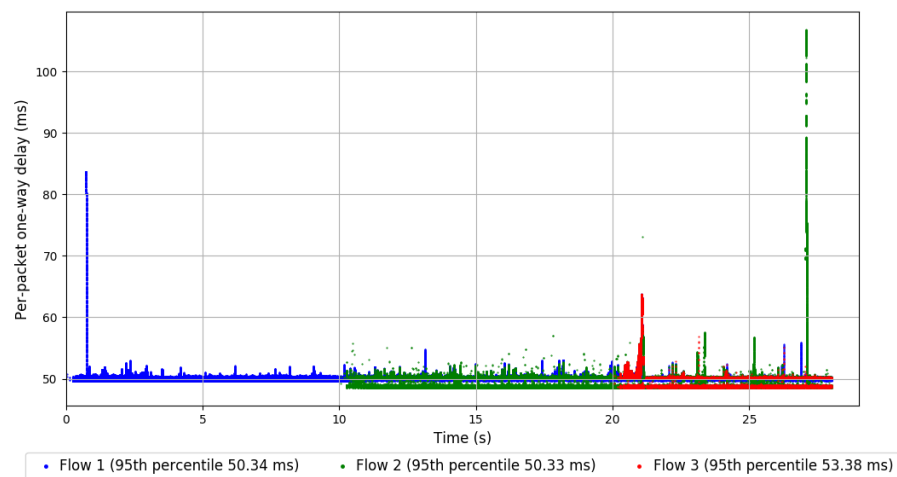
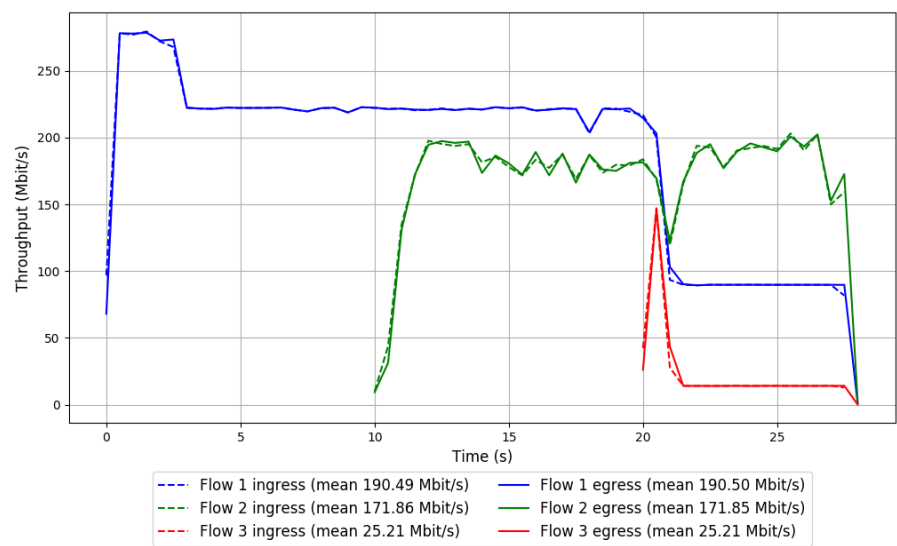
-- Flow 3:

Average throughput: 25.21 Mbit/s

95th percentile per-packet one-way delay: 53.383 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-11-17 03:22:51

End at: 2017-11-17 03:23:21

Below is generated by plot.py at 2017-11-17 05:42:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 365.36 Mbit/s

95th percentile per-packet one-way delay: 54.530 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 214.69 Mbit/s

95th percentile per-packet one-way delay: 53.333 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 176.42 Mbit/s

95th percentile per-packet one-way delay: 57.430 ms

Loss rate: 0.00%

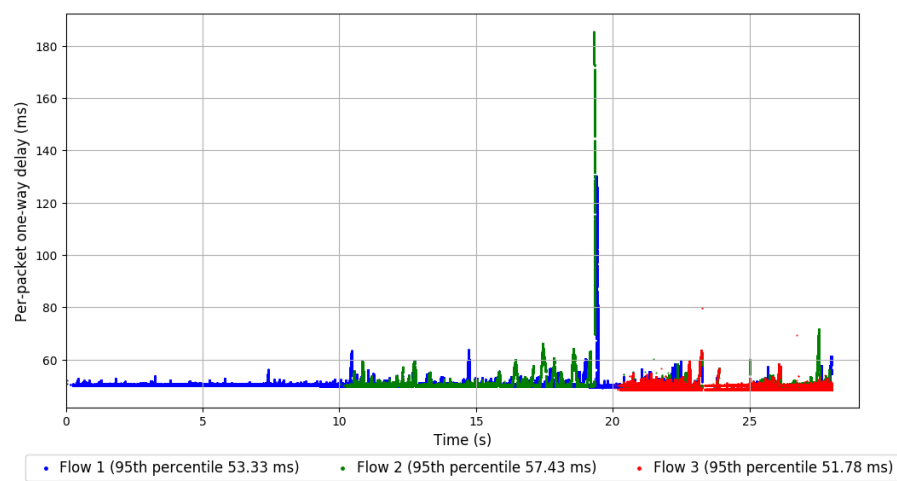
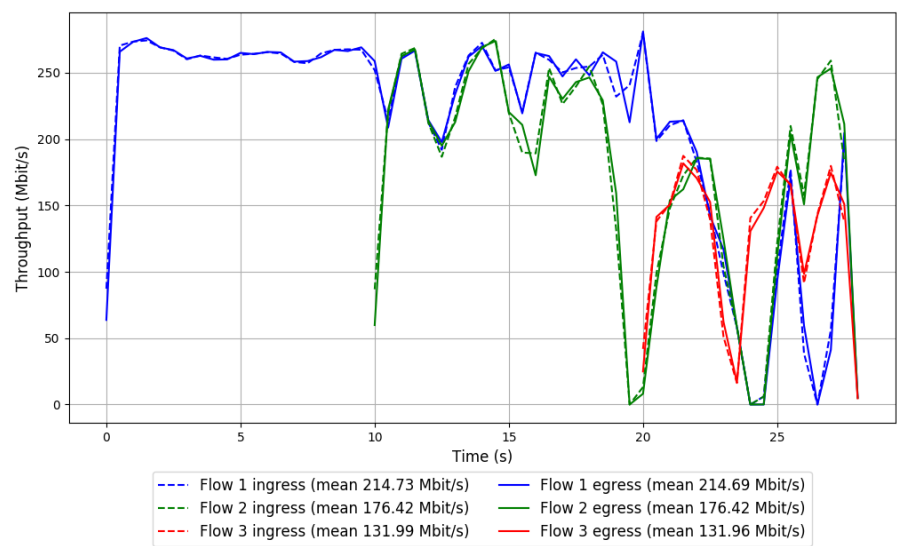
-- Flow 3:

Average throughput: 131.96 Mbit/s

95th percentile per-packet one-way delay: 51.777 ms

Loss rate: 0.01%

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

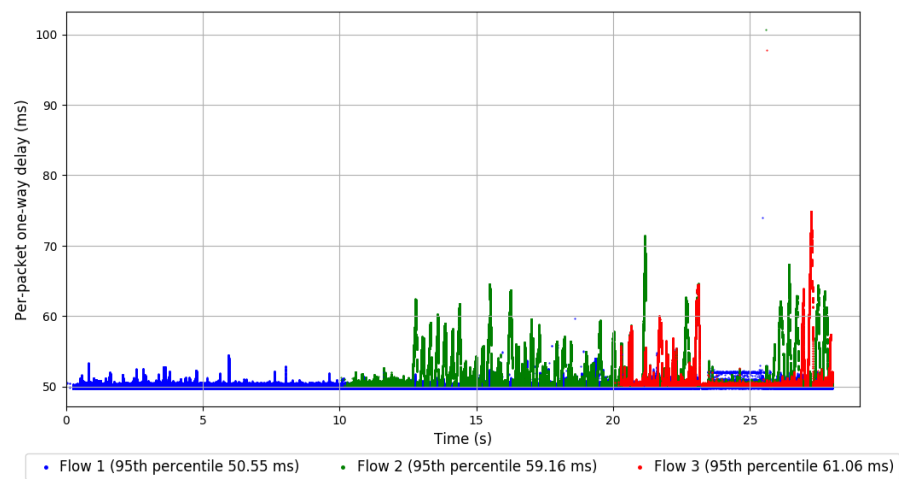
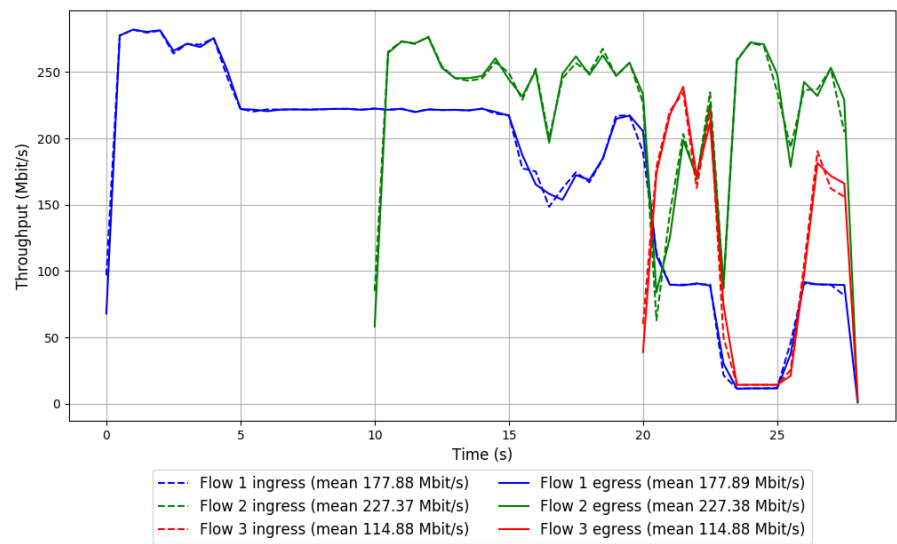


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-11-17 03:35:01
End at: 2017-11-17 03:35:31

# Below is generated by plot.py at 2017-11-17 05:42:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 356.42 Mbit/s
95th percentile per-packet one-way delay: 56.569 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 177.89 Mbit/s
95th percentile per-packet one-way delay: 50.549 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 227.38 Mbit/s
95th percentile per-packet one-way delay: 59.163 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 114.88 Mbit/s
95th percentile per-packet one-way delay: 61.065 ms
Loss rate: 0.00%
```

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

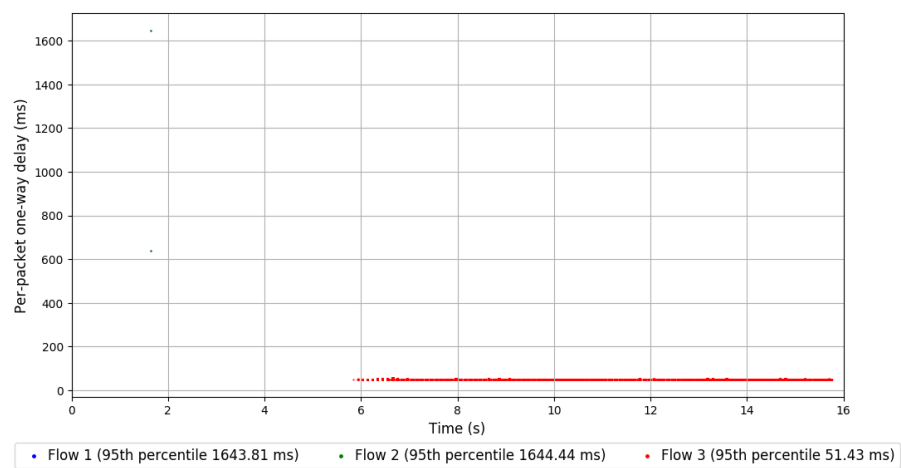
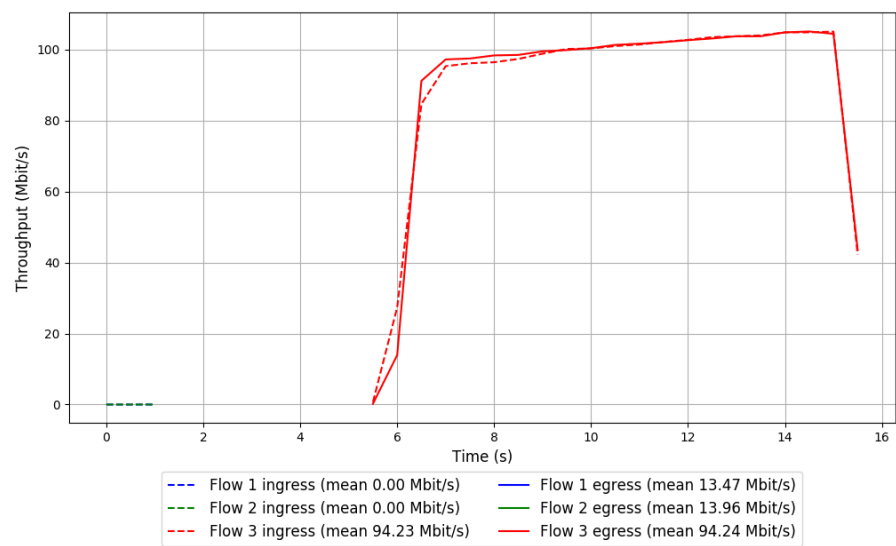


Run 1: Statistics of TCP Vegas

Start at: 2017-11-17 01:44:02

End at: 2017-11-17 01:44:32

Run 1: Report of TCP Vegas — Data Link

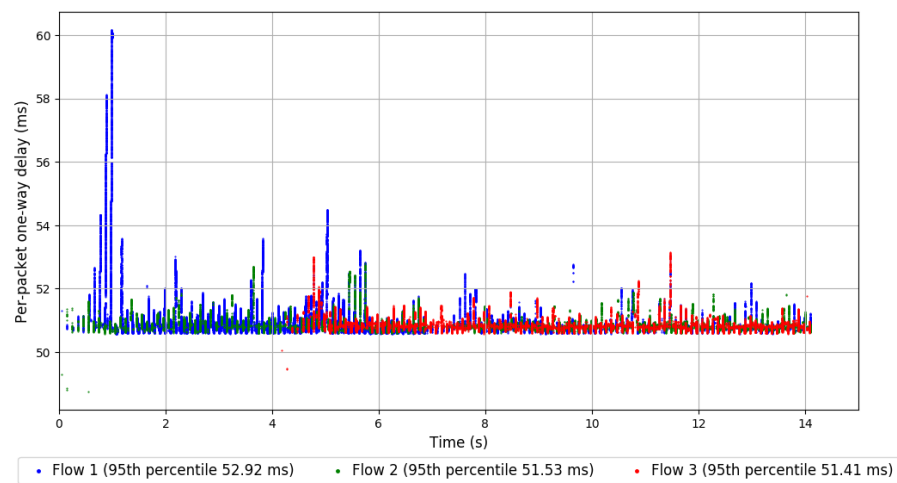
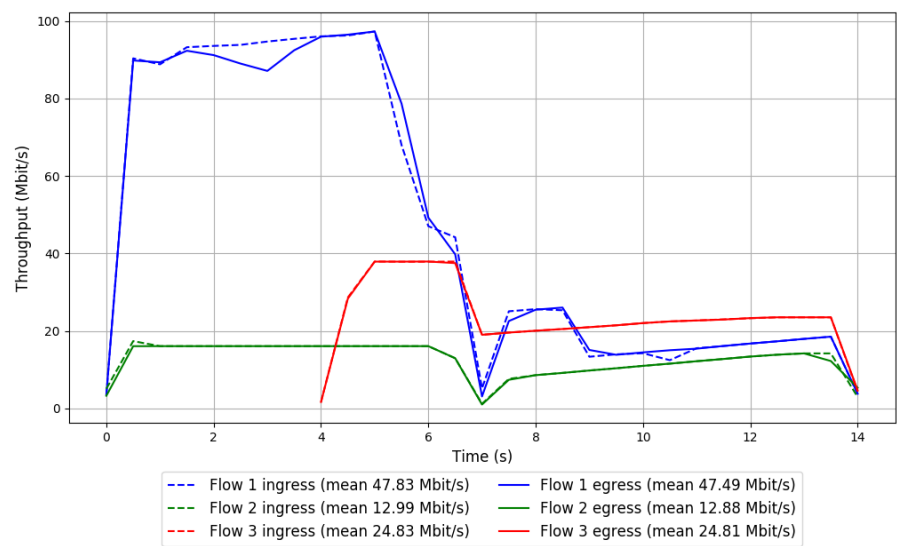


Run 2: Statistics of TCP Vegas

Start at: 2017-11-17 01:56:07

End at: 2017-11-17 01:56:37

Run 2: Report of TCP Vegas — Data Link

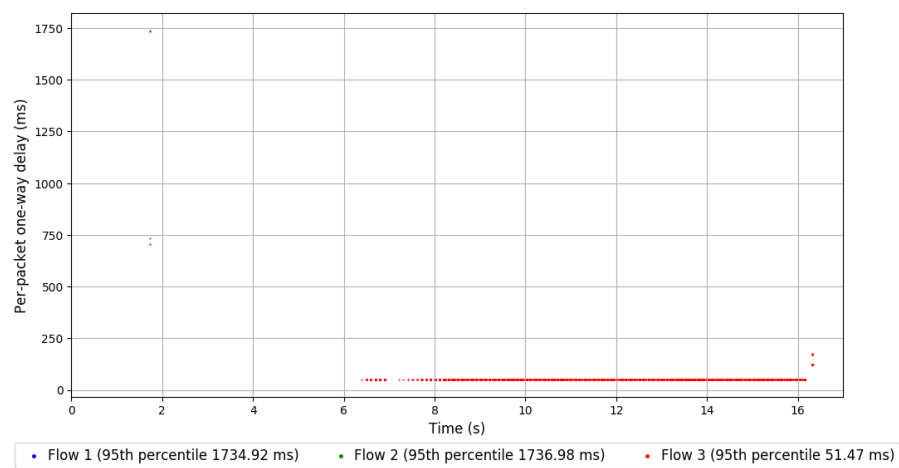
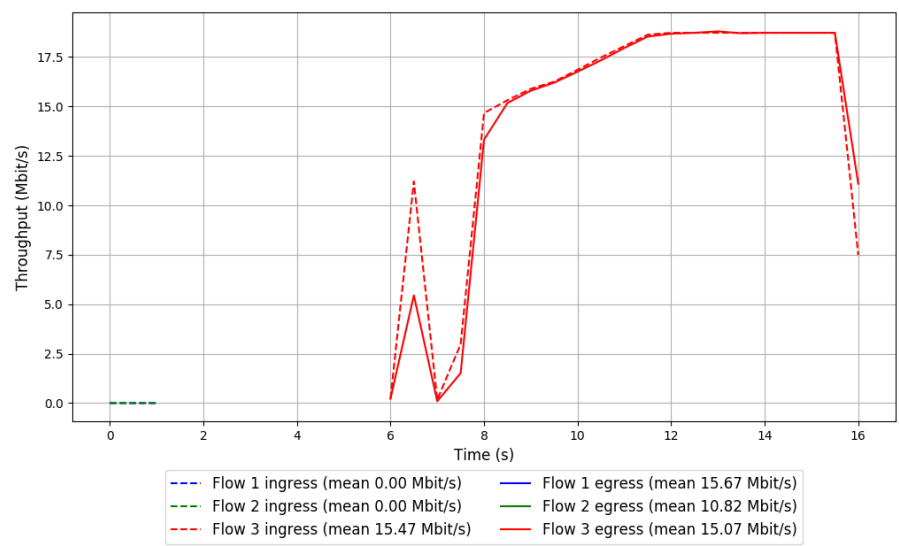


Run 3: Statistics of TCP Vegas

Start at: 2017-11-17 02:08:12

End at: 2017-11-17 02:08:42

Run 3: Report of TCP Vegas — Data Link

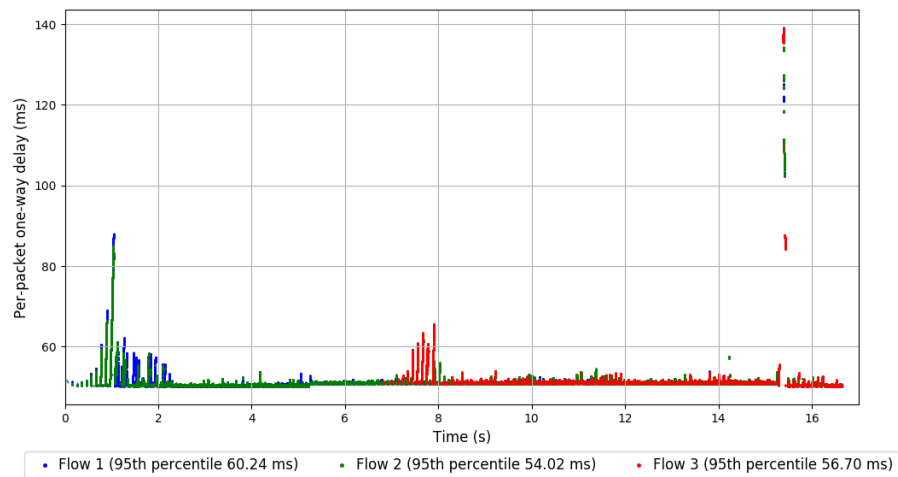
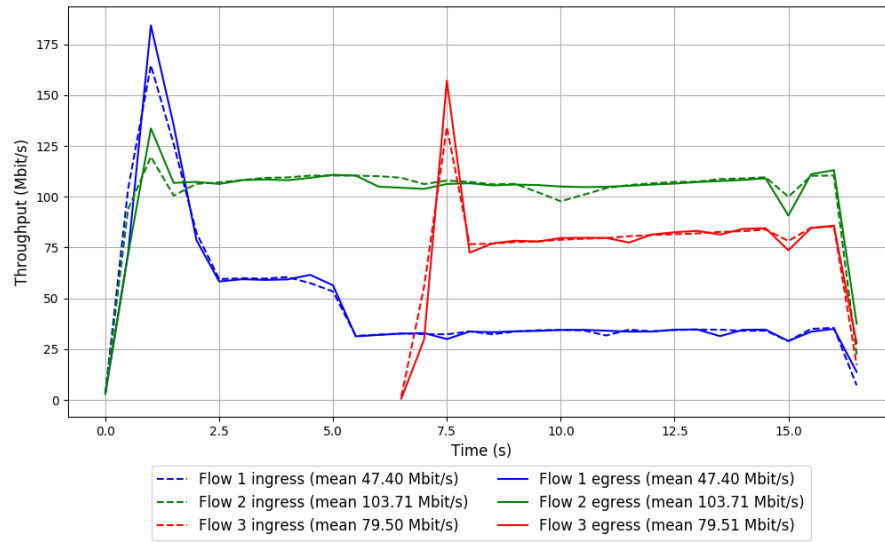


Run 4: Statistics of TCP Vegas

Start at: 2017-11-17 02:20:13

End at: 2017-11-17 02:20:43

Run 4: Report of TCP Vegas — Data Link

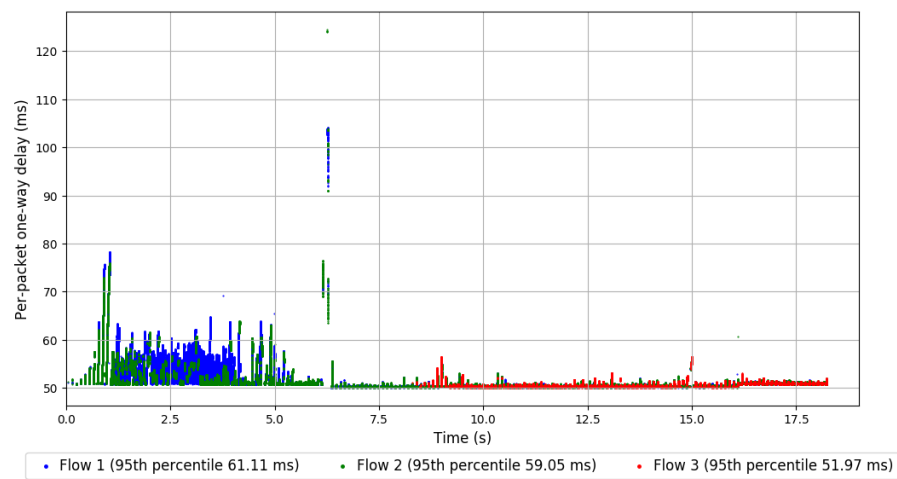
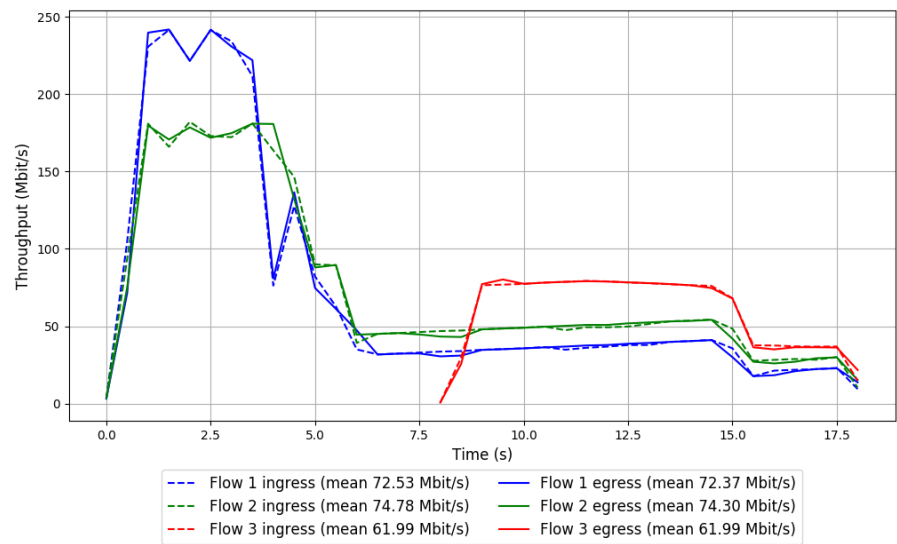


Run 5: Statistics of TCP Vegas

Start at: 2017-11-17 02:32:24

End at: 2017-11-17 02:32:54

Run 5: Report of TCP Vegas — Data Link

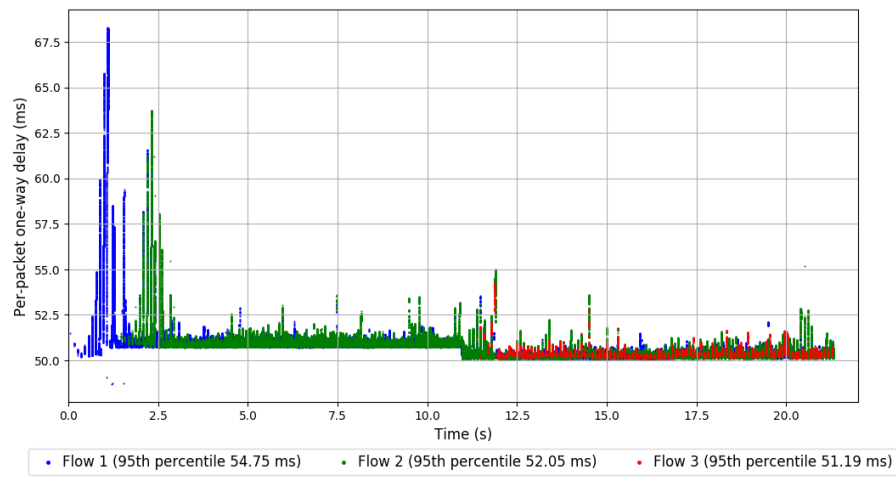
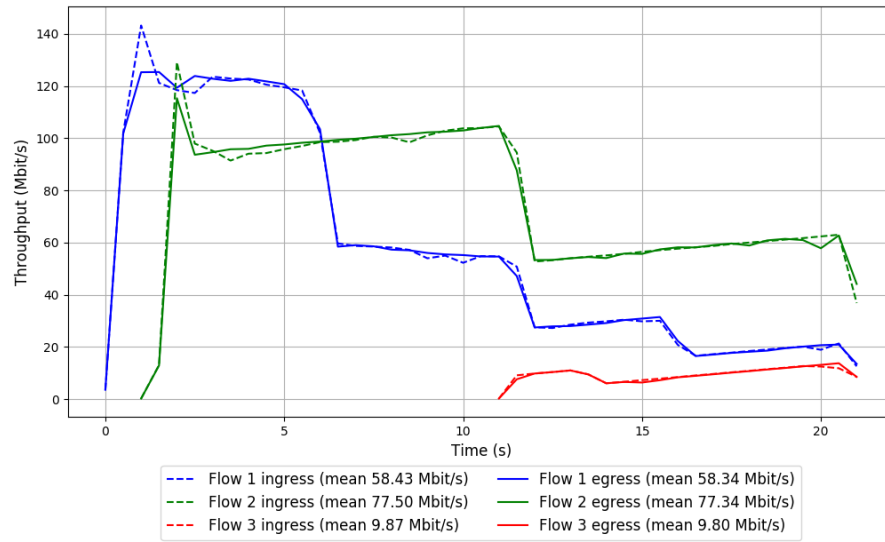


Run 6: Statistics of TCP Vegas

Start at: 2017-11-17 02:44:42

End at: 2017-11-17 02:45:12

Run 6: Report of TCP Vegas — Data Link

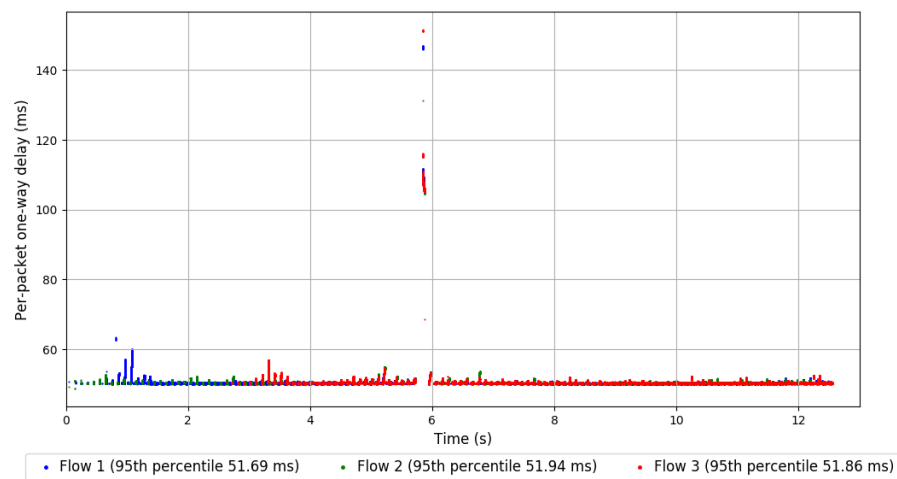
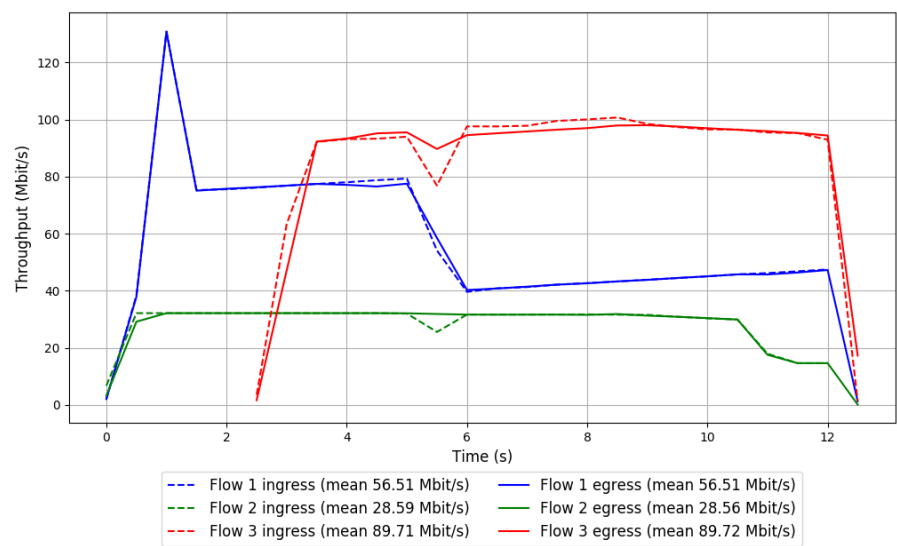


Run 7: Statistics of TCP Vegas

Start at: 2017-11-17 02:56:49

End at: 2017-11-17 02:57:19

Run 7: Report of TCP Vegas — Data Link

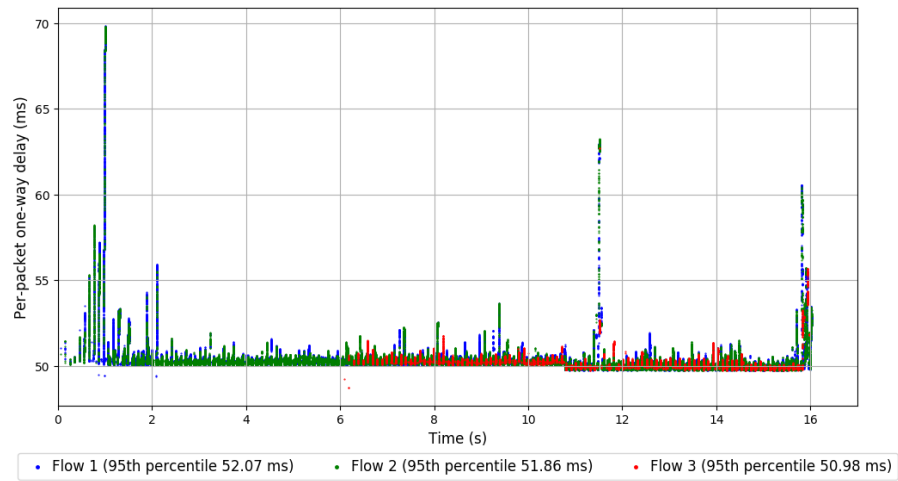
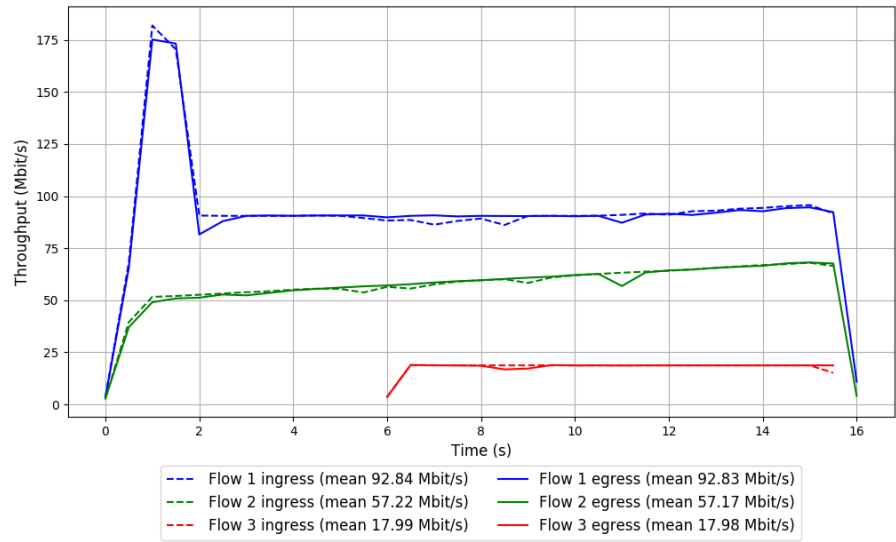


Run 8: Statistics of TCP Vegas

Start at: 2017-11-17 03:08:57

End at: 2017-11-17 03:09:27

Run 8: Report of TCP Vegas — Data Link

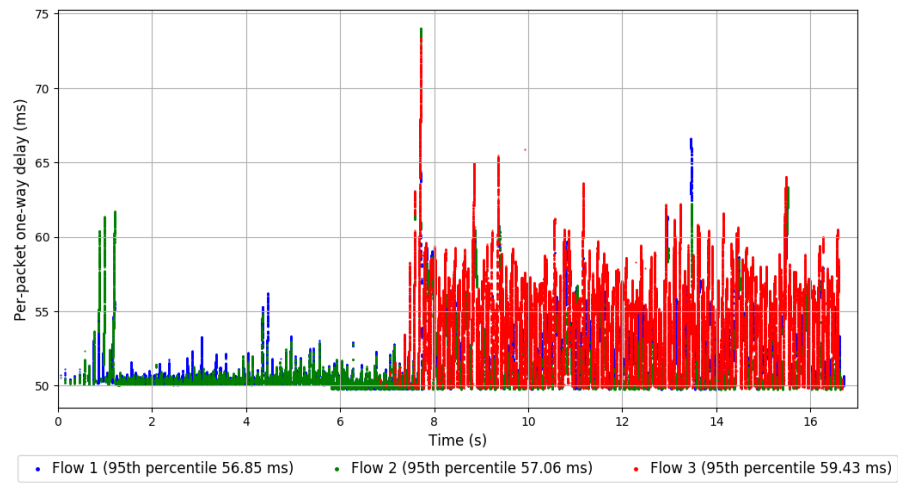
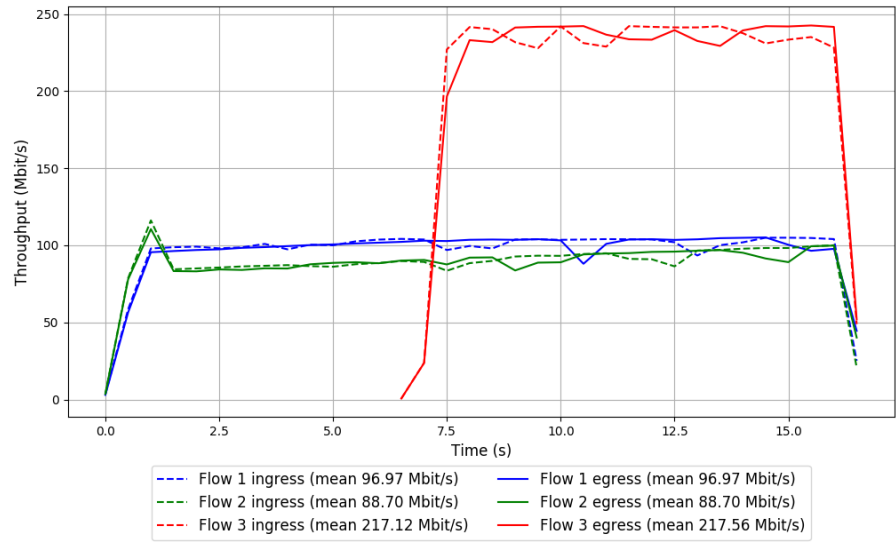


Run 9: Statistics of TCP Vegas

Start at: 2017-11-17 03:21:03

End at: 2017-11-17 03:21:33

Run 9: Report of TCP Vegas — Data Link

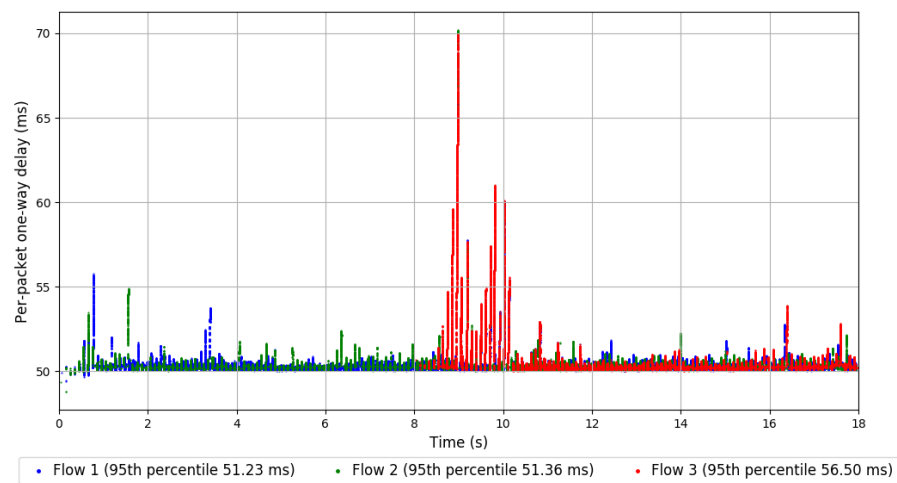
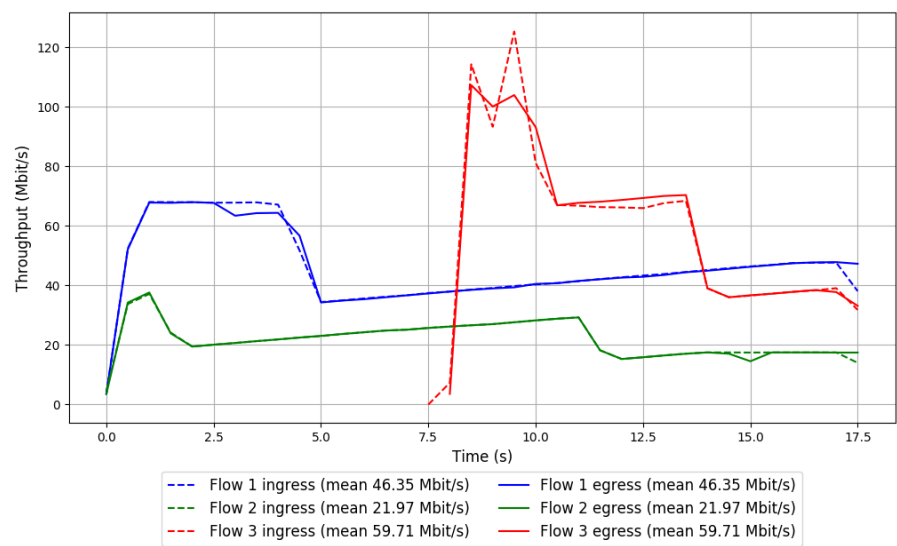


Run 10: Statistics of TCP Vegas

Start at: 2017-11-17 03:33:19

End at: 2017-11-17 03:33:49

Run 10: Report of TCP Vegas — Data Link

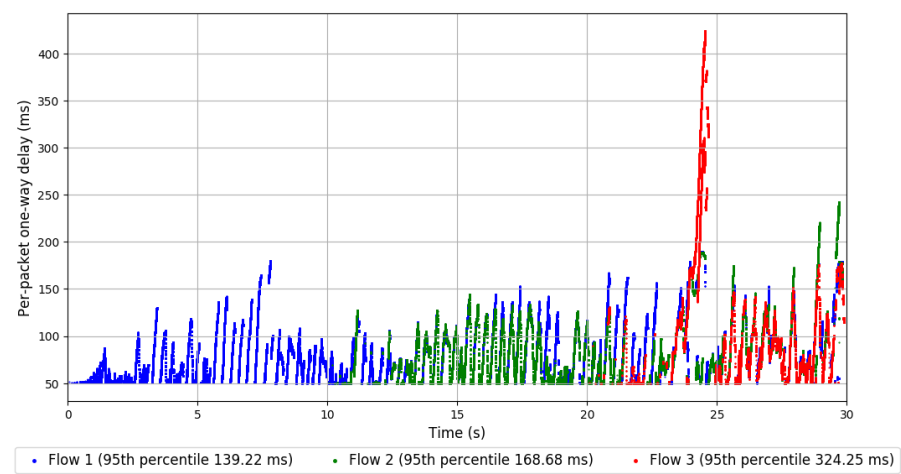
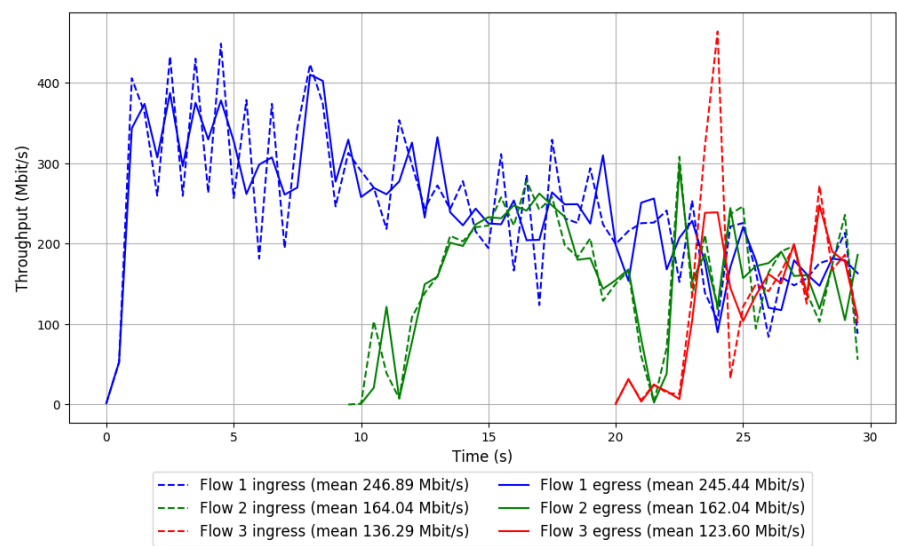


```
Run 1: Statistics of Verus

Start at: 2017-11-17 01:48:34
End at: 2017-11-17 01:49:04

# Below is generated by plot.py at 2017-11-17 05:42:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 393.02 Mbit/s
95th percentile per-packet one-way delay: 158.665 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 245.44 Mbit/s
95th percentile per-packet one-way delay: 139.216 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 162.04 Mbit/s
95th percentile per-packet one-way delay: 168.683 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 123.60 Mbit/s
95th percentile per-packet one-way delay: 324.253 ms
Loss rate: 9.30%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-17 02:00:37

End at: 2017-11-17 02:01:07

Below is generated by plot.py at 2017-11-17 05:42:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 376.00 Mbit/s

95th percentile per-packet one-way delay: 174.403 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 246.73 Mbit/s

95th percentile per-packet one-way delay: 183.077 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 135.86 Mbit/s

95th percentile per-packet one-way delay: 162.603 ms

Loss rate: 0.46%

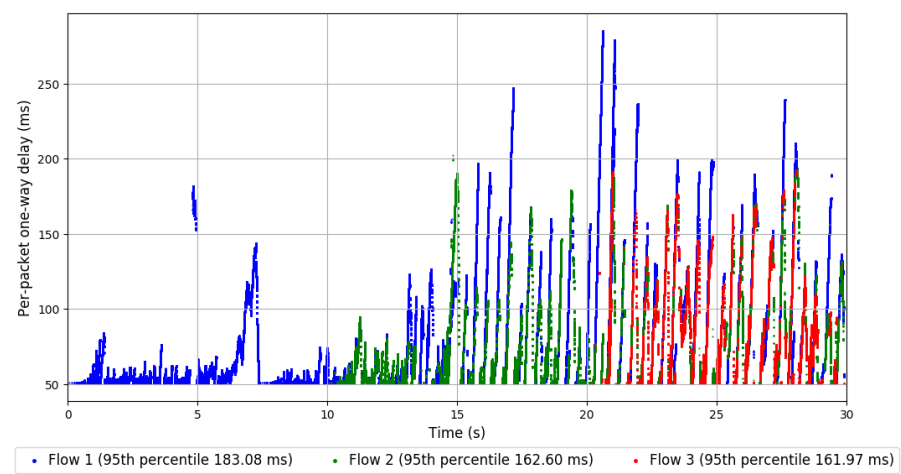
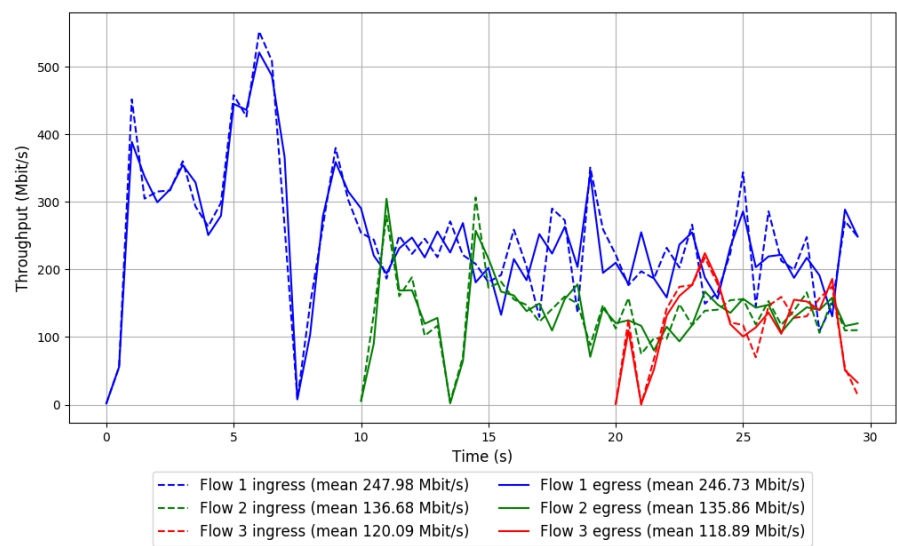
-- Flow 3:

Average throughput: 118.89 Mbit/s

95th percentile per-packet one-way delay: 161.975 ms

Loss rate: 1.06%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-17 02:12:41

End at: 2017-11-17 02:13:11

Below is generated by plot.py at 2017-11-17 05:42:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 356.25 Mbit/s

95th percentile per-packet one-way delay: 111.383 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 201.23 Mbit/s

95th percentile per-packet one-way delay: 111.029 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 176.93 Mbit/s

95th percentile per-packet one-way delay: 118.827 ms

Loss rate: 0.00%

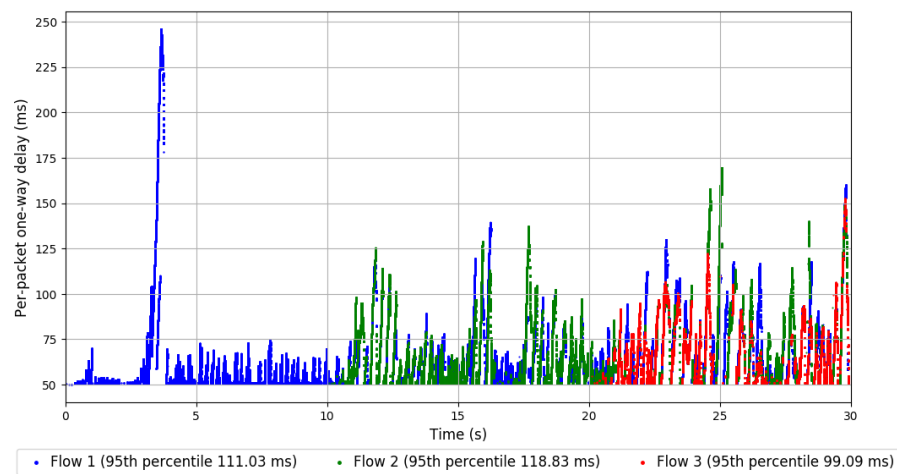
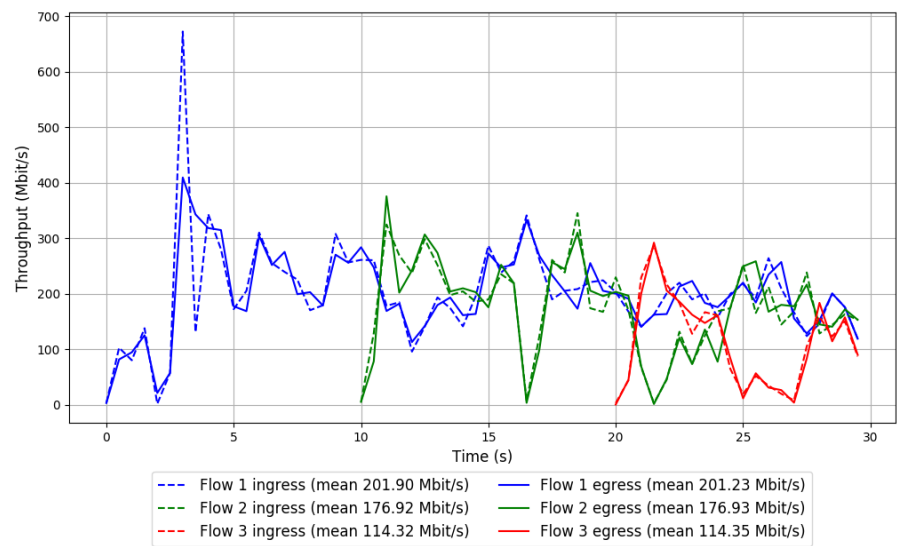
-- Flow 3:

Average throughput: 114.35 Mbit/s

95th percentile per-packet one-way delay: 99.092 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-17 02:24:48

End at: 2017-11-17 02:25:18

Below is generated by plot.py at 2017-11-17 05:42:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 370.10 Mbit/s

95th percentile per-packet one-way delay: 148.952 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 222.14 Mbit/s

95th percentile per-packet one-way delay: 137.124 ms

Loss rate: 1.19%

-- Flow 2:

Average throughput: 166.78 Mbit/s

95th percentile per-packet one-way delay: 236.786 ms

Loss rate: 1.43%

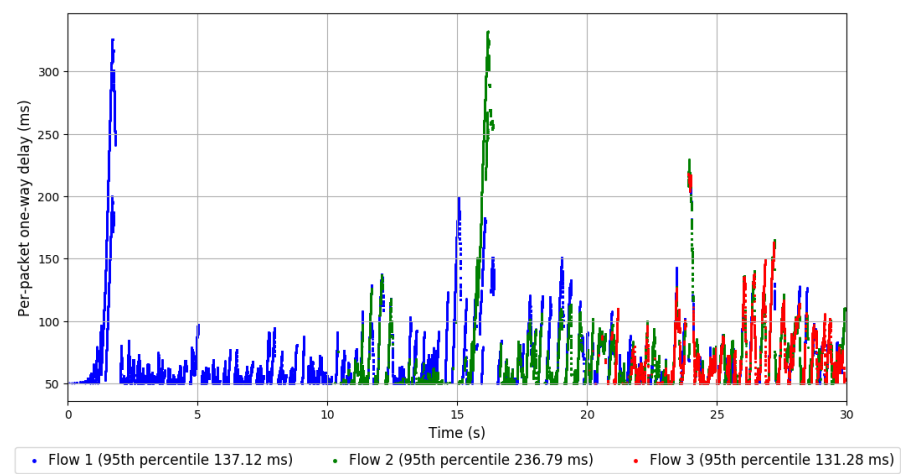
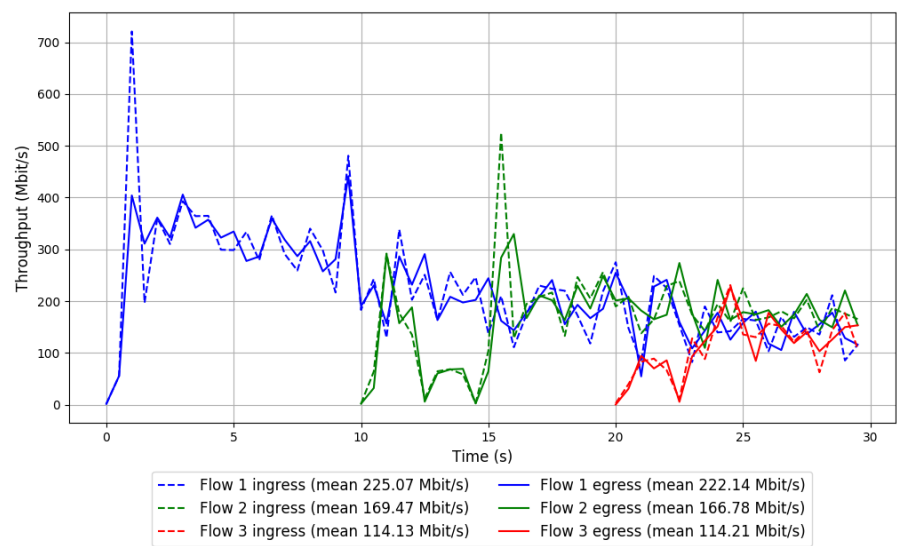
-- Flow 3:

Average throughput: 114.21 Mbit/s

95th percentile per-packet one-way delay: 131.280 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-17 02:37:04

End at: 2017-11-17 02:37:34

Below is generated by plot.py at 2017-11-17 05:44:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 365.99 Mbit/s

95th percentile per-packet one-way delay: 111.672 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 234.02 Mbit/s

95th percentile per-packet one-way delay: 108.532 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 121.87 Mbit/s

95th percentile per-packet one-way delay: 108.497 ms

Loss rate: 0.16%

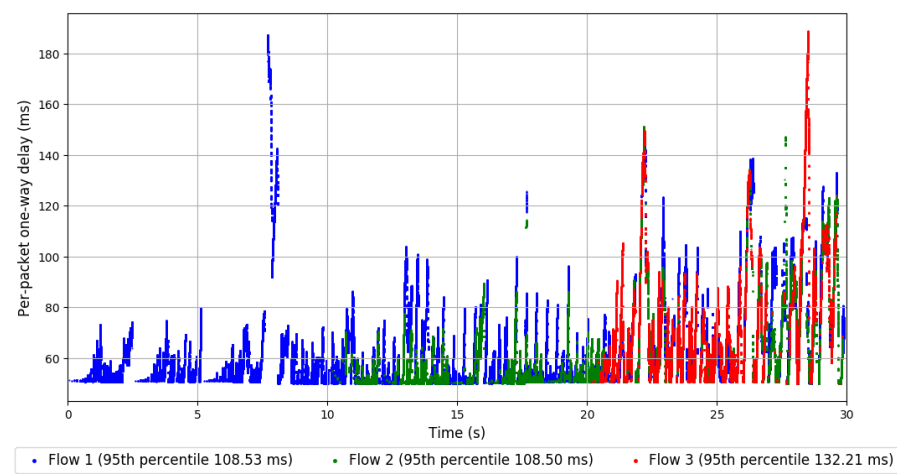
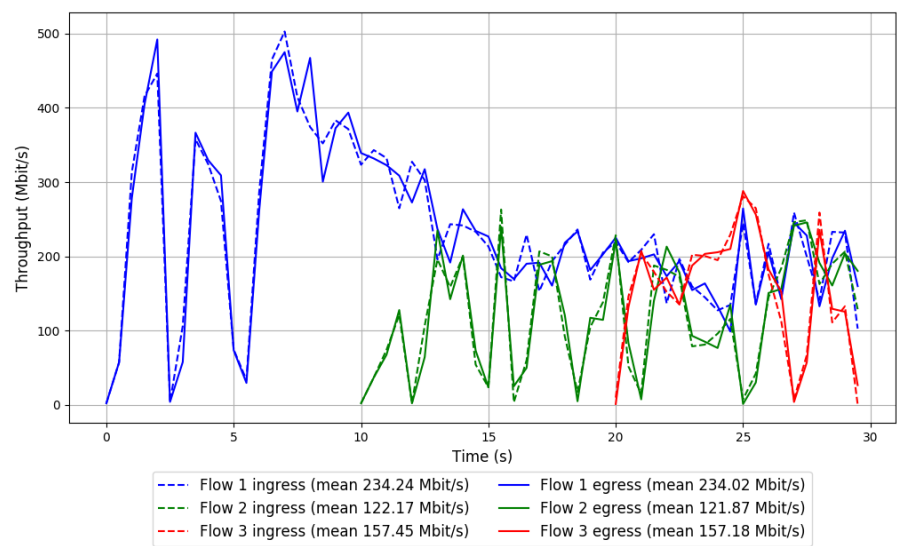
-- Flow 3:

Average throughput: 157.18 Mbit/s

95th percentile per-packet one-way delay: 132.205 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-11-17 02:49:21

End at: 2017-11-17 02:49:51

Below is generated by plot.py at 2017-11-17 05:45:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 347.04 Mbit/s

95th percentile per-packet one-way delay: 138.412 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 231.52 Mbit/s

95th percentile per-packet one-way delay: 118.286 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 125.04 Mbit/s

95th percentile per-packet one-way delay: 168.034 ms

Loss rate: 0.35%

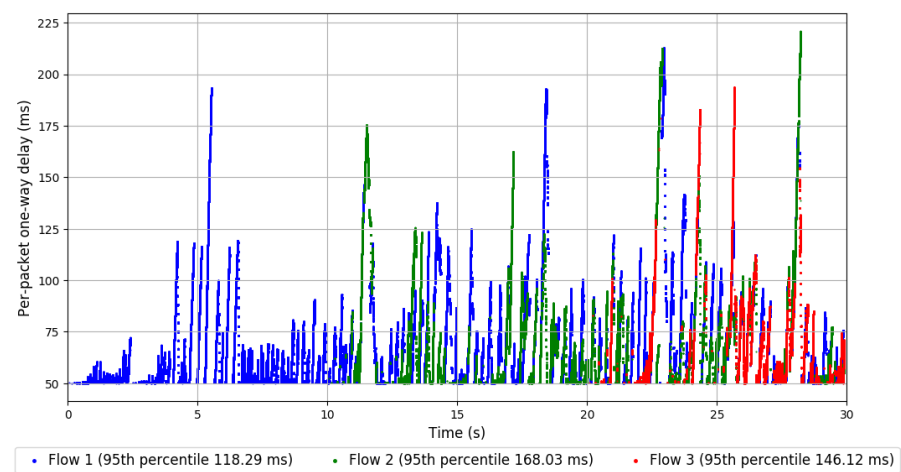
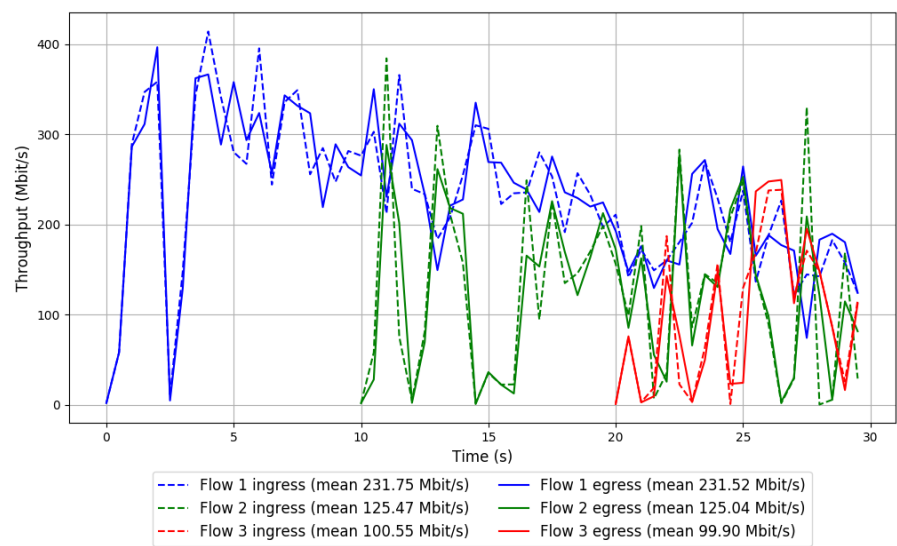
-- Flow 3:

Average throughput: 99.90 Mbit/s

95th percentile per-packet one-way delay: 146.116 ms

Loss rate: 0.64%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-17 03:01:25

End at: 2017-11-17 03:01:55

Below is generated by plot.py at 2017-11-17 05:47:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 356.27 Mbit/s

95th percentile per-packet one-way delay: 163.751 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 198.49 Mbit/s

95th percentile per-packet one-way delay: 161.929 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 191.67 Mbit/s

95th percentile per-packet one-way delay: 149.746 ms

Loss rate: 0.25%

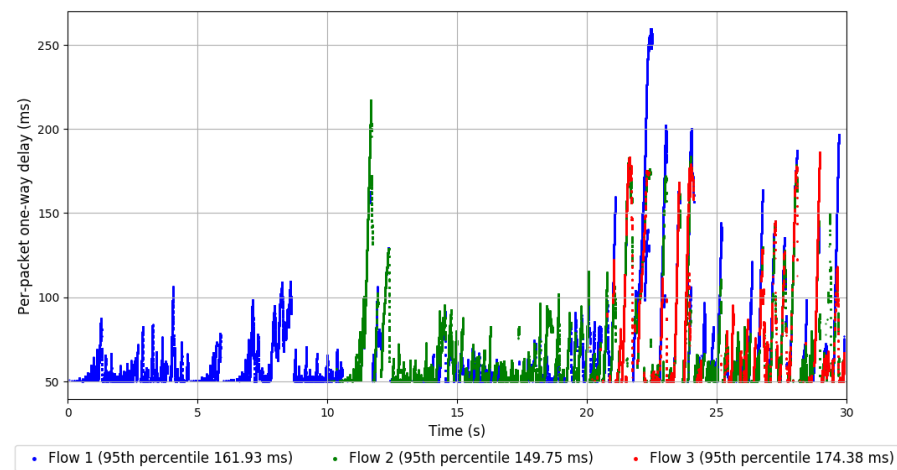
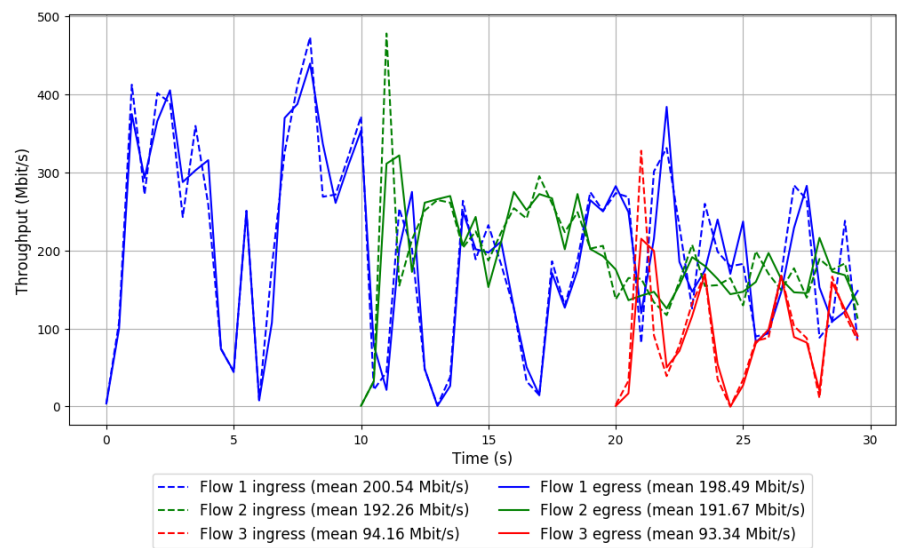
-- Flow 3:

Average throughput: 93.34 Mbit/s

95th percentile per-packet one-way delay: 174.382 ms

Loss rate: 1.11%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-11-17 03:13:30

End at: 2017-11-17 03:14:00

Below is generated by plot.py at 2017-11-17 05:48:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 341.62 Mbit/s

95th percentile per-packet one-way delay: 235.361 ms

Loss rate: 2.03%

-- Flow 1:

Average throughput: 246.21 Mbit/s

95th percentile per-packet one-way delay: 246.165 ms

Loss rate: 2.60%

-- Flow 2:

Average throughput: 78.69 Mbit/s

95th percentile per-packet one-way delay: 153.459 ms

Loss rate: 0.16%

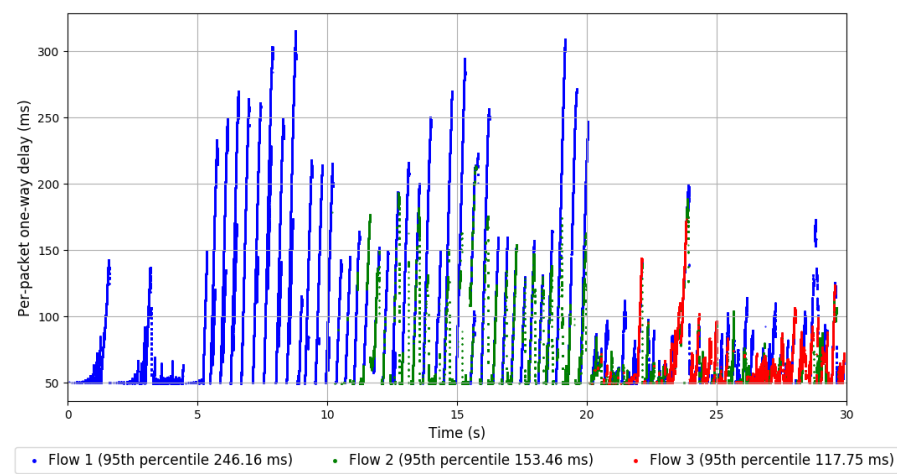
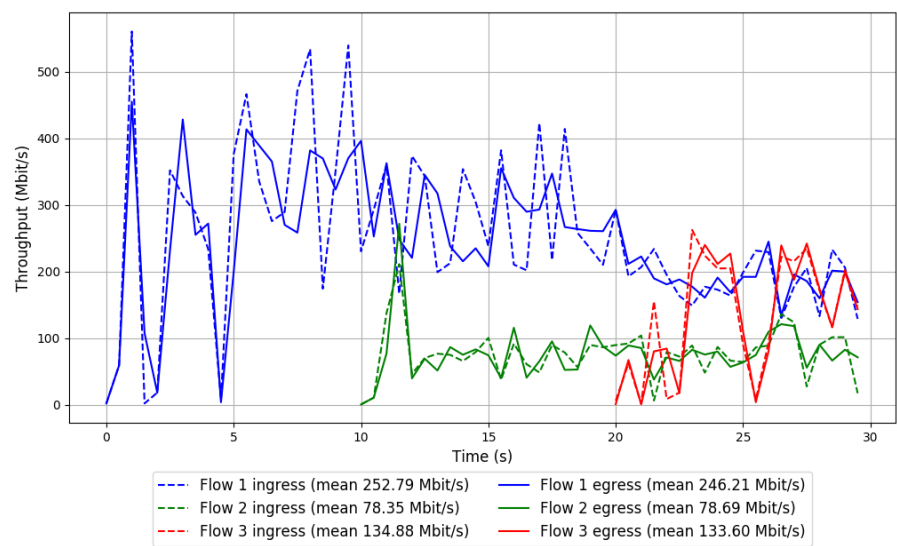
-- Flow 3:

Average throughput: 133.60 Mbit/s

95th percentile per-packet one-way delay: 117.753 ms

Loss rate: 0.92%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-11-17 03:25:44

End at: 2017-11-17 03:26:14

Below is generated by plot.py at 2017-11-17 05:48:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 372.70 Mbit/s

95th percentile per-packet one-way delay: 123.097 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 235.23 Mbit/s

95th percentile per-packet one-way delay: 123.991 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 144.63 Mbit/s

95th percentile per-packet one-way delay: 117.073 ms

Loss rate: 0.16%

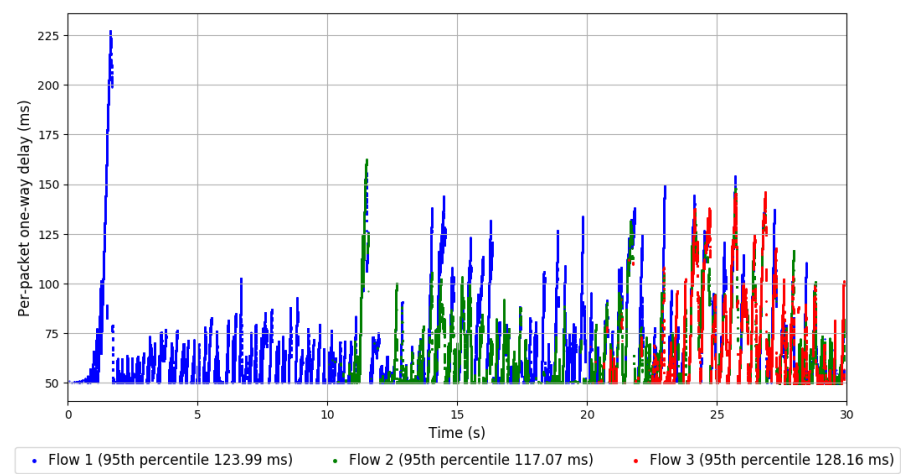
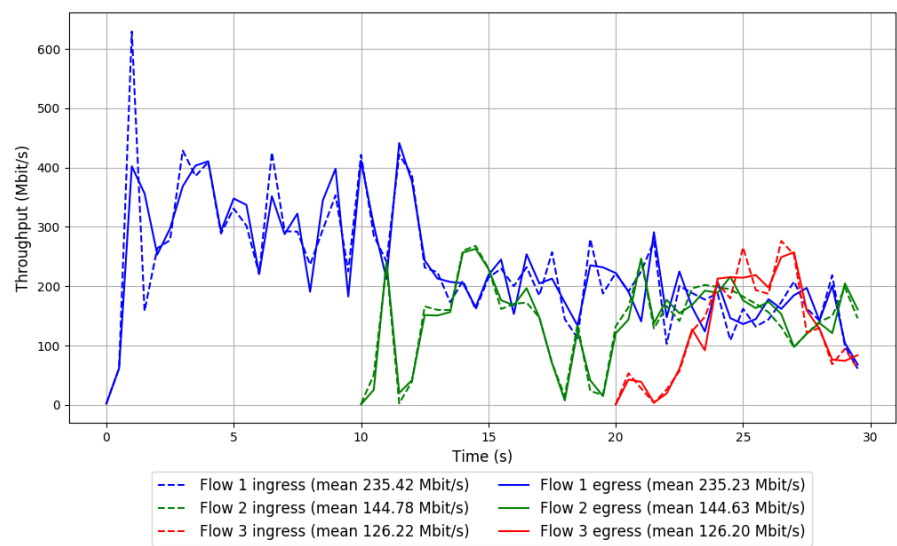
-- Flow 3:

Average throughput: 126.20 Mbit/s

95th percentile per-packet one-way delay: 128.157 ms

Loss rate: 0.19%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-17 03:37:51

End at: 2017-11-17 03:38:21

Below is generated by plot.py at 2017-11-17 05:48:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 317.87 Mbit/s

95th percentile per-packet one-way delay: 201.139 ms

Loss rate: 3.68%

-- Flow 1:

Average throughput: 149.14 Mbit/s

95th percentile per-packet one-way delay: 224.901 ms

Loss rate: 2.15%

-- Flow 2:

Average throughput: 170.78 Mbit/s

95th percentile per-packet one-way delay: 269.080 ms

Loss rate: 6.24%

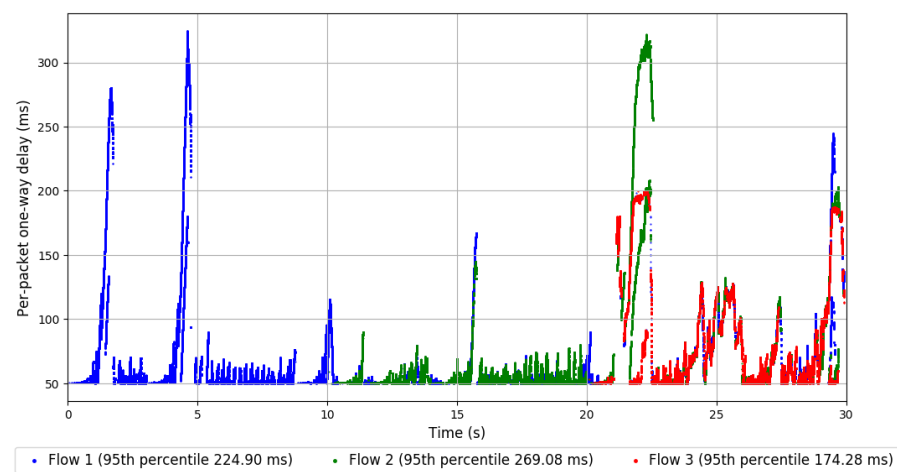
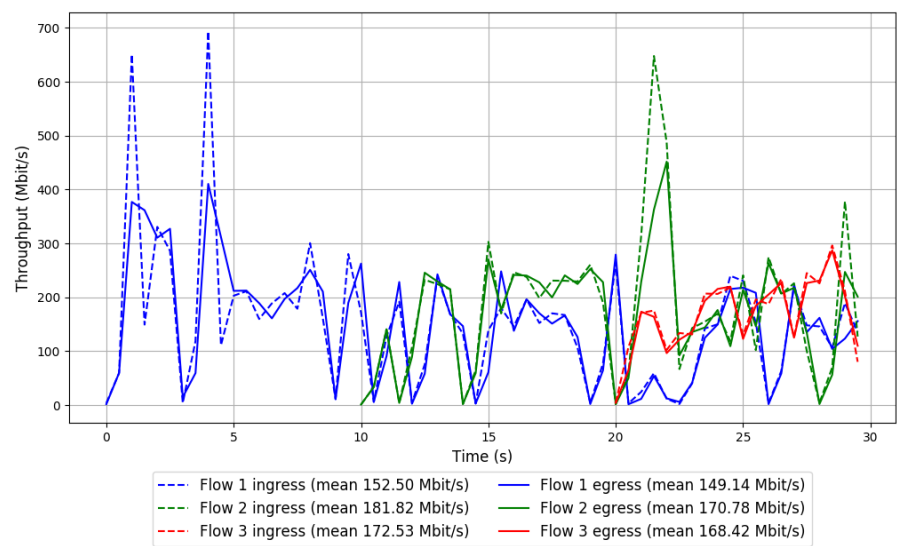
-- Flow 3:

Average throughput: 168.42 Mbit/s

95th percentile per-packet one-way delay: 174.278 ms

Loss rate: 2.34%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-11-17 01:43:07

End at: 2017-11-17 01:43:37

Below is generated by plot.py at 2017-11-17 05:48:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 160.97 Mbit/s

95th percentile per-packet one-way delay: 50.922 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 86.03 Mbit/s

95th percentile per-packet one-way delay: 50.922 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 87.15 Mbit/s

95th percentile per-packet one-way delay: 50.931 ms

Loss rate: 0.00%

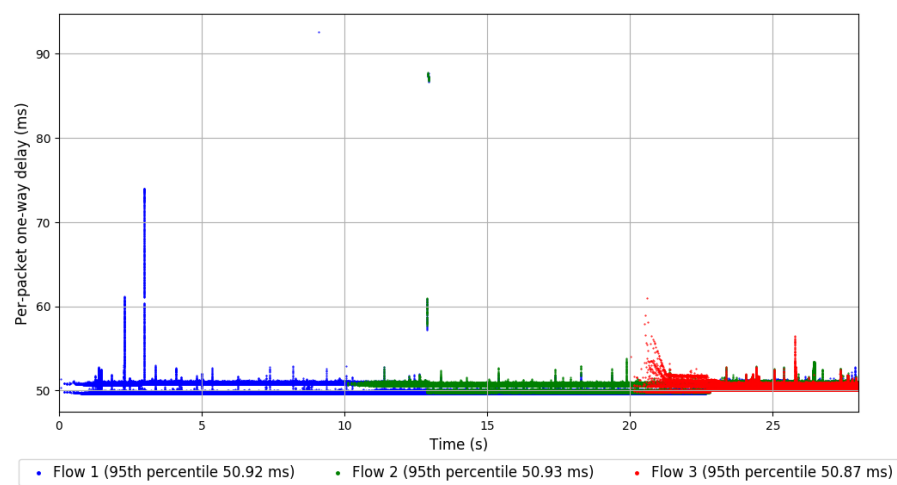
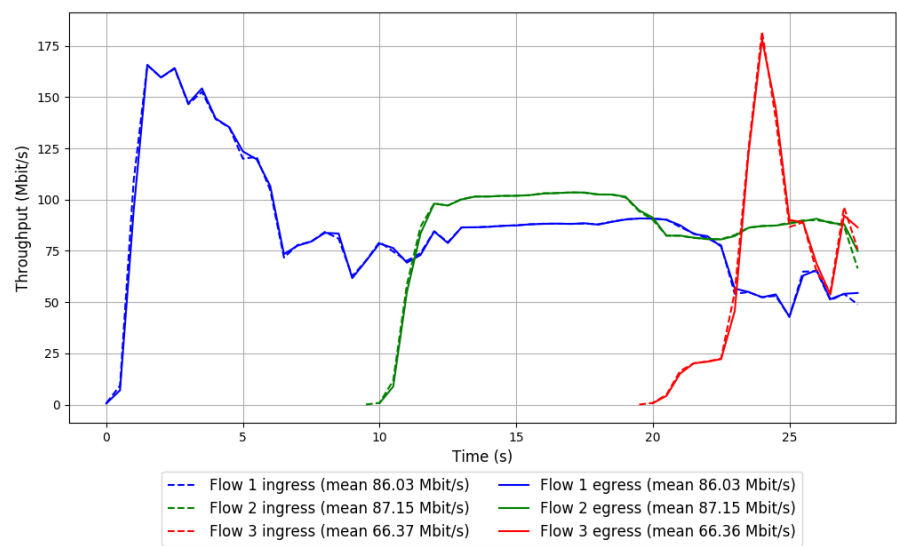
-- Flow 3:

Average throughput: 66.36 Mbit/s

95th percentile per-packet one-way delay: 50.865 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-11-17 01:55:14

End at: 2017-11-17 01:55:44

Below is generated by plot.py at 2017-11-17 05:48:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 144.85 Mbit/s

95th percentile per-packet one-way delay: 50.885 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 68.44 Mbit/s

95th percentile per-packet one-way delay: 50.808 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 81.40 Mbit/s

95th percentile per-packet one-way delay: 50.940 ms

Loss rate: 0.00%

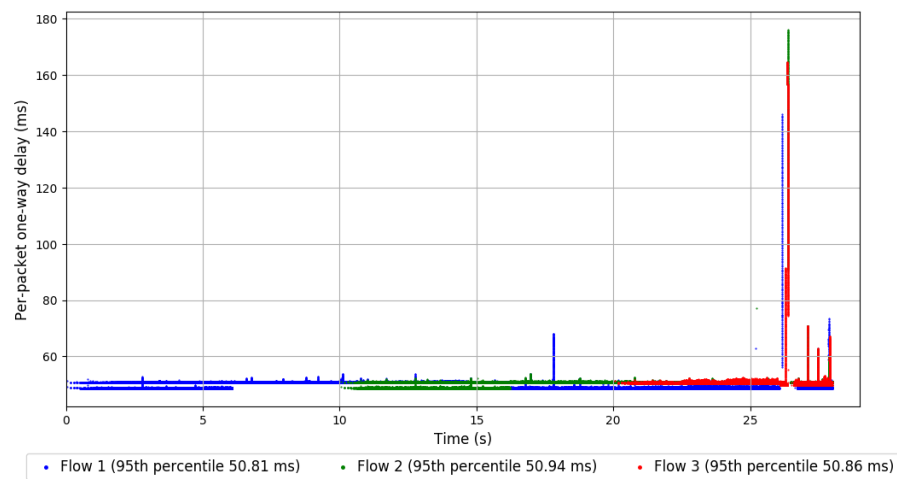
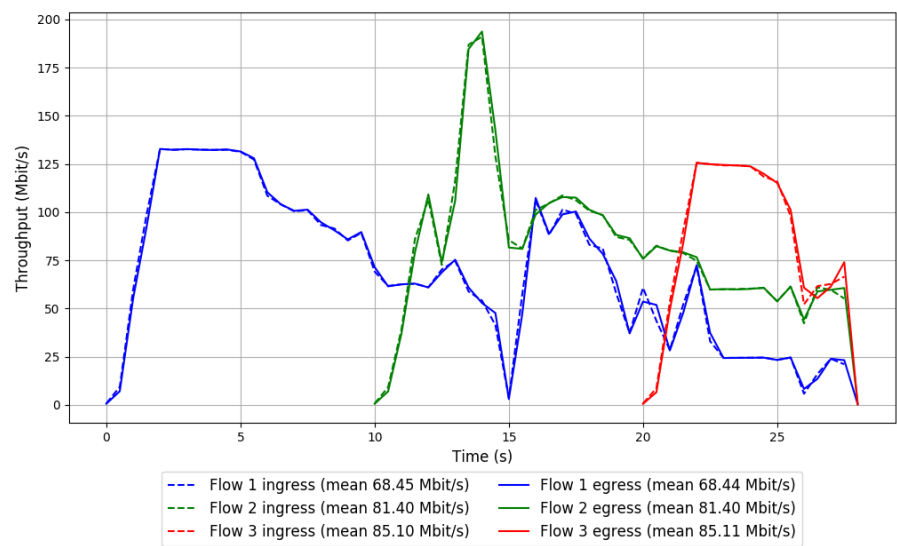
-- Flow 3:

Average throughput: 85.11 Mbit/s

95th percentile per-packet one-way delay: 50.858 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-17 02:07:20

End at: 2017-11-17 02:07:50

Below is generated by plot.py at 2017-11-17 05:48:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 135.67 Mbit/s

95th percentile per-packet one-way delay: 50.867 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 70.03 Mbit/s

95th percentile per-packet one-way delay: 50.885 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 79.17 Mbit/s

95th percentile per-packet one-way delay: 50.805 ms

Loss rate: 0.00%

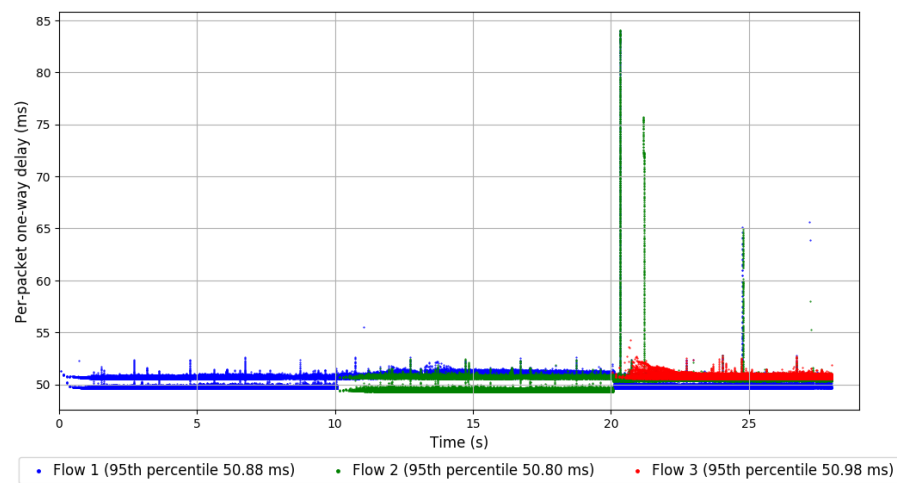
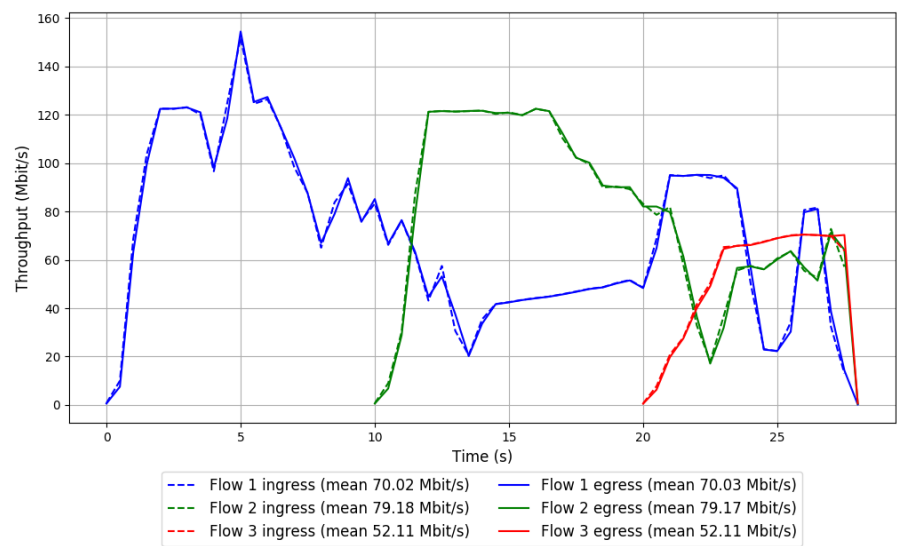
-- Flow 3:

Average throughput: 52.11 Mbit/s

95th percentile per-packet one-way delay: 50.985 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-17 02:19:18

End at: 2017-11-17 02:19:48

Below is generated by plot.py at 2017-11-17 05:50:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 164.40 Mbit/s

95th percentile per-packet one-way delay: 50.819 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 80.39 Mbit/s

95th percentile per-packet one-way delay: 50.888 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 86.81 Mbit/s

95th percentile per-packet one-way delay: 50.255 ms

Loss rate: 0.00%

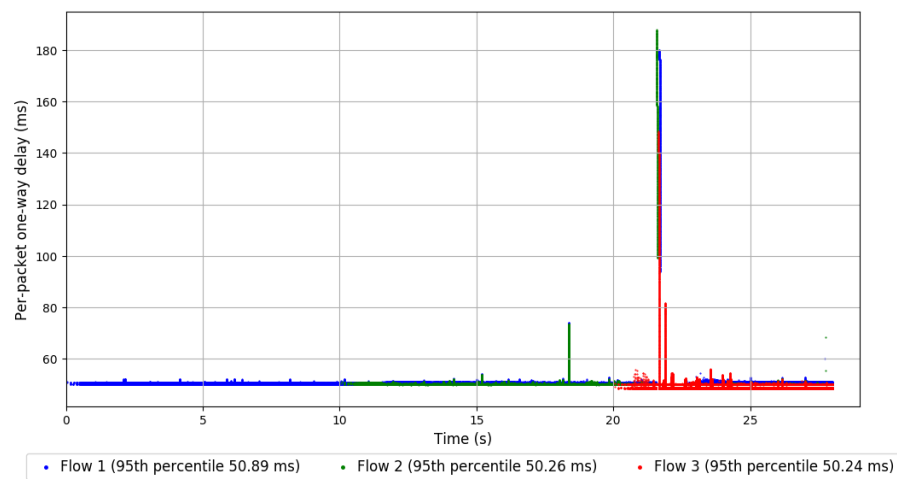
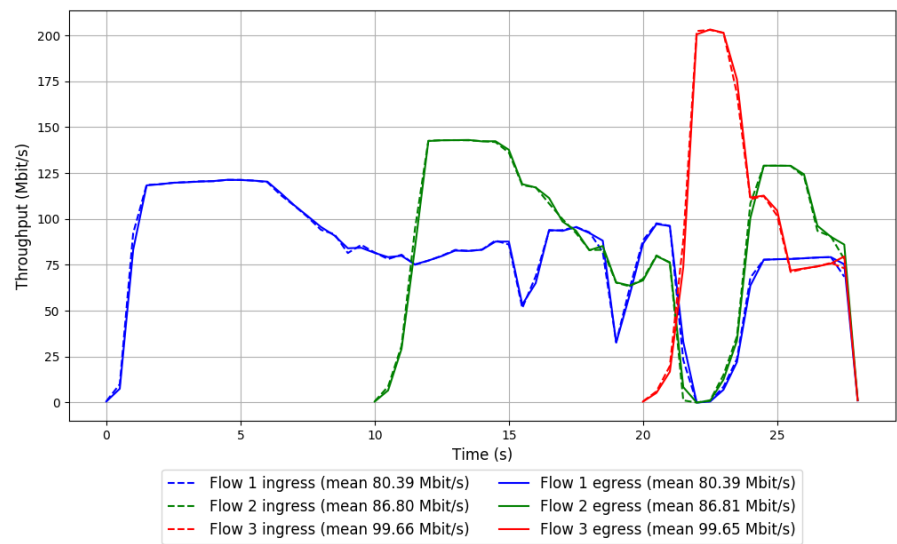
-- Flow 3:

Average throughput: 99.65 Mbit/s

95th percentile per-packet one-way delay: 50.242 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-17 02:31:30

End at: 2017-11-17 02:32:00

Below is generated by plot.py at 2017-11-17 05:51:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 148.94 Mbit/s

95th percentile per-packet one-way delay: 50.885 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 70.73 Mbit/s

95th percentile per-packet one-way delay: 50.925 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 81.77 Mbit/s

95th percentile per-packet one-way delay: 50.844 ms

Loss rate: 0.07%

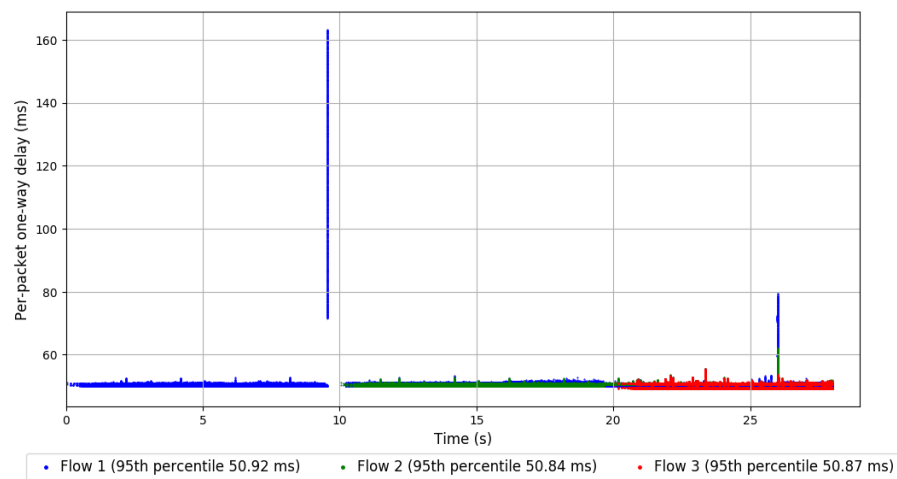
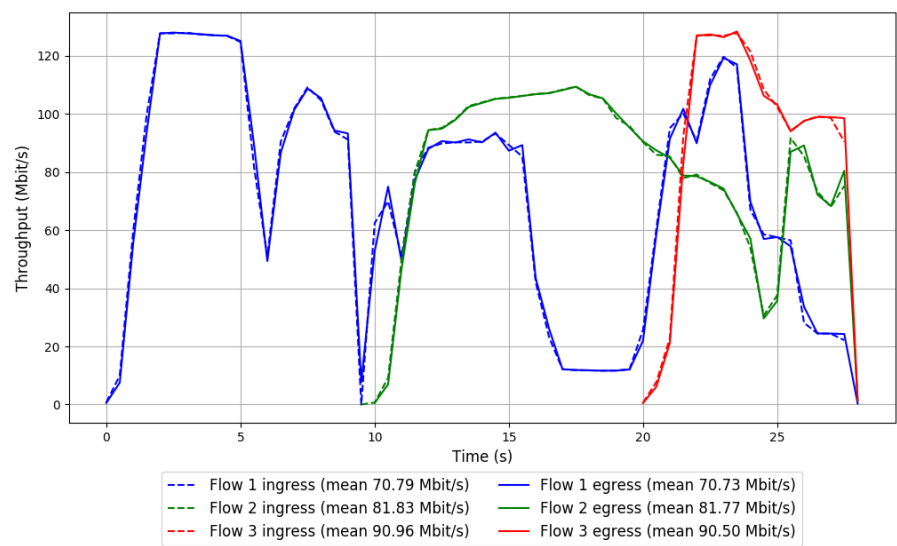
-- Flow 3:

Average throughput: 90.50 Mbit/s

95th percentile per-packet one-way delay: 50.874 ms

Loss rate: 0.51%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-17 02:43:48

End at: 2017-11-17 02:44:18

Below is generated by plot.py at 2017-11-17 05:51:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 156.35 Mbit/s

95th percentile per-packet one-way delay: 50.780 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 80.52 Mbit/s

95th percentile per-packet one-way delay: 50.823 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 79.36 Mbit/s

95th percentile per-packet one-way delay: 50.276 ms

Loss rate: 0.00%

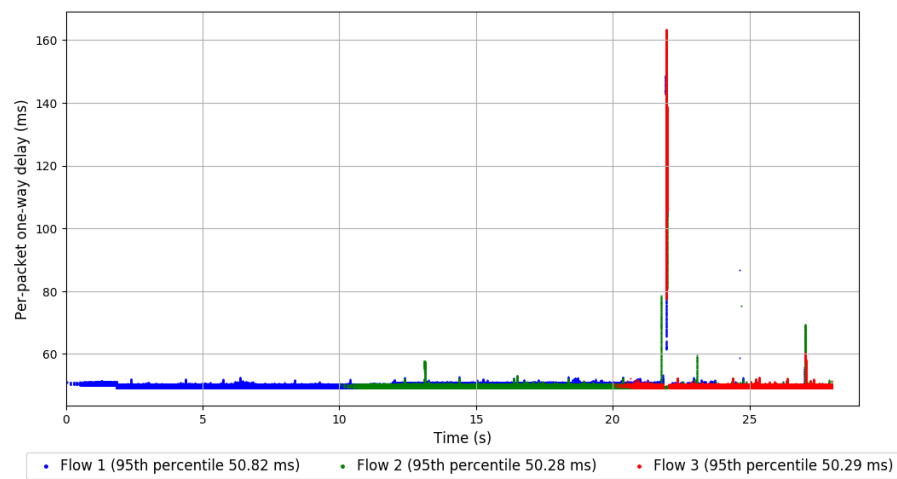
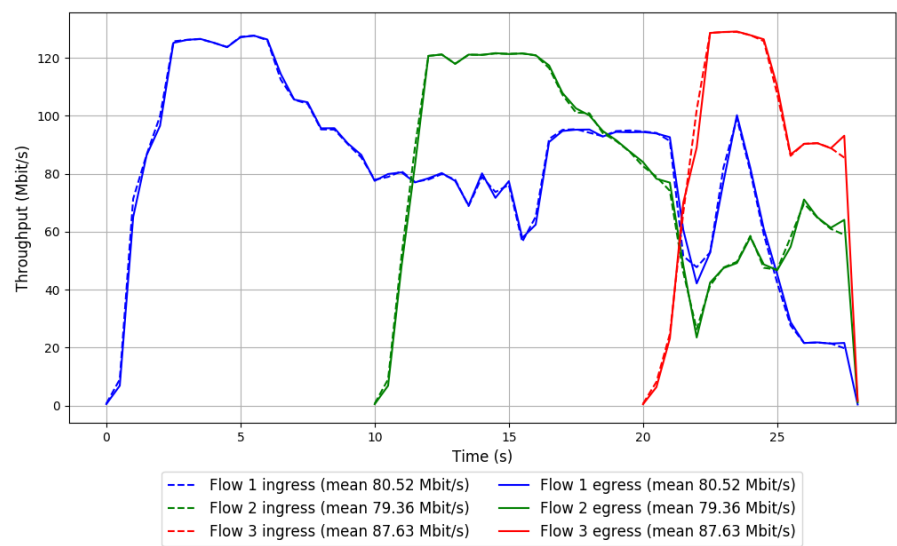
-- Flow 3:

Average throughput: 87.63 Mbit/s

95th percentile per-packet one-way delay: 50.288 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-11-17 02:55:57

End at: 2017-11-17 02:56:27

Below is generated by plot.py at 2017-11-17 05:51:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 132.03 Mbit/s

95th percentile per-packet one-way delay: 50.514 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.15 Mbit/s

95th percentile per-packet one-way delay: 50.325 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 78.72 Mbit/s

95th percentile per-packet one-way delay: 50.620 ms

Loss rate: 0.00%

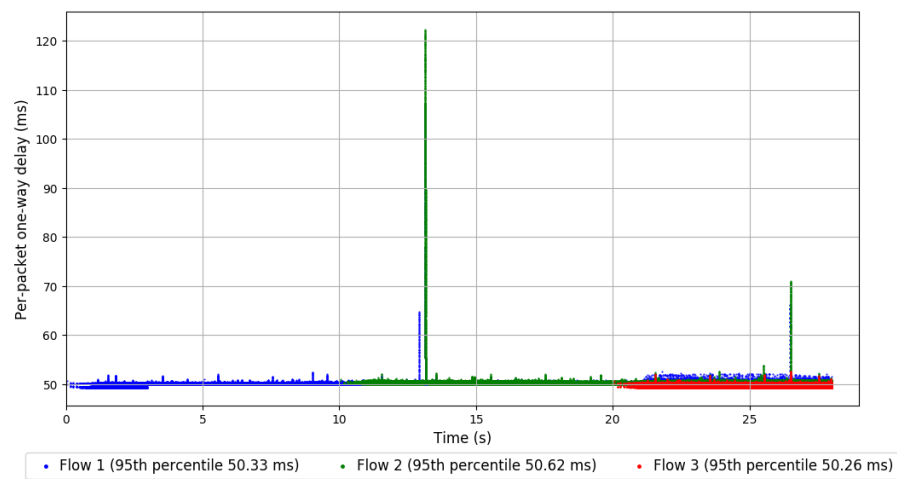
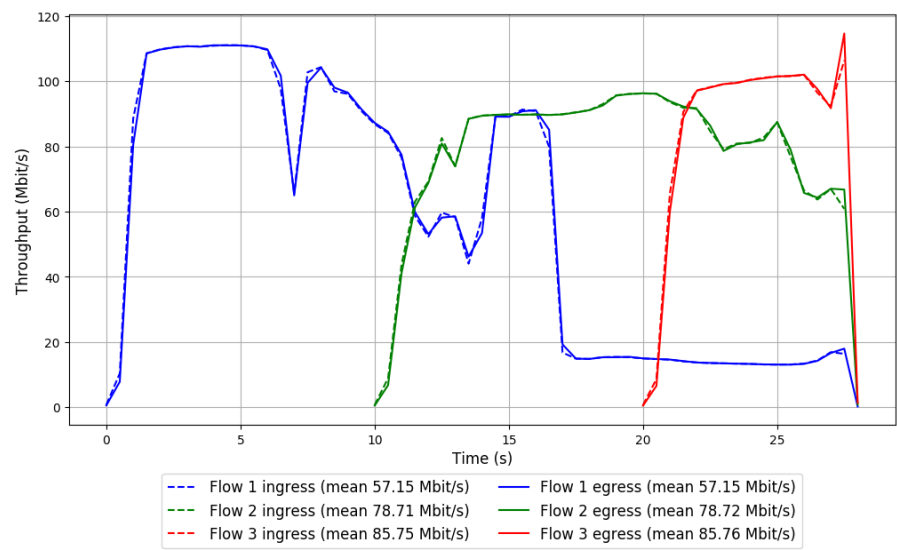
-- Flow 3:

Average throughput: 85.76 Mbit/s

95th percentile per-packet one-way delay: 50.258 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-11-17 03:08:03

End at: 2017-11-17 03:08:33

Below is generated by plot.py at 2017-11-17 05:52:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 154.76 Mbit/s

95th percentile per-packet one-way delay: 50.321 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 80.02 Mbit/s

95th percentile per-packet one-way delay: 50.350 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 78.69 Mbit/s

95th percentile per-packet one-way delay: 50.267 ms

Loss rate: 0.00%

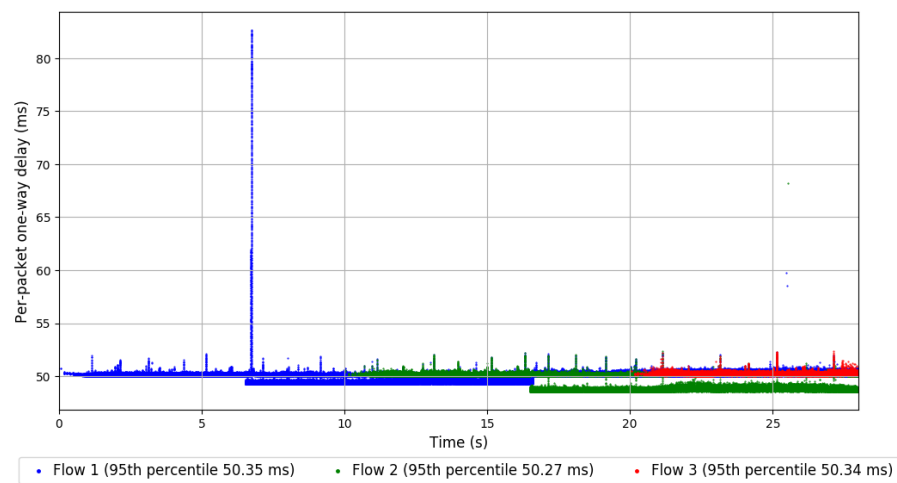
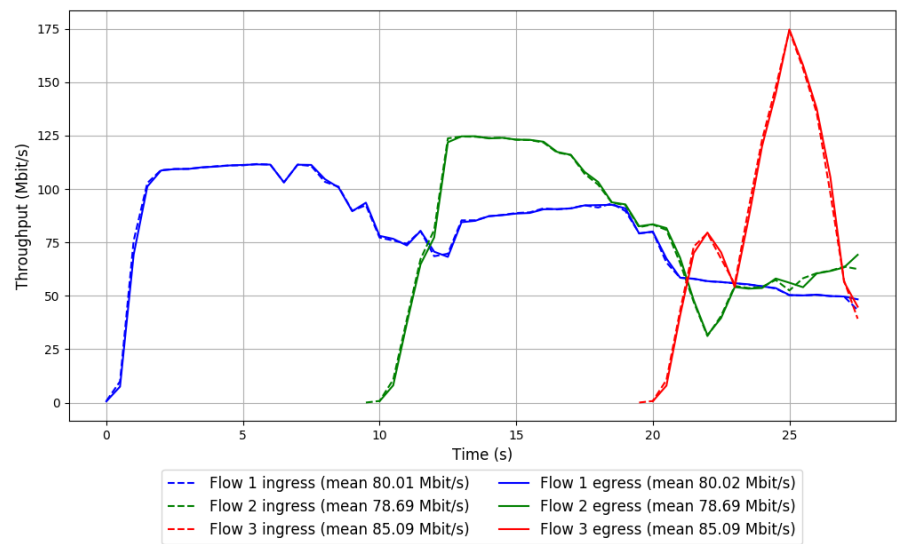
-- Flow 3:

Average throughput: 85.09 Mbit/s

95th percentile per-packet one-way delay: 50.340 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-11-17 03:20:08

End at: 2017-11-17 03:20:38

Below is generated by plot.py at 2017-11-17 05:52:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 160.08 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 81.51 Mbit/s

95th percentile per-packet one-way delay: 50.292 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 84.38 Mbit/s

95th percentile per-packet one-way delay: 50.255 ms

Loss rate: 0.00%

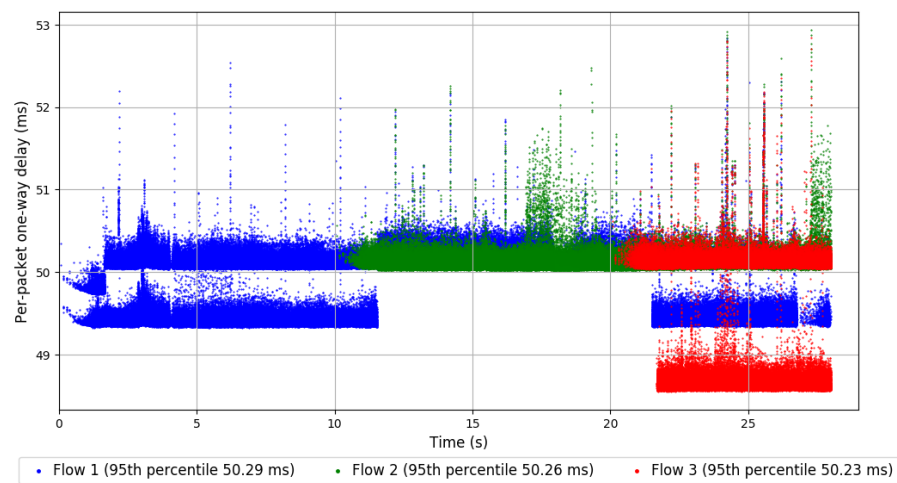
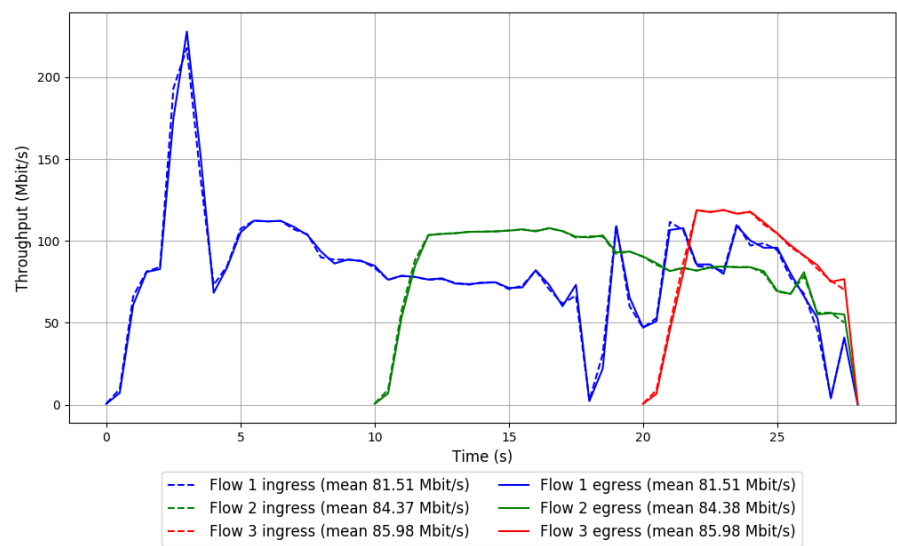
-- Flow 3:

Average throughput: 85.98 Mbit/s

95th percentile per-packet one-way delay: 50.233 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-17 03:32:25

End at: 2017-11-17 03:32:55

Below is generated by plot.py at 2017-11-17 05:53:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 151.68 Mbit/s

95th percentile per-packet one-way delay: 50.556 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 74.60 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 84.24 Mbit/s

95th percentile per-packet one-way delay: 50.657 ms

Loss rate: 0.00%

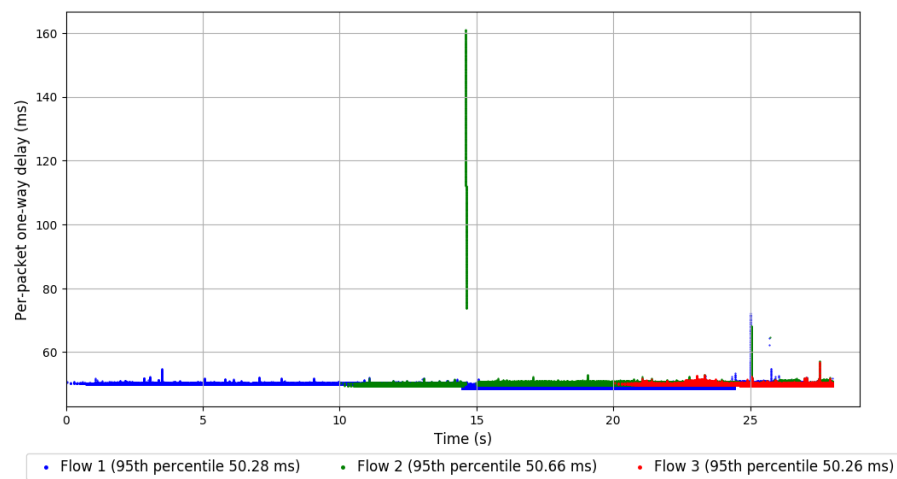
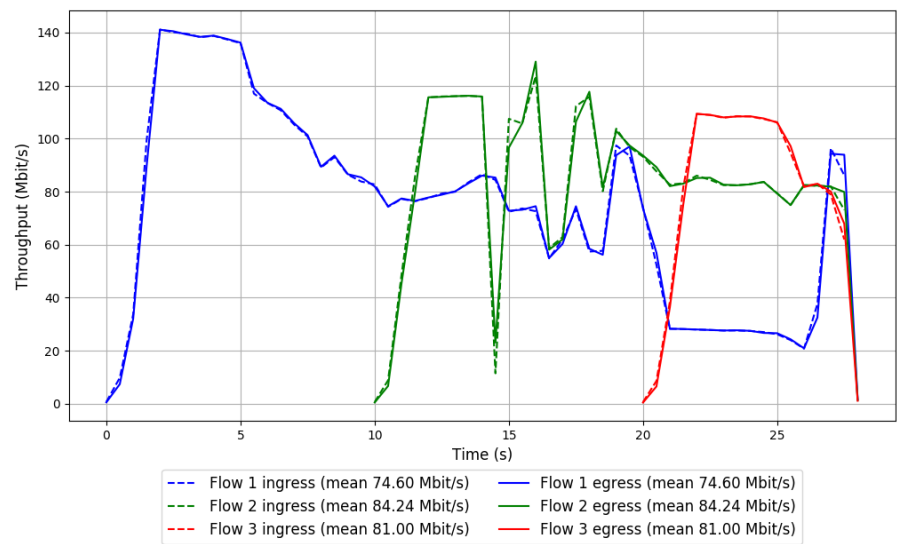
-- Flow 3:

Average throughput: 81.00 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

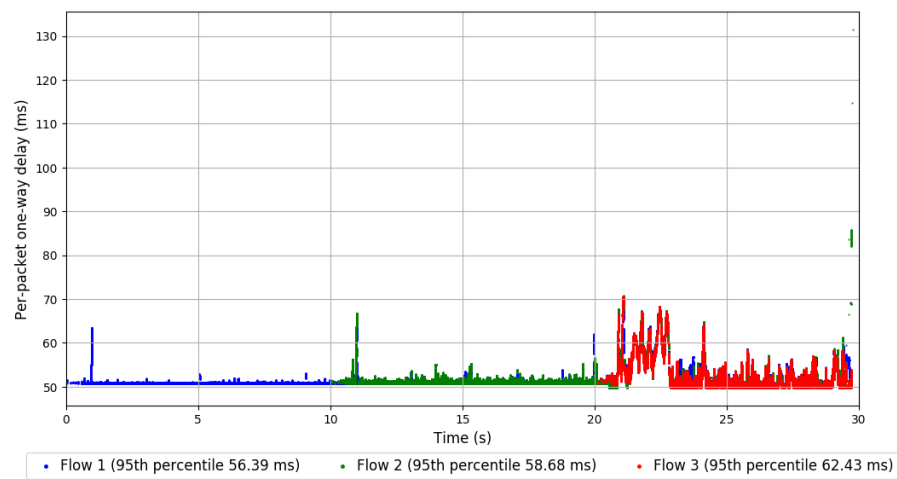
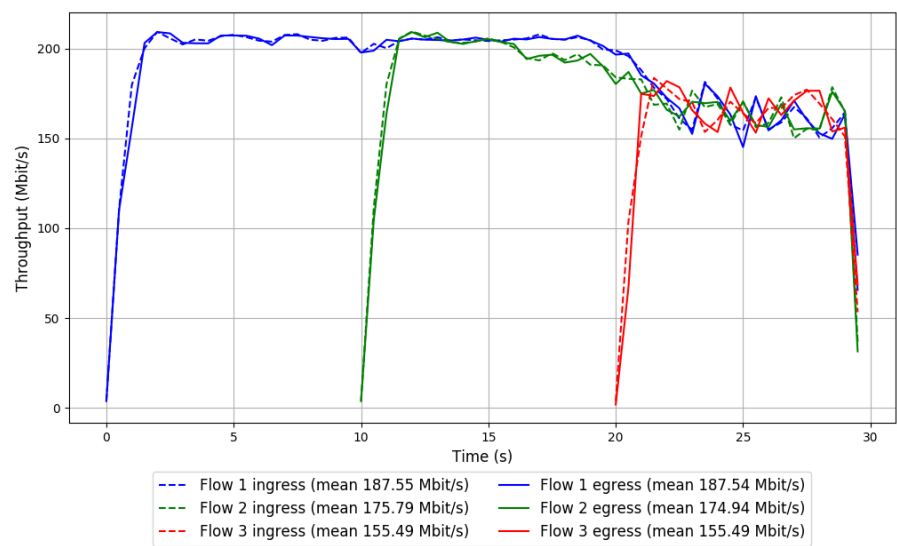


```
Run 1: Statistics of Indigo

Start at: 2017-11-17 01:46:51
End at: 2017-11-17 01:47:21

# Below is generated by plot.py at 2017-11-17 05:54:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 353.52 Mbit/s
95th percentile per-packet one-way delay: 58.567 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 187.54 Mbit/s
95th percentile per-packet one-way delay: 56.388 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 174.94 Mbit/s
95th percentile per-packet one-way delay: 58.682 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 155.49 Mbit/s
95th percentile per-packet one-way delay: 62.428 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo — Data Link

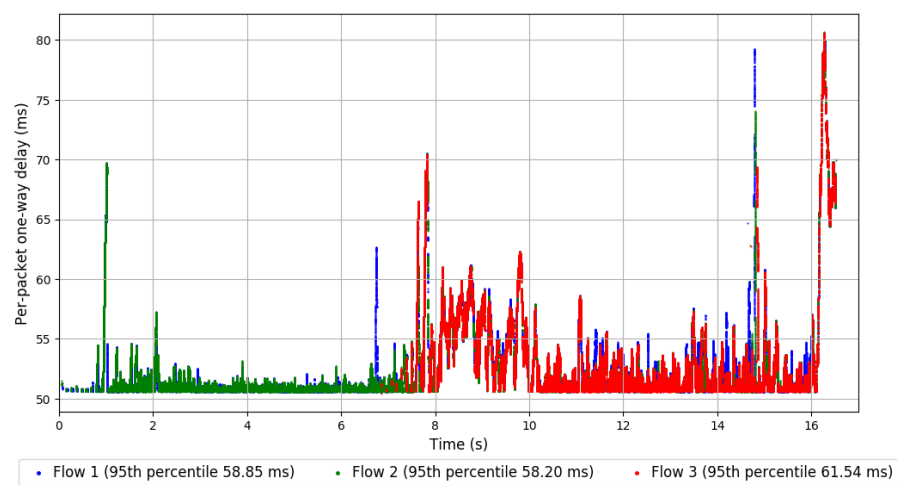
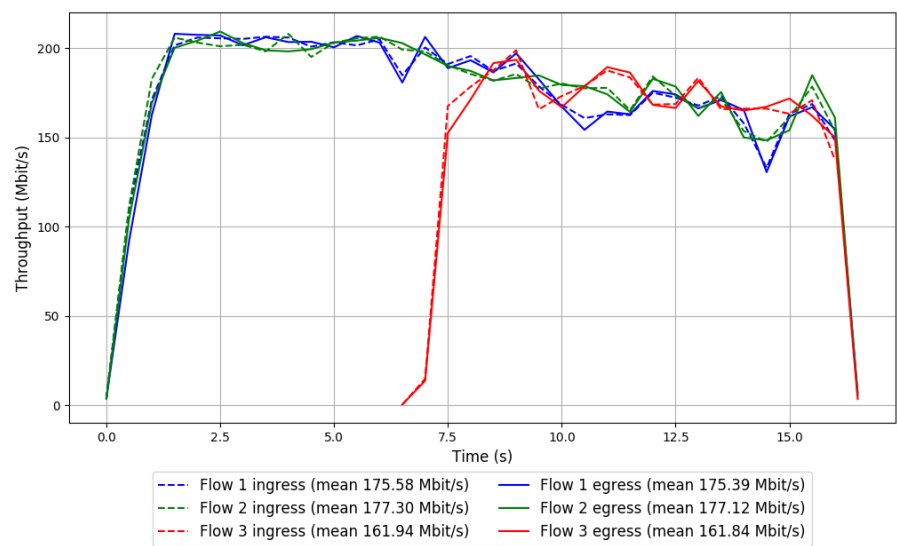


Run 2: Statistics of Indigo

Start at: 2017-11-17 01:59:01

End at: 2017-11-17 01:59:31

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-17 02:11:00

End at: 2017-11-17 02:11:30

Below is generated by plot.py at 2017-11-17 05:56:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 322.06 Mbit/s

95th percentile per-packet one-way delay: 52.380 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 174.64 Mbit/s

95th percentile per-packet one-way delay: 51.902 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 166.34 Mbit/s

95th percentile per-packet one-way delay: 52.961 ms

Loss rate: 0.01%

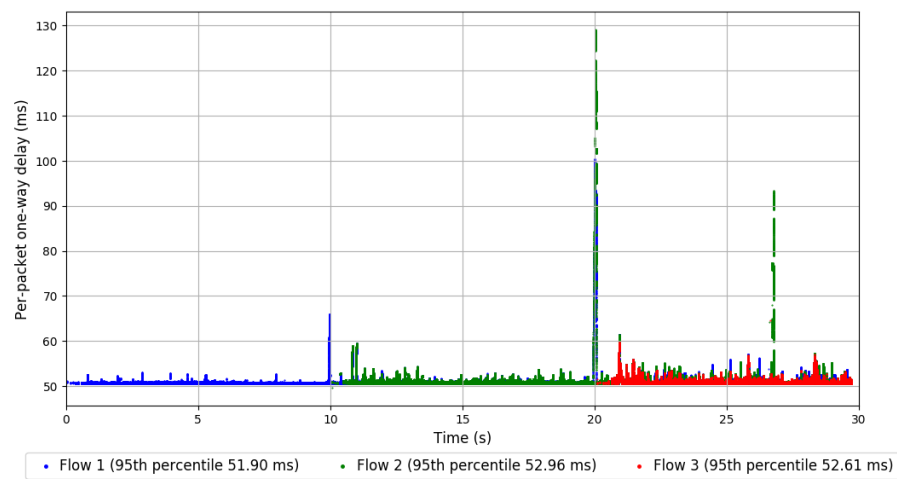
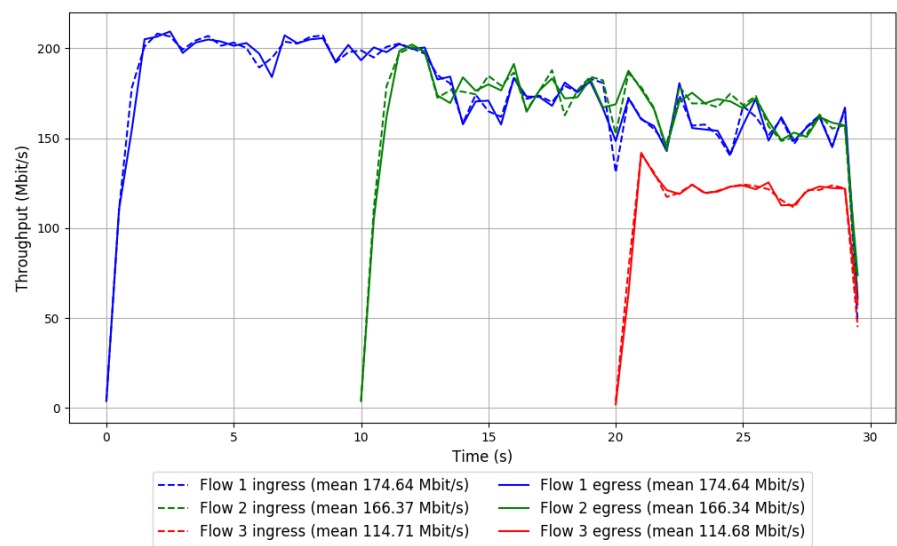
-- Flow 3:

Average throughput: 114.68 Mbit/s

95th percentile per-packet one-way delay: 52.612 ms

Loss rate: 0.03%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-17 02:23:09

End at: 2017-11-17 02:23:39

Below is generated by plot.py at 2017-11-17 05:56:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 340.39 Mbit/s

95th percentile per-packet one-way delay: 55.265 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 158.38 Mbit/s

95th percentile per-packet one-way delay: 55.144 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 161.00 Mbit/s

95th percentile per-packet one-way delay: 56.079 ms

Loss rate: 0.00%

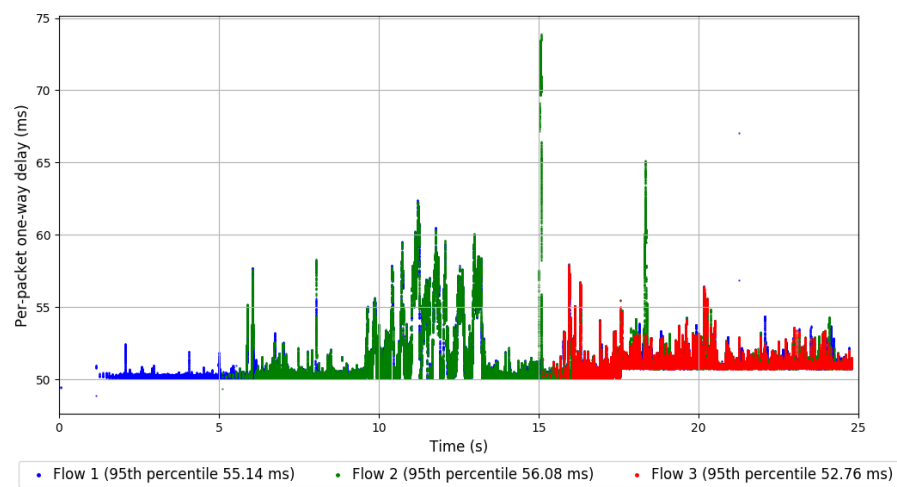
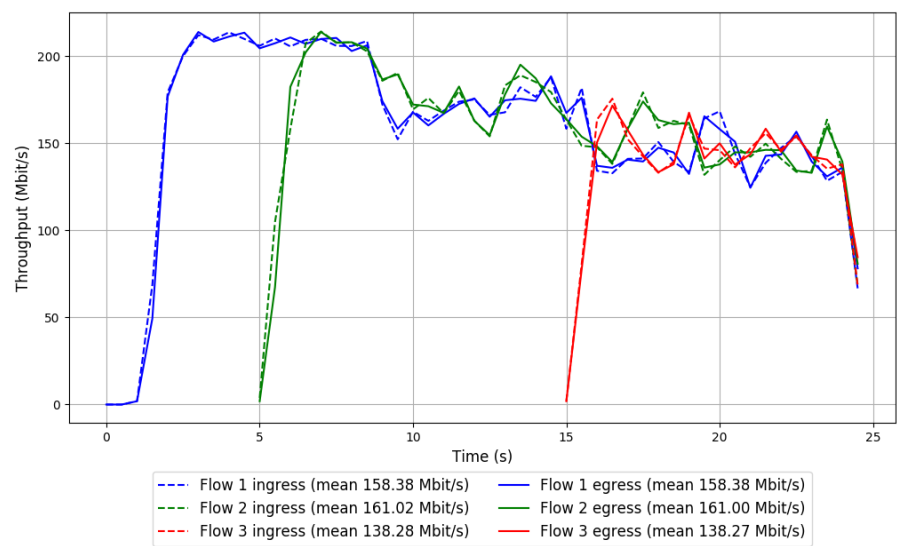
-- Flow 3:

Average throughput: 138.27 Mbit/s

95th percentile per-packet one-way delay: 52.762 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-11-17 02:35:21

End at: 2017-11-17 02:35:51

Below is generated by plot.py at 2017-11-17 05:57:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 357.09 Mbit/s

95th percentile per-packet one-way delay: 57.814 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 192.68 Mbit/s

95th percentile per-packet one-way delay: 55.006 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 174.81 Mbit/s

95th percentile per-packet one-way delay: 58.221 ms

Loss rate: 0.00%

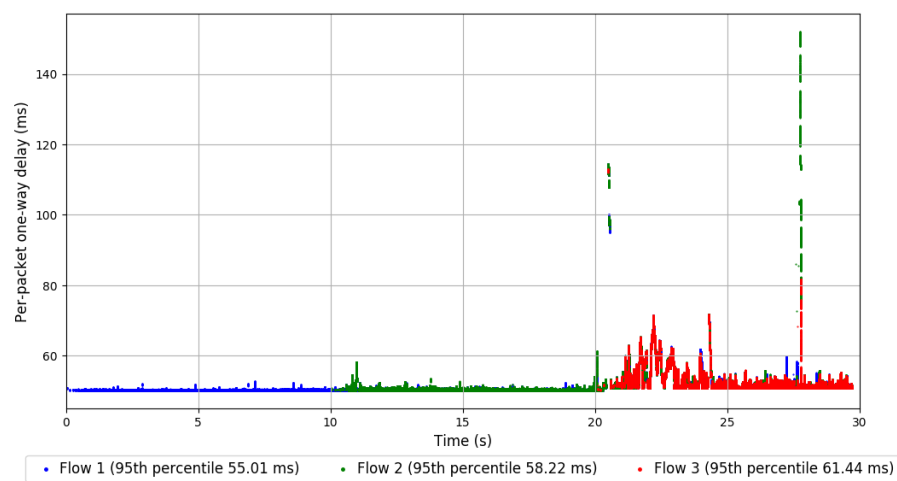
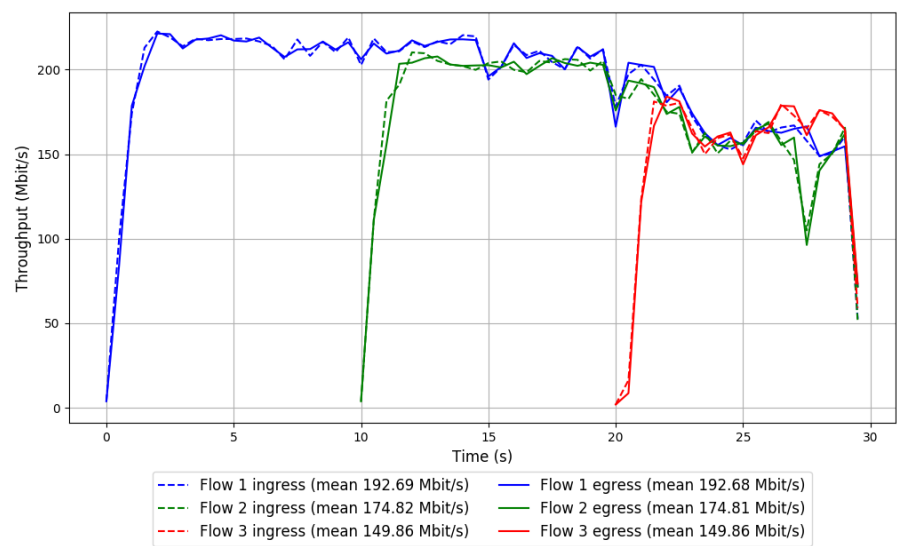
-- Flow 3:

Average throughput: 149.86 Mbit/s

95th percentile per-packet one-way delay: 61.442 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-17 02:47:38

End at: 2017-11-17 02:48:08

Below is generated by plot.py at 2017-11-17 05:58:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 354.95 Mbit/s

95th percentile per-packet one-way delay: 55.463 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 182.06 Mbit/s

95th percentile per-packet one-way delay: 54.179 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 182.28 Mbit/s

95th percentile per-packet one-way delay: 55.379 ms

Loss rate: 0.00%

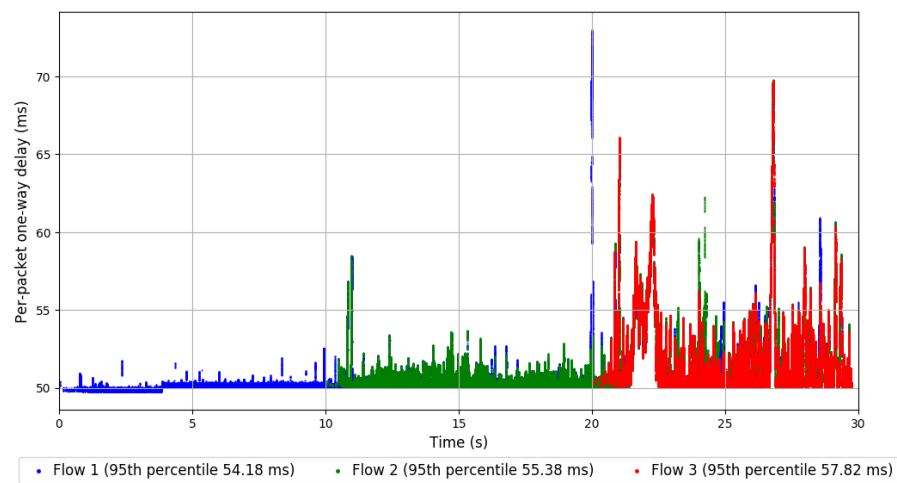
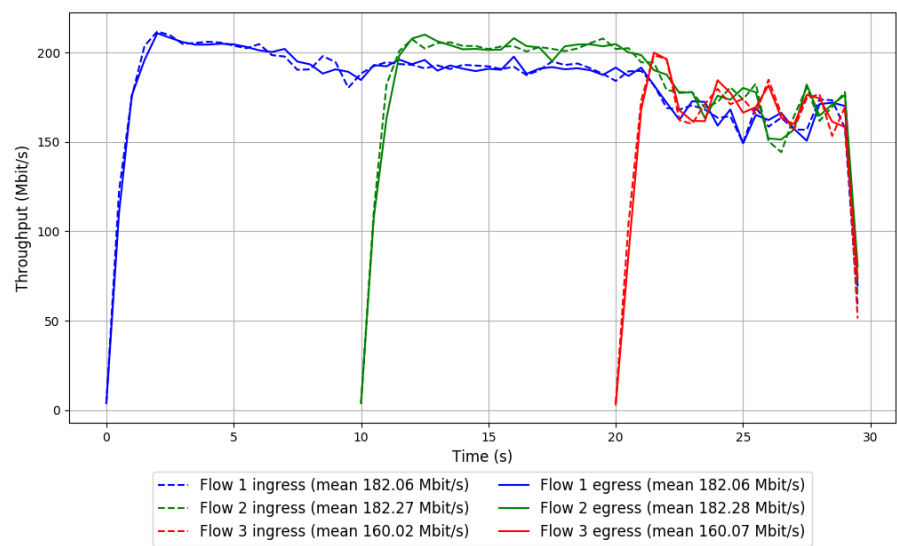
-- Flow 3:

Average throughput: 160.07 Mbit/s

95th percentile per-packet one-way delay: 57.821 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link

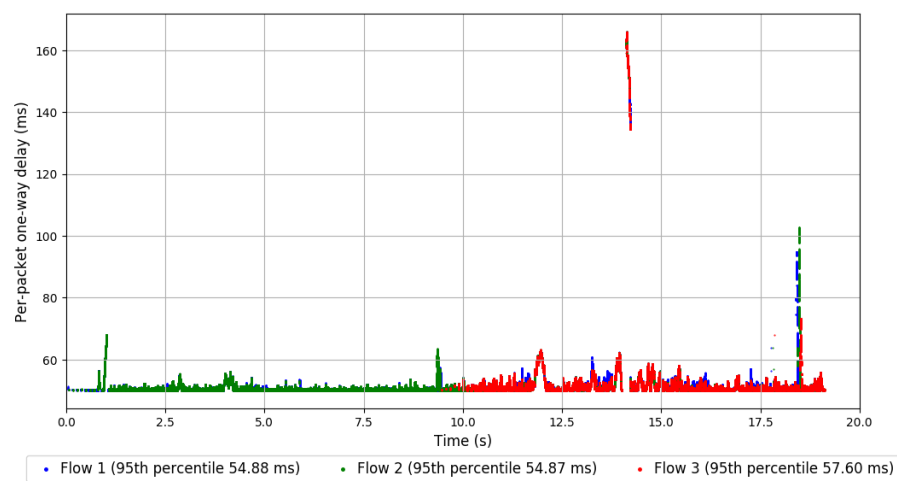
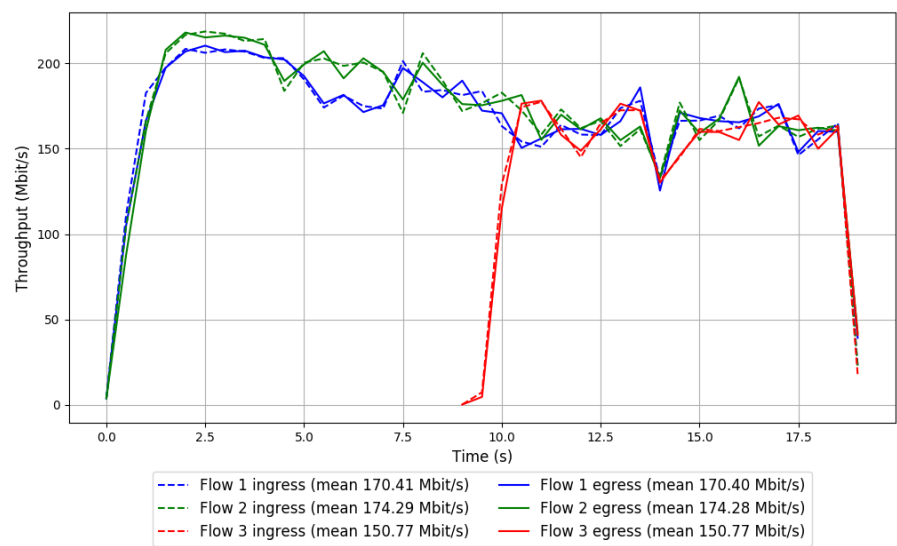


Run 7: Statistics of Indigo

Start at: 2017-11-17 02:59:47

End at: 2017-11-17 03:00:17

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-17 03:11:47

End at: 2017-11-17 03:12:17

Below is generated by plot.py at 2017-11-17 05:59:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 351.91 Mbit/s

95th percentile per-packet one-way delay: 53.545 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 189.84 Mbit/s

95th percentile per-packet one-way delay: 54.663 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 173.88 Mbit/s

95th percentile per-packet one-way delay: 52.545 ms

Loss rate: 0.00%

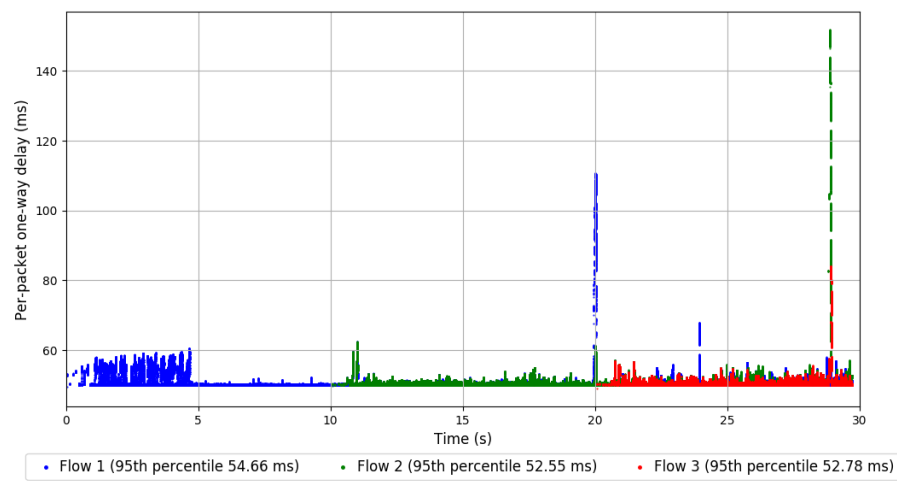
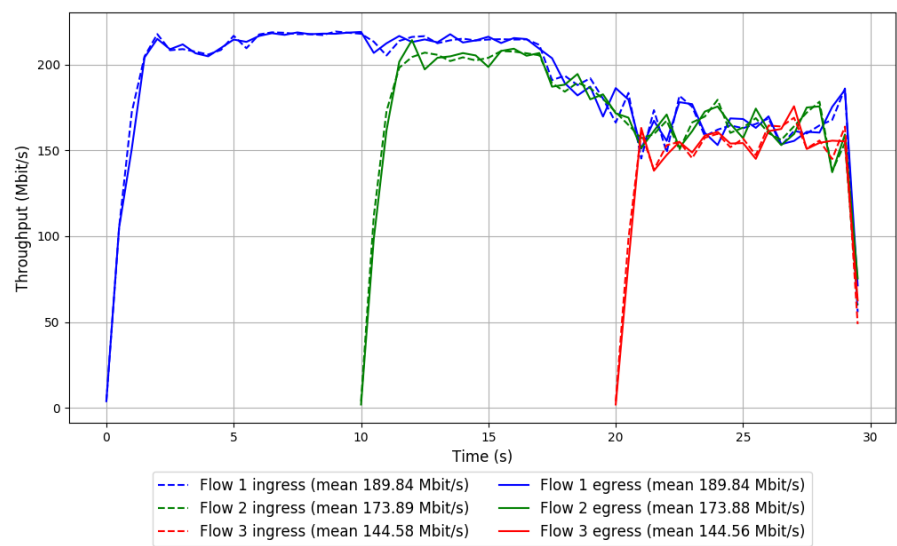
-- Flow 3:

Average throughput: 144.56 Mbit/s

95th percentile per-packet one-way delay: 52.782 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-17 03:24:02

End at: 2017-11-17 03:24:32

Below is generated by plot.py at 2017-11-17 06:00:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 348.41 Mbit/s

95th percentile per-packet one-way delay: 55.584 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 178.54 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 178.55 Mbit/s

95th percentile per-packet one-way delay: 55.612 ms

Loss rate: 0.00%

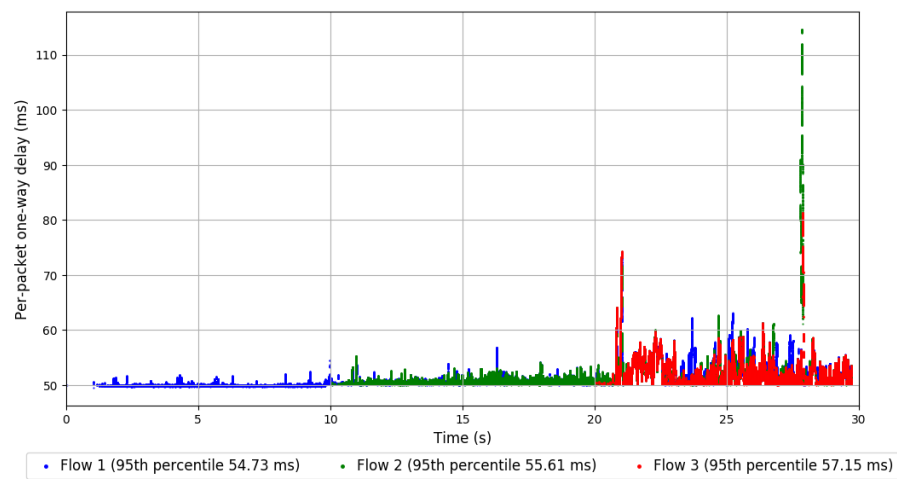
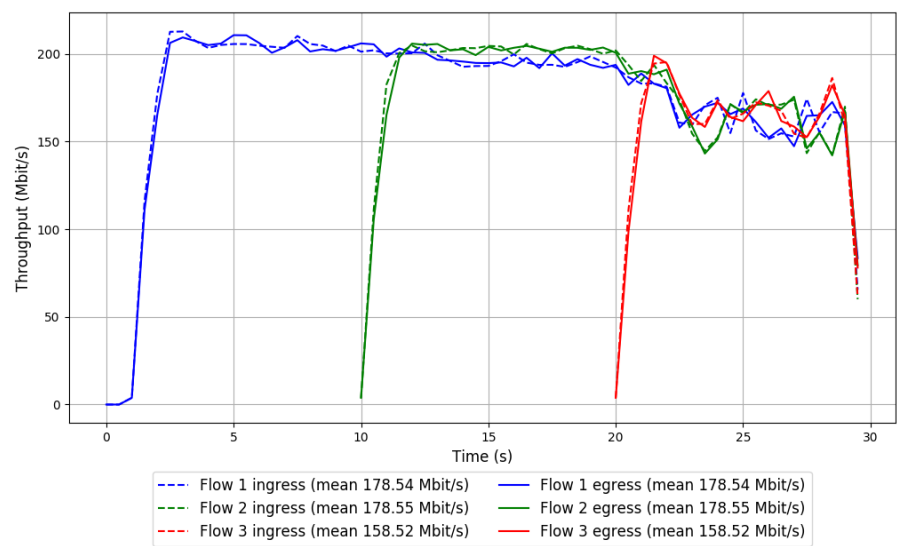
-- Flow 3:

Average throughput: 158.52 Mbit/s

95th percentile per-packet one-way delay: 57.154 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link

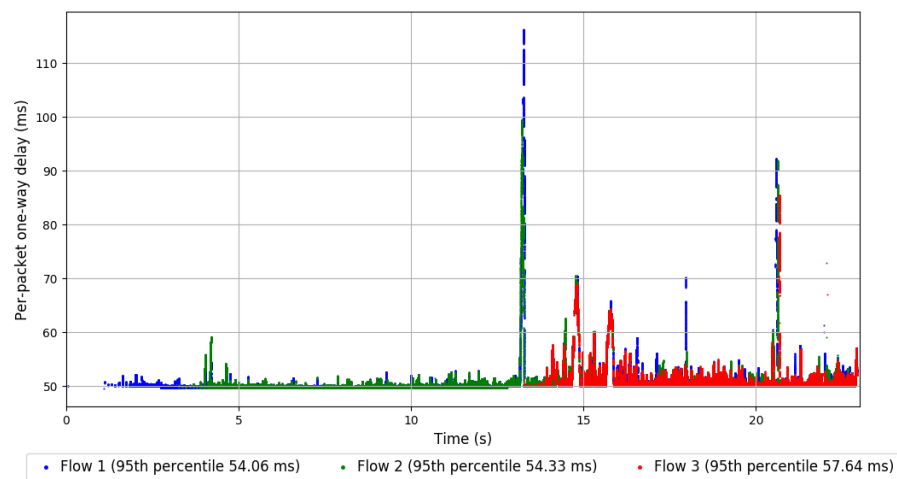
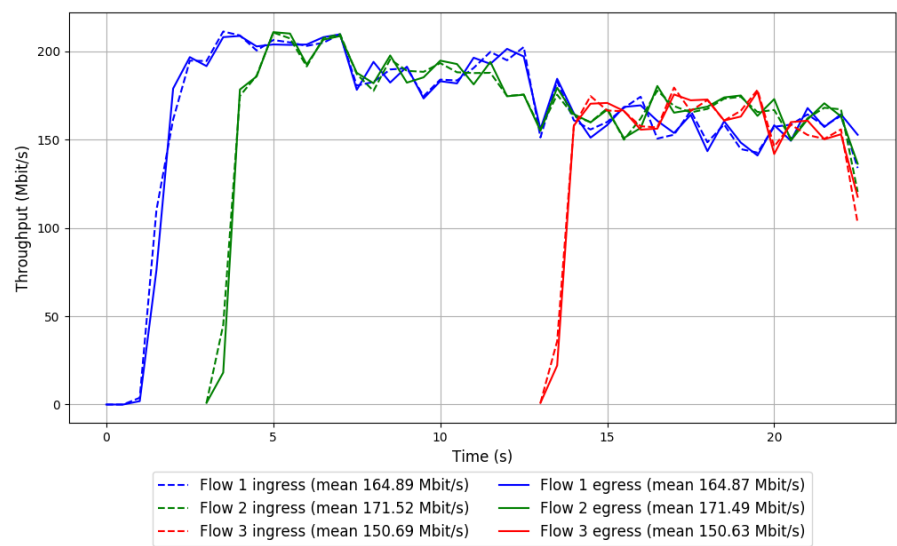


Run 10: Statistics of Indigo

Start at: 2017-11-17 03:36:12

End at: 2017-11-17 03:36:42

Run 10: Report of Indigo — Data Link

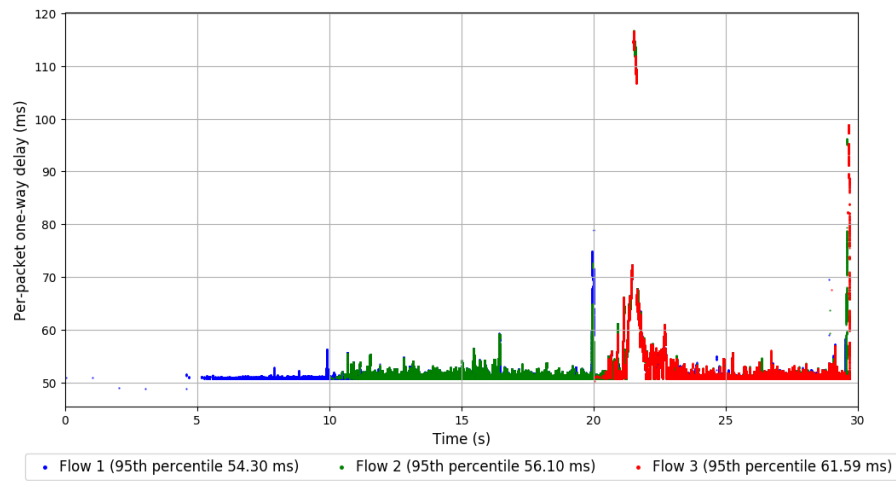
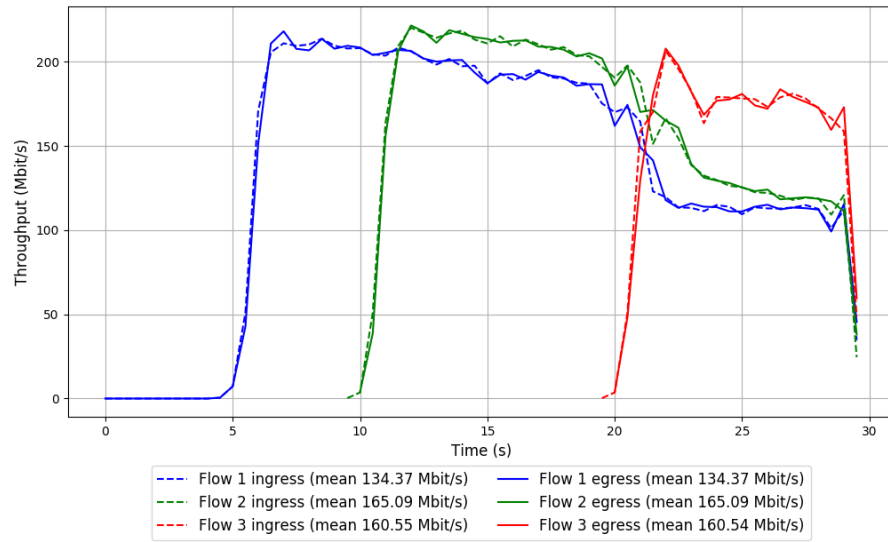


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-17 01:38:20
End at: 2017-11-17 01:38:50

# Below is generated by plot.py at 2017-11-17 06:01:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 296.06 Mbit/s
95th percentile per-packet one-way delay: 56.205 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 134.37 Mbit/s
95th percentile per-packet one-way delay: 54.297 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 165.09 Mbit/s
95th percentile per-packet one-way delay: 56.098 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 160.54 Mbit/s
95th percentile per-packet one-way delay: 61.588 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link

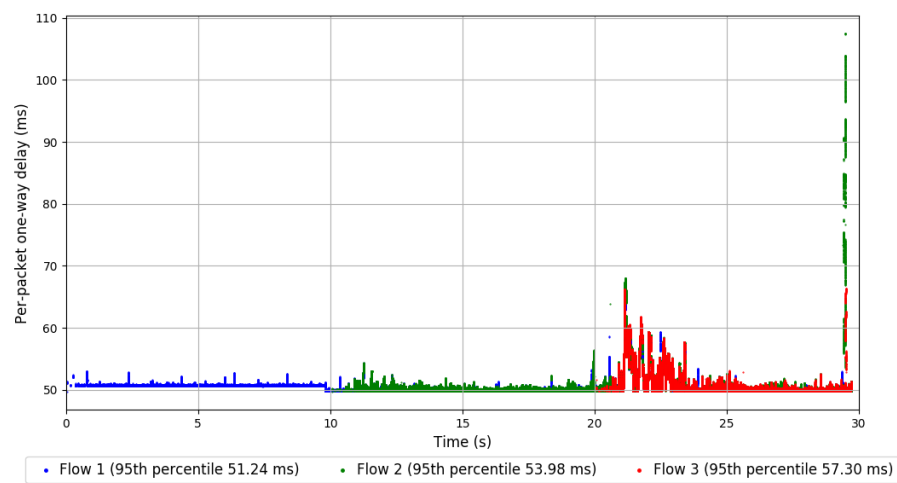
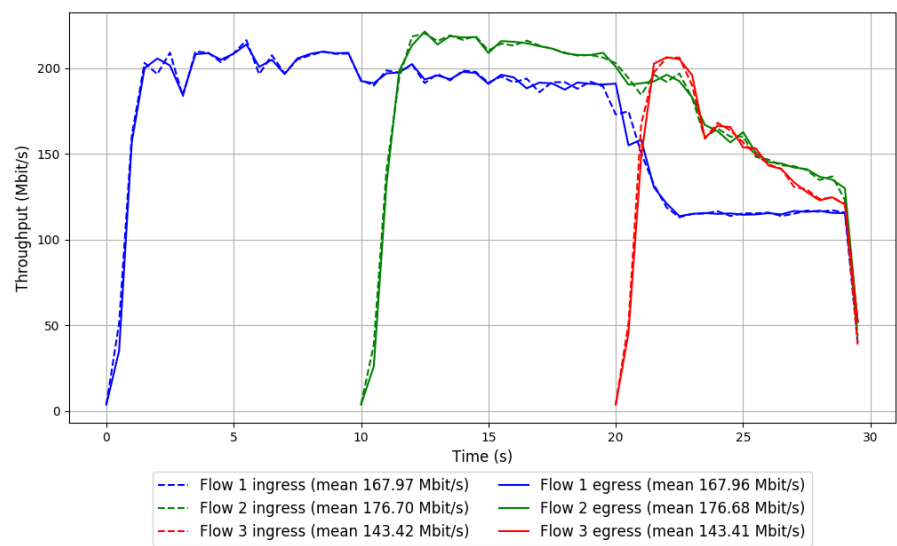


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-17 01:50:22
End at: 2017-11-17 01:50:52

# Below is generated by plot.py at 2017-11-17 06:02:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 331.75 Mbit/s
95th percentile per-packet one-way delay: 53.640 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 167.96 Mbit/s
95th percentile per-packet one-way delay: 51.238 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 176.68 Mbit/s
95th percentile per-packet one-way delay: 53.980 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 143.41 Mbit/s
95th percentile per-packet one-way delay: 57.303 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-calib — Data Link

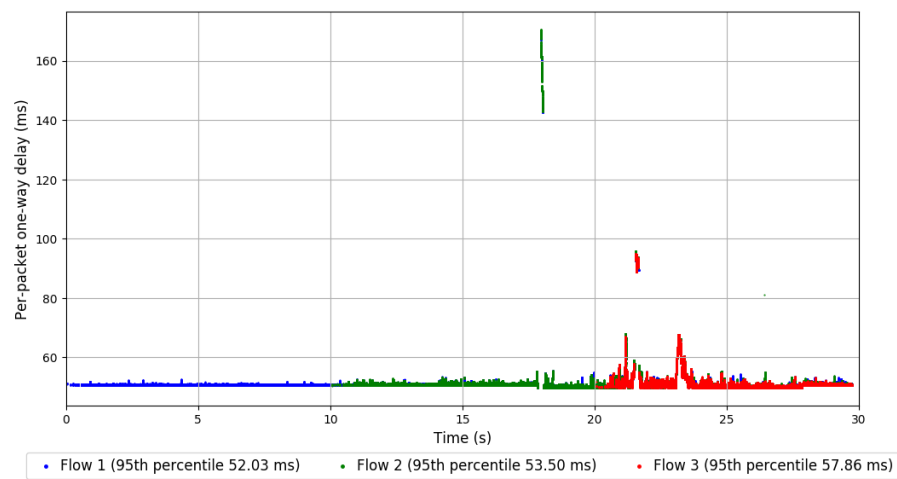
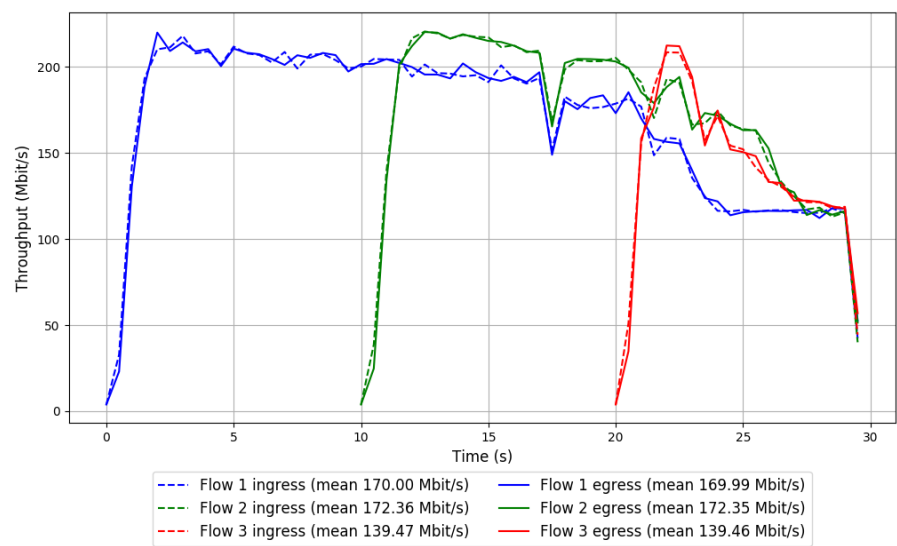


```
Run 3: Statistics of Indigo-calib

Start at: 2017-11-17 02:02:24
End at: 2017-11-17 02:02:54

# Below is generated by plot.py at 2017-11-17 06:02:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 329.67 Mbit/s
95th percentile per-packet one-way delay: 53.194 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 169.99 Mbit/s
95th percentile per-packet one-way delay: 52.032 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 172.35 Mbit/s
95th percentile per-packet one-way delay: 53.496 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 139.46 Mbit/s
95th percentile per-packet one-way delay: 57.863 ms
Loss rate: 0.00%
```


Run 3: Report of Indigo-calib — Data Link

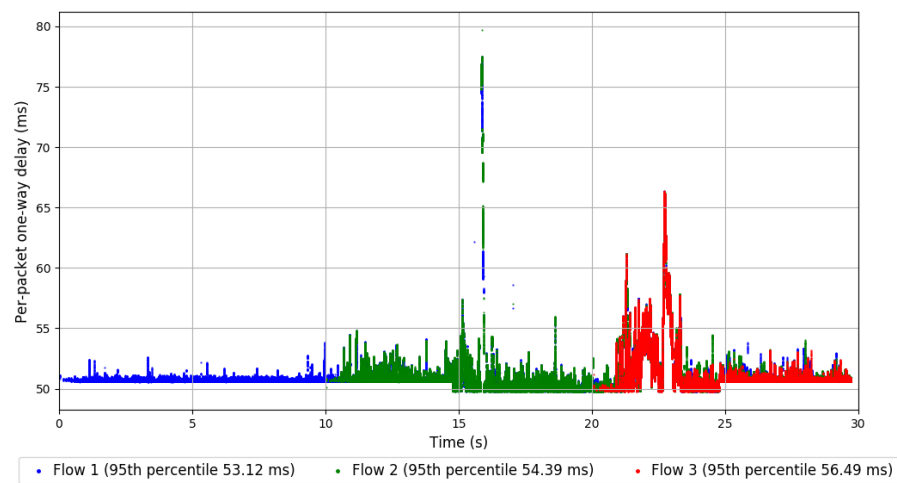
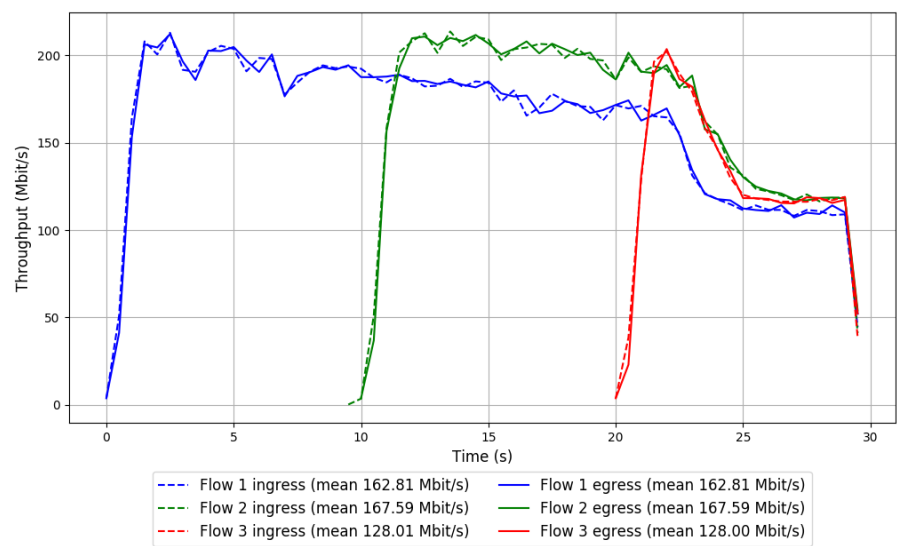


```
Run 4: Statistics of Indigo-calib

Start at: 2017-11-17 02:14:27
End at: 2017-11-17 02:14:57

# Below is generated by plot.py at 2017-11-17 06:02:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 315.56 Mbit/s
95th percentile per-packet one-way delay: 54.331 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 162.81 Mbit/s
95th percentile per-packet one-way delay: 53.118 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 167.59 Mbit/s
95th percentile per-packet one-way delay: 54.386 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 128.00 Mbit/s
95th percentile per-packet one-way delay: 56.490 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-calib — Data Link

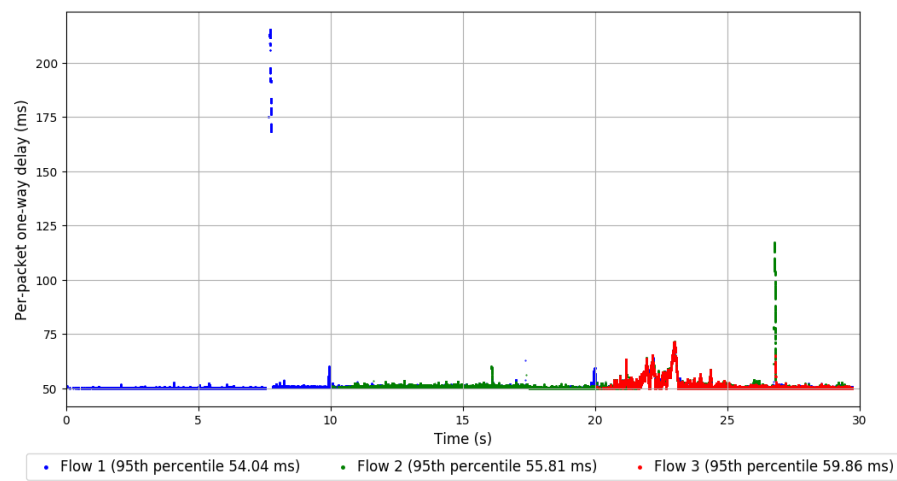
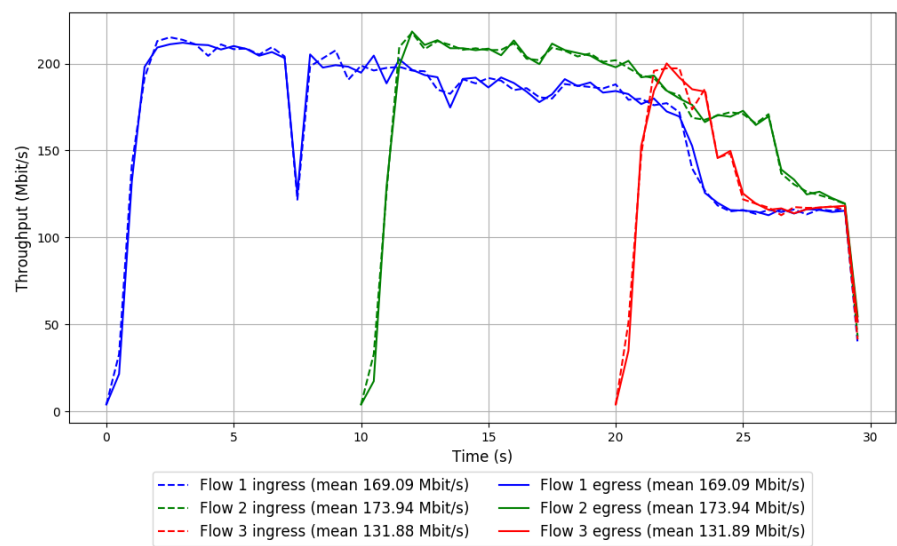


```
Run 5: Statistics of Indigo-calib

Start at: 2017-11-17 02:26:34
End at: 2017-11-17 02:27:04

# Below is generated by plot.py at 2017-11-17 06:03:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 327.17 Mbit/s
95th percentile per-packet one-way delay: 55.989 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 169.09 Mbit/s
95th percentile per-packet one-way delay: 54.041 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 173.94 Mbit/s
95th percentile per-packet one-way delay: 55.806 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 131.89 Mbit/s
95th percentile per-packet one-way delay: 59.857 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-calib — Data Link

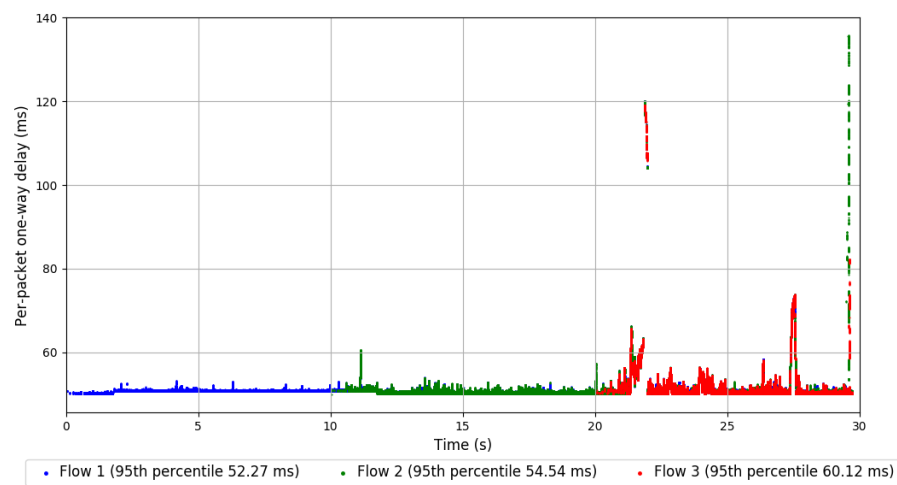
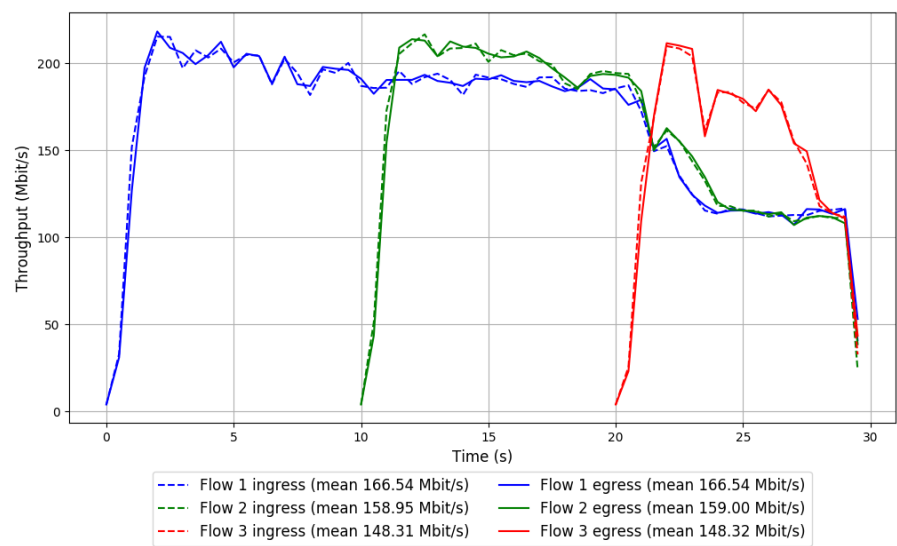


```
Run 6: Statistics of Indigo-calib

Start at: 2017-11-17 02:38:50
End at: 2017-11-17 02:39:20

# Below is generated by plot.py at 2017-11-17 06:03:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 320.22 Mbit/s
95th percentile per-packet one-way delay: 54.404 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 166.54 Mbit/s
95th percentile per-packet one-way delay: 52.273 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 159.00 Mbit/s
95th percentile per-packet one-way delay: 54.537 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 148.32 Mbit/s
95th percentile per-packet one-way delay: 60.118 ms
Loss rate: 0.00%
```

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-11-17 02:51:05

End at: 2017-11-17 02:51:35

Below is generated by plot.py at 2017-11-17 06:04:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 324.84 Mbit/s

95th percentile per-packet one-way delay: 54.688 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 170.63 Mbit/s

95th percentile per-packet one-way delay: 51.417 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 169.50 Mbit/s

95th percentile per-packet one-way delay: 55.342 ms

Loss rate: 0.00%

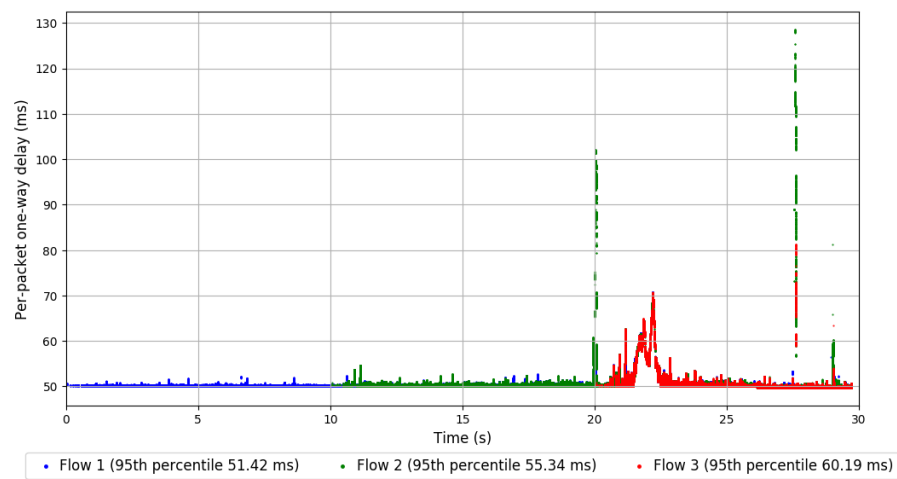
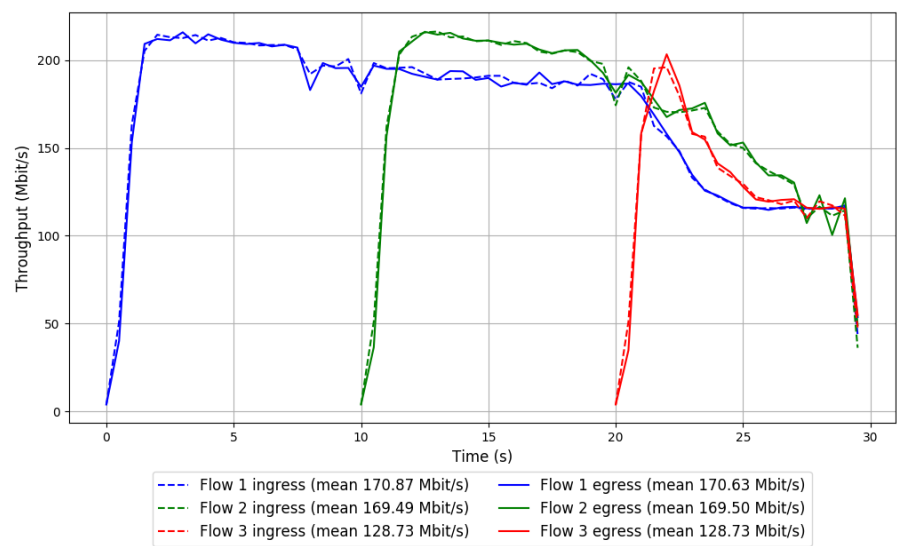
-- Flow 3:

Average throughput: 128.73 Mbit/s

95th percentile per-packet one-way delay: 60.185 ms

Loss rate: 0.00%

Run 7: Report of Indigo-calib — Data Link

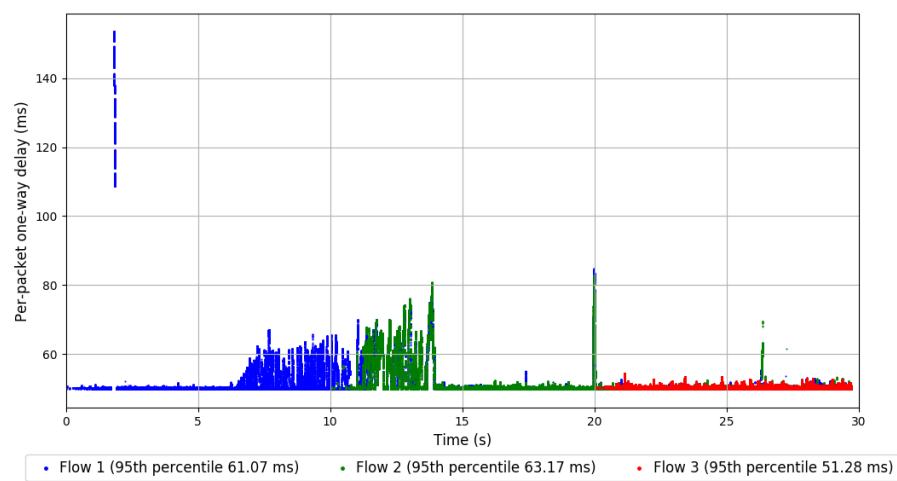
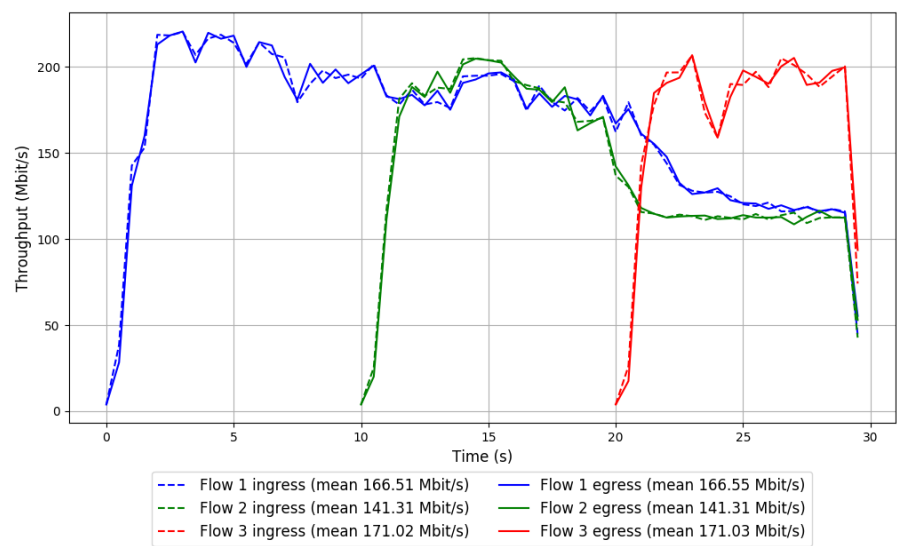


```
Run 8: Statistics of Indigo-calib

Start at: 2017-11-17 03:03:10
End at: 2017-11-17 03:03:40

# Below is generated by plot.py at 2017-11-17 06:04:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 315.92 Mbit/s
95th percentile per-packet one-way delay: 60.660 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 166.55 Mbit/s
95th percentile per-packet one-way delay: 61.066 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 141.31 Mbit/s
95th percentile per-packet one-way delay: 63.167 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 171.03 Mbit/s
95th percentile per-packet one-way delay: 51.281 ms
Loss rate: 0.00%
```

Run 8: Report of Indigo-calib — Data Link

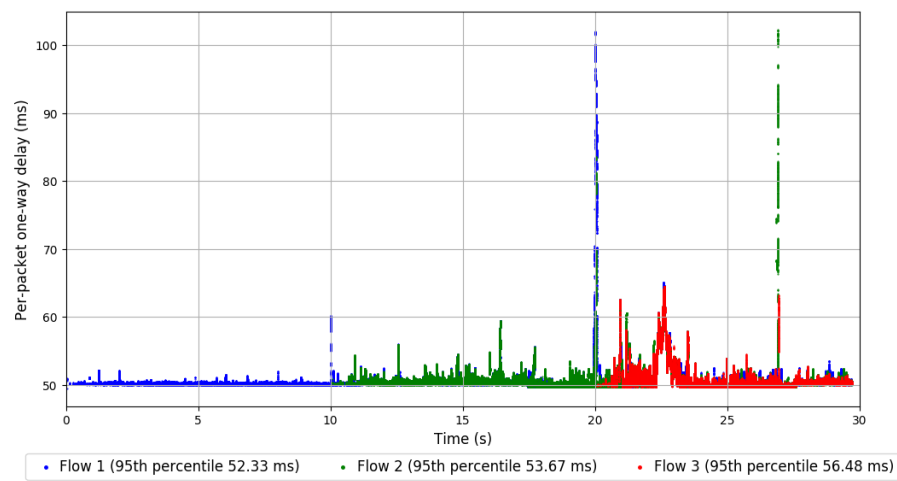
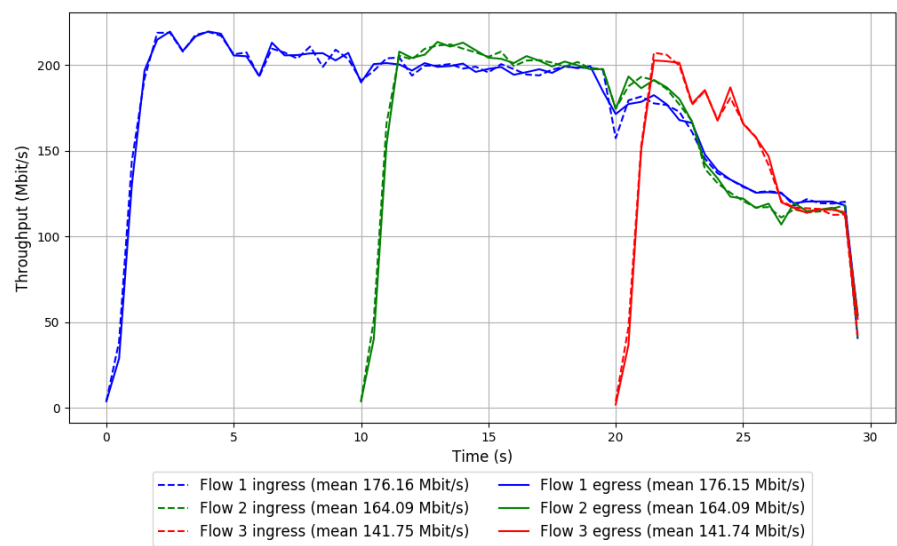


```
Run 9: Statistics of Indigo-calib

Start at: 2017-11-17 03:15:14
End at: 2017-11-17 03:15:44

# Below is generated by plot.py at 2017-11-17 06:04:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 330.91 Mbit/s
95th percentile per-packet one-way delay: 53.317 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 176.15 Mbit/s
95th percentile per-packet one-way delay: 52.328 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 164.09 Mbit/s
95th percentile per-packet one-way delay: 53.675 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 141.74 Mbit/s
95th percentile per-packet one-way delay: 56.476 ms
Loss rate: 0.00%
```

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-17 03:27:31

End at: 2017-11-17 03:28:01

Below is generated by plot.py at 2017-11-17 06:04:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 329.57 Mbit/s

95th percentile per-packet one-way delay: 58.558 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 176.03 Mbit/s

95th percentile per-packet one-way delay: 54.563 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 162.83 Mbit/s

95th percentile per-packet one-way delay: 58.675 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 141.97 Mbit/s

95th percentile per-packet one-way delay: 63.121 ms

Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

