

Pantheon Report

Generated at 2017-12-06 09:49:10 (UTC).

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

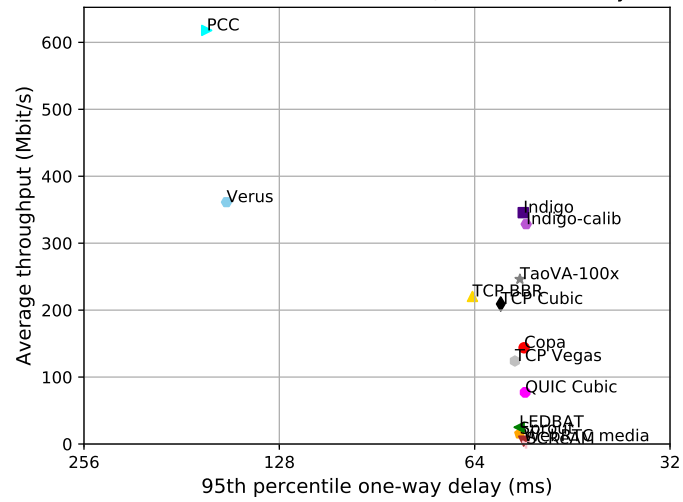
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

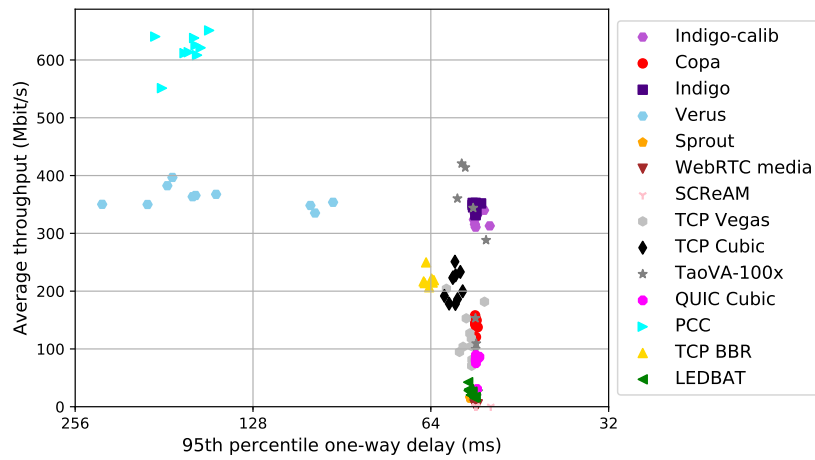
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737
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-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



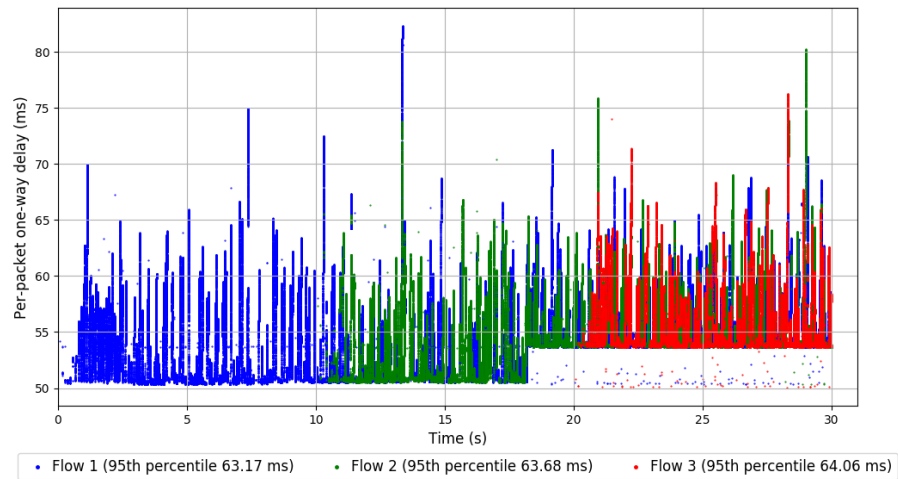
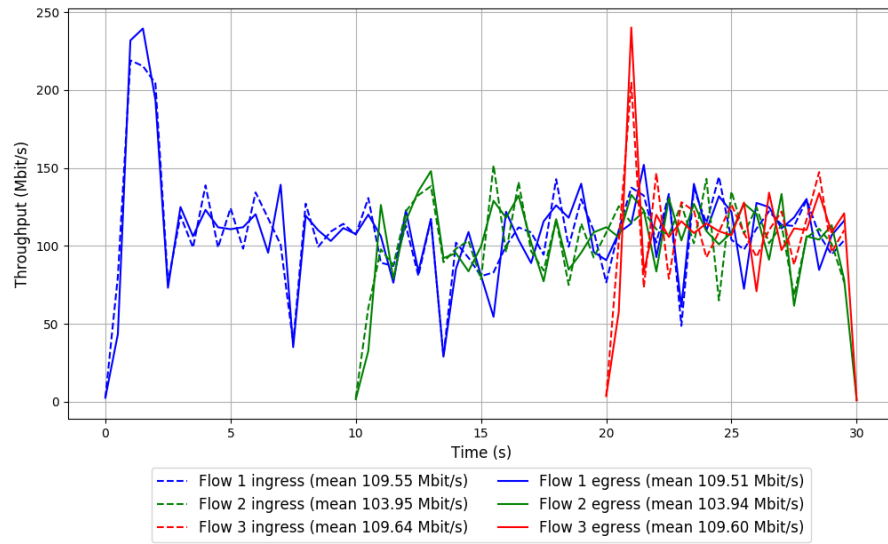
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	7	108.75	108.72	119.12	63.88	64.62	65.43	0.05	0.01	0.03
TCP Cubic	10	101.56	111.56	100.76	58.25	57.95	56.65	0.09	0.04	0.20
LEDBAT	10	13.27	13.15	9.02	54.69	54.39	54.34	0.10	0.35	0.05
PCC	9	558.26	57.26	65.61	165.82	164.15	150.45	1.68	1.83	2.49
QUIC Cubic	9	46.36	34.81	22.88	51.79	52.19	52.56	0.00	0.00	0.02
SCReAM	8	0.22	0.21	0.22	52.41	52.52	52.18	0.00	0.00	0.00
WebRTC media	10	2.25	1.42	0.58	52.81	52.92	52.88	0.00	0.00	0.00
Sprout	10	7.77	7.74	7.23	54.55	54.38	54.04	0.07	0.06	0.02
TaoVA-100x	9	126.87	128.76	130.07	53.30	54.87	56.10	0.02	0.07	0.01
TCP Vegas	10	59.17	62.88	69.31	54.96	55.60	54.68	0.01	0.15	0.04
Verus	10	222.67	149.84	124.10	143.45	134.93	149.80	0.76	1.02	1.10
Copa	10	77.83	69.14	75.87	53.38	53.71	53.11	0.00	0.00	0.02
Indigo	10	182.32	172.41	151.08	53.63	53.89	53.44	0.01	0.01	0.02
Indigo-calib	10	171.84	164.30	147.07	53.34	53.41	52.42	0.00	0.03	0.02

```
Run 1: Statistics of TCP BBR

Start at: 2017-12-06 05:38:18
End at: 2017-12-06 05:38:48

# Below is generated by plot.py at 2017-12-06 08:50:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 214.97 Mbit/s
95th percentile per-packet one-way delay: 63.545 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 109.51 Mbit/s
95th percentile per-packet one-way delay: 63.175 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 103.94 Mbit/s
95th percentile per-packet one-way delay: 63.682 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 109.60 Mbit/s
95th percentile per-packet one-way delay: 64.065 ms
Loss rate: 0.01%
```


Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-12-06 05:50:19

End at: 2017-12-06 05:50:49

Below is generated by plot.py at 2017-12-06 08:50:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 216.81 Mbit/s

95th percentile per-packet one-way delay: 65.813 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 111.91 Mbit/s

95th percentile per-packet one-way delay: 64.462 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 101.07 Mbit/s

95th percentile per-packet one-way delay: 66.919 ms

Loss rate: 0.01%

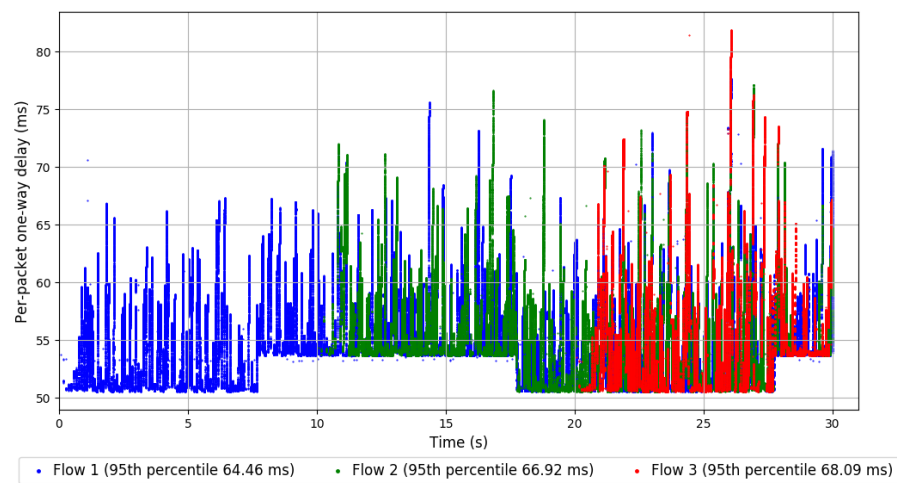
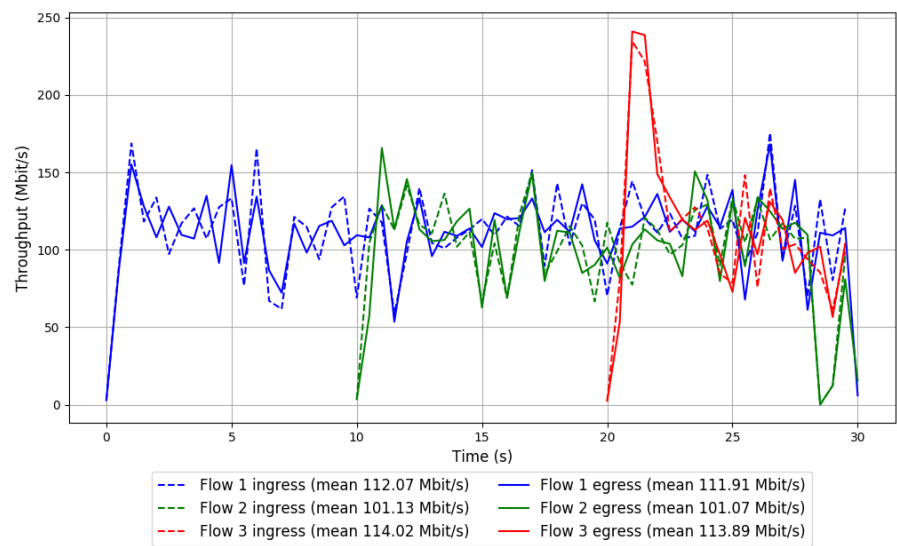
-- Flow 3:

Average throughput: 113.89 Mbit/s

95th percentile per-packet one-way delay: 68.094 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link

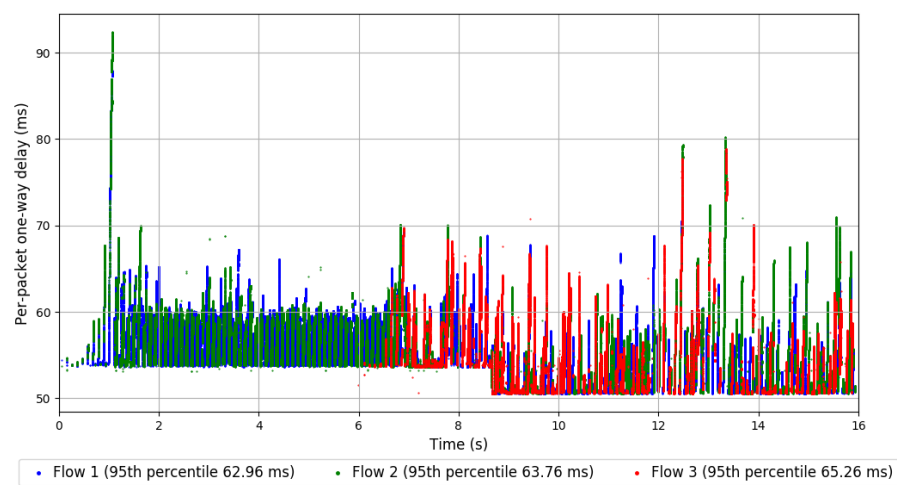
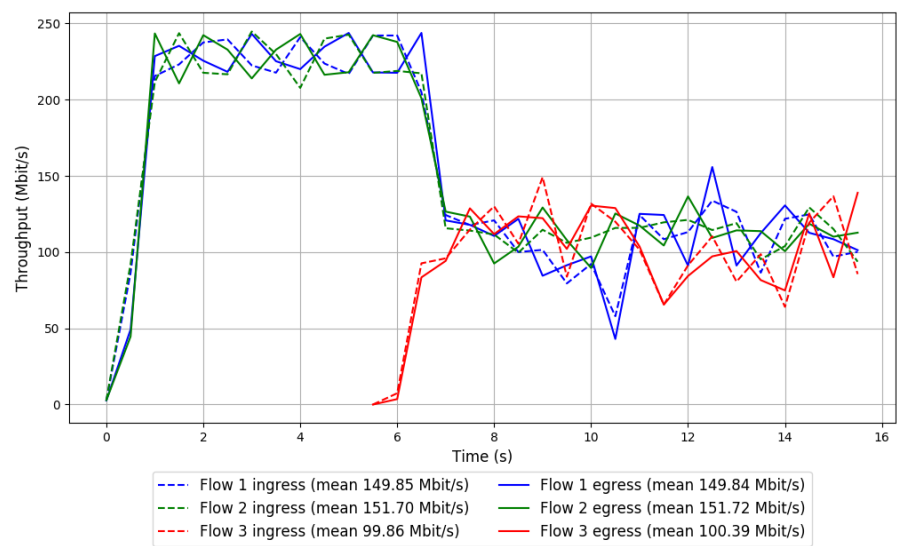


Run 3: Statistics of TCP BBR

Start at: 2017-12-06 06:02:44

End at: 2017-12-06 06:03:14

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-12-06 06:15:00

End at: 2017-12-06 06:15:30

Below is generated by plot.py at 2017-12-06 08:50:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 219.07 Mbit/s

95th percentile per-packet one-way delay: 63.249 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 104.69 Mbit/s

95th percentile per-packet one-way delay: 63.401 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 117.85 Mbit/s

95th percentile per-packet one-way delay: 63.049 ms

Loss rate: 0.01%

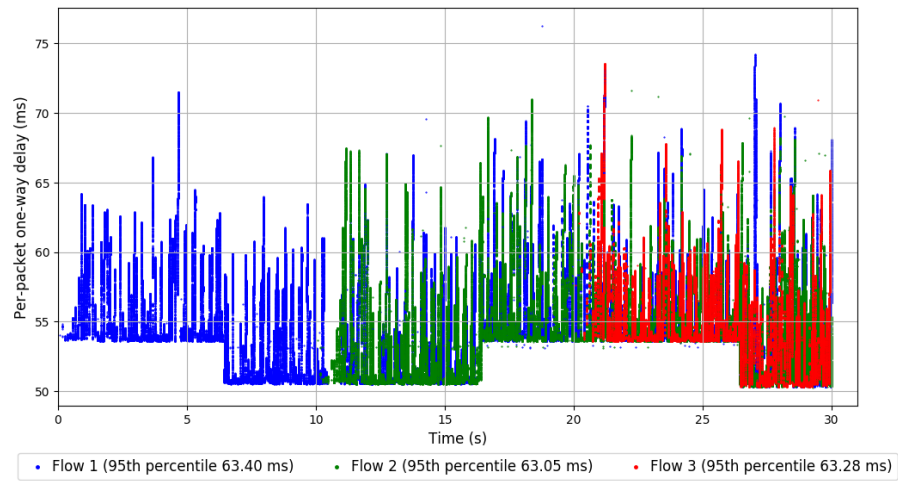
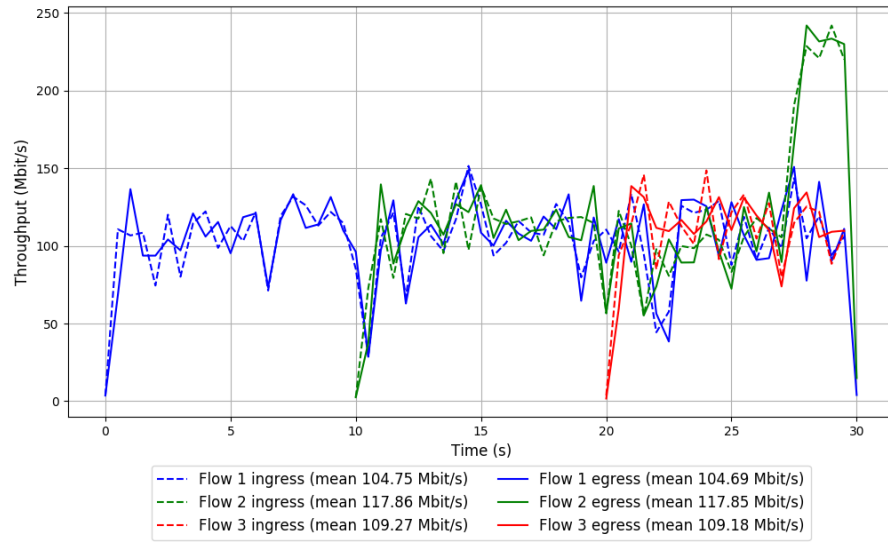
-- Flow 3:

Average throughput: 109.18 Mbit/s

95th percentile per-packet one-way delay: 63.279 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-12-06 06:27:14

End at: 2017-12-06 06:27:44

Below is generated by plot.py at 2017-12-06 08:50:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 206.80 Mbit/s

95th percentile per-packet one-way delay: 64.413 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 105.94 Mbit/s

95th percentile per-packet one-way delay: 63.834 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 102.02 Mbit/s

95th percentile per-packet one-way delay: 64.852 ms

Loss rate: 0.00%

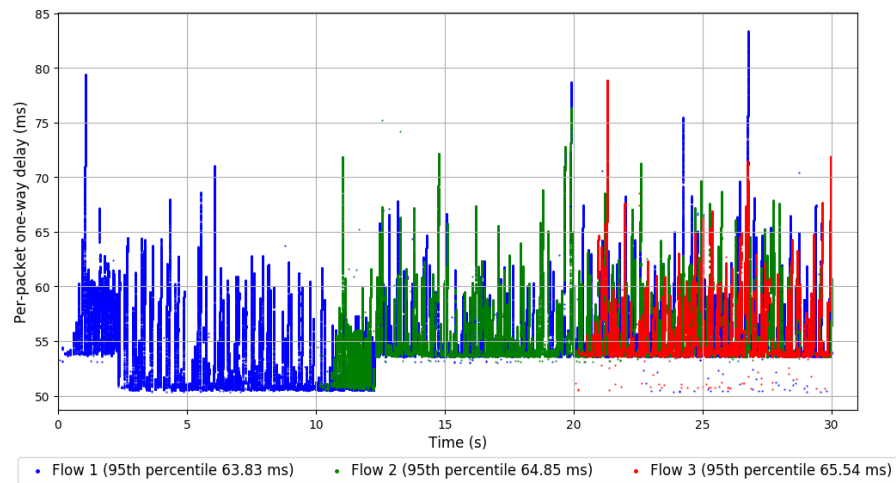
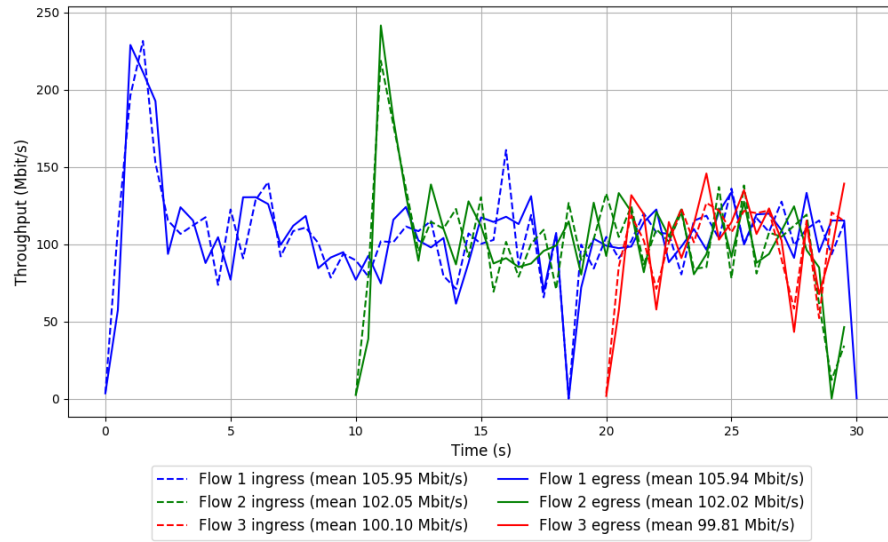
-- Flow 3:

Average throughput: 99.81 Mbit/s

95th percentile per-packet one-way delay: 65.539 ms

Loss rate: 0.08%

Run 5: Report of TCP BBR — Data Link

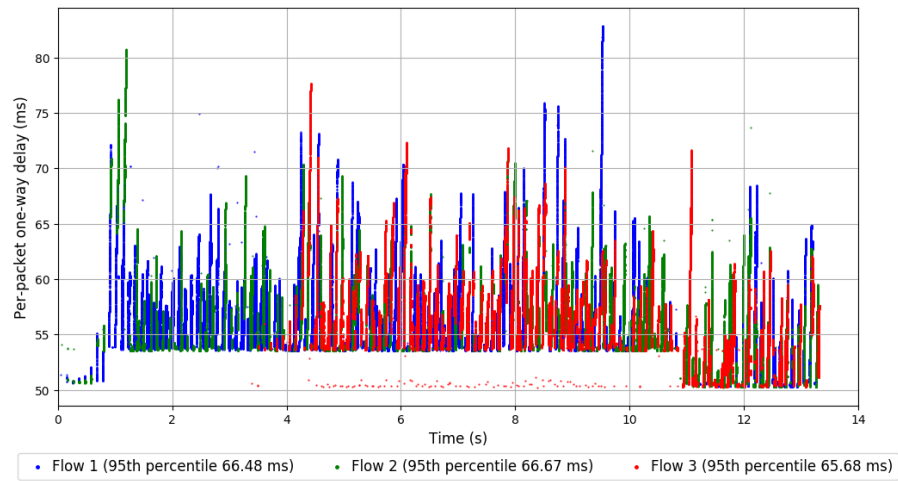
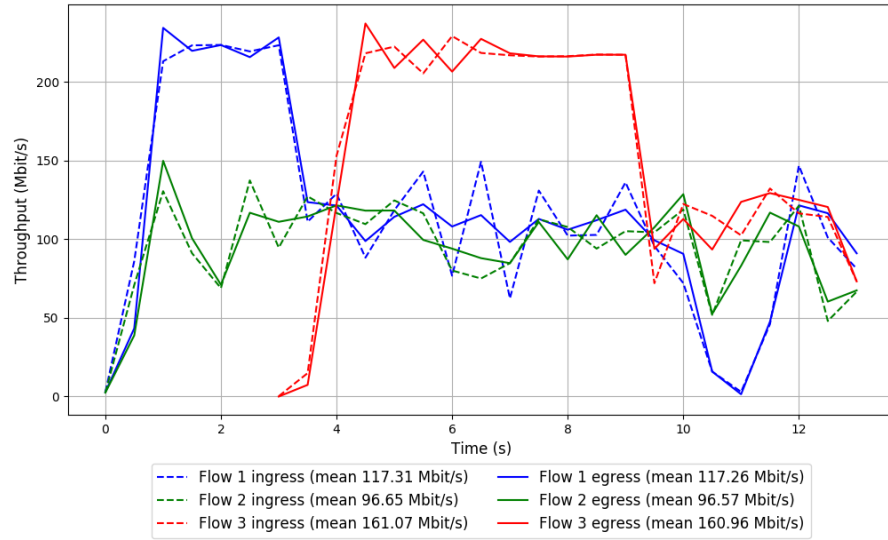


Run 6: Statistics of TCP BBR

Start at: 2017-12-06 06:39:19

End at: 2017-12-06 06:39:49

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-12-06 06:51:33

End at: 2017-12-06 06:52:03

Below is generated by plot.py at 2017-12-06 08:50:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 213.96 Mbit/s

95th percentile per-packet one-way delay: 65.519 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 111.67 Mbit/s

95th percentile per-packet one-way delay: 63.960 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 99.29 Mbit/s

95th percentile per-packet one-way delay: 66.489 ms

Loss rate: 0.00%

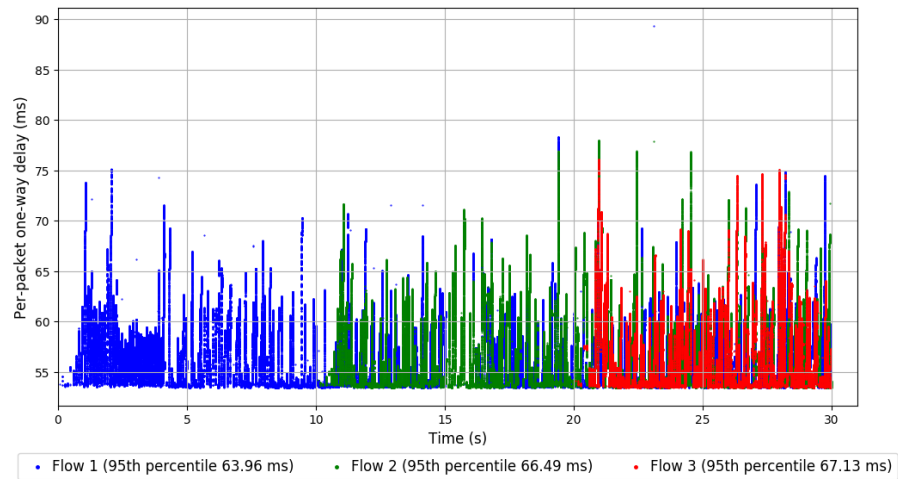
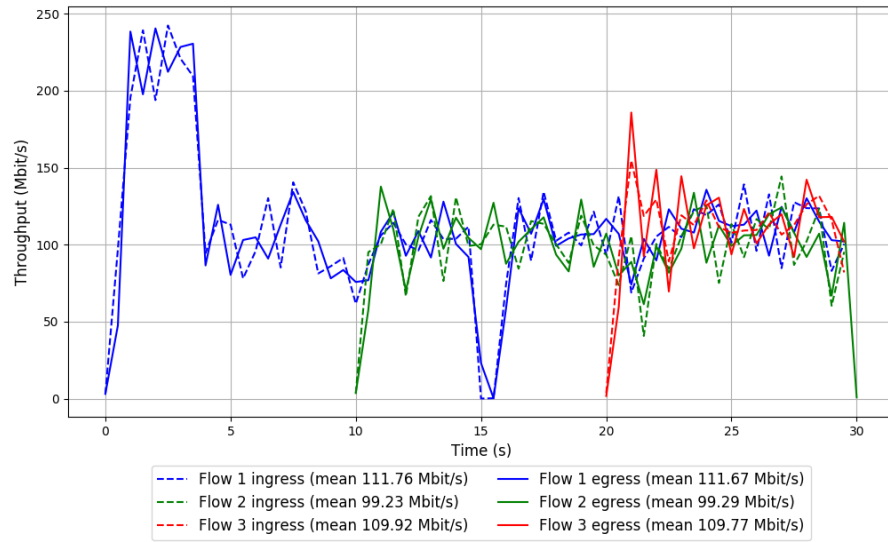
-- Flow 3:

Average throughput: 109.77 Mbit/s

95th percentile per-packet one-way delay: 67.131 ms

Loss rate: 0.14%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-12-06 07:03:31

End at: 2017-12-06 07:04:01

Below is generated by plot.py at 2017-12-06 08:50:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 221.72 Mbit/s

95th percentile per-packet one-way delay: 63.810 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 105.28 Mbit/s

95th percentile per-packet one-way delay: 64.254 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 110.14 Mbit/s

95th percentile per-packet one-way delay: 63.568 ms

Loss rate: 0.03%

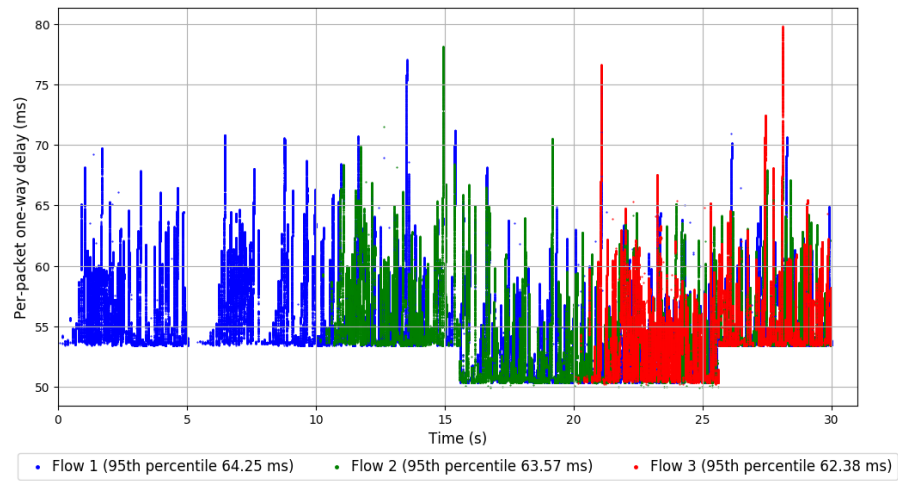
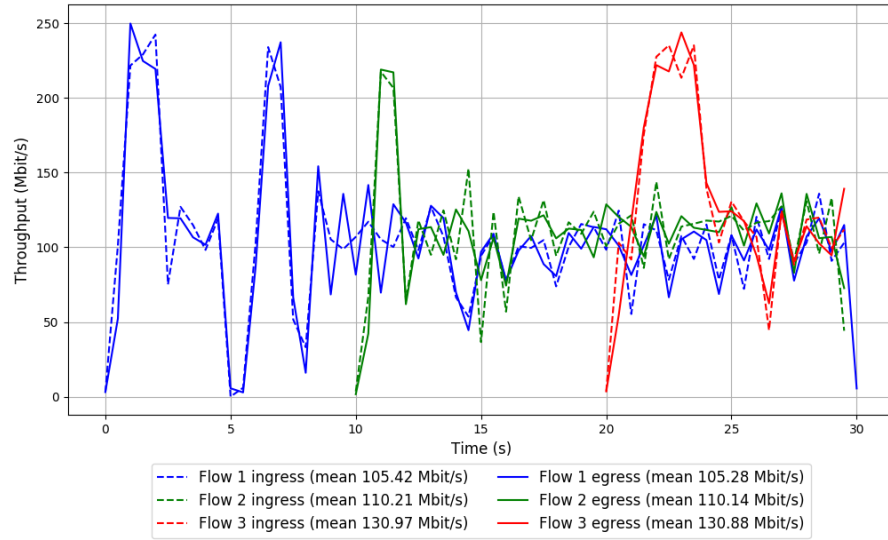
-- Flow 3:

Average throughput: 130.88 Mbit/s

95th percentile per-packet one-way delay: 62.375 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link

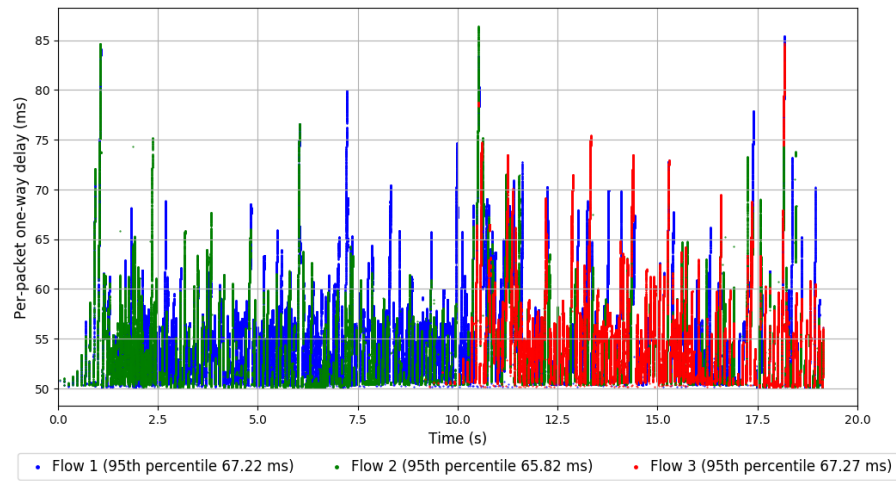
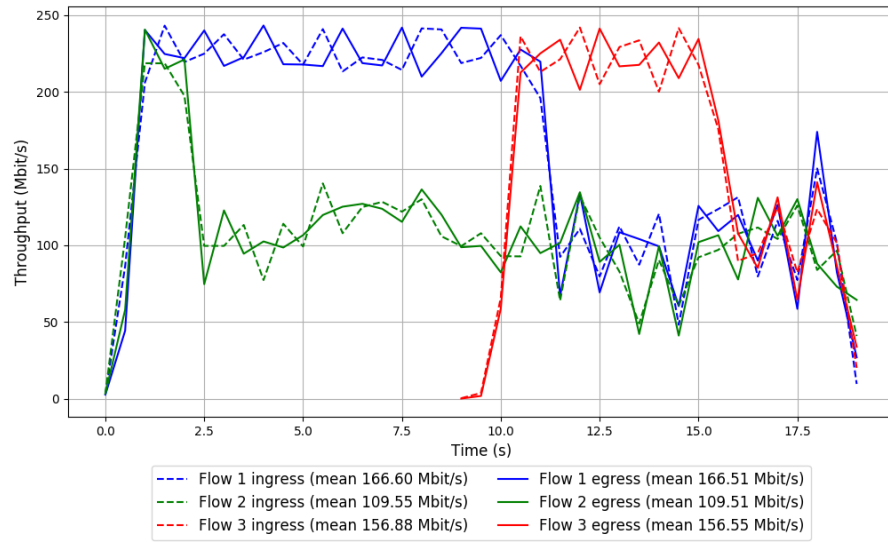


Run 9: Statistics of TCP BBR

Start at: 2017-12-06 07:16:08

End at: 2017-12-06 07:16:38

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-12-06 07:28:06

End at: 2017-12-06 07:28:36

Below is generated by plot.py at 2017-12-06 08:53:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 249.79 Mbit/s

95th percentile per-packet one-way delay: 65.187 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 112.22 Mbit/s

95th percentile per-packet one-way delay: 64.095 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 126.71 Mbit/s

95th percentile per-packet one-way delay: 63.802 ms

Loss rate: 0.00%

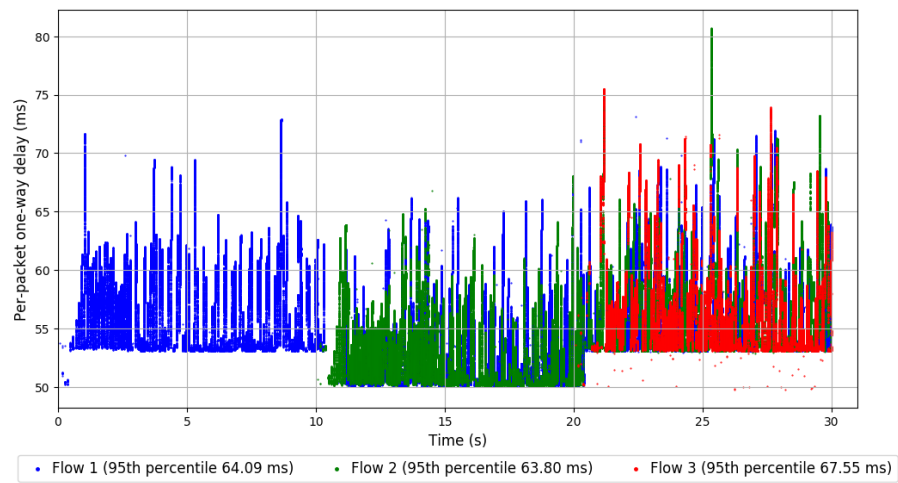
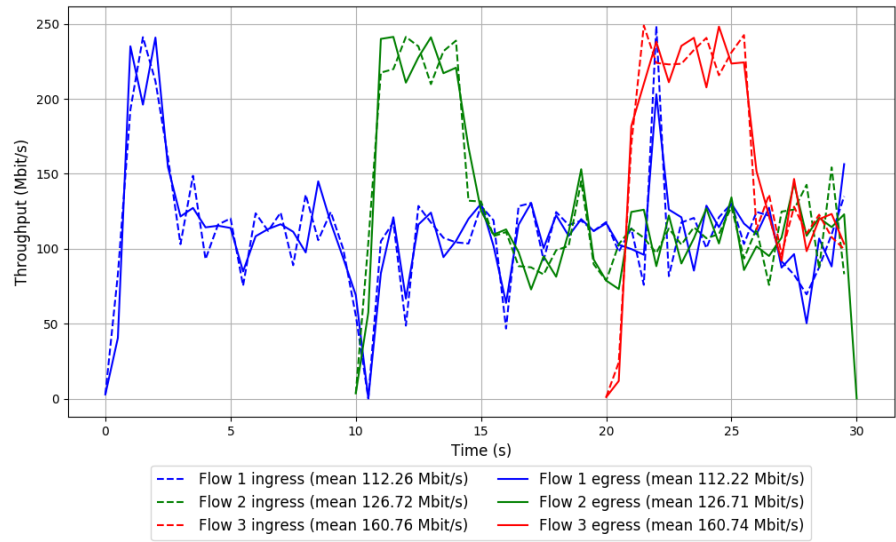
-- Flow 3:

Average throughput: 160.74 Mbit/s

95th percentile per-packet one-way delay: 67.548 ms

Loss rate: 0.01%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-12-06 05:35:04

End at: 2017-12-06 05:35:34

Below is generated by plot.py at 2017-12-06 08:54:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 250.98 Mbit/s

95th percentile per-packet one-way delay: 58.258 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 147.39 Mbit/s

95th percentile per-packet one-way delay: 59.366 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 107.29 Mbit/s

95th percentile per-packet one-way delay: 55.363 ms

Loss rate: 0.00%

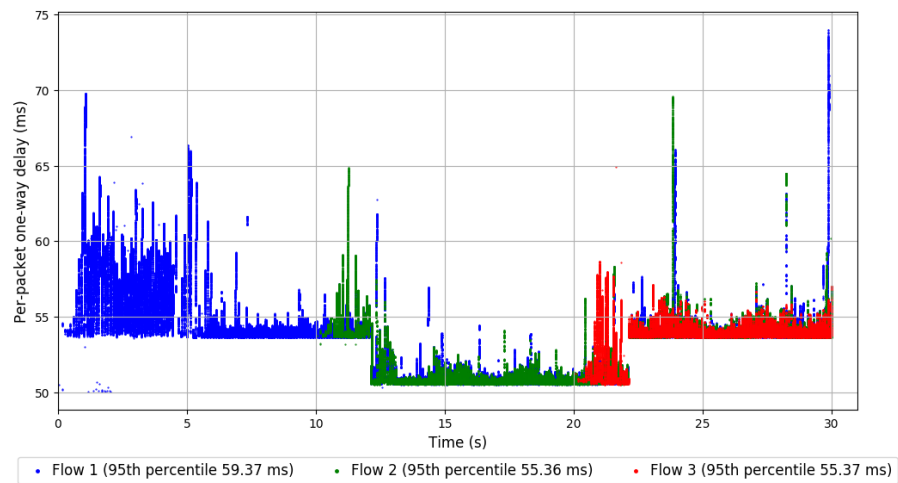
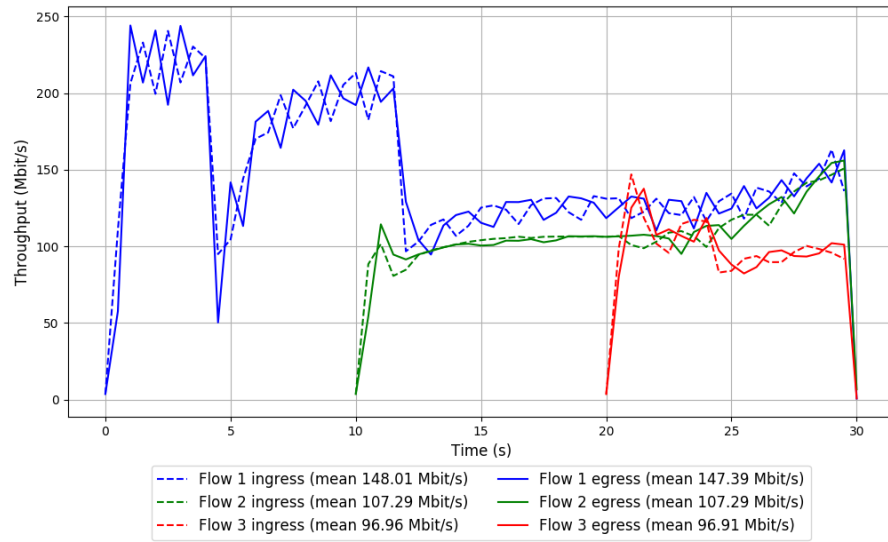
-- Flow 3:

Average throughput: 96.91 Mbit/s

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

Loss rate: 0.01%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-12-06 05:47:04

End at: 2017-12-06 05:47:34

Below is generated by plot.py at 2017-12-06 08:54:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 186.09 Mbit/s

95th percentile per-packet one-way delay: 57.669 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 83.85 Mbit/s

95th percentile per-packet one-way delay: 57.847 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 104.76 Mbit/s

95th percentile per-packet one-way delay: 58.541 ms

Loss rate: 0.04%

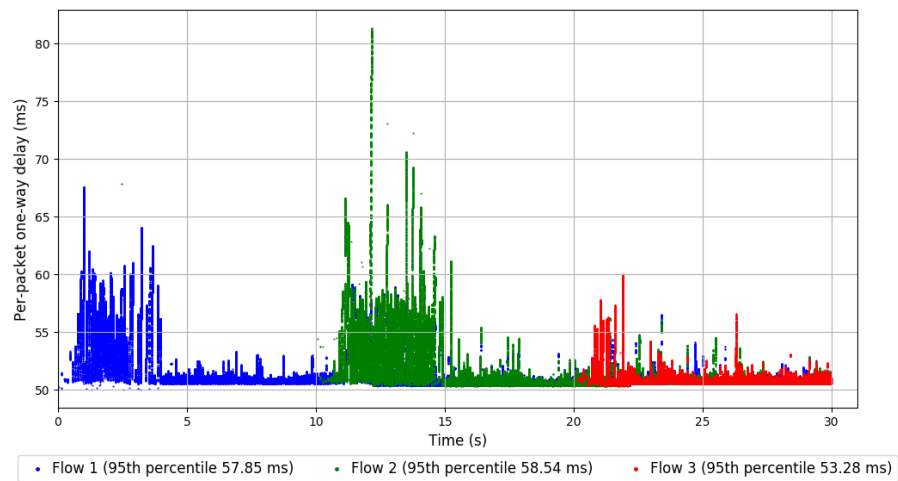
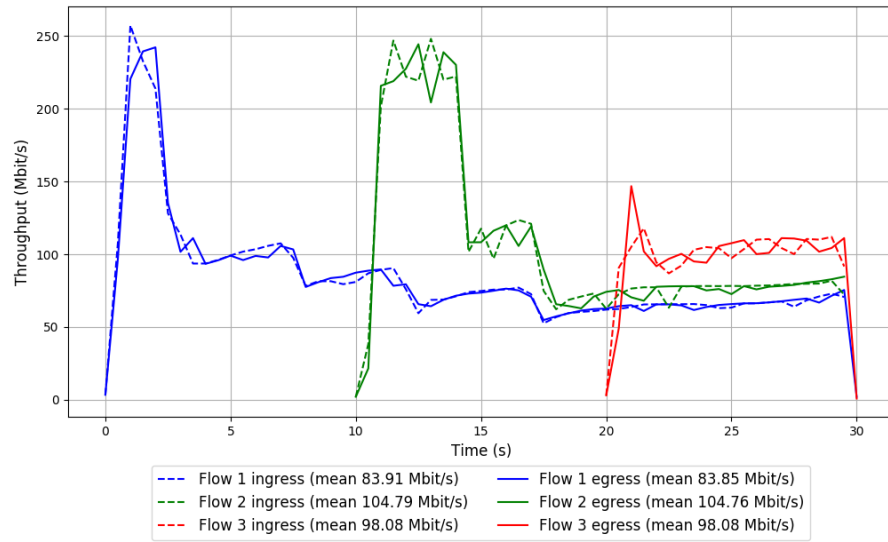
-- Flow 3:

Average throughput: 98.08 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-12-06 05:59:25

End at: 2017-12-06 05:59:55

Below is generated by plot.py at 2017-12-06 08:54:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 227.38 Mbit/s

95th percentile per-packet one-way delay: 58.110 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 112.99 Mbit/s

95th percentile per-packet one-way delay: 57.392 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 116.19 Mbit/s

95th percentile per-packet one-way delay: 59.119 ms

Loss rate: 0.10%

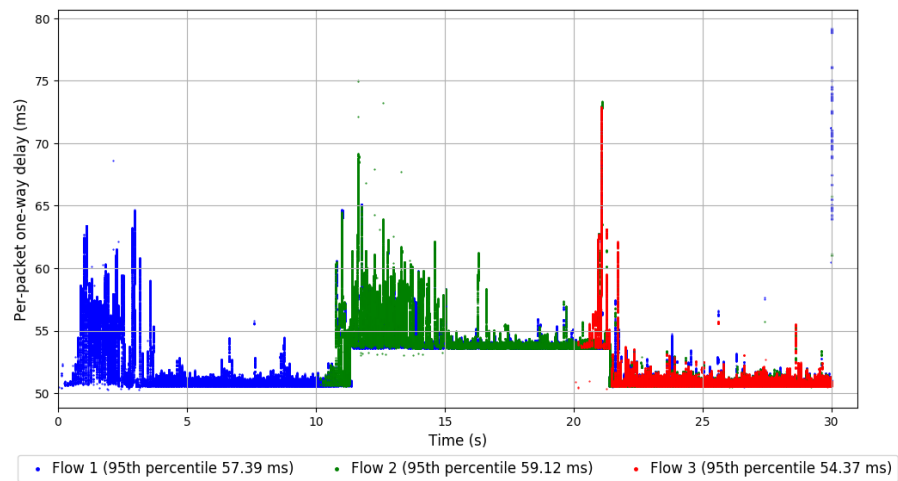
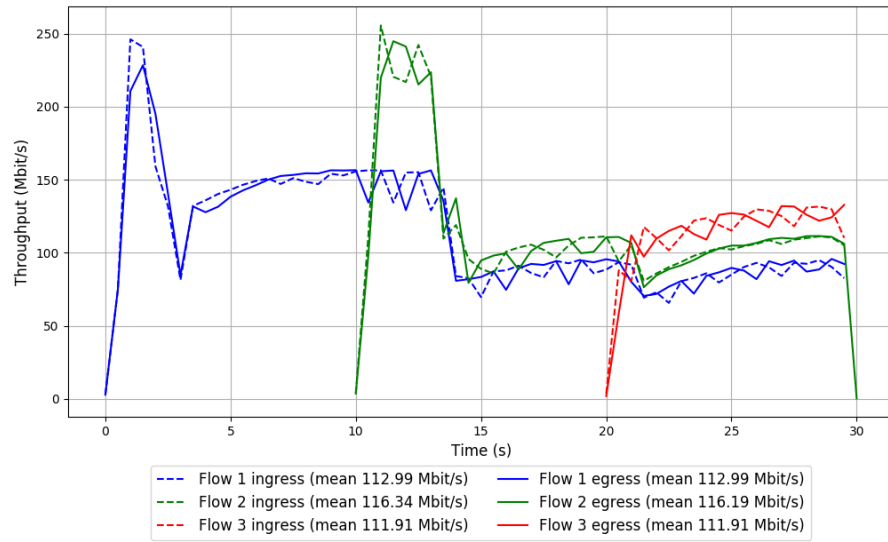
-- Flow 3:

Average throughput: 111.91 Mbit/s

95th percentile per-packet one-way delay: 54.368 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-12-06 06:11:49

End at: 2017-12-06 06:12:19

Below is generated by plot.py at 2017-12-06 08:54:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 191.70 Mbit/s

95th percentile per-packet one-way delay: 60.702 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 91.69 Mbit/s

95th percentile per-packet one-way delay: 58.777 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 147.65 Mbit/s

95th percentile per-packet one-way delay: 62.122 ms

Loss rate: 0.03%

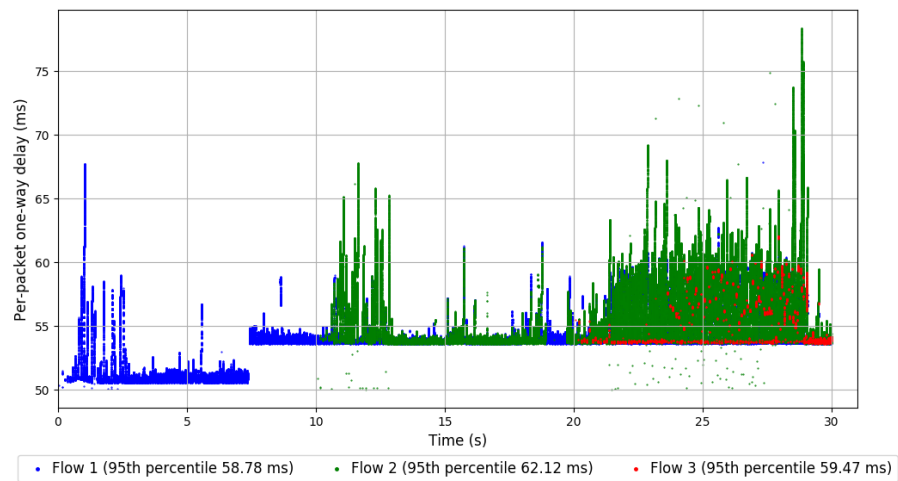
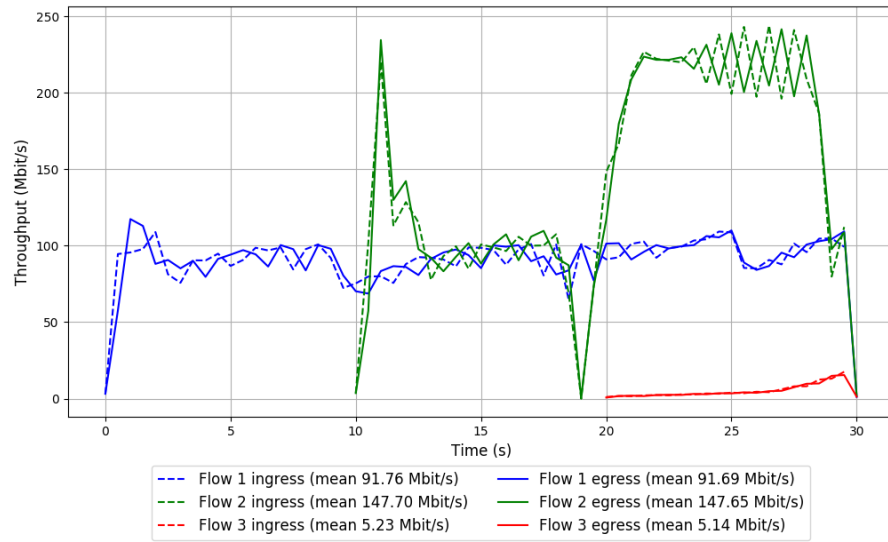
-- Flow 3:

Average throughput: 5.14 Mbit/s

95th percentile per-packet one-way delay: 59.469 ms

Loss rate: 1.76%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-12-06 06:24:02

End at: 2017-12-06 06:24:32

Below is generated by plot.py at 2017-12-06 08:54:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 178.43 Mbit/s

95th percentile per-packet one-way delay: 59.591 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 83.89 Mbit/s

95th percentile per-packet one-way delay: 60.610 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 90.62 Mbit/s

95th percentile per-packet one-way delay: 58.197 ms

Loss rate: 0.00%

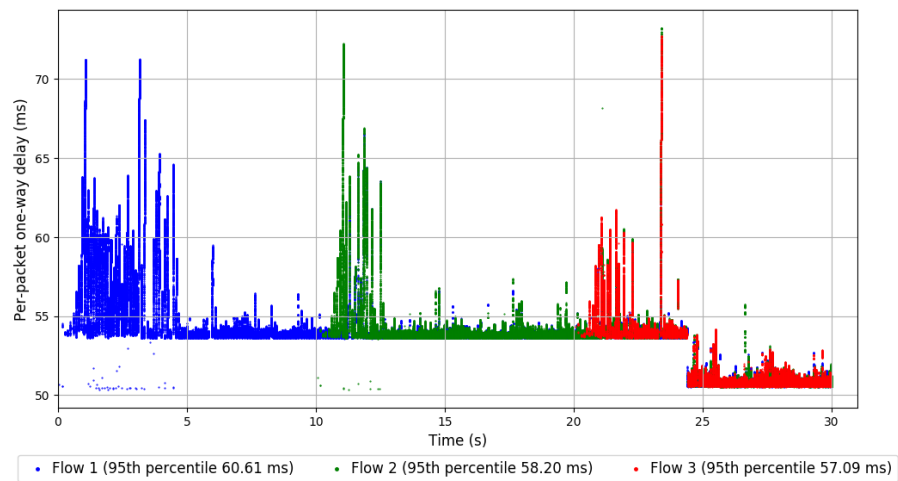
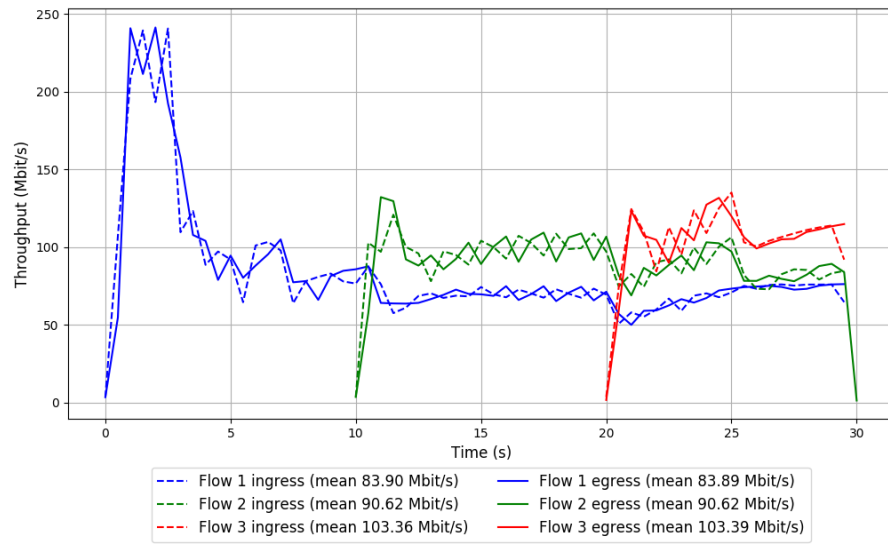
-- Flow 3:

Average throughput: 103.39 Mbit/s

95th percentile per-packet one-way delay: 57.095 ms

Loss rate: 0.01%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-12-06 06:36:03

End at: 2017-12-06 06:36:33

Below is generated by plot.py at 2017-12-06 08:54:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 223.90 Mbit/s

95th percentile per-packet one-way delay: 58.679 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 112.89 Mbit/s

95th percentile per-packet one-way delay: 59.368 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 106.98 Mbit/s

95th percentile per-packet one-way delay: 57.192 ms

Loss rate: 0.22%

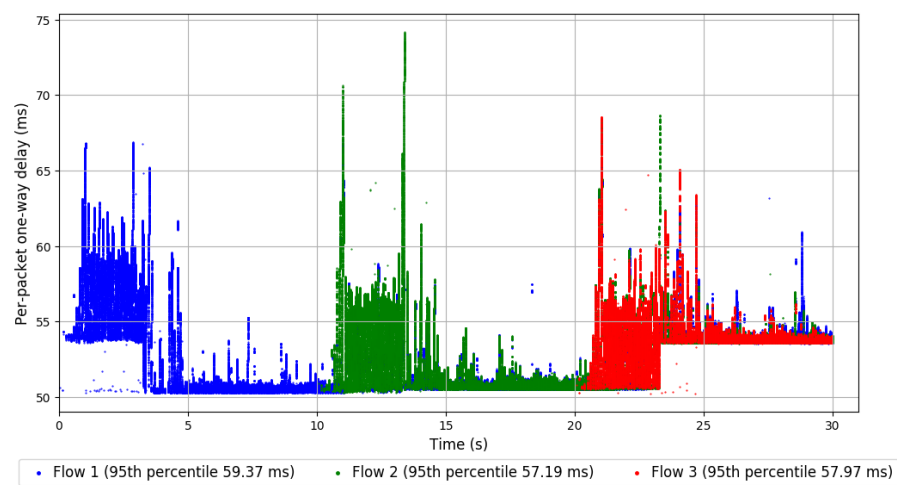
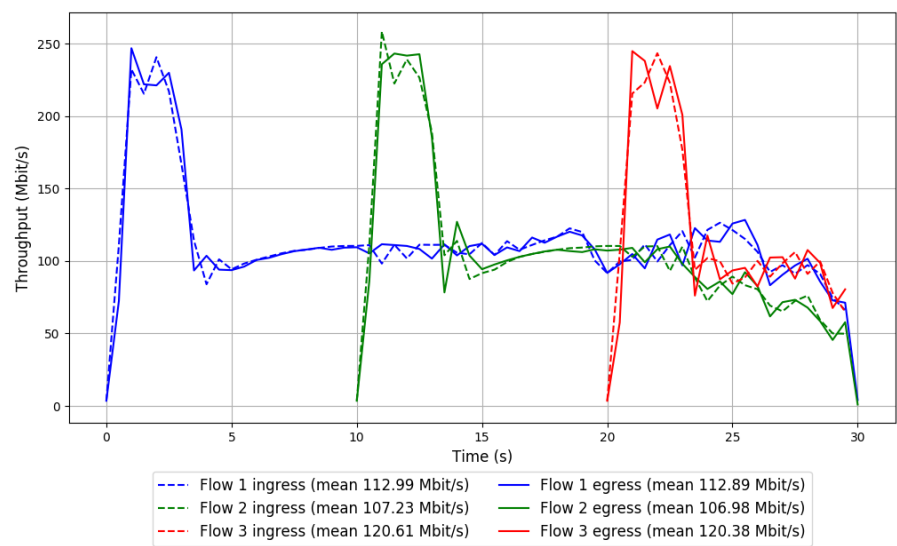
-- Flow 3:

Average throughput: 120.38 Mbit/s

95th percentile per-packet one-way delay: 57.965 ms

Loss rate: 0.16%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-12-06 06:48:22

End at: 2017-12-06 06:48:52

Below is generated by plot.py at 2017-12-06 08:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 177.77 Mbit/s

95th percentile per-packet one-way delay: 58.150 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 81.47 Mbit/s

95th percentile per-packet one-way delay: 58.412 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 103.21 Mbit/s

95th percentile per-packet one-way delay: 57.828 ms

Loss rate: 0.01%

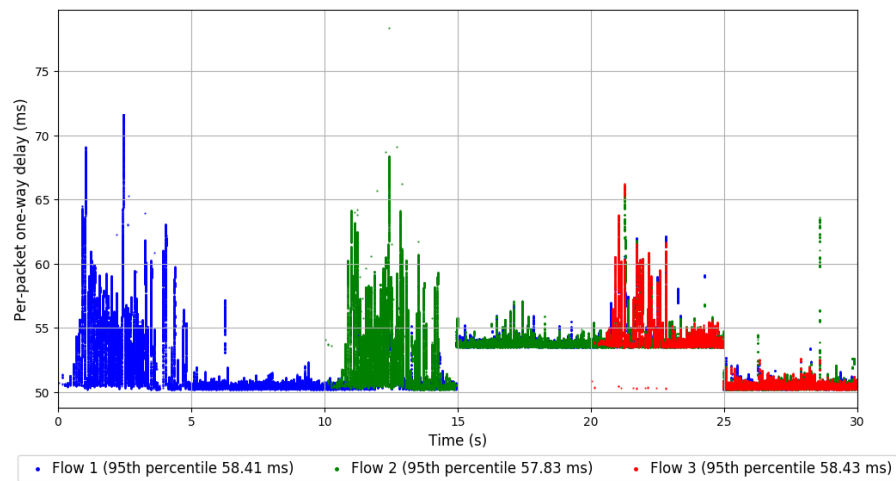
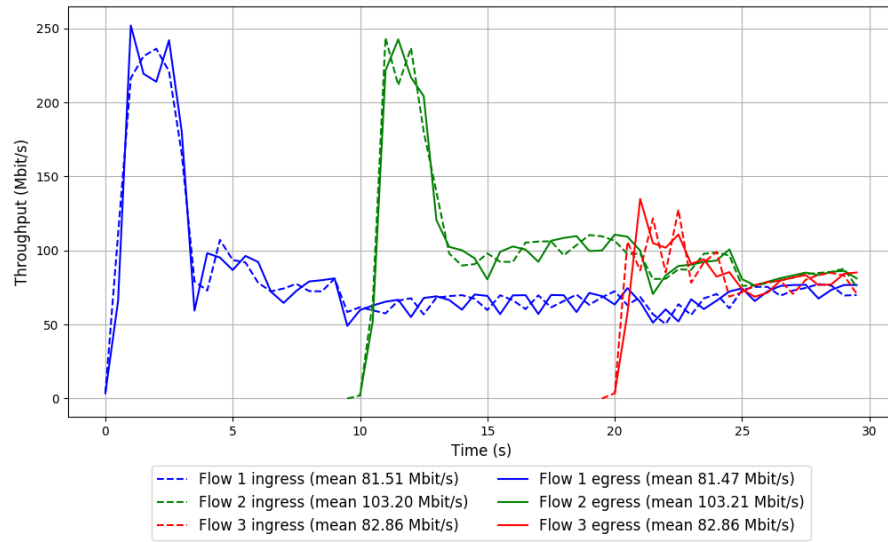
-- Flow 3:

Average throughput: 82.86 Mbit/s

95th percentile per-packet one-way delay: 58.431 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-12-06 07:00:21

End at: 2017-12-06 07:00:51

Below is generated by plot.py at 2017-12-06 08:57:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 233.25 Mbit/s

95th percentile per-packet one-way delay: 57.042 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 117.13 Mbit/s

95th percentile per-packet one-way delay: 57.286 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 119.49 Mbit/s

95th percentile per-packet one-way delay: 55.486 ms

Loss rate: 0.00%

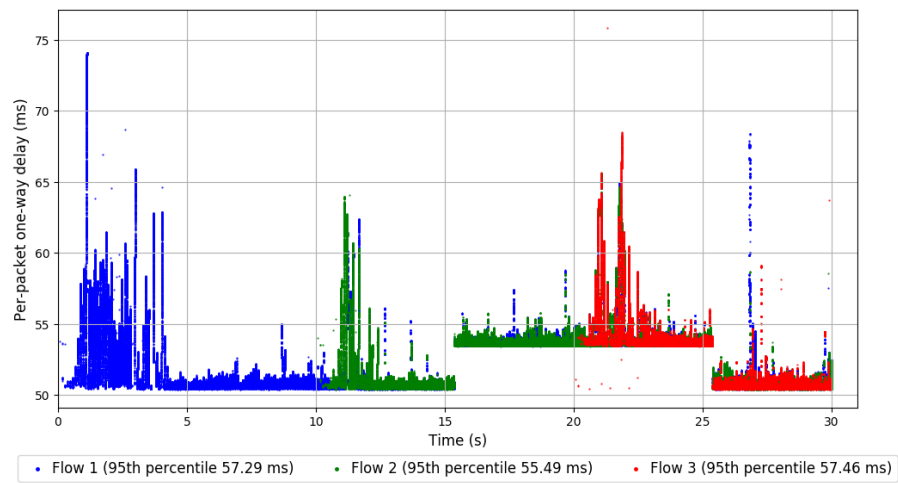
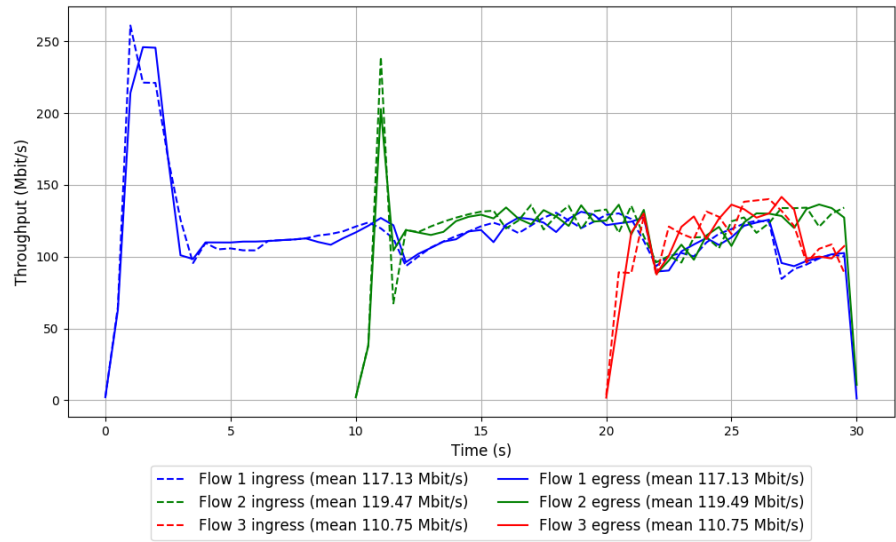
-- Flow 3:

Average throughput: 110.75 Mbit/s

95th percentile per-packet one-way delay: 57.463 ms

Loss rate: 0.01%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-12-06 07:12:51

End at: 2017-12-06 07:13:21

Below is generated by plot.py at 2017-12-06 08:57:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 222.86 Mbit/s

95th percentile per-packet one-way delay: 58.750 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 90.16 Mbit/s

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

Loss rate: 0.03%

-- Flow 2:

Average throughput: 117.28 Mbit/s

95th percentile per-packet one-way delay: 60.145 ms

Loss rate: 0.01%

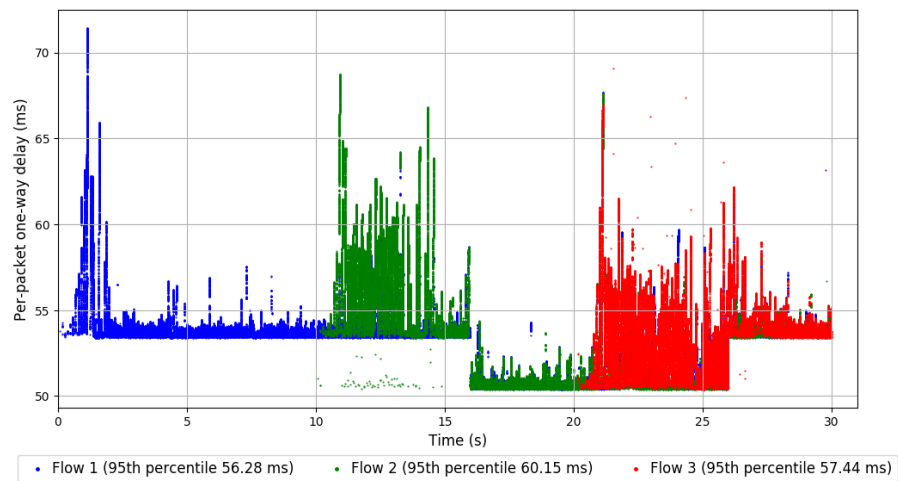
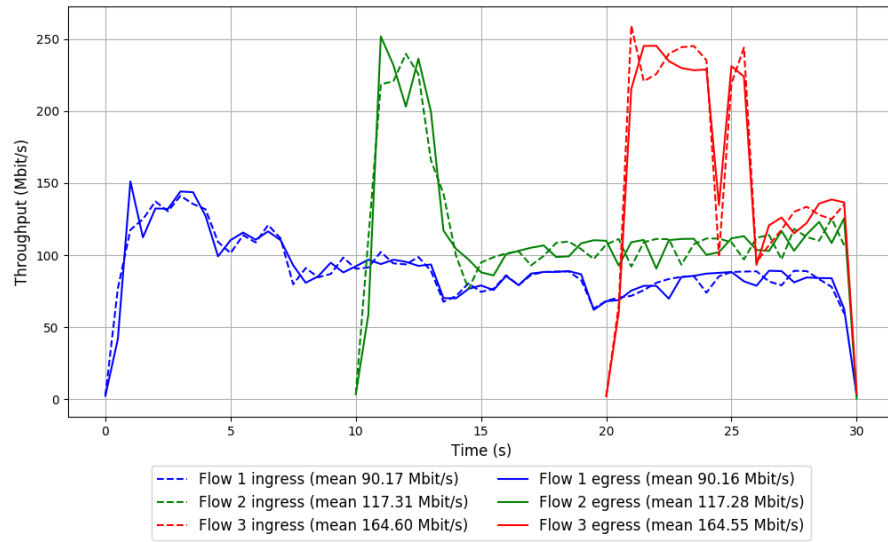
-- Flow 3:

Average throughput: 164.55 Mbit/s

95th percentile per-packet one-way delay: 57.438 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-12-06 07:24:52

End at: 2017-12-06 07:25:22

Below is generated by plot.py at 2017-12-06 08:57:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 199.77 Mbit/s

95th percentile per-packet one-way delay: 56.529 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 94.10 Mbit/s

95th percentile per-packet one-way delay: 57.146 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 102.17 Mbit/s

95th percentile per-packet one-way delay: 55.525 ms

Loss rate: 0.00%

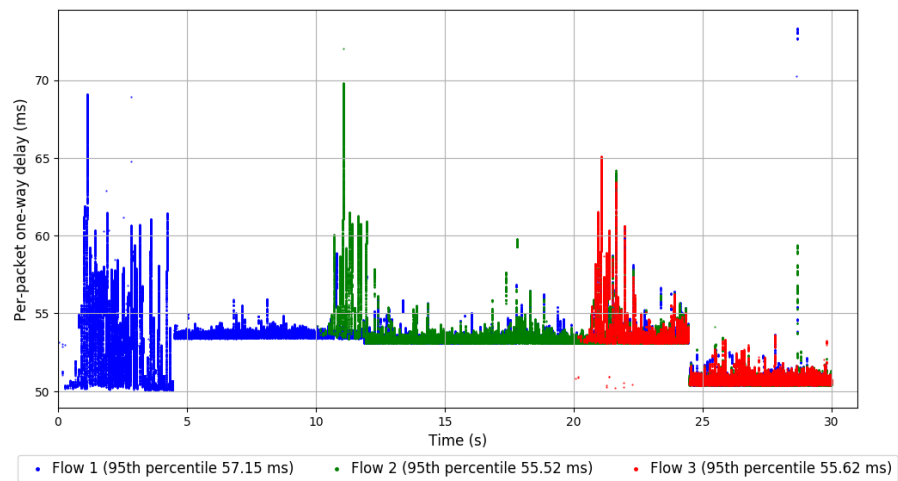
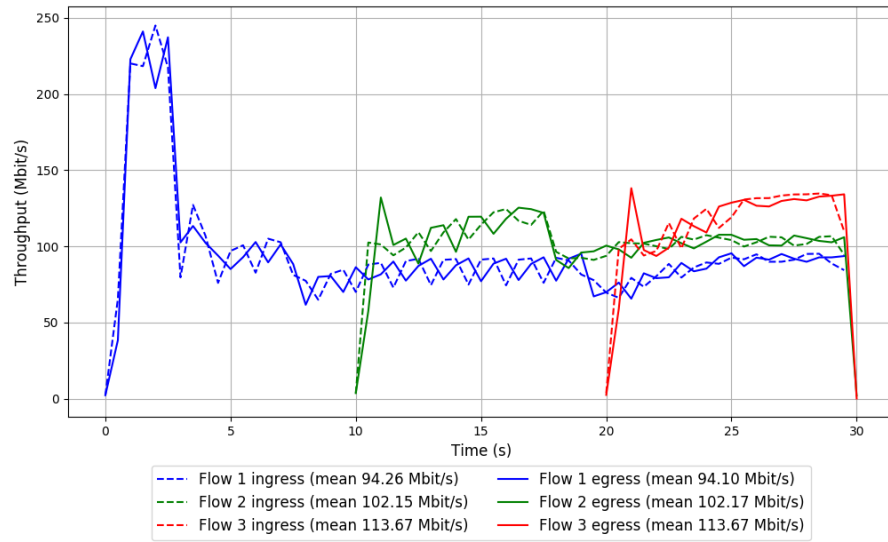
-- Flow 3:

Average throughput: 113.67 Mbit/s

95th percentile per-packet one-way delay: 55.624 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

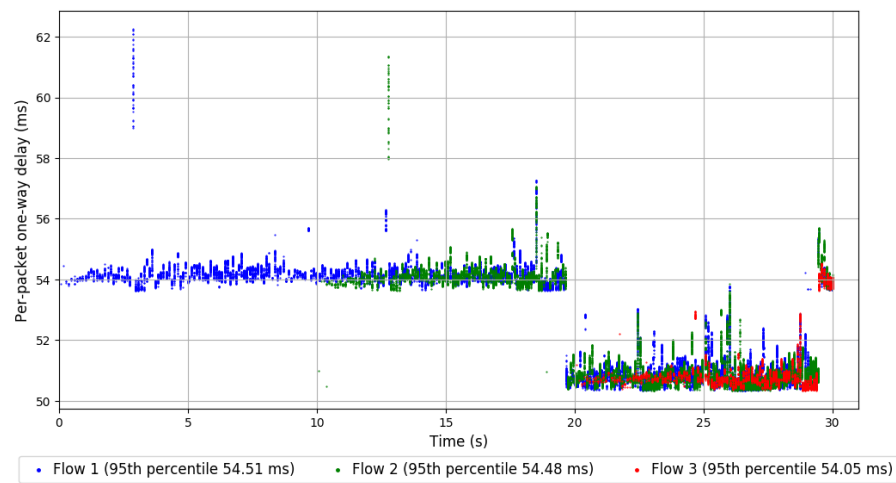
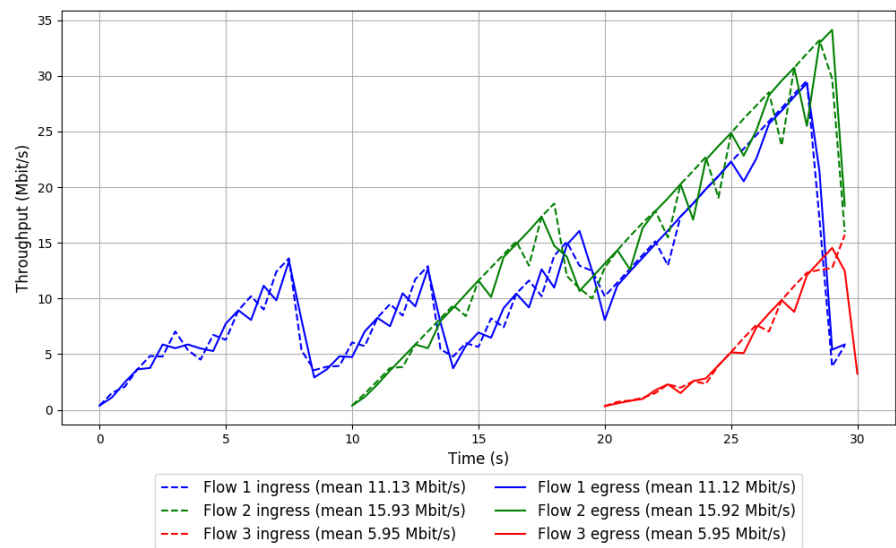


```
Run 1: Statistics of LEDBAT

Start at: 2017-12-06 05:37:37
End at: 2017-12-06 05:38:07

# Below is generated by plot.py at 2017-12-06 08:57:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.67 Mbit/s
95th percentile per-packet one-way delay: 54.478 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 11.12 Mbit/s
95th percentile per-packet one-way delay: 54.512 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 15.92 Mbit/s
95th percentile per-packet one-way delay: 54.483 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.95 Mbit/s
95th percentile per-packet one-way delay: 54.055 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

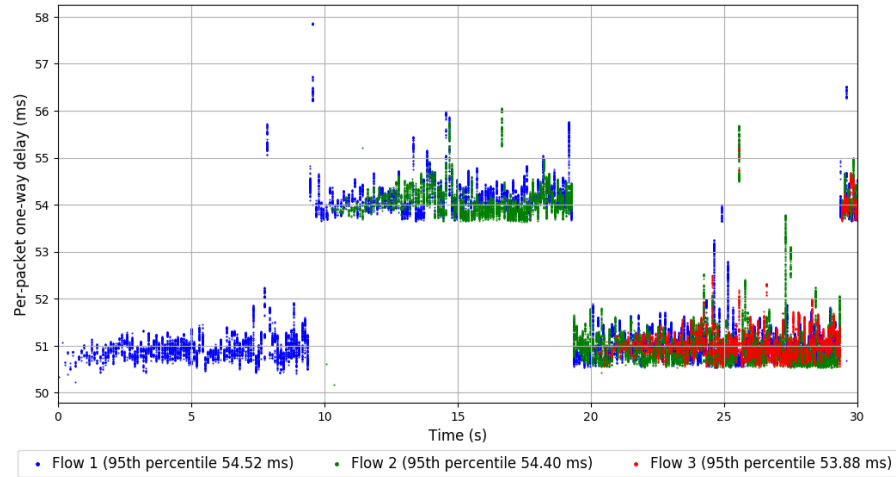
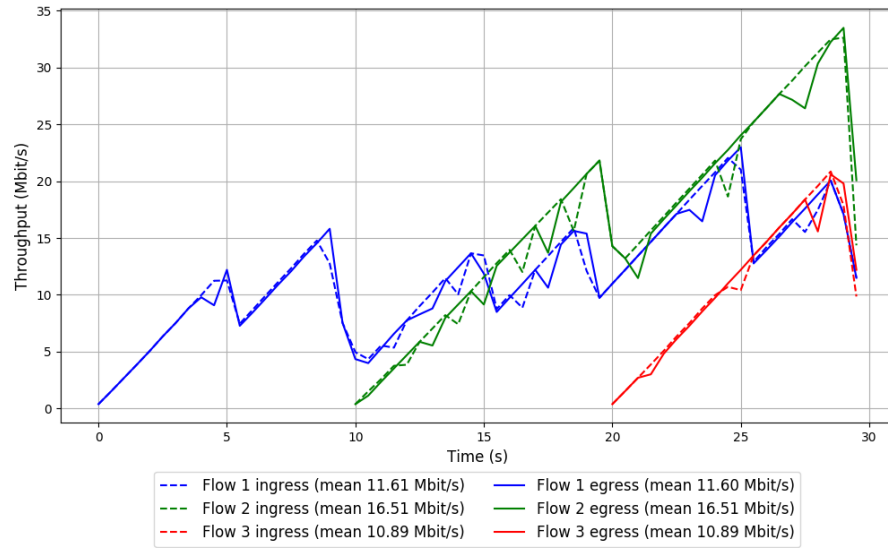


```
Run 2: Statistics of LEDBAT

Start at: 2017-12-06 05:49:37
End at: 2017-12-06 05:50:07

# Below is generated by plot.py at 2017-12-06 08:57:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 26.16 Mbit/s
95th percentile per-packet one-way delay: 54.432 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.60 Mbit/s
95th percentile per-packet one-way delay: 54.523 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 16.51 Mbit/s
95th percentile per-packet one-way delay: 54.402 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.89 Mbit/s
95th percentile per-packet one-way delay: 53.878 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-12-06 06:02:03

End at: 2017-12-06 06:02:33

Below is generated by plot.py at 2017-12-06 08:57:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.38 Mbit/s

95th percentile per-packet one-way delay: 54.772 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 9.85 Mbit/s

95th percentile per-packet one-way delay: 54.731 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 12.15 Mbit/s

95th percentile per-packet one-way delay: 54.783 ms

Loss rate: 0.50%

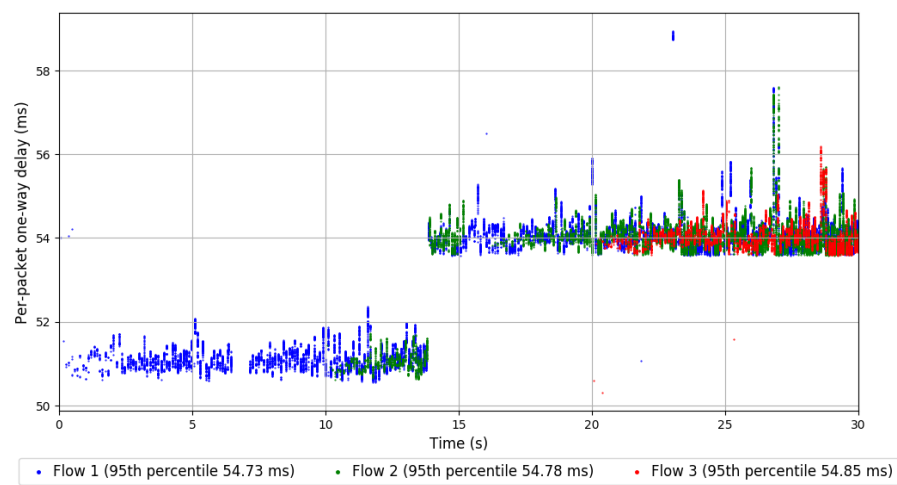
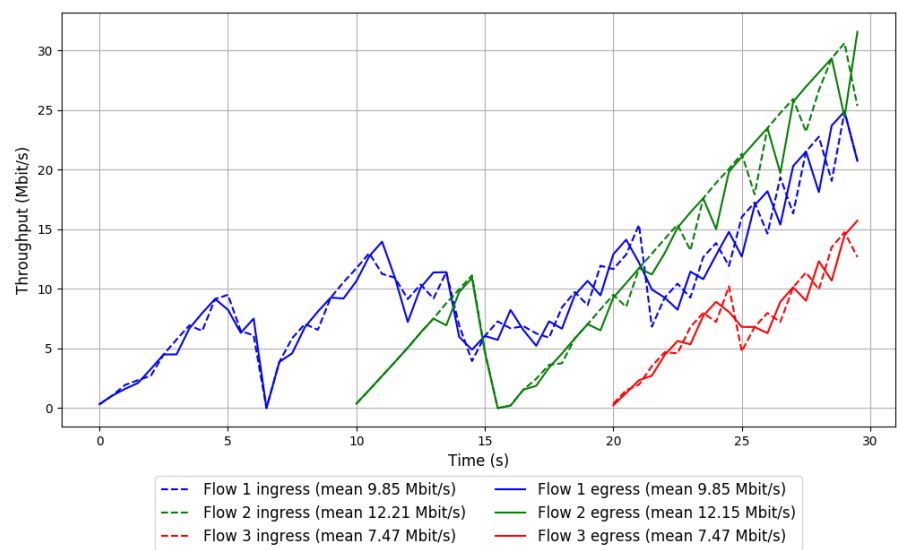
-- Flow 3:

Average throughput: 7.47 Mbit/s

95th percentile per-packet one-way delay: 54.851 ms

Loss rate: 0.05%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-12-06 06:14:19

End at: 2017-12-06 06:14:49

Below is generated by plot.py at 2017-12-06 08:57:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.20 Mbit/s

95th percentile per-packet one-way delay: 54.579 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 9.44 Mbit/s

95th percentile per-packet one-way delay: 54.443 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 10.86 Mbit/s

95th percentile per-packet one-way delay: 54.716 ms

Loss rate: 0.04%

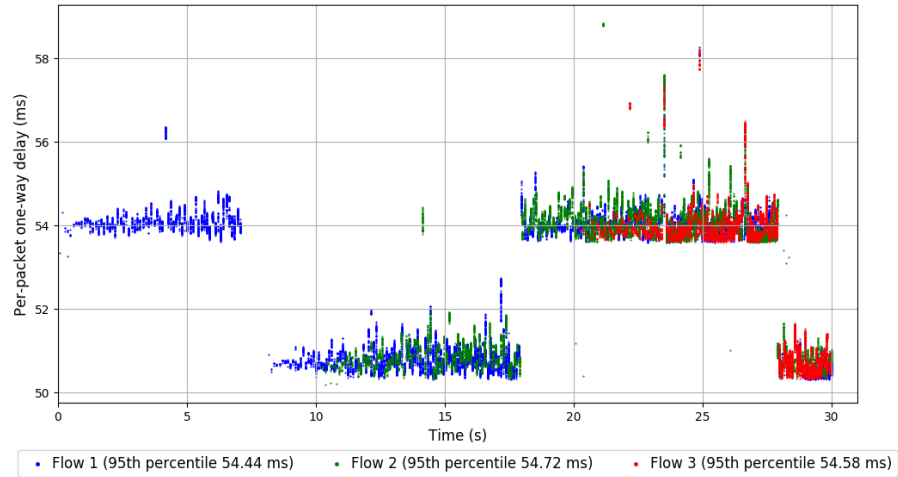
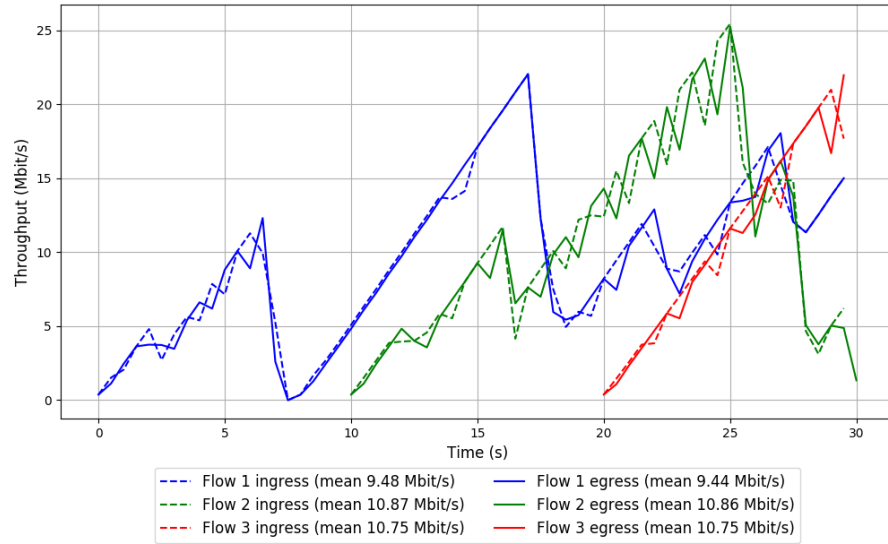
-- Flow 3:

Average throughput: 10.75 Mbit/s

95th percentile per-packet one-way delay: 54.578 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-12-06 06:26:31

End at: 2017-12-06 06:27:01

Below is generated by plot.py at 2017-12-06 08:57:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.47 Mbit/s

95th percentile per-packet one-way delay: 55.334 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 26.13 Mbit/s

95th percentile per-packet one-way delay: 55.504 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.51 Mbit/s

95th percentile per-packet one-way delay: 54.963 ms

Loss rate: 0.00%

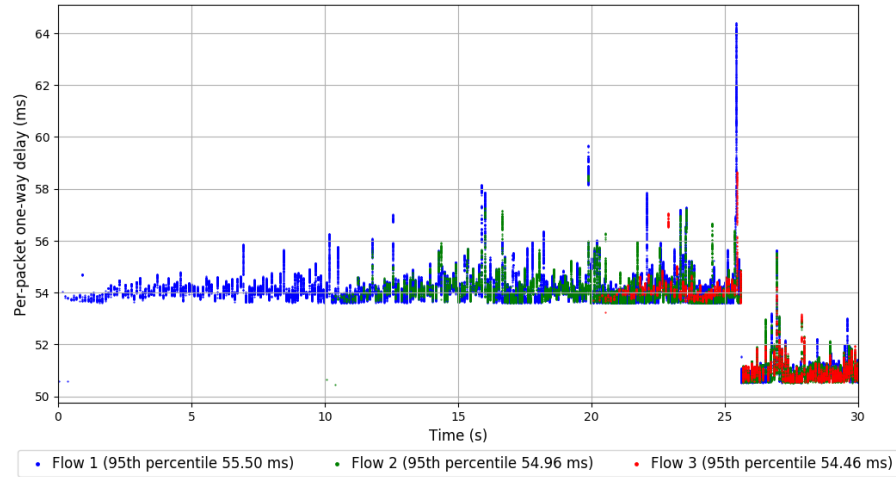
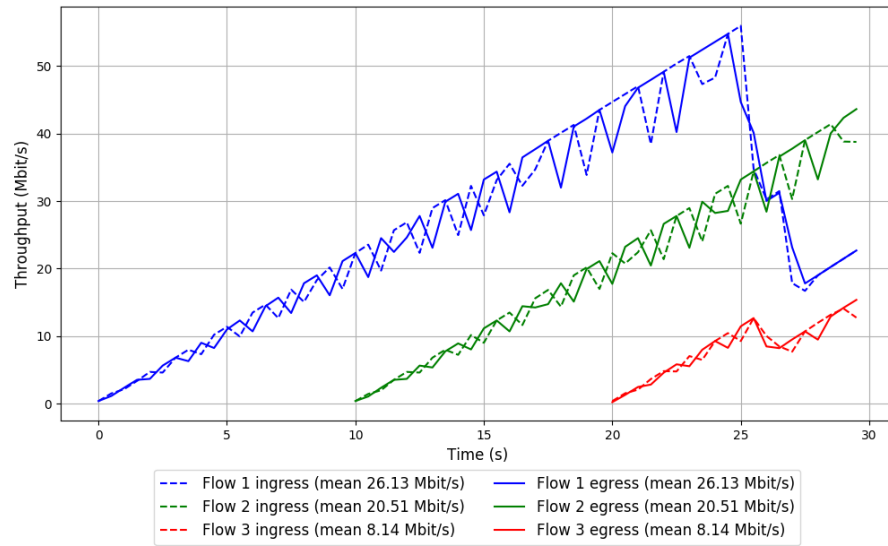
-- Flow 3:

Average throughput: 8.14 Mbit/s

95th percentile per-packet one-way delay: 54.457 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

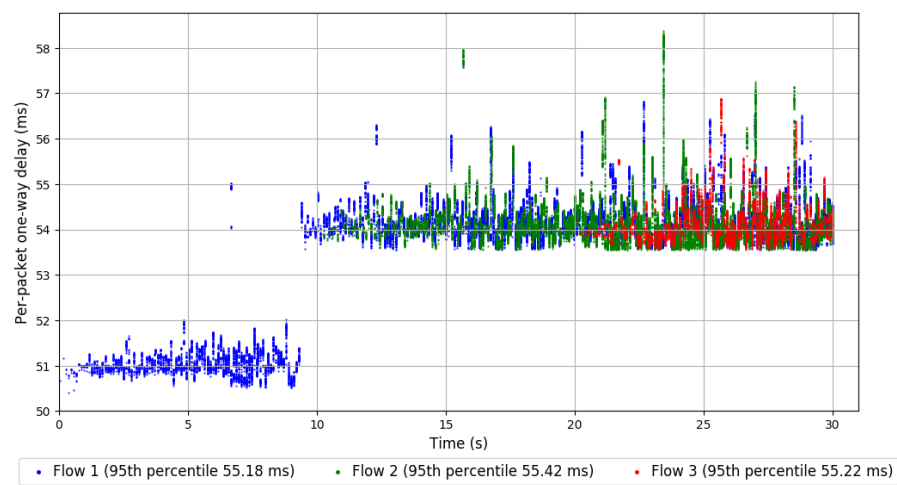
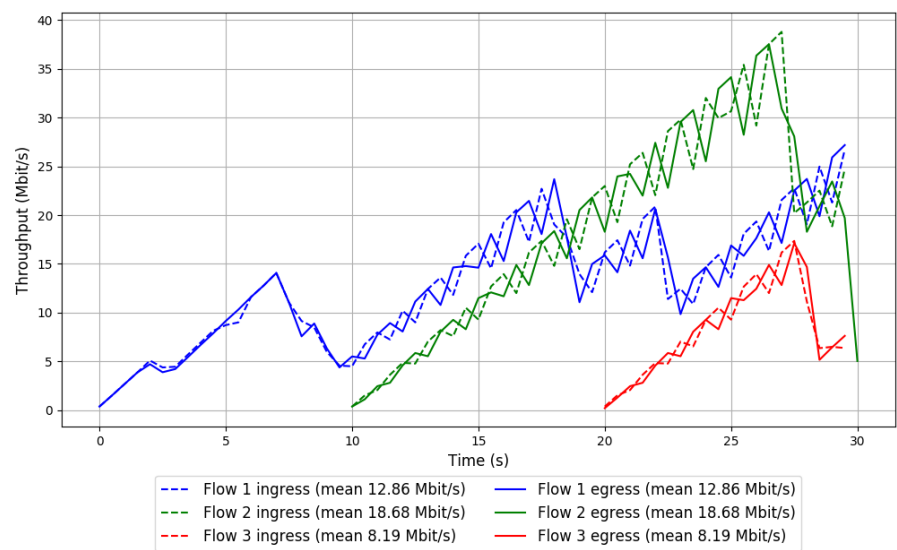


```
Run 6: Statistics of LEDBAT

Start at: 2017-12-06 06:38:37
End at: 2017-12-06 06:39:07

# Below is generated by plot.py at 2017-12-06 08:57:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.00 Mbit/s
95th percentile per-packet one-way delay: 55.235 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 12.86 Mbit/s
95th percentile per-packet one-way delay: 55.180 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 18.68 Mbit/s
95th percentile per-packet one-way delay: 55.419 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 8.19 Mbit/s
95th percentile per-packet one-way delay: 55.217 ms
Loss rate: 0.01%
```

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-12-06 06:50:51

End at: 2017-12-06 06:51:21

Below is generated by plot.py at 2017-12-06 08:57:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.19 Mbit/s

95th percentile per-packet one-way delay: 54.874 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 16.27 Mbit/s

95th percentile per-packet one-way delay: 54.847 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 9.57 Mbit/s

95th percentile per-packet one-way delay: 54.576 ms

Loss rate: 1.46%

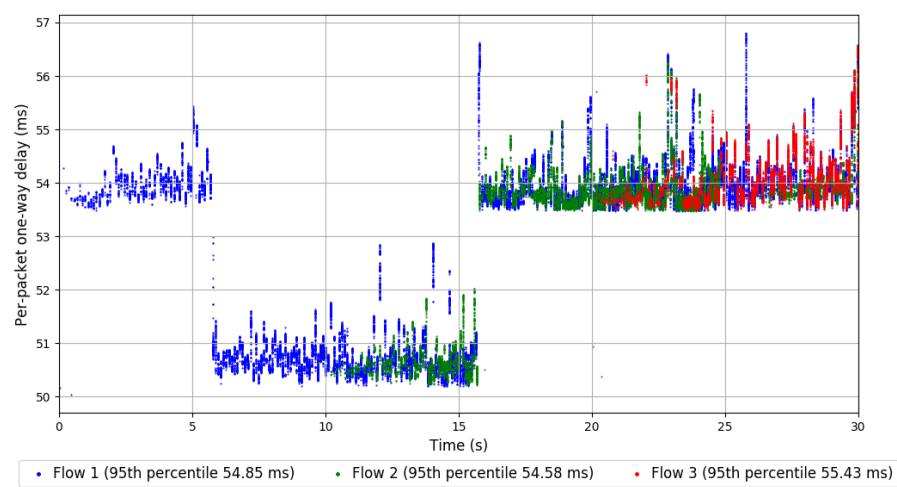
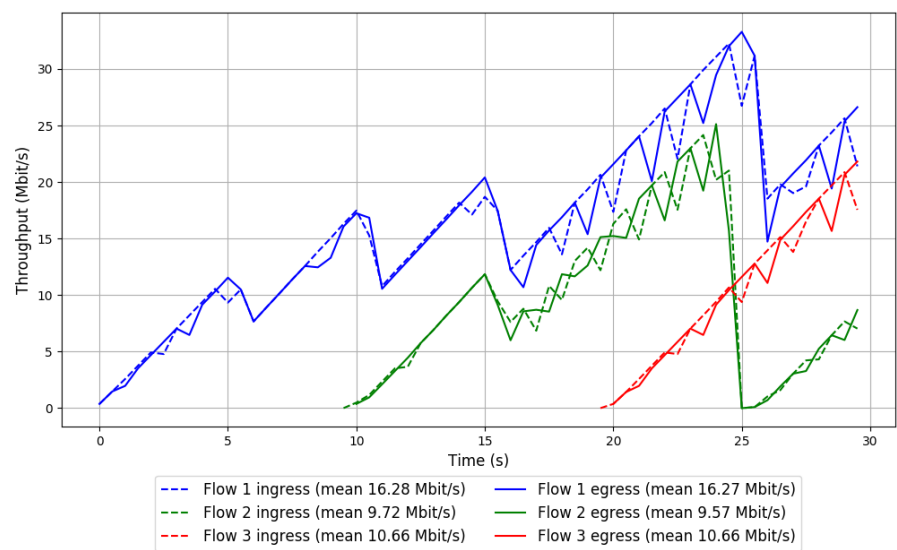
-- Flow 3:

Average throughput: 10.66 Mbit/s

95th percentile per-packet one-way delay: 55.426 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-12-06 07:02:50

End at: 2017-12-06 07:03:20

Below is generated by plot.py at 2017-12-06 08:57:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.68 Mbit/s

95th percentile per-packet one-way delay: 53.735 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 7.17 Mbit/s

95th percentile per-packet one-way delay: 54.003 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 10.17 Mbit/s

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

Loss rate: 0.14%

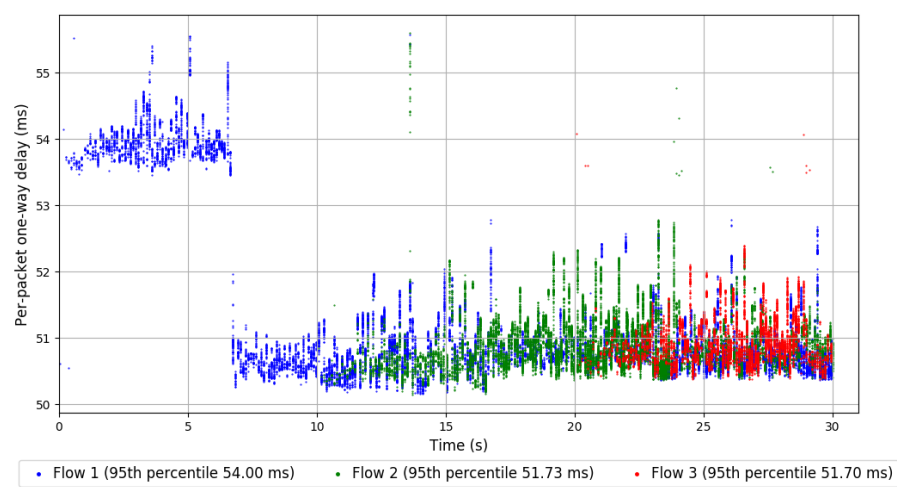
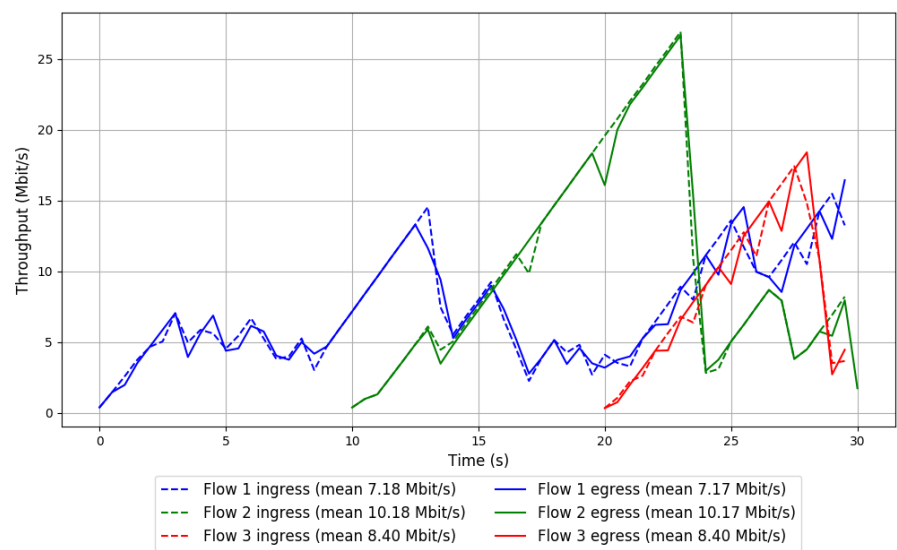
-- Flow 3:

Average throughput: 8.40 Mbit/s

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

Loss rate: 0.04%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-12-06 07:15:27

End at: 2017-12-06 07:15:57

Below is generated by plot.py at 2017-12-06 08:57:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 30.24 Mbit/s

95th percentile per-packet one-way delay: 55.149 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 21.01 Mbit/s

95th percentile per-packet one-way delay: 55.275 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 8.83 Mbit/s

95th percentile per-packet one-way delay: 54.739 ms

Loss rate: 0.03%

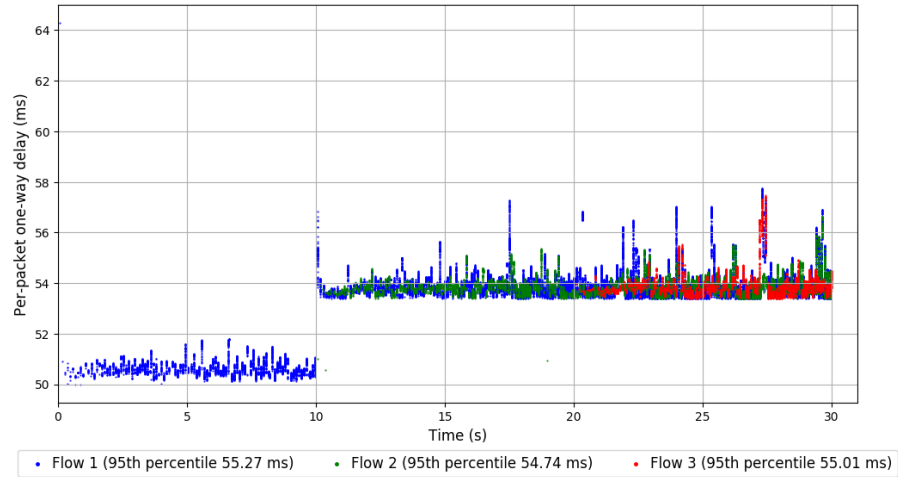
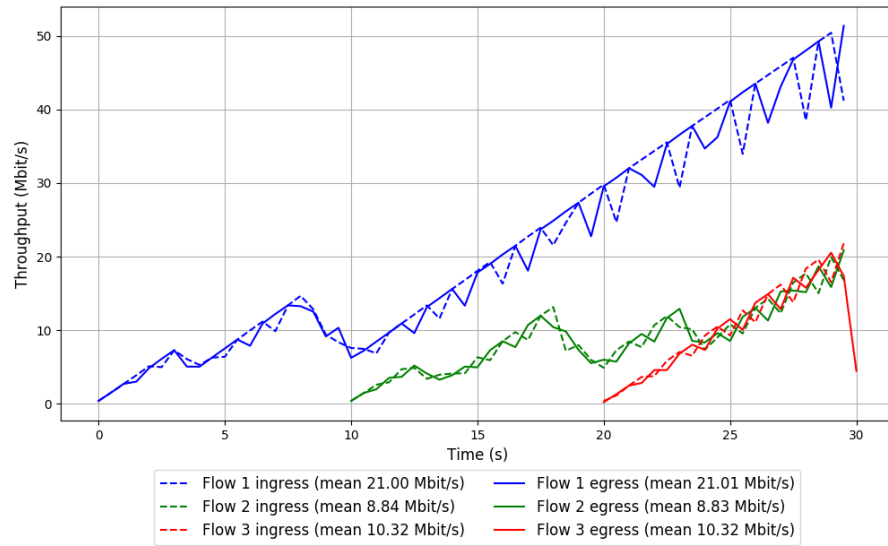
-- Flow 3:

Average throughput: 10.32 Mbit/s

95th percentile per-packet one-way delay: 55.011 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-12-06 07:27:25

End at: 2017-12-06 07:27:55

Below is generated by plot.py at 2017-12-06 08:57:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.76 Mbit/s

95th percentile per-packet one-way delay: 54.062 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 7.26 Mbit/s

95th percentile per-packet one-way delay: 53.916 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 8.31 Mbit/s

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

Loss rate: 1.30%

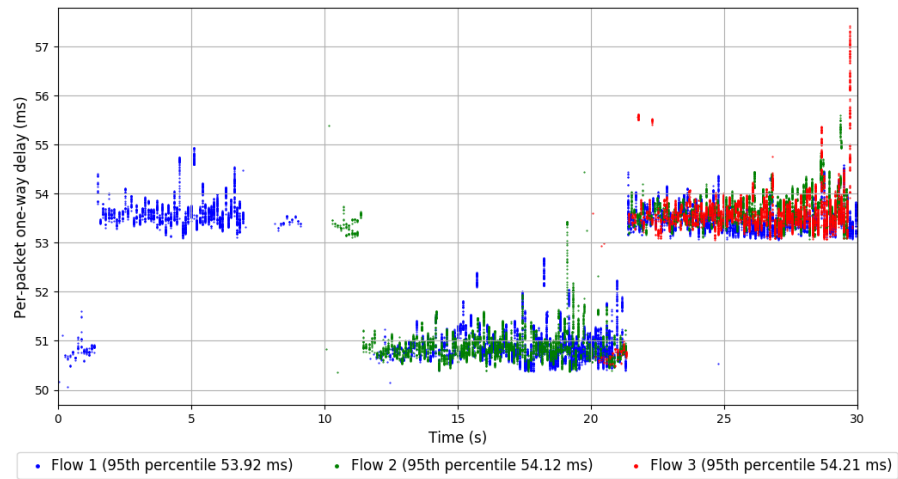
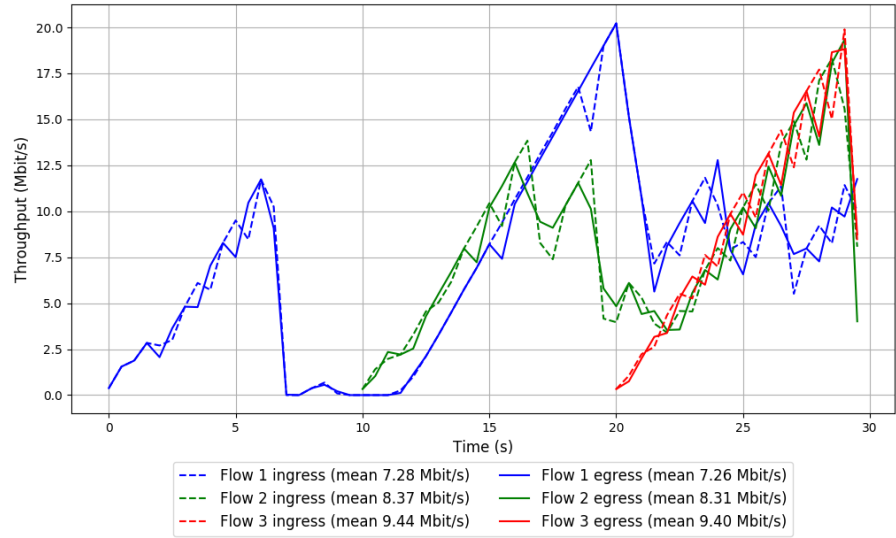
-- Flow 3:

Average throughput: 9.40 Mbit/s

95th percentile per-packet one-way delay: 54.212 ms

Loss rate: 0.37%

Run 10: Report of LEDBAT — Data Link

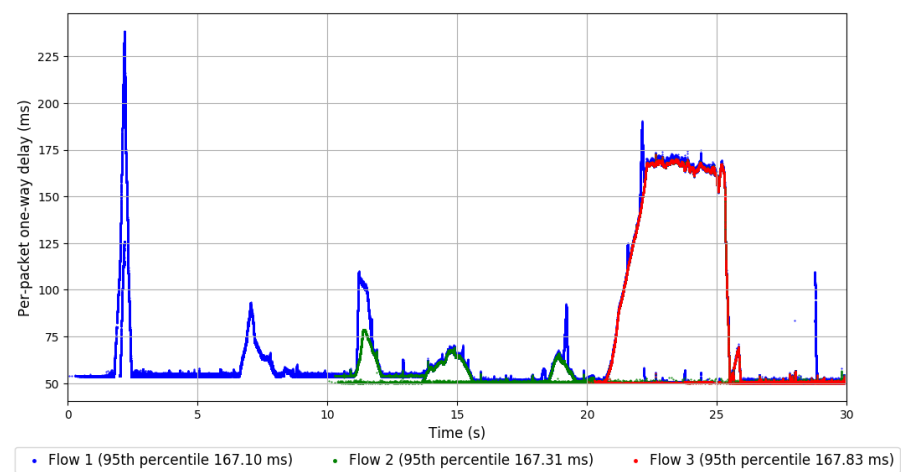
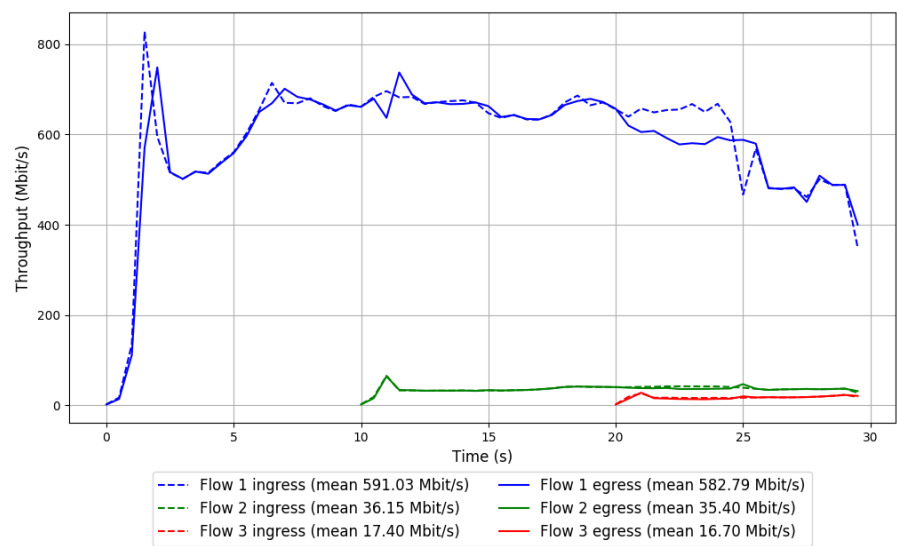


```
Run 1: Statistics of PCC

Start at: 2017-12-06 05:31:13
End at: 2017-12-06 05:31:43

# Below is generated by plot.py at 2017-12-06 09:05:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 611.83 Mbit/s
95th percentile per-packet one-way delay: 167.131 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 582.79 Mbit/s
95th percentile per-packet one-way delay: 167.101 ms
Loss rate: 1.40%
-- Flow 2:
Average throughput: 35.40 Mbit/s
95th percentile per-packet one-way delay: 167.315 ms
Loss rate: 2.07%
-- Flow 3:
Average throughput: 16.70 Mbit/s
95th percentile per-packet one-way delay: 167.830 ms
Loss rate: 4.07%
```

Run 1: Report of PCC — Data Link

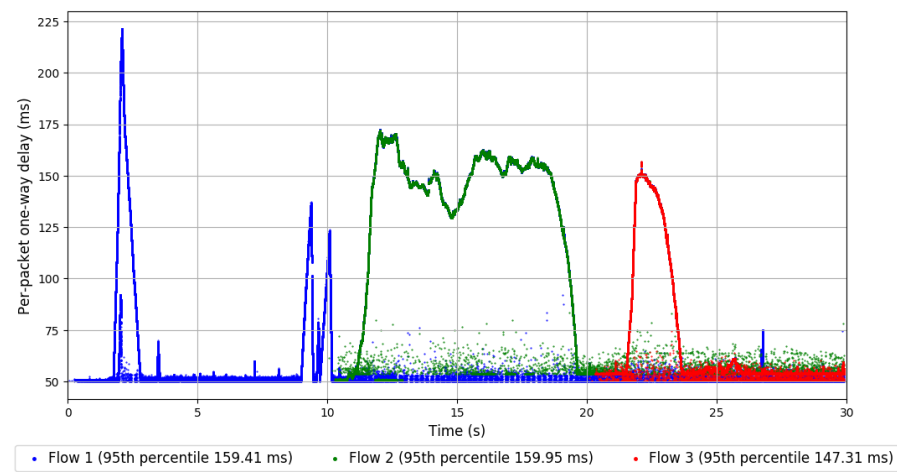
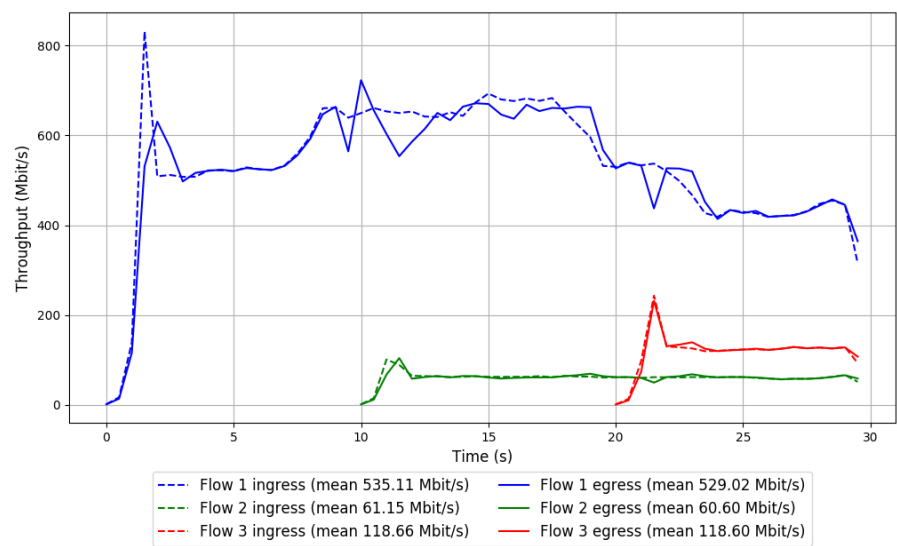


```
Run 2: Statistics of PCC

Start at: 2017-12-06 05:43:12
End at: 2017-12-06 05:43:43

# Below is generated by plot.py at 2017-12-06 09:05:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 608.28 Mbit/s
95th percentile per-packet one-way delay: 159.184 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 529.02 Mbit/s
95th percentile per-packet one-way delay: 159.409 ms
Loss rate: 1.13%
-- Flow 2:
Average throughput: 60.60 Mbit/s
95th percentile per-packet one-way delay: 159.947 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 118.60 Mbit/s
95th percentile per-packet one-way delay: 147.307 ms
Loss rate: 0.03%
```

Run 2: Report of PCC — Data Link

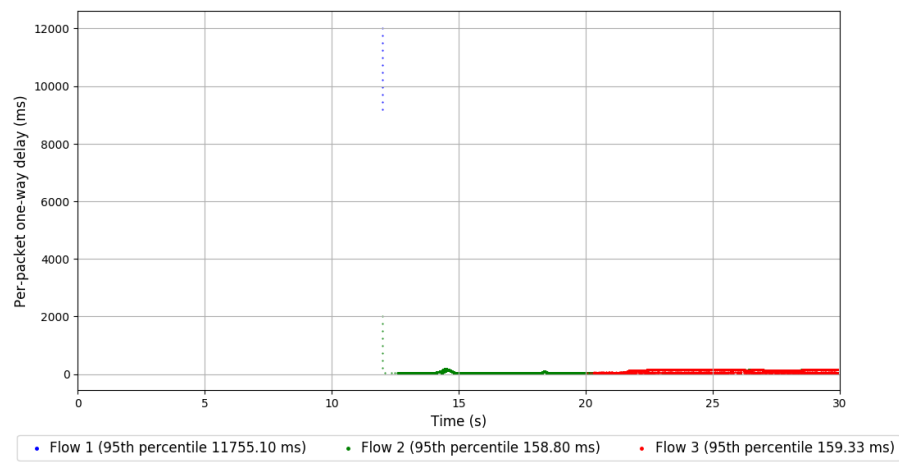
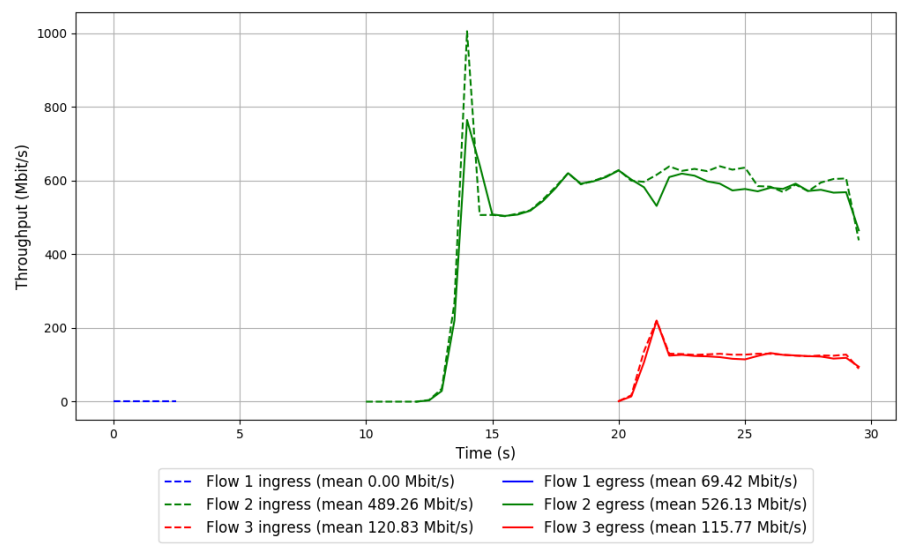


Run 3: Statistics of PCC

Start at: 2017-12-06 05:55:42

End at: 2017-12-06 05:56:12

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-12-06 06:07:59

End at: 2017-12-06 06:08:29

Below is generated by plot.py at 2017-12-06 09:05:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 613.41 Mbit/s

95th percentile per-packet one-way delay: 164.428 ms

Loss rate: 3.16%

-- Flow 1:

Average throughput: 573.38 Mbit/s

95th percentile per-packet one-way delay: 164.368 ms

Loss rate: 3.20%

-- Flow 2:

Average throughput: 32.84 Mbit/s

95th percentile per-packet one-way delay: 164.397 ms

Loss rate: 2.71%

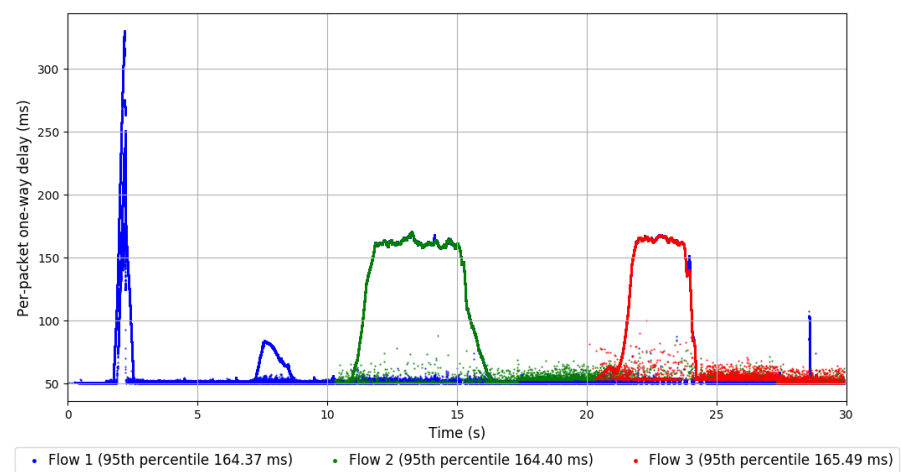
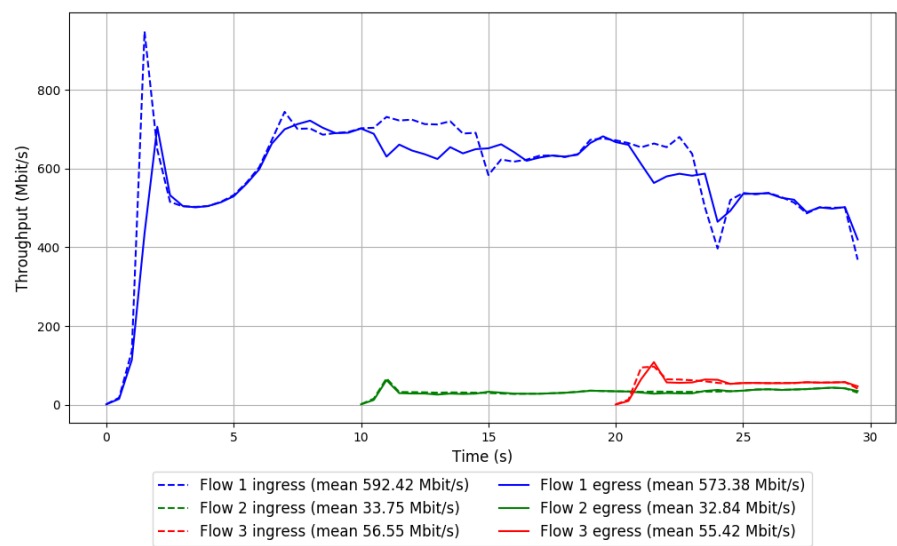
-- Flow 3:

Average throughput: 55.42 Mbit/s

95th percentile per-packet one-way delay: 165.490 ms

Loss rate: 2.29%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-12-06 06:20:11

End at: 2017-12-06 06:20:41

Below is generated by plot.py at 2017-12-06 09:06:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 625.44 Mbit/s

95th percentile per-packet one-way delay: 160.091 ms

Loss rate: 1.44%

-- Flow 1:

Average throughput: 547.76 Mbit/s

95th percentile per-packet one-way delay: 160.433 ms

Loss rate: 1.50%

-- Flow 2:

Average throughput: 81.47 Mbit/s

95th percentile per-packet one-way delay: 159.170 ms

Loss rate: 1.17%

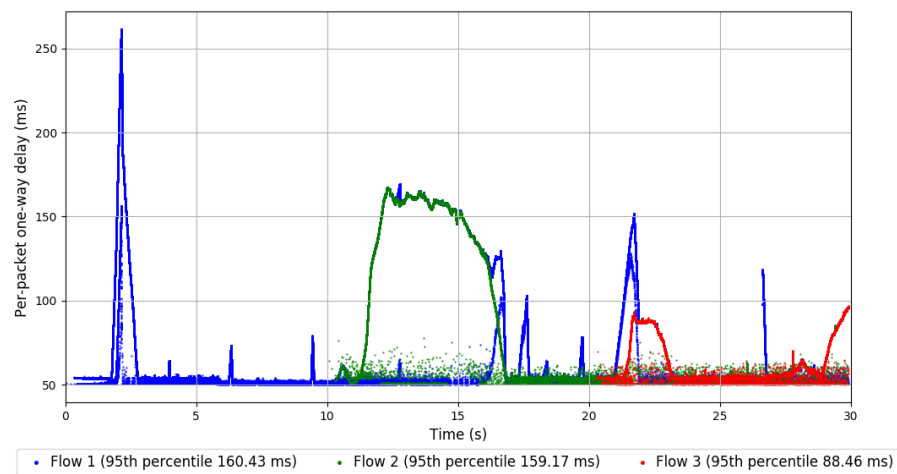
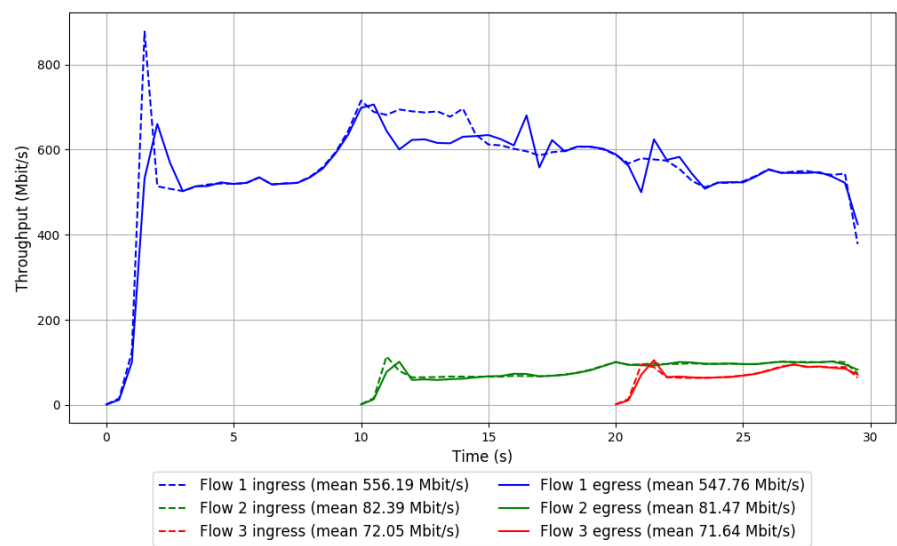
-- Flow 3:

Average throughput: 71.64 Mbit/s

95th percentile per-packet one-way delay: 88.459 ms

Loss rate: 0.54%

Run 5: Report of PCC — Data Link

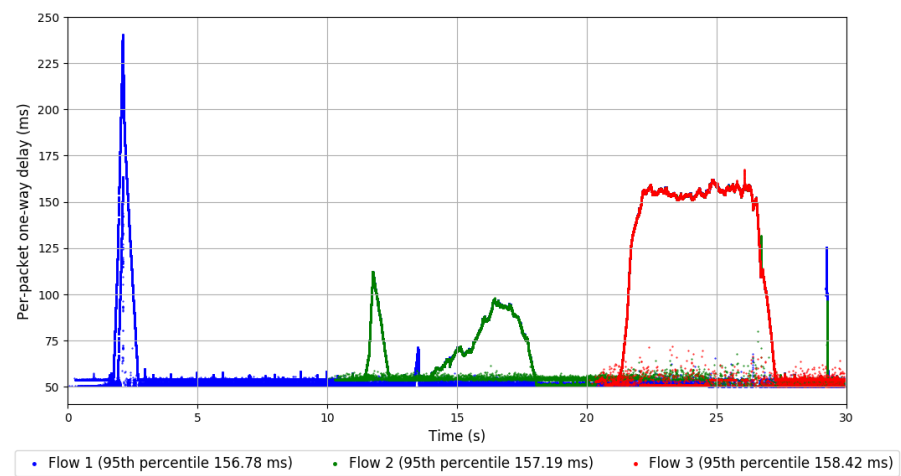
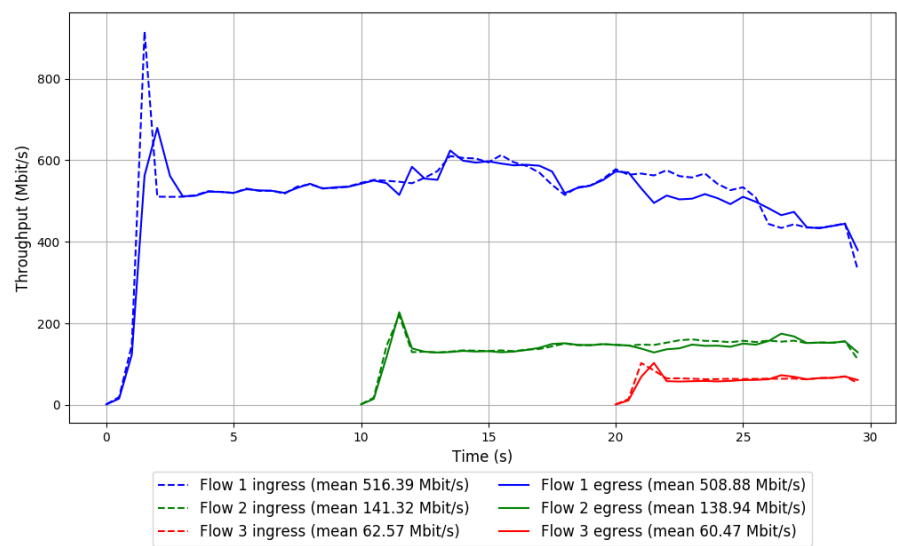


```
Run 6: Statistics of PCC

Start at: 2017-12-06 06:32:12
End at: 2017-12-06 06:32:42

# Below is generated by plot.py at 2017-12-06 09:06:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 621.11 Mbit/s
95th percentile per-packet one-way delay: 156.976 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 508.88 Mbit/s
95th percentile per-packet one-way delay: 156.784 ms
Loss rate: 1.44%
-- Flow 2:
Average throughput: 138.94 Mbit/s
95th percentile per-packet one-way delay: 157.191 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 60.47 Mbit/s
95th percentile per-packet one-way delay: 158.419 ms
Loss rate: 3.36%
```

Run 6: Report of PCC — Data Link

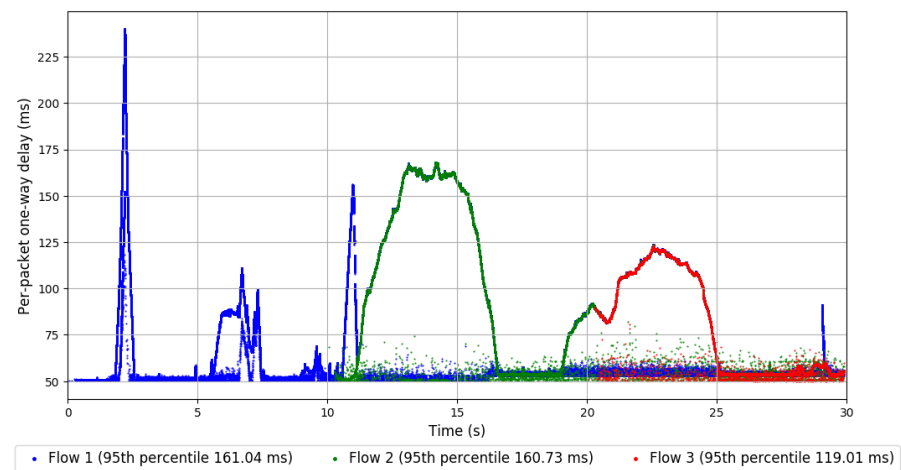
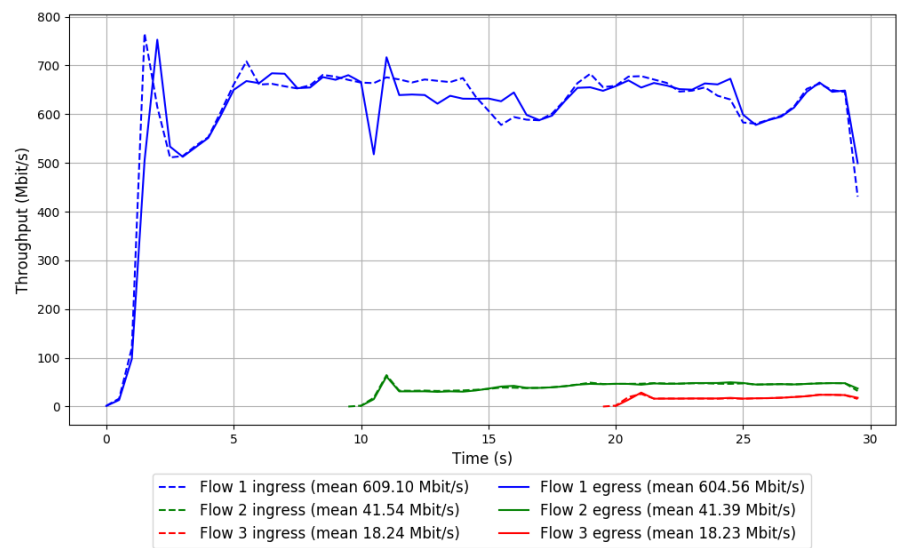


```
Run 7: Statistics of PCC

Start at: 2017-12-06 06:44:30
End at: 2017-12-06 06:45:00

# Below is generated by plot.py at 2017-12-06 09:07:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 638.03 Mbit/s
95th percentile per-packet one-way delay: 160.999 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 604.56 Mbit/s
95th percentile per-packet one-way delay: 161.042 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 41.39 Mbit/s
95th percentile per-packet one-way delay: 160.730 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 18.23 Mbit/s
95th percentile per-packet one-way delay: 119.006 ms
Loss rate: 0.04%
```


Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-12-06 06:56:28

End at: 2017-12-06 06:56:58

Below is generated by plot.py at 2017-12-06 09:08:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 651.12 Mbit/s

95th percentile per-packet one-way delay: 151.844 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 570.88 Mbit/s

95th percentile per-packet one-way delay: 155.005 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 61.86 Mbit/s

95th percentile per-packet one-way delay: 137.371 ms

Loss rate: 0.46%

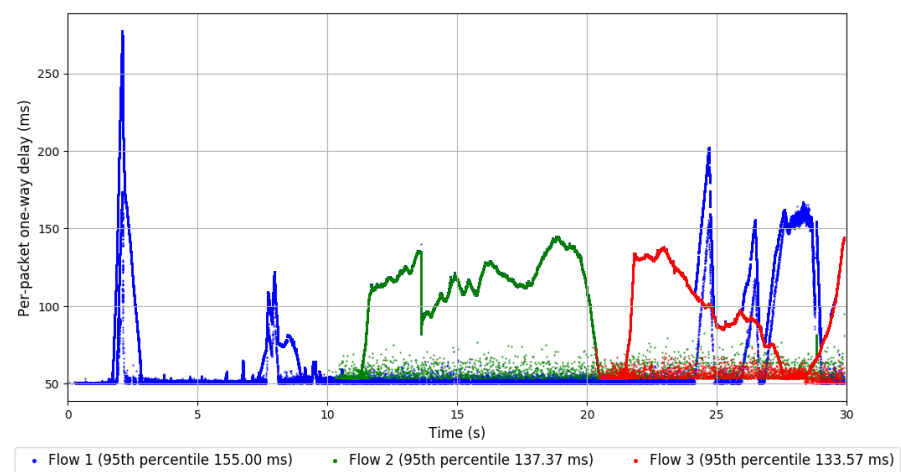
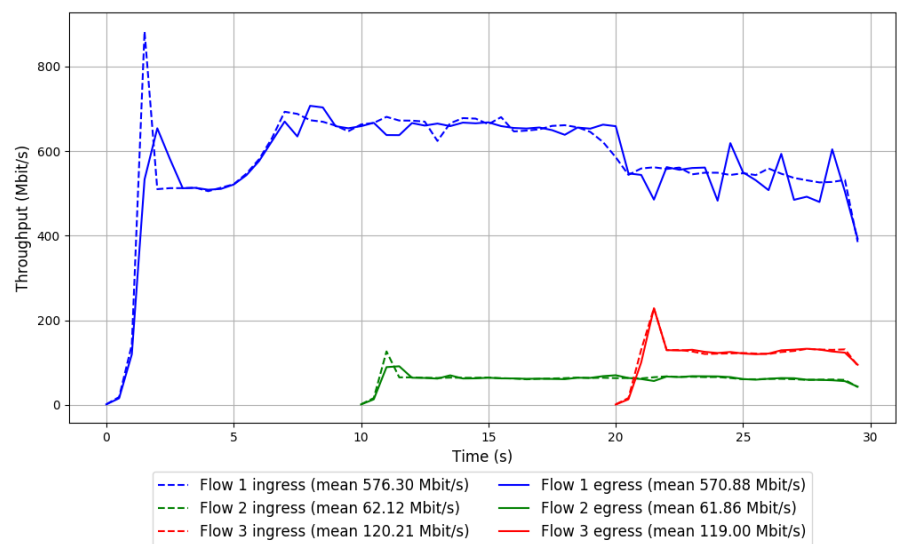
-- Flow 3:

Average throughput: 119.00 Mbit/s

95th percentile per-packet one-way delay: 133.567 ms

Loss rate: 1.05%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-12-06 07:08:57

End at: 2017-12-06 07:09:27

Below is generated by plot.py at 2017-12-06 09:13:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 640.46 Mbit/s

95th percentile per-packet one-way delay: 187.351 ms

Loss rate: 2.78%

-- Flow 1:

Average throughput: 599.37 Mbit/s

95th percentile per-packet one-way delay: 185.807 ms

Loss rate: 2.50%

-- Flow 2:

Average throughput: 4.55 Mbit/s

95th percentile per-packet one-way delay: 188.414 ms

Loss rate: 4.59%

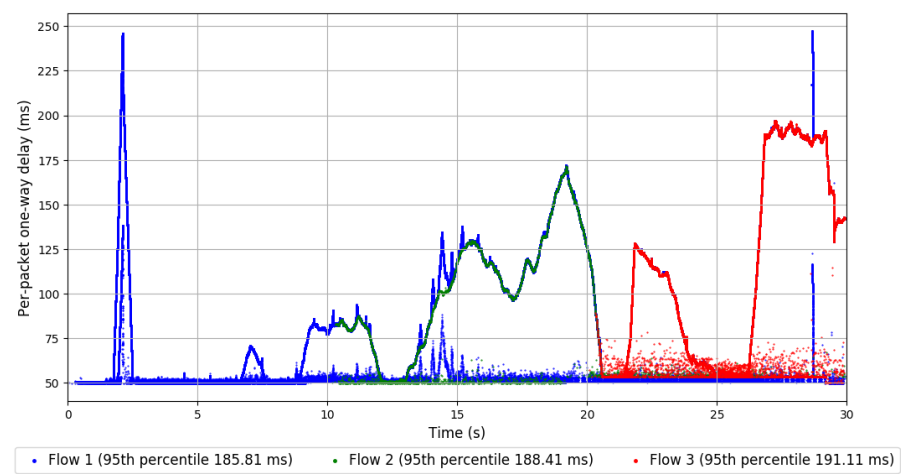
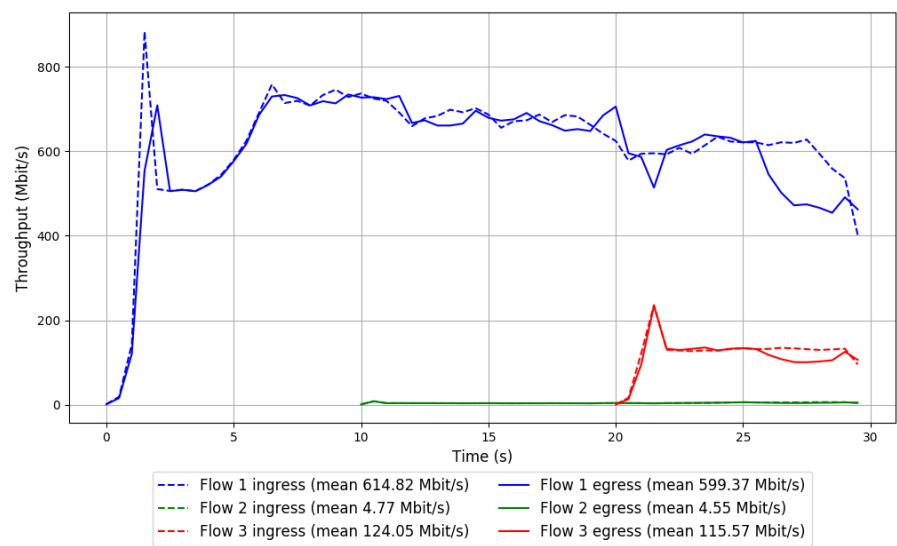
-- Flow 3:

Average throughput: 115.57 Mbit/s

95th percentile per-packet one-way delay: 191.110 ms

Loss rate: 6.87%

Run 9: Report of PCC — Data Link

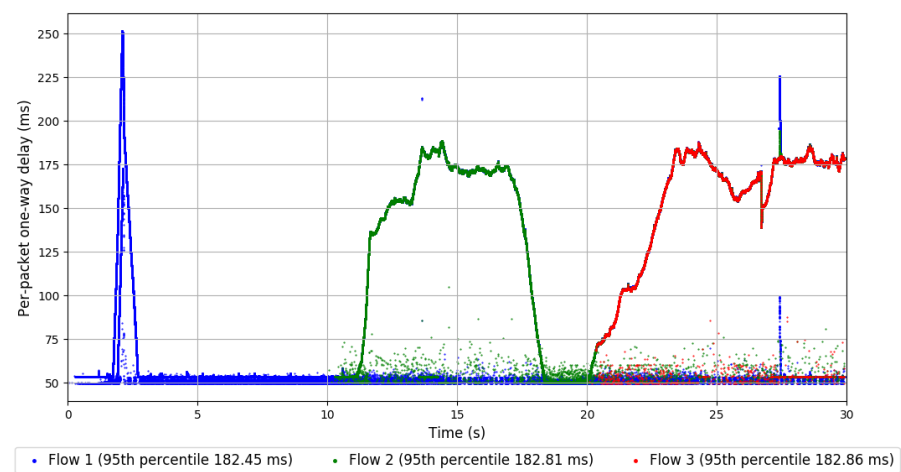
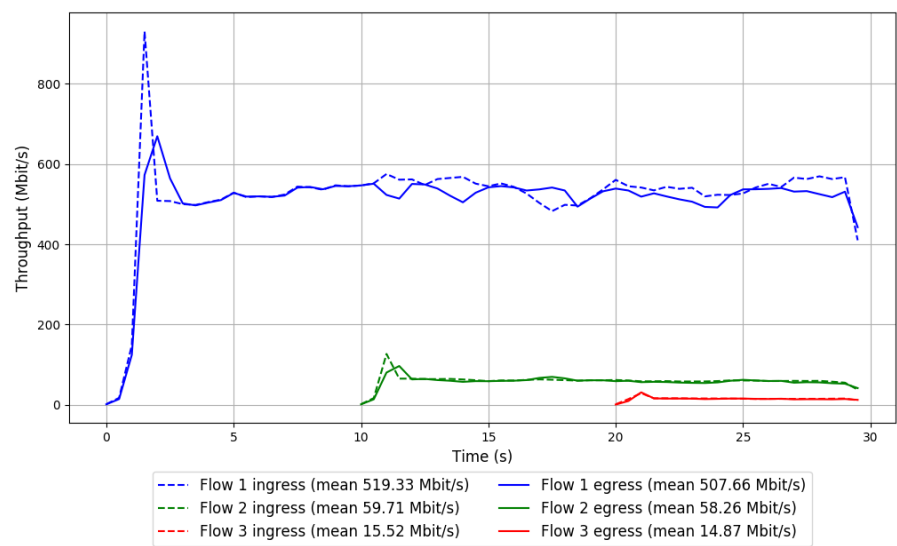


```
Run 10: Statistics of PCC

Start at: 2017-12-06 07:21:02
End at: 2017-12-06 07:21:32

# Below is generated by plot.py at 2017-12-06 09:14:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 551.25 Mbit/s
95th percentile per-packet one-way delay: 182.522 ms
Loss rate: 2.27%
-- Flow 1:
Average throughput: 507.66 Mbit/s
95th percentile per-packet one-way delay: 182.451 ms
Loss rate: 2.23%
-- Flow 2:
Average throughput: 58.26 Mbit/s
95th percentile per-packet one-way delay: 182.806 ms
Loss rate: 2.44%
-- Flow 3:
Average throughput: 14.87 Mbit/s
95th percentile per-packet one-way delay: 182.861 ms
Loss rate: 4.19%
```

Run 10: Report of PCC — Data Link

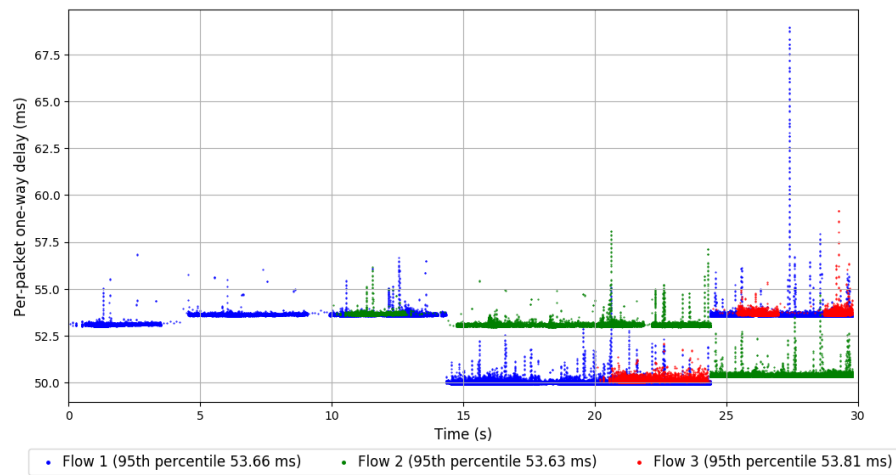
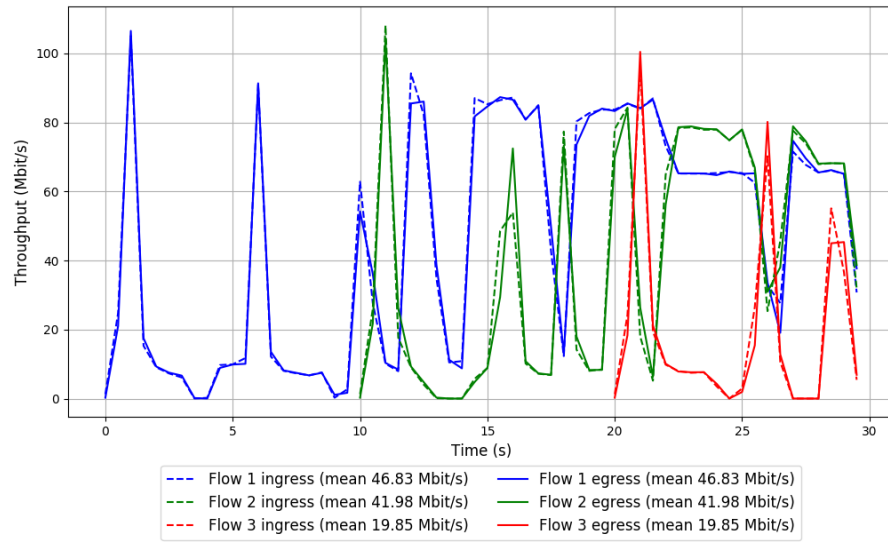


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-12-06 05:40:02
End at: 2017-12-06 05:40:32

# Below is generated by plot.py at 2017-12-06 09:14:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.14 Mbit/s
95th percentile per-packet one-way delay: 53.667 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 46.83 Mbit/s
95th percentile per-packet one-way delay: 53.658 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.98 Mbit/s
95th percentile per-packet one-way delay: 53.634 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 19.85 Mbit/s
95th percentile per-packet one-way delay: 53.811 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-12-06 05:52:31

End at: 2017-12-06 05:53:01

Below is generated by plot.py at 2017-12-06 09:14:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.21 Mbit/s

95th percentile per-packet one-way delay: 53.728 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 48.60 Mbit/s

95th percentile per-packet one-way delay: 50.235 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 34.77 Mbit/s

95th percentile per-packet one-way delay: 53.836 ms

Loss rate: 0.00%

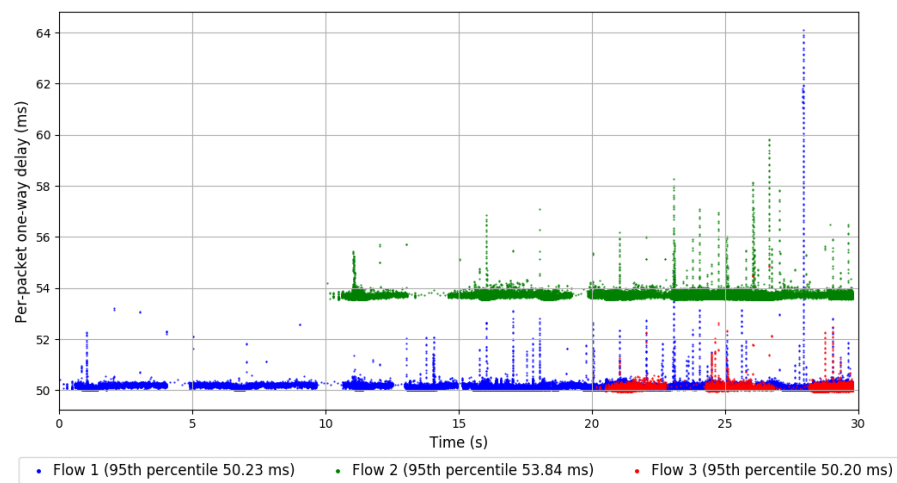
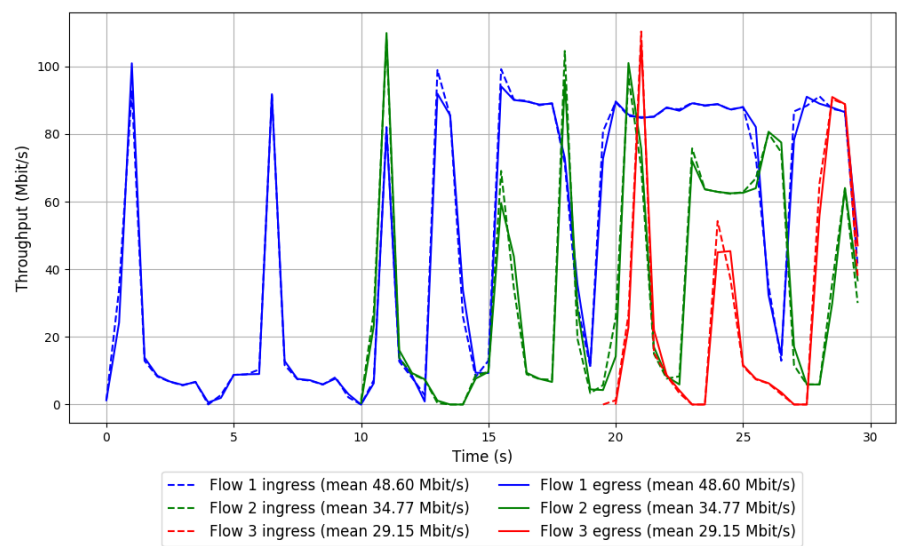
-- Flow 3:

Average throughput: 29.15 Mbit/s

95th percentile per-packet one-way delay: 50.197 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link

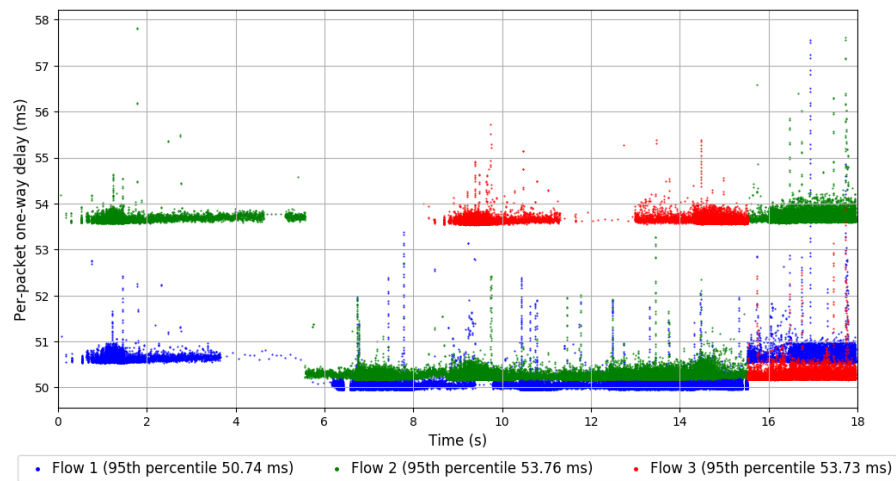
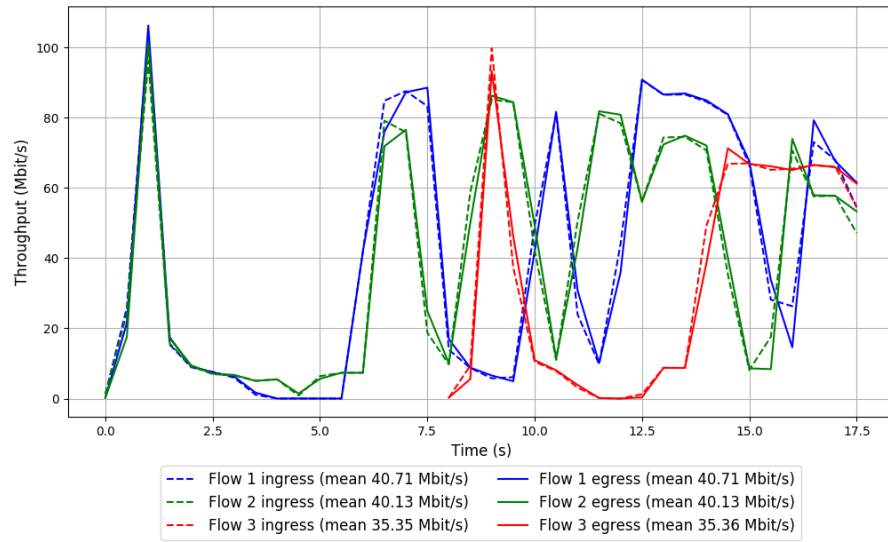


Run 3: Statistics of QUIC Cubic

Start at: 2017-12-06 06:04:49

End at: 2017-12-06 06:05:19

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-12-06 06:17:01

End at: 2017-12-06 06:17:31

Below is generated by plot.py at 2017-12-06 09:14:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.35 Mbit/s

95th percentile per-packet one-way delay: 53.671 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.09 Mbit/s

95th percentile per-packet one-way delay: 53.691 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 27.04 Mbit/s

95th percentile per-packet one-way delay: 50.198 ms

Loss rate: 0.00%

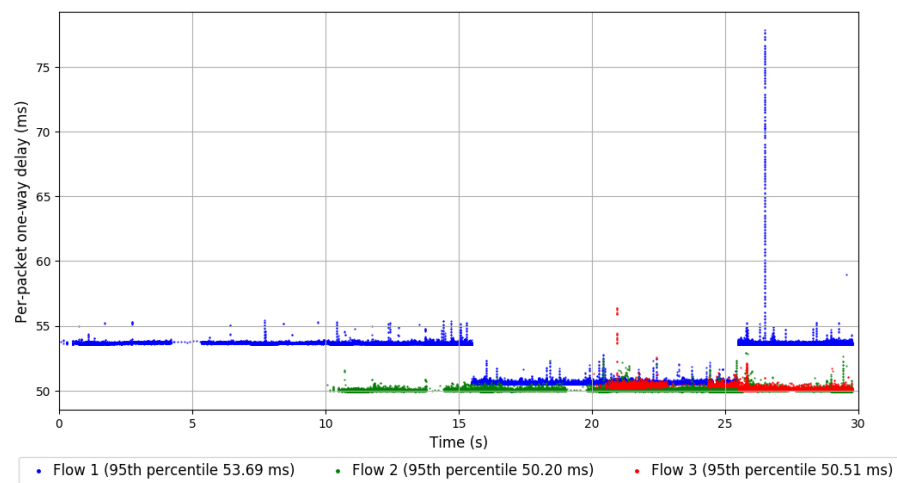
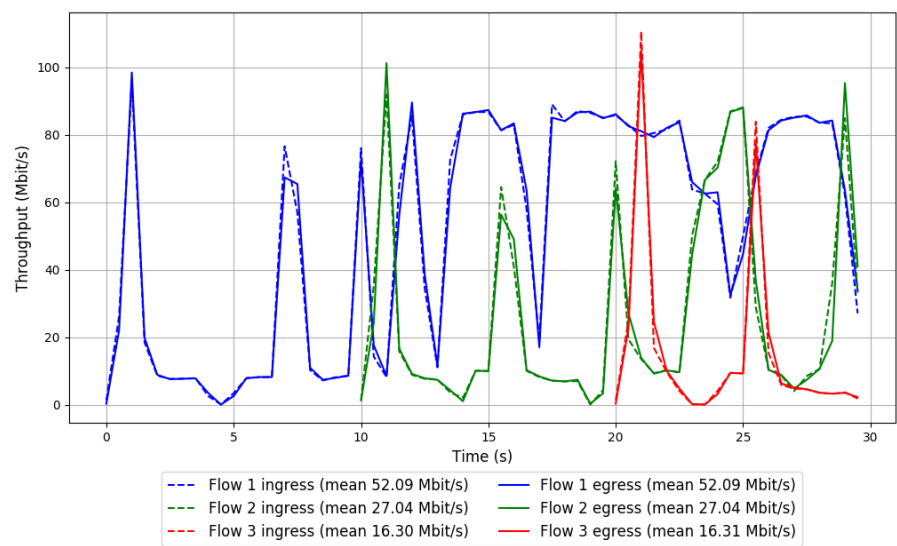
-- Flow 3:

Average throughput: 16.31 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-12-06 06:29:02

End at: 2017-12-06 06:29:32

Below is generated by plot.py at 2017-12-06 09:14:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.75 Mbit/s

95th percentile per-packet one-way delay: 53.717 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 38.43 Mbit/s

95th percentile per-packet one-way delay: 50.304 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 44.07 Mbit/s

95th percentile per-packet one-way delay: 50.515 ms

Loss rate: 0.00%

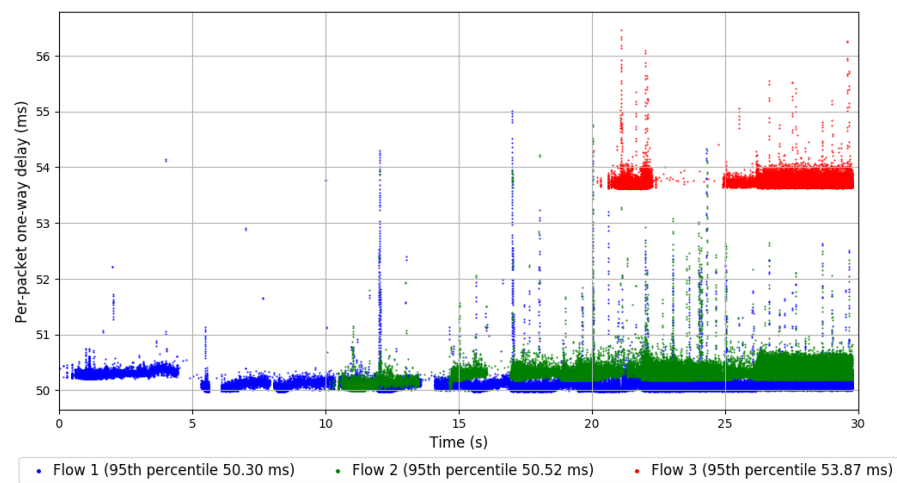
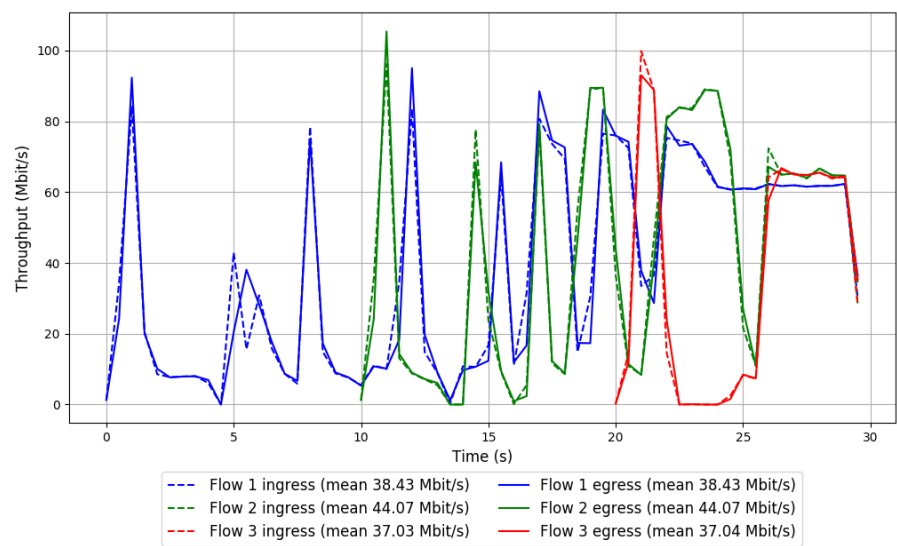
-- Flow 3:

Average throughput: 37.04 Mbit/s

95th percentile per-packet one-way delay: 53.872 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-12-06 06:41:20

End at: 2017-12-06 06:41:50

Below is generated by plot.py at 2017-12-06 09:14:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.35 Mbit/s

95th percentile per-packet one-way delay: 53.091 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 46.14 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 44.92 Mbit/s

95th percentile per-packet one-way delay: 50.460 ms

Loss rate: 0.00%

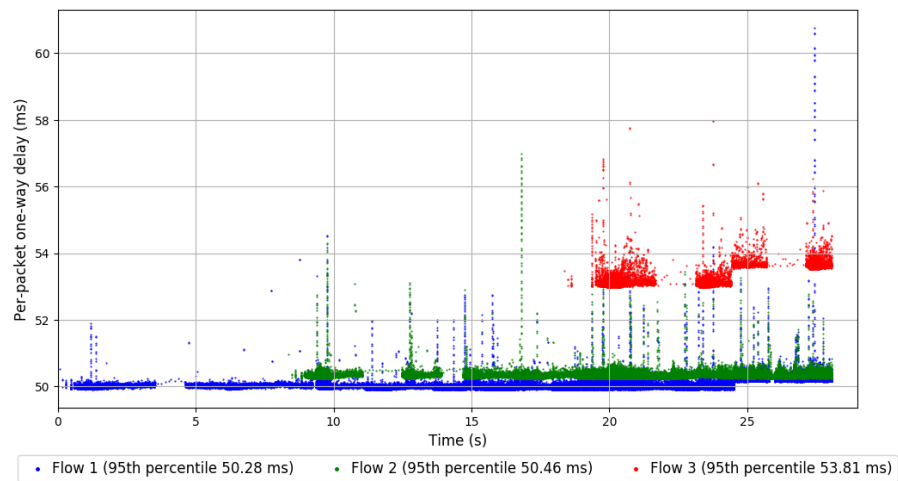
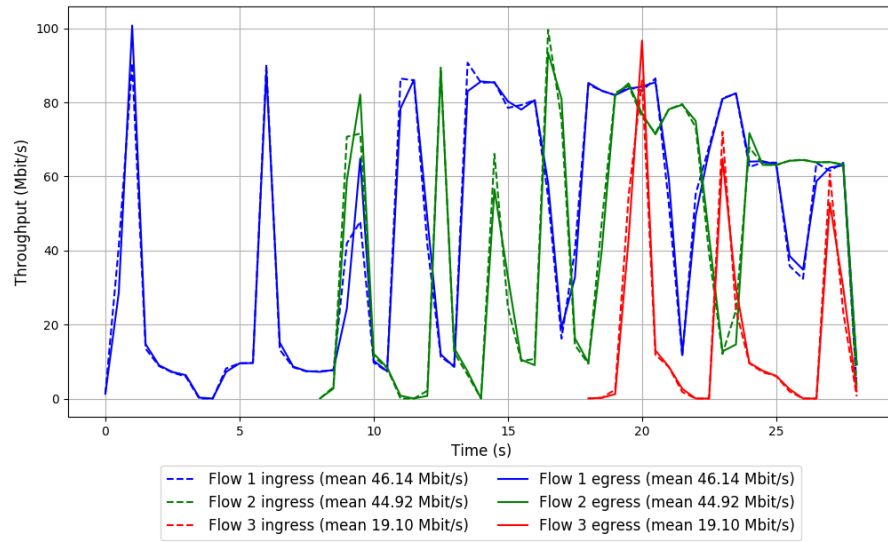
-- Flow 3:

Average throughput: 19.10 Mbit/s

95th percentile per-packet one-way delay: 53.815 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-12-06 06:53:17

End at: 2017-12-06 06:53:47

Below is generated by plot.py at 2017-12-06 09:14:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.45 Mbit/s

95th percentile per-packet one-way delay: 53.683 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 54.96 Mbit/s

95th percentile per-packet one-way delay: 53.654 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 41.53 Mbit/s

95th percentile per-packet one-way delay: 53.725 ms

Loss rate: 0.02%

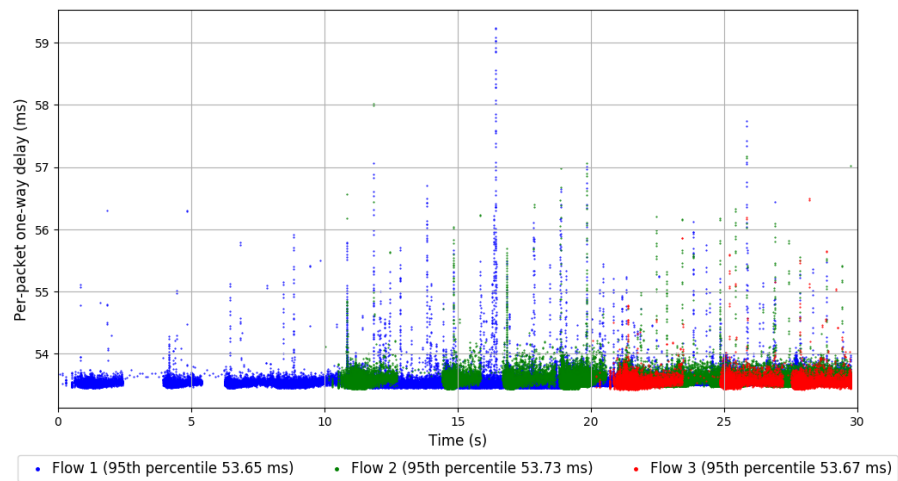
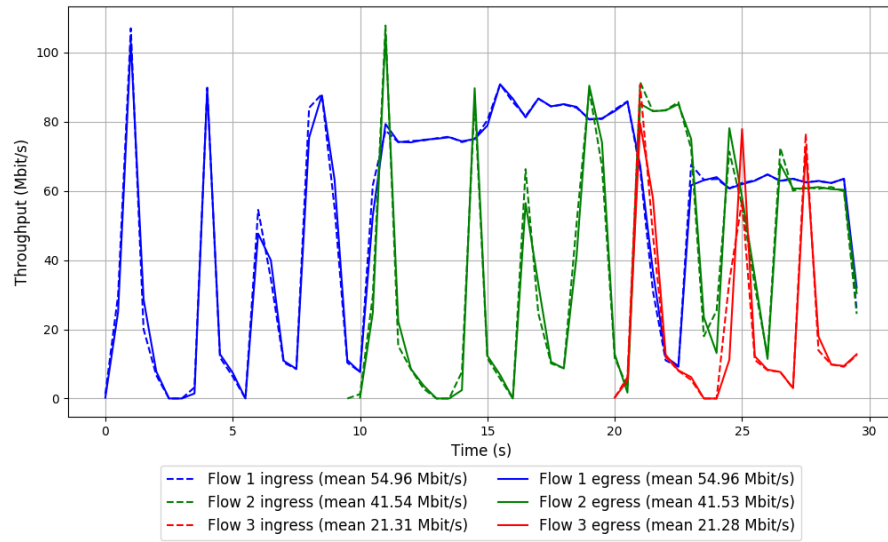
-- Flow 3:

Average throughput: 21.28 Mbit/s

95th percentile per-packet one-way delay: 53.671 ms

Loss rate: 0.15%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-12-06 07:05:43

End at: 2017-12-06 07:06:13

Below is generated by plot.py at 2017-12-06 09:14:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.81 Mbit/s

95th percentile per-packet one-way delay: 53.609 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.99 Mbit/s

95th percentile per-packet one-way delay: 53.638 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 34.65 Mbit/s

95th percentile per-packet one-way delay: 50.850 ms

Loss rate: 0.00%

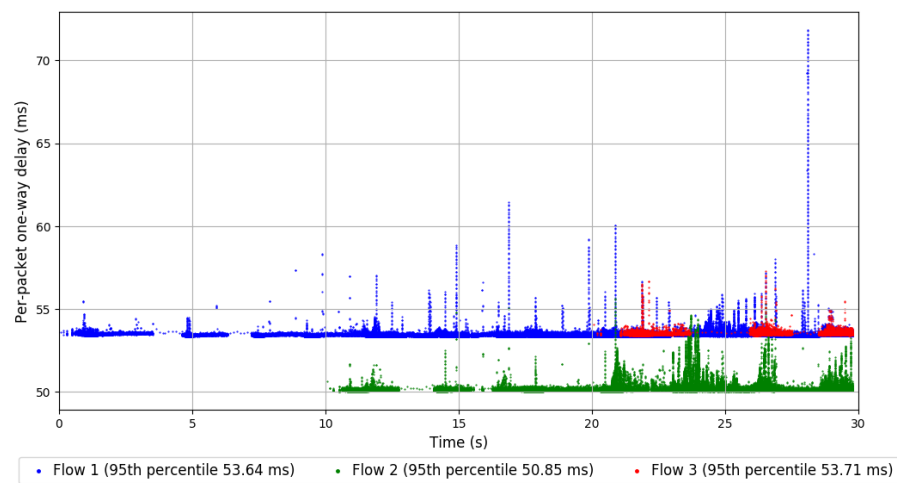
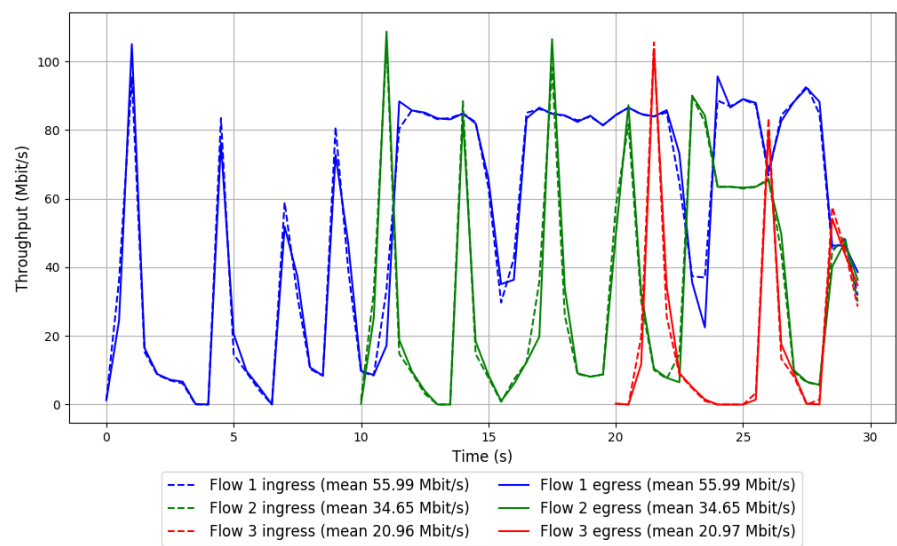
-- Flow 3:

Average throughput: 20.97 Mbit/s

95th percentile per-packet one-way delay: 53.712 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-12-06 07:17:51

End at: 2017-12-06 07:18:21

Below is generated by plot.py at 2017-12-06 09:14:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.51 Mbit/s

95th percentile per-packet one-way delay: 52.956 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.12 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 30.68 Mbit/s

95th percentile per-packet one-way delay: 53.001 ms

Loss rate: 0.00%

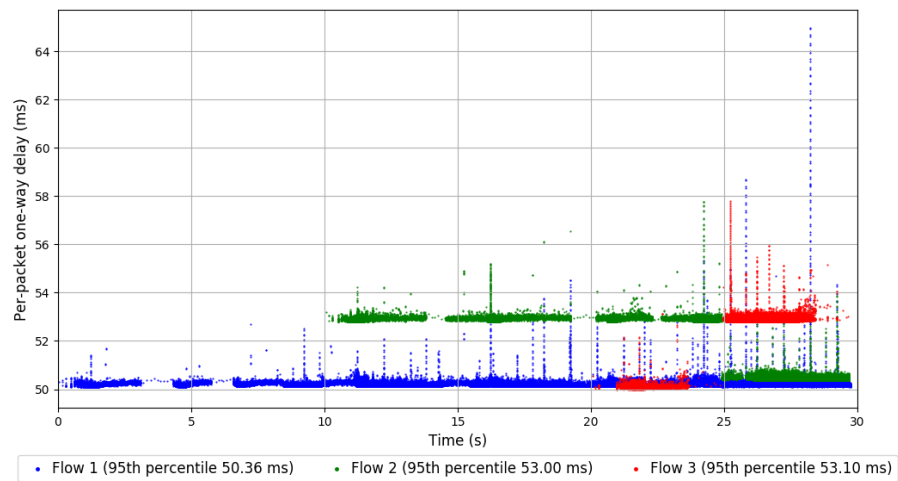
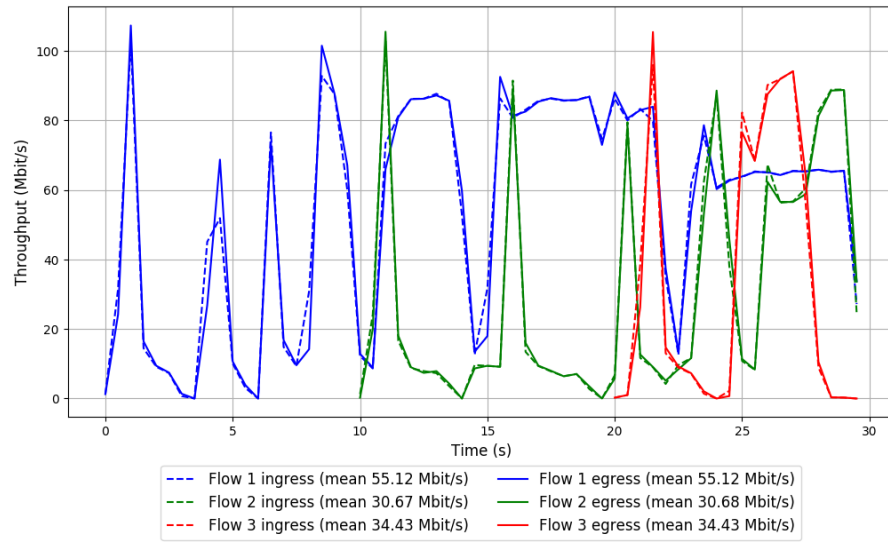
-- Flow 3:

Average throughput: 34.43 Mbit/s

95th percentile per-packet one-way delay: 53.102 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

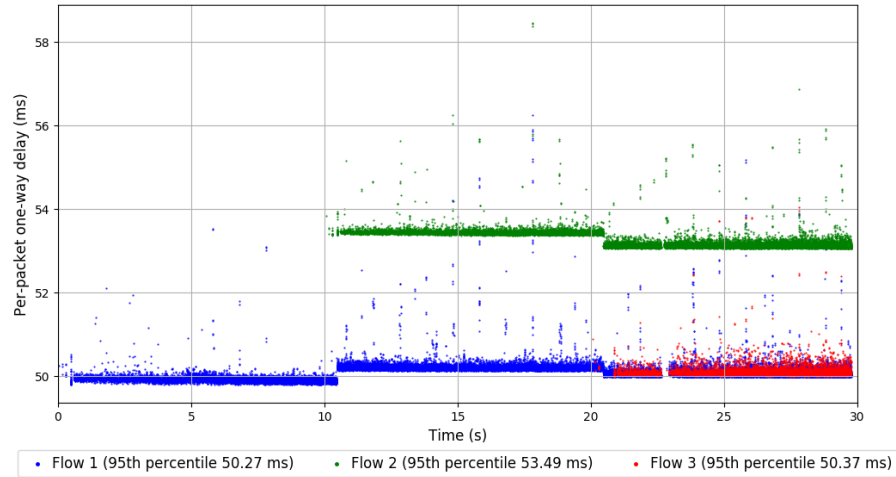
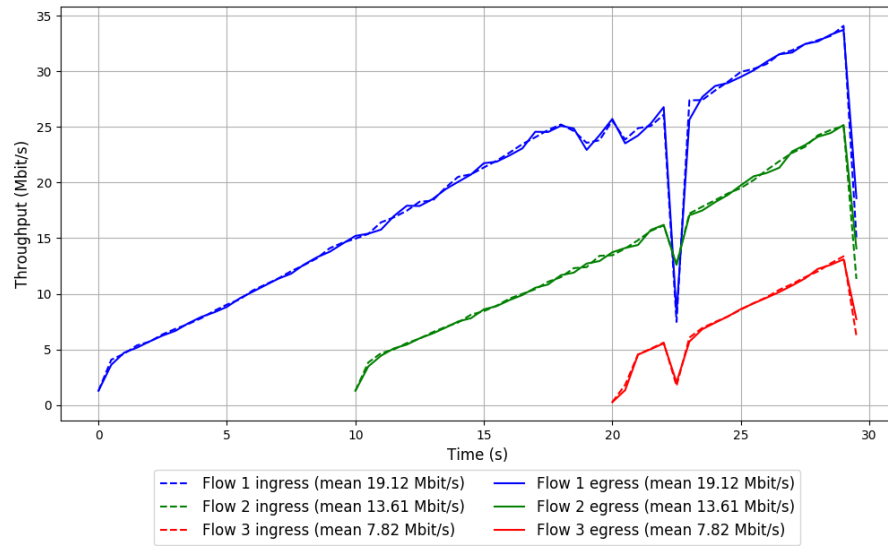


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-12-06 07:29:46
End at: 2017-12-06 07:30:16

# Below is generated by plot.py at 2017-12-06 09:14:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.70 Mbit/s
95th percentile per-packet one-way delay: 53.438 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 19.12 Mbit/s
95th percentile per-packet one-way delay: 50.273 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 13.61 Mbit/s
95th percentile per-packet one-way delay: 53.488 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.82 Mbit/s
95th percentile per-packet one-way delay: 50.372 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

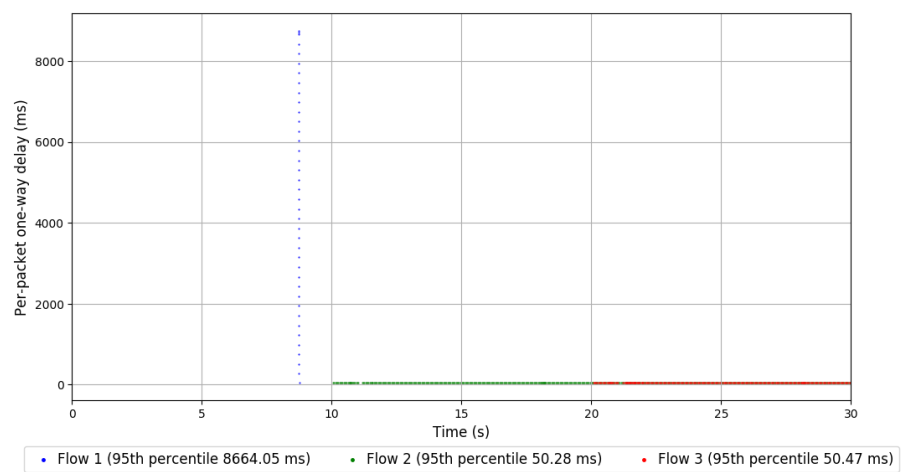
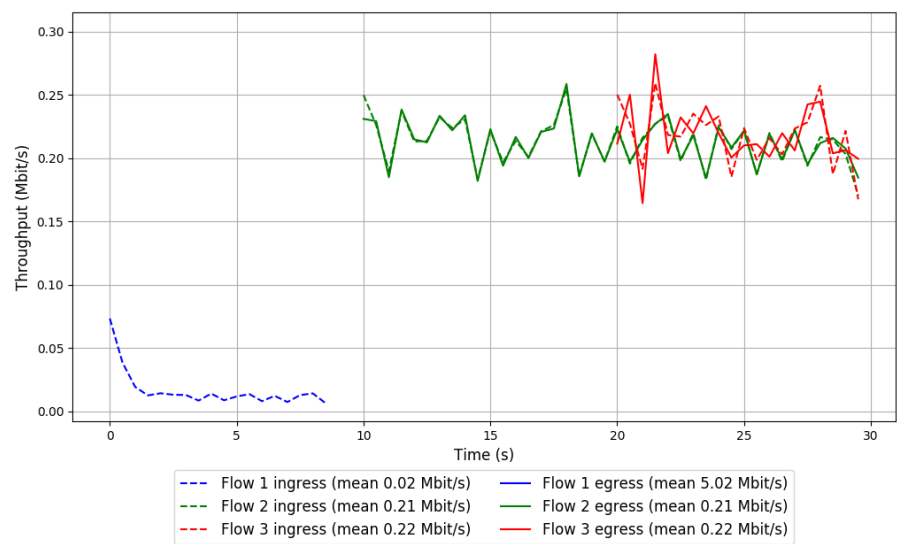


Run 1: Statistics of SReAM

Start at: 2017-12-06 05:41:27

End at: 2017-12-06 05:41:57

Run 1: Report of SReAM — Data Link

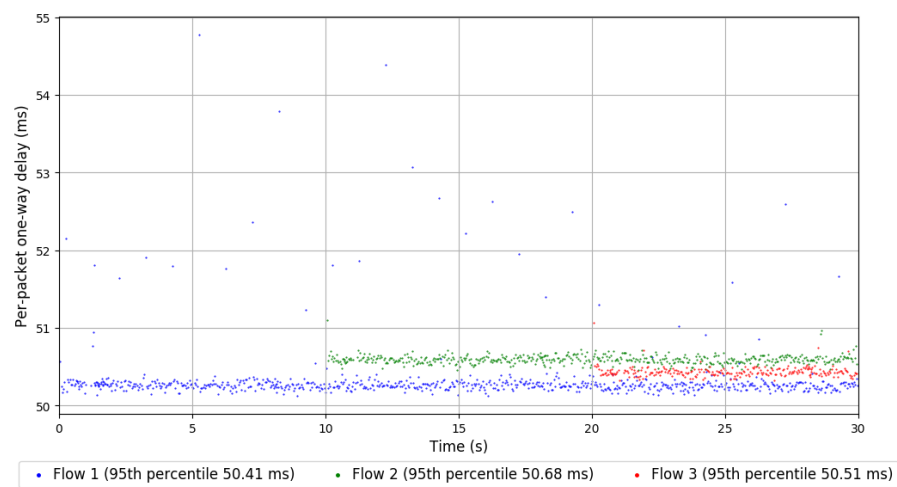
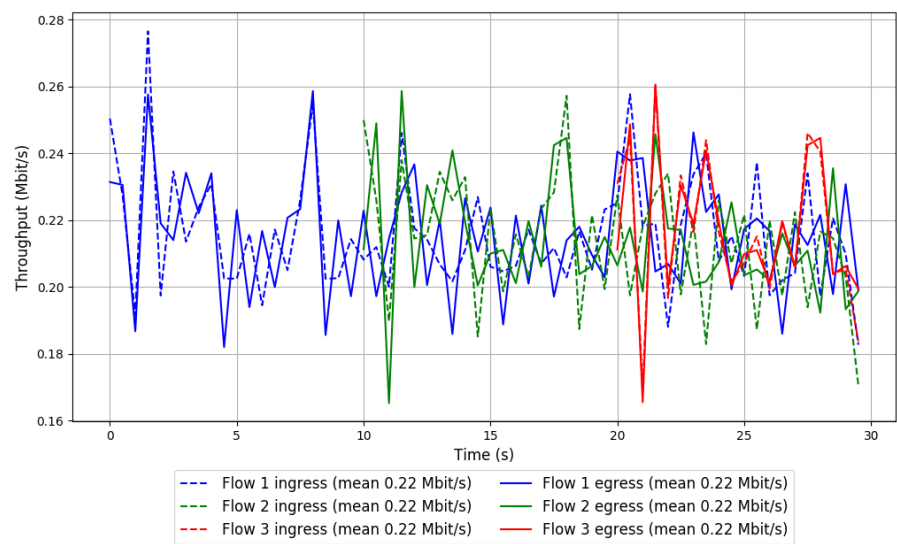


```
Run 2: Statistics of SReAM

Start at: 2017-12-06 05:53:56
End at: 2017-12-06 05:54:26

# Below is generated by plot.py at 2017-12-06 09:14:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.662 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.412 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.678 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.506 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

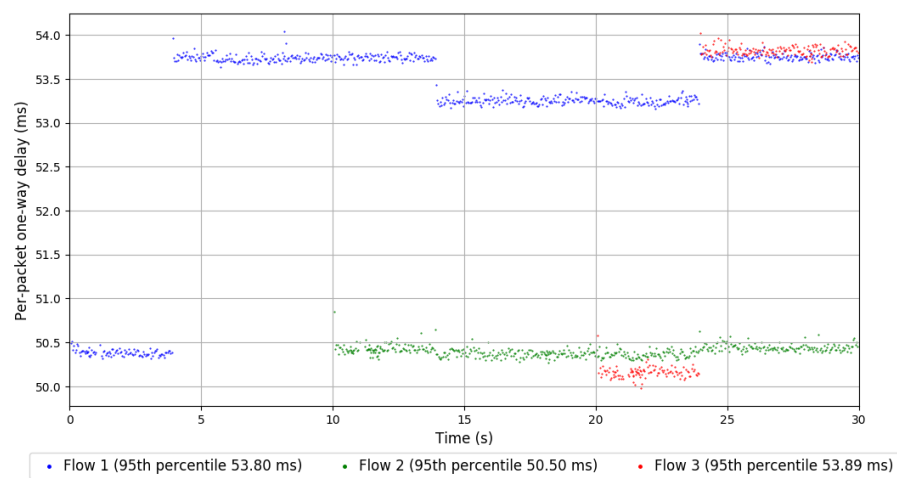
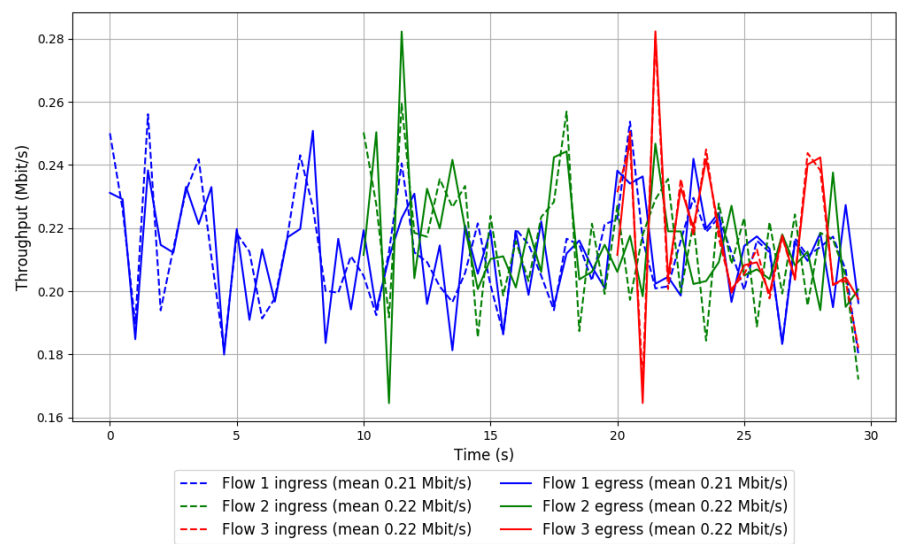


```
Run 3: Statistics of SReAM

Start at: 2017-12-06 06:06:13
End at: 2017-12-06 06:06:43

# Below is generated by plot.py at 2017-12-06 09:14:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.827 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.796 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.497 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.894 ms
Loss rate: 0.00%
```


Run 3: Report of SReAM — Data Link

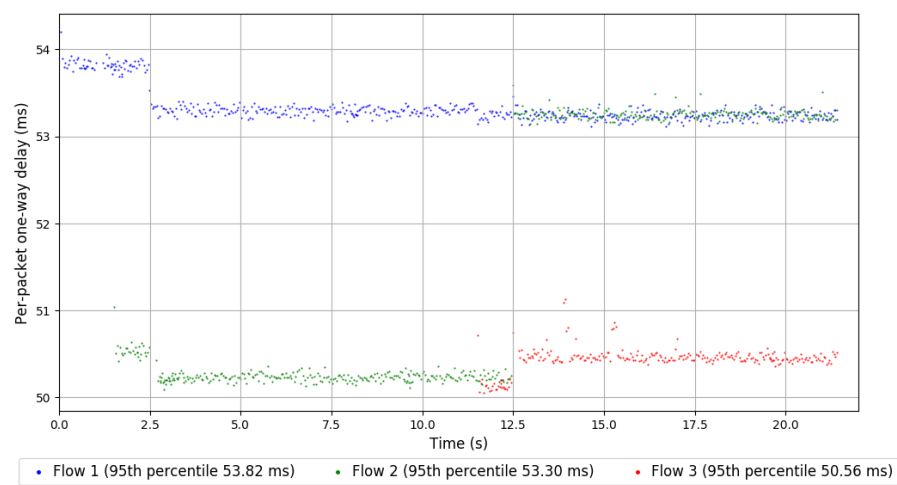
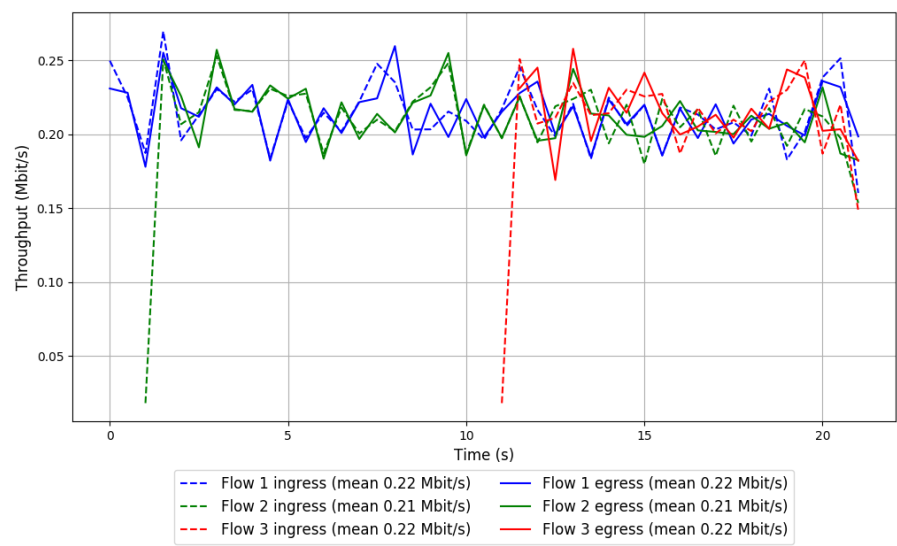


Run 4: Statistics of SReAM

Start at: 2017-12-06 06:18:25

End at: 2017-12-06 06:18:55

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-12-06 06:30:27

End at: 2017-12-06 06:30:57

Below is generated by plot.py at 2017-12-06 09:14:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.843 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.249 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.754 ms

Loss rate: 0.00%

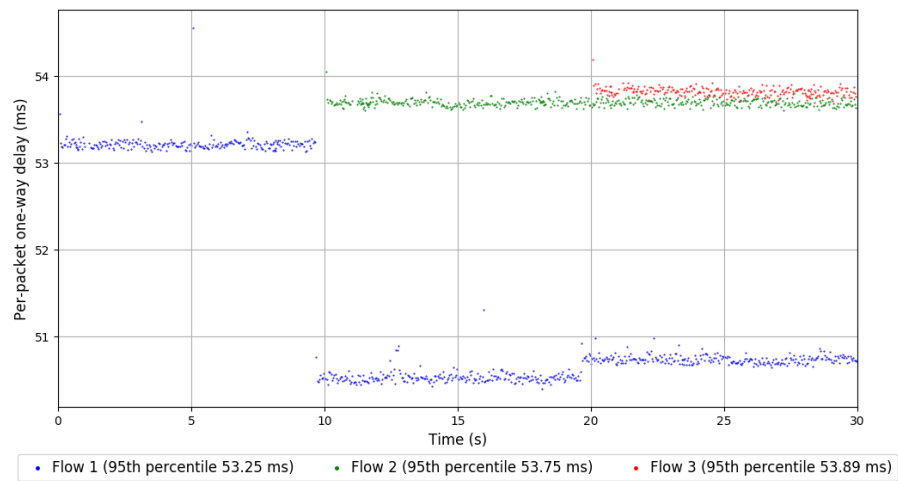
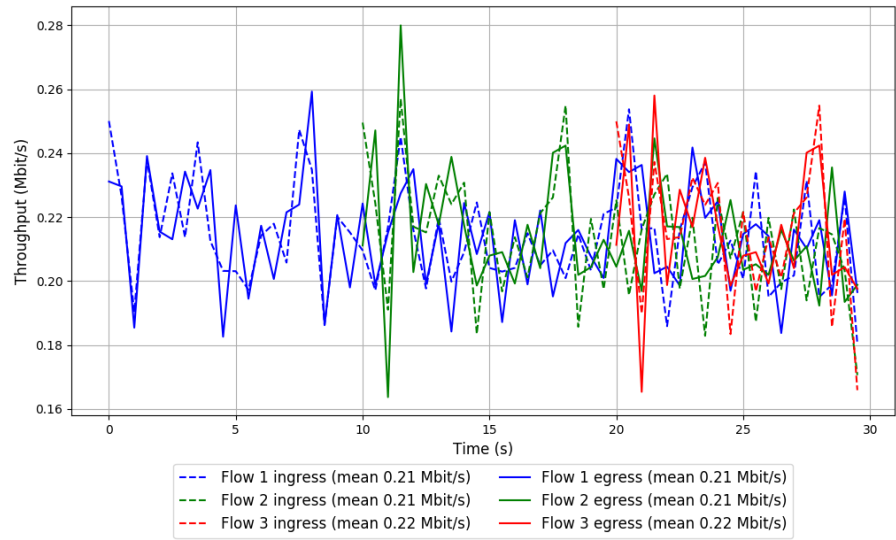
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.892 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2017-12-06 06:42:45

End at: 2017-12-06 06:43:15

Below is generated by plot.py at 2017-12-06 09:14:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.766 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.785 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.440 ms

Loss rate: 0.00%

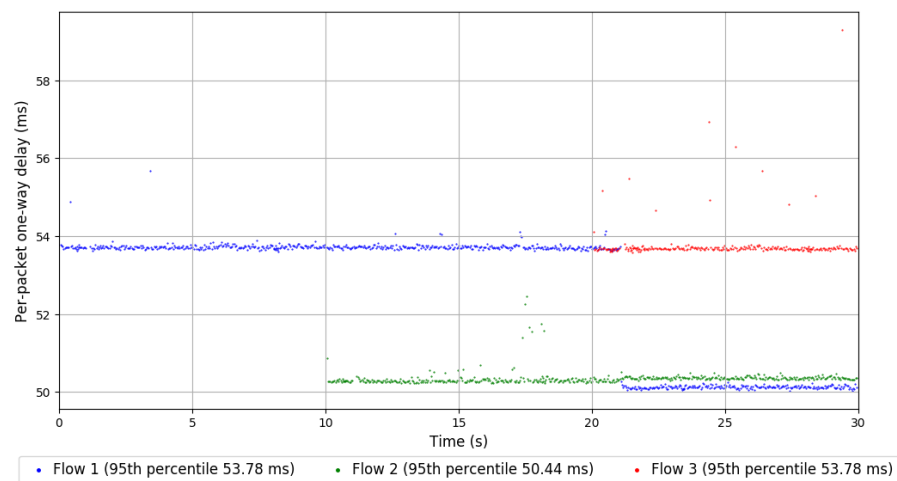
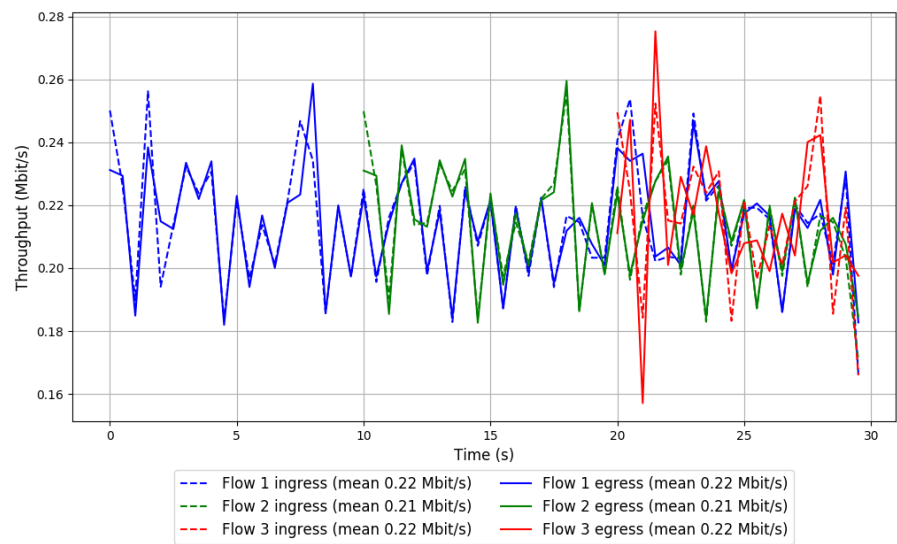
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.779 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

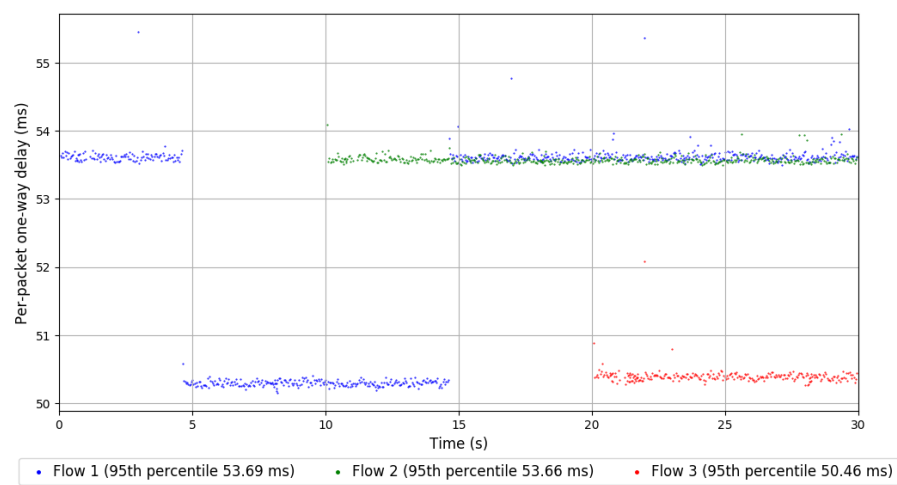
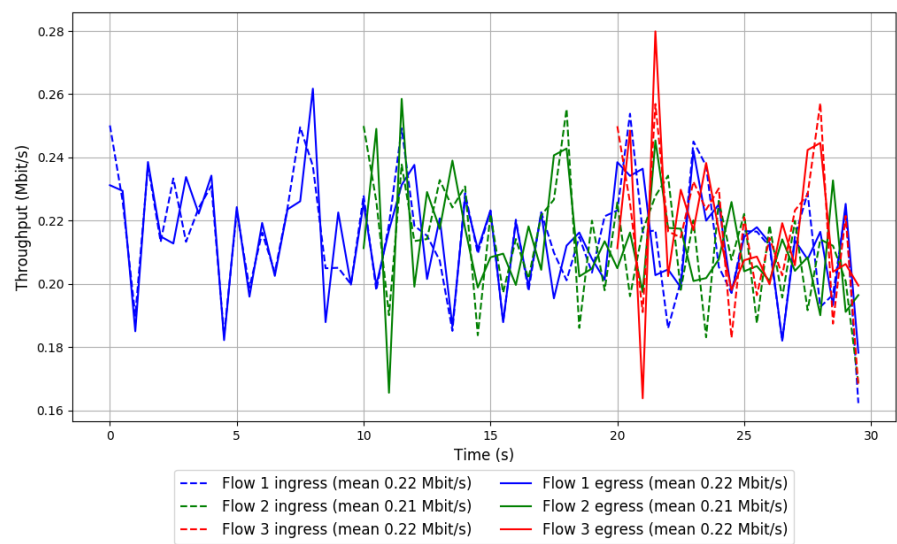


```
Run 7: Statistics of SReAM

Start at: 2017-12-06 06:54:42
End at: 2017-12-06 06:55:12

# Below is generated by plot.py at 2017-12-06 09:14:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.673 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.692 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.659 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.457 ms
Loss rate: 0.00%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-12-06 07:07:09

End at: 2017-12-06 07:07:39

Below is generated by plot.py at 2017-12-06 09:14:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.733 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.589 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.887 ms

Loss rate: 0.00%

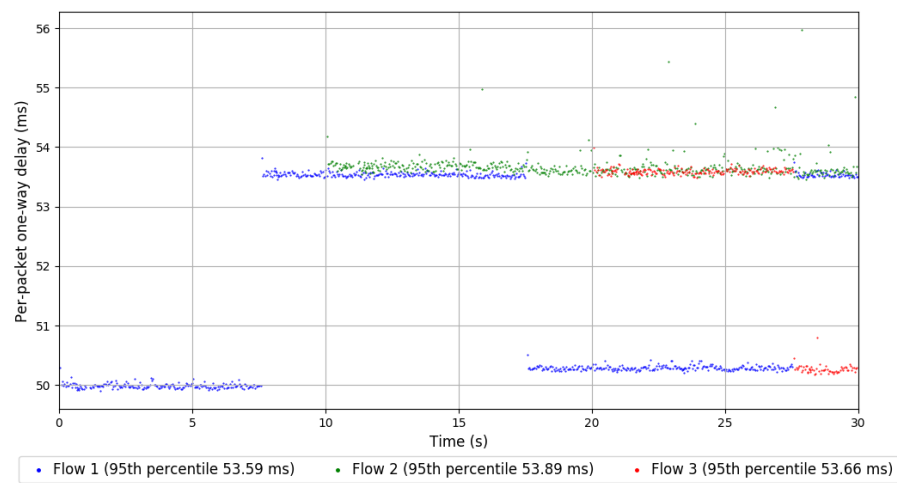
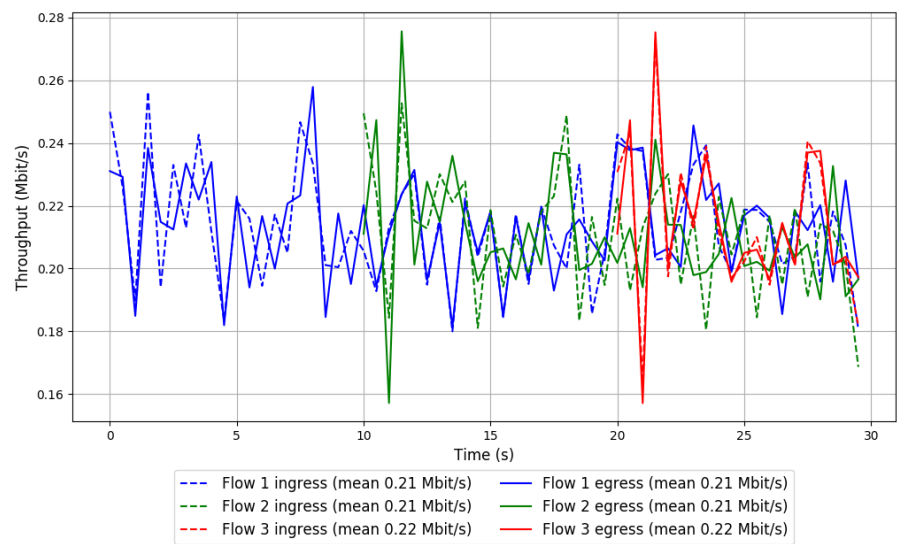
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.659 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2017-12-06 07:19:16

End at: 2017-12-06 07:19:46

Below is generated by plot.py at 2017-12-06 09:14:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.614 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.349 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.651 ms

Loss rate: 0.00%

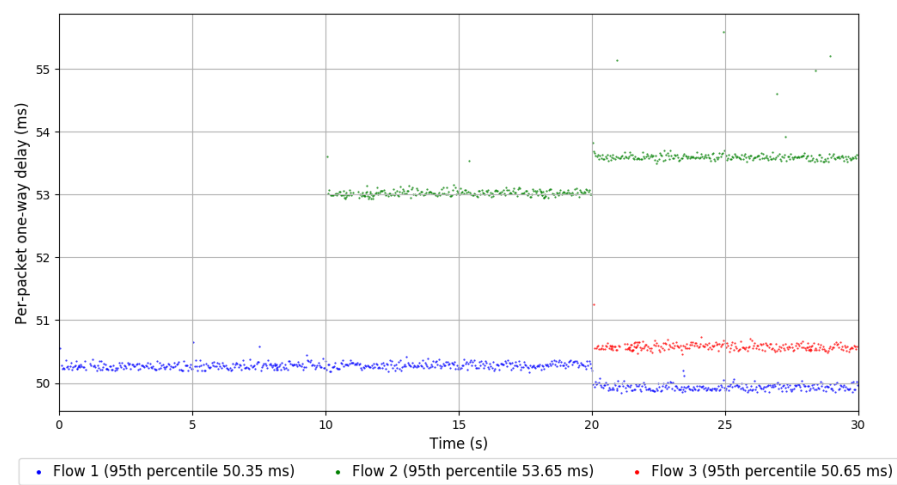
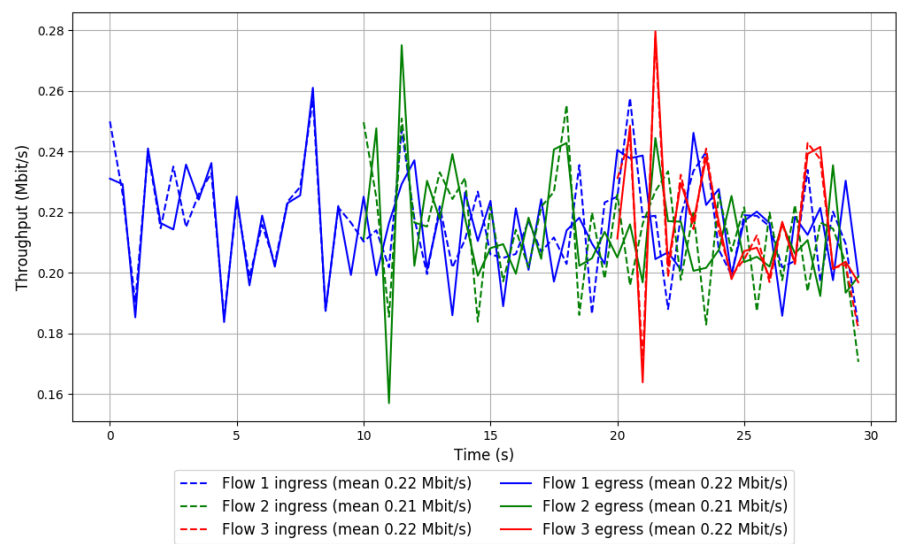
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.652 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

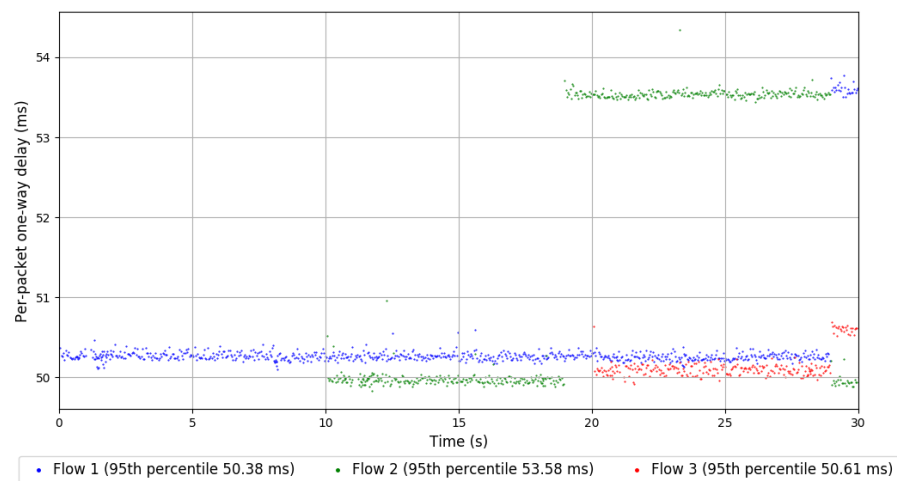
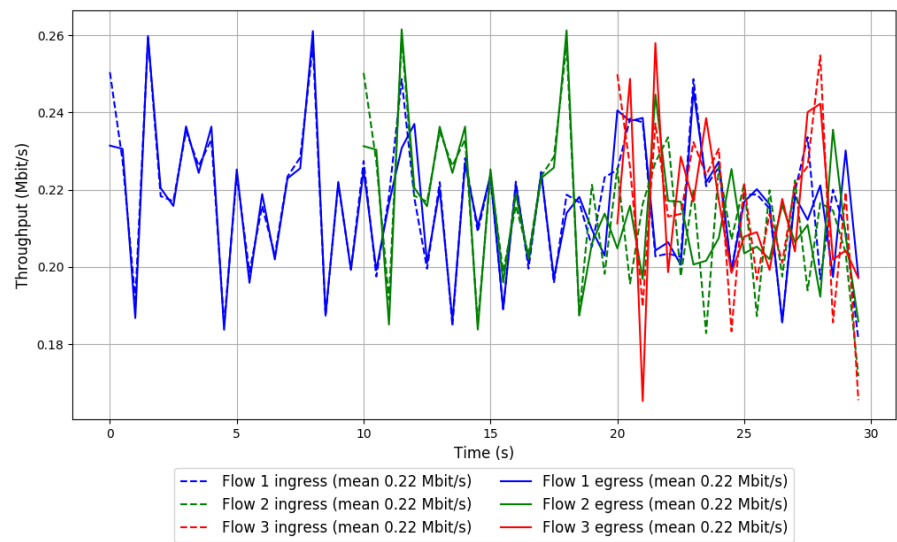


```
Run 10: Statistics of SReAM

Start at: 2017-12-06 07:31:08
End at: 2017-12-06 07:31:38

# Below is generated by plot.py at 2017-12-06 09:14:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.560 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.376 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.584 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.614 ms
Loss rate: 0.00%
```

Run 10: Report of SCReAM — Data Link

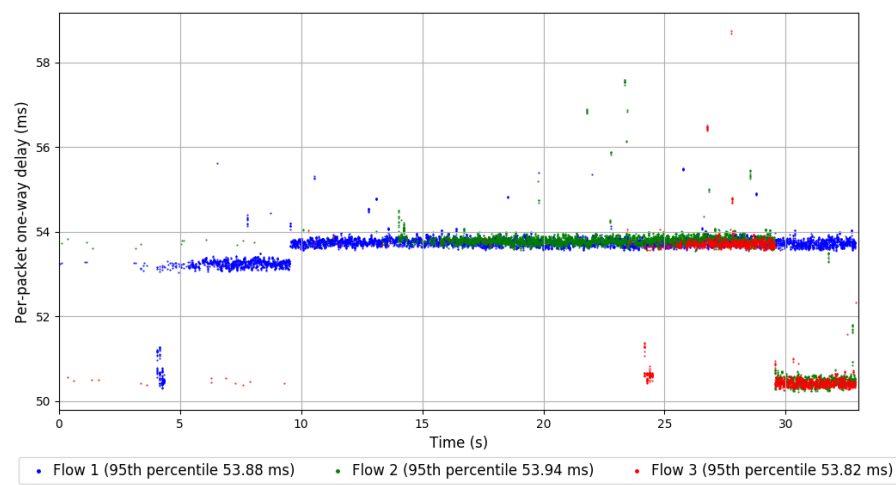
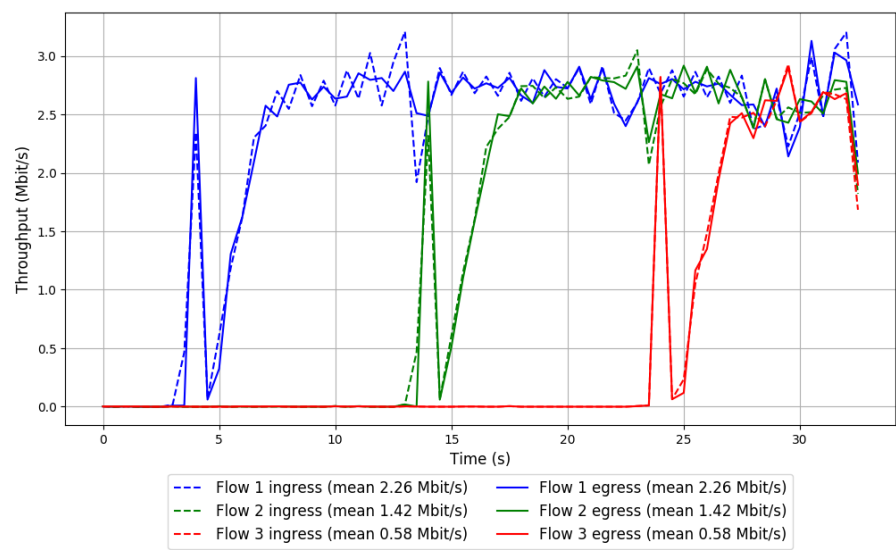


```
Run 1: Statistics of WebRTC media

Start at: 2017-12-06 05:33:20
End at: 2017-12-06 05:33:50

# Below is generated by plot.py at 2017-12-06 09:14:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.25 Mbit/s
95th percentile per-packet one-way delay: 53.906 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 53.880 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 53.944 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 53.822 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link

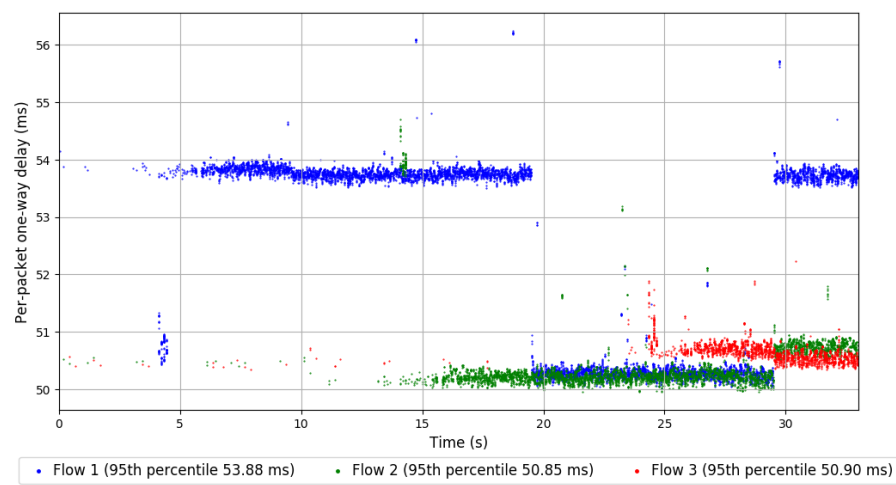
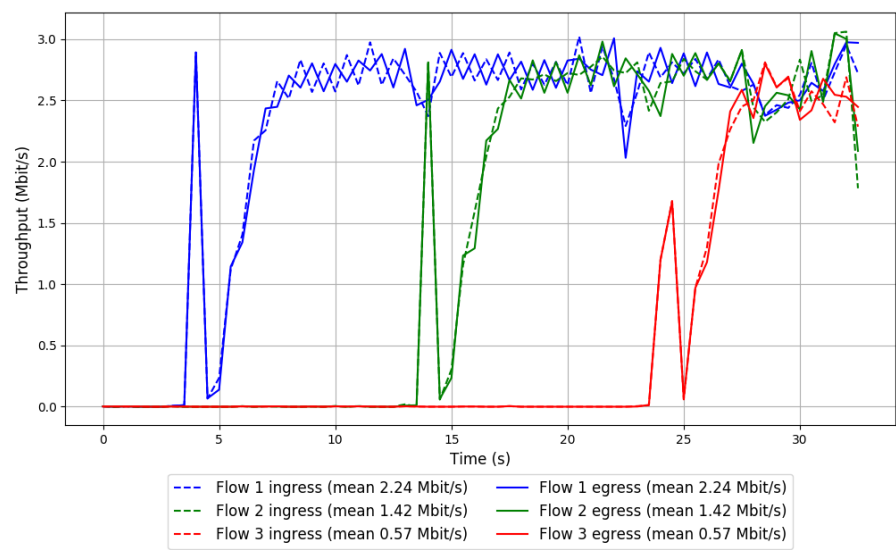


```
Run 2: Statistics of WebRTC media

Start at: 2017-12-06 05:45:20
End at: 2017-12-06 05:45:50

# Below is generated by plot.py at 2017-12-06 09:14:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.22 Mbit/s
95th percentile per-packet one-way delay: 53.853 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 53.881 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 50.850 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 50.895 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-12-06 05:57:40

End at: 2017-12-06 05:58:10

Below is generated by plot.py at 2017-12-06 09:14:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.22 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 50.807 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 53.961 ms

Loss rate: 0.00%

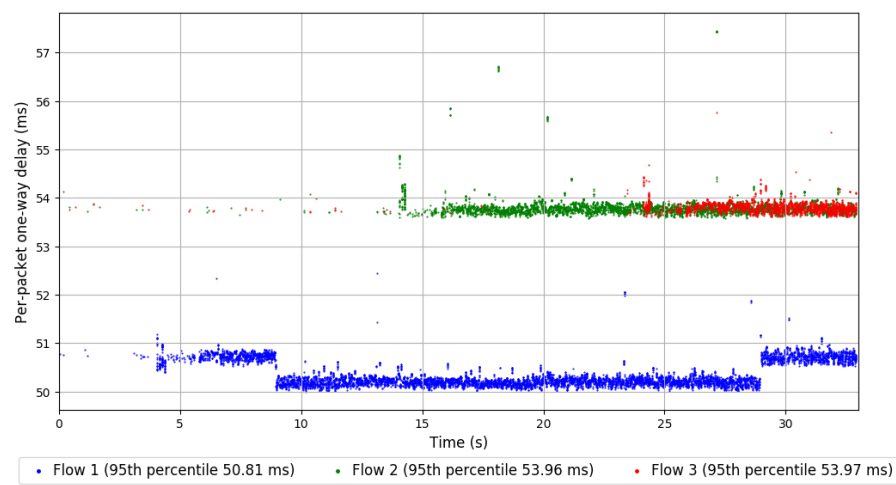
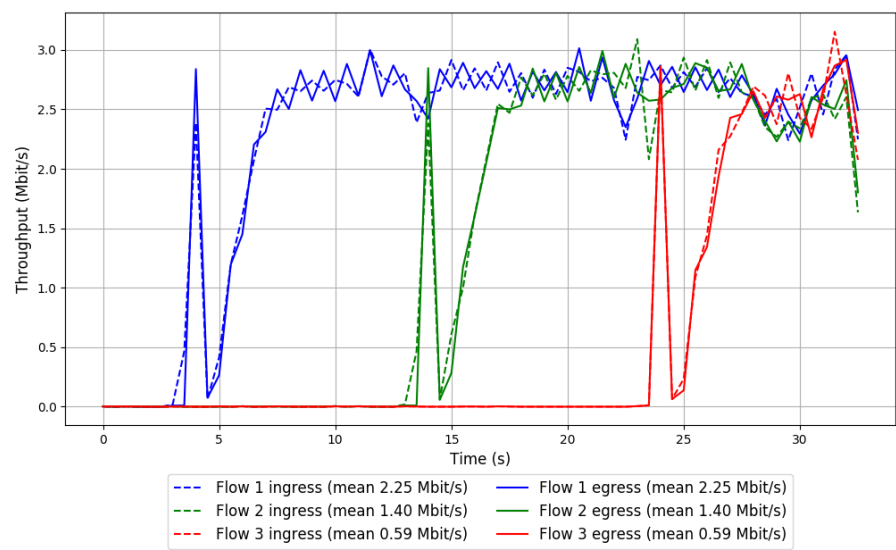
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 53.968 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-12-06 06:10:06

End at: 2017-12-06 06:10:36

Below is generated by plot.py at 2017-12-06 09:14:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 53.301 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 50.803 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 50.607 ms

Loss rate: 0.00%

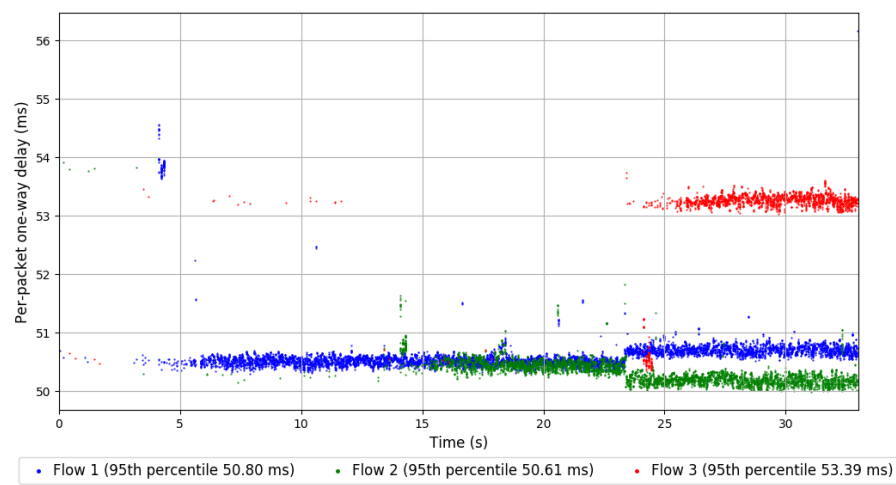
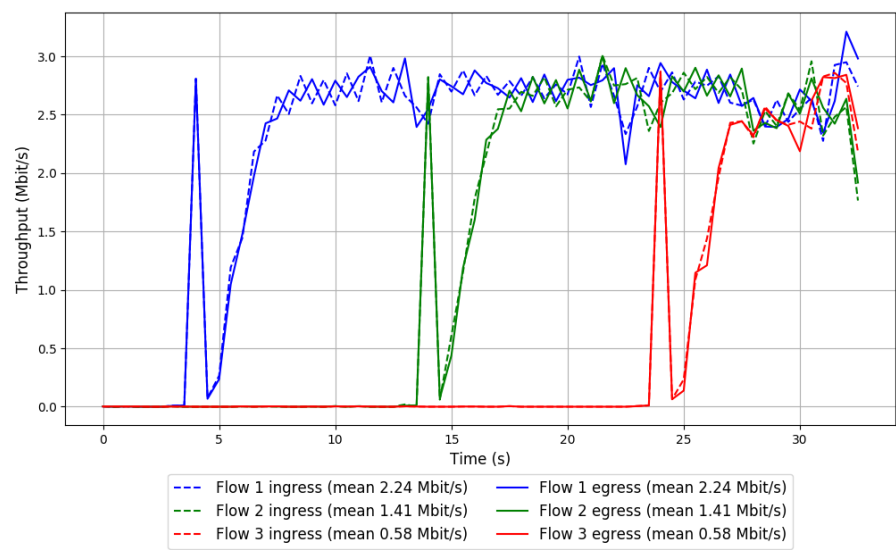
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 53.394 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-12-06 06:22:17

End at: 2017-12-06 06:22:47

Below is generated by plot.py at 2017-12-06 09:14:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 53.945 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 53.936 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 53.916 ms

Loss rate: 0.00%

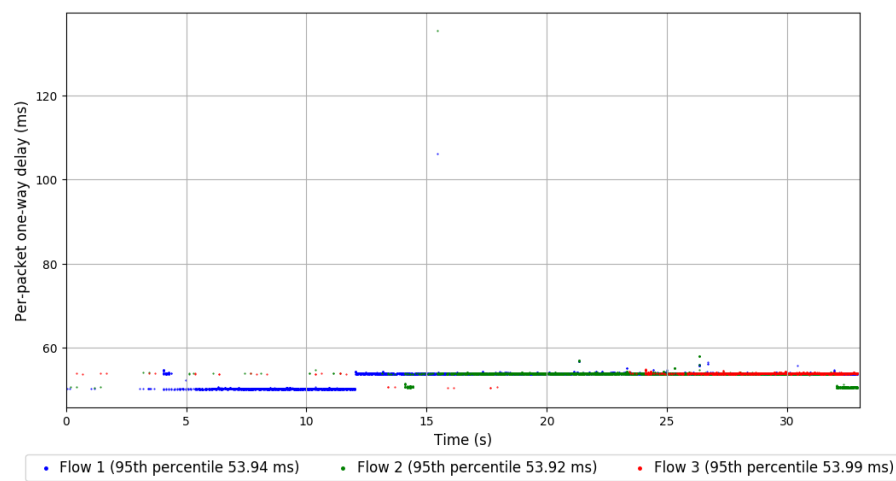
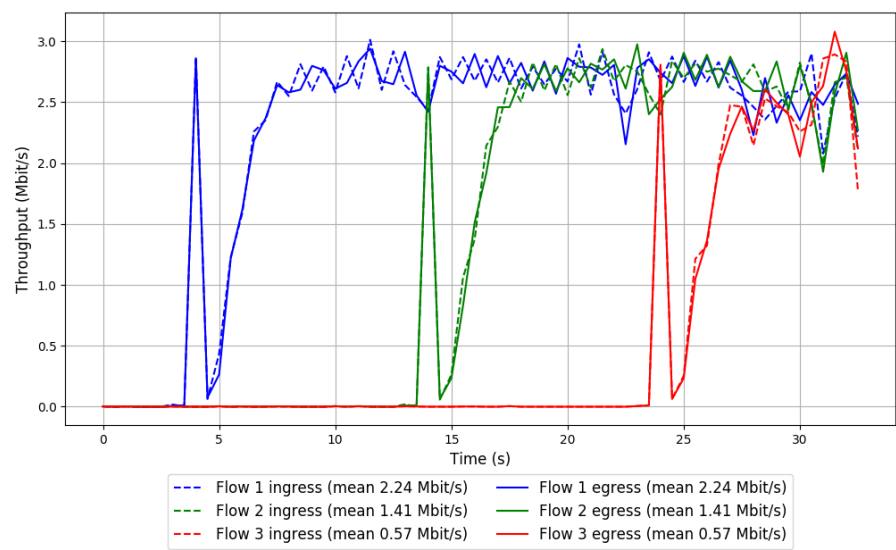
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 53.988 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-12-06 06:34:20

End at: 2017-12-06 06:34:50

Below is generated by plot.py at 2017-12-06 09:14:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.27 Mbit/s

95th percentile per-packet one-way delay: 53.868 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.26 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 53.893 ms

Loss rate: 0.00%

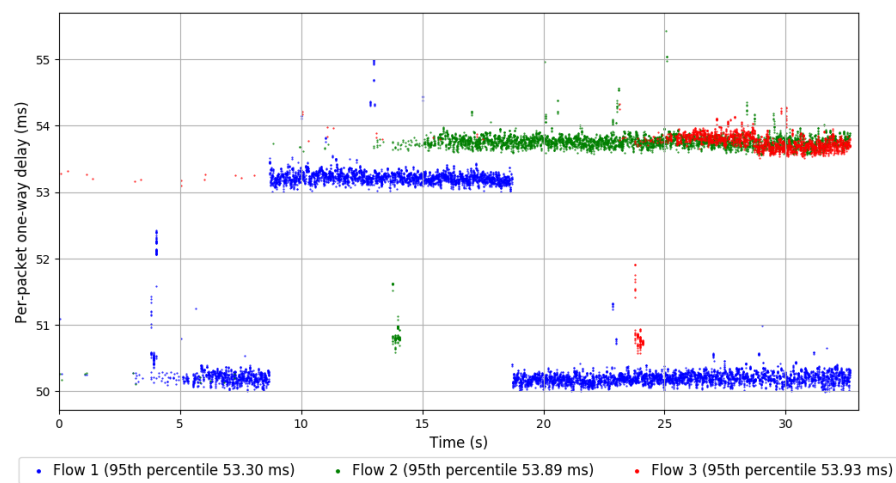
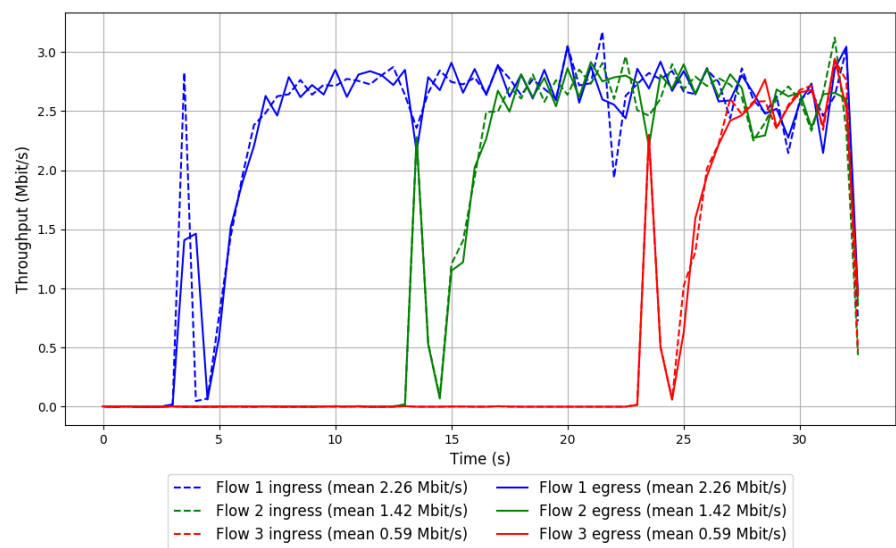
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 53.928 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-12-06 06:46:37

End at: 2017-12-06 06:47:07

Below is generated by plot.py at 2017-12-06 09:14:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.33 Mbit/s

95th percentile per-packet one-way delay: 53.806 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 53.262 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 53.885 ms

Loss rate: 0.02%

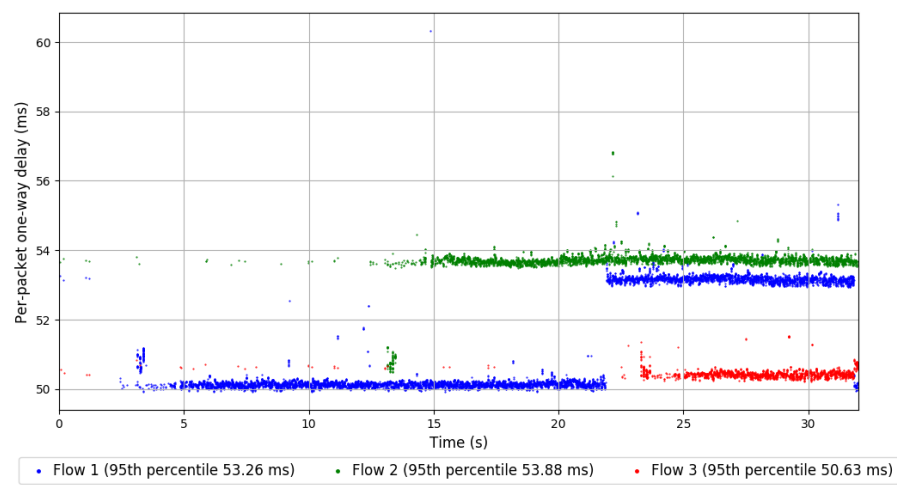
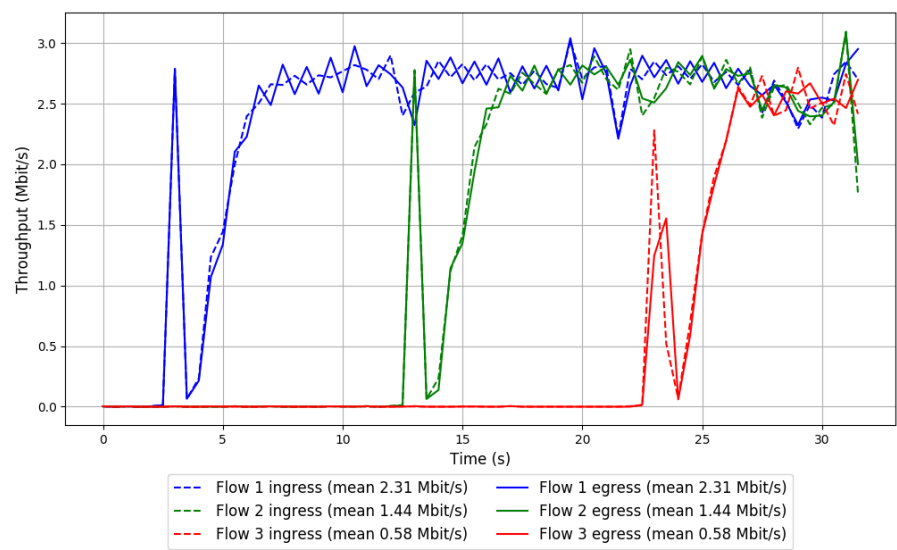
-- Flow 3:

Average throughput: 0.58 Mbit/s

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

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-12-06 06:58:36

End at: 2017-12-06 06:59:06

Below is generated by plot.py at 2017-12-06 09:14:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 53.712 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.24 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 53.752 ms

Loss rate: 0.00%

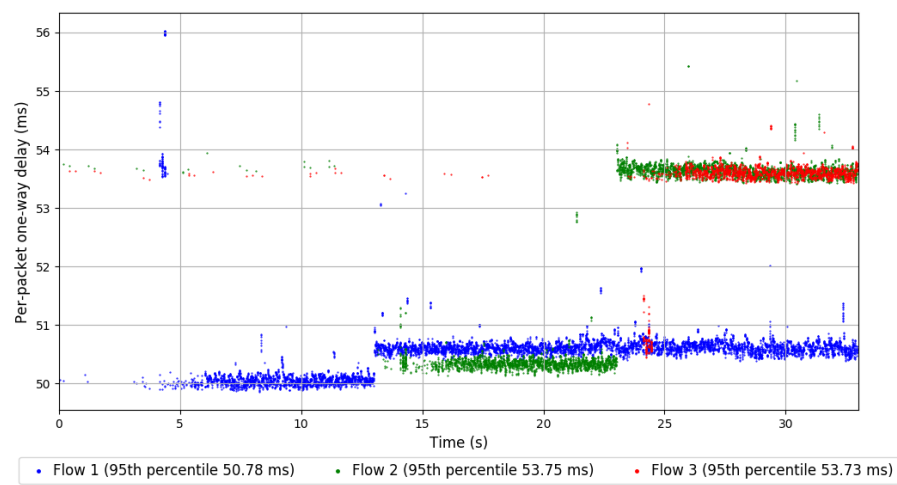
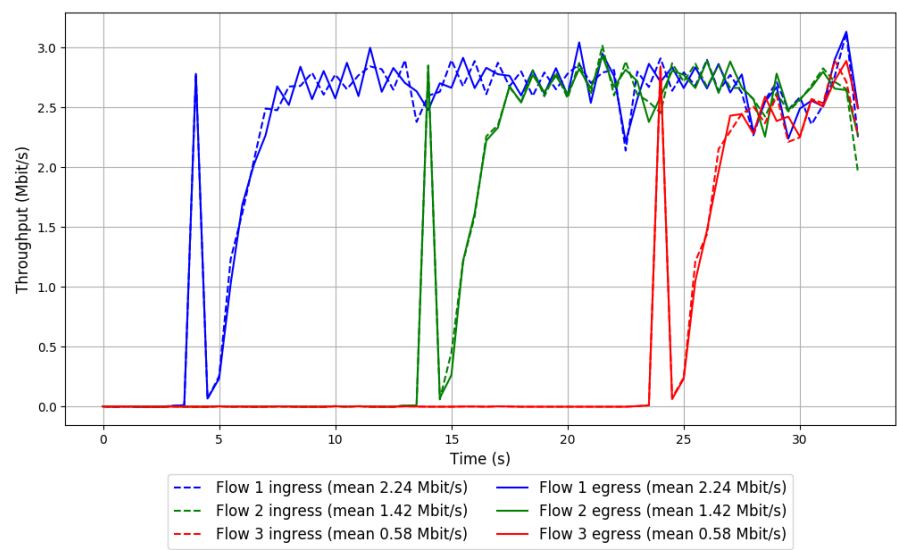
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 53.731 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-12-06 07:11:06

End at: 2017-12-06 07:11:36

Below is generated by plot.py at 2017-12-06 09:14:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.26 Mbit/s

95th percentile per-packet one-way delay: 53.699 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 53.669 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 50.685 ms

Loss rate: 0.00%

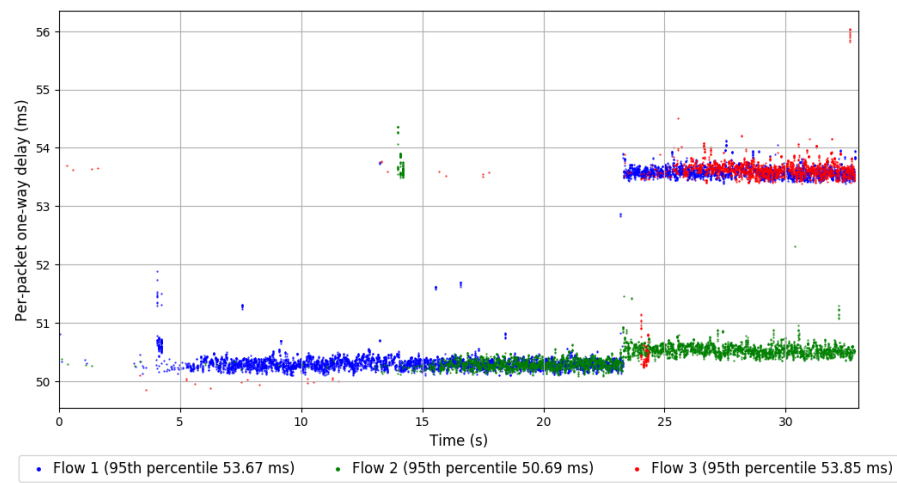
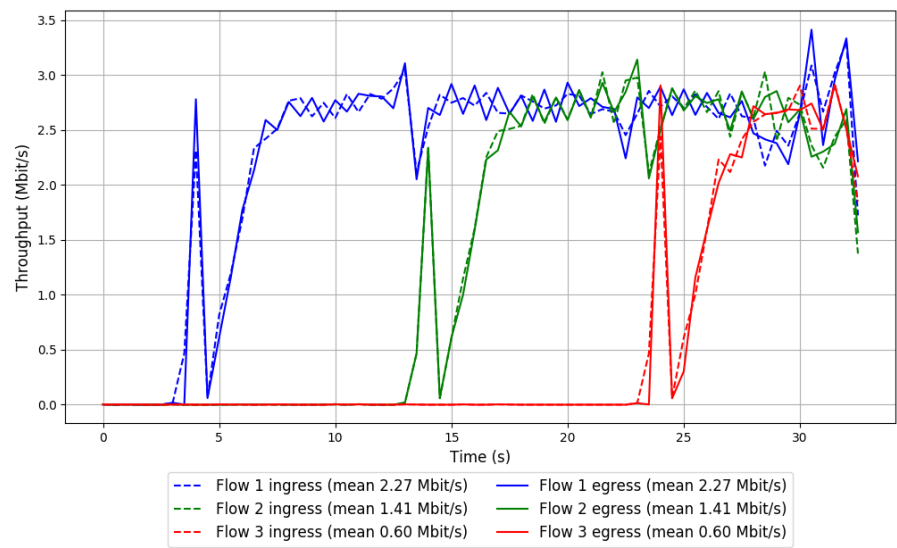
-- Flow 3:

Average throughput: 0.60 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-12-06 07:23:08

End at: 2017-12-06 07:23:38

Below is generated by plot.py at 2017-12-06 09:14:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 53.747 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 53.773 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 53.705 ms

Loss rate: 0.00%

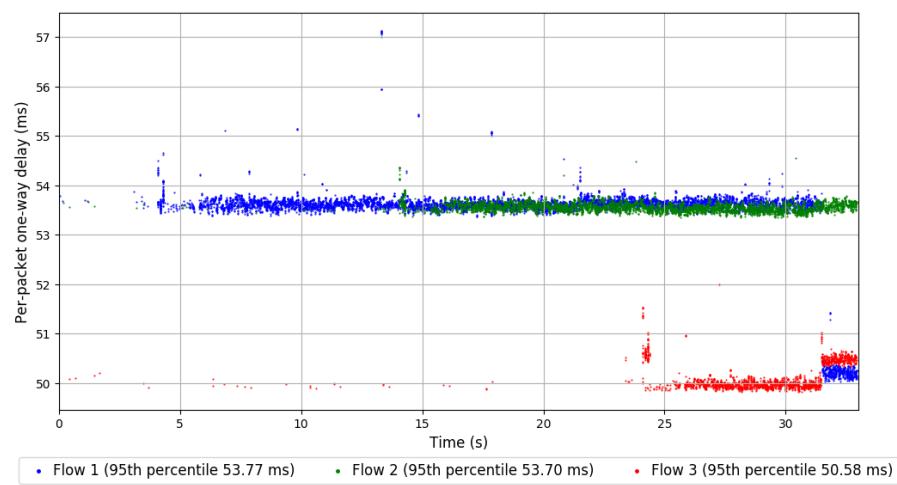
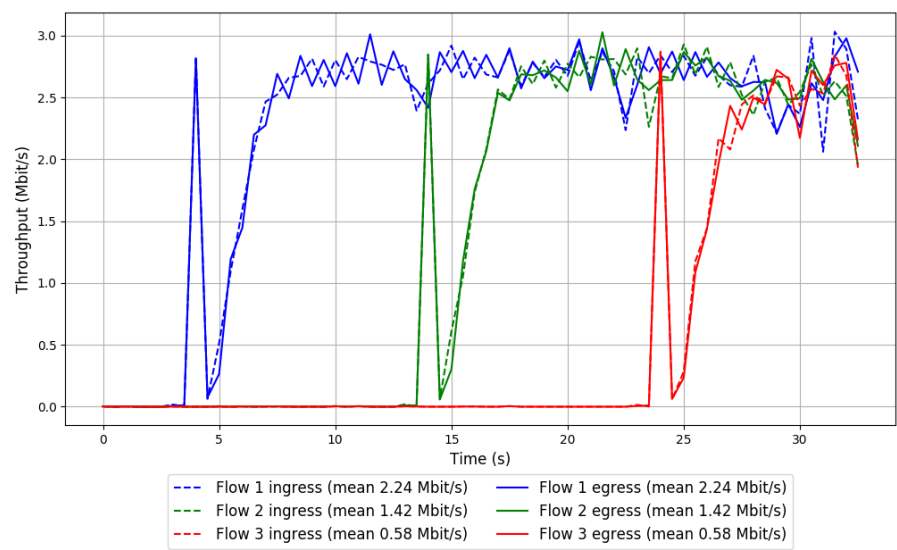
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 50.583 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

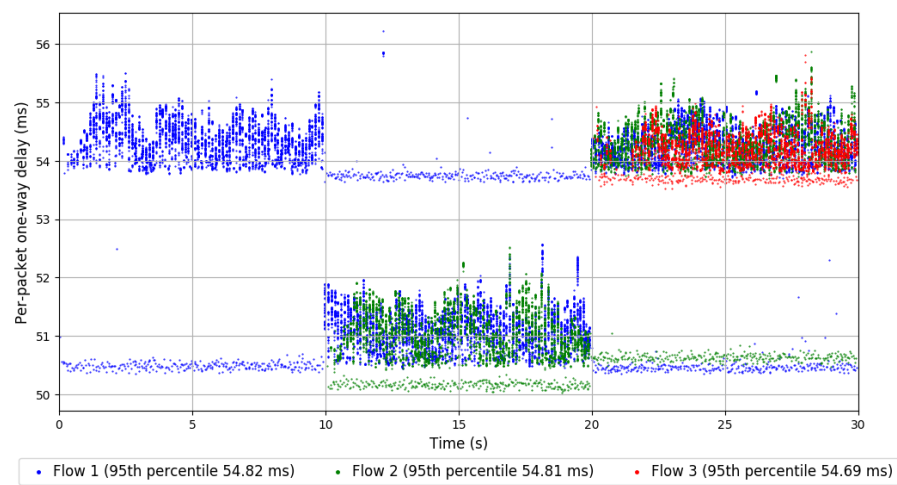
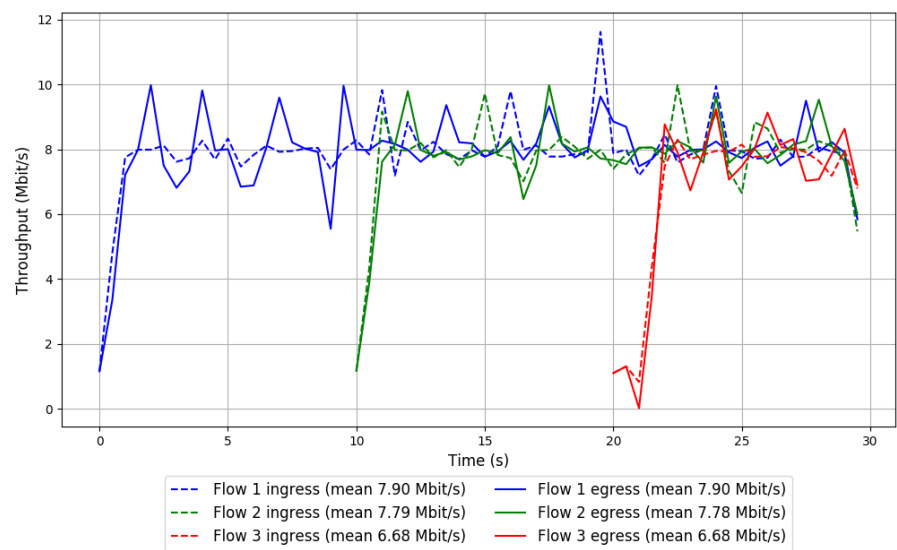


```
Run 1: Statistics of Sprout

Start at: 2017-12-06 05:40:46
End at: 2017-12-06 05:41:16

# Below is generated by plot.py at 2017-12-06 09:14:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.27 Mbit/s
95th percentile per-packet one-way delay: 54.800 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 7.90 Mbit/s
95th percentile per-packet one-way delay: 54.819 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 7.78 Mbit/s
95th percentile per-packet one-way delay: 54.806 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 6.68 Mbit/s
95th percentile per-packet one-way delay: 54.693 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-12-06 05:53:16

End at: 2017-12-06 05:53:46

Below is generated by plot.py at 2017-12-06 09:14:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.11 Mbit/s

95th percentile per-packet one-way delay: 54.865 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.62 Mbit/s

95th percentile per-packet one-way delay: 54.834 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 7.61 Mbit/s

95th percentile per-packet one-way delay: 54.895 ms

Loss rate: 0.00%

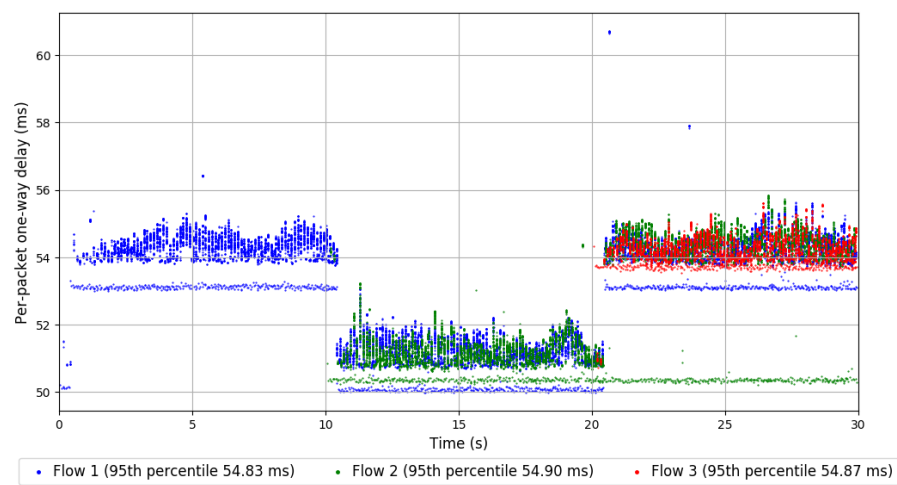
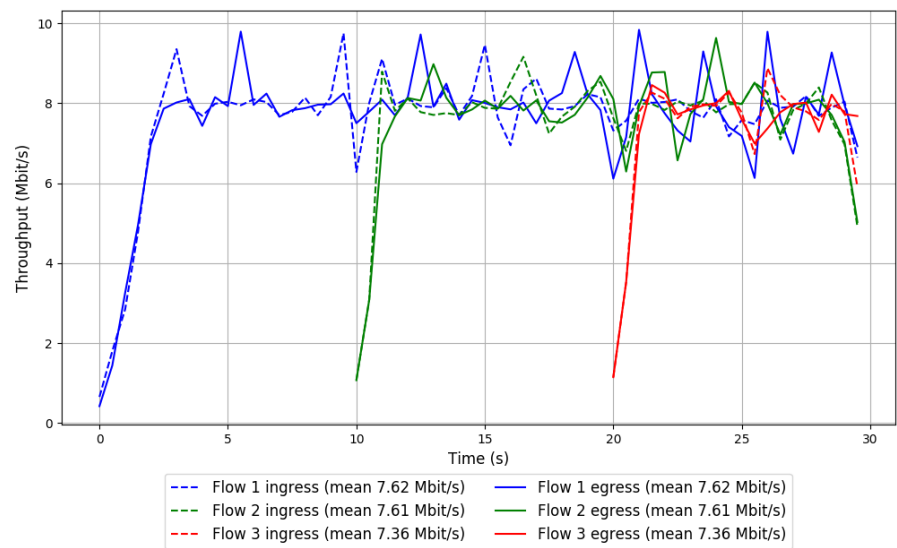
-- Flow 3:

Average throughput: 7.36 Mbit/s

95th percentile per-packet one-way delay: 54.868 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-12-06 06:05:32

End at: 2017-12-06 06:06:02

Below is generated by plot.py at 2017-12-06 09:14:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.28 Mbit/s

95th percentile per-packet one-way delay: 54.911 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 7.71 Mbit/s

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

Loss rate: 0.11%

-- Flow 2:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 54.980 ms

Loss rate: 0.44%

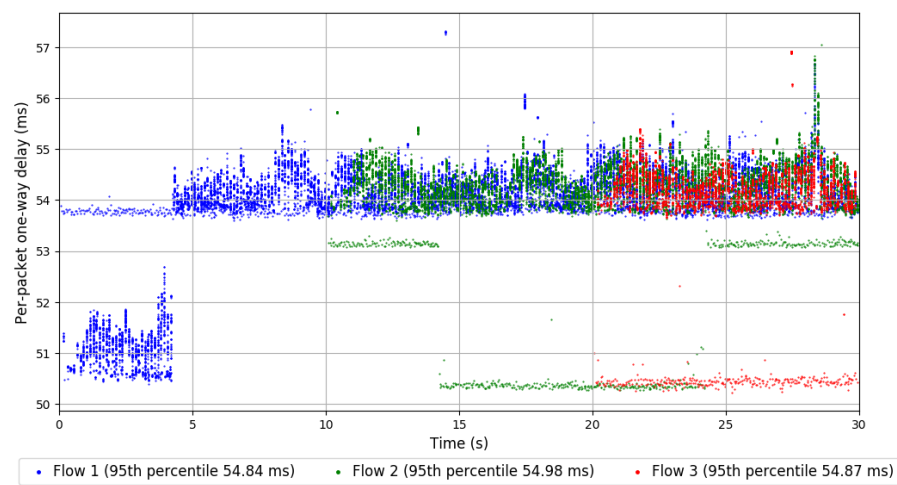
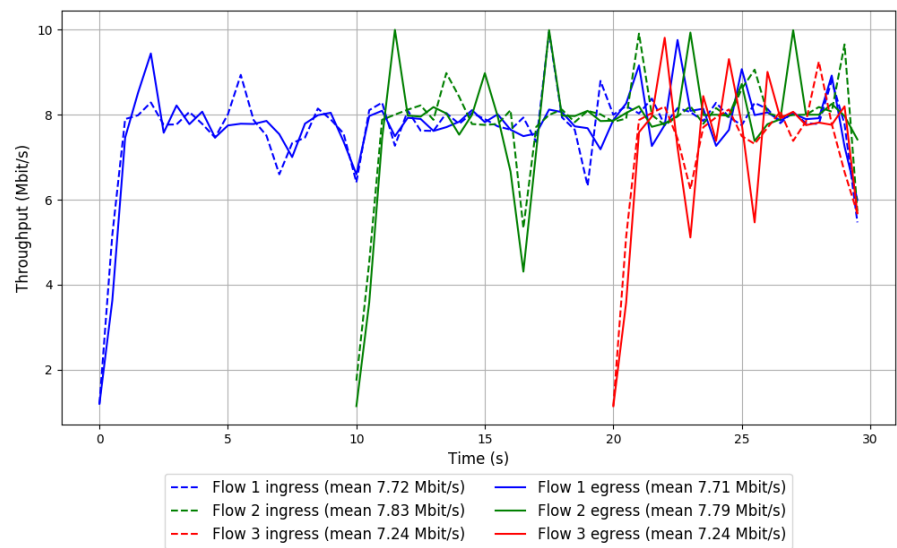
-- Flow 3:

Average throughput: 7.24 Mbit/s

95th percentile per-packet one-way delay: 54.872 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-12-06 06:17:45

End at: 2017-12-06 06:18:15

Below is generated by plot.py at 2017-12-06 09:14:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.26 Mbit/s

95th percentile per-packet one-way delay: 54.773 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 54.757 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.72 Mbit/s

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

Loss rate: 0.00%

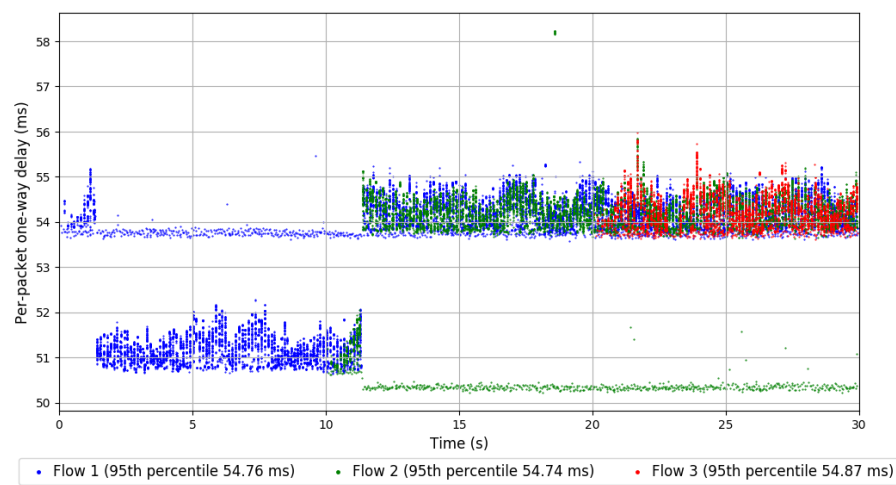
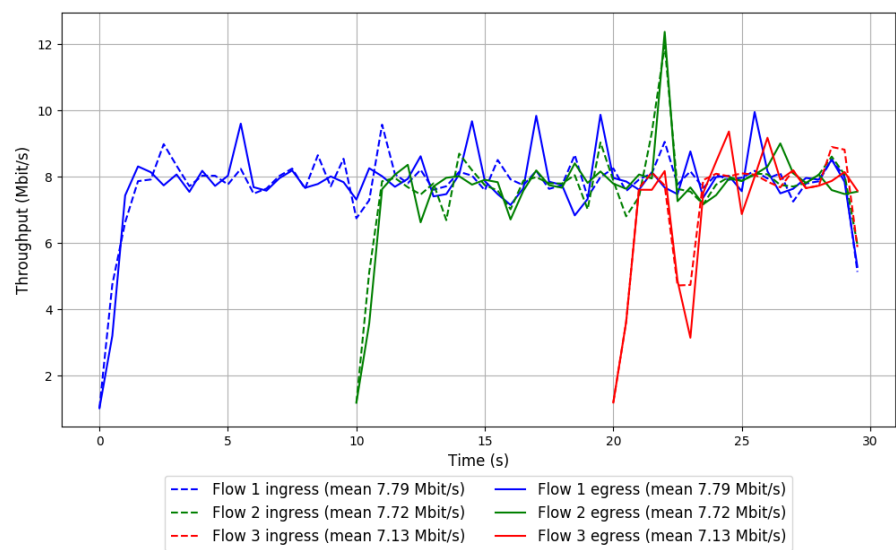
-- Flow 3:

Average throughput: 7.13 Mbit/s

95th percentile per-packet one-way delay: 54.867 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-12-06 06:29:46

End at: 2017-12-06 06:30:16

Below is generated by plot.py at 2017-12-06 09:14:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.29 Mbit/s

95th percentile per-packet one-way delay: 54.886 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 54.881 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 54.908 ms

Loss rate: 0.00%

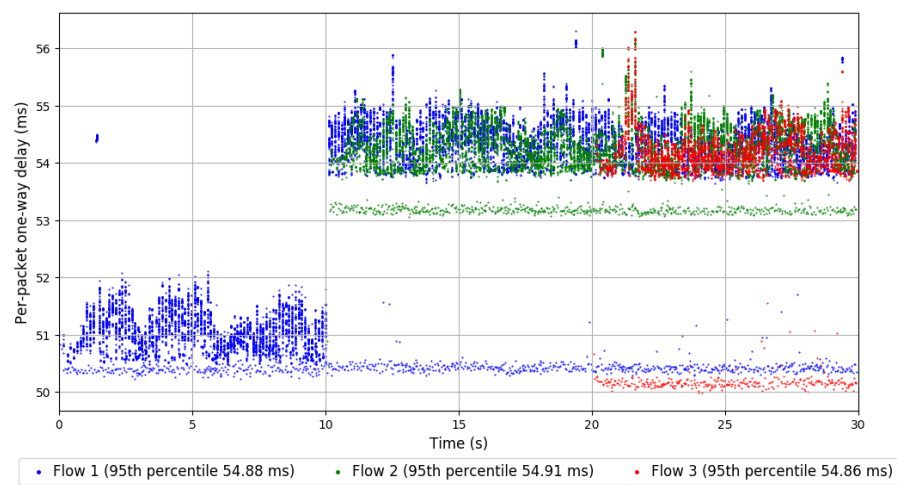
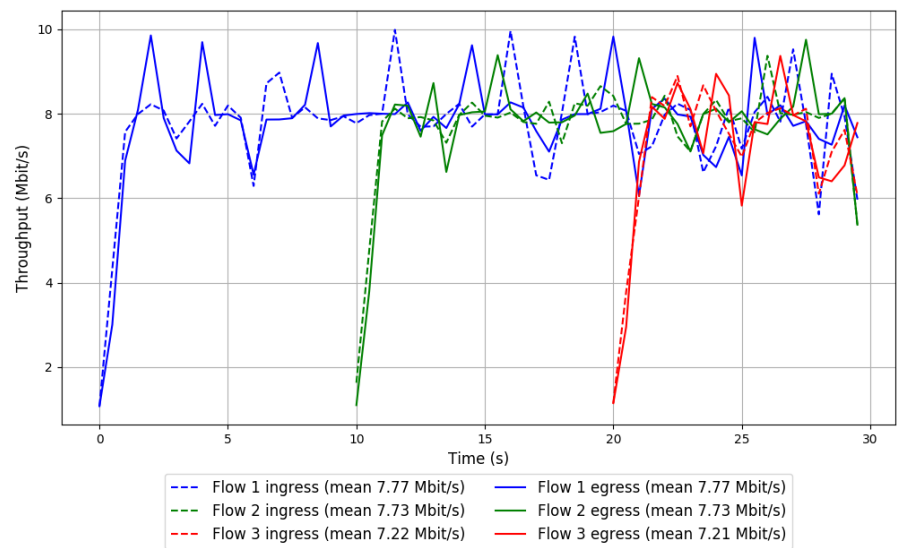
-- Flow 3:

Average throughput: 7.21 Mbit/s

95th percentile per-packet one-way delay: 54.856 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-12-06 06:42:05

End at: 2017-12-06 06:42:35

Below is generated by plot.py at 2017-12-06 09:14:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.32 Mbit/s

95th percentile per-packet one-way delay: 54.651 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 54.465 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 7.75 Mbit/s

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

Loss rate: 0.02%

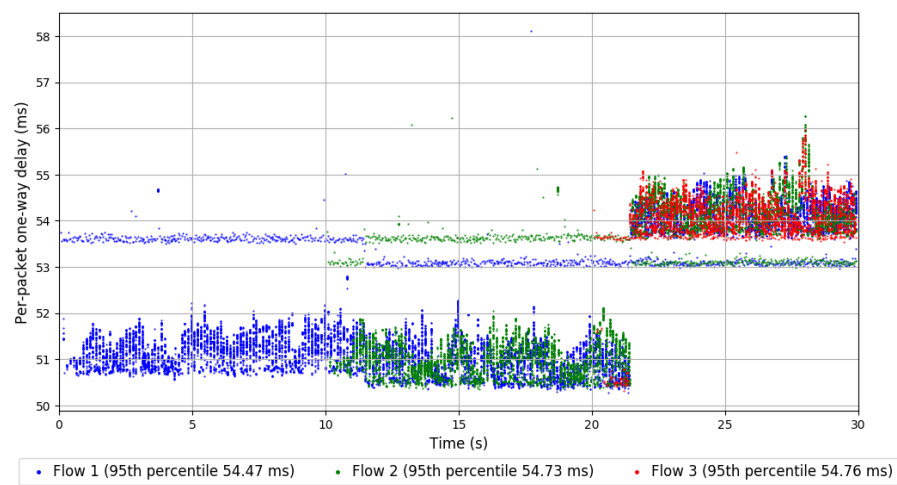
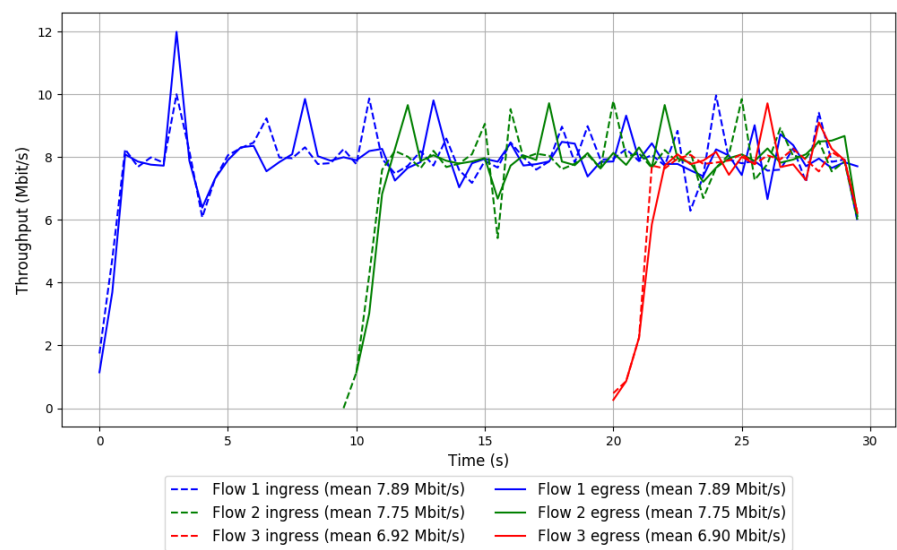
-- Flow 3:

Average throughput: 6.90 Mbit/s

95th percentile per-packet one-way delay: 54.759 ms

Loss rate: 0.23%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-12-06 06:54:01

End at: 2017-12-06 06:54:31

Below is generated by plot.py at 2017-12-06 09:14:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.43 Mbit/s

95th percentile per-packet one-way delay: 54.153 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 54.478 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 51.995 ms

Loss rate: 0.00%

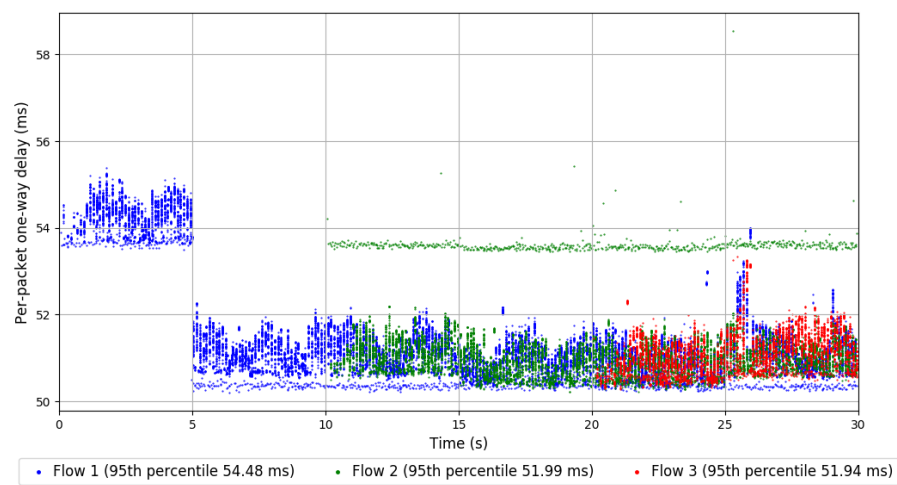
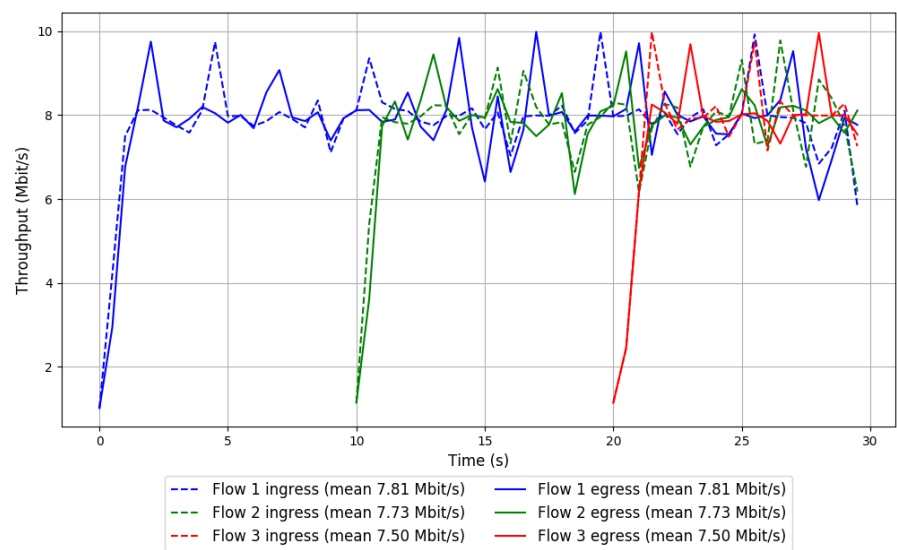
-- Flow 3:

Average throughput: 7.50 Mbit/s

95th percentile per-packet one-way delay: 51.938 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-12-06 07:06:29

End at: 2017-12-06 07:06:59

Below is generated by plot.py at 2017-12-06 09:14:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.48 Mbit/s

95th percentile per-packet one-way delay: 54.098 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 53.946 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 7.76 Mbit/s

95th percentile per-packet one-way delay: 54.062 ms

Loss rate: 0.00%

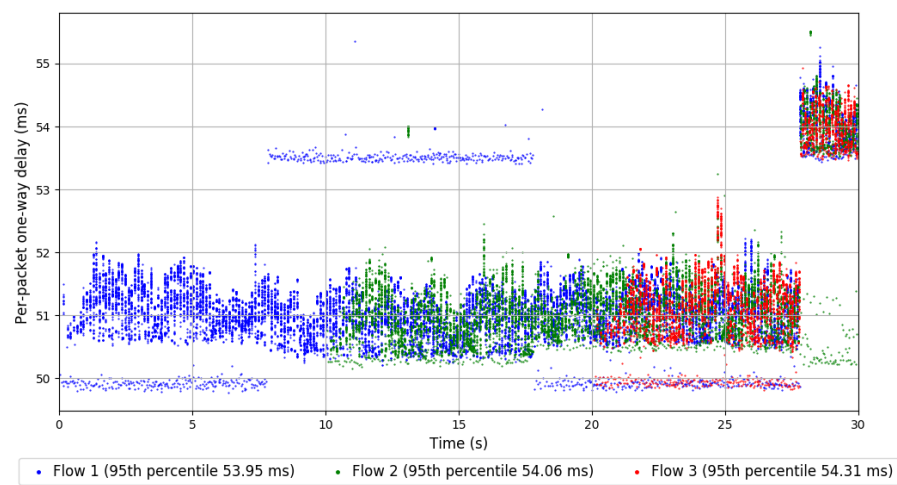
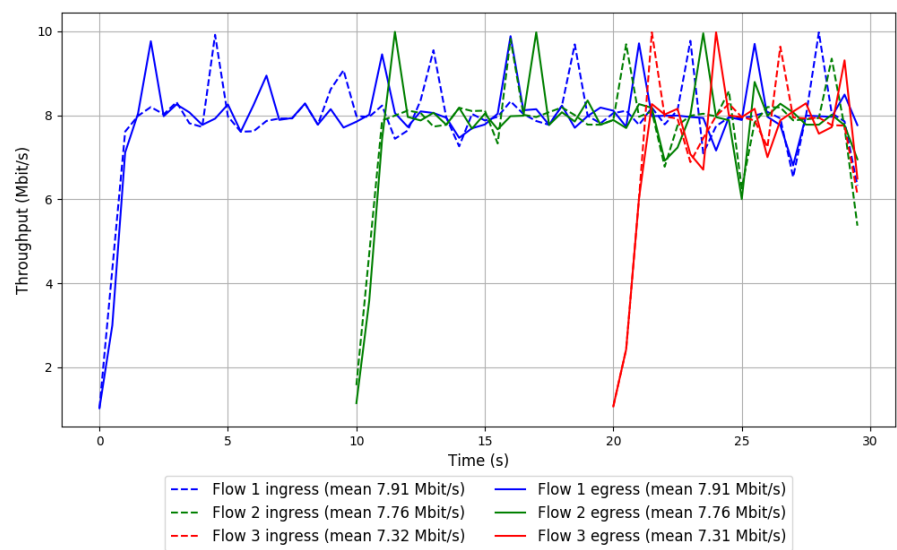
-- Flow 3:

Average throughput: 7.31 Mbit/s

95th percentile per-packet one-way delay: 54.307 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-12-06 07:18:36

End at: 2017-12-06 07:19:06

Below is generated by plot.py at 2017-12-06 09:14:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.43 Mbit/s

95th percentile per-packet one-way delay: 54.398 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 54.346 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 54.521 ms

Loss rate: 0.00%

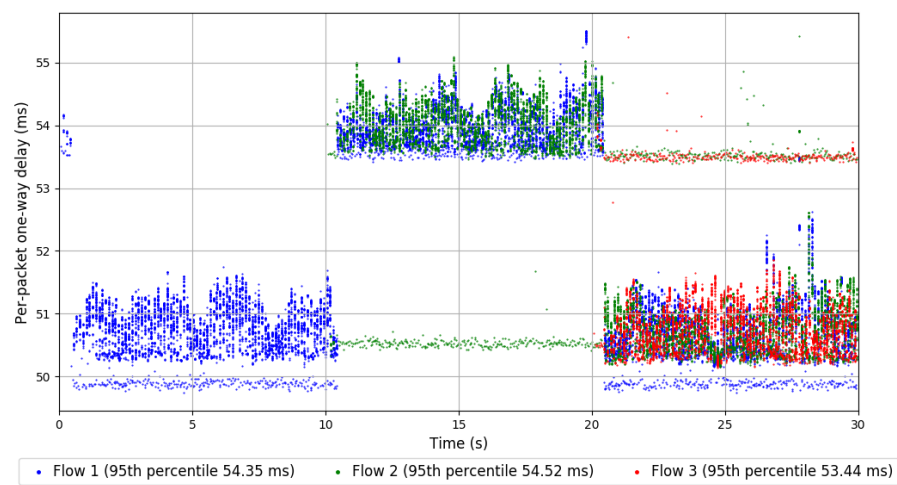
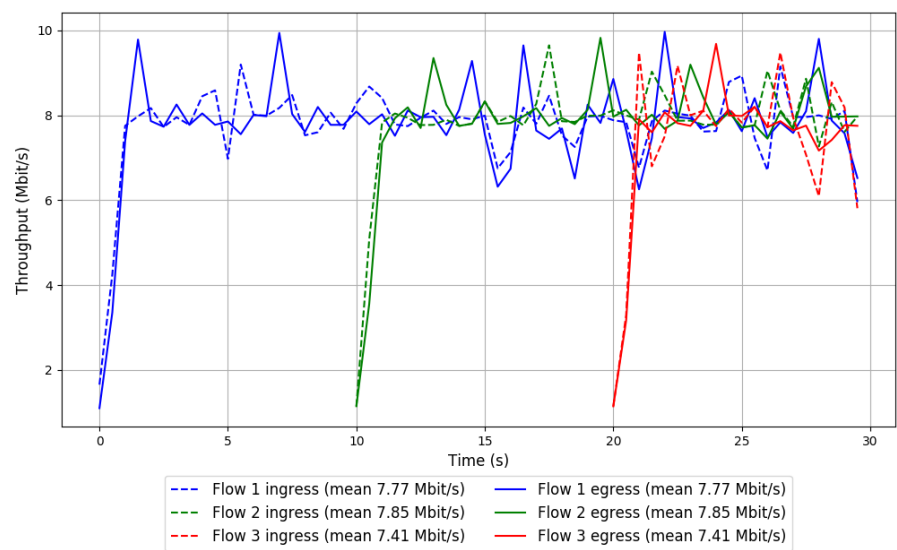
-- Flow 3:

Average throughput: 7.41 Mbit/s

95th percentile per-packet one-way delay: 53.440 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-12-06 07:30:27

End at: 2017-12-06 07:30:57

Below is generated by plot.py at 2017-12-06 09:14:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.16 Mbit/s

95th percentile per-packet one-way delay: 54.126 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 54.142 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 54.191 ms

Loss rate: 0.04%

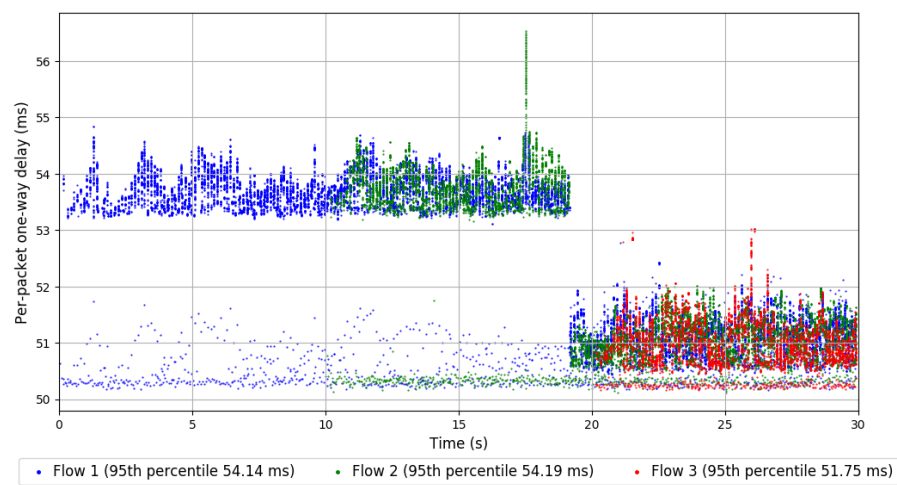
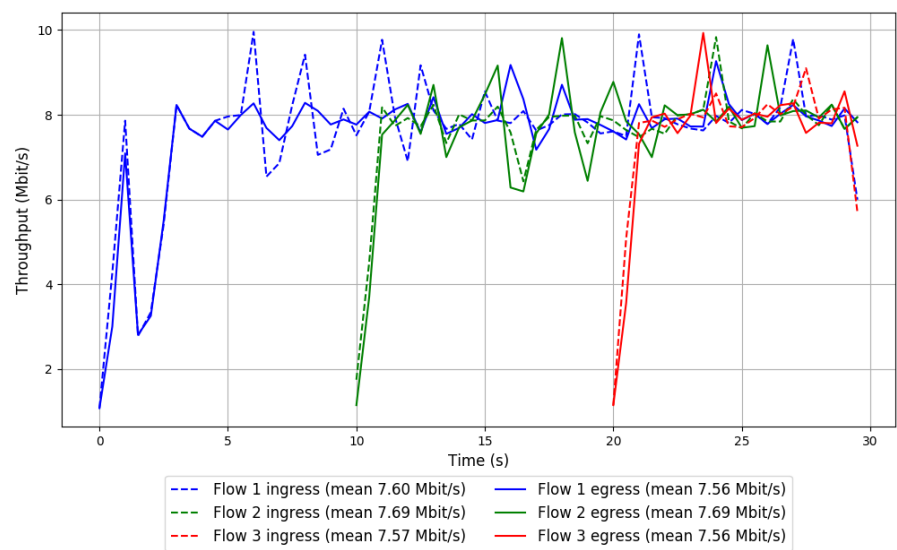
-- Flow 3:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 51.752 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

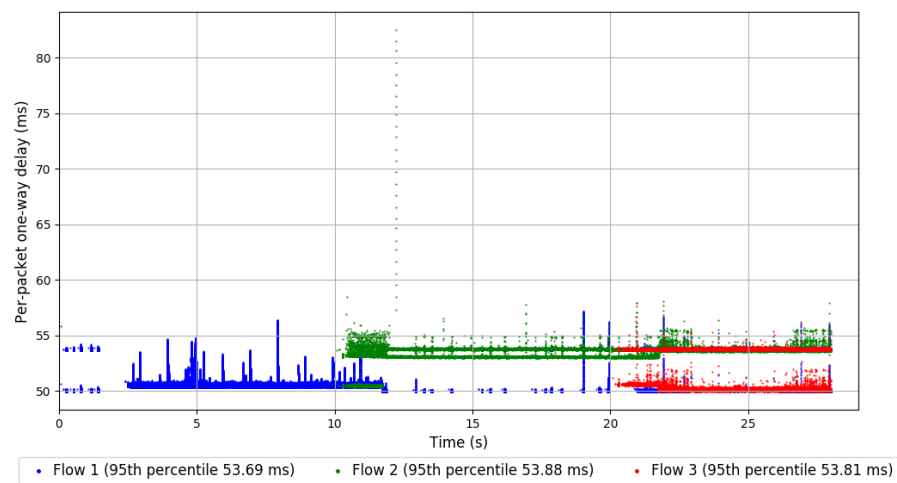
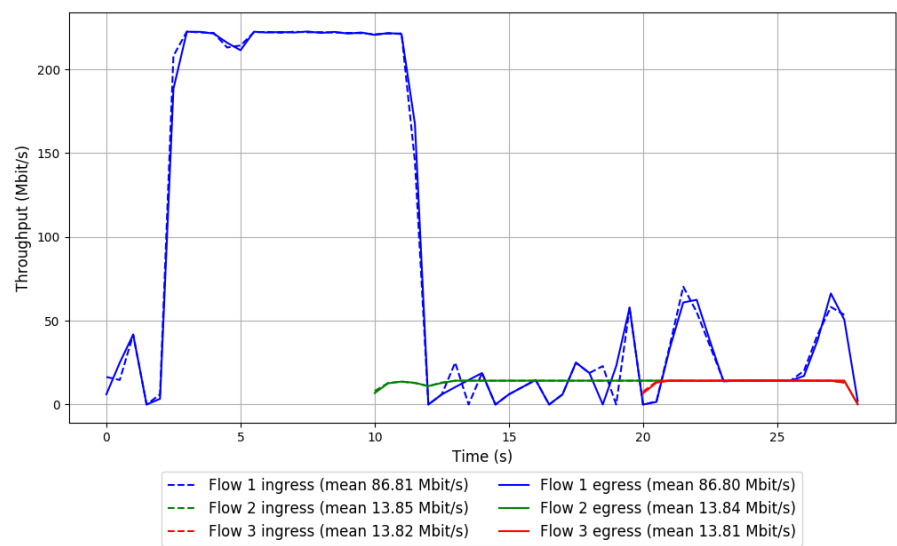


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-06 05:39:13
End at: 2017-12-06 05:39:43

# Below is generated by plot.py at 2017-12-06 09:14:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 99.61 Mbit/s
95th percentile per-packet one-way delay: 53.737 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 86.80 Mbit/s
95th percentile per-packet one-way delay: 53.694 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 13.84 Mbit/s
95th percentile per-packet one-way delay: 53.884 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 13.81 Mbit/s
95th percentile per-packet one-way delay: 53.815 ms
Loss rate: 0.04%
```


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

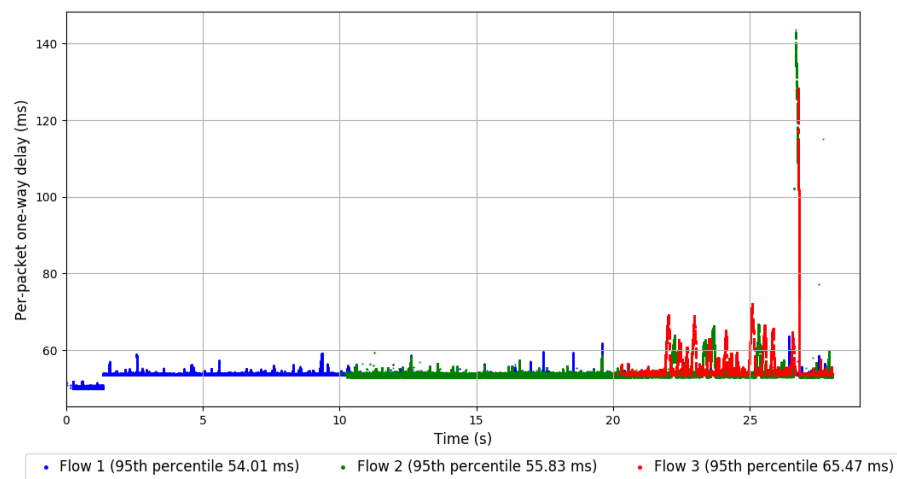
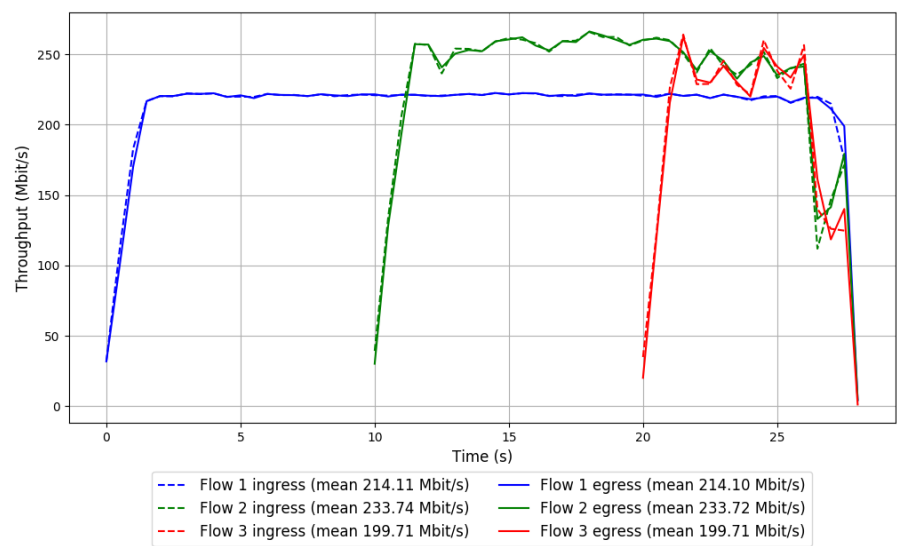


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-12-06 05:51:13
End at: 2017-12-06 05:51:43

# Below is generated by plot.py at 2017-12-06 09:22:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 420.82 Mbit/s
95th percentile per-packet one-way delay: 56.749 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 214.10 Mbit/s
95th percentile per-packet one-way delay: 54.012 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 233.72 Mbit/s
95th percentile per-packet one-way delay: 55.826 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 199.71 Mbit/s
95th percentile per-packet one-way delay: 65.468 ms
Loss rate: 0.02%
```

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

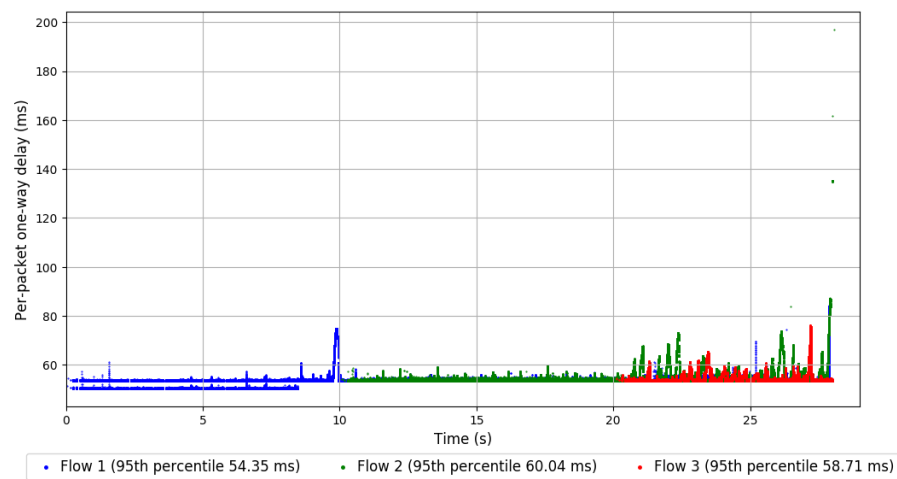
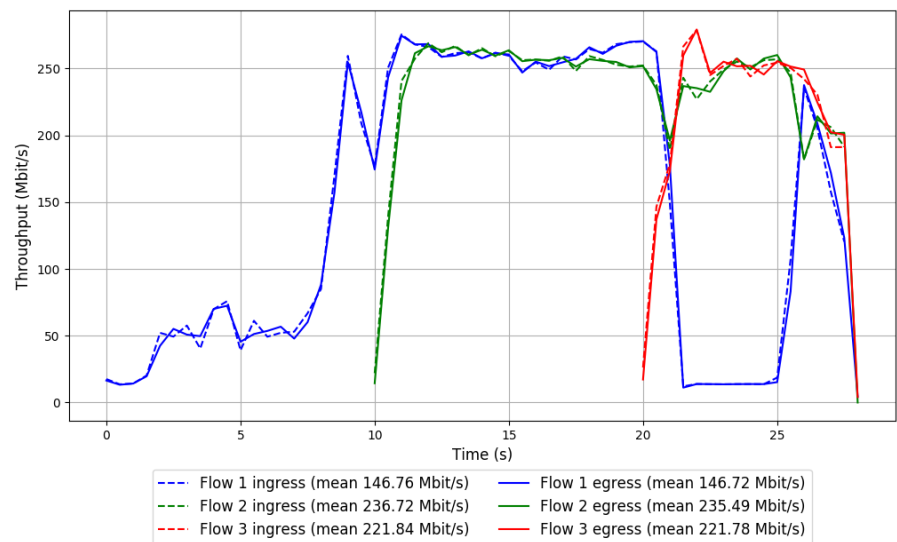


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-12-06 06:03:36
End at: 2017-12-06 06:04:06

# Below is generated by plot.py at 2017-12-06 09:22:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 360.32 Mbit/s
95th percentile per-packet one-way delay: 57.698 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 146.72 Mbit/s
95th percentile per-packet one-way delay: 54.354 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 235.49 Mbit/s
95th percentile per-packet one-way delay: 60.037 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 221.78 Mbit/s
95th percentile per-packet one-way delay: 58.710 ms
Loss rate: 0.05%
```

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

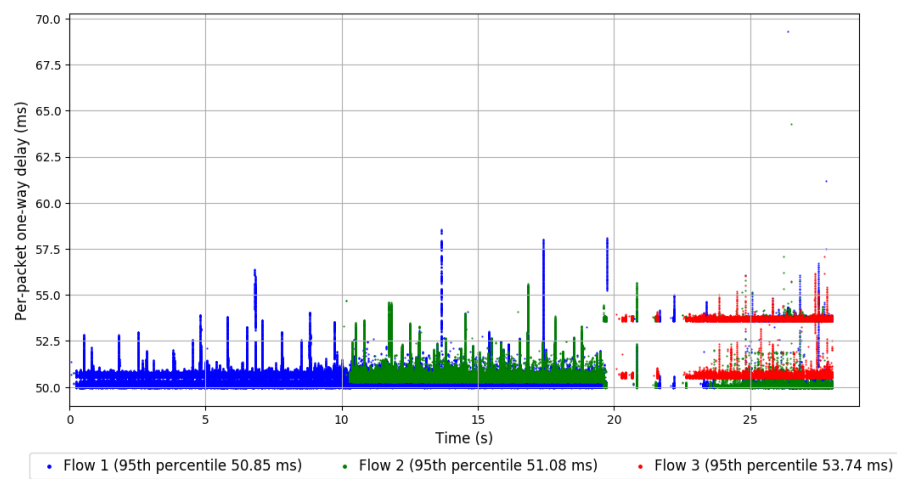
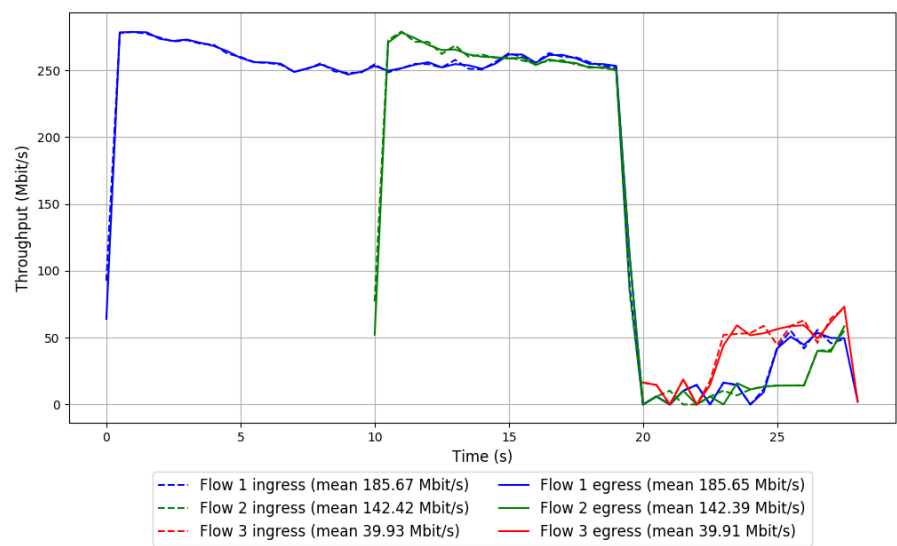


```
Run 4: Statistics of TaoVA-100x

Start at: 2017-12-06 06:15:55
End at: 2017-12-06 06:16:25

# Below is generated by plot.py at 2017-12-06 09:22:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 288.34 Mbit/s
95th percentile per-packet one-way delay: 51.602 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 185.65 Mbit/s
95th percentile per-packet one-way delay: 50.854 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 142.39 Mbit/s
95th percentile per-packet one-way delay: 51.083 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 39.91 Mbit/s
95th percentile per-packet one-way delay: 53.744 ms
Loss rate: 0.00%
```

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

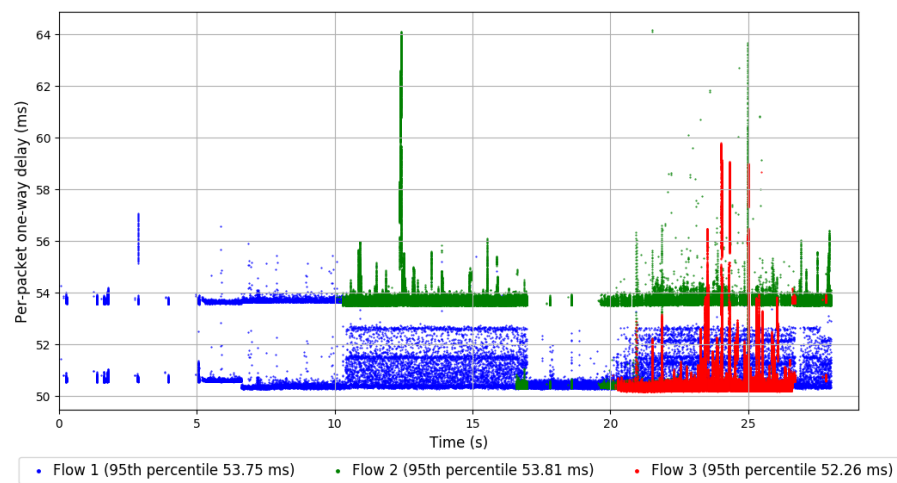
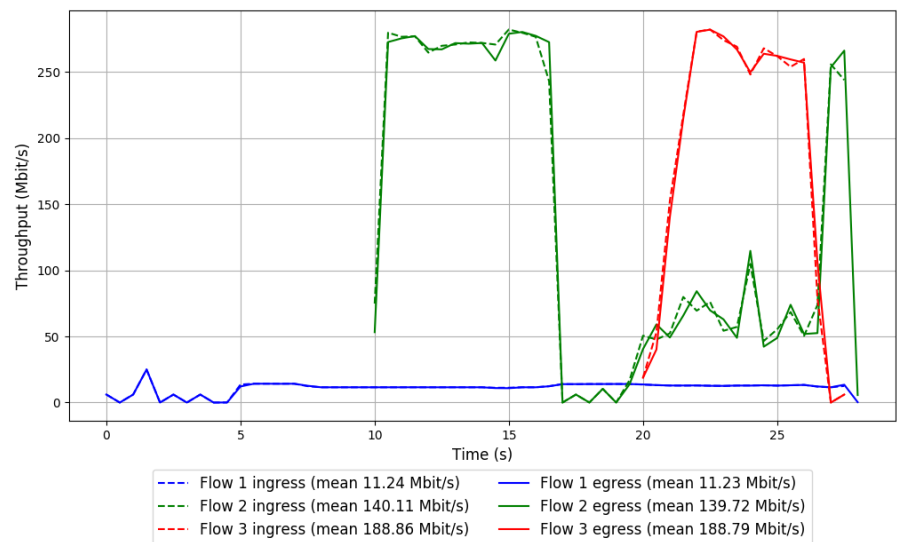


```
Run 5: Statistics of TaoVA-100x

Start at: 2017-12-06 06:28:08
End at: 2017-12-06 06:28:38

# Below is generated by plot.py at 2017-12-06 09:22:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 153.21 Mbit/s
95th percentile per-packet one-way delay: 53.782 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 11.23 Mbit/s
95th percentile per-packet one-way delay: 53.753 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 139.72 Mbit/s
95th percentile per-packet one-way delay: 53.809 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 188.79 Mbit/s
95th percentile per-packet one-way delay: 52.256 ms
Loss rate: 0.00%
```


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



Run 6: Statistics of TaoVA-100x

Start at: 2017-12-06 06:40:09

End at: 2017-12-06 06:40:39

Below is generated by plot.py at 2017-12-06 09:22:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 344.01 Mbit/s

95th percentile per-packet one-way delay: 54.262 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 250.68 Mbit/s

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

Loss rate: 0.02%

-- Flow 2:

Average throughput: 117.04 Mbit/s

95th percentile per-packet one-way delay: 54.190 ms

Loss rate: 0.07%

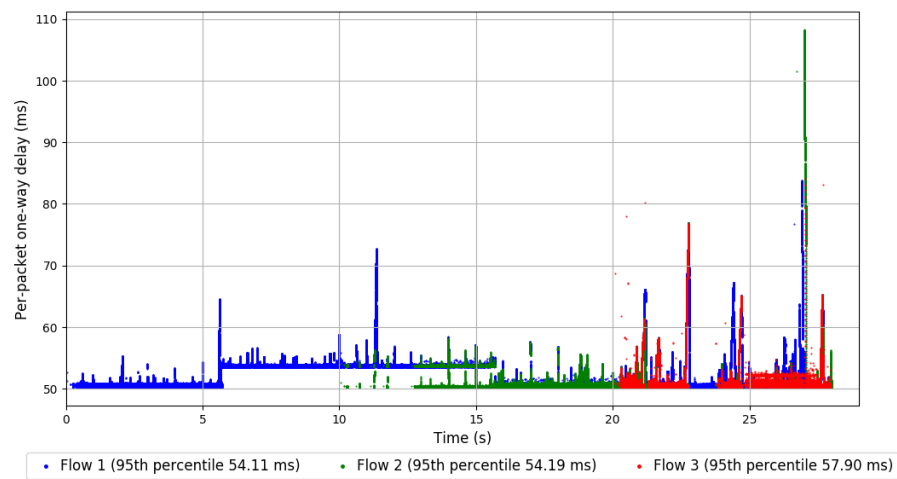
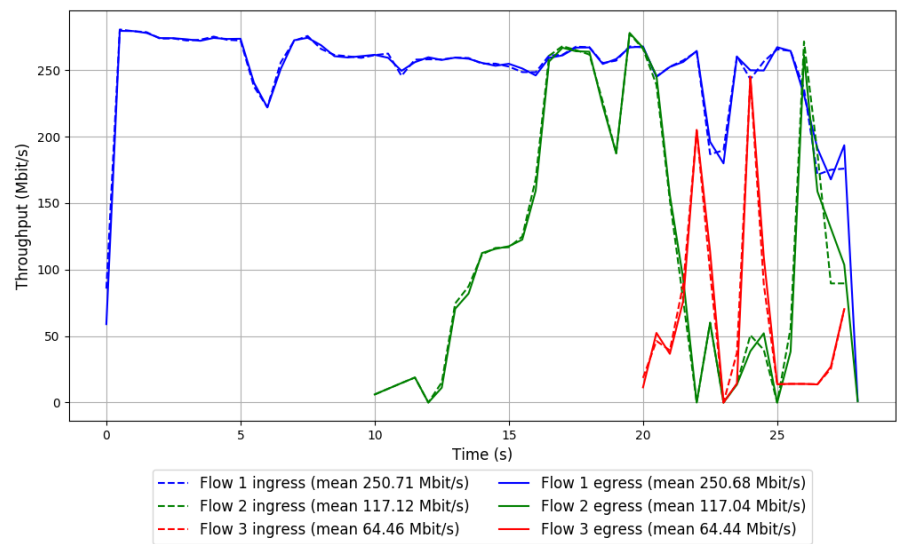
-- Flow 3:

Average throughput: 64.44 Mbit/s

95th percentile per-packet one-way delay: 57.901 ms

Loss rate: 0.00%

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

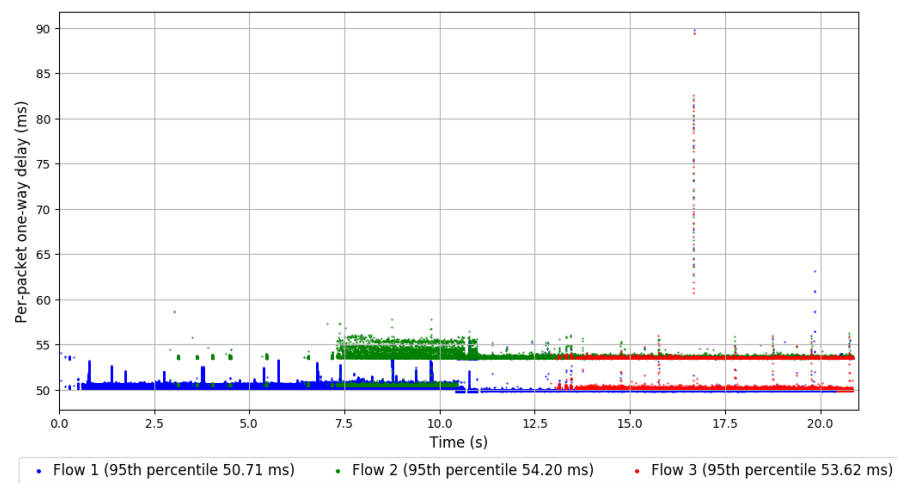
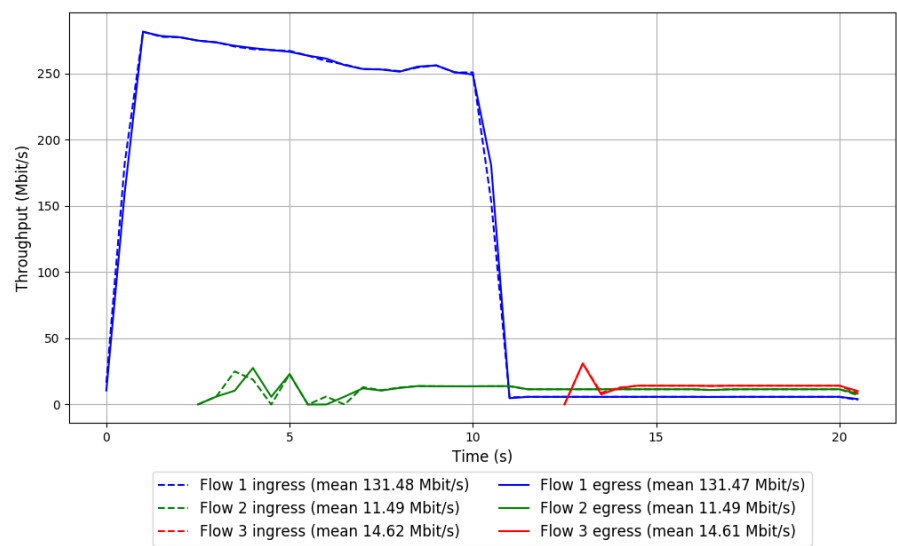


Run 7: Statistics of TaoVA-100x

Start at: 2017-12-06 06:52:27

End at: 2017-12-06 06:52:57

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-12-06 07:04:25

End at: 2017-12-06 07:04:55

Below is generated by plot.py at 2017-12-06 09:26:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 413.98 Mbit/s

95th percentile per-packet one-way delay: 55.955 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 217.69 Mbit/s

95th percentile per-packet one-way delay: 51.438 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 226.10 Mbit/s

95th percentile per-packet one-way delay: 58.063 ms

Loss rate: 0.00%

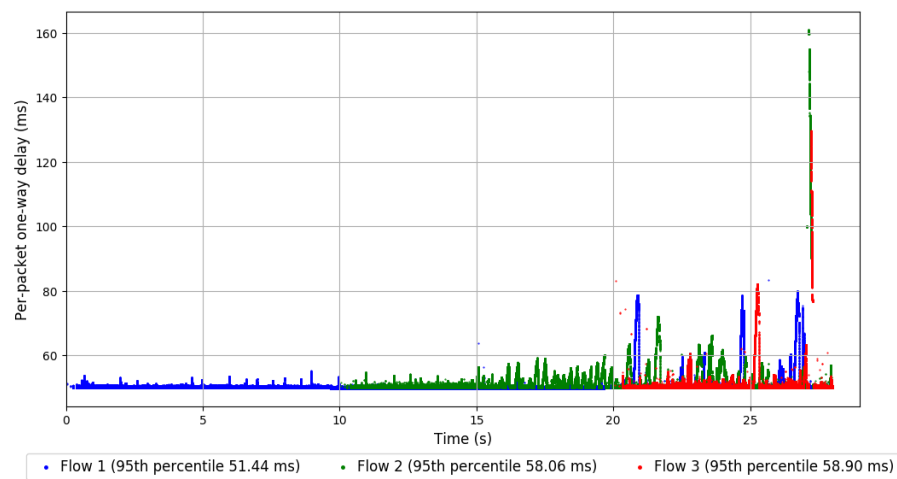
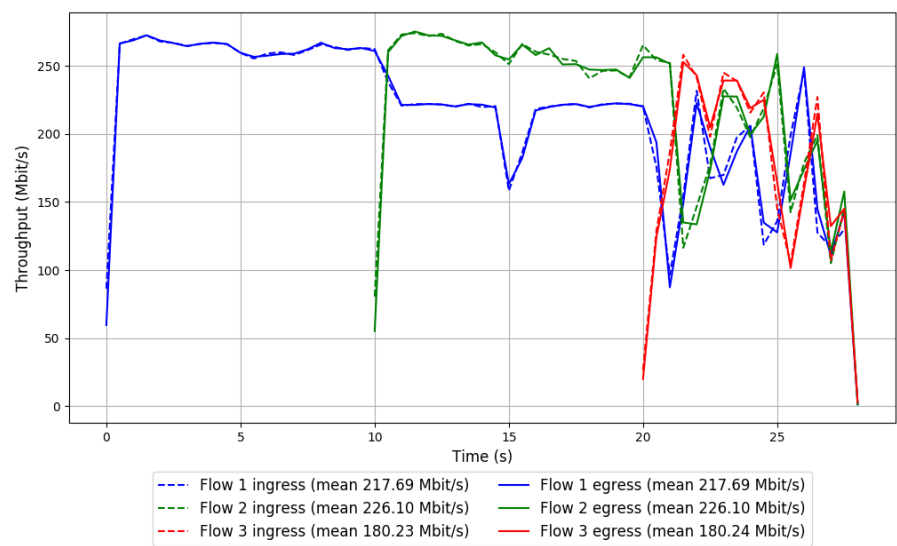
-- Flow 3:

Average throughput: 180.24 Mbit/s

95th percentile per-packet one-way delay: 58.904 ms

Loss rate: 0.00%

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

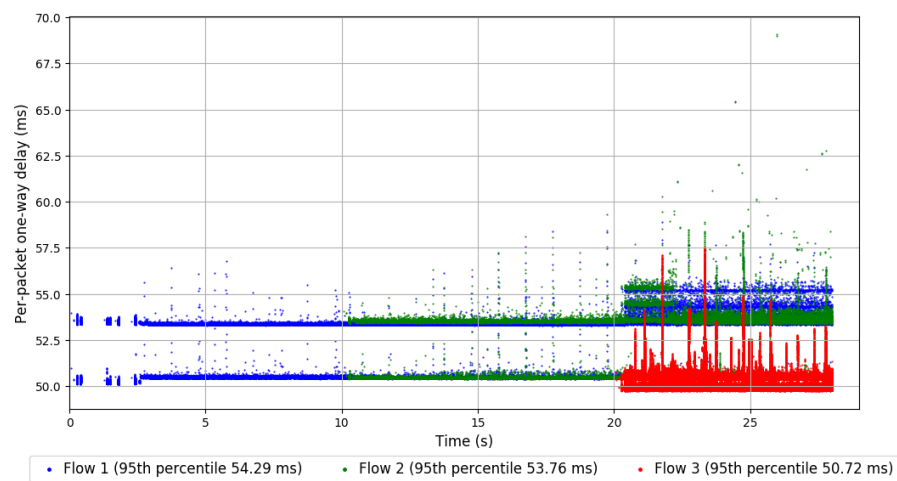
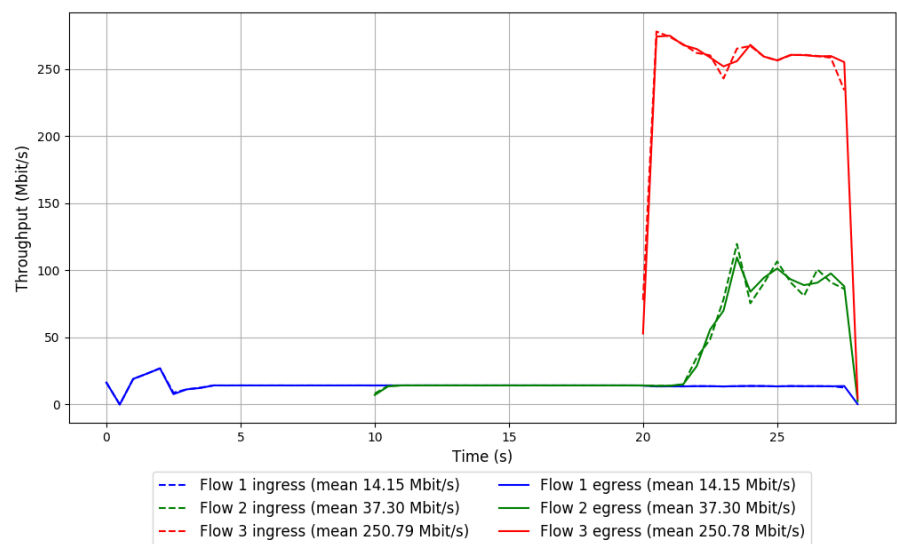


```
Run 9: Statistics of TaoVA-100x

Start at: 2017-12-06 07:17:02
End at: 2017-12-06 07:17:32

# Below is generated by plot.py at 2017-12-06 09:26:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 109.35 Mbit/s
95th percentile per-packet one-way delay: 53.623 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 14.15 Mbit/s
95th percentile per-packet one-way delay: 54.290 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.30 Mbit/s
95th percentile per-packet one-way delay: 53.762 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 250.78 Mbit/s
95th percentile per-packet one-way delay: 50.721 ms
Loss rate: 0.00%
```


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

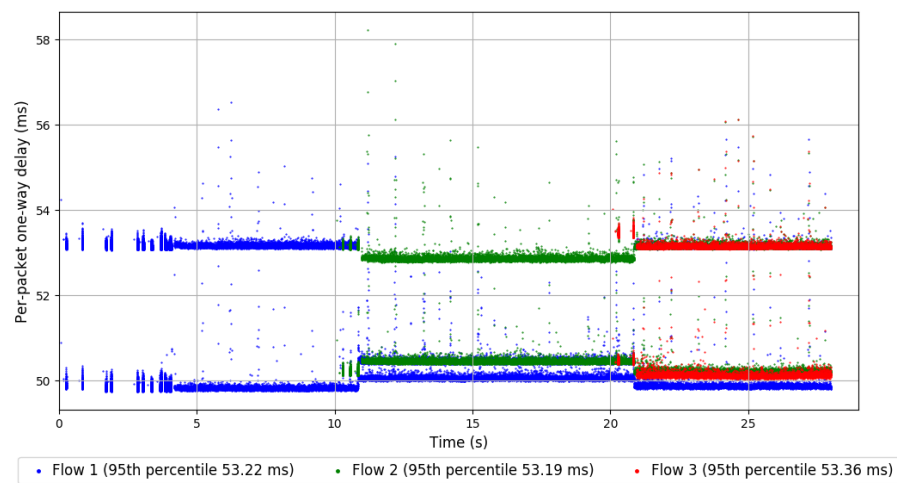
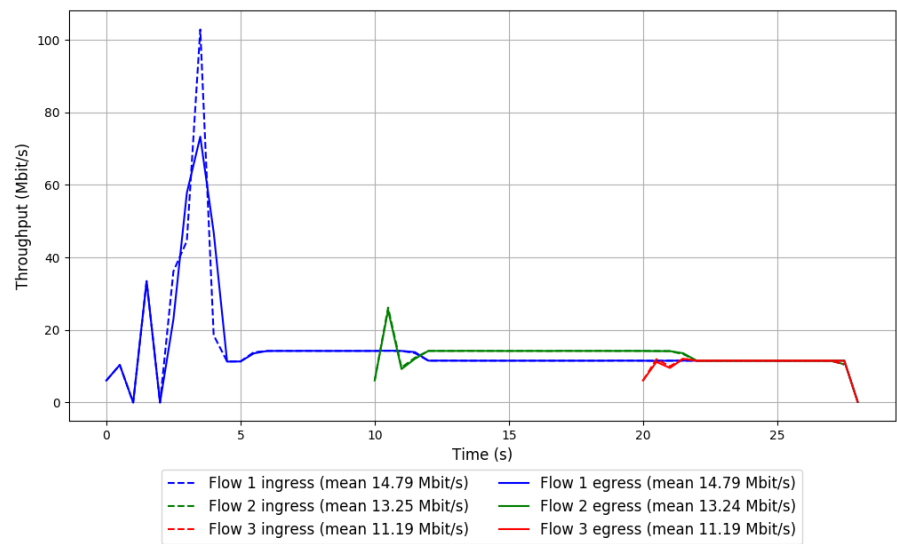


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-12-06 07:29:04
End at: 2017-12-06 07:29:34

# Below is generated by plot.py at 2017-12-06 09:26:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 26.46 Mbit/s
95th percentile per-packet one-way delay: 53.212 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 14.79 Mbit/s
95th percentile per-packet one-way delay: 53.215 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.24 Mbit/s
95th percentile per-packet one-way delay: 53.189 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.19 Mbit/s
95th percentile per-packet one-way delay: 53.363 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-12-06 05:35:58

End at: 2017-12-06 05:36:28

Below is generated by plot.py at 2017-12-06 09:26:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.83 Mbit/s

95th percentile per-packet one-way delay: 57.238 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 44.12 Mbit/s

95th percentile per-packet one-way delay: 60.161 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 8.34 Mbit/s

95th percentile per-packet one-way delay: 54.552 ms

Loss rate: 0.01%

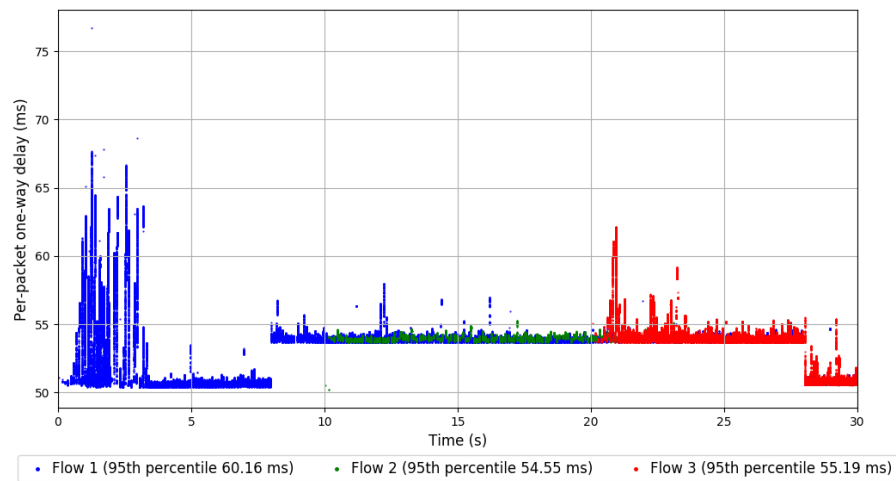
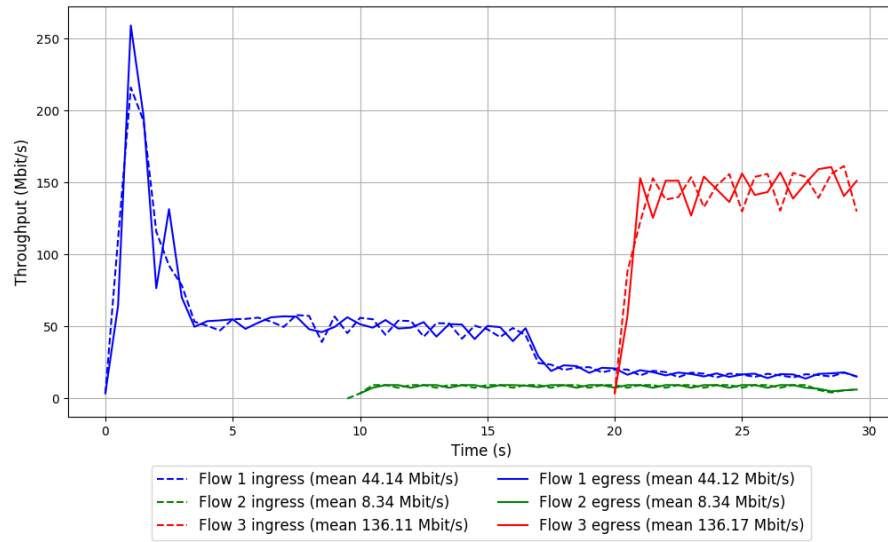
-- Flow 3:

Average throughput: 136.17 Mbit/s

95th percentile per-packet one-way delay: 55.187 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-12-06 05:47:55

End at: 2017-12-06 05:48:25

Below is generated by plot.py at 2017-12-06 09:26:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 152.96 Mbit/s

95th percentile per-packet one-way delay: 55.741 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.78 Mbit/s

95th percentile per-packet one-way delay: 55.127 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 98.96 Mbit/s

95th percentile per-packet one-way delay: 55.149 ms

Loss rate: 0.00%

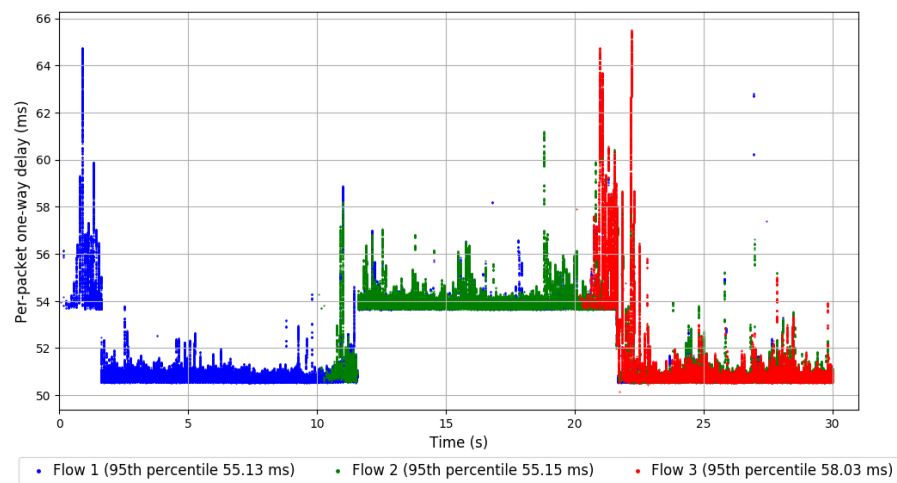
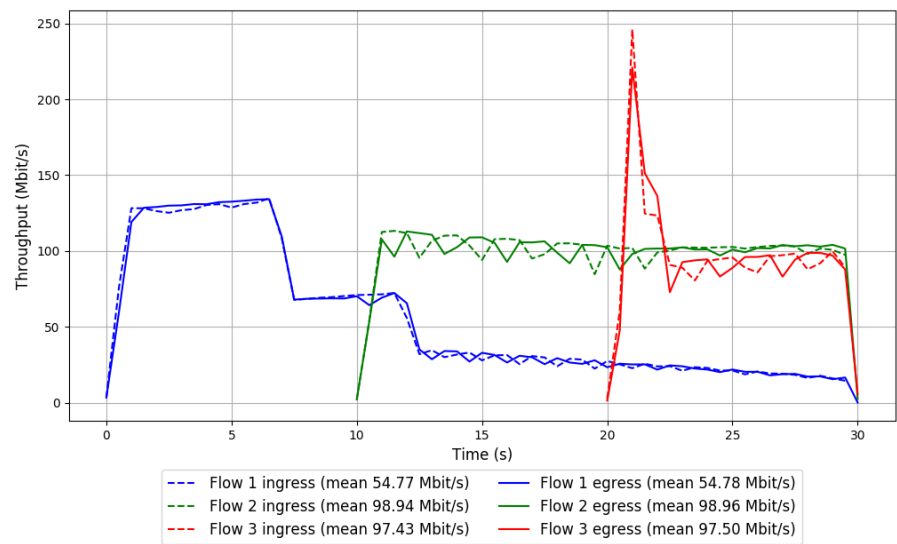
-- Flow 3:

Average throughput: 97.50 Mbit/s

95th percentile per-packet one-way delay: 58.031 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-12-06 06:00:18

End at: 2017-12-06 06:00:48

Below is generated by plot.py at 2017-12-06 09:26:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 204.07 Mbit/s

95th percentile per-packet one-way delay: 60.228 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 106.60 Mbit/s

95th percentile per-packet one-way delay: 56.964 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 127.28 Mbit/s

95th percentile per-packet one-way delay: 62.202 ms

Loss rate: 0.07%

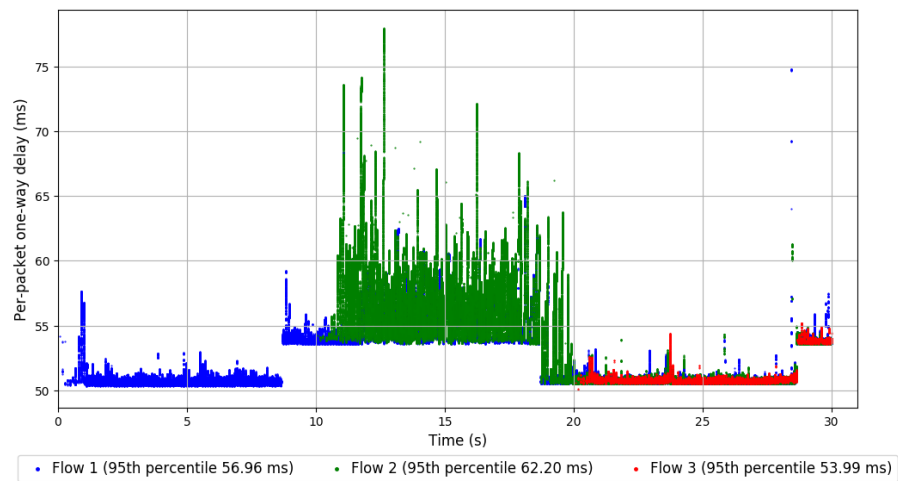
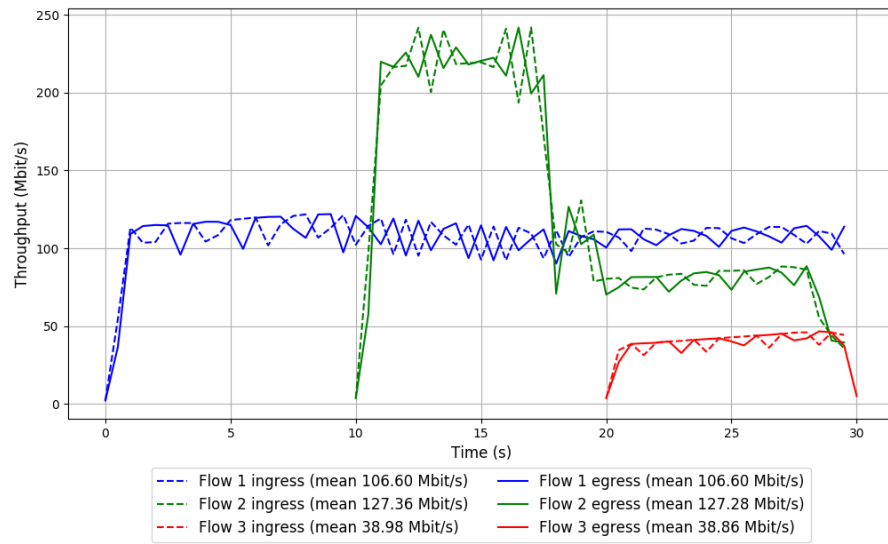
-- Flow 3:

Average throughput: 38.86 Mbit/s

95th percentile per-packet one-way delay: 53.995 ms

Loss rate: 0.30%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-12-06 06:12:40

End at: 2017-12-06 06:13:10

Below is generated by plot.py at 2017-12-06 09:26:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 103.75 Mbit/s

95th percentile per-packet one-way delay: 56.431 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 34.08 Mbit/s

95th percentile per-packet one-way delay: 54.135 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 80.55 Mbit/s

95th percentile per-packet one-way delay: 57.625 ms

Loss rate: 0.00%

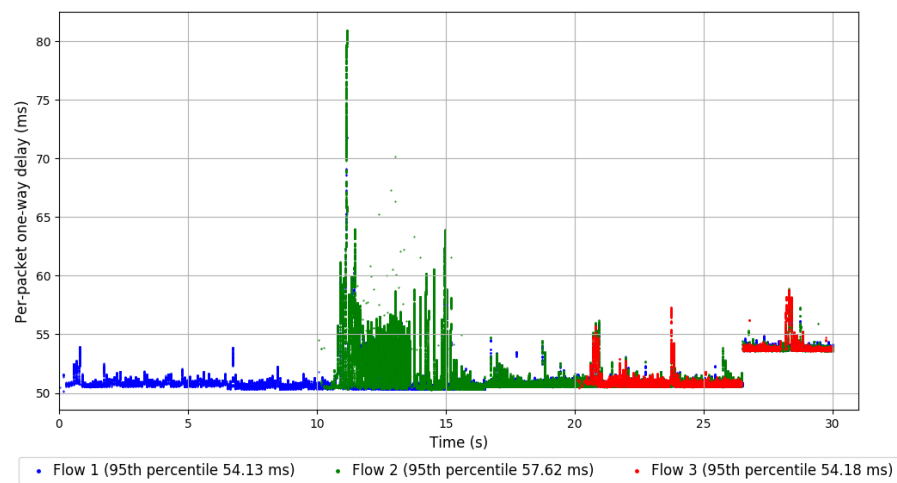
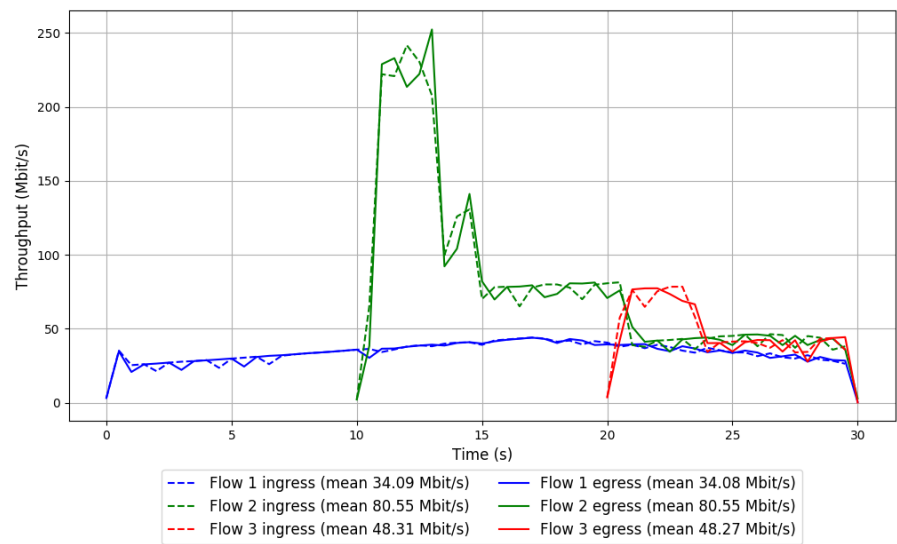
-- Flow 3:

Average throughput: 48.27 Mbit/s

95th percentile per-packet one-way delay: 54.178 ms

Loss rate: 0.05%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-12-06 06:24:52

End at: 2017-12-06 06:25:22

Below is generated by plot.py at 2017-12-06 09:26:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.42 Mbit/s

95th percentile per-packet one-way delay: 54.525 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 72.58 Mbit/s

95th percentile per-packet one-way delay: 54.597 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.33 Mbit/s

95th percentile per-packet one-way delay: 54.086 ms

Loss rate: 0.06%

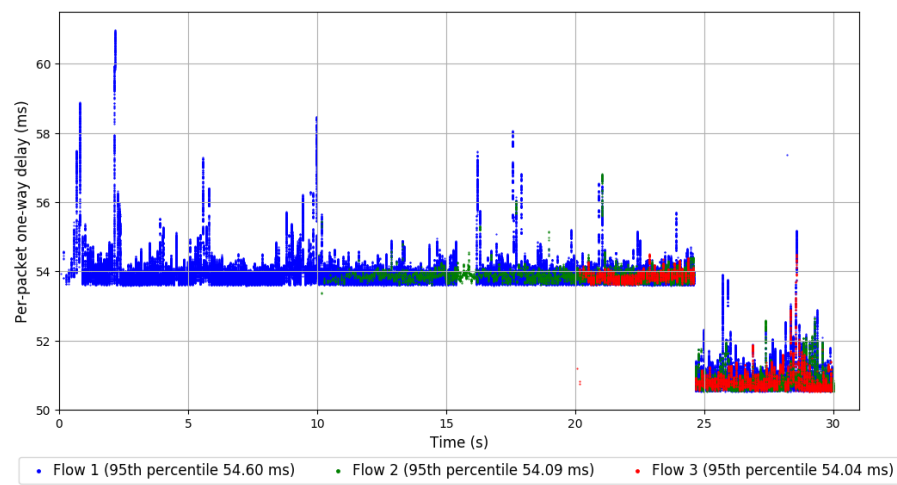
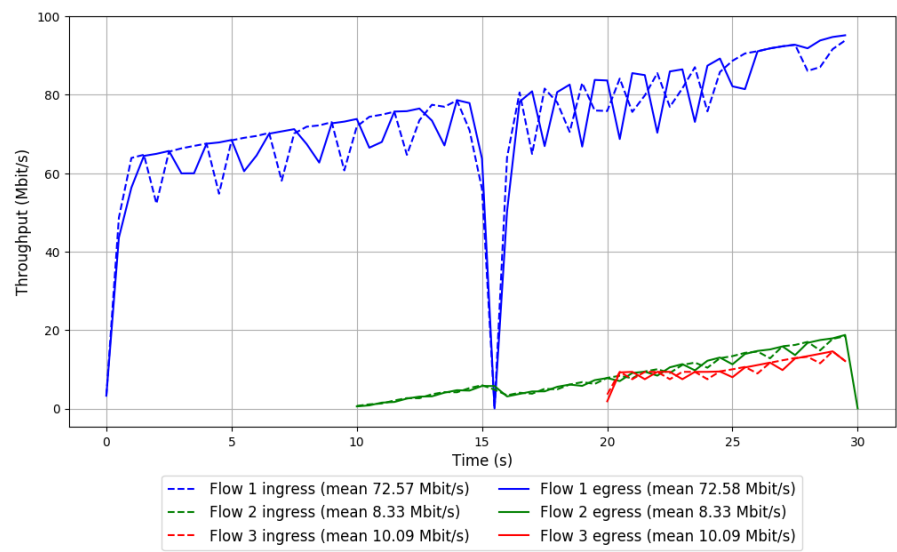
-- Flow 3:

Average throughput: 10.09 Mbit/s

95th percentile per-packet one-way delay: 54.038 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-12-06 06:36:56

End at: 2017-12-06 06:37:26

Below is generated by plot.py at 2017-12-06 09:26:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.02 Mbit/s

95th percentile per-packet one-way delay: 54.970 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 82.71 Mbit/s

95th percentile per-packet one-way delay: 54.915 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 42.98 Mbit/s

95th percentile per-packet one-way delay: 56.165 ms

Loss rate: 0.65%

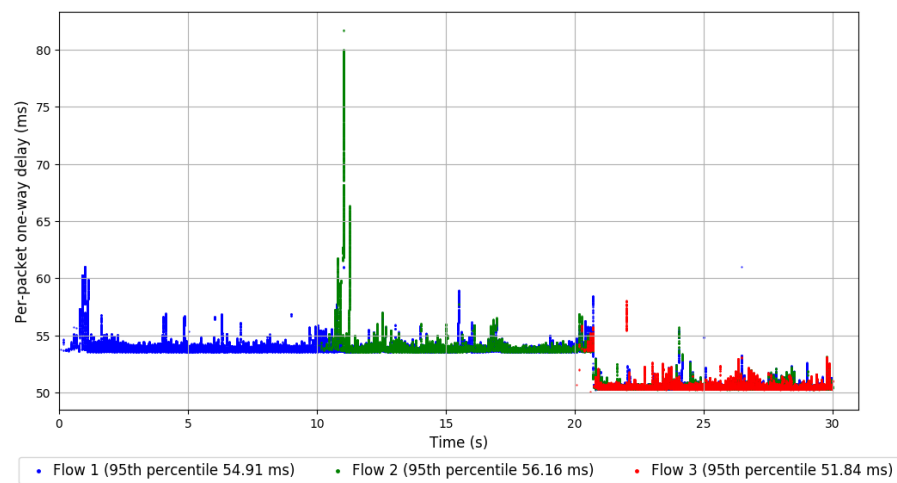
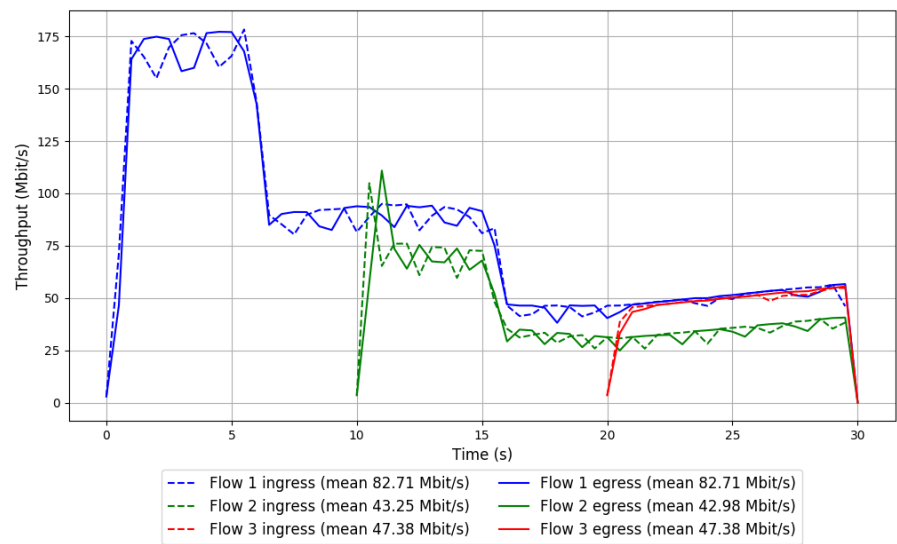
-- Flow 3:

Average throughput: 47.38 Mbit/s

95th percentile per-packet one-way delay: 51.838 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-12-06 06:49:12

End at: 2017-12-06 06:49:42

Below is generated by plot.py at 2017-12-06 09:26:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.94 Mbit/s

95th percentile per-packet one-way delay: 54.601 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 53.99 Mbit/s

95th percentile per-packet one-way delay: 54.373 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 44.92 Mbit/s

95th percentile per-packet one-way delay: 54.623 ms

Loss rate: 0.63%

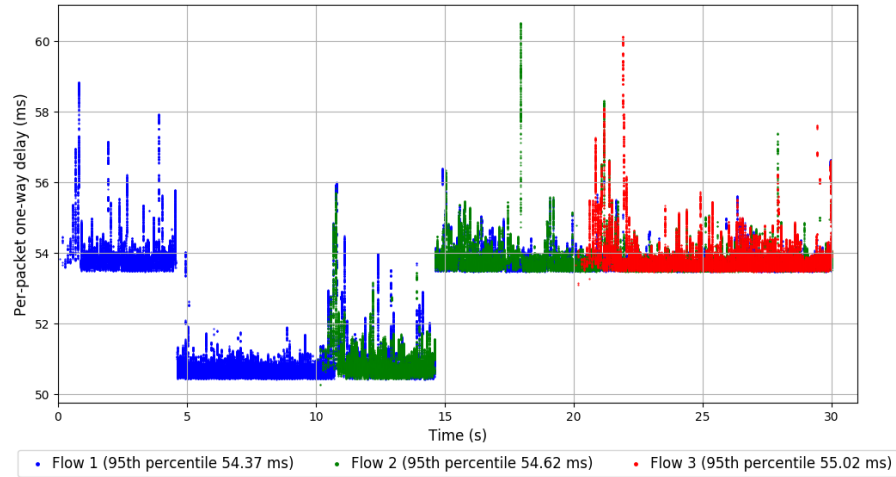
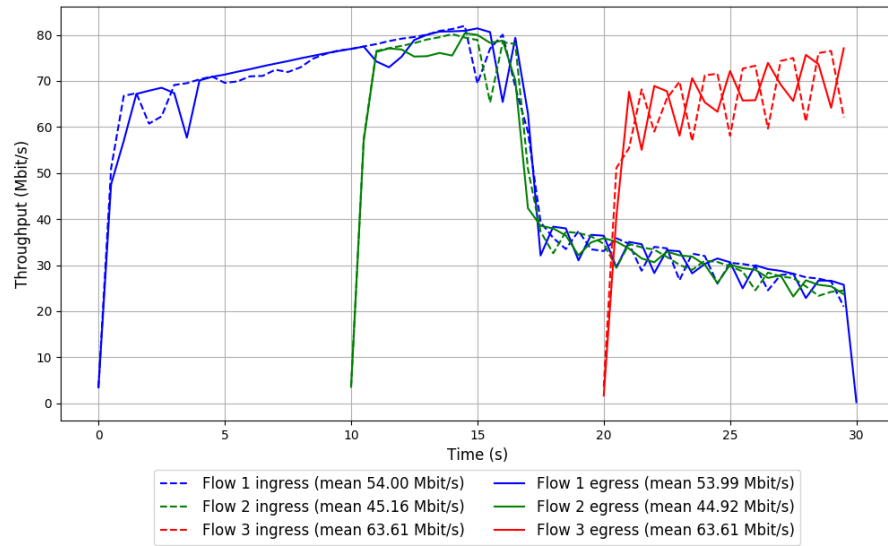
-- Flow 3:

Average throughput: 63.61 Mbit/s

95th percentile per-packet one-way delay: 55.025 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-12-06 07:01:14

End at: 2017-12-06 07:01:44

Below is generated by plot.py at 2017-12-06 09:26:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.81 Mbit/s

95th percentile per-packet one-way delay: 54.577 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 9.79 Mbit/s

95th percentile per-packet one-way delay: 54.162 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.10 Mbit/s

95th percentile per-packet one-way delay: 54.698 ms

Loss rate: 0.13%

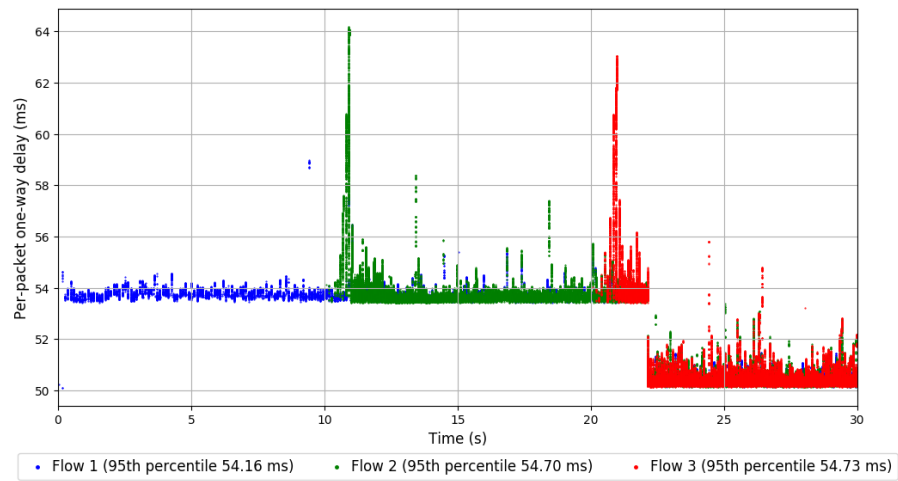
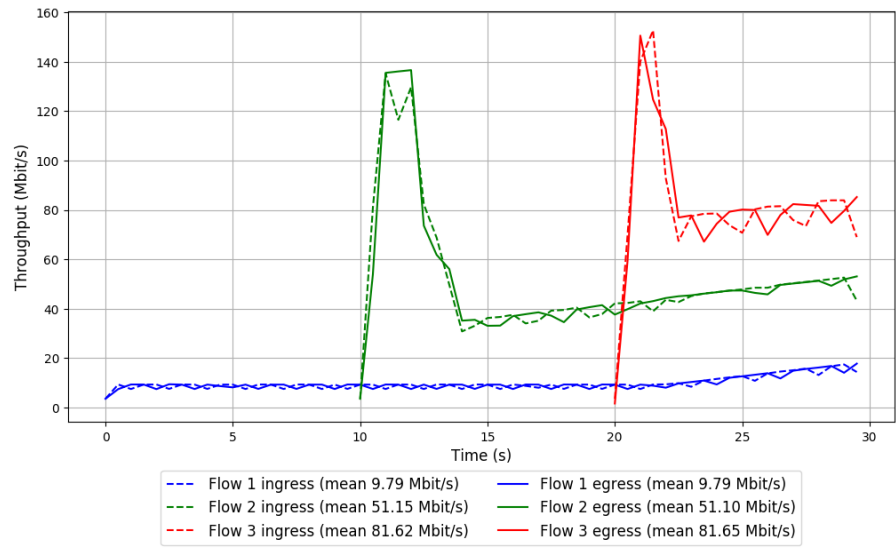
-- Flow 3:

Average throughput: 81.65 Mbit/s

95th percentile per-packet one-way delay: 54.725 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-12-06 07:13:43

End at: 2017-12-06 07:14:13

Below is generated by plot.py at 2017-12-06 09:26:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 181.68 Mbit/s

95th percentile per-packet one-way delay: 51.924 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 74.99 Mbit/s

95th percentile per-packet one-way delay: 51.384 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 112.19 Mbit/s

95th percentile per-packet one-way delay: 52.341 ms

Loss rate: 0.00%

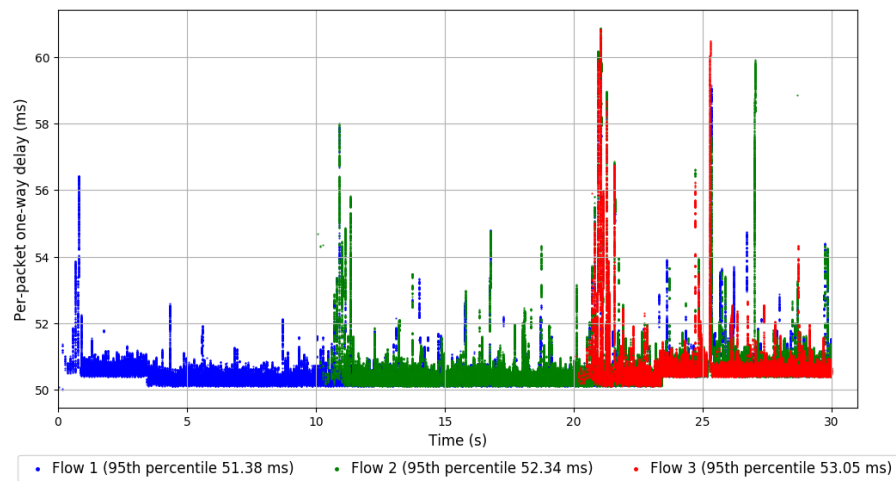
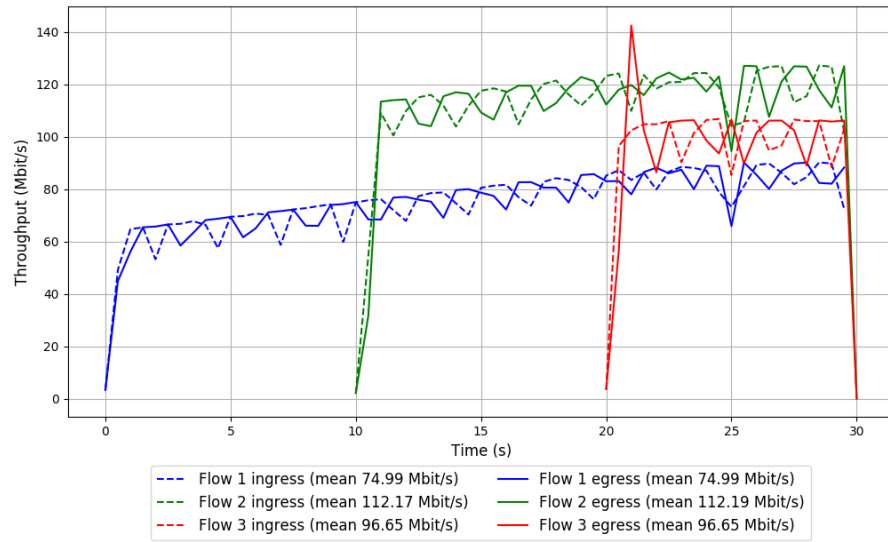
-- Flow 3:

Average throughput: 96.65 Mbit/s

95th percentile per-packet one-way delay: 53.045 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-12-06 07:25:43

End at: 2017-12-06 07:26:13

Below is generated by plot.py at 2017-12-06 09:26:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 118.22 Mbit/s

95th percentile per-packet one-way delay: 54.649 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 58.08 Mbit/s

95th percentile per-packet one-way delay: 53.788 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 54.10 Mbit/s

95th percentile per-packet one-way delay: 54.590 ms

Loss rate: 0.00%

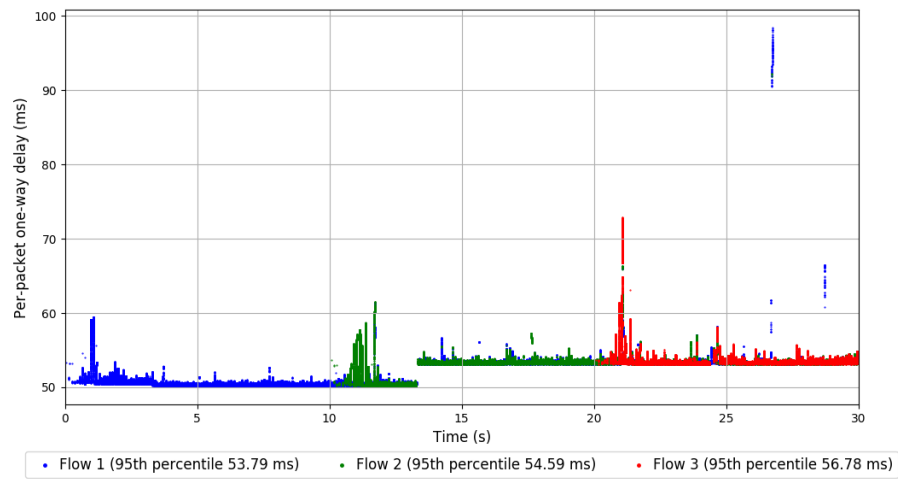
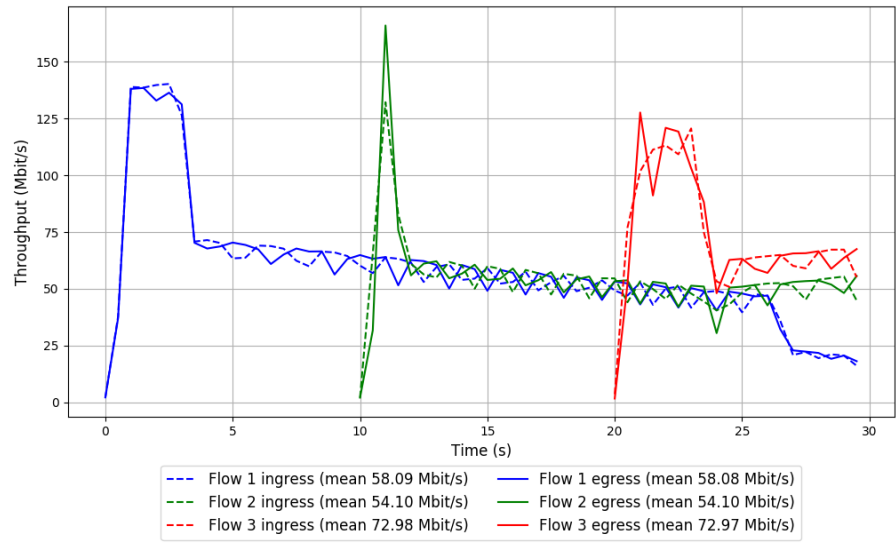
-- Flow 3:

Average throughput: 72.97 Mbit/s

95th percentile per-packet one-way delay: 56.778 ms

Loss rate: 0.01%

Run 10: Report of TCP Vegas — Data Link

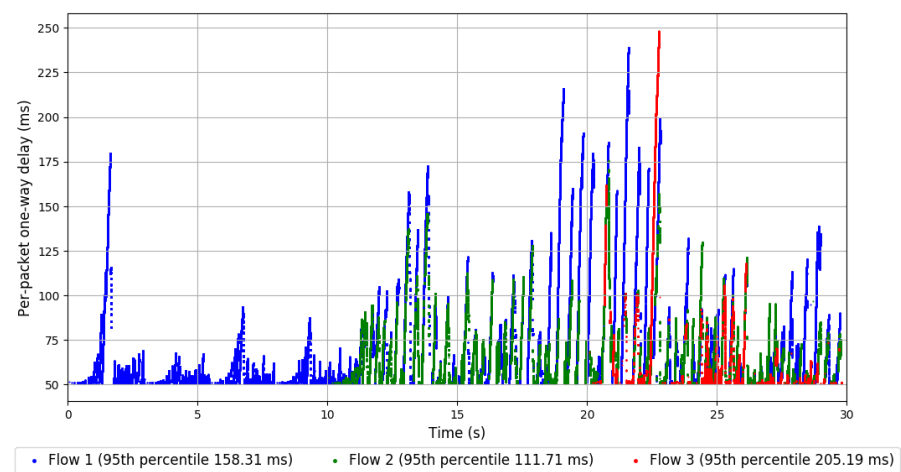
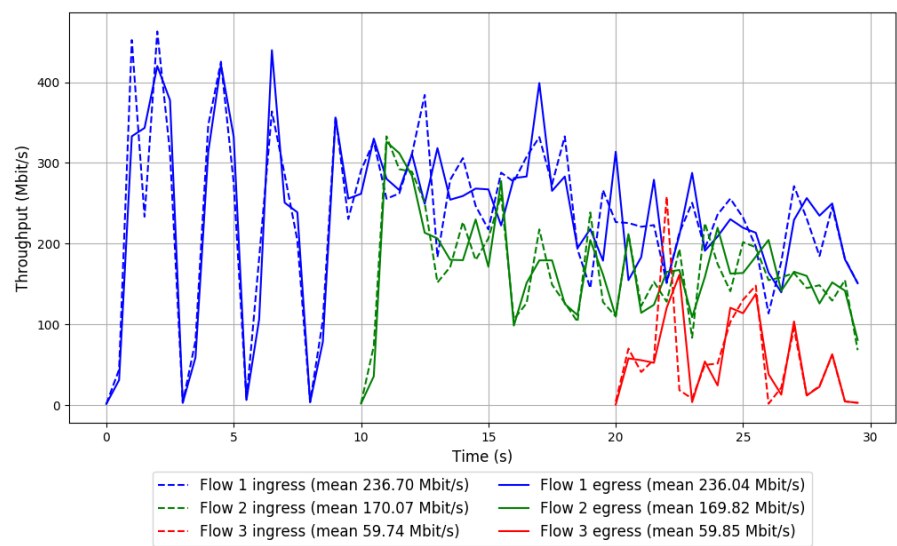


```
Run 1: Statistics of Verus

Start at: 2017-12-06 05:42:06
End at: 2017-12-06 05:42:36

# Below is generated by plot.py at 2017-12-06 09:26:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 367.53 Mbit/s
95th percentile per-packet one-way delay: 147.794 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 236.04 Mbit/s
95th percentile per-packet one-way delay: 158.313 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 169.82 Mbit/s
95th percentile per-packet one-way delay: 111.711 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 59.85 Mbit/s
95th percentile per-packet one-way delay: 205.191 ms
Loss rate: 0.00%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-12-06 05:54:36

End at: 2017-12-06 05:55:06

Below is generated by plot.py at 2017-12-06 09:26:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 350.22 Mbit/s

95th percentile per-packet one-way delay: 230.436 ms

Loss rate: 3.07%

-- Flow 1:

Average throughput: 266.85 Mbit/s

95th percentile per-packet one-way delay: 204.371 ms

Loss rate: 2.22%

-- Flow 2:

Average throughput: 104.68 Mbit/s

95th percentile per-packet one-way delay: 278.191 ms

Loss rate: 7.09%

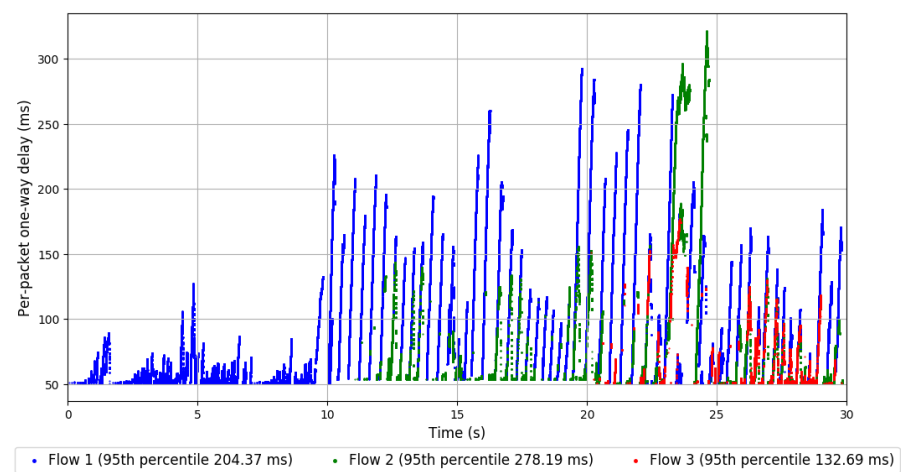
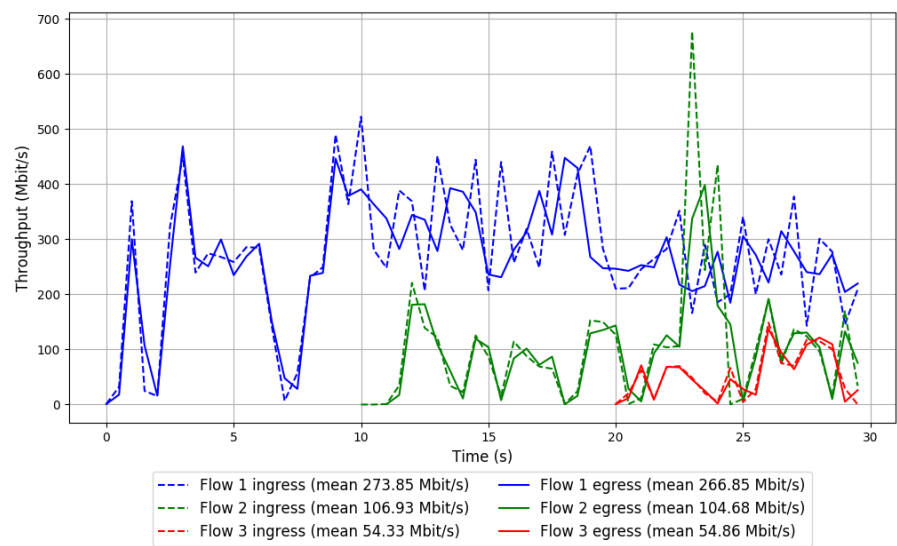
-- Flow 3:

Average throughput: 54.86 Mbit/s

95th percentile per-packet one-way delay: 132.694 ms

Loss rate: 0.06%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-12-06 06:06:52

End at: 2017-12-06 06:07:22

Below is generated by plot.py at 2017-12-06 09:27:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 365.55 Mbit/s

95th percentile per-packet one-way delay: 160.136 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 240.78 Mbit/s

95th percentile per-packet one-way delay: 140.997 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 142.36 Mbit/s

95th percentile per-packet one-way delay: 132.445 ms

Loss rate: 0.18%

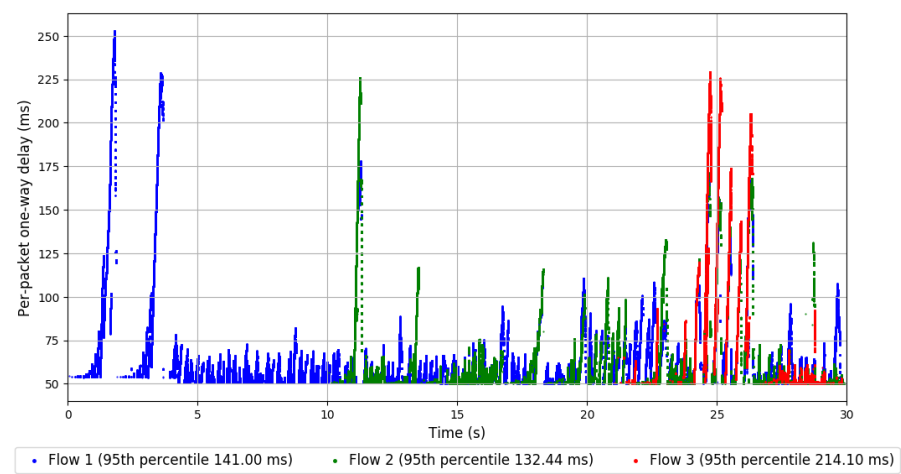
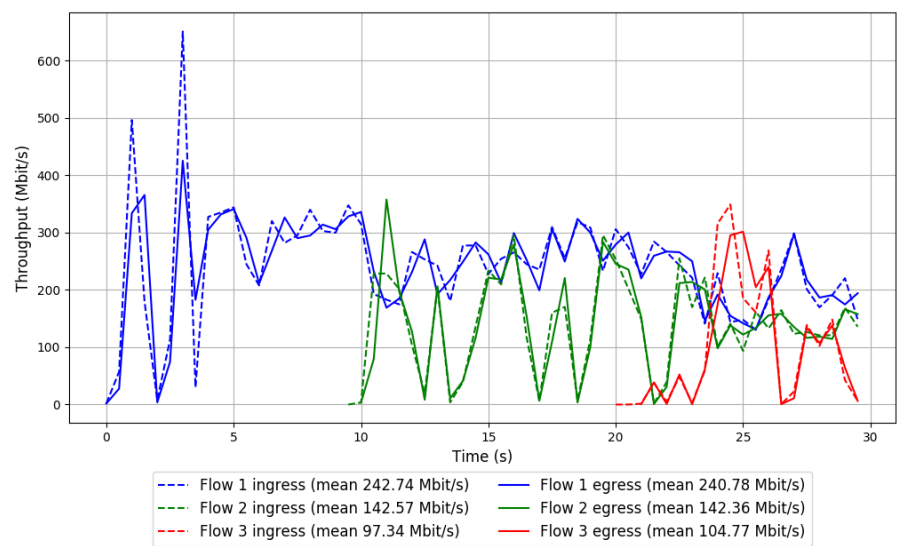
-- Flow 3:

Average throughput: 104.77 Mbit/s

95th percentile per-packet one-way delay: 214.104 ms

Loss rate: 3.38%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-12-06 06:19:05

End at: 2017-12-06 06:19:35

Below is generated by plot.py at 2017-12-06 09:27:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 349.96 Mbit/s

95th percentile per-packet one-way delay: 193.065 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 218.20 Mbit/s

95th percentile per-packet one-way delay: 201.804 ms

Loss rate: 1.31%

-- Flow 2:

Average throughput: 149.44 Mbit/s

95th percentile per-packet one-way delay: 163.315 ms

Loss rate: 0.78%

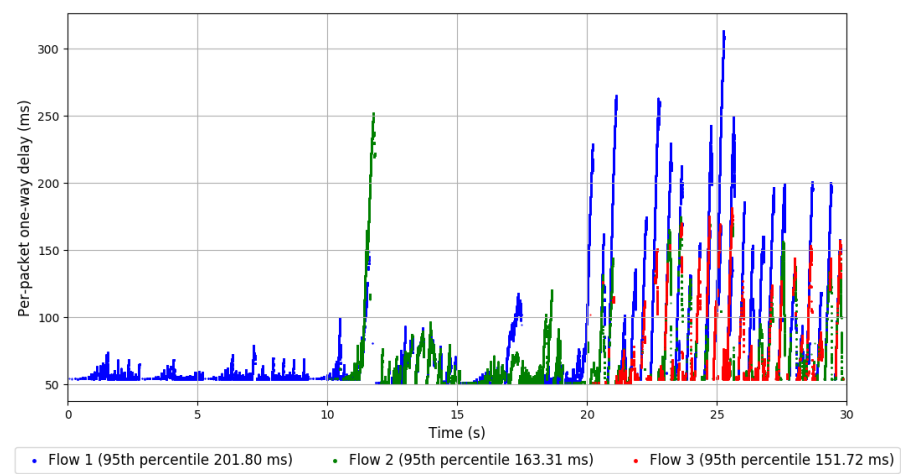
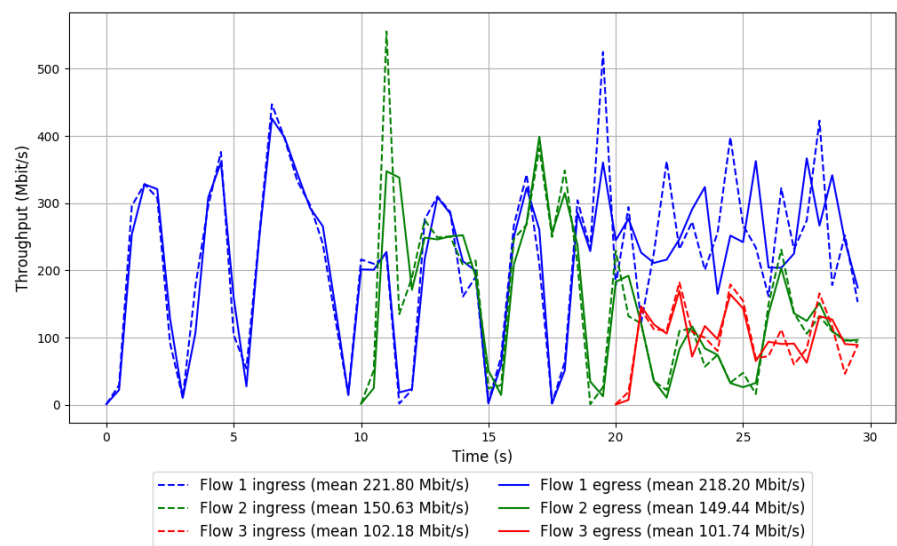
-- Flow 3:

Average throughput: 101.74 Mbit/s

95th percentile per-packet one-way delay: 151.717 ms

Loss rate: 0.92%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-12-06 06:31:06

End at: 2017-12-06 06:31:36

Below is generated by plot.py at 2017-12-06 09:28:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 348.24 Mbit/s

95th percentile per-packet one-way delay: 102.329 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 218.24 Mbit/s

95th percentile per-packet one-way delay: 103.537 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 132.96 Mbit/s

95th percentile per-packet one-way delay: 102.689 ms

Loss rate: 0.13%

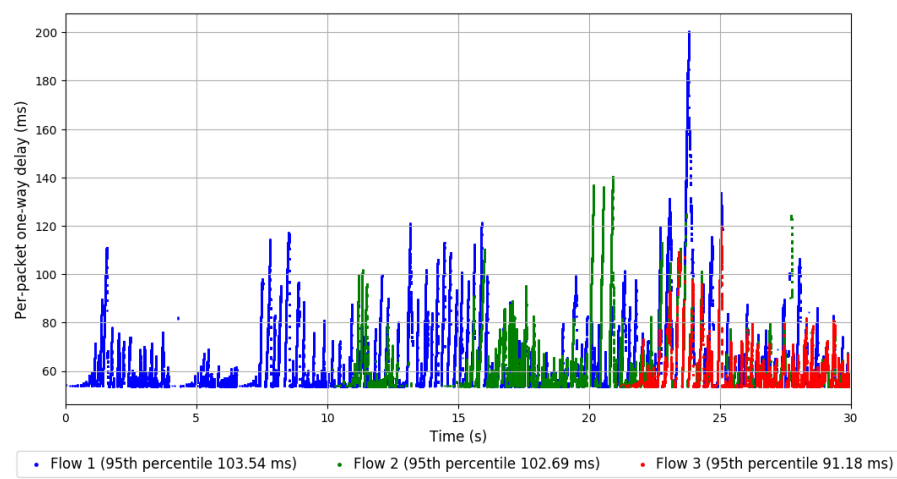
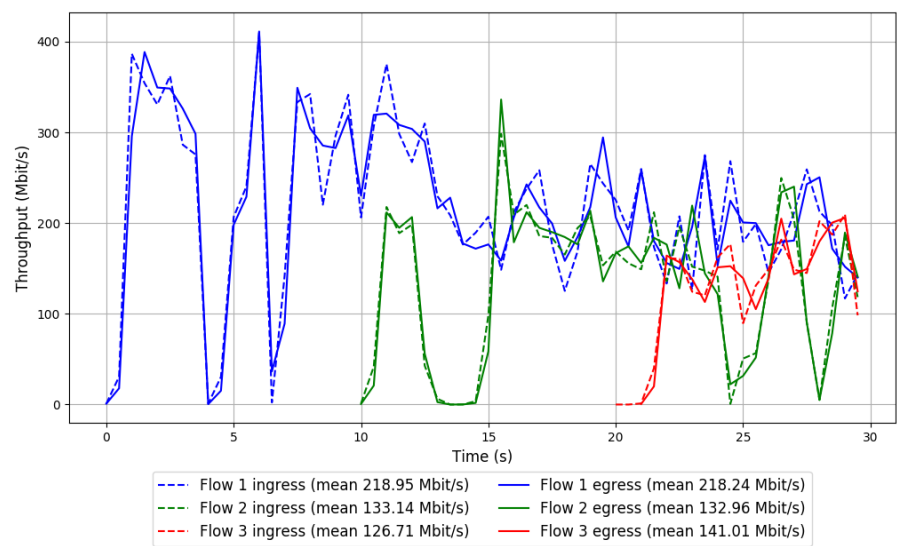
-- Flow 3:

Average throughput: 141.01 Mbit/s

95th percentile per-packet one-way delay: 91.179 ms

Loss rate: 0.04%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-12-06 06:43:25

End at: 2017-12-06 06:43:55

Below is generated by plot.py at 2017-12-06 09:28:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 335.19 Mbit/s

95th percentile per-packet one-way delay: 100.508 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 175.67 Mbit/s

95th percentile per-packet one-way delay: 95.745 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 183.19 Mbit/s

95th percentile per-packet one-way delay: 104.434 ms

Loss rate: 0.02%

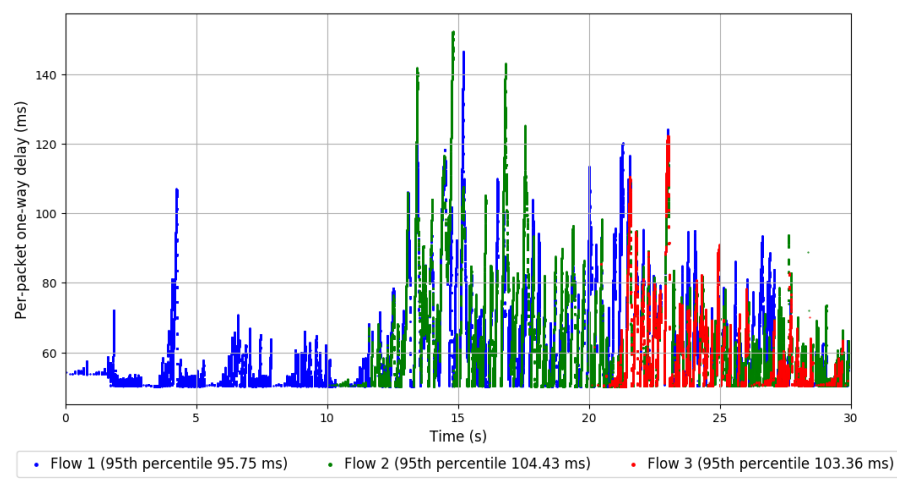
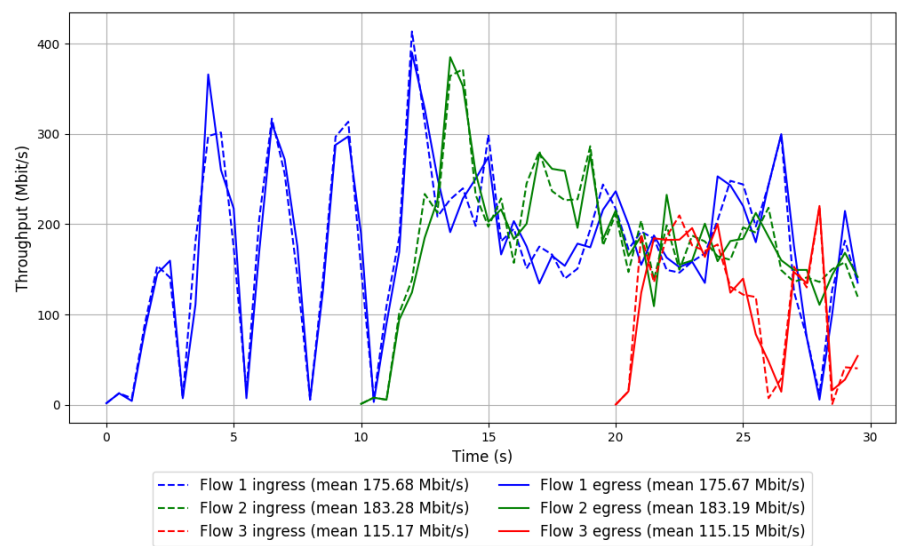
-- Flow 3:

Average throughput: 115.15 Mbit/s

95th percentile per-packet one-way delay: 103.360 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-12-06 06:55:21

End at: 2017-12-06 06:55:51

Below is generated by plot.py at 2017-12-06 09:29:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 363.41 Mbit/s

95th percentile per-packet one-way delay: 161.944 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 176.05 Mbit/s

95th percentile per-packet one-way delay: 121.851 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 166.83 Mbit/s

95th percentile per-packet one-way delay: 129.160 ms

Loss rate: 0.42%

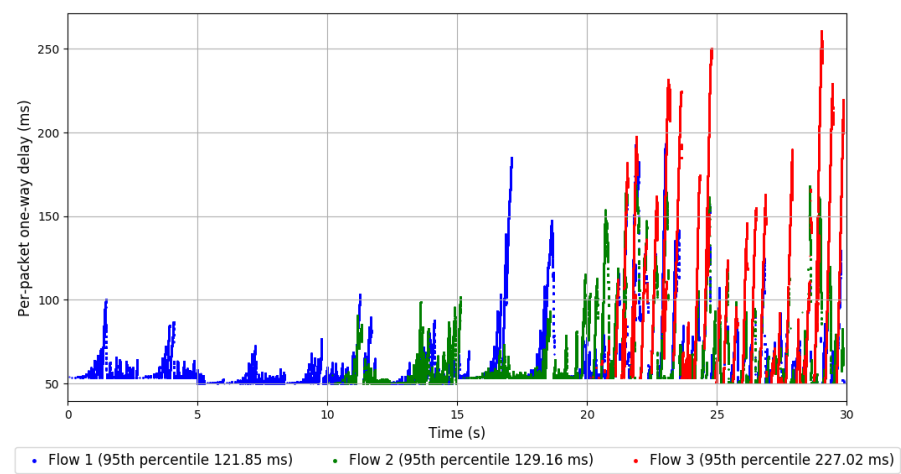
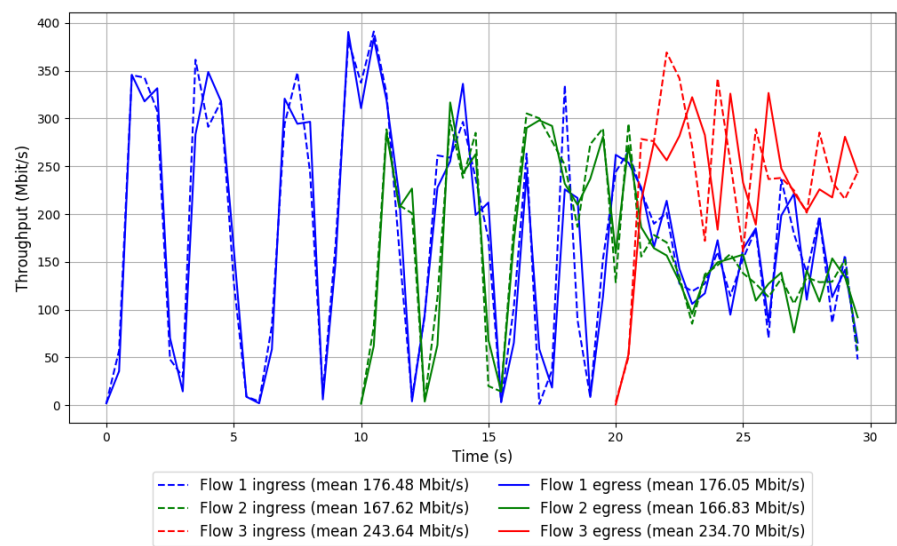
-- Flow 3:

Average throughput: 234.70 Mbit/s

95th percentile per-packet one-way delay: 227.019 ms

Loss rate: 2.21%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-12-06 07:07:48

End at: 2017-12-06 07:08:18

Below is generated by plot.py at 2017-12-06 09:33:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 382.43 Mbit/s

95th percentile per-packet one-way delay: 178.745 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 270.57 Mbit/s

95th percentile per-packet one-way delay: 187.461 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 113.81 Mbit/s

95th percentile per-packet one-way delay: 82.452 ms

Loss rate: 0.18%

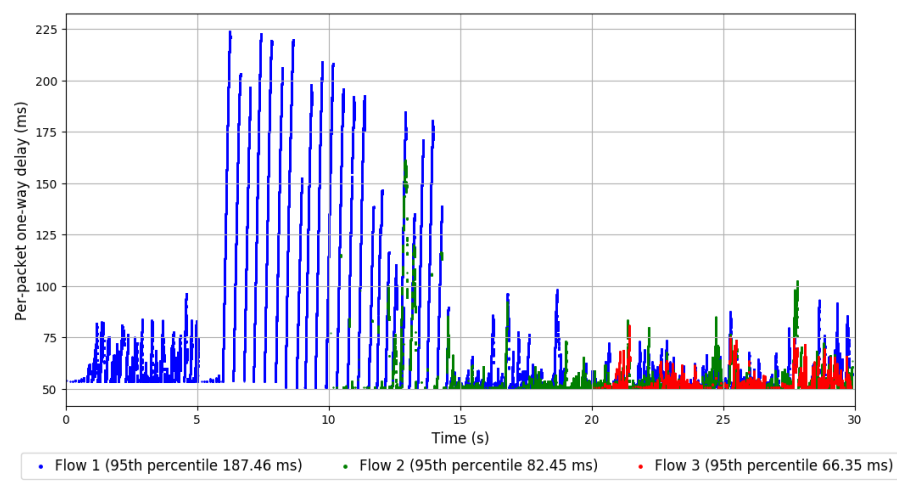
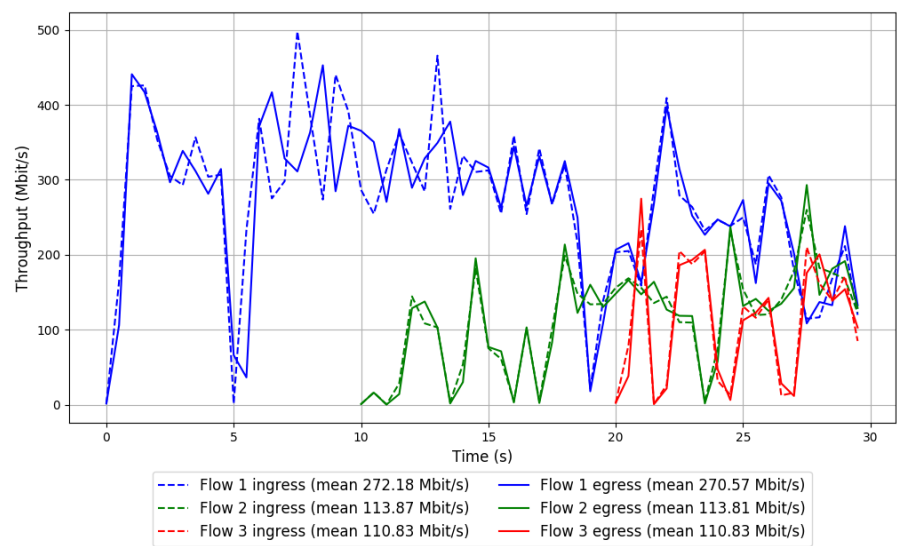
-- Flow 3:

Average throughput: 110.83 Mbit/s

95th percentile per-packet one-way delay: 66.351 ms

Loss rate: 0.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-12-06 07:19:56

End at: 2017-12-06 07:20:26

Below is generated by plot.py at 2017-12-06 09:33:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 353.75 Mbit/s

95th percentile per-packet one-way delay: 93.685 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 215.58 Mbit/s

95th percentile per-packet one-way delay: 103.313 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 166.09 Mbit/s

95th percentile per-packet one-way delay: 90.153 ms

Loss rate: 0.01%

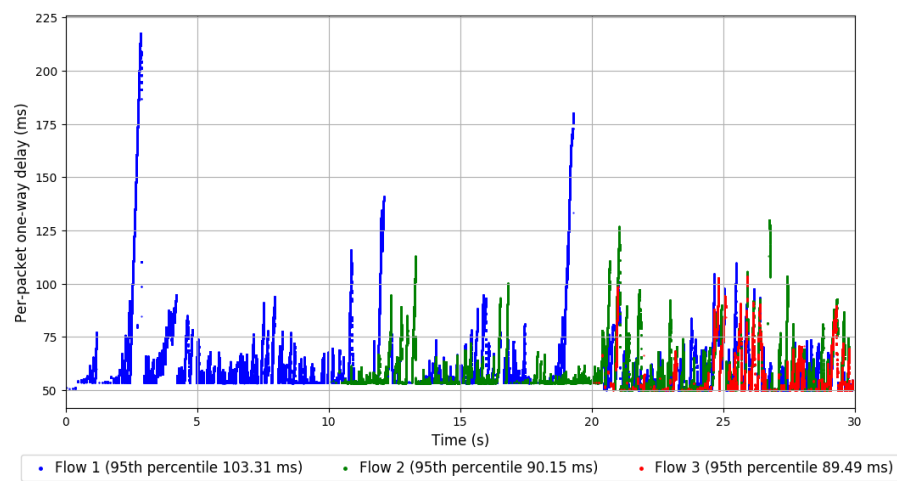
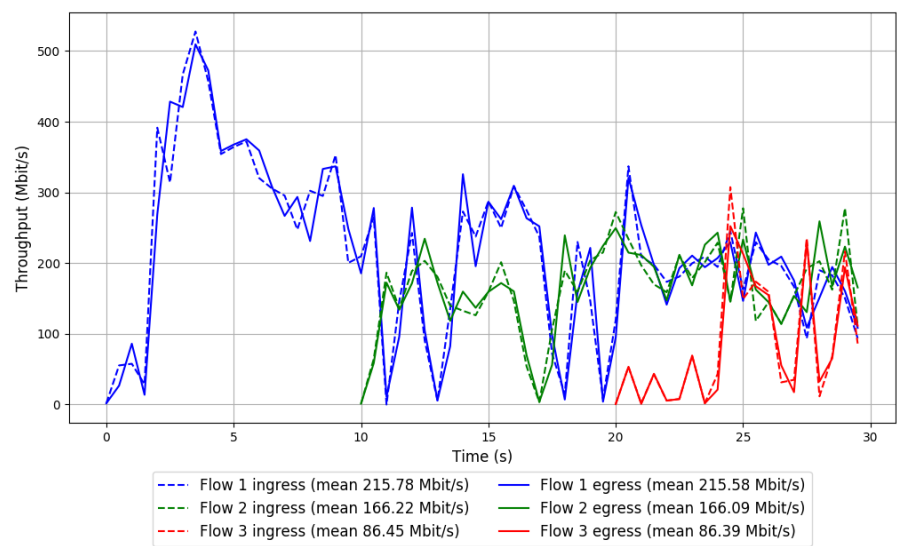
-- Flow 3:

Average throughput: 86.39 Mbit/s

95th percentile per-packet one-way delay: 89.493 ms

Loss rate: 0.07%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-12-06 07:31:47

End at: 2017-12-06 07:32:17

Below is generated by plot.py at 2017-12-06 09:33:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 396.76 Mbit/s

95th percentile per-packet one-way delay: 175.246 ms

Loss rate: 2.22%

-- Flow 1:

Average throughput: 208.67 Mbit/s

95th percentile per-packet one-way delay: 117.115 ms

Loss rate: 1.86%

-- Flow 2:

Average throughput: 169.23 Mbit/s

95th percentile per-packet one-way delay: 154.739 ms

Loss rate: 1.39%

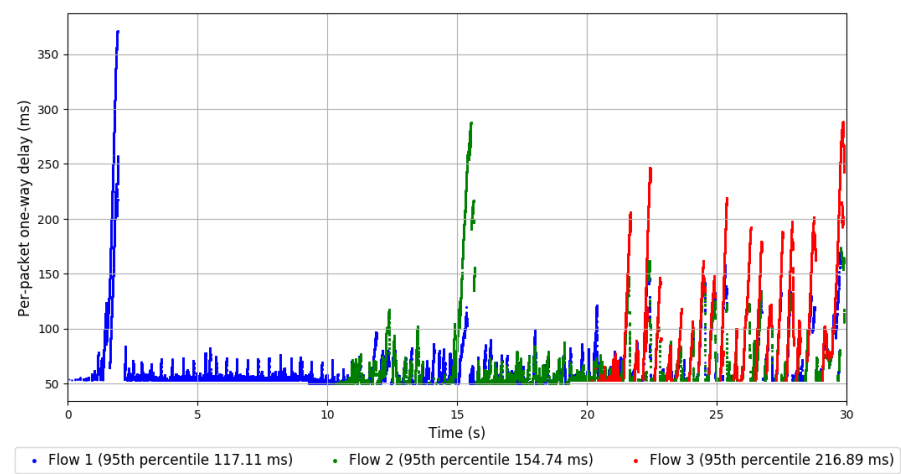
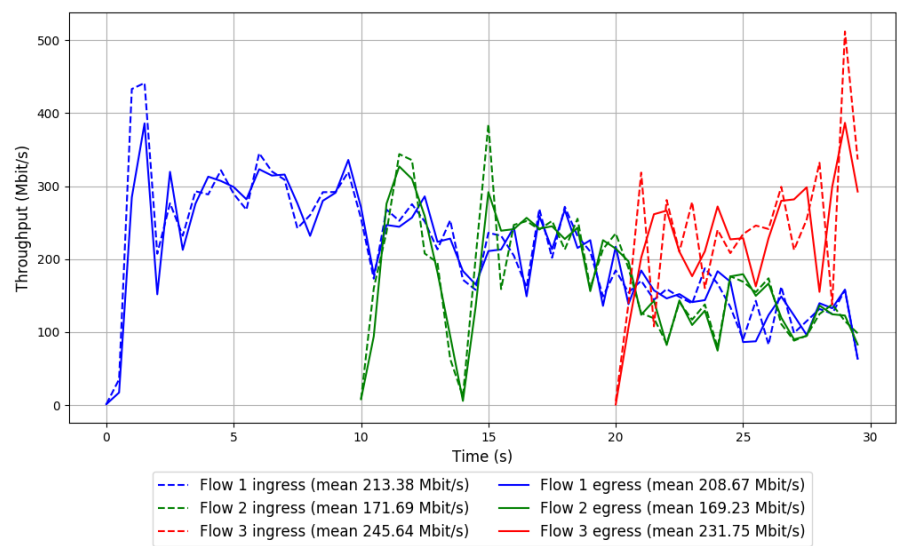
-- Flow 3:

Average throughput: 231.75 Mbit/s

95th percentile per-packet one-way delay: 216.890 ms

Loss rate: 4.36%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-12-06 05:36:44

End at: 2017-12-06 05:37:14

Below is generated by plot.py at 2017-12-06 09:33:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 142.45 Mbit/s

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

Loss rate: 0.01%

-- Flow 1:

Average throughput: 74.46 Mbit/s

95th percentile per-packet one-way delay: 53.769 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 71.07 Mbit/s

95th percentile per-packet one-way delay: 53.788 ms

Loss rate: 0.01%

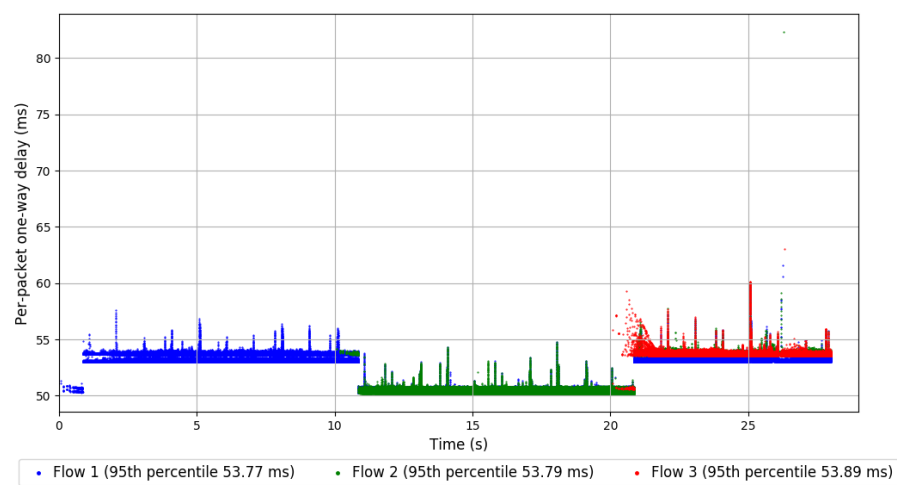
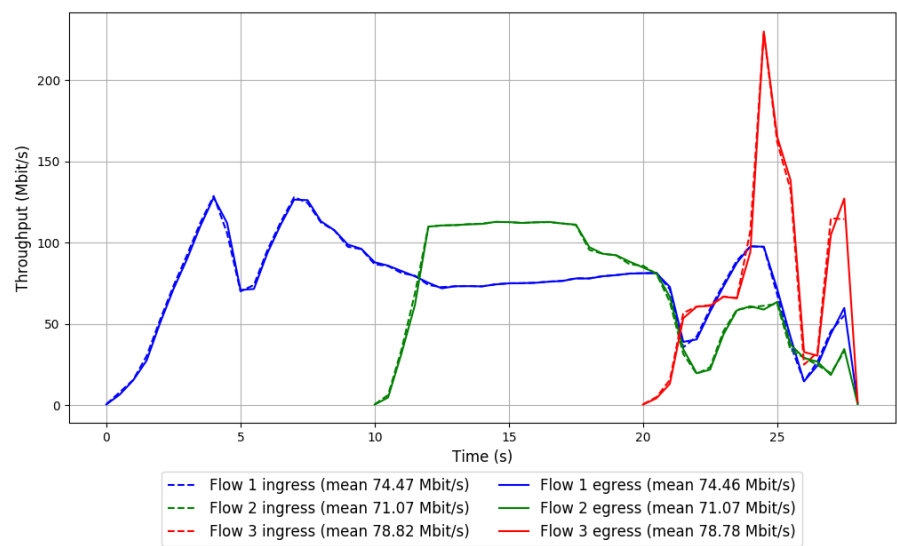
-- Flow 3:

Average throughput: 78.78 Mbit/s

95th percentile per-packet one-way delay: 53.887 ms

Loss rate: 0.04%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-12-06 05:48:43

End at: 2017-12-06 05:49:13

Below is generated by plot.py at 2017-12-06 09:33:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 144.87 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 86.32 Mbit/s

95th percentile per-packet one-way delay: 53.782 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 62.84 Mbit/s

95th percentile per-packet one-way delay: 53.817 ms

Loss rate: 0.00%

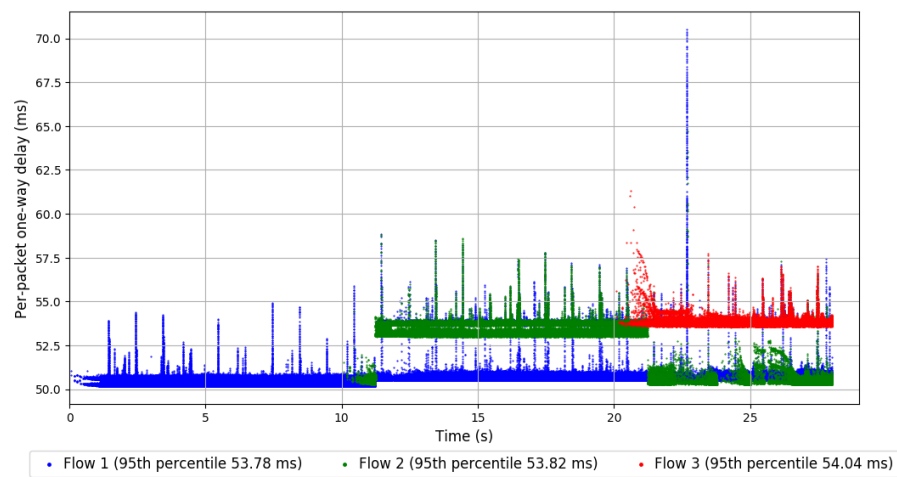
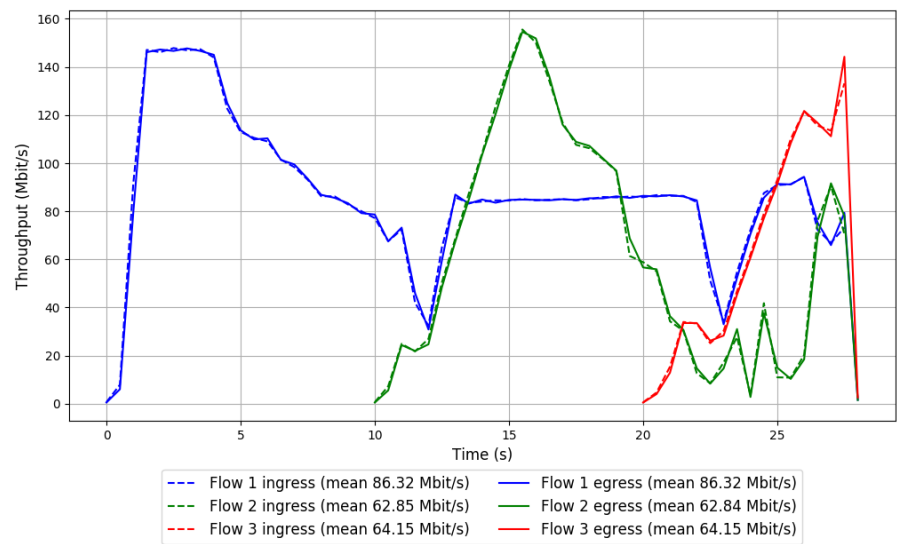
-- Flow 3:

Average throughput: 64.15 Mbit/s

95th percentile per-packet one-way delay: 54.041 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-12-06 06:01:09

End at: 2017-12-06 06:01:39

Below is generated by plot.py at 2017-12-06 09:33:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 148.10 Mbit/s

95th percentile per-packet one-way delay: 53.777 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 82.78 Mbit/s

95th percentile per-packet one-way delay: 53.809 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.77 Mbit/s

95th percentile per-packet one-way delay: 53.732 ms

Loss rate: 0.00%

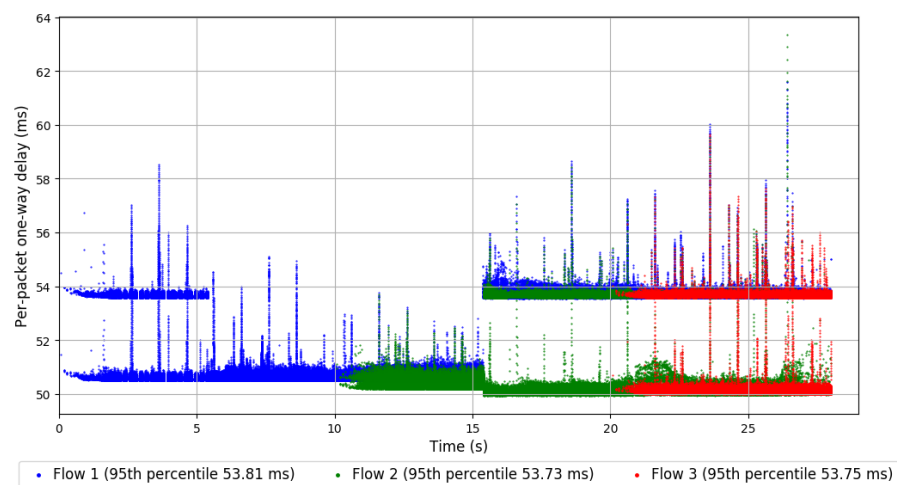
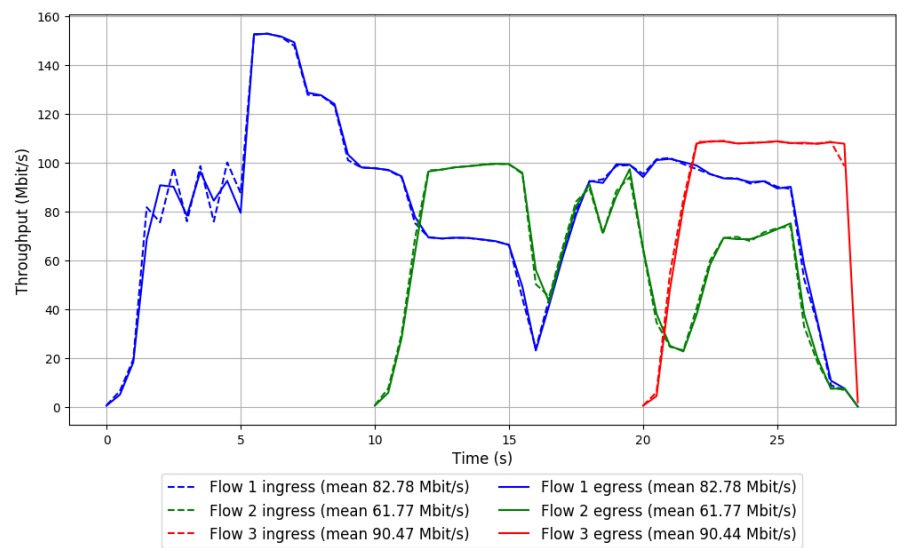
-- Flow 3:

Average throughput: 90.44 Mbit/s

95th percentile per-packet one-way delay: 53.749 ms

Loss rate: 0.04%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-12-06 06:13:25

End at: 2017-12-06 06:13:55

Below is generated by plot.py at 2017-12-06 09:33:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 137.63 Mbit/s

95th percentile per-packet one-way delay: 53.321 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 73.18 Mbit/s

95th percentile per-packet one-way delay: 53.313 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 67.38 Mbit/s

95th percentile per-packet one-way delay: 53.382 ms

Loss rate: 0.01%

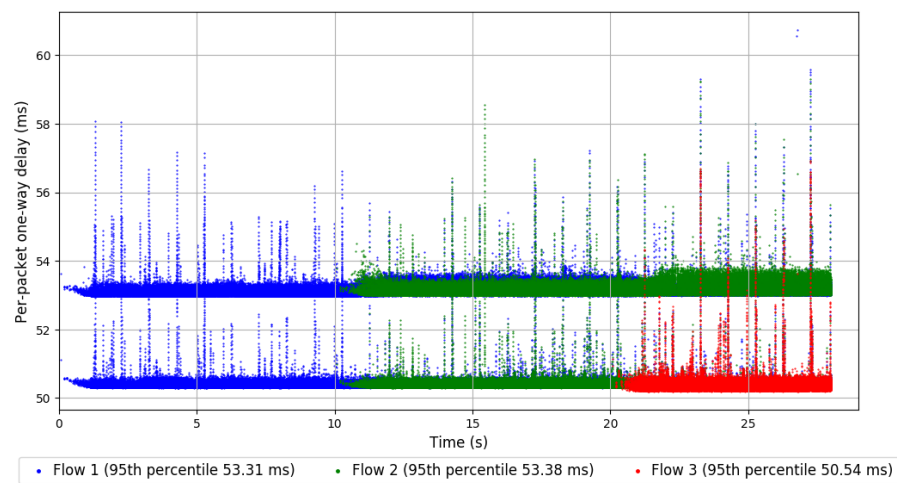
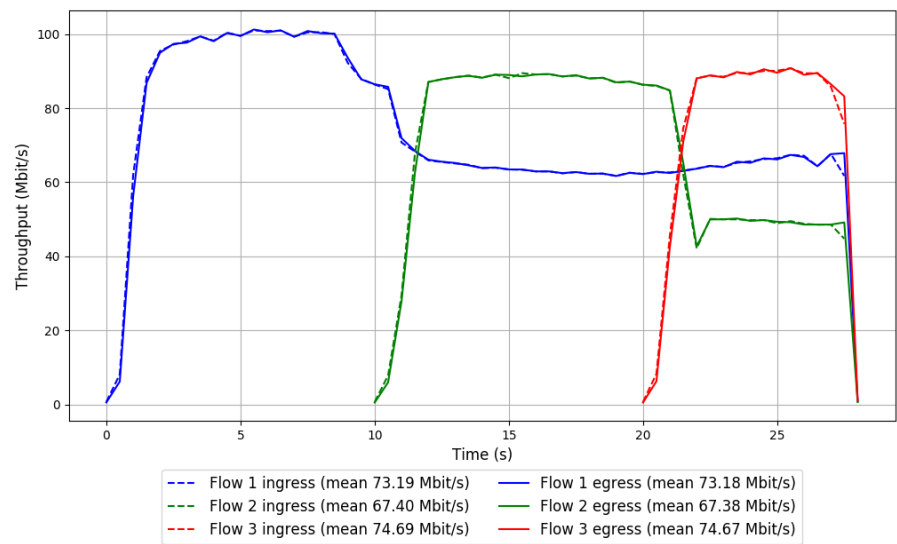
-- Flow 3:

Average throughput: 74.67 Mbit/s

95th percentile per-packet one-way delay: 50.538 ms

Loss rate: 0.03%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-12-06 06:25:36

End at: 2017-12-06 06:26:06

Below is generated by plot.py at 2017-12-06 09:34:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 153.30 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 81.34 Mbit/s

95th percentile per-packet one-way delay: 53.762 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 79.39 Mbit/s

95th percentile per-packet one-way delay: 53.769 ms

Loss rate: 0.00%

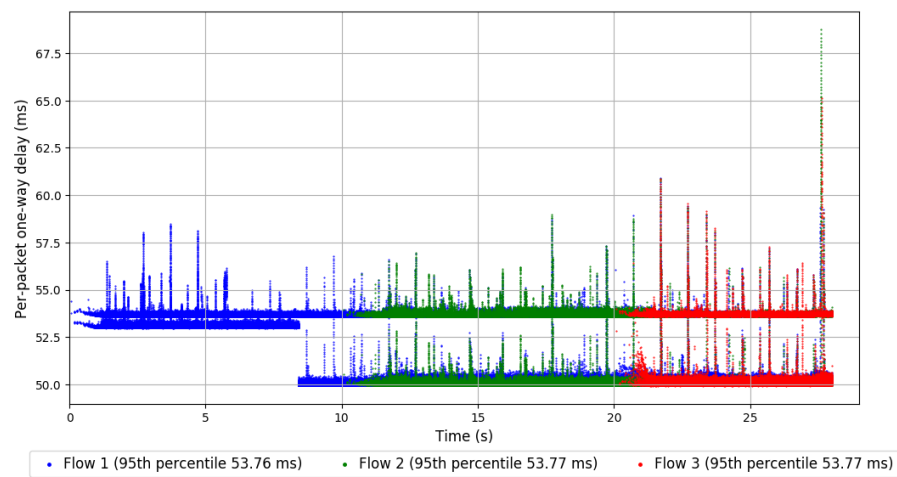
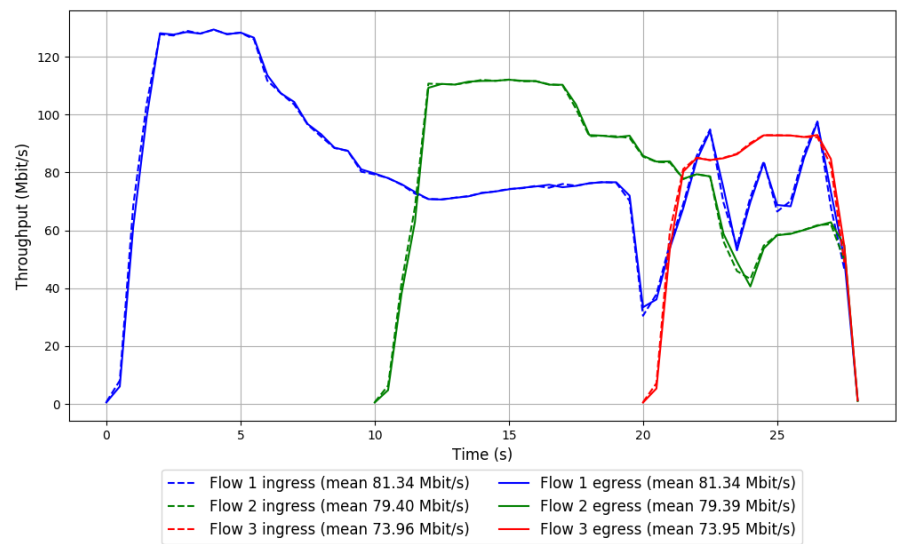
-- Flow 3:

Average throughput: 73.95 Mbit/s

95th percentile per-packet one-way delay: 53.769 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-12-06 06:37:43

End at: 2017-12-06 06:38:13

Below is generated by plot.py at 2017-12-06 09:36:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 158.06 Mbit/s

95th percentile per-packet one-way delay: 53.850 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 74.93 Mbit/s

95th percentile per-packet one-way delay: 53.949 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 86.13 Mbit/s

95th percentile per-packet one-way delay: 53.735 ms

Loss rate: 0.01%

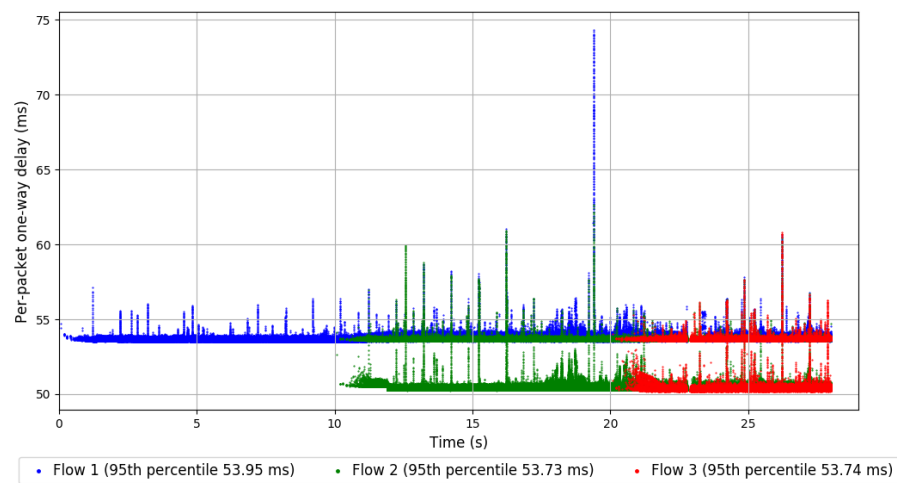
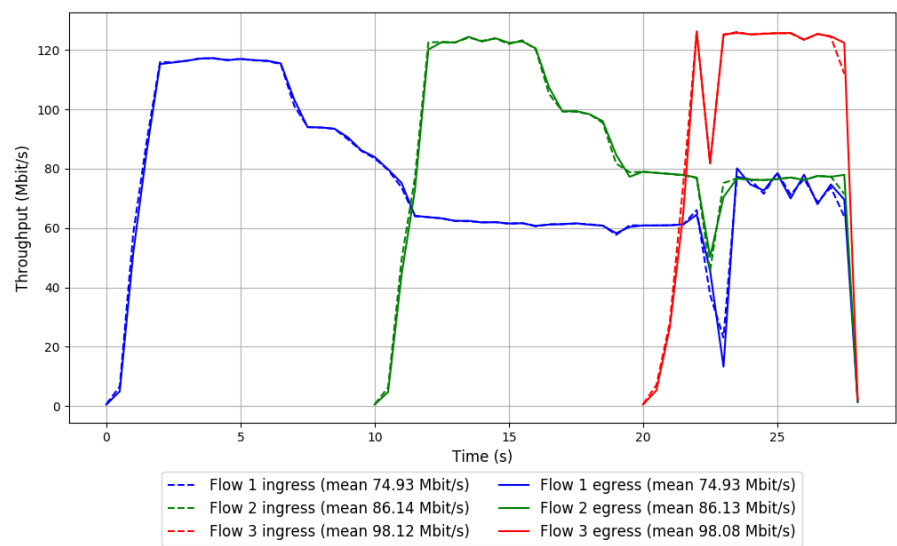
-- Flow 3:

Average throughput: 98.08 Mbit/s

95th percentile per-packet one-way delay: 53.740 ms

Loss rate: 0.04%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-12-06 06:49:57

End at: 2017-12-06 06:50:27

Below is generated by plot.py at 2017-12-06 09:36:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 143.44 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 85.07 Mbit/s

95th percentile per-packet one-way delay: 53.643 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 55.67 Mbit/s

95th percentile per-packet one-way delay: 53.964 ms

Loss rate: 0.00%

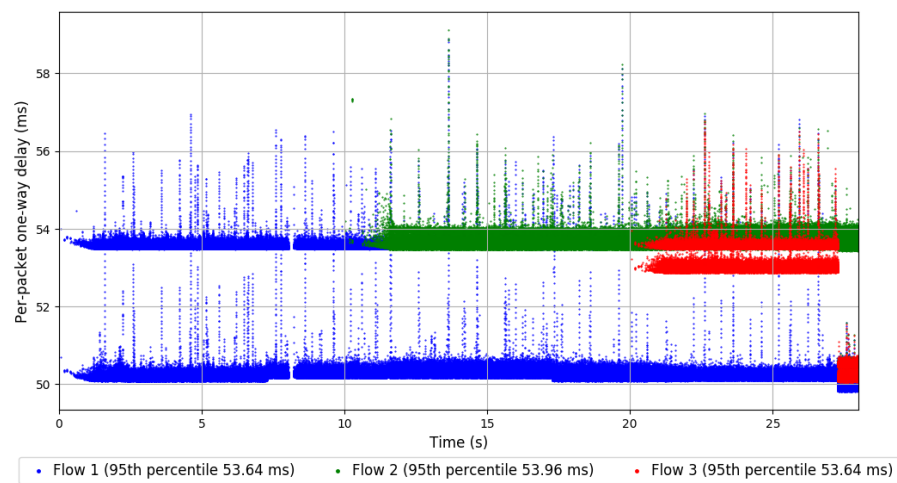
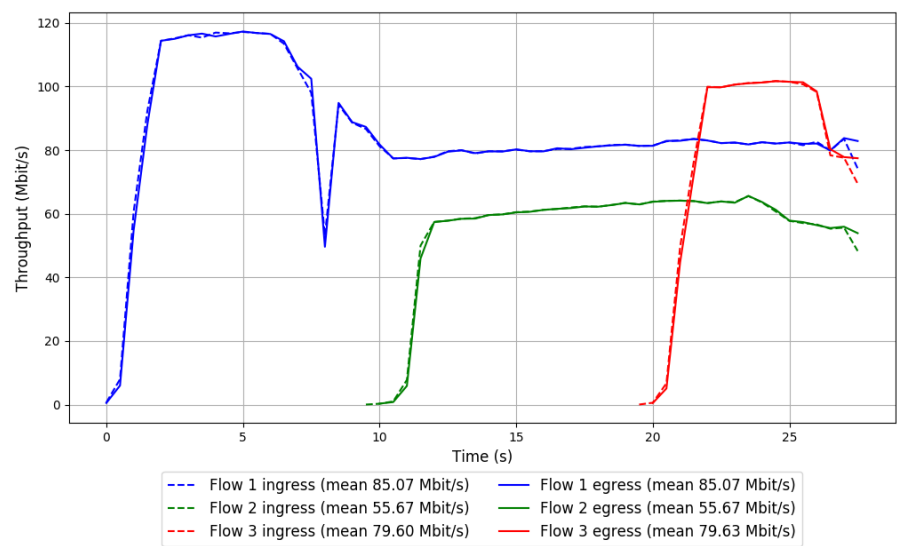
-- Flow 3:

Average throughput: 79.63 Mbit/s

95th percentile per-packet one-way delay: 53.638 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-12-06 07:01:58

End at: 2017-12-06 07:02:28

Below is generated by plot.py at 2017-12-06 09:36:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.65 Mbit/s

95th percentile per-packet one-way delay: 53.681 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.44 Mbit/s

95th percentile per-packet one-way delay: 53.572 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 71.26 Mbit/s

95th percentile per-packet one-way delay: 53.755 ms

Loss rate: 0.00%

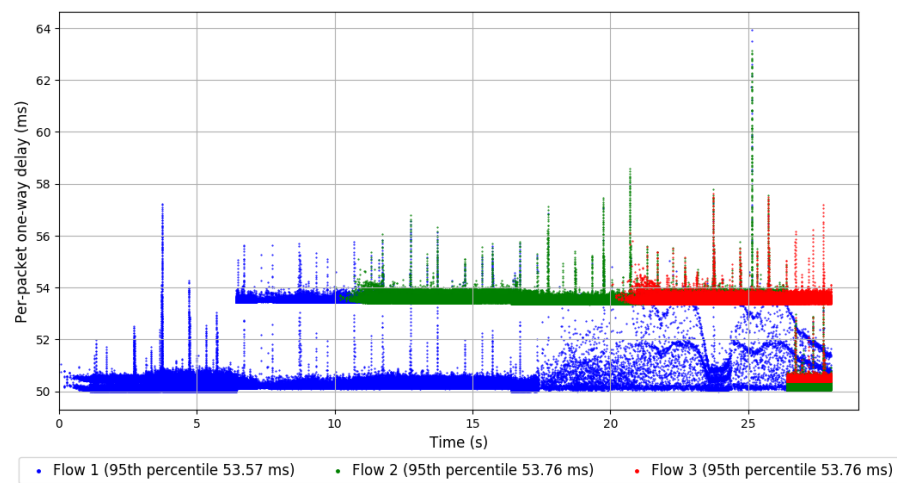
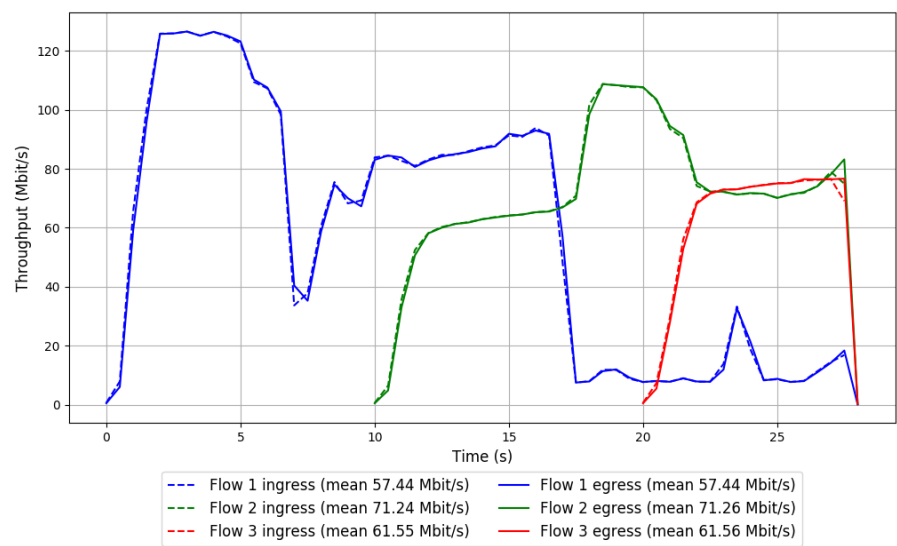
-- Flow 3:

Average throughput: 61.56 Mbit/s

95th percentile per-packet one-way delay: 53.757 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-12-06 07:14:33

End at: 2017-12-06 07:15:03

Below is generated by plot.py at 2017-12-06 09:36:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 139.42 Mbit/s

95th percentile per-packet one-way delay: 53.695 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 88.10 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.51 Mbit/s

95th percentile per-packet one-way delay: 53.892 ms

Loss rate: 0.00%

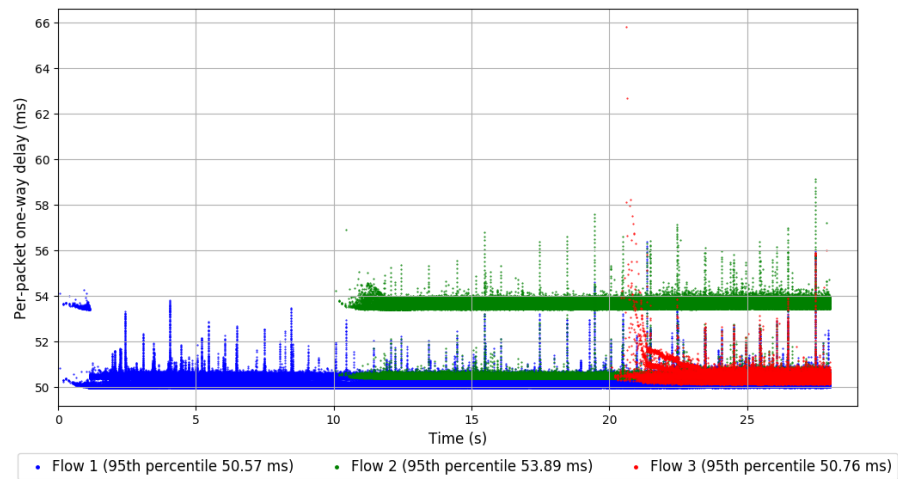
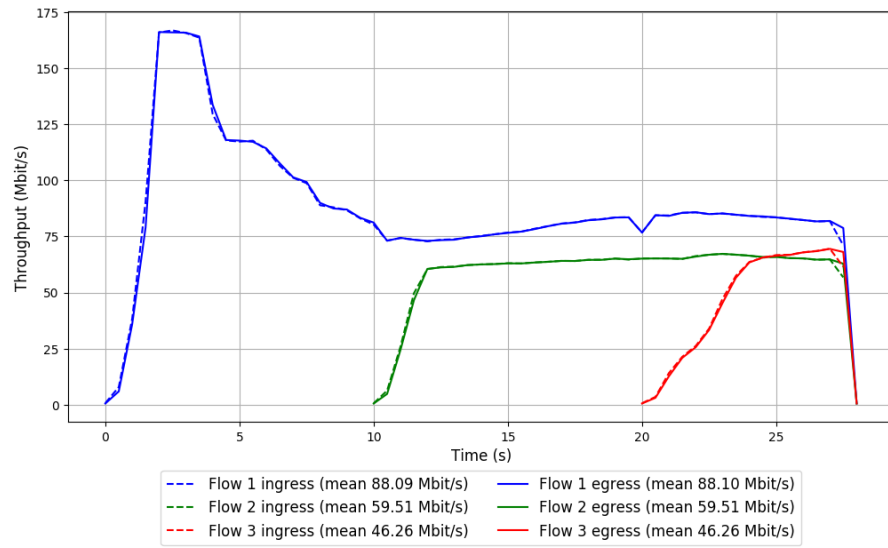
-- Flow 3:

Average throughput: 46.26 Mbit/s

95th percentile per-packet one-way delay: 50.762 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-12-06 07:26:29

End at: 2017-12-06 07:26:59

Below is generated by plot.py at 2017-12-06 09:37:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 149.56 Mbit/s

95th percentile per-packet one-way delay: 53.539 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 74.66 Mbit/s

95th percentile per-packet one-way delay: 53.647 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 76.37 Mbit/s

95th percentile per-packet one-way delay: 53.217 ms

Loss rate: 0.00%

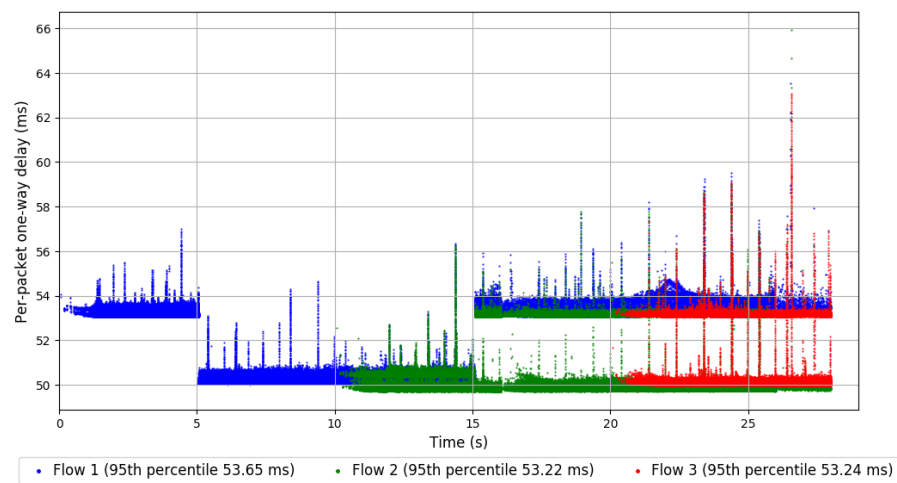
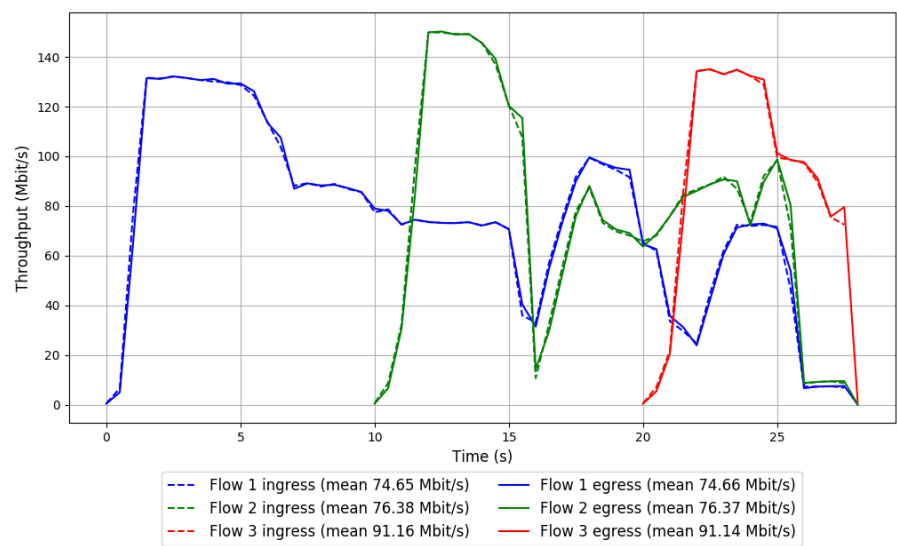
-- Flow 3:

Average throughput: 91.14 Mbit/s

95th percentile per-packet one-way delay: 53.238 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

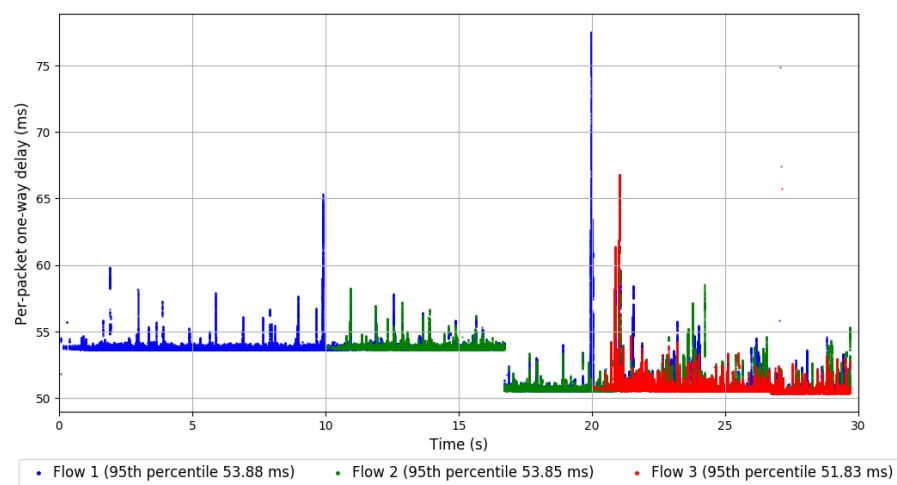
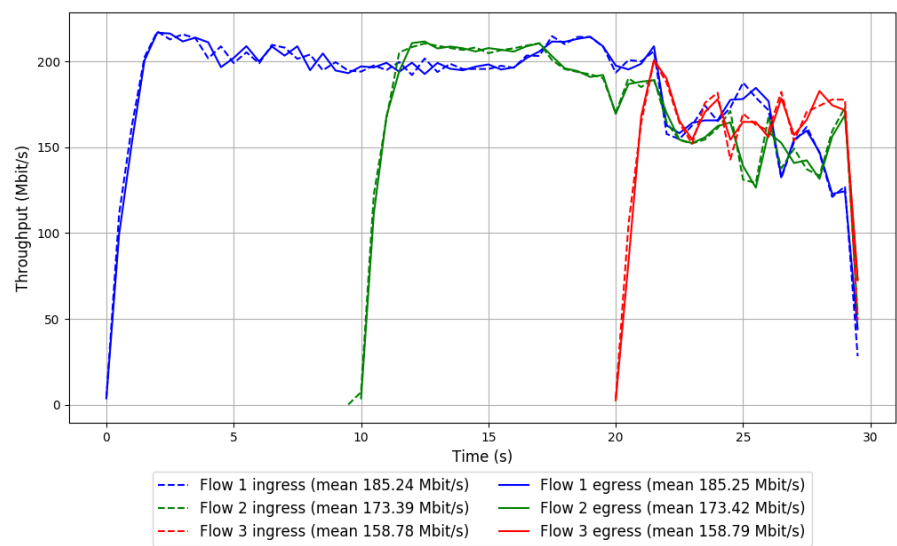


```
Run 1: Statistics of Indigo

Start at: 2017-12-06 05:33:59
End at: 2017-12-06 05:34:29

# Below is generated by plot.py at 2017-12-06 09:39:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 351.94 Mbit/s
95th percentile per-packet one-way delay: 53.857 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 185.25 Mbit/s
95th percentile per-packet one-way delay: 53.885 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 173.42 Mbit/s
95th percentile per-packet one-way delay: 53.853 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 158.79 Mbit/s
95th percentile per-packet one-way delay: 51.828 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo — Data Link

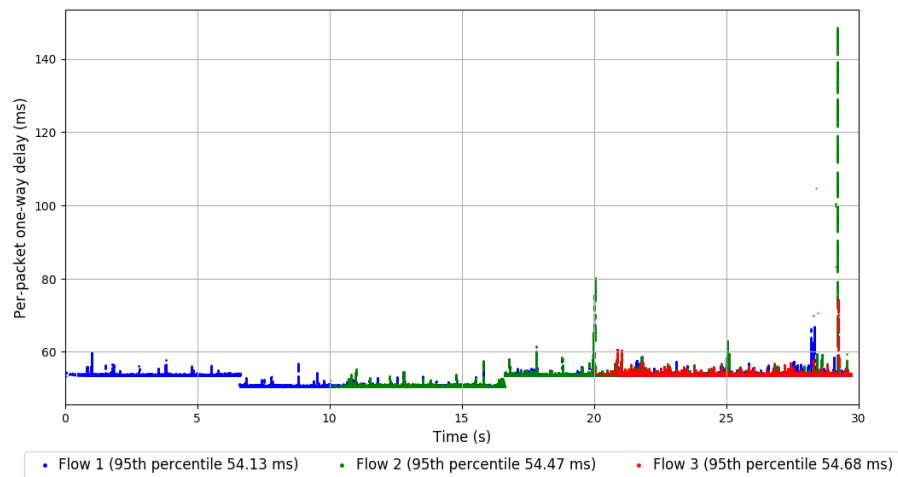
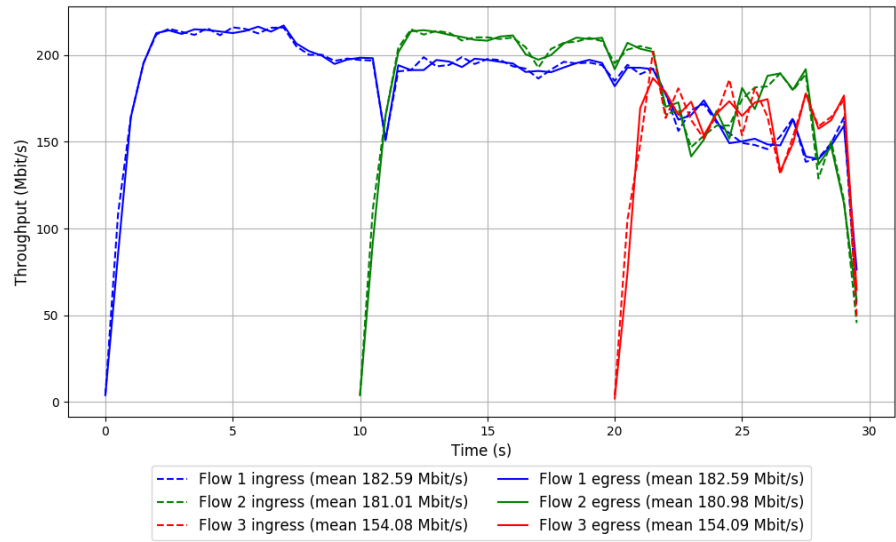


```
Run 2: Statistics of Indigo

Start at: 2017-12-06 05:46:00
End at: 2017-12-06 05:46:30

# Below is generated by plot.py at 2017-12-06 09:39:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 352.69 Mbit/s
95th percentile per-packet one-way delay: 54.362 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 182.59 Mbit/s
95th percentile per-packet one-way delay: 54.135 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 180.98 Mbit/s
95th percentile per-packet one-way delay: 54.467 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 154.09 Mbit/s
95th percentile per-packet one-way delay: 54.680 ms
Loss rate: 0.02%
```

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-12-06 05:58:21

End at: 2017-12-06 05:58:51

Below is generated by plot.py at 2017-12-06 09:40:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 348.78 Mbit/s

95th percentile per-packet one-way delay: 54.373 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 187.12 Mbit/s

95th percentile per-packet one-way delay: 54.095 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 173.94 Mbit/s

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

Loss rate: 0.02%

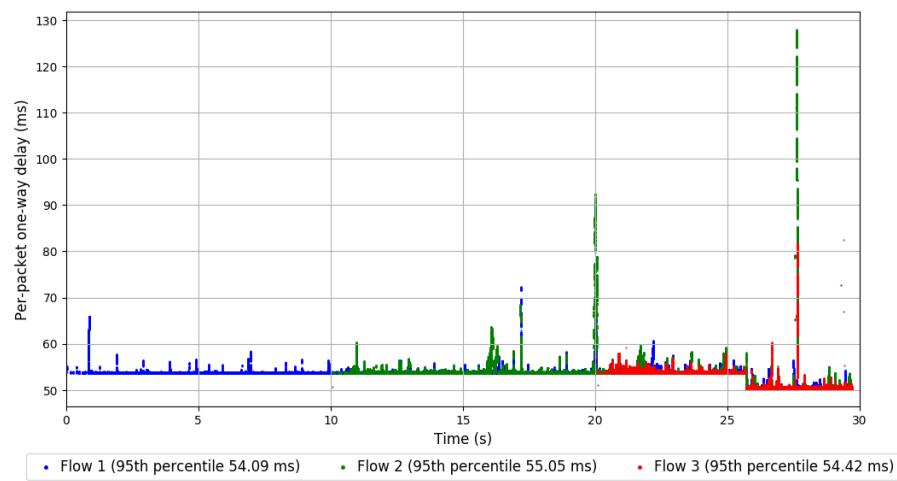
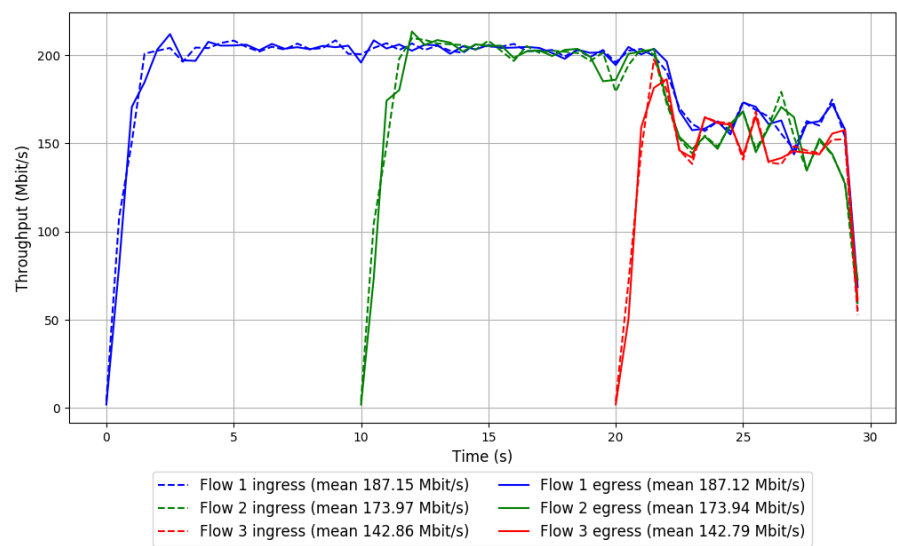
-- Flow 3:

Average throughput: 142.79 Mbit/s

95th percentile per-packet one-way delay: 54.417 ms

Loss rate: 0.05%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-12-06 06:10:46

End at: 2017-12-06 06:11:16

Below is generated by plot.py at 2017-12-06 09:41:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 333.15 Mbit/s

95th percentile per-packet one-way delay: 53.796 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 172.00 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 167.17 Mbit/s

95th percentile per-packet one-way delay: 53.863 ms

Loss rate: 0.00%

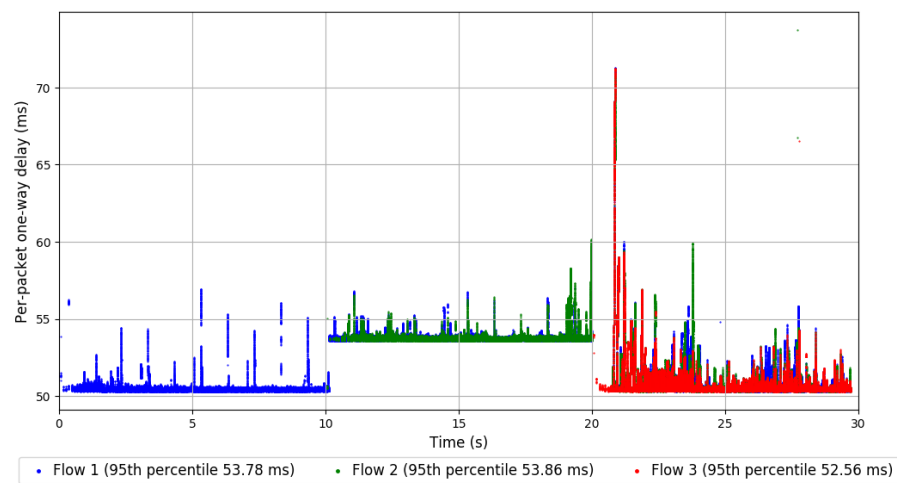
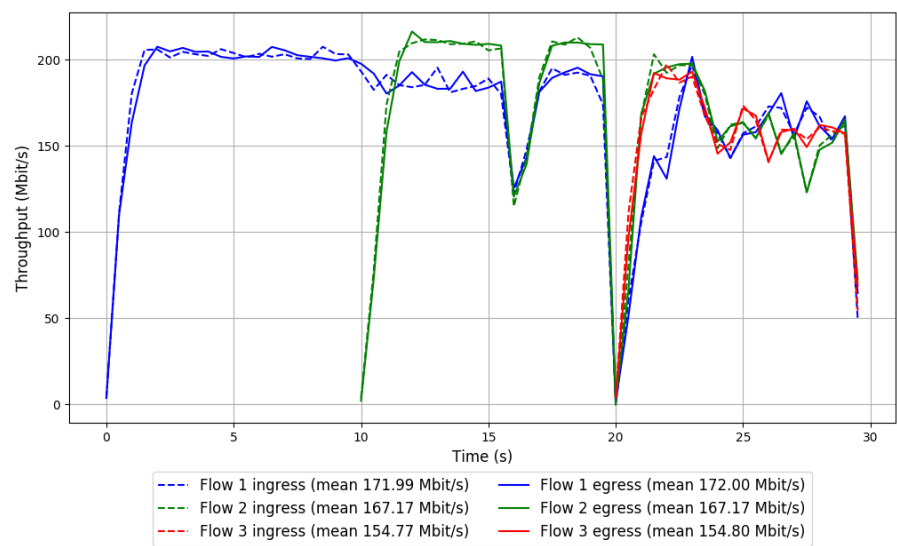
-- Flow 3:

Average throughput: 154.80 Mbit/s

95th percentile per-packet one-way delay: 52.561 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-12-06 06:22:57

End at: 2017-12-06 06:23:27

Below is generated by plot.py at 2017-12-06 09:41:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 351.83 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 183.75 Mbit/s

95th percentile per-packet one-way delay: 51.441 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 177.30 Mbit/s

95th percentile per-packet one-way delay: 53.641 ms

Loss rate: 0.00%

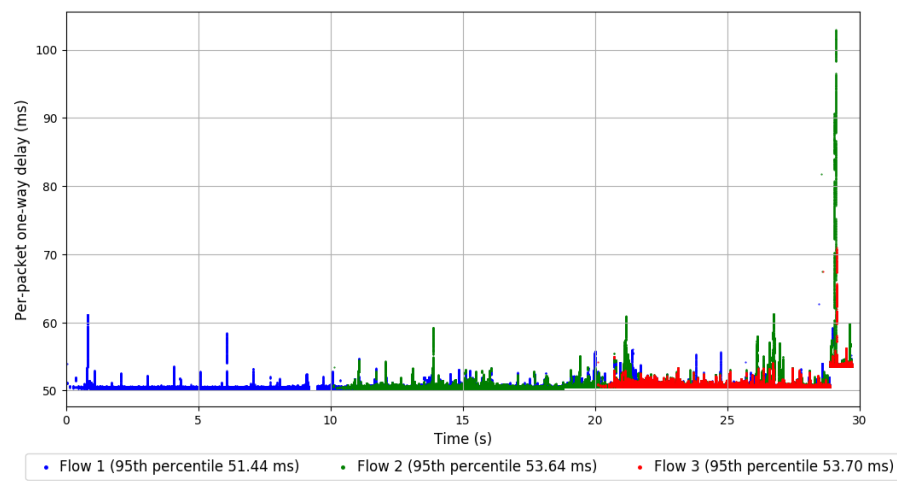
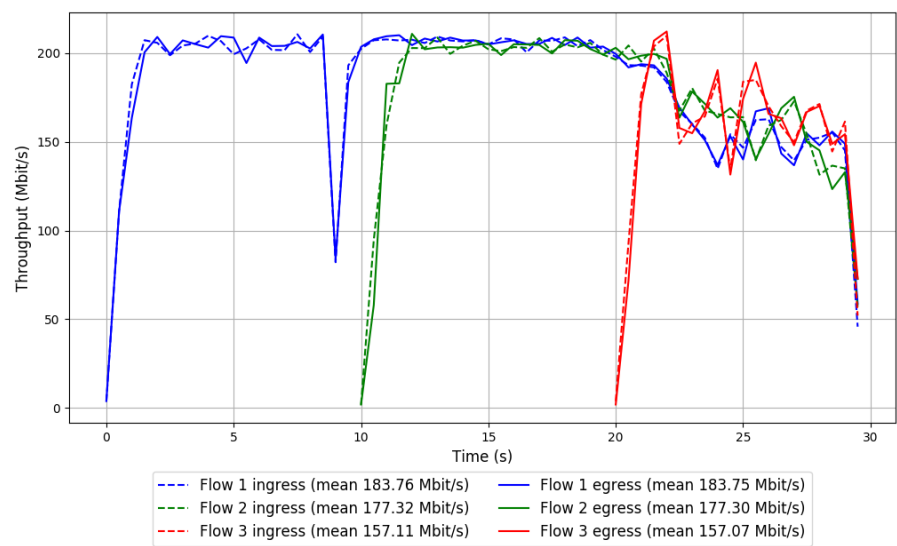
-- Flow 3:

Average throughput: 157.07 Mbit/s

95th percentile per-packet one-way delay: 53.698 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-12-06 06:35:00

End at: 2017-12-06 06:35:30

Below is generated by plot.py at 2017-12-06 09:41:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 331.43 Mbit/s

95th percentile per-packet one-way delay: 53.742 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 182.72 Mbit/s

95th percentile per-packet one-way delay: 53.737 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 163.58 Mbit/s

95th percentile per-packet one-way delay: 53.737 ms

Loss rate: 0.02%

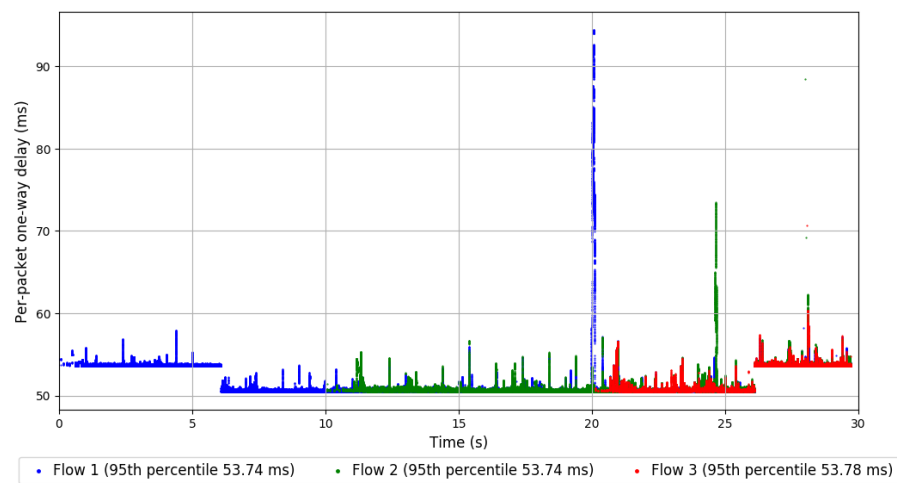
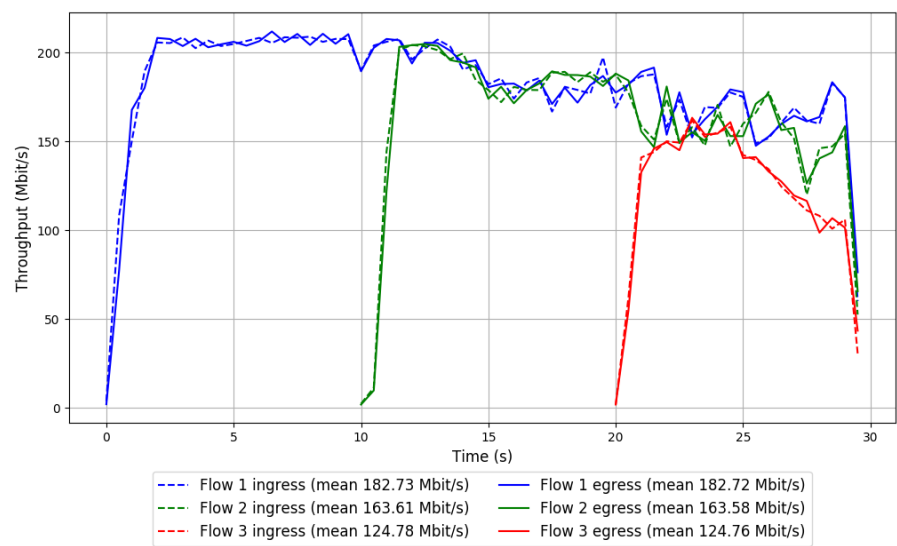
-- Flow 3:

Average throughput: 124.76 Mbit/s

95th percentile per-packet one-way delay: 53.785 ms

Loss rate: 0.01%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-12-06 06:47:17

End at: 2017-12-06 06:47:47

Below is generated by plot.py at 2017-12-06 09:42:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 352.80 Mbit/s

95th percentile per-packet one-way delay: 53.737 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 182.60 Mbit/s

95th percentile per-packet one-way delay: 53.709 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 180.70 Mbit/s

95th percentile per-packet one-way delay: 53.995 ms

Loss rate: 0.05%

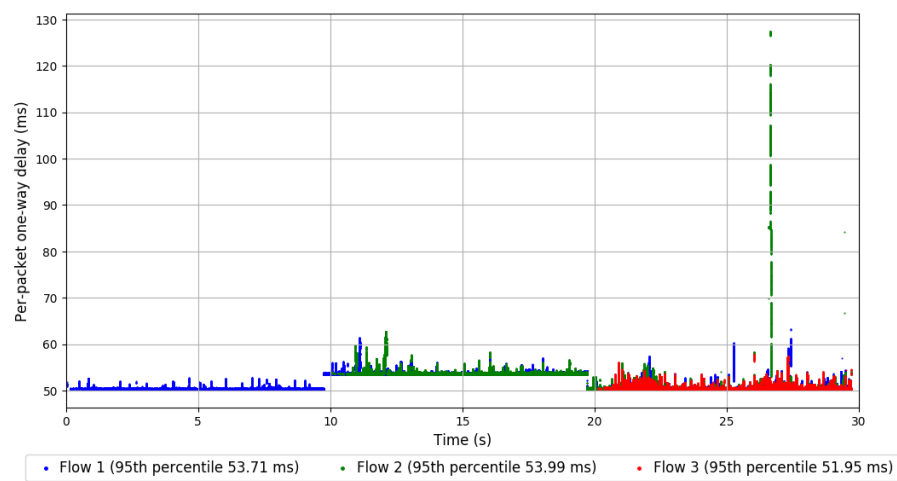
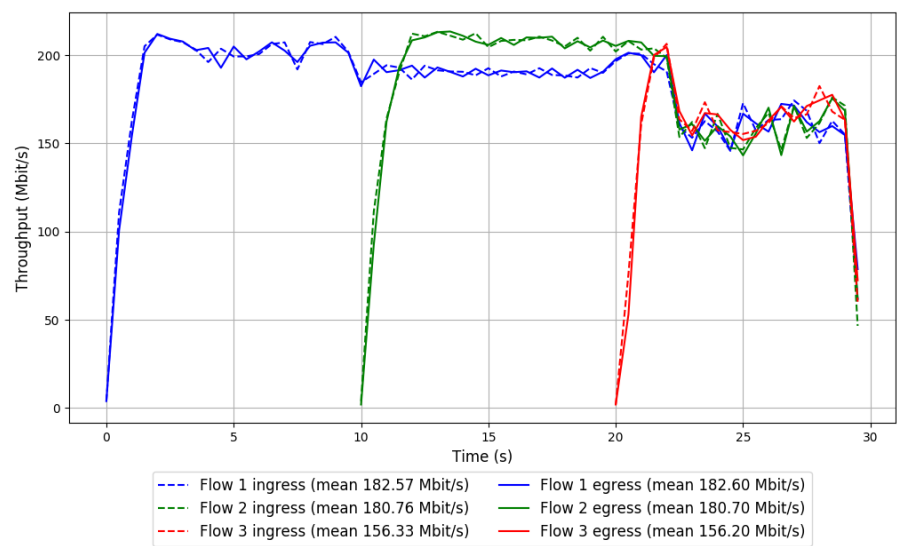
-- Flow 3:

Average throughput: 156.20 Mbit/s

95th percentile per-packet one-way delay: 51.948 ms

Loss rate: 0.07%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-12-06 06:59:17

End at: 2017-12-06 06:59:47

Below is generated by plot.py at 2017-12-06 09:43:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 338.33 Mbit/s

95th percentile per-packet one-way delay: 53.568 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 182.22 Mbit/s

95th percentile per-packet one-way delay: 53.597 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 165.54 Mbit/s

95th percentile per-packet one-way delay: 51.475 ms

Loss rate: 0.00%

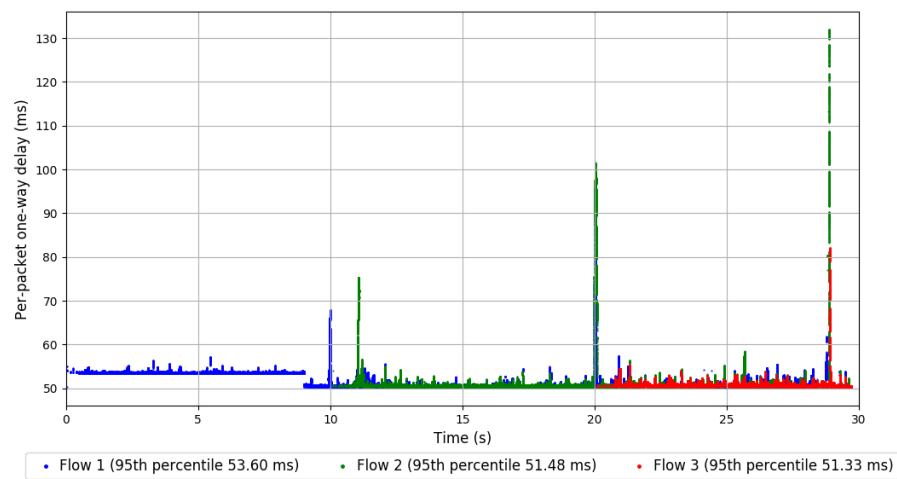
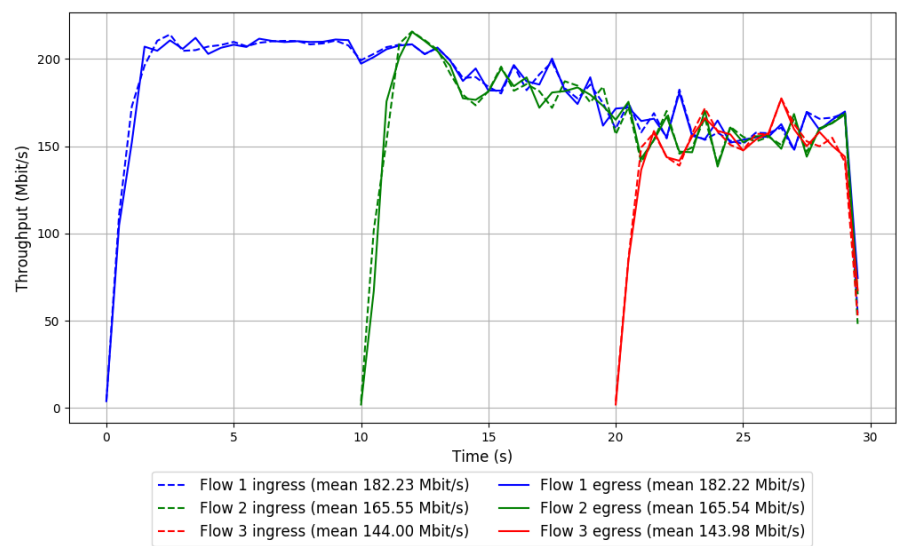
-- Flow 3:

Average throughput: 143.98 Mbit/s

95th percentile per-packet one-way delay: 51.334 ms

Loss rate: 0.01%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-12-06 07:11:46

End at: 2017-12-06 07:12:16

Below is generated by plot.py at 2017-12-06 09:45:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 350.22 Mbit/s

95th percentile per-packet one-way delay: 54.313 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 185.60 Mbit/s

95th percentile per-packet one-way delay: 54.051 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 171.31 Mbit/s

95th percentile per-packet one-way delay: 54.643 ms

Loss rate: 0.01%

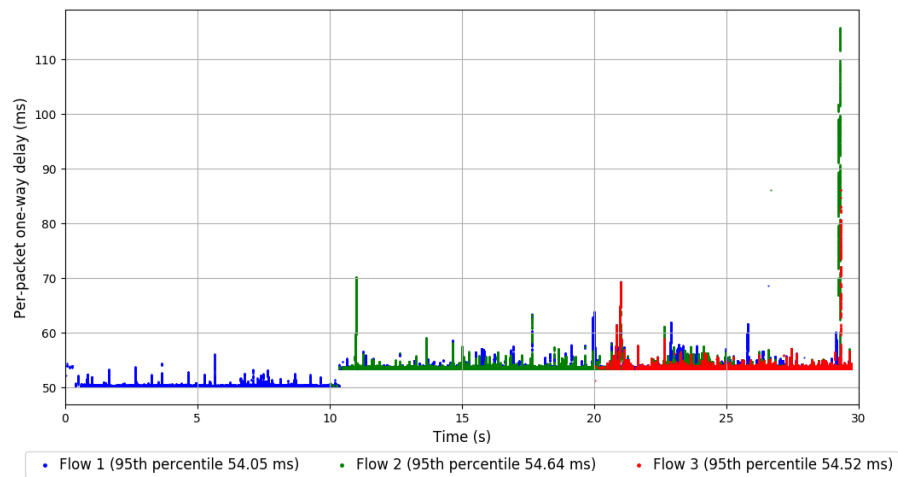
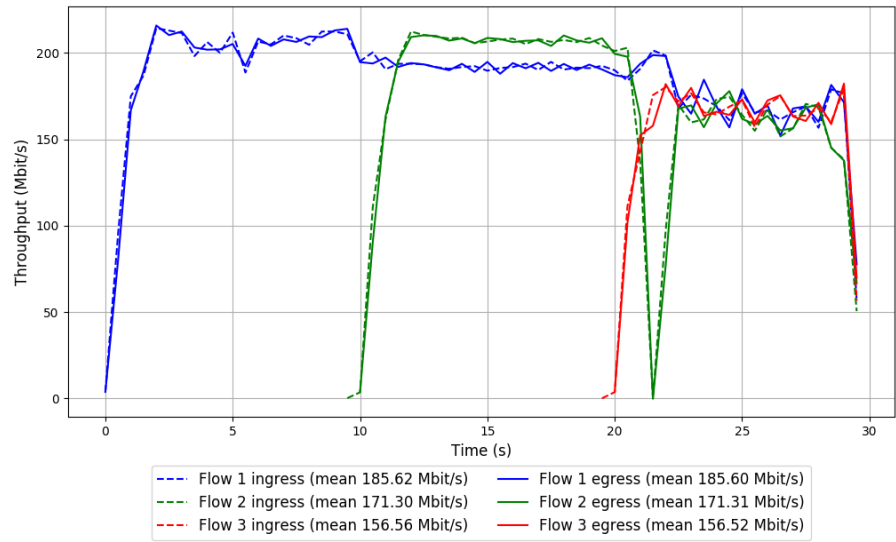
-- Flow 3:

Average throughput: 156.52 Mbit/s

95th percentile per-packet one-way delay: 54.516 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-12-06 07:23:48

End at: 2017-12-06 07:24:18

Below is generated by plot.py at 2017-12-06 09:45:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 344.93 Mbit/s

95th percentile per-packet one-way delay: 54.283 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 179.40 Mbit/s

95th percentile per-packet one-way delay: 53.894 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 170.19 Mbit/s

95th percentile per-packet one-way delay: 54.200 ms

Loss rate: 0.00%

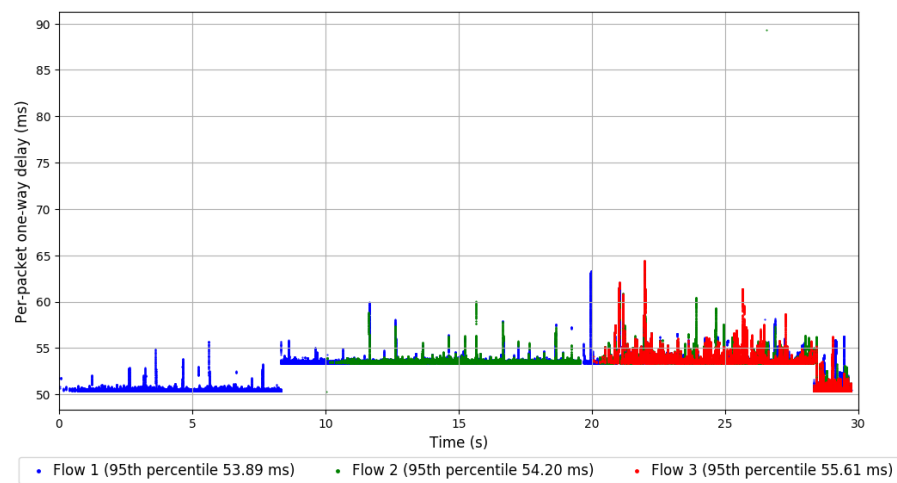
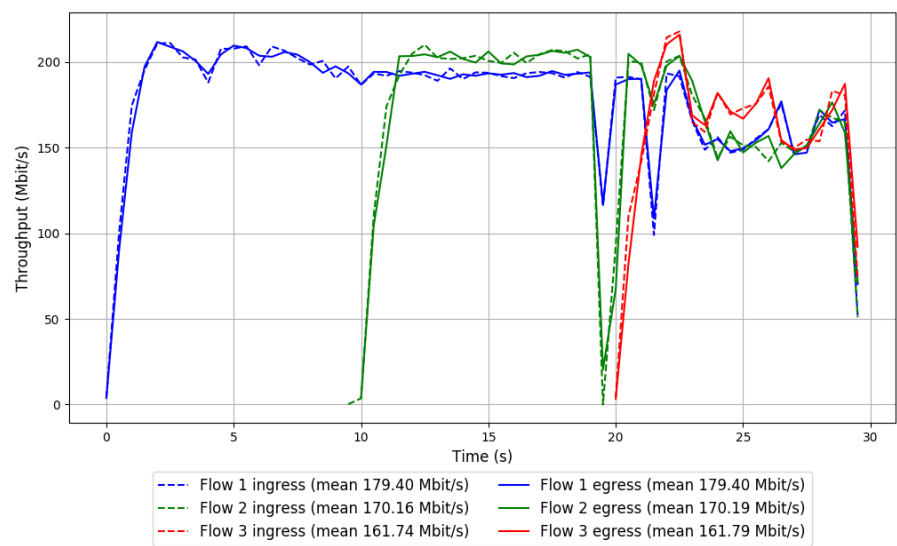
-- Flow 3:

Average throughput: 161.79 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

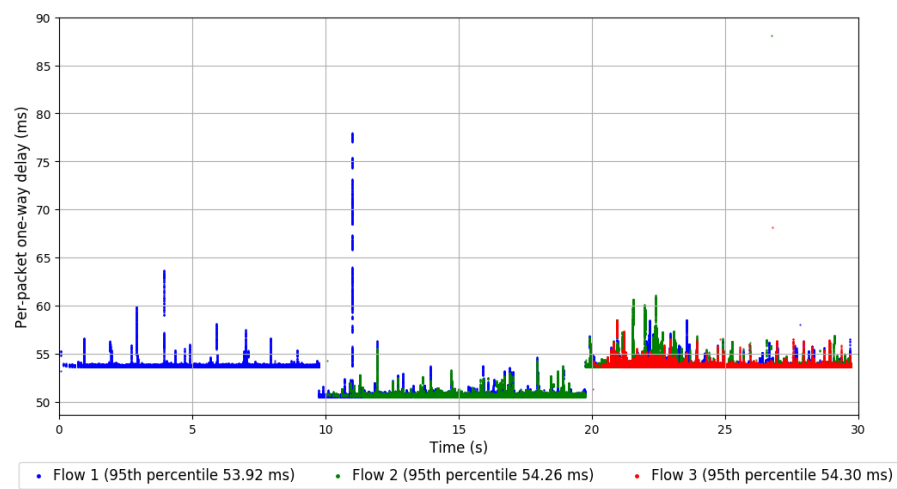
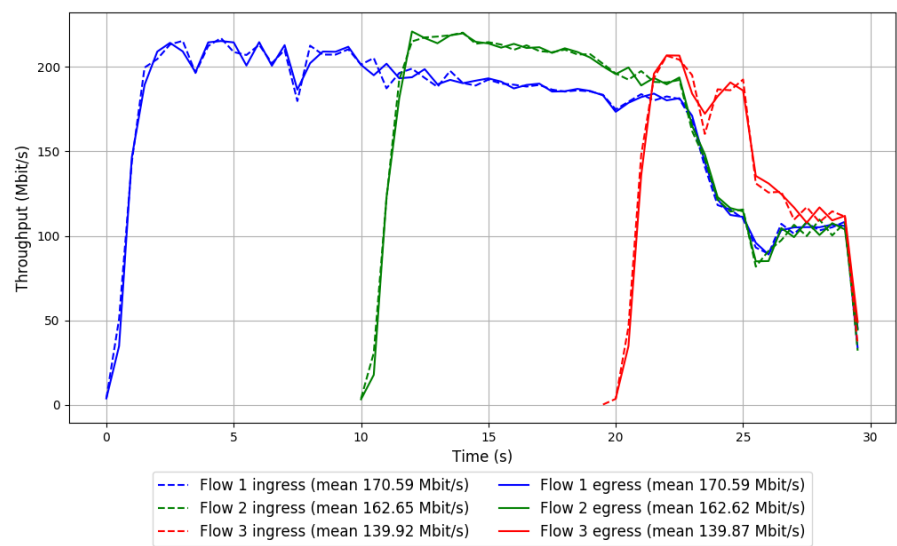


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-06 05:32:16
End at: 2017-12-06 05:32:46

# Below is generated by plot.py at 2017-12-06 09:45:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 323.85 Mbit/s
95th percentile per-packet one-way delay: 54.111 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 170.59 Mbit/s
95th percentile per-packet one-way delay: 53.922 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 162.62 Mbit/s
95th percentile per-packet one-way delay: 54.257 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 139.87 Mbit/s
95th percentile per-packet one-way delay: 54.302 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-calib — Data Link

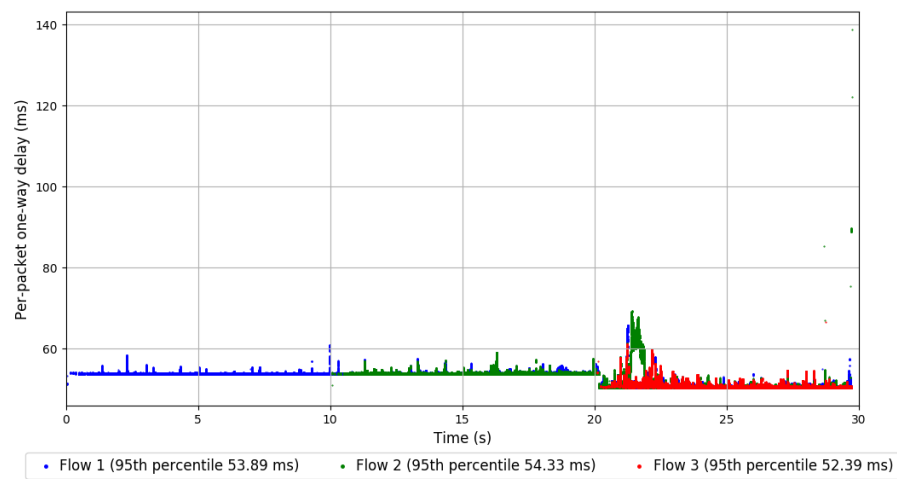
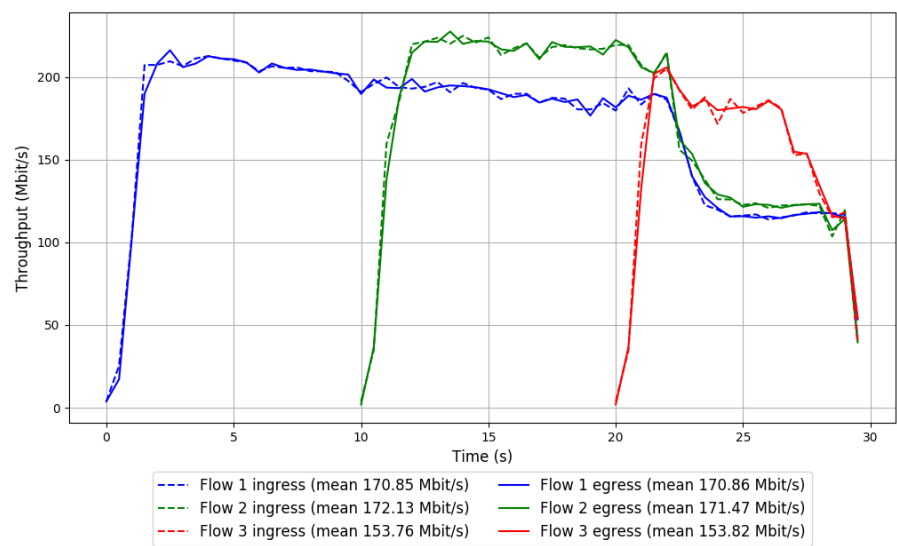


```
Run 2: Statistics of Indigo-calib

Start at: 2017-12-06 05:44:16
End at: 2017-12-06 05:44:46

# Below is generated by plot.py at 2017-12-06 09:46:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 334.09 Mbit/s
95th percentile per-packet one-way delay: 53.950 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 170.86 Mbit/s
95th percentile per-packet one-way delay: 53.887 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 171.47 Mbit/s
95th percentile per-packet one-way delay: 54.326 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 153.82 Mbit/s
95th percentile per-packet one-way delay: 52.389 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-calib — Data Link

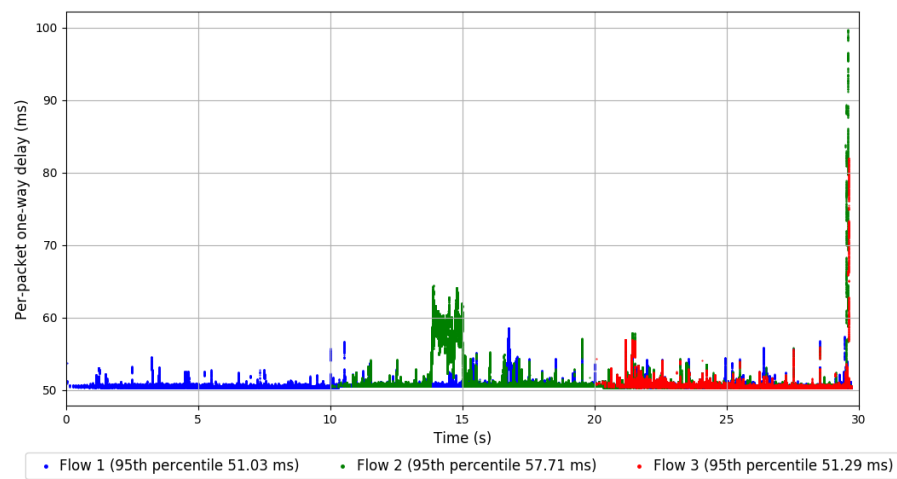
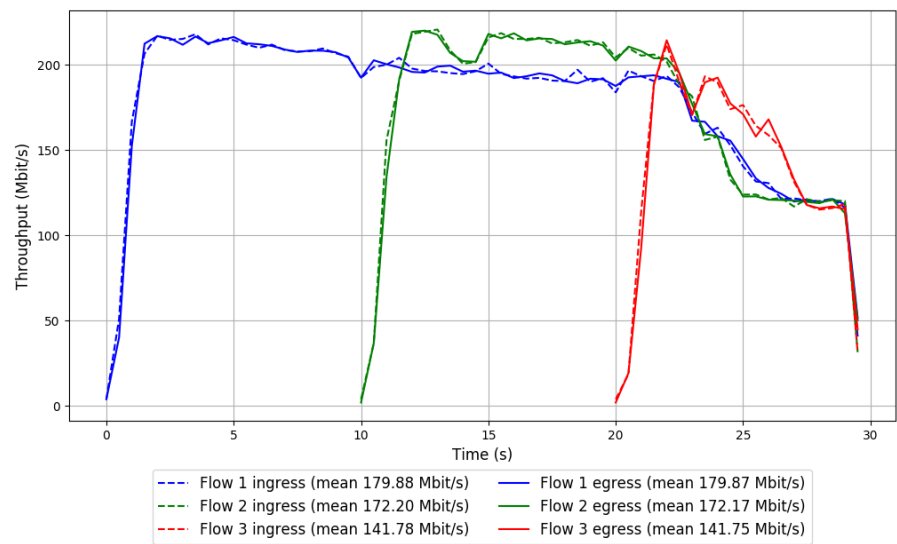


```
Run 3: Statistics of Indigo-calib

Start at: 2017-12-06 05:56:36
End at: 2017-12-06 05:57:06

# Below is generated by plot.py at 2017-12-06 09:47:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 339.92 Mbit/s
95th percentile per-packet one-way delay: 52.012 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 179.87 Mbit/s
95th percentile per-packet one-way delay: 51.028 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 172.17 Mbit/s
95th percentile per-packet one-way delay: 57.714 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 141.75 Mbit/s
95th percentile per-packet one-way delay: 51.293 ms
Loss rate: 0.03%
```


Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-12-06 06:09:03

End at: 2017-12-06 06:09:33

Below is generated by plot.py at 2017-12-06 09:47:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 327.09 Mbit/s

95th percentile per-packet one-way delay: 53.752 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 178.58 Mbit/s

95th percentile per-packet one-way delay: 53.731 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 163.11 Mbit/s

95th percentile per-packet one-way delay: 53.791 ms

Loss rate: 0.00%

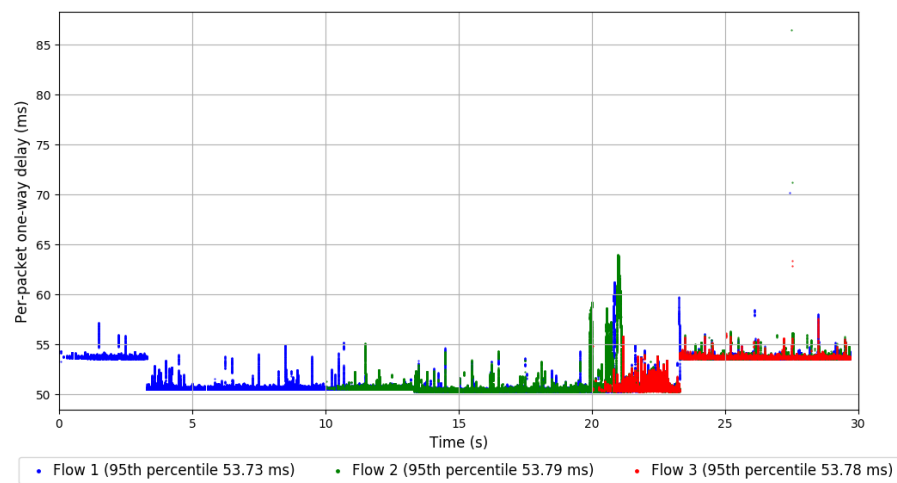
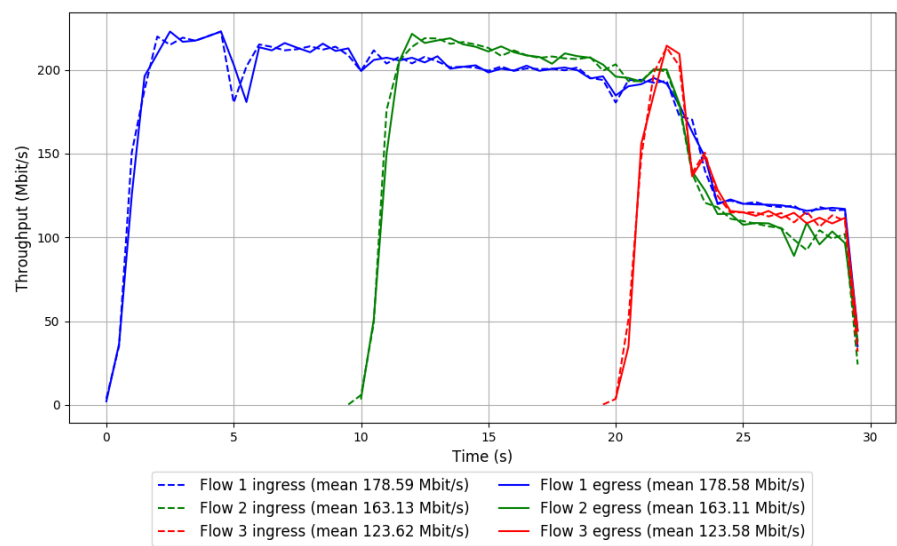
-- Flow 3:

Average throughput: 123.58 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-12-06 06:21:15

End at: 2017-12-06 06:21:45

Below is generated by plot.py at 2017-12-06 09:47:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 315.55 Mbit/s

95th percentile per-packet one-way delay: 53.896 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 154.71 Mbit/s

95th percentile per-packet one-way delay: 53.860 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 160.20 Mbit/s

95th percentile per-packet one-way delay: 53.856 ms

Loss rate: 0.01%

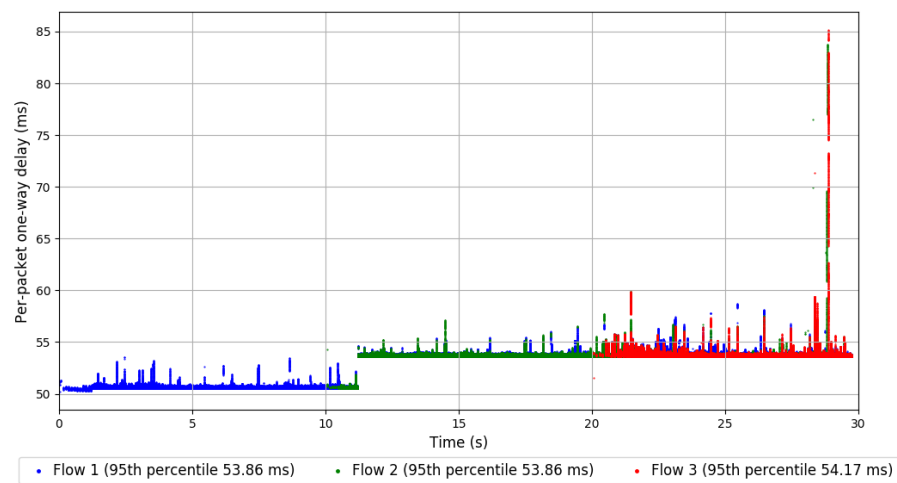
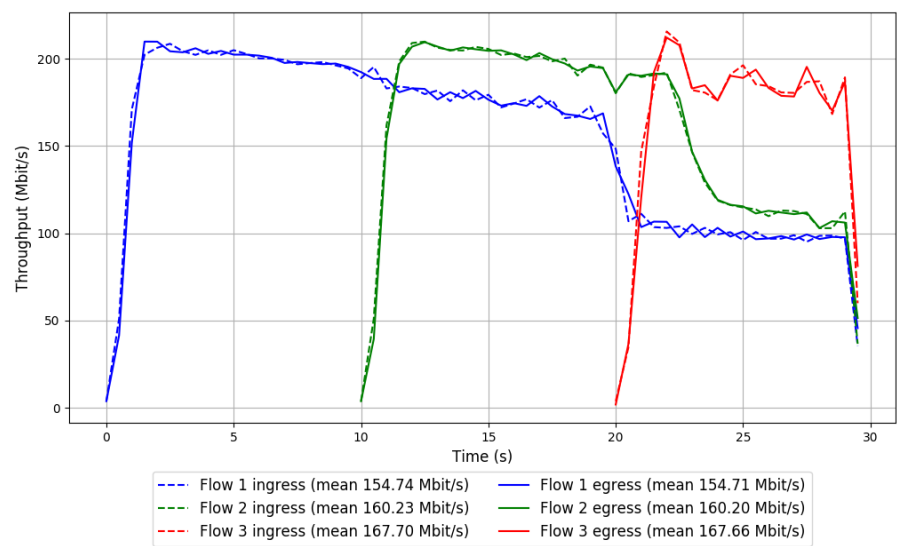
-- Flow 3:

Average throughput: 167.66 Mbit/s

95th percentile per-packet one-way delay: 54.170 ms

Loss rate: 0.00%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-12-06 06:33:16

End at: 2017-12-06 06:33:46

Below is generated by plot.py at 2017-12-06 09:48:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 342.36 Mbit/s

95th percentile per-packet one-way delay: 53.711 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 175.29 Mbit/s

95th percentile per-packet one-way delay: 53.739 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 169.59 Mbit/s

95th percentile per-packet one-way delay: 51.308 ms

Loss rate: 0.01%

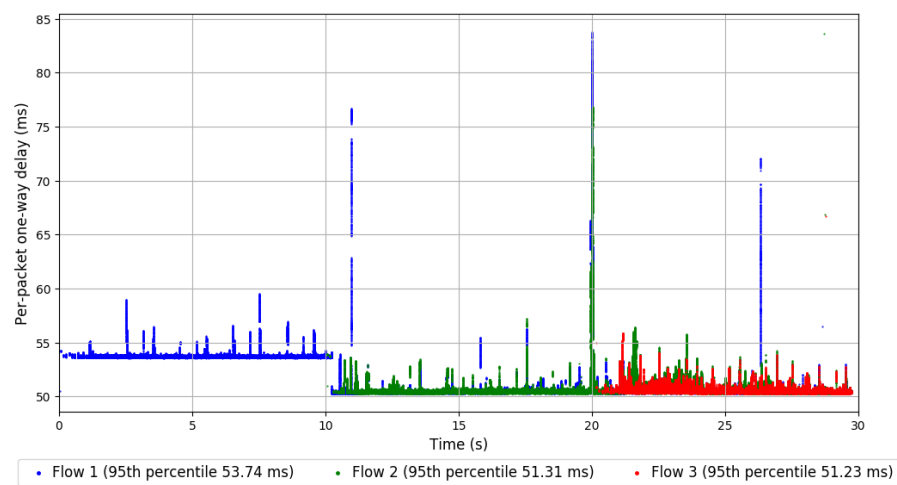
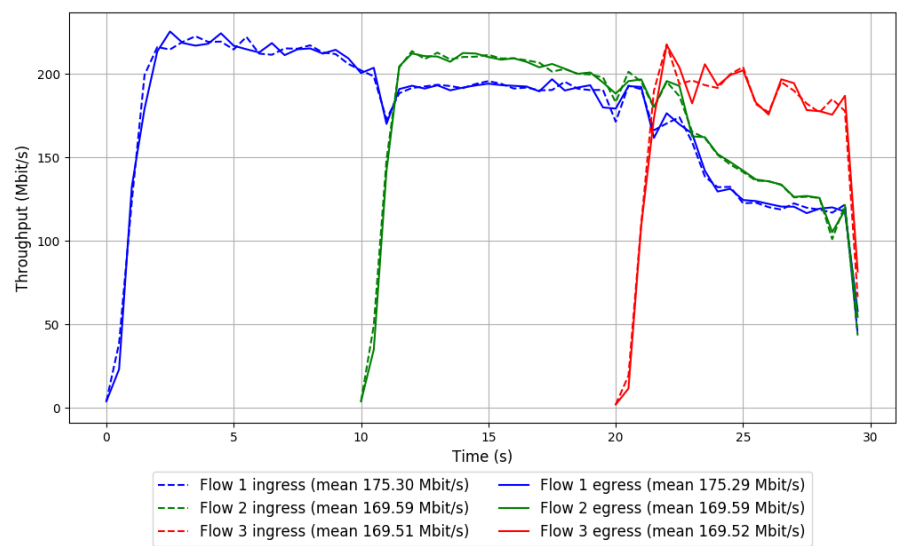
-- Flow 3:

Average throughput: 169.52 Mbit/s

95th percentile per-packet one-way delay: 51.231 ms

Loss rate: 0.01%

Run 6: Report of Indigo-calib — Data Link

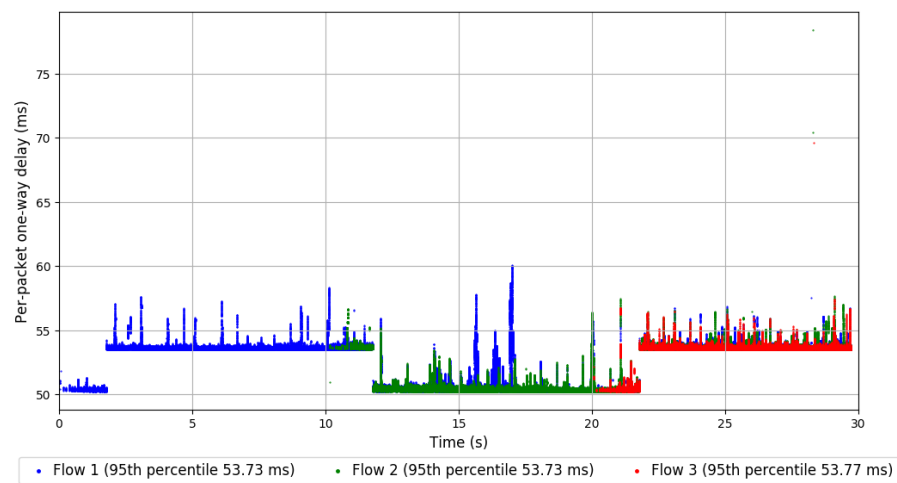
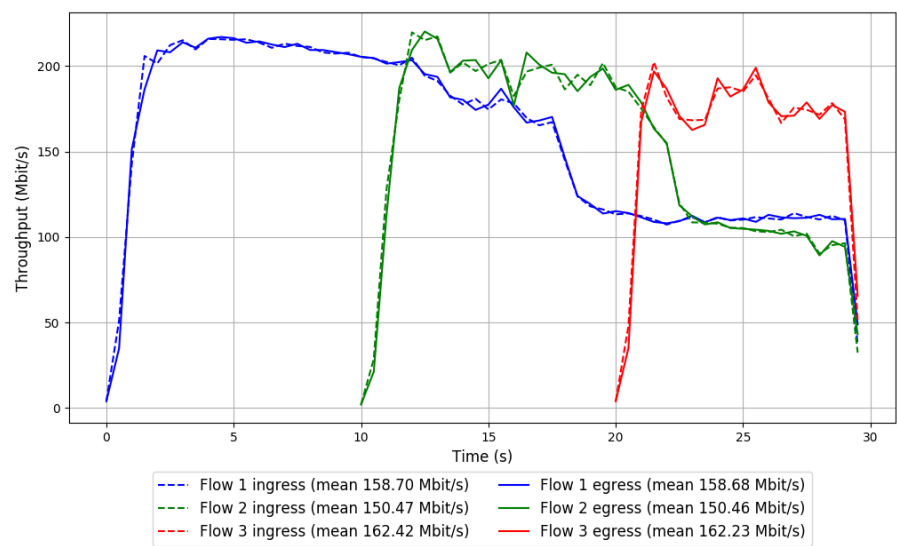


```
Run 7: Statistics of Indigo-calib

Start at: 2017-12-06 06:45:34
End at: 2017-12-06 06:46:04

# Below is generated by plot.py at 2017-12-06 09:48:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 310.73 Mbit/s
95th percentile per-packet one-way delay: 53.742 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 158.68 Mbit/s
95th percentile per-packet one-way delay: 53.734 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 150.46 Mbit/s
95th percentile per-packet one-way delay: 53.734 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 162.23 Mbit/s
95th percentile per-packet one-way delay: 53.771 ms
Loss rate: 0.12%
```


Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-12-06 06:57:34

End at: 2017-12-06 06:58:04

Below is generated by plot.py at 2017-12-06 09:48:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 312.96 Mbit/s

95th percentile per-packet one-way delay: 50.864 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 168.53 Mbit/s

95th percentile per-packet one-way delay: 52.456 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 160.43 Mbit/s

95th percentile per-packet one-way delay: 50.646 ms

Loss rate: 0.01%

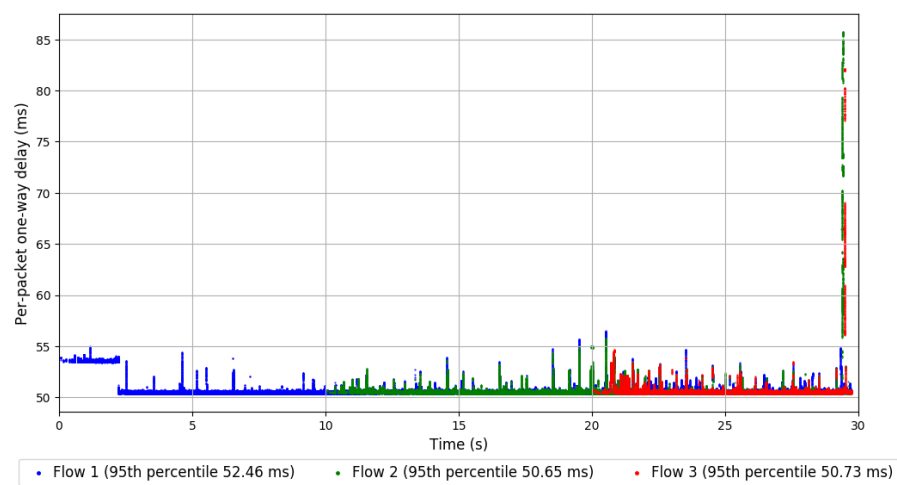
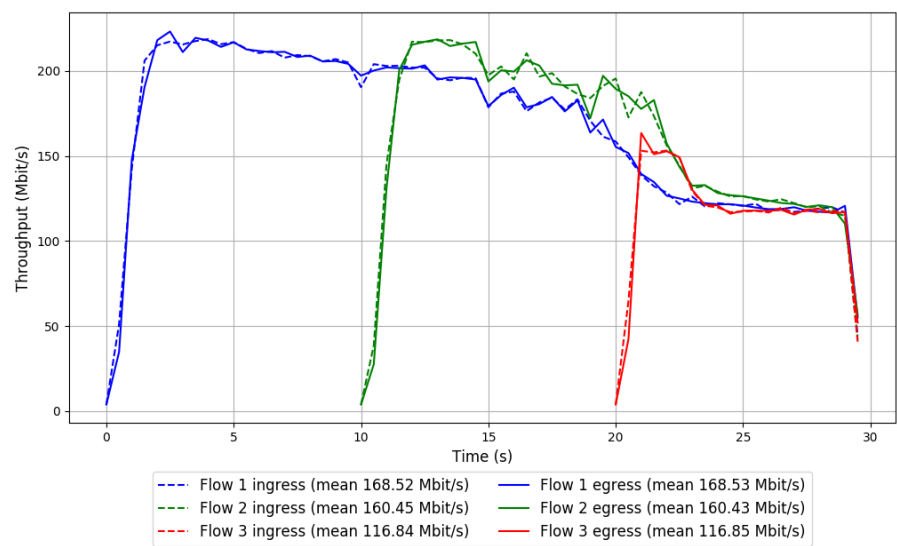
-- Flow 3:

Average throughput: 116.85 Mbit/s

95th percentile per-packet one-way delay: 50.729 ms

Loss rate: 0.00%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-12-06 07:10:03

End at: 2017-12-06 07:10:33

Below is generated by plot.py at 2017-12-06 09:48:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 330.98 Mbit/s

95th percentile per-packet one-way delay: 53.452 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 181.00 Mbit/s

95th percentile per-packet one-way delay: 53.488 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 163.86 Mbit/s

95th percentile per-packet one-way delay: 50.951 ms

Loss rate: 0.00%

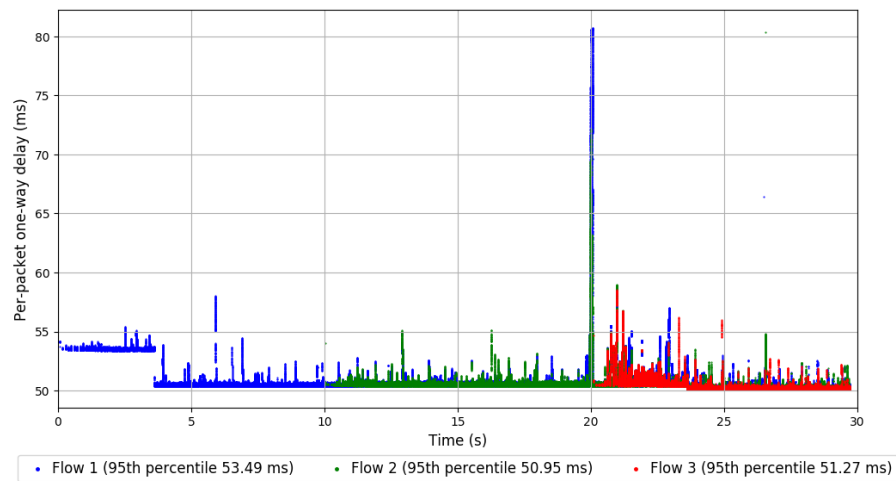
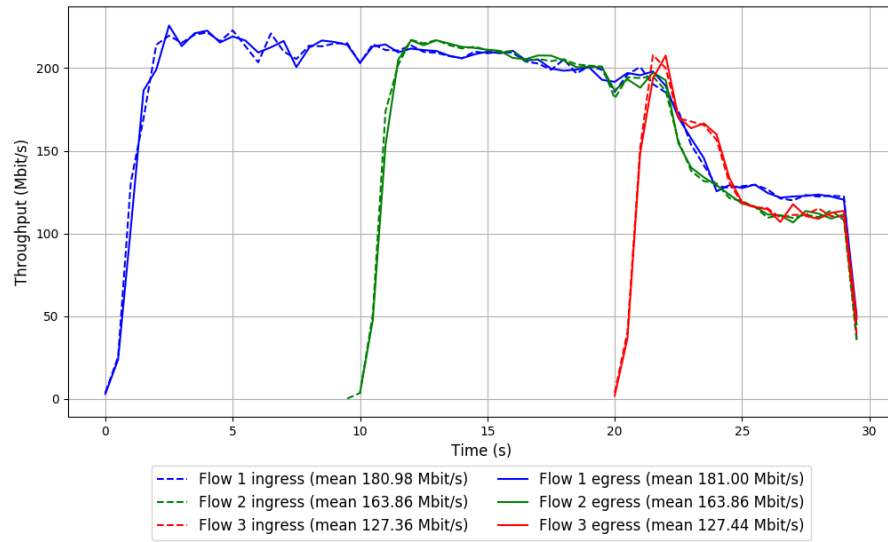
-- Flow 3:

Average throughput: 127.44 Mbit/s

95th percentile per-packet one-way delay: 51.266 ms

Loss rate: 0.01%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-06 07:22:04

End at: 2017-12-06 07:22:34

Below is generated by plot.py at 2017-12-06 09:49:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 346.45 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 180.29 Mbit/s

95th percentile per-packet one-way delay: 53.579 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 169.06 Mbit/s

95th percentile per-packet one-way delay: 53.525 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 167.95 Mbit/s

95th percentile per-packet one-way delay: 51.239 ms

Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

