

Pantheon Report

Generated at 2017-12-06 16:10:04 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

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

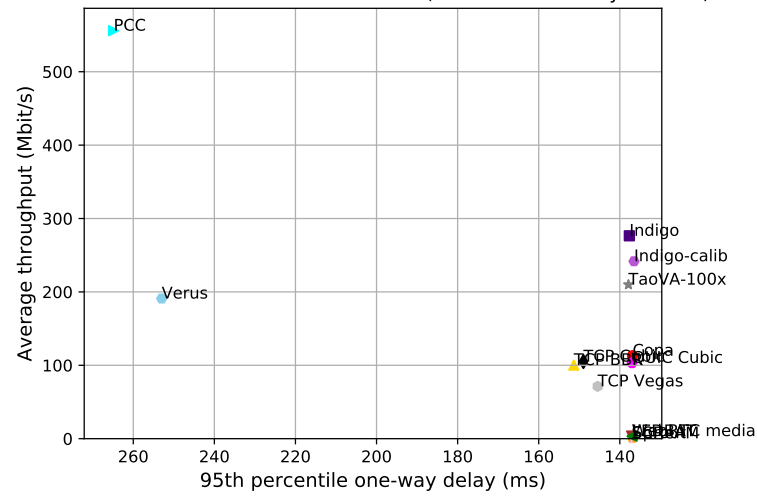
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

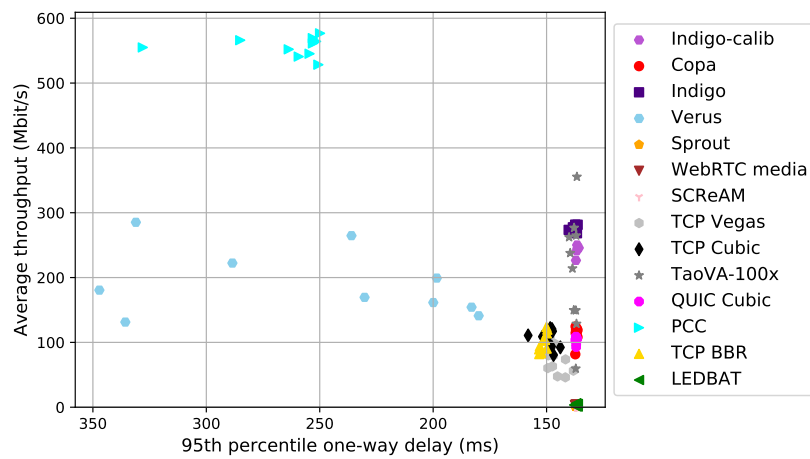
Git summary:

```
branch: indigos @ 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 @ f1a14bffe749737437f61b1eae30b267cde681
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 London Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



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



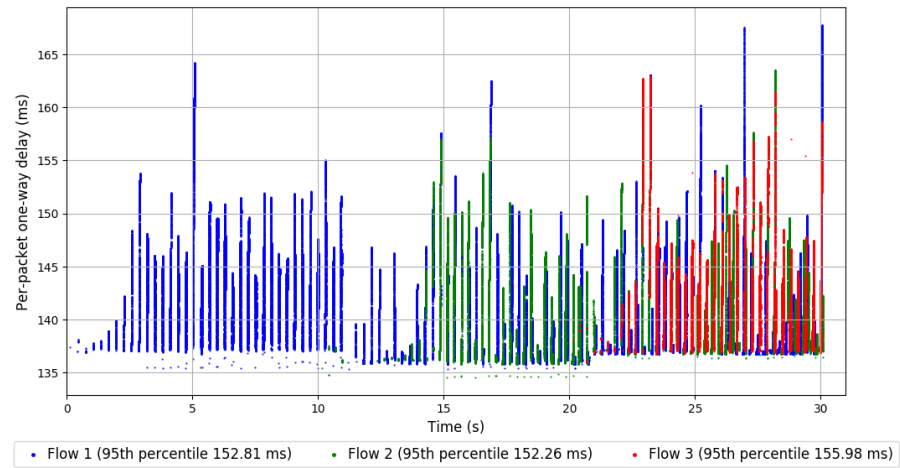
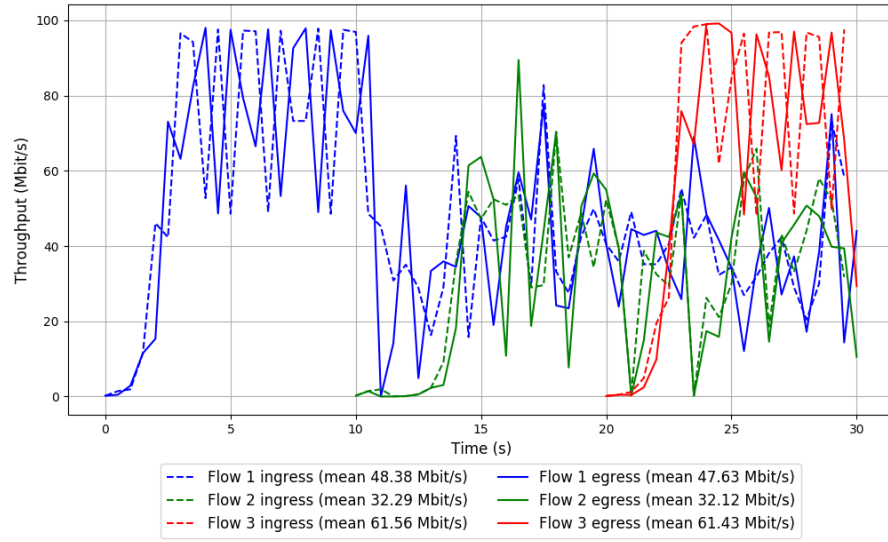
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	46.88	53.95	53.85	150.73	151.08	152.74	0.19	0.07	0.00
TCP Cubic	10	45.75	60.59	57.77	147.19	148.99	150.24	0.06	0.00	0.11
LEDBAT	10	2.03	1.52	0.85	268.51	136.90	136.75	0.11	0.18	0.00
PCC	10	475.50	110.71	20.71	268.86	250.00	246.50	3.08	2.88	3.02
QUIC Cubic	8	53.69	53.12	44.89	136.89	136.58	136.52	0.00	0.00	0.00
SCReAM	10	0.22	0.22	0.22	136.86	136.96	136.32	0.03	0.00	0.00
WebRTC media	10	2.00	1.20	0.38	136.78	136.25	136.76	0.02	0.01	0.02
Sprout	10	0.43	0.44	0.48	136.81	136.74	136.44	0.00	0.00	0.00
TaoVA-100x	10	113.57	111.46	87.91	137.80	137.35	137.74	0.00	0.00	0.00
TCP Vegas	10	22.61	48.83	49.39	142.39	145.09	145.05	0.13	0.01	0.00
Verus	10	121.97	78.73	53.10	225.53	274.23	284.35	1.99	4.25	4.99
Copa	10	68.64	51.16	40.67	136.78	136.81	136.59	0.03	0.03	0.00
Indigo	10	149.65	137.34	113.13	137.12	138.43	139.83	0.03	0.05	0.00
Indigo-calib	5	128.20	121.62	103.82	136.25	136.45	137.47	0.00	0.00	0.00

```
Run 1: Statistics of TCP BBR

Start at: 2017-12-06 12:28:56
End at: 2017-12-06 12:29:26

# Below is generated by plot.py at 2017-12-06 15:23:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.30 Mbit/s
95th percentile per-packet one-way delay: 153.267 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 47.63 Mbit/s
95th percentile per-packet one-way delay: 152.815 ms
Loss rate: 1.45%
-- Flow 2:
Average throughput: 32.12 Mbit/s
95th percentile per-packet one-way delay: 152.258 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 61.43 Mbit/s
95th percentile per-packet one-way delay: 155.979 ms
Loss rate: 0.01%
```


Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-12-06 12:43:03

End at: 2017-12-06 12:43:33

Below is generated by plot.py at 2017-12-06 15:23:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.96 Mbit/s

95th percentile per-packet one-way delay: 153.232 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 42.24 Mbit/s

95th percentile per-packet one-way delay: 152.370 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 43.72 Mbit/s

95th percentile per-packet one-way delay: 154.897 ms

Loss rate: 0.19%

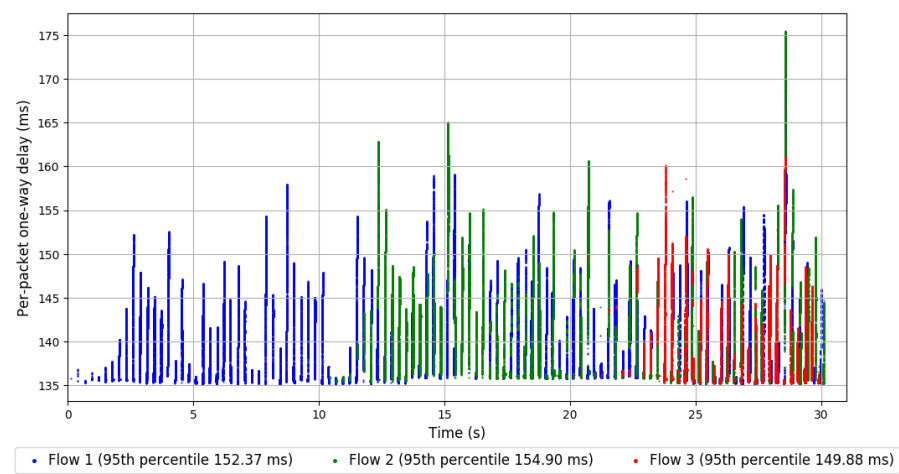
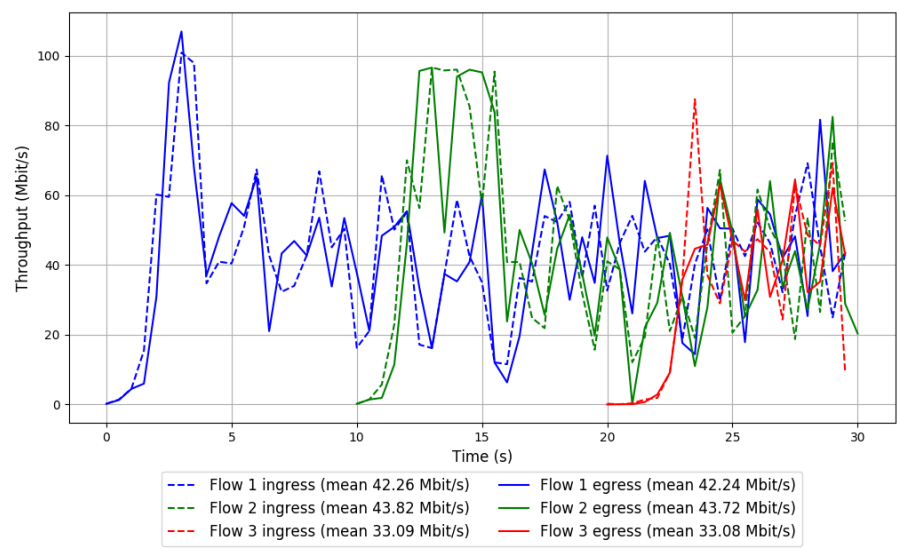
-- Flow 3:

Average throughput: 33.08 Mbit/s

95th percentile per-packet one-way delay: 149.880 ms

Loss rate: 0.03%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-12-06 12:57:09

End at: 2017-12-06 12:57:39

Below is generated by plot.py at 2017-12-06 15:23:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.90 Mbit/s

95th percentile per-packet one-way delay: 152.975 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 47.80 Mbit/s

95th percentile per-packet one-way delay: 150.527 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 41.92 Mbit/s

95th percentile per-packet one-way delay: 153.781 ms

Loss rate: 0.00%

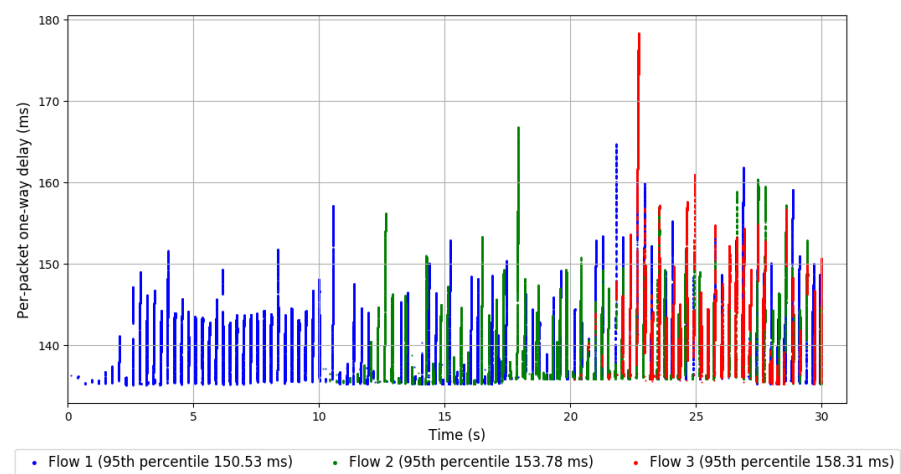
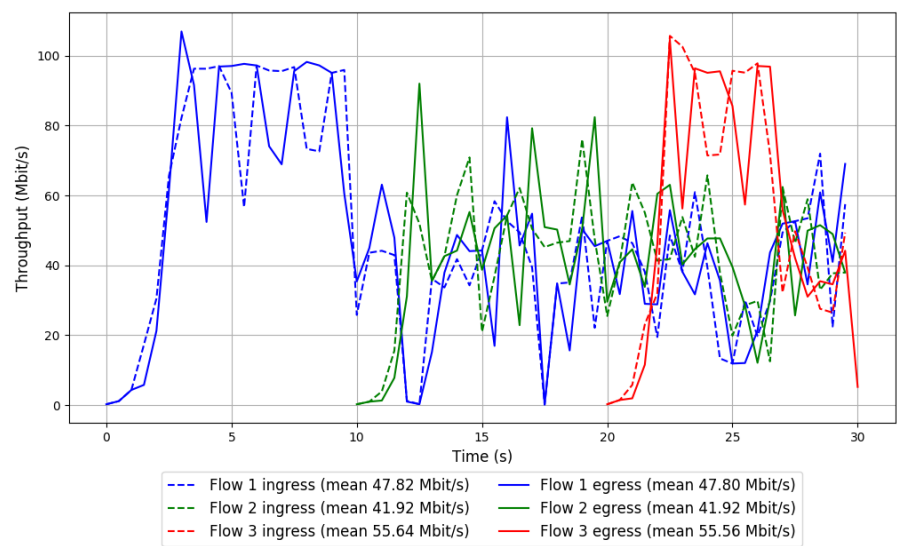
-- Flow 3:

Average throughput: 55.56 Mbit/s

95th percentile per-packet one-way delay: 158.308 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-12-06 13:11:32

End at: 2017-12-06 13:12:02

Below is generated by plot.py at 2017-12-06 15:23:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.48 Mbit/s

95th percentile per-packet one-way delay: 149.953 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 42.14 Mbit/s

95th percentile per-packet one-way delay: 149.123 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 38.02 Mbit/s

95th percentile per-packet one-way delay: 148.807 ms

Loss rate: 0.00%

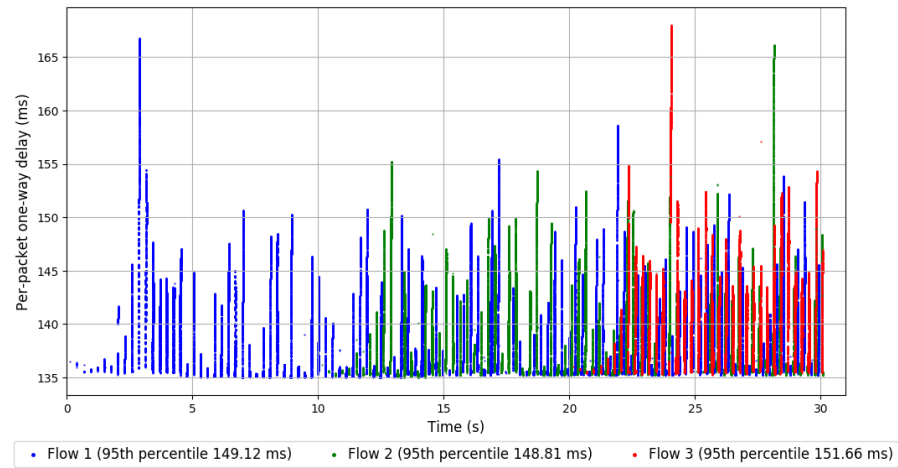
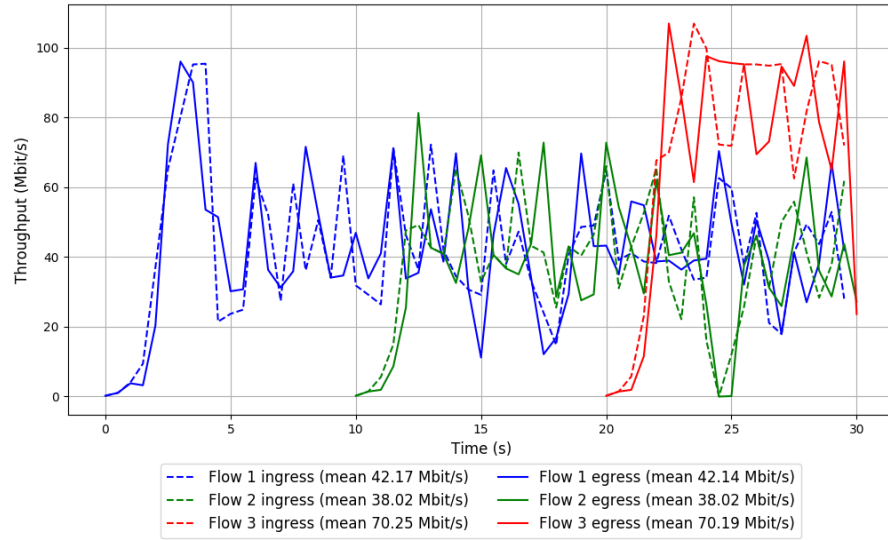
-- Flow 3:

Average throughput: 70.19 Mbit/s

95th percentile per-packet one-way delay: 151.665 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-12-06 13:25:35

End at: 2017-12-06 13:26:05

Below is generated by plot.py at 2017-12-06 15:23:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 103.86 Mbit/s

95th percentile per-packet one-way delay: 150.684 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 38.91 Mbit/s

95th percentile per-packet one-way delay: 150.753 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 63.51 Mbit/s

95th percentile per-packet one-way delay: 147.851 ms

Loss rate: 0.00%

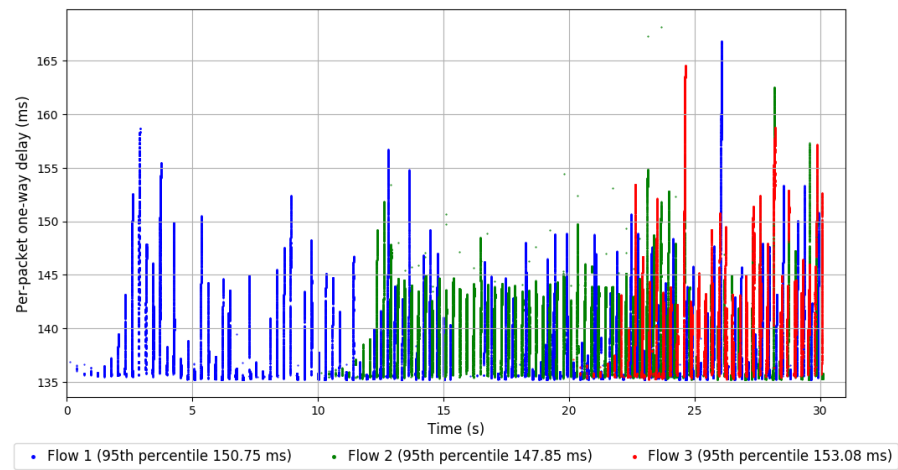
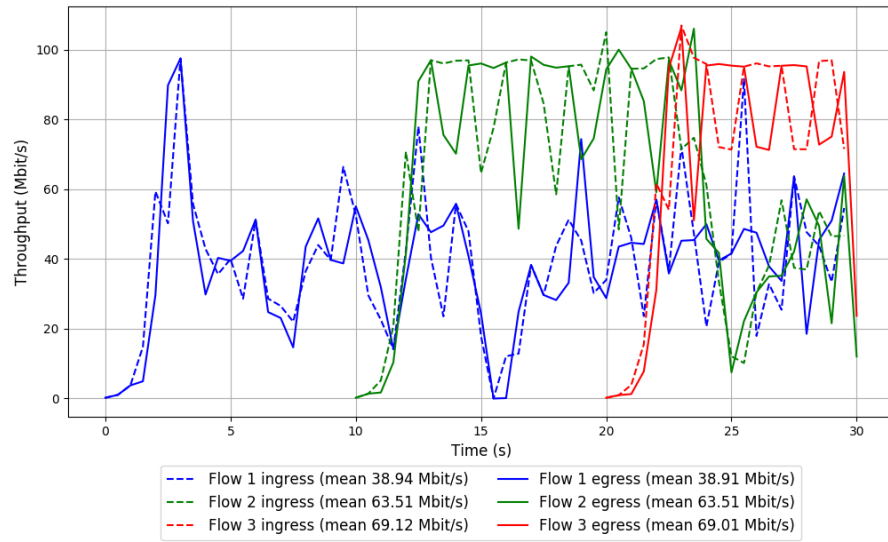
-- Flow 3:

Average throughput: 69.01 Mbit/s

95th percentile per-packet one-way delay: 153.080 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-12-06 13:39:34

End at: 2017-12-06 13:40:04

Below is generated by plot.py at 2017-12-06 15:23:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 102.60 Mbit/s

95th percentile per-packet one-way delay: 151.527 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 38.48 Mbit/s

95th percentile per-packet one-way delay: 151.834 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 62.91 Mbit/s

95th percentile per-packet one-way delay: 149.057 ms

Loss rate: 0.00%

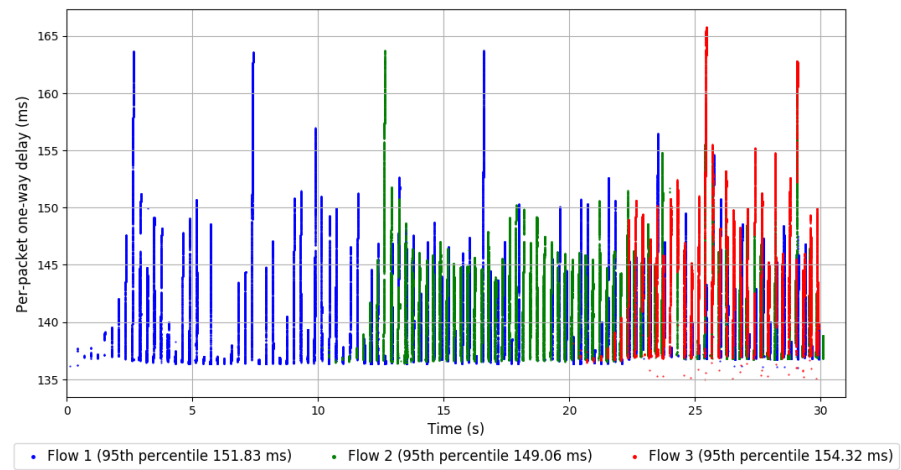
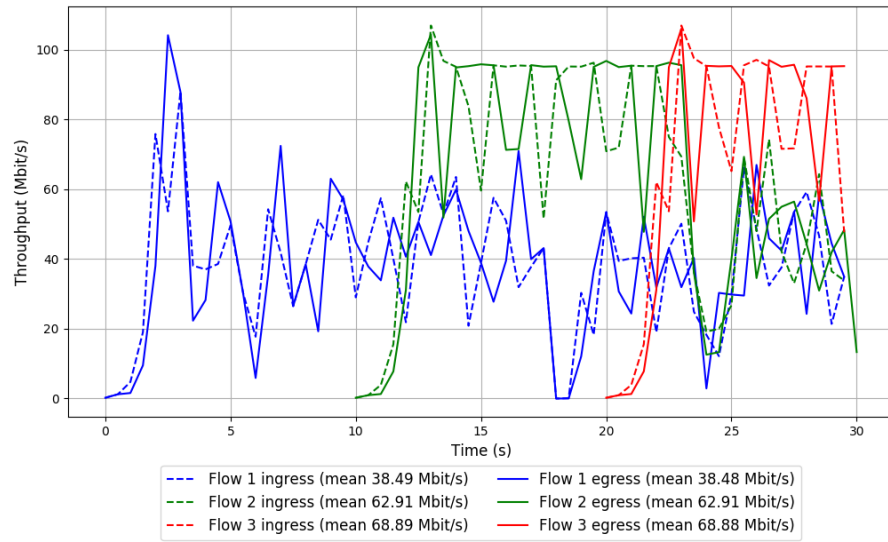
-- Flow 3:

Average throughput: 68.88 Mbit/s

95th percentile per-packet one-way delay: 154.324 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-12-06 13:53:15

End at: 2017-12-06 13:53:45

Below is generated by plot.py at 2017-12-06 15:24:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 113.95 Mbit/s

95th percentile per-packet one-way delay: 149.890 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 50.83 Mbit/s

95th percentile per-packet one-way delay: 149.974 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 78.45 Mbit/s

95th percentile per-packet one-way delay: 148.964 ms

Loss rate: 0.00%

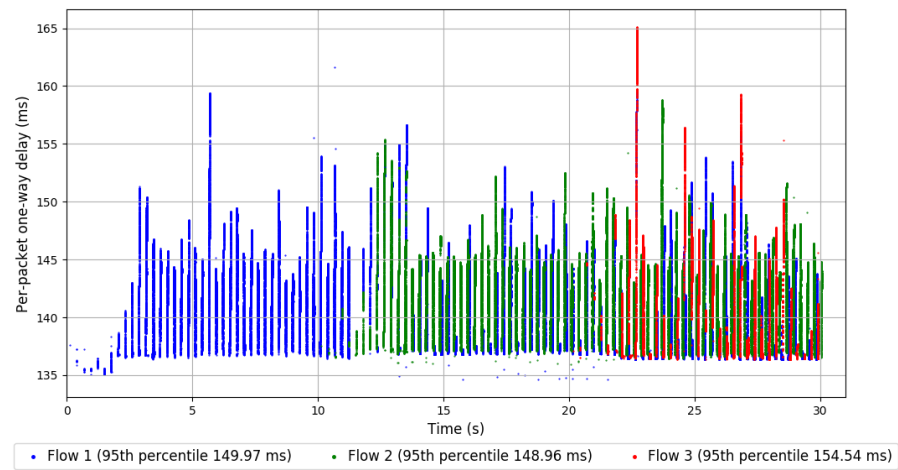
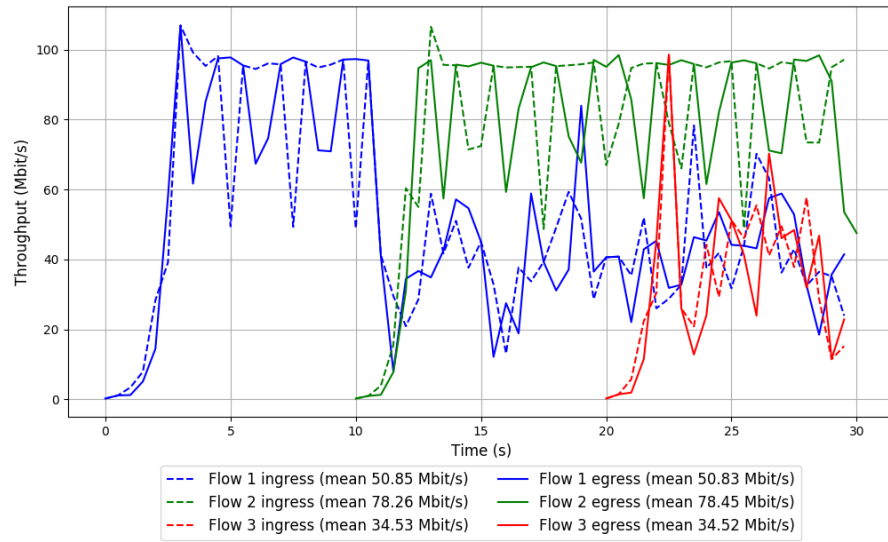
-- Flow 3:

Average throughput: 34.52 Mbit/s

95th percentile per-packet one-way delay: 154.537 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

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

End at: 2017-12-06 14:07:36

Below is generated by plot.py at 2017-12-06 15:24:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 119.68 Mbit/s

95th percentile per-packet one-way delay: 149.662 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 56.00 Mbit/s

95th percentile per-packet one-way delay: 150.823 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 77.90 Mbit/s

95th percentile per-packet one-way delay: 149.572 ms

Loss rate: 0.00%

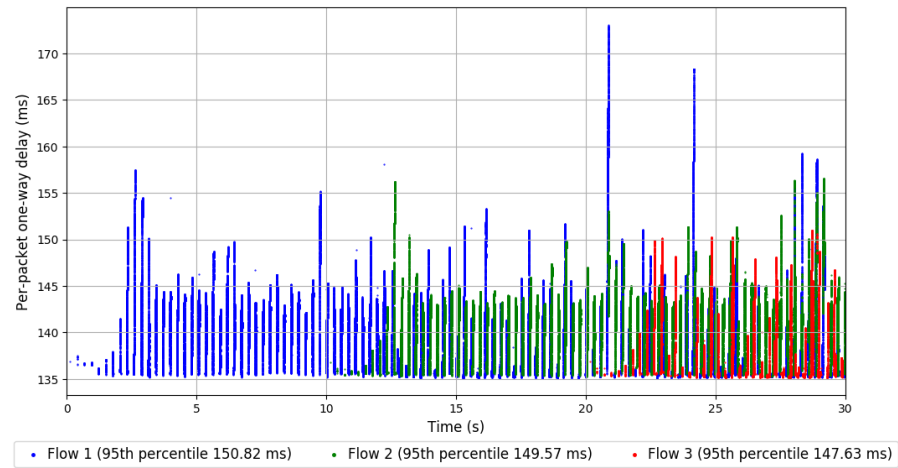
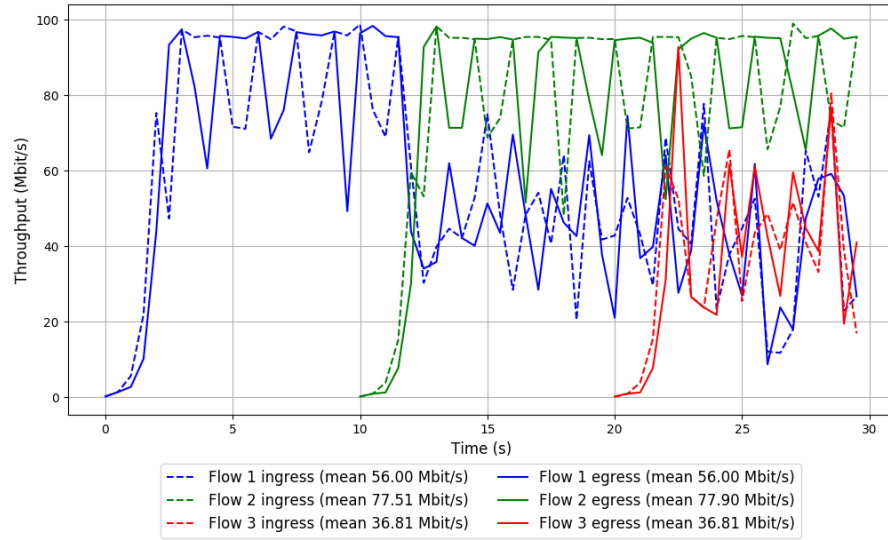
-- Flow 3:

Average throughput: 36.81 Mbit/s

95th percentile per-packet one-way delay: 147.632 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-12-06 14:21:01

End at: 2017-12-06 14:21:31

Below is generated by plot.py at 2017-12-06 15:25:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.48 Mbit/s

95th percentile per-packet one-way delay: 152.332 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 41.07 Mbit/s

95th percentile per-packet one-way delay: 149.414 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 44.90 Mbit/s

95th percentile per-packet one-way delay: 154.447 ms

Loss rate: 0.01%

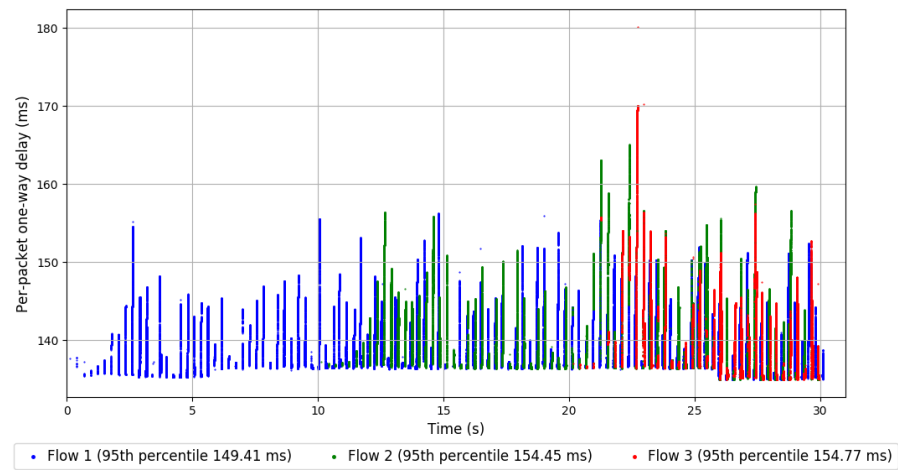
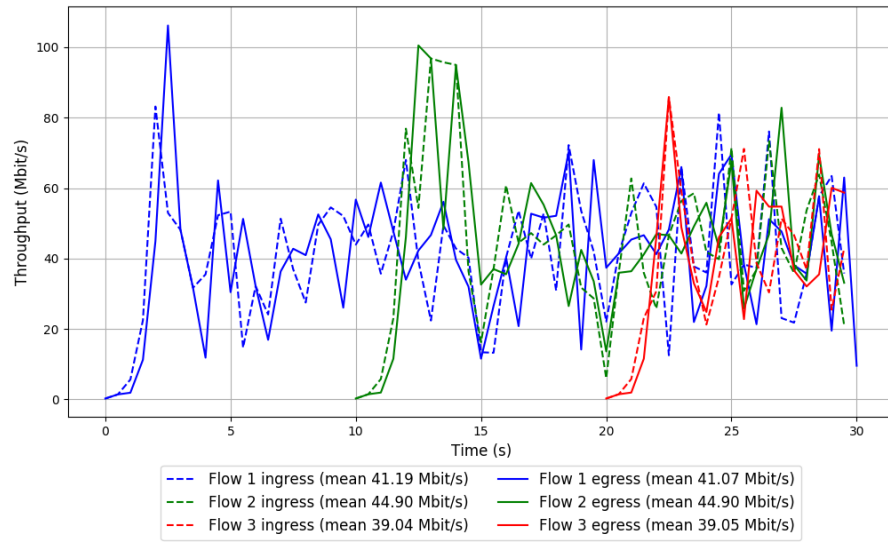
-- Flow 3:

Average throughput: 39.05 Mbit/s

95th percentile per-packet one-way delay: 154.774 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-12-06 14:35:06

End at: 2017-12-06 14:35:36

Below is generated by plot.py at 2017-12-06 15:25:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.83 Mbit/s

95th percentile per-packet one-way delay: 150.045 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 63.67 Mbit/s

95th percentile per-packet one-way delay: 149.634 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 56.02 Mbit/s

95th percentile per-packet one-way delay: 151.178 ms

Loss rate: 0.00%

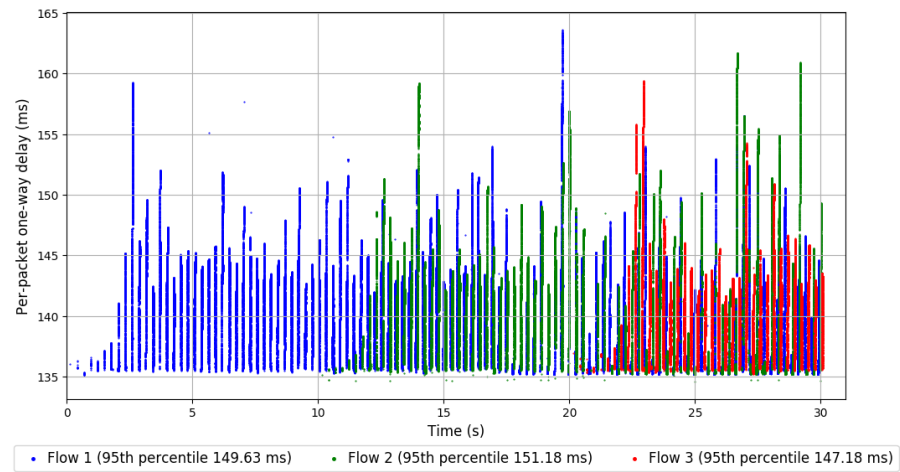
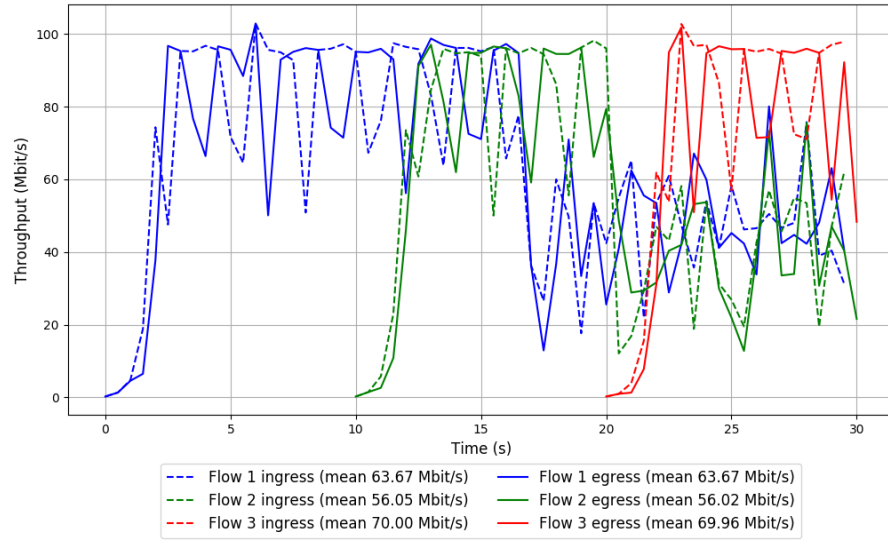
-- Flow 3:

Average throughput: 69.96 Mbit/s

95th percentile per-packet one-way delay: 147.182 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link

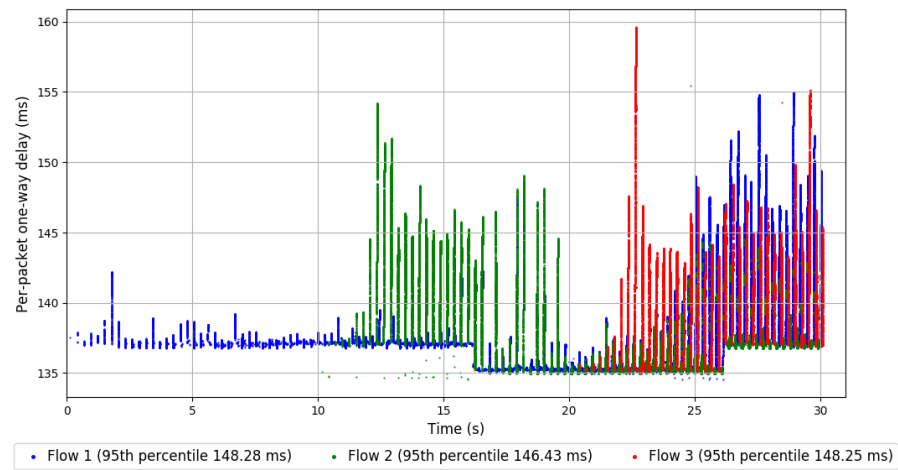
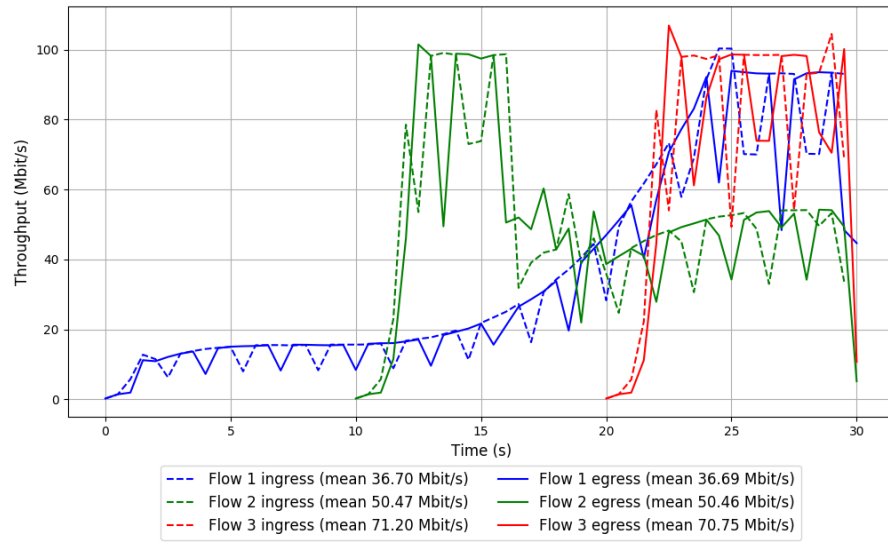


```
Run 1: Statistics of TCP Cubic

Start at: 2017-12-06 12:32:01
End at: 2017-12-06 12:32:31

# Below is generated by plot.py at 2017-12-06 15:25:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.68 Mbit/s
95th percentile per-packet one-way delay: 147.813 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 36.69 Mbit/s
95th percentile per-packet one-way delay: 148.285 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 50.46 Mbit/s
95th percentile per-packet one-way delay: 146.433 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 70.75 Mbit/s
95th percentile per-packet one-way delay: 148.252 ms
Loss rate: 0.64%
```

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

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

End at: 2017-12-06 12:46:40

Below is generated by plot.py at 2017-12-06 15:25:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 110.73 Mbit/s

95th percentile per-packet one-way delay: 158.119 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 40.96 Mbit/s

95th percentile per-packet one-way delay: 156.383 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 69.63 Mbit/s

95th percentile per-packet one-way delay: 157.425 ms

Loss rate: 0.00%

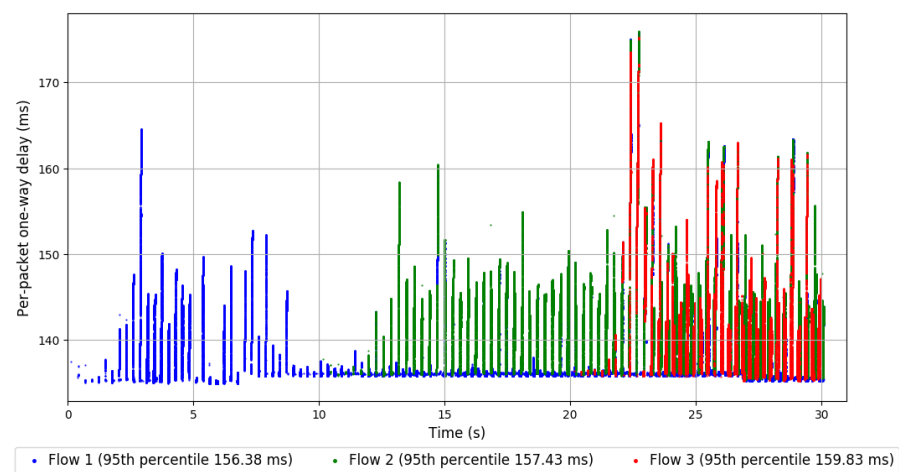
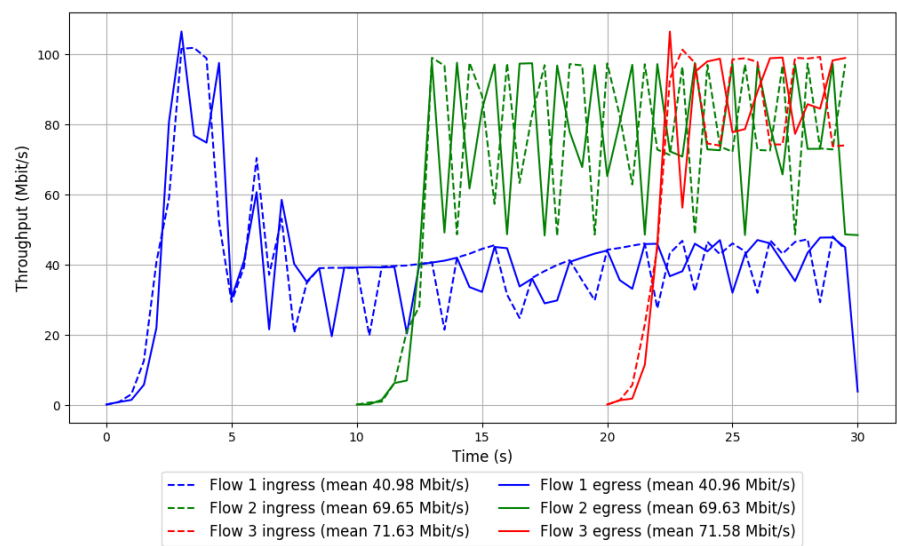
-- Flow 3:

Average throughput: 71.58 Mbit/s

95th percentile per-packet one-way delay: 159.826 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-12-06 13:00:16

End at: 2017-12-06 13:00:46

Below is generated by plot.py at 2017-12-06 15:25:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.86 Mbit/s

95th percentile per-packet one-way delay: 151.827 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 39.30 Mbit/s

95th percentile per-packet one-way delay: 150.574 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 71.64 Mbit/s

95th percentile per-packet one-way delay: 152.388 ms

Loss rate: 0.00%

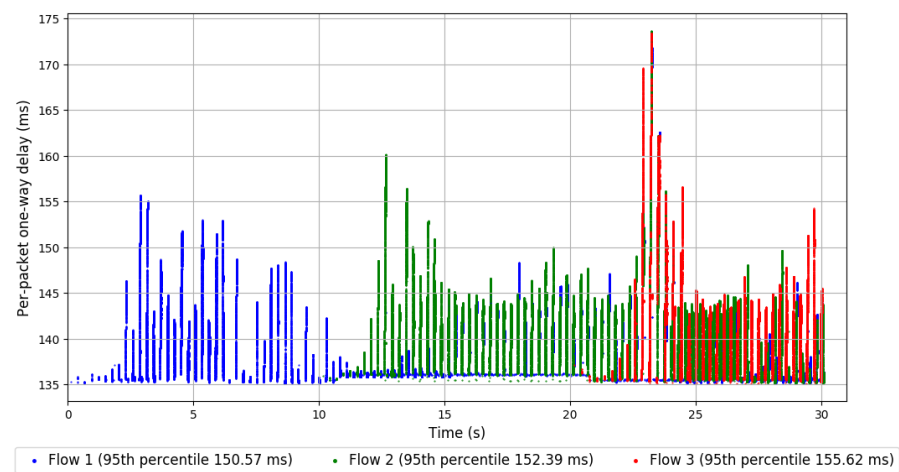
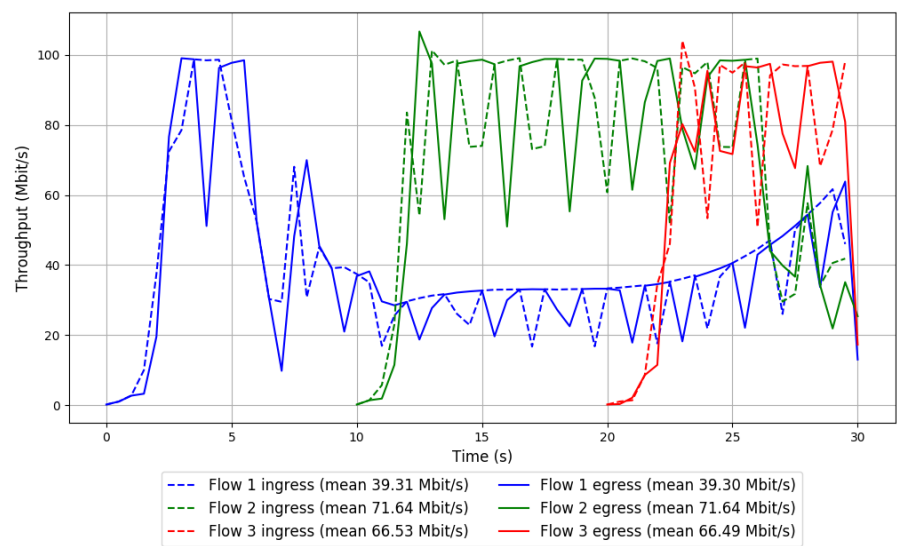
-- Flow 3:

Average throughput: 66.49 Mbit/s

95th percentile per-packet one-way delay: 155.620 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-12-06 13:14:35

End at: 2017-12-06 13:15:05

Below is generated by plot.py at 2017-12-06 15:25:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 110.27 Mbit/s

95th percentile per-packet one-way delay: 149.168 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 66.33 Mbit/s

95th percentile per-packet one-way delay: 148.451 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 34.31 Mbit/s

95th percentile per-packet one-way delay: 147.299 ms

Loss rate: 0.01%

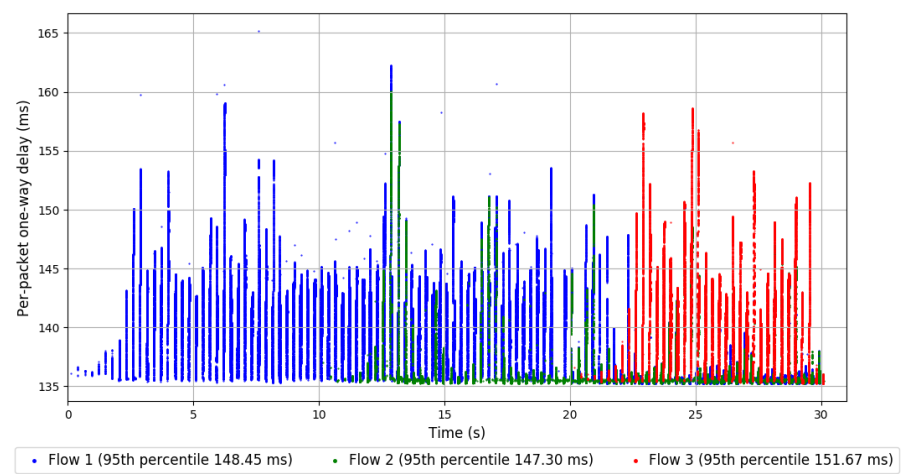
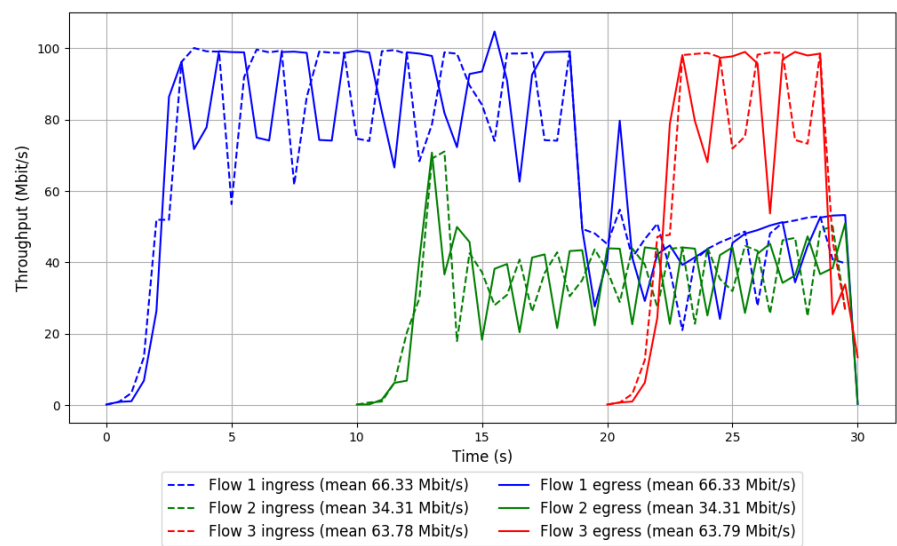
-- Flow 3:

Average throughput: 63.79 Mbit/s

95th percentile per-packet one-way delay: 151.668 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-12-06 13:28:44

End at: 2017-12-06 13:29:14

Below is generated by plot.py at 2017-12-06 15:25:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.30 Mbit/s

95th percentile per-packet one-way delay: 143.916 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 53.25 Mbit/s

95th percentile per-packet one-way delay: 139.901 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 37.86 Mbit/s

95th percentile per-packet one-way delay: 144.207 ms

Loss rate: 0.00%

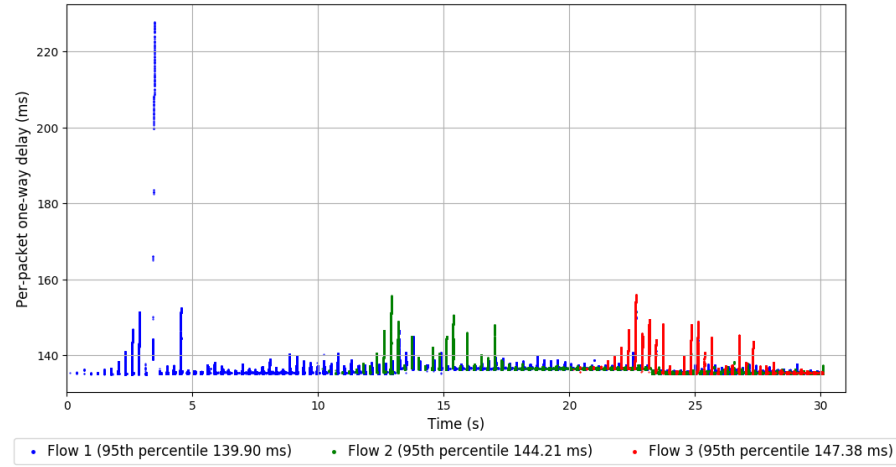
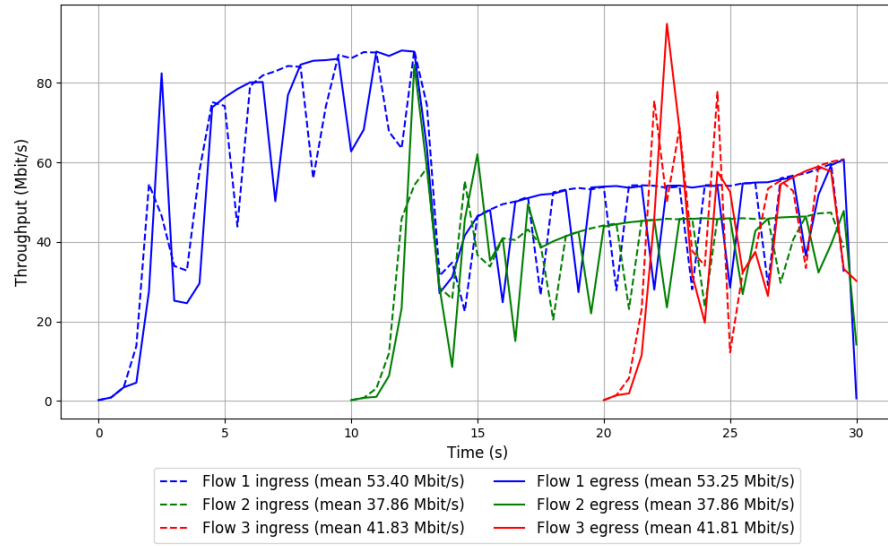
-- Flow 3:

Average throughput: 41.81 Mbit/s

95th percentile per-packet one-way delay: 147.379 ms

Loss rate: 0.05%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-12-06 13:42:41

End at: 2017-12-06 13:43:11

Below is generated by plot.py at 2017-12-06 15:26:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.62 Mbit/s

95th percentile per-packet one-way delay: 147.611 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.74 Mbit/s

95th percentile per-packet one-way delay: 147.357 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 79.72 Mbit/s

95th percentile per-packet one-way delay: 147.985 ms

Loss rate: 0.00%

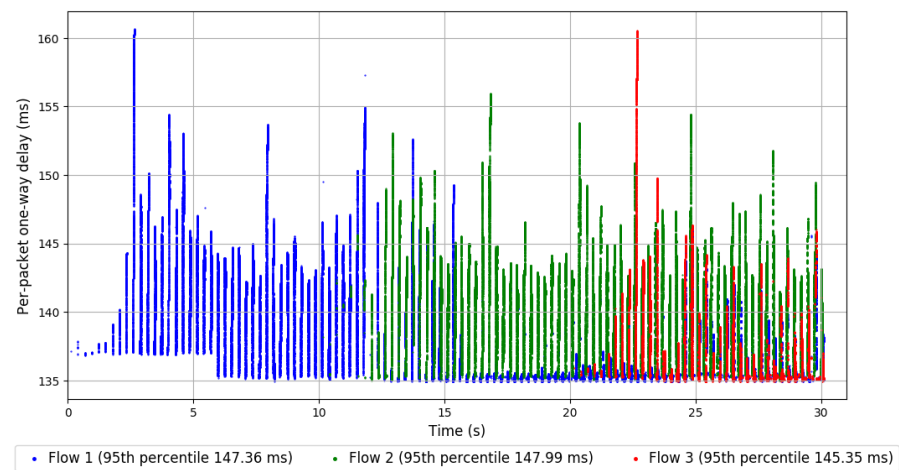
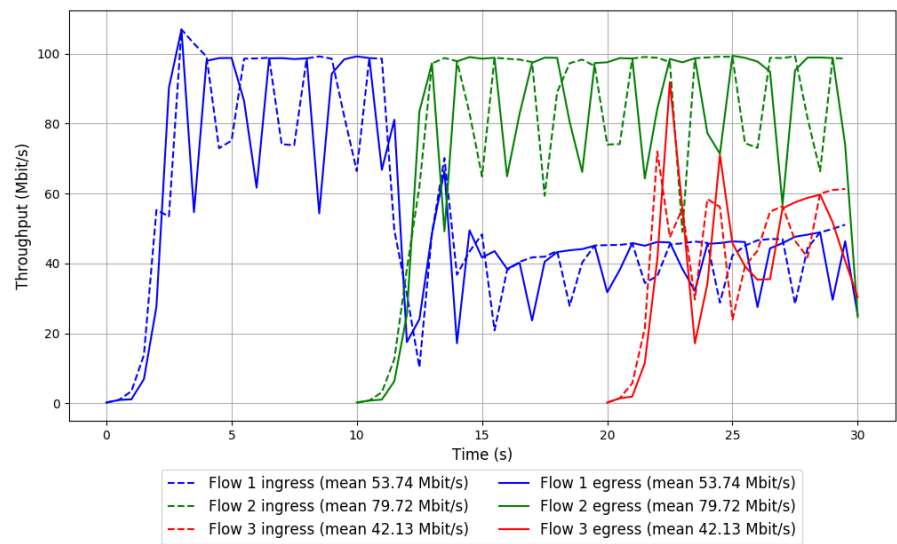
-- Flow 3:

Average throughput: 42.13 Mbit/s

95th percentile per-packet one-way delay: 145.351 ms

Loss rate: 0.01%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-12-06 13:56:22

End at: 2017-12-06 13:56:52

Below is generated by plot.py at 2017-12-06 15:26:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.83 Mbit/s

95th percentile per-packet one-way delay: 148.665 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 48.81 Mbit/s

95th percentile per-packet one-way delay: 147.359 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 49.66 Mbit/s

95th percentile per-packet one-way delay: 149.280 ms

Loss rate: 0.00%

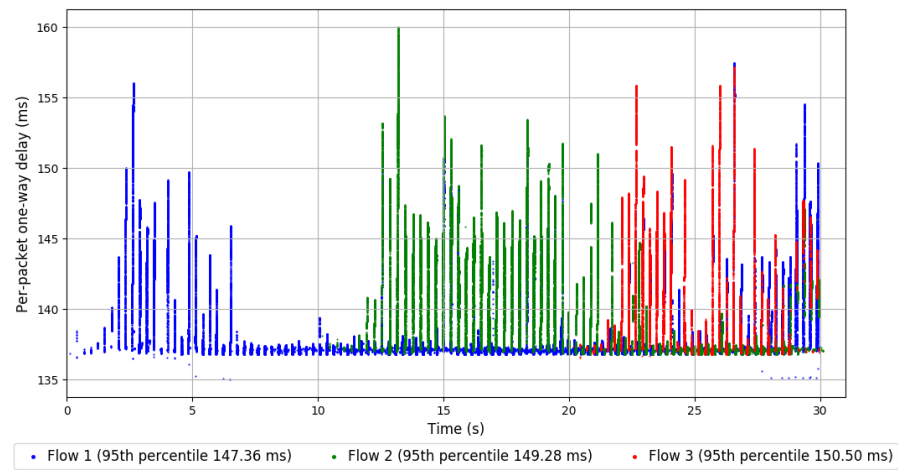
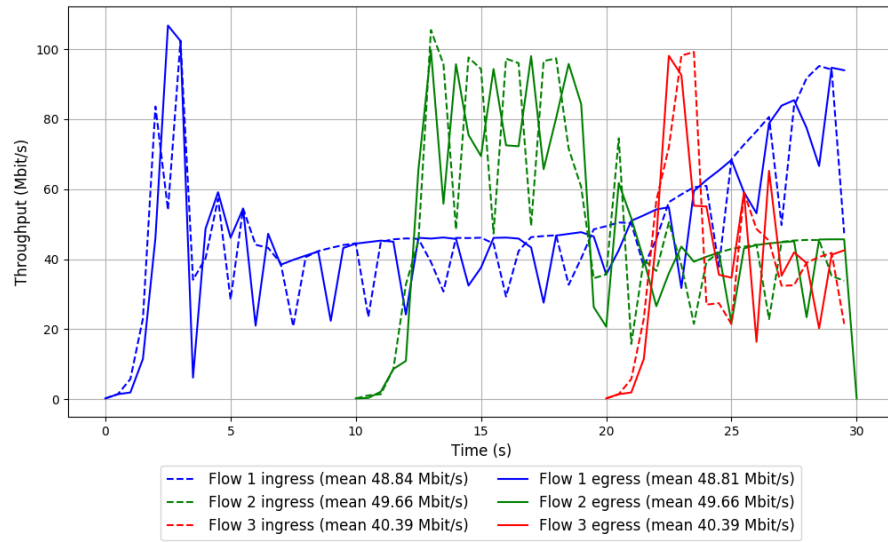
-- Flow 3:

Average throughput: 40.39 Mbit/s

95th percentile per-packet one-way delay: 150.500 ms

Loss rate: 0.01%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-12-06 14:10:15

End at: 2017-12-06 14:10:45

Below is generated by plot.py at 2017-12-06 15:27:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.16 Mbit/s

95th percentile per-packet one-way delay: 147.342 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 40.68 Mbit/s

95th percentile per-packet one-way delay: 145.657 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 80.06 Mbit/s

95th percentile per-packet one-way delay: 148.557 ms

Loss rate: 0.00%

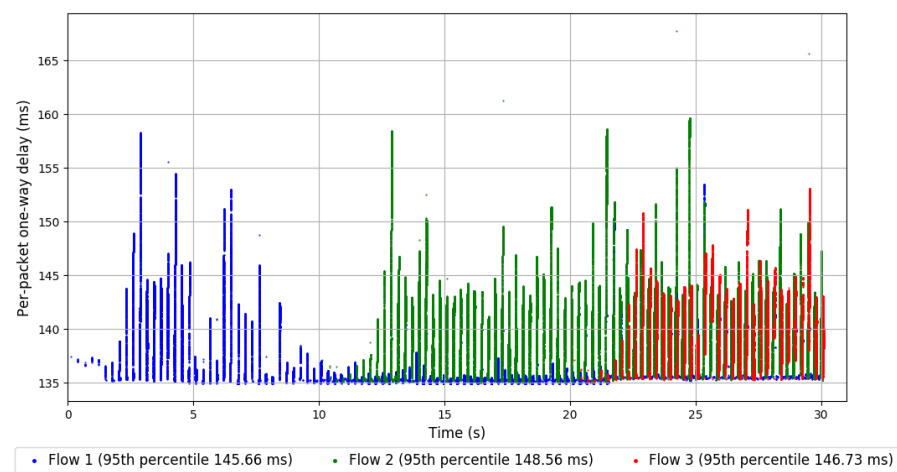
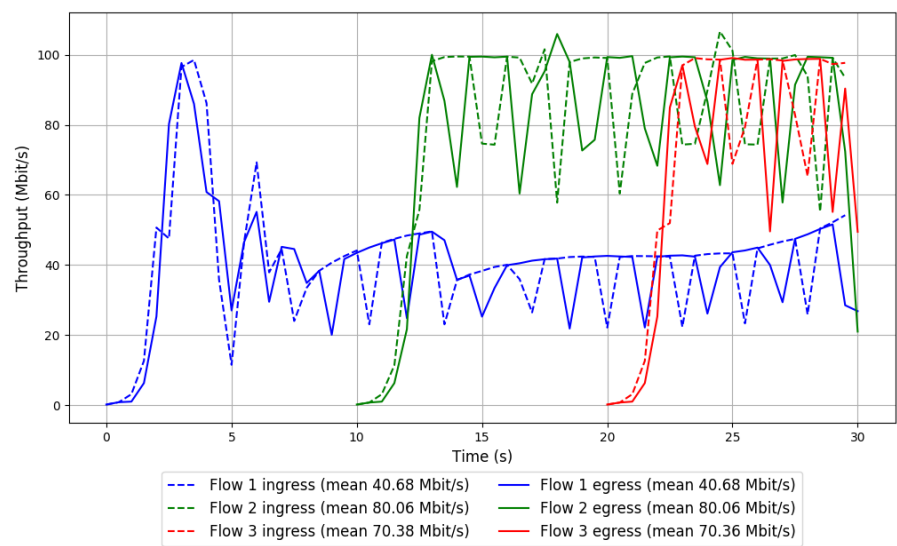
-- Flow 3:

Average throughput: 70.36 Mbit/s

95th percentile per-packet one-way delay: 146.731 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-12-06 14:24:05

End at: 2017-12-06 14:24:36

Below is generated by plot.py at 2017-12-06 15:27:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 122.01 Mbit/s

95th percentile per-packet one-way delay: 148.405 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 57.04 Mbit/s

95th percentile per-packet one-way delay: 148.603 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 78.79 Mbit/s

95th percentile per-packet one-way delay: 148.121 ms

Loss rate: 0.00%

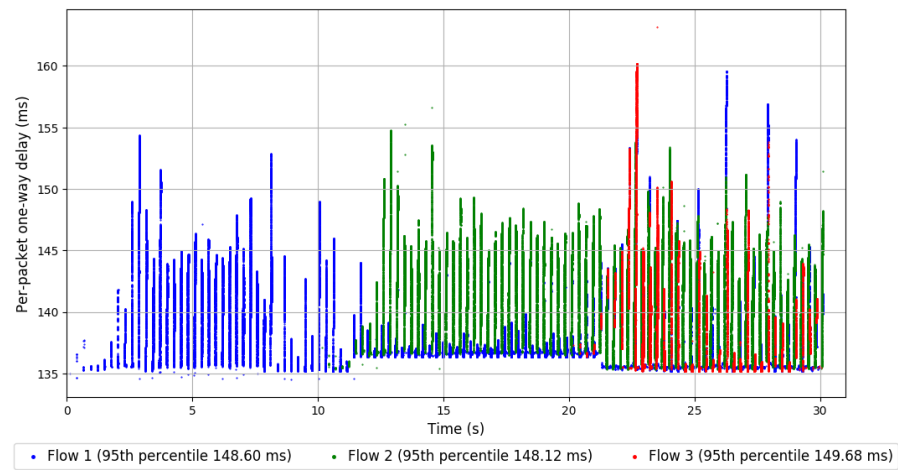
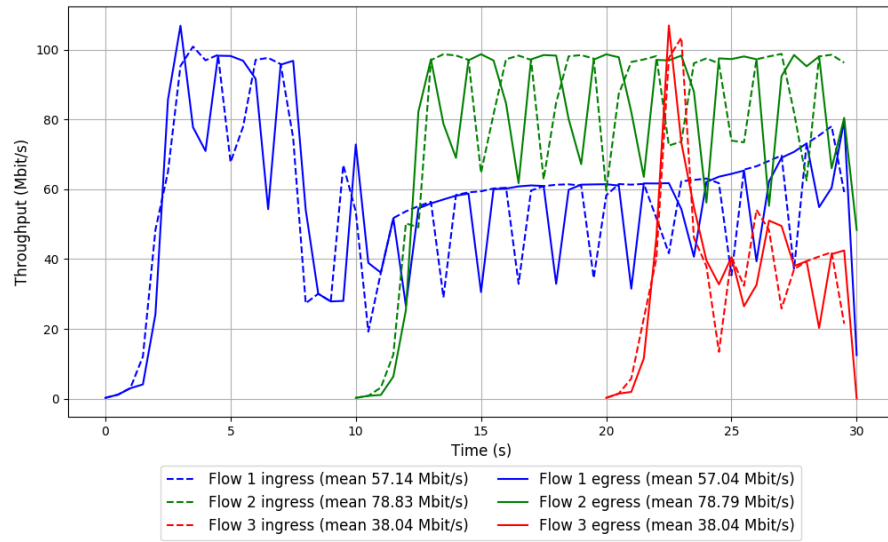
-- Flow 3:

Average throughput: 38.04 Mbit/s

95th percentile per-packet one-way delay: 149.675 ms

Loss rate: 0.04%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-12-06 14:38:15

End at: 2017-12-06 14:38:45

Below is generated by plot.py at 2017-12-06 15:27:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.56 Mbit/s

95th percentile per-packet one-way delay: 146.932 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 20.72 Mbit/s

95th percentile per-packet one-way delay: 139.311 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 53.73 Mbit/s

95th percentile per-packet one-way delay: 148.246 ms

Loss rate: 0.00%

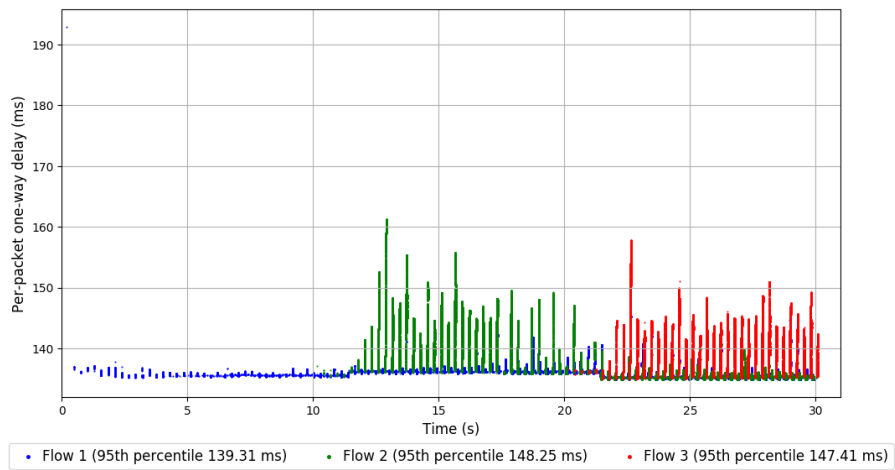
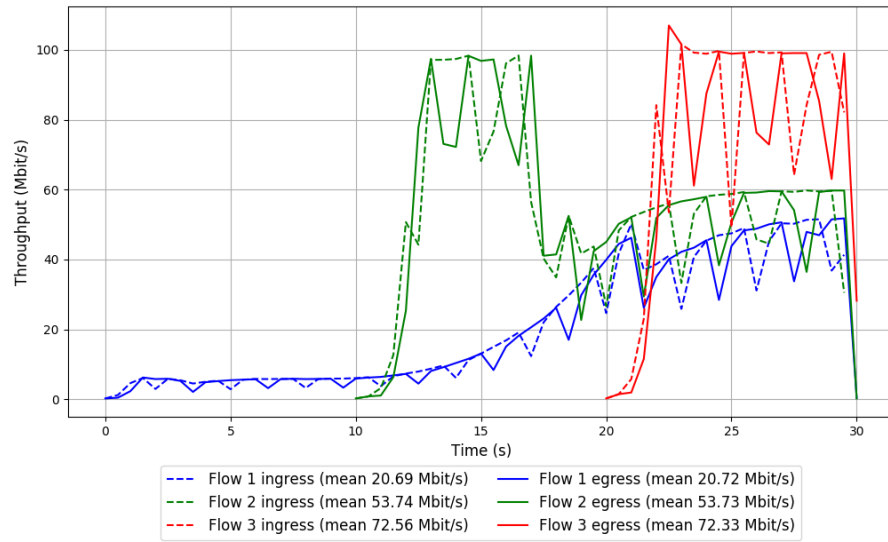
-- Flow 3:

Average throughput: 72.33 Mbit/s

95th percentile per-packet one-way delay: 147.413 ms

Loss rate: 0.32%

Run 10: Report of TCP Cubic — Data Link

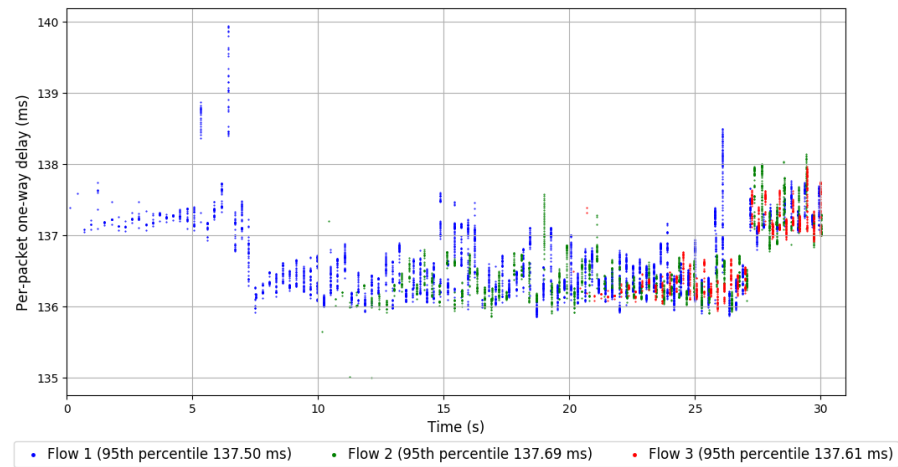
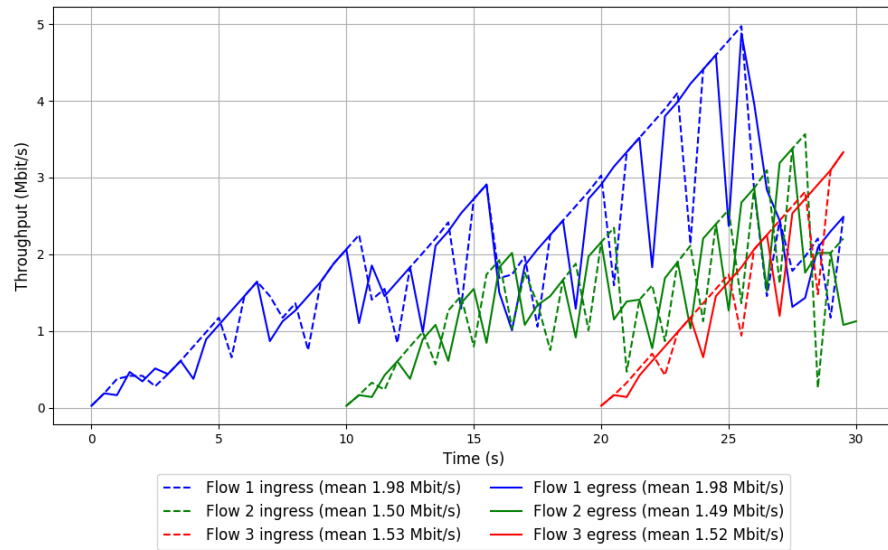


```
Run 1: Statistics of LEDBAT

Start at: 2017-12-06 12:23:20
End at: 2017-12-06 12:23:50

# Below is generated by plot.py at 2017-12-06 15:27:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.47 Mbit/s
95th percentile per-packet one-way delay: 137.592 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 137.498 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 1.49 Mbit/s
95th percentile per-packet one-way delay: 137.690 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 1.52 Mbit/s
95th percentile per-packet one-way delay: 137.614 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

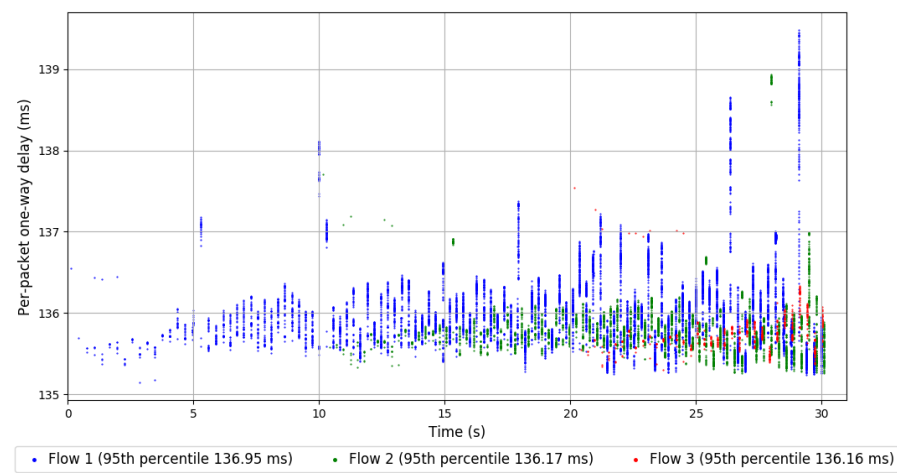
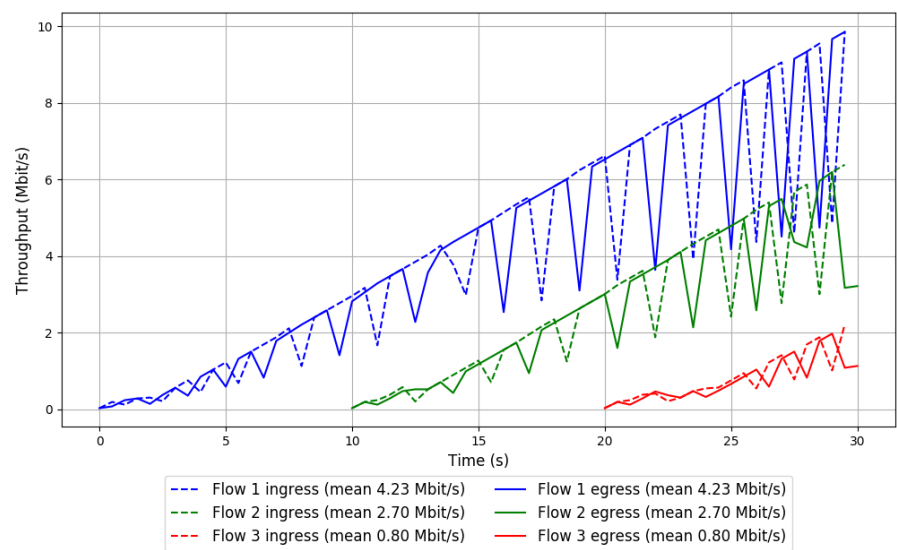


```
Run 2: Statistics of LEDBAT

Start at: 2017-12-06 12:37:14
End at: 2017-12-06 12:37:45

# Below is generated by plot.py at 2017-12-06 15:27:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.28 Mbit/s
95th percentile per-packet one-way delay: 136.845 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.23 Mbit/s
95th percentile per-packet one-way delay: 136.952 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.70 Mbit/s
95th percentile per-packet one-way delay: 136.174 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.80 Mbit/s
95th percentile per-packet one-way delay: 136.161 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-12-06 12:51:23

End at: 2017-12-06 12:51:53

Below is generated by plot.py at 2017-12-06 15:27:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.92 Mbit/s

95th percentile per-packet one-way delay: 136.243 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 541.676 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 136.262 ms

Loss rate: 0.00%

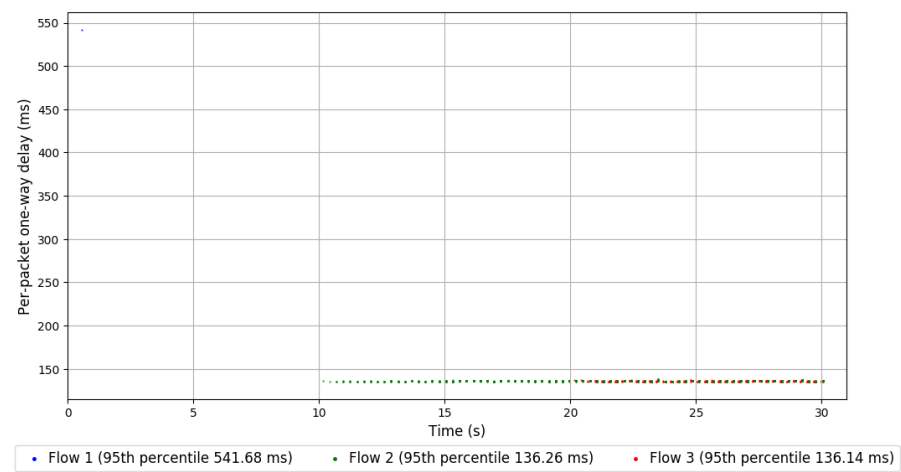
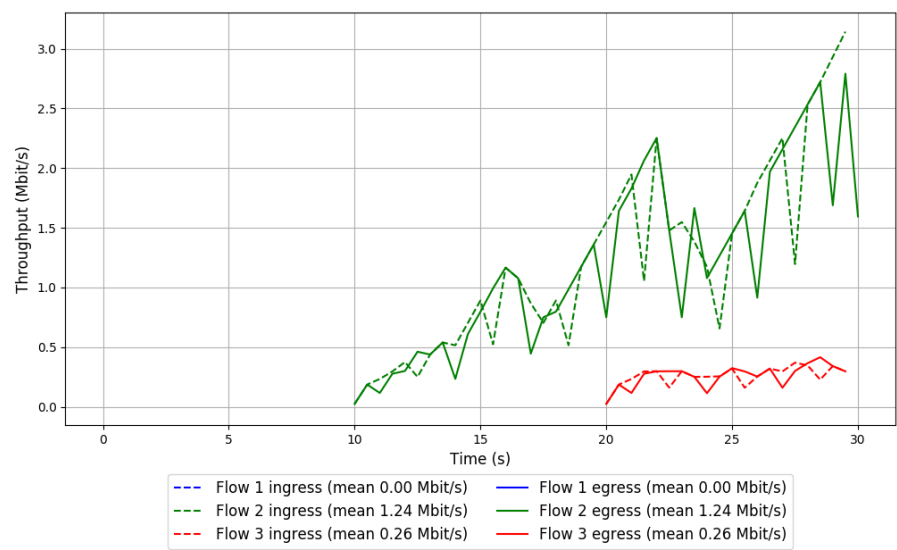
-- Flow 3:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 136.137 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

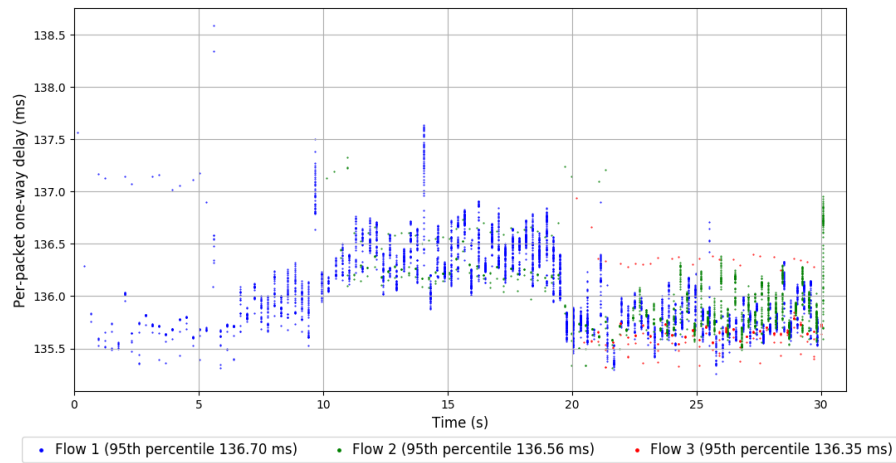
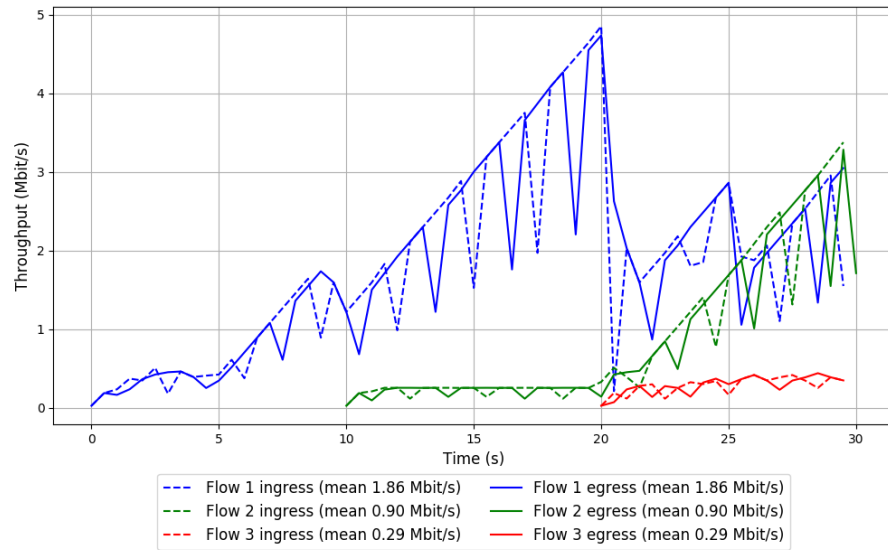


```
Run 4: Statistics of LEDBAT

Start at: 2017-12-06 13:05:37
End at: 2017-12-06 13:06:07

# Below is generated by plot.py at 2017-12-06 15:27:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.54 Mbit/s
95th percentile per-packet one-way delay: 136.686 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 1.86 Mbit/s
95th percentile per-packet one-way delay: 136.704 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 0.90 Mbit/s
95th percentile per-packet one-way delay: 136.562 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 136.351 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-12-06 13:19:53

End at: 2017-12-06 13:20:23

Below is generated by plot.py at 2017-12-06 15:27:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.00 Mbit/s

95th percentile per-packet one-way delay: 136.188 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 3.64 Mbit/s

95th percentile per-packet one-way delay: 136.182 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 136.224 ms

Loss rate: 0.07%

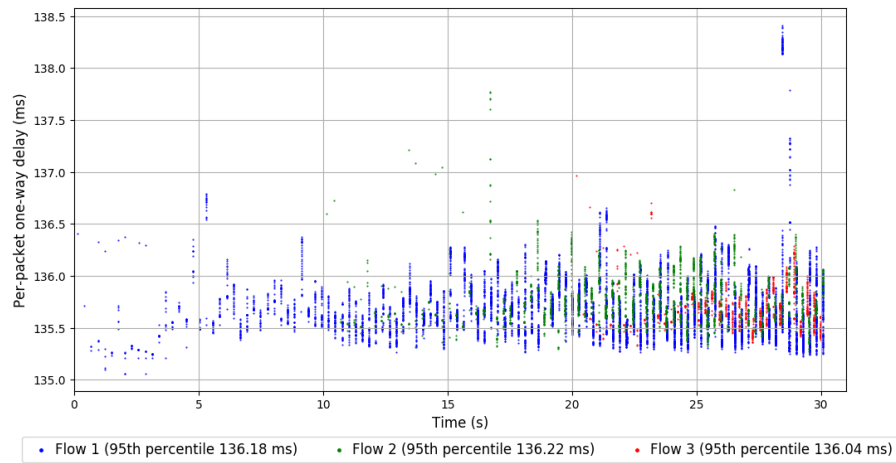
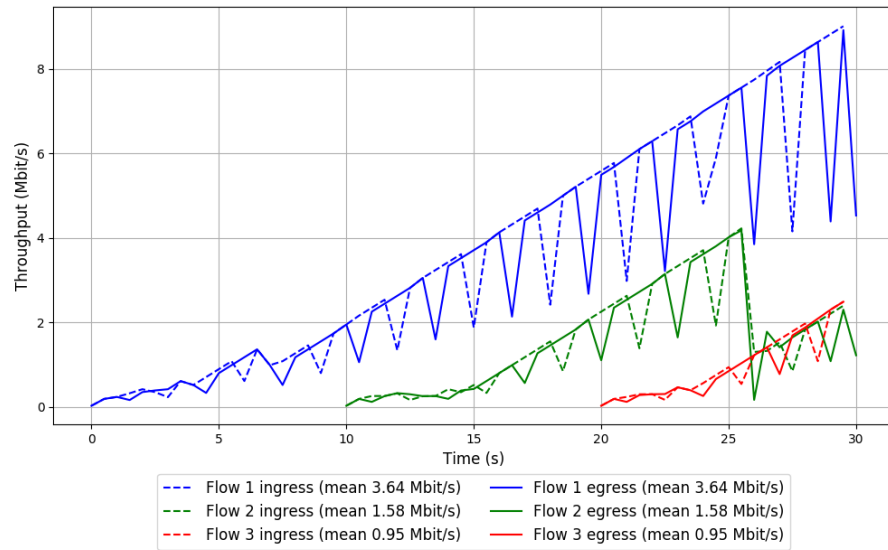
-- Flow 3:

Average throughput: 0.95 Mbit/s

95th percentile per-packet one-way delay: 136.039 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-12-06 13:33:58

End at: 2017-12-06 13:34:28

Below is generated by plot.py at 2017-12-06 15:27:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 137.035 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.03 Mbit/s

95th percentile per-packet one-way delay: 137.060 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.19 Mbit/s

95th percentile per-packet one-way delay: 136.997 ms

Loss rate: 0.00%

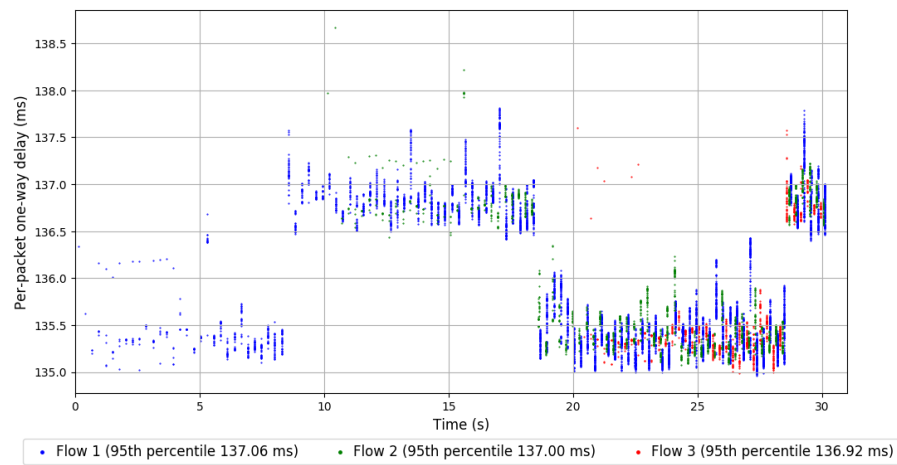
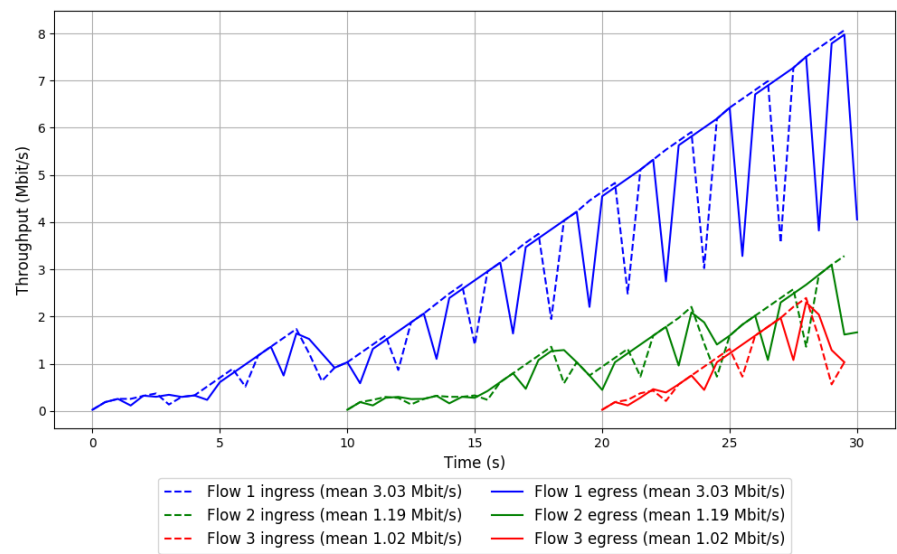
-- Flow 3:

Average throughput: 1.02 Mbit/s

95th percentile per-packet one-way delay: 136.922 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-12-06 13:47:51

End at: 2017-12-06 13:48:21

Below is generated by plot.py at 2017-12-06 15:27:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.55 Mbit/s

95th percentile per-packet one-way delay: 137.812 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 137.793 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 137.807 ms

Loss rate: 0.30%

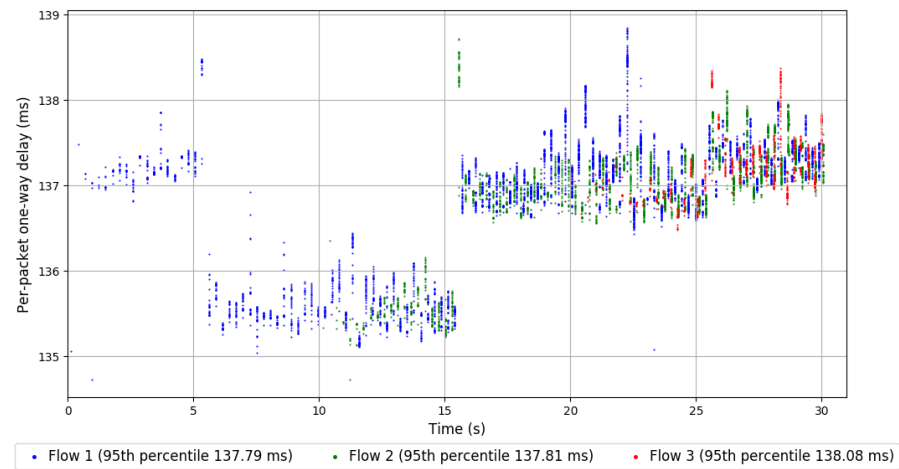
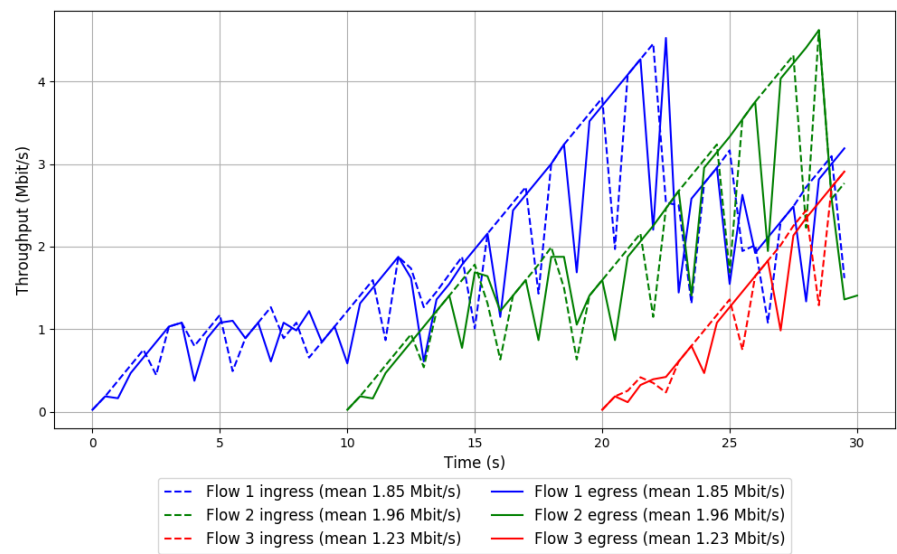
-- Flow 3:

Average throughput: 1.23 Mbit/s

95th percentile per-packet one-way delay: 138.083 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-12-06 14:01:33

End at: 2017-12-06 14:02:03

Below is generated by plot.py at 2017-12-06 15:27:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.33 Mbit/s

95th percentile per-packet one-way delay: 137.663 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 137.674 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 1.19 Mbit/s

95th percentile per-packet one-way delay: 137.662 ms

Loss rate: 0.00%

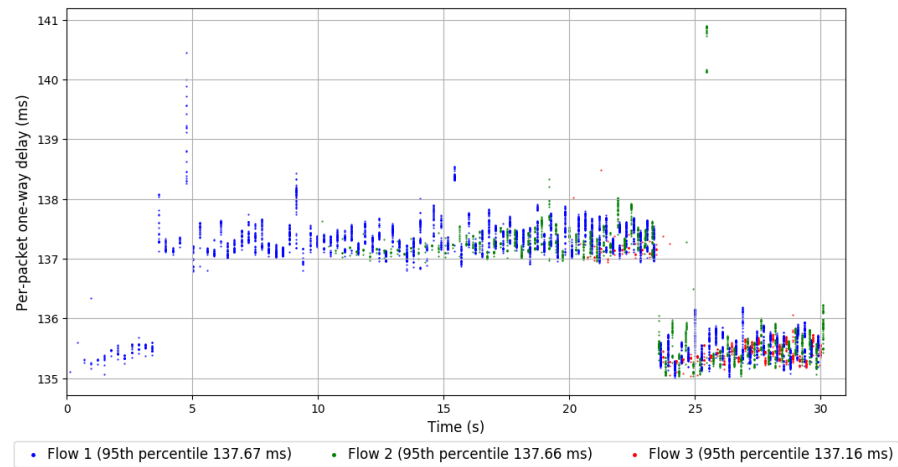
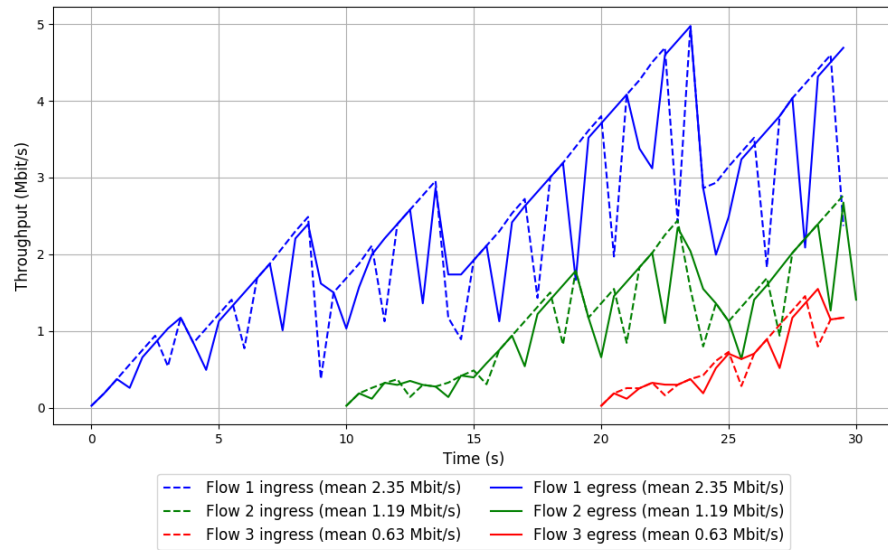
-- Flow 3:

Average throughput: 0.63 Mbit/s

95th percentile per-packet one-way delay: 137.160 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-12-06 14:15:31

End at: 2017-12-06 14:16:01

Below is generated by plot.py at 2017-12-06 15:27:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.89 Mbit/s

95th percentile per-packet one-way delay: 136.933 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 137.027 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 136.765 ms

Loss rate: 0.83%

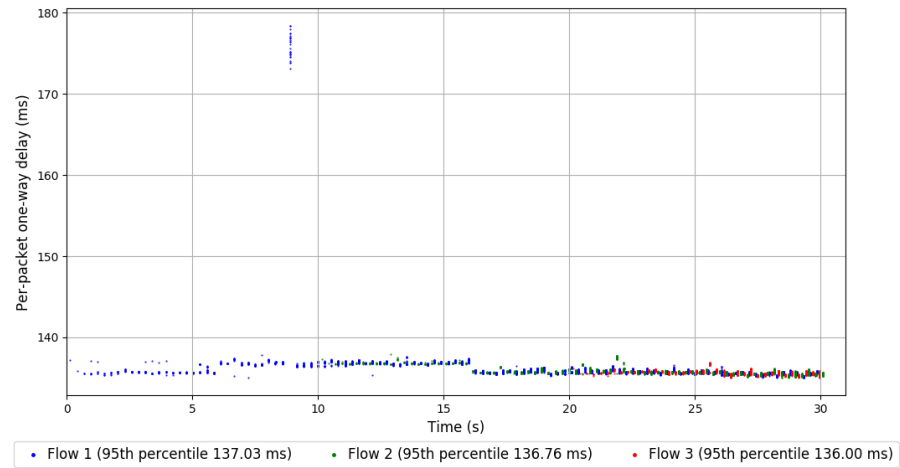
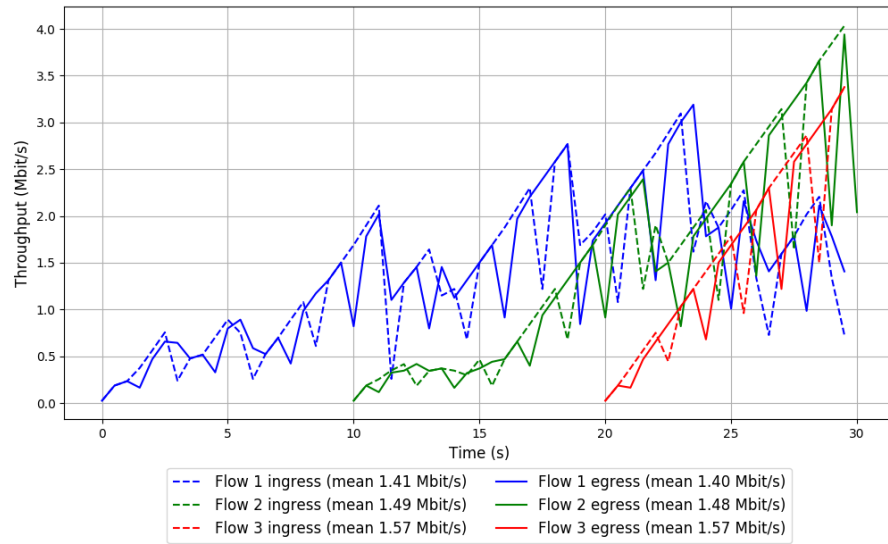
-- Flow 3:

Average throughput: 1.57 Mbit/s

95th percentile per-packet one-way delay: 136.001 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link

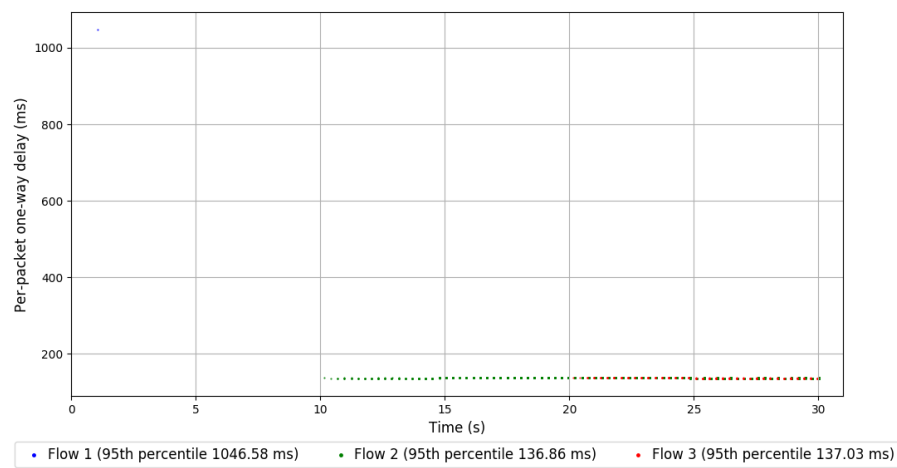
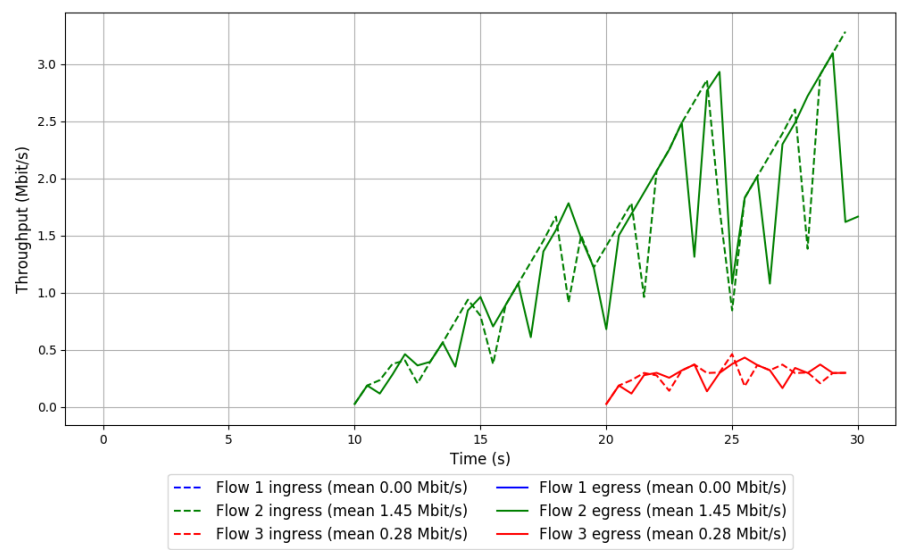


```
Run 10: Statistics of LEDBAT

Start at: 2017-12-06 14:29:22
End at: 2017-12-06 14:29:52

# Below is generated by plot.py at 2017-12-06 15:27:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.09 Mbit/s
95th percentile per-packet one-way delay: 136.862 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 1046.575 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.45 Mbit/s
95th percentile per-packet one-way delay: 136.859 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 137.026 ms
Loss rate: 0.00%
```

Run 10: Report of LEDBAT — Data Link

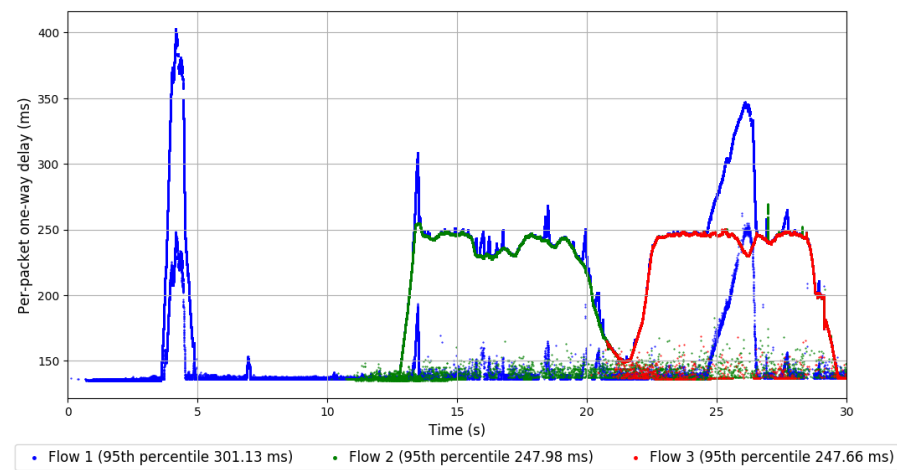
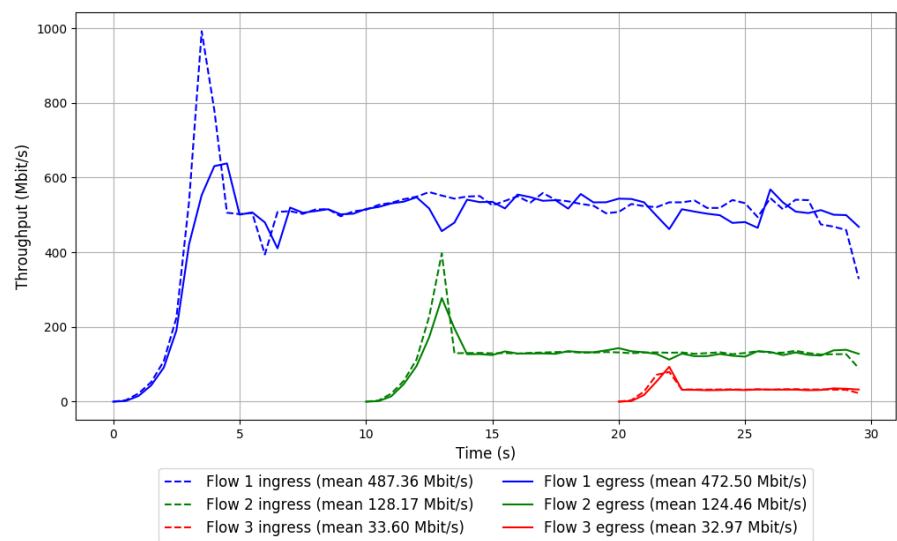


```
Run 1: Statistics of PCC

Start at: 2017-12-06 12:29:52
End at: 2017-12-06 12:30:22

# Below is generated by plot.py at 2017-12-06 15:35:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 566.09 Mbit/s
95th percentile per-packet one-way delay: 285.035 ms
Loss rate: 3.01%
-- Flow 1:
Average throughput: 472.50 Mbit/s
95th percentile per-packet one-way delay: 301.134 ms
Loss rate: 3.05%
-- Flow 2:
Average throughput: 124.46 Mbit/s
95th percentile per-packet one-way delay: 247.978 ms
Loss rate: 2.89%
-- Flow 3:
Average throughput: 32.97 Mbit/s
95th percentile per-packet one-way delay: 247.660 ms
Loss rate: 1.91%
```

Run 1: Report of PCC — Data Link

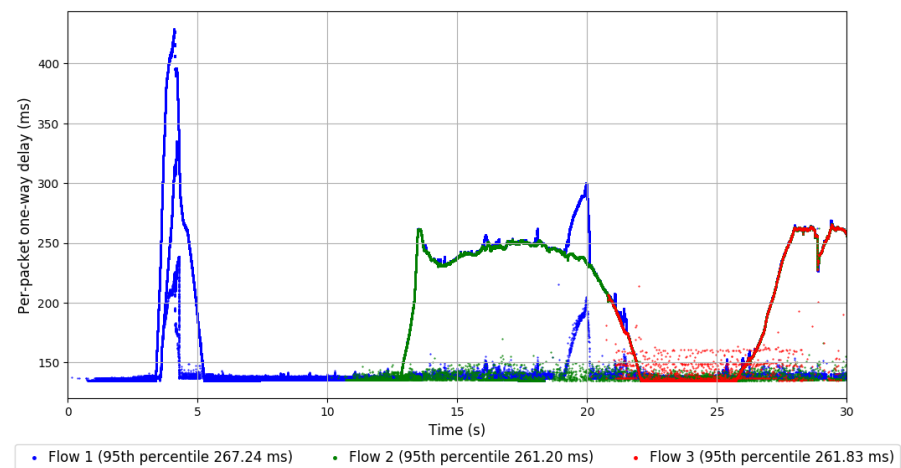
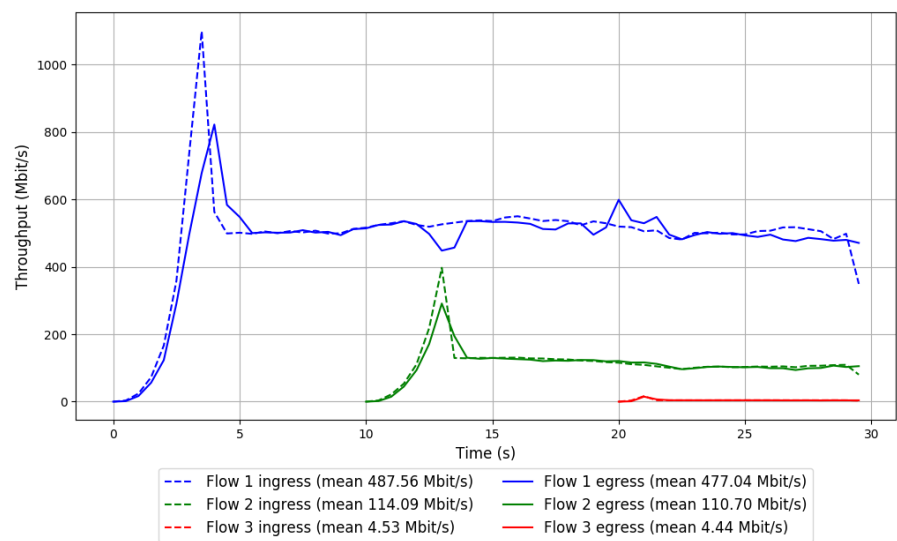


```
Run 2: Statistics of PCC

Start at: 2017-12-06 12:43:59
End at: 2017-12-06 12:44:29

# Below is generated by plot.py at 2017-12-06 15:35:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 552.07 Mbit/s
95th percentile per-packet one-way delay: 263.660 ms
Loss rate: 2.27%
-- Flow 1:
Average throughput: 477.04 Mbit/s
95th percentile per-packet one-way delay: 267.244 ms
Loss rate: 2.16%
-- Flow 2:
Average throughput: 110.70 Mbit/s
95th percentile per-packet one-way delay: 261.198 ms
Loss rate: 2.98%
-- Flow 3:
Average throughput: 4.44 Mbit/s
95th percentile per-packet one-way delay: 261.828 ms
Loss rate: 2.13%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

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

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

Below is generated by plot.py at 2017-12-06 15:35:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 545.29 Mbit/s

95th percentile per-packet one-way delay: 254.475 ms

Loss rate: 2.94%

-- Flow 1:

Average throughput: 470.73 Mbit/s

95th percentile per-packet one-way delay: 255.280 ms

Loss rate: 2.81%

-- Flow 2:

Average throughput: 111.08 Mbit/s

95th percentile per-packet one-way delay: 252.434 ms

Loss rate: 3.72%

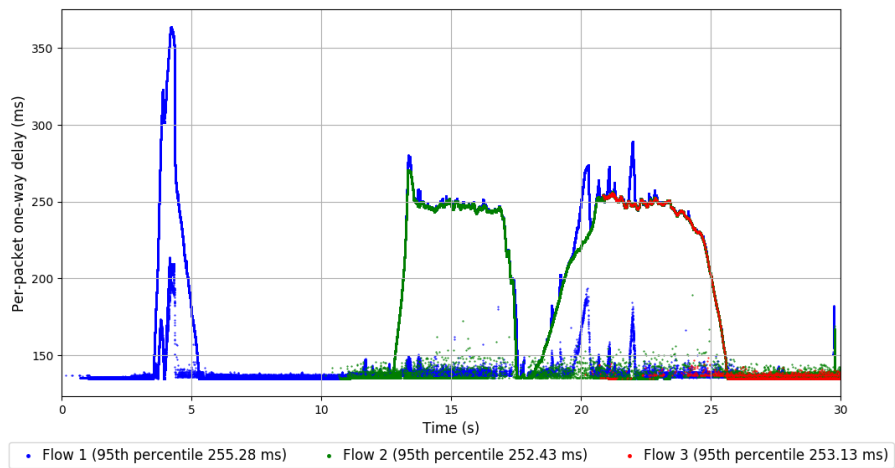
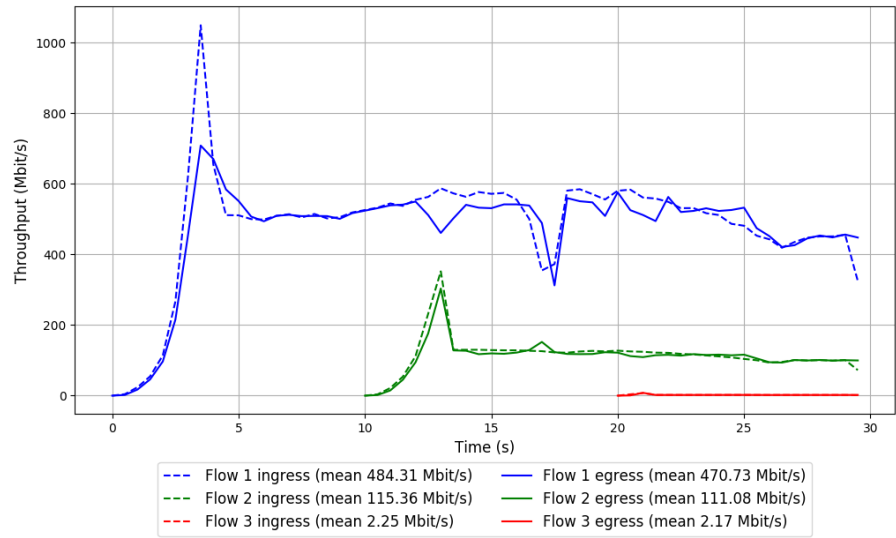
-- Flow 3:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 253.128 ms

Loss rate: 3.84%

Run 3: Report of PCC — Data Link

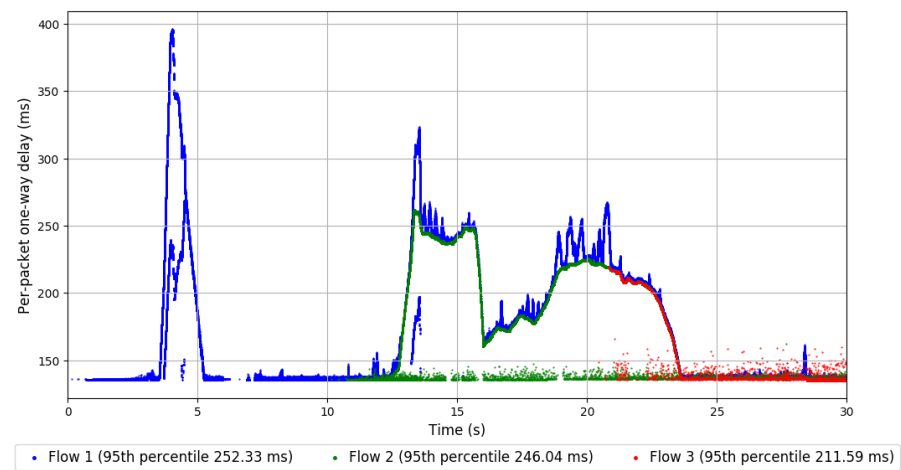
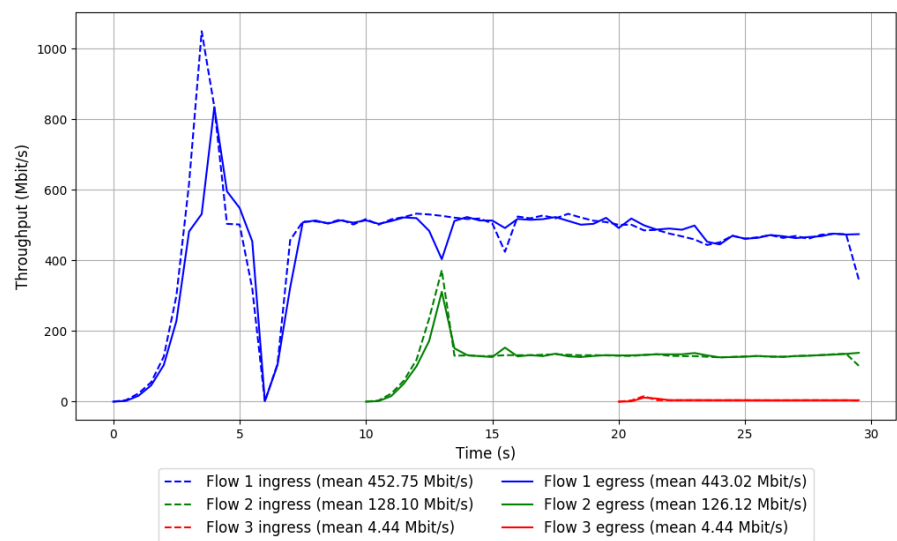


```
Run 4: Statistics of PCC

Start at: 2017-12-06 13:12:28
End at: 2017-12-06 13:12:58

# Below is generated by plot.py at 2017-12-06 15:35:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 528.34 Mbit/s
95th percentile per-packet one-way delay: 250.590 ms
Loss rate: 2.05%
-- Flow 1:
Average throughput: 443.02 Mbit/s
95th percentile per-packet one-way delay: 252.331 ms
Loss rate: 2.15%
-- Flow 2:
Average throughput: 126.12 Mbit/s
95th percentile per-packet one-way delay: 246.042 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 4.44 Mbit/s
95th percentile per-packet one-way delay: 211.590 ms
Loss rate: 0.00%
```

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-12-06 13:26:32

End at: 2017-12-06 13:27:02

Below is generated by plot.py at 2017-12-06 15:36:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 561.17 Mbit/s

95th percentile per-packet one-way delay: 253.002 ms

Loss rate: 3.21%

-- Flow 1:

Average throughput: 479.53 Mbit/s

95th percentile per-packet one-way delay: 254.523 ms

Loss rate: 3.08%

-- Flow 2:

Average throughput: 120.71 Mbit/s

95th percentile per-packet one-way delay: 249.861 ms

Loss rate: 3.98%

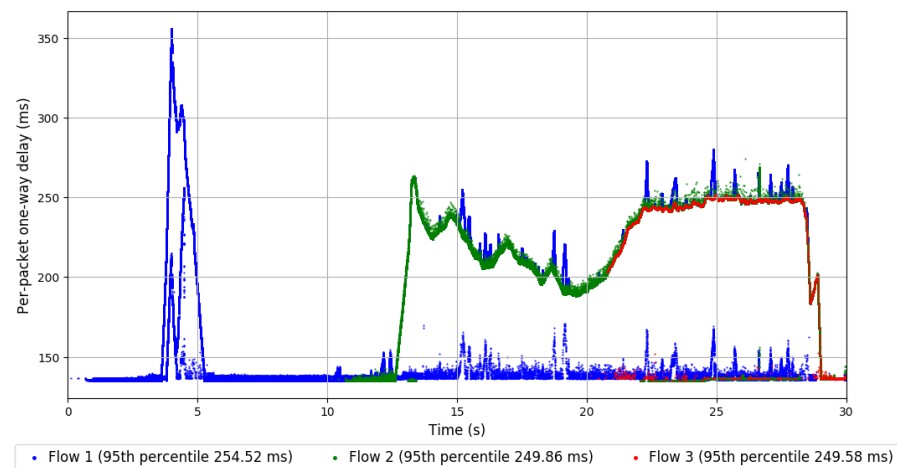
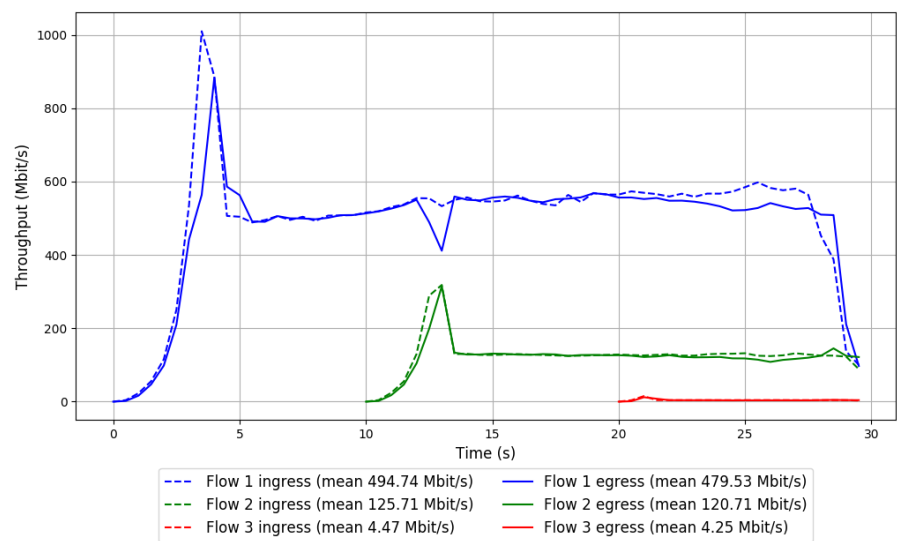
-- Flow 3:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 249.576 ms

Loss rate: 5.13%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-12-06 13:40:32

End at: 2017-12-06 13:41:02

Below is generated by plot.py at 2017-12-06 15:37:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 569.30 Mbit/s

95th percentile per-packet one-way delay: 253.042 ms

Loss rate: 3.91%

-- Flow 1:

Average throughput: 486.69 Mbit/s

95th percentile per-packet one-way delay: 254.751 ms

Loss rate: 3.90%

-- Flow 2:

Average throughput: 122.12 Mbit/s

95th percentile per-packet one-way delay: 250.420 ms

Loss rate: 3.97%

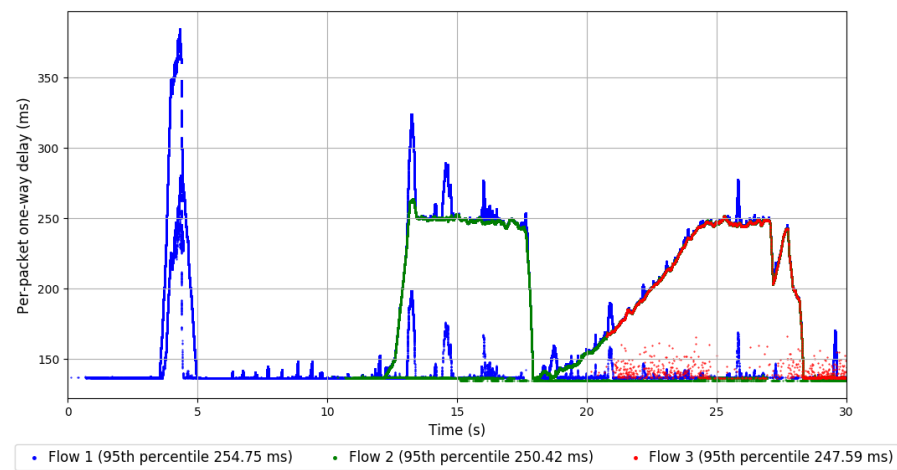
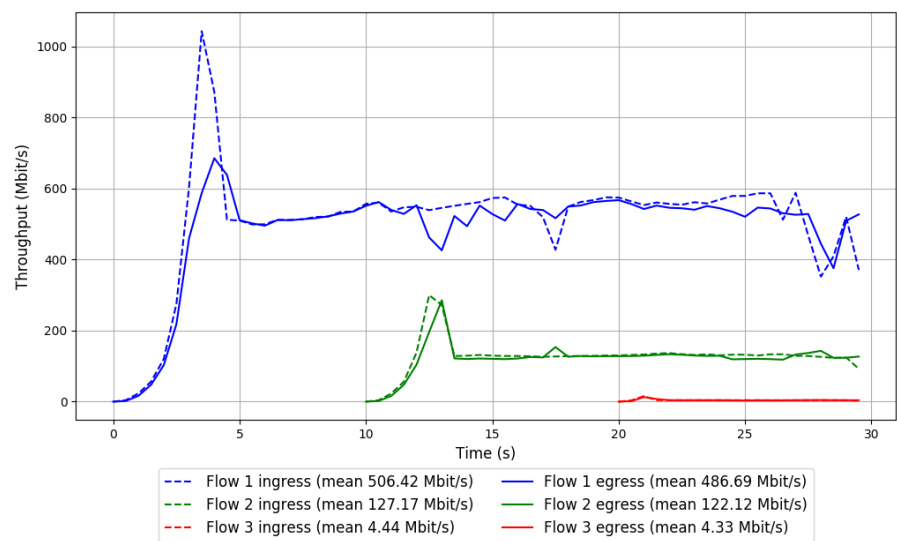
-- Flow 3:

Average throughput: 4.33 Mbit/s

95th percentile per-packet one-way delay: 247.591 ms

Loss rate: 2.47%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-12-06 13:54:12

End at: 2017-12-06 13:54:42

Below is generated by plot.py at 2017-12-06 15:37:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 554.94 Mbit/s

95th percentile per-packet one-way delay: 327.992 ms

Loss rate: 4.19%

-- Flow 1:

Average throughput: 456.01 Mbit/s

95th percentile per-packet one-way delay: 339.223 ms

Loss rate: 4.34%

-- Flow 2:

Average throughput: 118.84 Mbit/s

95th percentile per-packet one-way delay: 248.599 ms

Loss rate: 3.36%

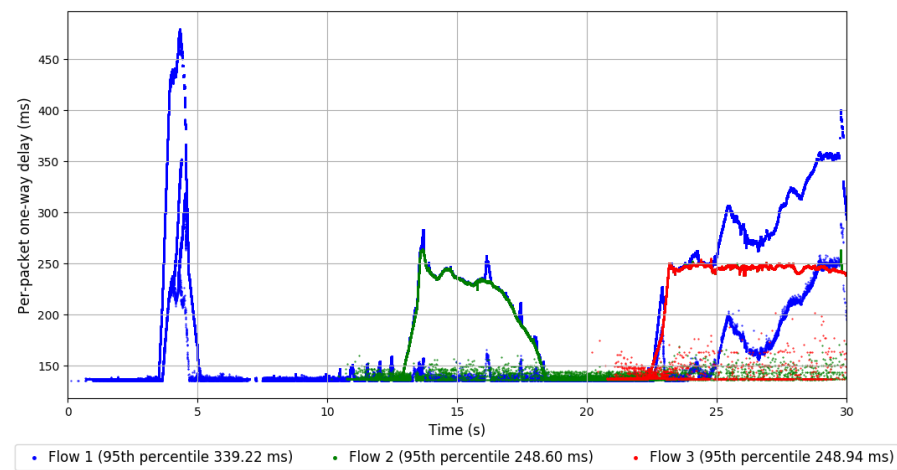
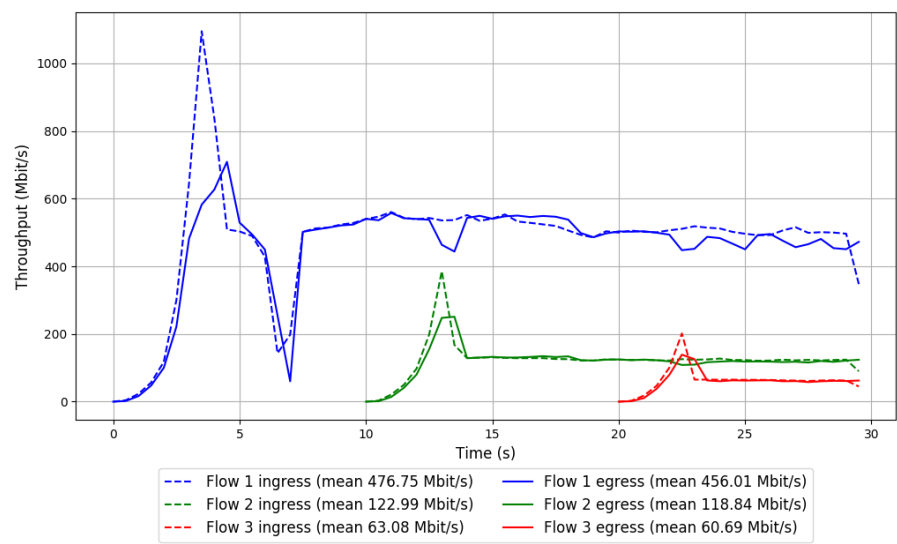
-- Flow 3:

Average throughput: 60.69 Mbit/s

95th percentile per-packet one-way delay: 248.942 ms

Loss rate: 4.02%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-12-06 14:08:04

End at: 2017-12-06 14:08:34

Below is generated by plot.py at 2017-12-06 15:37:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 564.25 Mbit/s

95th percentile per-packet one-way delay: 251.570 ms

Loss rate: 1.81%

-- Flow 1:

Average throughput: 480.64 Mbit/s

95th percentile per-packet one-way delay: 251.775 ms

Loss rate: 1.75%

-- Flow 2:

Average throughput: 124.59 Mbit/s

95th percentile per-packet one-way delay: 250.894 ms

Loss rate: 2.18%

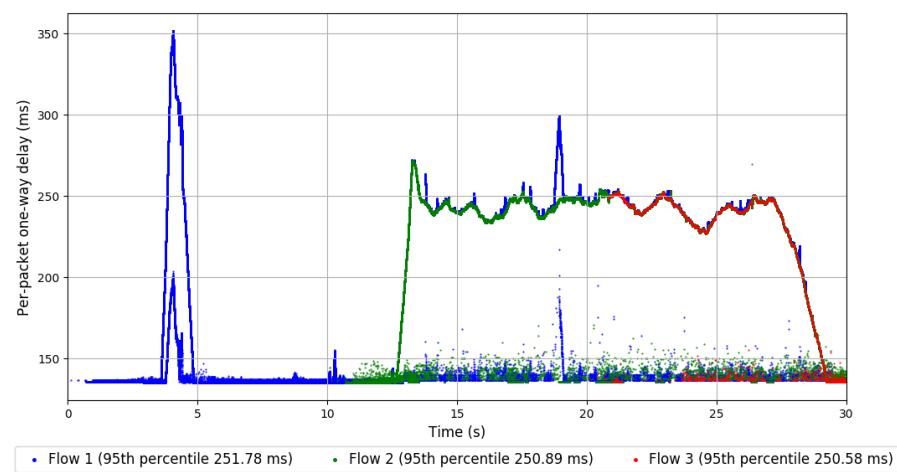
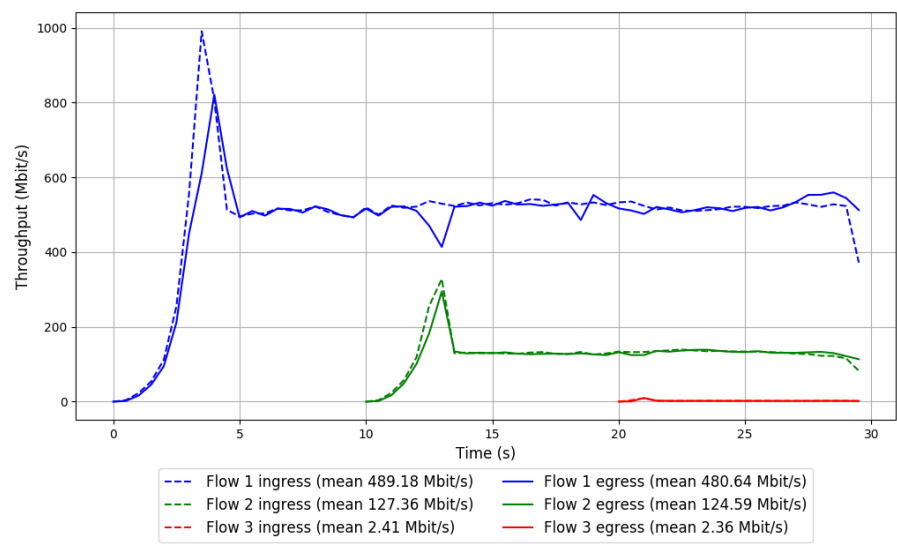
-- Flow 3:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 250.576 ms

Loss rate: 2.02%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-12-06 14:21:57

End at: 2017-12-06 14:22:27

Below is generated by plot.py at 2017-12-06 15:45:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 540.86 Mbit/s

95th percentile per-packet one-way delay: 259.257 ms

Loss rate: 3.62%

-- Flow 1:

Average throughput: 472.57 Mbit/s

95th percentile per-packet one-way delay: 261.388 ms

Loss rate: 3.67%

-- Flow 2:

Average throughput: 73.03 Mbit/s

95th percentile per-packet one-way delay: 245.418 ms

Loss rate: 2.46%

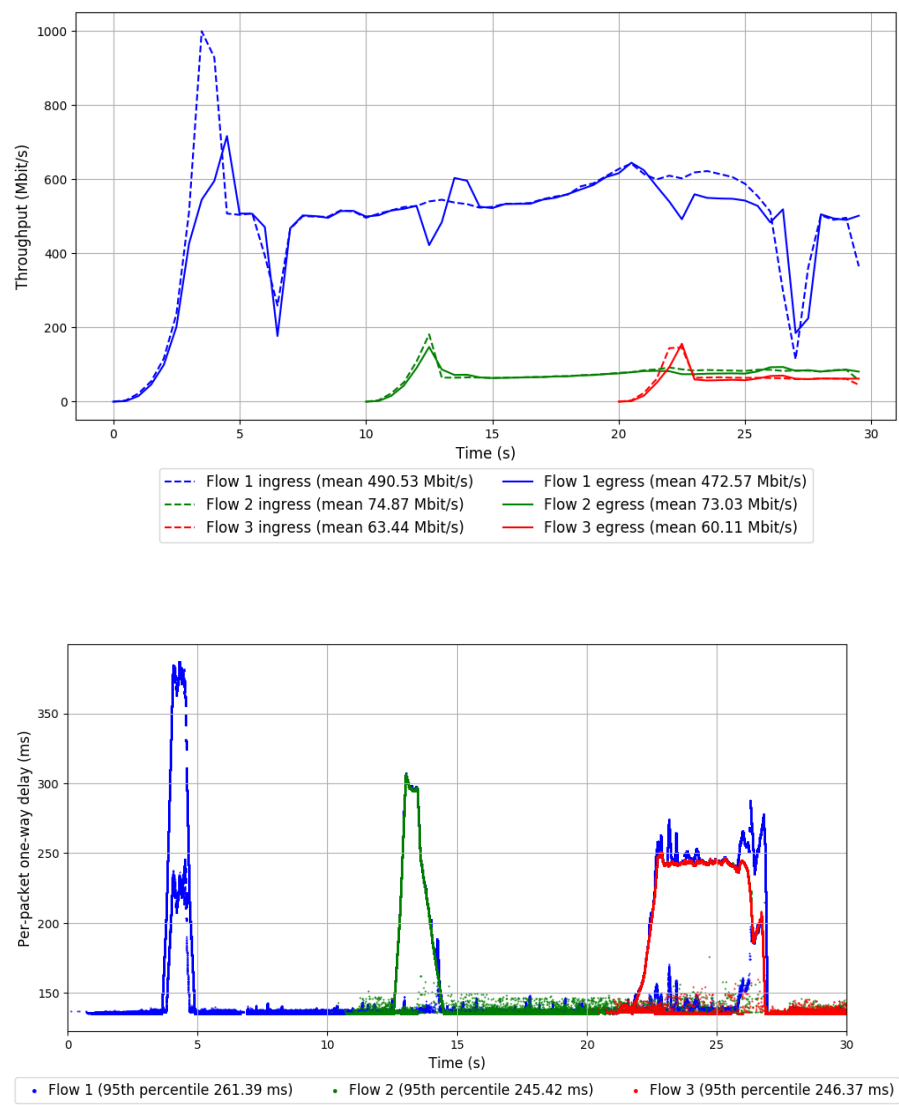
-- Flow 3:

Average throughput: 60.11 Mbit/s

95th percentile per-packet one-way delay: 246.365 ms

Loss rate: 5.26%

Run 9: Report of PCC — Data Link

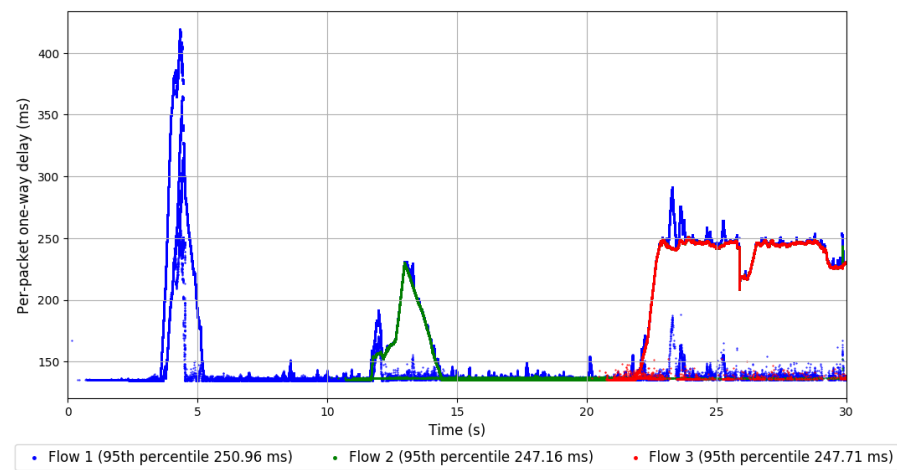
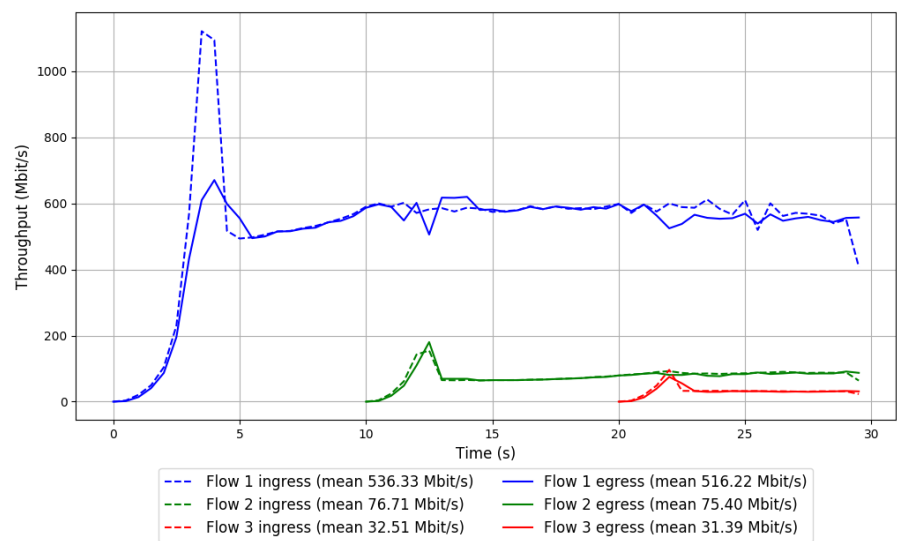


```
Run 10: Statistics of PCC

Start at: 2017-12-06 14:36:04
End at: 2017-12-06 14:36:34

# Below is generated by plot.py at 2017-12-06 15:46:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 576.73 Mbit/s
95th percentile per-packet one-way delay: 249.847 ms
Loss rate: 3.65%
-- Flow 1:
Average throughput: 516.22 Mbit/s
95th percentile per-packet one-way delay: 250.964 ms
Loss rate: 3.84%
-- Flow 2:
Average throughput: 75.40 Mbit/s
95th percentile per-packet one-way delay: 247.157 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 31.39 Mbit/s
95th percentile per-packet one-way delay: 247.707 ms
Loss rate: 3.42%
```

Run 10: Report of PCC — Data Link

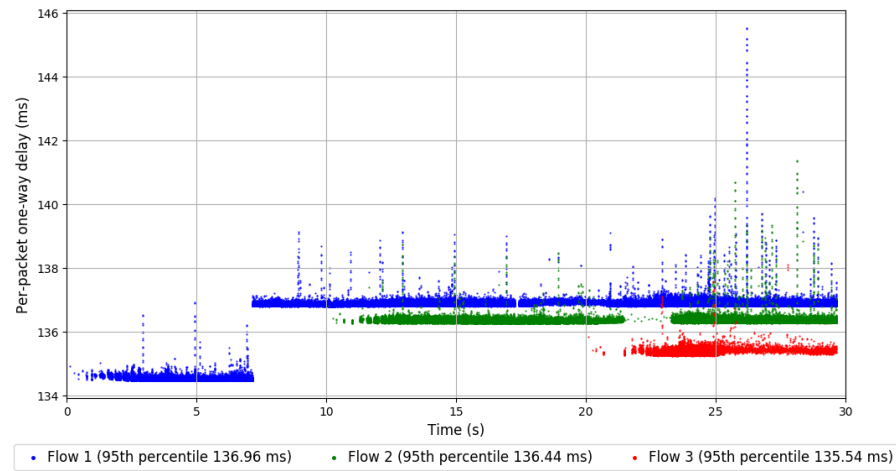
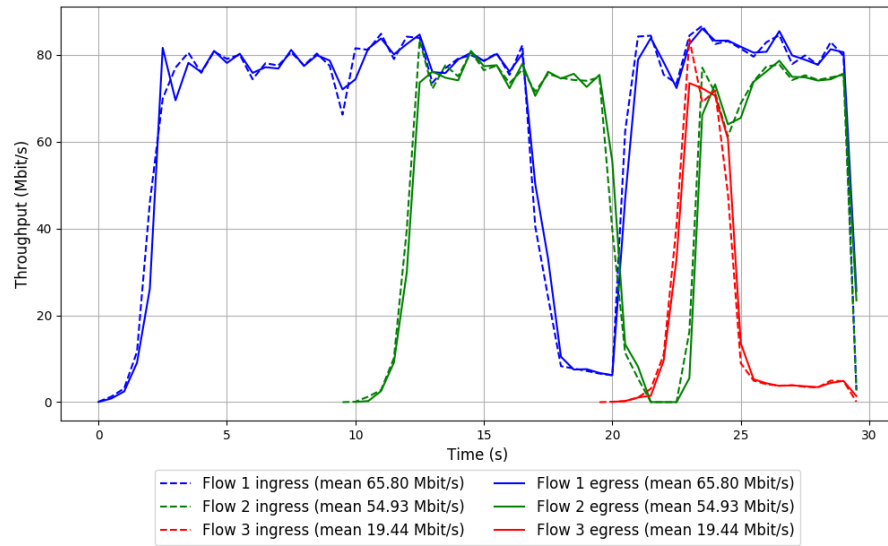


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-12-06 12:24:09
End at: 2017-12-06 12:24:39

# Below is generated by plot.py at 2017-12-06 15:46:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 108.48 Mbit/s
95th percentile per-packet one-way delay: 136.940 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 65.80 Mbit/s
95th percentile per-packet one-way delay: 136.964 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 54.93 Mbit/s
95th percentile per-packet one-way delay: 136.439 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 19.44 Mbit/s
95th percentile per-packet one-way delay: 135.541 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-12-06 12:38:04

End at: 2017-12-06 12:38:34

Below is generated by plot.py at 2017-12-06 15:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 98.04 Mbit/s

95th percentile per-packet one-way delay: 136.924 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 51.27 Mbit/s

95th percentile per-packet one-way delay: 136.370 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.69 Mbit/s

95th percentile per-packet one-way delay: 135.938 ms

Loss rate: 0.00%

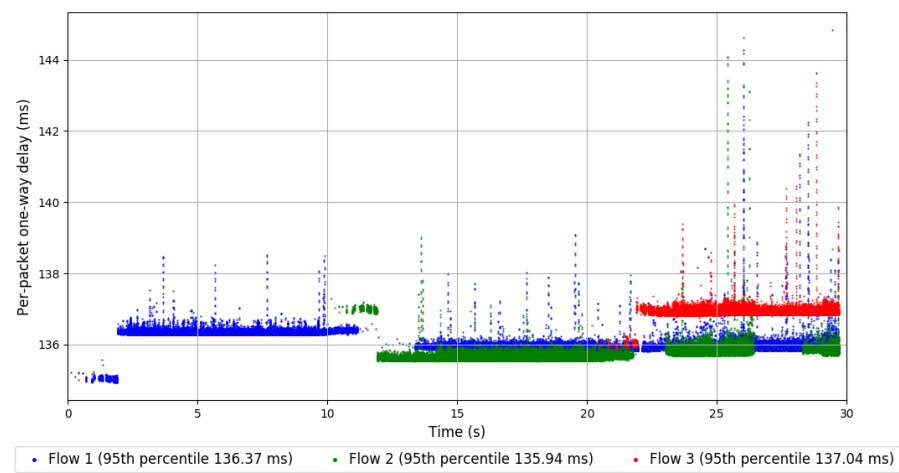
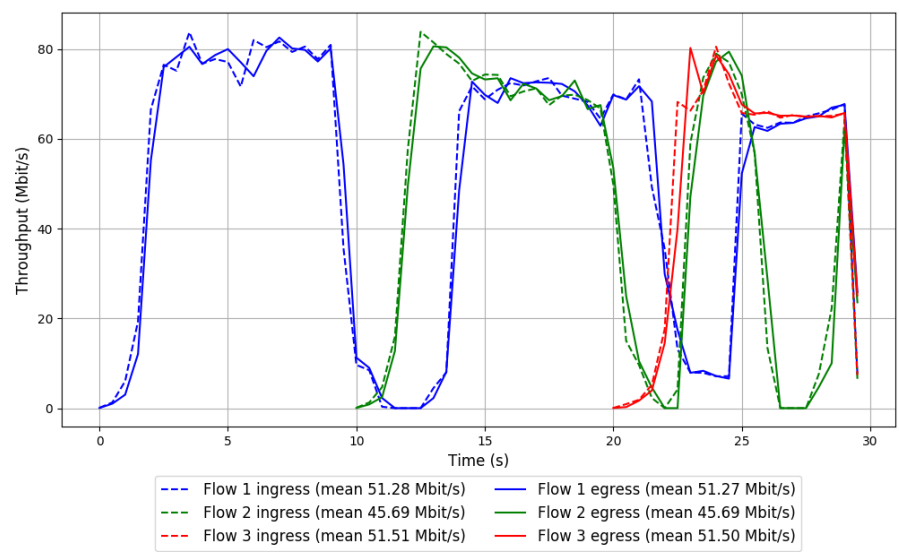
-- Flow 3:

Average throughput: 51.50 Mbit/s

95th percentile per-packet one-way delay: 137.041 ms

Loss rate: 0.01%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

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

End at: 2017-12-06 12:52:42

Below is generated by plot.py at 2017-12-06 15:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.77 Mbit/s

95th percentile per-packet one-way delay: 137.109 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 60.84 Mbit/s

95th percentile per-packet one-way delay: 137.106 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.64 Mbit/s

95th percentile per-packet one-way delay: 137.146 ms

Loss rate: 0.00%

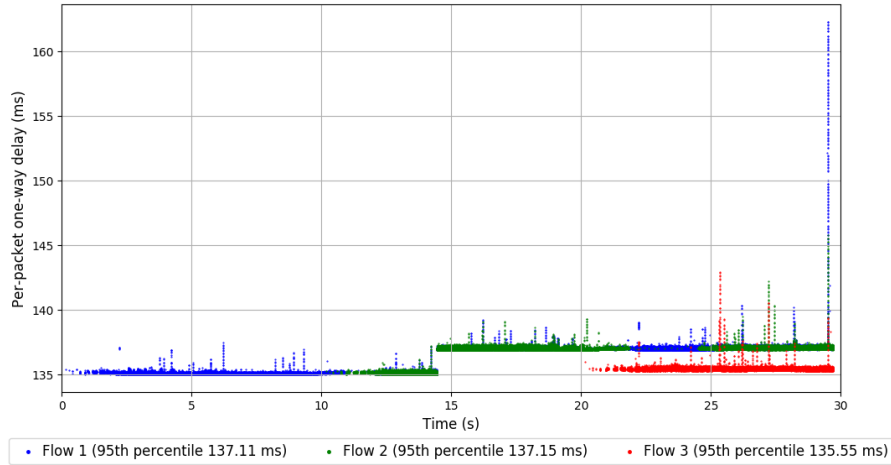
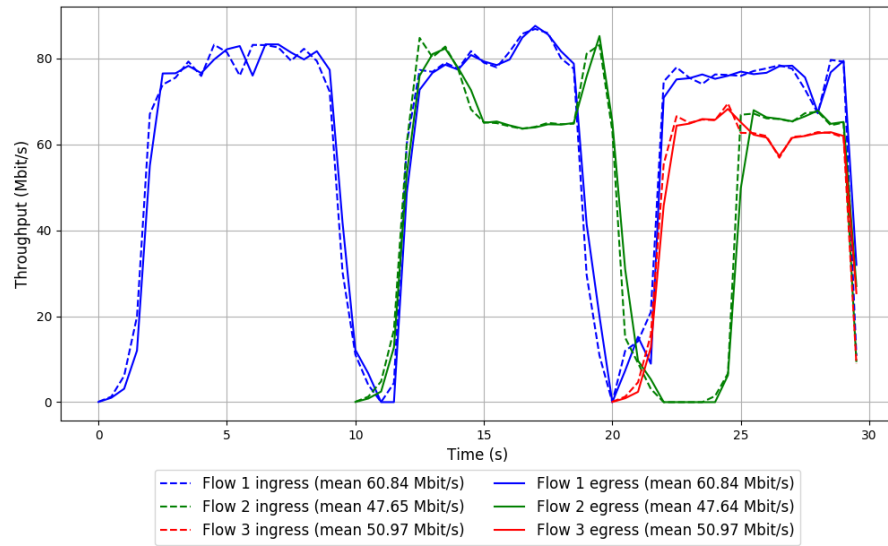
-- Flow 3:

Average throughput: 50.97 Mbit/s

95th percentile per-packet one-way delay: 135.551 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link

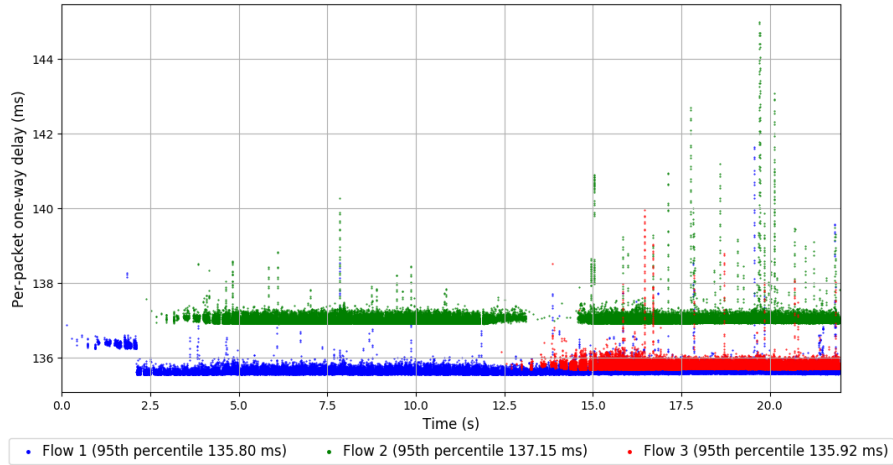
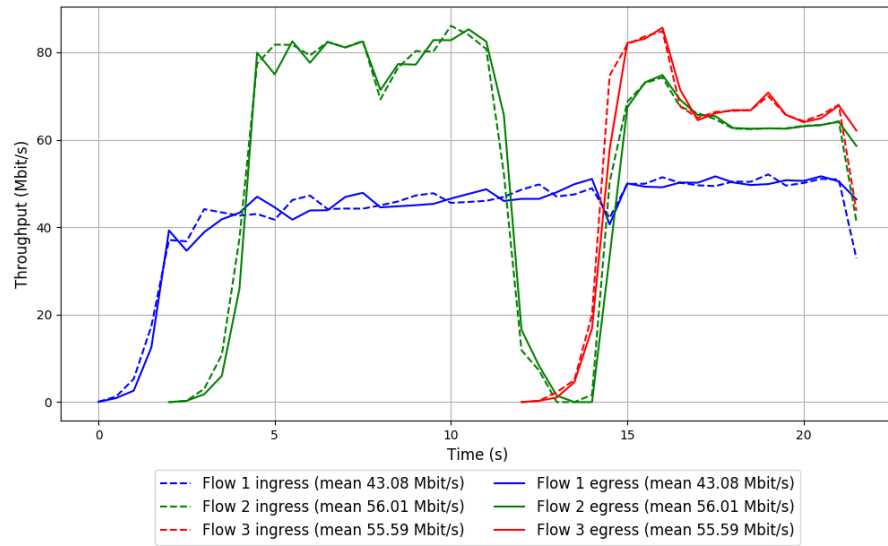


Run 4: Statistics of QUIC Cubic

Start at: 2017-12-06 13:06:27

End at: 2017-12-06 13:06:57

Run 4: Report of QUIC Cubic — Data Link

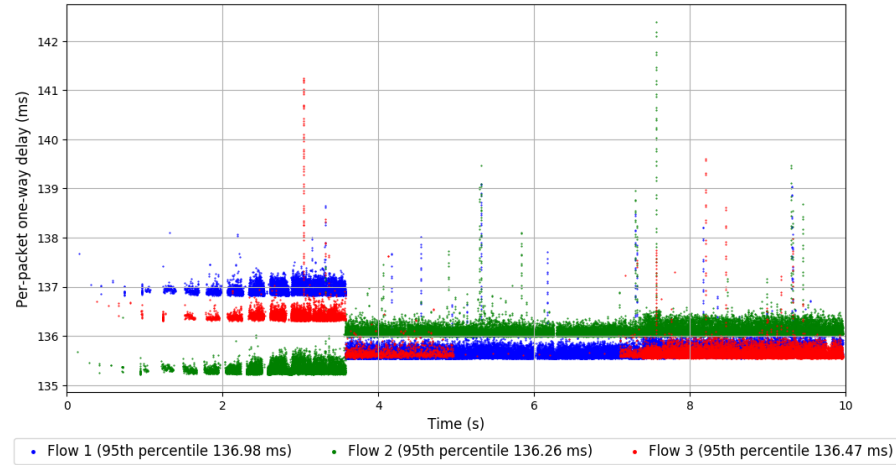
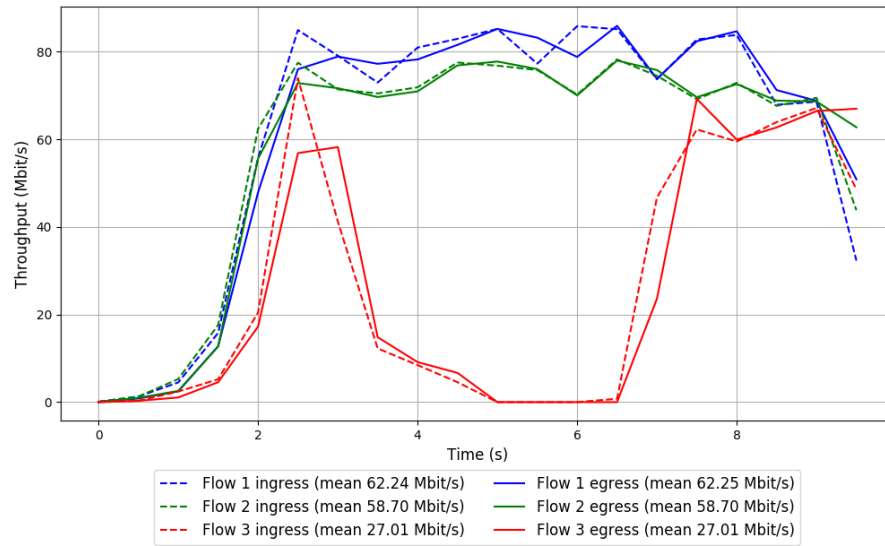


Run 5: Statistics of QUIC Cubic

Start at: 2017-12-06 13:20:43

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

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-12-06 13:34:48

End at: 2017-12-06 13:35:18

Below is generated by plot.py at 2017-12-06 15:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 103.05 Mbit/s

95th percentile per-packet one-way delay: 137.323 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 46.31 Mbit/s

95th percentile per-packet one-way delay: 136.958 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.78 Mbit/s

95th percentile per-packet one-way delay: 137.212 ms

Loss rate: 0.00%

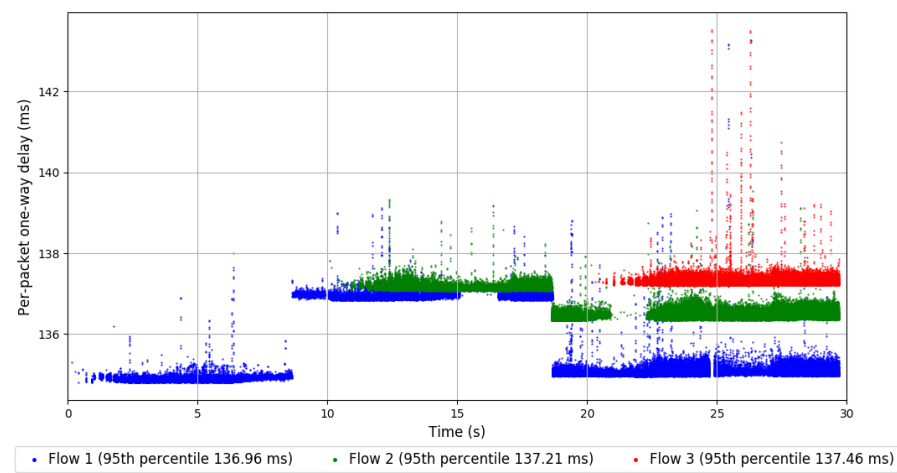
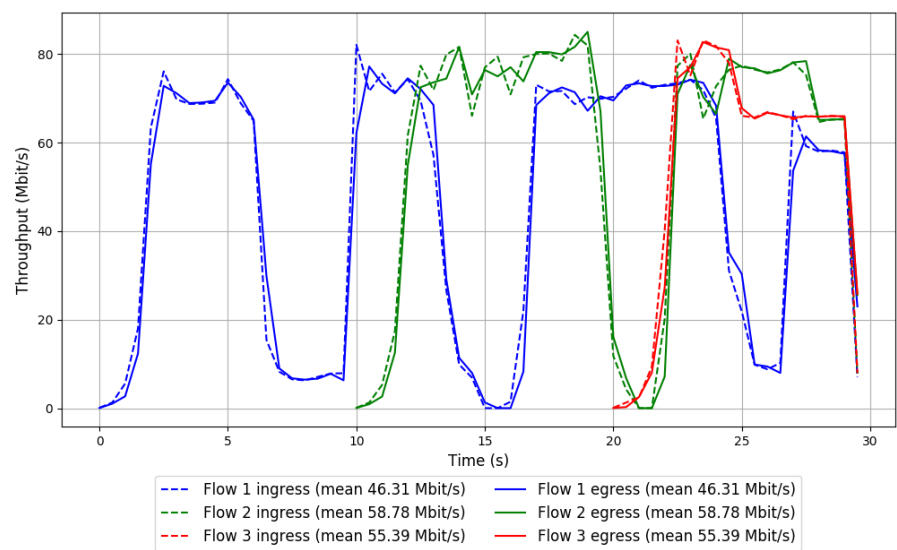
-- Flow 3:

Average throughput: 55.39 Mbit/s

95th percentile per-packet one-way delay: 137.456 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-12-06 13:48:41

End at: 2017-12-06 13:49:11

Below is generated by plot.py at 2017-12-06 15:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 106.86 Mbit/s

95th percentile per-packet one-way delay: 137.032 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 56.46 Mbit/s

95th percentile per-packet one-way delay: 137.082 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.72 Mbit/s

95th percentile per-packet one-way delay: 135.969 ms

Loss rate: 0.00%

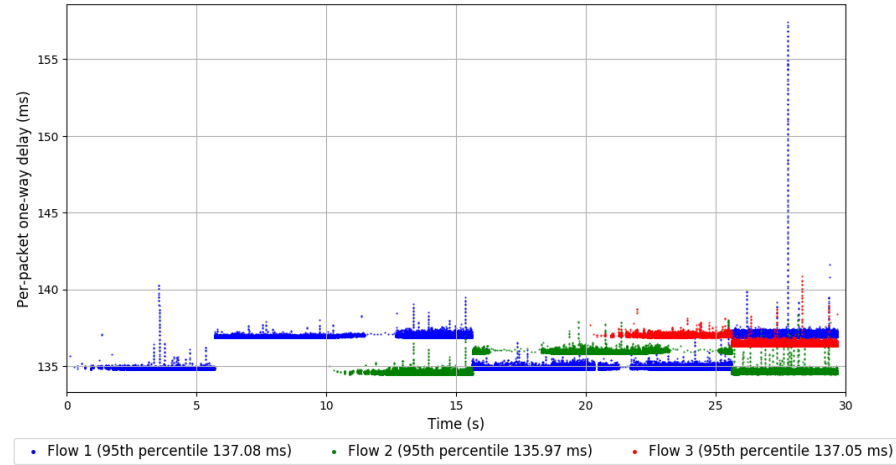
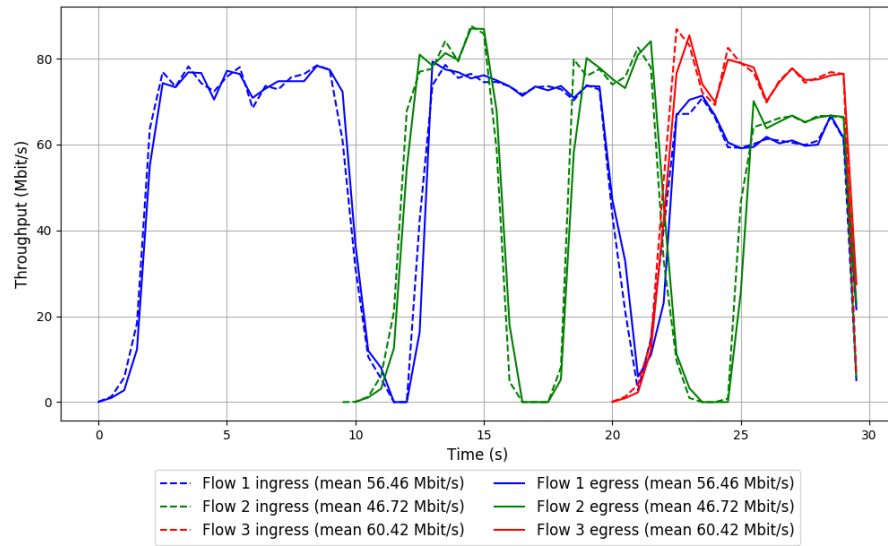
-- Flow 3:

Average throughput: 60.42 Mbit/s

95th percentile per-packet one-way delay: 137.050 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-12-06 14:02:23

End at: 2017-12-06 14:02:53

Below is generated by plot.py at 2017-12-06 15:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 102.54 Mbit/s

95th percentile per-packet one-way delay: 137.025 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.13 Mbit/s

95th percentile per-packet one-way delay: 137.056 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 55.17 Mbit/s

95th percentile per-packet one-way delay: 137.003 ms

Loss rate: 0.00%

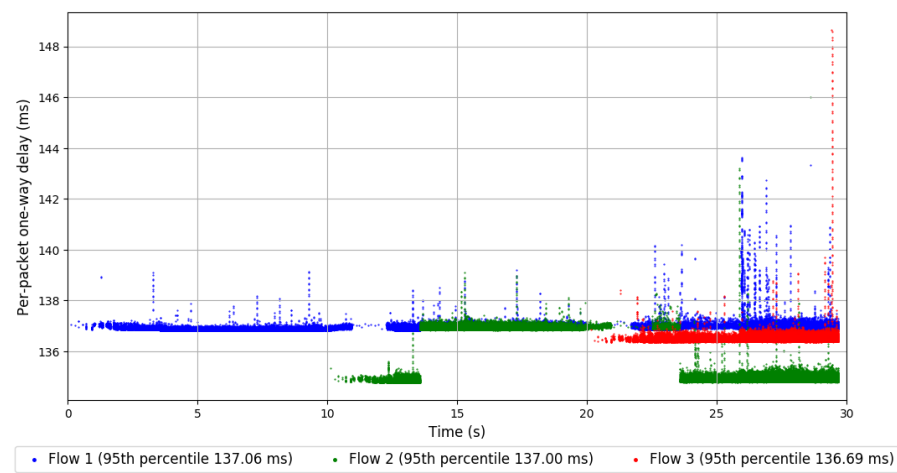
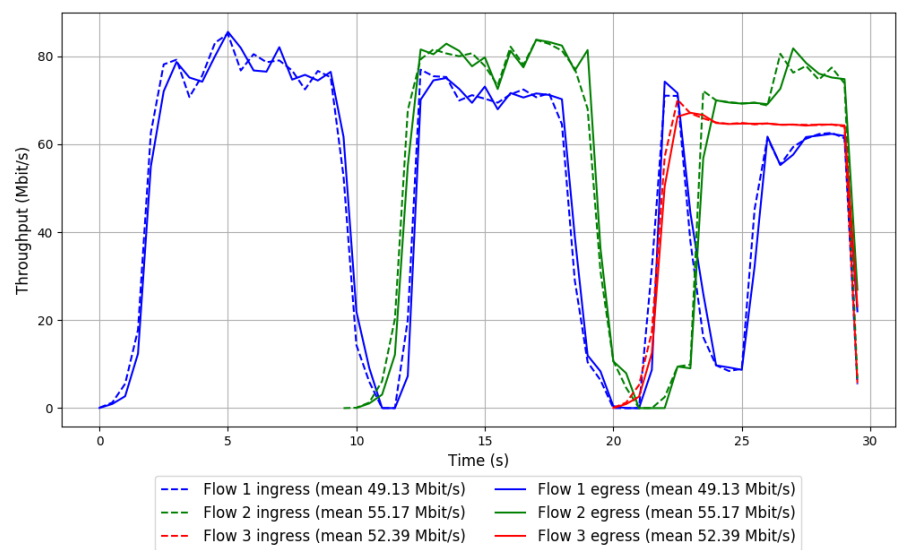
-- Flow 3:

Average throughput: 52.39 Mbit/s

95th percentile per-packet one-way delay: 136.695 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-12-06 14:16:20

End at: 2017-12-06 14:16:50

Below is generated by plot.py at 2017-12-06 15:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.87 Mbit/s

95th percentile per-packet one-way delay: 136.980 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 45.12 Mbit/s

95th percentile per-packet one-way delay: 136.975 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 55.45 Mbit/s

95th percentile per-packet one-way delay: 136.526 ms

Loss rate: 0.00%

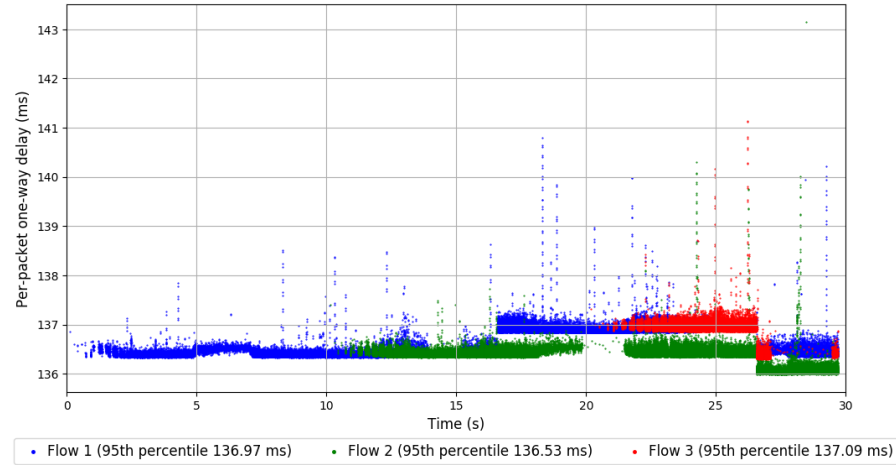
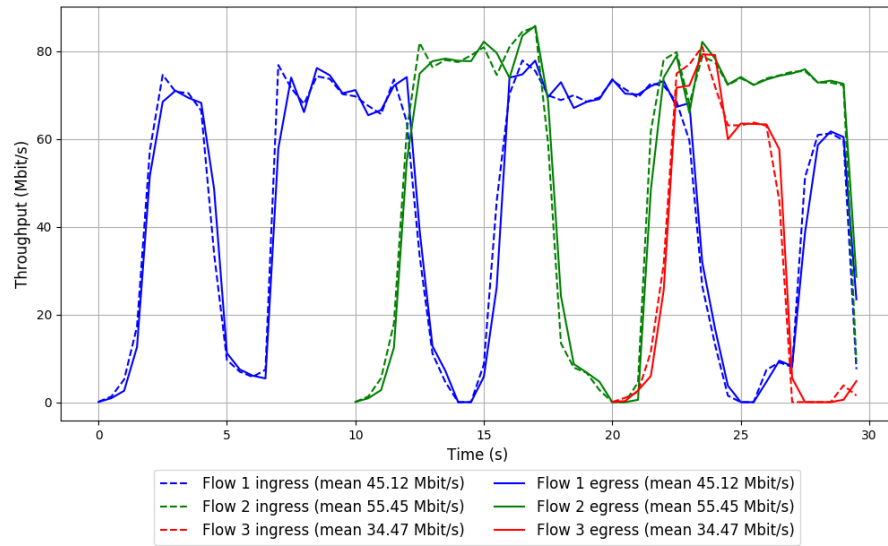
-- Flow 3:

Average throughput: 34.47 Mbit/s

95th percentile per-packet one-way delay: 137.095 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-12-06 14:30:11

End at: 2017-12-06 14:30:41

Below is generated by plot.py at 2017-12-06 15:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 105.49 Mbit/s

95th percentile per-packet one-way delay: 136.548 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.59 Mbit/s

95th percentile per-packet one-way delay: 136.597 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.61 Mbit/s

95th percentile per-packet one-way delay: 136.377 ms

Loss rate: 0.00%

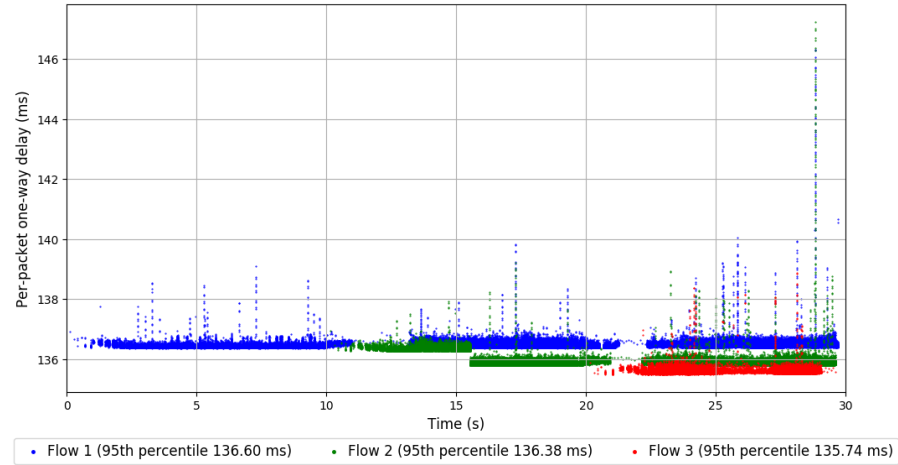
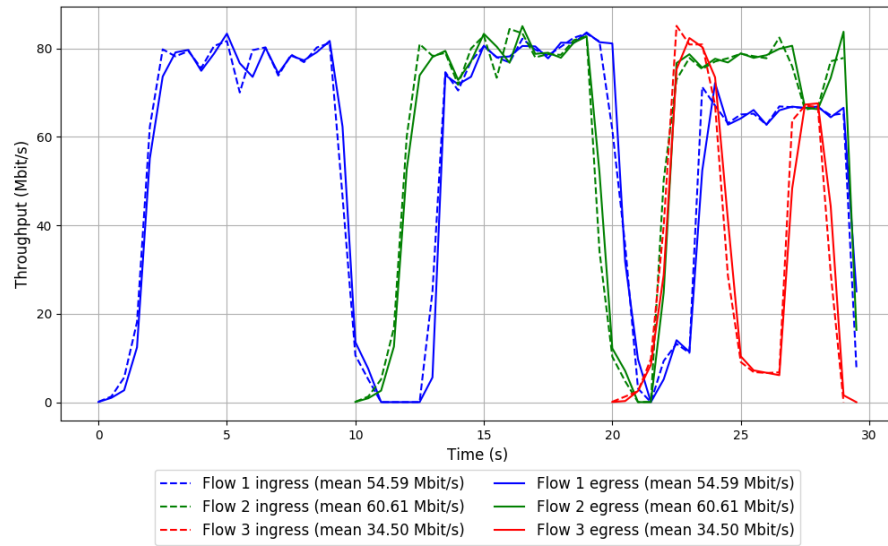
-- Flow 3:

Average throughput: 34.50 Mbit/s

95th percentile per-packet one-way delay: 135.742 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

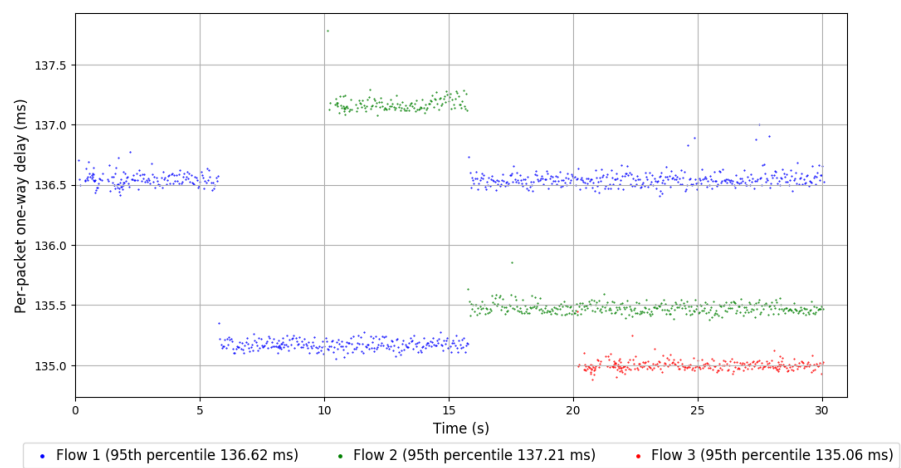
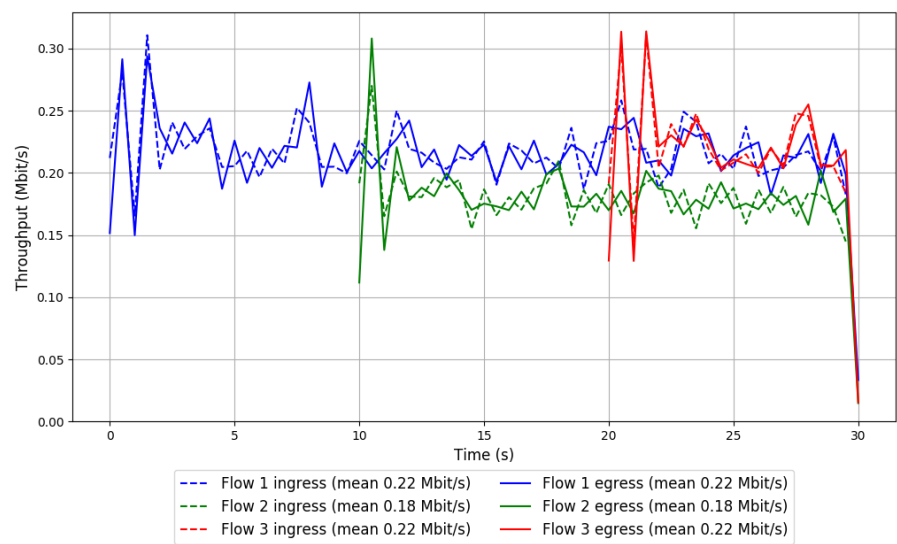


```
Run 1: Statistics of SCReAM

Start at: 2017-12-06 12:22:31
End at: 2017-12-06 12:23:01

# Below is generated by plot.py at 2017-12-06 15:46:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 137.156 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.618 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 137.214 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.061 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

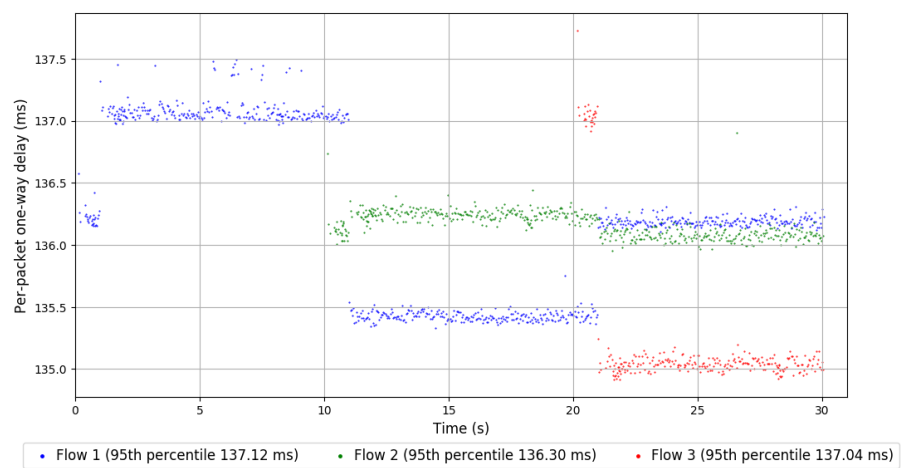
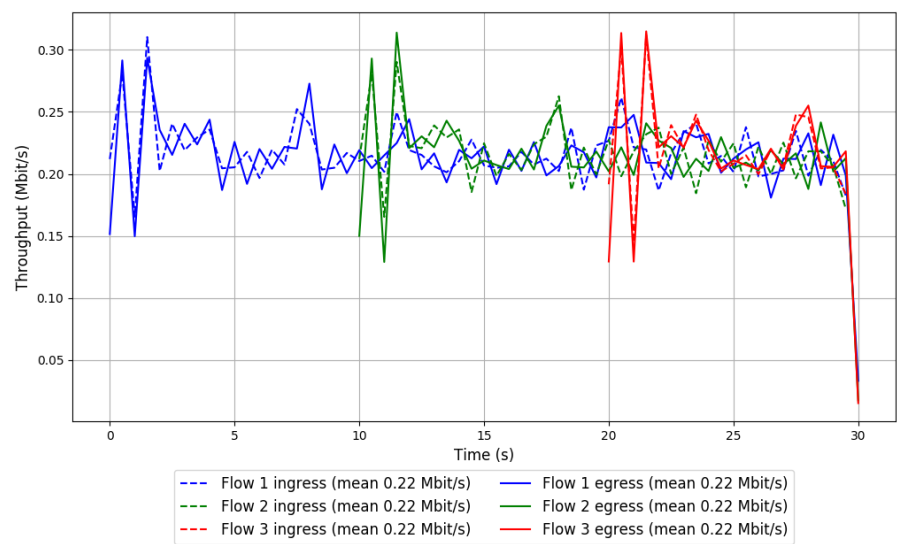


```
Run 2: Statistics of SReAM

Start at: 2017-12-06 12:36:26
End at: 2017-12-06 12:36:56

# Below is generated by plot.py at 2017-12-06 15:46:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.089 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.119 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.299 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.037 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-12-06 12:50:35

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

Below is generated by plot.py at 2017-12-06 15:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 137.314 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.543 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.338 ms

Loss rate: 0.00%

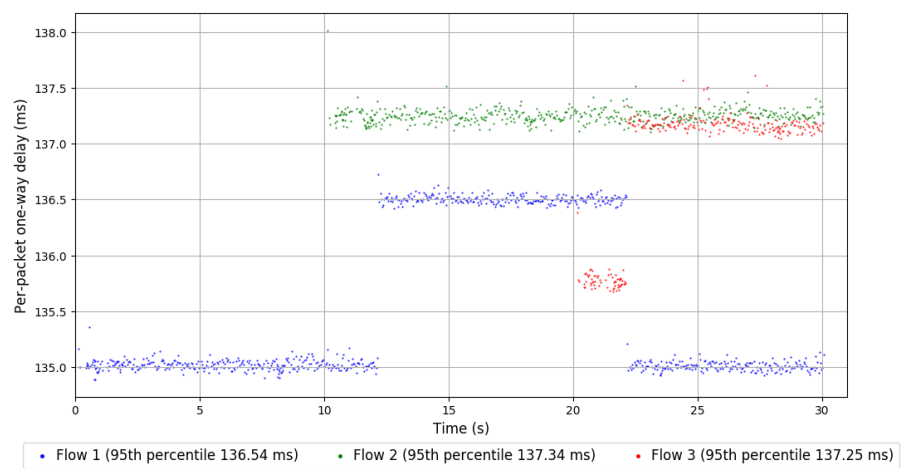
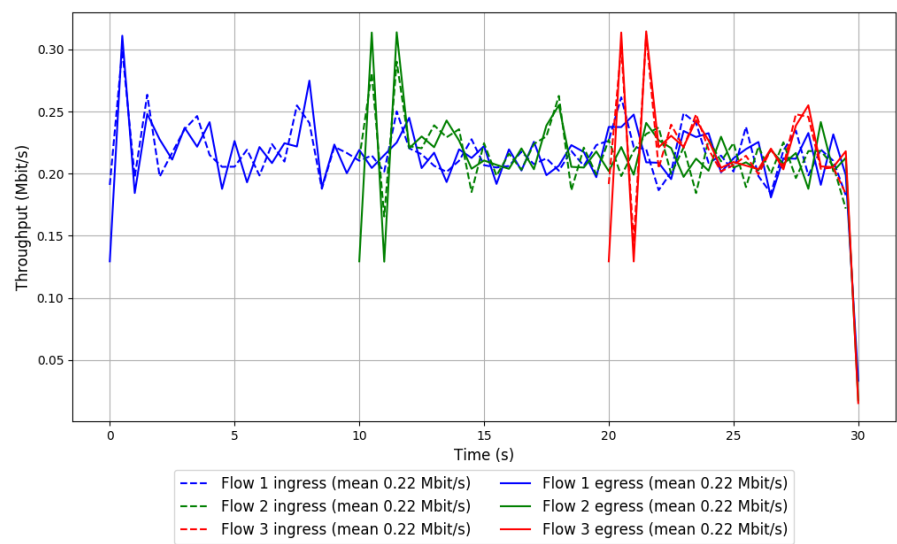
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.251 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2017-12-06 13:04:49

End at: 2017-12-06 13:05:19

Below is generated by plot.py at 2017-12-06 15:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 137.227 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.949 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.262 ms

Loss rate: 0.00%

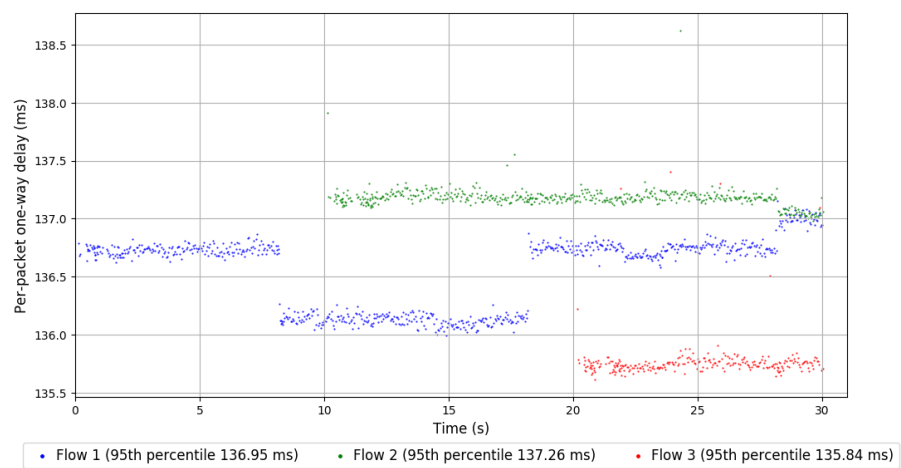
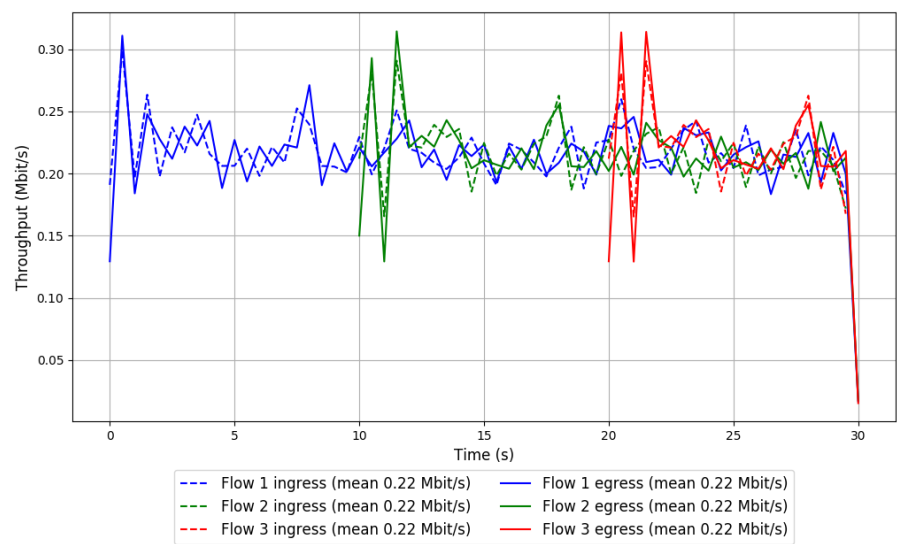
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.843 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2017-12-06 13:19:05

End at: 2017-12-06 13:19:35

Below is generated by plot.py at 2017-12-06 15:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 136.569 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.518 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.814 ms

Loss rate: 0.00%

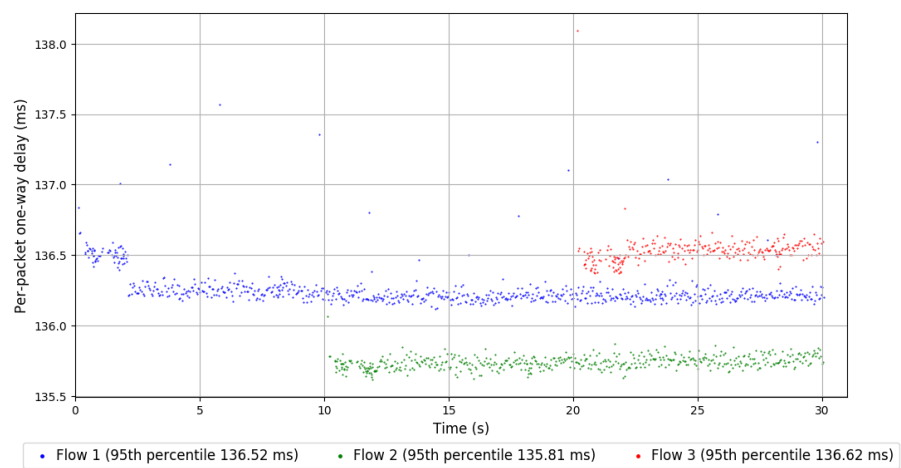
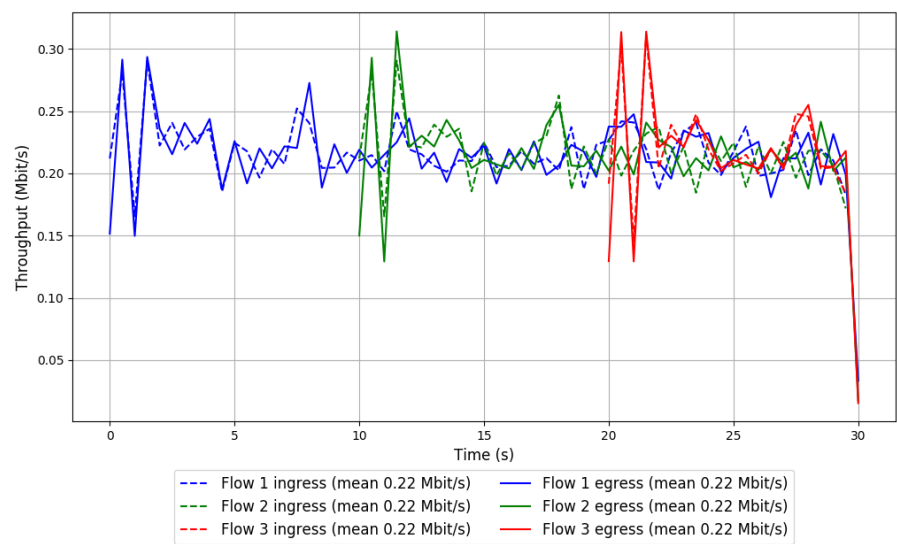
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.618 ms

Loss rate: 0.00%

Run 5: Report of SCReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-12-06 13:33:10

End at: 2017-12-06 13:33:40

Below is generated by plot.py at 2017-12-06 15:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 137.132 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.125 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.676 ms

Loss rate: 0.00%

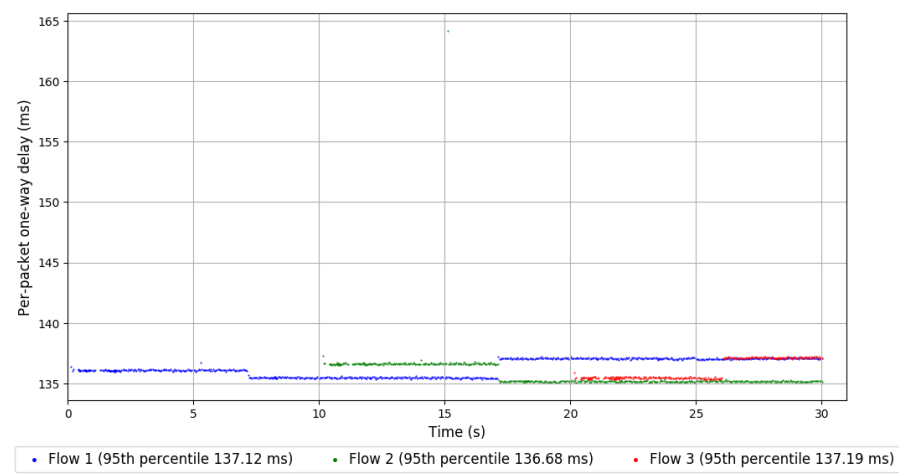
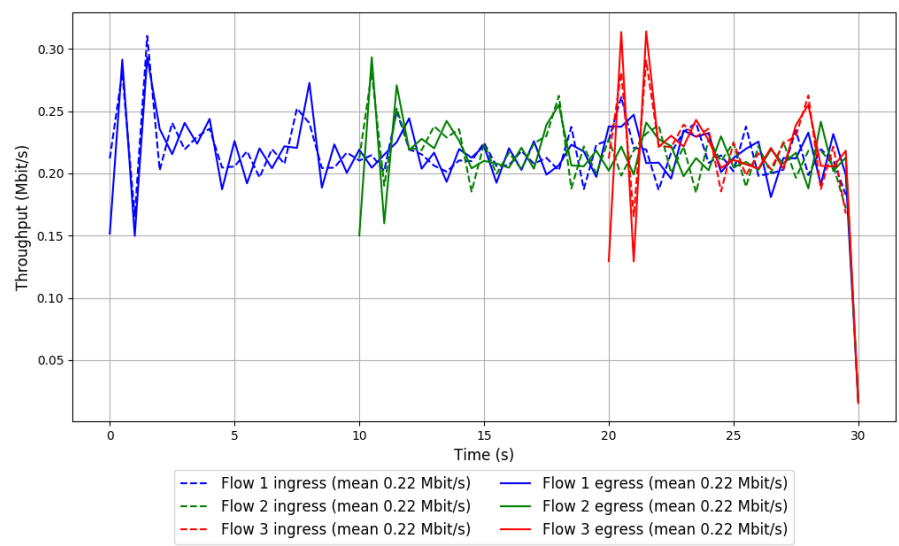
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.187 ms

Loss rate: 0.00%

Run 6: Report of SCReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2017-12-06 13:47:03

End at: 2017-12-06 13:47:33

Below is generated by plot.py at 2017-12-06 15:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 137.202 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.233 ms

Loss rate: 0.00%

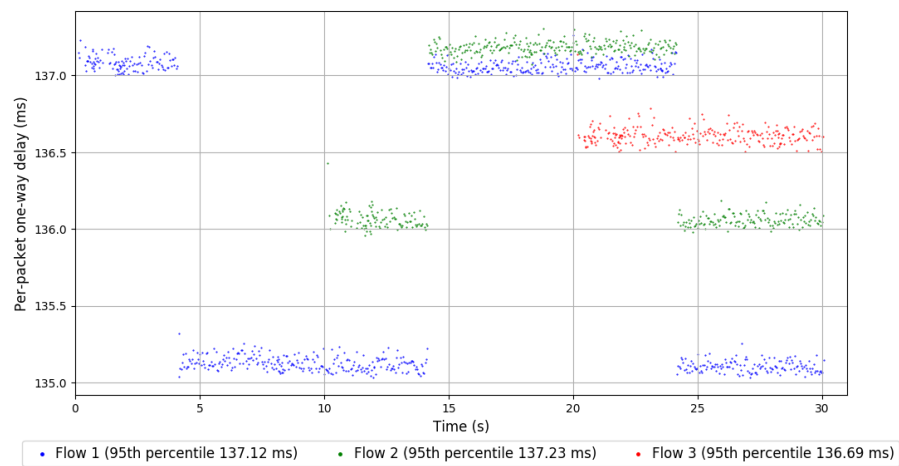
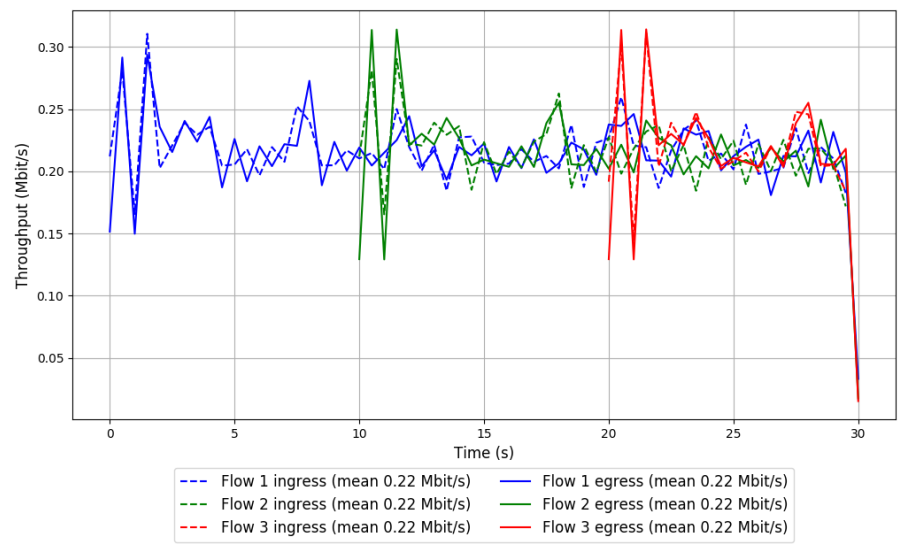
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.692 ms

Loss rate: 0.00%

Run 7: Report of SCRaM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-12-06 14:00:44

End at: 2017-12-06 14:01:14

Below is generated by plot.py at 2017-12-06 15:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 137.279 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.212 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.420 ms

Loss rate: 0.00%

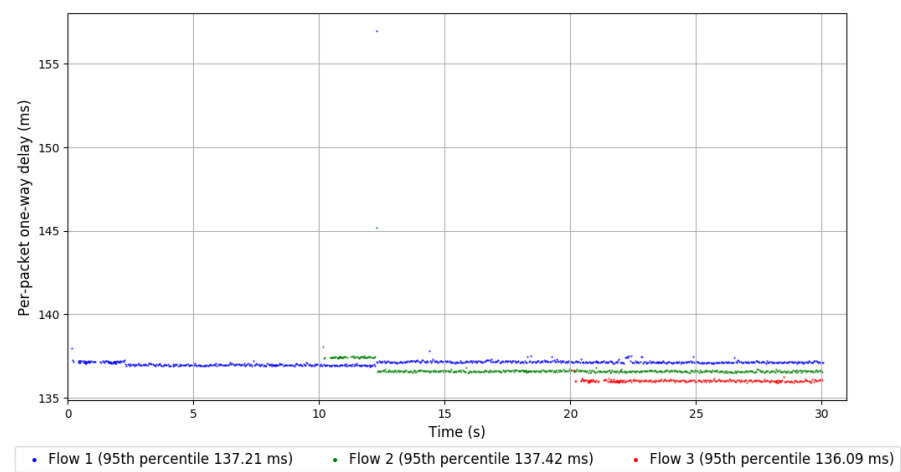
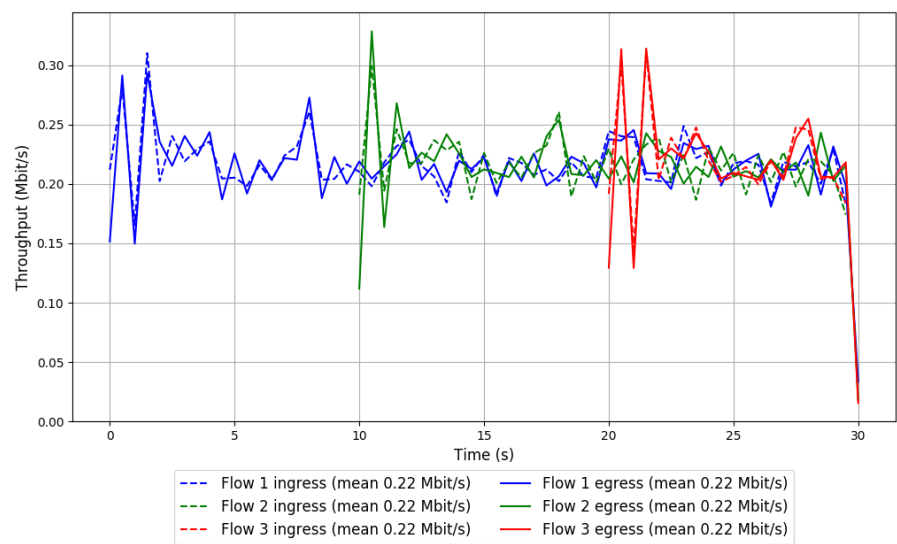
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.087 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2017-12-06 14:14:42

End at: 2017-12-06 14:15:12

Below is generated by plot.py at 2017-12-06 15:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 137.178 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.778 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.234 ms

Loss rate: 0.00%

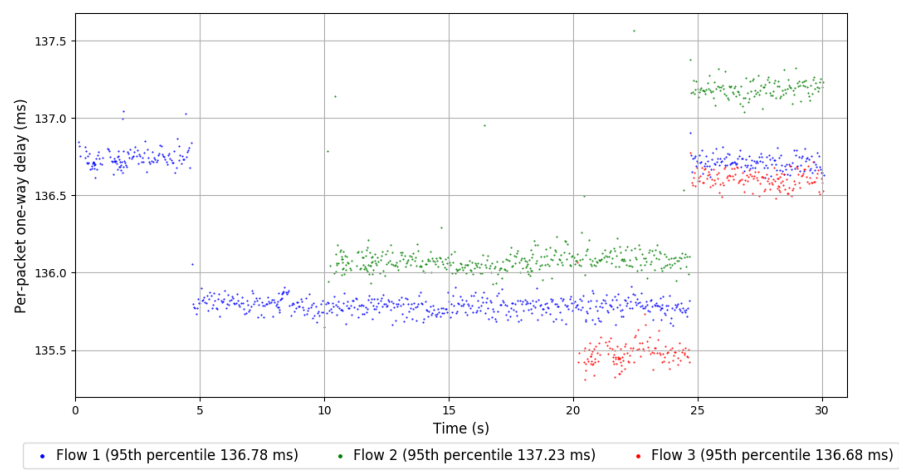
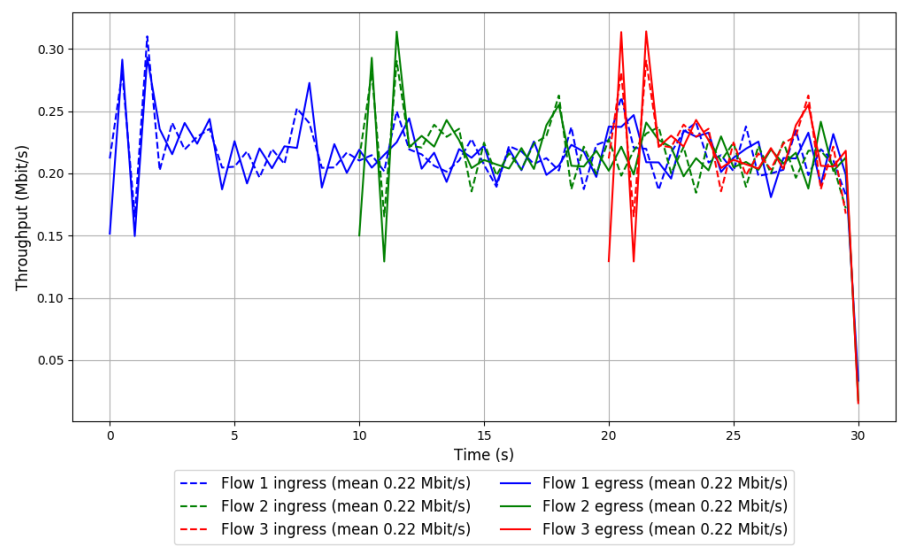
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.675 ms

Loss rate: 0.00%

Run 9: Report of SCReAM — Data Link

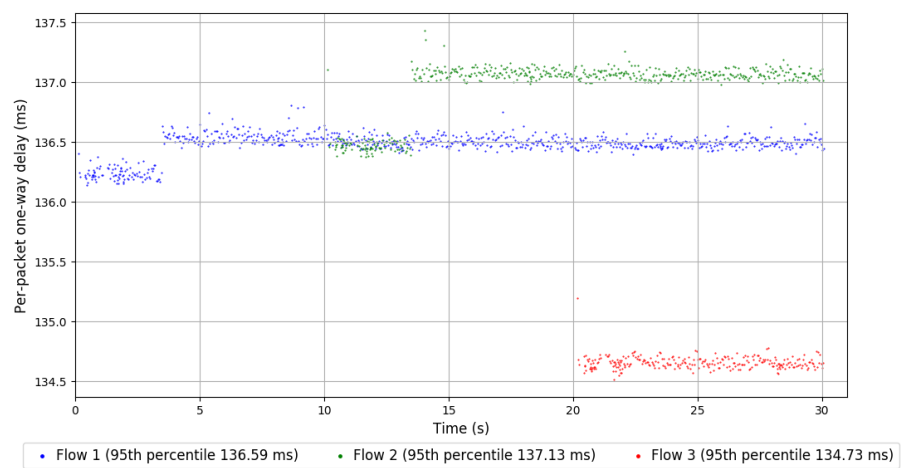
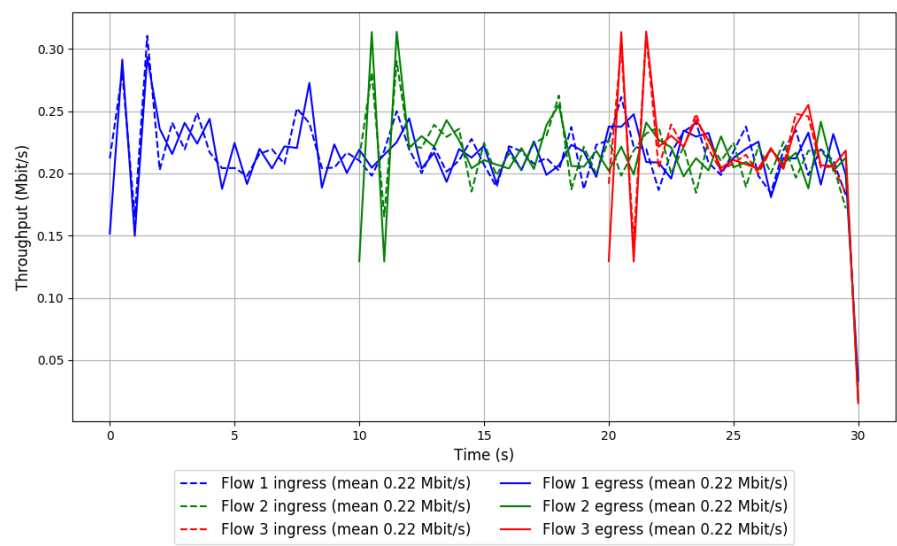


```
Run 10: Statistics of SReAM

Start at: 2017-12-06 14:28:33
End at: 2017-12-06 14:29:03

# Below is generated by plot.py at 2017-12-06 15:46:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.110 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.593 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.135 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 134.734 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link

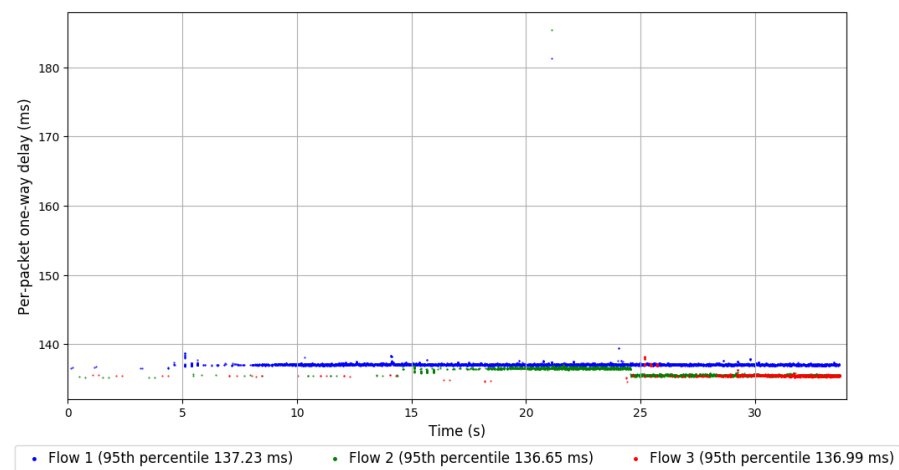
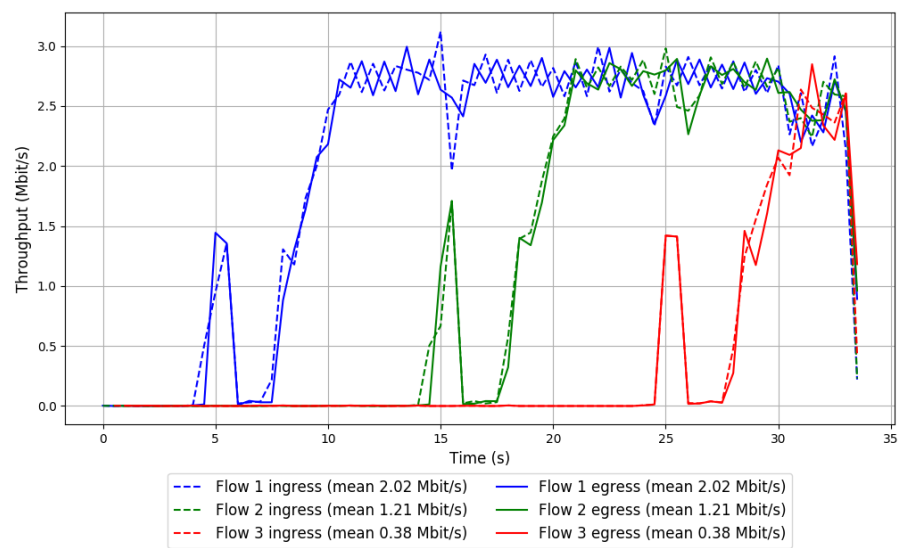


```
Run 1: Statistics of WebRTC media

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

# Below is generated by plot.py at 2017-12-06 15:46:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.59 Mbit/s
95th percentile per-packet one-way delay: 137.196 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 137.233 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 136.648 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 136.990 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-12-06 12:42:13

End at: 2017-12-06 12:42:43

Below is generated by plot.py at 2017-12-06 15:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.53 Mbit/s

95th percentile per-packet one-way delay: 137.165 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 137.206 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 135.675 ms

Loss rate: 0.00%

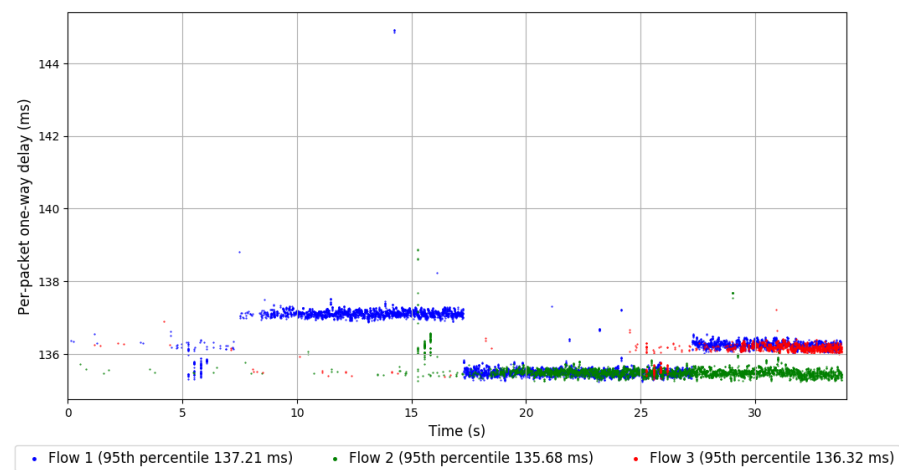
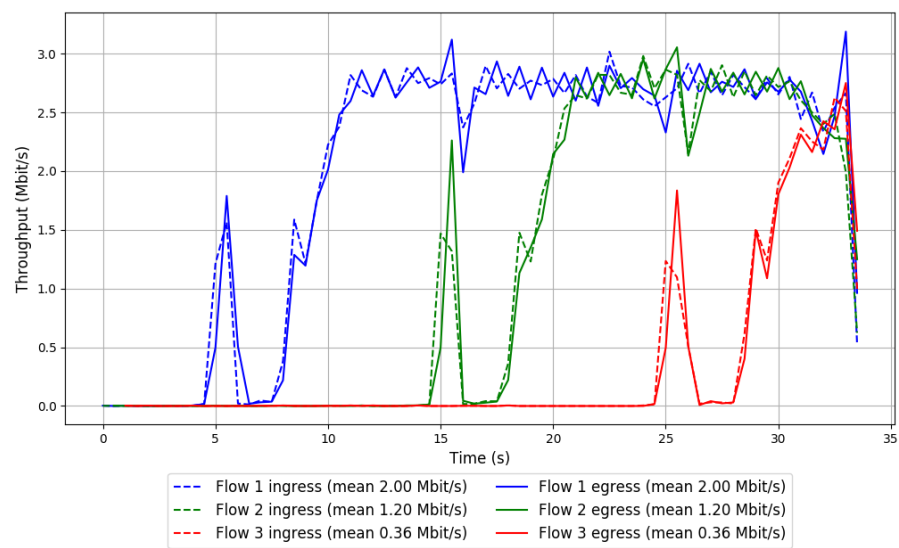
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 136.322 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

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

End at: 2017-12-06 12:56:49

Below is generated by plot.py at 2017-12-06 15:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.55 Mbit/s

95th percentile per-packet one-way delay: 137.067 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 137.095 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 136.356 ms

Loss rate: 0.00%

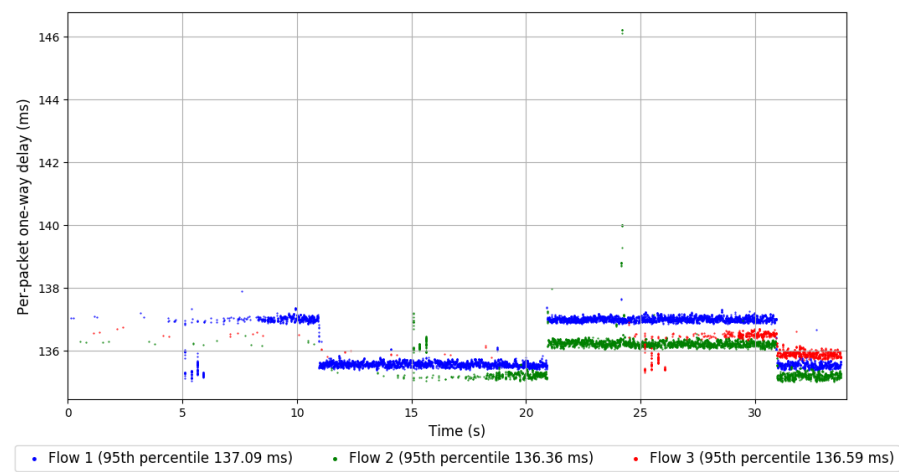
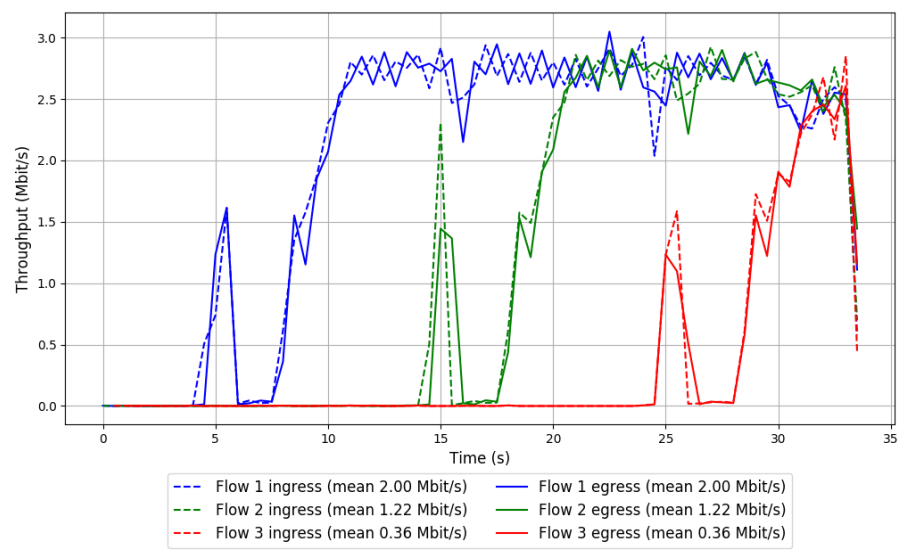
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 136.588 ms

Loss rate: 0.08%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-12-06 13:10:42

End at: 2017-12-06 13:11:12

Below is generated by plot.py at 2017-12-06 15:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.56 Mbit/s

95th percentile per-packet one-way delay: 136.691 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 136.615 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.19 Mbit/s

95th percentile per-packet one-way delay: 136.235 ms

Loss rate: 0.00%

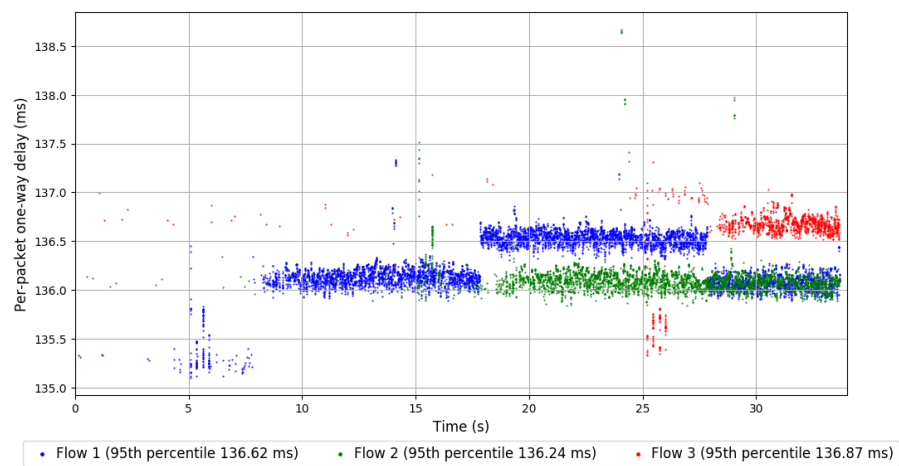
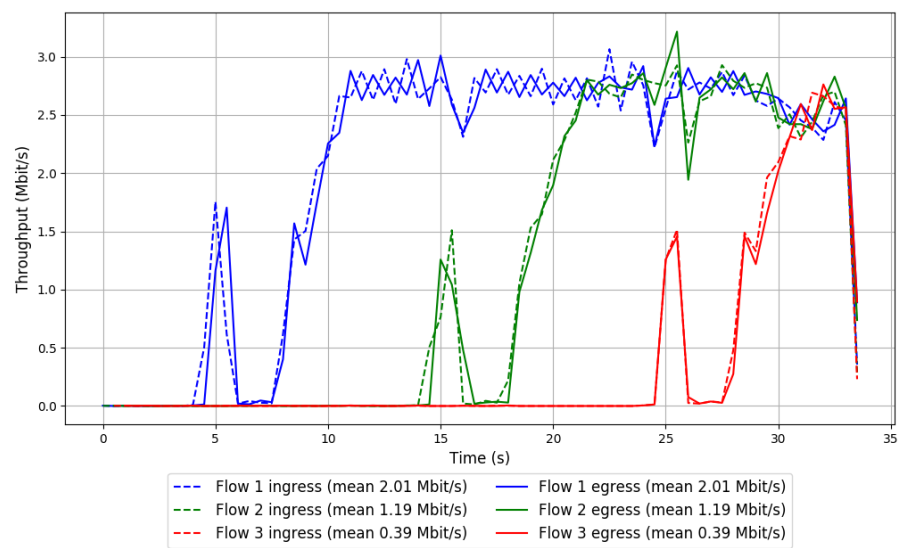
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.870 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-12-06 13:24:45

End at: 2017-12-06 13:25:15

Below is generated by plot.py at 2017-12-06 15:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.59 Mbit/s

95th percentile per-packet one-way delay: 136.584 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 136.191 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 136.658 ms

Loss rate: 0.00%

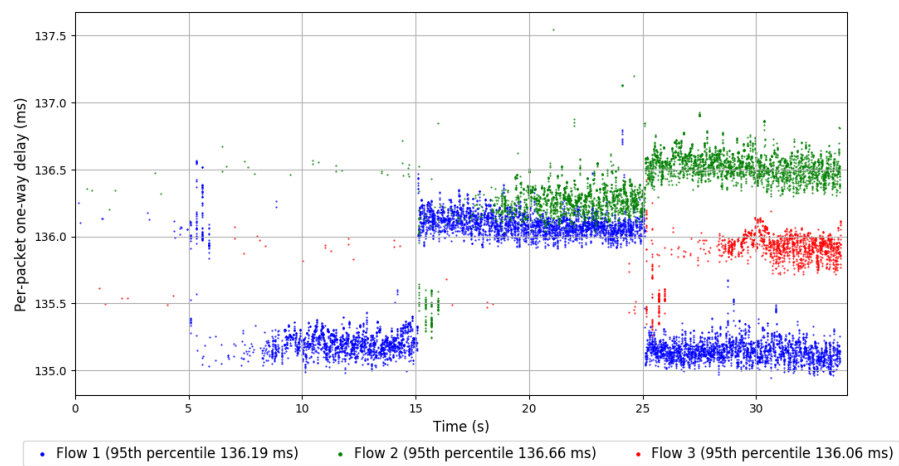
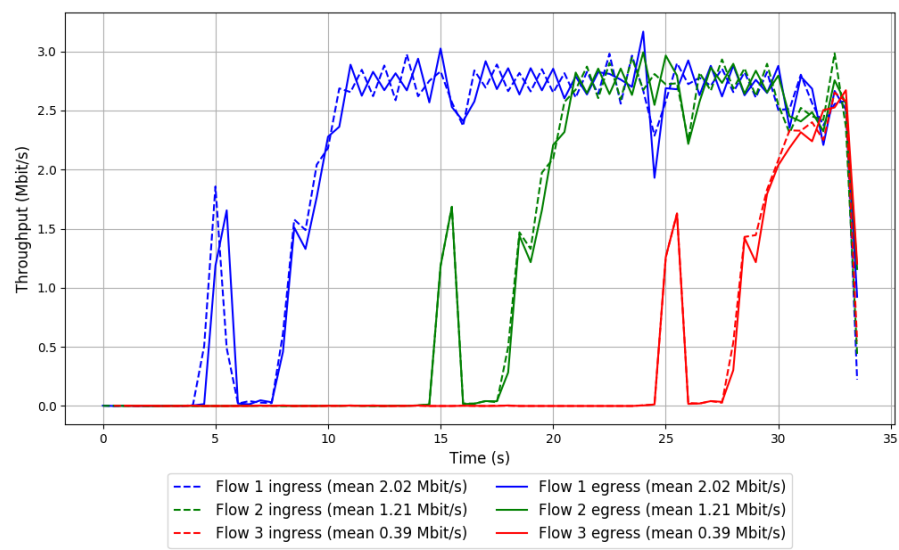
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.058 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-12-06 13:38:45

End at: 2017-12-06 13:39:15

Below is generated by plot.py at 2017-12-06 15:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.57 Mbit/s

95th percentile per-packet one-way delay: 137.487 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 137.519 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 135.373 ms

Loss rate: 0.00%

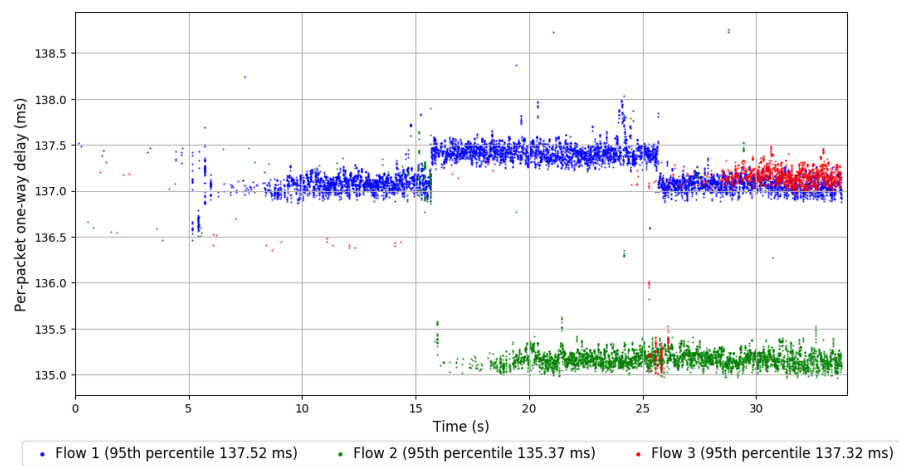
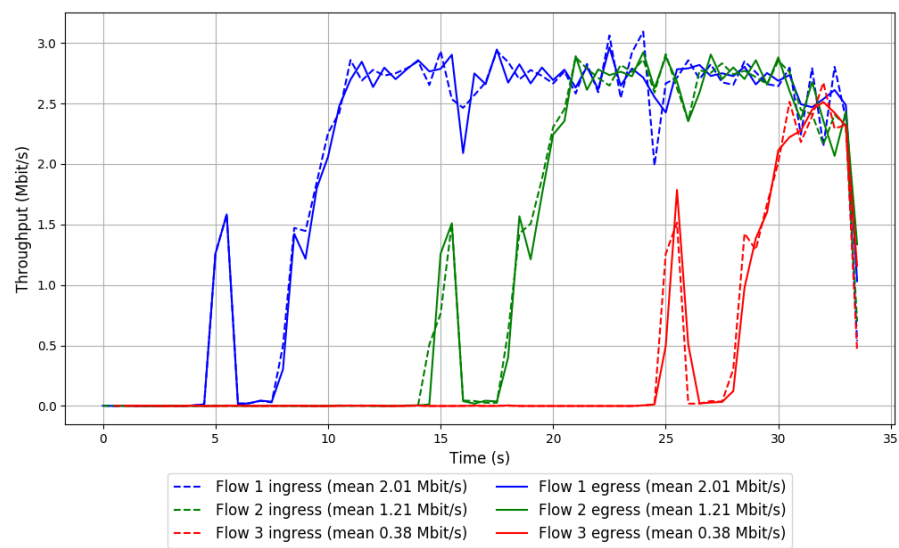
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 137.320 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-12-06 13:52:25

End at: 2017-12-06 13:52:55

Below is generated by plot.py at 2017-12-06 15:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.57 Mbit/s

95th percentile per-packet one-way delay: 137.233 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 137.255 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 137.122 ms

Loss rate: 0.09%

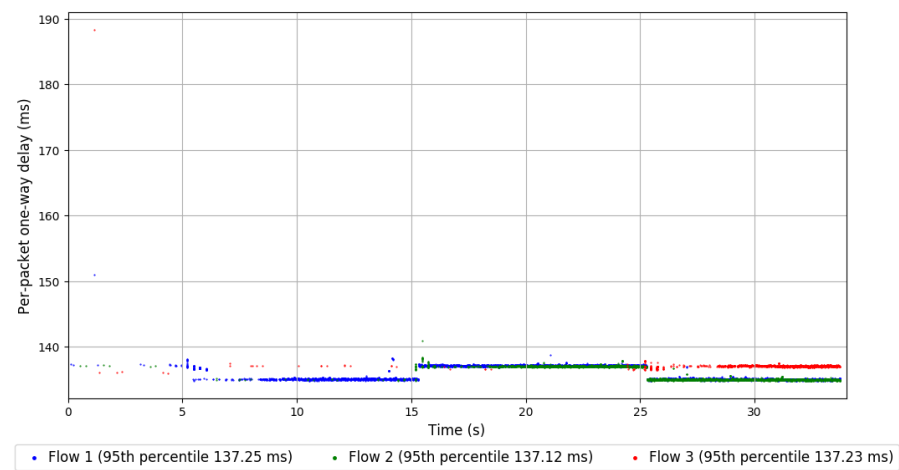
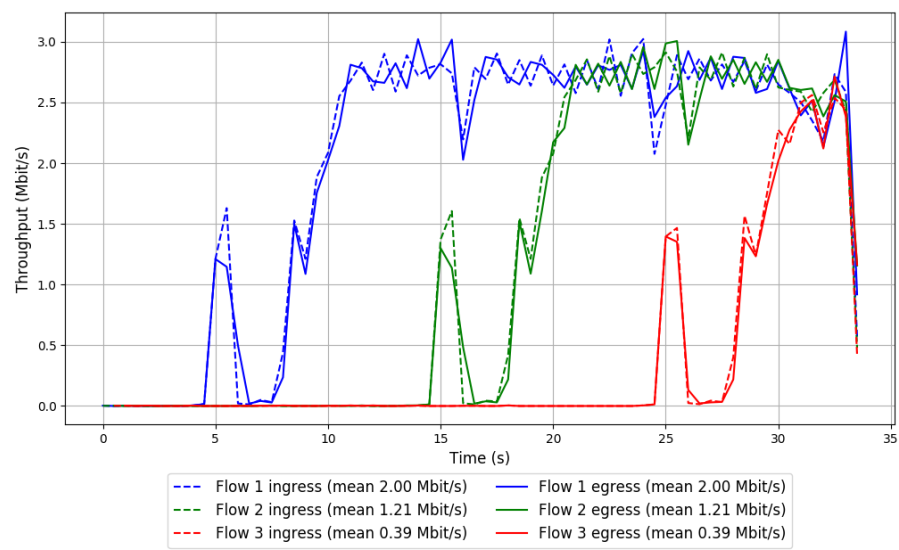
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 137.227 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-12-06 14:06:16

End at: 2017-12-06 14:06:46

Below is generated by plot.py at 2017-12-06 15:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.46 Mbit/s

95th percentile per-packet one-way delay: 137.199 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 137.225 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 1.17 Mbit/s

95th percentile per-packet one-way delay: 135.928 ms

Loss rate: 0.00%

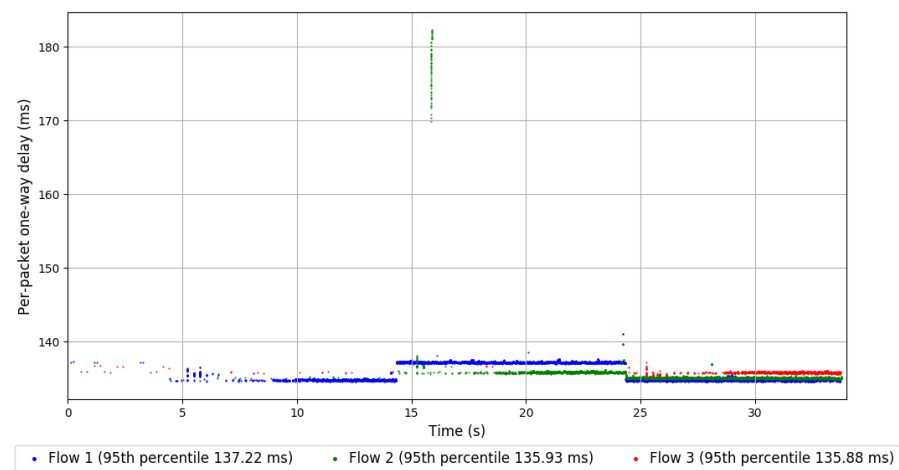
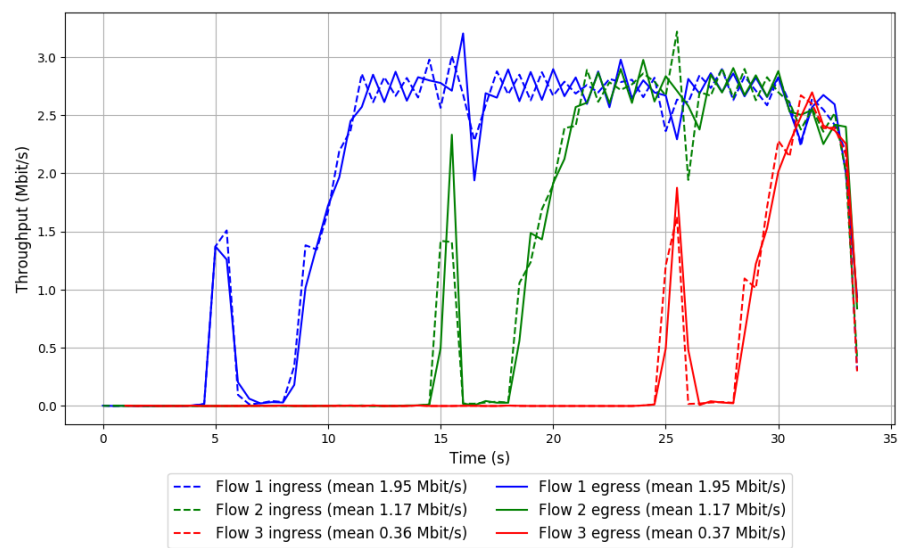
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 135.884 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-12-06 14:20:11

End at: 2017-12-06 14:20:41

Below is generated by plot.py at 2017-12-06 15:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.56 Mbit/s

95th percentile per-packet one-way delay: 137.159 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 136.571 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 137.251 ms

Loss rate: 0.00%

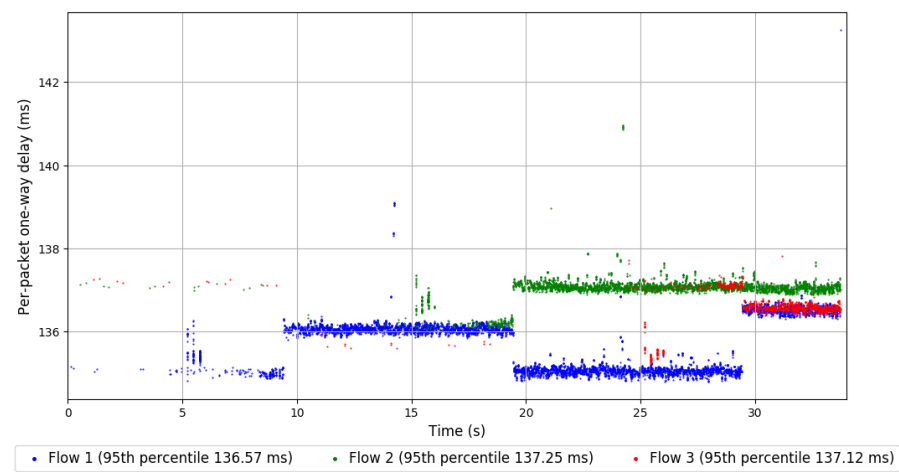
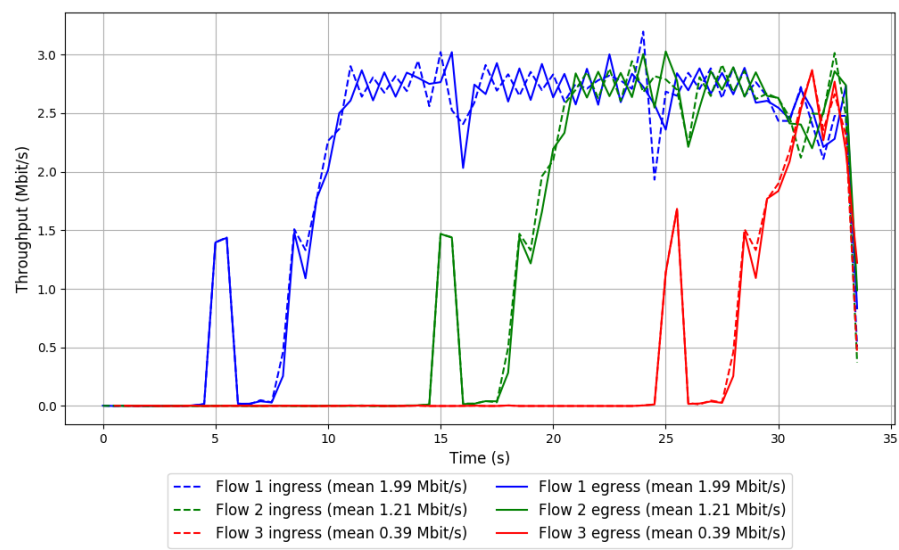
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 137.117 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-12-06 14:34:16

End at: 2017-12-06 14:34:46

Below is generated by plot.py at 2017-12-06 15:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.57 Mbit/s

95th percentile per-packet one-way delay: 137.096 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 134.844 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 135.215 ms

Loss rate: 0.00%

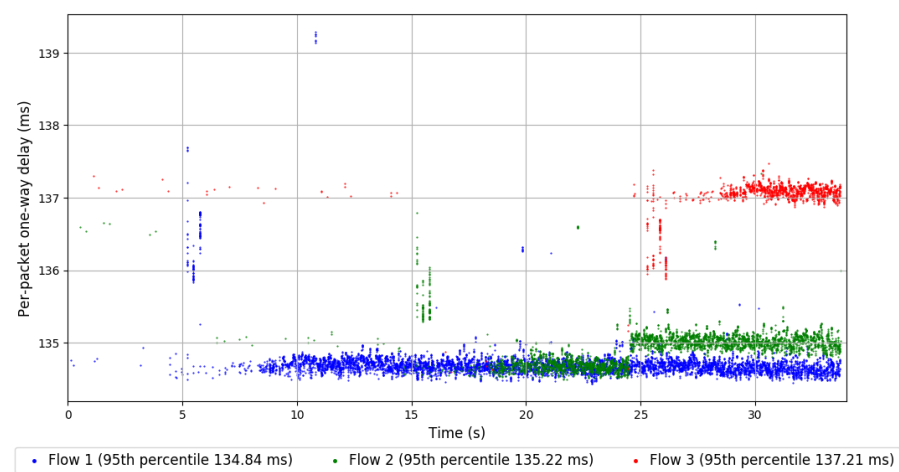
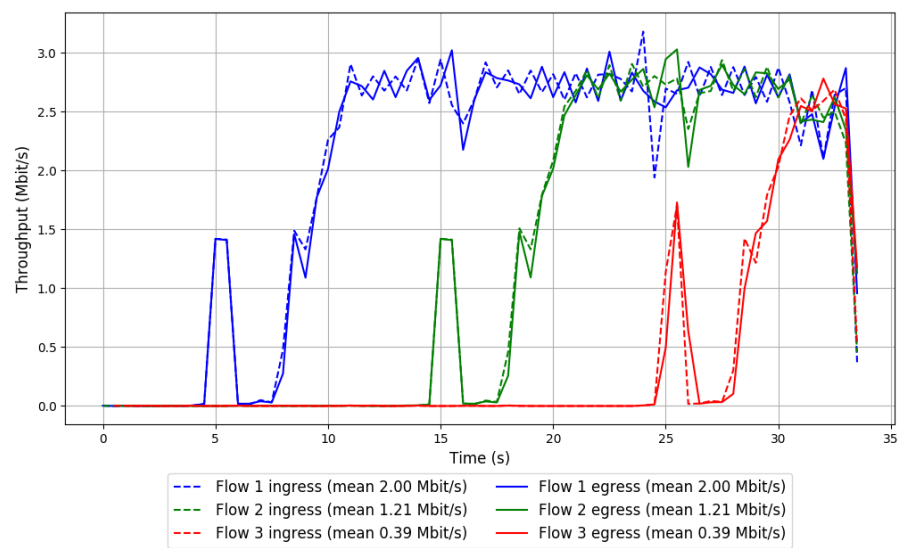
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 137.209 ms

Loss rate: 0.07%

Run 10: Report of WebRTC media — Data Link

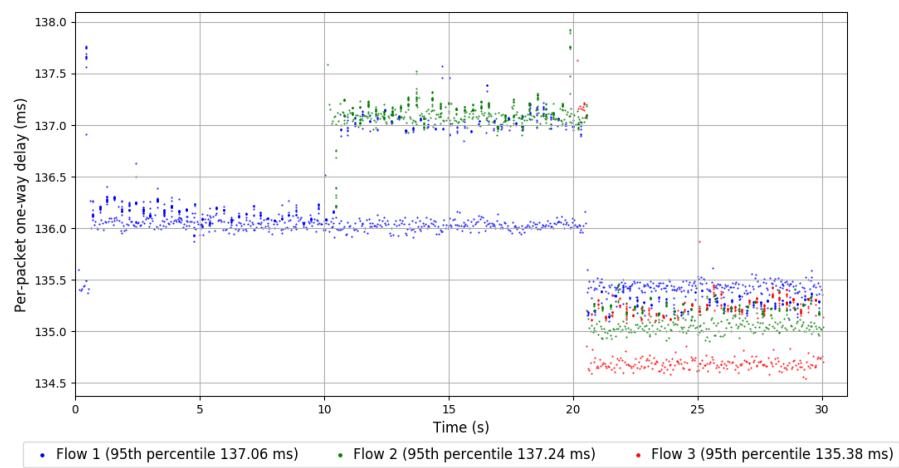
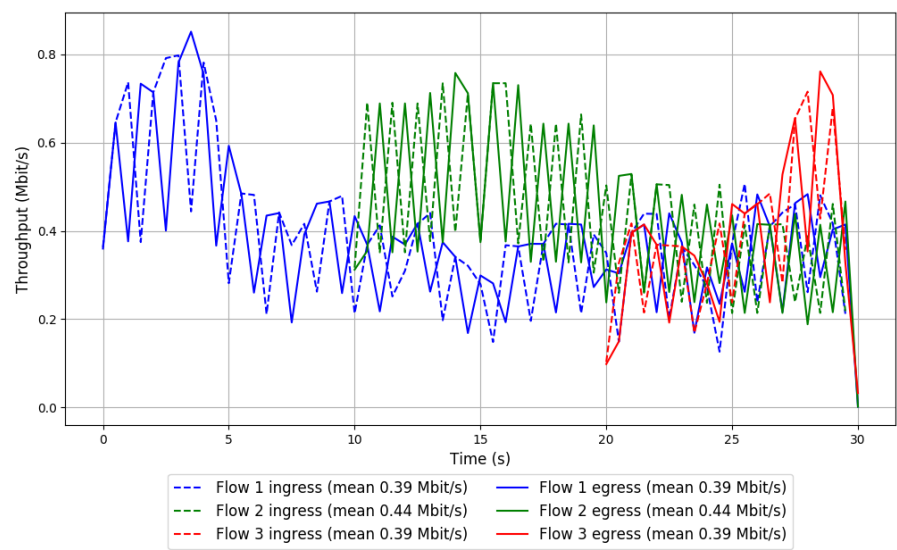


```
Run 1: Statistics of Sprout

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

# Below is generated by plot.py at 2017-12-06 15:46:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.82 Mbit/s
95th percentile per-packet one-way delay: 137.194 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 137.065 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.242 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 135.382 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-12-06 12:39:00

End at: 2017-12-06 12:39:30

Below is generated by plot.py at 2017-12-06 15:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.86 Mbit/s

95th percentile per-packet one-way delay: 137.082 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 137.093 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.225 ms

Loss rate: 0.00%

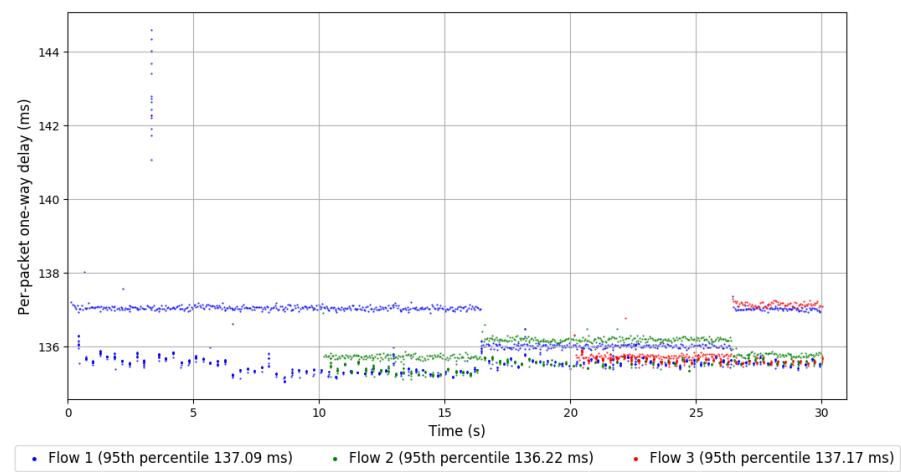
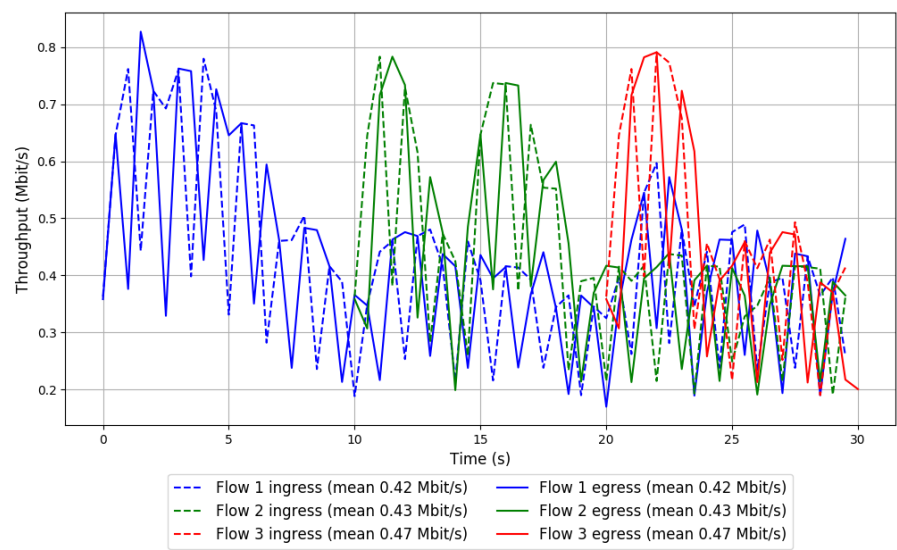
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 137.166 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-12-06 12:53:09

End at: 2017-12-06 12:53:39

Below is generated by plot.py at 2017-12-06 15:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.84 Mbit/s

95th percentile per-packet one-way delay: 136.220 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.191 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.168 ms

Loss rate: 0.00%

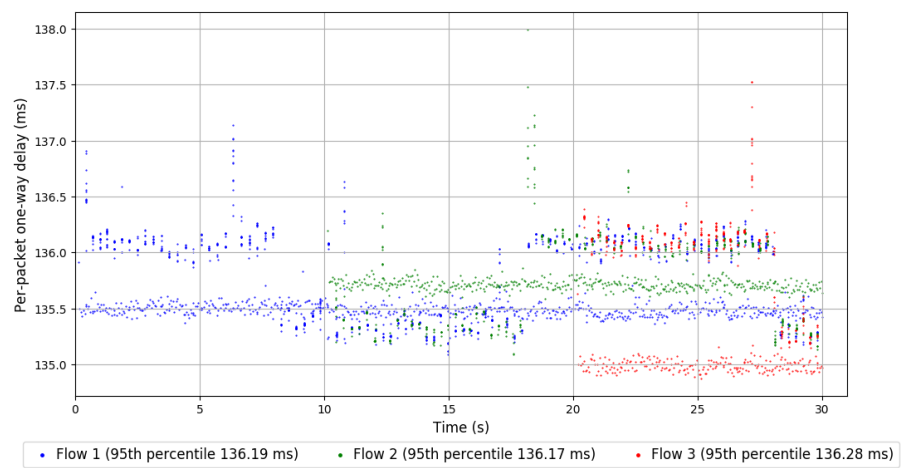
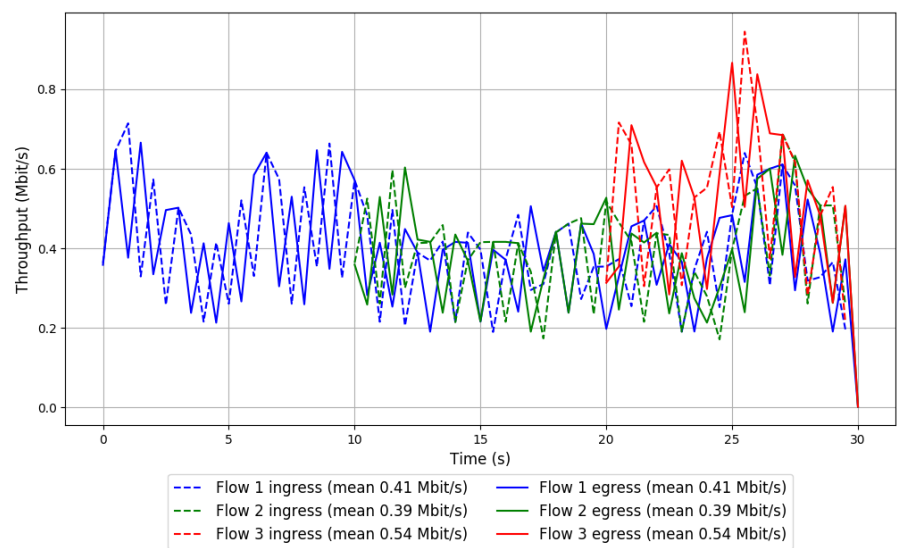
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 136.277 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-12-06 13:07:22

End at: 2017-12-06 13:07:52

Below is generated by plot.py at 2017-12-06 15:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 136.123 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 137.119 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 136.126 ms

Loss rate: 0.00%

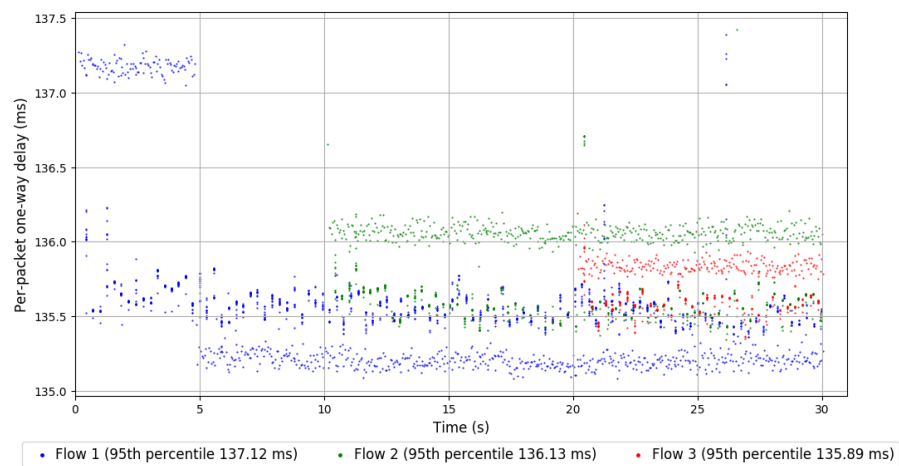
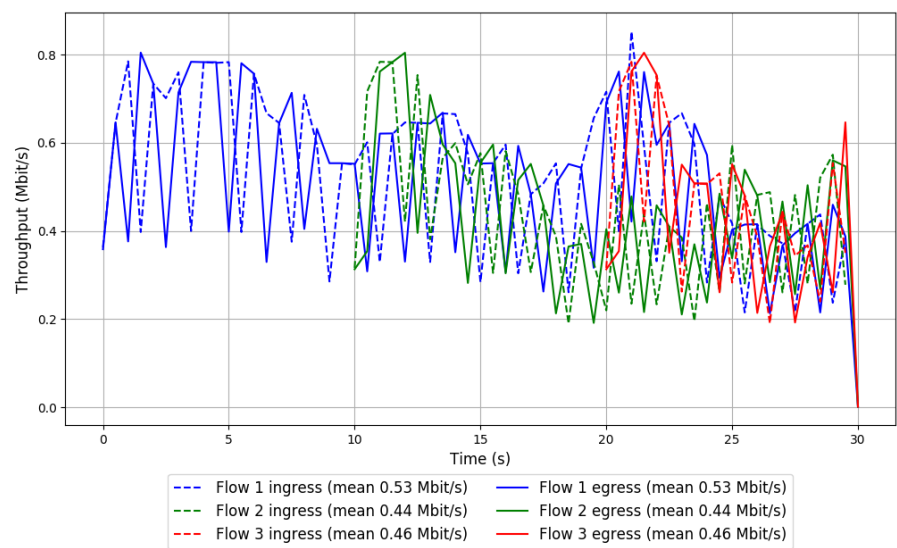
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 135.892 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-12-06 13:21:36

End at: 2017-12-06 13:22:06

Below is generated by plot.py at 2017-12-06 15:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.86 Mbit/s

95th percentile per-packet one-way delay: 136.565 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 136.116 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.121 ms

Loss rate: 0.00%

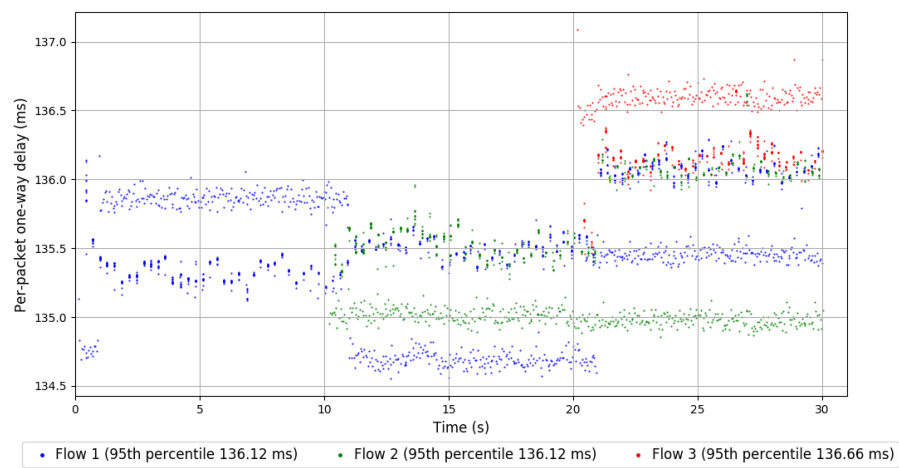
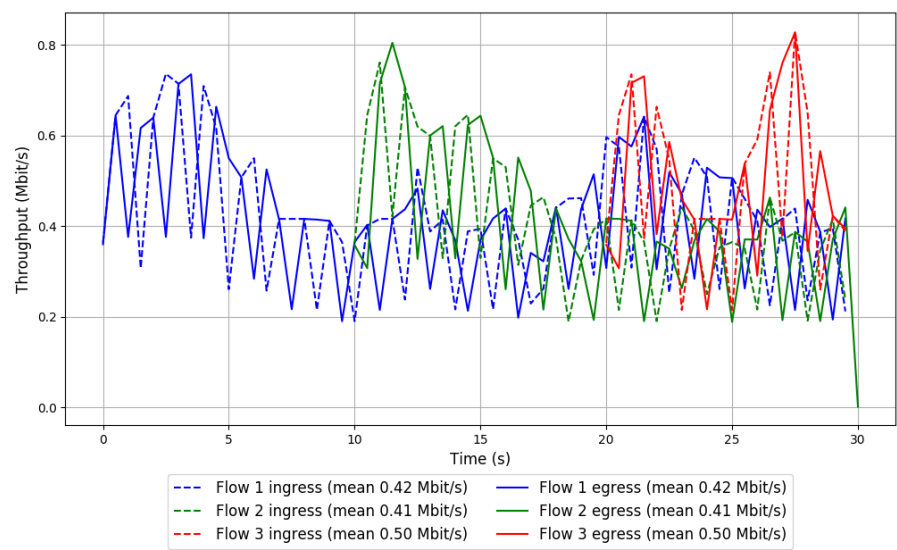
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 136.660 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-12-06 13:35:44

End at: 2017-12-06 13:36:14

Below is generated by plot.py at 2017-12-06 15:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.83 Mbit/s

95th percentile per-packet one-way delay: 137.168 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 137.185 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 137.133 ms

Loss rate: 0.00%

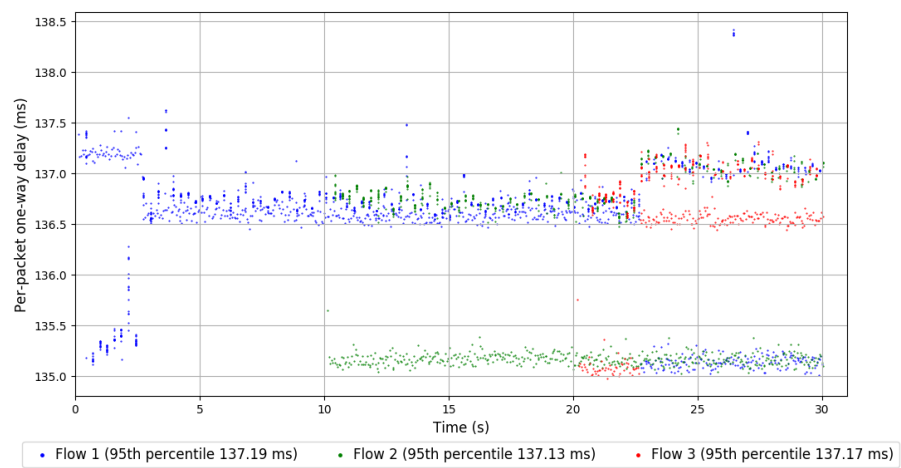
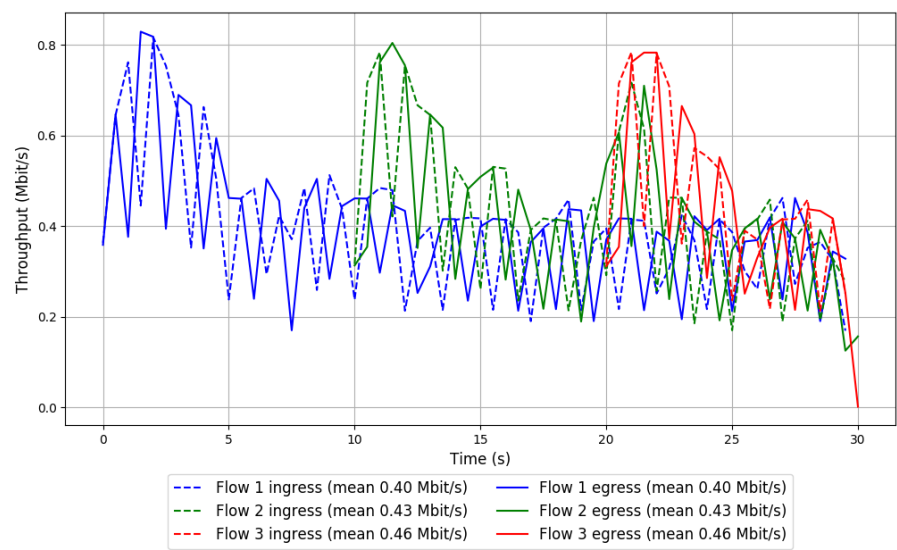
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 137.168 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-12-06 13:49:38

End at: 2017-12-06 13:50:08

Below is generated by plot.py at 2017-12-06 15:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.93 Mbit/s

95th percentile per-packet one-way delay: 137.182 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 136.740 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 137.239 ms

Loss rate: 0.00%

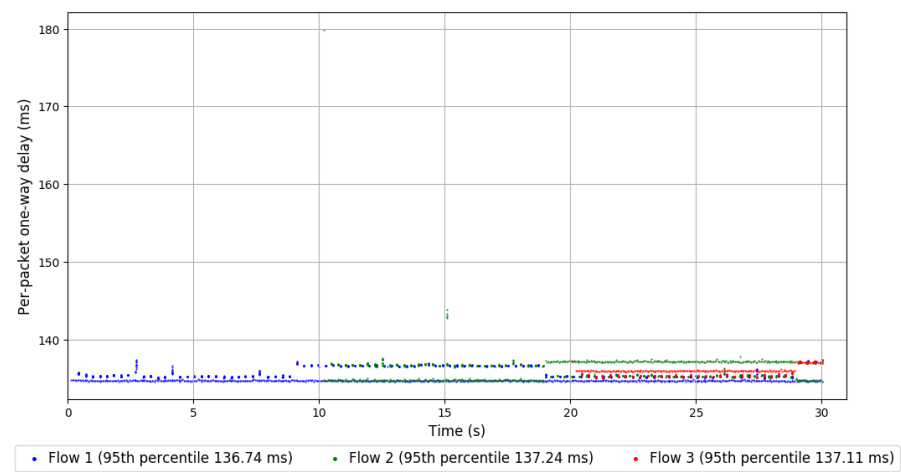
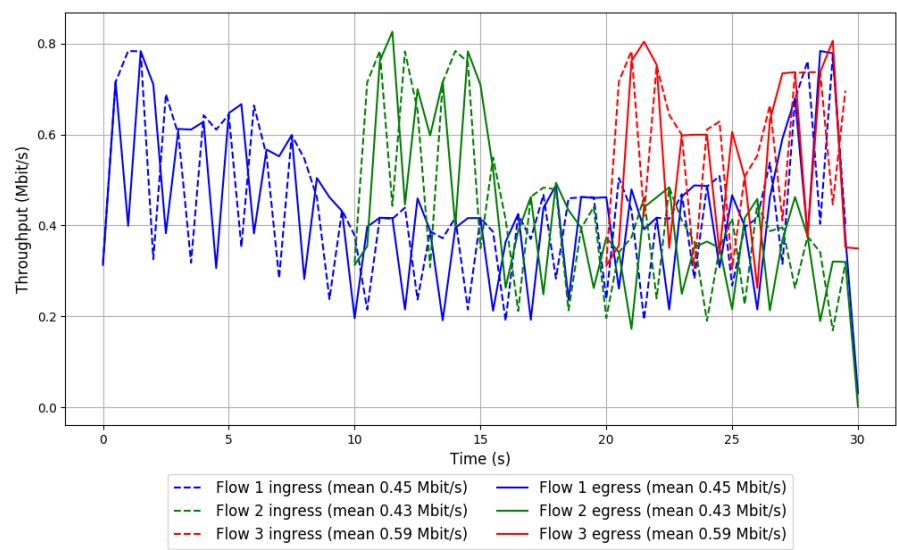
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 137.114 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-12-06 14:03:19

End at: 2017-12-06 14:03:49

Below is generated by plot.py at 2017-12-06 15:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.89 Mbit/s

95th percentile per-packet one-way delay: 137.250 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 137.104 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 137.352 ms

Loss rate: 0.00%

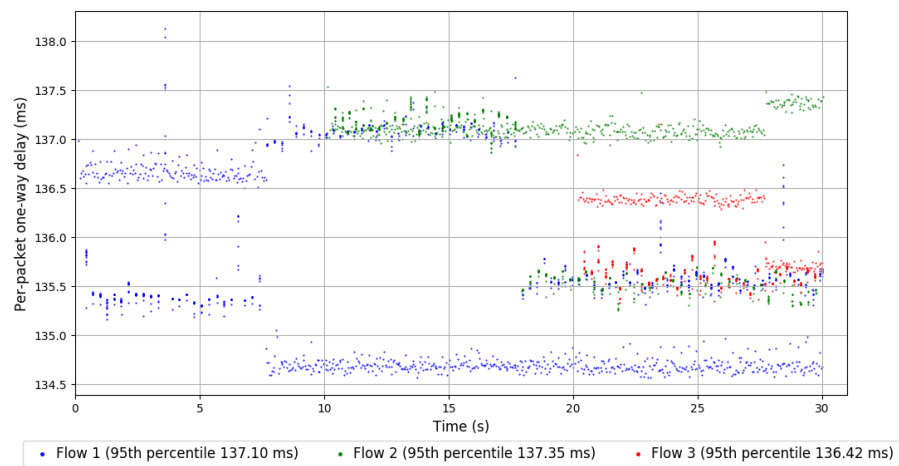
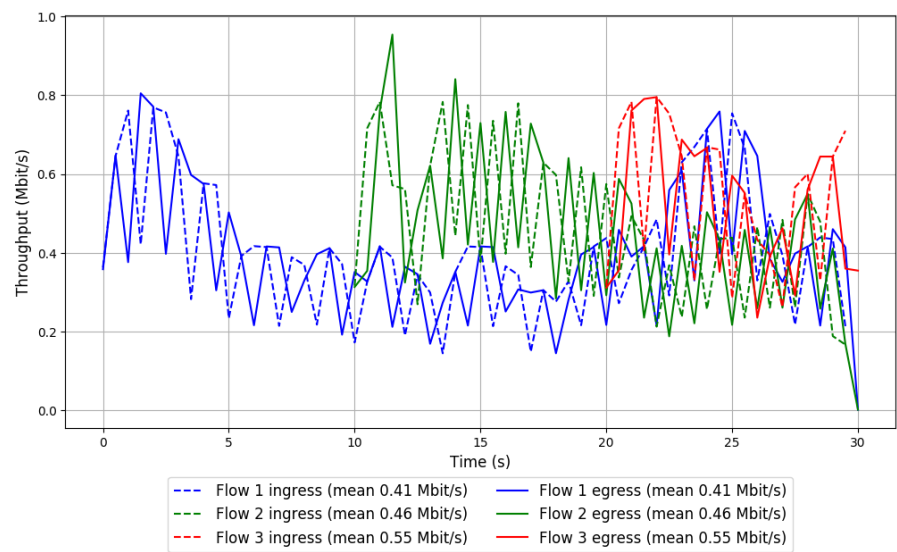
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 136.419 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-12-06 14:17:16

End at: 2017-12-06 14:17:46

Below is generated by plot.py at 2017-12-06 15:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.85 Mbit/s

95th percentile per-packet one-way delay: 137.209 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 137.255 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 136.710 ms

Loss rate: 0.00%

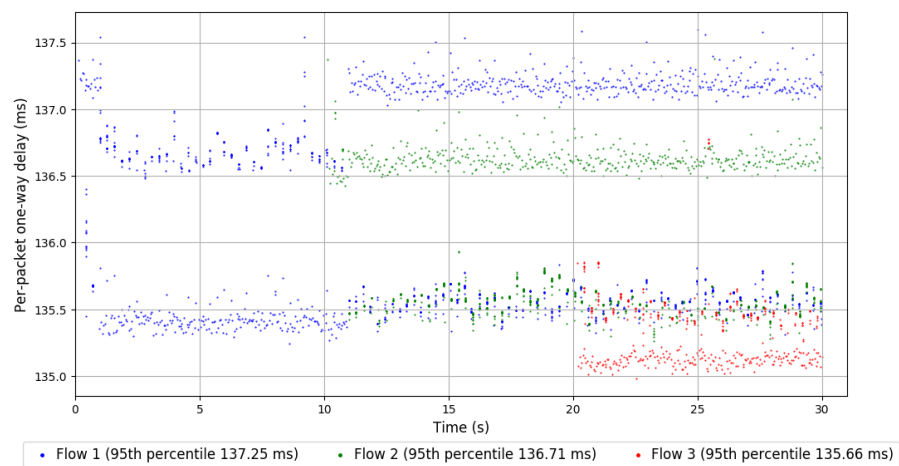
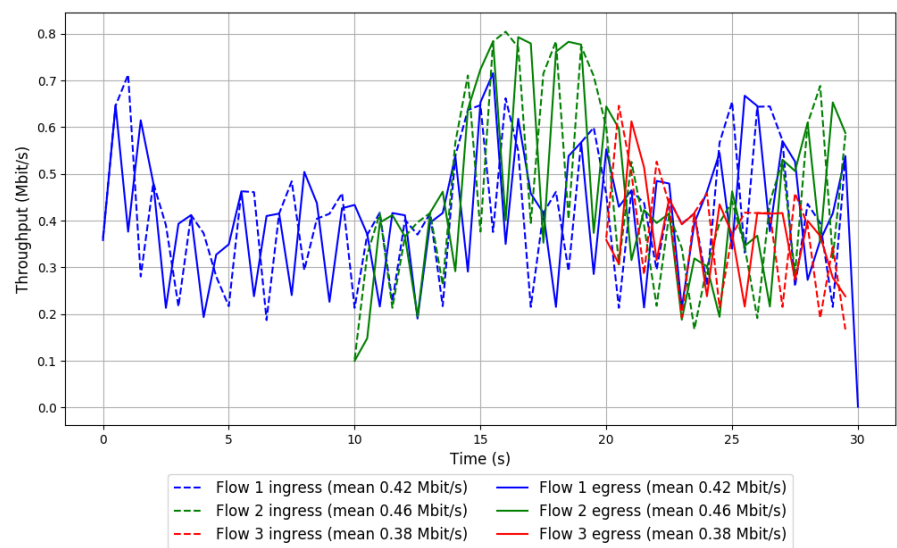
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 135.655 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-12-06 14:31:07

End at: 2017-12-06 14:31:37

Below is generated by plot.py at 2017-12-06 15:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.91 Mbit/s

95th percentile per-packet one-way delay: 137.052 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 136.221 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 137.107 ms

Loss rate: 0.00%

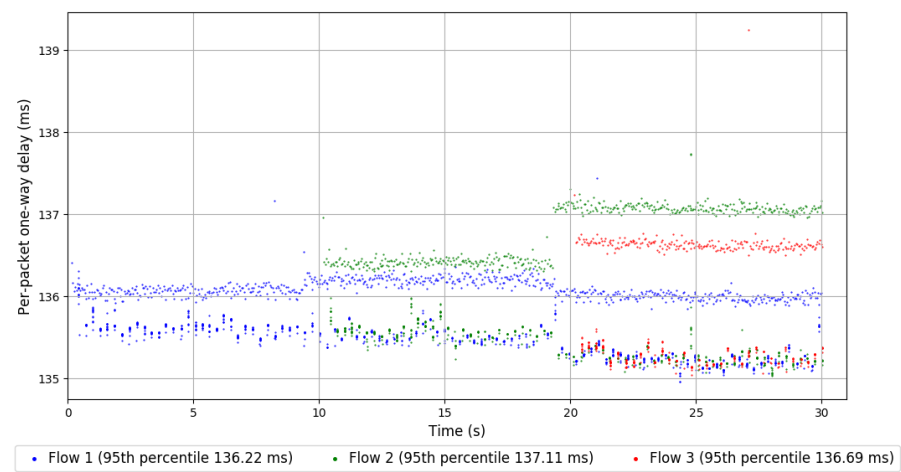
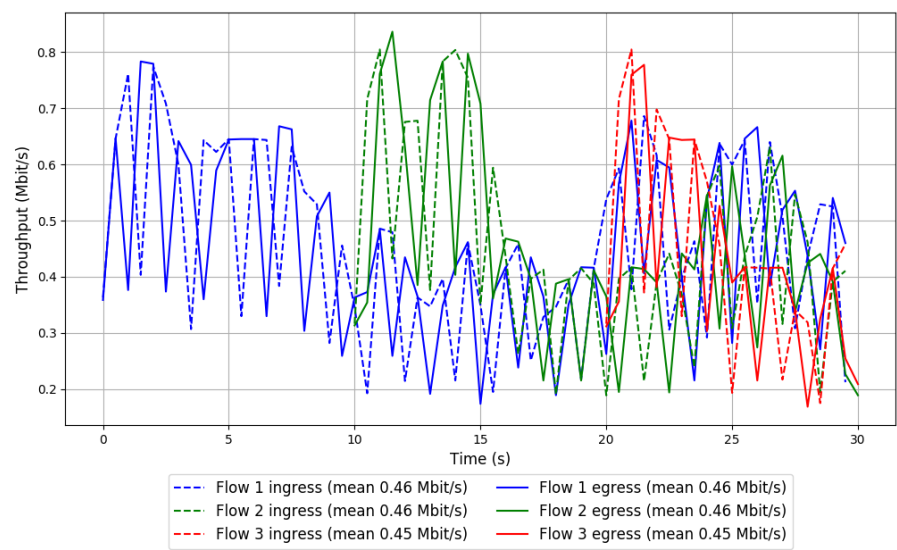
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 136.685 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

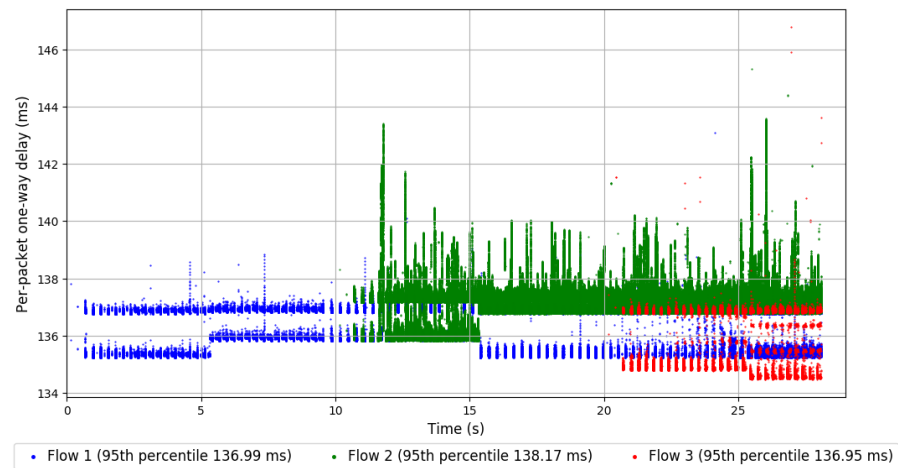
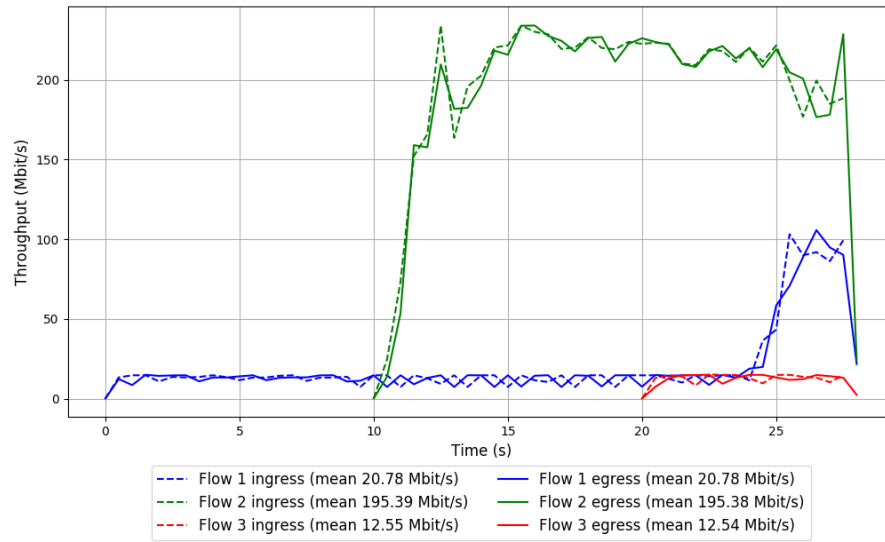


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-06 12:26:59
End at: 2017-12-06 12:27:29

# Below is generated by plot.py at 2017-12-06 15:46:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 149.77 Mbit/s
95th percentile per-packet one-way delay: 138.007 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.78 Mbit/s
95th percentile per-packet one-way delay: 136.985 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 195.38 Mbit/s
95th percentile per-packet one-way delay: 138.166 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.54 Mbit/s
95th percentile per-packet one-way delay: 136.946 ms
Loss rate: 0.00%
```


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

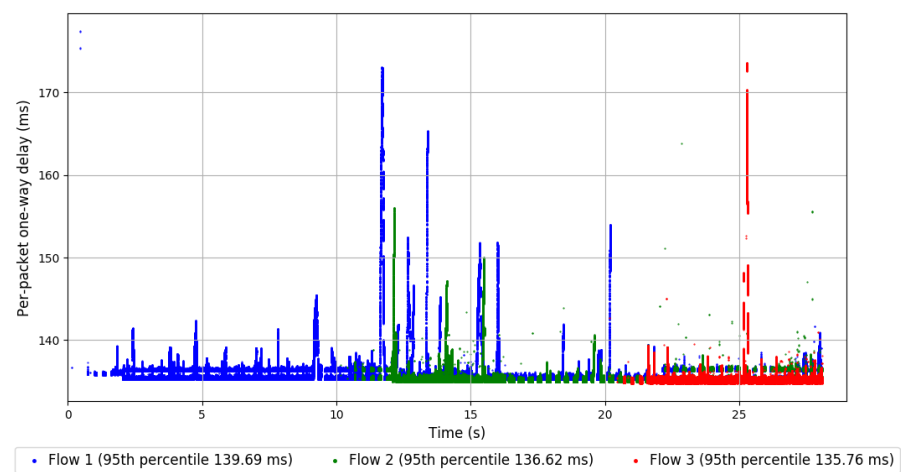
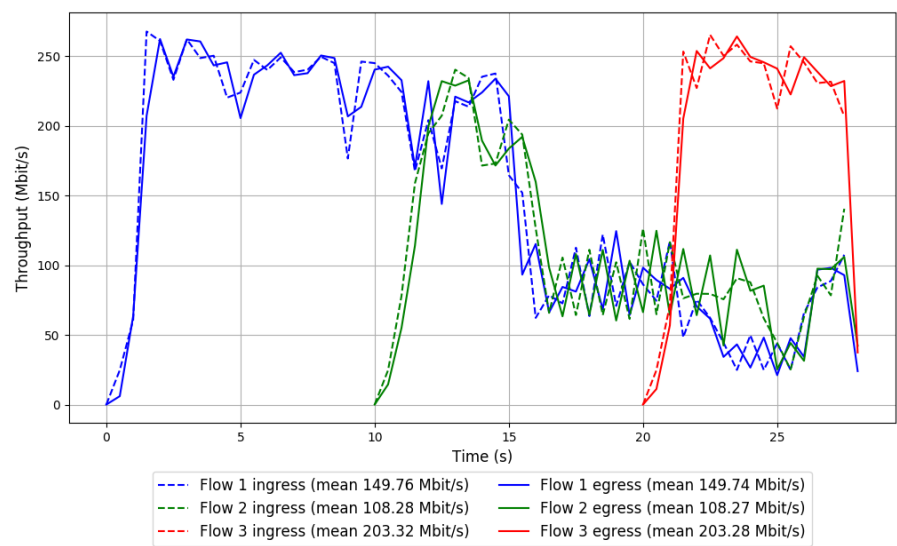


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-12-06 12:40:53
End at: 2017-12-06 12:41:23

# Below is generated by plot.py at 2017-12-06 15:48:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 276.78 Mbit/s
95th percentile per-packet one-way delay: 137.855 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 149.74 Mbit/s
95th percentile per-packet one-way delay: 139.687 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 108.27 Mbit/s
95th percentile per-packet one-way delay: 136.619 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 203.28 Mbit/s
95th percentile per-packet one-way delay: 135.757 ms
Loss rate: 0.00%
```

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

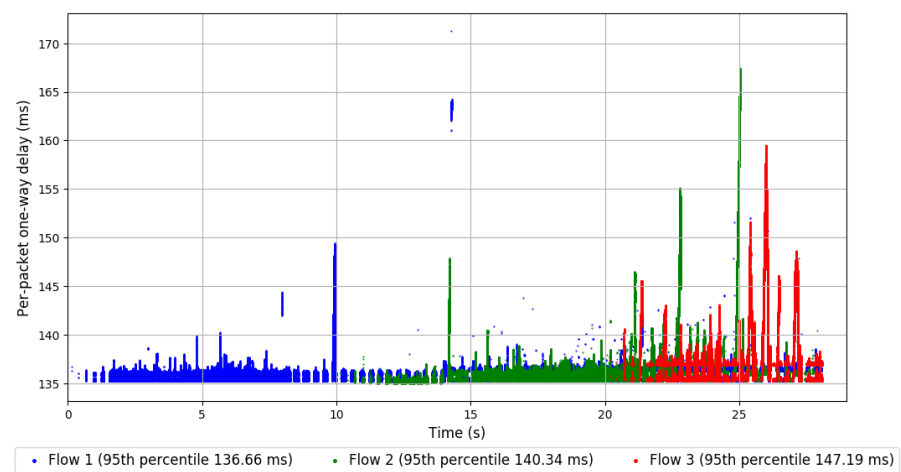
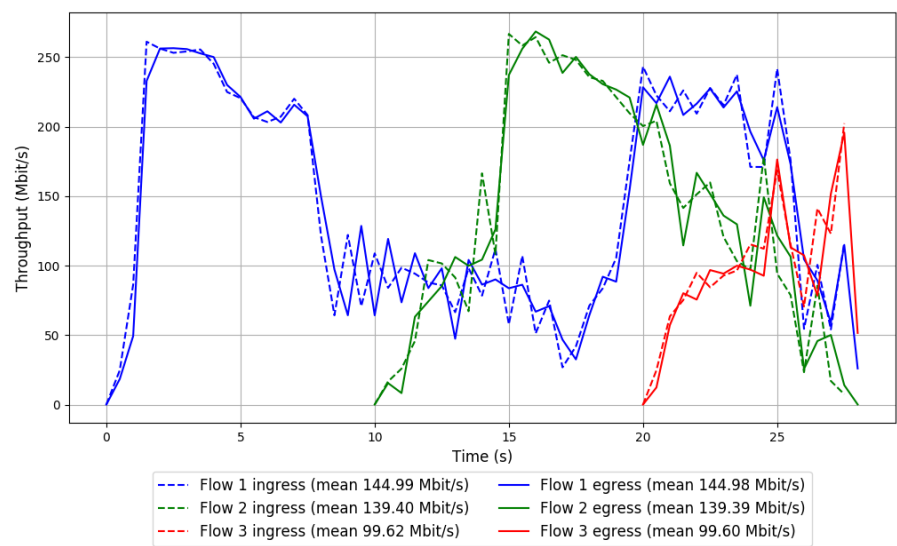


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-12-06 12:55:01
End at: 2017-12-06 12:55:31

# Below is generated by plot.py at 2017-12-06 15:48:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 262.27 Mbit/s
95th percentile per-packet one-way delay: 140.066 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 144.98 Mbit/s
95th percentile per-packet one-way delay: 136.659 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 139.39 Mbit/s
95th percentile per-packet one-way delay: 140.338 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 99.60 Mbit/s
95th percentile per-packet one-way delay: 147.193 ms
Loss rate: 0.00%
```

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

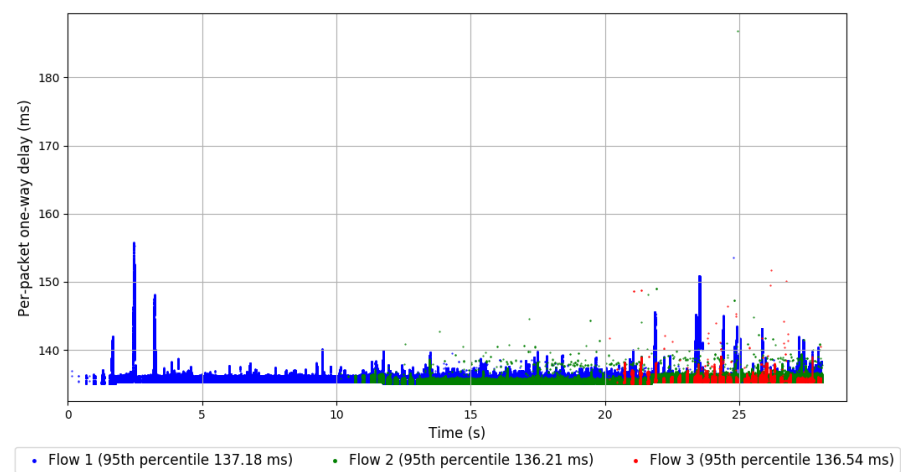
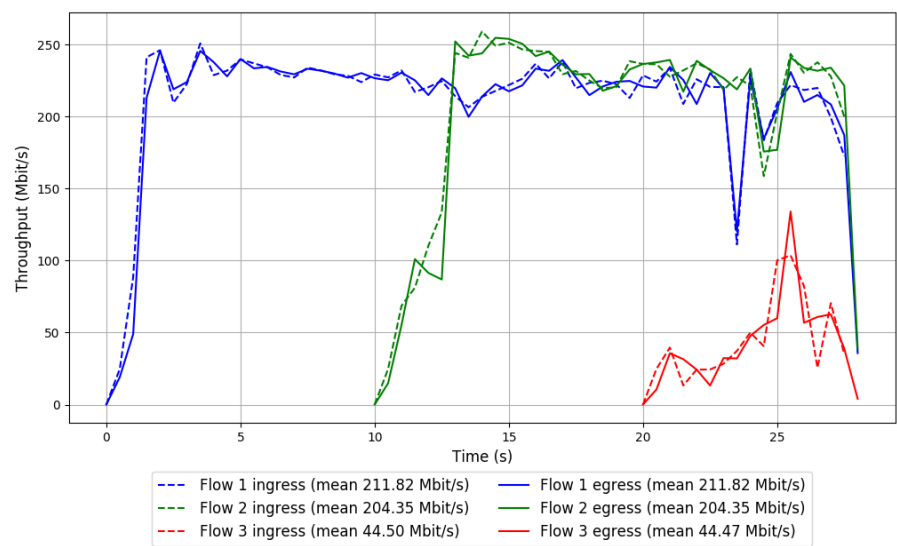


```
Run 4: Statistics of TaoVA-100x

Start at: 2017-12-06 13:09:13
End at: 2017-12-06 13:09:43

# Below is generated by plot.py at 2017-12-06 15:50:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 355.50 Mbit/s
95th percentile per-packet one-way delay: 136.634 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 211.82 Mbit/s
95th percentile per-packet one-way delay: 137.180 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 204.35 Mbit/s
95th percentile per-packet one-way delay: 136.212 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 44.47 Mbit/s
95th percentile per-packet one-way delay: 136.540 ms
Loss rate: 0.00%
```

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-12-06 13:23:28

End at: 2017-12-06 13:23:58

Below is generated by plot.py at 2017-12-06 15:50:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 264.86 Mbit/s

95th percentile per-packet one-way delay: 136.974 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 216.00 Mbit/s

95th percentile per-packet one-way delay: 136.804 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 12.88 Mbit/s

95th percentile per-packet one-way delay: 137.168 ms

Loss rate: 0.00%

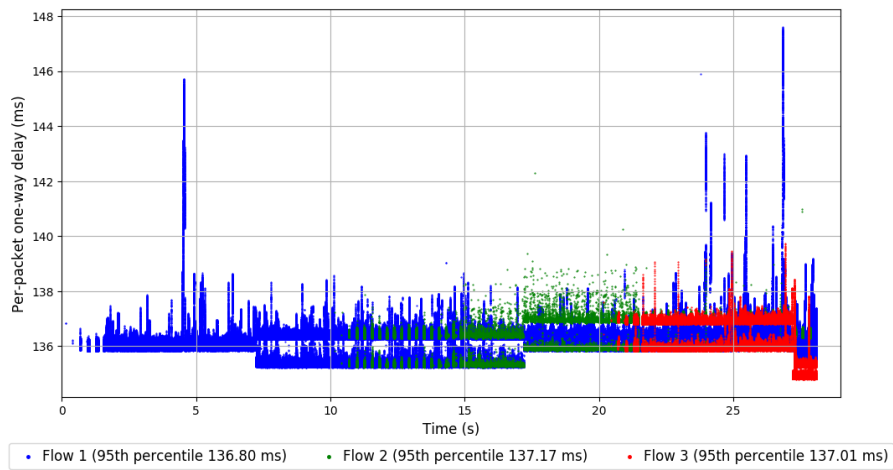
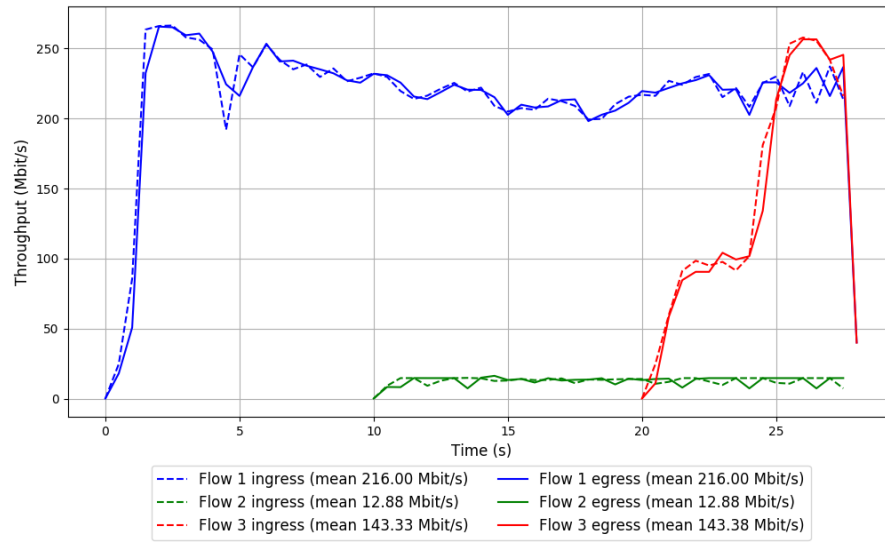
-- Flow 3:

Average throughput: 143.38 Mbit/s

95th percentile per-packet one-way delay: 137.014 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-12-06 13:37:32

End at: 2017-12-06 13:38:02

Below is generated by plot.py at 2017-12-06 15:50:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 214.04 Mbit/s

95th percentile per-packet one-way delay: 138.593 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 178.55 Mbit/s

95th percentile per-packet one-way delay: 138.883 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 49.92 Mbit/s

95th percentile per-packet one-way delay: 137.651 ms

Loss rate: 0.01%

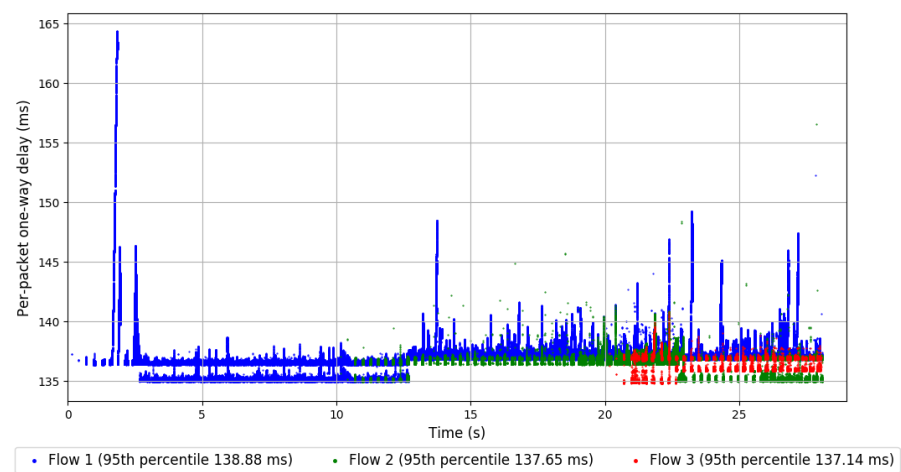
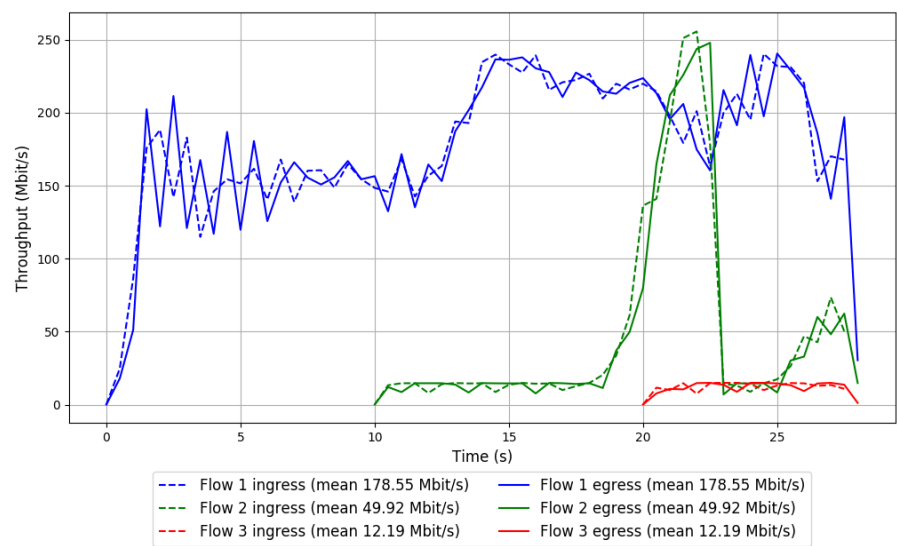
-- Flow 3:

Average throughput: 12.19 Mbit/s

95th percentile per-packet one-way delay: 137.142 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-12-06 13:51:29

End at: 2017-12-06 13:51:59

Below is generated by plot.py at 2017-12-06 15:50:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.56 Mbit/s

95th percentile per-packet one-way delay: 137.132 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.72 Mbit/s

95th percentile per-packet one-way delay: 137.038 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 13.10 Mbit/s

95th percentile per-packet one-way delay: 136.924 ms

Loss rate: 0.00%

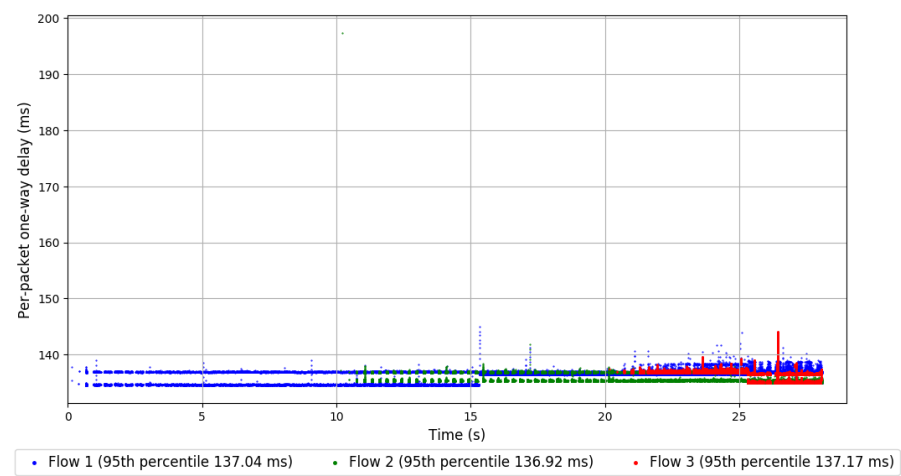
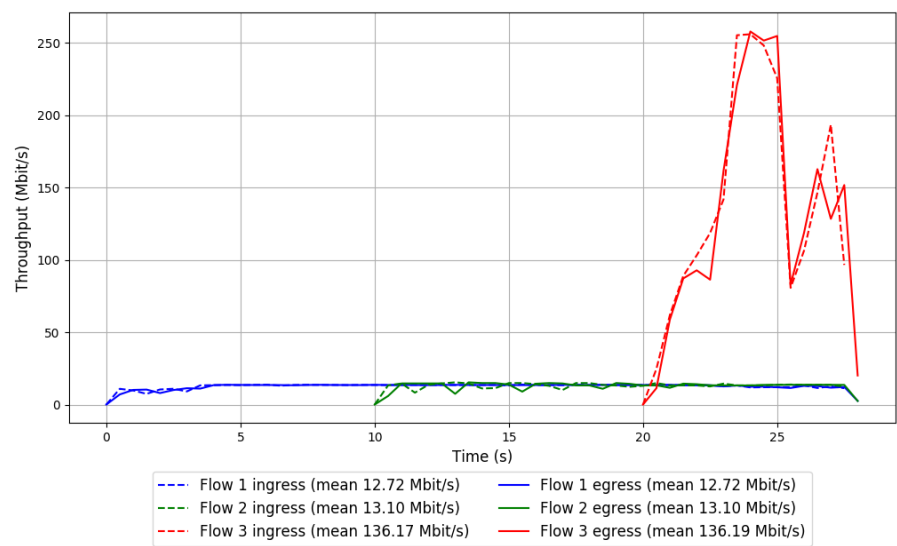
-- Flow 3:

Average throughput: 136.19 Mbit/s

95th percentile per-packet one-way delay: 137.166 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-12-06 14:05:10

End at: 2017-12-06 14:05:40

Below is generated by plot.py at 2017-12-06 15:50:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 149.38 Mbit/s

95th percentile per-packet one-way delay: 137.097 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.29 Mbit/s

95th percentile per-packet one-way delay: 137.135 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 208.21 Mbit/s

95th percentile per-packet one-way delay: 137.035 ms

Loss rate: 0.00%

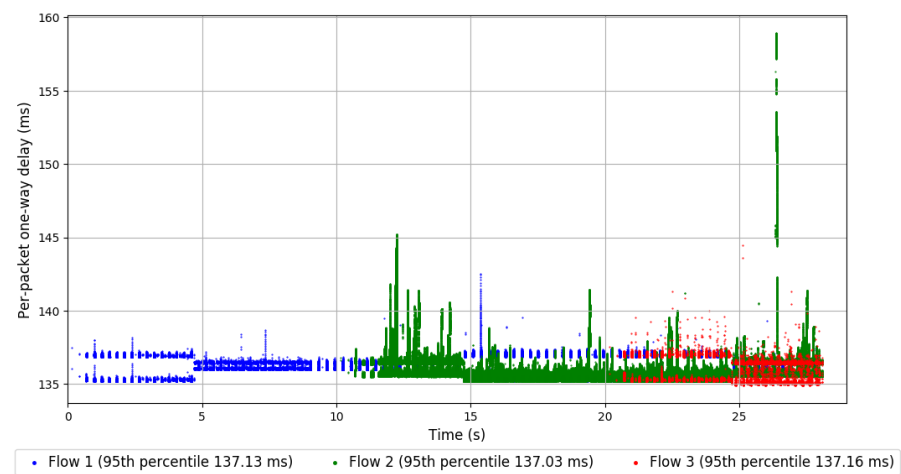
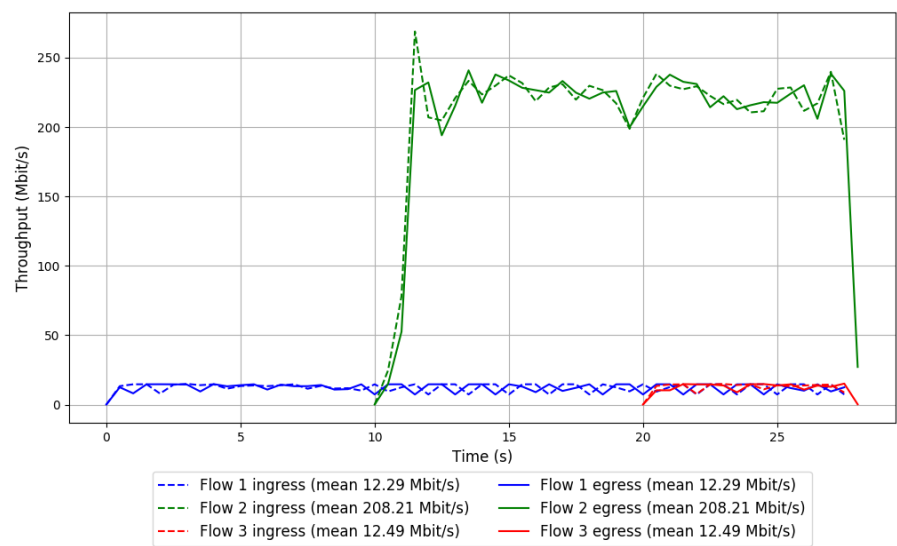
-- Flow 3:

Average throughput: 12.49 Mbit/s

95th percentile per-packet one-way delay: 137.157 ms

Loss rate: 0.00%

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

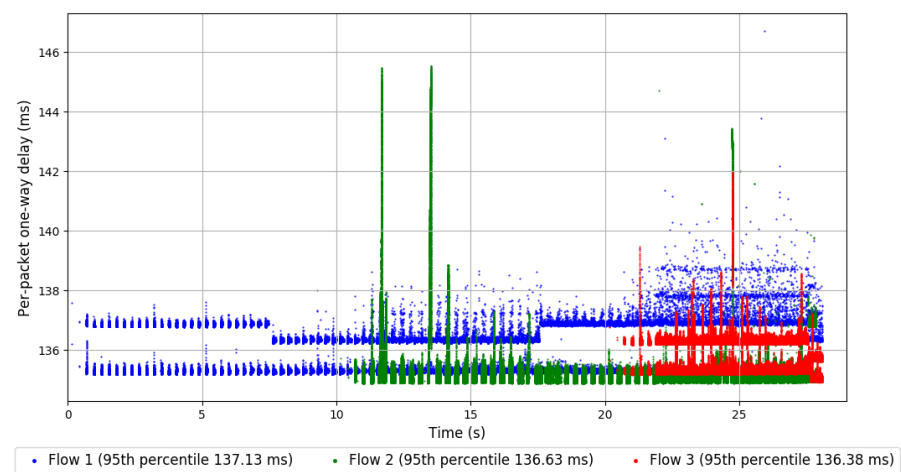
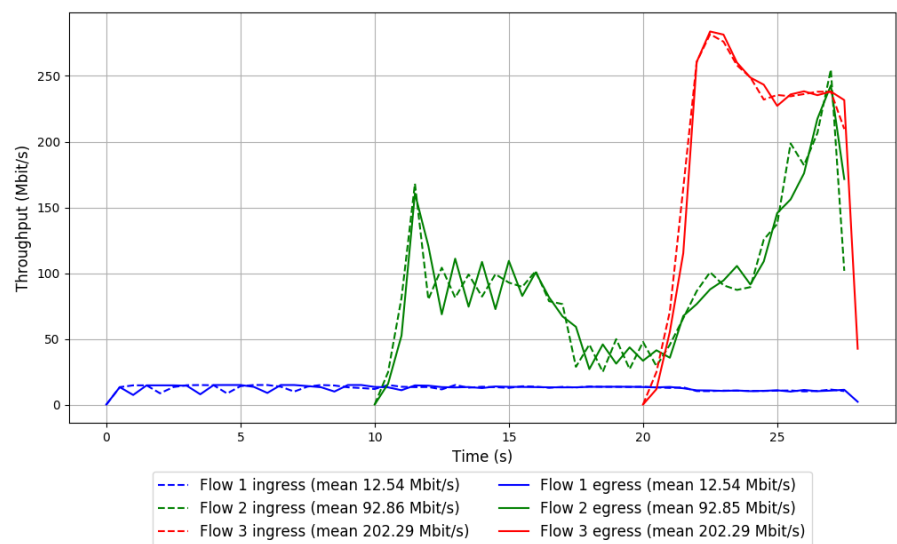


```
Run 9: Statistics of TaoVA-100x

Start at: 2017-12-06 14:19:07
End at: 2017-12-06 14:19:37

# Below is generated by plot.py at 2017-12-06 15:50:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 128.70 Mbit/s
95th percentile per-packet one-way delay: 136.820 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.54 Mbit/s
95th percentile per-packet one-way delay: 137.131 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 92.85 Mbit/s
95th percentile per-packet one-way delay: 136.630 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 202.29 Mbit/s
95th percentile per-packet one-way delay: 136.377 ms
Loss rate: 0.00%
```


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

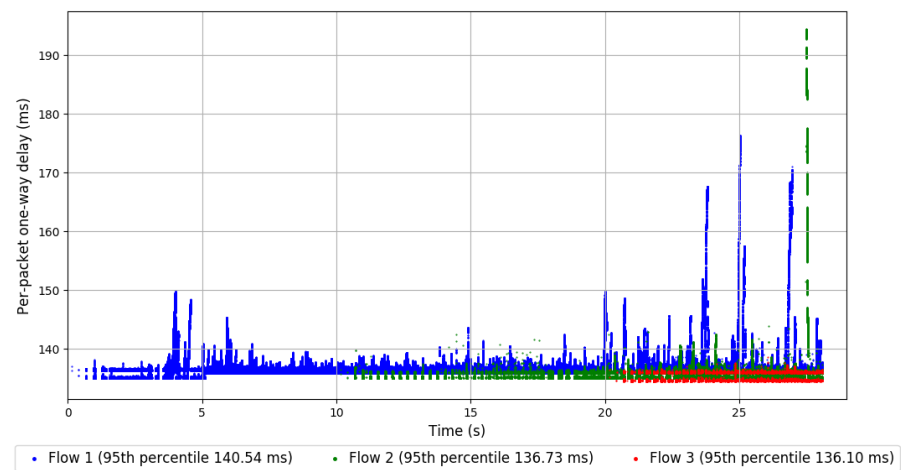
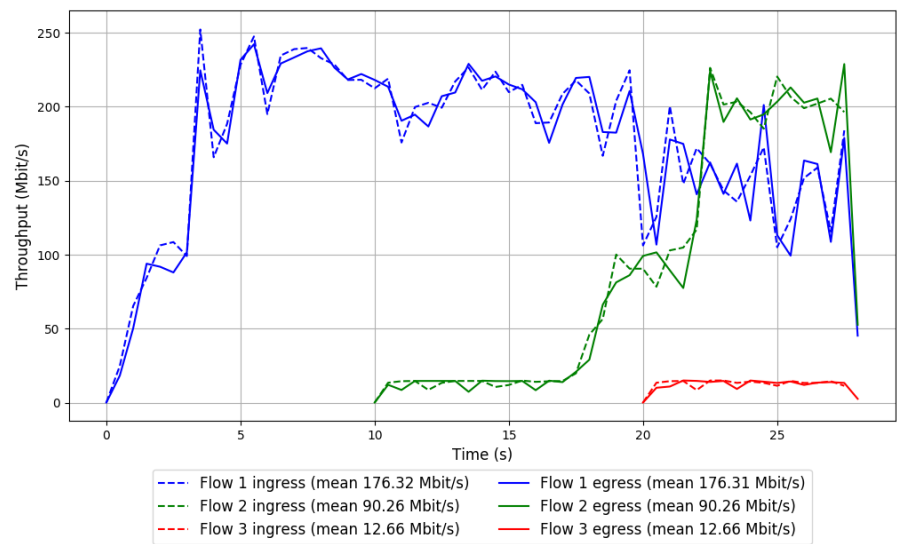


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-12-06 14:33:00
End at: 2017-12-06 14:33:30

# Below is generated by plot.py at 2017-12-06 15:53:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 237.83 Mbit/s
95th percentile per-packet one-way delay: 139.589 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 176.31 Mbit/s
95th percentile per-packet one-way delay: 140.541 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 90.26 Mbit/s
95th percentile per-packet one-way delay: 136.728 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.66 Mbit/s
95th percentile per-packet one-way delay: 136.097 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-12-06 12:31:08

End at: 2017-12-06 12:31:38

Below is generated by plot.py at 2017-12-06 15:53:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.06 Mbit/s

95th percentile per-packet one-way delay: 141.726 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 8.55 Mbit/s

95th percentile per-packet one-way delay: 138.659 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 33.11 Mbit/s

95th percentile per-packet one-way delay: 144.872 ms

Loss rate: 0.00%

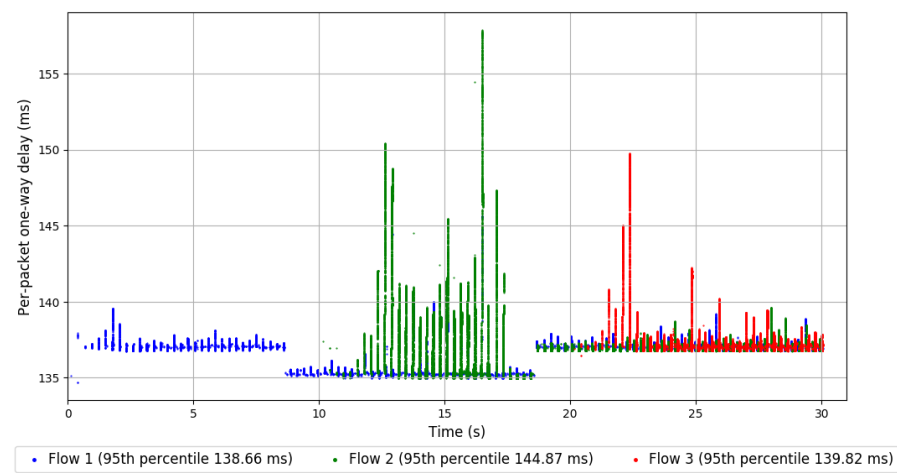
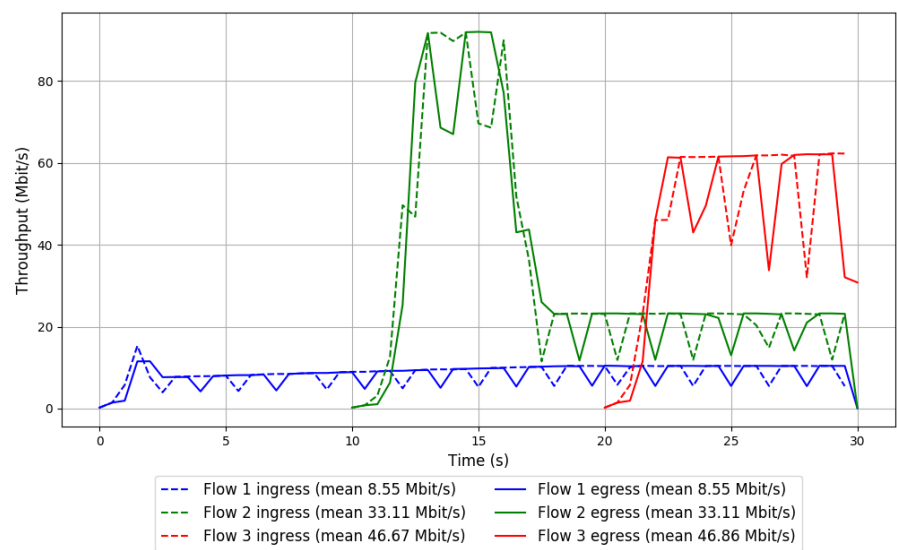
-- Flow 3:

Average throughput: 46.86 Mbit/s

95th percentile per-packet one-way delay: 139.820 ms

Loss rate: 0.01%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-12-06 12:45:15

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

Below is generated by plot.py at 2017-12-06 15:53:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.94 Mbit/s

95th percentile per-packet one-way delay: 149.219 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 25.77 Mbit/s

95th percentile per-packet one-way delay: 146.321 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 61.10 Mbit/s

95th percentile per-packet one-way delay: 150.588 ms

Loss rate: 0.00%

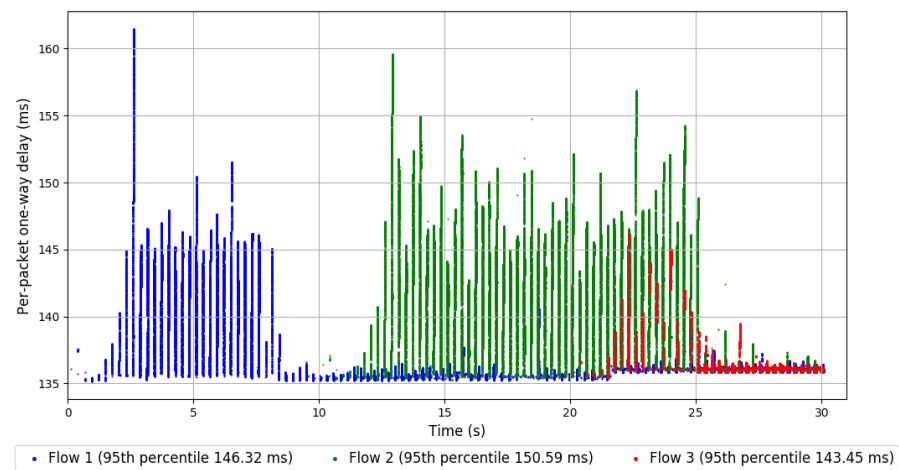
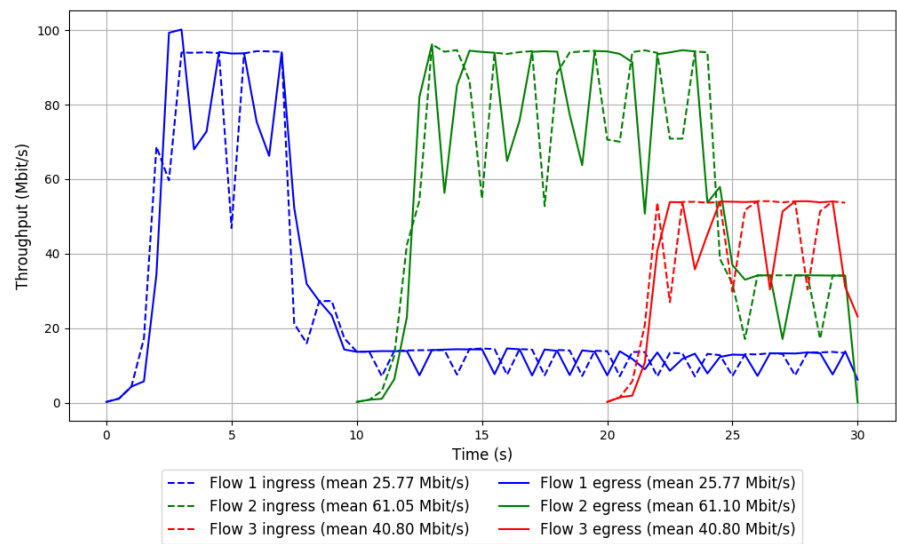
-- Flow 3:

Average throughput: 40.80 Mbit/s

95th percentile per-packet one-way delay: 143.448 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-12-06 12:59:21

End at: 2017-12-06 12:59:51

Below is generated by plot.py at 2017-12-06 15:53:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.30 Mbit/s

95th percentile per-packet one-way delay: 147.112 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 29.81 Mbit/s

95th percentile per-packet one-way delay: 146.045 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 60.30 Mbit/s

95th percentile per-packet one-way delay: 147.664 ms

Loss rate: 0.03%

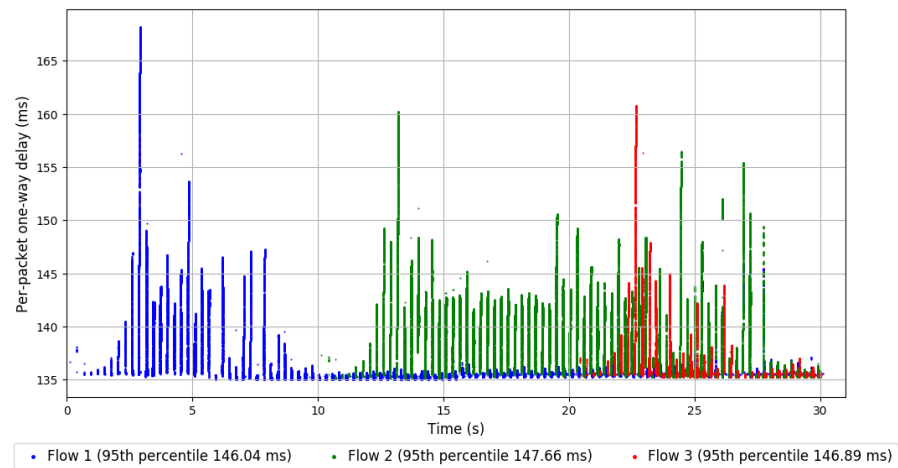
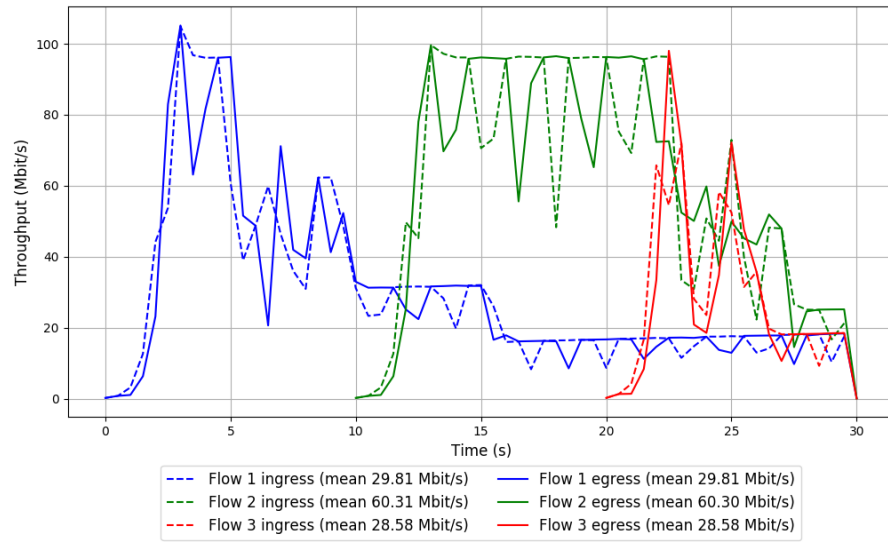
-- Flow 3:

Average throughput: 28.58 Mbit/s

95th percentile per-packet one-way delay: 146.886 ms

Loss rate: 0.01%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

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

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

Below is generated by plot.py at 2017-12-06 15:53:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.50 Mbit/s

95th percentile per-packet one-way delay: 145.167 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 3.01 Mbit/s

95th percentile per-packet one-way delay: 136.441 ms

Loss rate: 1.17%

-- Flow 2:

Average throughput: 32.50 Mbit/s

95th percentile per-packet one-way delay: 142.434 ms

Loss rate: 0.01%

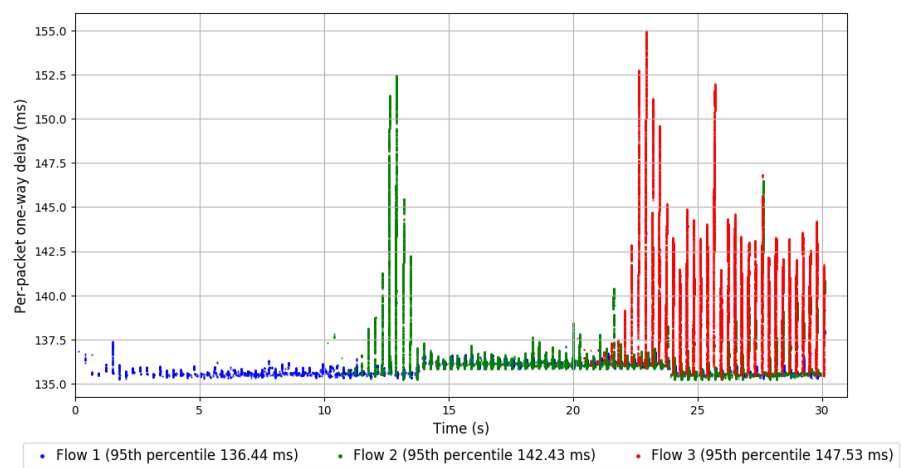
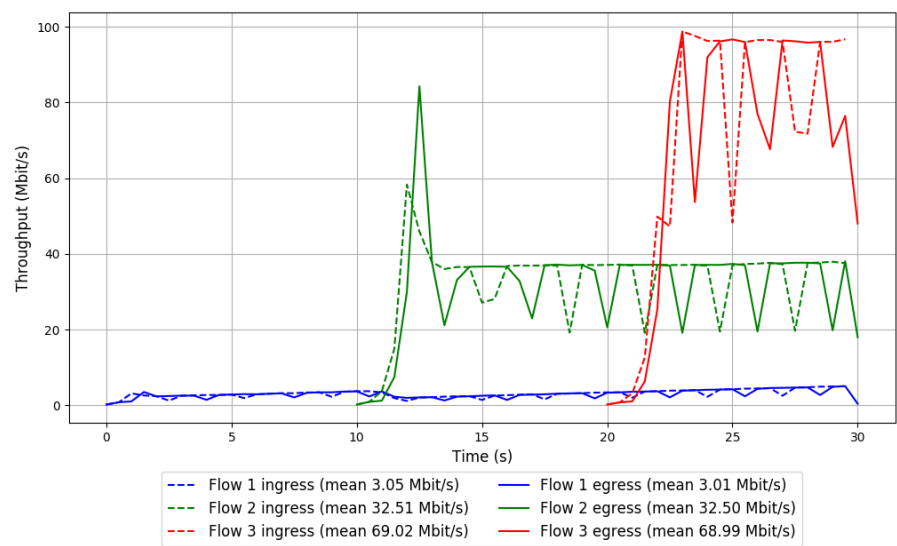
-- Flow 3:

Average throughput: 68.99 Mbit/s

95th percentile per-packet one-way delay: 147.529 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-12-06 13:27:47

End at: 2017-12-06 13:28:17

Below is generated by plot.py at 2017-12-06 15:53:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 109.05 Mbit/s

95th percentile per-packet one-way delay: 148.476 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 35.19 Mbit/s

95th percentile per-packet one-way delay: 147.041 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 77.88 Mbit/s

95th percentile per-packet one-way delay: 147.899 ms

Loss rate: 0.07%

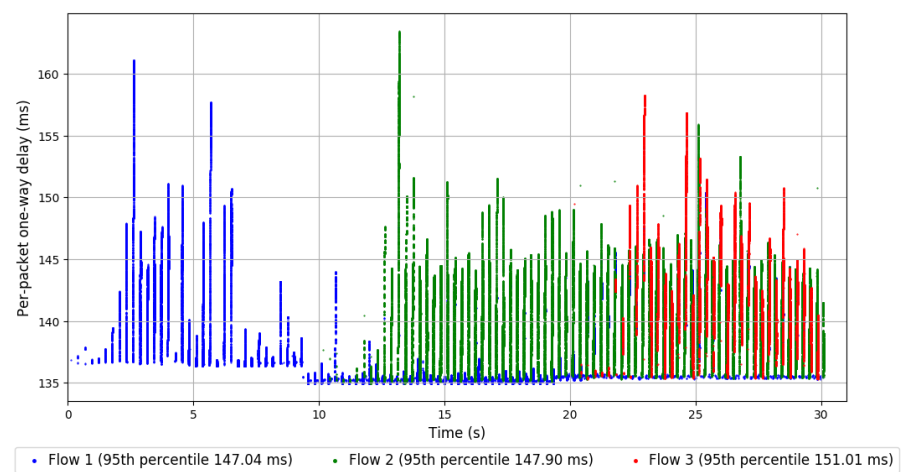
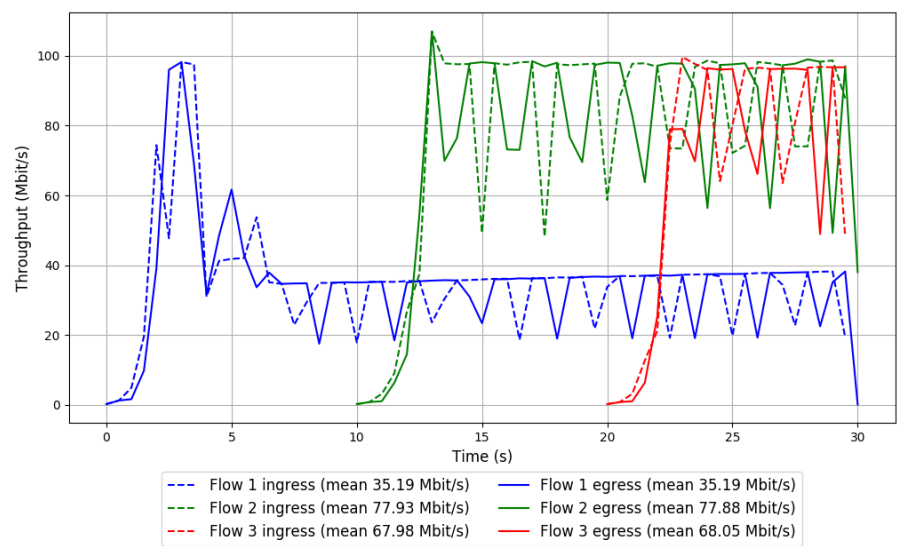
-- Flow 3:

Average throughput: 68.05 Mbit/s

95th percentile per-packet one-way delay: 151.014 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-12-06 13:41:48

End at: 2017-12-06 13:42:18

Below is generated by plot.py at 2017-12-06 15:53:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.05 Mbit/s

95th percentile per-packet one-way delay: 147.412 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.43 Mbit/s

95th percentile per-packet one-way delay: 140.753 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 78.31 Mbit/s

95th percentile per-packet one-way delay: 147.810 ms

Loss rate: 0.00%

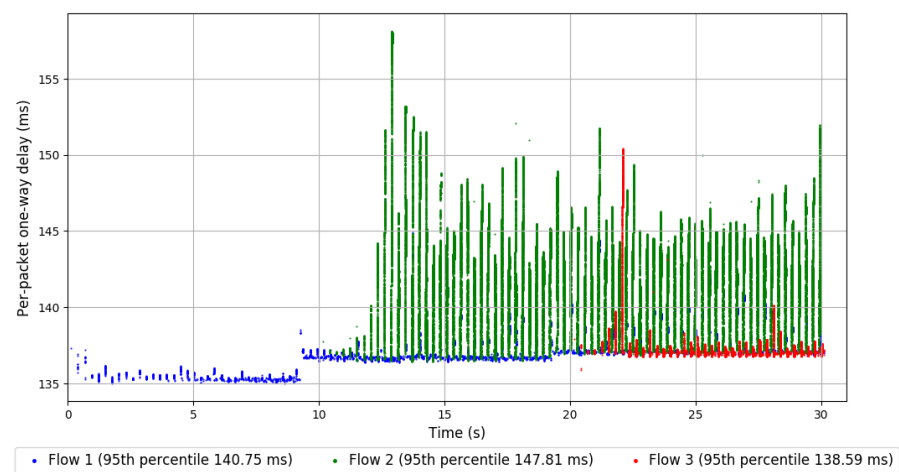
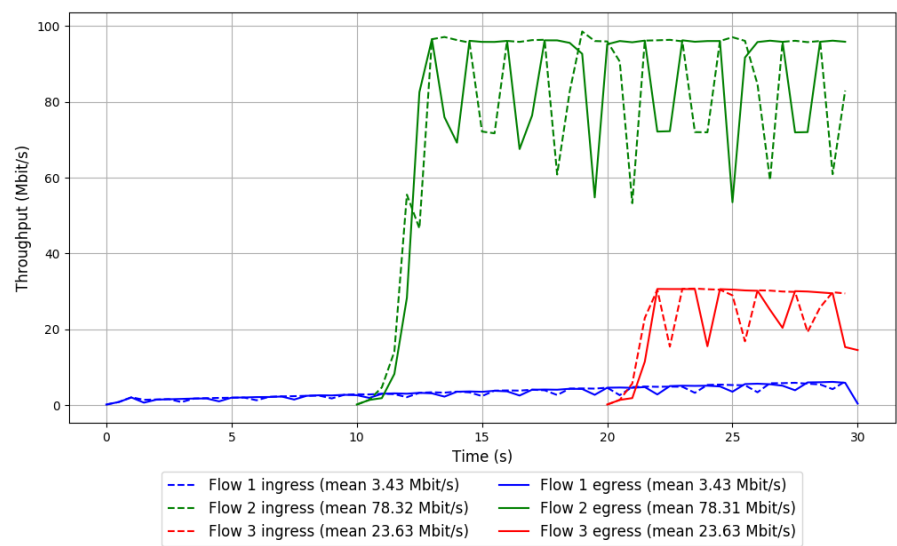
-- Flow 3:

Average throughput: 23.63 Mbit/s

95th percentile per-packet one-way delay: 138.595 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-12-06 13:55:29

End at: 2017-12-06 13:55:59

Below is generated by plot.py at 2017-12-06 15:53:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.32 Mbit/s

95th percentile per-packet one-way delay: 149.438 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 20.27 Mbit/s

95th percentile per-packet one-way delay: 143.743 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 25.66 Mbit/s

95th percentile per-packet one-way delay: 145.504 ms

Loss rate: 0.00%

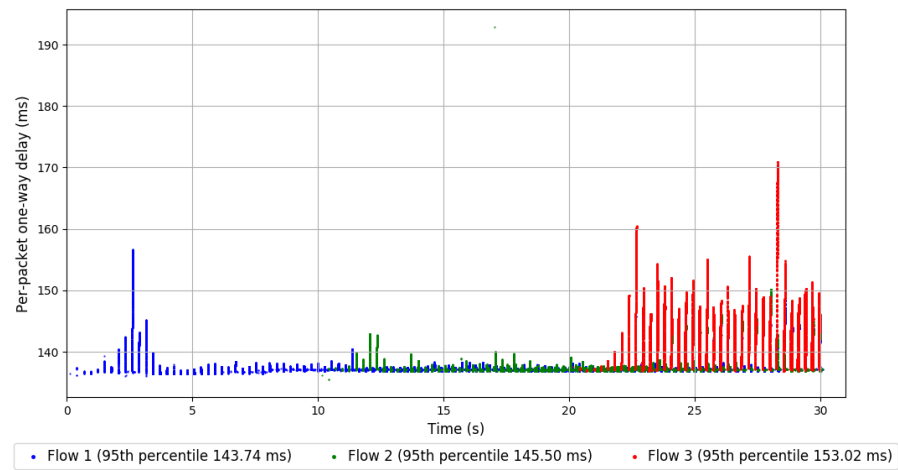
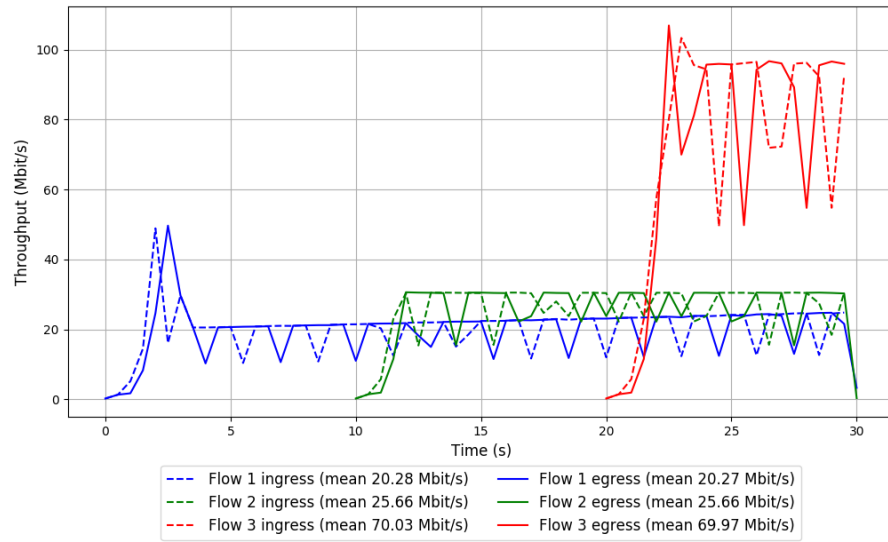
-- Flow 3:

Average throughput: 69.97 Mbit/s

95th percentile per-packet one-way delay: 153.022 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-12-06 14:09:20

End at: 2017-12-06 14:09:50

Below is generated by plot.py at 2017-12-06 15:53:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.71 Mbit/s

95th percentile per-packet one-way delay: 146.323 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 43.31 Mbit/s

95th percentile per-packet one-way delay: 145.207 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 49.09 Mbit/s

95th percentile per-packet one-way delay: 147.154 ms

Loss rate: 0.01%

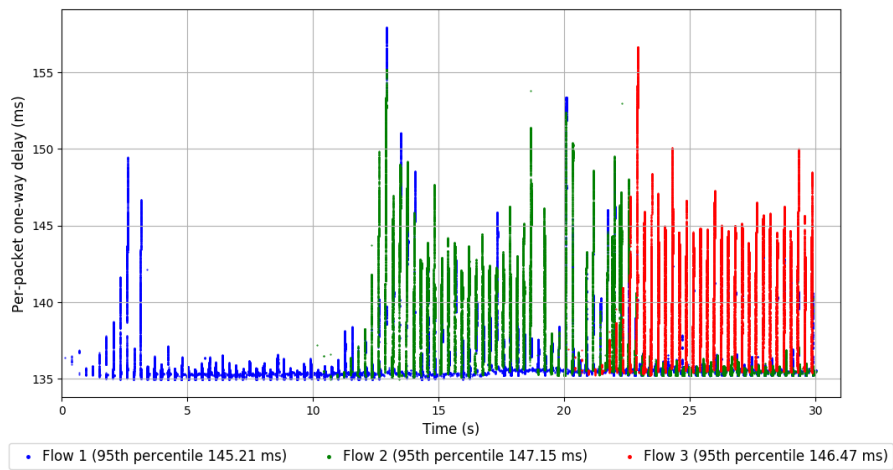
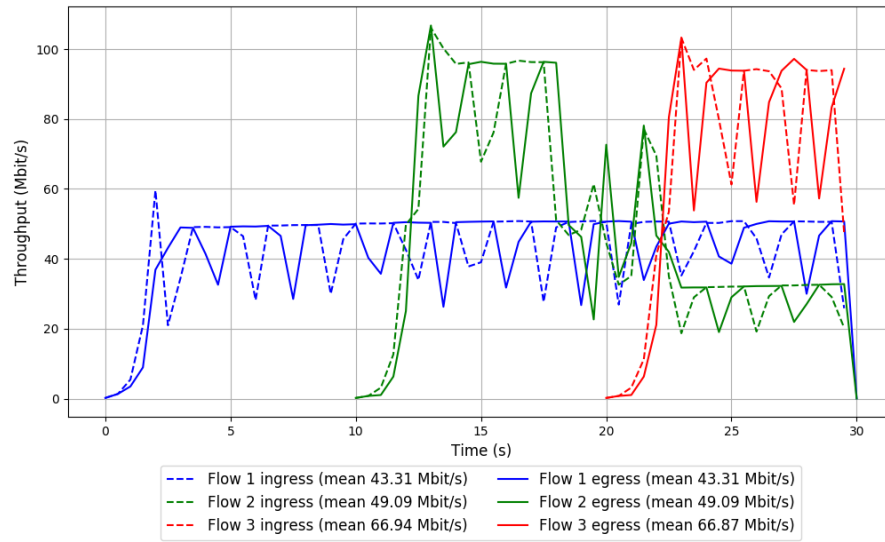
-- Flow 3:

Average throughput: 66.87 Mbit/s

95th percentile per-packet one-way delay: 146.465 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-12-06 14:23:12

End at: 2017-12-06 14:23:42

Below is generated by plot.py at 2017-12-06 15:53:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.30 Mbit/s

95th percentile per-packet one-way delay: 138.176 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 30.33 Mbit/s

95th percentile per-packet one-way delay: 138.300 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 17.25 Mbit/s

95th percentile per-packet one-way delay: 137.517 ms

Loss rate: 0.00%

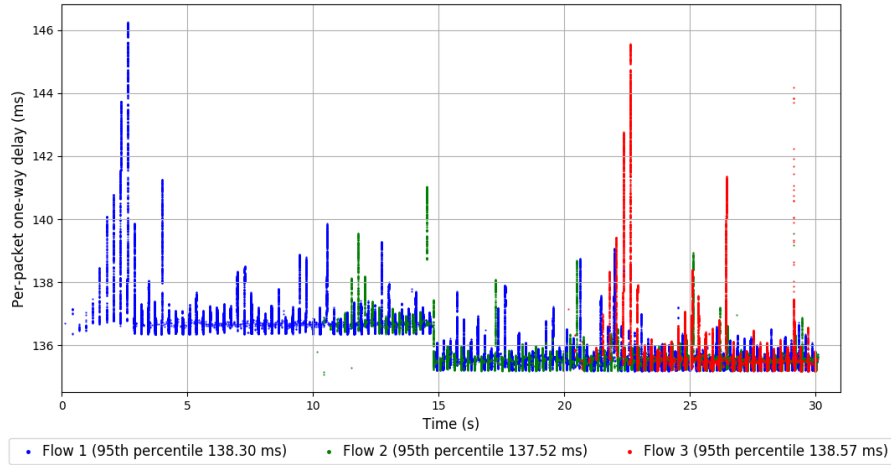
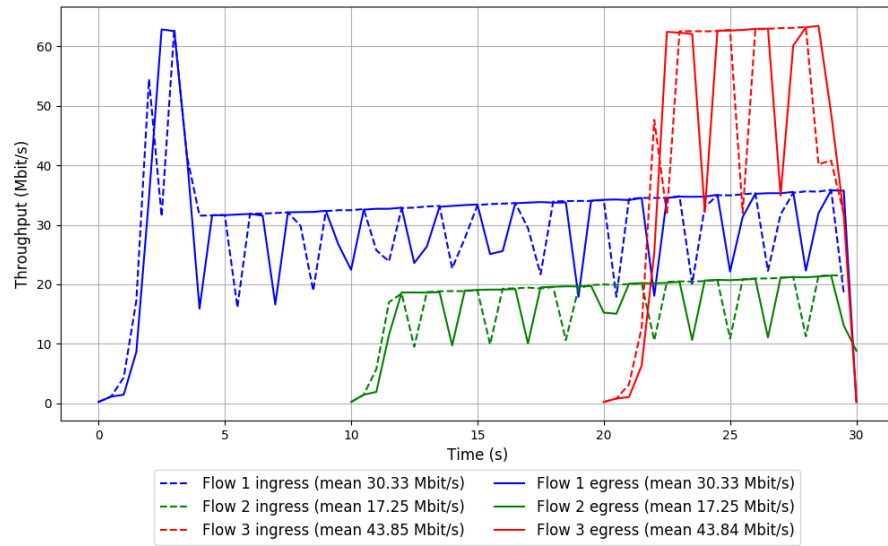
-- Flow 3:

Average throughput: 43.84 Mbit/s

95th percentile per-packet one-way delay: 138.569 ms

Loss rate: 0.02%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-12-06 14:37:21

End at: 2017-12-06 14:37:51

Below is generated by plot.py at 2017-12-06 15:53:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.80 Mbit/s

95th percentile per-packet one-way delay: 141.651 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 26.40 Mbit/s

95th percentile per-packet one-way delay: 141.372 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 53.13 Mbit/s

95th percentile per-packet one-way delay: 139.432 ms

Loss rate: 0.01%

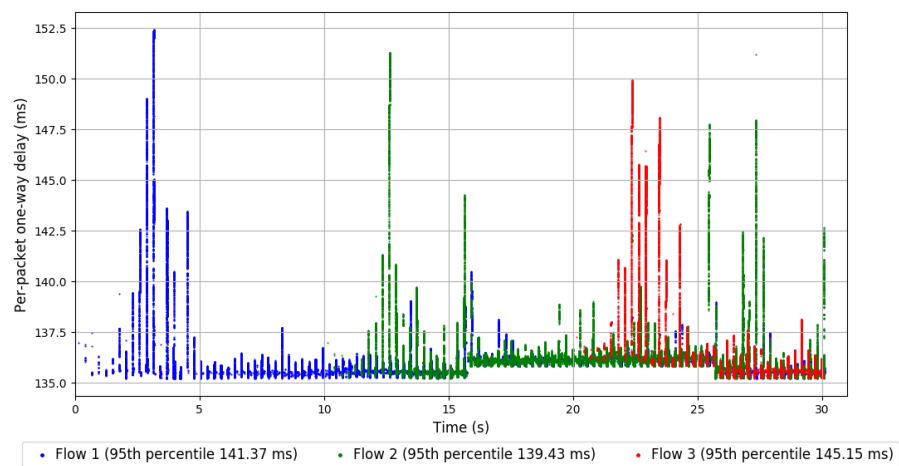
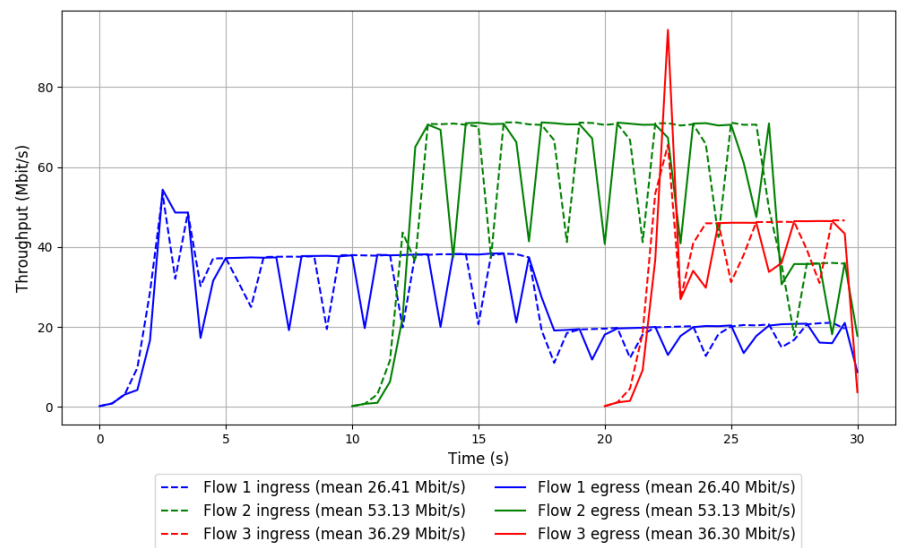
-- Flow 3:

Average throughput: 36.30 Mbit/s

95th percentile per-packet one-way delay: 145.149 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-12-06 12:21:16

End at: 2017-12-06 12:21:46

Below is generated by plot.py at 2017-12-06 15:55:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 285.25 Mbit/s

95th percentile per-packet one-way delay: 331.051 ms

Loss rate: 6.42%

-- Flow 1:

Average throughput: 180.90 Mbit/s

95th percentile per-packet one-way delay: 274.530 ms

Loss rate: 2.65%

-- Flow 2:

Average throughput: 135.52 Mbit/s

95th percentile per-packet one-way delay: 361.309 ms

Loss rate: 10.57%

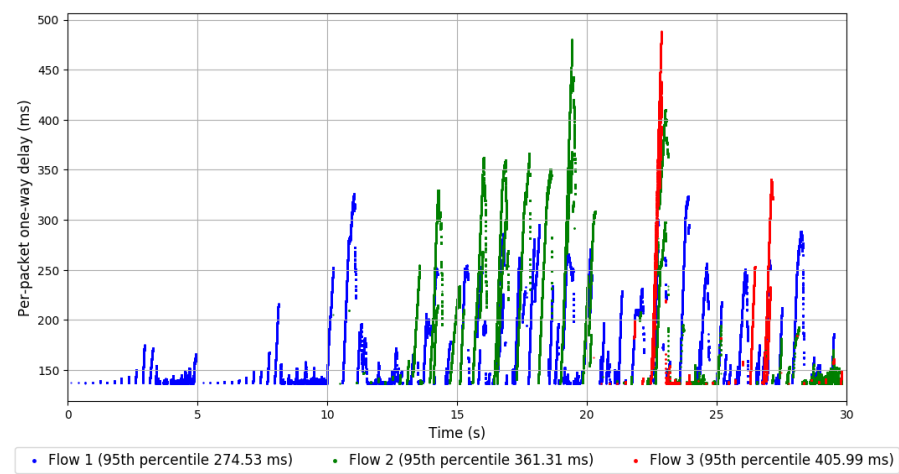
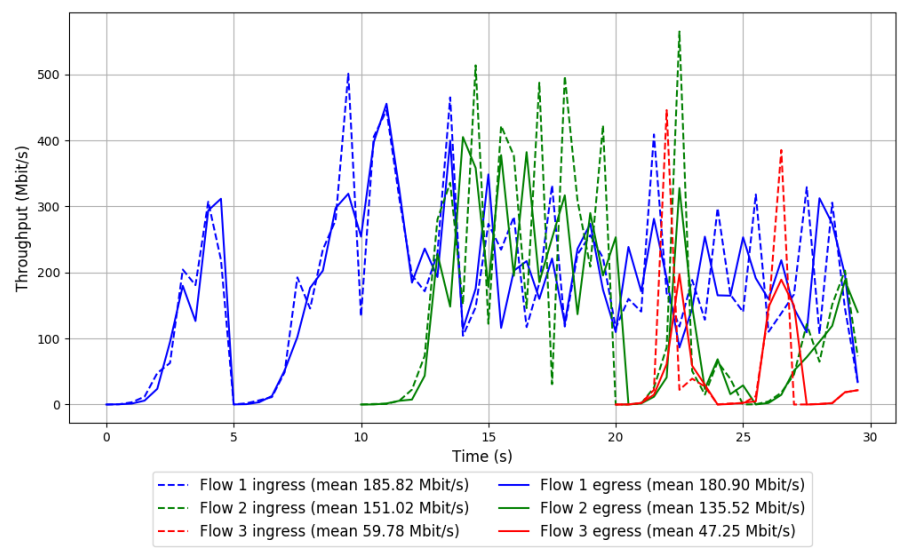
-- Flow 3:

Average throughput: 47.25 Mbit/s

95th percentile per-packet one-way delay: 405.994 ms

Loss rate: 21.06%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-12-06 12:35:22

End at: 2017-12-06 12:35:52

Below is generated by plot.py at 2017-12-06 15:55:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 154.28 Mbit/s

95th percentile per-packet one-way delay: 183.063 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 78.20 Mbit/s

95th percentile per-packet one-way delay: 198.093 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 101.14 Mbit/s

95th percentile per-packet one-way delay: 181.121 ms

Loss rate: 0.00%

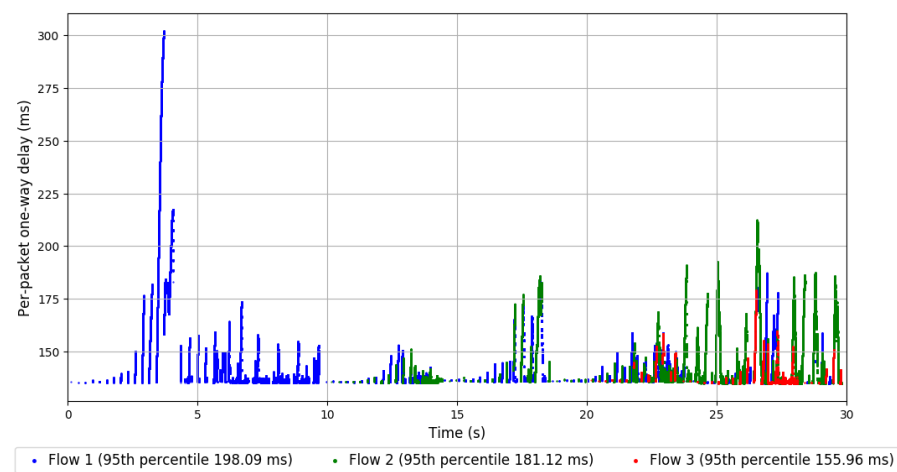
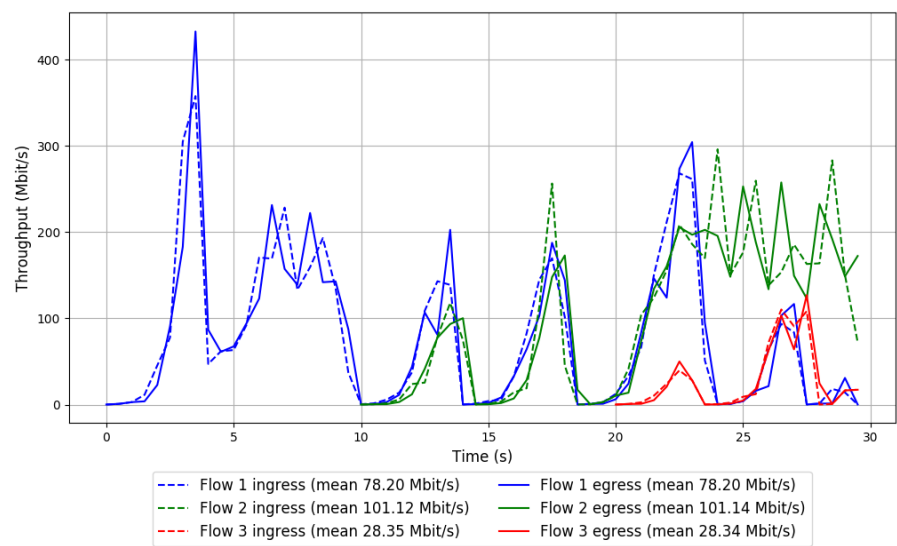
-- Flow 3:

Average throughput: 28.34 Mbit/s

95th percentile per-packet one-way delay: 155.961 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-12-06 12:49:28

End at: 2017-12-06 12:49:58

Below is generated by plot.py at 2017-12-06 15:55:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 180.60 Mbit/s

95th percentile per-packet one-way delay: 347.136 ms

Loss rate: 9.64%

-- Flow 1:

Average throughput: 78.09 Mbit/s

95th percentile per-packet one-way delay: 376.458 ms

Loss rate: 15.39%

-- Flow 2:

Average throughput: 106.01 Mbit/s

95th percentile per-packet one-way delay: 272.672 ms

Loss rate: 2.74%

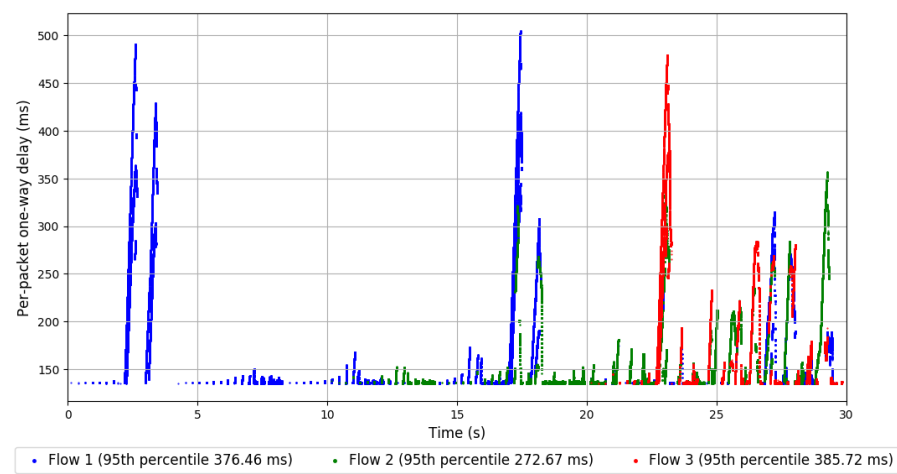
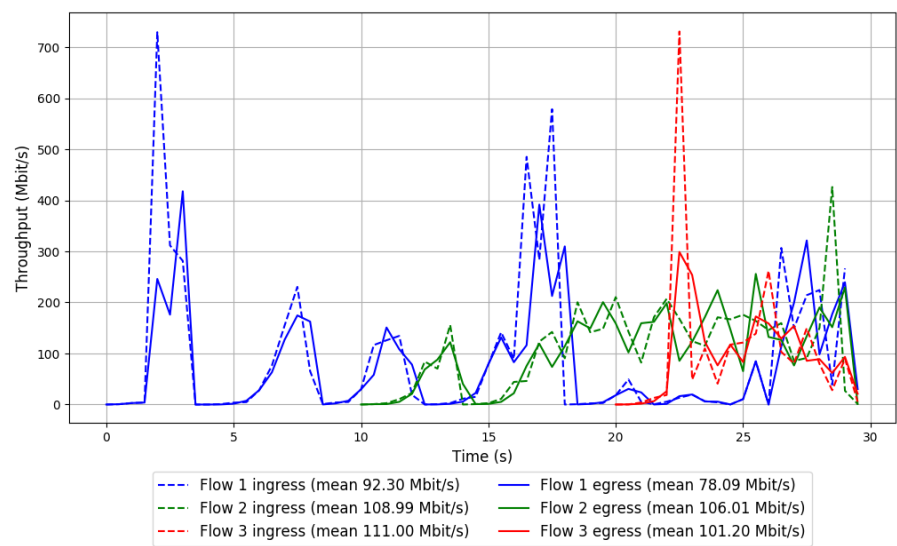
-- Flow 3:

Average throughput: 101.20 Mbit/s

95th percentile per-packet one-way delay: 385.721 ms

Loss rate: 8.83%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-12-06 13:03:36

End at: 2017-12-06 13:04:06

Below is generated by plot.py at 2017-12-06 15:55:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 264.62 Mbit/s

95th percentile per-packet one-way delay: 236.006 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 167.02 Mbit/s

95th percentile per-packet one-way delay: 200.592 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 132.02 Mbit/s

95th percentile per-packet one-way delay: 271.667 ms

Loss rate: 1.16%

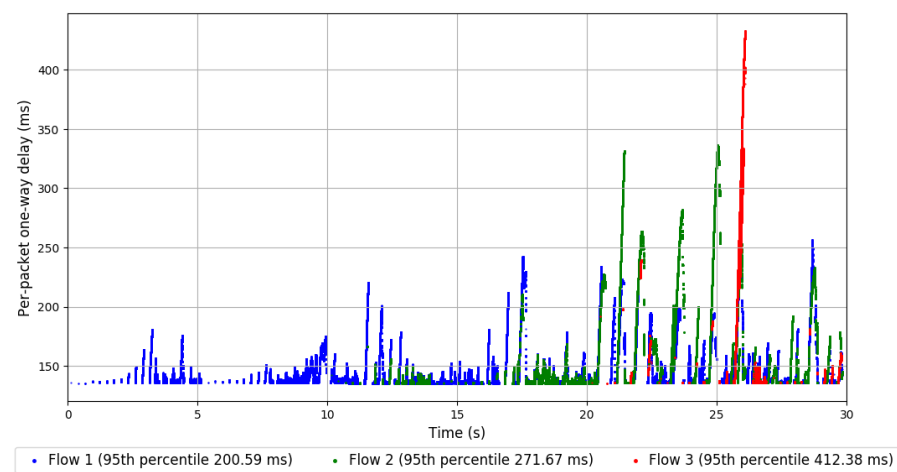
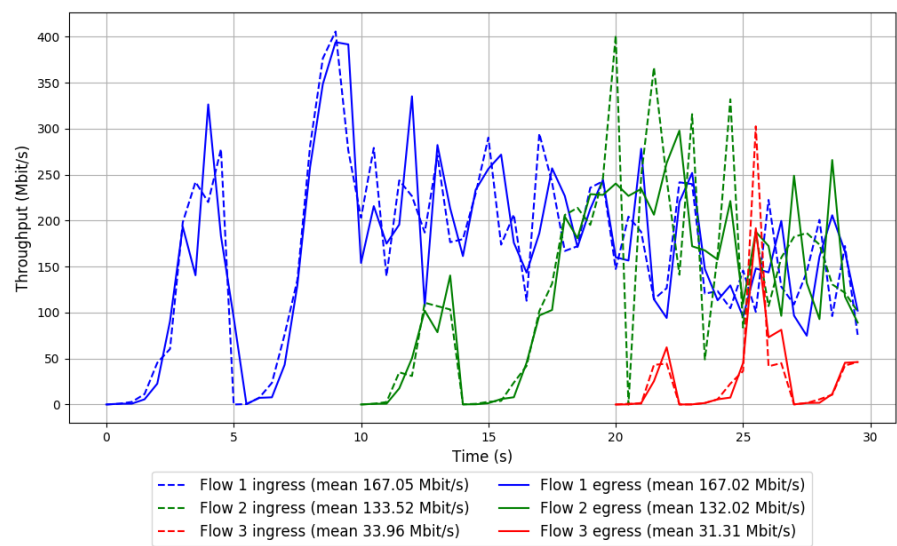
-- Flow 3:

Average throughput: 31.31 Mbit/s

95th percentile per-packet one-way delay: 412.375 ms

Loss rate: 7.60%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-12-06 13:17:57

End at: 2017-12-06 13:18:27

Below is generated by plot.py at 2017-12-06 15:55:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 222.34 Mbit/s

95th percentile per-packet one-way delay: 288.503 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 176.26 Mbit/s

95th percentile per-packet one-way delay: 292.075 ms

Loss rate: 1.50%

-- Flow 2:

Average throughput: 34.98 Mbit/s

95th percentile per-packet one-way delay: 289.643 ms

Loss rate: 0.39%

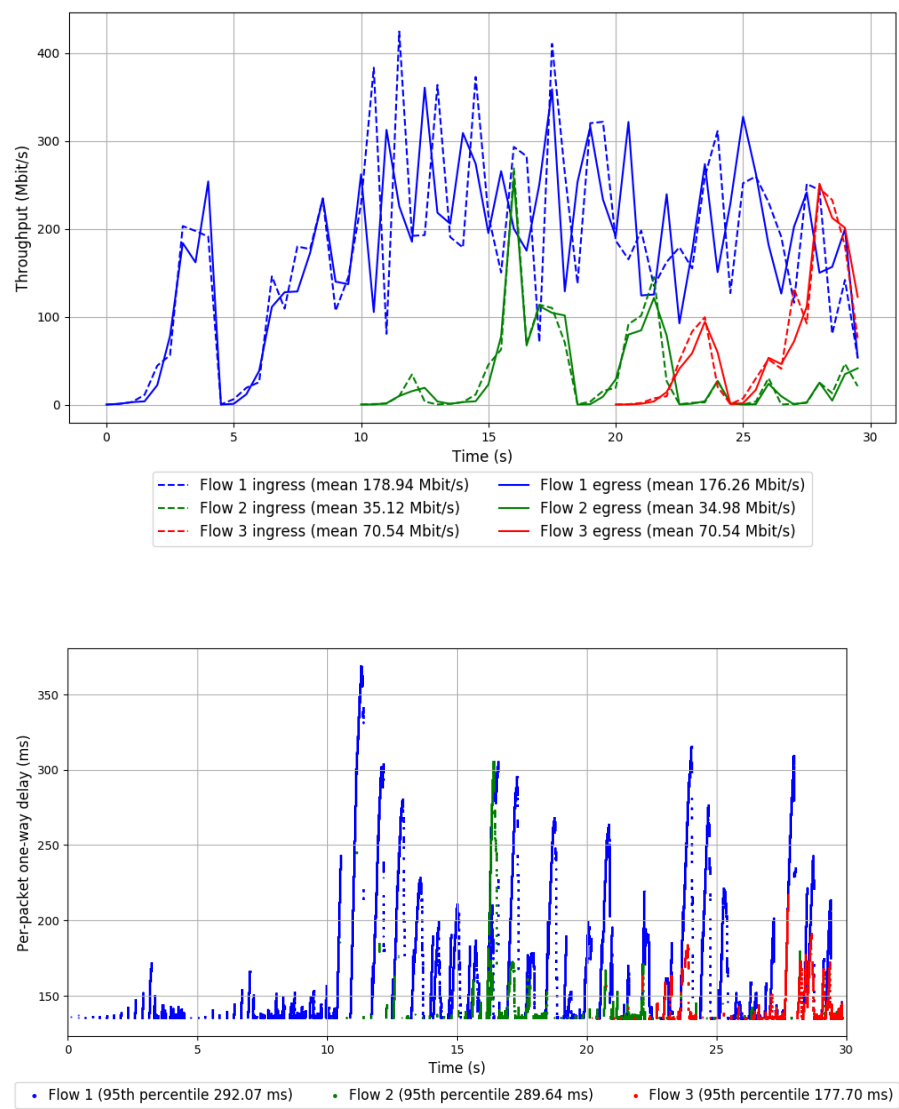
-- Flow 3:

Average throughput: 70.54 Mbit/s

95th percentile per-packet one-way delay: 177.702 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-12-06 13:32:03

End at: 2017-12-06 13:32:33

Below is generated by plot.py at 2017-12-06 15:55:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 199.20 Mbit/s

95th percentile per-packet one-way delay: 198.389 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 155.34 Mbit/s

95th percentile per-packet one-way delay: 167.358 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 46.24 Mbit/s

95th percentile per-packet one-way delay: 352.226 ms

Loss rate: 7.19%

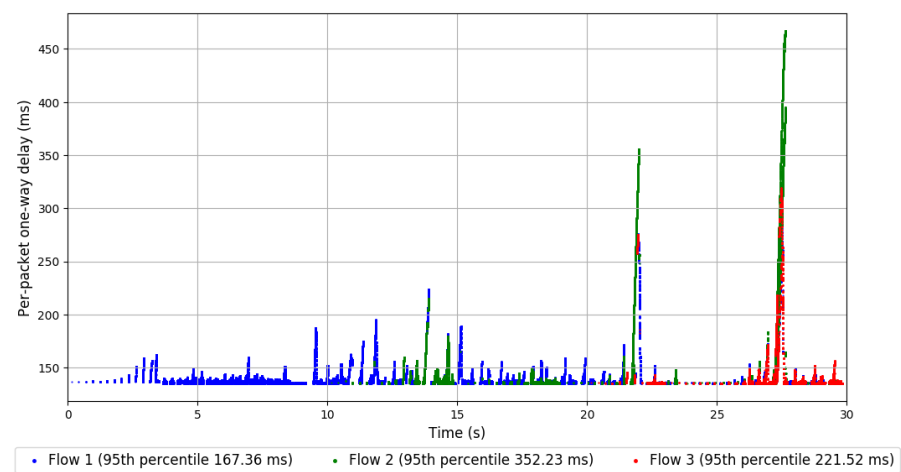
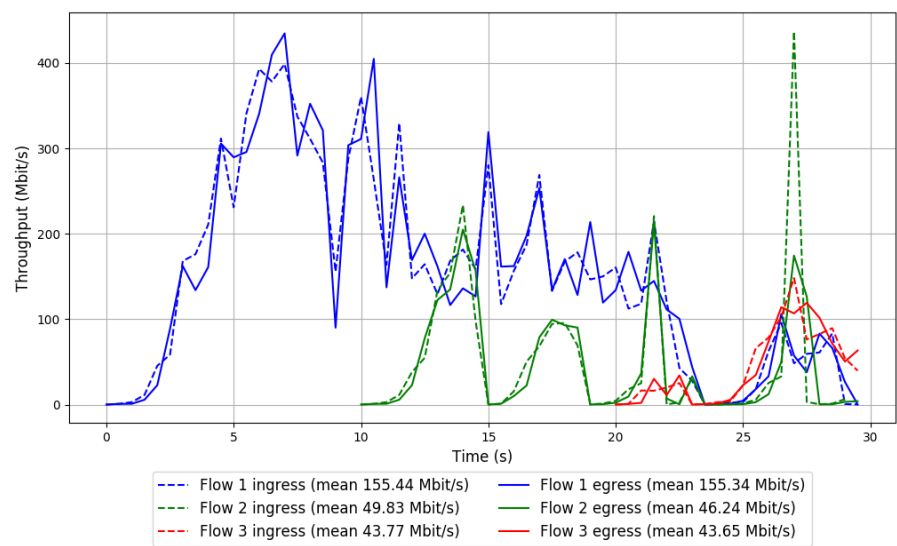
-- Flow 3:

Average throughput: 43.65 Mbit/s

95th percentile per-packet one-way delay: 221.518 ms

Loss rate: 0.30%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-12-06 13:46:01

End at: 2017-12-06 13:46:31

Below is generated by plot.py at 2017-12-06 15:55:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 131.31 Mbit/s

95th percentile per-packet one-way delay: 335.701 ms

Loss rate: 5.49%

-- Flow 1:

Average throughput: 89.57 Mbit/s

95th percentile per-packet one-way delay: 201.897 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 45.62 Mbit/s

95th percentile per-packet one-way delay: 411.924 ms

Loss rate: 20.17%

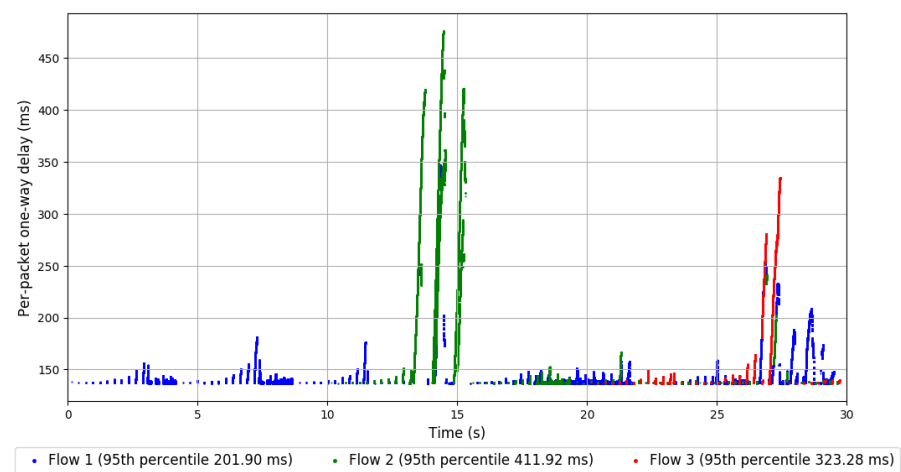
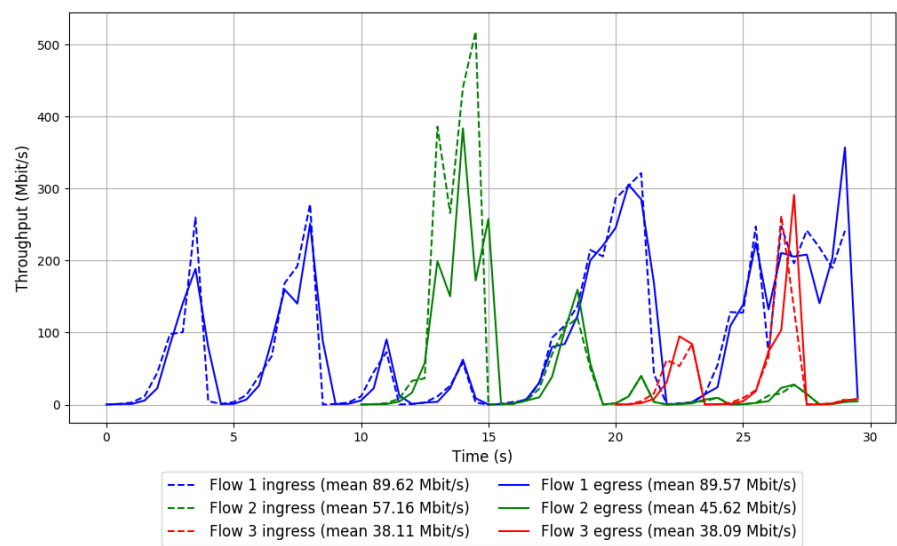
-- Flow 3:

Average throughput: 38.09 Mbit/s

95th percentile per-packet one-way delay: 323.276 ms

Loss rate: 0.05%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-12-06 13:59:42

End at: 2017-12-06 14:00:12

Below is generated by plot.py at 2017-12-06 15:55:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 141.07 Mbit/s

95th percentile per-packet one-way delay: 179.923 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 87.20 Mbit/s

95th percentile per-packet one-way delay: 162.831 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 57.26 Mbit/s

95th percentile per-packet one-way delay: 225.622 ms

Loss rate: 0.00%

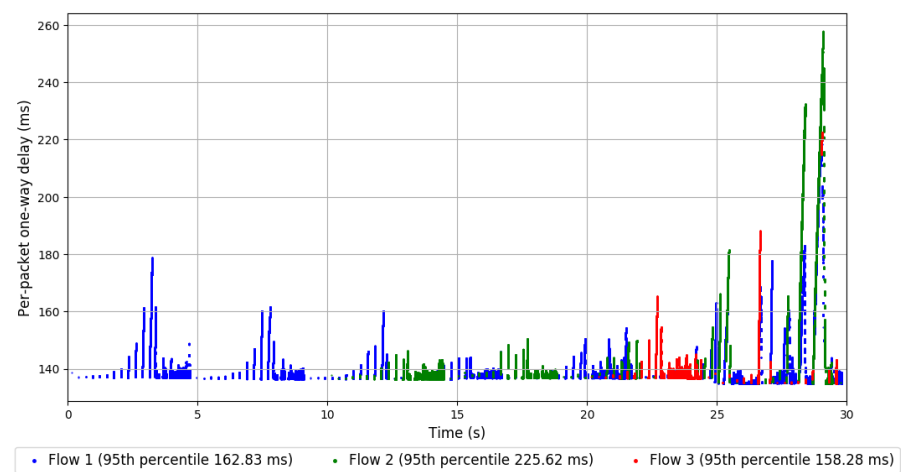
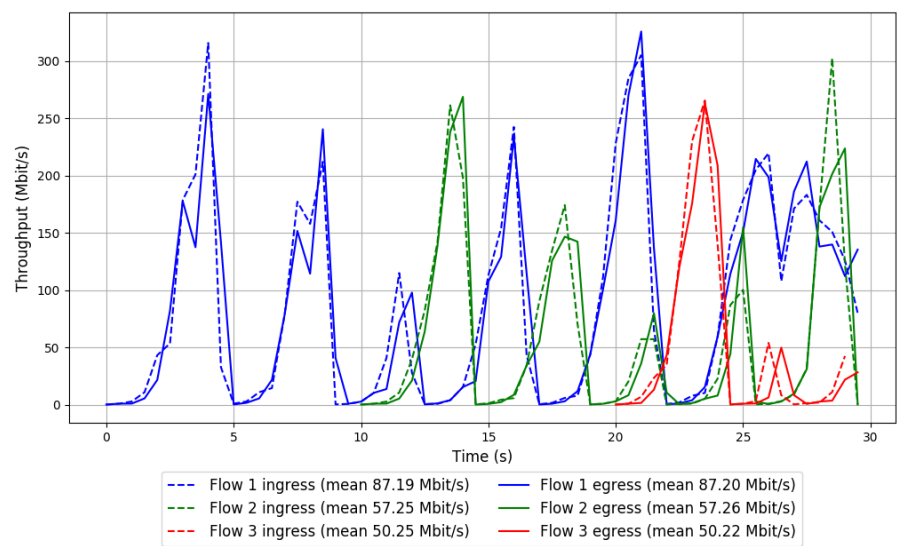
-- Flow 3:

Average throughput: 50.22 Mbit/s

95th percentile per-packet one-way delay: 158.276 ms

Loss rate: 0.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-12-06 14:13:38

End at: 2017-12-06 14:14:08

Below is generated by plot.py at 2017-12-06 15:56:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 161.45 Mbit/s

95th percentile per-packet one-way delay: 199.941 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 98.67 Mbit/s

95th percentile per-packet one-way delay: 223.970 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 60.24 Mbit/s

95th percentile per-packet one-way delay: 152.250 ms

Loss rate: 0.17%

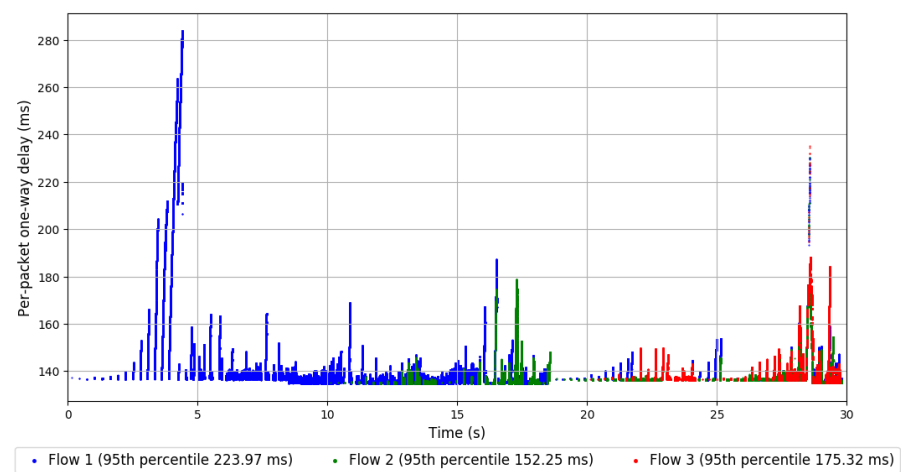
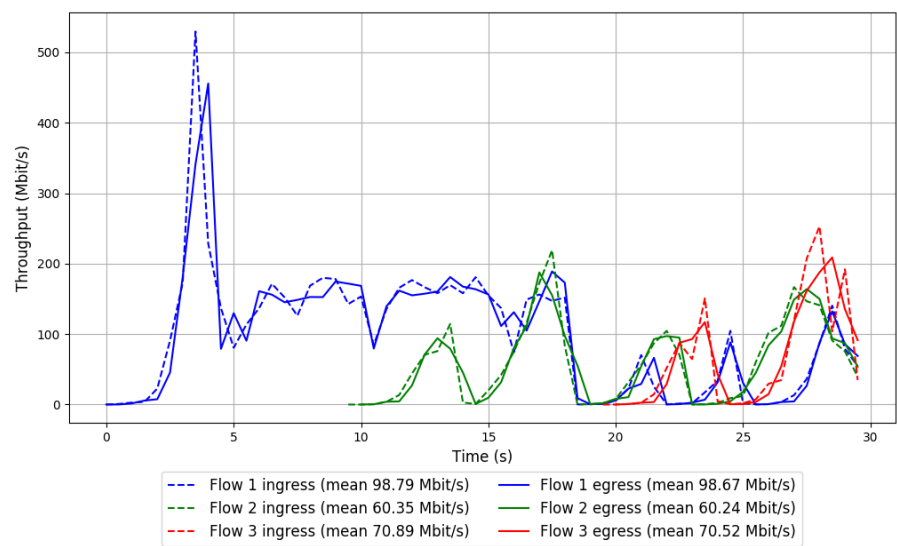
-- Flow 3:

Average throughput: 70.52 Mbit/s

95th percentile per-packet one-way delay: 175.324 ms

Loss rate: 0.54%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-12-06 14:27:28

End at: 2017-12-06 14:27:58

Below is generated by plot.py at 2017-12-06 15:56:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 169.48 Mbit/s

95th percentile per-packet one-way delay: 230.229 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 108.45 Mbit/s

95th percentile per-packet one-way delay: 157.538 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 68.30 Mbit/s

95th percentile per-packet one-way delay: 223.825 ms

Loss rate: 0.12%

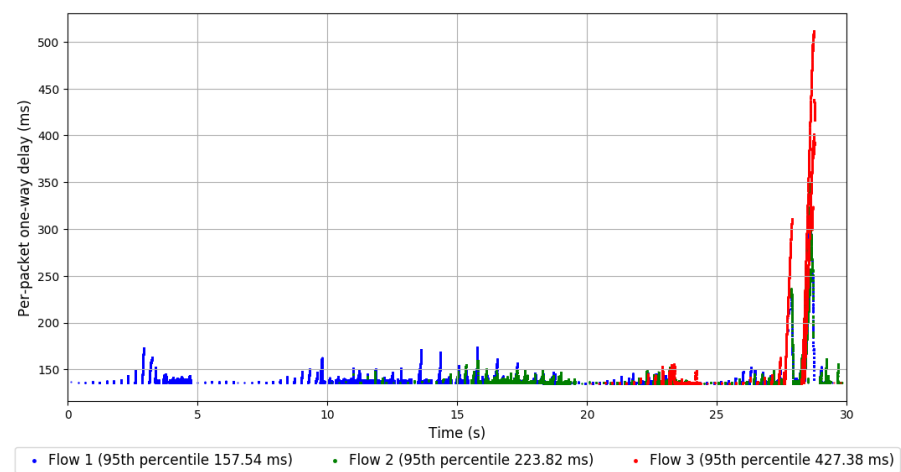
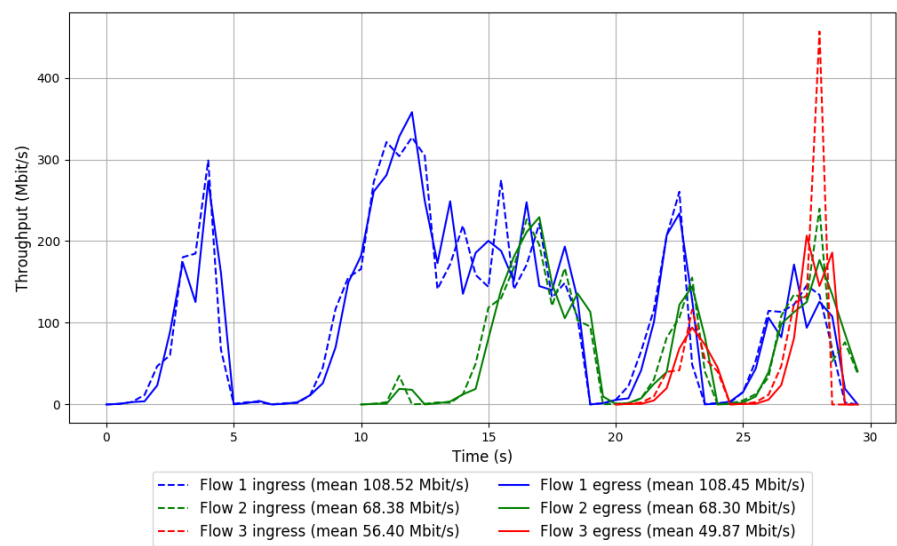
-- Flow 3:

Average throughput: 49.87 Mbit/s

95th percentile per-packet one-way delay: 427.381 ms

Loss rate: 11.57%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-12-06 12:25:55

End at: 2017-12-06 12:26:25

Below is generated by plot.py at 2017-12-06 15:57:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.54 Mbit/s

95th percentile per-packet one-way delay: 137.198 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 71.84 Mbit/s

95th percentile per-packet one-way delay: 137.240 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 65.40 Mbit/s

95th percentile per-packet one-way delay: 137.056 ms

Loss rate: 0.00%

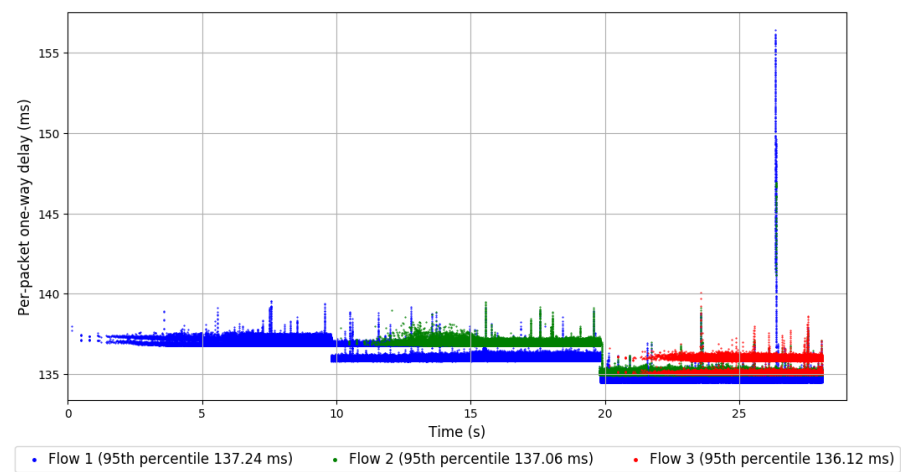
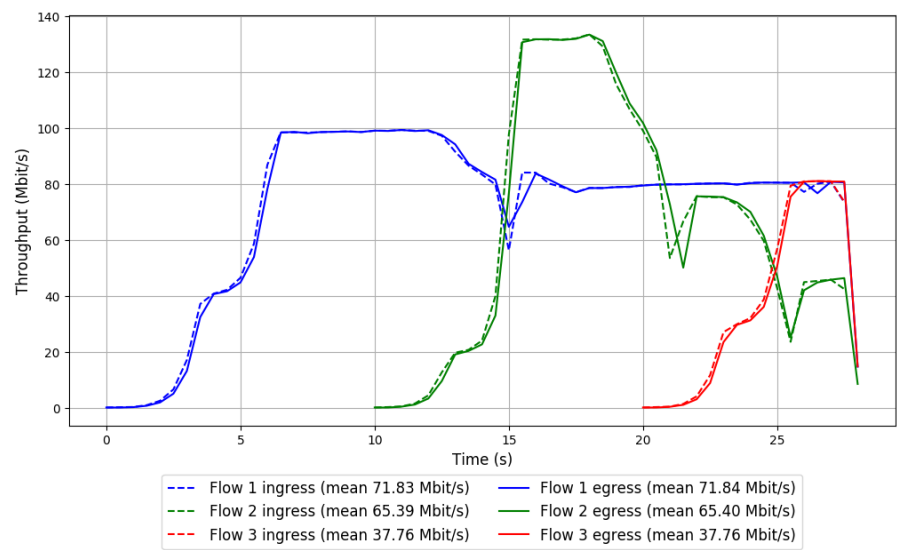
-- Flow 3:

Average throughput: 37.76 Mbit/s

95th percentile per-packet one-way delay: 136.115 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

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

End at: 2017-12-06 12:40:19

Below is generated by plot.py at 2017-12-06 15:58:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.71 Mbit/s

95th percentile per-packet one-way delay: 136.555 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 70.04 Mbit/s

95th percentile per-packet one-way delay: 136.546 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.83 Mbit/s

95th percentile per-packet one-way delay: 136.898 ms

Loss rate: 0.00%

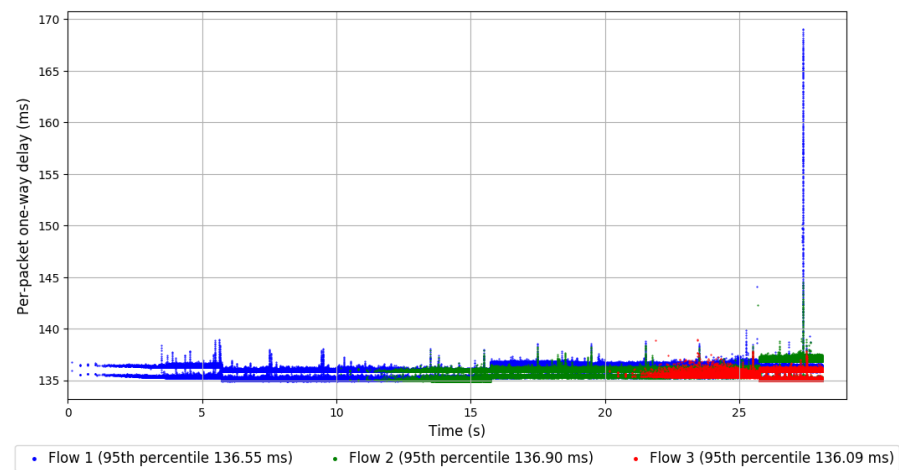
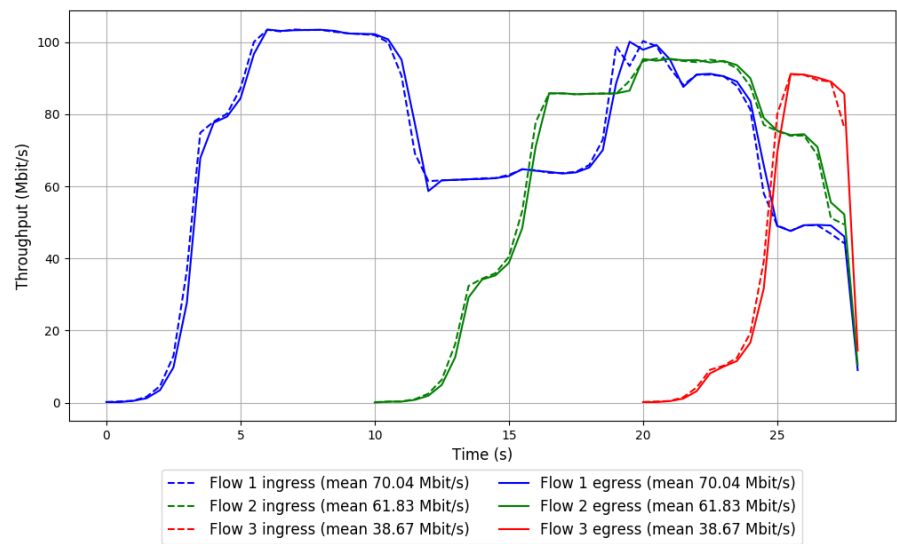
-- Flow 3:

Average throughput: 38.67 Mbit/s

95th percentile per-packet one-way delay: 136.086 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-12-06 12:53:57

End at: 2017-12-06 12:54:27

Below is generated by plot.py at 2017-12-06 15:58:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 118.69 Mbit/s

95th percentile per-packet one-way delay: 136.382 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.36 Mbit/s

95th percentile per-packet one-way delay: 136.408 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 64.61 Mbit/s

95th percentile per-packet one-way delay: 135.533 ms

Loss rate: 0.00%

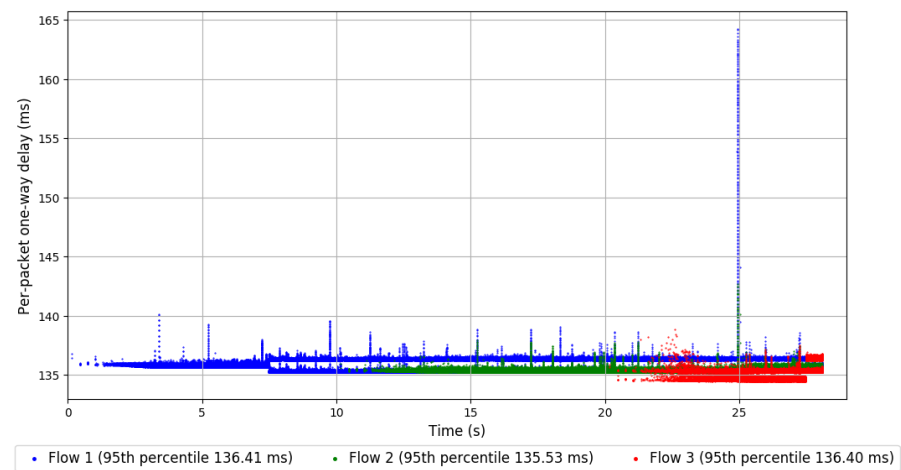
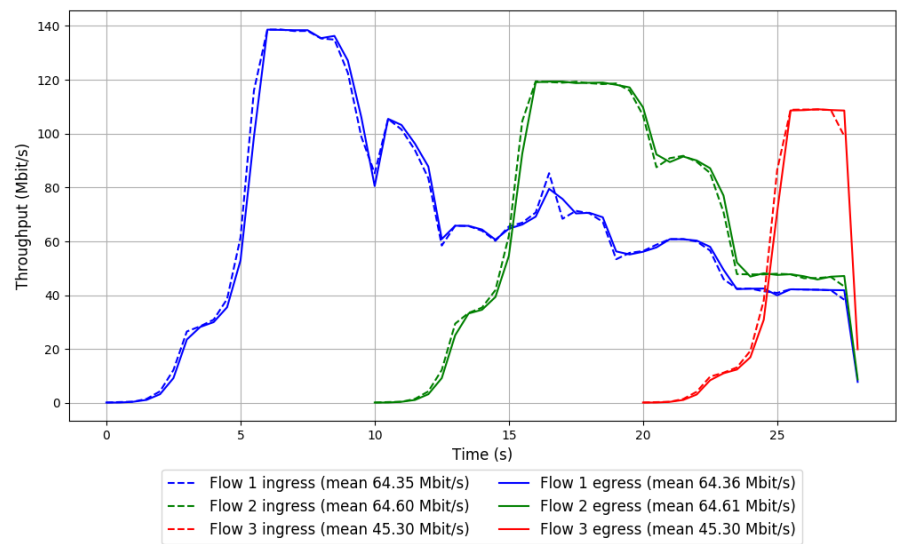
-- Flow 3:

Average throughput: 45.30 Mbit/s

95th percentile per-packet one-way delay: 136.398 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-12-06 13:08:11

End at: 2017-12-06 13:08:41

Below is generated by plot.py at 2017-12-06 15:58:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.19 Mbit/s

95th percentile per-packet one-way delay: 136.372 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 51.22 Mbit/s

95th percentile per-packet one-way delay: 136.544 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 66.61 Mbit/s

95th percentile per-packet one-way delay: 136.148 ms

Loss rate: 0.00%

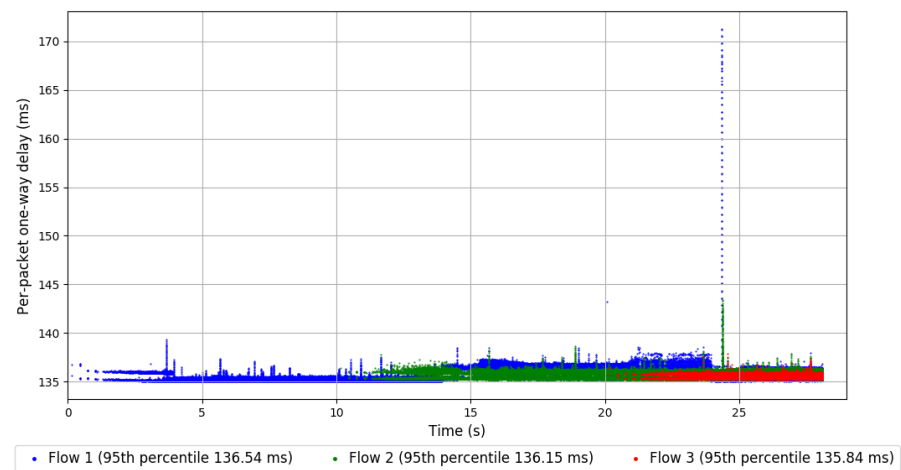
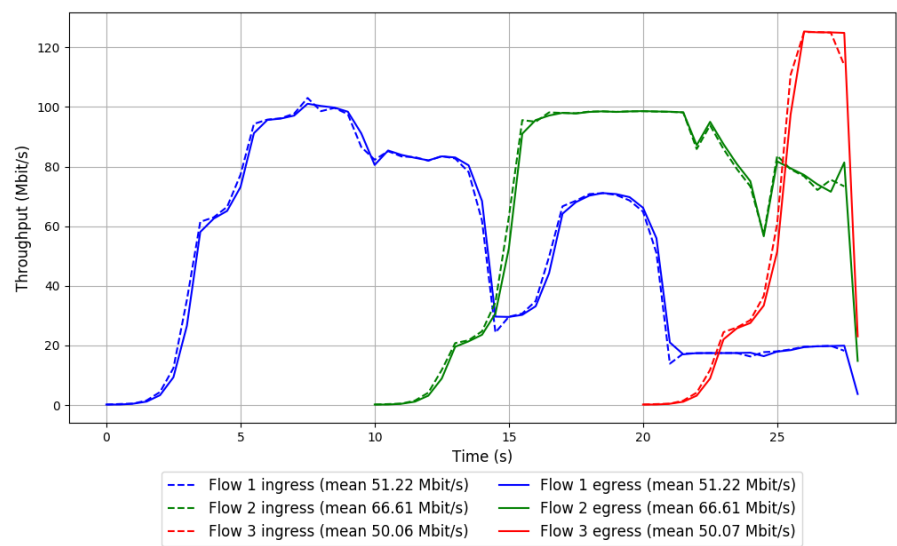
-- Flow 3:

Average throughput: 50.07 Mbit/s

95th percentile per-packet one-way delay: 135.838 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-12-06 13:22:24

End at: 2017-12-06 13:22:54

Below is generated by plot.py at 2017-12-06 15:58:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 115.68 Mbit/s

95th percentile per-packet one-way delay: 136.835 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 68.04 Mbit/s

95th percentile per-packet one-way delay: 136.467 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 56.16 Mbit/s

95th percentile per-packet one-way delay: 136.476 ms

Loss rate: 0.30%

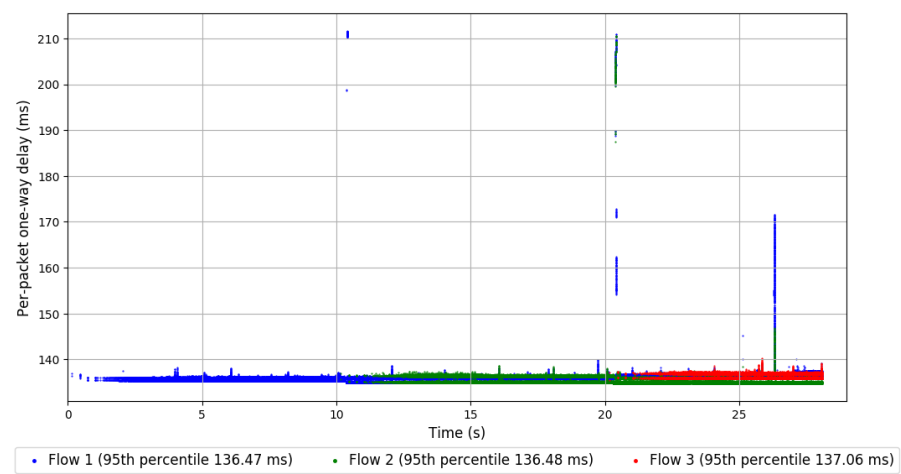
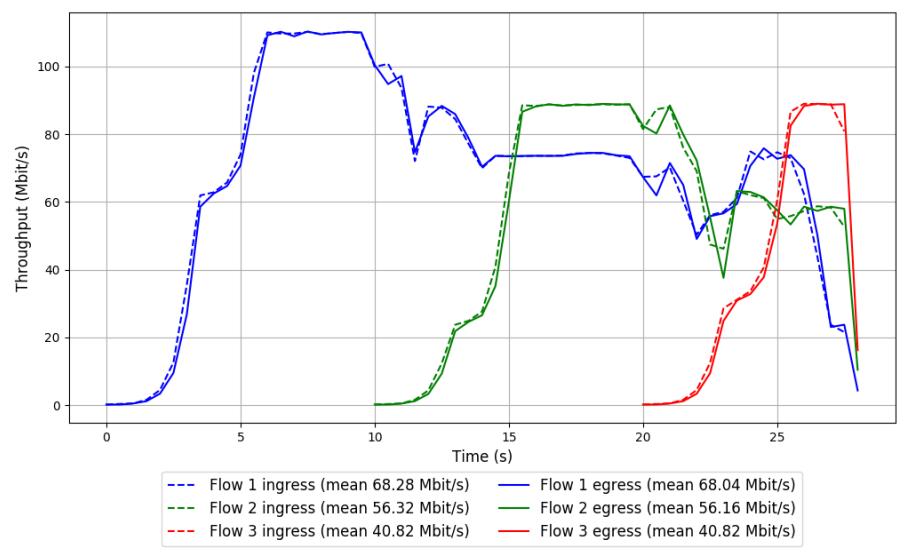
-- Flow 3:

Average throughput: 40.82 Mbit/s

95th percentile per-packet one-way delay: 137.064 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-12-06 13:36:33

End at: 2017-12-06 13:37:03

Below is generated by plot.py at 2017-12-06 15:58:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.66 Mbit/s

95th percentile per-packet one-way delay: 137.347 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 68.69 Mbit/s

95th percentile per-packet one-way delay: 137.352 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 137.684 ms

Loss rate: 0.00%

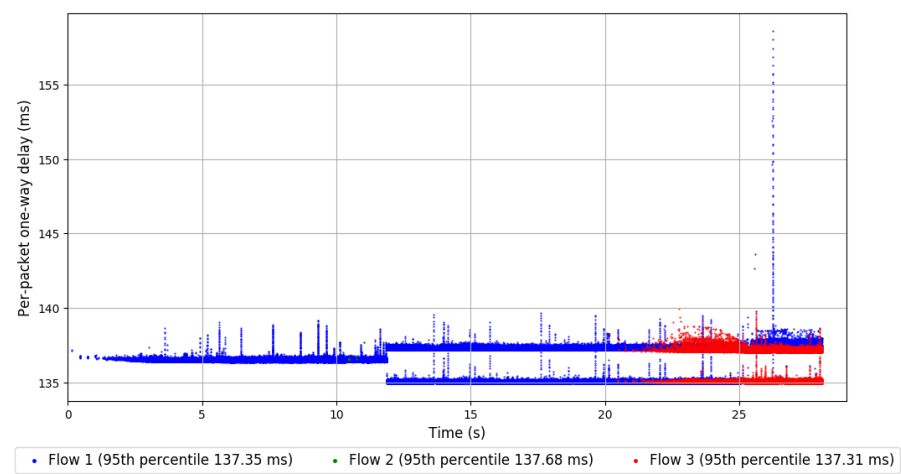
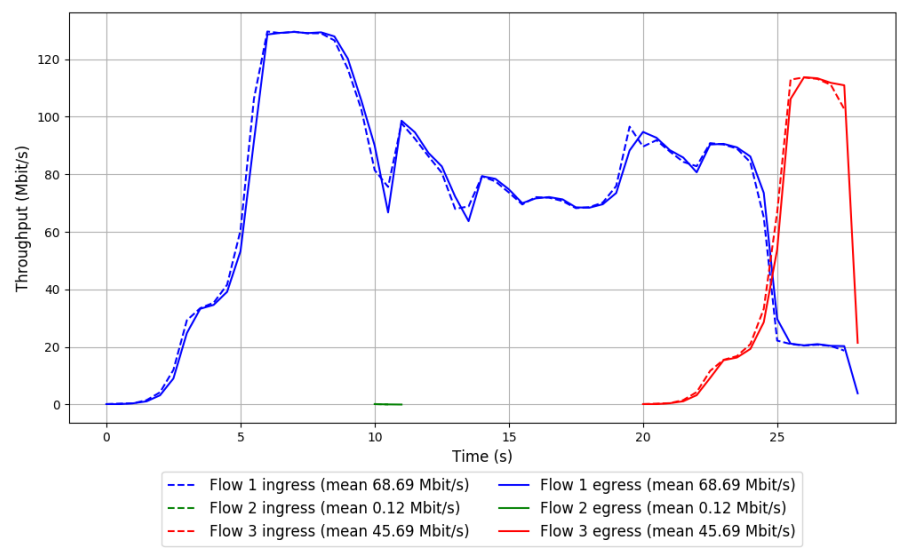
-- Flow 3:

Average throughput: 45.69 Mbit/s

95th percentile per-packet one-way delay: 137.310 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-12-06 13:50:27

End at: 2017-12-06 13:50:57

Below is generated by plot.py at 2017-12-06 15:59:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 113.98 Mbit/s

95th percentile per-packet one-way delay: 137.152 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.36 Mbit/s

95th percentile per-packet one-way delay: 137.003 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.28 Mbit/s

95th percentile per-packet one-way delay: 137.244 ms

Loss rate: 0.00%

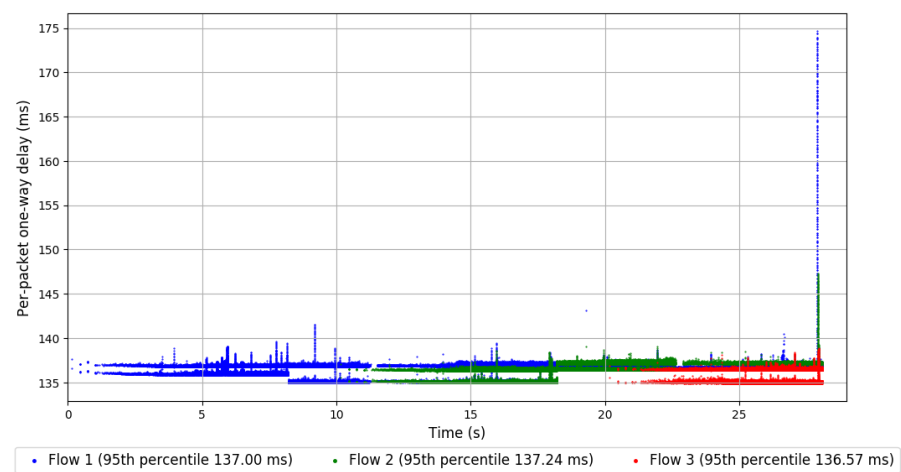
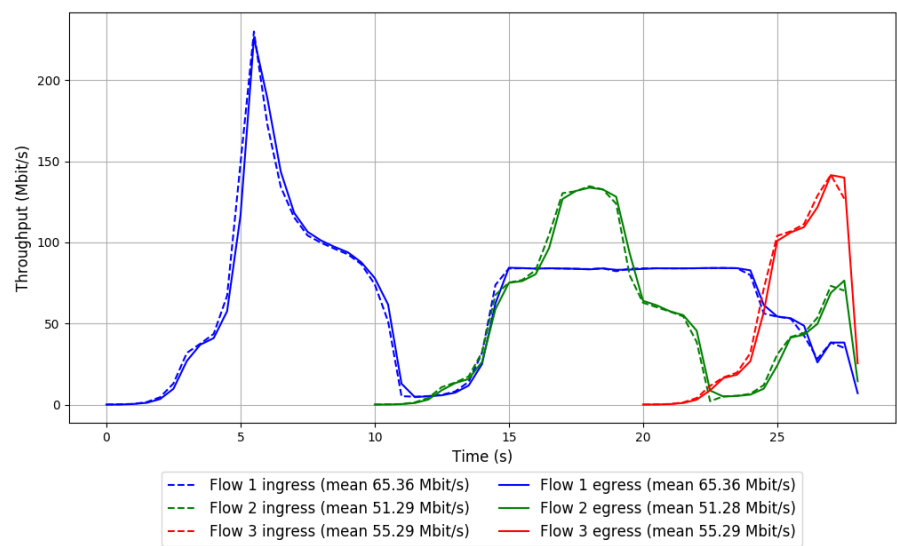
-- Flow 3:

Average throughput: 55.29 Mbit/s

95th percentile per-packet one-way delay: 136.575 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-12-06 14:04:08

End at: 2017-12-06 14:04:38

Below is generated by plot.py at 2017-12-06 15:59:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 110.78 Mbit/s

95th percentile per-packet one-way delay: 136.706 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 74.88 Mbit/s

95th percentile per-packet one-way delay: 136.484 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.24 Mbit/s

95th percentile per-packet one-way delay: 136.899 ms

Loss rate: 0.00%

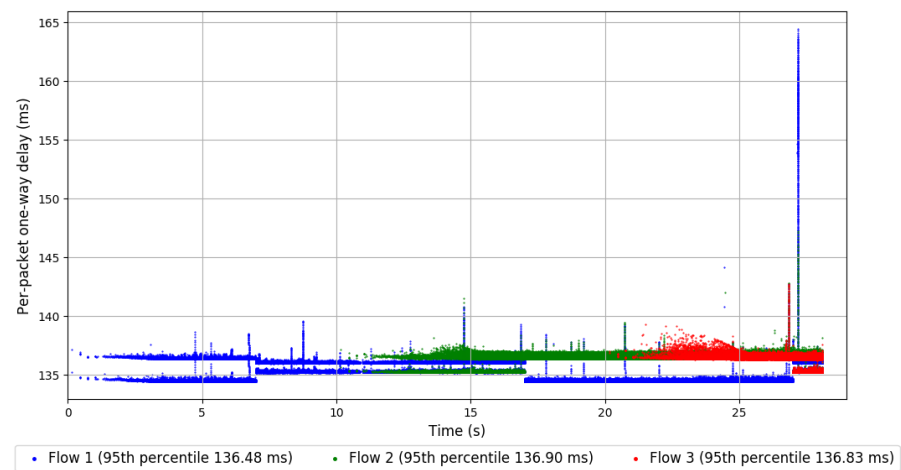
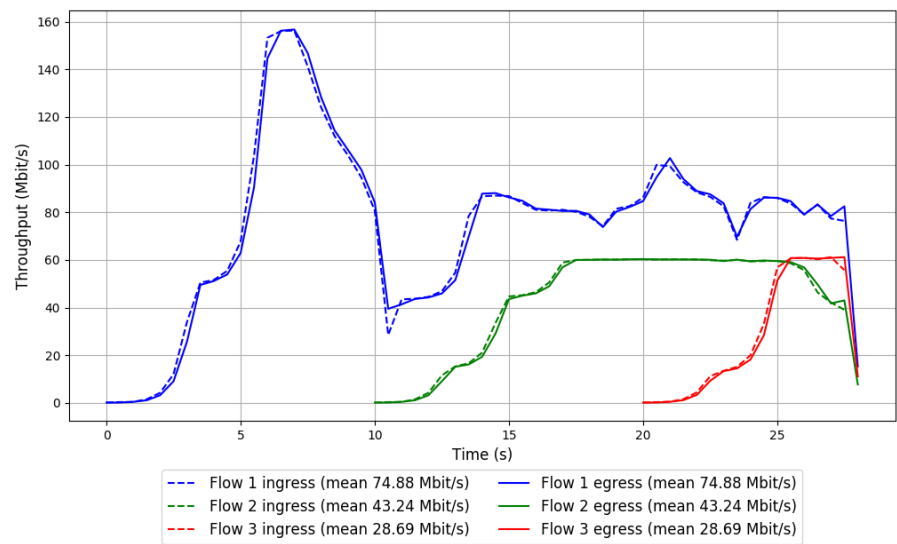
-- Flow 3:

Average throughput: 28.69 Mbit/s

95th percentile per-packet one-way delay: 136.834 ms

Loss rate: 0.01%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-12-06 14:18:04

End at: 2017-12-06 14:18:34

Below is generated by plot.py at 2017-12-06 16:00:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 116.20 Mbit/s

95th percentile per-packet one-way delay: 137.040 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 77.66 Mbit/s

95th percentile per-packet one-way delay: 137.024 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.92 Mbit/s

95th percentile per-packet one-way delay: 137.086 ms

Loss rate: 0.00%

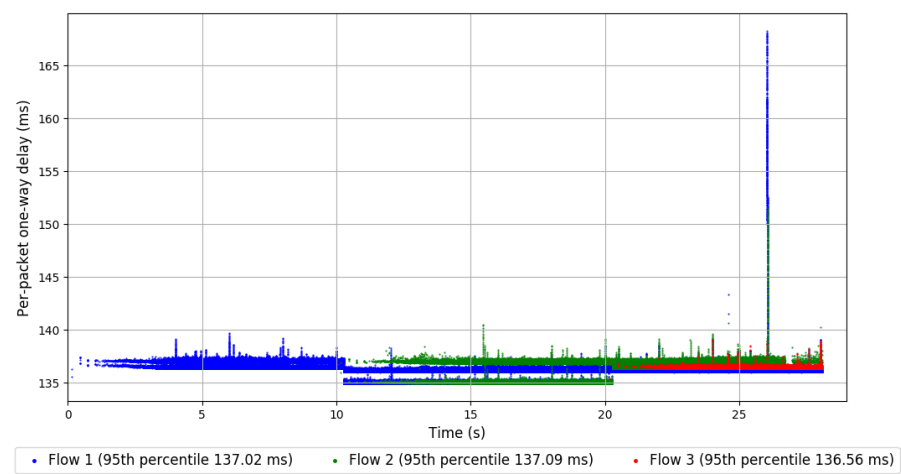
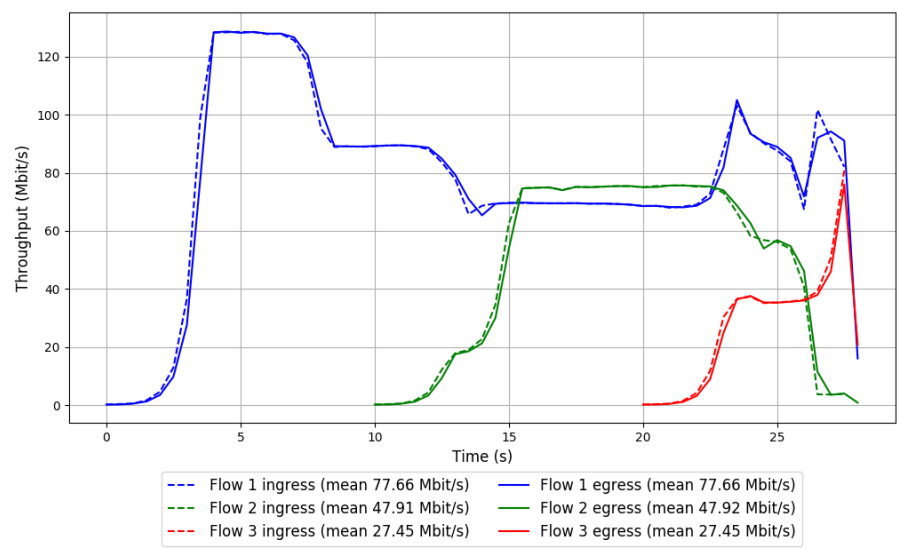
-- Flow 3:

Average throughput: 27.45 Mbit/s

95th percentile per-packet one-way delay: 136.558 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-12-06 14:31:56

End at: 2017-12-06 14:32:26

Below is generated by plot.py at 2017-12-06 16:01:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 119.69 Mbit/s

95th percentile per-packet one-way delay: 137.015 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 74.30 Mbit/s

95th percentile per-packet one-way delay: 136.684 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 54.38 Mbit/s

95th percentile per-packet one-way delay: 137.122 ms

Loss rate: 0.00%

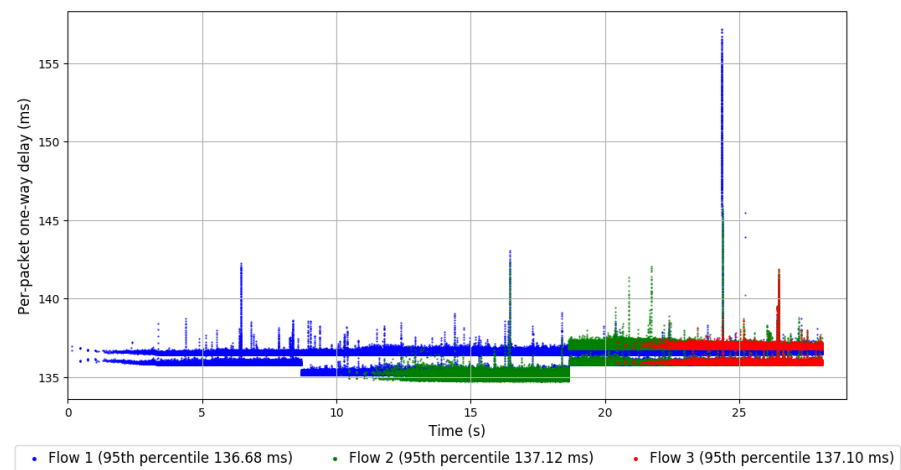
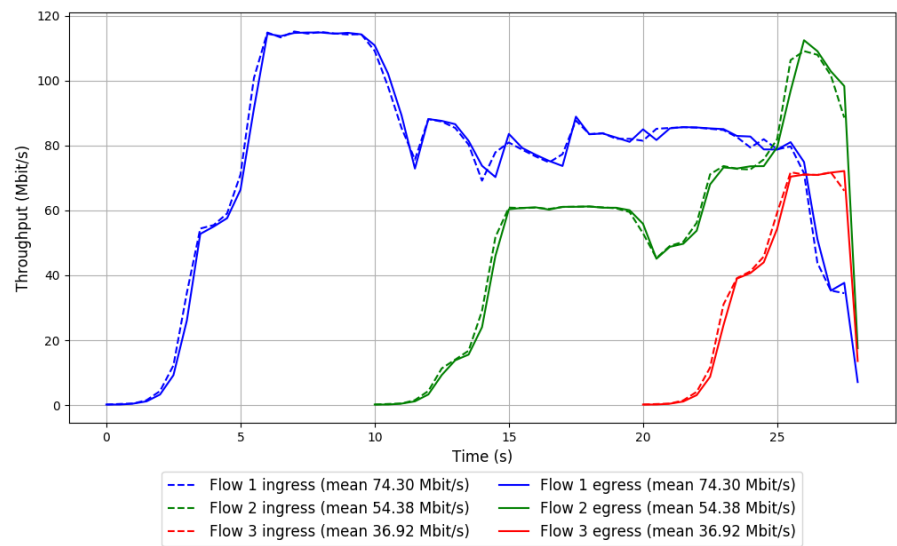
-- Flow 3:

Average throughput: 36.92 Mbit/s

95th percentile per-packet one-way delay: 137.099 ms

Loss rate: 0.01%

Run 10: Report of Copa — Data Link

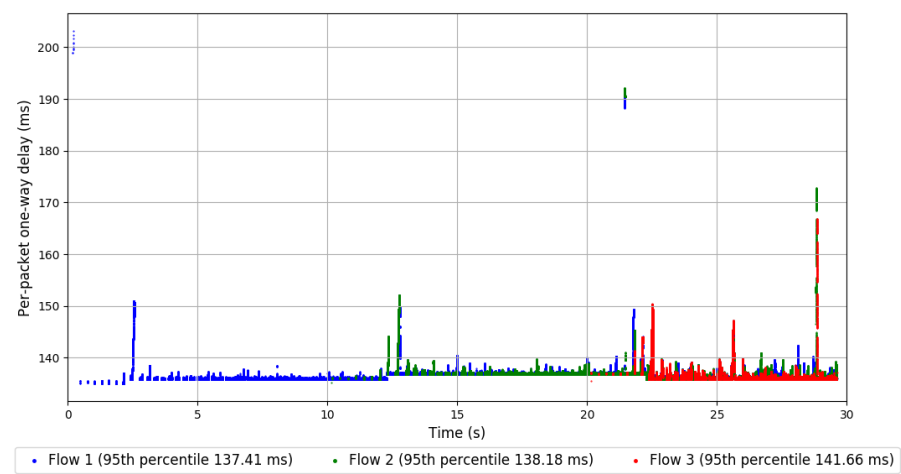
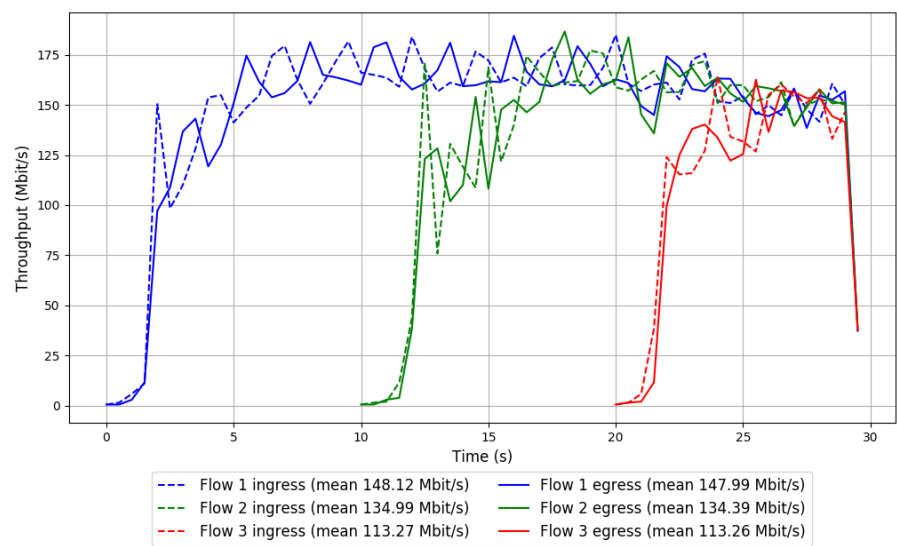


```
Run 1: Statistics of Indigo

Start at: 2017-12-06 12:18:54
End at: 2017-12-06 12:19:24

# Below is generated by plot.py at 2017-12-06 16:02:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 273.25 Mbit/s
95th percentile per-packet one-way delay: 137.937 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 147.99 Mbit/s
95th percentile per-packet one-way delay: 137.413 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 134.39 Mbit/s
95th percentile per-packet one-way delay: 138.176 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 113.26 Mbit/s
95th percentile per-packet one-way delay: 141.655 ms
Loss rate: 0.01%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-12-06 12:32:57

End at: 2017-12-06 12:33:27

Below is generated by plot.py at 2017-12-06 16:02:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 281.00 Mbit/s

95th percentile per-packet one-way delay: 137.019 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 150.32 Mbit/s

95th percentile per-packet one-way delay: 136.973 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 142.36 Mbit/s

95th percentile per-packet one-way delay: 137.844 ms

Loss rate: 0.00%

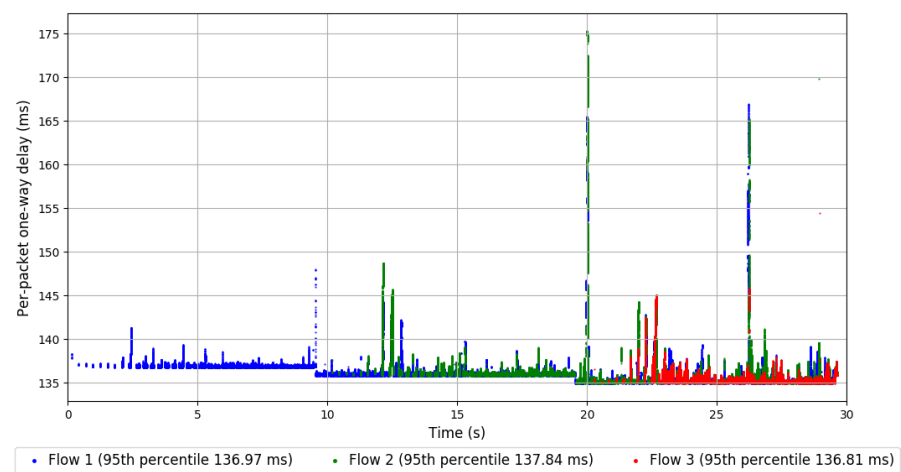
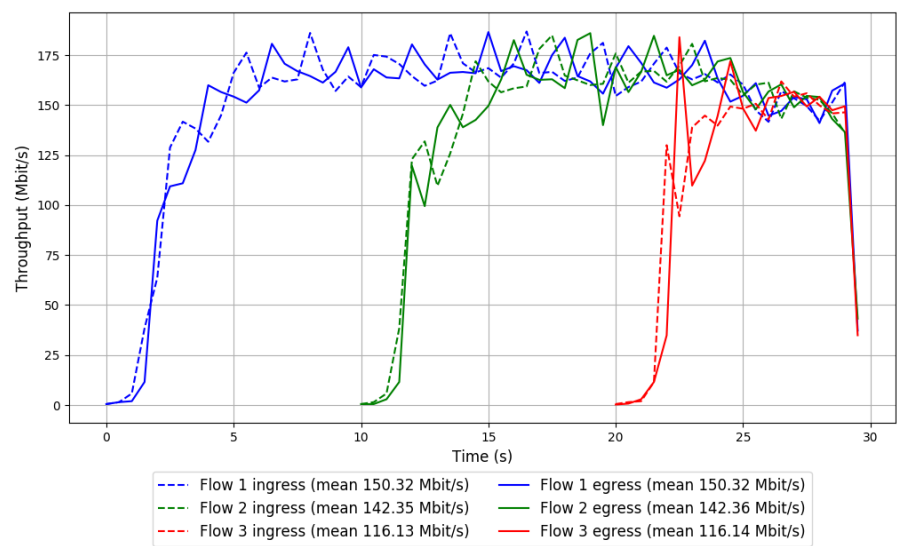
-- Flow 3:

Average throughput: 116.14 Mbit/s

95th percentile per-packet one-way delay: 136.815 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

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

End at: 2017-12-06 12:47:37

Below is generated by plot.py at 2017-12-06 16:03:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 278.76 Mbit/s

95th percentile per-packet one-way delay: 137.252 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 151.50 Mbit/s

95th percentile per-packet one-way delay: 136.491 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 142.57 Mbit/s

95th percentile per-packet one-way delay: 137.540 ms

Loss rate: 0.00%

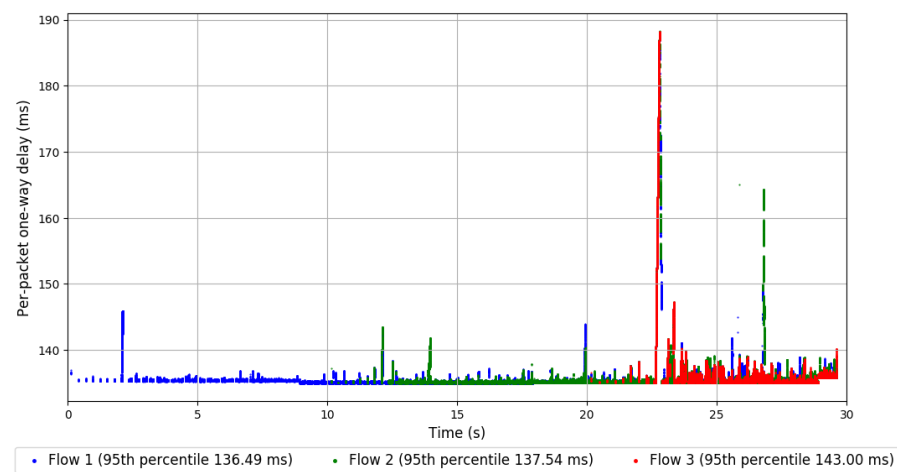
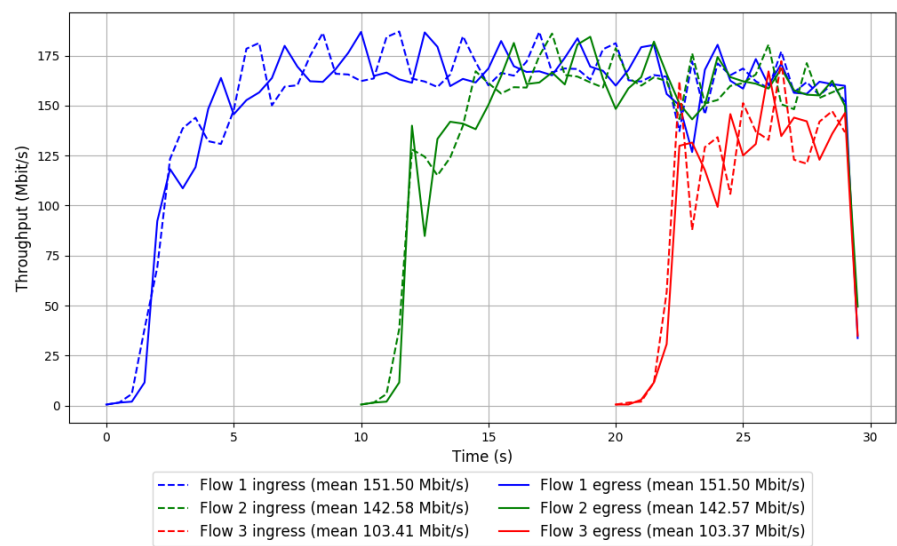
-- Flow 3:

Average throughput: 103.37 Mbit/s

95th percentile per-packet one-way delay: 143.000 ms

Loss rate: 0.01%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-12-06 13:01:14

End at: 2017-12-06 13:01:44

Below is generated by plot.py at 2017-12-06 16:03:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 277.51 Mbit/s

95th percentile per-packet one-way delay: 138.399 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 149.70 Mbit/s

95th percentile per-packet one-way delay: 138.702 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 139.29 Mbit/s

95th percentile per-packet one-way delay: 136.986 ms

Loss rate: 0.00%

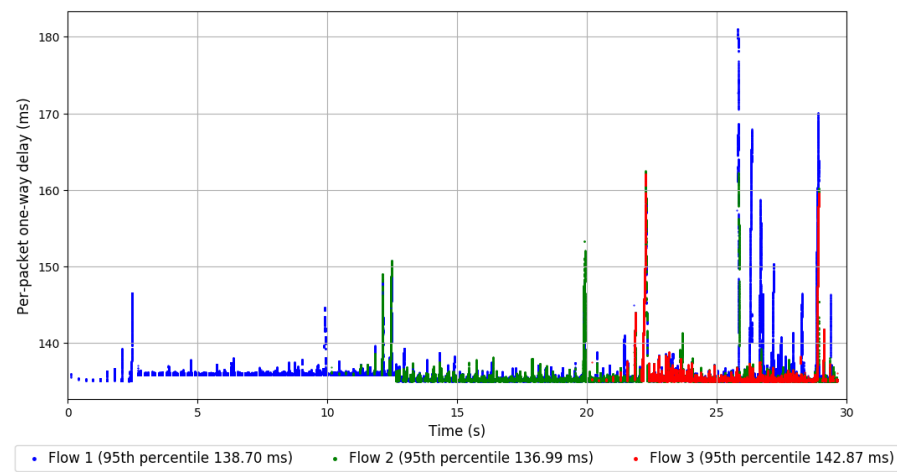
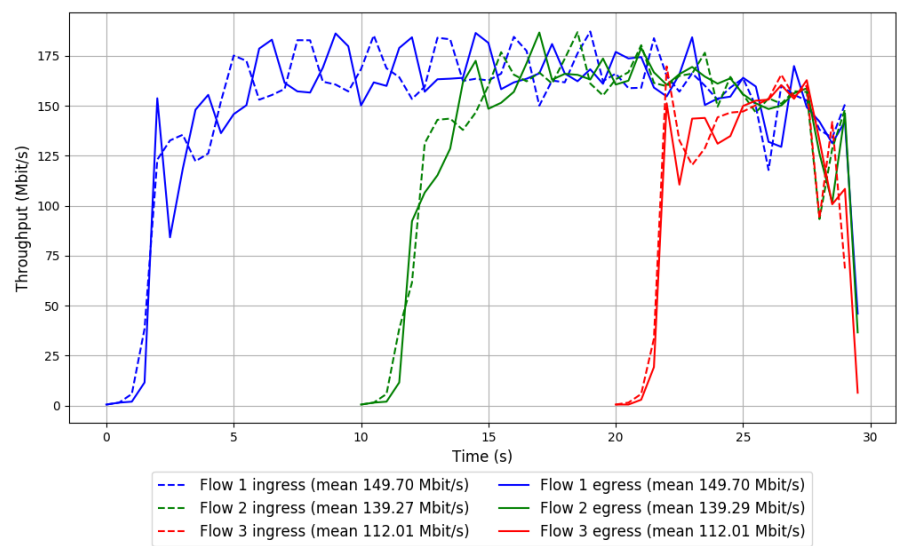
-- Flow 3:

Average throughput: 112.01 Mbit/s

95th percentile per-packet one-way delay: 142.872 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-12-06 13:15:33

End at: 2017-12-06 13:16:03

Below is generated by plot.py at 2017-12-06 16:04:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 268.35 Mbit/s

95th percentile per-packet one-way delay: 136.613 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 151.37 Mbit/s

95th percentile per-packet one-way delay: 135.940 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 120.14 Mbit/s

95th percentile per-packet one-way delay: 138.258 ms

Loss rate: 0.00%

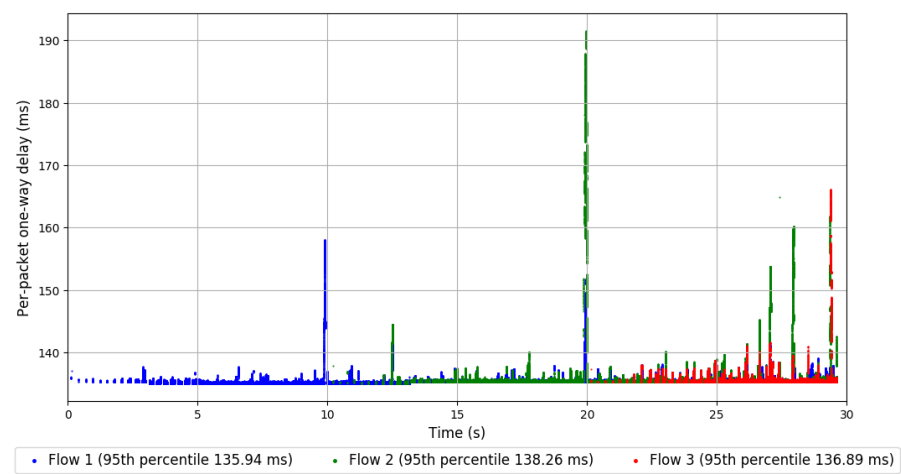
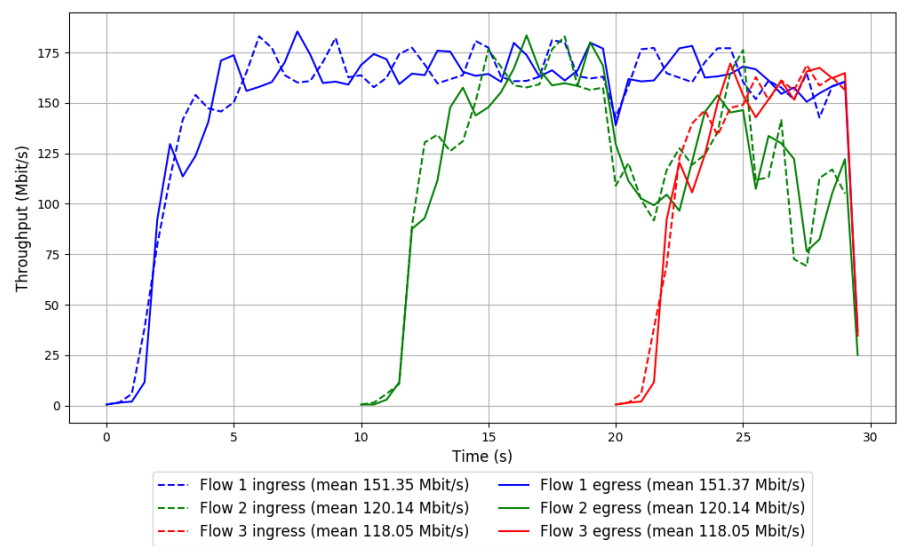
-- Flow 3:

Average throughput: 118.05 Mbit/s

95th percentile per-packet one-way delay: 136.886 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-12-06 13:29:40

End at: 2017-12-06 13:30:10

Below is generated by plot.py at 2017-12-06 16:04:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 281.58 Mbit/s

95th percentile per-packet one-way delay: 137.408 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 152.00 Mbit/s

95th percentile per-packet one-way delay: 136.725 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 140.88 Mbit/s

95th percentile per-packet one-way delay: 140.054 ms

Loss rate: 0.04%

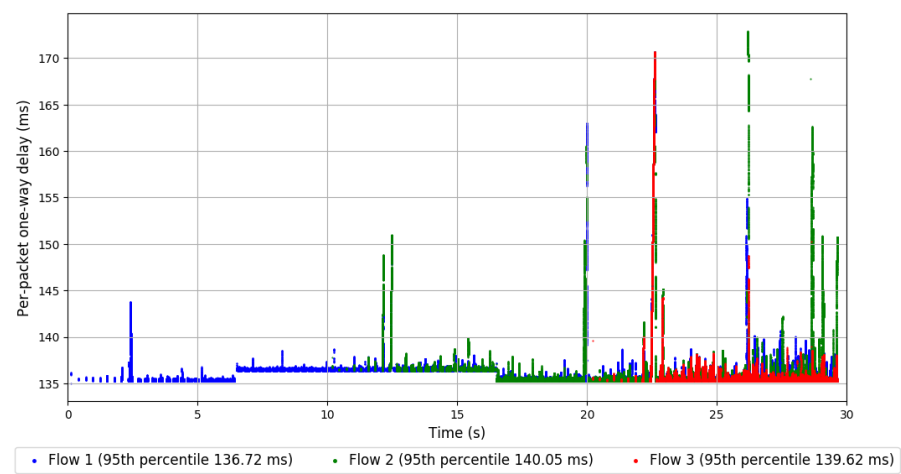
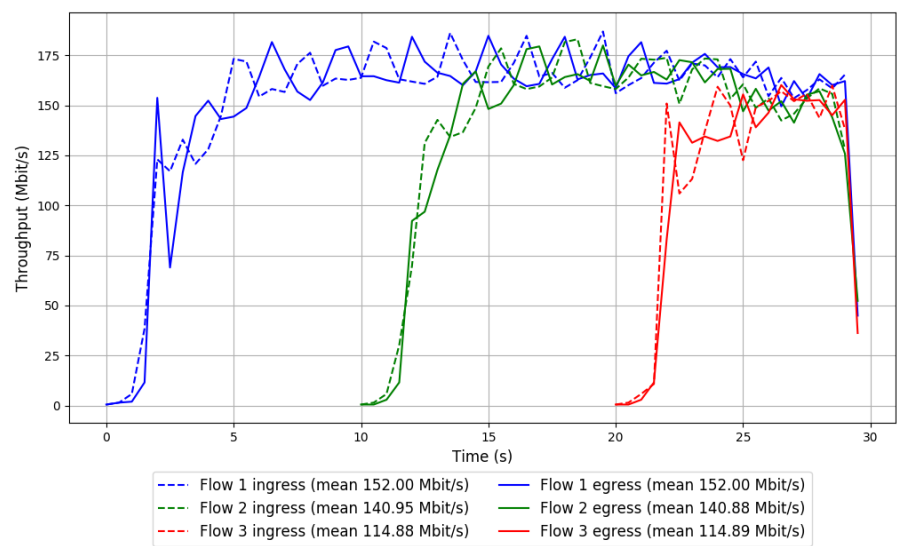
-- Flow 3:

Average throughput: 114.89 Mbit/s

95th percentile per-packet one-way delay: 139.620 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

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

End at: 2017-12-06 13:44:09

Below is generated by plot.py at 2017-12-06 16:05:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 274.78 Mbit/s

95th percentile per-packet one-way delay: 137.562 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 147.68 Mbit/s

95th percentile per-packet one-way delay: 137.122 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 139.28 Mbit/s

95th percentile per-packet one-way delay: 138.374 ms

Loss rate: 0.00%

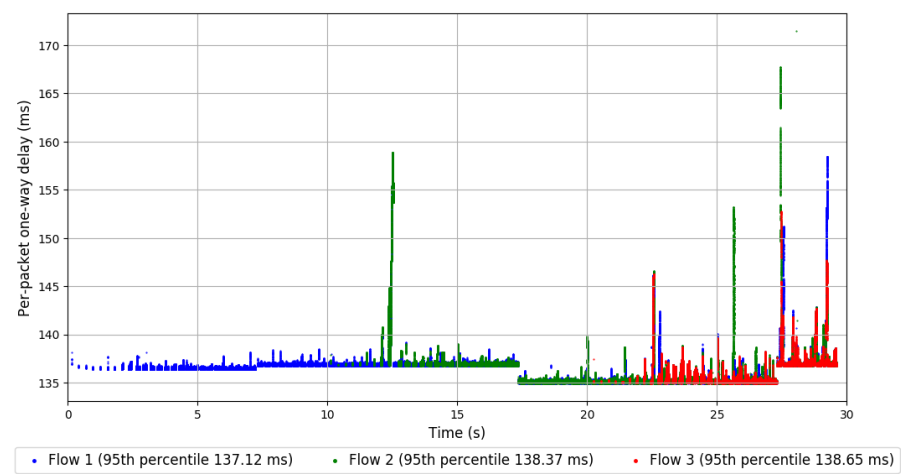
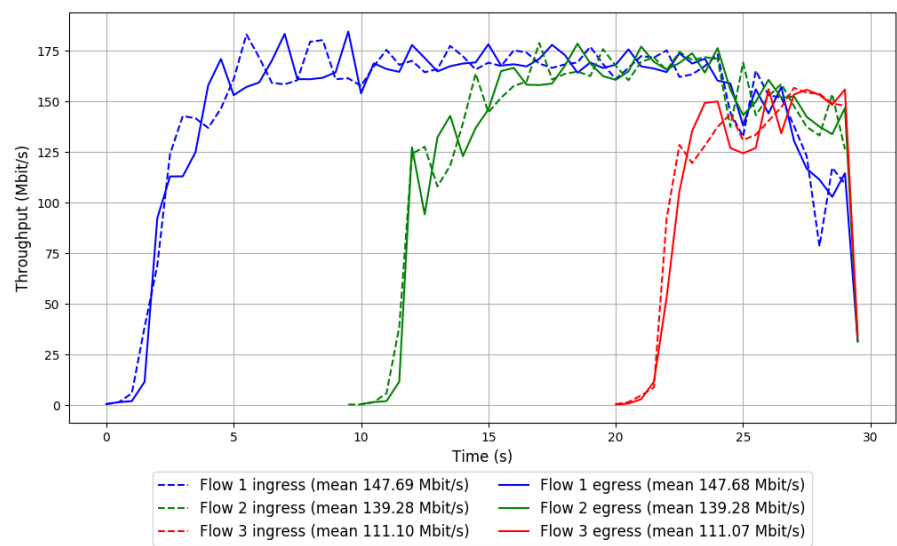
-- Flow 3:

Average throughput: 111.07 Mbit/s

95th percentile per-packet one-way delay: 138.645 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-12-06 13:57:19

End at: 2017-12-06 13:57:49

Below is generated by plot.py at 2017-12-06 16:06:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 273.56 Mbit/s

95th percentile per-packet one-way delay: 140.258 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 144.70 Mbit/s

95th percentile per-packet one-way delay: 139.010 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 140.43 Mbit/s

95th percentile per-packet one-way delay: 140.497 ms

Loss rate: 0.00%

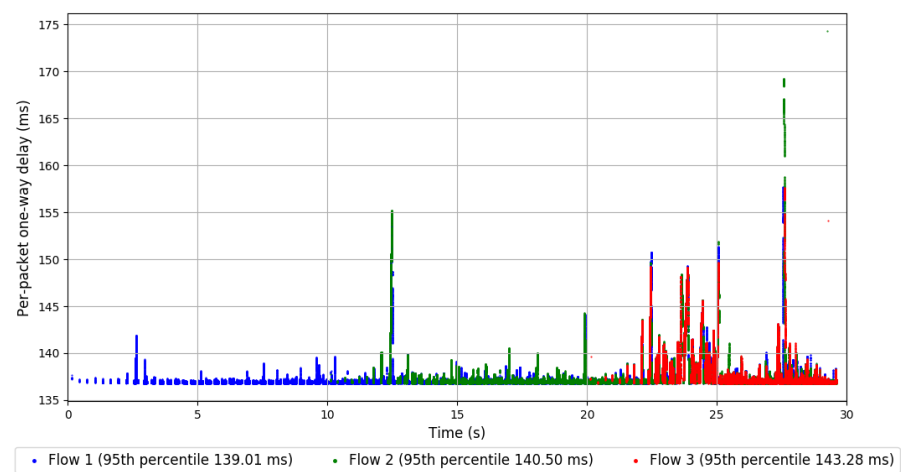
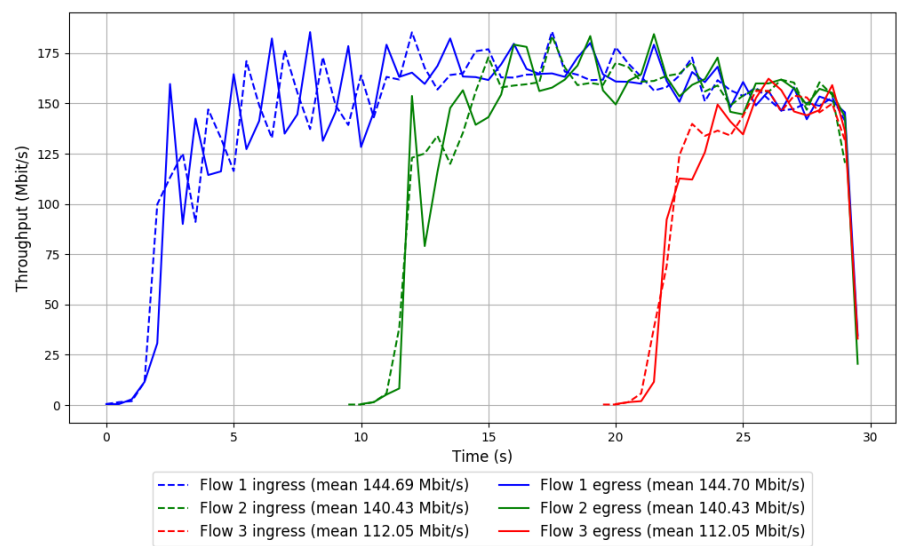
-- Flow 3:

Average throughput: 112.05 Mbit/s

95th percentile per-packet one-way delay: 143.282 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-12-06 14:11:13

End at: 2017-12-06 14:11:43

Below is generated by plot.py at 2017-12-06 16:07:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 274.37 Mbit/s

95th percentile per-packet one-way delay: 137.751 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 151.19 Mbit/s

95th percentile per-packet one-way delay: 136.969 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 131.79 Mbit/s

95th percentile per-packet one-way delay: 140.087 ms

Loss rate: 0.00%

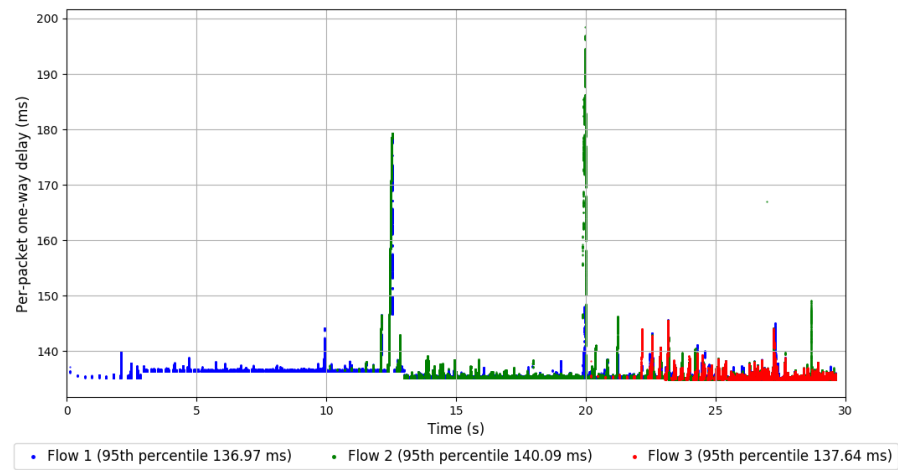
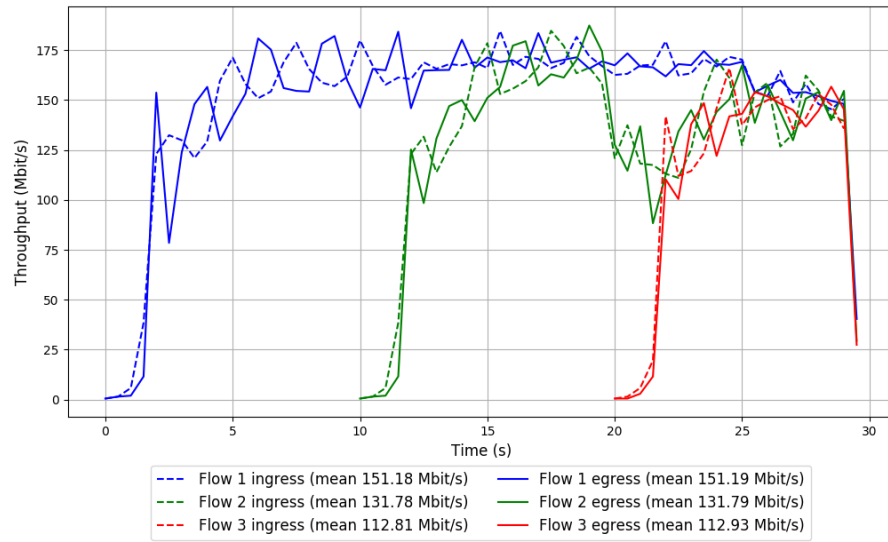
-- Flow 3:

Average throughput: 112.93 Mbit/s

95th percentile per-packet one-way delay: 137.639 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-12-06 14:25:03

End at: 2017-12-06 14:25:33

Below is generated by plot.py at 2017-12-06 16:07:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 281.45 Mbit/s

95th percentile per-packet one-way delay: 136.303 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 150.04 Mbit/s

95th percentile per-packet one-way delay: 135.893 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 142.28 Mbit/s

95th percentile per-packet one-way delay: 136.518 ms

Loss rate: 0.01%

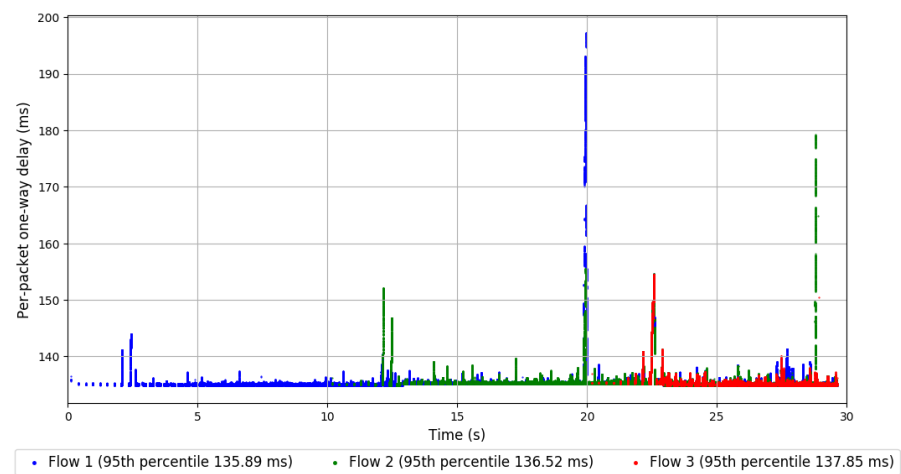
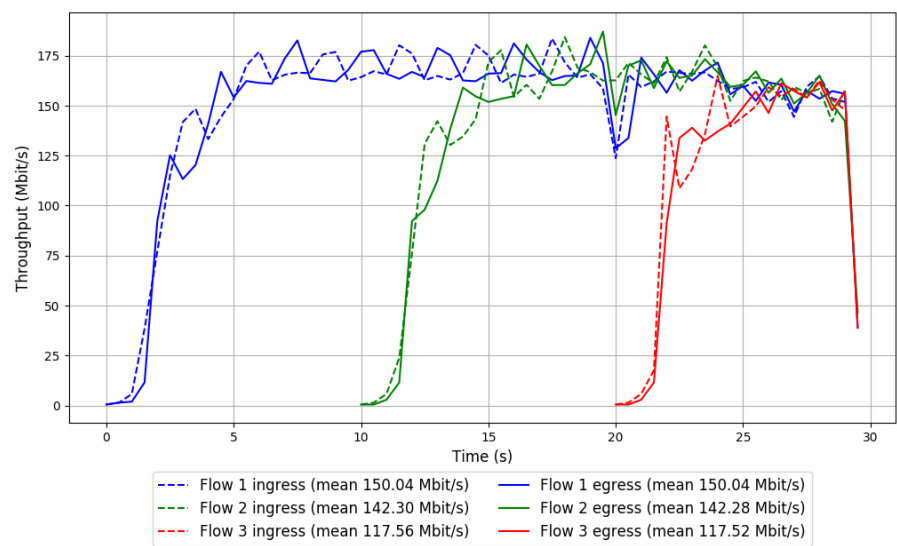
-- Flow 3:

Average throughput: 117.52 Mbit/s

95th percentile per-packet one-way delay: 137.853 ms

Loss rate: 0.02%

Run 10: Report of Indigo — Data Link

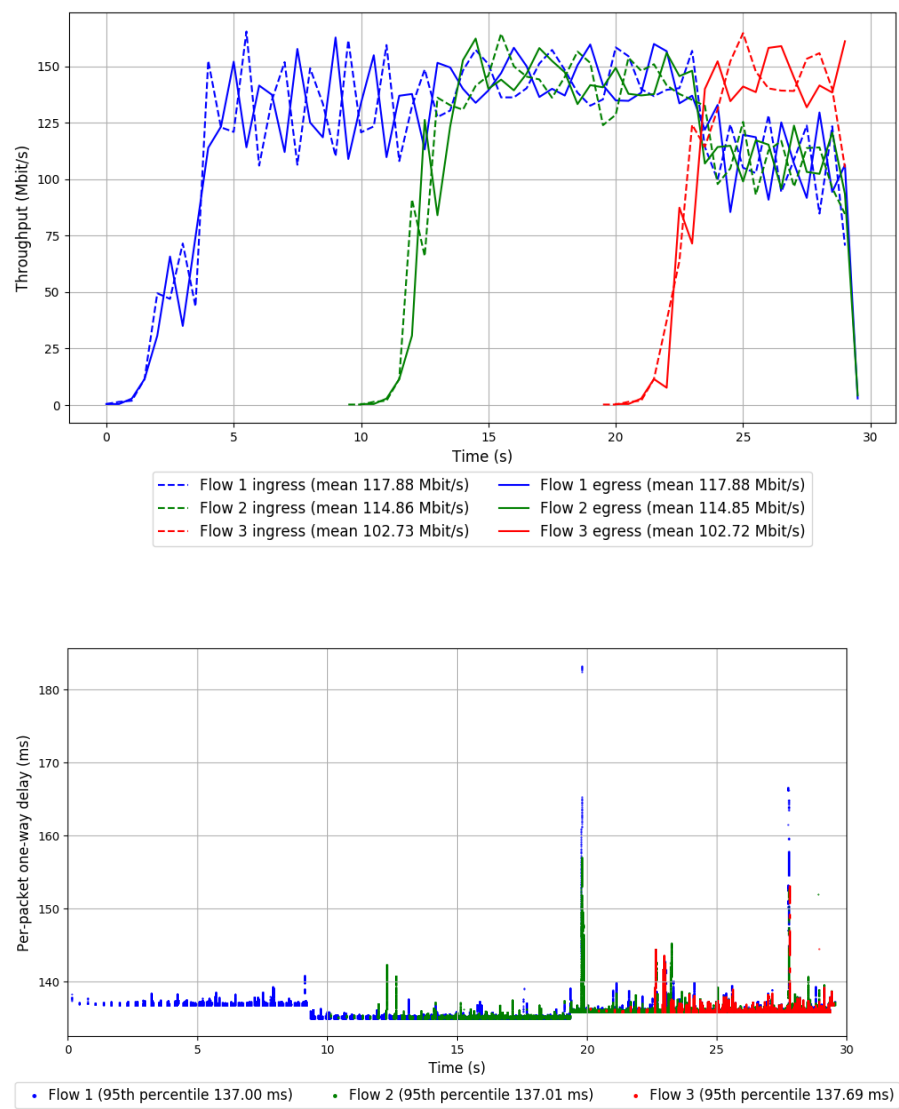


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-06 12:20:07
End at: 2017-12-06 12:20:37

# Below is generated by plot.py at 2017-12-06 16:07:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 226.46 Mbit/s
95th percentile per-packet one-way delay: 137.052 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 117.88 Mbit/s
95th percentile per-packet one-way delay: 137.004 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 114.85 Mbit/s
95th percentile per-packet one-way delay: 137.010 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 102.72 Mbit/s
95th percentile per-packet one-way delay: 137.687 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link

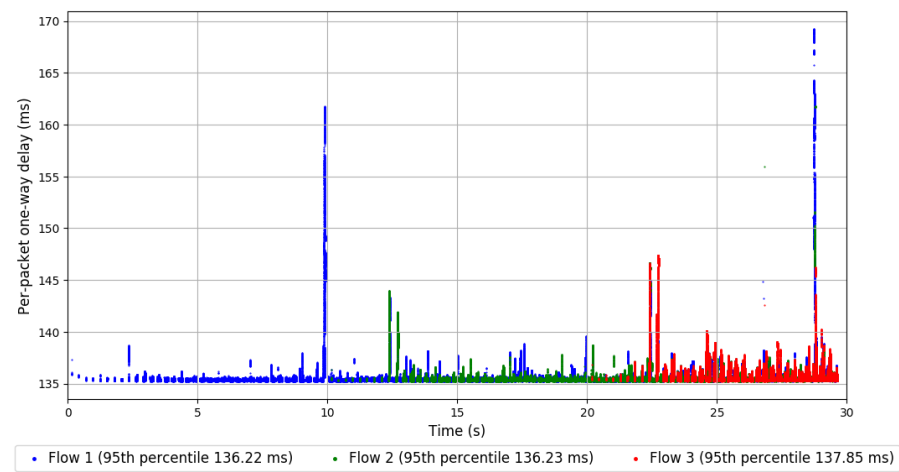
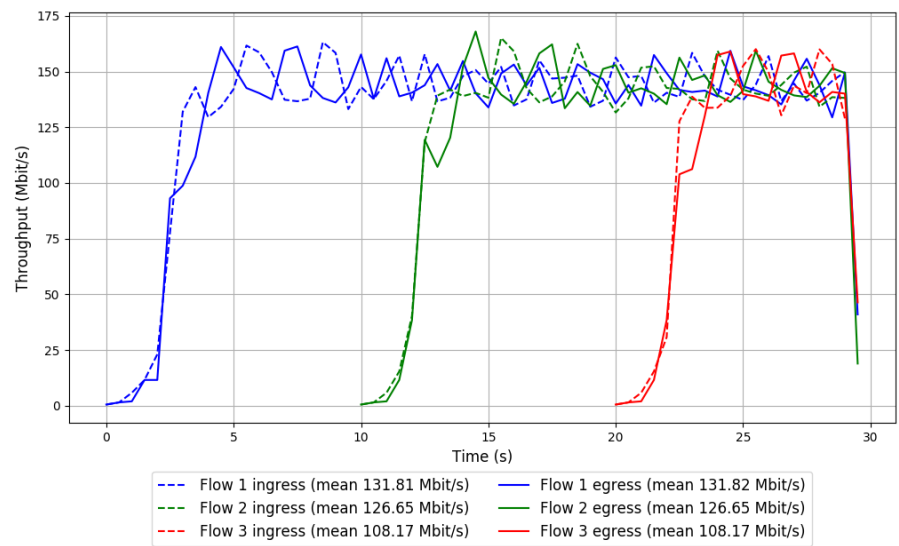


```
Run 2: Statistics of Indigo-calib

Start at: 2017-12-06 12:34:11
End at: 2017-12-06 12:34:41

# Below is generated by plot.py at 2017-12-06 16:07:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 250.21 Mbit/s
95th percentile per-packet one-way delay: 136.528 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 131.82 Mbit/s
95th percentile per-packet one-way delay: 136.223 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 126.65 Mbit/s
95th percentile per-packet one-way delay: 136.232 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 108.17 Mbit/s
95th percentile per-packet one-way delay: 137.850 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-calib — Data Link

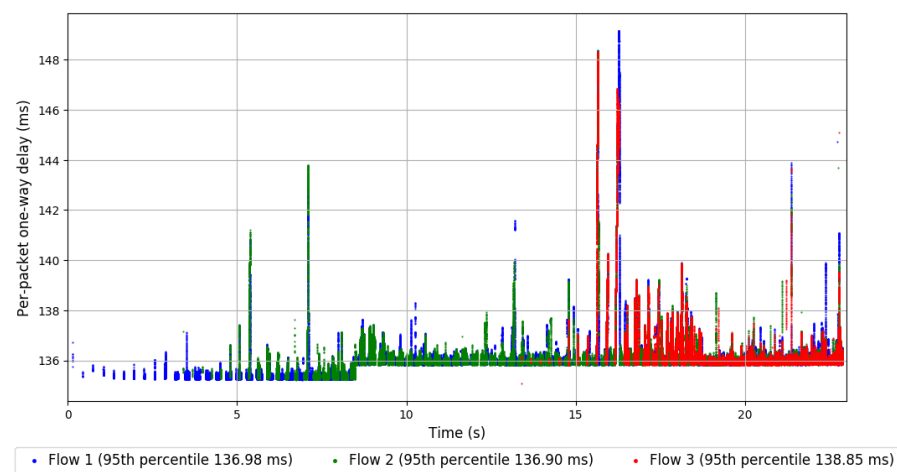
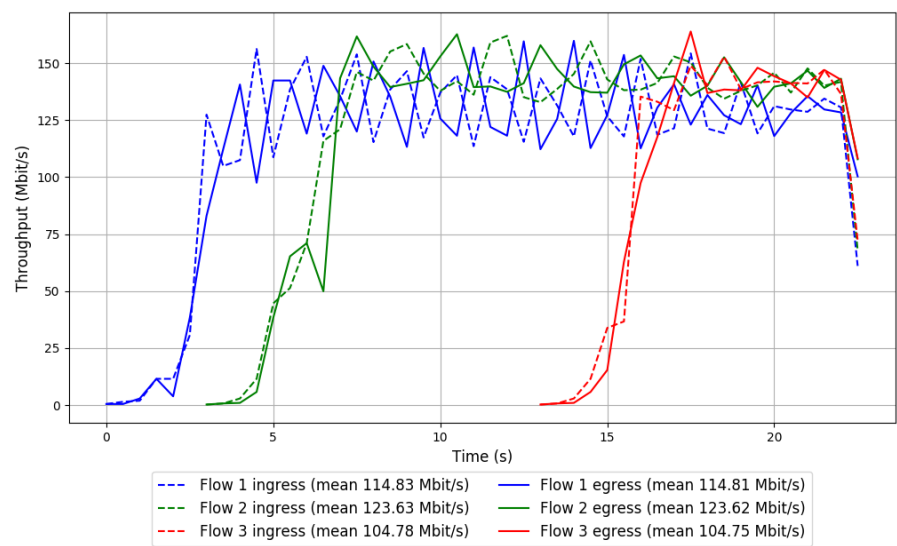


Run 3: Statistics of Indigo-calib

Start at: 2017-12-06 12:48:21

End at: 2017-12-06 12:48:51

Run 3: Report of Indigo-calib — Data Link

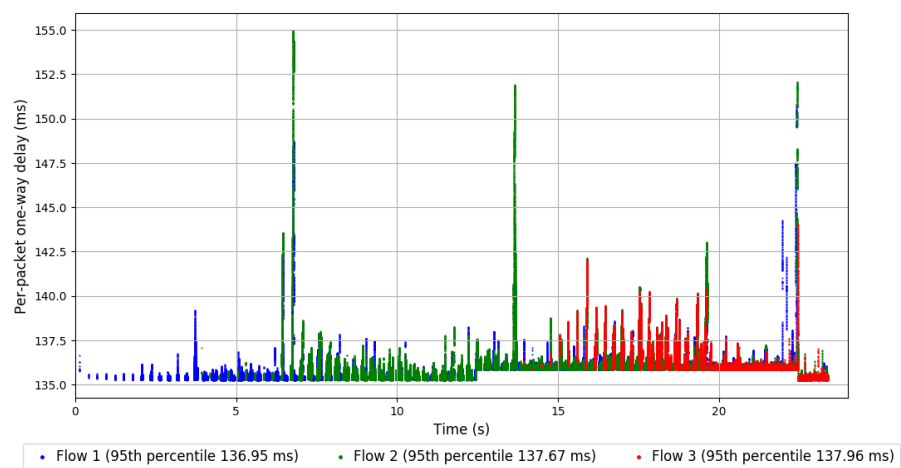
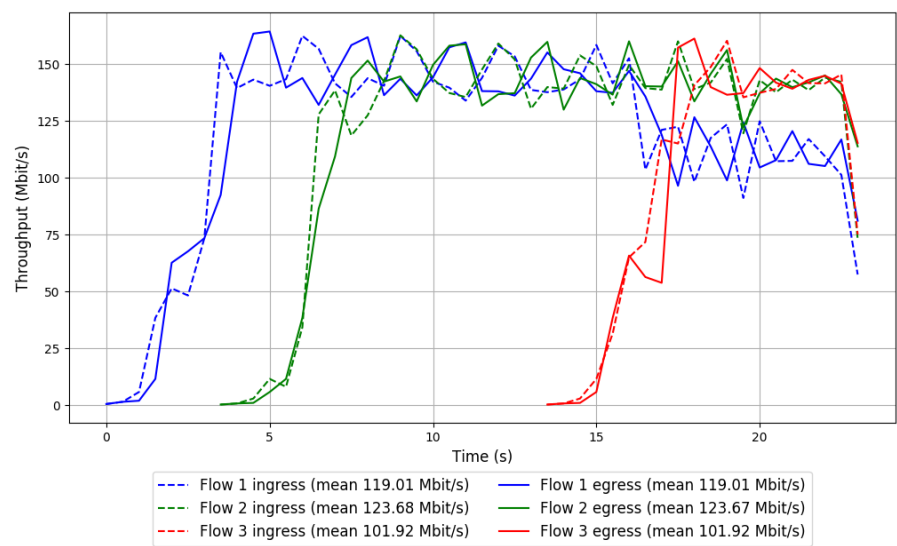


Run 4: Statistics of Indigo-calib

Start at: 2017-12-06 13:02:28

End at: 2017-12-06 13:02:58

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-12-06 13:16:46

End at: 2017-12-06 13:17:16

Below is generated by plot.py at 2017-12-06 16:09:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 241.27 Mbit/s

95th percentile per-packet one-way delay: 136.714 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 130.43 Mbit/s

95th percentile per-packet one-way delay: 136.355 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 117.22 Mbit/s

95th percentile per-packet one-way delay: 136.743 ms

Loss rate: 0.00%

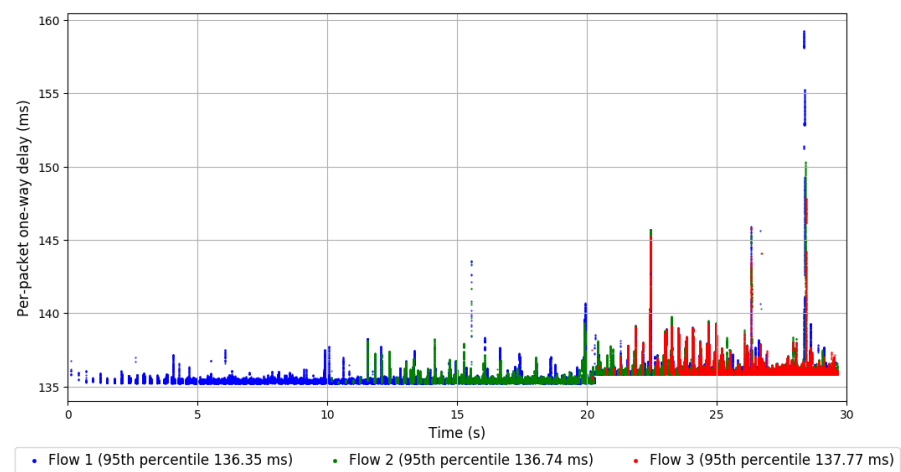
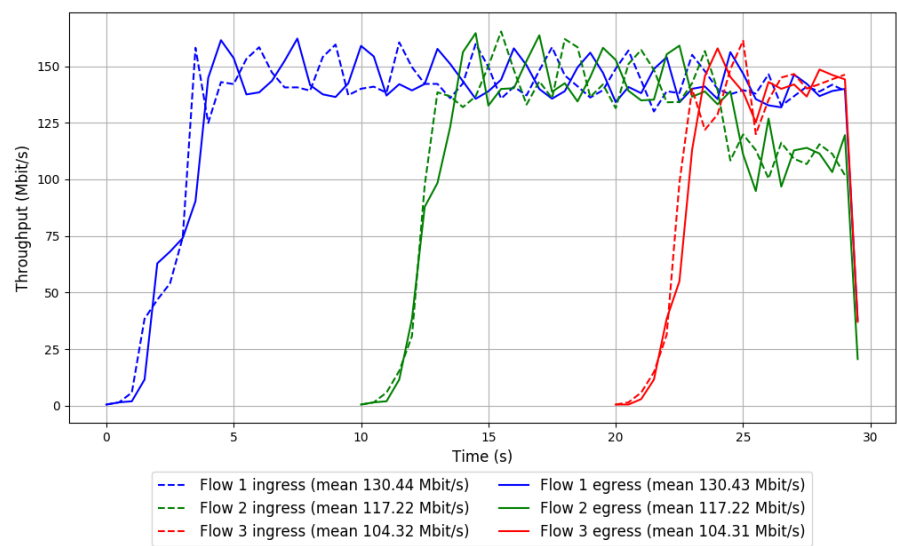
-- Flow 3:

Average throughput: 104.31 Mbit/s

95th percentile per-packet one-way delay: 137.772 ms

Loss rate: 0.00%

Run 5: Report of Indigo-calib — Data Link

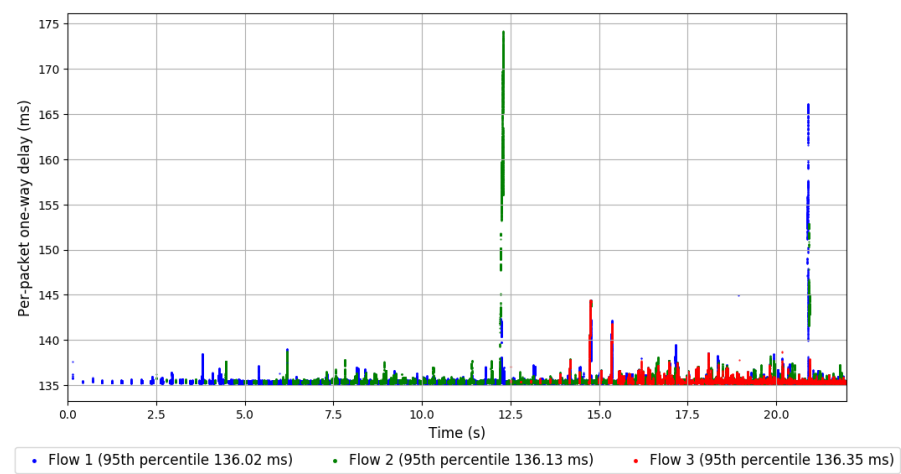
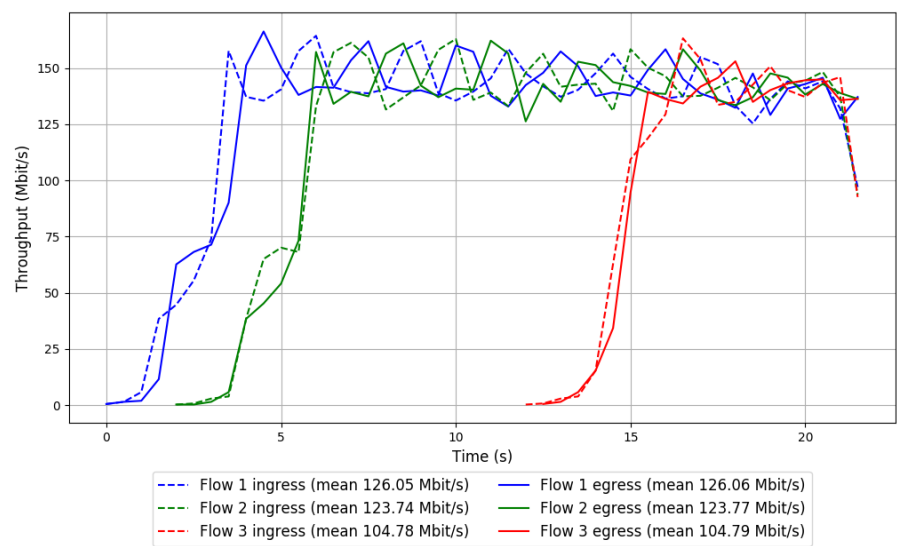


Run 6: Statistics of Indigo-calib

Start at: 2017-12-06 13:30:54

End at: 2017-12-06 13:31:24

Run 6: Report of Indigo-calib — Data Link

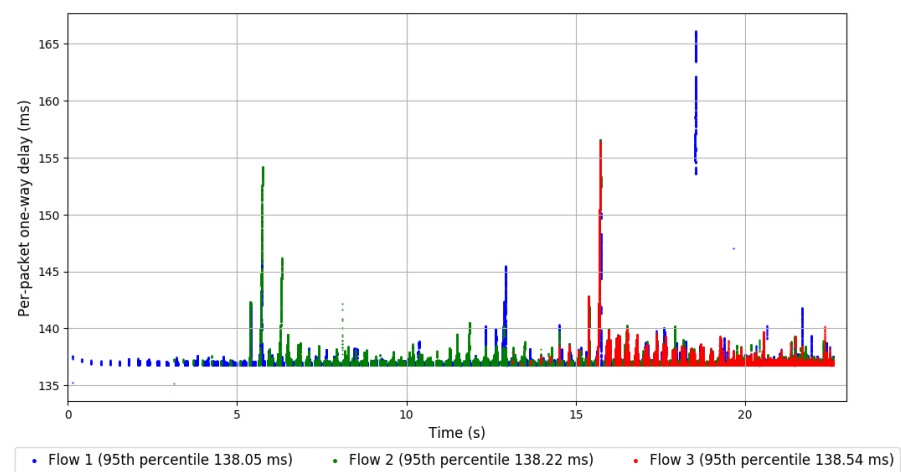
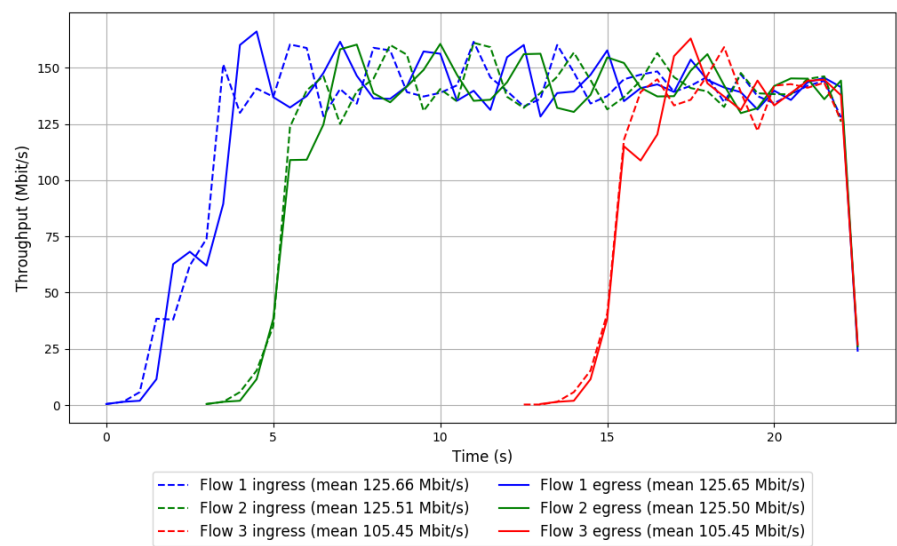


Run 7: Statistics of Indigo-calib

Start at: 2017-12-06 13:44:52

End at: 2017-12-06 13:45:22

Run 7: Report of Indigo-calib — Data Link

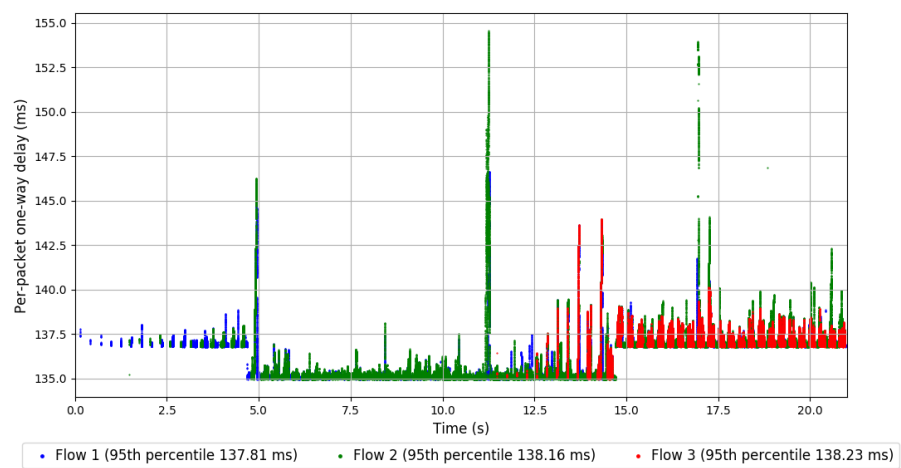
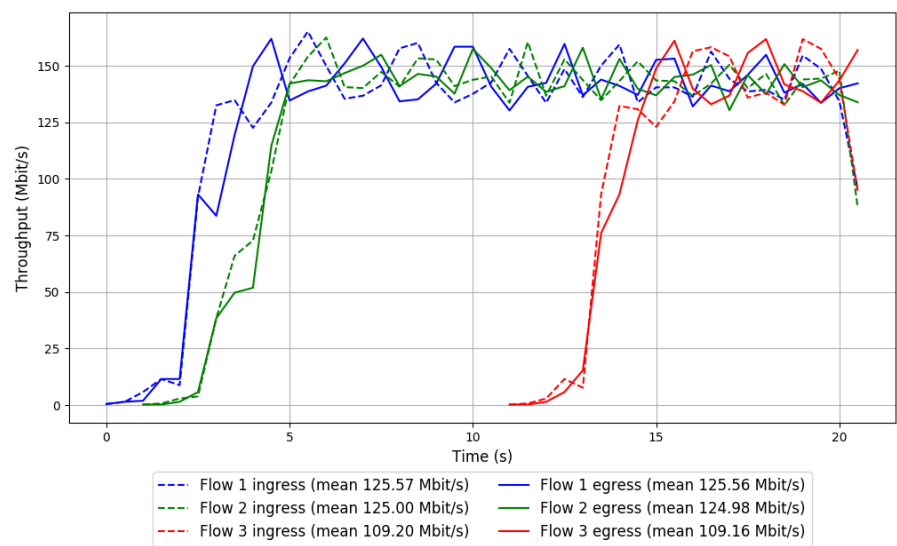


Run 8: Statistics of Indigo-calib

Start at: 2017-12-06 13:58:33

End at: 2017-12-06 13:59:03

Run 8: Report of Indigo-calib — Data Link

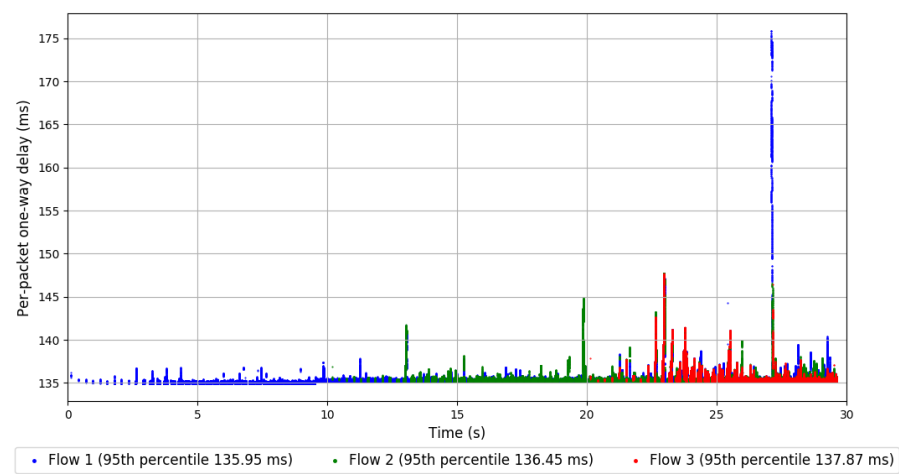
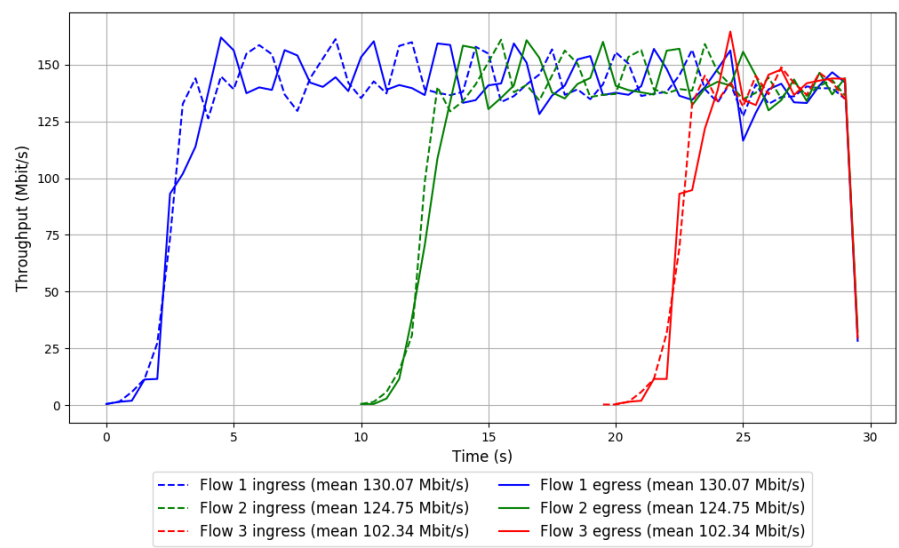


```
Run 9: Statistics of Indigo-calib

Start at: 2017-12-06 14:12:27
End at: 2017-12-06 14:12:57

# Below is generated by plot.py at 2017-12-06 16:10:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 245.18 Mbit/s
95th percentile per-packet one-way delay: 136.389 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 130.07 Mbit/s
95th percentile per-packet one-way delay: 135.949 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 124.75 Mbit/s
95th percentile per-packet one-way delay: 136.447 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 102.34 Mbit/s
95th percentile per-packet one-way delay: 137.865 ms
Loss rate: 0.00%
```

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-06 14:26:17

End at: 2017-12-06 14:26:47

Below is generated by plot.py at 2017-12-06 16:10:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 245.77 Mbit/s

95th percentile per-packet one-way delay: 135.806 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 130.78 Mbit/s

95th percentile per-packet one-way delay: 135.711 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 124.62 Mbit/s

95th percentile per-packet one-way delay: 135.808 ms

Loss rate: 0.01%

-- Flow 3:

Average throughput: 101.57 Mbit/s

95th percentile per-packet one-way delay: 136.170 ms

Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

