

Pantheon Report

Generated at 2017-11-17 12:16:40 (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.

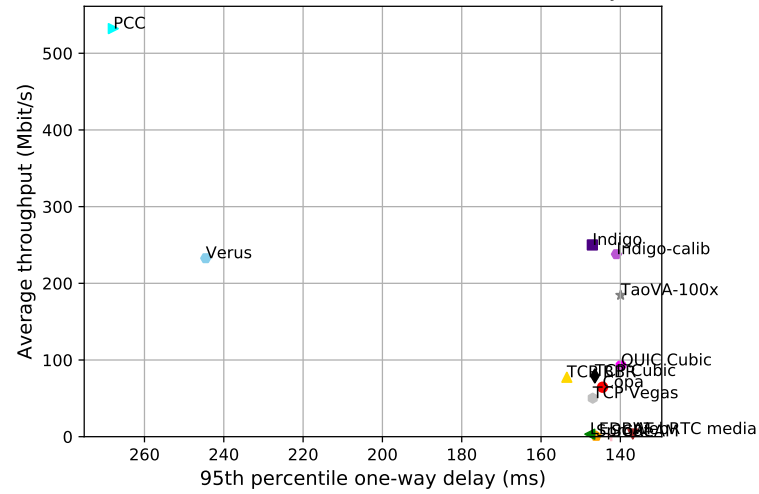
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

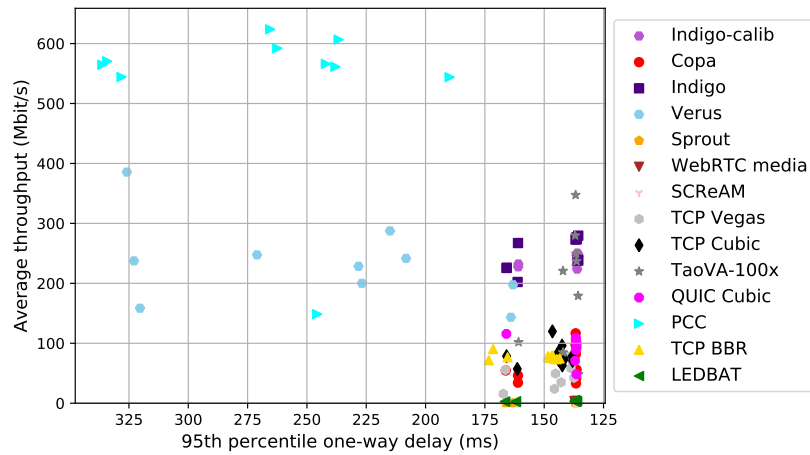
Git summary:

```
branch: indigos @ f54f2953f2a9765c9ffa988d13de5a9471790eb0
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fabb936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
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	39.74	37.76	39.08	152.81	152.90	153.46	0.06	0.02	0.12
TCP Cubic	10	42.09	37.77	36.40	144.15	142.62	145.28	0.02	0.02	0.01
LEDBAT	10	1.94	1.58	0.92	147.73	147.54	147.36	0.19	0.17	0.00
PCC	10	420.24	118.94	100.23	262.59	222.02	232.92	3.38	1.45	2.01
QUIC Cubic	9	51.15	48.54	30.31	139.32	139.47	136.10	0.00	0.02	0.00
SCReAM	9	0.30	0.22	0.22	670.80	139.33	139.10	0.01	0.00	0.04
WebRTC media	10	1.99	1.13	0.37	136.44	139.54	144.51	0.00	0.00	0.01
Sprout	9	0.35	0.41	0.43	145.96	145.73	145.74	0.12	0.00	0.00
TaoVA-100x	10	128.95	52.34	80.27	142.49	141.68	138.77	0.00	0.01	0.07
TCP Vegas	10	24.48	25.02	27.67	144.31	146.59	148.09	0.09	0.06	0.03
Verus	10	141.63	111.30	57.14	218.19	210.01	227.00	1.13	1.42	5.27
Copa	10	40.95	31.13	22.46	141.80	141.45	144.15	0.01	0.02	0.17
Indigo	10	122.66	138.10	113.17	146.99	144.61	139.30	0.00	0.01	0.00
Indigo-calib	10	124.87	121.44	102.66	140.85	141.10	138.75	0.01	0.01	0.02

Run 1: Statistics of TCP BBR

Start at: 2017-11-17 08:25:08

End at: 2017-11-17 08:25:38

Below is generated by plot.py at 2017-11-17 11:33:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.93 Mbit/s

95th percentile per-packet one-way delay: 146.439 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 40.69 Mbit/s

95th percentile per-packet one-way delay: 145.387 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.21 Mbit/s

95th percentile per-packet one-way delay: 145.694 ms

Loss rate: 0.00%

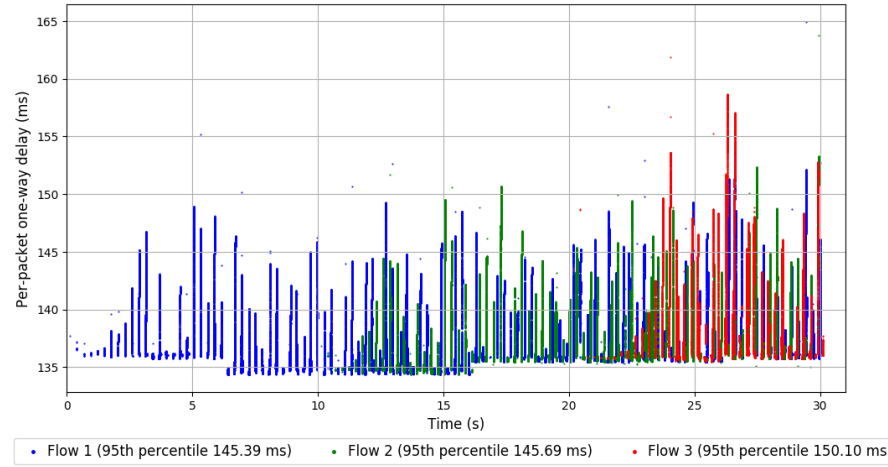
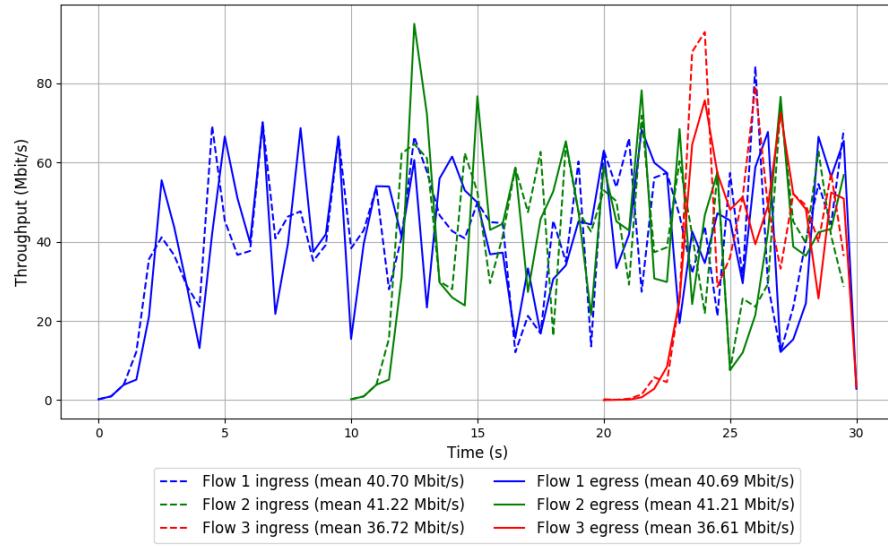
-- Flow 3:

Average throughput: 36.61 Mbit/s

95th percentile per-packet one-way delay: 150.101 ms

Loss rate: 0.37%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-17 08:39:17

End at: 2017-11-17 08:39:47

Below is generated by plot.py at 2017-11-17 11:33:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.75 Mbit/s

95th percentile per-packet one-way delay: 143.521 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 35.64 Mbit/s

95th percentile per-packet one-way delay: 143.410 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 39.84 Mbit/s

95th percentile per-packet one-way delay: 144.511 ms

Loss rate: 0.01%

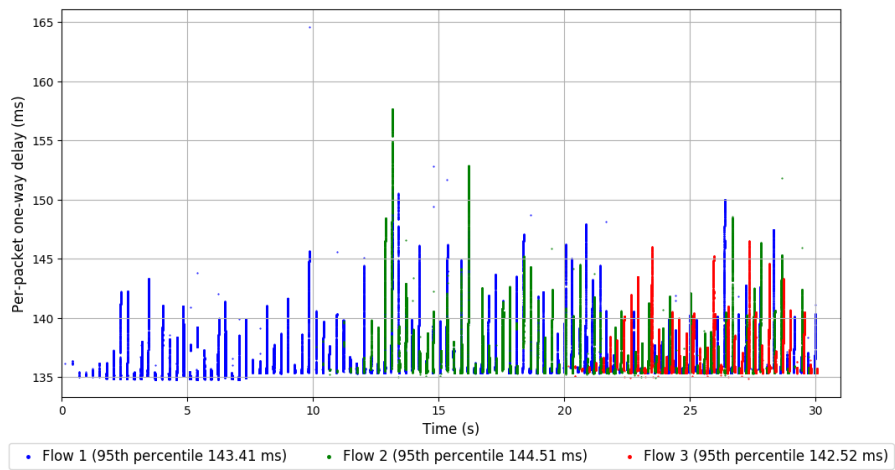
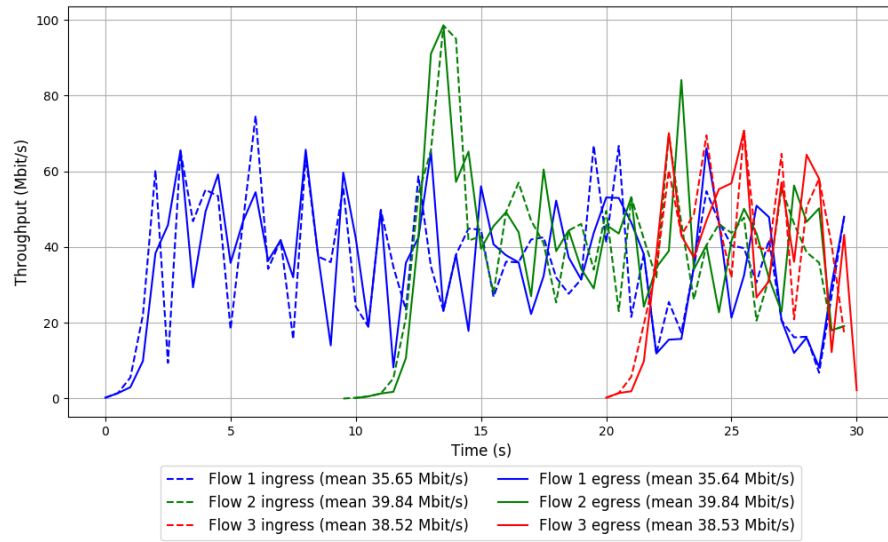
-- Flow 3:

Average throughput: 38.53 Mbit/s

95th percentile per-packet one-way delay: 142.516 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-17 08:53:26

End at: 2017-11-17 08:53:56

Below is generated by plot.py at 2017-11-17 11:33:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.94 Mbit/s

95th percentile per-packet one-way delay: 146.583 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 41.73 Mbit/s

95th percentile per-packet one-way delay: 146.647 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 34.40 Mbit/s

95th percentile per-packet one-way delay: 146.933 ms

Loss rate: 0.04%

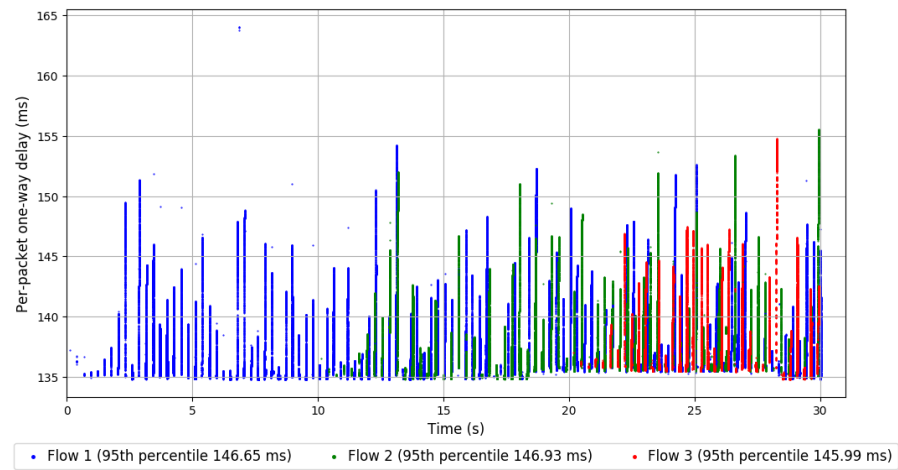
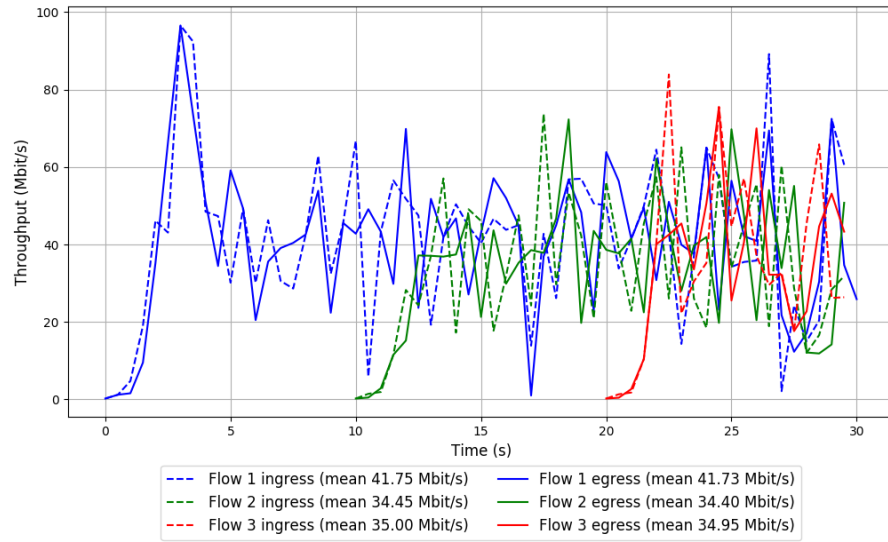
-- Flow 3:

Average throughput: 34.95 Mbit/s

95th percentile per-packet one-way delay: 145.994 ms

Loss rate: 0.09%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-17 09:07:30

End at: 2017-11-17 09:08:00

Below is generated by plot.py at 2017-11-17 11:33:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.75 Mbit/s

95th percentile per-packet one-way delay: 165.441 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 39.43 Mbit/s

95th percentile per-packet one-way delay: 167.242 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 39.48 Mbit/s

95th percentile per-packet one-way delay: 163.380 ms

Loss rate: 0.02%

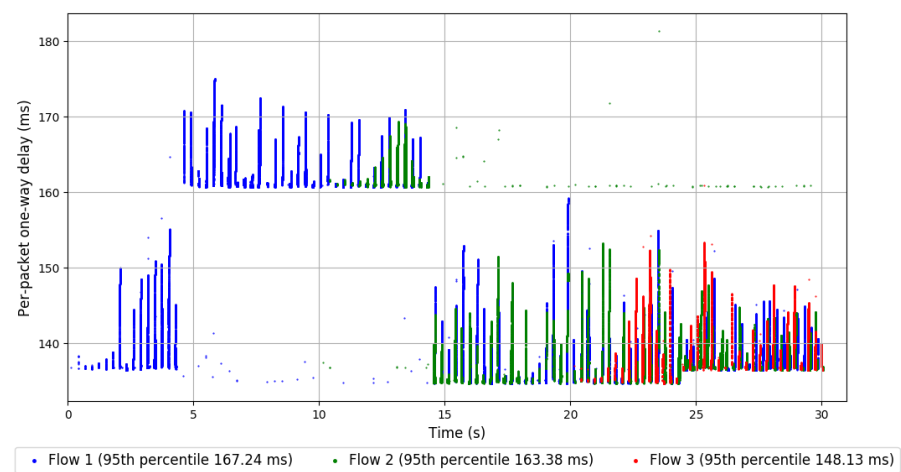
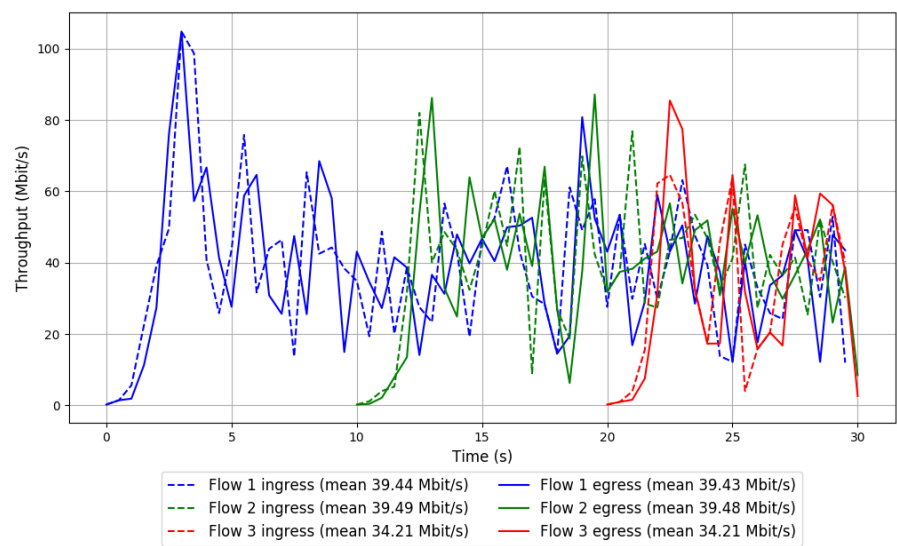
-- Flow 3:

Average throughput: 34.21 Mbit/s

95th percentile per-packet one-way delay: 148.135 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-17 09:21:13

End at: 2017-11-17 09:21:43

Below is generated by plot.py at 2017-11-17 11:33:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.34 Mbit/s

95th percentile per-packet one-way delay: 148.430 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 40.64 Mbit/s

95th percentile per-packet one-way delay: 144.047 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.07 Mbit/s

95th percentile per-packet one-way delay: 148.447 ms

Loss rate: 0.01%

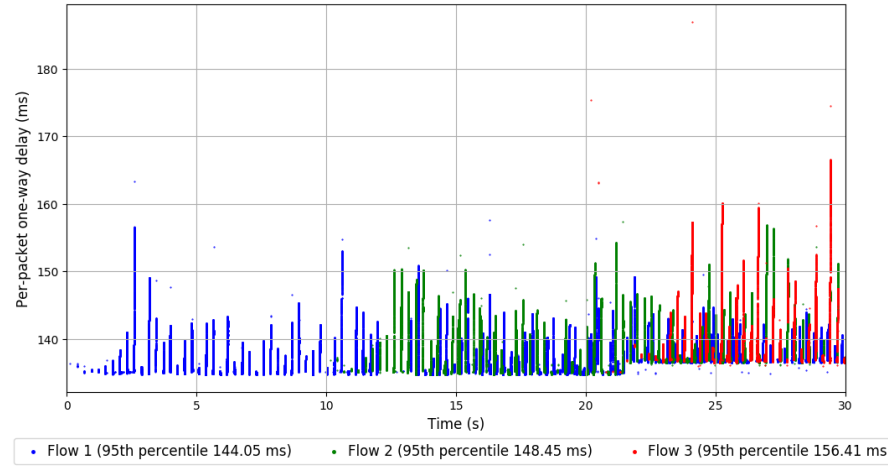
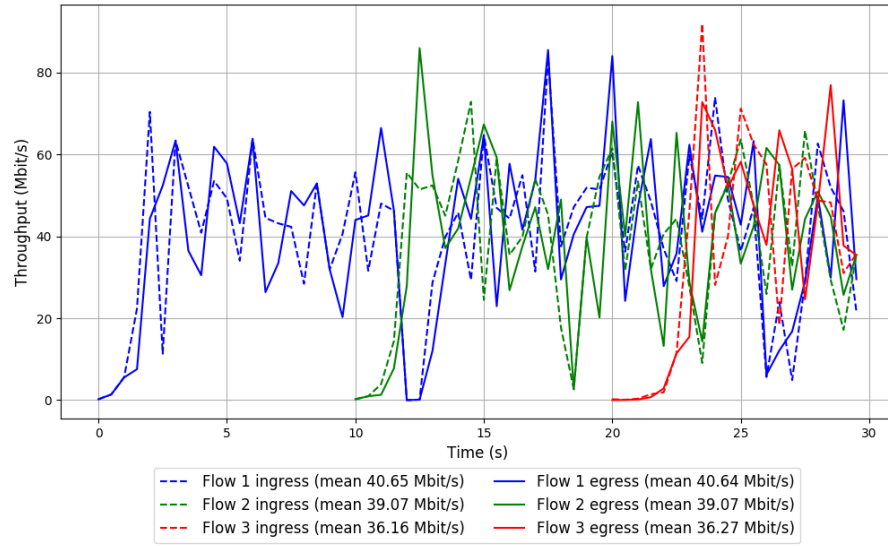
-- Flow 3:

Average throughput: 36.27 Mbit/s

95th percentile per-packet one-way delay: 156.413 ms

Loss rate: 0.07%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

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

End at: 2017-11-17 09:35:04

Below is generated by plot.py at 2017-11-17 11:33:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.42 Mbit/s

95th percentile per-packet one-way delay: 171.536 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 45.59 Mbit/s

95th percentile per-packet one-way delay: 169.721 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 36.45 Mbit/s

95th percentile per-packet one-way delay: 167.326 ms

Loss rate: 0.03%

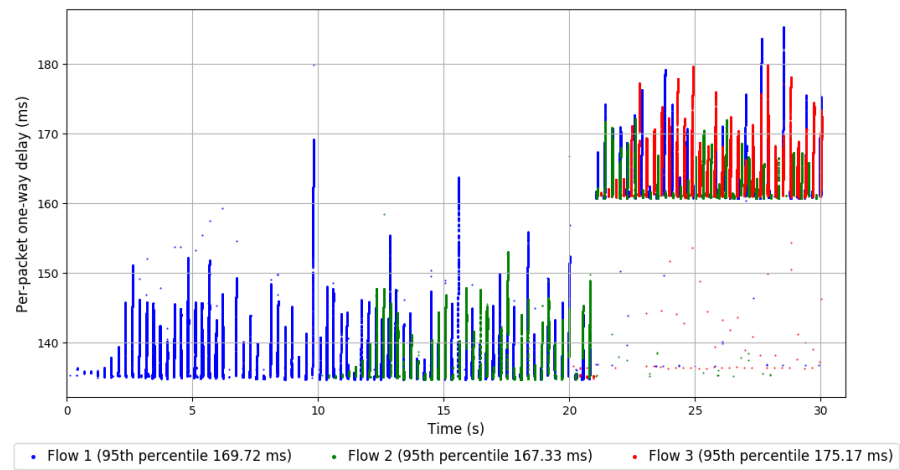
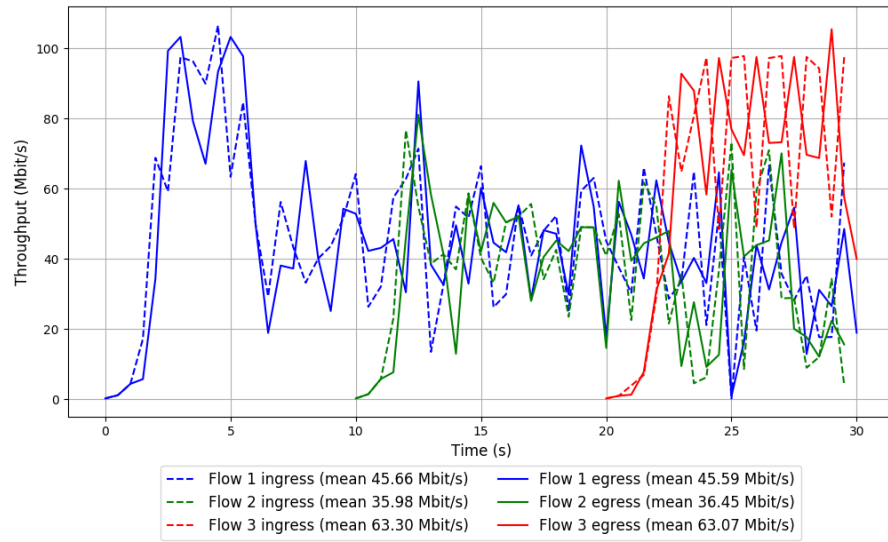
-- Flow 3:

Average throughput: 63.07 Mbit/s

95th percentile per-packet one-way delay: 175.167 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-11-17 09:48:43

End at: 2017-11-17 09:49:13

Below is generated by plot.py at 2017-11-17 11:33:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.63 Mbit/s

95th percentile per-packet one-way delay: 146.907 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 41.67 Mbit/s

95th percentile per-packet one-way delay: 145.868 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 39.22 Mbit/s

95th percentile per-packet one-way delay: 146.276 ms

Loss rate: 0.03%

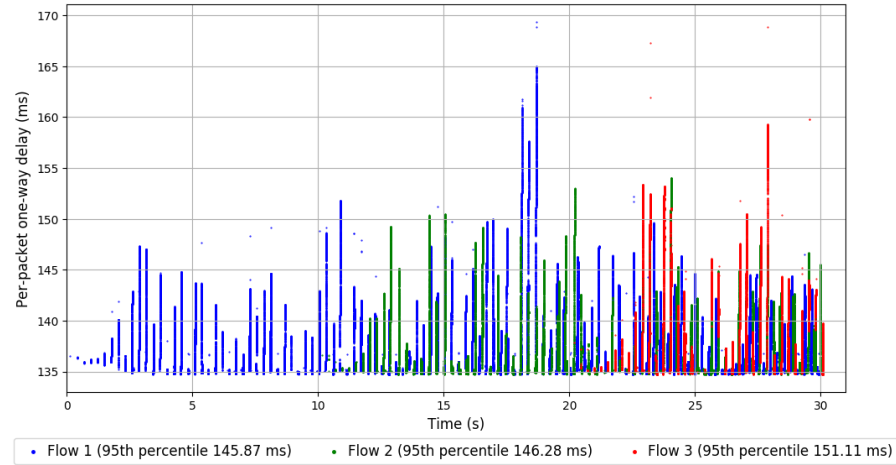
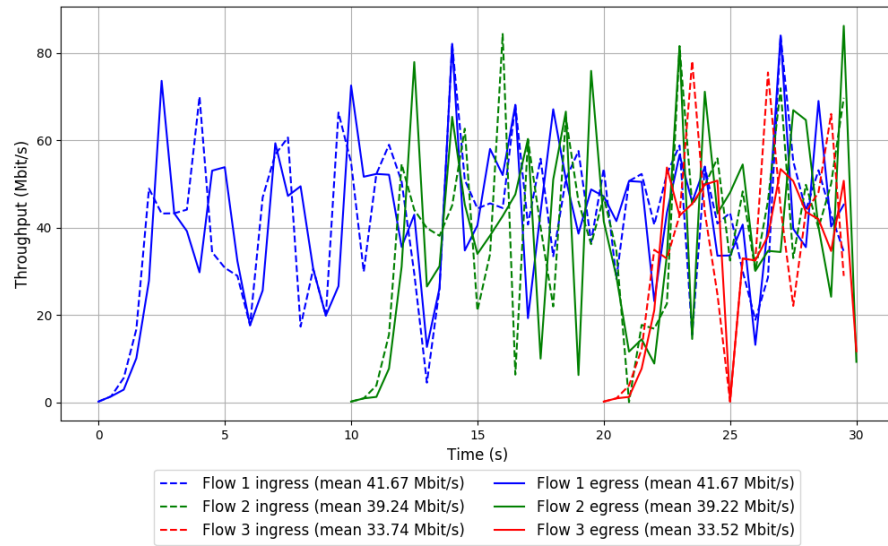
-- Flow 3:

Average throughput: 33.52 Mbit/s

95th percentile per-packet one-way delay: 151.113 ms

Loss rate: 0.63%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-17 10:02:51

End at: 2017-11-17 10:03:21

Below is generated by plot.py at 2017-11-17 11:33:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.48 Mbit/s

95th percentile per-packet one-way delay: 148.073 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 36.82 Mbit/s

95th percentile per-packet one-way delay: 146.483 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 38.49 Mbit/s

95th percentile per-packet one-way delay: 149.579 ms

Loss rate: 0.04%

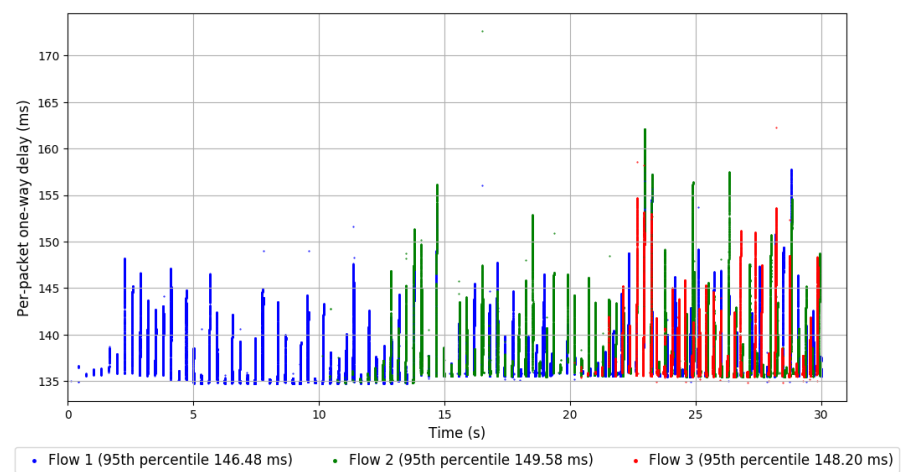
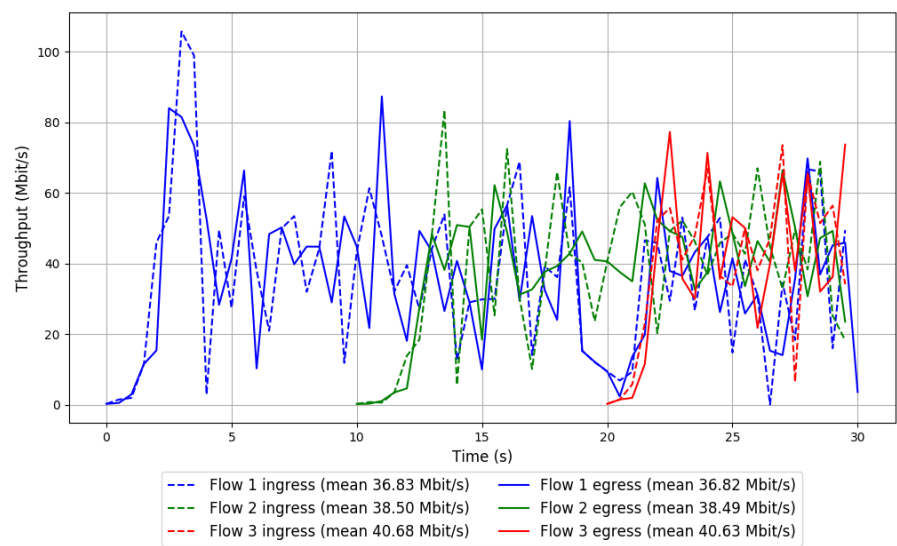
-- Flow 3:

Average throughput: 40.63 Mbit/s

95th percentile per-packet one-way delay: 148.196 ms

Loss rate: 0.03%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-17 10:16:48

End at: 2017-11-17 10:17:18

Below is generated by plot.py at 2017-11-17 11:34:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.42 Mbit/s

95th percentile per-packet one-way delay: 144.684 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 39.88 Mbit/s

95th percentile per-packet one-way delay: 144.888 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 33.15 Mbit/s

95th percentile per-packet one-way delay: 144.721 ms

Loss rate: 0.00%

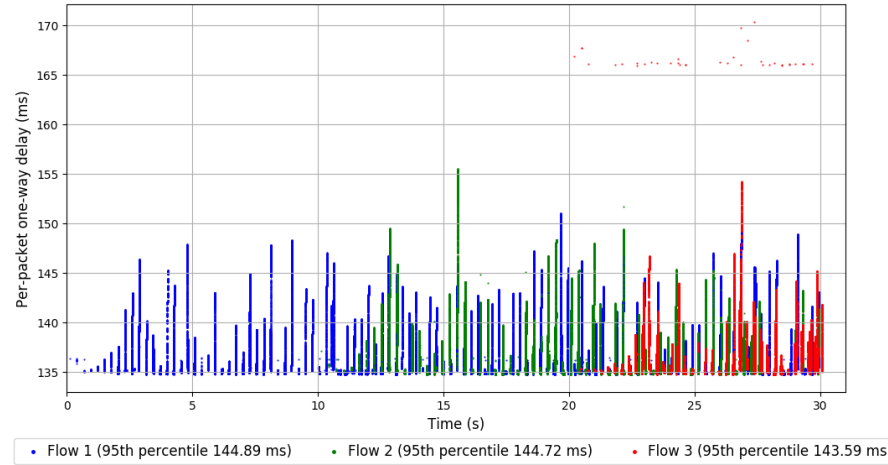
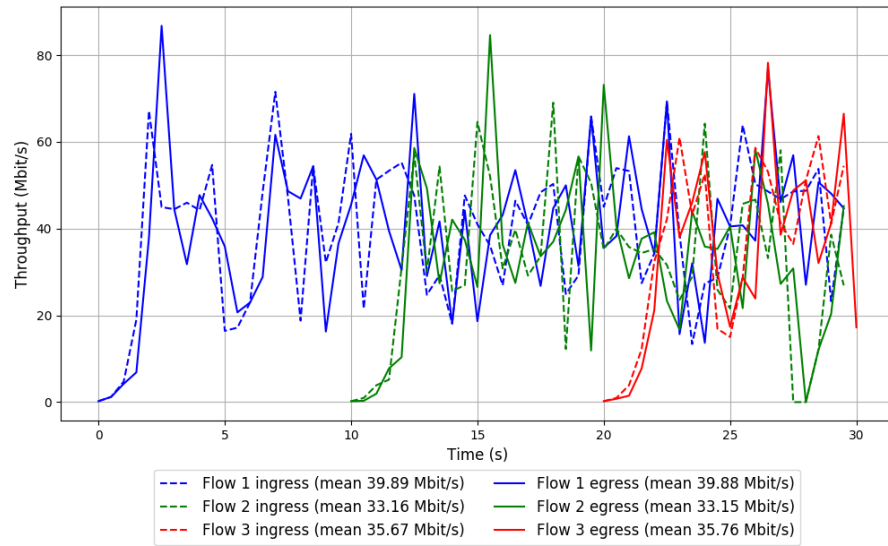
-- Flow 3:

Average throughput: 35.76 Mbit/s

95th percentile per-packet one-way delay: 143.586 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-17 10:30:10

End at: 2017-11-17 10:30:40

Below is generated by plot.py at 2017-11-17 11:34:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.72 Mbit/s

95th percentile per-packet one-way delay: 173.367 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 35.35 Mbit/s

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

Loss rate: 0.52%

-- Flow 2:

Average throughput: 36.26 Mbit/s

95th percentile per-packet one-way delay: 172.155 ms

Loss rate: 0.00%

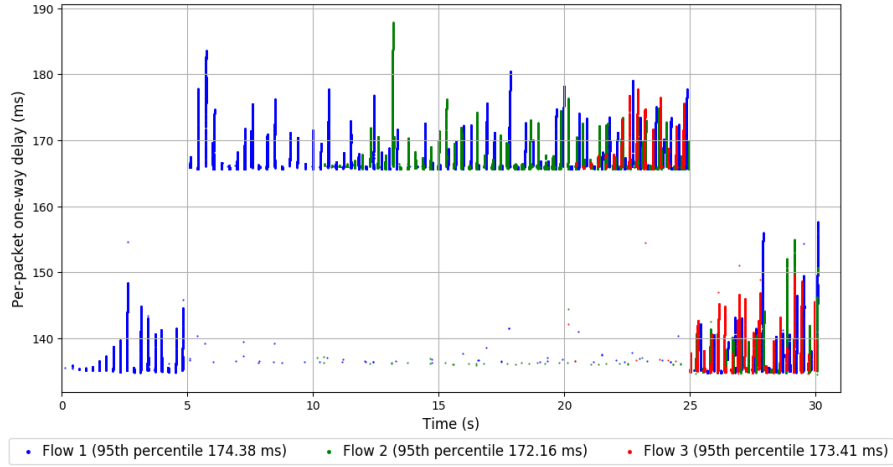
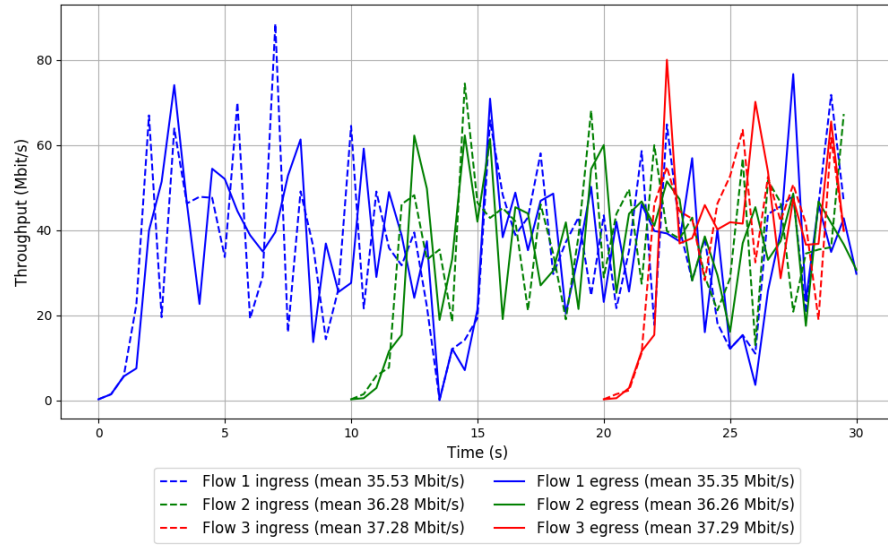
-- Flow 3:

Average throughput: 37.29 Mbit/s

95th percentile per-packet one-way delay: 173.414 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-11-17 08:30:13

End at: 2017-11-17 08:30:43

Below is generated by plot.py at 2017-11-17 11:34:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.63 Mbit/s

95th percentile per-packet one-way delay: 144.221 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 45.80 Mbit/s

95th percentile per-packet one-way delay: 143.320 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 39.58 Mbit/s

95th percentile per-packet one-way delay: 147.980 ms

Loss rate: 0.01%

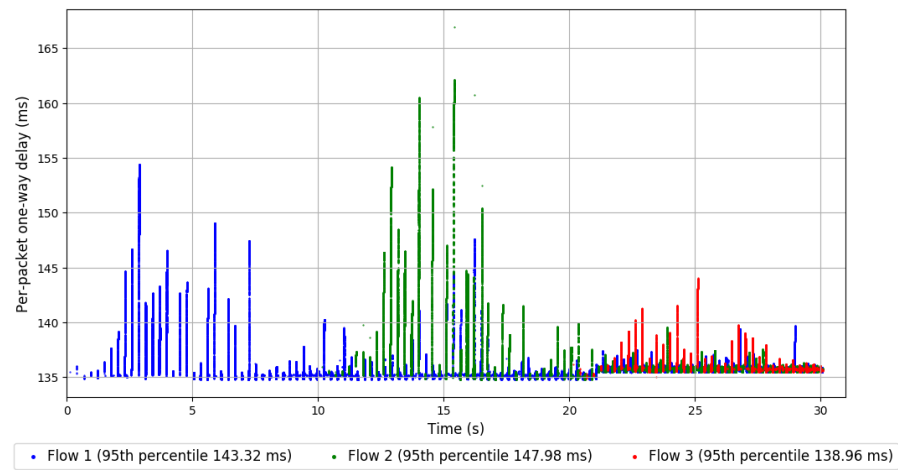
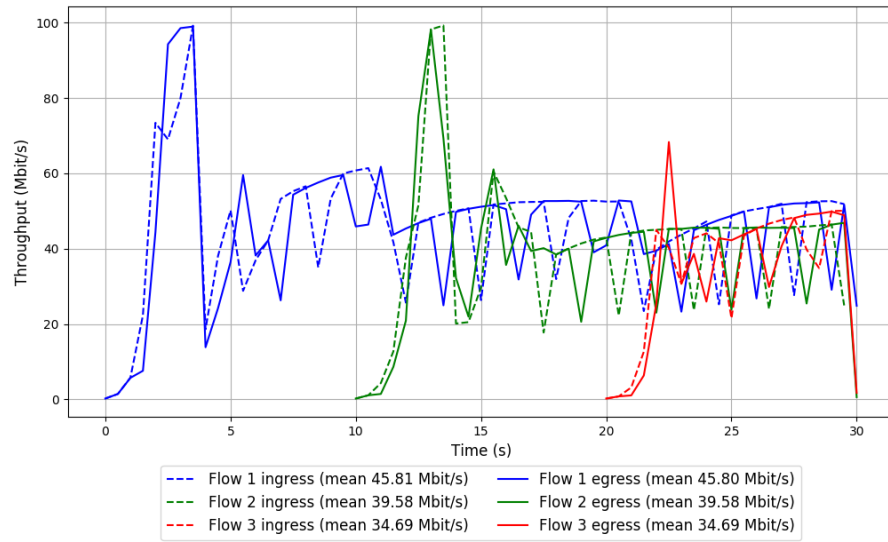
-- Flow 3:

Average throughput: 34.69 Mbit/s

95th percentile per-packet one-way delay: 138.962 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-17 08:44:26

End at: 2017-11-17 08:44:56

Below is generated by plot.py at 2017-11-17 11:34:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.75 Mbit/s

95th percentile per-packet one-way delay: 138.048 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 27.72 Mbit/s

95th percentile per-packet one-way delay: 138.493 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 38.52 Mbit/s

95th percentile per-packet one-way delay: 137.943 ms

Loss rate: 0.01%

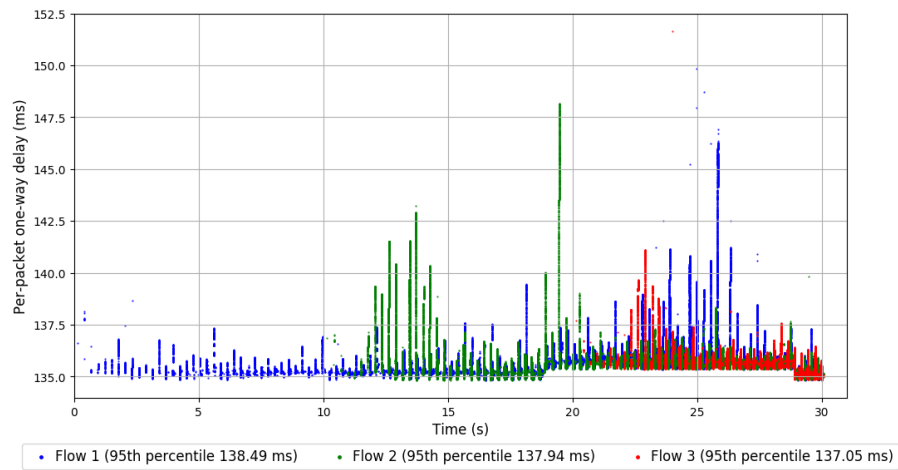
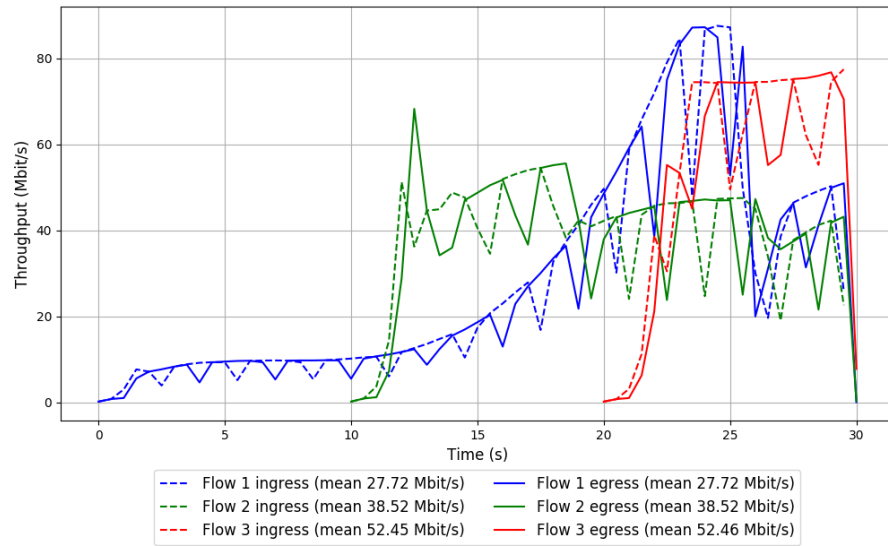
-- Flow 3:

Average throughput: 52.46 Mbit/s

95th percentile per-packet one-way delay: 137.054 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-17 08:58:20

End at: 2017-11-17 08:58:50

Below is generated by plot.py at 2017-11-17 11:35:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 119.80 Mbit/s

95th percentile per-packet one-way delay: 146.538 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 77.19 Mbit/s

95th percentile per-packet one-way delay: 147.538 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.12 Mbit/s

95th percentile per-packet one-way delay: 144.849 ms

Loss rate: 0.02%

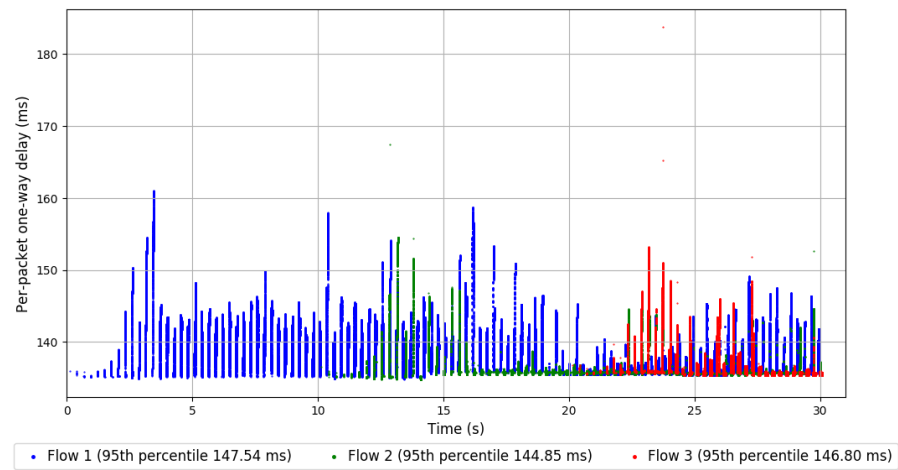
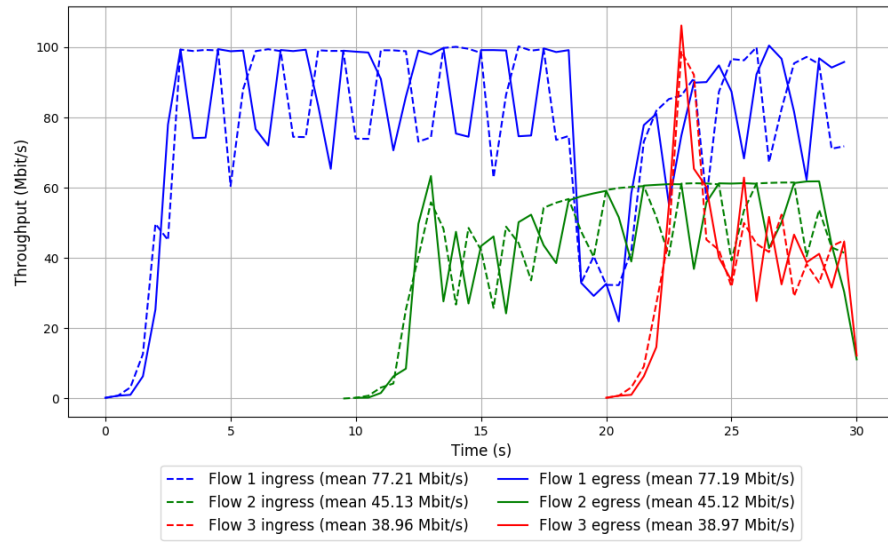
-- Flow 3:

Average throughput: 38.97 Mbit/s

95th percentile per-packet one-way delay: 146.802 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-17 09:12:20

End at: 2017-11-17 09:12:50

Below is generated by plot.py at 2017-11-17 11:35:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.07 Mbit/s

95th percentile per-packet one-way delay: 142.357 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 23.67 Mbit/s

95th percentile per-packet one-way delay: 137.817 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 41.47 Mbit/s

95th percentile per-packet one-way delay: 142.889 ms

Loss rate: 0.00%

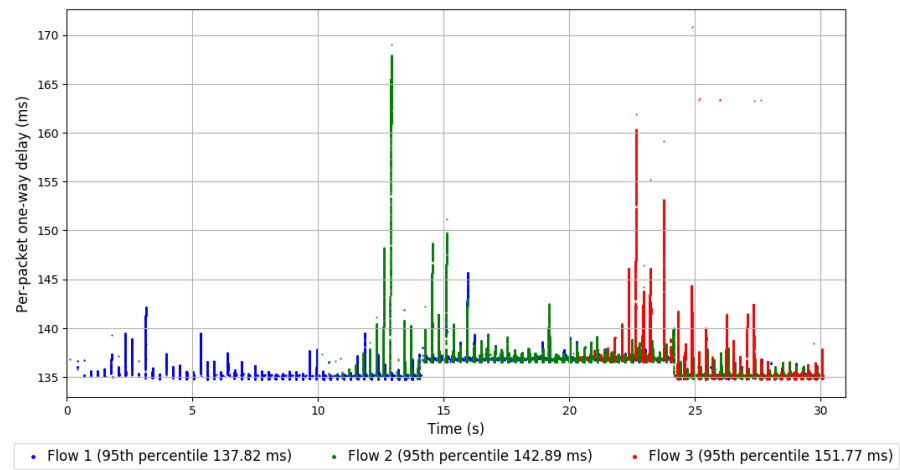
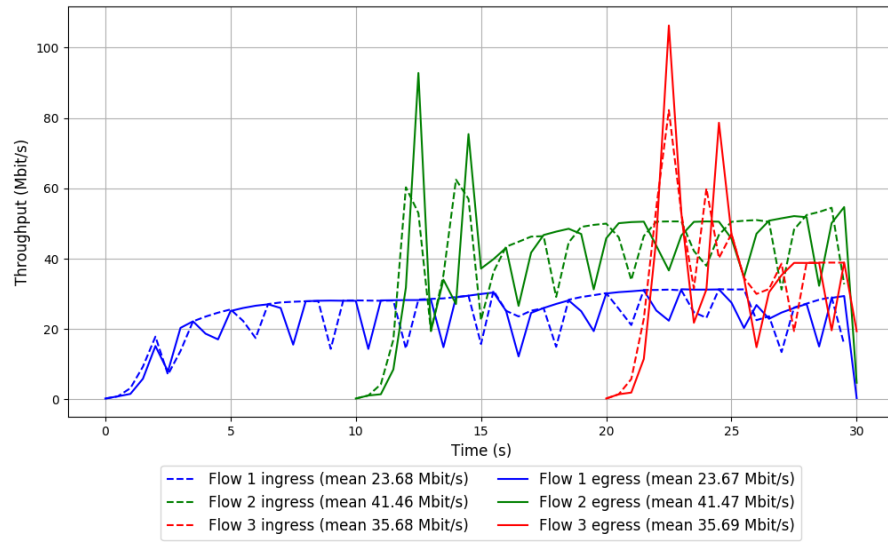
-- Flow 3:

Average throughput: 35.69 Mbit/s

95th percentile per-packet one-way delay: 151.771 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-17 09:26:02

End at: 2017-11-17 09:26:32

Below is generated by plot.py at 2017-11-17 11:35:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.10 Mbit/s

95th percentile per-packet one-way delay: 161.336 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 38.83 Mbit/s

95th percentile per-packet one-way delay: 162.033 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 10.69 Mbit/s

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

Loss rate: 0.00%

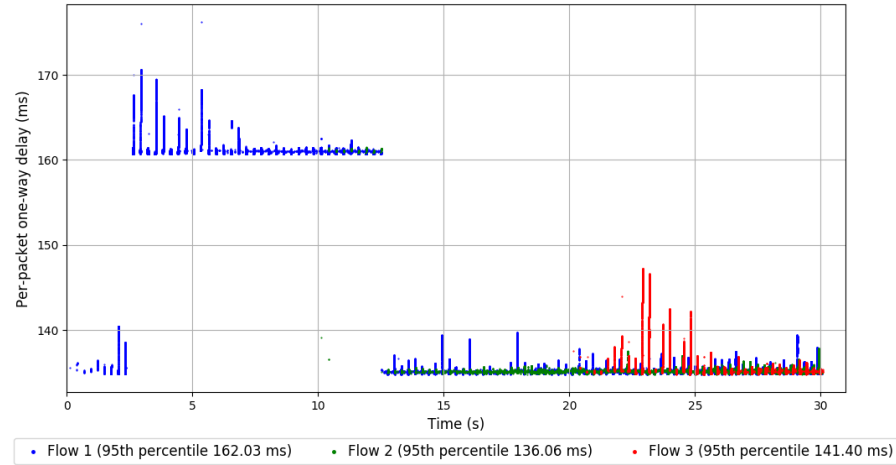
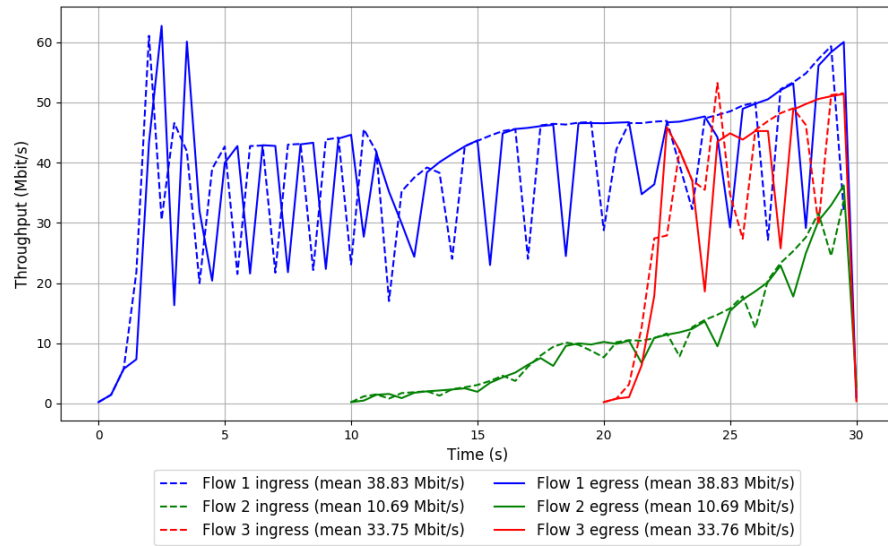
-- Flow 3:

Average throughput: 33.76 Mbit/s

95th percentile per-packet one-way delay: 141.395 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-17 09:39:34

End at: 2017-11-17 09:40:04

Below is generated by plot.py at 2017-11-17 11:35:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.01 Mbit/s

95th percentile per-packet one-way delay: 142.463 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 49.70 Mbit/s

95th percentile per-packet one-way delay: 140.223 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 49.49 Mbit/s

95th percentile per-packet one-way delay: 146.651 ms

Loss rate: 0.00%

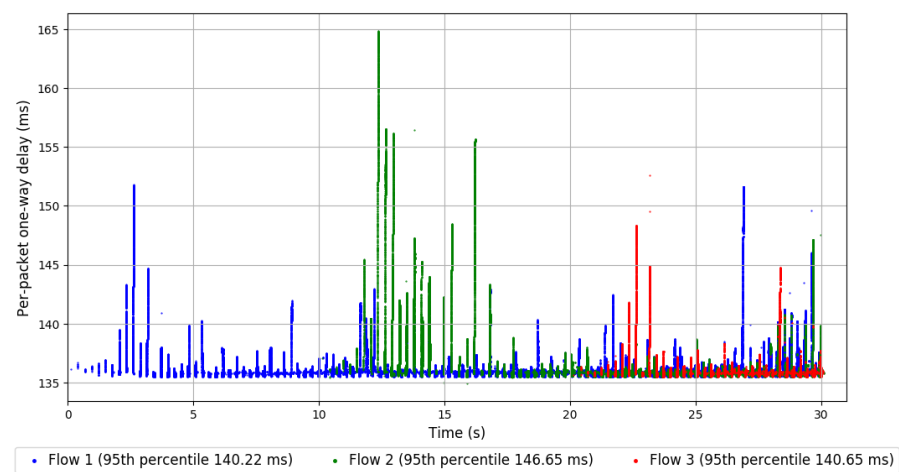
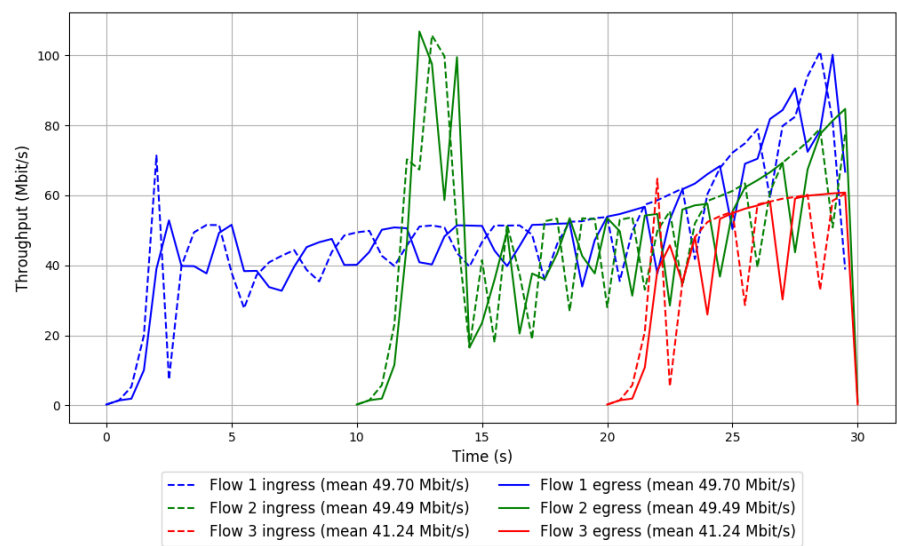
-- Flow 3:

Average throughput: 41.24 Mbit/s

95th percentile per-packet one-way delay: 140.654 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-17 09:53:57

End at: 2017-11-17 09:54:27

Below is generated by plot.py at 2017-11-17 11:35:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.66 Mbit/s

95th percentile per-packet one-way delay: 141.499 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 38.18 Mbit/s

95th percentile per-packet one-way delay: 140.634 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 38.38 Mbit/s

95th percentile per-packet one-way delay: 141.580 ms

Loss rate: 0.00%

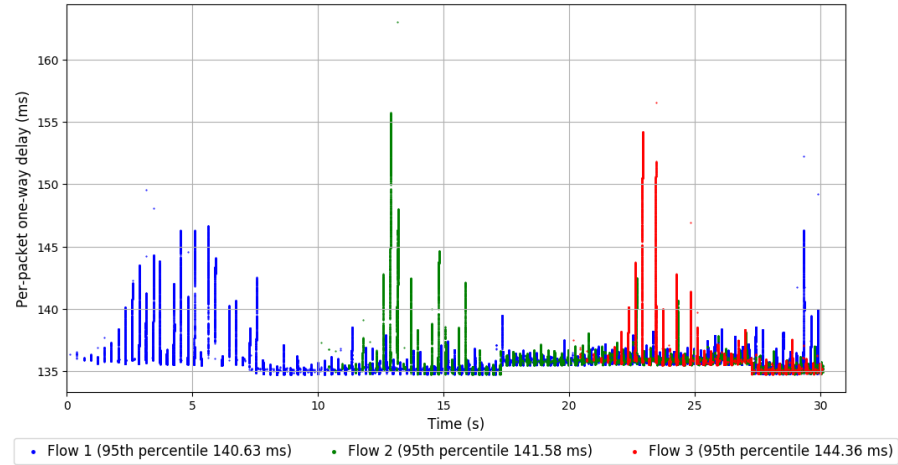
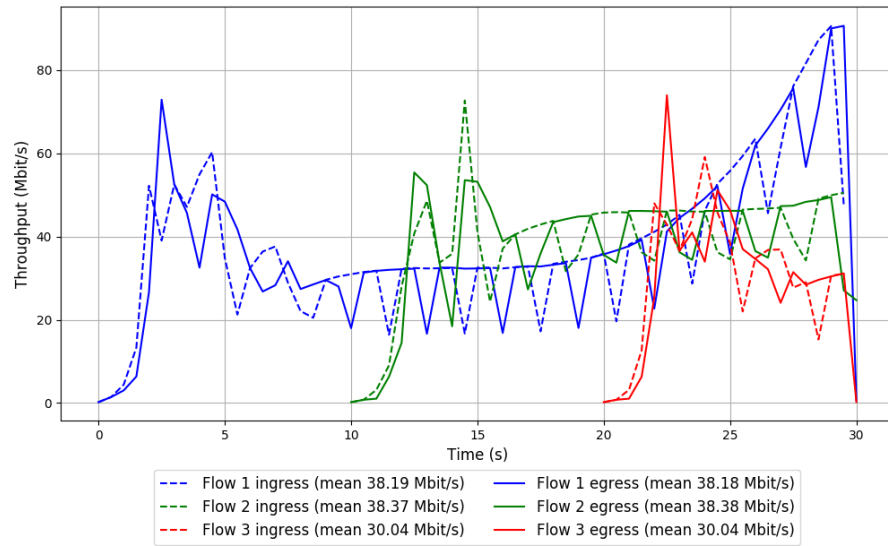
-- Flow 3:

Average throughput: 30.04 Mbit/s

95th percentile per-packet one-way delay: 144.361 ms

Loss rate: 0.02%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-17 10:07:53

End at: 2017-11-17 10:08:23

Below is generated by plot.py at 2017-11-17 11:35:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.27 Mbit/s

95th percentile per-packet one-way delay: 138.240 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 38.45 Mbit/s

95th percentile per-packet one-way delay: 137.882 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 43.46 Mbit/s

95th percentile per-packet one-way delay: 138.016 ms

Loss rate: 0.00%

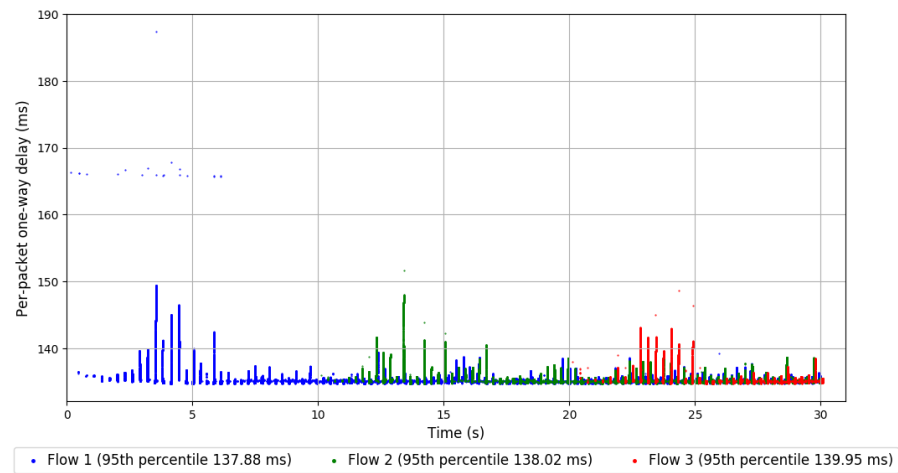
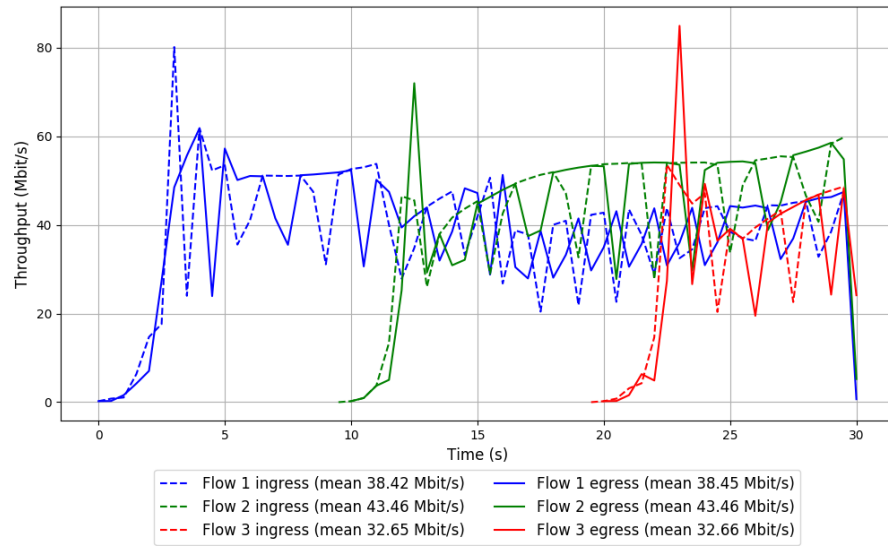
-- Flow 3:

Average throughput: 32.66 Mbit/s

95th percentile per-packet one-way delay: 139.947 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-17 10:21:28

End at: 2017-11-17 10:21:58

Below is generated by plot.py at 2017-11-17 11:35:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.54 Mbit/s

95th percentile per-packet one-way delay: 143.759 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 38.89 Mbit/s

95th percentile per-packet one-way delay: 143.797 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 33.98 Mbit/s

95th percentile per-packet one-way delay: 142.565 ms

Loss rate: 0.16%

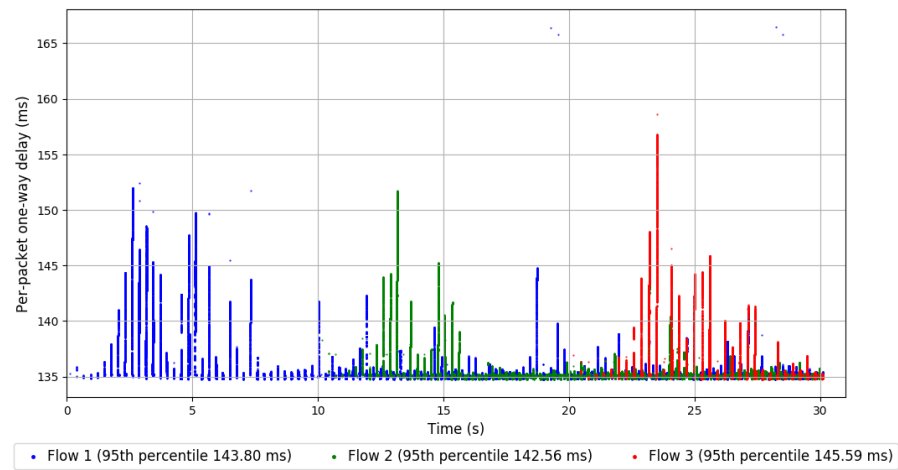
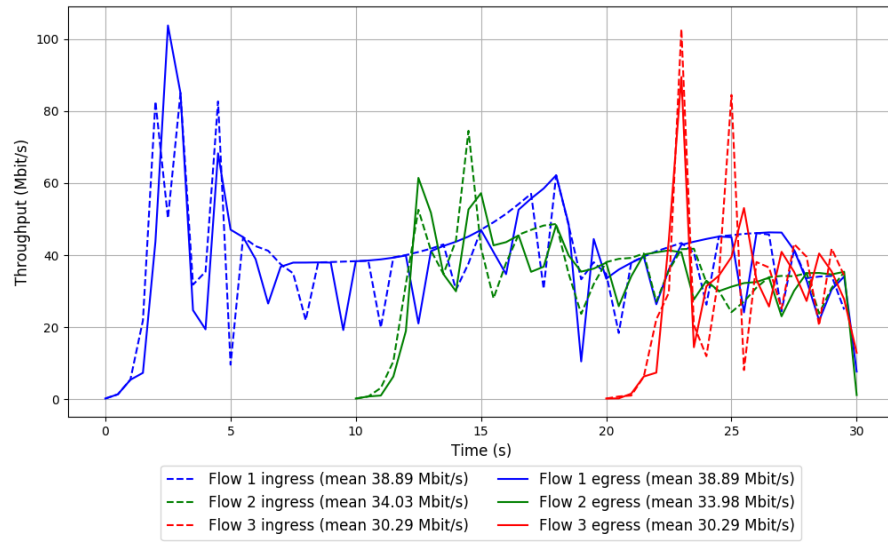
-- Flow 3:

Average throughput: 30.29 Mbit/s

95th percentile per-packet one-way delay: 145.591 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-17 10:35:16

End at: 2017-11-17 10:35:46

Below is generated by plot.py at 2017-11-17 11:35:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.43 Mbit/s

95th percentile per-packet one-way delay: 165.859 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 42.52 Mbit/s

95th percentile per-packet one-way delay: 149.772 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 36.97 Mbit/s

95th percentile per-packet one-way delay: 147.714 ms

Loss rate: 0.02%

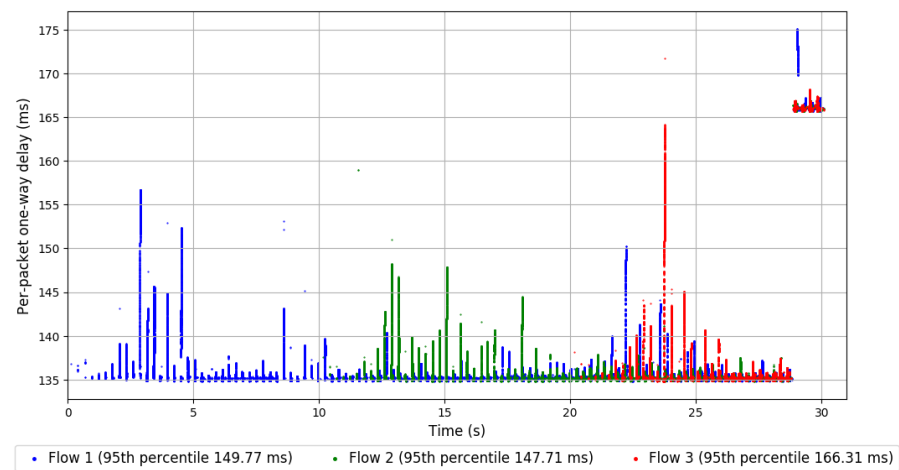
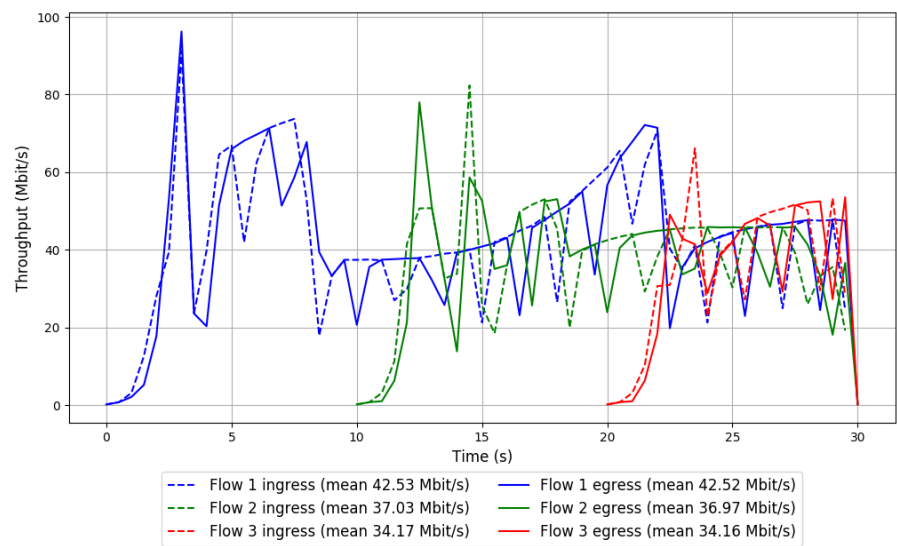
-- Flow 3:

Average throughput: 34.16 Mbit/s

95th percentile per-packet one-way delay: 166.309 ms

Loss rate: 0.13%

Run 10: Report of TCP Cubic — Data Link

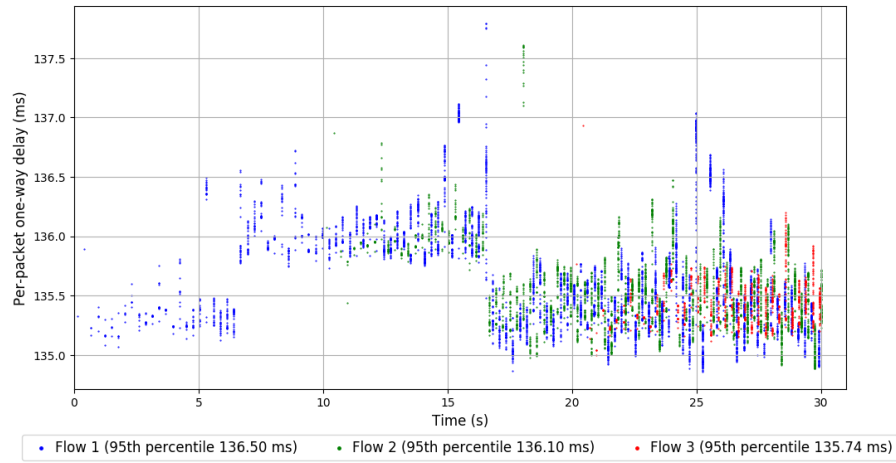
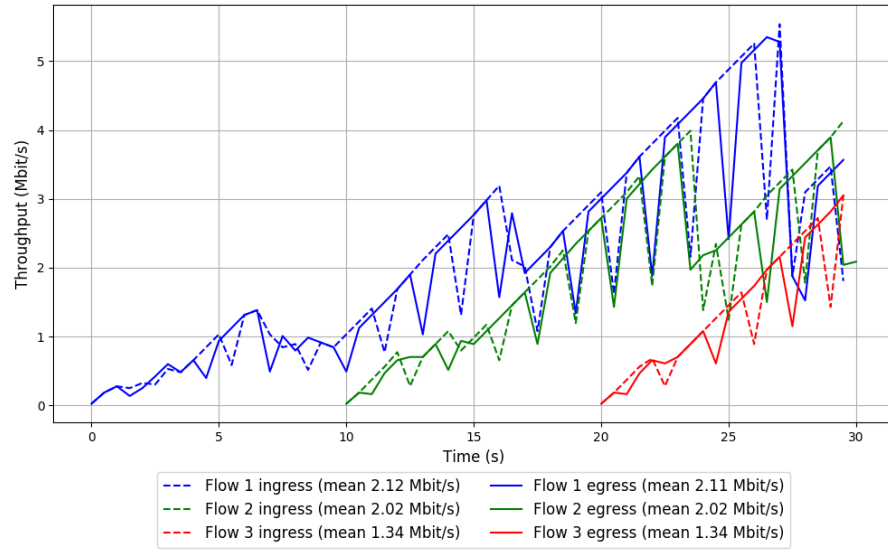


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-17 08:34:18
End at: 2017-11-17 08:34:48

# Below is generated by plot.py at 2017-11-17 11:35:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 136.286 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 136.504 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 136.103 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 1.34 Mbit/s
95th percentile per-packet one-way delay: 135.743 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

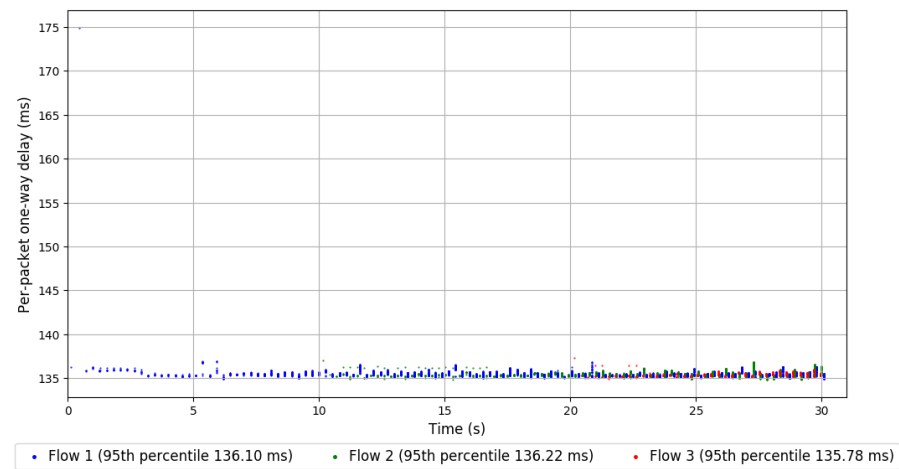
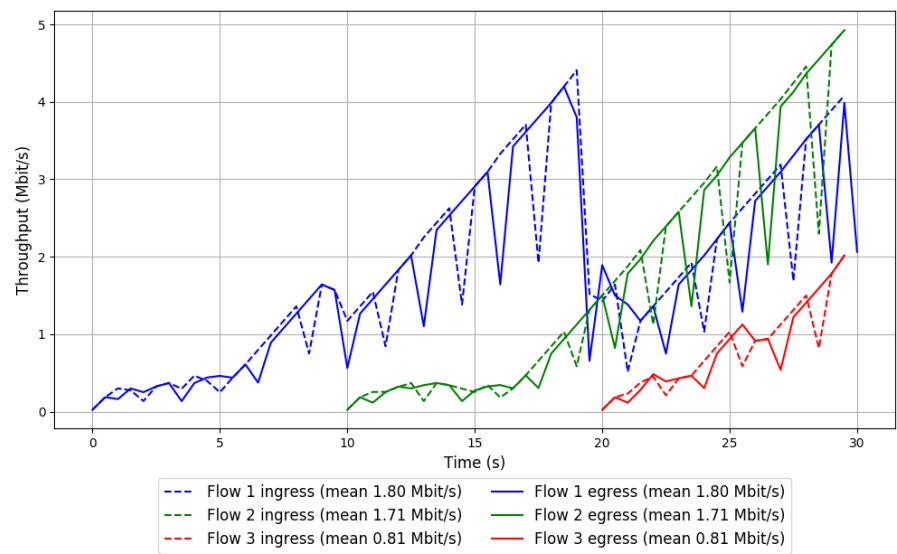


```
Run 2: Statistics of LEDBAT

Start at: 2017-11-17 08:48:22
End at: 2017-11-17 08:48:52

# Below is generated by plot.py at 2017-11-17 11:35:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.20 Mbit/s
95th percentile per-packet one-way delay: 136.112 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 1.80 Mbit/s
95th percentile per-packet one-way delay: 136.105 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 1.71 Mbit/s
95th percentile per-packet one-way delay: 136.219 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.81 Mbit/s
95th percentile per-packet one-way delay: 135.784 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-11-17 09:02:30

End at: 2017-11-17 09:03:00

Below is generated by plot.py at 2017-11-17 11:35:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.10 Mbit/s

95th percentile per-packet one-way delay: 137.281 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 137.268 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 137.388 ms

Loss rate: 0.04%

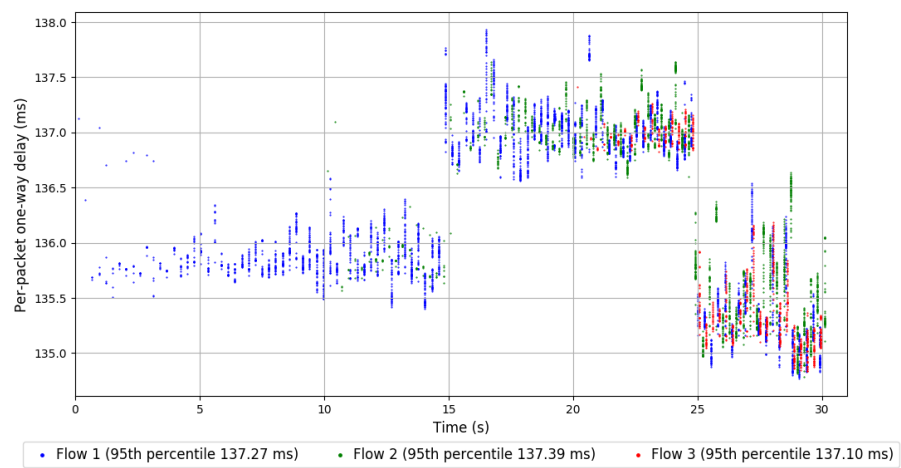
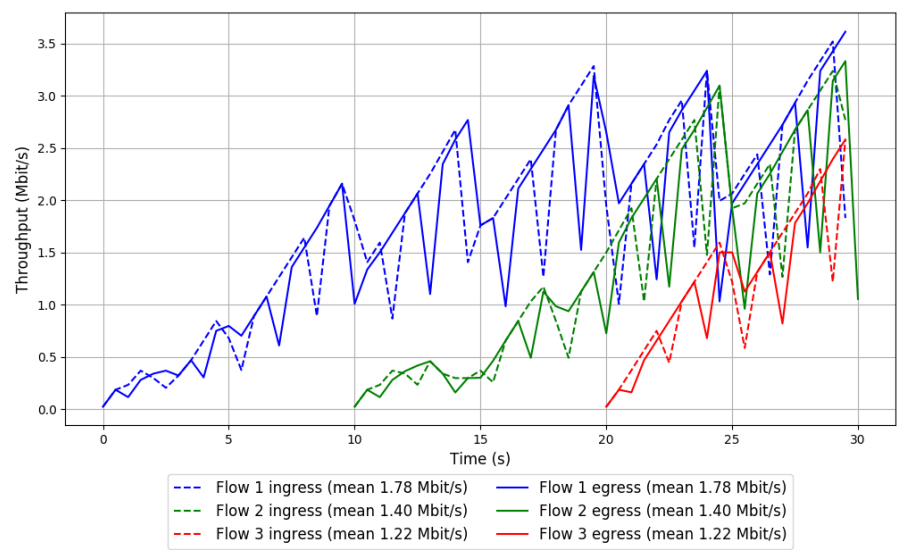
-- Flow 3:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 137.098 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-17 09:16:15

End at: 2017-11-17 09:16:45

Below is generated by plot.py at 2017-11-17 11:35:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.14 Mbit/s

95th percentile per-packet one-way delay: 136.996 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 4.06 Mbit/s

95th percentile per-packet one-way delay: 137.069 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.15 Mbit/s

95th percentile per-packet one-way delay: 135.789 ms

Loss rate: 0.46%

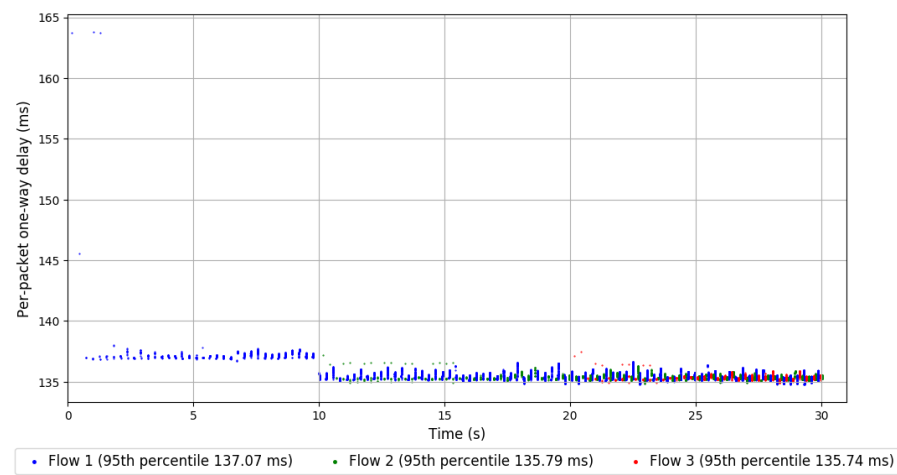
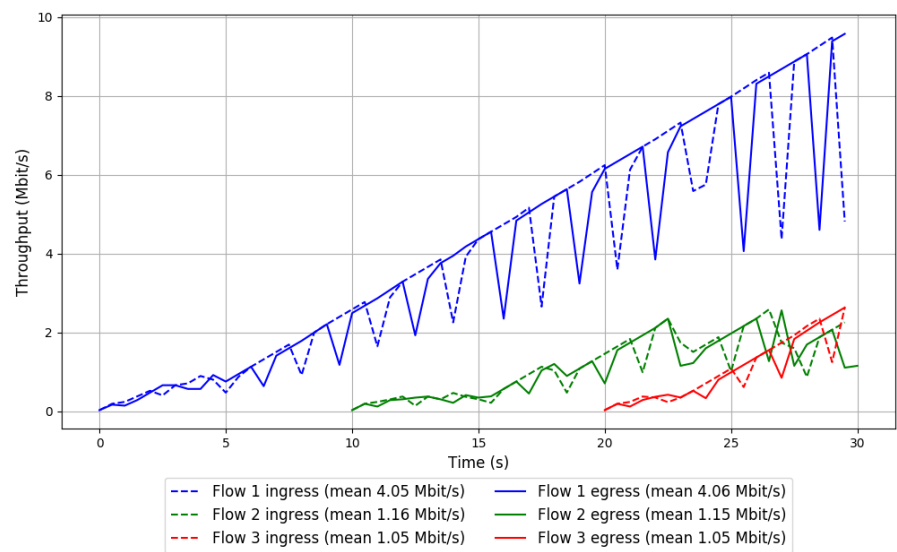
-- Flow 3:

Average throughput: 1.05 Mbit/s

95th percentile per-packet one-way delay: 135.741 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-11-17 09:29:39

End at: 2017-11-17 09:30:09

Below is generated by plot.py at 2017-11-17 11:35:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.40 Mbit/s

95th percentile per-packet one-way delay: 161.859 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 1.53 Mbit/s

95th percentile per-packet one-way delay: 161.476 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 2.54 Mbit/s

95th percentile per-packet one-way delay: 162.131 ms

Loss rate: 0.00%

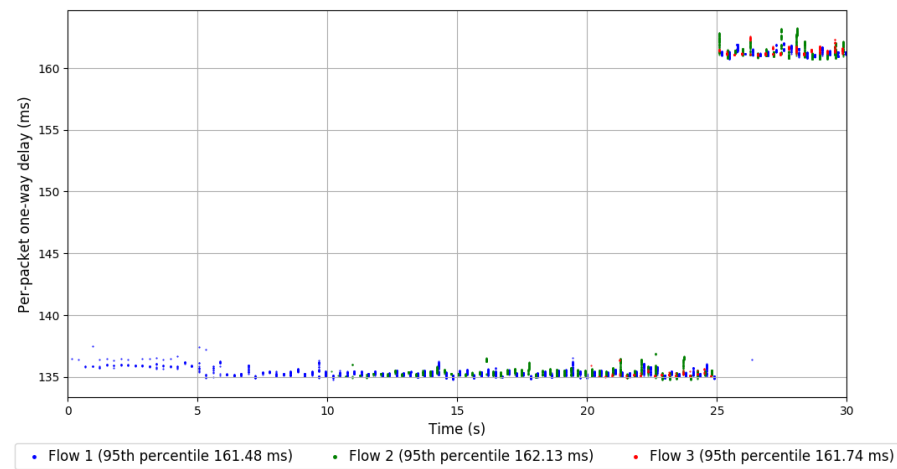
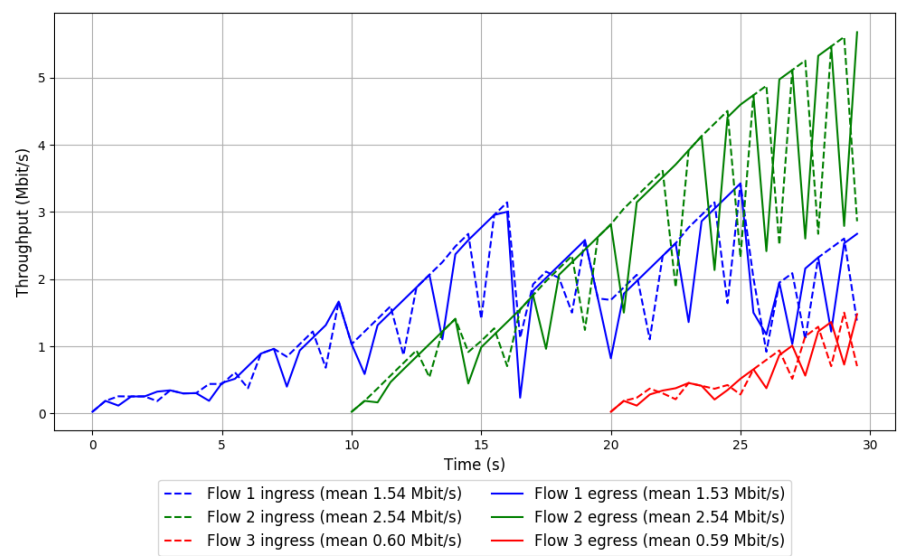
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 161.738 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-17 09:43:35

End at: 2017-11-17 09:44:05

Below is generated by plot.py at 2017-11-17 11:35:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 136.610 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 136.732 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 136.538 ms

Loss rate: 0.97%

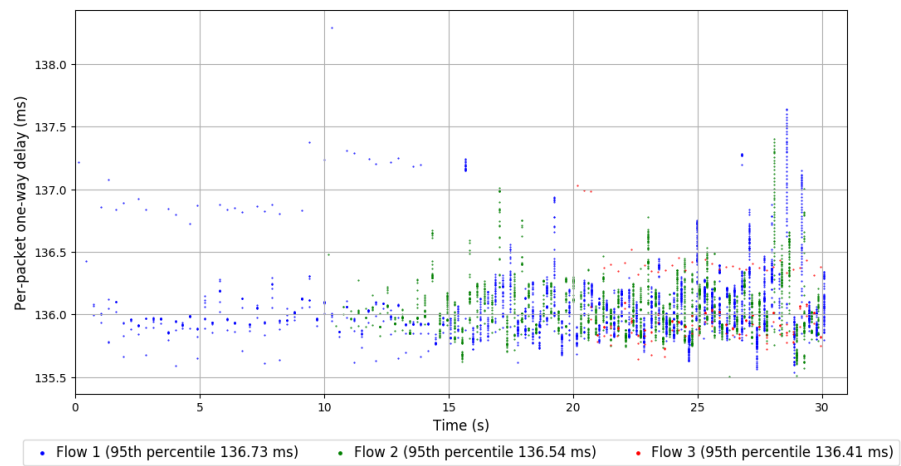
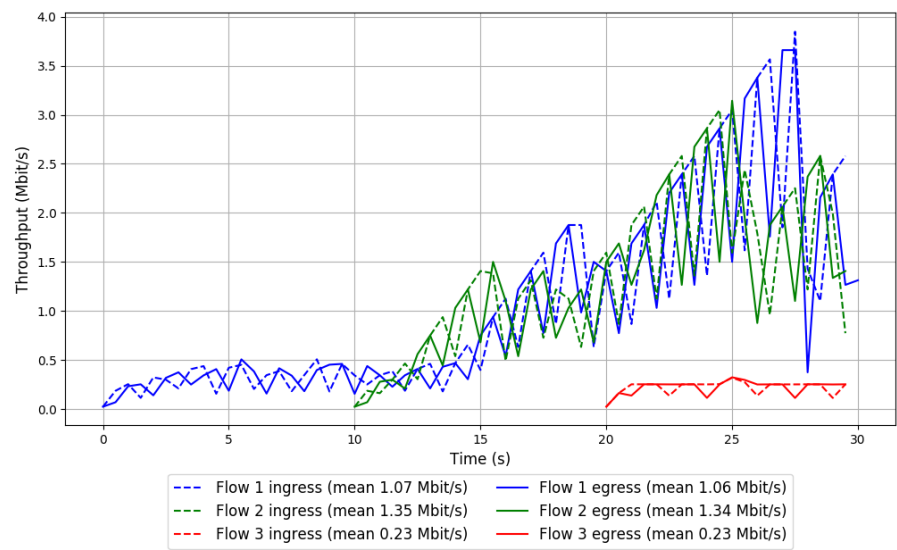
-- Flow 3:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 136.410 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-11-17 09:57:55

End at: 2017-11-17 09:58:25

Below is generated by plot.py at 2017-11-17 11:35:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.98 Mbit/s

95th percentile per-packet one-way delay: 136.929 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 3.22 Mbit/s

95th percentile per-packet one-way delay: 137.108 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 136.520 ms

Loss rate: 0.06%

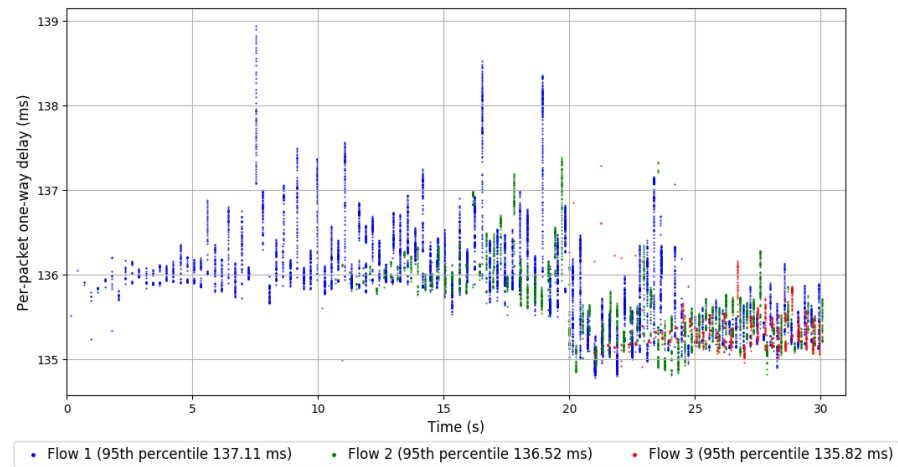
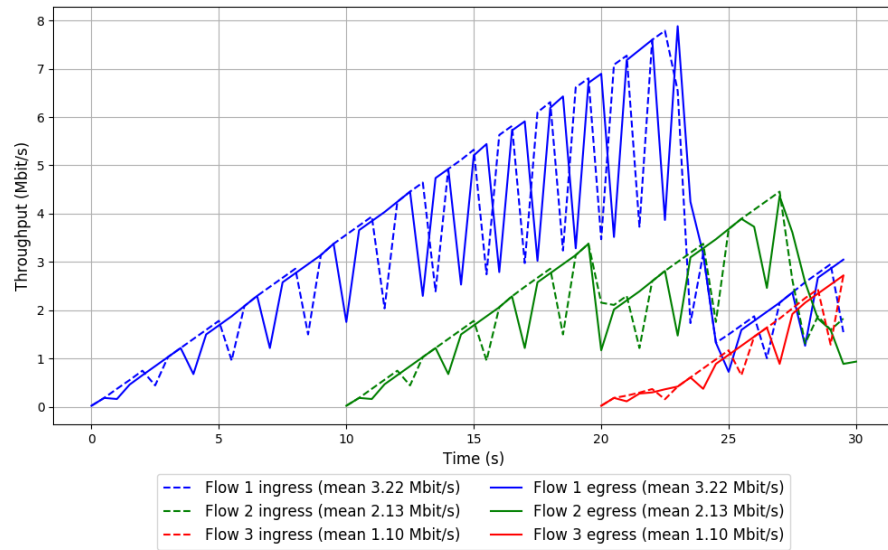
-- Flow 3:

Average throughput: 1.10 Mbit/s

95th percentile per-packet one-way delay: 135.818 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-17 10:11:48

End at: 2017-11-17 10:12:18

Below is generated by plot.py at 2017-11-17 11:35:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.66 Mbit/s

95th percentile per-packet one-way delay: 166.634 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 166.658 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 1.53 Mbit/s

95th percentile per-packet one-way delay: 166.670 ms

Loss rate: 0.00%

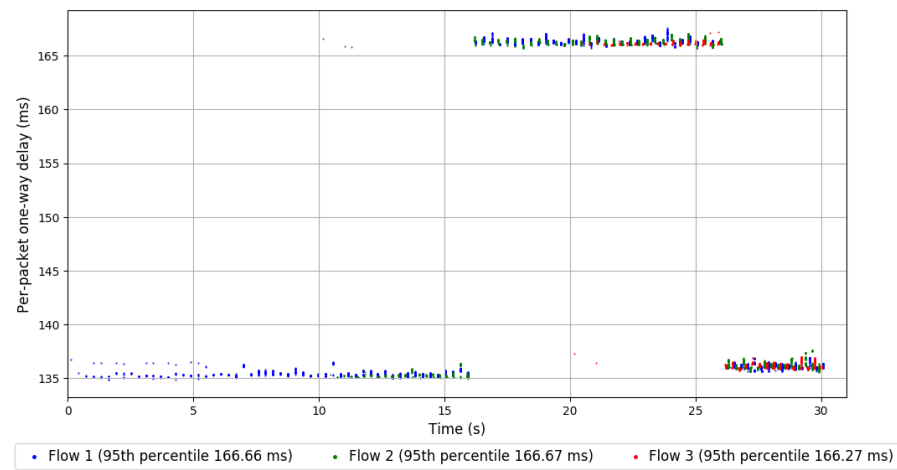
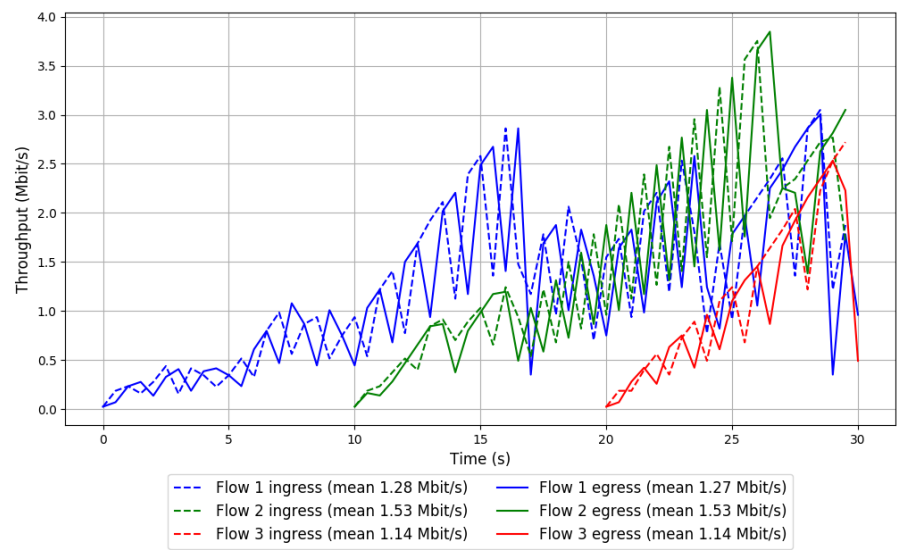
-- Flow 3:

Average throughput: 1.14 Mbit/s

95th percentile per-packet one-way delay: 166.267 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-17 10:25:19

End at: 2017-11-17 10:25:49

Below is generated by plot.py at 2017-11-17 11:35:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.60 Mbit/s

95th percentile per-packet one-way delay: 166.410 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 166.454 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 1.51 Mbit/s

95th percentile per-packet one-way delay: 166.416 ms

Loss rate: 0.00%

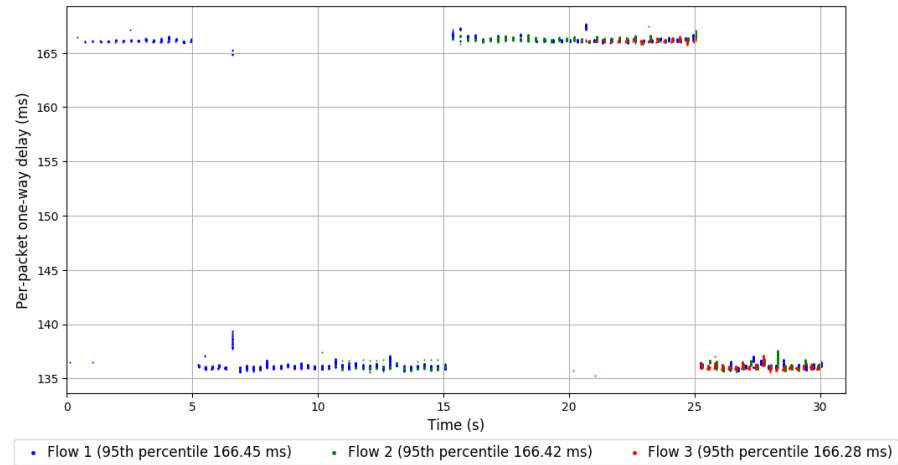
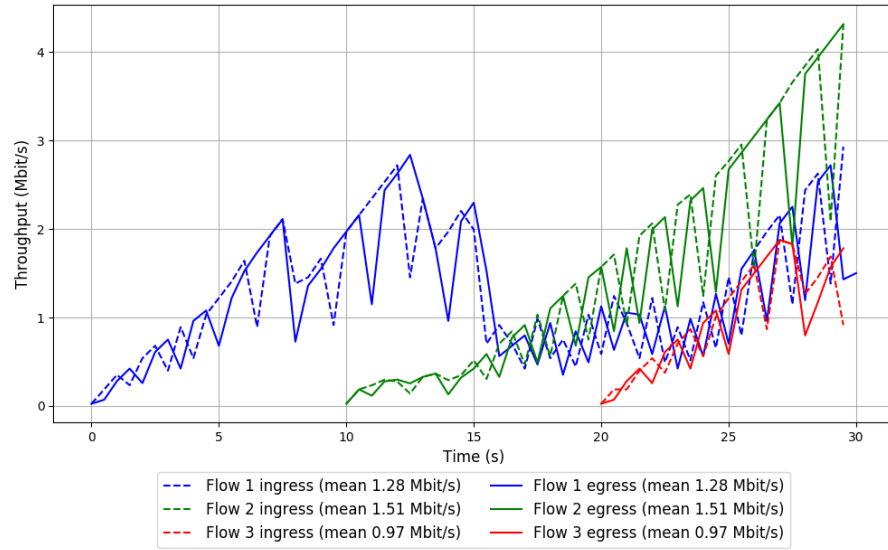
-- Flow 3:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 166.279 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-11-17 10:39:11

End at: 2017-11-17 10:39:41

Below is generated by plot.py at 2017-11-17 11:35:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 161.967 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 161.969 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 161.604 ms

Loss rate: 0.00%

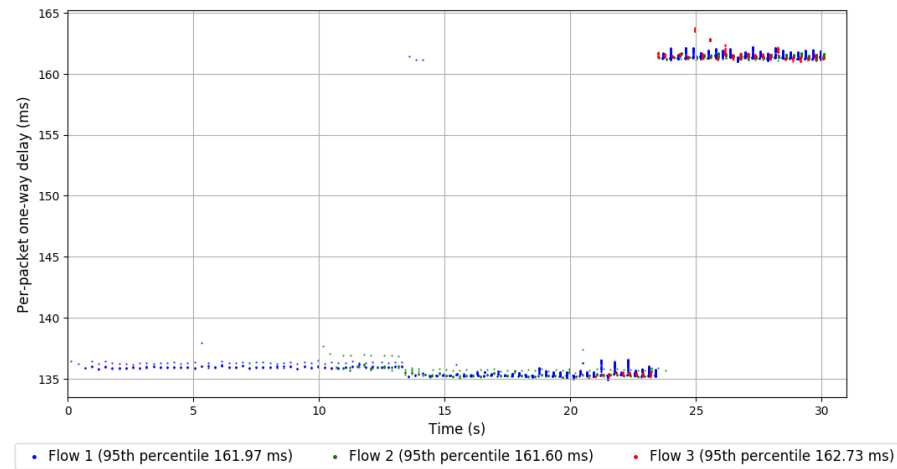
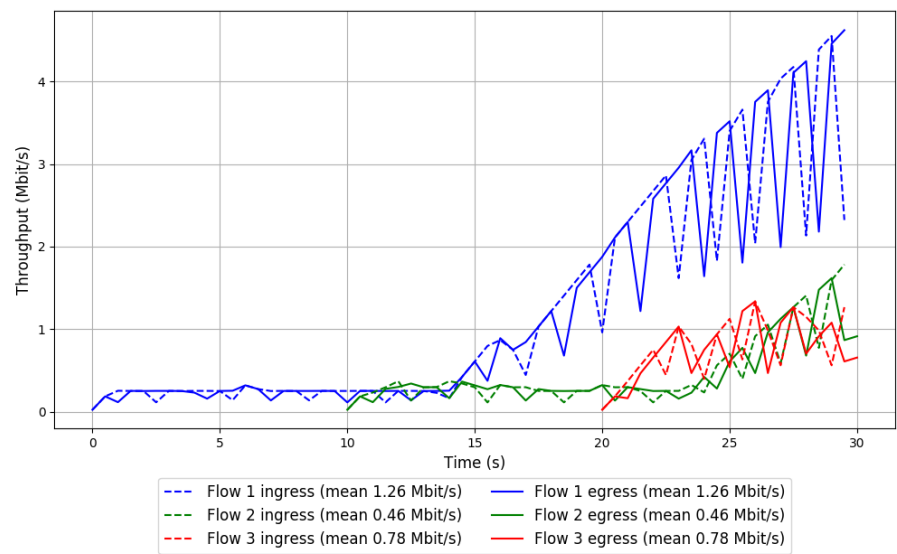
-- Flow 3:

Average throughput: 0.78 Mbit/s

95th percentile per-packet one-way delay: 162.733 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

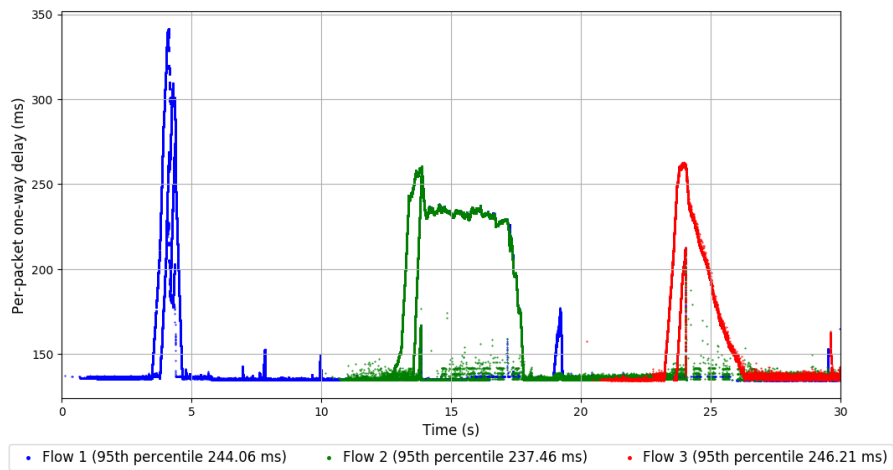
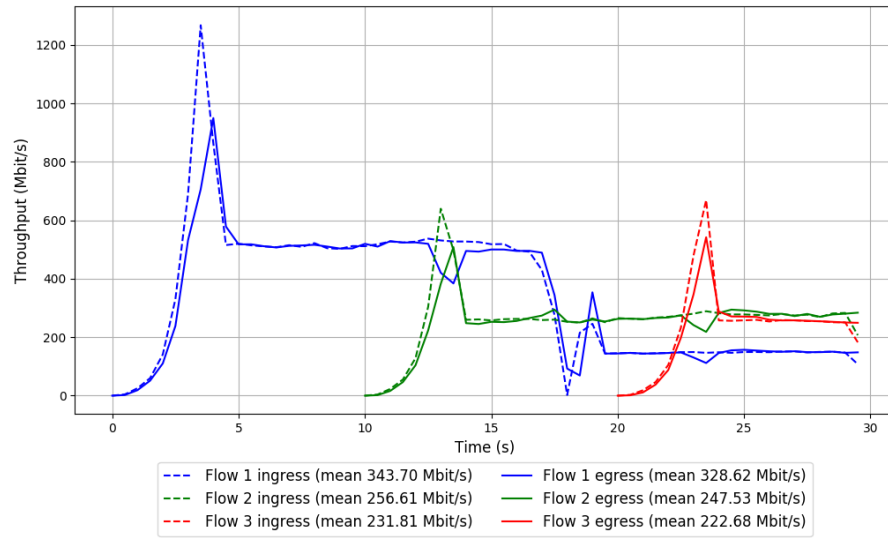


```
Run 1: Statistics of PCC

Start at: 2017-11-17 08:31:09
End at: 2017-11-17 08:31:39

# Below is generated by plot.py at 2017-11-17 11:44:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 566.08 Mbit/s
95th percentile per-packet one-way delay: 242.000 ms
Loss rate: 4.11%
-- Flow 1:
Average throughput: 328.62 Mbit/s
95th percentile per-packet one-way delay: 244.062 ms
Loss rate: 4.39%
-- Flow 2:
Average throughput: 247.53 Mbit/s
95th percentile per-packet one-way delay: 237.462 ms
Loss rate: 3.54%
-- Flow 3:
Average throughput: 222.68 Mbit/s
95th percentile per-packet one-way delay: 246.205 ms
Loss rate: 4.14%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-11-17 08:45:20

End at: 2017-11-17 08:45:50

Below is generated by plot.py at 2017-11-17 11:45:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 606.57 Mbit/s

95th percentile per-packet one-way delay: 236.622 ms

Loss rate: 2.01%

-- Flow 1:

Average throughput: 511.79 Mbit/s

95th percentile per-packet one-way delay: 236.604 ms

Loss rate: 2.13%

-- Flow 2:

Average throughput: 126.38 Mbit/s

95th percentile per-packet one-way delay: 236.634 ms

Loss rate: 1.38%

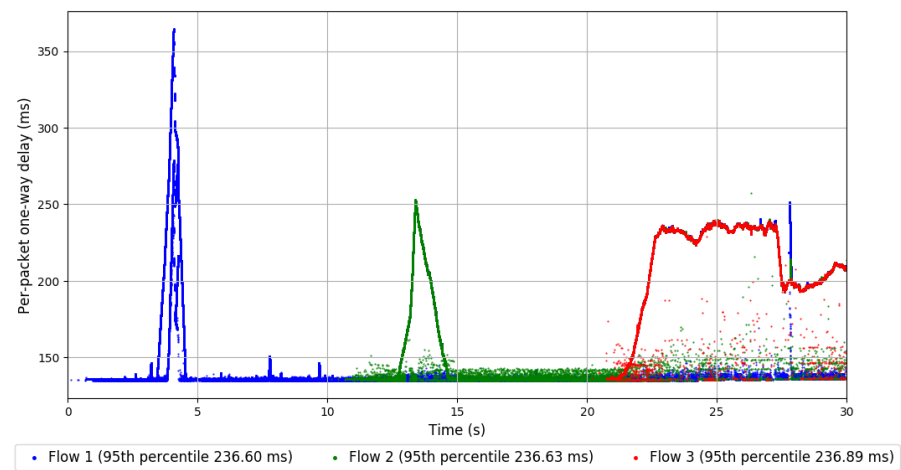
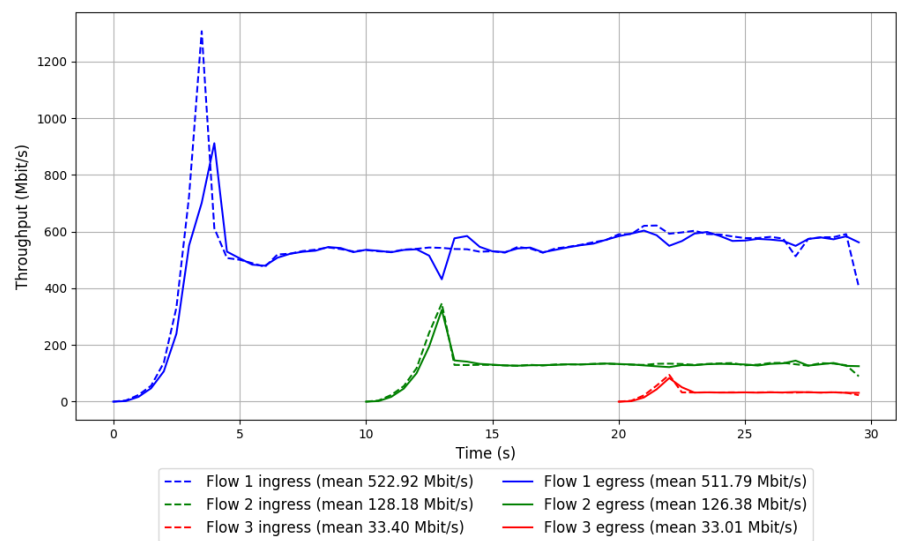
-- Flow 3:

Average throughput: 33.01 Mbit/s

95th percentile per-packet one-way delay: 236.894 ms

Loss rate: 1.19%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-11-17 08:59:19

End at: 2017-11-17 08:59:49

Below is generated by plot.py at 2017-11-17 11:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 623.77 Mbit/s

95th percentile per-packet one-way delay: 265.490 ms

Loss rate: 3.57%

-- Flow 1:

Average throughput: 502.55 Mbit/s

95th percentile per-packet one-way delay: 272.506 ms

Loss rate: 3.44%

-- Flow 2:

Average throughput: 124.68 Mbit/s

95th percentile per-packet one-way delay: 238.637 ms

Loss rate: 3.33%

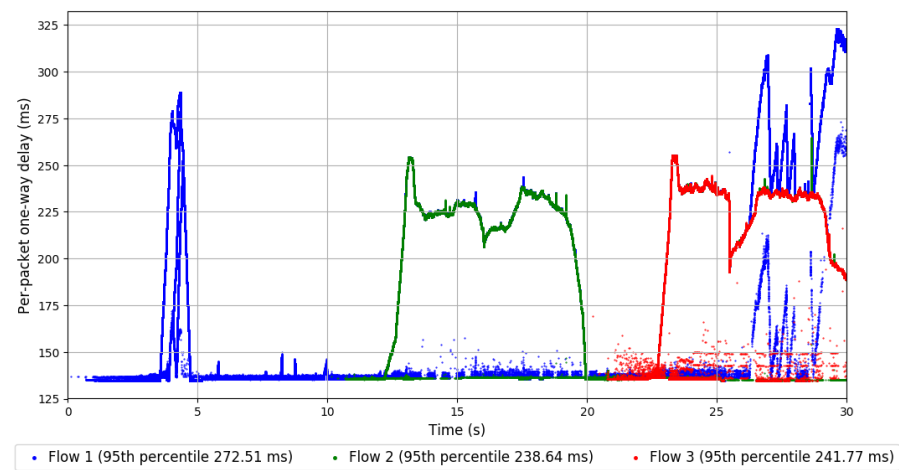
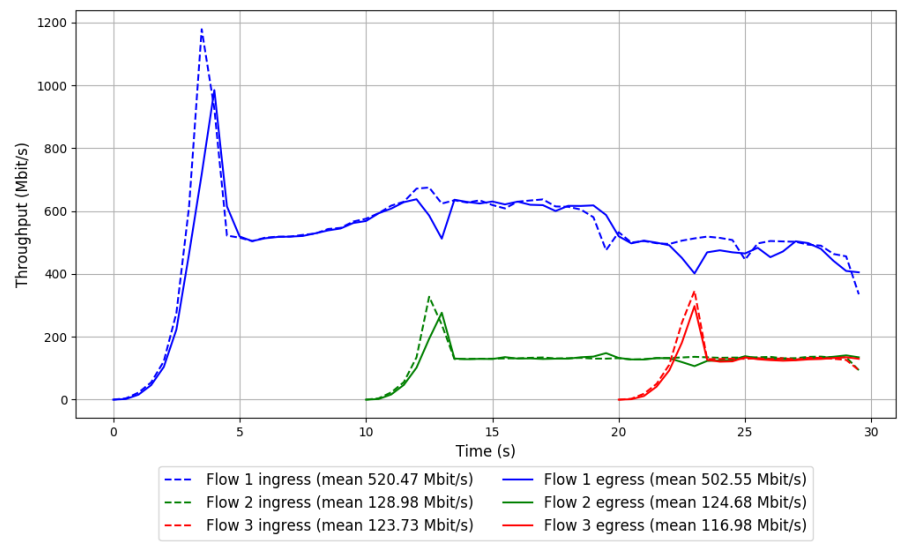
-- Flow 3:

Average throughput: 116.98 Mbit/s

95th percentile per-packet one-way delay: 241.768 ms

Loss rate: 5.75%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-11-17 09:13:14

End at: 2017-11-17 09:13:44

Below is generated by plot.py at 2017-11-17 11:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 570.44 Mbit/s

95th percentile per-packet one-way delay: 334.175 ms

Loss rate: 3.82%

-- Flow 1:

Average throughput: 460.73 Mbit/s

95th percentile per-packet one-way delay: 336.847 ms

Loss rate: 4.53%

-- Flow 2:

Average throughput: 133.40 Mbit/s

95th percentile per-packet one-way delay: 233.387 ms

Loss rate: 0.77%

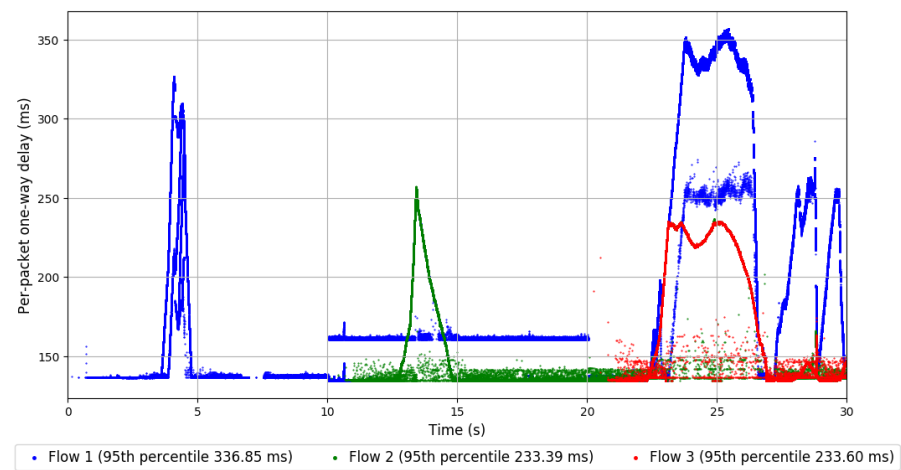
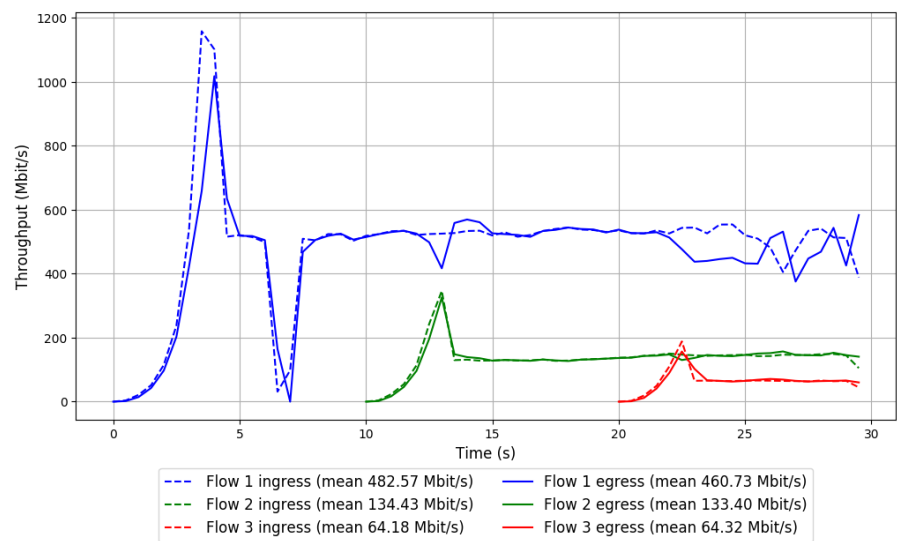
-- Flow 3:

Average throughput: 64.32 Mbit/s

95th percentile per-packet one-way delay: 233.598 ms

Loss rate: 0.36%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-11-17 09:26:55

End at: 2017-11-17 09:27:25

Below is generated by plot.py at 2017-11-17 11:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 148.54 Mbit/s

95th percentile per-packet one-way delay: 245.648 ms

Loss rate: 3.58%

-- Flow 1:

Average throughput: 8.66 Mbit/s

95th percentile per-packet one-way delay: 160.986 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 4.60 Mbit/s

95th percentile per-packet one-way delay: 161.003 ms

Loss rate: 0.56%

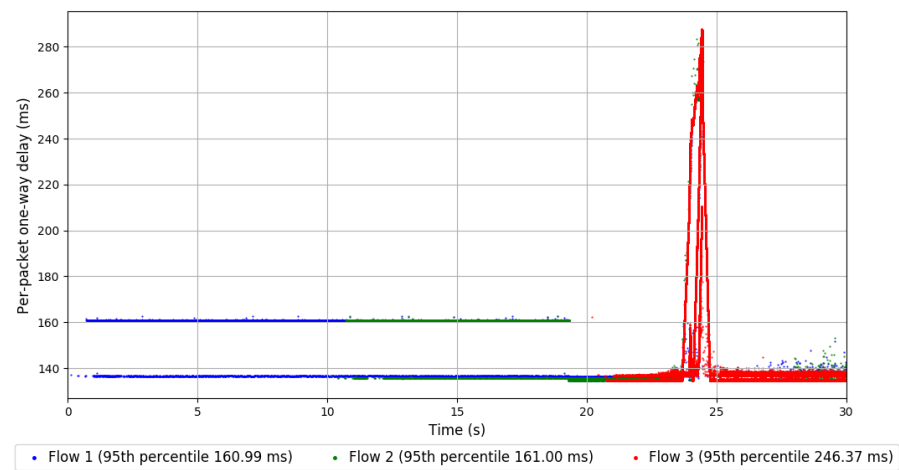
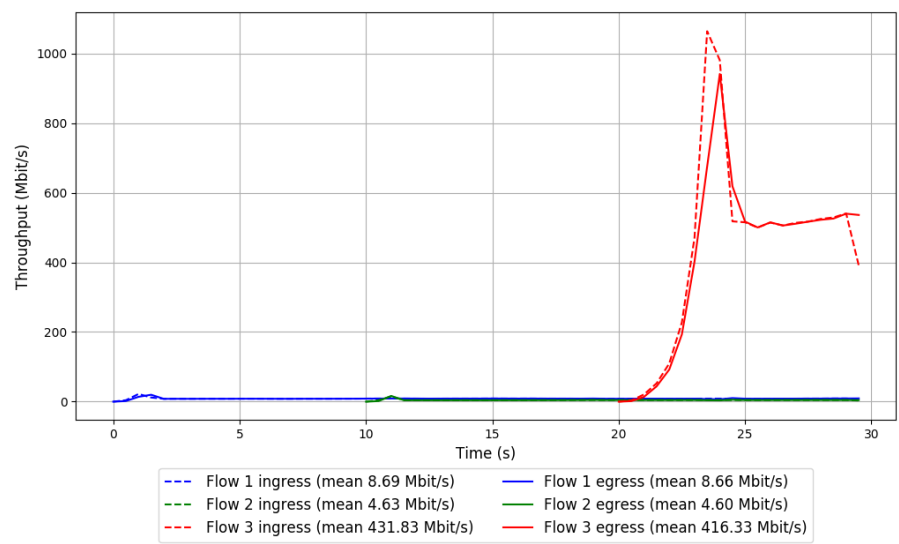
-- Flow 3:

Average throughput: 416.33 Mbit/s

95th percentile per-packet one-way delay: 246.374 ms

Loss rate: 3.84%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-11-17 09:40:30

End at: 2017-11-17 09:41:00

Below is generated by plot.py at 2017-11-17 11:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 592.20 Mbit/s

95th percentile per-packet one-way delay: 262.478 ms

Loss rate: 2.69%

-- Flow 1:

Average throughput: 497.24 Mbit/s

95th percentile per-packet one-way delay: 270.950 ms

Loss rate: 2.84%

-- Flow 2:

Average throughput: 127.12 Mbit/s

95th percentile per-packet one-way delay: 239.803 ms

Loss rate: 1.94%

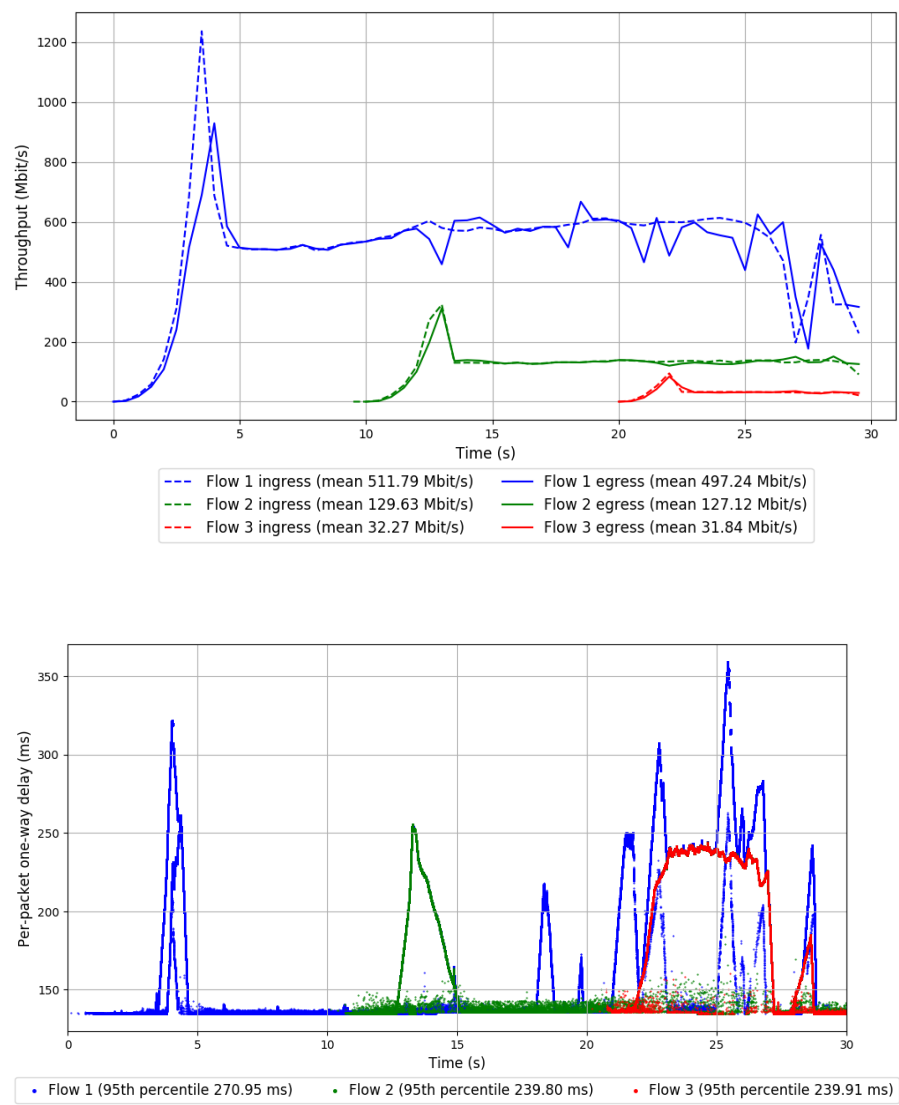
-- Flow 3:

Average throughput: 31.84 Mbit/s

95th percentile per-packet one-way delay: 239.914 ms

Loss rate: 1.36%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-17 09:54:52

End at: 2017-11-17 09:55:22

Below is generated by plot.py at 2017-11-17 11:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 564.64 Mbit/s

95th percentile per-packet one-way delay: 336.210 ms

Loss rate: 4.90%

-- Flow 1:

Average throughput: 467.57 Mbit/s

95th percentile per-packet one-way delay: 343.770 ms

Loss rate: 5.72%

-- Flow 2:

Average throughput: 129.61 Mbit/s

95th percentile per-packet one-way delay: 233.957 ms

Loss rate: 0.87%

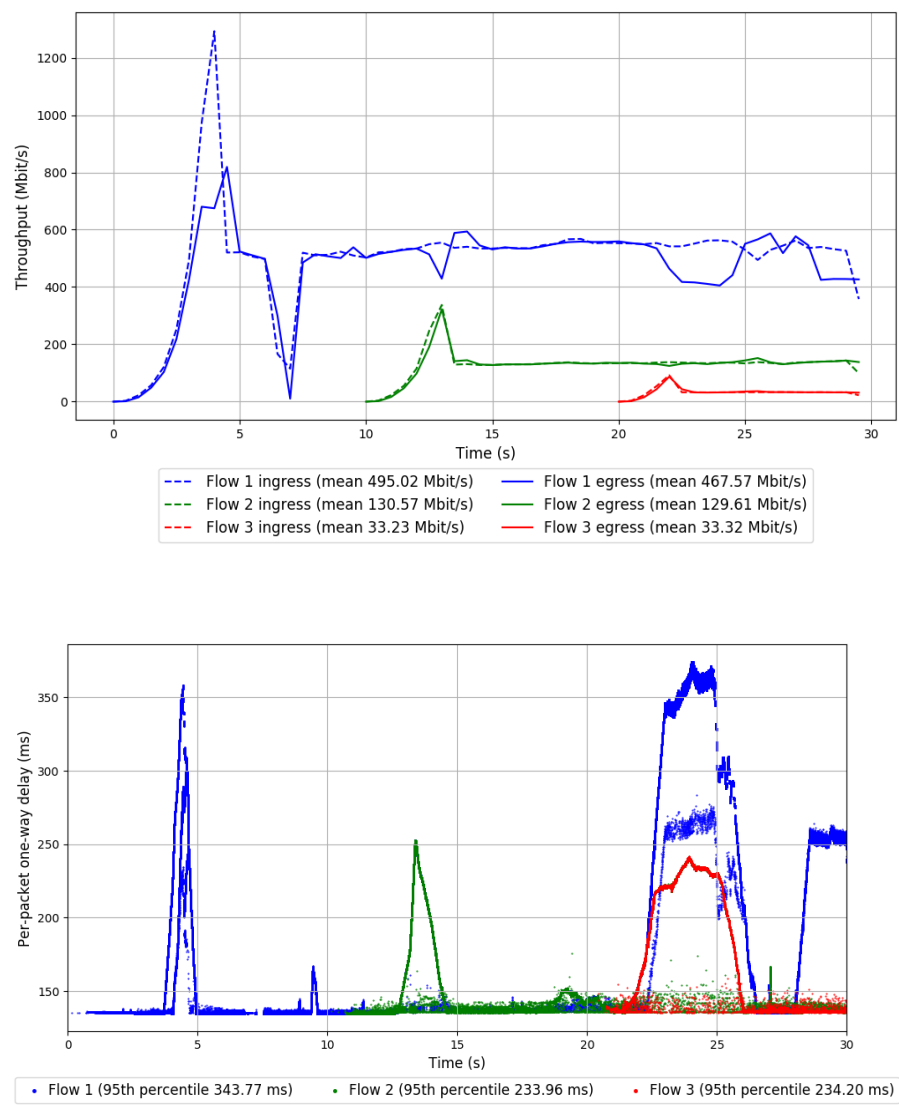
-- Flow 3:

Average throughput: 33.32 Mbit/s

95th percentile per-packet one-way delay: 234.202 ms

Loss rate: 0.06%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-11-17 10:08:48

End at: 2017-11-17 10:09:18

Below is generated by plot.py at 2017-11-17 11:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 544.22 Mbit/s

95th percentile per-packet one-way delay: 328.120 ms

Loss rate: 6.06%

-- Flow 1:

Average throughput: 457.66 Mbit/s

95th percentile per-packet one-way delay: 330.003 ms

Loss rate: 6.97%

-- Flow 2:

Average throughput: 128.15 Mbit/s

95th percentile per-packet one-way delay: 235.225 ms

Loss rate: 0.91%

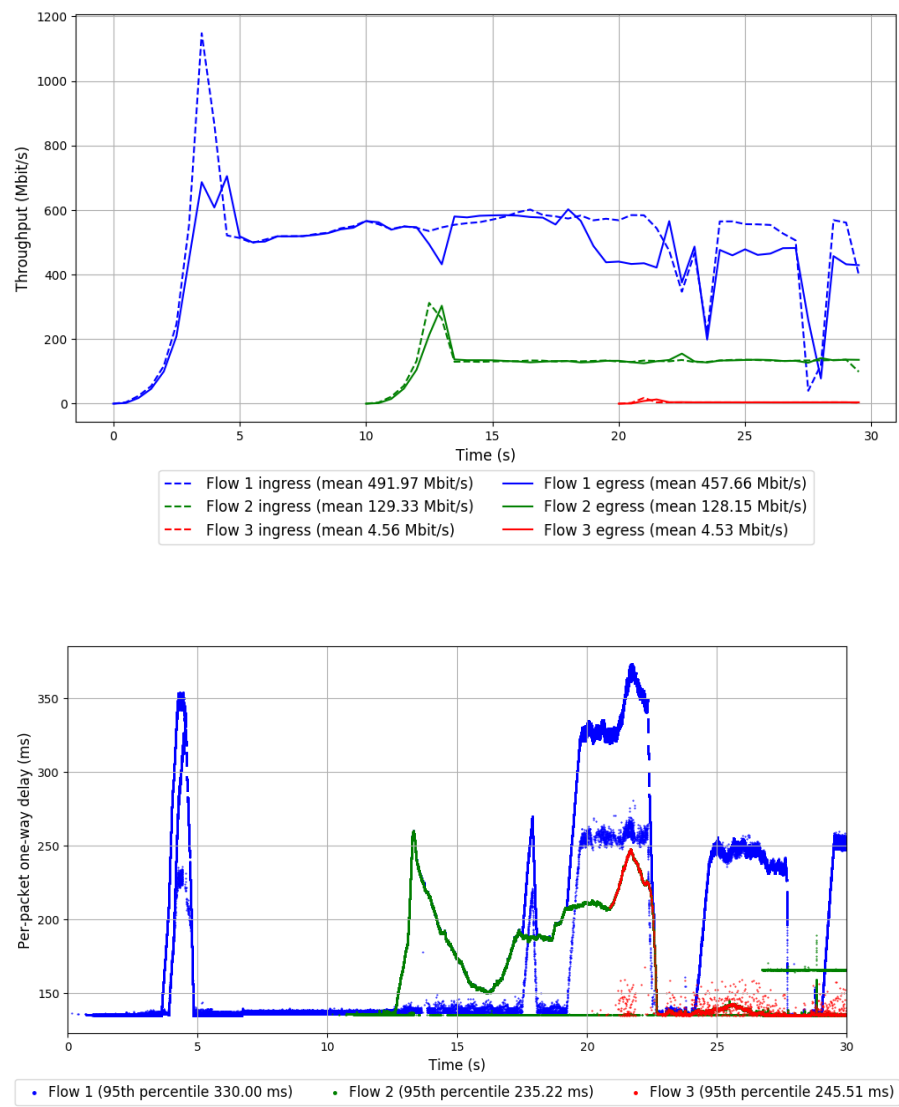
-- Flow 3:

Average throughput: 4.53 Mbit/s

95th percentile per-packet one-way delay: 245.511 ms

Loss rate: 0.73%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-11-17 10:22:22

End at: 2017-11-17 10:22:52

Below is generated by plot.py at 2017-11-17 11:49:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 543.87 Mbit/s

95th percentile per-packet one-way delay: 189.839 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 511.14 Mbit/s

95th percentile per-packet one-way delay: 192.137 ms

Loss rate: 1.17%

-- Flow 2:

Average throughput: 40.46 Mbit/s

95th percentile per-packet one-way delay: 166.401 ms

Loss rate: 0.01%

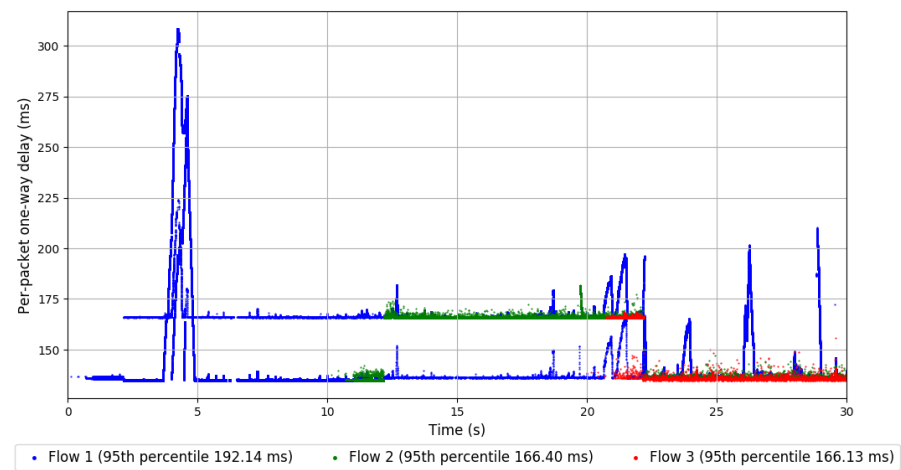
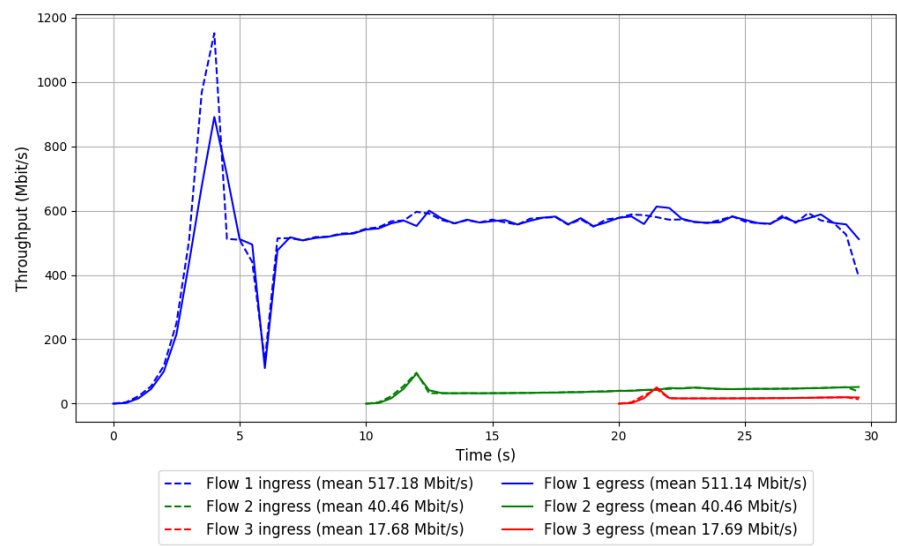
-- Flow 3:

Average throughput: 17.69 Mbit/s

95th percentile per-packet one-way delay: 166.133 ms

Loss rate: 0.00%

Run 9: Report of PCC — Data Link

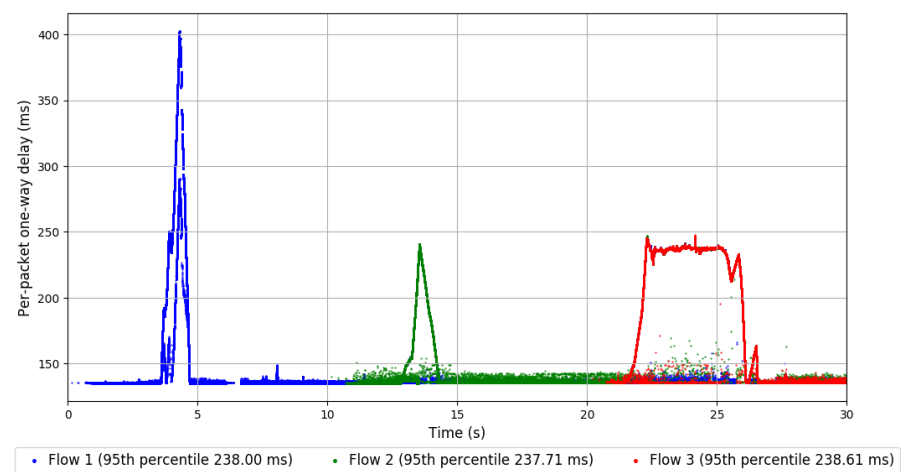
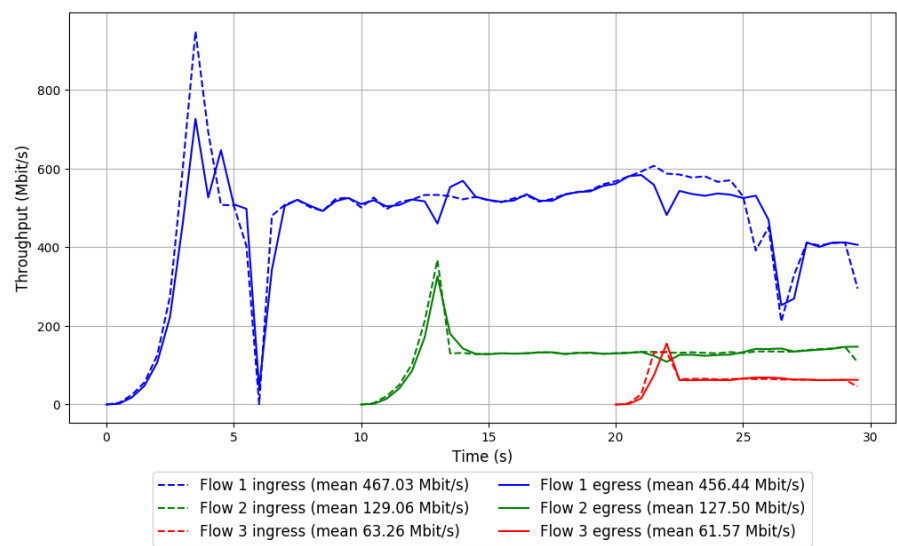


```
Run 10: Statistics of PCC

Start at: 2017-11-17 10:36:11
End at: 2017-11-17 10:36:41

# Below is generated by plot.py at 2017-11-17 11:55:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 561.30 Mbit/s
95th percentile per-packet one-way delay: 237.979 ms
Loss rate: 2.13%
-- Flow 1:
Average throughput: 456.44 Mbit/s
95th percentile per-packet one-way delay: 238.002 ms
Loss rate: 2.27%
-- Flow 2:
Average throughput: 127.50 Mbit/s
95th percentile per-packet one-way delay: 237.705 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 61.57 Mbit/s
95th percentile per-packet one-way delay: 238.610 ms
Loss rate: 2.70%
```

Run 10: Report of PCC — Data Link

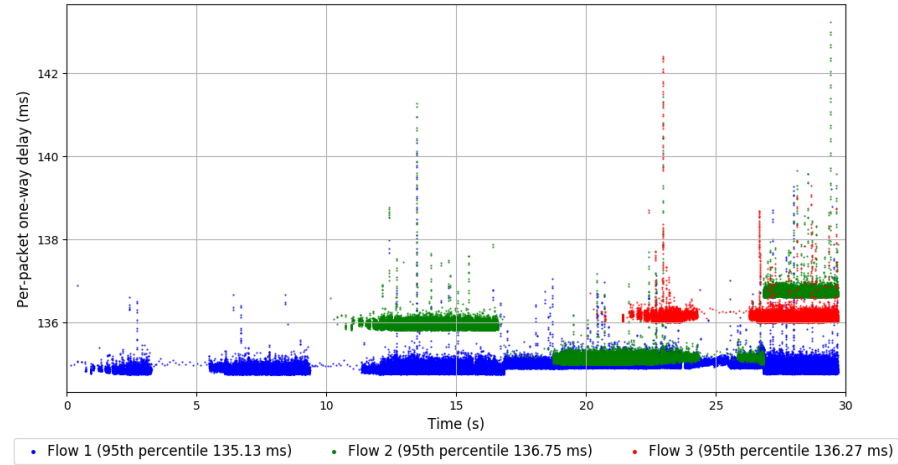
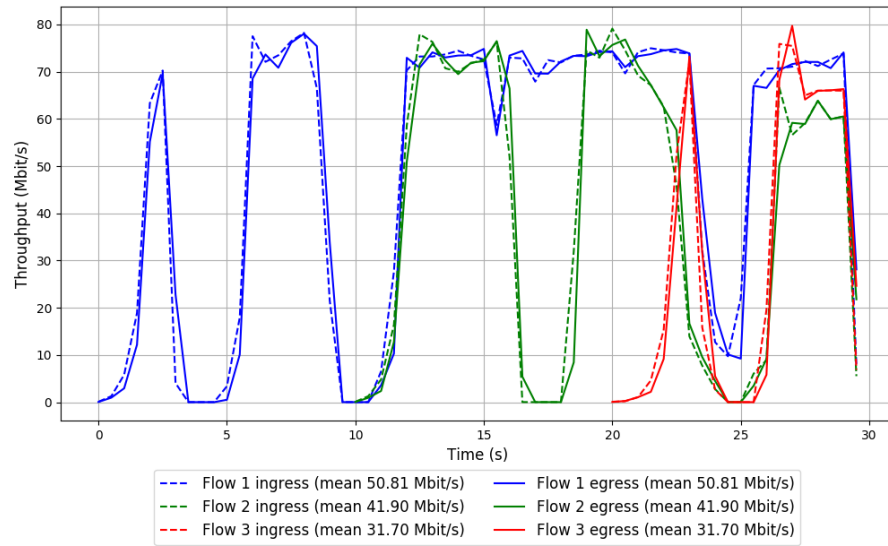


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-11-17 08:36:17
End at: 2017-11-17 08:36:47

# Below is generated by plot.py at 2017-11-17 11:55:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.76 Mbit/s
95th percentile per-packet one-way delay: 136.667 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.81 Mbit/s
95th percentile per-packet one-way delay: 135.133 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.90 Mbit/s
95th percentile per-packet one-way delay: 136.752 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 31.70 Mbit/s
95th percentile per-packet one-way delay: 136.267 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-11-17 08:50:23

End at: 2017-11-17 08:50:53

Below is generated by plot.py at 2017-11-17 11:55:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 103.80 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.23 Mbit/s

95th percentile per-packet one-way delay: 135.035 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 55.19 Mbit/s

95th percentile per-packet one-way delay: 135.439 ms

Loss rate: 0.00%

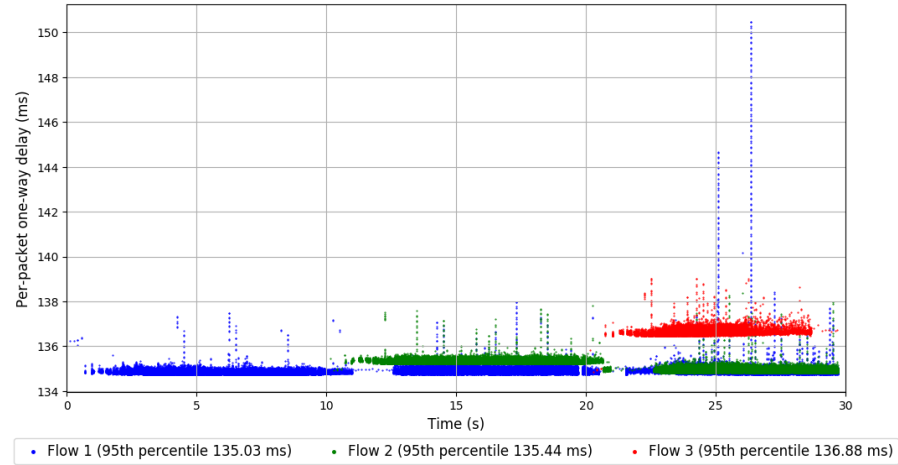
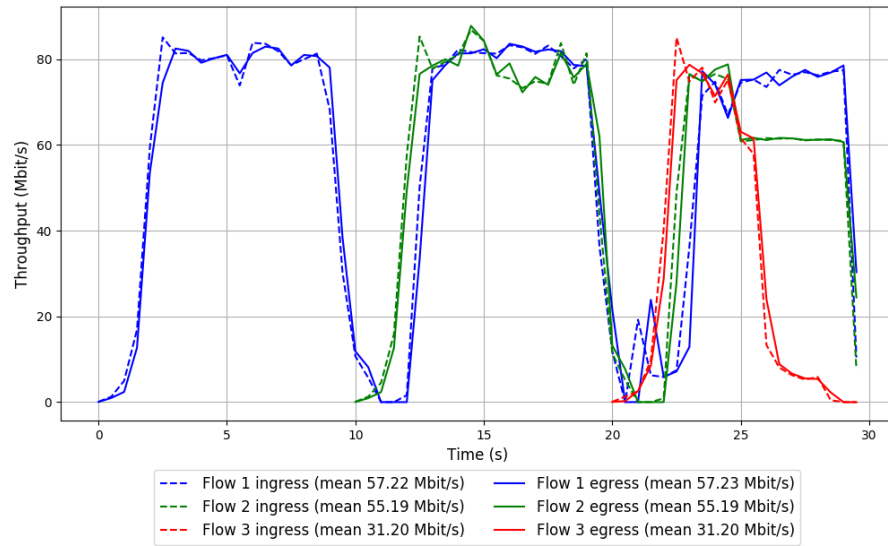
-- Flow 3:

Average throughput: 31.20 Mbit/s

95th percentile per-packet one-way delay: 136.884 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-17 09:04:27

End at: 2017-11-17 09:04:57

Below is generated by plot.py at 2017-11-17 11:55:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 109.04 Mbit/s

95th percentile per-packet one-way delay: 136.677 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.48 Mbit/s

95th percentile per-packet one-way delay: 136.711 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 55.29 Mbit/s

95th percentile per-packet one-way delay: 136.529 ms

Loss rate: 0.00%

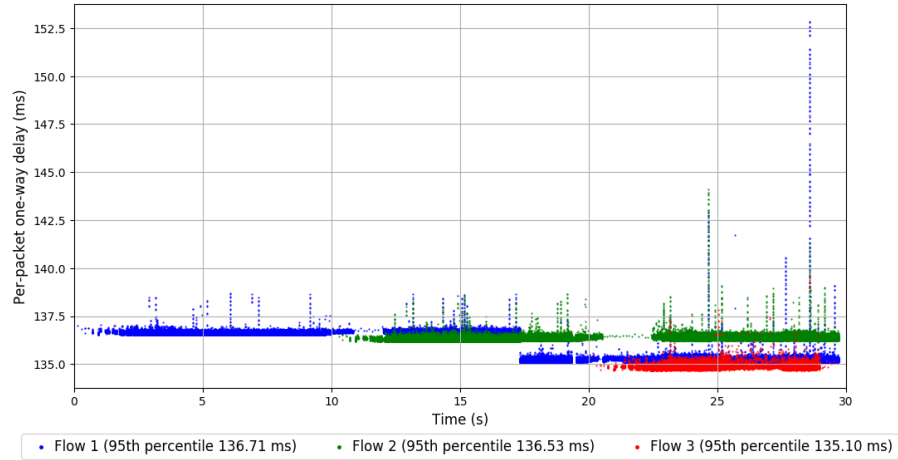
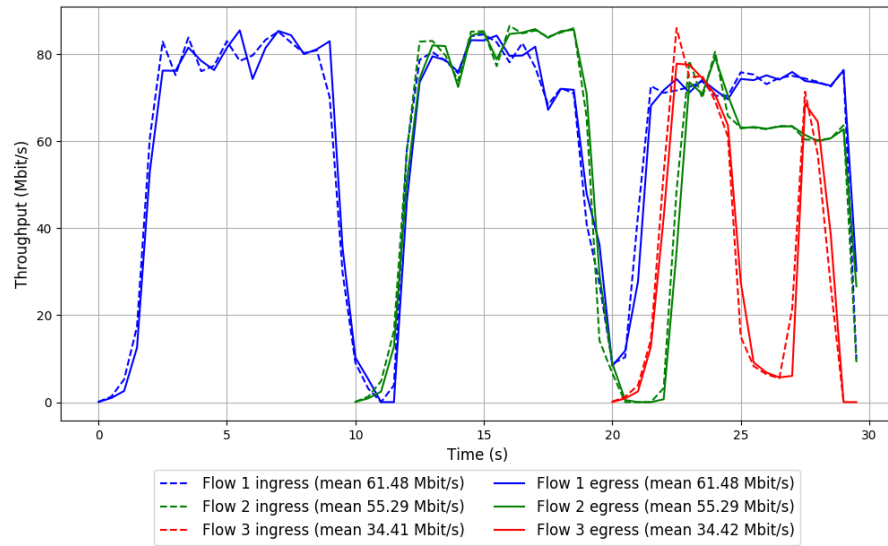
-- Flow 3:

Average throughput: 34.42 Mbit/s

95th percentile per-packet one-way delay: 135.104 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-17 09:18:13

End at: 2017-11-17 09:18:43

Below is generated by plot.py at 2017-11-17 11:55:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.88 Mbit/s

95th percentile per-packet one-way delay: 136.989 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 65.76 Mbit/s

95th percentile per-packet one-way delay: 136.991 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 6.56 Mbit/s

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

Loss rate: 0.01%

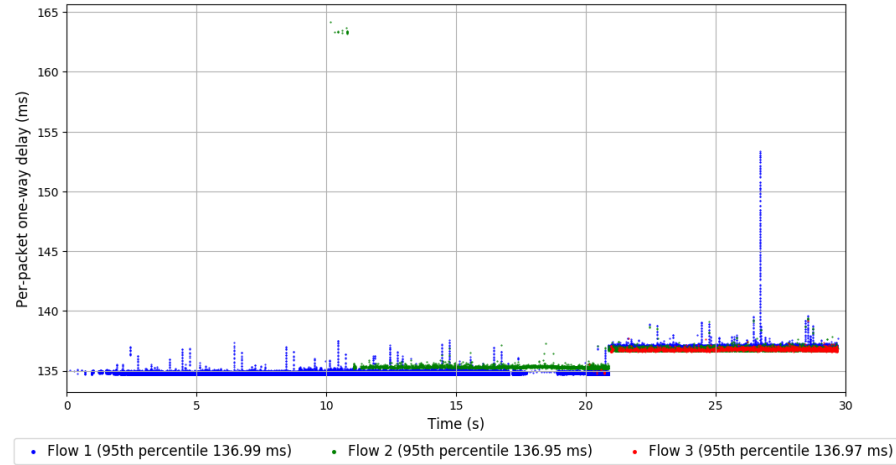
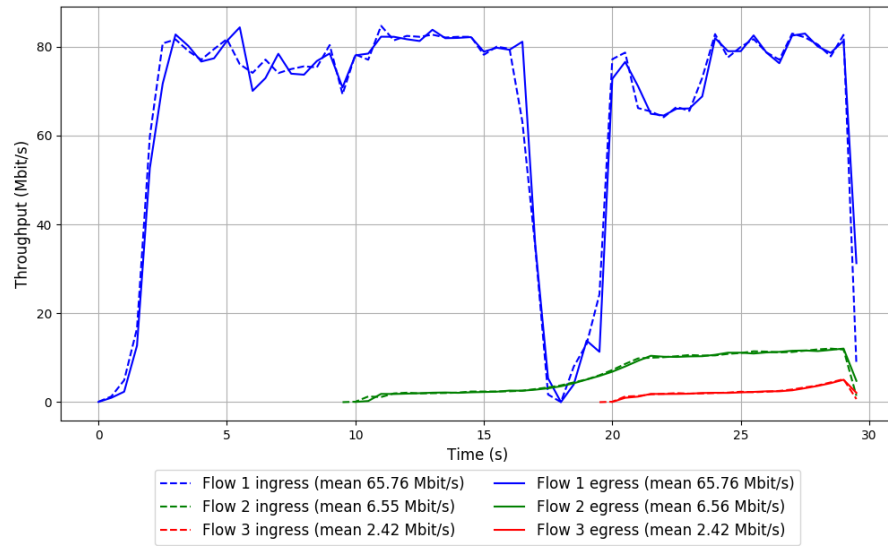
-- Flow 3:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 136.965 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-17 09:31:39

End at: 2017-11-17 09:32:09

Below is generated by plot.py at 2017-11-17 11:55:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 100.31 Mbit/s

95th percentile per-packet one-way delay: 136.390 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 47.25 Mbit/s

95th percentile per-packet one-way delay: 135.416 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 54.71 Mbit/s

95th percentile per-packet one-way delay: 136.481 ms

Loss rate: 0.00%

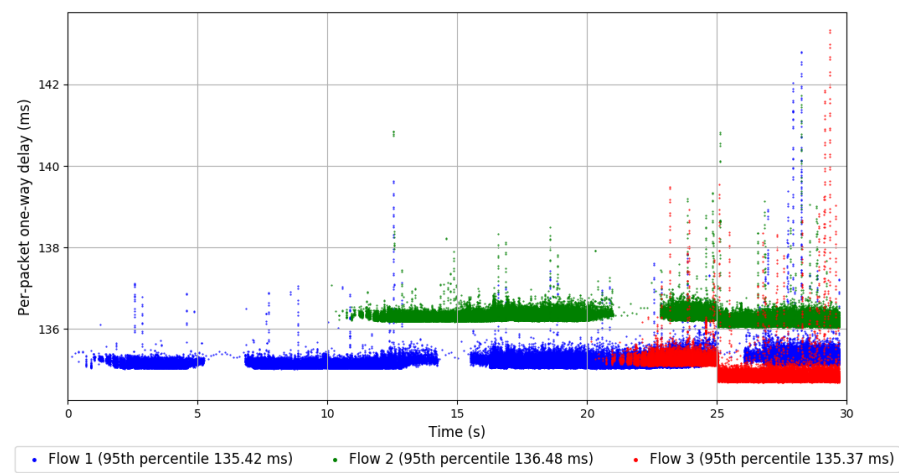
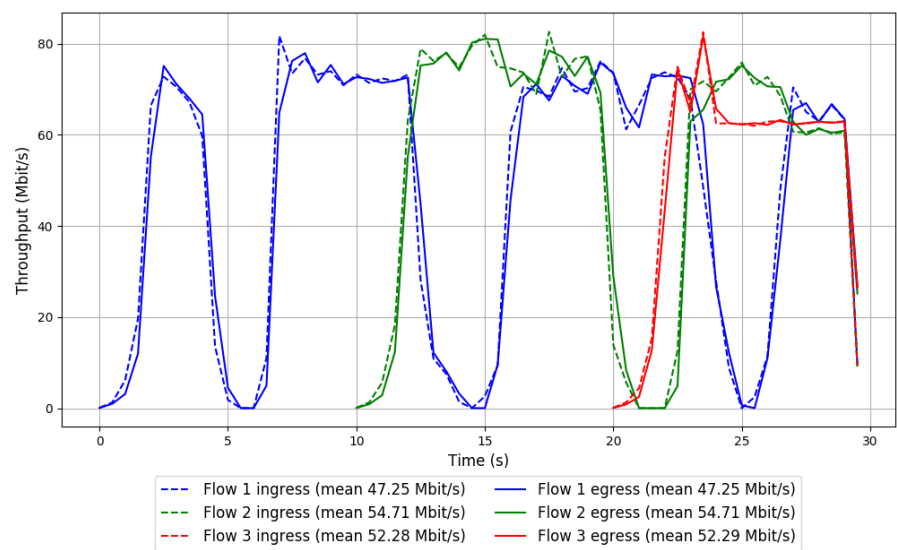
-- Flow 3:

Average throughput: 52.29 Mbit/s

95th percentile per-packet one-way delay: 135.372 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

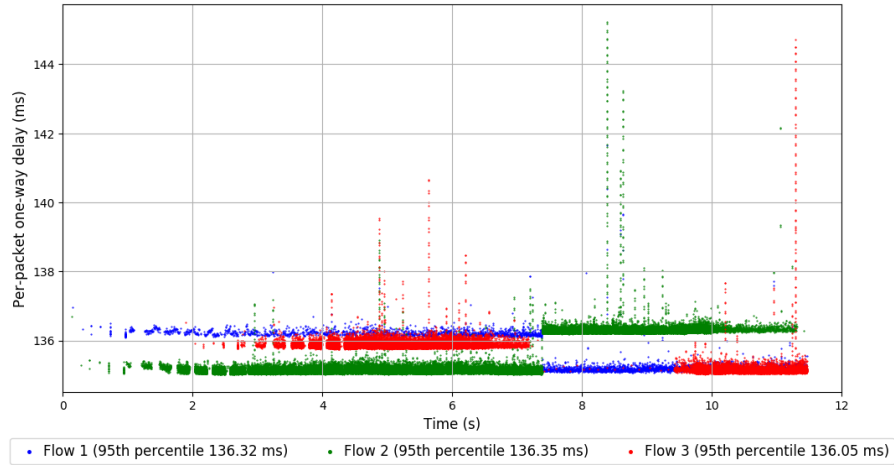
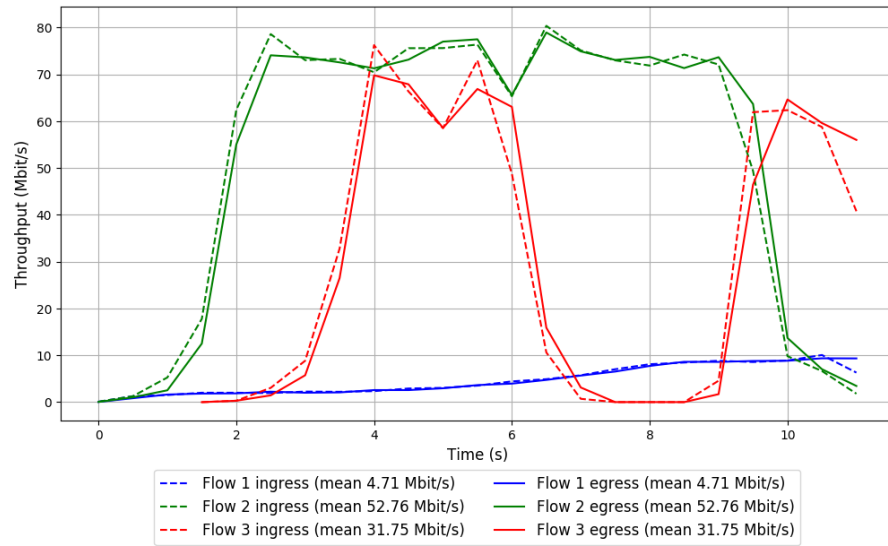


Run 6: Statistics of QUIC Cubic

Start at: 2017-11-17 09:45:49

End at: 2017-11-17 09:46:19

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-17 09:59:56

End at: 2017-11-17 10:00:26

Below is generated by plot.py at 2017-11-17 11:55:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.36 Mbit/s

95th percentile per-packet one-way delay: 136.418 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 9.85 Mbit/s

95th percentile per-packet one-way delay: 135.740 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 56.25 Mbit/s

95th percentile per-packet one-way delay: 136.440 ms

Loss rate: 0.00%

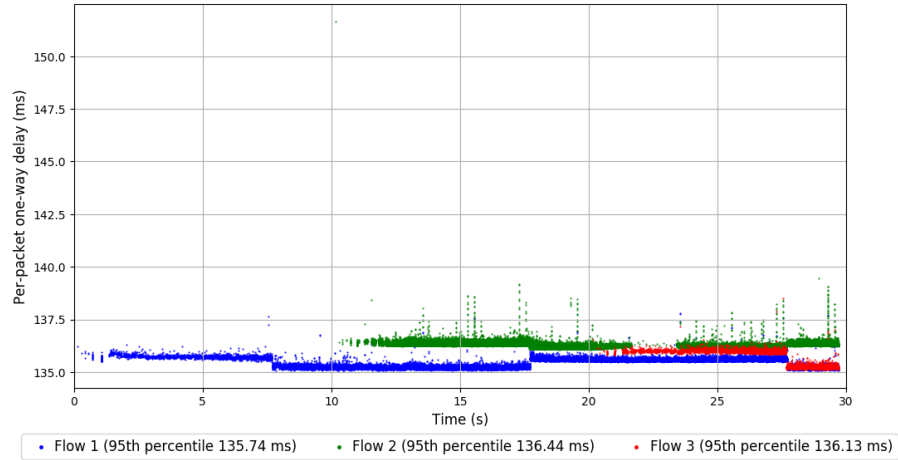
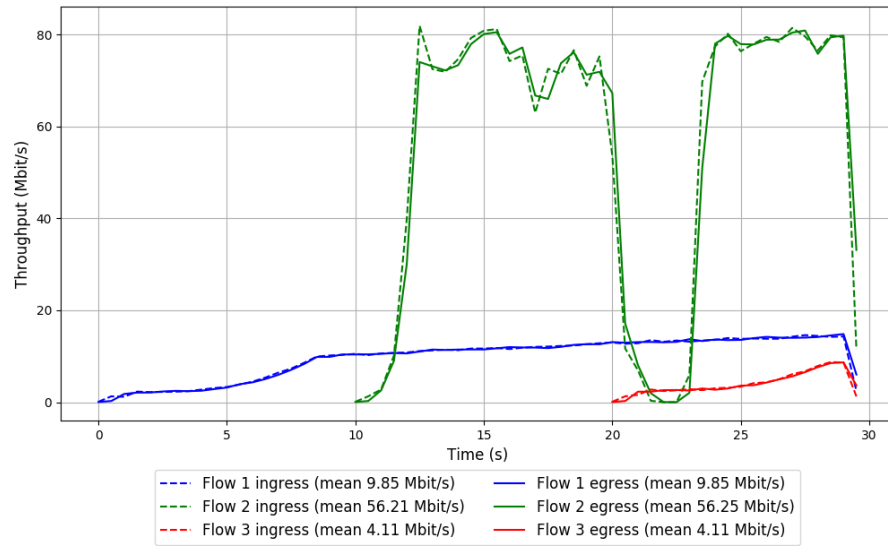
-- Flow 3:

Average throughput: 4.11 Mbit/s

95th percentile per-packet one-way delay: 136.135 ms

Loss rate: 0.03%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-17 10:13:52

End at: 2017-11-17 10:14:22

Below is generated by plot.py at 2017-11-17 11:55:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 107.15 Mbit/s

95th percentile per-packet one-way delay: 136.718 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.19 Mbit/s

95th percentile per-packet one-way delay: 136.699 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.27 Mbit/s

95th percentile per-packet one-way delay: 136.768 ms

Loss rate: 0.01%

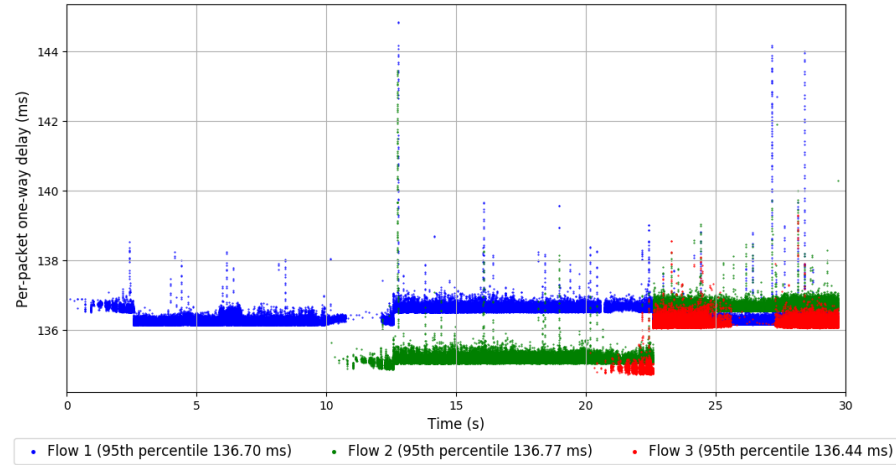
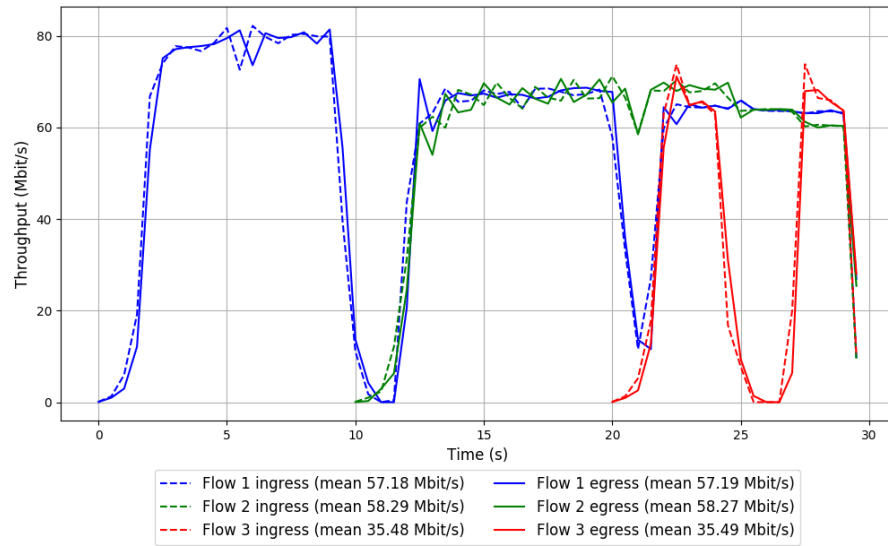
-- Flow 3:

Average throughput: 35.49 Mbit/s

95th percentile per-packet one-way delay: 136.435 ms

Loss rate: 0.01%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-17 10:27:12

End at: 2017-11-17 10:27:42

Below is generated by plot.py at 2017-11-17 11:55:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 115.69 Mbit/s

95th percentile per-packet one-way delay: 165.945 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 63.17 Mbit/s

95th percentile per-packet one-way delay: 165.984 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 55.87 Mbit/s

95th percentile per-packet one-way delay: 136.589 ms

Loss rate: 0.00%

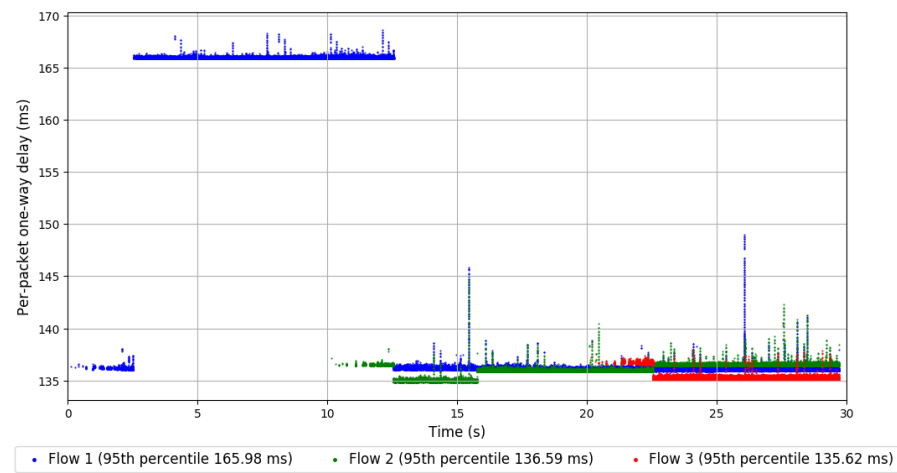
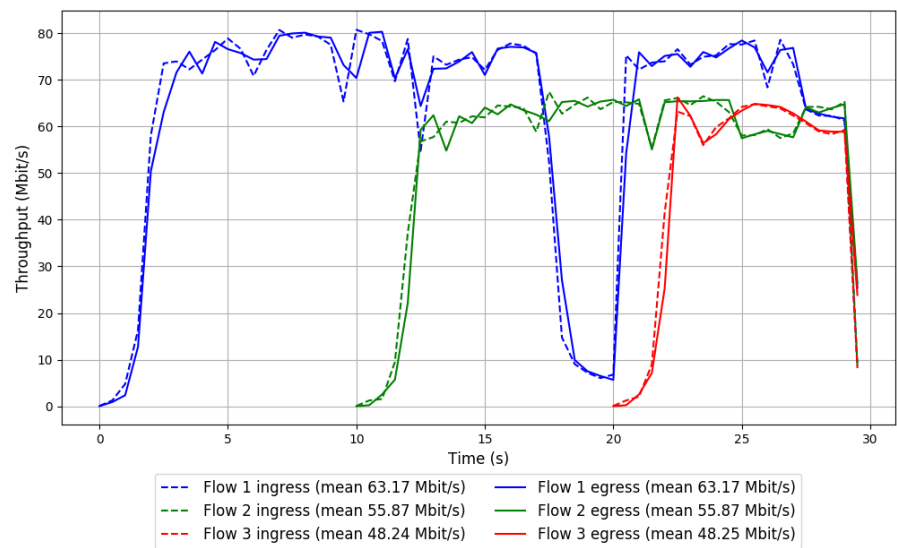
-- Flow 3:

Average throughput: 48.25 Mbit/s

95th percentile per-packet one-way delay: 135.617 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

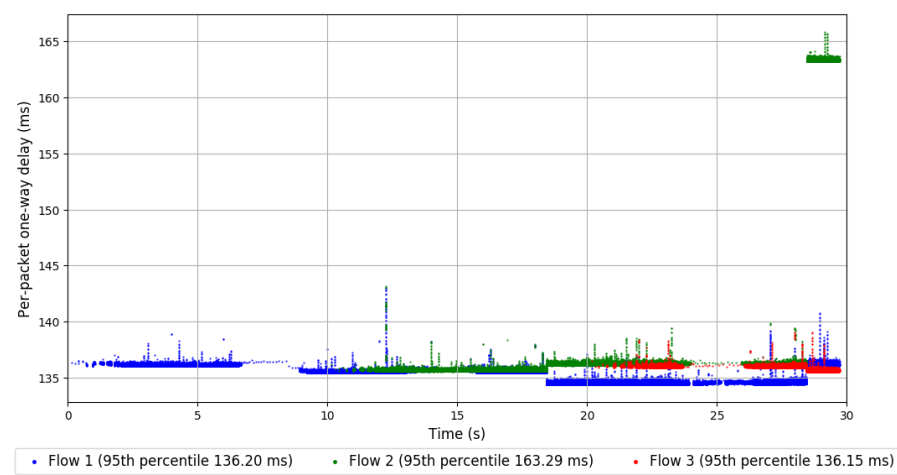
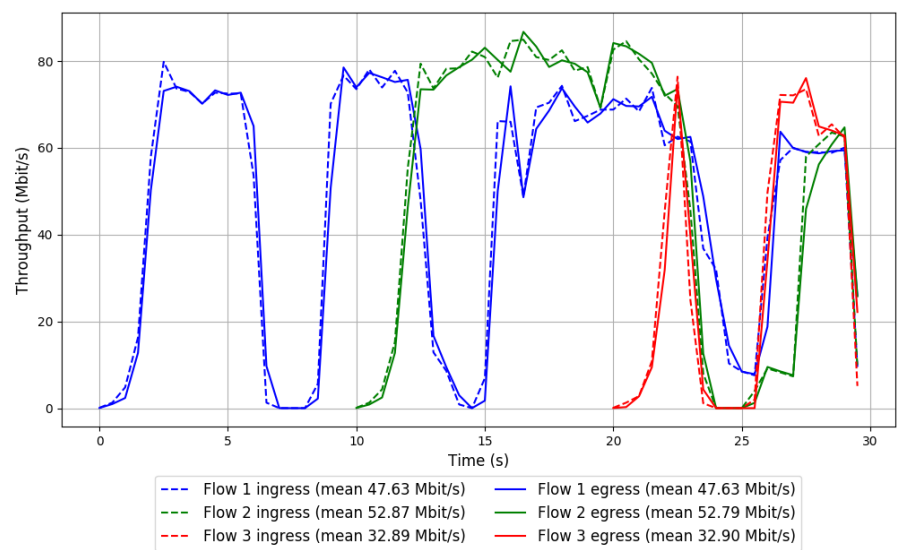


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-11-17 10:41:06
End at: 2017-11-17 10:41:36

# Below is generated by plot.py at 2017-11-17 11:55:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.15 Mbit/s
95th percentile per-packet one-way delay: 136.355 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 47.63 Mbit/s
95th percentile per-packet one-way delay: 136.203 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 52.79 Mbit/s
95th percentile per-packet one-way delay: 163.288 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 32.90 Mbit/s
95th percentile per-packet one-way delay: 136.150 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

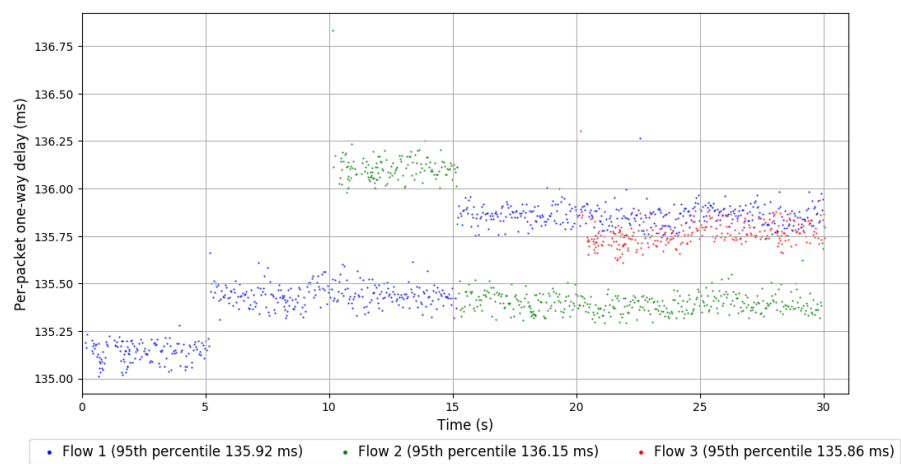
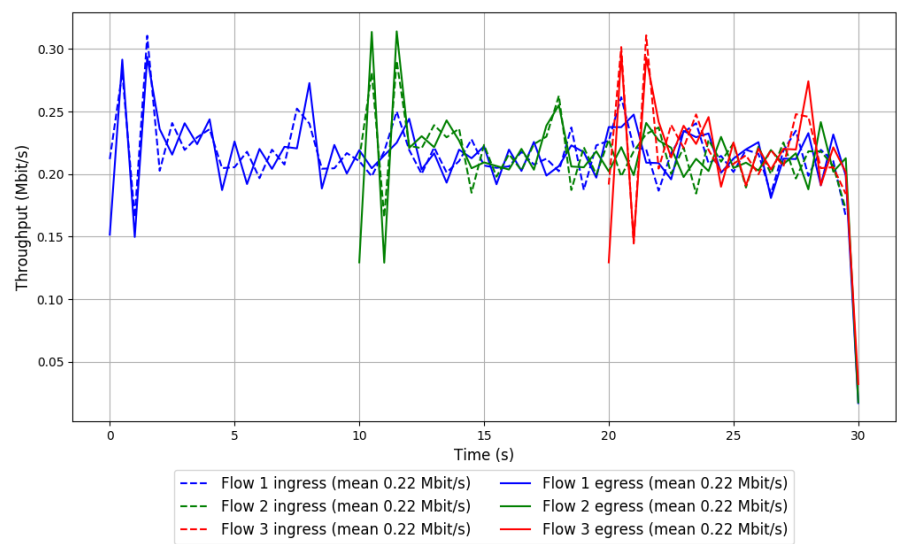


```
Run 1: Statistics of SCReAM

Start at: 2017-11-17 08:33:29
End at: 2017-11-17 08:33:59

# Below is generated by plot.py at 2017-11-17 11:55:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.099 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.919 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.154 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.863 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

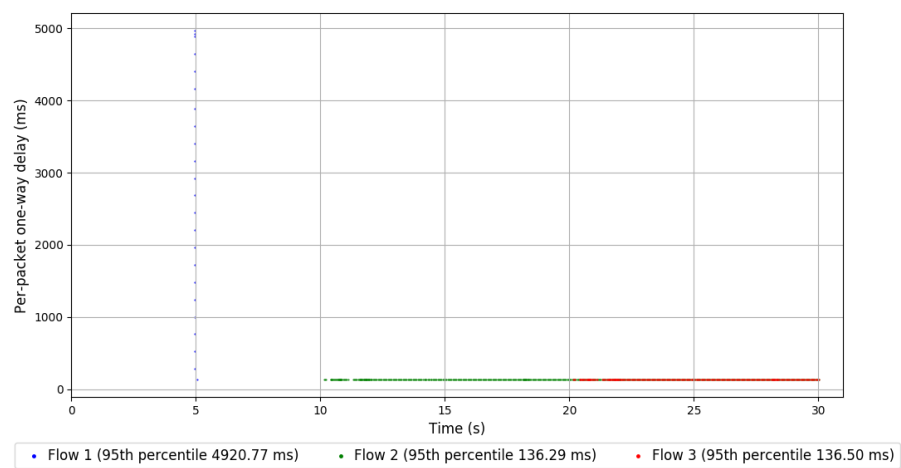
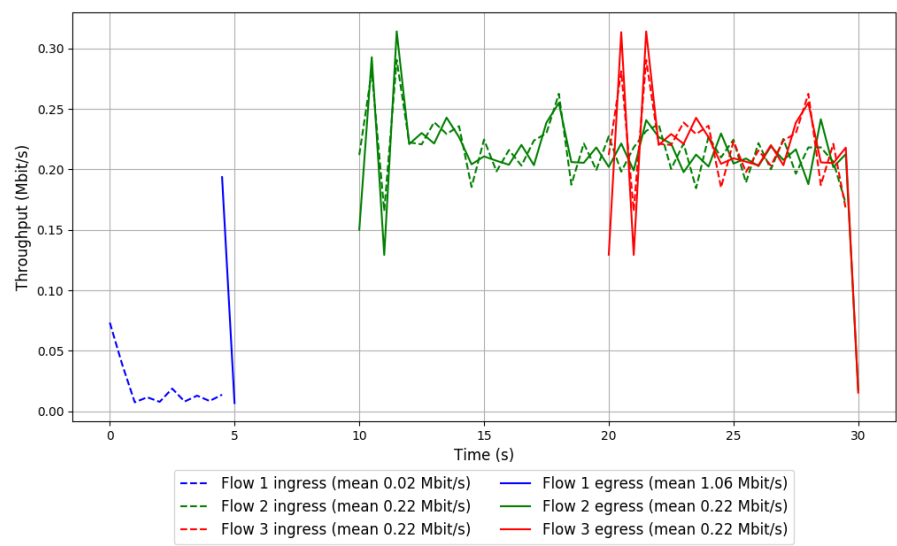


```
Run 2: Statistics of SReAM

Start at: 2017-11-17 08:47:33
End at: 2017-11-17 08:48:03

# Below is generated by plot.py at 2017-11-17 11:55:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 136.501 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.06 Mbit/s
95th percentile per-packet one-way delay: 4920.766 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.295 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.505 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2017-11-17 09:01:41

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

Below is generated by plot.py at 2017-11-17 11:55:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 136.816 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.713 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.855 ms

Loss rate: 0.00%

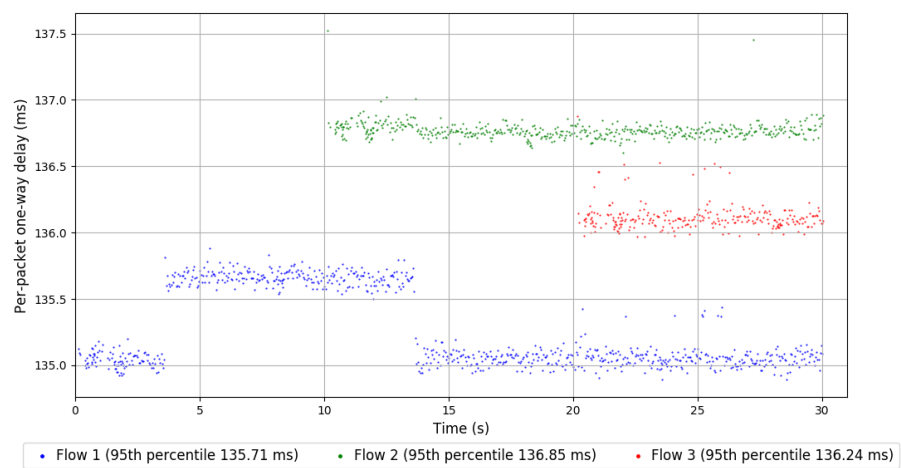
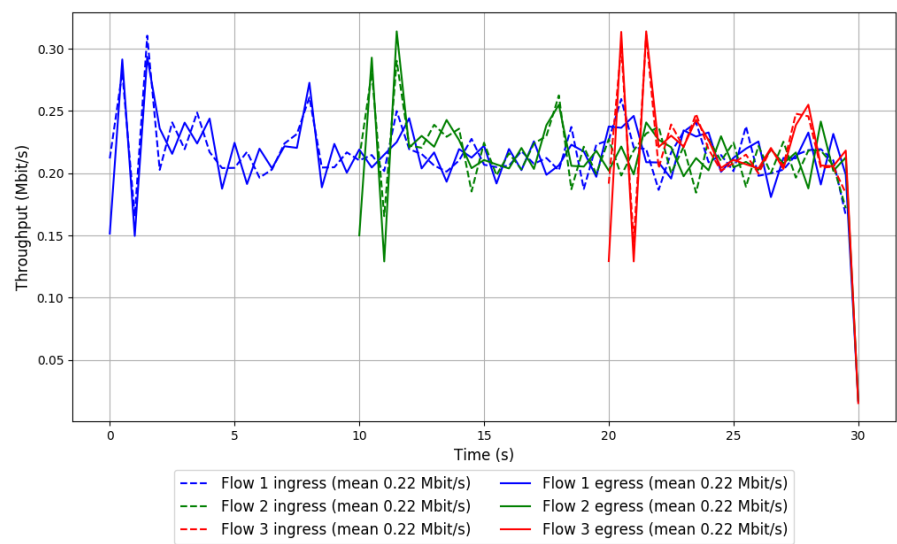
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.238 ms

Loss rate: 0.00%

Run 3: Report of SCRaM — Data Link

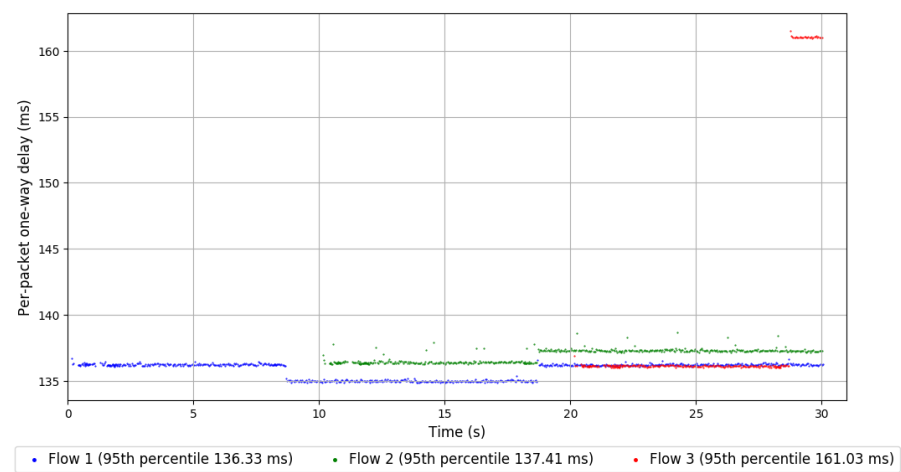
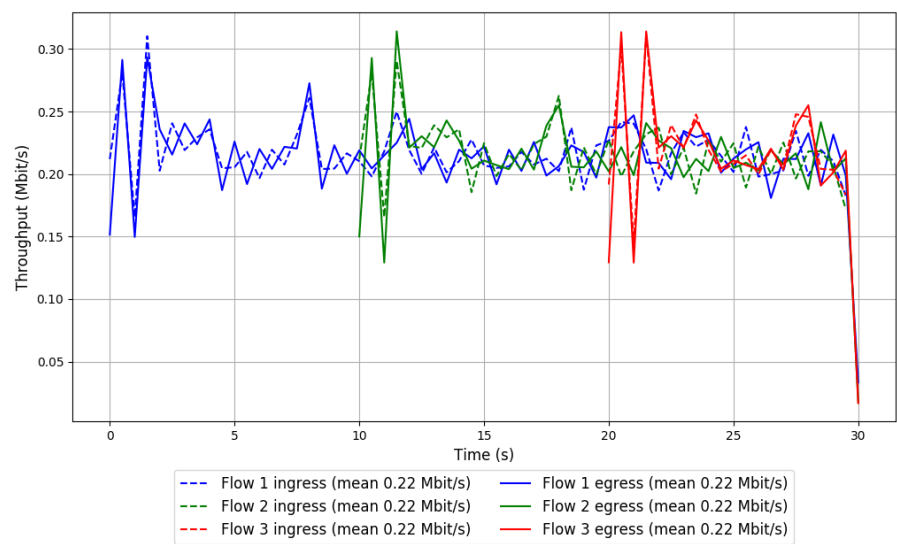


```
Run 4: Statistics of SCReAM

Start at: 2017-11-17 09:15:26
End at: 2017-11-17 09:15:56

# Below is generated by plot.py at 2017-11-17 11:55:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.373 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.333 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.414 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 161.027 ms
Loss rate: 0.35%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-11-17 09:28:51

End at: 2017-11-17 09:29:21

Below is generated by plot.py at 2017-11-17 11:55:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 161.265 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.560 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 161.307 ms

Loss rate: 0.00%

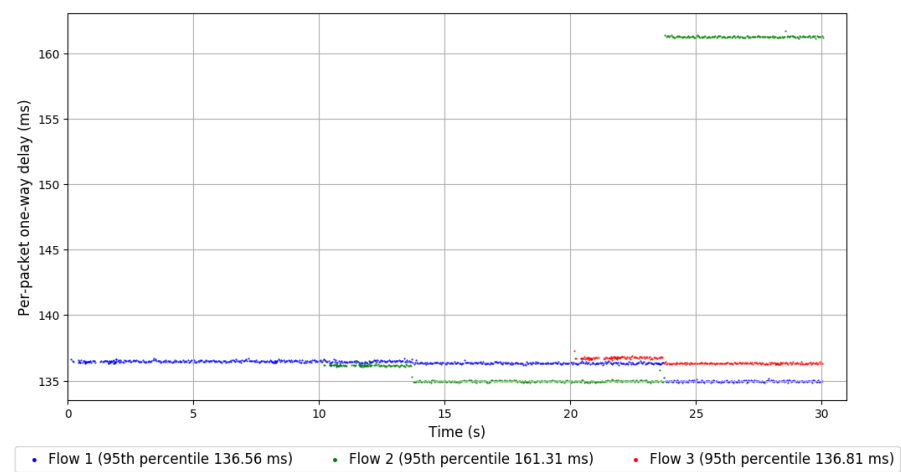
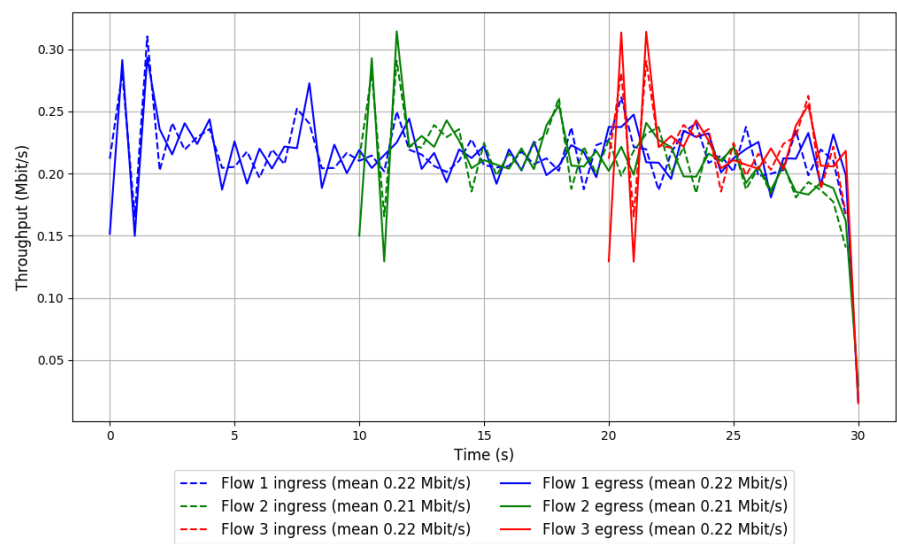
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.812 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

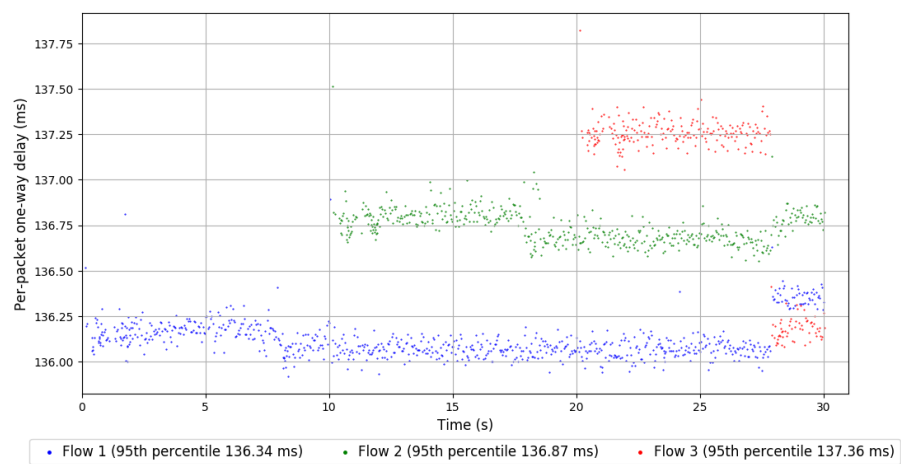
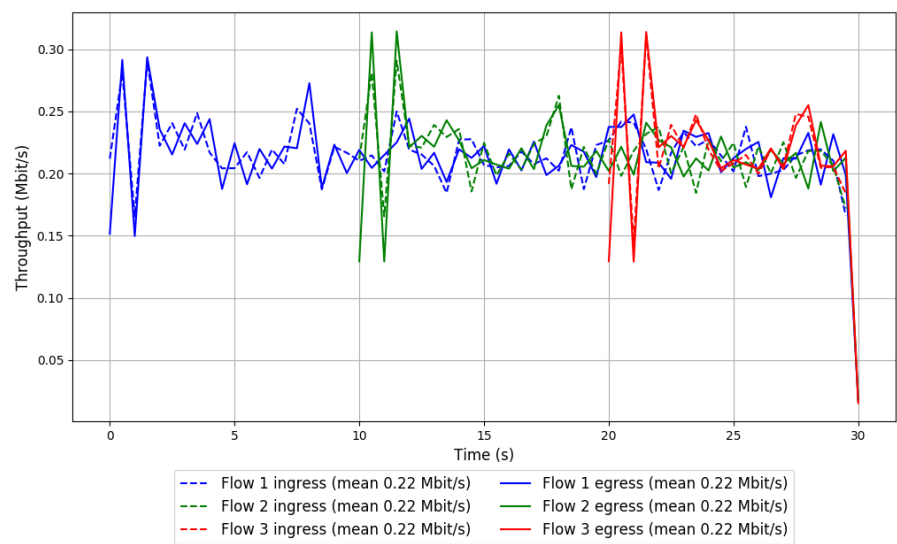


```
Run 6: Statistics of SCReAM

Start at: 2017-11-17 09:42:47
End at: 2017-11-17 09:43:17

# Below is generated by plot.py at 2017-11-17 11:55:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.270 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.339 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.870 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.356 ms
Loss rate: 0.00%
```

Run 6: Report of SReAM — Data Link

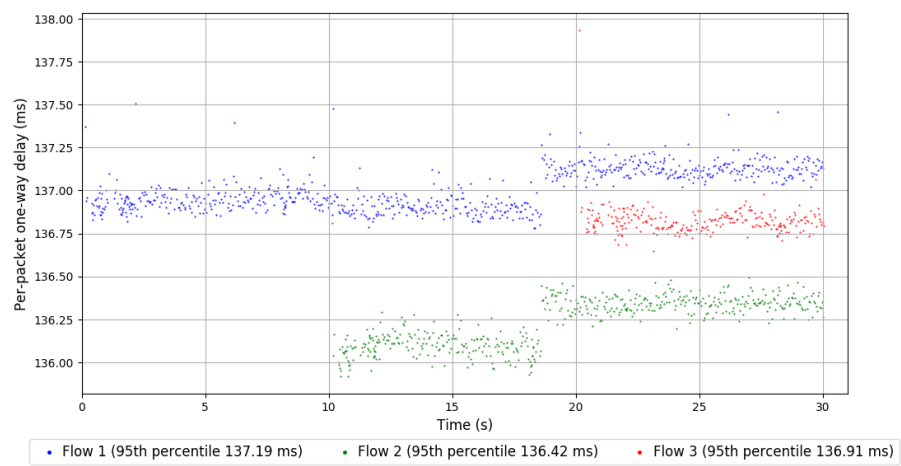
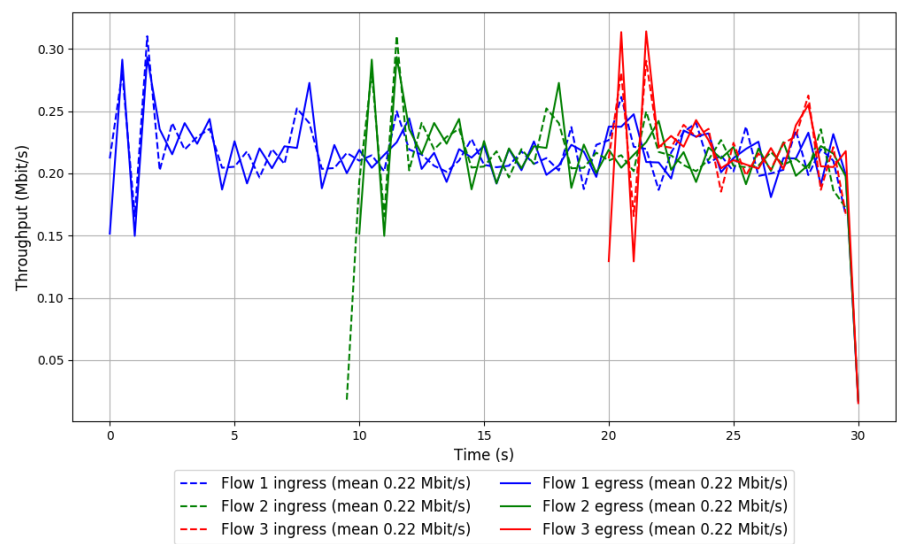


```
Run 7: Statistics of SReAM

Start at: 2017-11-17 09:57:06
End at: 2017-11-17 09:57:36

# Below is generated by plot.py at 2017-11-17 11:55:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.163 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.187 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.417 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.906 ms
Loss rate: 0.00%
```


Run 7: Report of SReAM — Data Link

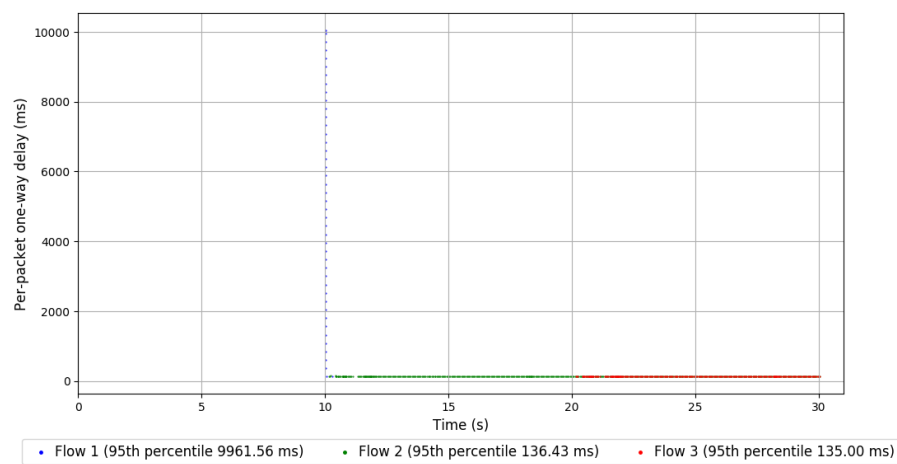
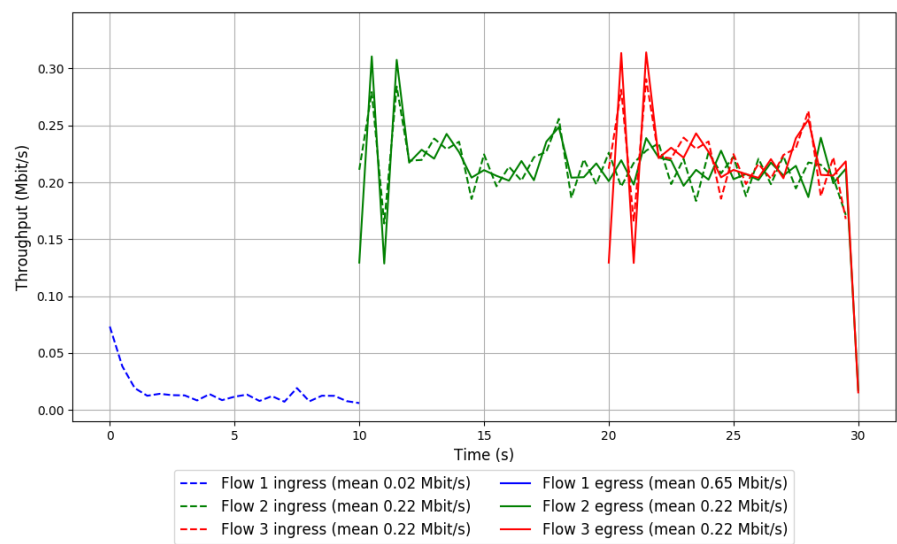


Run 8: Statistics of SReAM

Start at: 2017-11-17 10:11:00

End at: 2017-11-17 10:11:30

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-11-17 10:24:31

End at: 2017-11-17 10:25:01

Below is generated by plot.py at 2017-11-17 11:55:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 137.004 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 137.023 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

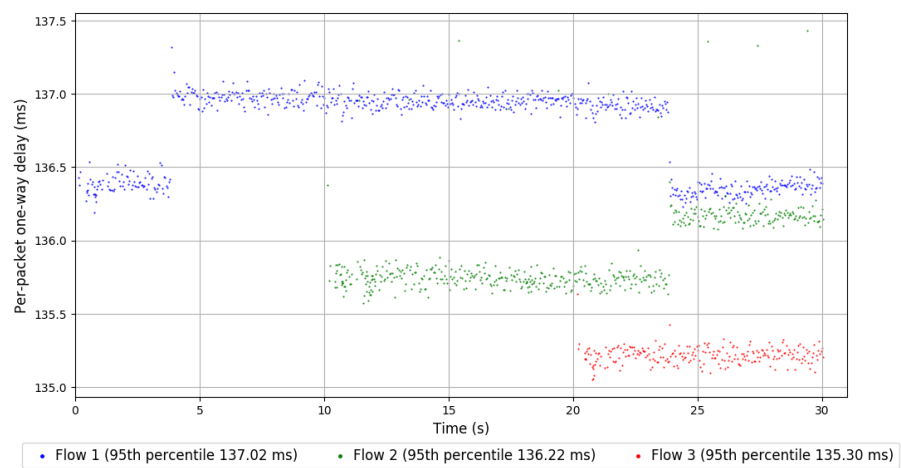
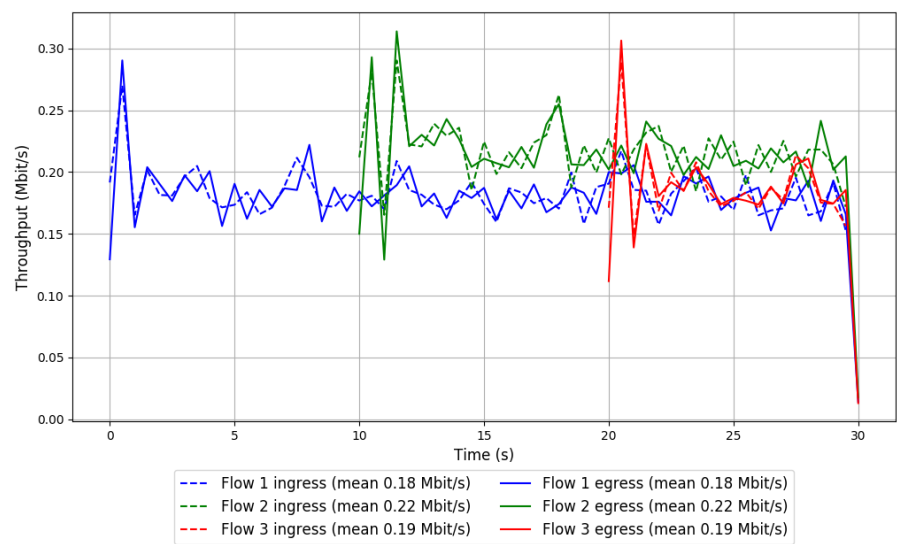
-- Flow 3:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 135.297 ms

Loss rate: 0.00%

Run 9: Report of SCRaM — Data Link

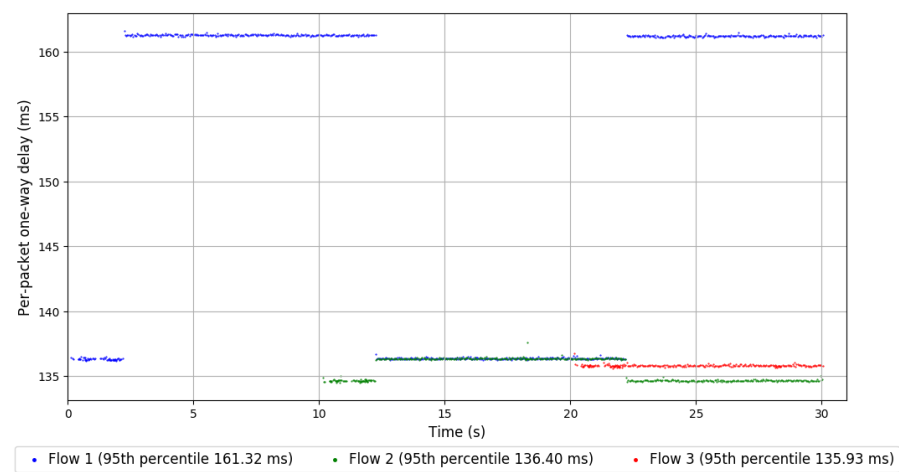
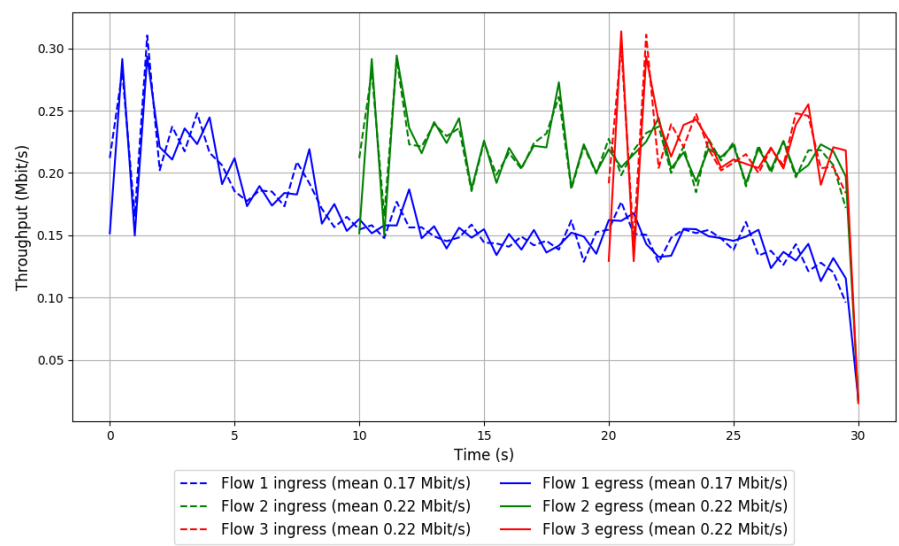


```
Run 10: Statistics of SReAM

Start at: 2017-11-17 10:38:22
End at: 2017-11-17 10:38:52

# Below is generated by plot.py at 2017-11-17 11:55:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 161.288 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 161.321 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.404 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.925 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link

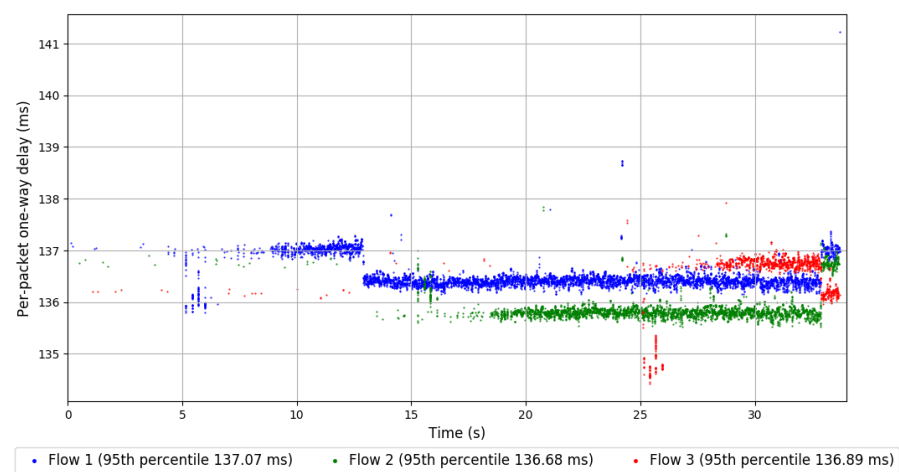
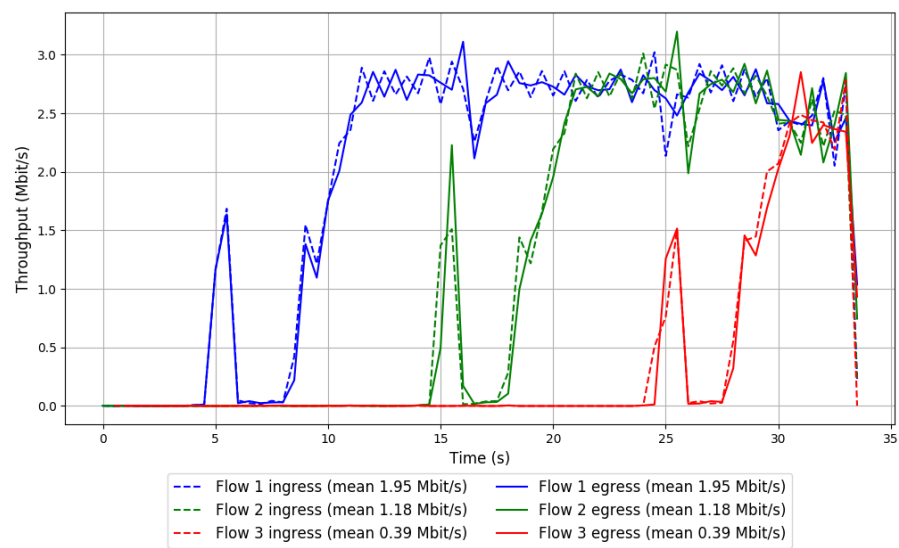


```
Run 1: Statistics of WebRTC media

Start at: 2017-11-17 08:27:15
End at: 2017-11-17 08:27:45

# Below is generated by plot.py at 2017-11-17 11:55:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.50 Mbit/s
95th percentile per-packet one-way delay: 137.025 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 137.067 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 1.18 Mbit/s
95th percentile per-packet one-way delay: 136.683 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 136.886 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-11-17 08:41:24

End at: 2017-11-17 08:41:54

Below is generated by plot.py at 2017-11-17 11:55:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.34 Mbit/s

95th percentile per-packet one-way delay: 136.897 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 135.632 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.01 Mbit/s

95th percentile per-packet one-way delay: 137.055 ms

Loss rate: 0.00%

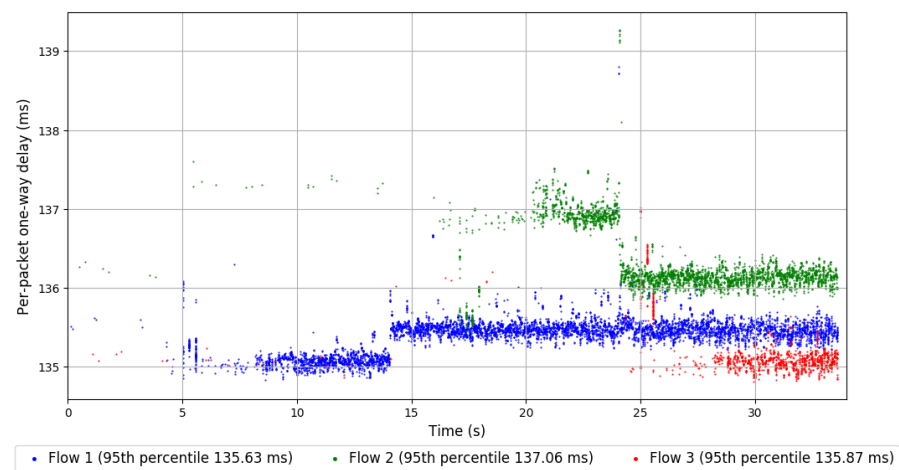
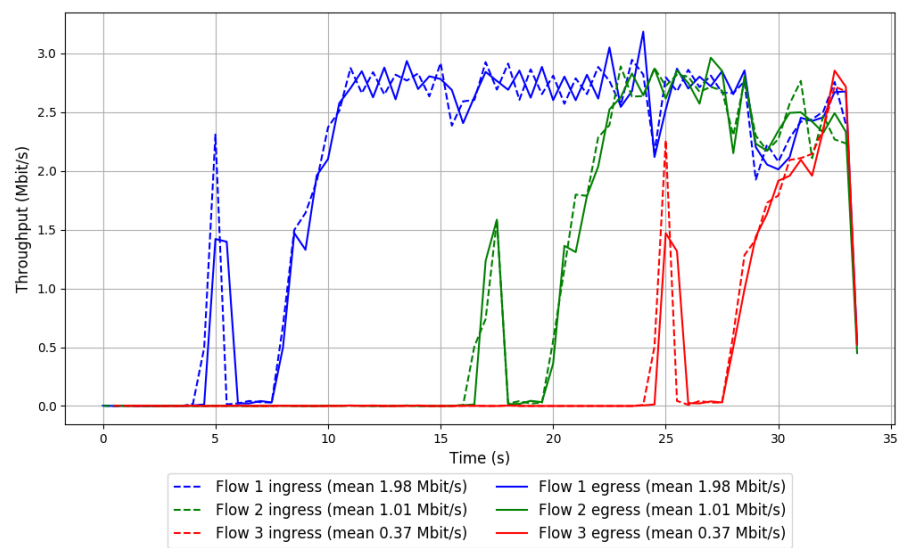
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 135.872 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-17 08:55:34

End at: 2017-11-17 08:56:04

Below is generated by plot.py at 2017-11-17 11:55:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.52 Mbit/s

95th percentile per-packet one-way delay: 136.348 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 136.211 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 136.409 ms

Loss rate: 0.00%

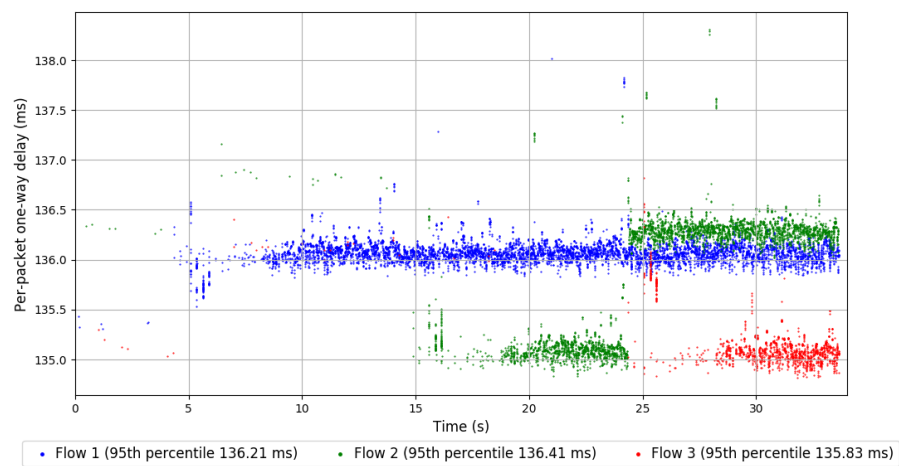
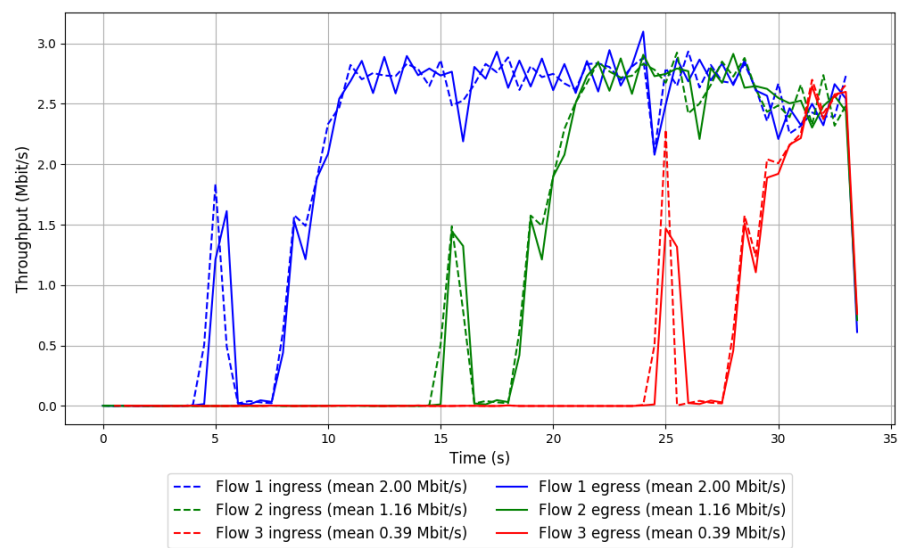
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 135.829 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-17 09:09:35

End at: 2017-11-17 09:10:05

Below is generated by plot.py at 2017-11-17 11:55:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.33 Mbit/s

95th percentile per-packet one-way delay: 136.852 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 135.837 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.99 Mbit/s

95th percentile per-packet one-way delay: 137.012 ms

Loss rate: 0.00%

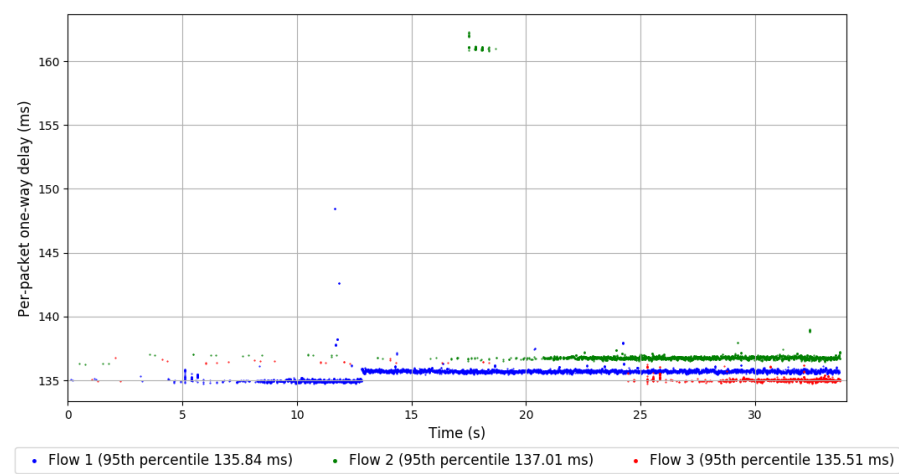
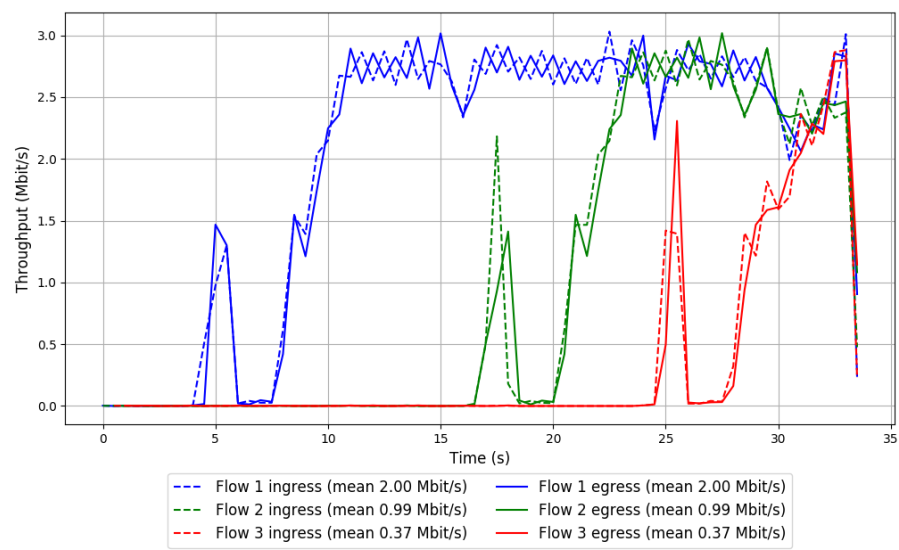
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 135.513 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-17 09:23:19

End at: 2017-11-17 09:23:49

Below is generated by plot.py at 2017-11-17 11:55:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.35 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 136.488 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.04 Mbit/s

95th percentile per-packet one-way delay: 137.350 ms

Loss rate: 0.00%

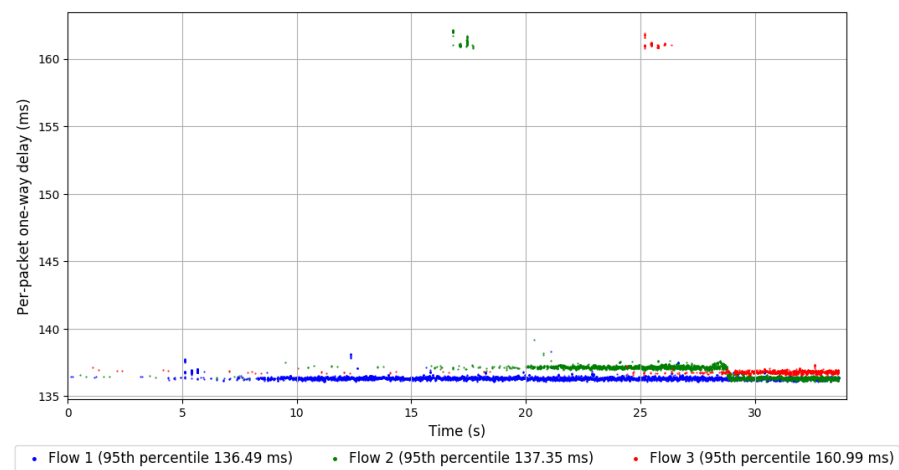
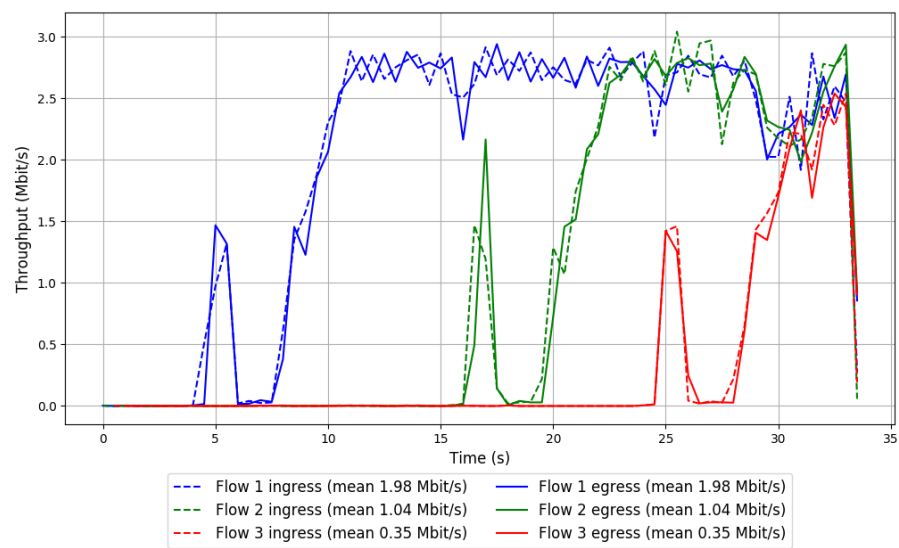
-- Flow 3:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 160.986 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-17 09:36:43

End at: 2017-11-17 09:37:13

Below is generated by plot.py at 2017-11-17 11:55:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.54 Mbit/s

95th percentile per-packet one-way delay: 136.644 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.01 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.18 Mbit/s

95th percentile per-packet one-way delay: 163.098 ms

Loss rate: 0.00%

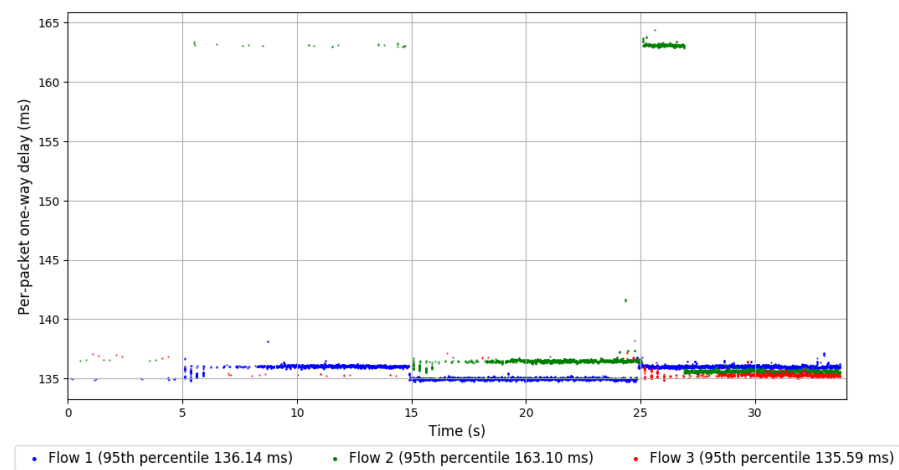
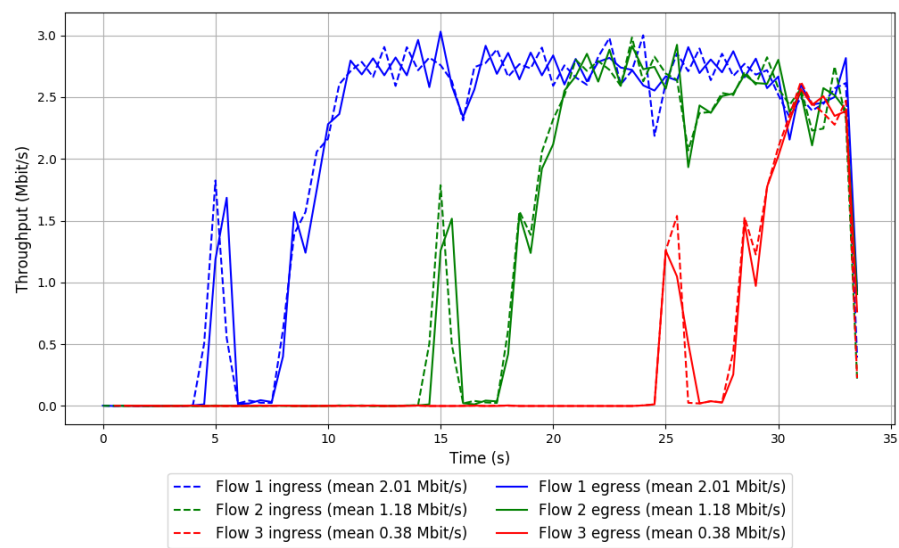
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 135.594 ms

Loss rate: 0.08%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-17 09:50:48

End at: 2017-11-17 09:51:18

Below is generated by plot.py at 2017-11-17 11:55:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.61 Mbit/s

95th percentile per-packet one-way delay: 136.630 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.03 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 136.882 ms

Loss rate: 0.02%

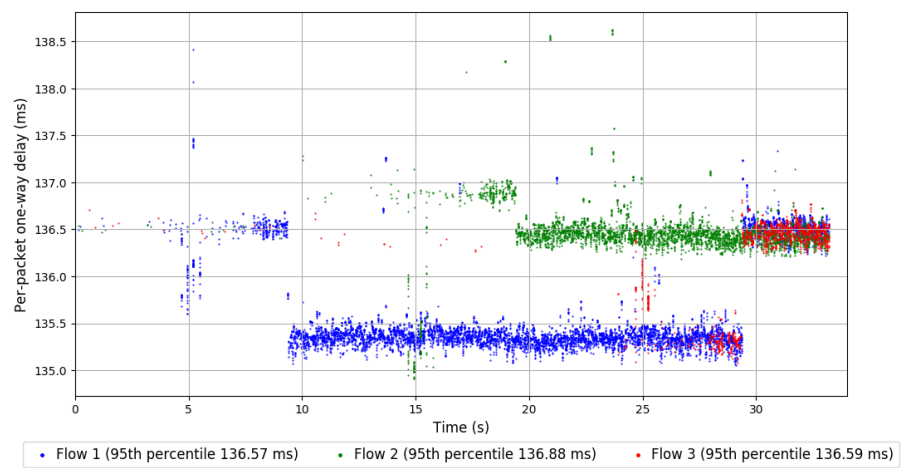
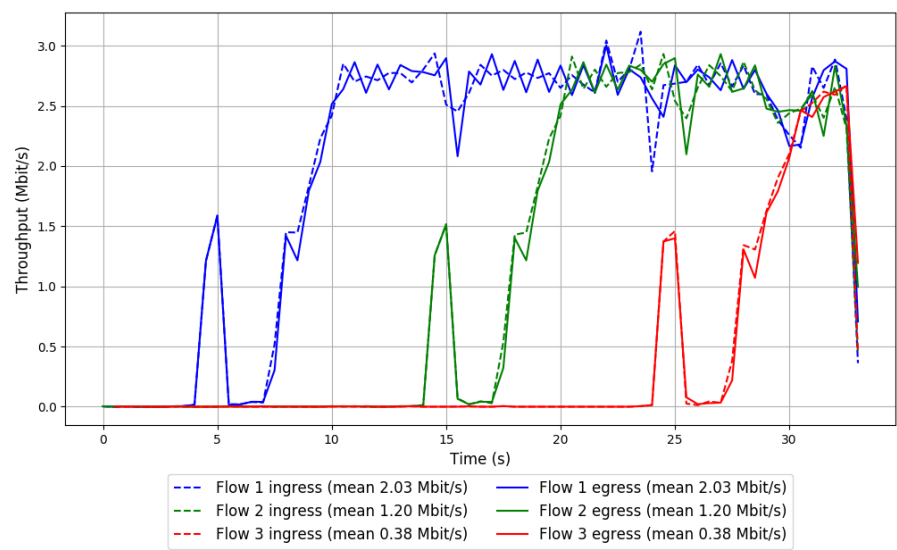
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.586 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-17 10:04:55

End at: 2017-11-17 10:05:25

Below is generated by plot.py at 2017-11-17 11:55:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.52 Mbit/s

95th percentile per-packet one-way delay: 137.083 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 136.937 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.19 Mbit/s

95th percentile per-packet one-way delay: 137.148 ms

Loss rate: 0.00%

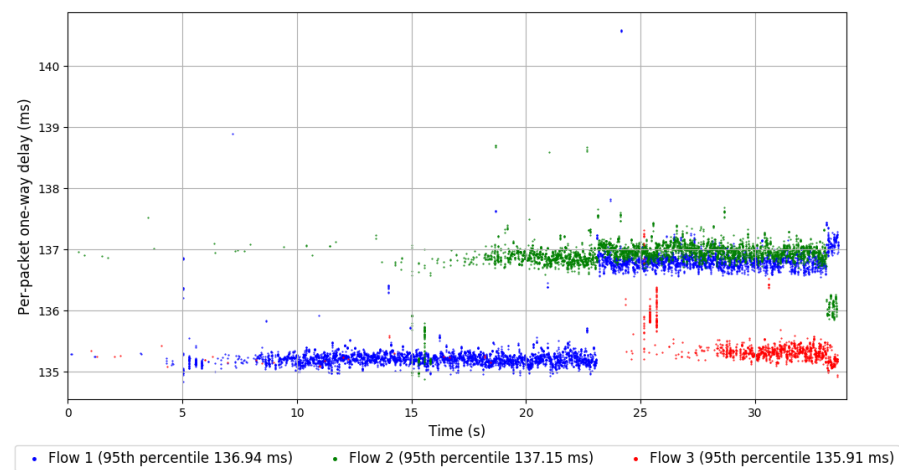
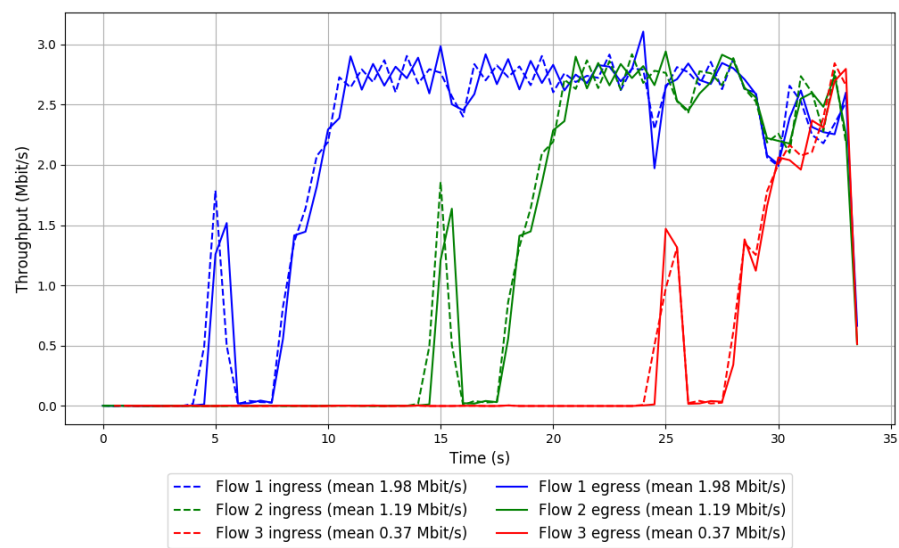
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 135.914 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-17 10:18:53

End at: 2017-11-17 10:19:23

Below is generated by plot.py at 2017-11-17 11:55:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.50 Mbit/s

95th percentile per-packet one-way delay: 136.959 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 136.556 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.19 Mbit/s

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

Loss rate: 0.00%

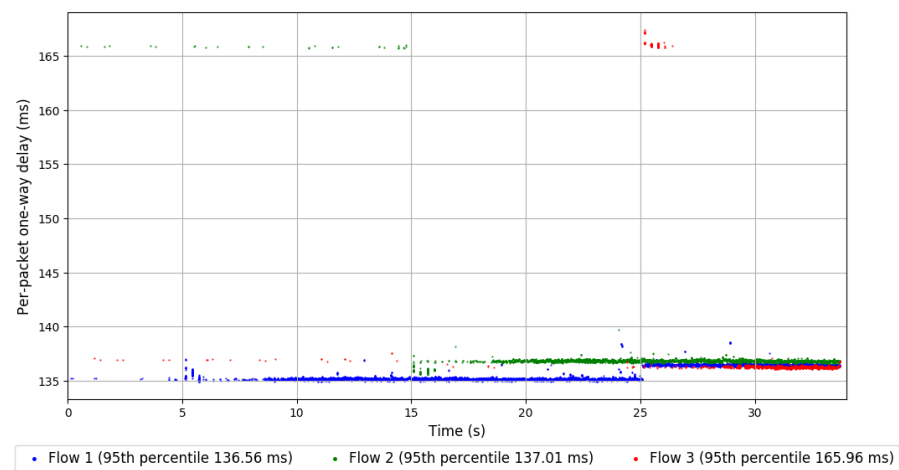
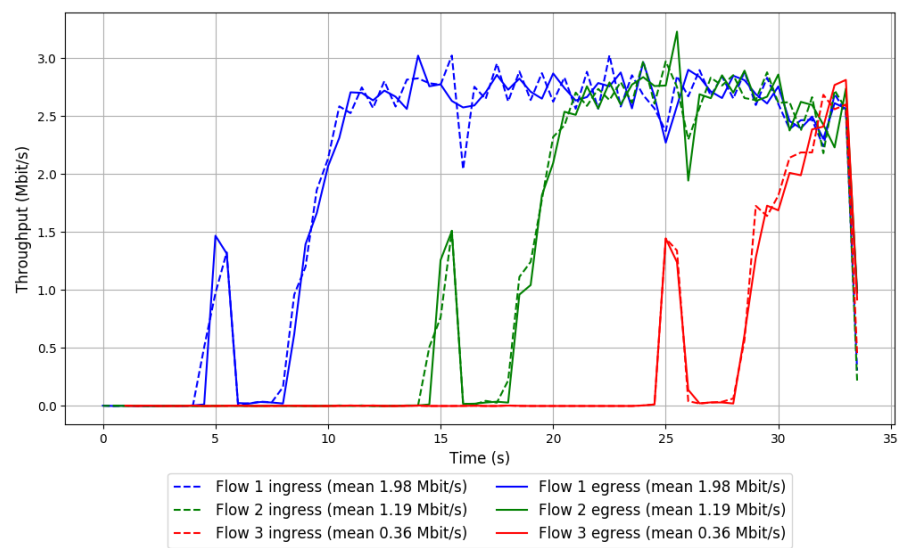
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 165.957 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-17 10:32:16

End at: 2017-11-17 10:32:46

Below is generated by plot.py at 2017-11-17 11:55:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.39 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 136.995 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.12 Mbit/s

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

Loss rate: 0.00%

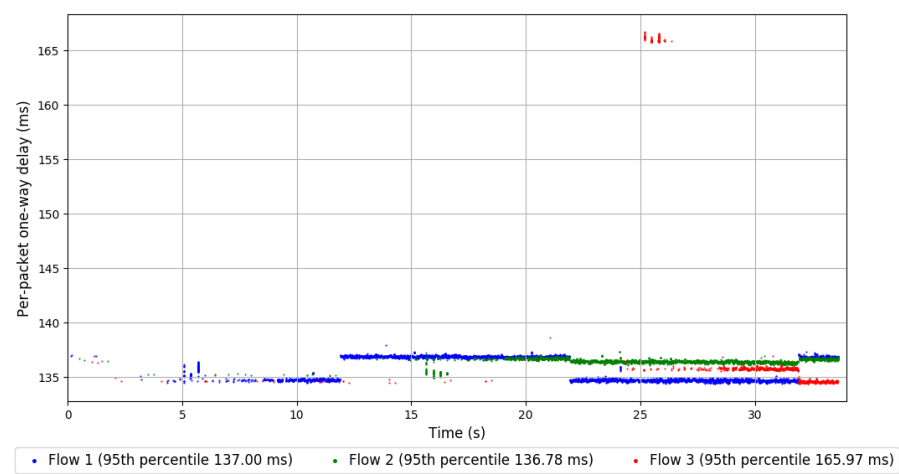
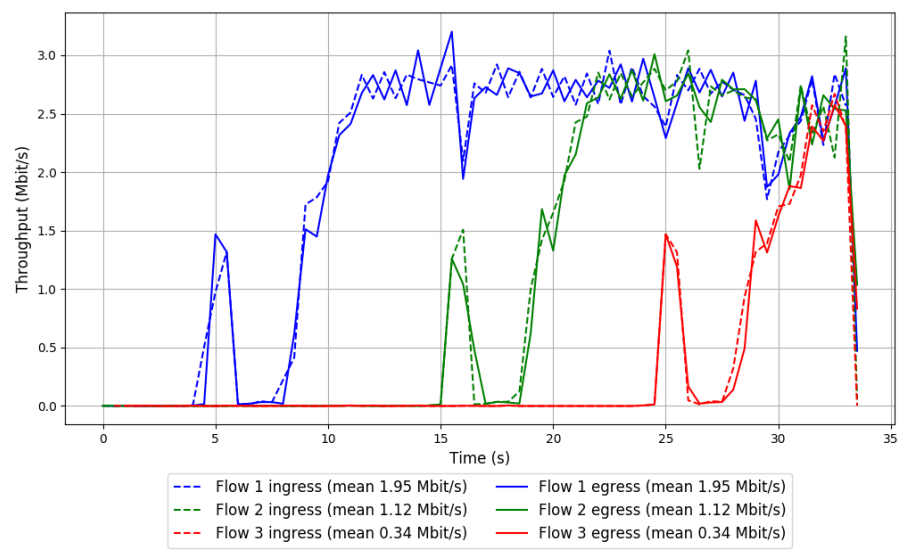
-- Flow 3:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 165.972 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

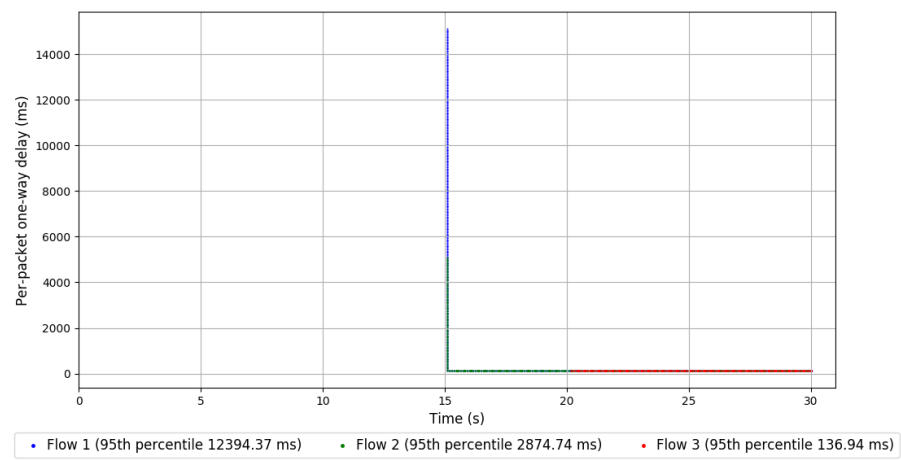
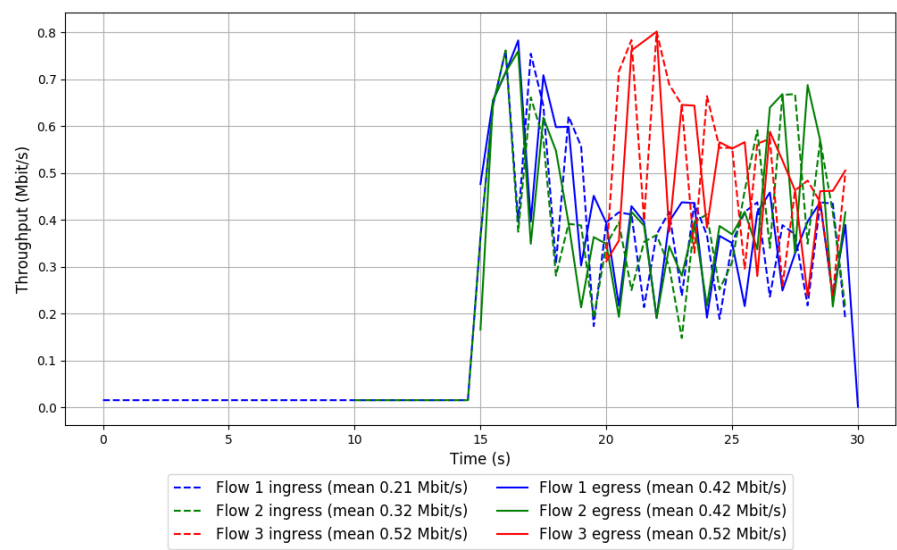


Run 1: Statistics of Sprout

Start at: 2017-11-17 08:24:19

End at: 2017-11-17 08:24:49

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-11-17 08:38:28

End at: 2017-11-17 08:38:58

Below is generated by plot.py at 2017-11-17 11:55:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.84 Mbit/s

95th percentile per-packet one-way delay: 136.278 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.349 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 135.850 ms

Loss rate: 0.00%

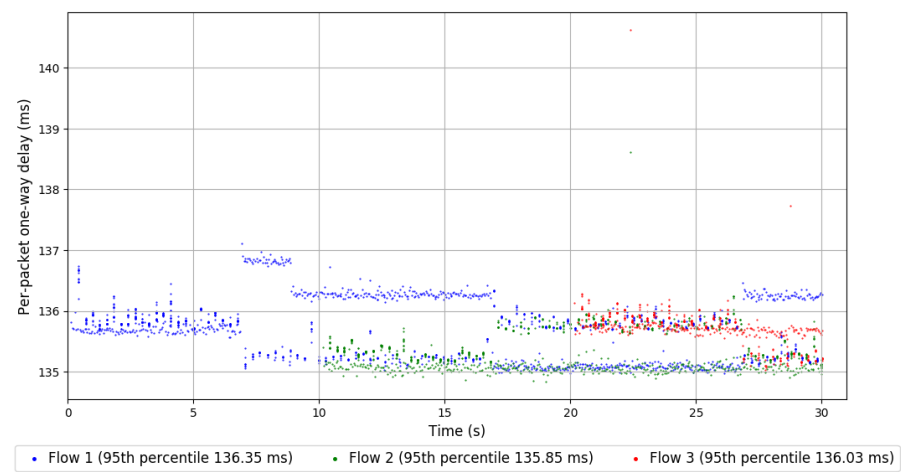
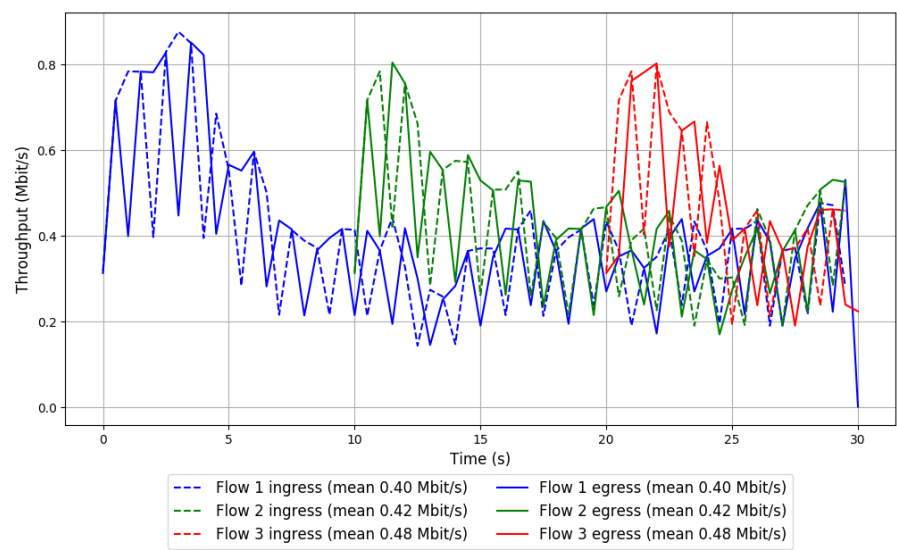
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 136.033 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-11-17 08:52:36

End at: 2017-11-17 08:53:06

Below is generated by plot.py at 2017-11-17 11:55:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.79 Mbit/s

95th percentile per-packet one-way delay: 136.223 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 136.207 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 136.031 ms

Loss rate: 0.00%

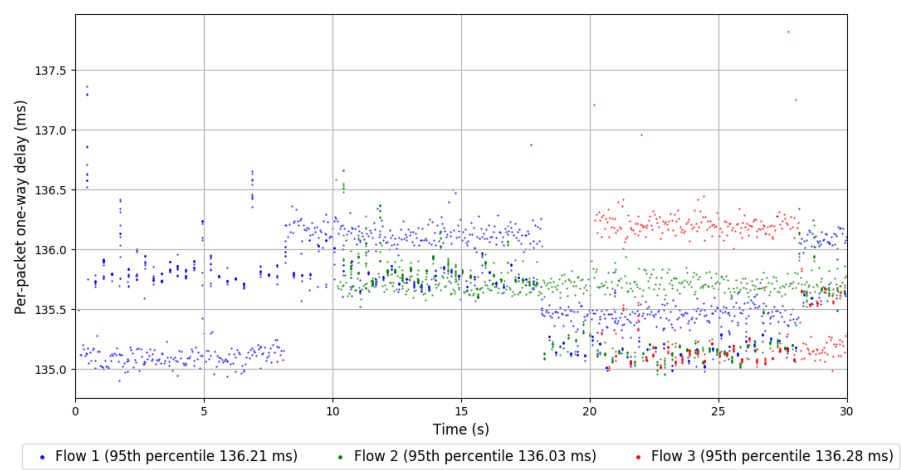
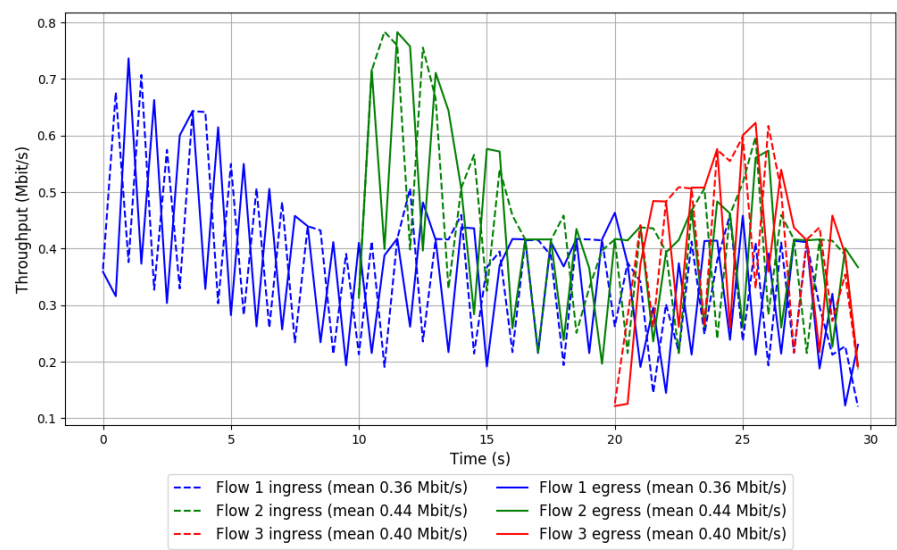
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.281 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-17 09:06:41

End at: 2017-11-17 09:07:11

Below is generated by plot.py at 2017-11-17 11:55:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.94 Mbit/s

95th percentile per-packet one-way delay: 136.892 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.911 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 136.875 ms

Loss rate: 0.00%

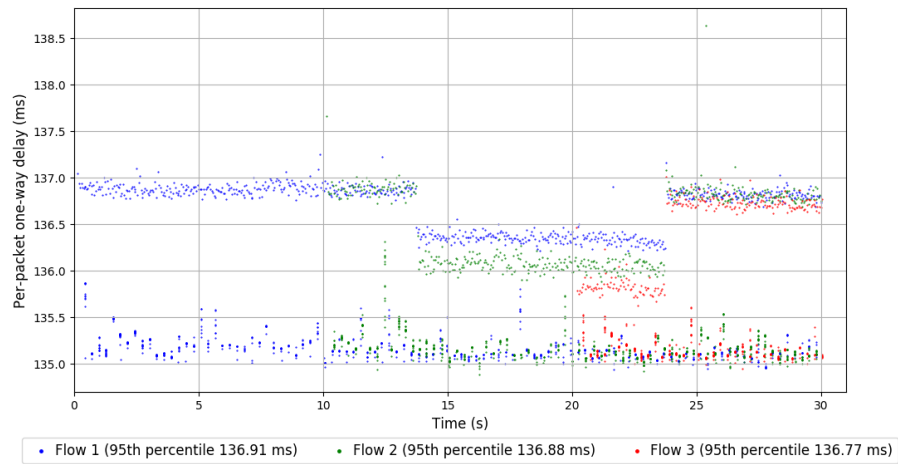
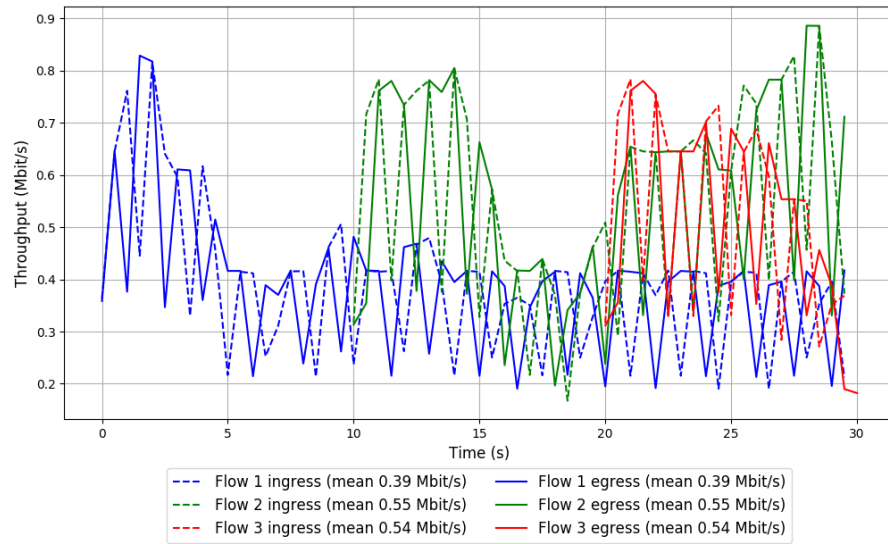
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 136.767 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-17 09:20:23

End at: 2017-11-17 09:20:53

Below is generated by plot.py at 2017-11-17 11:55:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 163.243 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 163.294 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 161.454 ms

Loss rate: 0.00%

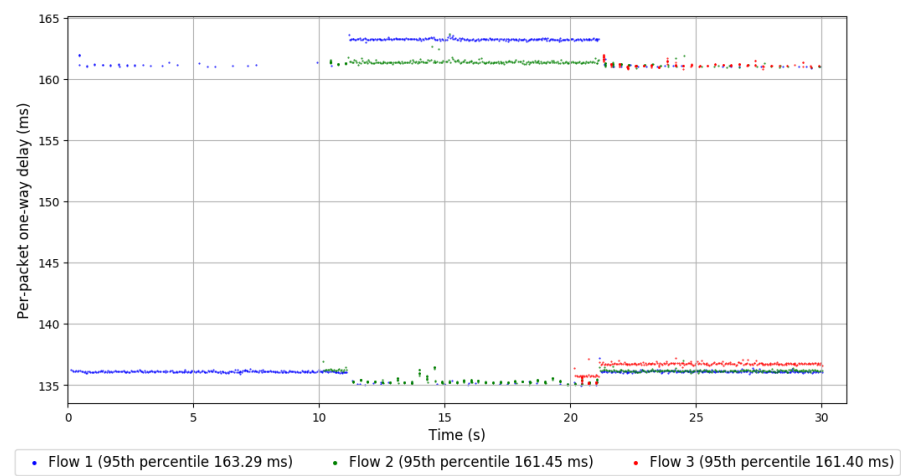
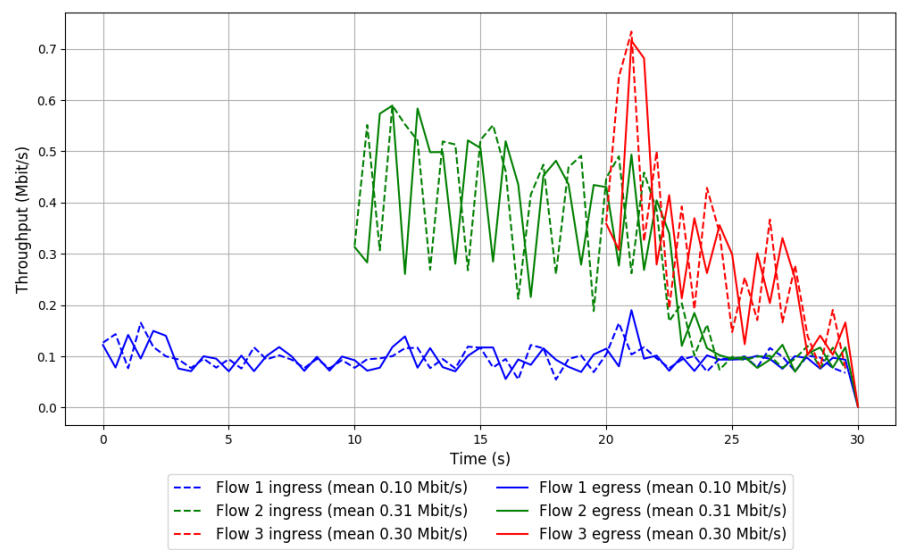
-- Flow 3:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 161.397 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-11-17 09:33:44

End at: 2017-11-17 09:34:14

Below is generated by plot.py at 2017-11-17 11:55:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.90 Mbit/s

95th percentile per-packet one-way delay: 136.673 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 135.749 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 136.198 ms

Loss rate: 0.00%

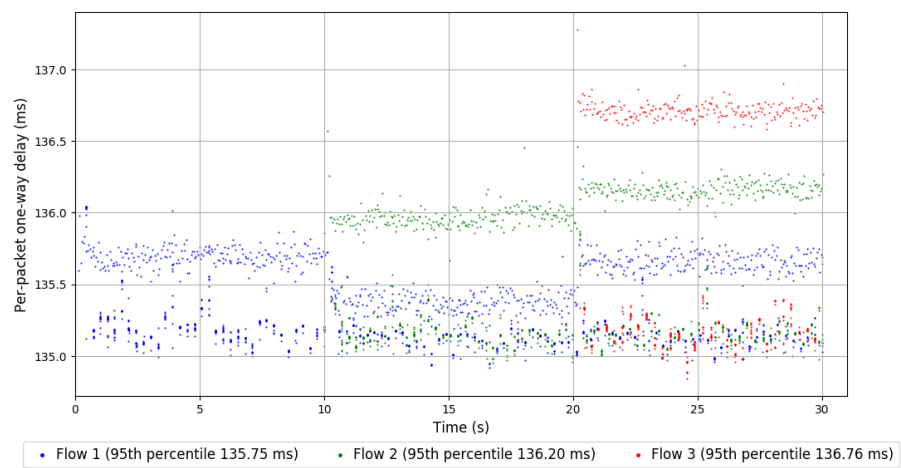
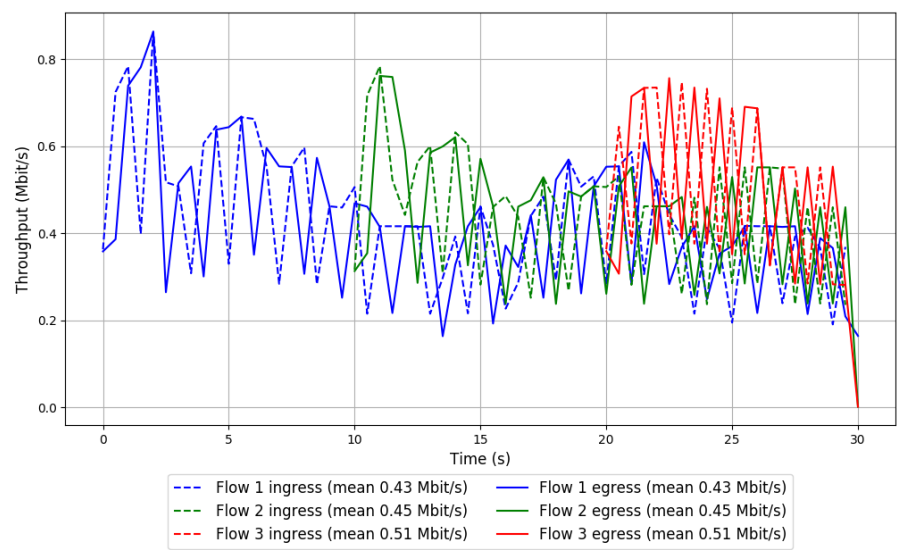
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 136.764 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-17 09:47:53

End at: 2017-11-17 09:48:23

Below is generated by plot.py at 2017-11-17 11:55:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.89 Mbit/s

95th percentile per-packet one-way delay: 136.971 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 136.381 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 137.071 ms

Loss rate: 0.00%

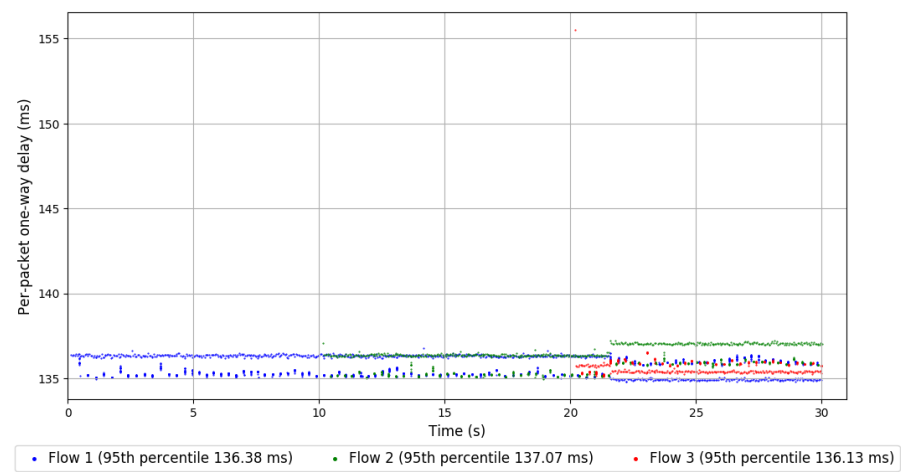
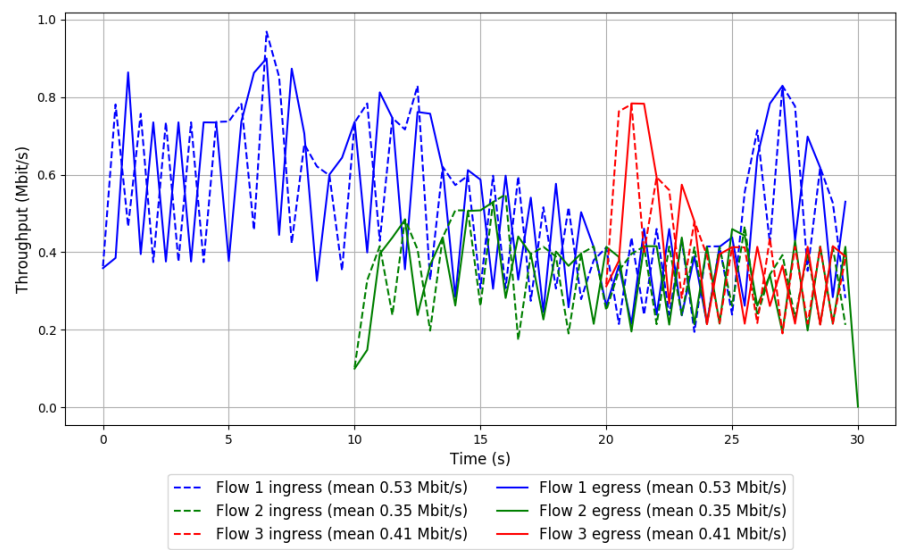
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.130 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-17 10:02:01

End at: 2017-11-17 10:02:31

Below is generated by plot.py at 2017-11-17 11:55:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.84 Mbit/s

95th percentile per-packet one-way delay: 136.396 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.428 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 135.895 ms

Loss rate: 0.00%

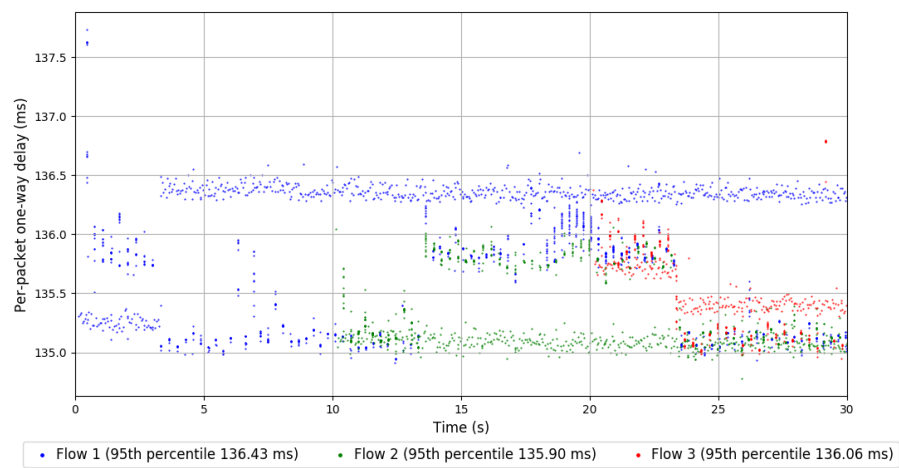
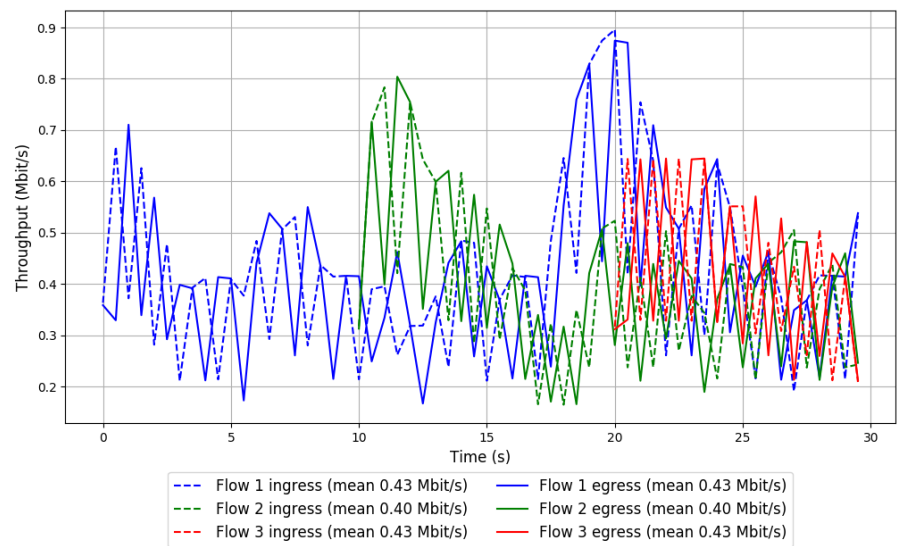
-- Flow 3:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.062 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-17 10:15:59

End at: 2017-11-17 10:16:29

Below is generated by plot.py at 2017-11-17 11:55:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.69 Mbit/s

95th percentile per-packet one-way delay: 166.088 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 166.068 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 166.094 ms

Loss rate: 0.00%

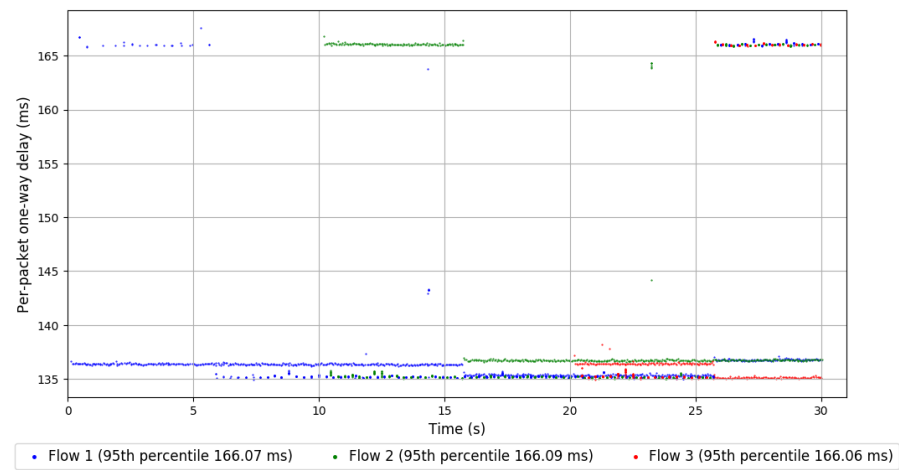
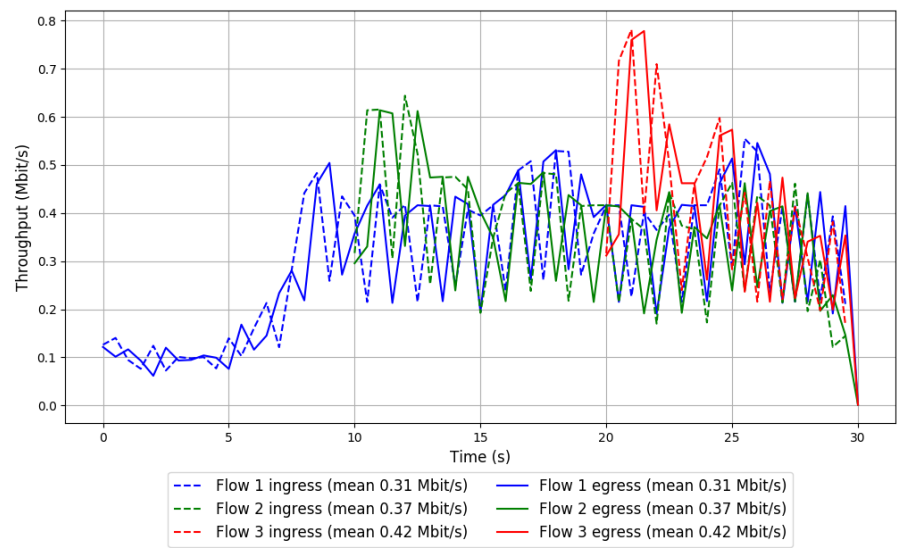
-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 166.056 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-17 10:29:20

End at: 2017-11-17 10:29:50

Below is generated by plot.py at 2017-11-17 11:55:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 166.195 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 166.227 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 166.078 ms

Loss rate: 0.00%

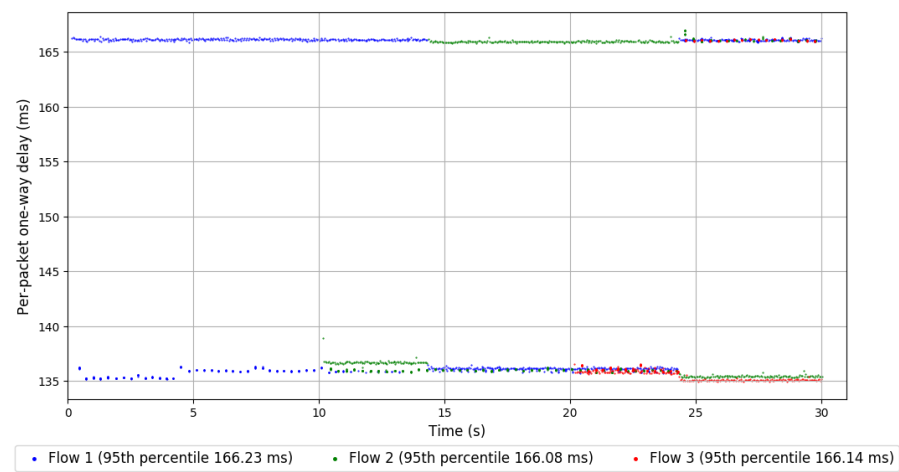
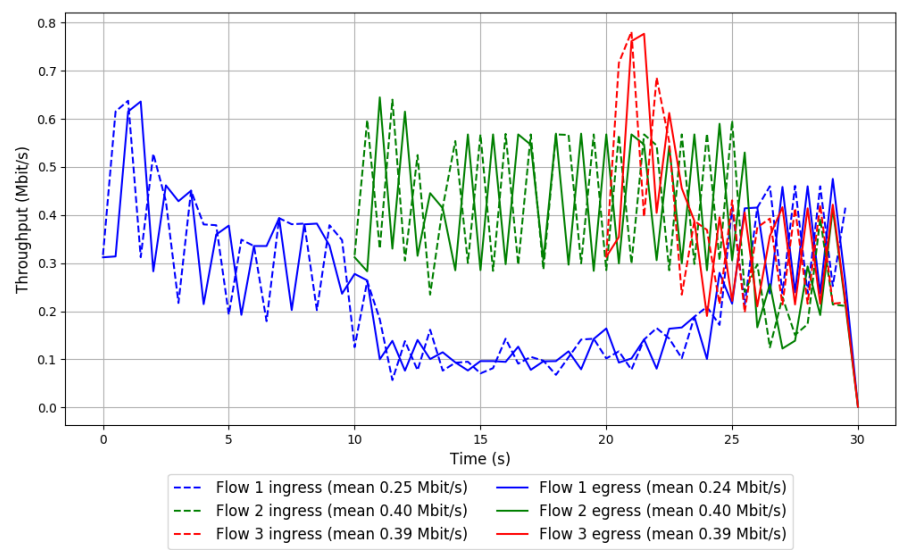
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 166.140 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

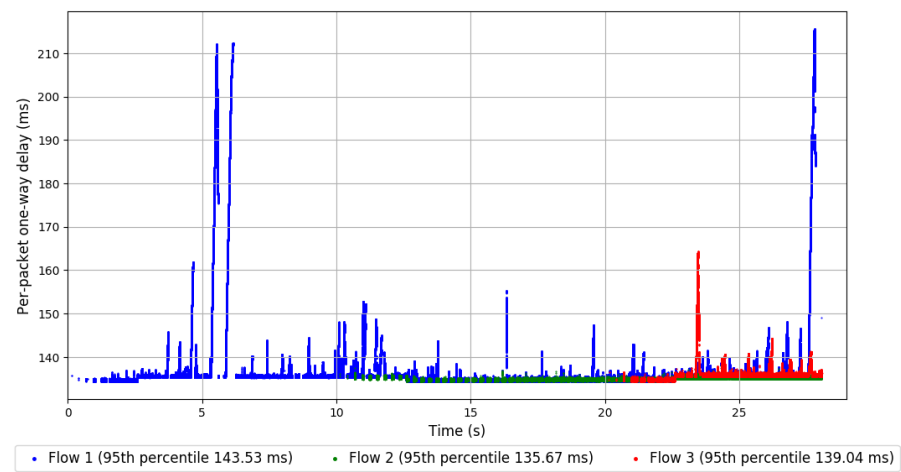
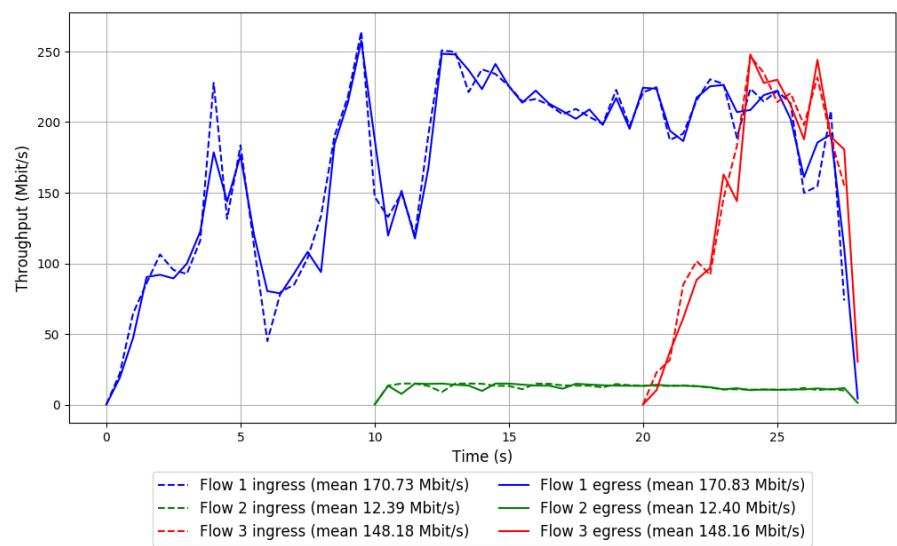


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-17 08:29:00
End at: 2017-11-17 08:29:30

# Below is generated by plot.py at 2017-11-17 11:55:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 220.75 Mbit/s
95th percentile per-packet one-way delay: 142.077 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 170.83 Mbit/s
95th percentile per-packet one-way delay: 143.527 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.40 Mbit/s
95th percentile per-packet one-way delay: 135.667 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 148.16 Mbit/s
95th percentile per-packet one-way delay: 139.036 ms
Loss rate: 0.00%
```


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

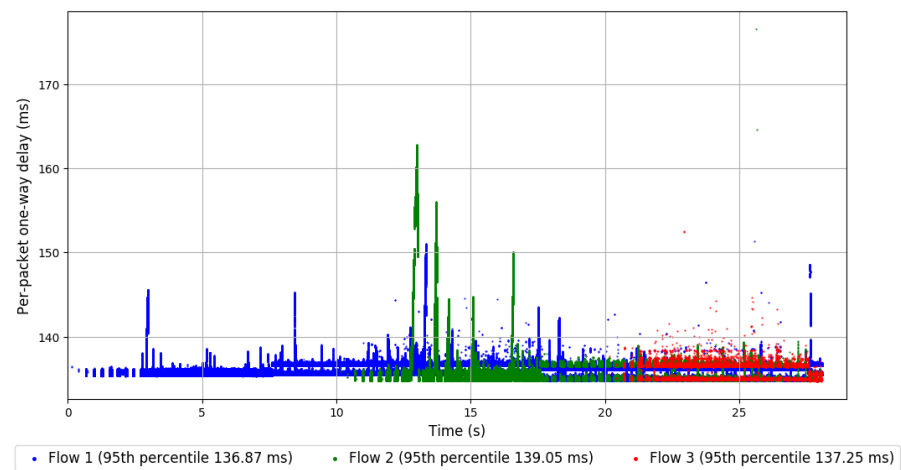
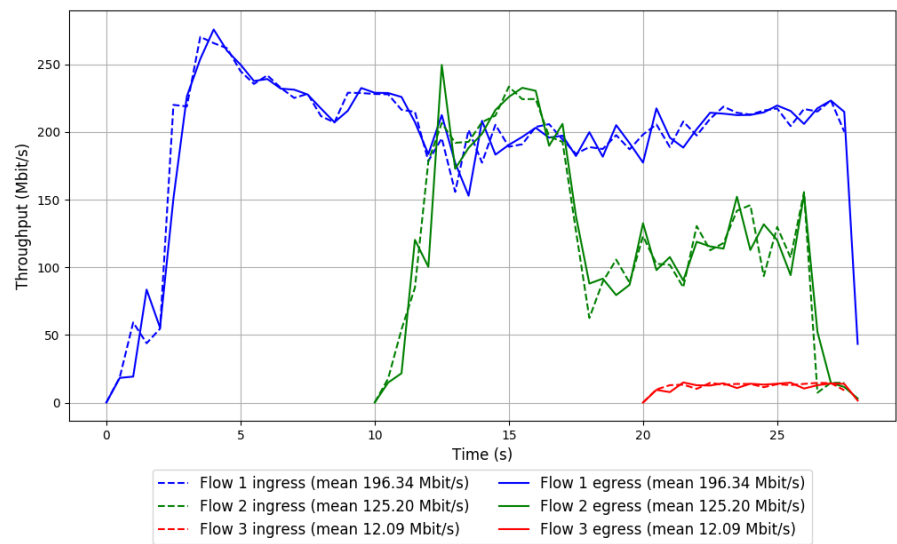


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-17 08:43:05
End at: 2017-11-17 08:43:35

# Below is generated by plot.py at 2017-11-17 11:56:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 279.82 Mbit/s
95th percentile per-packet one-way delay: 136.957 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 196.34 Mbit/s
95th percentile per-packet one-way delay: 136.873 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 125.20 Mbit/s
95th percentile per-packet one-way delay: 139.047 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.09 Mbit/s
95th percentile per-packet one-way delay: 137.252 ms
Loss rate: 0.00%
```

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

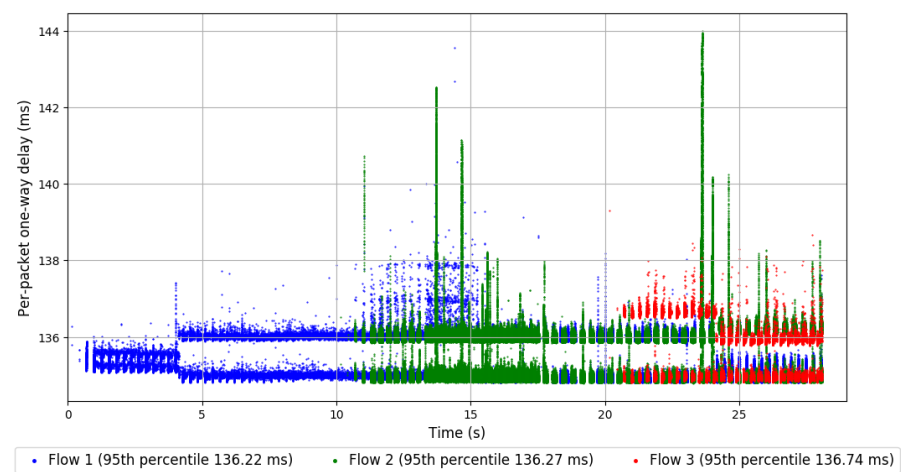
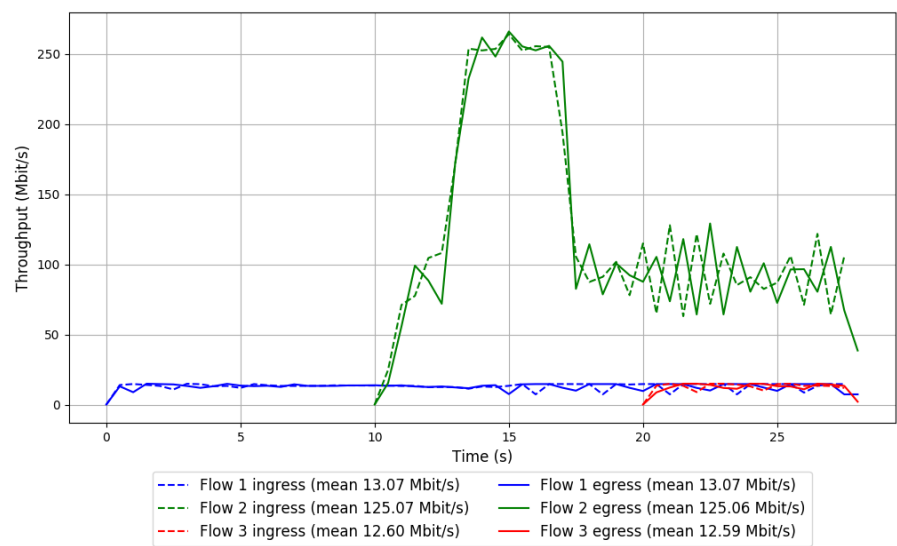


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-11-17 08:57:18
End at: 2017-11-17 08:57:48

# Below is generated by plot.py at 2017-11-17 11:56:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.90 Mbit/s
95th percentile per-packet one-way delay: 136.287 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.07 Mbit/s
95th percentile per-packet one-way delay: 136.225 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 125.06 Mbit/s
95th percentile per-packet one-way delay: 136.266 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 136.740 ms
Loss rate: 0.00%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-11-17 09:11:19

End at: 2017-11-17 09:11:49

Below is generated by plot.py at 2017-11-17 11:56:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 101.93 Mbit/s

95th percentile per-packet one-way delay: 160.828 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 80.72 Mbit/s

95th percentile per-packet one-way delay: 160.834 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.35 Mbit/s

95th percentile per-packet one-way delay: 162.975 ms

Loss rate: 0.00%

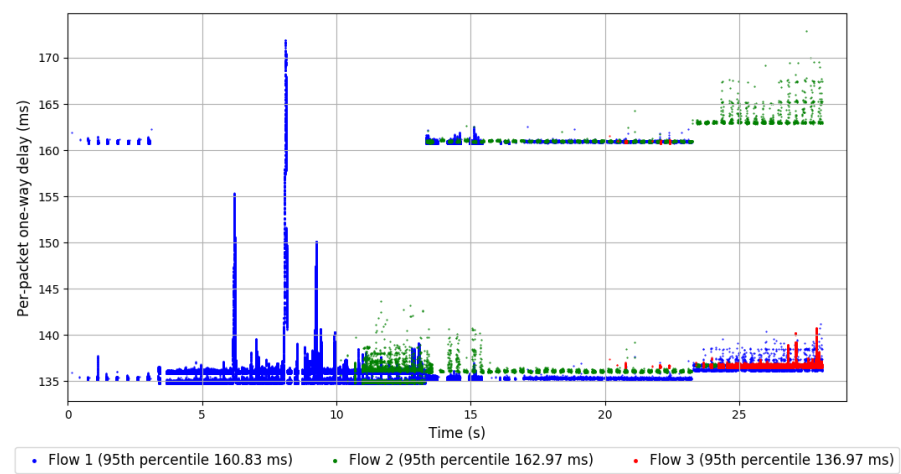
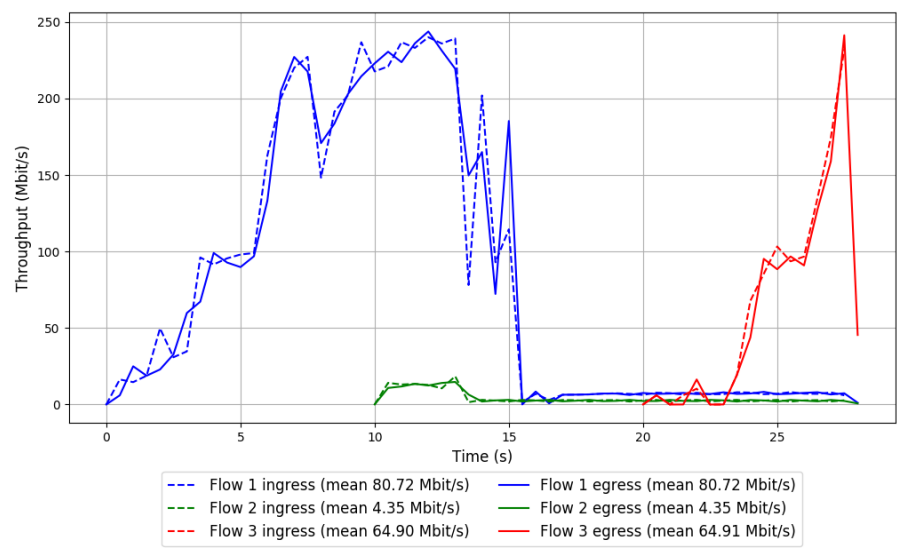
-- Flow 3:

Average throughput: 64.91 Mbit/s

95th percentile per-packet one-way delay: 136.971 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-11-17 09:25:03

End at: 2017-11-17 09:25:33

Below is generated by plot.py at 2017-11-17 11:56:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.73 Mbit/s

95th percentile per-packet one-way delay: 142.062 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 74.35 Mbit/s

95th percentile per-packet one-way delay: 136.888 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 10.59 Mbit/s

95th percentile per-packet one-way delay: 160.891 ms

Loss rate: 0.00%

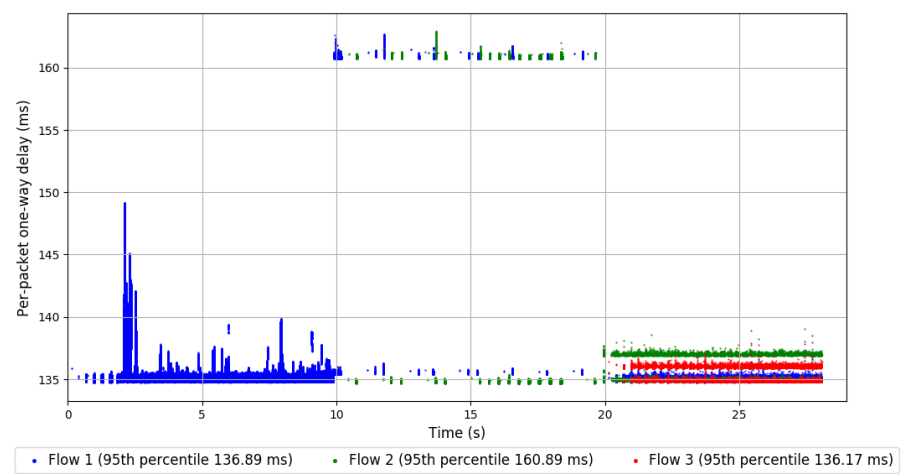
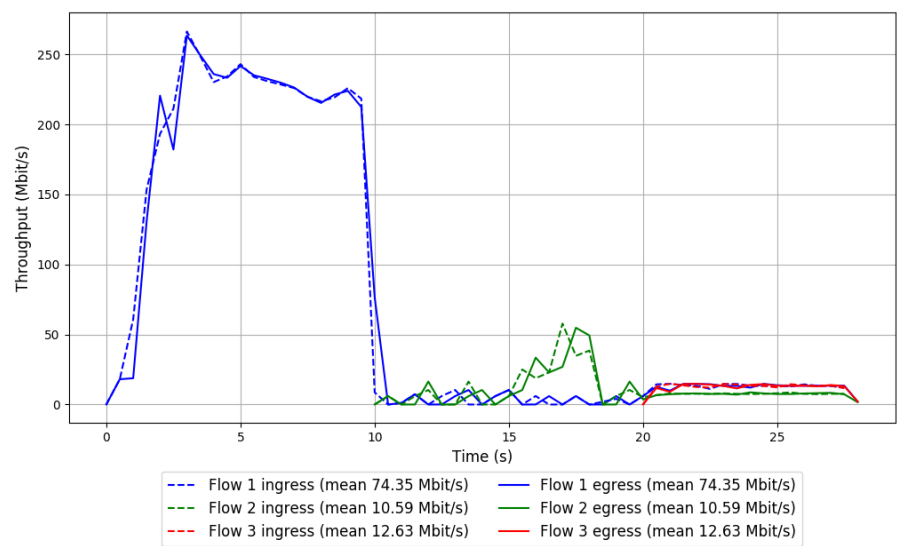
-- Flow 3:

Average throughput: 12.63 Mbit/s

95th percentile per-packet one-way delay: 136.166 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-17 09:38:25

End at: 2017-11-17 09:38:55

Below is generated by plot.py at 2017-11-17 11:56:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 179.17 Mbit/s

95th percentile per-packet one-way delay: 135.715 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 168.20 Mbit/s

95th percentile per-packet one-way delay: 135.680 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 11.68 Mbit/s

95th percentile per-packet one-way delay: 136.389 ms

Loss rate: 0.00%

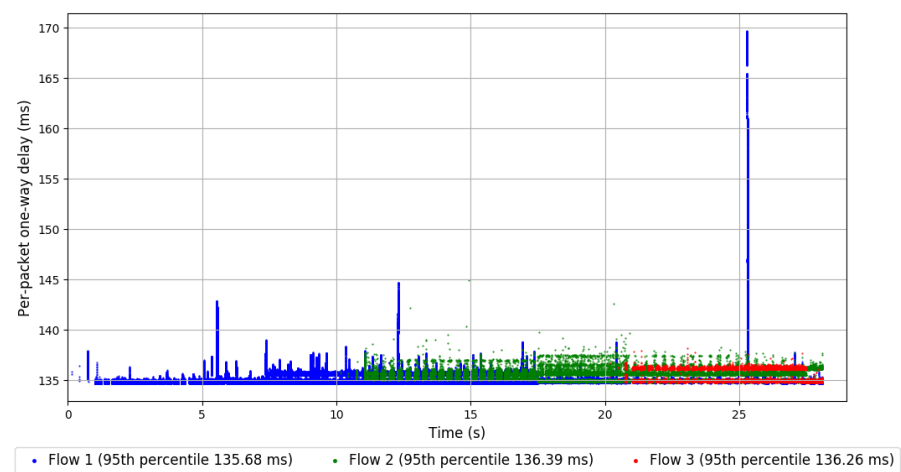
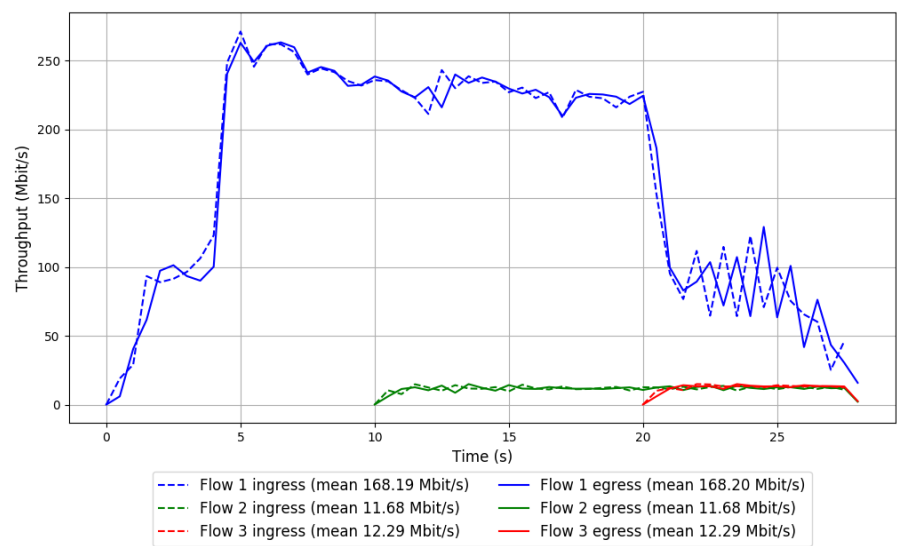
-- Flow 3:

Average throughput: 12.29 Mbit/s

95th percentile per-packet one-way delay: 136.264 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-11-17 09:52:30

End at: 2017-11-17 09:53:00

Below is generated by plot.py at 2017-11-17 12:00:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 347.43 Mbit/s

95th percentile per-packet one-way delay: 136.772 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 181.43 Mbit/s

95th percentile per-packet one-way delay: 136.395 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 194.59 Mbit/s

95th percentile per-packet one-way delay: 136.479 ms

Loss rate: 0.00%

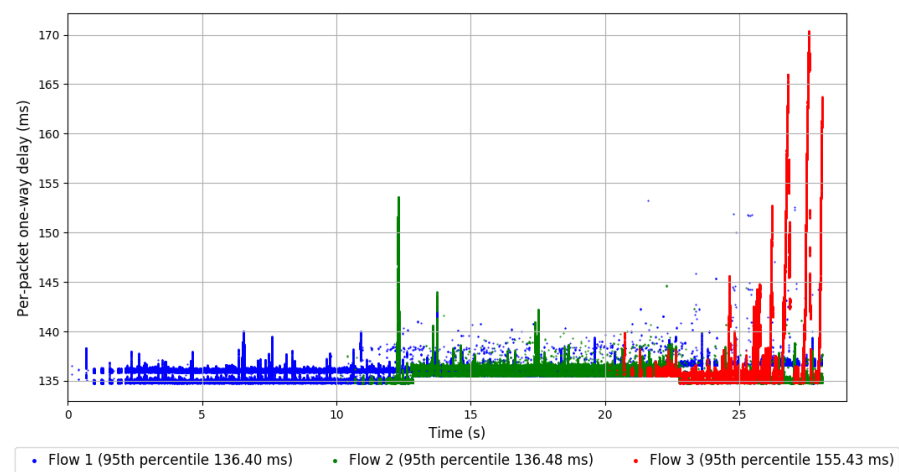
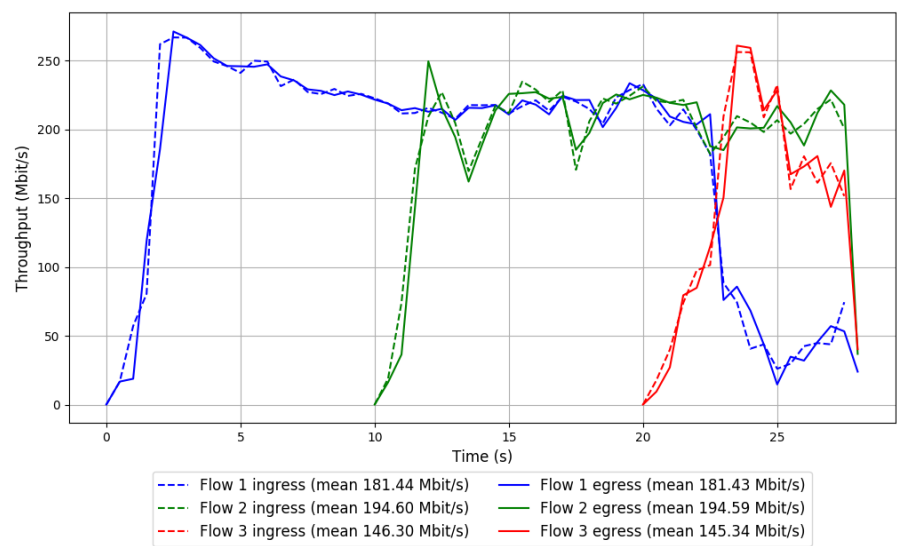
-- Flow 3:

Average throughput: 145.34 Mbit/s

95th percentile per-packet one-way delay: 155.430 ms

Loss rate: 0.64%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-17 10:06:37

End at: 2017-11-17 10:07:07

Below is generated by plot.py at 2017-11-17 12:00:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 249.44 Mbit/s

95th percentile per-packet one-way delay: 136.573 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 193.81 Mbit/s

95th percentile per-packet one-way delay: 136.219 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 17.42 Mbit/s

95th percentile per-packet one-way delay: 136.861 ms

Loss rate: 0.00%

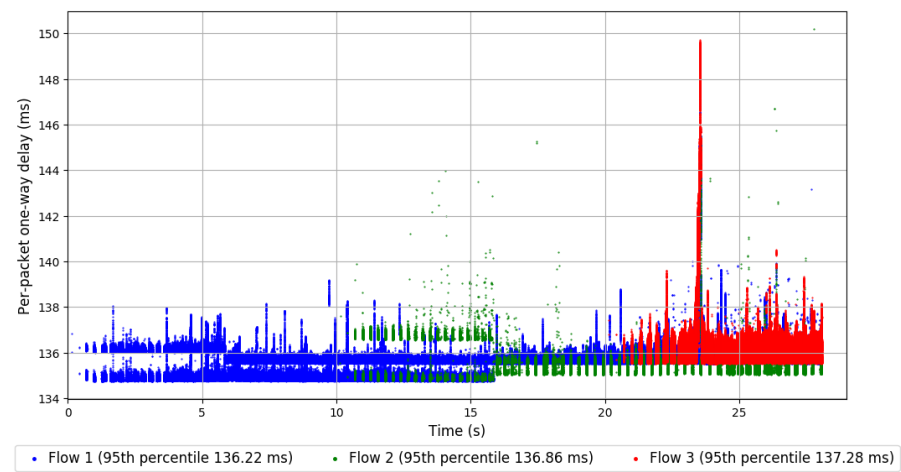
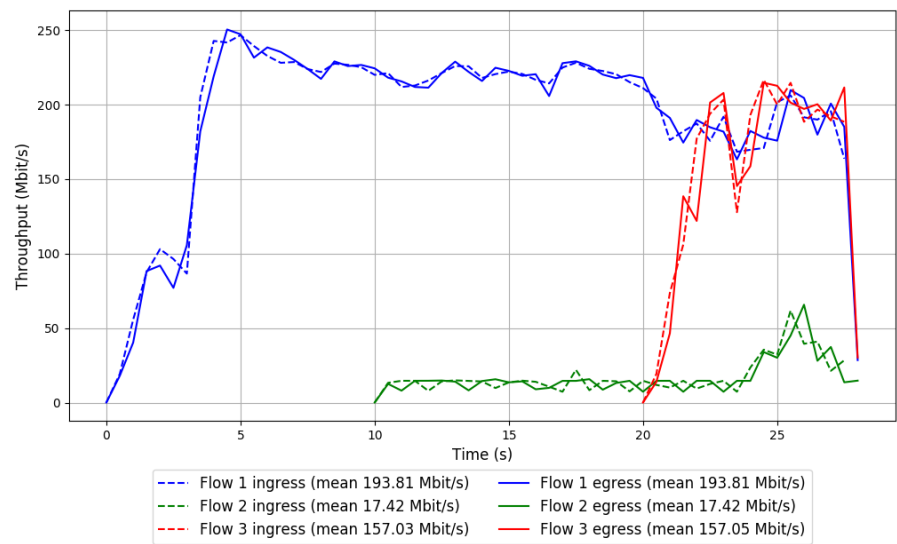
-- Flow 3:

Average throughput: 157.05 Mbit/s

95th percentile per-packet one-way delay: 137.278 ms

Loss rate: 0.00%

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

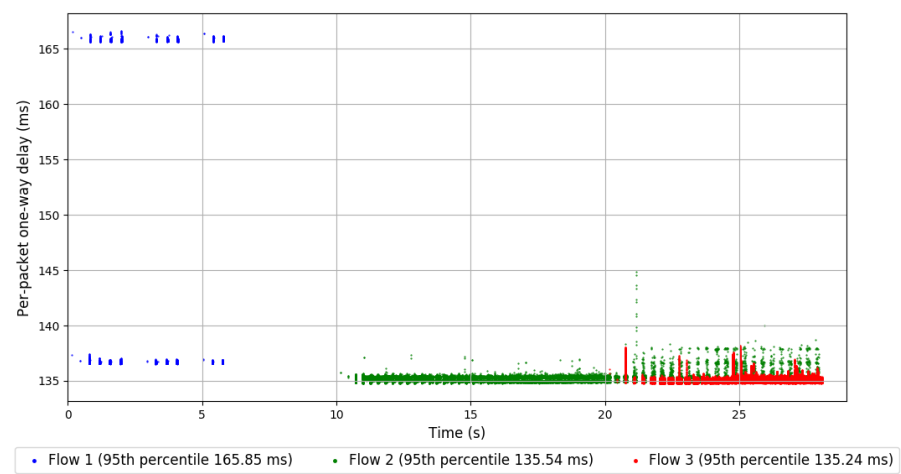
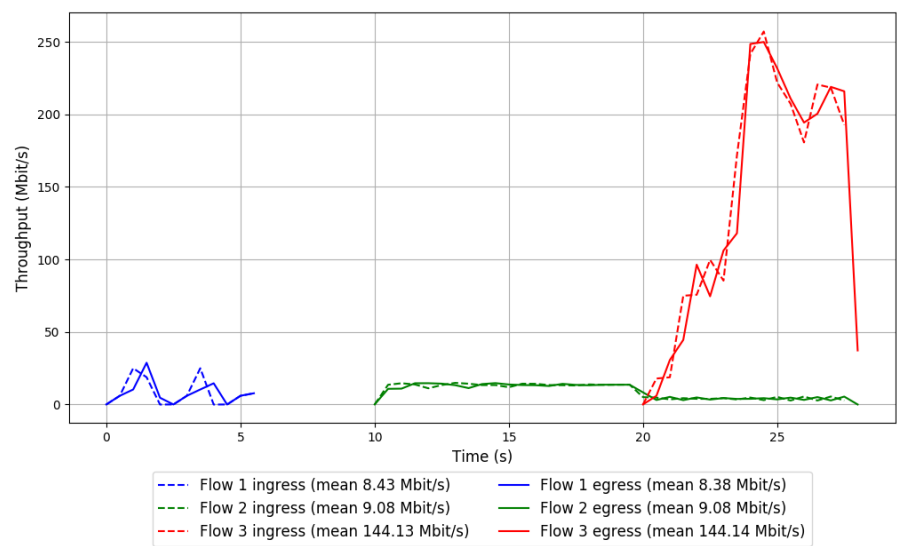


```
Run 9: Statistics of TaoVA-100x

Start at: 2017-11-17 10:20:33
End at: 2017-11-17 10:21:03

# Below is generated by plot.py at 2017-11-17 12:00:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.36 Mbit/s
95th percentile per-packet one-way delay: 135.658 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.38 Mbit/s
95th percentile per-packet one-way delay: 165.850 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 9.08 Mbit/s
95th percentile per-packet one-way delay: 135.537 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 144.14 Mbit/s
95th percentile per-packet one-way delay: 135.237 ms
Loss rate: 0.00%
```


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

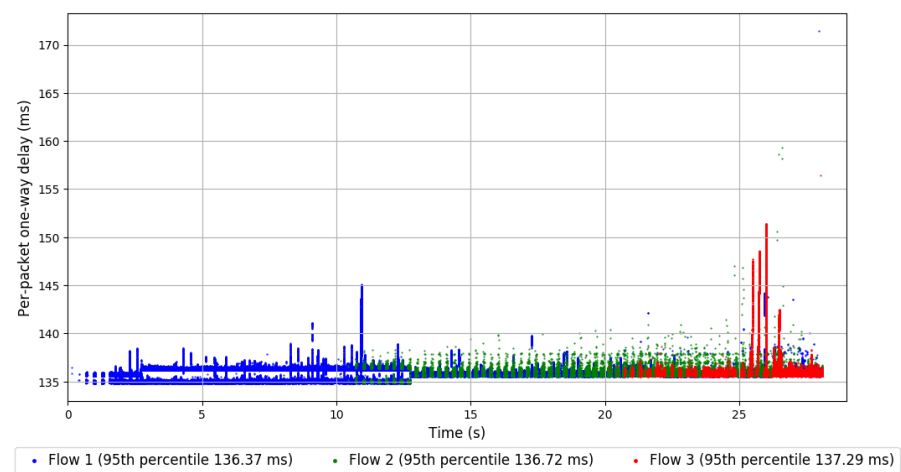
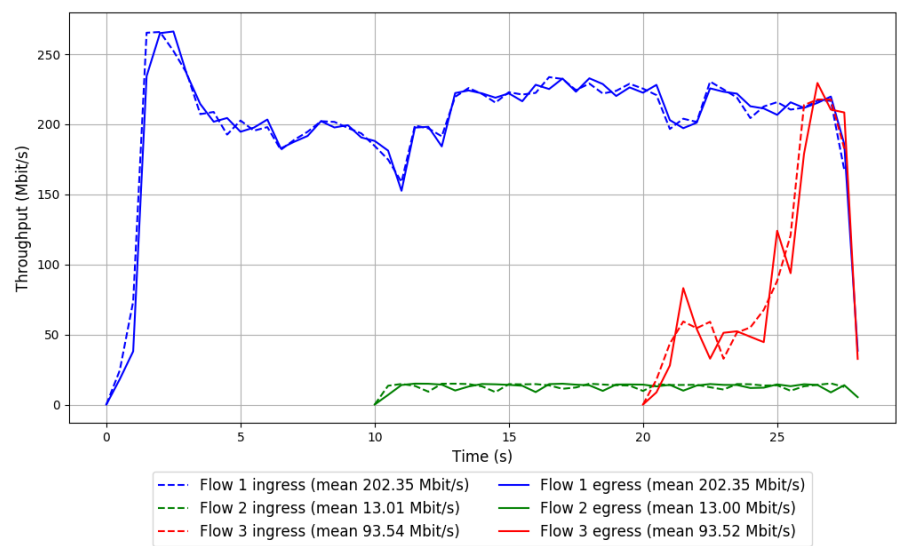


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-11-17 10:34:00
End at: 2017-11-17 10:34:30

# Below is generated by plot.py at 2017-11-17 12:00:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 237.17 Mbit/s
95th percentile per-packet one-way delay: 136.384 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 202.35 Mbit/s
95th percentile per-packet one-way delay: 136.366 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.00 Mbit/s
95th percentile per-packet one-way delay: 136.725 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 93.52 Mbit/s
95th percentile per-packet one-way delay: 137.295 ms
Loss rate: 0.07%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-11-17 08:28:05

End at: 2017-11-17 08:28:35

Below is generated by plot.py at 2017-11-17 12:00:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.84 Mbit/s

95th percentile per-packet one-way delay: 147.012 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 23.69 Mbit/s

95th percentile per-packet one-way delay: 140.367 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 52.96 Mbit/s

95th percentile per-packet one-way delay: 150.807 ms

Loss rate: 0.01%

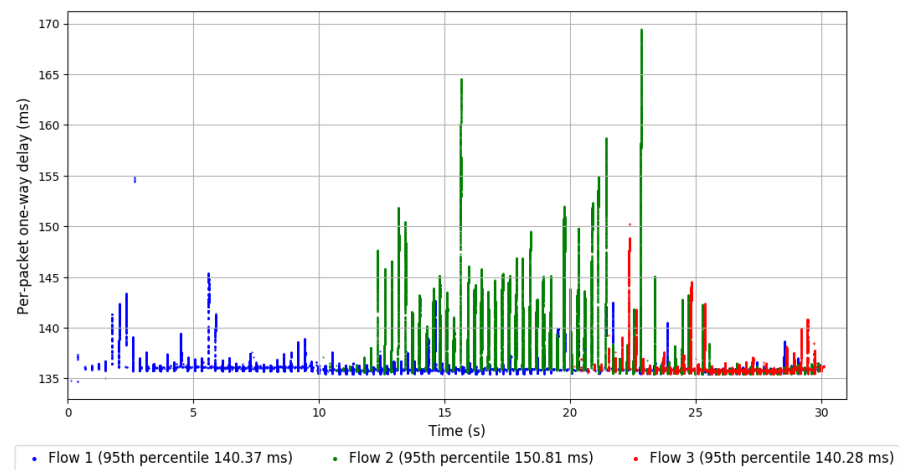
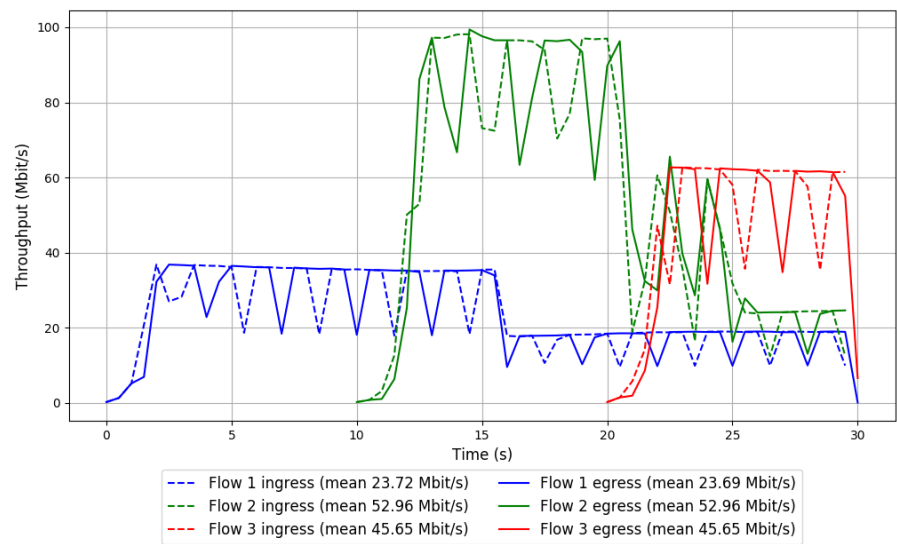
-- Flow 3:

Average throughput: 45.65 Mbit/s

95th percentile per-packet one-way delay: 140.275 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-17 08:42:14

End at: 2017-11-17 08:42:44

Below is generated by plot.py at 2017-11-17 12:00:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.91 Mbit/s

95th percentile per-packet one-way delay: 145.682 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 2.48 Mbit/s

95th percentile per-packet one-way delay: 136.212 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 18.57 Mbit/s

95th percentile per-packet one-way delay: 142.018 ms

Loss rate: 0.03%

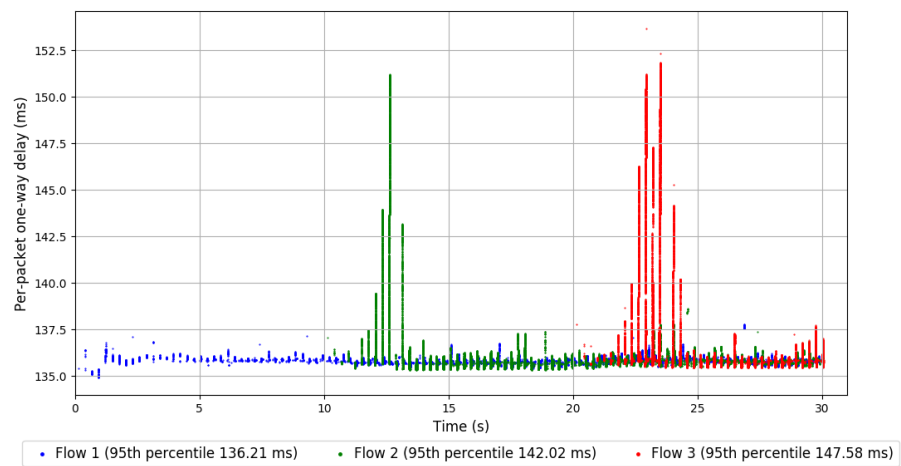
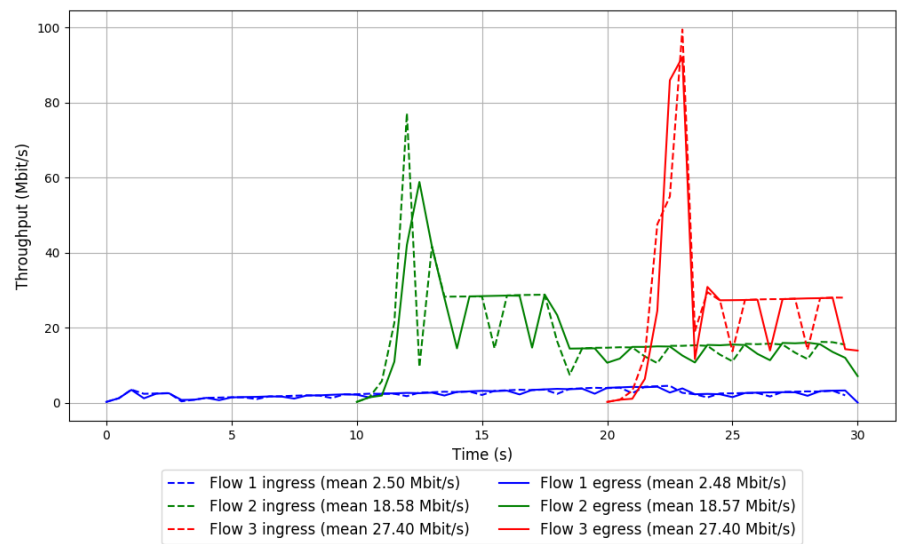
-- Flow 3:

Average throughput: 27.40 Mbit/s

95th percentile per-packet one-way delay: 147.577 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-11-17 08:56:24

End at: 2017-11-17 08:56:54

Below is generated by plot.py at 2017-11-17 12:00:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 58.27 Mbit/s

95th percentile per-packet one-way delay: 138.711 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 32.05 Mbit/s

95th percentile per-packet one-way delay: 137.877 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 25.61 Mbit/s

95th percentile per-packet one-way delay: 138.261 ms

Loss rate: 0.00%

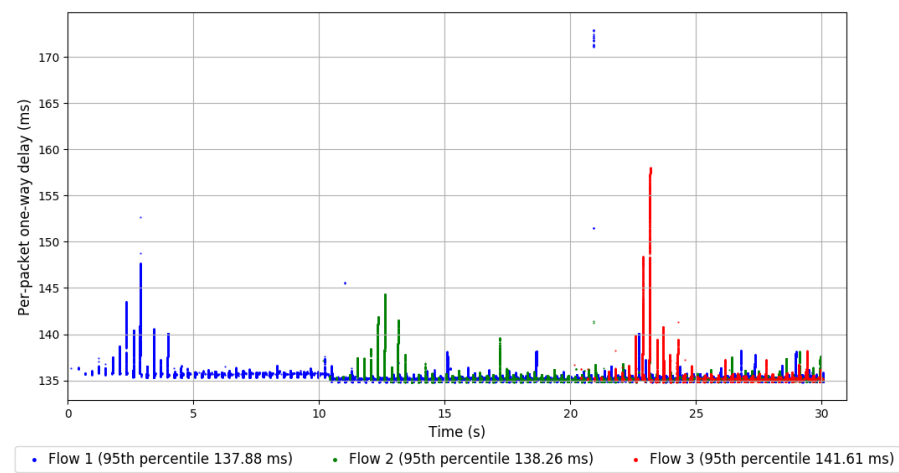
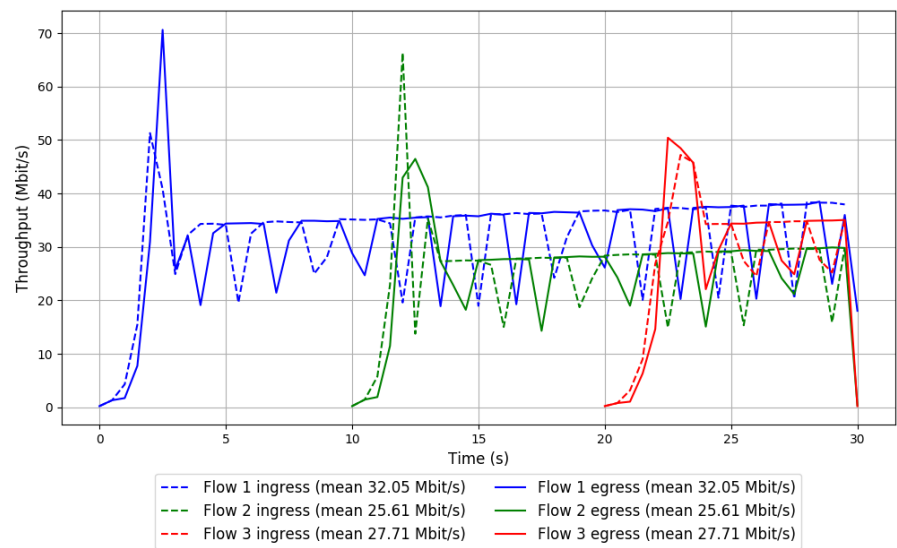
-- Flow 3:

Average throughput: 27.71 Mbit/s

95th percentile per-packet one-way delay: 141.606 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-17 09:10:25

End at: 2017-11-17 09:10:55

Below is generated by plot.py at 2017-11-17 12:00:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.39 Mbit/s

95th percentile per-packet one-way delay: 141.230 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.41 Mbit/s

95th percentile per-packet one-way delay: 140.185 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 28.53 Mbit/s

95th percentile per-packet one-way delay: 144.447 ms

Loss rate: 0.00%

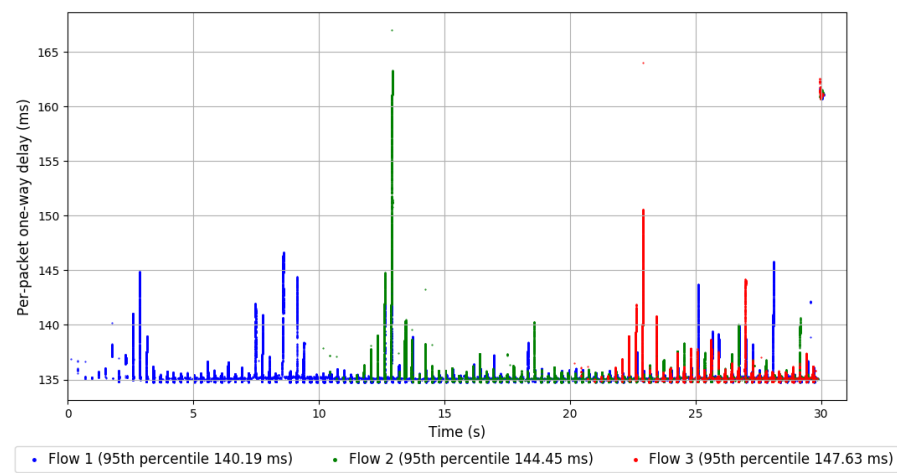
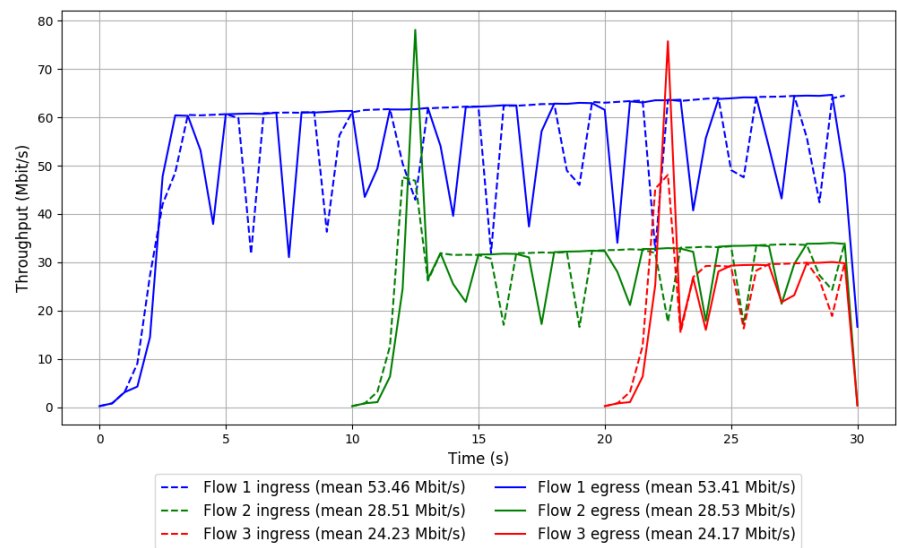
-- Flow 3:

Average throughput: 24.17 Mbit/s

95th percentile per-packet one-way delay: 147.634 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-11-17 09:24:09

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

Below is generated by plot.py at 2017-11-17 12:00:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.09 Mbit/s

95th percentile per-packet one-way delay: 137.931 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 26.91 Mbit/s

95th percentile per-packet one-way delay: 137.482 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.24 Mbit/s

95th percentile per-packet one-way delay: 137.231 ms

Loss rate: 0.00%

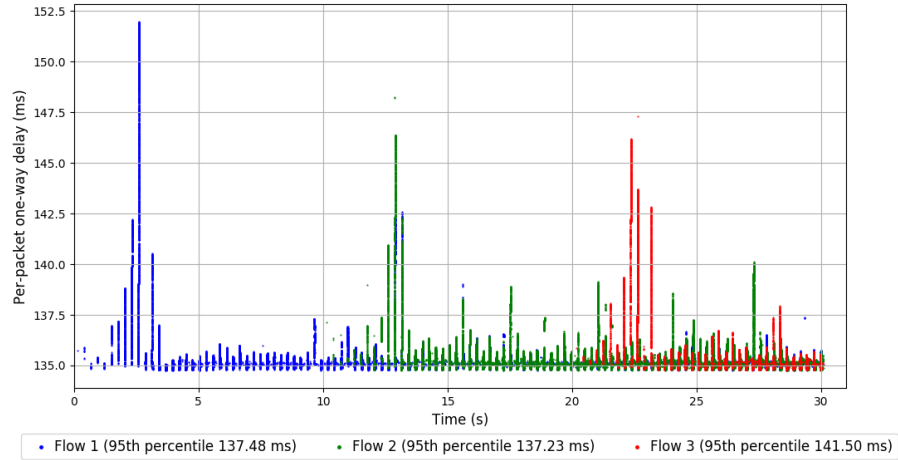
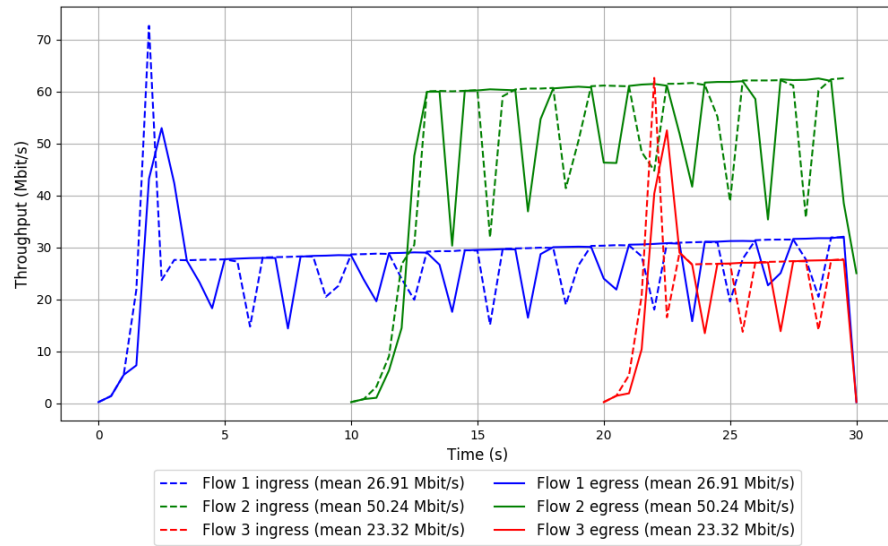
-- Flow 3:

Average throughput: 23.32 Mbit/s

95th percentile per-packet one-way delay: 141.503 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-17 09:37:32

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

Below is generated by plot.py at 2017-11-17 12:00:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.41 Mbit/s

95th percentile per-packet one-way delay: 145.233 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 10.61 Mbit/s

95th percentile per-packet one-way delay: 138.163 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 28.94 Mbit/s

95th percentile per-packet one-way delay: 140.185 ms

Loss rate: 0.04%

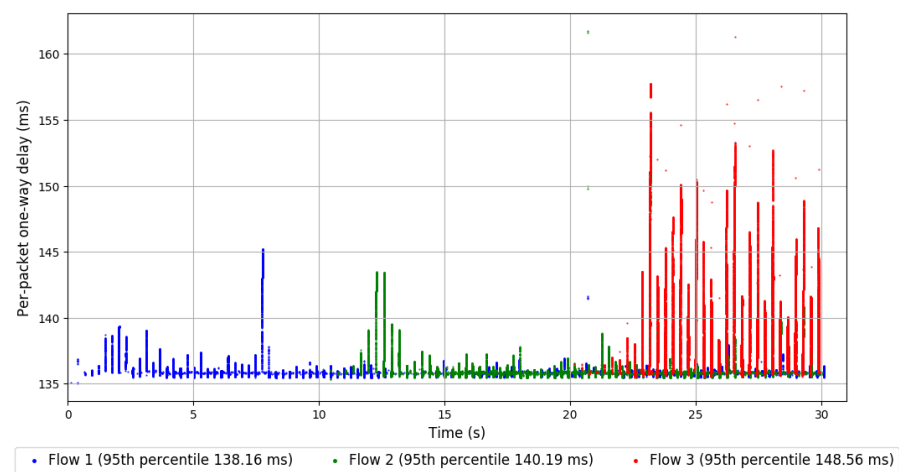
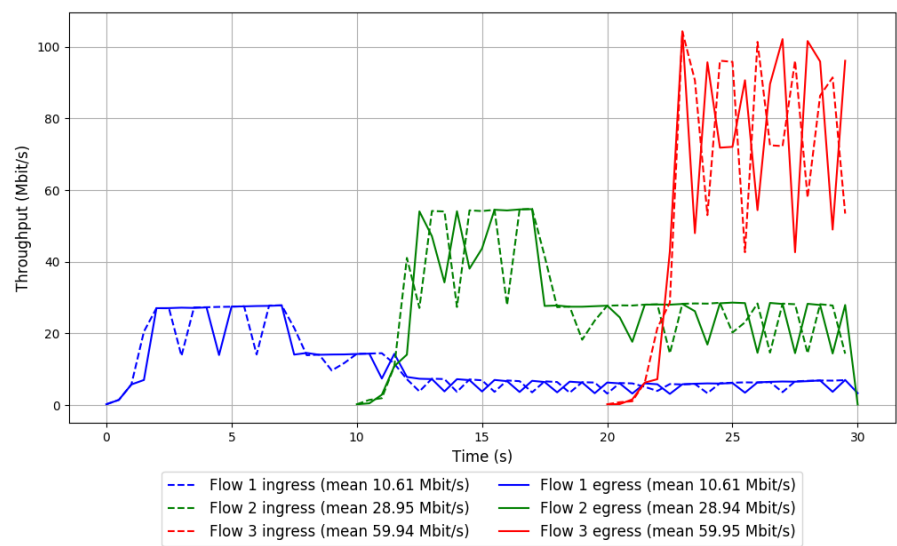
-- Flow 3:

Average throughput: 59.95 Mbit/s

95th percentile per-packet one-way delay: 148.555 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-11-17 09:51:38

End at: 2017-11-17 09:52:08

Below is generated by plot.py at 2017-11-17 12:00:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 34.88 Mbit/s

95th percentile per-packet one-way delay: 142.873 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 15.35 Mbit/s

95th percentile per-packet one-way delay: 142.191 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 15.98 Mbit/s

95th percentile per-packet one-way delay: 143.985 ms

Loss rate: 0.01%

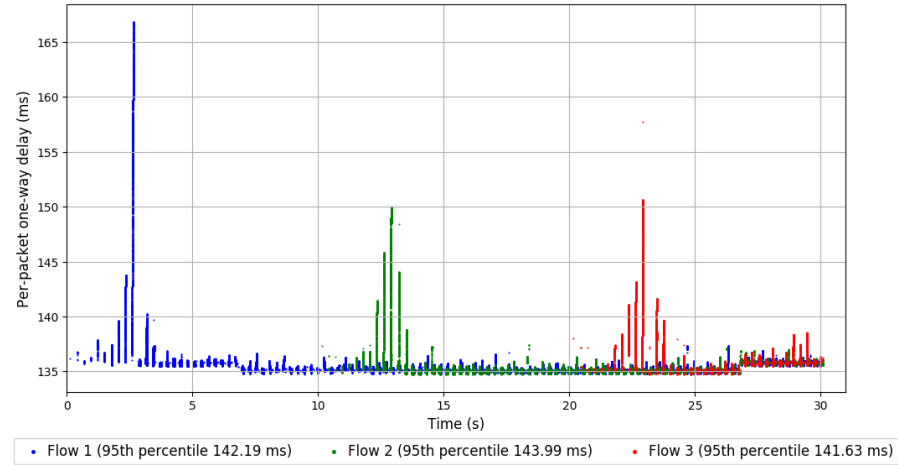
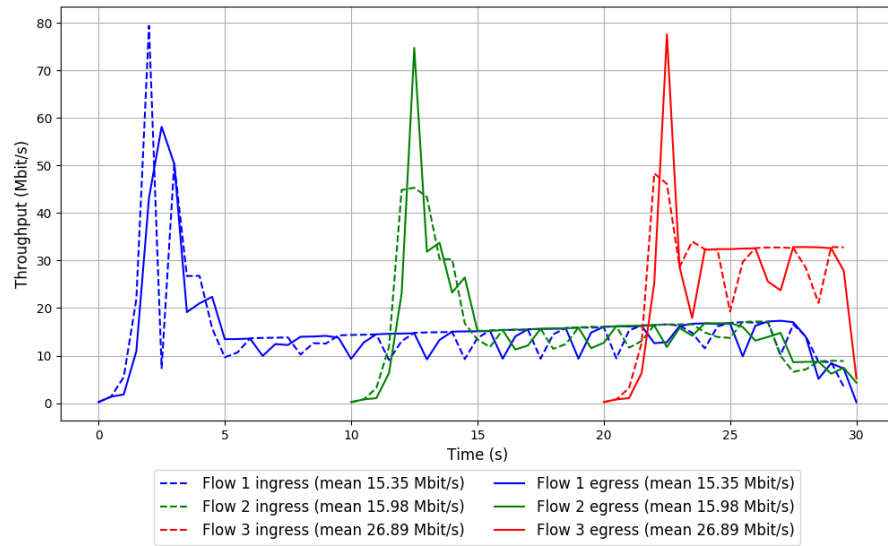
-- Flow 3:

Average throughput: 26.89 Mbit/s

95th percentile per-packet one-way delay: 141.635 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-11-17 10:05:44

End at: 2017-11-17 10:06:14

Below is generated by plot.py at 2017-11-17 12:00:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.32 Mbit/s

95th percentile per-packet one-way delay: 137.463 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 32.89 Mbit/s

95th percentile per-packet one-way delay: 137.123 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.84 Mbit/s

95th percentile per-packet one-way delay: 136.287 ms

Loss rate: 0.30%

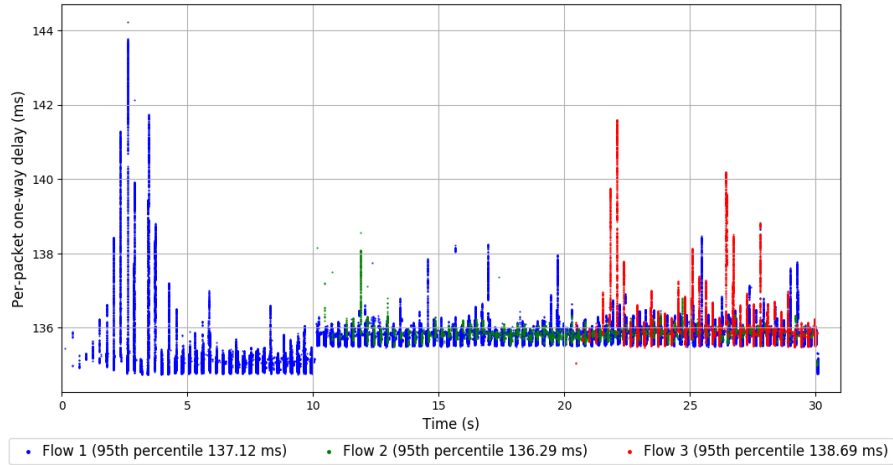
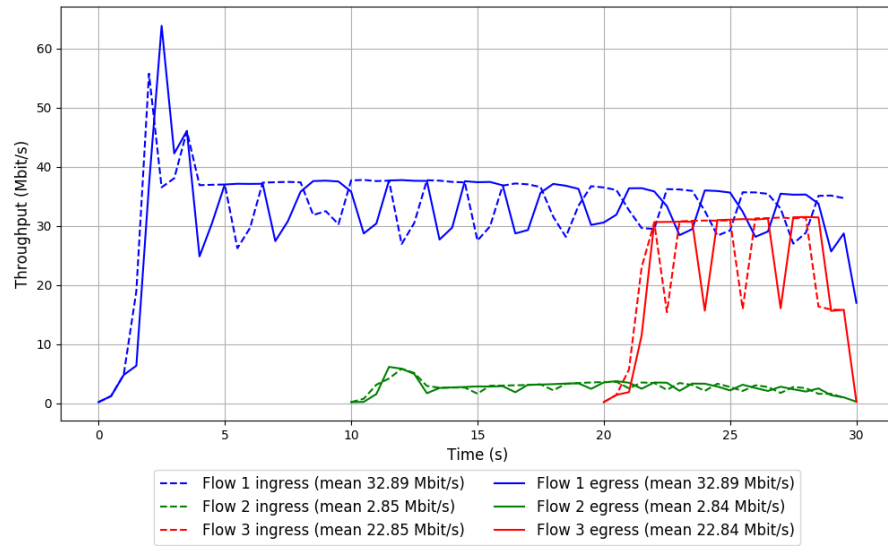
-- Flow 3:

Average throughput: 22.84 Mbit/s

95th percentile per-packet one-way delay: 138.685 ms

Loss rate: 0.04%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-11-17 10:19:43

End at: 2017-11-17 10:20:13

Below is generated by plot.py at 2017-11-17 12:00:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.66 Mbit/s

95th percentile per-packet one-way delay: 167.227 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 8.69 Mbit/s

95th percentile per-packet one-way delay: 167.277 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 166.156 ms

Loss rate: 0.15%

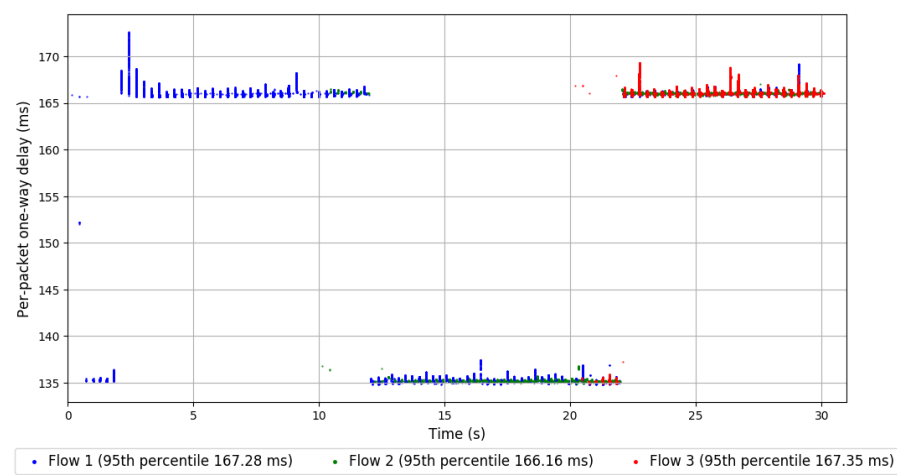
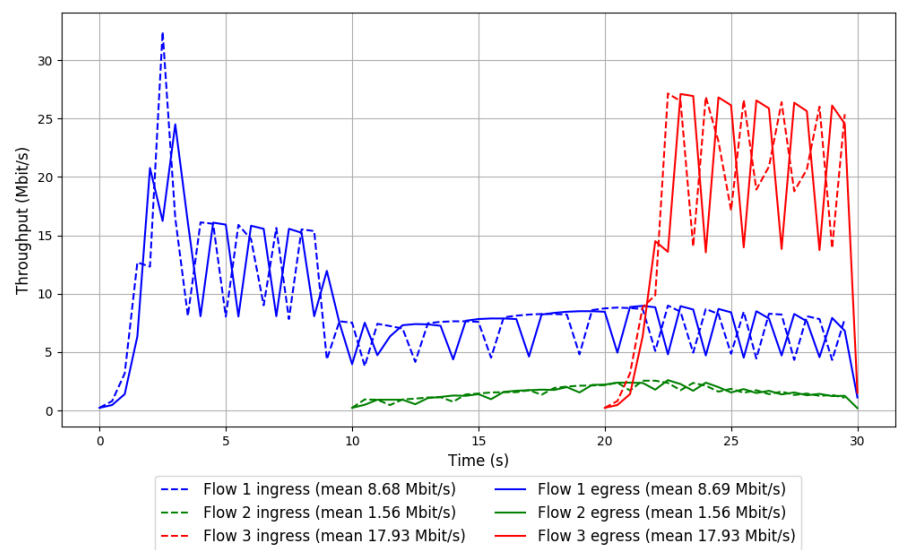
-- Flow 3:

Average throughput: 17.93 Mbit/s

95th percentile per-packet one-way delay: 167.346 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-17 10:33:06

End at: 2017-11-17 10:33:36

Below is generated by plot.py at 2017-11-17 12:00:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.46 Mbit/s

95th percentile per-packet one-way delay: 166.336 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 38.71 Mbit/s

95th percentile per-packet one-way delay: 166.255 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 24.92 Mbit/s

95th percentile per-packet one-way delay: 166.479 ms

Loss rate: 0.02%

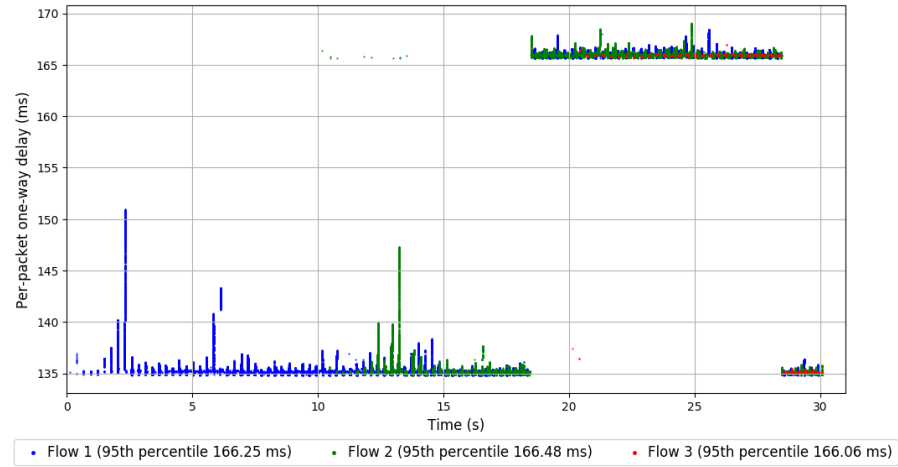
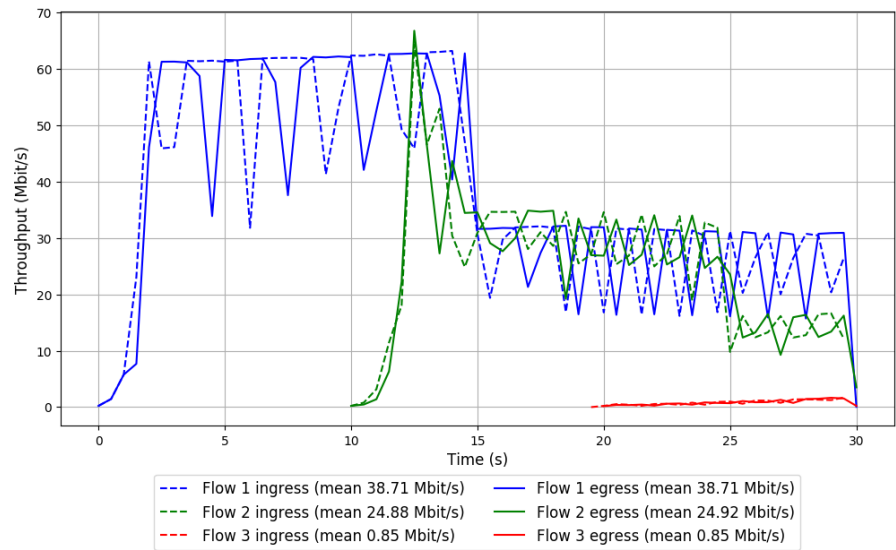
-- Flow 3:

Average throughput: 0.85 Mbit/s

95th percentile per-packet one-way delay: 166.065 ms

Loss rate: 0.28%

Run 10: Report of TCP Vegas — Data Link

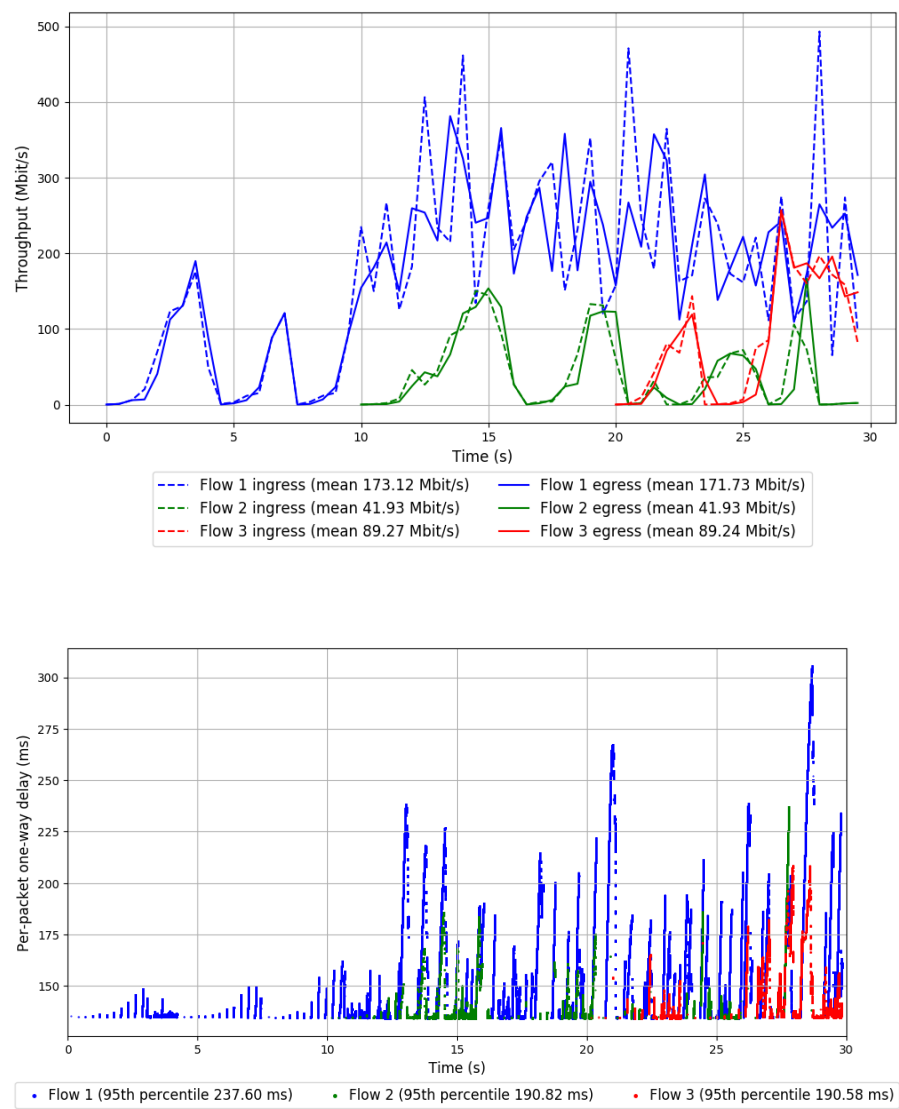


```
Run 1: Statistics of Verus

Start at: 2017-11-17 08:35:08
End at: 2017-11-17 08:35:38

# Below is generated by plot.py at 2017-11-17 12:00:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 228.39 Mbit/s
95th percentile per-packet one-way delay: 228.252 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 171.73 Mbit/s
95th percentile per-packet one-way delay: 237.601 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 41.93 Mbit/s
95th percentile per-packet one-way delay: 190.822 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 89.24 Mbit/s
95th percentile per-packet one-way delay: 190.579 ms
Loss rate: 0.00%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-17 08:49:11

End at: 2017-11-17 08:49:41

Below is generated by plot.py at 2017-11-17 12:00:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 241.67 Mbit/s

95th percentile per-packet one-way delay: 208.221 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 176.28 Mbit/s

95th percentile per-packet one-way delay: 223.290 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 84.29 Mbit/s

95th percentile per-packet one-way delay: 159.404 ms

Loss rate: 0.01%

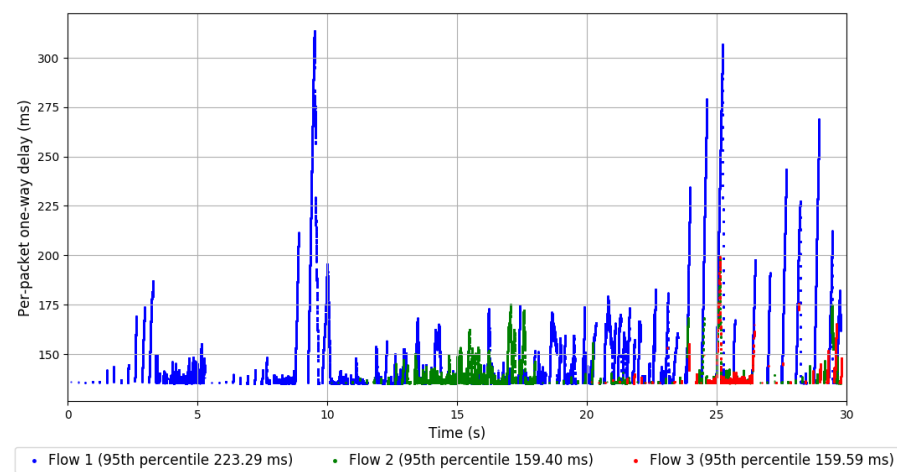
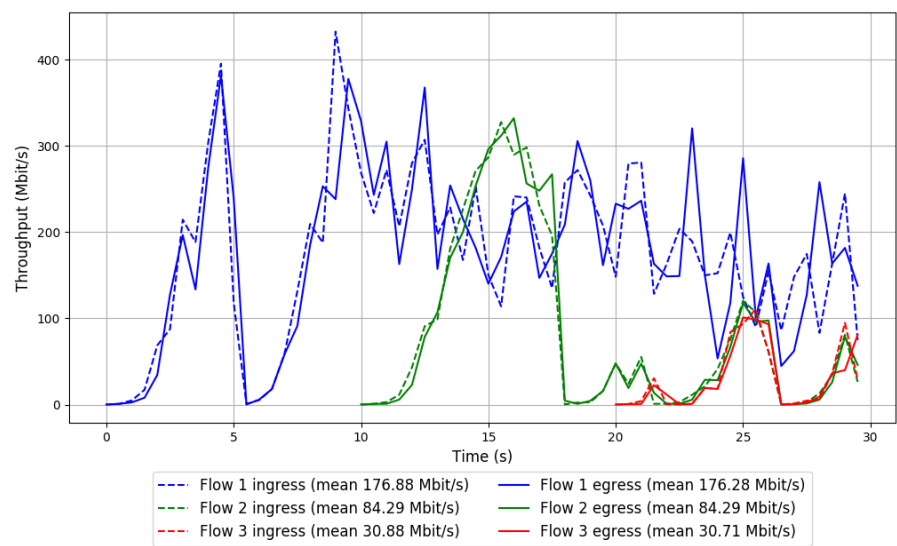
-- Flow 3:

Average throughput: 30.71 Mbit/s

95th percentile per-packet one-way delay: 159.585 ms

Loss rate: 0.52%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-17 09:03:19

End at: 2017-11-17 09:03:49

Below is generated by plot.py at 2017-11-17 12:00:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 197.60 Mbit/s

95th percentile per-packet one-way delay: 163.149 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 154.18 Mbit/s

95th percentile per-packet one-way delay: 161.456 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 47.47 Mbit/s

95th percentile per-packet one-way delay: 176.235 ms

Loss rate: 0.00%

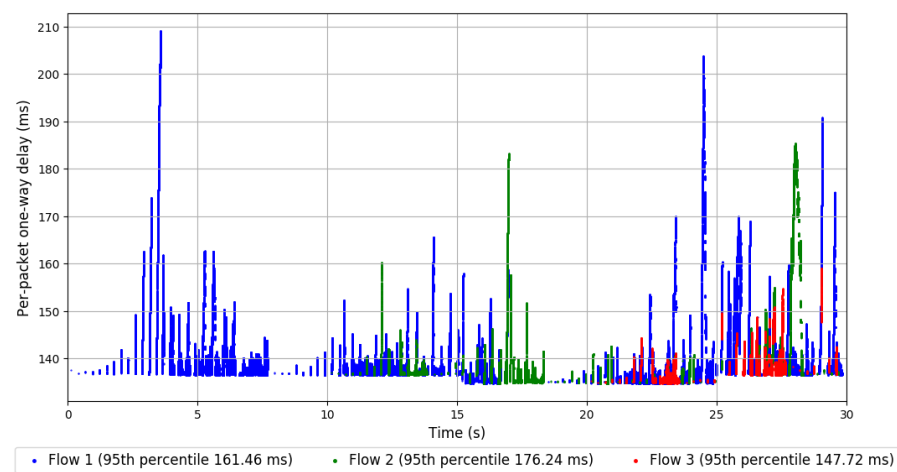
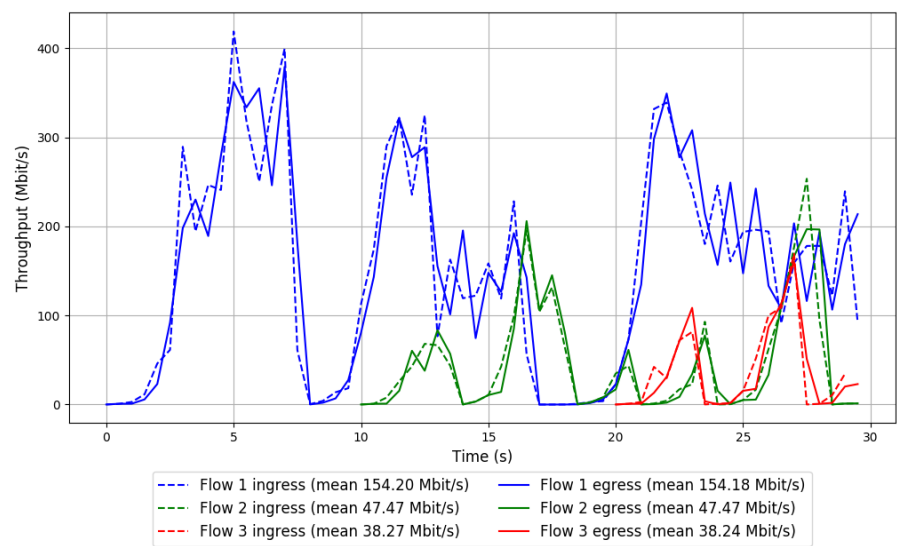
-- Flow 3:

Average throughput: 38.24 Mbit/s

95th percentile per-packet one-way delay: 147.721 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-17 09:17:04

End at: 2017-11-17 09:17:34

Below is generated by plot.py at 2017-11-17 12:00:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 200.05 Mbit/s

95th percentile per-packet one-way delay: 226.854 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 91.21 Mbit/s

95th percentile per-packet one-way delay: 245.167 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 154.32 Mbit/s

95th percentile per-packet one-way delay: 208.708 ms

Loss rate: 1.22%

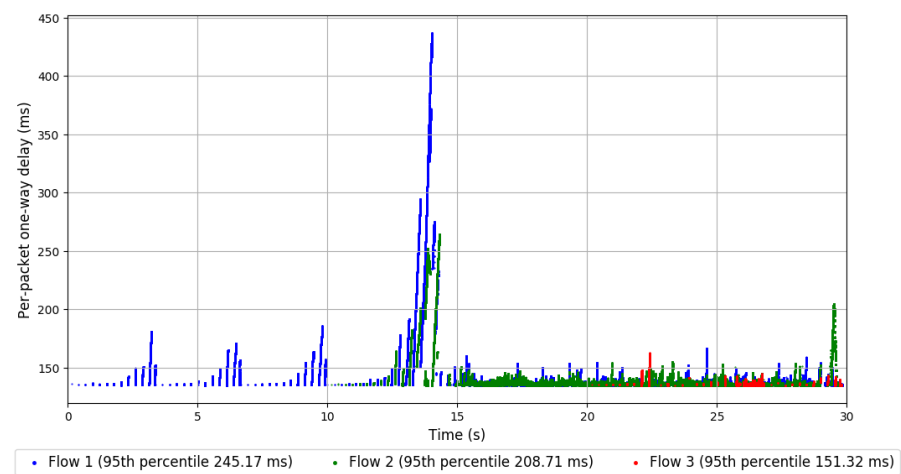
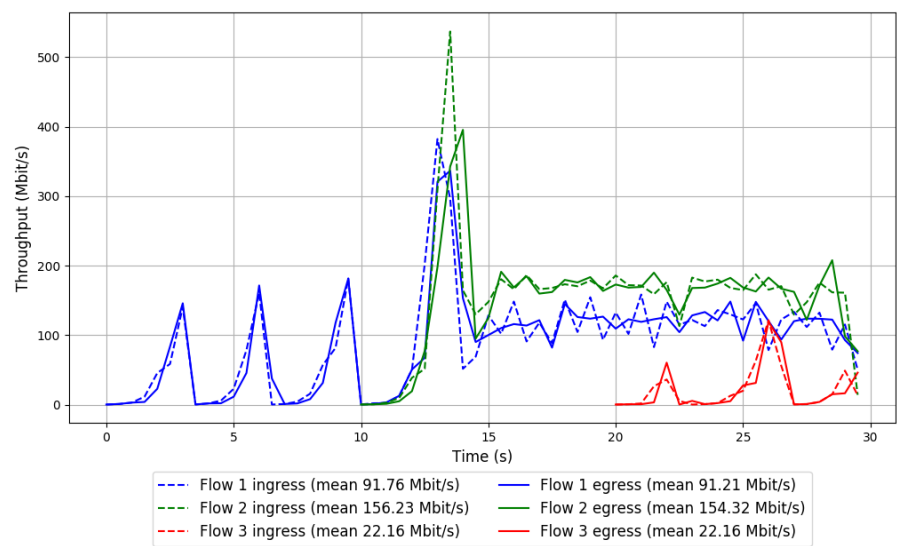
-- Flow 3:

Average throughput: 22.16 Mbit/s

95th percentile per-packet one-way delay: 151.317 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-17 09:30:29

End at: 2017-11-17 09:30:59

Below is generated by plot.py at 2017-11-17 12:01:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 237.44 Mbit/s

95th percentile per-packet one-way delay: 322.876 ms

Loss rate: 6.23%

-- Flow 1:

Average throughput: 73.38 Mbit/s

95th percentile per-packet one-way delay: 186.243 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 196.88 Mbit/s

95th percentile per-packet one-way delay: 271.181 ms

Loss rate: 2.52%

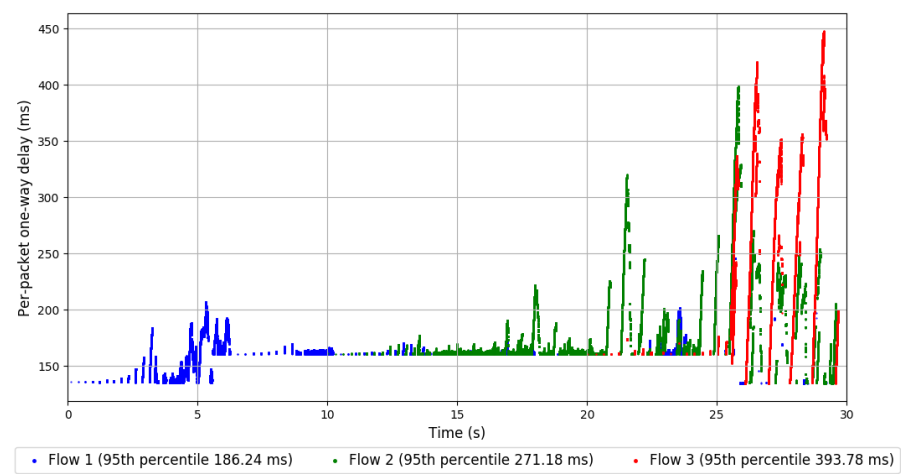
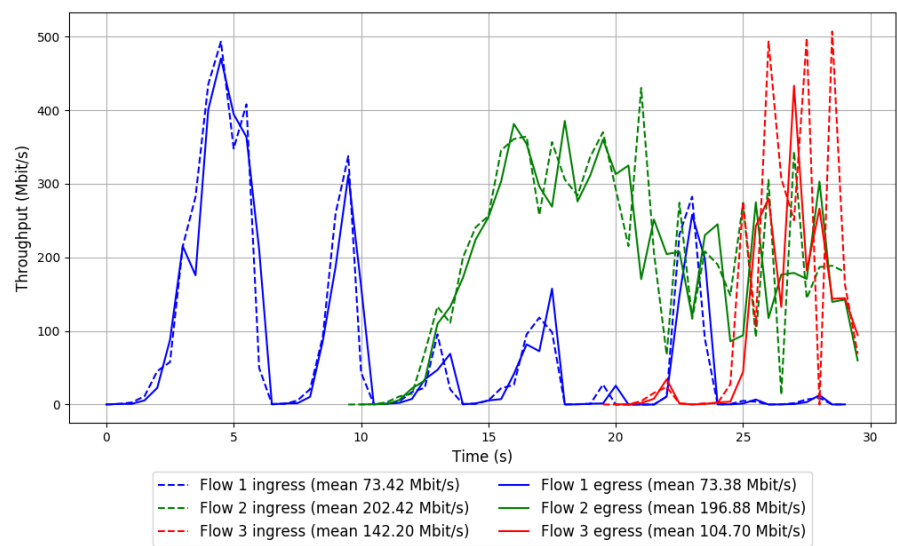
-- Flow 3:

Average throughput: 104.70 Mbit/s

95th percentile per-packet one-way delay: 393.780 ms

Loss rate: 26.57%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-11-17 09:44:24

End at: 2017-11-17 09:44:54

Below is generated by plot.py at 2017-11-17 12:06:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 385.61 Mbit/s

95th percentile per-packet one-way delay: 325.872 ms

Loss rate: 3.96%

-- Flow 1:

Average throughput: 226.54 Mbit/s

95th percentile per-packet one-way delay: 226.168 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 234.30 Mbit/s

95th percentile per-packet one-way delay: 358.380 ms

Loss rate: 8.48%

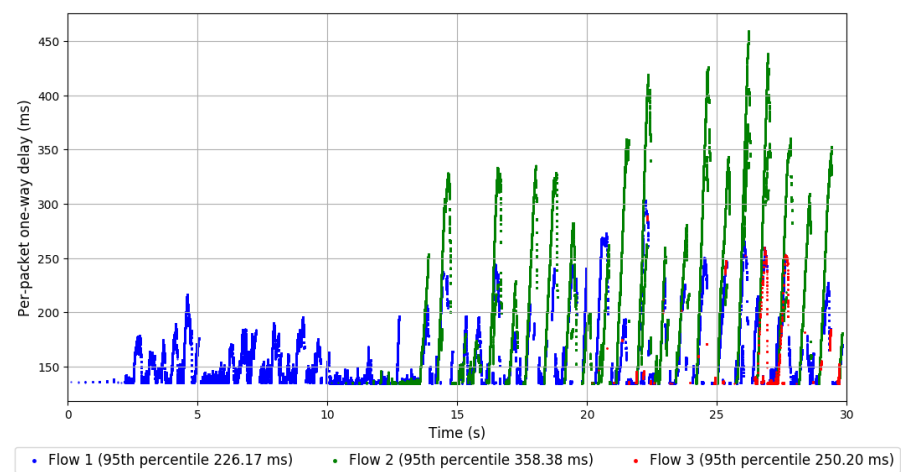
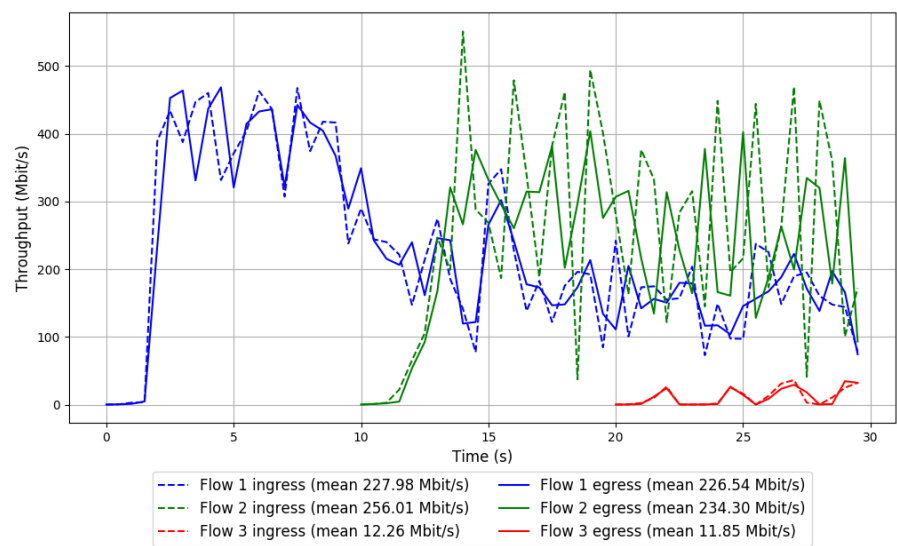
-- Flow 3:

Average throughput: 11.85 Mbit/s

95th percentile per-packet one-way delay: 250.200 ms

Loss rate: 3.17%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-17 09:58:44

End at: 2017-11-17 09:59:14

Below is generated by plot.py at 2017-11-17 12:06:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 247.47 Mbit/s

95th percentile per-packet one-way delay: 271.017 ms

Loss rate: 4.15%

-- Flow 1:

Average throughput: 105.71 Mbit/s

95th percentile per-packet one-way delay: 185.446 ms

Loss rate: 1.91%

-- Flow 2:

Average throughput: 171.45 Mbit/s

95th percentile per-packet one-way delay: 200.703 ms

Loss rate: 1.87%

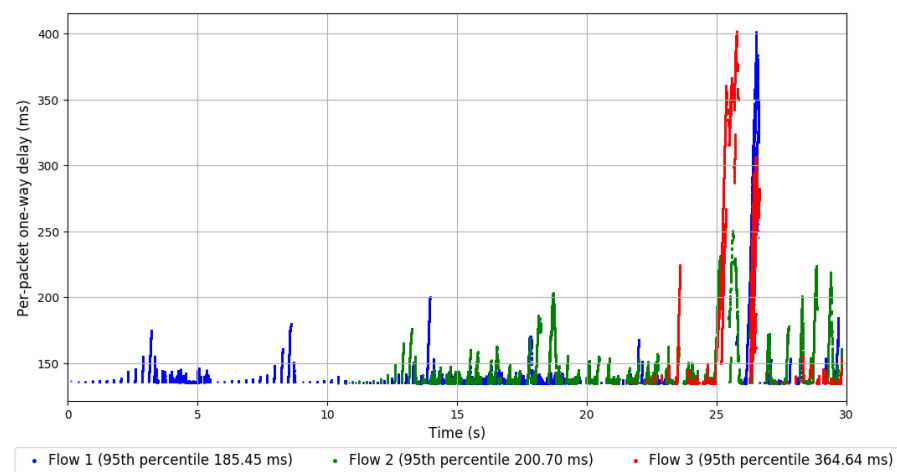
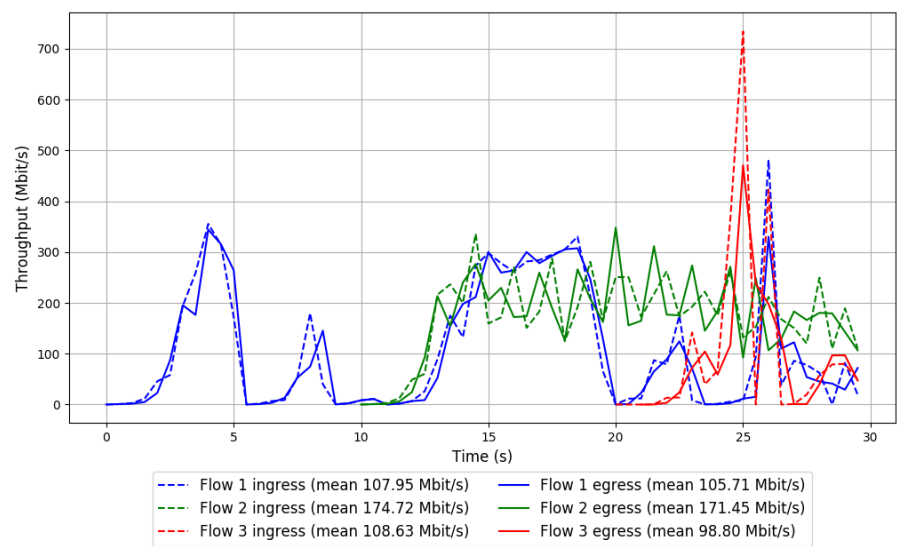
-- Flow 3:

Average throughput: 98.80 Mbit/s

95th percentile per-packet one-way delay: 364.638 ms

Loss rate: 18.51%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-11-17 10:12:38

End at: 2017-11-17 10:13:08

Below is generated by plot.py at 2017-11-17 12:06:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 287.48 Mbit/s

95th percentile per-packet one-way delay: 214.991 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 223.40 Mbit/s

95th percentile per-packet one-way delay: 217.389 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 63.14 Mbit/s

95th percentile per-packet one-way delay: 203.289 ms

Loss rate: 0.02%

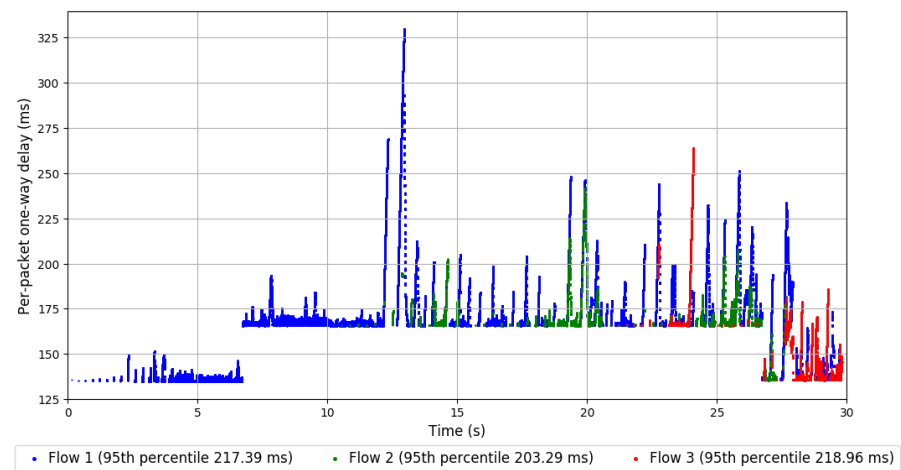
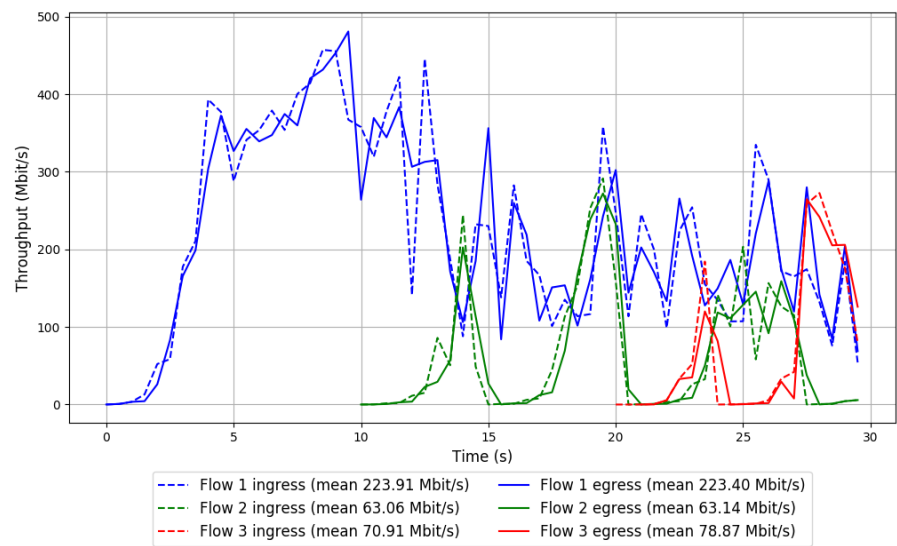
-- Flow 3:

Average throughput: 78.87 Mbit/s

95th percentile per-packet one-way delay: 218.955 ms

Loss rate: 0.56%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-11-17 10:26:09

End at: 2017-11-17 10:26:39

Below is generated by plot.py at 2017-11-17 12:06:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 143.34 Mbit/s

95th percentile per-packet one-way delay: 164.027 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 89.71 Mbit/s

95th percentile per-packet one-way delay: 167.794 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 47.87 Mbit/s

95th percentile per-packet one-way delay: 148.974 ms

Loss rate: 0.01%

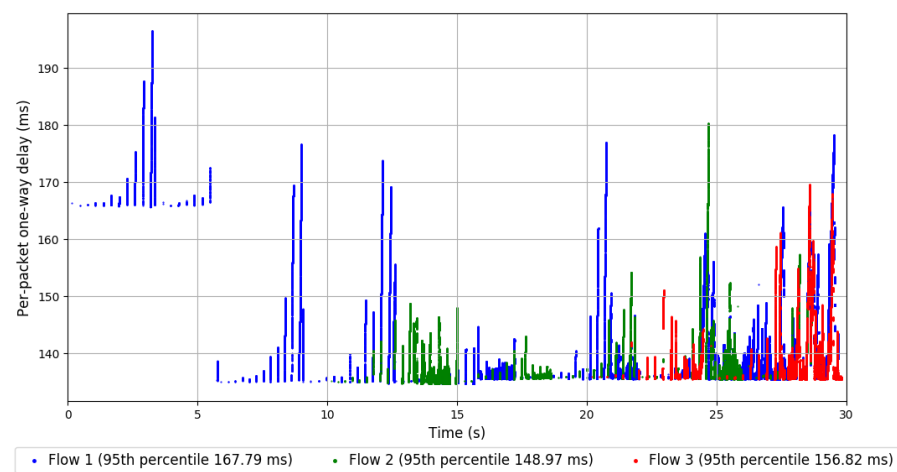
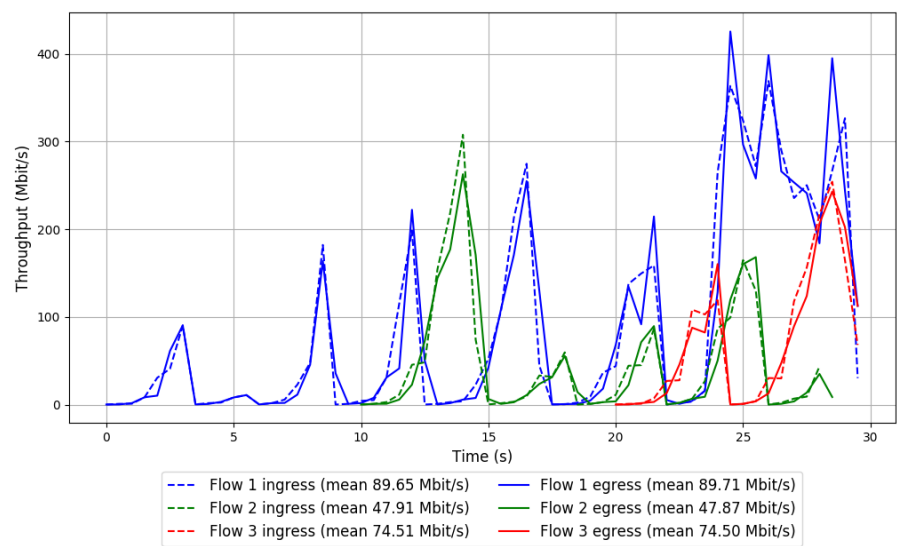
-- Flow 3:

Average throughput: 74.50 Mbit/s

95th percentile per-packet one-way delay: 156.823 ms

Loss rate: 0.03%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-17 10:40:00

End at: 2017-11-17 10:40:30

Below is generated by plot.py at 2017-11-17 12:06:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 158.49 Mbit/s

95th percentile per-packet one-way delay: 320.344 ms

Loss rate: 4.83%

-- Flow 1:

Average throughput: 104.13 Mbit/s

95th percentile per-packet one-way delay: 331.313 ms

Loss rate: 6.97%

-- Flow 2:

Average throughput: 71.32 Mbit/s

95th percentile per-packet one-way delay: 182.397 ms

Loss rate: 0.02%

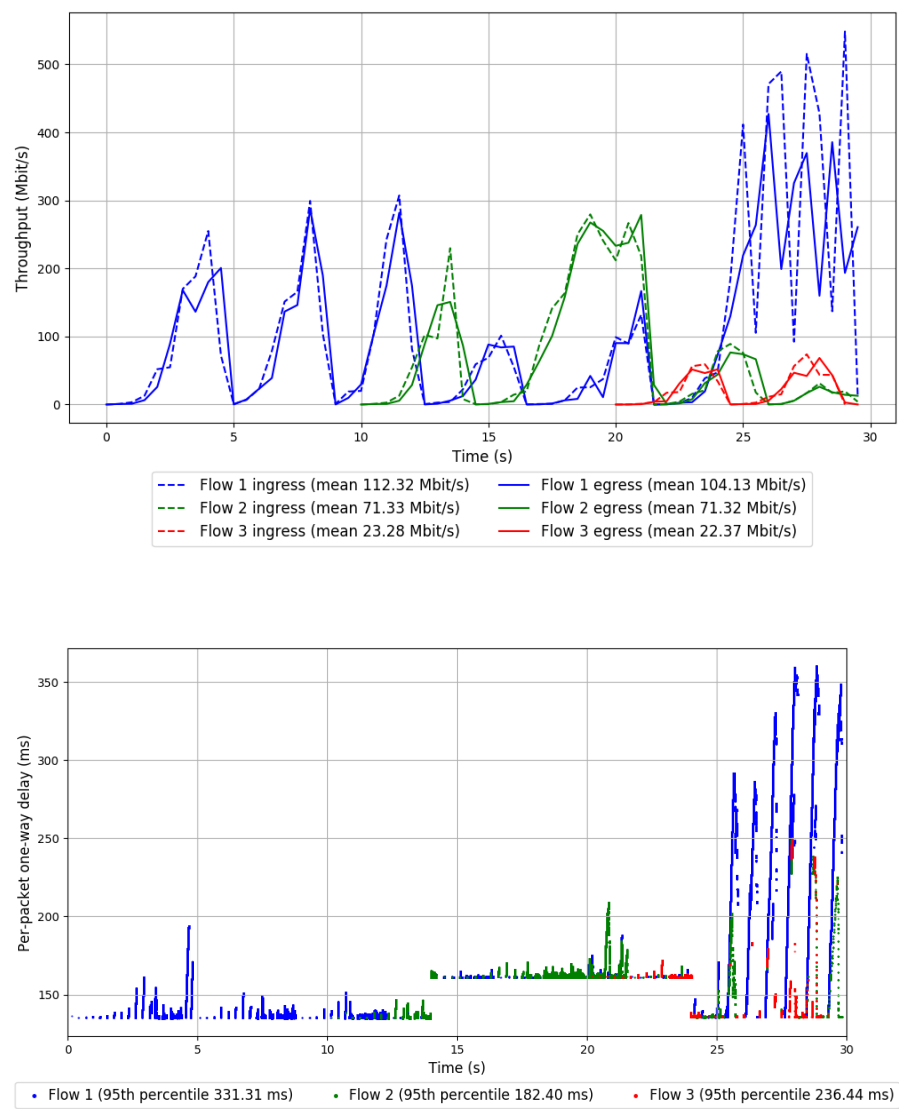
-- Flow 3:

Average throughput: 22.37 Mbit/s

95th percentile per-packet one-way delay: 236.436 ms

Loss rate: 3.30%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-11-17 08:32:26

End at: 2017-11-17 08:32:56

Below is generated by plot.py at 2017-11-17 12:06:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 116.62 Mbit/s

95th percentile per-packet one-way delay: 136.750 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 72.32 Mbit/s

95th percentile per-packet one-way delay: 135.575 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 55.62 Mbit/s

95th percentile per-packet one-way delay: 136.872 ms

Loss rate: 0.00%

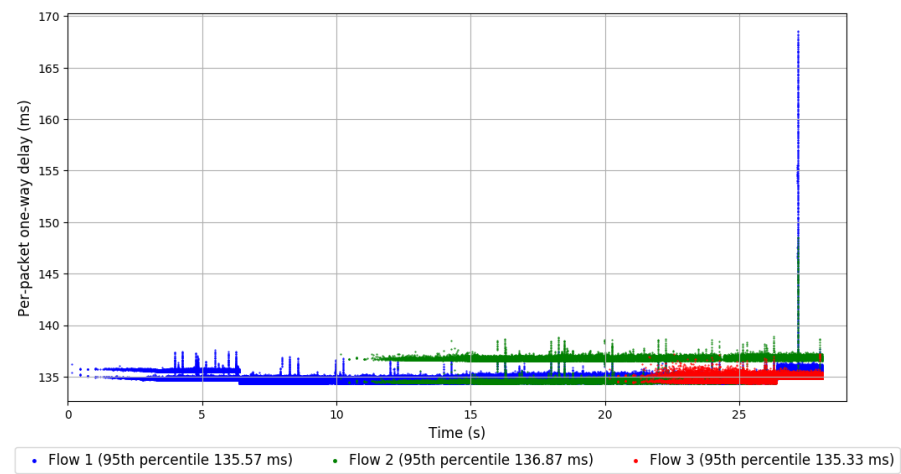
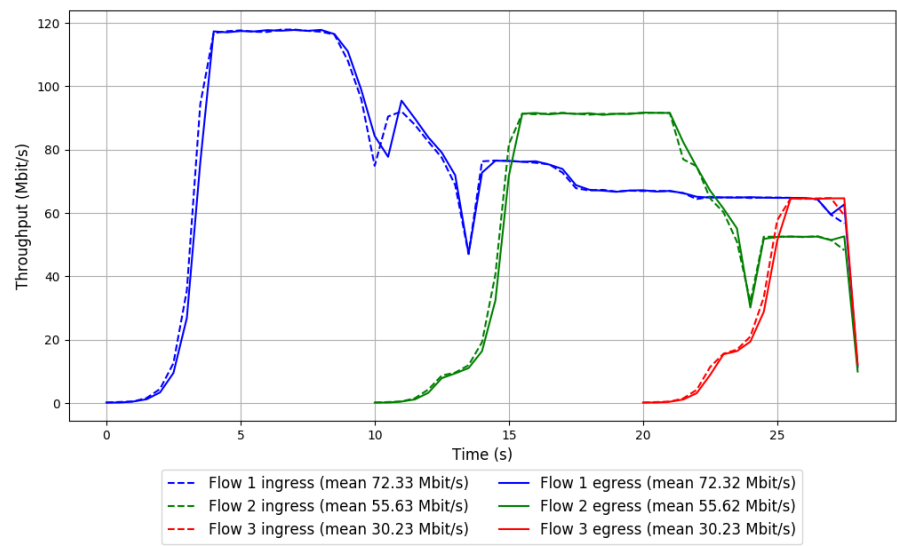
-- Flow 3:

Average throughput: 30.23 Mbit/s

95th percentile per-packet one-way delay: 135.330 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-11-17 08:46:39

End at: 2017-11-17 08:47:09

Below is generated by plot.py at 2017-11-17 12:06:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.39 Mbit/s

95th percentile per-packet one-way delay: 136.550 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 136.612 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.00 Mbit/s

95th percentile per-packet one-way delay: 136.619 ms

Loss rate: 0.00%

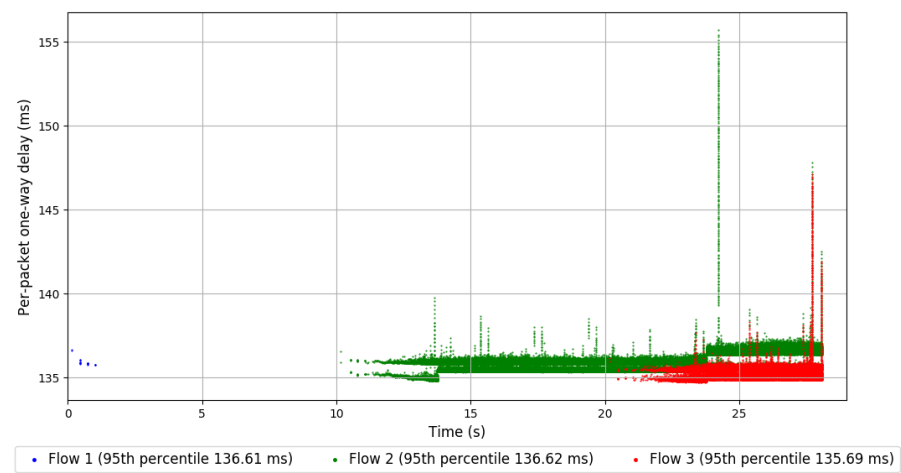
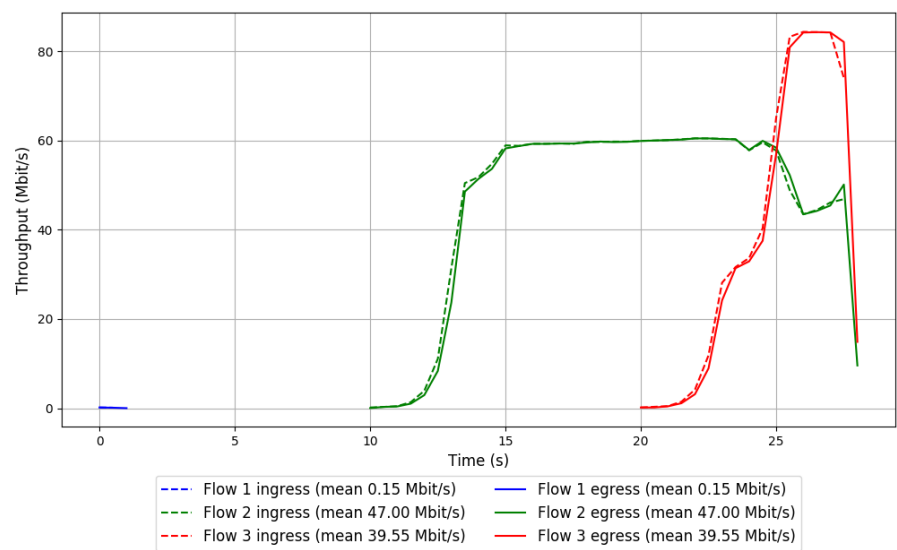
-- Flow 3:

Average throughput: 39.55 Mbit/s

95th percentile per-packet one-way delay: 135.692 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-17 09:00:40

End at: 2017-11-17 09:01:10

Below is generated by plot.py at 2017-11-17 12:06:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.77 Mbit/s

95th percentile per-packet one-way delay: 136.779 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.79 Mbit/s

95th percentile per-packet one-way delay: 136.680 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 54.85 Mbit/s

95th percentile per-packet one-way delay: 136.874 ms

Loss rate: 0.00%

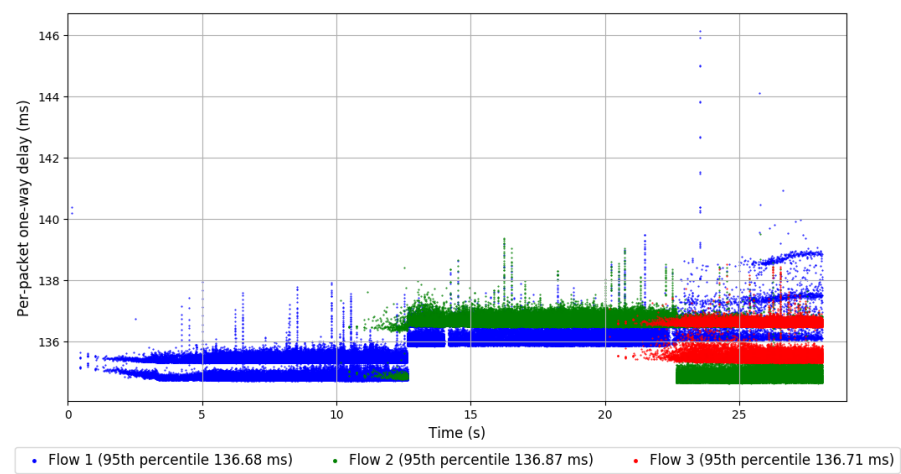
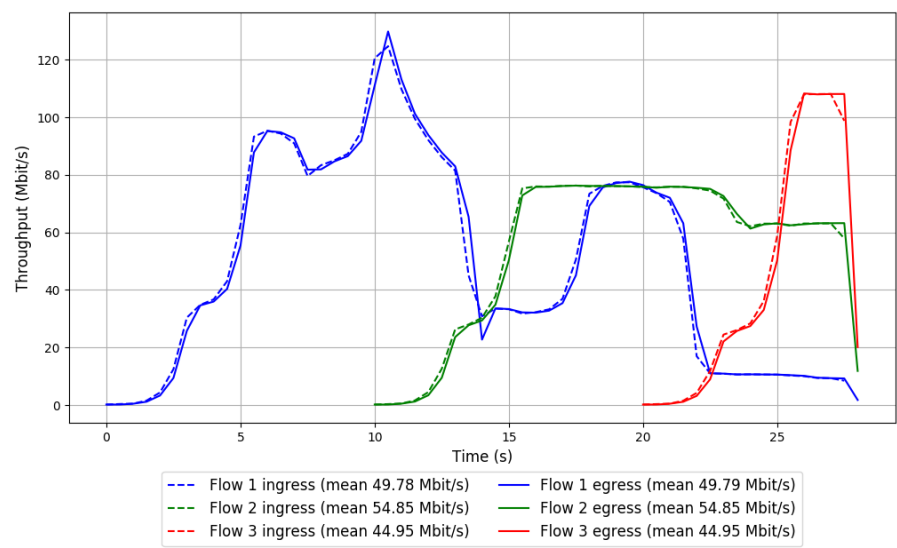
-- Flow 3:

Average throughput: 44.95 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-17 09:14:31

End at: 2017-11-17 09:15:01

Below is generated by plot.py at 2017-11-17 12:06:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.21 Mbit/s

95th percentile per-packet one-way delay: 161.042 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 31.75 Mbit/s

95th percentile per-packet one-way delay: 160.804 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 6.76 Mbit/s

95th percentile per-packet one-way delay: 161.001 ms

Loss rate: 0.13%

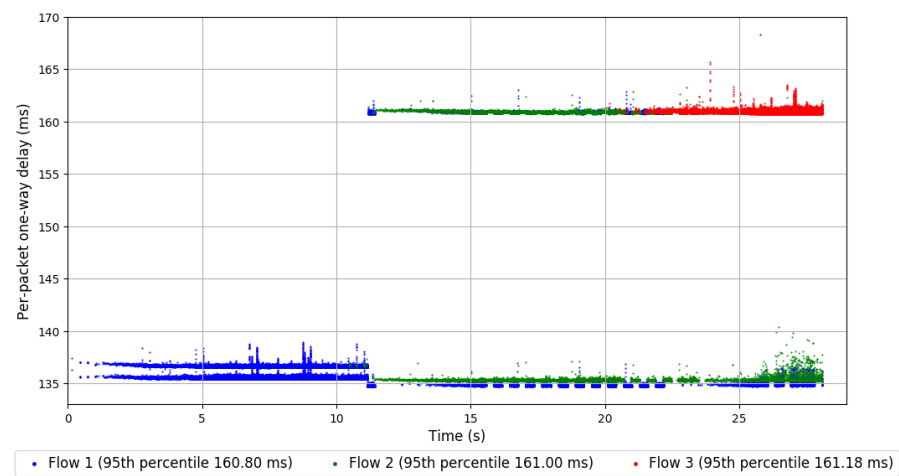
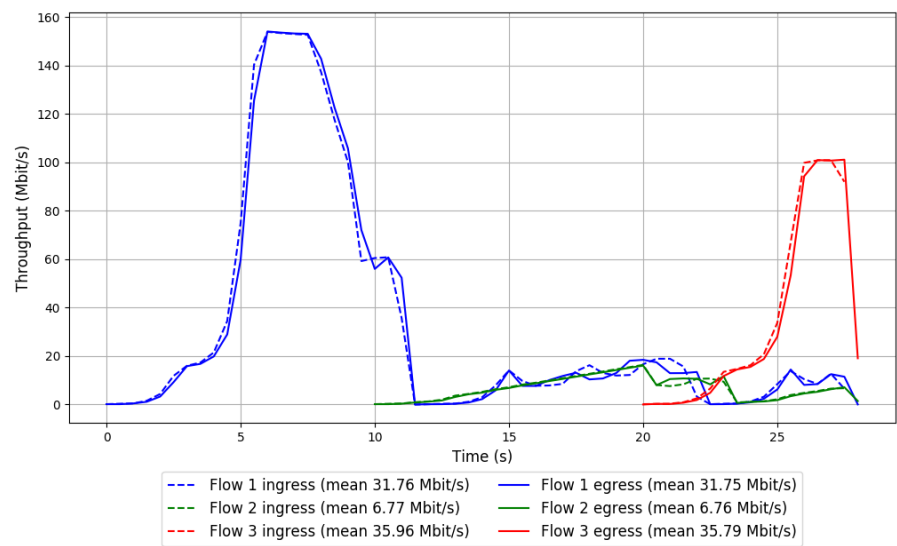
-- Flow 3:

Average throughput: 35.79 Mbit/s

95th percentile per-packet one-way delay: 161.179 ms

Loss rate: 0.77%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-17 09:27:52

End at: 2017-11-17 09:28:22

Below is generated by plot.py at 2017-11-17 12:06:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.31 Mbit/s

95th percentile per-packet one-way delay: 136.824 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 50.36 Mbit/s

95th percentile per-packet one-way delay: 136.821 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 34.89 Mbit/s

95th percentile per-packet one-way delay: 136.897 ms

Loss rate: 0.00%

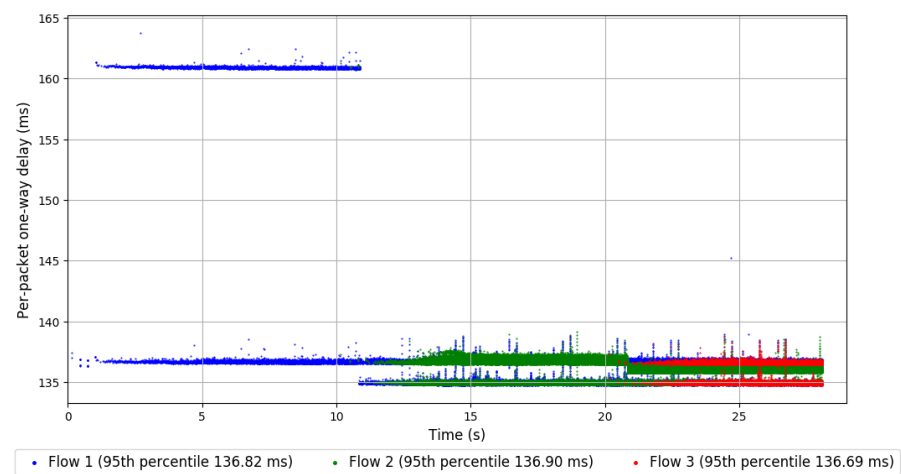
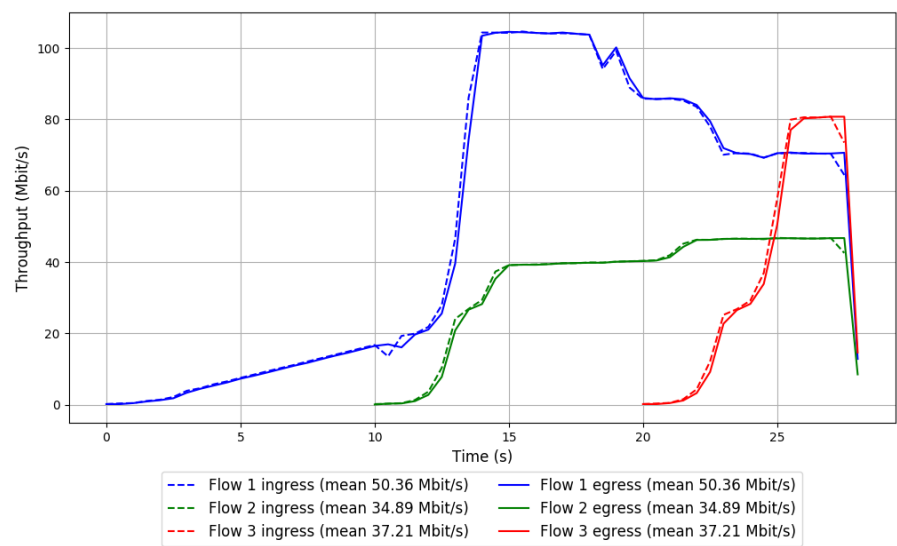
-- Flow 3:

Average throughput: 37.21 Mbit/s

95th percentile per-packet one-way delay: 136.687 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-17 09:41:48

End at: 2017-11-17 09:42:18

Below is generated by plot.py at 2017-11-17 12:06:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.05 Mbit/s

95th percentile per-packet one-way delay: 136.670 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 45.13 Mbit/s

95th percentile per-packet one-way delay: 135.963 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.23 Mbit/s

95th percentile per-packet one-way delay: 136.744 ms

Loss rate: 0.00%

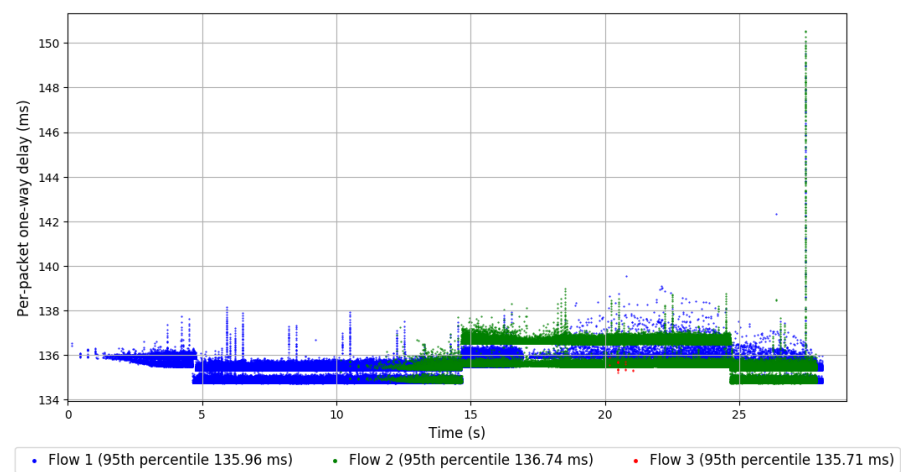
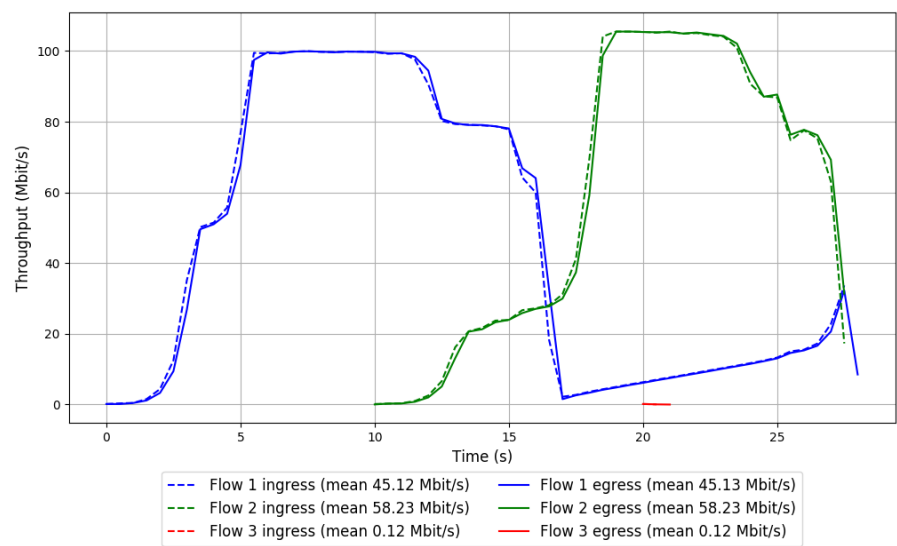
-- Flow 3:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 135.709 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-11-17 09:56:09

End at: 2017-11-17 09:56:39

Below is generated by plot.py at 2017-11-17 12:06:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.03 Mbit/s

95th percentile per-packet one-way delay: 136.360 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 26.24 Mbit/s

95th percentile per-packet one-way delay: 136.214 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.34 Mbit/s

95th percentile per-packet one-way delay: 136.406 ms

Loss rate: 0.00%

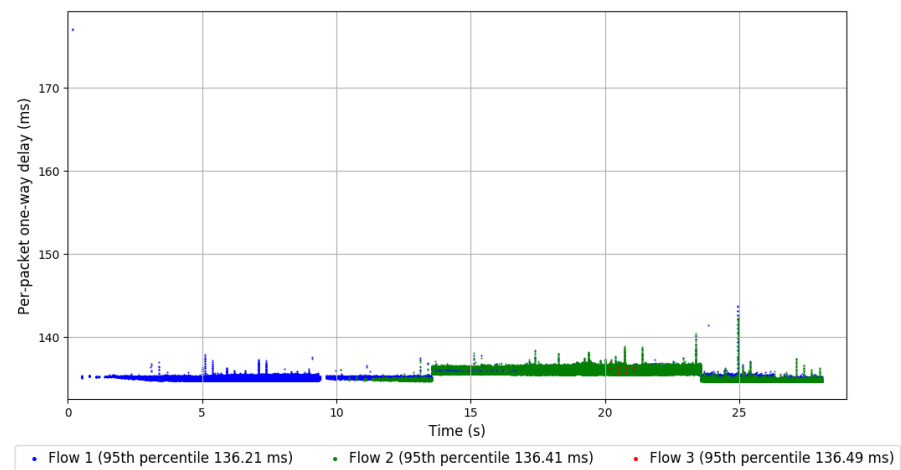
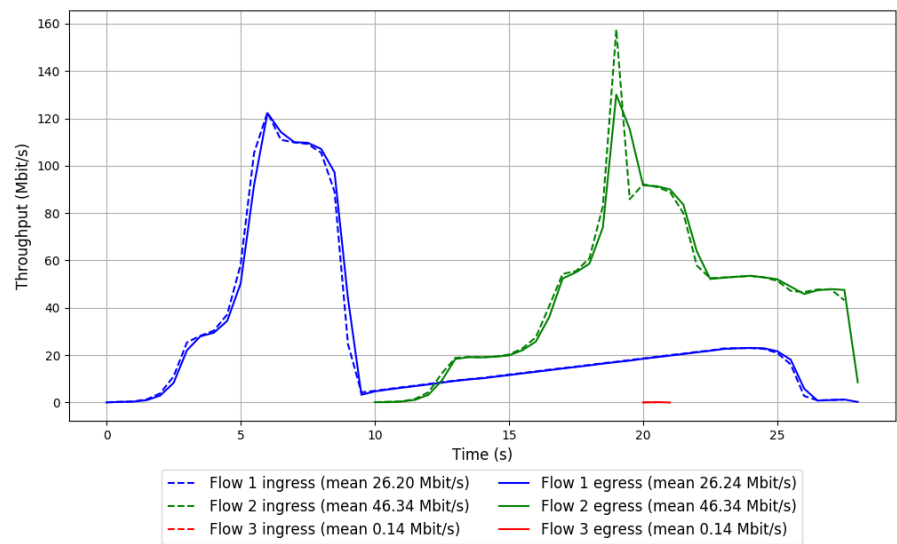
-- Flow 3:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 136.487 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-11-17 10:10:04

End at: 2017-11-17 10:10:34

Below is generated by plot.py at 2017-11-17 12:06:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.63 Mbit/s

95th percentile per-packet one-way delay: 166.213 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 46.99 Mbit/s

95th percentile per-packet one-way delay: 166.215 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 0.12 Mbit/s

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

Loss rate: 0.00%

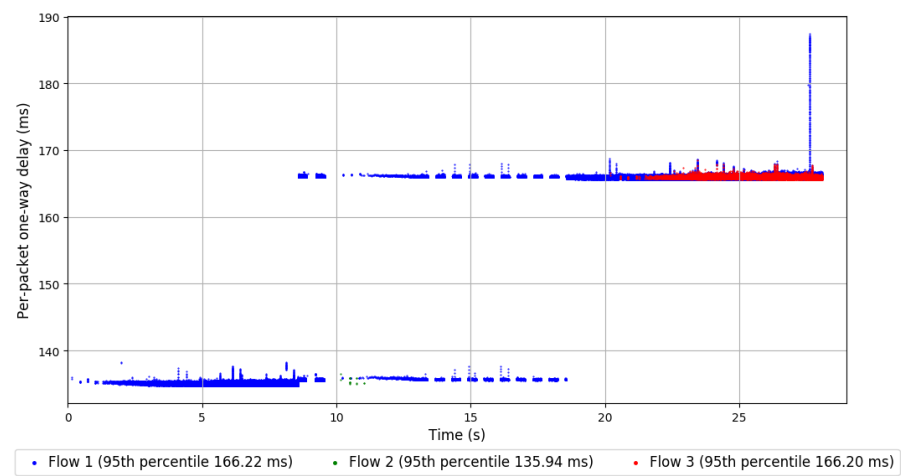
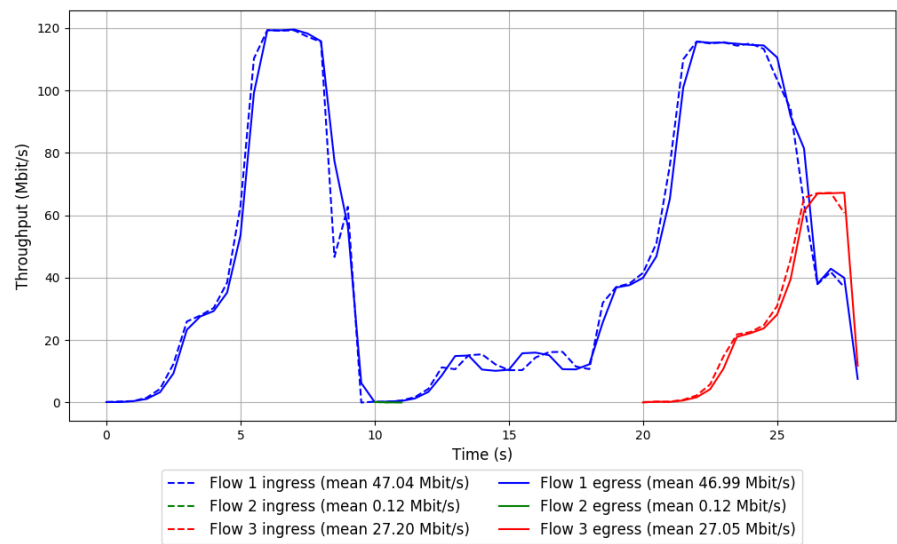
-- Flow 3:

Average throughput: 27.05 Mbit/s

95th percentile per-packet one-way delay: 166.196 ms

Loss rate: 0.94%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-11-17 10:23:38

End at: 2017-11-17 10:24:08

Below is generated by plot.py at 2017-11-17 12:06:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 32.98 Mbit/s

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

Loss rate: 0.01%

-- Flow 1:

Average throughput: 32.97 Mbit/s

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

Loss rate: 0.01%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 135.947 ms

Loss rate: 0.00%

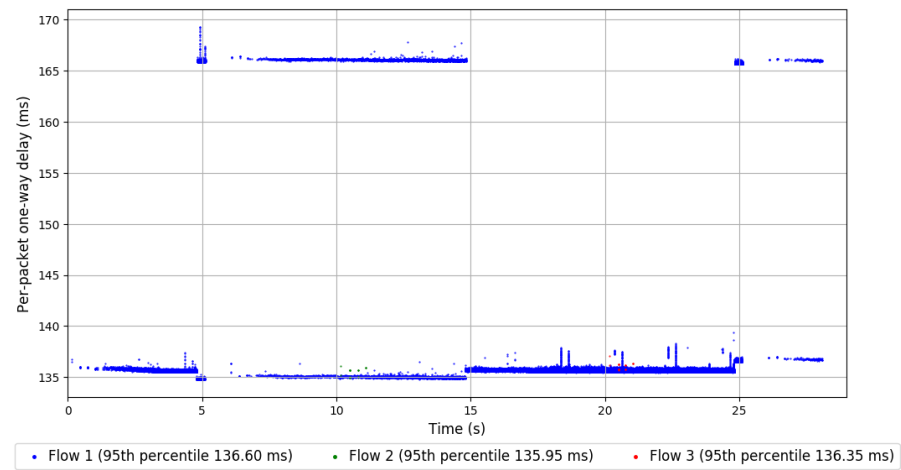
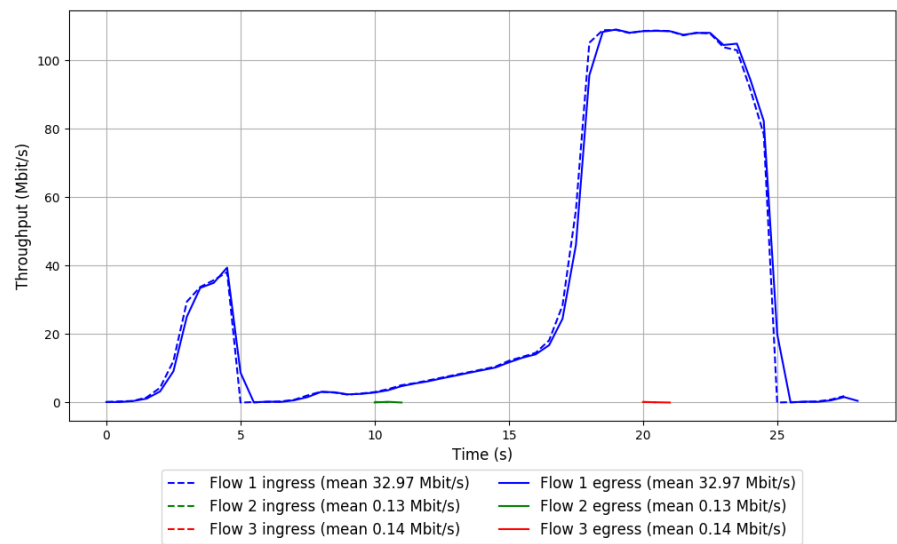
-- Flow 3:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 136.353 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-17 10:37:29

End at: 2017-11-17 10:37:59

Below is generated by plot.py at 2017-11-17 12:06:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 34.25 Mbit/s

95th percentile per-packet one-way delay: 161.062 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 53.81 Mbit/s

95th percentile per-packet one-way delay: 136.508 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.40 Mbit/s

95th percentile per-packet one-way delay: 161.210 ms

Loss rate: 0.04%

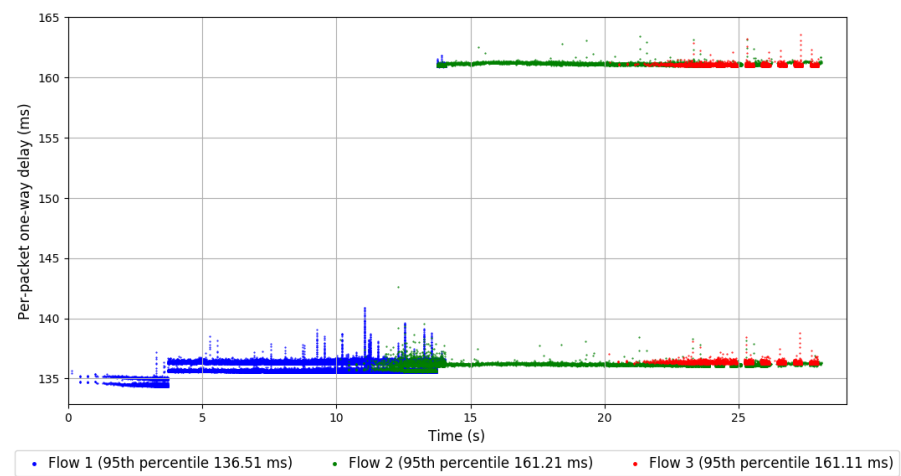
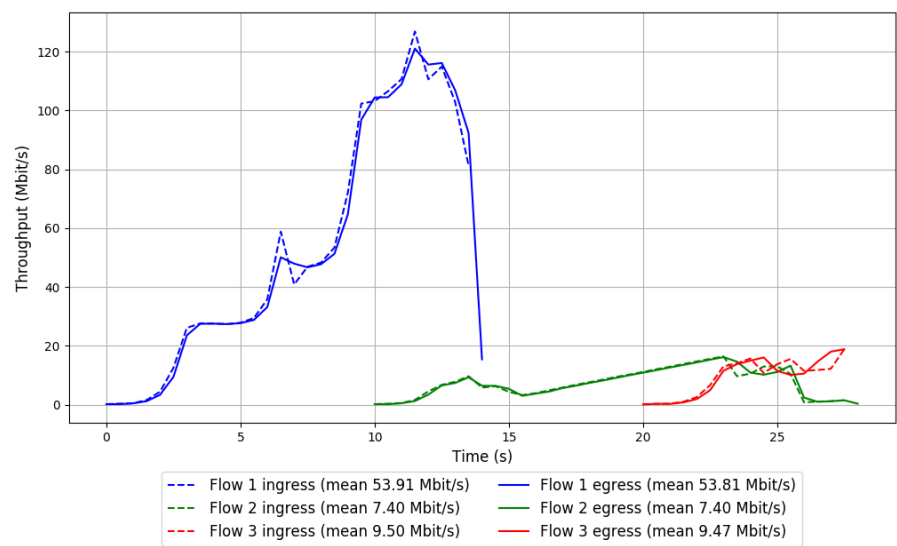
-- Flow 3:

Average throughput: 9.47 Mbit/s

95th percentile per-packet one-way delay: 161.110 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

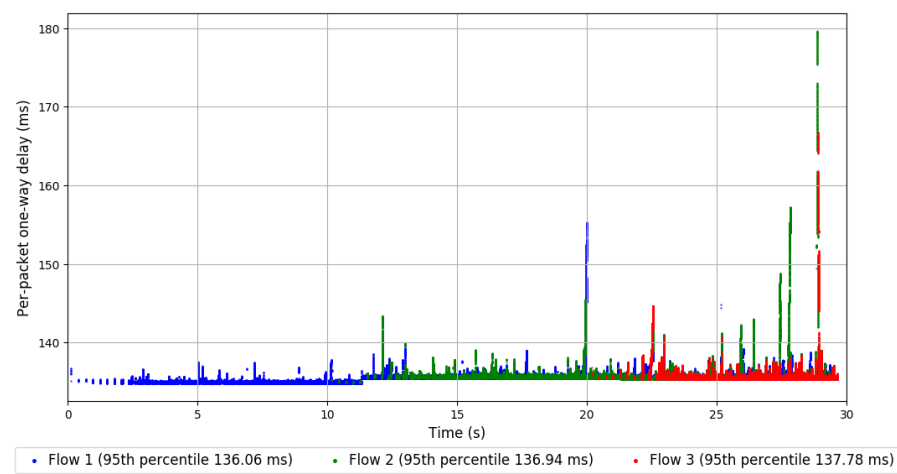
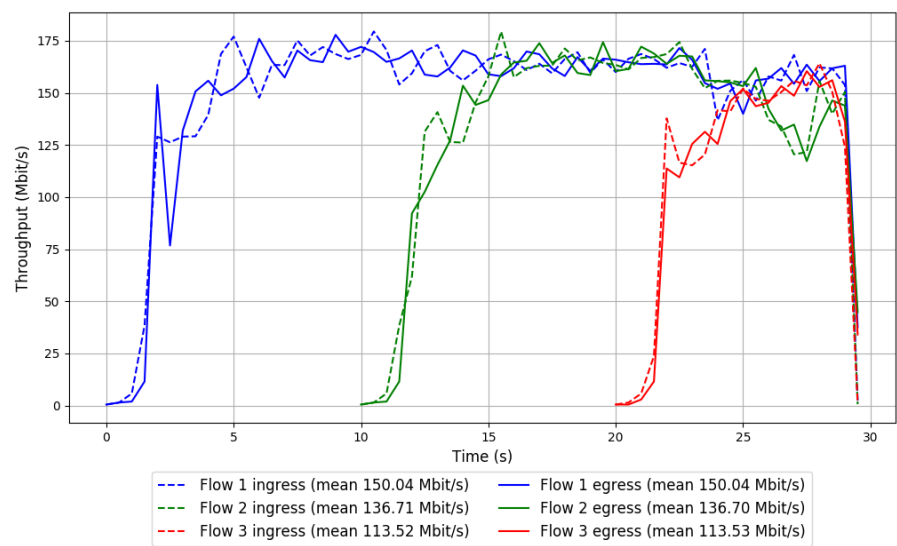


```
Run 1: Statistics of Indigo

Start at: 2017-11-17 08:37:13
End at: 2017-11-17 08:37:43

# Below is generated by plot.py at 2017-11-17 12:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 276.68 Mbit/s
95th percentile per-packet one-way delay: 136.457 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 150.04 Mbit/s
95th percentile per-packet one-way delay: 136.065 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 136.70 Mbit/s
95th percentile per-packet one-way delay: 136.939 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 113.53 Mbit/s
95th percentile per-packet one-way delay: 137.775 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo — Data Link

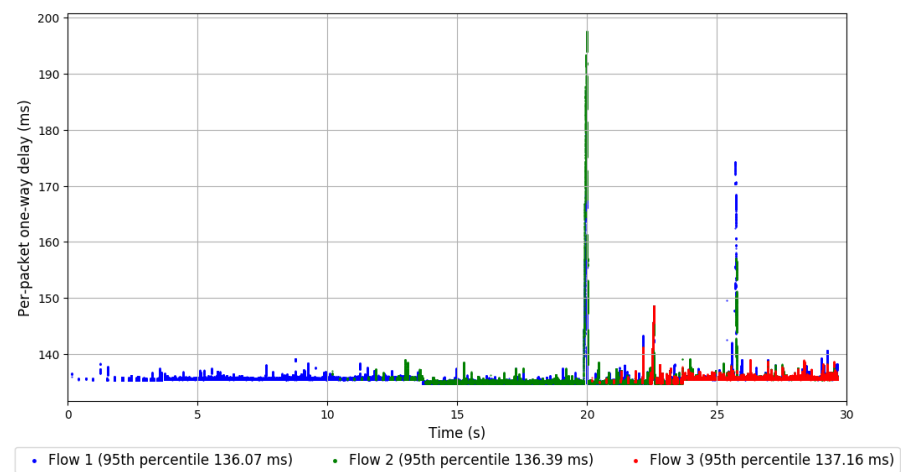
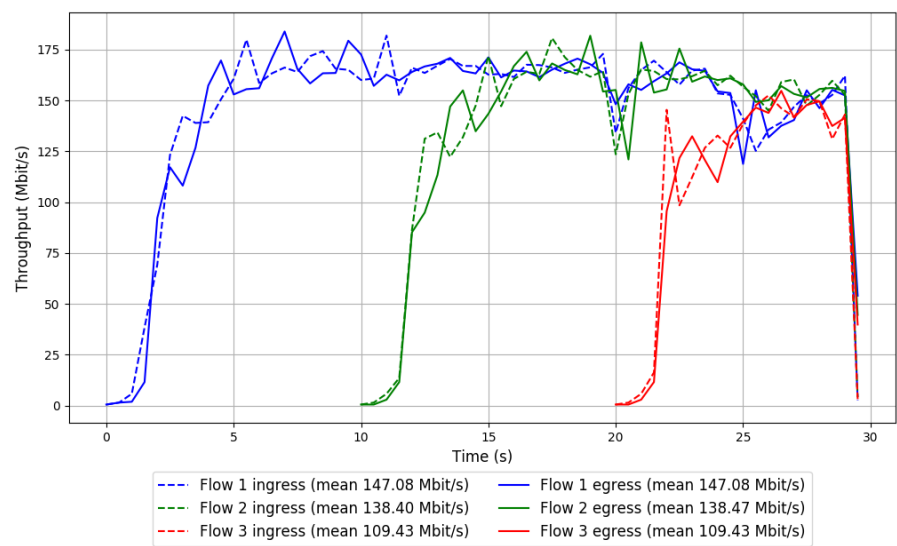


```
Run 2: Statistics of Indigo

Start at: 2017-11-17 08:51:20
End at: 2017-11-17 08:51:50

# Below is generated by plot.py at 2017-11-17 12:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 273.43 Mbit/s
95th percentile per-packet one-way delay: 136.304 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 147.08 Mbit/s
95th percentile per-packet one-way delay: 136.070 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 138.47 Mbit/s
95th percentile per-packet one-way delay: 136.388 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 109.43 Mbit/s
95th percentile per-packet one-way delay: 137.164 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-17 09:05:24

End at: 2017-11-17 09:05:54

Below is generated by plot.py at 2017-11-17 12:10:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 279.52 Mbit/s

95th percentile per-packet one-way delay: 135.654 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 148.50 Mbit/s

95th percentile per-packet one-way delay: 135.721 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 142.34 Mbit/s

95th percentile per-packet one-way delay: 135.521 ms

Loss rate: 0.00%

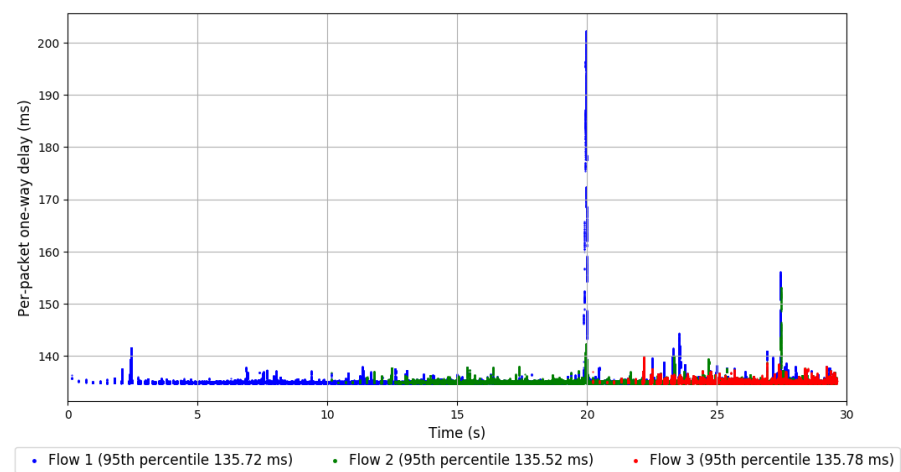
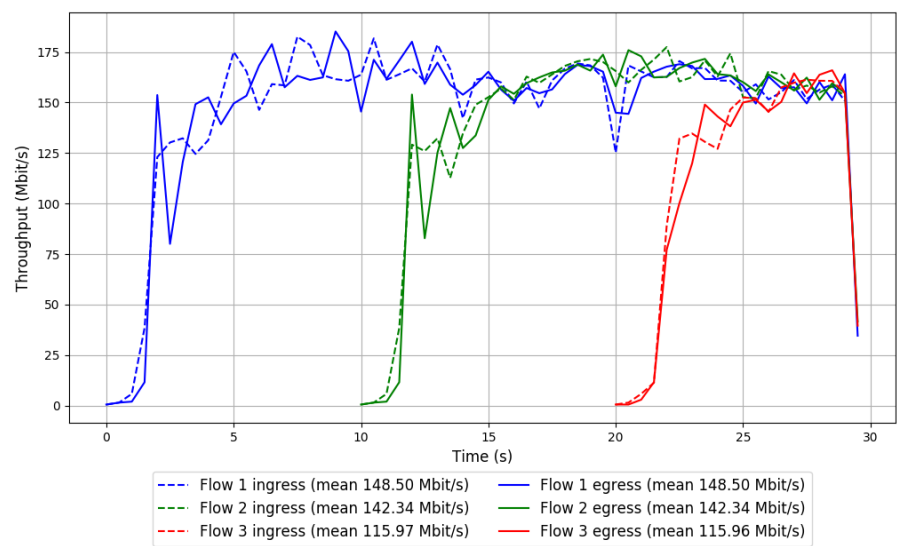
-- Flow 3:

Average throughput: 115.96 Mbit/s

95th percentile per-packet one-way delay: 135.776 ms

Loss rate: 0.01%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-17 09:19:08

End at: 2017-11-17 09:19:38

Below is generated by plot.py at 2017-11-17 12:10:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 272.95 Mbit/s

95th percentile per-packet one-way delay: 136.819 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 146.18 Mbit/s

95th percentile per-packet one-way delay: 136.670 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 138.15 Mbit/s

95th percentile per-packet one-way delay: 136.854 ms

Loss rate: 0.00%

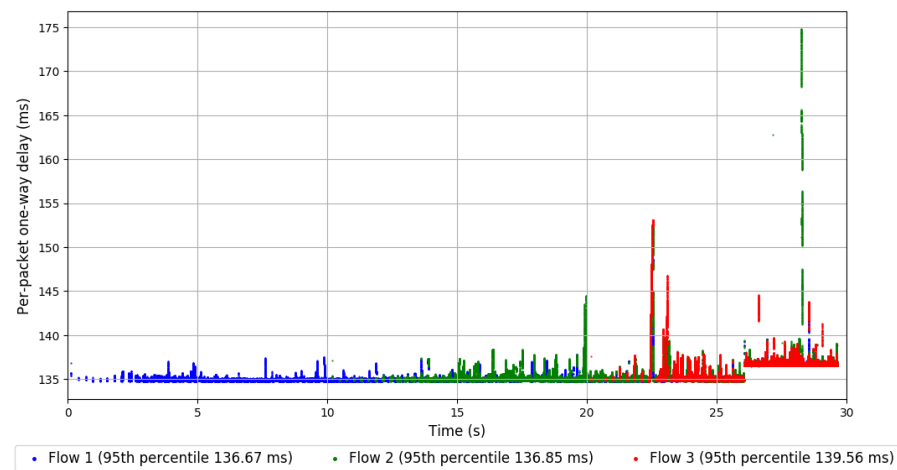
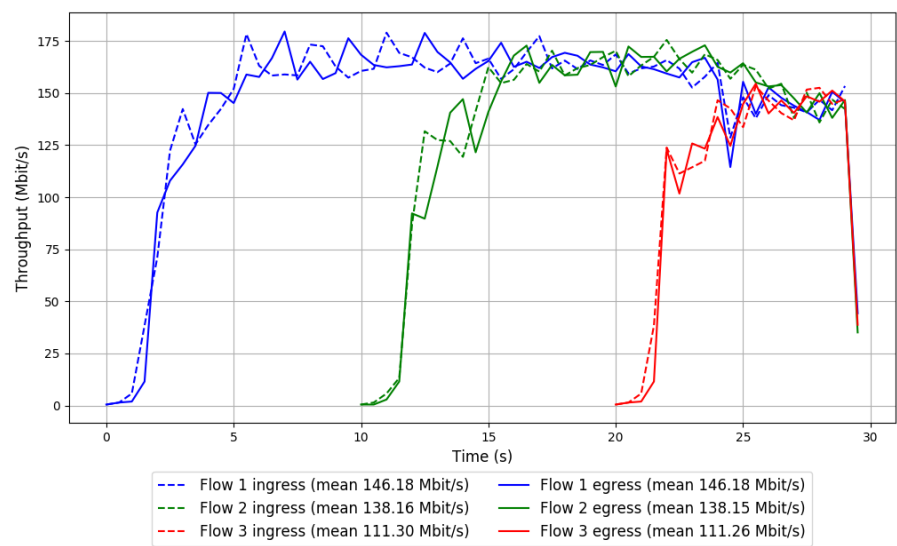
-- Flow 3:

Average throughput: 111.26 Mbit/s

95th percentile per-packet one-way delay: 139.561 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-11-17 09:32:36

End at: 2017-11-17 09:33:06

Below is generated by plot.py at 2017-11-17 12:10:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 202.25 Mbit/s

95th percentile per-packet one-way delay: 161.210 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 78.55 Mbit/s

95th percentile per-packet one-way delay: 161.044 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 135.63 Mbit/s

95th percentile per-packet one-way delay: 161.481 ms

Loss rate: 0.00%

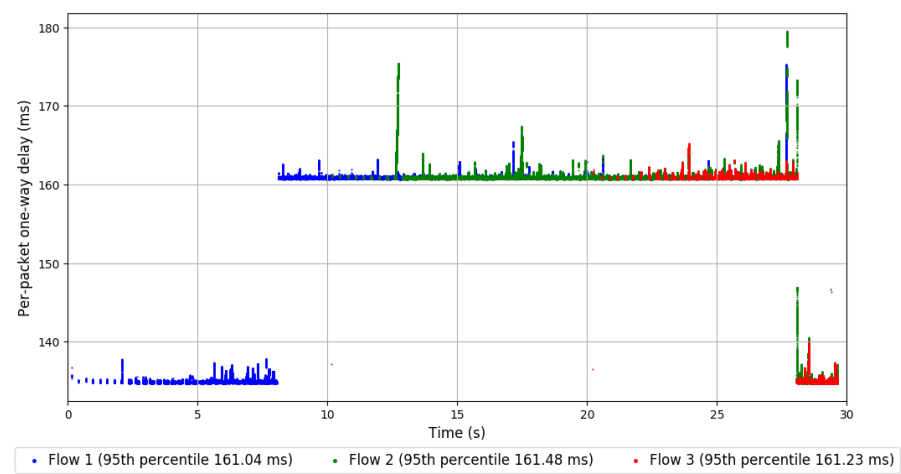
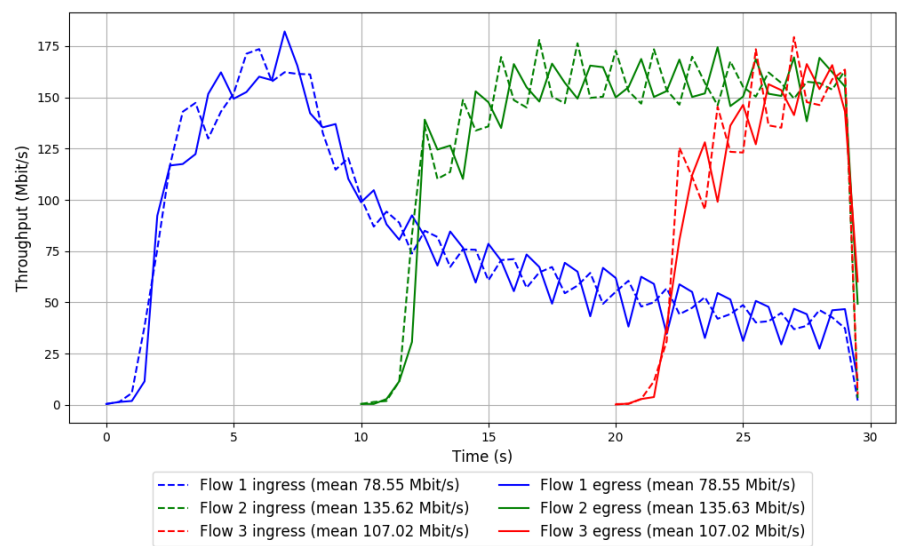
-- Flow 3:

Average throughput: 107.02 Mbit/s

95th percentile per-packet one-way delay: 161.230 ms

Loss rate: 0.02%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-17 09:46:41

End at: 2017-11-17 09:47:11

Below is generated by plot.py at 2017-11-17 12:10:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 239.09 Mbit/s

95th percentile per-packet one-way delay: 135.878 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 109.23 Mbit/s

95th percentile per-packet one-way delay: 135.833 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 140.88 Mbit/s

95th percentile per-packet one-way delay: 135.960 ms

Loss rate: 0.00%

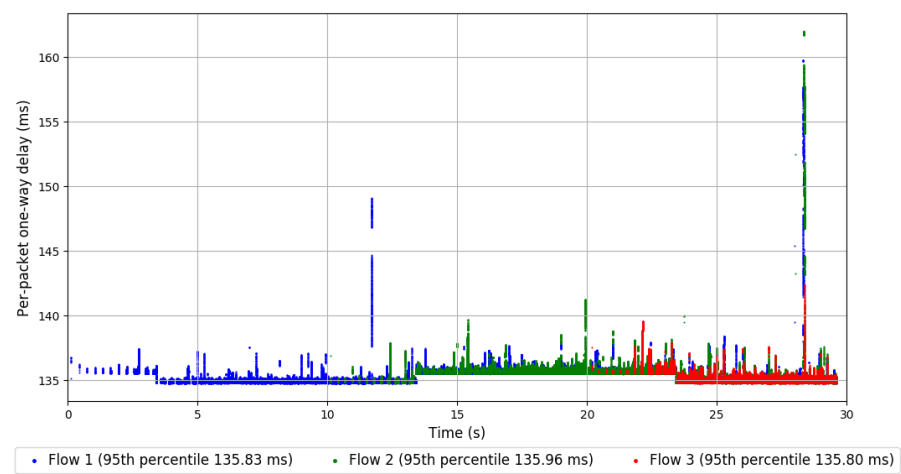
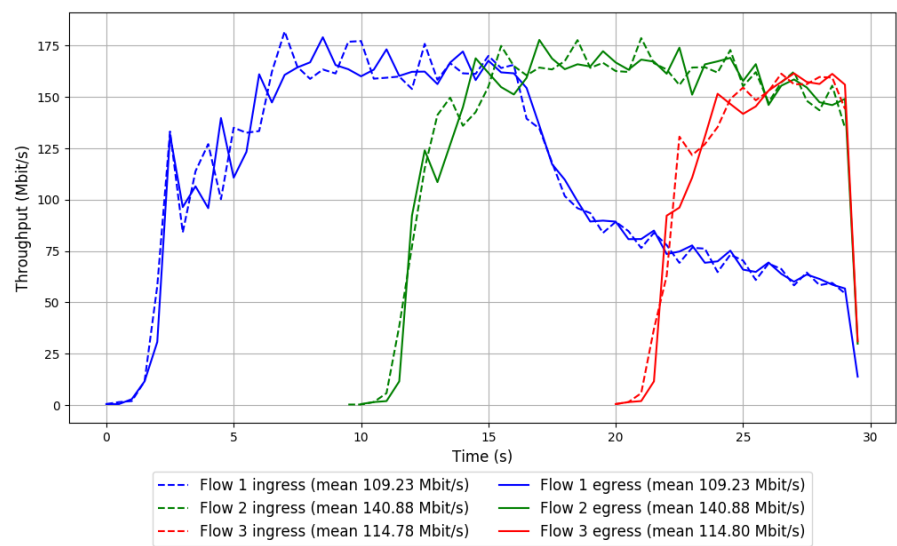
-- Flow 3:

Average throughput: 114.80 Mbit/s

95th percentile per-packet one-way delay: 135.801 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-11-17 10:00:50

End at: 2017-11-17 10:01:20

Below is generated by plot.py at 2017-11-17 12:10:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 237.97 Mbit/s

95th percentile per-packet one-way delay: 135.630 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 107.48 Mbit/s

95th percentile per-packet one-way delay: 135.670 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 144.04 Mbit/s

95th percentile per-packet one-way delay: 135.395 ms

Loss rate: 0.00%

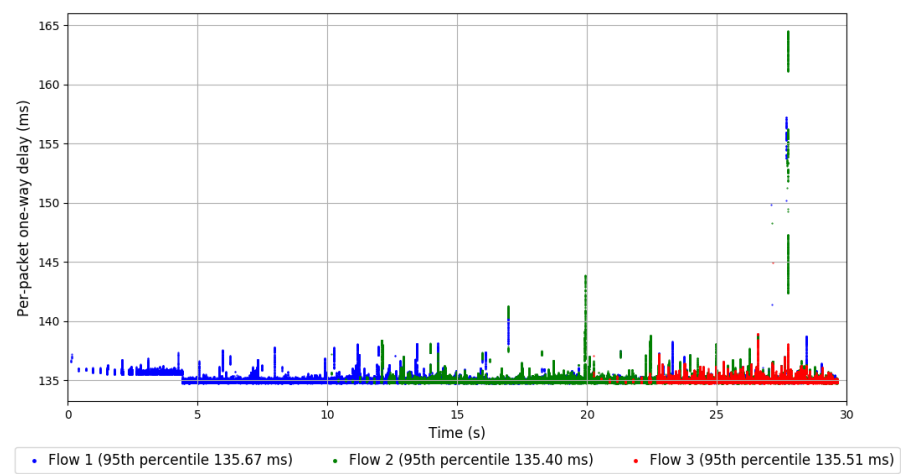
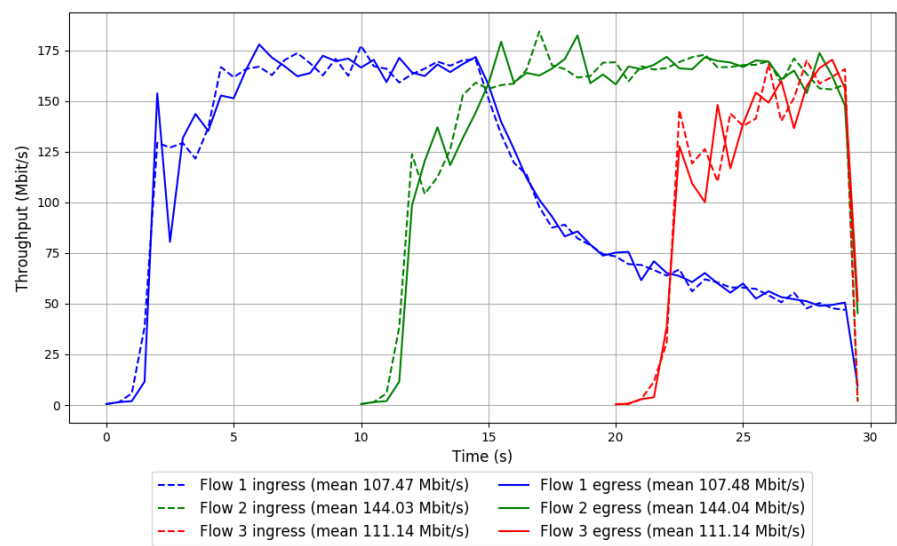
-- Flow 3:

Average throughput: 111.14 Mbit/s

95th percentile per-packet one-way delay: 135.512 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-17 10:14:48

End at: 2017-11-17 10:15:18

Below is generated by plot.py at 2017-11-17 12:10:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 225.88 Mbit/s

95th percentile per-packet one-way delay: 165.811 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 95.98 Mbit/s

95th percentile per-packet one-way delay: 165.833 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 134.72 Mbit/s

95th percentile per-packet one-way delay: 165.817 ms

Loss rate: 0.00%

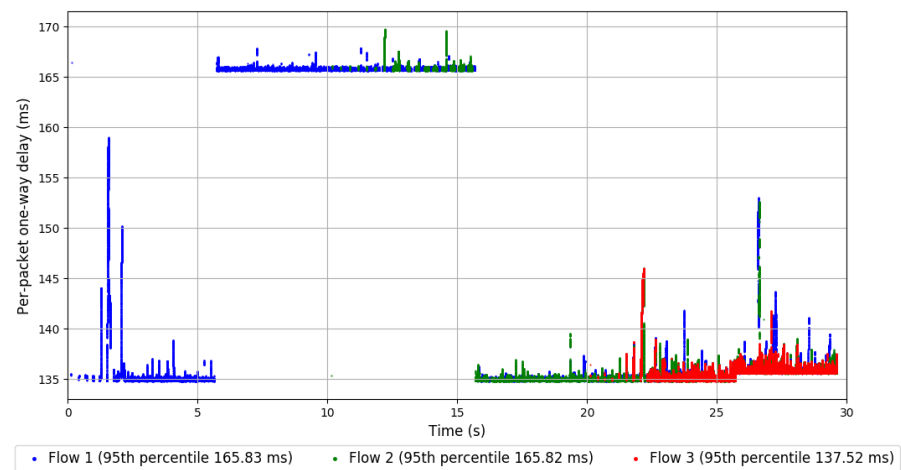
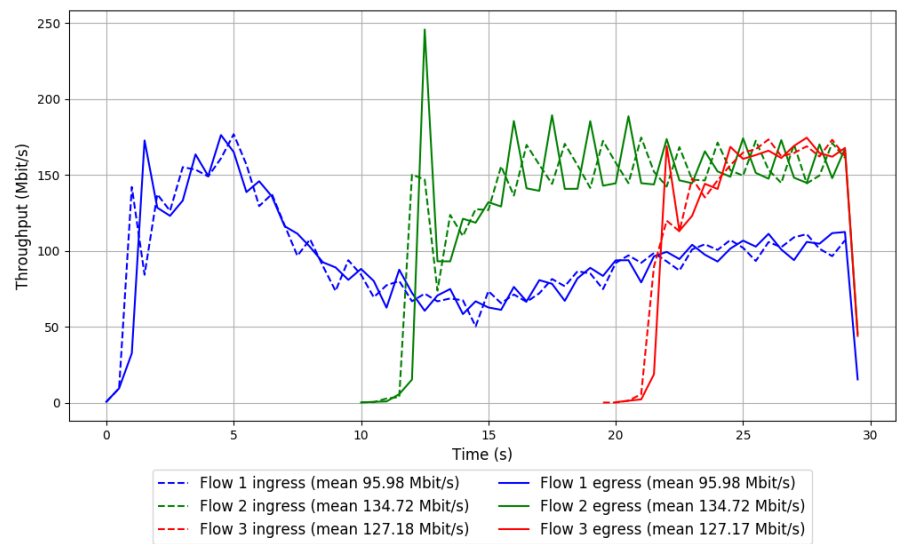
-- Flow 3:

Average throughput: 127.17 Mbit/s

95th percentile per-packet one-way delay: 137.520 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-17 10:28:09

End at: 2017-11-17 10:28:40

Below is generated by plot.py at 2017-11-17 12:13:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 225.66 Mbit/s

95th percentile per-packet one-way delay: 165.843 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 101.46 Mbit/s

95th percentile per-packet one-way delay: 165.919 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 133.25 Mbit/s

95th percentile per-packet one-way delay: 165.772 ms

Loss rate: 0.13%

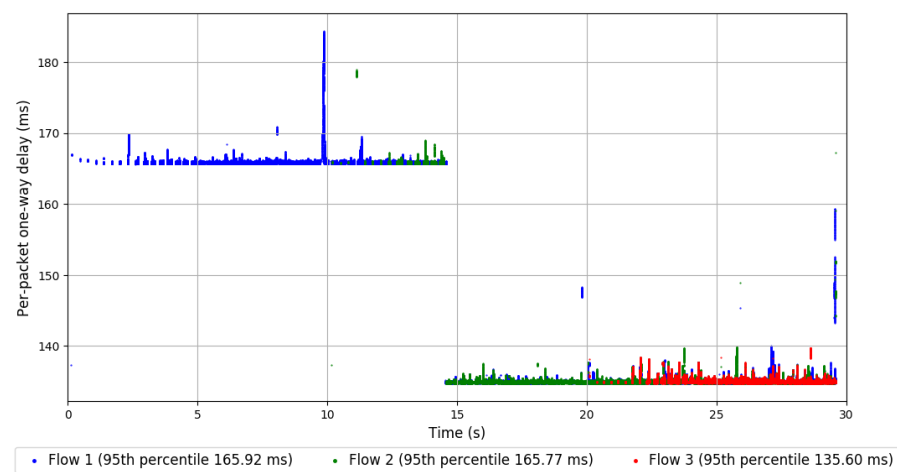
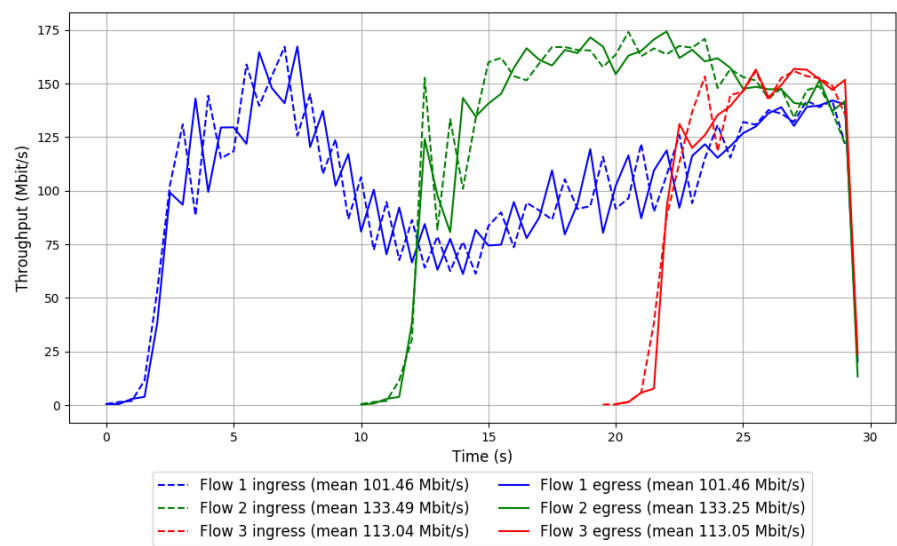
-- Flow 3:

Average throughput: 113.05 Mbit/s

95th percentile per-packet one-way delay: 135.605 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link

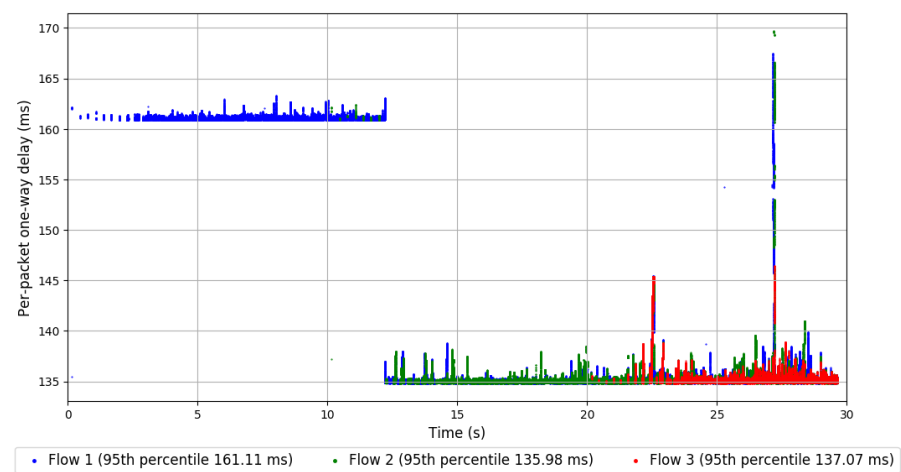
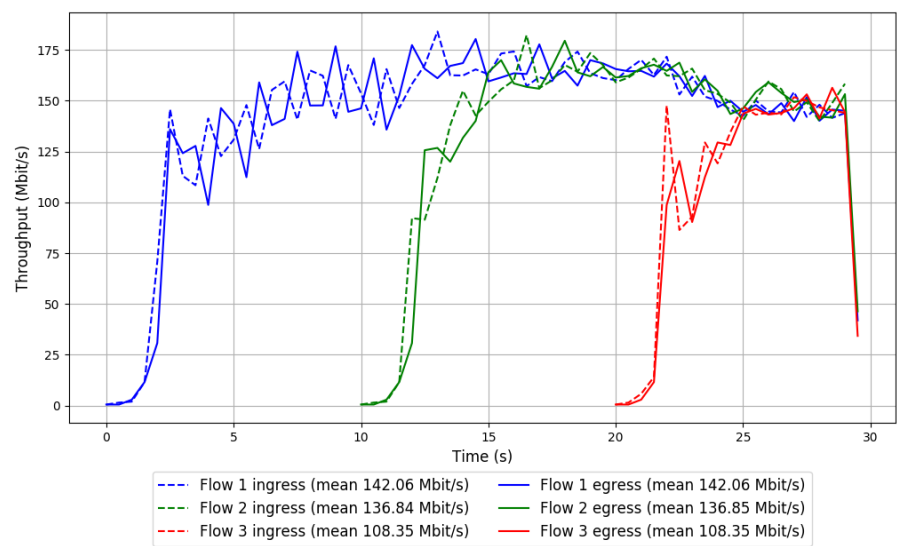


```
Run 10: Statistics of Indigo

Start at: 2017-11-17 10:42:02
End at: 2017-11-17 10:42:32

# Below is generated by plot.py at 2017-11-17 12:15:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 267.21 Mbit/s
95th percentile per-packet one-way delay: 161.048 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 142.06 Mbit/s
95th percentile per-packet one-way delay: 161.108 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 136.85 Mbit/s
95th percentile per-packet one-way delay: 135.978 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 108.35 Mbit/s
95th percentile per-packet one-way delay: 137.069 ms
Loss rate: 0.00%
```

Run 10: Report of Indigo — Data Link

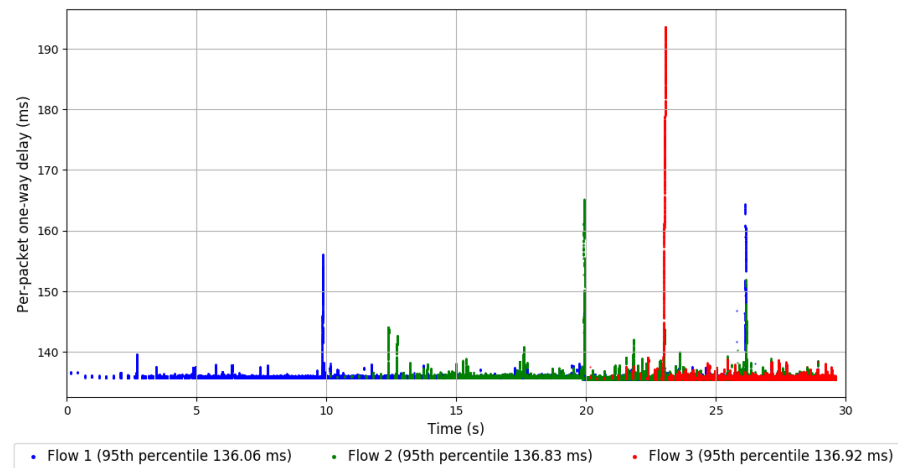
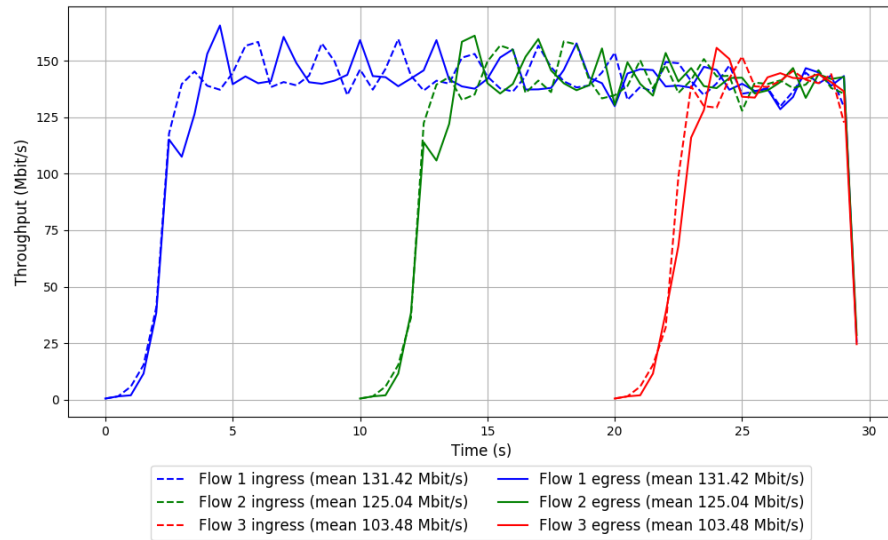


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-17 08:26:04
End at: 2017-11-17 08:26:34

# Below is generated by plot.py at 2017-11-17 12:15:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 247.22 Mbit/s
95th percentile per-packet one-way delay: 136.379 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 131.42 Mbit/s
95th percentile per-packet one-way delay: 136.062 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 125.04 Mbit/s
95th percentile per-packet one-way delay: 136.831 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 103.48 Mbit/s
95th percentile per-packet one-way delay: 136.917 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link

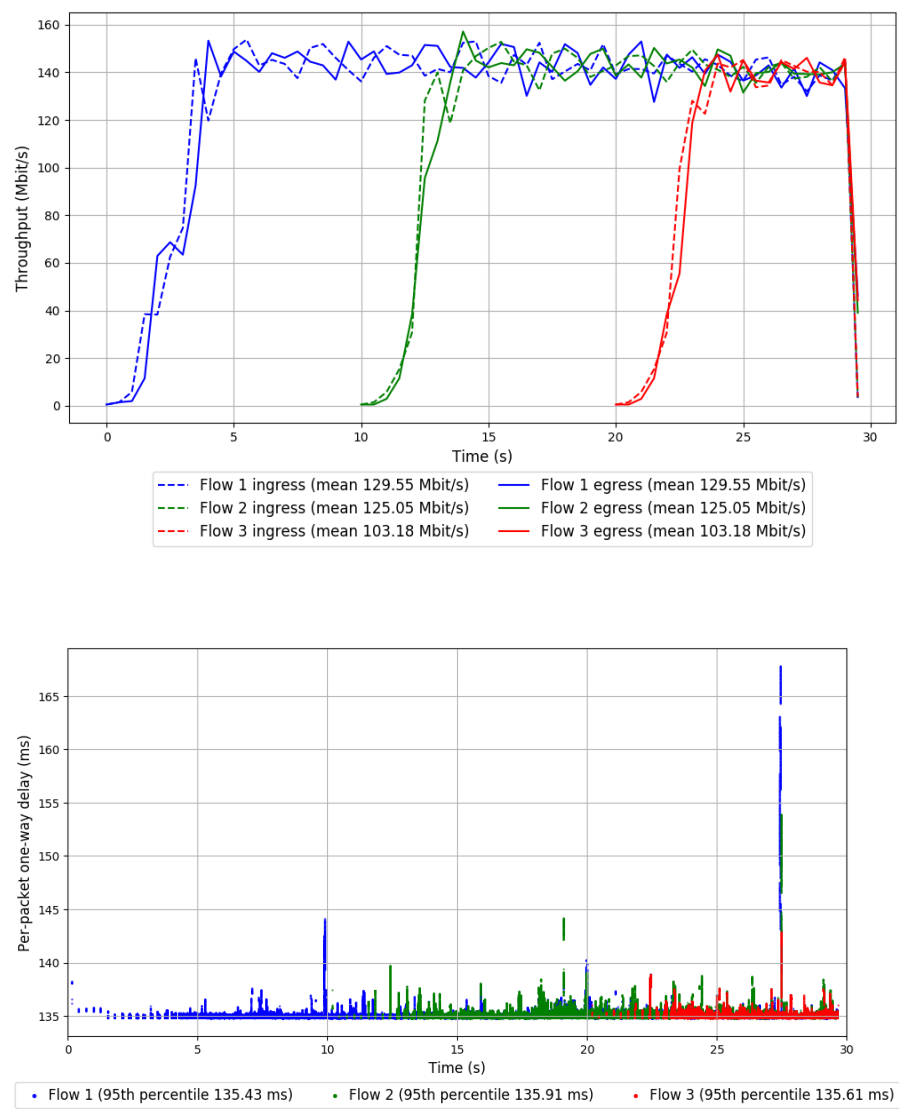


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-17 08:40:13
End at: 2017-11-17 08:40:43

# Below is generated by plot.py at 2017-11-17 12:15:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 245.16 Mbit/s
95th percentile per-packet one-way delay: 135.614 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 129.55 Mbit/s
95th percentile per-packet one-way delay: 135.427 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 125.05 Mbit/s
95th percentile per-packet one-way delay: 135.909 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 103.18 Mbit/s
95th percentile per-packet one-way delay: 135.610 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-calib — Data Link

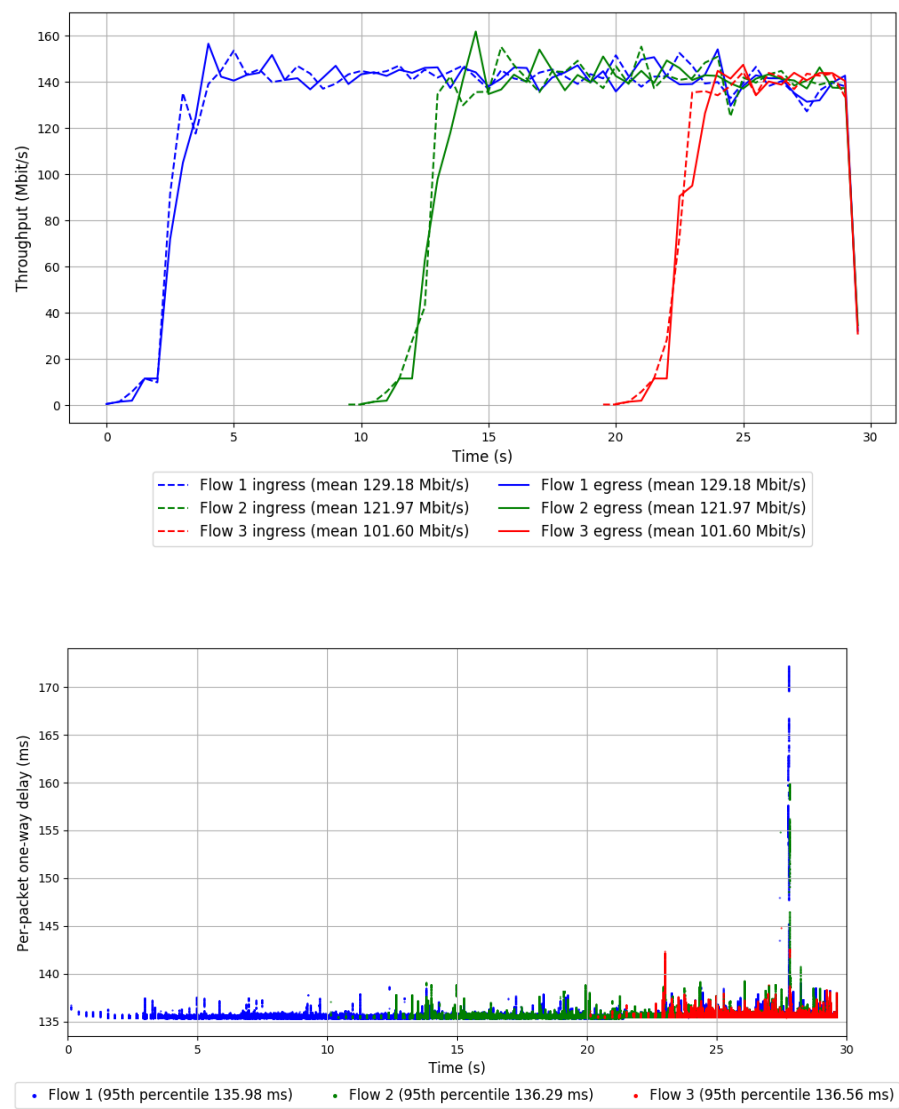


```
Run 3: Statistics of Indigo-calib

Start at: 2017-11-17 08:54:23
End at: 2017-11-17 08:54:53

# Below is generated by plot.py at 2017-11-17 12:15:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 242.50 Mbit/s
95th percentile per-packet one-way delay: 136.192 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 129.18 Mbit/s
95th percentile per-packet one-way delay: 135.983 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 121.97 Mbit/s
95th percentile per-packet one-way delay: 136.290 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 101.60 Mbit/s
95th percentile per-packet one-way delay: 136.563 ms
Loss rate: 0.00%
```


Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-11-17 09:08:26

End at: 2017-11-17 09:08:56

Below is generated by plot.py at 2017-11-17 12:15:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 232.23 Mbit/s

95th percentile per-packet one-way delay: 160.899 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 120.34 Mbit/s

95th percentile per-packet one-way delay: 160.910 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 118.22 Mbit/s

95th percentile per-packet one-way delay: 160.919 ms

Loss rate: 0.00%

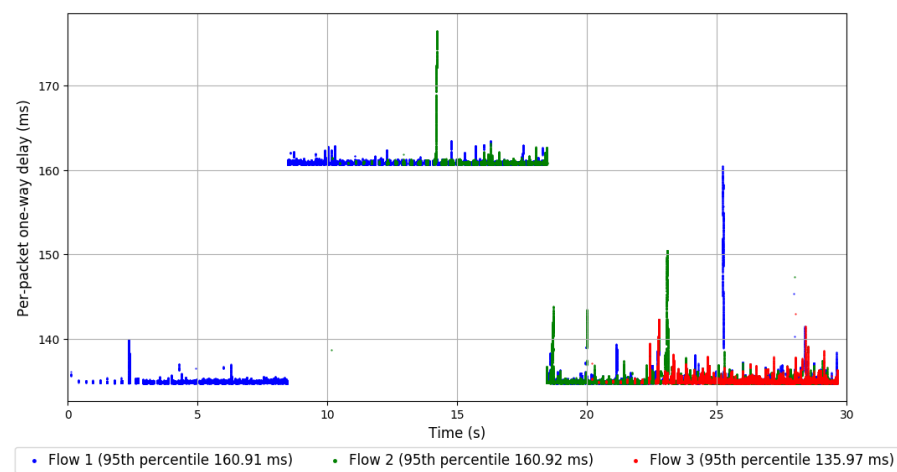
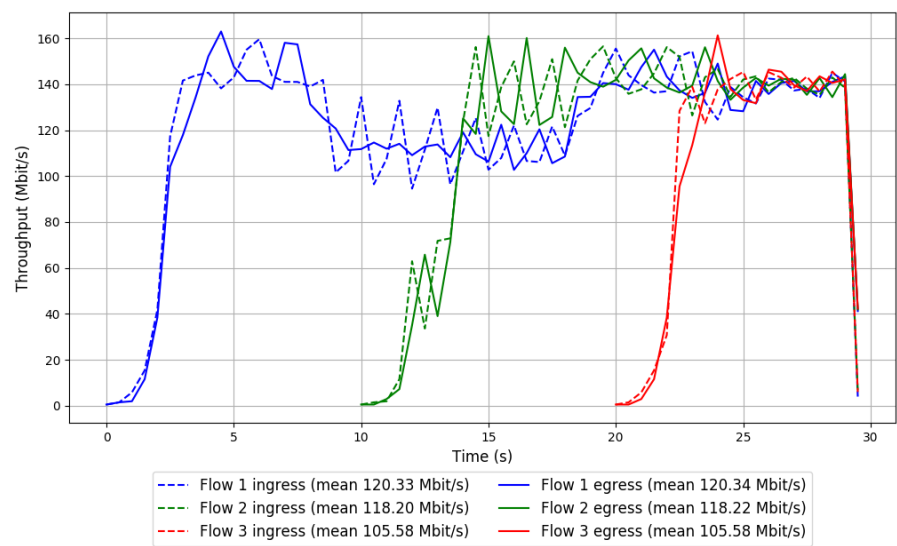
-- Flow 3:

Average throughput: 105.58 Mbit/s

95th percentile per-packet one-way delay: 135.973 ms

Loss rate: 0.00%

Run 4: Report of Indigo-calib — Data Link

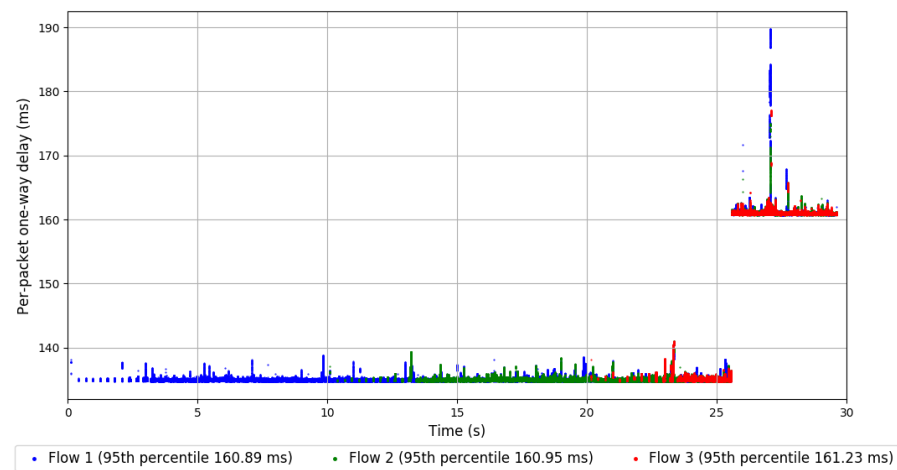
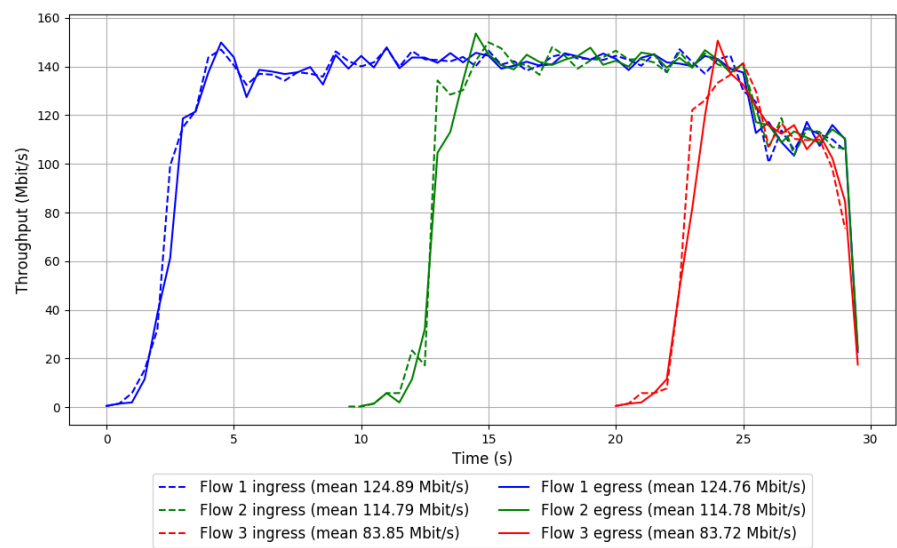


```
Run 5: Statistics of Indigo-calib

Start at: 2017-11-17 09:22:09
End at: 2017-11-17 09:22:39

# Below is generated by plot.py at 2017-11-17 12:15:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 227.52 Mbit/s
95th percentile per-packet one-way delay: 160.960 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 124.76 Mbit/s
95th percentile per-packet one-way delay: 160.887 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 114.78 Mbit/s
95th percentile per-packet one-way delay: 160.952 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 83.72 Mbit/s
95th percentile per-packet one-way delay: 161.230 ms
Loss rate: 0.17%
```

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-11-17 09:35:30

End at: 2017-11-17 09:36:00

Below is generated by plot.py at 2017-11-17 12:15:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 250.43 Mbit/s

95th percentile per-packet one-way delay: 136.015 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 133.48 Mbit/s

95th percentile per-packet one-way delay: 135.979 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 124.59 Mbit/s

95th percentile per-packet one-way delay: 135.980 ms

Loss rate: 0.00%

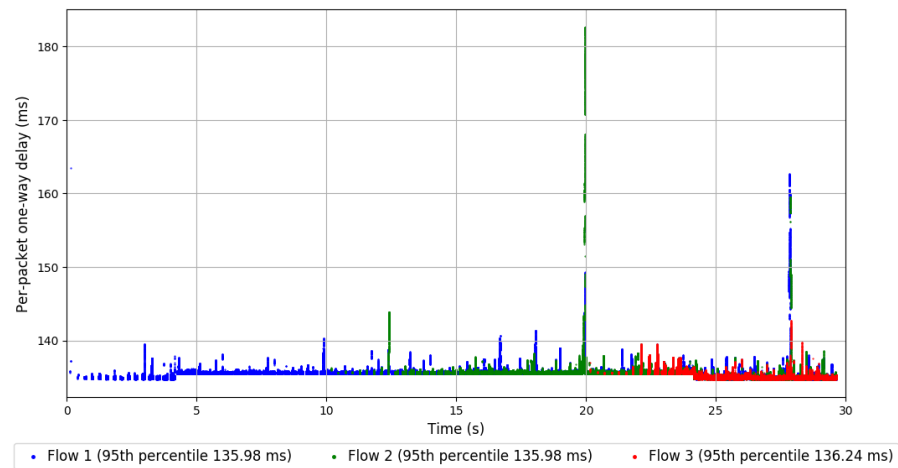
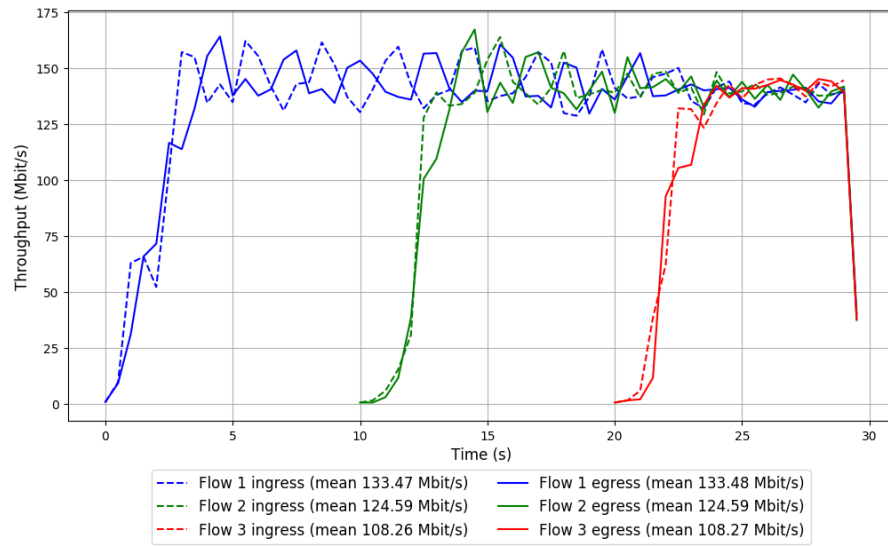
-- Flow 3:

Average throughput: 108.27 Mbit/s

95th percentile per-packet one-way delay: 136.237 ms

Loss rate: 0.00%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-11-17 09:49:38

End at: 2017-11-17 09:50:08

Below is generated by plot.py at 2017-11-17 12:16:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 233.76 Mbit/s

95th percentile per-packet one-way delay: 135.897 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 122.30 Mbit/s

95th percentile per-packet one-way delay: 135.824 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 118.43 Mbit/s

95th percentile per-packet one-way delay: 136.003 ms

Loss rate: 0.00%

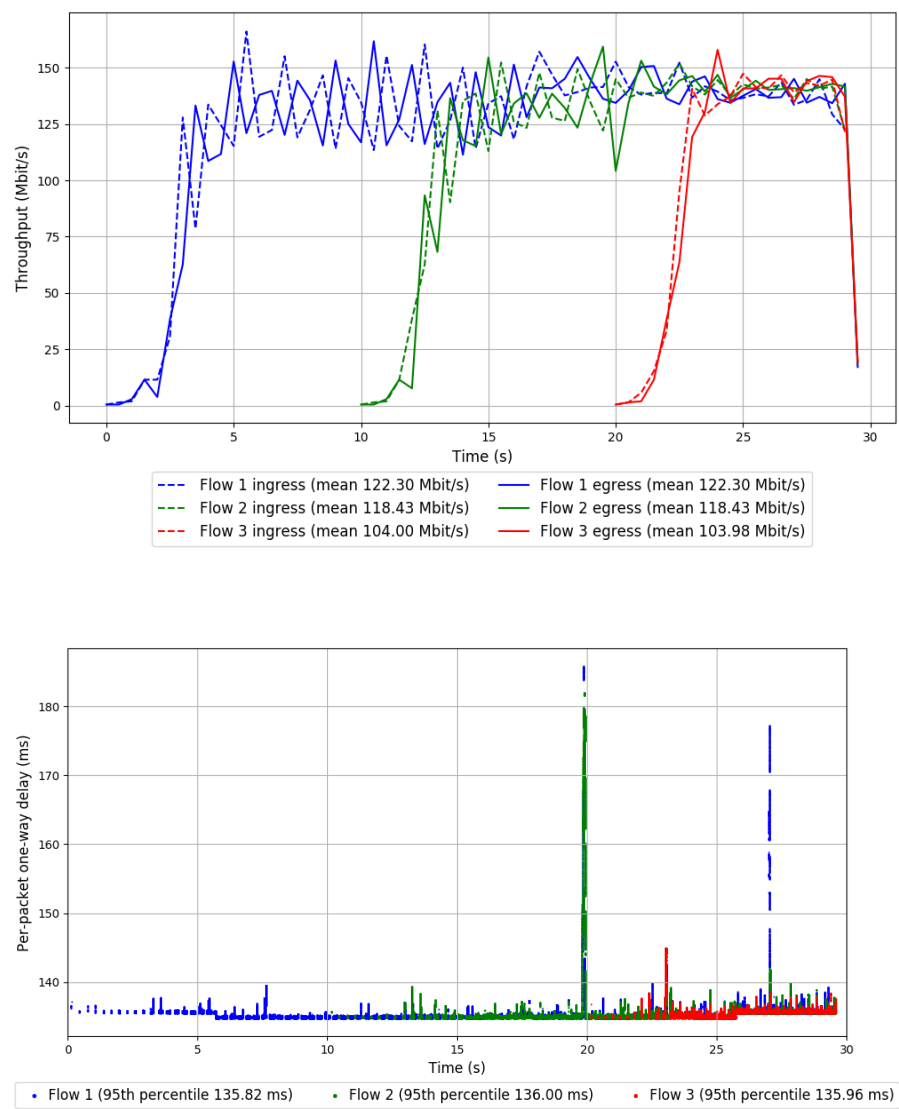
-- Flow 3:

Average throughput: 103.98 Mbit/s

95th percentile per-packet one-way delay: 135.964 ms

Loss rate: 0.01%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-17 10:03:46

End at: 2017-11-17 10:04:16

Below is generated by plot.py at 2017-11-17 12:16:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 223.75 Mbit/s

95th percentile per-packet one-way delay: 136.114 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 107.47 Mbit/s

95th percentile per-packet one-way delay: 136.004 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 125.36 Mbit/s

95th percentile per-packet one-way delay: 136.111 ms

Loss rate: 0.00%

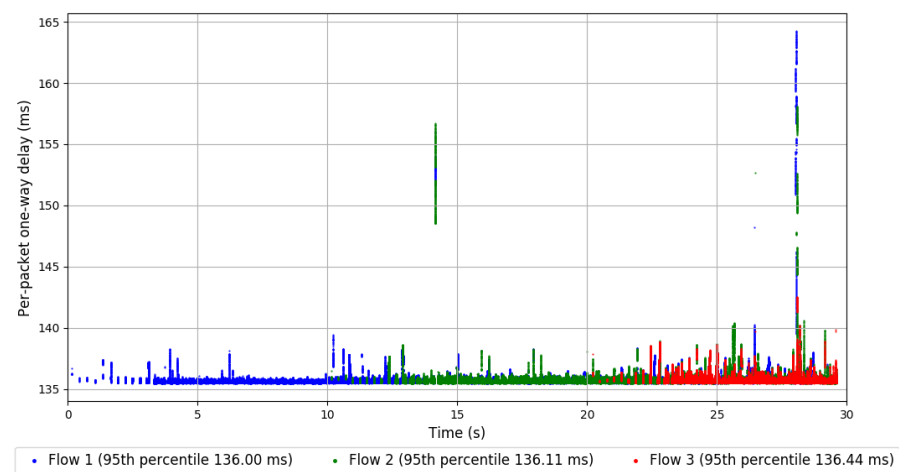
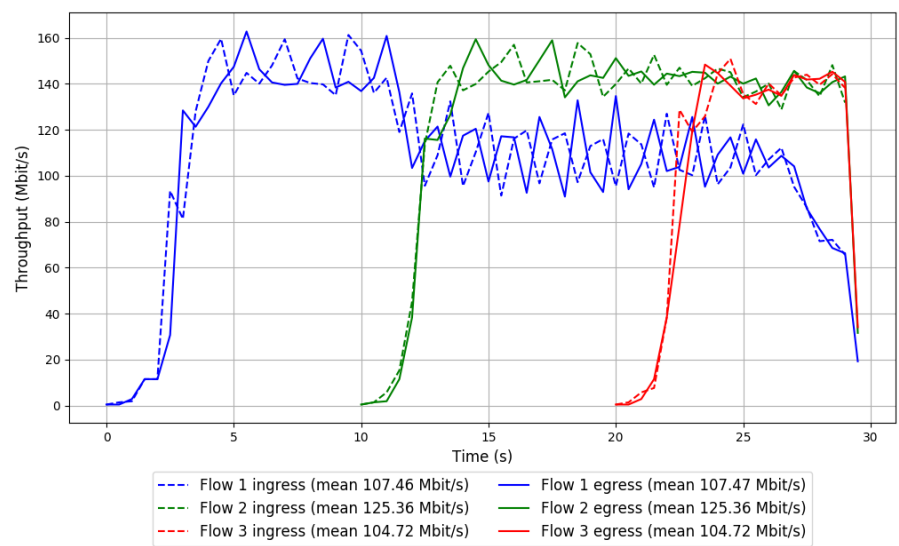
-- Flow 3:

Average throughput: 104.72 Mbit/s

95th percentile per-packet one-way delay: 136.444 ms

Loss rate: 0.01%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-11-17 10:17:43

End at: 2017-11-17 10:18:13

Below is generated by plot.py at 2017-11-17 12:16:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 230.27 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 119.41 Mbit/s

95th percentile per-packet one-way delay: 136.136 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 115.67 Mbit/s

95th percentile per-packet one-way delay: 136.347 ms

Loss rate: 0.00%

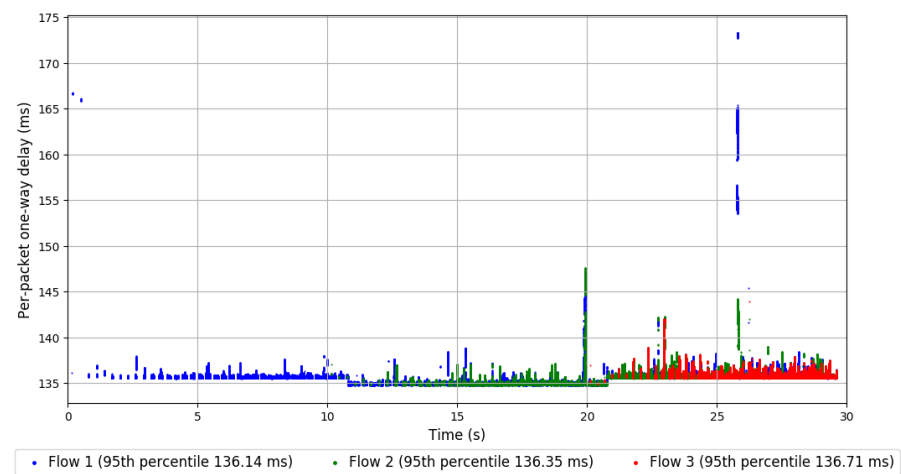
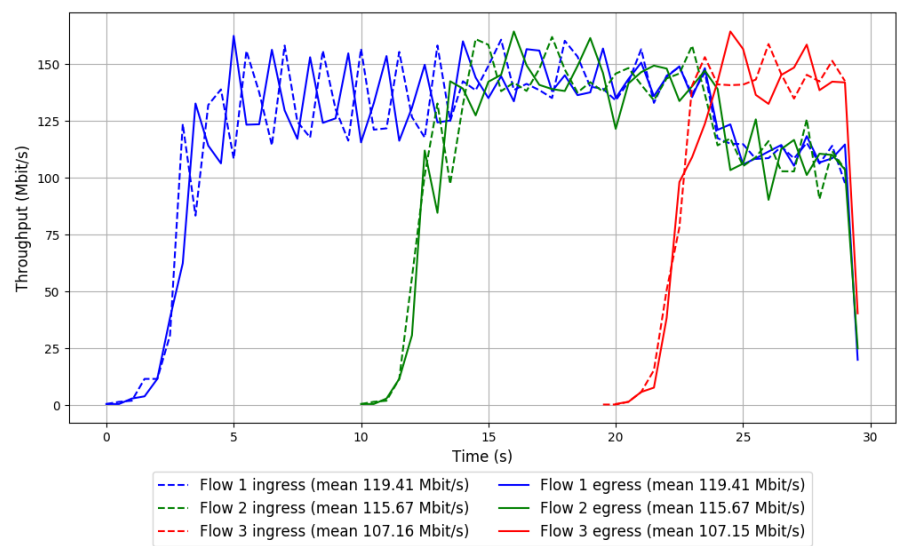
-- Flow 3:

Average throughput: 107.15 Mbit/s

95th percentile per-packet one-way delay: 136.708 ms

Loss rate: 0.00%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-17 10:31:05

End at: 2017-11-17 10:31:35

Below is generated by plot.py at 2017-11-17 12:16:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 247.21 Mbit/s

95th percentile per-packet one-way delay: 135.528 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 130.80 Mbit/s

95th percentile per-packet one-way delay: 135.301 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 125.26 Mbit/s

95th percentile per-packet one-way delay: 135.693 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 104.92 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

