

Pantheon Report

Generated at 2018-06-19 17:00:03 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

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

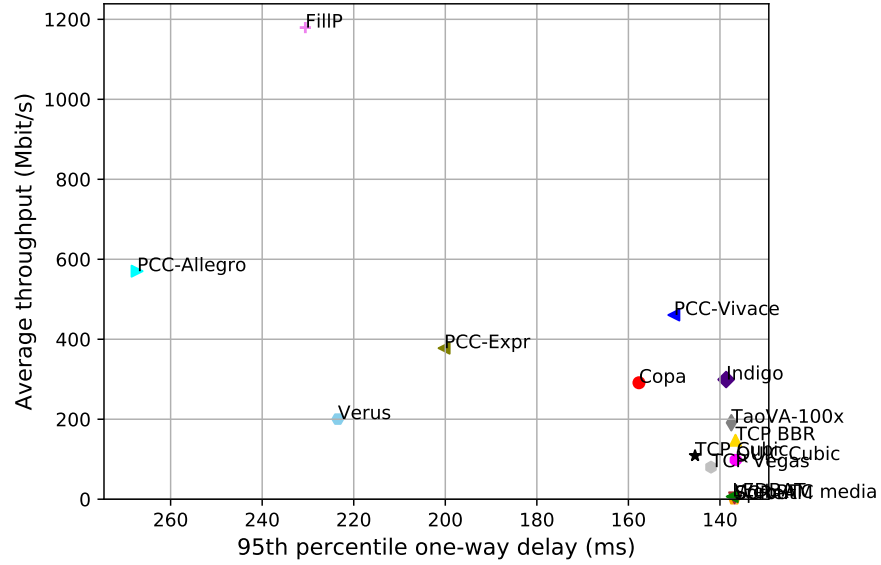
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.

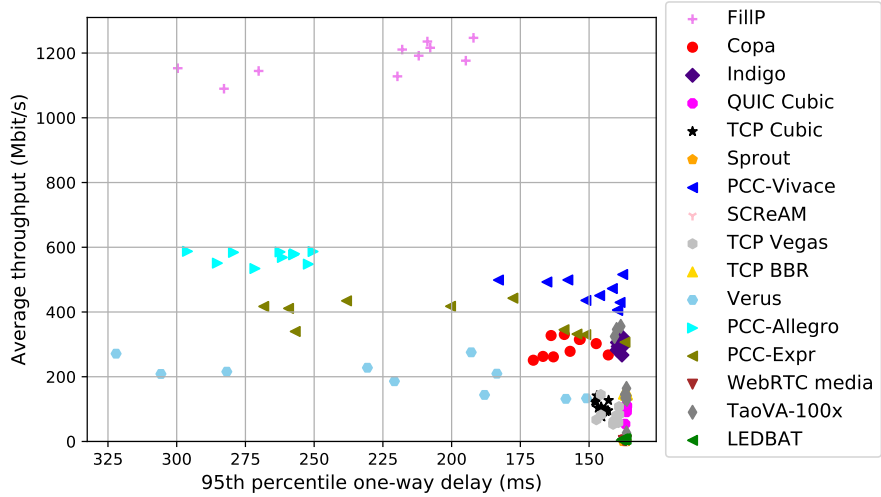
Git summary:

```
branch: master @ 9141c5f9450c85ea5ea2ea755a8e946998d3abf3
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
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/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quir @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



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



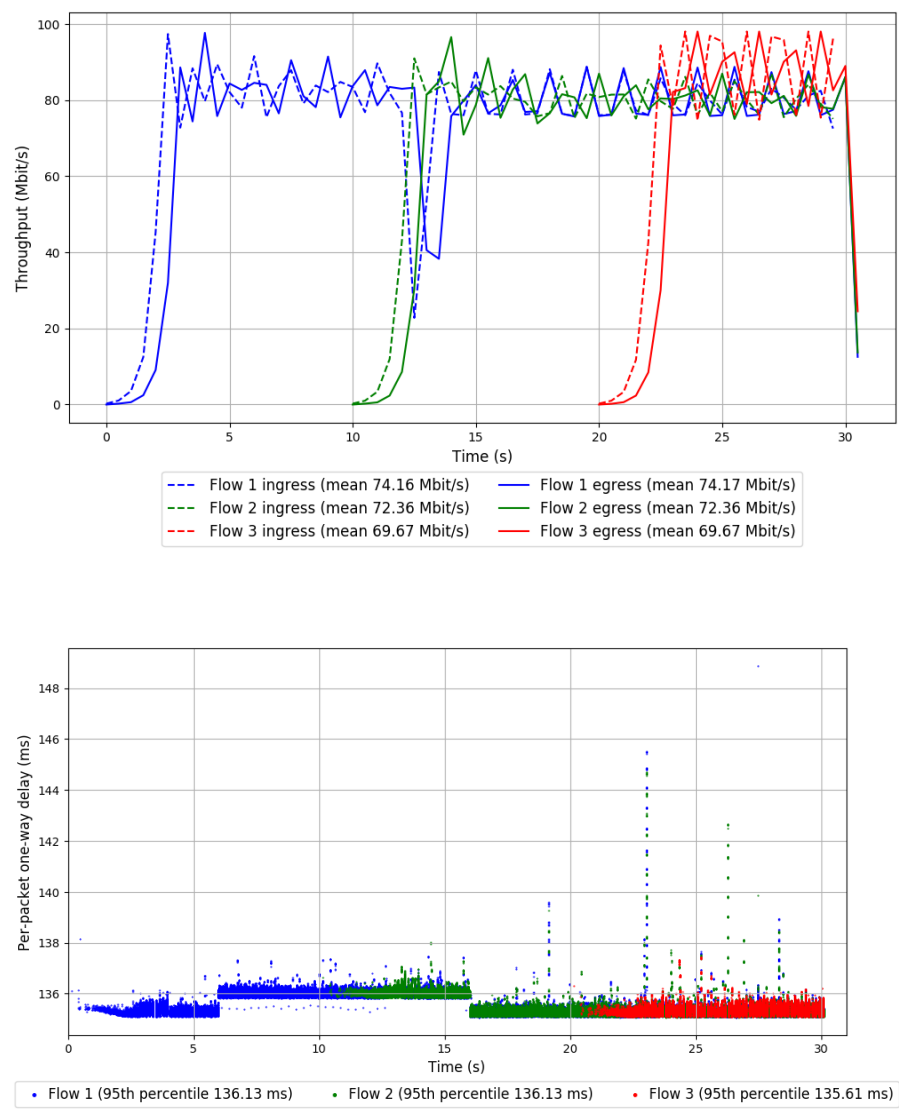
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	75.50	74.59	67.37	136.58	136.61	136.64	0.00	0.00	0.00
Copa	10	173.96	132.01	102.70	155.72	153.69	166.77	0.03	0.02	0.01
TCP Cubic	10	59.28	58.28	32.63	145.72	145.14	145.97	0.03	0.00	0.44
FillP	10	647.43	571.31	457.13	242.02	220.74	169.60	2.68	1.49	0.16
Indigo	10	152.20	153.19	142.65	138.15	138.66	141.04	0.00	0.00	0.00
LEDBAT	10	4.05	3.20	1.40	137.37	137.24	136.77	0.00	0.00	0.00
PCC-Allegro	10	467.58	131.47	46.38	269.75	251.94	252.01	3.92	3.90	5.56
PCC-Expr	10	237.60	165.16	91.51	204.50	166.54	164.73	0.74	0.03	0.07
QUIC Cubic	10	47.20	59.40	36.34	136.48	136.16	136.36	0.00	0.00	0.00
SCReAM	10	0.22	0.21	0.22	136.73	136.12	136.38	0.00	0.00	0.00
Sprout	10	0.17	0.16	0.21	136.85	136.80	136.73	0.00	0.00	0.00
TaoVA-100x	10	61.58	161.28	66.87	136.99	137.27	140.34	0.01	0.01	0.00
TCP Vegas	10	43.11	37.85	35.83	140.49	142.46	142.16	0.00	0.00	0.01
Verus	10	130.84	83.48	46.90	230.17	214.94	201.88	1.46	1.78	1.20
PCC-Vivace	10	286.88	213.06	97.98	154.75	145.50	143.71	0.19	0.01	0.00
WebRTC media	10	1.83	1.09	0.37	136.78	136.61	136.76	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-06-19 11:06:54
End at: 2018-06-19 11:07:24
Local clock offset: 0.305 ms
Remote clock offset: -0.356 ms

Below is generated by plot.py at 2018-06-19 15:09:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 145.44 Mbit/s
95th percentile per-packet one-way delay: 136.117 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 74.17 Mbit/s
95th percentile per-packet one-way delay: 136.133 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 72.36 Mbit/s
95th percentile per-packet one-way delay: 136.129 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 69.67 Mbit/s
95th percentile per-packet one-way delay: 135.613 ms
Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-06-19 11:31:39

End at: 2018-06-19 11:32:09

Local clock offset: 0.375 ms

Remote clock offset: -0.18 ms

Below is generated by plot.py at 2018-06-19 15:09:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 142.93 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 73.56 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 72.05 Mbit/s

95th percentile per-packet one-way delay: 136.187 ms

Loss rate: 0.00%

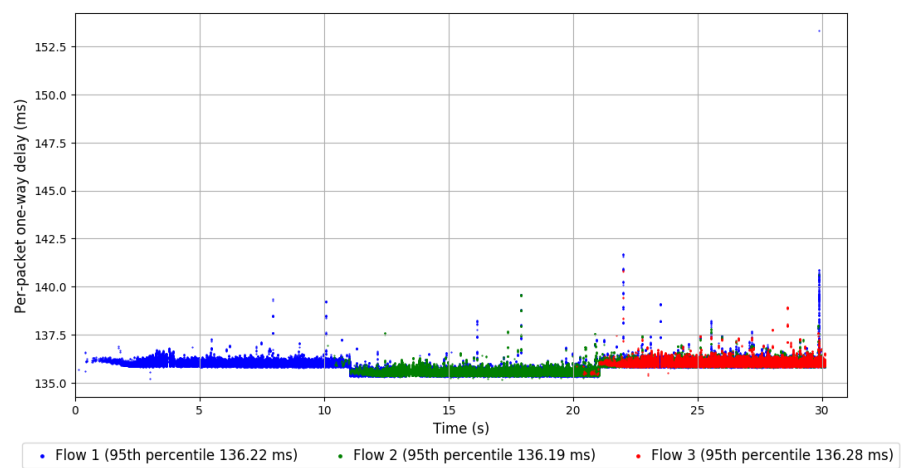
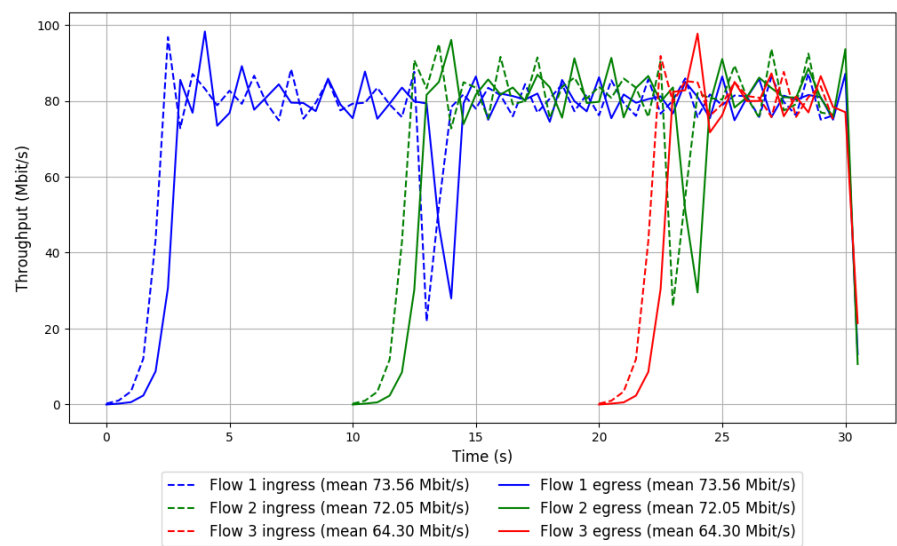
-- Flow 3:

Average throughput: 64.30 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link

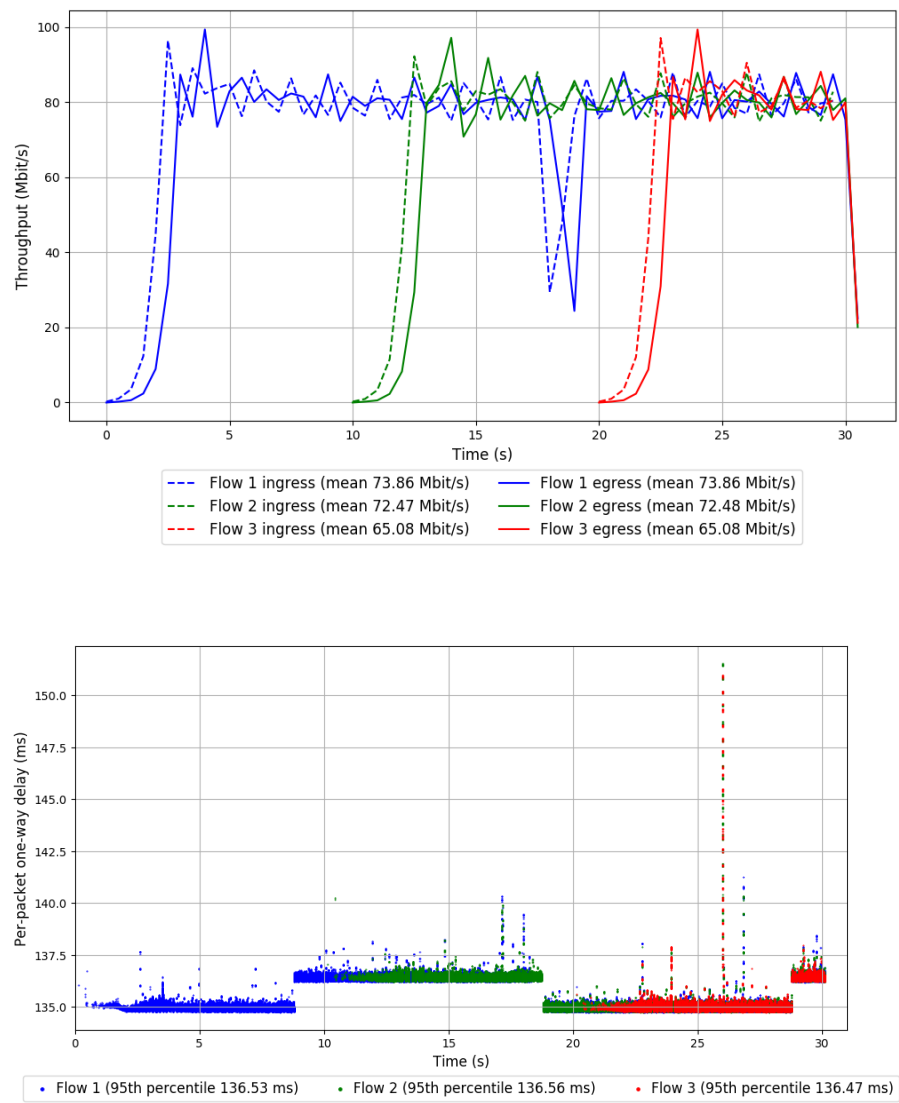


Run 3: Statistics of TCP BBR

Start at: 2018-06-19 11:56:31
End at: 2018-06-19 11:57:01
Local clock offset: 0.079 ms
Remote clock offset: -0.095 ms

Below is generated by plot.py at 2018-06-19 15:09:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 143.73 Mbit/s
95th percentile per-packet one-way delay: 136.533 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 73.86 Mbit/s
95th percentile per-packet one-way delay: 136.529 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 72.48 Mbit/s
95th percentile per-packet one-way delay: 136.555 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 65.08 Mbit/s
95th percentile per-packet one-way delay: 136.471 ms
Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-06-19 12:21:36

End at: 2018-06-19 12:22:06

Local clock offset: -0.03 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-06-19 15:09:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 149.53 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 73.98 Mbit/s

95th percentile per-packet one-way delay: 136.708 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 78.78 Mbit/s

95th percentile per-packet one-way delay: 136.891 ms

Loss rate: 0.00%

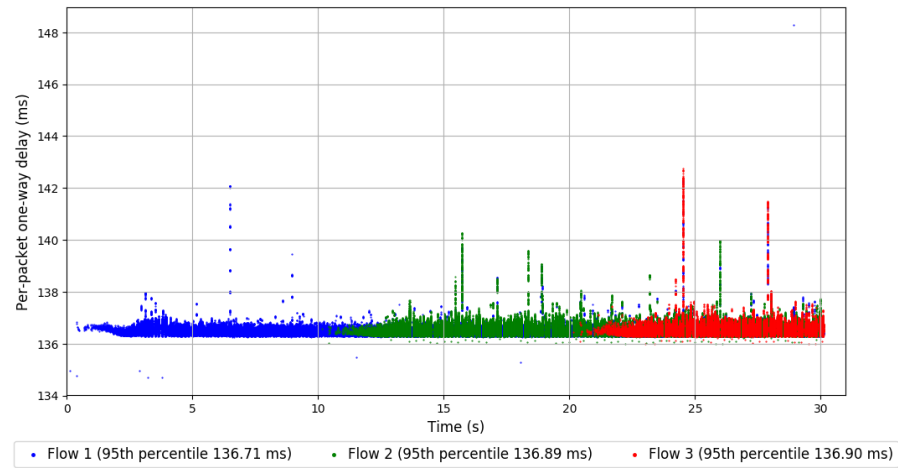
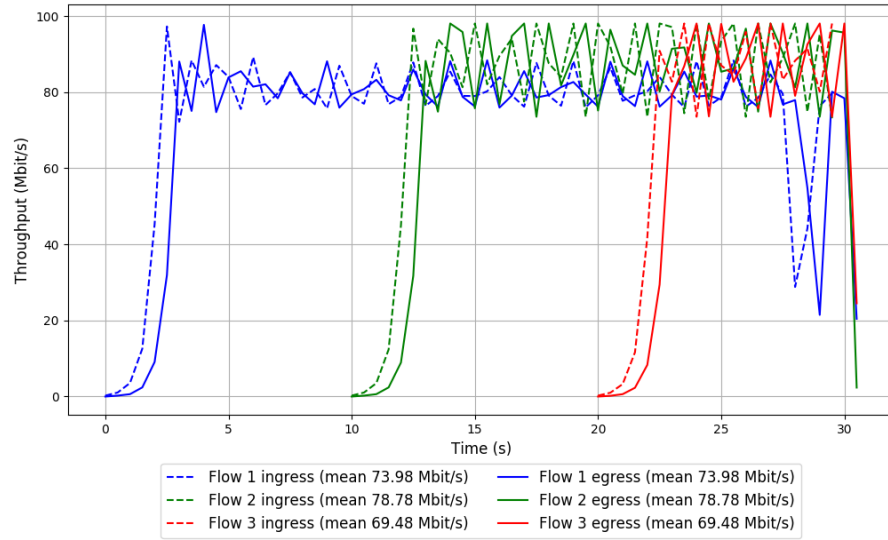
-- Flow 3:

Average throughput: 69.48 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-06-19 12:46:33

End at: 2018-06-19 12:47:03

Local clock offset: -0.01 ms

Remote clock offset: 0.037 ms

Below is generated by plot.py at 2018-06-19 15:09:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 154.97 Mbit/s

95th percentile per-packet one-way delay: 136.371 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 81.33 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 75.98 Mbit/s

95th percentile per-packet one-way delay: 136.265 ms

Loss rate: 0.00%

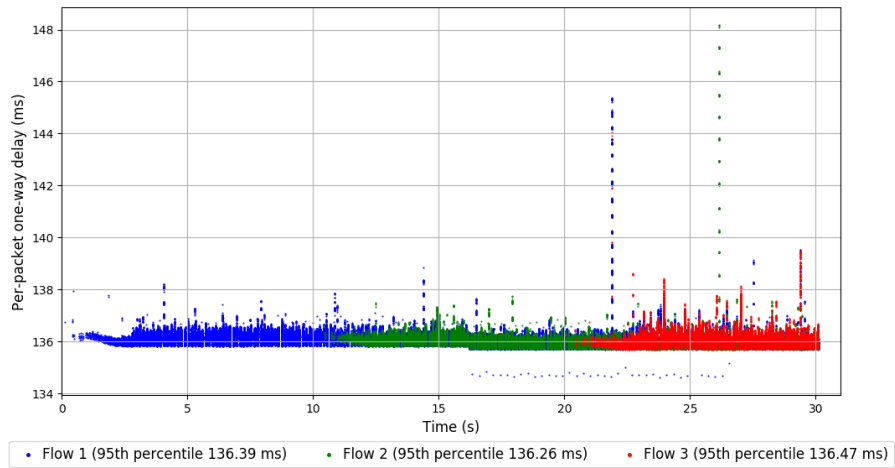
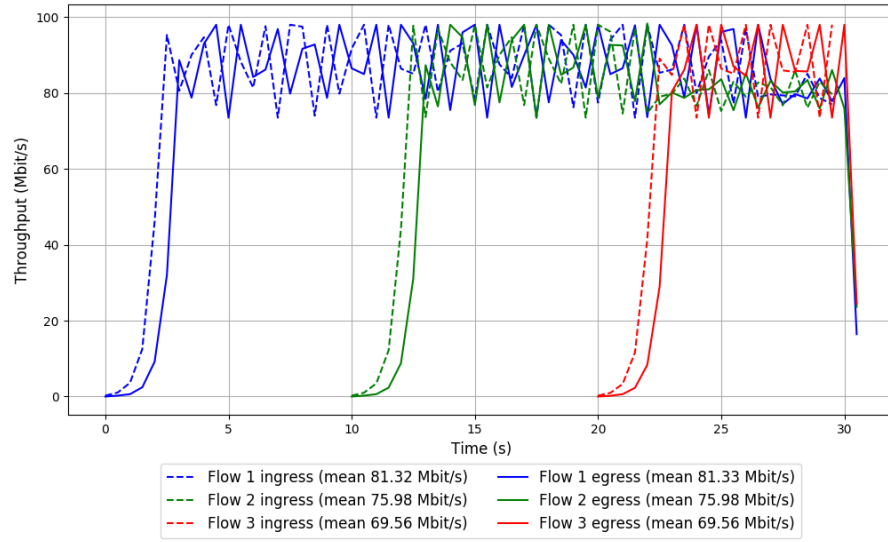
-- Flow 3:

Average throughput: 69.56 Mbit/s

95th percentile per-packet one-way delay: 136.470 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-06-19 13:11:27

End at: 2018-06-19 13:11:57

Local clock offset: -0.292 ms

Remote clock offset: 0.152 ms

Below is generated by plot.py at 2018-06-19 15:09:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 147.33 Mbit/s

95th percentile per-packet one-way delay: 137.057 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 73.84 Mbit/s

95th percentile per-packet one-way delay: 136.961 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 78.39 Mbit/s

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

Loss rate: 0.00%

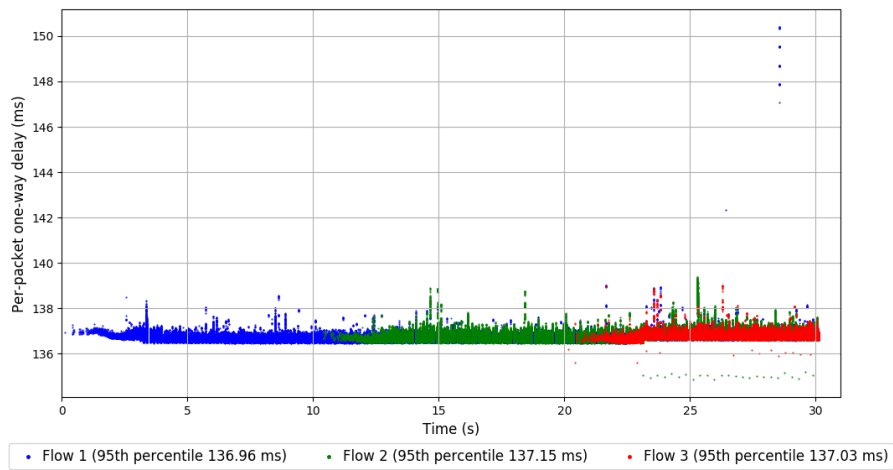
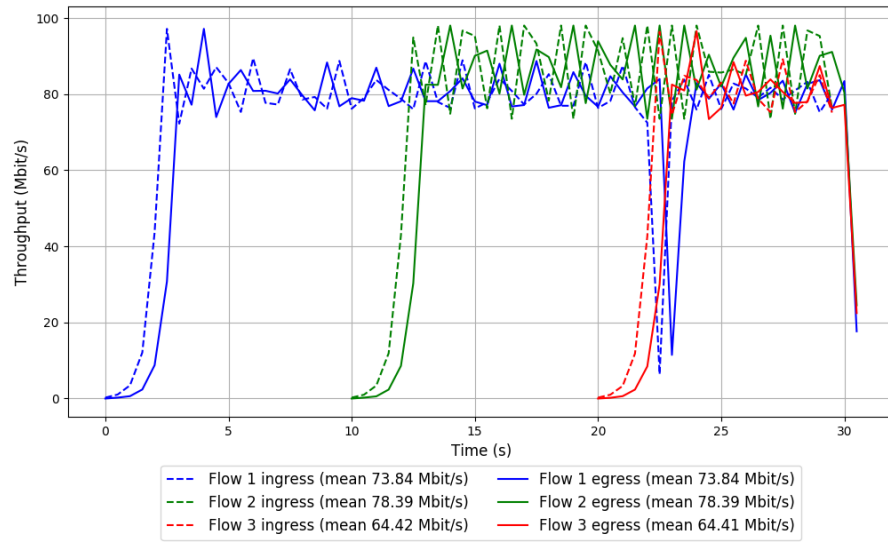
-- Flow 3:

Average throughput: 64.41 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link

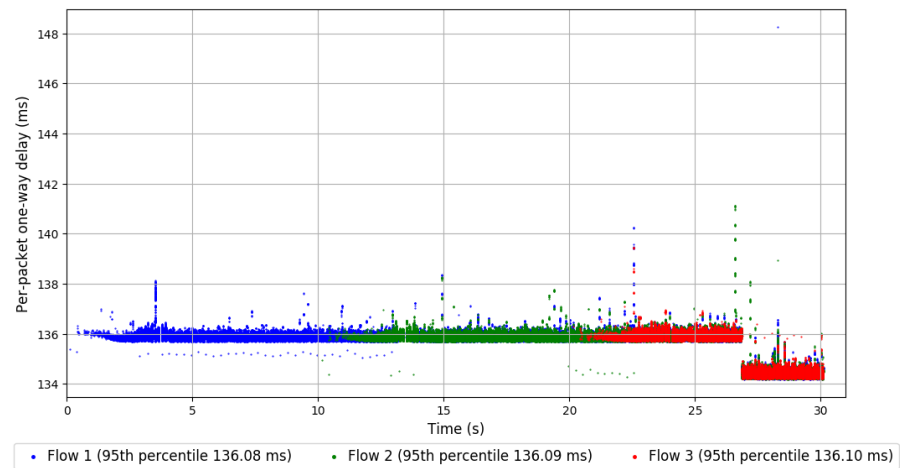
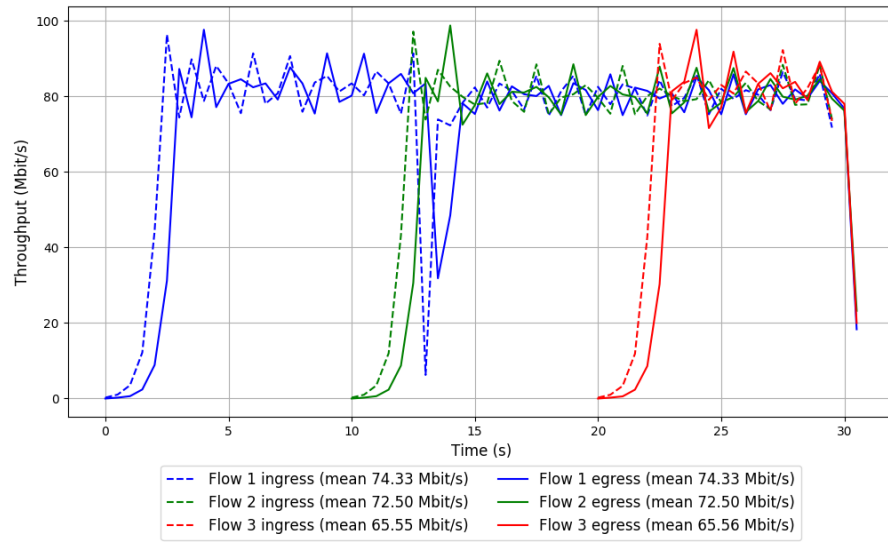


Run 7: Statistics of TCP BBR

Start at: 2018-06-19 13:36:03
End at: 2018-06-19 13:36:33
Local clock offset: 0.316 ms
Remote clock offset: -0.328 ms

Below is generated by plot.py at 2018-06-19 15:09:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 144.37 Mbit/s
95th percentile per-packet one-way delay: 136.088 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 74.33 Mbit/s
95th percentile per-packet one-way delay: 136.083 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 72.50 Mbit/s
95th percentile per-packet one-way delay: 136.090 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 65.56 Mbit/s
95th percentile per-packet one-way delay: 136.102 ms
Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-06-19 14:01:12

End at: 2018-06-19 14:01:42

Local clock offset: -0.096 ms

Remote clock offset: 0.049 ms

Below is generated by plot.py at 2018-06-19 15:09:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 143.35 Mbit/s

95th percentile per-packet one-way delay: 136.748 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 74.33 Mbit/s

95th percentile per-packet one-way delay: 136.741 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 71.44 Mbit/s

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

Loss rate: 0.00%

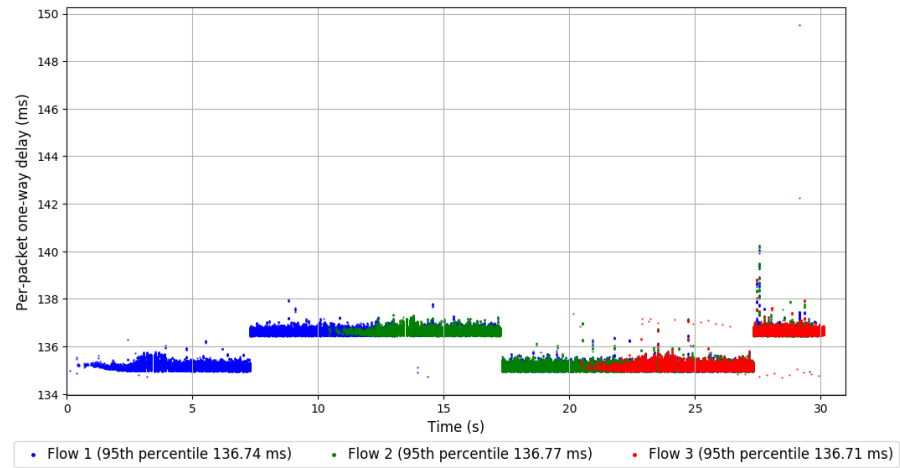
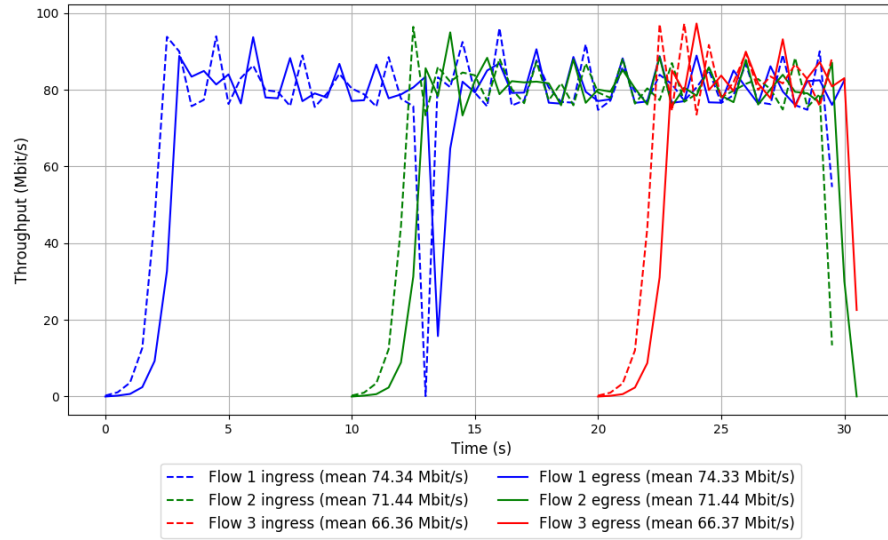
-- Flow 3:

Average throughput: 66.37 Mbit/s

95th percentile per-packet one-way delay: 136.713 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link

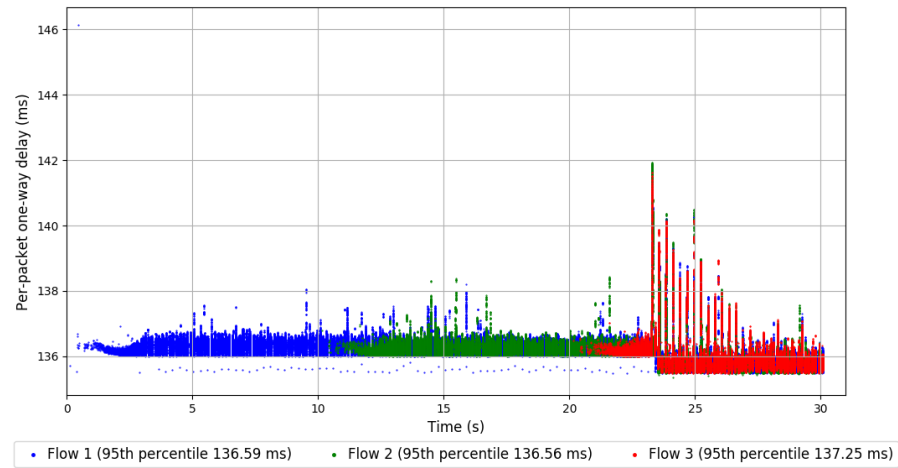
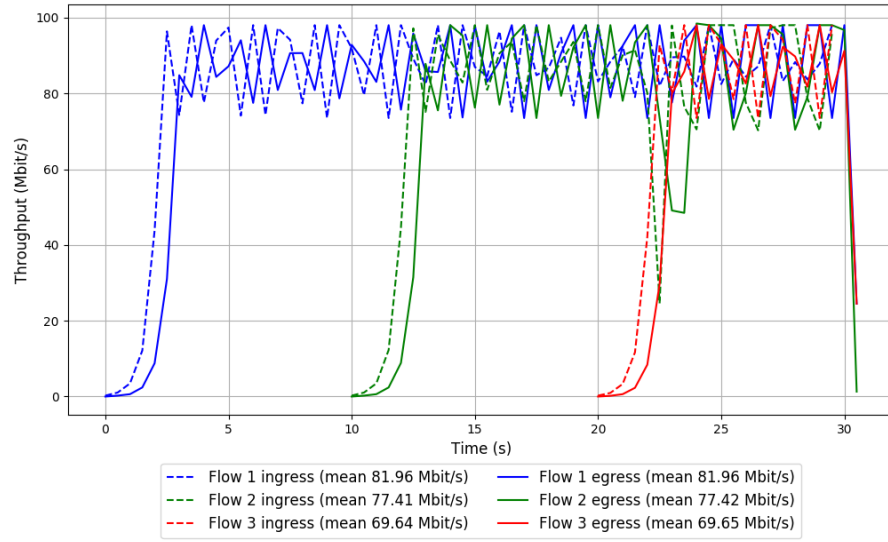


Run 9: Statistics of TCP BBR

Start at: 2018-06-19 14:25:36
End at: 2018-06-19 14:26:06
Local clock offset: -0.054 ms
Remote clock offset: -0.304 ms

Below is generated by plot.py at 2018-06-19 15:11:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 156.33 Mbit/s
95th percentile per-packet one-way delay: 136.608 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 81.96 Mbit/s
95th percentile per-packet one-way delay: 136.588 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 77.42 Mbit/s
95th percentile per-packet one-way delay: 136.563 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 69.65 Mbit/s
95th percentile per-packet one-way delay: 137.253 ms
Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-06-19 14:50:55

End at: 2018-06-19 14:51:25

Local clock offset: -0.261 ms

Remote clock offset: 0.455 ms

Below is generated by plot.py at 2018-06-19 15:11:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 146.32 Mbit/s

95th percentile per-packet one-way delay: 137.507 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 73.68 Mbit/s

95th percentile per-packet one-way delay: 137.421 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 74.53 Mbit/s

95th percentile per-packet one-way delay: 137.546 ms

Loss rate: 0.00%

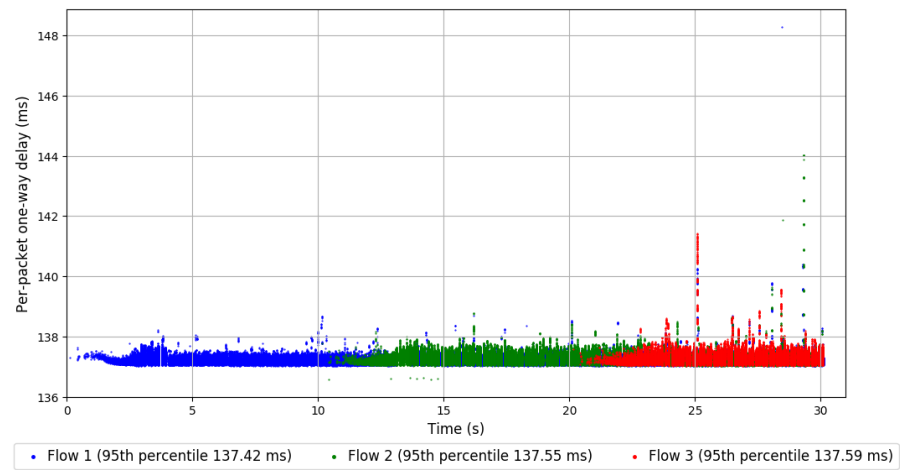
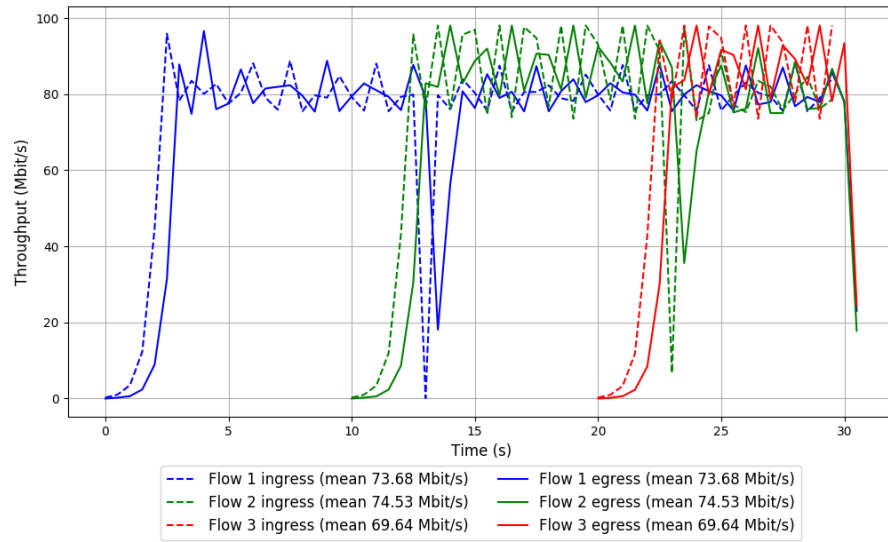
-- Flow 3:

Average throughput: 69.64 Mbit/s

95th percentile per-packet one-way delay: 137.585 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link

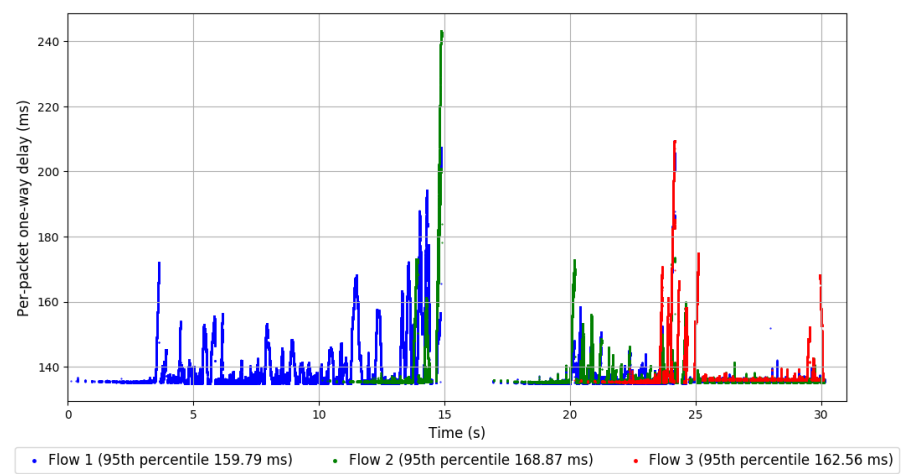
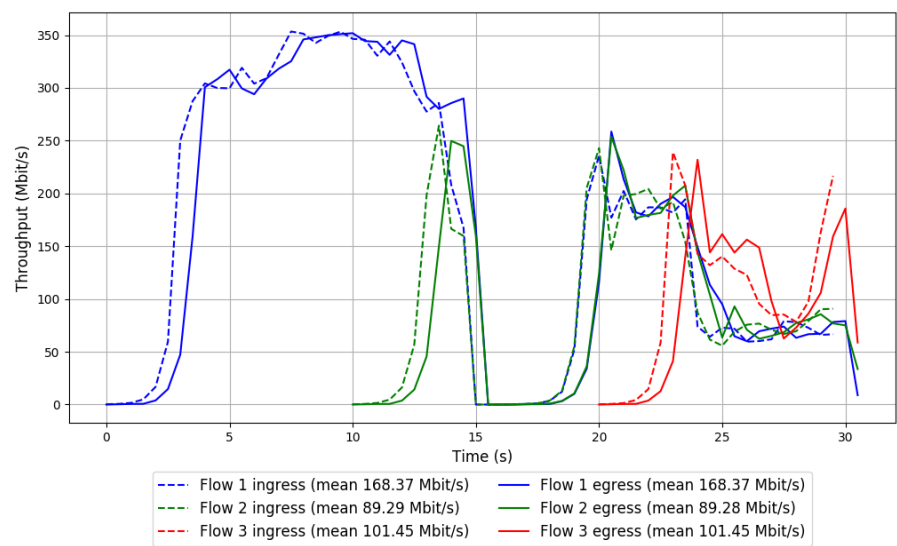


Run 1: Statistics of Copa

Start at: 2018-06-19 11:02:05
End at: 2018-06-19 11:02:35
Local clock offset: 0.188 ms
Remote clock offset: -0.403 ms

Below is generated by plot.py at 2018-06-19 15:17:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 261.38 Mbit/s
95th percentile per-packet one-way delay: 162.984 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 168.37 Mbit/s
95th percentile per-packet one-way delay: 159.789 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 89.28 Mbit/s
95th percentile per-packet one-way delay: 168.870 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 101.45 Mbit/s
95th percentile per-packet one-way delay: 162.555 ms
Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-06-19 11:26:47

End at: 2018-06-19 11:27:17

Local clock offset: 0.126 ms

Remote clock offset: 0.503 ms

Below is generated by plot.py at 2018-06-19 15:19:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 315.11 Mbit/s

95th percentile per-packet one-way delay: 153.530 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 205.00 Mbit/s

95th percentile per-packet one-way delay: 157.360 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 117.03 Mbit/s

95th percentile per-packet one-way delay: 146.098 ms

Loss rate: 0.21%

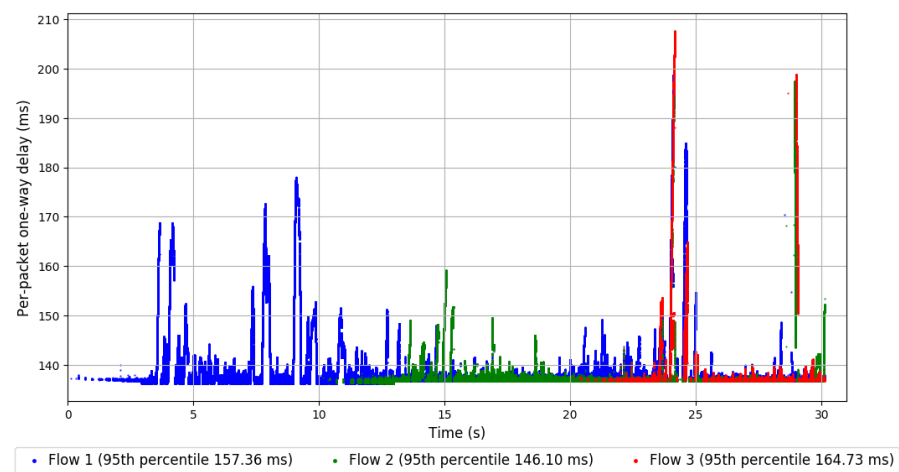
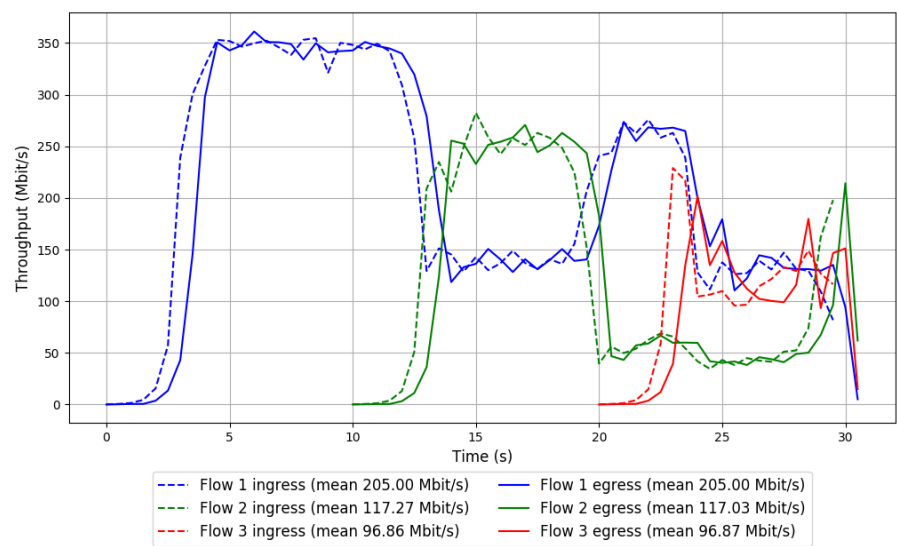
-- Flow 3:

Average throughput: 96.87 Mbit/s

95th percentile per-packet one-way delay: 164.733 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-06-19 11:51:43

End at: 2018-06-19 11:52:13

Local clock offset: -0.143 ms

Remote clock offset: 0.313 ms

Below is generated by plot.py at 2018-06-19 15:19:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 251.01 Mbit/s

95th percentile per-packet one-way delay: 170.286 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 135.39 Mbit/s

95th percentile per-packet one-way delay: 164.082 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 115.73 Mbit/s

95th percentile per-packet one-way delay: 154.513 ms

Loss rate: 0.00%

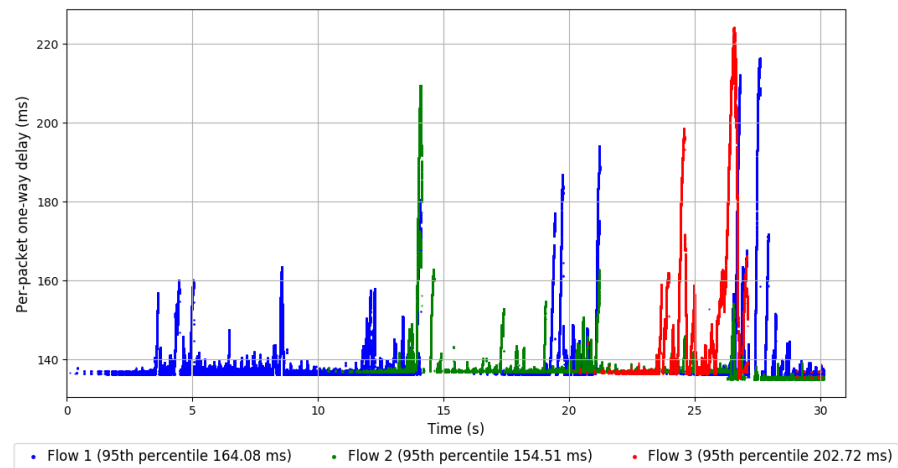
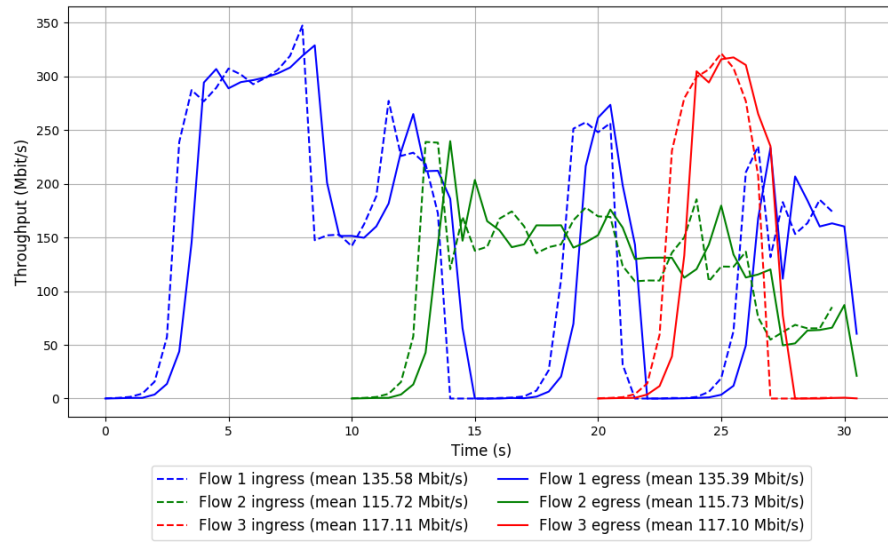
-- Flow 3:

Average throughput: 117.10 Mbit/s

95th percentile per-packet one-way delay: 202.725 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-06-19 12:16:43

End at: 2018-06-19 12:17:13

Local clock offset: 0.075 ms

Remote clock offset: 0.281 ms

Below is generated by plot.py at 2018-06-19 15:19:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 327.30 Mbit/s

95th percentile per-packet one-way delay: 163.816 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 198.87 Mbit/s

95th percentile per-packet one-way delay: 167.082 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 160.82 Mbit/s

95th percentile per-packet one-way delay: 161.937 ms

Loss rate: 0.00%

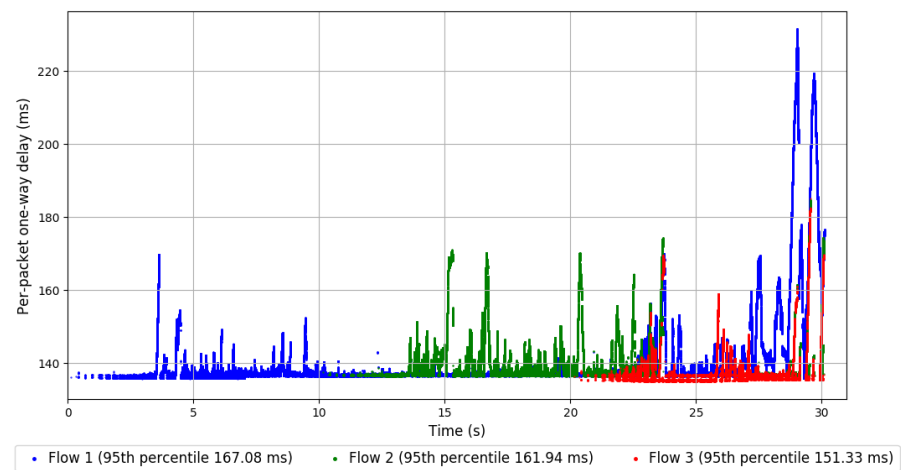
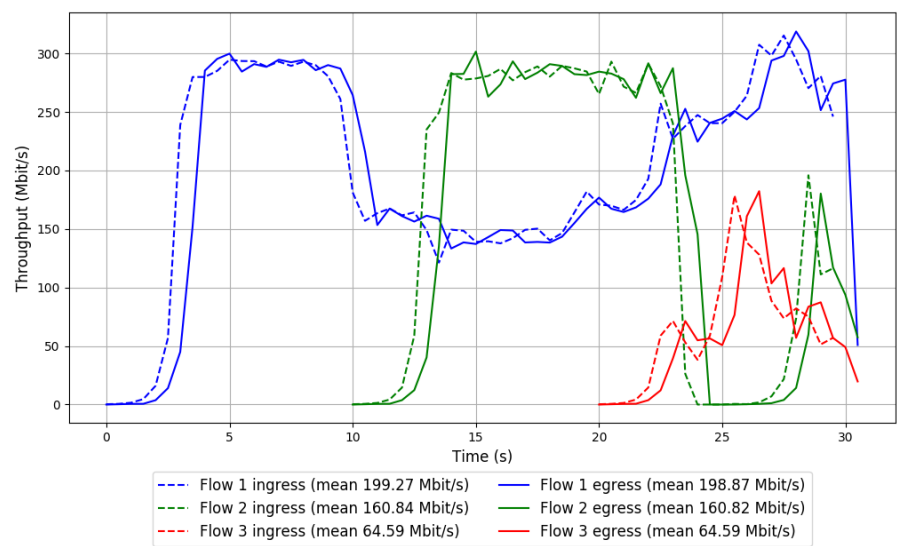
-- Flow 3:

Average throughput: 64.59 Mbit/s

95th percentile per-packet one-way delay: 151.329 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link

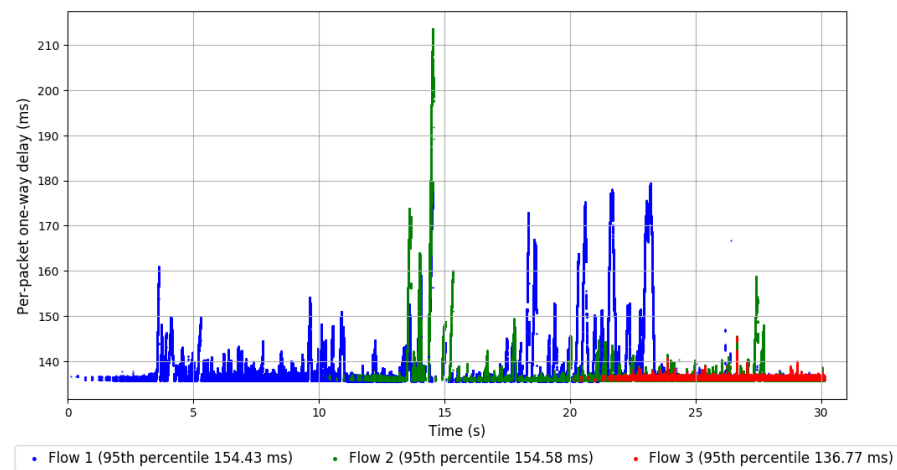
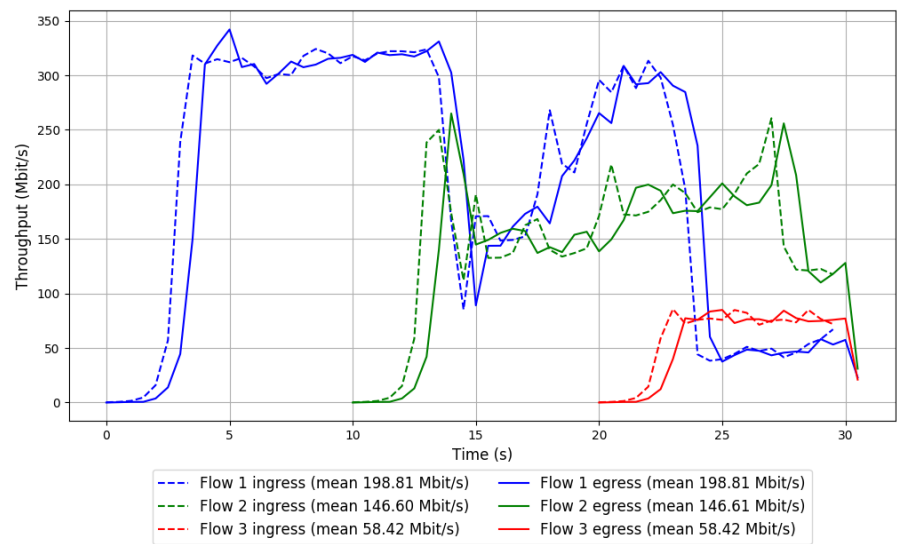


Run 5: Statistics of Copa

Start at: 2018-06-19 12:41:39
End at: 2018-06-19 12:42:09
Local clock offset: -0.076 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2018-06-19 15:19:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 315.83 Mbit/s
95th percentile per-packet one-way delay: 153.214 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 198.81 Mbit/s
95th percentile per-packet one-way delay: 154.427 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 146.61 Mbit/s
95th percentile per-packet one-way delay: 154.580 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 58.42 Mbit/s
95th percentile per-packet one-way delay: 136.771 ms
Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-06-19 13:06:33

End at: 2018-06-19 13:07:03

Local clock offset: 0.092 ms

Remote clock offset: 0.139 ms

Below is generated by plot.py at 2018-06-19 15:20:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 330.50 Mbit/s

95th percentile per-packet one-way delay: 159.007 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 240.72 Mbit/s

95th percentile per-packet one-way delay: 160.917 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 91.91 Mbit/s

95th percentile per-packet one-way delay: 139.317 ms

Loss rate: 0.00%

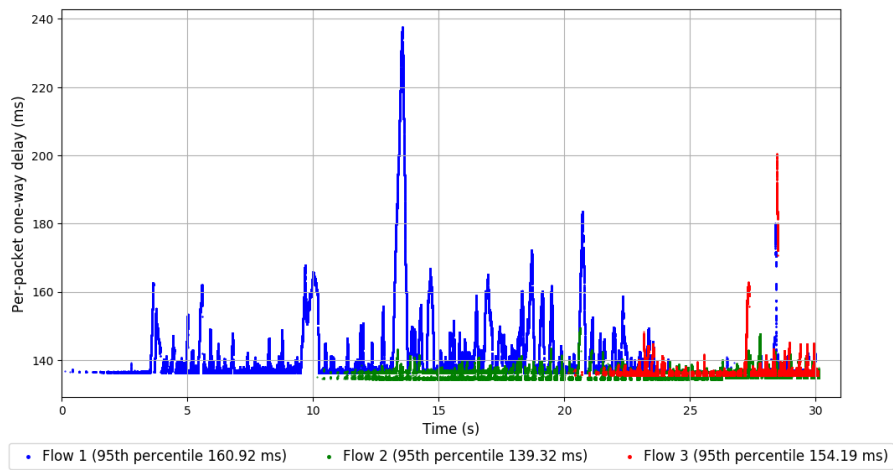
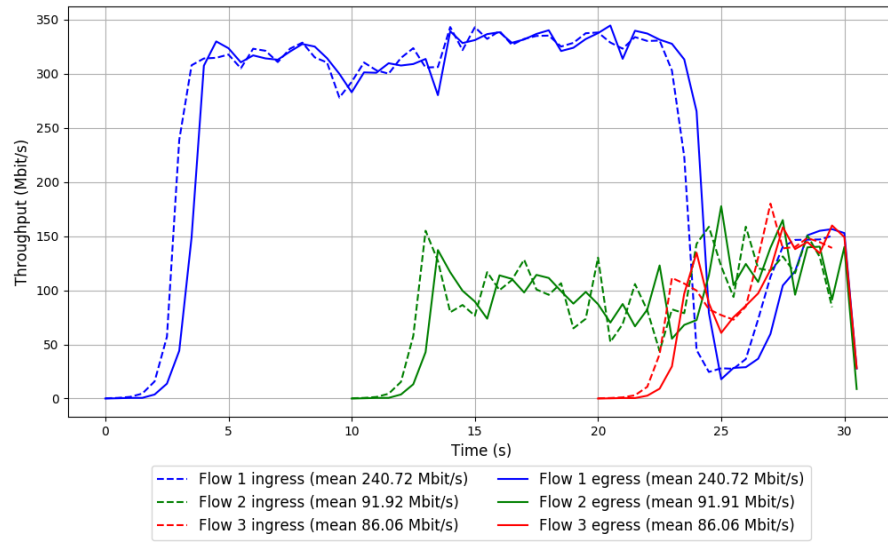
-- Flow 3:

Average throughput: 86.06 Mbit/s

95th percentile per-packet one-way delay: 154.185 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-06-19 13:31:16

End at: 2018-06-19 13:31:46

Local clock offset: -0.228 ms

Remote clock offset: 0.073 ms

Below is generated by plot.py at 2018-06-19 15:20:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 278.48 Mbit/s

95th percentile per-packet one-way delay: 156.908 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 103.70 Mbit/s

95th percentile per-packet one-way delay: 144.549 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 178.42 Mbit/s

95th percentile per-packet one-way delay: 160.663 ms

Loss rate: 0.00%

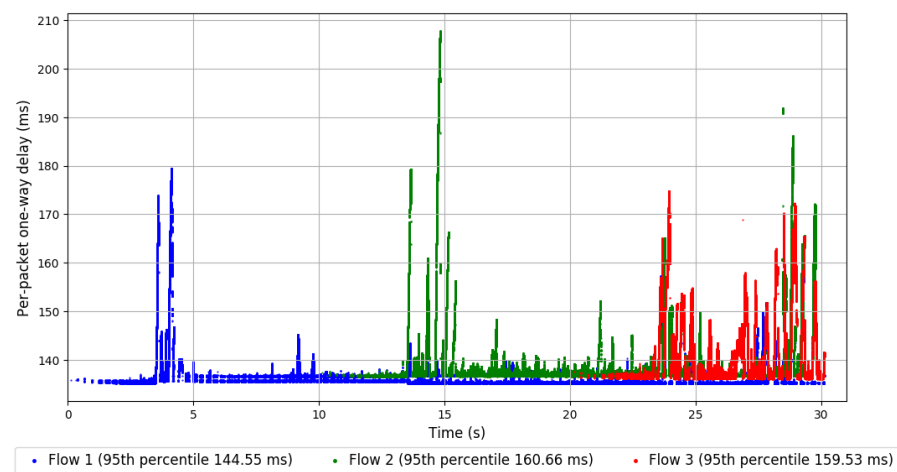
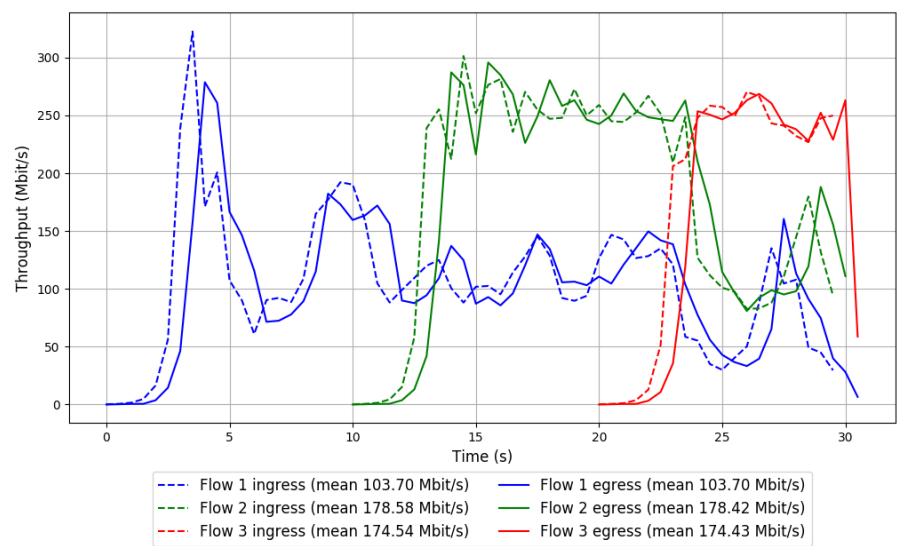
-- Flow 3:

Average throughput: 174.43 Mbit/s

95th percentile per-packet one-way delay: 159.535 ms

Loss rate: 0.07%

Run 7: Report of Copa — Data Link

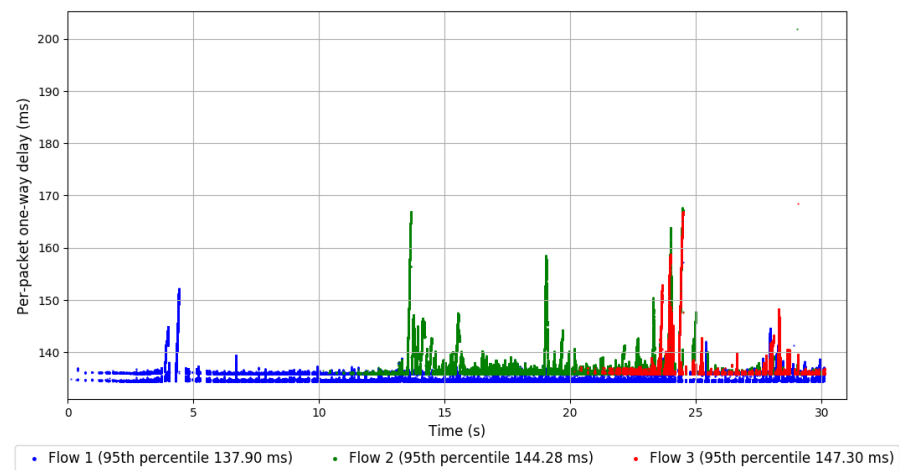
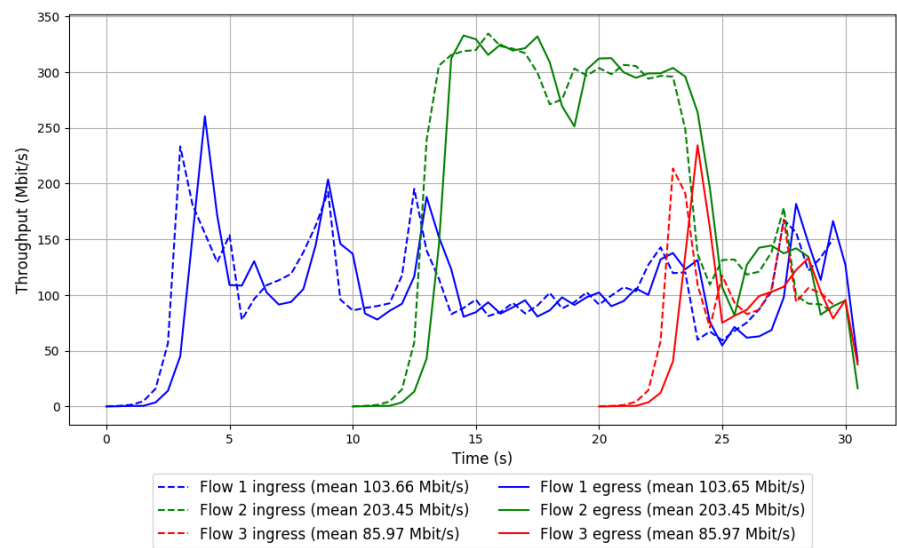


Run 8: Statistics of Copa

Start at: 2018-06-19 13:56:24
End at: 2018-06-19 13:56:54
Local clock offset: 0.045 ms
Remote clock offset: -0.379 ms

```
# Below is generated by plot.py at 2018-06-19 15:20:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 267.29 Mbit/s
95th percentile per-packet one-way delay: 143.013 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 103.65 Mbit/s
95th percentile per-packet one-way delay: 137.902 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 203.45 Mbit/s
95th percentile per-packet one-way delay: 144.278 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 85.97 Mbit/s
95th percentile per-packet one-way delay: 147.297 ms
Loss rate: 0.00%
```

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-06-19 14:20:49

End at: 2018-06-19 14:21:19

Local clock offset: -0.093 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2018-06-19 15:26:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.31 Mbit/s

95th percentile per-packet one-way delay: 147.410 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 200.44 Mbit/s

95th percentile per-packet one-way delay: 148.273 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 130.95 Mbit/s

95th percentile per-packet one-way delay: 139.359 ms

Loss rate: 0.00%

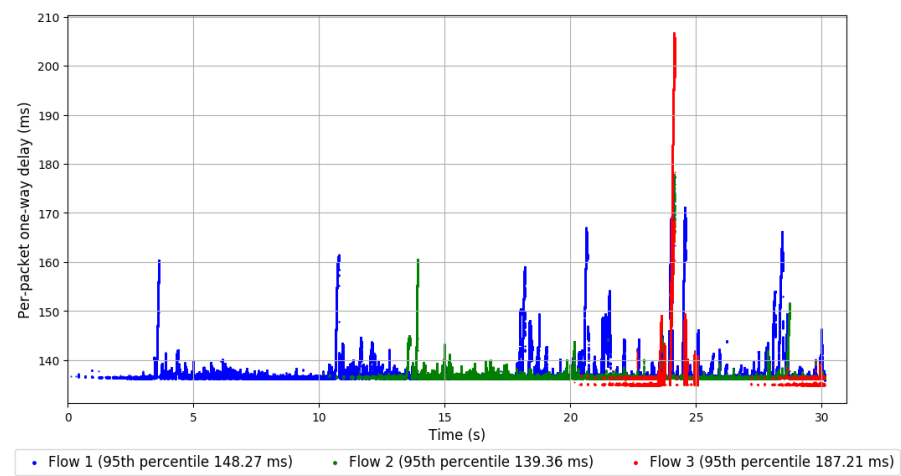
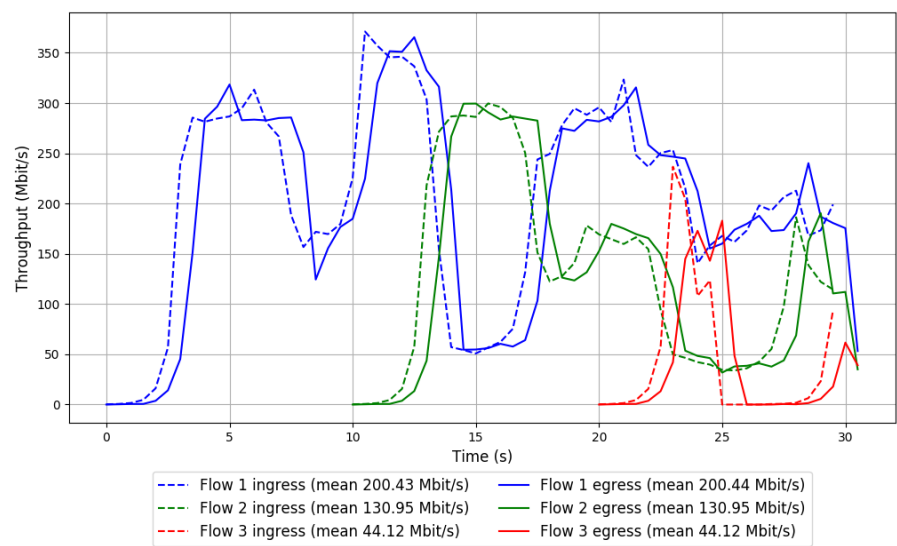
-- Flow 3:

Average throughput: 44.12 Mbit/s

95th percentile per-packet one-way delay: 187.208 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-06-19 14:46:09

End at: 2018-06-19 14:46:39

Local clock offset: -0.023 ms

Remote clock offset: 0.464 ms

Below is generated by plot.py at 2018-06-19 15:26:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 262.79 Mbit/s

95th percentile per-packet one-way delay: 166.771 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 184.61 Mbit/s

95th percentile per-packet one-way delay: 162.789 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 85.86 Mbit/s

95th percentile per-packet one-way delay: 167.332 ms

Loss rate: 0.00%

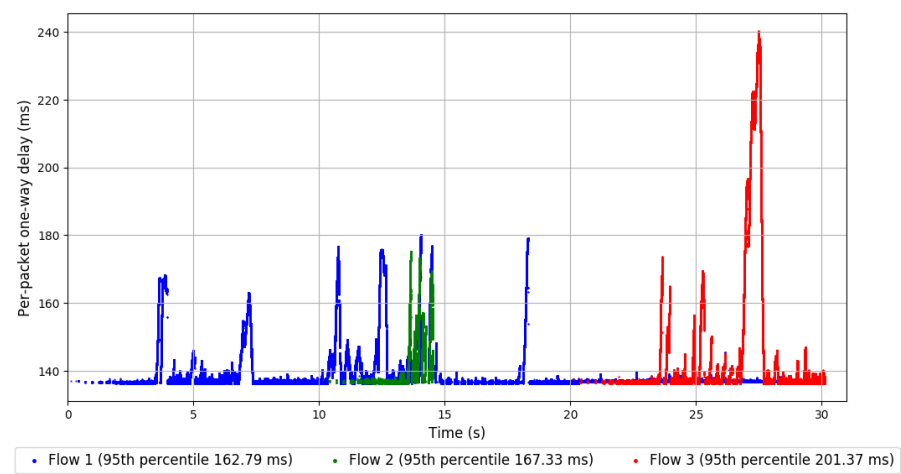
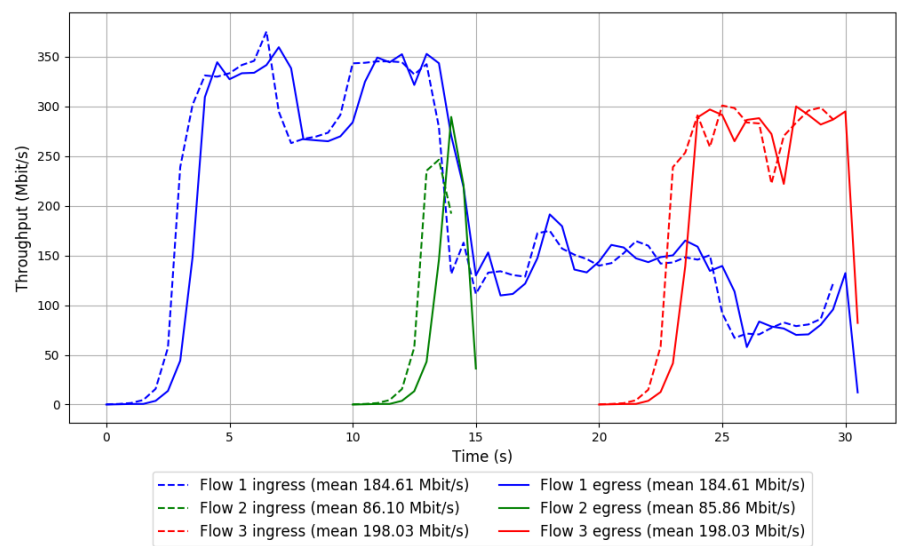
-- Flow 3:

Average throughput: 198.03 Mbit/s

95th percentile per-packet one-way delay: 201.371 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-06-19 11:03:49

End at: 2018-06-19 11:04:19

Local clock offset: 0.183 ms

Remote clock offset: 0.036 ms

Below is generated by plot.py at 2018-06-19 15:26:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 141.27 Mbit/s

95th percentile per-packet one-way delay: 147.166 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 78.88 Mbit/s

95th percentile per-packet one-way delay: 147.166 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 57.39 Mbit/s

95th percentile per-packet one-way delay: 145.639 ms

Loss rate: 0.00%

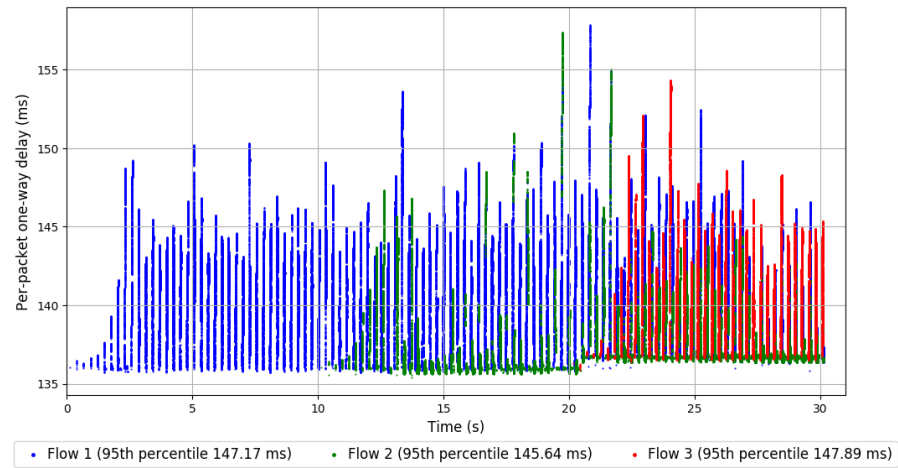
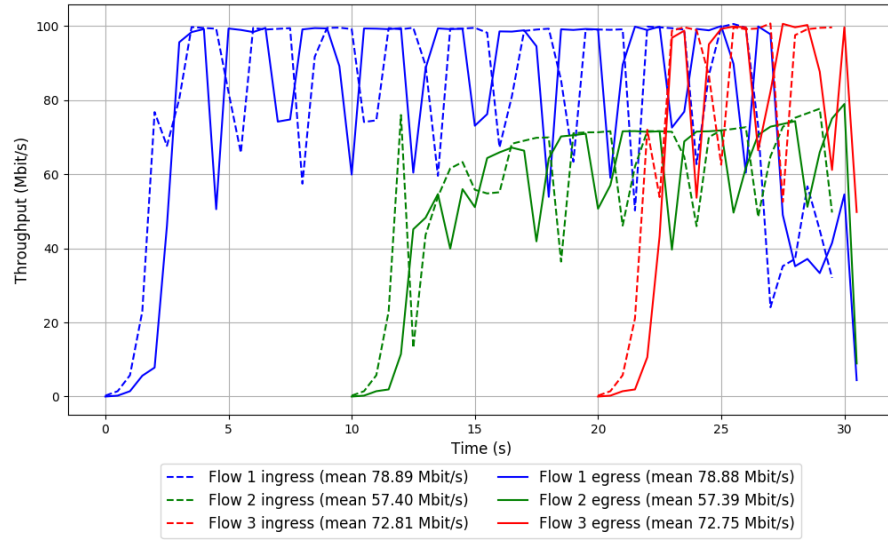
-- Flow 3:

Average throughput: 72.75 Mbit/s

95th percentile per-packet one-way delay: 147.889 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-06-19 11:28:37

End at: 2018-06-19 11:29:07

Local clock offset: 0.25 ms

Remote clock offset: 0.16 ms

Below is generated by plot.py at 2018-06-19 15:26:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.20 Mbit/s

95th percentile per-packet one-way delay: 145.343 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 47.77 Mbit/s

95th percentile per-packet one-way delay: 145.722 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 42.07 Mbit/s

95th percentile per-packet one-way delay: 144.826 ms

Loss rate: 0.00%

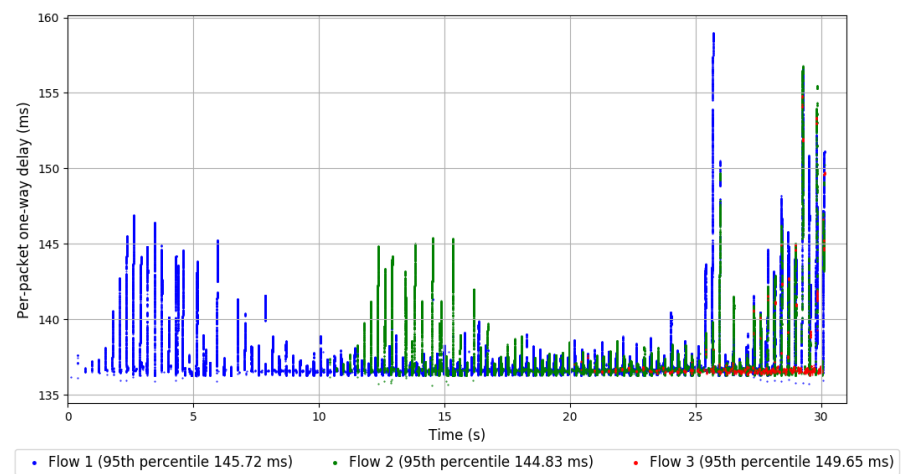
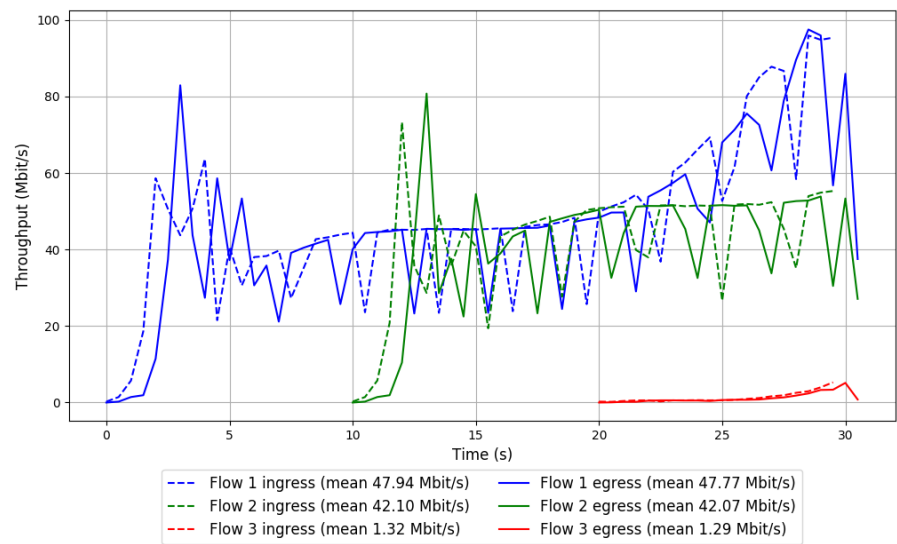
-- Flow 3:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 149.651 ms

Loss rate: 2.64%

Run 2: Report of TCP Cubic — Data Link

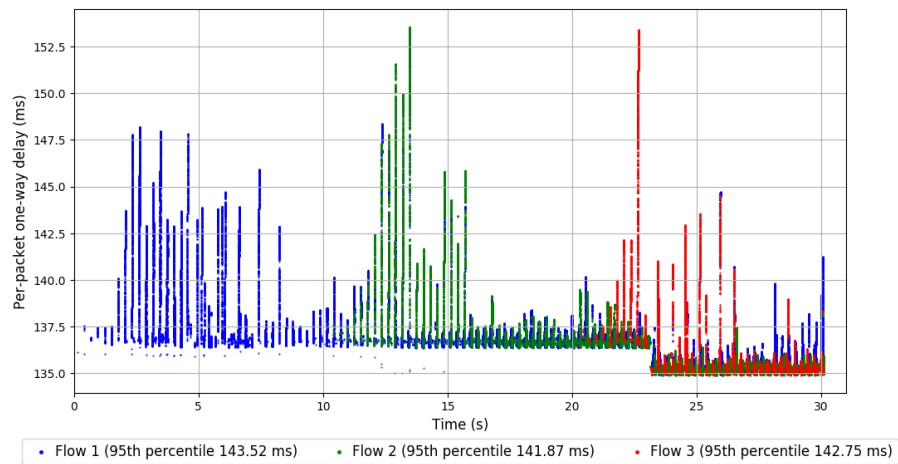
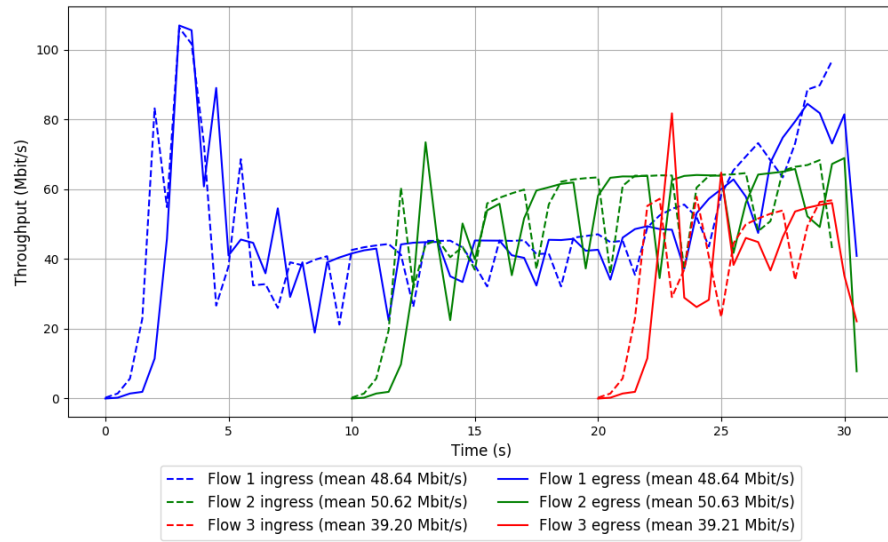


Run 3: Statistics of TCP Cubic

Start at: 2018-06-19 11:53:27
End at: 2018-06-19 11:53:57
Local clock offset: -0.025 ms
Remote clock offset: -0.049 ms

Below is generated by plot.py at 2018-06-19 15:26:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.35 Mbit/s
95th percentile per-packet one-way delay: 143.145 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.64 Mbit/s
95th percentile per-packet one-way delay: 143.517 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 50.63 Mbit/s
95th percentile per-packet one-way delay: 141.871 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 39.21 Mbit/s
95th percentile per-packet one-way delay: 142.745 ms
Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link

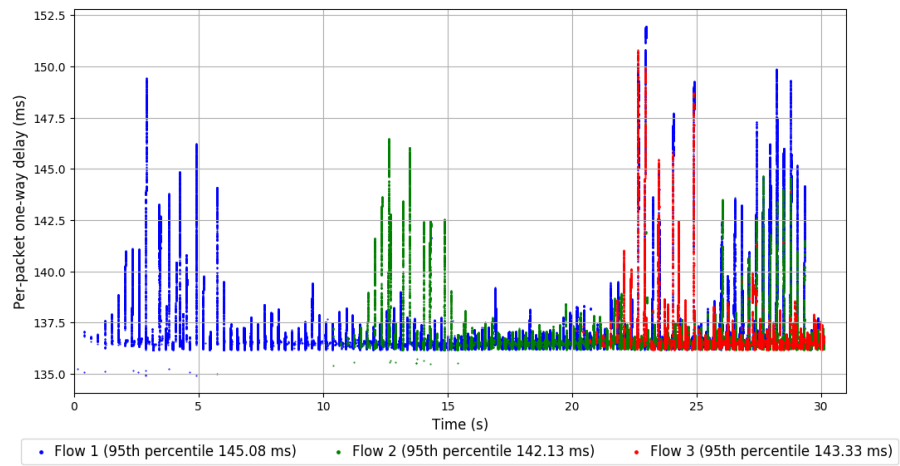
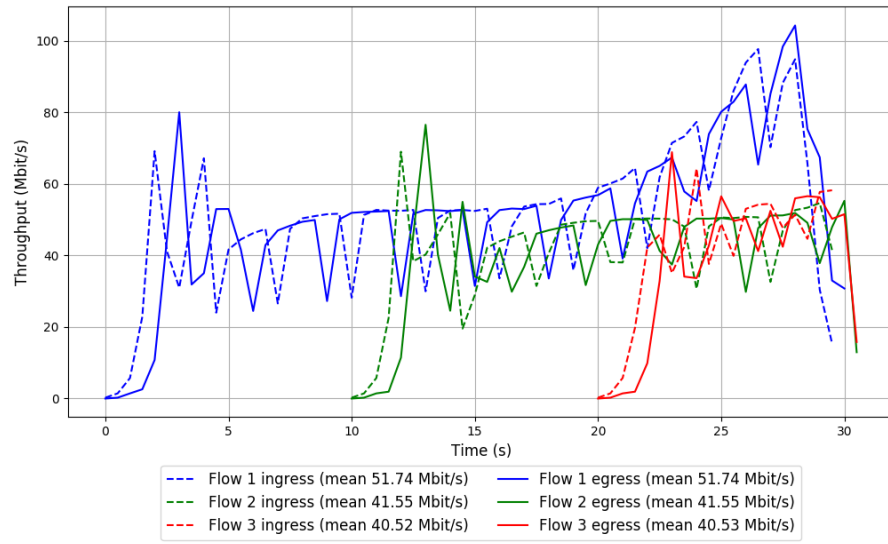


Run 4: Statistics of TCP Cubic

Start at: 2018-06-19 12:18:34
End at: 2018-06-19 12:19:04
Local clock offset: 0.009 ms
Remote clock offset: -0.054 ms

Below is generated by plot.py at 2018-06-19 15:26:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.56 Mbit/s
95th percentile per-packet one-way delay: 143.796 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 51.74 Mbit/s
95th percentile per-packet one-way delay: 145.083 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.55 Mbit/s
95th percentile per-packet one-way delay: 142.130 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 40.53 Mbit/s
95th percentile per-packet one-way delay: 143.326 ms
Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-06-19 12:43:29

End at: 2018-06-19 12:43:59

Local clock offset: -0.21 ms

Remote clock offset: 0.086 ms

Below is generated by plot.py at 2018-06-19 15:26:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 103.38 Mbit/s

95th percentile per-packet one-way delay: 146.661 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 48.50 Mbit/s

95th percentile per-packet one-way delay: 147.297 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 81.81 Mbit/s

95th percentile per-packet one-way delay: 146.423 ms

Loss rate: 0.00%

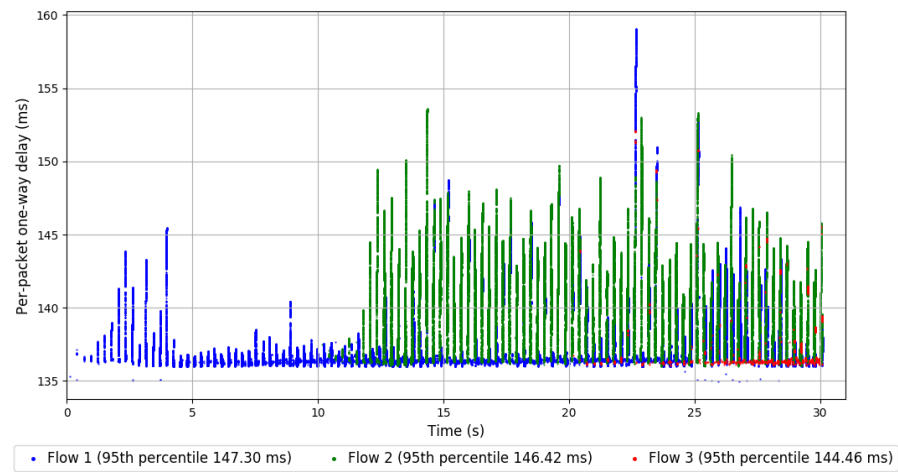
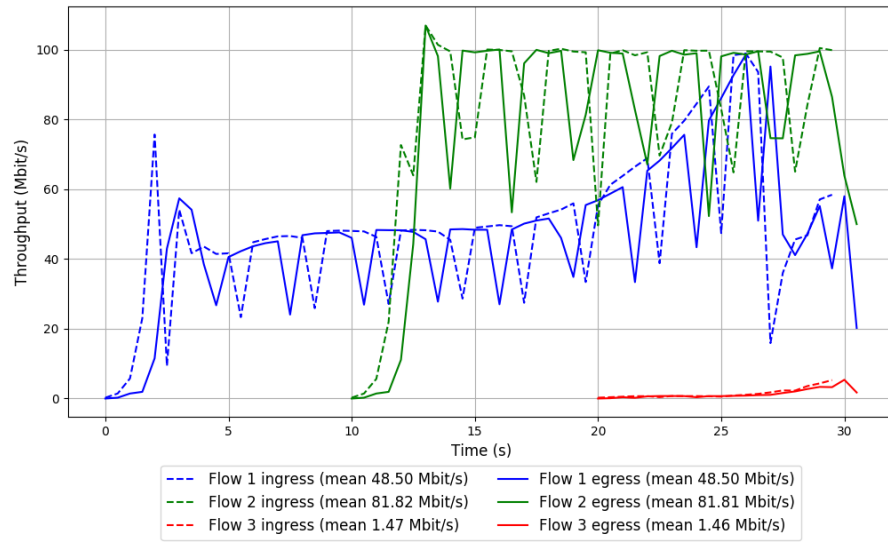
-- Flow 3:

Average throughput: 1.46 Mbit/s

95th percentile per-packet one-way delay: 144.463 ms

Loss rate: 0.49%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-06-19 13:08:23

End at: 2018-06-19 13:08:53

Local clock offset: -0.214 ms

Remote clock offset: 0.171 ms

Below is generated by plot.py at 2018-06-19 15:26:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.98 Mbit/s

95th percentile per-packet one-way delay: 147.750 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.98 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 80.90 Mbit/s

95th percentile per-packet one-way delay: 147.769 ms

Loss rate: 0.00%

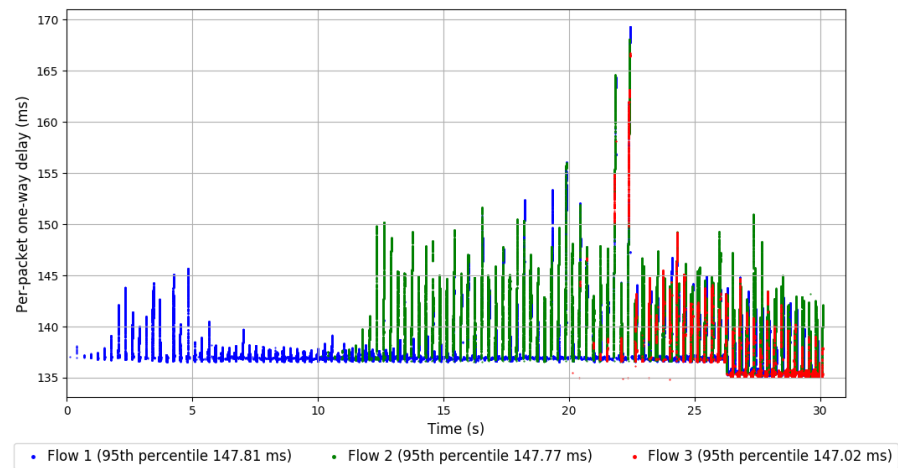
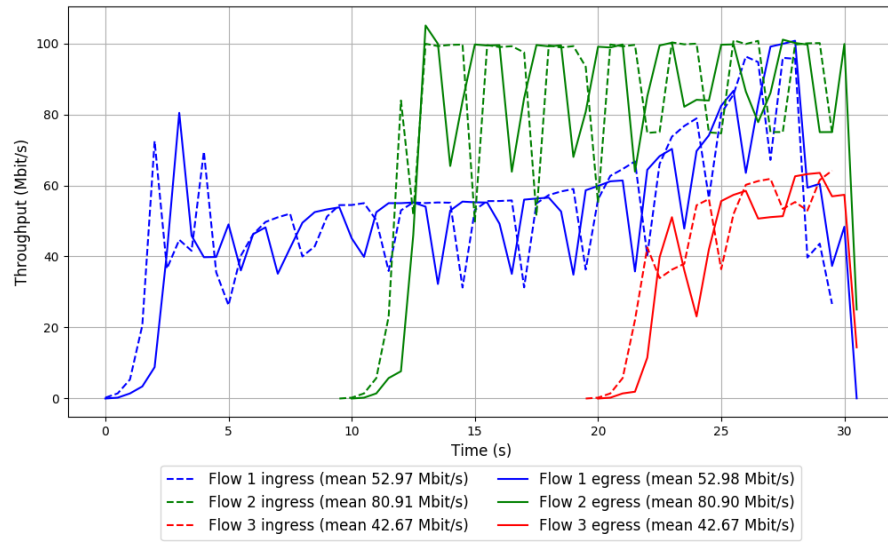
-- Flow 3:

Average throughput: 42.67 Mbit/s

95th percentile per-packet one-way delay: 147.018 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-06-19 13:33:01

End at: 2018-06-19 13:33:31

Local clock offset: -0.172 ms

Remote clock offset: 0.012 ms

Below is generated by plot.py at 2018-06-19 15:26:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 106.53 Mbit/s

95th percentile per-packet one-way delay: 145.590 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.70 Mbit/s

95th percentile per-packet one-way delay: 146.217 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 67.00 Mbit/s

95th percentile per-packet one-way delay: 144.140 ms

Loss rate: 0.00%

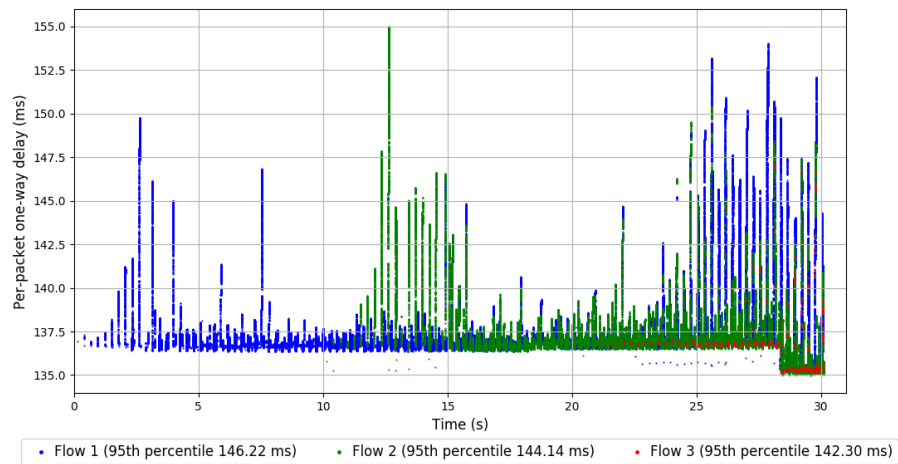
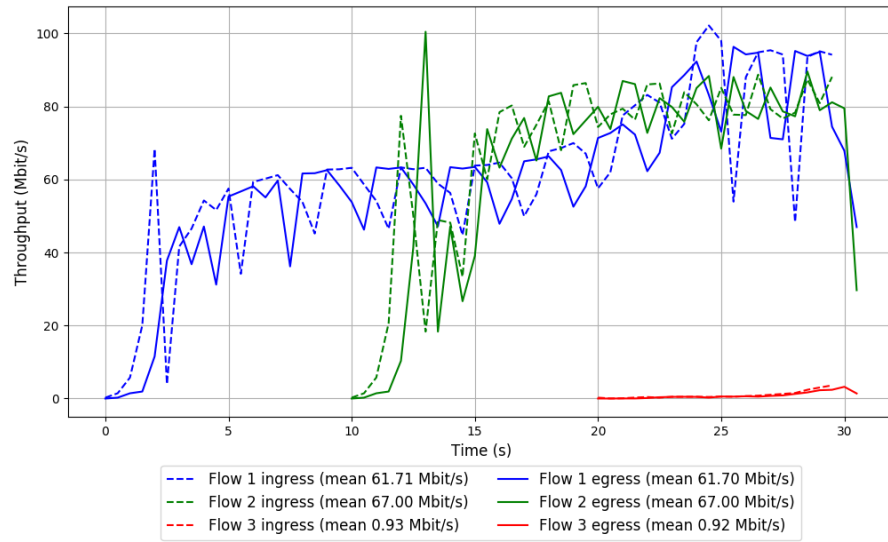
-- Flow 3:

Average throughput: 0.92 Mbit/s

95th percentile per-packet one-way delay: 142.303 ms

Loss rate: 1.30%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-06-19 13:58:08

End at: 2018-06-19 13:58:38

Local clock offset: -0.157 ms

Remote clock offset: -0.4 ms

Below is generated by plot.py at 2018-06-19 15:26:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.77 Mbit/s

95th percentile per-packet one-way delay: 147.925 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 83.99 Mbit/s

95th percentile per-packet one-way delay: 146.339 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 42.82 Mbit/s

95th percentile per-packet one-way delay: 153.057 ms

Loss rate: 0.00%

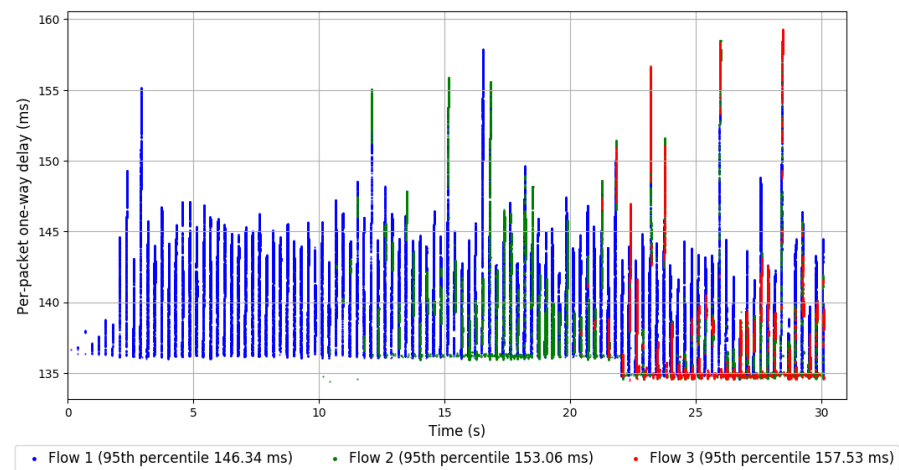
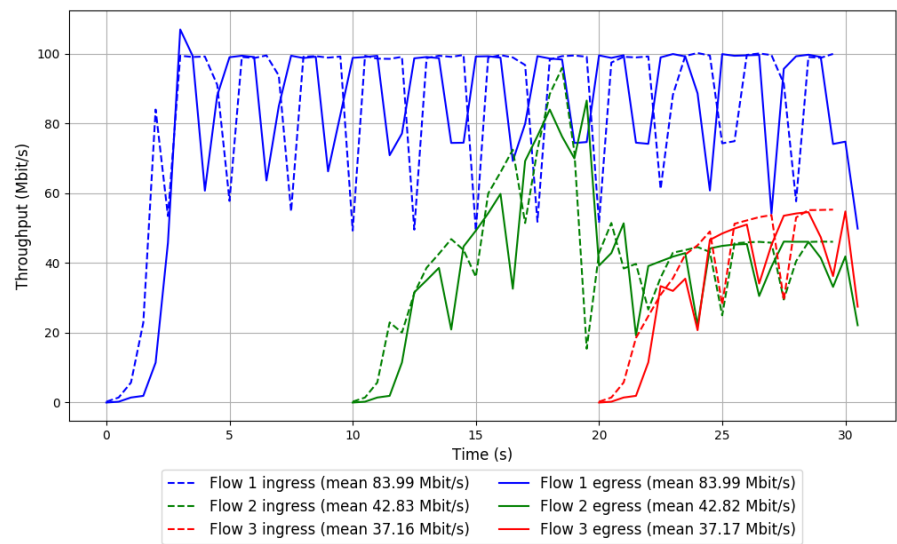
-- Flow 3:

Average throughput: 37.17 Mbit/s

95th percentile per-packet one-way delay: 157.535 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-06-19 14:22:37

End at: 2018-06-19 14:23:07

Local clock offset: -0.064 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-06-19 15:26:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.50 Mbit/s

95th percentile per-packet one-way delay: 144.139 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.11 Mbit/s

95th percentile per-packet one-way delay: 144.623 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.87 Mbit/s

95th percentile per-packet one-way delay: 143.821 ms

Loss rate: 0.00%

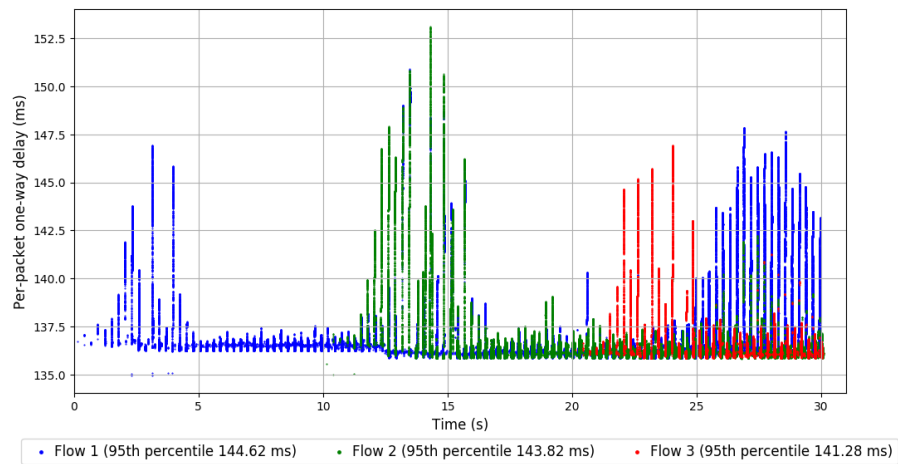
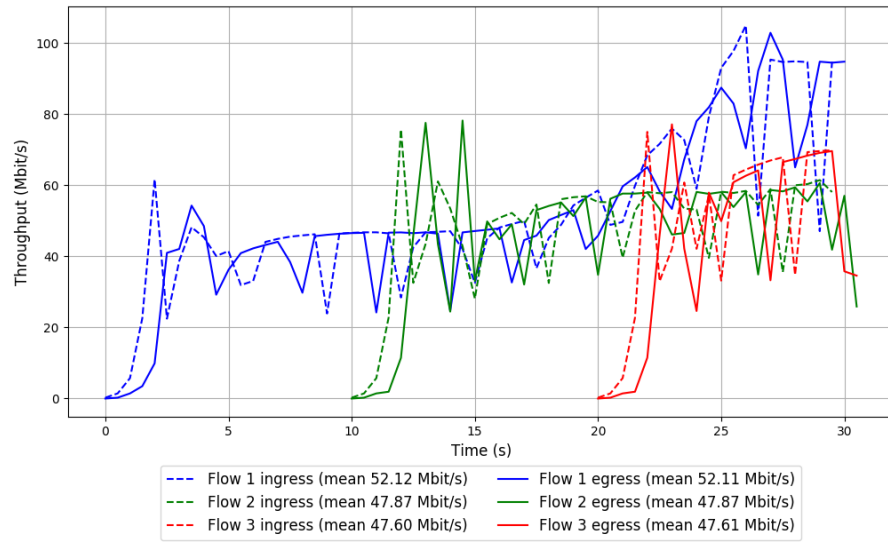
-- Flow 3:

Average throughput: 47.61 Mbit/s

95th percentile per-packet one-way delay: 141.275 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-06-19 14:47:53

End at: 2018-06-19 14:48:23

Local clock offset: 0.19 ms

Remote clock offset: 0.444 ms

Below is generated by plot.py at 2018-06-19 15:26:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.14 Mbit/s

95th percentile per-packet one-way delay: 142.909 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 66.52 Mbit/s

95th percentile per-packet one-way delay: 143.460 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 70.78 Mbit/s

95th percentile per-packet one-way delay: 141.728 ms

Loss rate: 0.00%

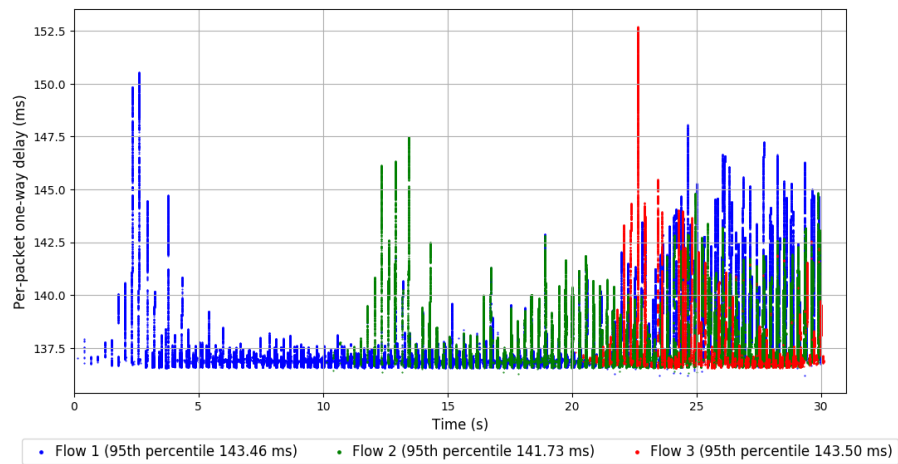
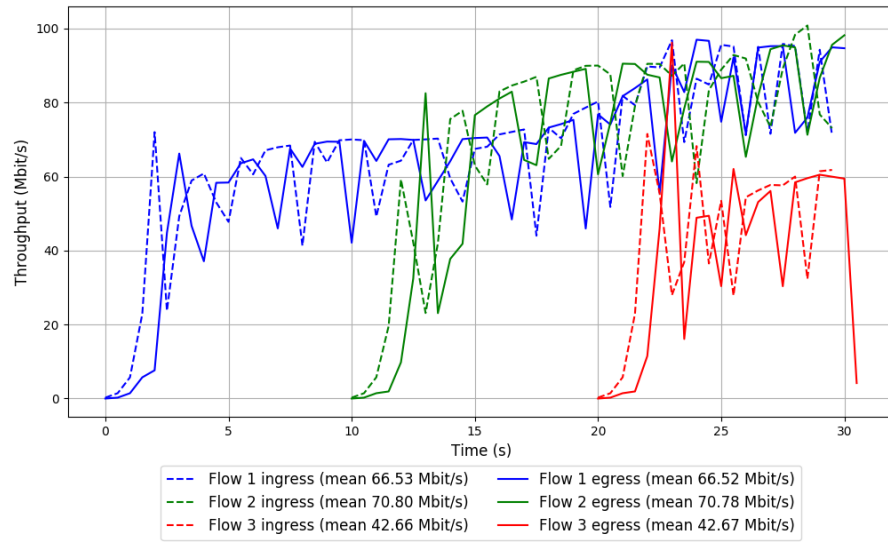
-- Flow 3:

Average throughput: 42.67 Mbit/s

95th percentile per-packet one-way delay: 143.504 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-06-19 10:56:46

End at: 2018-06-19 10:57:16

Local clock offset: 0.33 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-06-19 15:46:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 1144.62 Mbit/s

95th percentile per-packet one-way delay: 270.196 ms

Loss rate: 3.55%

-- Flow 1:

Average throughput: 611.66 Mbit/s

95th percentile per-packet one-way delay: 297.308 ms

Loss rate: 5.42%

-- Flow 2:

Average throughput: 569.43 Mbit/s

95th percentile per-packet one-way delay: 207.913 ms

Loss rate: 1.81%

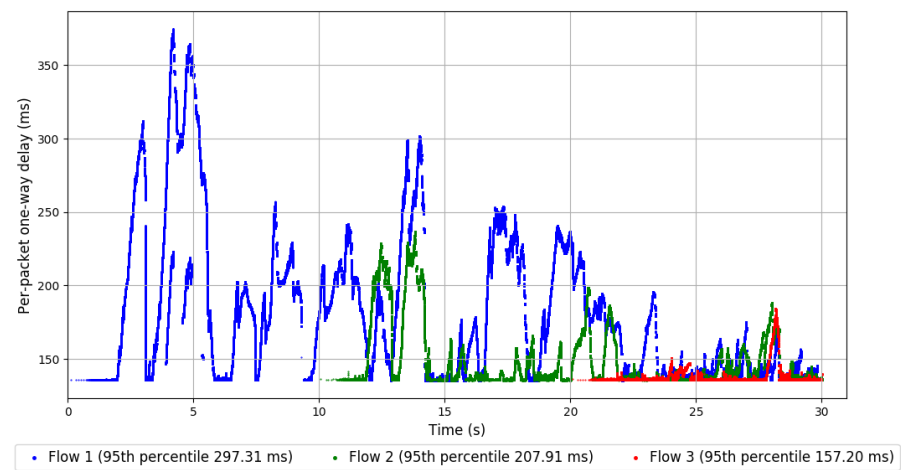
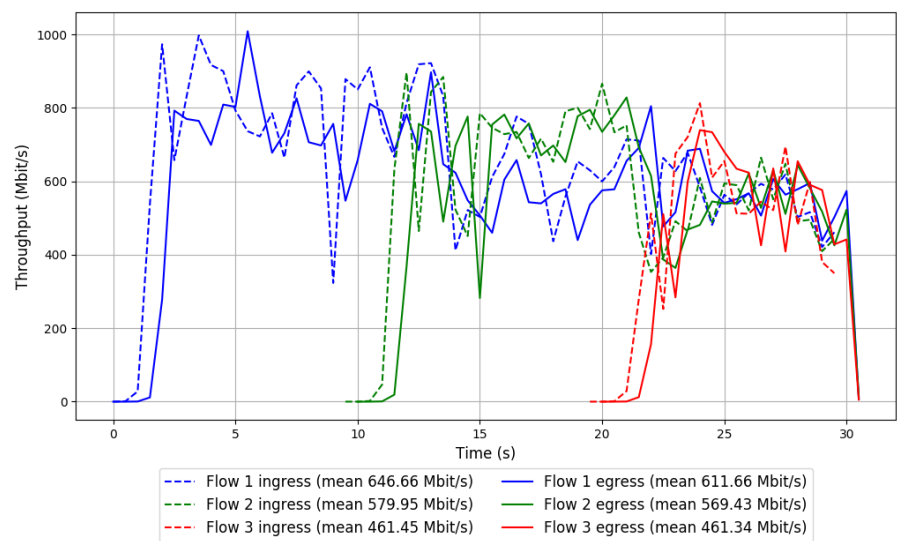
-- Flow 3:

Average throughput: 461.34 Mbit/s

95th percentile per-packet one-way delay: 157.200 ms

Loss rate: 0.03%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-06-19 11:21:50

End at: 2018-06-19 11:22:20

Local clock offset: 0.331 ms

Remote clock offset: 0.09 ms

Below is generated by plot.py at 2018-06-19 15:46:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 1089.84 Mbit/s

95th percentile per-packet one-way delay: 282.794 ms

Loss rate: 1.83%

-- Flow 1:

Average throughput: 598.76 Mbit/s

95th percentile per-packet one-way delay: 271.398 ms

Loss rate: 2.16%

-- Flow 2:

Average throughput: 518.06 Mbit/s

95th percentile per-packet one-way delay: 319.121 ms

Loss rate: 2.00%

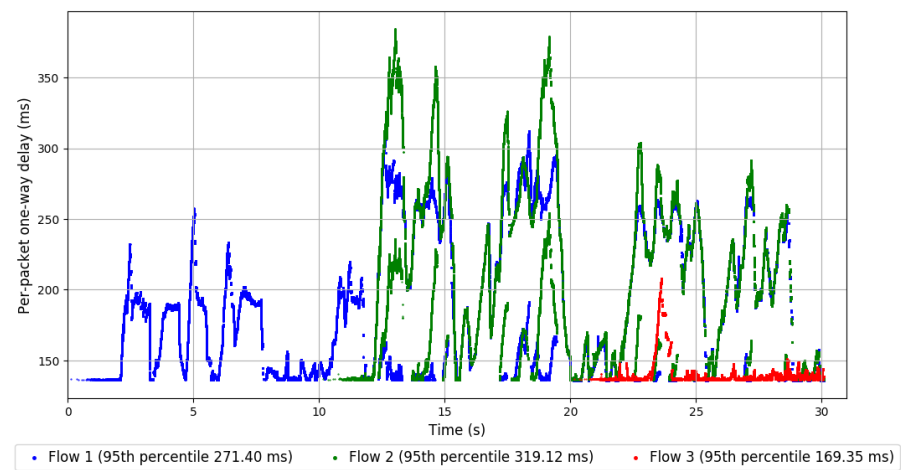
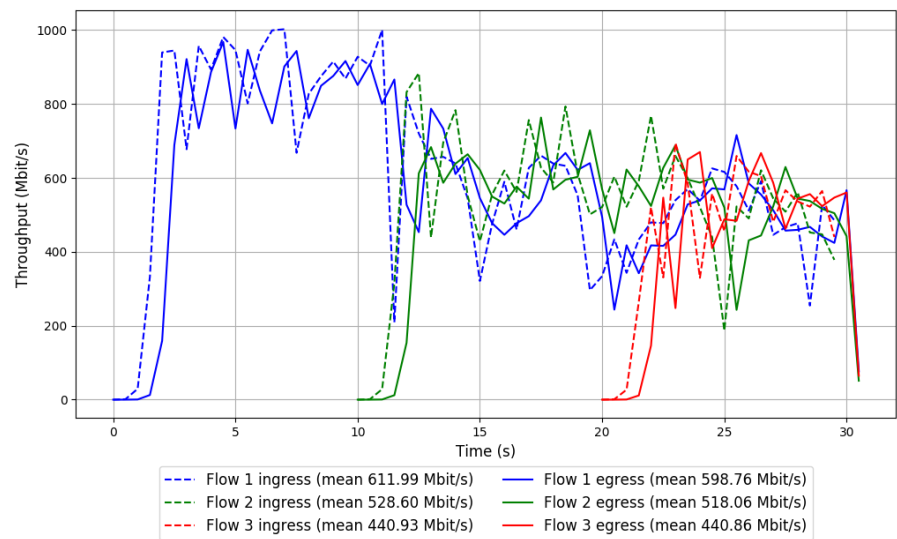
-- Flow 3:

Average throughput: 440.86 Mbit/s

95th percentile per-packet one-way delay: 169.353 ms

Loss rate: 0.00%

Run 2: Report of FillP — Data Link

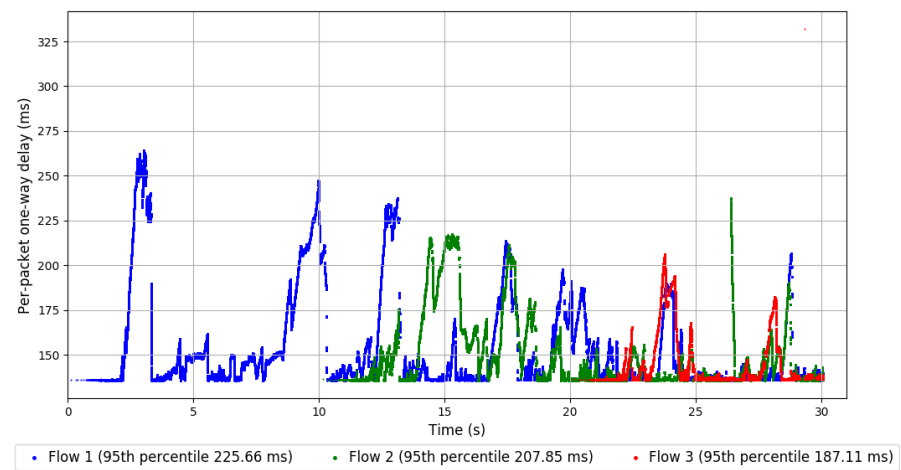
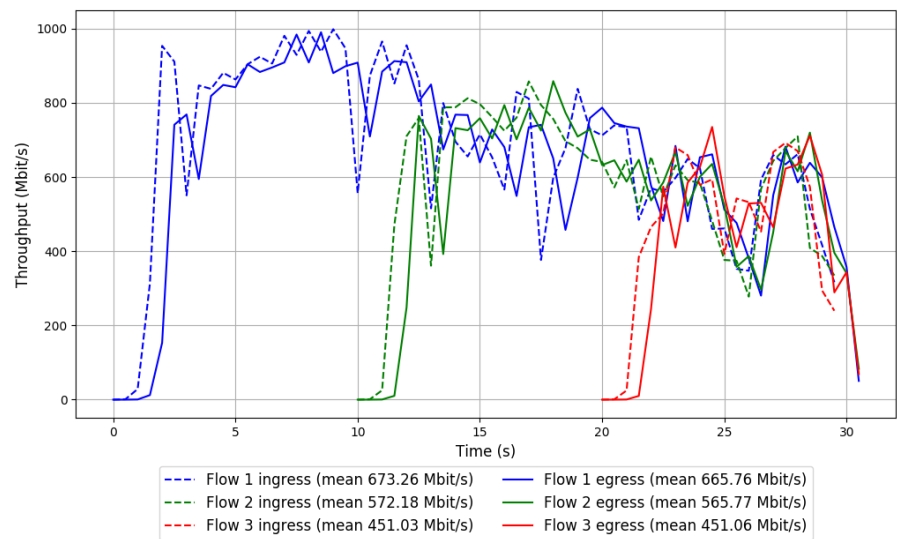


Run 3: Statistics of FillP

Start at: 2018-06-19 11:46:40
End at: 2018-06-19 11:47:10
Local clock offset: 0.114 ms
Remote clock offset: -0.007 ms

Below is generated by plot.py at 2018-06-19 15:47:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 1191.71 Mbit/s
95th percentile per-packet one-way delay: 211.961 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 665.76 Mbit/s
95th percentile per-packet one-way delay: 225.662 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 565.77 Mbit/s
95th percentile per-packet one-way delay: 207.847 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 451.06 Mbit/s
95th percentile per-packet one-way delay: 187.106 ms
Loss rate: 0.00%

Run 3: Report of FillP — Data Link

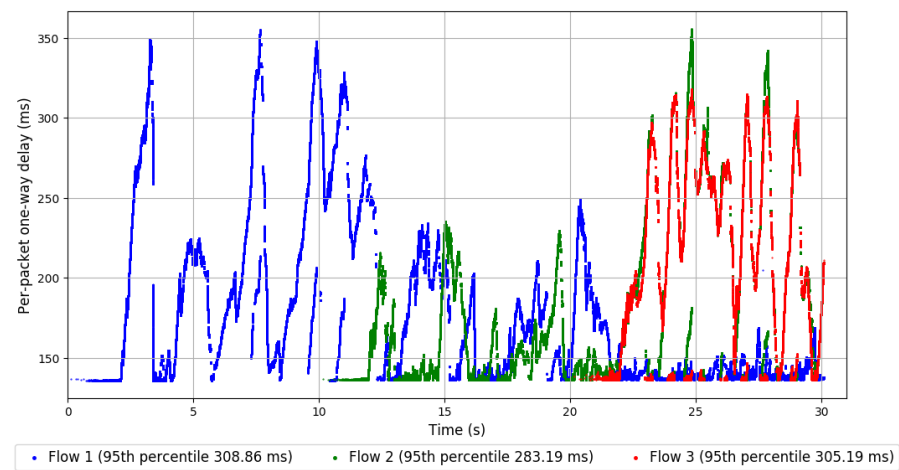
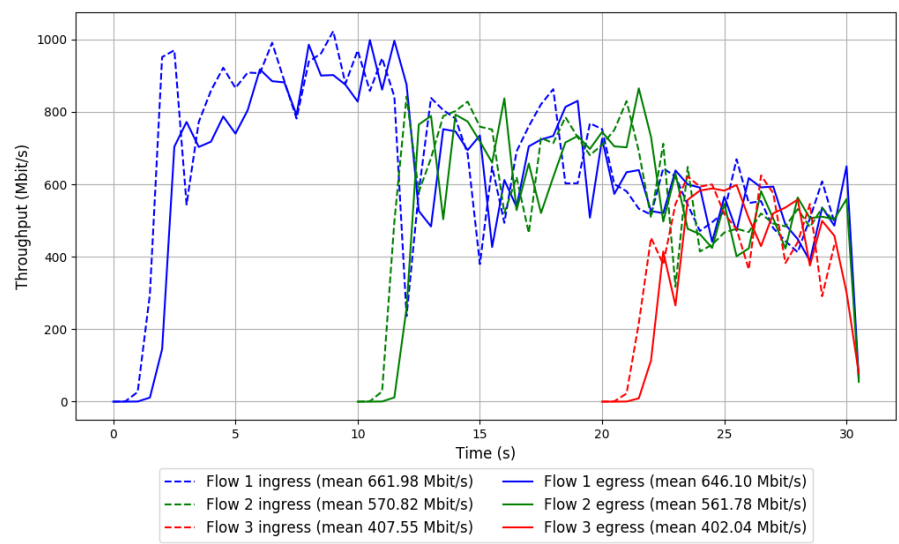


Run 4: Statistics of FillP

Start at: 2018-06-19 12:11:39
End at: 2018-06-19 12:12:09
Local clock offset: 0.178 ms
Remote clock offset: -0.089 ms

Below is generated by plot.py at 2018-06-19 15:47:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 1153.12 Mbit/s
95th percentile per-packet one-way delay: 299.614 ms
Loss rate: 2.01%
-- Flow 1:
Average throughput: 646.10 Mbit/s
95th percentile per-packet one-way delay: 308.861 ms
Loss rate: 2.40%
-- Flow 2:
Average throughput: 561.78 Mbit/s
95th percentile per-packet one-way delay: 283.195 ms
Loss rate: 1.58%
-- Flow 3:
Average throughput: 402.04 Mbit/s
95th percentile per-packet one-way delay: 305.186 ms
Loss rate: 1.36%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-06-19 12:36:37

End at: 2018-06-19 12:37:07

Local clock offset: -0.272 ms

Remote clock offset: 0.027 ms

Below is generated by plot.py at 2018-06-19 15:47:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 1176.44 Mbit/s

95th percentile per-packet one-way delay: 194.832 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 677.31 Mbit/s

95th percentile per-packet one-way delay: 202.105 ms

Loss rate: 1.30%

-- Flow 2:

Average throughput: 526.17 Mbit/s

95th percentile per-packet one-way delay: 168.679 ms

Loss rate: 0.01%

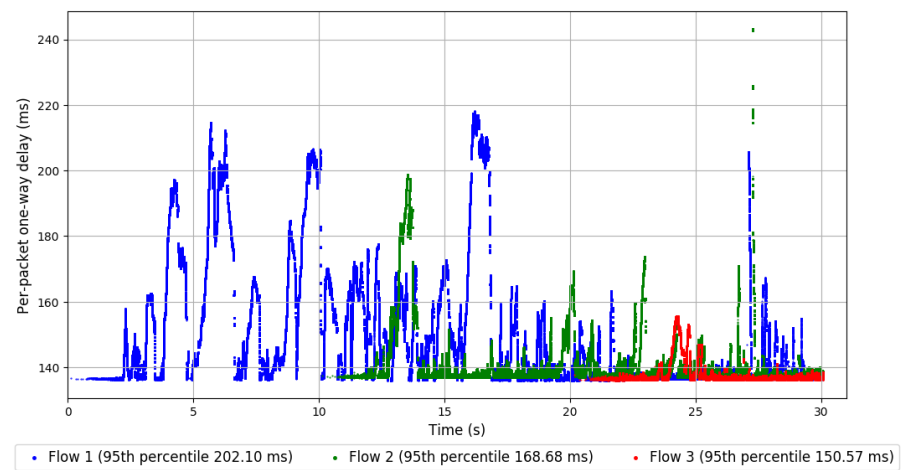
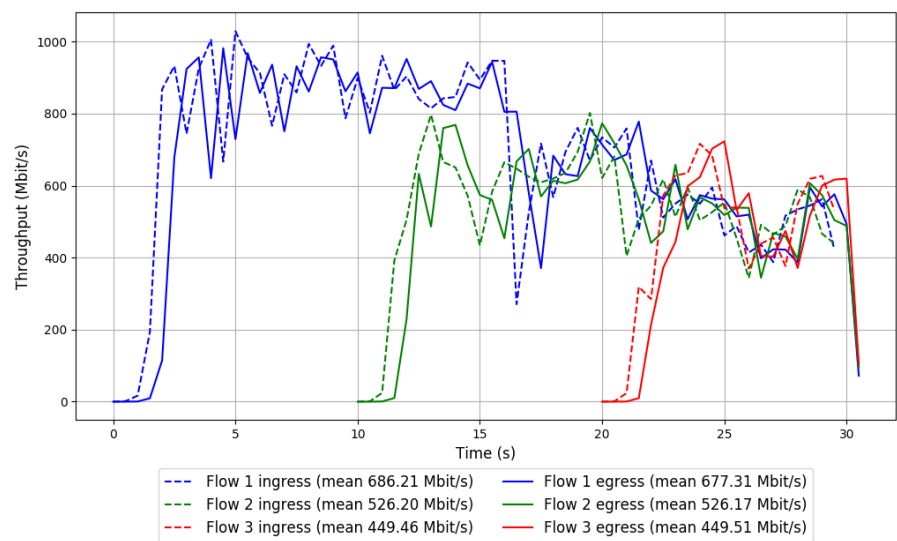
-- Flow 3:

Average throughput: 449.51 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-06-19 13:01:35

End at: 2018-06-19 13:02:05

Local clock offset: 0.24 ms

Remote clock offset: 0.127 ms

Below is generated by plot.py at 2018-06-19 15:47:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 1128.00 Mbit/s

95th percentile per-packet one-way delay: 219.708 ms

Loss rate: 1.93%

-- Flow 1:

Average throughput: 617.03 Mbit/s

95th percentile per-packet one-way delay: 274.157 ms

Loss rate: 2.61%

-- Flow 2:

Average throughput: 544.41 Mbit/s

95th percentile per-packet one-way delay: 207.925 ms

Loss rate: 1.47%

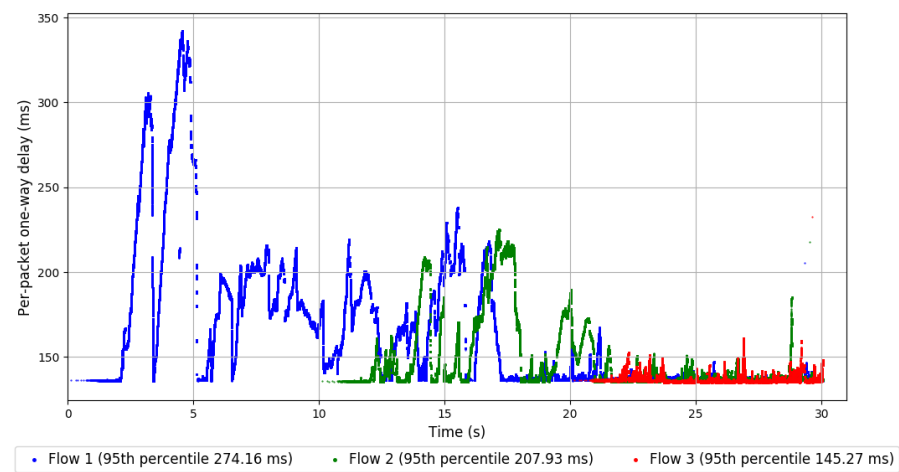
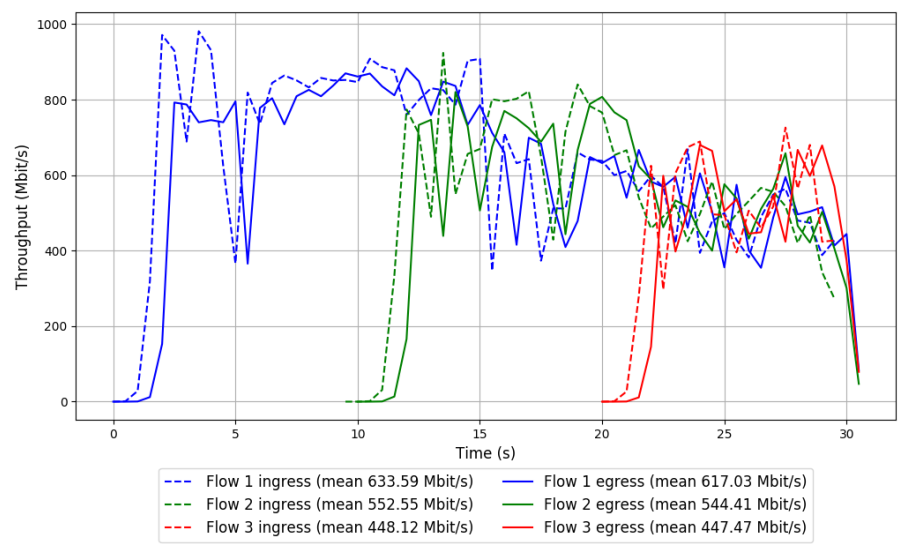
-- Flow 3:

Average throughput: 447.47 Mbit/s

95th percentile per-packet one-way delay: 145.272 ms

Loss rate: 0.15%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-06-19 13:26:13

End at: 2018-06-19 13:26:43

Local clock offset: -0.064 ms

Remote clock offset: 0.463 ms

Below is generated by plot.py at 2018-06-19 15:53:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 1246.95 Mbit/s

95th percentile per-packet one-way delay: 192.044 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 700.30 Mbit/s

95th percentile per-packet one-way delay: 193.350 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 595.69 Mbit/s

95th percentile per-packet one-way delay: 191.822 ms

Loss rate: 0.08%

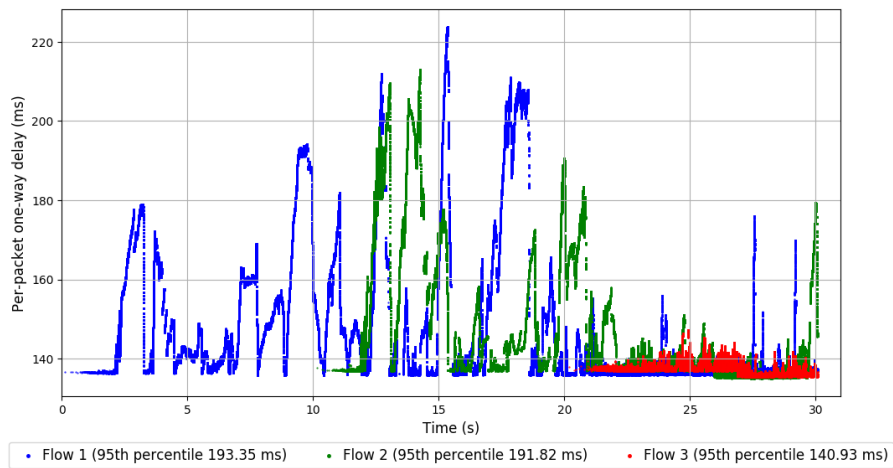
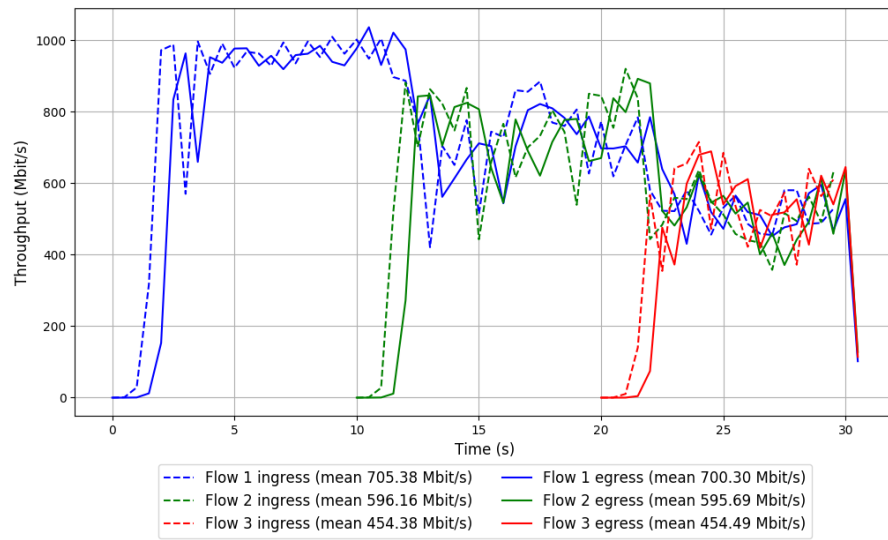
-- Flow 3:

Average throughput: 454.49 Mbit/s

95th percentile per-packet one-way delay: 140.932 ms

Loss rate: 0.00%

Run 7: Report of FillP — Data Link

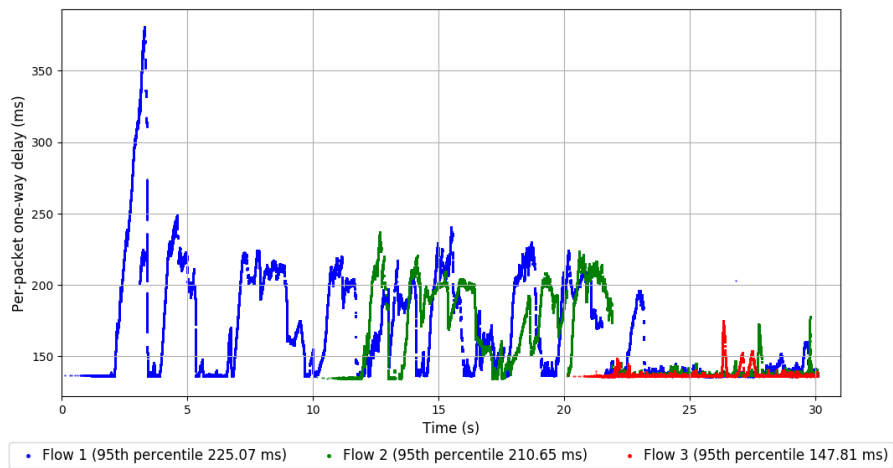
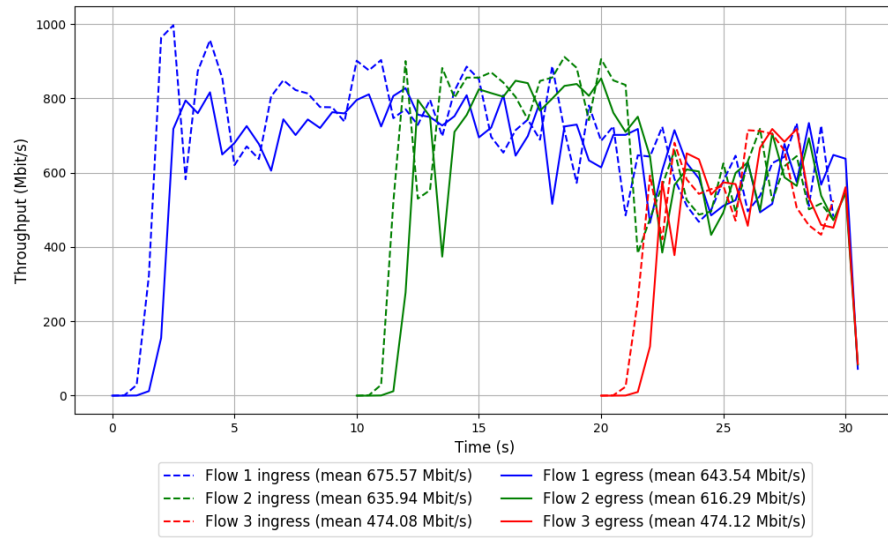


Run 8: Statistics of FillP

Start at: 2018-06-19 13:50:59
End at: 2018-06-19 13:51:29
Local clock offset: -0.016 ms
Remote clock offset: -0.431 ms

Below is generated by plot.py at 2018-06-19 15:53:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 1210.80 Mbit/s
95th percentile per-packet one-way delay: 217.978 ms
Loss rate: 3.59%
-- Flow 1:
Average throughput: 643.54 Mbit/s
95th percentile per-packet one-way delay: 225.071 ms
Loss rate: 4.74%
-- Flow 2:
Average throughput: 616.29 Mbit/s
95th percentile per-packet one-way delay: 210.653 ms
Loss rate: 3.08%
-- Flow 3:
Average throughput: 474.12 Mbit/s
95th percentile per-packet one-way delay: 147.807 ms
Loss rate: 0.00%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-06-19 14:15:59

End at: 2018-06-19 14:16:29

Local clock offset: 0.028 ms

Remote clock offset: 0.067 ms

Below is generated by plot.py at 2018-06-19 16:12:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 1235.58 Mbit/s

95th percentile per-packet one-way delay: 208.814 ms

Loss rate: 2.31%

-- Flow 1:

Average throughput: 675.15 Mbit/s

95th percentile per-packet one-way delay: 213.700 ms

Loss rate: 3.16%

-- Flow 2:

Average throughput: 594.38 Mbit/s

95th percentile per-packet one-way delay: 202.240 ms

Loss rate: 1.77%

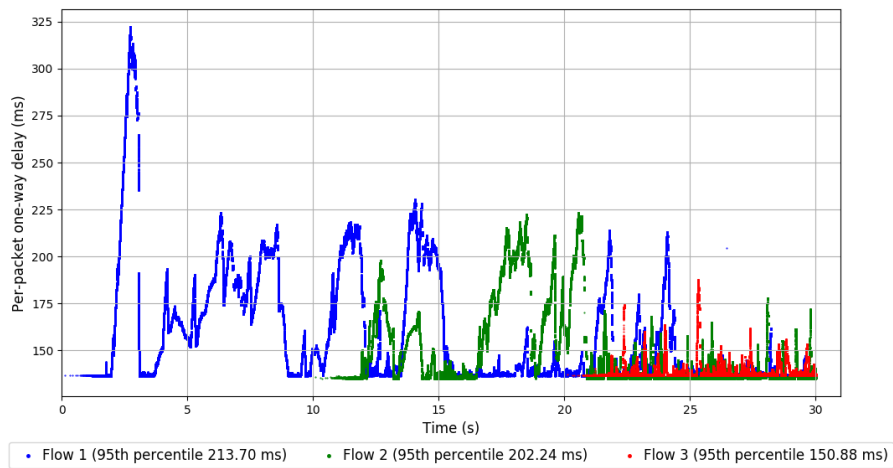
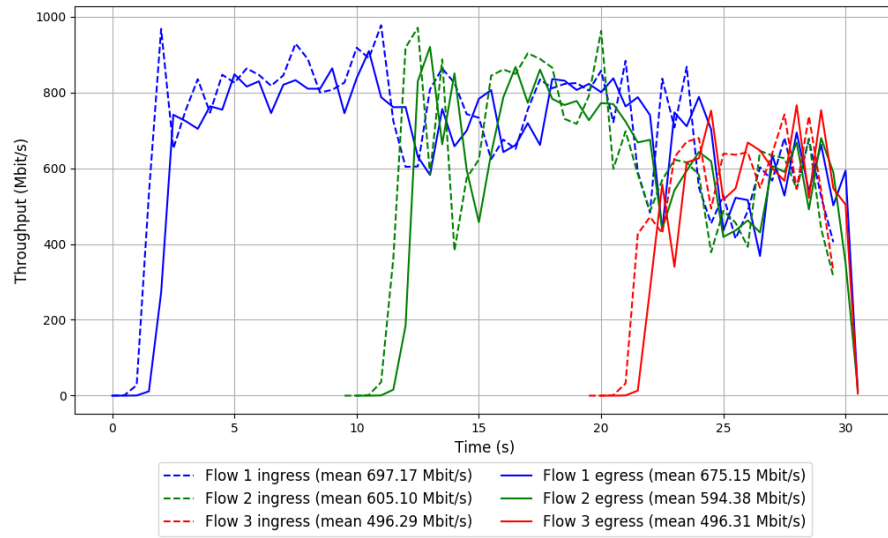
-- Flow 3:

Average throughput: 496.31 Mbit/s

95th percentile per-packet one-way delay: 150.880 ms

Loss rate: 0.03%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-06-19 14:40:46

End at: 2018-06-19 14:41:16

Local clock offset: 0.328 ms

Remote clock offset: 0.066 ms

Below is generated by plot.py at 2018-06-19 16:12:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 1216.27 Mbit/s

95th percentile per-packet one-way delay: 207.780 ms

Loss rate: 2.40%

-- Flow 1:

Average throughput: 638.68 Mbit/s

95th percentile per-packet one-way delay: 208.616 ms

Loss rate: 3.22%

-- Flow 2:

Average throughput: 621.08 Mbit/s

95th percentile per-packet one-way delay: 208.025 ms

Loss rate: 2.03%

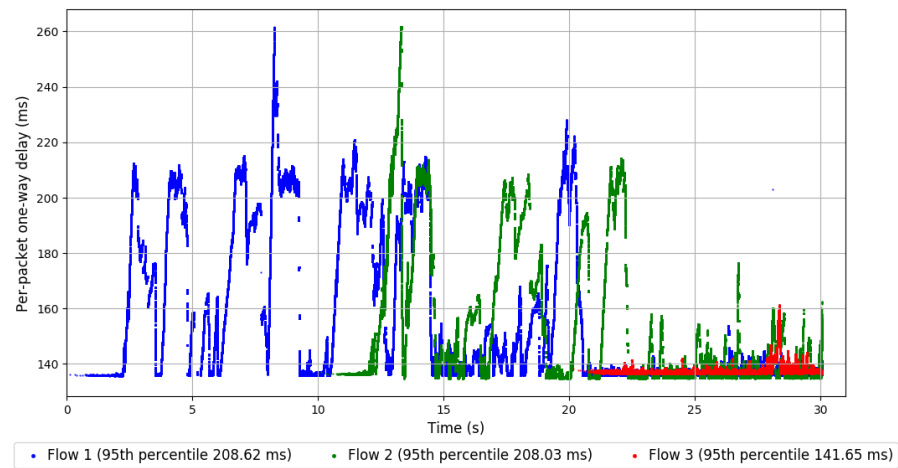
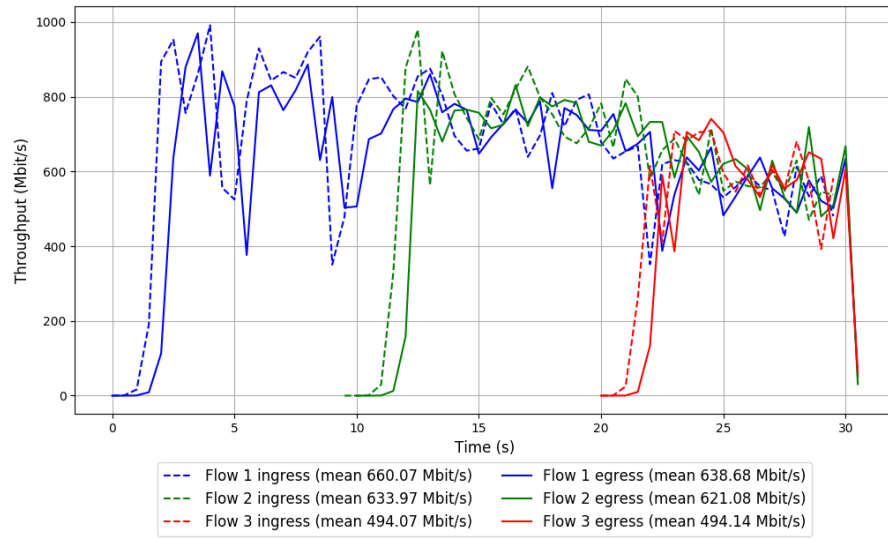
-- Flow 3:

Average throughput: 494.14 Mbit/s

95th percentile per-packet one-way delay: 141.650 ms

Loss rate: 0.00%

Run 10: Report of FillP — Data Link

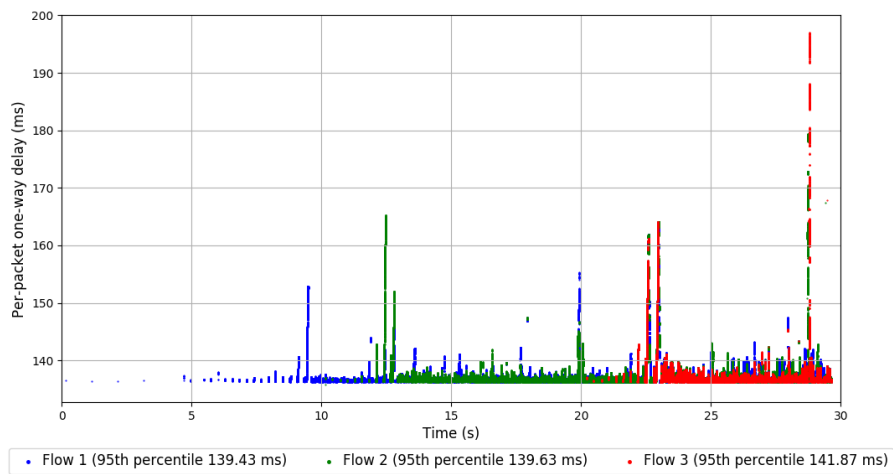
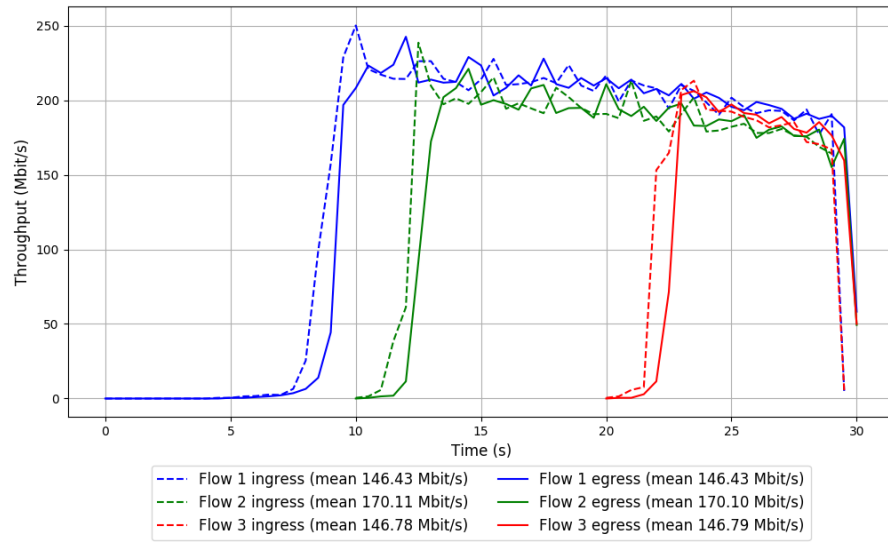


Run 1: Statistics of Indigo

Start at: 2018-06-19 11:05:13
End at: 2018-06-19 11:05:43
Local clock offset: 0.201 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2018-06-19 16:12:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 305.76 Mbit/s
95th percentile per-packet one-way delay: 139.684 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 146.43 Mbit/s
95th percentile per-packet one-way delay: 139.433 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 170.10 Mbit/s
95th percentile per-packet one-way delay: 139.628 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 146.79 Mbit/s
95th percentile per-packet one-way delay: 141.874 ms
Loss rate: 0.00%

Run 1: Report of Indigo — Data Link

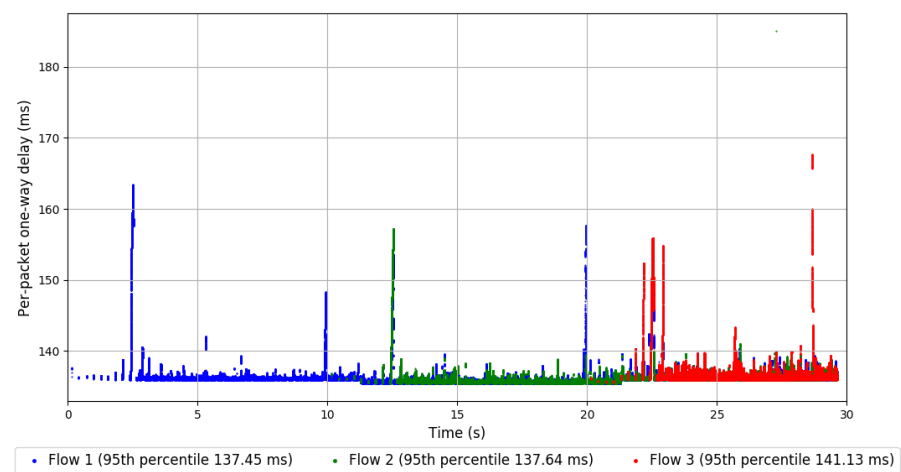
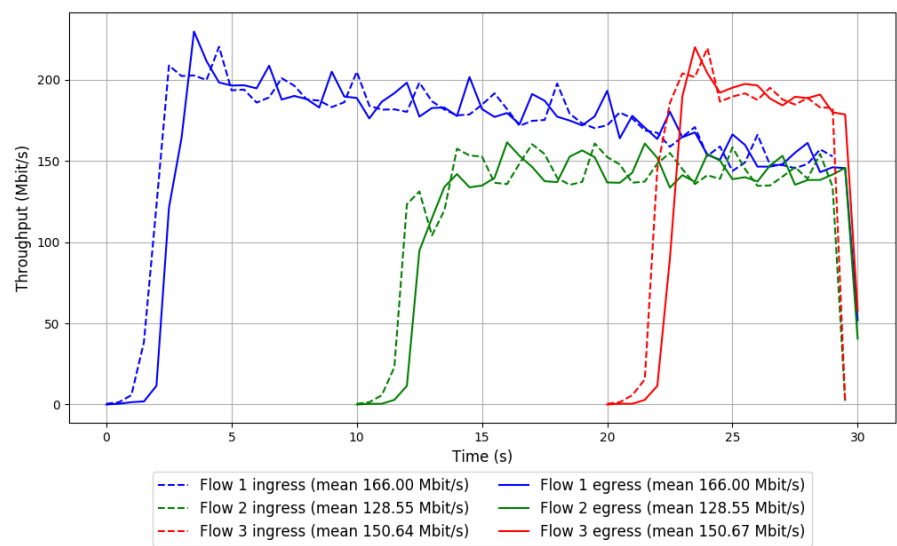


Run 2: Statistics of Indigo

Start at: 2018-06-19 11:29:58
End at: 2018-06-19 11:30:28
Local clock offset: 0.277 ms
Remote clock offset: -0.163 ms

Below is generated by plot.py at 2018-06-19 16:12:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 299.34 Mbit/s
95th percentile per-packet one-way delay: 137.879 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 166.00 Mbit/s
95th percentile per-packet one-way delay: 137.450 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 128.55 Mbit/s
95th percentile per-packet one-way delay: 137.642 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 150.67 Mbit/s
95th percentile per-packet one-way delay: 141.131 ms
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

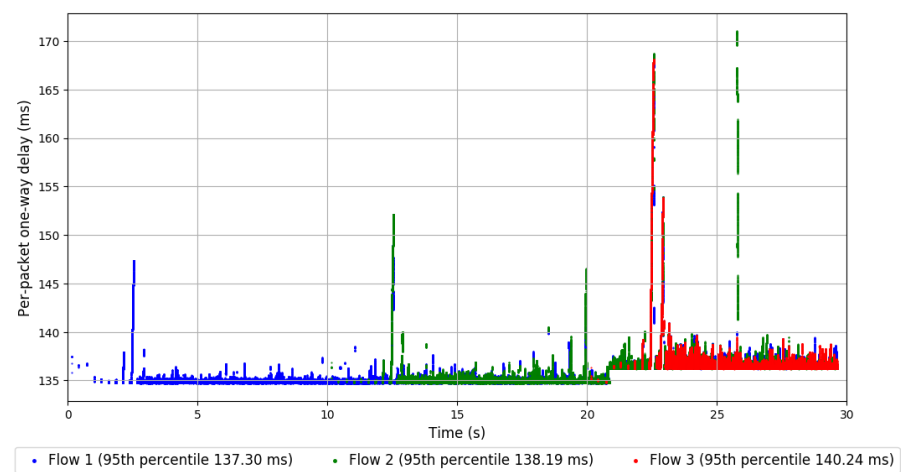
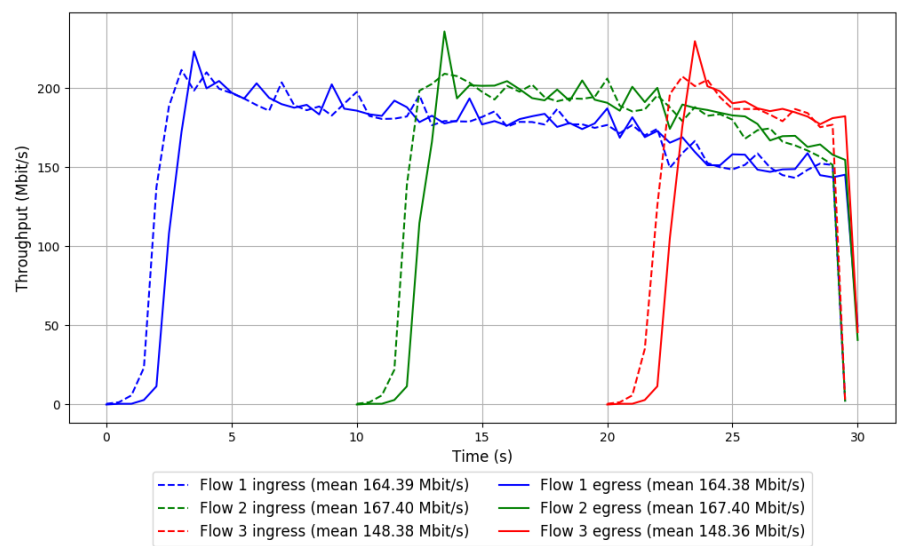


Run 3: Statistics of Indigo

Start at: 2018-06-19 11:54:48
End at: 2018-06-19 11:55:18
Local clock offset: 0.126 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2018-06-19 16:12:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 322.72 Mbit/s
95th percentile per-packet one-way delay: 137.916 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 164.38 Mbit/s
95th percentile per-packet one-way delay: 137.298 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 167.40 Mbit/s
95th percentile per-packet one-way delay: 138.189 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 148.36 Mbit/s
95th percentile per-packet one-way delay: 140.238 ms
Loss rate: 0.01%

Run 3: Report of Indigo — Data Link

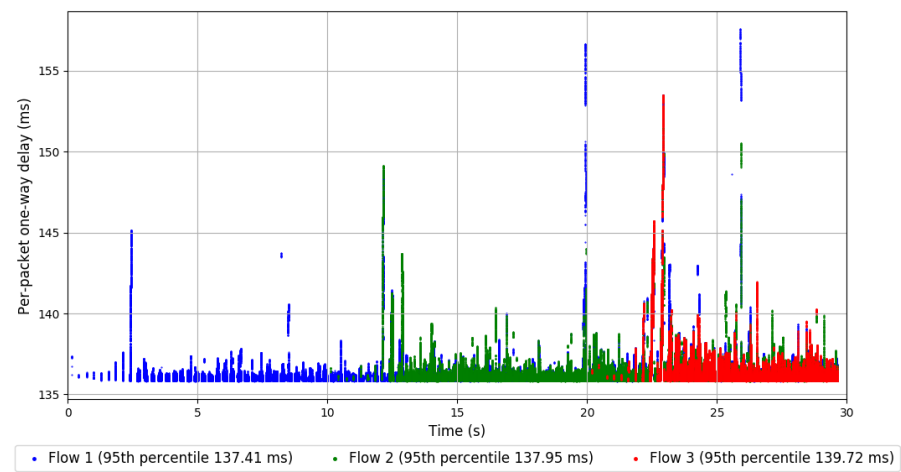
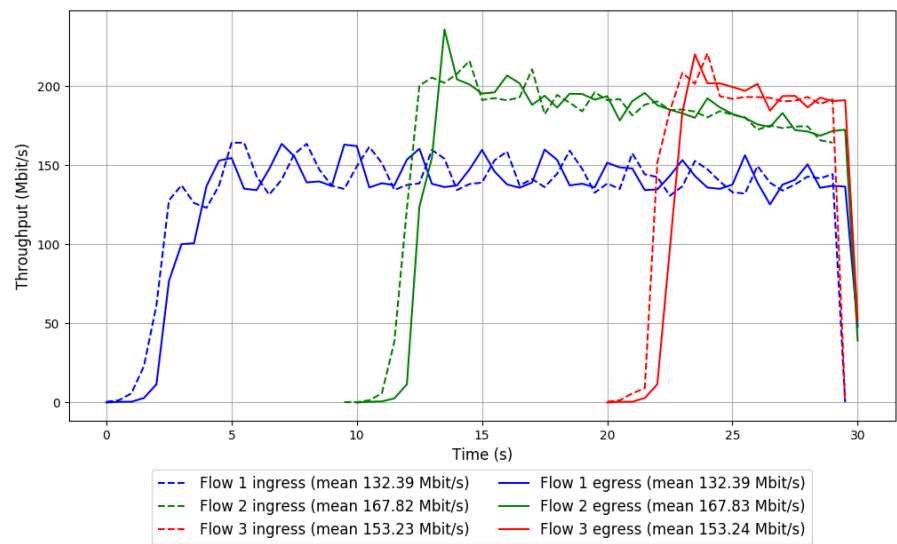


Run 4: Statistics of Indigo

Start at: 2018-06-19 12:19:56
End at: 2018-06-19 12:20:26
Local clock offset: 0.003 ms
Remote clock offset: -0.398 ms

Below is generated by plot.py at 2018-06-19 16:12:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 292.50 Mbit/s
95th percentile per-packet one-way delay: 137.912 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 132.39 Mbit/s
95th percentile per-packet one-way delay: 137.407 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 167.83 Mbit/s
95th percentile per-packet one-way delay: 137.951 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 153.24 Mbit/s
95th percentile per-packet one-way delay: 139.721 ms
Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-06-19 12:44:52

End at: 2018-06-19 12:45:22

Local clock offset: -0.034 ms

Remote clock offset: 0.402 ms

Below is generated by plot.py at 2018-06-19 16:12:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 313.47 Mbit/s

95th percentile per-packet one-way delay: 138.700 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 166.37 Mbit/s

95th percentile per-packet one-way delay: 138.110 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 170.38 Mbit/s

95th percentile per-packet one-way delay: 138.953 ms

Loss rate: 0.01%

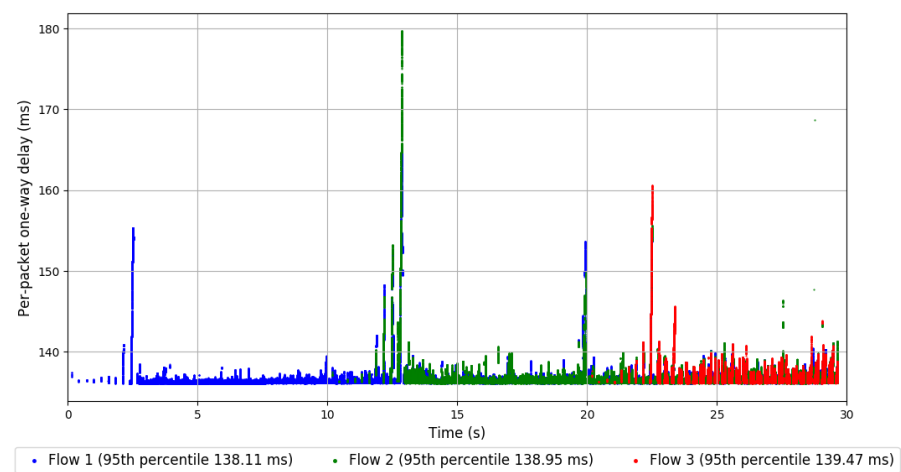
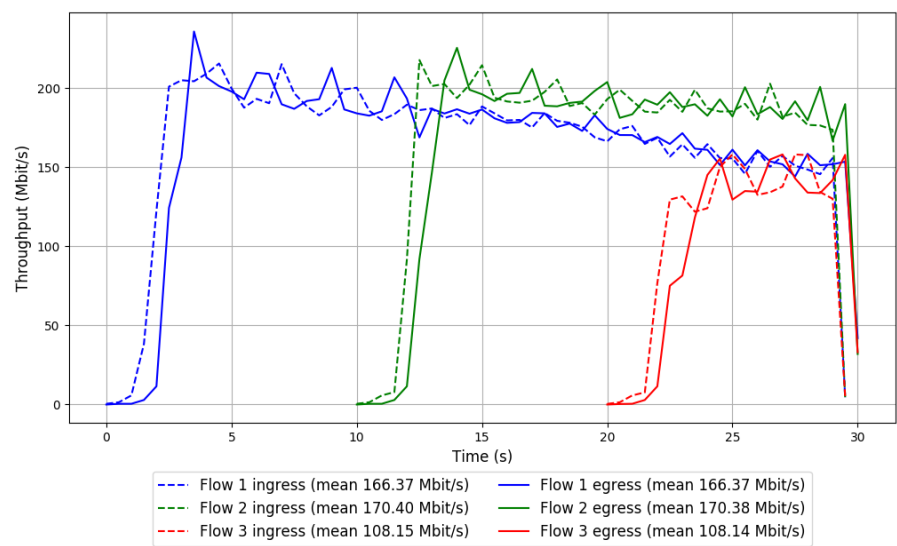
-- Flow 3:

Average throughput: 108.14 Mbit/s

95th percentile per-packet one-way delay: 139.473 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-06-19 13:09:47

End at: 2018-06-19 13:10:17

Local clock offset: -0.47 ms

Remote clock offset: 0.154 ms

Below is generated by plot.py at 2018-06-19 16:12:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 301.25 Mbit/s

95th percentile per-packet one-way delay: 138.897 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 168.82 Mbit/s

95th percentile per-packet one-way delay: 138.222 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 127.71 Mbit/s

95th percentile per-packet one-way delay: 139.399 ms

Loss rate: 0.00%

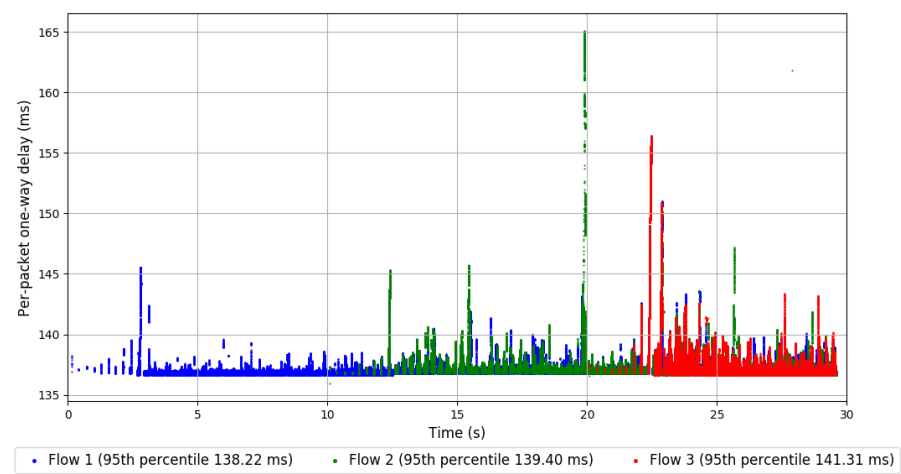
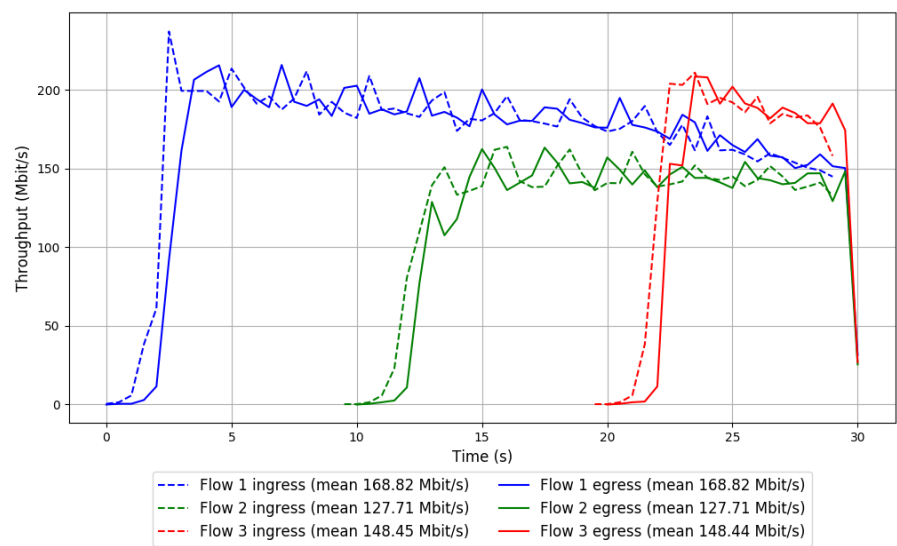
-- Flow 3:

Average throughput: 148.44 Mbit/s

95th percentile per-packet one-way delay: 141.307 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link

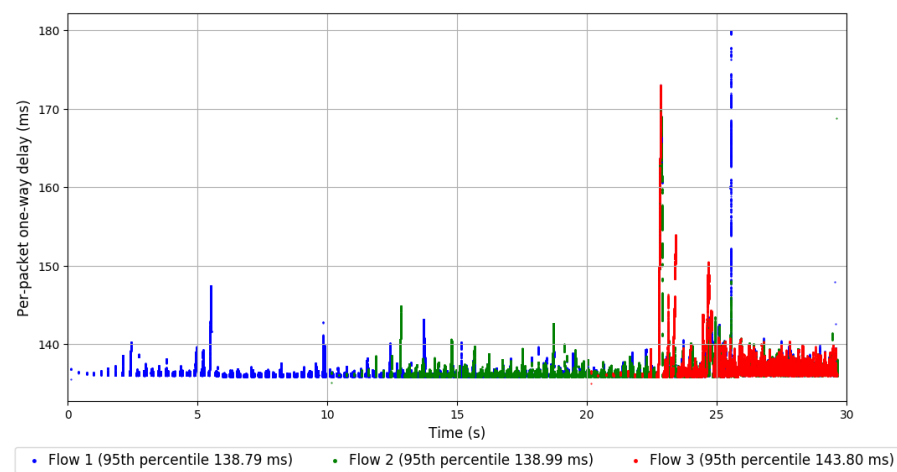
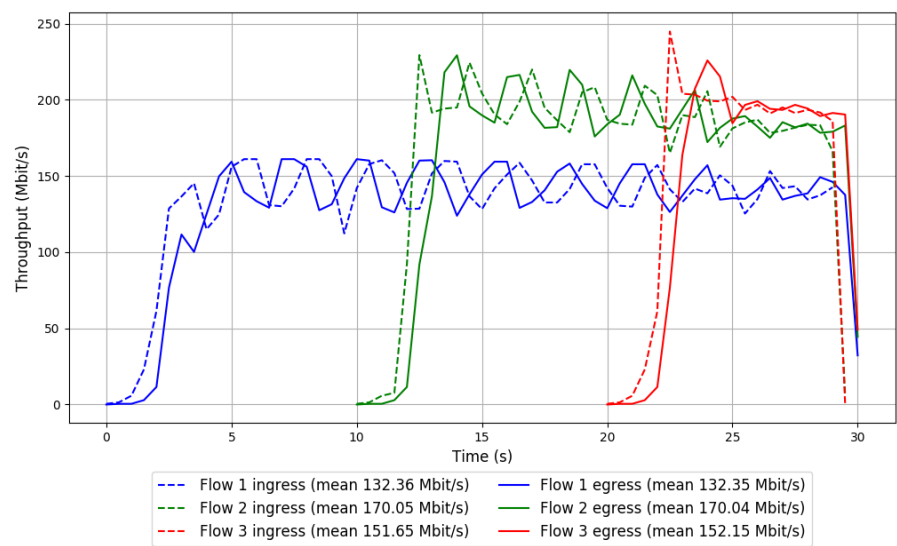


Run 7: Statistics of Indigo

Start at: 2018-06-19 13:34:23
End at: 2018-06-19 13:34:53
Local clock offset: -0.062 ms
Remote clock offset: -0.355 ms

Below is generated by plot.py at 2018-06-19 16:12:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 293.36 Mbit/s
95th percentile per-packet one-way delay: 139.407 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 132.35 Mbit/s
95th percentile per-packet one-way delay: 138.793 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 170.04 Mbit/s
95th percentile per-packet one-way delay: 138.992 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 152.15 Mbit/s
95th percentile per-packet one-way delay: 143.804 ms
Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-06-19 13:59:32

End at: 2018-06-19 14:00:02

Local clock offset: -0.104 ms

Remote clock offset: 0.386 ms

Below is generated by plot.py at 2018-06-19 16:12:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.40 Mbit/s

95th percentile per-packet one-way delay: 138.328 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 179.71 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 128.79 Mbit/s

95th percentile per-packet one-way delay: 138.249 ms

Loss rate: 0.00%

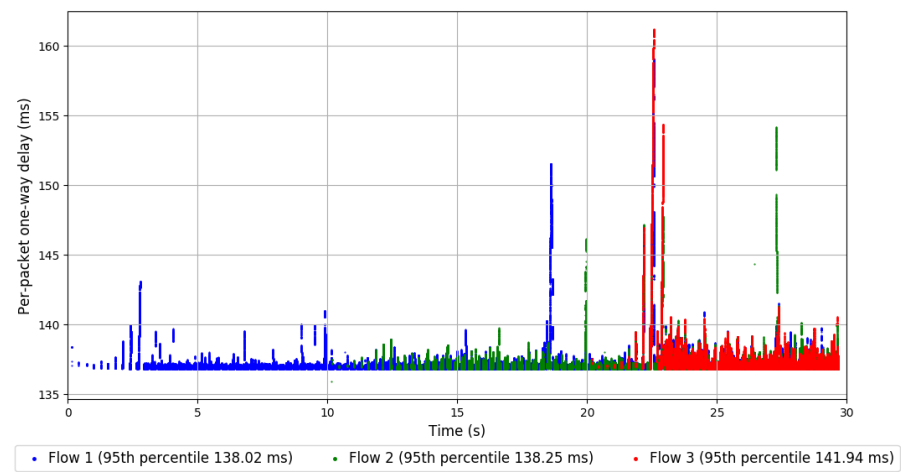
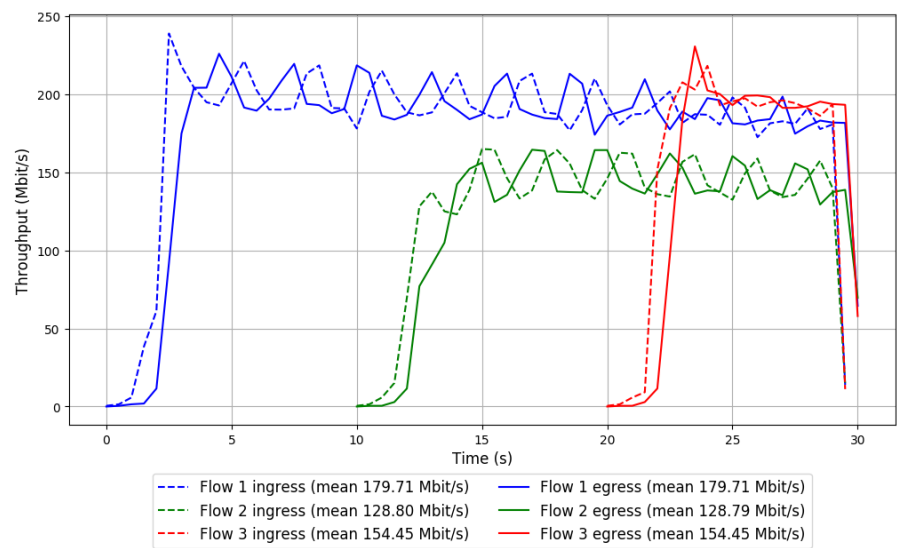
-- Flow 3:

Average throughput: 154.45 Mbit/s

95th percentile per-packet one-way delay: 141.939 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-06-19 14:23:59

End at: 2018-06-19 14:24:29

Local clock offset: 0.139 ms

Remote clock offset: 0.06 ms

Below is generated by plot.py at 2018-06-19 16:12:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 267.04 Mbit/s

95th percentile per-packet one-way delay: 138.046 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 132.85 Mbit/s

95th percentile per-packet one-way delay: 137.768 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 127.34 Mbit/s

95th percentile per-packet one-way delay: 138.232 ms

Loss rate: 0.00%

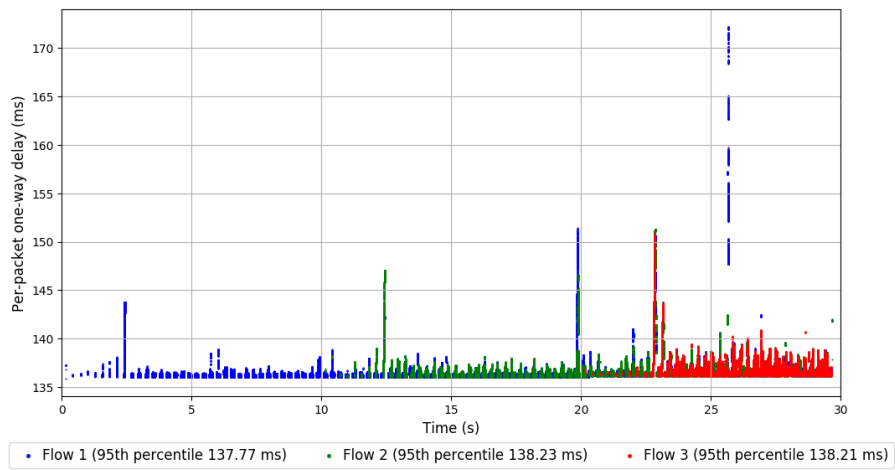
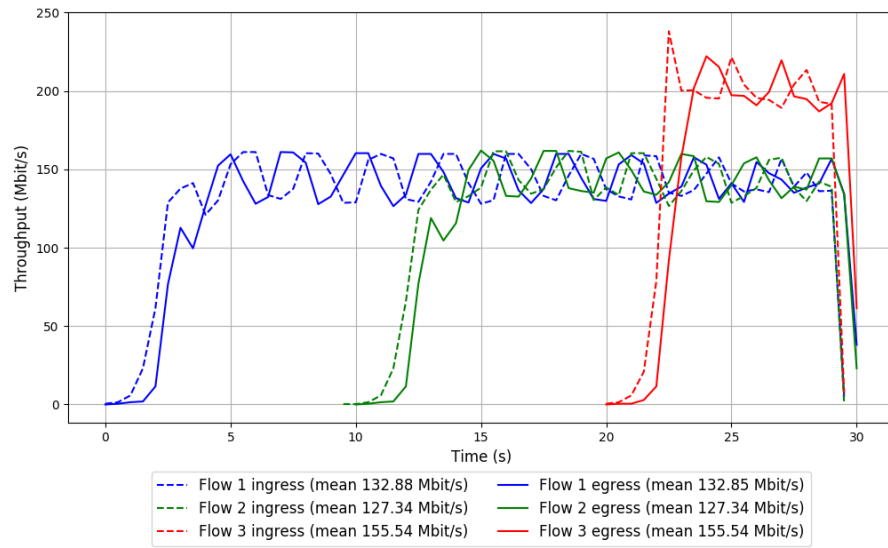
-- Flow 3:

Average throughput: 155.54 Mbit/s

95th percentile per-packet one-way delay: 138.206 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-06-19 14:49:16

End at: 2018-06-19 14:49:46

Local clock offset: 0.301 ms

Remote clock offset: 0.036 ms

Below is generated by plot.py at 2018-06-19 16:12:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 282.54 Mbit/s

95th percentile per-packet one-way delay: 139.764 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 132.68 Mbit/s

95th percentile per-packet one-way delay: 139.039 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 173.71 Mbit/s

95th percentile per-packet one-way delay: 139.343 ms

Loss rate: 0.00%

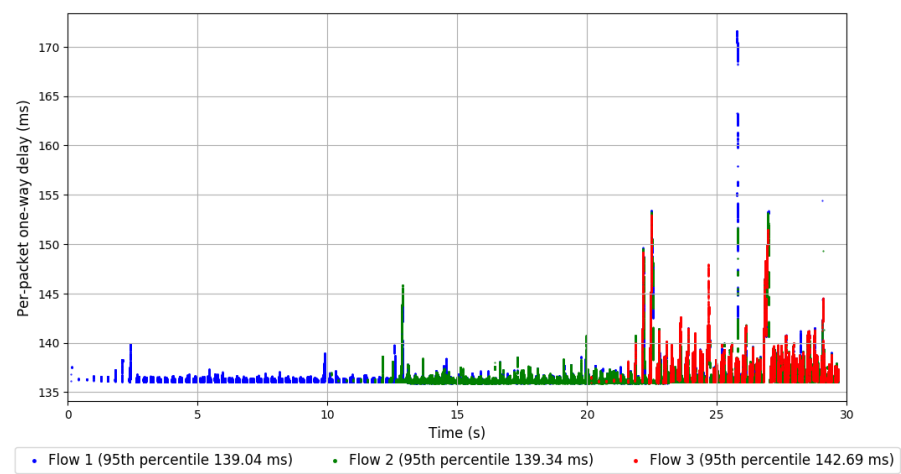
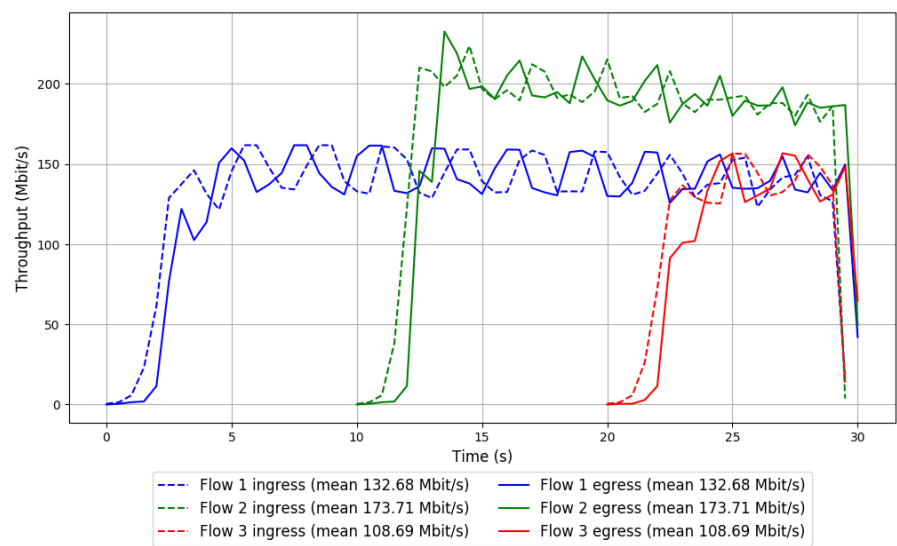
-- Flow 3:

Average throughput: 108.69 Mbit/s

95th percentile per-packet one-way delay: 142.686 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

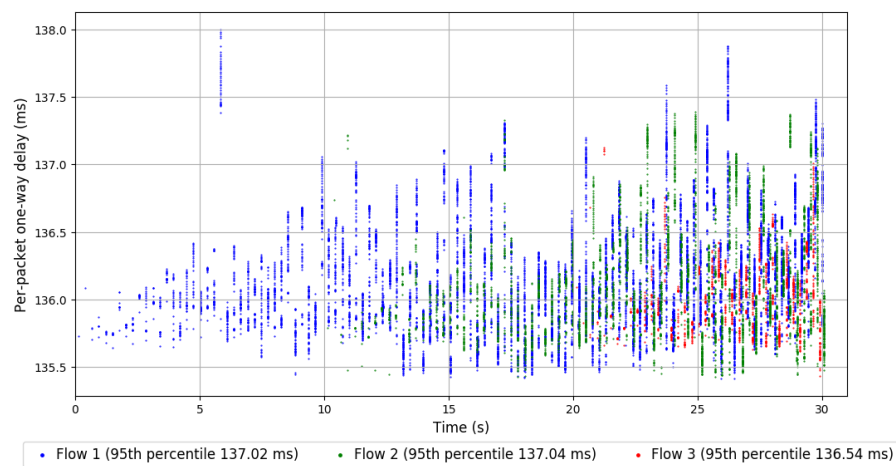
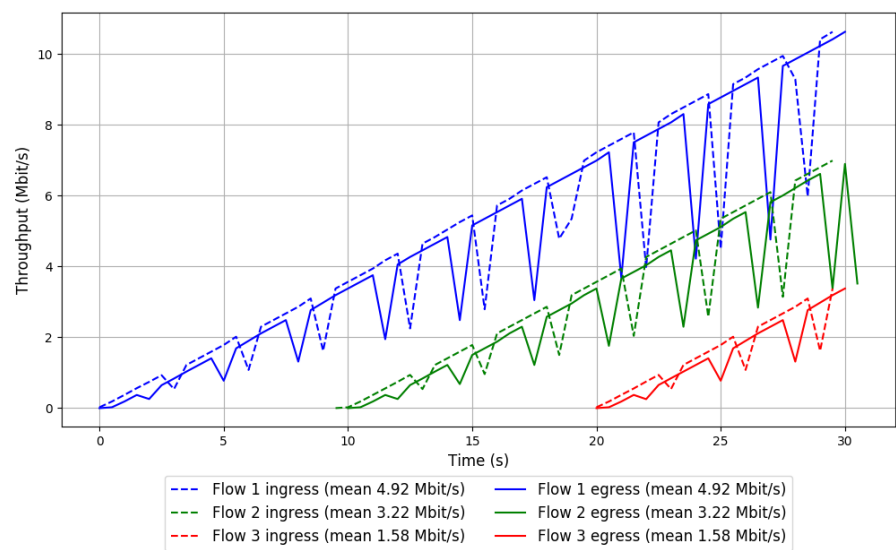


Run 1: Statistics of LEDBAT

Start at: 2018-06-19 10:52:04
End at: 2018-06-19 10:52:34
Local clock offset: 0.446 ms
Remote clock offset: -0.077 ms

Below is generated by plot.py at 2018-06-19 16:12:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.56 Mbit/s
95th percentile per-packet one-way delay: 136.997 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.92 Mbit/s
95th percentile per-packet one-way delay: 137.021 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.22 Mbit/s
95th percentile per-packet one-way delay: 137.039 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.58 Mbit/s
95th percentile per-packet one-way delay: 136.545 ms
Loss rate: 0.00%

Run 1: Report of LEDBAT — Data Link

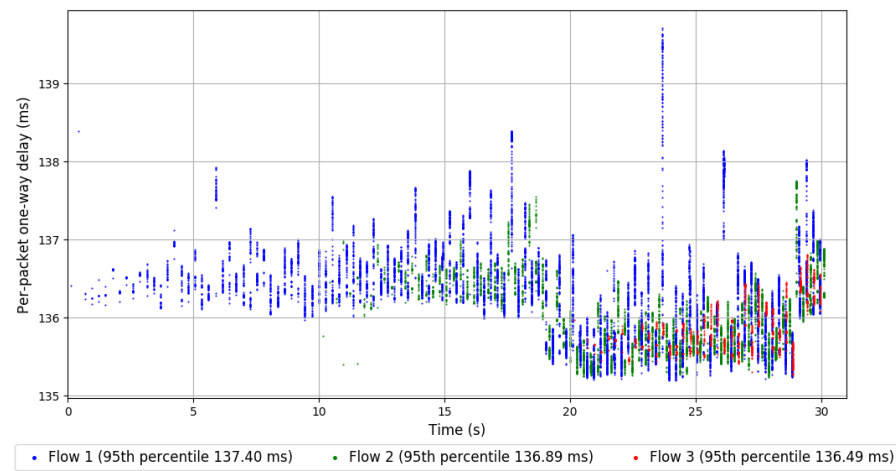
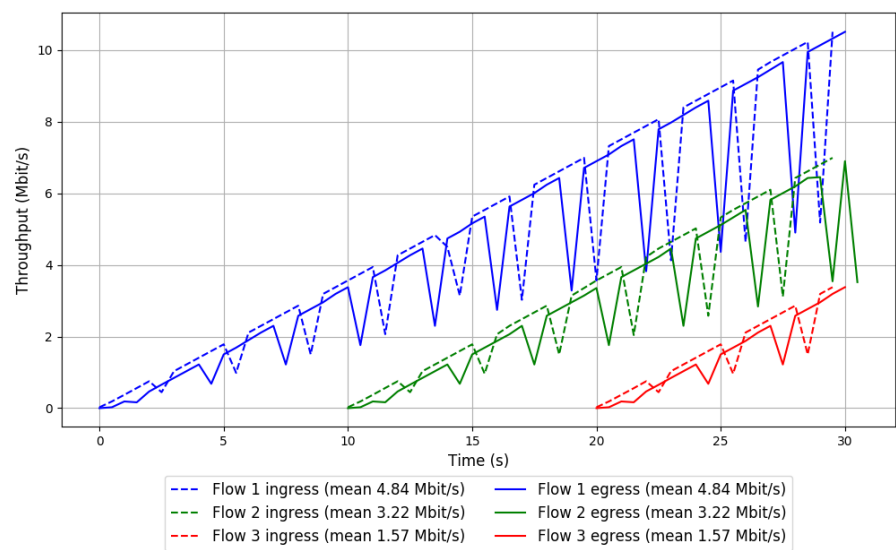


Run 2: Statistics of LEDBAT

Start at: 2018-06-19 11:17:01
End at: 2018-06-19 11:17:31
Local clock offset: 0.213 ms
Remote clock offset: -0.253 ms

Below is generated by plot.py at 2018-06-19 16:12:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.47 Mbit/s
95th percentile per-packet one-way delay: 137.250 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.84 Mbit/s
95th percentile per-packet one-way delay: 137.402 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.22 Mbit/s
95th percentile per-packet one-way delay: 136.892 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.57 Mbit/s
95th percentile per-packet one-way delay: 136.494 ms
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-06-19 11:41:56

End at: 2018-06-19 11:42:26

Local clock offset: 0.131 ms

Remote clock offset: 0.092 ms

Below is generated by plot.py at 2018-06-19 16:12:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 137.805 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 4.90 Mbit/s

95th percentile per-packet one-way delay: 137.833 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.24 Mbit/s

95th percentile per-packet one-way delay: 137.712 ms

Loss rate: 0.00%

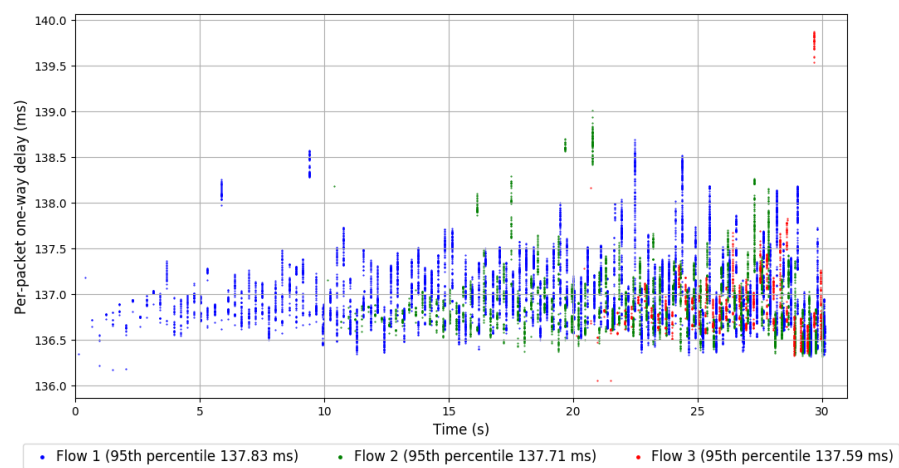
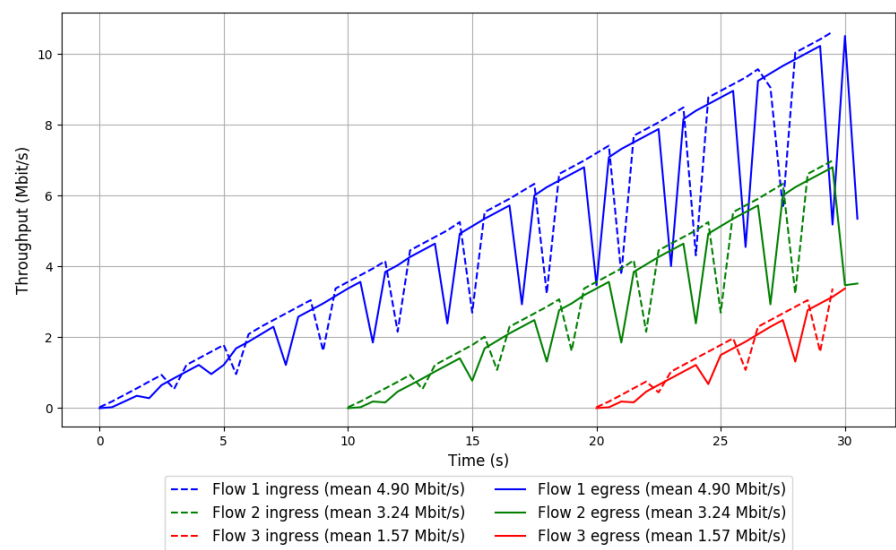
-- Flow 3:

Average throughput: 1.57 Mbit/s

95th percentile per-packet one-way delay: 137.592 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

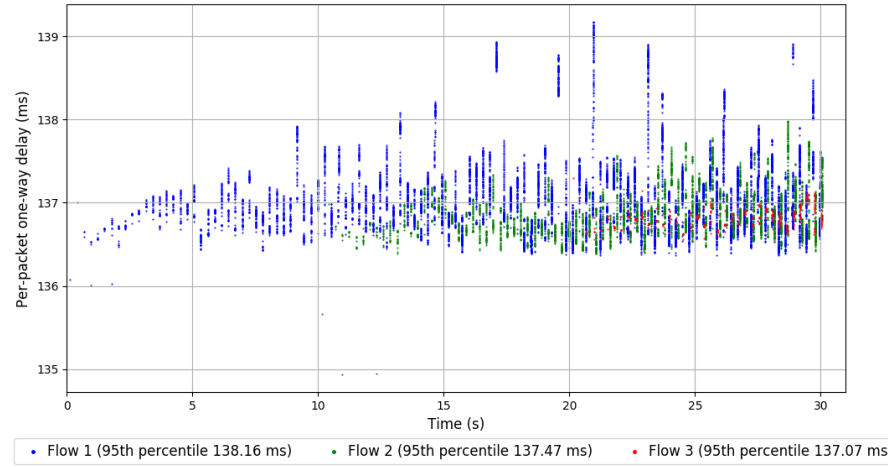
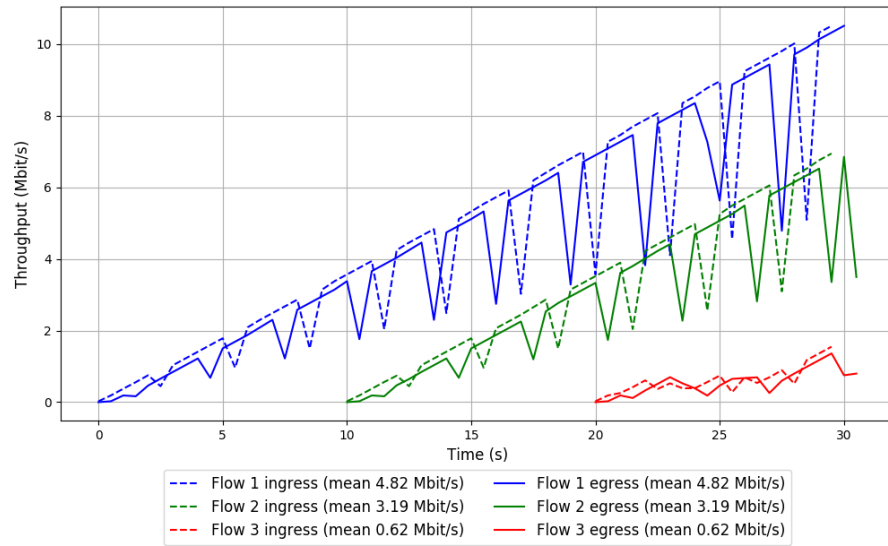


Run 4: Statistics of LEDBAT

Start at: 2018-06-19 12:06:43
End at: 2018-06-19 12:07:13
Local clock offset: -0.155 ms
Remote clock offset: -0.121 ms

Below is generated by plot.py at 2018-06-19 16:12:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.13 Mbit/s
95th percentile per-packet one-way delay: 137.854 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.82 Mbit/s
95th percentile per-packet one-way delay: 138.163 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.19 Mbit/s
95th percentile per-packet one-way delay: 137.472 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 137.069 ms
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

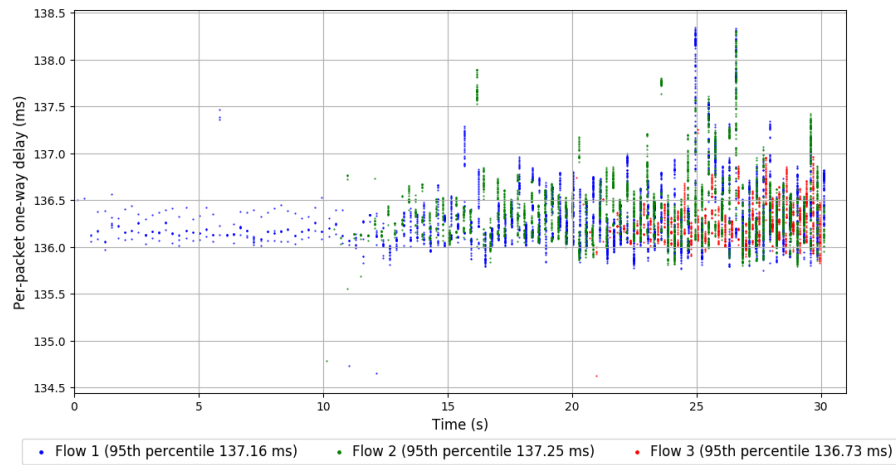
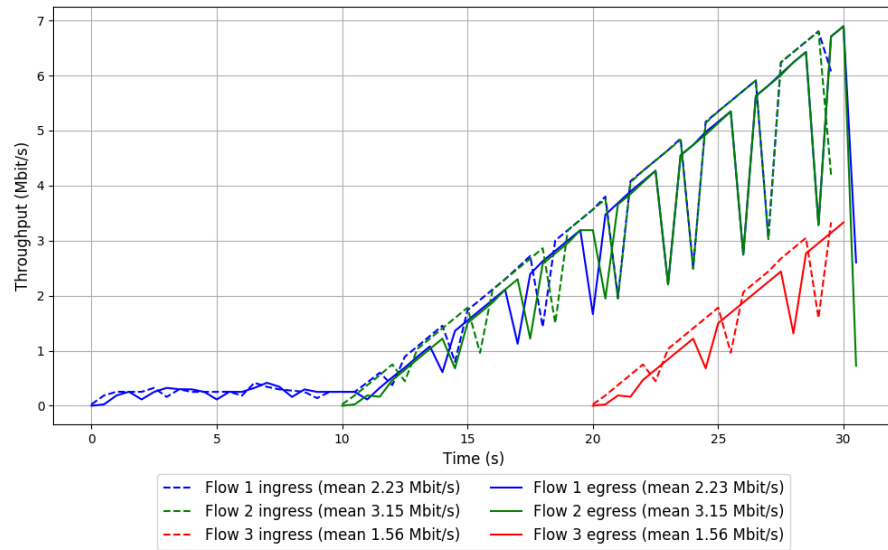


Run 5: Statistics of LEDBAT

Start at: 2018-06-19 12:31:49
End at: 2018-06-19 12:32:19
Local clock offset: 0.115 ms
Remote clock offset: -0.305 ms

Below is generated by plot.py at 2018-06-19 16:12:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.84 Mbit/s
95th percentile per-packet one-way delay: 137.181 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 137.162 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.15 Mbit/s
95th percentile per-packet one-way delay: 137.254 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.56 Mbit/s
95th percentile per-packet one-way delay: 136.731 ms
Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

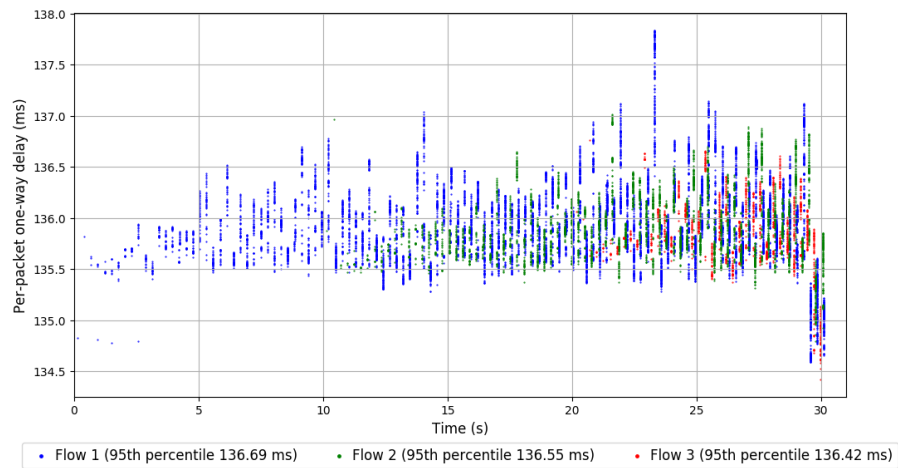
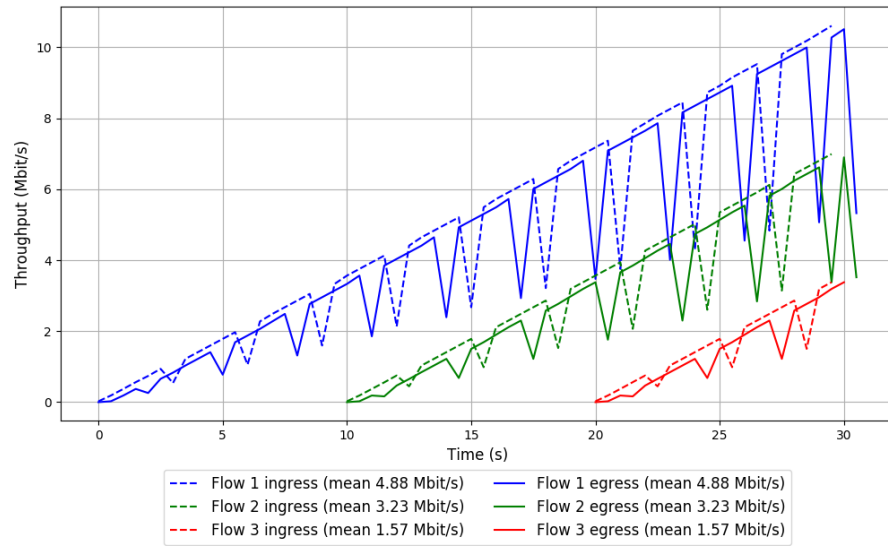


Run 6: Statistics of LEDBAT

Start at: 2018-06-19 12:56:50
End at: 2018-06-19 12:57:20
Local clock offset: 0.03 ms
Remote clock offset: -0.254 ms

Below is generated by plot.py at 2018-06-19 16:12:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.54 Mbit/s
95th percentile per-packet one-way delay: 136.624 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.88 Mbit/s
95th percentile per-packet one-way delay: 136.685 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.23 Mbit/s
95th percentile per-packet one-way delay: 136.550 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.57 Mbit/s
95th percentile per-packet one-way delay: 136.419 ms
Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-06-19 13:21:38

End at: 2018-06-19 13:22:08

Local clock offset: 0.246 ms

Remote clock offset: 0.13 ms

Below is generated by plot.py at 2018-06-19 16:12:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.43 Mbit/s

95th percentile per-packet one-way delay: 137.460 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.85 Mbit/s

95th percentile per-packet one-way delay: 137.554 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.13 Mbit/s

95th percentile per-packet one-way delay: 137.333 ms

Loss rate: 0.00%

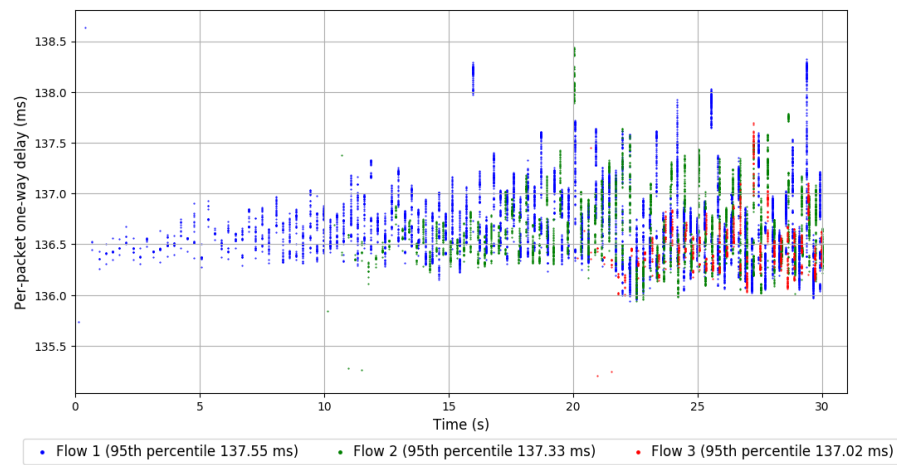
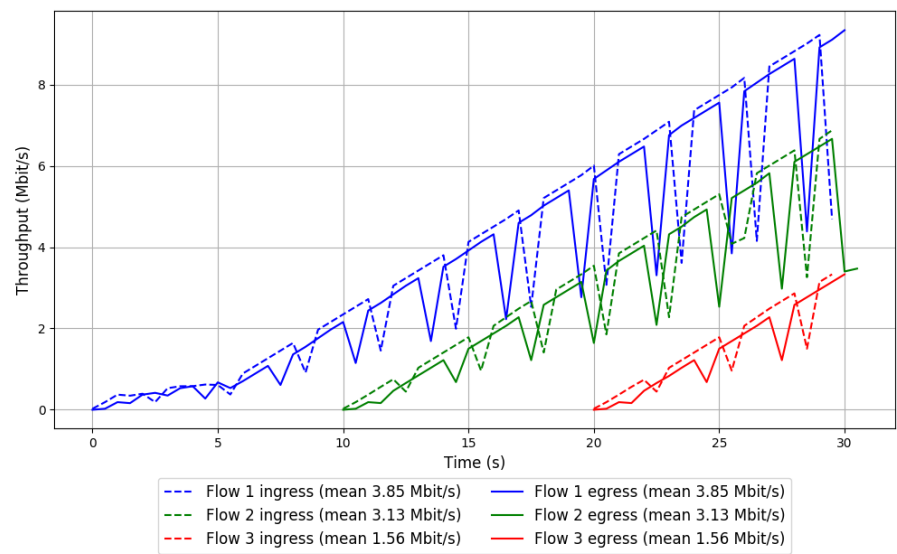
-- Flow 3:

Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 137.021 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link

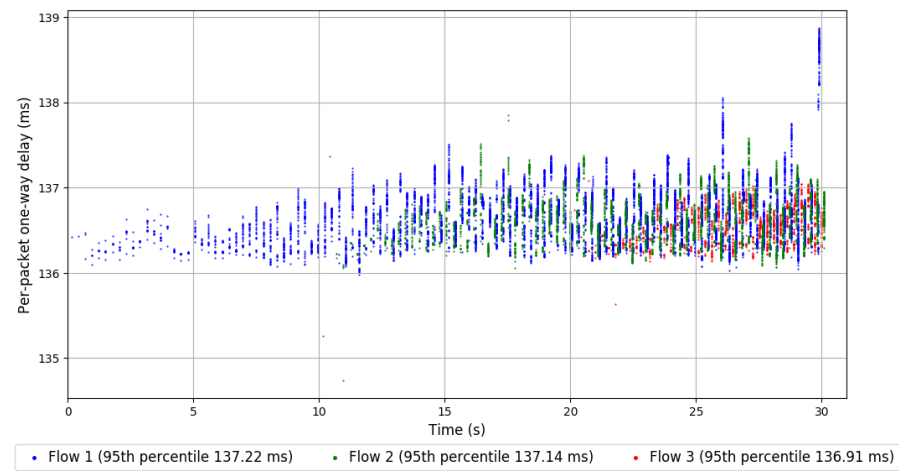
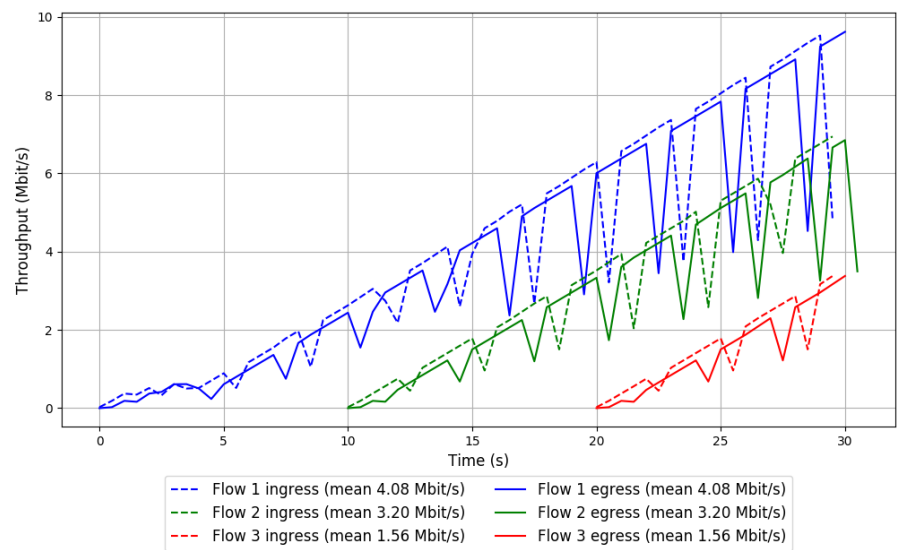


Run 8: Statistics of LEDBAT

Start at: 2018-06-19 13:46:18
End at: 2018-06-19 13:46:48
Local clock offset: 0.02 ms
Remote clock offset: -0.348 ms

Below is generated by plot.py at 2018-06-19 16:12:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.70 Mbit/s
95th percentile per-packet one-way delay: 137.183 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.08 Mbit/s
95th percentile per-packet one-way delay: 137.216 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.20 Mbit/s
95th percentile per-packet one-way delay: 137.137 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.56 Mbit/s
95th percentile per-packet one-way delay: 136.912 ms
Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link

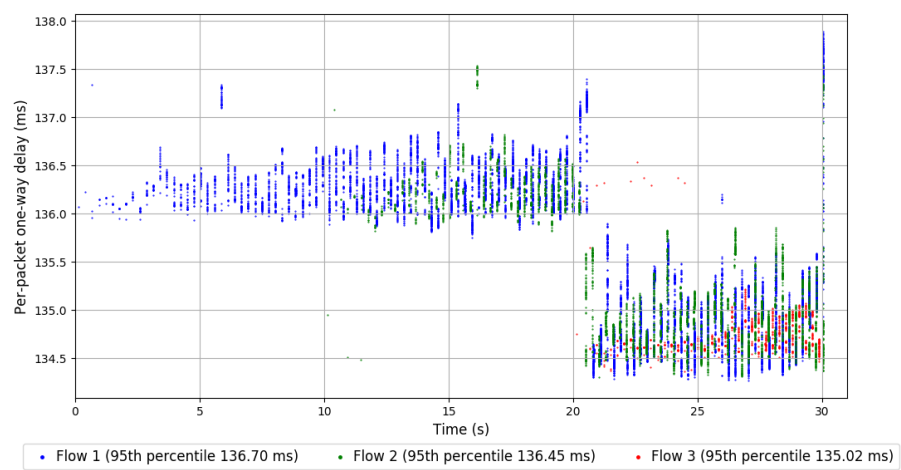
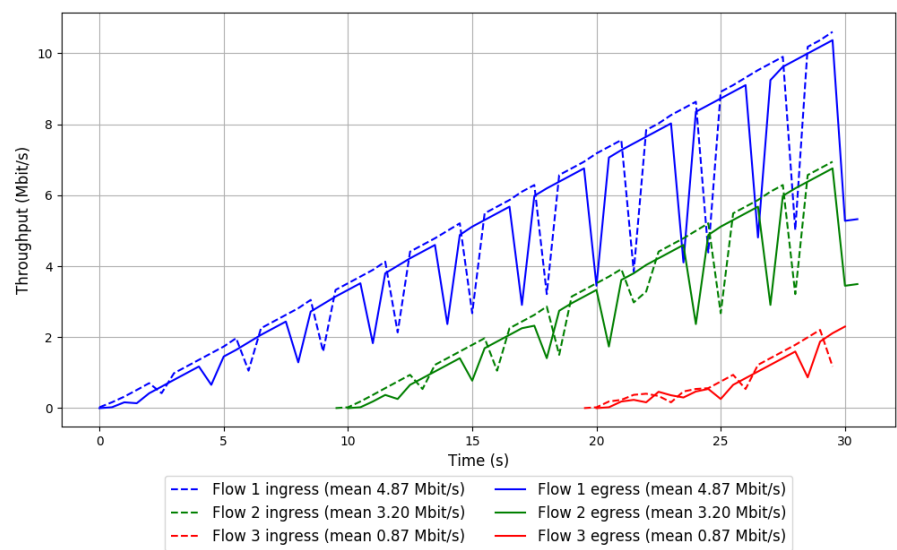


Run 9: Statistics of LEDBAT

Start at: 2018-06-19 14:11:29
End at: 2018-06-19 14:11:59
Local clock offset: 0.177 ms
Remote clock offset: -0.338 ms

Below is generated by plot.py at 2018-06-19 16:12:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.29 Mbit/s
95th percentile per-packet one-way delay: 136.638 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.87 Mbit/s
95th percentile per-packet one-way delay: 136.697 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.20 Mbit/s
95th percentile per-packet one-way delay: 136.446 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.87 Mbit/s
95th percentile per-packet one-way delay: 135.017 ms
Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-06-19 14:35:52

End at: 2018-06-19 14:36:22

Local clock offset: -0.425 ms

Remote clock offset: 0.423 ms

Below is generated by plot.py at 2018-06-19 16:12:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.74 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.09 Mbit/s

95th percentile per-packet one-way delay: 137.961 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.22 Mbit/s

95th percentile per-packet one-way delay: 138.536 ms

Loss rate: 0.00%

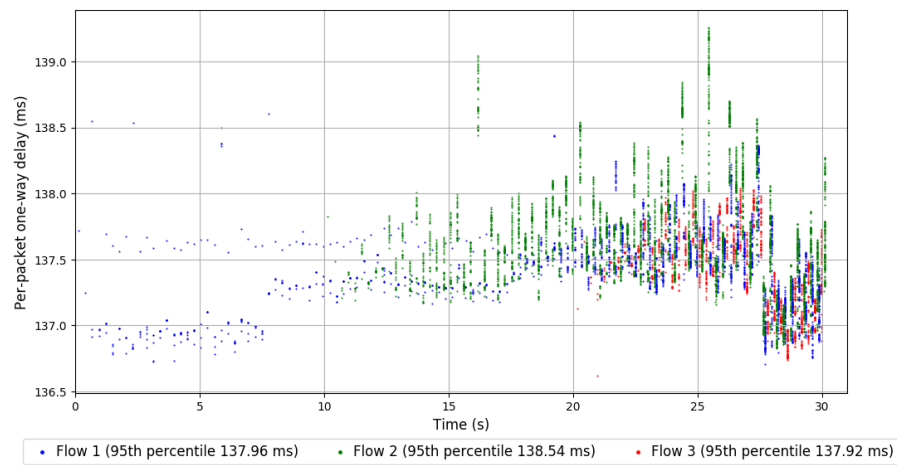
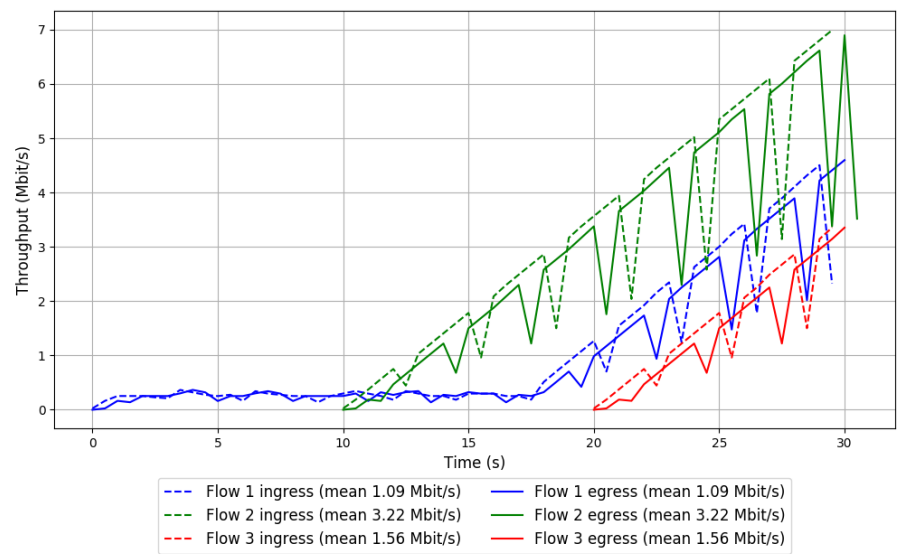
-- Flow 3:

Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 137.919 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

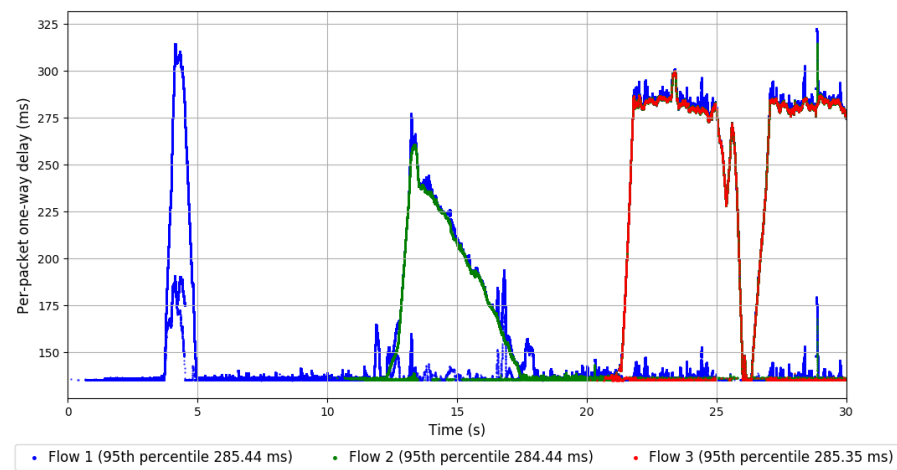
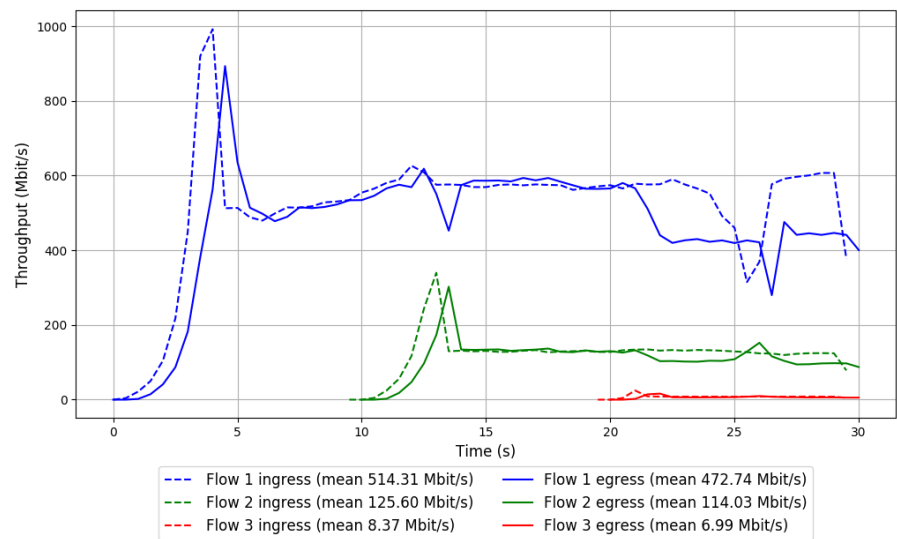


Run 1: Statistics of PCC-Allegro

Start at: 2018-06-19 11:08:18
End at: 2018-06-19 11:08:48
Local clock offset: 0.23 ms
Remote clock offset: -0.351 ms

Below is generated by plot.py at 2018-06-19 16:12:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 550.93 Mbit/s
95th percentile per-packet one-way delay: 285.201 ms
Loss rate: 8.28%
-- Flow 1:
Average throughput: 472.74 Mbit/s
95th percentile per-packet one-way delay: 285.438 ms
Loss rate: 8.08%
-- Flow 2:
Average throughput: 114.03 Mbit/s
95th percentile per-packet one-way delay: 284.441 ms
Loss rate: 9.21%
-- Flow 3:
Average throughput: 6.99 Mbit/s
95th percentile per-packet one-way delay: 285.345 ms
Loss rate: 16.47%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-06-19 11:33:03

End at: 2018-06-19 11:33:33

Local clock offset: 0.593 ms

Remote clock offset: 0.192 ms

Below is generated by plot.py at 2018-06-19 16:12:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 584.16 Mbit/s

95th percentile per-packet one-way delay: 279.340 ms

Loss rate: 2.21%

-- Flow 1:

Average throughput: 478.27 Mbit/s

95th percentile per-packet one-way delay: 283.784 ms

Loss rate: 2.30%

-- Flow 2:

Average throughput: 128.23 Mbit/s

95th percentile per-packet one-way delay: 240.443 ms

Loss rate: 1.93%

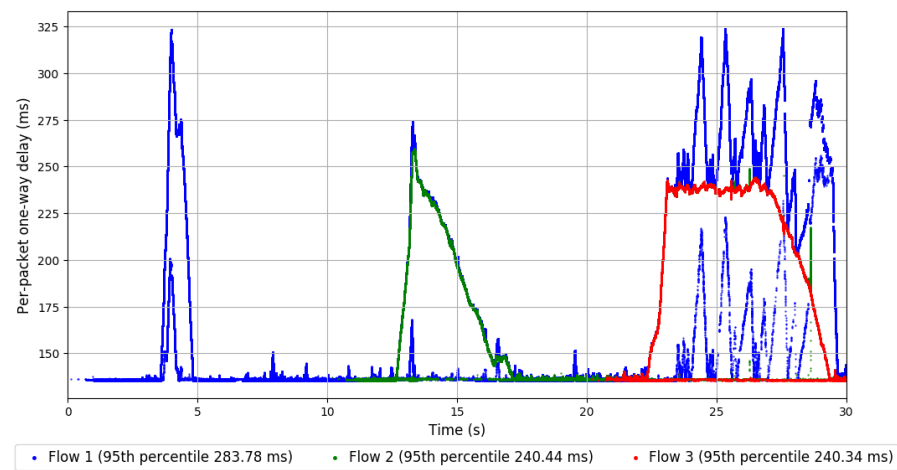
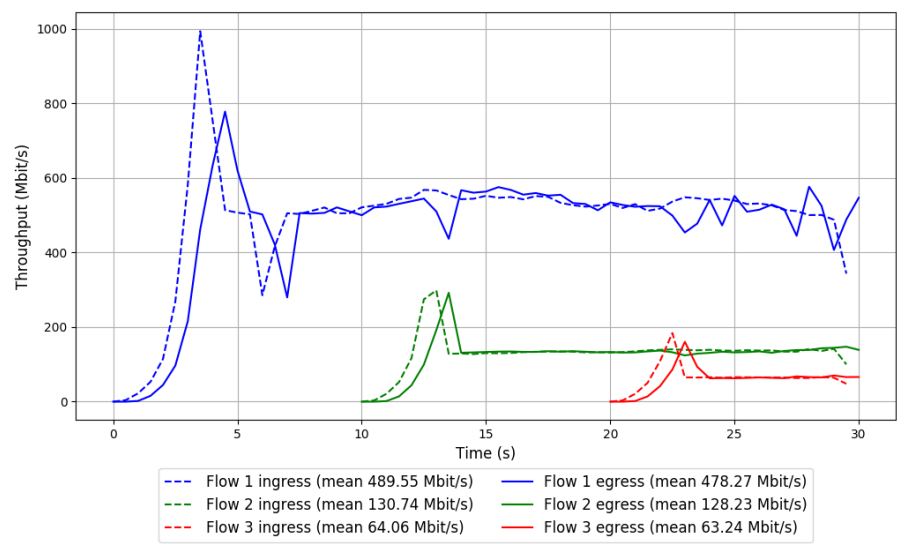
-- Flow 3:

Average throughput: 63.24 Mbit/s

95th percentile per-packet one-way delay: 240.340 ms

Loss rate: 1.29%

Run 2: Report of PCC-Allegro — Data Link

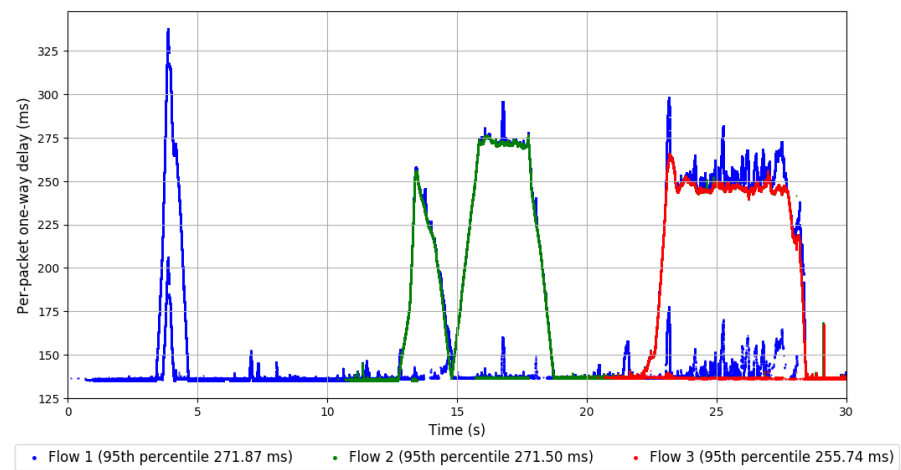
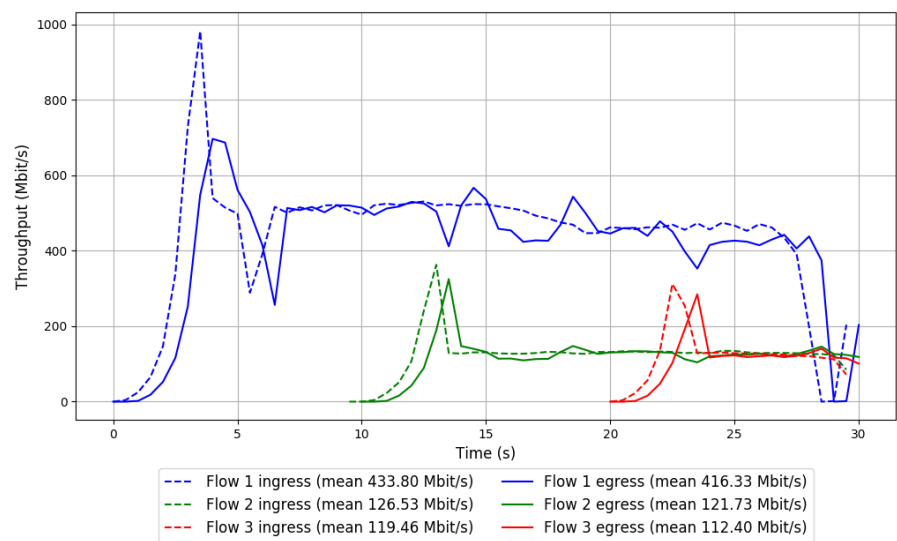


Run 3: Statistics of PCC-Allegro

Start at: 2018-06-19 11:57:56
End at: 2018-06-19 11:58:26
Local clock offset: -0.274 ms
Remote clock offset: -0.057 ms

Below is generated by plot.py at 2018-06-19 16:12:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 534.26 Mbit/s
95th percentile per-packet one-way delay: 271.539 ms
Loss rate: 4.13%
-- Flow 1:
Average throughput: 416.33 Mbit/s
95th percentile per-packet one-way delay: 271.870 ms
Loss rate: 4.03%
-- Flow 2:
Average throughput: 121.73 Mbit/s
95th percentile per-packet one-way delay: 271.502 ms
Loss rate: 3.80%
-- Flow 3:
Average throughput: 112.40 Mbit/s
95th percentile per-packet one-way delay: 255.735 ms
Loss rate: 5.96%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-06-19 12:23:01

End at: 2018-06-19 12:23:31

Local clock offset: 0.087 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-06-19 16:12:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 576.66 Mbit/s

95th percentile per-packet one-way delay: 257.466 ms

Loss rate: 3.36%

-- Flow 1:

Average throughput: 480.58 Mbit/s

95th percentile per-packet one-way delay: 259.841 ms

Loss rate: 3.39%

-- Flow 2:

Average throughput: 129.29 Mbit/s

95th percentile per-packet one-way delay: 249.604 ms

Loss rate: 3.01%

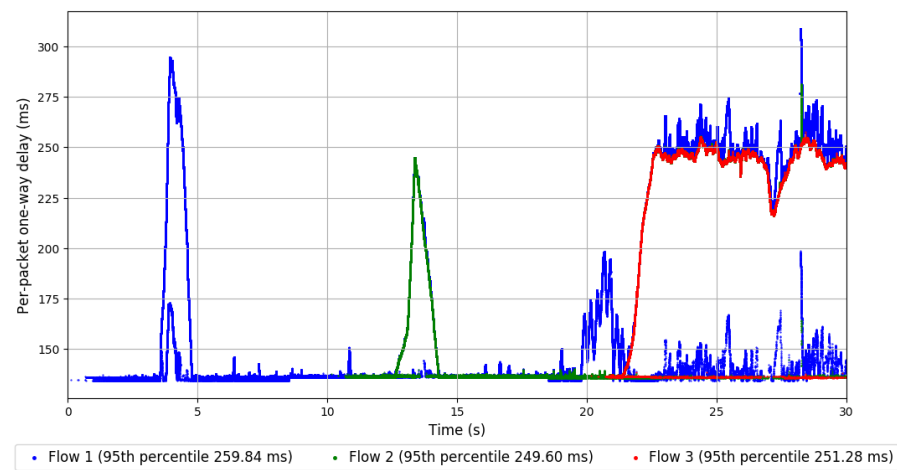
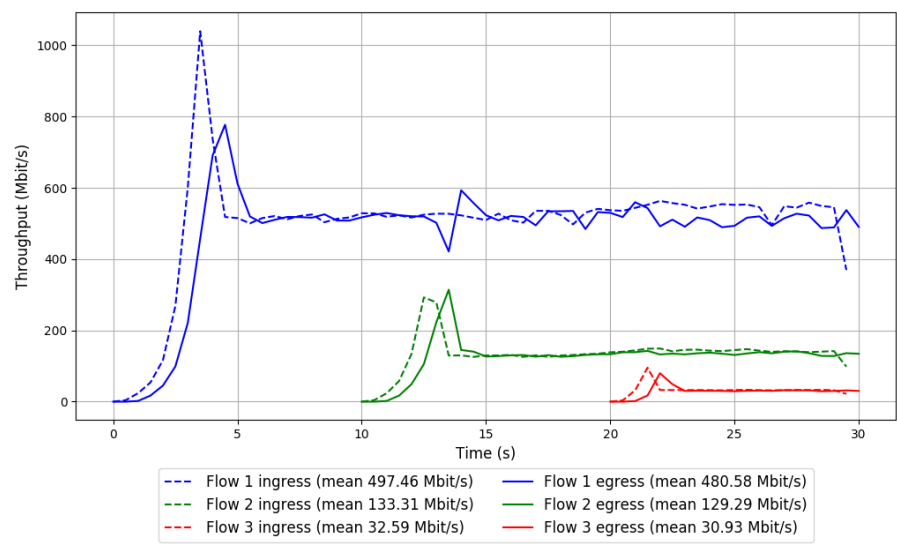
-- Flow 3:

Average throughput: 30.93 Mbit/s

95th percentile per-packet one-way delay: 251.277 ms

Loss rate: 5.10%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-06-19 12:47:58

End at: 2018-06-19 12:48:28

Local clock offset: -0.074 ms

Remote clock offset: 0.071 ms

Below is generated by plot.py at 2018-06-19 16:12:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 579.64 Mbit/s

95th percentile per-packet one-way delay: 257.129 ms

Loss rate: 2.42%

-- Flow 1:

Average throughput: 478.29 Mbit/s

95th percentile per-packet one-way delay: 259.367 ms

Loss rate: 2.44%

-- Flow 2:

Average throughput: 137.32 Mbit/s

95th percentile per-packet one-way delay: 244.827 ms

Loss rate: 2.22%

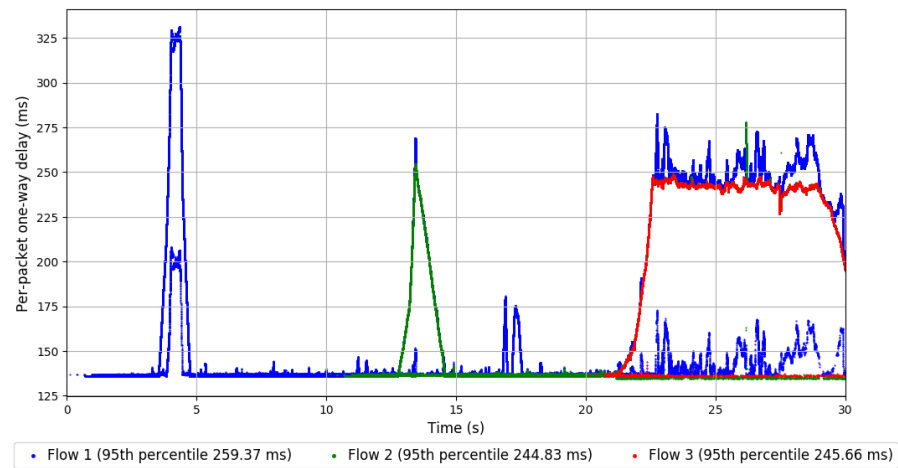
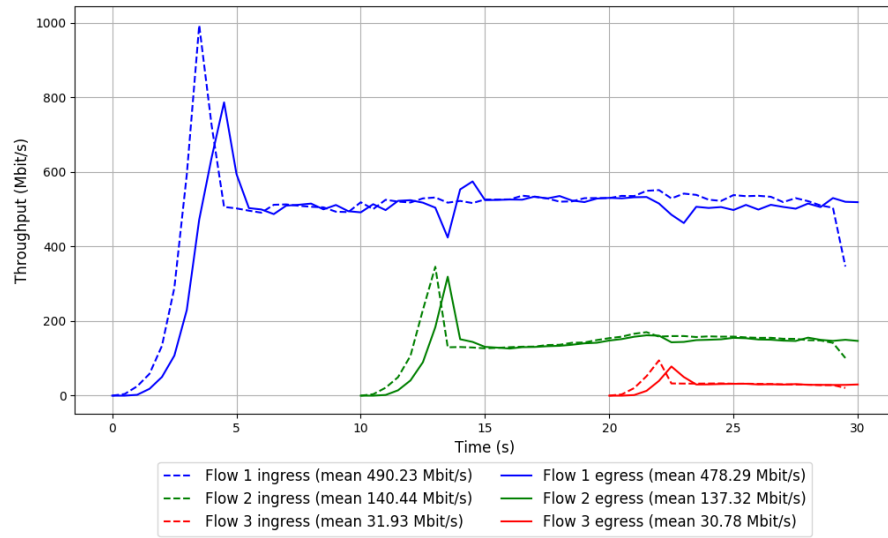
-- Flow 3:

Average throughput: 30.78 Mbit/s

95th percentile per-packet one-way delay: 245.661 ms

Loss rate: 3.59%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-06-19 13:12:51

End at: 2018-06-19 13:13:21

Local clock offset: -0.167 ms

Remote clock offset: 0.174 ms

Below is generated by plot.py at 2018-06-19 16:12:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 568.51 Mbit/s

95th percentile per-packet one-way delay: 261.560 ms

Loss rate: 7.92%

-- Flow 1:

Average throughput: 426.26 Mbit/s

95th percentile per-packet one-way delay: 263.982 ms

Loss rate: 7.41%

-- Flow 2:

Average throughput: 213.06 Mbit/s

95th percentile per-packet one-way delay: 253.692 ms

Loss rate: 9.42%

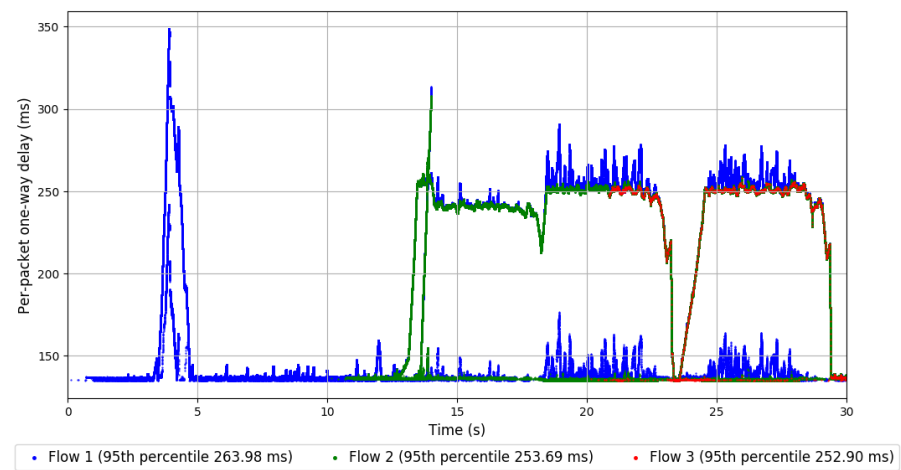
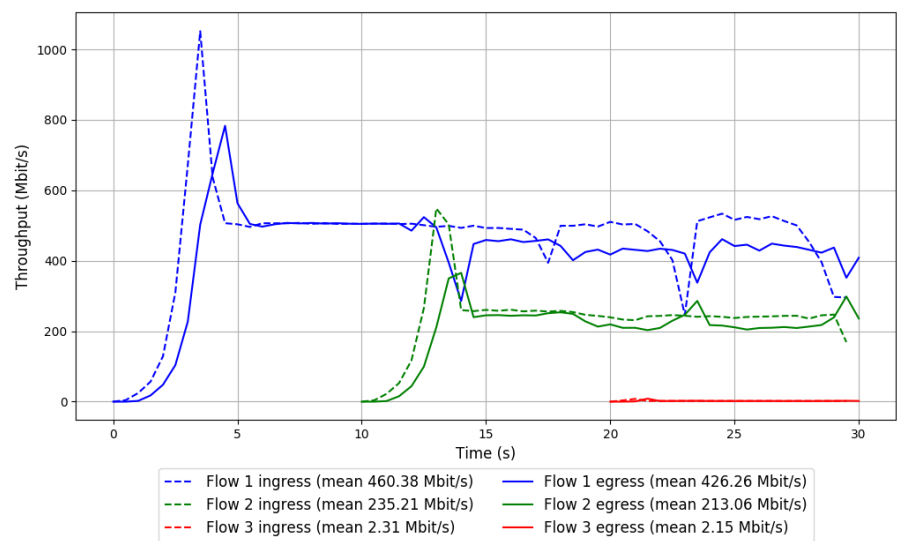
-- Flow 3:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 252.896 ms

Loss rate: 7.28%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-06-19 13:37:27

End at: 2018-06-19 13:37:57

Local clock offset: -0.292 ms

Remote clock offset: 0.421 ms

Below is generated by plot.py at 2018-06-19 16:18:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 587.42 Mbit/s

95th percentile per-packet one-way delay: 296.082 ms

Loss rate: 2.23%

-- Flow 1:

Average throughput: 526.78 Mbit/s

95th percentile per-packet one-way delay: 300.219 ms

Loss rate: 2.47%

-- Flow 2:

Average throughput: 74.63 Mbit/s

95th percentile per-packet one-way delay: 239.699 ms

Loss rate: 0.14%

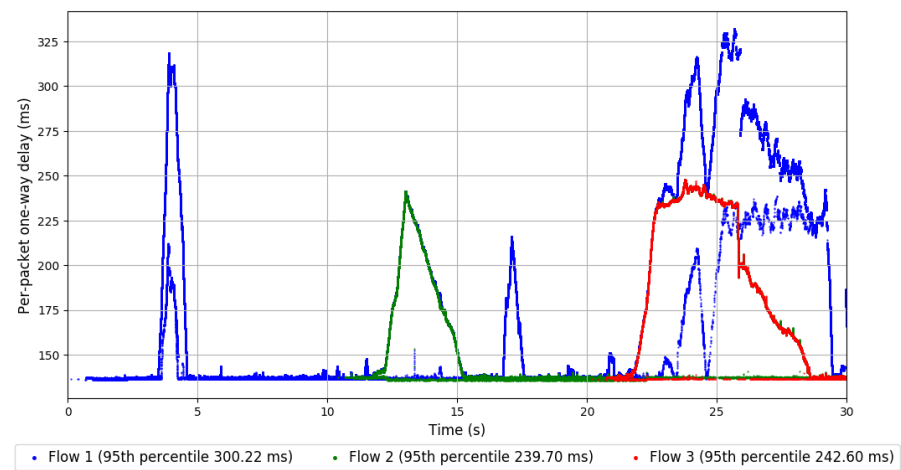
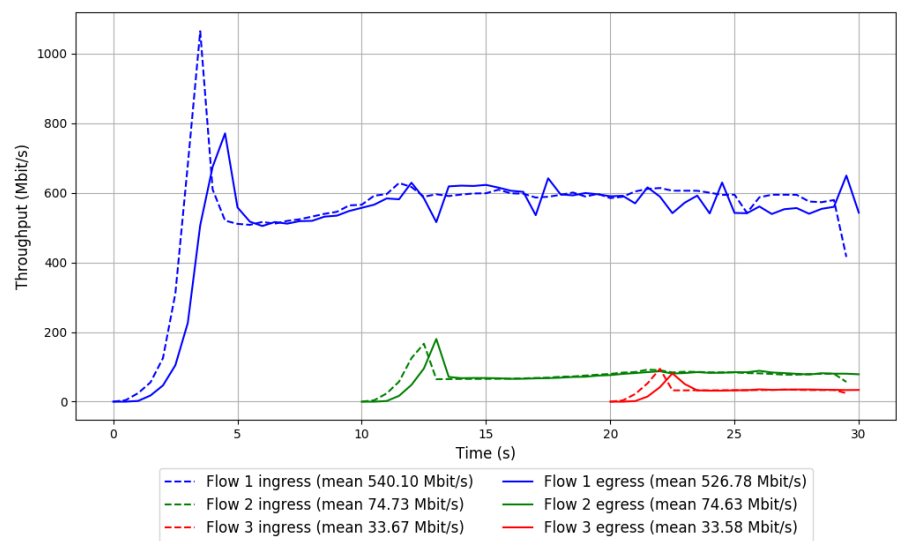
-- Flow 3:

Average throughput: 33.58 Mbit/s

95th percentile per-packet one-way delay: 242.598 ms

Loss rate: 0.28%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-06-19 14:02:37

End at: 2018-06-19 14:03:07

Local clock offset: -0.213 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at 2018-06-19 16:18:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 586.86 Mbit/s

95th percentile per-packet one-way delay: 250.387 ms

Loss rate: 3.16%

-- Flow 1:

Average throughput: 490.28 Mbit/s

95th percentile per-packet one-way delay: 250.788 ms

Loss rate: 3.02%

-- Flow 2:

Average throughput: 115.02 Mbit/s

95th percentile per-packet one-way delay: 248.468 ms

Loss rate: 3.40%

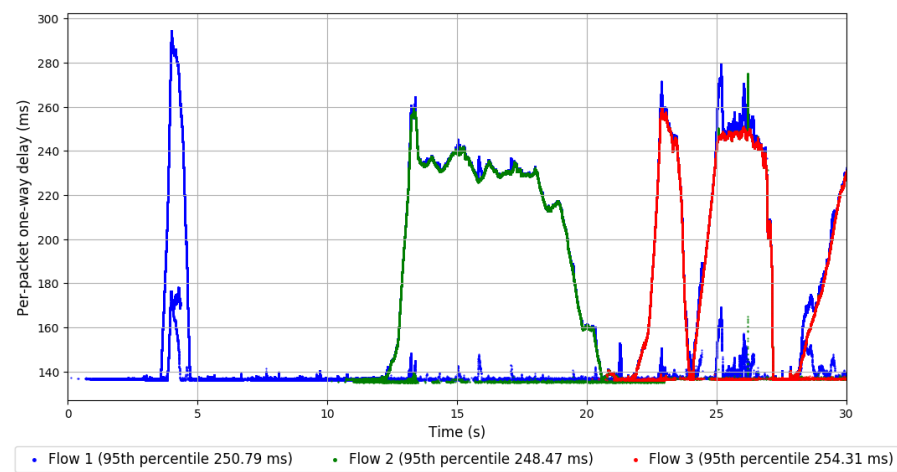
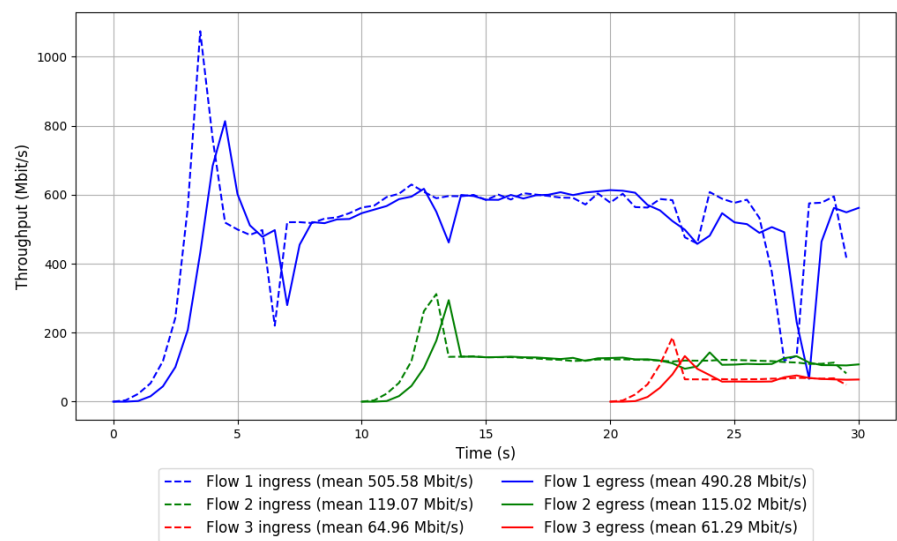
-- Flow 3:

Average throughput: 61.29 Mbit/s

95th percentile per-packet one-way delay: 254.313 ms

Loss rate: 5.67%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-06-19 14:27:01

End at: 2018-06-19 14:27:31

Local clock offset: 0.086 ms

Remote clock offset: 0.041 ms

Below is generated by plot.py at 2018-06-19 16:18:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 547.88 Mbit/s

95th percentile per-packet one-way delay: 252.122 ms

Loss rate: 3.10%

-- Flow 1:

Average throughput: 436.00 Mbit/s

95th percentile per-packet one-way delay: 254.807 ms

Loss rate: 3.05%

-- Flow 2:

Average throughput: 138.27 Mbit/s

95th percentile per-packet one-way delay: 242.742 ms

Loss rate: 2.84%

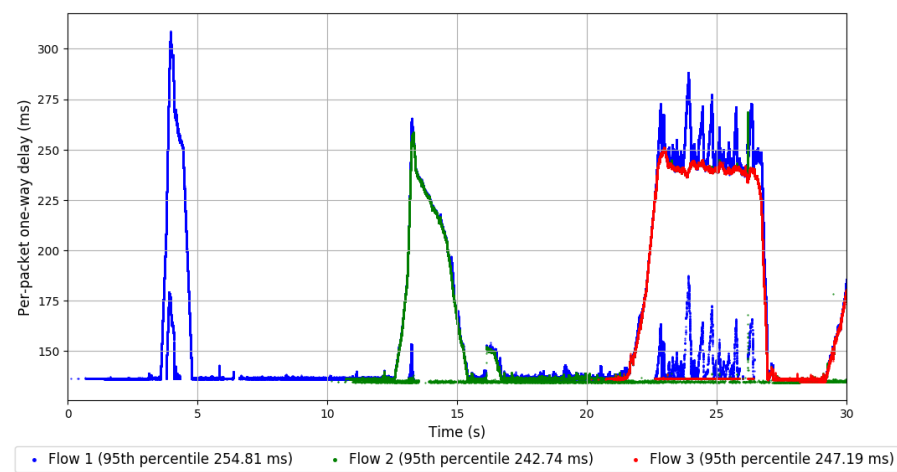
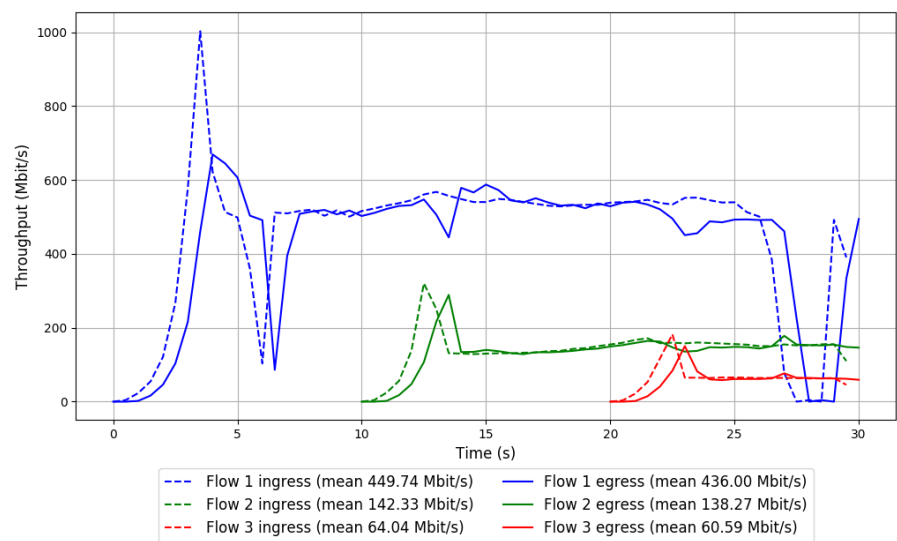
-- Flow 3:

Average throughput: 60.59 Mbit/s

95th percentile per-packet one-way delay: 247.193 ms

Loss rate: 5.37%

Run 9: Report of PCC-Allegro — Data Link

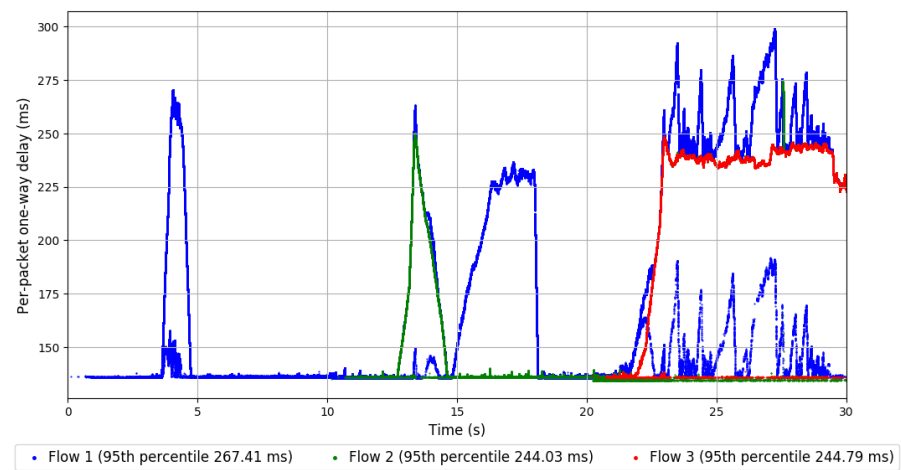
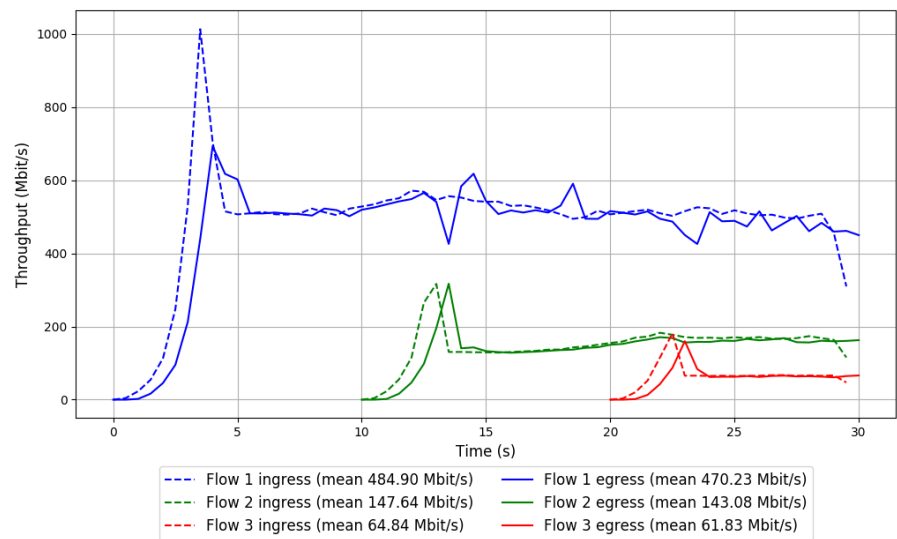


Run 10: Statistics of PCC-Allegro

Start at: 2018-06-19 14:52:19
End at: 2018-06-19 14:52:49
Local clock offset: 0.176 ms
Remote clock offset: -0.322 ms

Below is generated by plot.py at 2018-06-19 16:19:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 585.63 Mbit/s
95th percentile per-packet one-way delay: 262.411 ms
Loss rate: 3.10%
-- Flow 1:
Average throughput: 470.23 Mbit/s
95th percentile per-packet one-way delay: 267.408 ms
Loss rate: 3.03%
-- Flow 2:
Average throughput: 143.08 Mbit/s
95th percentile per-packet one-way delay: 244.031 ms
Loss rate: 3.08%
-- Flow 3:
Average throughput: 61.83 Mbit/s
95th percentile per-packet one-way delay: 244.786 ms
Loss rate: 4.63%

Run 10: Report of PCC-Allegro — Data Link

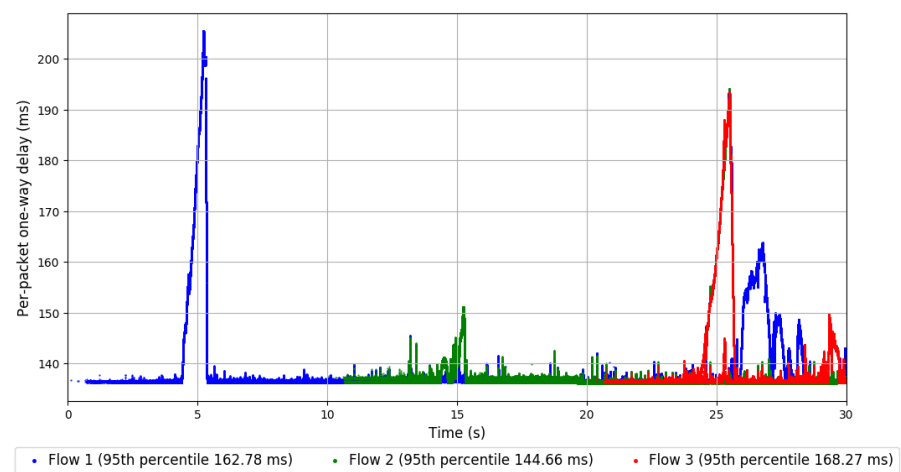
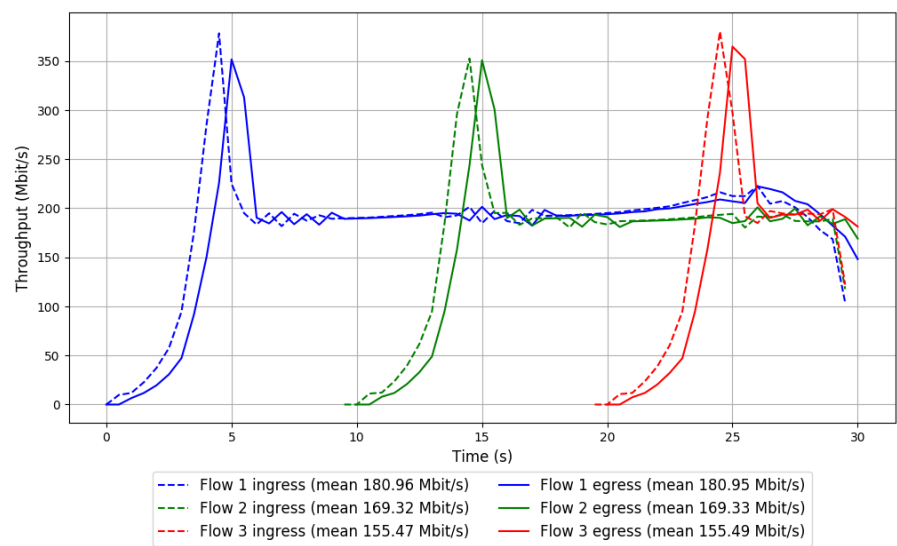


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-19 10:53:20
End at: 2018-06-19 10:53:50
Local clock offset: 0.016 ms
Remote clock offset: 0.321 ms

# Below is generated by plot.py at 2018-06-19 16:20:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 345.22 Mbit/s
95th percentile per-packet one-way delay: 159.129 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 180.95 Mbit/s
95th percentile per-packet one-way delay: 162.781 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 169.33 Mbit/s
95th percentile per-packet one-way delay: 144.662 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 155.49 Mbit/s
95th percentile per-packet one-way delay: 168.267 ms
Loss rate: 0.01%
```

Run 1: Report of PCC-Expr — Data Link

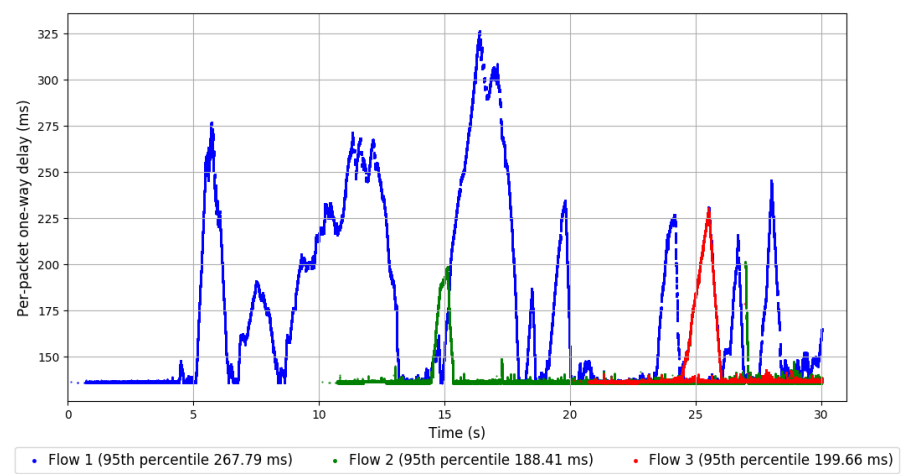
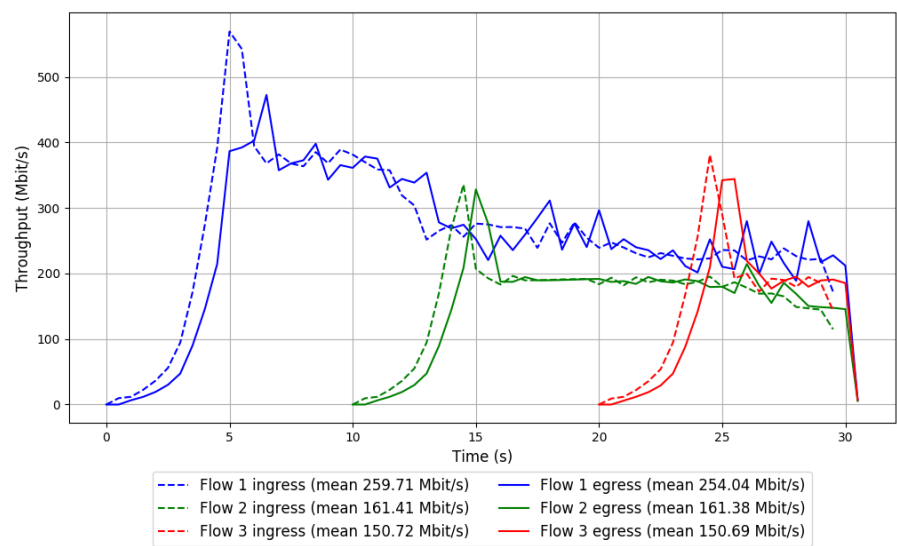


```
Run 2: Statistics of PCC-Expr

Start at: 2018-06-19 11:18:17
End at: 2018-06-19 11:18:47
Local clock offset: 0.116 ms
Remote clock offset: 0.126 ms

# Below is generated by plot.py at 2018-06-19 16:22:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 411.06 Mbit/s
95th percentile per-packet one-way delay: 259.327 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 254.04 Mbit/s
95th percentile per-packet one-way delay: 267.791 ms
Loss rate: 2.18%
-- Flow 2:
Average throughput: 161.38 Mbit/s
95th percentile per-packet one-way delay: 188.415 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 150.69 Mbit/s
95th percentile per-packet one-way delay: 199.661 ms
Loss rate: 0.01%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-06-19 11:43:12

End at: 2018-06-19 11:43:42

Local clock offset: -0.129 ms

Remote clock offset: 0.051 ms

Below is generated by plot.py at 2018-06-19 16:23:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 331.73 Mbit/s

95th percentile per-packet one-way delay: 154.412 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 196.92 Mbit/s

95th percentile per-packet one-way delay: 150.911 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 180.52 Mbit/s

95th percentile per-packet one-way delay: 181.369 ms

Loss rate: 0.00%

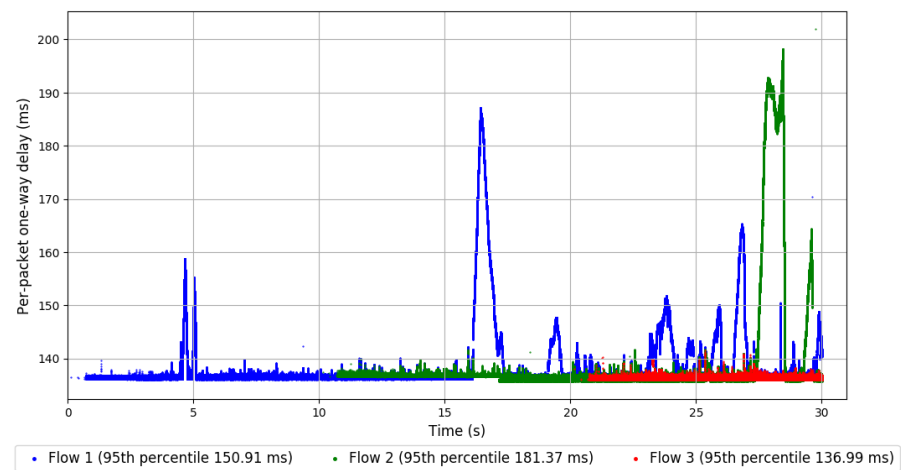
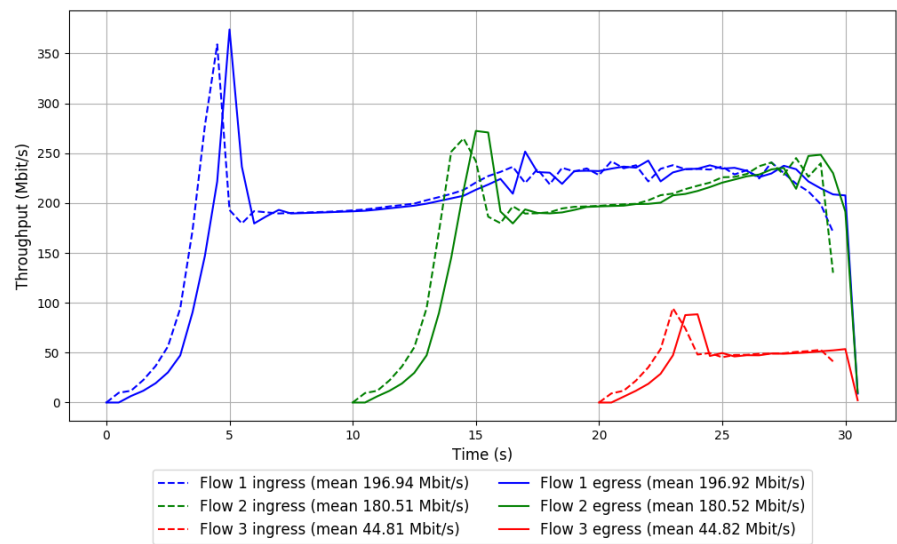
-- Flow 3:

Average throughput: 44.82 Mbit/s

95th percentile per-packet one-way delay: 136.994 ms

Loss rate: 0.00%

Run 3: Report of PCC-Expr — Data Link

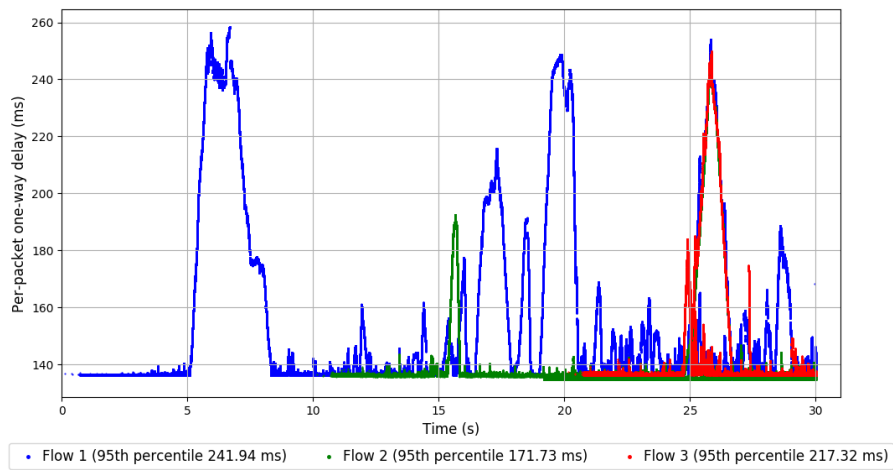
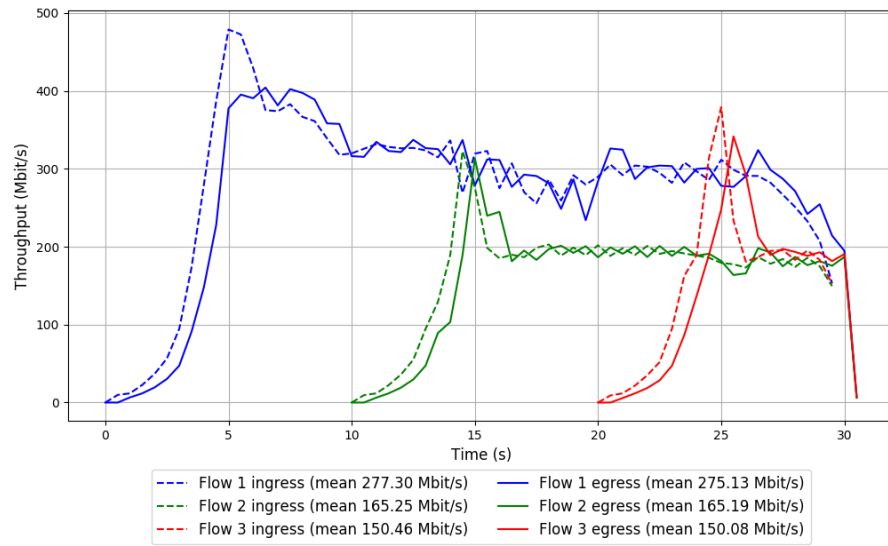


Run 4: Statistics of PCC-Expr

Start at: 2018-06-19 12:07:59
End at: 2018-06-19 12:08:29
Local clock offset: -0.231 ms
Remote clock offset: -0.458 ms

Below is generated by plot.py at 2018-06-19 16:27:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 434.47 Mbit/s
95th percentile per-packet one-way delay: 238.235 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 275.13 Mbit/s
95th percentile per-packet one-way delay: 241.937 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 165.19 Mbit/s
95th percentile per-packet one-way delay: 171.732 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 150.08 Mbit/s
95th percentile per-packet one-way delay: 217.316 ms
Loss rate: 0.49%

Run 4: Report of PCC-Expr — Data Link

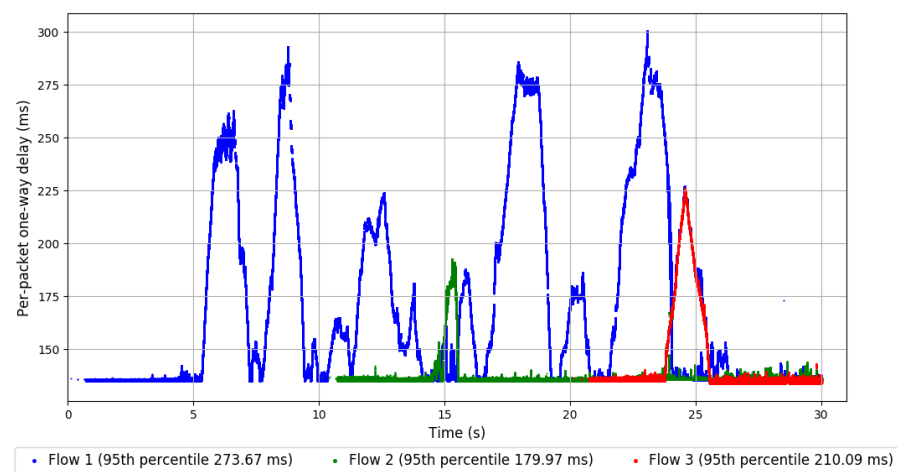
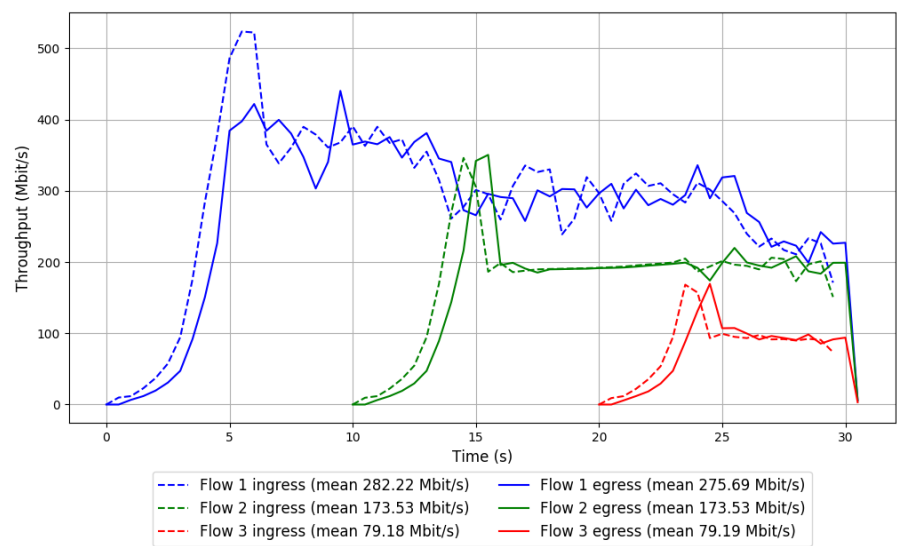


Run 5: Statistics of PCC-Expr

Start at: 2018-06-19 12:33:05
End at: 2018-06-19 12:33:35
Local clock offset: 0.213 ms
Remote clock offset: -0.331 ms

Below is generated by plot.py at 2018-06-19 16:33:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 417.17 Mbit/s
95th percentile per-packet one-way delay: 268.353 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 275.69 Mbit/s
95th percentile per-packet one-way delay: 273.672 ms
Loss rate: 2.32%
-- Flow 2:
Average throughput: 173.53 Mbit/s
95th percentile per-packet one-way delay: 179.973 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 79.19 Mbit/s
95th percentile per-packet one-way delay: 210.088 ms
Loss rate: 0.00%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-06-19 12:58:06

End at: 2018-06-19 12:58:36

Local clock offset: -0.027 ms

Remote clock offset: 0.132 ms

Below is generated by plot.py at 2018-06-19 16:33:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 417.60 Mbit/s

95th percentile per-packet one-way delay: 200.405 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 274.09 Mbit/s

95th percentile per-packet one-way delay: 200.517 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 175.04 Mbit/s

95th percentile per-packet one-way delay: 212.956 ms

Loss rate: 0.00%

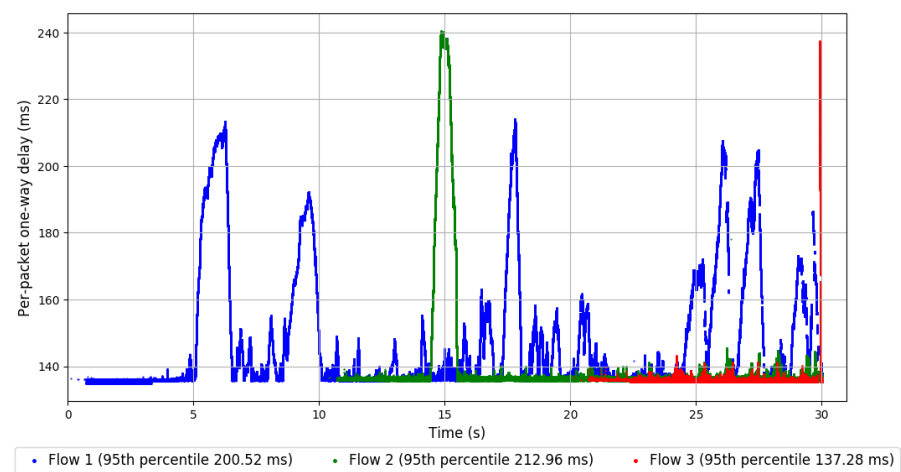
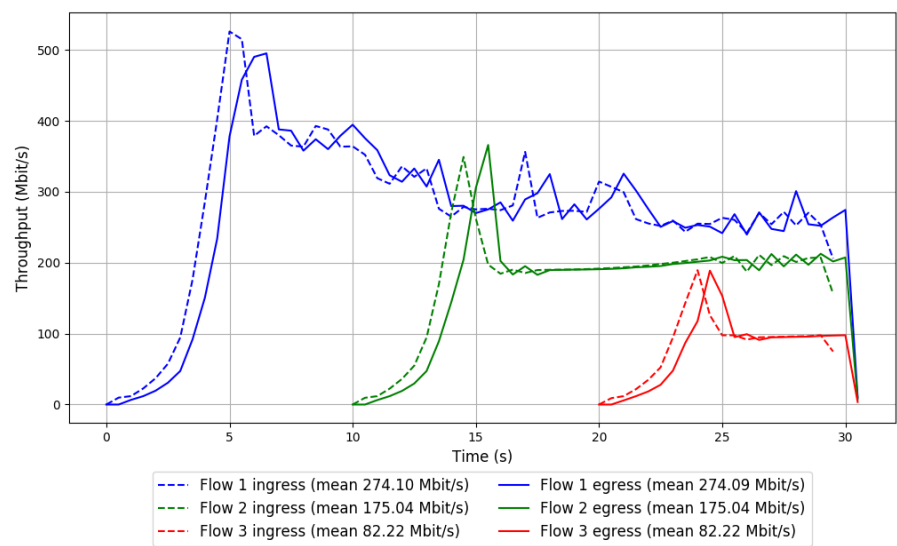
-- Flow 3:

Average throughput: 82.22 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-06-19 13:22:54

End at: 2018-06-19 13:23:24

Local clock offset: 0.023 ms

Remote clock offset: 0.142 ms

Below is generated by plot.py at 2018-06-19 16:33:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 329.98 Mbit/s

95th percentile per-packet one-way delay: 151.218 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 194.91 Mbit/s

95th percentile per-packet one-way delay: 153.623 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 180.72 Mbit/s

95th percentile per-packet one-way delay: 148.160 ms

Loss rate: 0.00%

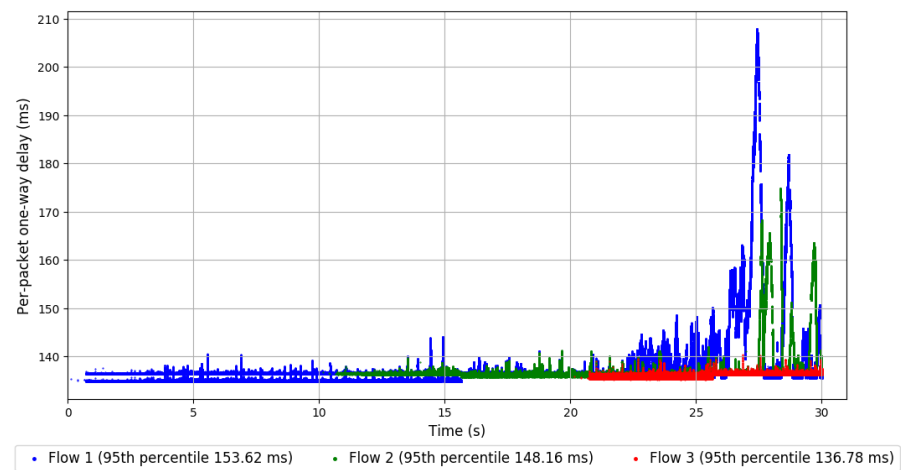
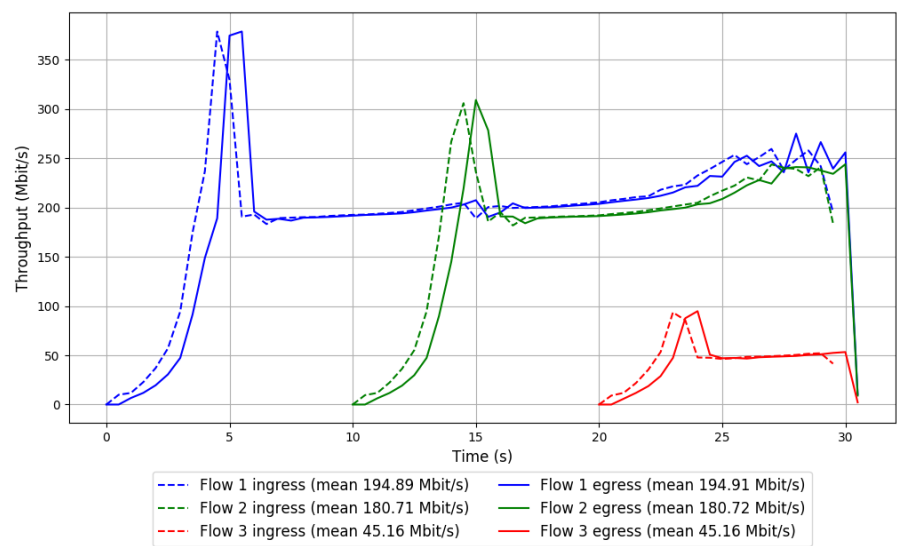
-- Flow 3:

Average throughput: 45.16 Mbit/s

95th percentile per-packet one-way delay: 136.785 ms

Loss rate: 0.00%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-06-19 13:47:34

End at: 2018-06-19 13:48:04

Local clock offset: 0.061 ms

Remote clock offset: 0.412 ms

Below is generated by plot.py at 2018-06-19 16:33:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 339.81 Mbit/s

95th percentile per-packet one-way delay: 256.897 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 256.01 Mbit/s

95th percentile per-packet one-way delay: 274.508 ms

Loss rate: 2.01%

-- Flow 2:

Average throughput: 104.02 Mbit/s

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

Loss rate: 0.00%

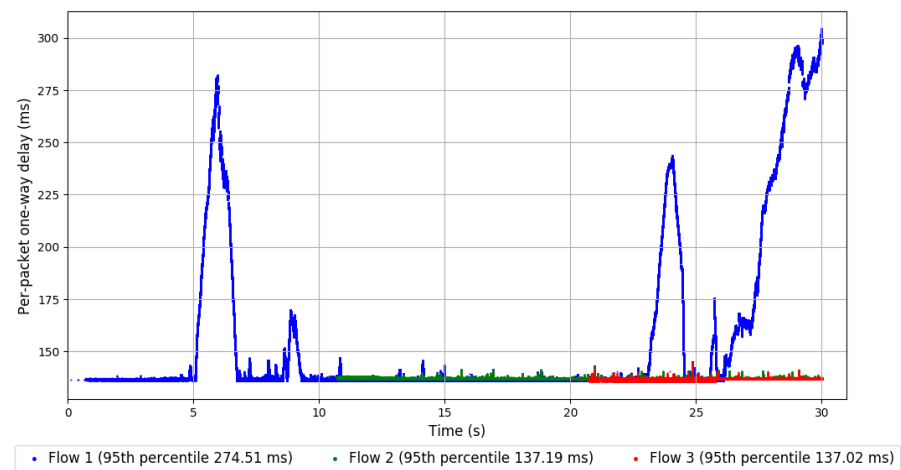
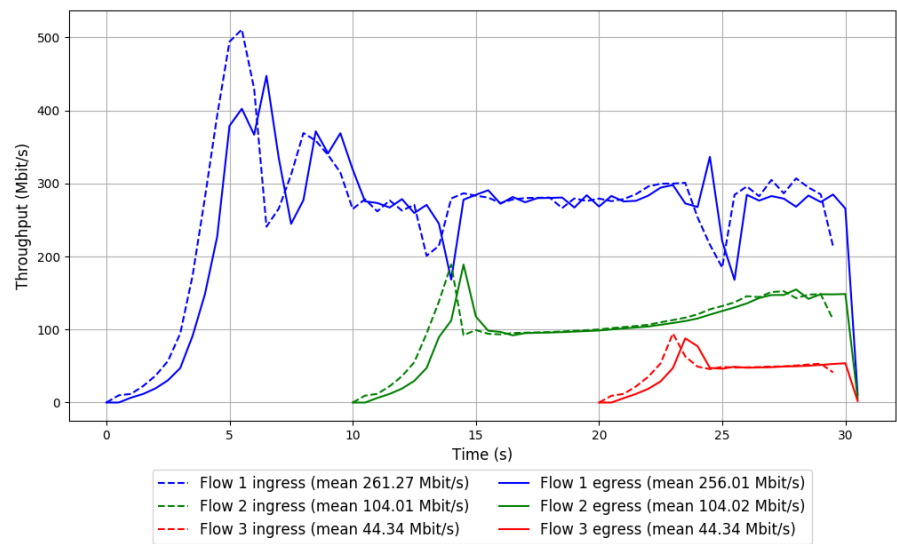
-- Flow 3:

Average throughput: 44.34 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of PCC-Expr — Data Link

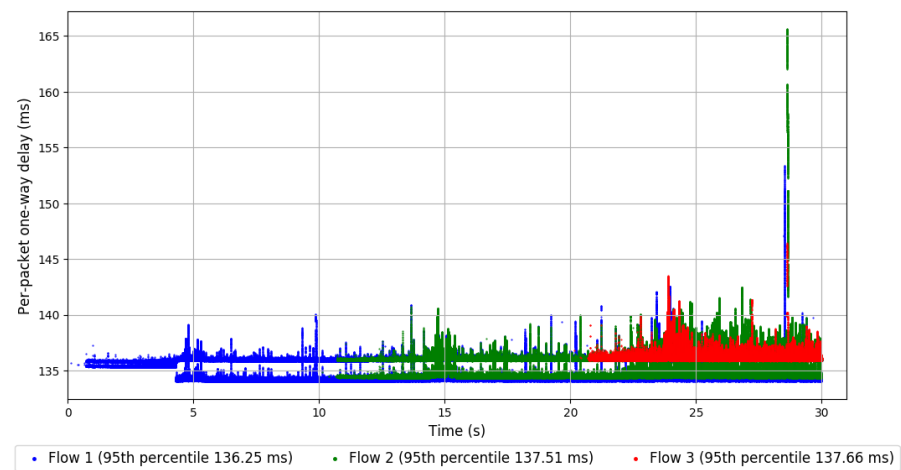
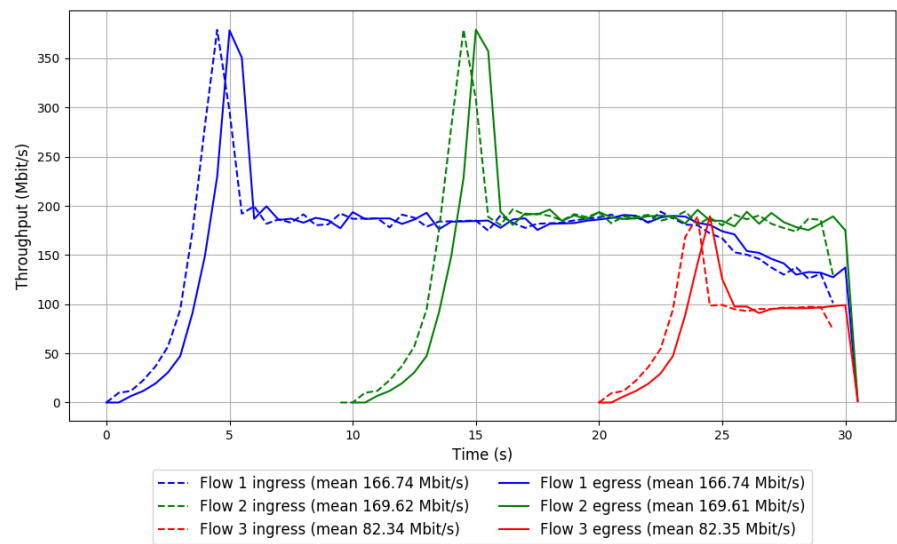


Run 9: Statistics of PCC-Expr

Start at: 2018-06-19 14:12:45
End at: 2018-06-19 14:13:15
Local clock offset: 0.043 ms
Remote clock offset: -0.342 ms

Below is generated by plot.py at 2018-06-19 16:33:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 306.77 Mbit/s
95th percentile per-packet one-way delay: 136.958 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 166.74 Mbit/s
95th percentile per-packet one-way delay: 136.252 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 169.61 Mbit/s
95th percentile per-packet one-way delay: 137.507 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 82.35 Mbit/s
95th percentile per-packet one-way delay: 137.663 ms
Loss rate: 0.00%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-06-19 14:37:08

End at: 2018-06-19 14:37:38

Local clock offset: -0.091 ms

Remote clock offset: 0.049 ms

Below is generated by plot.py at 2018-06-19 16:39:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 442.71 Mbit/s

95th percentile per-packet one-way delay: 177.722 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 301.51 Mbit/s

95th percentile per-packet one-way delay: 183.012 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 172.24 Mbit/s

95th percentile per-packet one-way delay: 163.472 ms

Loss rate: 0.10%

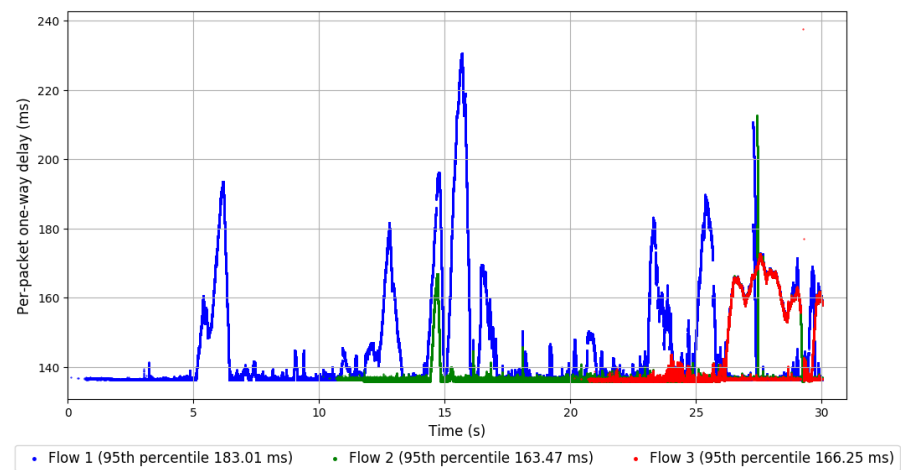
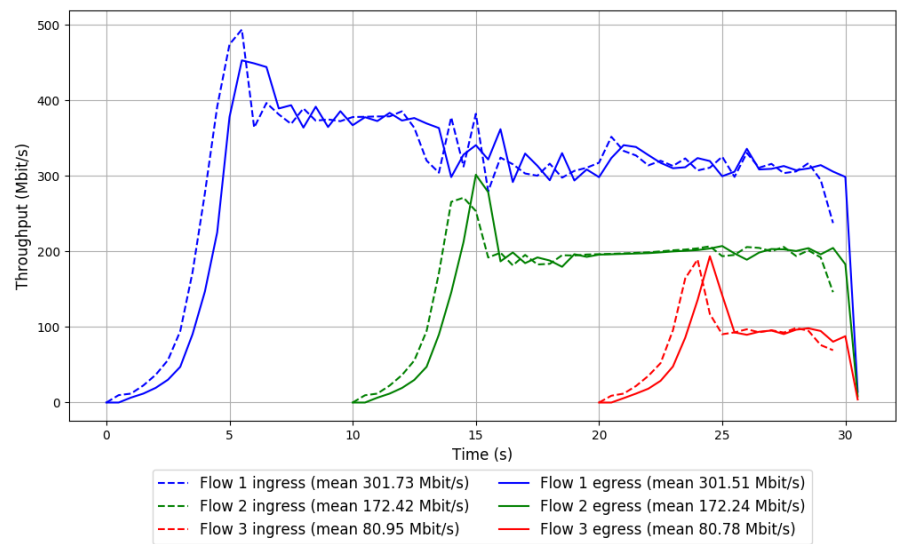
-- Flow 3:

Average throughput: 80.78 Mbit/s

95th percentile per-packet one-way delay: 166.248 ms

Loss rate: 0.22%

Run 10: Report of PCC-Expr — Data Link

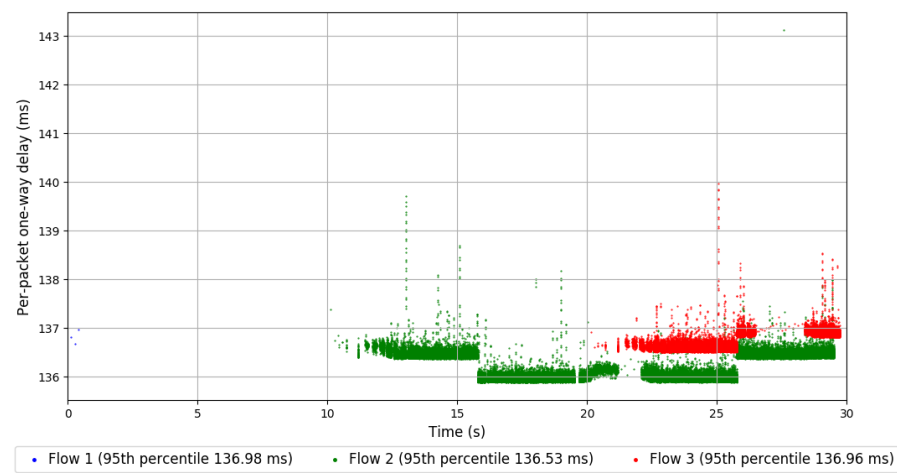
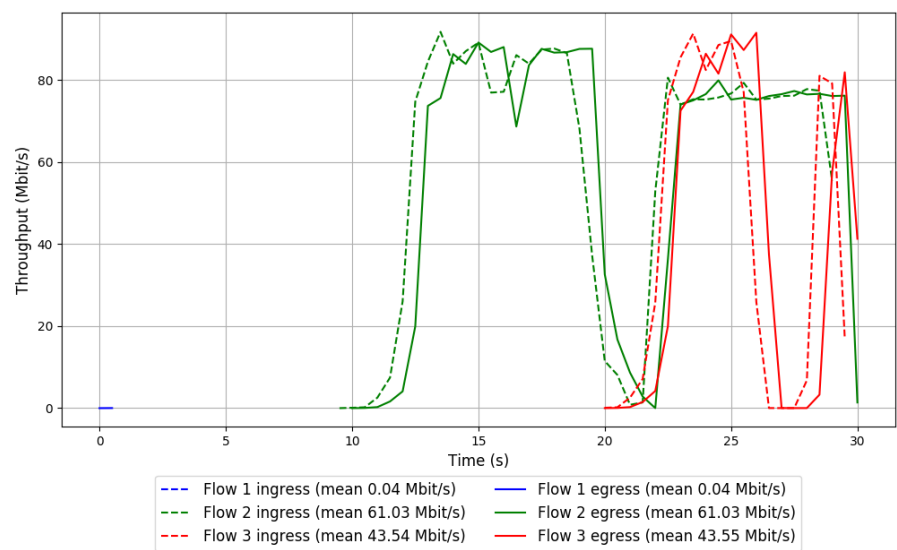


Run 1: Statistics of QUIC Cubic

Start at: 2018-06-19 10:47:33
End at: 2018-06-19 10:48:03
Local clock offset: 0.003 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2018-06-19 16:39:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 54.06 Mbit/s
95th percentile per-packet one-way delay: 136.884 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 136.976 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 61.03 Mbit/s
95th percentile per-packet one-way delay: 136.531 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 43.55 Mbit/s
95th percentile per-packet one-way delay: 136.959 ms
Loss rate: 0.01%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-06-19 11:12:34

End at: 2018-06-19 11:13:04

Local clock offset: 0.195 ms

Remote clock offset: 0.445 ms

Below is generated by plot.py at 2018-06-19 16:39:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 100.33 Mbit/s

95th percentile per-packet one-way delay: 136.878 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.84 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.84 Mbit/s

95th percentile per-packet one-way delay: 136.868 ms

Loss rate: 0.00%

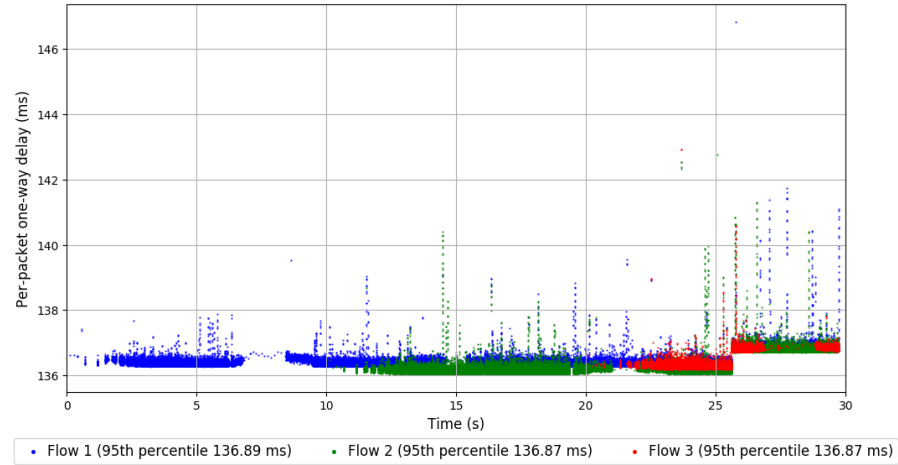
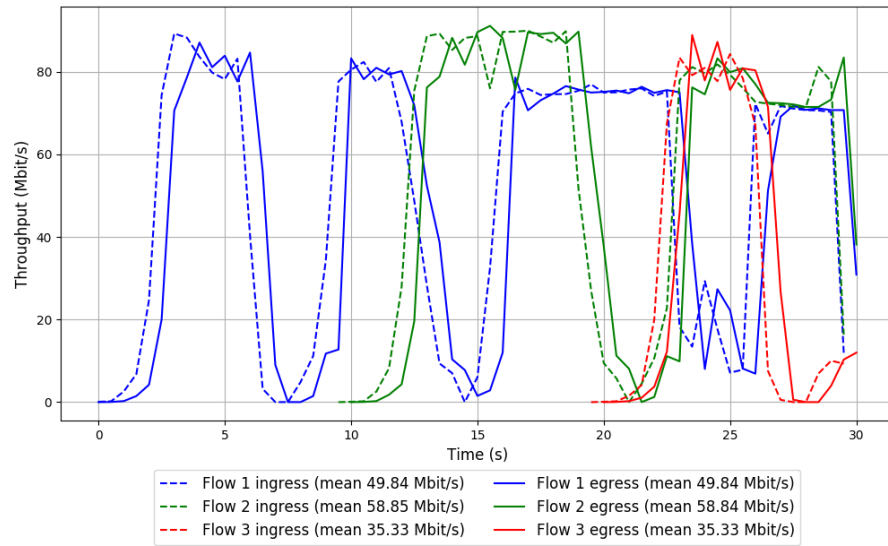
-- Flow 3:

Average throughput: 35.33 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-06-19 11:37:26

End at: 2018-06-19 11:37:56

Local clock offset: 0.522 ms

Remote clock offset: 0.199 ms

Below is generated by plot.py at 2018-06-19 16:39:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 102.92 Mbit/s

95th percentile per-packet one-way delay: 136.527 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 51.89 Mbit/s

95th percentile per-packet one-way delay: 136.563 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.75 Mbit/s

95th percentile per-packet one-way delay: 135.803 ms

Loss rate: 0.00%

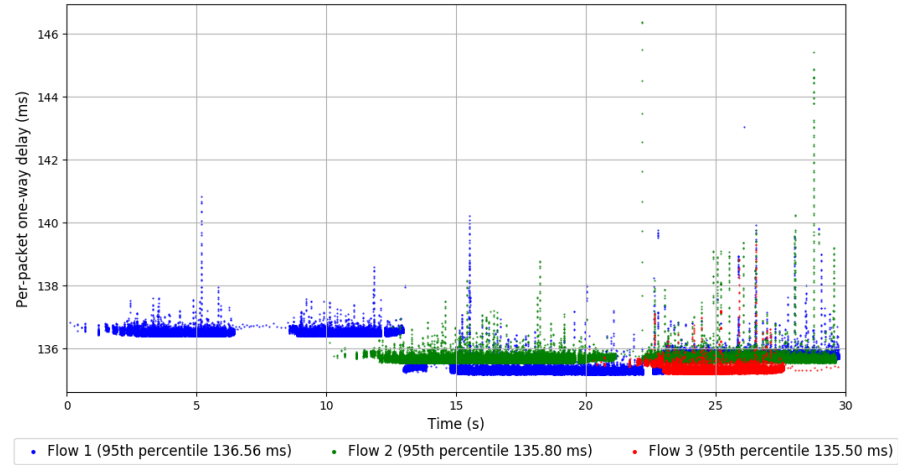
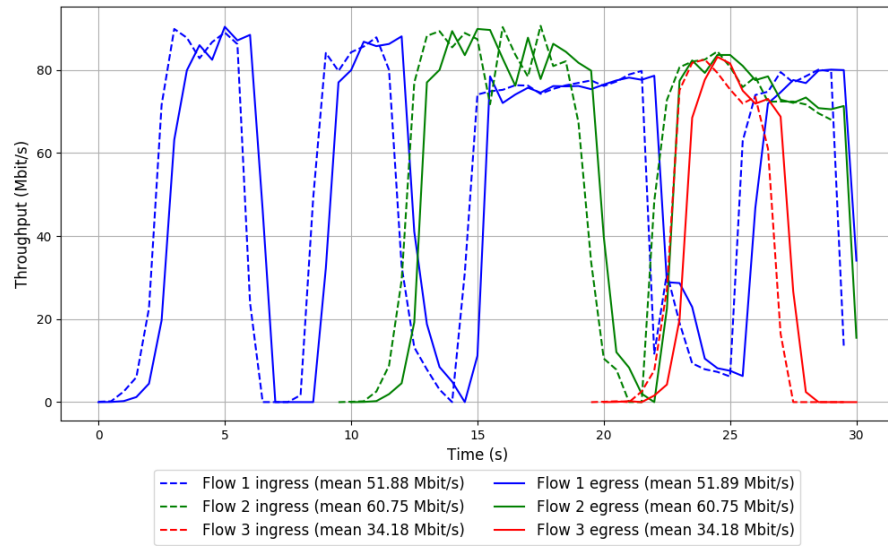
-- Flow 3:

Average throughput: 34.18 Mbit/s

95th percentile per-packet one-way delay: 135.498 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link

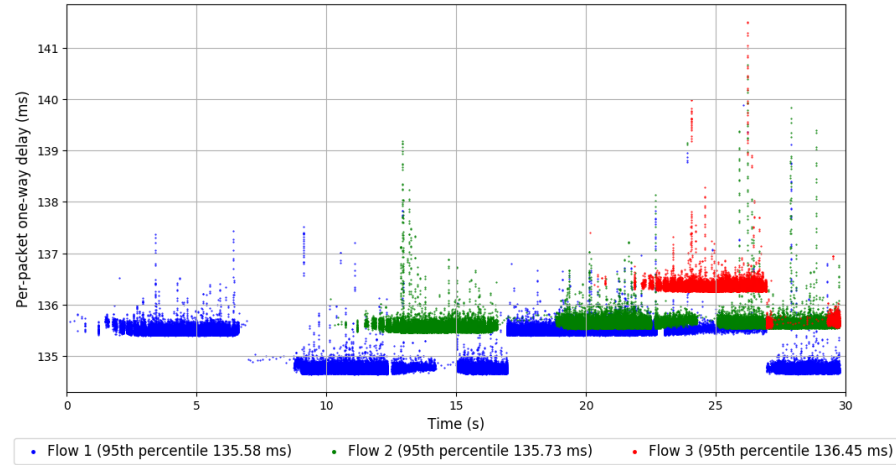
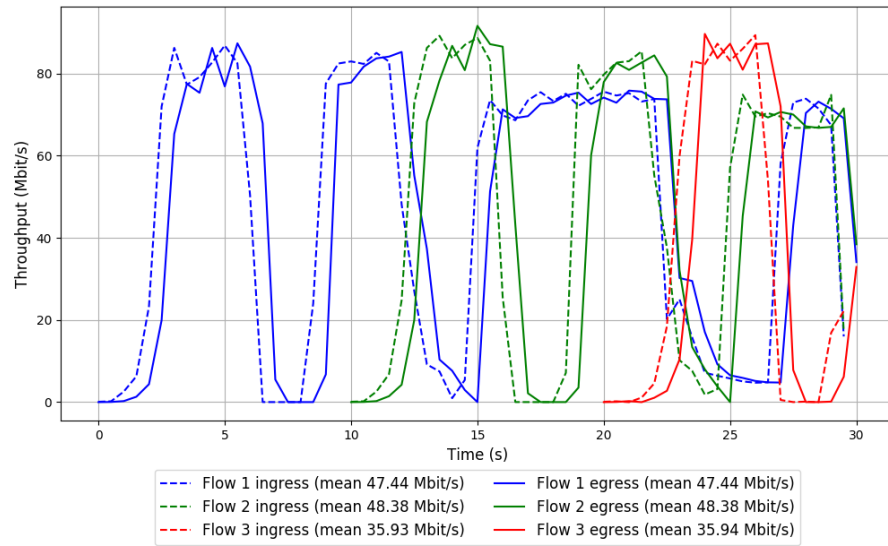


Run 4: Statistics of QUIC Cubic

Start at: 2018-06-19 12:02:12
End at: 2018-06-19 12:02:42
Local clock offset: -0.188 ms
Remote clock offset: -0.459 ms

Below is generated by plot.py at 2018-06-19 16:39:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.09 Mbit/s
95th percentile per-packet one-way delay: 136.346 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.44 Mbit/s
95th percentile per-packet one-way delay: 135.577 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 48.38 Mbit/s
95th percentile per-packet one-way delay: 135.733 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 35.94 Mbit/s
95th percentile per-packet one-way delay: 136.452 ms
Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-06-19 12:27:19

End at: 2018-06-19 12:27:49

Local clock offset: -0.09 ms

Remote clock offset: 0.035 ms

Below is generated by plot.py at 2018-06-19 16:39:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.67 Mbit/s

95th percentile per-packet one-way delay: 136.751 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.63 Mbit/s

95th percentile per-packet one-way delay: 136.458 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.81 Mbit/s

95th percentile per-packet one-way delay: 136.626 ms

Loss rate: 0.00%

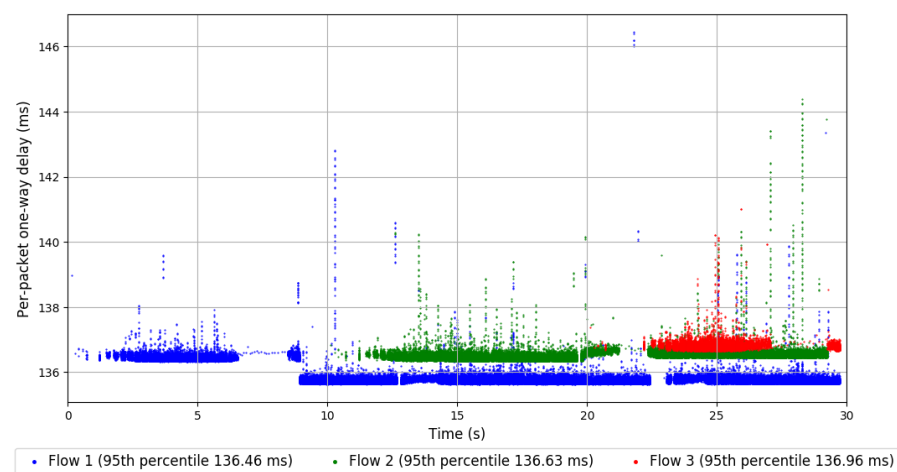
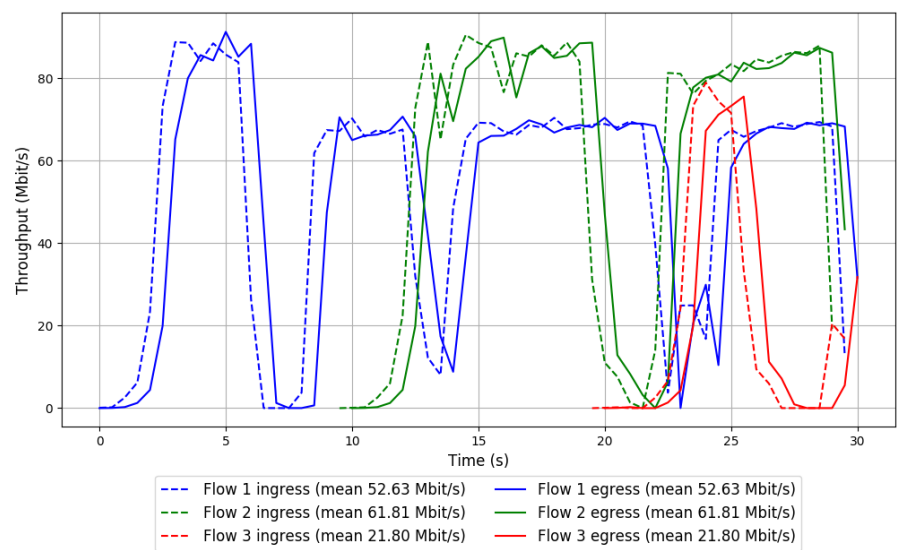
-- Flow 3:

Average throughput: 21.80 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-06-19 12:52:17

End at: 2018-06-19 12:52:47

Local clock offset: -0.094 ms

Remote clock offset: 0.48 ms

Below is generated by plot.py at 2018-06-19 16:39:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 109.94 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 51.75 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.12 Mbit/s

95th percentile per-packet one-way delay: 136.477 ms

Loss rate: 0.00%

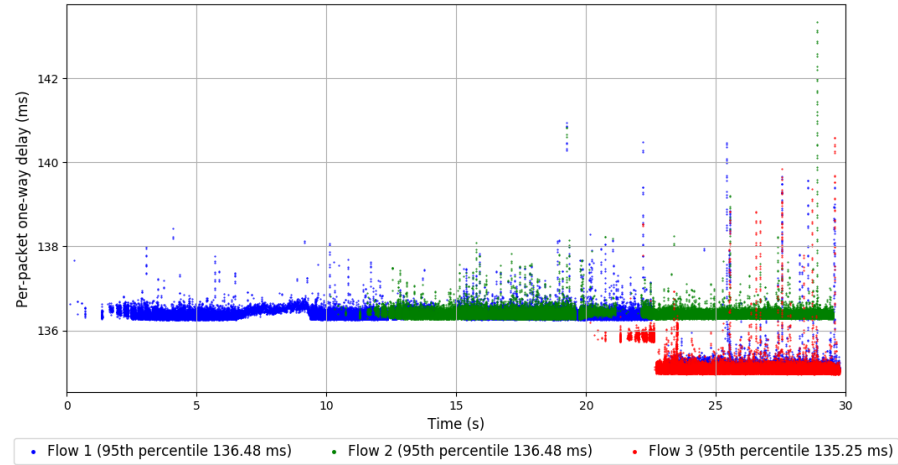
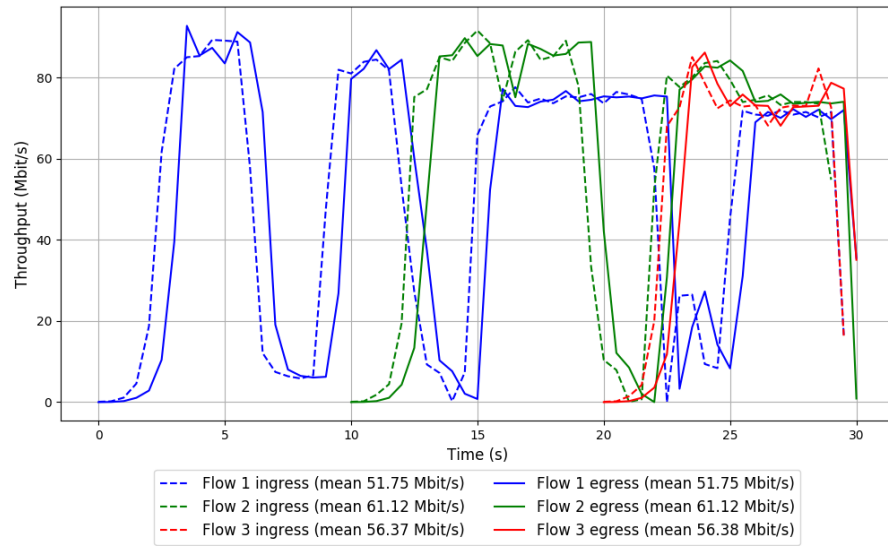
-- Flow 3:

Average throughput: 56.38 Mbit/s

95th percentile per-packet one-way delay: 135.253 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-06-19 13:17:11

End at: 2018-06-19 13:17:41

Local clock offset: 0.085 ms

Remote clock offset: 0.174 ms

Below is generated by plot.py at 2018-06-19 16:39:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.77 Mbit/s

95th percentile per-packet one-way delay: 136.426 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 47.79 Mbit/s

95th percentile per-packet one-way delay: 136.465 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.85 Mbit/s

95th percentile per-packet one-way delay: 135.813 ms

Loss rate: 0.00%

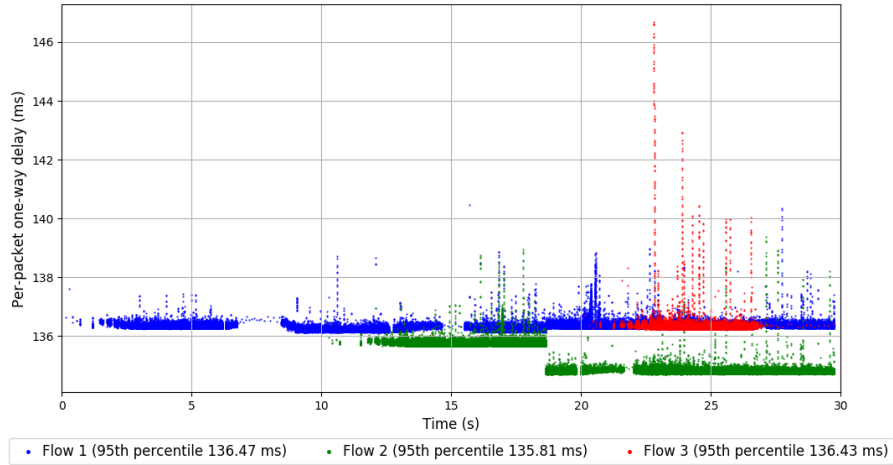
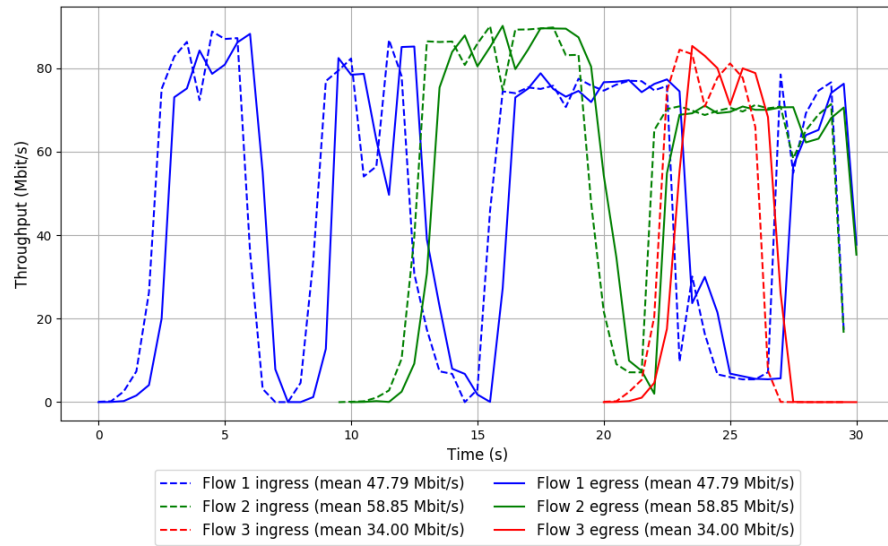
-- Flow 3:

Average throughput: 34.00 Mbit/s

95th percentile per-packet one-way delay: 136.432 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-06-19 13:41:44

End at: 2018-06-19 13:42:14

Local clock offset: -0.189 ms

Remote clock offset: 0.04 ms

Below is generated by plot.py at 2018-06-19 16:39:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 110.23 Mbit/s

95th percentile per-packet one-way delay: 136.717 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 60.19 Mbit/s

95th percentile per-packet one-way delay: 136.738 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.50 Mbit/s

95th percentile per-packet one-way delay: 135.217 ms

Loss rate: 0.00%

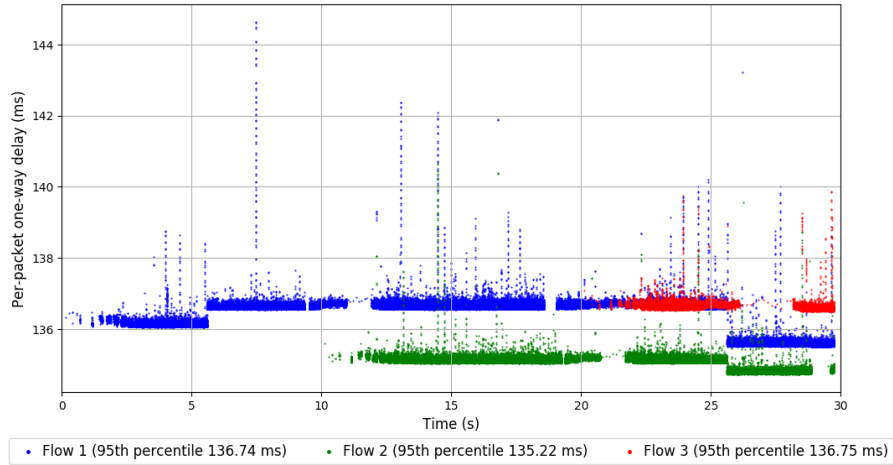
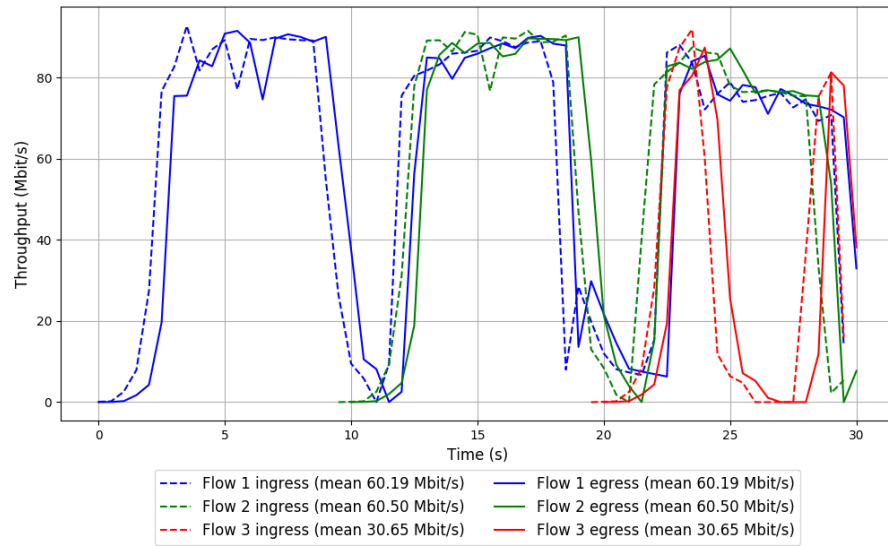
-- Flow 3:

Average throughput: 30.65 Mbit/s

95th percentile per-packet one-way delay: 136.755 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link

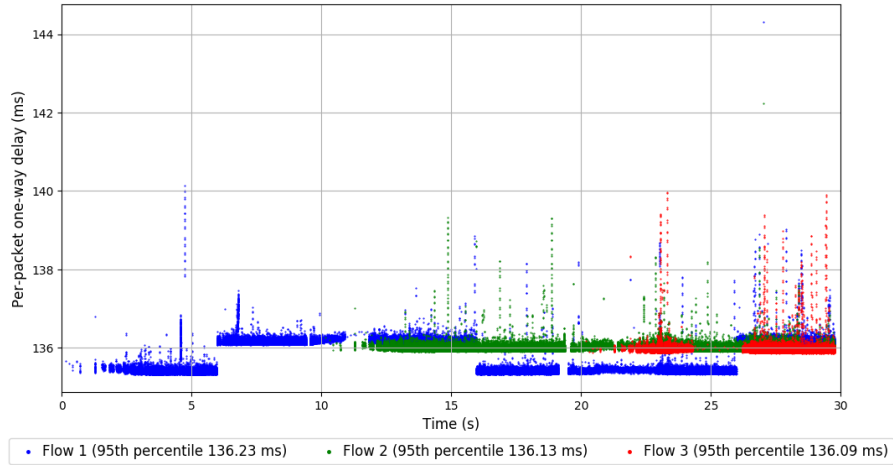
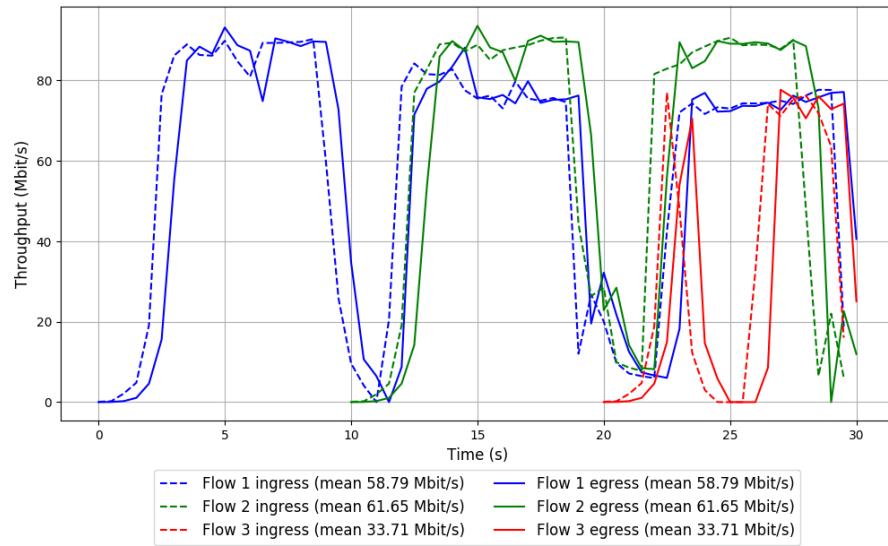


Run 9: Statistics of QUIC Cubic

Start at: 2018-06-19 14:06:53
End at: 2018-06-19 14:07:23
Local clock offset: 0.032 ms
Remote clock offset: -0.346 ms

Below is generated by plot.py at 2018-06-19 16:39:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 110.53 Mbit/s
95th percentile per-packet one-way delay: 136.215 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.79 Mbit/s
95th percentile per-packet one-way delay: 136.234 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 61.65 Mbit/s
95th percentile per-packet one-way delay: 136.127 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 33.71 Mbit/s
95th percentile per-packet one-way delay: 136.092 ms
Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-06-19 14:31:19

End at: 2018-06-19 14:31:49

Local clock offset: 0.102 ms

Remote clock offset: 0.035 ms

Below is generated by plot.py at 2018-06-19 16:39:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.03 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 51.69 Mbit/s

95th percentile per-packet one-way delay: 136.405 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.11 Mbit/s

95th percentile per-packet one-way delay: 136.429 ms

Loss rate: 0.00%

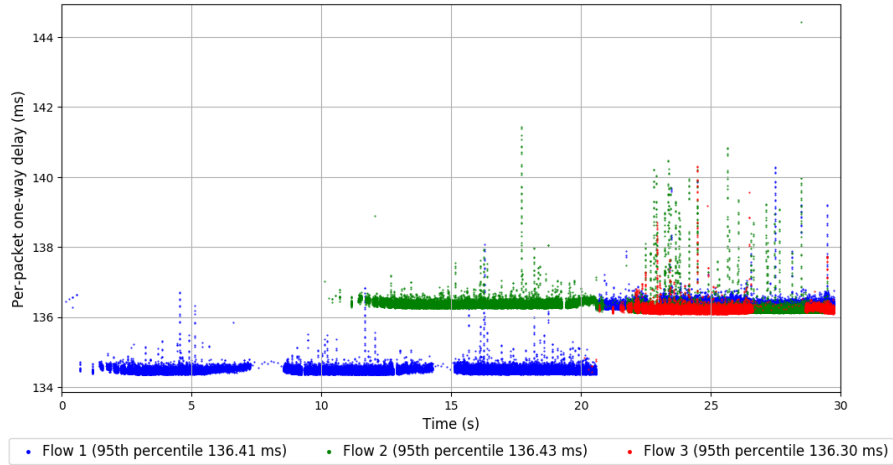
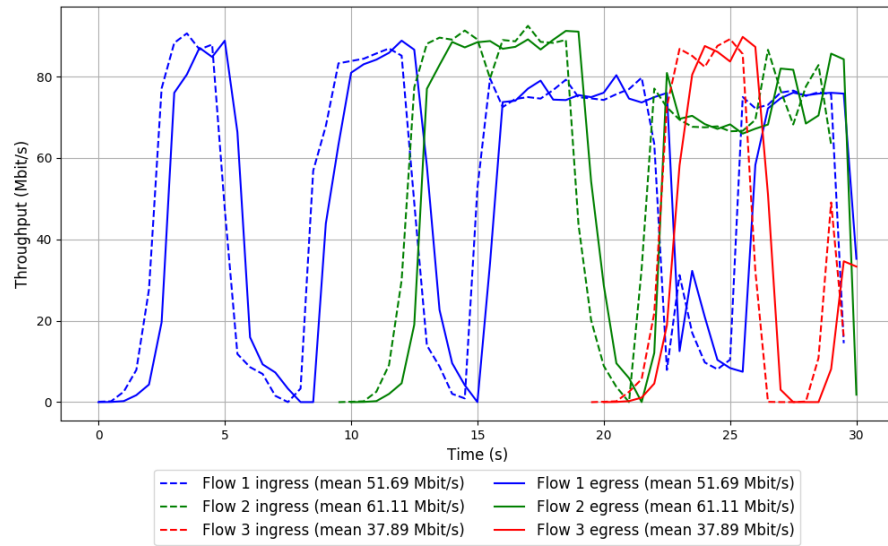
-- Flow 3:

Average throughput: 37.89 Mbit/s

95th percentile per-packet one-way delay: 136.300 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

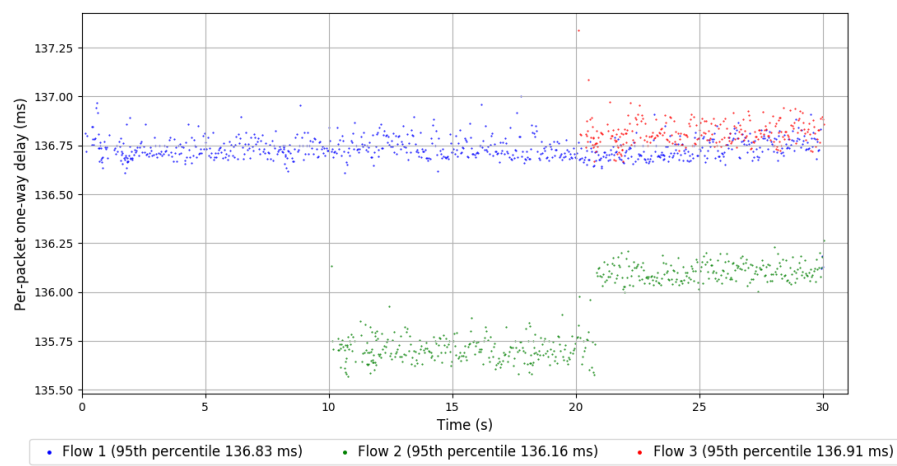
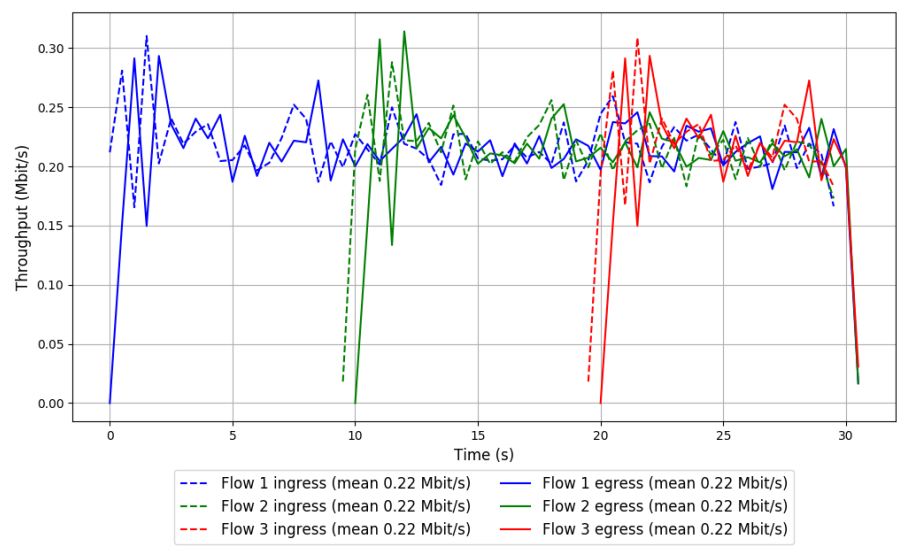


Run 1: Statistics of SReAM

Start at: 2018-06-19 10:50:49
End at: 2018-06-19 10:51:19
Local clock offset: -0.298 ms
Remote clock offset: -0.412 ms

Below is generated by plot.py at 2018-06-19 16:39:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.859 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.829 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.162 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.910 ms
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

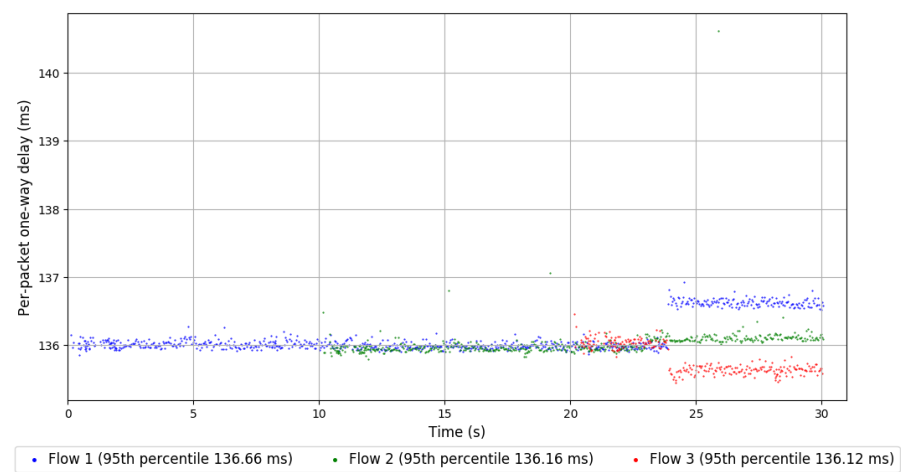
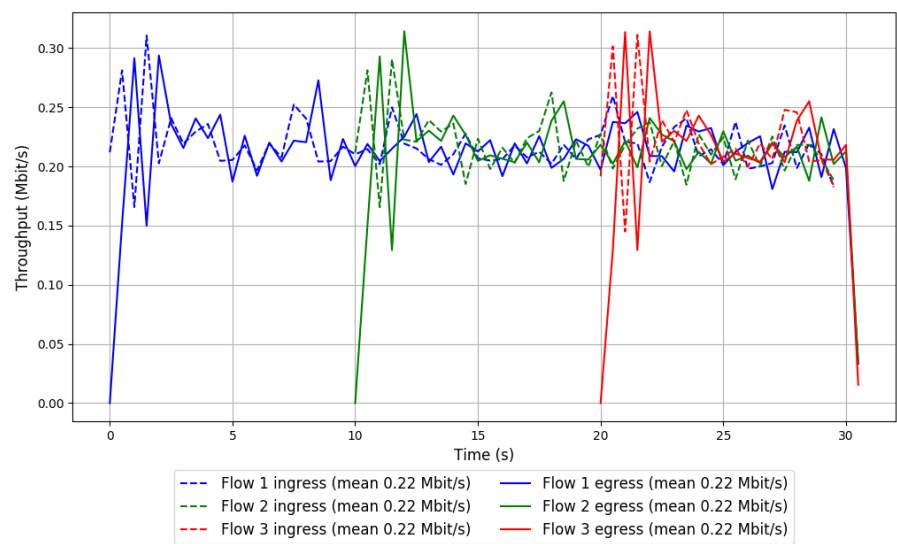


```
Run 2: Statistics of SReAM

Start at: 2018-06-19 11:15:46
End at: 2018-06-19 11:16:16
Local clock offset: 0.193 ms
Remote clock offset: 0.124 ms

# Below is generated by plot.py at 2018-06-19 16:39:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.623 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.660 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.157 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.123 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

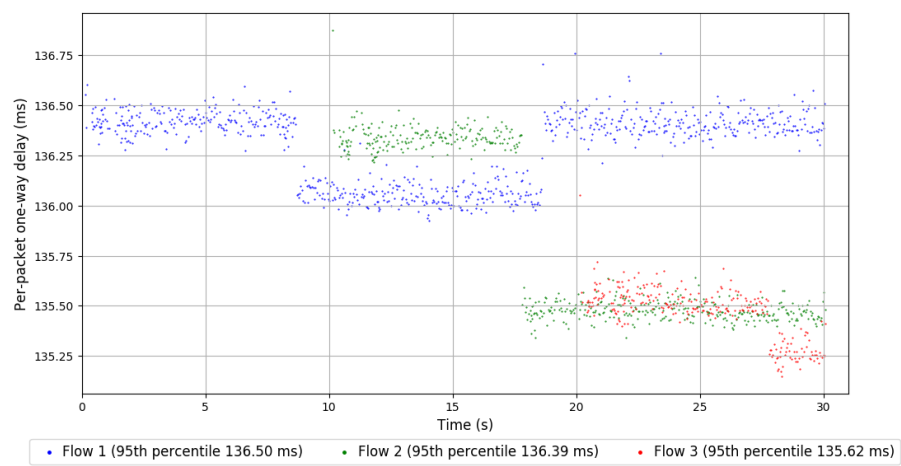
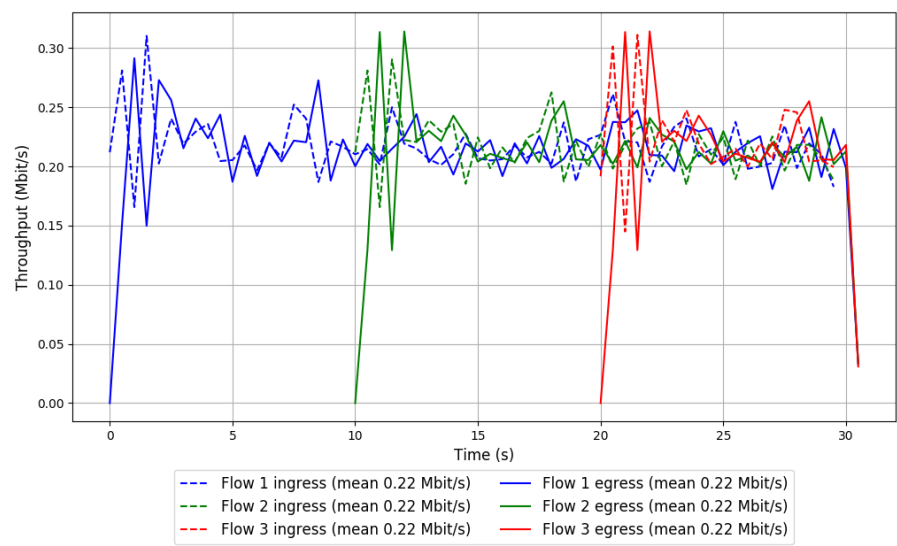


Run 3: Statistics of SReAM

Start at: 2018-06-19 11:40:41
End at: 2018-06-19 11:41:11
Local clock offset: 0.331 ms
Remote clock offset: -0.227 ms

Below is generated by plot.py at 2018-06-19 16:39:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.480 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.501 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.391 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.623 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

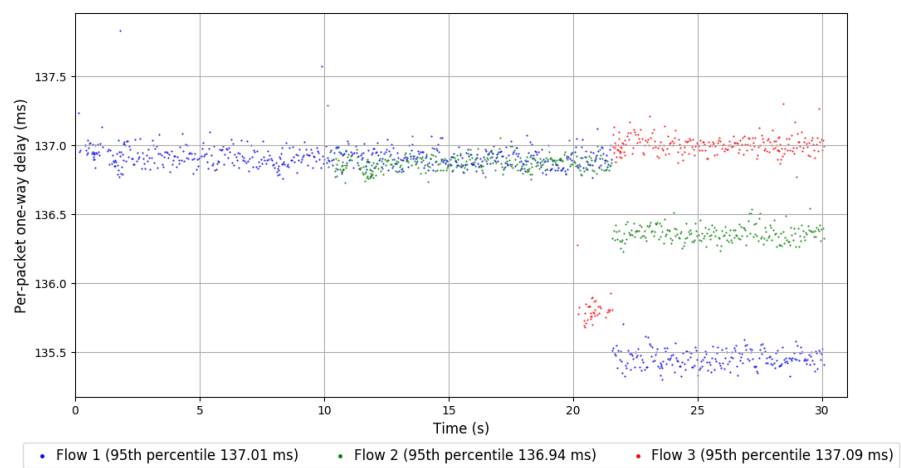
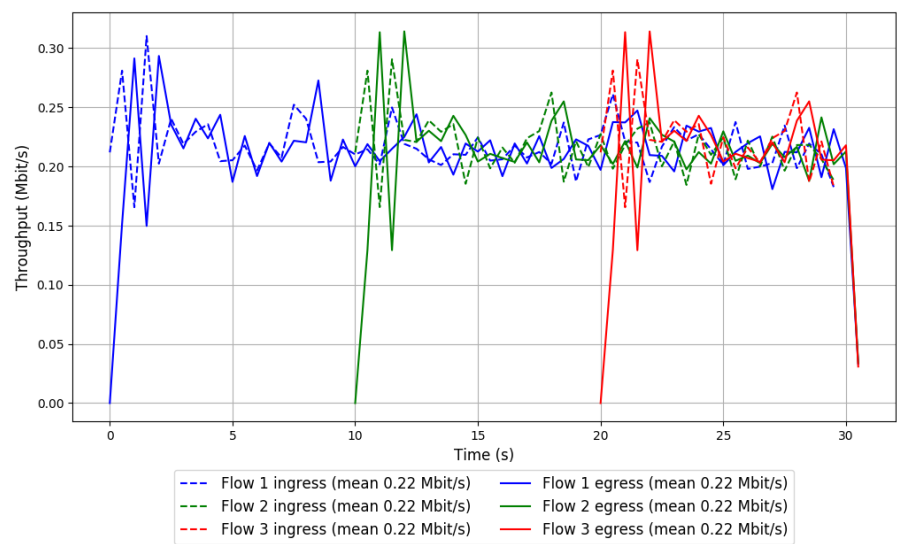


Run 4: Statistics of SReAM

Start at: 2018-06-19 12:05:28
End at: 2018-06-19 12:05:58
Local clock offset: -0.278 ms
Remote clock offset: -0.119 ms

Below is generated by plot.py at 2018-06-19 16:39:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.036 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.009 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.940 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.095 ms
Loss rate: 0.00%

Run 4: Report of SCReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-06-19 12:30:34

End at: 2018-06-19 12:31:04

Local clock offset: 0.024 ms

Remote clock offset: 0.044 ms

Below is generated by plot.py at 2018-06-19 16:39:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.909 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 136.679 ms

Loss rate: 0.00%

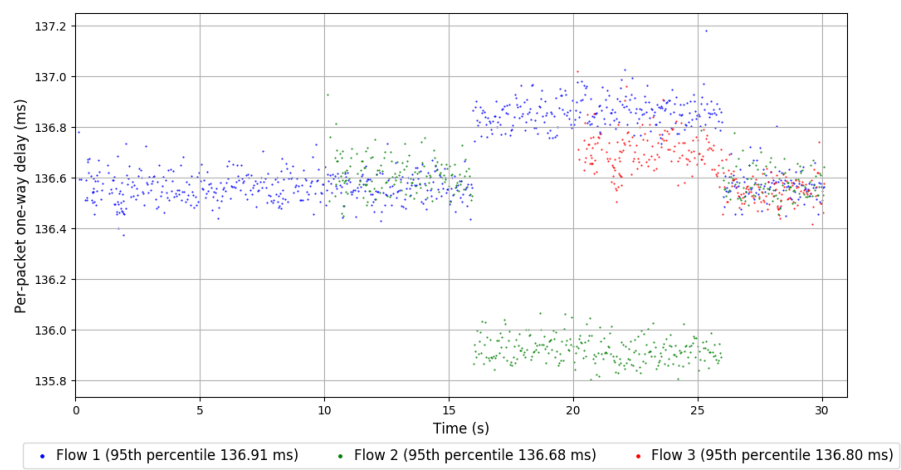
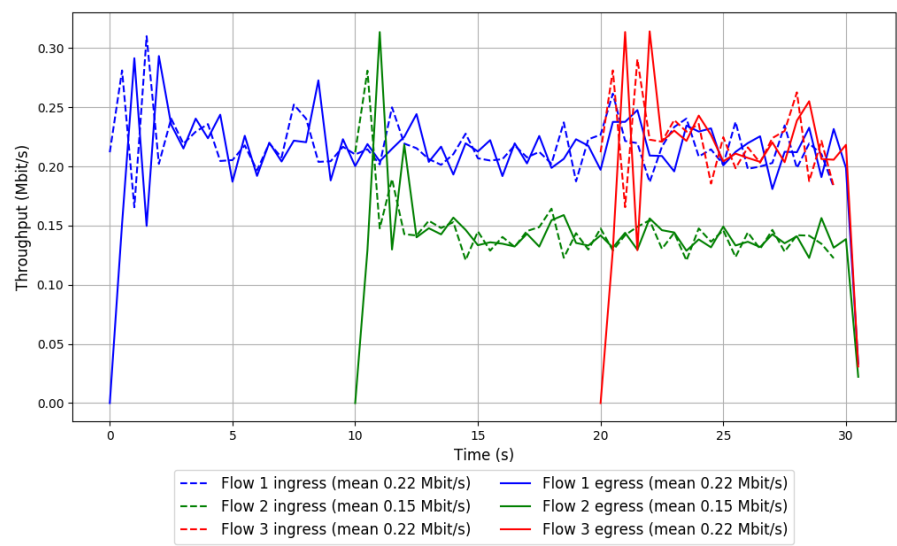
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.801 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

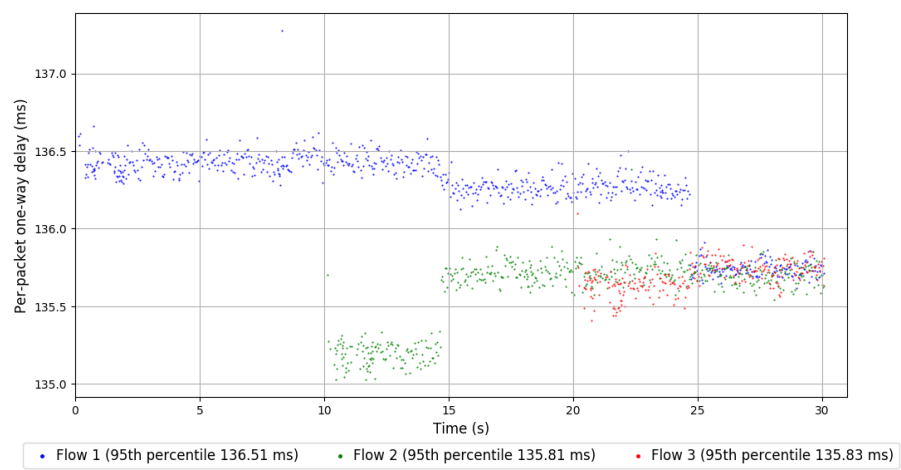
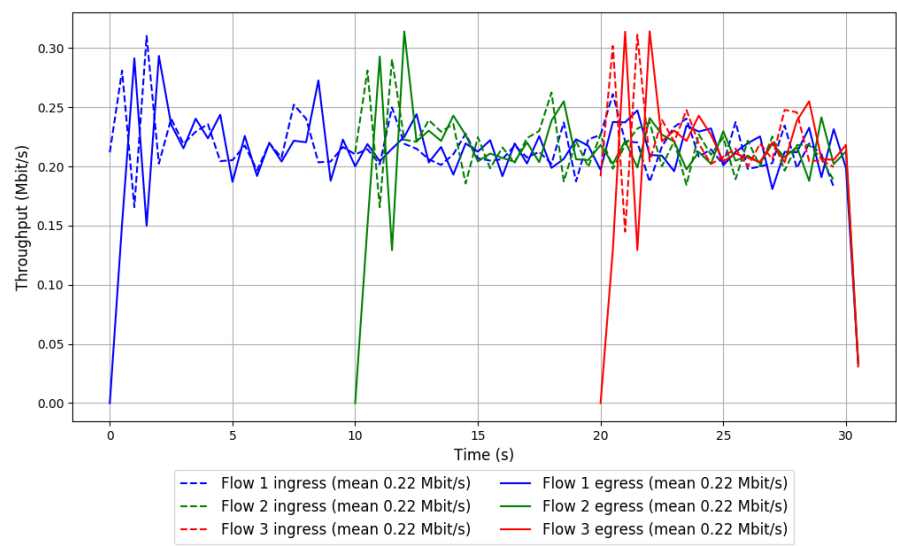


Run 6: Statistics of SReAM

Start at: 2018-06-19 12:55:35
End at: 2018-06-19 12:56:05
Local clock offset: -0.027 ms
Remote clock offset: -0.284 ms

Below is generated by plot.py at 2018-06-19 16:39:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.478 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.506 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.813 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.831 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2018-06-19 13:20:23

End at: 2018-06-19 13:20:53

Local clock offset: 0.113 ms

Remote clock offset: 0.499 ms

Below is generated by plot.py at 2018-06-19 16:39:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 137.045 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.063 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.394 ms

Loss rate: 0.00%

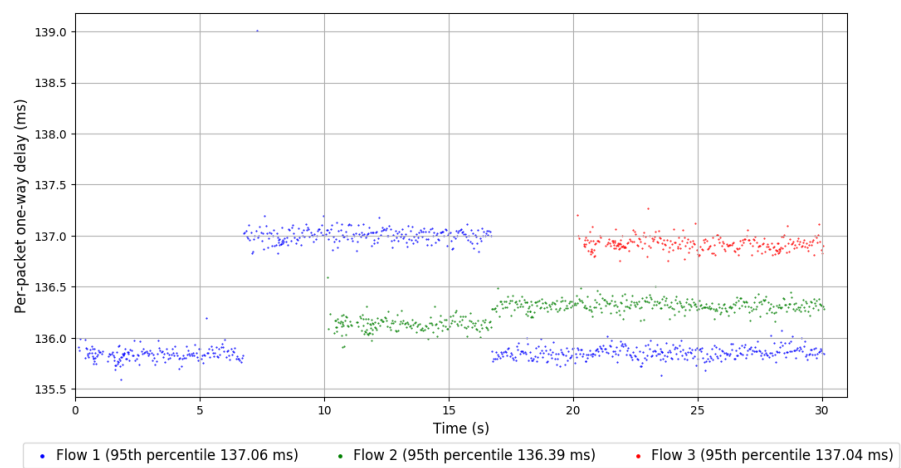
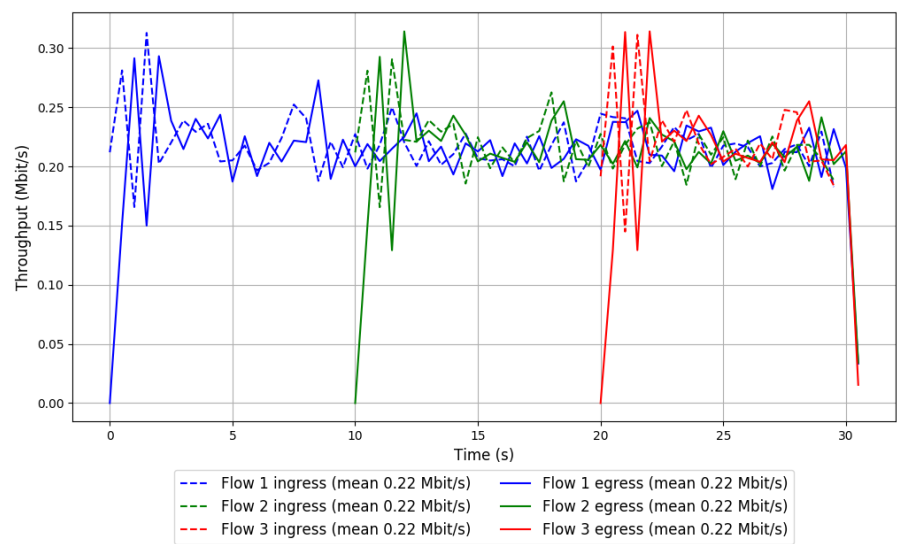
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-06-19 13:45:03

End at: 2018-06-19 13:45:33

Local clock offset: 0.007 ms

Remote clock offset: 0.029 ms

Below is generated by plot.py at 2018-06-19 16:39:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 136.912 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.954 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

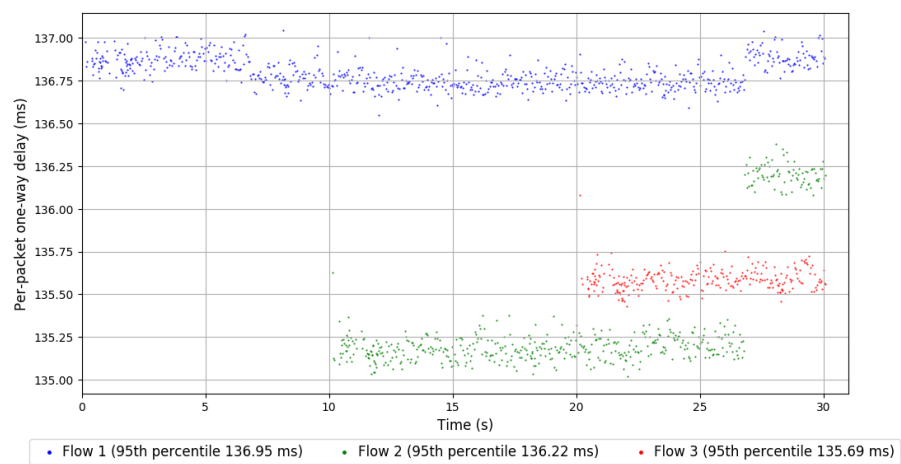
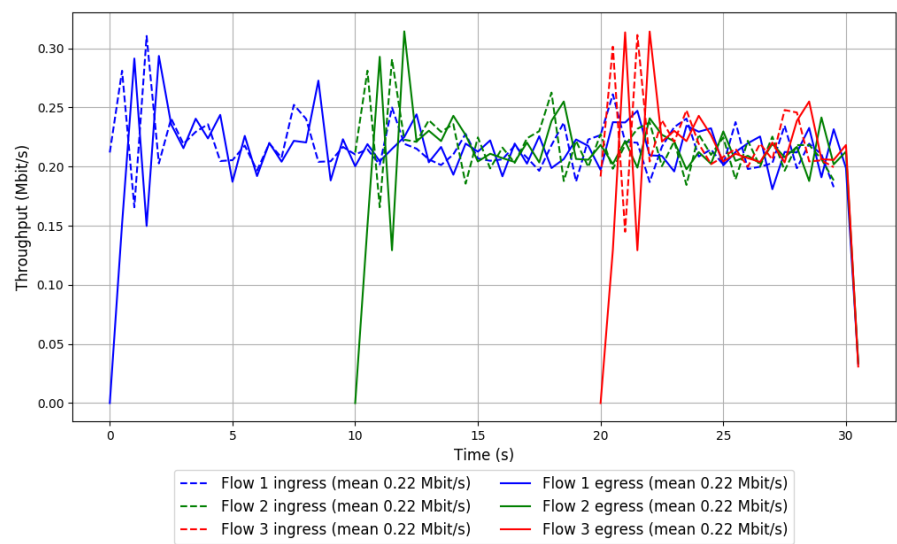
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.686 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

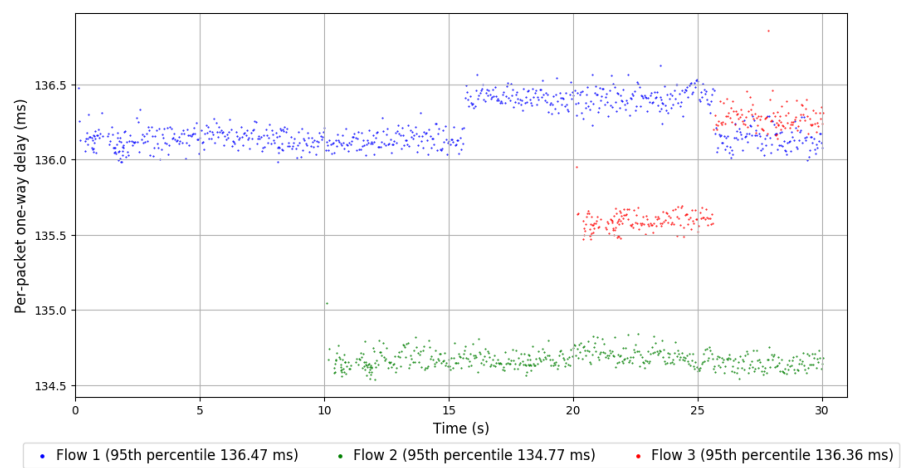
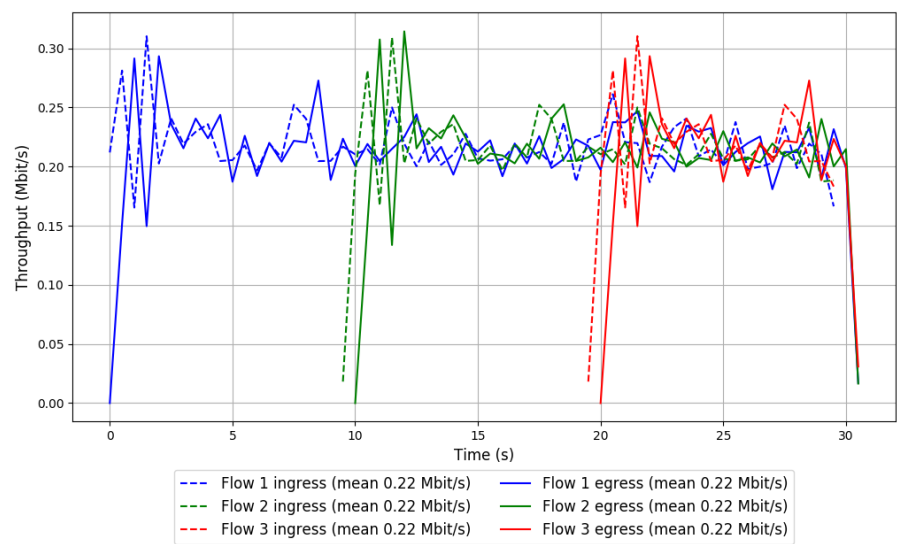


Run 9: Statistics of SReAM

Start at: 2018-06-19 14:10:14
End at: 2018-06-19 14:10:44
Local clock offset: 0.005 ms
Remote clock offset: -0.356 ms

Below is generated by plot.py at 2018-06-19 16:39:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.445 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.470 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 134.772 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.363 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-06-19 14:34:37

End at: 2018-06-19 14:35:07

Local clock offset: 0.204 ms

Remote clock offset: 0.011 ms

Below is generated by plot.py at 2018-06-19 16:39:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 136.420 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.446 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

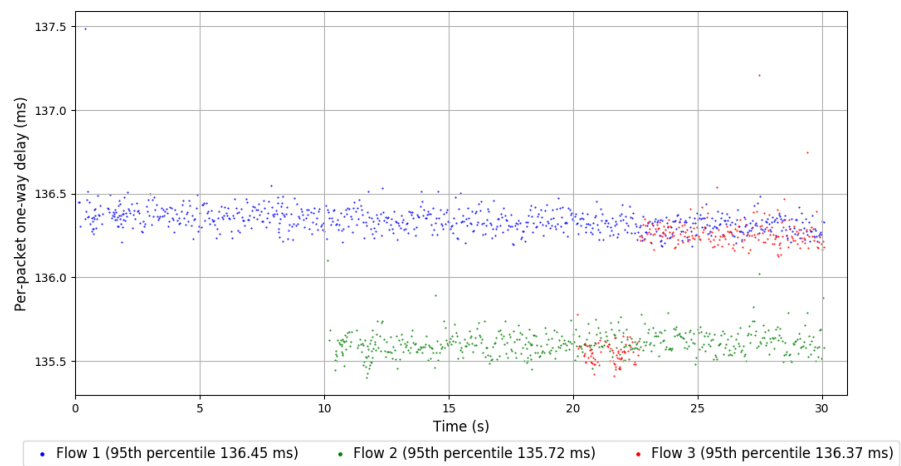
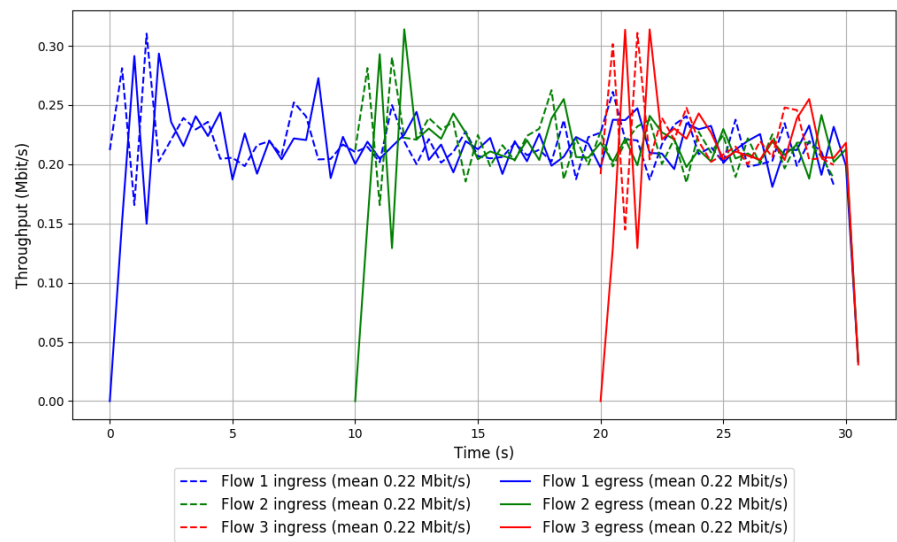
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.373 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-06-19 10:58:59

End at: 2018-06-19 10:59:29

Local clock offset: 0.221 ms

Remote clock offset: 0.334 ms

Below is generated by plot.py at 2018-06-19 16:39:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 136.998 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 137.017 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 136.998 ms

Loss rate: 0.00%

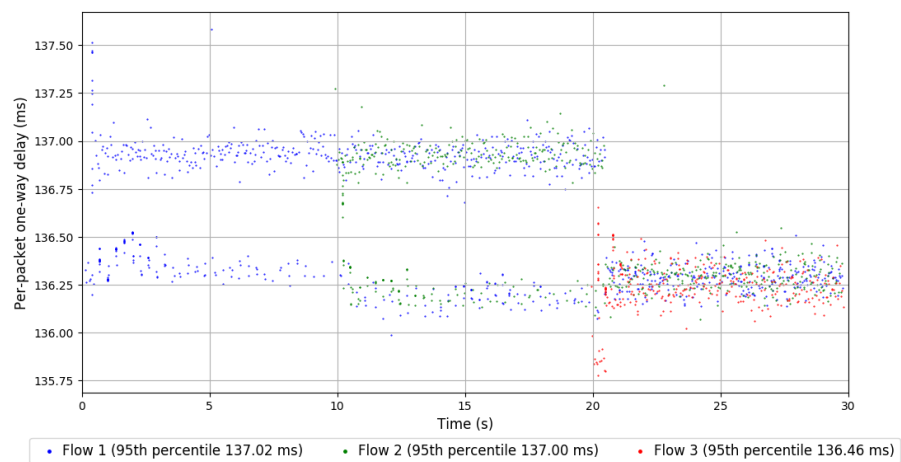
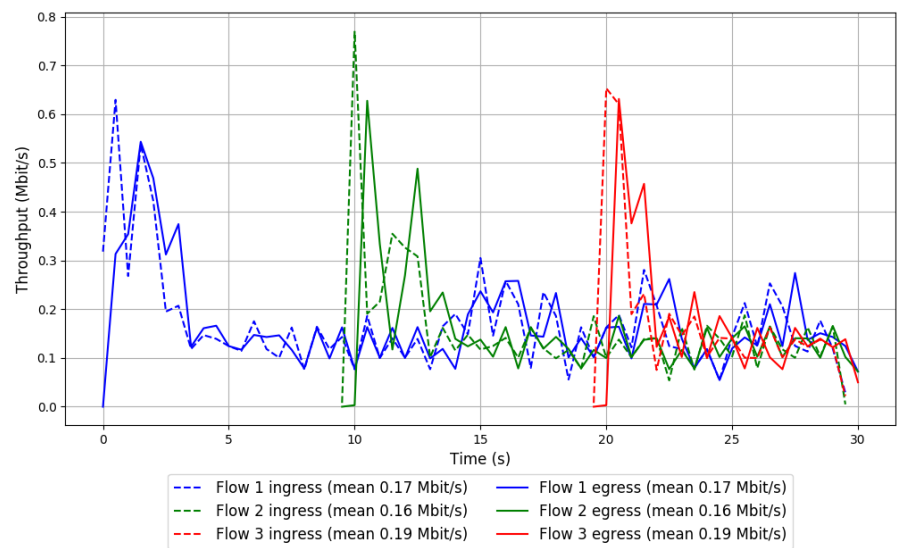
-- Flow 3:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 136.458 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-06-19 11:24:00

End at: 2018-06-19 11:24:30

Local clock offset: 0.127 ms

Remote clock offset: 0.176 ms

Below is generated by plot.py at 2018-06-19 16:39:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.38 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 137.051 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.17 Mbit/s

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

Loss rate: 0.00%

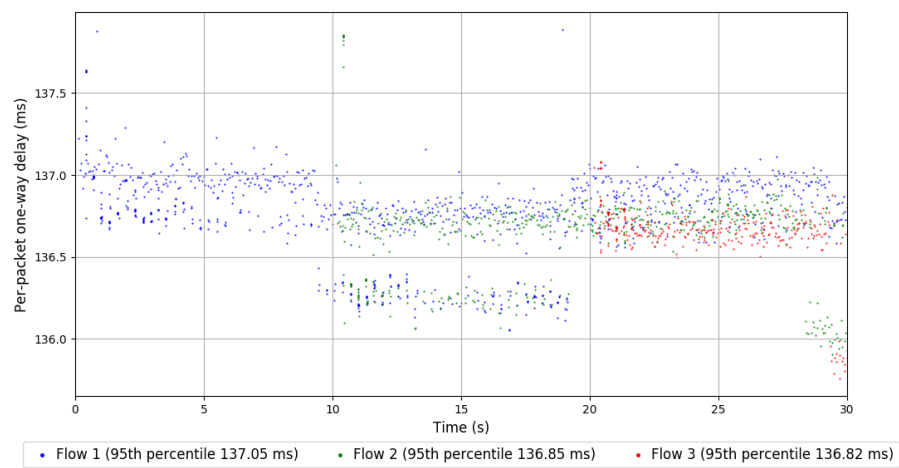
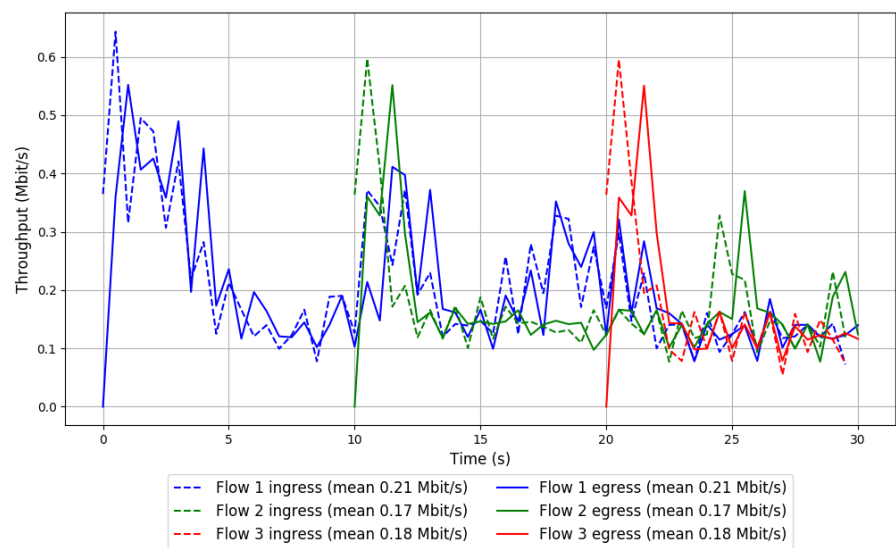
-- Flow 3:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 136.822 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

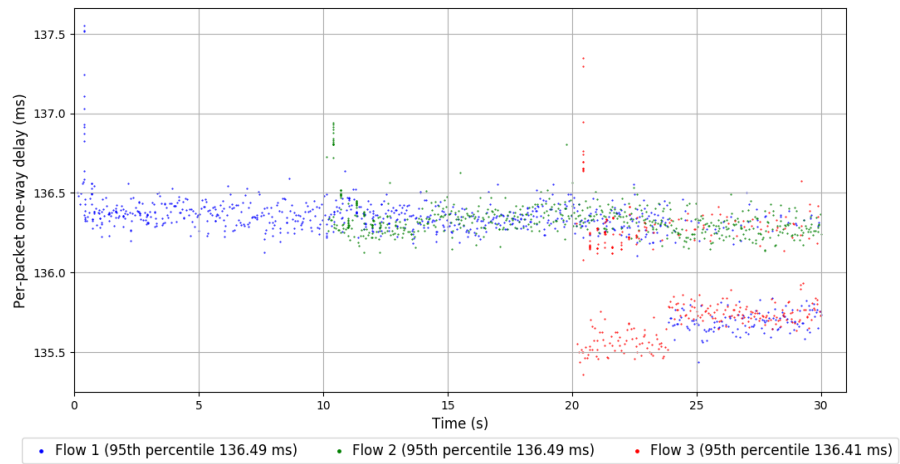
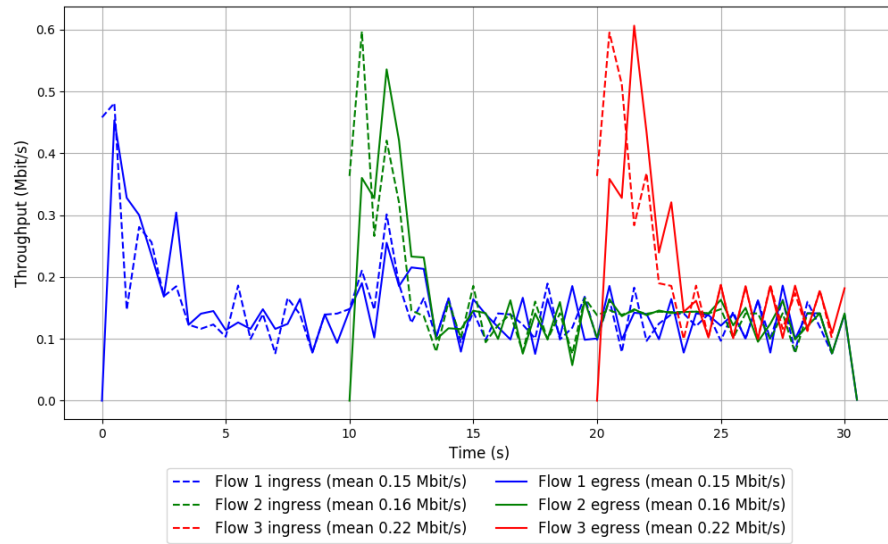


Run 3: Statistics of Sprout

Start at: 2018-06-19 11:48:56
End at: 2018-06-19 11:49:26
Local clock offset: 0.313 ms
Remote clock offset: -0.055 ms

```
# Below is generated by plot.py at 2018-06-19 16:39:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 136.490 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 136.493 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 136.490 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.411 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

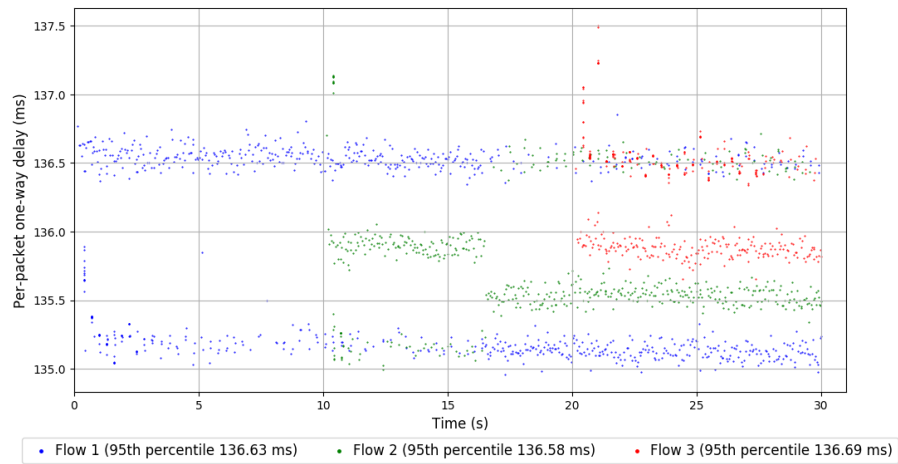
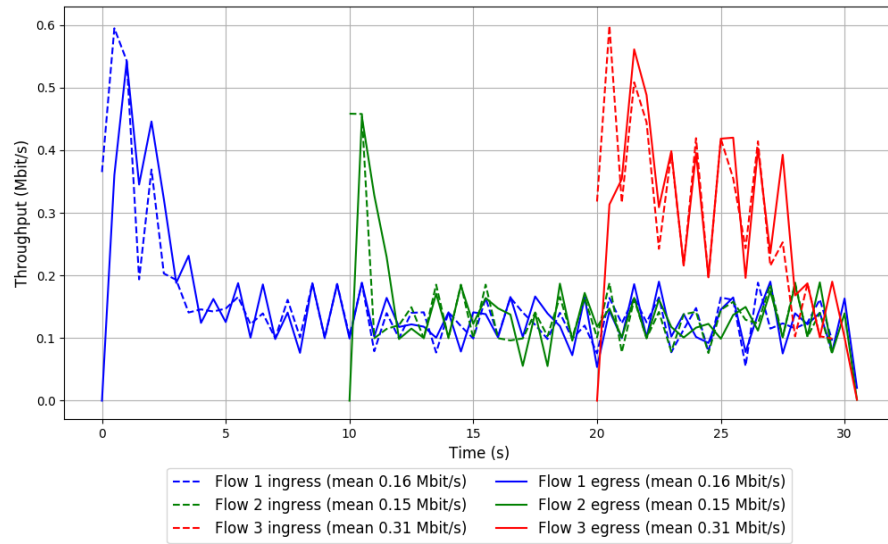


Run 4: Statistics of Sprout

Start at: 2018-06-19 12:13:53
End at: 2018-06-19 12:14:23
Local clock offset: -0.09 ms
Remote clock offset: -0.122 ms

```
# Below is generated by plot.py at 2018-06-19 16:39:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 136.626 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 136.633 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 136.582 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 136.690 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-06-19 12:38:52

End at: 2018-06-19 12:39:22

Local clock offset: 0.126 ms

Remote clock offset: 0.374 ms

Below is generated by plot.py at 2018-06-19 16:39:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.33 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 136.786 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.18 Mbit/s

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

Loss rate: 0.00%

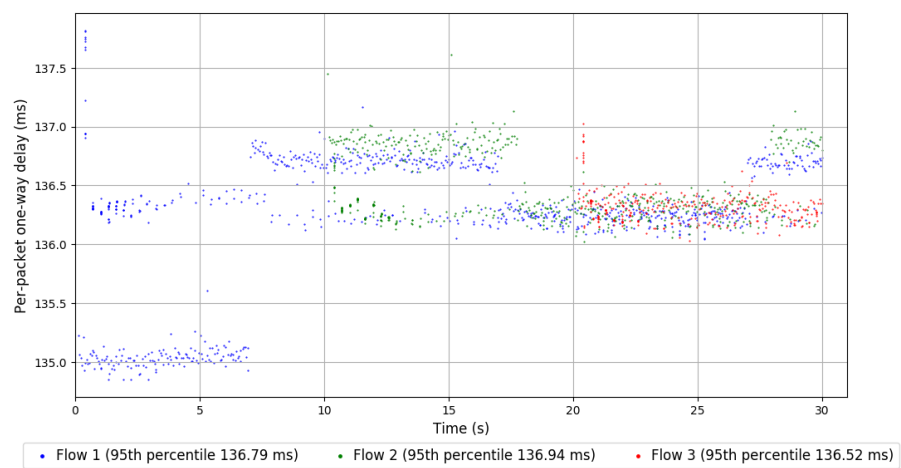
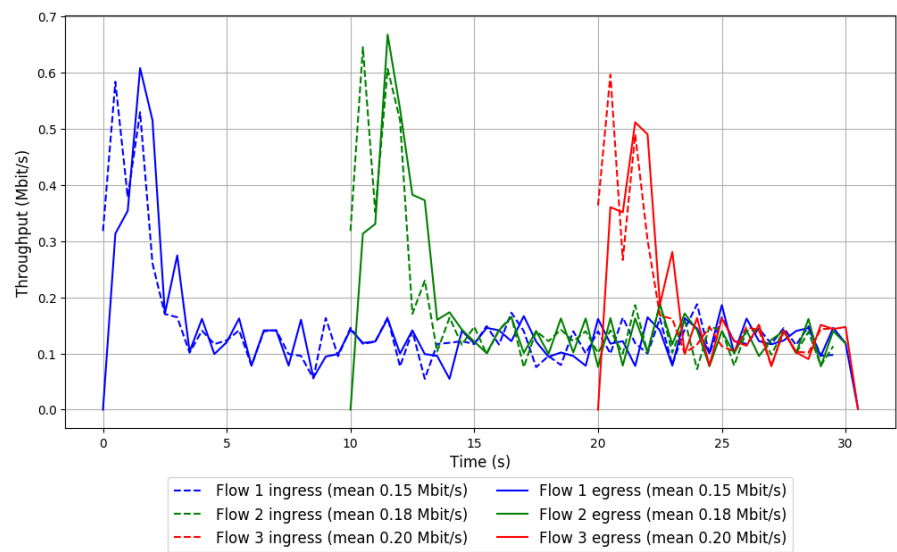
-- Flow 3:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 136.519 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-06-19 13:03:48

End at: 2018-06-19 13:04:18

Local clock offset: 0.138 ms

Remote clock offset: 0.136 ms

Below is generated by plot.py at 2018-06-19 16:39:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 136.496 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 136.457 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 136.492 ms

Loss rate: 0.00%

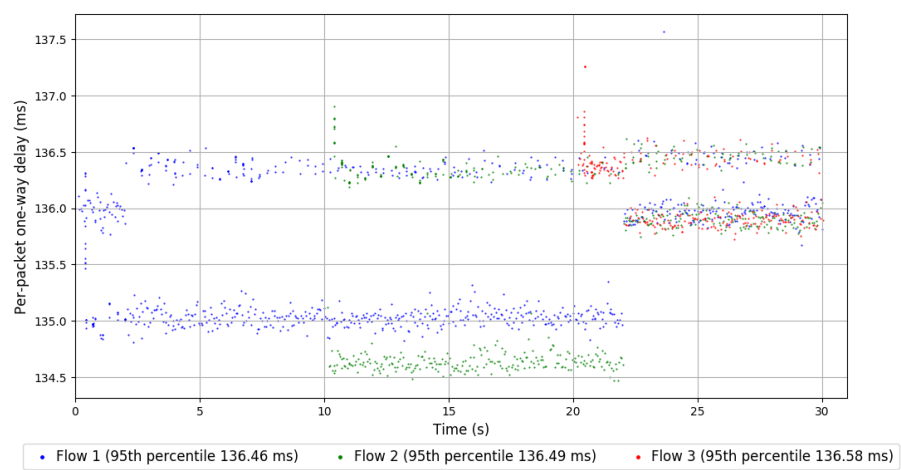
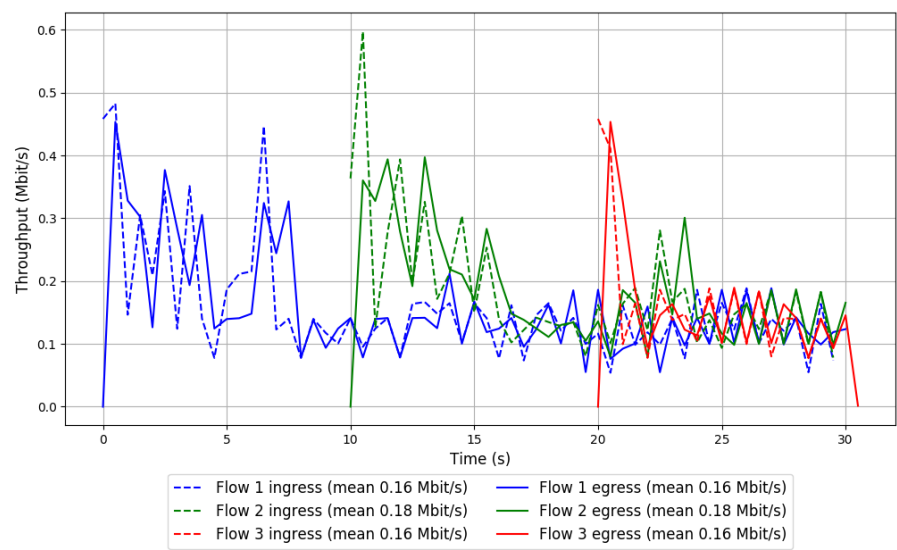
-- Flow 3:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 136.580 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

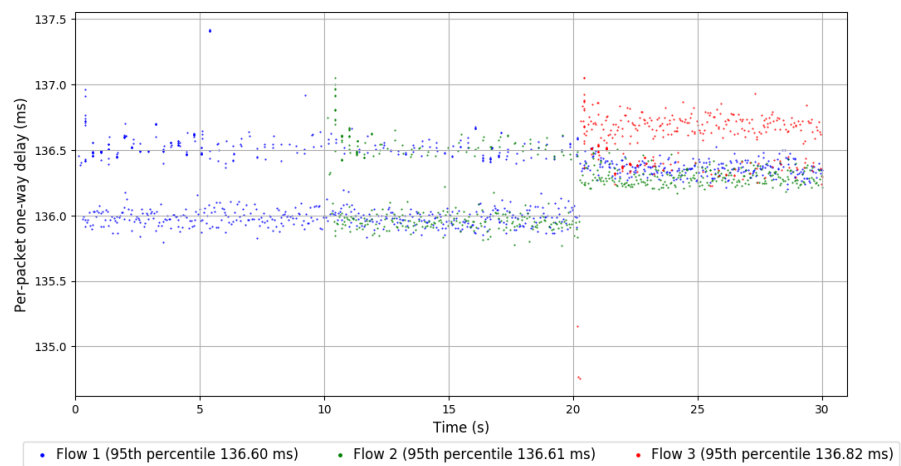
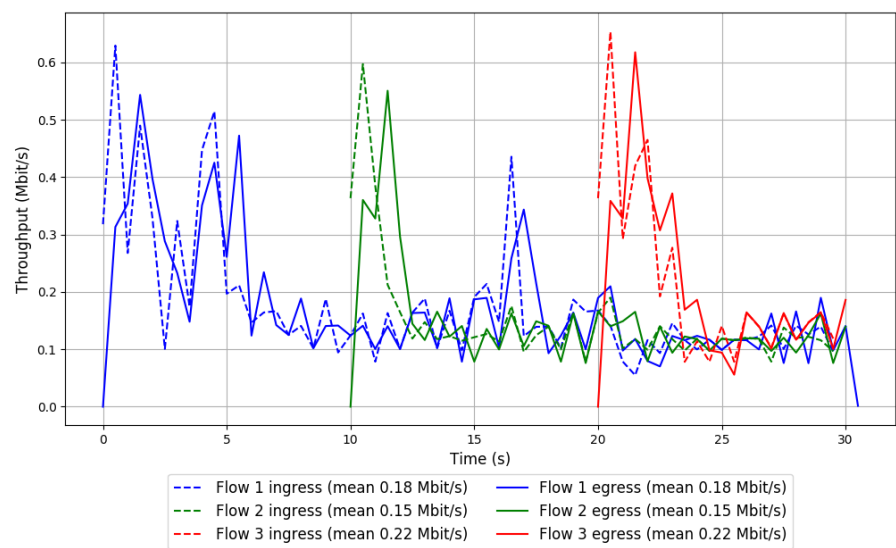


Run 7: Statistics of Sprout

Start at: 2018-06-19 13:28:29
End at: 2018-06-19 13:28:59
Local clock offset: 0.071 ms
Remote clock offset: 0.033 ms

```
# Below is generated by plot.py at 2018-06-19 16:39:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 136.729 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 136.602 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 136.608 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.820 ms
Loss rate: 0.00%
```

Run 7: Report of Sprout — Data Link

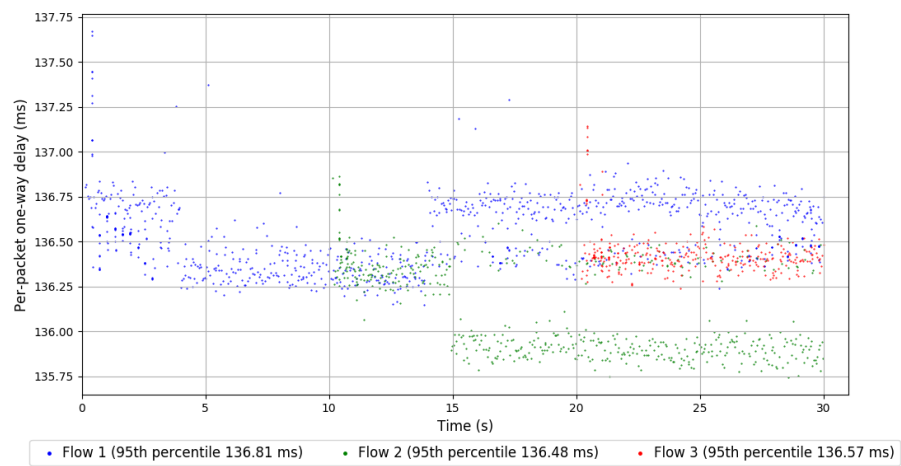
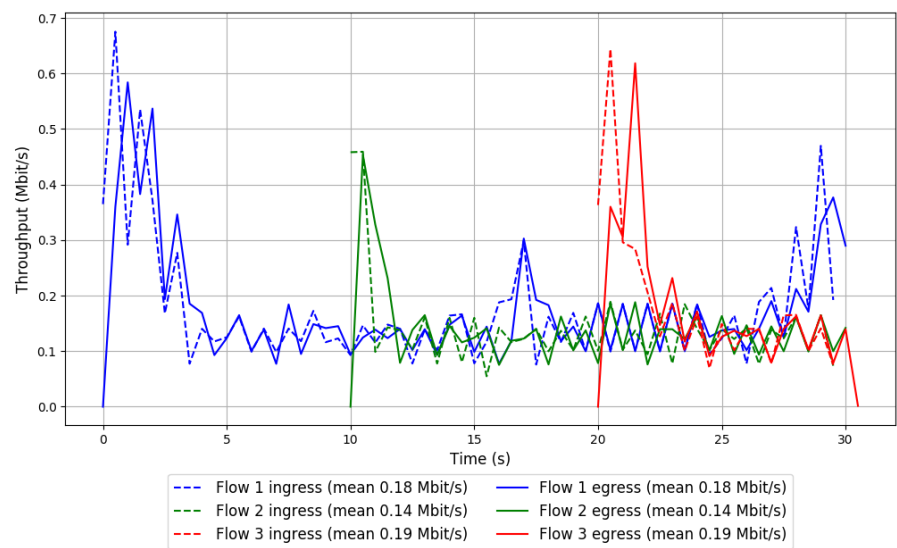


Run 8: Statistics of Sprout

Start at: 2018-06-19 13:53:15
End at: 2018-06-19 13:53:45
Local clock offset: -0.154 ms
Remote clock offset: -0.376 ms

Below is generated by plot.py at 2018-06-19 16:39:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 136.782 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 136.809 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 136.484 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 136.570 ms
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

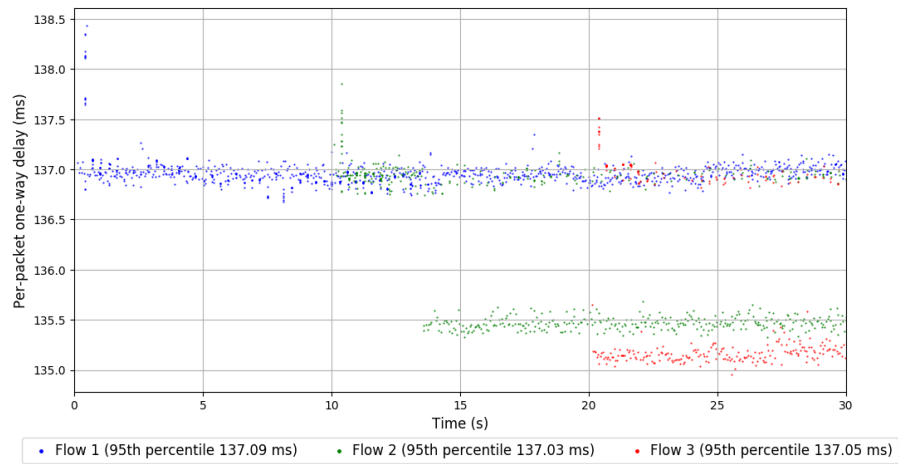
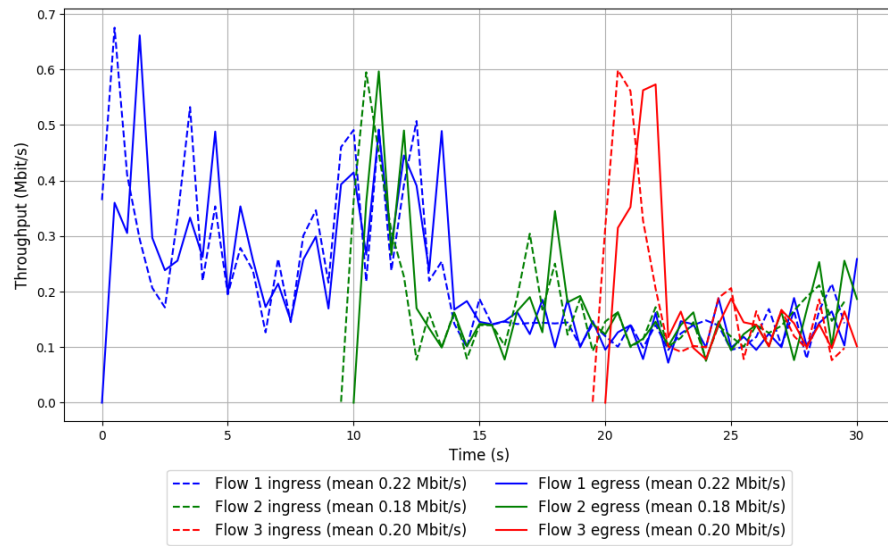


Run 9: Statistics of Sprout

Start at: 2018-06-19 14:18:15
End at: 2018-06-19 14:18:45
Local clock offset: -0.363 ms
Remote clock offset: 0.093 ms

Below is generated by plot.py at 2018-06-19 16:39:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 137.075 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.087 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 137.025 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 137.050 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

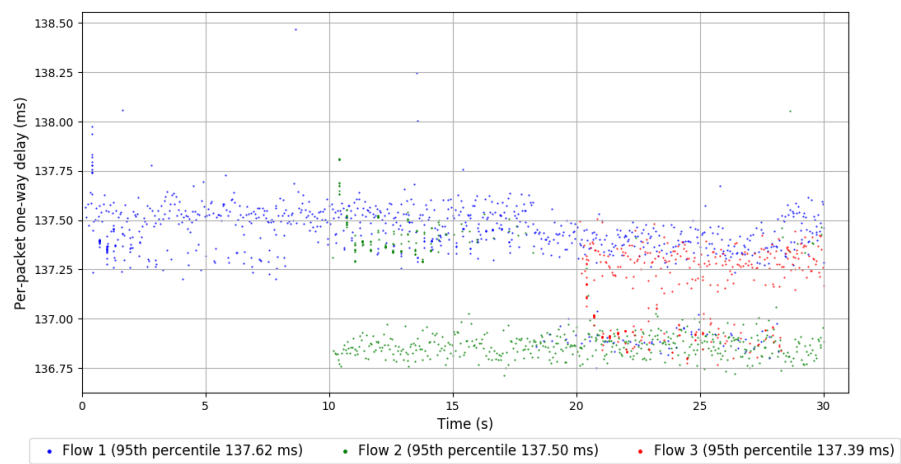
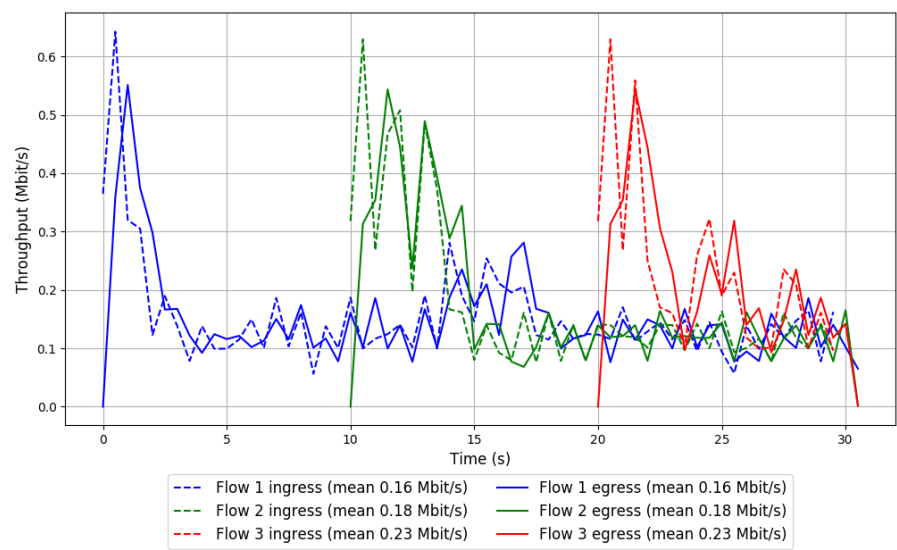


Run 10: Statistics of Sprout

Start at: 2018-06-19 14:43:01
End at: 2018-06-19 14:43:31
Local clock offset: -0.433 ms
Remote clock offset: 0.412 ms

Below is generated by plot.py at 2018-06-19 16:39:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 137.586 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 137.615 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 137.502 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 137.386 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

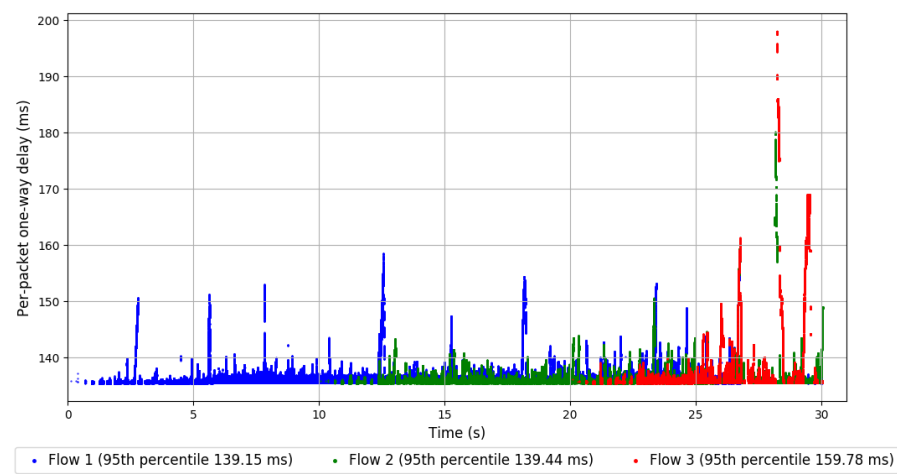
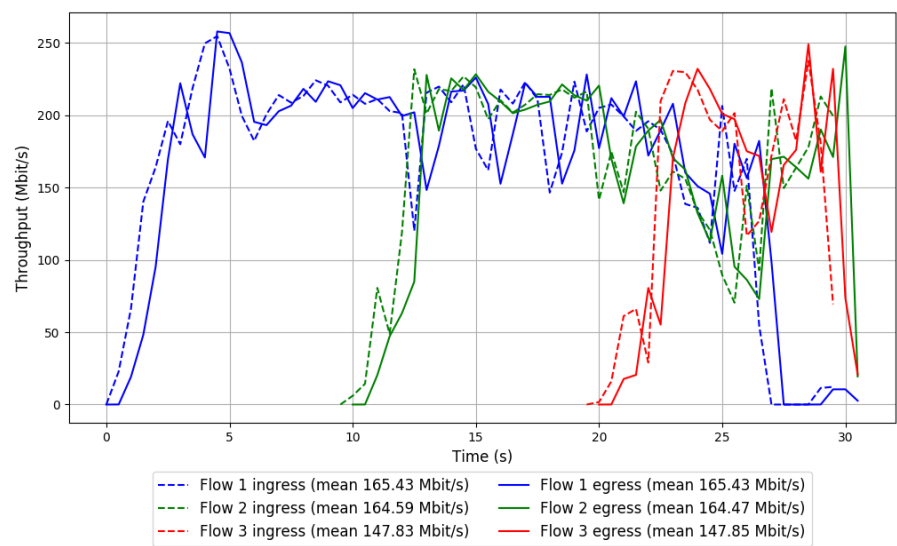


Run 1: Statistics of TaoVA-100x

Start at: 2018-06-19 11:00:14
End at: 2018-06-19 11:00:44
Local clock offset: 0.399 ms
Remote clock offset: -0.059 ms

Below is generated by plot.py at 2018-06-19 16:44:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 324.44 Mbit/s
95th percentile per-packet one-way delay: 140.736 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 165.43 Mbit/s
95th percentile per-packet one-way delay: 139.151 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 164.47 Mbit/s
95th percentile per-packet one-way delay: 139.435 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 147.85 Mbit/s
95th percentile per-packet one-way delay: 159.784 ms
Loss rate: 0.00%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-06-19 11:25:15

End at: 2018-06-19 11:25:45

Local clock offset: 0.19 ms

Remote clock offset: 0.174 ms

Below is generated by plot.py at 2018-06-19 16:44:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.35 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 13.10 Mbit/s

95th percentile per-packet one-way delay: 136.604 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 175.67 Mbit/s

95th percentile per-packet one-way delay: 136.939 ms

Loss rate: 0.00%

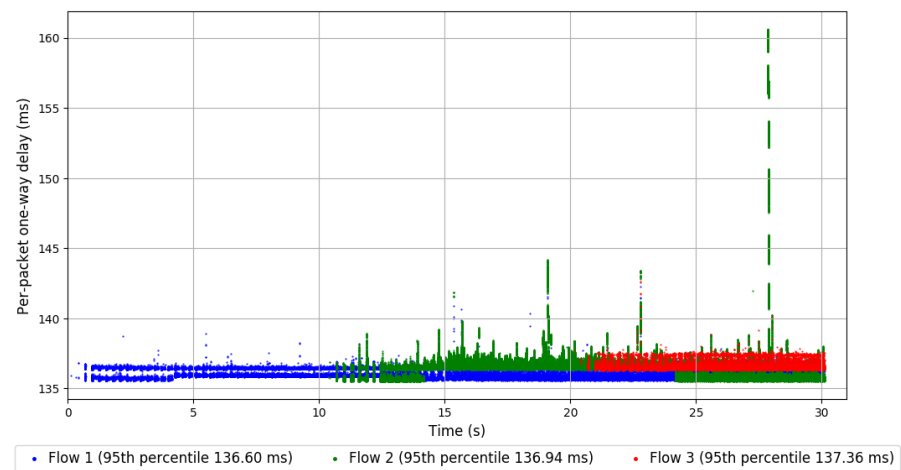
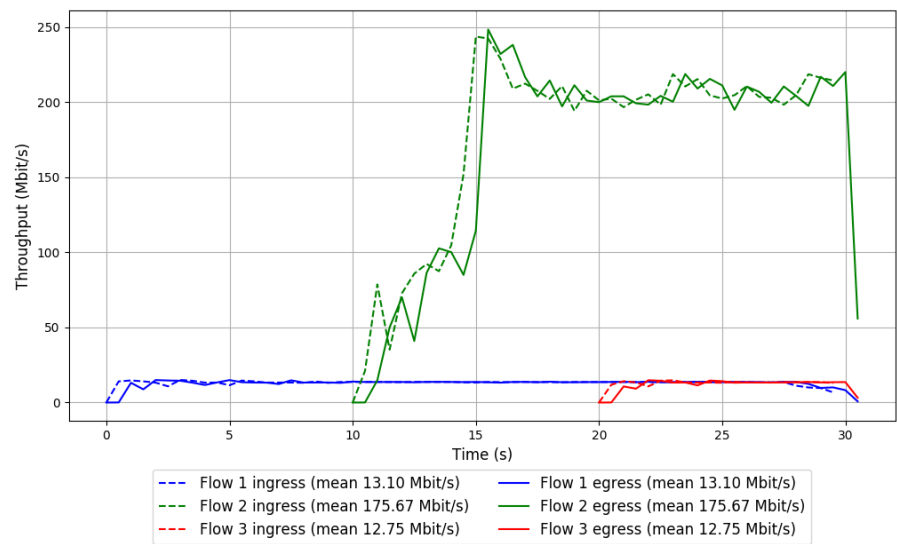
-- Flow 3:

Average throughput: 12.75 Mbit/s

95th percentile per-packet one-way delay: 137.357 ms

Loss rate: 0.00%

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

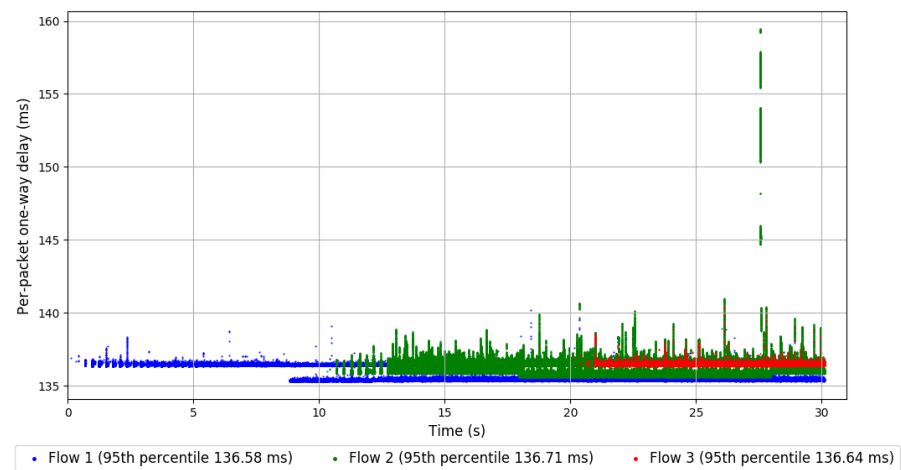
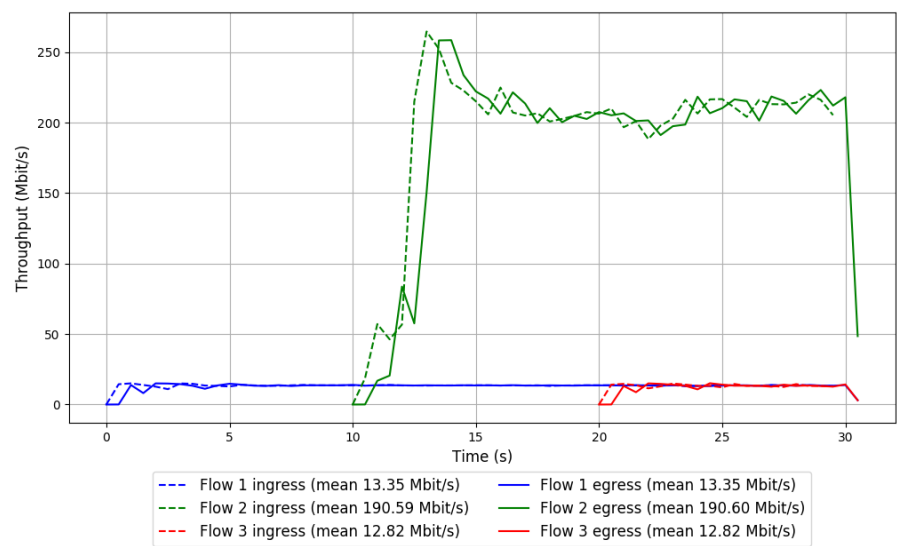


Run 3: Statistics of TaoVA-100x

Start at: 2018-06-19 11:50:11
End at: 2018-06-19 11:50:41
Local clock offset: -0.008 ms
Remote clock offset: -0.061 ms

Below is generated by plot.py at 2018-06-19 16:44:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 144.61 Mbit/s
95th percentile per-packet one-way delay: 136.691 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.35 Mbit/s
95th percentile per-packet one-way delay: 136.580 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 190.60 Mbit/s
95th percentile per-packet one-way delay: 136.708 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.82 Mbit/s
95th percentile per-packet one-way delay: 136.637 ms
Loss rate: 0.00%

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

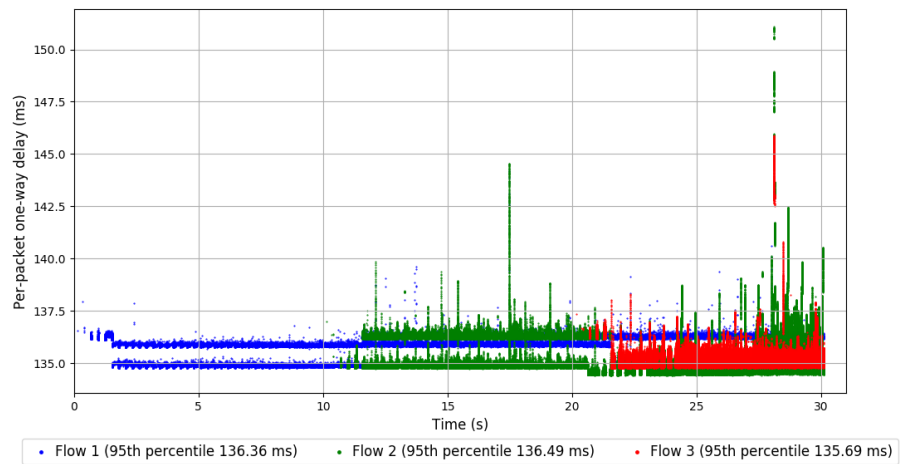
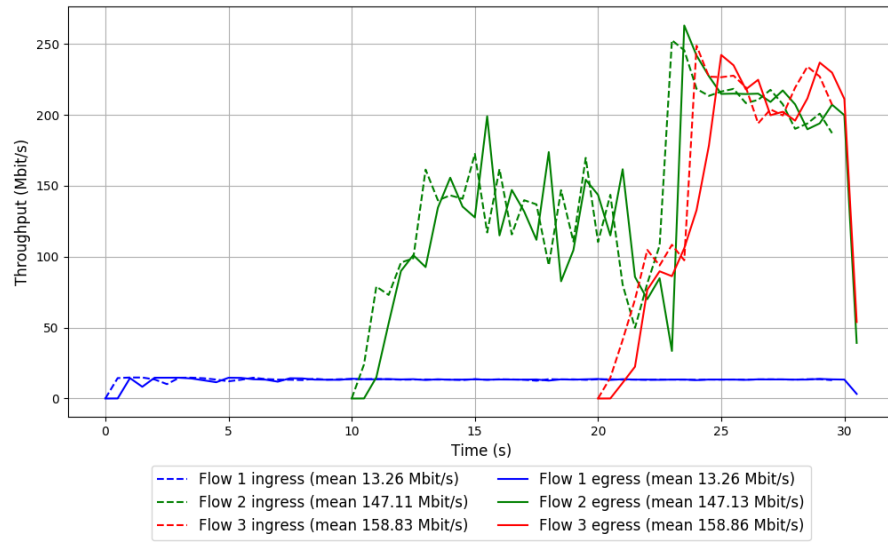


Run 4: Statistics of TaoVA-100x

Start at: 2018-06-19 12:15:08
End at: 2018-06-19 12:15:38
Local clock offset: 0.056 ms
Remote clock offset: -0.065 ms

Below is generated by plot.py at 2018-06-19 16:44:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 163.97 Mbit/s
95th percentile per-packet one-way delay: 136.389 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.26 Mbit/s
95th percentile per-packet one-way delay: 136.356 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 147.13 Mbit/s
95th percentile per-packet one-way delay: 136.486 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 158.86 Mbit/s
95th percentile per-packet one-way delay: 135.694 ms
Loss rate: 0.00%

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

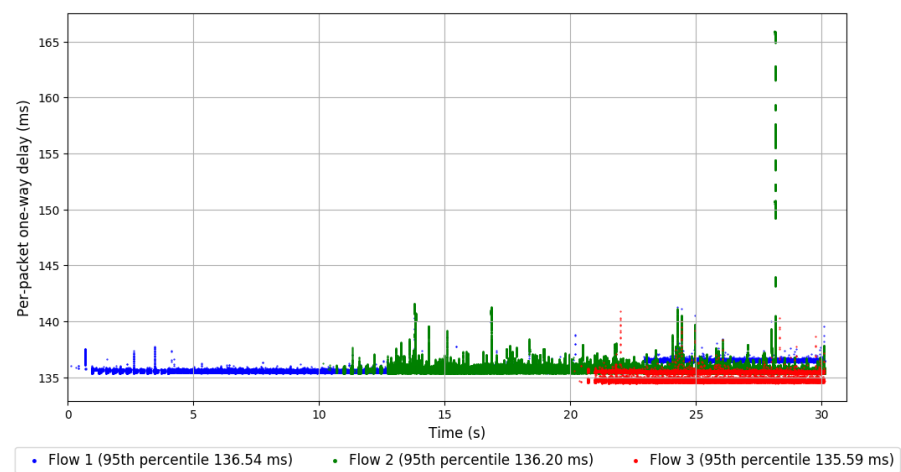
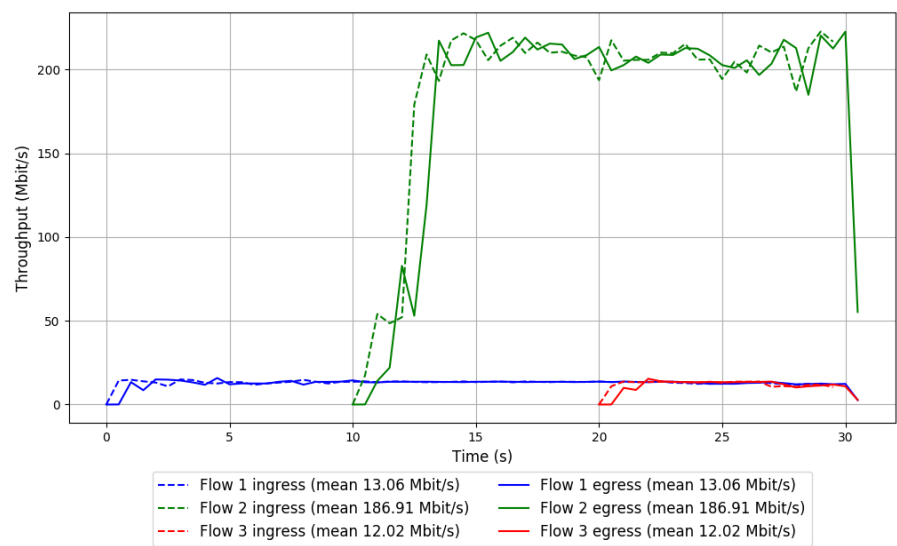


Run 5: Statistics of TaoVA-100x

Start at: 2018-06-19 12:40:07
End at: 2018-06-19 12:40:37
Local clock offset: -0.059 ms
Remote clock offset: -0.347 ms

Below is generated by plot.py at 2018-06-19 16:44:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 141.51 Mbit/s
95th percentile per-packet one-way delay: 136.279 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.06 Mbit/s
95th percentile per-packet one-way delay: 136.537 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 186.91 Mbit/s
95th percentile per-packet one-way delay: 136.203 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.02 Mbit/s
95th percentile per-packet one-way delay: 135.595 ms
Loss rate: 0.00%

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

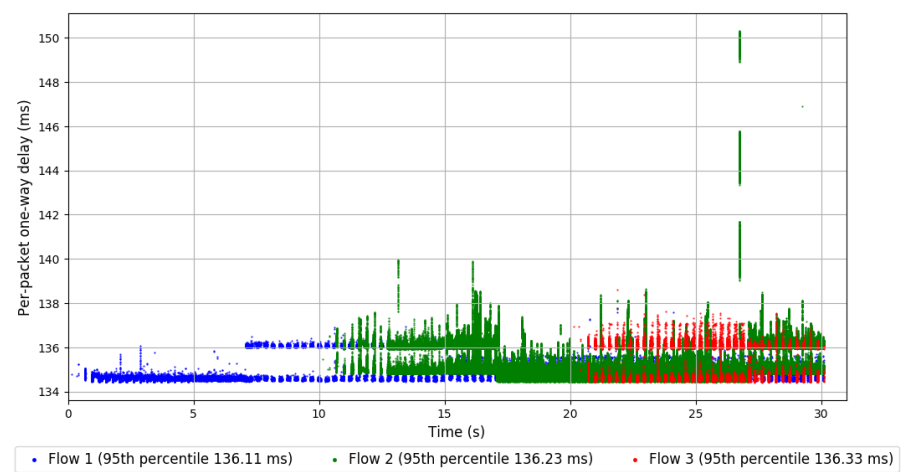
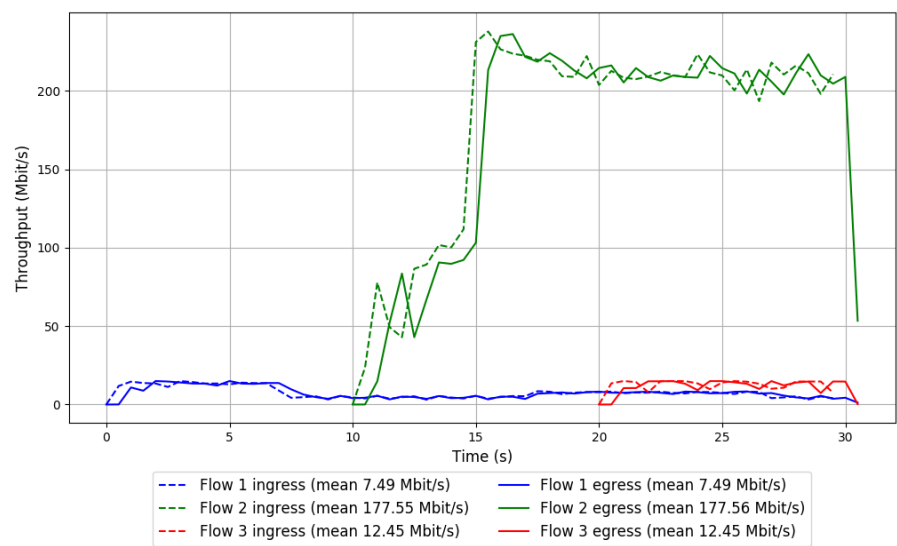


Run 6: Statistics of TaoVA-100x

Start at: 2018-06-19 13:05:03
End at: 2018-06-19 13:05:33
Local clock offset: 0.01 ms
Remote clock offset: -0.221 ms

Below is generated by plot.py at 2018-06-19 16:44:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 129.89 Mbit/s
95th percentile per-packet one-way delay: 136.231 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.49 Mbit/s
95th percentile per-packet one-way delay: 136.106 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 177.56 Mbit/s
95th percentile per-packet one-way delay: 136.234 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.45 Mbit/s
95th percentile per-packet one-way delay: 136.330 ms
Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-06-19 13:29:44

End at: 2018-06-19 13:30:14

Local clock offset: -0.144 ms

Remote clock offset: 0.044 ms

Below is generated by plot.py at 2018-06-19 16:44:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 145.01 Mbit/s

95th percentile per-packet one-way delay: 137.058 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 13.37 Mbit/s

95th percentile per-packet one-way delay: 136.592 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 191.24 Mbit/s

95th percentile per-packet one-way delay: 137.134 ms

Loss rate: 0.01%

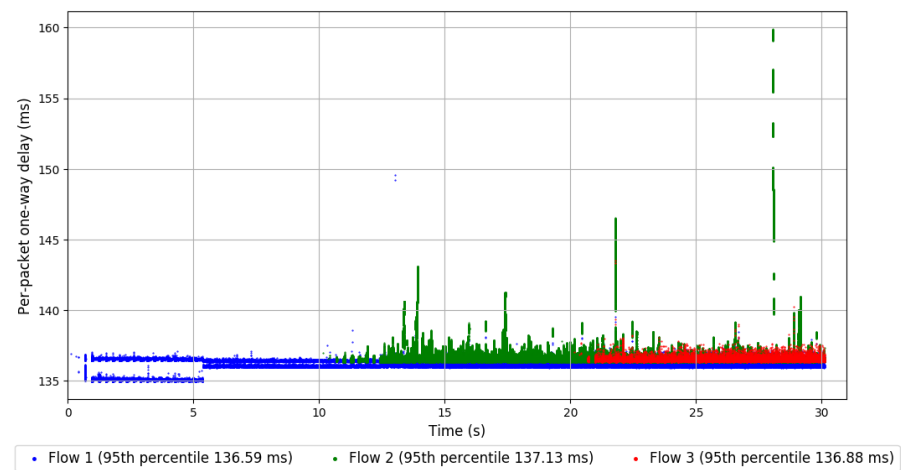
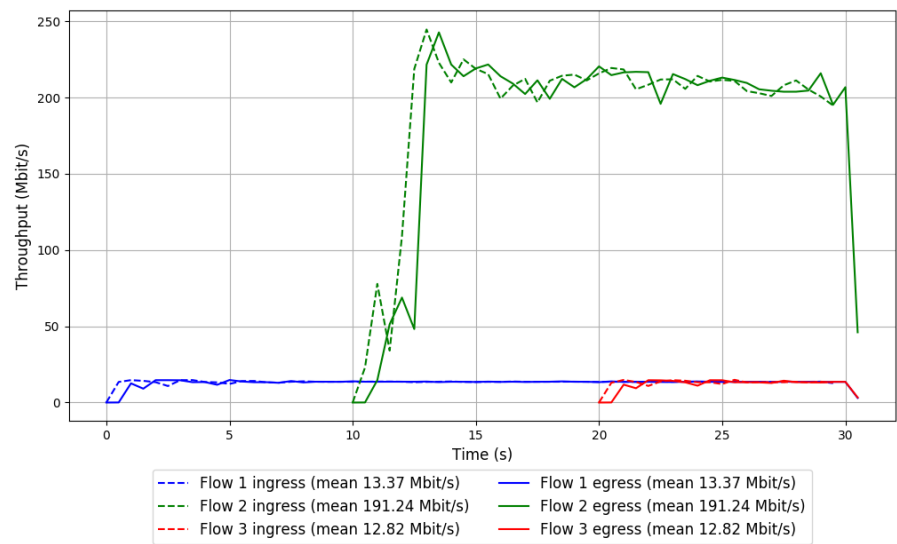
-- Flow 3:

Average throughput: 12.82 Mbit/s

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

Loss rate: 0.01%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-06-19 13:54:30

End at: 2018-06-19 13:55:00

Local clock offset: 0.268 ms

Remote clock offset: 0.002 ms

Below is generated by plot.py at 2018-06-19 16:49:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 355.76 Mbit/s

95th percentile per-packet one-way delay: 138.467 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 179.05 Mbit/s

95th percentile per-packet one-way delay: 137.457 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 188.78 Mbit/s

95th percentile per-packet one-way delay: 138.853 ms

Loss rate: 0.00%

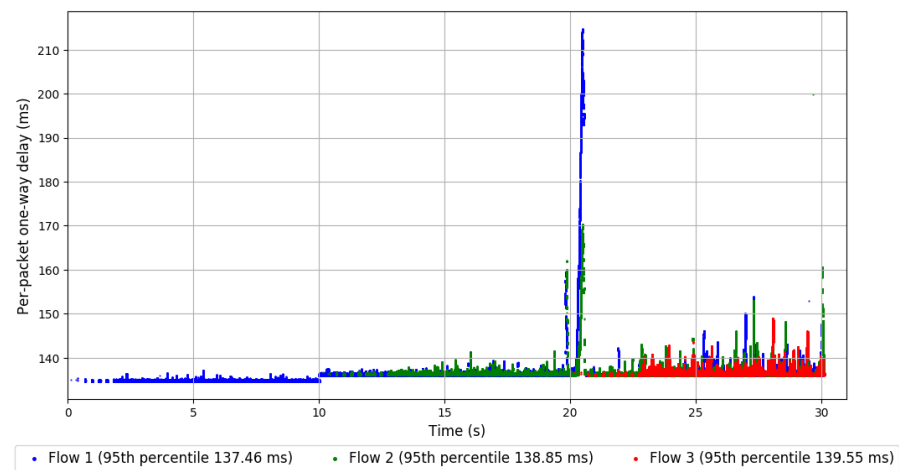
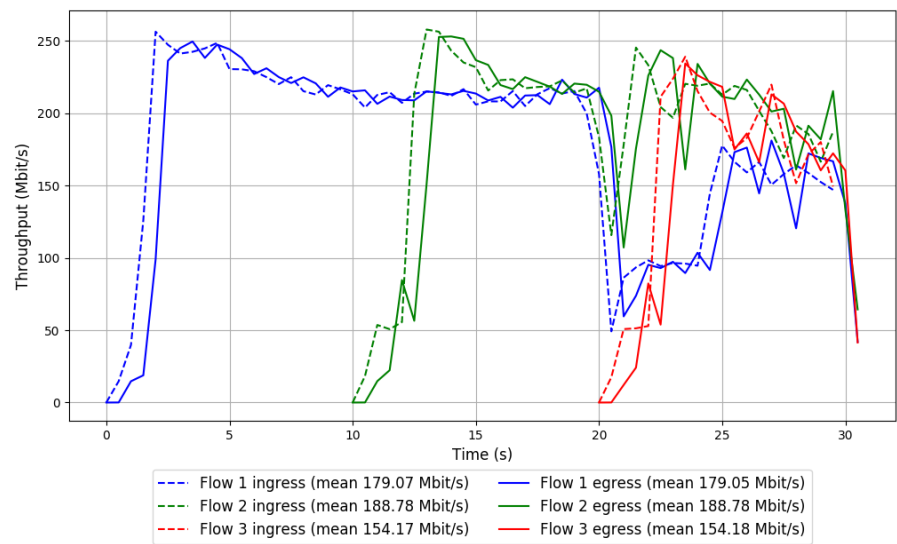
-- Flow 3:

Average throughput: 154.18 Mbit/s

95th percentile per-packet one-way delay: 139.546 ms

Loss rate: 0.00%

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

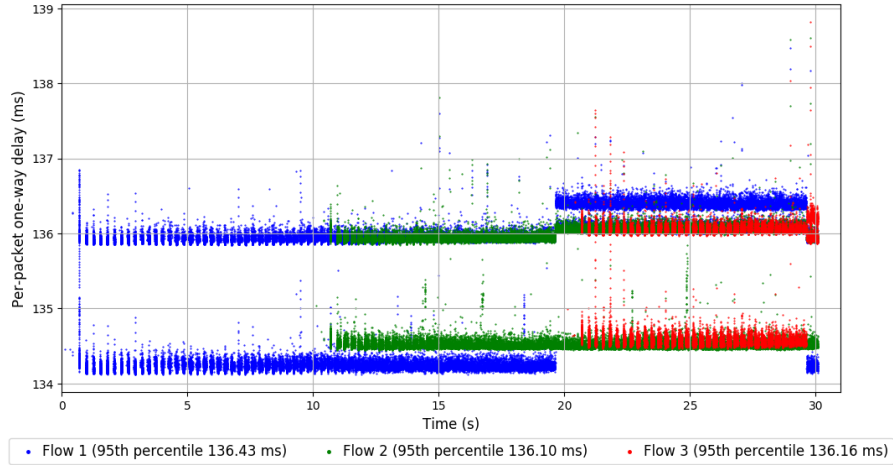
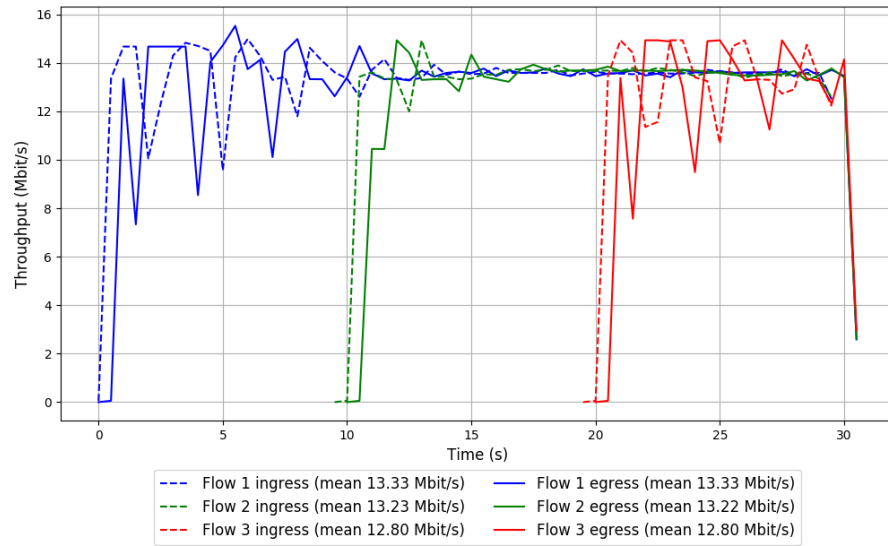


Run 9: Statistics of TaoVA-100x

Start at: 2018-06-19 14:19:30
End at: 2018-06-19 14:20:00
Local clock offset: -0.075 ms
Remote clock offset: -0.334 ms

Below is generated by plot.py at 2018-06-19 16:49:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 26.40 Mbit/s
95th percentile per-packet one-way delay: 136.387 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.33 Mbit/s
95th percentile per-packet one-way delay: 136.426 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.22 Mbit/s
95th percentile per-packet one-way delay: 136.105 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.80 Mbit/s
95th percentile per-packet one-way delay: 136.157 ms
Loss rate: 0.00%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-06-19 14:44:16

End at: 2018-06-19 14:44:46

Local clock offset: 0.078 ms

Remote clock offset: 0.058 ms

Below is generated by plot.py at 2018-06-19 16:50:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 346.12 Mbit/s

95th percentile per-packet one-way delay: 139.986 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 184.31 Mbit/s

95th percentile per-packet one-way delay: 138.096 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 177.19 Mbit/s

95th percentile per-packet one-way delay: 138.579 ms

Loss rate: 0.00%

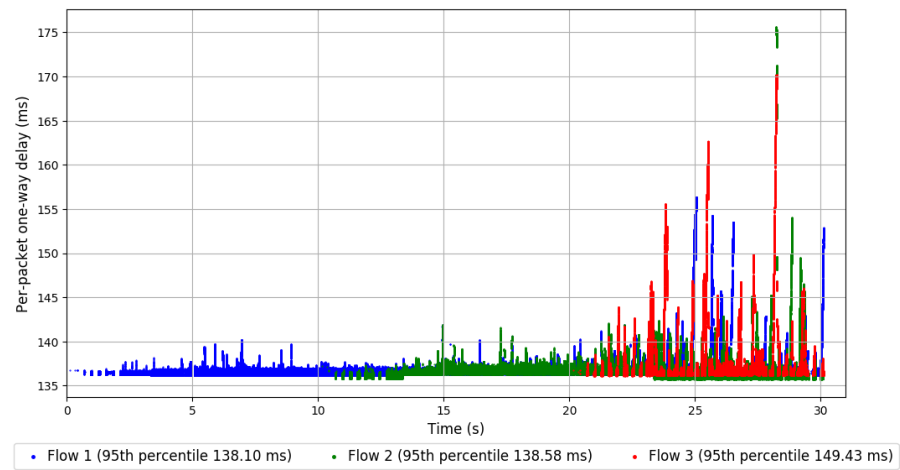
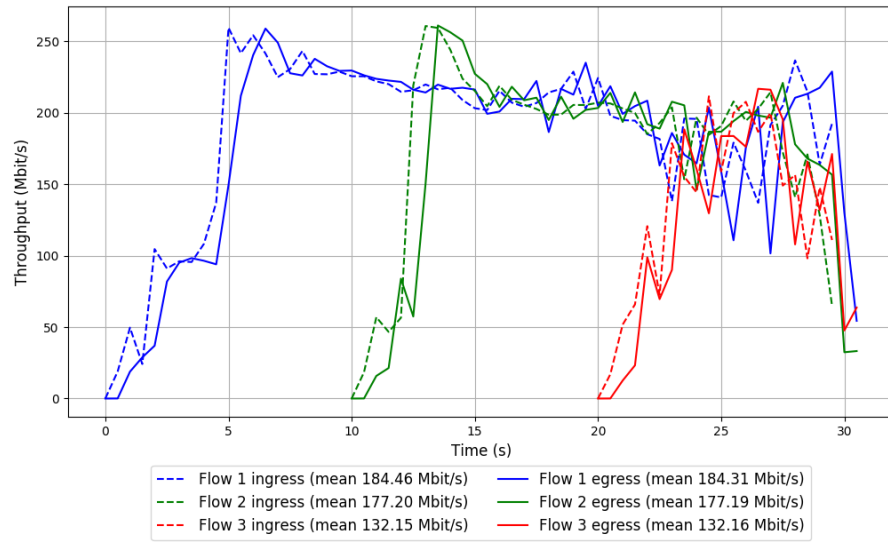
-- Flow 3:

Average throughput: 132.16 Mbit/s

95th percentile per-packet one-way delay: 149.433 ms

Loss rate: 0.00%

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

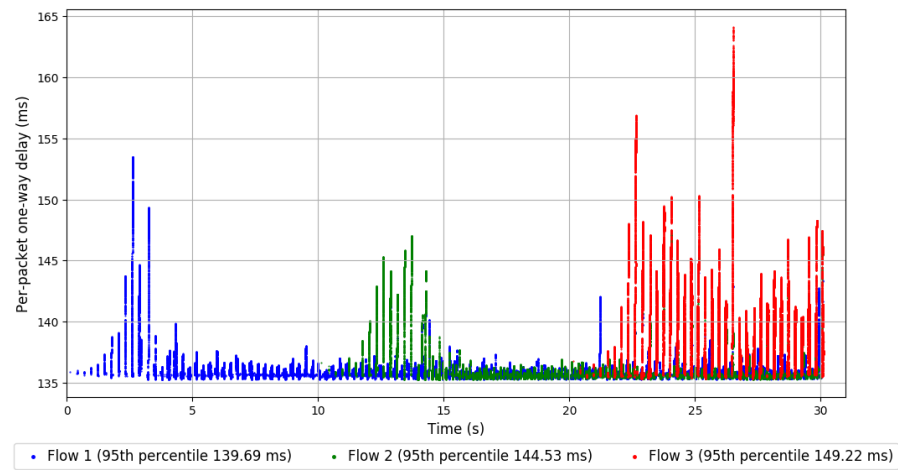
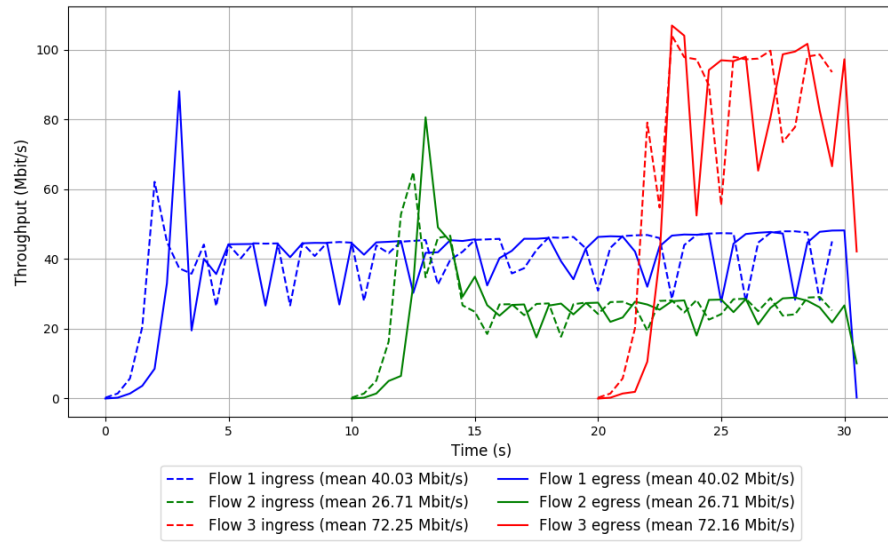


Run 1: Statistics of TCP Vegas

Start at: 2018-06-19 10:46:13
End at: 2018-06-19 10:46:43
Local clock offset: 0.205 ms
Remote clock offset: -0.442 ms

Below is generated by plot.py at 2018-06-19 16:50:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.79 Mbit/s
95th percentile per-packet one-way delay: 145.686 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 40.02 Mbit/s
95th percentile per-packet one-way delay: 139.685 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 26.71 Mbit/s
95th percentile per-packet one-way delay: 144.534 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 72.16 Mbit/s
95th percentile per-packet one-way delay: 149.223 ms
Loss rate: 0.12%

Run 1: Report of TCP Vegas — Data Link

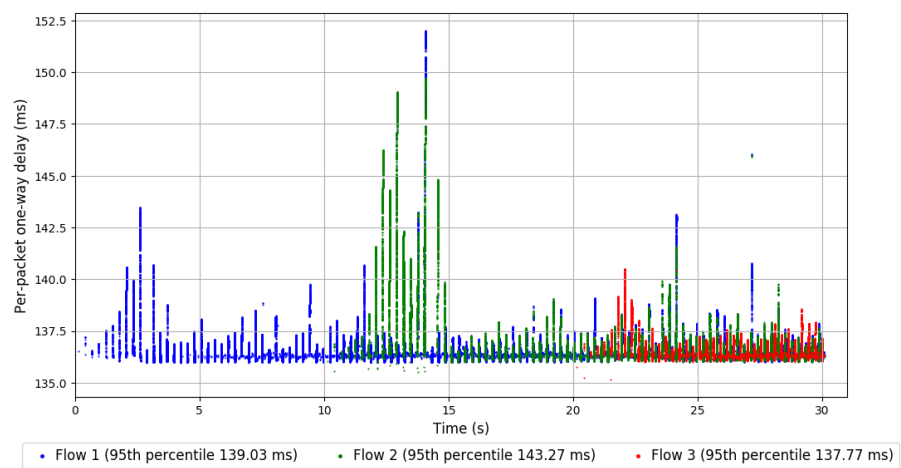
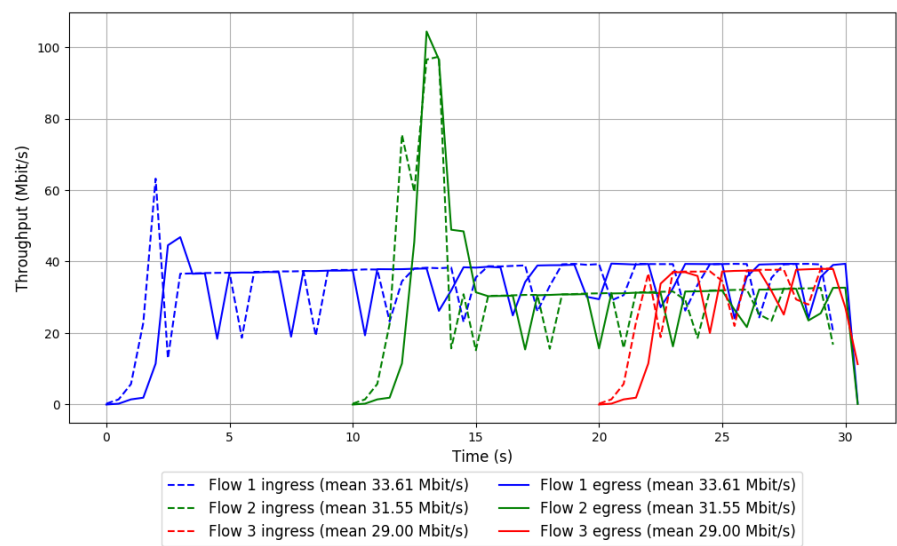


Run 2: Statistics of TCP Vegas

Start at: 2018-06-19 11:11:14
End at: 2018-06-19 11:11:44
Local clock offset: 0.19 ms
Remote clock offset: -0.262 ms

Below is generated by plot.py at 2018-06-19 16:50:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.19 Mbit/s
95th percentile per-packet one-way delay: 140.749 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 33.61 Mbit/s
95th percentile per-packet one-way delay: 139.028 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 31.55 Mbit/s
95th percentile per-packet one-way delay: 143.268 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.00 Mbit/s
95th percentile per-packet one-way delay: 137.766 ms
Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link

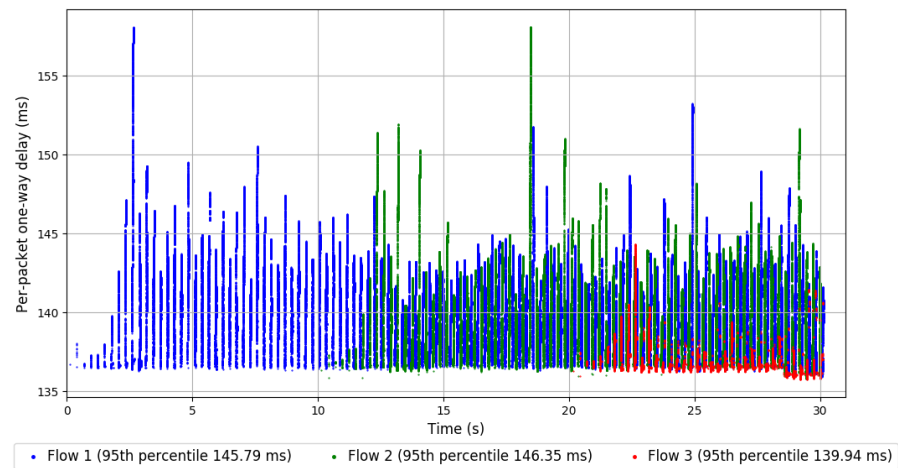
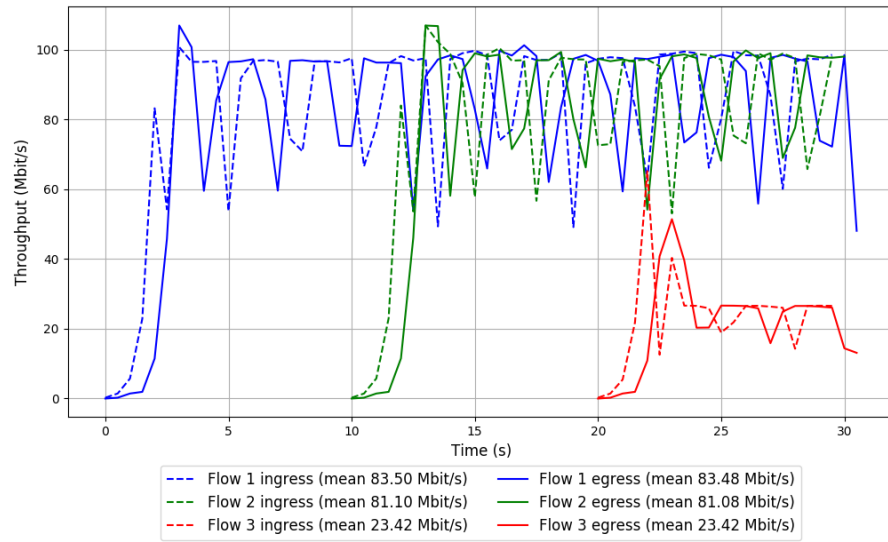


Run 3: Statistics of TCP Vegas

Start at: 2018-06-19 11:36:01
End at: 2018-06-19 11:36:31
Local clock offset: -0.095 ms
Remote clock offset: -0.189 ms

Below is generated by plot.py at 2018-06-19 16:50:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 144.95 Mbit/s
95th percentile per-packet one-way delay: 145.755 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 83.48 Mbit/s
95th percentile per-packet one-way delay: 145.794 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 81.08 Mbit/s
95th percentile per-packet one-way delay: 146.349 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 23.42 Mbit/s
95th percentile per-packet one-way delay: 139.935 ms
Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link

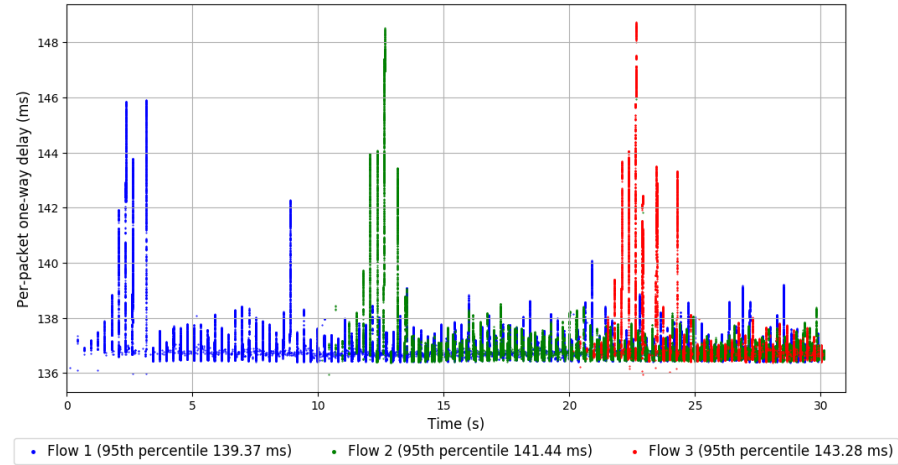
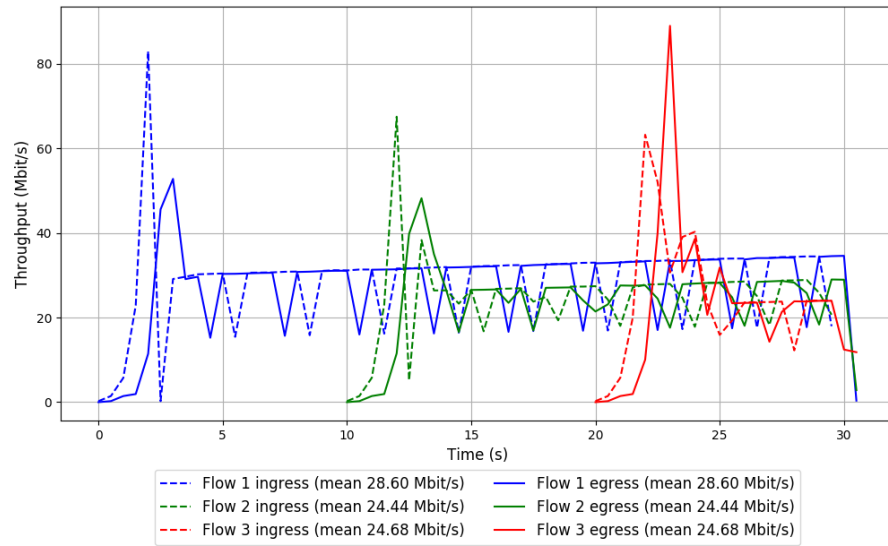


Run 4: Statistics of TCP Vegas

Start at: 2018-06-19 12:00:53
End at: 2018-06-19 12:01:23
Local clock offset: -0.11 ms
Remote clock offset: -0.096 ms

Below is generated by plot.py at 2018-06-19 16:50:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 53.05 Mbit/s
95th percentile per-packet one-way delay: 141.256 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.60 Mbit/s
95th percentile per-packet one-way delay: 139.369 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.44 Mbit/s
95th percentile per-packet one-way delay: 141.441 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.68 Mbit/s
95th percentile per-packet one-way delay: 143.277 ms
Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-06-19 12:25:59

End at: 2018-06-19 12:26:29

Local clock offset: -0.261 ms

Remote clock offset: 0.024 ms

Below is generated by plot.py at 2018-06-19 16:50:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.07 Mbit/s

95th percentile per-packet one-way delay: 140.120 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 39.87 Mbit/s

95th percentile per-packet one-way delay: 139.304 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.90 Mbit/s

95th percentile per-packet one-way delay: 141.569 ms

Loss rate: 0.00%

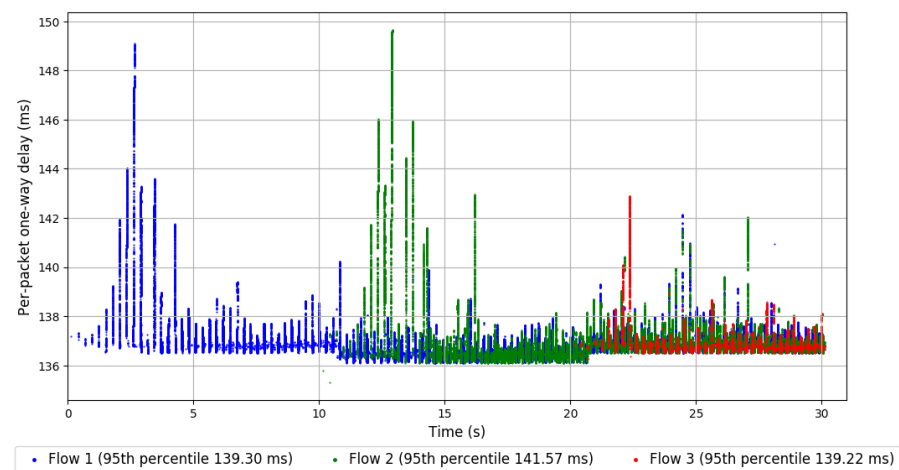
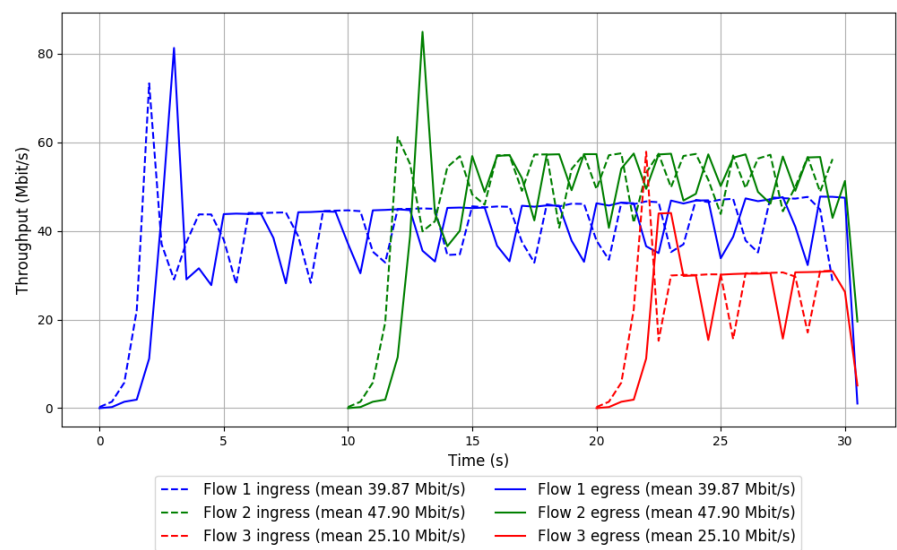
-- Flow 3:

Average throughput: 25.10 Mbit/s

95th percentile per-packet one-way delay: 139.221 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-06-19 12:50:57

End at: 2018-06-19 12:51:27

Local clock offset: -0.282 ms

Remote clock offset: 0.449 ms

Below is generated by plot.py at 2018-06-19 16:50:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.03 Mbit/s

95th percentile per-packet one-way delay: 141.160 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 33.61 Mbit/s

95th percentile per-packet one-way delay: 139.718 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 25.76 Mbit/s

95th percentile per-packet one-way delay: 138.903 ms

Loss rate: 0.00%

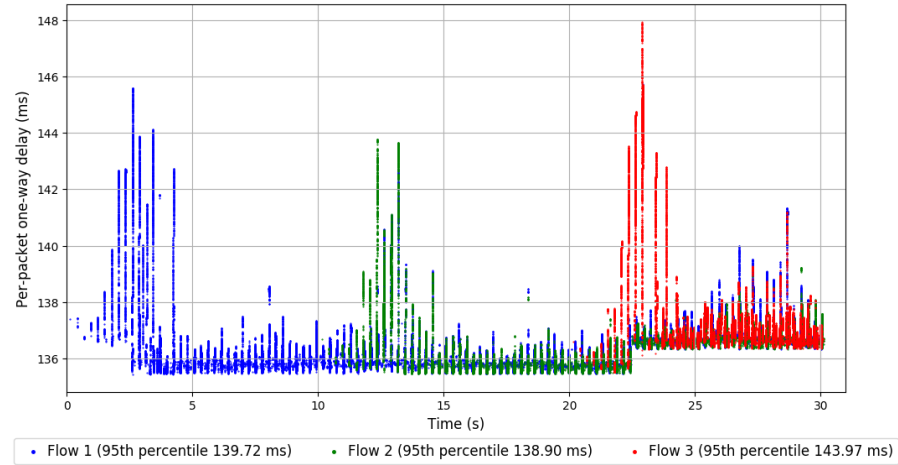
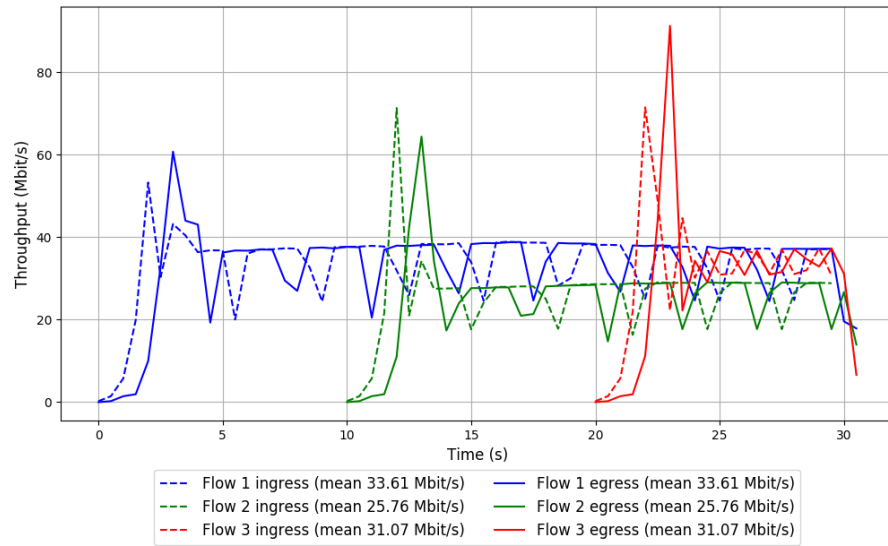
-- Flow 3:

Average throughput: 31.07 Mbit/s

95th percentile per-packet one-way delay: 143.973 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-06-19 13:15:49

End at: 2018-06-19 13:16:19

Local clock offset: -0.076 ms

Remote clock offset: 0.177 ms

Below is generated by plot.py at 2018-06-19 16:50:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 107.66 Mbit/s

95th percentile per-packet one-way delay: 139.105 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.75 Mbit/s

95th percentile per-packet one-way delay: 138.882 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.75 Mbit/s

95th percentile per-packet one-way delay: 139.596 ms

Loss rate: 0.00%

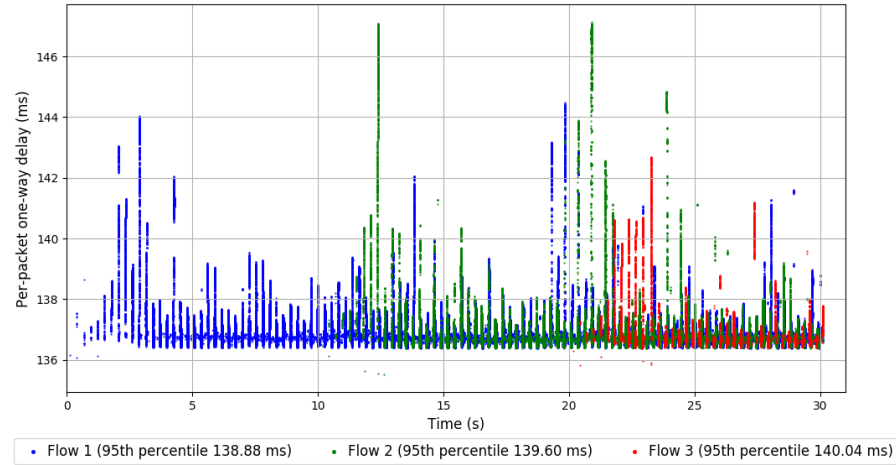
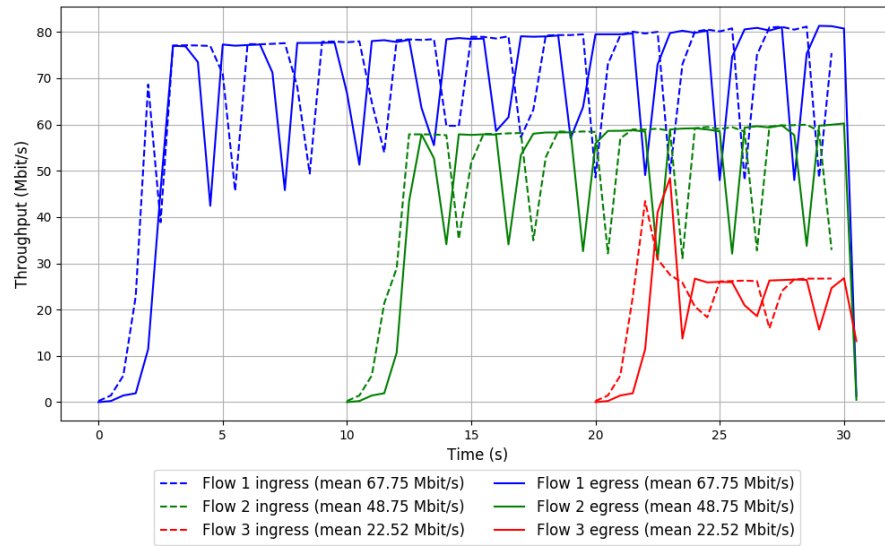
-- Flow 3:

Average throughput: 22.52 Mbit/s

95th percentile per-packet one-way delay: 140.044 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-06-19 13:40:25

End at: 2018-06-19 13:40:55

Local clock offset: -0.092 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2018-06-19 16:50:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 58.36 Mbit/s

95th percentile per-packet one-way delay: 139.347 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 30.73 Mbit/s

95th percentile per-packet one-way delay: 138.271 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 26.55 Mbit/s

95th percentile per-packet one-way delay: 140.890 ms

Loss rate: 0.00%

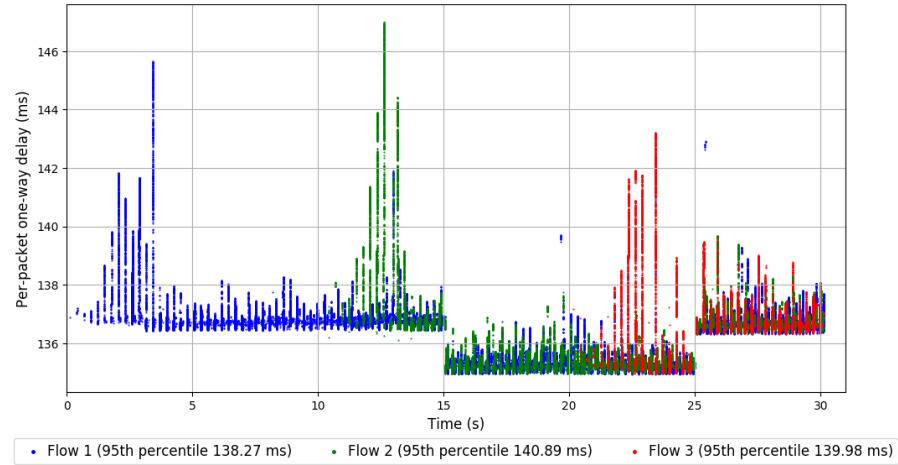
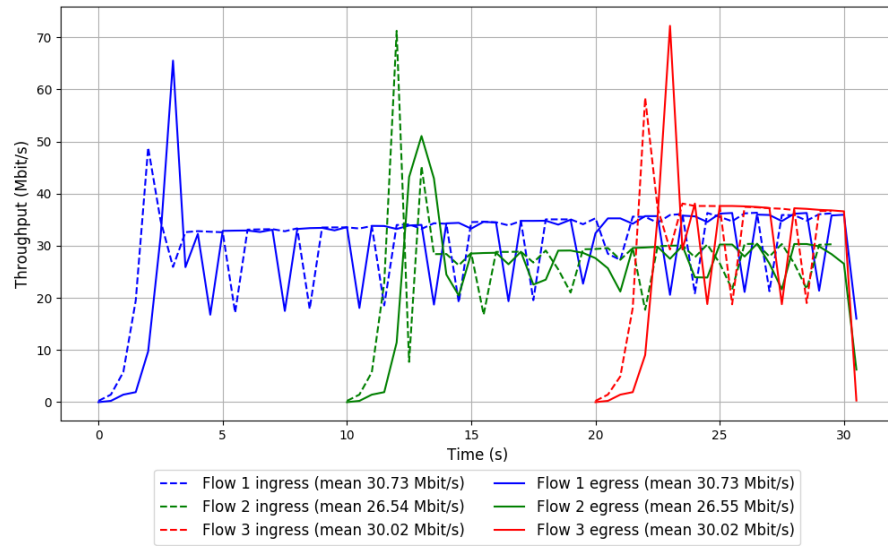
-- Flow 3:

Average throughput: 30.02 Mbit/s

95th percentile per-packet one-way delay: 139.979 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link

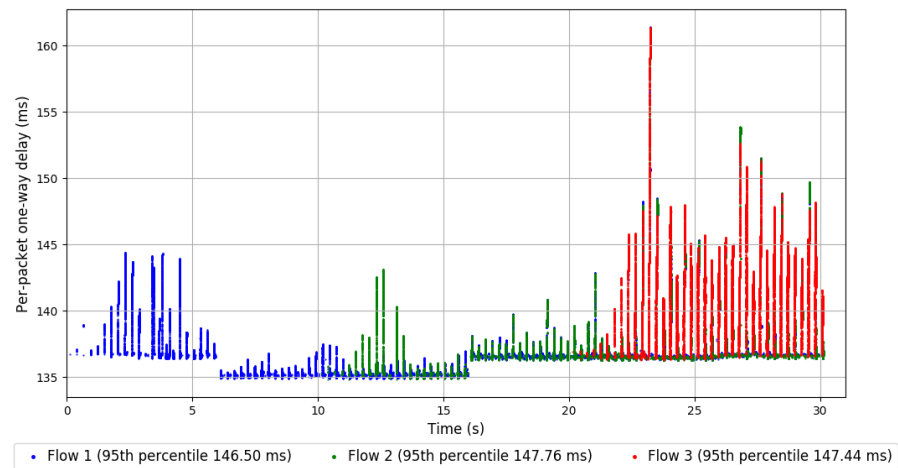
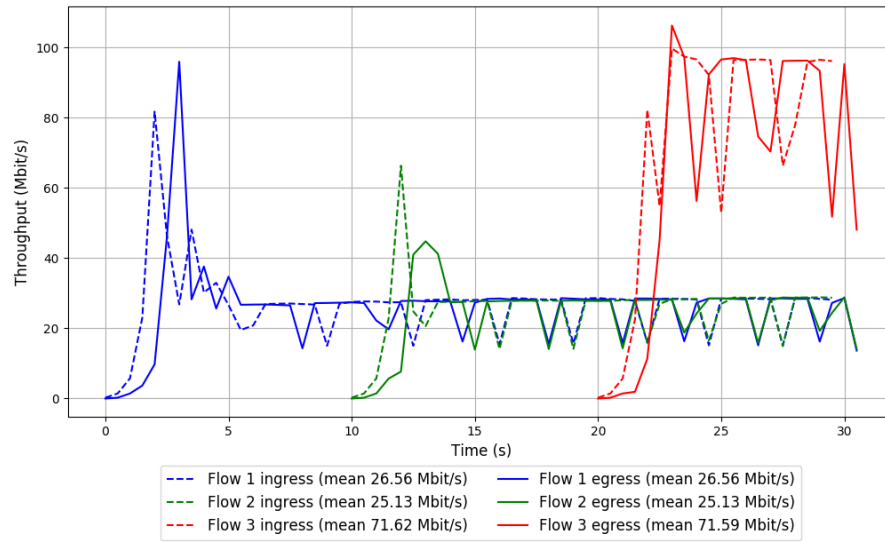


Run 9: Statistics of TCP Vegas

Start at: 2018-06-19 14:05:34
End at: 2018-06-19 14:06:04
Local clock offset: -0.096 ms
Remote clock offset: 0.024 ms

Below is generated by plot.py at 2018-06-19 16:50:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 67.07 Mbit/s
95th percentile per-packet one-way delay: 147.359 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 26.56 Mbit/s
95th percentile per-packet one-way delay: 146.501 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 25.13 Mbit/s
95th percentile per-packet one-way delay: 147.762 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 71.59 Mbit/s
95th percentile per-packet one-way delay: 147.442 ms
Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-06-19 14:29:58

End at: 2018-06-19 14:30:28

Local clock offset: -0.236 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2018-06-19 16:50:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.46 Mbit/s

95th percentile per-packet one-way delay: 139.021 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 46.91 Mbit/s

95th percentile per-packet one-way delay: 138.346 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.59 Mbit/s

95th percentile per-packet one-way delay: 140.265 ms

Loss rate: 0.00%

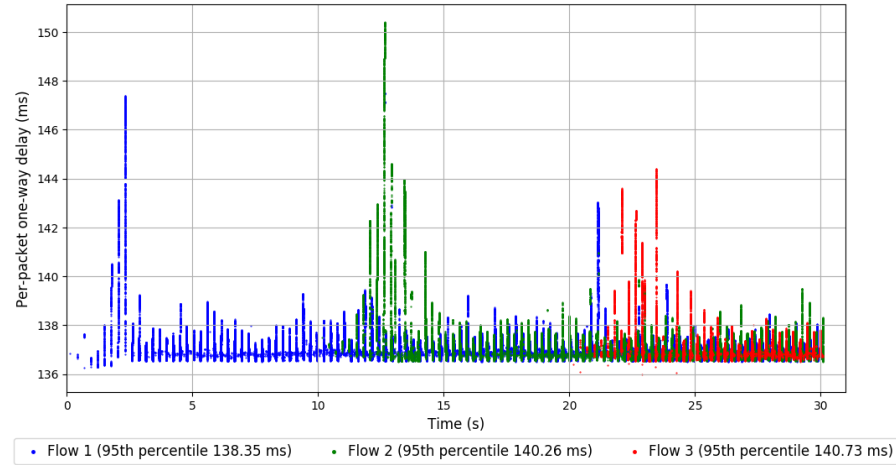
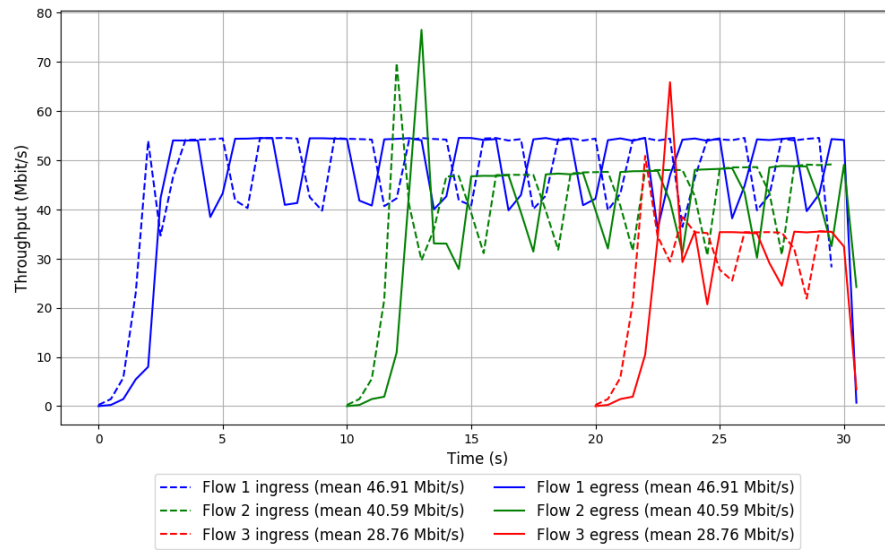
-- Flow 3:

Average throughput: 28.76 Mbit/s

95th percentile per-packet one-way delay: 140.730 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

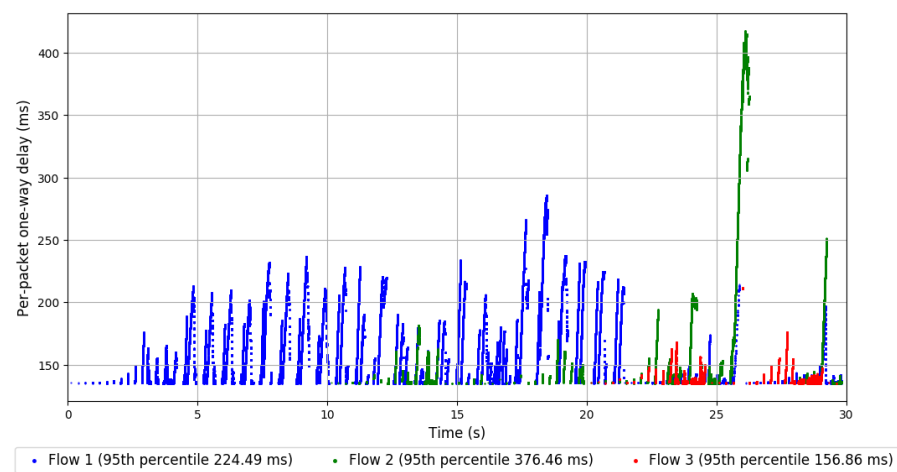
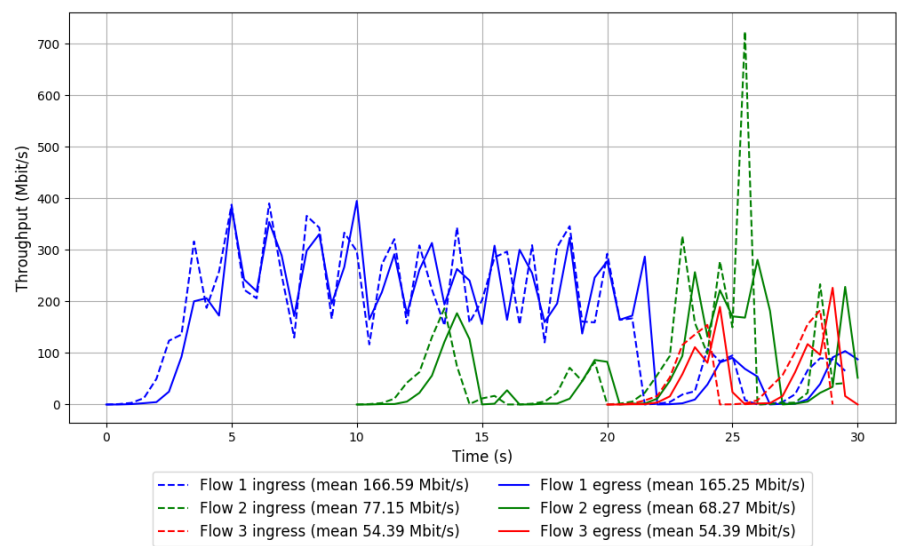


Run 1: Statistics of Verus

Start at: 2018-06-19 10:55:12
End at: 2018-06-19 10:55:42
Local clock offset: 0.292 ms
Remote clock offset: -0.389 ms

Below is generated by plot.py at 2018-06-19 16:50:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 227.79 Mbit/s
95th percentile per-packet one-way delay: 230.631 ms
Loss rate: 3.07%
-- Flow 1:
Average throughput: 165.25 Mbit/s
95th percentile per-packet one-way delay: 224.492 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 68.27 Mbit/s
95th percentile per-packet one-way delay: 376.461 ms
Loss rate: 11.51%
-- Flow 3:
Average throughput: 54.39 Mbit/s
95th percentile per-packet one-way delay: 156.859 ms
Loss rate: 0.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-06-19 11:20:16

End at: 2018-06-19 11:20:46

Local clock offset: 0.123 ms

Remote clock offset: 0.123 ms

Below is generated by plot.py at 2018-06-19 16:50:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 208.66 Mbit/s

95th percentile per-packet one-way delay: 305.736 ms

Loss rate: 2.02%

-- Flow 1:

Average throughput: 139.13 Mbit/s

95th percentile per-packet one-way delay: 304.028 ms

Loss rate: 1.83%

-- Flow 2:

Average throughput: 97.16 Mbit/s

95th percentile per-packet one-way delay: 329.643 ms

Loss rate: 2.58%

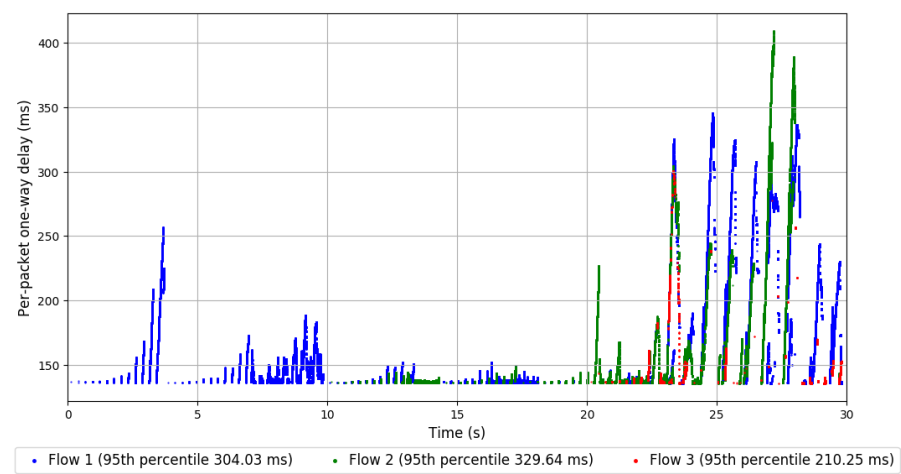
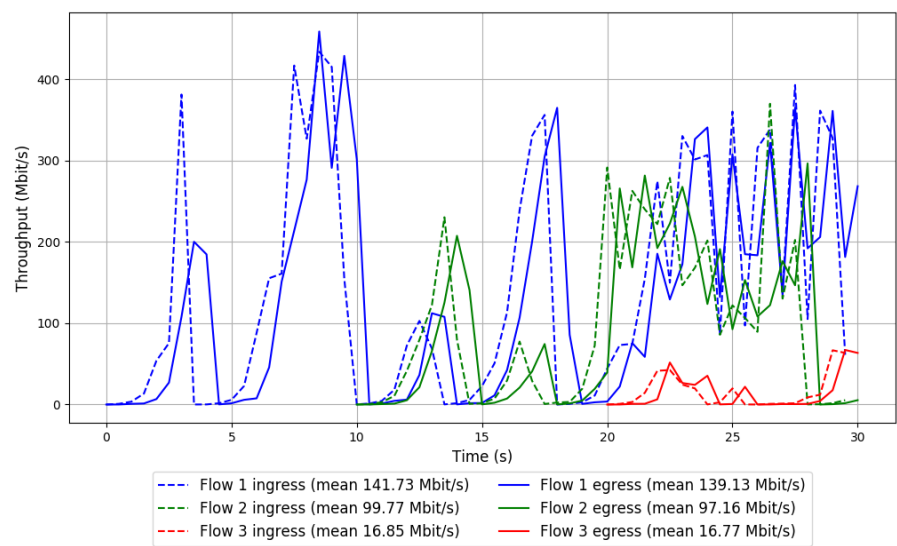
-- Flow 3:

Average throughput: 16.77 Mbit/s

95th percentile per-packet one-way delay: 210.245 ms

Loss rate: 0.28%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-06-19 11:45:06

End at: 2018-06-19 11:45:36

Local clock offset: 0.411 ms

Remote clock offset: 0.027 ms

Below is generated by plot.py at 2018-06-19 16:50:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 215.61 Mbit/s

95th percentile per-packet one-way delay: 281.774 ms

Loss rate: 1.81%

-- Flow 1:

Average throughput: 147.28 Mbit/s

95th percentile per-packet one-way delay: 183.628 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 49.18 Mbit/s

95th percentile per-packet one-way delay: 225.959 ms

Loss rate: 0.43%

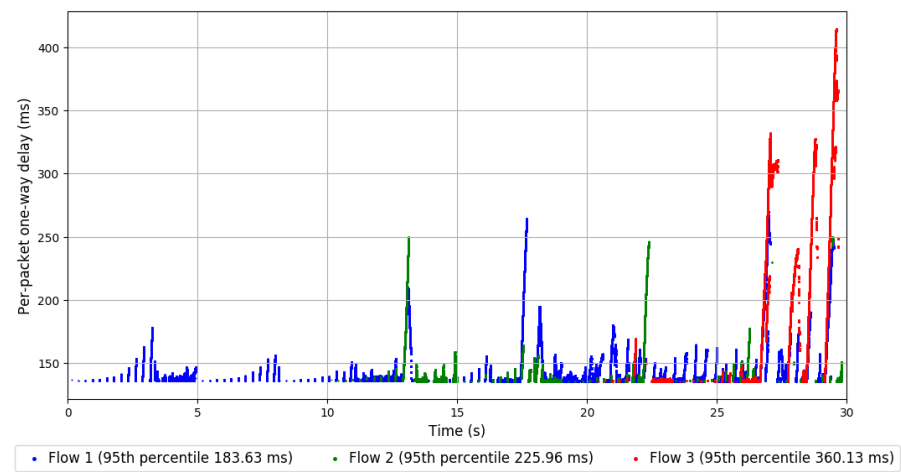
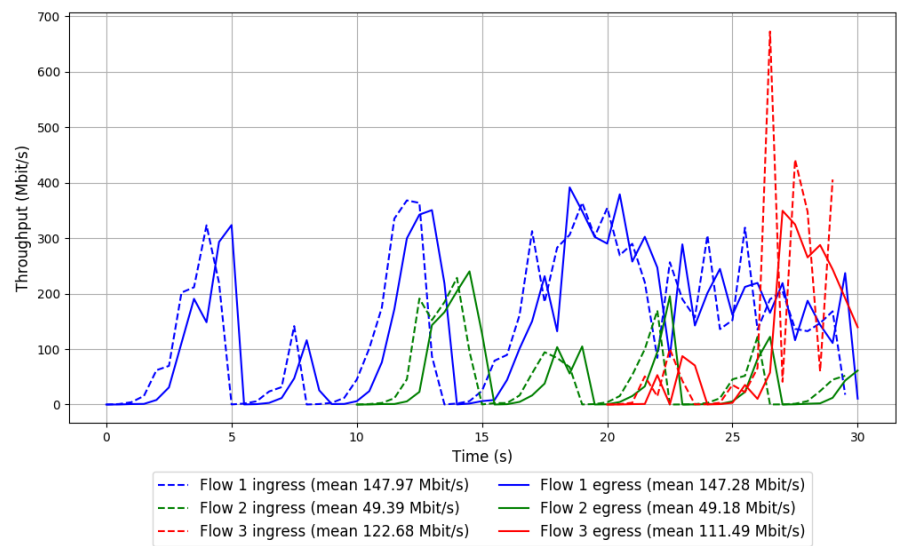
-- Flow 3:

Average throughput: 111.49 Mbit/s

95th percentile per-packet one-way delay: 360.135 ms

Loss rate: 8.10%

Run 3: Report of Verus — Data Link

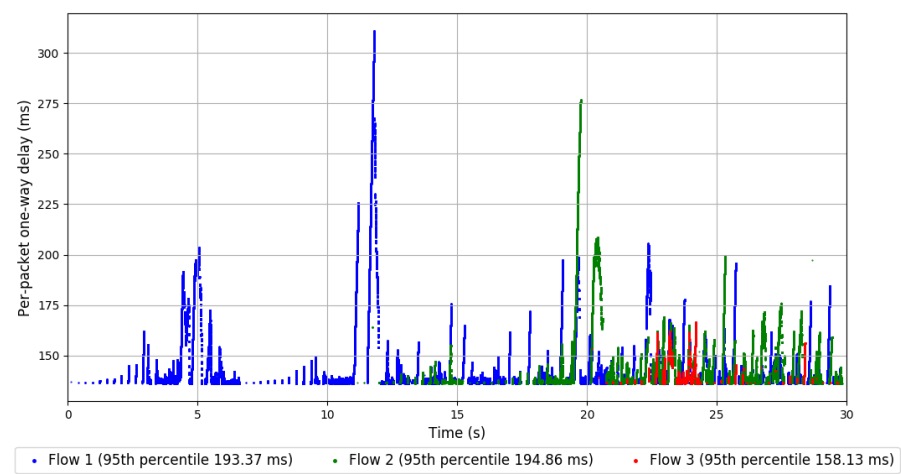
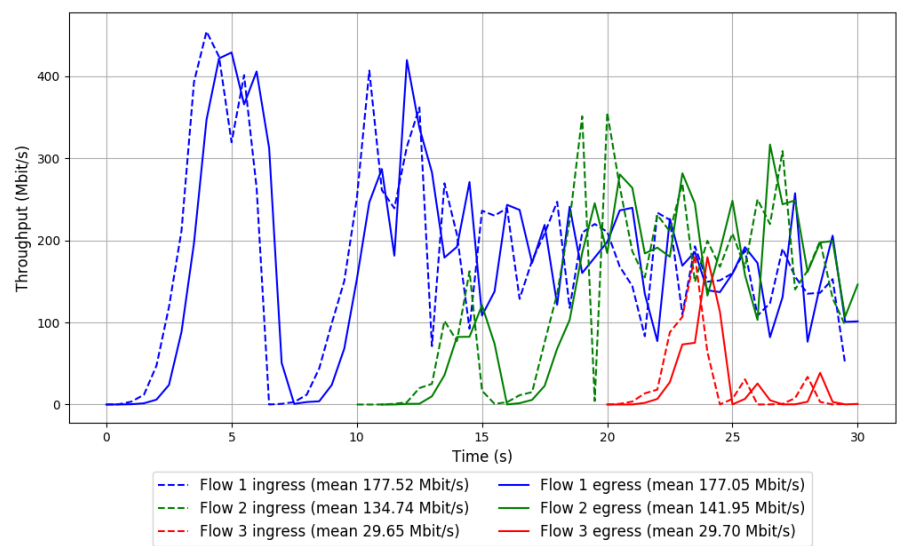


Run 4: Statistics of Verus

Start at: 2018-06-19 12:10:00
End at: 2018-06-19 12:10:30
Local clock offset: -0.001 ms
Remote clock offset: -0.125 ms

Below is generated by plot.py at 2018-06-19 16:50:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 275.43 Mbit/s
95th percentile per-packet one-way delay: 192.868 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 177.05 Mbit/s
95th percentile per-packet one-way delay: 193.373 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 141.95 Mbit/s
95th percentile per-packet one-way delay: 194.857 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 29.70 Mbit/s
95th percentile per-packet one-way delay: 158.129 ms
Loss rate: 0.00%

Run 4: Report of Verus — Data Link

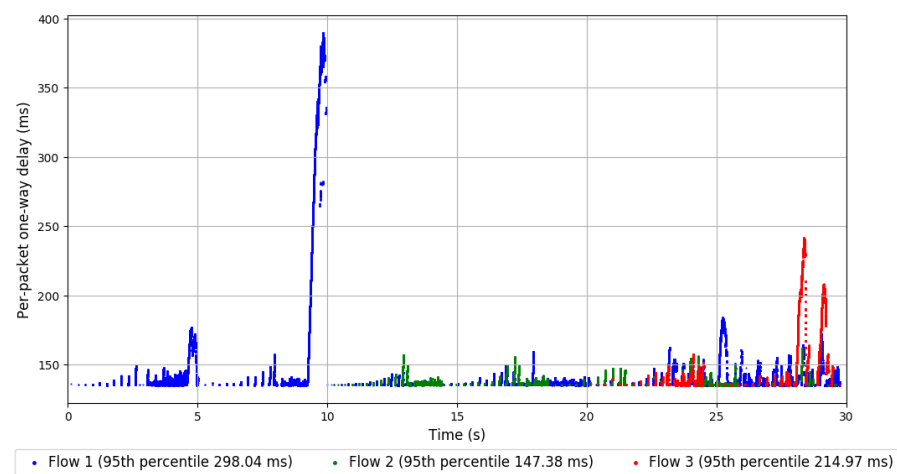
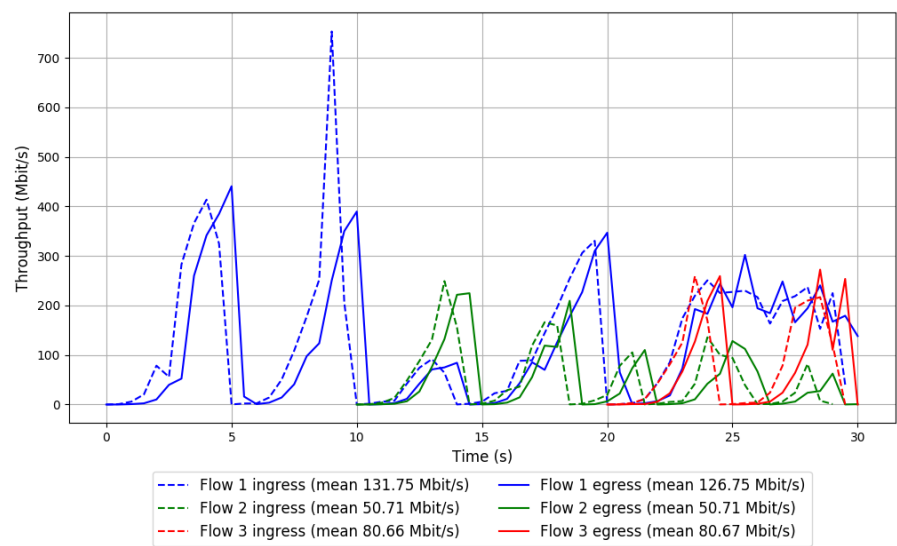


Run 5: Statistics of Verus

Start at: 2018-06-19 12:35:06
End at: 2018-06-19 12:35:36
Local clock offset: 0.079 ms
Remote clock offset: -0.363 ms

Below is generated by plot.py at 2018-06-19 16:50:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 186.12 Mbit/s
95th percentile per-packet one-way delay: 220.794 ms
Loss rate: 2.62%
-- Flow 1:
Average throughput: 126.75 Mbit/s
95th percentile per-packet one-way delay: 298.043 ms
Loss rate: 3.79%
-- Flow 2:
Average throughput: 50.71 Mbit/s
95th percentile per-packet one-way delay: 147.385 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 80.67 Mbit/s
95th percentile per-packet one-way delay: 214.973 ms
Loss rate: 0.00%

Run 5: Report of Verus — Data Link

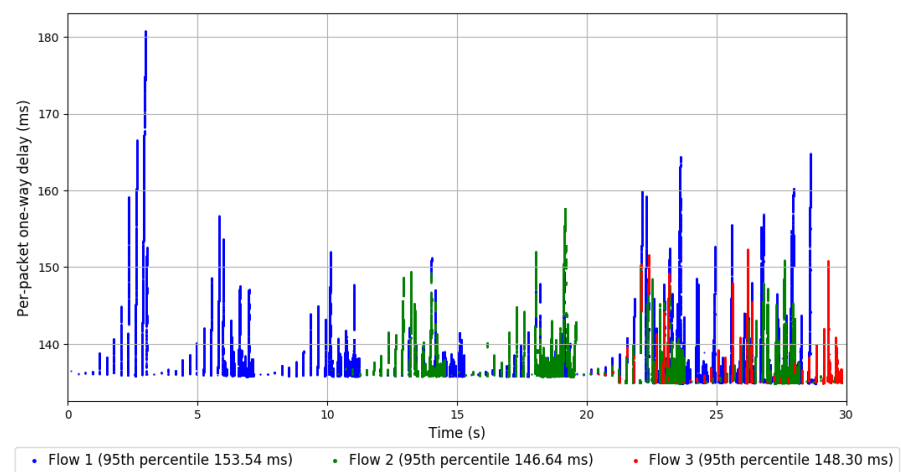
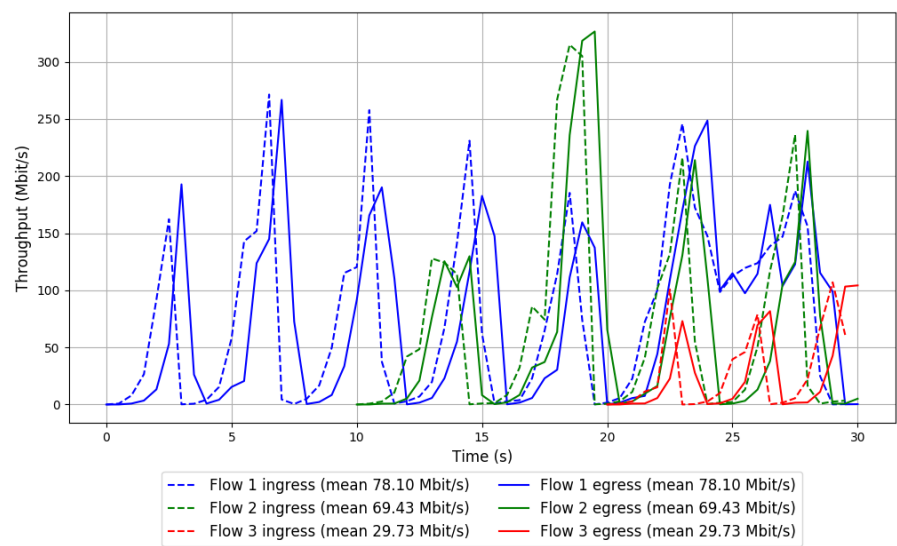


Run 6: Statistics of Verus

Start at: 2018-06-19 13:00:08
End at: 2018-06-19 13:00:38
Local clock offset: -0.079 ms
Remote clock offset: 0.117 ms

Below is generated by plot.py at 2018-06-19 16:50:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 133.35 Mbit/s
95th percentile per-packet one-way delay: 150.937 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 78.10 Mbit/s
95th percentile per-packet one-way delay: 153.544 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 69.43 Mbit/s
95th percentile per-packet one-way delay: 146.641 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.73 Mbit/s
95th percentile per-packet one-way delay: 148.303 ms
Loss rate: 0.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-06-19 13:24:45

End at: 2018-06-19 13:25:15

Local clock offset: 0.172 ms

Remote clock offset: 0.134 ms

Below is generated by plot.py at 2018-06-19 16:50:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 143.84 Mbit/s

95th percentile per-packet one-way delay: 188.017 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 62.67 Mbit/s

95th percentile per-packet one-way delay: 265.935 ms

Loss rate: 2.13%

-- Flow 2:

Average throughput: 104.56 Mbit/s

95th percentile per-packet one-way delay: 162.075 ms

Loss rate: 0.43%

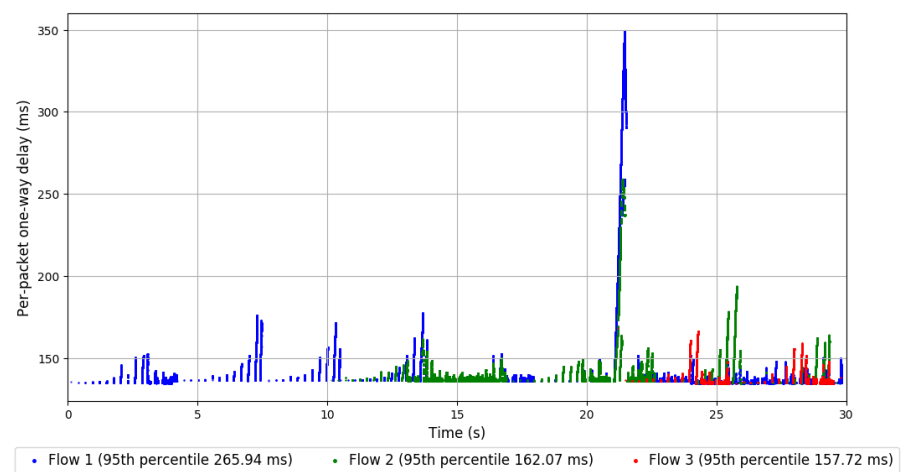
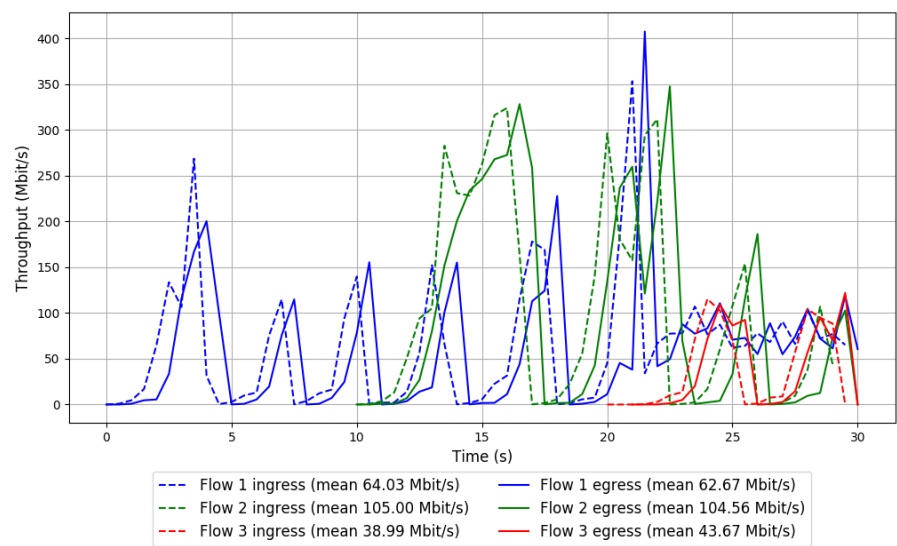
-- Flow 3:

Average throughput: 43.67 Mbit/s

95th percentile per-packet one-way delay: 157.720 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link

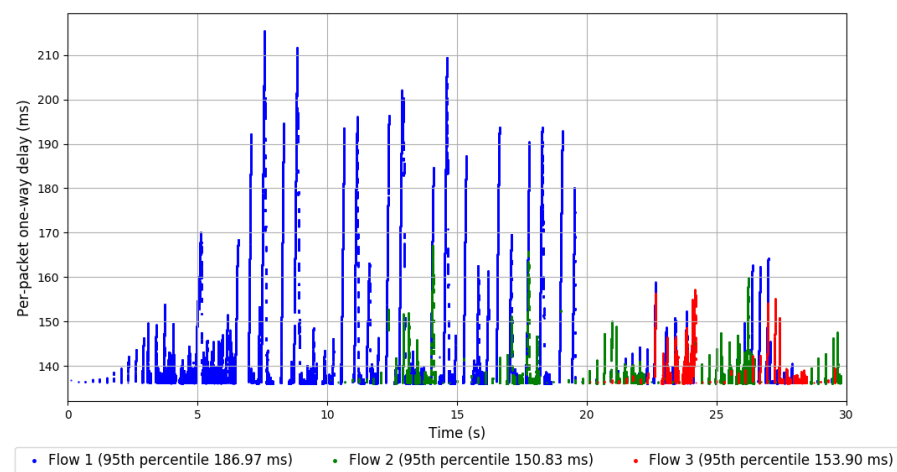
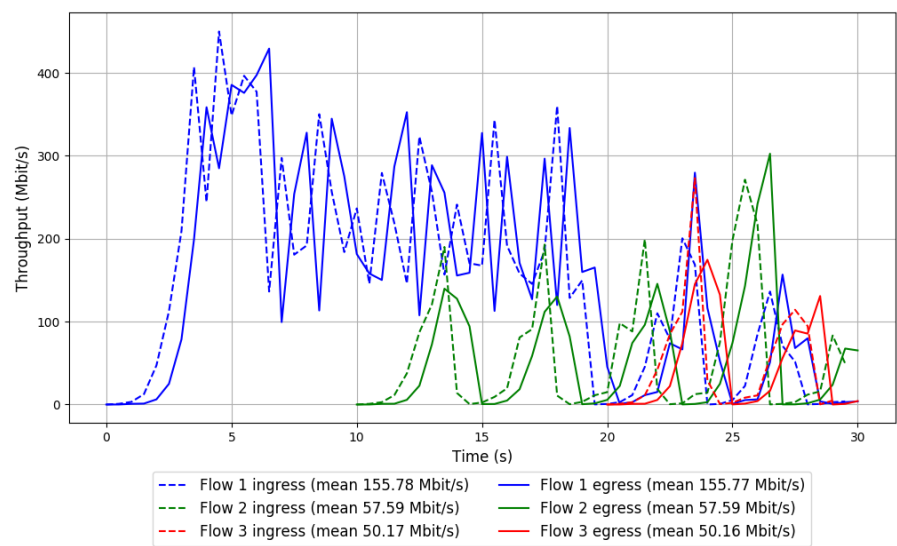


Run 8: Statistics of Verus

Start at: 2018-06-19 13:49:27
End at: 2018-06-19 13:49:57
Local clock offset: -0.161 ms
Remote clock offset: -0.388 ms

Below is generated by plot.py at 2018-06-19 16:50:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 209.47 Mbit/s
95th percentile per-packet one-way delay: 183.544 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 155.77 Mbit/s
95th percentile per-packet one-way delay: 186.972 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 57.59 Mbit/s
95th percentile per-packet one-way delay: 150.826 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 50.16 Mbit/s
95th percentile per-packet one-way delay: 153.898 ms
Loss rate: 0.00%

Run 8: Report of Verus — Data Link

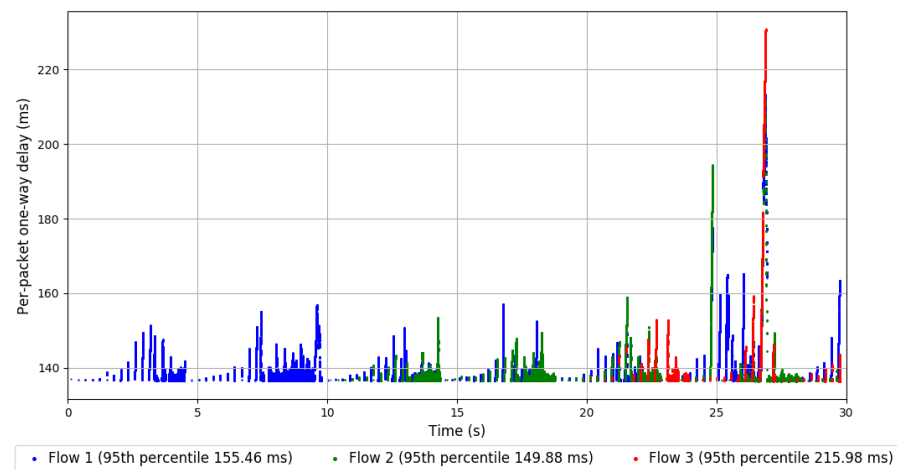
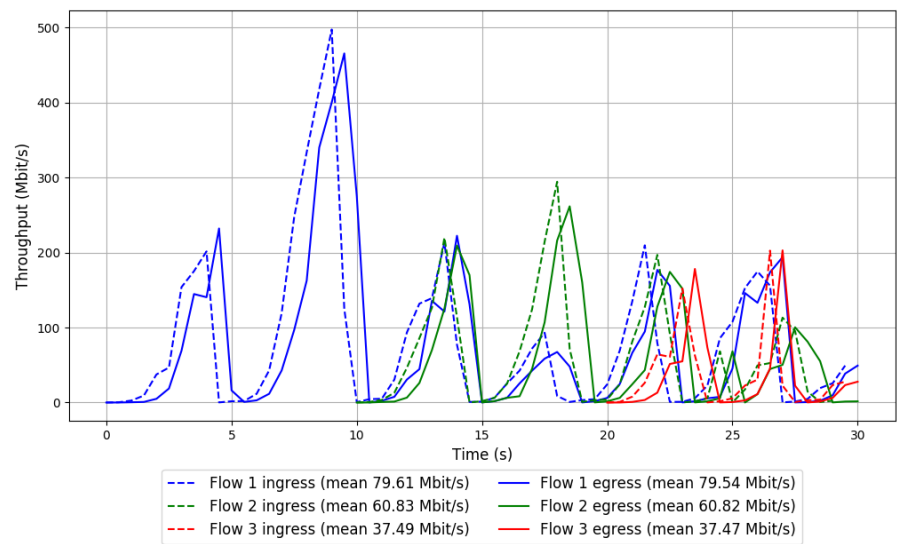


Run 9: Statistics of Verus

Start at: 2018-06-19 14:14:33
End at: 2018-06-19 14:15:03
Local clock offset: -0.191 ms
Remote clock offset: -0.001 ms

Below is generated by plot.py at 2018-06-19 16:50:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 131.64 Mbit/s
95th percentile per-packet one-way delay: 158.436 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 79.54 Mbit/s
95th percentile per-packet one-way delay: 155.457 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 60.82 Mbit/s
95th percentile per-packet one-way delay: 149.877 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 37.47 Mbit/s
95th percentile per-packet one-way delay: 215.980 ms
Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-06-19 14:39:09

End at: 2018-06-19 14:39:39

Local clock offset: 0.123 ms

Remote clock offset: 0.439 ms

Below is generated by plot.py at 2018-06-19 16:51:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 271.28 Mbit/s

95th percentile per-packet one-way delay: 322.042 ms

Loss rate: 4.54%

-- Flow 1:

Average throughput: 176.86 Mbit/s

95th percentile per-packet one-way delay: 336.233 ms

Loss rate: 5.39%

-- Flow 2:

Average throughput: 135.12 Mbit/s

95th percentile per-packet one-way delay: 265.724 ms

Loss rate: 2.88%

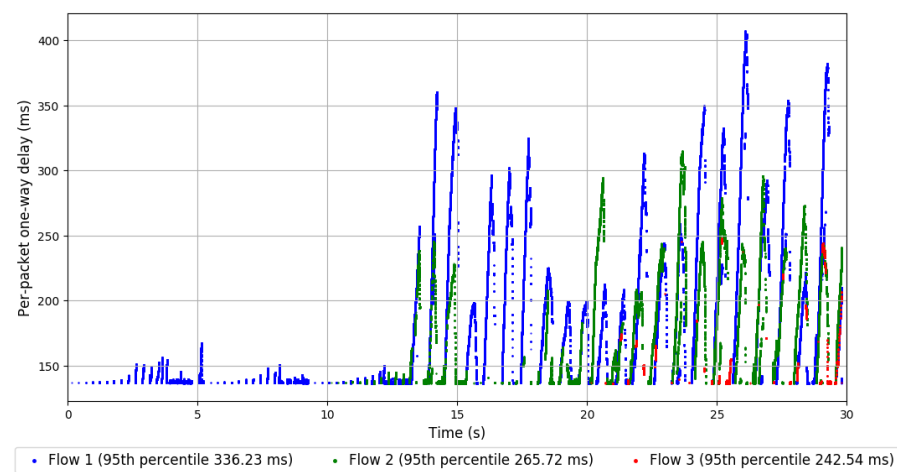
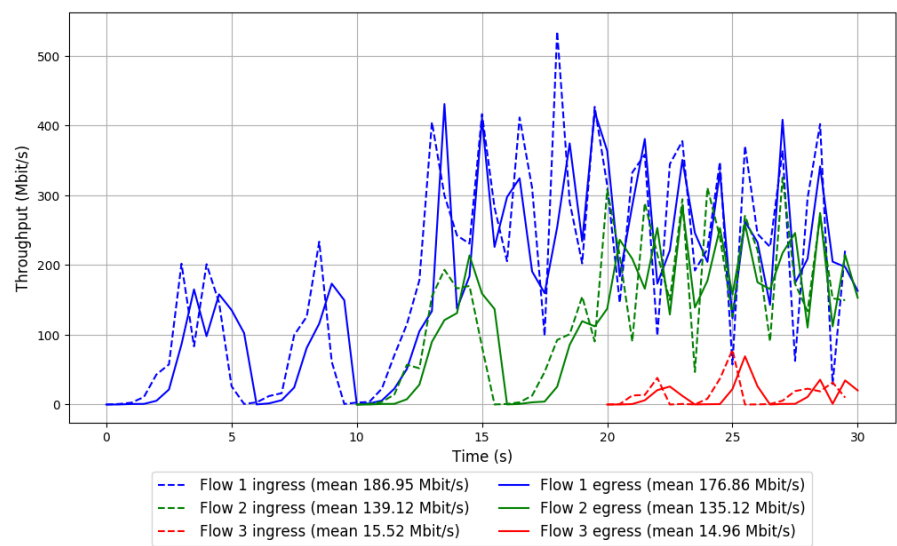
-- Flow 3:

Average throughput: 14.96 Mbit/s

95th percentile per-packet one-way delay: 242.541 ms

Loss rate: 3.58%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-06-19 10:48:53

End at: 2018-06-19 10:49:23

Local clock offset: 0.232 ms

Remote clock offset: -0.39 ms

Below is generated by plot.py at 2018-06-19 16:56:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 498.97 Mbit/s

95th percentile per-packet one-way delay: 157.737 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 314.68 Mbit/s

95th percentile per-packet one-way delay: 150.676 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 242.83 Mbit/s

95th percentile per-packet one-way delay: 173.260 ms

Loss rate: 0.05%

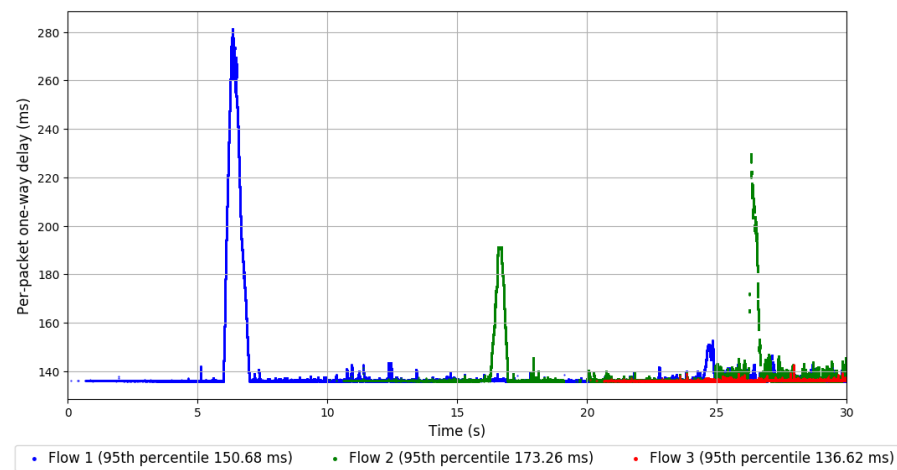
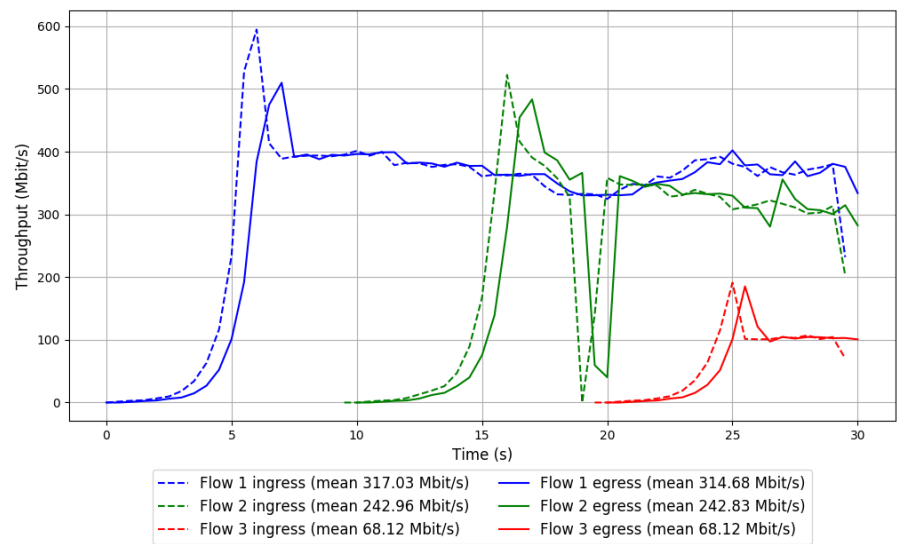
-- Flow 3:

Average throughput: 68.12 Mbit/s

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

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-06-19 11:13:56

End at: 2018-06-19 11:14:26

Local clock offset: 0.253 ms

Remote clock offset: 0.111 ms

Below is generated by plot.py at 2018-06-19 16:56:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 404.86 Mbit/s

95th percentile per-packet one-way delay: 139.596 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 247.86 Mbit/s

95th percentile per-packet one-way delay: 148.671 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 178.26 Mbit/s

95th percentile per-packet one-way delay: 137.645 ms

Loss rate: 0.00%

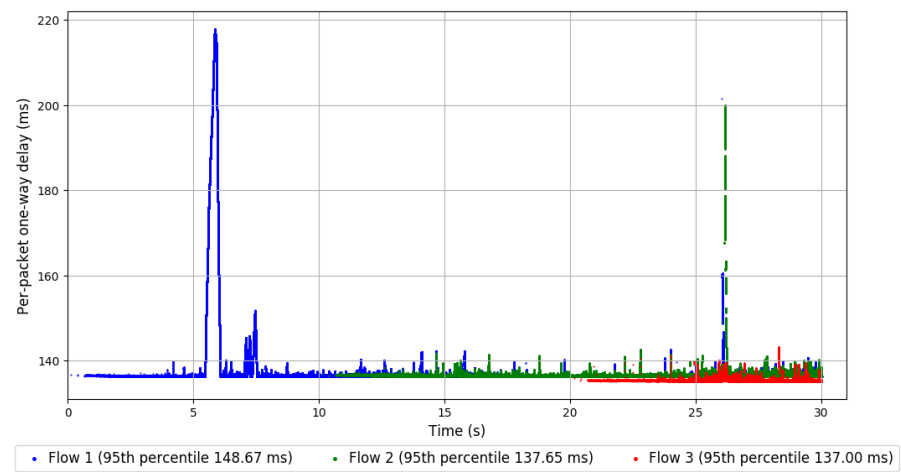
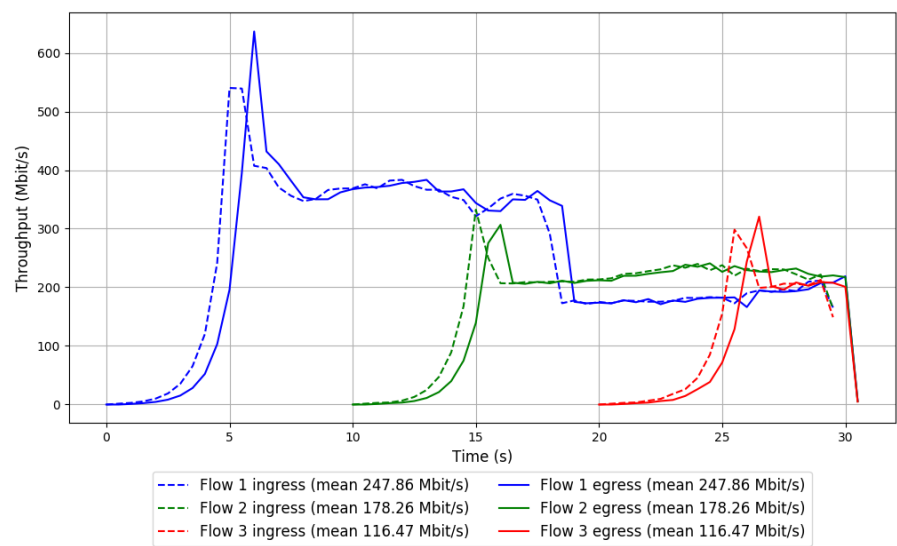
-- Flow 3:

Average throughput: 116.47 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-06-19 11:38:48

End at: 2018-06-19 11:39:18

Local clock offset: -0.008 ms

Remote clock offset: 0.181 ms

Below is generated by plot.py at 2018-06-19 16:56:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 435.76 Mbit/s

95th percentile per-packet one-way delay: 151.180 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 268.61 Mbit/s

95th percentile per-packet one-way delay: 158.214 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 193.88 Mbit/s

95th percentile per-packet one-way delay: 139.267 ms

Loss rate: 0.00%

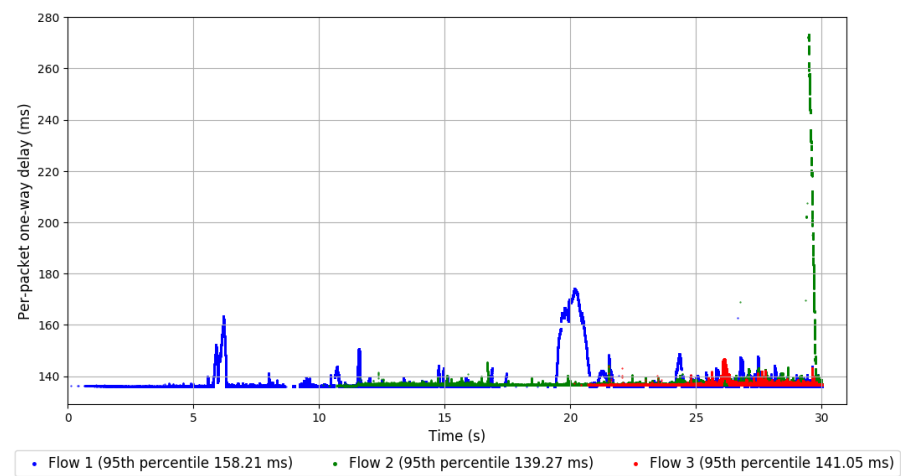
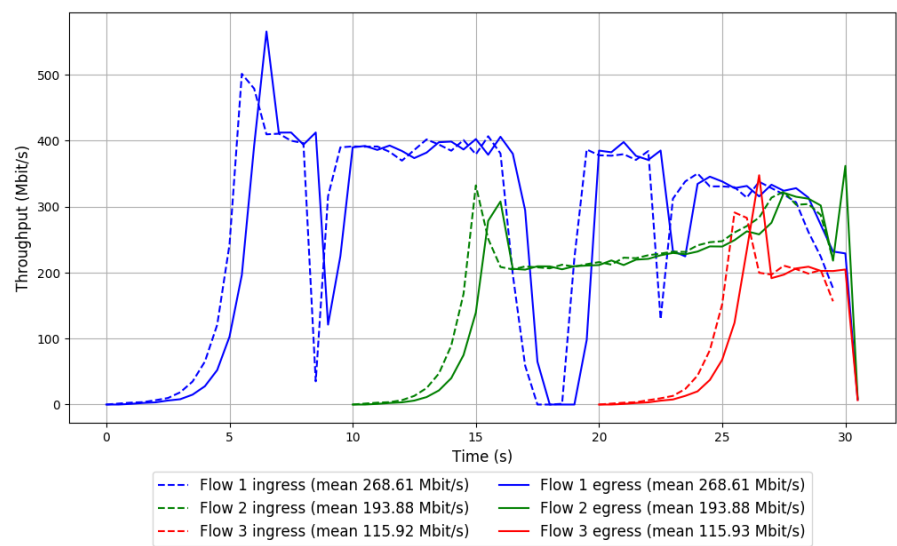
-- Flow 3:

Average throughput: 115.93 Mbit/s

95th percentile per-packet one-way delay: 141.046 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link

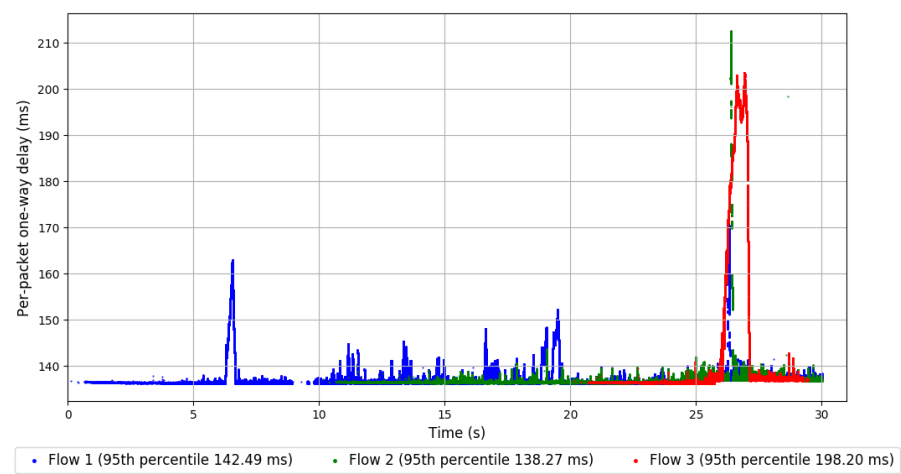
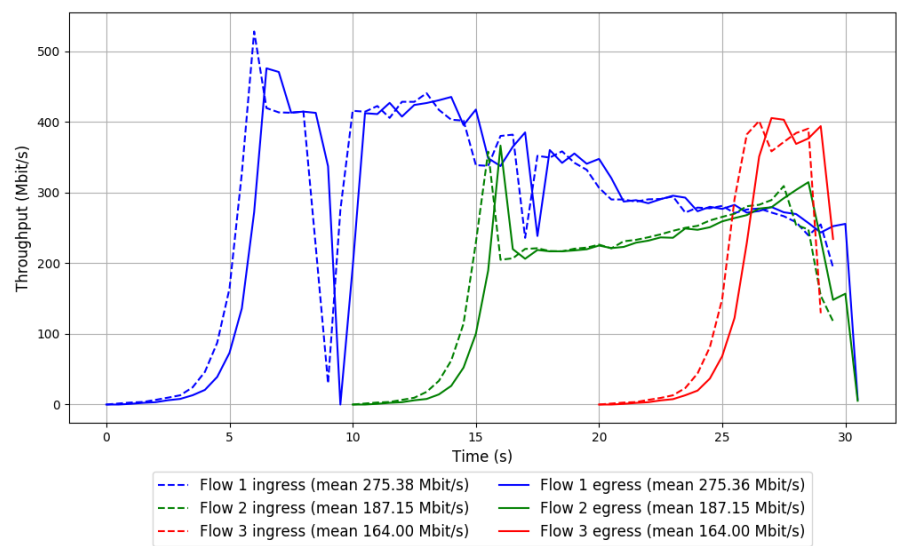


Run 4: Statistics of PCC-Vivace

Start at: 2018-06-19 12:03:34
End at: 2018-06-19 12:04:04
Local clock offset: -0.53 ms
Remote clock offset: -0.088 ms

Below is generated by plot.py at 2018-06-19 16:56:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 450.71 Mbit/s
95th percentile per-packet one-way delay: 146.169 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 275.36 Mbit/s
95th percentile per-packet one-way delay: 142.487 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 187.15 Mbit/s
95th percentile per-packet one-way delay: 138.273 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 164.00 Mbit/s
95th percentile per-packet one-way delay: 198.204 ms
Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link

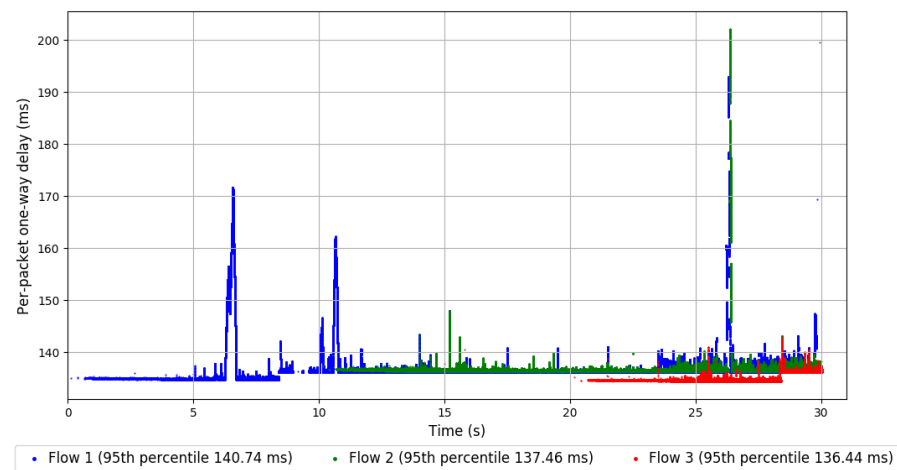
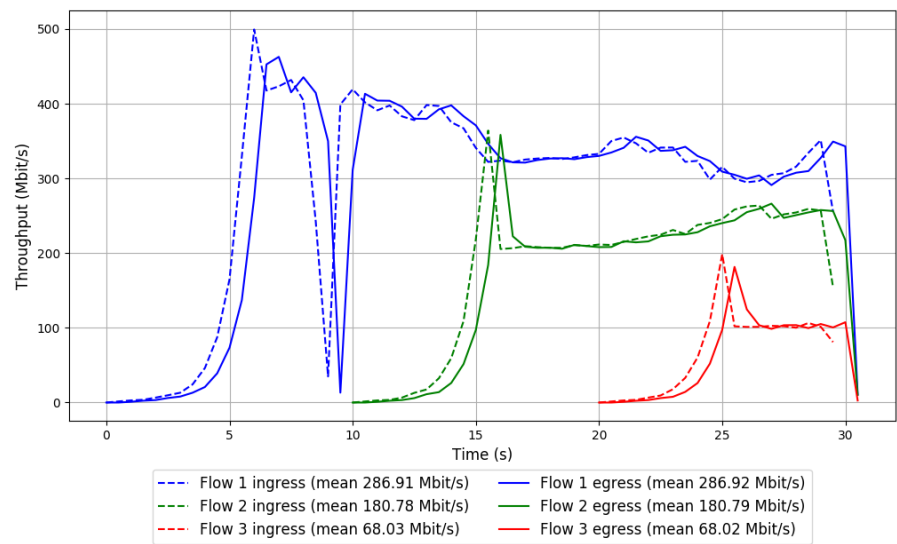


Run 5: Statistics of PCC-Vivace

Start at: 2018-06-19 12:28:41
End at: 2018-06-19 12:29:11
Local clock offset: -0.01 ms
Remote clock offset: -0.044 ms

Below is generated by plot.py at 2018-06-19 16:57:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 429.56 Mbit/s
95th percentile per-packet one-way delay: 138.747 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 286.92 Mbit/s
95th percentile per-packet one-way delay: 140.744 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 180.79 Mbit/s
95th percentile per-packet one-way delay: 137.461 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 68.02 Mbit/s
95th percentile per-packet one-way delay: 136.436 ms
Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-06-19 12:53:40

End at: 2018-06-19 12:54:10

Local clock offset: -0.173 ms

Remote clock offset: 0.112 ms

Below is generated by plot.py at 2018-06-19 16:58:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 472.37 Mbit/s

95th percentile per-packet one-way delay: 141.556 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 316.85 Mbit/s

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

Loss rate: 0.71%

-- Flow 2:

Average throughput: 201.30 Mbit/s

95th percentile per-packet one-way delay: 138.592 ms

Loss rate: 0.00%

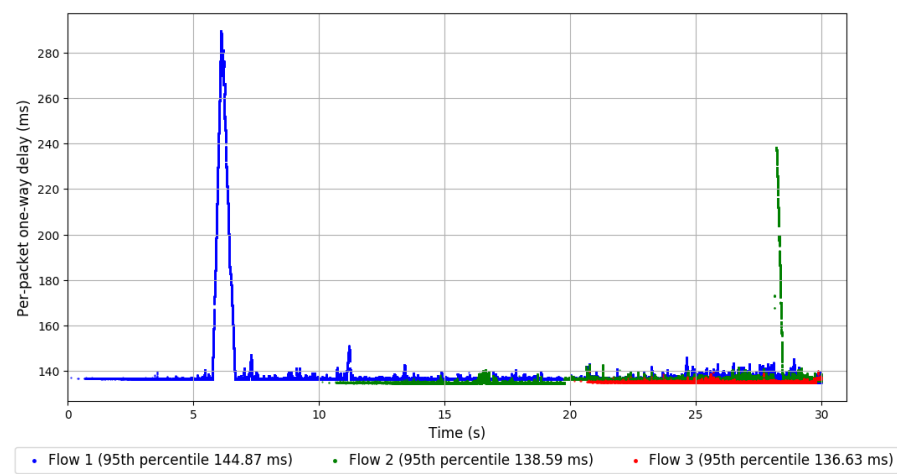
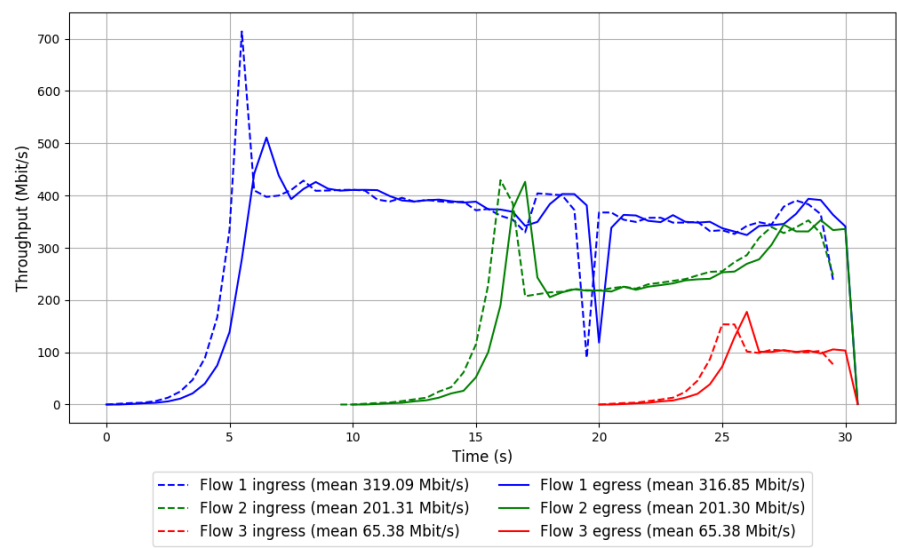
-- Flow 3:

Average throughput: 65.38 Mbit/s

95th percentile per-packet one-way delay: 136.629 ms

Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-06-19 13:18:33

End at: 2018-06-19 13:19:03

Local clock offset: -0.11 ms

Remote clock offset: 0.178 ms

Below is generated by plot.py at 2018-06-19 16:58:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 406.45 Mbit/s

95th percentile per-packet one-way delay: 139.676 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 247.32 Mbit/s

95th percentile per-packet one-way delay: 141.219 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 179.22 Mbit/s

95th percentile per-packet one-way delay: 137.372 ms

Loss rate: 0.00%

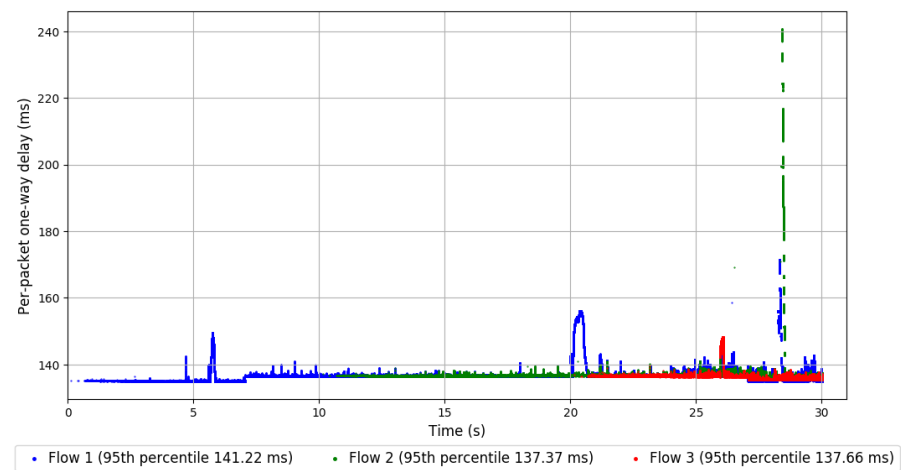
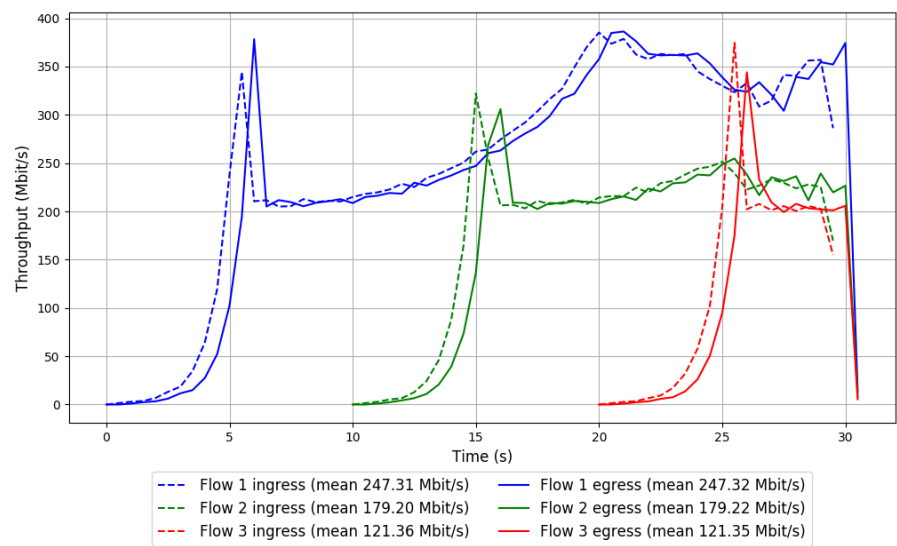
-- Flow 3:

Average throughput: 121.35 Mbit/s

95th percentile per-packet one-way delay: 137.657 ms

Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link

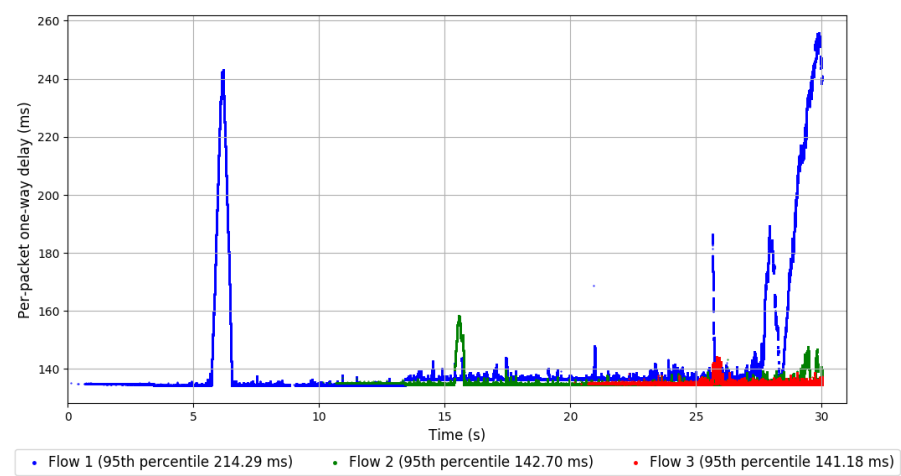
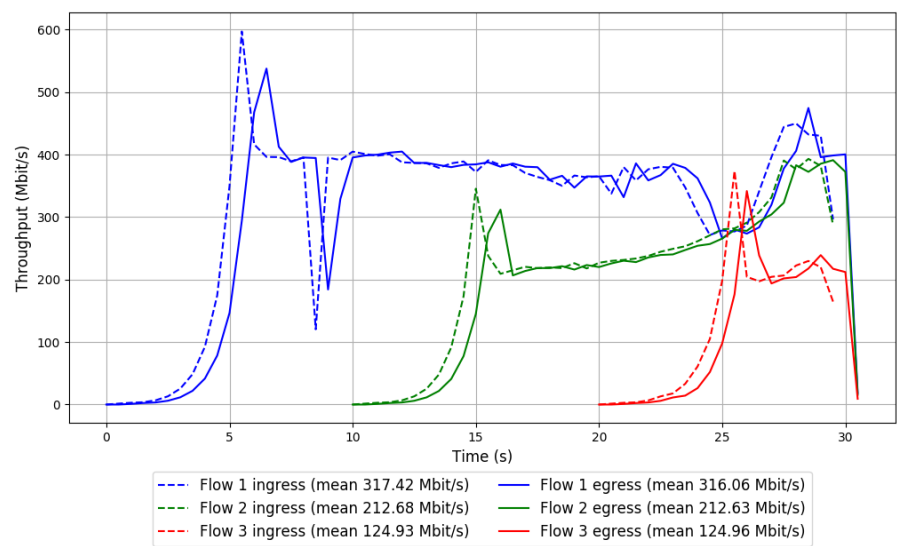


Run 8: Statistics of PCC-Vivace

Start at: 2018-06-19 13:43:06
End at: 2018-06-19 13:43:36
Local clock offset: -0.001 ms
Remote clock offset: -0.381 ms

Below is generated by plot.py at 2018-06-19 16:59:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 498.73 Mbit/s
95th percentile per-packet one-way delay: 182.970 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 316.06 Mbit/s
95th percentile per-packet one-way delay: 214.293 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 212.63 Mbit/s
95th percentile per-packet one-way delay: 142.699 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 124.96 Mbit/s
95th percentile per-packet one-way delay: 141.178 ms
Loss rate: 0.01%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-06-19 14:08:16

End at: 2018-06-19 14:08:46

Local clock offset: -0.043 ms

Remote clock offset: 0.045 ms

Below is generated by plot.py at 2018-06-19 16:59:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 515.89 Mbit/s

95th percentile per-packet one-way delay: 137.784 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 299.21 Mbit/s

95th percentile per-packet one-way delay: 138.256 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 293.75 Mbit/s

95th percentile per-packet one-way delay: 137.511 ms

Loss rate: 0.01%

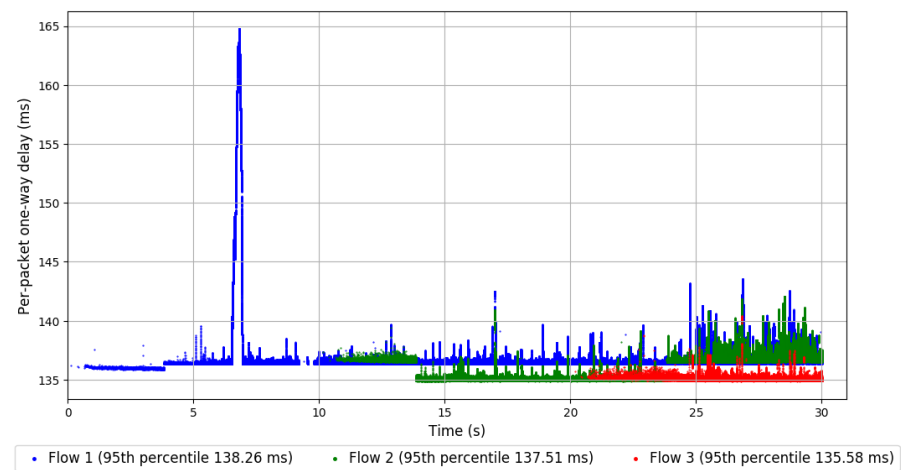
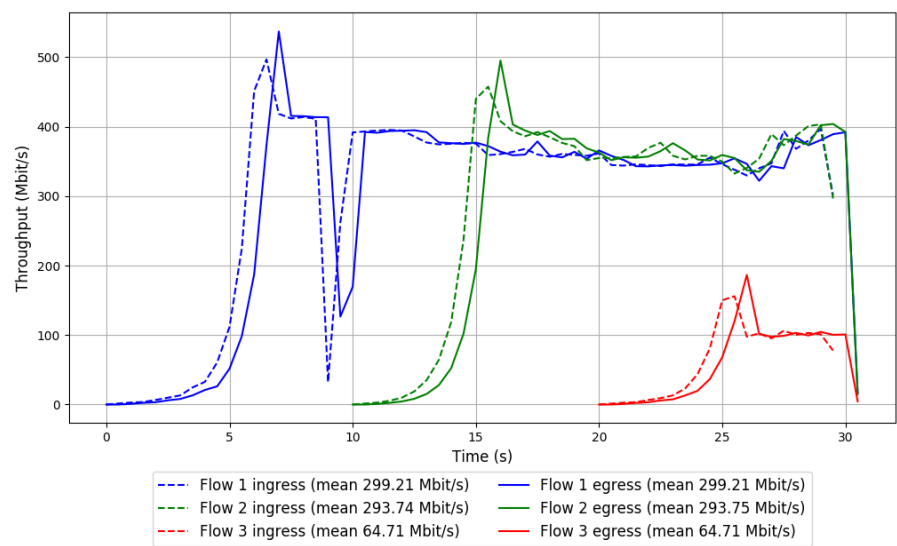
-- Flow 3:

Average throughput: 64.71 Mbit/s

95th percentile per-packet one-way delay: 135.580 ms

Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link

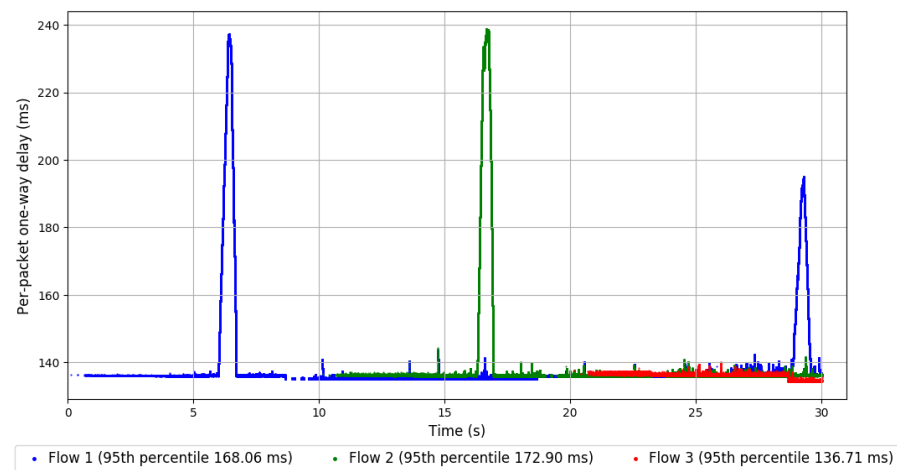
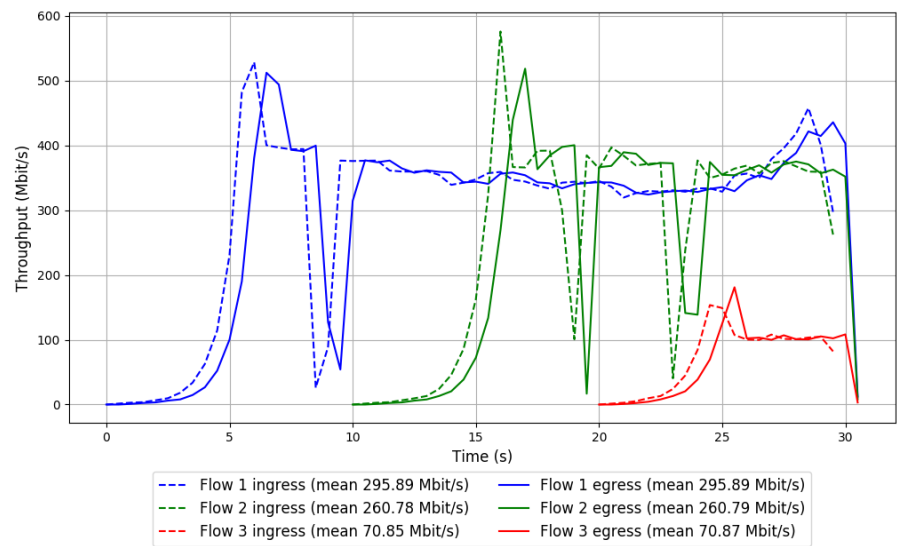


Run 10: Statistics of PCC-Vivace

Start at: 2018-06-19 14:32:41
End at: 2018-06-19 14:33:11
Local clock offset: 0.141 ms
Remote clock offset: -0.265 ms

Below is generated by plot.py at 2018-06-19 17:00:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 492.68 Mbit/s
95th percentile per-packet one-way delay: 165.356 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 295.89 Mbit/s
95th percentile per-packet one-way delay: 168.055 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 260.79 Mbit/s
95th percentile per-packet one-way delay: 172.903 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 70.87 Mbit/s
95th percentile per-packet one-way delay: 136.713 ms
Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link

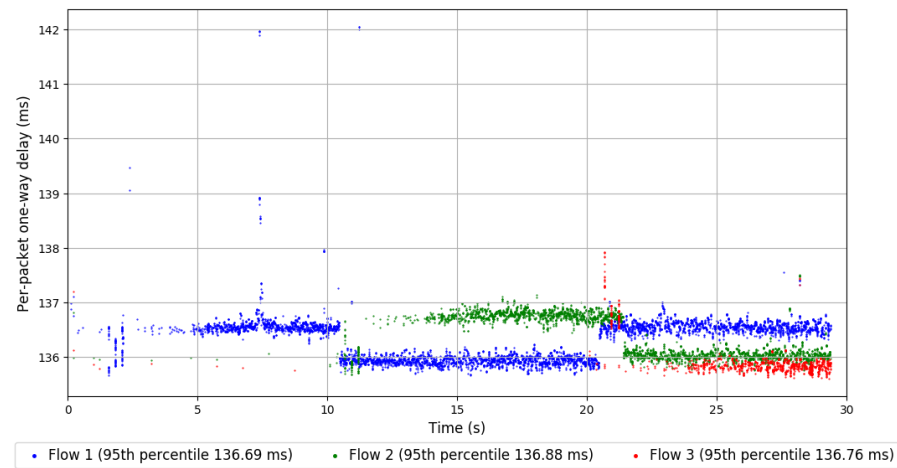
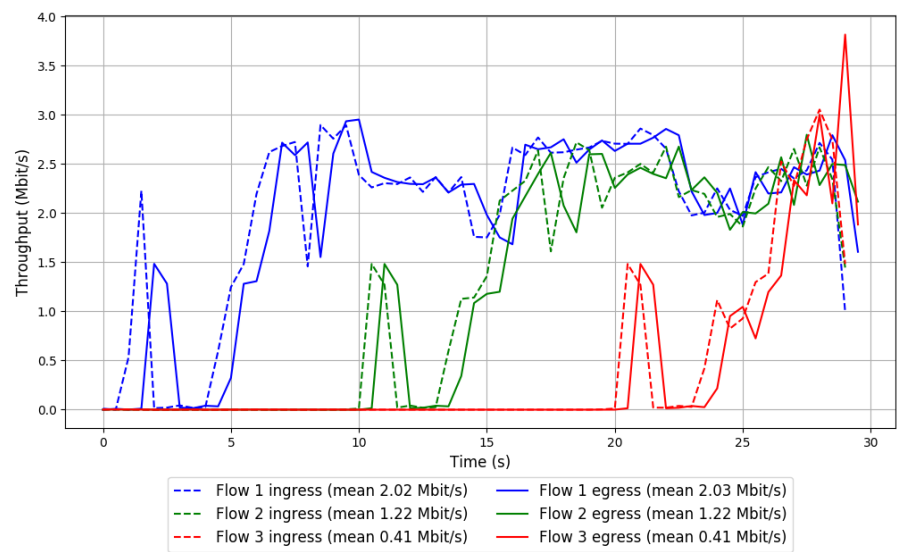


```
Run 1: Statistics of WebRTC media

Start at: 2018-06-19 10:44:58
End at: 2018-06-19 10:45:28
Local clock offset: 0.284 ms
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2018-06-19 17:00:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.64 Mbit/s
95th percentile per-packet one-way delay: 136.823 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 136.688 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 136.876 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 136.759 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-06-19 11:09:59

End at: 2018-06-19 11:10:29

Local clock offset: 0.553 ms

Remote clock offset: 0.085 ms

Below is generated by plot.py at 2018-06-19 17:00:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.24 Mbit/s

95th percentile per-packet one-way delay: 136.533 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 136.515 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.07 Mbit/s

95th percentile per-packet one-way delay: 135.815 ms

Loss rate: 0.00%

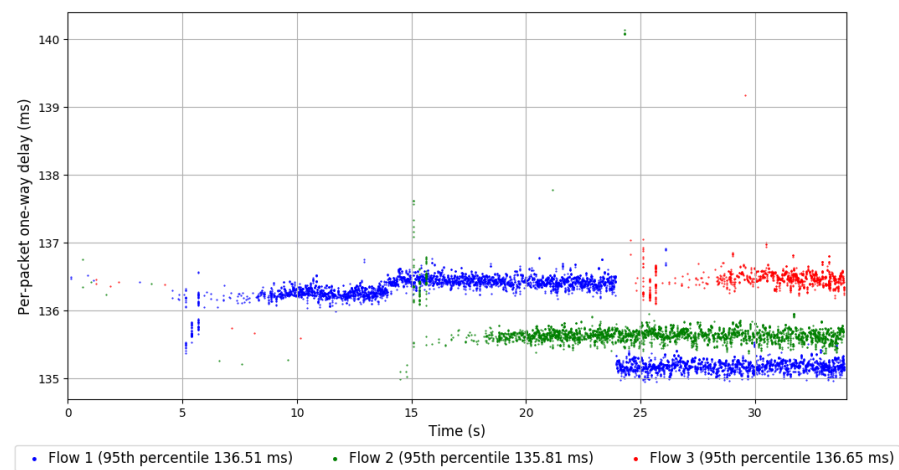
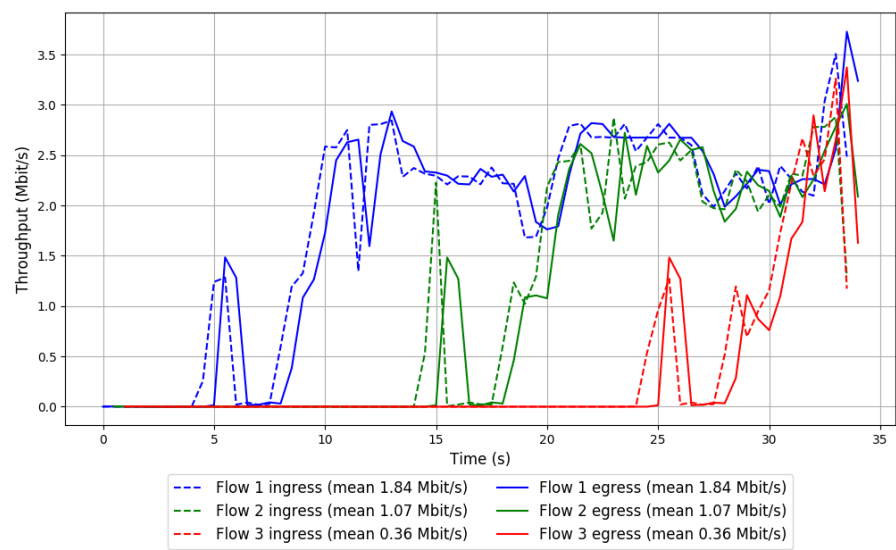
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 136.649 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-06-19 11:34:45

End at: 2018-06-19 11:35:15

Local clock offset: -0.034 ms

Remote clock offset: 0.575 ms

Below is generated by plot.py at 2018-06-19 17:00:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.19 Mbit/s

95th percentile per-packet one-way delay: 137.525 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 137.368 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.07 Mbit/s

95th percentile per-packet one-way delay: 137.582 ms

Loss rate: 0.00%

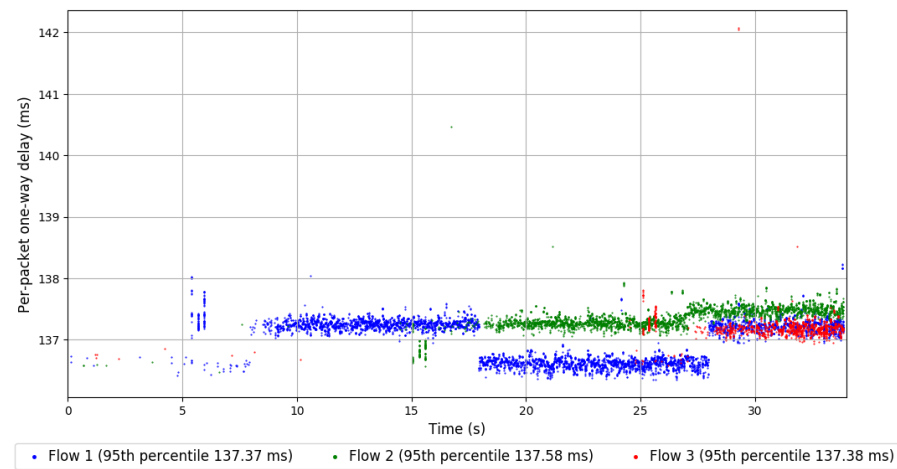
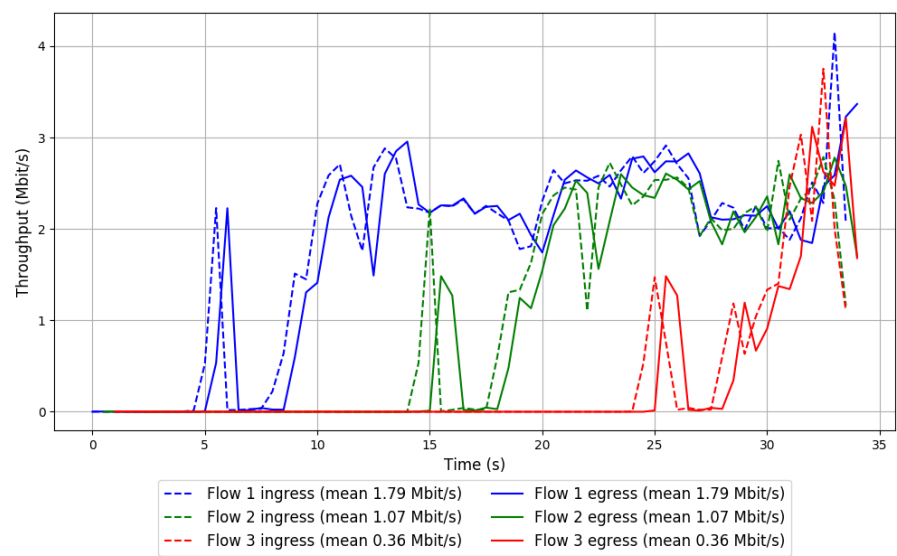
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 137.375 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

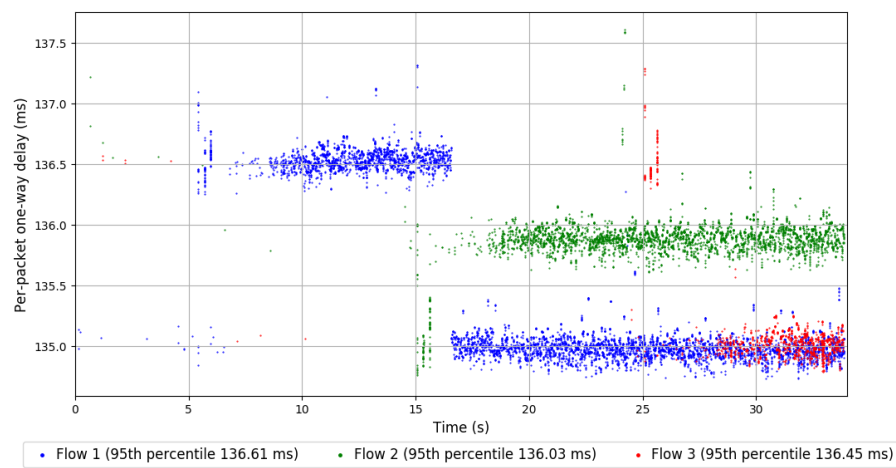
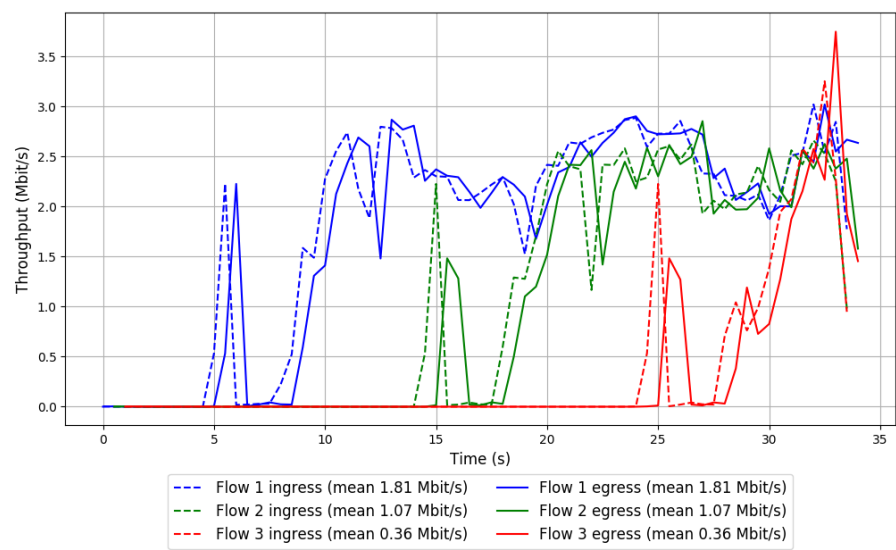


Run 4: Statistics of WebRTC media

Start at: 2018-06-19 11:59:37
End at: 2018-06-19 12:00:07
Local clock offset: -0.202 ms
Remote clock offset: -0.428 ms

Below is generated by plot.py at 2018-06-19 17:00:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.21 Mbit/s
95th percentile per-packet one-way delay: 136.580 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.81 Mbit/s
95th percentile per-packet one-way delay: 136.606 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.07 Mbit/s
95th percentile per-packet one-way delay: 136.031 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 136.452 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

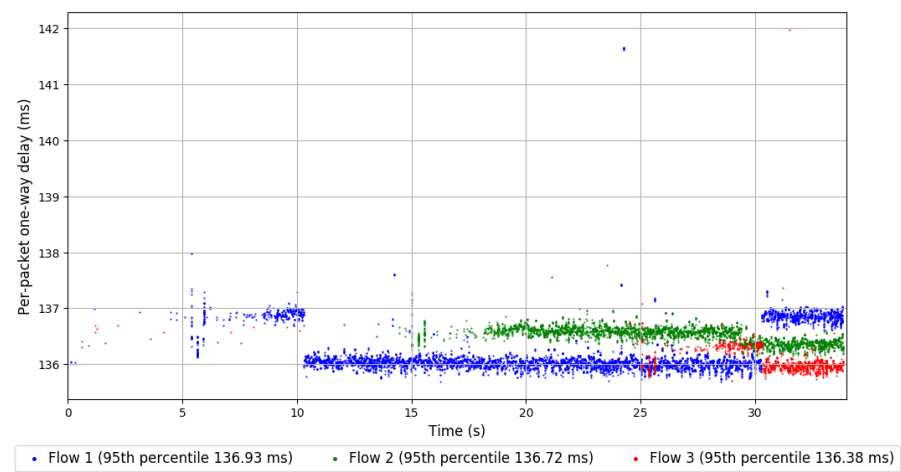
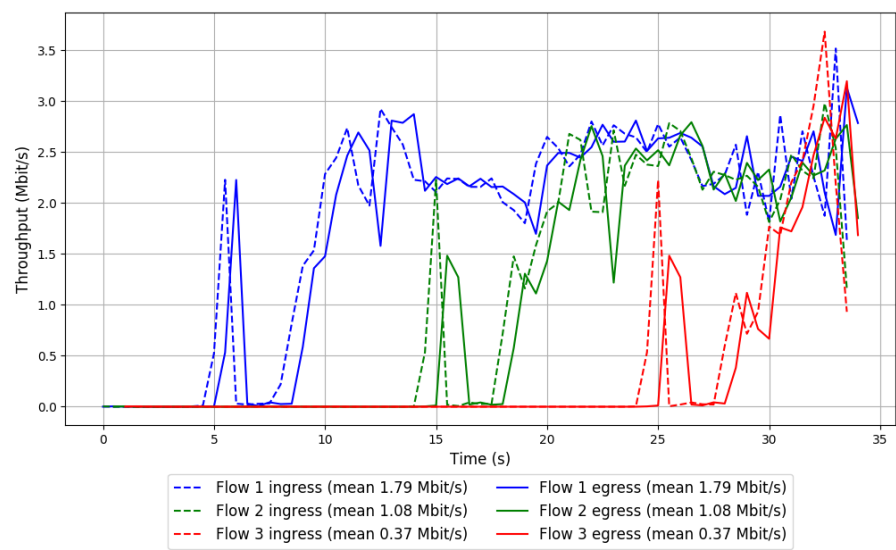


Run 5: Statistics of WebRTC media

Start at: 2018-06-19 12:24:43
End at: 2018-06-19 12:25:13
Local clock offset: 0.134 ms
Remote clock offset: -0.005 ms

Below is generated by plot.py at 2018-06-19 17:00:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.22 Mbit/s
95th percentile per-packet one-way delay: 136.890 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 136.930 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.08 Mbit/s
95th percentile per-packet one-way delay: 136.716 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 136.383 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-06-19 12:49:42

End at: 2018-06-19 12:50:12

Local clock offset: -0.256 ms

Remote clock offset: 0.047 ms

Below is generated by plot.py at 2018-06-19 17:00:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.21 Mbit/s

95th percentile per-packet one-way delay: 136.891 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 136.902 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.09 Mbit/s

95th percentile per-packet one-way delay: 136.864 ms

Loss rate: 0.00%

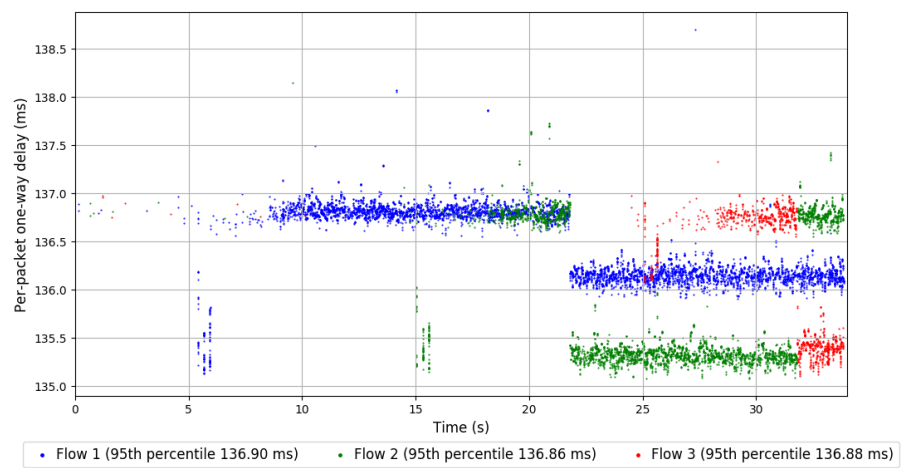
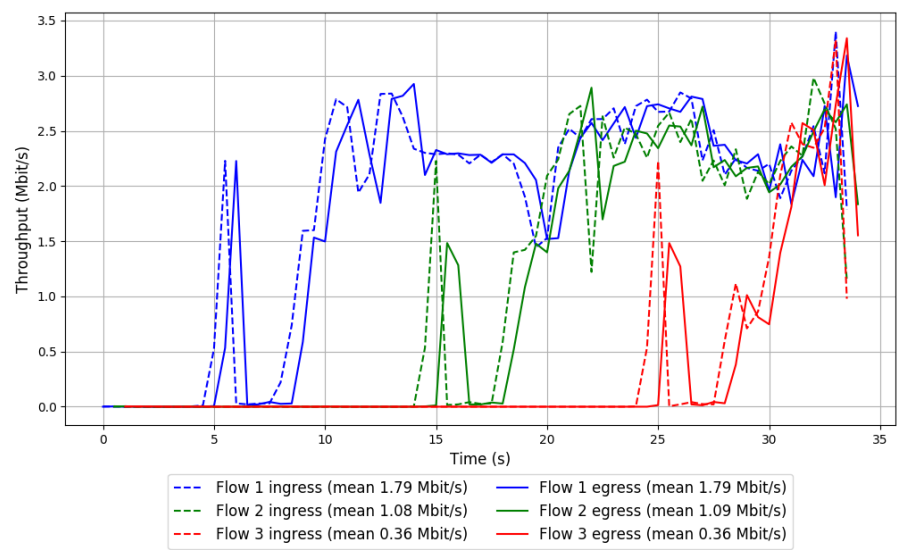
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 136.885 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-06-19 13:14:33

End at: 2018-06-19 13:15:03

Local clock offset: -0.139 ms

Remote clock offset: 0.159 ms

Below is generated by plot.py at 2018-06-19 17:00:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.36 Mbit/s

95th percentile per-packet one-way delay: 136.827 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 136.850 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.09 Mbit/s

95th percentile per-packet one-way delay: 136.757 ms

Loss rate: 0.00%

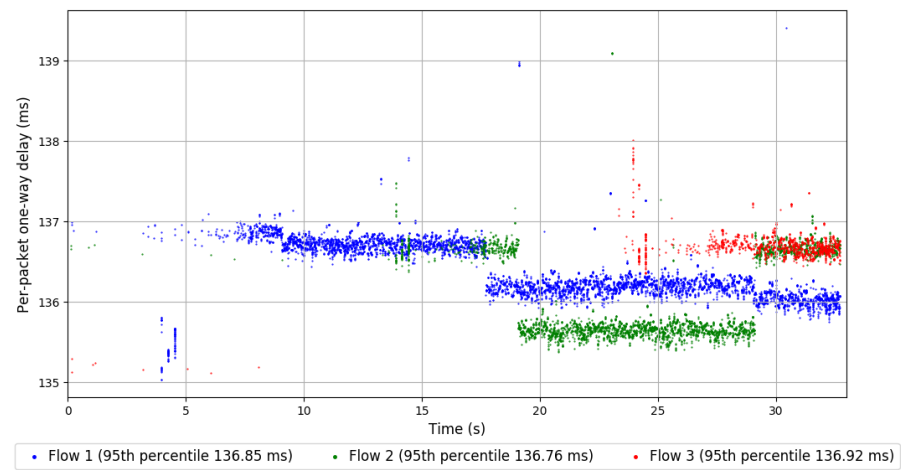
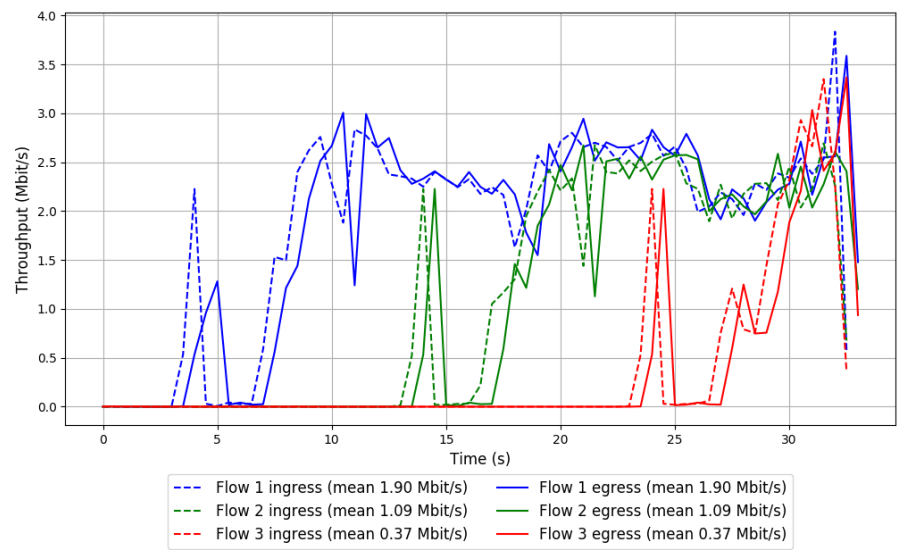
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.916 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

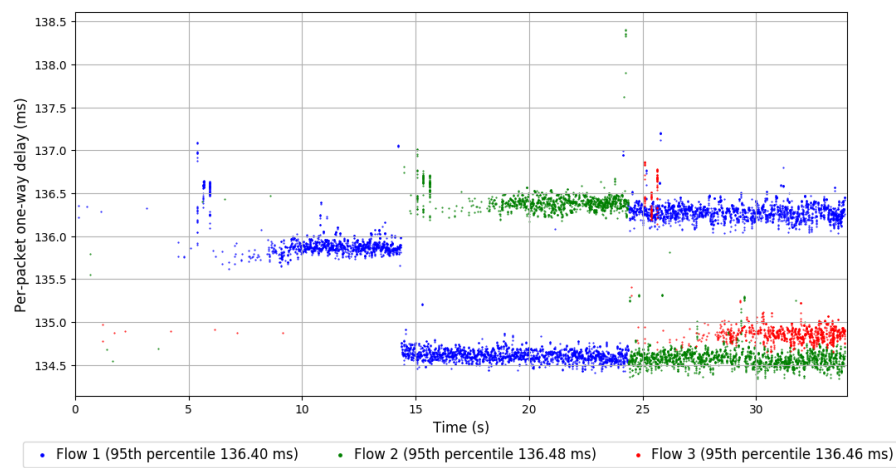
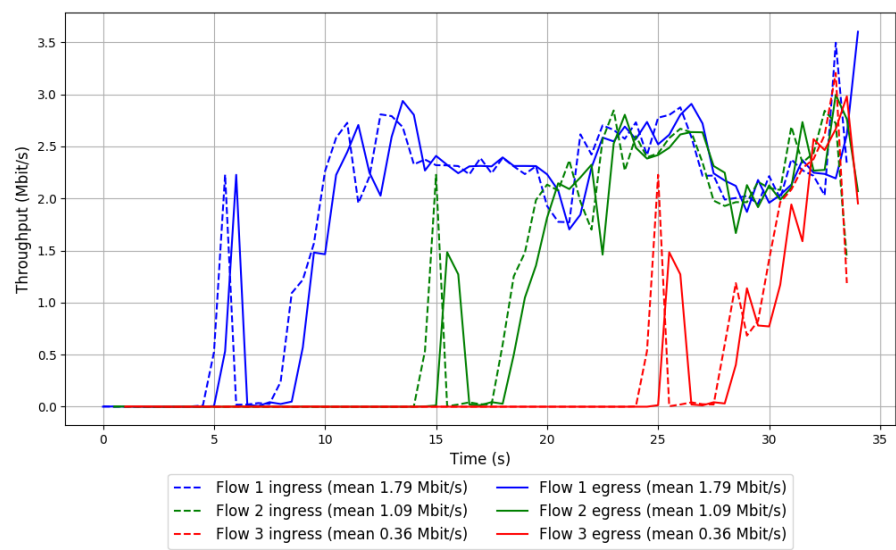


Run 8: Statistics of WebRTC media

Start at: 2018-06-19 13:39:09
End at: 2018-06-19 13:39:39
Local clock offset: -0.167 ms
Remote clock offset: -0.373 ms

Below is generated by plot.py at 2018-06-19 17:00:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.21 Mbit/s
95th percentile per-packet one-way delay: 136.448 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 136.400 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.09 Mbit/s
95th percentile per-packet one-way delay: 136.482 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 136.456 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-06-19 14:04:18

End at: 2018-06-19 14:04:48

Local clock offset: 0.067 ms

Remote clock offset: 0.053 ms

Below is generated by plot.py at 2018-06-19 17:00:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.19 Mbit/s

95th percentile per-packet one-way delay: 136.830 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 136.845 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 136.665 ms

Loss rate: 0.00%

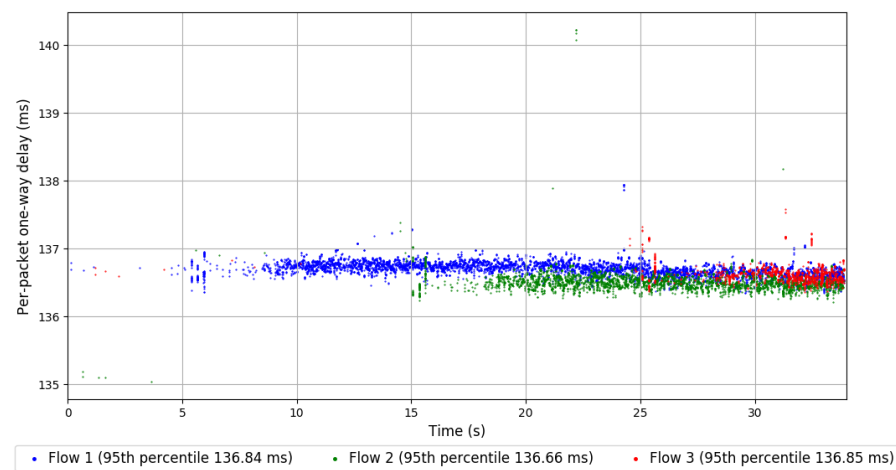
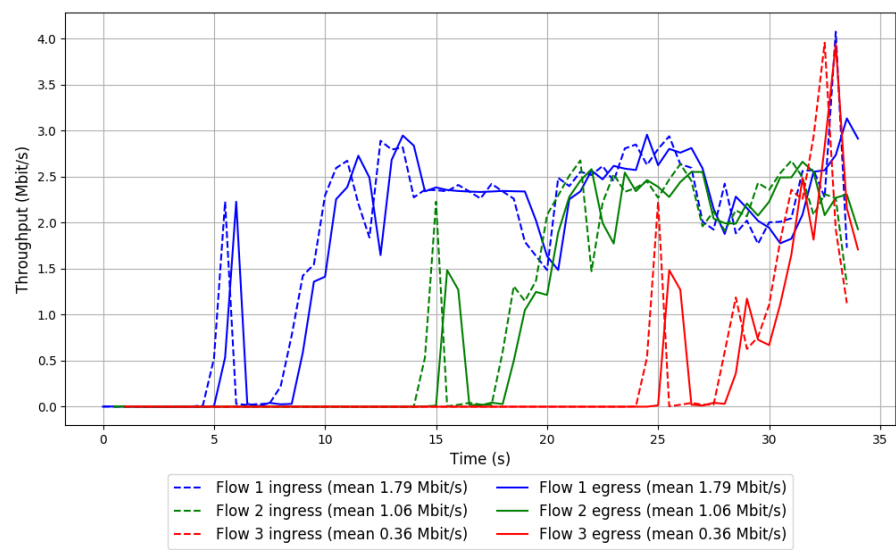
-- Flow 3:

Average throughput: 0.36 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-19 14:28:42

End at: 2018-06-19 14:29:12

Local clock offset: -0.067 ms

Remote clock offset: 0.074 ms

Below is generated by plot.py at 2018-06-19 17:00:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.21 Mbit/s

95th percentile per-packet one-way delay: 136.753 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 136.728 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.09 Mbit/s

95th percentile per-packet one-way delay: 136.298 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 136.846 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

