

Pantheon Report

Generated at 2019-02-11 21:56:46 (UTC).

Data path: GCE Tokyo on **ens4** (*local*) → GCE London on **ens4** (*remote*).

Repeated the test of 21 congestion control schemes 5 times.

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

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

System info:

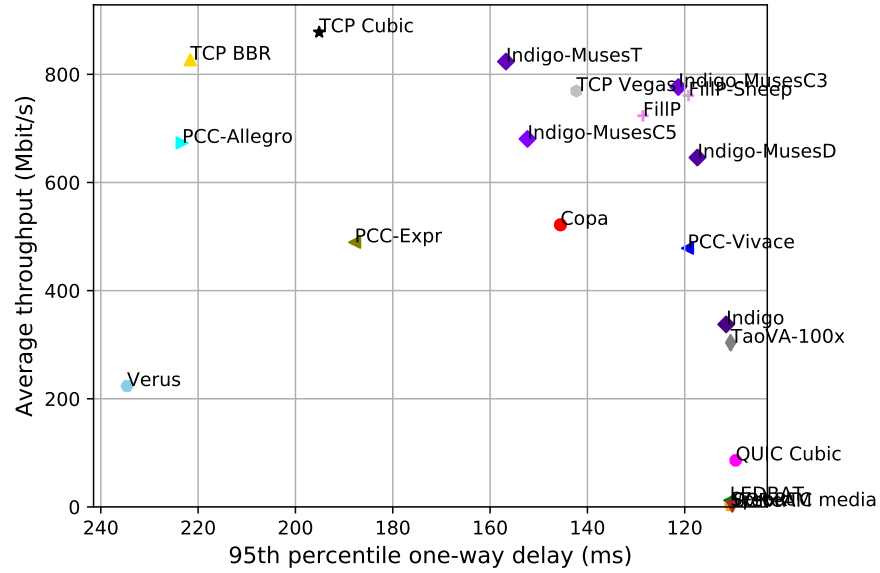
```
Linux 4.15.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

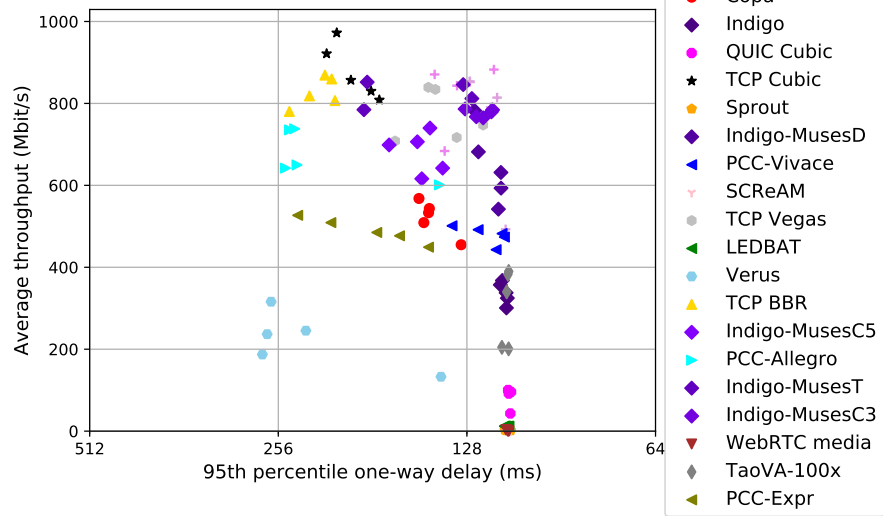
```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf5e58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
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-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
```

third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from GCE Tokyo to GCE London, 5 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE Tokyo to GCE London, 5 runs of 30s each per scheme
3 flows with 10s interval between flows



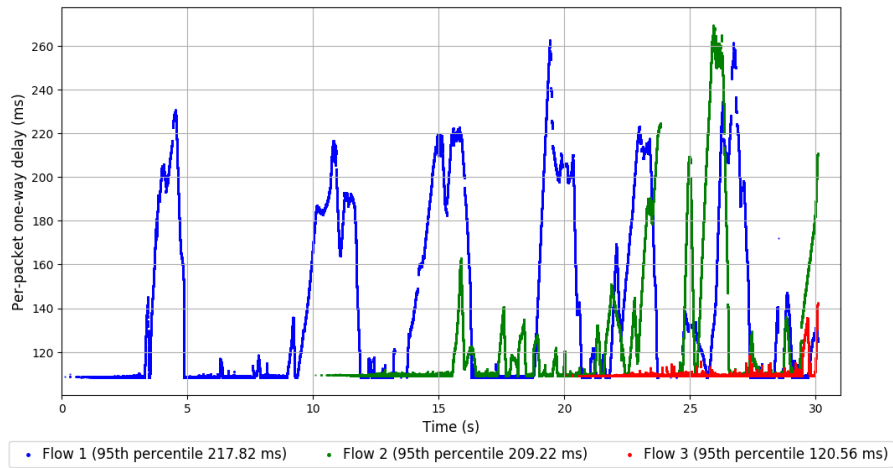
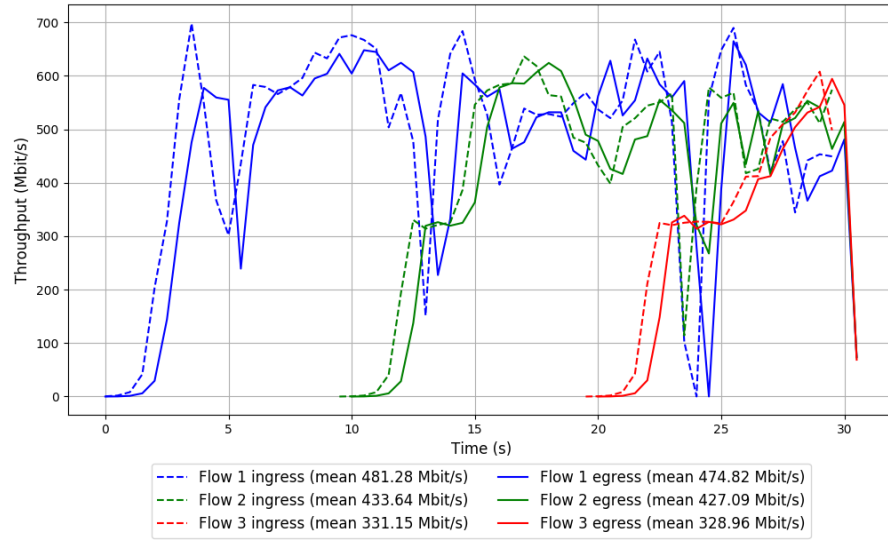
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	442.69	416.15	321.85	213.55	222.70	145.00	1.35	2.34	0.60
Copa	5	276.55	255.67	225.37	134.41	151.34	147.85	0.01	0.03	0.05
TCP Cubic	5	490.85	412.93	336.90	183.74	190.53	158.62	0.17	0.15	0.33
FillP	5	446.12	292.67	250.58	131.31	112.84	113.30	0.12	0.02	0.04
FillP-Sheep	5	463.30	324.28	246.61	122.35	113.75	112.67	0.04	0.00	0.01
Indigo	5	196.14	145.55	140.88	111.30	111.05	112.21	0.00	0.00	0.02
Indigo-MusesC3	5	459.58	379.25	281.96	123.68	122.50	114.14	0.02	0.00	0.03
Indigo-MusesC5	5	420.59	347.00	136.46	158.63	140.72	110.80	0.02	0.07	0.02
Indigo-MusesD	5	389.85	335.56	150.84	120.36	113.92	111.44	0.01	0.01	0.00
Indigo-MusesT	4	496.99	410.23	217.50	161.87	122.68	114.62	0.15	0.01	0.00
LEDBAT	5	7.83	5.20	2.54	110.76	110.61	110.16	0.00	0.00	0.00
PCC-Allegro	5	381.85	312.52	254.98	219.63	198.67	211.62	5.26	4.04	2.37
PCC-Expr	5	282.89	231.94	158.30	186.70	171.02	136.58	1.24	1.75	0.02
QUIC Cubic	5	43.79	44.38	39.73	109.54	108.93	109.30	0.00	0.00	0.00
SCReAM	5	0.22	0.22	0.22	110.09	110.04	109.81	0.00	0.00	0.00
Sprout	5	0.94	1.73	0.69	110.52	110.16	110.06	0.00	0.00	0.00
TaoVA-100x	5	126.51	193.58	144.84	109.82	110.40	110.11	0.00	0.00	0.00
TCP Vegas	5	438.35	345.37	303.27	130.08	129.87	150.25	0.08	0.00	0.12
Verus	5	152.94	77.94	59.01	226.30	208.40	165.66	5.54	1.60	1.52
PCC-Vivace	5	294.76	189.99	173.62	124.70	110.83	122.29	0.00	0.01	0.01
WebRTC media	5	0.80	0.48	0.19	109.98	110.09	109.56	0.00	0.01	0.01

Run 1: Statistics of TCP BBR

Start at: 2019-02-11 16:01:21
End at: 2019-02-11 16:01:51
Local clock offset: -0.107 ms
Remote clock offset: -0.121 ms

Below is generated by plot.py at 2019-02-11 19:43:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 869.06 Mbit/s
95th percentile per-packet one-way delay: 215.707 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 474.82 Mbit/s
95th percentile per-packet one-way delay: 217.819 ms
Loss rate: 1.34%
-- Flow 2:
Average throughput: 427.09 Mbit/s
95th percentile per-packet one-way delay: 209.222 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 328.96 Mbit/s
95th percentile per-packet one-way delay: 120.557 ms
Loss rate: 0.66%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-02-11 16:39:22

End at: 2019-02-11 16:39:52

Local clock offset: -0.517 ms

Remote clock offset: 0.236 ms

Below is generated by plot.py at 2019-02-11 19:43:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 859.76 Mbit/s

95th percentile per-packet one-way delay: 210.399 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 458.62 Mbit/s

95th percentile per-packet one-way delay: 217.081 ms

Loss rate: 1.51%

-- Flow 2:

Average throughput: 431.24 Mbit/s

95th percentile per-packet one-way delay: 183.590 ms

Loss rate: 0.83%

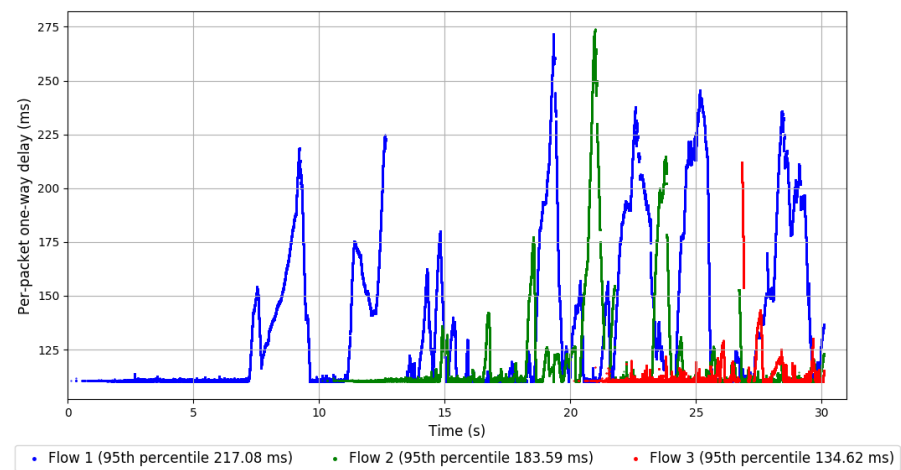
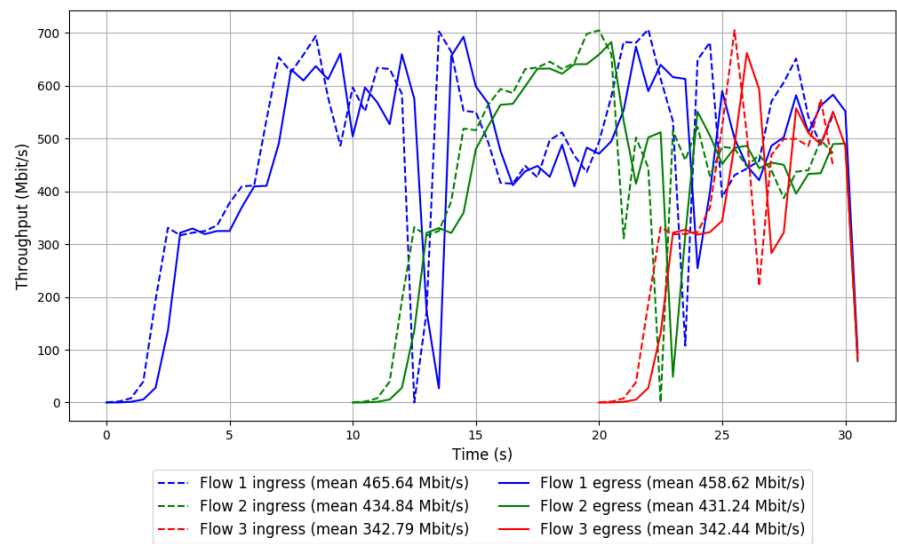
-- Flow 3:

Average throughput: 342.44 Mbit/s

95th percentile per-packet one-way delay: 134.616 ms

Loss rate: 0.11%

Run 2: Report of TCP BBR — Data Link

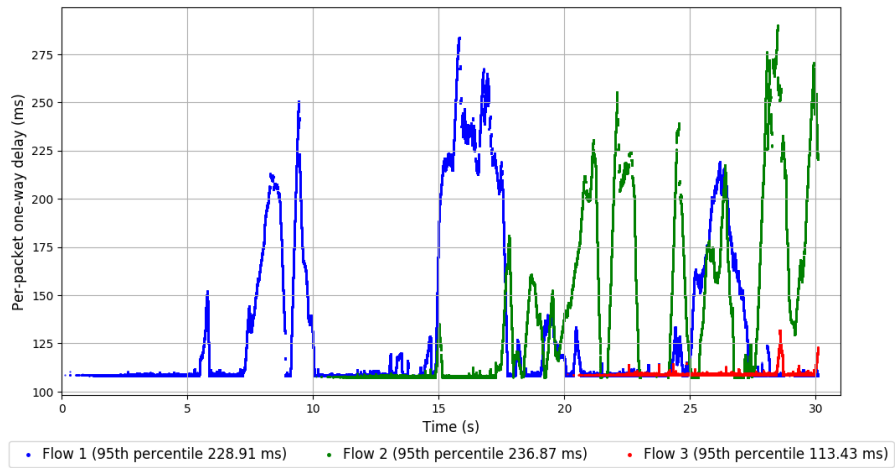
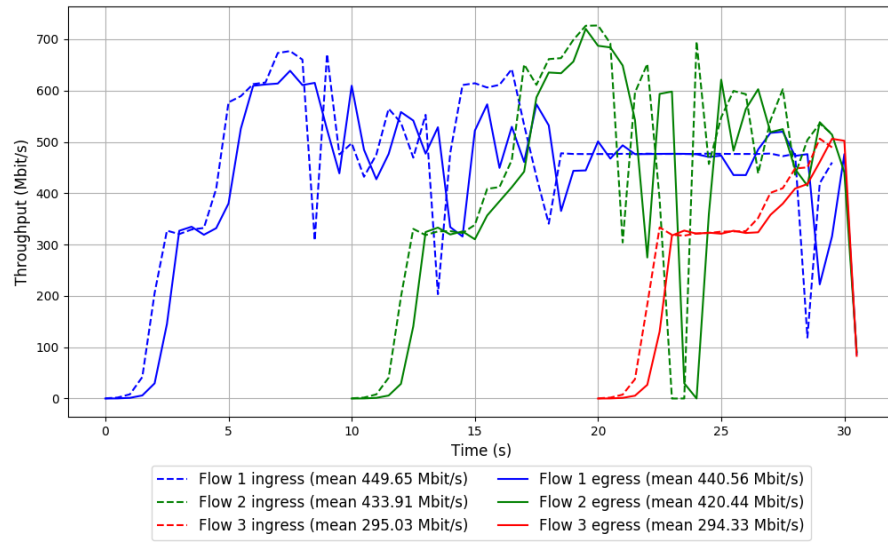


Run 3: Statistics of TCP BBR

Start at: 2019-02-11 17:17:47
End at: 2019-02-11 17:18:17
Local clock offset: 0.808 ms
Remote clock offset: -0.131 ms

Below is generated by plot.py at 2019-02-11 19:43:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 818.44 Mbit/s
95th percentile per-packet one-way delay: 228.313 ms
Loss rate: 2.18%
-- Flow 1:
Average throughput: 440.56 Mbit/s
95th percentile per-packet one-way delay: 228.914 ms
Loss rate: 2.02%
-- Flow 2:
Average throughput: 420.44 Mbit/s
95th percentile per-packet one-way delay: 236.865 ms
Loss rate: 3.10%
-- Flow 3:
Average throughput: 294.33 Mbit/s
95th percentile per-packet one-way delay: 113.427 ms
Loss rate: 0.23%

Run 3: Report of TCP BBR — Data Link

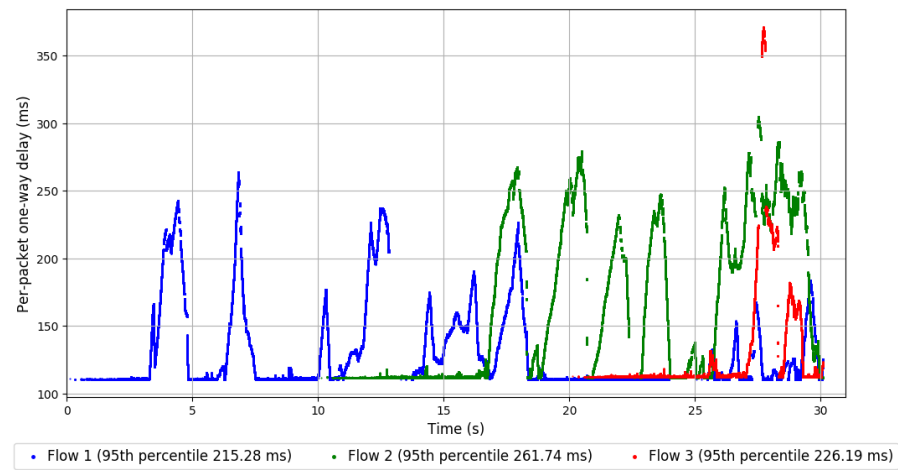
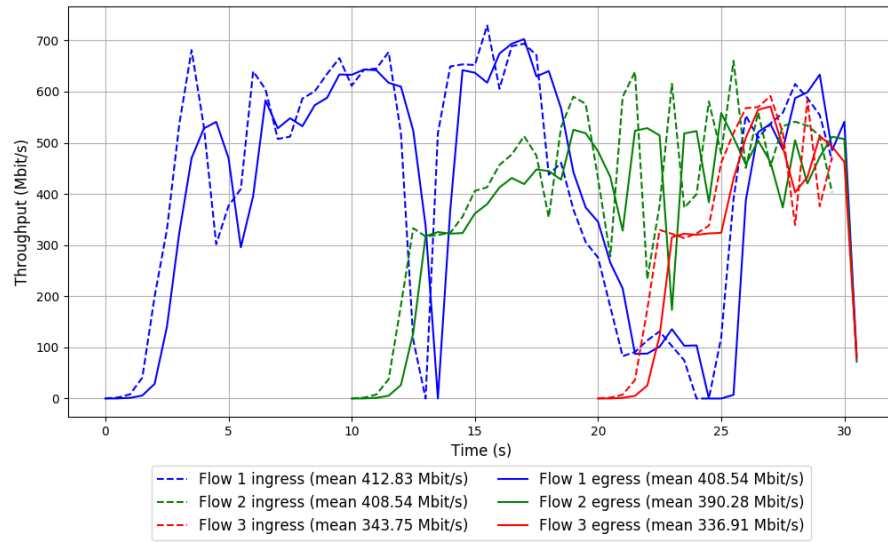


Run 4: Statistics of TCP BBR

Start at: 2019-02-11 17:55:39
End at: 2019-02-11 17:56:09
Local clock offset: -1.388 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2019-02-11 19:43:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 780.36 Mbit/s
95th percentile per-packet one-way delay: 245.788 ms
Loss rate: 2.34%
-- Flow 1:
Average throughput: 408.54 Mbit/s
95th percentile per-packet one-way delay: 215.283 ms
Loss rate: 1.04%
-- Flow 2:
Average throughput: 390.28 Mbit/s
95th percentile per-packet one-way delay: 261.736 ms
Loss rate: 4.47%
-- Flow 3:
Average throughput: 336.91 Mbit/s
95th percentile per-packet one-way delay: 226.188 ms
Loss rate: 2.00%

Run 4: Report of TCP BBR — Data Link

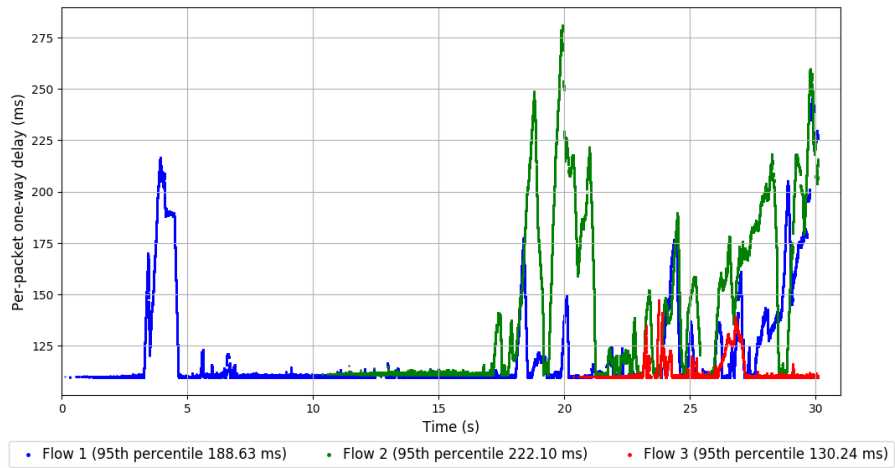
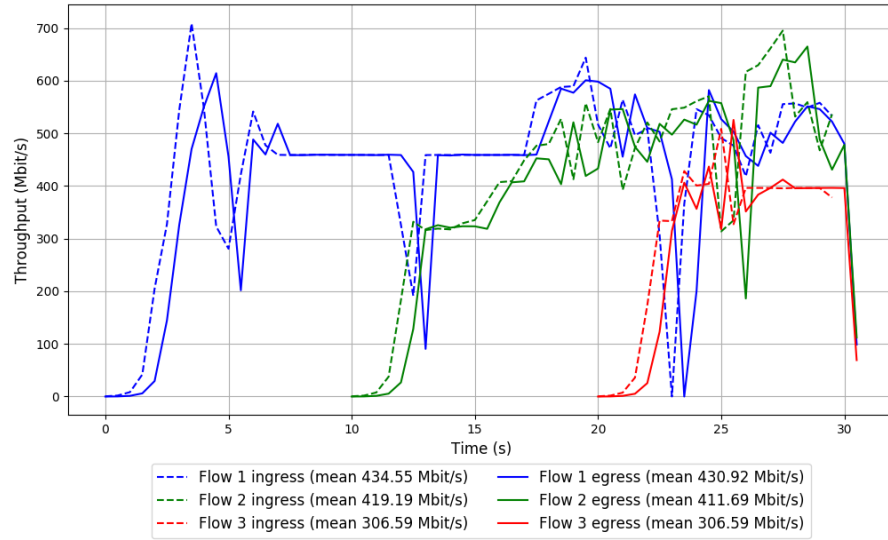


Run 5: Statistics of TCP BBR

Start at: 2019-02-11 18:34:48
End at: 2019-02-11 18:35:18
Local clock offset: -0.656 ms
Remote clock offset: -0.072 ms

Below is generated by plot.py at 2019-02-11 19:43:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 806.98 Mbit/s
95th percentile per-packet one-way delay: 207.870 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 430.92 Mbit/s
95th percentile per-packet one-way delay: 188.635 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 411.69 Mbit/s
95th percentile per-packet one-way delay: 222.099 ms
Loss rate: 1.78%
-- Flow 3:
Average throughput: 306.59 Mbit/s
95th percentile per-packet one-way delay: 130.237 ms
Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-02-11 16:26:20

End at: 2019-02-11 16:26:50

Local clock offset: -0.244 ms

Remote clock offset: 0.271 ms

Below is generated by plot.py at 2019-02-11 19:45:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 533.24 Mbit/s

95th percentile per-packet one-way delay: 147.371 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 268.17 Mbit/s

95th percentile per-packet one-way delay: 124.154 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 276.68 Mbit/s

95th percentile per-packet one-way delay: 150.048 ms

Loss rate: 0.00%

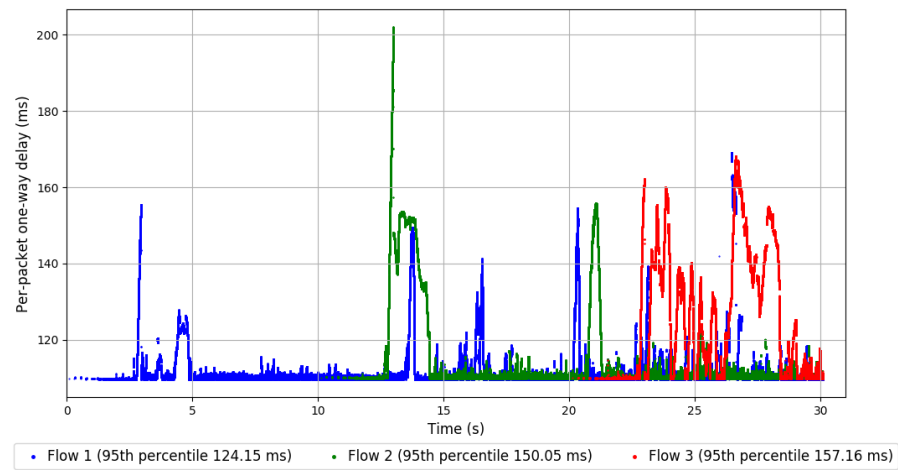
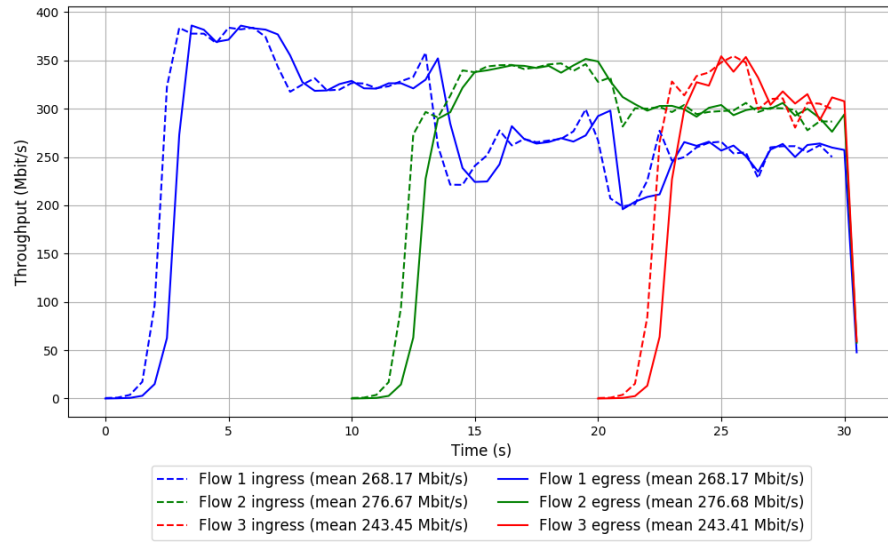
-- Flow 3:

Average throughput: 243.41 Mbit/s

95th percentile per-packet one-way delay: 157.159 ms

Loss rate: 0.01%

Run 1: Report of Copa — Data Link

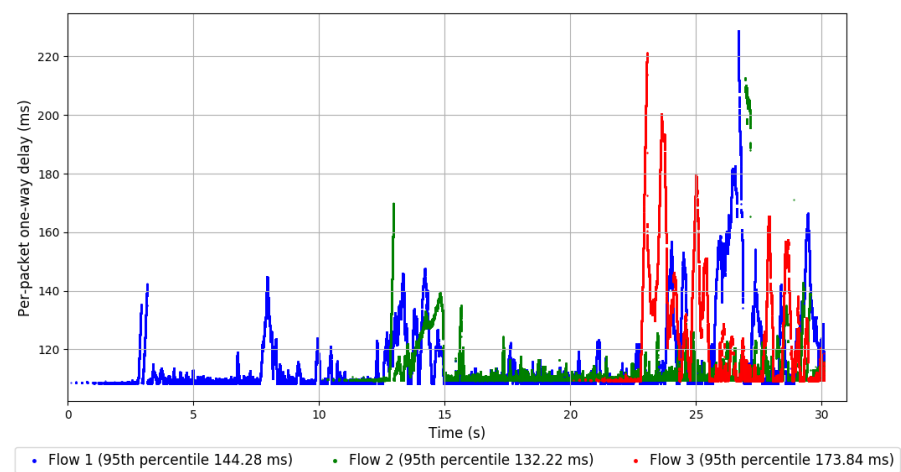
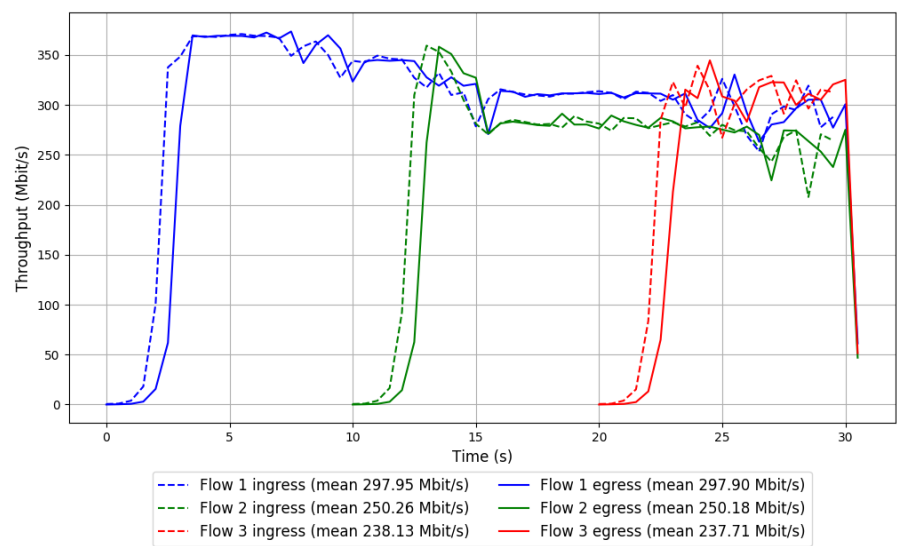


Run 2: Statistics of Copa

Start at: 2019-02-11 17:04:58
End at: 2019-02-11 17:05:28
Local clock offset: -0.193 ms
Remote clock offset: -0.149 ms

Below is generated by plot.py at 2019-02-11 19:46:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 543.45 Mbit/s
95th percentile per-packet one-way delay: 146.950 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 297.90 Mbit/s
95th percentile per-packet one-way delay: 144.277 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 250.18 Mbit/s
95th percentile per-packet one-way delay: 132.215 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 237.71 Mbit/s
95th percentile per-packet one-way delay: 173.842 ms
Loss rate: 0.17%

Run 2: Report of Copa — Data Link

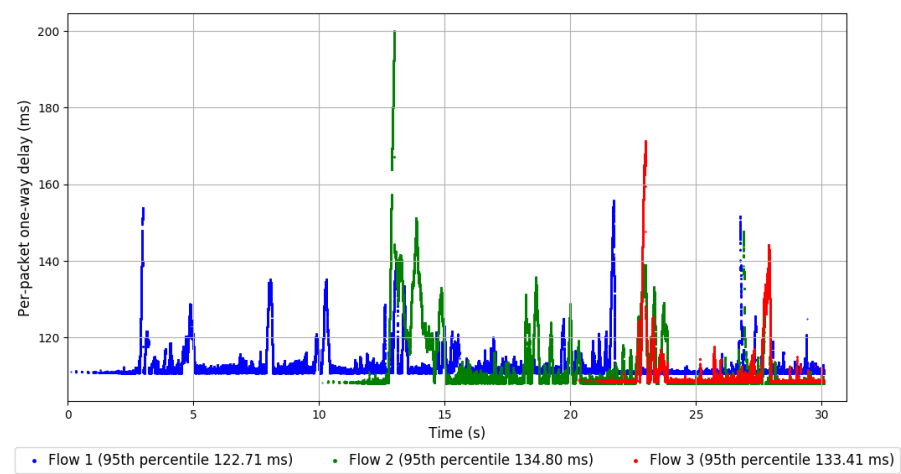
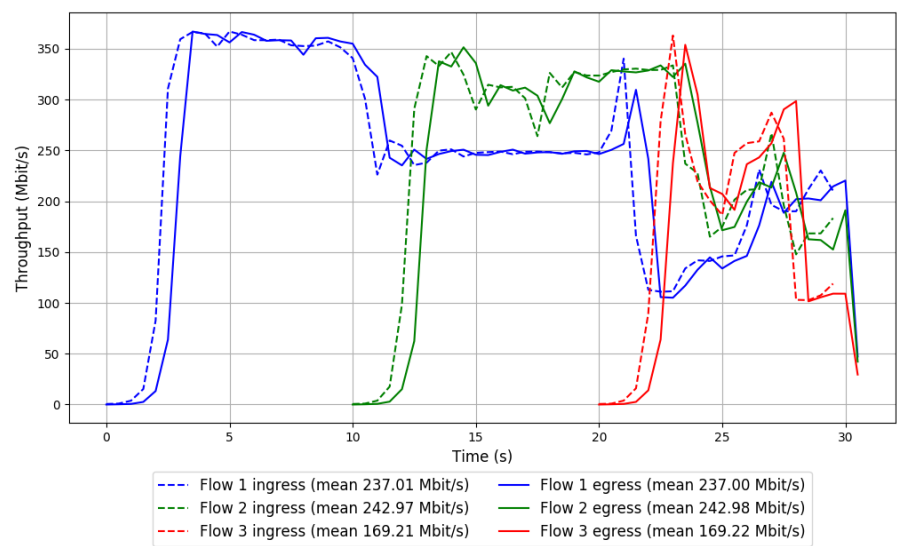


Run 3: Statistics of Copa

Start at: 2019-02-11 17:42:52
End at: 2019-02-11 17:43:22
Local clock offset: 0.502 ms
Remote clock offset: -0.036 ms

Below is generated by plot.py at 2019-02-11 19:46:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 455.01 Mbit/s
95th percentile per-packet one-way delay: 130.736 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 237.00 Mbit/s
95th percentile per-packet one-way delay: 122.708 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 242.98 Mbit/s
95th percentile per-packet one-way delay: 134.798 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 169.22 Mbit/s
95th percentile per-packet one-way delay: 133.412 ms
Loss rate: 0.00%

Run 3: Report of Copa — Data Link

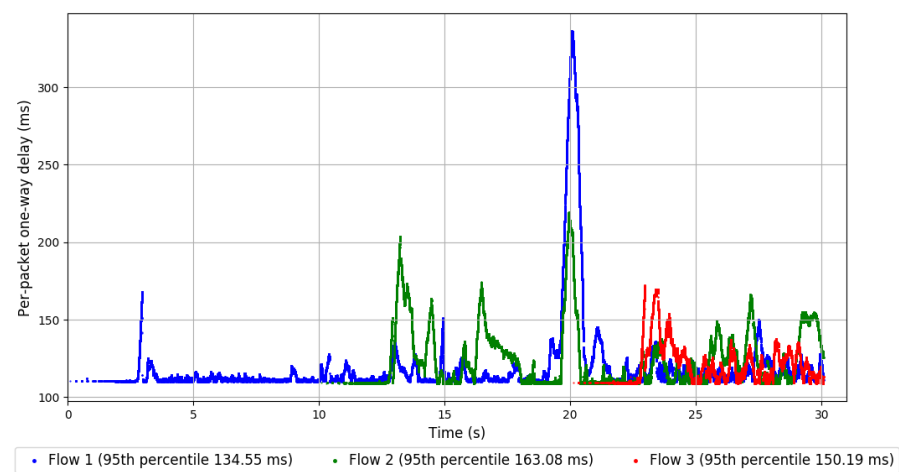
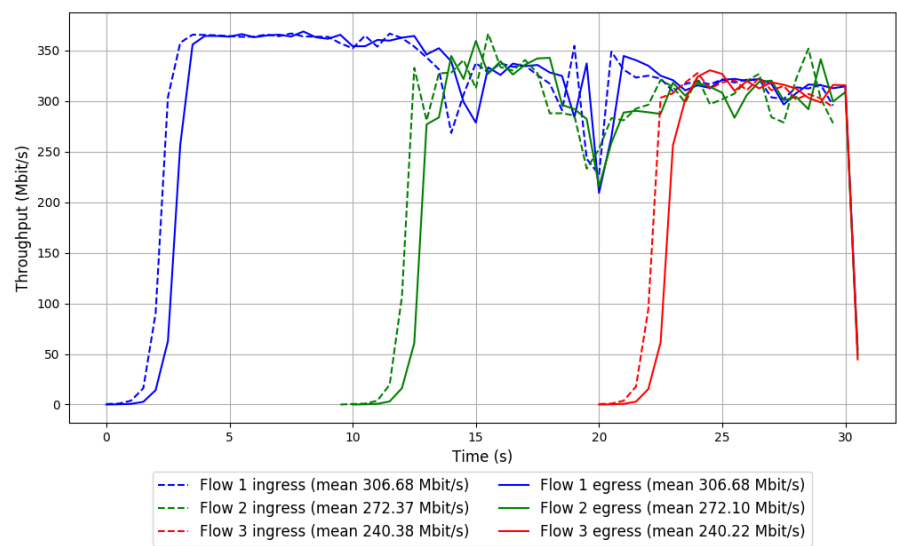


Run 4: Statistics of Copa

Start at: 2019-02-11 18:21:47
End at: 2019-02-11 18:22:17
Local clock offset: -0.778 ms
Remote clock offset: -0.145 ms

```
# Below is generated by plot.py at 2019-02-11 20:02:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 567.94 Mbit/s
95th percentile per-packet one-way delay: 152.672 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 306.68 Mbit/s
95th percentile per-packet one-way delay: 134.547 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 272.10 Mbit/s
95th percentile per-packet one-way delay: 163.077 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 240.22 Mbit/s
95th percentile per-packet one-way delay: 150.188 ms
Loss rate: 0.05%
```

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-02-11 19:00:36

End at: 2019-02-11 19:01:06

Local clock offset: -0.149 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2019-02-11 20:02:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 509.01 Mbit/s

95th percentile per-packet one-way delay: 149.958 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 273.02 Mbit/s

95th percentile per-packet one-way delay: 146.346 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 236.39 Mbit/s

95th percentile per-packet one-way delay: 176.586 ms

Loss rate: 0.00%

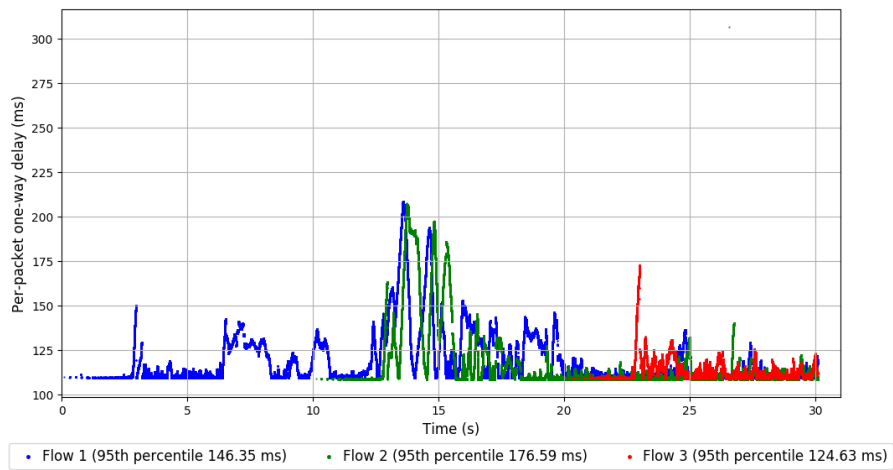
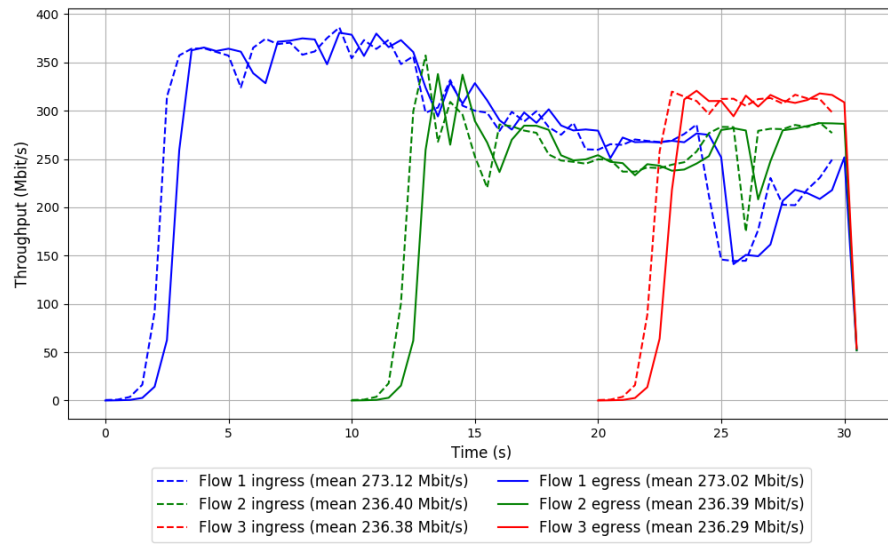
-- Flow 3:

Average throughput: 236.29 Mbit/s

95th percentile per-packet one-way delay: 124.630 ms

Loss rate: 0.03%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-02-11 16:35:22

End at: 2019-02-11 16:35:52

Local clock offset: -1.405 ms

Remote clock offset: 0.245 ms

Below is generated by plot.py at 2019-02-11 20:02:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 808.55 Mbit/s

95th percentile per-packet one-way delay: 176.579 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 514.08 Mbit/s

95th percentile per-packet one-way delay: 182.869 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 325.37 Mbit/s

95th percentile per-packet one-way delay: 123.125 ms

Loss rate: 0.00%

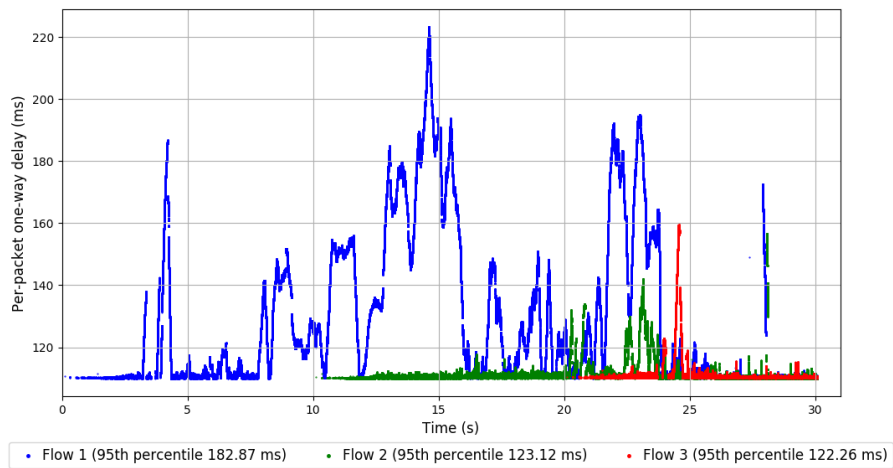
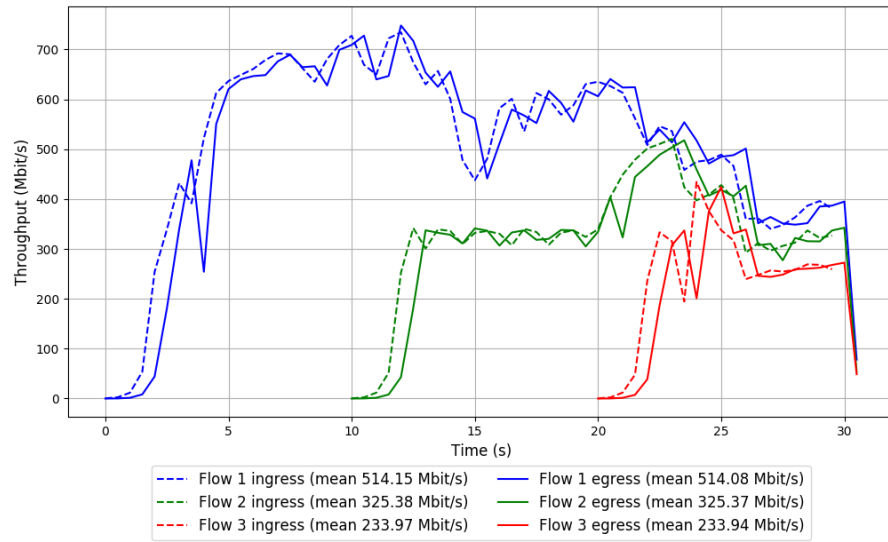
-- Flow 3:

Average throughput: 233.94 Mbit/s

95th percentile per-packet one-way delay: 122.256 ms

Loss rate: 0.01%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-02-11 17:13:52

End at: 2019-02-11 17:14:22

Local clock offset: 0.771 ms

Remote clock offset: -0.16 ms

Below is generated by plot.py at 2019-02-11 20:02:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 972.33 Mbit/s

95th percentile per-packet one-way delay: 206.547 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 500.27 Mbit/s

95th percentile per-packet one-way delay: 203.711 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 504.70 Mbit/s

95th percentile per-packet one-way delay: 215.706 ms

Loss rate: 0.34%

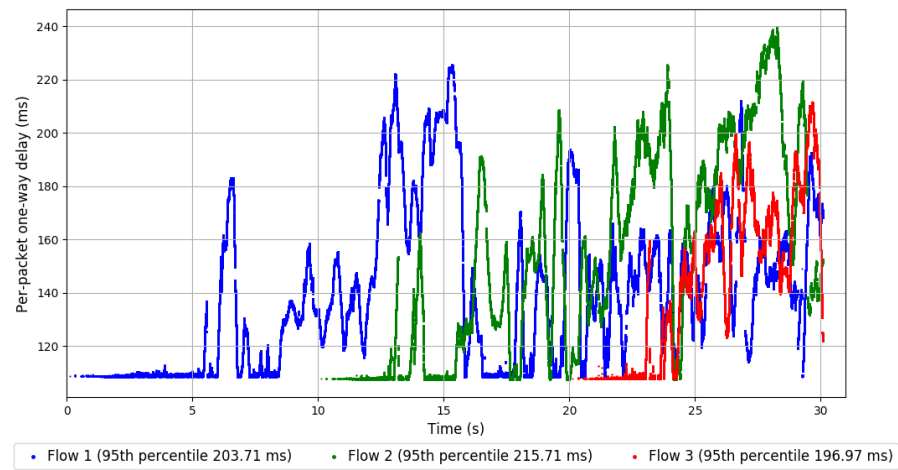
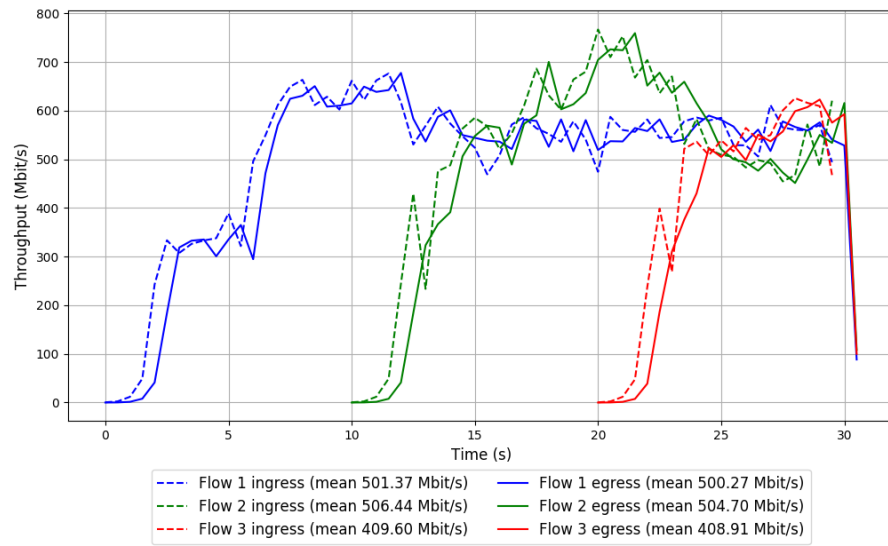
-- Flow 3:

Average throughput: 408.91 Mbit/s

95th percentile per-packet one-way delay: 196.966 ms

Loss rate: 0.17%

Run 2: Report of TCP Cubic — Data Link

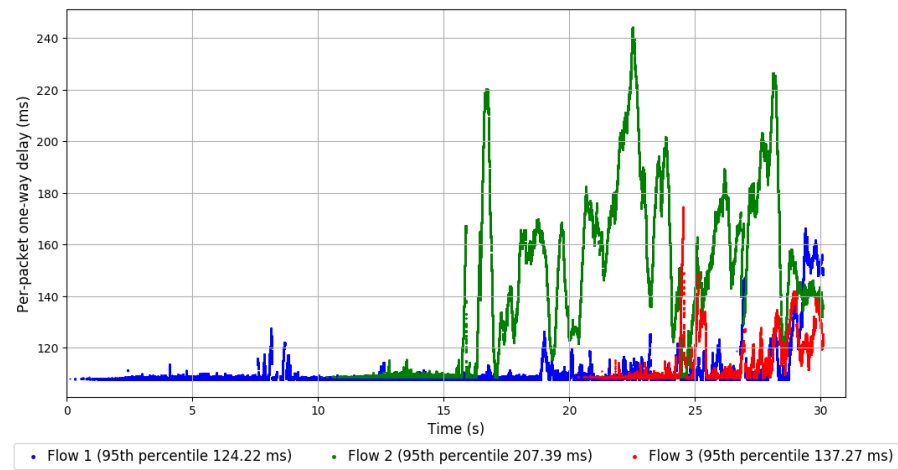
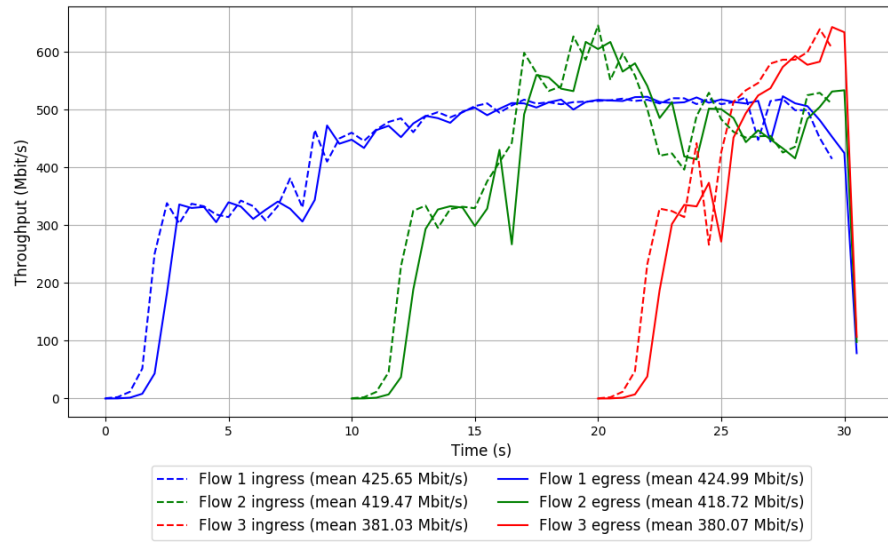


Run 3: Statistics of TCP Cubic

Start at: 2019-02-11 17:51:37
End at: 2019-02-11 17:52:07
Local clock offset: 0.604 ms
Remote clock offset: -0.019 ms

Below is generated by plot.py at 2019-02-11 20:02:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 830.06 Mbit/s
95th percentile per-packet one-way delay: 182.045 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 424.99 Mbit/s
95th percentile per-packet one-way delay: 124.215 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 418.72 Mbit/s
95th percentile per-packet one-way delay: 207.390 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 380.07 Mbit/s
95th percentile per-packet one-way delay: 137.268 ms
Loss rate: 0.25%

Run 3: Report of TCP Cubic — Data Link

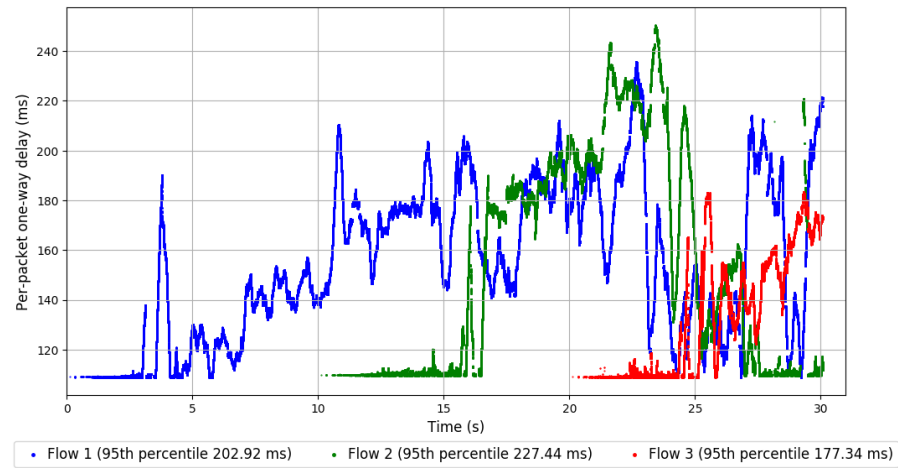
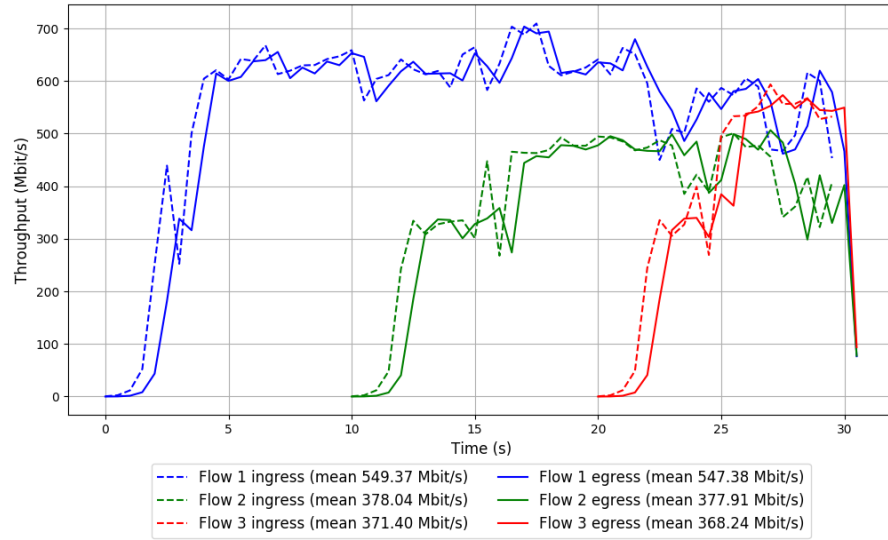


Run 4: Statistics of TCP Cubic

Start at: 2019-02-11 18:30:42
End at: 2019-02-11 18:31:12
Local clock offset: -0.817 ms
Remote clock offset: -0.114 ms

Below is generated by plot.py at 2019-02-11 20:02:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 921.41 Mbit/s
95th percentile per-packet one-way delay: 214.361 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 547.38 Mbit/s
95th percentile per-packet one-way delay: 202.917 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 377.91 Mbit/s
95th percentile per-packet one-way delay: 227.435 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 368.24 Mbit/s
95th percentile per-packet one-way delay: 177.339 ms
Loss rate: 0.85%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-02-11 19:09:24

End at: 2019-02-11 19:09:54

Local clock offset: -0.116 ms

Remote clock offset: 0.325 ms

Below is generated by plot.py at 2019-02-11 20:02:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 856.83 Mbit/s

95th percentile per-packet one-way delay: 196.075 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 467.54 Mbit/s

95th percentile per-packet one-way delay: 204.972 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 437.97 Mbit/s

95th percentile per-packet one-way delay: 178.999 ms

Loss rate: 0.21%

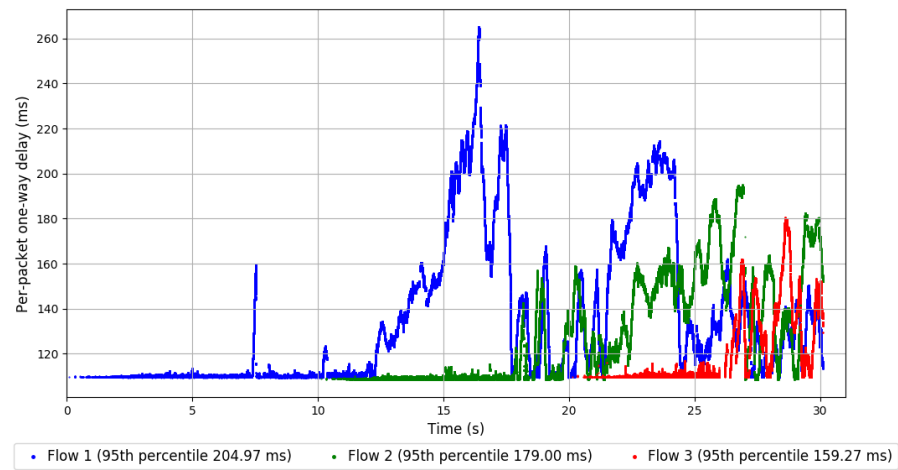
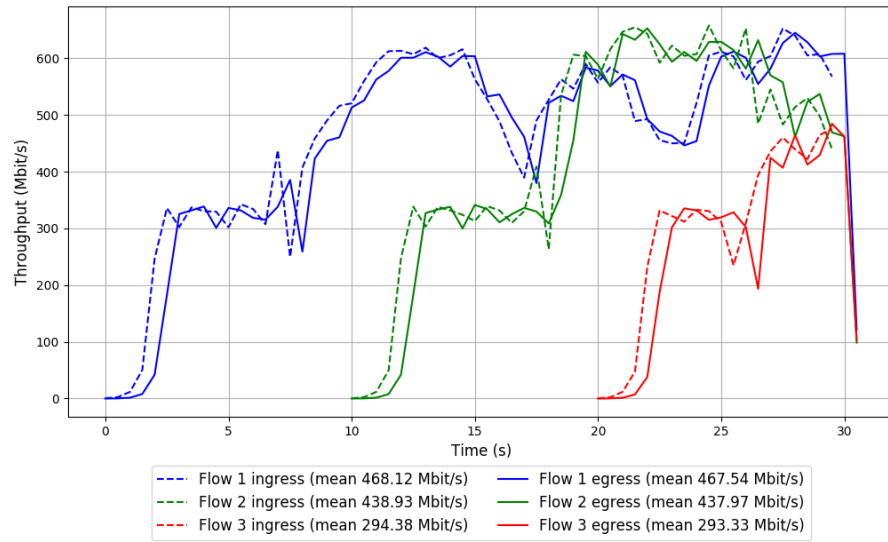
-- Flow 3:

Average throughput: 293.33 Mbit/s

95th percentile per-packet one-way delay: 159.266 ms

Loss rate: 0.36%

Run 5: Report of TCP Cubic — Data Link

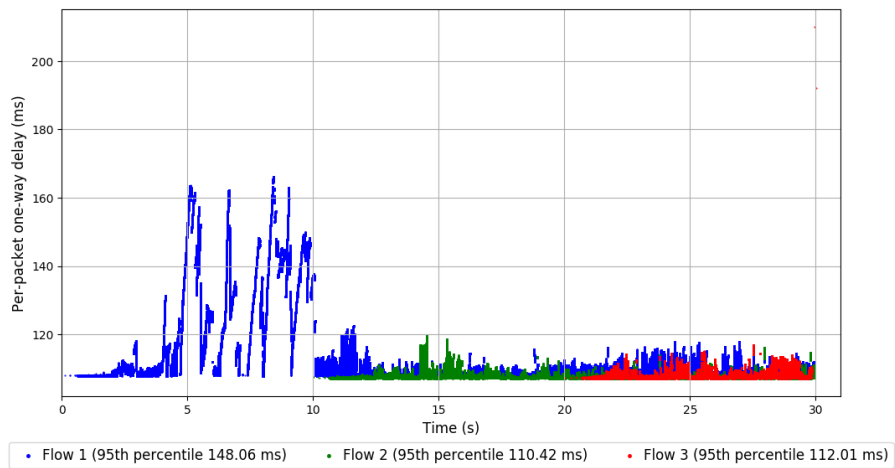
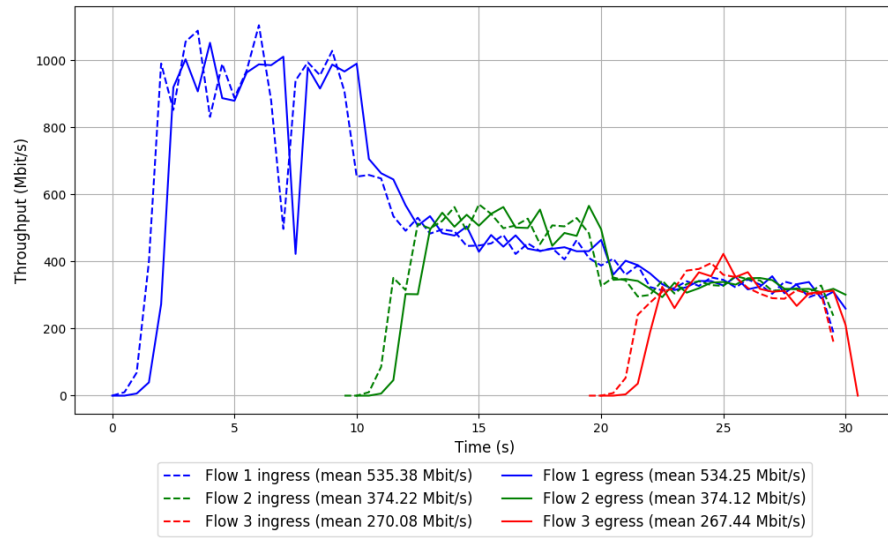


Run 1: Statistics of FillP

Start at: 2019-02-11 16:05:13
End at: 2019-02-11 16:05:43
Local clock offset: 1.152 ms
Remote clock offset: -0.047 ms

Below is generated by plot.py at 2019-02-11 20:05:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 870.74 Mbit/s
95th percentile per-packet one-way delay: 144.111 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 534.25 Mbit/s
95th percentile per-packet one-way delay: 148.058 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 374.12 Mbit/s
95th percentile per-packet one-way delay: 110.417 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 267.44 Mbit/s
95th percentile per-packet one-way delay: 112.008 ms
Loss rate: 0.18%

Run 1: Report of FillP — Data Link

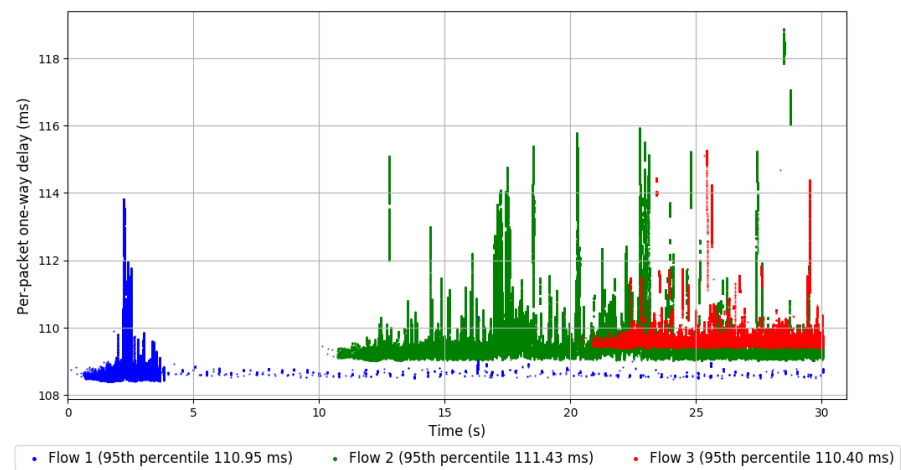
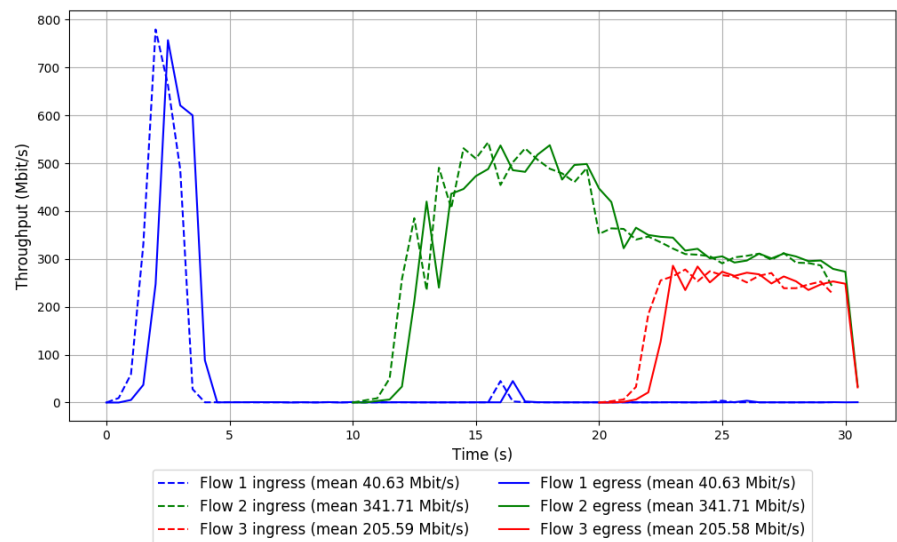


Run 2: Statistics of FillP

Start at: 2019-02-11 16:43:36
End at: 2019-02-11 16:44:06
Local clock offset: -0.217 ms
Remote clock offset: -0.135 ms

Below is generated by plot.py at 2019-02-11 20:05:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 335.80 Mbit/s
95th percentile per-packet one-way delay: 111.198 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 40.63 Mbit/s
95th percentile per-packet one-way delay: 110.952 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 341.71 Mbit/s
95th percentile per-packet one-way delay: 111.431 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 205.58 Mbit/s
95th percentile per-packet one-way delay: 110.401 ms
Loss rate: 0.00%

Run 2: Report of FillP — Data Link

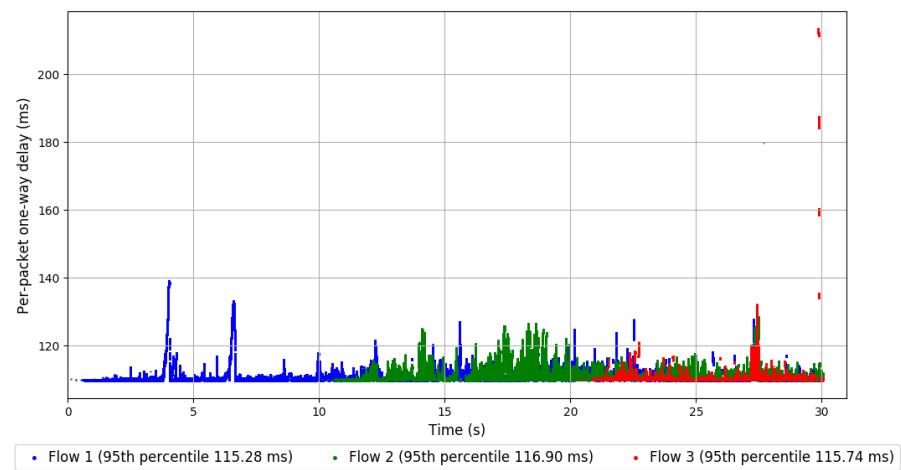
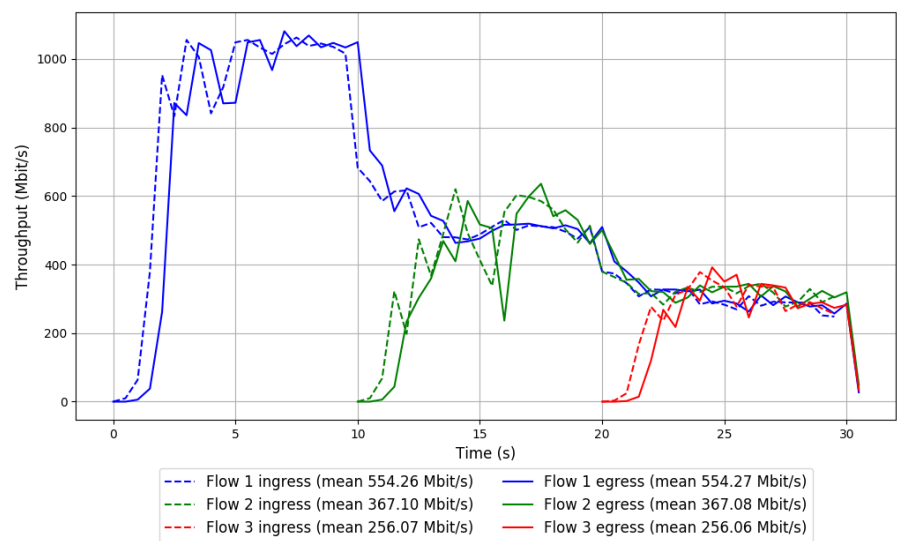


Run 3: Statistics of FillP

Start at: 2019-02-11 17:21:35
End at: 2019-02-11 17:22:05
Local clock offset: -0.612 ms
Remote clock offset: -0.188 ms

Below is generated by plot.py at 2019-02-11 20:17:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 882.63 Mbit/s
95th percentile per-packet one-way delay: 115.921 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 554.27 Mbit/s
95th percentile per-packet one-way delay: 115.281 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 367.08 Mbit/s
95th percentile per-packet one-way delay: 116.896 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 256.06 Mbit/s
95th percentile per-packet one-way delay: 115.741 ms
Loss rate: 0.01%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-02-11 17:59:53

End at: 2019-02-11 18:00:23

Local clock offset: -1.478 ms

Remote clock offset: -0.06 ms

Below is generated by plot.py at 2019-02-11 20:17:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 683.85 Mbit/s

95th percentile per-packet one-way delay: 138.920 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 549.03 Mbit/s

95th percentile per-packet one-way delay: 141.770 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 76.13 Mbit/s

95th percentile per-packet one-way delay: 112.575 ms

Loss rate: 0.00%

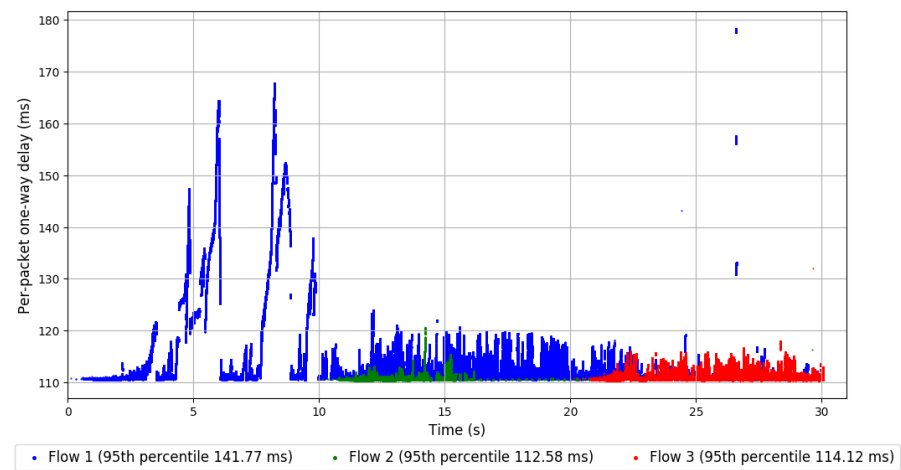
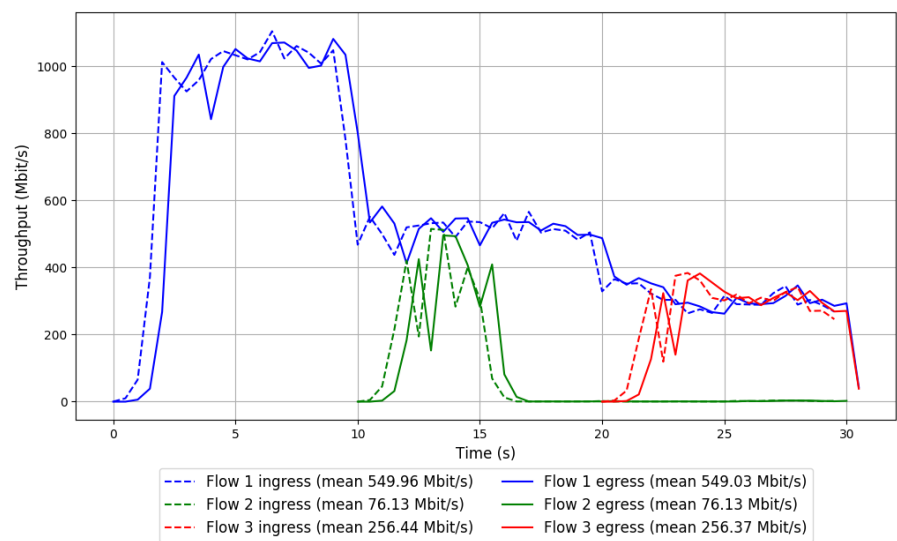
-- Flow 3:

Average throughput: 256.37 Mbit/s

95th percentile per-packet one-way delay: 114.117 ms

Loss rate: 0.01%

Run 4: Report of FillP — Data Link

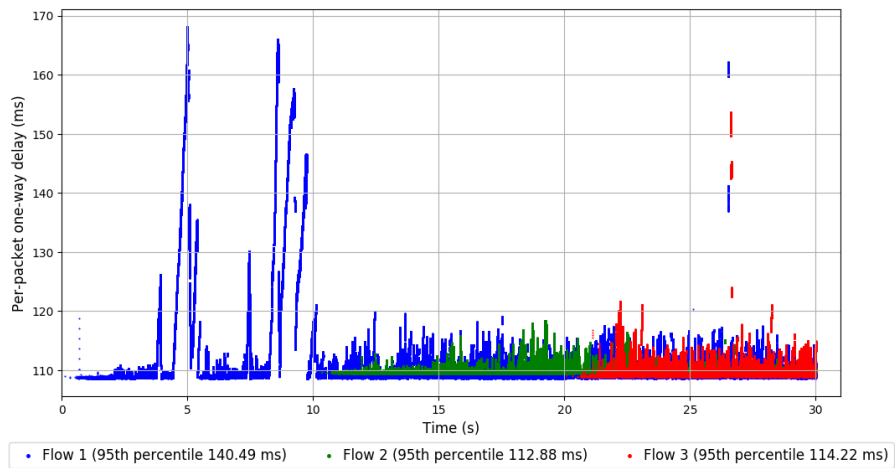
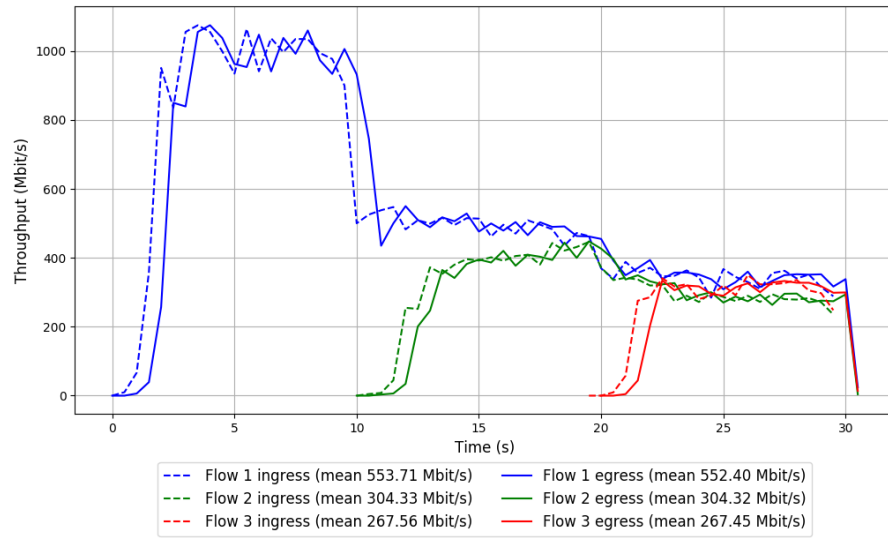


Run 5: Statistics of FillP

Start at: 2019-02-11 18:38:53
End at: 2019-02-11 18:39:23
Local clock offset: -0.552 ms
Remote clock offset: -0.066 ms

Below is generated by plot.py at 2019-02-11 20:20:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 843.34 Mbit/s
95th percentile per-packet one-way delay: 132.736 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 552.40 Mbit/s
95th percentile per-packet one-way delay: 140.494 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 304.32 Mbit/s
95th percentile per-packet one-way delay: 112.881 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 267.45 Mbit/s
95th percentile per-packet one-way delay: 114.221 ms
Loss rate: 0.00%

Run 5: Report of FillP — Data Link

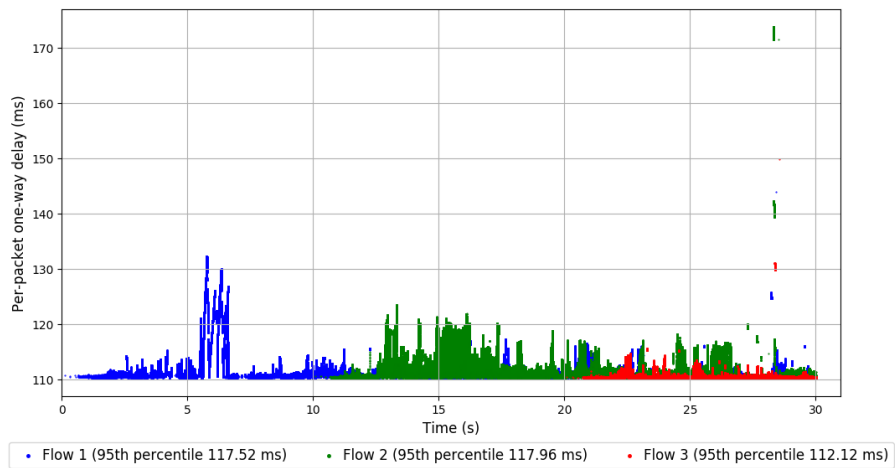
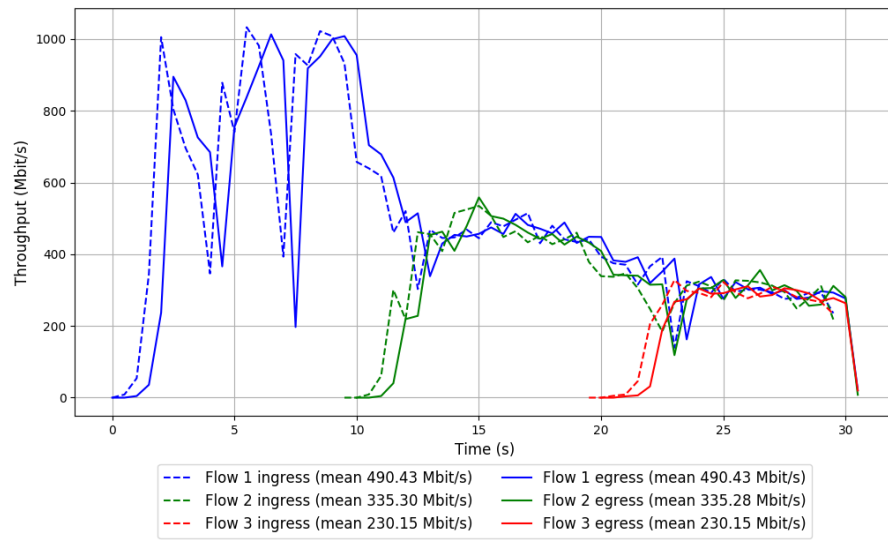


Run 1: Statistics of FillP-Sheep

Start at: 2019-02-11 15:59:27
End at: 2019-02-11 15:59:57
Local clock offset: -1.401 ms
Remote clock offset: -0.098 ms

Below is generated by plot.py at 2019-02-11 20:20:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 790.26 Mbit/s
95th percentile per-packet one-way delay: 117.273 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 490.43 Mbit/s
95th percentile per-packet one-way delay: 117.523 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 335.28 Mbit/s
95th percentile per-packet one-way delay: 117.962 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 230.15 Mbit/s
95th percentile per-packet one-way delay: 112.124 ms
Loss rate: 0.00%

Run 1: Report of FillP-Sheep — Data Link

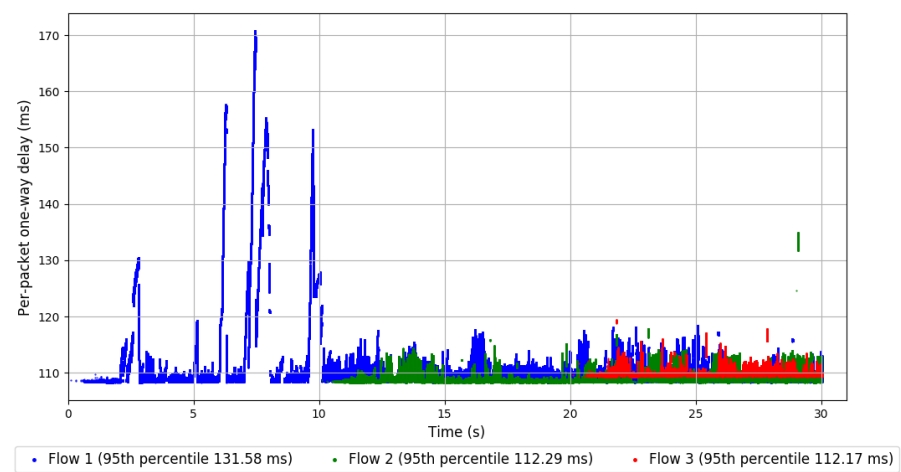
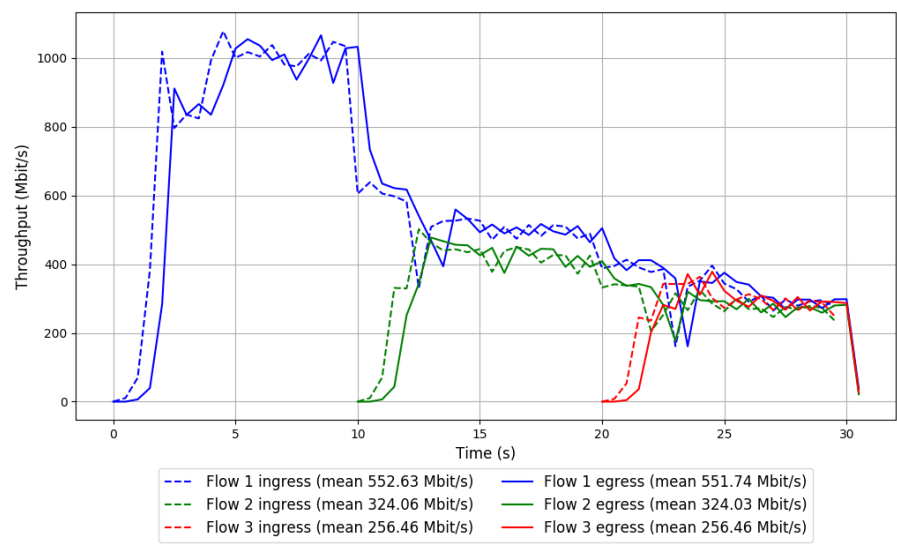


Run 2: Statistics of FillP-Sheep

Start at: 2019-02-11 16:37:26
End at: 2019-02-11 16:37:56
Local clock offset: -0.383 ms
Remote clock offset: -0.473 ms

Below is generated by plot.py at 2019-02-11 20:21:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 852.14 Mbit/s
95th percentile per-packet one-way delay: 126.585 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 551.74 Mbit/s
95th percentile per-packet one-way delay: 131.582 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 324.03 Mbit/s
95th percentile per-packet one-way delay: 112.289 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 256.46 Mbit/s
95th percentile per-packet one-way delay: 112.174 ms
Loss rate: 0.00%

Run 2: Report of FillP-Sheep — Data Link

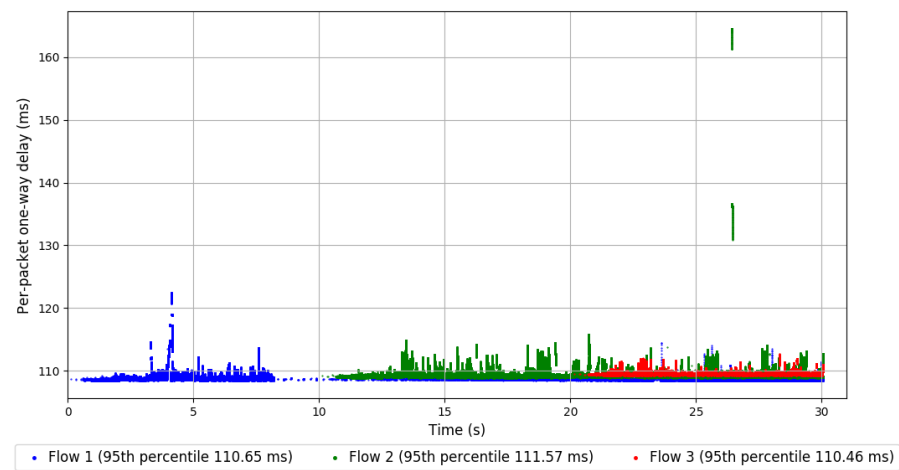
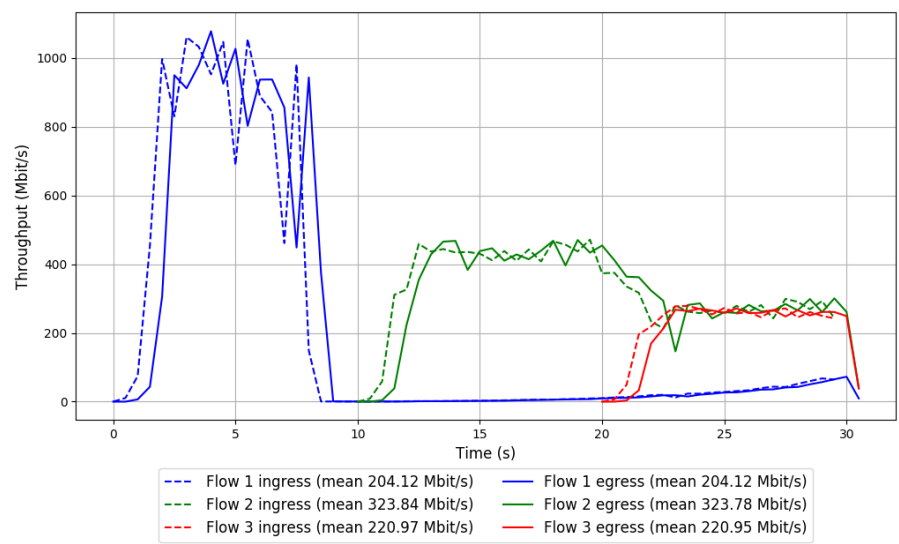


Run 3: Statistics of FillP-Sheep

Start at: 2019-02-11 17:16:06
End at: 2019-02-11 17:16:36
Local clock offset: -0.039 ms
Remote clock offset: -0.131 ms

```
# Below is generated by plot.py at 2019-02-11 20:21:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 492.59 Mbit/s
95th percentile per-packet one-way delay: 111.021 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 204.12 Mbit/s
95th percentile per-packet one-way delay: 110.654 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 323.78 Mbit/s
95th percentile per-packet one-way delay: 111.566 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 220.95 Mbit/s
95th percentile per-packet one-way delay: 110.463 ms
Loss rate: 0.00%
```

Run 3: Report of FillP-Sheep — Data Link

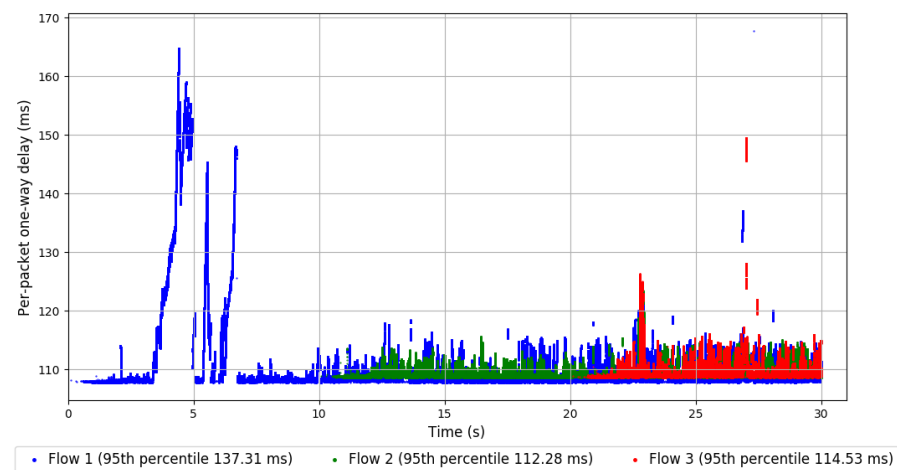
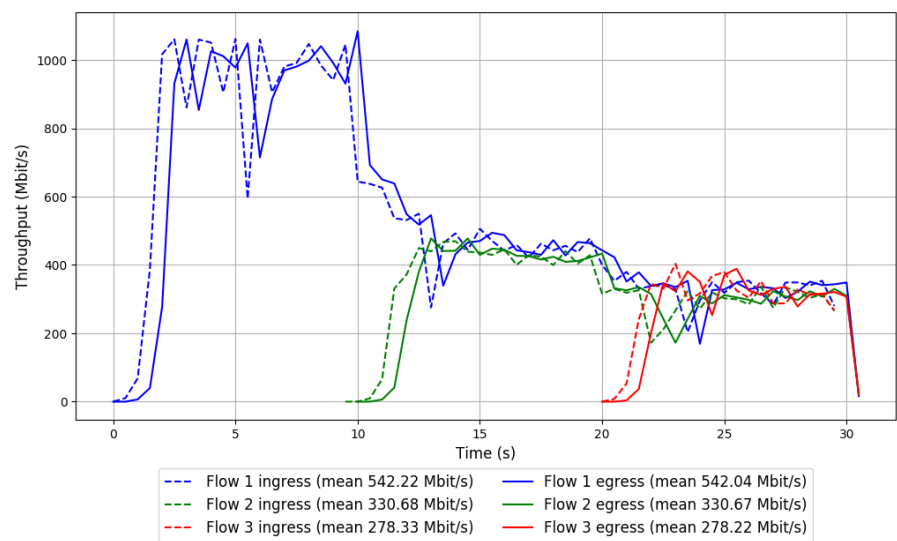


Run 4: Statistics of FillP-Sheep

Start at: 2019-02-11 17:53:41
End at: 2019-02-11 17:54:11
Local clock offset: 0.528 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2019-02-11 20:24:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 854.01 Mbit/s
95th percentile per-packet one-way delay: 126.666 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 542.04 Mbit/s
95th percentile per-packet one-way delay: 137.307 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 330.67 Mbit/s
95th percentile per-packet one-way delay: 112.281 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 278.22 Mbit/s
95th percentile per-packet one-way delay: 114.525 ms
Loss rate: 0.04%

Run 4: Report of FillP-Sheep — Data Link

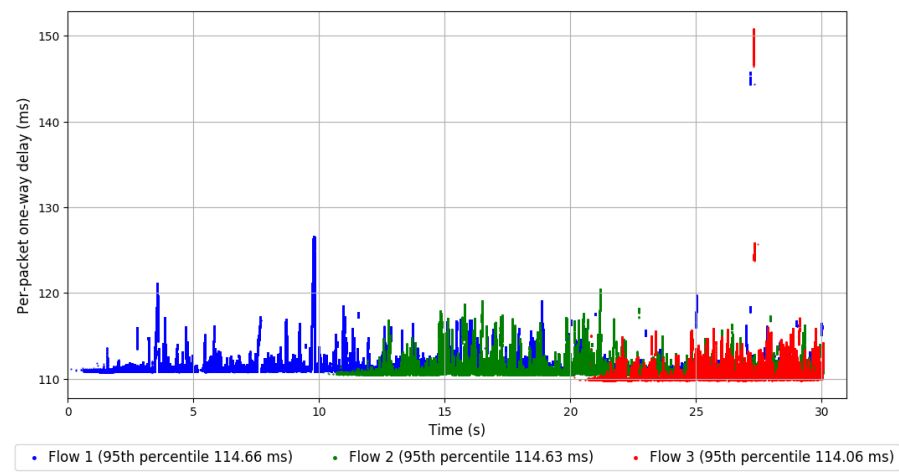
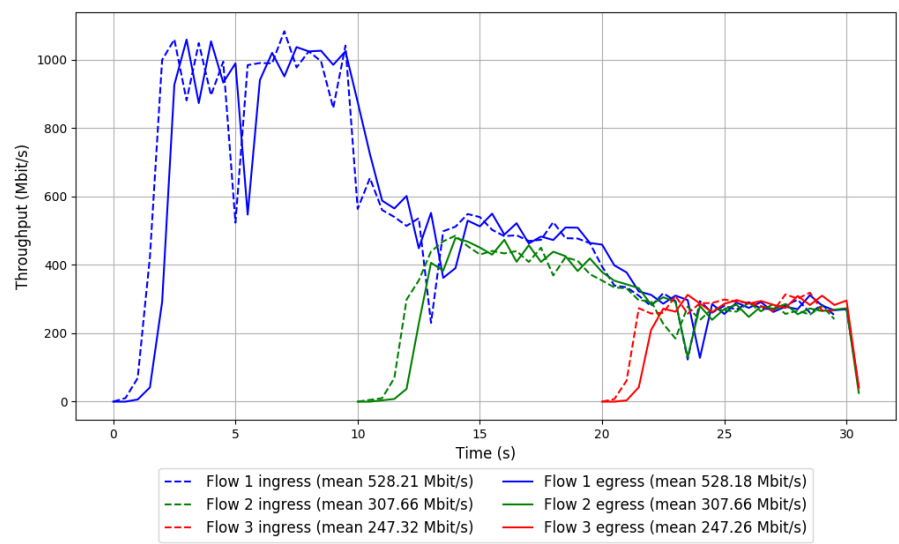


Run 5: Statistics of FillP-Sheep

Start at: 2019-02-11 18:32:52
End at: 2019-02-11 18:33:22
Local clock offset: -1.753 ms
Remote clock offset: -0.148 ms

```
# Below is generated by plot.py at 2019-02-11 20:24:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 814.20 Mbit/s
95th percentile per-packet one-way delay: 114.559 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 528.18 Mbit/s
95th percentile per-packet one-way delay: 114.662 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 307.66 Mbit/s
95th percentile per-packet one-way delay: 114.628 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 247.26 Mbit/s
95th percentile per-packet one-way delay: 114.055 ms
Loss rate: 0.00%
```

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-02-11 16:16:09

End at: 2019-02-11 16:16:39

Local clock offset: -1.361 ms

Remote clock offset: 0.257 ms

Below is generated by plot.py at 2019-02-11 20:25:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 367.70 Mbit/s

95th percentile per-packet one-way delay: 112.378 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 213.93 Mbit/s

95th percentile per-packet one-way delay: 111.920 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 149.32 Mbit/s

95th percentile per-packet one-way delay: 111.603 ms

Loss rate: 0.00%

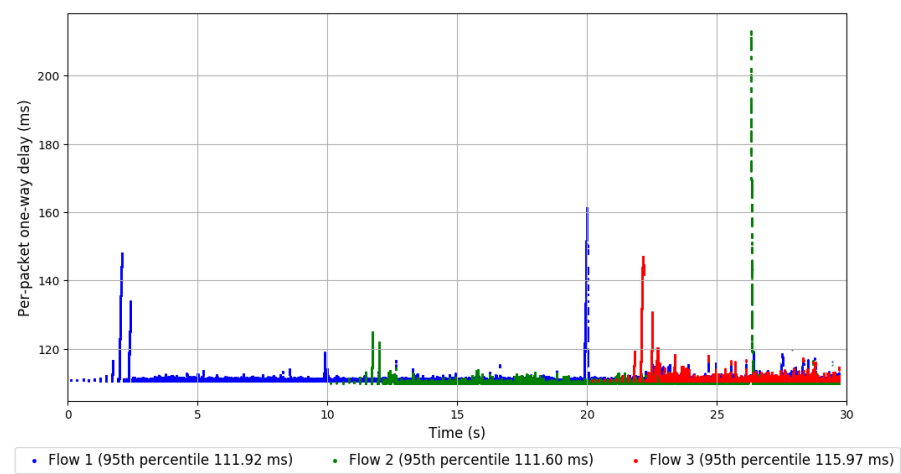
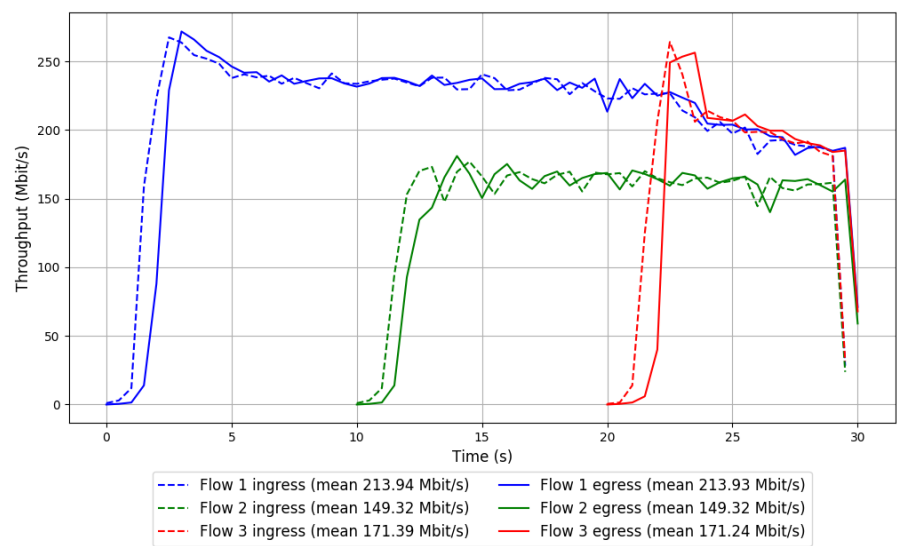
-- Flow 3:

Average throughput: 171.24 Mbit/s

95th percentile per-packet one-way delay: 115.969 ms

Loss rate: 0.08%

Run 1: Report of Indigo — Data Link

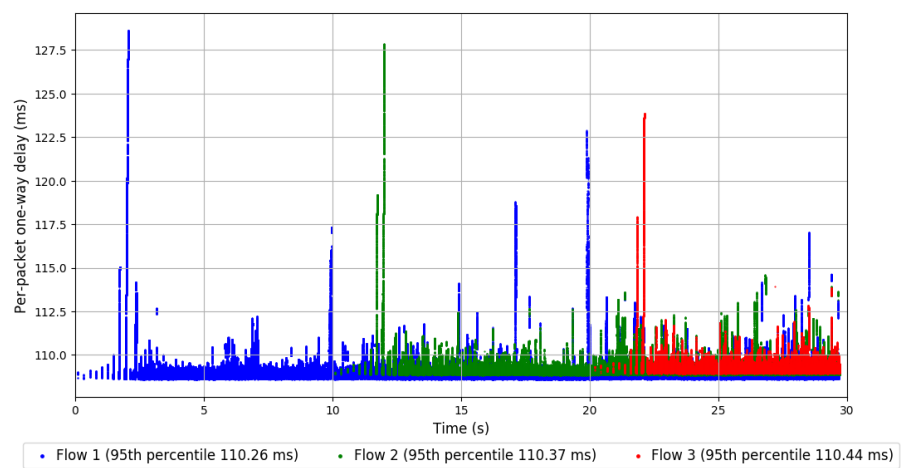
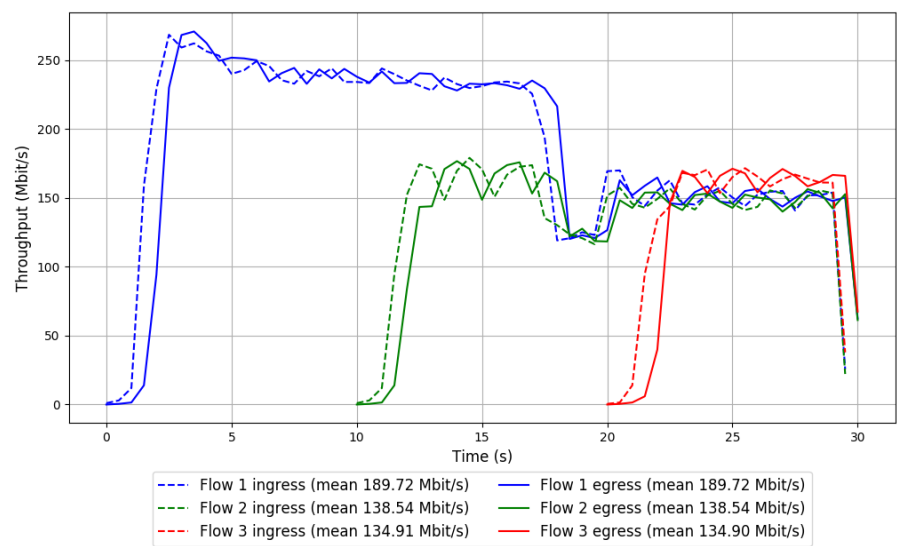


Run 2: Statistics of Indigo

Start at: 2019-02-11 16:54:34
End at: 2019-02-11 16:55:04
Local clock offset: 0.306 ms
Remote clock offset: -0.152 ms

Below is generated by plot.py at 2019-02-11 20:26:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 324.69 Mbit/s
95th percentile per-packet one-way delay: 110.322 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 189.72 Mbit/s
95th percentile per-packet one-way delay: 110.261 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 138.54 Mbit/s
95th percentile per-packet one-way delay: 110.368 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 134.90 Mbit/s
95th percentile per-packet one-way delay: 110.440 ms
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

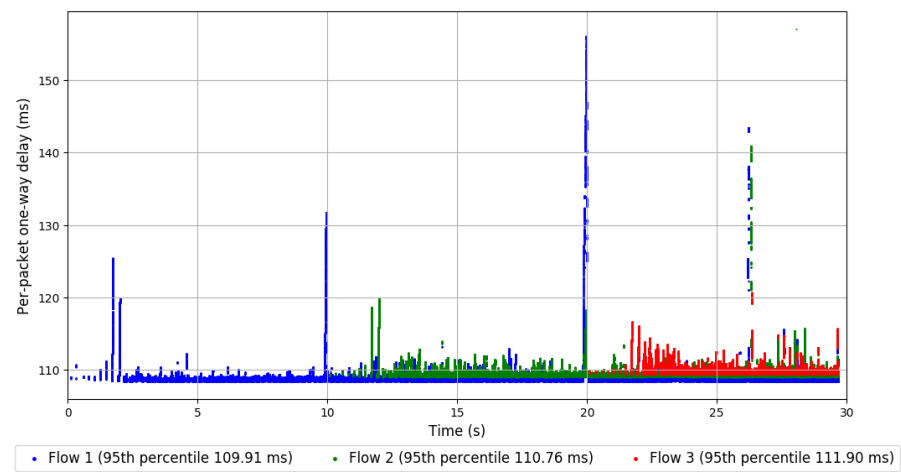
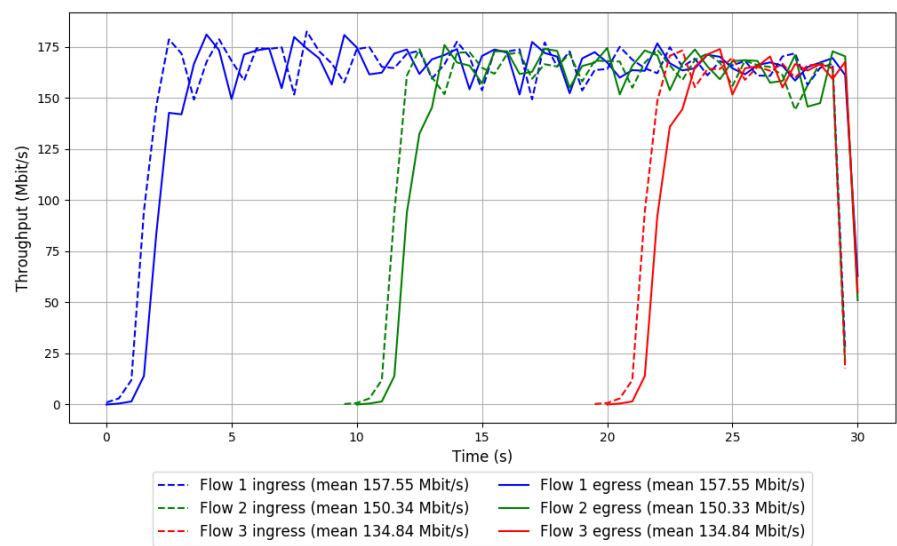


Run 3: Statistics of Indigo

Start at: 2019-02-11 17:32:48
End at: 2019-02-11 17:33:18
Local clock offset: -0.241 ms
Remote clock offset: -0.105 ms

```
# Below is generated by plot.py at 2019-02-11 20:29:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 300.81 Mbit/s
95th percentile per-packet one-way delay: 110.703 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 157.55 Mbit/s
95th percentile per-packet one-way delay: 109.912 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 150.33 Mbit/s
95th percentile per-packet one-way delay: 110.762 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 134.84 Mbit/s
95th percentile per-packet one-way delay: 111.902 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo — Data Link

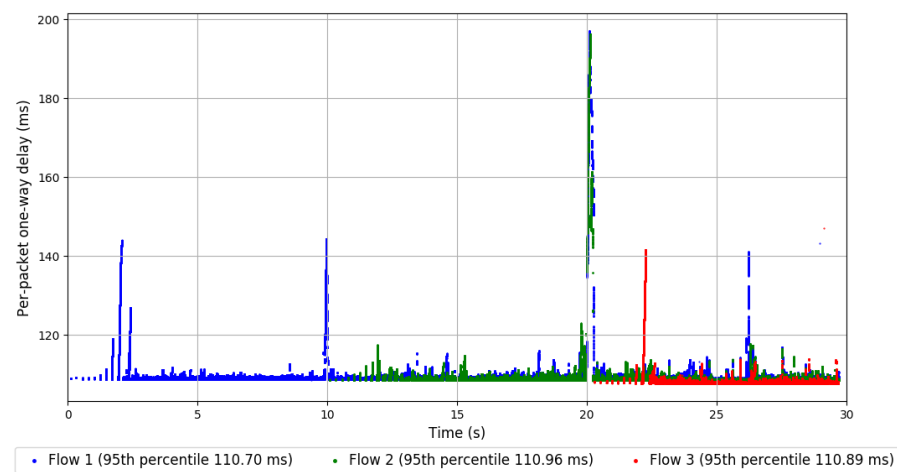
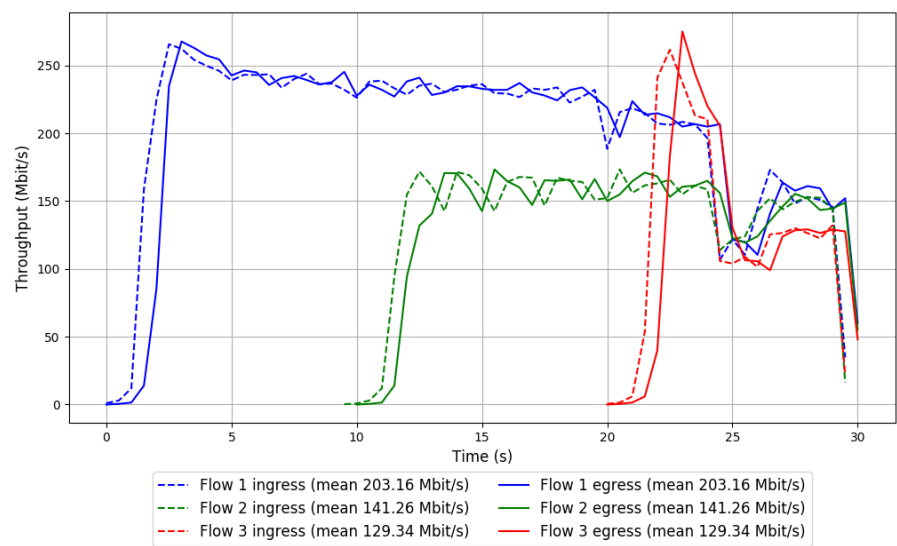


Run 4: Statistics of Indigo

Start at: 2019-02-11 18:11:01
End at: 2019-02-11 18:11:31
Local clock offset: 0.037 ms
Remote clock offset: -0.482 ms

Below is generated by plot.py at 2019-02-11 20:30:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 337.75 Mbit/s
95th percentile per-packet one-way delay: 110.815 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 203.16 Mbit/s
95th percentile per-packet one-way delay: 110.703 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 141.26 Mbit/s
95th percentile per-packet one-way delay: 110.961 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 129.34 Mbit/s
95th percentile per-packet one-way delay: 110.893 ms
Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-02-11 18:50:23

End at: 2019-02-11 18:50:53

Local clock offset: -0.089 ms

Remote clock offset: 0.311 ms

Below is generated by plot.py at 2019-02-11 20:32:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 357.07 Mbit/s

95th percentile per-packet one-way delay: 113.223 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 216.32 Mbit/s

95th percentile per-packet one-way delay: 113.698 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 148.30 Mbit/s

95th percentile per-packet one-way delay: 111.550 ms

Loss rate: 0.00%

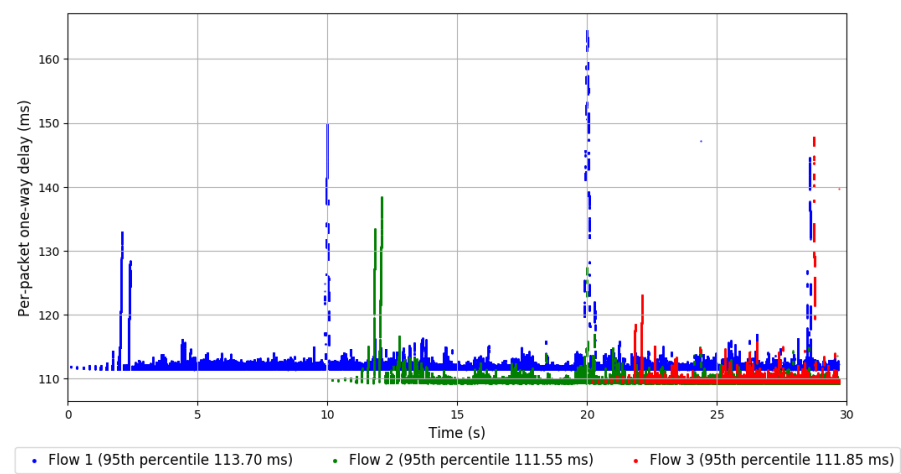
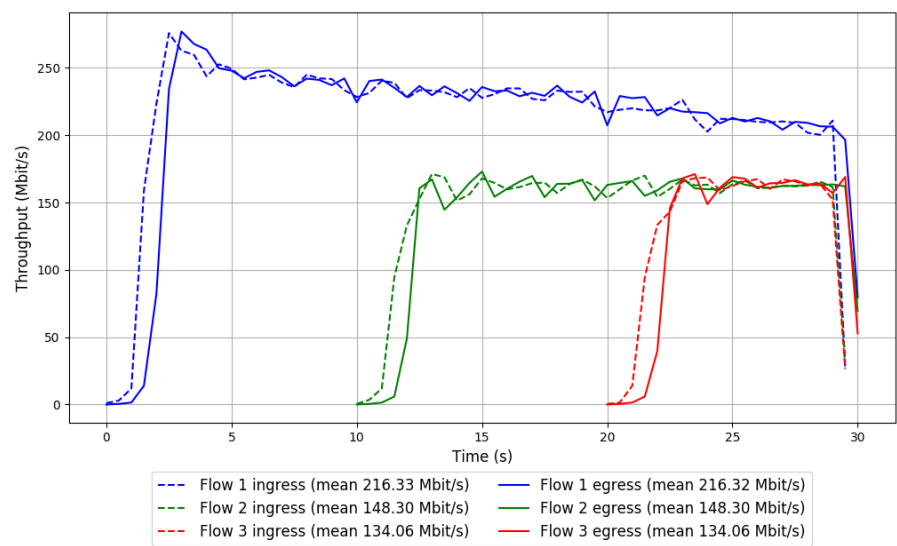
-- Flow 3:

Average throughput: 134.06 Mbit/s

95th percentile per-packet one-way delay: 111.849 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link

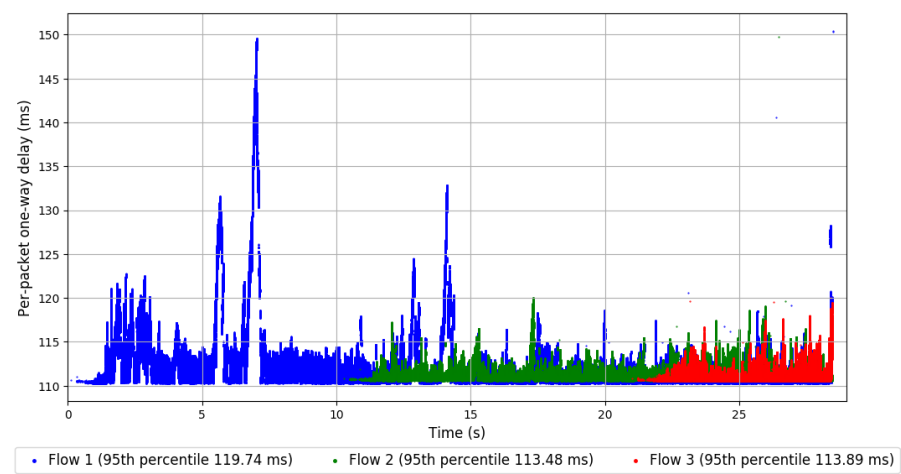
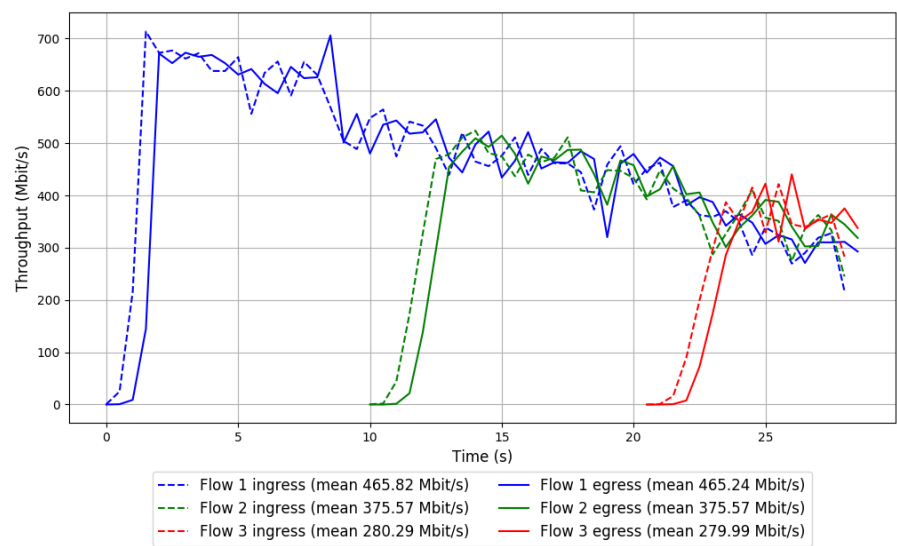


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-02-11 16:28:33
End at: 2019-02-11 16:29:03
Local clock offset: -1.33 ms
Remote clock offset: -0.144 ms

Below is generated by plot.py at 2019-02-11 20:34:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 779.50 Mbit/s
95th percentile per-packet one-way delay: 116.988 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 465.24 Mbit/s
95th percentile per-packet one-way delay: 119.738 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 375.57 Mbit/s
95th percentile per-packet one-way delay: 113.485 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 279.99 Mbit/s
95th percentile per-packet one-way delay: 113.886 ms
Loss rate: 0.11%

Run 1: Report of Indigo-MusesC3 — Data Link

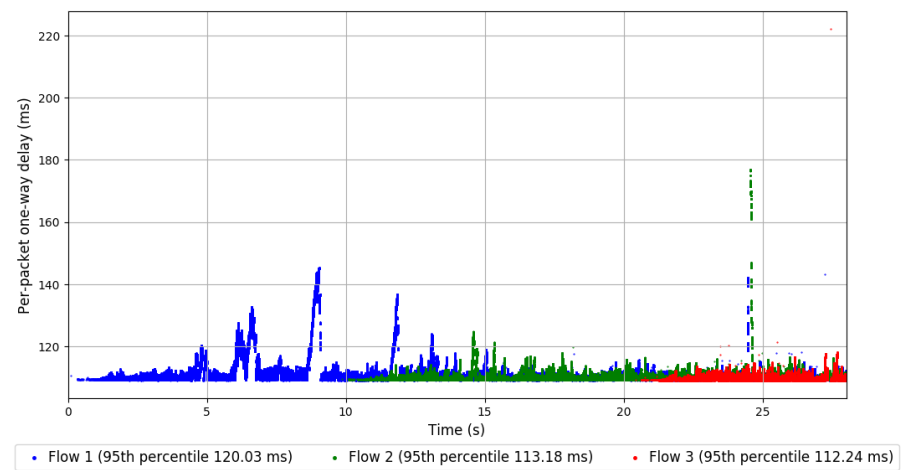
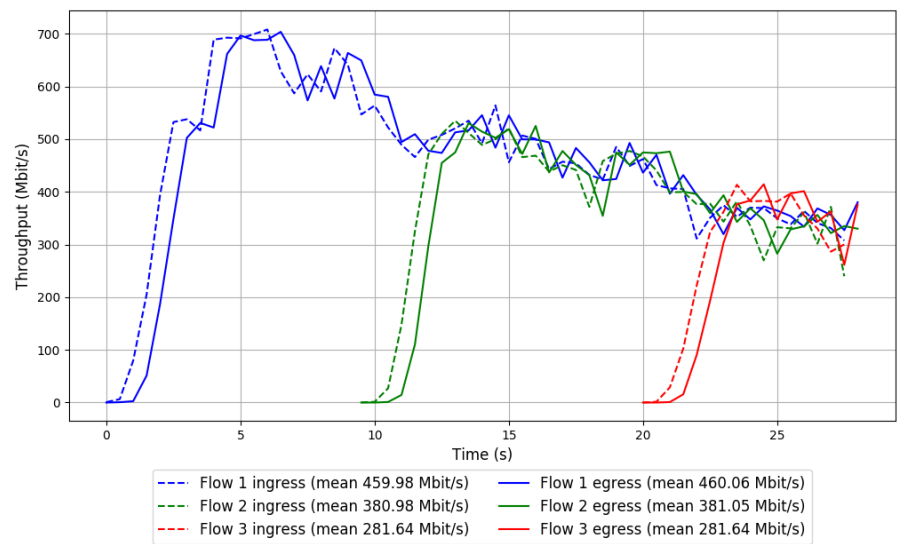


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-02-11 17:07:13
End at: 2019-02-11 17:07:43
Local clock offset: -0.003 ms
Remote clock offset: -0.182 ms

Below is generated by plot.py at 2019-02-11 20:38:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 784.26 Mbit/s
95th percentile per-packet one-way delay: 116.481 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 460.06 Mbit/s
95th percentile per-packet one-way delay: 120.034 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 381.05 Mbit/s
95th percentile per-packet one-way delay: 113.177 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 281.64 Mbit/s
95th percentile per-packet one-way delay: 112.237 ms
Loss rate: 0.05%

Run 2: Report of Indigo-MusesC3 — Data Link

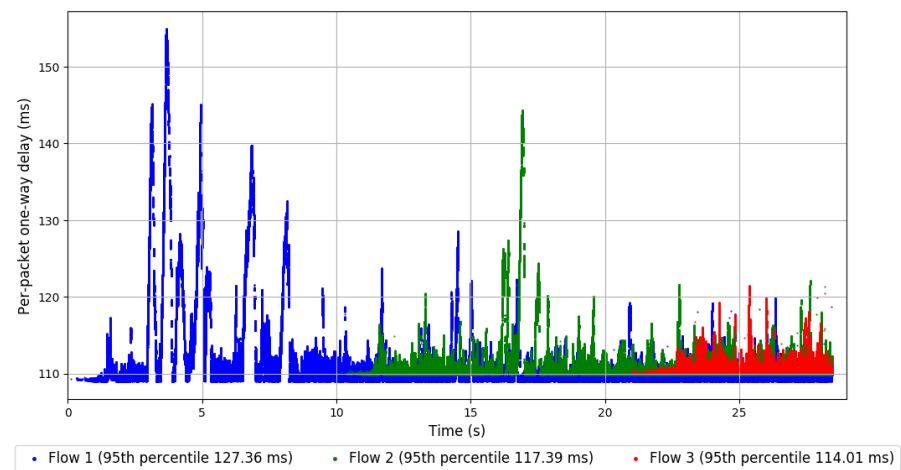
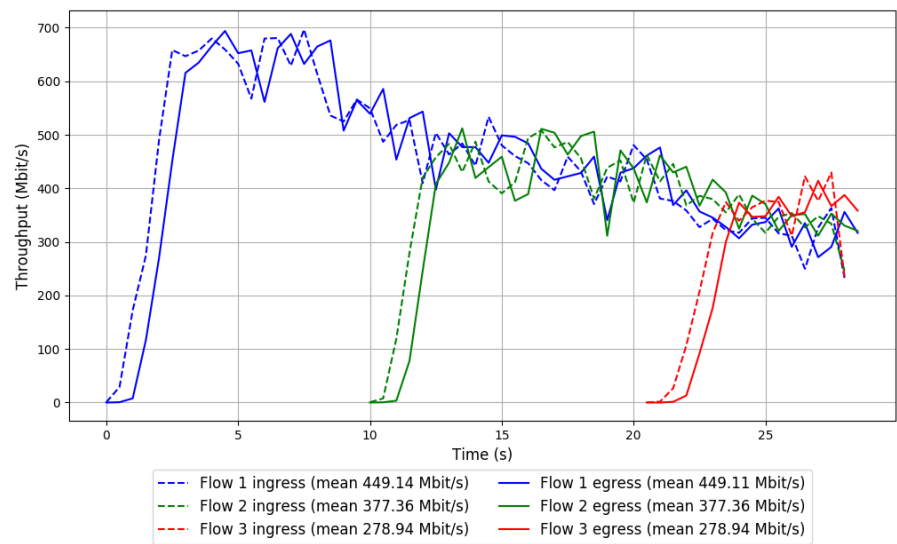


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-02-11 17:44:57
End at: 2019-02-11 17:45:27
Local clock offset: -0.758 ms
Remote clock offset: -0.075 ms

Below is generated by plot.py at 2019-02-11 20:38:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 767.45 Mbit/s
95th percentile per-packet one-way delay: 123.667 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 449.11 Mbit/s
95th percentile per-packet one-way delay: 127.364 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 377.36 Mbit/s
95th percentile per-packet one-way delay: 117.393 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 278.94 Mbit/s
95th percentile per-packet one-way delay: 114.013 ms
Loss rate: 0.00%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-02-11 18:24:03

End at: 2019-02-11 18:24:33

Local clock offset: -1.217 ms

Remote clock offset: -0.13 ms

Below is generated by plot.py at 2019-02-11 20:39:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 764.77 Mbit/s

95th percentile per-packet one-way delay: 120.576 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 461.50 Mbit/s

95th percentile per-packet one-way delay: 124.698 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 379.31 Mbit/s

95th percentile per-packet one-way delay: 112.955 ms

Loss rate: 0.01%

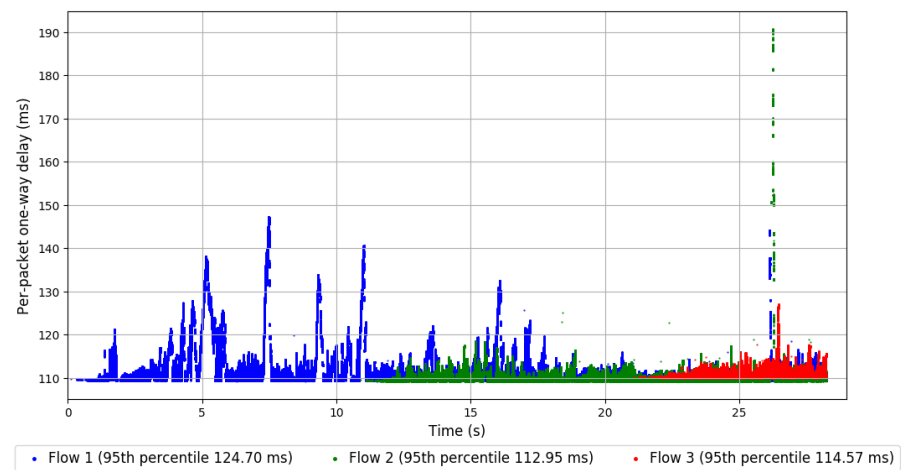
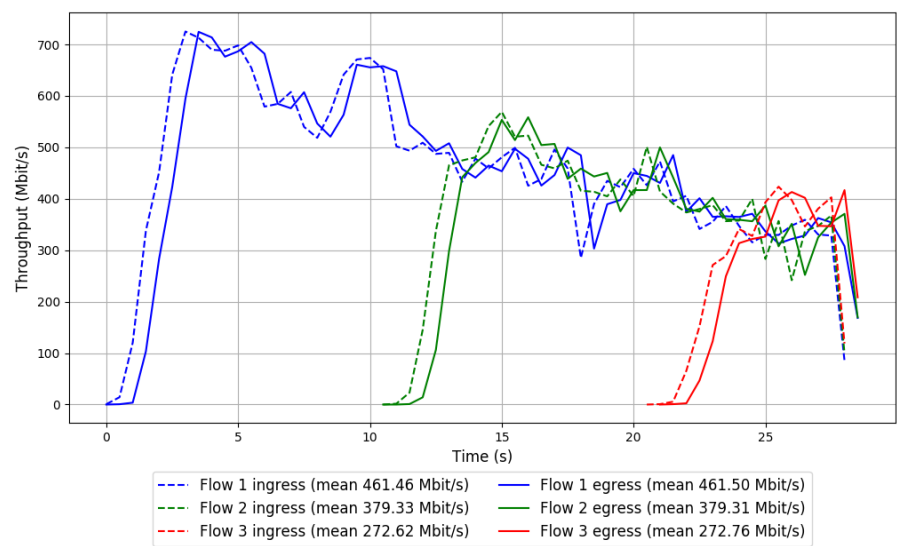
-- Flow 3:

Average throughput: 272.76 Mbit/s

95th percentile per-packet one-way delay: 114.568 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesC3 — Data Link

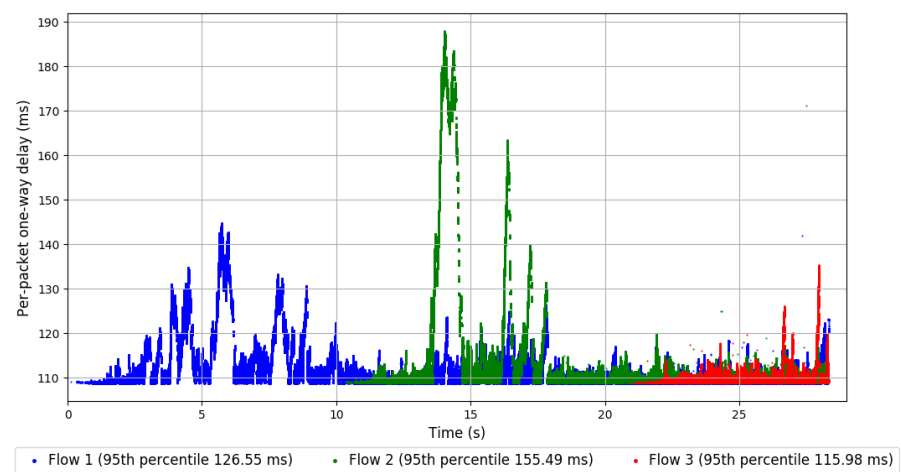
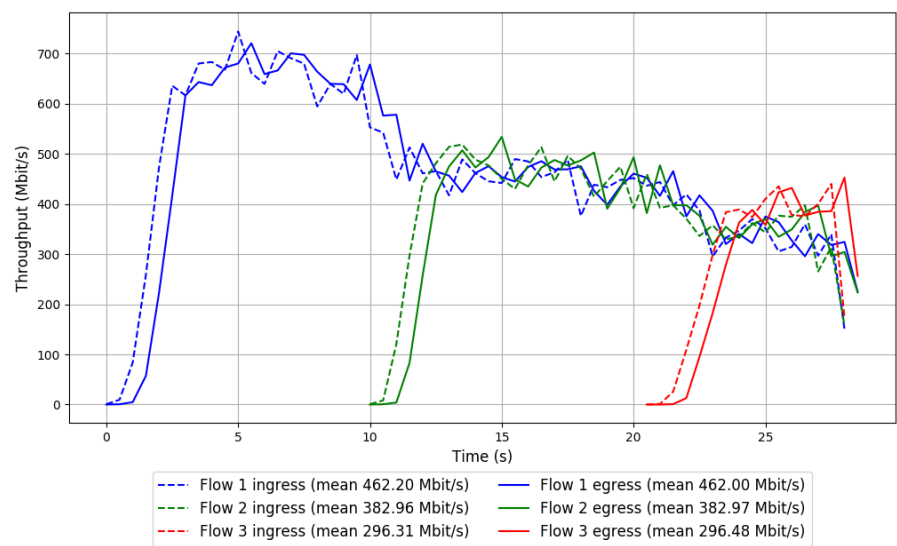


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-02-11 19:02:49
End at: 2019-02-11 19:03:19
Local clock offset: 0.467 ms
Remote clock offset: -0.037 ms

Below is generated by plot.py at 2019-02-11 20:41:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 786.42 Mbit/s
95th percentile per-packet one-way delay: 128.863 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 462.00 Mbit/s
95th percentile per-packet one-way delay: 126.549 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 382.97 Mbit/s
95th percentile per-packet one-way delay: 155.485 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 296.48 Mbit/s
95th percentile per-packet one-way delay: 115.983 ms
Loss rate: 0.00%

Run 5: Report of Indigo-MusesC3 — Data Link

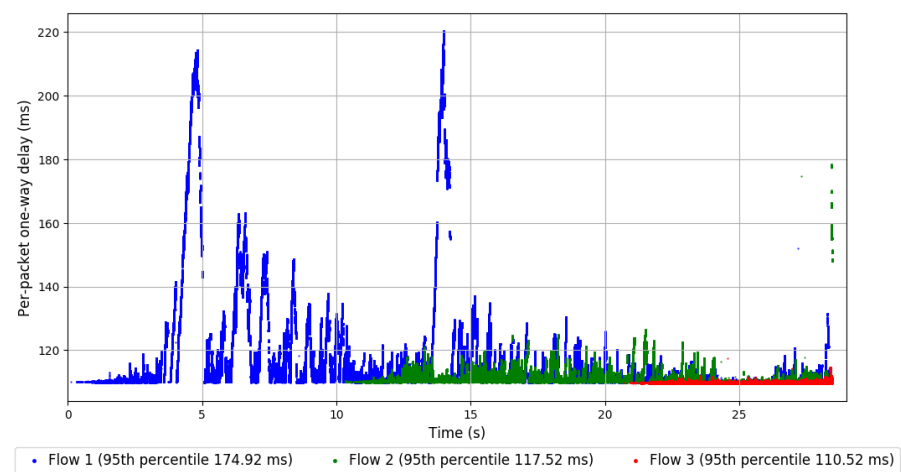
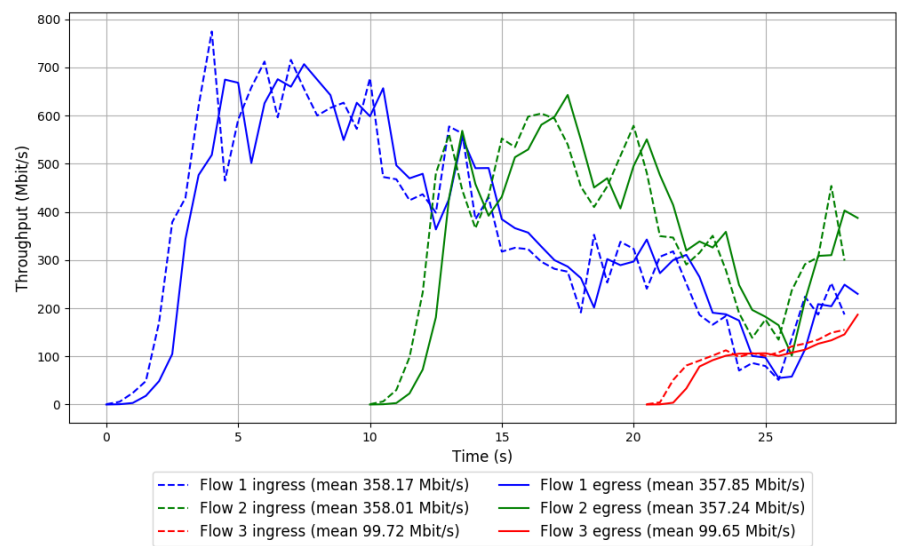


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-02-11 16:14:19
End at: 2019-02-11 16:14:49
Local clock offset: -0.705 ms
Remote clock offset: -0.059 ms

Below is generated by plot.py at 2019-02-11 20:41:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 616.05 Mbit/s
95th percentile per-packet one-way delay: 151.092 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 357.85 Mbit/s
95th percentile per-packet one-way delay: 174.920 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 357.24 Mbit/s
95th percentile per-packet one-way delay: 117.519 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 99.65 Mbit/s
95th percentile per-packet one-way delay: 110.518 ms
Loss rate: 0.07%

Run 1: Report of Indigo-MusesC5 — Data Link

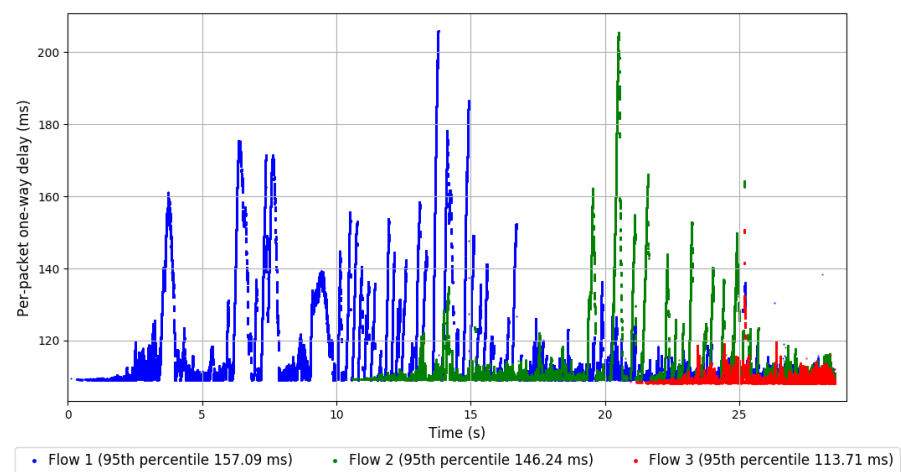
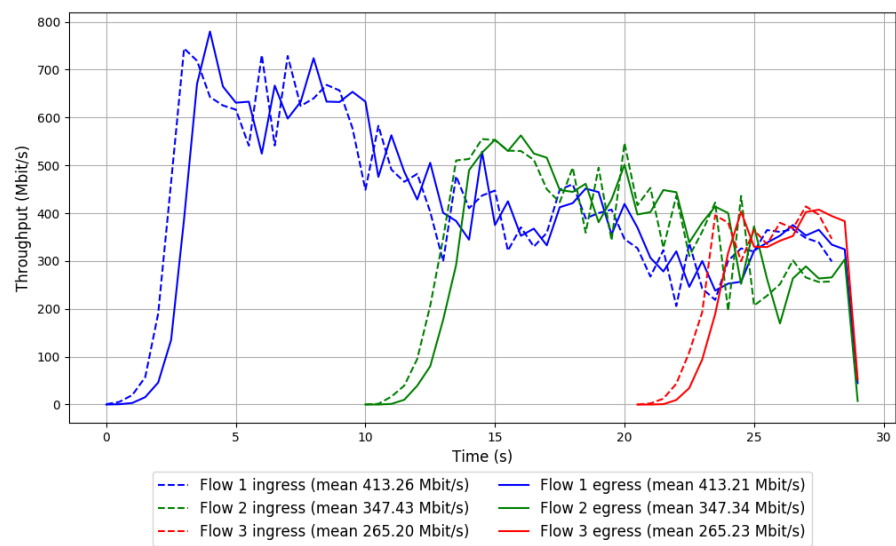


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-02-11 16:52:32
End at: 2019-02-11 16:53:02
Local clock offset: 0.16 ms
Remote clock offset: -0.175 ms

Below is generated by plot.py at 2019-02-11 20:44:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 706.37 Mbit/s
95th percentile per-packet one-way delay: 153.570 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 413.21 Mbit/s
95th percentile per-packet one-way delay: 157.089 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 347.34 Mbit/s
95th percentile per-packet one-way delay: 146.237 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 265.23 Mbit/s
95th percentile per-packet one-way delay: 113.714 ms
Loss rate: 0.01%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-02-11 17:30:57

End at: 2019-02-11 17:31:27

Local clock offset: 0.758 ms

Remote clock offset: -0.15 ms

Below is generated by plot.py at 2019-02-11 20:44:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 642.07 Mbit/s

95th percentile per-packet one-way delay: 139.946 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 407.65 Mbit/s

95th percentile per-packet one-way delay: 143.993 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 320.60 Mbit/s

95th percentile per-packet one-way delay: 118.991 ms

Loss rate: 0.00%

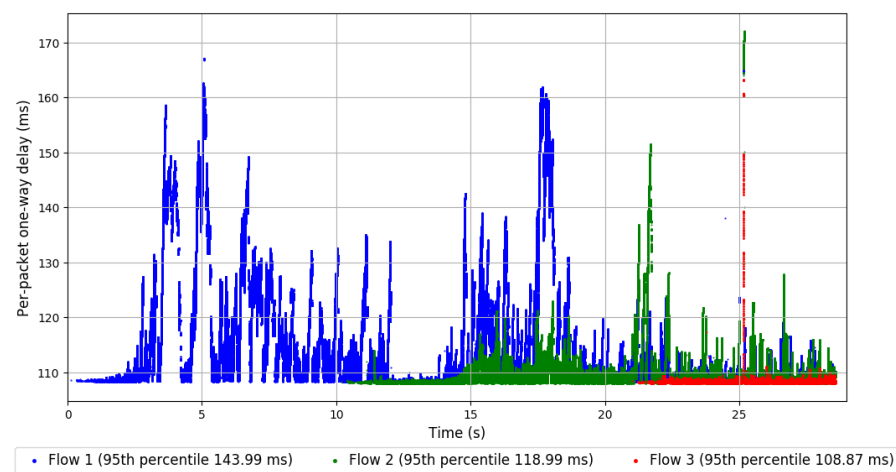
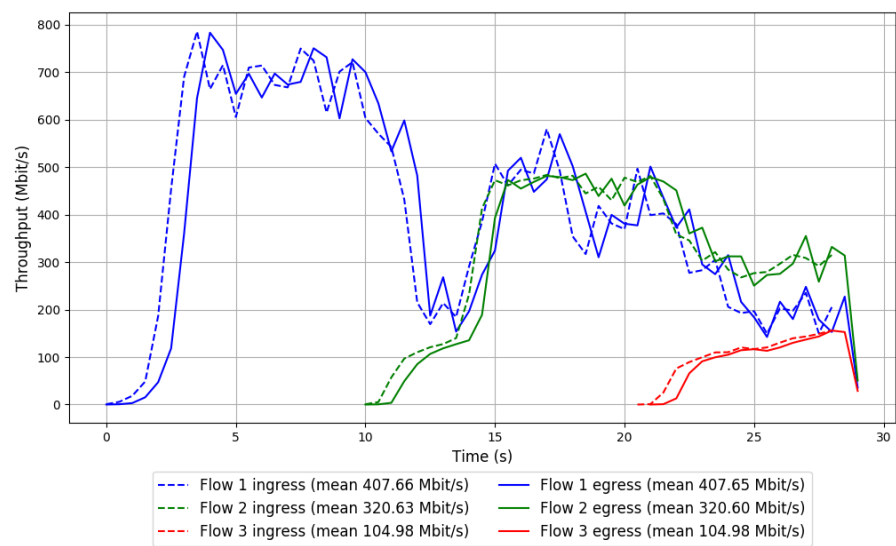
-- Flow 3:

Average throughput: 104.98 Mbit/s

95th percentile per-packet one-way delay: 108.869 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesC5 — Data Link

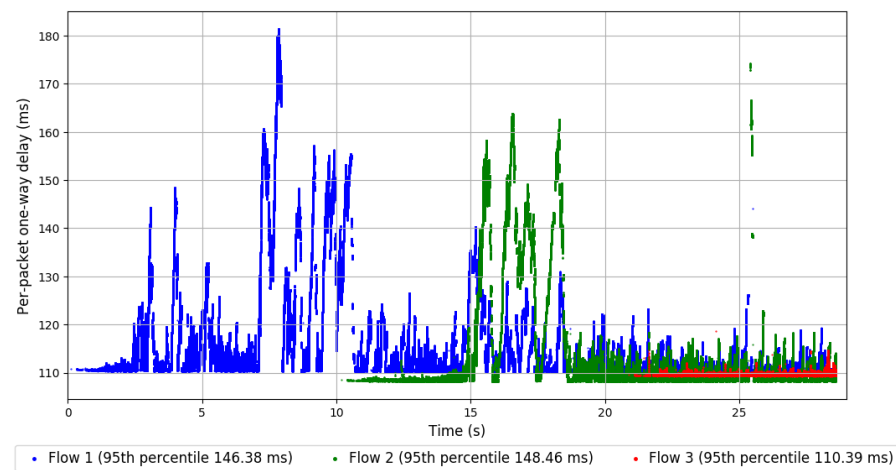
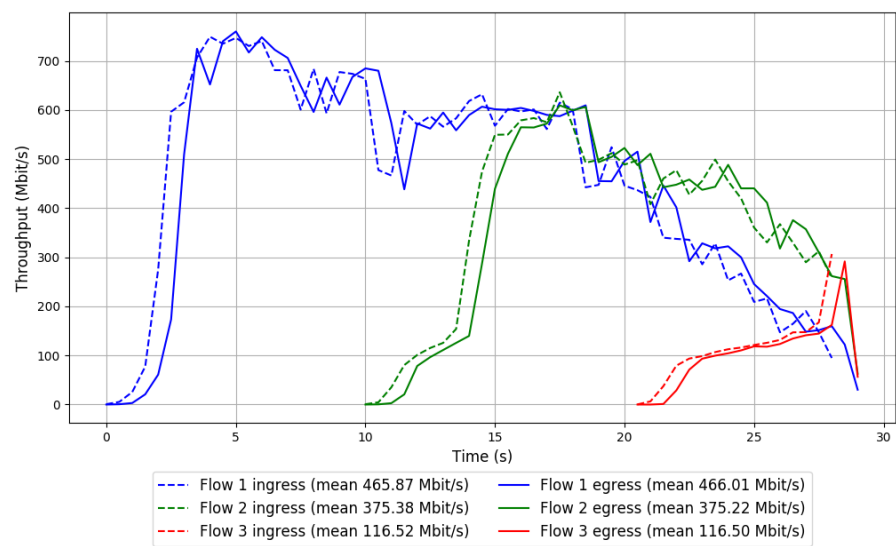


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-02-11 18:09:04
End at: 2019-02-11 18:09:34
Local clock offset: -0.116 ms
Remote clock offset: -0.125 ms

Below is generated by plot.py at 2019-02-11 20:48:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 739.84 Mbit/s
95th percentile per-packet one-way delay: 146.613 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 466.01 Mbit/s
95th percentile per-packet one-way delay: 146.379 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 375.22 Mbit/s
95th percentile per-packet one-way delay: 148.458 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 116.50 Mbit/s
95th percentile per-packet one-way delay: 110.388 ms
Loss rate: 0.00%

Run 4: Report of Indigo-MusesC5 — Data Link

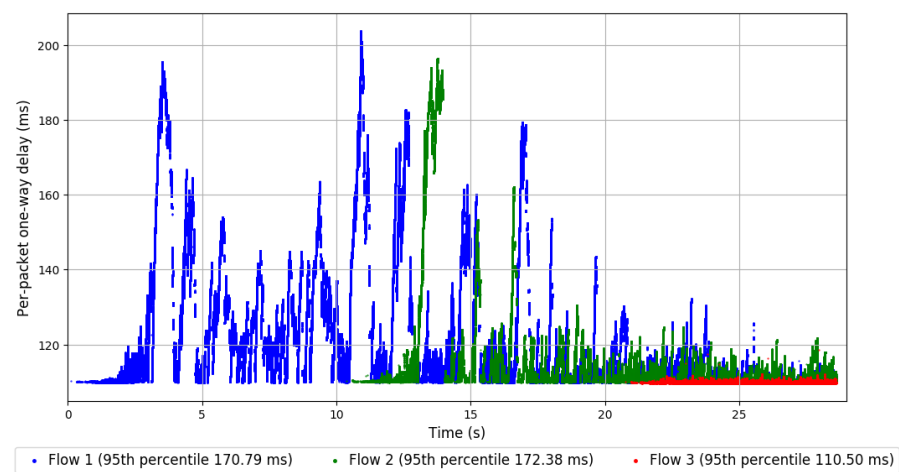
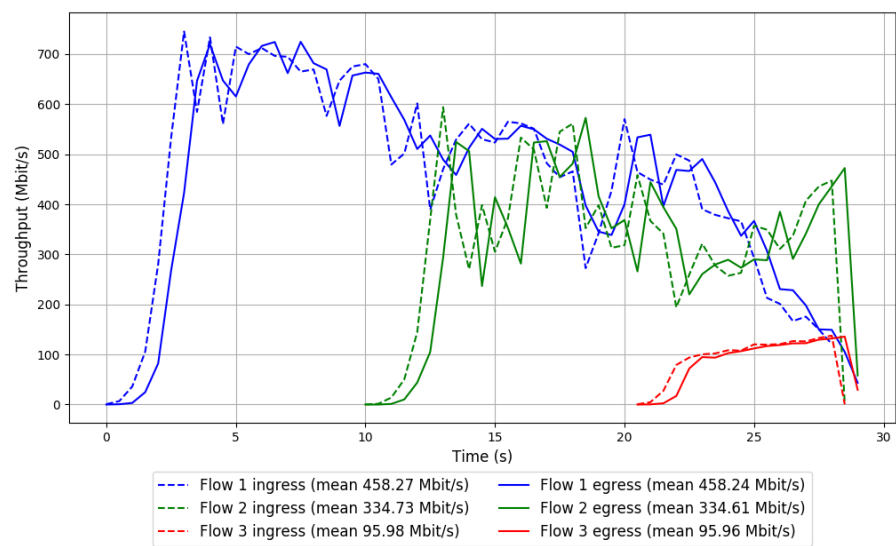


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-02-11 18:48:27
End at: 2019-02-11 18:48:57
Local clock offset: -0.639 ms
Remote clock offset: -0.017 ms

Below is generated by plot.py at 2019-02-11 20:51:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 698.66 Mbit/s
95th percentile per-packet one-way delay: 170.370 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 458.24 Mbit/s
95th percentile per-packet one-way delay: 170.793 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 334.61 Mbit/s
95th percentile per-packet one-way delay: 172.382 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 95.96 Mbit/s
95th percentile per-packet one-way delay: 110.505 ms
Loss rate: 0.01%

Run 5: Report of Indigo-MusesC5 — Data Link

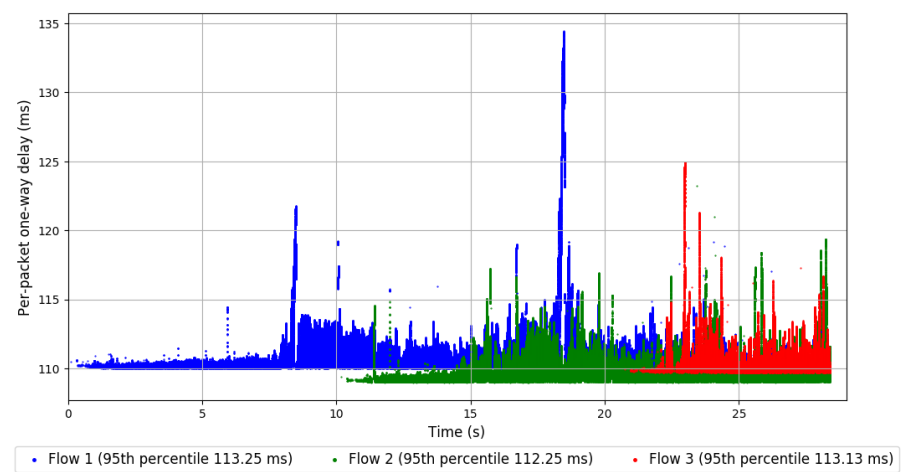
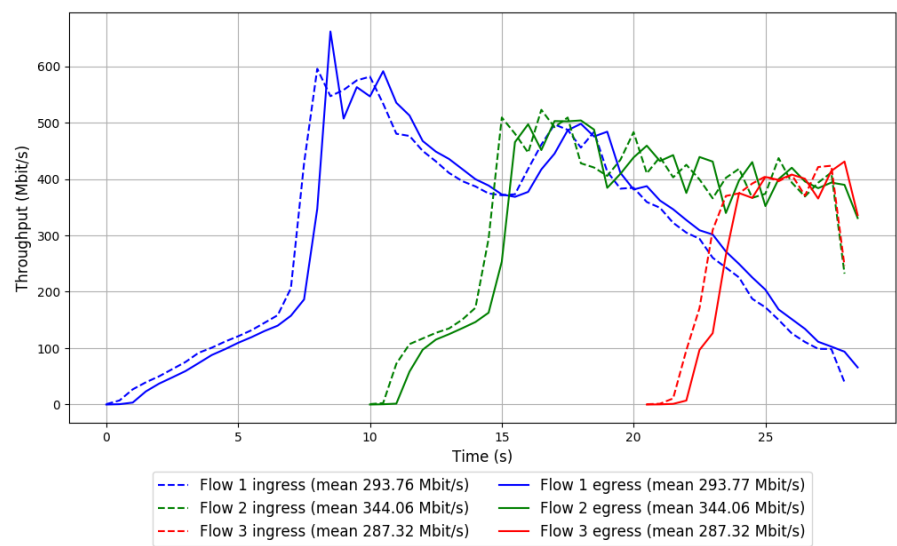


Run 1: Statistics of Indigo-MusesD

Start at: 2019-02-11 16:23:13
End at: 2019-02-11 16:23:43
Local clock offset: -0.779 ms
Remote clock offset: -0.114 ms

Below is generated by plot.py at 2019-02-11 20:51:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 593.22 Mbit/s
95th percentile per-packet one-way delay: 112.914 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 293.77 Mbit/s
95th percentile per-packet one-way delay: 113.247 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 344.06 Mbit/s
95th percentile per-packet one-way delay: 112.255 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 287.32 Mbit/s
95th percentile per-packet one-way delay: 113.126 ms
Loss rate: 0.00%

Run 1: Report of Indigo-MusesD — Data Link

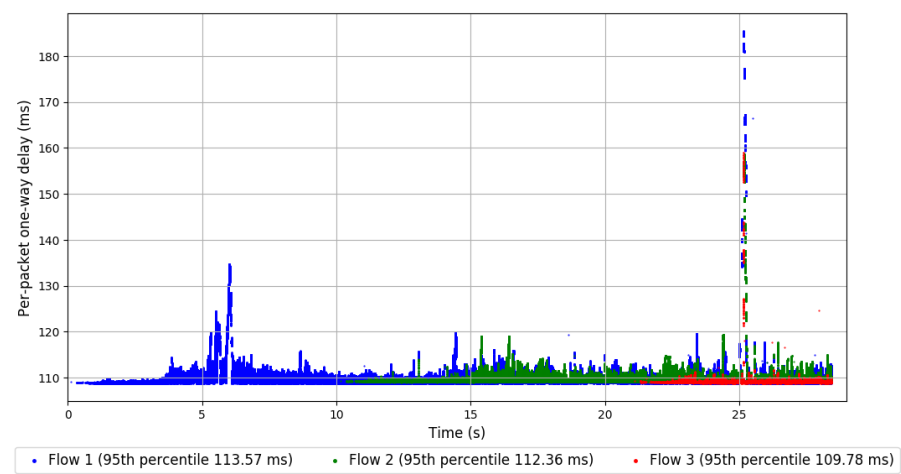
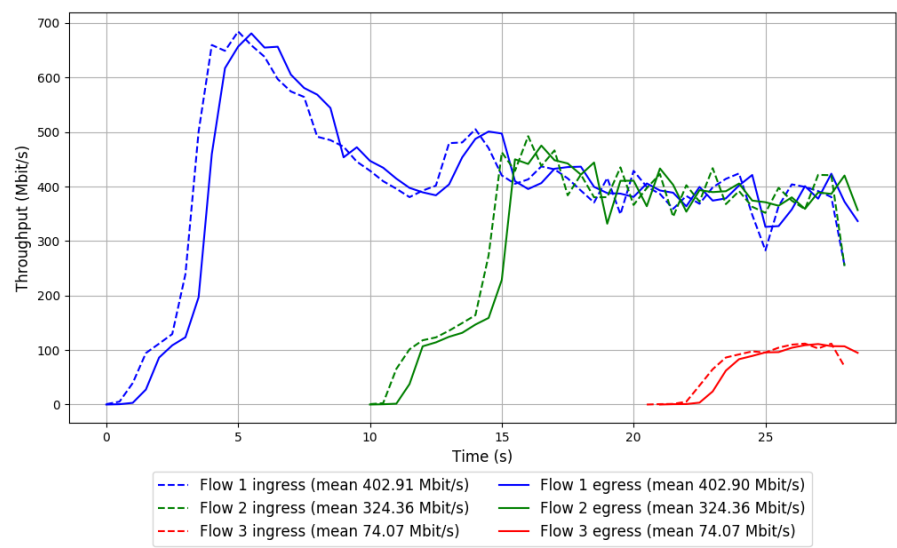


Run 2: Statistics of Indigo-MusesD

Start at: 2019-02-11 17:01:48
End at: 2019-02-11 17:02:19
Local clock offset: 0.063 ms
Remote clock offset: -0.185 ms

Below is generated by plot.py at 2019-02-11 20:51:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 631.48 Mbit/s
95th percentile per-packet one-way delay: 112.958 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 402.90 Mbit/s
95th percentile per-packet one-way delay: 113.572 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 324.36 Mbit/s
95th percentile per-packet one-way delay: 112.360 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 74.07 Mbit/s
95th percentile per-packet one-way delay: 109.783 ms
Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link

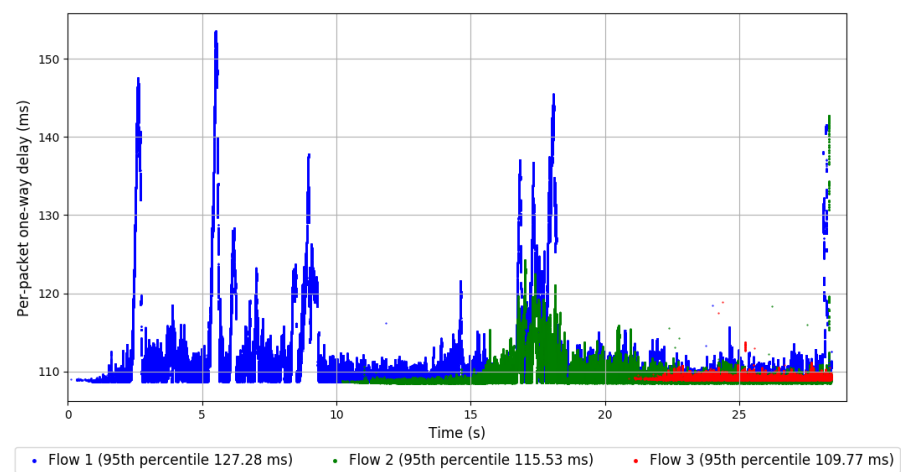
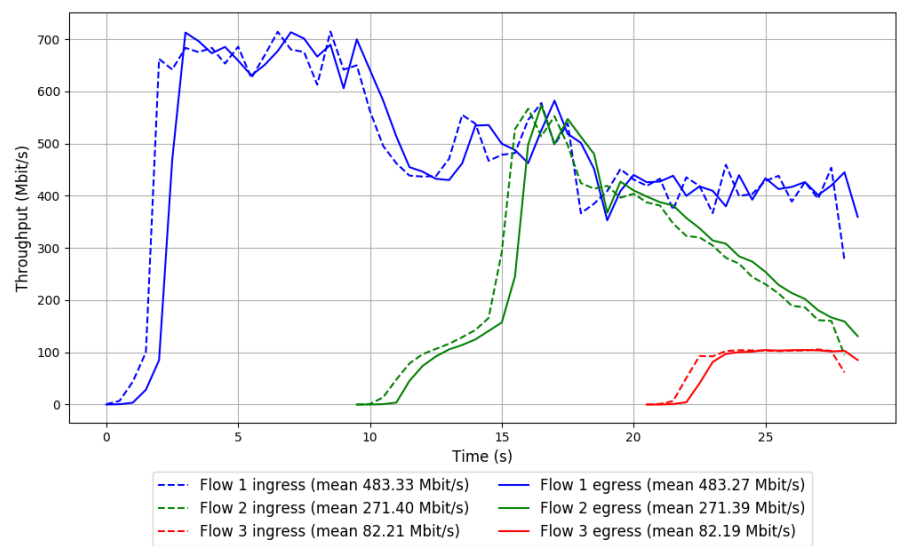


Run 3: Statistics of Indigo-MusesD

Start at: 2019-02-11 17:39:42
End at: 2019-02-11 17:40:12
Local clock offset: 0.469 ms
Remote clock offset: -0.064 ms

Below is generated by plot.py at 2019-02-11 20:53:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 681.76 Mbit/s
95th percentile per-packet one-way delay: 122.713 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 483.27 Mbit/s
95th percentile per-packet one-way delay: 127.275 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 271.39 Mbit/s
95th percentile per-packet one-way delay: 115.526 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 82.19 Mbit/s
95th percentile per-packet one-way delay: 109.767 ms
Loss rate: 0.02%

Run 3: Report of Indigo-MusesD — Data Link

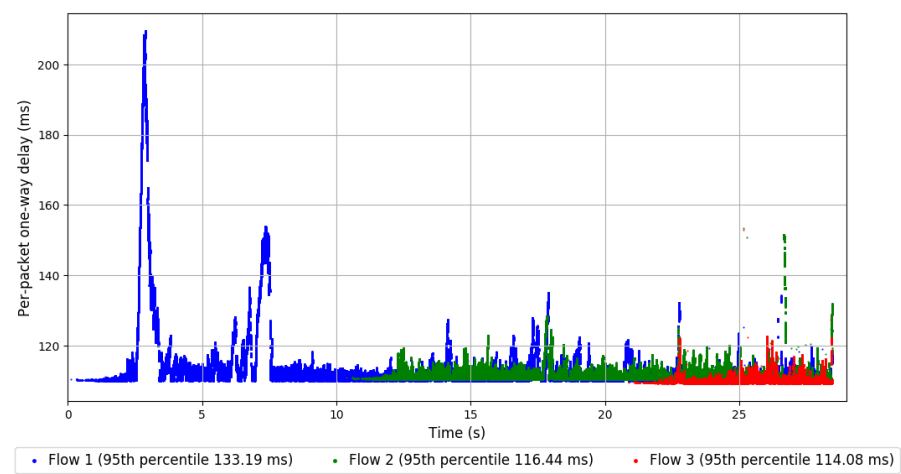
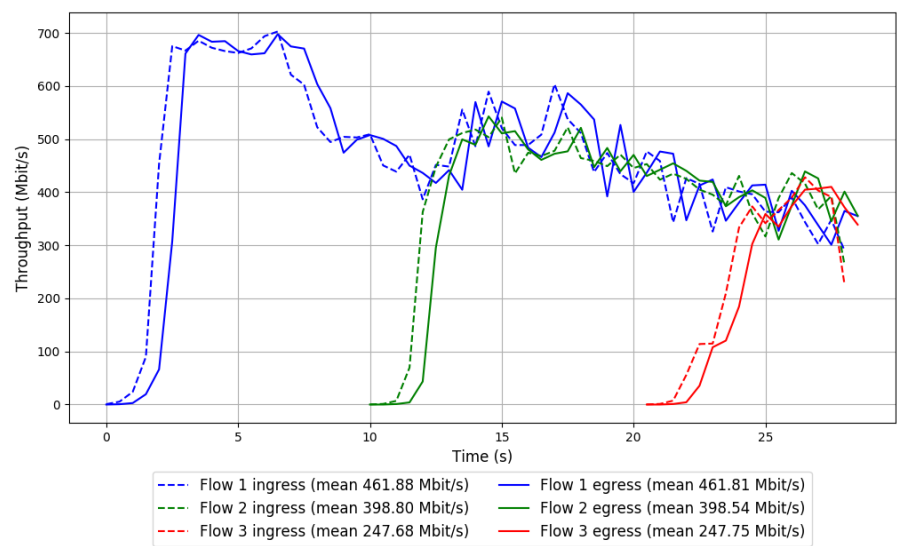


Run 4: Statistics of Indigo-MusesD

Start at: 2019-02-11 18:18:29
End at: 2019-02-11 18:18:59
Local clock offset: -1.552 ms
Remote clock offset: -0.503 ms

Below is generated by plot.py at 2019-02-11 20:56:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 782.19 Mbit/s
95th percentile per-packet one-way delay: 124.388 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 461.81 Mbit/s
95th percentile per-packet one-way delay: 133.185 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 398.54 Mbit/s
95th percentile per-packet one-way delay: 116.442 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 247.75 Mbit/s
95th percentile per-packet one-way delay: 114.079 ms
Loss rate: 0.00%

Run 4: Report of Indigo-MusesD — Data Link

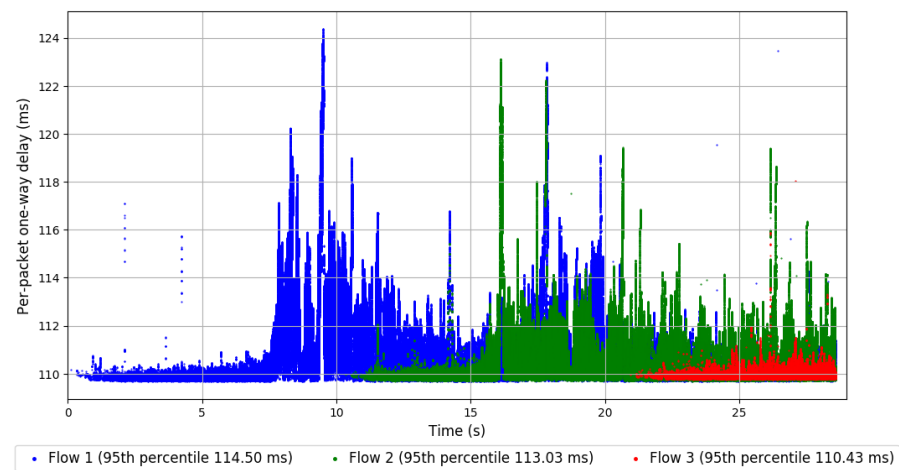
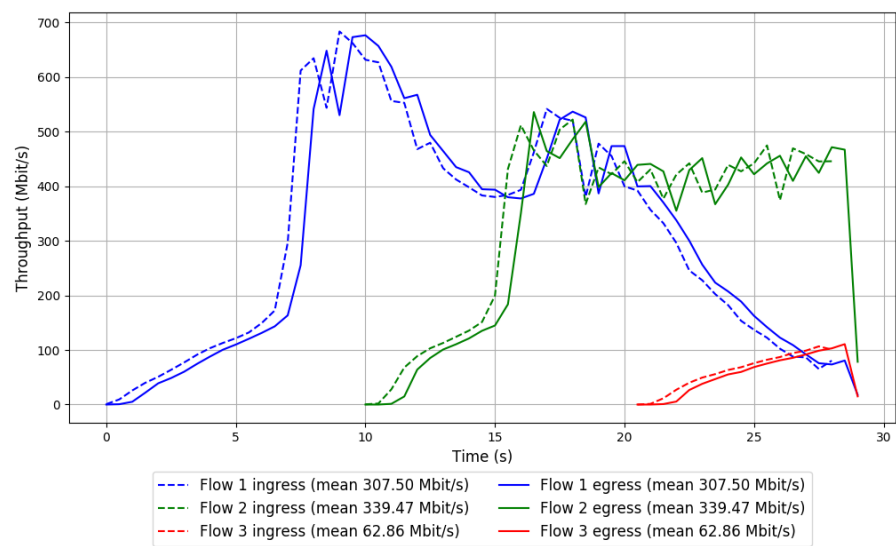


Run 5: Statistics of Indigo-MusesD

Start at: 2019-02-11 18:57:29
End at: 2019-02-11 18:57:59
Local clock offset: -0.678 ms
Remote clock offset: -0.005 ms

Below is generated by plot.py at 2019-02-11 20:56:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 541.95 Mbit/s
95th percentile per-packet one-way delay: 114.008 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 307.50 Mbit/s
95th percentile per-packet one-way delay: 114.503 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 339.47 Mbit/s
95th percentile per-packet one-way delay: 113.034 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 62.86 Mbit/s
95th percentile per-packet one-way delay: 110.430 ms
Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

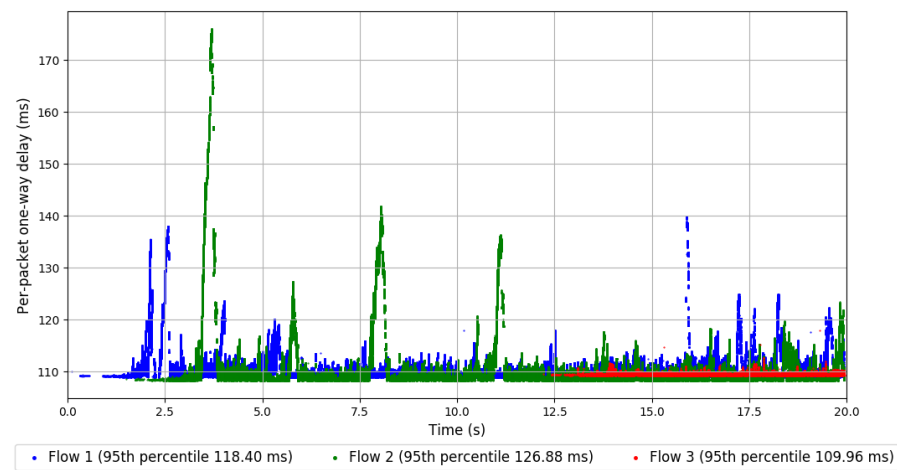
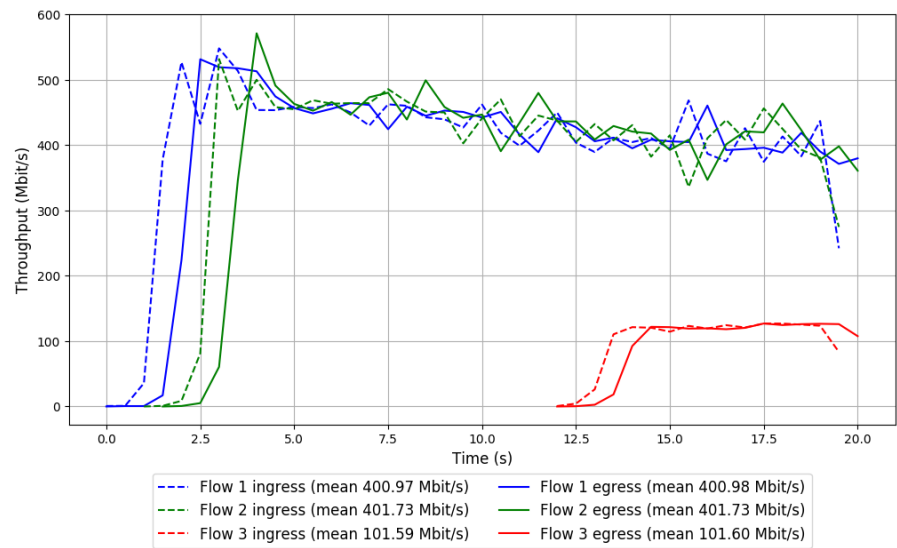
Start at: 2019-02-11 16:10:35

End at: 2019-02-11 16:11:05

Local clock offset: -0.091 ms

Remote clock offset: -0.101 ms

Run 1: Report of Indigo-MusesT — Data Link

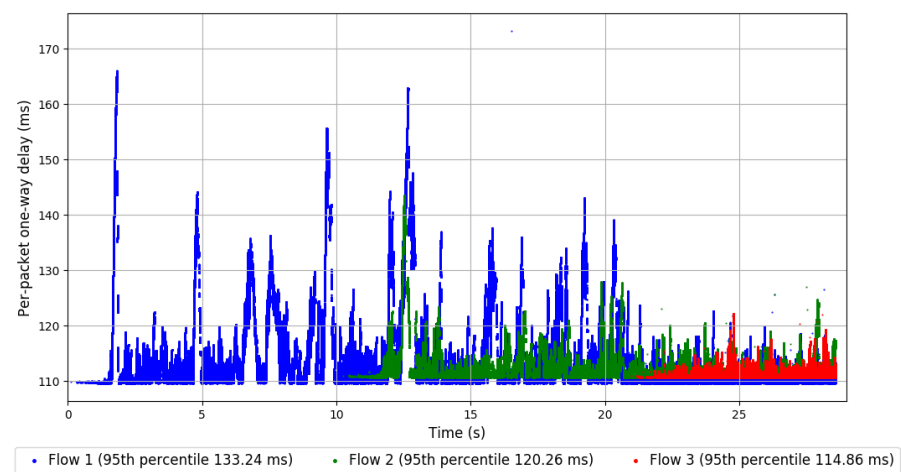
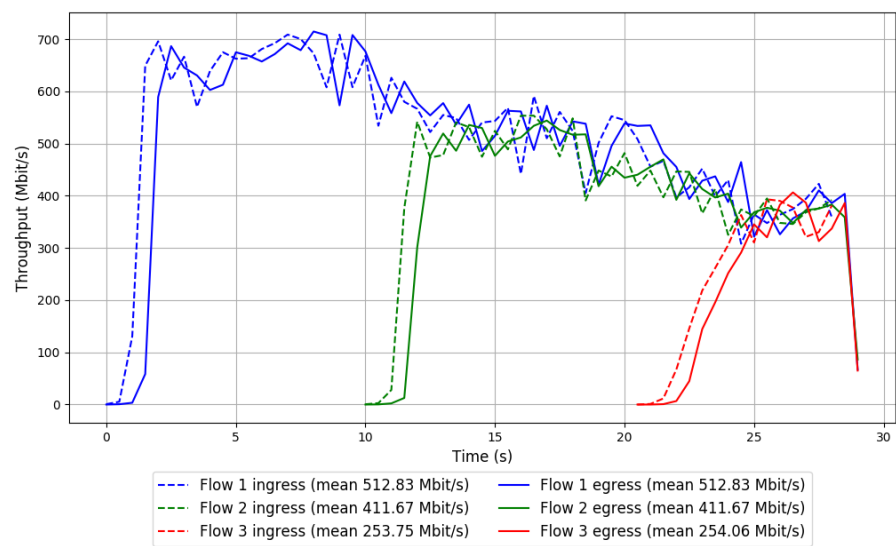


Run 2: Statistics of Indigo-MusesT

Start at: 2019-02-11 16:48:35
End at: 2019-02-11 16:49:05
Local clock offset: -1.306 ms
Remote clock offset: -0.092 ms

Below is generated by plot.py at 2019-02-11 21:03:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 845.93 Mbit/s
95th percentile per-packet one-way delay: 129.745 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 512.83 Mbit/s
95th percentile per-packet one-way delay: 133.239 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 411.67 Mbit/s
95th percentile per-packet one-way delay: 120.262 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 254.06 Mbit/s
95th percentile per-packet one-way delay: 114.863 ms
Loss rate: 0.00%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-02-11 17:27:01

End at: 2019-02-11 17:27:31

Local clock offset: 0.51 ms

Remote clock offset: 0.236 ms

Below is generated by plot.py at 2019-02-11 21:03:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 811.91 Mbit/s

95th percentile per-packet one-way delay: 125.695 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 474.52 Mbit/s

95th percentile per-packet one-way delay: 128.102 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 413.15 Mbit/s

95th percentile per-packet one-way delay: 119.612 ms

Loss rate: 0.00%

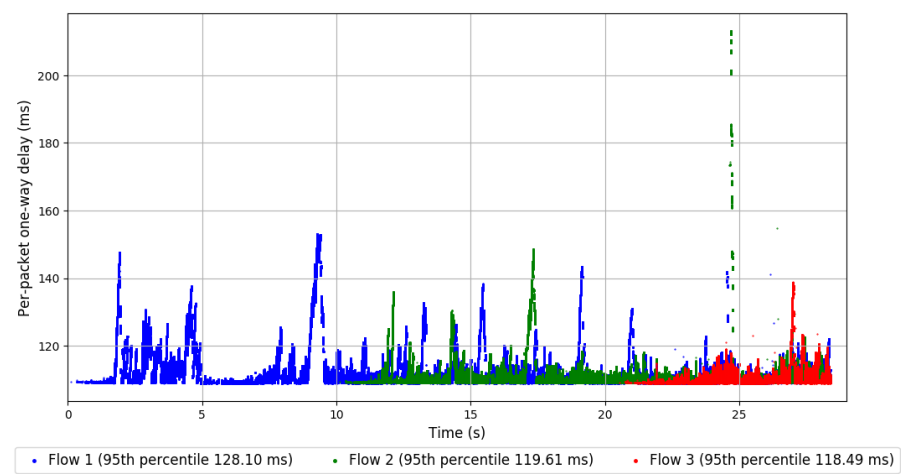
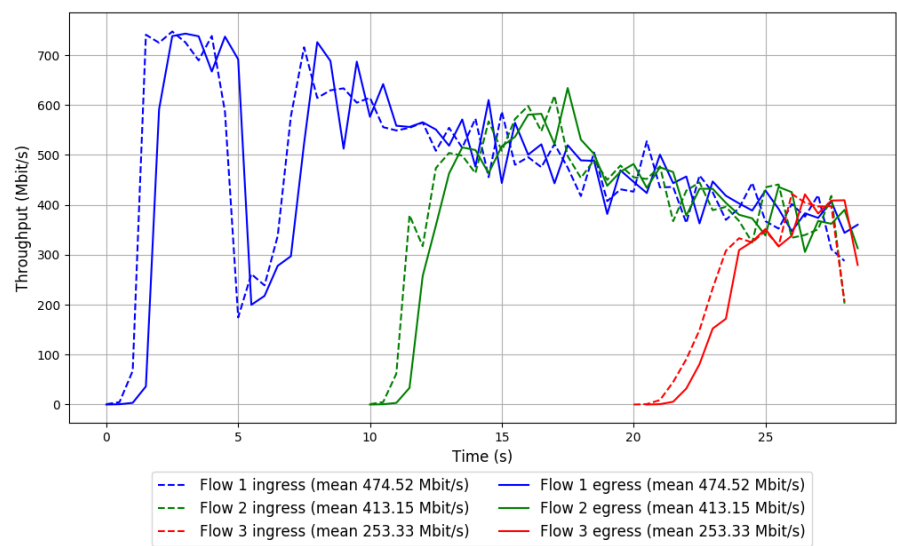
-- Flow 3:

Average throughput: 253.33 Mbit/s

95th percentile per-packet one-way delay: 118.493 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesT — Data Link

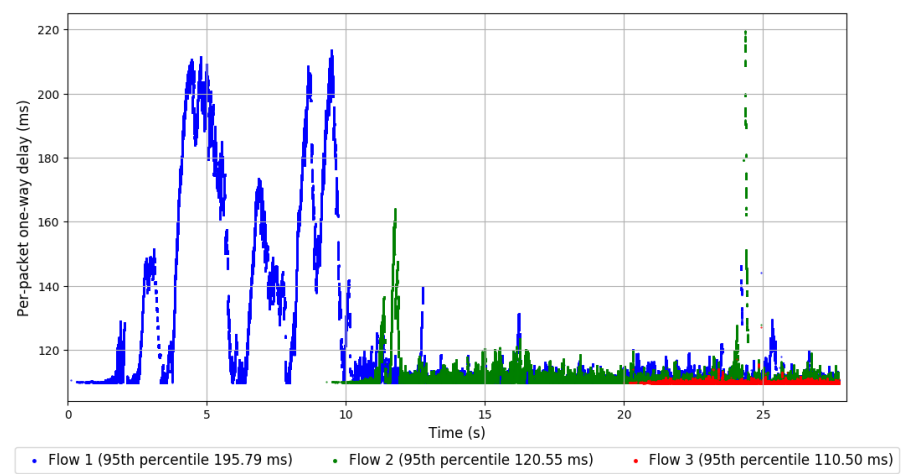
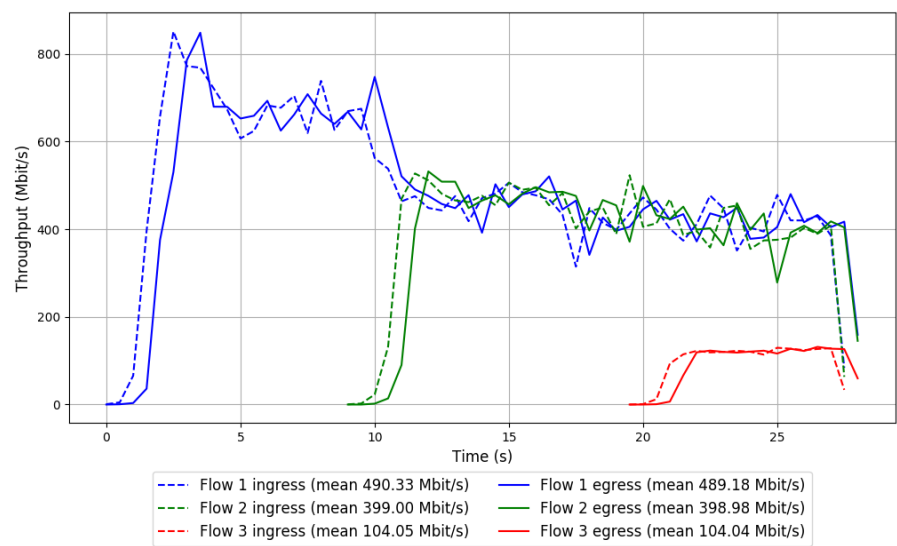


Run 4: Statistics of Indigo-MusesT

Start at: 2019-02-11 18:05:11
End at: 2019-02-11 18:05:41
Local clock offset: -0.803 ms
Remote clock offset: -0.152 ms

Below is generated by plot.py at 2019-02-11 21:04:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 784.69 Mbit/s
95th percentile per-packet one-way delay: 186.879 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 489.18 Mbit/s
95th percentile per-packet one-way delay: 195.795 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 398.98 Mbit/s
95th percentile per-packet one-way delay: 120.549 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 104.04 Mbit/s
95th percentile per-packet one-way delay: 110.501 ms
Loss rate: 0.00%

Run 4: Report of Indigo-MusesT — Data Link

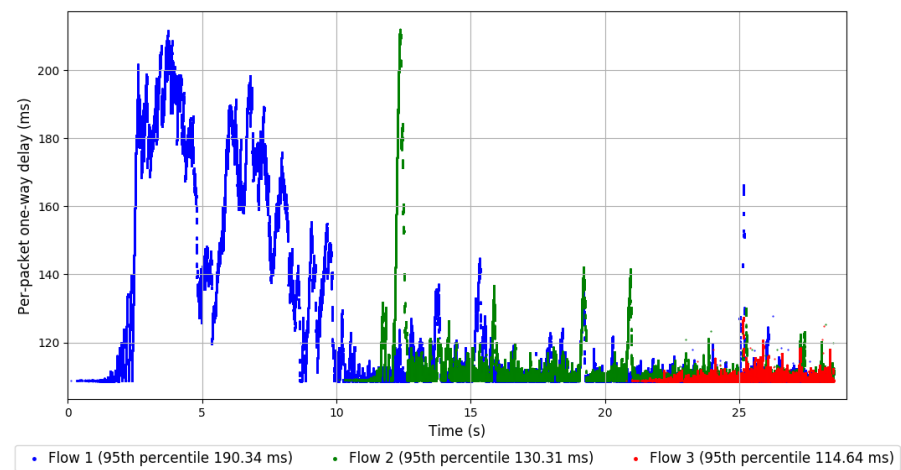
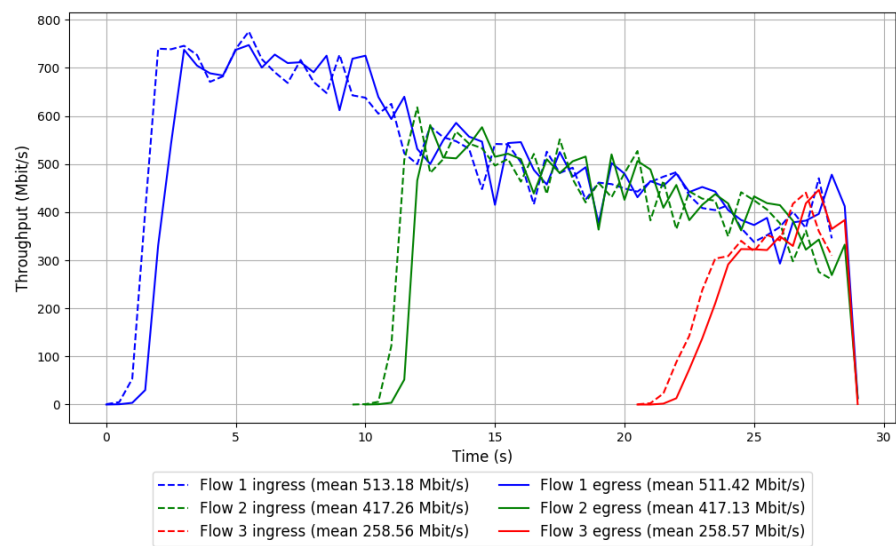


Run 5: Statistics of Indigo-MusesT

Start at: 2019-02-11 18:44:25
End at: 2019-02-11 18:44:55
Local clock offset: 0.299 ms
Remote clock offset: -0.017 ms

Below is generated by plot.py at 2019-02-11 21:05:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 851.99 Mbit/s
95th percentile per-packet one-way delay: 184.659 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 511.42 Mbit/s
95th percentile per-packet one-way delay: 190.337 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 417.13 Mbit/s
95th percentile per-packet one-way delay: 130.307 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 258.57 Mbit/s
95th percentile per-packet one-way delay: 114.641 ms
Loss rate: 0.00%

Run 5: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2019-02-11 16:21:54

End at: 2019-02-11 16:22:24

Local clock offset: -0.059 ms

Remote clock offset: -0.12 ms

Below is generated by plot.py at 2019-02-11 21:05:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.12 Mbit/s

95th percentile per-packet one-way delay: 109.685 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 109.382 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 5.26 Mbit/s

95th percentile per-packet one-way delay: 109.233 ms

Loss rate: 0.00%

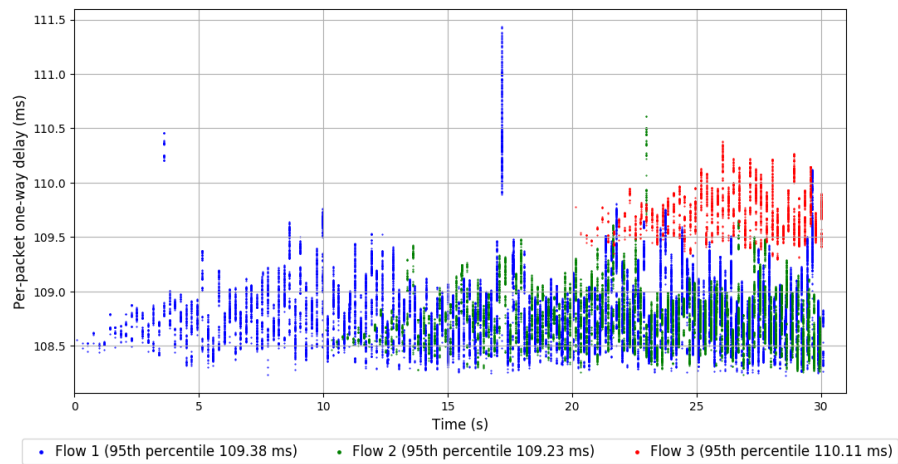
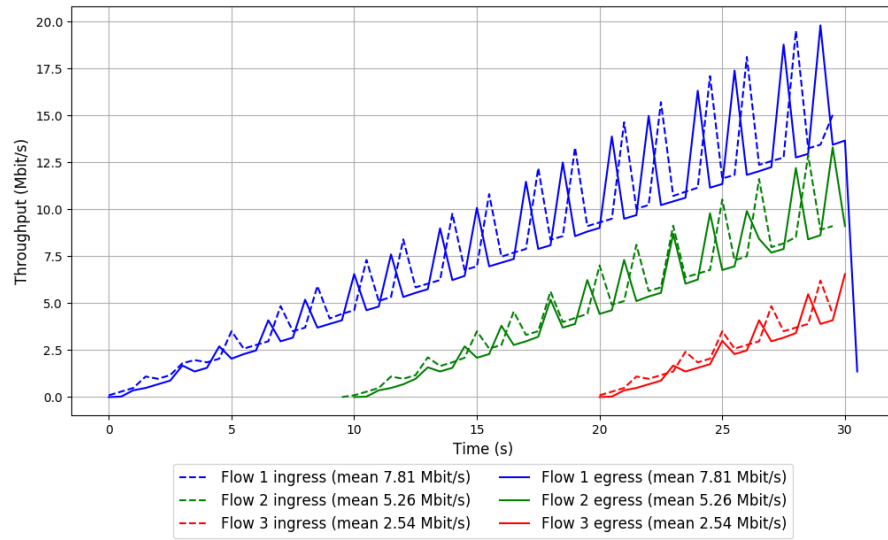
-- Flow 3:

Average throughput: 2.54 Mbit/s

95th percentile per-packet one-way delay: 110.109 ms

Loss rate: 0.00%

Run 1: Report of LEDBAT — Data Link

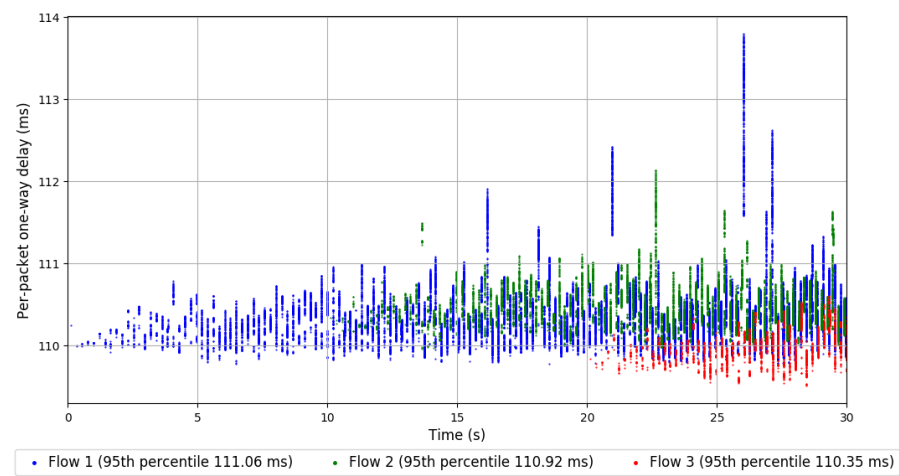
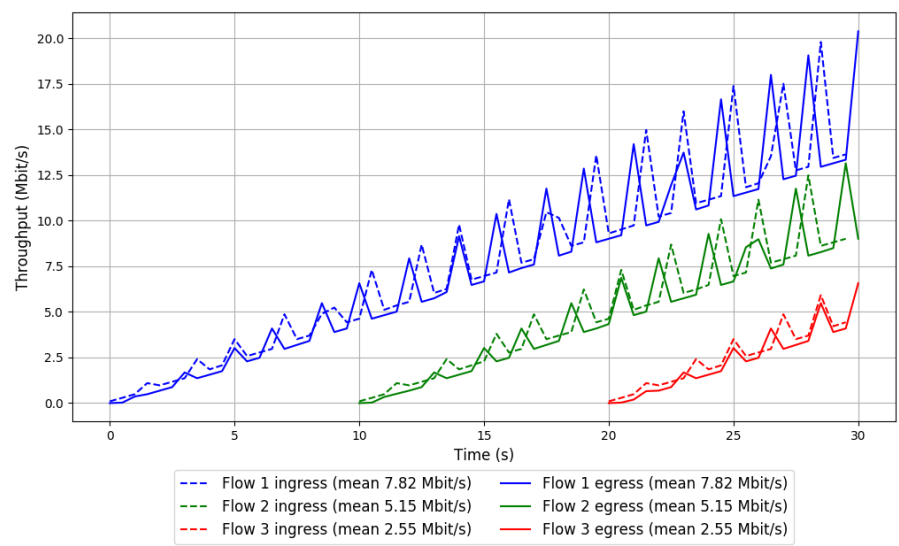


Run 2: Statistics of LEDBAT

Start at: 2019-02-11 17:00:30
End at: 2019-02-11 17:01:00
Local clock offset: -0.649 ms
Remote clock offset: -0.123 ms

Below is generated by plot.py at 2019-02-11 21:05:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.06 Mbit/s
95th percentile per-packet one-way delay: 110.963 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.82 Mbit/s
95th percentile per-packet one-way delay: 111.059 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.15 Mbit/s
95th percentile per-packet one-way delay: 110.922 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 110.348 ms
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

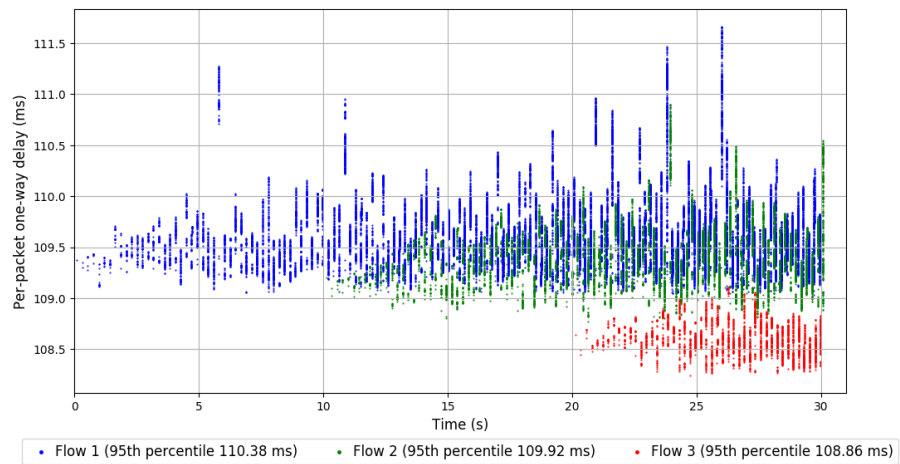
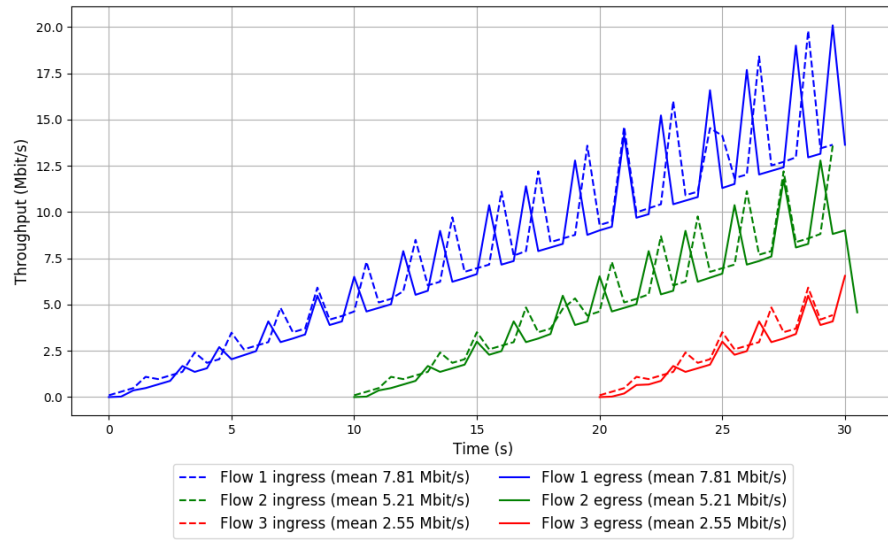


Run 3: Statistics of LEDBAT

Start at: 2019-02-11 17:38:24
End at: 2019-02-11 17:38:54
Local clock offset: 0.022 ms
Remote clock offset: -0.078 ms

Below is generated by plot.py at 2019-02-11 21:05:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.08 Mbit/s
95th percentile per-packet one-way delay: 110.215 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 110.379 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.21 Mbit/s
95th percentile per-packet one-way delay: 109.923 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 108.861 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

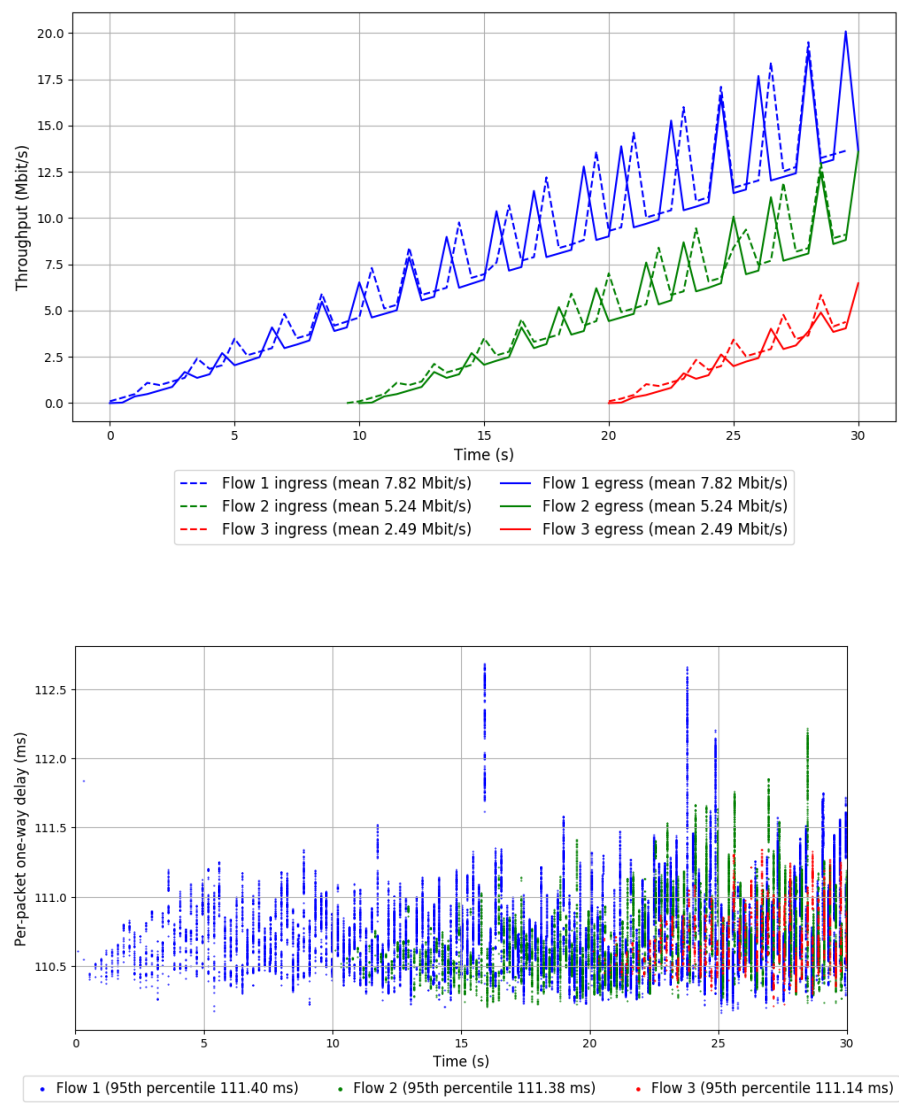


Run 4: Statistics of LEDBAT

Start at: 2019-02-11 18:17:11
End at: 2019-02-11 18:17:41
Local clock offset: -1.444 ms
Remote clock offset: -0.139 ms

Below is generated by plot.py at 2019-02-11 21:05:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.11 Mbit/s
95th percentile per-packet one-way delay: 111.379 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.82 Mbit/s
95th percentile per-packet one-way delay: 111.399 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.24 Mbit/s
95th percentile per-packet one-way delay: 111.380 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.49 Mbit/s
95th percentile per-packet one-way delay: 111.136 ms
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

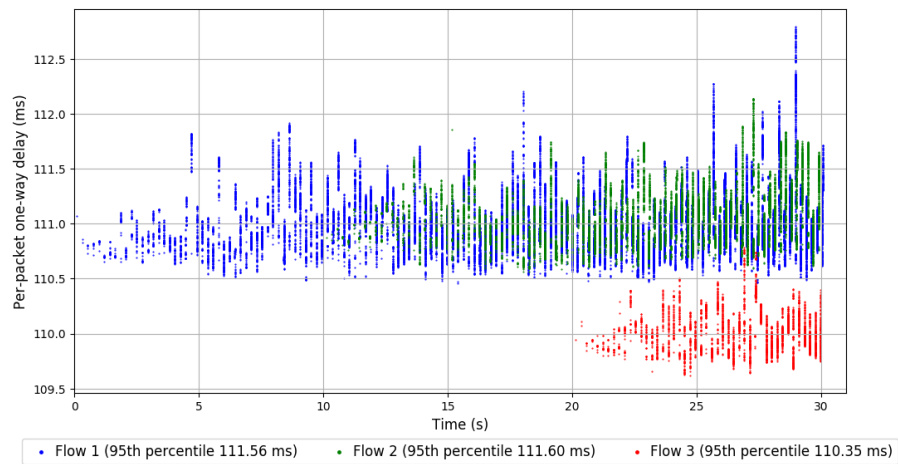
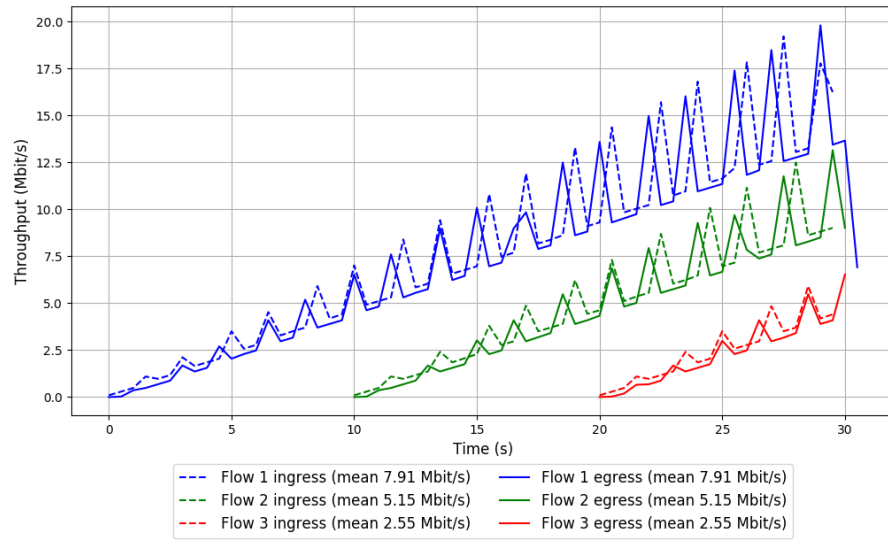


Run 5: Statistics of LEDBAT

Start at: 2019-02-11 18:56:11
End at: 2019-02-11 18:56:41
Local clock offset: -1.393 ms
Remote clock offset: -0.027 ms

Below is generated by plot.py at 2019-02-11 21:05:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.15 Mbit/s
95th percentile per-packet one-way delay: 111.560 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.91 Mbit/s
95th percentile per-packet one-way delay: 111.560 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.15 Mbit/s
95th percentile per-packet one-way delay: 111.603 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 110.352 ms
Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

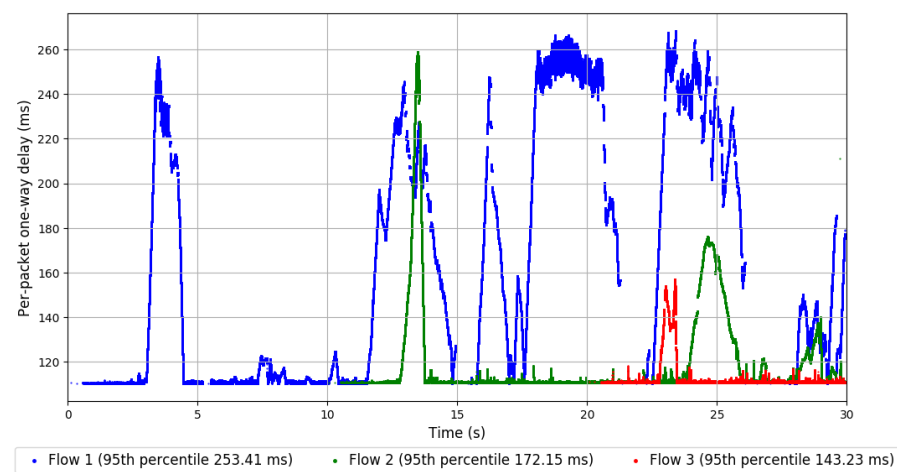
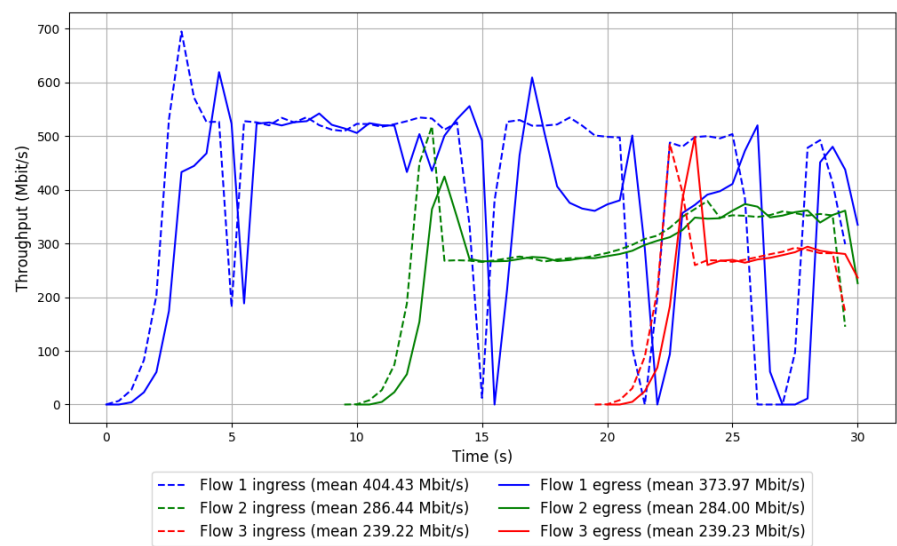


Run 1: Statistics of PCC-Allegro

Start at: 2019-02-11 16:18:05
End at: 2019-02-11 16:18:35
Local clock offset: -1.321 ms
Remote clock offset: -0.089 ms

Below is generated by plot.py at 2019-02-11 21:17:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 642.09 Mbit/s
95th percentile per-packet one-way delay: 249.303 ms
Loss rate: 4.76%
-- Flow 1:
Average throughput: 373.97 Mbit/s
95th percentile per-packet one-way delay: 253.406 ms
Loss rate: 7.53%
-- Flow 2:
Average throughput: 284.00 Mbit/s
95th percentile per-packet one-way delay: 172.148 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 239.23 Mbit/s
95th percentile per-packet one-way delay: 143.233 ms
Loss rate: 0.00%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-02-11 16:56:27

End at: 2019-02-11 16:56:57

Local clock offset: -0.617 ms

Remote clock offset: 0.212 ms

Below is generated by plot.py at 2019-02-11 21:22:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 737.92 Mbit/s

95th percentile per-packet one-way delay: 241.013 ms

Loss rate: 6.42%

-- Flow 1:

Average throughput: 387.43 Mbit/s

95th percentile per-packet one-way delay: 241.326 ms

Loss rate: 6.24%

-- Flow 2:

Average throughput: 360.50 Mbit/s

95th percentile per-packet one-way delay: 242.056 ms

Loss rate: 6.99%

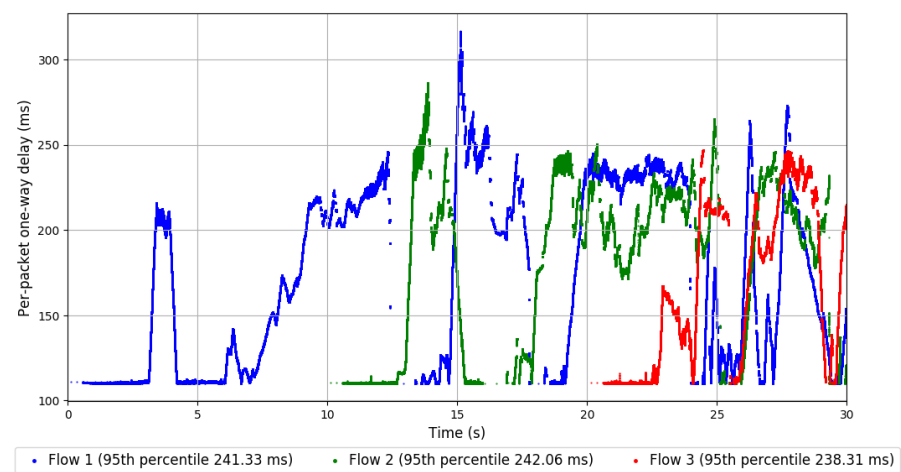
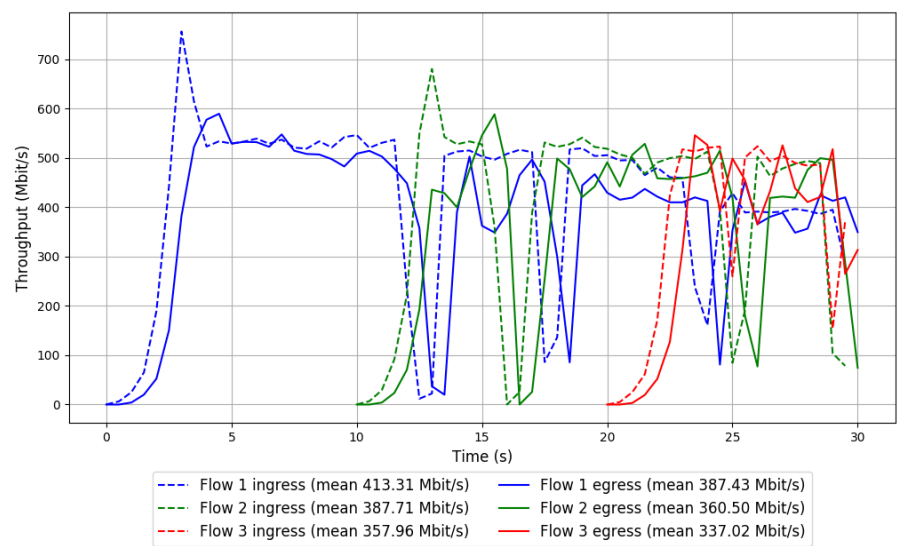
-- Flow 3:

Average throughput: 337.02 Mbit/s

95th percentile per-packet one-way delay: 238.309 ms

Loss rate: 5.80%

Run 2: Report of PCC-Allegro — Data Link

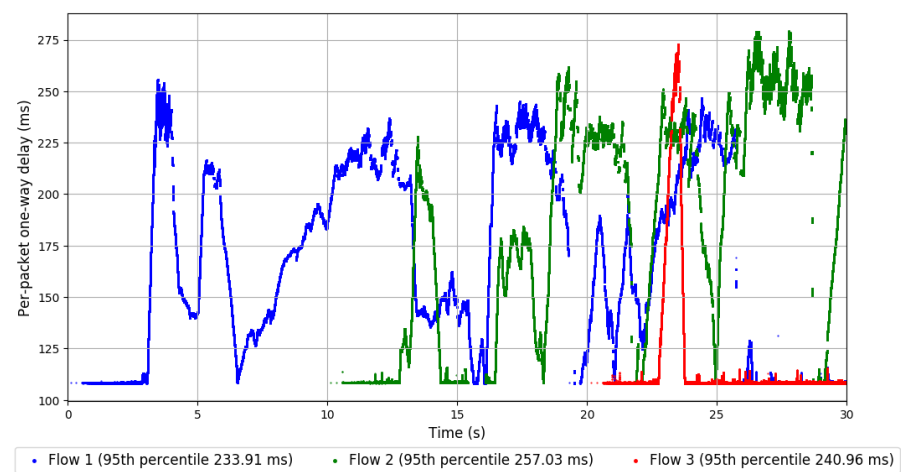
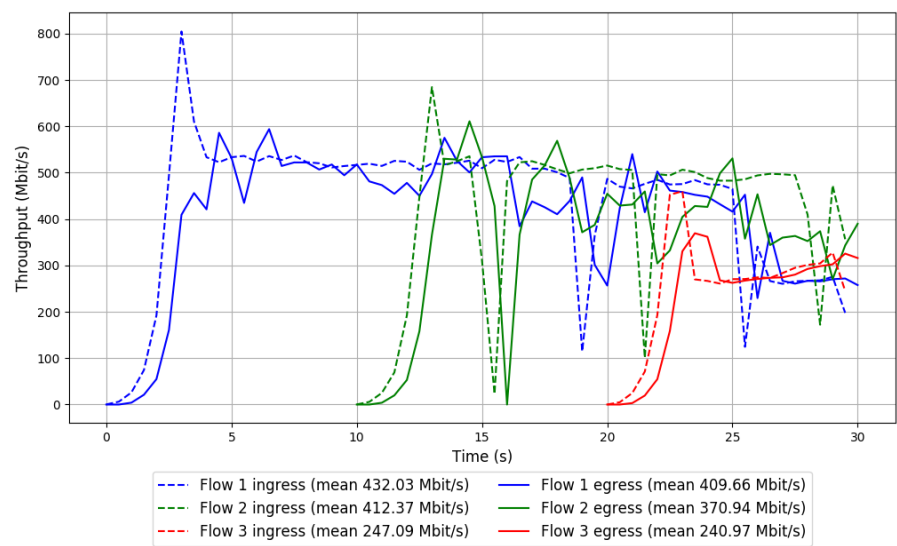


Run 3: Statistics of PCC-Allegro

Start at: 2019-02-11 17:34:38
End at: 2019-02-11 17:35:08
Local clock offset: 0.224 ms
Remote clock offset: -0.038 ms

Below is generated by plot.py at 2019-02-11 21:22:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 735.37 Mbit/s
95th percentile per-packet one-way delay: 245.617 ms
Loss rate: 6.59%
-- Flow 1:
Average throughput: 409.66 Mbit/s
95th percentile per-packet one-way delay: 233.906 ms
Loss rate: 5.18%
-- Flow 2:
Average throughput: 370.94 Mbit/s
95th percentile per-packet one-way delay: 257.027 ms
Loss rate: 10.04%
-- Flow 3:
Average throughput: 240.97 Mbit/s
95th percentile per-packet one-way delay: 240.956 ms
Loss rate: 2.48%

Run 3: Report of PCC-Allegro — Data Link

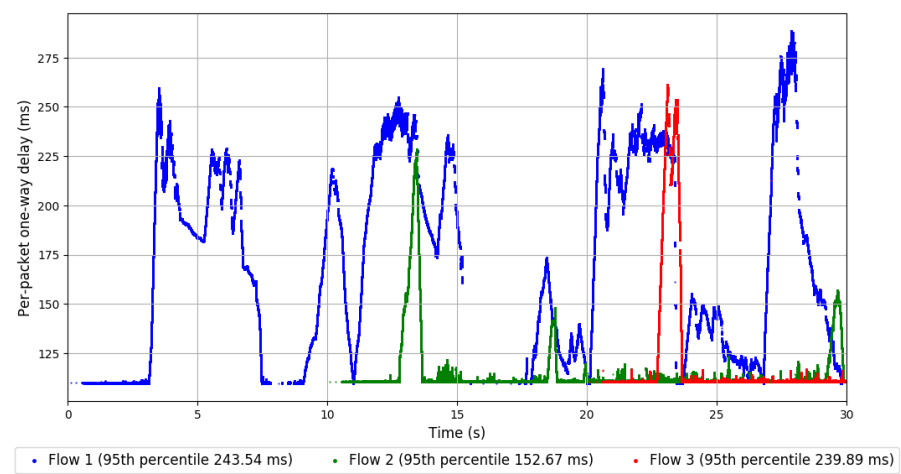
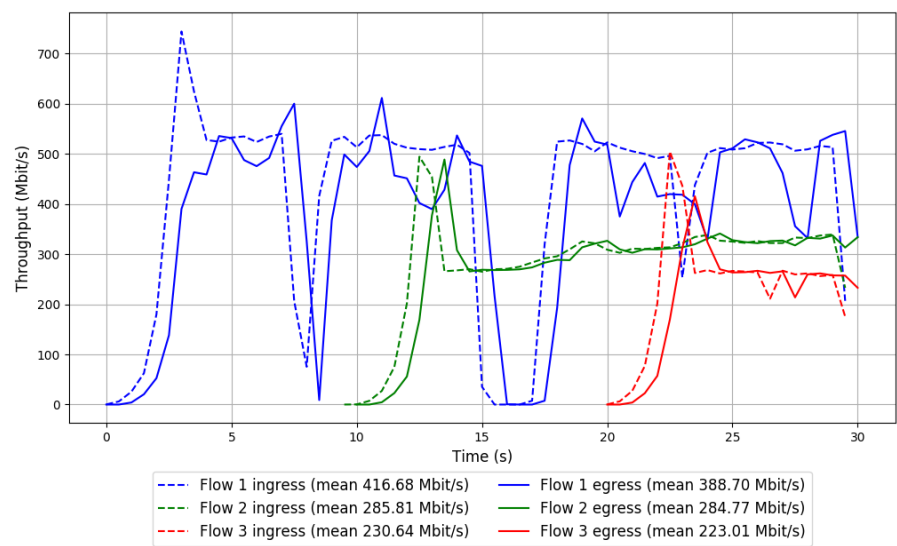


Run 4: Statistics of PCC-Allegro

Start at: 2019-02-11 18:13:03
End at: 2019-02-11 18:13:33
Local clock offset: -1.569 ms
Remote clock offset: -0.103 ms

```
# Below is generated by plot.py at 2019-02-11 21:22:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 649.78 Mbit/s
95th percentile per-packet one-way delay: 238.973 ms
Loss rate: 4.56%
-- Flow 1:
Average throughput: 388.70 Mbit/s
95th percentile per-packet one-way delay: 243.536 ms
Loss rate: 6.71%
-- Flow 2:
Average throughput: 284.77 Mbit/s
95th percentile per-packet one-way delay: 152.668 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 223.01 Mbit/s
95th percentile per-packet one-way delay: 239.892 ms
Loss rate: 3.31%
```

Run 4: Report of PCC-Allegro — Data Link

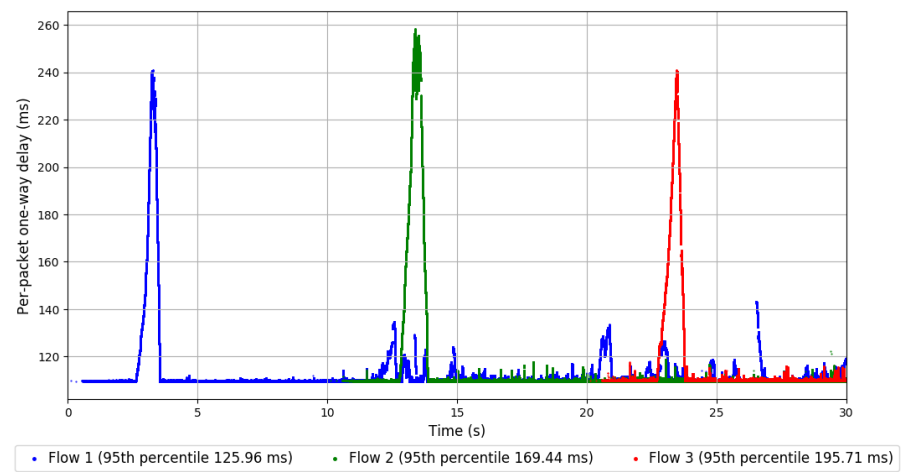
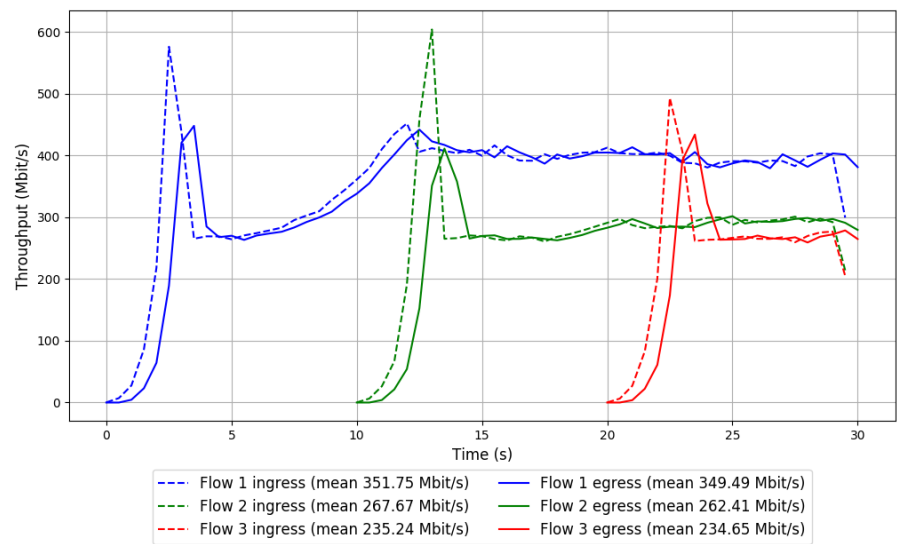


Run 5: Statistics of PCC-Allegro

Start at: 2019-02-11 18:52:17
End at: 2019-02-11 18:52:47
Local clock offset: -0.706 ms
Remote clock offset: -0.104 ms

Below is generated by plot.py at 2019-02-11 21:26:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 601.14 Mbit/s
95th percentile per-packet one-way delay: 141.547 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 349.49 Mbit/s
95th percentile per-packet one-way delay: 125.958 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 262.41 Mbit/s
95th percentile per-packet one-way delay: 169.443 ms
Loss rate: 1.97%
-- Flow 3:
Average throughput: 234.65 Mbit/s
95th percentile per-packet one-way delay: 195.710 ms
Loss rate: 0.25%

Run 5: Report of PCC-Allegro — Data Link

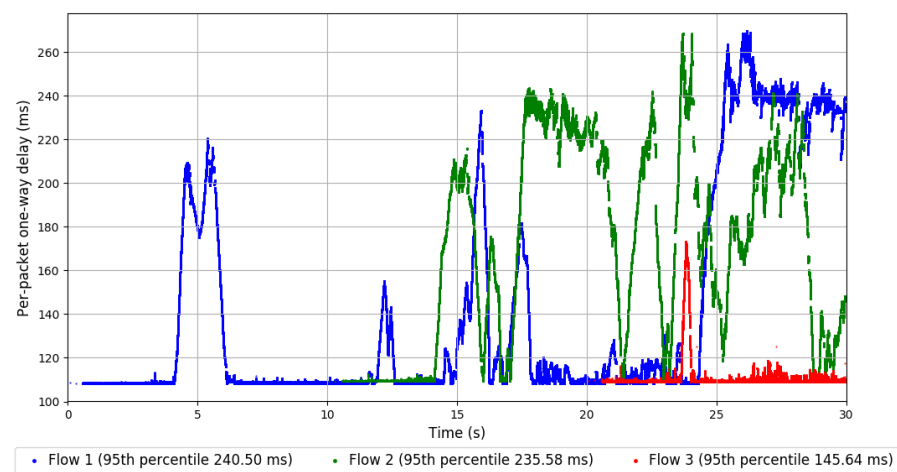
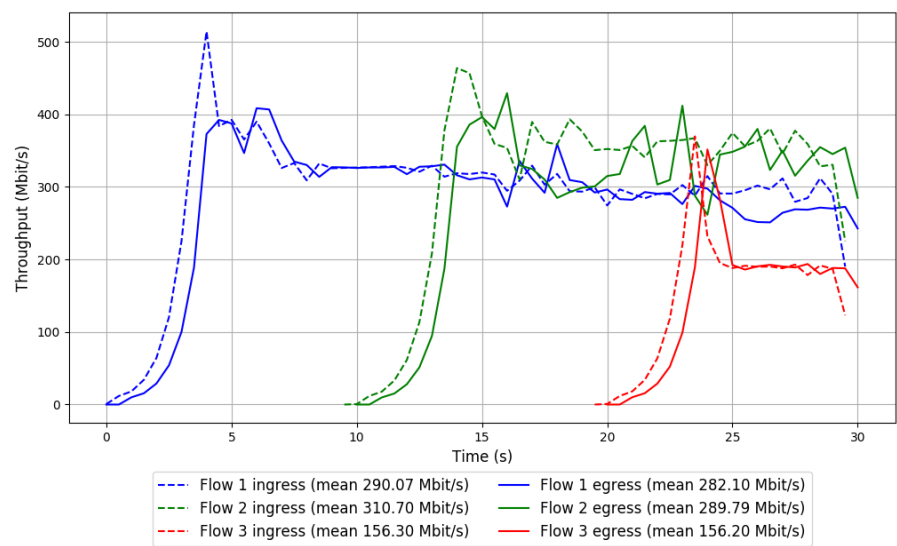


Run 1: Statistics of PCC-Expr

Start at: 2019-02-11 16:31:53
End at: 2019-02-11 16:32:23
Local clock offset: -0.028 ms
Remote clock offset: -0.089 ms

Below is generated by plot.py at 2019-02-11 21:26:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 526.81 Mbit/s
95th percentile per-packet one-way delay: 238.407 ms
Loss rate: 4.07%
-- Flow 1:
Average throughput: 282.10 Mbit/s
95th percentile per-packet one-way delay: 240.499 ms
Loss rate: 2.75%
-- Flow 2:
Average throughput: 289.79 Mbit/s
95th percentile per-packet one-way delay: 235.580 ms
Loss rate: 6.91%
-- Flow 3:
Average throughput: 156.20 Mbit/s
95th percentile per-packet one-way delay: 145.644 ms
Loss rate: 0.08%

Run 1: Report of PCC-Expr — Data Link

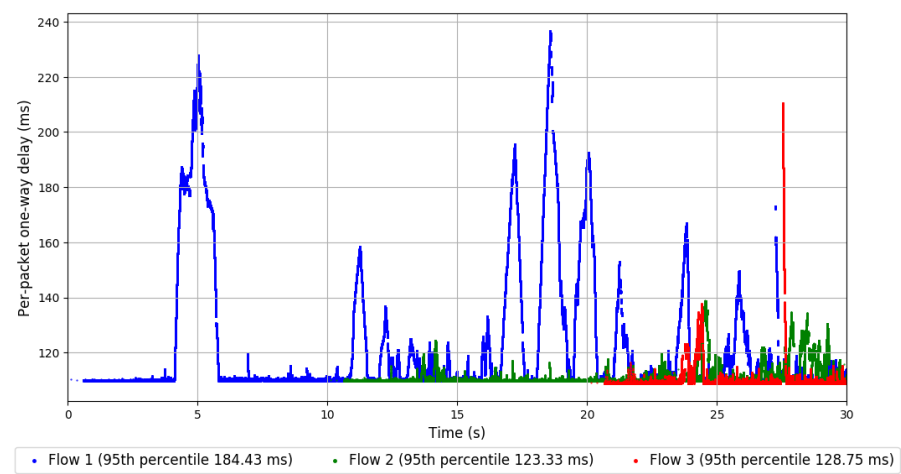
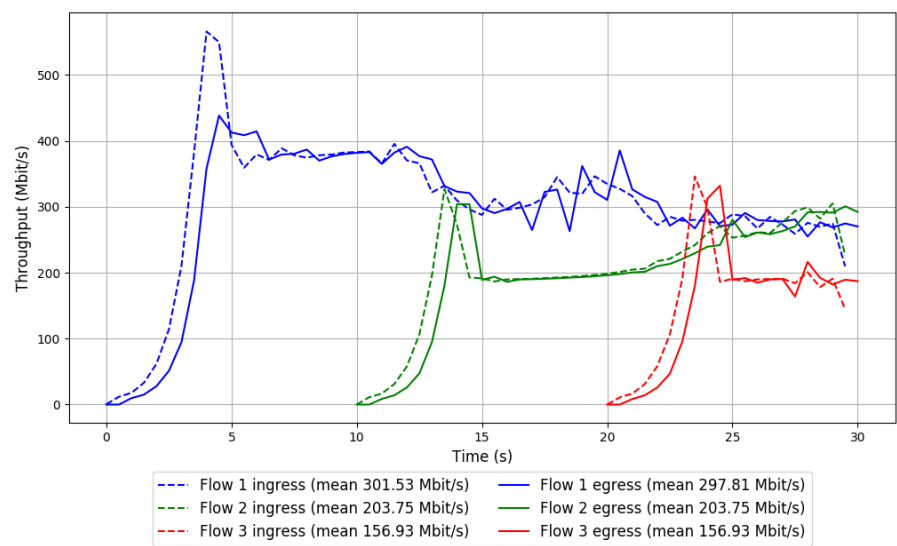


Run 2: Statistics of PCC-Expr

Start at: 2019-02-11 17:10:29
End at: 2019-02-11 17:10:59
Local clock offset: -0.69 ms
Remote clock offset: -0.152 ms

Below is generated by plot.py at 2019-02-11 21:27:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 485.00 Mbit/s
95th percentile per-packet one-way delay: 178.295 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 297.81 Mbit/s
95th percentile per-packet one-way delay: 184.428 ms
Loss rate: 1.24%
-- Flow 2:
Average throughput: 203.75 Mbit/s
95th percentile per-packet one-way delay: 123.327 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 156.93 Mbit/s
95th percentile per-packet one-way delay: 128.747 ms
Loss rate: 0.00%

Run 2: Report of PCC-Expr — Data Link

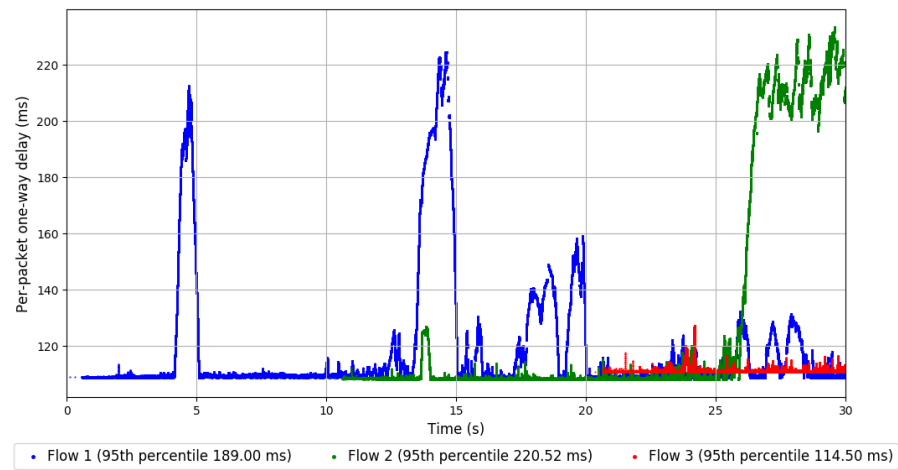
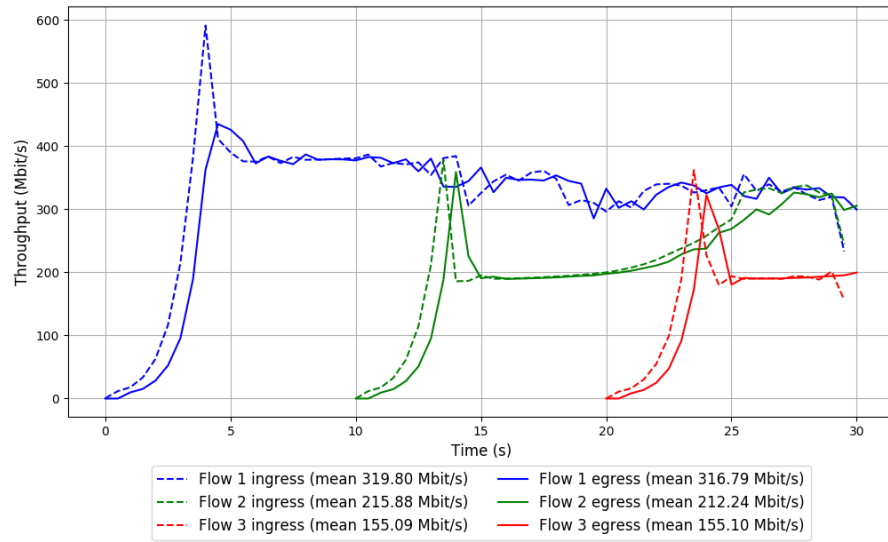


Run 3: Statistics of PCC-Expr

Start at: 2019-02-11 17:48:12
End at: 2019-02-11 17:48:42
Local clock offset: 0.019 ms
Remote clock offset: -0.108 ms

Below is generated by plot.py at 2019-02-11 21:27:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 509.08 Mbit/s
95th percentile per-packet one-way delay: 211.047 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 316.79 Mbit/s
95th percentile per-packet one-way delay: 188.999 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 212.24 Mbit/s
95th percentile per-packet one-way delay: 220.524 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 155.10 Mbit/s
95th percentile per-packet one-way delay: 114.495 ms
Loss rate: 0.01%

Run 3: Report of PCC-Expr — Data Link

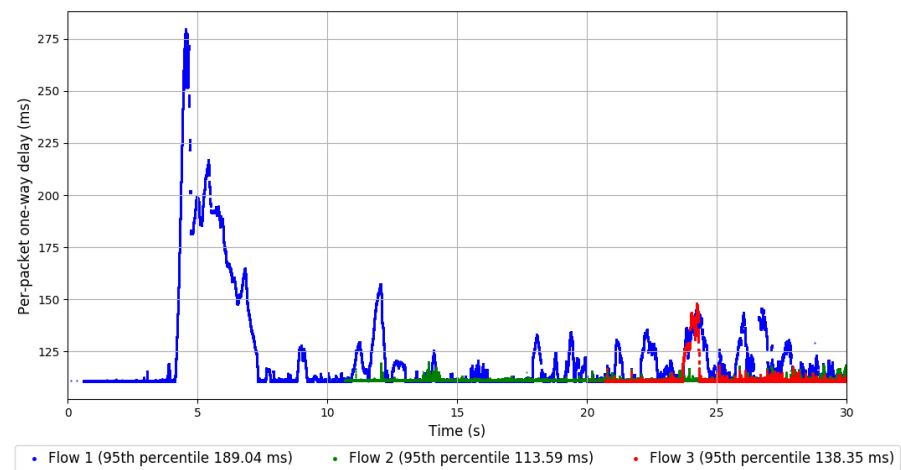
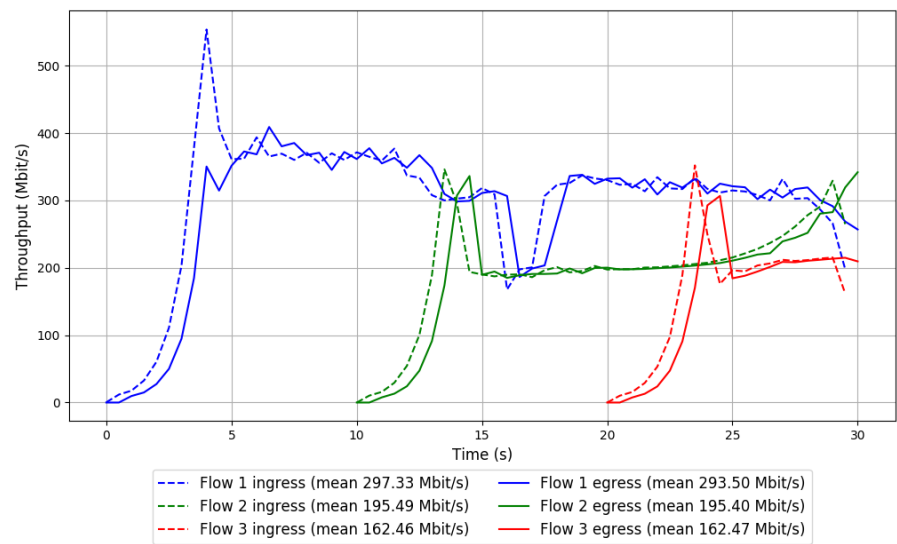


Run 4: Statistics of PCC-Expr

Start at: 2019-02-11 18:27:19
End at: 2019-02-11 18:27:49
Local clock offset: -1.605 ms
Remote clock offset: -0.121 ms

Below is generated by plot.py at 2019-02-11 21:36:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 476.86 Mbit/s
95th percentile per-packet one-way delay: 163.989 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 293.50 Mbit/s
95th percentile per-packet one-way delay: 189.045 ms
Loss rate: 1.29%
-- Flow 2:
Average throughput: 195.40 Mbit/s
95th percentile per-packet one-way delay: 113.592 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 162.47 Mbit/s
95th percentile per-packet one-way delay: 138.354 ms
Loss rate: 0.00%

Run 4: Report of PCC-Expr — Data Link

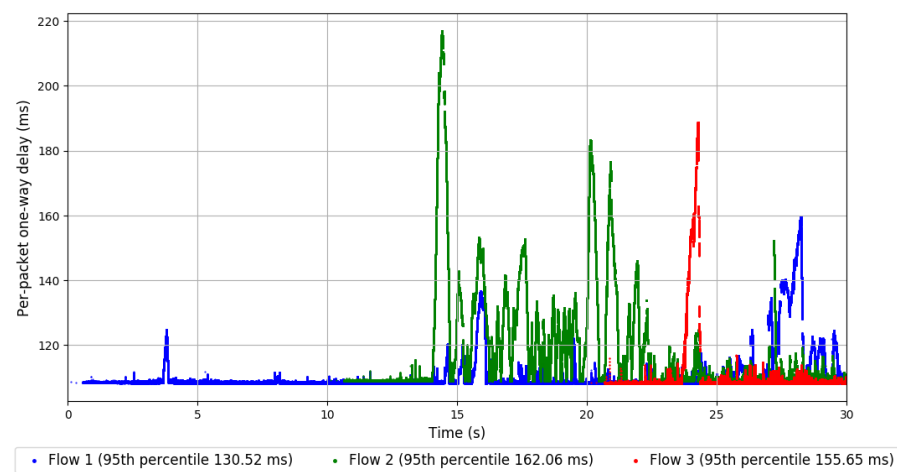
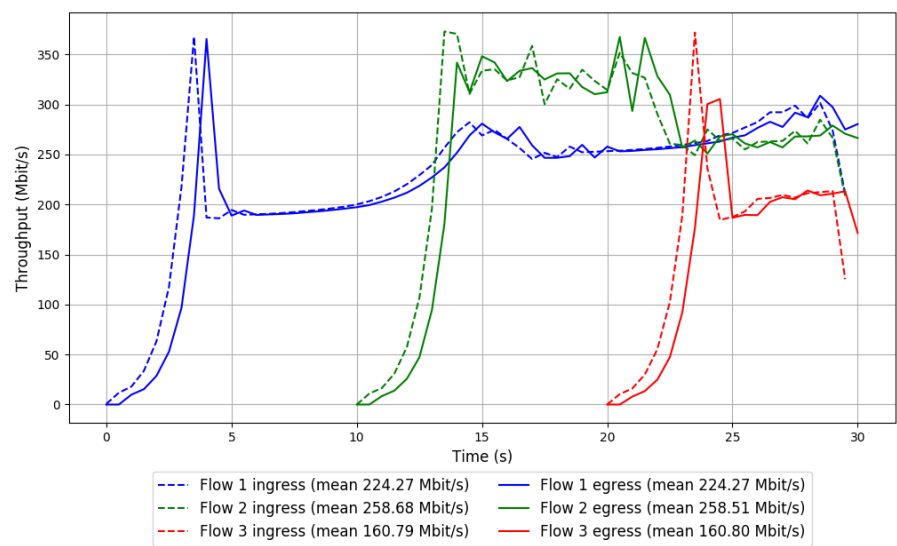


Run 5: Statistics of PCC-Expr

Start at: 2019-02-11 19:06:05
End at: 2019-02-11 19:06:35
Local clock offset: 0.025 ms
Remote clock offset: -0.062 ms

Below is generated by plot.py at 2019-02-11 21:36:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 449.10 Mbit/s
95th percentile per-packet one-way delay: 147.419 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 224.27 Mbit/s
95th percentile per-packet one-way delay: 130.524 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 258.51 Mbit/s
95th percentile per-packet one-way delay: 162.057 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 160.80 Mbit/s
95th percentile per-packet one-way delay: 155.646 ms
Loss rate: 0.00%

Run 5: Report of PCC-Expr — Data Link

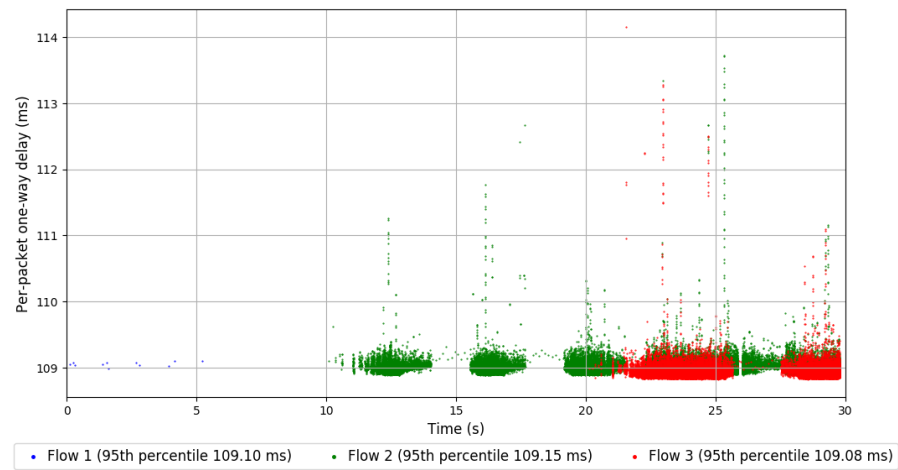
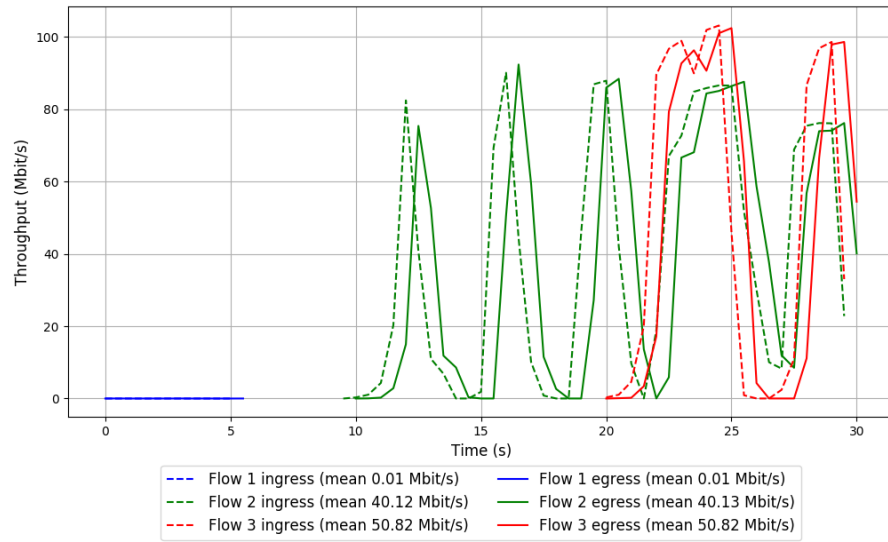


Run 1: Statistics of QUIC Cubic

Start at: 2019-02-11 16:07:12
End at: 2019-02-11 16:07:42
Local clock offset: -0.669 ms
Remote clock offset: -0.096 ms

Below is generated by plot.py at 2019-02-11 21:36:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 43.16 Mbit/s
95th percentile per-packet one-way delay: 109.128 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 109.104 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.13 Mbit/s
95th percentile per-packet one-way delay: 109.147 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 50.82 Mbit/s
95th percentile per-packet one-way delay: 109.077 ms
Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-02-11 16:45:10

End at: 2019-02-11 16:45:40

Local clock offset: -0.476 ms

Remote clock offset: 0.221 ms

Below is generated by plot.py at 2019-02-11 21:36:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 100.42 Mbit/s

95th percentile per-packet one-way delay: 109.997 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 58.84 Mbit/s

95th percentile per-packet one-way delay: 109.896 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.23 Mbit/s

95th percentile per-packet one-way delay: 109.269 ms

Loss rate: 0.00%

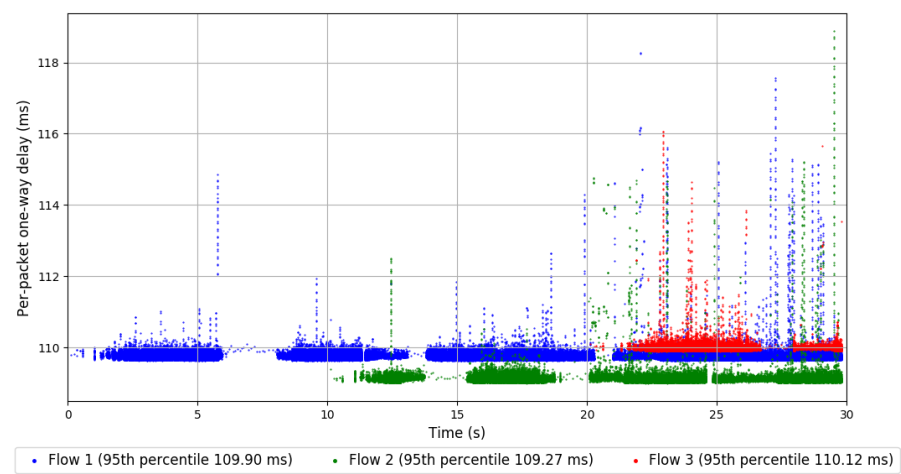
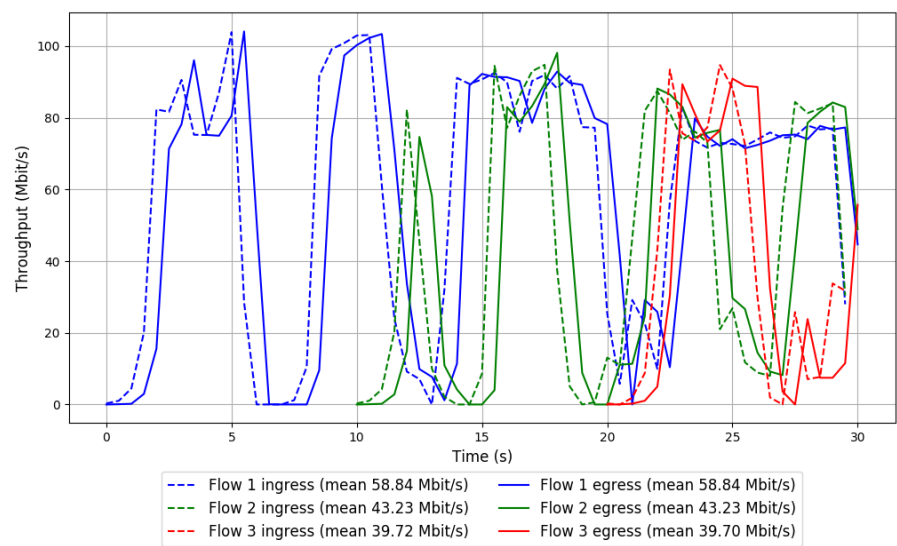
-- Flow 3:

Average throughput: 39.70 Mbit/s

95th percentile per-packet one-way delay: 110.120 ms

Loss rate: 0.01%

Run 2: Report of QUIC Cubic — Data Link

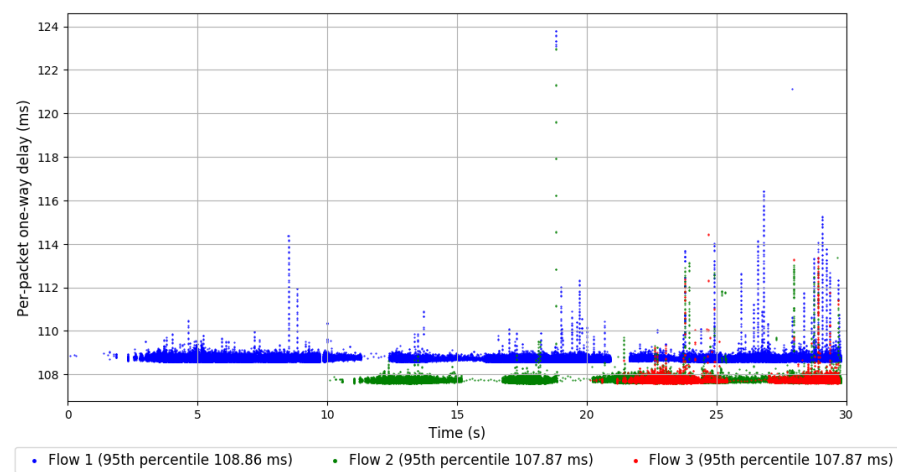
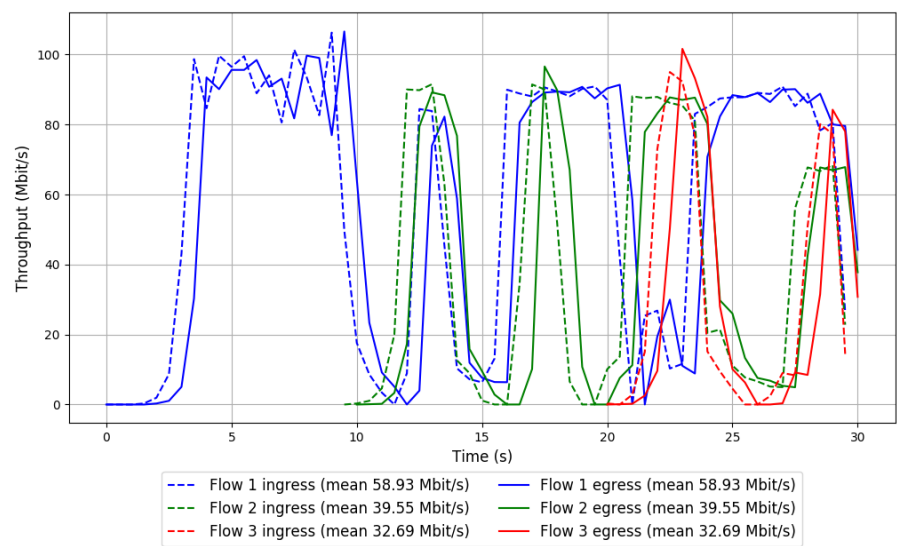


Run 3: Statistics of QUIC Cubic

Start at: 2019-02-11 17:23:34
End at: 2019-02-11 17:24:04
Local clock offset: 0.582 ms
Remote clock offset: -0.182 ms

Below is generated by plot.py at 2019-02-11 21:36:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.72 Mbit/s
95th percentile per-packet one-way delay: 108.828 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.93 Mbit/s
95th percentile per-packet one-way delay: 108.862 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.55 Mbit/s
95th percentile per-packet one-way delay: 107.872 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 32.69 Mbit/s
95th percentile per-packet one-way delay: 107.869 ms
Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link

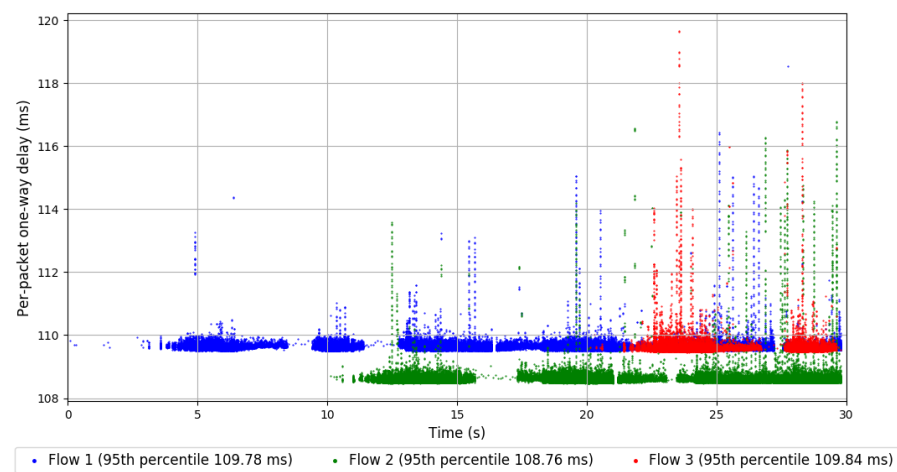
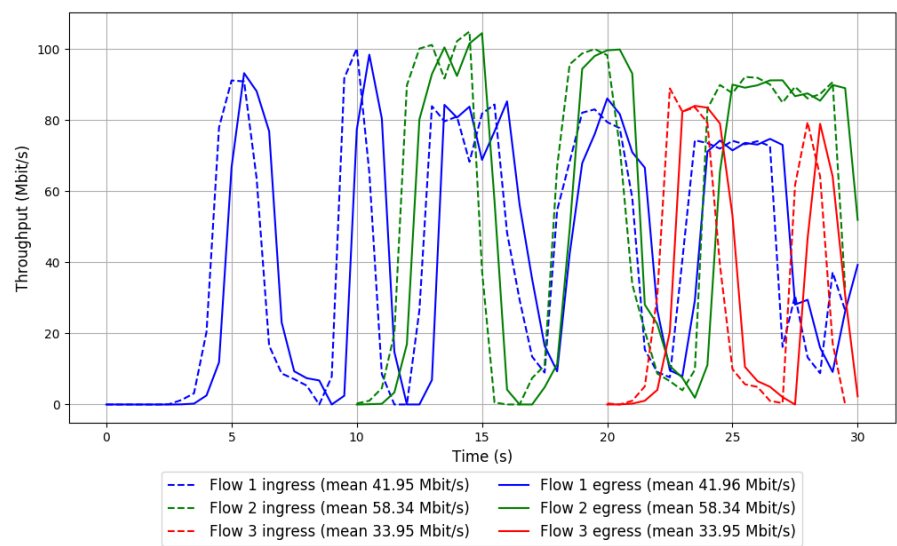


Run 4: Statistics of QUIC Cubic

Start at: 2019-02-11 18:01:44
End at: 2019-02-11 18:02:14
Local clock offset: -0.364 ms
Remote clock offset: -0.127 ms

Below is generated by plot.py at 2019-02-11 21:36:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.67 Mbit/s
95th percentile per-packet one-way delay: 109.740 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.96 Mbit/s
95th percentile per-packet one-way delay: 109.775 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 58.34 Mbit/s
95th percentile per-packet one-way delay: 108.760 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 33.95 Mbit/s
95th percentile per-packet one-way delay: 109.839 ms
Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link

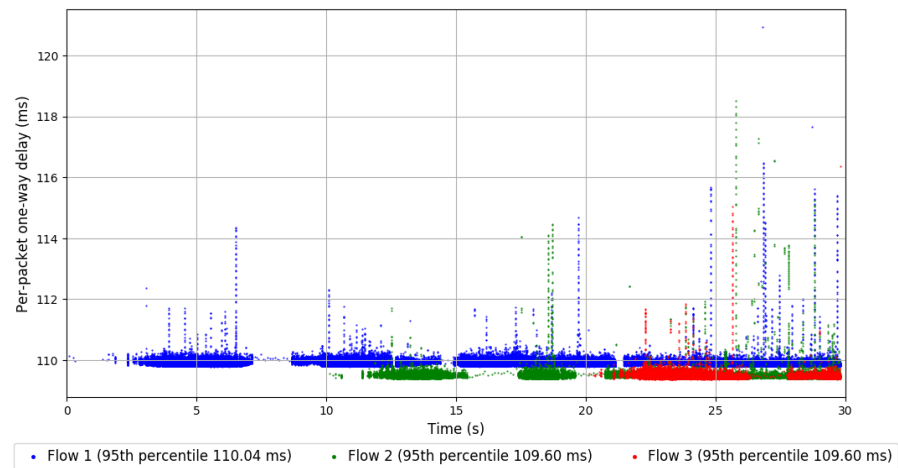
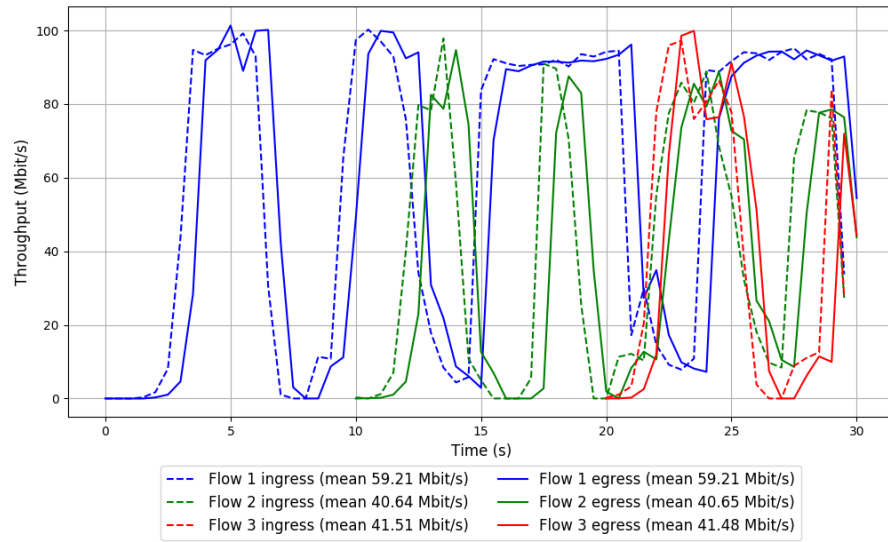


Run 5: Statistics of QUIC Cubic

Start at: 2019-02-11 18:40:55
End at: 2019-02-11 18:41:25
Local clock offset: -0.599 ms
Remote clock offset: -0.129 ms

Below is generated by plot.py at 2019-02-11 21:36:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 99.65 Mbit/s
95th percentile per-packet one-way delay: 110.008 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.21 Mbit/s
95th percentile per-packet one-way delay: 110.041 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.65 Mbit/s
95th percentile per-packet one-way delay: 109.596 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 41.48 Mbit/s
95th percentile per-packet one-way delay: 109.601 ms
Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

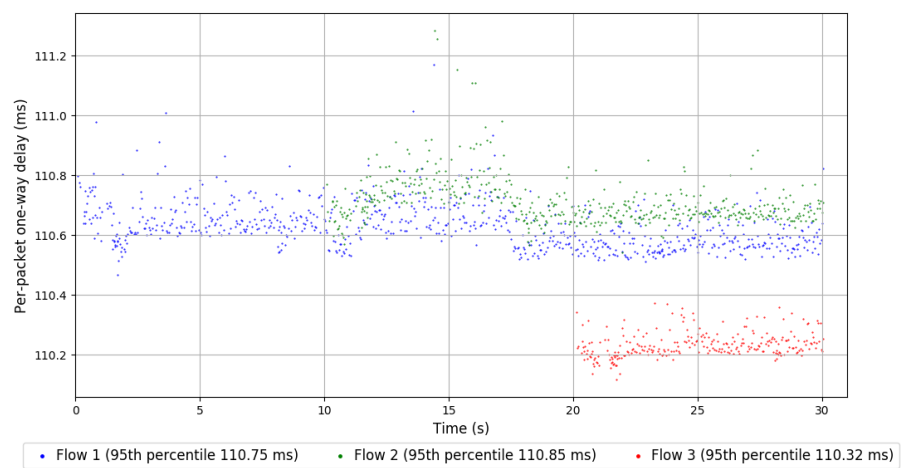
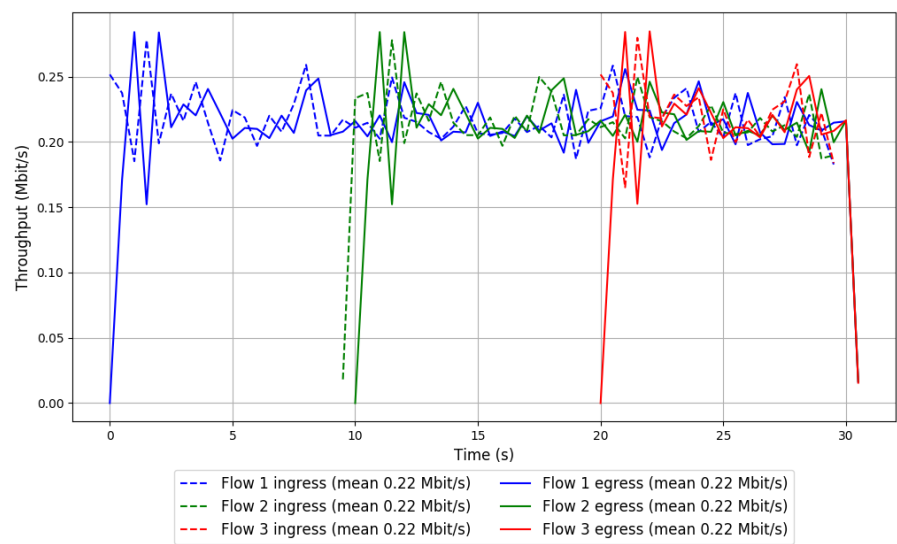


Run 1: Statistics of SReAM

Start at: 2019-02-11 16:30:37
End at: 2019-02-11 16:31:07
Local clock offset: -1.536 ms
Remote clock offset: -0.494 ms

Below is generated by plot.py at 2019-02-11 21:36:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 110.796 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.750 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.853 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.319 ms
Loss rate: 0.00%

Run 1: Report of SCReAM — Data Link

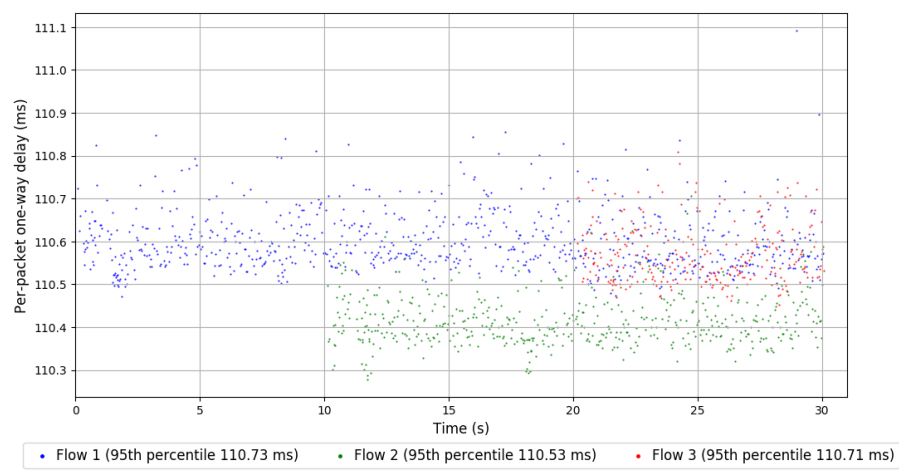
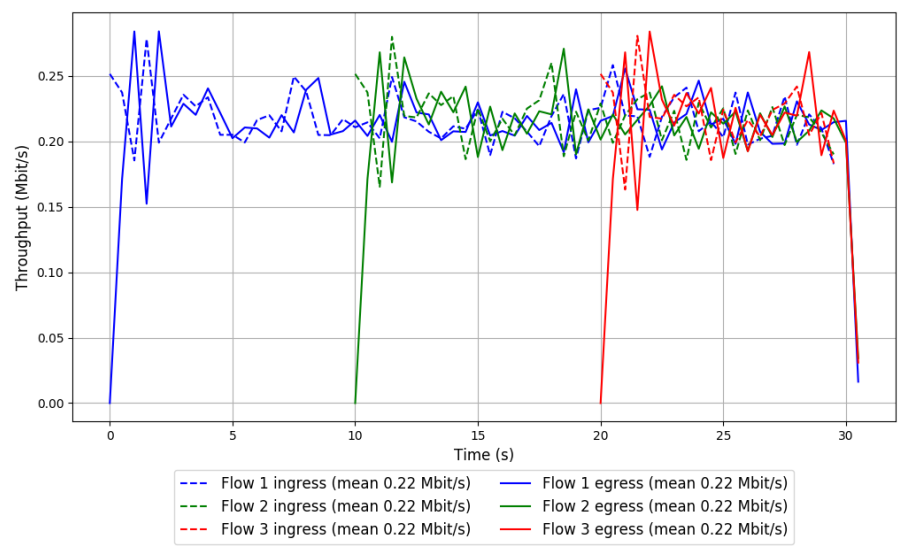


Run 2: Statistics of SReAM

Start at: 2019-02-11 17:09:12
End at: 2019-02-11 17:09:42
Local clock offset: -0.714 ms
Remote clock offset: 0.206 ms

Below is generated by plot.py at 2019-02-11 21:36:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 110.706 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.731 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.531 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.712 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

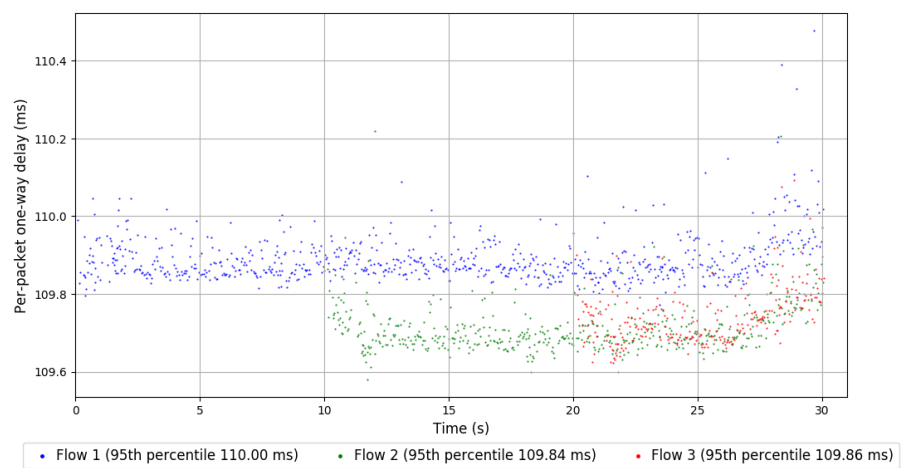
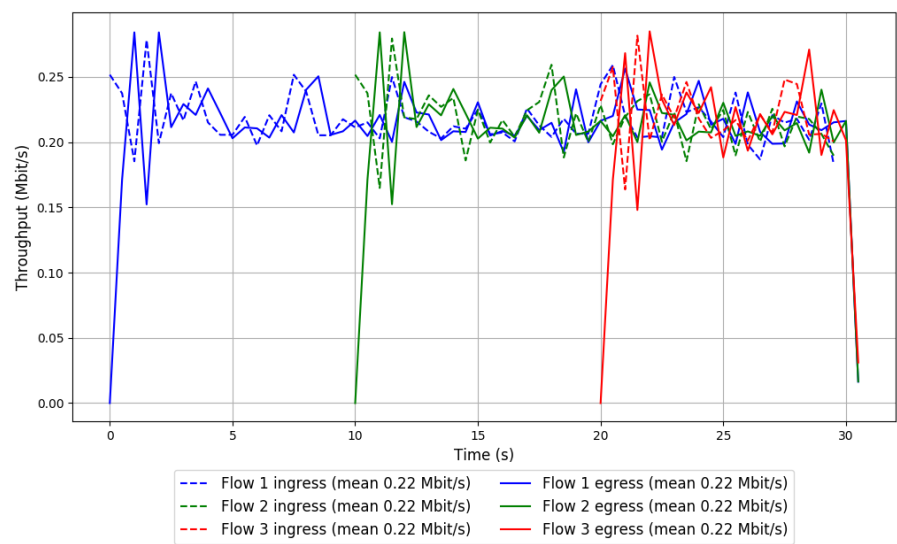


Run 3: Statistics of SReAM

Start at: 2019-02-11 17:46:56
End at: 2019-02-11 17:47:26
Local clock offset: -0.653 ms
Remote clock offset: -0.143 ms

Below is generated by plot.py at 2019-02-11 21:36:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 109.956 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.003 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.843 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.855 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

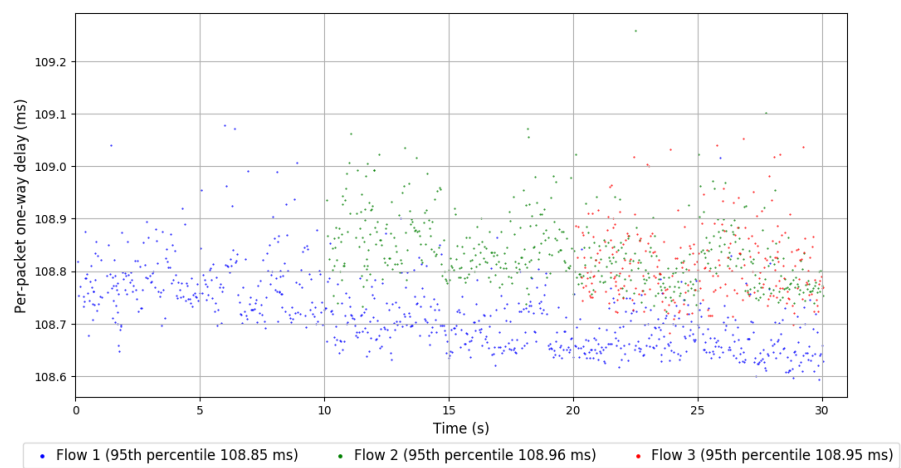
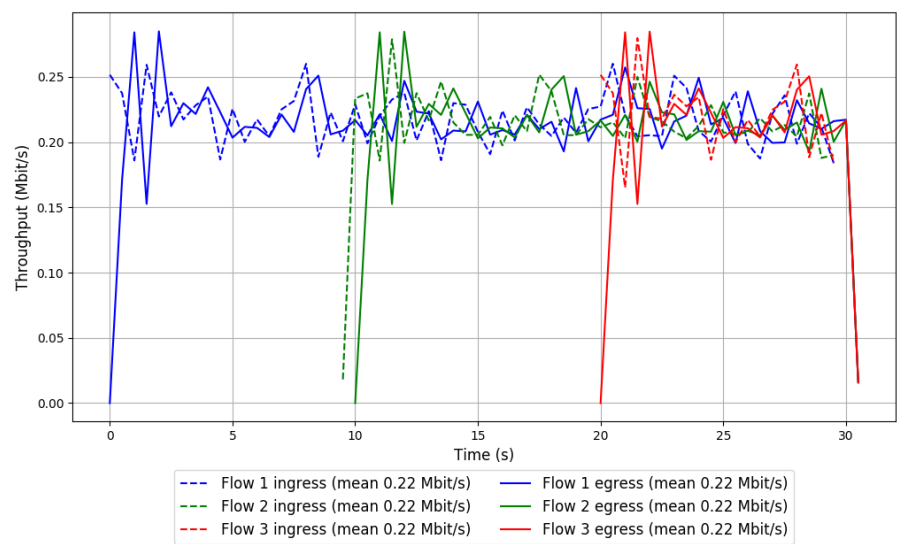


Run 4: Statistics of SReAM

Start at: 2019-02-11 18:26:03
End at: 2019-02-11 18:26:33
Local clock offset: -0.828 ms
Remote clock offset: -0.465 ms

Below is generated by plot.py at 2019-02-11 21:36:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 108.927 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 108.849 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 108.962 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 108.951 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2019-02-11 19:04:49

End at: 2019-02-11 19:05:19

Local clock offset: -0.644 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2019-02-11 21:36:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 110.072 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.113 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.002 ms

Loss rate: 0.00%

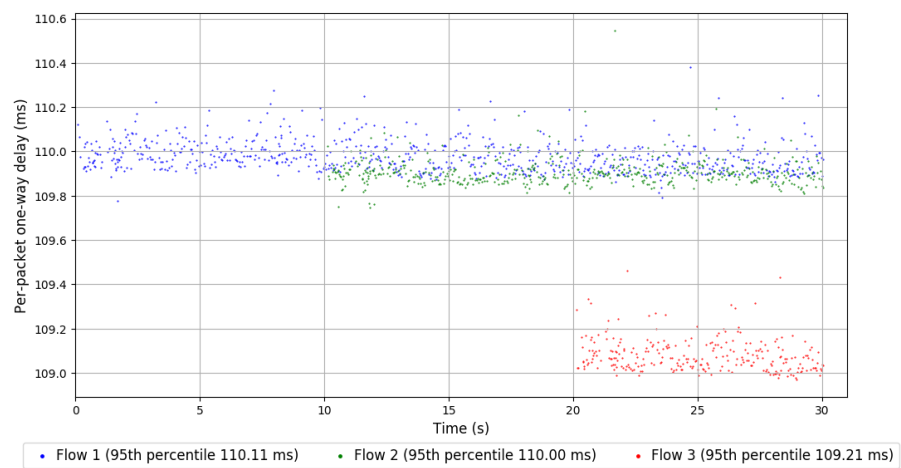
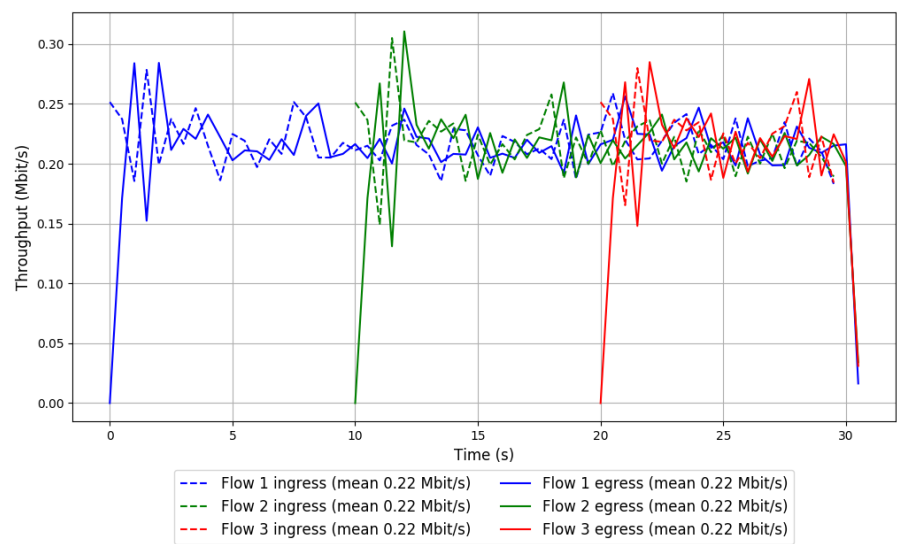
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.211 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

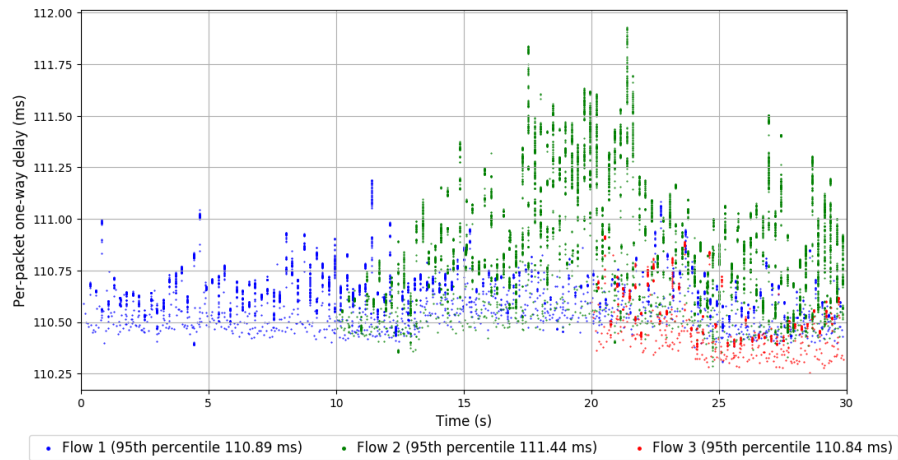
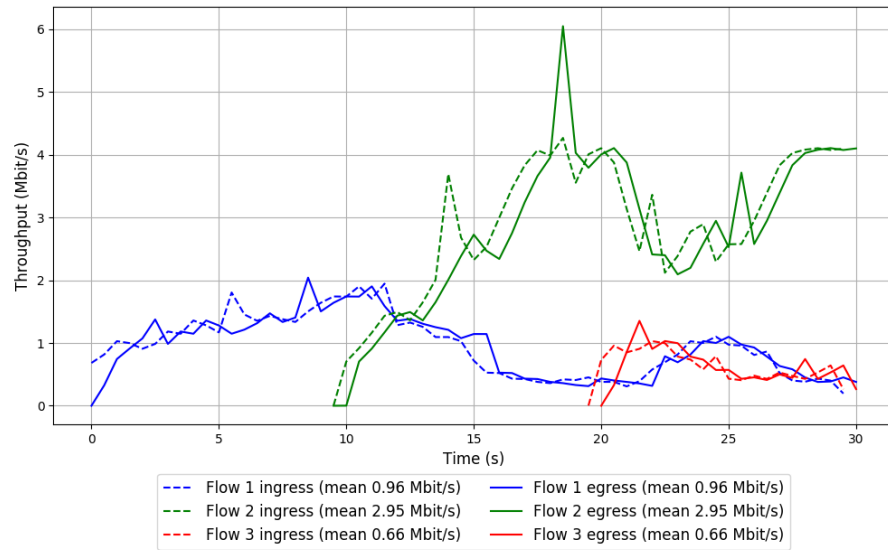


Run 1: Statistics of Sprout

Start at: 2019-02-11 16:25:03
End at: 2019-02-11 16:25:33
Local clock offset: -1.315 ms
Remote clock offset: -0.116 ms

Below is generated by plot.py at 2019-02-11 21:36:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.14 Mbit/s
95th percentile per-packet one-way delay: 111.384 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.96 Mbit/s
95th percentile per-packet one-way delay: 110.890 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.95 Mbit/s
95th percentile per-packet one-way delay: 111.442 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 110.837 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

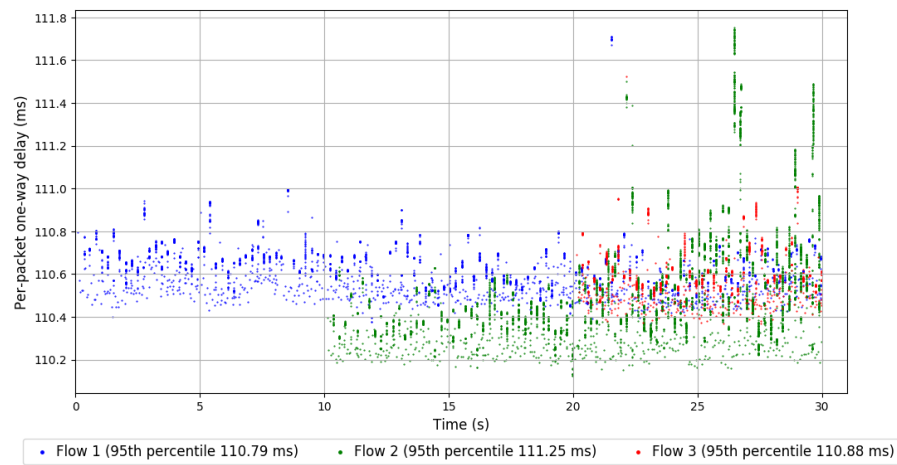
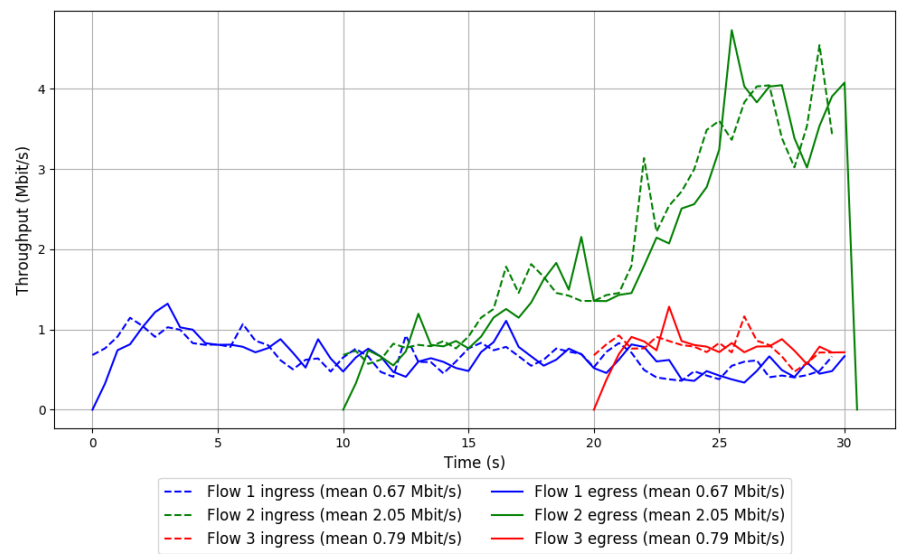


Run 2: Statistics of Sprout

Start at: 2019-02-11 17:03:41
End at: 2019-02-11 17:04:11
Local clock offset: -1.12 ms
Remote clock offset: -0.156 ms

Below is generated by plot.py at 2019-02-11 21:36:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 110.953 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 110.791 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 111.251 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.79 Mbit/s
95th percentile per-packet one-way delay: 110.882 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

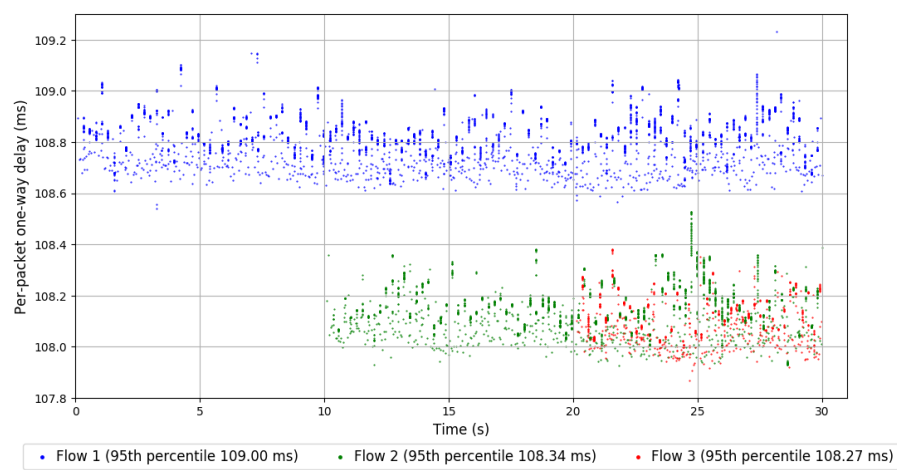
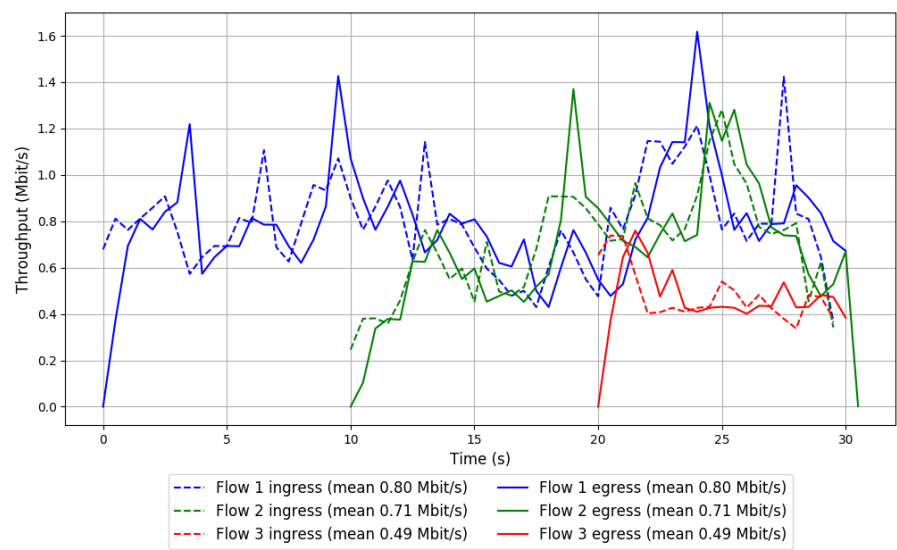


Run 3: Statistics of Sprout

Start at: 2019-02-11 17:41:36
End at: 2019-02-11 17:42:06
Local clock offset: 0.471 ms
Remote clock offset: -0.052 ms

```
# Below is generated by plot.py at 2019-02-11 21:36:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.43 Mbit/s
95th percentile per-packet one-way delay: 108.937 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.80 Mbit/s
95th percentile per-packet one-way delay: 108.998 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.71 Mbit/s
95th percentile per-packet one-way delay: 108.342 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 108.266 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

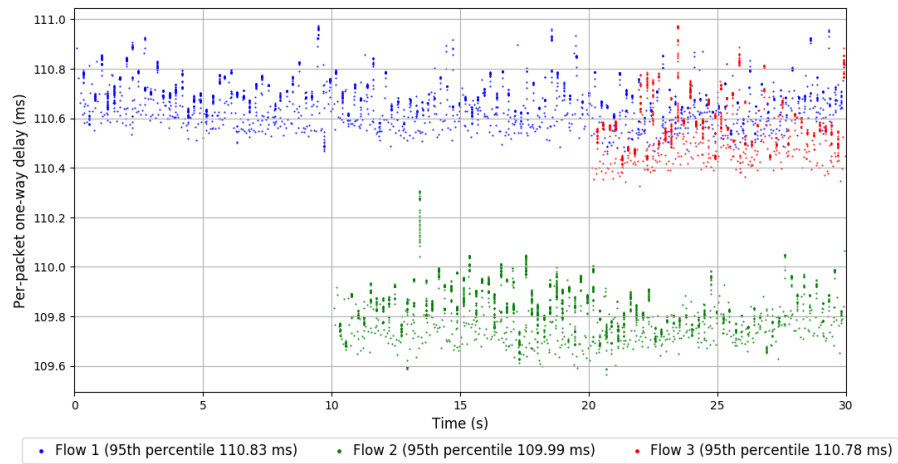
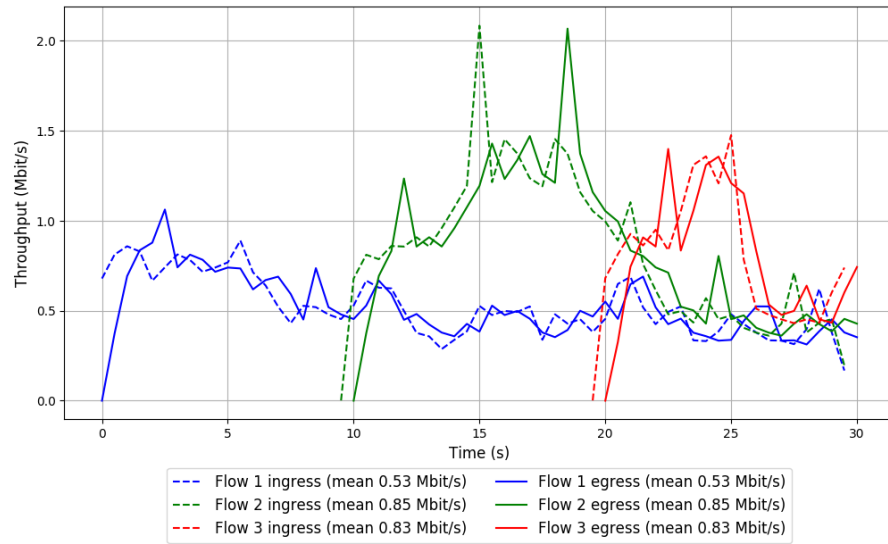


Run 4: Statistics of Sprout

Start at: 2019-02-11 18:20:29
End at: 2019-02-11 18:20:59
Local clock offset: -1.407 ms
Remote clock offset: -0.117 ms

```
# Below is generated by plot.py at 2019-02-11 21:36:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.36 Mbit/s
95th percentile per-packet one-way delay: 110.788 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 110.834 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.85 Mbit/s
95th percentile per-packet one-way delay: 109.991 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.83 Mbit/s
95th percentile per-packet one-way delay: 110.783 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

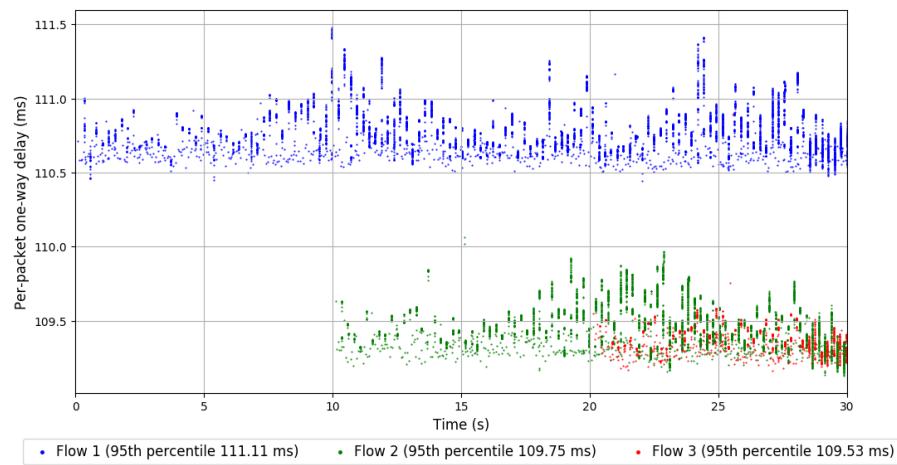
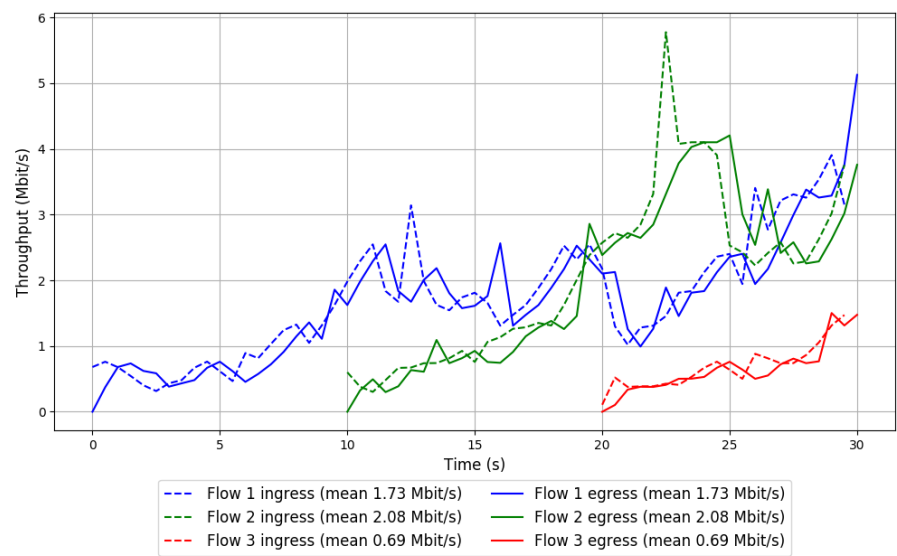


Run 5: Statistics of Sprout

Start at: 2019-02-11 18:59:19
End at: 2019-02-11 18:59:49
Local clock offset: -0.224 ms
Remote clock offset: -0.07 ms

```
# Below is generated by plot.py at 2019-02-11 21:36:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.34 Mbit/s
95th percentile per-packet one-way delay: 110.993 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.73 Mbit/s
95th percentile per-packet one-way delay: 111.111 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.08 Mbit/s
95th percentile per-packet one-way delay: 109.754 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.69 Mbit/s
95th percentile per-packet one-way delay: 109.528 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

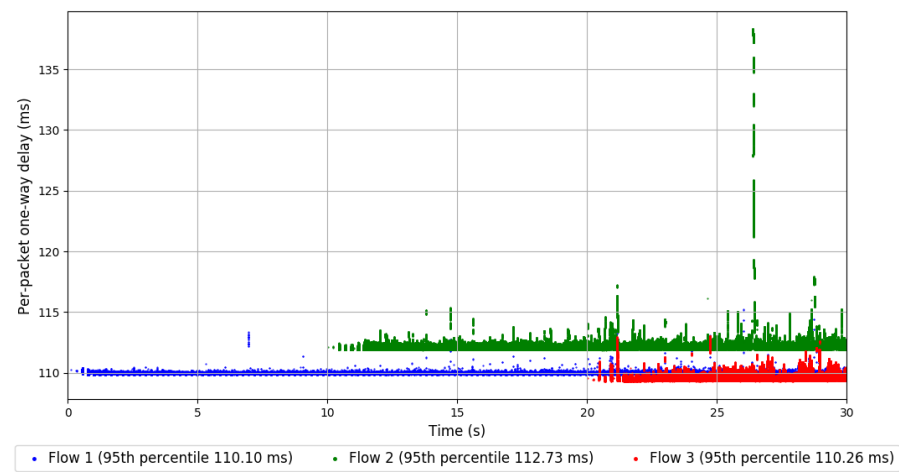
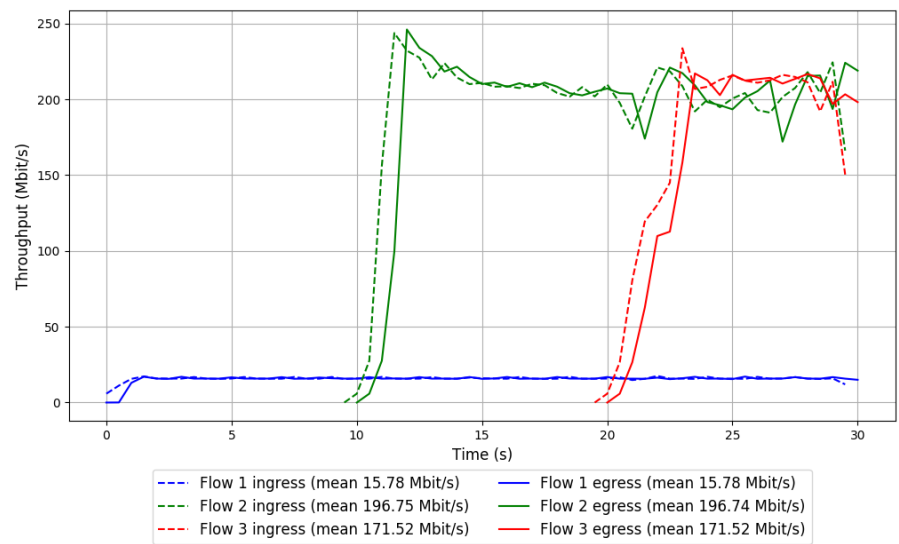



```
Run 1: Statistics of TaoVA-100x

Start at: 2019-02-11 16:03:34
End at: 2019-02-11 16:04:04
Local clock offset: -0.608 ms
Remote clock offset: 0.262 ms

# Below is generated by plot.py at 2019-02-11 21:36:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 204.53 Mbit/s
95th percentile per-packet one-way delay: 112.558 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 15.78 Mbit/s
95th percentile per-packet one-way delay: 110.100 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 196.74 Mbit/s
95th percentile per-packet one-way delay: 112.733 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 171.52 Mbit/s
95th percentile per-packet one-way delay: 110.262 ms
Loss rate: 0.00%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-02-11 16:41:35

End at: 2019-02-11 16:42:05

Local clock offset: -0.1 ms

Remote clock offset: -0.11 ms

Below is generated by plot.py at 2019-02-11 21:39:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 389.73 Mbit/s

95th percentile per-packet one-way delay: 109.778 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 200.57 Mbit/s

95th percentile per-packet one-way delay: 108.938 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 192.60 Mbit/s

95th percentile per-packet one-way delay: 109.225 ms

Loss rate: 0.00%

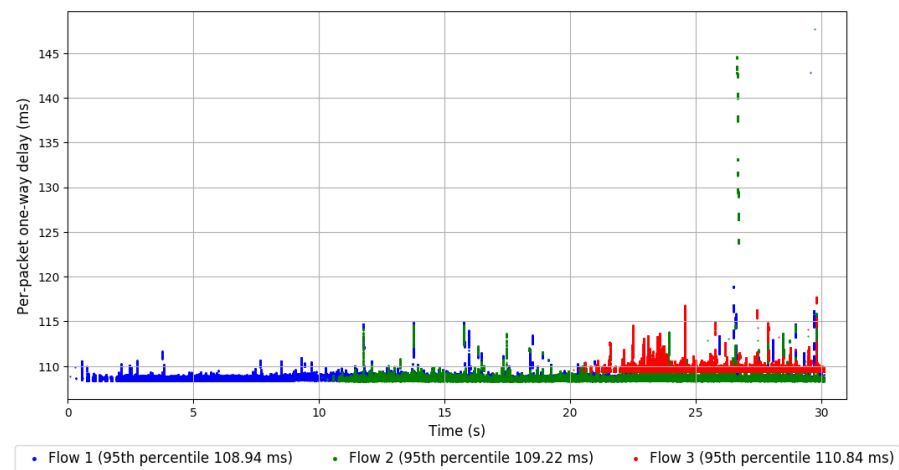
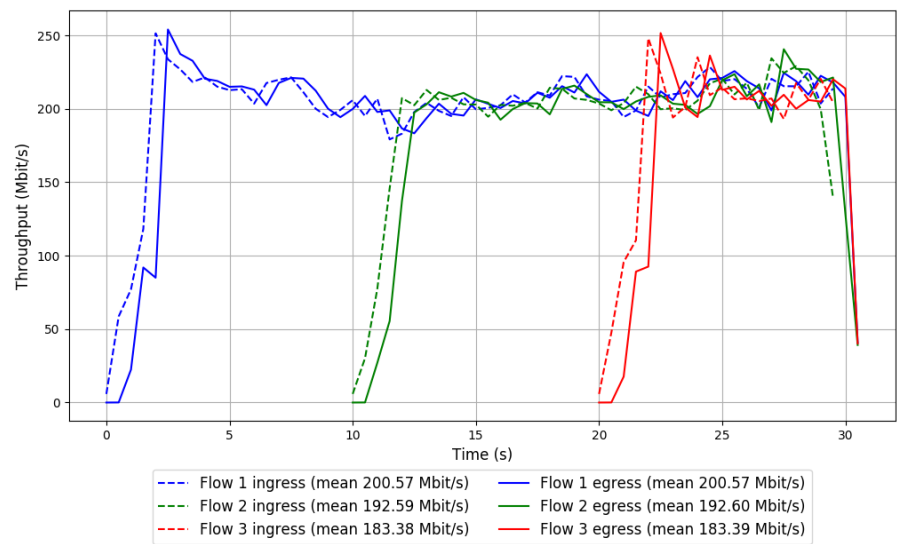
-- Flow 3:

Average throughput: 183.39 Mbit/s

95th percentile per-packet one-way delay: 110.836 ms

Loss rate: 0.01%

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

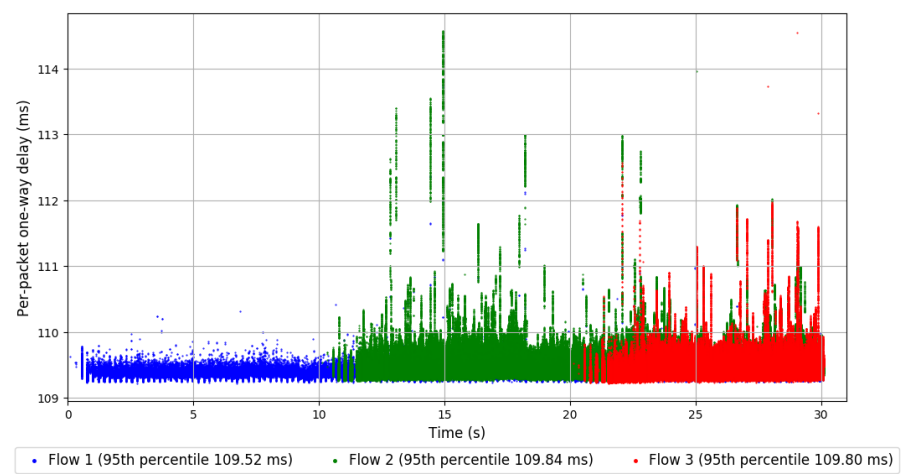
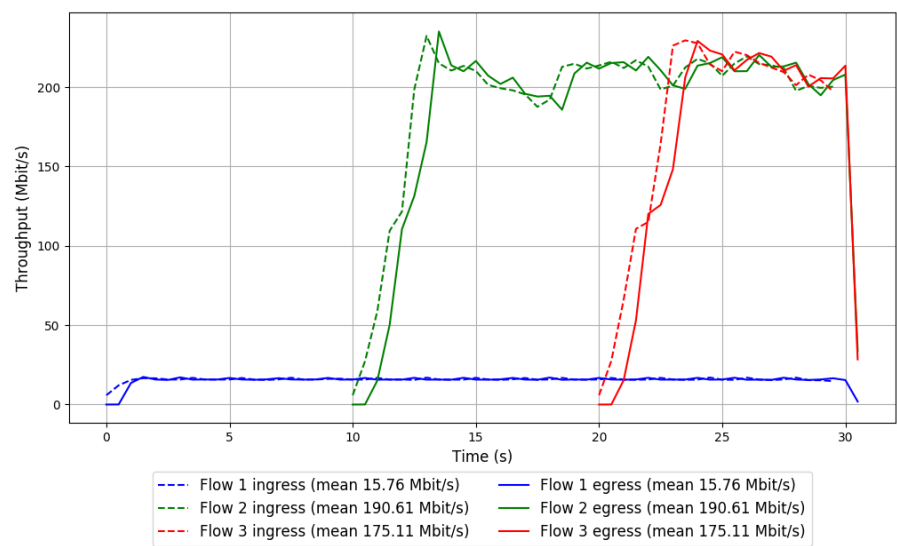


Run 3: Statistics of TaoVA-100x

Start at: 2019-02-11 17:19:56
End at: 2019-02-11 17:20:26
Local clock offset: -0.002 ms
Remote clock offset: -0.159 ms

Below is generated by plot.py at 2019-02-11 21:39:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 200.91 Mbit/s
95th percentile per-packet one-way delay: 109.812 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.76 Mbit/s
95th percentile per-packet one-way delay: 109.522 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 190.61 Mbit/s
95th percentile per-packet one-way delay: 109.836 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 175.11 Mbit/s
95th percentile per-packet one-way delay: 109.804 ms
Loss rate: 0.00%

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

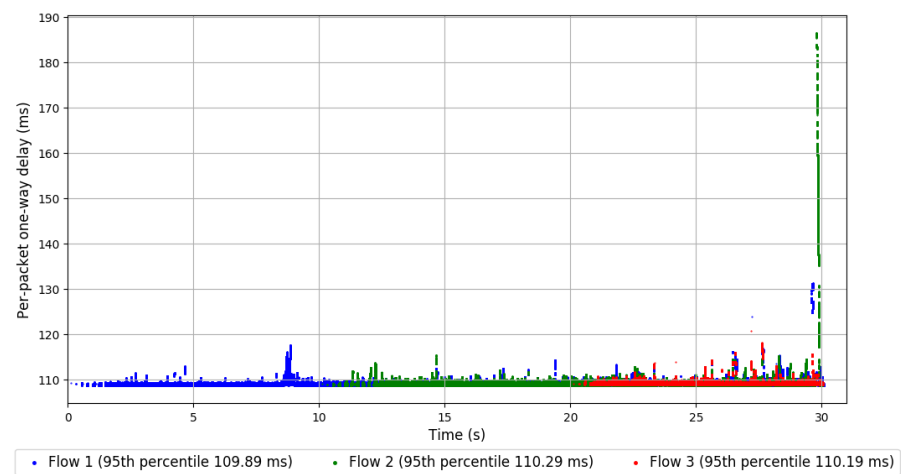
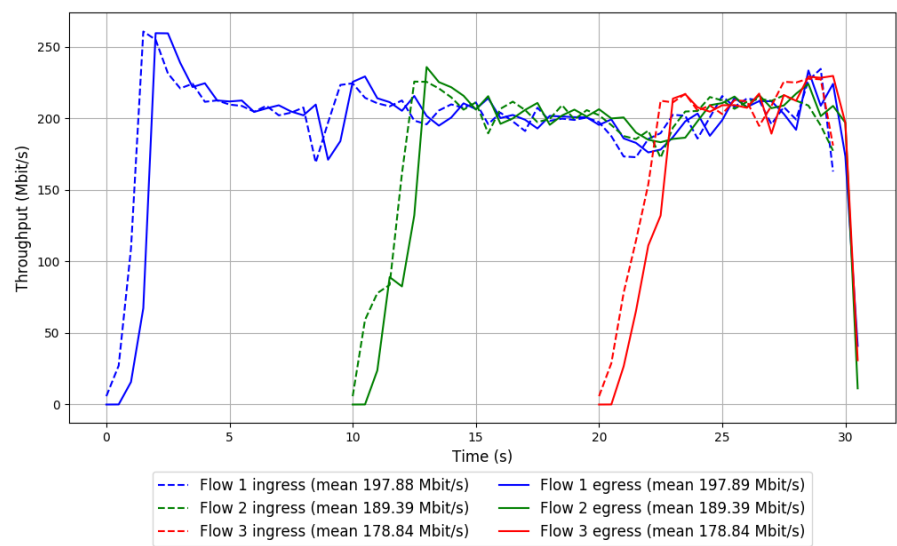


Run 4: Statistics of TaoVA-100x

Start at: 2019-02-11 17:57:56
End at: 2019-02-11 17:58:26
Local clock offset: 0.347 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2019-02-11 21:39:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 382.94 Mbit/s
95th percentile per-packet one-way delay: 110.090 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 197.89 Mbit/s
95th percentile per-packet one-way delay: 109.895 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 189.39 Mbit/s
95th percentile per-packet one-way delay: 110.289 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 178.84 Mbit/s
95th percentile per-packet one-way delay: 110.193 ms
Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-02-11 18:36:57

End at: 2019-02-11 18:37:27

Local clock offset: -0.702 ms

Remote clock offset: 0.285 ms

Below is generated by plot.py at 2019-02-11 21:39:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 339.93 Mbit/s

95th percentile per-packet one-way delay: 110.587 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 202.57 Mbit/s

95th percentile per-packet one-way delay: 110.651 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 198.54 Mbit/s

95th percentile per-packet one-way delay: 109.914 ms

Loss rate: 0.00%

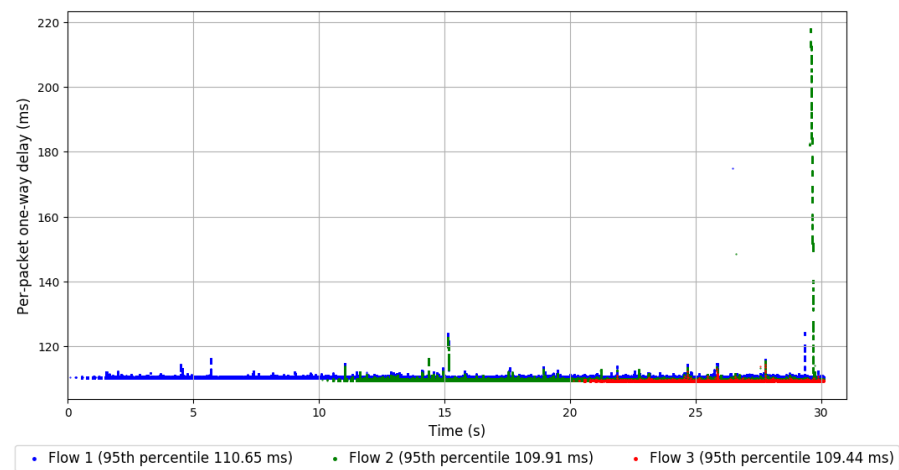
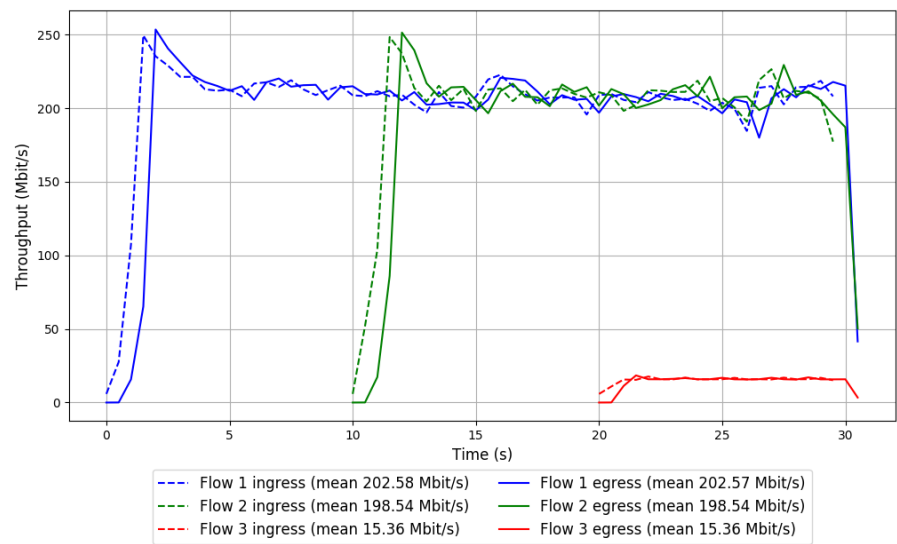
-- Flow 3:

Average throughput: 15.36 Mbit/s

95th percentile per-packet one-way delay: 109.445 ms

Loss rate: 0.00%

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

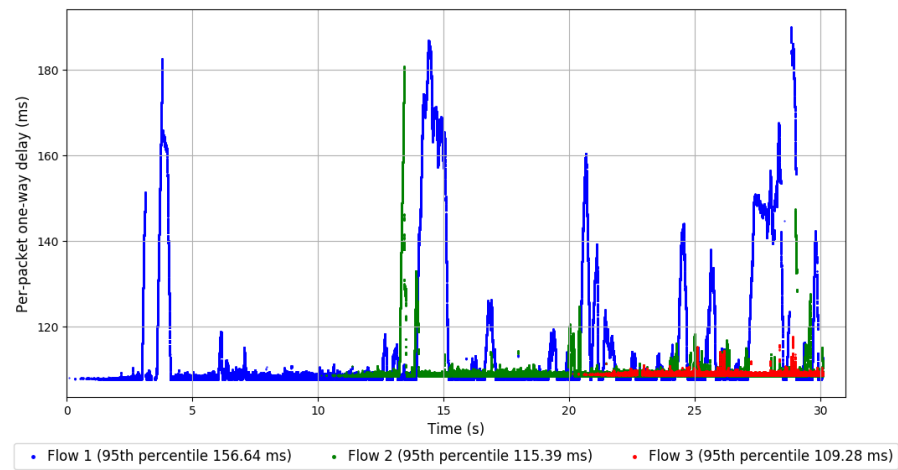
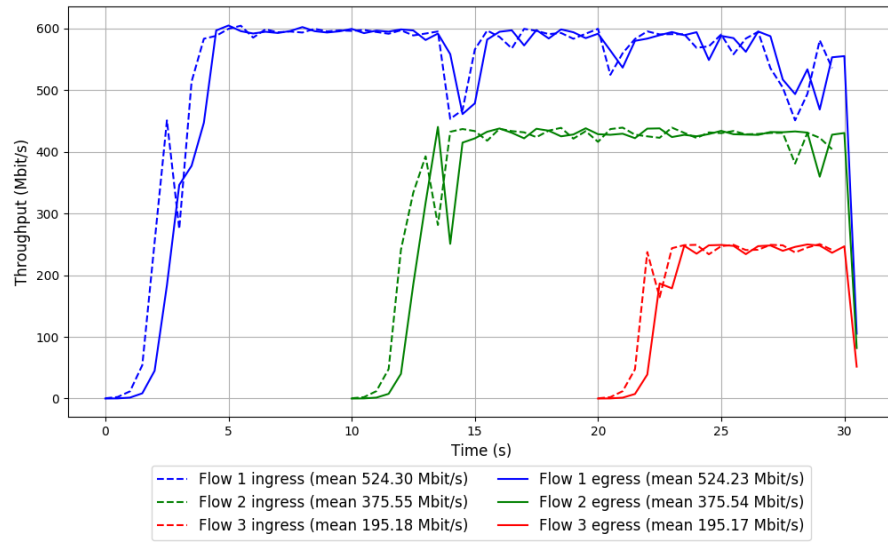


Run 1: Statistics of TCP Vegas

Start at: 2019-02-11 16:08:31
End at: 2019-02-11 16:09:01
Local clock offset: 0.573 ms
Remote clock offset: -0.124 ms

Below is generated by plot.py at 2019-02-11 21:43:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 839.21 Mbit/s
95th percentile per-packet one-way delay: 147.467 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 524.23 Mbit/s
95th percentile per-packet one-way delay: 156.644 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 375.54 Mbit/s
95th percentile per-packet one-way delay: 115.394 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 195.17 Mbit/s
95th percentile per-packet one-way delay: 109.278 ms
Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-02-11 16:46:34

End at: 2019-02-11 16:47:04

Local clock offset: -0.076 ms

Remote clock offset: -0.12 ms

Below is generated by plot.py at 2019-02-11 21:47:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 747.24 Mbit/s

95th percentile per-packet one-way delay: 120.592 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 400.53 Mbit/s

95th percentile per-packet one-way delay: 119.495 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 361.88 Mbit/s

95th percentile per-packet one-way delay: 119.441 ms

Loss rate: 0.00%

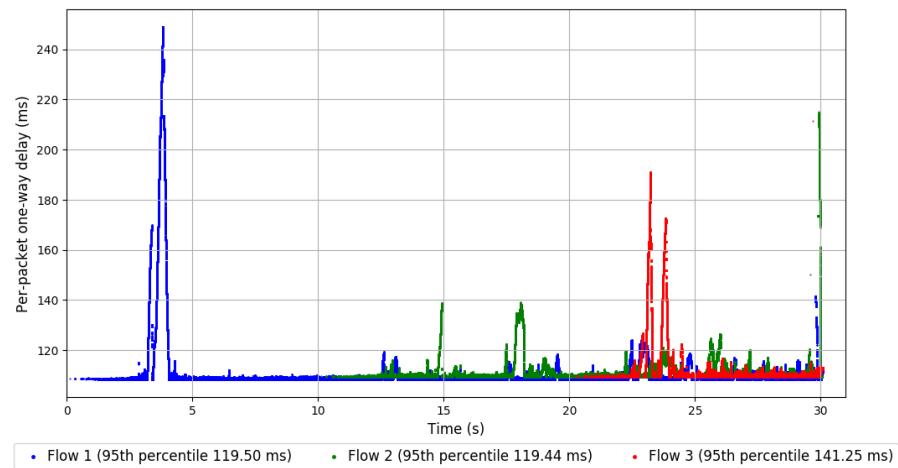
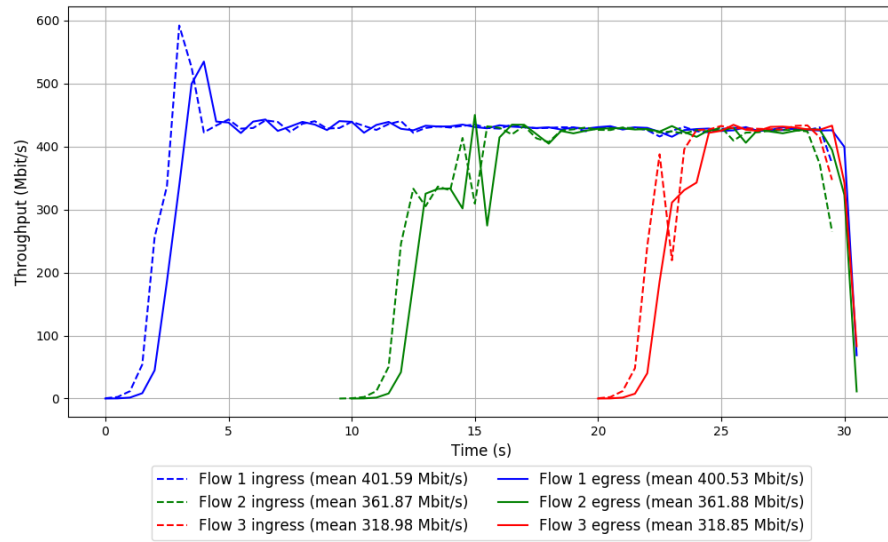
-- Flow 3:

Average throughput: 318.85 Mbit/s

95th percentile per-packet one-way delay: 141.251 ms

Loss rate: 0.05%

Run 2: Report of TCP Vegas — Data Link

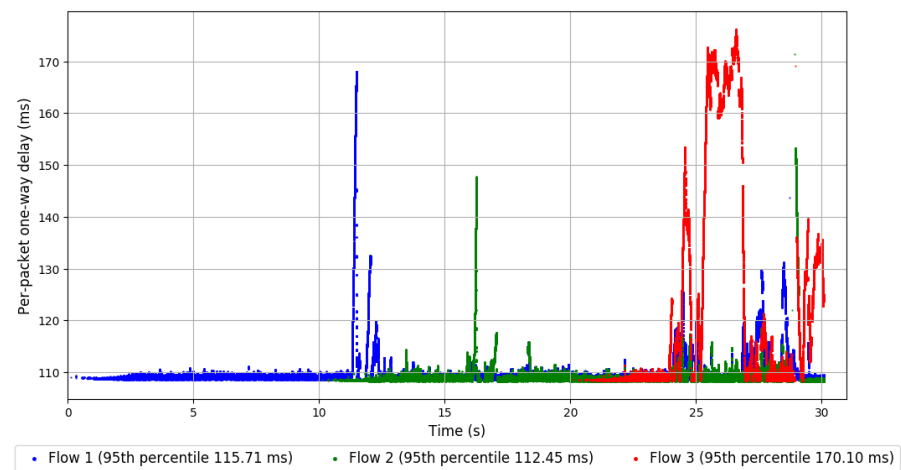
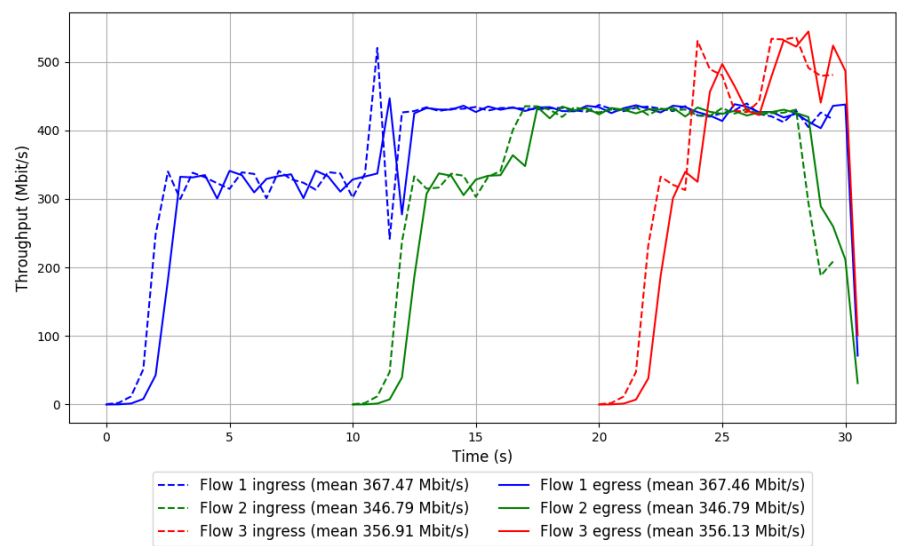


Run 3: Statistics of TCP Vegas

Start at: 2019-02-11 17:25:01
End at: 2019-02-11 17:25:31
Local clock offset: 0.608 ms
Remote clock offset: -0.167 ms

Below is generated by plot.py at 2019-02-11 21:47:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 716.79 Mbit/s
95th percentile per-packet one-way delay: 132.899 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 367.46 Mbit/s
95th percentile per-packet one-way delay: 115.712 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 346.79 Mbit/s
95th percentile per-packet one-way delay: 112.454 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 356.13 Mbit/s
95th percentile per-packet one-way delay: 170.096 ms
Loss rate: 0.21%

Run 3: Report of TCP Vegas — Data Link

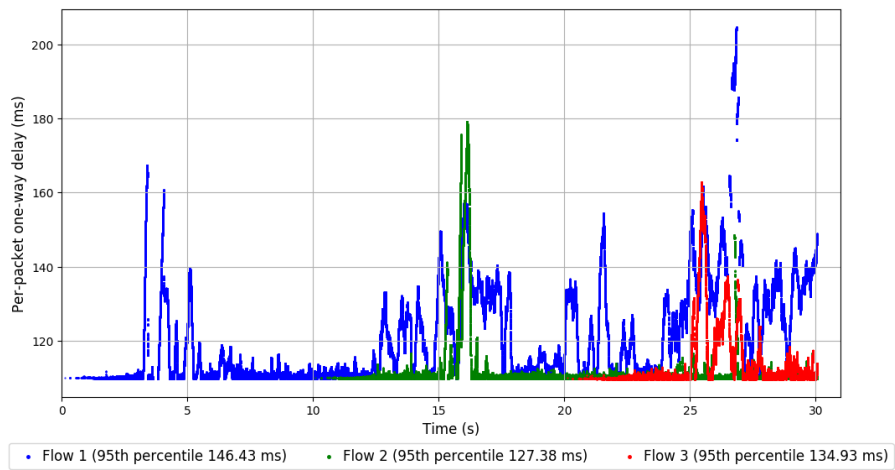
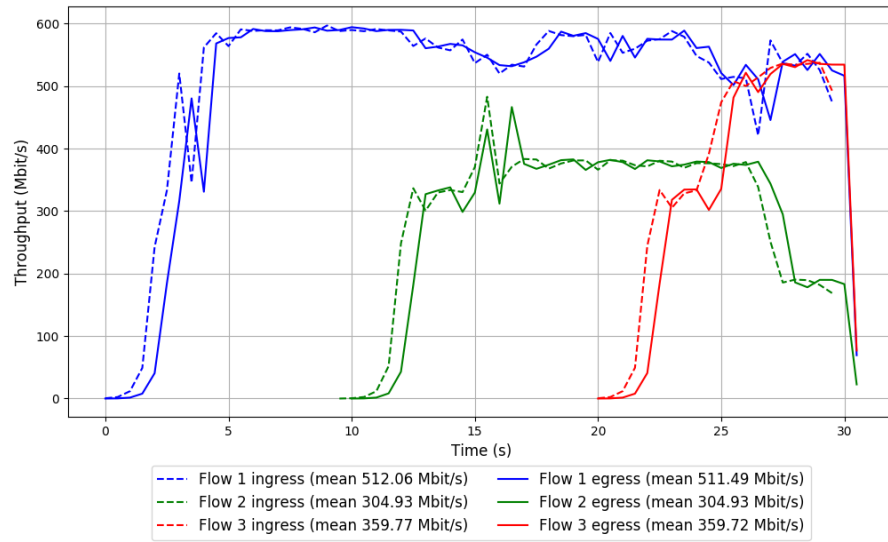


Run 4: Statistics of TCP Vegas

Start at: 2019-02-11 18:03:07
End at: 2019-02-11 18:03:37
Local clock offset: -0.665 ms
Remote clock offset: -0.105 ms

Below is generated by plot.py at 2019-02-11 21:52:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 834.24 Mbit/s
95th percentile per-packet one-way delay: 143.744 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 511.49 Mbit/s
95th percentile per-packet one-way delay: 146.429 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 304.93 Mbit/s
95th percentile per-packet one-way delay: 127.379 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 359.72 Mbit/s
95th percentile per-packet one-way delay: 134.934 ms
Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link

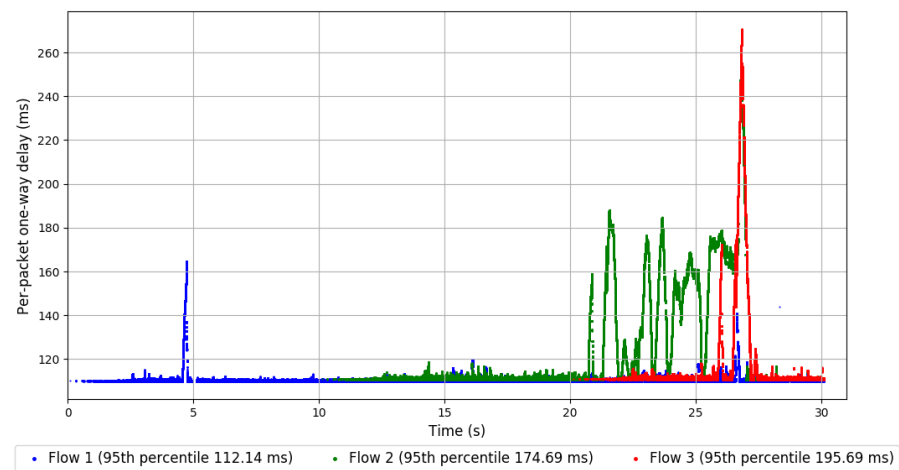
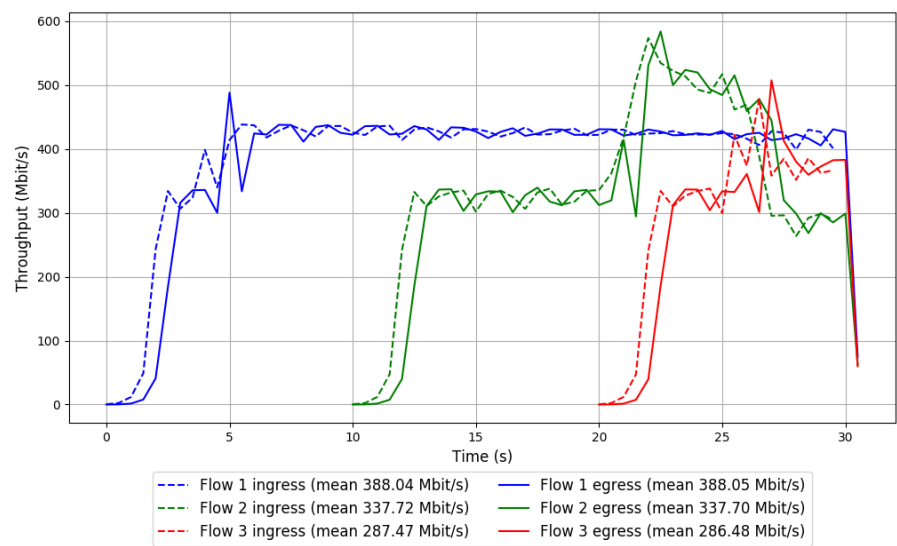


Run 5: Statistics of TCP Vegas

Start at: 2019-02-11 18:42:21
End at: 2019-02-11 18:42:51
Local clock offset: -1.29 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2019-02-11 21:52:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 708.18 Mbit/s
95th percentile per-packet one-way delay: 166.671 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 388.05 Mbit/s
95th percentile per-packet one-way delay: 112.143 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 337.70 Mbit/s
95th percentile per-packet one-way delay: 174.693 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 286.48 Mbit/s
95th percentile per-packet one-way delay: 195.691 ms
Loss rate: 0.35%

Run 5: Report of TCP Vegas — Data Link

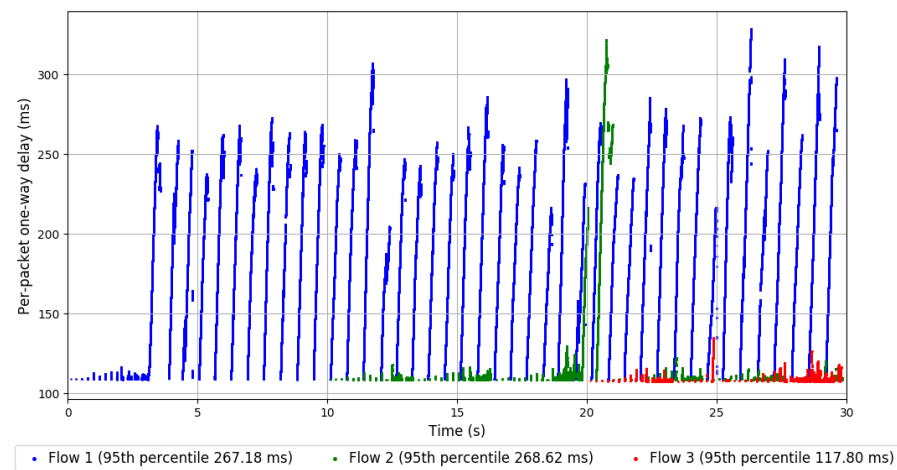
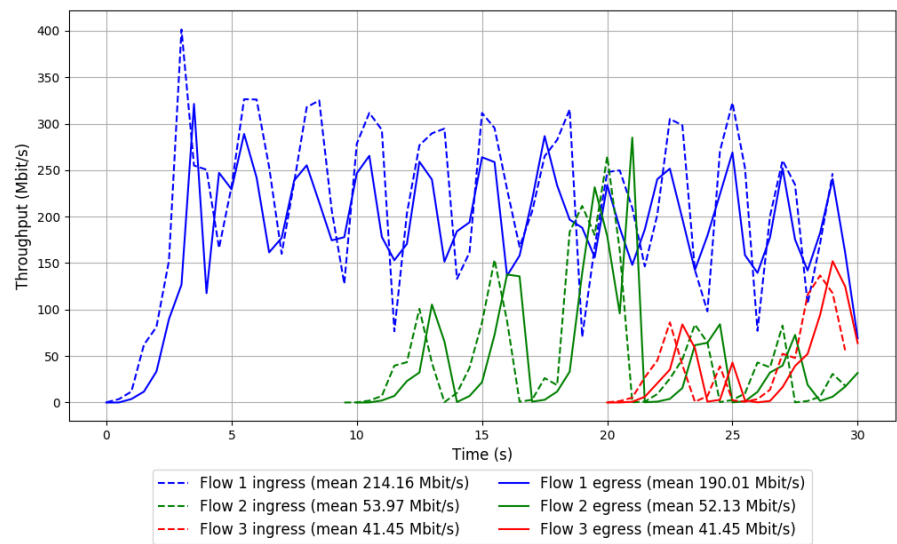


Run 1: Statistics of Verus

Start at: 2019-02-11 16:20:11
End at: 2019-02-11 16:20:41
Local clock offset: 0.813 ms
Remote clock offset: -0.098 ms

Below is generated by plot.py at 2019-02-11 21:52:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 236.67 Mbit/s
95th percentile per-packet one-way delay: 266.698 ms
Loss rate: 9.23%
-- Flow 1:
Average throughput: 190.01 Mbit/s
95th percentile per-packet one-way delay: 267.176 ms
Loss rate: 10.80%
-- Flow 2:
Average throughput: 52.13 Mbit/s
95th percentile per-packet one-way delay: 268.617 ms
Loss rate: 3.42%
-- Flow 3:
Average throughput: 41.45 Mbit/s
95th percentile per-packet one-way delay: 117.796 ms
Loss rate: 0.00%

Run 1: Report of Verus — Data Link

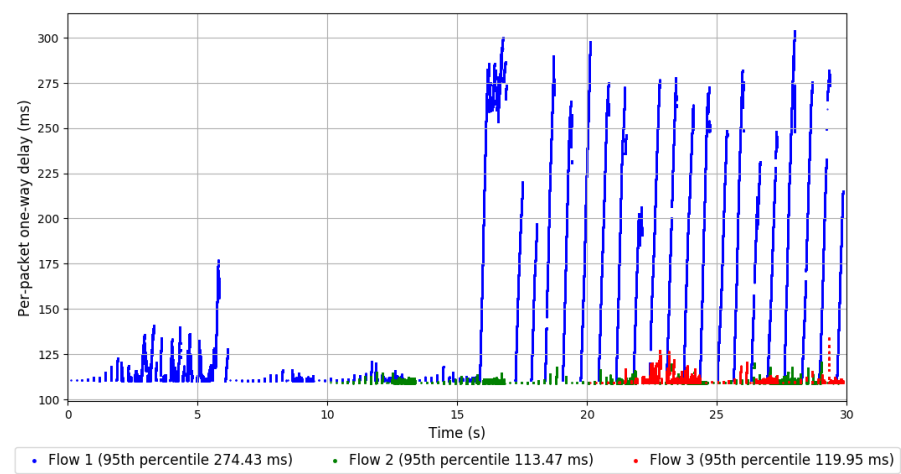
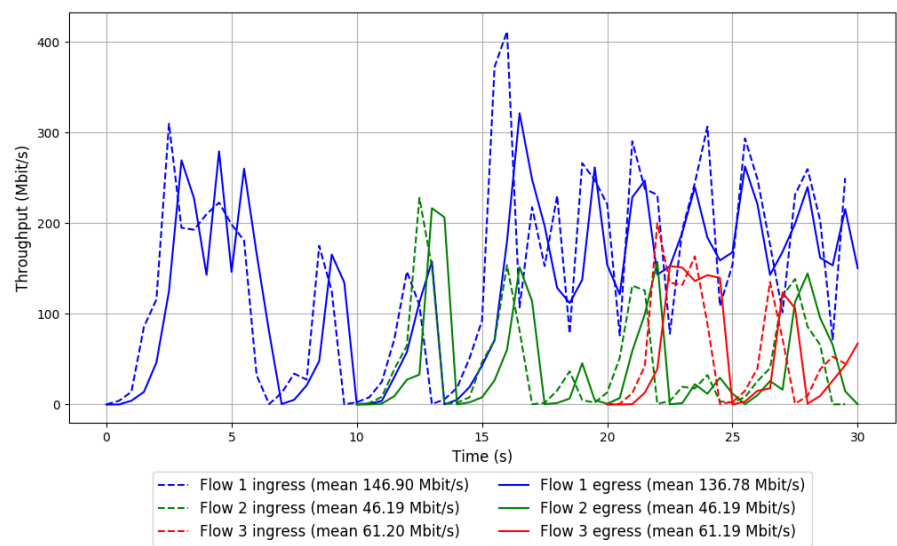


Run 2: Statistics of Verus

Start at: 2019-02-11 16:58:49
End at: 2019-02-11 16:59:19
Local clock offset: -0.087 ms
Remote clock offset: -0.159 ms

Below is generated by plot.py at 2019-02-11 21:52:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 187.15 Mbit/s
95th percentile per-packet one-way delay: 271.437 ms
Loss rate: 5.13%
-- Flow 1:
Average throughput: 136.78 Mbit/s
95th percentile per-packet one-way delay: 274.429 ms
Loss rate: 6.89%
-- Flow 2:
Average throughput: 46.19 Mbit/s
95th percentile per-packet one-way delay: 113.472 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 61.19 Mbit/s
95th percentile per-packet one-way delay: 119.946 ms
Loss rate: 0.00%

Run 2: Report of Verus — Data Link

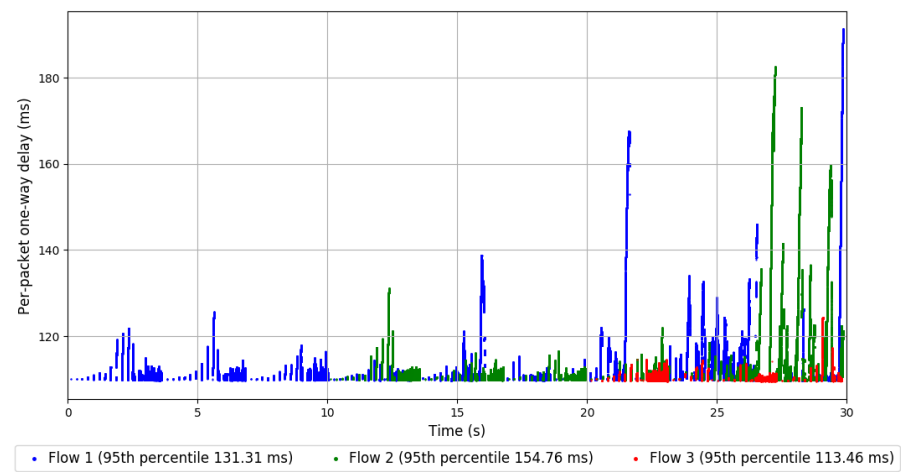
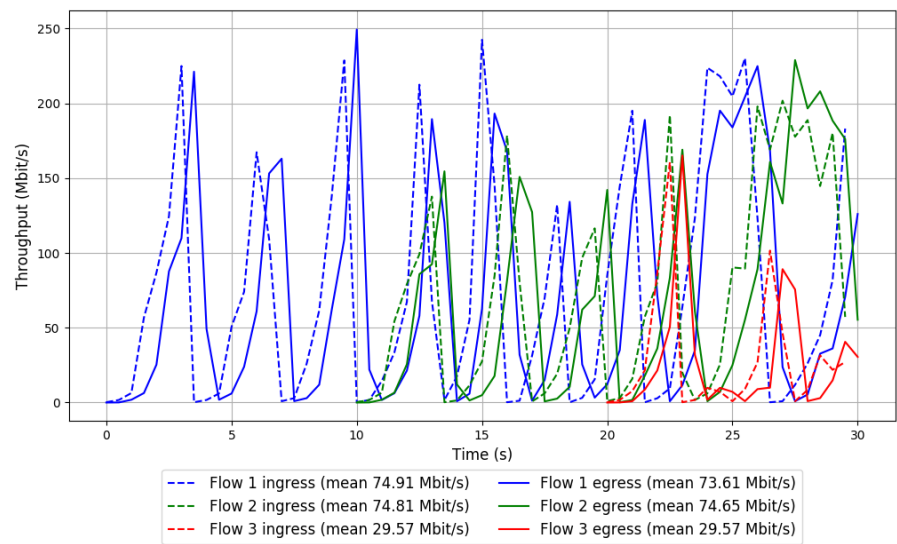


Run 3: Statistics of Verus

Start at: 2019-02-11 17:36:51
End at: 2019-02-11 17:37:21
Local clock offset: -0.65 ms
Remote clock offset: -0.089 ms

Below is generated by plot.py at 2019-02-11 21:52:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 132.75 Mbit/s
95th percentile per-packet one-way delay: 140.797 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 73.61 Mbit/s
95th percentile per-packet one-way delay: 131.310 ms
Loss rate: 1.74%
-- Flow 2:
Average throughput: 74.65 Mbit/s
95th percentile per-packet one-way delay: 154.757 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 29.57 Mbit/s
95th percentile per-packet one-way delay: 113.460 ms
Loss rate: 0.00%

Run 3: Report of Verus — Data Link

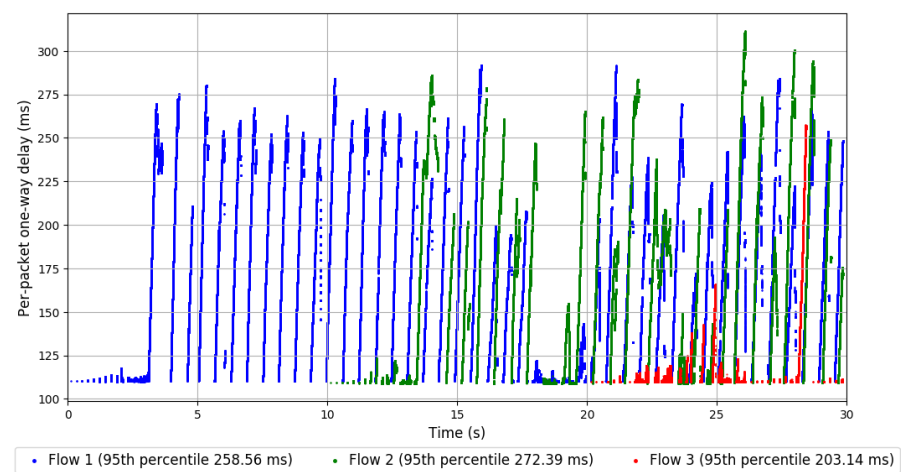
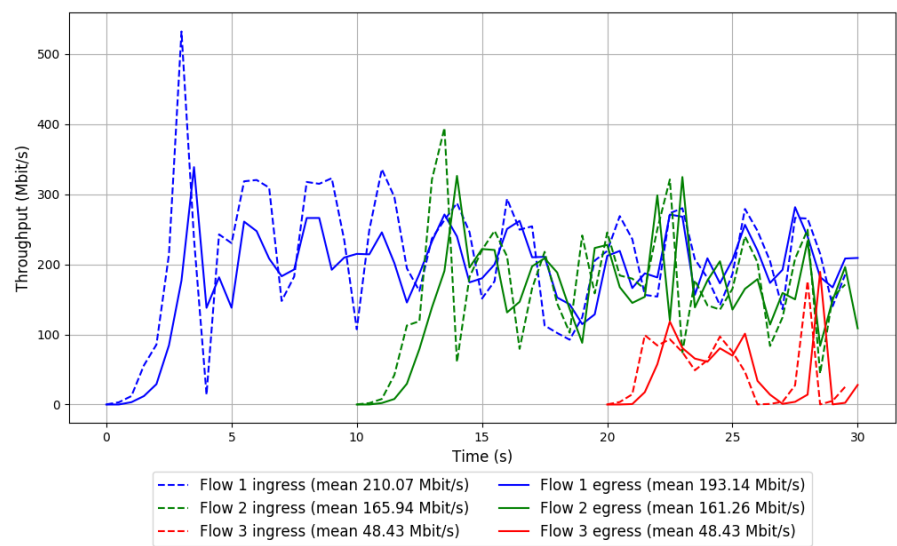


Run 4: Statistics of Verus

Start at: 2019-02-11 18:15:10
End at: 2019-02-11 18:15:40
Local clock offset: -0.919 ms
Remote clock offset: -0.119 ms

Below is generated by plot.py at 2019-02-11 21:55:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 315.92 Mbit/s
95th percentile per-packet one-way delay: 262.861 ms
Loss rate: 5.88%
-- Flow 1:
Average throughput: 193.14 Mbit/s
95th percentile per-packet one-way delay: 258.557 ms
Loss rate: 7.94%
-- Flow 2:
Average throughput: 161.26 Mbit/s
95th percentile per-packet one-way delay: 272.390 ms
Loss rate: 2.81%
-- Flow 3:
Average throughput: 48.43 Mbit/s
95th percentile per-packet one-way delay: 203.142 ms
Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-02-11 18:54:24

End at: 2019-02-11 18:54:54

Local clock offset: -1.346 ms

Remote clock offset: 0.312 ms

Below is generated by plot.py at 2019-02-11 21:55:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 245.32 Mbit/s

95th percentile per-packet one-way delay: 231.320 ms

Loss rate: 1.70%

-- Flow 1:

Average throughput: 171.15 Mbit/s

95th percentile per-packet one-way delay: 200.038 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 55.47 Mbit/s

95th percentile per-packet one-way delay: 232.752 ms

Loss rate: 1.58%

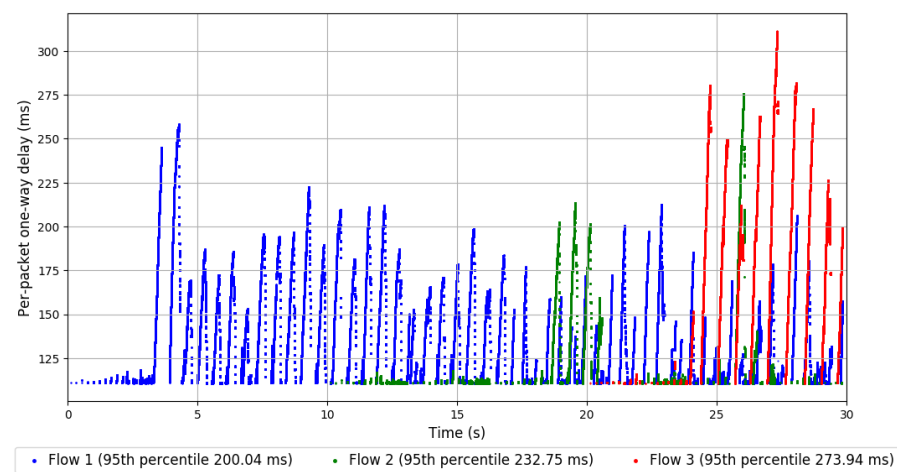
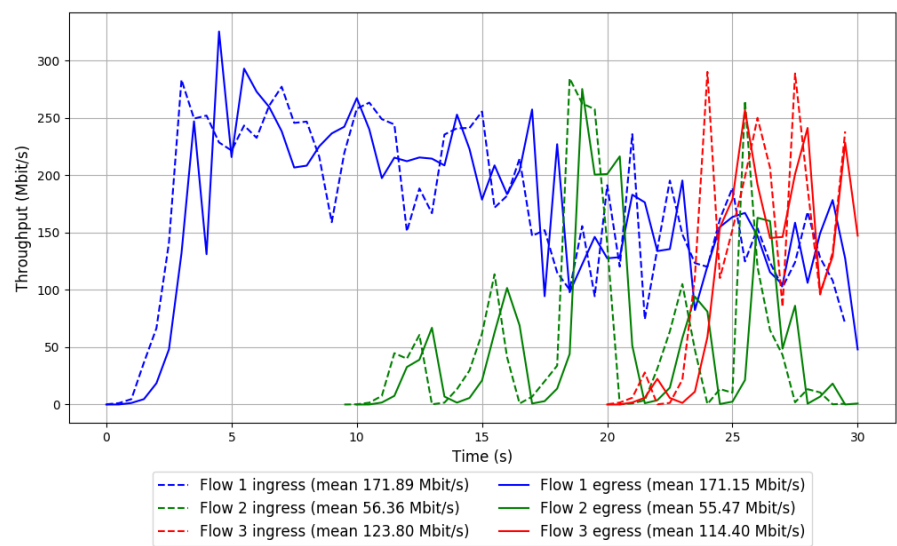
-- Flow 3:

Average throughput: 114.40 Mbit/s

95th percentile per-packet one-way delay: 273.943 ms

Loss rate: 7.58%

Run 5: Report of Verus — Data Link

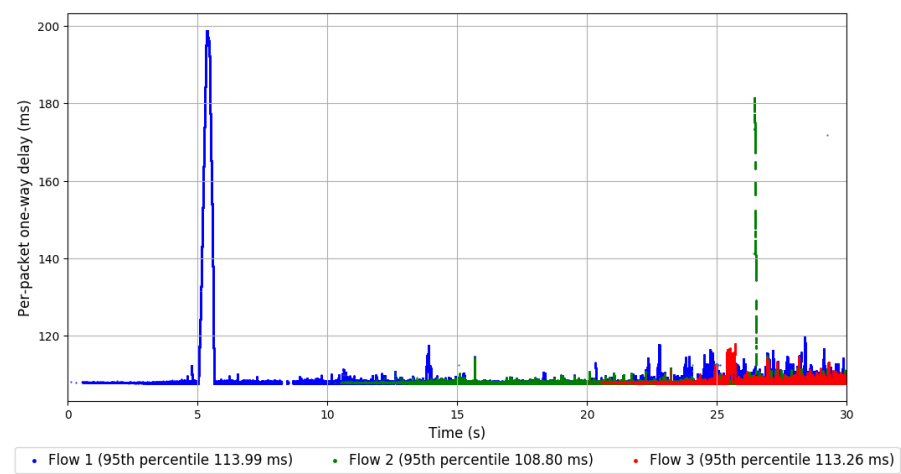
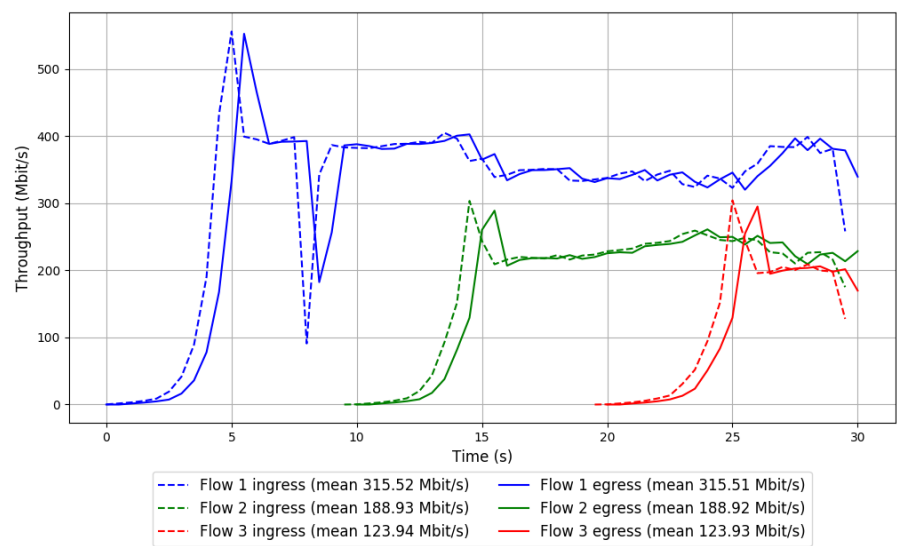


Run 1: Statistics of PCC-Vivace

Start at: 2019-02-11 16:12:24
End at: 2019-02-11 16:12:54
Local clock offset: -0.018 ms
Remote clock offset: -0.486 ms

Below is generated by plot.py at 2019-02-11 21:56:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 482.31 Mbit/s
95th percentile per-packet one-way delay: 112.506 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 315.51 Mbit/s
95th percentile per-packet one-way delay: 113.988 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 188.92 Mbit/s
95th percentile per-packet one-way delay: 108.801 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 123.93 Mbit/s
95th percentile per-packet one-way delay: 113.259 ms
Loss rate: 0.03%

Run 1: Report of PCC-Vivace — Data Link

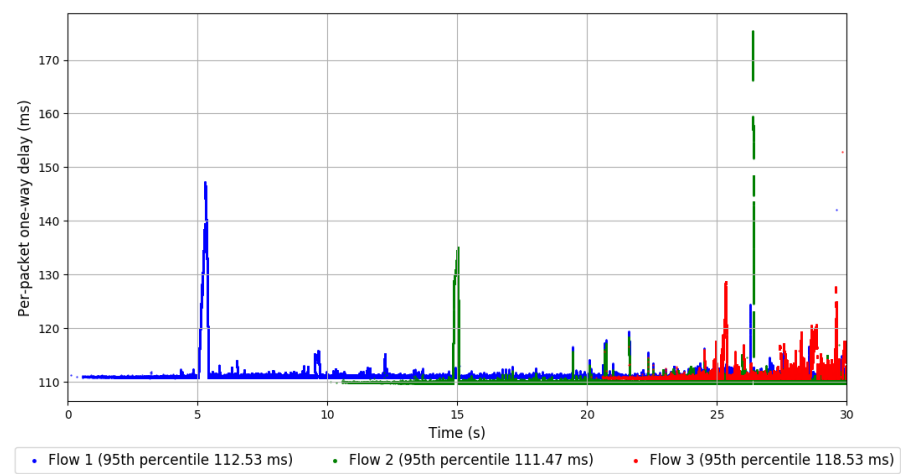
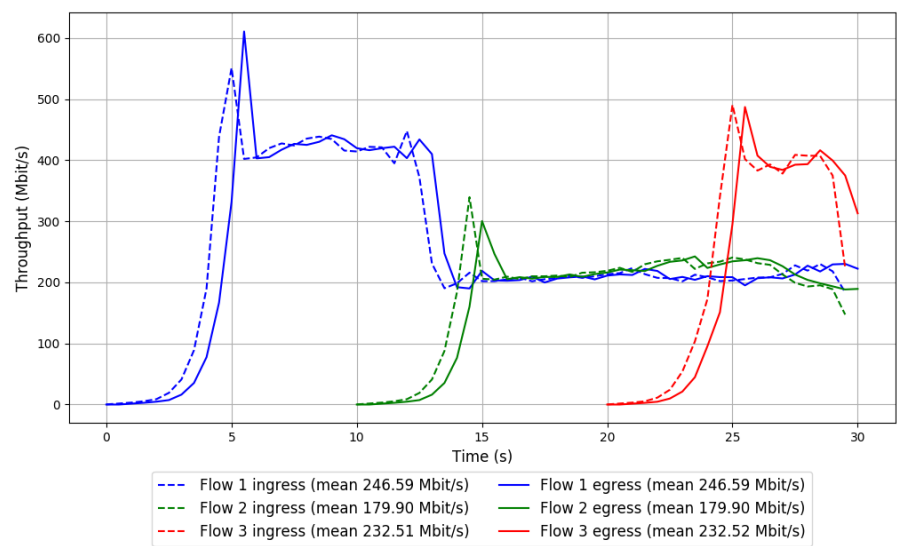


Run 2: Statistics of PCC-Vivace

Start at: 2019-02-11 16:50:38
End at: 2019-02-11 16:51:08
Local clock offset: -1.494 ms
Remote clock offset: -0.154 ms

Below is generated by plot.py at 2019-02-11 21:56:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 442.94 Mbit/s
95th percentile per-packet one-way delay: 114.991 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 246.59 Mbit/s
95th percentile per-packet one-way delay: 112.533 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 179.90 Mbit/s
95th percentile per-packet one-way delay: 111.466 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 232.52 Mbit/s
95th percentile per-packet one-way delay: 118.534 ms
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link

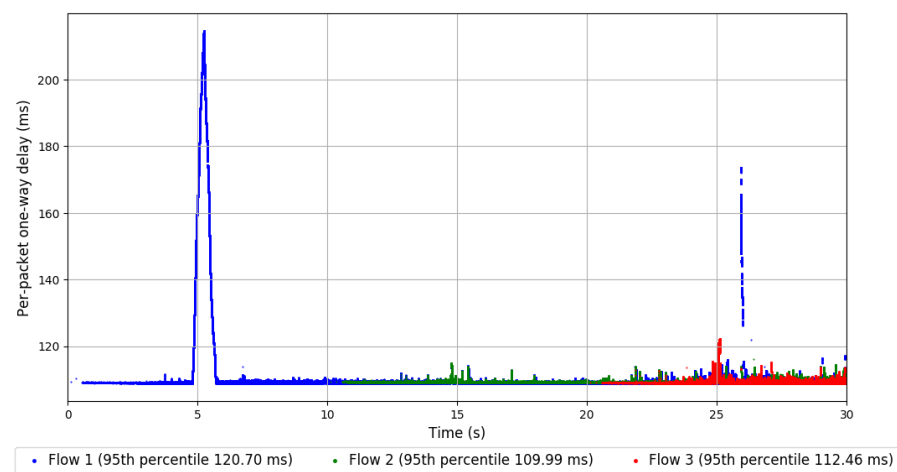
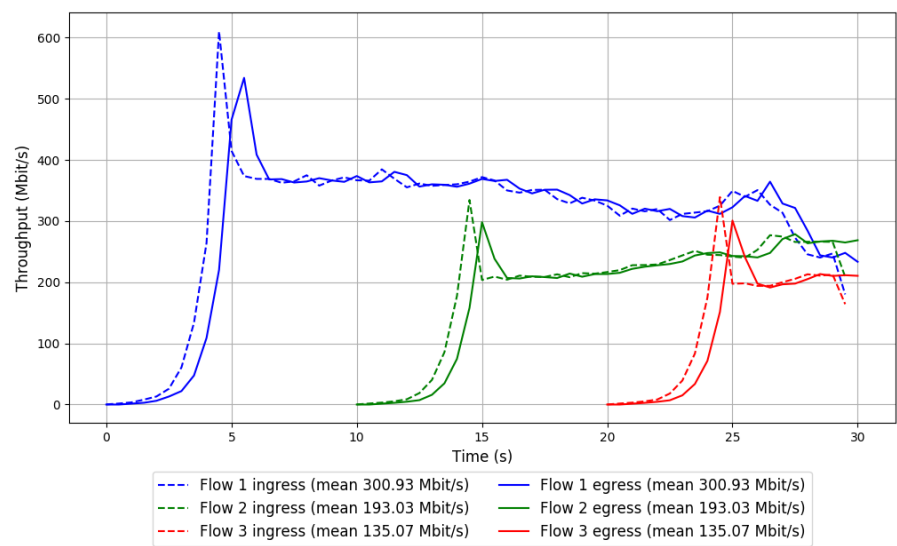


Run 3: Statistics of PCC-Vivace

Start at: 2019-02-11 17:29:02
End at: 2019-02-11 17:29:32
Local clock offset: -0.576 ms
Remote clock offset: -0.104 ms

Below is generated by plot.py at 2019-02-11 21:56:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 473.84 Mbit/s
95th percentile per-packet one-way delay: 111.558 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 300.93 Mbit/s
95th percentile per-packet one-way delay: 120.703 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 193.03 Mbit/s
95th percentile per-packet one-way delay: 109.986 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 135.07 Mbit/s
95th percentile per-packet one-way delay: 112.459 ms
Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link

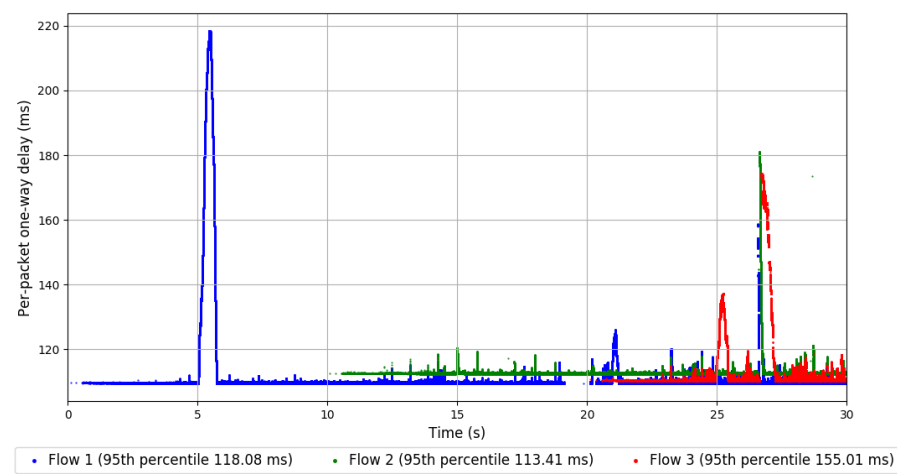
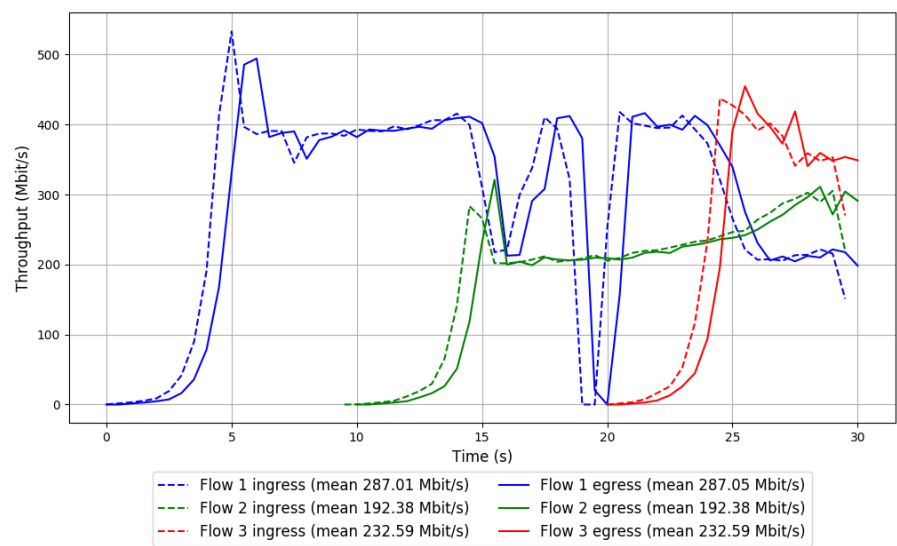


Run 4: Statistics of PCC-Vivace

Start at: 2019-02-11 18:07:09
End at: 2019-02-11 18:07:39
Local clock offset: -1.572 ms
Remote clock offset: -0.464 ms

Below is generated by plot.py at 2019-02-11 21:56:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 491.77 Mbit/s
95th percentile per-packet one-way delay: 122.849 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 287.05 Mbit/s
95th percentile per-packet one-way delay: 118.085 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 192.38 Mbit/s
95th percentile per-packet one-way delay: 113.407 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 232.59 Mbit/s
95th percentile per-packet one-way delay: 155.009 ms
Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-02-11 18:46:30

End at: 2019-02-11 18:47:00

Local clock offset: 0.199 ms

Remote clock offset: 0.312 ms

Below is generated by plot.py at 2019-02-11 21:56:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 501.27 Mbit/s

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

Loss rate: 0.01%

-- Flow 1:

Average throughput: 323.73 Mbit/s

95th percentile per-packet one-way delay: 158.166 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 195.70 Mbit/s

95th percentile per-packet one-way delay: 110.469 ms

Loss rate: 0.03%

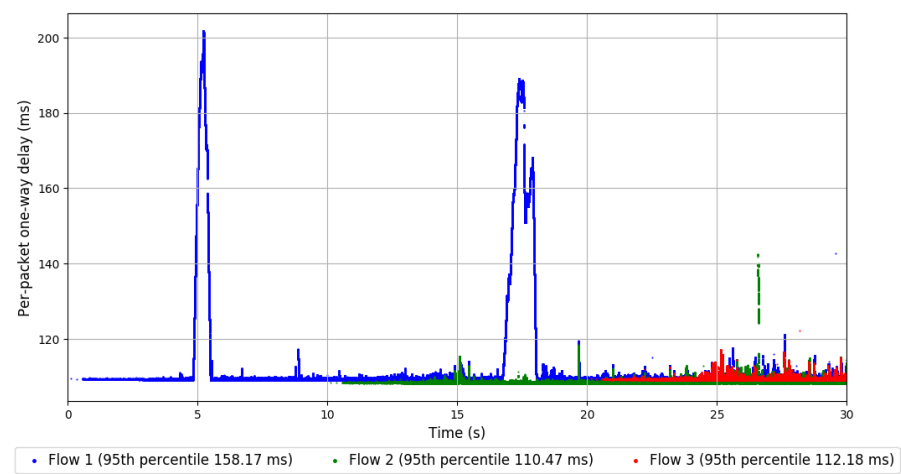
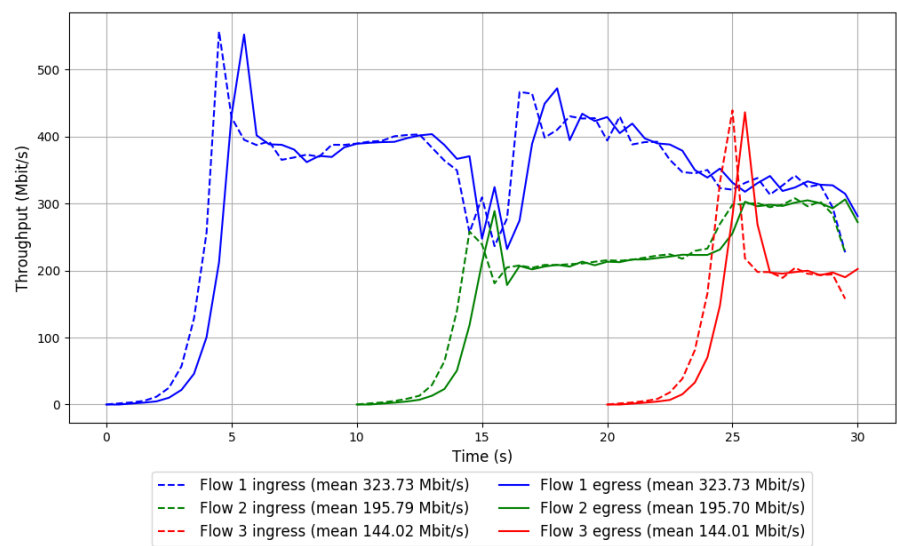
-- Flow 3:

Average throughput: 144.01 Mbit/s

95th percentile per-packet one-way delay: 112.179 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link

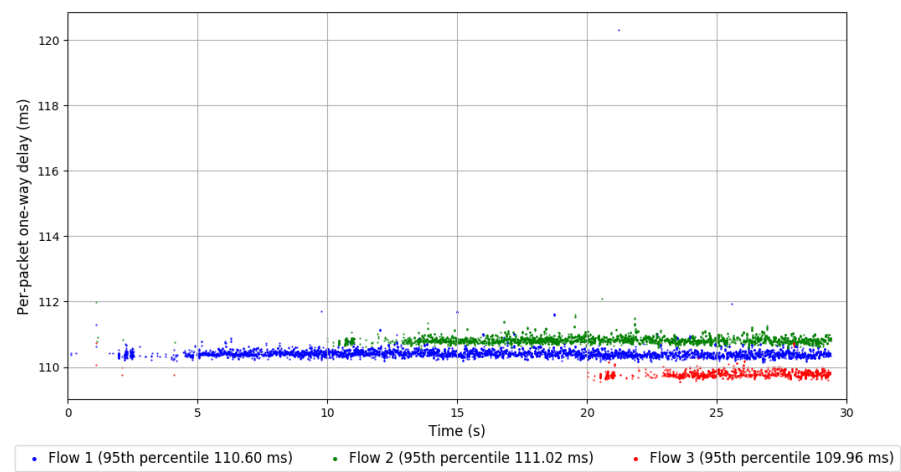
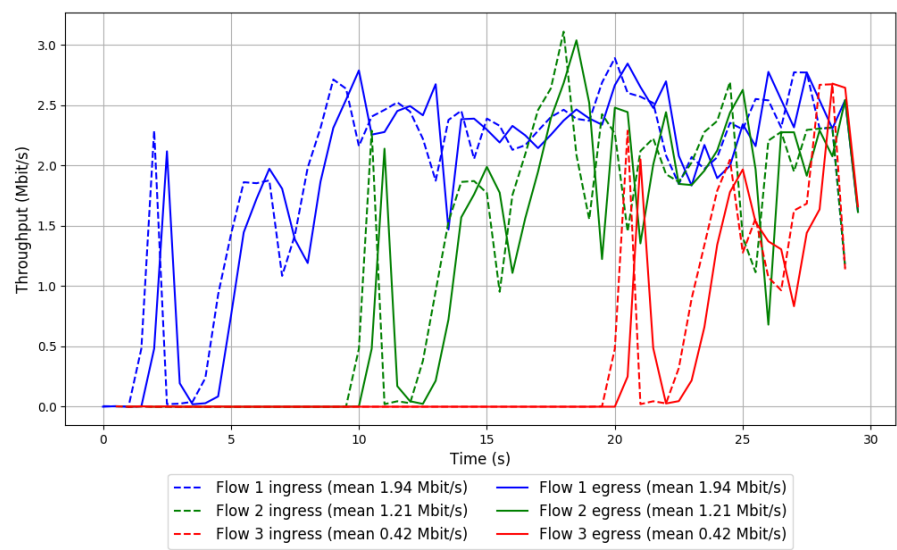


Run 1: Statistics of WebRTC media

Start at: 2019-02-11 16:34:05
End at: 2019-02-11 16:34:35
Local clock offset: -1.347 ms
Remote clock offset: -0.143 ms

Below is generated by plot.py at 2019-02-11 21:56:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.52 Mbit/s
95th percentile per-packet one-way delay: 110.933 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 110.596 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 111.019 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 109.963 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

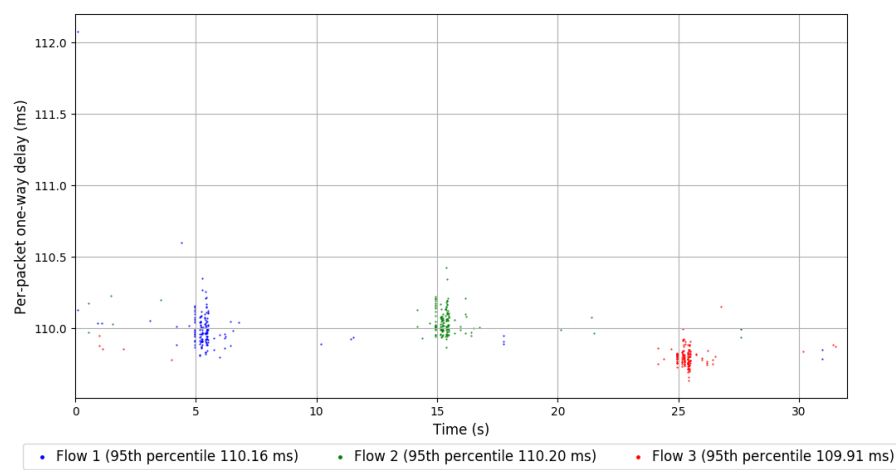
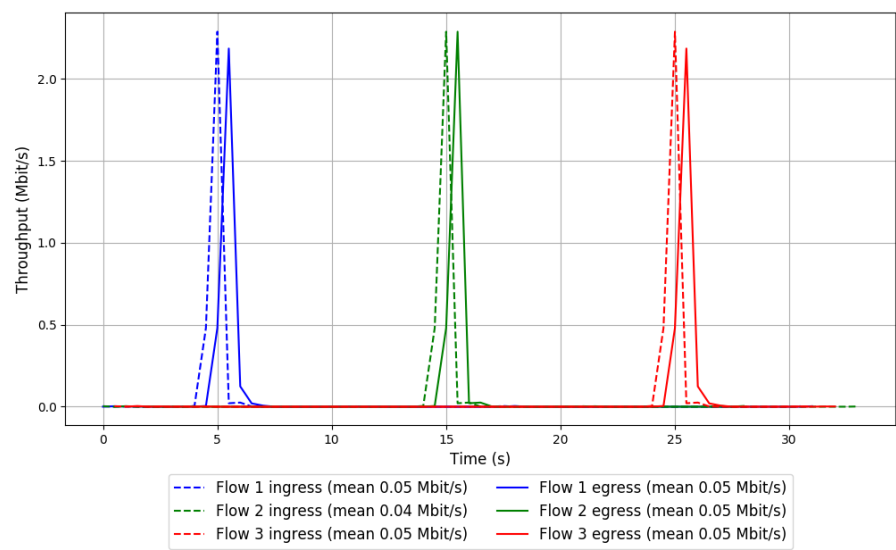


Run 2: Statistics of WebRTC media

Start at: 2019-02-11 17:12:36
End at: 2019-02-11 17:13:06
Local clock offset: -0.663 ms
Remote clock offset: -0.149 ms

Below is generated by plot.py at 2019-02-11 21:56:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 110.175 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 110.157 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 110.200 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.906 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-02-11 17:50:21

End at: 2019-02-11 17:50:51

Local clock offset: 0.355 ms

Remote clock offset: 0.282 ms

Below is generated by plot.py at 2019-02-11 21:56:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 109.682 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 108.618 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 109.777 ms

Loss rate: 0.00%

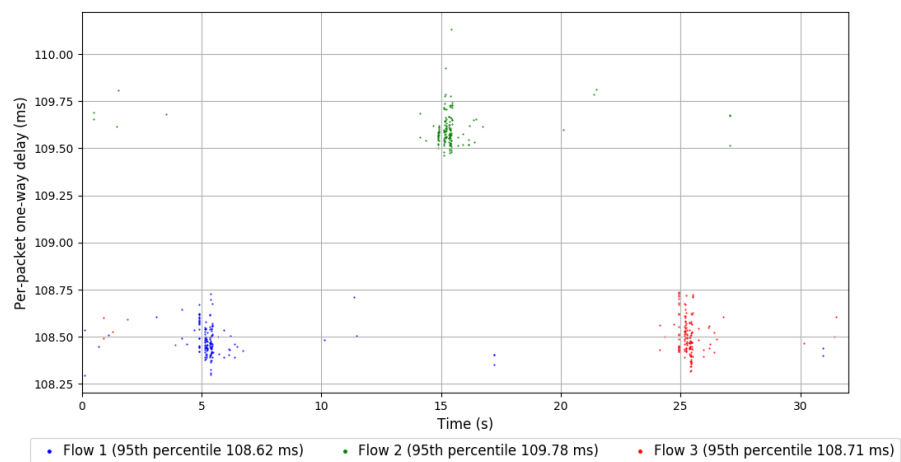
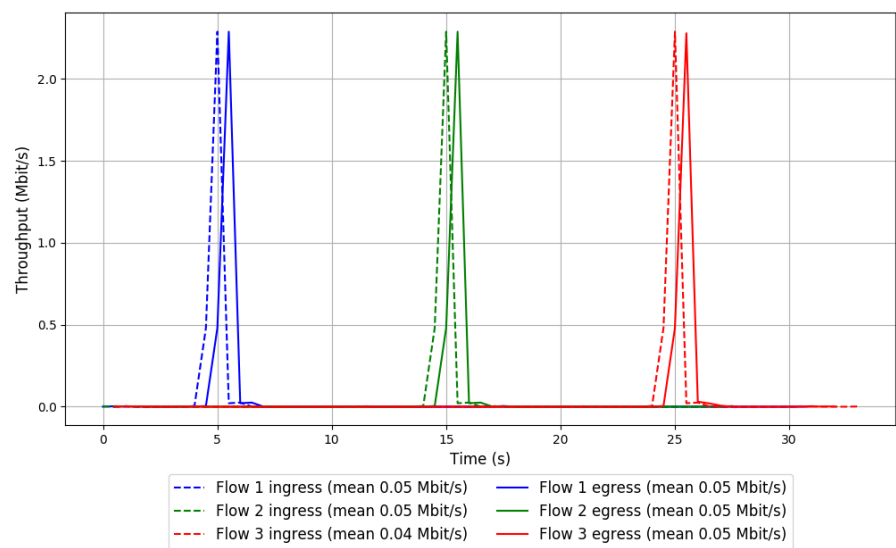
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 108.711 ms

Loss rate: 0.05%

Run 3: Report of WebRTC media — Data Link

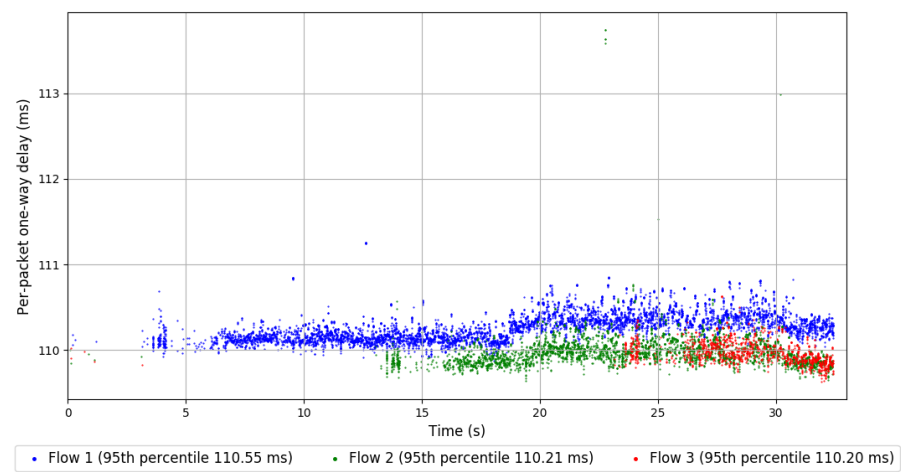
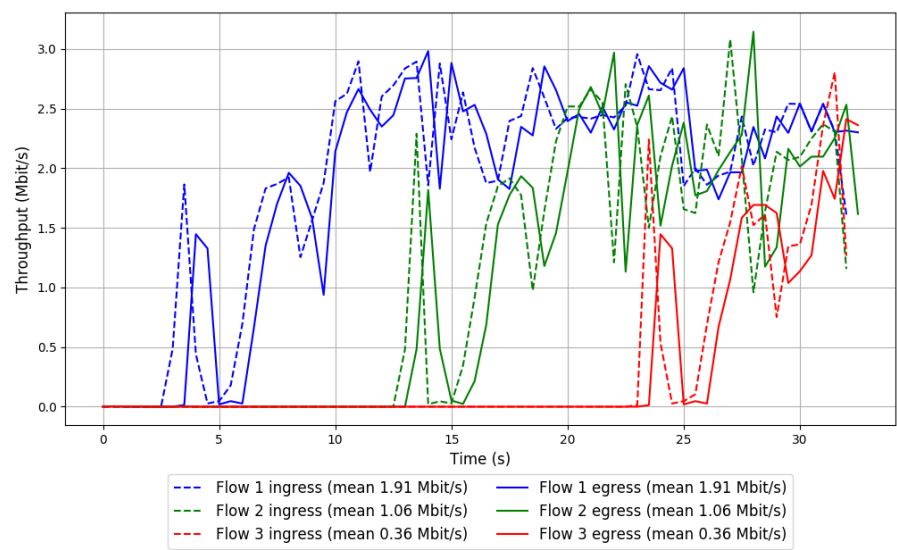


Run 4: Statistics of WebRTC media

Start at: 2019-02-11 18:29:25
End at: 2019-02-11 18:29:55
Local clock offset: -0.878 ms
Remote clock offset: -0.148 ms

Below is generated by plot.py at 2019-02-11 21:56:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.32 Mbit/s
95th percentile per-packet one-way delay: 110.478 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.91 Mbit/s
95th percentile per-packet one-way delay: 110.547 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.06 Mbit/s
95th percentile per-packet one-way delay: 110.214 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 110.199 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-02-11 19:08:08
End at: 2019-02-11 19:08:38
Local clock offset: -0.489 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2019-02-11 21:56:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 109.905 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.983 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.243 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.045 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

