

Pantheon Report

Generated at 2019-01-04 01:44:39 (UTC).

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

Repeated the test of 19 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:

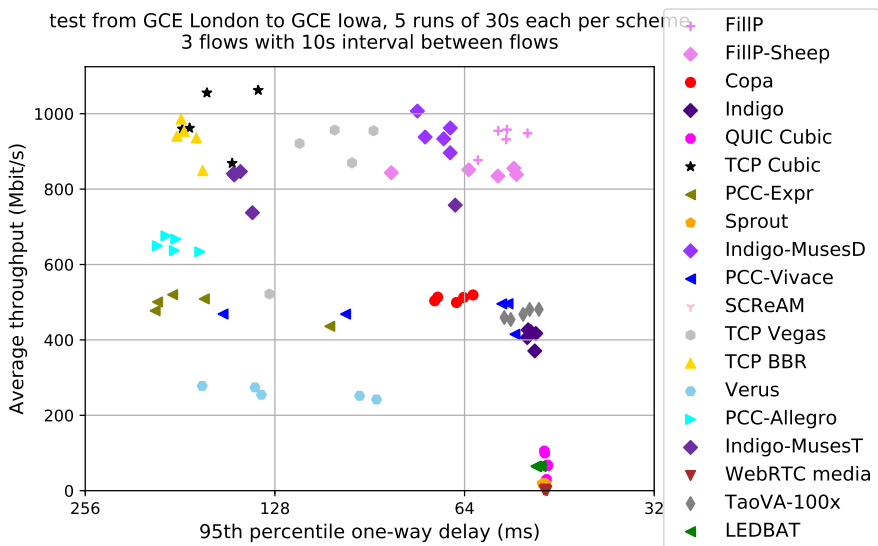
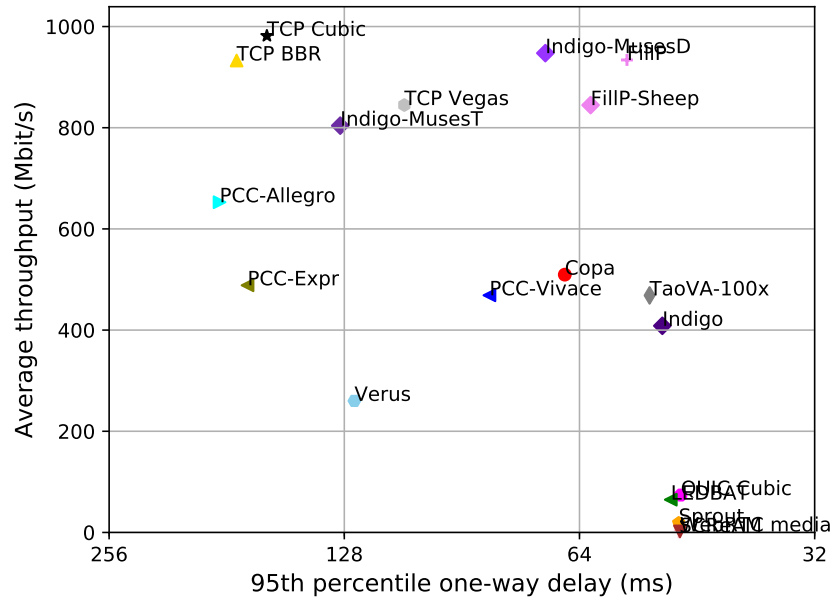
```
Linux 4.15.0-1025-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ c654af0b7d59d4ef4b914cfac404e1fc2e96dc68
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfc58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 65ac1b19bbefed0c6349ae986009b4fa8643c40a
third_party/muses-refactored @ 31f8f0ba8ef8b1da76c2bc0cd0a7850c33ff64fb
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 London to GCE Iowa, 5 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



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	490.07	447.74	434.71	175.00	175.03	173.81	1.07	0.71	1.48
Copa	5	269.64	237.55	245.73	61.89	72.64	72.92	0.01	0.03	0.05
TCP Cubic	5	521.22	477.19	428.49	153.22	146.35	155.38	0.21	0.42	0.55
FillP	5	595.74	378.36	260.46	58.55	53.12	51.23	0.00	0.00	0.00
FillP-Sheep	5	545.91	328.47	242.16	64.75	52.72	51.47	0.02	0.00	0.00
Indigo	5	211.30	208.65	181.51	50.25	50.09	49.51	0.00	0.00	0.00
Indigo-MusesD	5	516.59	453.69	395.81	71.22	72.46	65.08	0.01	0.03	0.09
Indigo-MusesT	5	463.01	371.40	350.33	106.59	84.33	93.77	0.58	0.10	0.70
LEDBAT	5	41.74	27.79	13.85	48.83	49.05	48.14	0.00	0.00	0.00
PCC-Allegro	5	366.54	300.24	263.43	191.23	115.45	158.48	3.88	0.91	2.19
PCC-Expr	5	269.28	239.72	181.20	175.90	136.86	86.23	6.80	2.59	0.07
QUIC Cubic	5	38.29	42.75	22.06	47.32	47.44	47.15	0.00	0.00	0.00
SCReAM	5	0.22	0.22	0.22	47.70	47.62	47.62	0.00	0.00	0.00
Sprout	5	9.60	9.46	9.26	47.56	47.85	47.55	0.00	0.00	0.00
TaoVA-100x	5	241.80	229.82	221.82	49.89	53.20	54.06	0.00	0.00	0.01
TCP Vegas	5	406.54	456.22	404.42	86.81	98.54	98.25	0.07	0.12	0.37
Verus	5	139.44	139.91	84.70	107.16	134.45	75.97	0.07	0.53	0.00
PCC-Vivace	5	278.80	238.42	95.31	93.56	59.54	57.40	0.12	0.00	0.02
WebRTC media	5	1.27	0.58	0.15	47.62	47.29	47.30	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-01-03 20:33:48

End at: 2019-01-03 20:34:18

Local clock offset: -0.174 ms

Remote clock offset: 0.232 ms

Below is generated by plot.py at 2019-01-03 23:37:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 849.11 Mbit/s

95th percentile per-packet one-way delay: 166.639 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 446.77 Mbit/s

95th percentile per-packet one-way delay: 163.880 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 374.43 Mbit/s

95th percentile per-packet one-way delay: 166.194 ms

Loss rate: 0.06%

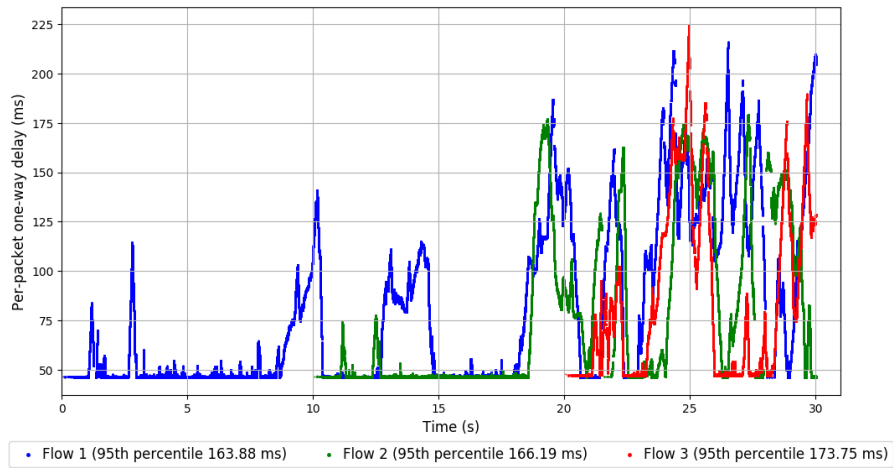
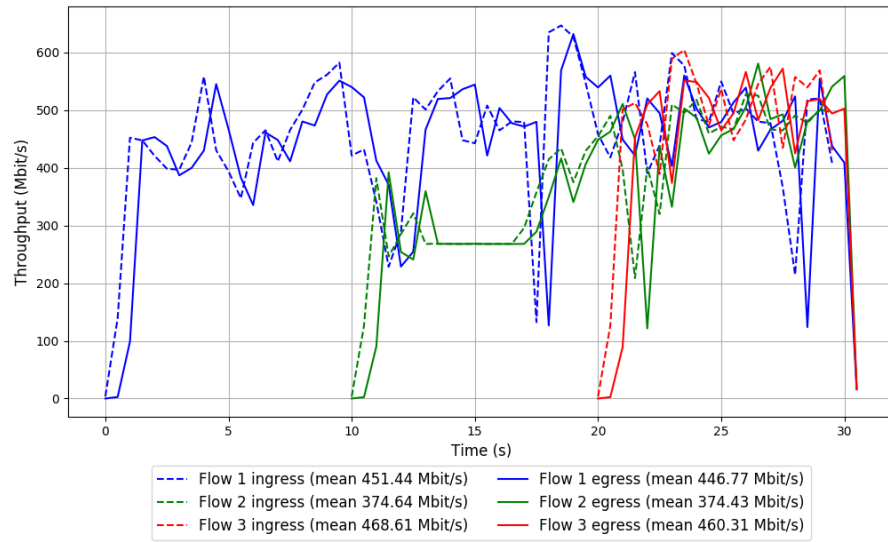
-- Flow 3:

Average throughput: 460.31 Mbit/s

95th percentile per-packet one-way delay: 173.749 ms

Loss rate: 1.78%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-01-03 21:06:00

End at: 2019-01-03 21:06:30

Local clock offset: -0.288 ms

Remote clock offset: 0.385 ms

Below is generated by plot.py at 2019-01-03 23:39:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 985.75 Mbit/s

95th percentile per-packet one-way delay: 180.296 ms

Loss rate: 1.47%

-- Flow 1:

Average throughput: 515.12 Mbit/s

95th percentile per-packet one-way delay: 176.552 ms

Loss rate: 1.83%

-- Flow 2:

Average throughput: 500.91 Mbit/s

95th percentile per-packet one-way delay: 190.853 ms

Loss rate: 1.37%

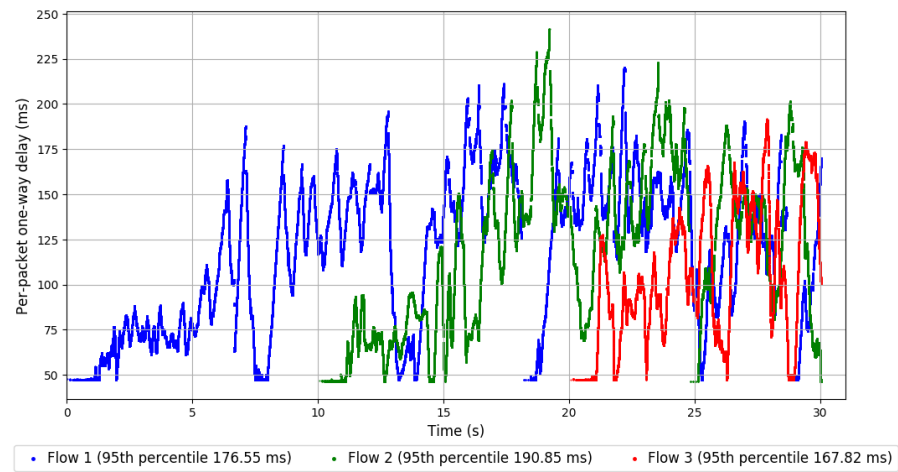
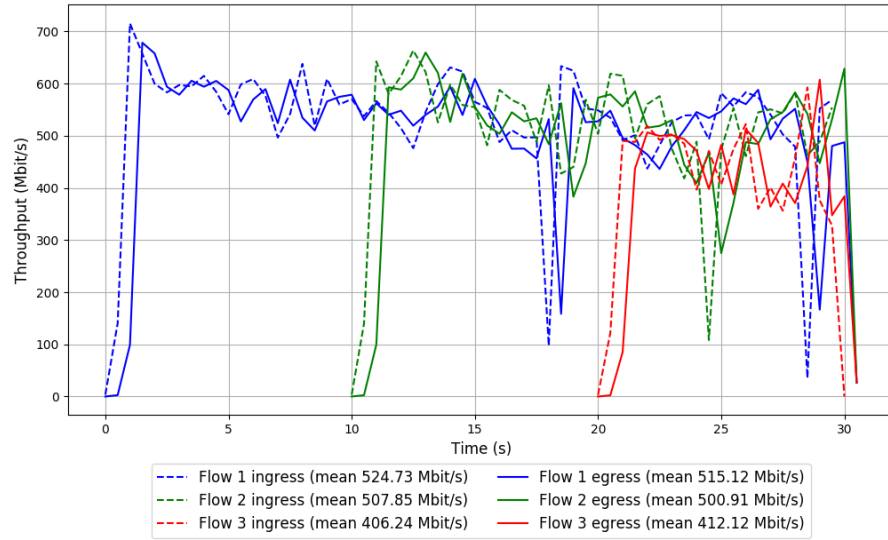
-- Flow 3:

Average throughput: 412.12 Mbit/s

95th percentile per-packet one-way delay: 167.823 ms

Loss rate: 0.37%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-01-03 21:38:13

End at: 2019-01-03 21:38:43

Local clock offset: -0.286 ms

Remote clock offset: 0.514 ms

Below is generated by plot.py at 2019-01-03 23:39:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 940.36 Mbit/s

95th percentile per-packet one-way delay: 183.106 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 493.84 Mbit/s

95th percentile per-packet one-way delay: 174.018 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 453.19 Mbit/s

95th percentile per-packet one-way delay: 191.930 ms

Loss rate: 0.75%

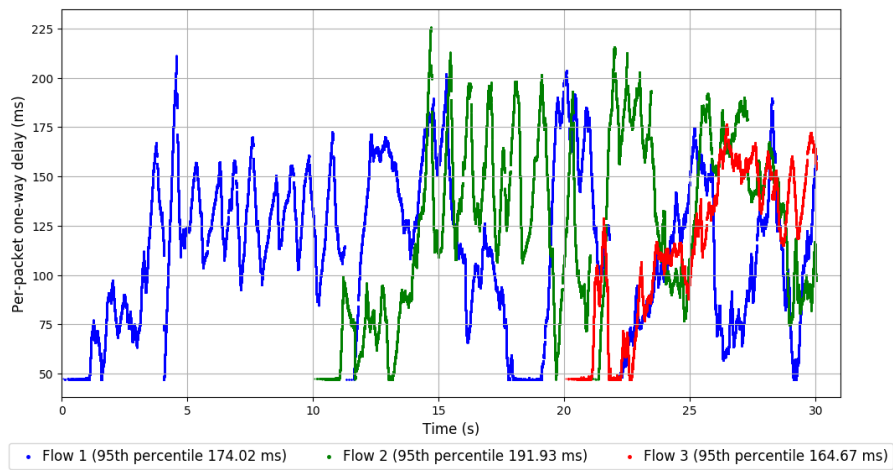
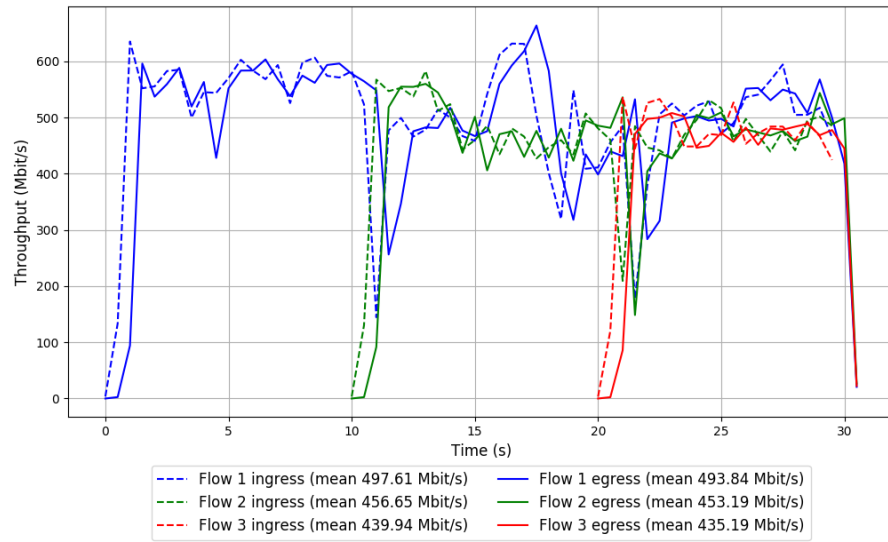
-- Flow 3:

Average throughput: 435.19 Mbit/s

95th percentile per-packet one-way delay: 164.671 ms

Loss rate: 1.08%

Run 3: Report of TCP BBR — Data Link

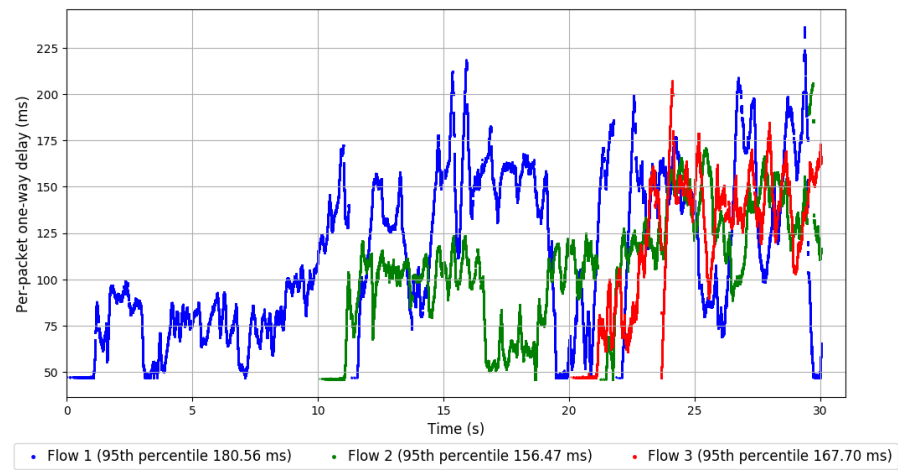
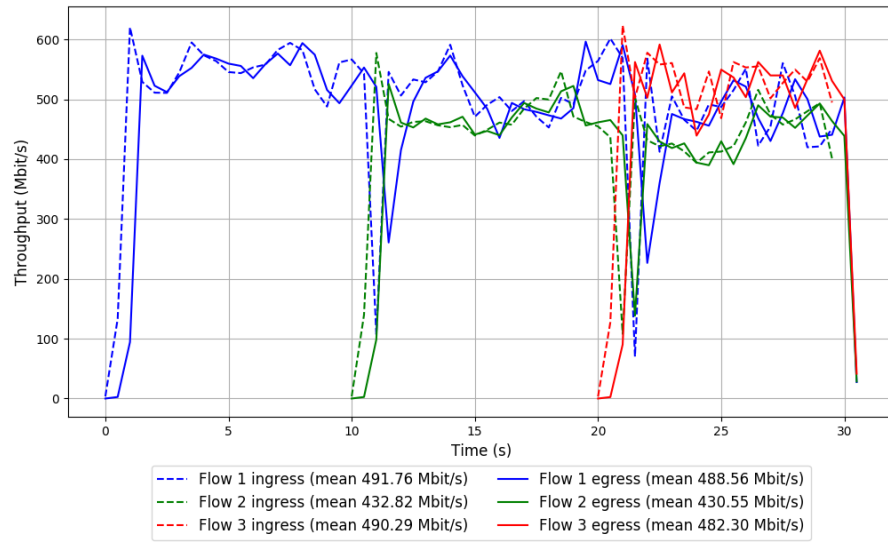


Run 4: Statistics of TCP BBR

Start at: 2019-01-03 22:10:18
End at: 2019-01-03 22:10:48
Local clock offset: -0.005 ms
Remote clock offset: -0.051 ms

Below is generated by plot.py at 2019-01-03 23:39:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 935.78 Mbit/s
95th percentile per-packet one-way delay: 170.563 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 488.56 Mbit/s
95th percentile per-packet one-way delay: 180.560 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 430.55 Mbit/s
95th percentile per-packet one-way delay: 156.475 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 482.30 Mbit/s
95th percentile per-packet one-way delay: 167.700 ms
Loss rate: 1.61%

Run 4: Report of TCP BBR — Data Link

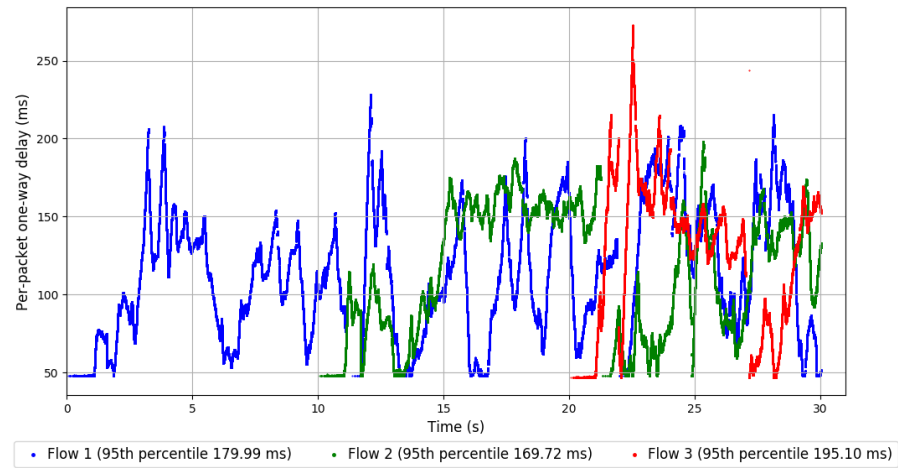
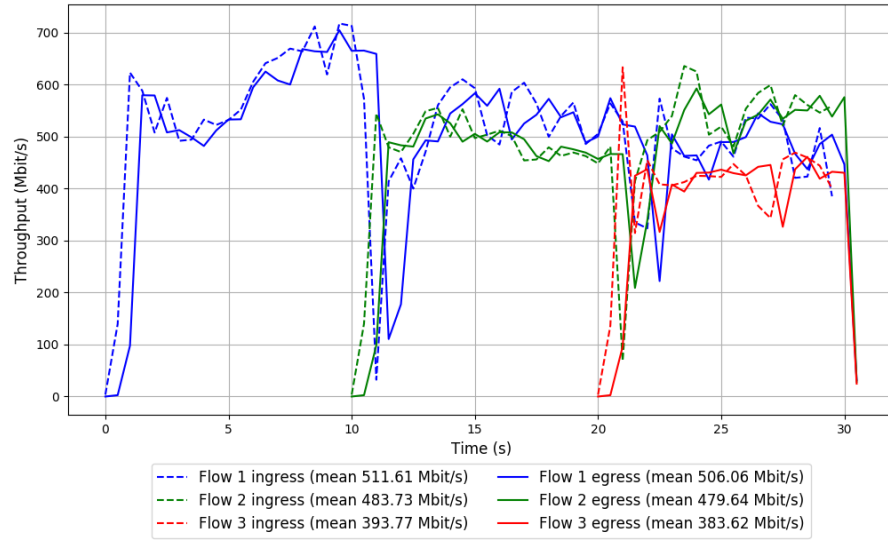


Run 5: Statistics of TCP BBR

Start at: 2019-01-03 22:42:06
End at: 2019-01-03 22:42:36
Local clock offset: -0.461 ms
Remote clock offset: -0.116 ms

Below is generated by plot.py at 2019-01-03 23:39:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 953.32 Mbit/s
95th percentile per-packet one-way delay: 178.408 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 506.06 Mbit/s
95th percentile per-packet one-way delay: 179.992 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 479.64 Mbit/s
95th percentile per-packet one-way delay: 169.720 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 383.62 Mbit/s
95th percentile per-packet one-way delay: 195.096 ms
Loss rate: 2.56%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-01-03 20:25:21

End at: 2019-01-03 20:25:51

Local clock offset: -0.211 ms

Remote clock offset: 0.146 ms

Below is generated by plot.py at 2019-01-03 23:39:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 519.24 Mbit/s

95th percentile per-packet one-way delay: 62.047 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 301.00 Mbit/s

95th percentile per-packet one-way delay: 59.067 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 210.07 Mbit/s

95th percentile per-packet one-way delay: 78.120 ms

Loss rate: 0.00%

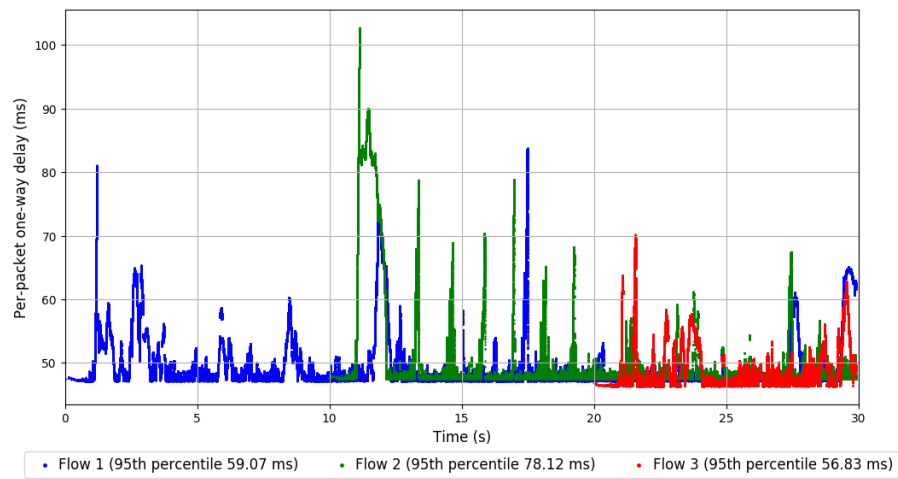
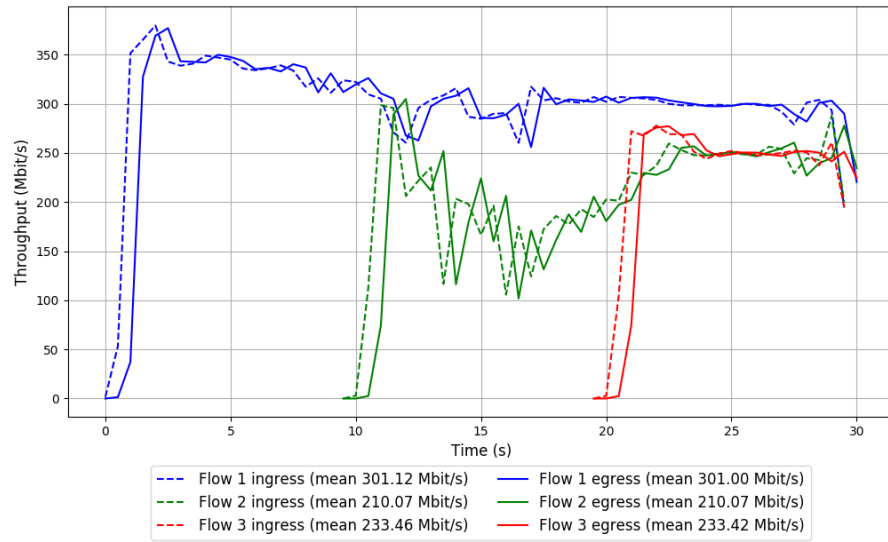
-- Flow 3:

Average throughput: 233.42 Mbit/s

95th percentile per-packet one-way delay: 56.831 ms

Loss rate: 0.01%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-01-03 20:57:36

End at: 2019-01-03 20:58:06

Local clock offset: -0.229 ms

Remote clock offset: 0.344 ms

Below is generated by plot.py at 2019-01-03 23:39:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 513.33 Mbit/s

95th percentile per-packet one-way delay: 70.602 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 260.65 Mbit/s

95th percentile per-packet one-way delay: 66.870 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 260.19 Mbit/s

95th percentile per-packet one-way delay: 67.859 ms

Loss rate: 0.00%

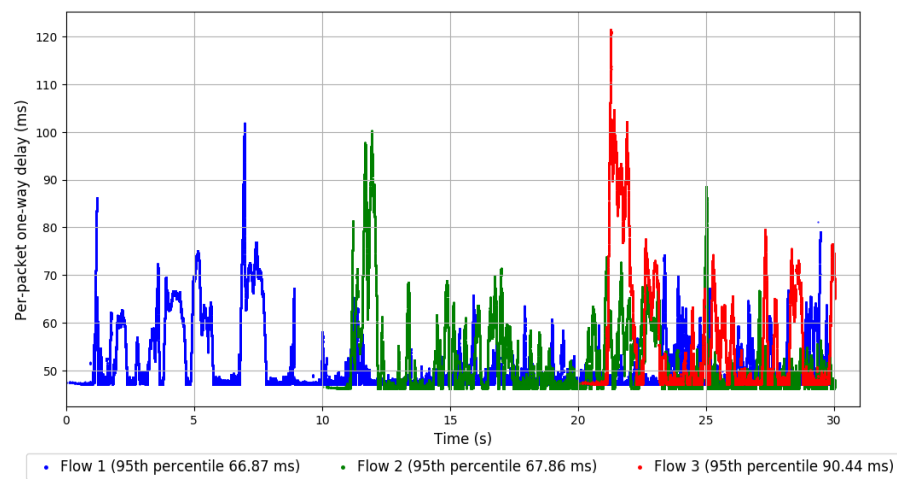
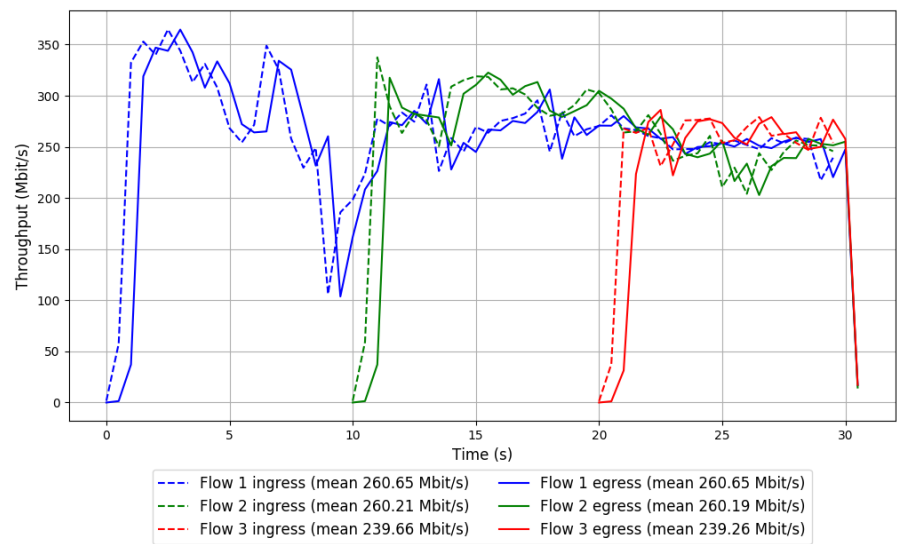
-- Flow 3:

Average throughput: 239.26 Mbit/s

95th percentile per-packet one-way delay: 90.435 ms

Loss rate: 0.14%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-01-03 21:29:53

End at: 2019-01-03 21:30:23

Local clock offset: 0.091 ms

Remote clock offset: 0.501 ms

Below is generated by plot.py at 2019-01-03 23:39:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 503.71 Mbit/s

95th percentile per-packet one-way delay: 71.375 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 259.74 Mbit/s

95th percentile per-packet one-way delay: 65.787 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 241.05 Mbit/s

95th percentile per-packet one-way delay: 75.465 ms

Loss rate: 0.00%

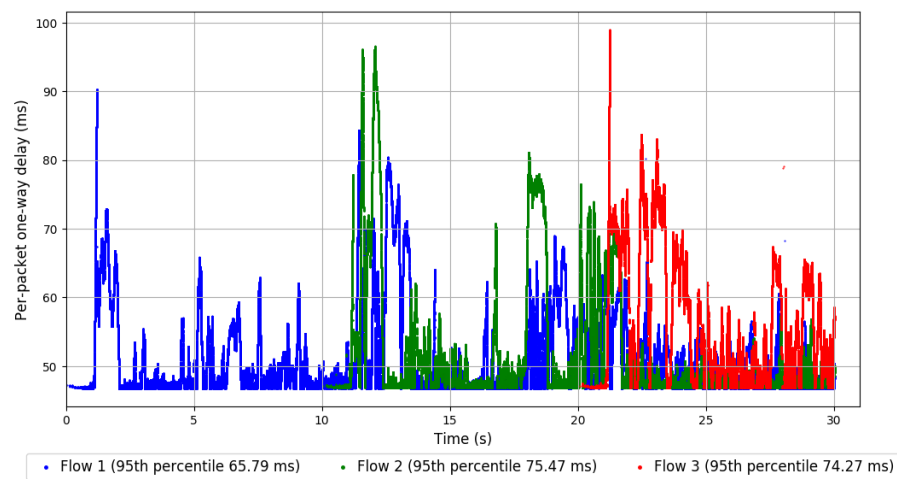
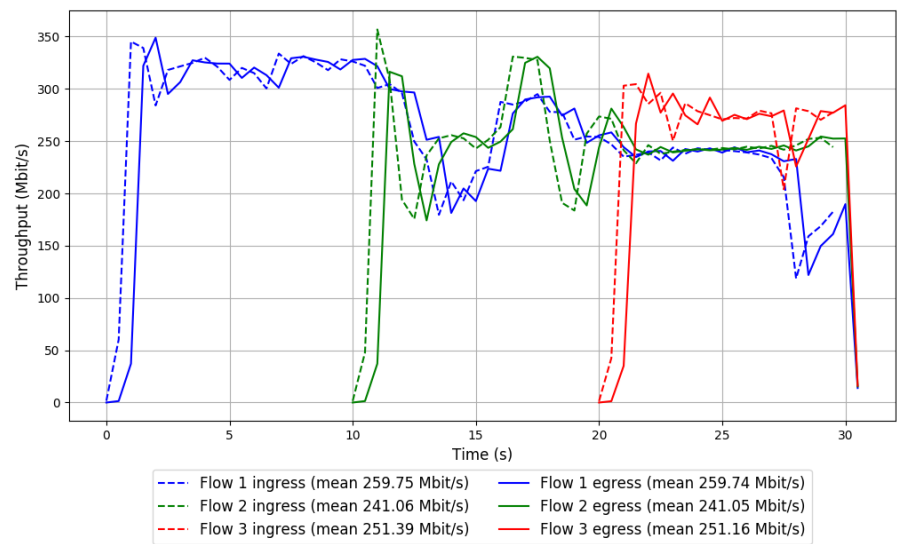
-- Flow 3:

Average throughput: 251.16 Mbit/s

95th percentile per-packet one-way delay: 74.274 ms

Loss rate: 0.07%

Run 3: Report of Copa — Data Link

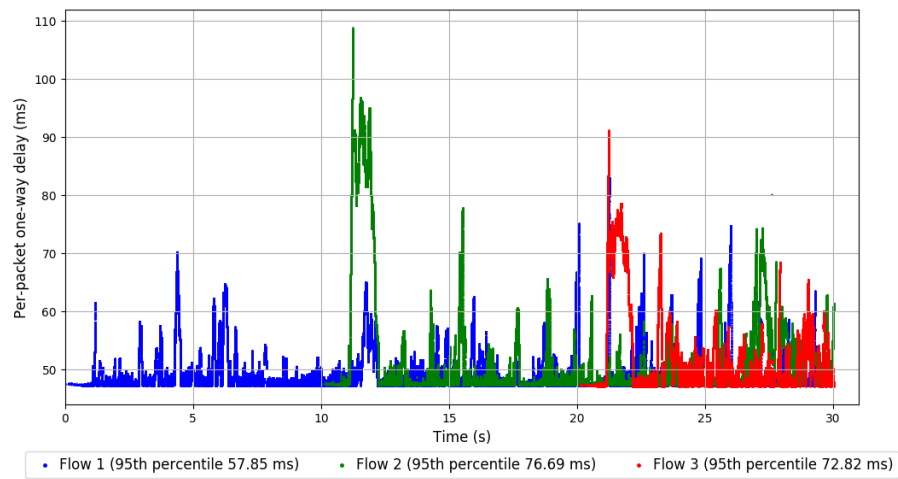
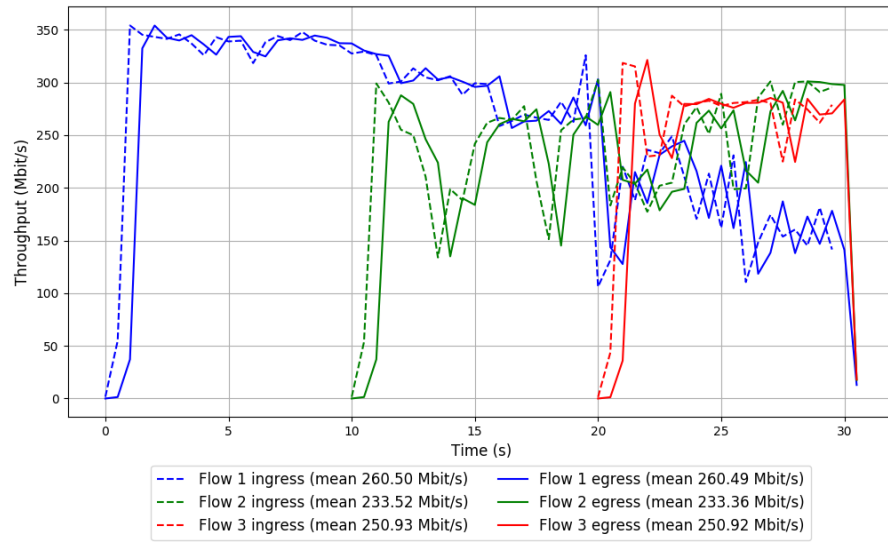


Run 4: Statistics of Copa

Start at: 2019-01-03 22:02:05
End at: 2019-01-03 22:02:35
Local clock offset: -0.323 ms
Remote clock offset: 0.122 ms

Below is generated by plot.py at 2019-01-03 23:52:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 499.21 Mbit/s
95th percentile per-packet one-way delay: 65.919 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 260.49 Mbit/s
95th percentile per-packet one-way delay: 57.846 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 233.36 Mbit/s
95th percentile per-packet one-way delay: 76.694 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 250.92 Mbit/s
95th percentile per-packet one-way delay: 72.821 ms
Loss rate: 0.00%

Run 4: Report of Copa — Data Link

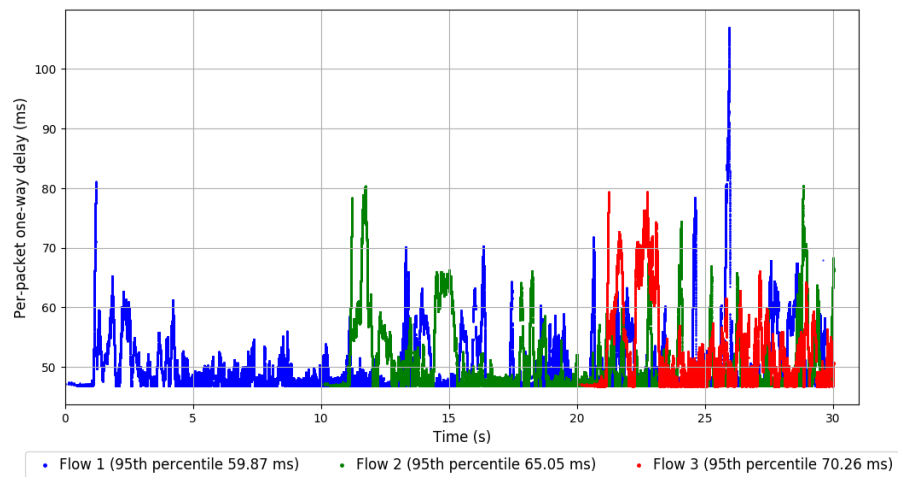
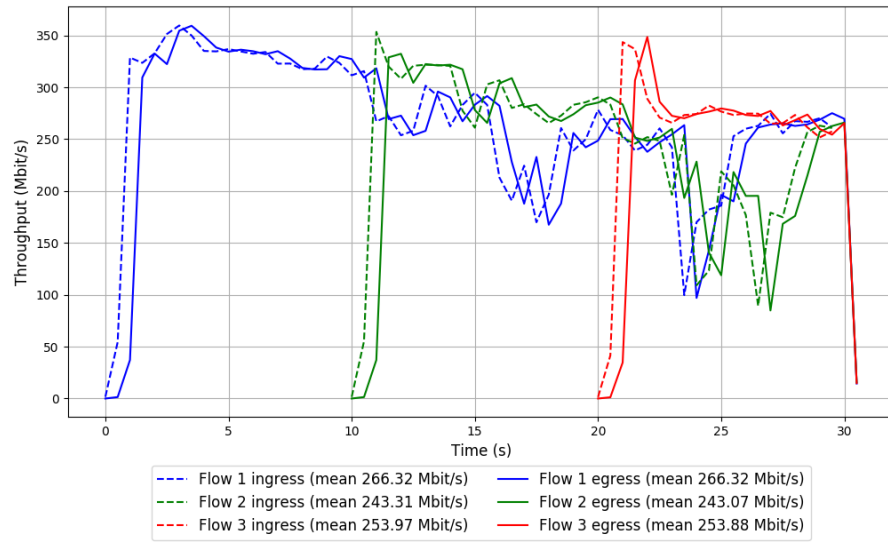


Run 5: Statistics of Copa

Start at: 2019-01-03 22:33:49
End at: 2019-01-03 22:34:19
Local clock offset: 0.172 ms
Remote clock offset: -0.153 ms

Below is generated by plot.py at 2019-01-03 23:55:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 512.47 Mbit/s
95th percentile per-packet one-way delay: 64.216 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 266.32 Mbit/s
95th percentile per-packet one-way delay: 59.871 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 243.07 Mbit/s
95th percentile per-packet one-way delay: 65.050 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 253.88 Mbit/s
95th percentile per-packet one-way delay: 70.259 ms
Loss rate: 0.04%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-01-03 20:29:45

End at: 2019-01-03 20:30:15

Local clock offset: -0.198 ms

Remote clock offset: 0.224 ms

Below is generated by plot.py at 2019-01-03 23:57:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 1062.39 Mbit/s

95th percentile per-packet one-way delay: 136.022 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 545.83 Mbit/s

95th percentile per-packet one-way delay: 120.247 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 540.62 Mbit/s

95th percentile per-packet one-way delay: 147.582 ms

Loss rate: 0.44%

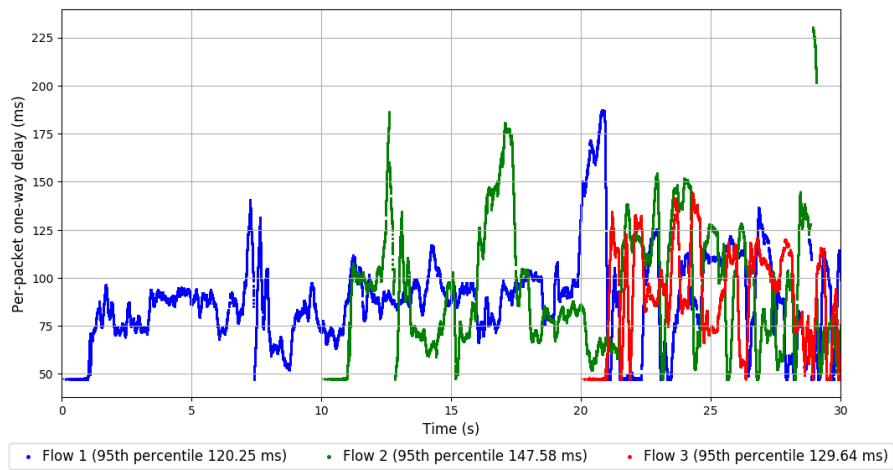
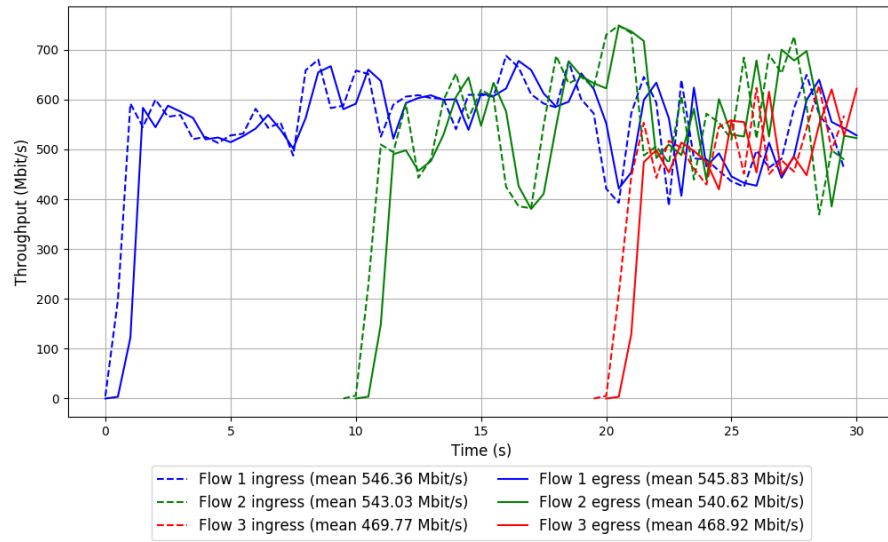
-- Flow 3:

Average throughput: 468.92 Mbit/s

95th percentile per-packet one-way delay: 129.640 ms

Loss rate: 0.18%

Run 1: Report of TCP Cubic — Data Link

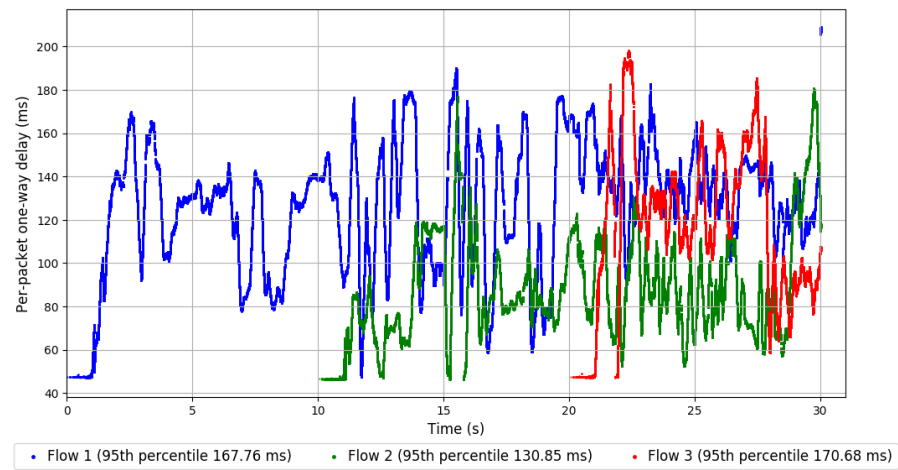
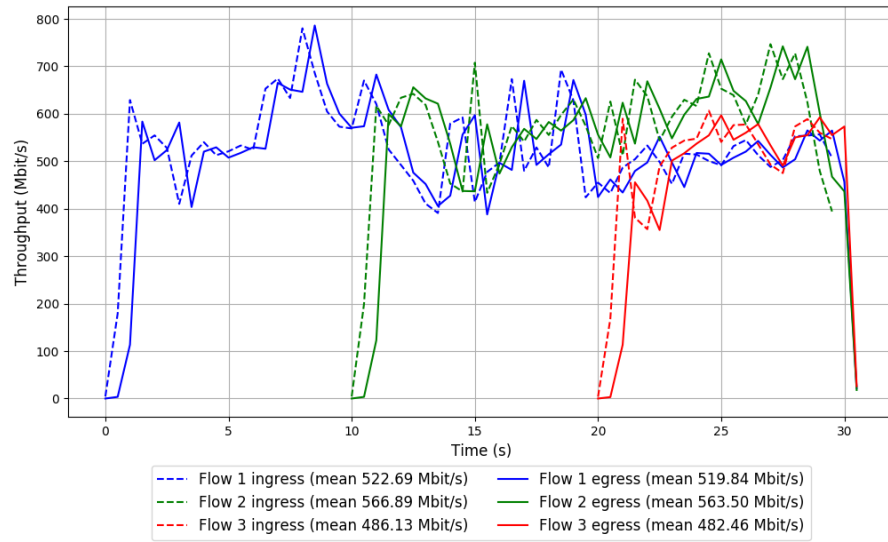


Run 2: Statistics of TCP Cubic

Start at: 2019-01-03 21:02:00
End at: 2019-01-03 21:02:30
Local clock offset: -0.233 ms
Remote clock offset: 0.383 ms

Below is generated by plot.py at 2019-01-03 23:57:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 1055.46 Mbit/s
95th percentile per-packet one-way delay: 164.089 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 519.84 Mbit/s
95th percentile per-packet one-way delay: 167.762 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 563.50 Mbit/s
95th percentile per-packet one-way delay: 130.851 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 482.46 Mbit/s
95th percentile per-packet one-way delay: 170.684 ms
Loss rate: 0.74%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-01-03 21:34:19

End at: 2019-01-03 21:34:49

Local clock offset: -0.239 ms

Remote clock offset: 0.542 ms

Below is generated by plot.py at 2019-01-03 23:57:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 868.61 Mbit/s

95th percentile per-packet one-way delay: 149.623 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 477.07 Mbit/s

95th percentile per-packet one-way delay: 152.709 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 401.95 Mbit/s

95th percentile per-packet one-way delay: 146.187 ms

Loss rate: 0.28%

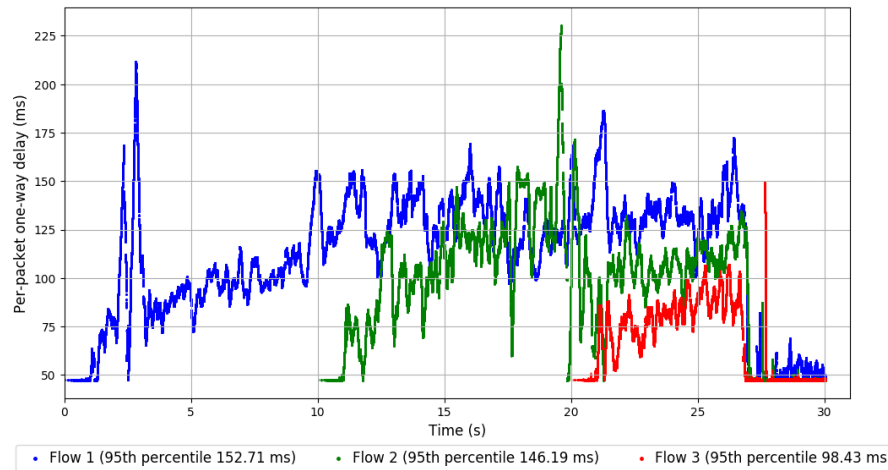
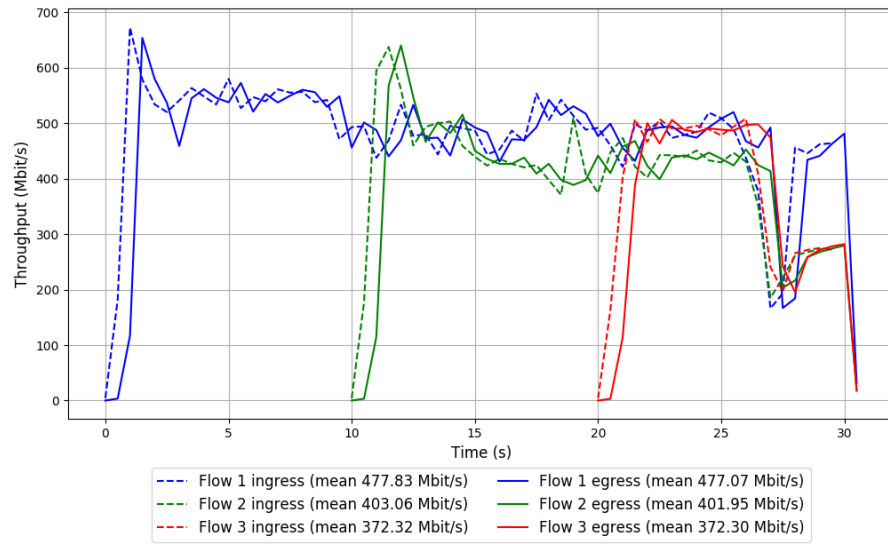
-- Flow 3:

Average throughput: 372.30 Mbit/s

95th percentile per-packet one-way delay: 98.429 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-01-03 22:06:30

End at: 2019-01-03 22:07:00

Local clock offset: -0.321 ms

Remote clock offset: 0.013 ms

Below is generated by plot.py at 2019-01-03 23:57:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 959.76 Mbit/s

95th percentile per-packet one-way delay: 179.498 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 552.74 Mbit/s

95th percentile per-packet one-way delay: 152.721 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 388.74 Mbit/s

95th percentile per-packet one-way delay: 197.823 ms

Loss rate: 0.58%

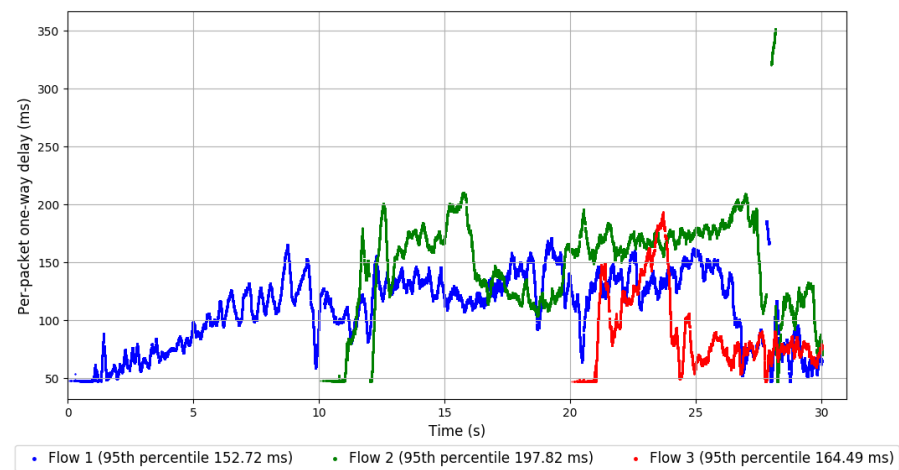
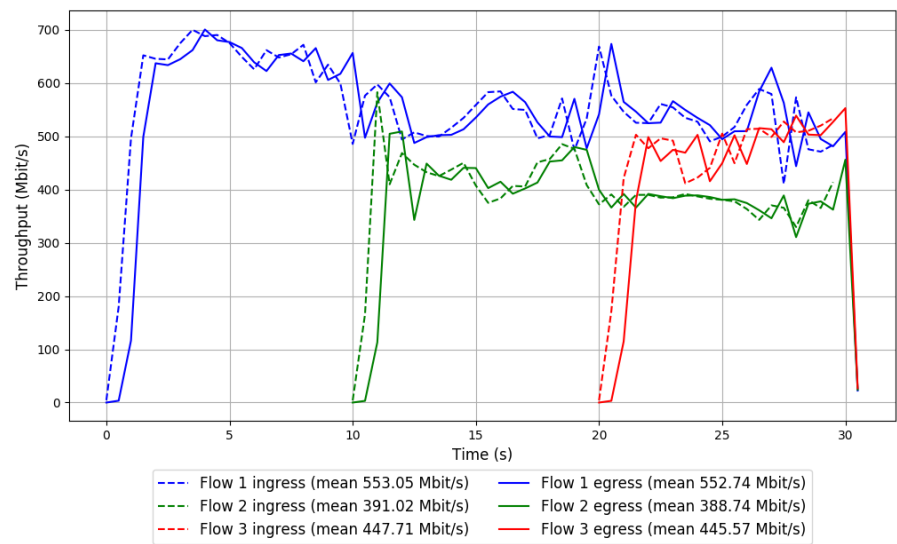
-- Flow 3:

Average throughput: 445.57 Mbit/s

95th percentile per-packet one-way delay: 164.494 ms

Loss rate: 0.47%

Run 4: Report of TCP Cubic — Data Link

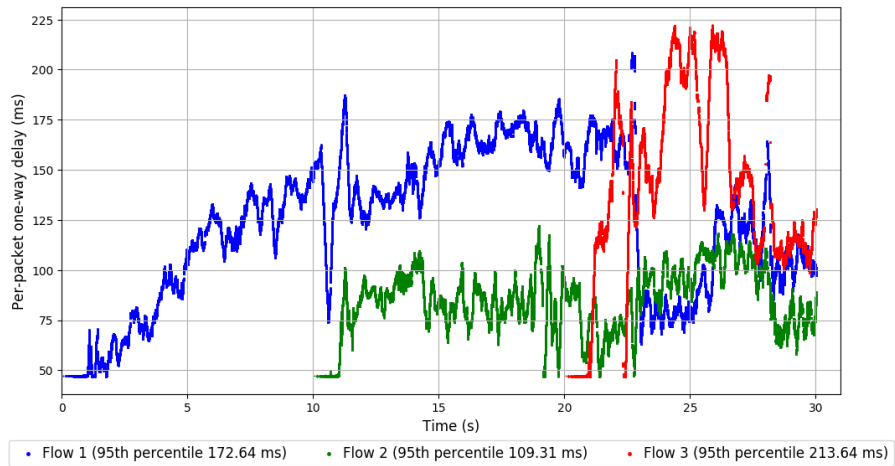
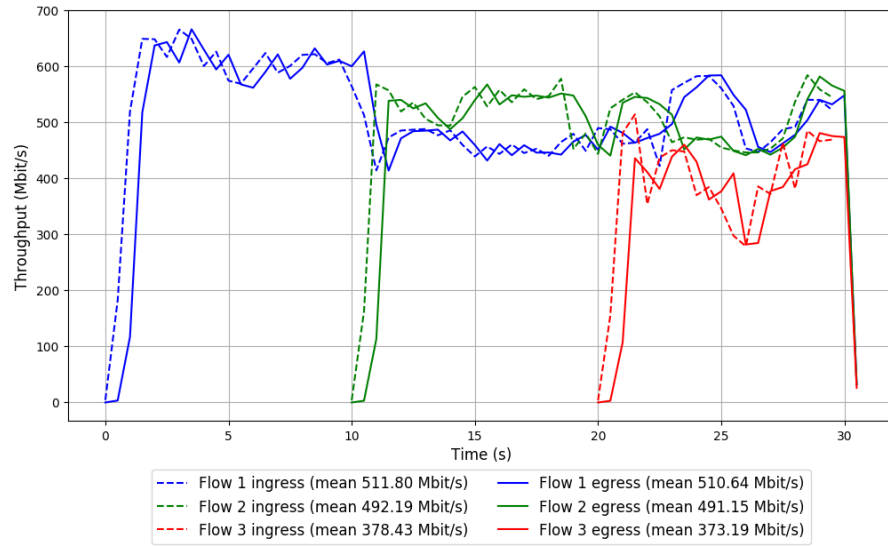


Run 5: Statistics of TCP Cubic

Start at: 2019-01-03 22:38:14
End at: 2019-01-03 22:38:44
Local clock offset: 0.22 ms
Remote clock offset: -0.102 ms

Below is generated by plot.py at 2019-01-03 23:57:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 961.86 Mbit/s
95th percentile per-packet one-way delay: 174.825 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 510.64 Mbit/s
95th percentile per-packet one-way delay: 172.639 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 491.15 Mbit/s
95th percentile per-packet one-way delay: 109.314 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 373.19 Mbit/s
95th percentile per-packet one-way delay: 213.640 ms
Loss rate: 1.38%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-01-03 20:35:46

End at: 2019-01-03 20:36:16

Local clock offset: -0.214 ms

Remote clock offset: 0.268 ms

Below is generated by plot.py at 2019-01-03 23:59:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 948.26 Mbit/s

95th percentile per-packet one-way delay: 50.840 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 602.39 Mbit/s

95th percentile per-packet one-way delay: 49.914 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 398.67 Mbit/s

95th percentile per-packet one-way delay: 52.705 ms

Loss rate: 0.00%

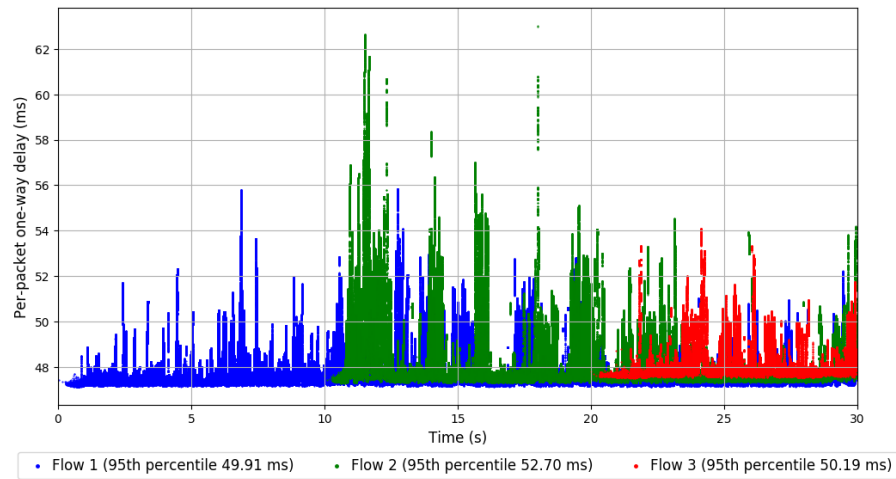
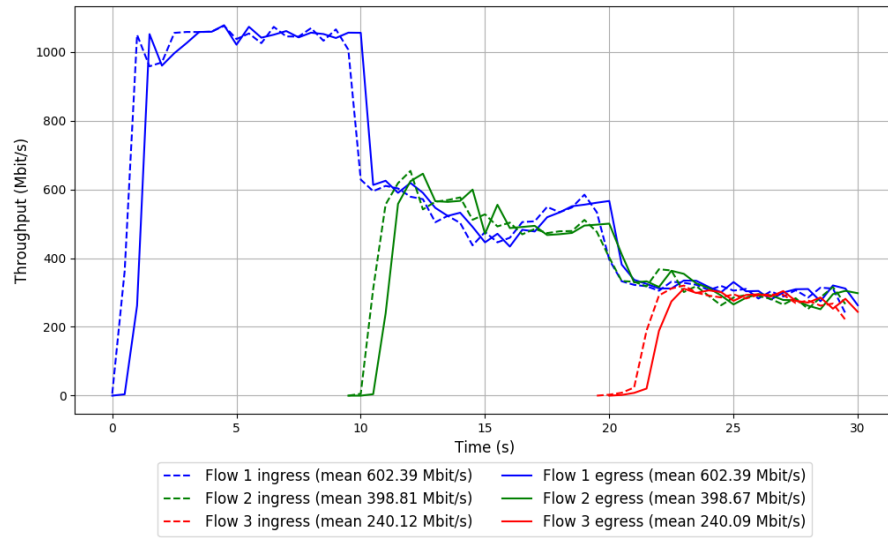
-- Flow 3:

Average throughput: 240.09 Mbit/s

95th percentile per-packet one-way delay: 50.191 ms

Loss rate: 0.01%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-01-03 21:08:02

End at: 2019-01-03 21:08:32

Local clock offset: -0.228 ms

Remote clock offset: 0.414 ms

Below is generated by plot.py at 2019-01-04 00:14:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 954.64 Mbit/s

95th percentile per-packet one-way delay: 56.600 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 619.71 Mbit/s

95th percentile per-packet one-way delay: 61.887 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 372.97 Mbit/s

95th percentile per-packet one-way delay: 53.668 ms

Loss rate: 0.00%

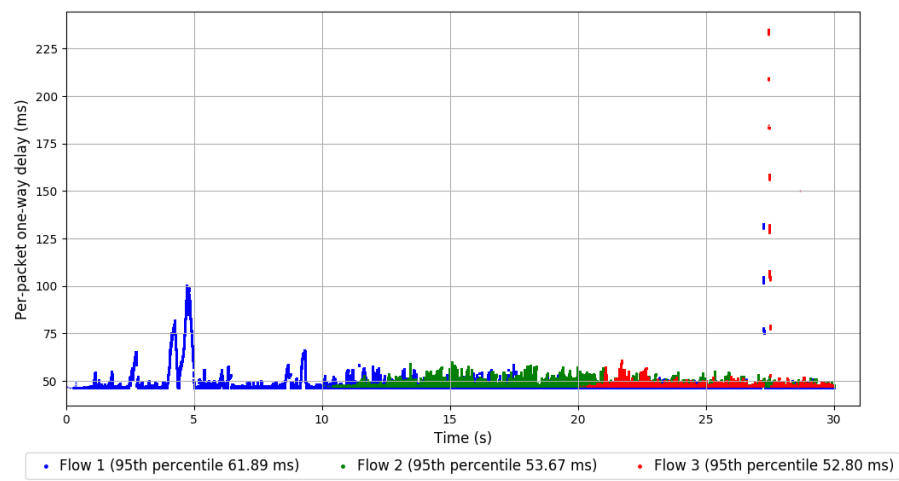
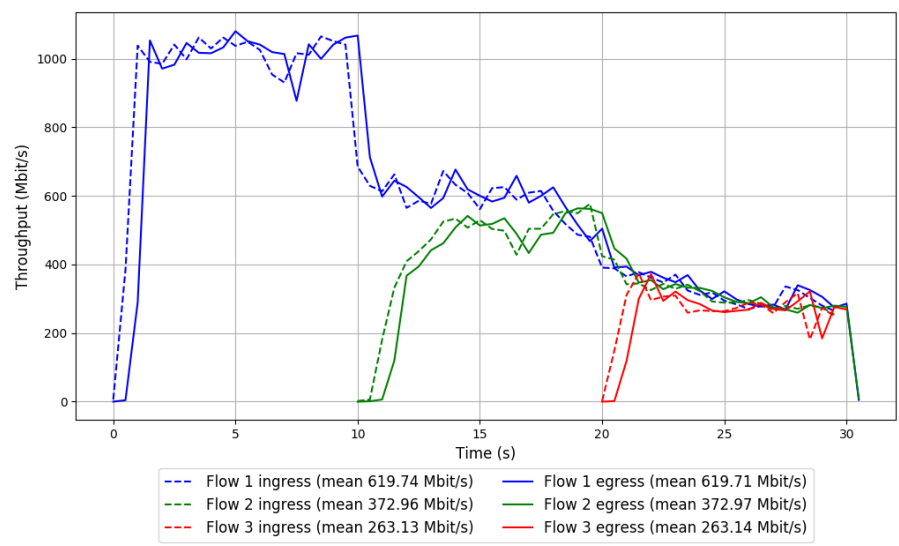
-- Flow 3:

Average throughput: 263.14 Mbit/s

95th percentile per-packet one-way delay: 52.805 ms

Loss rate: 0.00%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-01-03 21:40:12

End at: 2019-01-03 21:40:42

Local clock offset: -0.309 ms

Remote clock offset: 0.508 ms

Below is generated by plot.py at 2019-01-04 00:14:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 931.93 Mbit/s

95th percentile per-packet one-way delay: 54.986 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 590.04 Mbit/s

95th percentile per-packet one-way delay: 61.054 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 384.64 Mbit/s

95th percentile per-packet one-way delay: 53.357 ms

Loss rate: 0.01%

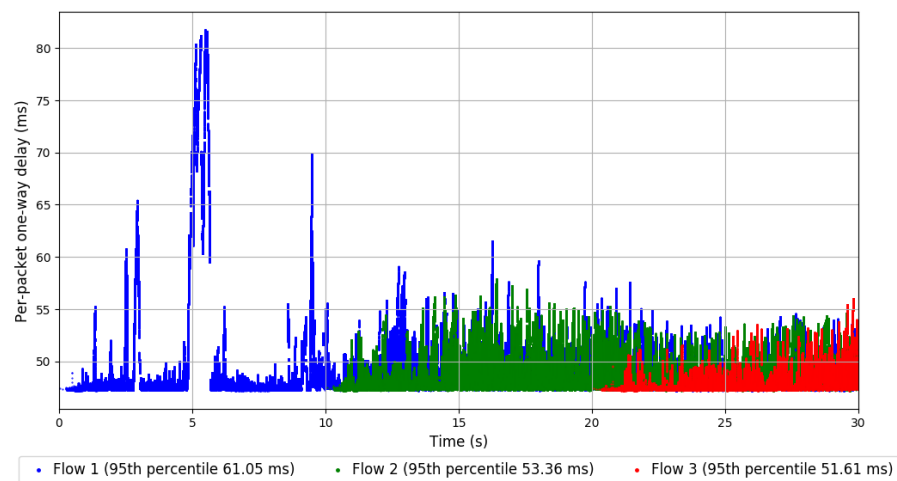
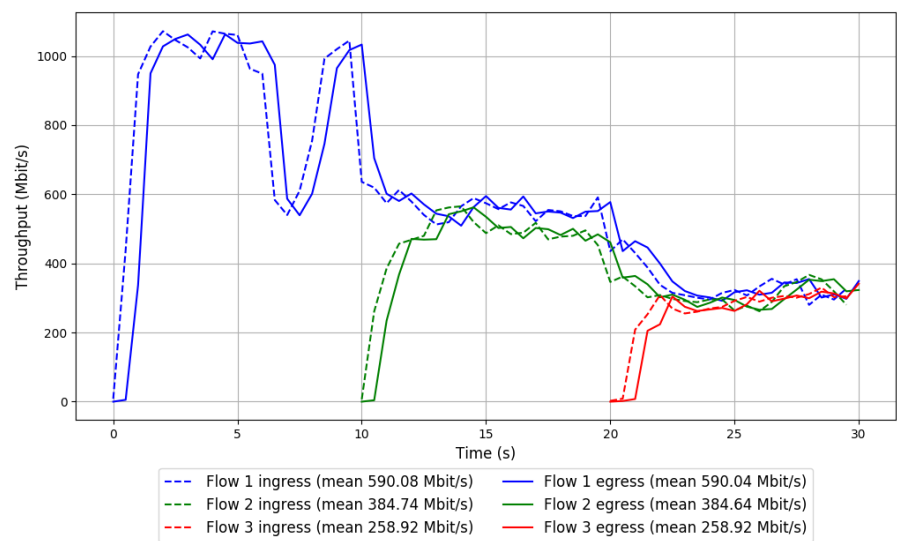
-- Flow 3:

Average throughput: 258.92 Mbit/s

95th percentile per-packet one-way delay: 51.609 ms

Loss rate: 0.00%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-01-03 22:12:16

End at: 2019-01-03 22:12:46

Local clock offset: 0.039 ms

Remote clock offset: -0.13 ms

Below is generated by plot.py at 2019-01-04 00:16:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 957.89 Mbit/s

95th percentile per-packet one-way delay: 54.817 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 599.20 Mbit/s

95th percentile per-packet one-way delay: 57.309 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 390.13 Mbit/s

95th percentile per-packet one-way delay: 54.182 ms

Loss rate: 0.00%

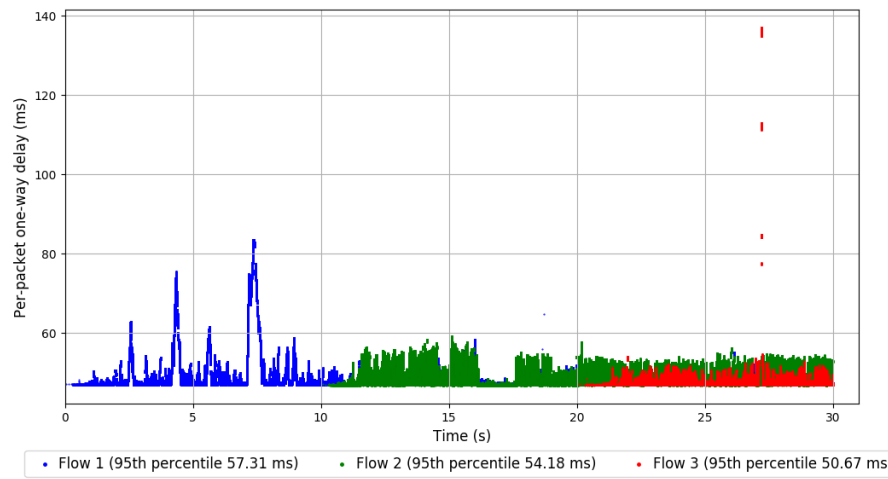
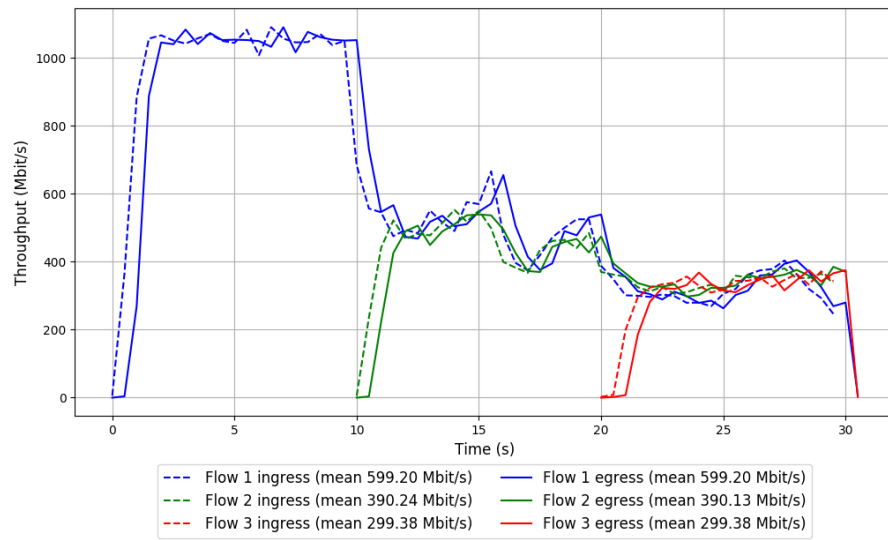
-- Flow 3:

Average throughput: 299.38 Mbit/s

95th percentile per-packet one-way delay: 50.673 ms

Loss rate: 0.00%

Run 4: Report of FillP — Data Link

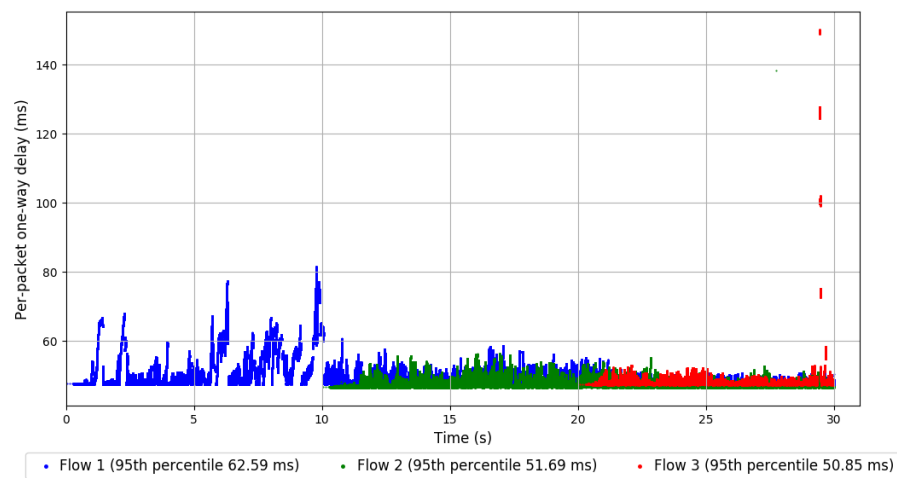
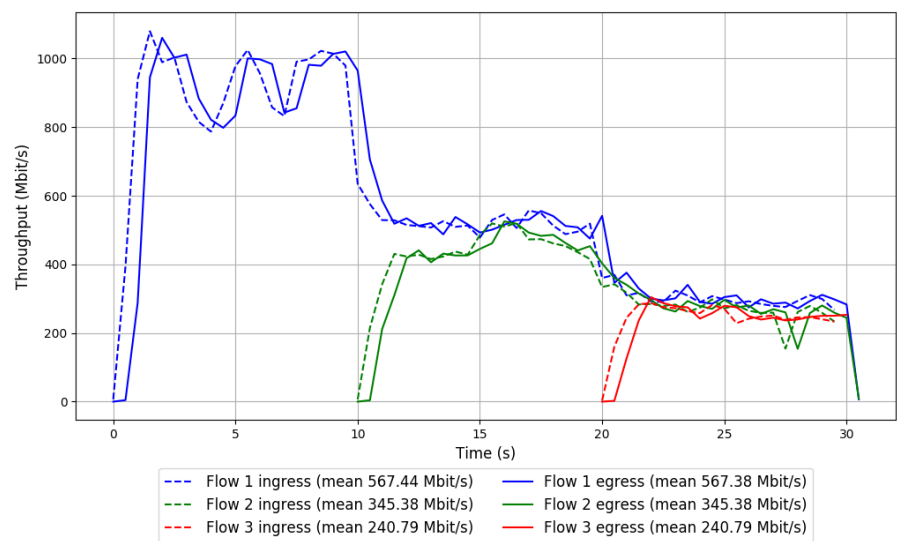


Run 5: Statistics of FillP

Start at: 2019-01-03 22:44:06
End at: 2019-01-03 22:44:36
Local clock offset: -0.09 ms
Remote clock offset: -0.109 ms

Below is generated by plot.py at 2019-01-04 00:16:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 876.97 Mbit/s
95th percentile per-packet one-way delay: 60.957 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 567.38 Mbit/s
95th percentile per-packet one-way delay: 62.590 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 345.38 Mbit/s
95th percentile per-packet one-way delay: 51.691 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 240.79 Mbit/s
95th percentile per-packet one-way delay: 50.848 ms
Loss rate: 0.00%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-01-03 20:44:45

End at: 2019-01-03 20:45:15

Local clock offset: -0.2 ms

Remote clock offset: 0.299 ms

Below is generated by plot.py at 2019-01-04 00:16:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 851.39 Mbit/s

95th percentile per-packet one-way delay: 63.027 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 552.02 Mbit/s

95th percentile per-packet one-way delay: 67.525 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 326.28 Mbit/s

95th percentile per-packet one-way delay: 51.342 ms

Loss rate: 0.00%

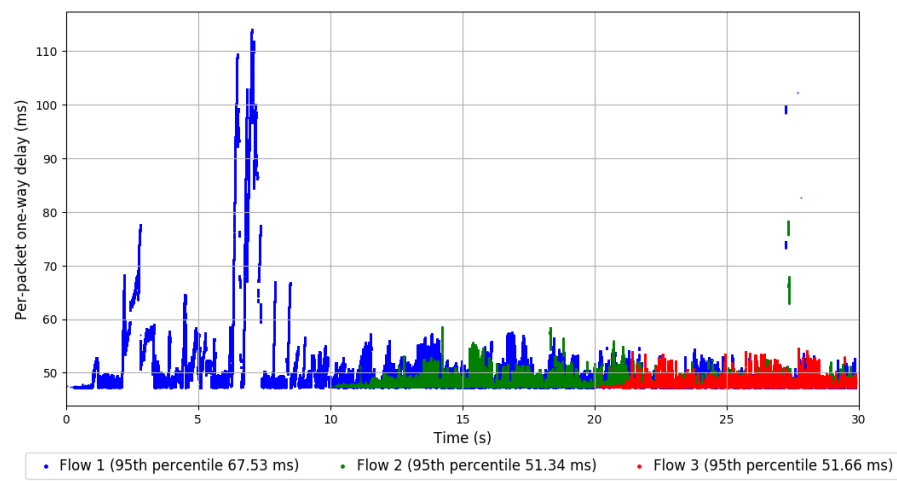
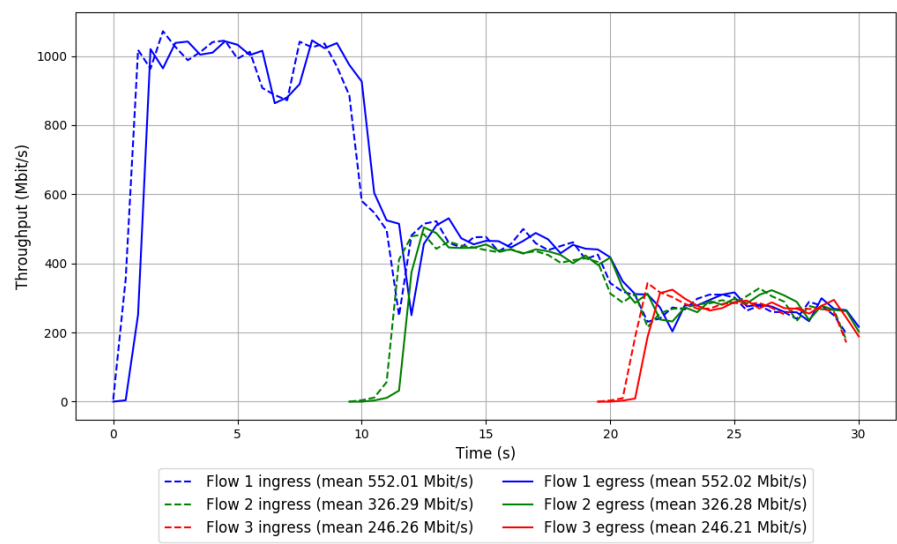
-- Flow 3:

Average throughput: 246.21 Mbit/s

95th percentile per-packet one-way delay: 51.657 ms

Loss rate: 0.01%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-01-03 21:17:06

End at: 2019-01-03 21:17:36

Local clock offset: -0.641 ms

Remote clock offset: 0.427 ms

Below is generated by plot.py at 2019-01-04 00:16:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 843.45 Mbit/s

95th percentile per-packet one-way delay: 83.637 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 542.92 Mbit/s

95th percentile per-packet one-way delay: 91.234 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 331.13 Mbit/s

95th percentile per-packet one-way delay: 51.766 ms

Loss rate: 0.00%

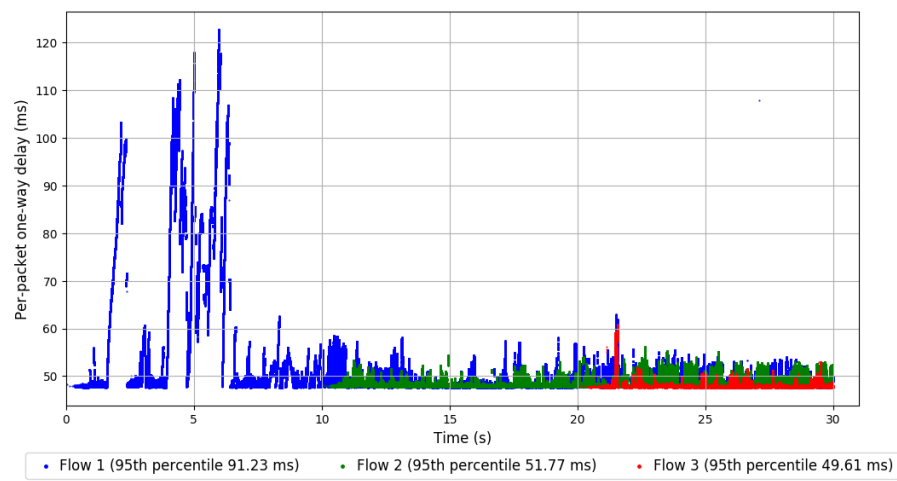
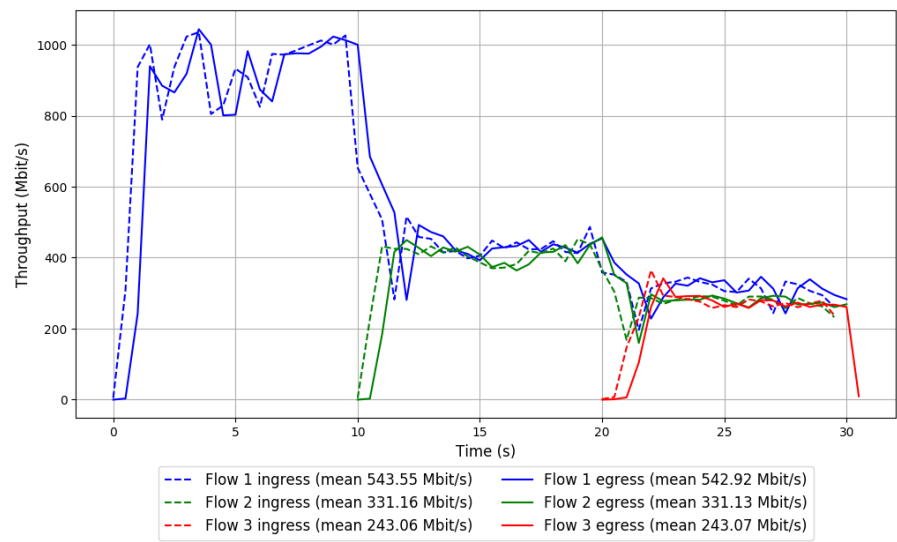
-- Flow 3:

Average throughput: 243.07 Mbit/s

95th percentile per-packet one-way delay: 49.614 ms

Loss rate: 0.00%

Run 2: Report of FillP-Sheep — Data Link

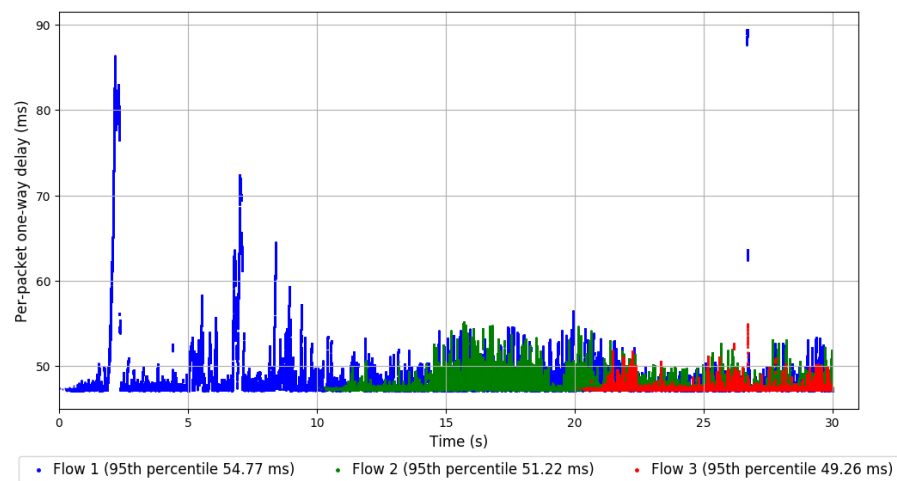
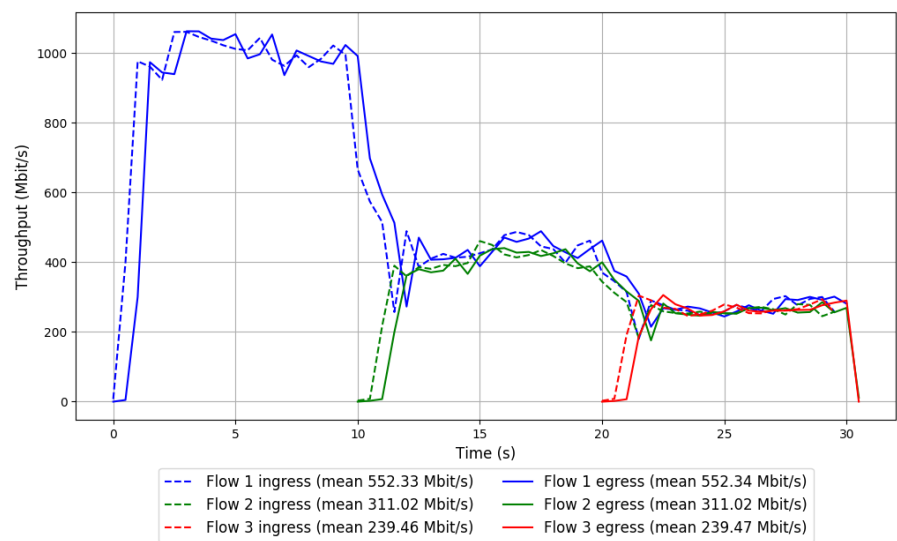


Run 3: Statistics of FillP-Sheep

Start at: 2019-01-03 21:49:20
End at: 2019-01-03 21:49:50
Local clock offset: -0.306 ms
Remote clock offset: 0.571 ms

Below is generated by plot.py at 2019-01-04 00:16:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 838.61 Mbit/s
95th percentile per-packet one-way delay: 52.938 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 552.34 Mbit/s
95th percentile per-packet one-way delay: 54.767 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 311.02 Mbit/s
95th percentile per-packet one-way delay: 51.222 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 239.47 Mbit/s
95th percentile per-packet one-way delay: 49.260 ms
Loss rate: 0.00%

Run 3: Report of FillP-Sheep — Data Link

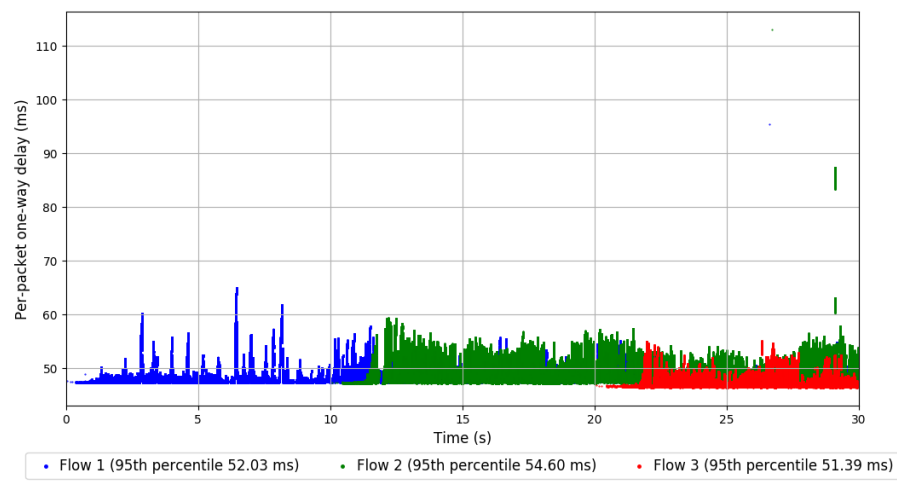
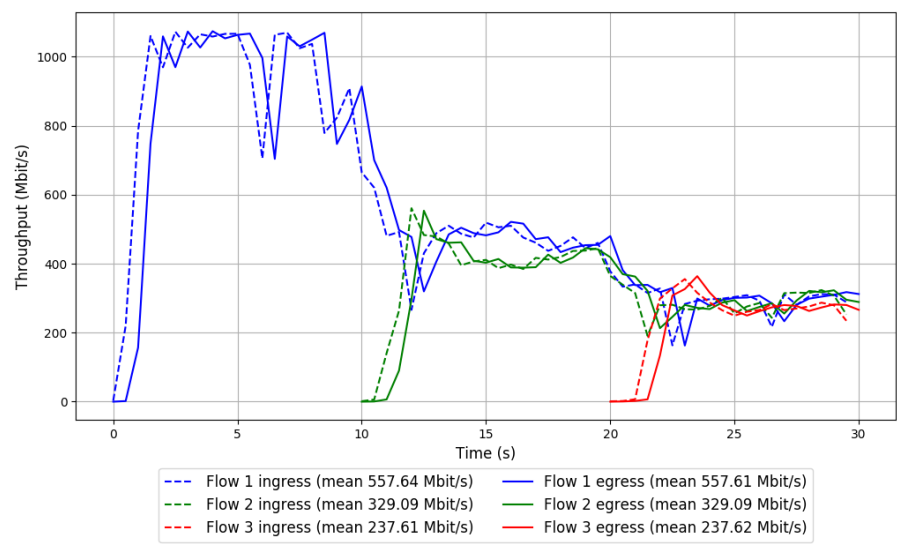


Run 4: Statistics of FillP-Sheep

Start at: 2019-01-03 22:20:59
End at: 2019-01-03 22:21:29
Local clock offset: -0.345 ms
Remote clock offset: -0.203 ms

Below is generated by plot.py at 2019-01-04 00:17:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 855.27 Mbit/s
95th percentile per-packet one-way delay: 53.444 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 557.61 Mbit/s
95th percentile per-packet one-way delay: 52.030 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 329.09 Mbit/s
95th percentile per-packet one-way delay: 54.602 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 237.62 Mbit/s
95th percentile per-packet one-way delay: 51.394 ms
Loss rate: 0.00%

Run 4: Report of FillP-Sheep — Data Link

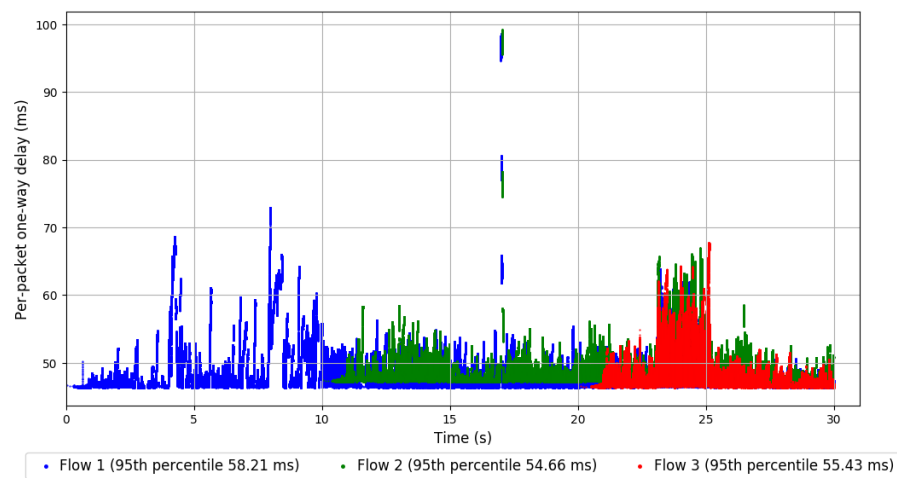
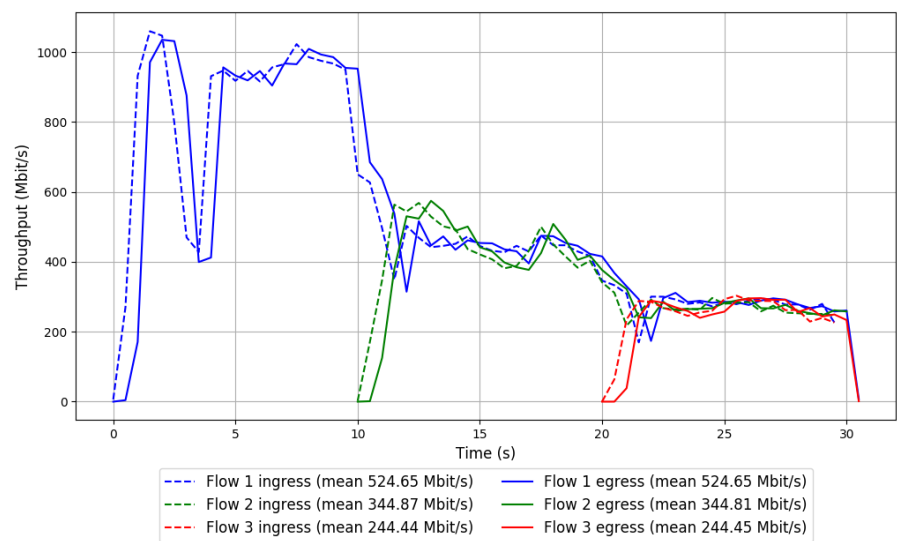


Run 5: Statistics of FillP-Sheep

Start at: 2019-01-03 22:53:10
End at: 2019-01-03 22:53:40
Local clock offset: 0.001 ms
Remote clock offset: -0.119 ms

Below is generated by plot.py at 2019-01-04 00:32:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 834.87 Mbit/s
95th percentile per-packet one-way delay: 56.656 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 524.65 Mbit/s
95th percentile per-packet one-way delay: 58.209 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 344.81 Mbit/s
95th percentile per-packet one-way delay: 54.664 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 244.45 Mbit/s
95th percentile per-packet one-way delay: 55.434 ms
Loss rate: 0.00%

Run 5: Report of FillP-Sheep — Data Link

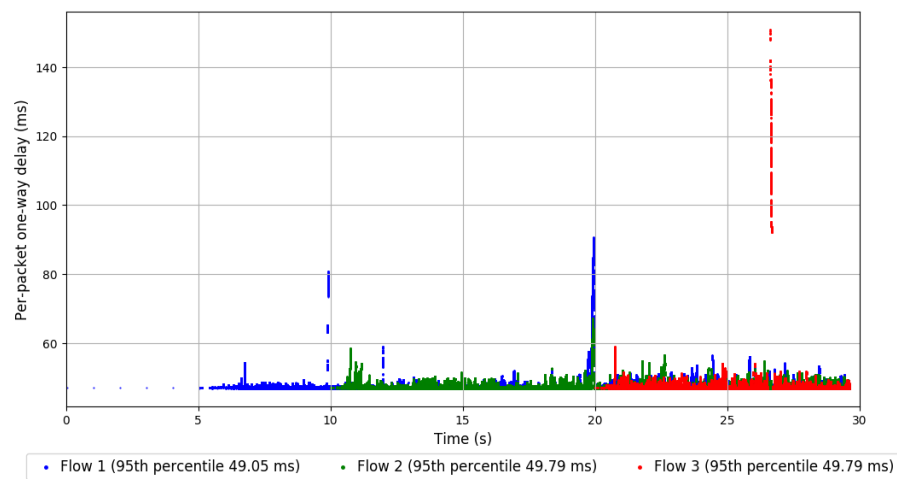
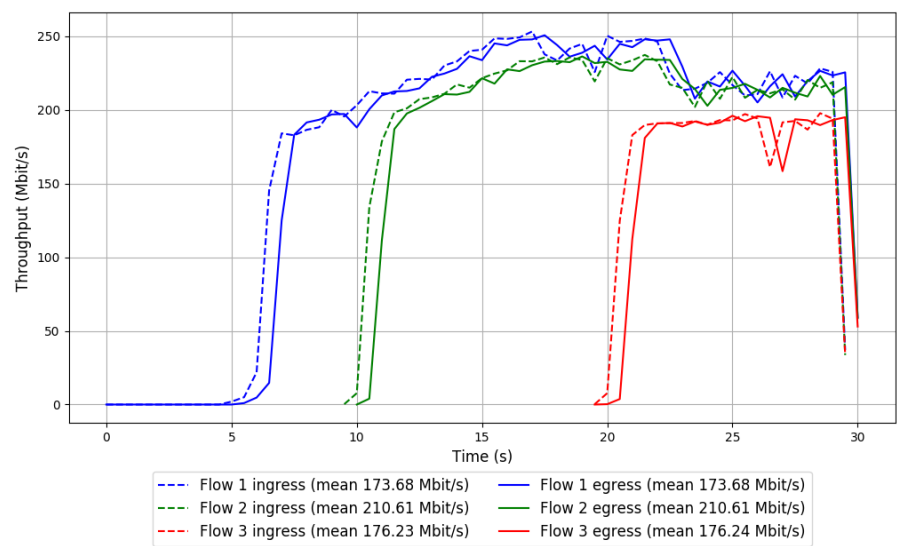


```
Run 1: Statistics of Indigo

Start at: 2019-01-03 20:41:25
End at: 2019-01-03 20:41:55
Local clock offset: 0.143 ms
Remote clock offset: 0.307 ms

# Below is generated by plot.py at 2019-01-04 00:32:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 370.80 Mbit/s
95th percentile per-packet one-way delay: 49.507 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 173.68 Mbit/s
95th percentile per-packet one-way delay: 49.047 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 210.61 Mbit/s
95th percentile per-packet one-way delay: 49.791 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 176.24 Mbit/s
95th percentile per-packet one-way delay: 49.790 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-01-03 21:13:42

End at: 2019-01-03 21:14:12

Local clock offset: -0.218 ms

Remote clock offset: 0.411 ms

Below is generated by plot.py at 2019-01-04 00:32:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 417.16 Mbit/s

95th percentile per-packet one-way delay: 49.324 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 218.29 Mbit/s

95th percentile per-packet one-way delay: 49.823 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 209.91 Mbit/s

95th percentile per-packet one-way delay: 48.581 ms

Loss rate: 0.00%

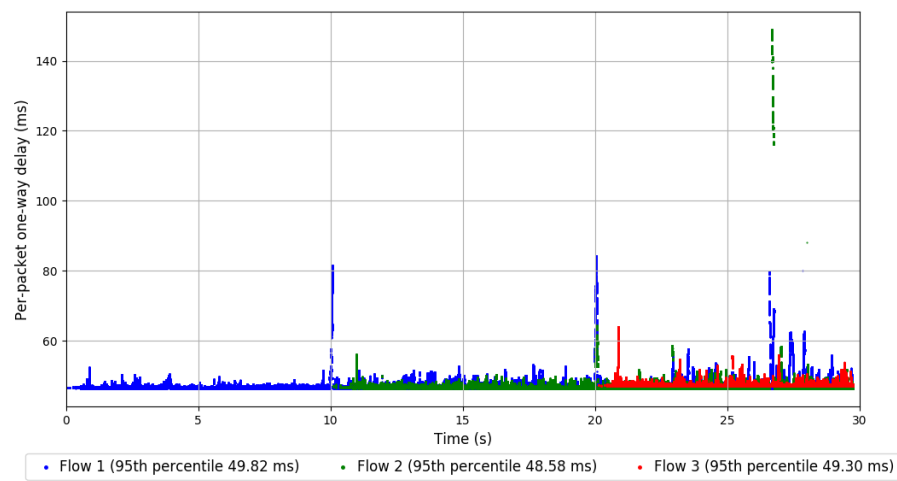
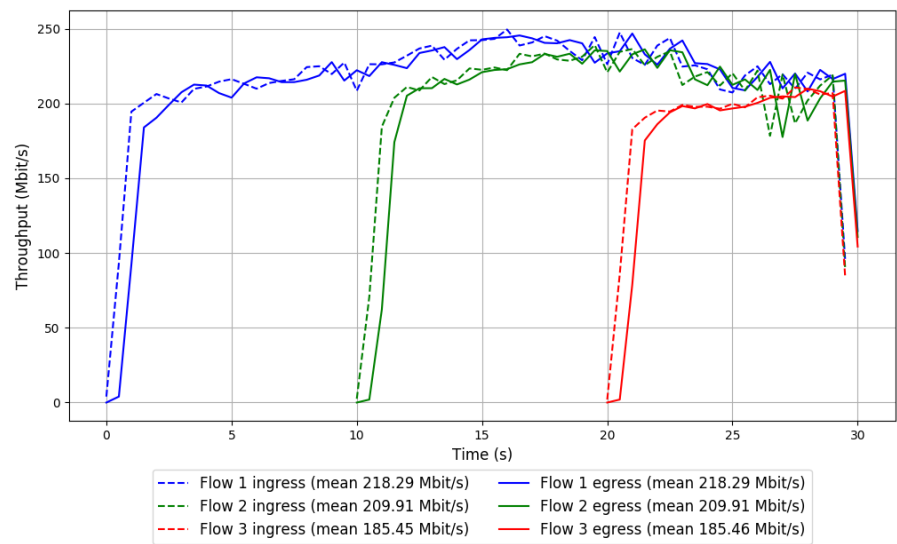
-- Flow 3:

Average throughput: 185.46 Mbit/s

95th percentile per-packet one-way delay: 49.297 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

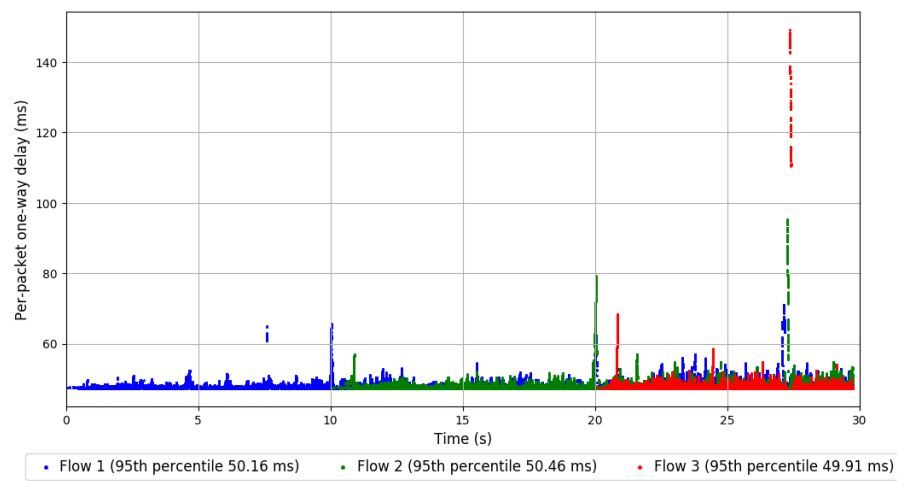
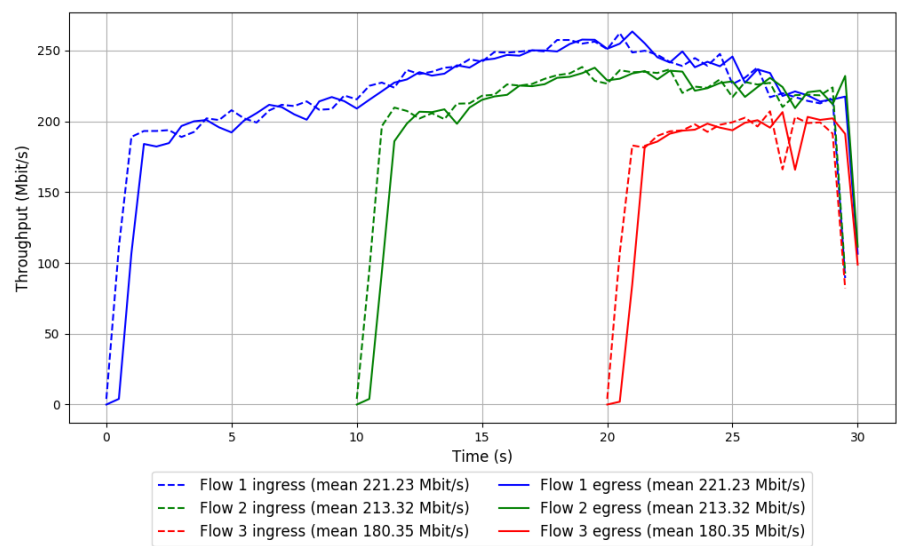


Run 3: Statistics of Indigo

Start at: 2019-01-03 21:45:53
End at: 2019-01-03 21:46:23
Local clock offset: -0.327 ms
Remote clock offset: 0.605 ms

Below is generated by plot.py at 2019-01-04 00:32:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 421.41 Mbit/s
95th percentile per-packet one-way delay: 50.226 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 221.23 Mbit/s
95th percentile per-packet one-way delay: 50.161 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 213.32 Mbit/s
95th percentile per-packet one-way delay: 50.460 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 180.35 Mbit/s
95th percentile per-packet one-way delay: 49.909 ms
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link

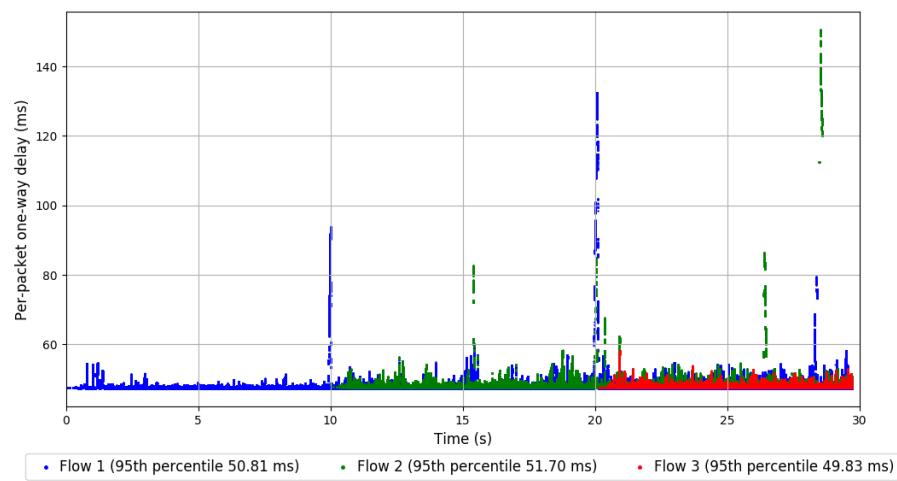
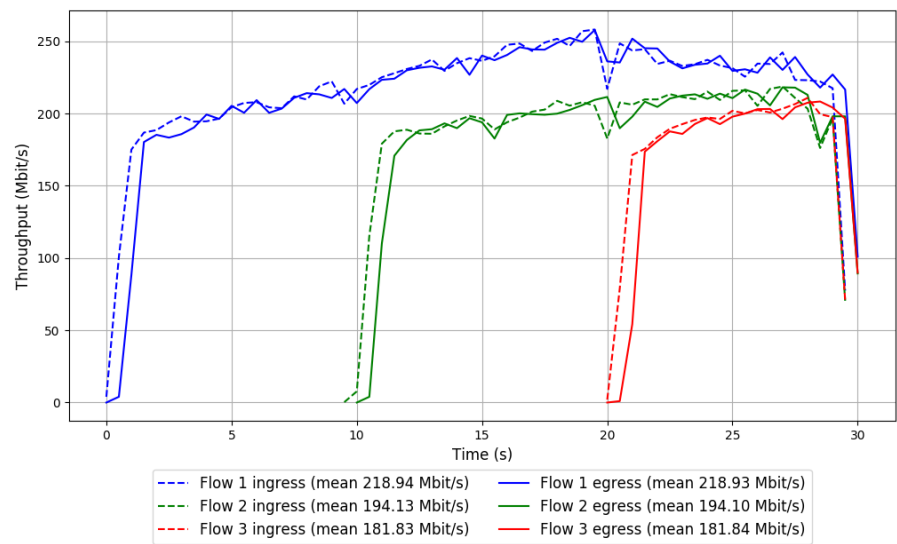


Run 4: Statistics of Indigo

Start at: 2019-01-03 22:17:37
End at: 2019-01-03 22:18:07
Local clock offset: -0.312 ms
Remote clock offset: -0.177 ms

Below is generated by plot.py at 2019-01-04 00:32:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 406.34 Mbit/s
95th percentile per-packet one-way delay: 50.900 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 218.93 Mbit/s
95th percentile per-packet one-way delay: 50.807 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 194.10 Mbit/s
95th percentile per-packet one-way delay: 51.701 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 181.84 Mbit/s
95th percentile per-packet one-way delay: 49.833 ms
Loss rate: 0.00%

Run 4: Report of Indigo — Data Link

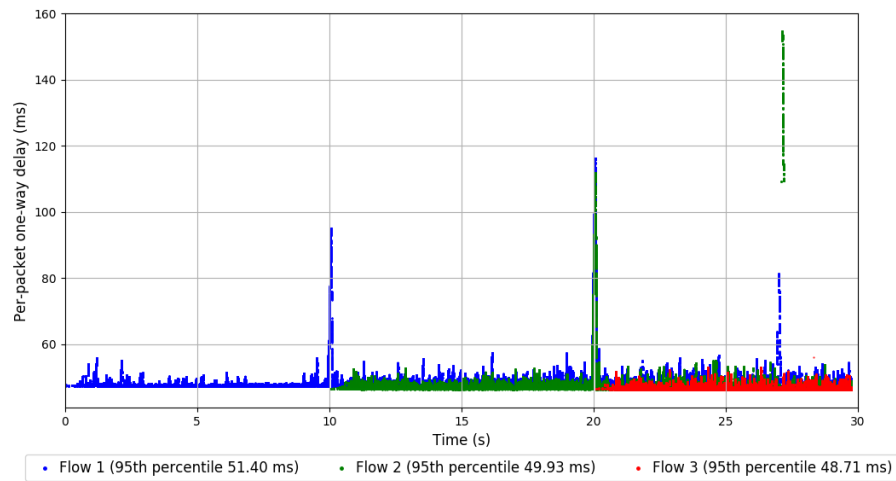
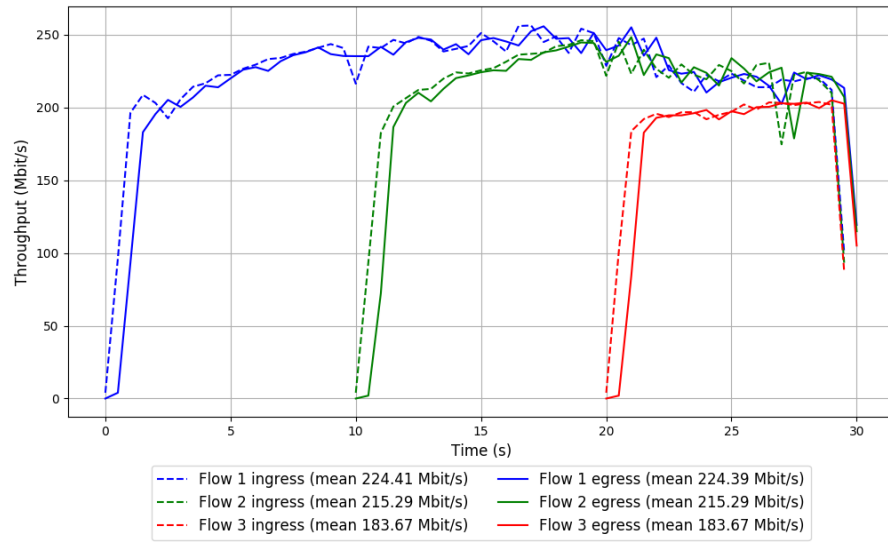


Run 5: Statistics of Indigo

Start at: 2019-01-03 22:49:42
End at: 2019-01-03 22:50:12
Local clock offset: -0.043 ms
Remote clock offset: -0.158 ms

Below is generated by plot.py at 2019-01-04 00:32:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 426.69 Mbit/s
95th percentile per-packet one-way delay: 50.723 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 224.39 Mbit/s
95th percentile per-packet one-way delay: 51.401 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 215.29 Mbit/s
95th percentile per-packet one-way delay: 49.930 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 183.67 Mbit/s
95th percentile per-packet one-way delay: 48.708 ms
Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-01-03 20:49:25

End at: 2019-01-03 20:49:55

Local clock offset: -0.216 ms

Remote clock offset: 0.335 ms

Below is generated by plot.py at 2019-01-04 00:34:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 1007.13 Mbit/s

95th percentile per-packet one-way delay: 76.034 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 538.74 Mbit/s

95th percentile per-packet one-way delay: 77.605 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 493.00 Mbit/s

95th percentile per-packet one-way delay: 75.730 ms

Loss rate: 0.01%

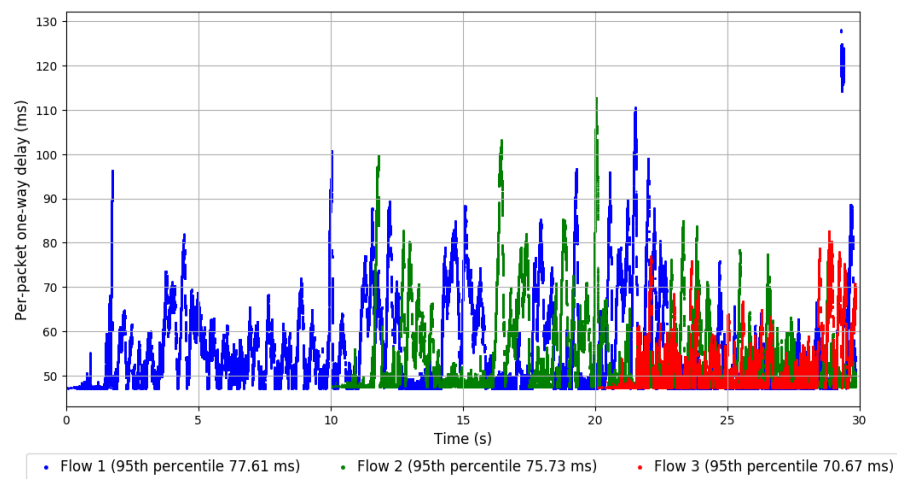
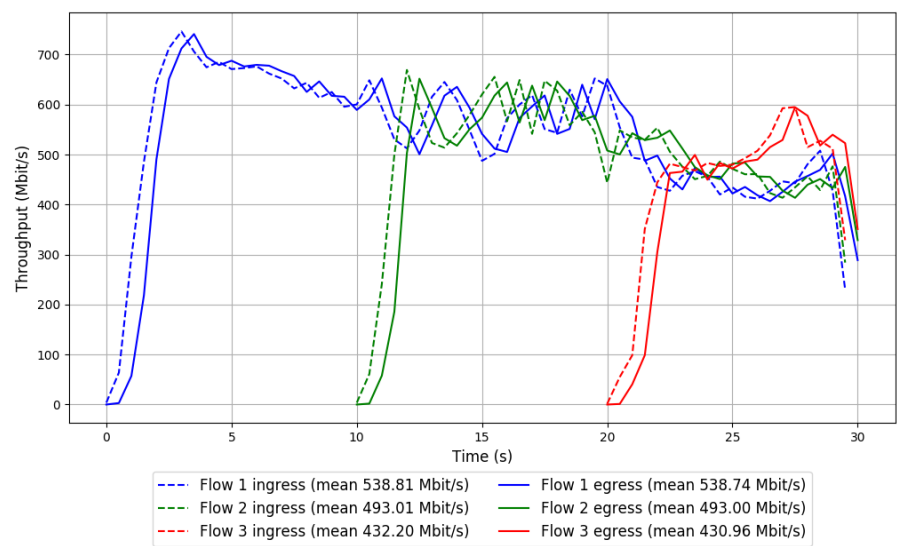
-- Flow 3:

Average throughput: 430.96 Mbit/s

95th percentile per-packet one-way delay: 70.668 ms

Loss rate: 0.28%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-01-03 21:21:45

End at: 2019-01-03 21:22:15

Local clock offset: -0.292 ms

Remote clock offset: 0.482 ms

Below is generated by plot.py at 2019-01-04 00:34:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 938.16 Mbit/s

95th percentile per-packet one-way delay: 73.910 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 524.09 Mbit/s

95th percentile per-packet one-way delay: 73.575 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 432.71 Mbit/s

95th percentile per-packet one-way delay: 79.681 ms

Loss rate: 0.00%

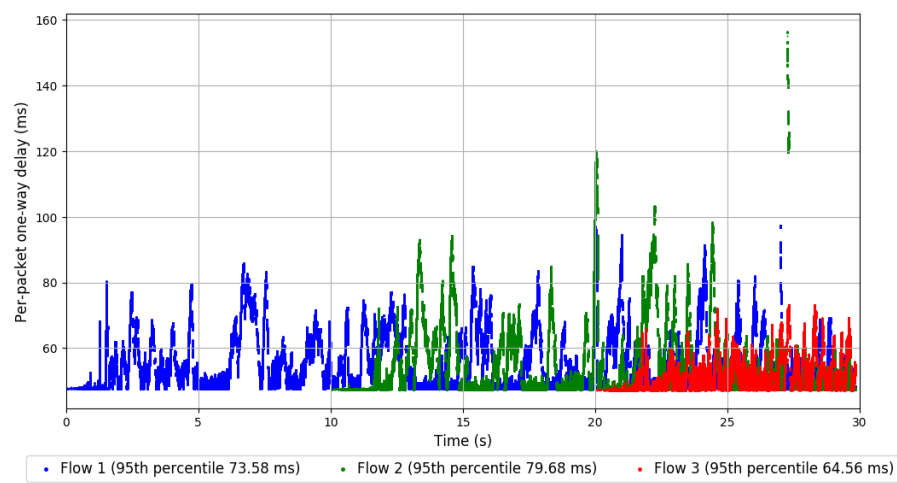
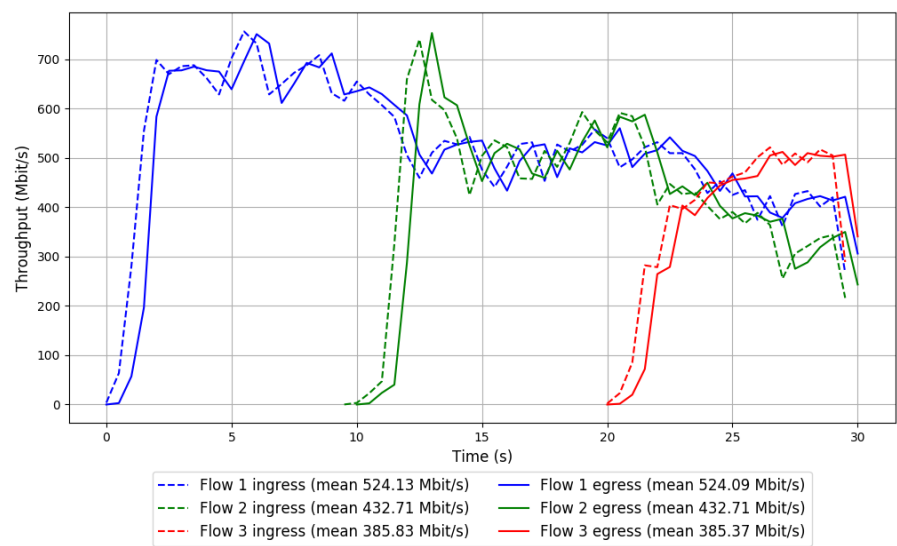
-- Flow 3:

Average throughput: 385.37 Mbit/s

95th percentile per-packet one-way delay: 64.558 ms

Loss rate: 0.11%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-01-03 21:53:56

End at: 2019-01-03 21:54:26

Local clock offset: -0.318 ms

Remote clock offset: 0.546 ms

Below is generated by plot.py at 2019-01-04 00:44:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 962.15 Mbit/s

95th percentile per-packet one-way delay: 67.425 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 521.83 Mbit/s

95th percentile per-packet one-way delay: 67.970 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 466.97 Mbit/s

95th percentile per-packet one-way delay: 68.359 ms

Loss rate: 0.10%

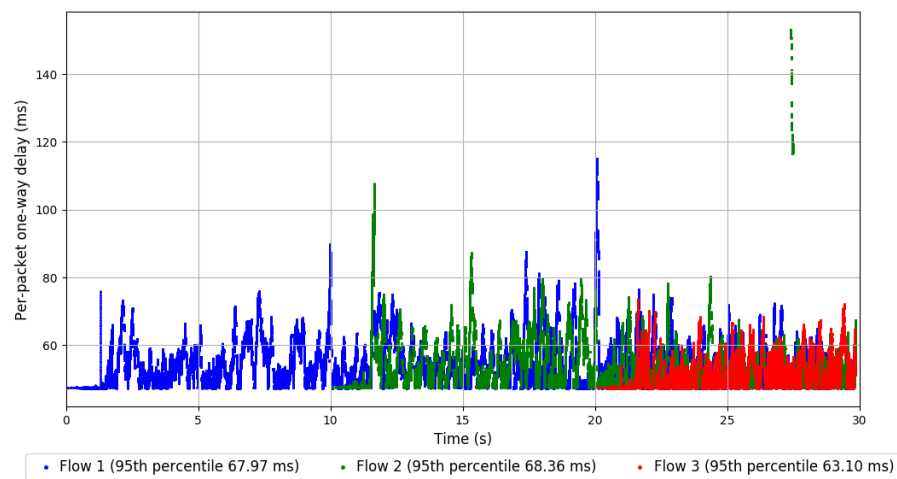
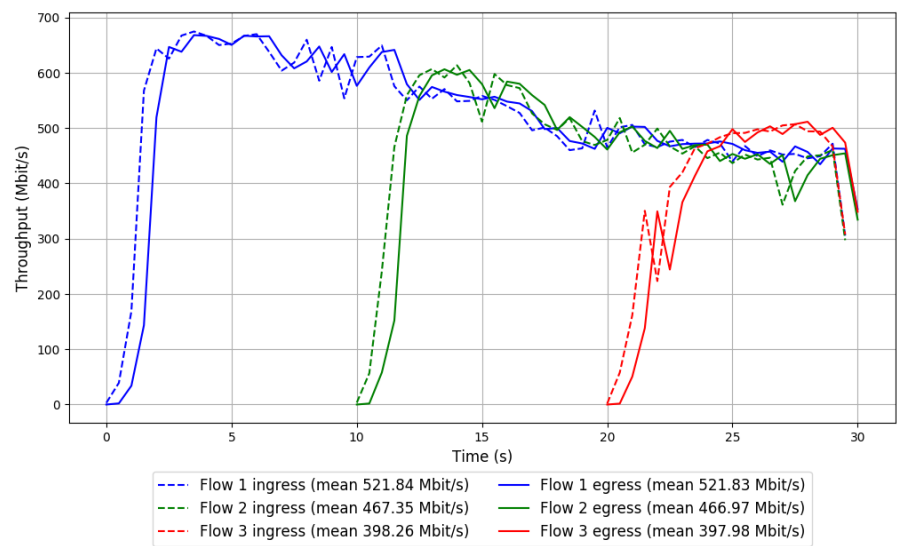
-- Flow 3:

Average throughput: 397.98 Mbit/s

95th percentile per-packet one-way delay: 63.098 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesD — Data Link

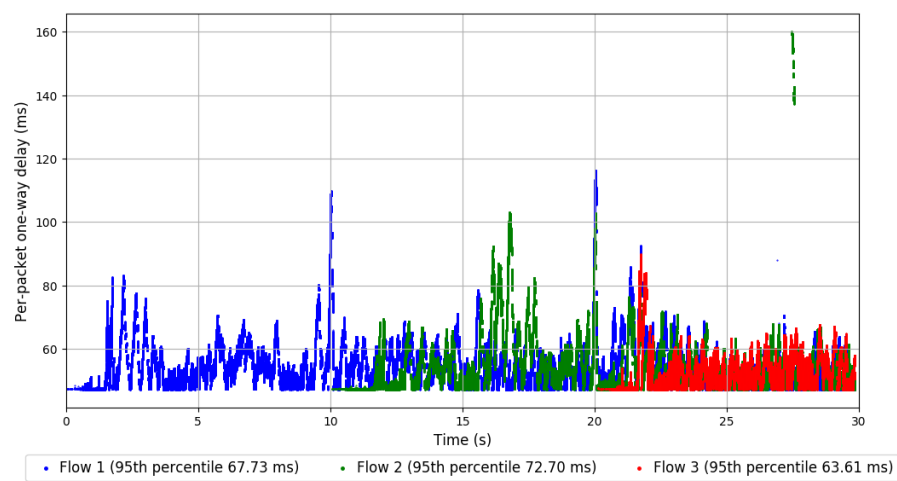
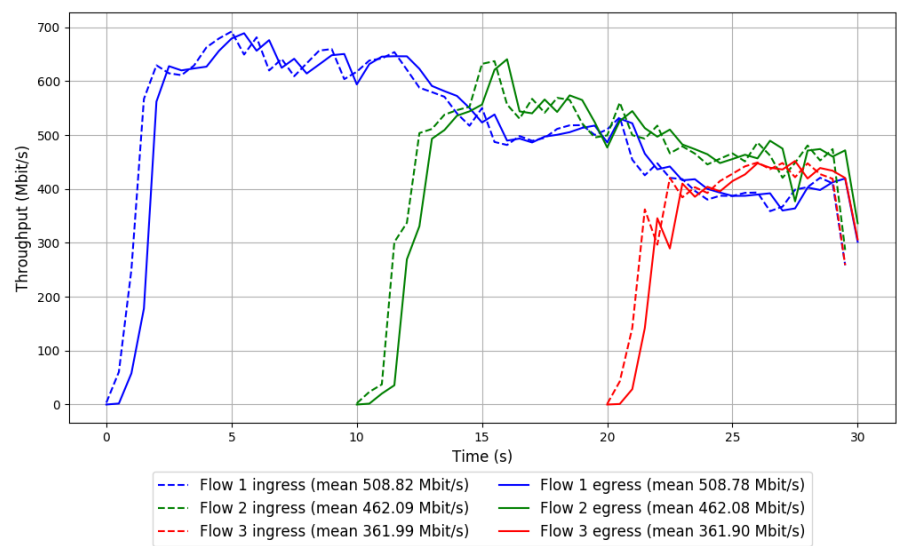


Run 4: Statistics of Indigo-MusesD

Start at: 2019-01-03 22:25:38
End at: 2019-01-03 22:26:08
Local clock offset: -0.324 ms
Remote clock offset: -0.239 ms

Below is generated by plot.py at 2019-01-04 00:45:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 933.40 Mbit/s
95th percentile per-packet one-way delay: 69.071 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 508.78 Mbit/s
95th percentile per-packet one-way delay: 67.726 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 462.08 Mbit/s
95th percentile per-packet one-way delay: 72.700 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 361.90 Mbit/s
95th percentile per-packet one-way delay: 63.606 ms
Loss rate: 0.02%

Run 4: Report of Indigo-MusesD — Data Link

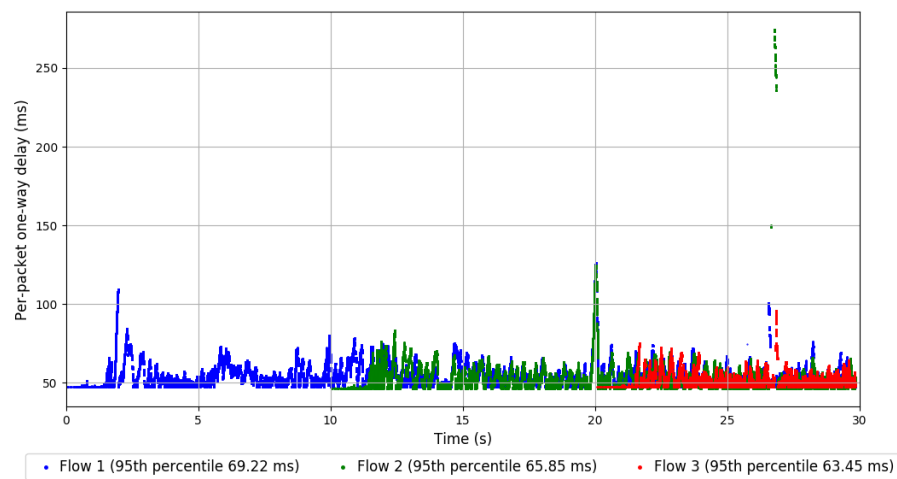
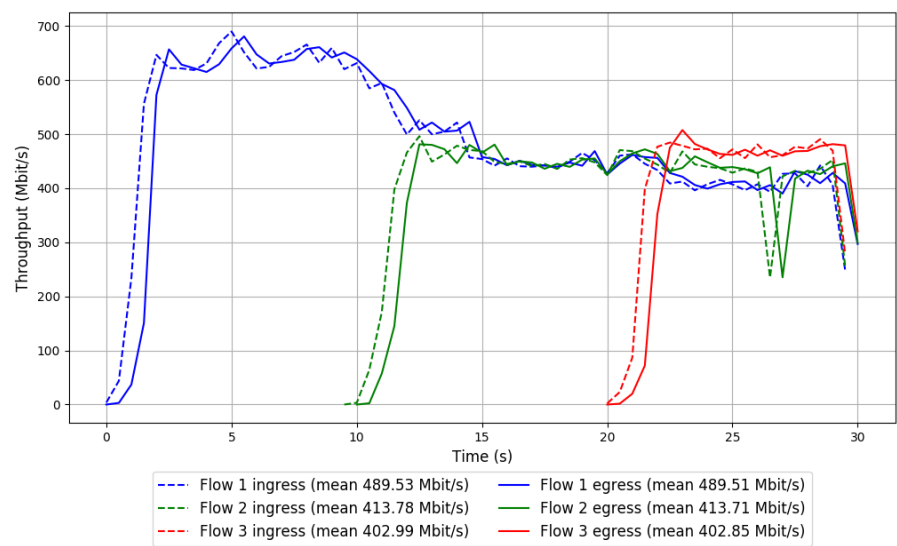


Run 5: Statistics of Indigo-MusesD

Start at: 2019-01-03 22:57:49
End at: 2019-01-03 22:58:19
Local clock offset: -0.011 ms
Remote clock offset: -0.109 ms

Below is generated by plot.py at 2019-01-04 00:45:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 896.36 Mbit/s
95th percentile per-packet one-way delay: 67.445 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 489.51 Mbit/s
95th percentile per-packet one-way delay: 69.222 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 413.71 Mbit/s
95th percentile per-packet one-way delay: 65.851 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 402.85 Mbit/s
95th percentile per-packet one-way delay: 63.450 ms
Loss rate: 0.03%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-01-03 20:53:20

End at: 2019-01-03 20:53:50

Local clock offset: -0.23 ms

Remote clock offset: 0.375 ms

Below is generated by plot.py at 2019-01-04 00:45:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 757.46 Mbit/s

95th percentile per-packet one-way delay: 66.214 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 417.18 Mbit/s

95th percentile per-packet one-way delay: 66.566 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 352.90 Mbit/s

95th percentile per-packet one-way delay: 67.827 ms

Loss rate: 0.00%

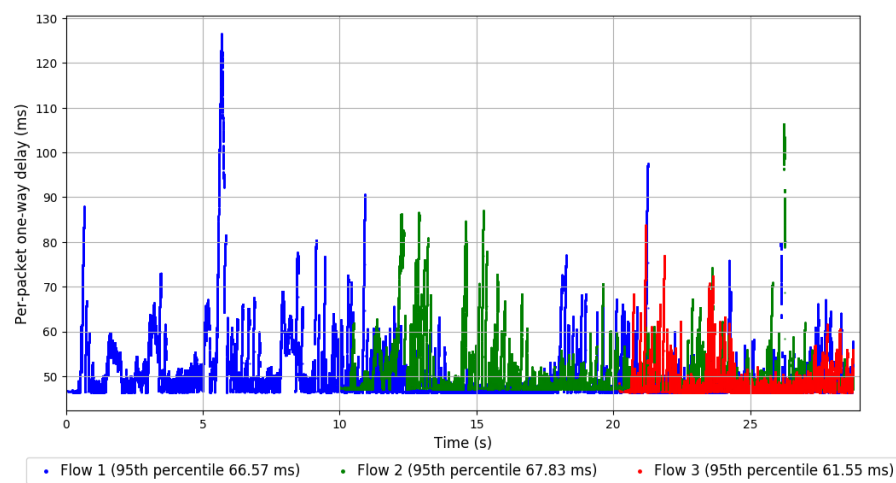
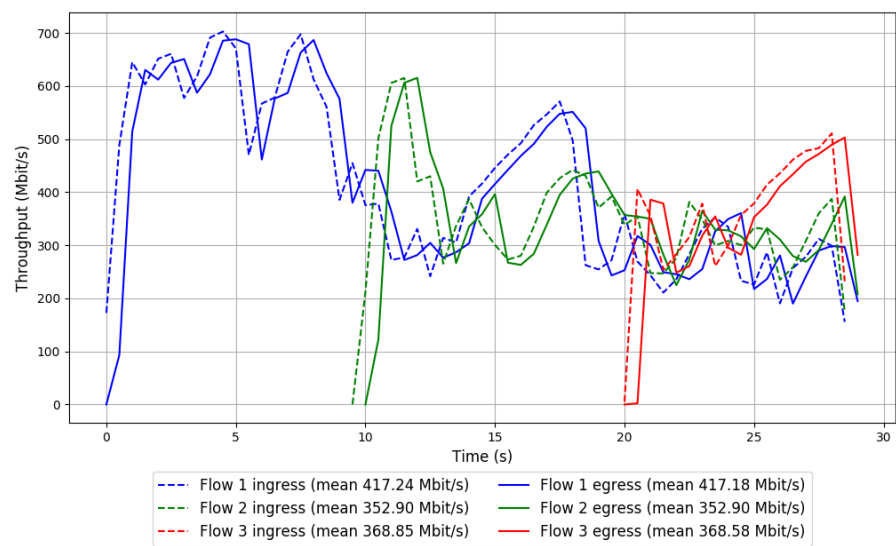
-- Flow 3:

Average throughput: 368.58 Mbit/s

95th percentile per-packet one-way delay: 61.554 ms

Loss rate: 0.08%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-01-03 21:25:36

End at: 2019-01-03 21:26:06

Local clock offset: -0.285 ms

Remote clock offset: 0.507 ms

Below is generated by plot.py at 2019-01-04 00:45:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 737.43 Mbit/s

95th percentile per-packet one-way delay: 138.954 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 388.67 Mbit/s

95th percentile per-packet one-way delay: 67.085 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 307.34 Mbit/s

95th percentile per-packet one-way delay: 63.914 ms

Loss rate: 0.00%

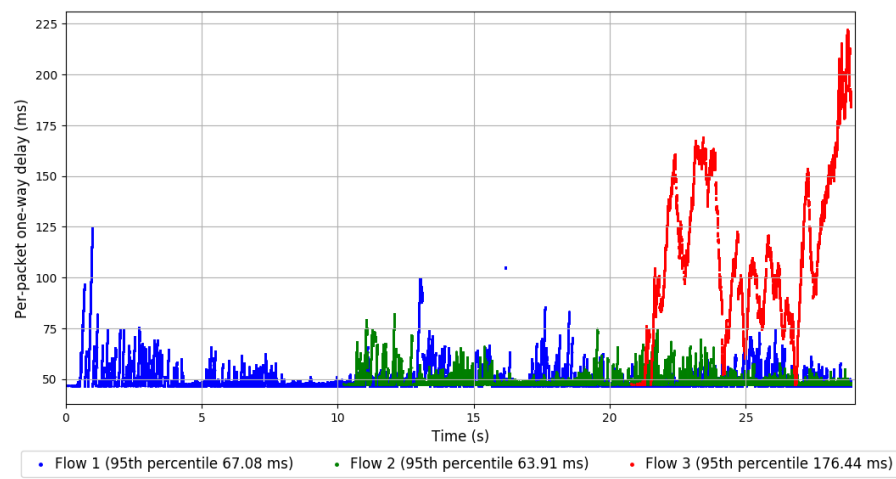
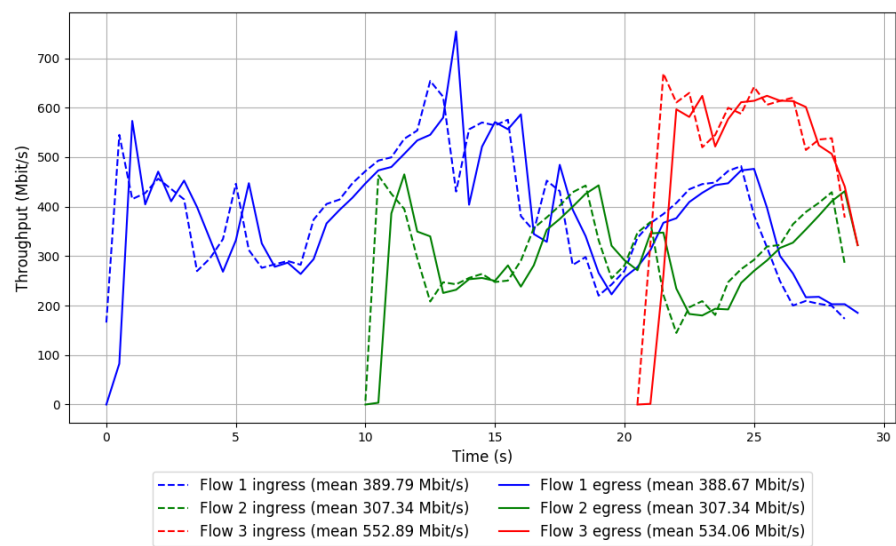
-- Flow 3:

Average throughput: 534.06 Mbit/s

95th percentile per-packet one-way delay: 176.442 ms

Loss rate: 3.40%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-01-03 21:57:45

End at: 2019-01-03 21:58:15

Local clock offset: -0.283 ms

Remote clock offset: 0.3 ms

Below is generated by plot.py at 2019-01-04 00:47:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 837.81 Mbit/s

95th percentile per-packet one-way delay: 148.488 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 535.93 Mbit/s

95th percentile per-packet one-way delay: 161.658 ms

Loss rate: 1.97%

-- Flow 2:

Average throughput: 334.13 Mbit/s

95th percentile per-packet one-way delay: 66.826 ms

Loss rate: 0.11%

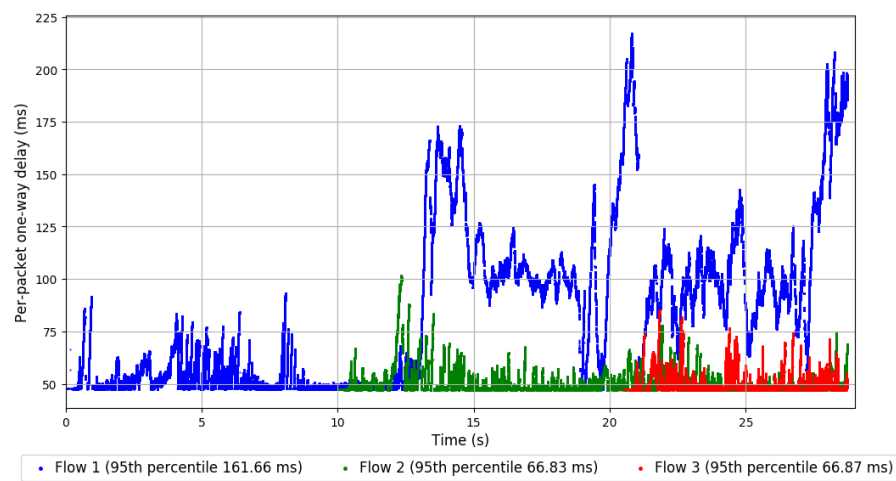
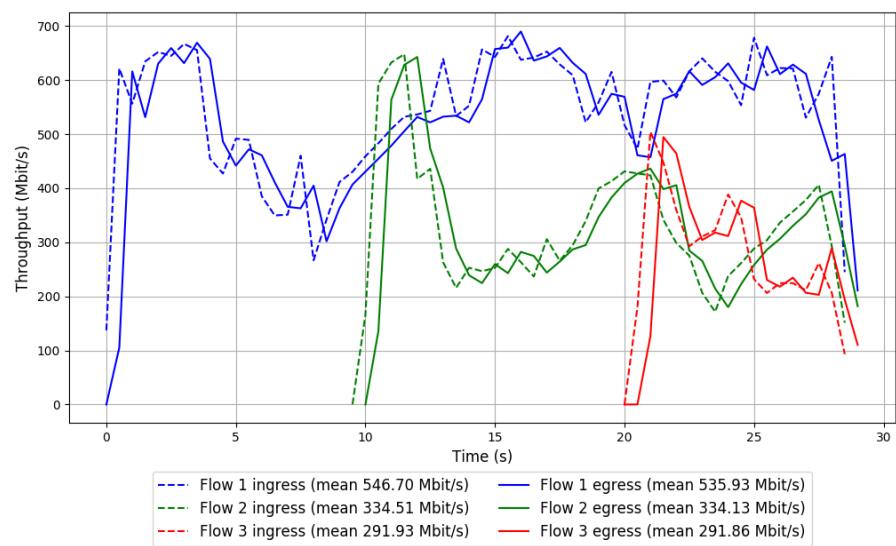
-- Flow 3:

Average throughput: 291.86 Mbit/s

95th percentile per-packet one-way delay: 66.866 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesT — Data Link

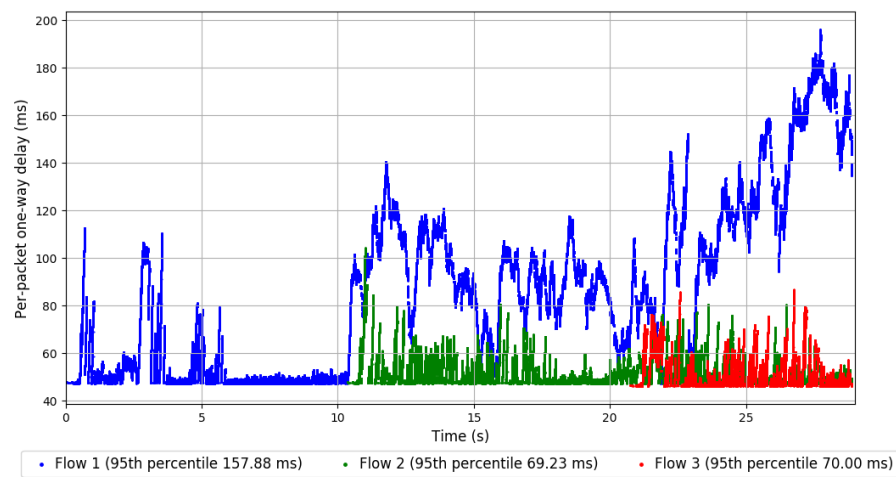
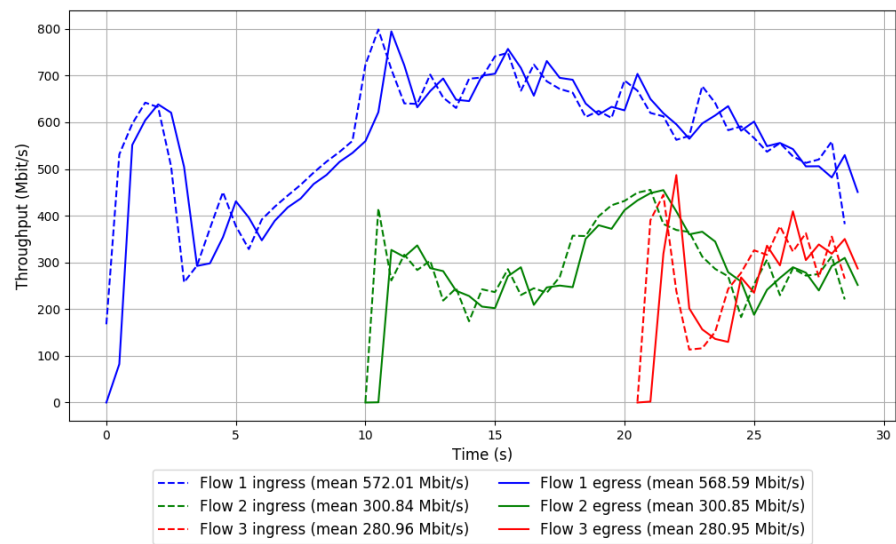


Run 4: Statistics of Indigo-MusesT

Start at: 2019-01-03 22:29:28
End at: 2019-01-03 22:29:58
Local clock offset: 0.06 ms
Remote clock offset: -0.185 ms

Below is generated by plot.py at 2019-01-04 00:50:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 841.24 Mbit/s
95th percentile per-packet one-way delay: 148.861 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 568.59 Mbit/s
95th percentile per-packet one-way delay: 157.883 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 300.85 Mbit/s
95th percentile per-packet one-way delay: 69.226 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 280.95 Mbit/s
95th percentile per-packet one-way delay: 70.001 ms
Loss rate: 0.00%

Run 4: Report of Indigo-MusesT — Data Link

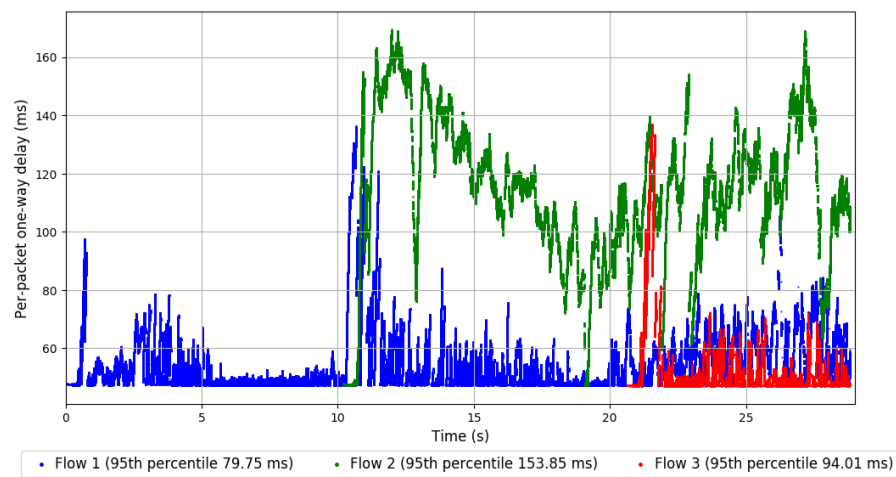
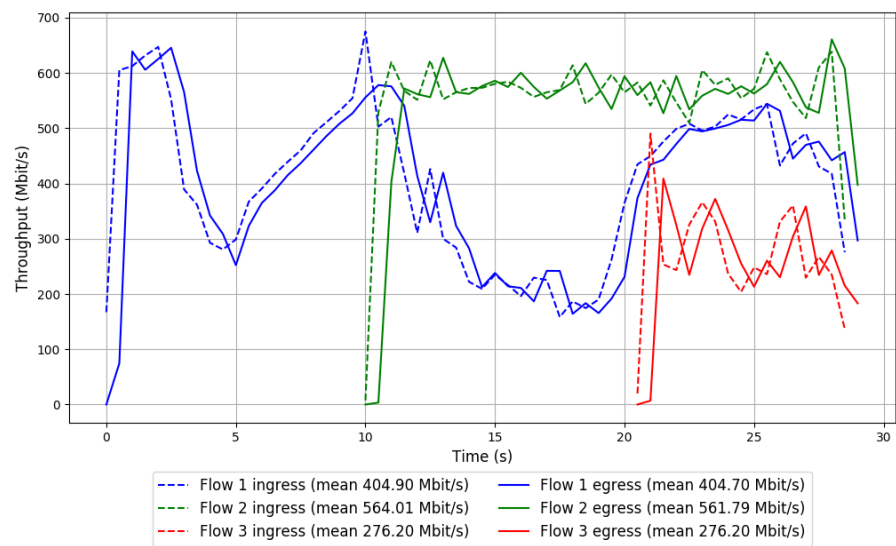


Run 5: Statistics of Indigo-MusesT

Start at: 2019-01-03 23:01:37
End at: 2019-01-03 23:02:07
Local clock offset: -0.056 ms
Remote clock offset: -0.179 ms

Below is generated by plot.py at 2019-01-04 00:50:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 846.60 Mbit/s
95th percentile per-packet one-way delay: 145.199 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 404.70 Mbit/s
95th percentile per-packet one-way delay: 79.750 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 561.79 Mbit/s
95th percentile per-packet one-way delay: 153.851 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 276.20 Mbit/s
95th percentile per-packet one-way delay: 94.006 ms
Loss rate: 0.00%

Run 5: Report of Indigo-MusesT — Data Link

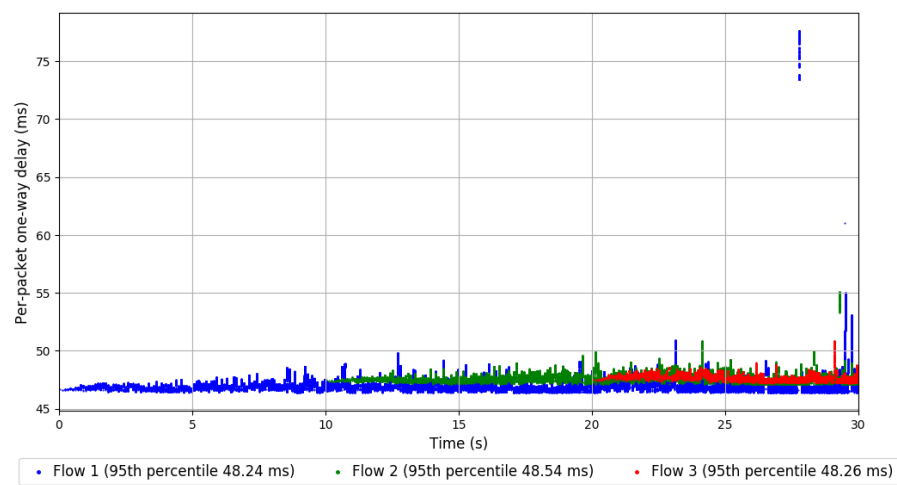
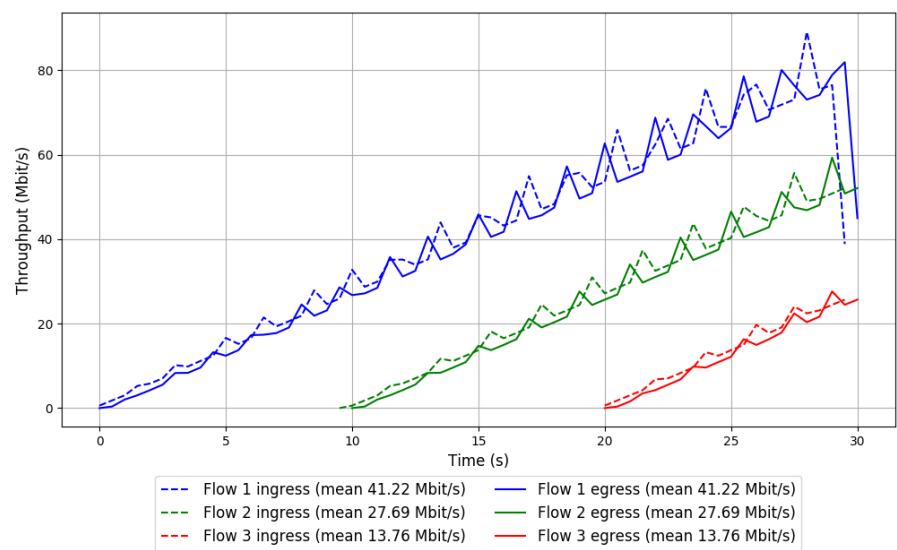



```
Run 1: Statistics of LEDBAT

Start at: 2019-01-03 20:56:19
End at: 2019-01-03 20:56:49
Local clock offset: -0.226 ms
Remote clock offset: 0.361 ms

# Below is generated by plot.py at 2019-01-04 00:50:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.21 Mbit/s
95th percentile per-packet one-way delay: 48.373 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.22 Mbit/s
95th percentile per-packet one-way delay: 48.242 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 27.69 Mbit/s
95th percentile per-packet one-way delay: 48.544 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 13.76 Mbit/s
95th percentile per-packet one-way delay: 48.259 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-01-03 21:28:35

End at: 2019-01-03 21:29:05

Local clock offset: -0.244 ms

Remote clock offset: 0.477 ms

Below is generated by plot.py at 2019-01-04 00:50:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.15 Mbit/s

95th percentile per-packet one-way delay: 48.486 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 42.80 Mbit/s

95th percentile per-packet one-way delay: 48.113 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 28.15 Mbit/s

95th percentile per-packet one-way delay: 48.951 ms

Loss rate: 0.00%

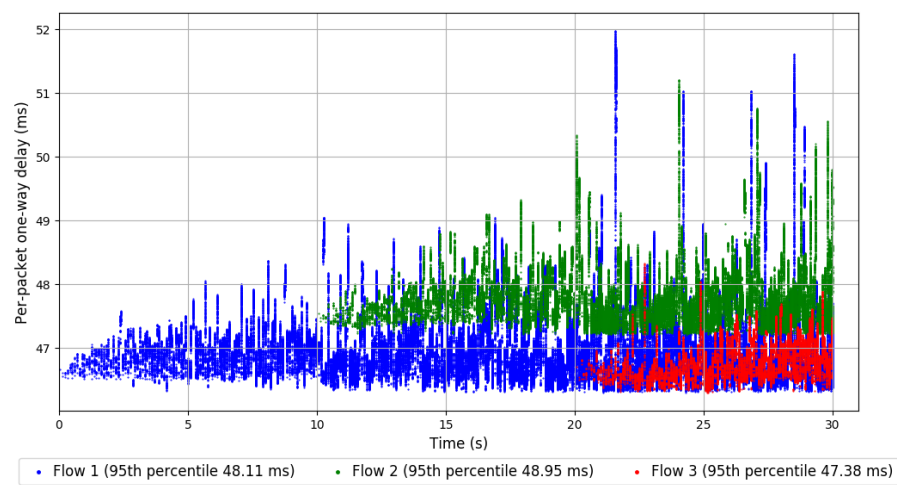
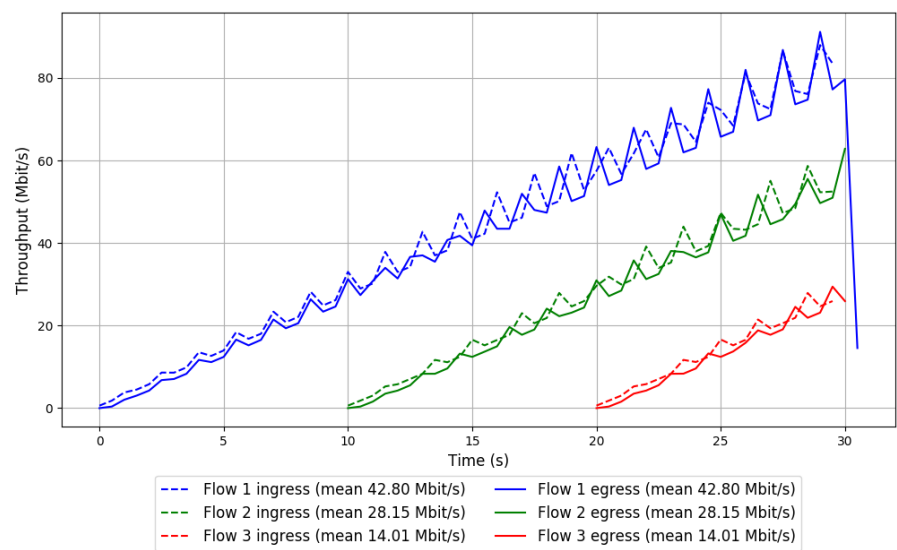
-- Flow 3:

Average throughput: 14.01 Mbit/s

95th percentile per-packet one-way delay: 47.380 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-01-03 22:00:47

End at: 2019-01-03 22:01:17

Local clock offset: -0.699 ms

Remote clock offset: 0.156 ms

Below is generated by plot.py at 2019-01-04 00:50:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.10 Mbit/s

95th percentile per-packet one-way delay: 49.240 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 42.09 Mbit/s

95th percentile per-packet one-way delay: 49.341 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 27.63 Mbit/s

95th percentile per-packet one-way delay: 49.118 ms

Loss rate: 0.00%

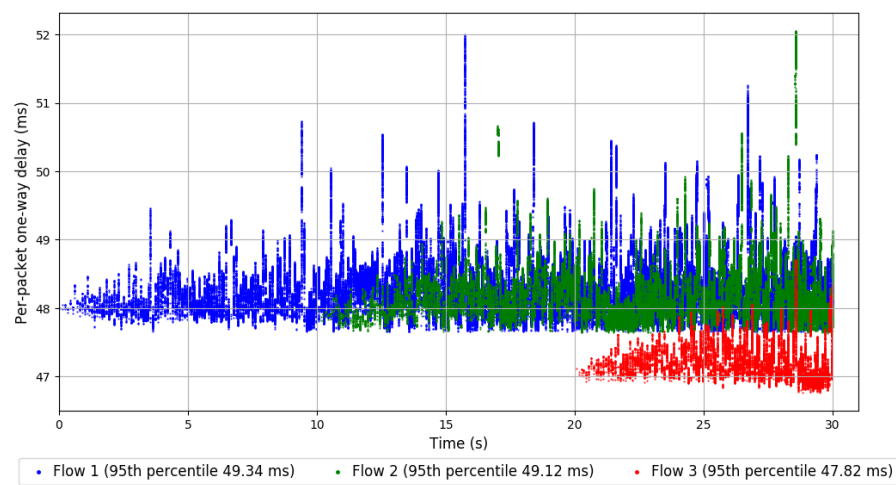
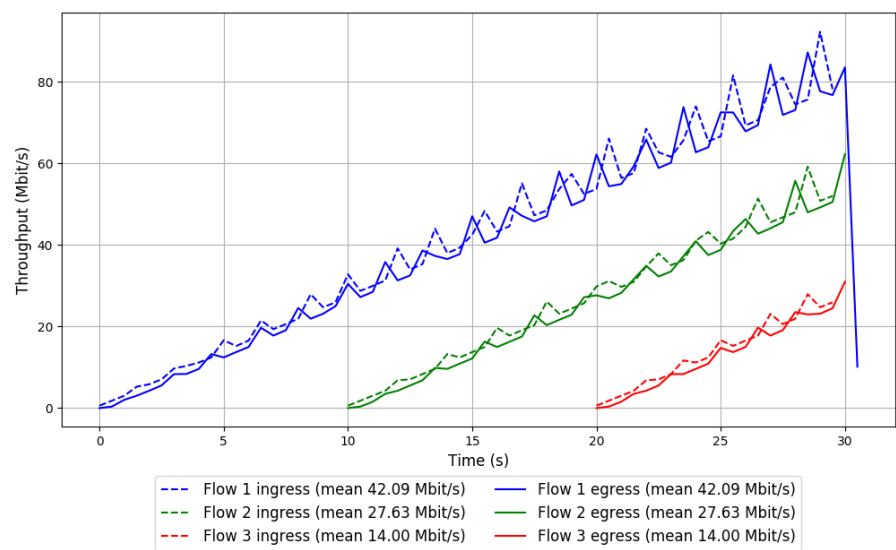
-- Flow 3:

Average throughput: 14.00 Mbit/s

95th percentile per-packet one-way delay: 47.819 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

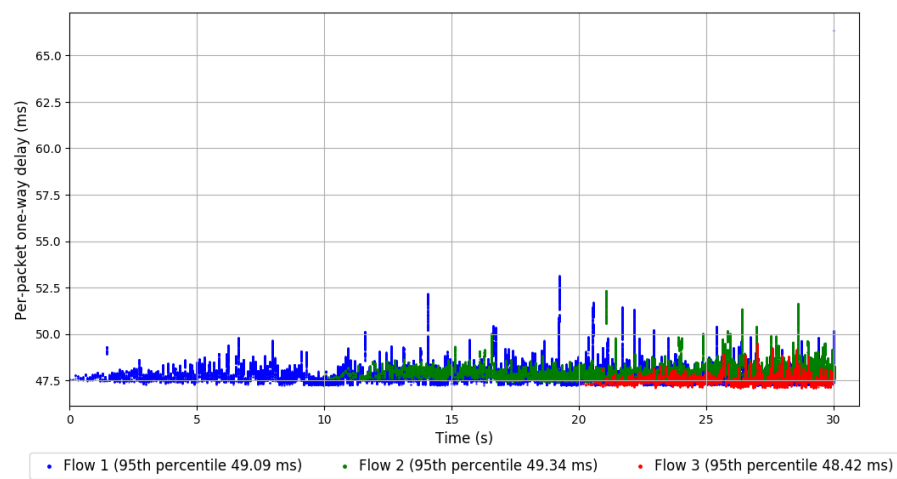
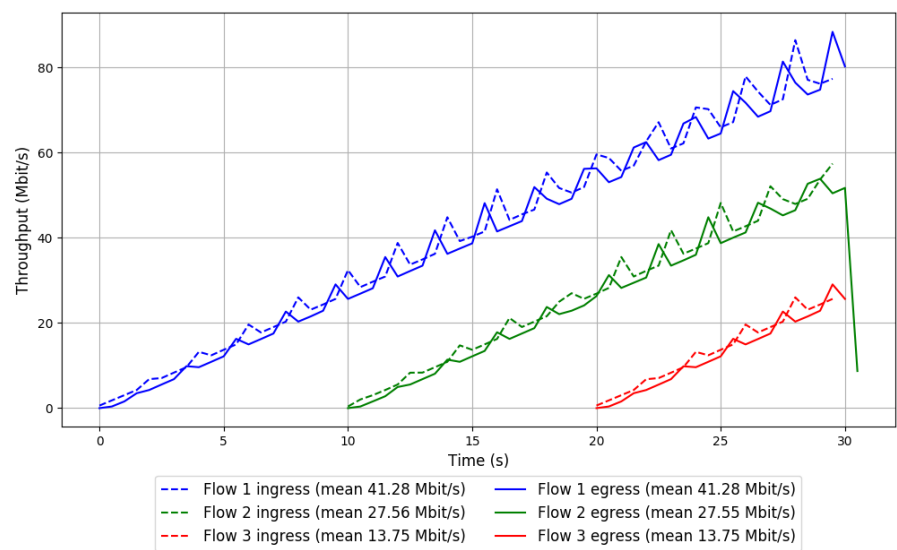


Run 4: Statistics of LEDBAT

Start at: 2019-01-03 22:32:32
End at: 2019-01-03 22:33:02
Local clock offset: -0.218 ms
Remote clock offset: -0.182 ms

Below is generated by plot.py at 2019-01-04 00:50:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.09 Mbit/s
95th percentile per-packet one-way delay: 49.137 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 41.28 Mbit/s
95th percentile per-packet one-way delay: 49.090 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 27.55 Mbit/s
95th percentile per-packet one-way delay: 49.344 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 13.75 Mbit/s
95th percentile per-packet one-way delay: 48.425 ms
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

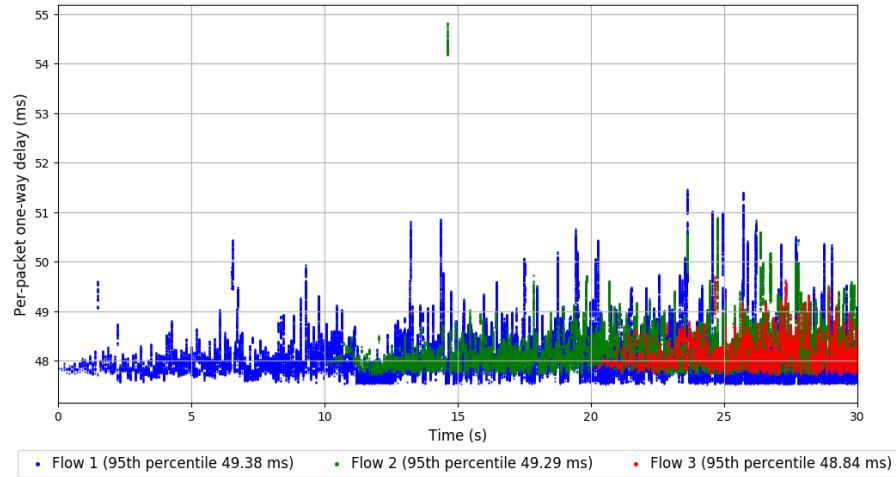
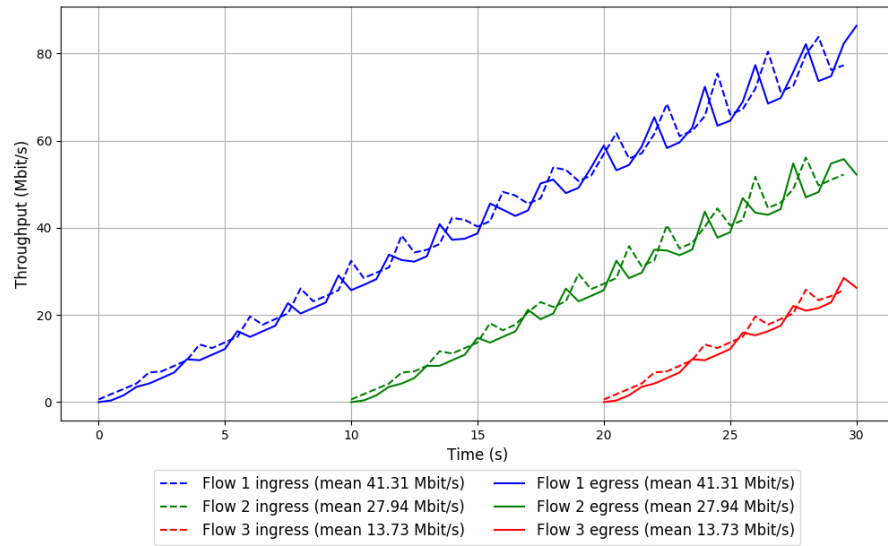


Run 5: Statistics of LEDBAT

Start at: 2019-01-03 23:04:42
End at: 2019-01-03 23:05:12
Local clock offset: -0.353 ms
Remote clock offset: -0.144 ms

Below is generated by plot.py at 2019-01-04 00:50:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.42 Mbit/s
95th percentile per-packet one-way delay: 49.292 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.31 Mbit/s
95th percentile per-packet one-way delay: 49.376 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 27.94 Mbit/s
95th percentile per-packet one-way delay: 49.293 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 13.73 Mbit/s
95th percentile per-packet one-way delay: 48.837 ms
Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

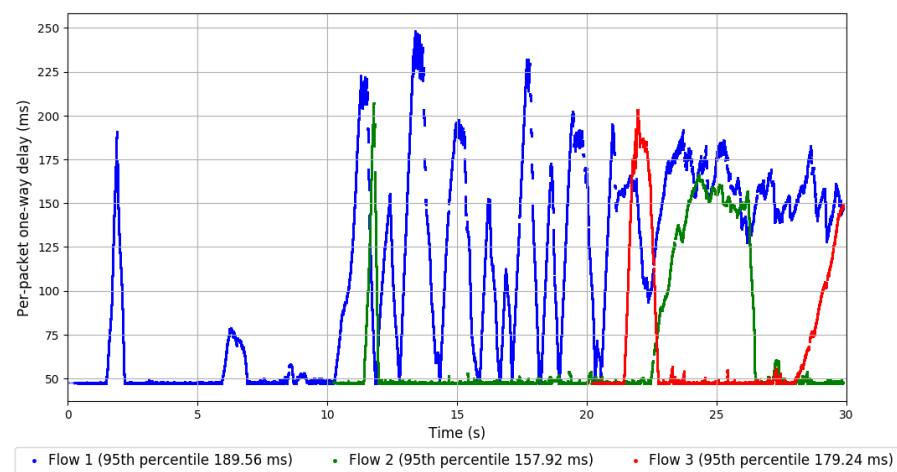
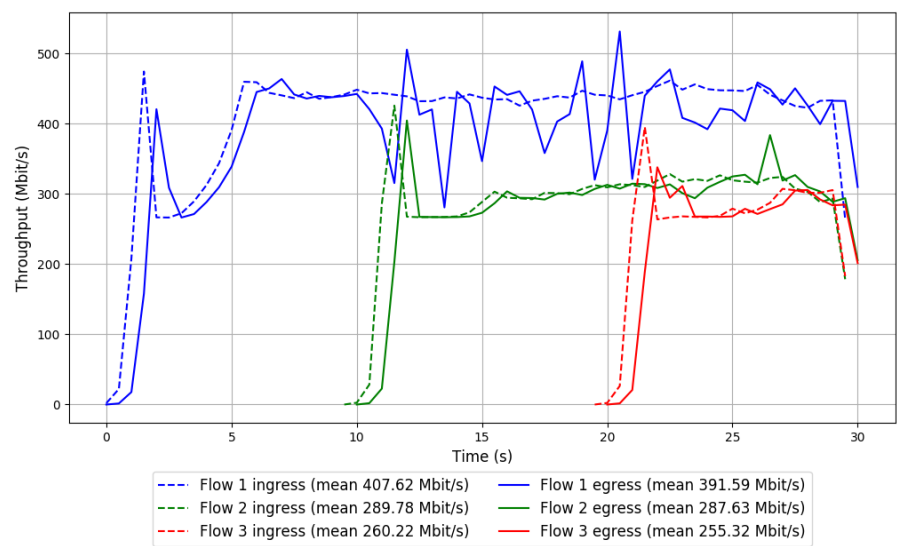


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-01-03 20:51:25
End at: 2019-01-03 20:51:55
Local clock offset: -0.193 ms
Remote clock offset: 0.359 ms

# Below is generated by plot.py at 2019-01-04 01:09:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 667.16 Mbit/s
95th percentile per-packet one-way delay: 183.808 ms
Loss rate: 2.78%
-- Flow 1:
Average throughput: 391.59 Mbit/s
95th percentile per-packet one-way delay: 189.565 ms
Loss rate: 3.93%
-- Flow 2:
Average throughput: 287.63 Mbit/s
95th percentile per-packet one-way delay: 157.921 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 255.32 Mbit/s
95th percentile per-packet one-way delay: 179.239 ms
Loss rate: 1.86%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-01-03 21:23:41

End at: 2019-01-03 21:24:11

Local clock offset: -0.221 ms

Remote clock offset: 0.464 ms

Below is generated by plot.py at 2019-01-04 01:09:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 675.98 Mbit/s

95th percentile per-packet one-way delay: 190.596 ms

Loss rate: 4.71%

-- Flow 1:

Average throughput: 373.13 Mbit/s

95th percentile per-packet one-way delay: 195.839 ms

Loss rate: 7.22%

-- Flow 2:

Average throughput: 329.51 Mbit/s

95th percentile per-packet one-way delay: 186.233 ms

Loss rate: 1.69%

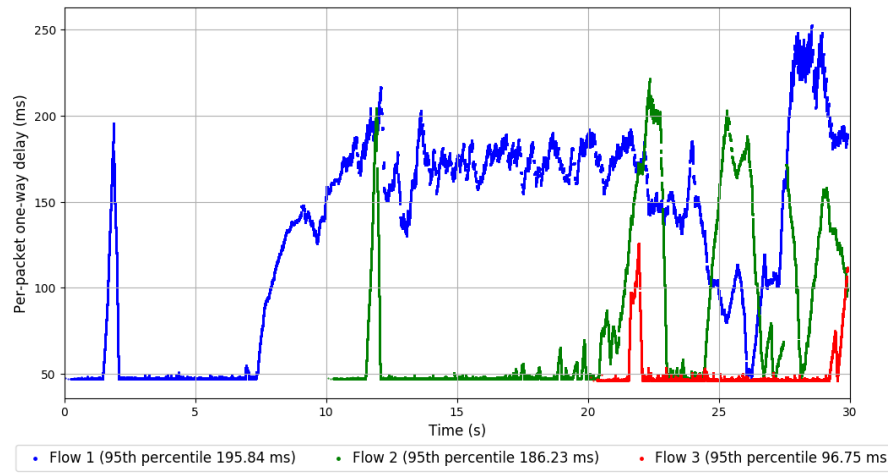
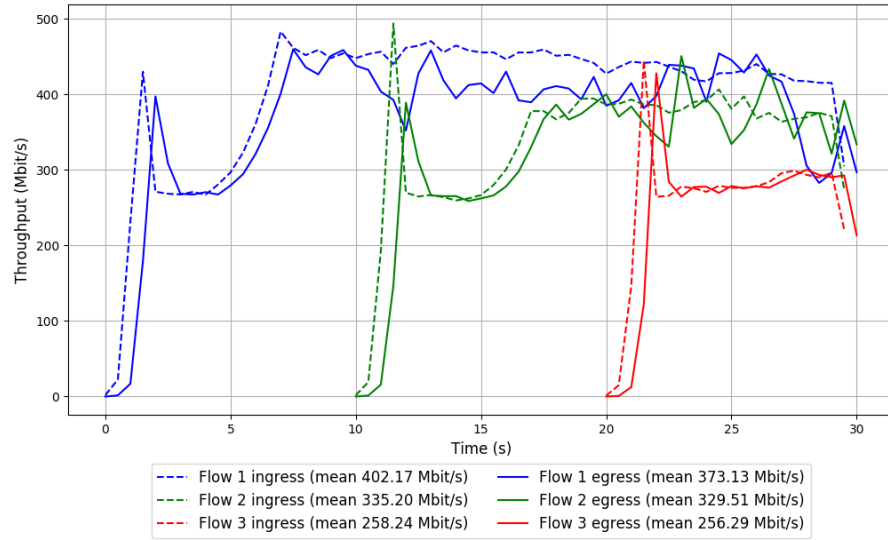
-- Flow 3:

Average throughput: 256.29 Mbit/s

95th percentile per-packet one-way delay: 96.751 ms

Loss rate: 0.76%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-01-03 21:55:53

End at: 2019-01-03 21:56:23

Local clock offset: 0.097 ms

Remote clock offset: 0.415 ms

Below is generated by plot.py at 2019-01-04 01:09:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 633.85 Mbit/s

95th percentile per-packet one-way delay: 168.413 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 357.97 Mbit/s

95th percentile per-packet one-way delay: 174.876 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 287.58 Mbit/s

95th percentile per-packet one-way delay: 57.477 ms

Loss rate: 0.72%

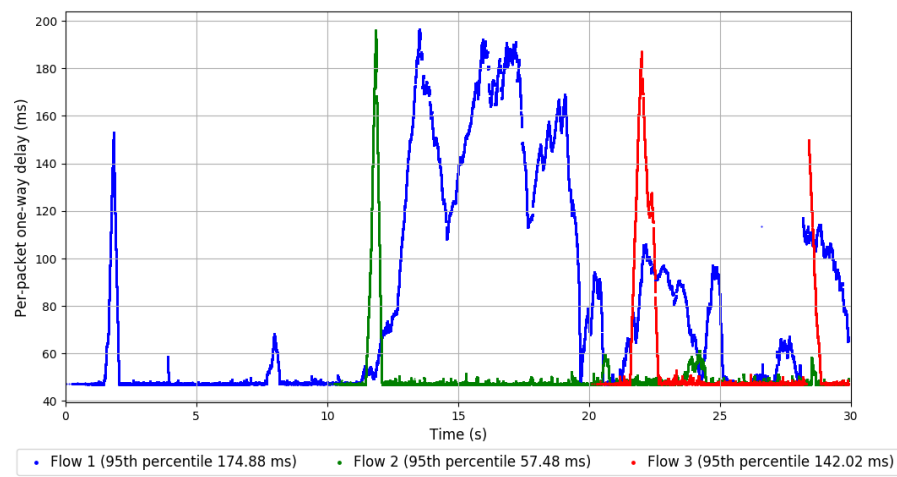
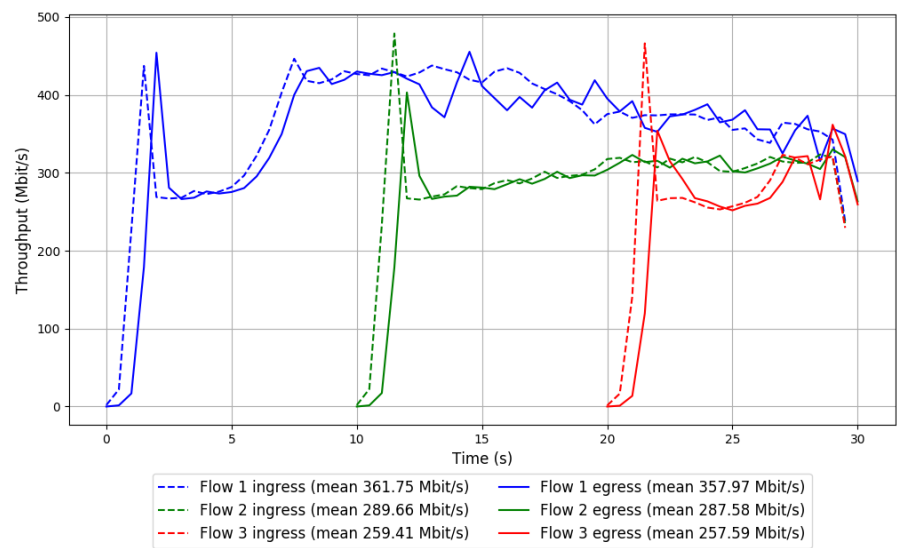
-- Flow 3:

Average throughput: 257.59 Mbit/s

95th percentile per-packet one-way delay: 142.021 ms

Loss rate: 0.71%

Run 3: Report of PCC-Allegro — Data Link

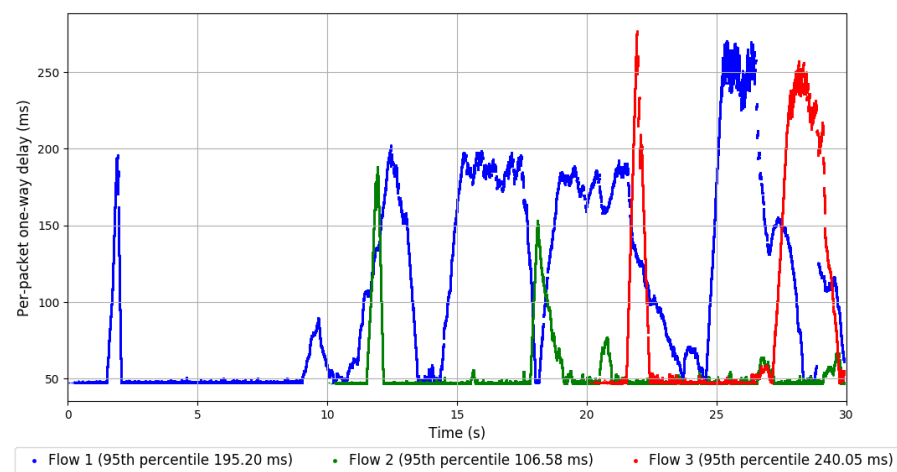
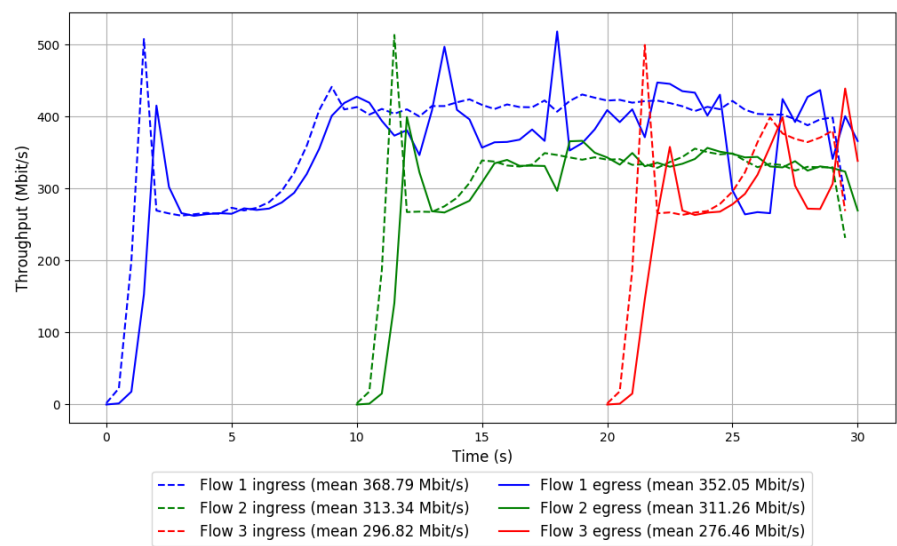


Run 4: Statistics of PCC-Allegro

Start at: 2019-01-03 22:27:35
End at: 2019-01-03 22:28:05
Local clock offset: -0.345 ms
Remote clock offset: -0.306 ms

Below is generated by plot.py at 2019-01-04 01:09:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 649.65 Mbit/s
95th percentile per-packet one-way delay: 196.655 ms
Loss rate: 3.67%
-- Flow 1:
Average throughput: 352.05 Mbit/s
95th percentile per-packet one-way delay: 195.196 ms
Loss rate: 4.53%
-- Flow 2:
Average throughput: 311.26 Mbit/s
95th percentile per-packet one-way delay: 106.584 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 276.46 Mbit/s
95th percentile per-packet one-way delay: 240.048 ms
Loss rate: 6.83%

Run 4: Report of PCC-Allegro — Data Link

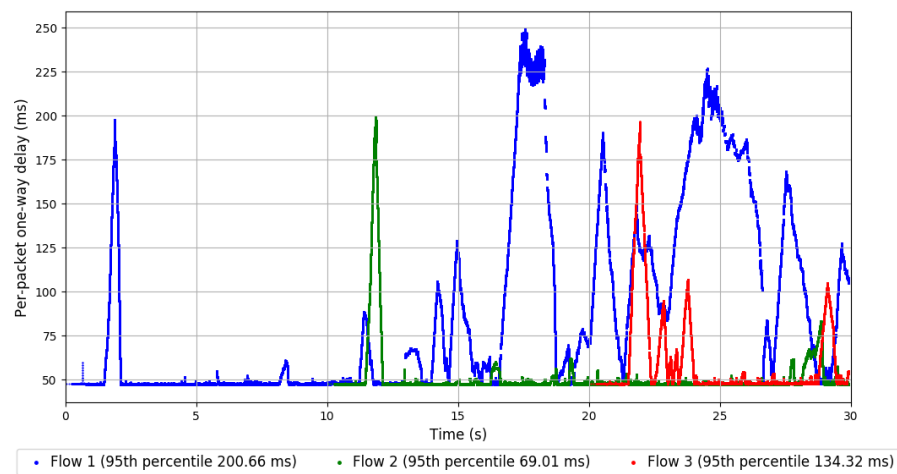
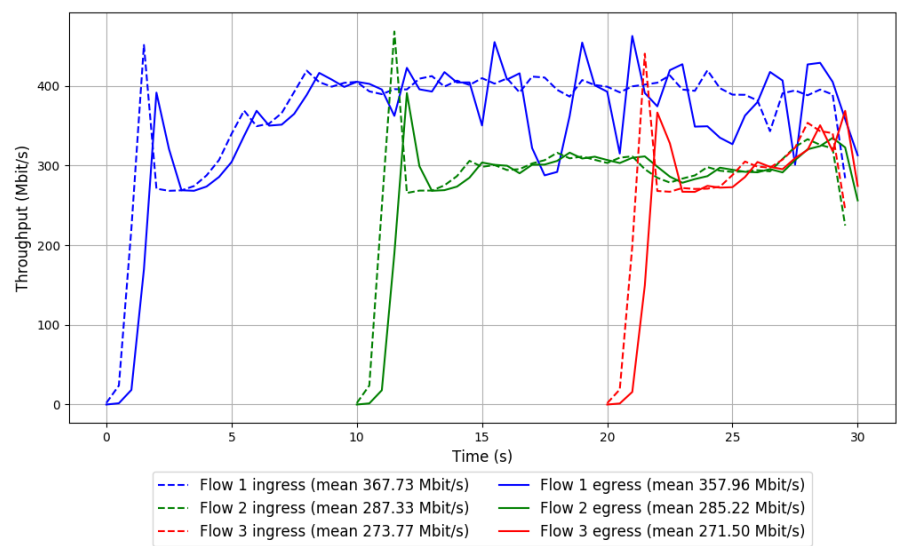


Run 5: Statistics of PCC-Allegro

Start at: 2019-01-03 22:59:44
End at: 2019-01-03 23:00:14
Local clock offset: -0.013 ms
Remote clock offset: -0.176 ms

Below is generated by plot.py at 2019-01-04 01:09:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 636.95 Mbit/s
95th percentile per-packet one-way delay: 184.825 ms
Loss rate: 1.84%
-- Flow 1:
Average throughput: 357.96 Mbit/s
95th percentile per-packet one-way delay: 200.662 ms
Loss rate: 2.66%
-- Flow 2:
Average throughput: 285.22 Mbit/s
95th percentile per-packet one-way delay: 69.010 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 271.50 Mbit/s
95th percentile per-packet one-way delay: 134.318 ms
Loss rate: 0.81%

Run 5: Report of PCC-Allegro — Data Link

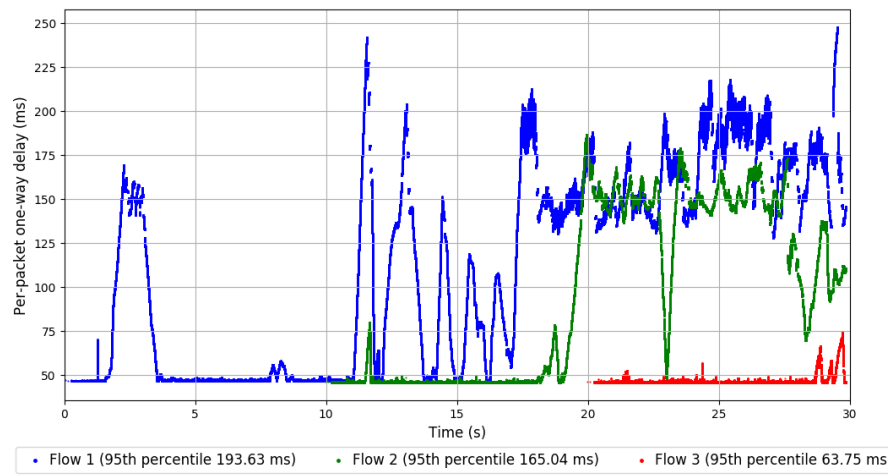
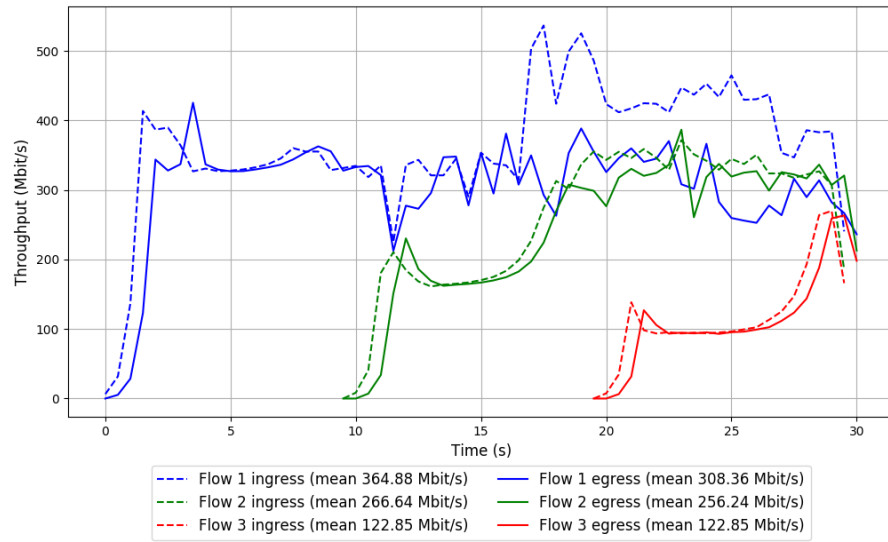


```
Run 1: Statistics of PCC-Expr

Start at: 2019-01-03 20:31:48
End at: 2019-01-03 20:32:18
Local clock offset: 0.176 ms
Remote clock offset: 0.243 ms

# Below is generated by plot.py at 2019-01-04 01:09:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 519.93 Mbit/s
95th percentile per-packet one-way delay: 186.000 ms
Loss rate: 10.88%
-- Flow 1:
Average throughput: 308.36 Mbit/s
95th percentile per-packet one-way delay: 193.630 ms
Loss rate: 15.50%
-- Flow 2:
Average throughput: 256.24 Mbit/s
95th percentile per-packet one-way delay: 165.041 ms
Loss rate: 3.90%
-- Flow 3:
Average throughput: 122.85 Mbit/s
95th percentile per-packet one-way delay: 63.754 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Expr — Data Link

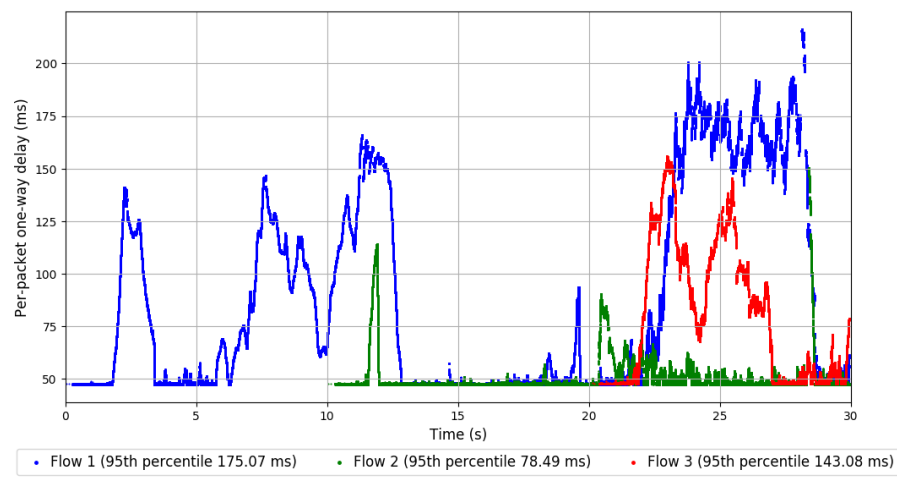
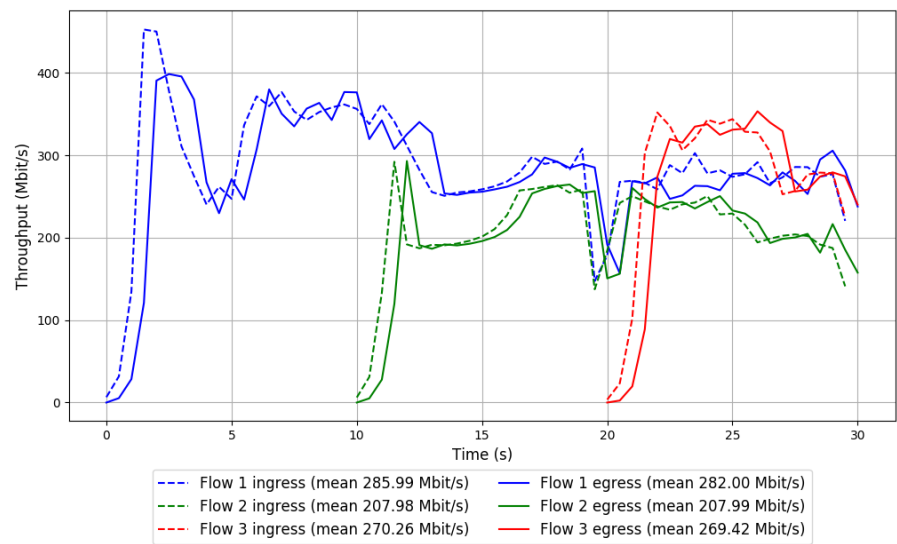


```
Run 2: Statistics of PCC-Expr

Start at: 2019-01-03 21:04:03
End at: 2019-01-03 21:04:33
Local clock offset: -0.259 ms
Remote clock offset: 0.399 ms

# Below is generated by plot.py at 2019-01-04 01:09:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 508.75 Mbit/s
95th percentile per-packet one-way delay: 165.664 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 282.00 Mbit/s
95th percentile per-packet one-way delay: 175.072 ms
Loss rate: 1.39%
-- Flow 2:
Average throughput: 207.99 Mbit/s
95th percentile per-packet one-way delay: 78.492 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 269.42 Mbit/s
95th percentile per-packet one-way delay: 143.078 ms
Loss rate: 0.30%
```

Run 2: Report of PCC-Expr — Data Link

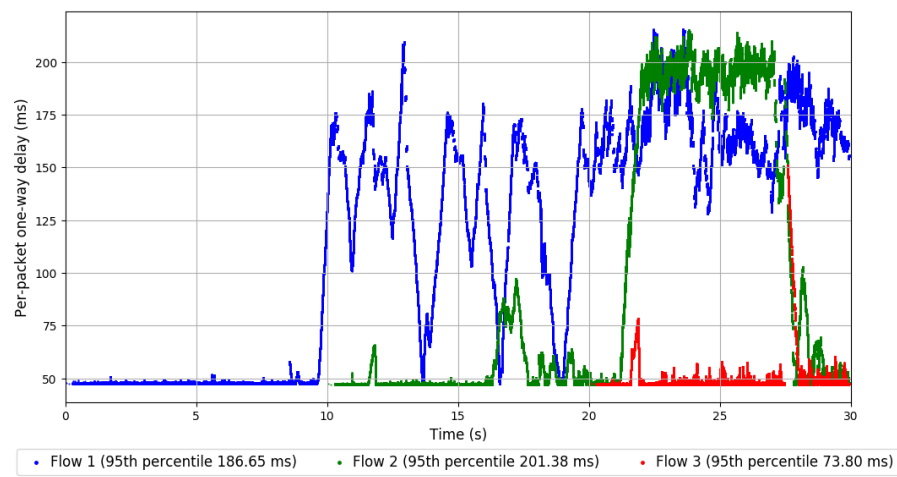
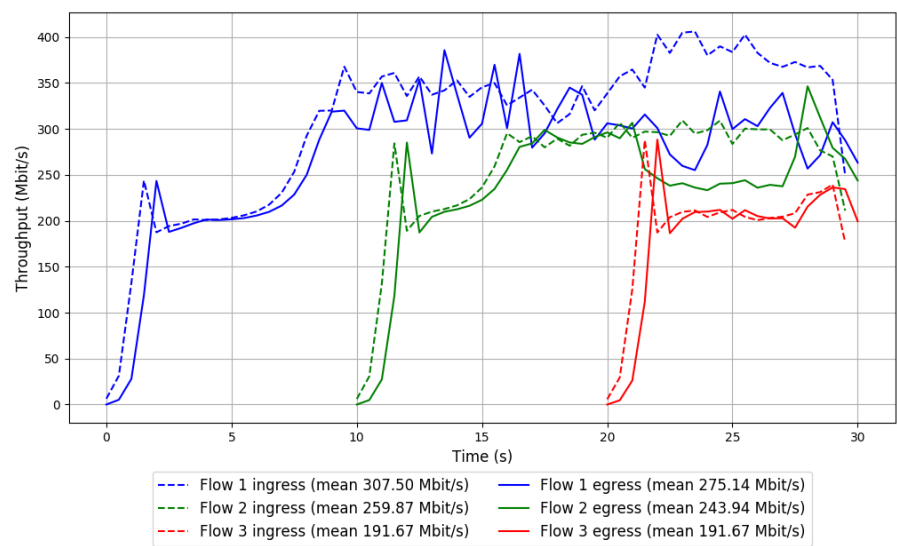



```
Run 3: Statistics of PCC-Expr

Start at: 2019-01-03 21:36:15
End at: 2019-01-03 21:36:45
Local clock offset: -0.272 ms
Remote clock offset: 0.505 ms

# Below is generated by plot.py at 2019-01-04 01:09:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 500.64 Mbit/s
95th percentile per-packet one-way delay: 196.561 ms
Loss rate: 7.90%
-- Flow 1:
Average throughput: 275.14 Mbit/s
95th percentile per-packet one-way delay: 186.650 ms
Loss rate: 10.53%
-- Flow 2:
Average throughput: 243.94 Mbit/s
95th percentile per-packet one-way delay: 201.375 ms
Loss rate: 6.13%
-- Flow 3:
Average throughput: 191.67 Mbit/s
95th percentile per-packet one-way delay: 73.803 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Expr — Data Link

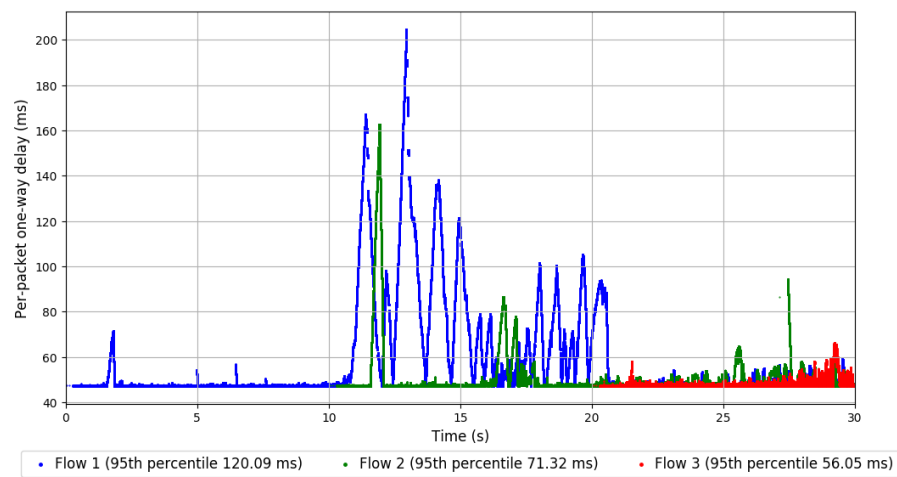
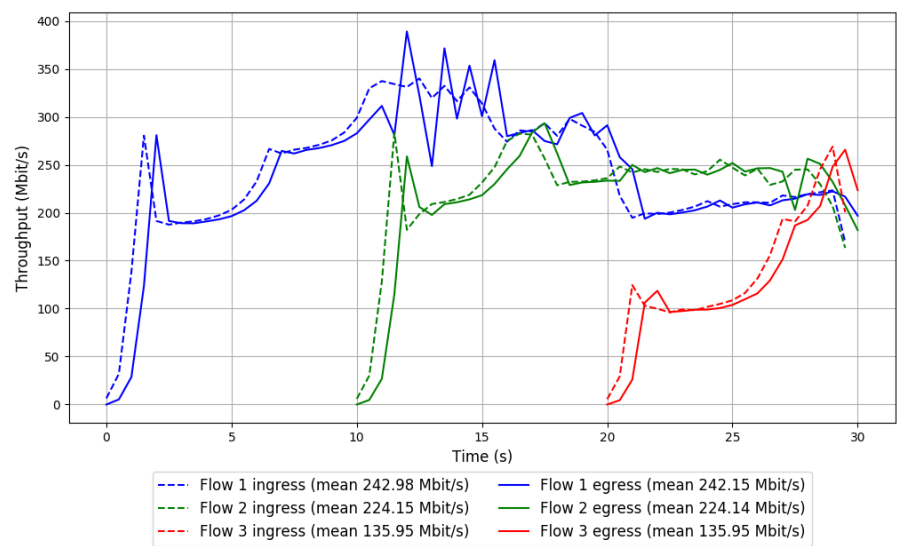


Run 4: Statistics of PCC-Expr

Start at: 2019-01-03 22:08:28
End at: 2019-01-03 22:08:58
Local clock offset: -0.319 ms
Remote clock offset: -0.037 ms

Below is generated by plot.py at 2019-01-04 01:18:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 436.07 Mbit/s
95th percentile per-packet one-way delay: 104.743 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 242.15 Mbit/s
95th percentile per-packet one-way delay: 120.093 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 224.14 Mbit/s
95th percentile per-packet one-way delay: 71.321 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 135.95 Mbit/s
95th percentile per-packet one-way delay: 56.048 ms
Loss rate: 0.00%

Run 4: Report of PCC-Expr — Data Link

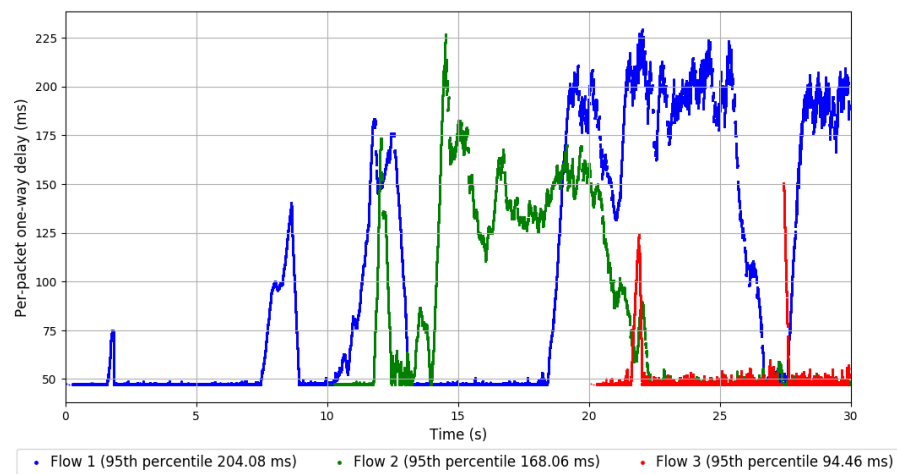
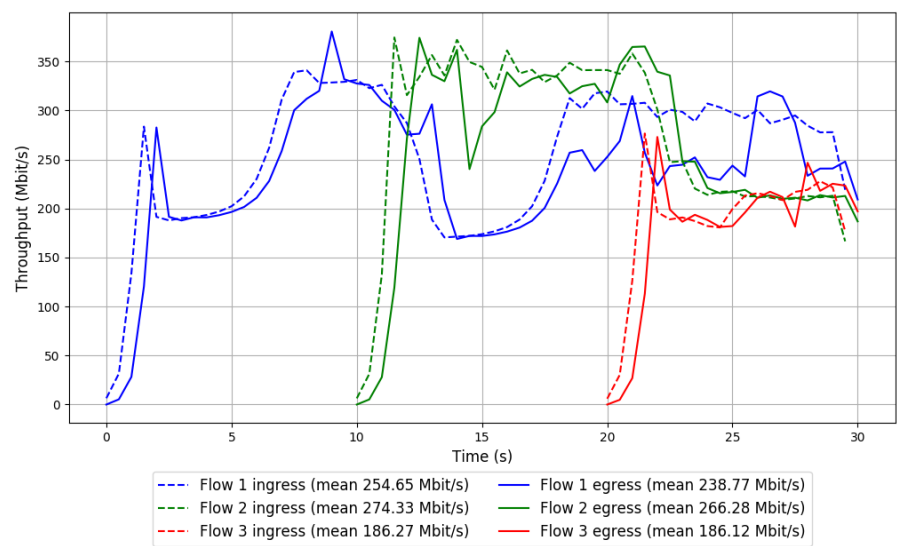


Run 5: Statistics of PCC-Expr

Start at: 2019-01-03 22:40:12
End at: 2019-01-03 22:40:42
Local clock offset: -0.132 ms
Remote clock offset: -0.107 ms

Below is generated by plot.py at 2019-01-04 01:22:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 477.32 Mbit/s
95th percentile per-packet one-way delay: 198.324 ms
Loss rate: 4.26%
-- Flow 1:
Average throughput: 238.77 Mbit/s
95th percentile per-packet one-way delay: 204.079 ms
Loss rate: 6.23%
-- Flow 2:
Average throughput: 266.28 Mbit/s
95th percentile per-packet one-way delay: 168.061 ms
Loss rate: 2.93%
-- Flow 3:
Average throughput: 186.12 Mbit/s
95th percentile per-packet one-way delay: 94.459 ms
Loss rate: 0.03%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-01-03 20:27:21

End at: 2019-01-03 20:27:51

Local clock offset: -0.172 ms

Remote clock offset: 0.224 ms

Below is generated by plot.py at 2019-01-04 01:22:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 30.12 Mbit/s

95th percentile per-packet one-way delay: 47.428 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 47.493 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 36.63 Mbit/s

95th percentile per-packet one-way delay: 47.434 ms

Loss rate: 0.00%

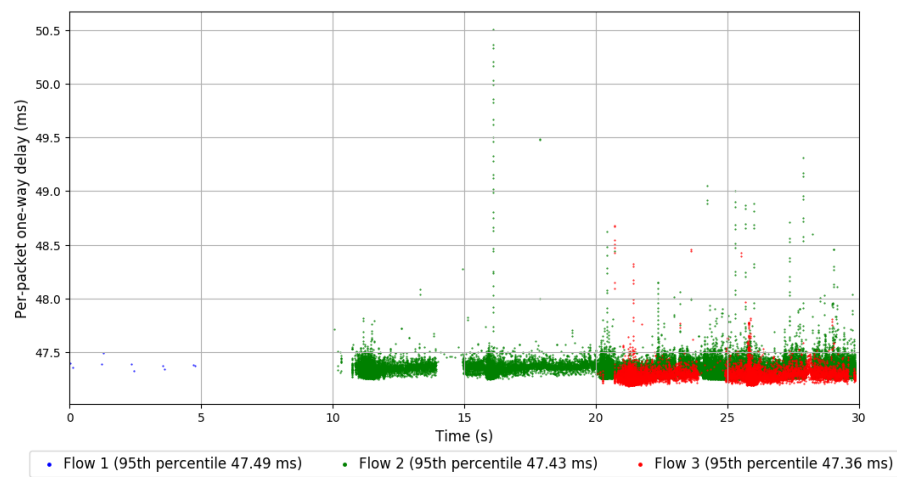
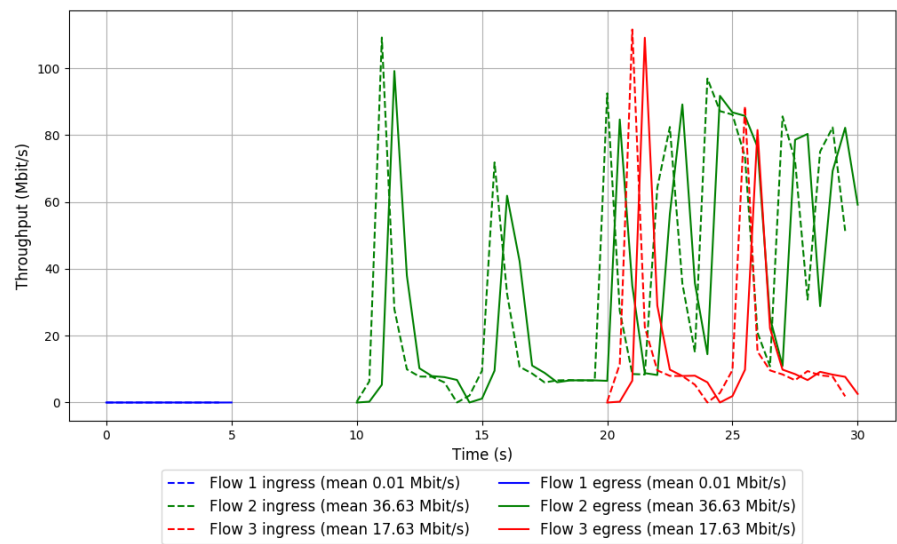
-- Flow 3:

Average throughput: 17.63 Mbit/s

95th percentile per-packet one-way delay: 47.361 ms

Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-01-03 20:59:34

End at: 2019-01-03 21:00:04

Local clock offset: 0.153 ms

Remote clock offset: 0.362 ms

Below is generated by plot.py at 2019-01-04 01:22:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.60 Mbit/s

95th percentile per-packet one-way delay: 47.236 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 40.92 Mbit/s

95th percentile per-packet one-way delay: 47.305 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 33.63 Mbit/s

95th percentile per-packet one-way delay: 46.992 ms

Loss rate: 0.00%

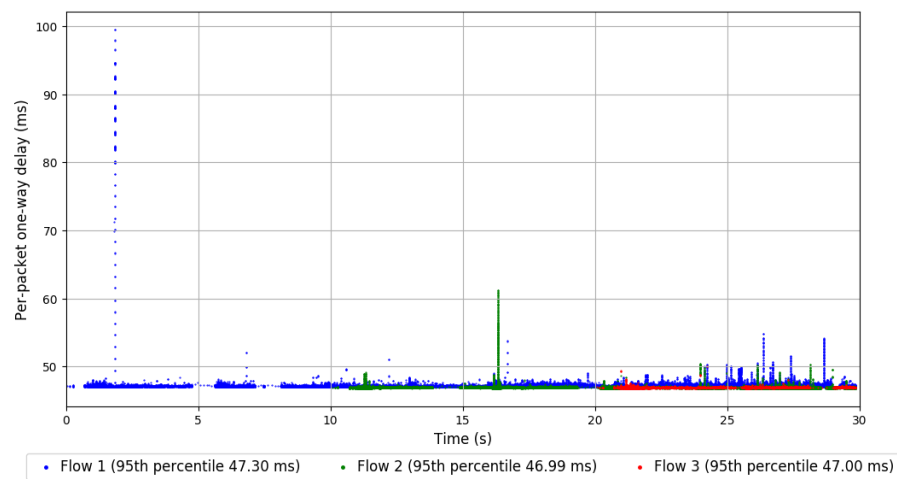
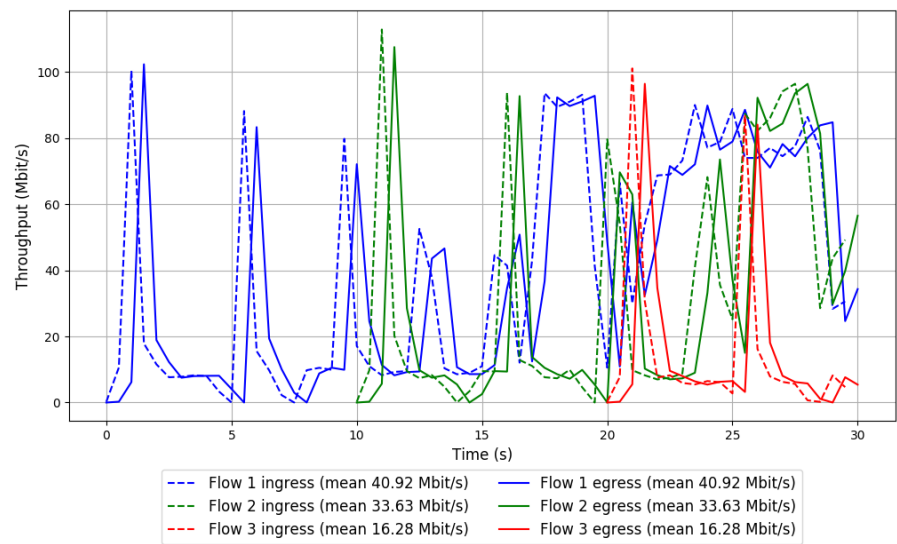
-- Flow 3:

Average throughput: 16.28 Mbit/s

95th percentile per-packet one-way delay: 46.997 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-01-03 21:31:50

End at: 2019-01-03 21:32:20

Local clock offset: -0.625 ms

Remote clock offset: 0.507 ms

Below is generated by plot.py at 2019-01-04 01:22:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.35 Mbit/s

95th percentile per-packet one-way delay: 47.727 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.41 Mbit/s

95th percentile per-packet one-way delay: 47.744 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 44.85 Mbit/s

95th percentile per-packet one-way delay: 47.644 ms

Loss rate: 0.00%

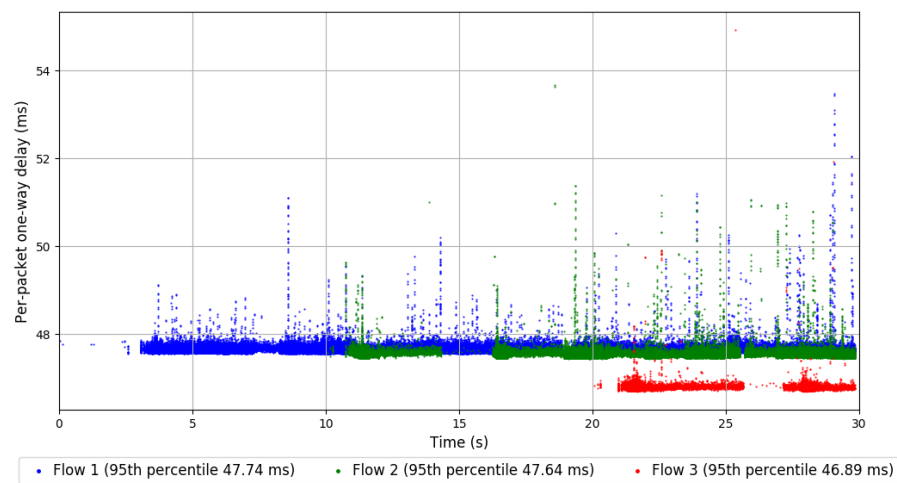
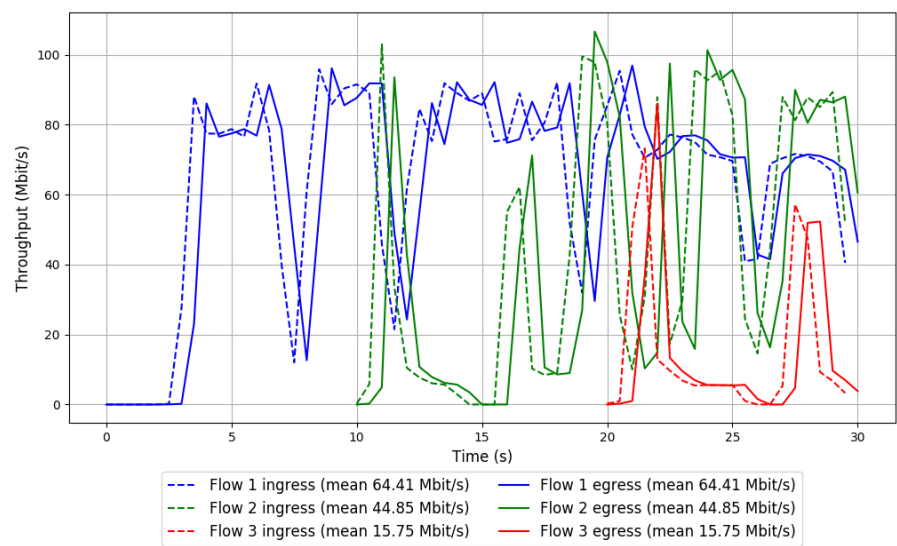
-- Flow 3:

Average throughput: 15.75 Mbit/s

95th percentile per-packet one-way delay: 46.891 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-01-03 22:04:02

End at: 2019-01-03 22:04:32

Local clock offset: -0.671 ms

Remote clock offset: 0.096 ms

Below is generated by plot.py at 2019-01-04 01:22:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 105.71 Mbit/s

95th percentile per-packet one-way delay: 47.810 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.13 Mbit/s

95th percentile per-packet one-way delay: 47.827 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.06 Mbit/s

95th percentile per-packet one-way delay: 47.797 ms

Loss rate: 0.00%

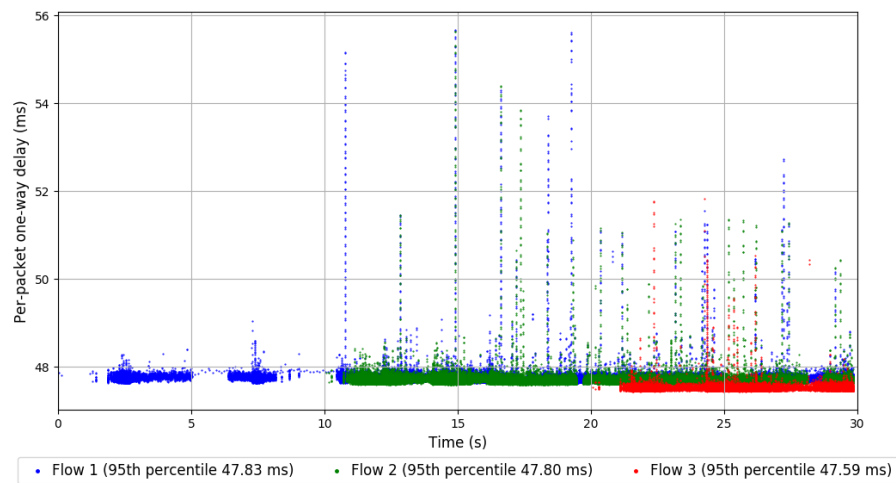
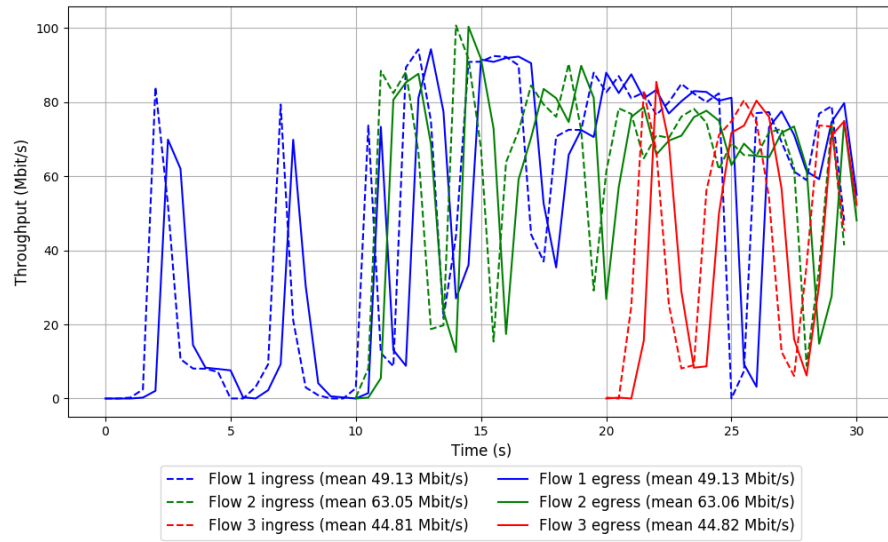
-- Flow 3:

Average throughput: 44.82 Mbit/s

95th percentile per-packet one-way delay: 47.590 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link

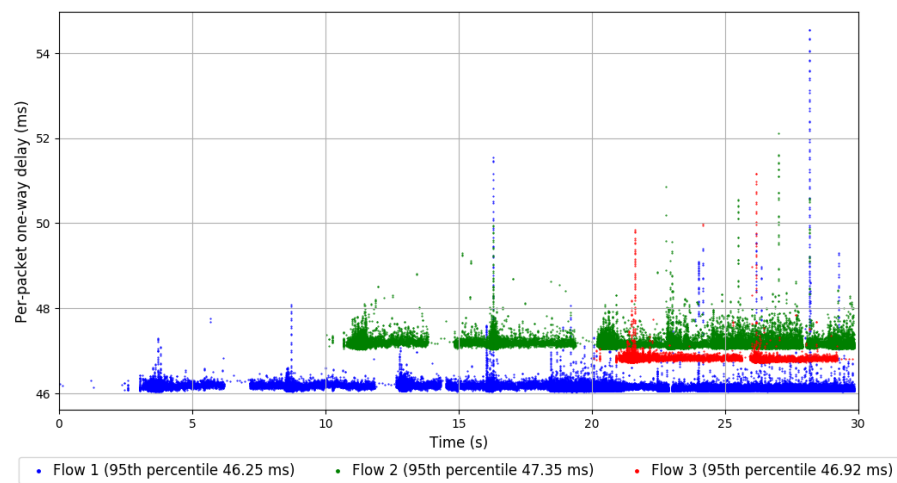
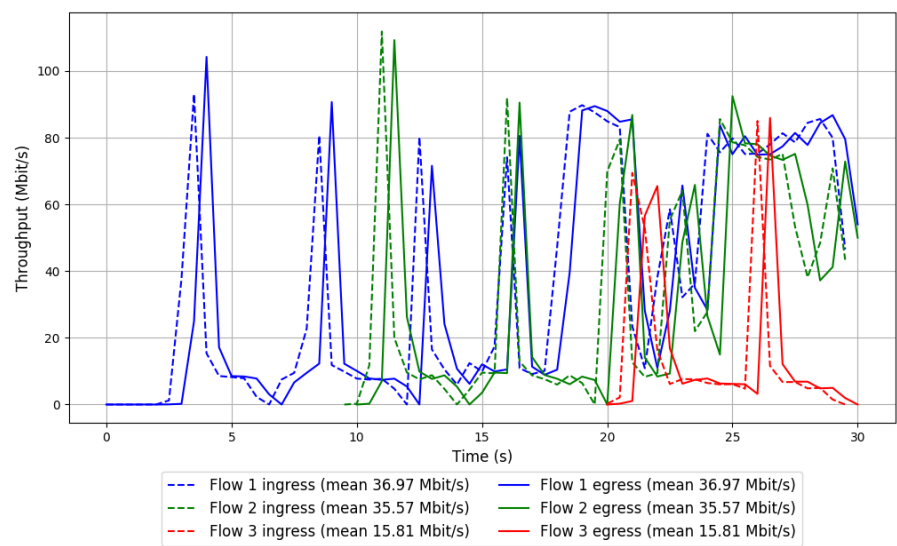


Run 5: Statistics of QUIC Cubic

Start at: 2019-01-03 22:35:48
End at: 2019-01-03 22:36:18
Local clock offset: 0.17 ms
Remote clock offset: -0.151 ms

Below is generated by plot.py at 2019-01-04 01:22:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.76 Mbit/s
95th percentile per-packet one-way delay: 47.234 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 36.97 Mbit/s
95th percentile per-packet one-way delay: 46.249 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.57 Mbit/s
95th percentile per-packet one-way delay: 47.351 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 15.81 Mbit/s
95th percentile per-packet one-way delay: 46.917 ms
Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

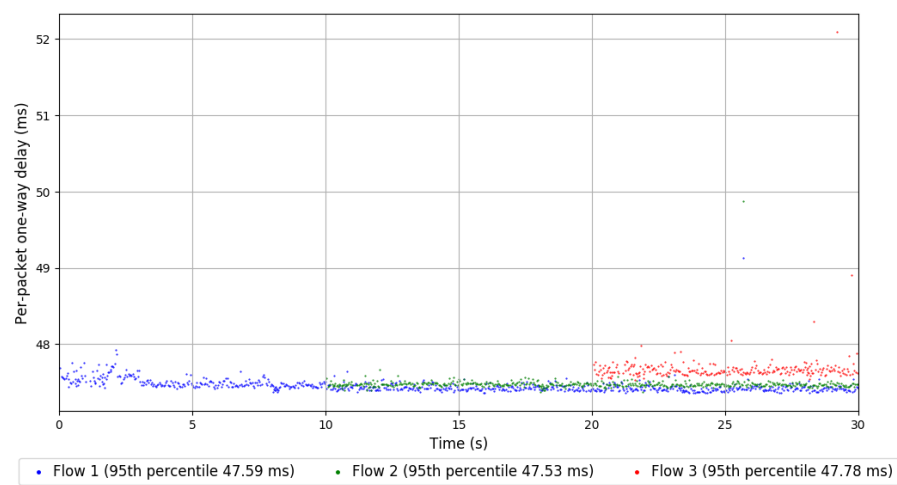
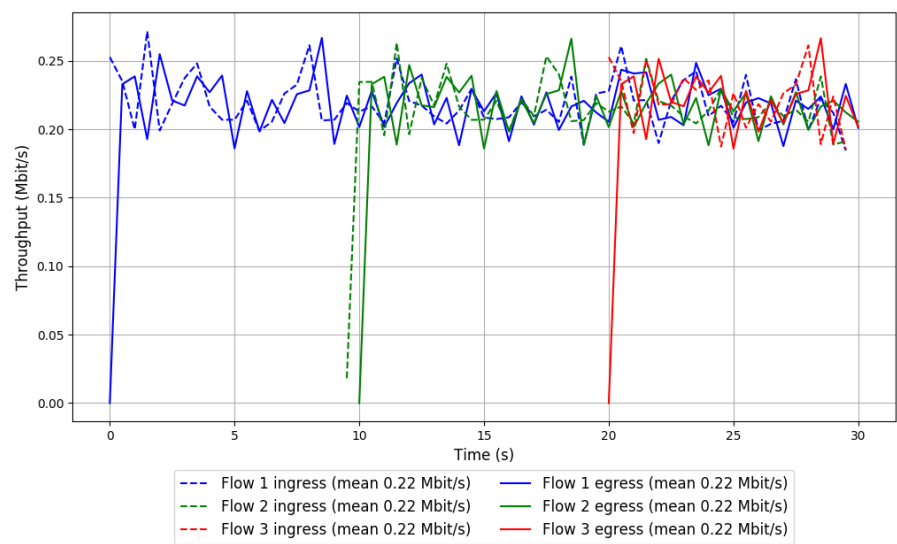



```
Run 1: Statistics of SReAM

Start at: 2019-01-03 20:46:30
End at: 2019-01-03 20:47:00
Local clock offset: -0.183 ms
Remote clock offset: 0.339 ms

# Below is generated by plot.py at 2019-01-04 01:22:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 47.700 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.588 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.528 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.784 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2019-01-03 21:18:50

End at: 2019-01-03 21:19:20

Local clock offset: -0.256 ms

Remote clock offset: 0.447 ms

Below is generated by plot.py at 2019-01-04 01:22:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 47.662 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.662 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.702 ms

Loss rate: 0.00%

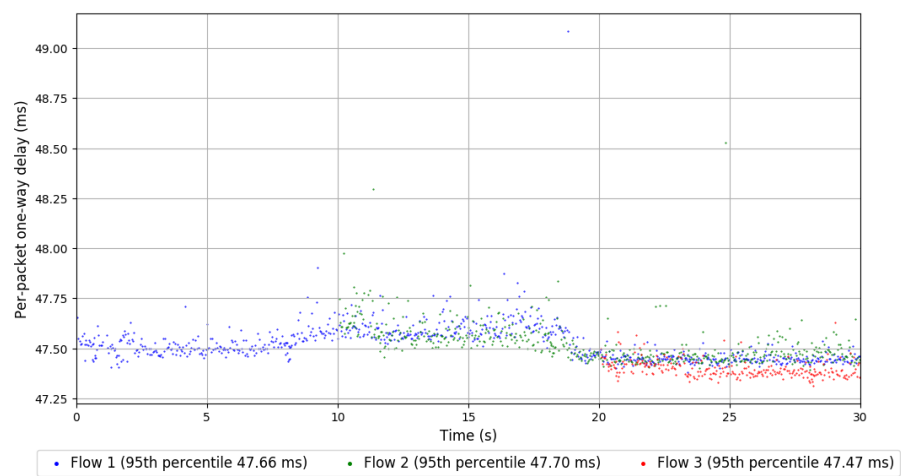
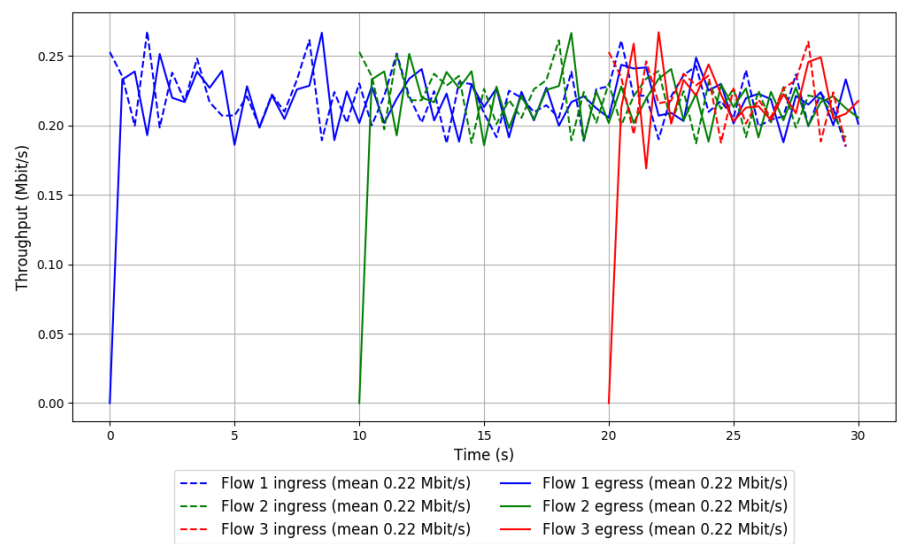
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.473 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

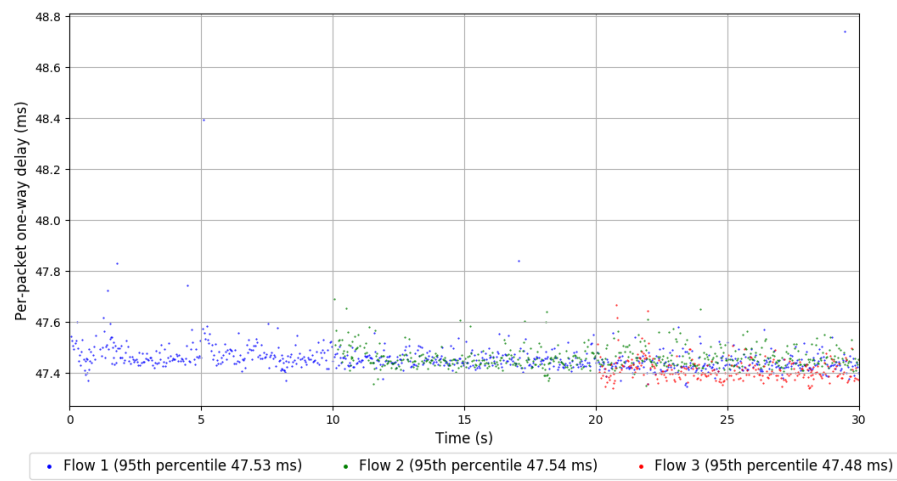
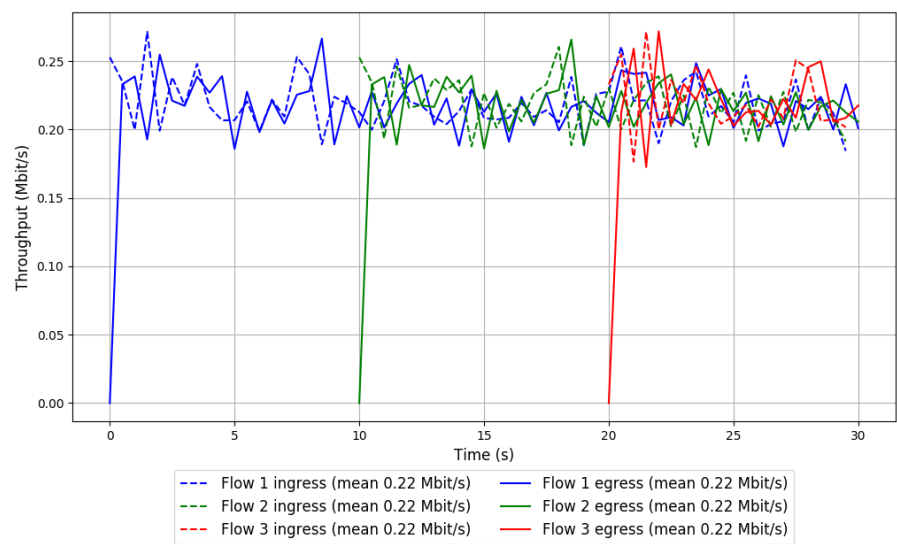


Run 3: Statistics of SReAM

Start at: 2019-01-03 21:51:06
End at: 2019-01-03 21:51:36
Local clock offset: -0.304 ms
Remote clock offset: 0.559 ms

Below is generated by plot.py at 2019-01-04 01:22:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 47.530 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.532 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.537 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.484 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

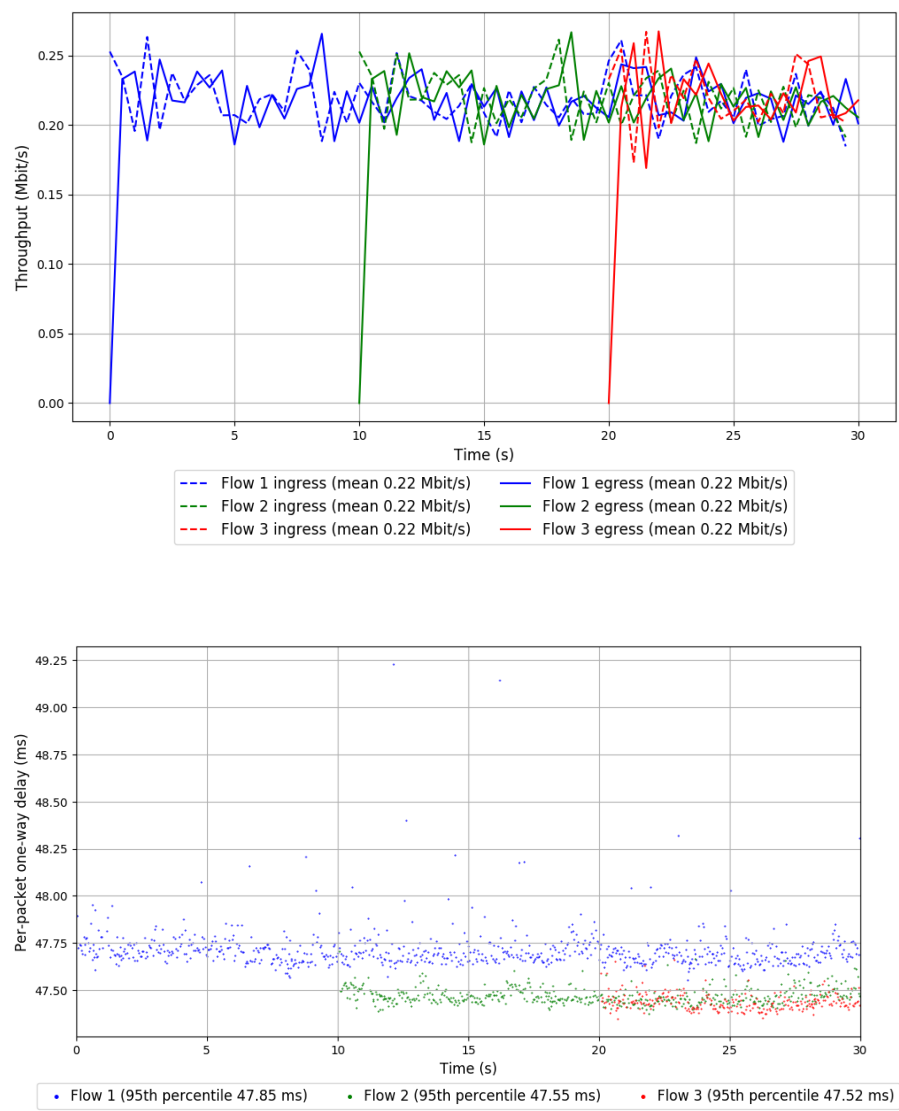


Run 4: Statistics of SReAM

Start at: 2019-01-03 22:22:45
End at: 2019-01-03 22:23:15
Local clock offset: -0.357 ms
Remote clock offset: -0.236 ms

Below is generated by plot.py at 2019-01-04 01:22:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 47.785 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.848 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.551 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.516 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

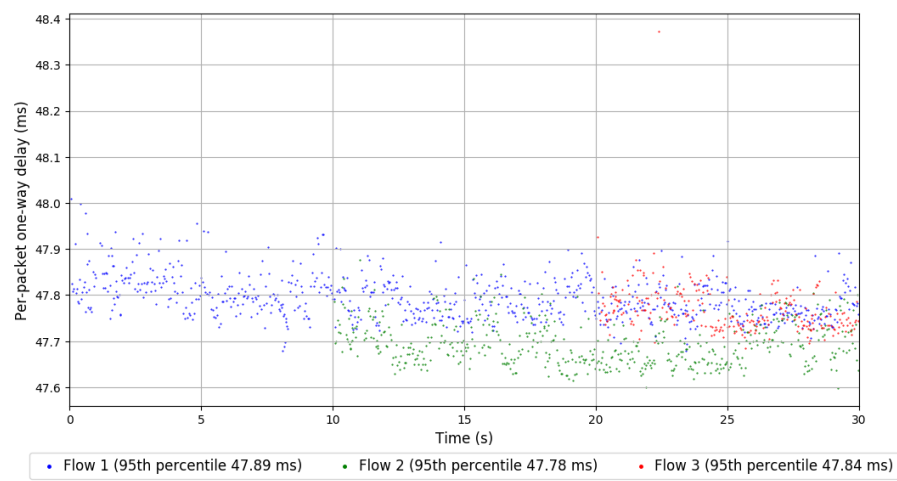
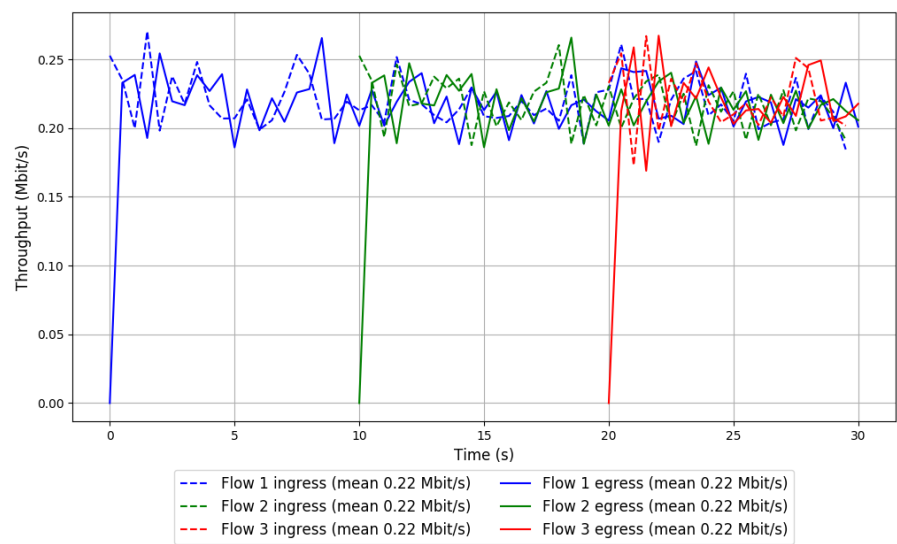


Run 5: Statistics of SReAM

Start at: 2019-01-03 22:54:55
End at: 2019-01-03 22:55:25
Local clock offset: -0.402 ms
Remote clock offset: -0.159 ms

Below is generated by plot.py at 2019-01-04 01:22:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 47.855 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.886 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.781 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.843 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-01-03 20:55:06

End at: 2019-01-03 20:55:36

Local clock offset: 0.124 ms

Remote clock offset: 0.345 ms

Below is generated by plot.py at 2019-01-04 01:22:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.65 Mbit/s

95th percentile per-packet one-way delay: 47.601 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 9.64 Mbit/s

95th percentile per-packet one-way delay: 47.644 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.94 Mbit/s

95th percentile per-packet one-way delay: 47.579 ms

Loss rate: 0.00%

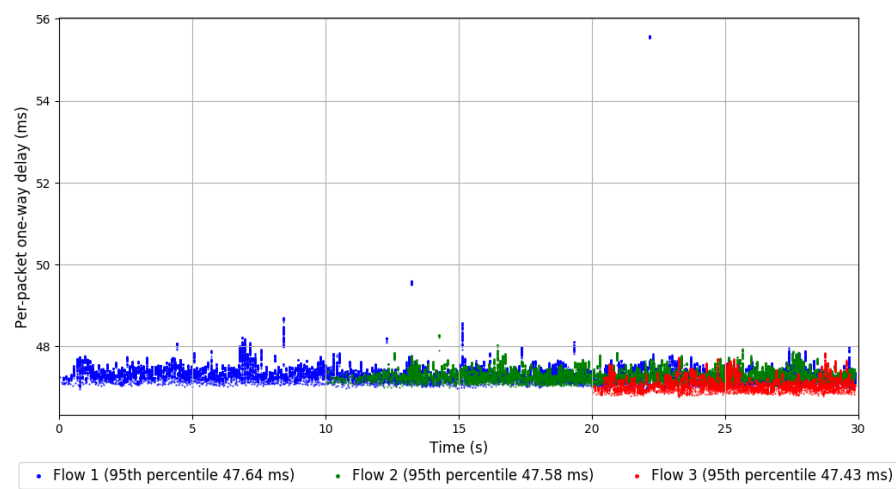
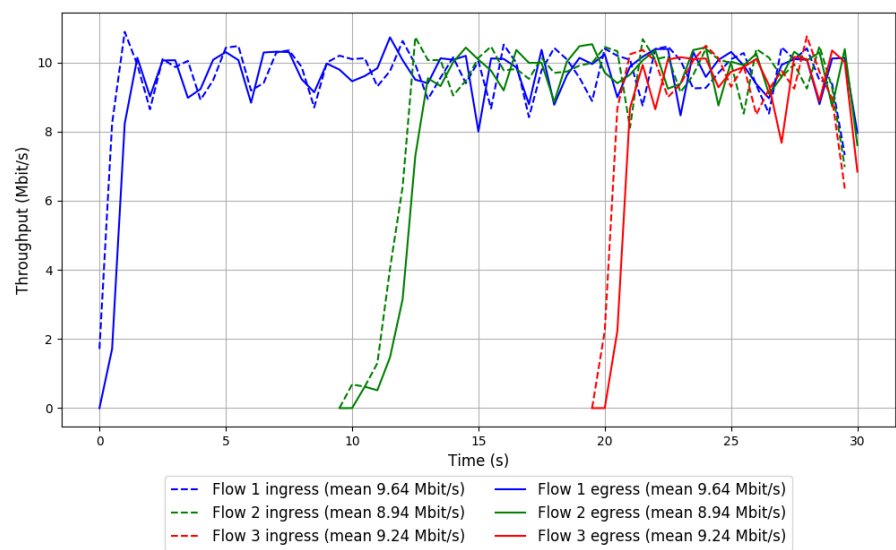
-- Flow 3:

Average throughput: 9.24 Mbit/s

95th percentile per-packet one-way delay: 47.431 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-01-03 21:27:22

End at: 2019-01-03 21:27:52

Local clock offset: -0.28 ms

Remote clock offset: 0.466 ms

Below is generated by plot.py at 2019-01-04 01:22:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.17 Mbit/s

95th percentile per-packet one-way delay: 47.811 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 9.70 Mbit/s

95th percentile per-packet one-way delay: 47.714 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 9.67 Mbit/s

95th percentile per-packet one-way delay: 47.946 ms

Loss rate: 0.00%

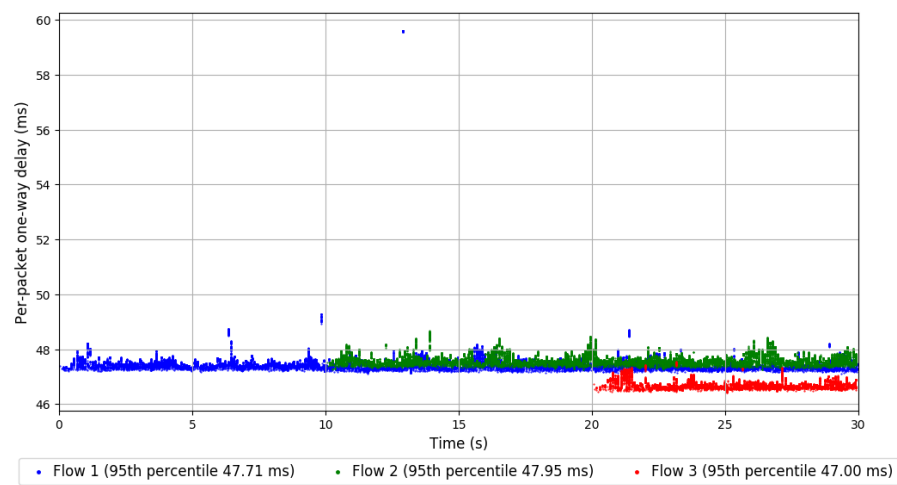
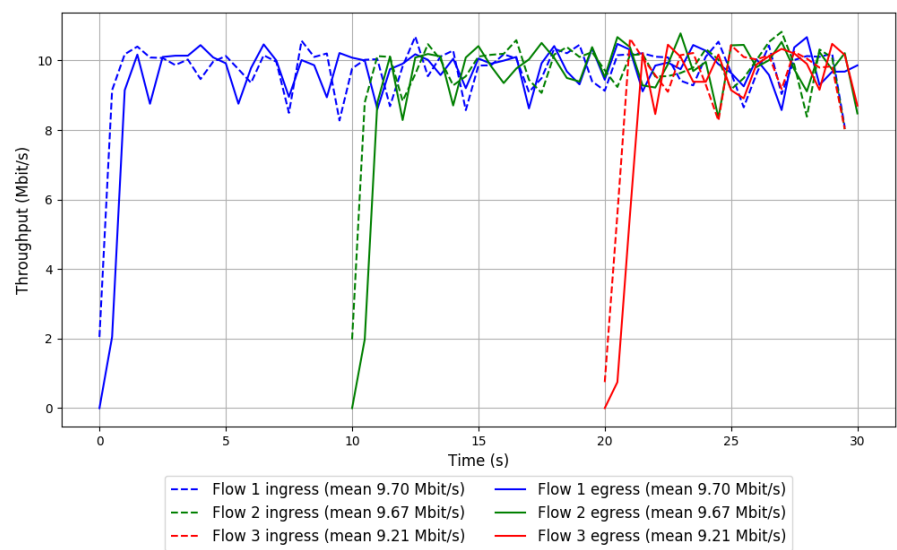
-- Flow 3:

Average throughput: 9.21 Mbit/s

95th percentile per-packet one-way delay: 47.002 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

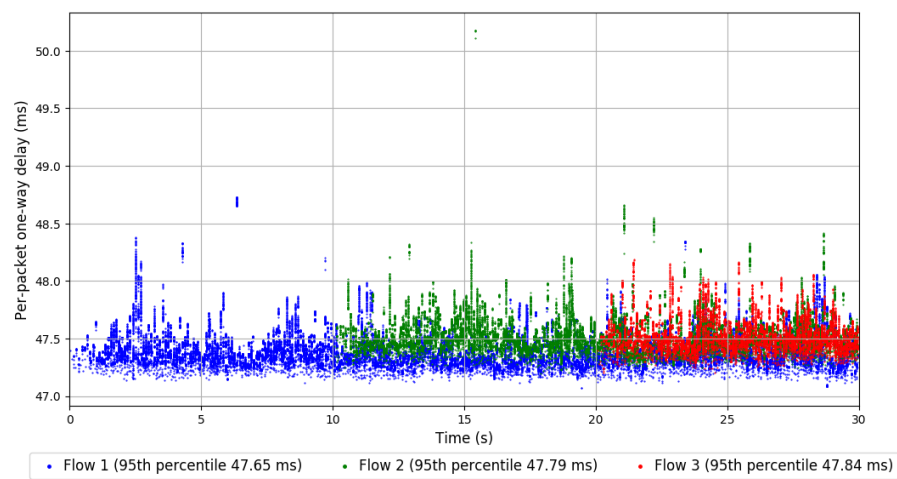
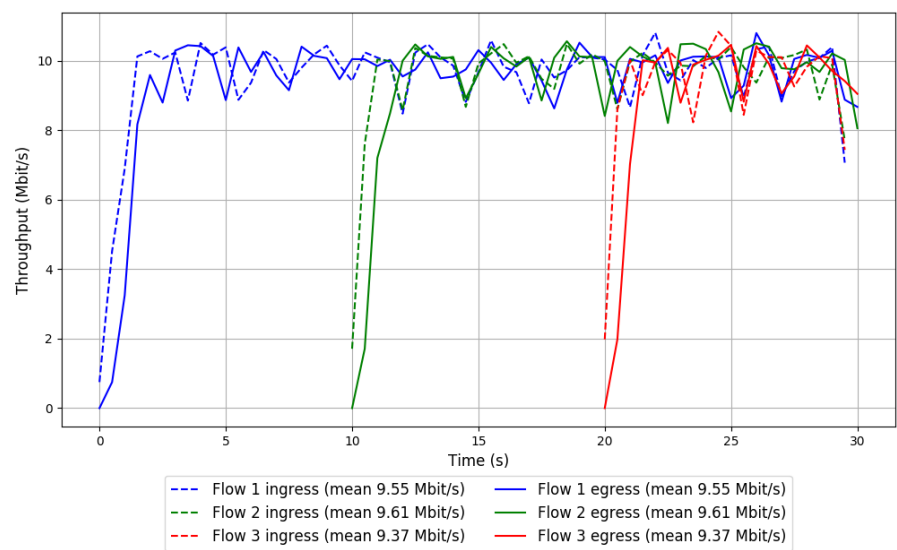


Run 3: Statistics of Sprout

Start at: 2019-01-03 21:59:35
End at: 2019-01-03 22:00:05
Local clock offset: -0.244 ms
Remote clock offset: 0.195 ms

```
# Below is generated by plot.py at 2019-01-04 01:22:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.03 Mbit/s
95th percentile per-packet one-way delay: 47.746 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.55 Mbit/s
95th percentile per-packet one-way delay: 47.651 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 9.61 Mbit/s
95th percentile per-packet one-way delay: 47.793 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.37 Mbit/s
95th percentile per-packet one-way delay: 47.839 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

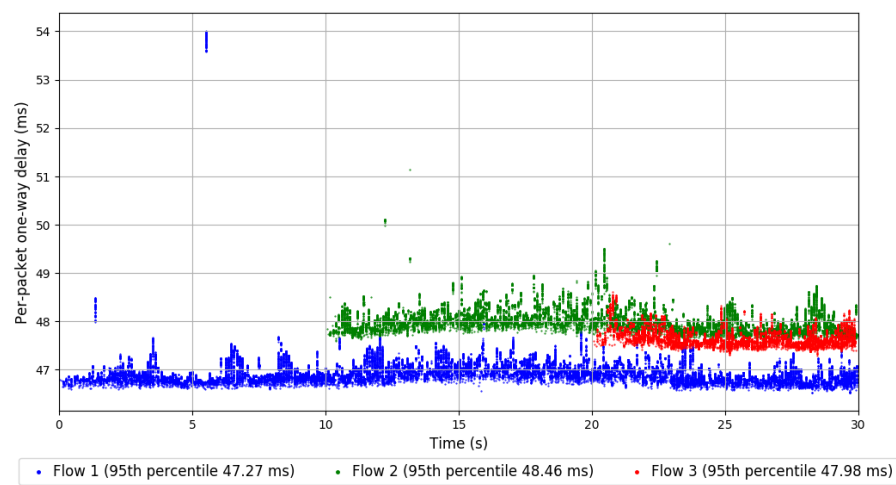
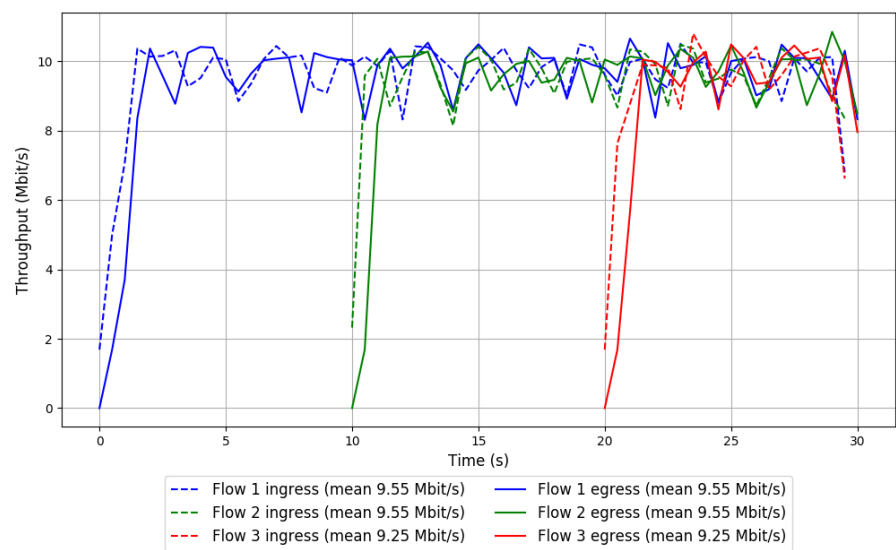


Run 4: Statistics of Sprout

Start at: 2019-01-03 22:31:19
End at: 2019-01-03 22:31:49
Local clock offset: -0.258 ms
Remote clock offset: -0.173 ms

```
# Below is generated by plot.py at 2019-01-04 01:22:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.94 Mbit/s
95th percentile per-packet one-way delay: 48.238 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.55 Mbit/s
95th percentile per-packet one-way delay: 47.269 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 9.55 Mbit/s
95th percentile per-packet one-way delay: 48.456 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.25 Mbit/s
95th percentile per-packet one-way delay: 47.982 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

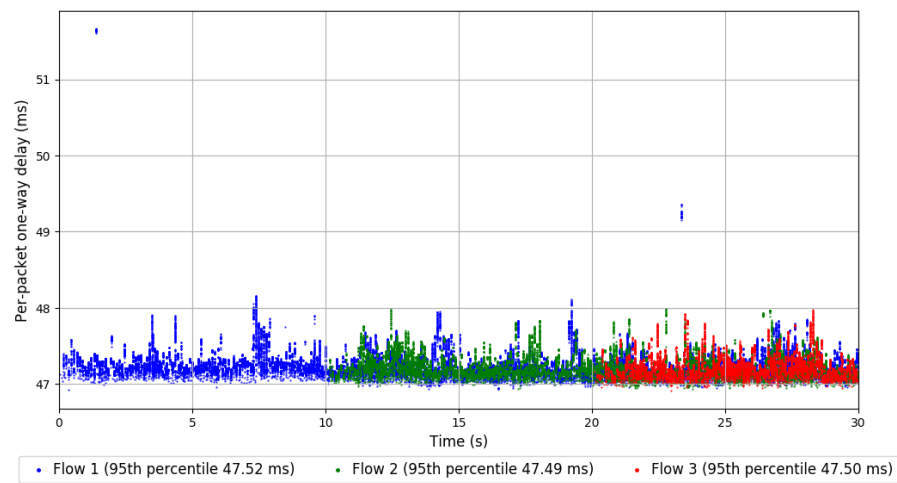
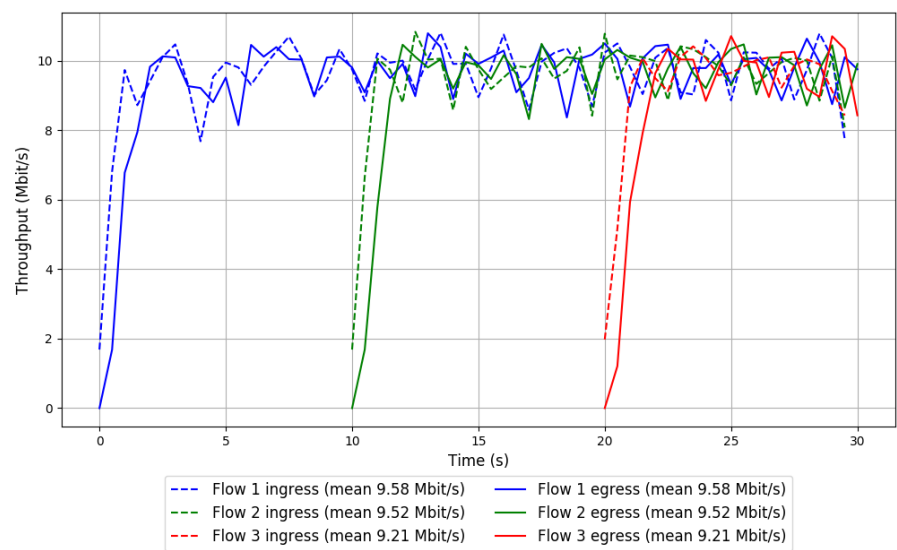


Run 5: Statistics of Sprout

Start at: 2019-01-03 23:03:29
End at: 2019-01-03 23:03:59
Local clock offset: 0.351 ms
Remote clock offset: -0.095 ms

Below is generated by plot.py at 2019-01-04 01:22:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.95 Mbit/s
95th percentile per-packet one-way delay: 47.505 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.58 Mbit/s
95th percentile per-packet one-way delay: 47.515 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 9.52 Mbit/s
95th percentile per-packet one-way delay: 47.495 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.21 Mbit/s
95th percentile per-packet one-way delay: 47.503 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

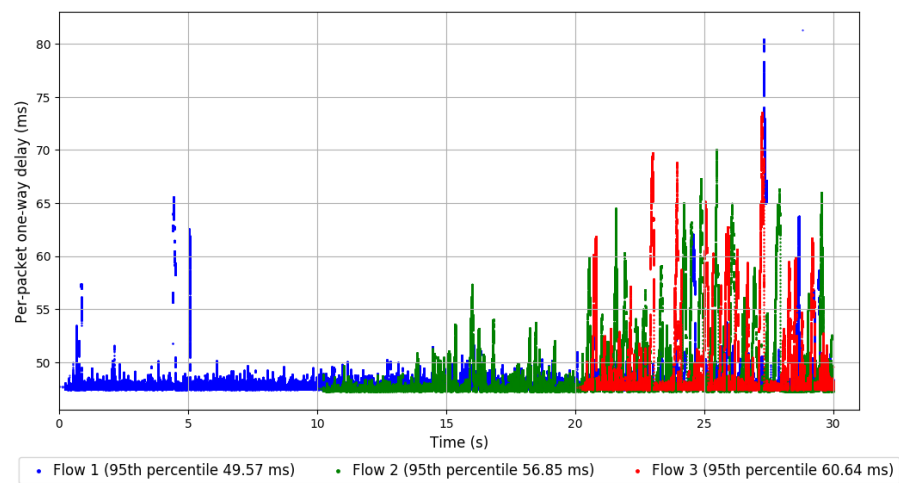
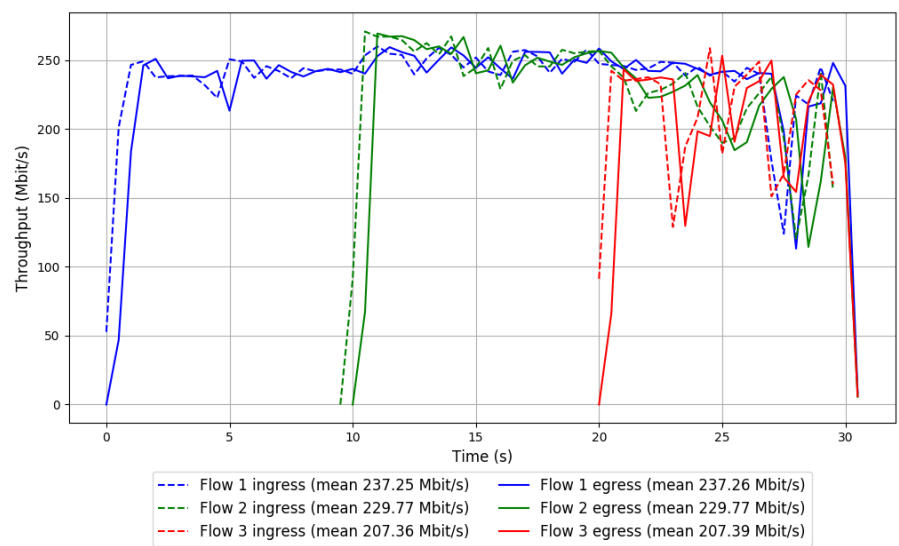


```
Run 1: Statistics of TaoVA-100x

Start at: 2019-01-03 20:39:32
End at: 2019-01-03 20:40:02
Local clock offset: -0.2 ms
Remote clock offset: 0.29 ms

# Below is generated by plot.py at 2019-01-04 01:25:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 459.24 Mbit/s
95th percentile per-packet one-way delay: 55.342 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 237.26 Mbit/s
95th percentile per-packet one-way delay: 49.572 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 229.77 Mbit/s
95th percentile per-packet one-way delay: 56.847 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 207.39 Mbit/s
95th percentile per-packet one-way delay: 60.638 ms
Loss rate: 0.00%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-01-03 21:11:50

End at: 2019-01-03 21:12:20

Local clock offset: -0.253 ms

Remote clock offset: 0.421 ms

Below is generated by plot.py at 2019-01-04 01:25:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 454.03 Mbit/s

95th percentile per-packet one-way delay: 54.050 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 236.11 Mbit/s

95th percentile per-packet one-way delay: 52.674 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 210.81 Mbit/s

95th percentile per-packet one-way delay: 58.043 ms

Loss rate: 0.00%

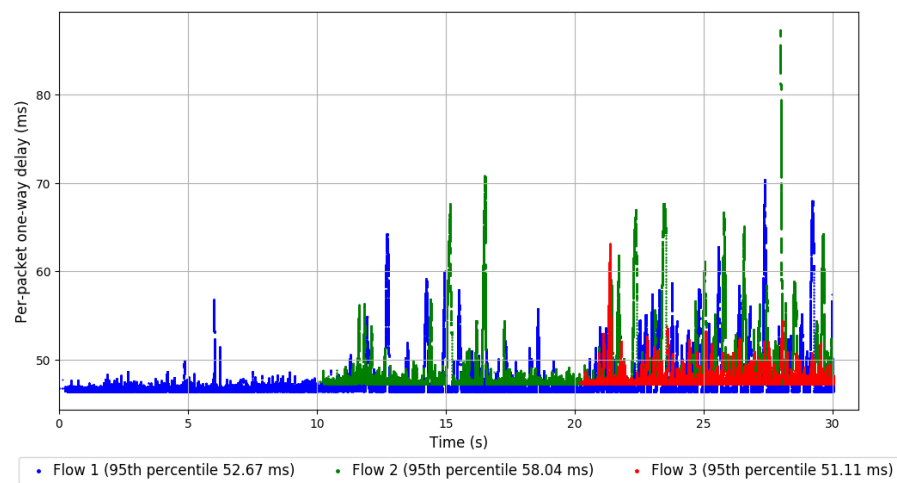
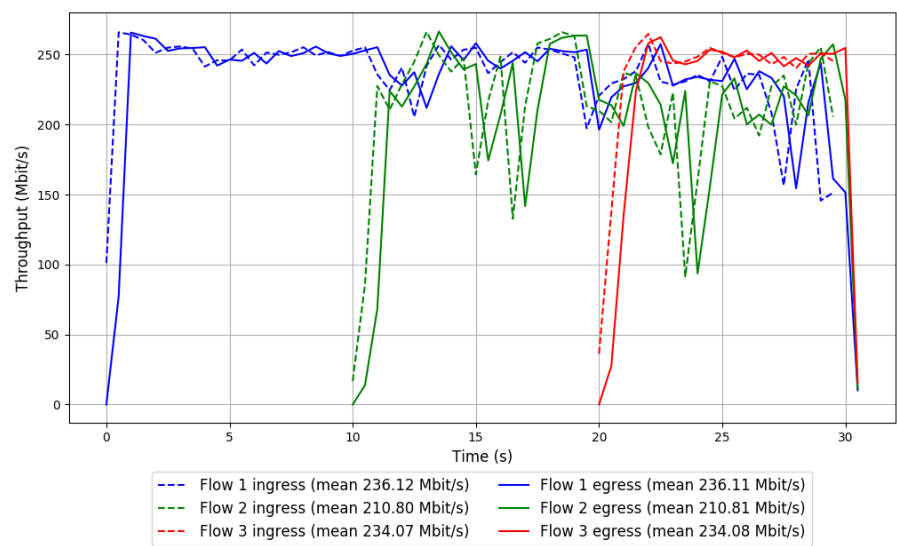
-- Flow 3:

Average throughput: 234.08 Mbit/s

95th percentile per-packet one-way delay: 51.111 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-01-03 21:43:58

End at: 2019-01-03 21:44:28

Local clock offset: -0.273 ms

Remote clock offset: 0.554 ms

Below is generated by plot.py at 2019-01-04 01:26:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 480.67 Mbit/s

95th percentile per-packet one-way delay: 50.442 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 250.33 Mbit/s

95th percentile per-packet one-way delay: 49.845 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 241.35 Mbit/s

95th percentile per-packet one-way delay: 48.955 ms

Loss rate: 0.01%

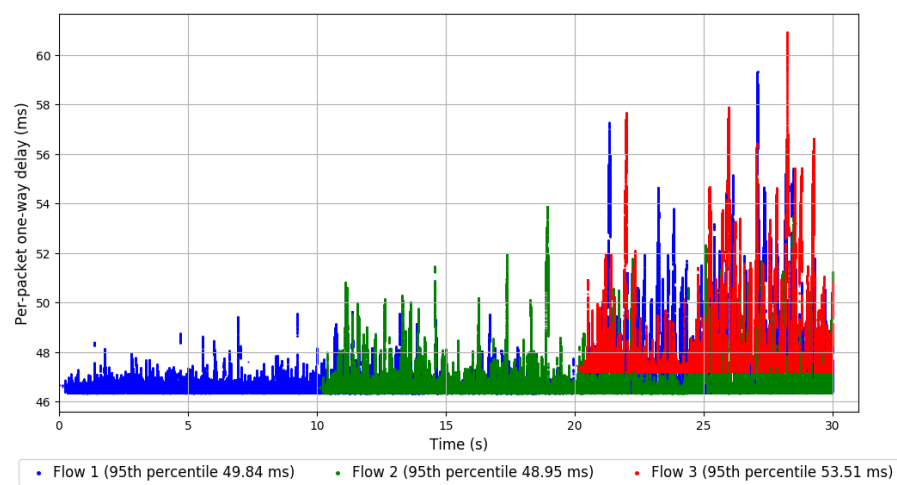
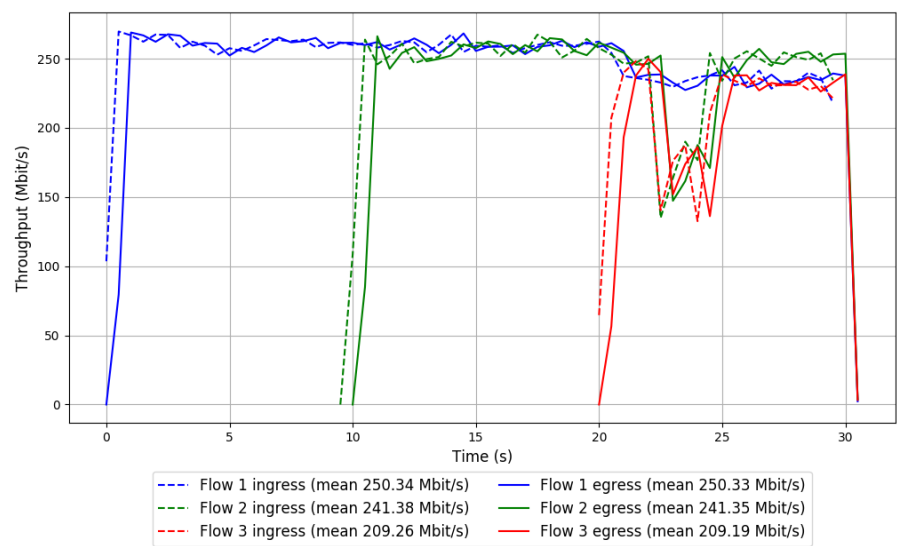
-- Flow 3:

Average throughput: 209.19 Mbit/s

95th percentile per-packet one-way delay: 53.512 ms

Loss rate: 0.02%

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

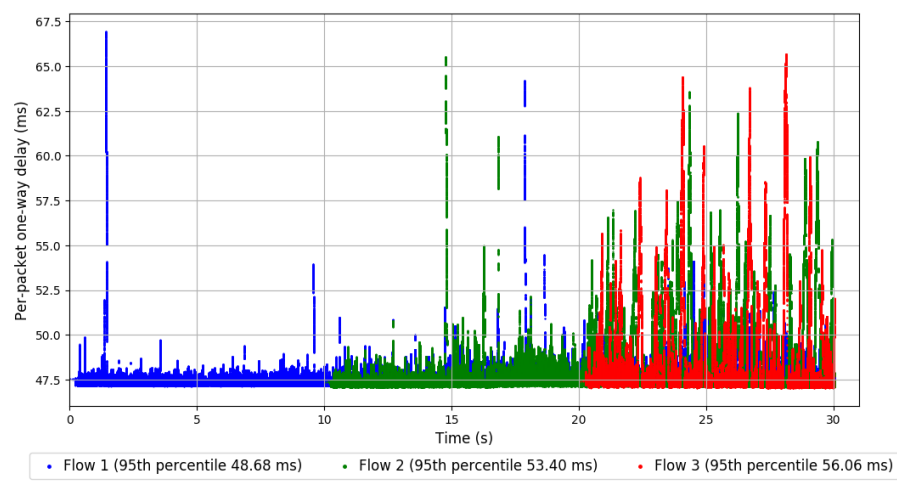
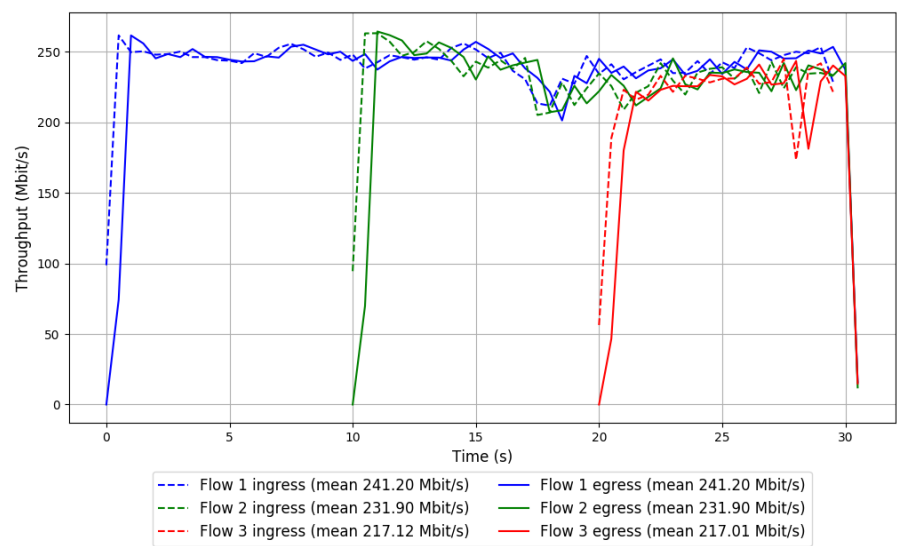


Run 4: Statistics of TaoVA-100x

Start at: 2019-01-03 22:15:43
End at: 2019-01-03 22:16:13
Local clock offset: 0.058 ms
Remote clock offset: -0.117 ms

Below is generated by plot.py at 2019-01-04 01:26:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 467.78 Mbit/s
95th percentile per-packet one-way delay: 51.669 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 241.20 Mbit/s
95th percentile per-packet one-way delay: 48.684 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 231.90 Mbit/s
95th percentile per-packet one-way delay: 53.396 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 217.01 Mbit/s
95th percentile per-packet one-way delay: 56.063 ms
Loss rate: 0.03%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-01-03 22:47:46

End at: 2019-01-03 22:48:16

Local clock offset: -0.078 ms

Remote clock offset: -0.15 ms

Below is generated by plot.py at 2019-01-04 01:27:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 480.91 Mbit/s

95th percentile per-packet one-way delay: 48.770 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 244.08 Mbit/s

95th percentile per-packet one-way delay: 48.676 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 235.28 Mbit/s

95th percentile per-packet one-way delay: 48.742 ms

Loss rate: 0.00%

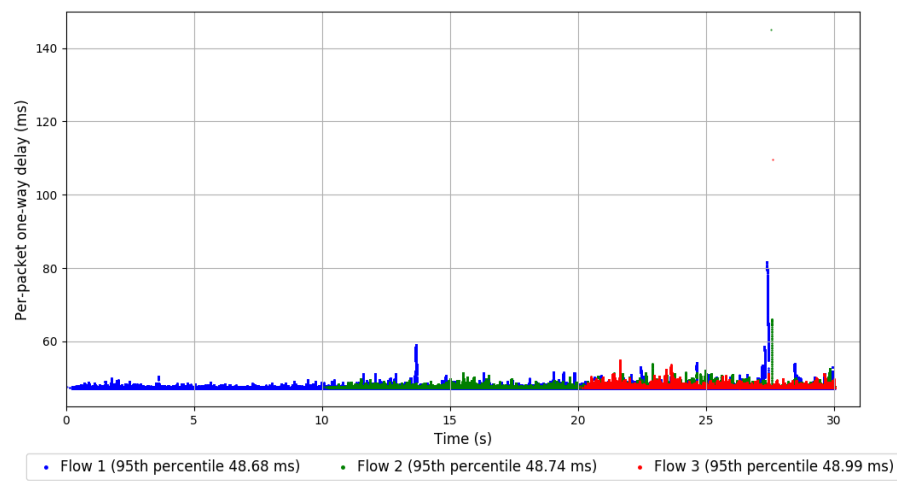
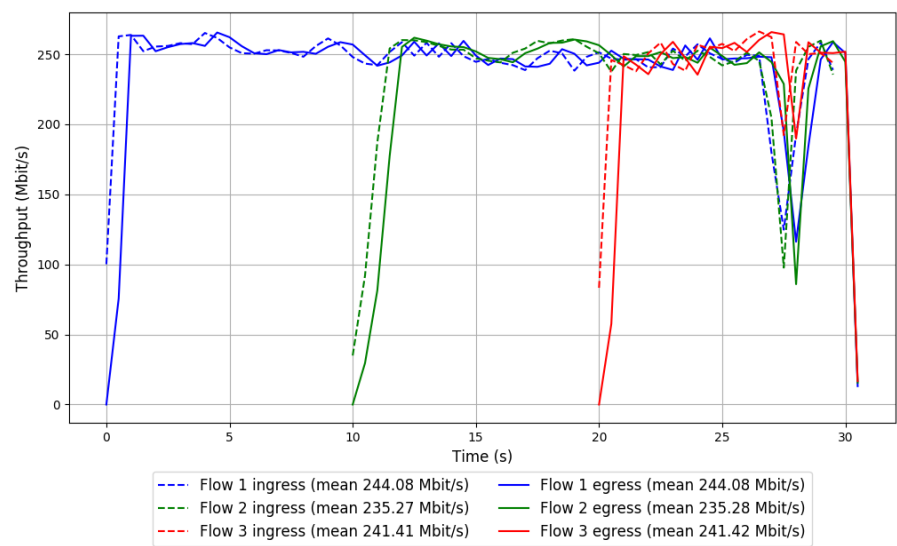
-- Flow 3:

Average throughput: 241.42 Mbit/s

95th percentile per-packet one-way delay: 48.989 ms

Loss rate: 0.00%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-01-03 20:37:35

End at: 2019-01-03 20:38:05

Local clock offset: -0.218 ms

Remote clock offset: 0.219 ms

Below is generated by plot.py at 2019-01-04 01:27:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 921.20 Mbit/s

95th percentile per-packet one-way delay: 116.947 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 500.57 Mbit/s

95th percentile per-packet one-way delay: 96.736 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 488.11 Mbit/s

95th percentile per-packet one-way delay: 121.759 ms

Loss rate: 0.21%

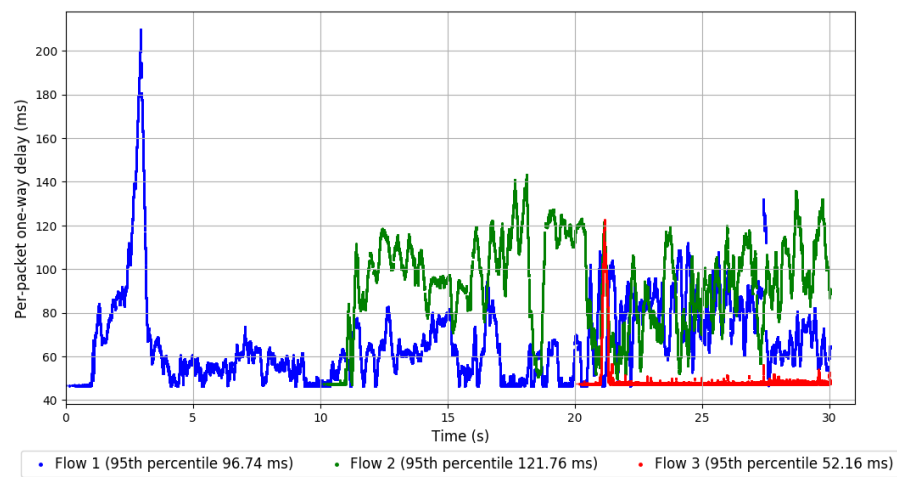
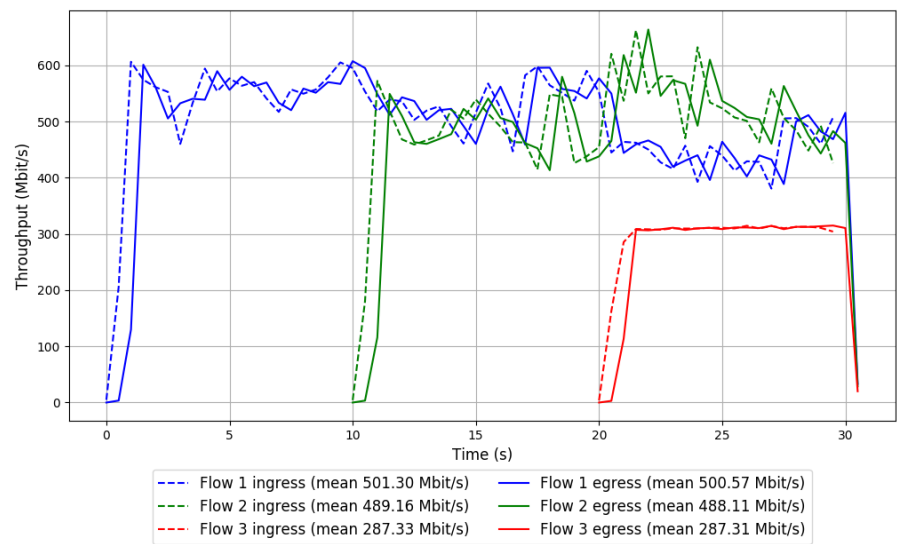
-- Flow 3:

Average throughput: 287.31 Mbit/s

95th percentile per-packet one-way delay: 52.155 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-01-03 21:09:52

End at: 2019-01-03 21:10:22

Local clock offset: -0.216 ms

Remote clock offset: 0.416 ms

Below is generated by plot.py at 2019-01-04 01:37:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 956.69 Mbit/s

95th percentile per-packet one-way delay: 102.876 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 488.90 Mbit/s

95th percentile per-packet one-way delay: 92.172 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 479.61 Mbit/s

95th percentile per-packet one-way delay: 102.837 ms

Loss rate: 0.09%

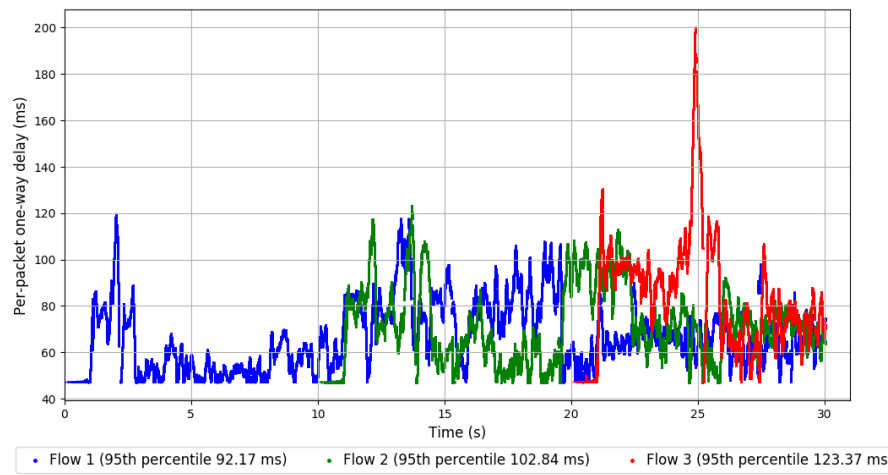
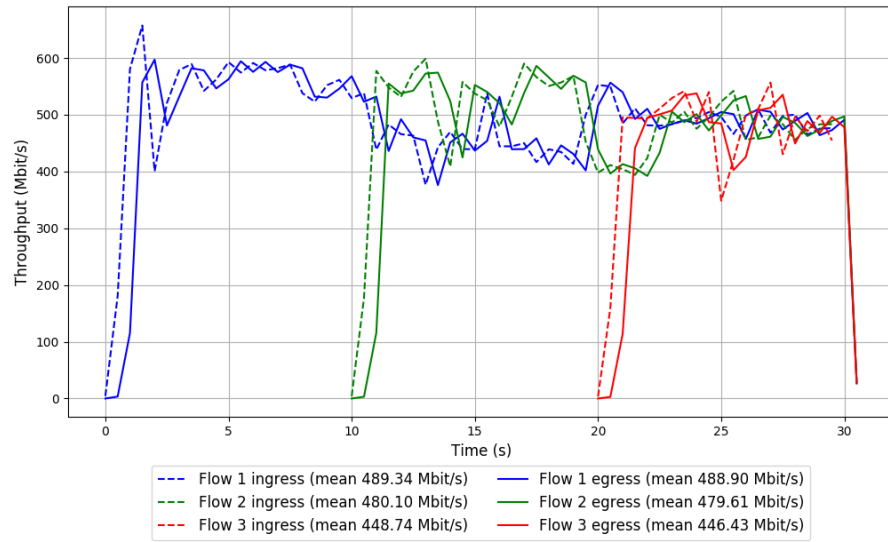
-- Flow 3:

Average throughput: 446.43 Mbit/s

95th percentile per-packet one-way delay: 123.367 ms

Loss rate: 0.51%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-01-03 21:42:01

End at: 2019-01-03 21:42:31

Local clock offset: -0.297 ms

Remote clock offset: 0.562 ms

Below is generated by plot.py at 2019-01-04 01:40:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 954.93 Mbit/s

95th percentile per-packet one-way delay: 89.261 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 496.75 Mbit/s

95th percentile per-packet one-way delay: 91.775 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 454.55 Mbit/s

95th percentile per-packet one-way delay: 89.979 ms

Loss rate: 0.13%

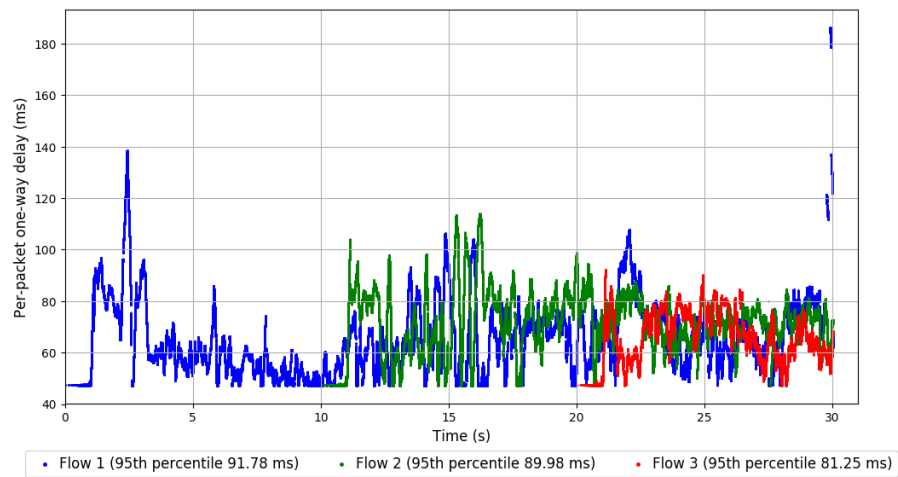
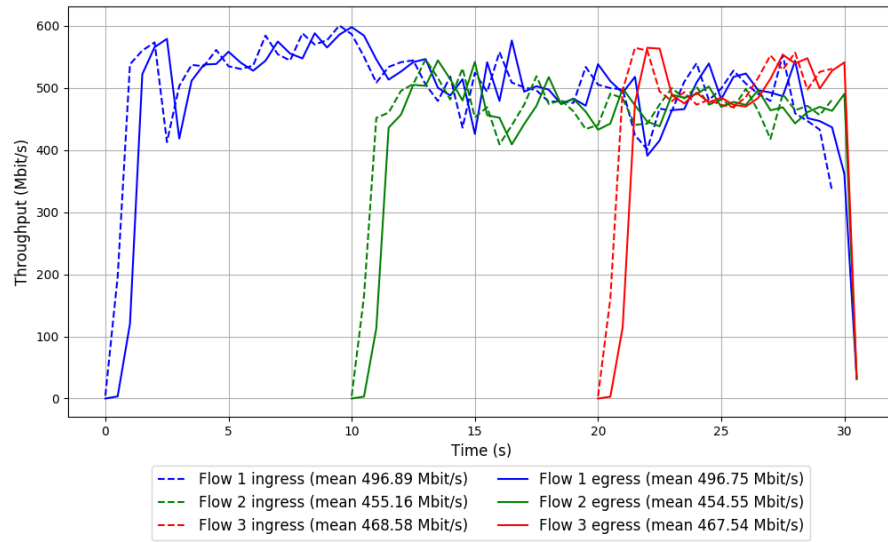
-- Flow 3:

Average throughput: 467.54 Mbit/s

95th percentile per-packet one-way delay: 81.255 ms

Loss rate: 0.21%

Run 3: Report of TCP Vegas — Data Link

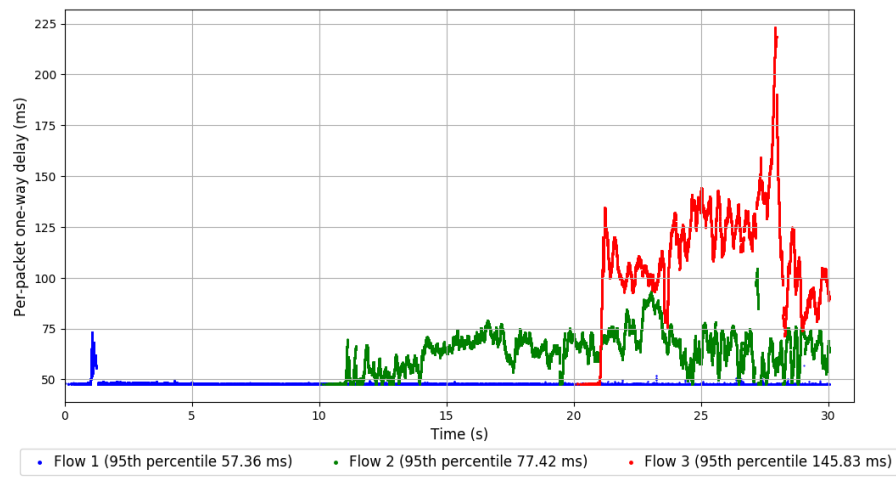
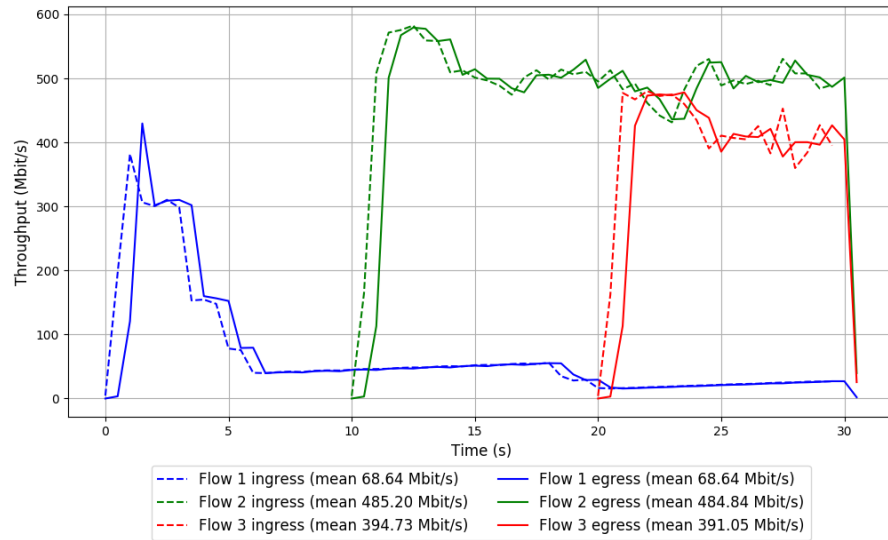


Run 4: Statistics of TCP Vegas

Start at: 2019-01-03 22:14:06
End at: 2019-01-03 22:14:36
Local clock offset: -0.701 ms
Remote clock offset: -0.104 ms

Below is generated by plot.py at 2019-01-04 01:40:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 521.70 Mbit/s
95th percentile per-packet one-way delay: 130.556 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 68.64 Mbit/s
95th percentile per-packet one-way delay: 57.362 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 484.84 Mbit/s
95th percentile per-packet one-way delay: 77.419 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 391.05 Mbit/s
95th percentile per-packet one-way delay: 145.829 ms
Loss rate: 0.93%

Run 4: Report of TCP Vegas — Data Link

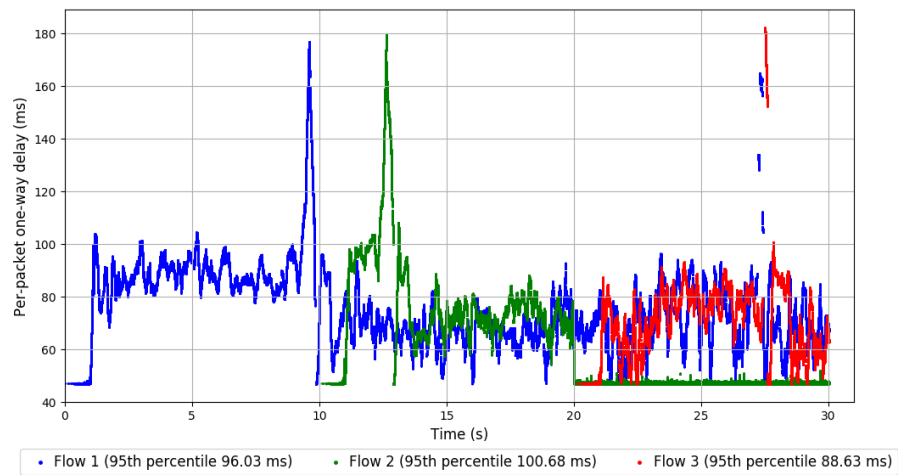
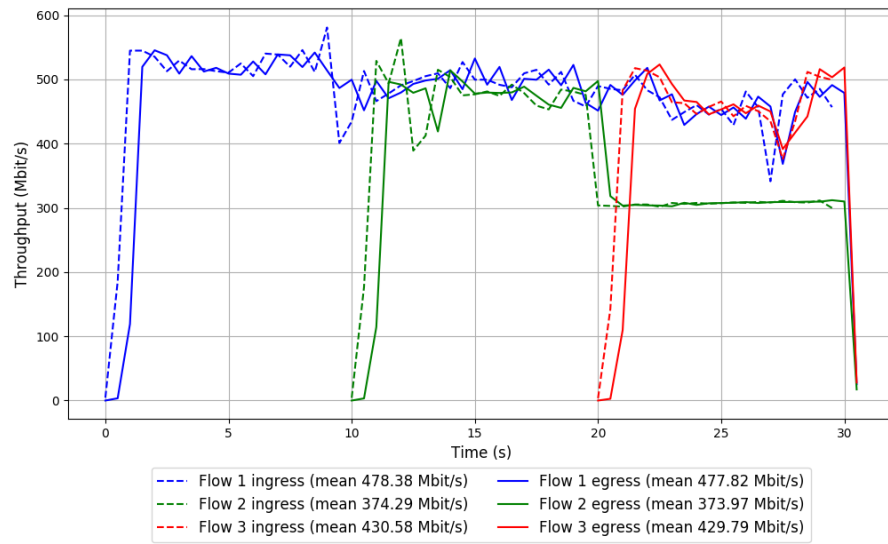


Run 5: Statistics of TCP Vegas

Start at: 2019-01-03 22:45:53
End at: 2019-01-03 22:46:23
Local clock offset: 0.291 ms
Remote clock offset: -0.119 ms

```
# Below is generated by plot.py at 2019-01-04 01:41:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 869.63 Mbit/s
95th percentile per-packet one-way delay: 96.562 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 477.82 Mbit/s
95th percentile per-packet one-way delay: 96.027 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 373.97 Mbit/s
95th percentile per-packet one-way delay: 100.683 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 429.79 Mbit/s
95th percentile per-packet one-way delay: 88.634 ms
Loss rate: 0.18%
```

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-01-03 20:43:10

End at: 2019-01-03 20:43:40

Local clock offset: -0.196 ms

Remote clock offset: 0.317 ms

Below is generated by plot.py at 2019-01-04 01:41:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 254.65 Mbit/s

95th percentile per-packet one-way delay: 134.495 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 147.63 Mbit/s

95th percentile per-packet one-way delay: 144.109 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 124.92 Mbit/s

95th percentile per-packet one-way delay: 122.348 ms

Loss rate: 0.00%

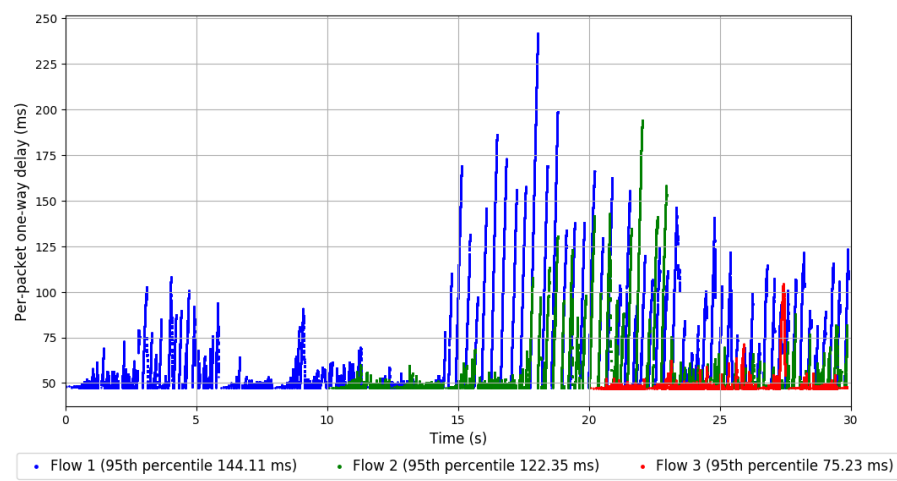
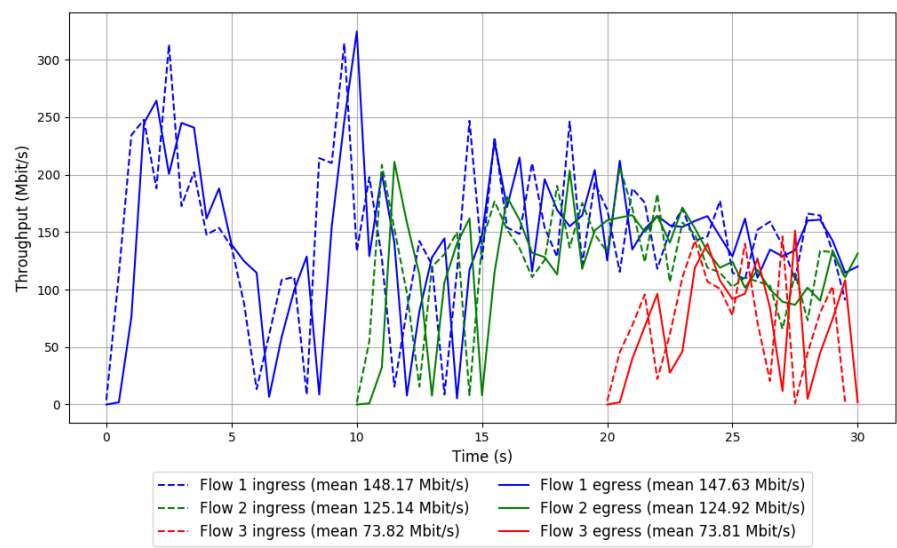
-- Flow 3:

Average throughput: 73.81 Mbit/s

95th percentile per-packet one-way delay: 75.232 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link

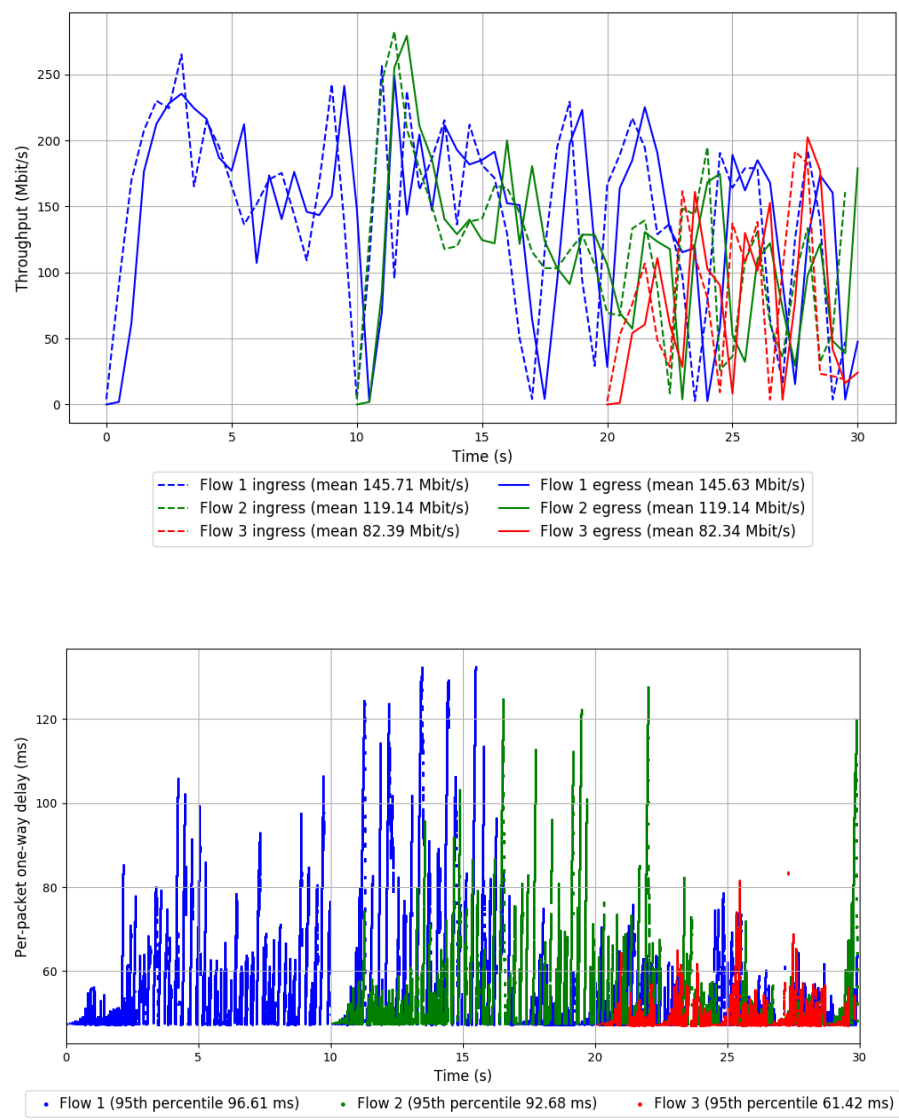


Run 2: Statistics of Verus

Start at: 2019-01-03 21:15:31
End at: 2019-01-03 21:16:01
Local clock offset: -0.266 ms
Remote clock offset: 0.425 ms

Below is generated by plot.py at 2019-01-04 01:41:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 251.69 Mbit/s
95th percentile per-packet one-way delay: 93.896 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 145.63 Mbit/s
95th percentile per-packet one-way delay: 96.605 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 119.14 Mbit/s
95th percentile per-packet one-way delay: 92.676 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 82.34 Mbit/s
95th percentile per-packet one-way delay: 61.422 ms
Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-01-03 21:47:43

End at: 2019-01-03 21:48:13

Local clock offset: -0.336 ms

Remote clock offset: 0.553 ms

Below is generated by plot.py at 2019-01-04 01:41:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 277.93 Mbit/s

95th percentile per-packet one-way delay: 166.931 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 143.23 Mbit/s

95th percentile per-packet one-way delay: 143.702 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 163.07 Mbit/s

95th percentile per-packet one-way delay: 188.708 ms

Loss rate: 2.42%

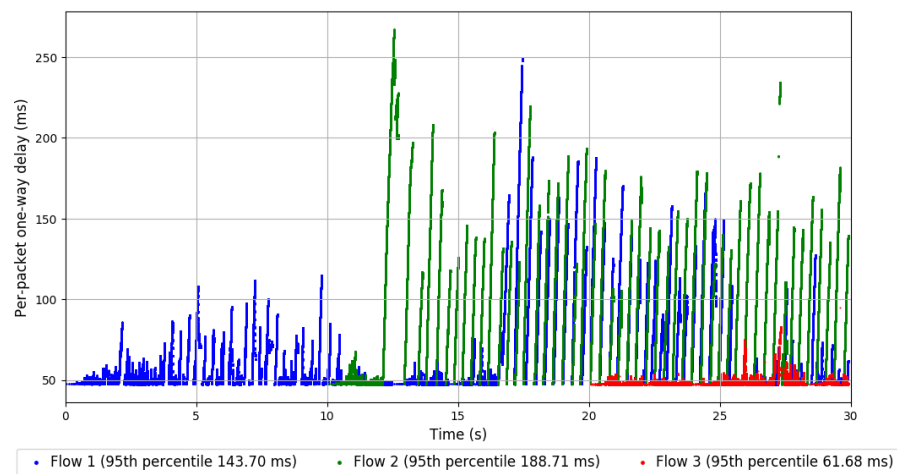
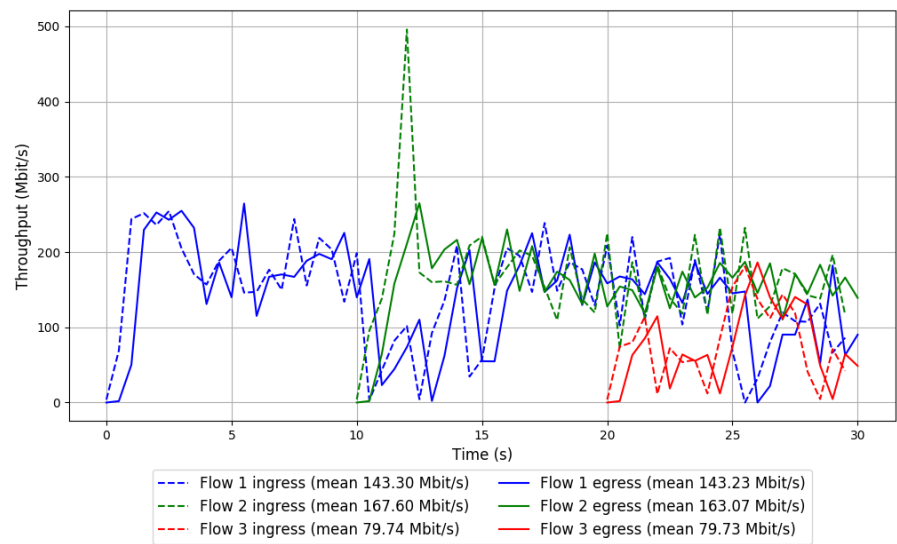
-- Flow 3:

Average throughput: 79.73 Mbit/s

95th percentile per-packet one-way delay: 61.680 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link

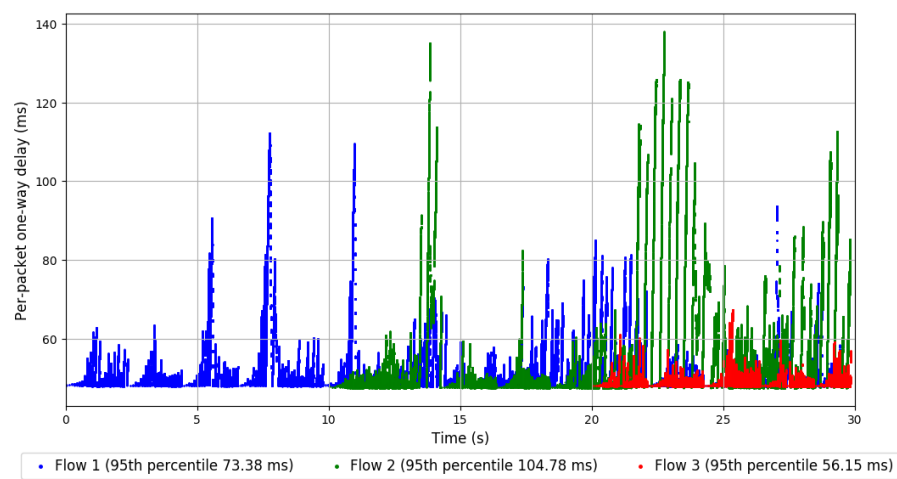
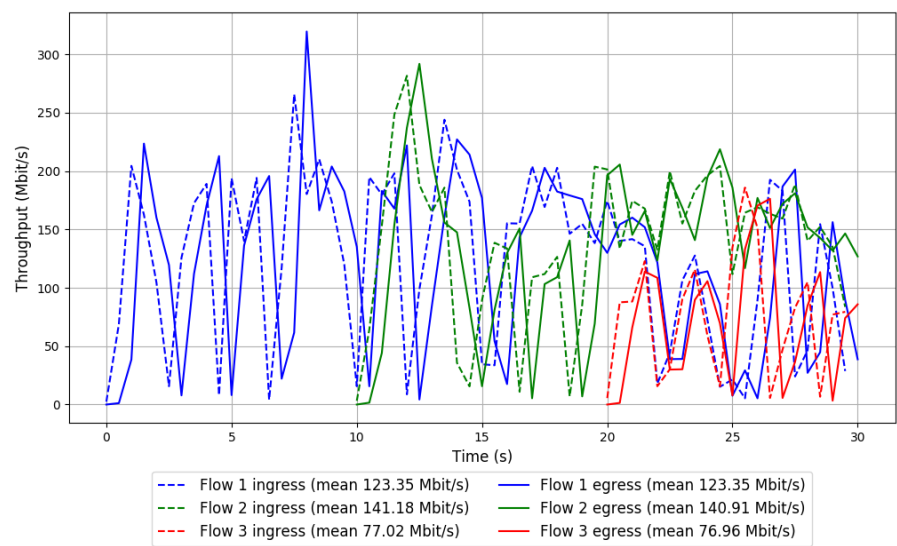


Run 4: Statistics of Verus

Start at: 2019-01-03 22:19:25
End at: 2019-01-03 22:19:55
Local clock offset: -0.689 ms
Remote clock offset: -0.172 ms

Below is generated by plot.py at 2019-01-04 01:41:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 242.03 Mbit/s
95th percentile per-packet one-way delay: 88.298 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 123.35 Mbit/s
95th percentile per-packet one-way delay: 73.378 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 140.91 Mbit/s
95th percentile per-packet one-way delay: 104.784 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 76.96 Mbit/s
95th percentile per-packet one-way delay: 56.150 ms
Loss rate: 0.00%

Run 4: Report of Verus — Data Link

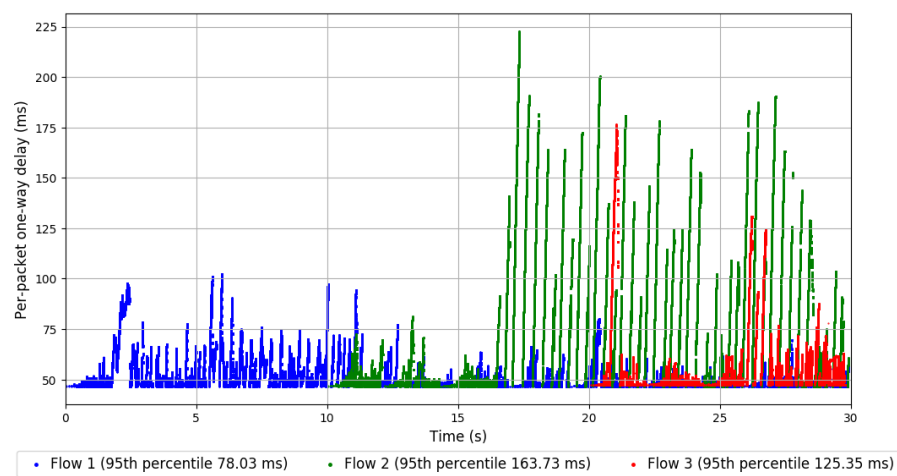
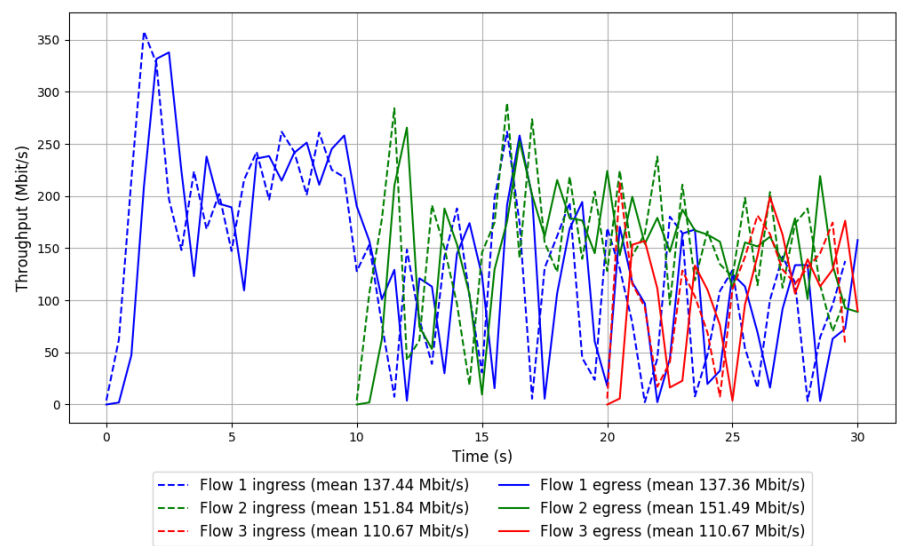


Run 5: Statistics of Verus

Start at: 2019-01-03 22:51:33
End at: 2019-01-03 22:52:03
Local clock offset: -0.114 ms
Remote clock offset: -0.122 ms

Below is generated by plot.py at 2019-01-04 01:44:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 274.00 Mbit/s
95th percentile per-packet one-way delay: 137.648 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 137.36 Mbit/s
95th percentile per-packet one-way delay: 78.029 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 151.49 Mbit/s
95th percentile per-packet one-way delay: 163.730 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 110.67 Mbit/s
95th percentile per-packet one-way delay: 125.346 ms
Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-01-03 20:47:40

End at: 2019-01-03 20:48:10

Local clock offset: -0.215 ms

Remote clock offset: 0.298 ms

Below is generated by plot.py at 2019-01-04 01:44:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 496.05 Mbit/s

95th percentile per-packet one-way delay: 54.609 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 310.85 Mbit/s

95th percentile per-packet one-way delay: 55.207 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 236.48 Mbit/s

95th percentile per-packet one-way delay: 55.178 ms

Loss rate: 0.00%

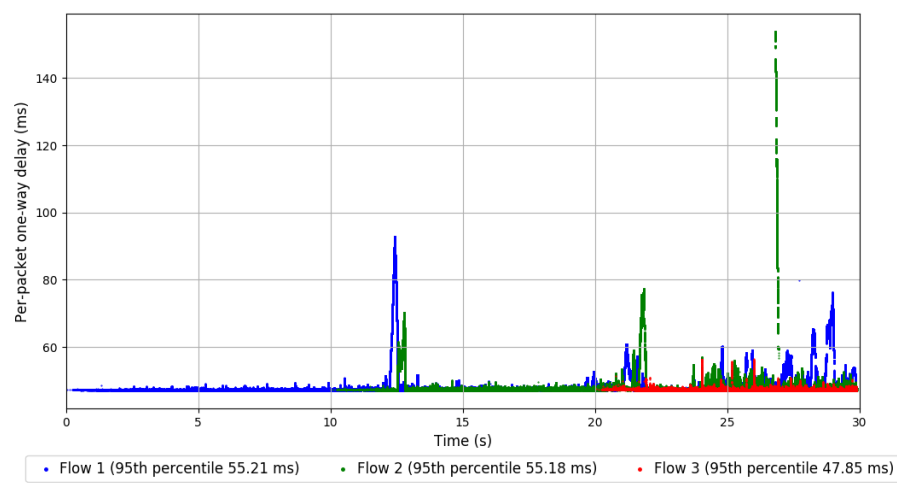
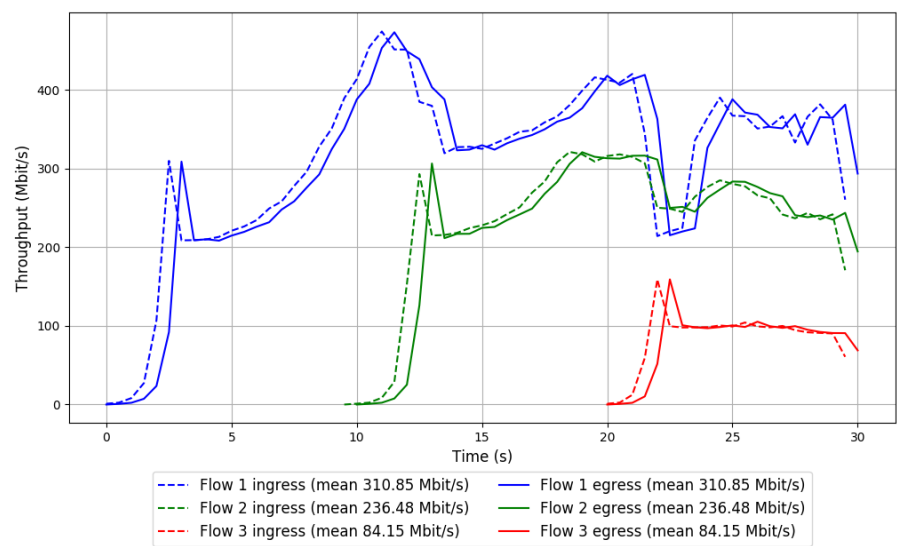
-- Flow 3:

Average throughput: 84.15 Mbit/s

95th percentile per-packet one-way delay: 47.847 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-01-03 21:20:01

End at: 2019-01-03 21:20:31

Local clock offset: -0.237 ms

Remote clock offset: 0.469 ms

Below is generated by plot.py at 2019-01-04 01:44:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 495.65 Mbit/s

95th percentile per-packet one-way delay: 55.856 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 279.14 Mbit/s

95th percentile per-packet one-way delay: 62.829 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 250.84 Mbit/s

95th percentile per-packet one-way delay: 52.544 ms

Loss rate: 0.00%

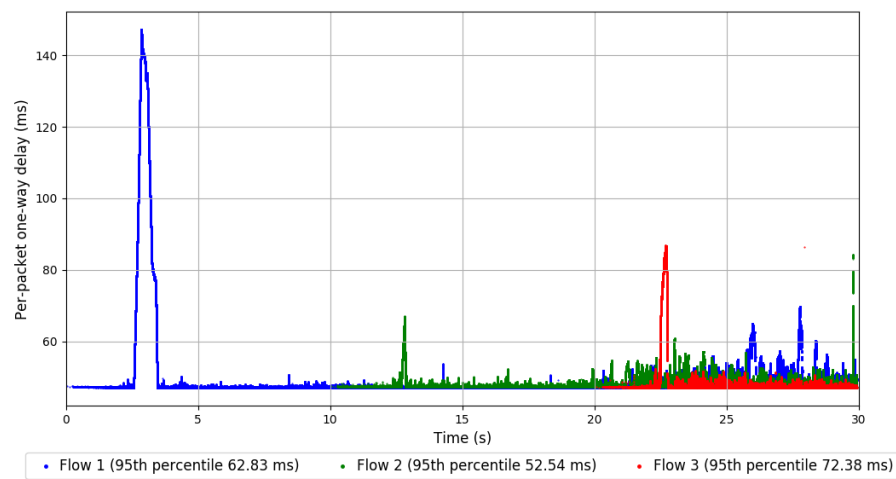
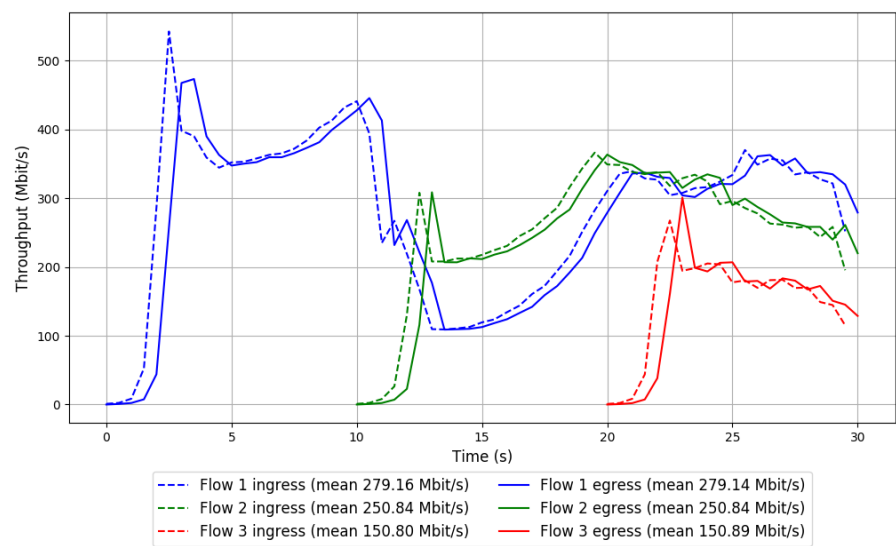
-- Flow 3:

Average throughput: 150.89 Mbit/s

95th percentile per-packet one-way delay: 72.380 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-01-03 21:52:16

End at: 2019-01-03 21:52:46

Local clock offset: -0.295 ms

Remote clock offset: 0.562 ms

Below is generated by plot.py at 2019-01-04 01:44:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 414.98 Mbit/s

95th percentile per-packet one-way delay: 53.235 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 252.82 Mbit/s

95th percentile per-packet one-way delay: 53.290 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 232.15 Mbit/s

95th percentile per-packet one-way delay: 53.430 ms

Loss rate: 0.00%

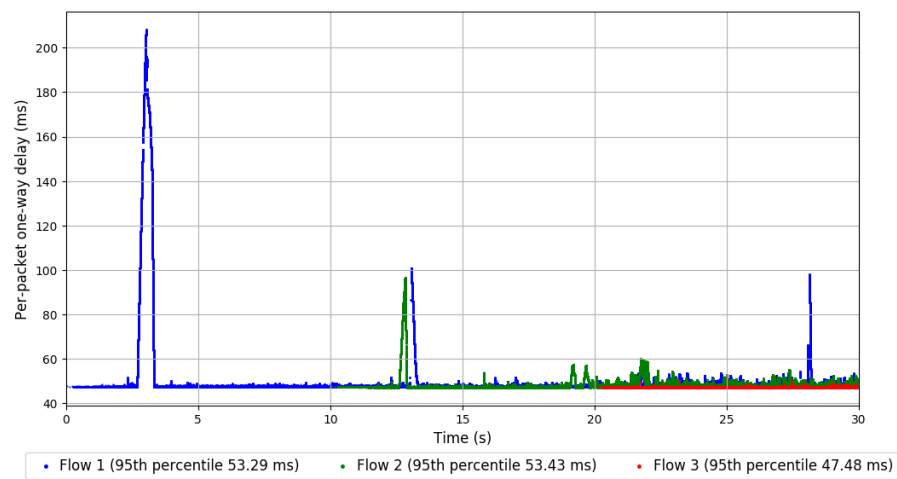
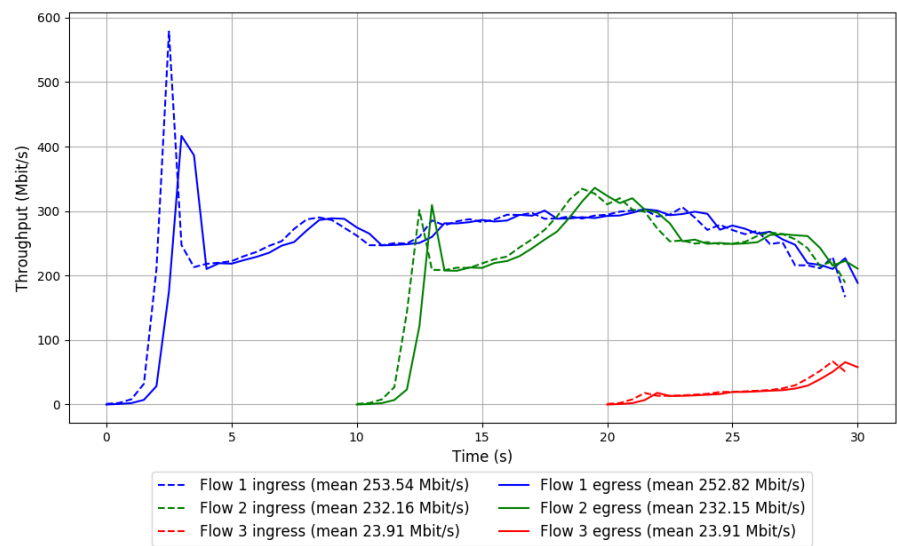
-- Flow 3:

Average throughput: 23.91 Mbit/s

95th percentile per-packet one-way delay: 47.482 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-01-03 22:23:56

End at: 2019-01-03 22:24:26

Local clock offset: -0.686 ms

Remote clock offset: -0.22 ms

Below is generated by plot.py at 2019-01-04 01:44:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 468.47 Mbit/s

95th percentile per-packet one-way delay: 98.871 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 259.89 Mbit/s

95th percentile per-packet one-way delay: 109.728 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 227.25 Mbit/s

95th percentile per-packet one-way delay: 86.024 ms

Loss rate: 0.00%

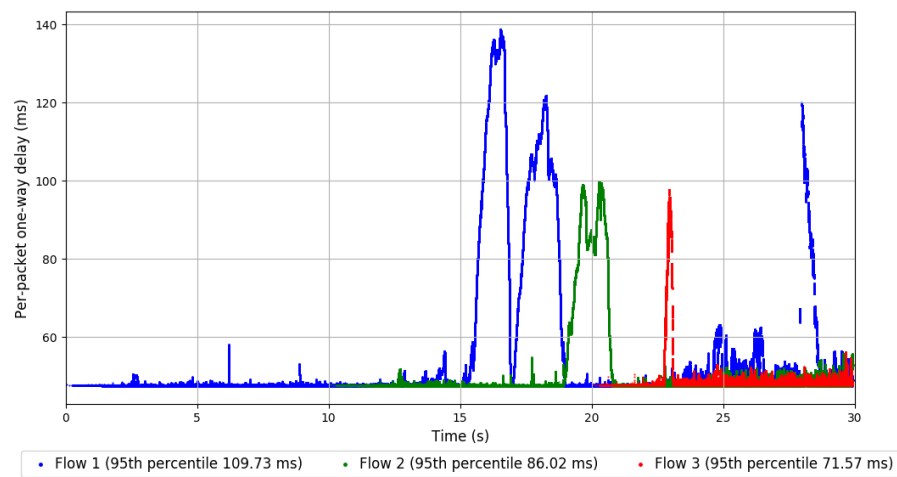
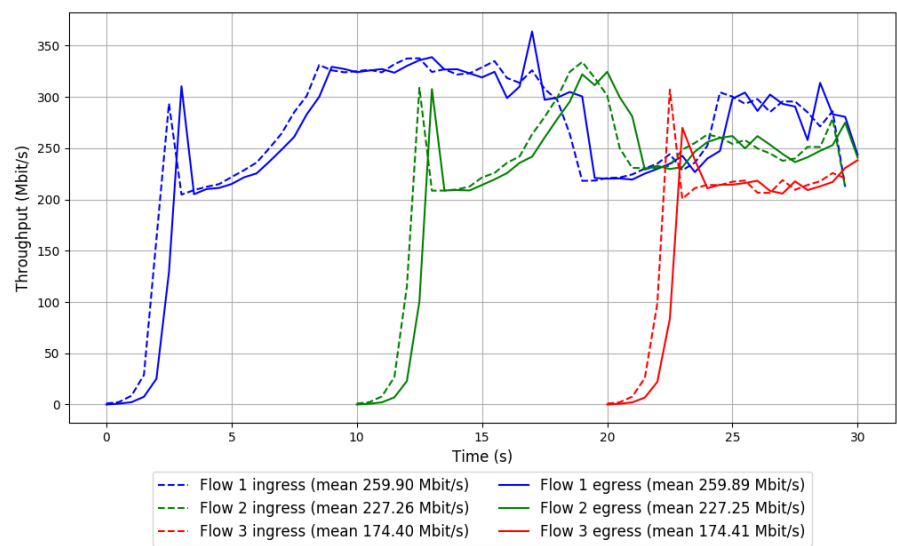
-- Flow 3:

Average throughput: 174.41 Mbit/s

95th percentile per-packet one-way delay: 71.569 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link

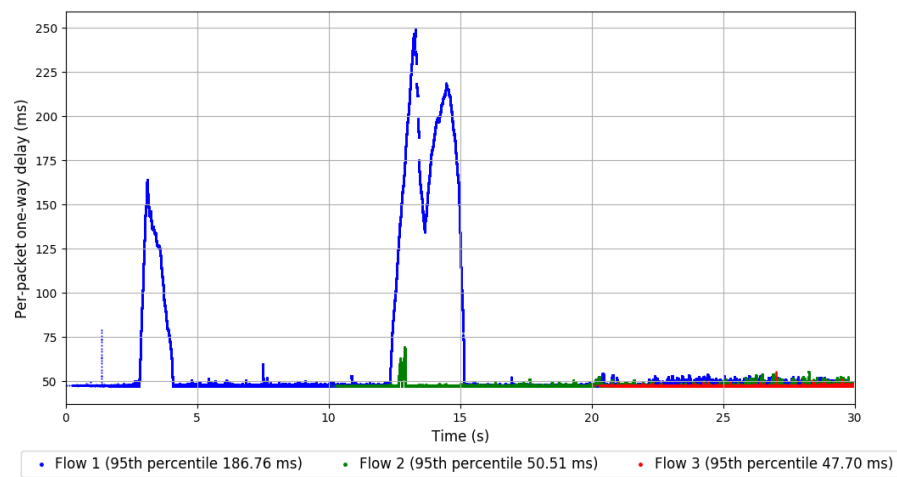
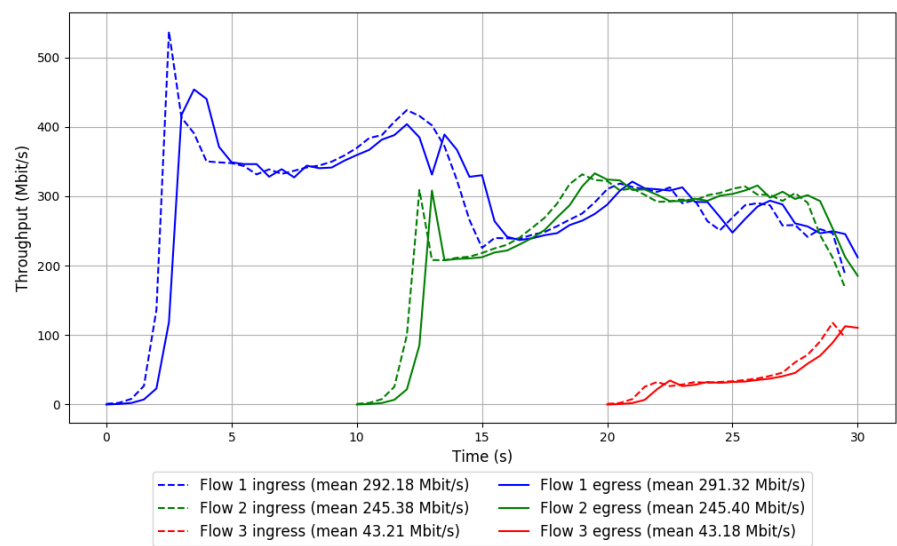


Run 5: Statistics of PCC-Vivace

Start at: 2019-01-03 22:56:06
End at: 2019-01-03 22:56:36
Local clock offset: -0.039 ms
Remote clock offset: -0.148 ms

Below is generated by plot.py at 2019-01-04 01:44:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 468.66 Mbit/s
95th percentile per-packet one-way delay: 154.720 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 291.32 Mbit/s
95th percentile per-packet one-way delay: 186.765 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 245.40 Mbit/s
95th percentile per-packet one-way delay: 50.508 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 43.18 Mbit/s
95th percentile per-packet one-way delay: 47.704 ms
Loss rate: 0.08%

Run 5: Report of PCC-Vivace — Data Link

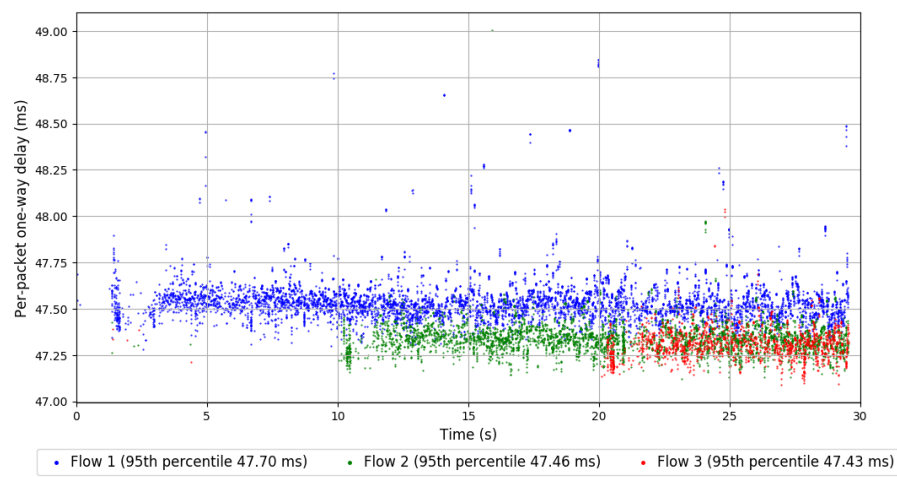
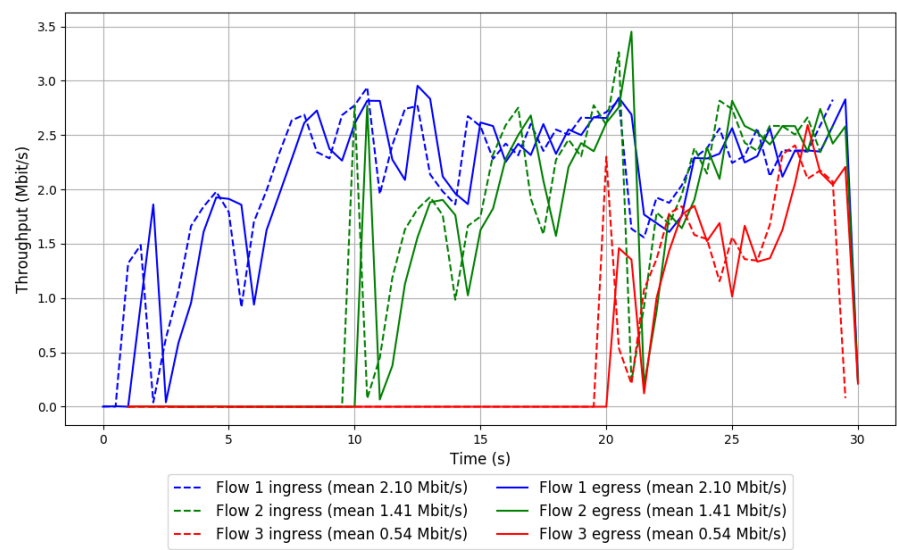


```
Run 1: Statistics of WebRTC media

Start at: 2019-01-03 20:28:33
End at: 2019-01-03 20:29:03
Local clock offset: -0.214 ms
Remote clock offset: 0.207 ms

# Below is generated by plot.py at 2019-01-04 01:44:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.97 Mbit/s
95th percentile per-packet one-way delay: 47.638 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 47.698 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 47.456 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 47.433 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-01-03 21:00:49

End at: 2019-01-03 21:01:19

Local clock offset: -0.256 ms

Remote clock offset: 0.359 ms

Below is generated by plot.py at 2019-01-04 01:44:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 47.505 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 47.438 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 46.753 ms

Loss rate: 0.00%

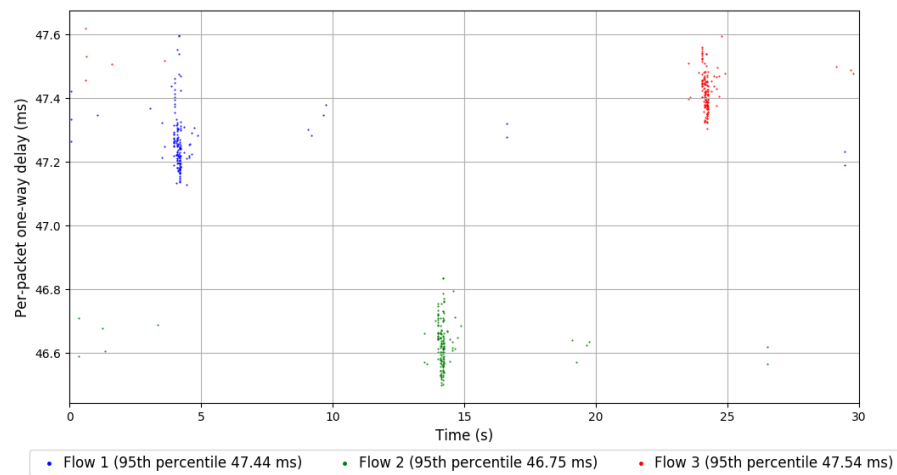
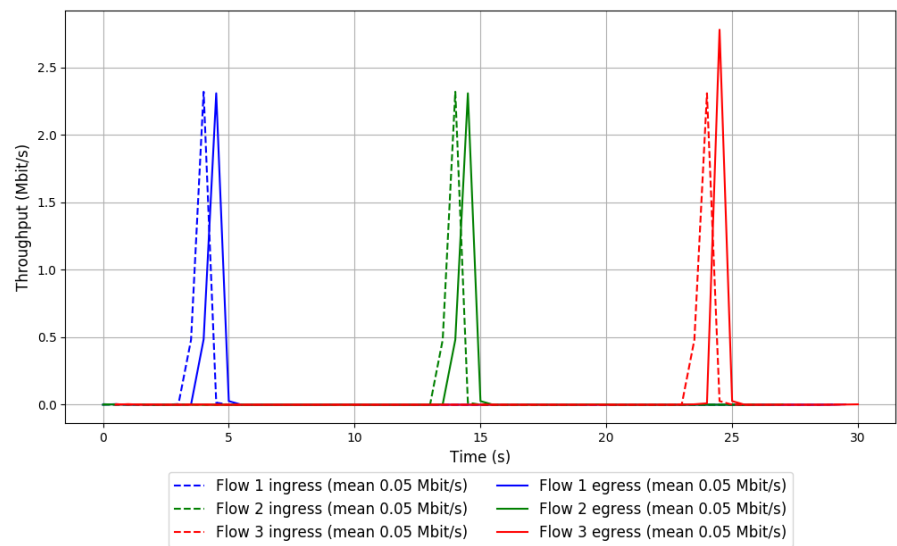
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 47.538 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-01-03 21:33:09

End at: 2019-01-03 21:33:39

Local clock offset: -0.665 ms

Remote clock offset: 0.507 ms

Below is generated by plot.py at 2019-01-04 01:44:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 47.855 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 47.857 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 47.826 ms

Loss rate: 0.00%

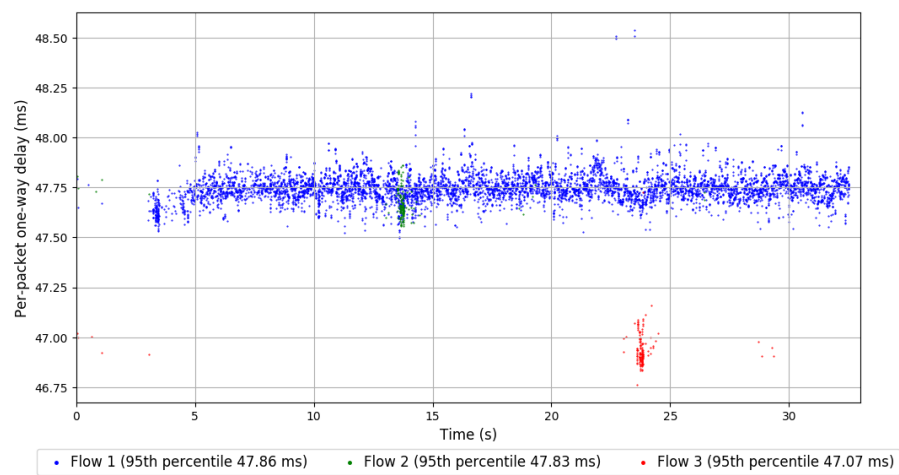
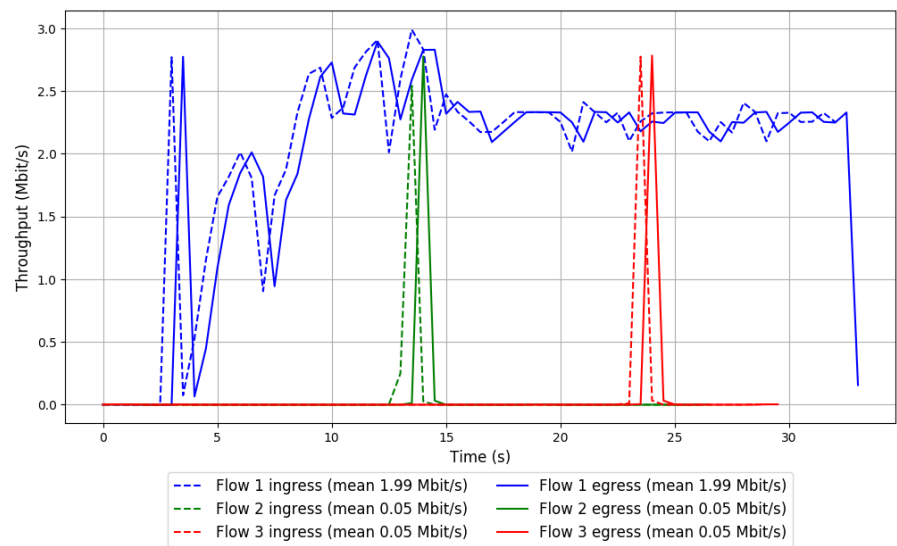
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 47.074 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-01-03 22:05:19

End at: 2019-01-03 22:05:49

Local clock offset: -0.313 ms

Remote clock offset: 0.006 ms

Below is generated by plot.py at 2019-01-04 01:44:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 47.382 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 47.487 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 46.783 ms

Loss rate: 0.00%

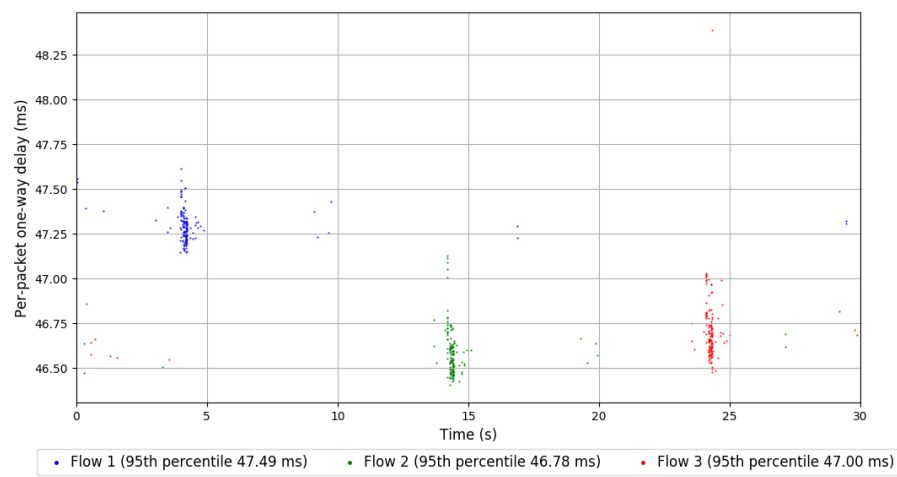
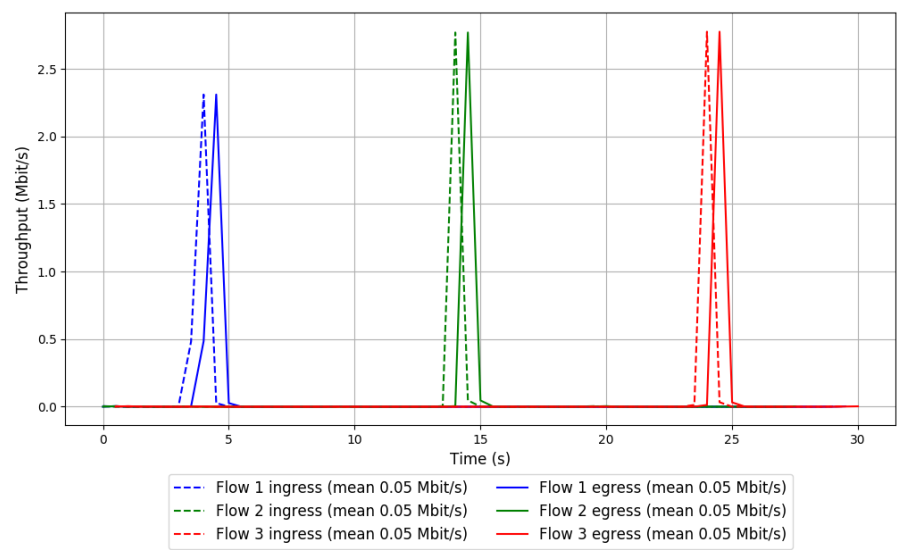
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 46.996 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-01-03 22:37:03
End at: 2019-01-03 22:37:33
Local clock offset: -0.16 ms
Remote clock offset: -0.141 ms

Below is generated by plot.py at 2019-01-04 01:44:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.51 Mbit/s
95th percentile per-packet one-way delay: 47.632 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 47.632 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 47.633 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.479 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

