

Pantheon Report

Generated at 2018-12-20 04:35:35 (UTC).

Data path: AWS California 1 on `ens5` (*local*) → Stanford on `eno1` (*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.stanford.edu` and have been applied to correct the timestamps in logs.

System info:

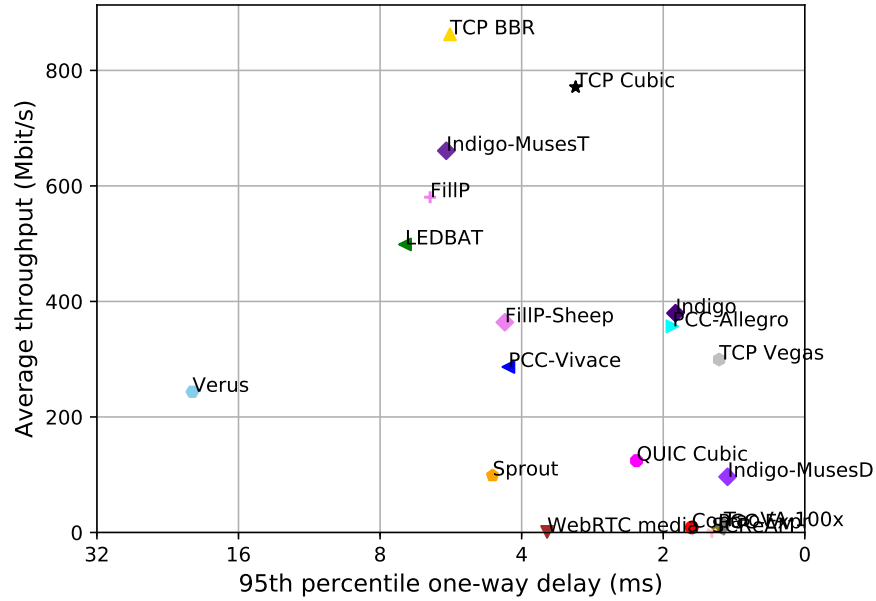
```
Linux 4.15.0-1029-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

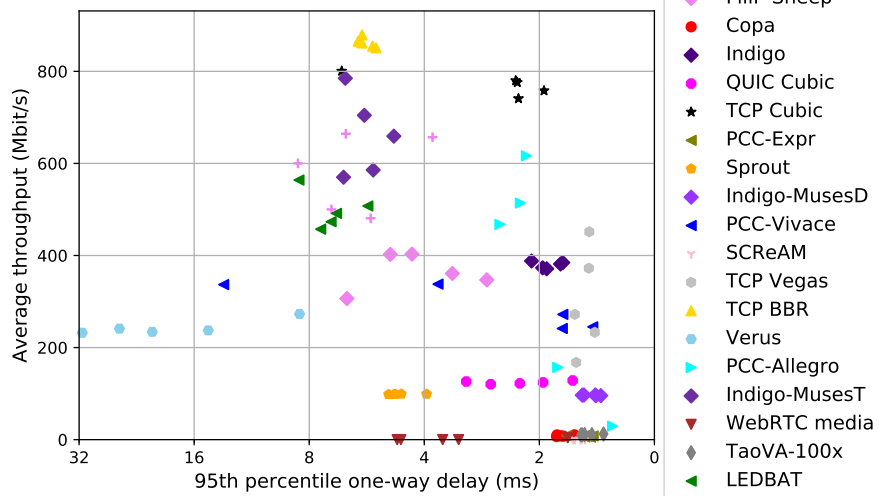
```
branch: muses @ c654af0b7d59d4ef4b914cfac404e1fc2e96dc68
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfc58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
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 AWS California 1 to Stanford, 5 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS California 1 to Stanford, 5 runs of 30s each per scheme
3 flows with 10s interval between flows



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	490.73	407.77	301.44	5.65	6.01	2.97	5.73	9.62	13.21
Copa	5	9.14	7.21	6.80	1.78	1.58	1.42	46.18	44.98	48.39
TCP Cubic	5	436.80	356.22	291.57	3.32	2.09	2.20	0.22	0.22	0.27
FillP	5	345.45	258.33	190.23	7.67	4.66	4.16	9.22	16.17	12.91
FillP-Sheep	5	311.17	64.63	29.85	4.63	1.99	2.40	3.76	4.24	6.29
Indigo	5	196.85	188.04	179.69	1.71	1.85	2.04	0.06	0.08	0.09
Indigo-MusesD	5	48.02	47.98	50.11	1.08	1.11	1.06	0.01	0.01	0.01
Indigo-MusesT	5	412.05	265.09	247.06	5.64	3.82	3.09	1.44	1.85	2.77
LEDBAT	5	270.19	247.64	202.05	7.50	6.45	5.80	0.25	0.31	0.36
PCC-Allegro	5	180.09	237.39	57.42	1.88	1.67	1.66	0.28	0.29	0.37
PCC-Expr	5	0.63	7.42	7.06	1.28	1.23	1.19	85.71	31.03	35.25
QUIC Cubic	5	67.07	59.79	53.34	1.62	2.12	5.55	0.01	0.02	0.04
SCReAM	5	0.22	0.22	0.22	1.34	1.29	1.32	0.00	0.00	0.00
Sprout	5	49.49	49.49	49.25	4.57	4.68	4.58	0.60	0.49	0.46
TaoVA-100x	5	5.34	7.08	6.72	1.20	1.08	1.10	53.23	56.95	66.77
TCP Vegas	5	122.72	156.24	218.40	1.20	1.15	1.38	0.04	0.04	0.06
Verus	5	124.48	118.98	121.29	18.03	17.01	44.85	4.33	4.84	6.77
PCC-Vivace	5	159.67	129.43	123.86	2.94	12.95	2.61	0.24	0.34	0.19
WebRTC media	5	0.48	0.32	0.15	3.74	3.69	3.13	0.00	0.01	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-12-20 01:55:41

End at: 2018-12-20 01:56:12

Local clock offset: 0.516 ms

Remote clock offset: 0.897 ms

Below is generated by plot.py at 2018-12-20 04:03:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 851.04 Mbit/s

95th percentile per-packet one-way delay: 5.349 ms

Loss rate: 7.85%

-- Flow 1:

Average throughput: 459.31 Mbit/s

95th percentile per-packet one-way delay: 5.406 ms

Loss rate: 6.01%

-- Flow 2:

Average throughput: 448.05 Mbit/s

95th percentile per-packet one-way delay: 5.426 ms

Loss rate: 8.66%

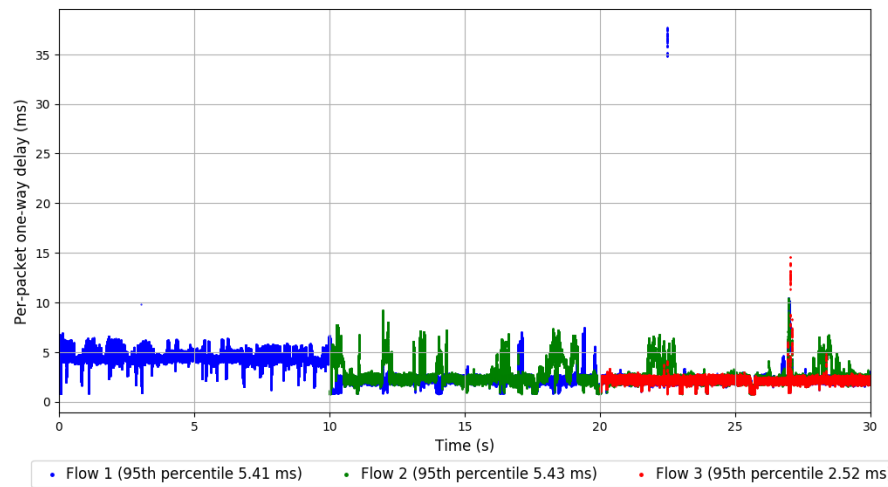
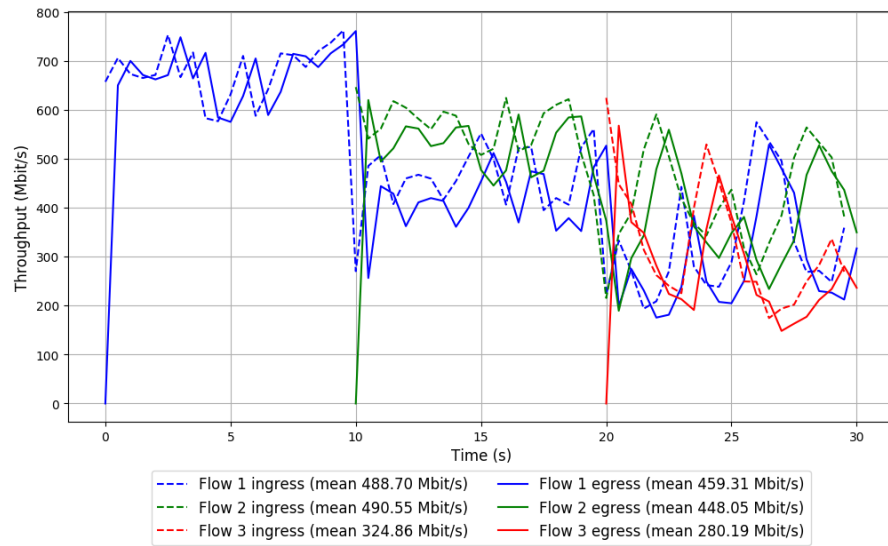
-- Flow 3:

Average throughput: 280.19 Mbit/s

95th percentile per-packet one-way delay: 2.521 ms

Loss rate: 13.74%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-12-20 02:22:34

End at: 2018-12-20 02:23:04

Local clock offset: 3.574 ms

Remote clock offset: 1.207 ms

Below is generated by plot.py at 2018-12-20 04:03:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 861.67 Mbit/s

95th percentile per-packet one-way delay: 5.821 ms

Loss rate: 7.77%

-- Flow 1:

Average throughput: 466.67 Mbit/s

95th percentile per-packet one-way delay: 5.761 ms

Loss rate: 5.84%

-- Flow 2:

Average throughput: 395.42 Mbit/s

95th percentile per-packet one-way delay: 6.368 ms

Loss rate: 9.38%

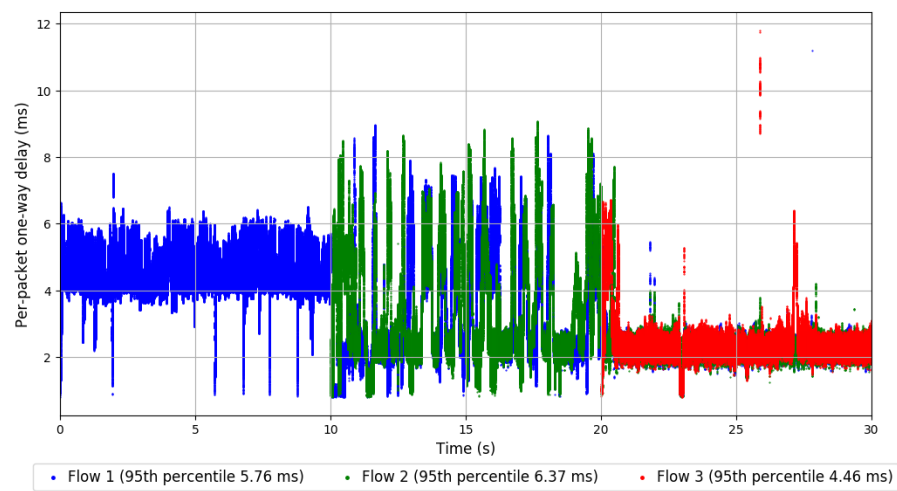
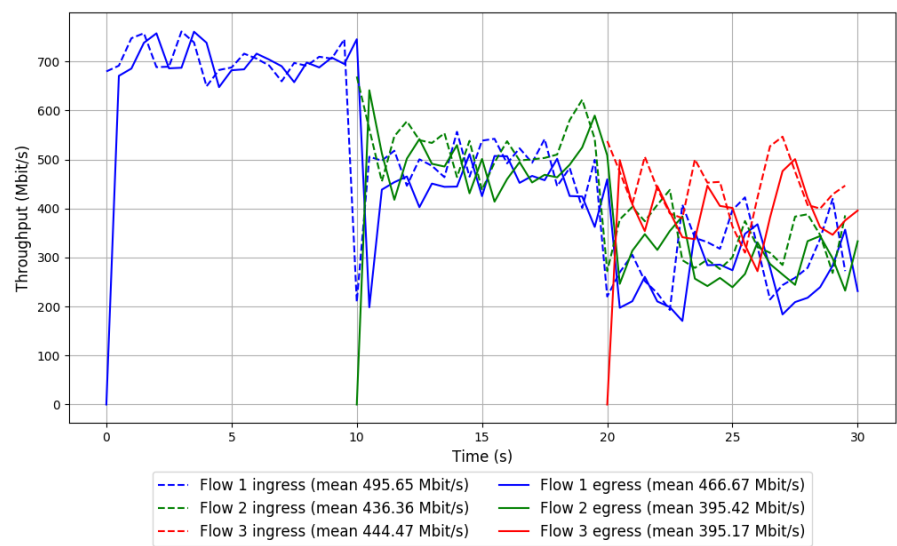
-- Flow 3:

Average throughput: 395.17 Mbit/s

95th percentile per-packet one-way delay: 4.460 ms

Loss rate: 11.09%

Run 2: Report of TCP BBR — Data Link

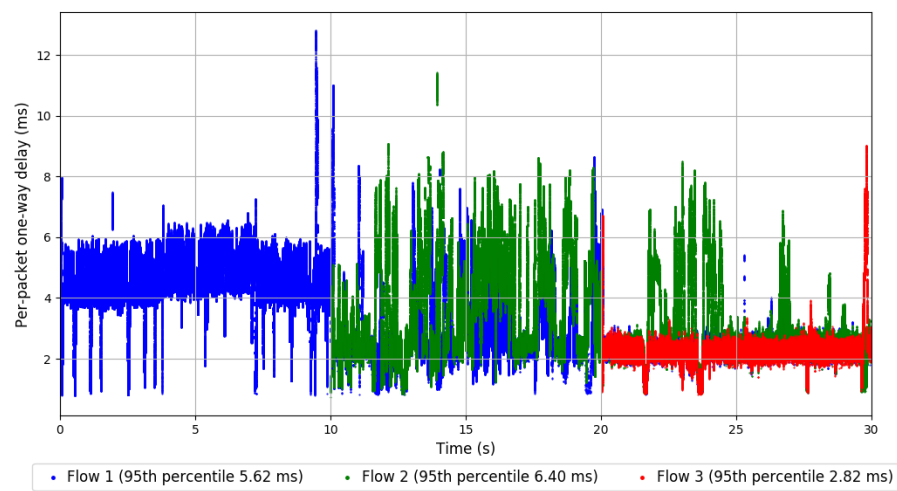
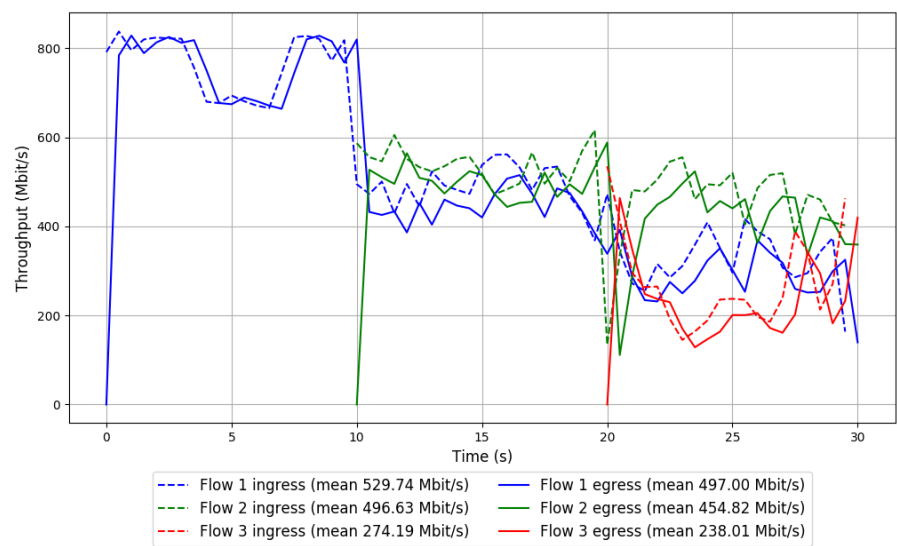


Run 3: Statistics of TCP BBR

Start at: 2018-12-20 02:49:31
End at: 2018-12-20 02:50:01
Local clock offset: 5.116 ms
Remote clock offset: -2.432 ms

Below is generated by plot.py at 2018-12-20 04:03:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 879.21 Mbit/s
95th percentile per-packet one-way delay: 5.818 ms
Loss rate: 7.63%
-- Flow 1:
Average throughput: 497.00 Mbit/s
95th percentile per-packet one-way delay: 5.622 ms
Loss rate: 6.18%
-- Flow 2:
Average throughput: 454.82 Mbit/s
95th percentile per-packet one-way delay: 6.404 ms
Loss rate: 8.41%
-- Flow 3:
Average throughput: 238.01 Mbit/s
95th percentile per-packet one-way delay: 2.817 ms
Loss rate: 13.19%

Run 3: Report of TCP BBR — Data Link

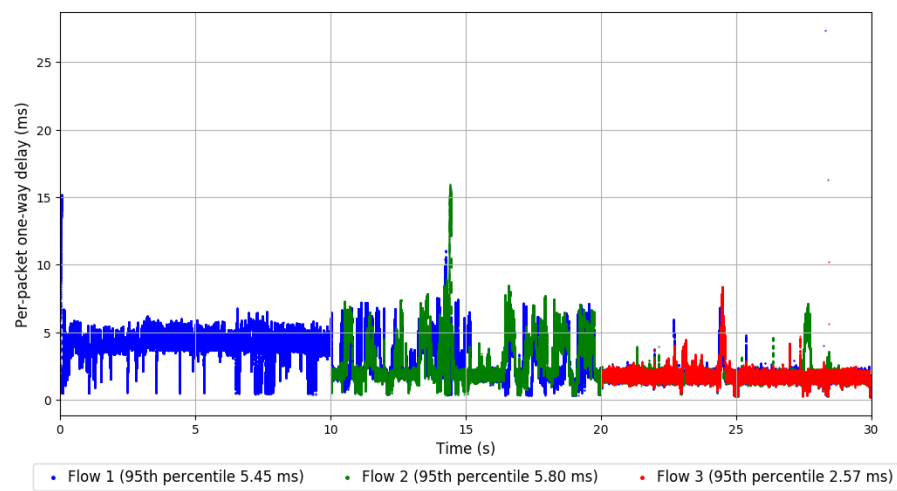
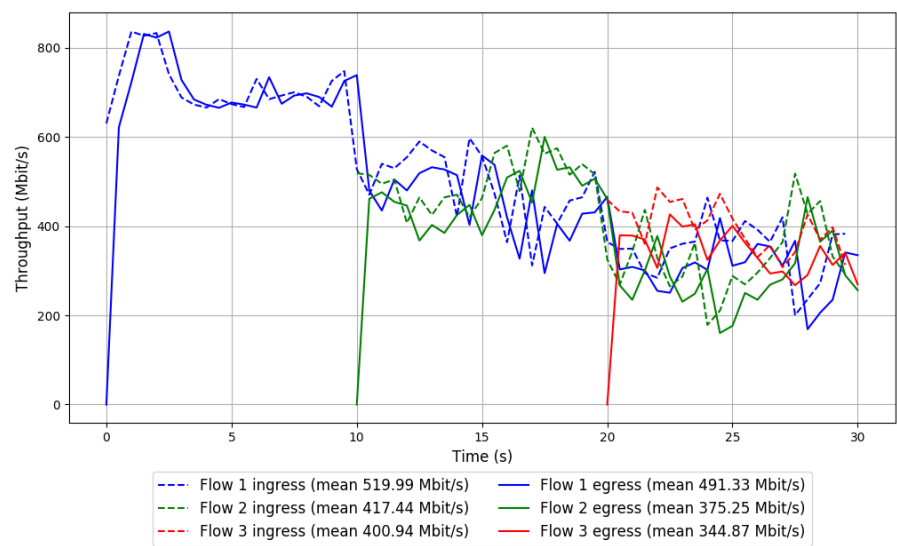


Run 4: Statistics of TCP BBR

Start at: 2018-12-20 03:16:00
End at: 2018-12-20 03:16:30
Local clock offset: 1.297 ms
Remote clock offset: -2.842 ms

Below is generated by plot.py at 2018-12-20 04:03:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 854.75 Mbit/s
95th percentile per-packet one-way delay: 5.459 ms
Loss rate: 8.15%
-- Flow 1:
Average throughput: 491.33 Mbit/s
95th percentile per-packet one-way delay: 5.449 ms
Loss rate: 5.59%
-- Flow 2:
Average throughput: 375.25 Mbit/s
95th percentile per-packet one-way delay: 5.797 ms
Loss rate: 10.12%
-- Flow 3:
Average throughput: 344.87 Mbit/s
95th percentile per-packet one-way delay: 2.570 ms
Loss rate: 13.98%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-12-20 03:42:34

End at: 2018-12-20 03:43:04

Local clock offset: -2.565 ms

Remote clock offset: 0.268 ms

Below is generated by plot.py at 2018-12-20 04:03:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 865.54 Mbit/s

95th percentile per-packet one-way delay: 5.959 ms

Loss rate: 7.86%

-- Flow 1:

Average throughput: 539.32 Mbit/s

95th percentile per-packet one-way delay: 6.016 ms

Loss rate: 5.02%

-- Flow 2:

Average throughput: 365.30 Mbit/s

95th percentile per-packet one-way delay: 6.038 ms

Loss rate: 11.55%

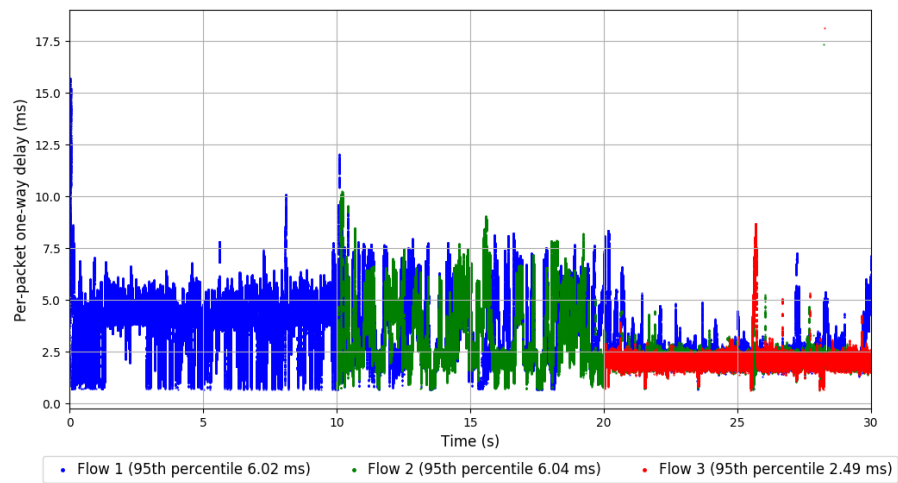
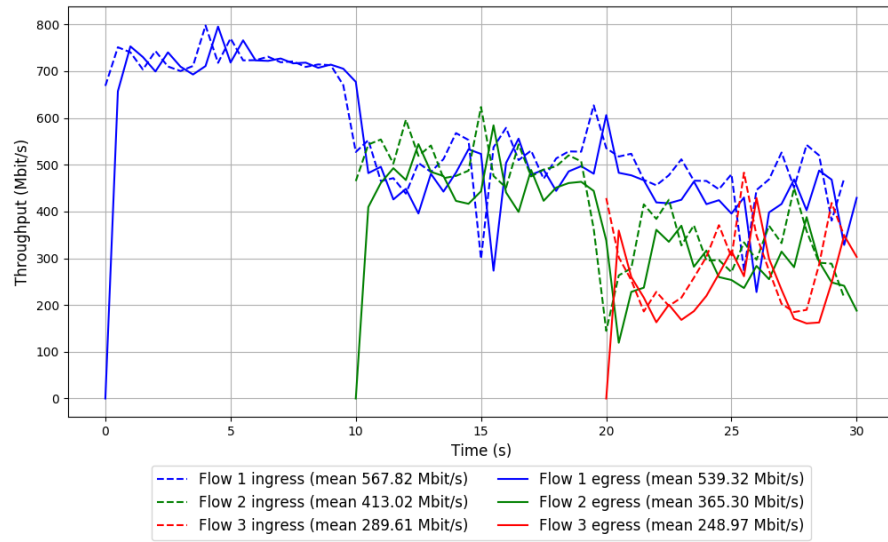
-- Flow 3:

Average throughput: 248.97 Mbit/s

95th percentile per-packet one-way delay: 2.491 ms

Loss rate: 14.03%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-12-20 01:54:27

End at: 2018-12-20 01:54:57

Local clock offset: 0.529 ms

Remote clock offset: 0.858 ms

Below is generated by plot.py at 2018-12-20 04:03:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.06 Mbit/s

95th percentile per-packet one-way delay: 1.622 ms

Loss rate: 50.58%

-- Flow 1:

Average throughput: 12.29 Mbit/s

95th percentile per-packet one-way delay: 2.994 ms

Loss rate: 24.83%

-- Flow 2:

Average throughput: 8.57 Mbit/s

95th percentile per-packet one-way delay: 1.286 ms

Loss rate: 53.85%

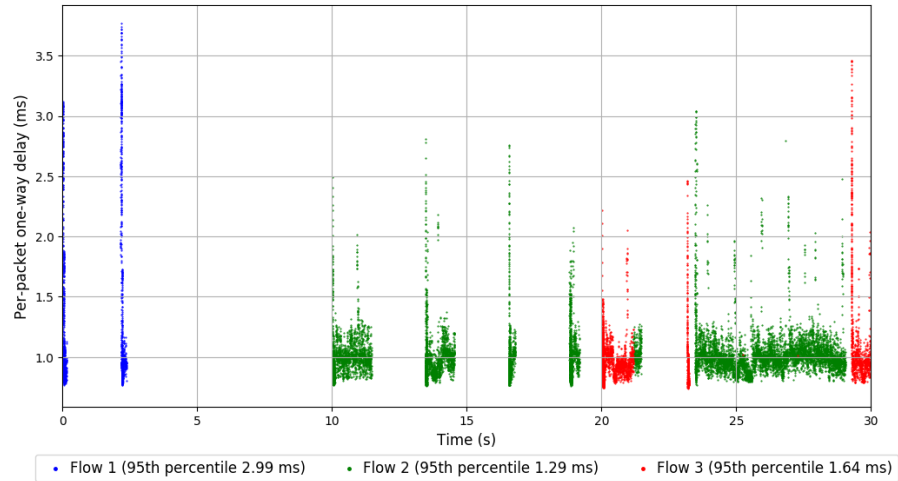
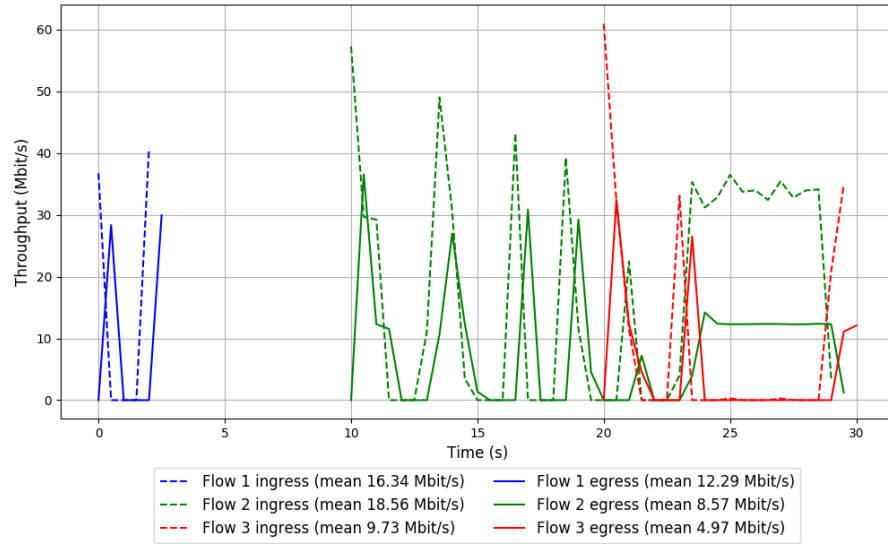
-- Flow 3:

Average throughput: 4.97 Mbit/s

95th percentile per-packet one-way delay: 1.640 ms

Loss rate: 48.96%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-12-20 02:21:20

End at: 2018-12-20 02:21:50

Local clock offset: 3.463 ms

Remote clock offset: 1.19 ms

Below is generated by plot.py at 2018-12-20 04:03:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.59 Mbit/s

95th percentile per-packet one-way delay: 1.580 ms

Loss rate: 34.25%

-- Flow 1:

Average throughput: 12.30 Mbit/s

95th percentile per-packet one-way delay: 1.390 ms

Loss rate: 34.96%

-- Flow 2:

Average throughput: 7.07 Mbit/s

95th percentile per-packet one-way delay: 1.590 ms

Loss rate: 36.49%

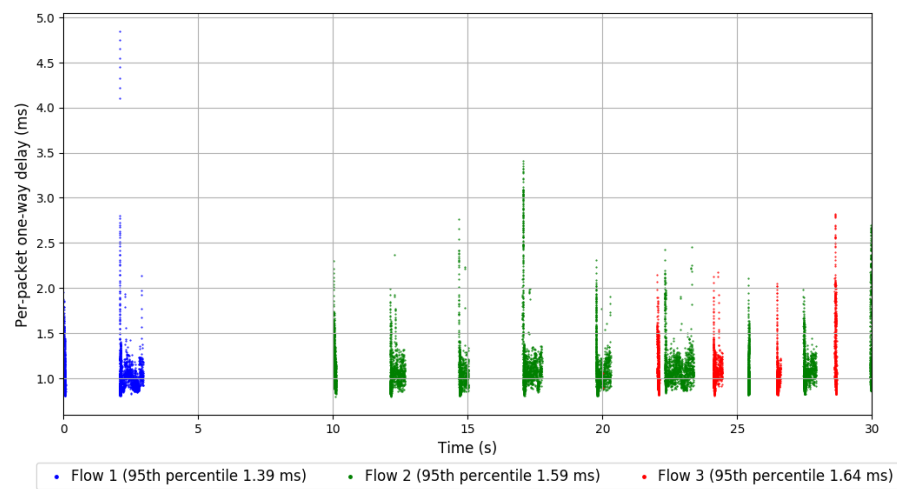
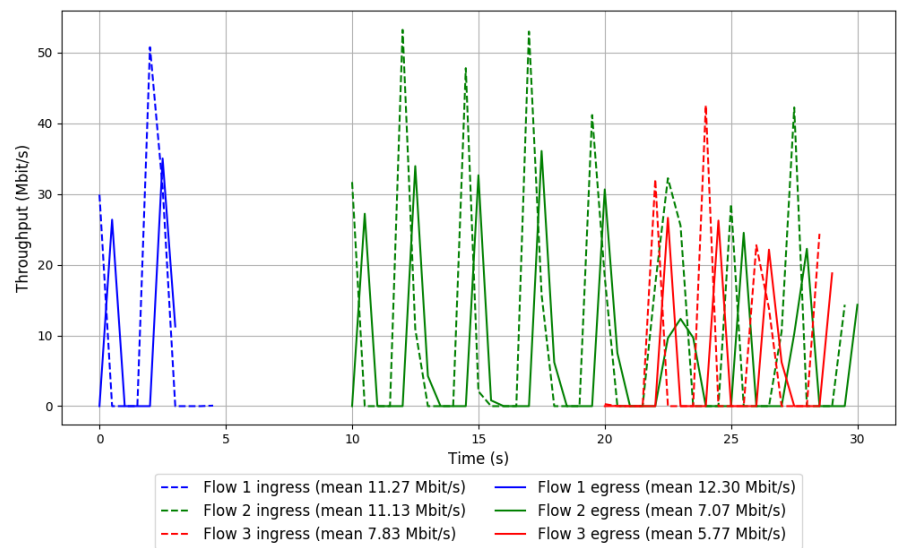
-- Flow 3:

Average throughput: 5.77 Mbit/s

95th percentile per-packet one-way delay: 1.642 ms

Loss rate: 26.35%

Run 2: Report of Copa — Data Link

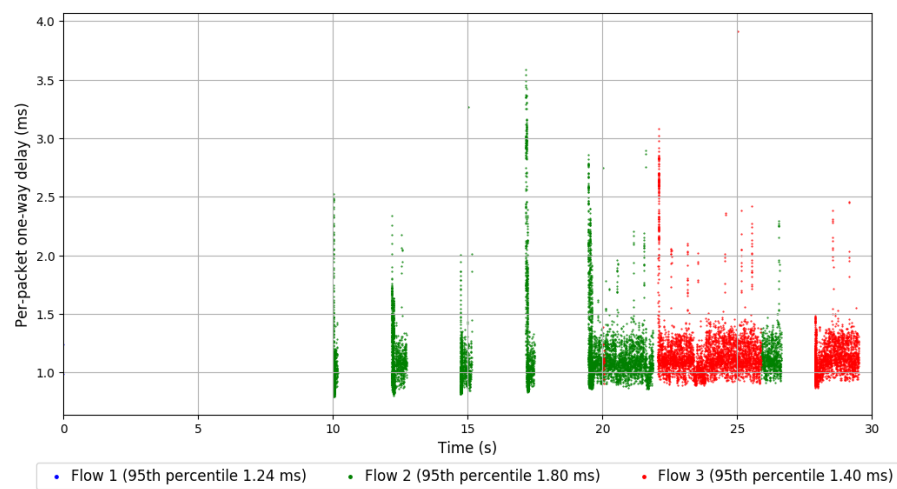
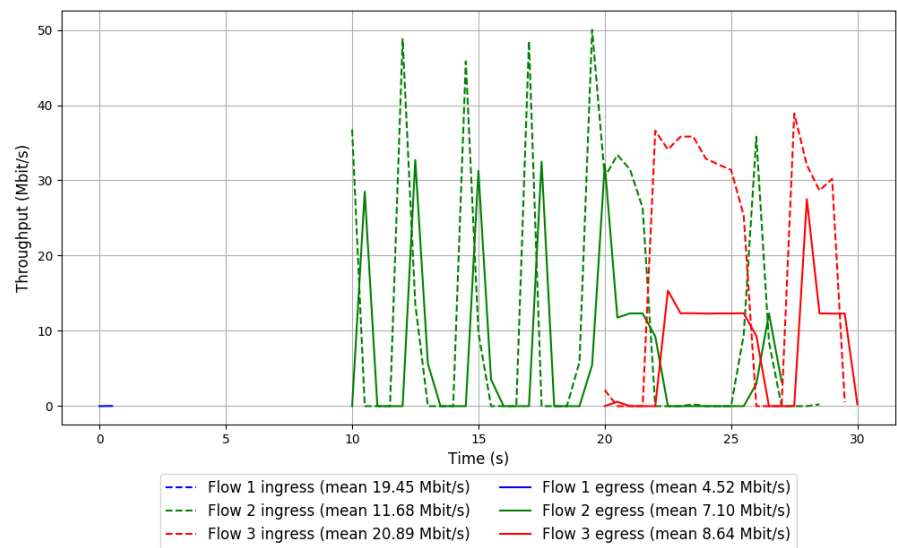


Run 3: Statistics of Copa

Start at: 2018-12-20 02:48:17
End at: 2018-12-20 02:48:47
Local clock offset: 5.082 ms
Remote clock offset: -2.154 ms

Below is generated by plot.py at 2018-12-20 04:03:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.78 Mbit/s
95th percentile per-packet one-way delay: 1.701 ms
Loss rate: 51.92%
-- Flow 1:
Average throughput: 4.52 Mbit/s
95th percentile per-packet one-way delay: 1.237 ms
Loss rate: 78.66%
-- Flow 2:
Average throughput: 7.10 Mbit/s
95th percentile per-packet one-way delay: 1.799 ms
Loss rate: 45.76%
-- Flow 3:
Average throughput: 8.64 Mbit/s
95th percentile per-packet one-way delay: 1.397 ms
Loss rate: 58.67%

Run 3: Report of Copa — Data Link

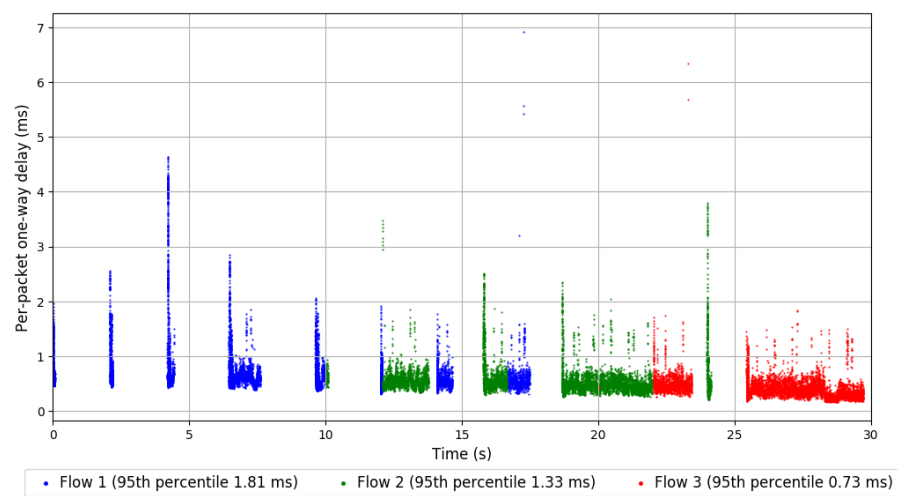
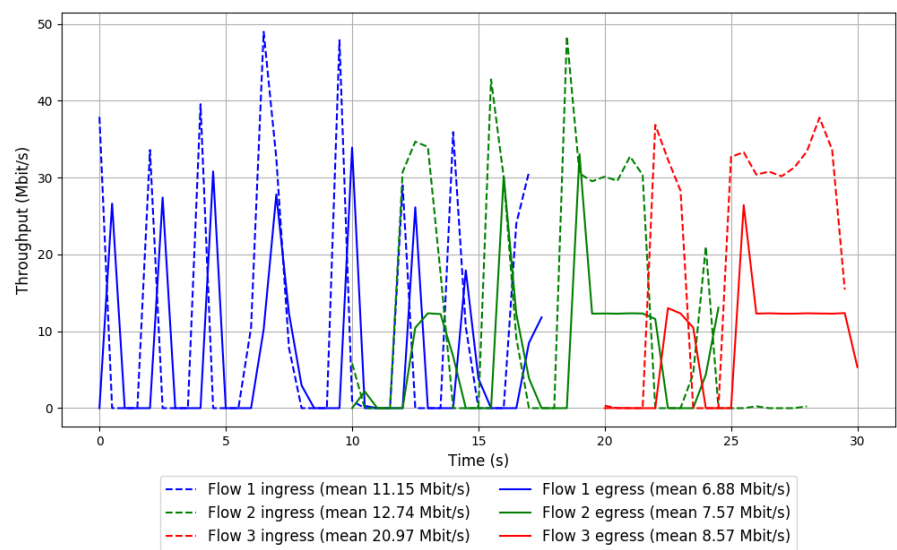


Run 4: Statistics of Copa

Start at: 2018-12-20 03:14:46
End at: 2018-12-20 03:15:16
Local clock offset: 1.643 ms
Remote clock offset: -3.322 ms

```
# Below is generated by plot.py at 2018-12-20 04:03:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.45 Mbit/s
95th percentile per-packet one-way delay: 1.391 ms
Loss rate: 50.68%
-- Flow 1:
Average throughput: 6.88 Mbit/s
95th percentile per-packet one-way delay: 1.809 ms
Loss rate: 38.29%
-- Flow 2:
Average throughput: 7.57 Mbit/s
95th percentile per-packet one-way delay: 1.326 ms
Loss rate: 53.68%
-- Flow 3:
Average throughput: 8.57 Mbit/s
95th percentile per-packet one-way delay: 0.728 ms
Loss rate: 59.14%
```

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-12-20 03:41:20

End at: 2018-12-20 03:41:50

Local clock offset: -2.385 ms

Remote clock offset: 0.261 ms

Below is generated by plot.py at 2018-12-20 04:03:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.28 Mbit/s

95th percentile per-packet one-way delay: 1.692 ms

Loss rate: 47.62%

-- Flow 1:

Average throughput: 9.71 Mbit/s

95th percentile per-packet one-way delay: 1.448 ms

Loss rate: 54.15%

-- Flow 2:

Average throughput: 5.73 Mbit/s

95th percentile per-packet one-way delay: 1.919 ms

Loss rate: 35.14%

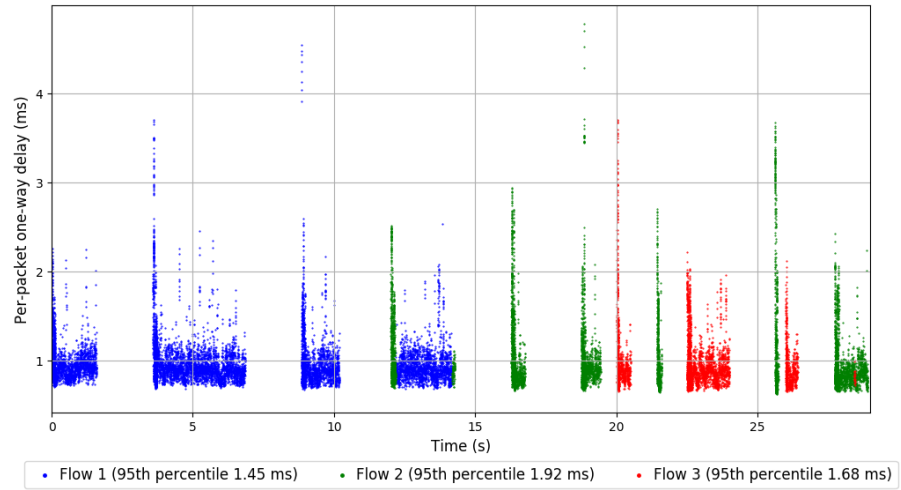
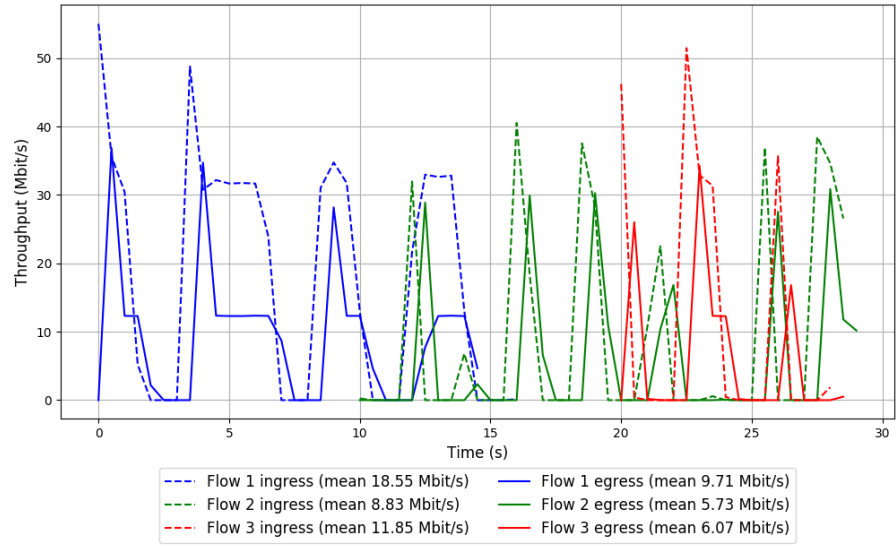
-- Flow 3:

Average throughput: 6.07 Mbit/s

95th percentile per-packet one-way delay: 1.678 ms

Loss rate: 48.82%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-12-20 01:36:02

End at: 2018-12-20 01:36:32

Local clock offset: 0.728 ms

Remote clock offset: 0.562 ms

Below is generated by plot.py at 2018-12-20 04:03:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 775.92 Mbit/s

95th percentile per-packet one-way delay: 2.285 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 433.63 Mbit/s

95th percentile per-packet one-way delay: 2.570 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 359.48 Mbit/s

95th percentile per-packet one-way delay: 2.005 ms

Loss rate: 0.20%

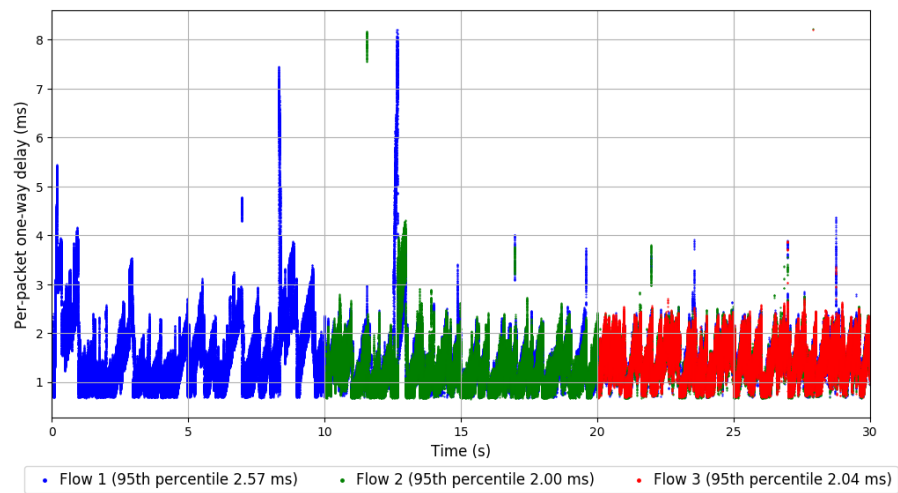
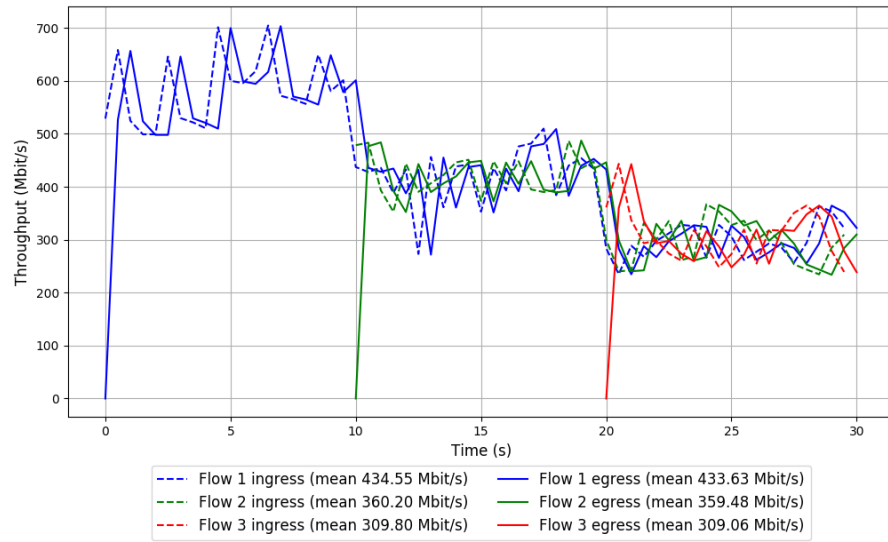
-- Flow 3:

Average throughput: 309.06 Mbit/s

95th percentile per-packet one-way delay: 2.041 ms

Loss rate: 0.23%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-12-20 02:02:55

End at: 2018-12-20 02:03:25

Local clock offset: 0.541 ms

Remote clock offset: 1.007 ms

Below is generated by plot.py at 2018-12-20 04:03:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 800.57 Mbit/s

95th percentile per-packet one-way delay: 6.579 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 454.91 Mbit/s

95th percentile per-packet one-way delay: 7.334 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 364.48 Mbit/s

95th percentile per-packet one-way delay: 2.139 ms

Loss rate: 0.22%

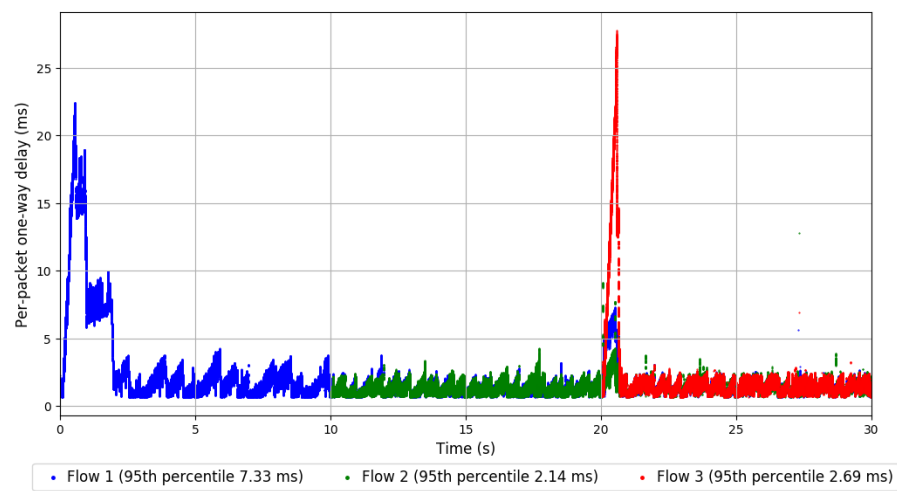
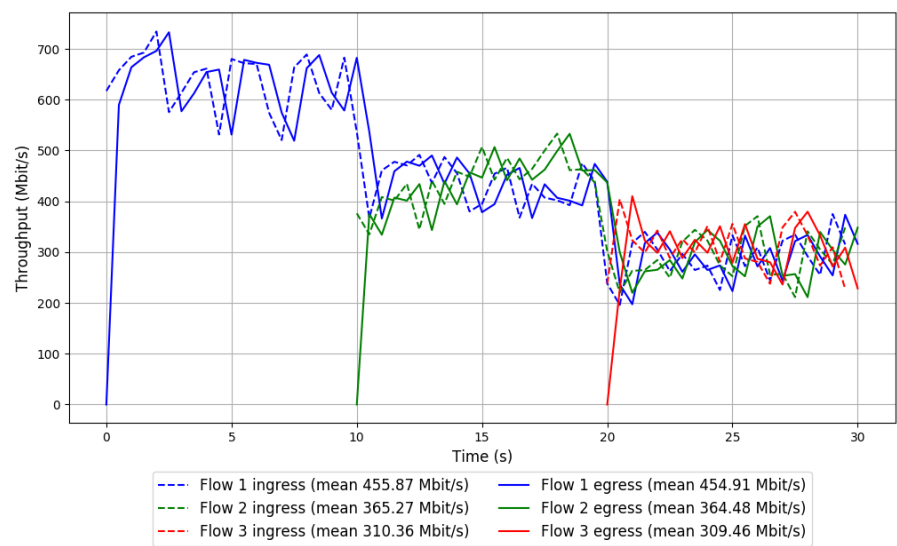
-- Flow 3:

Average throughput: 309.46 Mbit/s

95th percentile per-packet one-way delay: 2.690 ms

Loss rate: 0.29%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-12-20 02:29:51

End at: 2018-12-20 02:30:21

Local clock offset: 4.114 ms

Remote clock offset: 1.364 ms

Below is generated by plot.py at 2018-12-20 04:03:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 740.86 Mbit/s

95th percentile per-packet one-way delay: 2.268 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 421.32 Mbit/s

95th percentile per-packet one-way delay: 2.312 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 333.22 Mbit/s

95th percentile per-packet one-way delay: 2.208 ms

Loss rate: 0.27%

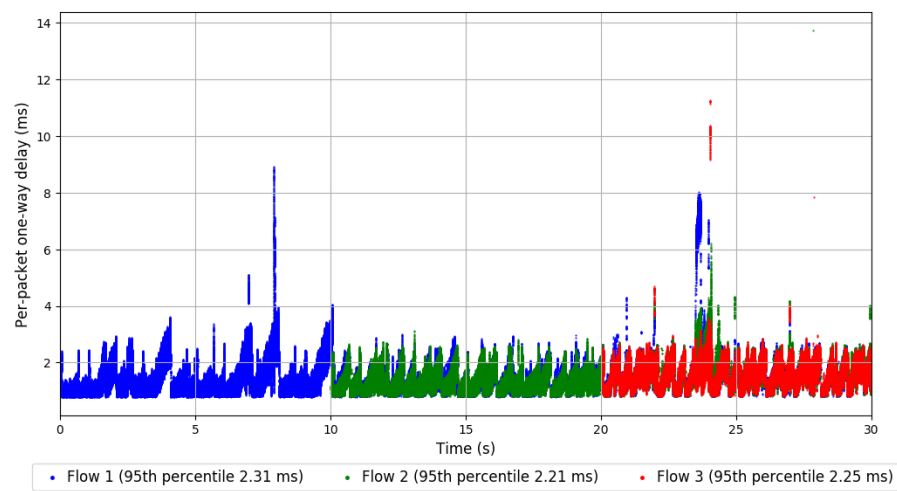
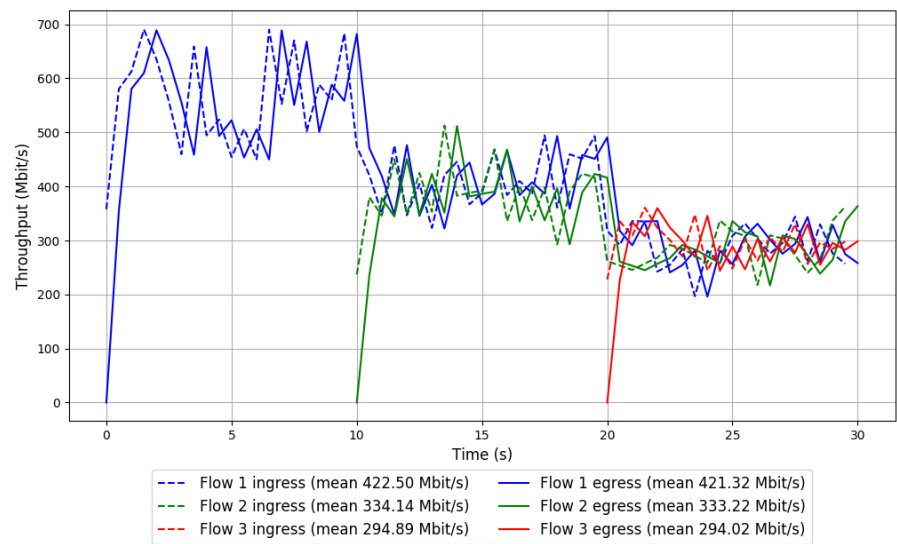
-- Flow 3:

Average throughput: 294.02 Mbit/s

95th percentile per-packet one-way delay: 2.246 ms

Loss rate: 0.29%

Run 3: Report of TCP Cubic — Data Link

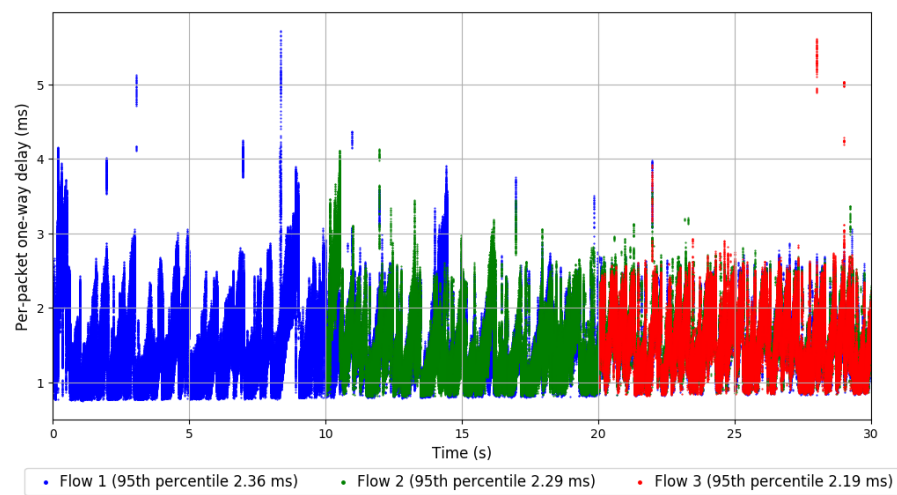
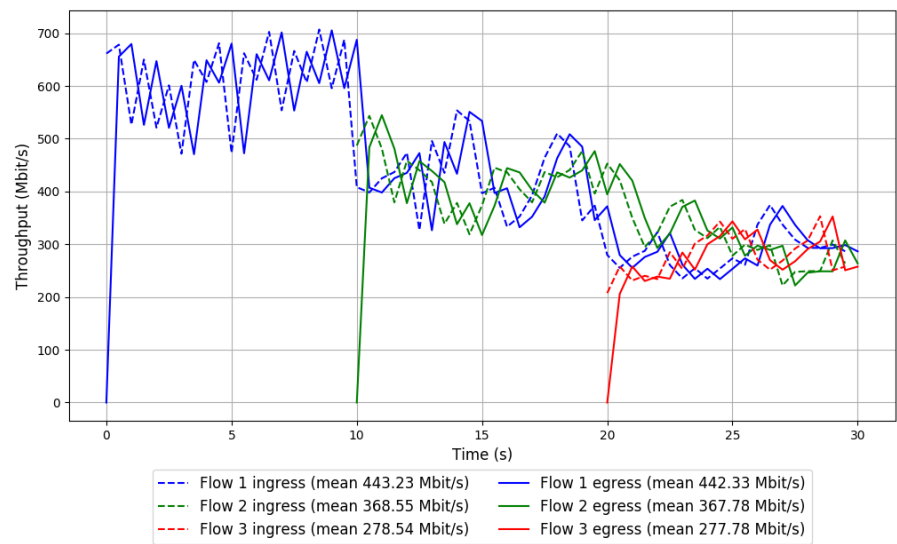


Run 4: Statistics of TCP Cubic

Start at: 2018-12-20 02:56:42
End at: 2018-12-20 02:57:12
Local clock offset: 5.451 ms
Remote clock offset: -3.431 ms

Below is generated by plot.py at 2018-12-20 04:10:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 779.83 Mbit/s
95th percentile per-packet one-way delay: 2.306 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 442.33 Mbit/s
95th percentile per-packet one-way delay: 2.357 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 367.78 Mbit/s
95th percentile per-packet one-way delay: 2.289 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 277.78 Mbit/s
95th percentile per-packet one-way delay: 2.191 ms
Loss rate: 0.26%

Run 4: Report of TCP Cubic — Data Link

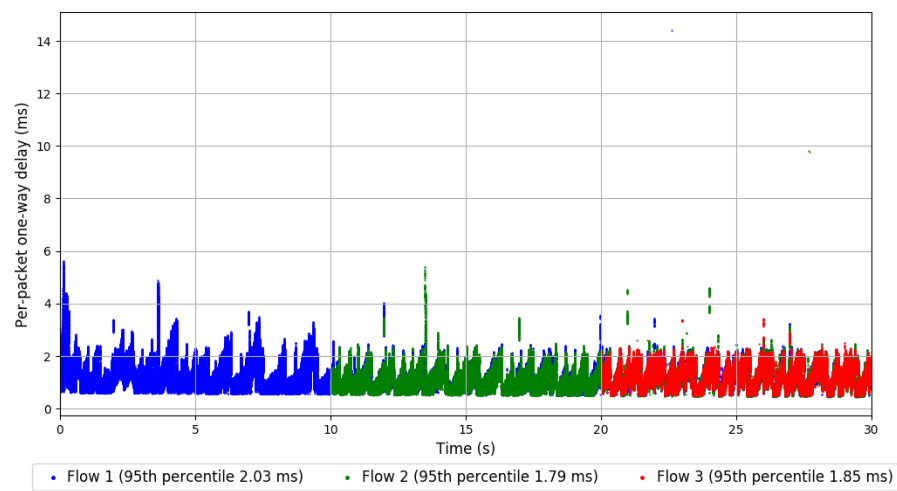
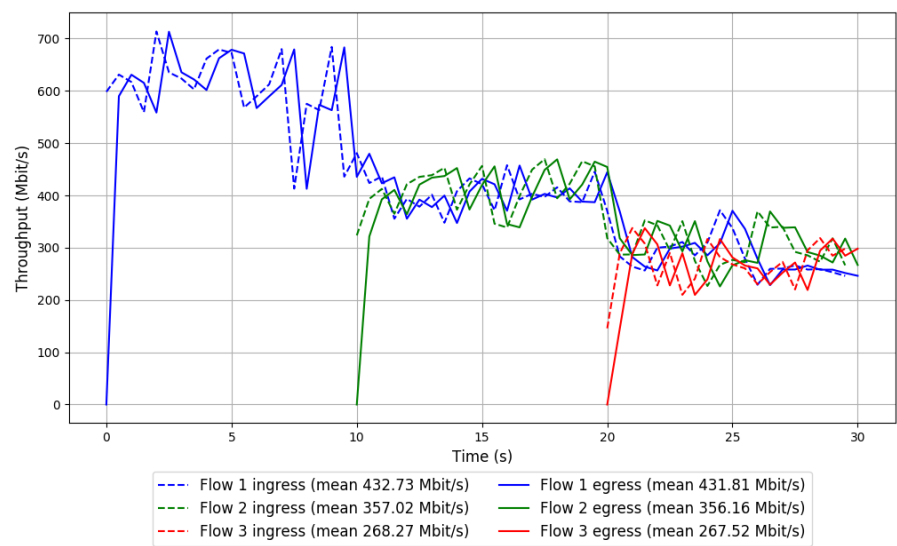


Run 5: Statistics of TCP Cubic

Start at: 2018-12-20 03:23:13
End at: 2018-12-20 03:23:43
Local clock offset: -0.075 ms
Remote clock offset: -1.091 ms

Below is generated by plot.py at 2018-12-20 04:10:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 757.98 Mbit/s
95th percentile per-packet one-way delay: 1.919 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 431.81 Mbit/s
95th percentile per-packet one-way delay: 2.031 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 356.16 Mbit/s
95th percentile per-packet one-way delay: 1.795 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 267.52 Mbit/s
95th percentile per-packet one-way delay: 1.846 ms
Loss rate: 0.28%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-12-20 01:42:53

End at: 2018-12-20 01:43:23

Local clock offset: 0.584 ms

Remote clock offset: 0.618 ms

Below is generated by plot.py at 2018-12-20 04:12:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 664.32 Mbit/s

95th percentile per-packet one-way delay: 6.417 ms

Loss rate: 14.93%

-- Flow 1:

Average throughput: 377.36 Mbit/s

95th percentile per-packet one-way delay: 7.852 ms

Loss rate: 10.74%

-- Flow 2:

Average throughput: 308.50 Mbit/s

95th percentile per-packet one-way delay: 4.985 ms

Loss rate: 19.74%

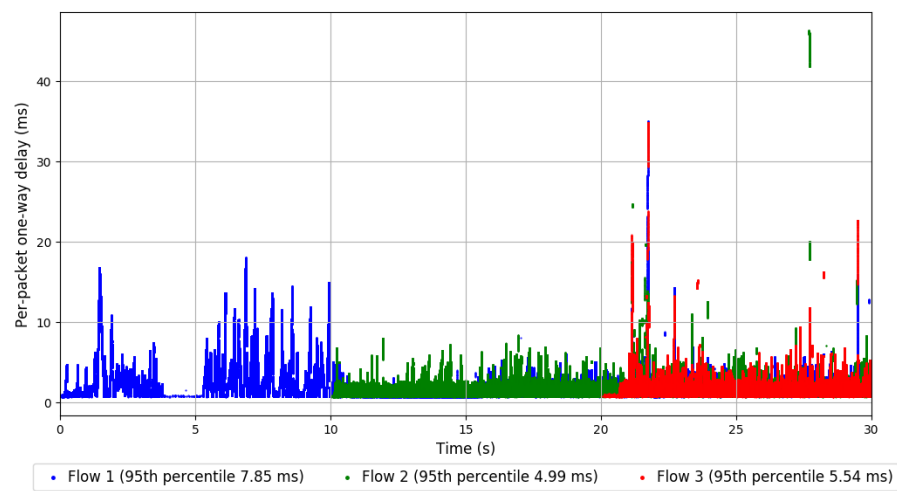
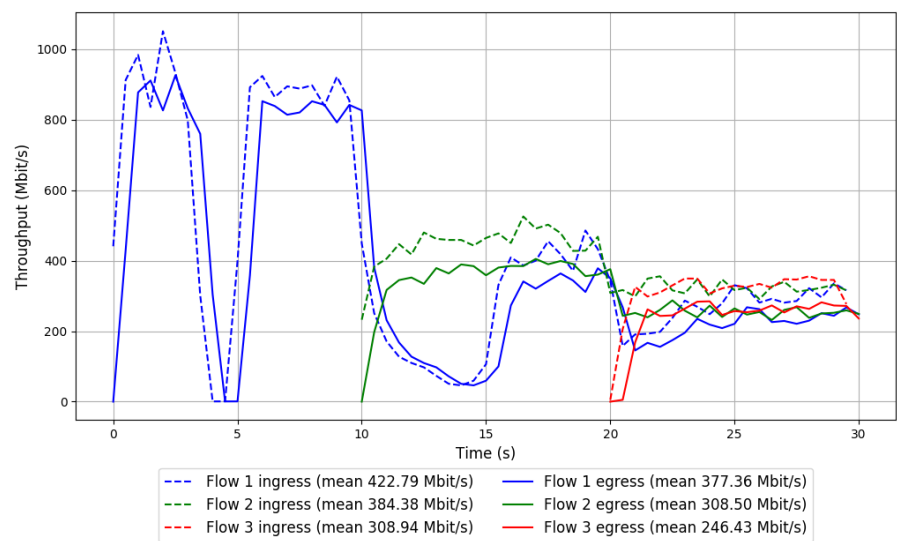
-- Flow 3:

Average throughput: 246.43 Mbit/s

95th percentile per-packet one-way delay: 5.545 ms

Loss rate: 20.20%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-12-20 02:09:49

End at: 2018-12-20 02:10:19

Local clock offset: 1.745 ms

Remote clock offset: 0.952 ms

Below is generated by plot.py at 2018-12-20 04:12:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 656.92 Mbit/s

95th percentile per-packet one-way delay: 3.806 ms

Loss rate: 6.67%

-- Flow 1:

Average throughput: 470.37 Mbit/s

95th percentile per-packet one-way delay: 3.197 ms

Loss rate: 4.14%

-- Flow 2:

Average throughput: 135.15 Mbit/s

95th percentile per-packet one-way delay: 4.501 ms

Loss rate: 17.89%

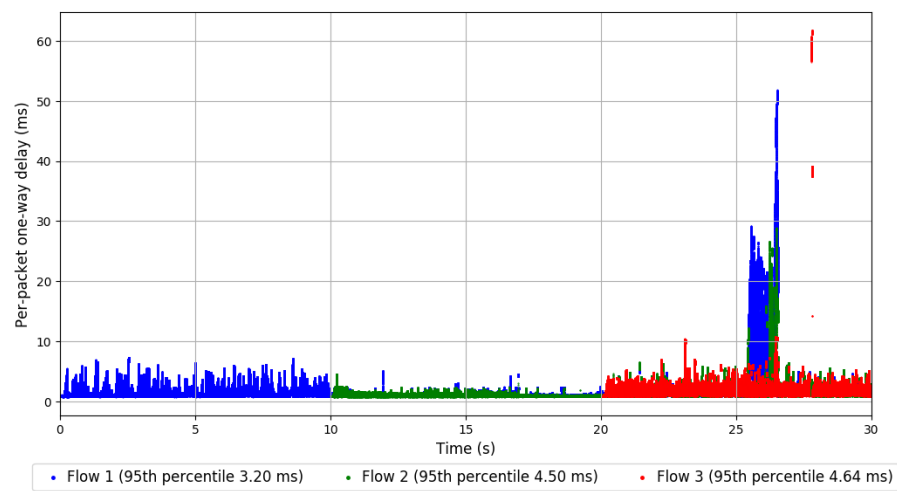
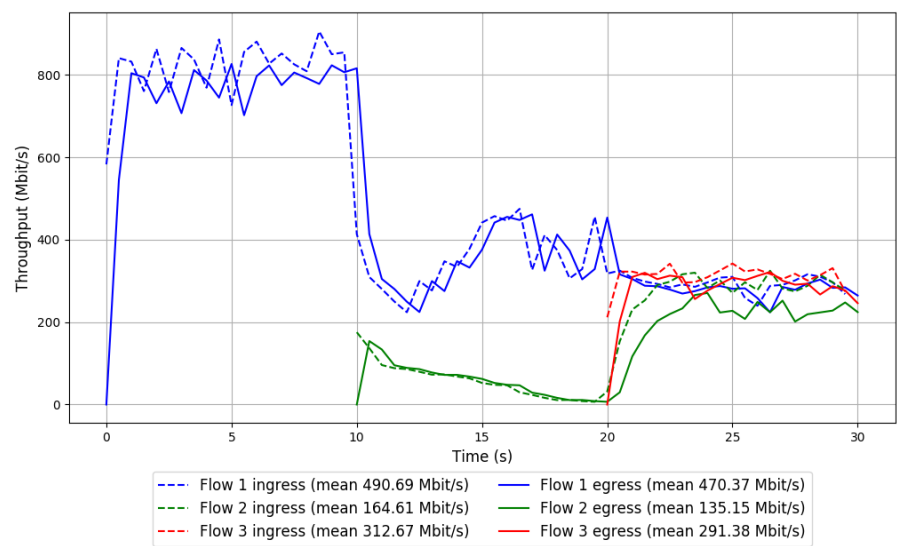
-- Flow 3:

Average throughput: 291.38 Mbit/s

95th percentile per-packet one-way delay: 4.638 ms

Loss rate: 6.81%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-12-20 02:36:41

End at: 2018-12-20 02:37:11

Local clock offset: 4.504 ms

Remote clock offset: 1.435 ms

Below is generated by plot.py at 2018-12-20 04:12:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 600.12 Mbit/s

95th percentile per-packet one-way delay: 8.563 ms

Loss rate: 10.12%

-- Flow 1:

Average throughput: 272.54 Mbit/s

95th percentile per-packet one-way delay: 13.036 ms

Loss rate: 11.03%

-- Flow 2:

Average throughput: 380.90 Mbit/s

95th percentile per-packet one-way delay: 3.968 ms

Loss rate: 5.16%

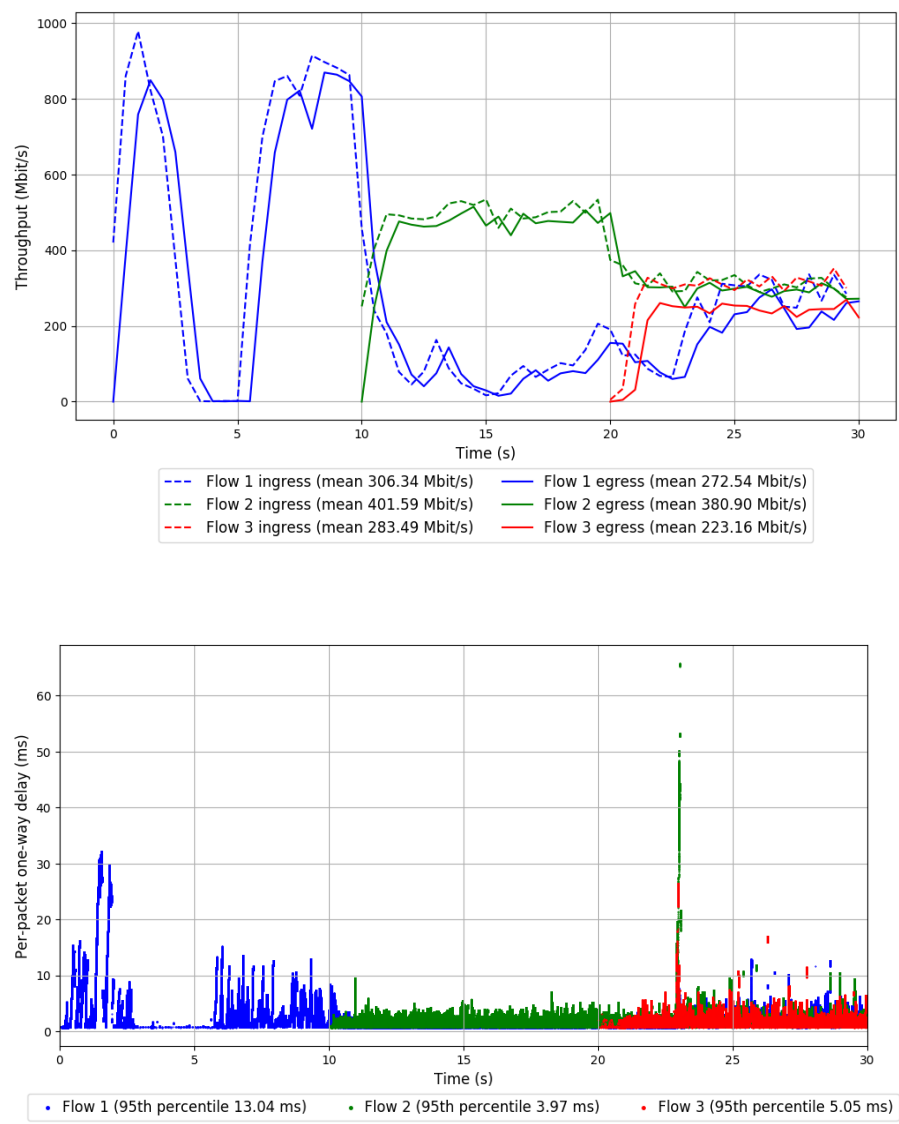
-- Flow 3:

Average throughput: 223.16 Mbit/s

95th percentile per-packet one-way delay: 5.054 ms

Loss rate: 21.28%

Run 3: Report of FillP — Data Link

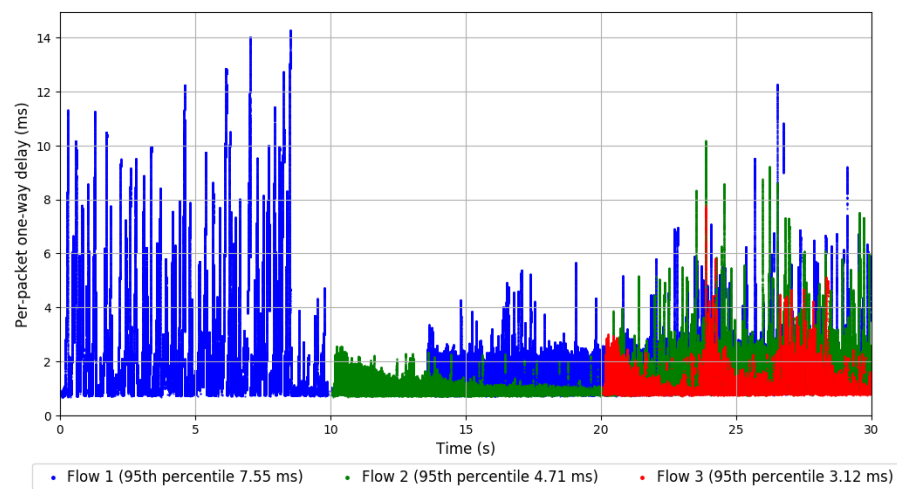
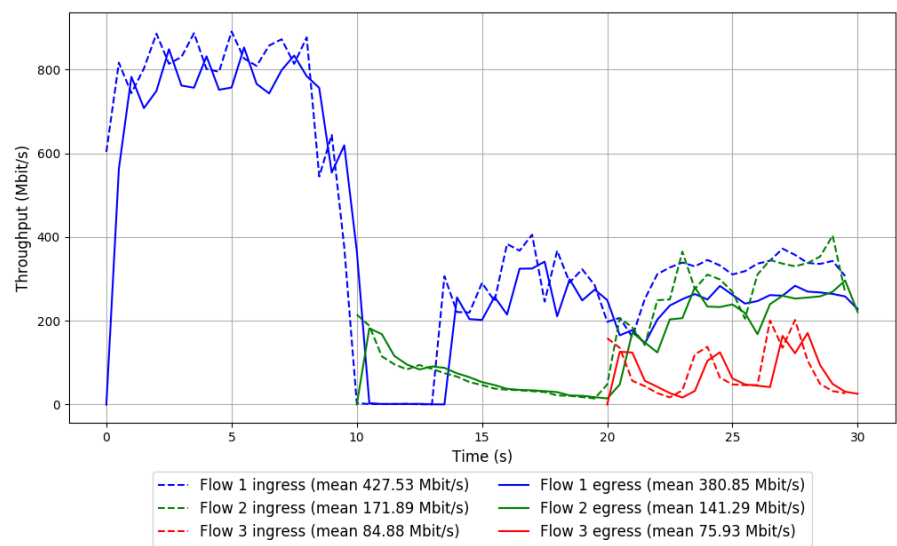


Run 4: Statistics of FillP

Start at: 2018-12-20 03:03:33
End at: 2018-12-20 03:04:03
Local clock offset: 5.756 ms
Remote clock offset: -4.129 ms

Below is generated by plot.py at 2018-12-20 04:12:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 500.03 Mbit/s
95th percentile per-packet one-way delay: 6.997 ms
Loss rate: 12.28%
-- Flow 1:
Average throughput: 380.85 Mbit/s
95th percentile per-packet one-way delay: 7.547 ms
Loss rate: 10.92%
-- Flow 2:
Average throughput: 141.29 Mbit/s
95th percentile per-packet one-way delay: 4.712 ms
Loss rate: 17.80%
-- Flow 3:
Average throughput: 75.93 Mbit/s
95th percentile per-packet one-way delay: 3.118 ms
Loss rate: 10.54%

Run 4: Report of FillP — Data Link

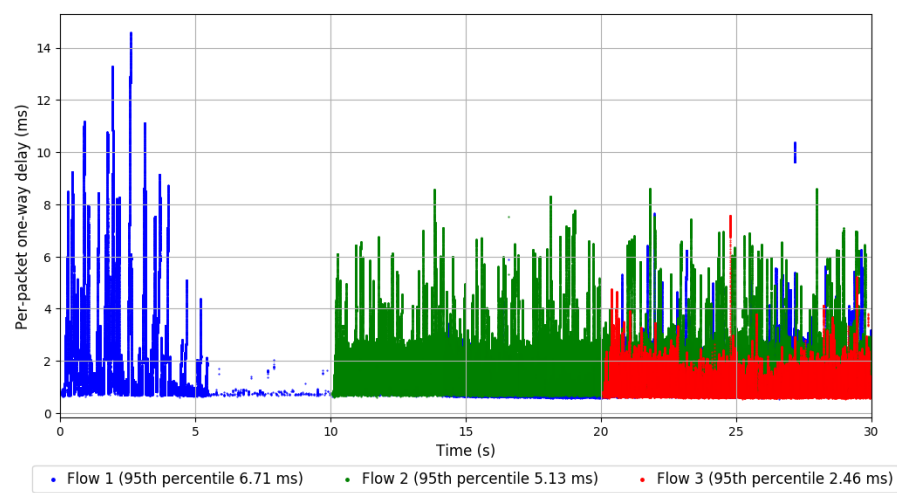
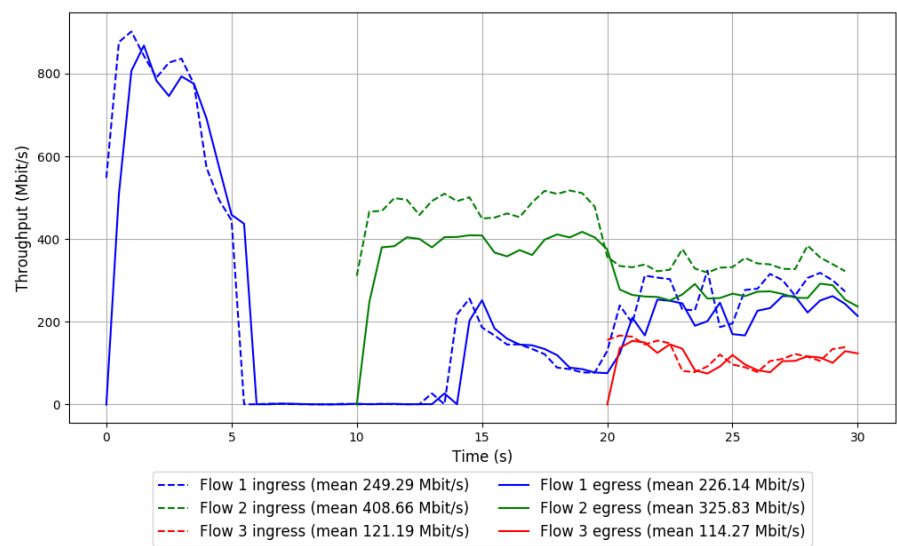


Run 5: Statistics of FillP

Start at: 2018-12-20 03:30:05
End at: 2018-12-20 03:30:35
Local clock offset: -0.913 ms
Remote clock offset: -0.256 ms

Below is generated by plot.py at 2018-12-20 04:12:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 480.87 Mbit/s
95th percentile per-packet one-way delay: 5.525 ms
Loss rate: 14.36%
-- Flow 1:
Average throughput: 226.14 Mbit/s
95th percentile per-packet one-way delay: 6.707 ms
Loss rate: 9.29%
-- Flow 2:
Average throughput: 325.83 Mbit/s
95th percentile per-packet one-way delay: 5.134 ms
Loss rate: 20.27%
-- Flow 3:
Average throughput: 114.27 Mbit/s
95th percentile per-packet one-way delay: 2.459 ms
Loss rate: 5.71%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-12-20 01:53:05

End at: 2018-12-20 01:53:35

Local clock offset: 0.517 ms

Remote clock offset: 0.802 ms

Below is generated by plot.py at 2018-12-20 04:12:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 306.45 Mbit/s

95th percentile per-packet one-way delay: 6.375 ms

Loss rate: 4.66%

-- Flow 1:

Average throughput: 284.14 Mbit/s

95th percentile per-packet one-way delay: 6.614 ms

Loss rate: 4.69%

-- Flow 2:

Average throughput: 23.35 Mbit/s

95th percentile per-packet one-way delay: 2.033 ms

Loss rate: 2.92%

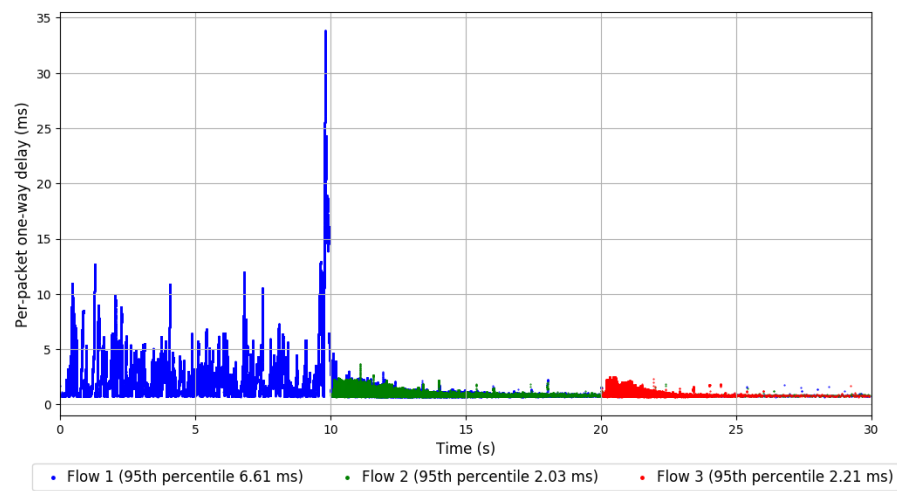
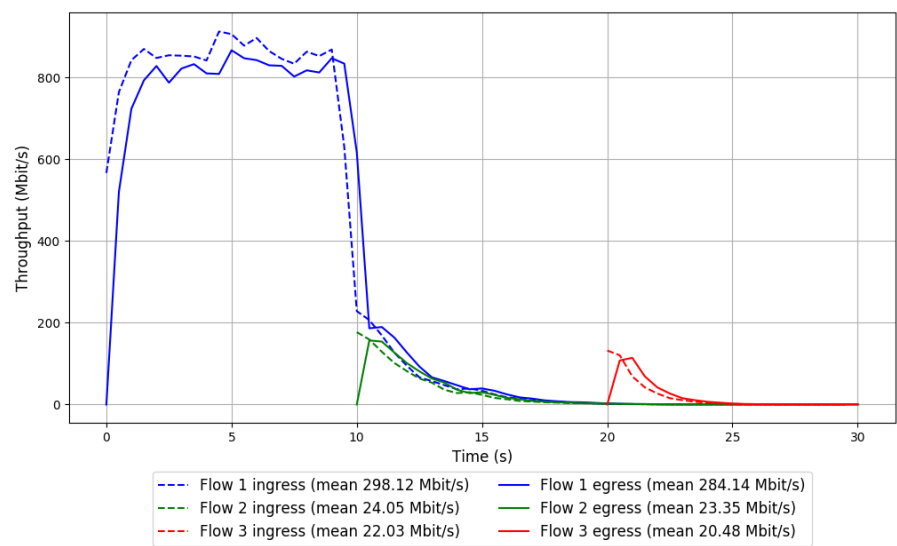
-- Flow 3:

Average throughput: 20.48 Mbit/s

95th percentile per-packet one-way delay: 2.208 ms

Loss rate: 7.02%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-12-20 02:19:54

End at: 2018-12-20 02:20:24

Local clock offset: 3.333 ms

Remote clock offset: 1.109 ms

Below is generated by plot.py at 2018-12-20 04:13:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 402.42 Mbit/s

95th percentile per-packet one-way delay: 4.908 ms

Loss rate: 4.71%

-- Flow 1:

Average throughput: 331.35 Mbit/s

95th percentile per-packet one-way delay: 5.344 ms

Loss rate: 4.28%

-- Flow 2:

Average throughput: 93.74 Mbit/s

95th percentile per-packet one-way delay: 2.153 ms

Loss rate: 6.58%

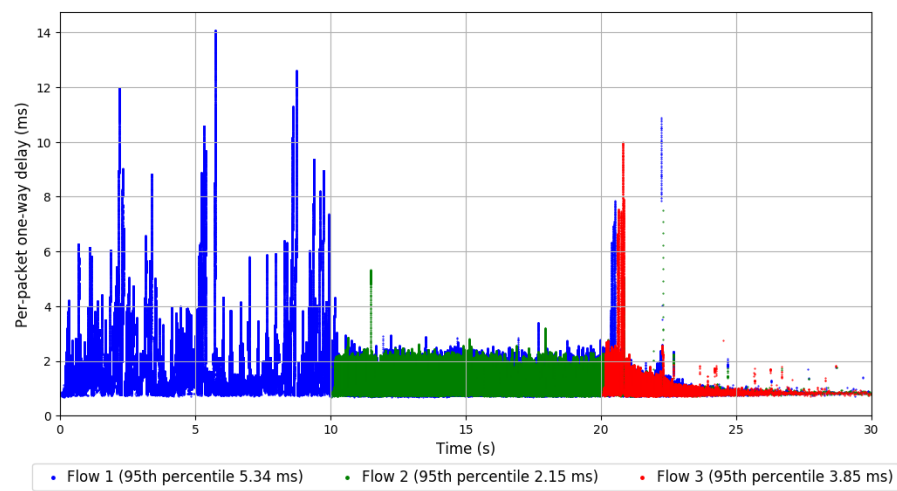
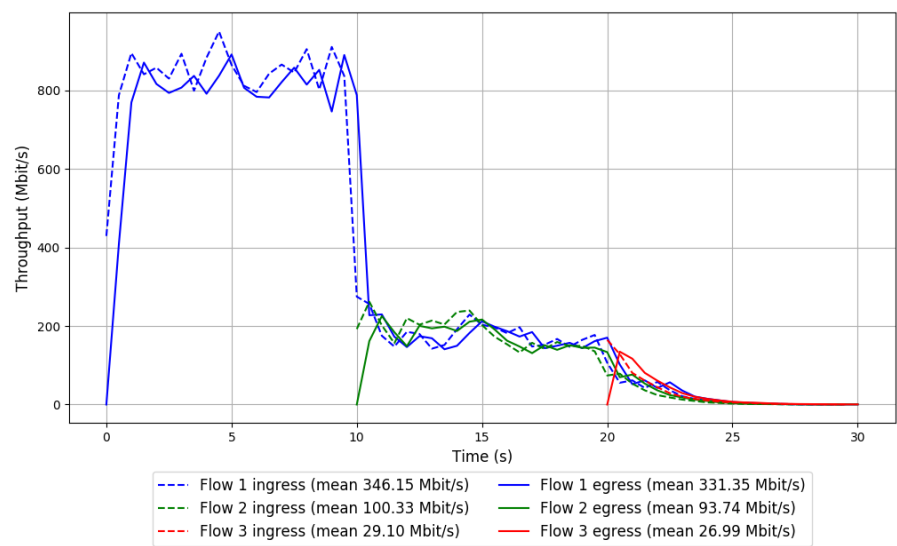
-- Flow 3:

Average throughput: 26.99 Mbit/s

95th percentile per-packet one-way delay: 3.849 ms

Loss rate: 7.25%

Run 2: Report of FillP-Sheep — Data Link

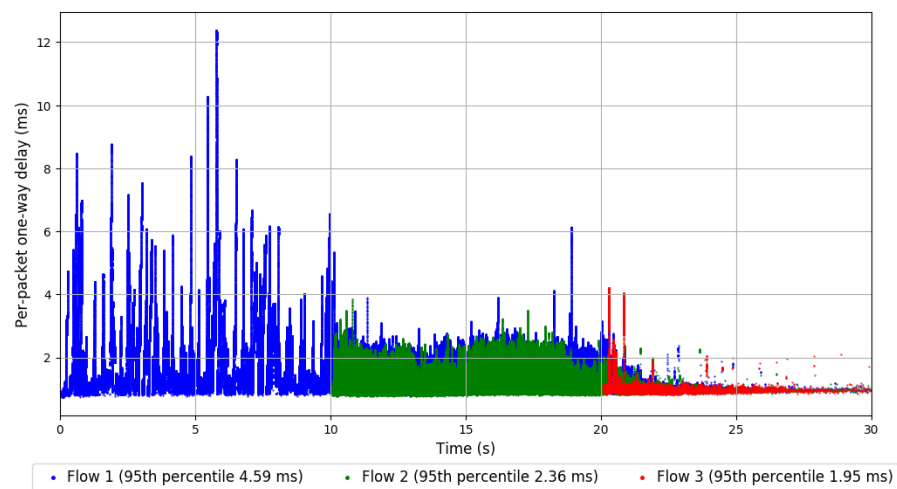
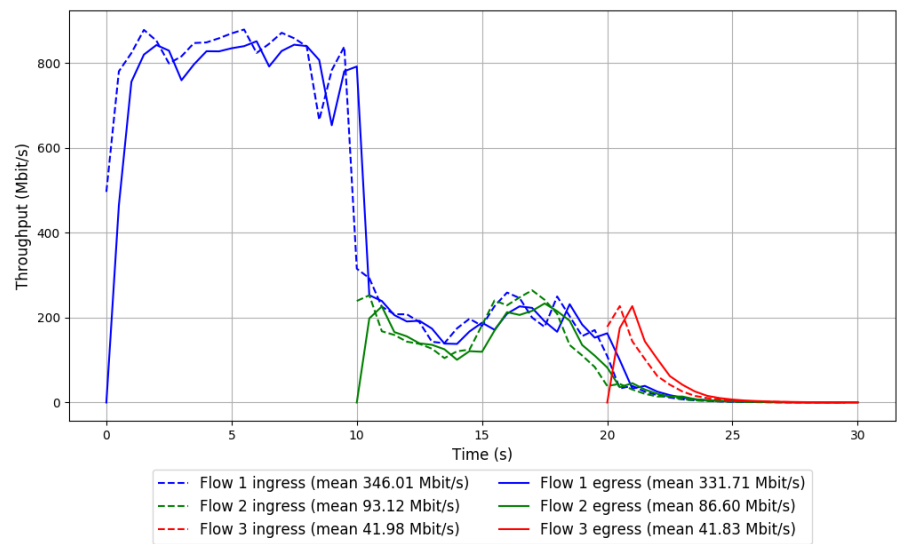


Run 3: Statistics of FillP-Sheep

Start at: 2018-12-20 02:46:51
End at: 2018-12-20 02:47:21
Local clock offset: 4.994 ms
Remote clock offset: -1.851 ms

Below is generated by plot.py at 2018-12-20 04:15:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 402.96 Mbit/s
95th percentile per-packet one-way delay: 4.309 ms
Loss rate: 4.43%
-- Flow 1:
Average throughput: 331.71 Mbit/s
95th percentile per-packet one-way delay: 4.595 ms
Loss rate: 4.13%
-- Flow 2:
Average throughput: 86.60 Mbit/s
95th percentile per-packet one-way delay: 2.362 ms
Loss rate: 7.01%
-- Flow 3:
Average throughput: 41.83 Mbit/s
95th percentile per-packet one-way delay: 1.947 ms
Loss rate: 0.37%

Run 3: Report of FillP-Sheep — Data Link

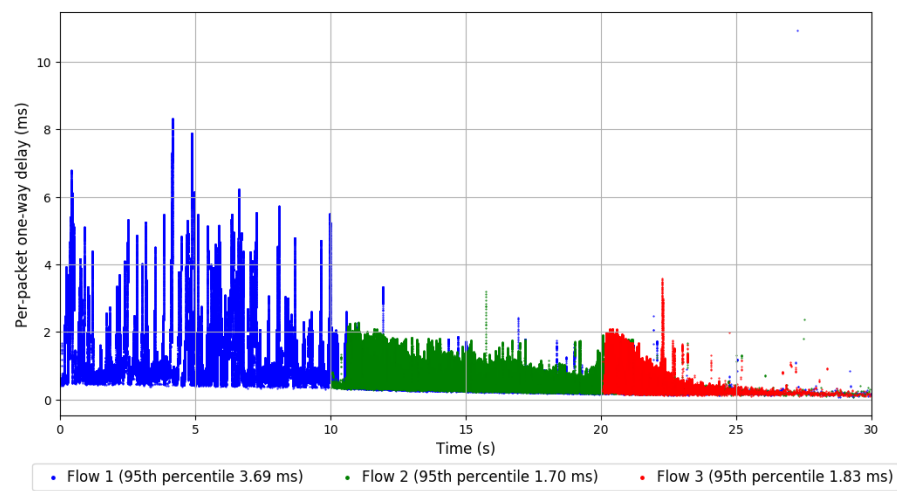
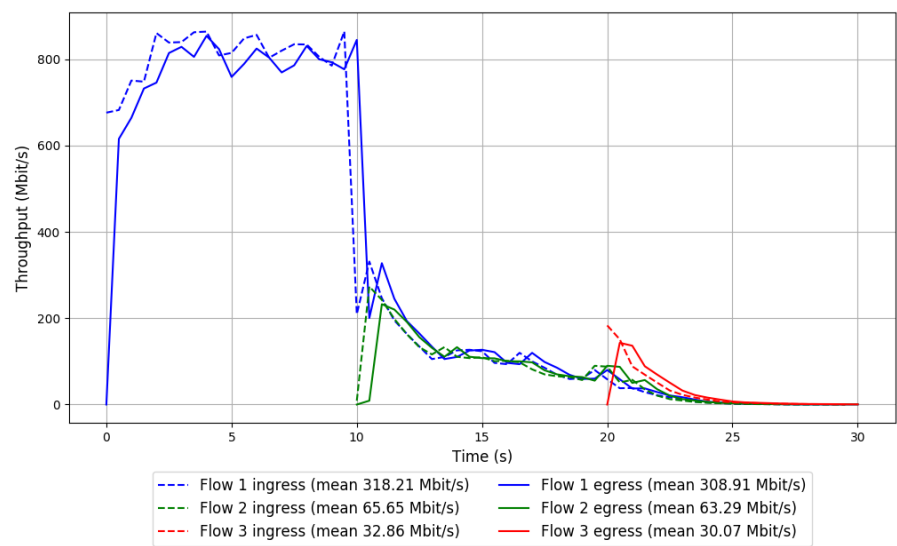


Run 4: Statistics of FillP-Sheep

Start at: 2018-12-20 03:13:22
End at: 2018-12-20 03:13:52
Local clock offset: 2.035 ms
Remote clock offset: -3.921 ms

Below is generated by plot.py at 2018-12-20 04:15:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 360.97 Mbit/s
95th percentile per-packet one-way delay: 3.378 ms
Loss rate: 3.17%
-- Flow 1:
Average throughput: 308.91 Mbit/s
95th percentile per-packet one-way delay: 3.693 ms
Loss rate: 2.93%
-- Flow 2:
Average throughput: 63.29 Mbit/s
95th percentile per-packet one-way delay: 1.699 ms
Loss rate: 3.59%
-- Flow 3:
Average throughput: 30.07 Mbit/s
95th percentile per-packet one-way delay: 1.830 ms
Loss rate: 8.49%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-12-20 03:39:57

End at: 2018-12-20 03:40:27

Local clock offset: -2.16 ms

Remote clock offset: 0.15 ms

Below is generated by plot.py at 2018-12-20 04:15:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 347.02 Mbit/s

95th percentile per-packet one-way delay: 2.745 ms

Loss rate: 2.75%

-- Flow 1:

Average throughput: 299.74 Mbit/s

95th percentile per-packet one-way delay: 2.913 ms

Loss rate: 2.76%

-- Flow 2:

Average throughput: 56.16 Mbit/s

95th percentile per-packet one-way delay: 1.678 ms

Loss rate: 1.08%

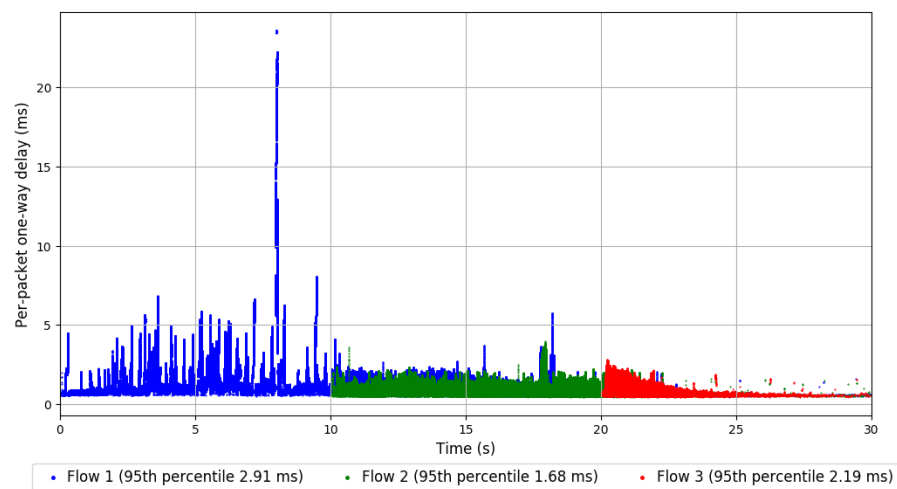
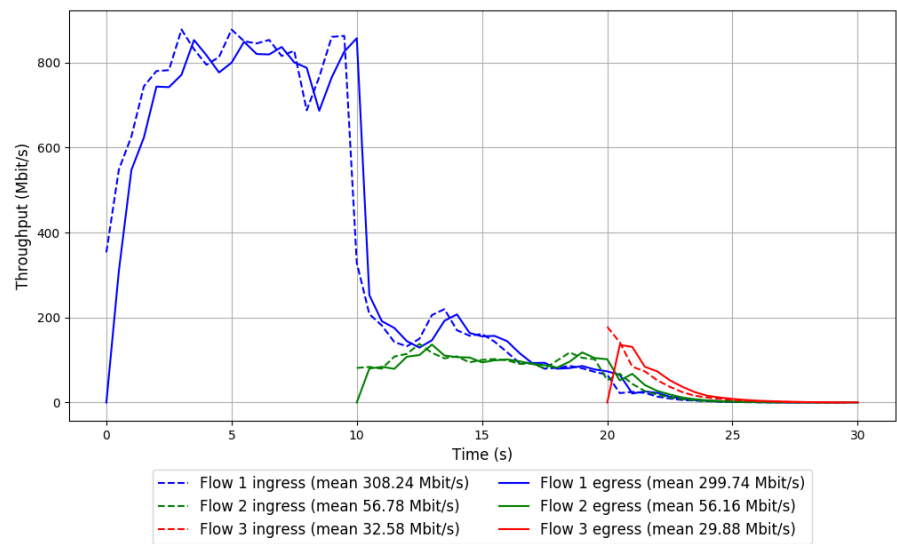
-- Flow 3:

Average throughput: 29.88 Mbit/s

95th percentile per-packet one-way delay: 2.188 ms

Loss rate: 8.30%

Run 5: Report of FillP-Sheep — Data Link

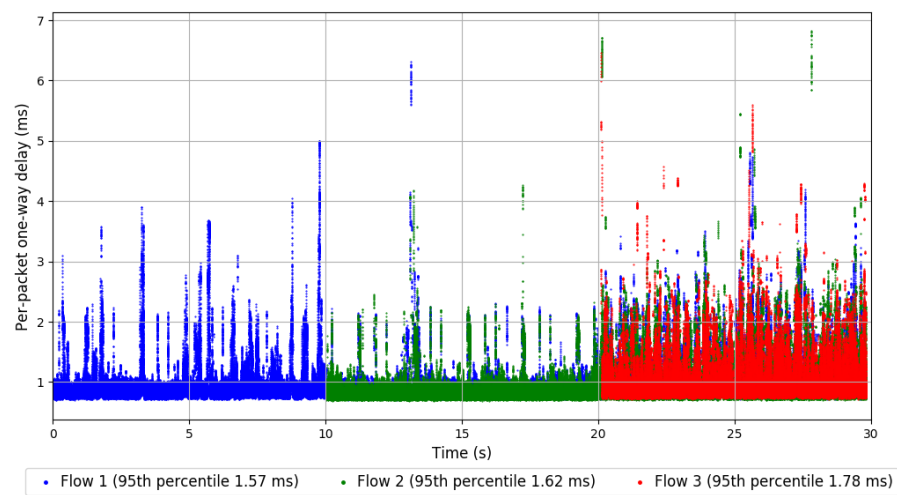
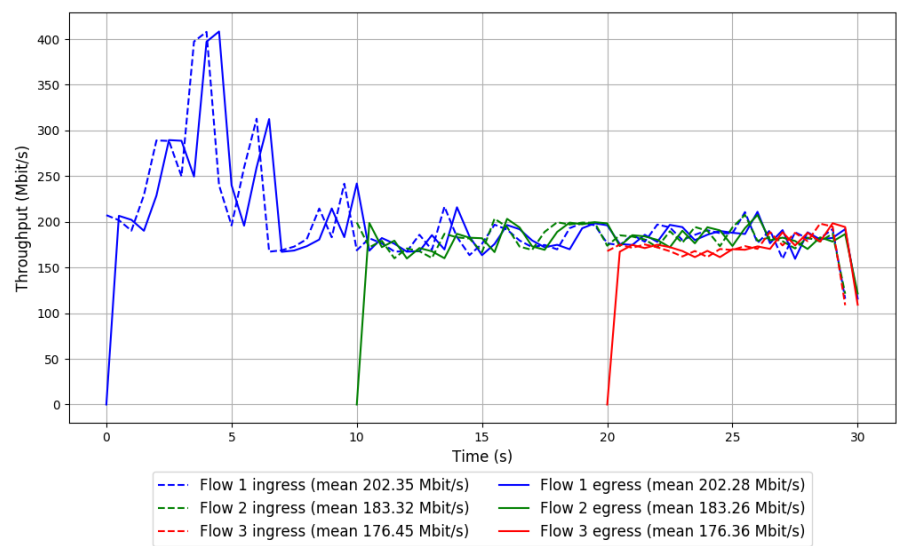


```
Run 1: Statistics of Indigo

Start at: 2018-12-20 01:34:31
End at: 2018-12-20 01:35:02
Local clock offset: 0.73 ms
Remote clock offset: 0.586 ms

# Below is generated by plot.py at 2018-12-20 04:15:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 381.51 Mbit/s
95th percentile per-packet one-way delay: 1.632 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 202.28 Mbit/s
95th percentile per-packet one-way delay: 1.575 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 183.26 Mbit/s
95th percentile per-packet one-way delay: 1.624 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 176.36 Mbit/s
95th percentile per-packet one-way delay: 1.777 ms
Loss rate: 0.06%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-12-20 02:01:25

End at: 2018-12-20 02:01:55

Local clock offset: 0.541 ms

Remote clock offset: 1.008 ms

Below is generated by plot.py at 2018-12-20 04:15:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 371.13 Mbit/s

95th percentile per-packet one-way delay: 1.872 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 189.03 Mbit/s

95th percentile per-packet one-way delay: 1.687 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 186.04 Mbit/s

95th percentile per-packet one-way delay: 1.898 ms

Loss rate: 0.08%

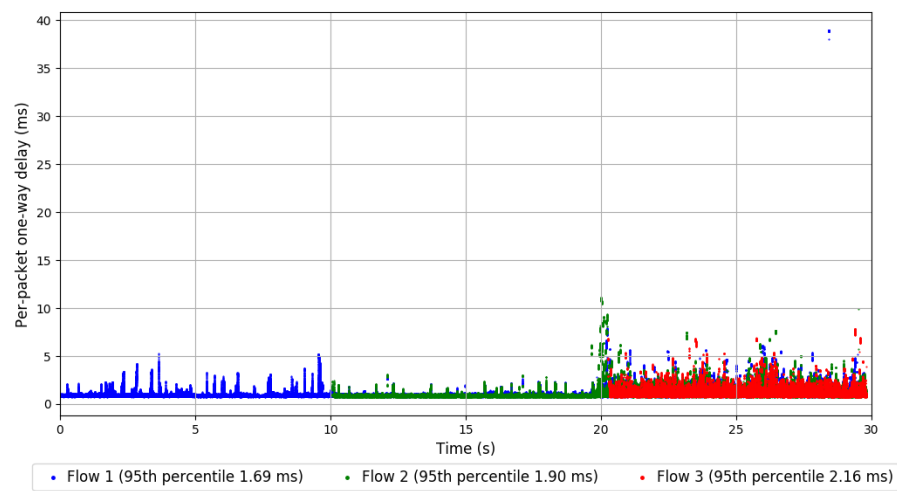
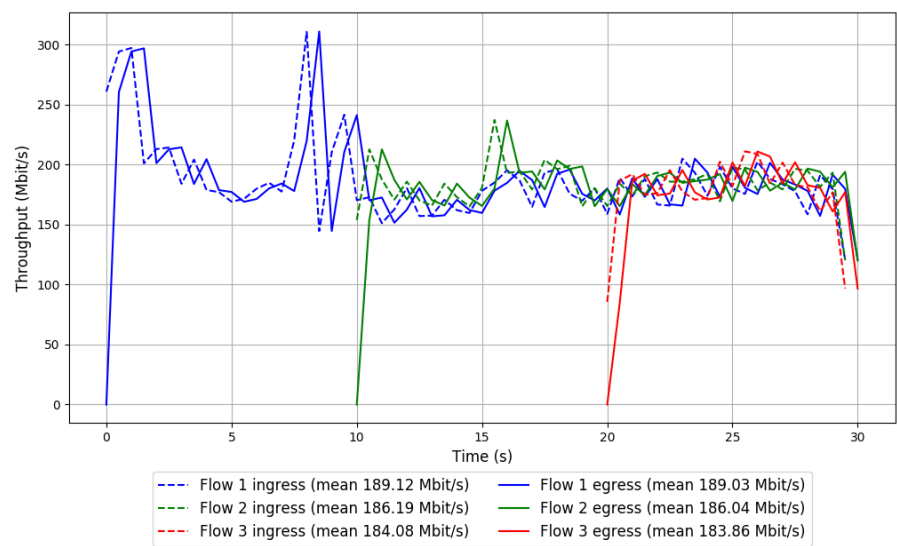
-- Flow 3:

Average throughput: 183.86 Mbit/s

95th percentile per-packet one-way delay: 2.163 ms

Loss rate: 0.12%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-12-20 02:28:20

End at: 2018-12-20 02:28:50

Local clock offset: 4.007 ms

Remote clock offset: 1.276 ms

Below is generated by plot.py at 2018-12-20 04:16:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 388.08 Mbit/s

95th percentile per-packet one-way delay: 2.096 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 203.87 Mbit/s

95th percentile per-packet one-way delay: 1.997 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 189.61 Mbit/s

95th percentile per-packet one-way delay: 2.145 ms

Loss rate: 0.11%

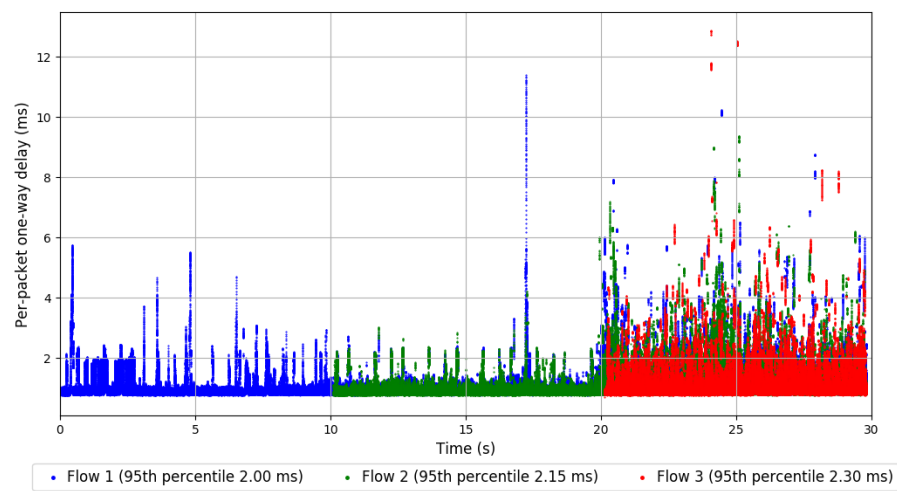
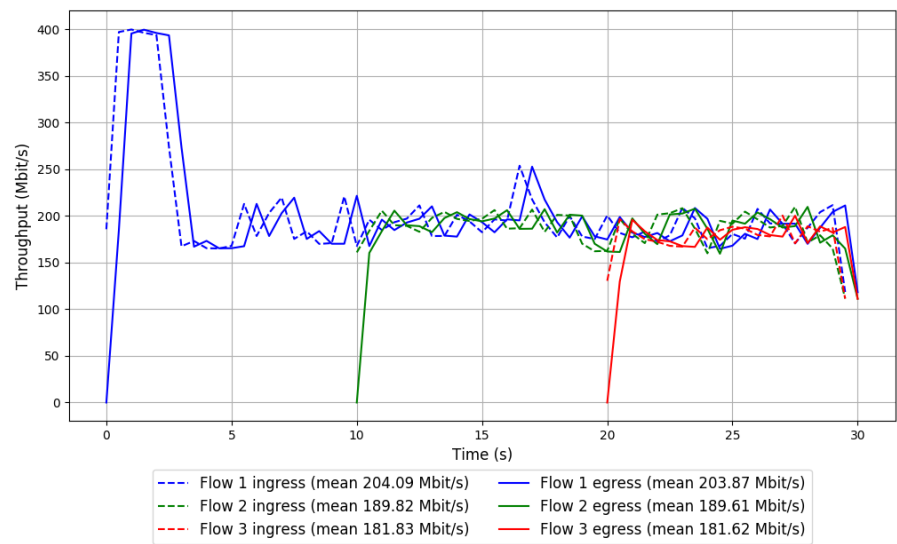
-- Flow 3:

Average throughput: 181.62 Mbit/s

95th percentile per-packet one-way delay: 2.298 ms

Loss rate: 0.11%

Run 3: Report of Indigo — Data Link

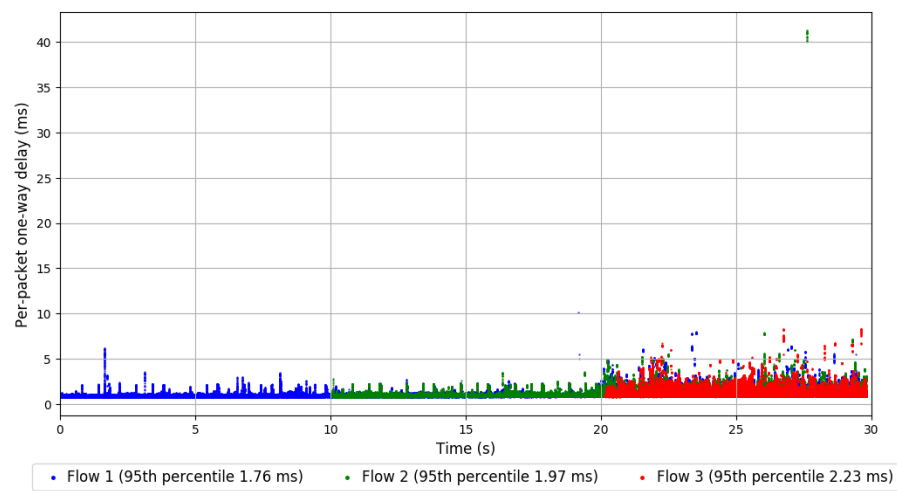
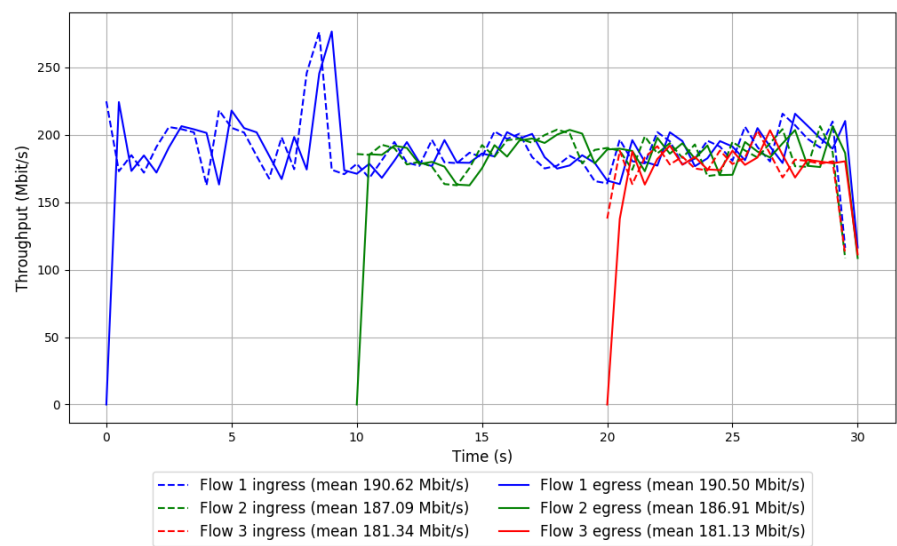


Run 4: Statistics of Indigo

Start at: 2018-12-20 02:55:11
End at: 2018-12-20 02:55:41
Local clock offset: 5.38 ms
Remote clock offset: -3.252 ms

Below is generated by plot.py at 2018-12-20 04:16:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 373.25 Mbit/s
95th percentile per-packet one-way delay: 1.943 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 190.50 Mbit/s
95th percentile per-packet one-way delay: 1.763 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 186.91 Mbit/s
95th percentile per-packet one-way delay: 1.965 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 181.13 Mbit/s
95th percentile per-packet one-way delay: 2.230 ms
Loss rate: 0.11%

Run 4: Report of Indigo — Data Link

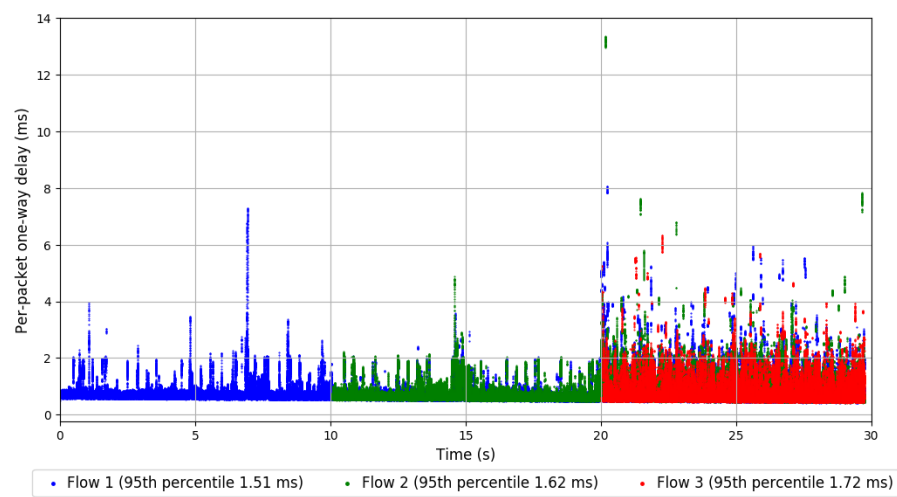
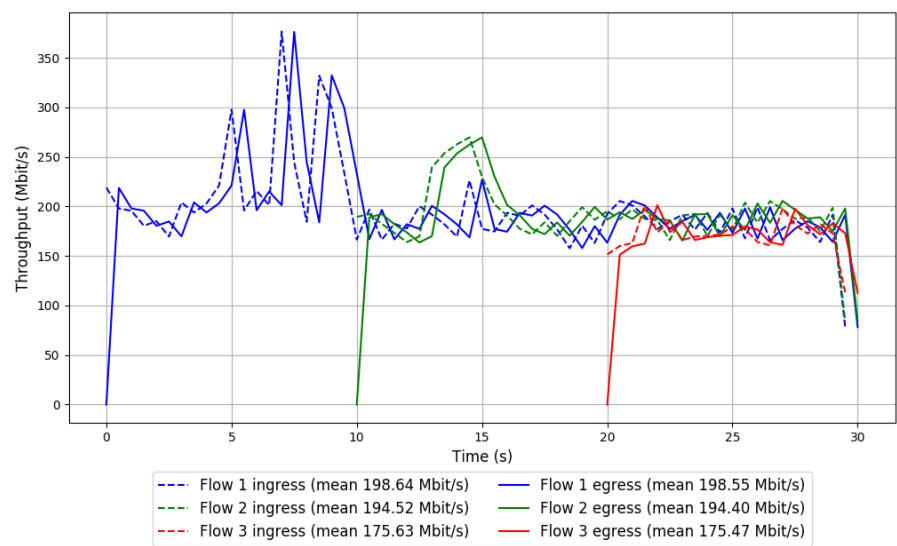


Run 5: Statistics of Indigo

Start at: 2018-12-20 03:21:43
End at: 2018-12-20 03:22:13
Local clock offset: 0.142 ms
Remote clock offset: -1.354 ms

Below is generated by plot.py at 2018-12-20 04:17:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 384.60 Mbit/s
95th percentile per-packet one-way delay: 1.593 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 198.55 Mbit/s
95th percentile per-packet one-way delay: 1.510 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 194.40 Mbit/s
95th percentile per-packet one-way delay: 1.620 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 175.47 Mbit/s
95th percentile per-packet one-way delay: 1.722 ms
Loss rate: 0.07%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2018-12-20 01:57:30

End at: 2018-12-20 01:58:00

Local clock offset: 0.531 ms

Remote clock offset: 0.833 ms

Below is generated by plot.py at 2018-12-20 04:17:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.11 Mbit/s

95th percentile per-packet one-way delay: 1.027 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 48.52 Mbit/s

95th percentile per-packet one-way delay: 1.025 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 48.76 Mbit/s

95th percentile per-packet one-way delay: 1.031 ms

Loss rate: 0.03%

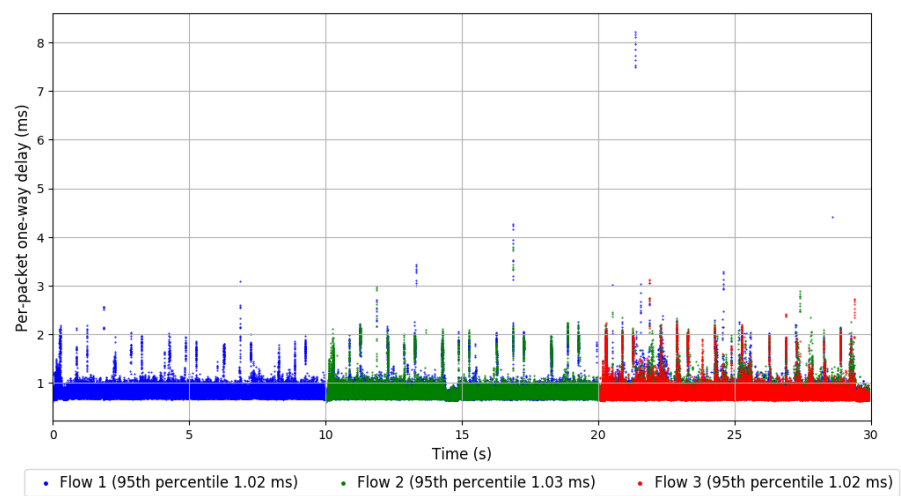
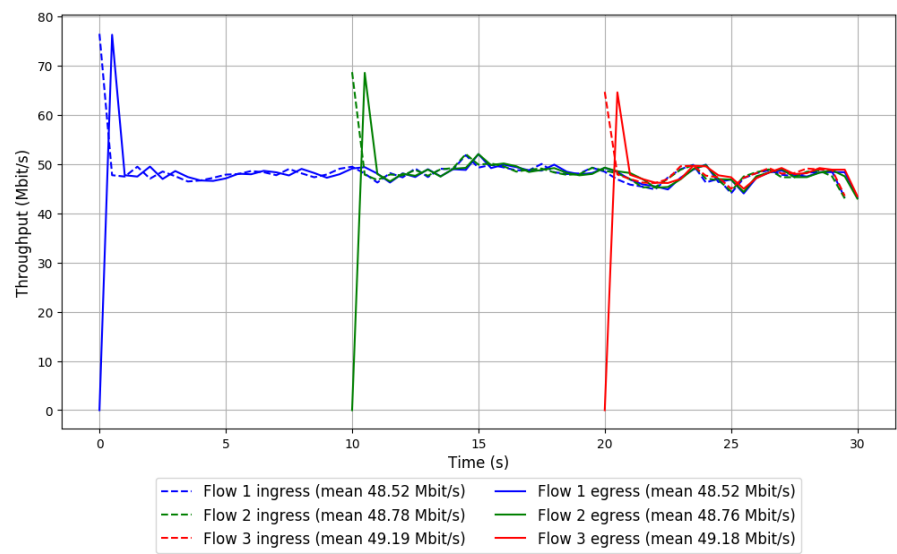
-- Flow 3:

Average throughput: 49.18 Mbit/s

95th percentile per-packet one-way delay: 1.025 ms

Loss rate: 0.01%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2018-12-20 02:24:23

End at: 2018-12-20 02:24:53

Local clock offset: 3.726 ms

Remote clock offset: 1.311 ms

Below is generated by plot.py at 2018-12-20 04:17:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.58 Mbit/s

95th percentile per-packet one-way delay: 1.254 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 47.60 Mbit/s

95th percentile per-packet one-way delay: 1.263 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 48.80 Mbit/s

95th percentile per-packet one-way delay: 1.256 ms

Loss rate: 0.01%

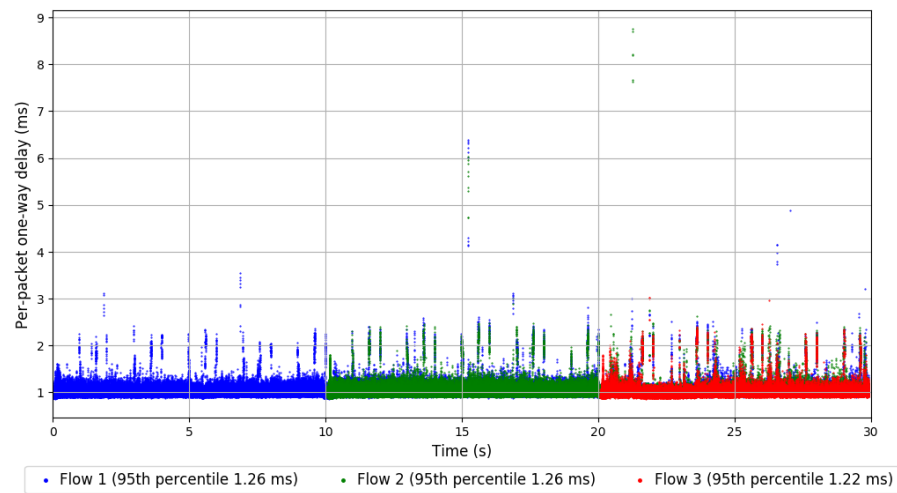
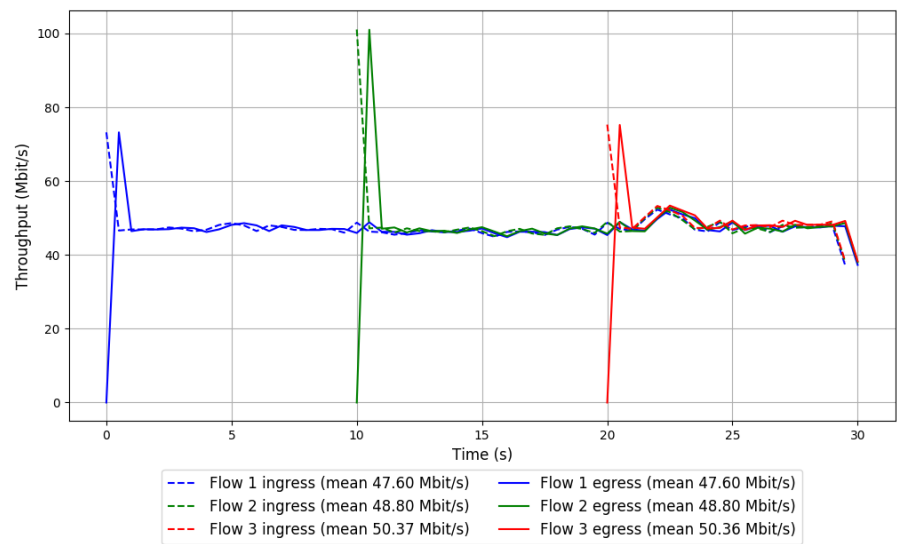
-- Flow 3:

Average throughput: 50.36 Mbit/s

95th percentile per-packet one-way delay: 1.217 ms

Loss rate: 0.01%

Run 2: Report of Indigo-MusesD — Data Link

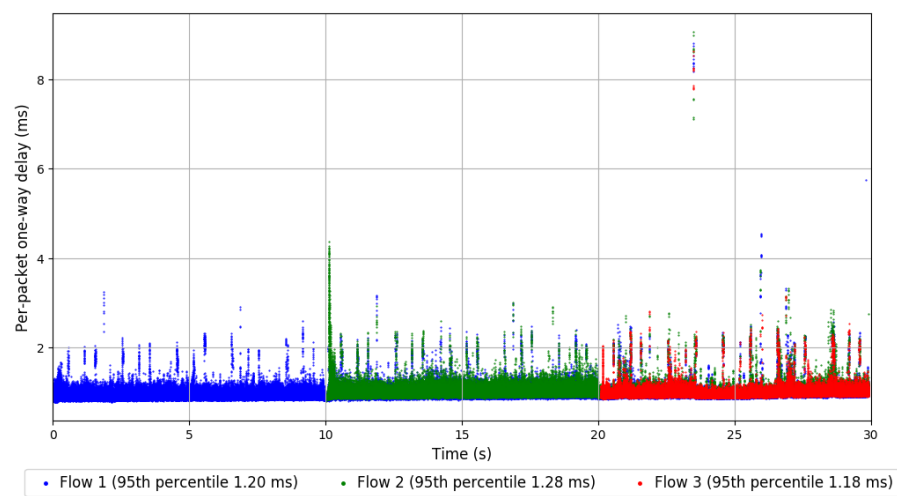
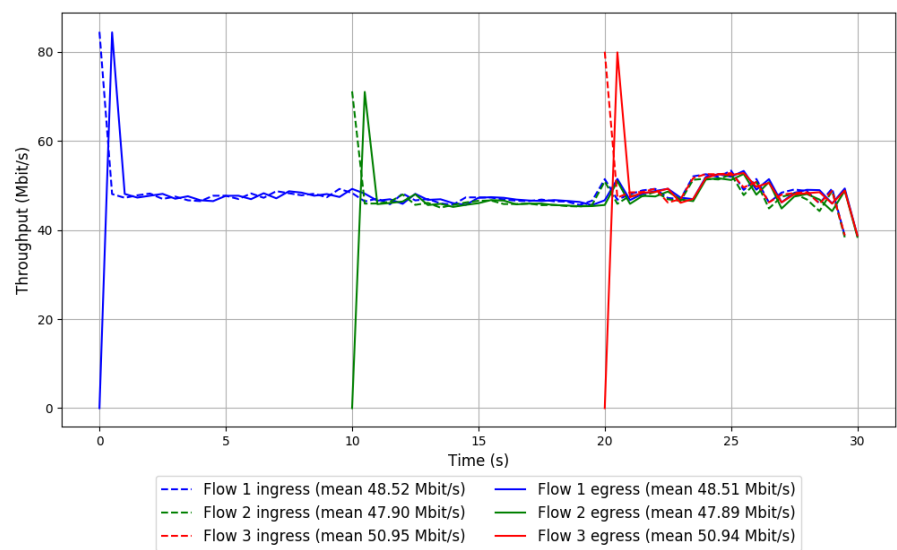


Run 3: Statistics of Indigo-MusesD

Start at: 2018-12-20 02:51:21
End at: 2018-12-20 02:51:51
Local clock offset: 5.206 ms
Remote clock offset: -2.678 ms

Below is generated by plot.py at 2018-12-20 04:17:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.06 Mbit/s
95th percentile per-packet one-way delay: 1.226 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 48.51 Mbit/s
95th percentile per-packet one-way delay: 1.197 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 47.89 Mbit/s
95th percentile per-packet one-way delay: 1.283 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 50.94 Mbit/s
95th percentile per-packet one-way delay: 1.182 ms
Loss rate: 0.01%

Run 3: Report of Indigo-MusesD — Data Link

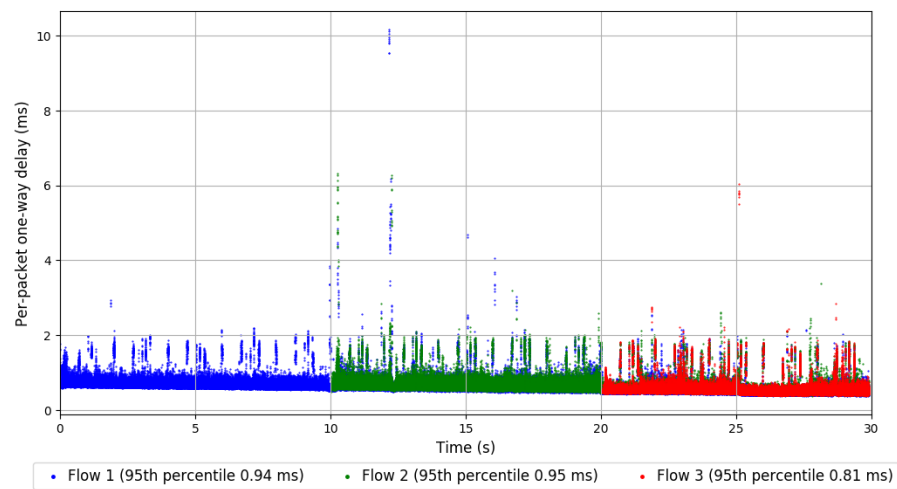
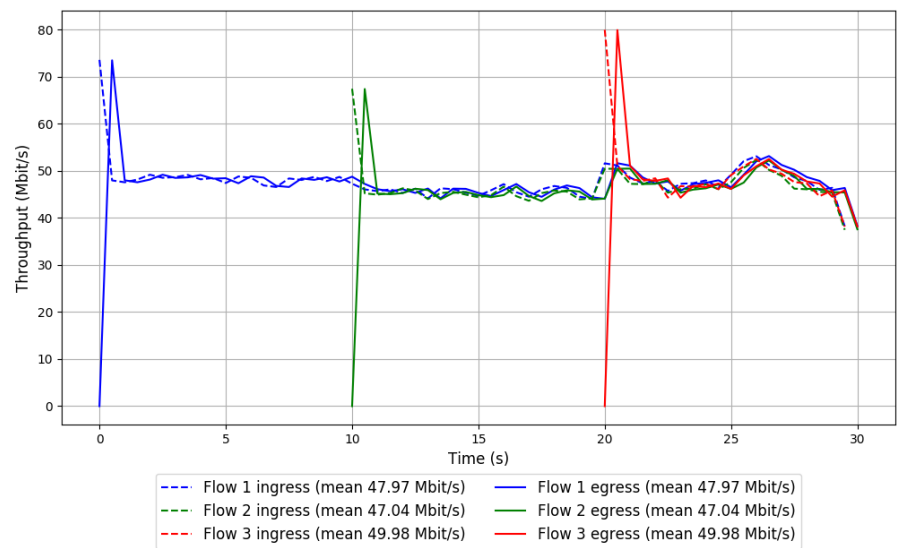


Run 4: Statistics of Indigo-MusesD

Start at: 2018-12-20 03:17:49
End at: 2018-12-20 03:18:19
Local clock offset: 0.876 ms
Remote clock offset: -2.171 ms

Below is generated by plot.py at 2018-12-20 04:17:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.66 Mbit/s
95th percentile per-packet one-way delay: 0.932 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 47.97 Mbit/s
95th percentile per-packet one-way delay: 0.941 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 47.04 Mbit/s
95th percentile per-packet one-way delay: 0.949 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 49.98 Mbit/s
95th percentile per-packet one-way delay: 0.808 ms
Loss rate: 0.00%

Run 4: Report of Indigo-MusesD — Data Link

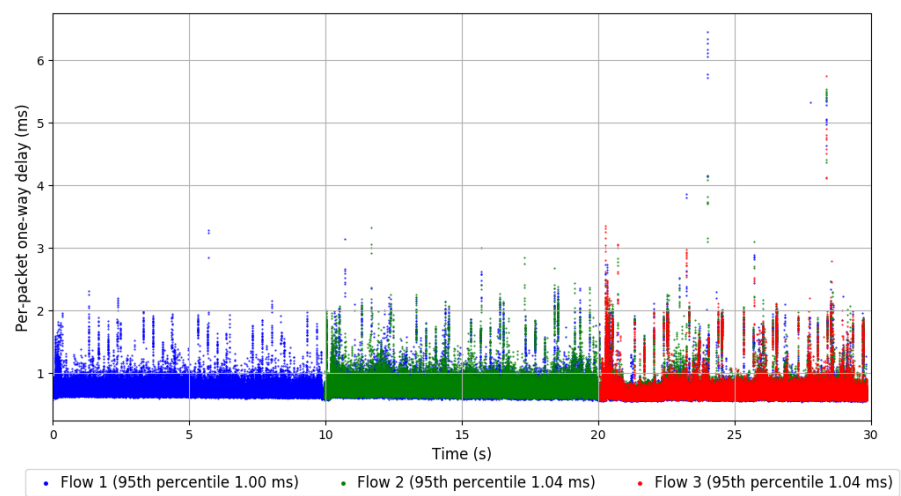
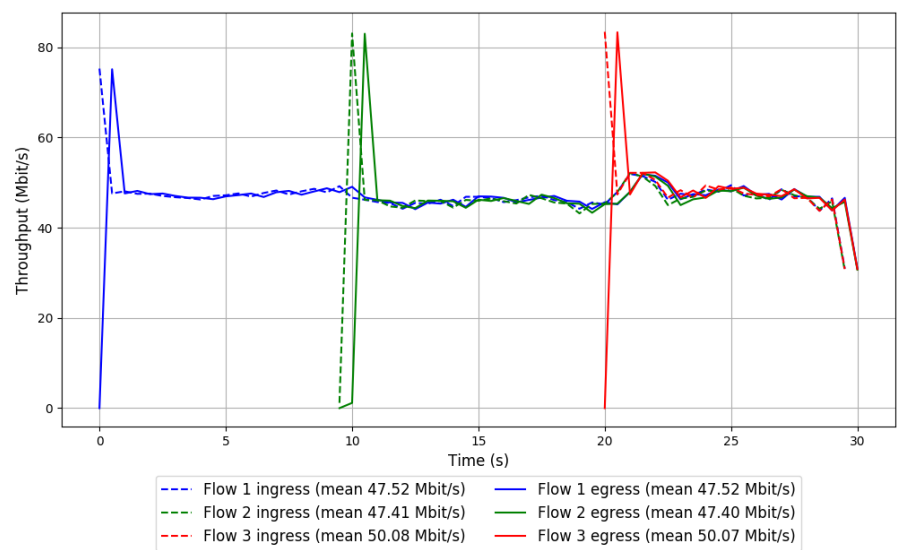


Run 5: Statistics of Indigo-MusesD

Start at: 2018-12-20 03:44:23
End at: 2018-12-20 03:44:53
Local clock offset: -2.785 ms
Remote clock offset: 0.249 ms

Below is generated by plot.py at 2018-12-20 04:17:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.50 Mbit/s
95th percentile per-packet one-way delay: 1.017 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 47.52 Mbit/s
95th percentile per-packet one-way delay: 0.996 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 47.40 Mbit/s
95th percentile per-packet one-way delay: 1.043 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 50.07 Mbit/s
95th percentile per-packet one-way delay: 1.045 ms
Loss rate: 0.02%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2018-12-20 01:47:12

End at: 2018-12-20 01:47:42

Local clock offset: 0.541 ms

Remote clock offset: 0.64 ms

Below is generated by plot.py at 2018-12-20 04:22:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 569.99 Mbit/s

95th percentile per-packet one-way delay: 6.506 ms

Loss rate: 2.08%

-- Flow 1:

Average throughput: 403.18 Mbit/s

95th percentile per-packet one-way delay: 6.883 ms

Loss rate: 1.76%

-- Flow 2:

Average throughput: 196.66 Mbit/s

95th percentile per-packet one-way delay: 2.419 ms

Loss rate: 1.61%

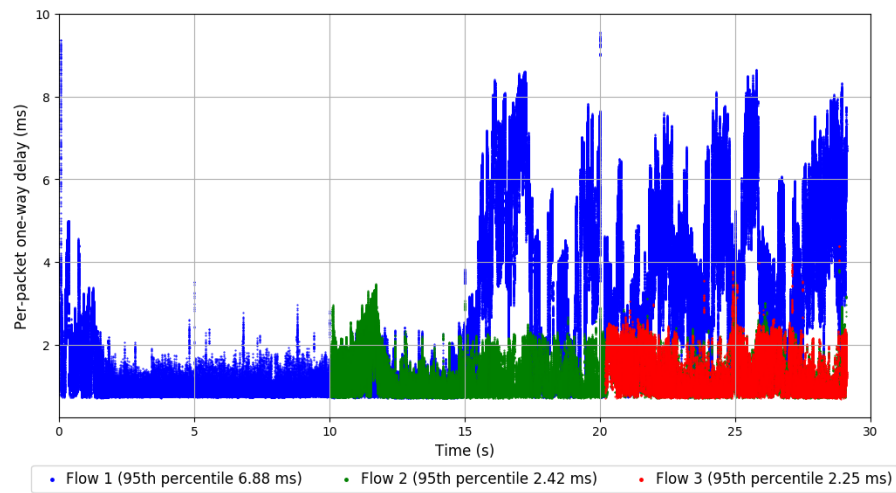
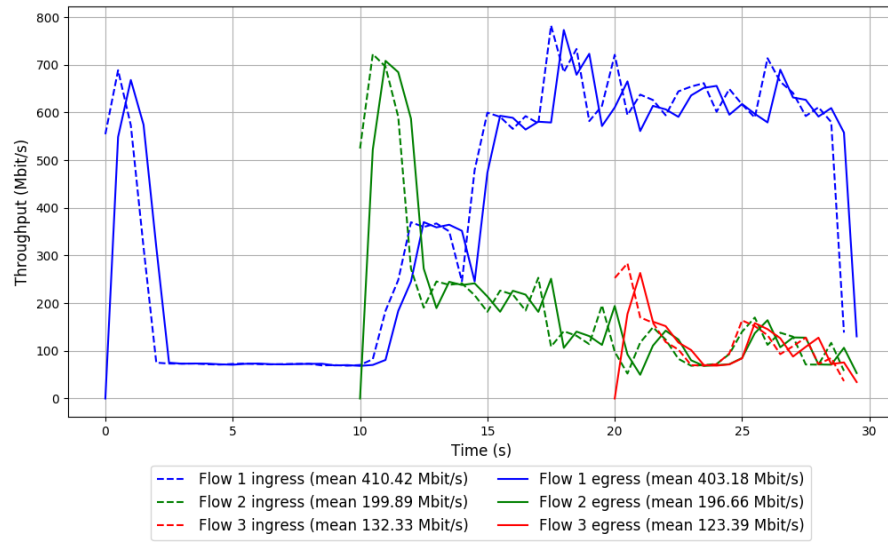
-- Flow 3:

Average throughput: 123.39 Mbit/s

95th percentile per-packet one-way delay: 2.246 ms

Loss rate: 6.79%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2018-12-20 02:14:03

End at: 2018-12-20 02:14:33

Local clock offset: 2.562 ms

Remote clock offset: 1.099 ms

Below is generated by plot.py at 2018-12-20 04:24:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 704.48 Mbit/s

95th percentile per-packet one-way delay: 5.740 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 543.05 Mbit/s

95th percentile per-packet one-way delay: 6.070 ms

Loss rate: 1.57%

-- Flow 2:

Average throughput: 126.51 Mbit/s

95th percentile per-packet one-way delay: 2.383 ms

Loss rate: 2.00%

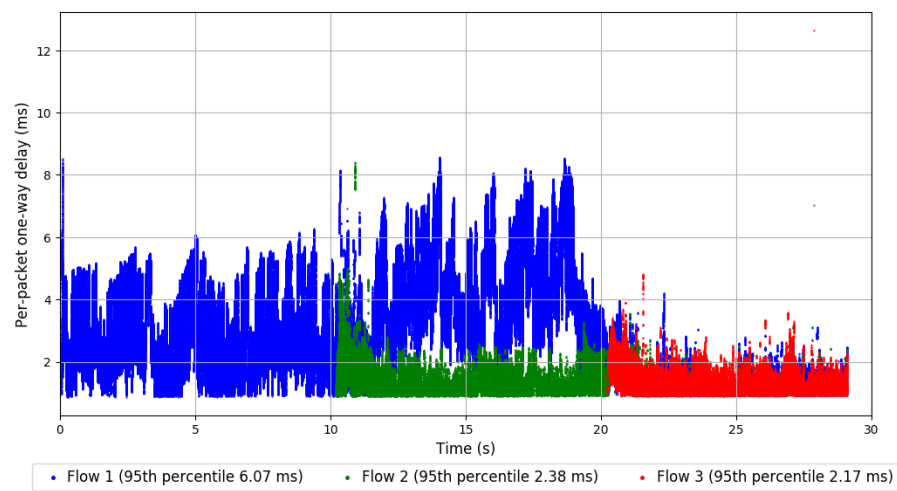
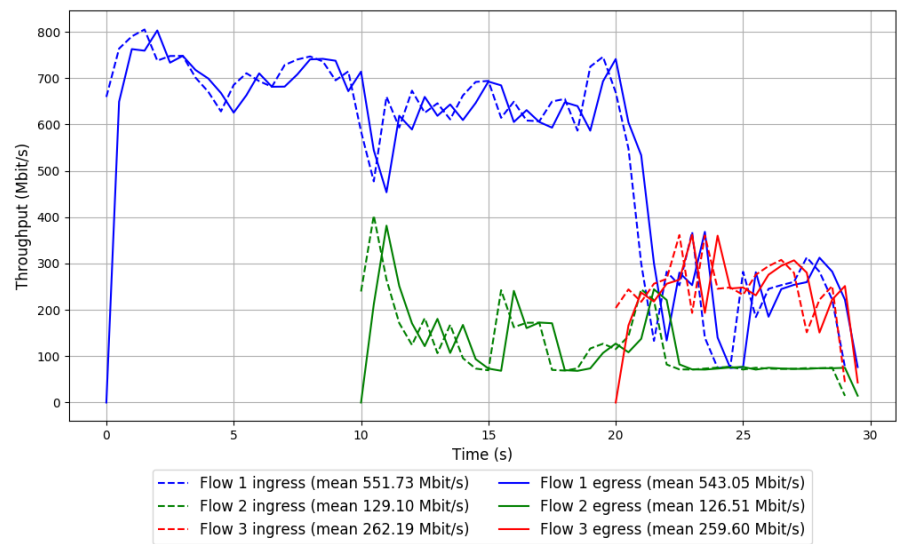
-- Flow 3:

Average throughput: 259.60 Mbit/s

95th percentile per-packet one-way delay: 2.175 ms

Loss rate: 0.99%

Run 2: Report of Indigo-MusesT — Data Link

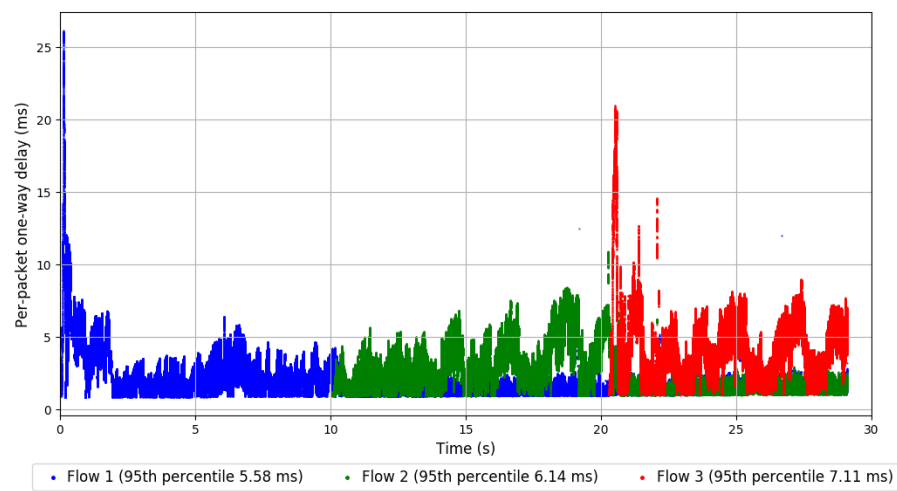
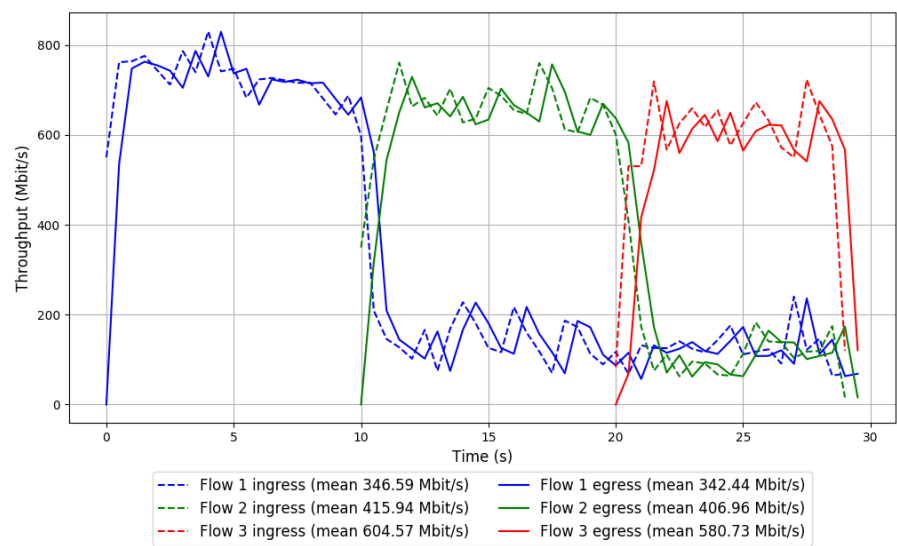


Run 3: Statistics of Indigo-MusesT

Start at: 2018-12-20 02:40:53
End at: 2018-12-20 02:41:23
Local clock offset: 4.718 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-12-20 04:25:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 784.92 Mbit/s
95th percentile per-packet one-way delay: 6.436 ms
Loss rate: 2.15%
-- Flow 1:
Average throughput: 342.44 Mbit/s
95th percentile per-packet one-way delay: 5.584 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 406.96 Mbit/s
95th percentile per-packet one-way delay: 6.142 ms
Loss rate: 2.15%
-- Flow 3:
Average throughput: 580.73 Mbit/s
95th percentile per-packet one-way delay: 7.112 ms
Loss rate: 3.94%

Run 3: Report of Indigo-MusesT — Data Link

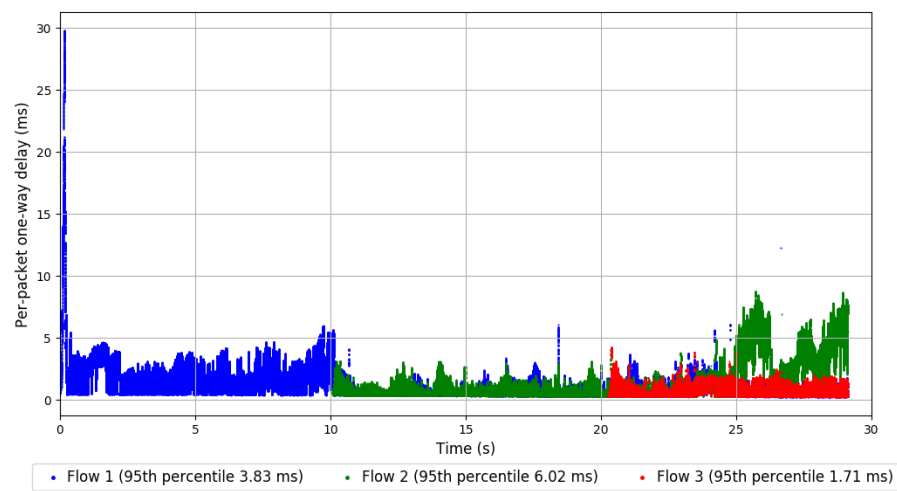
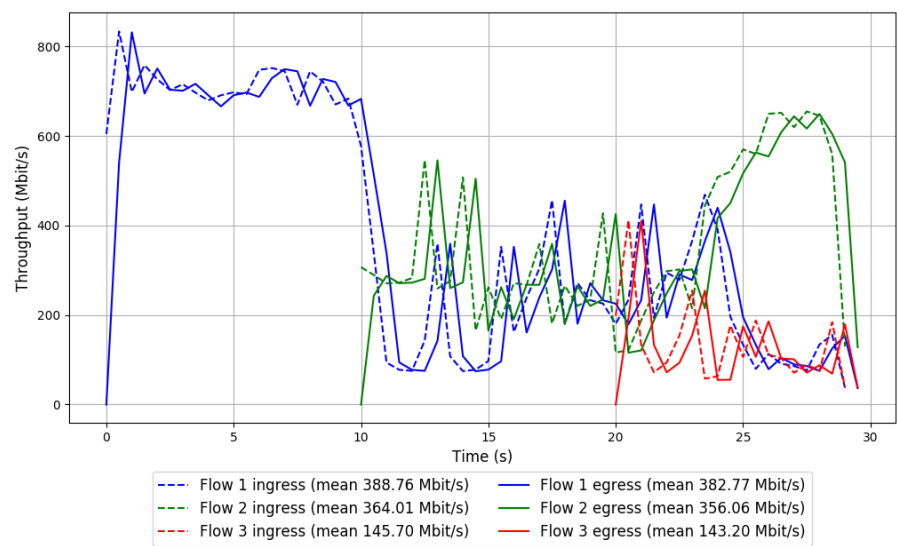


Run 4: Statistics of Indigo-MusesT

Start at: 2018-12-20 03:07:32
End at: 2018-12-20 03:08:02
Local clock offset: 4.595 ms
Remote clock offset: -4.468 ms

Below is generated by plot.py at 2018-12-20 04:25:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 659.17 Mbit/s
95th percentile per-packet one-way delay: 4.805 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 382.77 Mbit/s
95th percentile per-packet one-way delay: 3.827 ms
Loss rate: 1.54%
-- Flow 2:
Average throughput: 356.06 Mbit/s
95th percentile per-packet one-way delay: 6.024 ms
Loss rate: 2.18%
-- Flow 3:
Average throughput: 143.20 Mbit/s
95th percentile per-packet one-way delay: 1.707 ms
Loss rate: 1.71%

Run 4: Report of Indigo-MusesT — Data Link

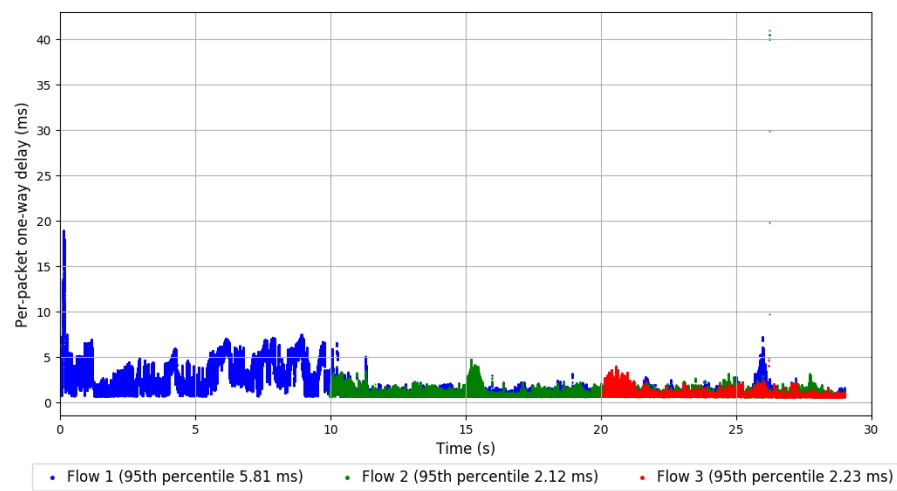
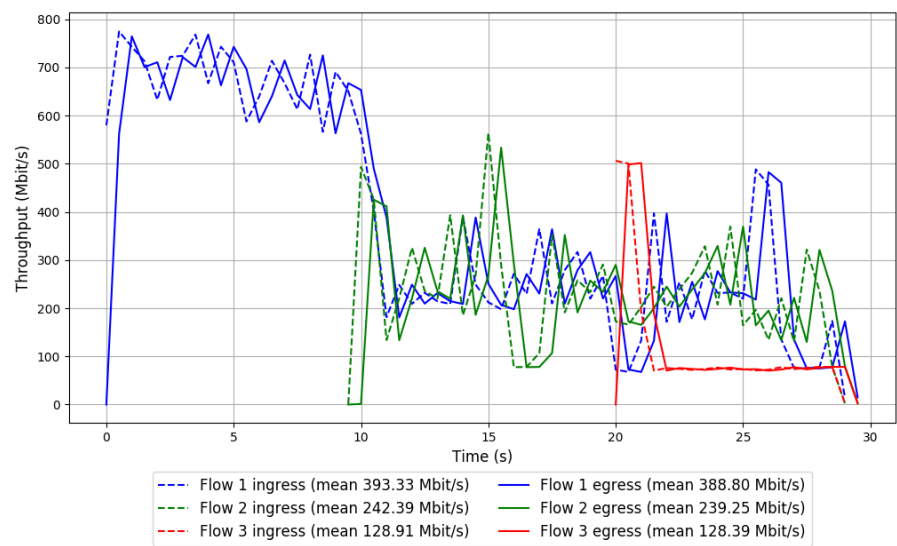


Run 5: Statistics of Indigo-MusesT

Start at: 2018-12-20 03:34:07
End at: 2018-12-20 03:34:37
Local clock offset: -1.258 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-12-20 04:25:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 585.68 Mbit/s
95th percentile per-packet one-way delay: 5.441 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 388.80 Mbit/s
95th percentile per-packet one-way delay: 5.812 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 239.25 Mbit/s
95th percentile per-packet one-way delay: 2.124 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 128.39 Mbit/s
95th percentile per-packet one-way delay: 2.225 ms
Loss rate: 0.41%

Run 5: Report of Indigo-MusesT — Data Link

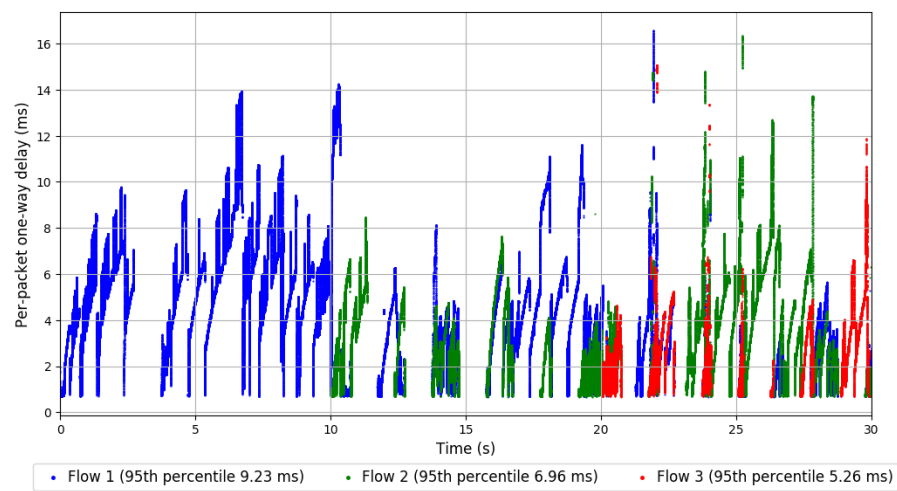
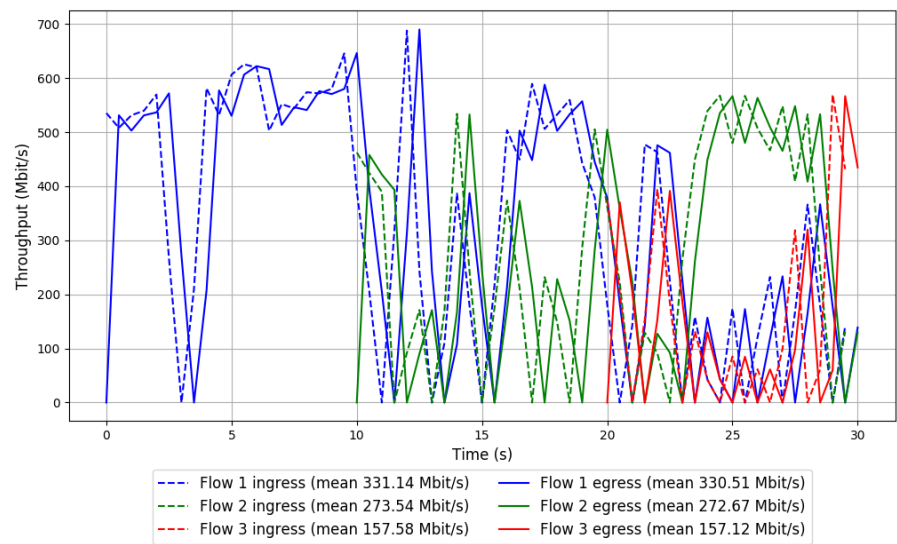



```
Run 1: Statistics of LEDBAT

Start at: 2018-12-20 01:49:59
End at: 2018-12-20 01:50:29
Local clock offset: 0.525 ms
Remote clock offset: 0.658 ms

# Below is generated by plot.py at 2018-12-20 04:25:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 563.90 Mbit/s
95th percentile per-packet one-way delay: 8.512 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 330.51 Mbit/s
95th percentile per-packet one-way delay: 9.231 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 272.67 Mbit/s
95th percentile per-packet one-way delay: 6.955 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 157.12 Mbit/s
95th percentile per-packet one-way delay: 5.261 ms
Loss rate: 0.29%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-12-20 02:16:54

End at: 2018-12-20 02:17:24

Local clock offset: 2.999 ms

Remote clock offset: 1.146 ms

Below is generated by plot.py at 2018-12-20 04:25:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 473.35 Mbit/s

95th percentile per-packet one-way delay: 7.014 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 273.30 Mbit/s

95th percentile per-packet one-way delay: 7.408 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 218.04 Mbit/s

95th percentile per-packet one-way delay: 6.380 ms

Loss rate: 0.35%

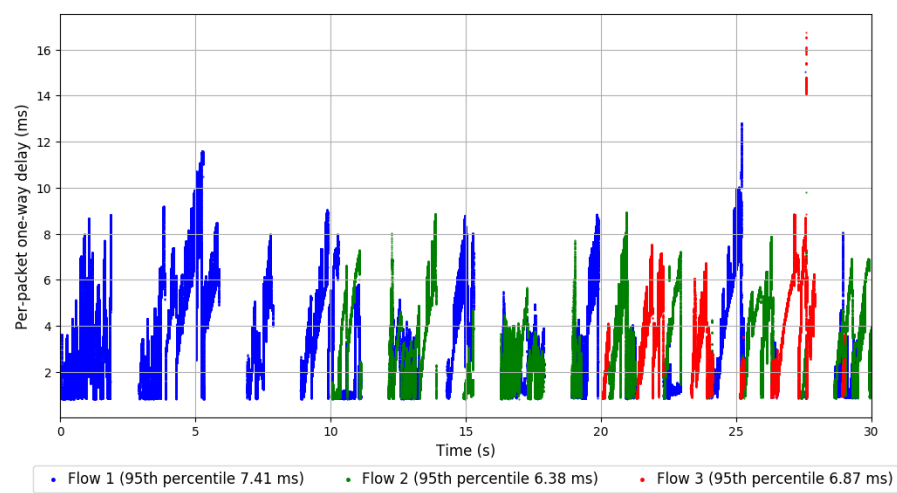
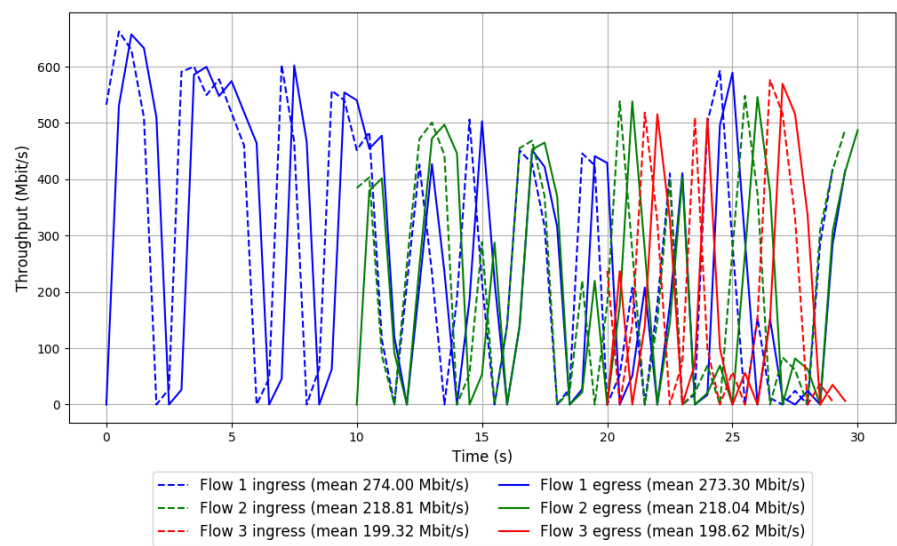
-- Flow 3:

Average throughput: 198.62 Mbit/s

95th percentile per-packet one-way delay: 6.873 ms

Loss rate: 0.34%

Run 2: Report of LEDBAT — Data Link

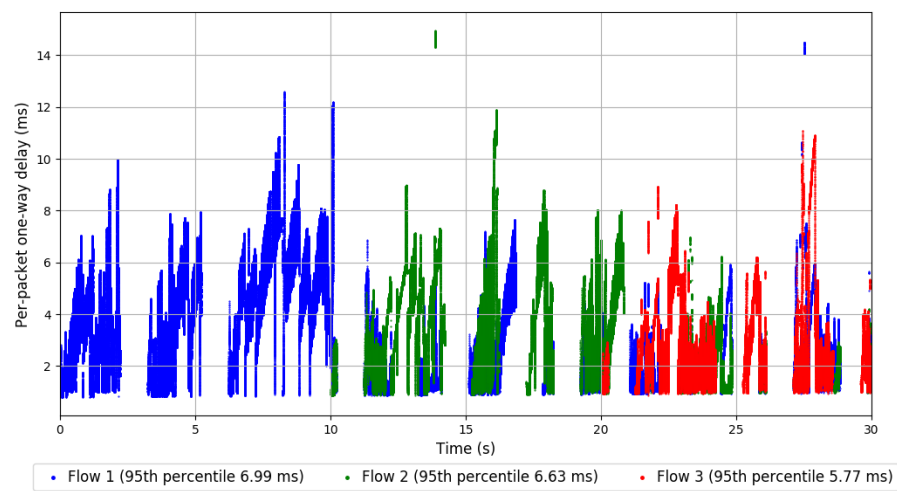
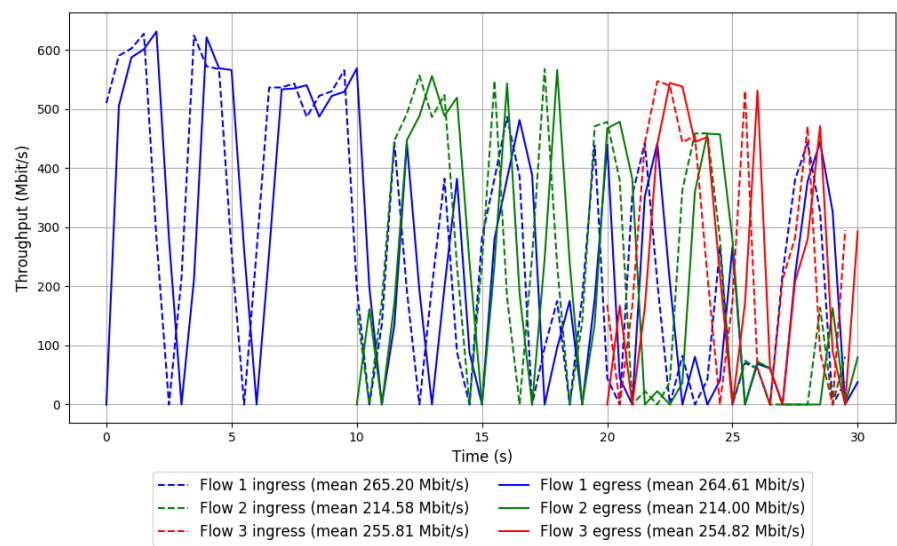


Run 3: Statistics of LEDBAT

Start at: 2018-12-20 02:43:47
End at: 2018-12-20 02:44:17
Local clock offset: 4.862 ms
Remote clock offset: -1.037 ms

Below is generated by plot.py at 2018-12-20 04:25:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 491.43 Mbit/s
95th percentile per-packet one-way delay: 6.787 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 264.61 Mbit/s
95th percentile per-packet one-way delay: 6.992 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 214.00 Mbit/s
95th percentile per-packet one-way delay: 6.635 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 254.82 Mbit/s
95th percentile per-packet one-way delay: 5.766 ms
Loss rate: 0.38%

Run 3: Report of LEDBAT — Data Link

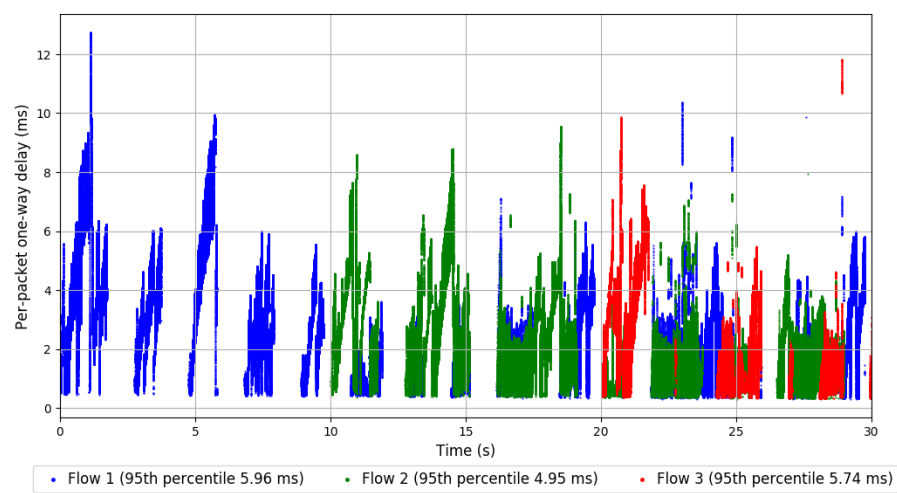
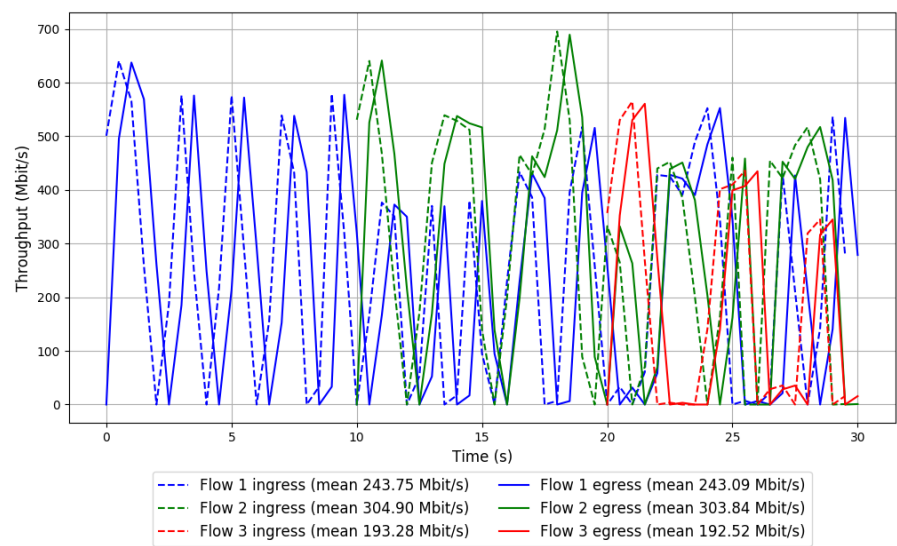


Run 4: Statistics of LEDBAT

Start at: 2018-12-20 03:10:21
End at: 2018-12-20 03:10:51
Local clock offset: 3.273 ms
Remote clock offset: -4.674 ms

Below is generated by plot.py at 2018-12-20 04:28:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 507.49 Mbit/s
95th percentile per-packet one-way delay: 5.620 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 243.09 Mbit/s
95th percentile per-packet one-way delay: 5.960 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 303.84 Mbit/s
95th percentile per-packet one-way delay: 4.947 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 192.52 Mbit/s
95th percentile per-packet one-way delay: 5.735 ms
Loss rate: 0.38%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-12-20 03:36:53

End at: 2018-12-20 03:37:23

Local clock offset: -1.655 ms

Remote clock offset: 0.169 ms

Below is generated by plot.py at 2018-12-20 04:28:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 457.18 Mbit/s

95th percentile per-packet one-way delay: 7.467 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 239.44 Mbit/s

95th percentile per-packet one-way delay: 7.911 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 229.67 Mbit/s

95th percentile per-packet one-way delay: 7.321 ms

Loss rate: 0.28%

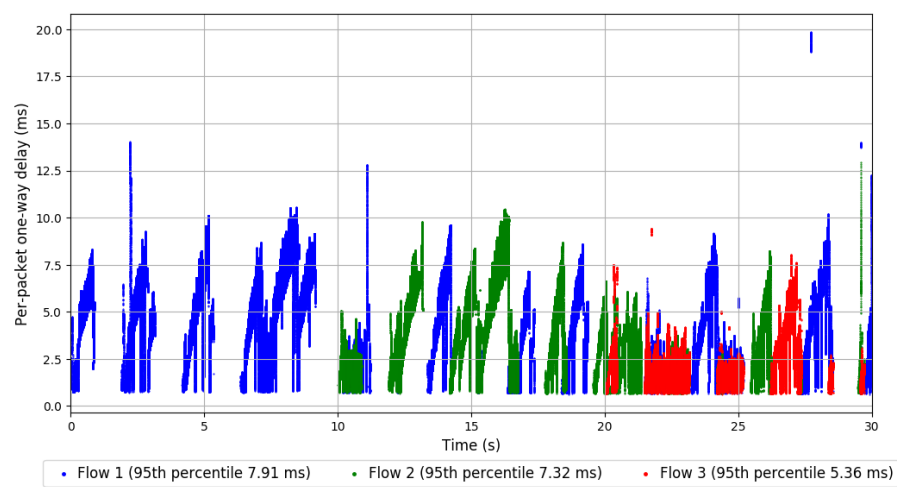
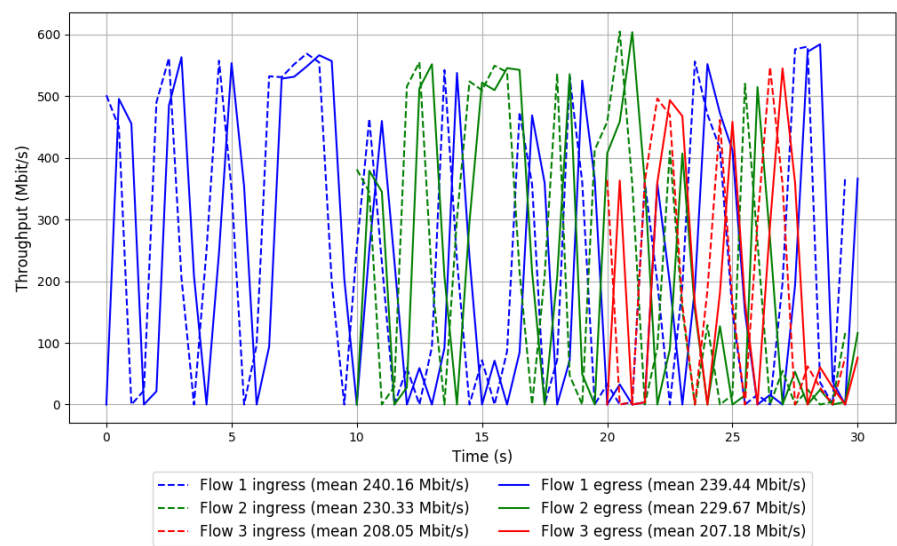
-- Flow 3:

Average throughput: 207.18 Mbit/s

95th percentile per-packet one-way delay: 5.363 ms

Loss rate: 0.42%

Run 5: Report of LEDBAT — Data Link

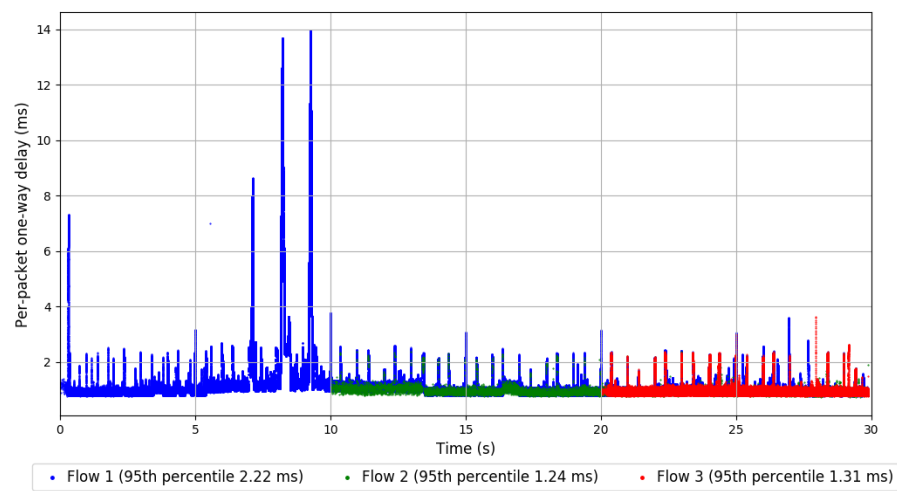
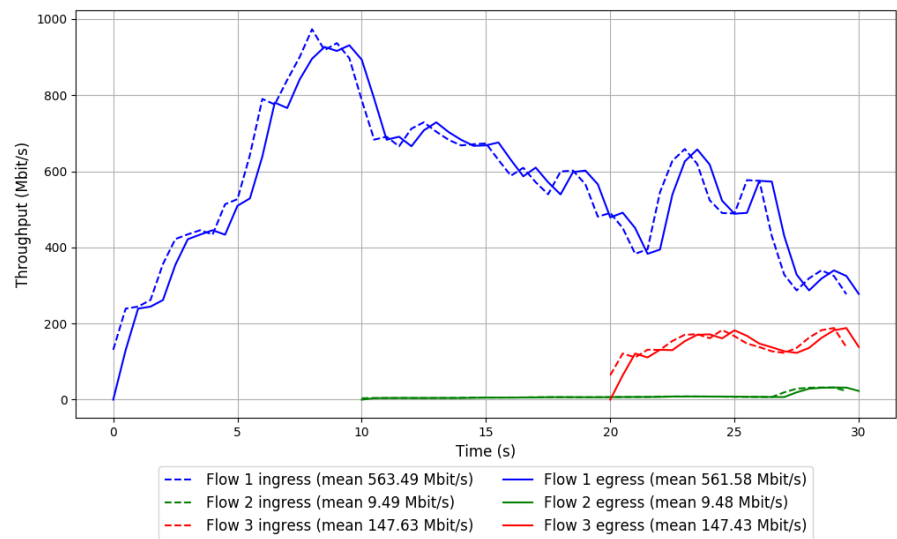


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-12-20 01:45:44
End at: 2018-12-20 01:46:14
Local clock offset: 0.557 ms
Remote clock offset: 0.684 ms

# Below is generated by plot.py at 2018-12-20 04:30:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 616.50 Mbit/s
95th percentile per-packet one-way delay: 2.162 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 561.58 Mbit/s
95th percentile per-packet one-way delay: 2.221 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 9.48 Mbit/s
95th percentile per-packet one-way delay: 1.235 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 147.43 Mbit/s
95th percentile per-packet one-way delay: 1.312 ms
Loss rate: 0.13%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-12-20 02:12:37

End at: 2018-12-20 02:13:07

Local clock offset: 2.332 ms

Remote clock offset: 1.004 ms

Below is generated by plot.py at 2018-12-20 04:30:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 513.90 Mbit/s

95th percentile per-packet one-way delay: 2.242 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 180.36 Mbit/s

95th percentile per-packet one-way delay: 2.203 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 488.67 Mbit/s

95th percentile per-packet one-way delay: 2.263 ms

Loss rate: 0.55%

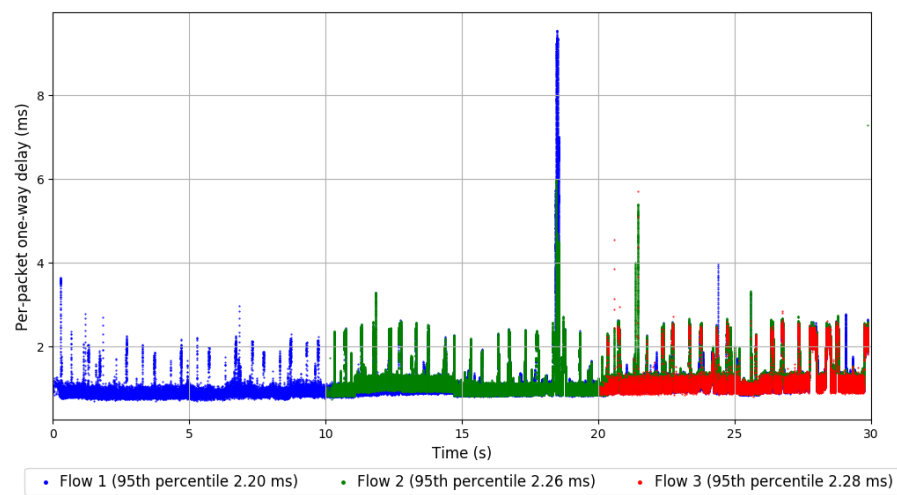
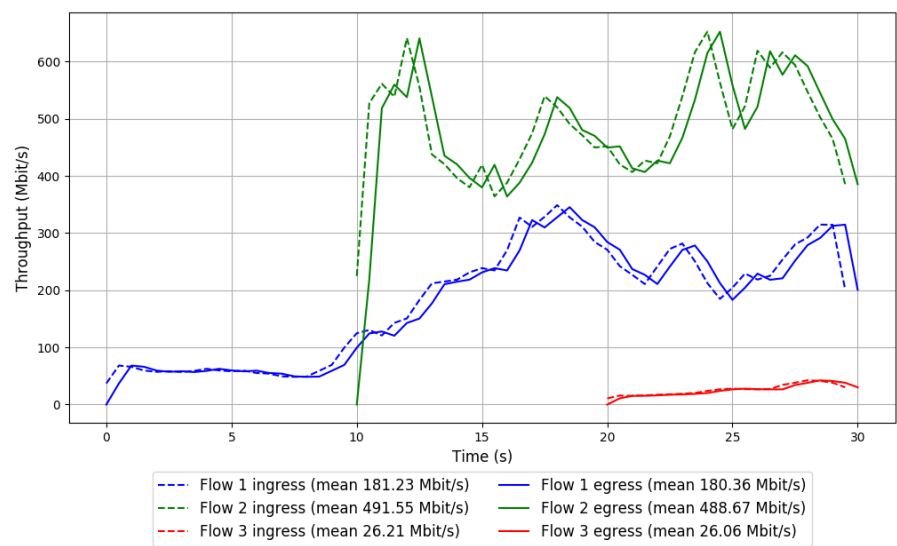
-- Flow 3:

Average throughput: 26.06 Mbit/s

95th percentile per-packet one-way delay: 2.280 ms

Loss rate: 0.55%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-12-20 02:39:28

End at: 2018-12-20 02:39:58

Local clock offset: 4.66 ms

Remote clock offset: 0.611 ms

Below is generated by plot.py at 2018-12-20 04:30:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 467.64 Mbit/s

95th percentile per-packet one-way delay: 2.536 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 138.44 Mbit/s

95th percentile per-packet one-way delay: 2.548 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 490.36 Mbit/s

95th percentile per-packet one-way delay: 2.529 ms

Loss rate: 0.47%

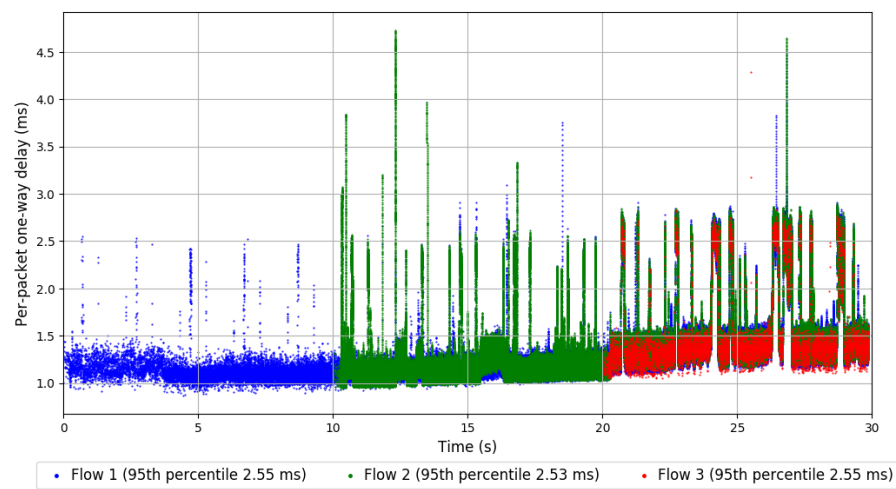
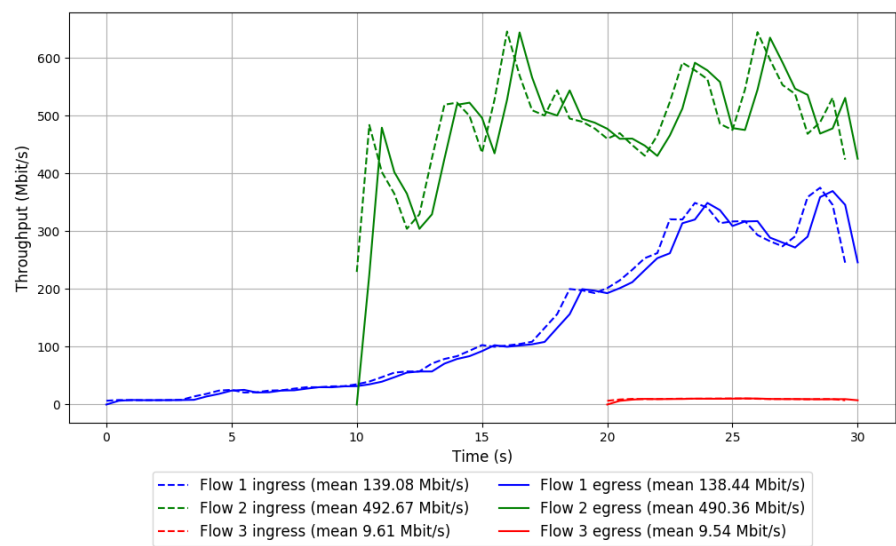
-- Flow 3:

Average throughput: 9.54 Mbit/s

95th percentile per-packet one-way delay: 2.553 ms

Loss rate: 0.84%

Run 3: Report of PCC-Allegro — Data Link

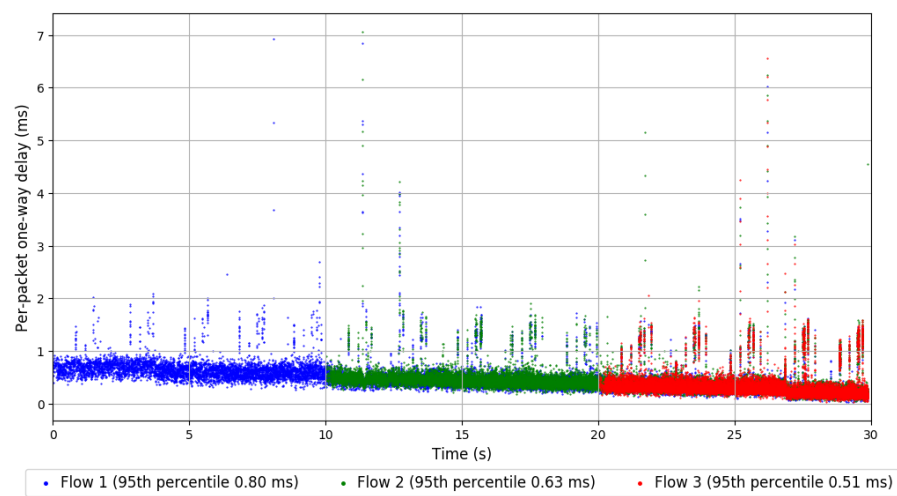
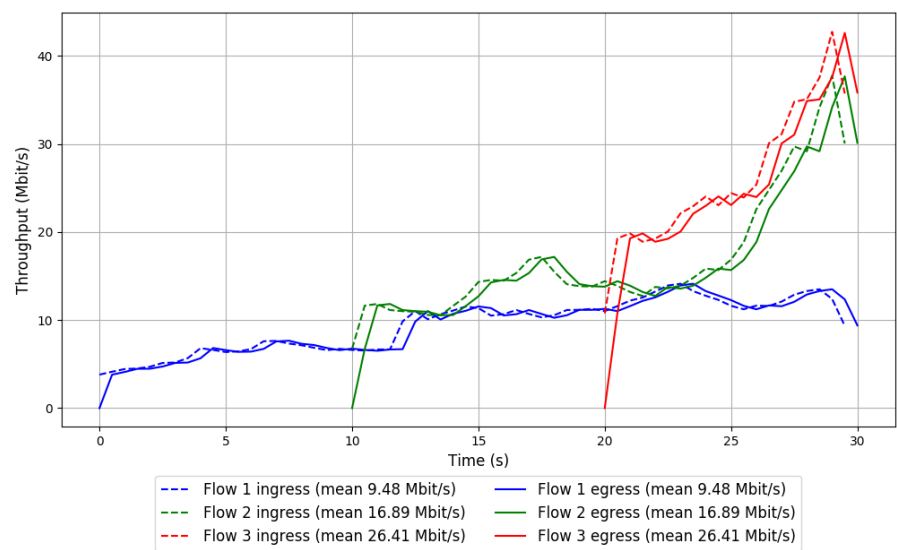


Run 4: Statistics of PCC-Allegro

Start at: 2018-12-20 03:06:17
End at: 2018-12-20 03:06:47
Local clock offset: 5.481 ms
Remote clock offset: -4.306 ms

Below is generated by plot.py at 2018-12-20 04:30:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 29.43 Mbit/s
95th percentile per-packet one-way delay: 0.727 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 9.48 Mbit/s
95th percentile per-packet one-way delay: 0.795 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 16.89 Mbit/s
95th percentile per-packet one-way delay: 0.630 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 26.41 Mbit/s
95th percentile per-packet one-way delay: 0.508 ms
Loss rate: 0.00%

Run 4: Report of PCC-Allegro — Data Link

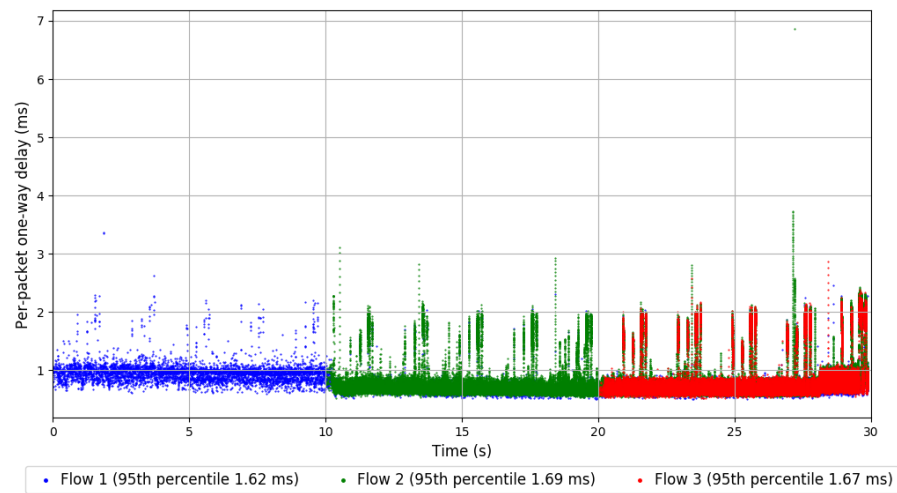
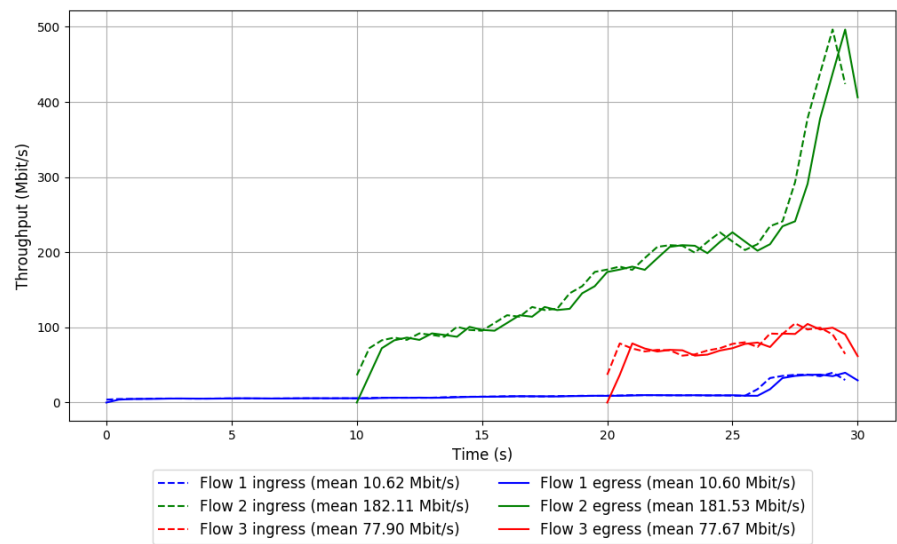


Run 5: Statistics of PCC-Allegro

Start at: 2018-12-20 03:32:49
End at: 2018-12-20 03:33:19
Local clock offset: -1.176 ms
Remote clock offset: -0.167 ms

Below is generated by plot.py at 2018-12-20 04:30:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 156.94 Mbit/s
95th percentile per-packet one-way delay: 1.680 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 10.60 Mbit/s
95th percentile per-packet one-way delay: 1.622 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 181.53 Mbit/s
95th percentile per-packet one-way delay: 1.689 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 77.67 Mbit/s
95th percentile per-packet one-way delay: 1.669 ms
Loss rate: 0.31%

Run 5: Report of PCC-Allegro — Data Link

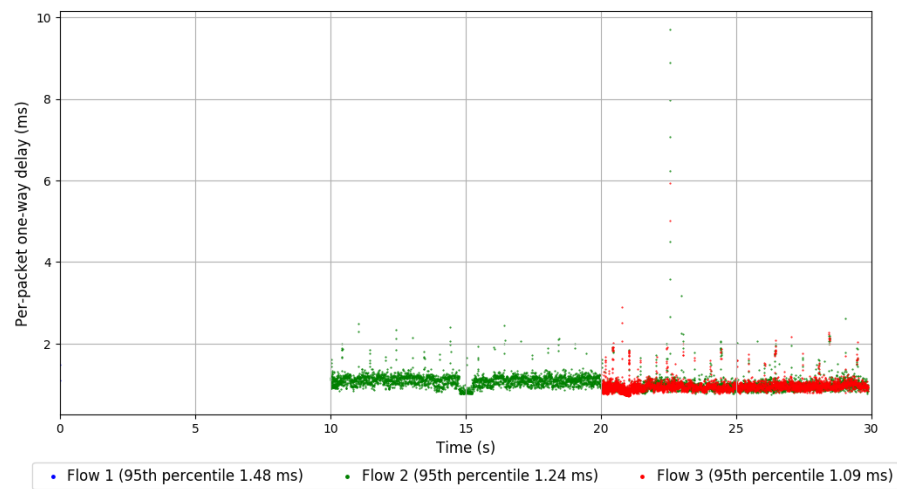
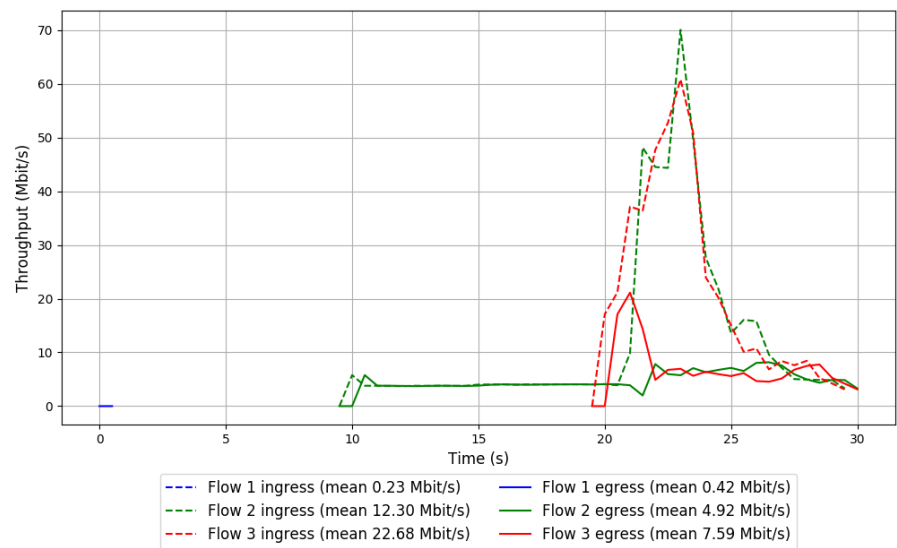


```
Run 1: Statistics of PCC-Expr

Start at: 2018-12-20 01:44:30
End at: 2018-12-20 01:45:00
Local clock offset: 0.551 ms
Remote clock offset: 0.596 ms

# Below is generated by plot.py at 2018-12-20 04:30:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.78 Mbit/s
95th percentile per-packet one-way delay: 1.210 ms
Loss rate: 63.13%
-- Flow 1:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 1.478 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 4.92 Mbit/s
95th percentile per-packet one-way delay: 1.237 ms
Loss rate: 60.03%
-- Flow 3:
Average throughput: 7.59 Mbit/s
95th percentile per-packet one-way delay: 1.095 ms
Loss rate: 66.53%
```

Run 1: Report of PCC-Expr — Data Link

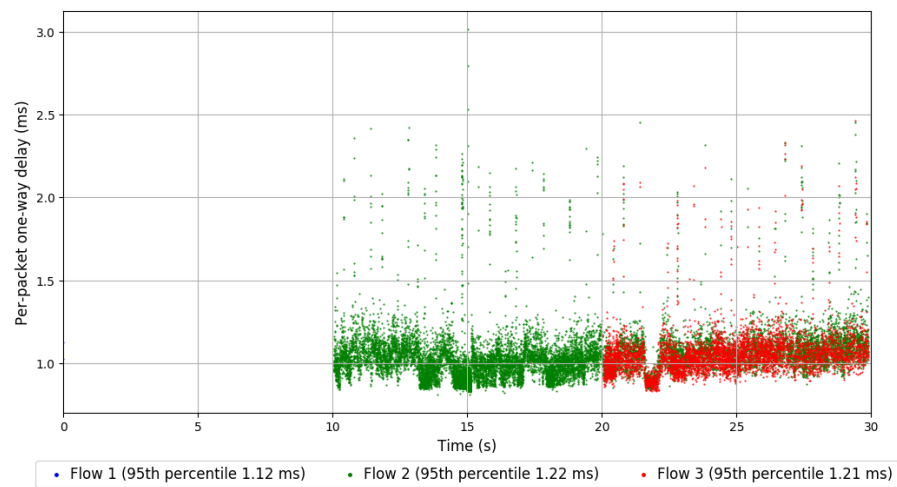
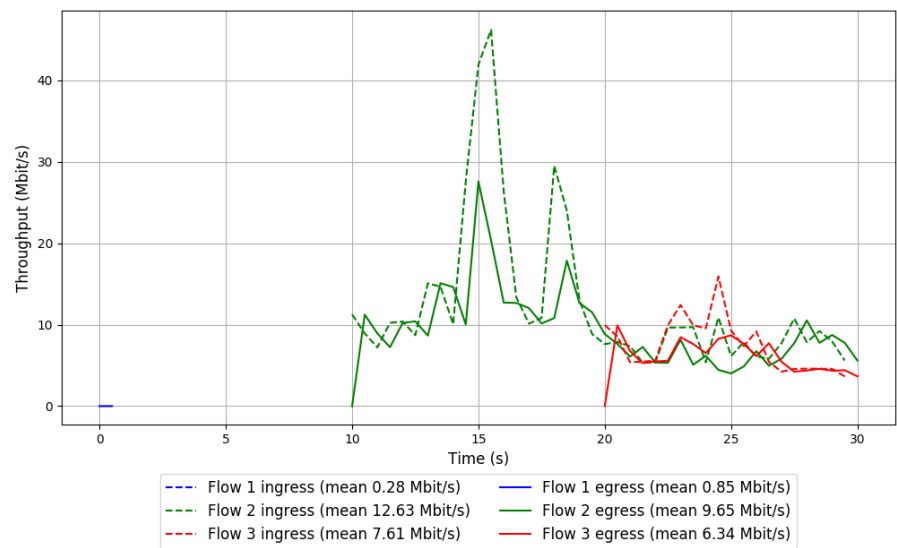


```
Run 2: Statistics of PCC-Expr

Start at: 2018-12-20 02:11:23
End at: 2018-12-20 02:11:53
Local clock offset: 2.118 ms
Remote clock offset: 0.984 ms

# Below is generated by plot.py at 2018-12-20 04:30:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.52 Mbit/s
95th percentile per-packet one-way delay: 1.215 ms
Loss rate: 21.99%
-- Flow 1:
Average throughput: 0.85 Mbit/s
95th percentile per-packet one-way delay: 1.125 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 9.65 Mbit/s
95th percentile per-packet one-way delay: 1.218 ms
Loss rate: 23.58%
-- Flow 3:
Average throughput: 6.34 Mbit/s
95th percentile per-packet one-way delay: 1.209 ms
Loss rate: 16.67%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-12-20 02:38:14

End at: 2018-12-20 02:38:44

Local clock offset: 4.548 ms

Remote clock offset: 1.244 ms

Below is generated by plot.py at 2018-12-20 04:30:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.84 Mbit/s

95th percentile per-packet one-way delay: 1.523 ms

Loss rate: 48.94%

-- Flow 1:

Average throughput: 0.73 Mbit/s

95th percentile per-packet one-way delay: 1.652 ms

Loss rate: 85.71%

-- Flow 2:

Average throughput: 9.18 Mbit/s

95th percentile per-packet one-way delay: 1.503 ms

Loss rate: 43.15%

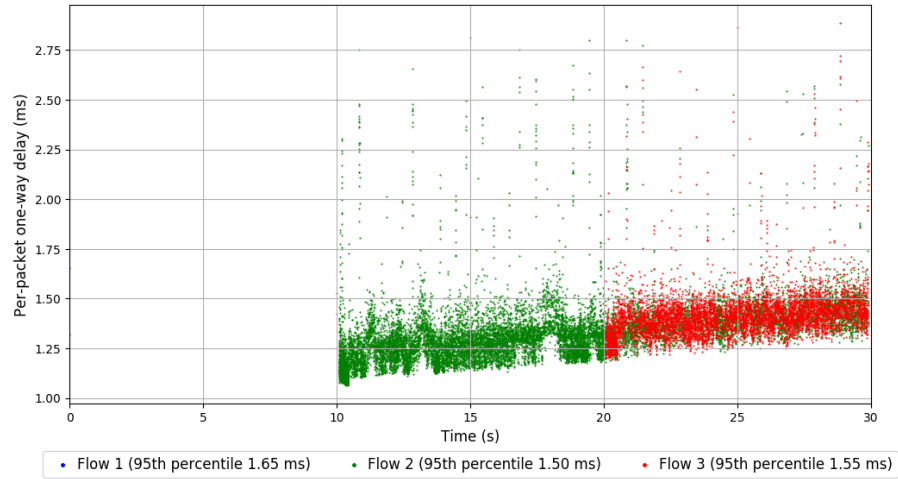
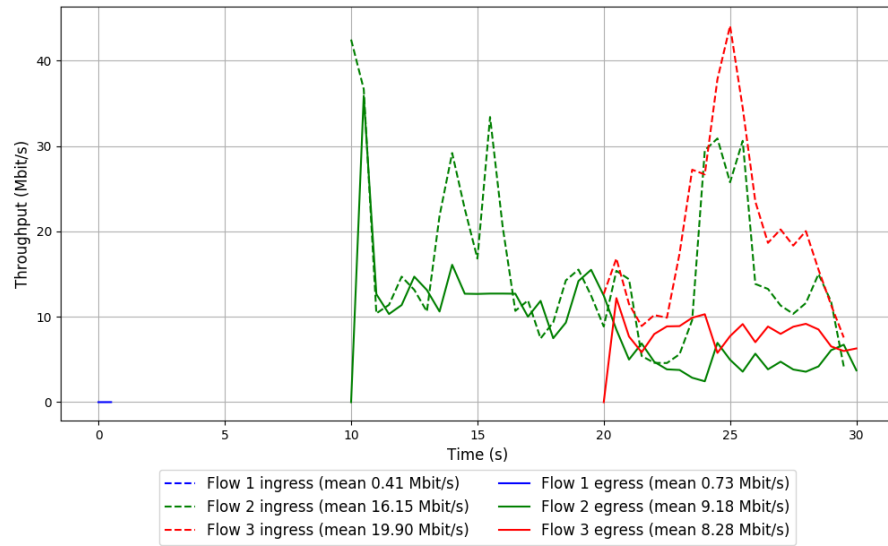
-- Flow 3:

Average throughput: 8.28 Mbit/s

95th percentile per-packet one-way delay: 1.547 ms

Loss rate: 58.38%

Run 3: Report of PCC-Expr — Data Link

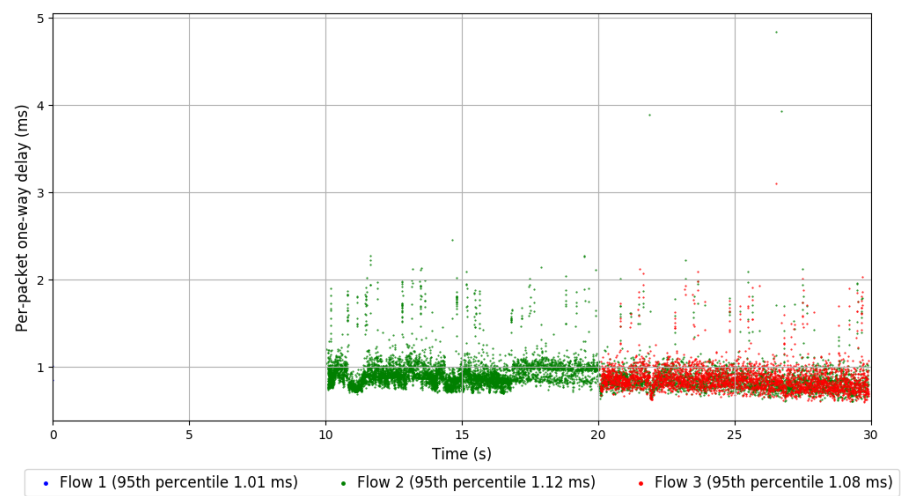
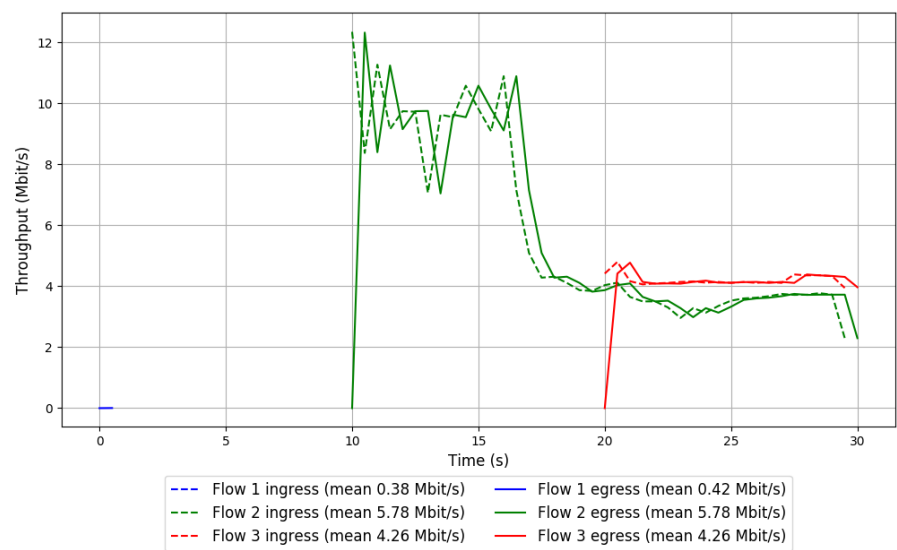


Run 4: Statistics of PCC-Expr

Start at: 2018-12-20 03:05:03
End at: 2018-12-20 03:05:33
Local clock offset: 5.825 ms
Remote clock offset: -4.261 ms

Below is generated by plot.py at 2018-12-20 04:30:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.25 Mbit/s
95th percentile per-packet one-way delay: 1.111 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 1.012 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 5.78 Mbit/s
95th percentile per-packet one-way delay: 1.120 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 4.26 Mbit/s
95th percentile per-packet one-way delay: 1.081 ms
Loss rate: 0.06%

Run 4: Report of PCC-Expr — Data Link

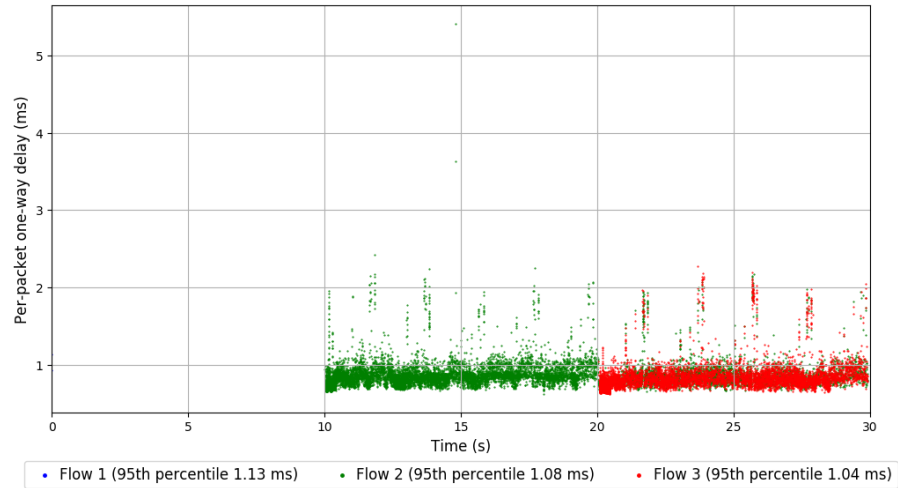
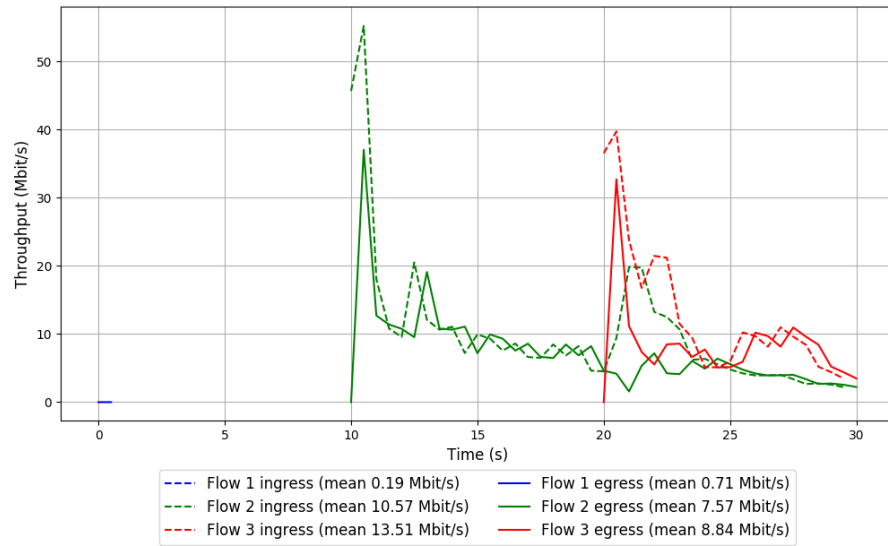


Run 5: Statistics of PCC-Expr

Start at: 2018-12-20 03:31:35
End at: 2018-12-20 03:32:05
Local clock offset: -1.056 ms
Remote clock offset: -0.194 ms

Below is generated by plot.py at 2018-12-20 04:30:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.95 Mbit/s
95th percentile per-packet one-way delay: 1.065 ms
Loss rate: 30.80%
-- Flow 1:
Average throughput: 0.71 Mbit/s
95th percentile per-packet one-way delay: 1.130 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 7.57 Mbit/s
95th percentile per-packet one-way delay: 1.076 ms
Loss rate: 28.38%
-- Flow 3:
Average throughput: 8.84 Mbit/s
95th percentile per-packet one-way delay: 1.039 ms
Loss rate: 34.60%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-12-20 01:38:55

End at: 2018-12-20 01:39:25

Local clock offset: 0.645 ms

Remote clock offset: 0.642 ms

Below is generated by plot.py at 2018-12-20 04:30:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.41 Mbit/s

95th percentile per-packet one-way delay: 2.681 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 63.51 Mbit/s

95th percentile per-packet one-way delay: 1.378 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 57.09 Mbit/s

95th percentile per-packet one-way delay: 1.339 ms

Loss rate: 0.02%

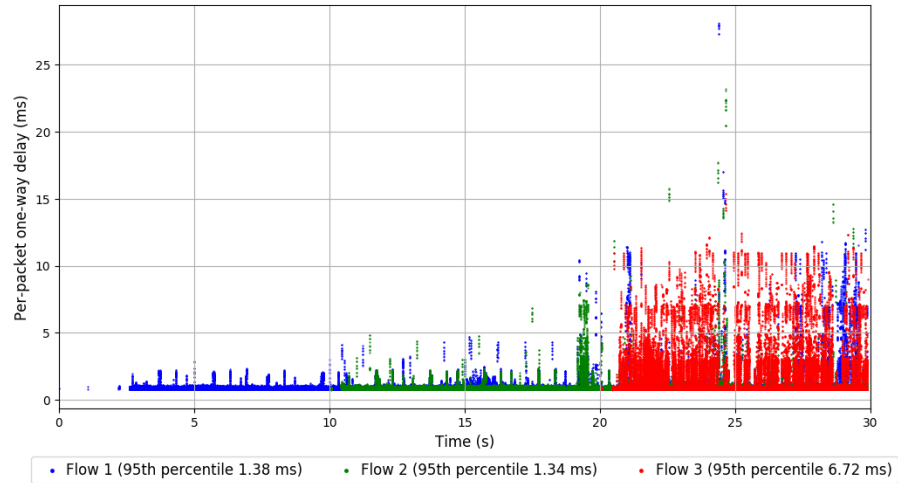
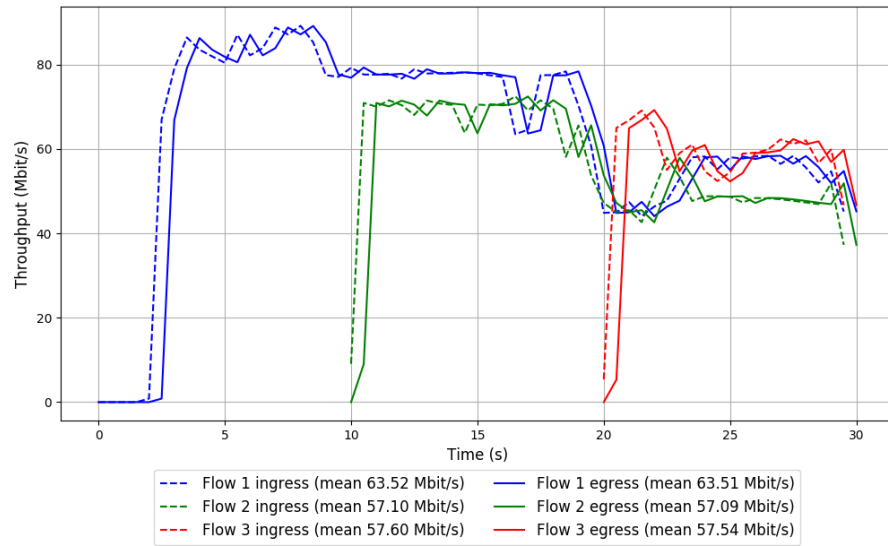
-- Flow 3:

Average throughput: 57.54 Mbit/s

95th percentile per-packet one-way delay: 6.721 ms

Loss rate: 0.04%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-12-20 02:05:49

End at: 2018-12-20 02:06:19

Local clock offset: 0.557 ms

Remote clock offset: 1.092 ms

Below is generated by plot.py at 2018-12-20 04:30:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.54 Mbit/s

95th percentile per-packet one-way delay: 1.421 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 68.89 Mbit/s

95th percentile per-packet one-way delay: 1.348 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 61.87 Mbit/s

95th percentile per-packet one-way delay: 1.446 ms

Loss rate: 0.01%

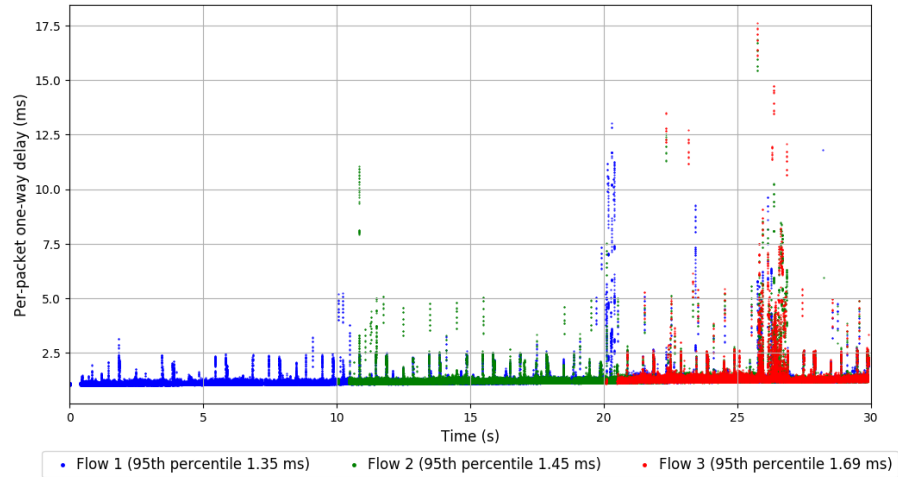
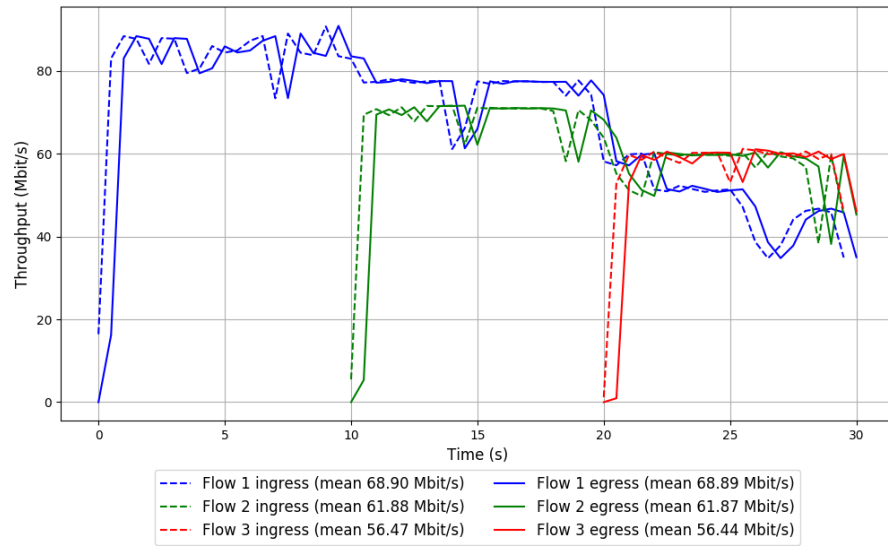
-- Flow 3:

Average throughput: 56.44 Mbit/s

95th percentile per-packet one-way delay: 1.692 ms

Loss rate: 0.02%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-12-20 02:32:43

End at: 2018-12-20 02:33:13

Local clock offset: 4.288 ms

Remote clock offset: 1.447 ms

Below is generated by plot.py at 2018-12-20 04:30:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.26 Mbit/s

95th percentile per-packet one-way delay: 1.935 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 67.49 Mbit/s

95th percentile per-packet one-way delay: 1.072 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 61.15 Mbit/s

95th percentile per-packet one-way delay: 2.990 ms

Loss rate: 0.04%

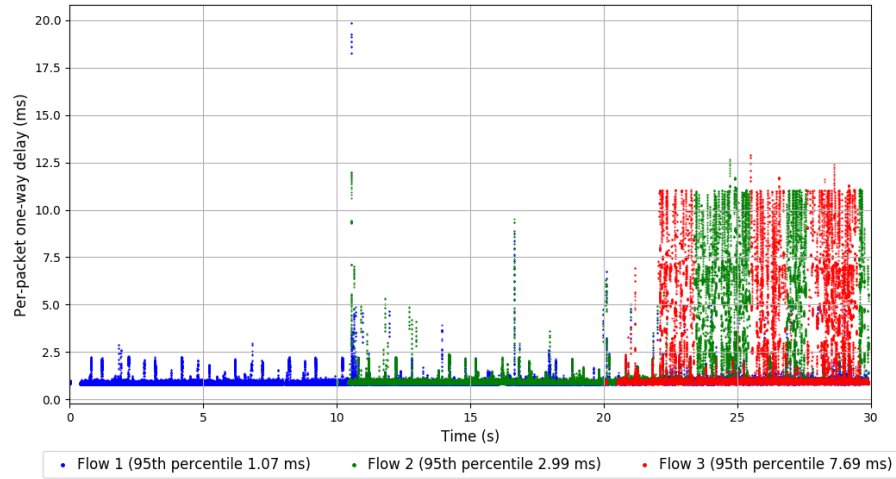
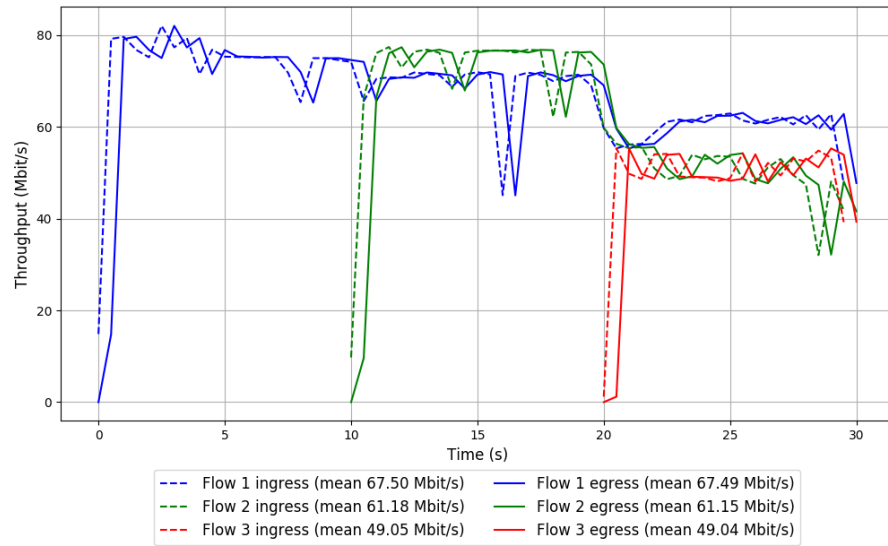
-- Flow 3:

Average throughput: 49.04 Mbit/s

95th percentile per-packet one-way delay: 7.694 ms

Loss rate: 0.03%

Run 3: Report of QUIC Cubic — Data Link

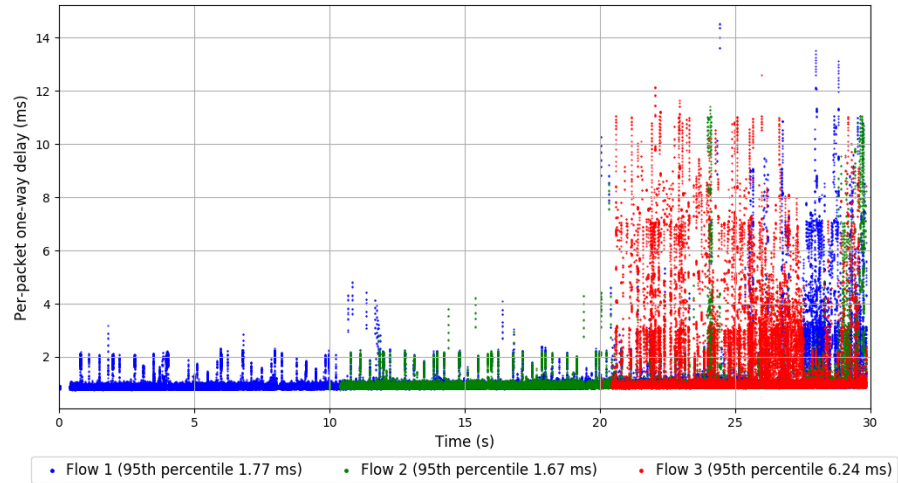
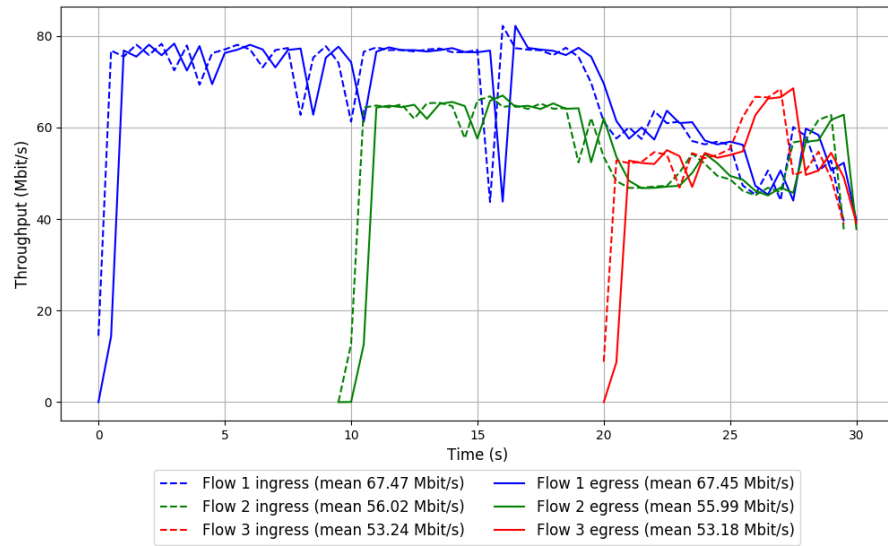


Run 4: Statistics of QUIC Cubic

Start at: 2018-12-20 02:59:35
End at: 2018-12-20 03:00:05
Local clock offset: 5.57 ms
Remote clock offset: -3.752 ms

Below is generated by plot.py at 2018-12-20 04:30:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 122.22 Mbit/s
95th percentile per-packet one-way delay: 2.250 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 67.45 Mbit/s
95th percentile per-packet one-way delay: 1.774 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 55.99 Mbit/s
95th percentile per-packet one-way delay: 1.673 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 53.18 Mbit/s
95th percentile per-packet one-way delay: 6.237 ms
Loss rate: 0.03%

Run 4: Report of QUIC Cubic — Data Link

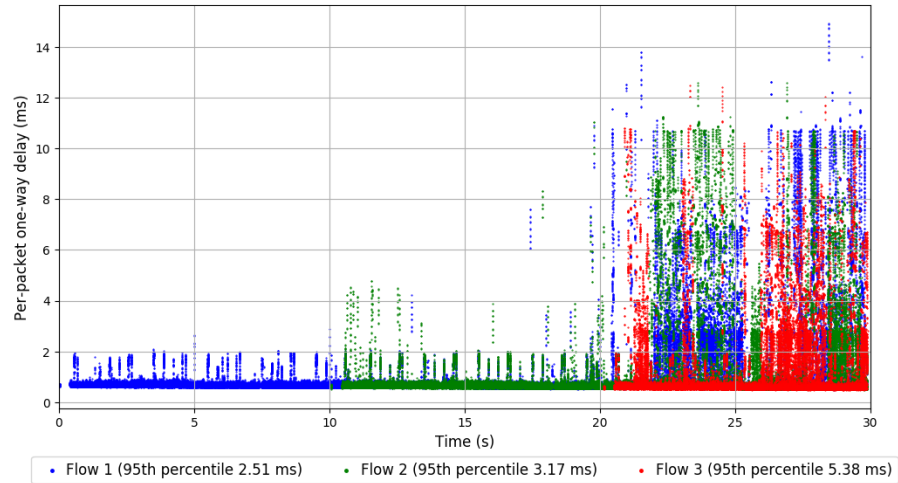
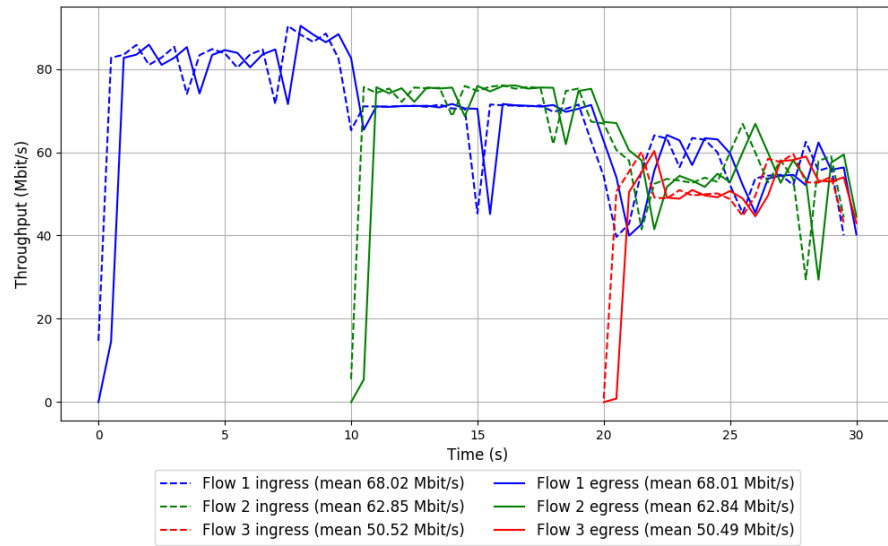


Run 5: Statistics of QUIC Cubic

Start at: 2018-12-20 03:26:06
End at: 2018-12-20 03:26:36
Local clock offset: -0.458 ms
Remote clock offset: -0.704 ms

Below is generated by plot.py at 2018-12-20 04:30:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 126.21 Mbit/s
95th percentile per-packet one-way delay: 3.107 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 68.01 Mbit/s
95th percentile per-packet one-way delay: 2.508 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 62.84 Mbit/s
95th percentile per-packet one-way delay: 3.166 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 50.49 Mbit/s
95th percentile per-packet one-way delay: 5.383 ms
Loss rate: 0.06%

Run 5: Report of QUIC Cubic — Data Link



Run 1: Statistics of SReAM

Start at: 2018-12-20 01:37:41

End at: 2018-12-20 01:38:11

Local clock offset: 0.69 ms

Remote clock offset: 0.559 ms

Below is generated by plot.py at 2018-12-20 04:30:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 1.208 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.211 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.172 ms

Loss rate: 0.00%

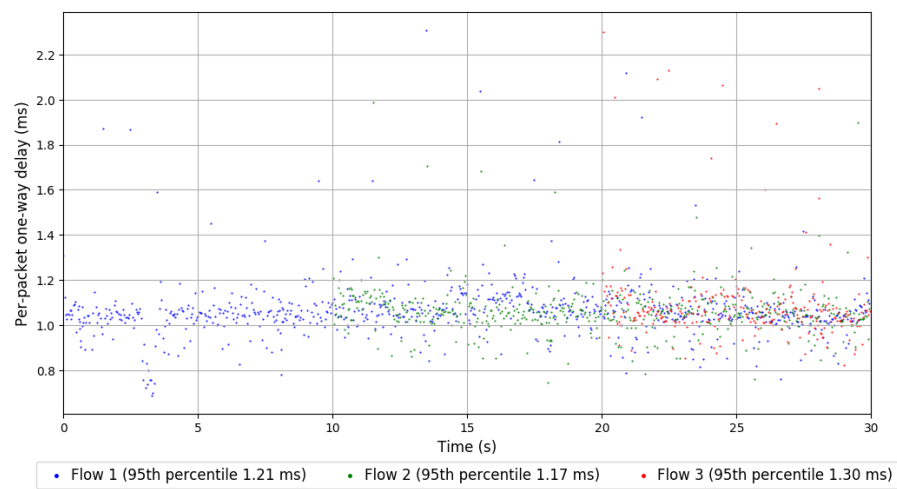
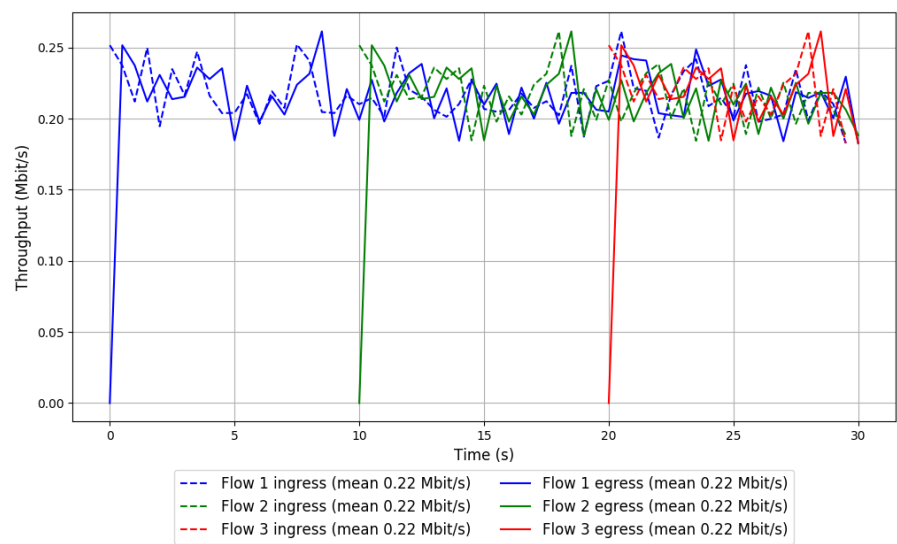
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.299 ms

Loss rate: 0.00%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-12-20 02:04:35

End at: 2018-12-20 02:05:05

Local clock offset: 0.538 ms

Remote clock offset: 1.014 ms

Below is generated by plot.py at 2018-12-20 04:30:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 1.270 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.274 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.270 ms

Loss rate: 0.00%

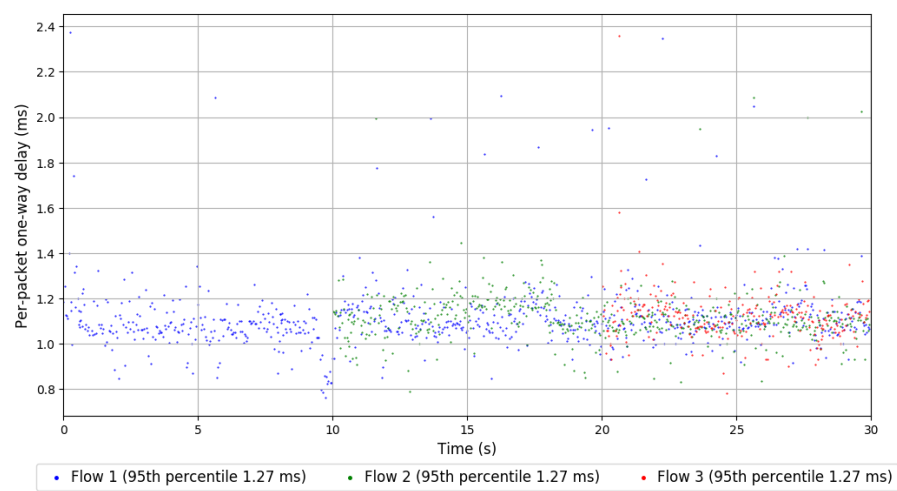
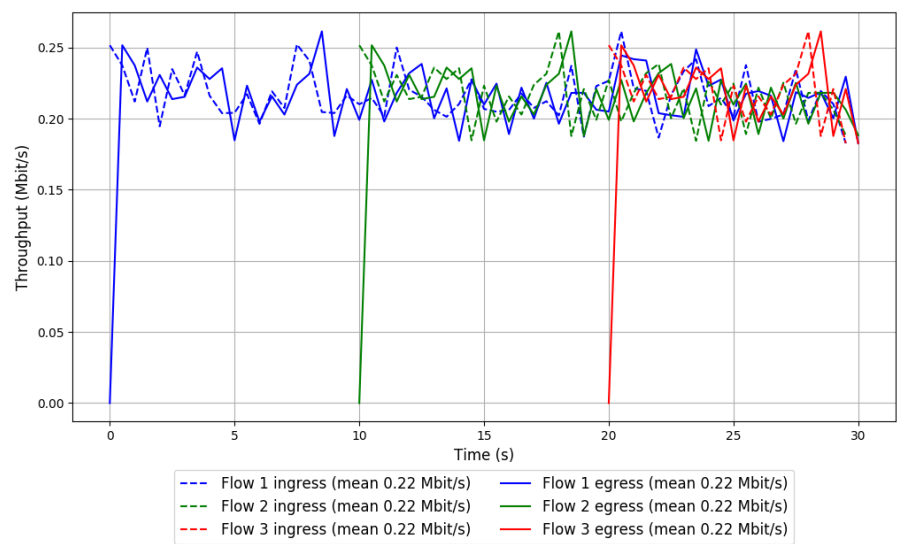
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.273 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-12-20 02:31:29

End at: 2018-12-20 02:31:59

Local clock offset: 4.228 ms

Remote clock offset: 1.379 ms

Below is generated by plot.py at 2018-12-20 04:30:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 1.386 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.471 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.363 ms

Loss rate: 0.00%

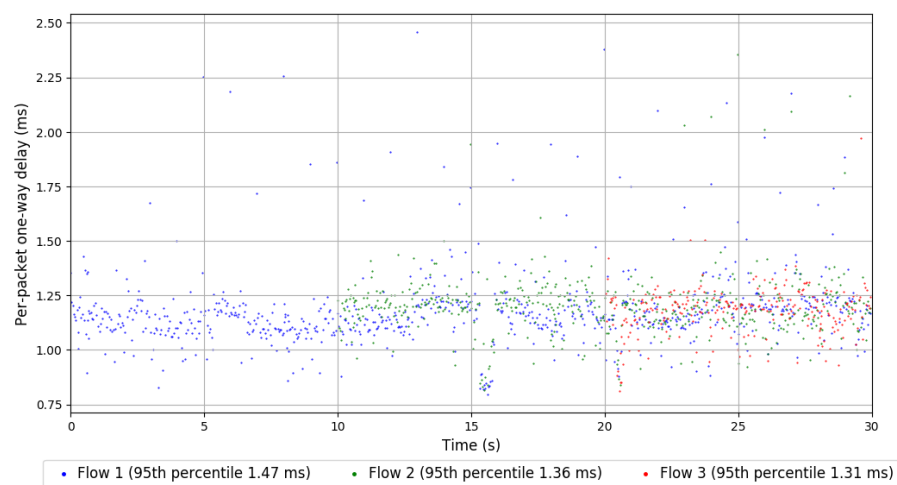
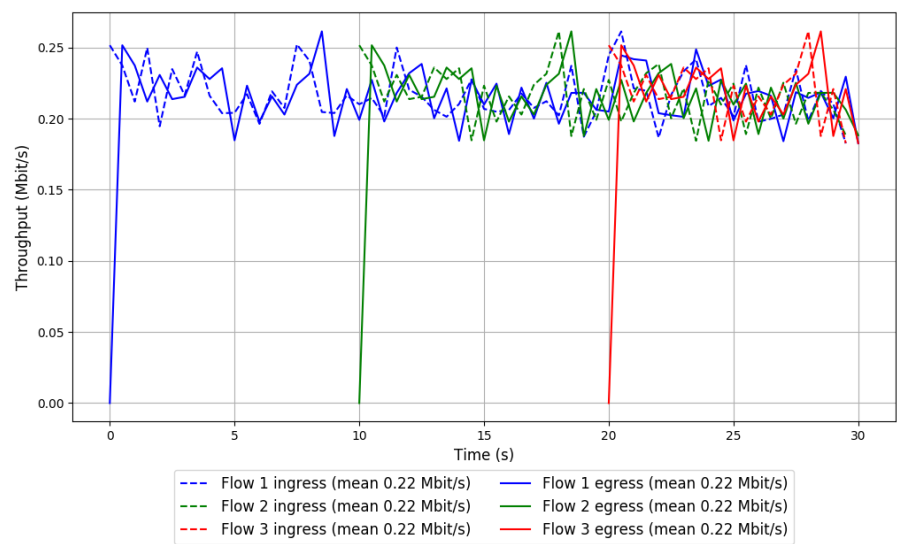
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.312 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

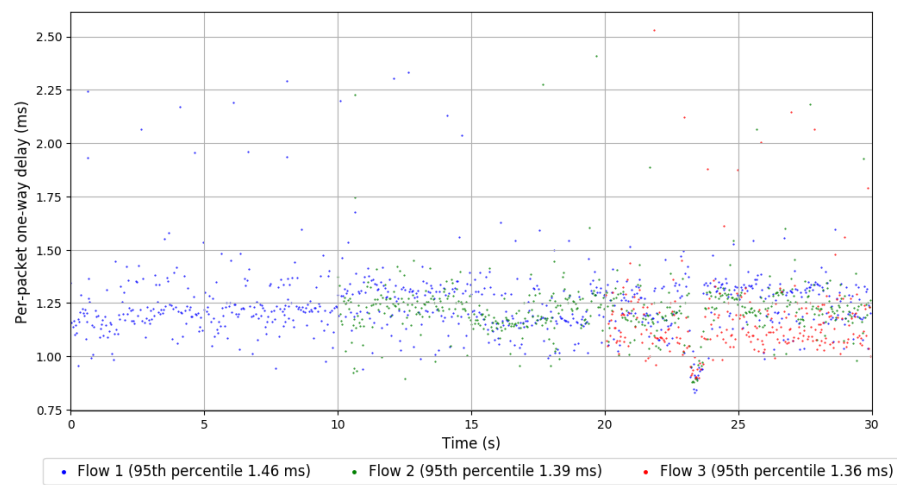
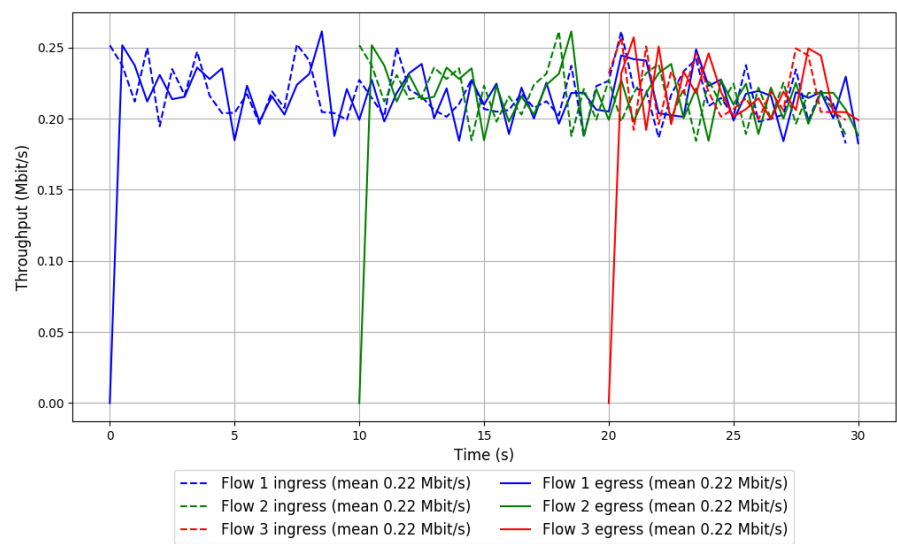


Run 4: Statistics of SReAM

Start at: 2018-12-20 02:58:21
End at: 2018-12-20 02:58:51
Local clock offset: 5.511 ms
Remote clock offset: -3.619 ms

Below is generated by plot.py at 2018-12-20 04:30:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 1.419 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.457 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.389 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.363 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

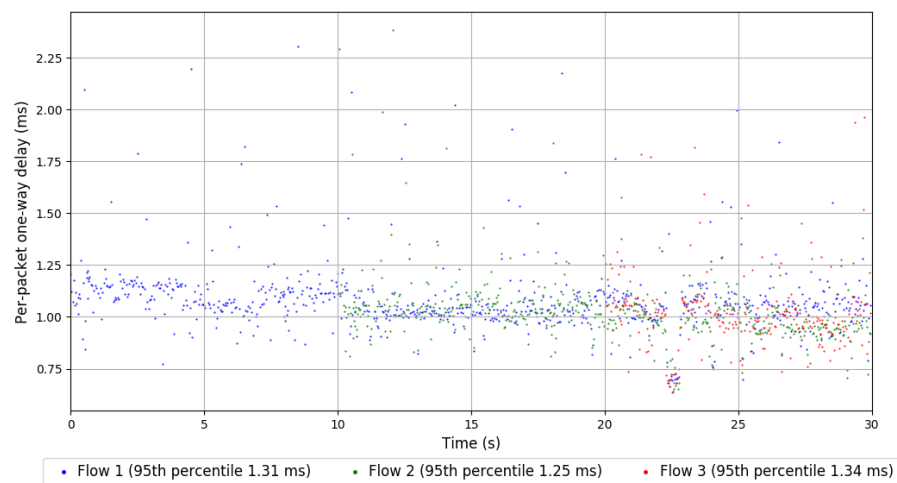
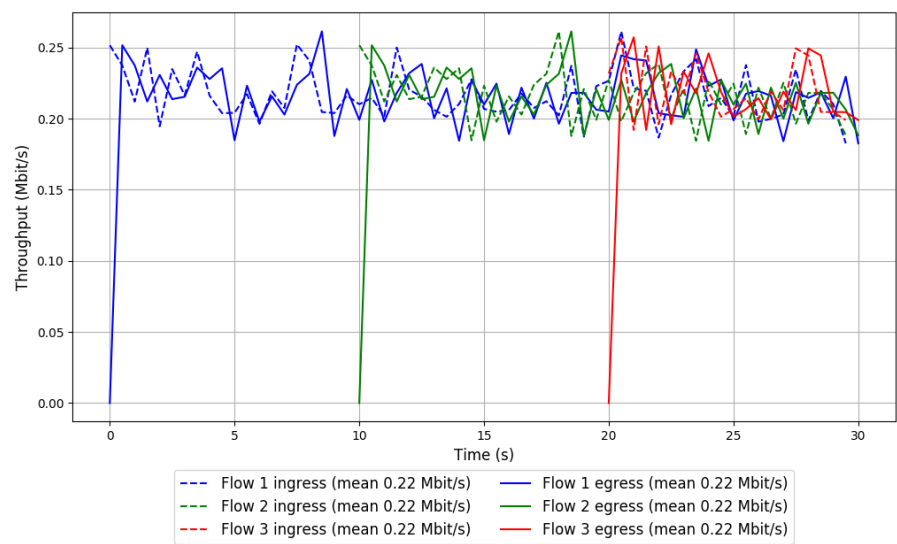


Run 5: Statistics of SReAM

Start at: 2018-12-20 03:24:52
End at: 2018-12-20 03:25:22
Local clock offset: -0.313 ms
Remote clock offset: -0.753 ms

Below is generated by plot.py at 2018-12-20 04:30:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 1.284 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.308 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.254 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.336 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-12-20 01:41:37

End at: 2018-12-20 01:42:07

Local clock offset: 0.604 ms

Remote clock offset: 0.544 ms

Below is generated by plot.py at 2018-12-20 04:30:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 98.95 Mbit/s

95th percentile per-packet one-way delay: 3.946 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 49.45 Mbit/s

95th percentile per-packet one-way delay: 3.835 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 49.81 Mbit/s

95th percentile per-packet one-way delay: 4.028 ms

Loss rate: 0.26%

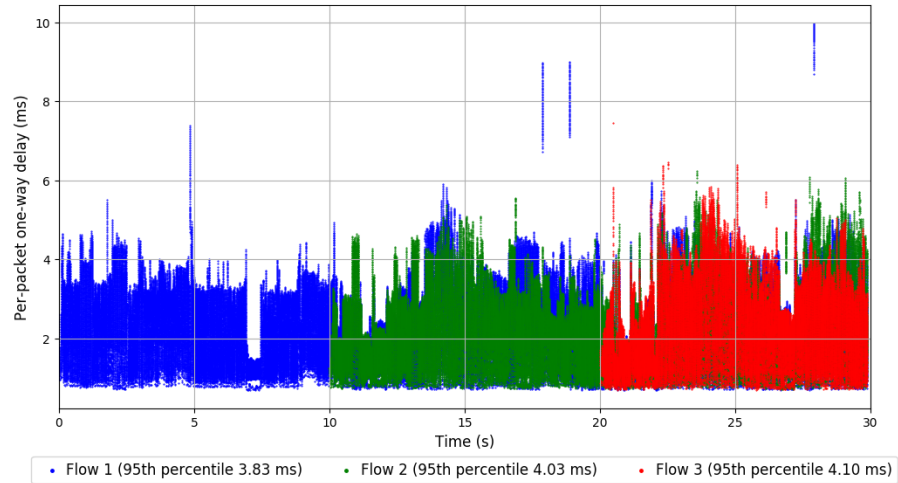
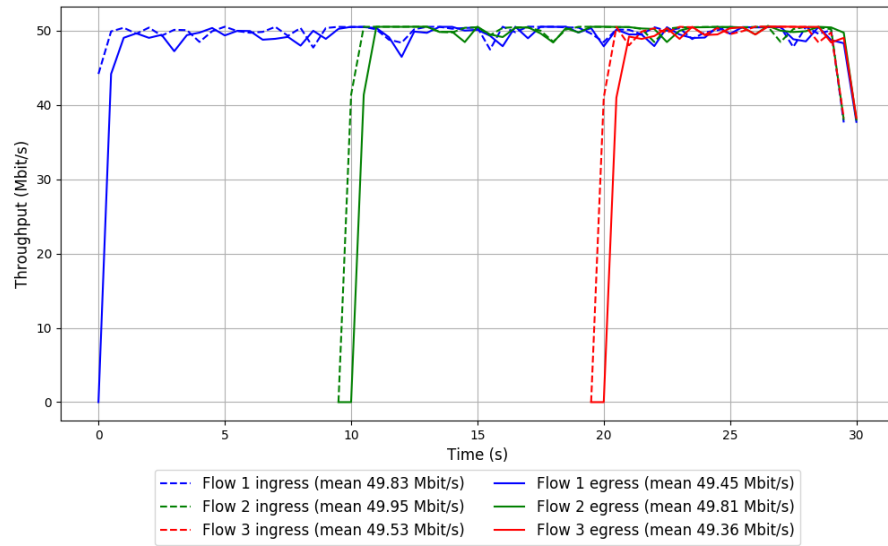
-- Flow 3:

Average throughput: 49.36 Mbit/s

95th percentile per-packet one-way delay: 4.096 ms

Loss rate: 0.32%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-12-20 02:08:33

End at: 2018-12-20 02:09:03

Local clock offset: 1.457 ms

Remote clock offset: 1.108 ms

Below is generated by plot.py at 2018-12-20 04:30:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.24 Mbit/s

95th percentile per-packet one-way delay: 4.595 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 49.76 Mbit/s

95th percentile per-packet one-way delay: 4.623 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 49.74 Mbit/s

95th percentile per-packet one-way delay: 4.554 ms

Loss rate: 0.23%

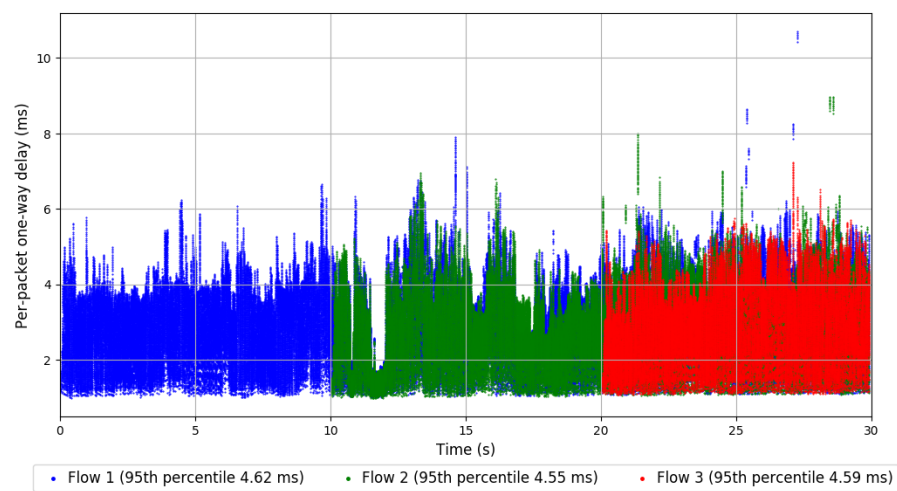
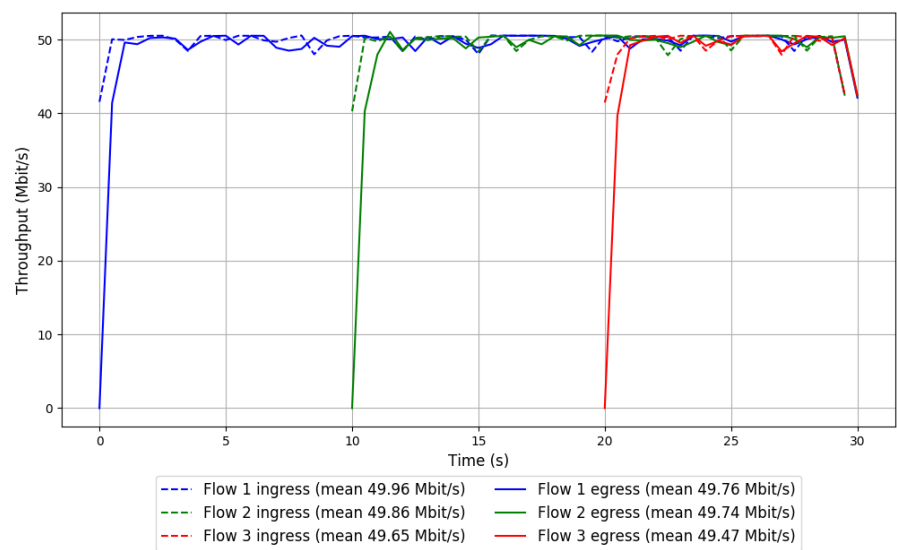
-- Flow 3:

Average throughput: 49.47 Mbit/s

95th percentile per-packet one-way delay: 4.592 ms

Loss rate: 0.33%

Run 2: Report of Sprout — Data Link

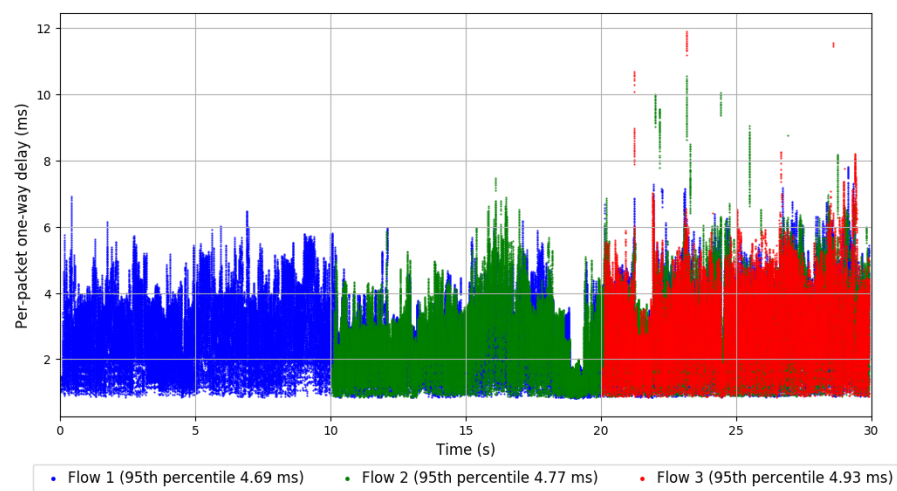
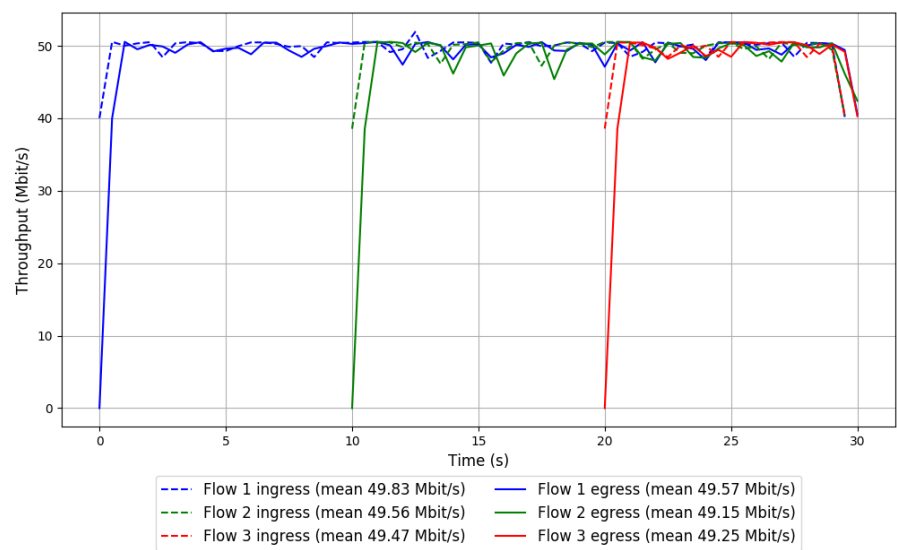


Run 3: Statistics of Sprout

Start at: 2018-12-20 02:35:25
End at: 2018-12-20 02:35:55
Local clock offset: 4.425 ms
Remote clock offset: 1.494 ms

```
# Below is generated by plot.py at 2018-12-20 04:30:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 98.54 Mbit/s
95th percentile per-packet one-way delay: 4.759 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 49.57 Mbit/s
95th percentile per-packet one-way delay: 4.687 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 49.15 Mbit/s
95th percentile per-packet one-way delay: 4.768 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 49.25 Mbit/s
95th percentile per-packet one-way delay: 4.931 ms
Loss rate: 0.41%
```

Run 3: Report of Sprout — Data Link

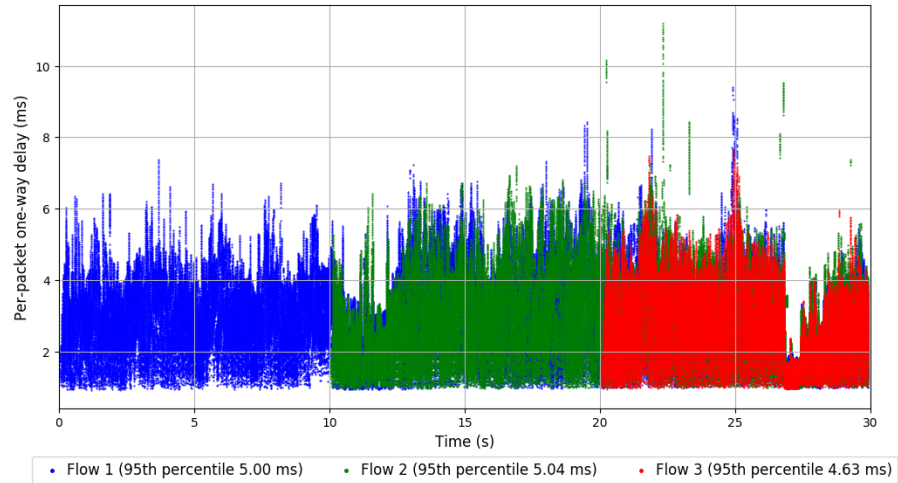
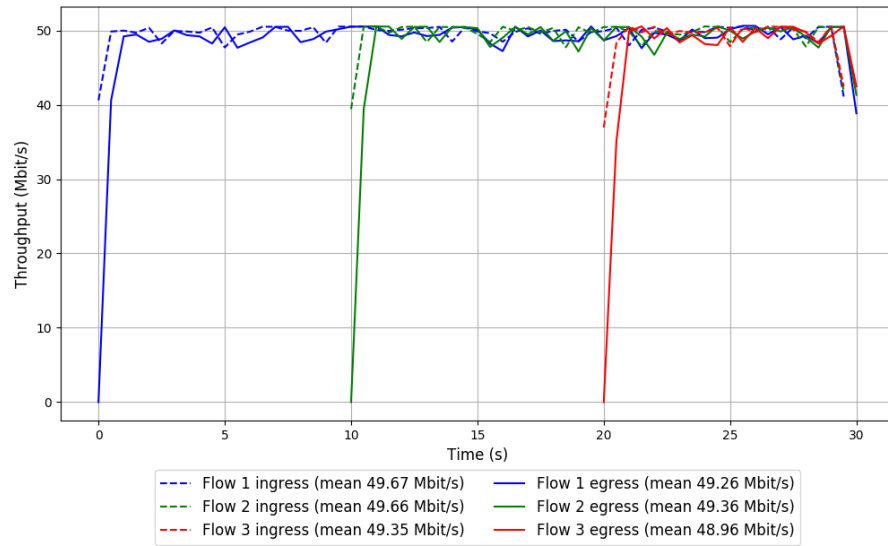


Run 4: Statistics of Sprout

Start at: 2018-12-20 03:02:18
End at: 2018-12-20 03:02:48
Local clock offset: 5.701 ms
Remote clock offset: -3.896 ms

```
# Below is generated by plot.py at 2018-12-20 04:30:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 98.28 Mbit/s
95th percentile per-packet one-way delay: 4.959 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 49.26 Mbit/s
95th percentile per-packet one-way delay: 4.998 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 49.36 Mbit/s
95th percentile per-packet one-way delay: 5.045 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 48.96 Mbit/s
95th percentile per-packet one-way delay: 4.626 ms
Loss rate: 0.77%
```

Run 4: Report of Sprout — Data Link

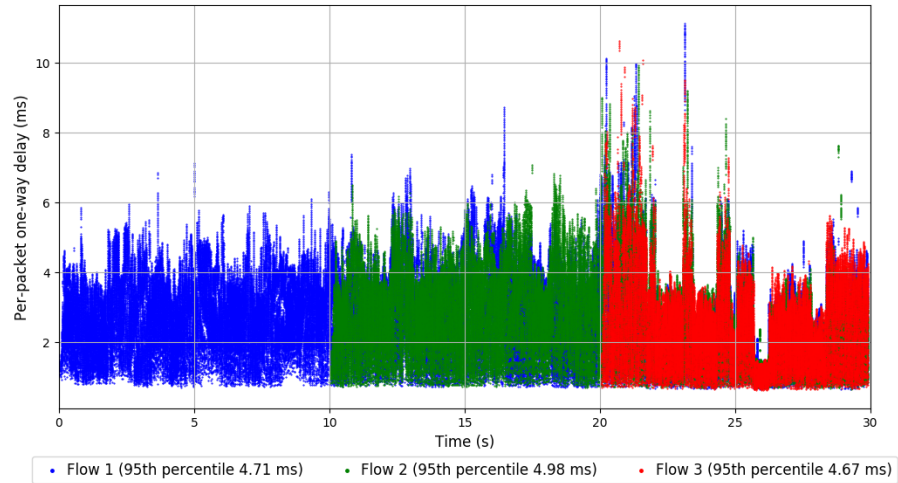
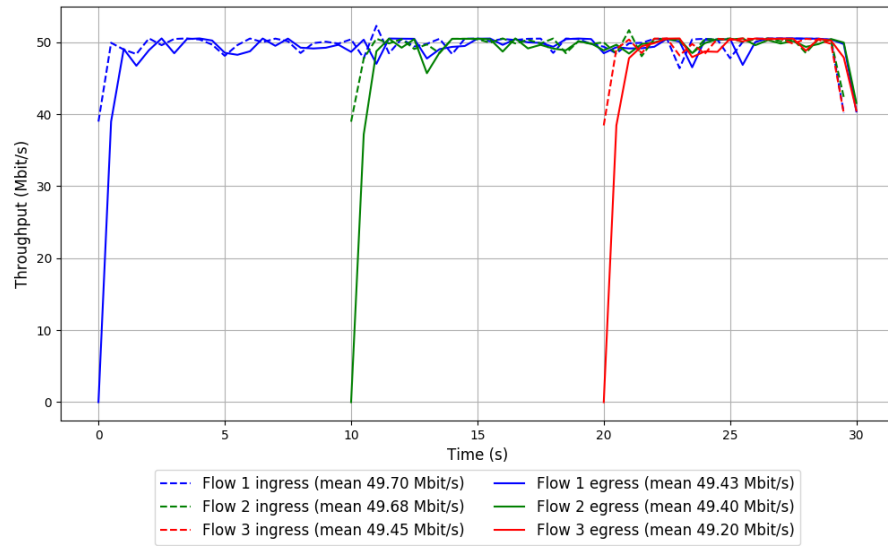


Run 5: Statistics of Sprout

Start at: 2018-12-20 03:28:49
End at: 2018-12-20 03:29:19
Local clock offset: -0.776 ms
Remote clock offset: -0.34 ms

```
# Below is generated by plot.py at 2018-12-20 04:30:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 98.53 Mbit/s
95th percentile per-packet one-way delay: 4.797 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 49.43 Mbit/s
95th percentile per-packet one-way delay: 4.710 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 49.40 Mbit/s
95th percentile per-packet one-way delay: 4.980 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 49.20 Mbit/s
95th percentile per-packet one-way delay: 4.673 ms
Loss rate: 0.48%
```

Run 5: Report of Sprout — Data Link

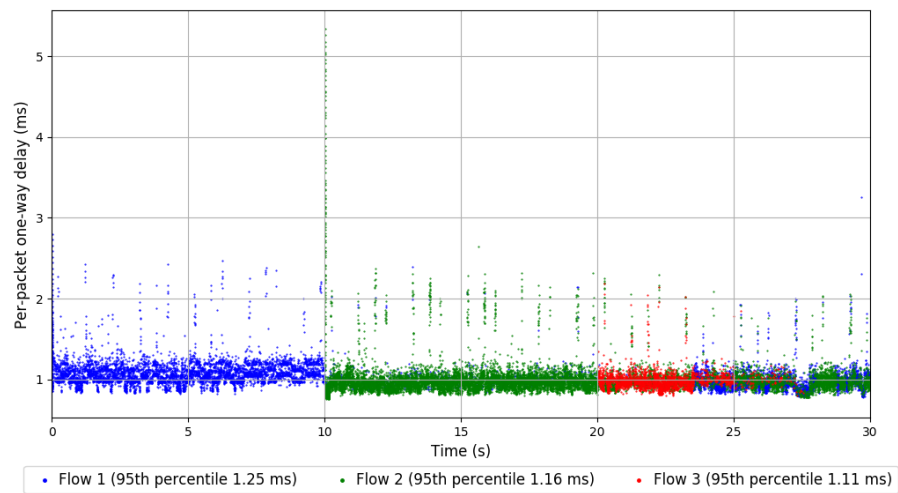
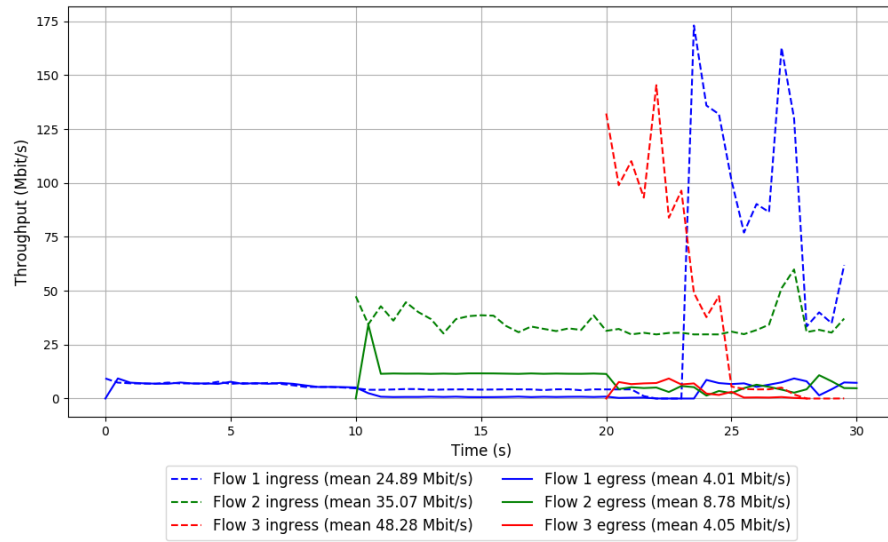


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-12-20 01:58:47
End at: 2018-12-20 01:59:17
Local clock offset: 0.527 ms
Remote clock offset: 0.958 ms

# Below is generated by plot.py at 2018-12-20 04:30:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.88 Mbit/s
95th percentile per-packet one-way delay: 1.214 ms
Loss rate: 82.89%
-- Flow 1:
Average throughput: 4.01 Mbit/s
95th percentile per-packet one-way delay: 1.253 ms
Loss rate: 83.87%
-- Flow 2:
Average throughput: 8.78 Mbit/s
95th percentile per-packet one-way delay: 1.156 ms
Loss rate: 74.95%
-- Flow 3:
Average throughput: 4.05 Mbit/s
95th percentile per-packet one-way delay: 1.114 ms
Loss rate: 93.38%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-12-20 02:25:40

End at: 2018-12-20 02:26:10

Local clock offset: 3.828 ms

Remote clock offset: 1.243 ms

Below is generated by plot.py at 2018-12-20 04:30:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.44 Mbit/s

95th percentile per-packet one-way delay: 1.276 ms

Loss rate: 50.18%

-- Flow 1:

Average throughput: 3.91 Mbit/s

95th percentile per-packet one-way delay: 1.266 ms

Loss rate: 22.29%

-- Flow 2:

Average throughput: 5.31 Mbit/s

95th percentile per-packet one-way delay: 1.205 ms

Loss rate: 18.25%

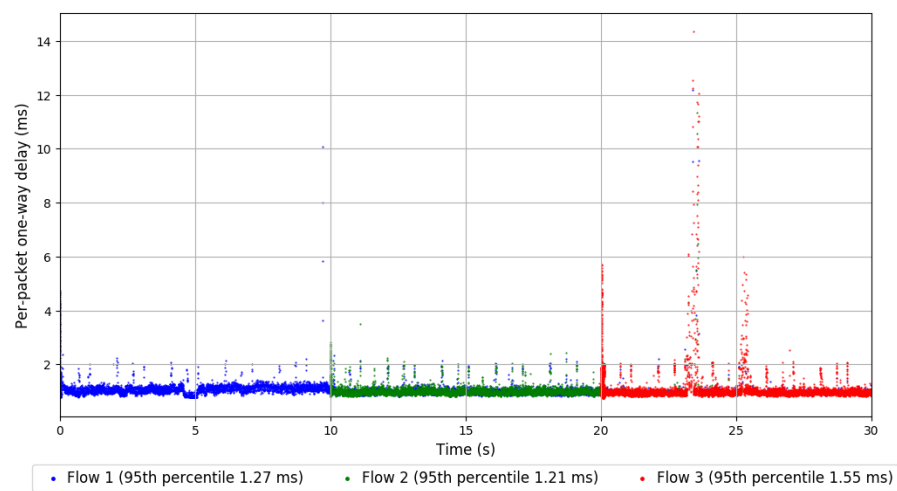
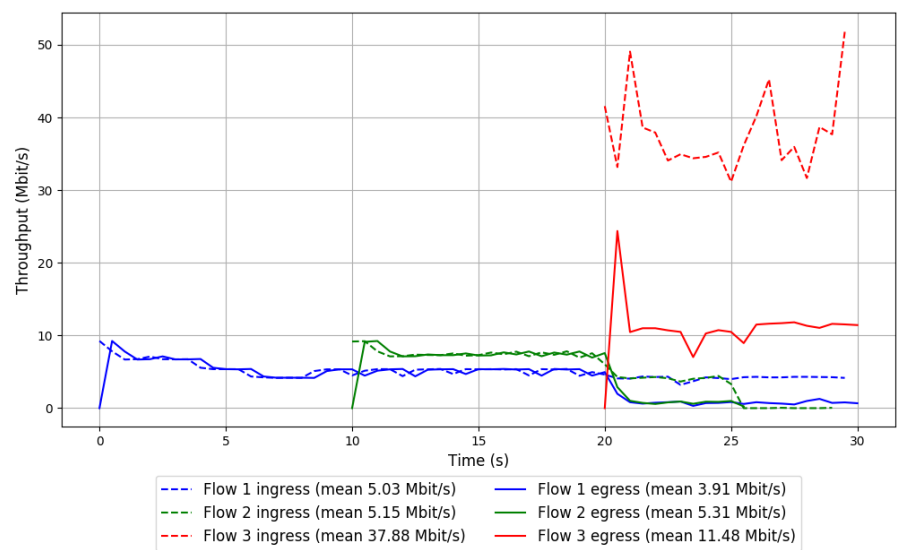
-- Flow 3:

Average throughput: 11.48 Mbit/s

95th percentile per-packet one-way delay: 1.555 ms

Loss rate: 69.70%

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

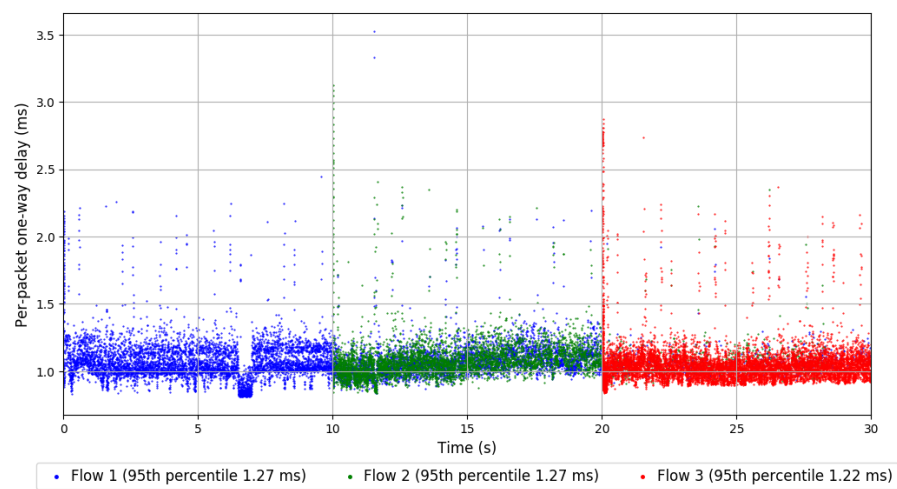
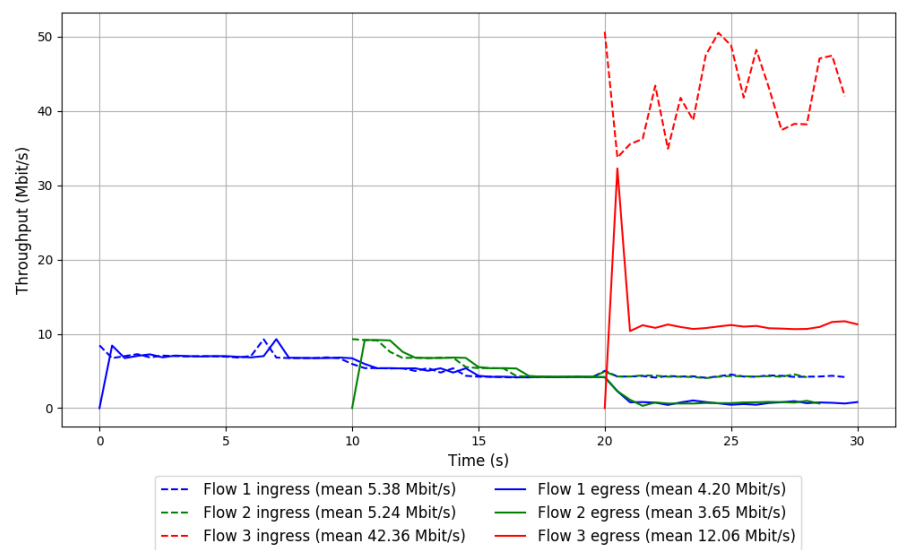


Run 3: Statistics of TaoVA-100x

Start at: 2018-12-20 02:52:38
End at: 2018-12-20 02:53:08
Local clock offset: 5.264 ms
Remote clock offset: -2.897 ms

Below is generated by plot.py at 2018-12-20 04:30:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 10.45 Mbit/s
95th percentile per-packet one-way delay: 1.257 ms
Loss rate: 53.96%
-- Flow 1:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 1.269 ms
Loss rate: 21.86%
-- Flow 2:
Average throughput: 3.65 Mbit/s
95th percentile per-packet one-way delay: 1.275 ms
Loss rate: 30.70%
-- Flow 3:
Average throughput: 12.06 Mbit/s
95th percentile per-packet one-way delay: 1.217 ms
Loss rate: 71.53%

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

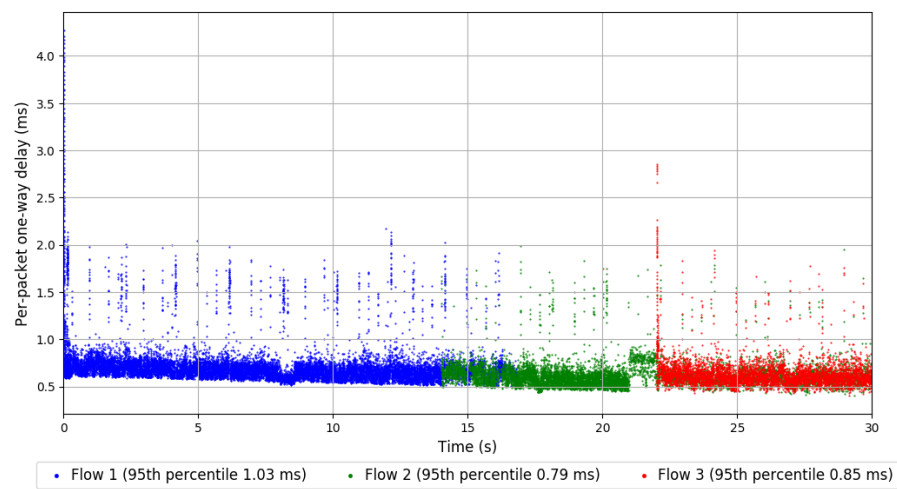
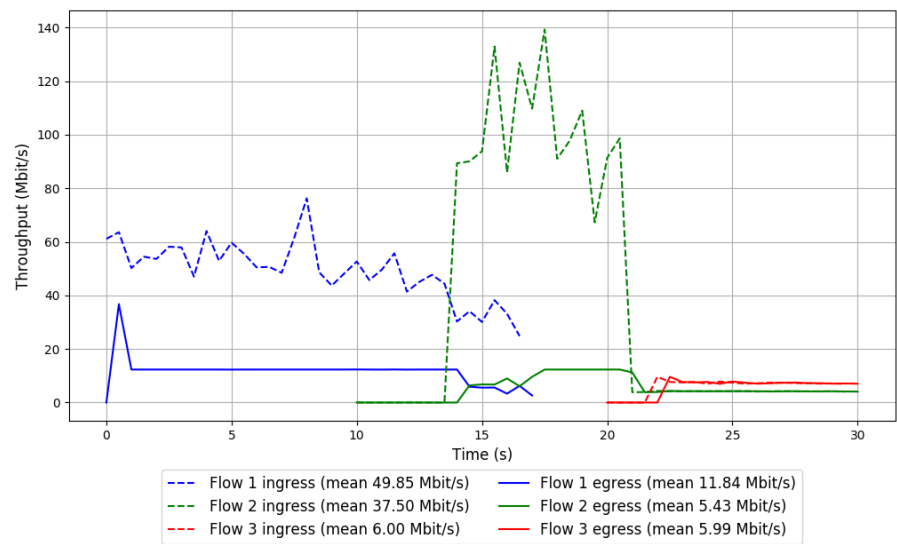


Run 4: Statistics of TaoVA-100x

Start at: 2018-12-20 03:19:06
End at: 2018-12-20 03:19:36
Local clock offset: 0.629 ms
Remote clock offset: -1.876 ms

Below is generated by plot.py at 2018-12-20 04:30:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.26 Mbit/s
95th percentile per-packet one-way delay: 0.884 ms
Loss rate: 77.70%
-- Flow 1:
Average throughput: 11.84 Mbit/s
95th percentile per-packet one-way delay: 1.026 ms
Loss rate: 76.26%
-- Flow 2:
Average throughput: 5.43 Mbit/s
95th percentile per-packet one-way delay: 0.791 ms
Loss rate: 85.51%
-- Flow 3:
Average throughput: 5.99 Mbit/s
95th percentile per-packet one-way delay: 0.854 ms
Loss rate: 0.06%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-12-20 03:45:40

End at: 2018-12-20 03:46:10

Local clock offset: -2.939 ms

Remote clock offset: 0.334 ms

Below is generated by plot.py at 2018-12-20 04:30:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.86 Mbit/s

95th percentile per-packet one-way delay: 1.087 ms

Loss rate: 72.96%

-- Flow 1:

Average throughput: 2.72 Mbit/s

95th percentile per-packet one-way delay: 1.206 ms

Loss rate: 61.89%

-- Flow 2:

Average throughput: 12.22 Mbit/s

95th percentile per-packet one-way delay: 0.975 ms

Loss rate: 75.35%

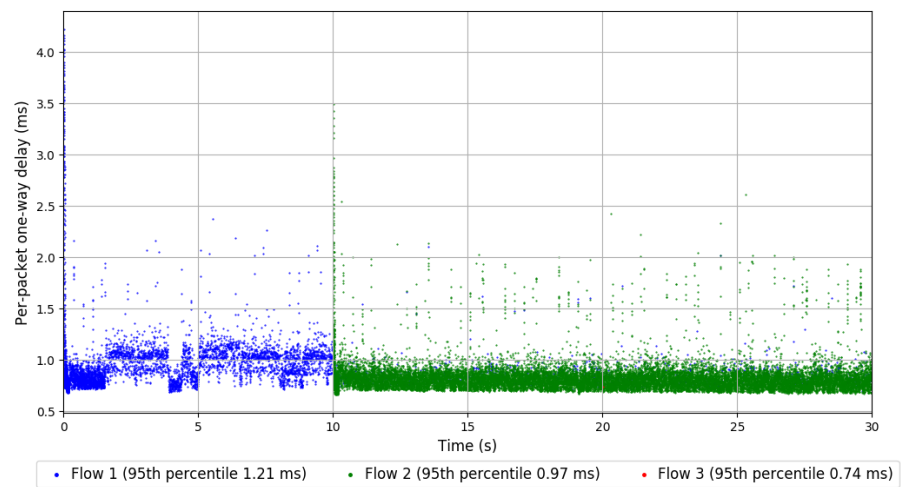
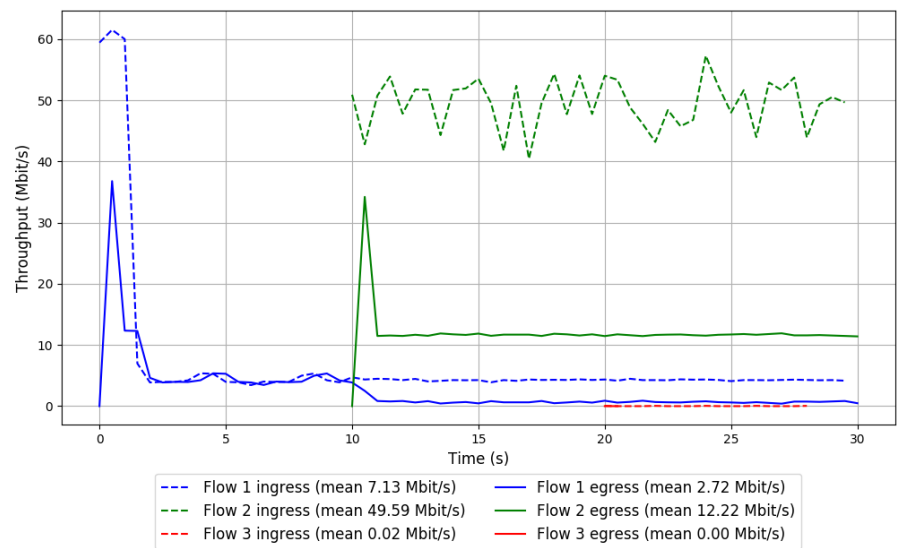
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 0.737 ms

Loss rate: 99.16%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-12-20 02:00:02

End at: 2018-12-20 02:00:32

Local clock offset: 0.506 ms

Remote clock offset: 0.965 ms

Below is generated by plot.py at 2018-12-20 04:32:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 272.13 Mbit/s

95th percentile per-packet one-way delay: 1.383 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 90.85 Mbit/s

95th percentile per-packet one-way delay: 1.291 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 91.98 Mbit/s

95th percentile per-packet one-way delay: 1.215 ms

Loss rate: 0.04%

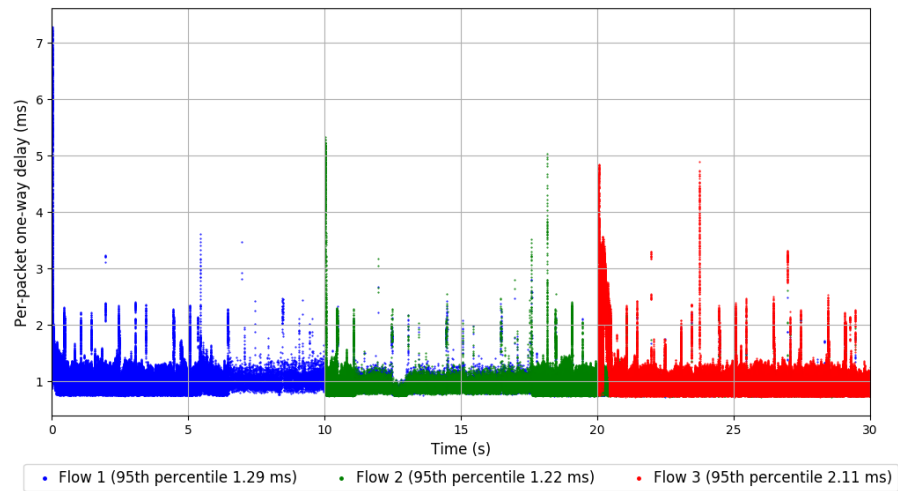
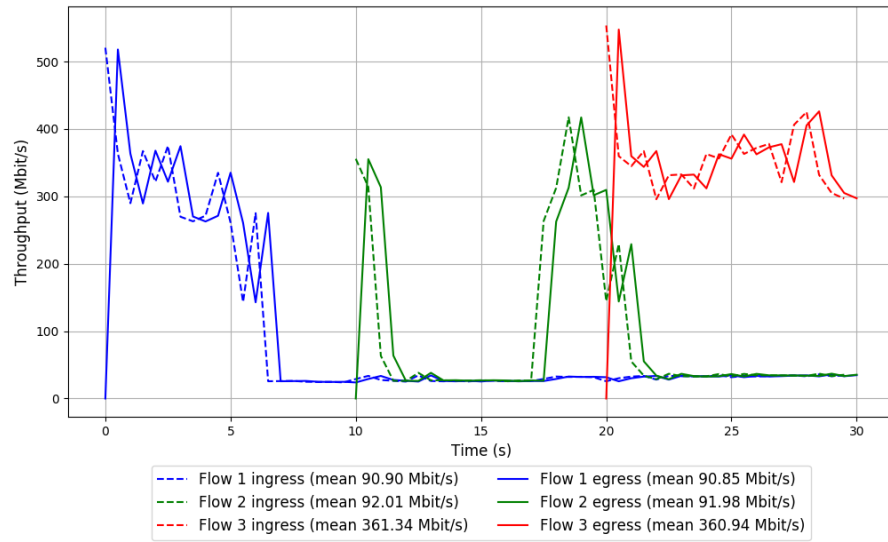
-- Flow 3:

Average throughput: 360.94 Mbit/s

95th percentile per-packet one-way delay: 2.107 ms

Loss rate: 0.11%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-12-20 02:26:54

End at: 2018-12-20 02:27:24

Local clock offset: 3.941 ms

Remote clock offset: 1.225 ms

Below is generated by plot.py at 2018-12-20 04:33:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 372.35 Mbit/s

95th percentile per-packet one-way delay: 1.140 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 151.97 Mbit/s

95th percentile per-packet one-way delay: 1.104 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 267.26 Mbit/s

95th percentile per-packet one-way delay: 1.136 ms

Loss rate: 0.04%

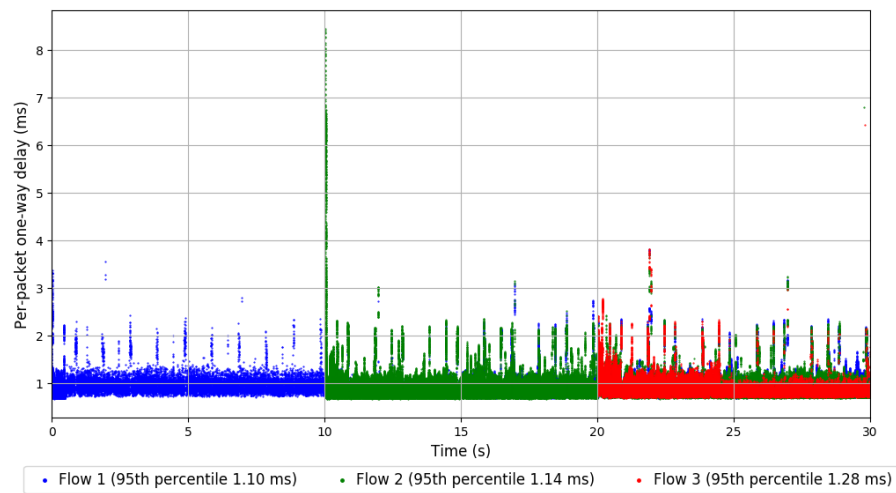
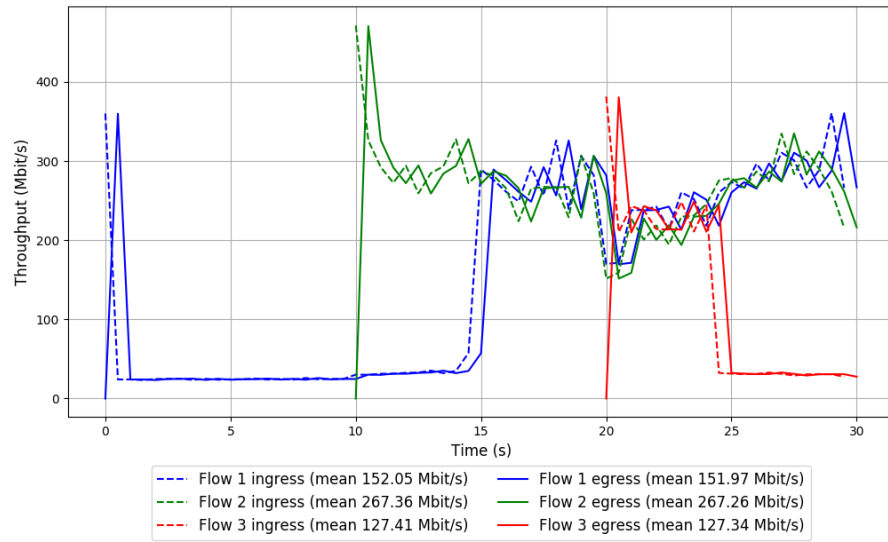
-- Flow 3:

Average throughput: 127.34 Mbit/s

95th percentile per-packet one-way delay: 1.276 ms

Loss rate: 0.06%

Run 2: Report of TCP Vegas — Data Link

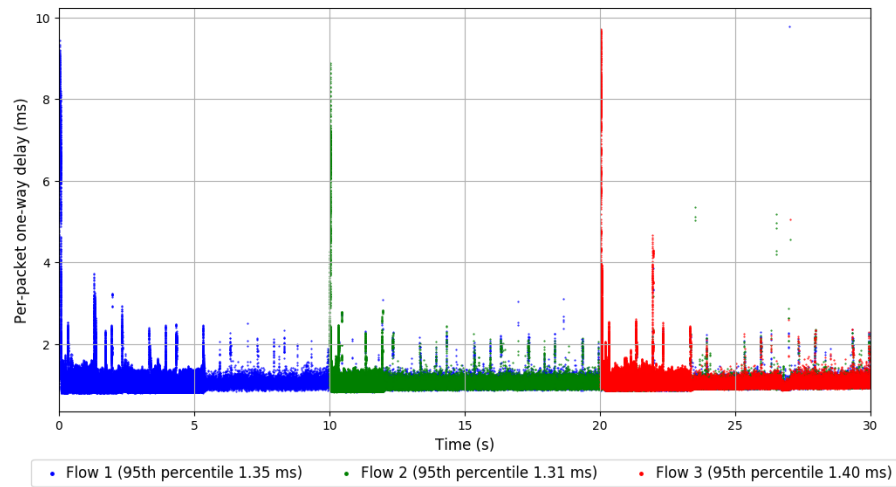
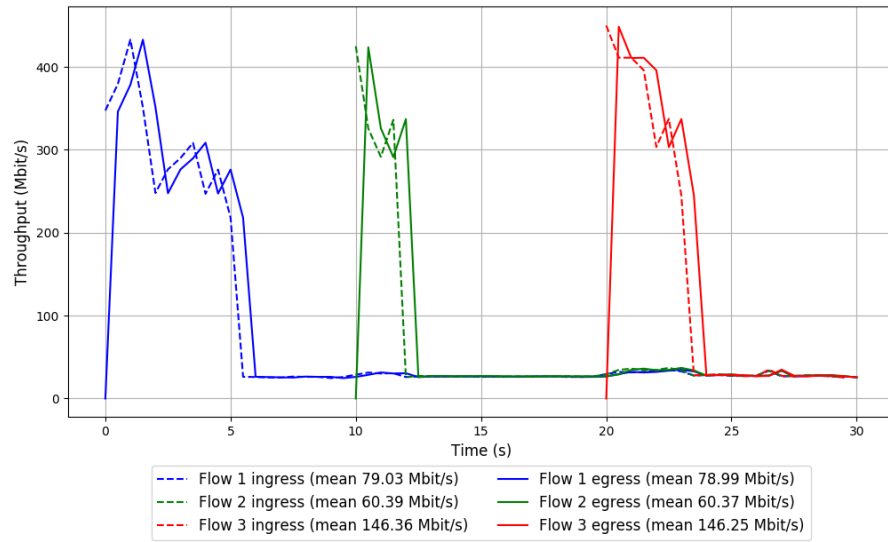


Run 3: Statistics of TCP Vegas

Start at: 2018-12-20 02:53:52
End at: 2018-12-20 02:54:22
Local clock offset: 5.306 ms
Remote clock offset: -3.053 ms

Below is generated by plot.py at 2018-12-20 04:33:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 167.85 Mbit/s
95th percentile per-packet one-way delay: 1.360 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 78.99 Mbit/s
95th percentile per-packet one-way delay: 1.351 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 60.37 Mbit/s
95th percentile per-packet one-way delay: 1.309 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 146.25 Mbit/s
95th percentile per-packet one-way delay: 1.397 ms
Loss rate: 0.07%

Run 3: Report of TCP Vegas — Data Link

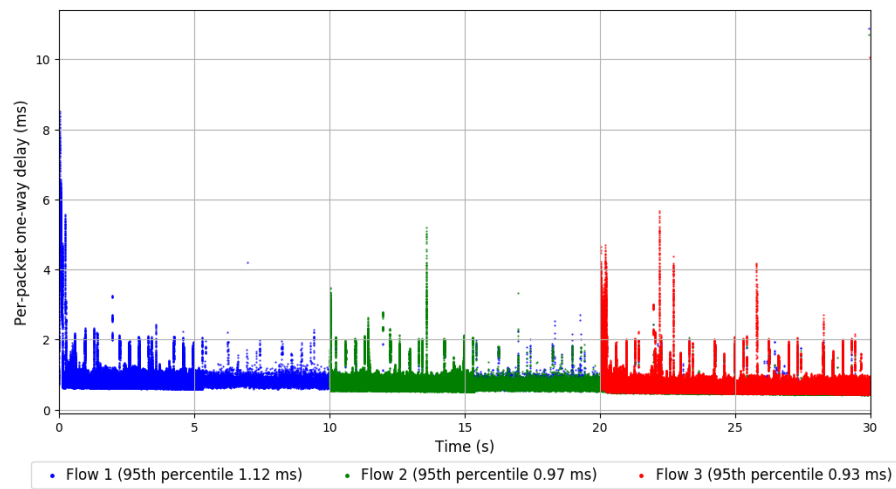
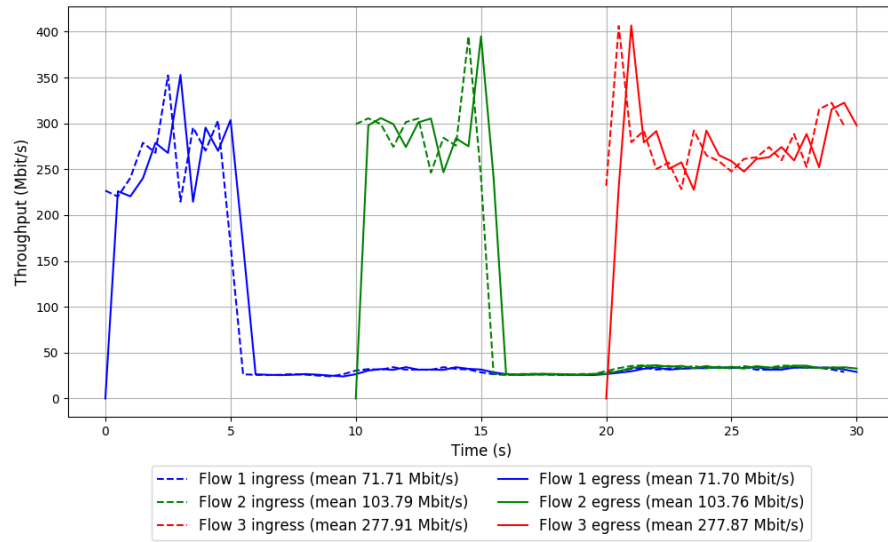


Run 4: Statistics of TCP Vegas

Start at: 2018-12-20 03:20:21
End at: 2018-12-20 03:20:51
Local clock offset: 0.393 ms
Remote clock offset: -1.546 ms

Below is generated by plot.py at 2018-12-20 04:33:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 233.21 Mbit/s
95th percentile per-packet one-way delay: 1.037 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 71.70 Mbit/s
95th percentile per-packet one-way delay: 1.117 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 103.76 Mbit/s
95th percentile per-packet one-way delay: 0.971 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 277.87 Mbit/s
95th percentile per-packet one-way delay: 0.934 ms
Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-12-20 03:46:55

End at: 2018-12-20 03:47:25

Local clock offset: -3.119 ms

Remote clock offset: 0.235 ms

Below is generated by plot.py at 2018-12-20 04:34:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 451.53 Mbit/s

95th percentile per-packet one-way delay: 1.132 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 220.07 Mbit/s

95th percentile per-packet one-way delay: 1.130 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 257.81 Mbit/s

95th percentile per-packet one-way delay: 1.121 ms

Loss rate: 0.05%

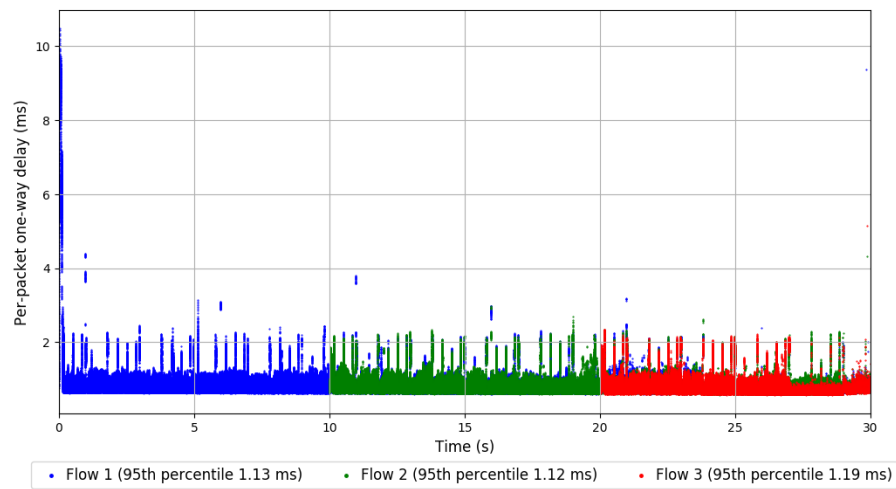
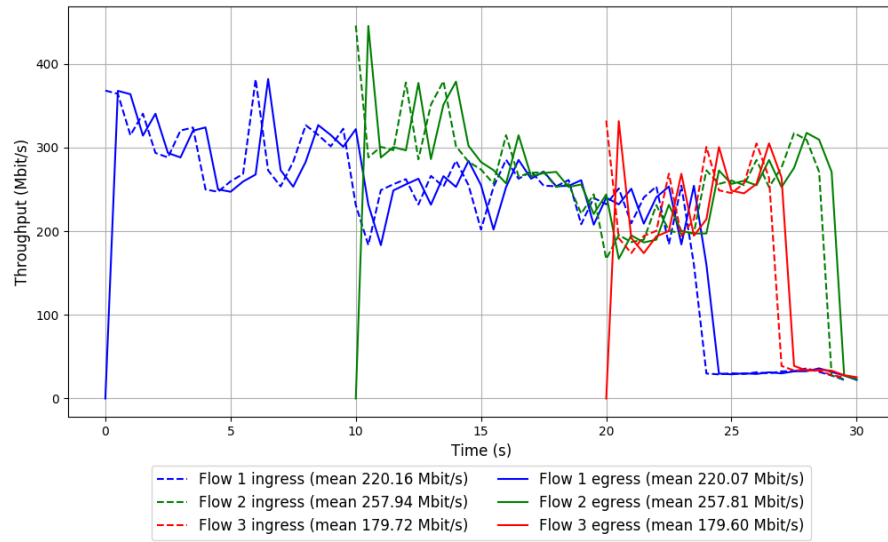
-- Flow 3:

Average throughput: 179.60 Mbit/s

95th percentile per-packet one-way delay: 1.188 ms

Loss rate: 0.06%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-12-20 01:40:13

End at: 2018-12-20 01:40:43

Local clock offset: 0.633 ms

Remote clock offset: 0.553 ms

Below is generated by plot.py at 2018-12-20 04:34:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 232.21 Mbit/s

95th percentile per-packet one-way delay: 31.395 ms

Loss rate: 5.09%

-- Flow 1:

Average throughput: 119.06 Mbit/s

95th percentile per-packet one-way delay: 19.318 ms

Loss rate: 5.07%

-- Flow 2:

Average throughput: 92.51 Mbit/s

95th percentile per-packet one-way delay: 28.094 ms

Loss rate: 4.91%

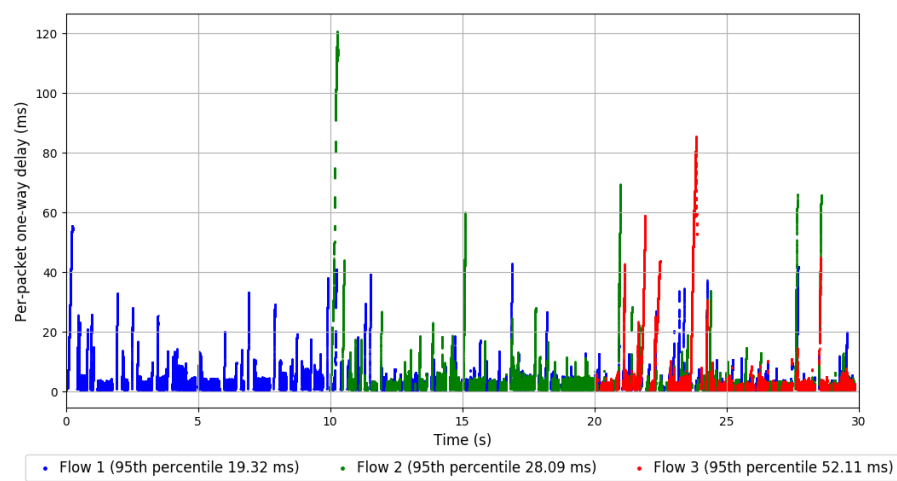
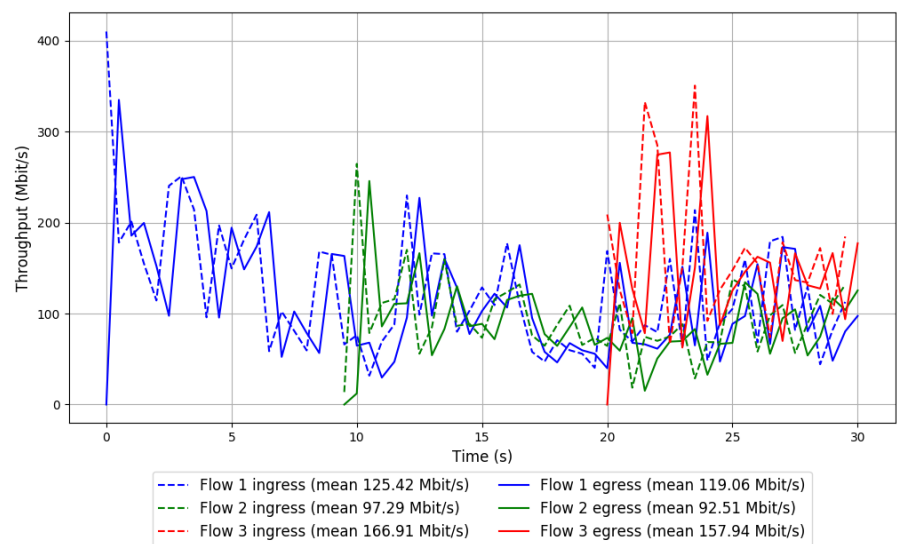
-- Flow 3:

Average throughput: 157.94 Mbit/s

95th percentile per-packet one-way delay: 52.110 ms

Loss rate: 5.36%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-12-20 02:07:07

End at: 2018-12-20 02:07:37

Local clock offset: 1.024 ms

Remote clock offset: 1.094 ms

Below is generated by plot.py at 2018-12-20 04:34:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 272.99 Mbit/s

95th percentile per-packet one-way delay: 8.480 ms

Loss rate: 2.93%

-- Flow 1:

Average throughput: 153.74 Mbit/s

95th percentile per-packet one-way delay: 6.242 ms

Loss rate: 2.08%

-- Flow 2:

Average throughput: 128.44 Mbit/s

95th percentile per-packet one-way delay: 10.779 ms

Loss rate: 3.50%

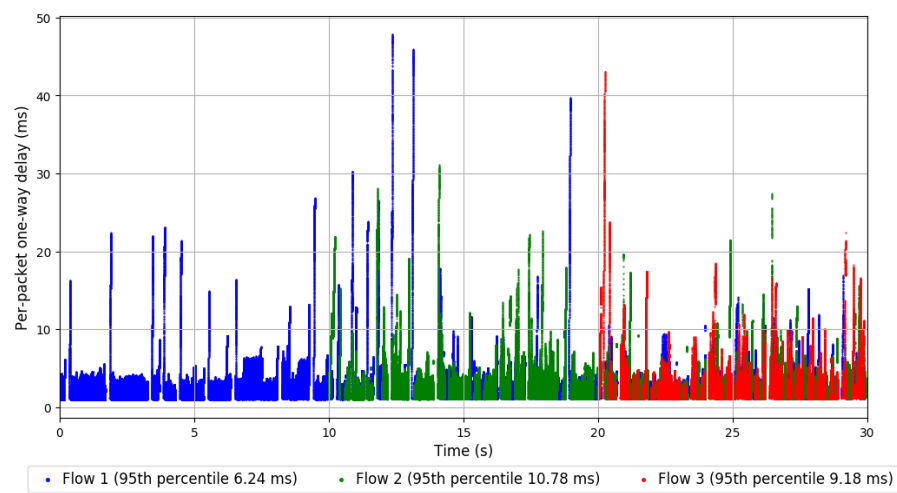
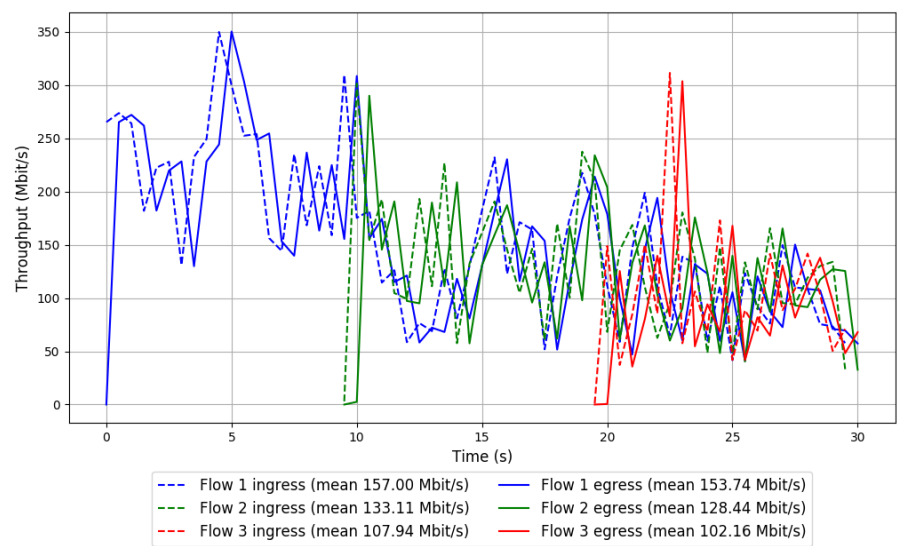
-- Flow 3:

Average throughput: 102.16 Mbit/s

95th percentile per-packet one-way delay: 9.177 ms

Loss rate: 5.28%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-12-20 02:34:01

End at: 2018-12-20 02:34:31

Local clock offset: 4.364 ms

Remote clock offset: 1.405 ms

Below is generated by plot.py at 2018-12-20 04:34:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 234.18 Mbit/s

95th percentile per-packet one-way delay: 20.595 ms

Loss rate: 5.71%

-- Flow 1:

Average throughput: 111.75 Mbit/s

95th percentile per-packet one-way delay: 25.984 ms

Loss rate: 6.39%

-- Flow 2:

Average throughput: 105.93 Mbit/s

95th percentile per-packet one-way delay: 18.157 ms

Loss rate: 6.11%

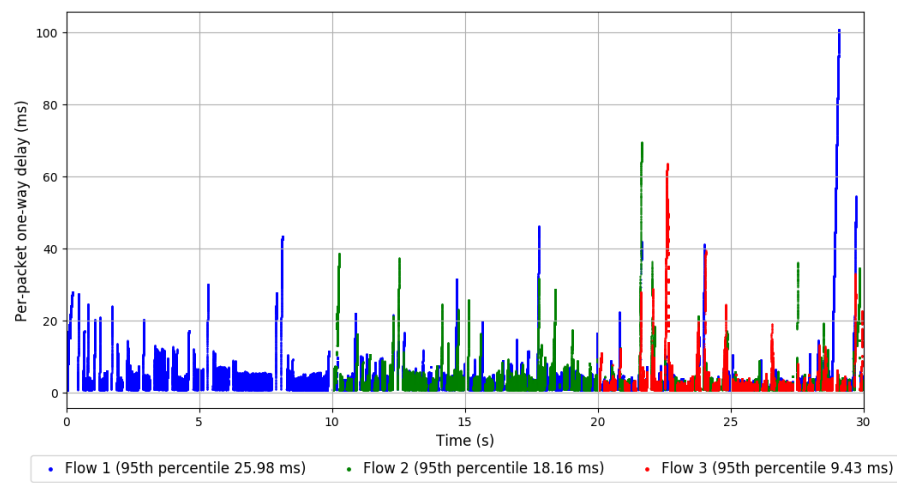
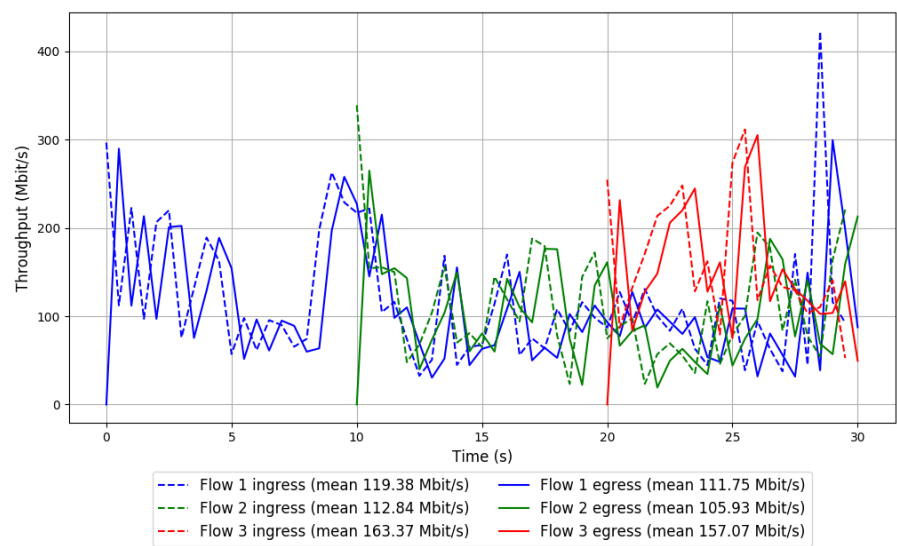
-- Flow 3:

Average throughput: 157.07 Mbit/s

95th percentile per-packet one-way delay: 9.434 ms

Loss rate: 3.65%

Run 3: Report of Verus — Data Link

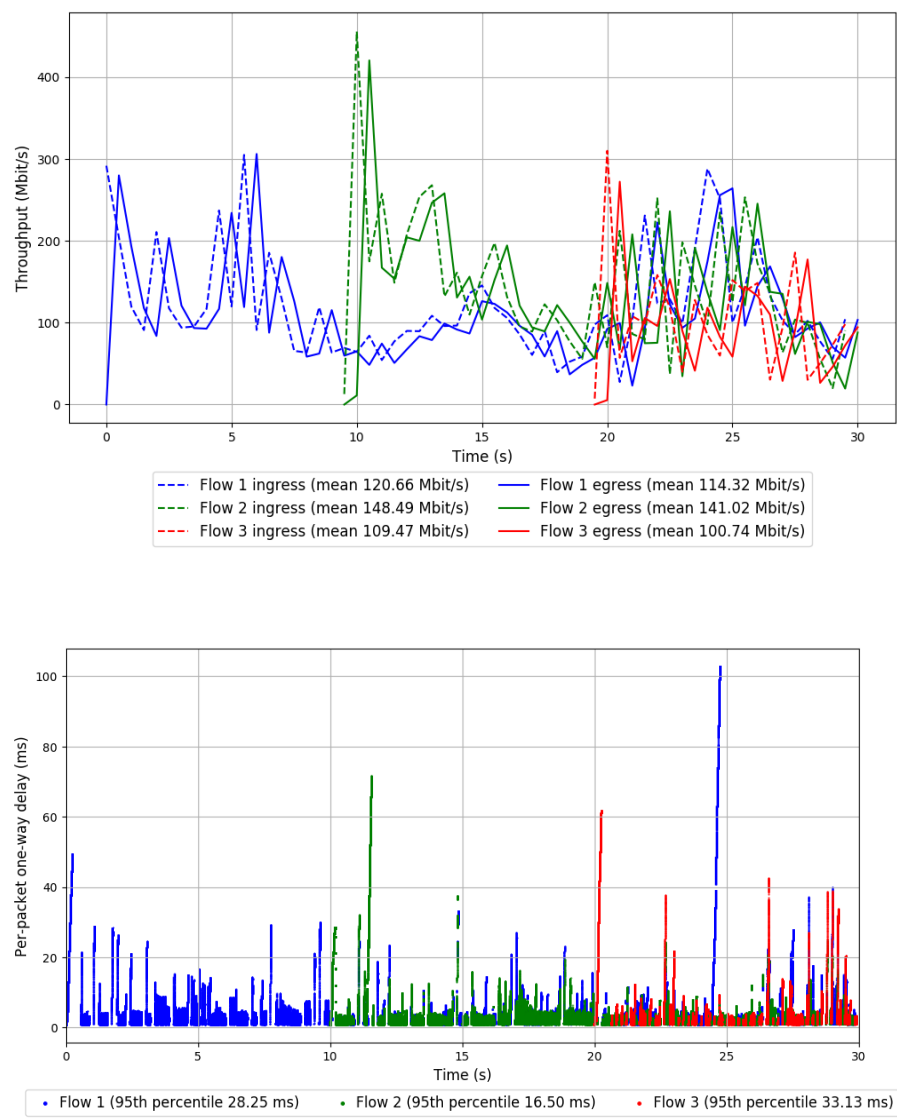


Run 4: Statistics of Verus

Start at: 2018-12-20 03:00:53
End at: 2018-12-20 03:01:23
Local clock offset: 5.635 ms
Remote clock offset: -3.806 ms

Below is generated by plot.py at 2018-12-20 04:34:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 241.07 Mbit/s
95th percentile per-packet one-way delay: 25.095 ms
Loss rate: 5.55%
-- Flow 1:
Average throughput: 114.32 Mbit/s
95th percentile per-packet one-way delay: 28.251 ms
Loss rate: 5.26%
-- Flow 2:
Average throughput: 141.02 Mbit/s
95th percentile per-packet one-way delay: 16.497 ms
Loss rate: 5.03%
-- Flow 3:
Average throughput: 100.74 Mbit/s
95th percentile per-packet one-way delay: 33.128 ms
Loss rate: 7.95%

Run 4: Report of Verus — Data Link

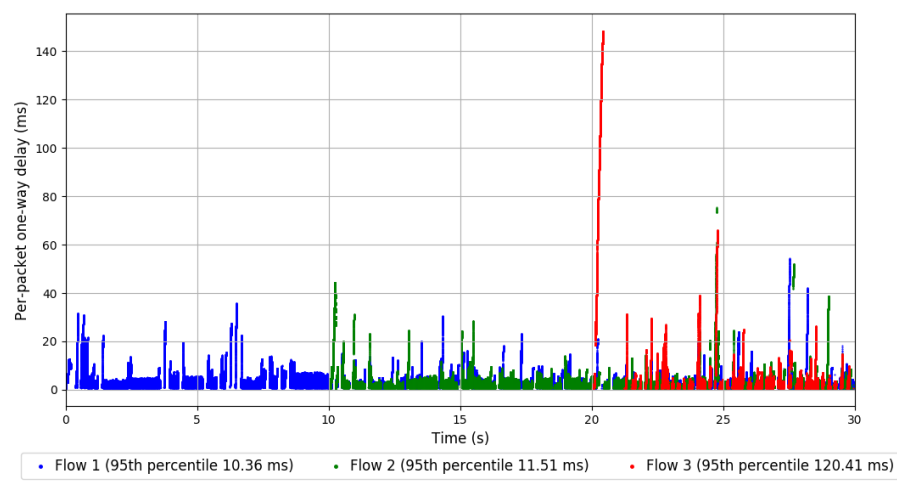
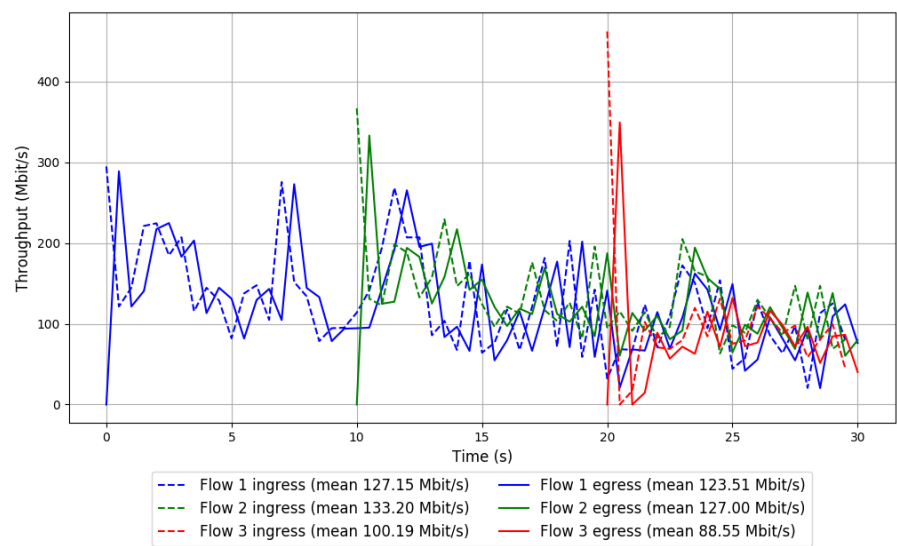


Run 5: Statistics of Verus

Start at: 2018-12-20 03:27:24
End at: 2018-12-20 03:27:54
Local clock offset: -0.607 ms
Remote clock offset: -0.526 ms

Below is generated by plot.py at 2018-12-20 04:34:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 237.32 Mbit/s
95th percentile per-packet one-way delay: 14.700 ms
Loss rate: 4.67%
-- Flow 1:
Average throughput: 123.51 Mbit/s
95th percentile per-packet one-way delay: 10.357 ms
Loss rate: 2.86%
-- Flow 2:
Average throughput: 127.00 Mbit/s
95th percentile per-packet one-way delay: 11.510 ms
Loss rate: 4.65%
-- Flow 3:
Average throughput: 88.55 Mbit/s
95th percentile per-packet one-way delay: 120.406 ms
Loss rate: 11.62%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-12-20 01:51:38

End at: 2018-12-20 01:52:08

Local clock offset: 0.531 ms

Remote clock offset: 0.72 ms

Below is generated by plot.py at 2018-12-20 04:34:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 272.05 Mbit/s

95th percentile per-packet one-way delay: 1.592 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 150.21 Mbit/s

95th percentile per-packet one-way delay: 1.104 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 117.56 Mbit/s

95th percentile per-packet one-way delay: 1.193 ms

Loss rate: 0.05%

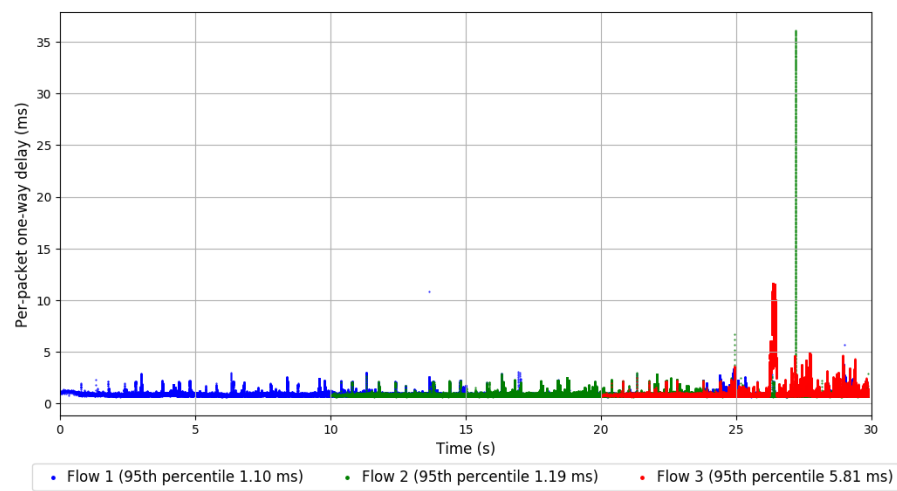
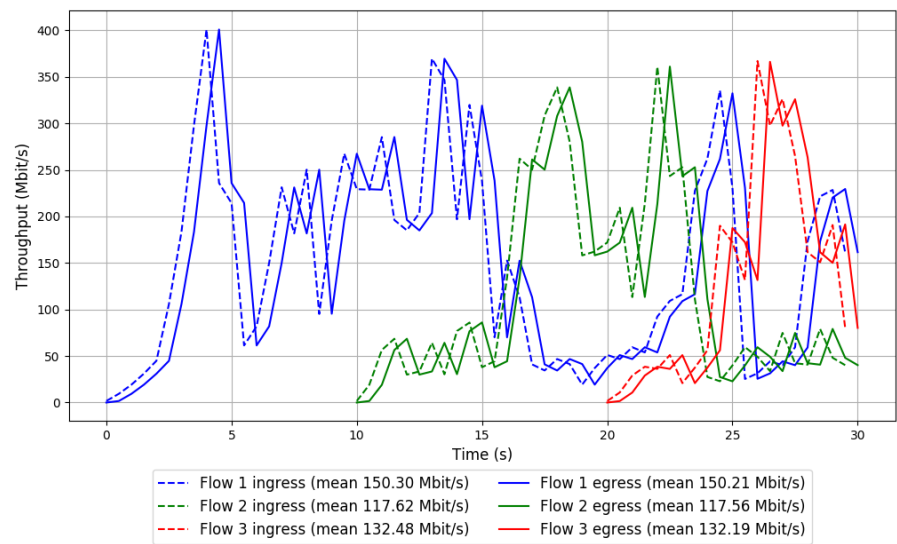
-- Flow 3:

Average throughput: 132.19 Mbit/s

95th percentile per-packet one-way delay: 5.808 ms

Loss rate: 0.21%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-12-20 02:18:29

End at: 2018-12-20 02:18:59

Local clock offset: 3.177 ms

Remote clock offset: 1.13 ms

Below is generated by plot.py at 2018-12-20 04:34:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 241.41 Mbit/s

95th percentile per-packet one-way delay: 1.602 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 126.38 Mbit/s

95th percentile per-packet one-way delay: 1.108 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 86.45 Mbit/s

95th percentile per-packet one-way delay: 1.180 ms

Loss rate: 0.04%

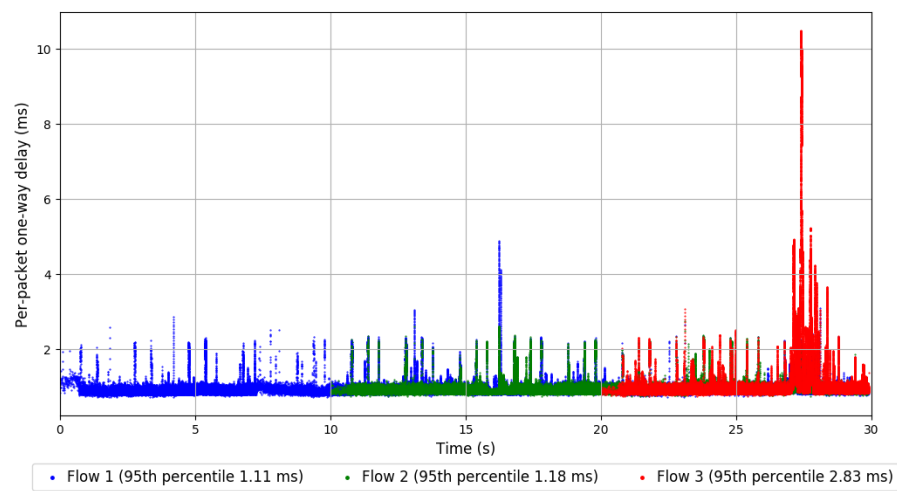
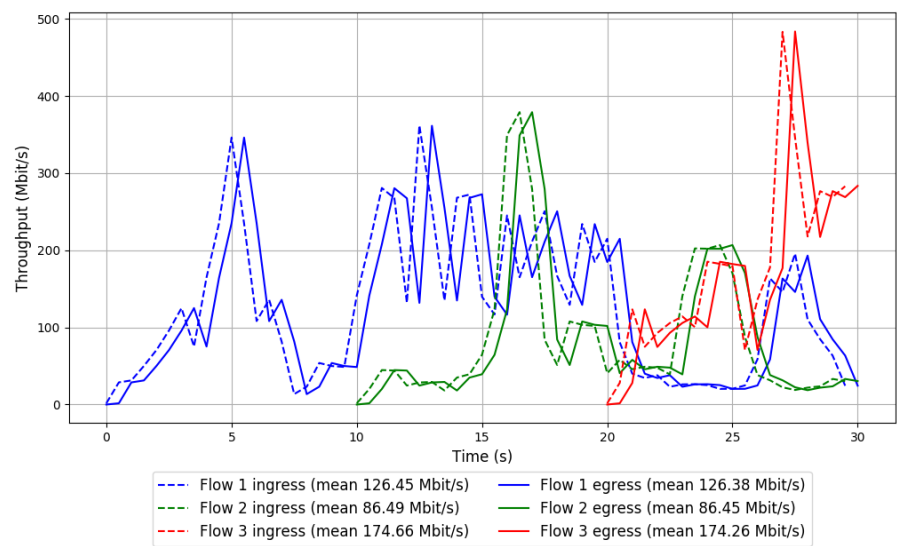
-- Flow 3:

Average throughput: 174.26 Mbit/s

95th percentile per-packet one-way delay: 2.830 ms

Loss rate: 0.23%

Run 2: Report of PCC-Vivace — Data Link

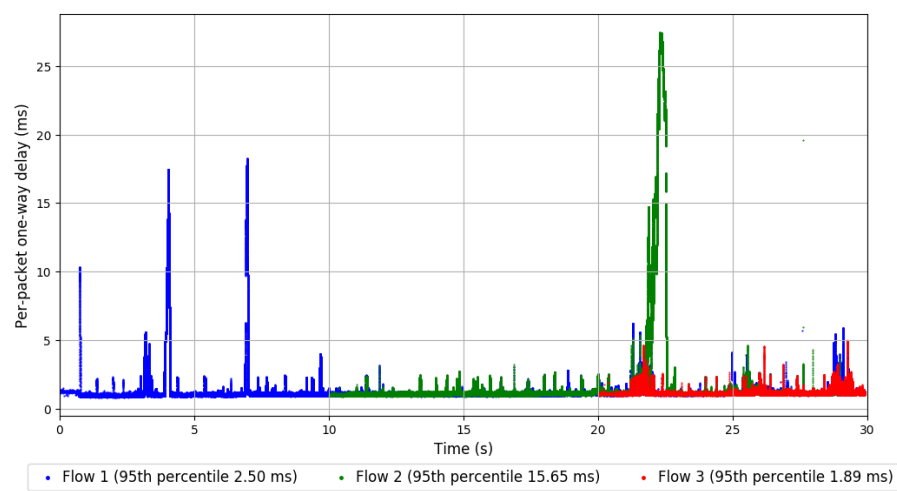
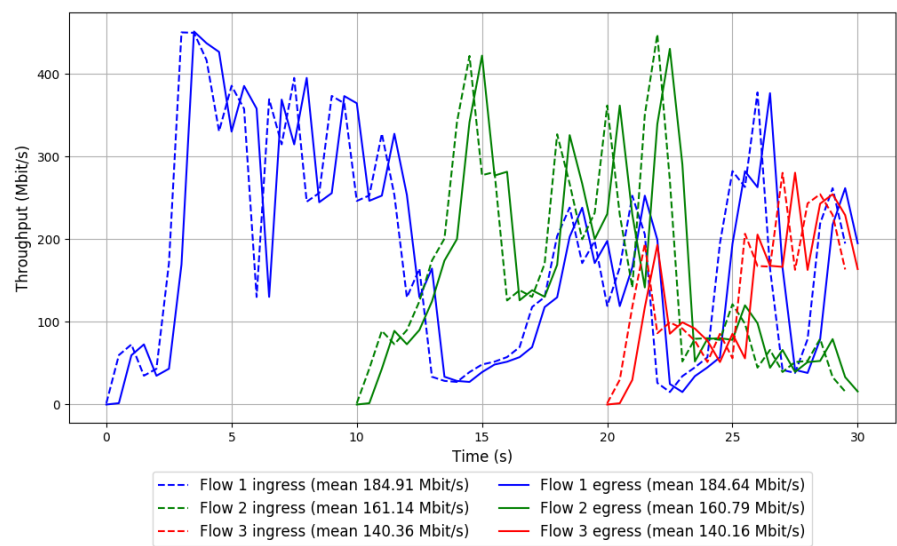


Run 3: Statistics of PCC-Vivace

Start at: 2018-12-20 02:45:22
End at: 2018-12-20 02:45:52
Local clock offset: 4.931 ms
Remote clock offset: -1.389 ms

Below is generated by plot.py at 2018-12-20 04:35:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 337.80 Mbit/s
95th percentile per-packet one-way delay: 3.683 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 184.64 Mbit/s
95th percentile per-packet one-way delay: 2.504 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 160.79 Mbit/s
95th percentile per-packet one-way delay: 15.649 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 140.16 Mbit/s
95th percentile per-packet one-way delay: 1.886 ms
Loss rate: 0.15%

Run 3: Report of PCC-Vivace — Data Link

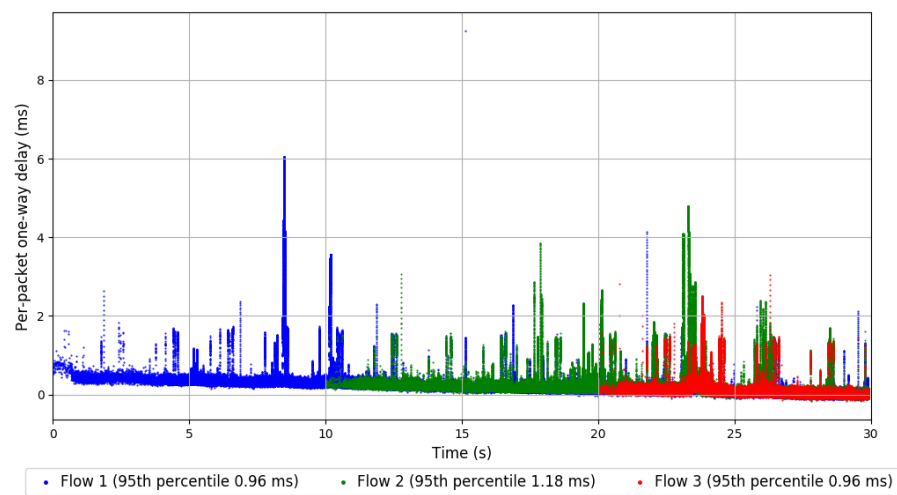
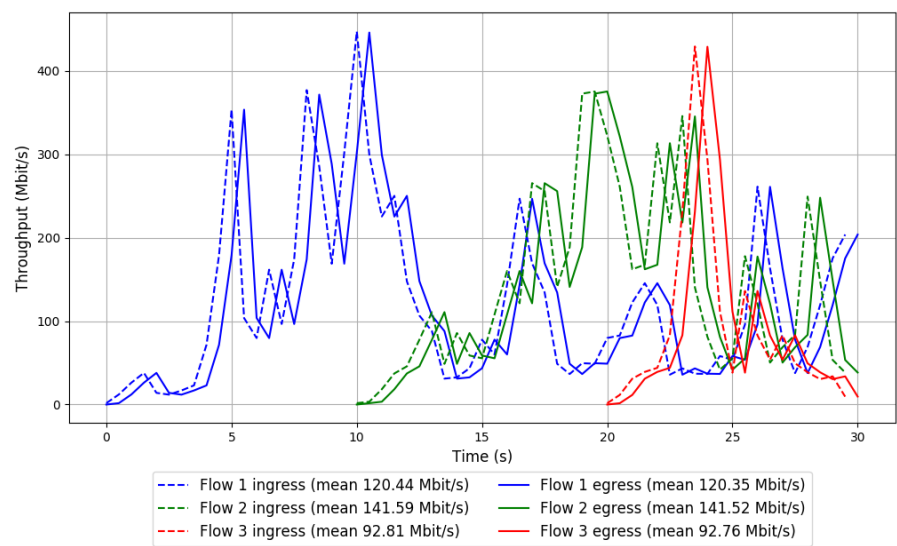


Run 4: Statistics of PCC-Vivace

Start at: 2018-12-20 03:11:57
End at: 2018-12-20 03:12:27
Local clock offset: 2.598 ms
Remote clock offset: -4.719 ms

Below is generated by plot.py at 2018-12-20 04:35:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 245.10 Mbit/s
95th percentile per-packet one-way delay: 1.072 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 120.35 Mbit/s
95th percentile per-packet one-way delay: 0.959 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 141.52 Mbit/s
95th percentile per-packet one-way delay: 1.181 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 92.76 Mbit/s
95th percentile per-packet one-way delay: 0.963 ms
Loss rate: 0.06%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-12-20 03:38:27

End at: 2018-12-20 03:38:57

Local clock offset: -1.939 ms

Remote clock offset: 0.098 ms

Below is generated by plot.py at 2018-12-20 04:35:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 336.79 Mbit/s

95th percentile per-packet one-way delay: 13.395 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 216.75 Mbit/s

95th percentile per-packet one-way delay: 9.031 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 140.84 Mbit/s

95th percentile per-packet one-way delay: 45.552 ms

Loss rate: 1.33%

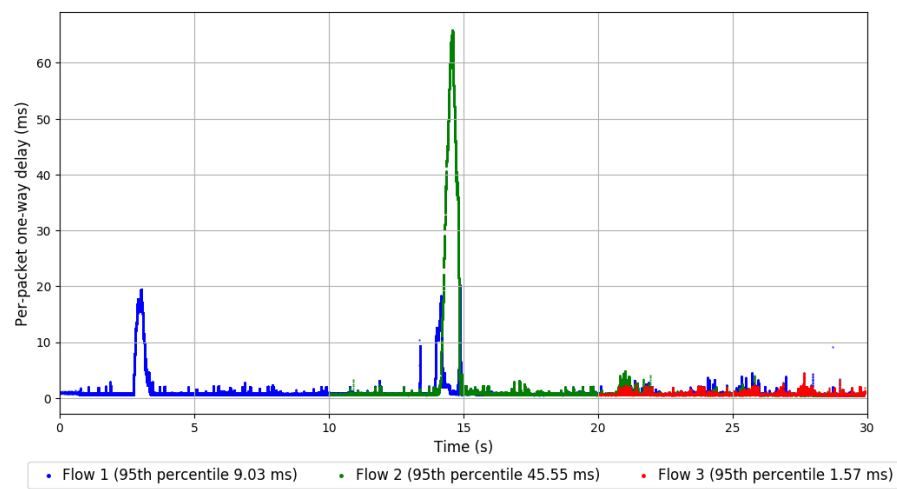
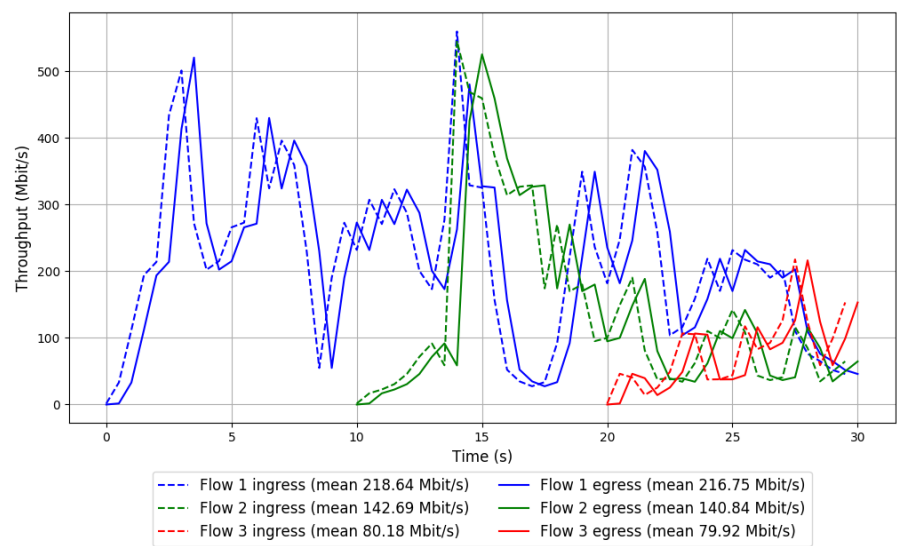
-- Flow 3:

Average throughput: 79.92 Mbit/s

95th percentile per-packet one-way delay: 1.575 ms

Loss rate: 0.32%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-12-20 01:48:46

End at: 2018-12-20 01:49:16

Local clock offset: 0.571 ms

Remote clock offset: 0.659 ms

Below is generated by plot.py at 2018-12-20 04:35:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 1.506 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 1.525 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 1.312 ms

Loss rate: 0.04%

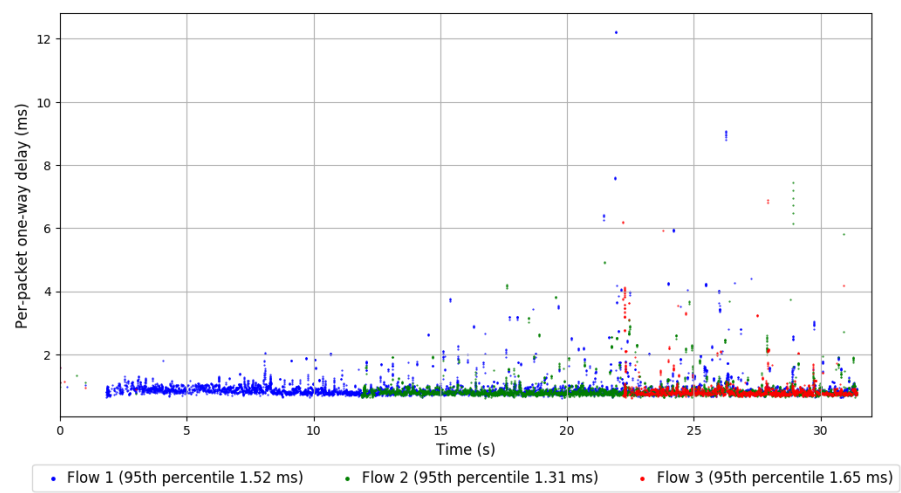
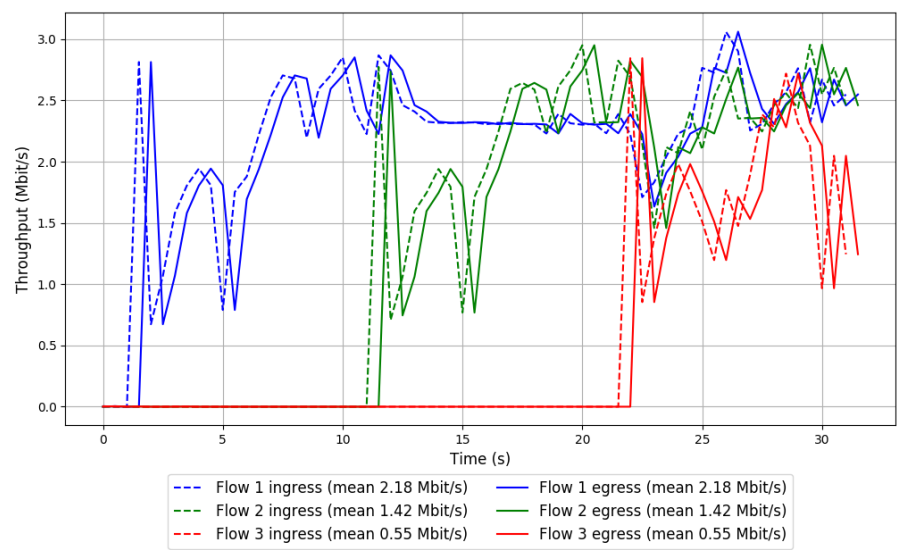
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 1.647 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-12-20 02:15:41

End at: 2018-12-20 02:16:11

Local clock offset: 2.807 ms

Remote clock offset: 1.079 ms

Below is generated by plot.py at 2018-12-20 04:35:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 4.711 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 5.179 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 4.425 ms

Loss rate: 0.00%

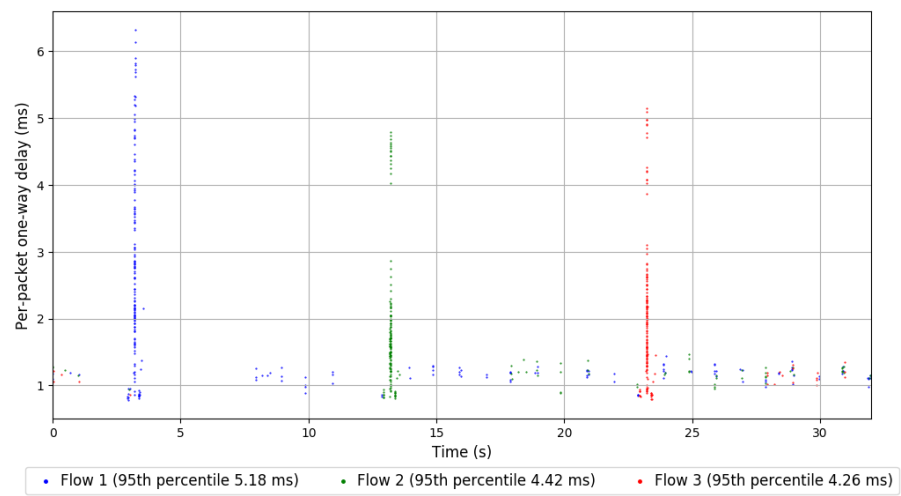
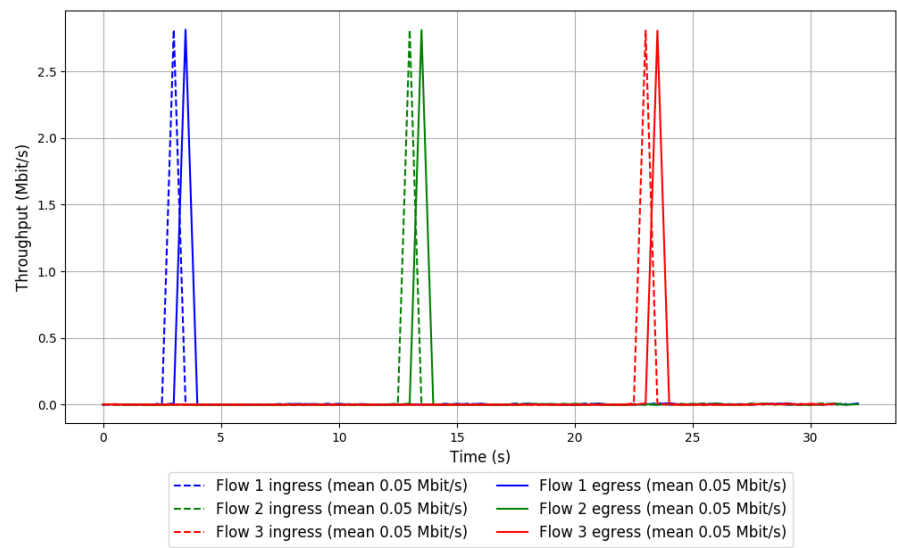
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 4.258 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

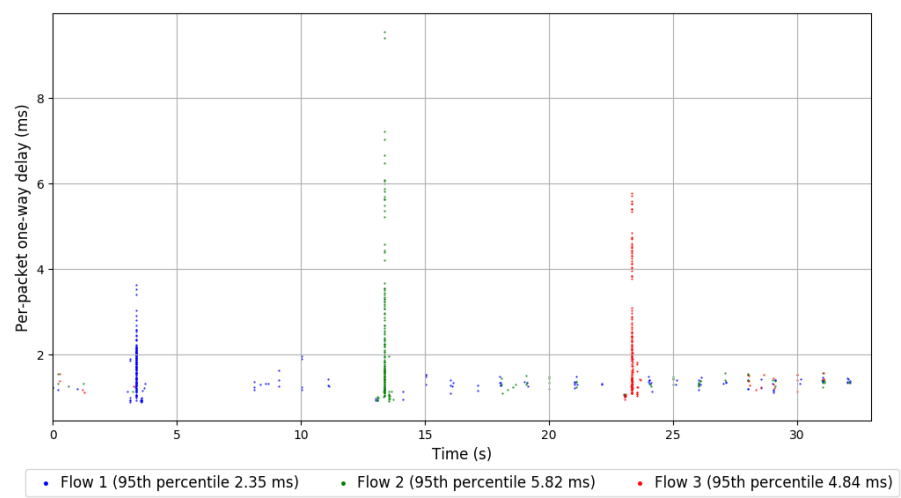
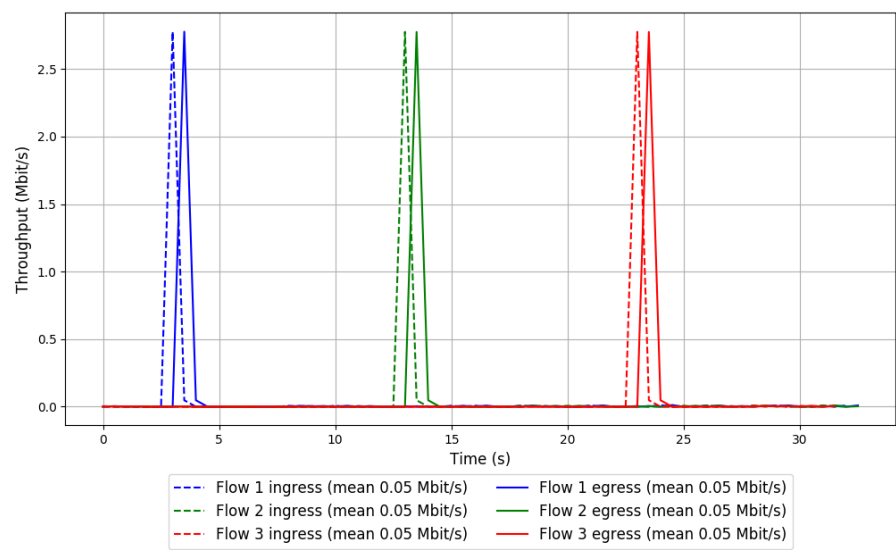


Run 3: Statistics of WebRTC media

Start at: 2018-12-20 02:42:33
End at: 2018-12-20 02:43:03
Local clock offset: 4.794 ms
Remote clock offset: -0.577 ms

Below is generated by plot.py at 2018-12-20 04:35:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 4.605 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 2.353 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 5.822 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.844 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

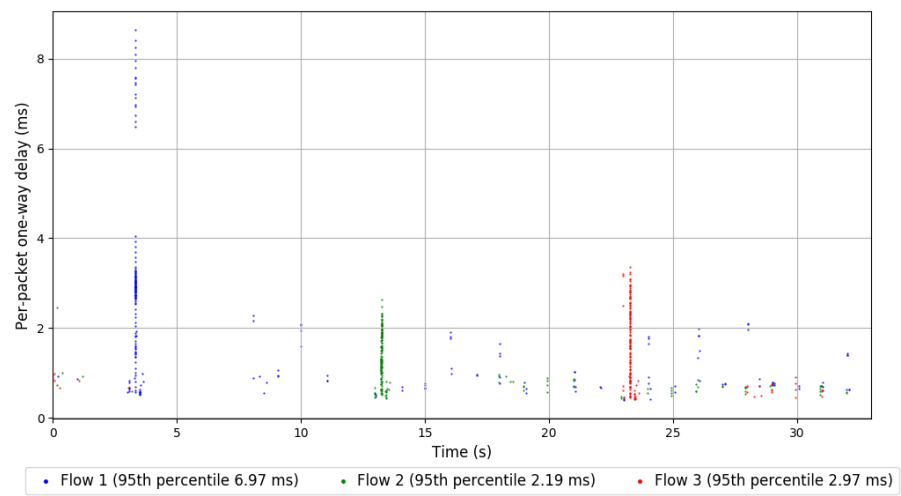
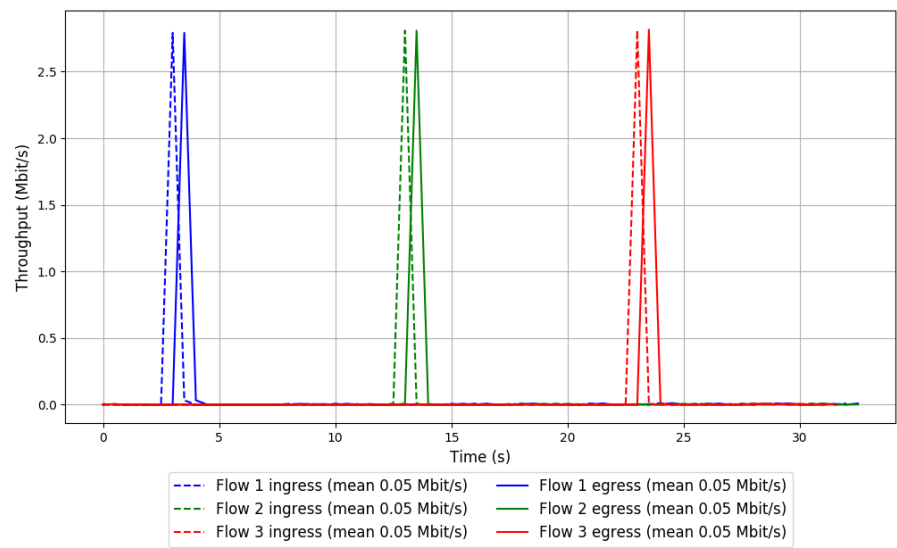


Run 4: Statistics of WebRTC media

Start at: 2018-12-20 03:09:08
End at: 2018-12-20 03:09:38
Local clock offset: 3.775 ms
Remote clock offset: -4.539 ms

Below is generated by plot.py at 2018-12-20 04:35:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 3.253 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 6.970 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 2.185 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 2.968 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-12-20 03:35:40

End at: 2018-12-20 03:36:10

Local clock offset: -1.369 ms

Remote clock offset: 0.003 ms

Below is generated by plot.py at 2018-12-20 04:35:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 3.581 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 2.648 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 4.683 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.949 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

