

Pantheon Report

Generated at 2018-11-30 10:24:58 (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:

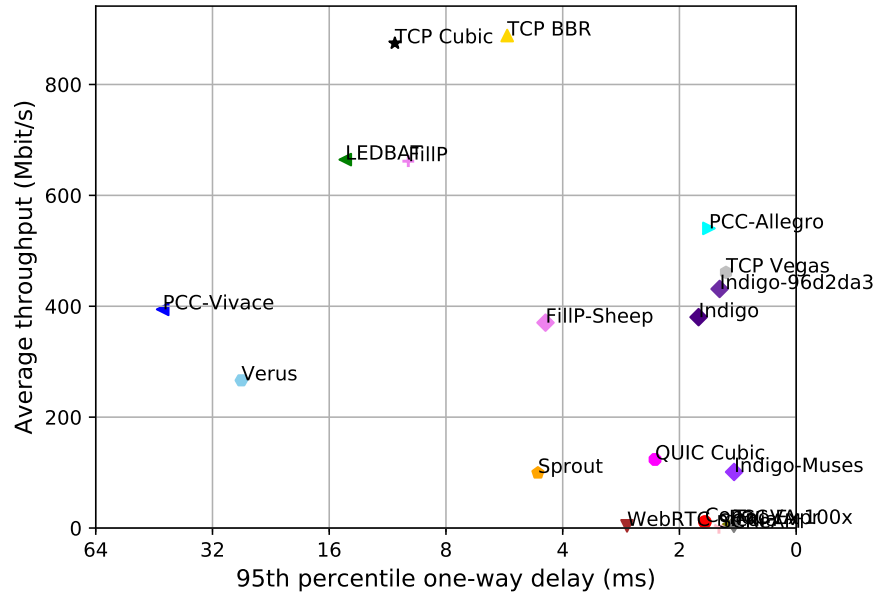
```
Linux 4.15.0-1027-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

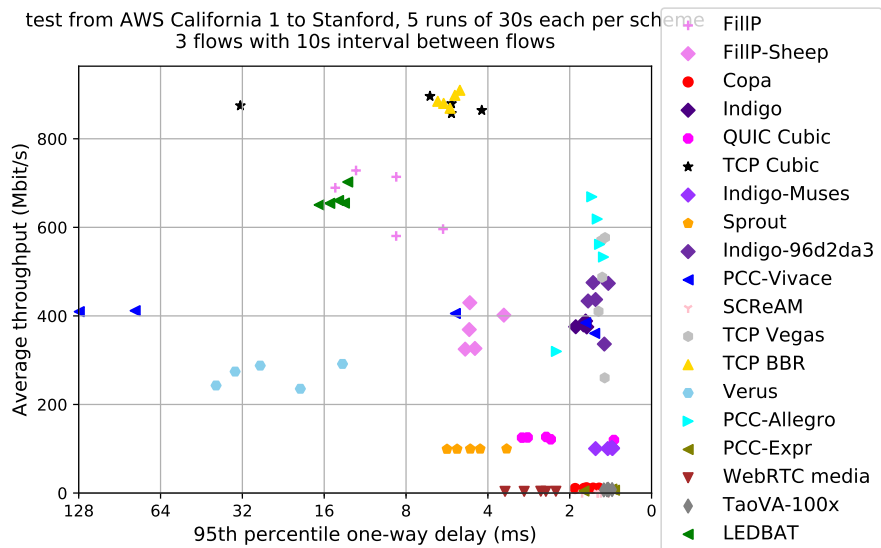
```
branch: muses @ 7b6dad87cde3ab65f7c4052140eb54098aa58e9d
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf5e58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/indigo-96d2da3 @ 8413272d46f8aa0bcb967ed7048b6a8f994abb95
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 65ac1b19bbefed0c6349ae986009b4fa8643c40a
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



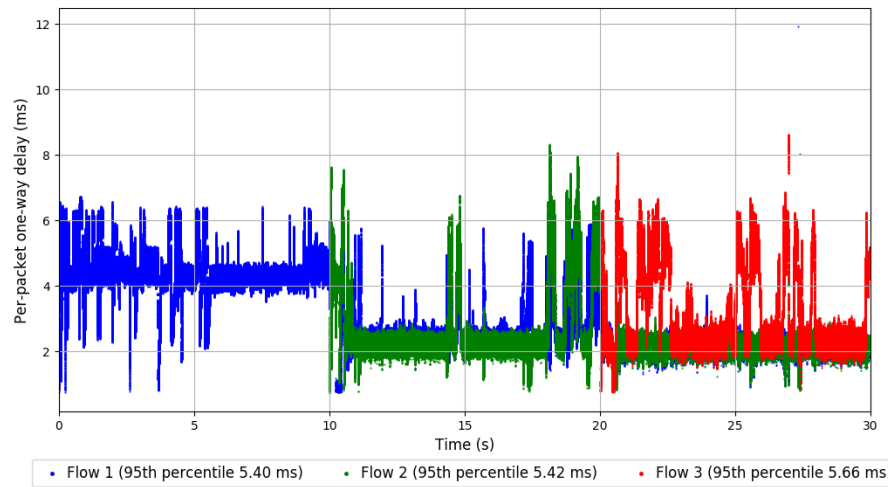
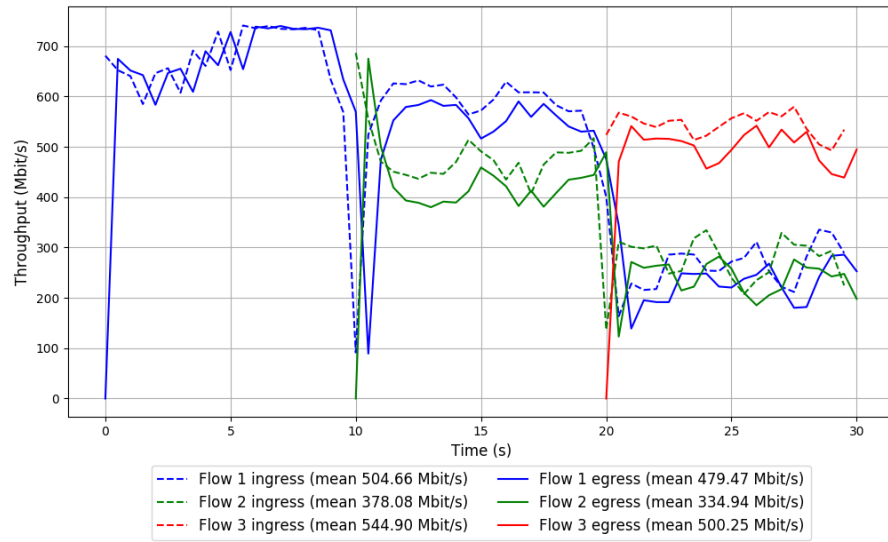
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	521.65	377.43	346.27	5.42	5.54	4.34	4.99	9.85	11.93
Copa	5	6.51	3.85	7.56	1.55	1.86	1.51	48.56	50.35	50.75
TCP Cubic	5	512.93	384.08	317.46	12.18	2.20	2.23	0.06	0.05	0.08
FillP	5	454.42	259.04	105.29	11.31	3.58	3.42	11.32	9.55	14.23
FillP-Sheep	5	315.42	65.95	33.77	4.63	1.97	2.42	3.12	2.73	5.80
Indigo	5	195.56	188.13	184.63	1.49	1.67	2.01	0.00	0.00	0.00
Indigo-96d2da3	5	258.97	136.84	246.06	1.31	1.12	1.41	0.00	0.00	0.00
LEDBAT	5	359.66	336.39	260.23	15.96	8.26	5.67	0.18	0.29	0.41
Indigo-Muses	5	50.29	50.59	52.23	1.08	1.06	0.98	0.00	0.00	0.00
PCC-Allegro	5	183.68	485.89	102.12	1.42	1.52	1.59	0.06	0.11	0.15
PCC-Expr	5	0.74	7.48	6.62	1.21	1.16	1.13	85.71	21.06	28.87
QUIC Cubic	5	65.74	60.60	53.56	0.90	2.53	5.38	0.00	0.00	0.02
SCReAM	5	0.22	0.22	0.22	1.33	1.30	1.32	0.00	0.00	0.00
Sprout	5	49.95	49.82	49.56	4.59	4.69	4.60	0.06	0.08	0.15
TaoVA-100x	5	0.00	5.79	11.15	1.06	1.10	1.01	95.92	55.98	75.96
TCP Vegas	5	181.28	260.20	319.73	1.19	1.17	1.23	0.00	0.00	0.00
Verus	5	146.71	118.64	124.15	17.65	35.73	44.74	3.92	5.32	4.41
PCC-Vivace	5	223.87	171.72	170.74	26.59	2.33	78.96	0.19	0.05	2.47
WebRTC media	5	2.01	1.38	0.50	2.71	2.62	2.78	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-11-30 07:21:25
End at: 2018-11-30 07:21:55
Local clock offset: -0.114 ms
Remote clock offset: -0.307 ms

Below is generated by plot.py at 2018-11-30 09:46:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 869.00 Mbit/s
95th percentile per-packet one-way delay: 5.510 ms
Loss rate: 7.33%
-- Flow 1:
Average throughput: 479.47 Mbit/s
95th percentile per-packet one-way delay: 5.401 ms
Loss rate: 4.99%
-- Flow 2:
Average throughput: 334.94 Mbit/s
95th percentile per-packet one-way delay: 5.416 ms
Loss rate: 11.39%
-- Flow 3:
Average throughput: 500.25 Mbit/s
95th percentile per-packet one-way delay: 5.664 ms
Loss rate: 8.19%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-11-30 07:48:34

End at: 2018-11-30 07:49:04

Local clock offset: 1.099 ms

Remote clock offset: 0.225 ms

Below is generated by plot.py at 2018-11-30 09:46:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 909.58 Mbit/s

95th percentile per-packet one-way delay: 5.072 ms

Loss rate: 7.47%

-- Flow 1:

Average throughput: 538.98 Mbit/s

95th percentile per-packet one-way delay: 5.279 ms

Loss rate: 5.85%

-- Flow 2:

Average throughput: 451.23 Mbit/s

95th percentile per-packet one-way delay: 3.527 ms

Loss rate: 8.76%

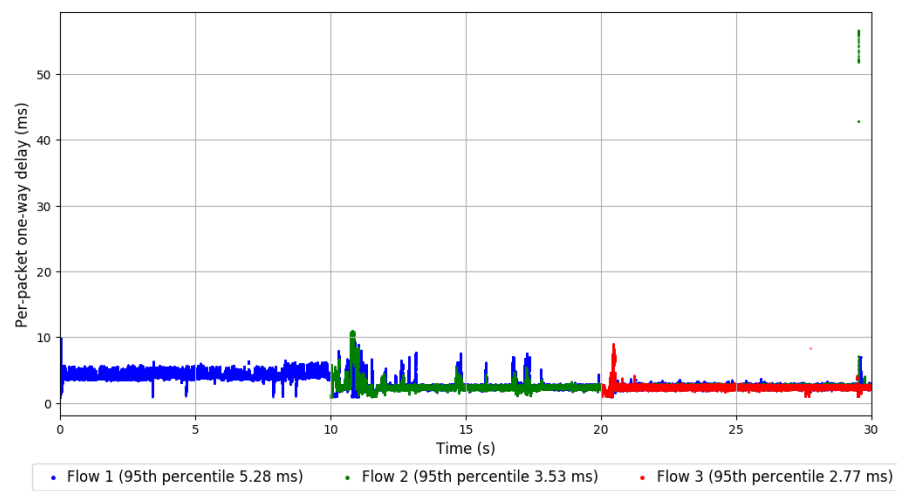
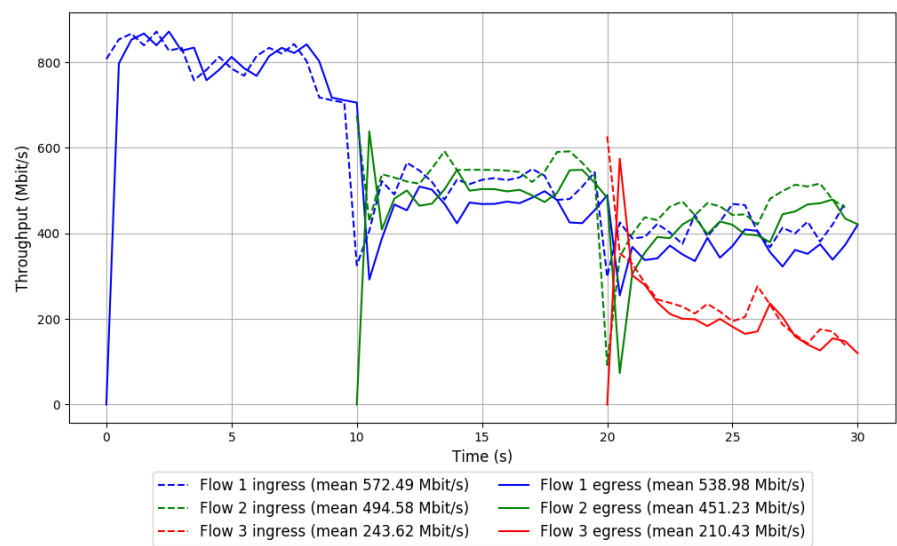
-- Flow 3:

Average throughput: 210.43 Mbit/s

95th percentile per-packet one-way delay: 2.771 ms

Loss rate: 13.62%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-11-30 08:15:37

End at: 2018-11-30 08:16:07

Local clock offset: 3.632 ms

Remote clock offset: 0.119 ms

Below is generated by plot.py at 2018-11-30 09:46:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 898.14 Mbit/s

95th percentile per-packet one-way delay: 5.291 ms

Loss rate: 7.11%

-- Flow 1:

Average throughput: 557.49 Mbit/s

95th percentile per-packet one-way delay: 5.273 ms

Loss rate: 4.50%

-- Flow 2:

Average throughput: 336.21 Mbit/s

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

Loss rate: 10.55%

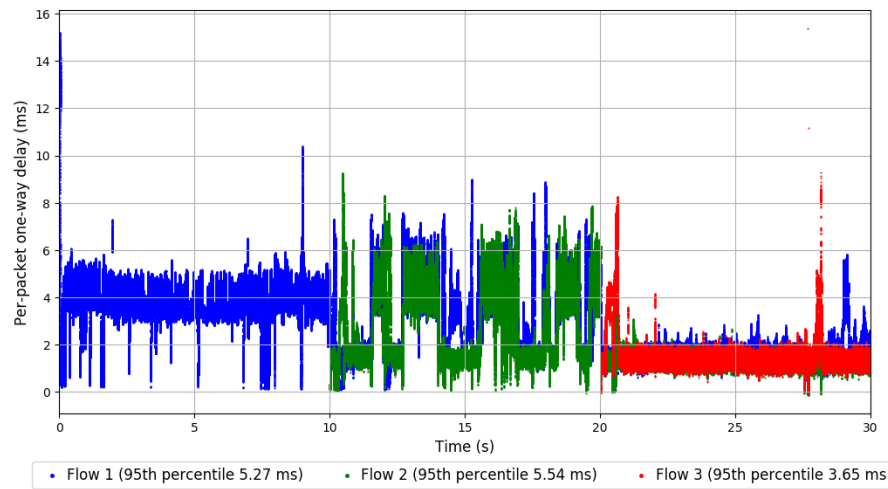
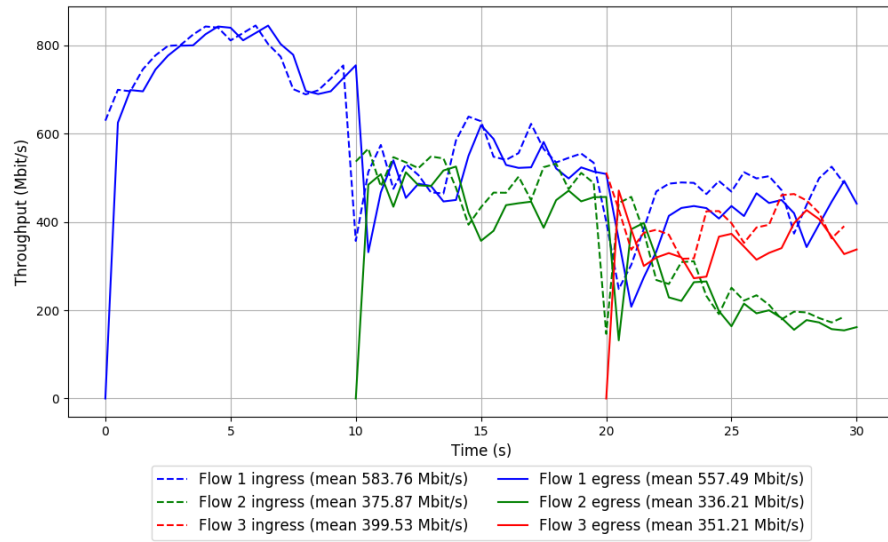
-- Flow 3:

Average throughput: 351.21 Mbit/s

95th percentile per-packet one-way delay: 3.646 ms

Loss rate: 12.09%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-11-30 08:42:42

End at: 2018-11-30 08:43:12

Local clock offset: -4.128 ms

Remote clock offset: 0.168 ms

Below is generated by plot.py at 2018-11-30 09:46:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 884.70 Mbit/s

95th percentile per-packet one-way delay: 6.115 ms

Loss rate: 7.59%

-- Flow 1:

Average throughput: 497.25 Mbit/s

95th percentile per-packet one-way delay: 5.795 ms

Loss rate: 5.57%

-- Flow 2:

Average throughput: 412.13 Mbit/s

95th percentile per-packet one-way delay: 6.715 ms

Loss rate: 8.73%

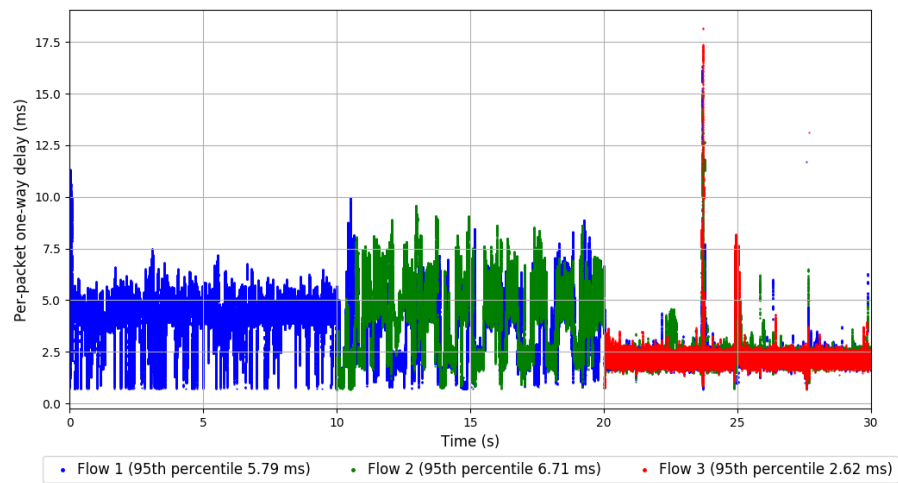
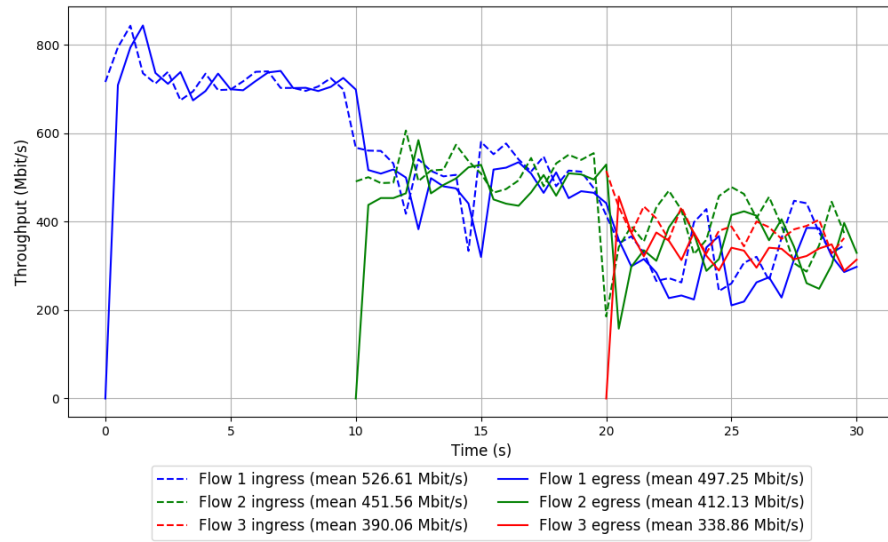
-- Flow 3:

Average throughput: 338.86 Mbit/s

95th percentile per-packet one-way delay: 2.623 ms

Loss rate: 13.13%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-11-30 09:09:49

End at: 2018-11-30 09:10:19

Local clock offset: -6.037 ms

Remote clock offset: 0.392 ms

Below is generated by plot.py at 2018-11-30 09:46:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 879.94 Mbit/s

95th percentile per-packet one-way delay: 5.819 ms

Loss rate: 6.77%

-- Flow 1:

Average throughput: 535.05 Mbit/s

95th percentile per-packet one-way delay: 5.346 ms

Loss rate: 4.02%

-- Flow 2:

Average throughput: 352.63 Mbit/s

95th percentile per-packet one-way delay: 6.514 ms

Loss rate: 9.82%

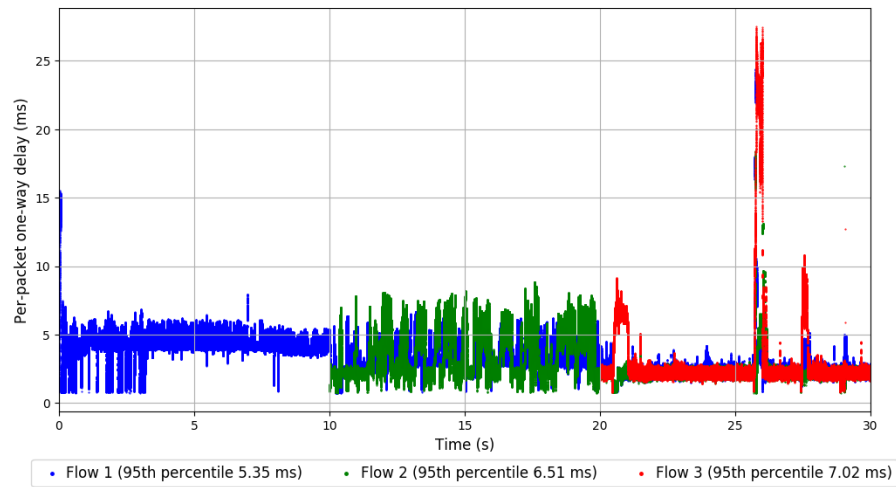
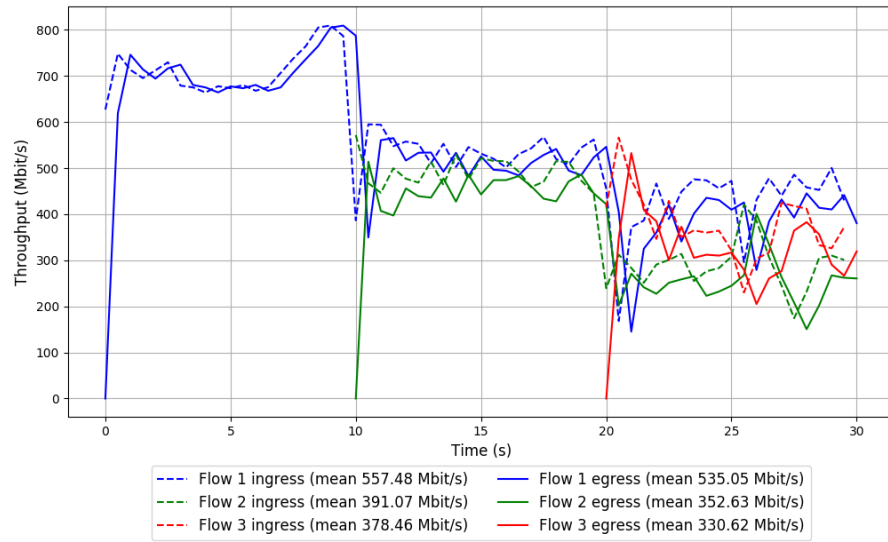
-- Flow 3:

Average throughput: 330.62 Mbit/s

95th percentile per-packet one-way delay: 7.020 ms

Loss rate: 12.64%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-11-30 07:40:19

End at: 2018-11-30 07:40:49

Local clock offset: -0.011 ms

Remote clock offset: 0.162 ms

Below is generated by plot.py at 2018-11-30 09:46:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.08 Mbit/s

95th percentile per-packet one-way delay: 1.283 ms

Loss rate: 54.55%

-- Flow 1:

Average throughput: 5.27 Mbit/s

95th percentile per-packet one-way delay: 1.423 ms

Loss rate: 44.99%

-- Flow 2:

Average throughput: 4.50 Mbit/s

95th percentile per-packet one-way delay: 1.248 ms

Loss rate: 60.55%

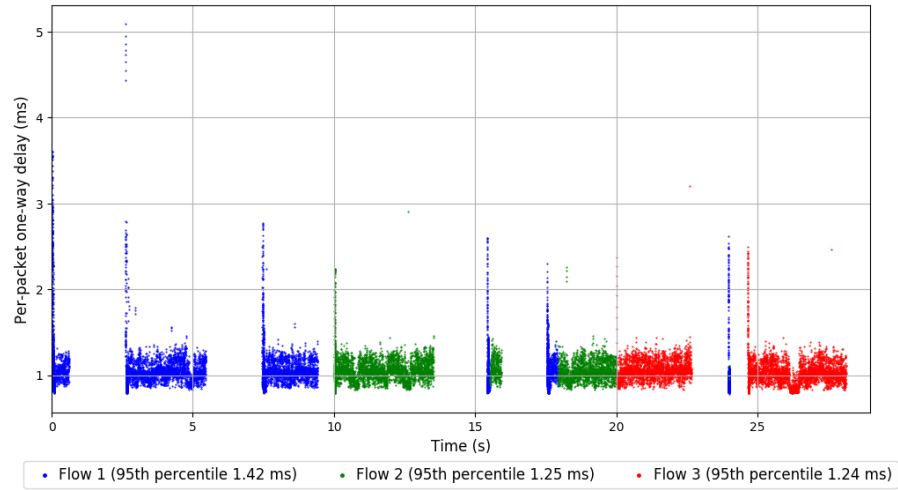
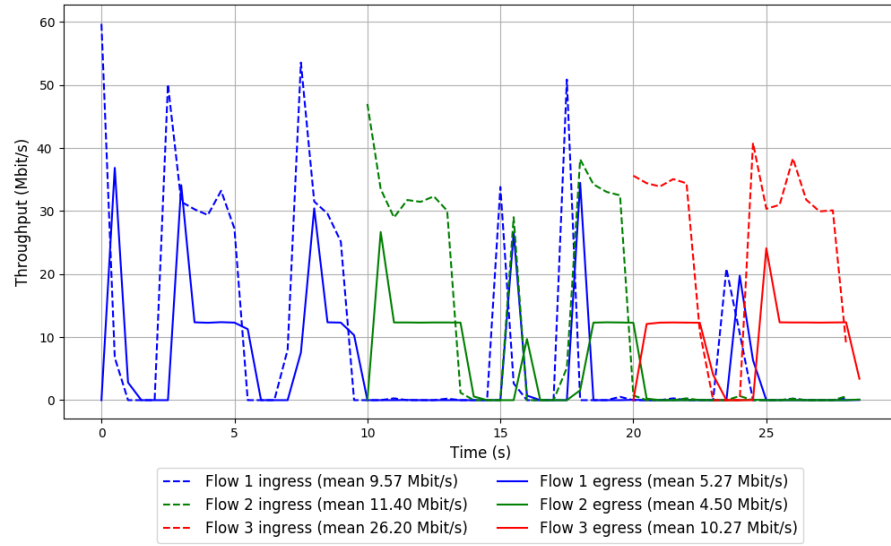
-- Flow 3:

Average throughput: 10.27 Mbit/s

95th percentile per-packet one-way delay: 1.240 ms

Loss rate: 60.81%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-11-30 08:07:34

End at: 2018-11-30 08:08:04

Local clock offset: 3.631 ms

Remote clock offset: 0.365 ms

Below is generated by plot.py at 2018-11-30 09:46:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.45 Mbit/s

95th percentile per-packet one-way delay: 1.651 ms

Loss rate: 48.66%

-- Flow 1:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 1.660 ms

Loss rate: 49.05%

-- Flow 2:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 2.361 ms

Loss rate: 45.86%

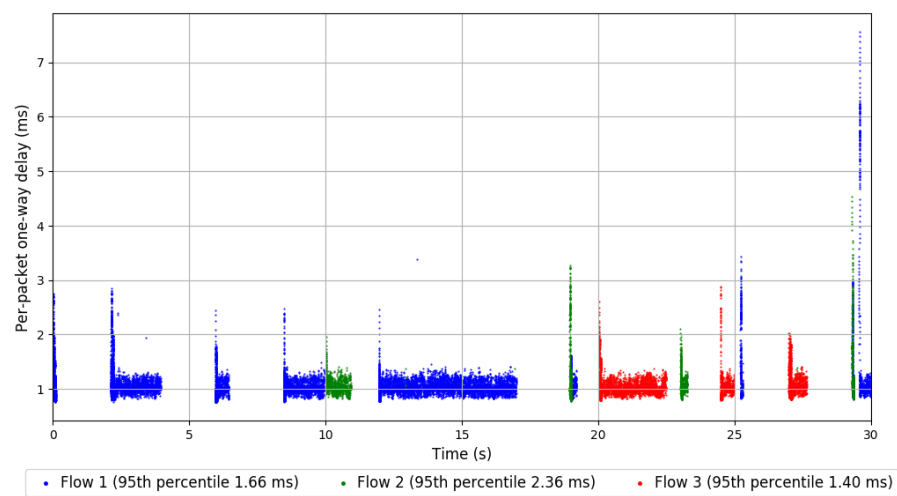
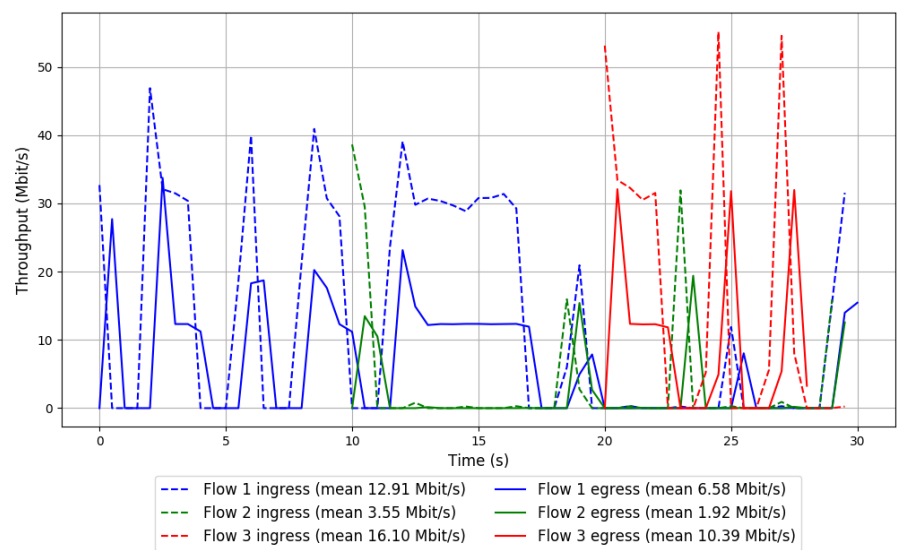
-- Flow 3:

Average throughput: 10.39 Mbit/s

95th percentile per-packet one-way delay: 1.401 ms

Loss rate: 48.92%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-11-30 08:34:37

End at: 2018-11-30 08:35:07

Local clock offset: -3.22 ms

Remote clock offset: 0.089 ms

Below is generated by plot.py at 2018-11-30 09:46:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.10 Mbit/s

95th percentile per-packet one-way delay: 1.429 ms

Loss rate: 50.90%

-- Flow 1:

Average throughput: 6.11 Mbit/s

95th percentile per-packet one-way delay: 1.387 ms

Loss rate: 50.33%

-- Flow 2:

Average throughput: 5.70 Mbit/s

95th percentile per-packet one-way delay: 1.487 ms

Loss rate: 49.54%

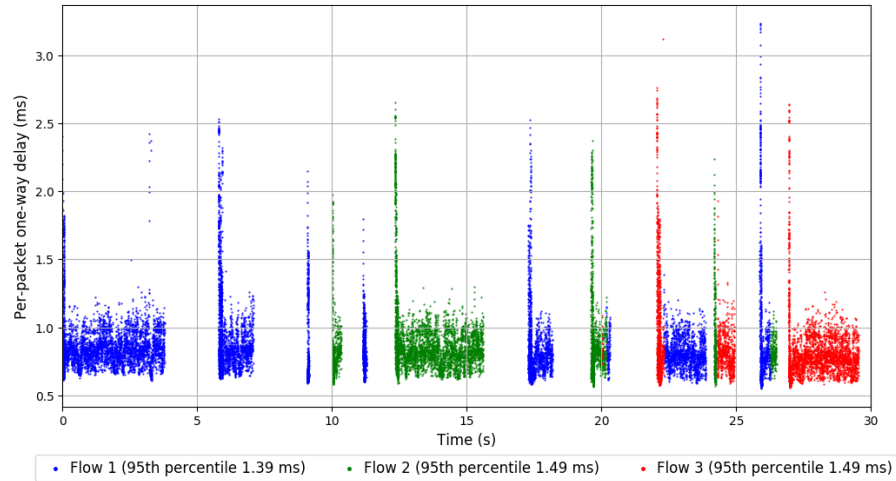
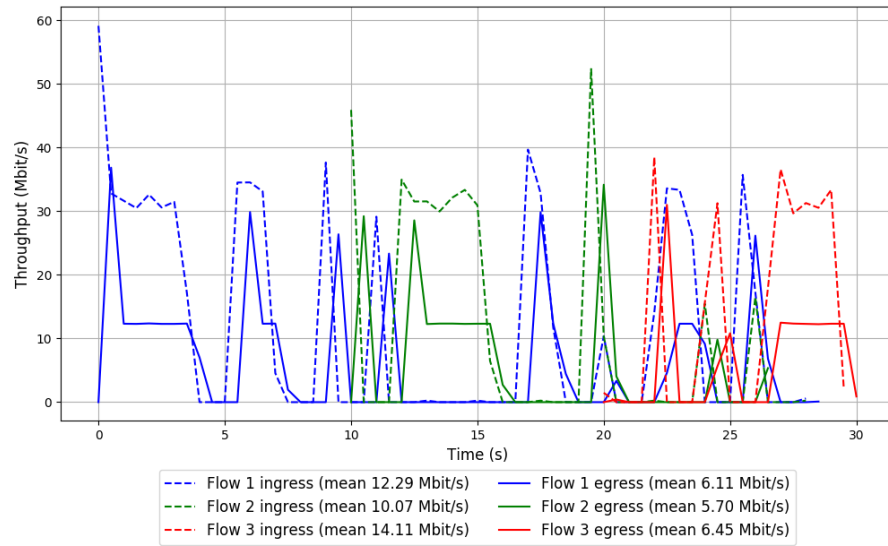
-- Flow 3:

Average throughput: 6.45 Mbit/s

95th percentile per-packet one-way delay: 1.493 ms

Loss rate: 54.27%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-11-30 09:01:33

End at: 2018-11-30 09:02:03

Local clock offset: -5.49 ms

Remote clock offset: 0.312 ms

Below is generated by plot.py at 2018-11-30 09:46:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.89 Mbit/s

95th percentile per-packet one-way delay: 1.589 ms

Loss rate: 52.13%

-- Flow 1:

Average throughput: 7.26 Mbit/s

95th percentile per-packet one-way delay: 1.444 ms

Loss rate: 52.61%

-- Flow 2:

Average throughput: 3.52 Mbit/s

95th percentile per-packet one-way delay: 1.963 ms

Loss rate: 45.31%

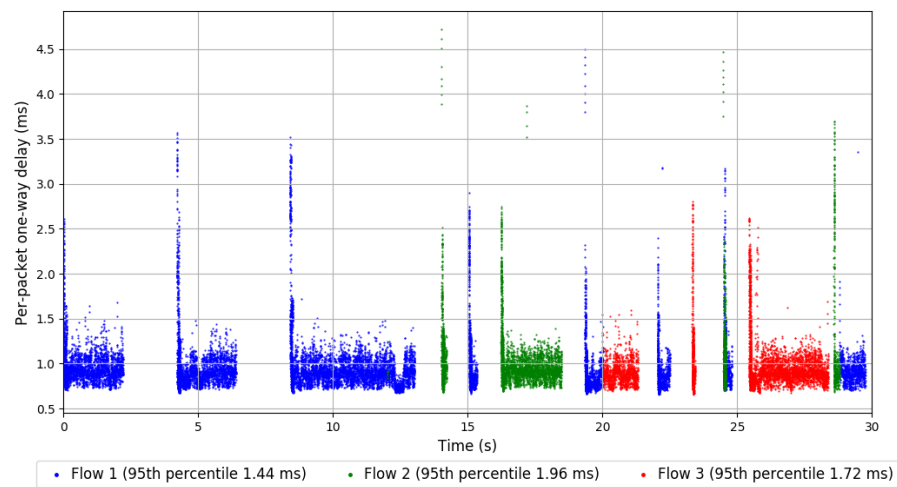
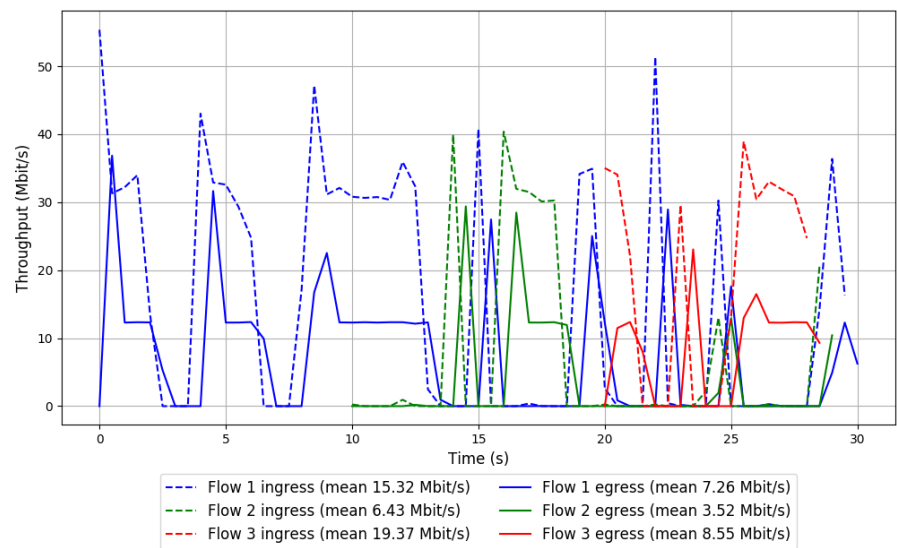
-- Flow 3:

Average throughput: 8.55 Mbit/s

95th percentile per-packet one-way delay: 1.715 ms

Loss rate: 55.88%

Run 4: Report of Copa — Data Link

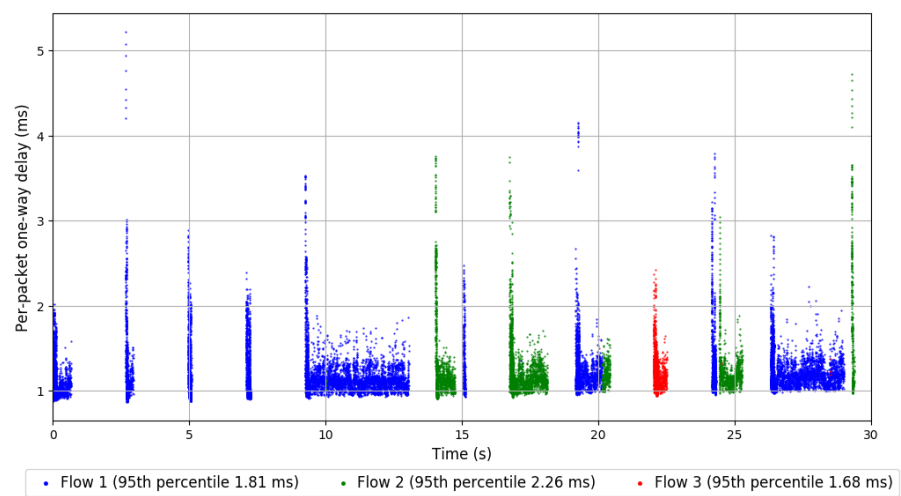
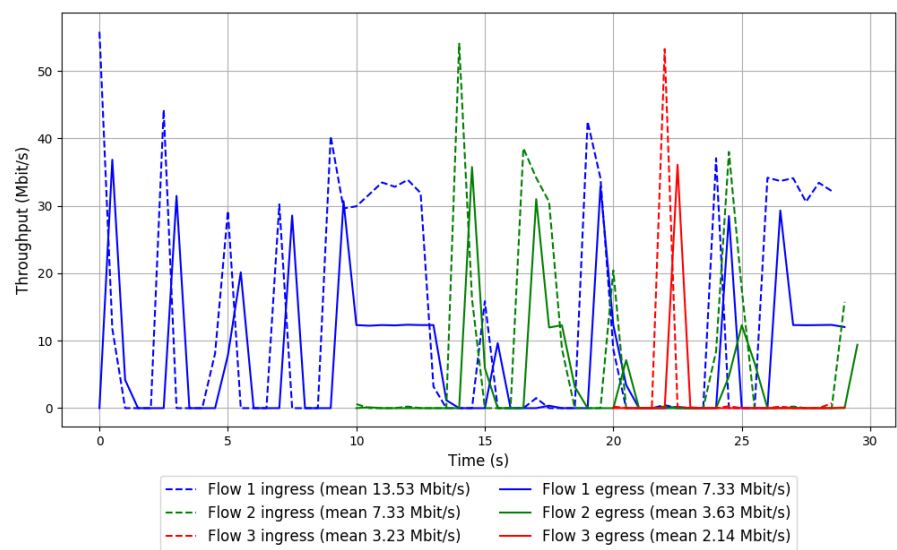


Run 5: Statistics of Copa

Start at: 2018-11-30 09:28:43
End at: 2018-11-30 09:29:13
Local clock offset: -0.439 ms
Remote clock offset: -0.201 ms

```
# Below is generated by plot.py at 2018-11-30 09:46:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.25 Mbit/s
95th percentile per-packet one-way delay: 1.867 ms
Loss rate: 46.43%
-- Flow 1:
Average throughput: 7.33 Mbit/s
95th percentile per-packet one-way delay: 1.813 ms
Loss rate: 45.83%
-- Flow 2:
Average throughput: 3.63 Mbit/s
95th percentile per-packet one-way delay: 2.256 ms
Loss rate: 50.51%
-- Flow 3:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 1.680 ms
Loss rate: 33.89%
```

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-11-30 07:35:21

End at: 2018-11-30 07:35:51

Local clock offset: -0.003 ms

Remote clock offset: 0.036 ms

Below is generated by plot.py at 2018-11-30 09:46:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 874.75 Mbit/s

95th percentile per-packet one-way delay: 32.550 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 508.36 Mbit/s

95th percentile per-packet one-way delay: 37.121 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 392.91 Mbit/s

95th percentile per-packet one-way delay: 2.214 ms

Loss rate: 0.05%

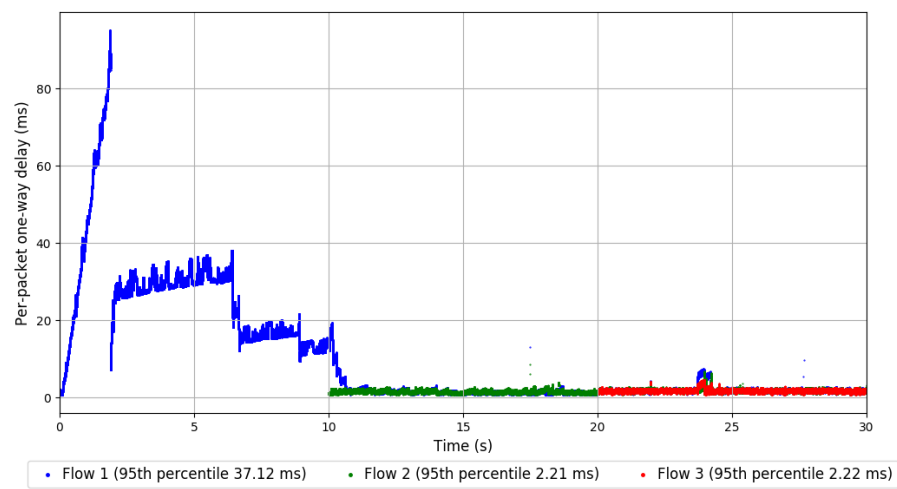
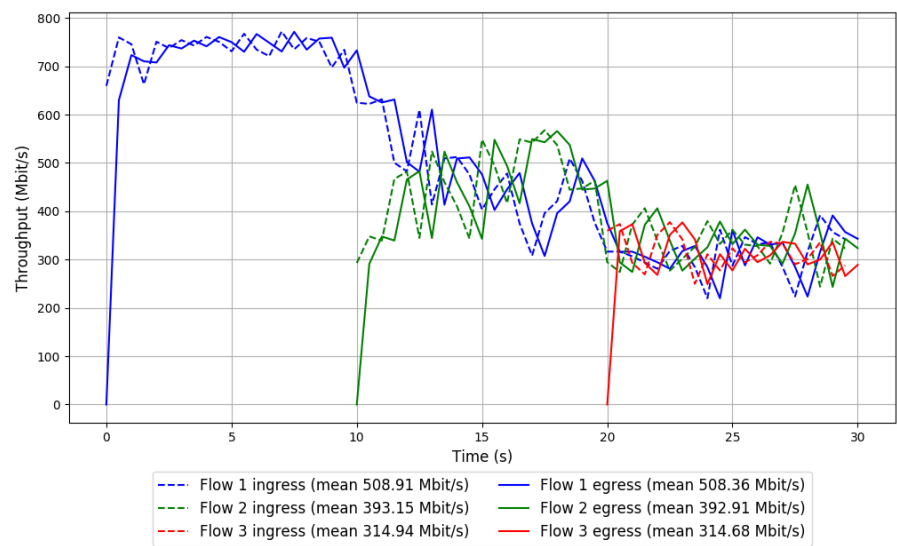
-- Flow 3:

Average throughput: 314.68 Mbit/s

95th percentile per-packet one-way delay: 2.219 ms

Loss rate: 0.08%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-11-30 08:02:36

End at: 2018-11-30 08:03:06

Local clock offset: 3.246 ms

Remote clock offset: 0.572 ms

Below is generated by plot.py at 2018-11-30 09:46:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 896.09 Mbit/s

95th percentile per-packet one-way delay: 6.531 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 531.18 Mbit/s

95th percentile per-packet one-way delay: 7.087 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 376.75 Mbit/s

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

Loss rate: 0.06%

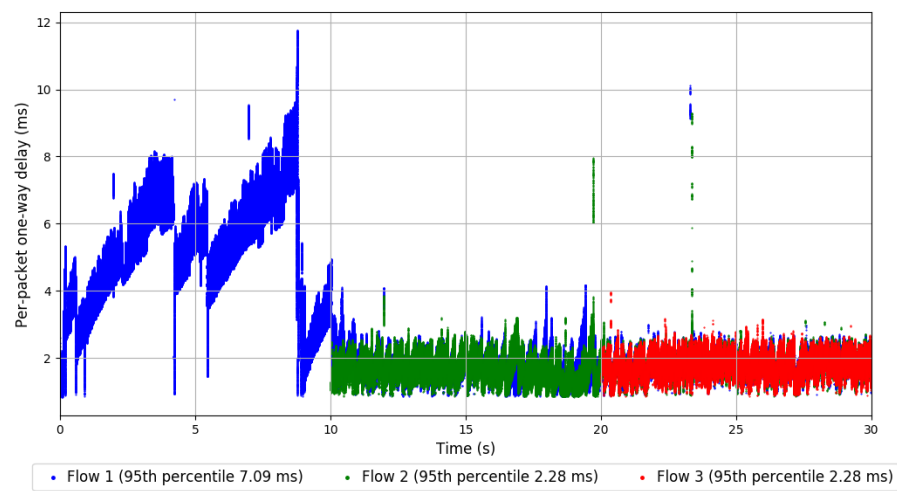
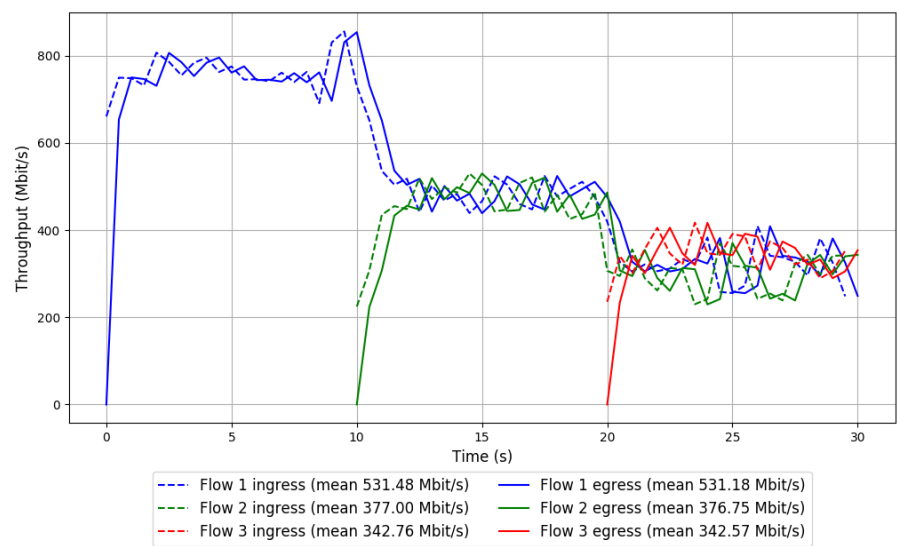
-- Flow 3:

Average throughput: 342.57 Mbit/s

95th percentile per-packet one-way delay: 2.278 ms

Loss rate: 0.06%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-11-30 08:29:40

End at: 2018-11-30 08:30:10

Local clock offset: -2.382 ms

Remote clock offset: 0.103 ms

Below is generated by plot.py at 2018-11-30 09:46:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 879.45 Mbit/s

95th percentile per-packet one-way delay: 5.443 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 535.81 Mbit/s

95th percentile per-packet one-way delay: 6.149 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 354.63 Mbit/s

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

Loss rate: 0.08%

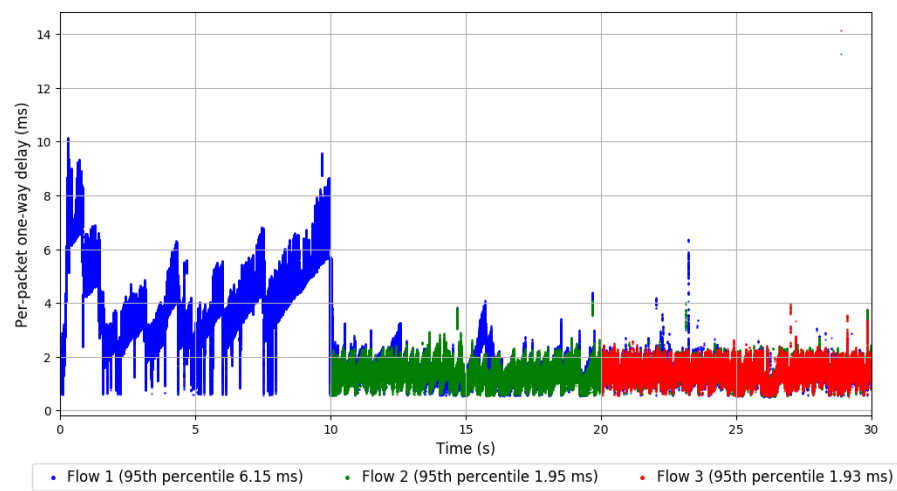
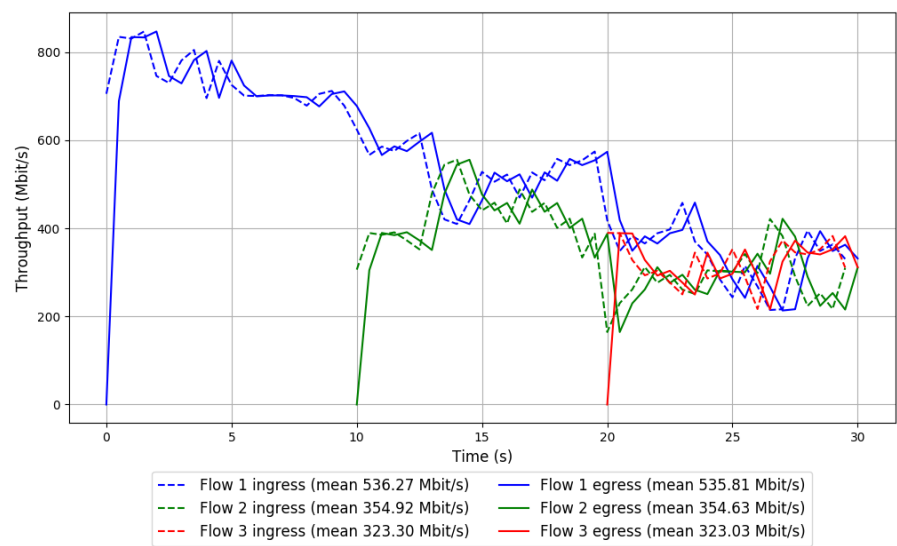
-- Flow 3:

Average throughput: 323.03 Mbit/s

95th percentile per-packet one-way delay: 1.934 ms

Loss rate: 0.08%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-11-30 08:56:36

End at: 2018-11-30 08:57:06

Local clock offset: -5.19 ms

Remote clock offset: 0.327 ms

Below is generated by plot.py at 2018-11-30 09:55:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 857.21 Mbit/s

95th percentile per-packet one-way delay: 5.444 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 495.01 Mbit/s

95th percentile per-packet one-way delay: 6.081 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 389.04 Mbit/s

95th percentile per-packet one-way delay: 2.076 ms

Loss rate: 0.04%

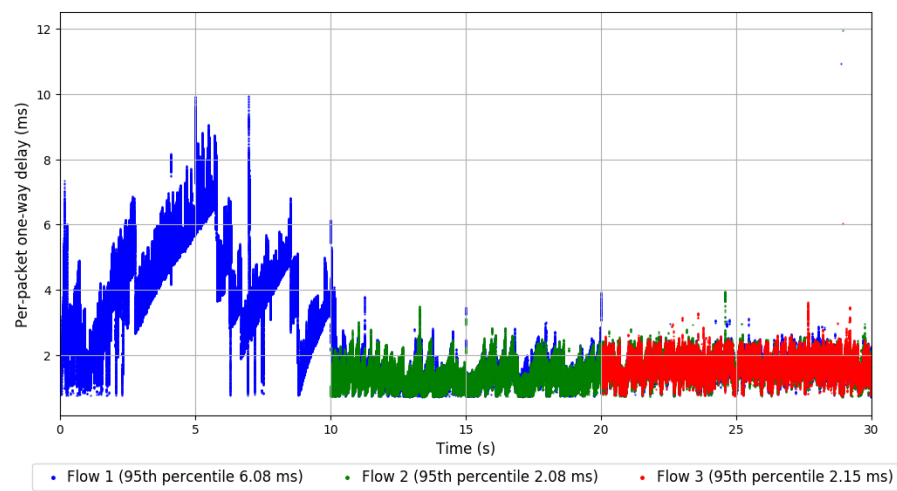
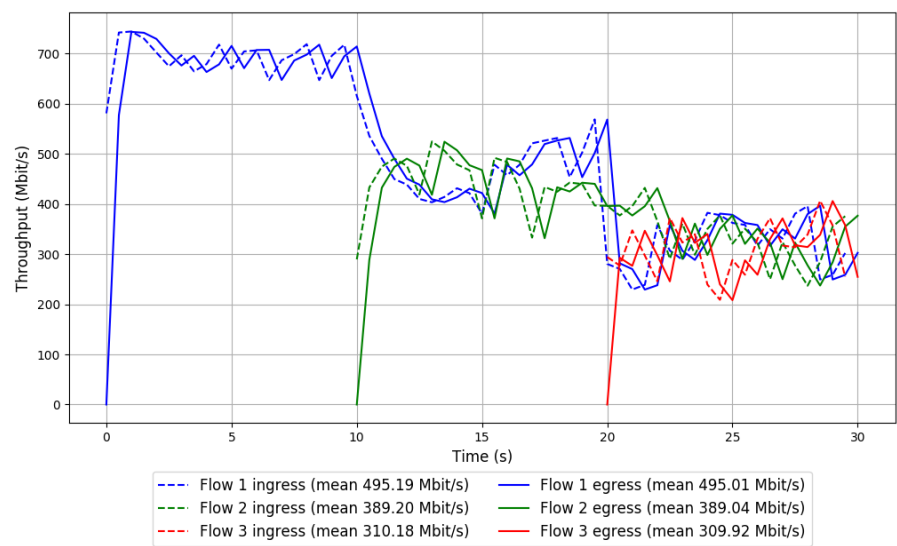
-- Flow 3:

Average throughput: 309.92 Mbit/s

95th percentile per-packet one-way delay: 2.151 ms

Loss rate: 0.08%

Run 4: Report of TCP Cubic — Data Link

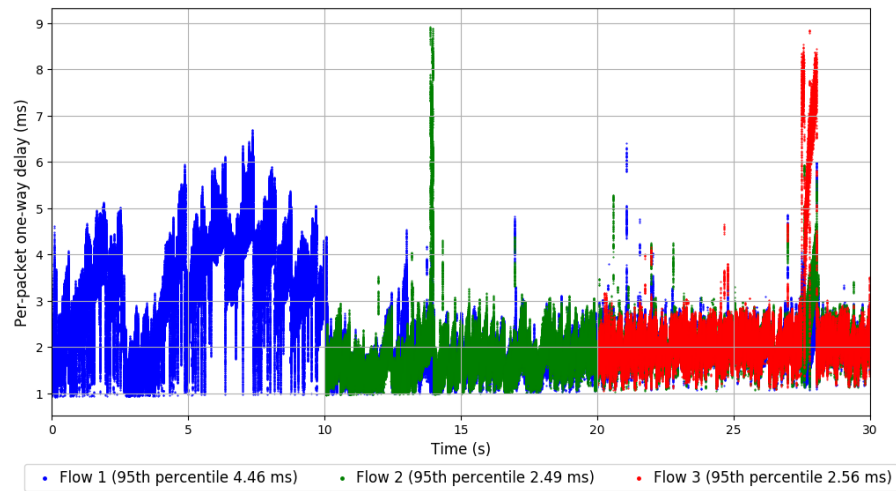
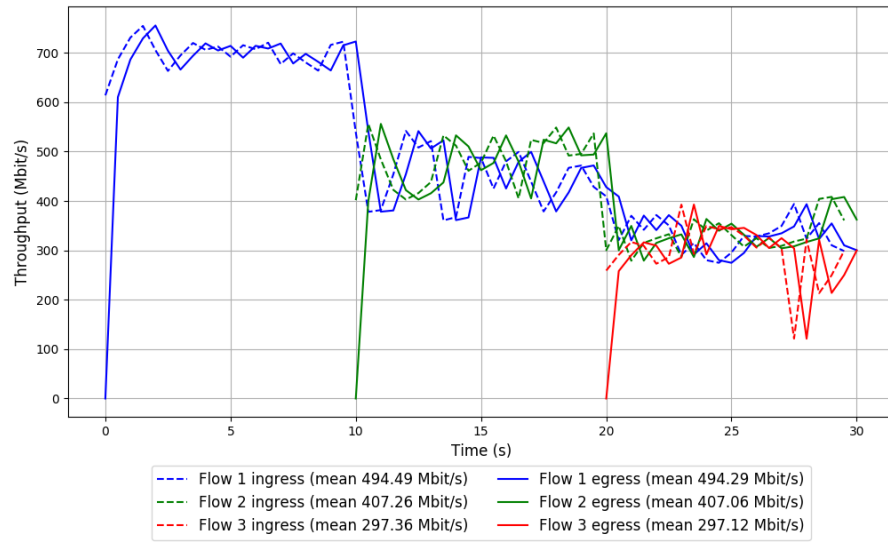


Run 5: Statistics of TCP Cubic

Start at: 2018-11-30 09:23:47
End at: 2018-11-30 09:24:17
Local clock offset: -1.741 ms
Remote clock offset: -0.124 ms

Below is generated by plot.py at 2018-11-30 09:56:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 864.28 Mbit/s
95th percentile per-packet one-way delay: 4.213 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 494.29 Mbit/s
95th percentile per-packet one-way delay: 4.464 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 407.06 Mbit/s
95th percentile per-packet one-way delay: 2.494 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 297.12 Mbit/s
95th percentile per-packet one-way delay: 2.561 ms
Loss rate: 0.08%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-11-30 07:28:38

End at: 2018-11-30 07:29:08

Local clock offset: -0.027 ms

Remote clock offset: -0.22 ms

Below is generated by plot.py at 2018-11-30 09:56:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 596.03 Mbit/s

95th percentile per-packet one-way delay: 5.847 ms

Loss rate: 10.59%

-- Flow 1:

Average throughput: 438.36 Mbit/s

95th percentile per-packet one-way delay: 6.632 ms

Loss rate: 9.89%

-- Flow 2:

Average throughput: 208.22 Mbit/s

95th percentile per-packet one-way delay: 3.417 ms

Loss rate: 13.22%

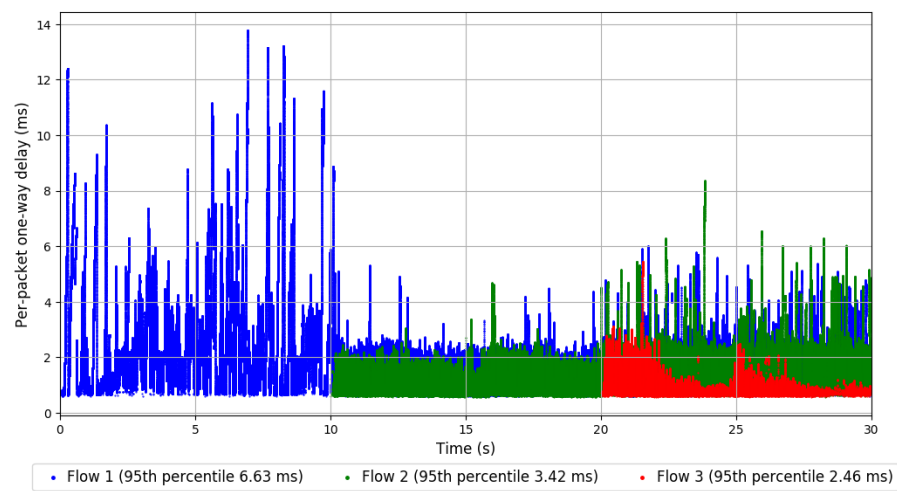
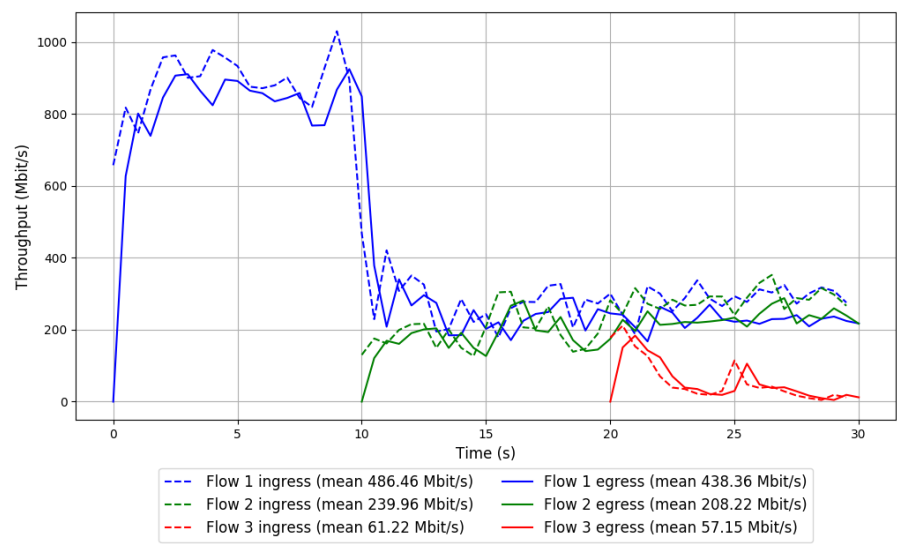
-- Flow 3:

Average throughput: 57.15 Mbit/s

95th percentile per-packet one-way delay: 2.460 ms

Loss rate: 6.65%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-11-30 07:55:49

End at: 2018-11-30 07:56:19

Local clock offset: 2.529 ms

Remote clock offset: 0.436 ms

Below is generated by plot.py at 2018-11-30 09:57:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 714.03 Mbit/s

95th percentile per-packet one-way delay: 8.692 ms

Loss rate: 12.06%

-- Flow 1:

Average throughput: 458.65 Mbit/s

95th percentile per-packet one-way delay: 10.224 ms

Loss rate: 8.96%

-- Flow 2:

Average throughput: 259.58 Mbit/s

95th percentile per-packet one-way delay: 4.201 ms

Loss rate: 16.75%

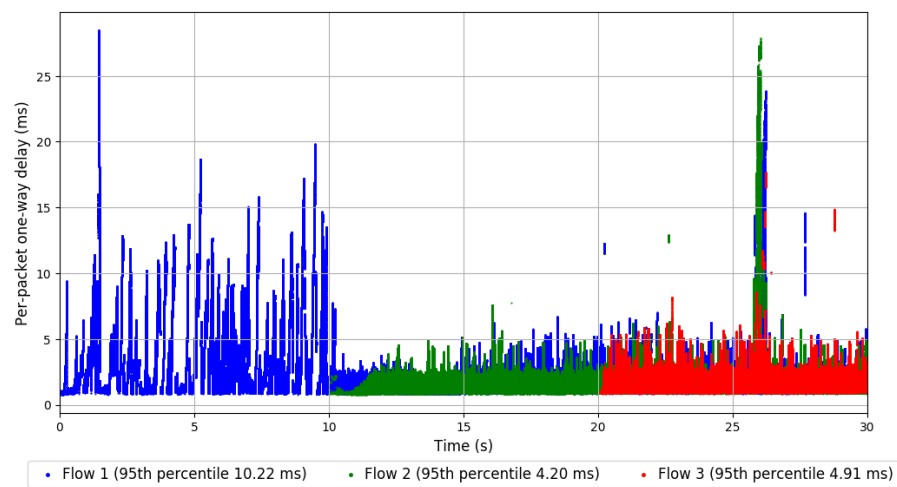
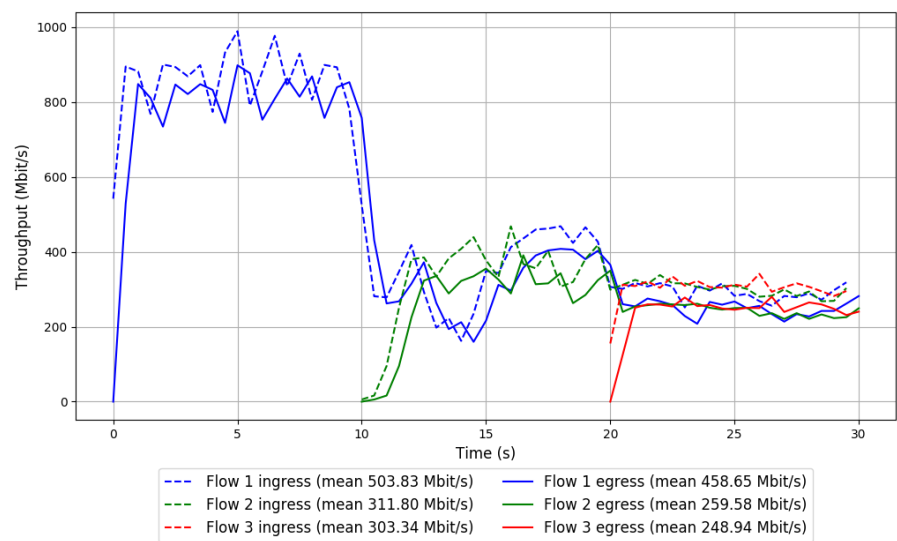
-- Flow 3:

Average throughput: 248.94 Mbit/s

95th percentile per-packet one-way delay: 4.913 ms

Loss rate: 17.93%

Run 2: Report of FillP — Data Link

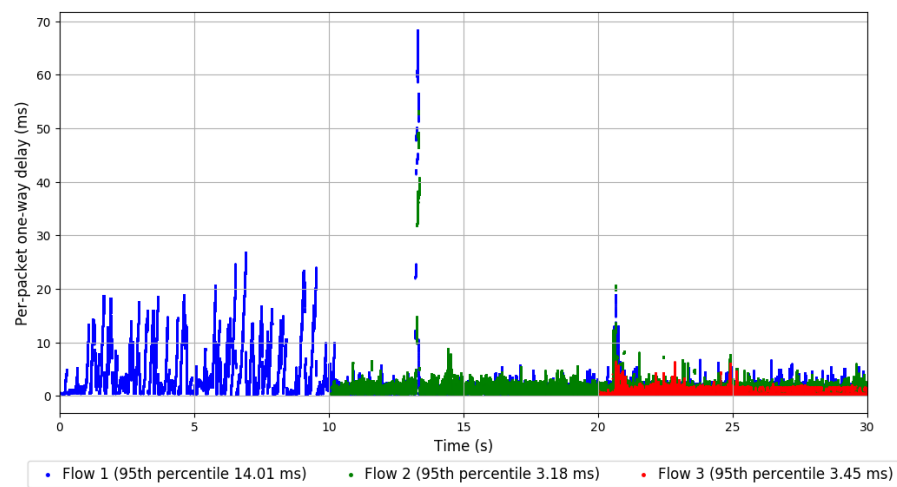
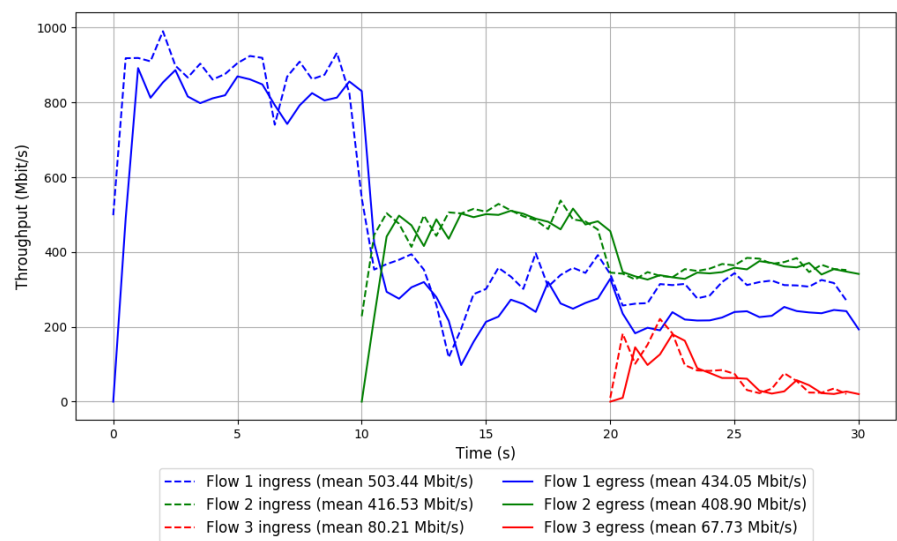


Run 3: Statistics of FillP

Start at: 2018-11-30 08:22:54
End at: 2018-11-30 08:23:24
Local clock offset: -0.497 ms
Remote clock offset: 0.079 ms

Below is generated by plot.py at 2018-11-30 09:57:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 728.44 Mbit/s
95th percentile per-packet one-way delay: 12.220 ms
Loss rate: 9.74%
-- Flow 1:
Average throughput: 434.05 Mbit/s
95th percentile per-packet one-way delay: 14.010 ms
Loss rate: 13.78%
-- Flow 2:
Average throughput: 408.90 Mbit/s
95th percentile per-packet one-way delay: 3.176 ms
Loss rate: 1.83%
-- Flow 3:
Average throughput: 67.73 Mbit/s
95th percentile per-packet one-way delay: 3.450 ms
Loss rate: 15.56%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-11-30 08:49:57

End at: 2018-11-30 08:50:27

Local clock offset: -4.714 ms

Remote clock offset: 0.234 ms

Below is generated by plot.py at 2018-11-30 09:57:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 580.47 Mbit/s

95th percentile per-packet one-way delay: 8.699 ms

Loss rate: 9.45%

-- Flow 1:

Average throughput: 468.32 Mbit/s

95th percentile per-packet one-way delay: 9.205 ms

Loss rate: 8.29%

-- Flow 2:

Average throughput: 117.91 Mbit/s

95th percentile per-packet one-way delay: 3.385 ms

Loss rate: 13.61%

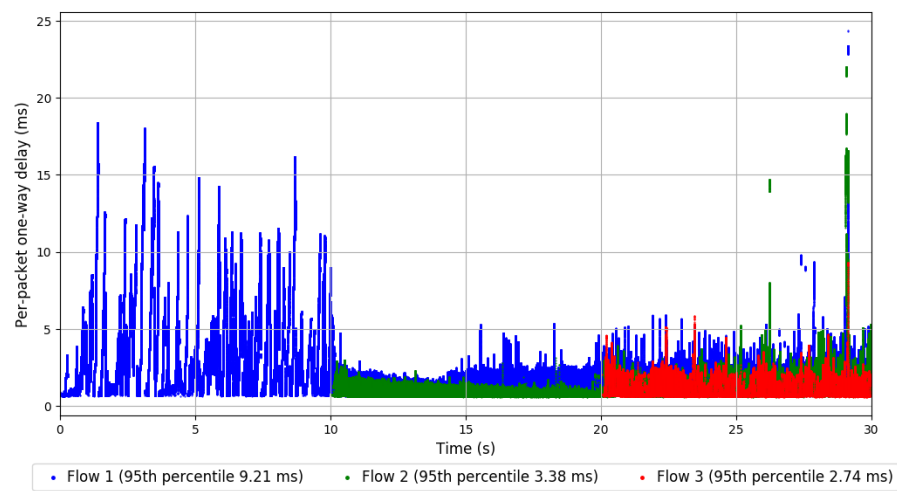
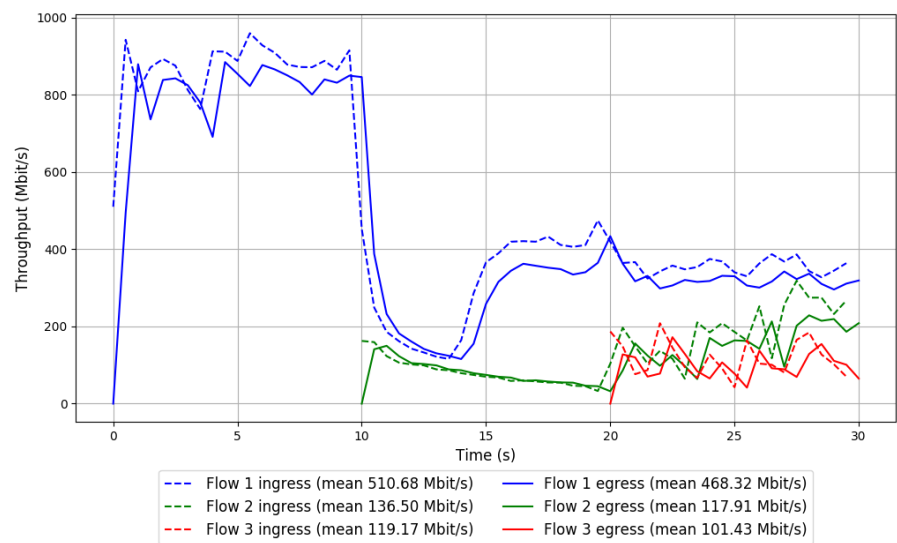
-- Flow 3:

Average throughput: 101.43 Mbit/s

95th percentile per-packet one-way delay: 2.744 ms

Loss rate: 14.89%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-11-30 09:17:02

End at: 2018-11-30 09:17:32

Local clock offset: -4.776 ms

Remote clock offset: 0.187 ms

Below is generated by plot.py at 2018-11-30 09:57:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 689.34 Mbit/s

95th percentile per-packet one-way delay: 14.566 ms

Loss rate: 12.20%

-- Flow 1:

Average throughput: 472.74 Mbit/s

95th percentile per-packet one-way delay: 16.463 ms

Loss rate: 15.67%

-- Flow 2:

Average throughput: 300.59 Mbit/s

95th percentile per-packet one-way delay: 3.705 ms

Loss rate: 2.32%

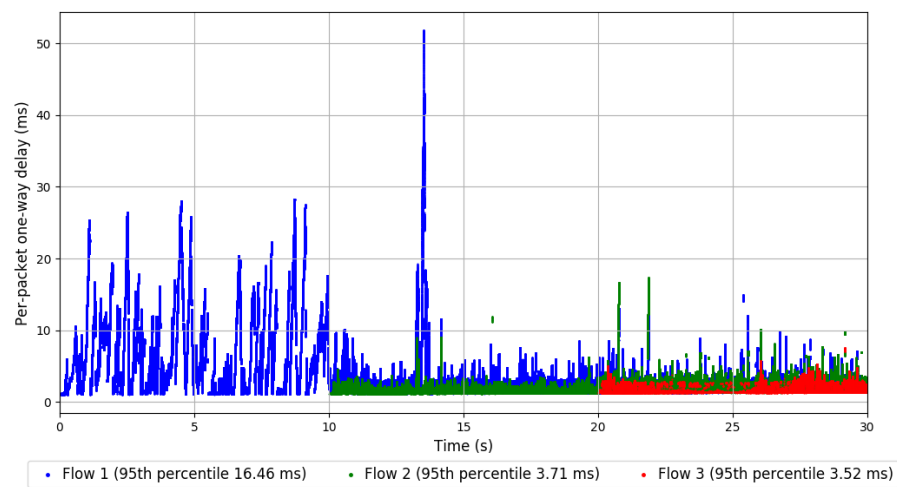
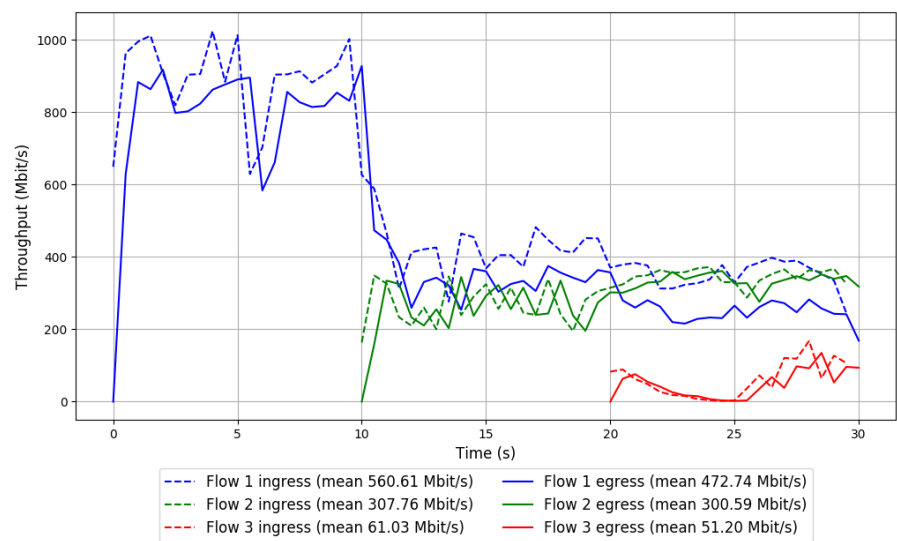
-- Flow 3:

Average throughput: 51.20 Mbit/s

95th percentile per-packet one-way delay: 3.523 ms

Loss rate: 16.11%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-11-30 07:24:33

End at: 2018-11-30 07:25:03

Local clock offset: -0.048 ms

Remote clock offset: -0.14 ms

Below is generated by plot.py at 2018-11-30 09:57:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 429.79 Mbit/s

95th percentile per-packet one-way delay: 4.662 ms

Loss rate: 4.18%

-- Flow 1:

Average throughput: 351.55 Mbit/s

95th percentile per-packet one-way delay: 4.894 ms

Loss rate: 3.92%

-- Flow 2:

Average throughput: 101.97 Mbit/s

95th percentile per-packet one-way delay: 2.286 ms

Loss rate: 5.47%

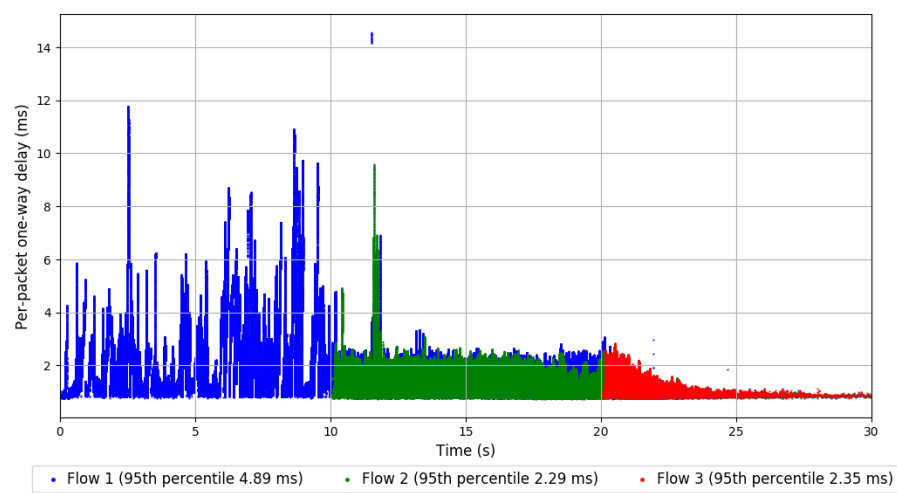
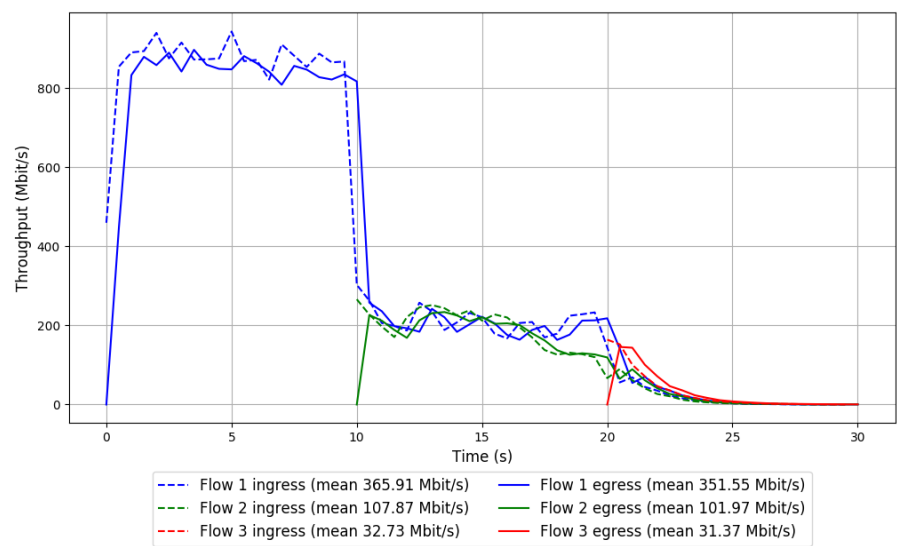
-- Flow 3:

Average throughput: 31.37 Mbit/s

95th percentile per-packet one-way delay: 2.348 ms

Loss rate: 4.15%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-11-30 07:51:44

End at: 2018-11-30 07:52:14

Local clock offset: 1.889 ms

Remote clock offset: 0.287 ms

Below is generated by plot.py at 2018-11-30 09:57:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 324.93 Mbit/s

95th percentile per-packet one-way delay: 4.847 ms

Loss rate: 3.29%

-- Flow 1:

Average throughput: 285.40 Mbit/s

95th percentile per-packet one-way delay: 5.014 ms

Loss rate: 3.25%

-- Flow 2:

Average throughput: 42.68 Mbit/s

95th percentile per-packet one-way delay: 2.137 ms

Loss rate: 3.66%

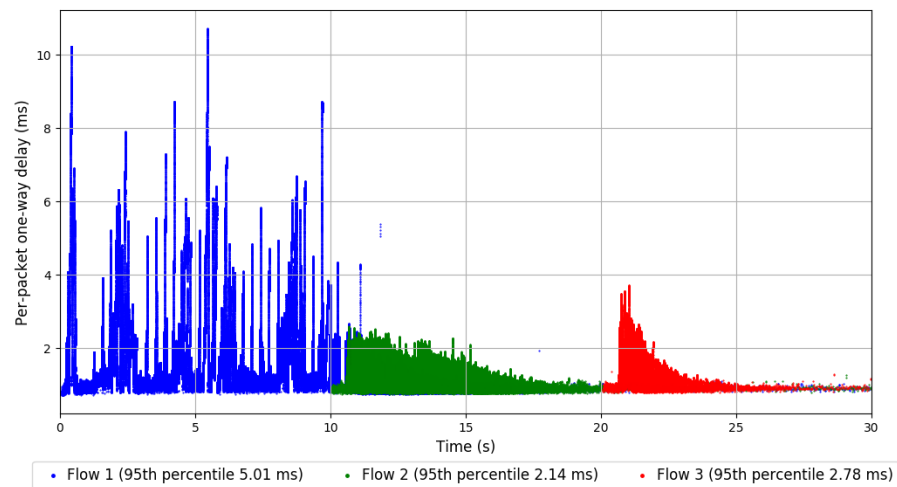
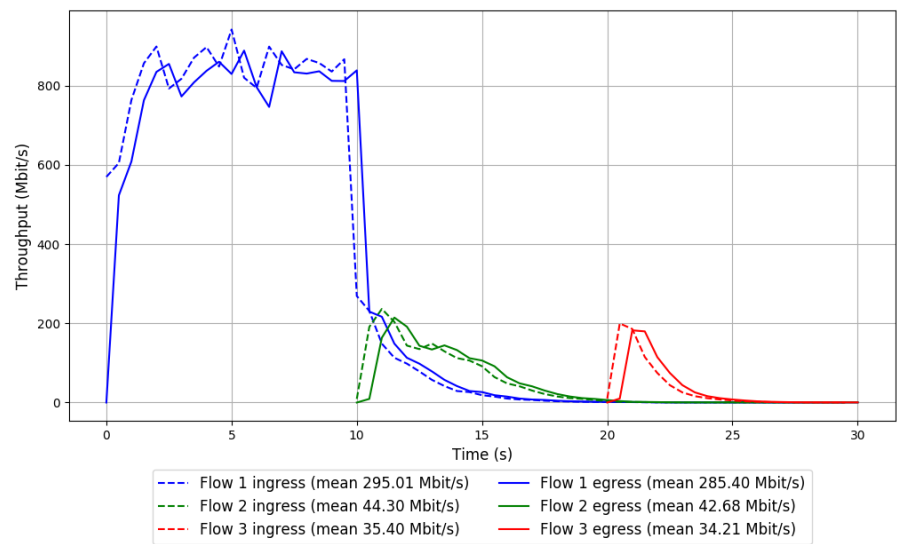
-- Flow 3:

Average throughput: 34.21 Mbit/s

95th percentile per-packet one-way delay: 2.782 ms

Loss rate: 3.36%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-11-30 08:18:45

End at: 2018-11-30 08:19:15

Local clock offset: 1.491 ms

Remote clock offset: 0.064 ms

Below is generated by plot.py at 2018-11-30 10:00:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 401.70 Mbit/s

95th percentile per-packet one-way delay: 3.494 ms

Loss rate: 2.87%

-- Flow 1:

Average throughput: 330.52 Mbit/s

95th percentile per-packet one-way delay: 3.634 ms

Loss rate: 3.05%

-- Flow 2:

Average throughput: 90.07 Mbit/s

95th percentile per-packet one-way delay: 1.628 ms

Loss rate: 1.55%

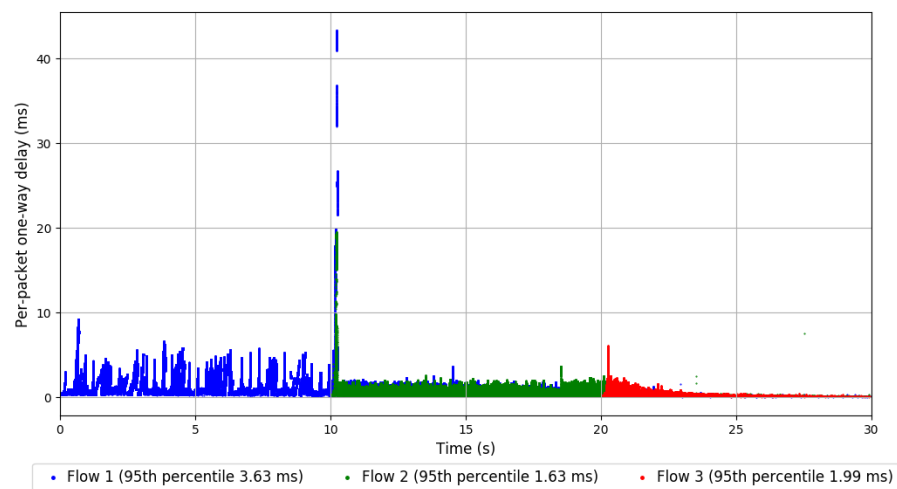
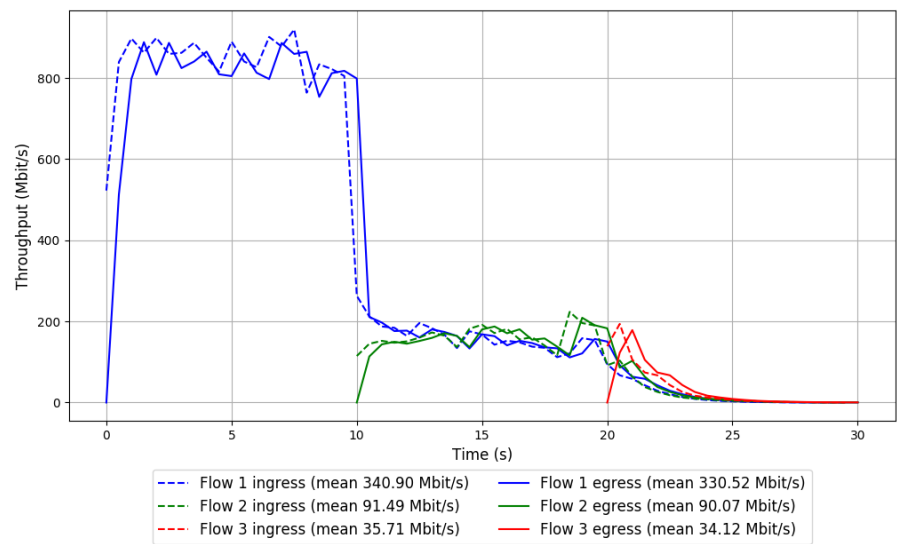
-- Flow 3:

Average throughput: 34.12 Mbit/s

95th percentile per-packet one-way delay: 1.989 ms

Loss rate: 4.48%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-11-30 08:45:49

End at: 2018-11-30 08:46:19

Local clock offset: -4.397 ms

Remote clock offset: 0.243 ms

Below is generated by plot.py at 2018-11-30 10:00:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 369.14 Mbit/s

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

Loss rate: 2.96%

-- Flow 1:

Average throughput: 314.17 Mbit/s

95th percentile per-packet one-way delay: 4.966 ms

Loss rate: 2.92%

-- Flow 2:

Average throughput: 62.42 Mbit/s

95th percentile per-packet one-way delay: 1.810 ms

Loss rate: 1.20%

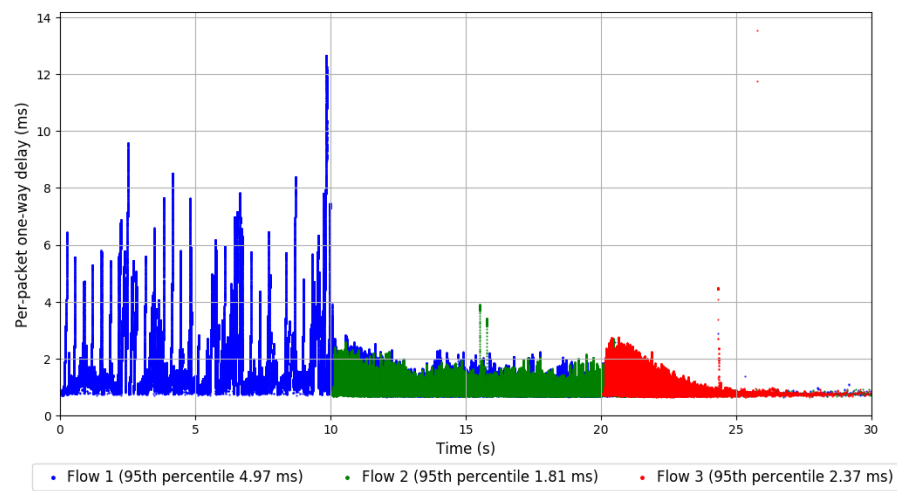
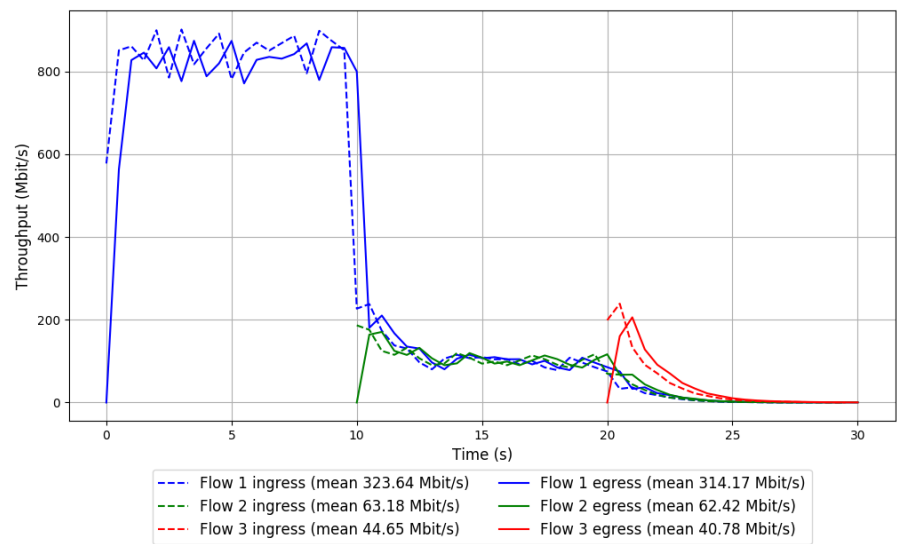
-- Flow 3:

Average throughput: 40.78 Mbit/s

95th percentile per-packet one-way delay: 2.374 ms

Loss rate: 8.66%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-11-30 09:12:57

End at: 2018-11-30 09:13:27

Local clock offset: -6.213 ms

Remote clock offset: 0.456 ms

Below is generated by plot.py at 2018-11-30 10:00:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 326.53 Mbit/s

95th percentile per-packet one-way delay: 4.464 ms

Loss rate: 2.58%

-- Flow 1:

Average throughput: 295.45 Mbit/s

95th percentile per-packet one-way delay: 4.625 ms

Loss rate: 2.45%

-- Flow 2:

Average throughput: 32.61 Mbit/s

95th percentile per-packet one-way delay: 1.971 ms

Loss rate: 1.76%

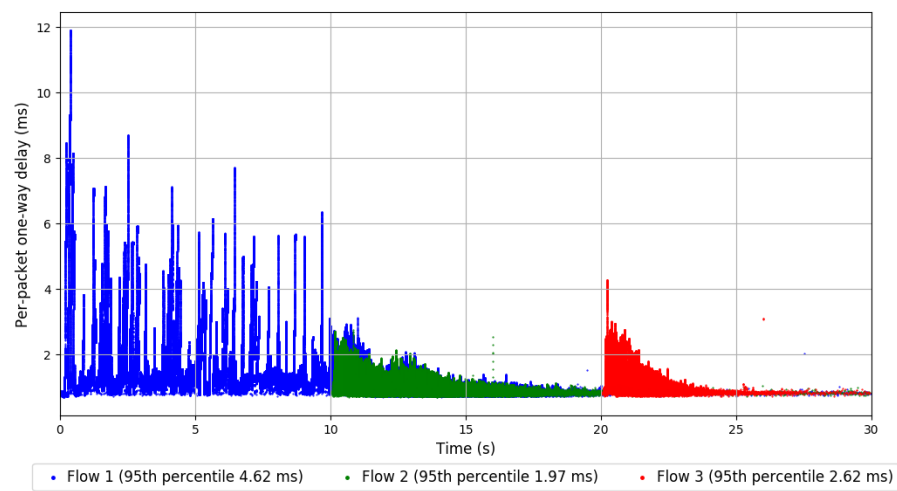
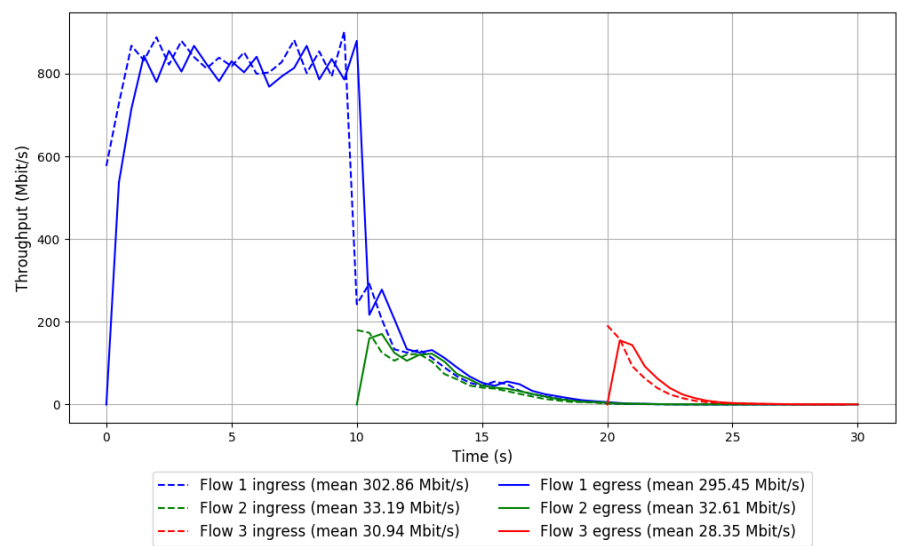
-- Flow 3:

Average throughput: 28.35 Mbit/s

95th percentile per-packet one-way delay: 2.620 ms

Loss rate: 8.37%

Run 5: Report of FillP-Sheep — Data Link

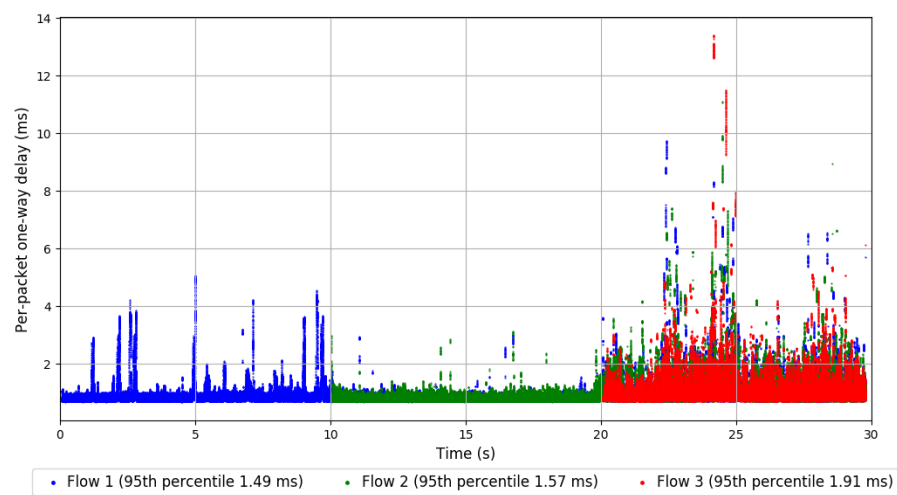
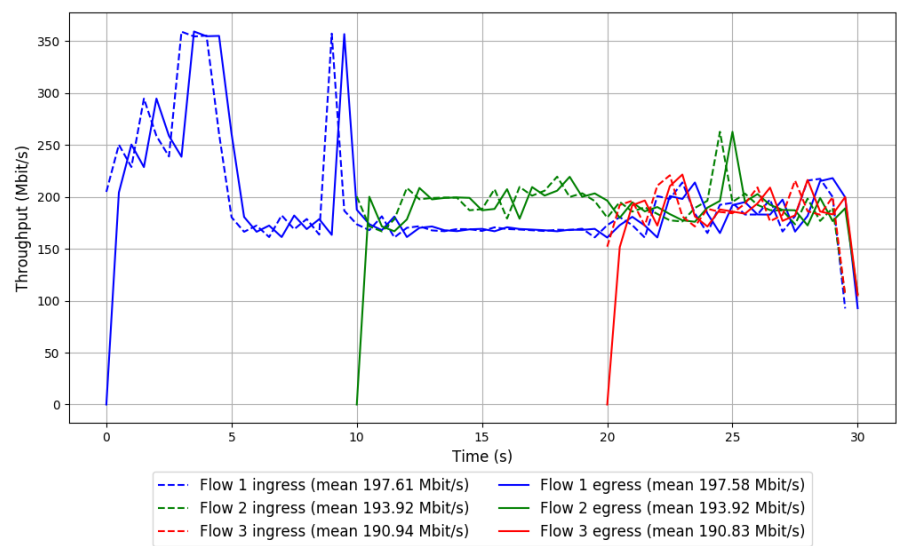


Run 1: Statistics of Indigo

Start at: 2018-11-30 07:14:21
End at: 2018-11-30 07:14:51
Local clock offset: -0.281 ms
Remote clock offset: -0.389 ms

Below is generated by plot.py at 2018-11-30 10:00:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 388.42 Mbit/s
95th percentile per-packet one-way delay: 1.612 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 197.58 Mbit/s
95th percentile per-packet one-way delay: 1.489 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 193.92 Mbit/s
95th percentile per-packet one-way delay: 1.567 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 190.83 Mbit/s
95th percentile per-packet one-way delay: 1.905 ms
Loss rate: 0.00%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-11-30 07:41:33

End at: 2018-11-30 07:42:03

Local clock offset: -0.019 ms

Remote clock offset: 0.153 ms

Below is generated by plot.py at 2018-11-30 10:01:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 379.77 Mbit/s

95th percentile per-packet one-way delay: 1.664 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 192.30 Mbit/s

95th percentile per-packet one-way delay: 1.404 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 190.18 Mbit/s

95th percentile per-packet one-way delay: 1.679 ms

Loss rate: 0.00%

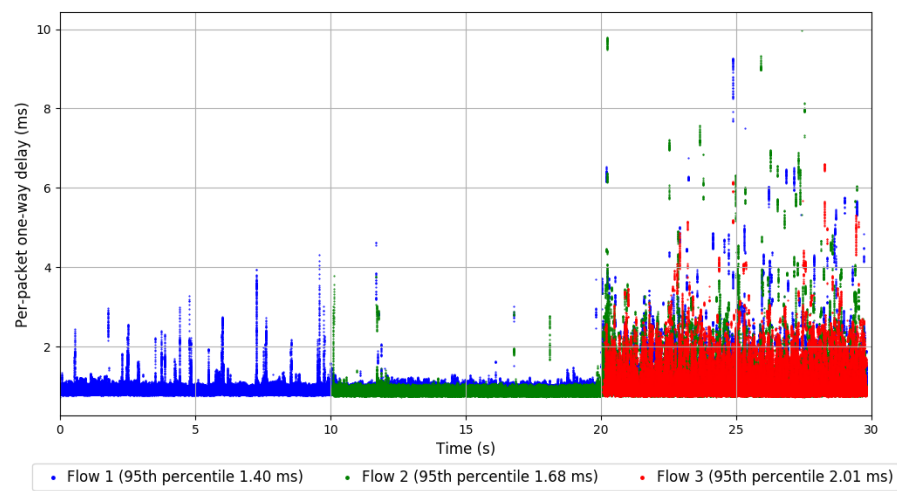
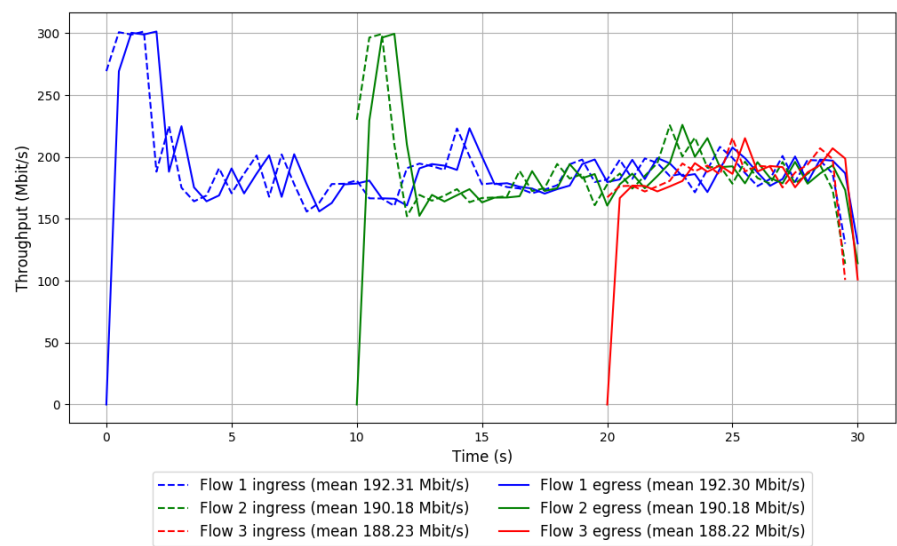
-- Flow 3:

Average throughput: 188.22 Mbit/s

95th percentile per-packet one-way delay: 2.011 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-11-30 08:08:48

End at: 2018-11-30 08:09:18

Local clock offset: 3.705 ms

Remote clock offset: 0.378 ms

Below is generated by plot.py at 2018-11-30 10:01:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 375.56 Mbit/s

95th percentile per-packet one-way delay: 1.853 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 193.93 Mbit/s

95th percentile per-packet one-way delay: 1.713 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 183.04 Mbit/s

95th percentile per-packet one-way delay: 1.882 ms

Loss rate: 0.00%

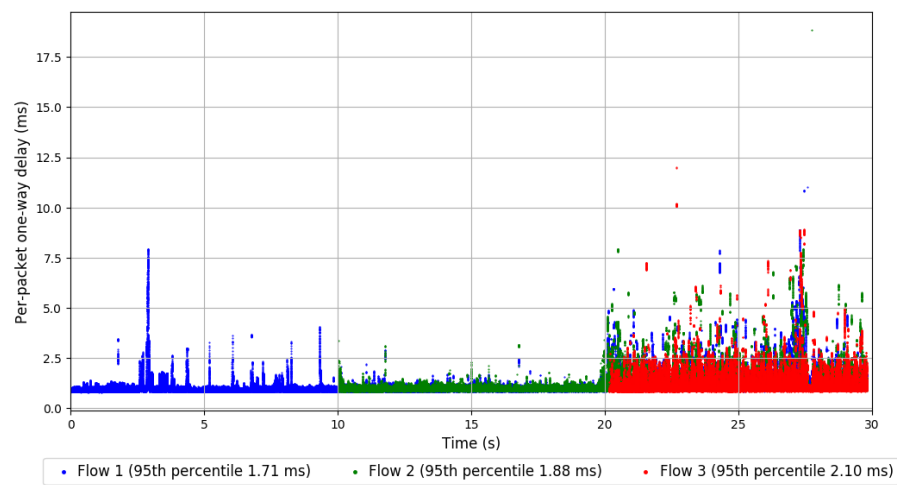
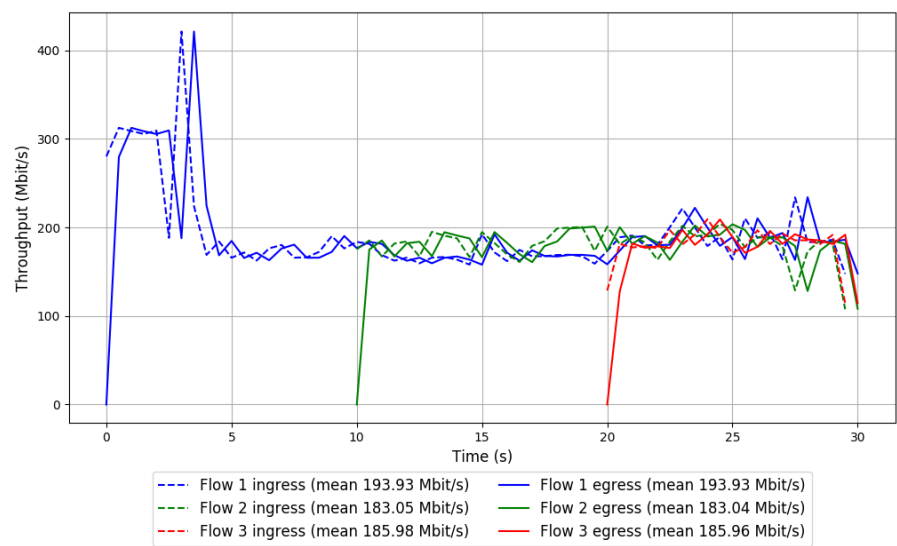
-- Flow 3:

Average throughput: 185.96 Mbit/s

95th percentile per-packet one-way delay: 2.102 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-11-30 08:35:51

End at: 2018-11-30 08:36:21

Local clock offset: -3.403 ms

Remote clock offset: 0.159 ms

Below is generated by plot.py at 2018-11-30 10:01:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 375.08 Mbit/s

95th percentile per-packet one-way delay: 1.584 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 193.21 Mbit/s

95th percentile per-packet one-way delay: 1.377 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 186.52 Mbit/s

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

Loss rate: 0.00%

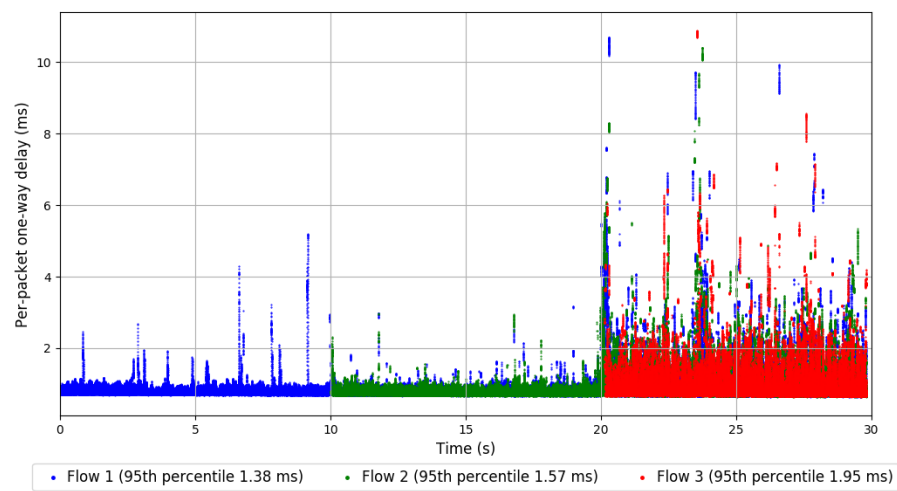
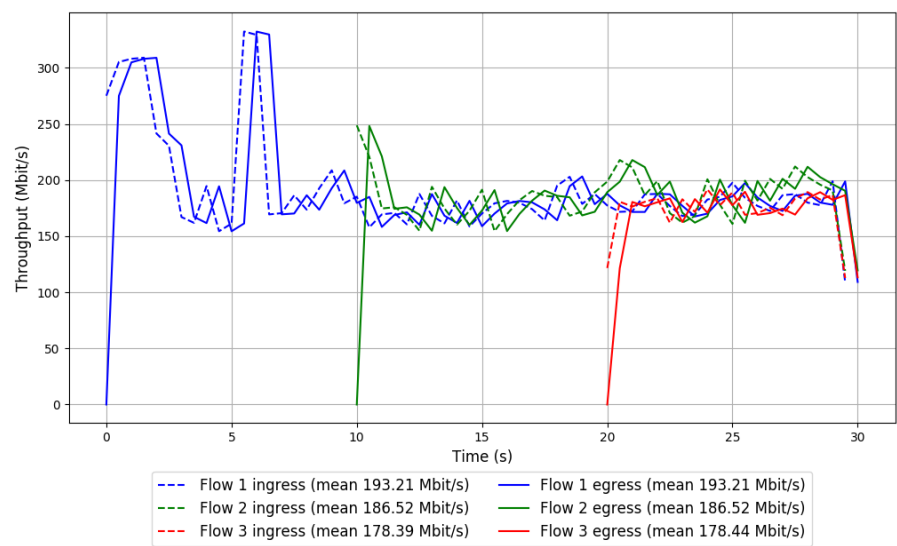
-- Flow 3:

Average throughput: 178.44 Mbit/s

95th percentile per-packet one-way delay: 1.946 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-11-30 09:02:47

End at: 2018-11-30 09:03:17

Local clock offset: -5.592 ms

Remote clock offset: 0.294 ms

Below is generated by plot.py at 2018-11-30 10:02:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 382.89 Mbit/s

95th percentile per-packet one-way delay: 1.648 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 200.80 Mbit/s

95th percentile per-packet one-way delay: 1.443 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 186.98 Mbit/s

95th percentile per-packet one-way delay: 1.643 ms

Loss rate: 0.00%

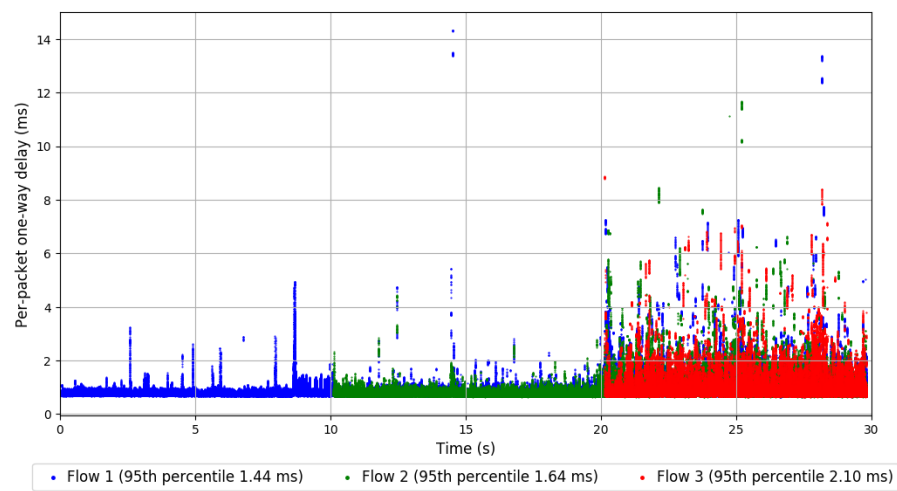
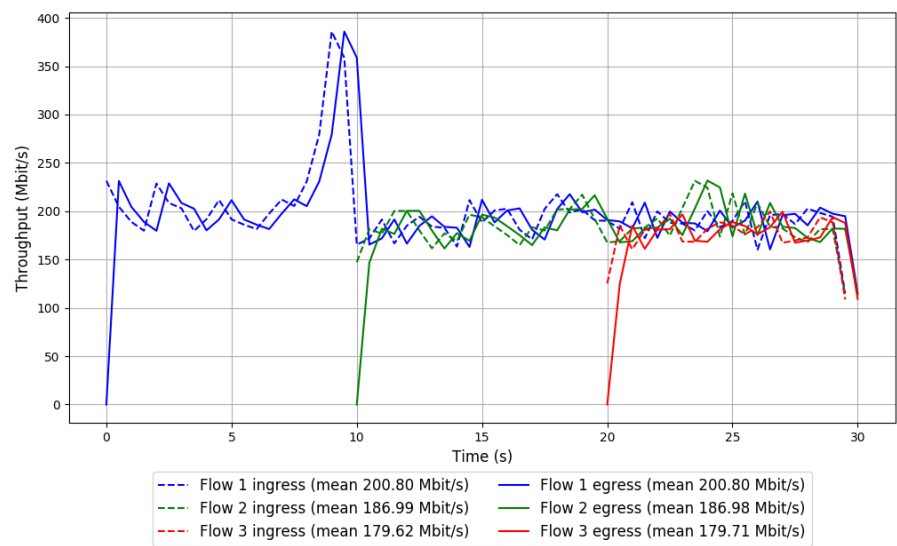
-- Flow 3:

Average throughput: 179.71 Mbit/s

95th percentile per-packet one-way delay: 2.098 ms

Loss rate: 0.01%

Run 5: Report of Indigo — Data Link

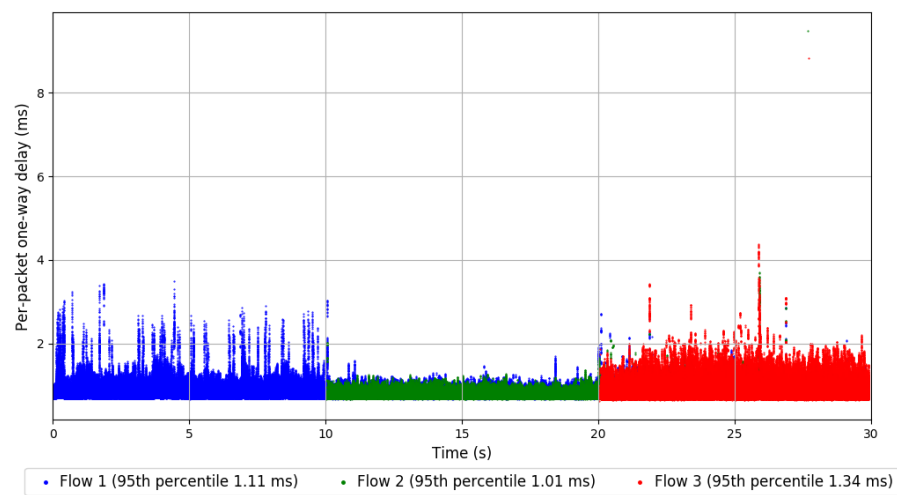
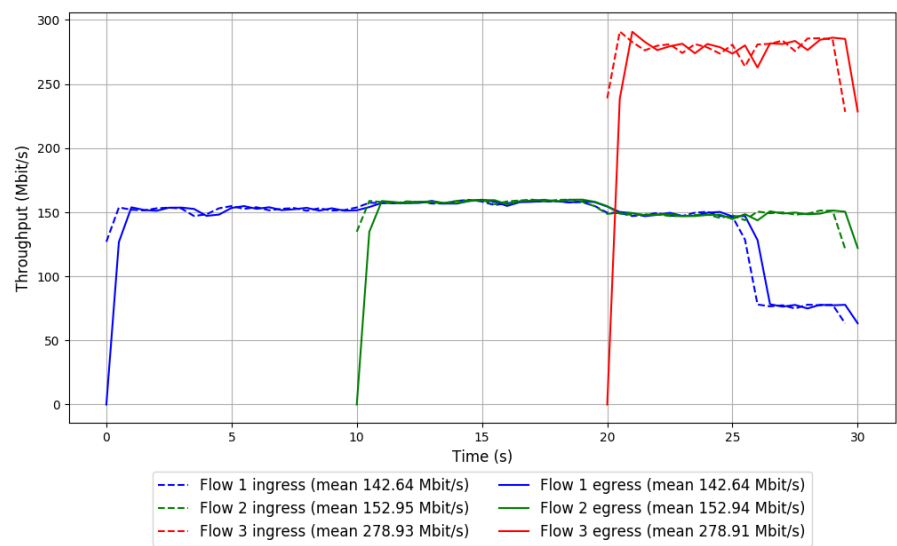


Run 1: Statistics of Indigo-96d2da3

Start at: 2018-11-30 07:25:59
End at: 2018-11-30 07:26:29
Local clock offset: -0.031 ms
Remote clock offset: -0.257 ms

Below is generated by plot.py at 2018-11-30 10:04:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 336.43 Mbit/s
95th percentile per-packet one-way delay: 1.154 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 142.64 Mbit/s
95th percentile per-packet one-way delay: 1.107 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 152.94 Mbit/s
95th percentile per-packet one-way delay: 1.014 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 278.91 Mbit/s
95th percentile per-packet one-way delay: 1.337 ms
Loss rate: 0.01%

Run 1: Report of Indigo-96d2da3 — Data Link



Run 2: Statistics of Indigo-96d2da3

Start at: 2018-11-30 07:53:07

End at: 2018-11-30 07:53:37

Local clock offset: 2.11 ms

Remote clock offset: 0.311 ms

Below is generated by plot.py at 2018-11-30 10:05:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 437.01 Mbit/s

95th percentile per-packet one-way delay: 1.368 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 285.79 Mbit/s

95th percentile per-packet one-way delay: 1.440 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 153.31 Mbit/s

95th percentile per-packet one-way delay: 1.236 ms

Loss rate: 0.00%

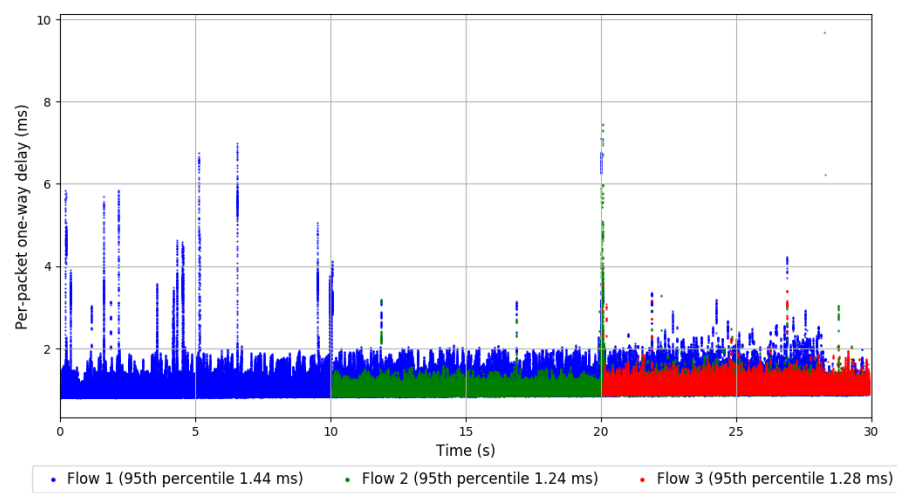
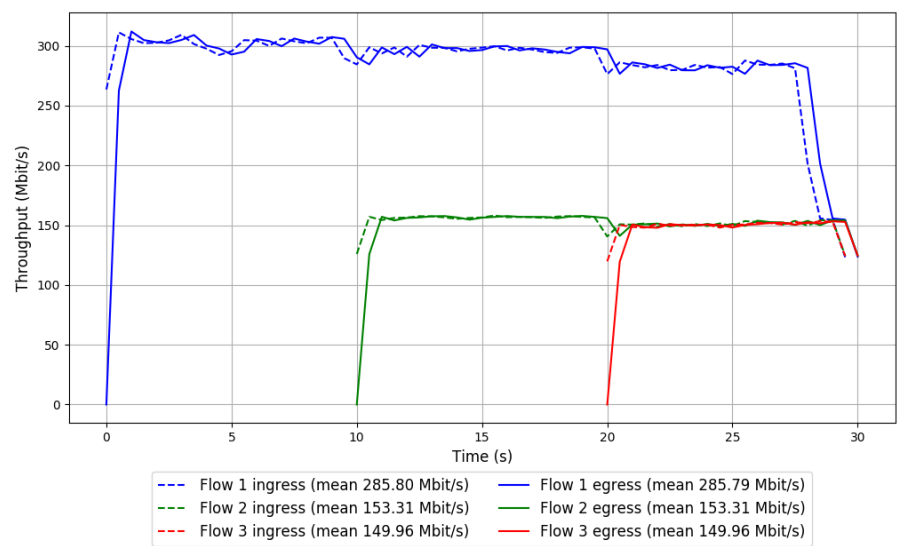
-- Flow 3:

Average throughput: 149.96 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of Indigo-96d2da3 — Data Link



Run 3: Statistics of Indigo-96d2da3

Start at: 2018-11-30 08:20:10

End at: 2018-11-30 08:20:40

Local clock offset: 0.685 ms

Remote clock offset: 0.151 ms

Below is generated by plot.py at 2018-11-30 10:05:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 473.51 Mbit/s

95th percentile per-packet one-way delay: 1.057 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 286.61 Mbit/s

95th percentile per-packet one-way delay: 1.071 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 149.13 Mbit/s

95th percentile per-packet one-way delay: 0.822 ms

Loss rate: 0.00%

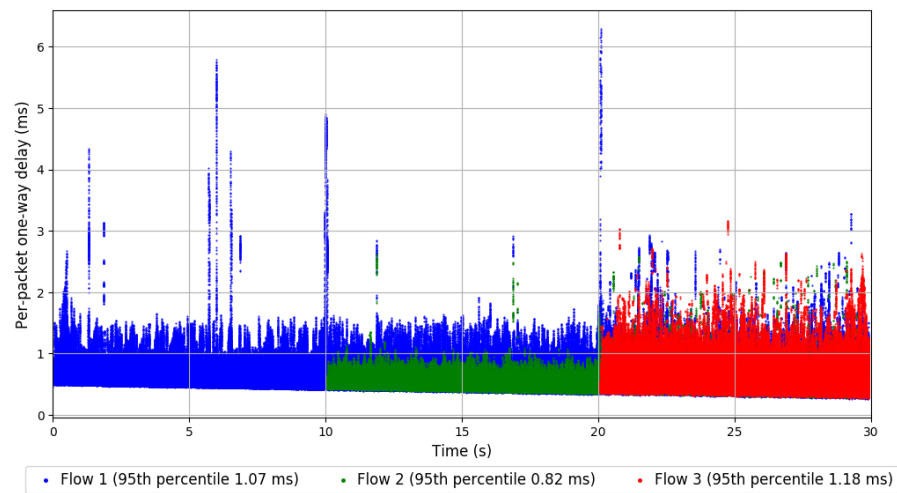
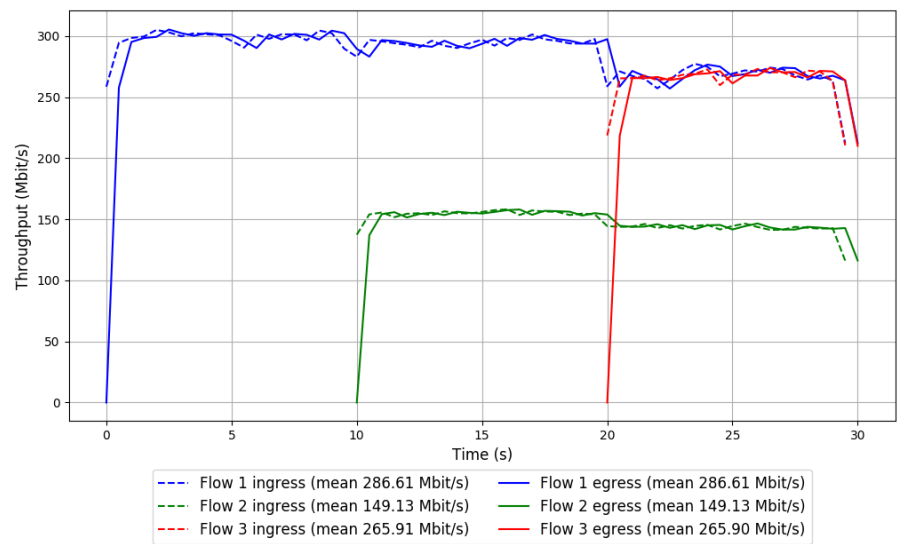
-- Flow 3:

Average throughput: 265.90 Mbit/s

95th percentile per-packet one-way delay: 1.184 ms

Loss rate: 0.01%

Run 3: Report of Indigo-96d2da3 — Data Link



Run 4: Statistics of Indigo-96d2da3

Start at: 2018-11-30 08:47:13

End at: 2018-11-30 08:47:43

Local clock offset: -4.5 ms

Remote clock offset: 0.258 ms

Below is generated by plot.py at 2018-11-30 10:06:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 475.29 Mbit/s

95th percentile per-packet one-way delay: 1.429 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 289.06 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 149.53 Mbit/s

95th percentile per-packet one-way delay: 1.233 ms

Loss rate: 0.00%

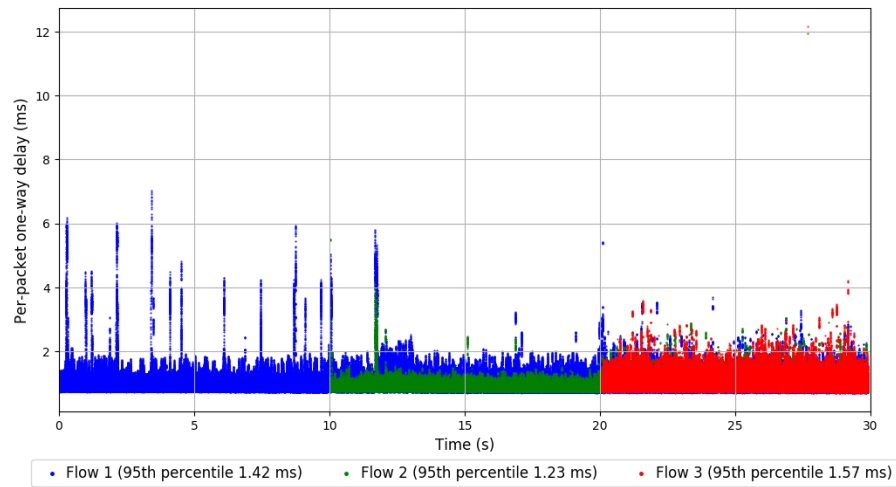
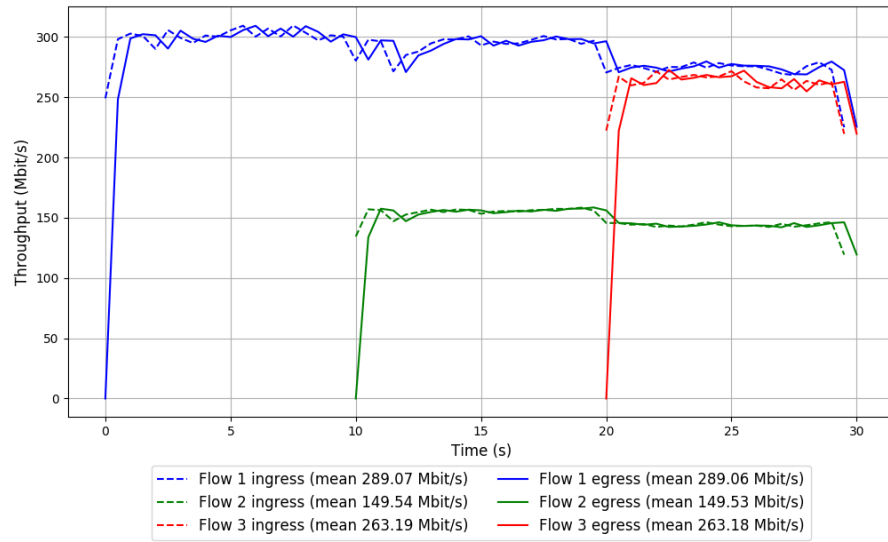
-- Flow 3:

Average throughput: 263.18 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of Indigo-96d2da3 — Data Link



Run 5: Statistics of Indigo-96d2da3

Start at: 2018-11-30 09:14:19

End at: 2018-11-30 09:14:49

Local clock offset: -6.29 ms

Remote clock offset: 0.231 ms

Below is generated by plot.py at 2018-11-30 10:06:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 433.67 Mbit/s

95th percentile per-packet one-way delay: 1.551 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 290.76 Mbit/s

95th percentile per-packet one-way delay: 1.528 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 79.29 Mbit/s

95th percentile per-packet one-way delay: 1.296 ms

Loss rate: 0.00%

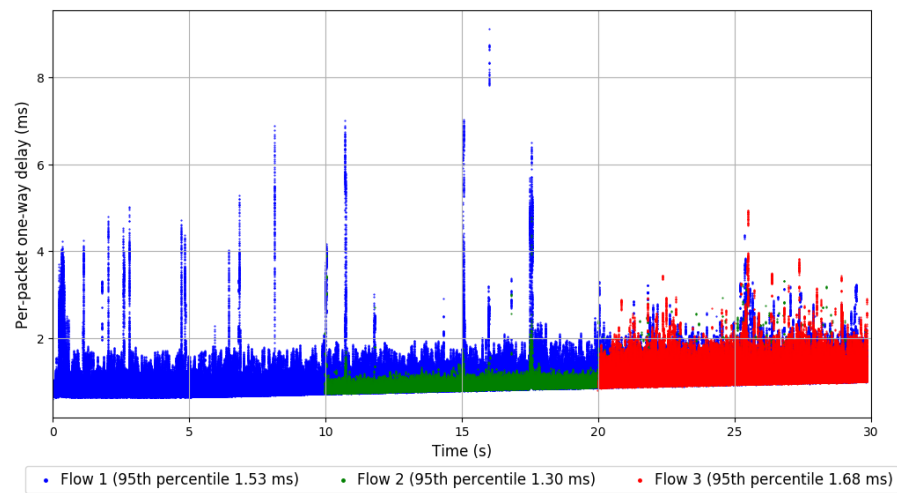
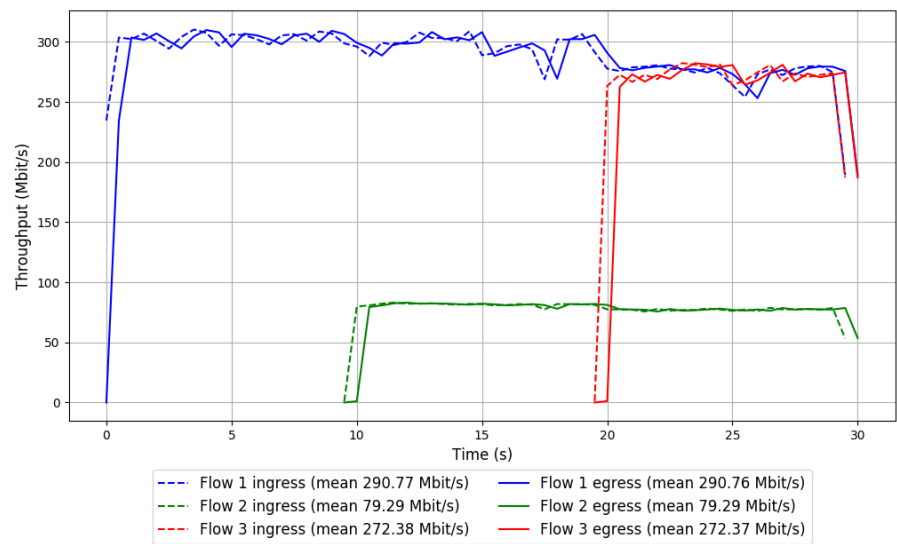
-- Flow 3:

Average throughput: 272.37 Mbit/s

95th percentile per-packet one-way delay: 1.681 ms

Loss rate: 0.00%

Run 5: Report of Indigo-96d2da3 — Data Link

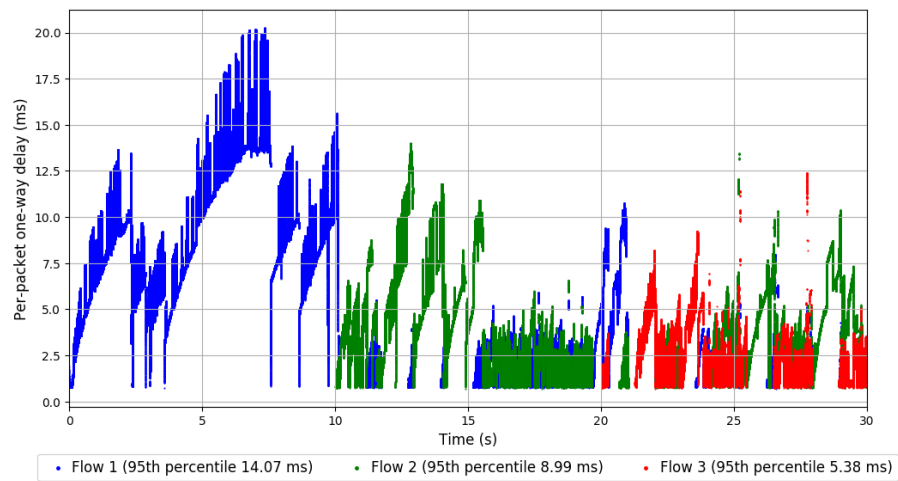
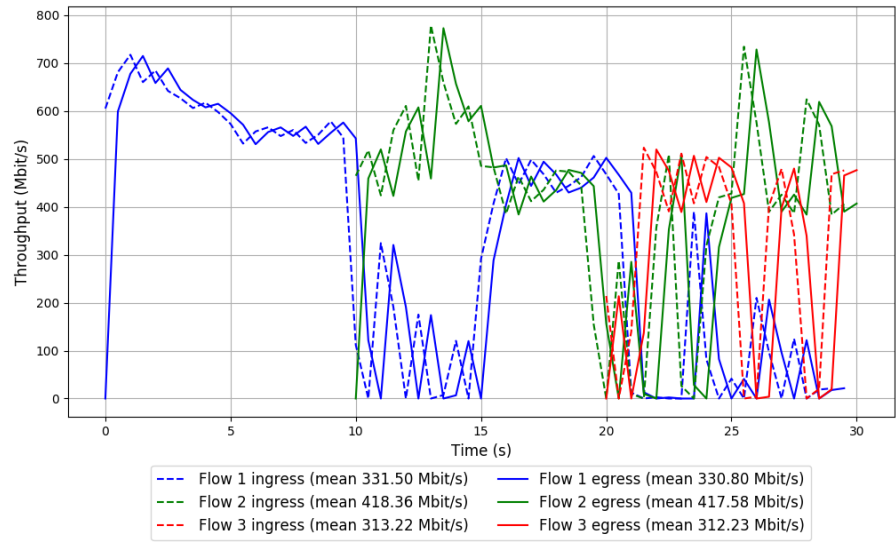


```
Run 1: Statistics of LEDBAT

Start at: 2018-11-30 07:37:04
End at: 2018-11-30 07:37:34
Local clock offset: -0.007 ms
Remote clock offset: 0.057 ms

# Below is generated by plot.py at 2018-11-30 10:09:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 702.36 Mbit/s
95th percentile per-packet one-way delay: 13.112 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 330.80 Mbit/s
95th percentile per-packet one-way delay: 14.068 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 417.58 Mbit/s
95th percentile per-packet one-way delay: 8.993 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 312.23 Mbit/s
95th percentile per-packet one-way delay: 5.383 ms
Loss rate: 0.30%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-11-30 08:04:19

End at: 2018-11-30 08:04:49

Local clock offset: 3.381 ms

Remote clock offset: 0.597 ms

Below is generated by plot.py at 2018-11-30 10:09:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 654.20 Mbit/s

95th percentile per-packet one-way delay: 15.267 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 362.53 Mbit/s

95th percentile per-packet one-way delay: 16.365 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 370.69 Mbit/s

95th percentile per-packet one-way delay: 8.895 ms

Loss rate: 0.20%

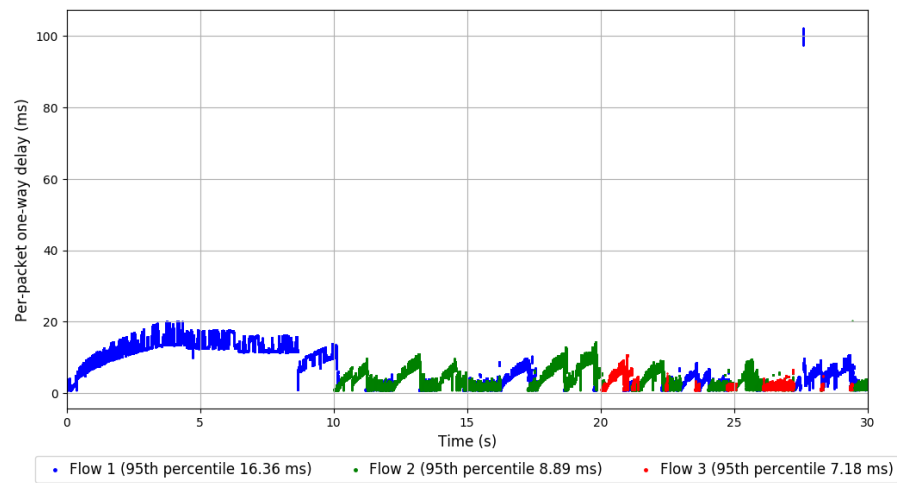
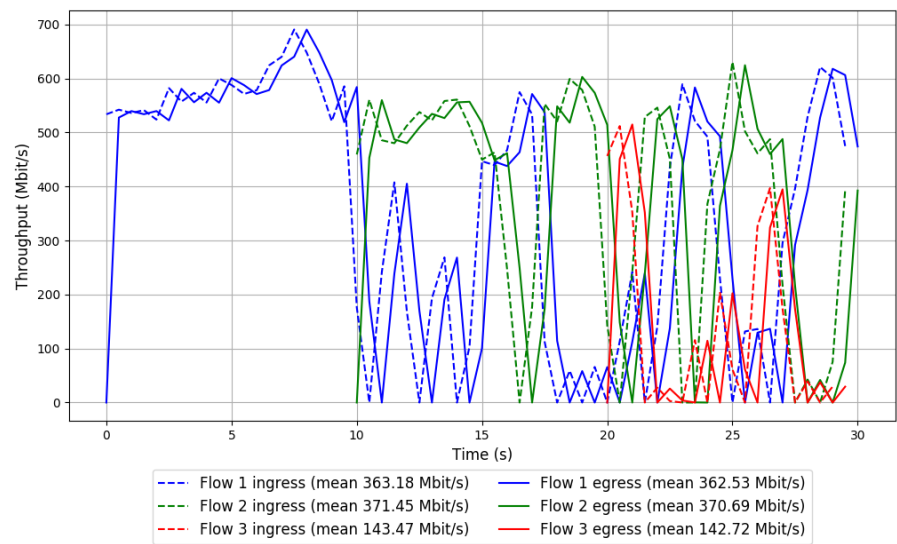
-- Flow 3:

Average throughput: 142.72 Mbit/s

95th percentile per-packet one-way delay: 7.183 ms

Loss rate: 0.52%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-11-30 08:31:22

End at: 2018-11-30 08:31:52

Local clock offset: -2.691 ms

Remote clock offset: 0.044 ms

Below is generated by plot.py at 2018-11-30 10:09:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 654.75 Mbit/s

95th percentile per-packet one-way delay: 13.485 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 335.50 Mbit/s

95th percentile per-packet one-way delay: 15.836 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 401.30 Mbit/s

95th percentile per-packet one-way delay: 8.585 ms

Loss rate: 0.25%

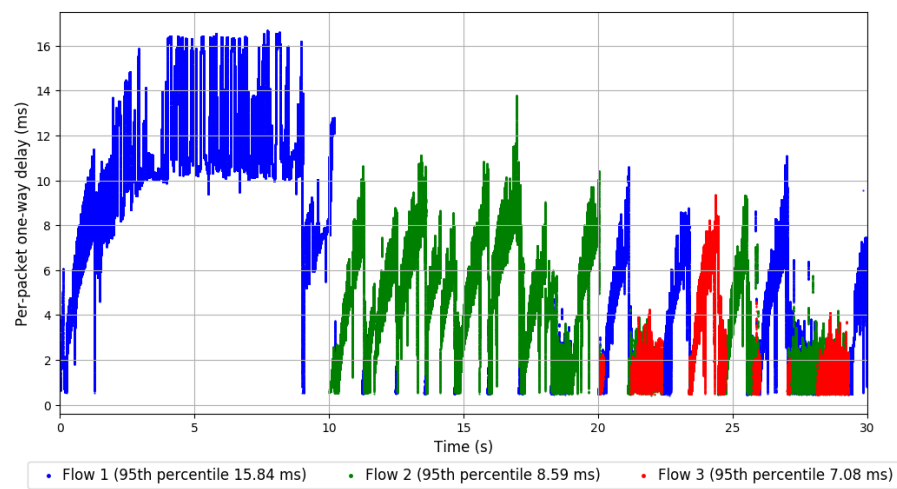
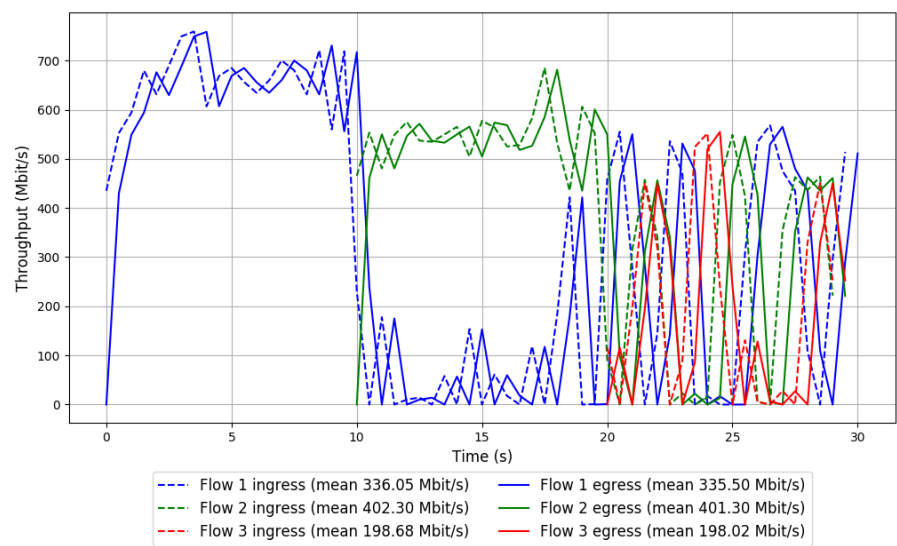
-- Flow 3:

Average throughput: 198.02 Mbit/s

95th percentile per-packet one-way delay: 7.077 ms

Loss rate: 0.33%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-11-30 08:58:18

End at: 2018-11-30 08:58:48

Local clock offset: -5.307 ms

Remote clock offset: 0.348 ms

Below is generated by plot.py at 2018-11-30 10:12:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 660.53 Mbit/s

95th percentile per-packet one-way delay: 14.170 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 385.72 Mbit/s

95th percentile per-packet one-way delay: 15.688 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 235.14 Mbit/s

95th percentile per-packet one-way delay: 7.677 ms

Loss rate: 0.41%

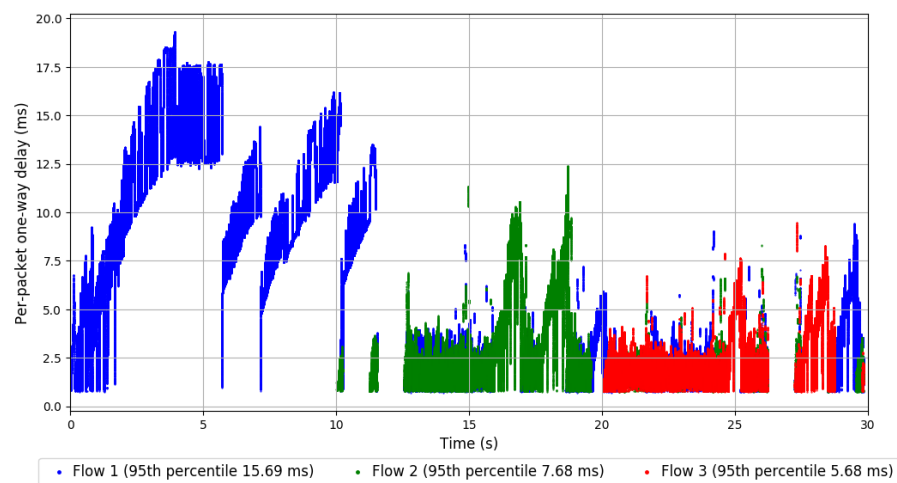
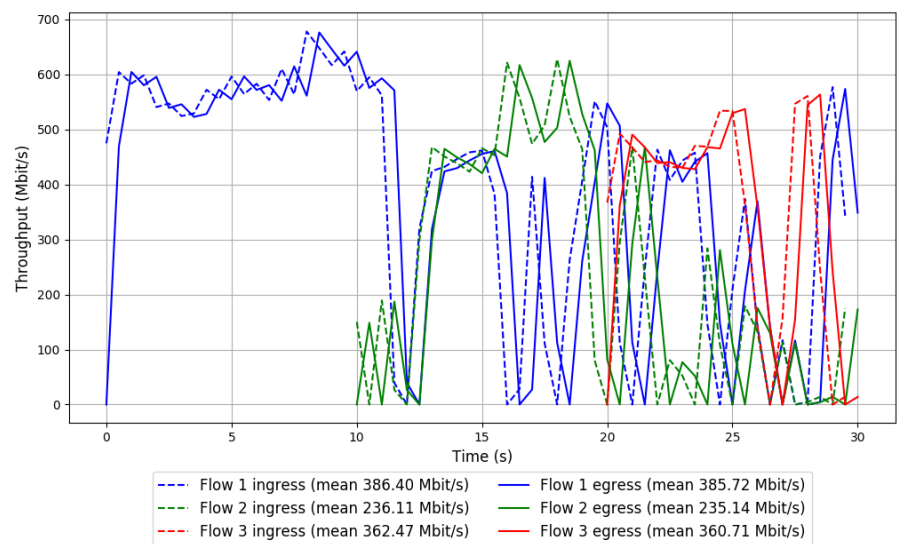
-- Flow 3:

Average throughput: 360.71 Mbit/s

95th percentile per-packet one-way delay: 5.679 ms

Loss rate: 0.48%

Run 4: Report of LEDBAT — Data Link

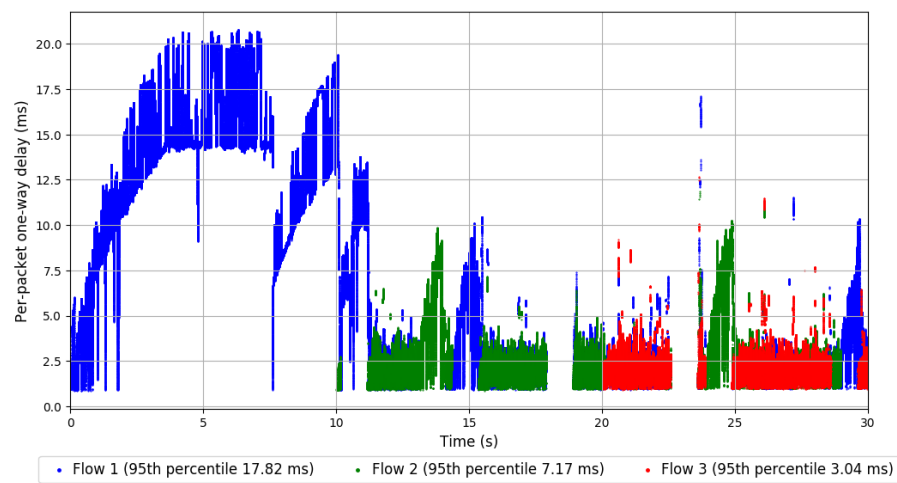
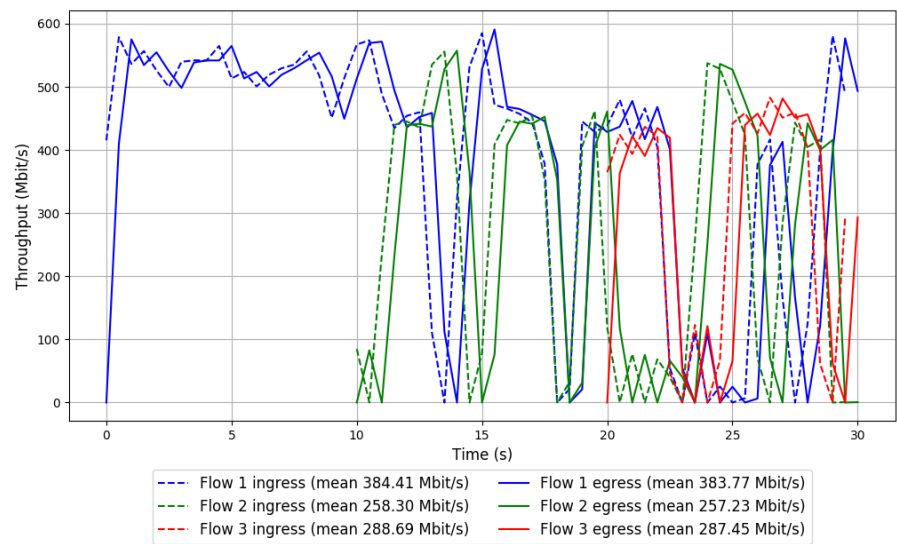


Run 5: Statistics of LEDBAT

Start at: 2018-11-30 09:25:30
End at: 2018-11-30 09:26:00
Local clock offset: -1.236 ms
Remote clock offset: -0.201 ms

Below is generated by plot.py at 2018-11-30 10:13:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 650.68 Mbit/s
95th percentile per-packet one-way delay: 16.702 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 383.77 Mbit/s
95th percentile per-packet one-way delay: 17.822 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 257.23 Mbit/s
95th percentile per-packet one-way delay: 7.171 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 287.45 Mbit/s
95th percentile per-packet one-way delay: 3.038 ms
Loss rate: 0.42%

Run 5: Report of LEDBAT — Data Link

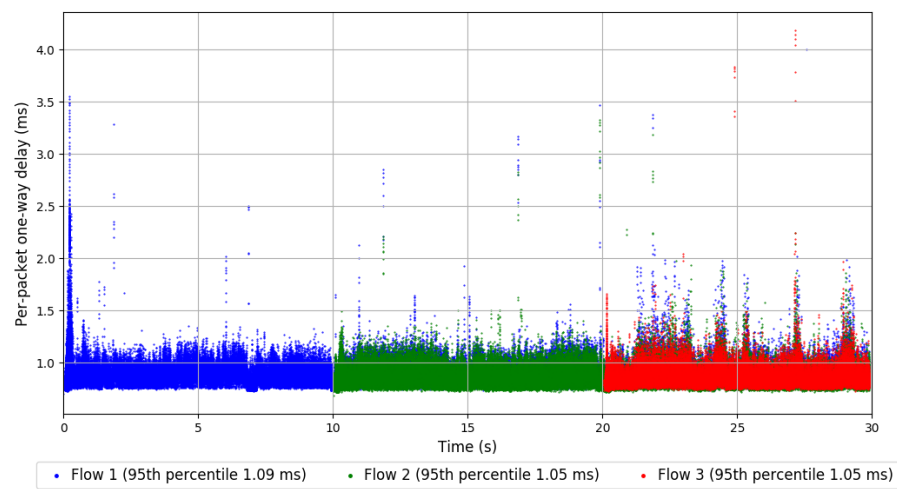
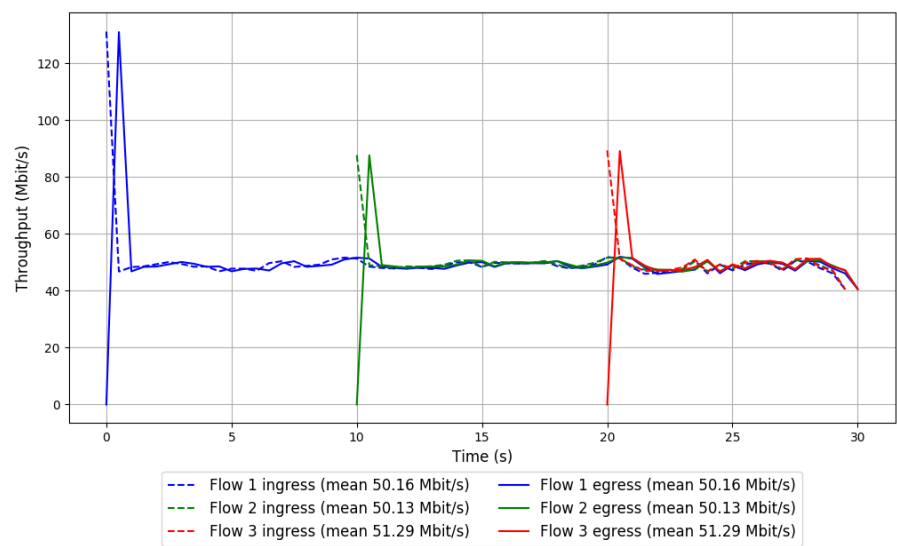


Run 1: Statistics of Indigo-Muses

Start at: 2018-11-30 07:20:08
End at: 2018-11-30 07:20:38
Local clock offset: -0.142 ms
Remote clock offset: -0.325 ms

Below is generated by plot.py at 2018-11-30 10:13:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 100.39 Mbit/s
95th percentile per-packet one-way delay: 1.070 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.16 Mbit/s
95th percentile per-packet one-way delay: 1.086 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 50.13 Mbit/s
95th percentile per-packet one-way delay: 1.053 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 51.29 Mbit/s
95th percentile per-packet one-way delay: 1.047 ms
Loss rate: 0.00%

Run 1: Report of Indigo-Muses — Data Link



Run 2: Statistics of Indigo-Muses

Start at: 2018-11-30 07:47:17

End at: 2018-11-30 07:47:47

Local clock offset: 0.741 ms

Remote clock offset: 0.263 ms

Below is generated by plot.py at 2018-11-30 10:13:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 100.34 Mbit/s

95th percentile per-packet one-way delay: 1.368 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.95 Mbit/s

95th percentile per-packet one-way delay: 1.367 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.63 Mbit/s

95th percentile per-packet one-way delay: 1.381 ms

Loss rate: 0.00%

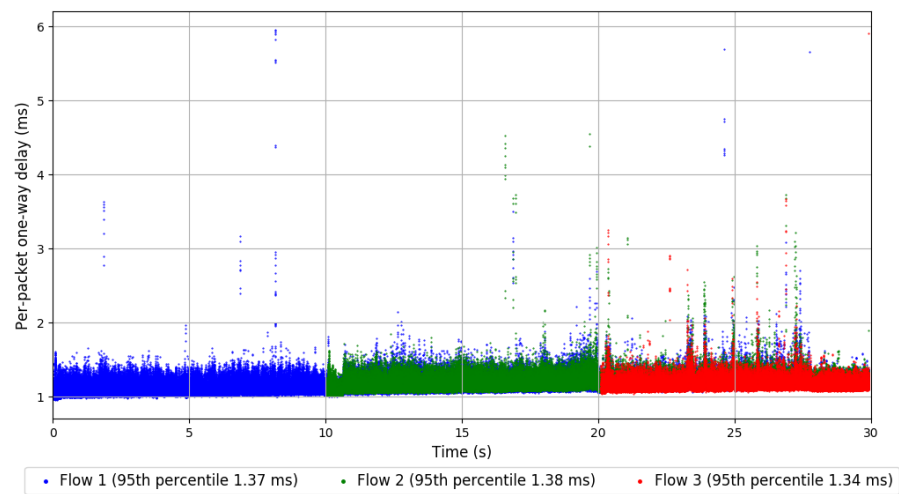
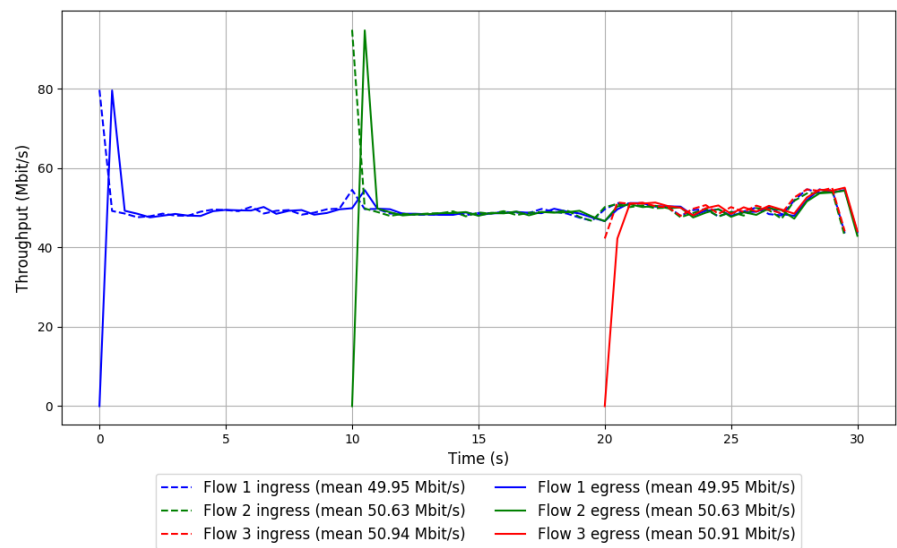
-- Flow 3:

Average throughput: 50.91 Mbit/s

95th percentile per-packet one-way delay: 1.342 ms

Loss rate: 0.01%

Run 2: Report of Indigo-Muses — Data Link



Run 3: Statistics of Indigo-Muses

Start at: 2018-11-30 08:14:20

End at: 2018-11-30 08:14:50

Local clock offset: 4.026 ms

Remote clock offset: 0.126 ms

Below is generated by plot.py at 2018-11-30 10:13:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 100.60 Mbit/s

95th percentile per-packet one-way delay: 0.959 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.93 Mbit/s

95th percentile per-packet one-way delay: 0.987 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.20 Mbit/s

95th percentile per-packet one-way delay: 0.940 ms

Loss rate: 0.00%

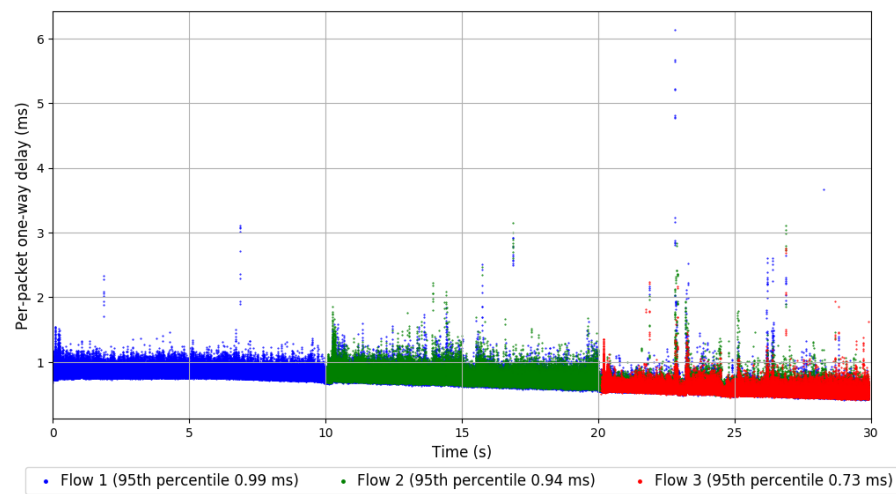
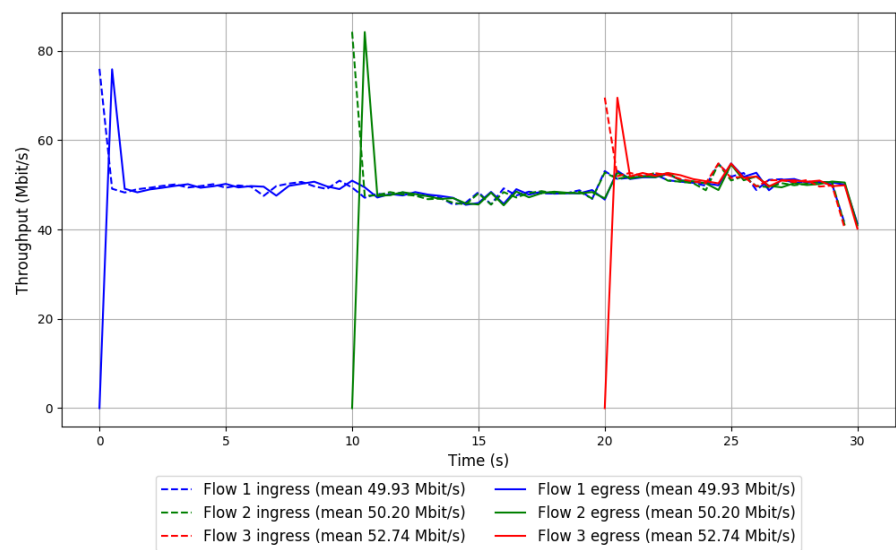
-- Flow 3:

Average throughput: 52.74 Mbit/s

95th percentile per-packet one-way delay: 0.733 ms

Loss rate: 0.00%

Run 3: Report of Indigo-Muses — Data Link



Run 4: Statistics of Indigo-Muses

Start at: 2018-11-30 08:41:25

End at: 2018-11-30 08:41:55

Local clock offset: -4.017 ms

Remote clock offset: 0.107 ms

Below is generated by plot.py at 2018-11-30 10:13:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 101.17 Mbit/s

95th percentile per-packet one-way delay: 0.952 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 50.29 Mbit/s

95th percentile per-packet one-way delay: 0.956 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.83 Mbit/s

95th percentile per-packet one-way delay: 0.967 ms

Loss rate: 0.00%

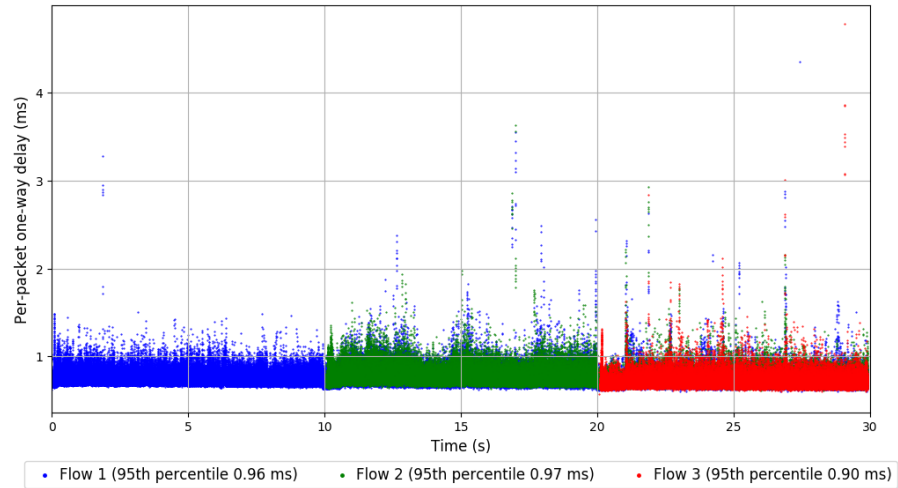
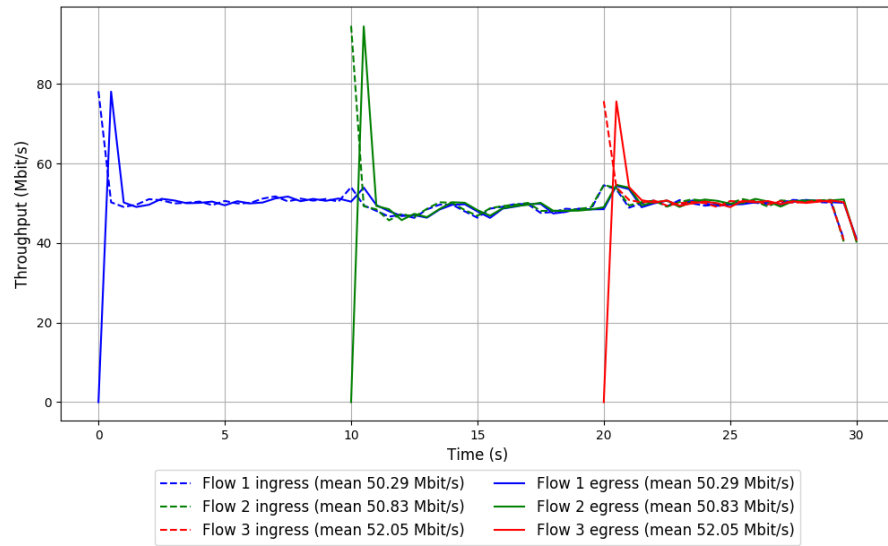
-- Flow 3:

Average throughput: 52.05 Mbit/s

95th percentile per-packet one-way delay: 0.897 ms

Loss rate: 0.00%

Run 4: Report of Indigo-Muses — Data Link



Run 5: Statistics of Indigo-Muses

Start at: 2018-11-30 09:08:32

End at: 2018-11-30 09:09:02

Local clock offset: -5.936 ms

Remote clock offset: 0.311 ms

Below is generated by plot.py at 2018-11-30 10:13:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 102.99 Mbit/s

95th percentile per-packet one-way delay: 0.970 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 51.11 Mbit/s

95th percentile per-packet one-way delay: 0.983 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.17 Mbit/s

95th percentile per-packet one-way delay: 0.984 ms

Loss rate: 0.00%

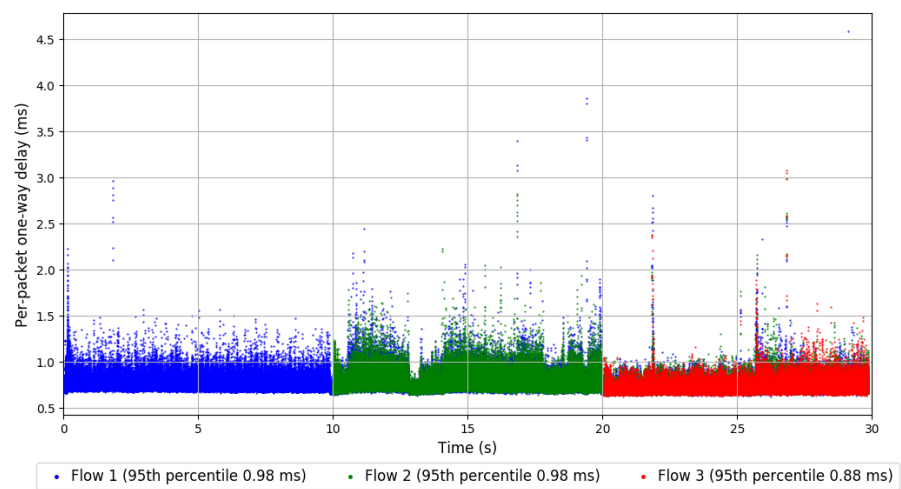
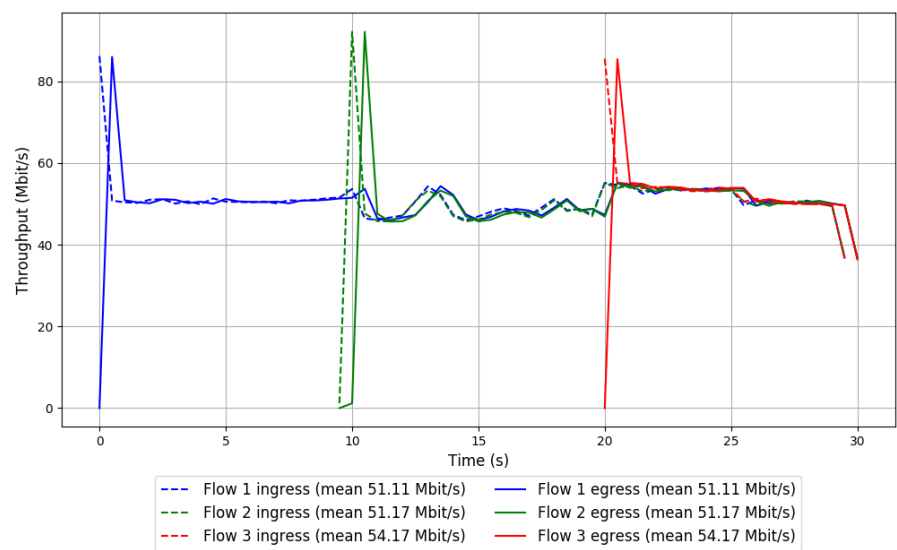
-- Flow 3:

Average throughput: 54.17 Mbit/s

95th percentile per-packet one-way delay: 0.883 ms

Loss rate: 0.00%

Run 5: Report of Indigo-Muses — Data Link

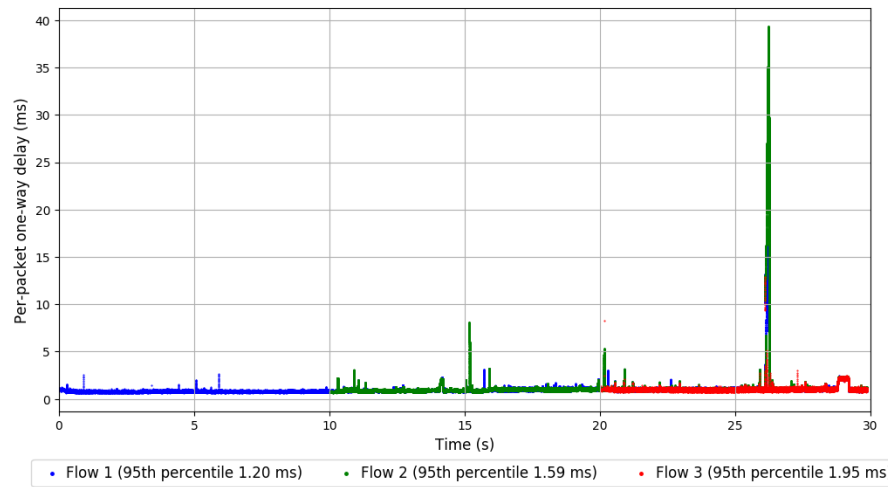
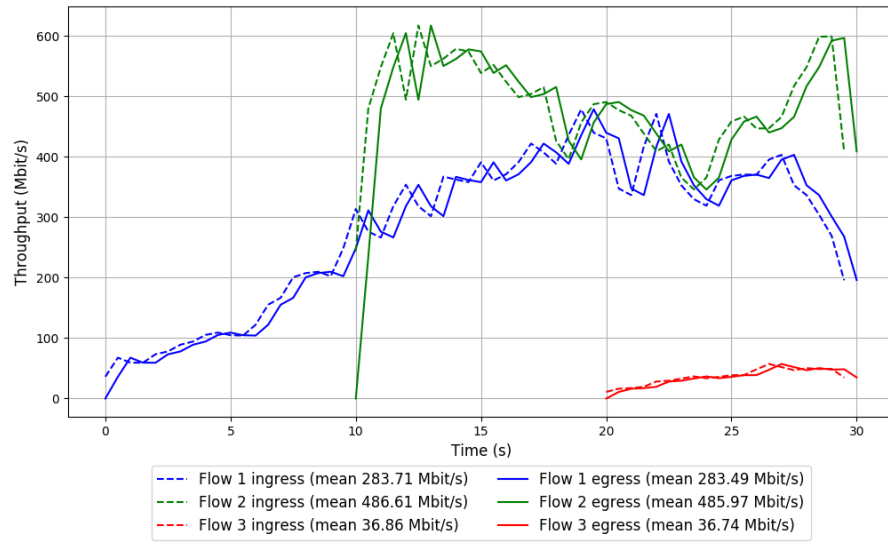


Run 1: Statistics of PCC-Allegro

Start at: 2018-11-30 07:18:39
End at: 2018-11-30 07:19:09
Local clock offset: -0.159 ms
Remote clock offset: -0.351 ms

Below is generated by plot.py at 2018-11-30 10:15:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 618.76 Mbit/s
95th percentile per-packet one-way delay: 1.327 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 283.49 Mbit/s
95th percentile per-packet one-way delay: 1.202 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 485.97 Mbit/s
95th percentile per-packet one-way delay: 1.595 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 36.74 Mbit/s
95th percentile per-packet one-way delay: 1.953 ms
Loss rate: 0.33%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-11-30 07:45:47

End at: 2018-11-30 07:46:17

Local clock offset: 0.286 ms

Remote clock offset: 0.102 ms

Below is generated by plot.py at 2018-11-30 10:17:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 668.95 Mbit/s

95th percentile per-packet one-way delay: 1.461 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 455.51 Mbit/s

95th percentile per-packet one-way delay: 1.535 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 318.75 Mbit/s

95th percentile per-packet one-way delay: 1.389 ms

Loss rate: 0.09%

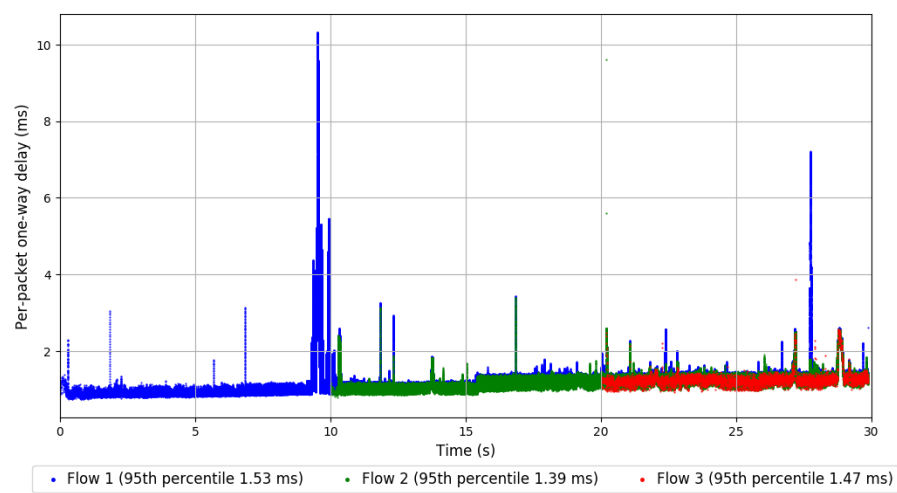
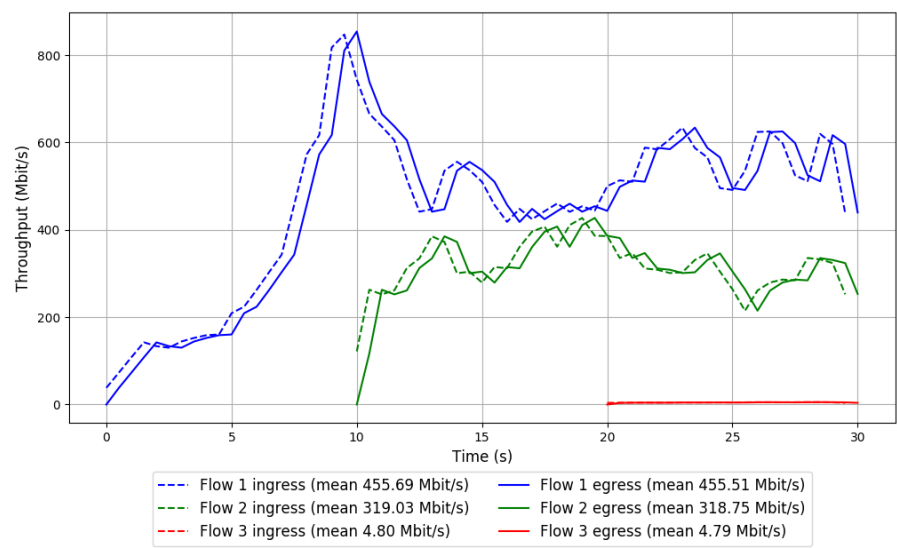
-- Flow 3:

Average throughput: 4.79 Mbit/s

95th percentile per-packet one-way delay: 1.466 ms

Loss rate: 0.10%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-11-30 08:12:59

End at: 2018-11-30 08:13:29

Local clock offset: 3.952 ms

Remote clock offset: 0.191 ms

Below is generated by plot.py at 2018-11-30 10:17:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 319.80 Mbit/s

95th percentile per-packet one-way delay: 2.239 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 78.33 Mbit/s

95th percentile per-packet one-way delay: 2.209 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 161.89 Mbit/s

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

Loss rate: 0.22%

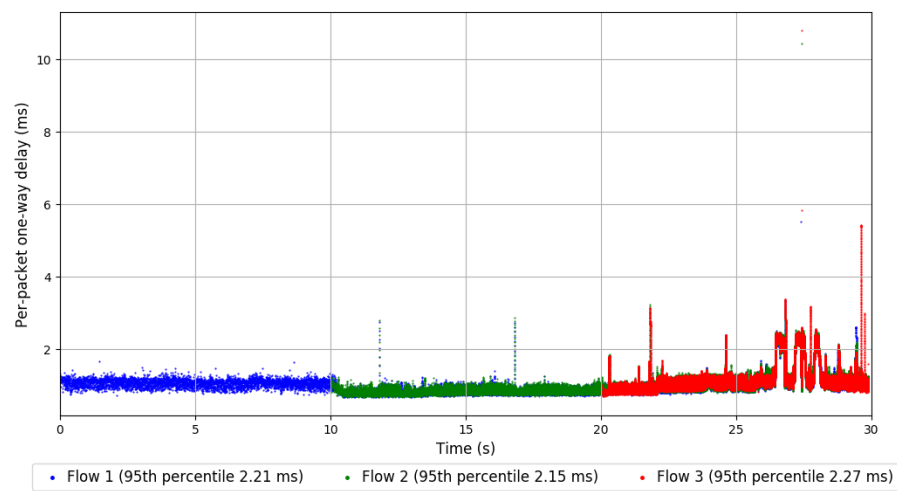
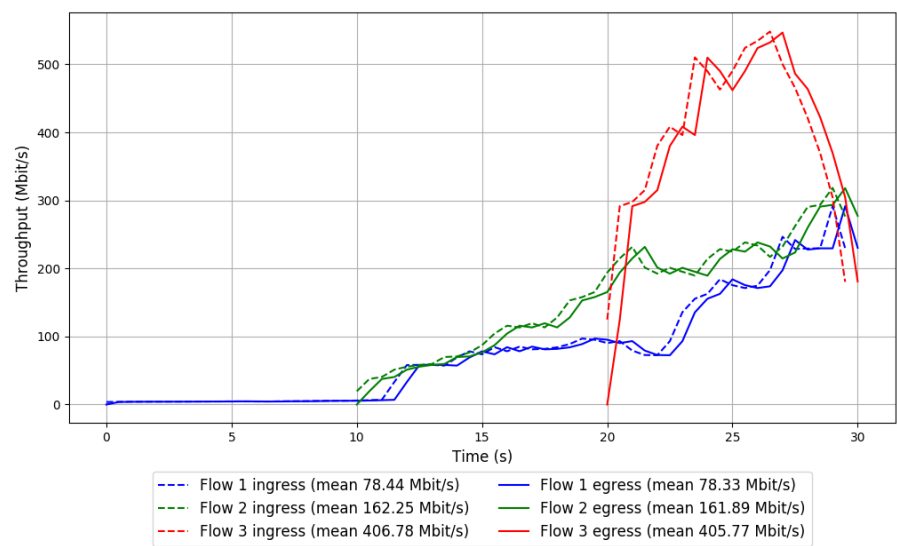
-- Flow 3:

Average throughput: 405.77 Mbit/s

95th percentile per-packet one-way delay: 2.274 ms

Loss rate: 0.24%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-11-30 08:39:58

End at: 2018-11-30 08:40:28

Local clock offset: -3.846 ms

Remote clock offset: 0.227 ms

Below is generated by plot.py at 2018-11-30 10:17:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 532.99 Mbit/s

95th percentile per-packet one-way delay: 1.175 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 36.09 Mbit/s

95th percentile per-packet one-way delay: 1.092 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 722.19 Mbit/s

95th percentile per-packet one-way delay: 1.178 ms

Loss rate: 0.06%

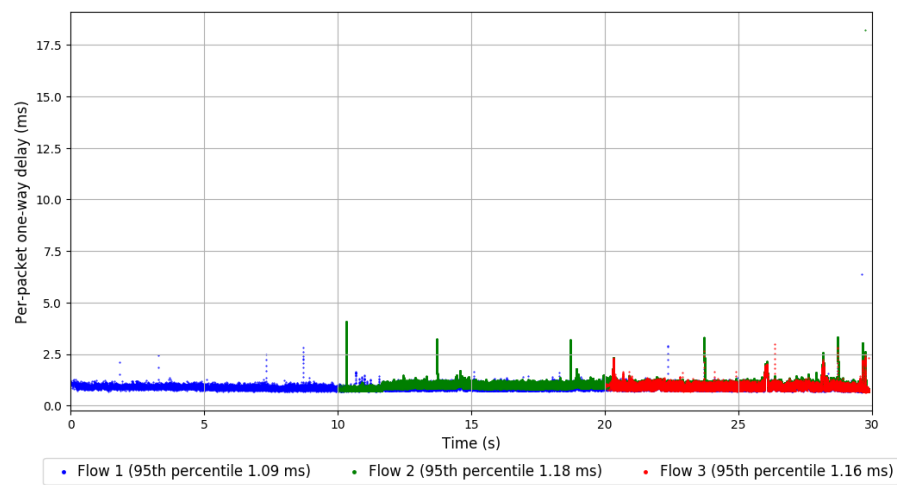
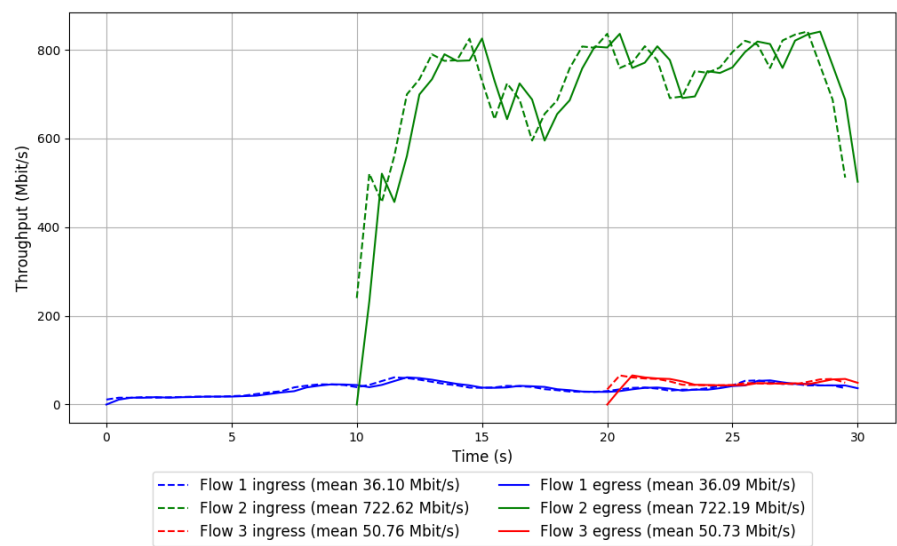
-- Flow 3:

Average throughput: 50.73 Mbit/s

95th percentile per-packet one-way delay: 1.160 ms

Loss rate: 0.04%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-11-30 09:07:05

End at: 2018-11-30 09:07:35

Local clock offset: -5.845 ms

Remote clock offset: 0.32 ms

Below is generated by plot.py at 2018-11-30 10:17:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 561.60 Mbit/s

95th percentile per-packet one-way delay: 1.271 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 64.96 Mbit/s

95th percentile per-packet one-way delay: 1.055 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 740.66 Mbit/s

95th percentile per-packet one-way delay: 1.304 ms

Loss rate: 0.06%

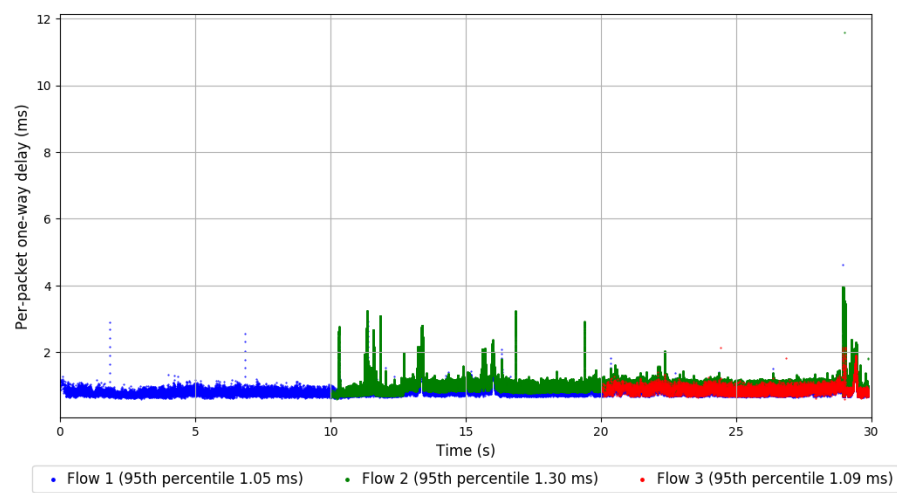
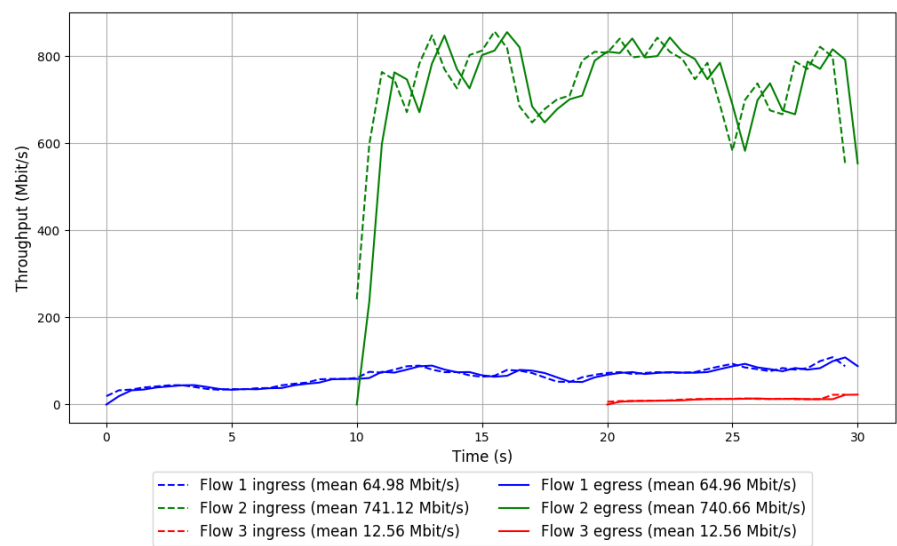
-- Flow 3:

Average throughput: 12.56 Mbit/s

95th percentile per-packet one-way delay: 1.091 ms

Loss rate: 0.03%

Run 5: Report of PCC-Allegro — Data Link

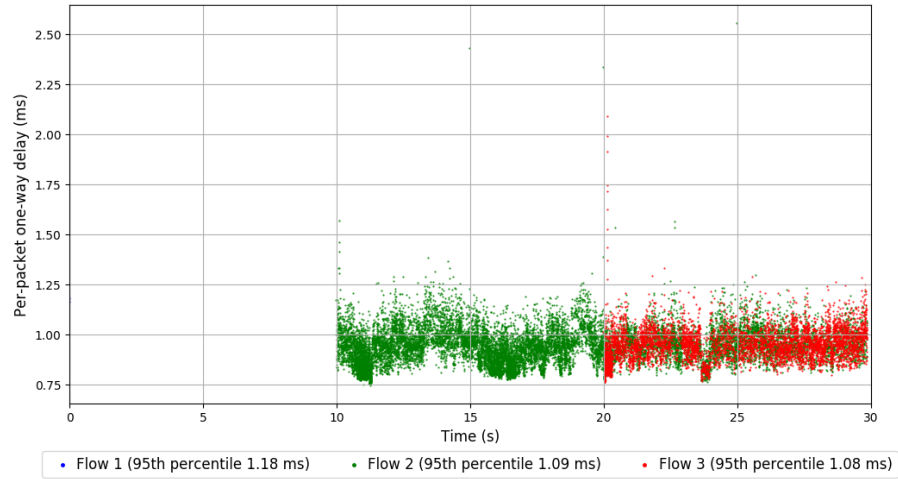
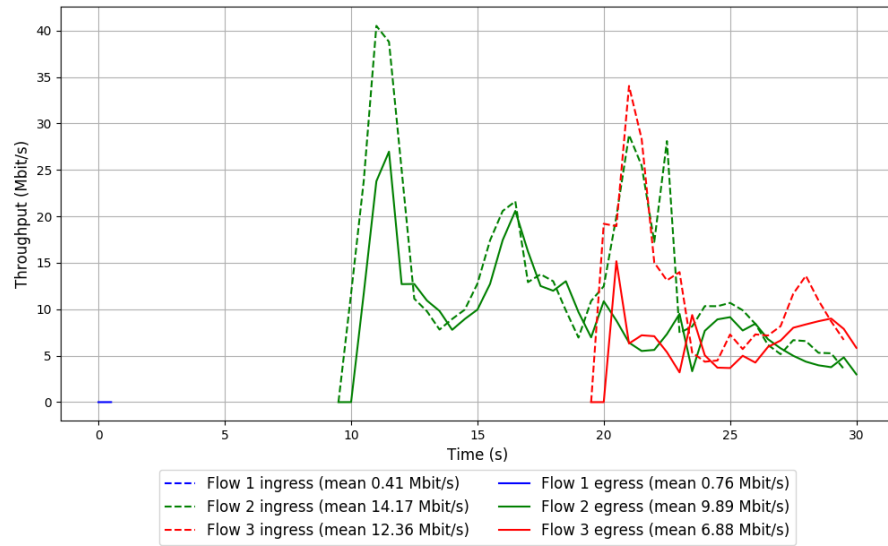


```
Run 1: Statistics of PCC-Expr

Start at: 2018-11-30 07:32:51
End at: 2018-11-30 07:33:21
Local clock offset: 0.004 ms
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2018-11-30 10:17:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.86 Mbit/s
95th percentile per-packet one-way delay: 1.089 ms
Loss rate: 34.48%
-- Flow 1:
Average throughput: 0.76 Mbit/s
95th percentile per-packet one-way delay: 1.182 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 9.89 Mbit/s
95th percentile per-packet one-way delay: 1.092 ms
Loss rate: 30.20%
-- Flow 3:
Average throughput: 6.88 Mbit/s
95th percentile per-packet one-way delay: 1.082 ms
Loss rate: 44.35%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-11-30 08:00:06

End at: 2018-11-30 08:00:36

Local clock offset: 3.042 ms

Remote clock offset: 0.44 ms

Below is generated by plot.py at 2018-11-30 10:17:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.14 Mbit/s

95th percentile per-packet one-way delay: 1.144 ms

Loss rate: 58.11%

-- Flow 1:

Average throughput: 0.78 Mbit/s

95th percentile per-packet one-way delay: 1.142 ms

Loss rate: 85.71%

-- Flow 2:

Average throughput: 6.36 Mbit/s

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

Loss rate: 51.10%

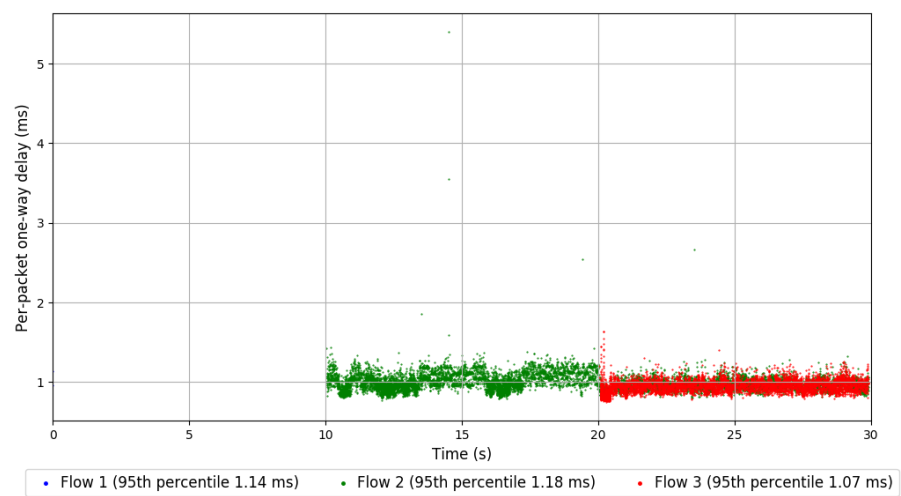
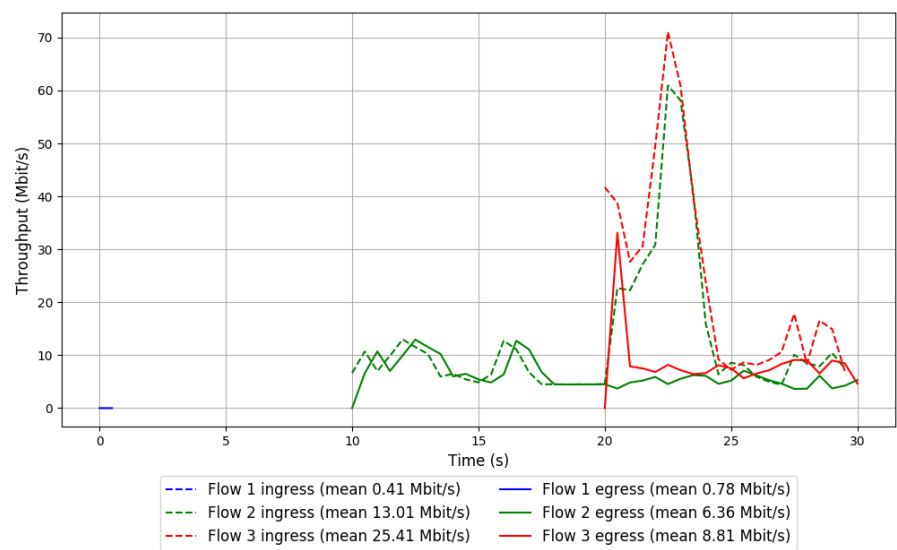
-- Flow 3:

Average throughput: 8.81 Mbit/s

95th percentile per-packet one-way delay: 1.069 ms

Loss rate: 65.35%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-11-30 08:27:10

End at: 2018-11-30 08:27:40

Local clock offset: -1.819 ms

Remote clock offset: 0.095 ms

Below is generated by plot.py at 2018-11-30 10:17:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.35 Mbit/s

95th percentile per-packet one-way delay: 0.906 ms

Loss rate: 2.46%

-- Flow 1:

Average throughput: 0.74 Mbit/s

95th percentile per-packet one-way delay: 1.057 ms

Loss rate: 85.71%

-- Flow 2:

Average throughput: 6.27 Mbit/s

95th percentile per-packet one-way delay: 0.925 ms

Loss rate: 1.09%

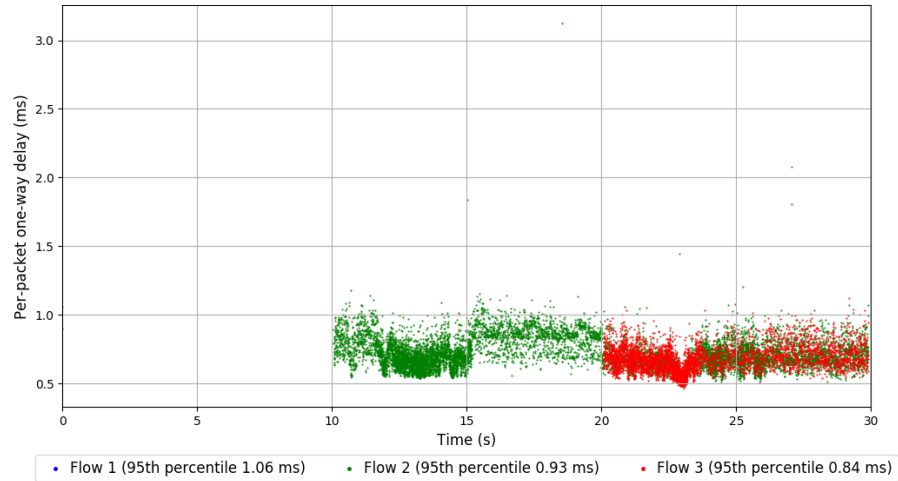
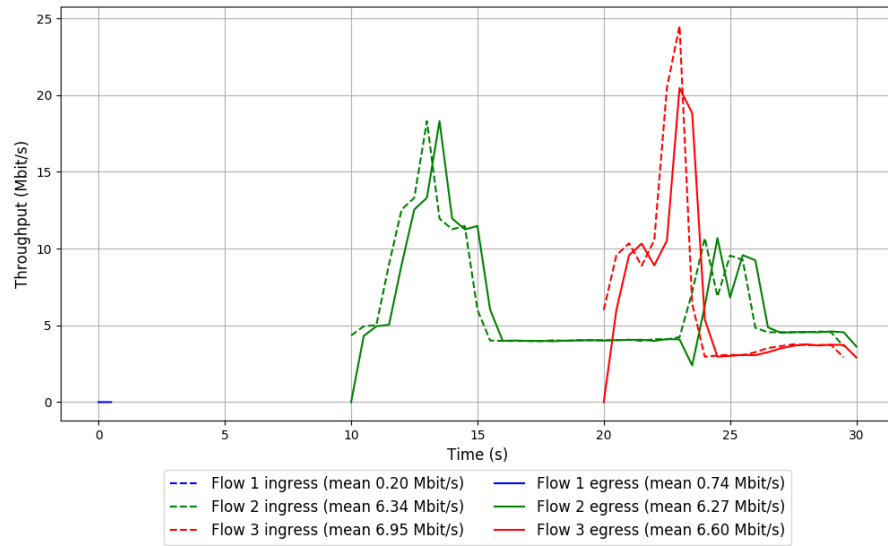
-- Flow 3:

Average throughput: 6.60 Mbit/s

95th percentile per-packet one-way delay: 0.838 ms

Loss rate: 4.95%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-11-30 08:54:06

End at: 2018-11-30 08:54:36

Local clock offset: -5.004 ms

Remote clock offset: 0.259 ms

Below is generated by plot.py at 2018-11-30 10:17:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.82 Mbit/s

95th percentile per-packet one-way delay: 0.970 ms

Loss rate: 24.57%

-- Flow 1:

Average throughput: 0.67 Mbit/s

95th percentile per-packet one-way delay: 1.128 ms

Loss rate: 85.71%

-- Flow 2:

Average throughput: 10.22 Mbit/s

95th percentile per-packet one-way delay: 0.960 ms

Loss rate: 22.90%

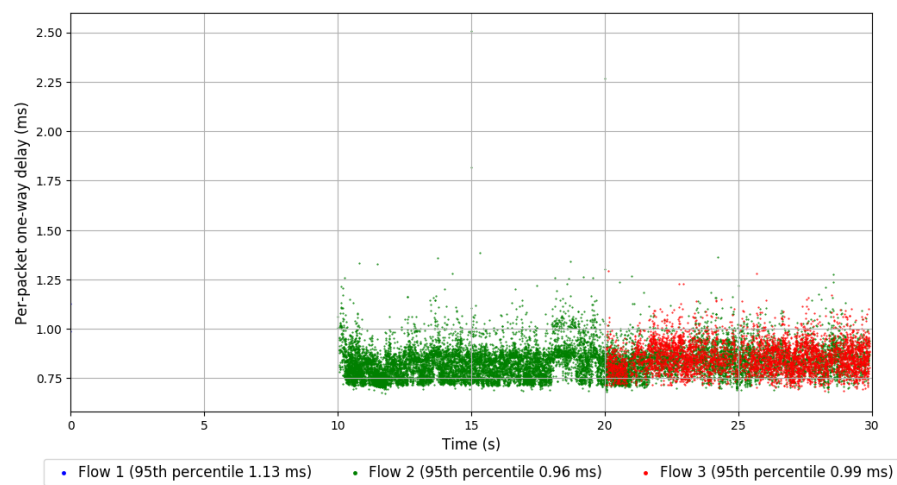
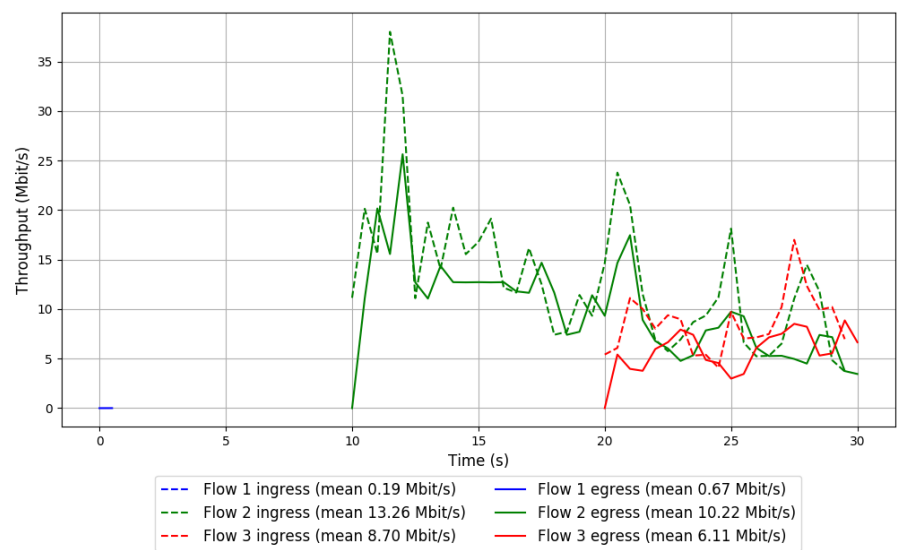
-- Flow 3:

Average throughput: 6.11 Mbit/s

95th percentile per-packet one-way delay: 0.987 ms

Loss rate: 29.70%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-11-30 09:21:18

End at: 2018-11-30 09:21:48

Local clock offset: -2.692 ms

Remote clock offset: 0.023 ms

Below is generated by plot.py at 2018-11-30 10:17:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.65 Mbit/s

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

Loss rate: 0.01%

-- Flow 1:

Average throughput: 0.73 Mbit/s

95th percentile per-packet one-way delay: 1.517 ms

Loss rate: 85.71%

-- Flow 2:

Average throughput: 4.66 Mbit/s

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

Loss rate: 0.00%

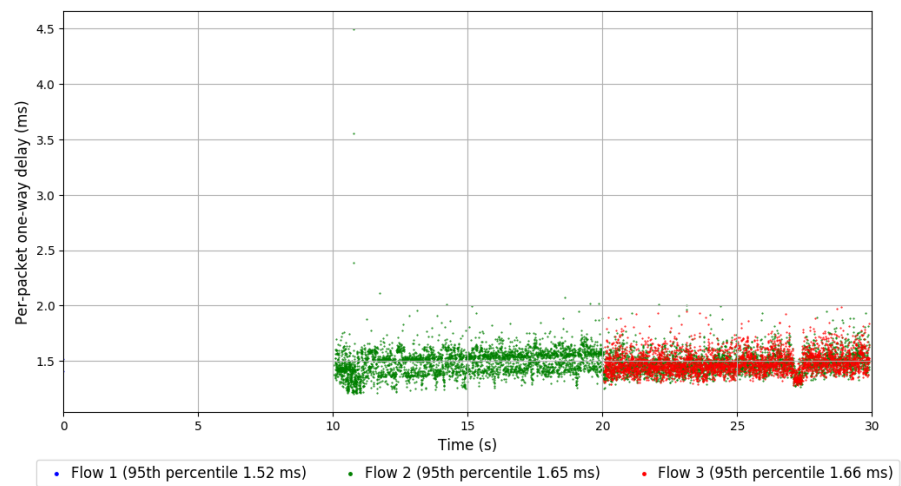
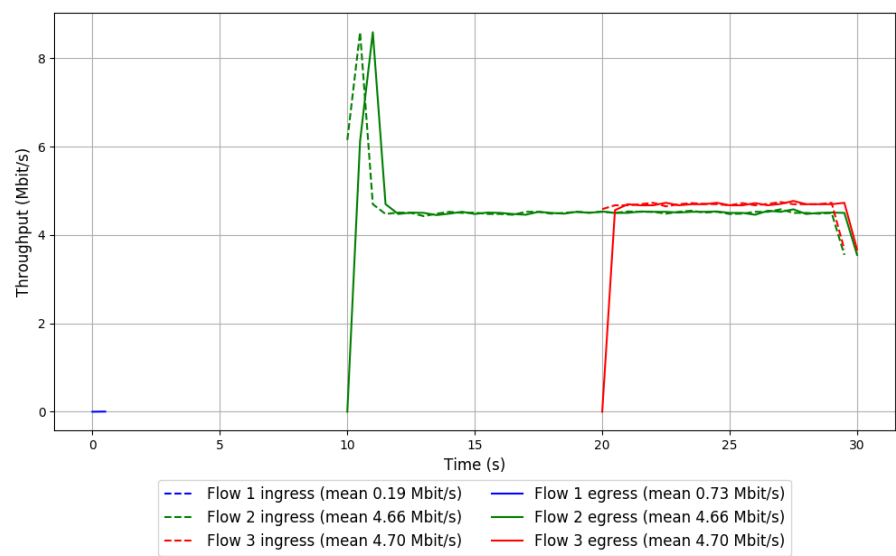
-- Flow 3:

Average throughput: 4.70 Mbit/s

95th percentile per-packet one-way delay: 1.664 ms

Loss rate: 0.00%

Run 5: Report of PCC-Expr — Data Link

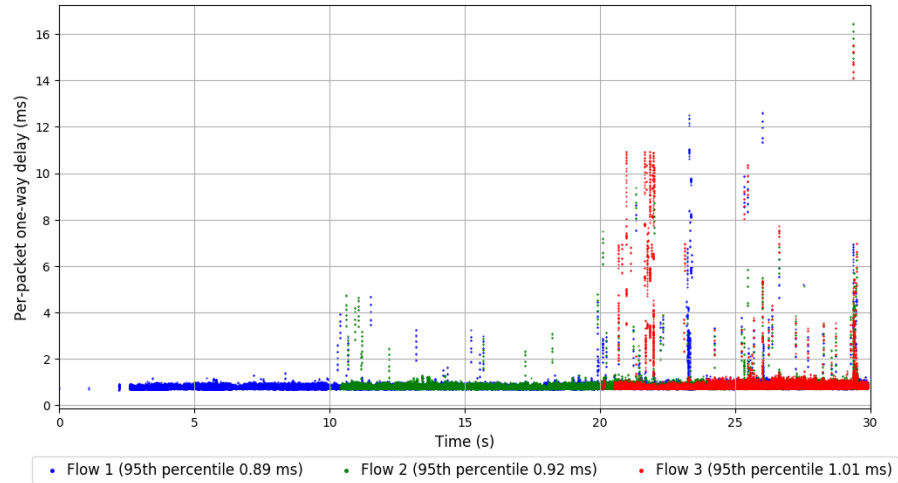
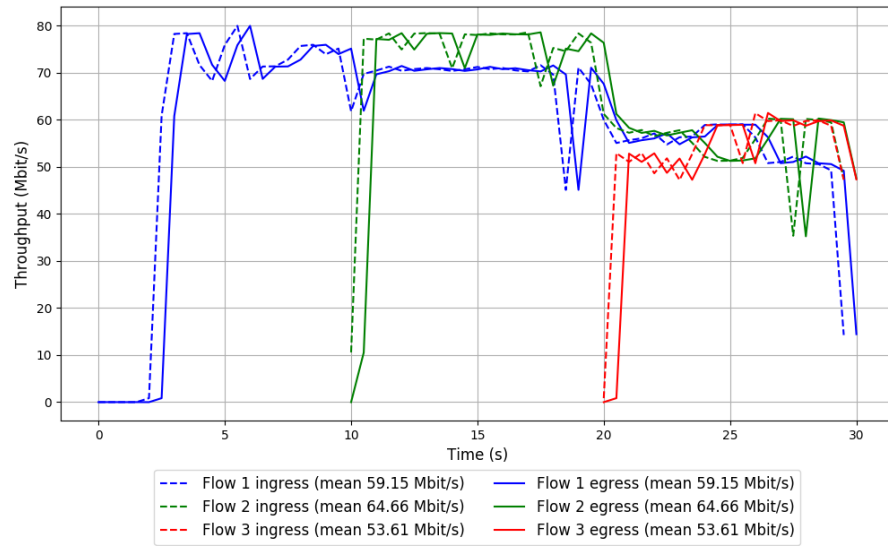


Run 1: Statistics of QUIC Cubic

Start at: 2018-11-30 07:23:15
End at: 2018-11-30 07:23:45
Local clock offset: -0.065 ms
Remote clock offset: -0.275 ms

Below is generated by plot.py at 2018-11-30 10:17:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 119.72 Mbit/s
95th percentile per-packet one-way delay: 0.920 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.15 Mbit/s
95th percentile per-packet one-way delay: 0.891 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 64.66 Mbit/s
95th percentile per-packet one-way delay: 0.917 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 53.61 Mbit/s
95th percentile per-packet one-way delay: 1.012 ms
Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-11-30 07:50:26

End at: 2018-11-30 07:50:56

Local clock offset: 1.586 ms

Remote clock offset: 0.346 ms

Below is generated by plot.py at 2018-11-30 10:17:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 126.70 Mbit/s

95th percentile per-packet one-way delay: 2.440 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 69.17 Mbit/s

95th percentile per-packet one-way delay: 1.153 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.23 Mbit/s

95th percentile per-packet one-way delay: 2.695 ms

Loss rate: 0.00%

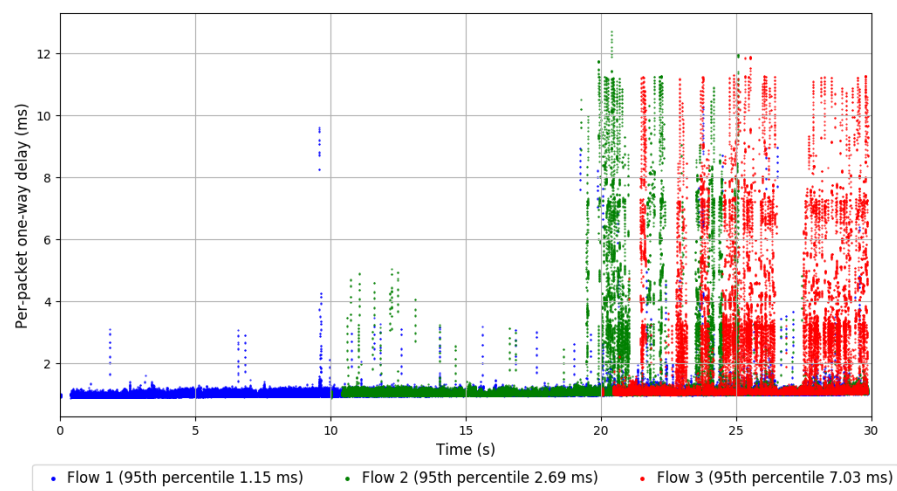
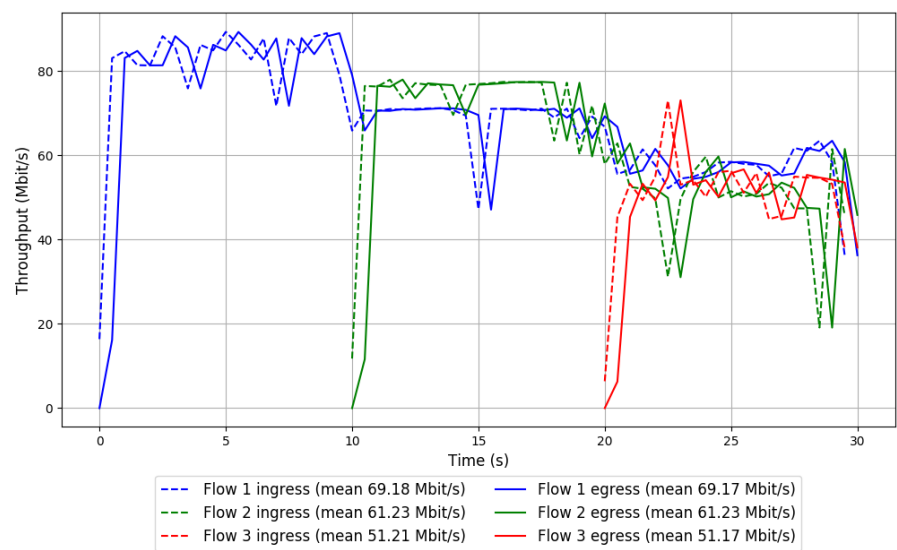
-- Flow 3:

Average throughput: 51.17 Mbit/s

95th percentile per-packet one-way delay: 7.031 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-11-30 08:17:27

End at: 2018-11-30 08:17:57

Local clock offset: 2.236 ms

Remote clock offset: 0.122 ms

Below is generated by plot.py at 2018-11-30 10:17:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.35 Mbit/s

95th percentile per-packet one-way delay: 2.349 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.78 Mbit/s

95th percentile per-packet one-way delay: 0.432 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 63.27 Mbit/s

95th percentile per-packet one-way delay: 3.465 ms

Loss rate: 0.00%

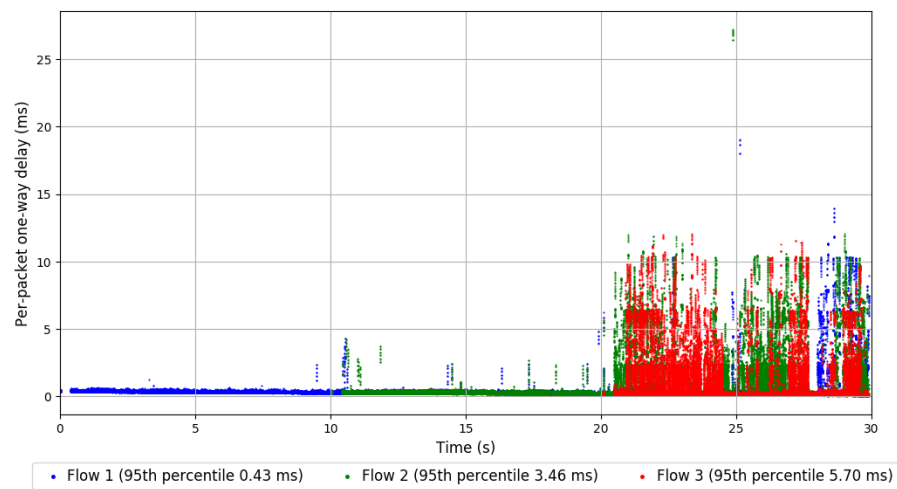
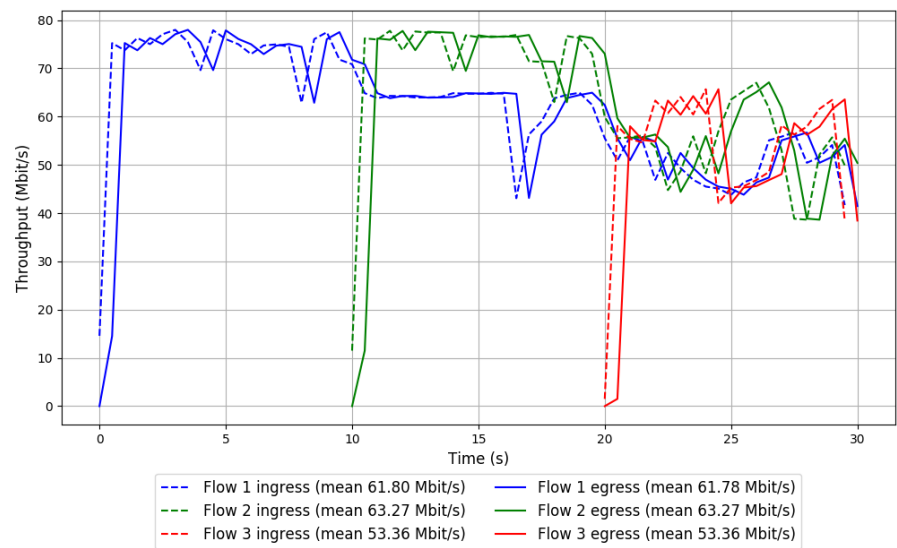
-- Flow 3:

Average throughput: 53.36 Mbit/s

95th percentile per-packet one-way delay: 5.699 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-11-30 08:44:31

End at: 2018-11-30 08:45:01

Local clock offset: -4.285 ms

Remote clock offset: 0.174 ms

Below is generated by plot.py at 2018-11-30 10:17:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.45 Mbit/s

95th percentile per-packet one-way delay: 2.857 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 69.44 Mbit/s

95th percentile per-packet one-way delay: 0.978 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 57.60 Mbit/s

95th percentile per-packet one-way delay: 2.857 ms

Loss rate: 0.00%

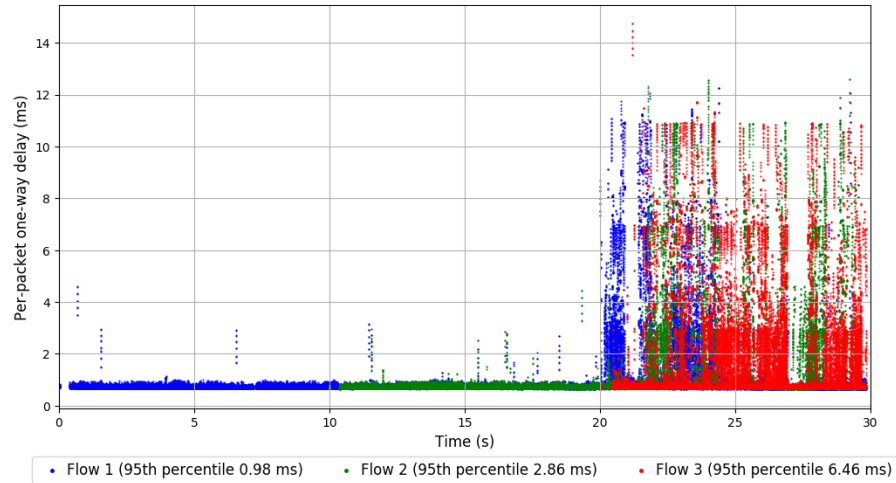
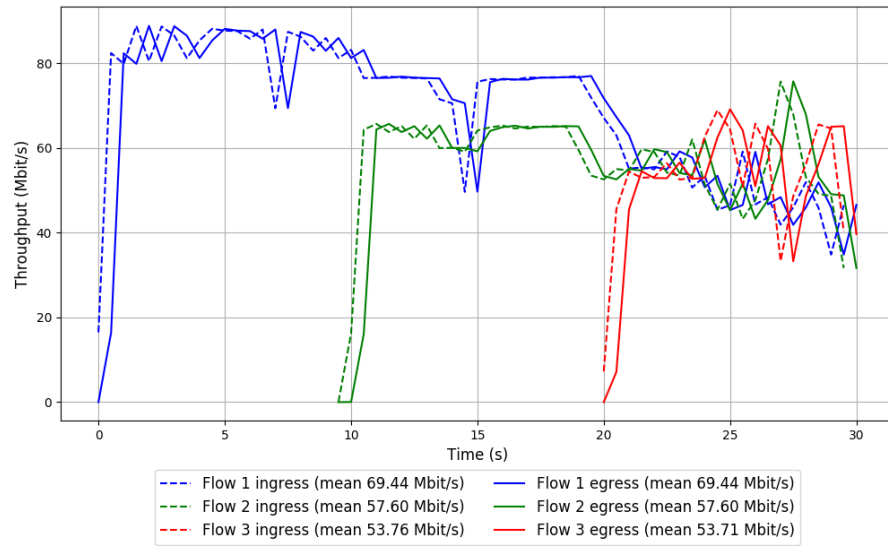
-- Flow 3:

Average throughput: 53.71 Mbit/s

95th percentile per-packet one-way delay: 6.457 ms

Loss rate: 0.06%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-11-30 09:11:38

End at: 2018-11-30 09:12:08

Local clock offset: -6.14 ms

Remote clock offset: 0.373 ms

Below is generated by plot.py at 2018-11-30 10:17:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.08 Mbit/s

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

Loss rate: 0.01%

-- Flow 1:

Average throughput: 69.15 Mbit/s

95th percentile per-packet one-way delay: 1.035 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 56.26 Mbit/s

95th percentile per-packet one-way delay: 2.702 ms

Loss rate: 0.00%

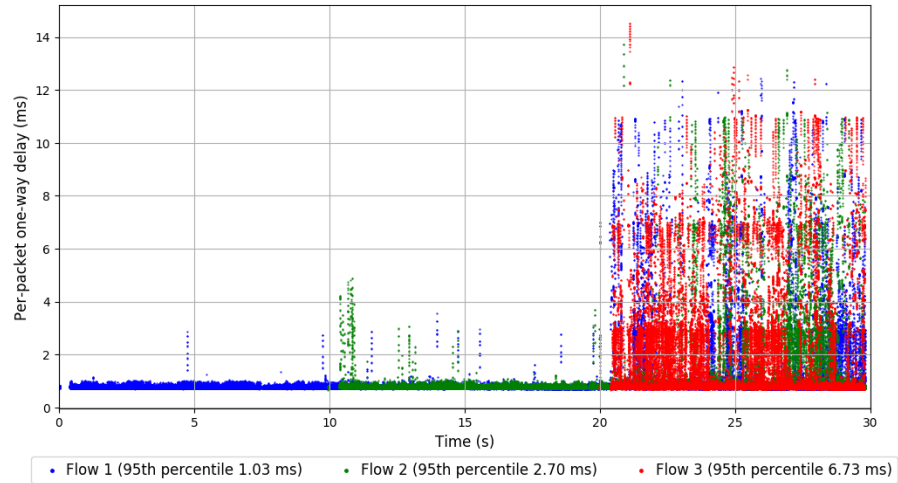
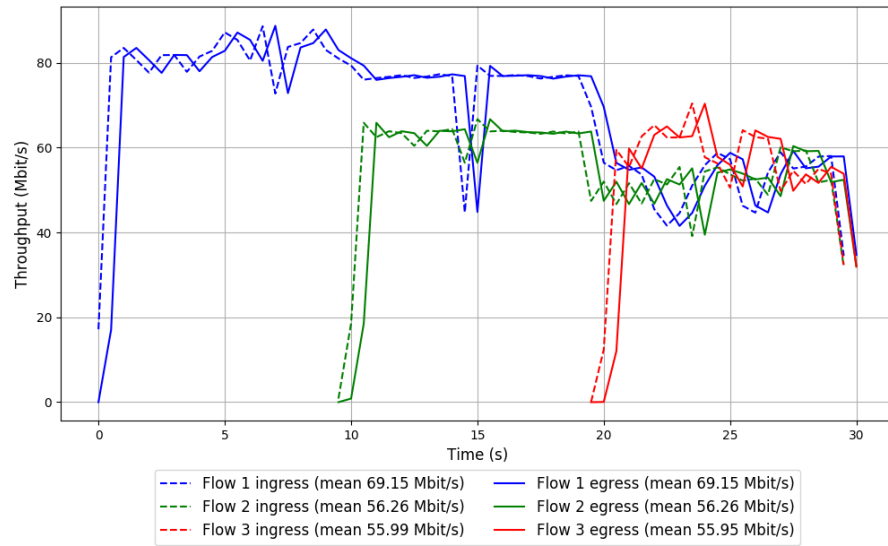
-- Flow 3:

Average throughput: 55.95 Mbit/s

95th percentile per-packet one-way delay: 6.726 ms

Loss rate: 0.05%

Run 5: Report of QUIC Cubic — Data Link

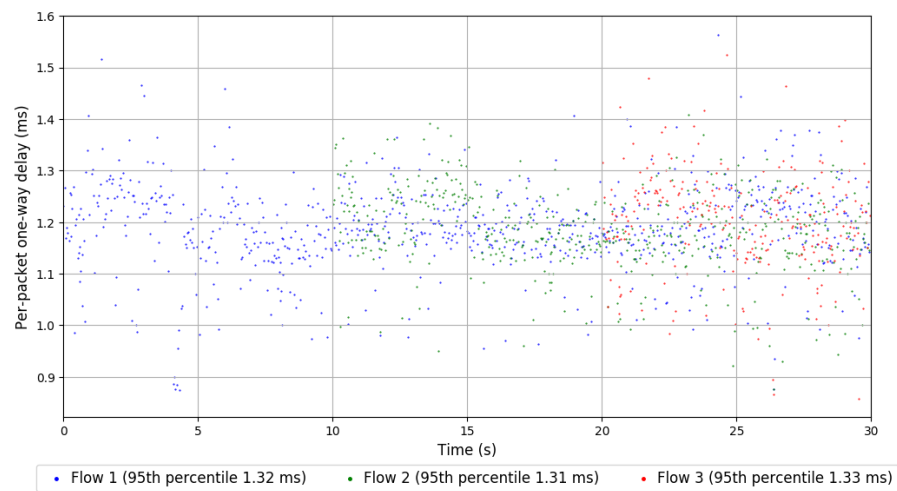
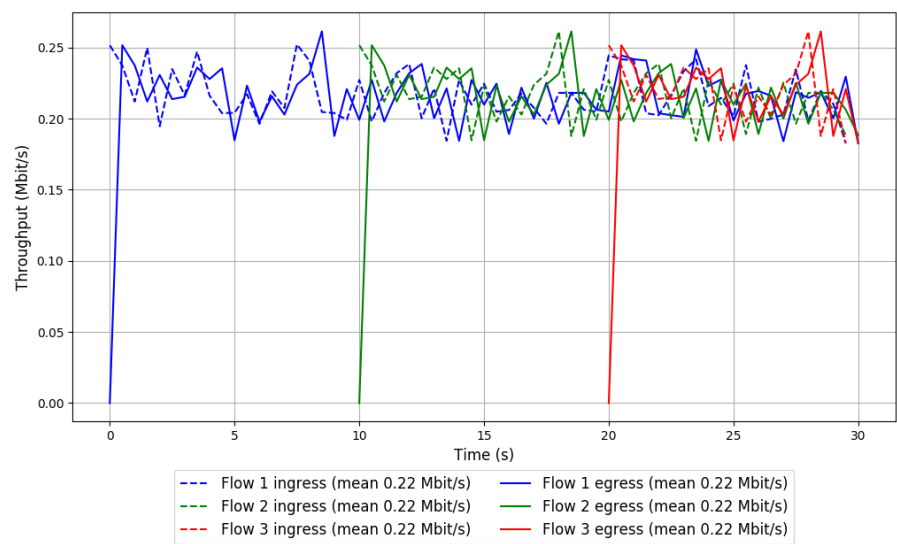


Run 1: Statistics of SReAM

Start at: 2018-11-30 07:30:11
End at: 2018-11-30 07:30:41
Local clock offset: -0.03 ms
Remote clock offset: -0.034 ms

Below is generated by plot.py at 2018-11-30 10:17:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 1.317 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.316 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.309 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.332 ms
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-11-30 07:57:26

End at: 2018-11-30 07:57:56

Local clock offset: 2.733 ms

Remote clock offset: 0.408 ms

Below is generated by plot.py at 2018-11-30 10:17:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.310 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.307 ms

Loss rate: 0.00%

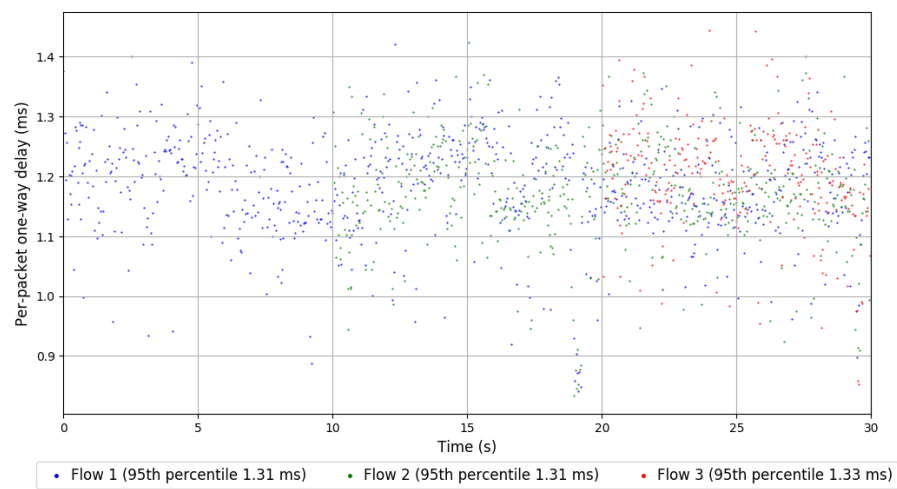
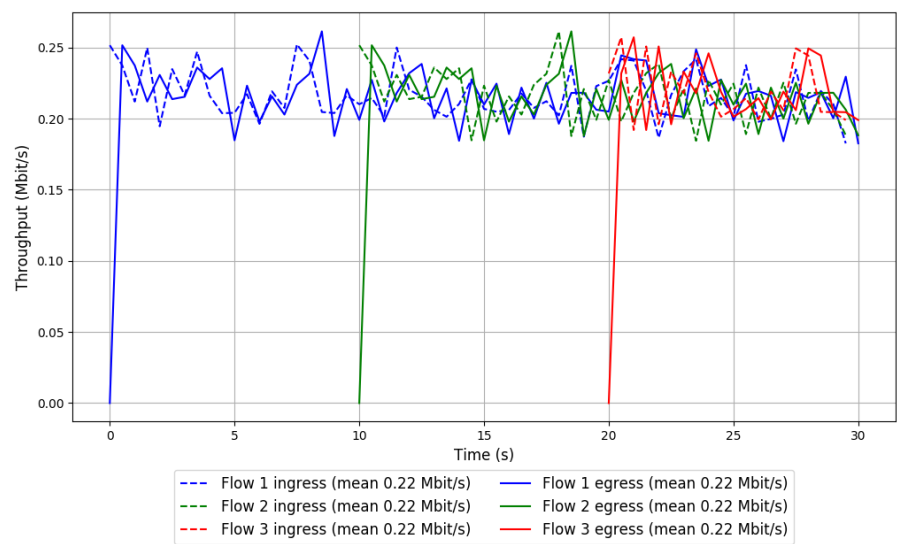
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.331 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

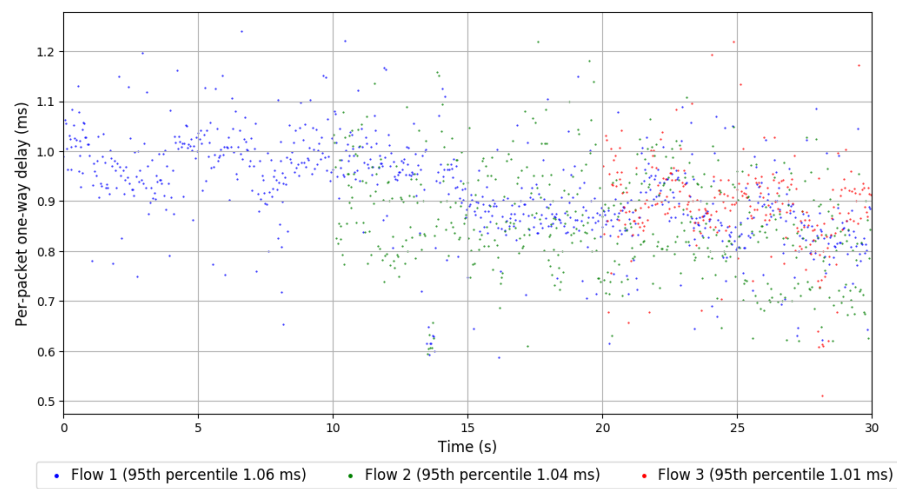
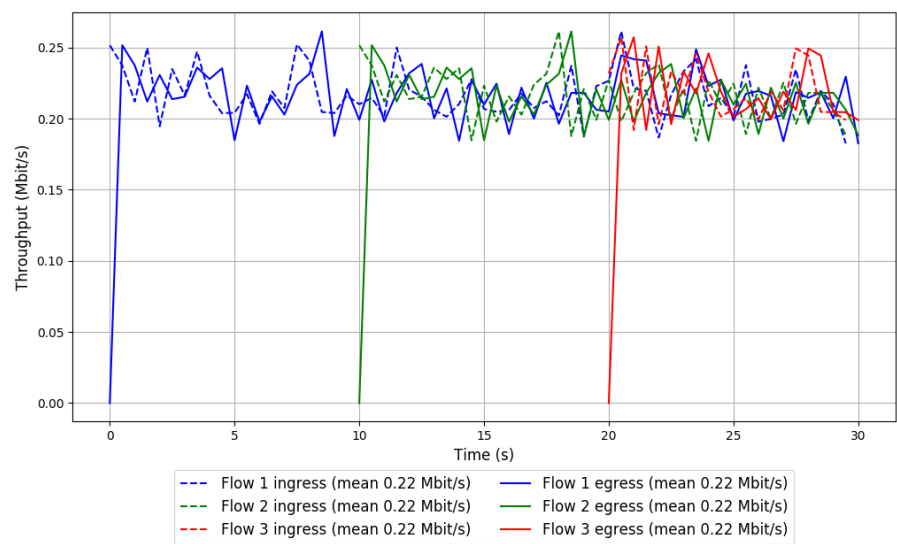


Run 3: Statistics of SReAM

Start at: 2018-11-30 08:24:31
End at: 2018-11-30 08:25:01
Local clock offset: -1.083 ms
Remote clock offset: 0.167 ms

Below is generated by plot.py at 2018-11-30 10:17:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 1.051 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.062 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.040 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.007 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-11-30 08:51:29

End at: 2018-11-30 08:51:59

Local clock offset: -4.841 ms

Remote clock offset: 0.227 ms

Below is generated by plot.py at 2018-11-30 10:17:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 1.238 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.264 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.166 ms

Loss rate: 0.00%

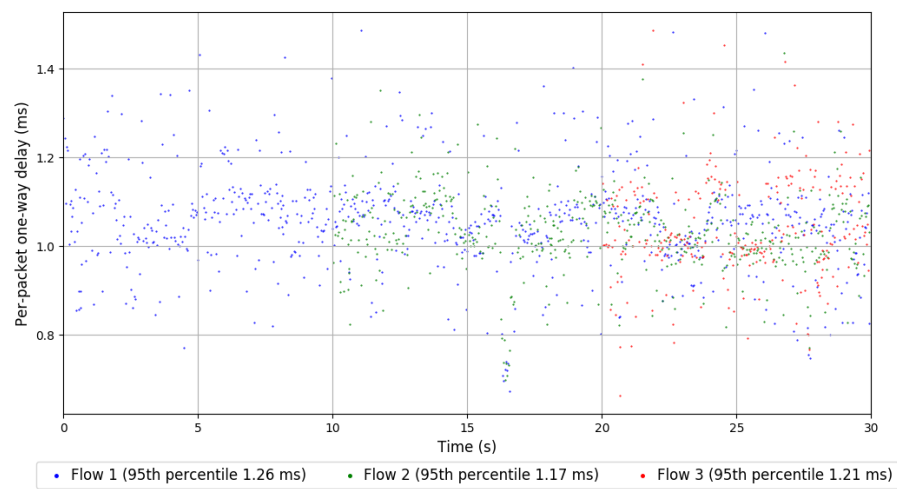
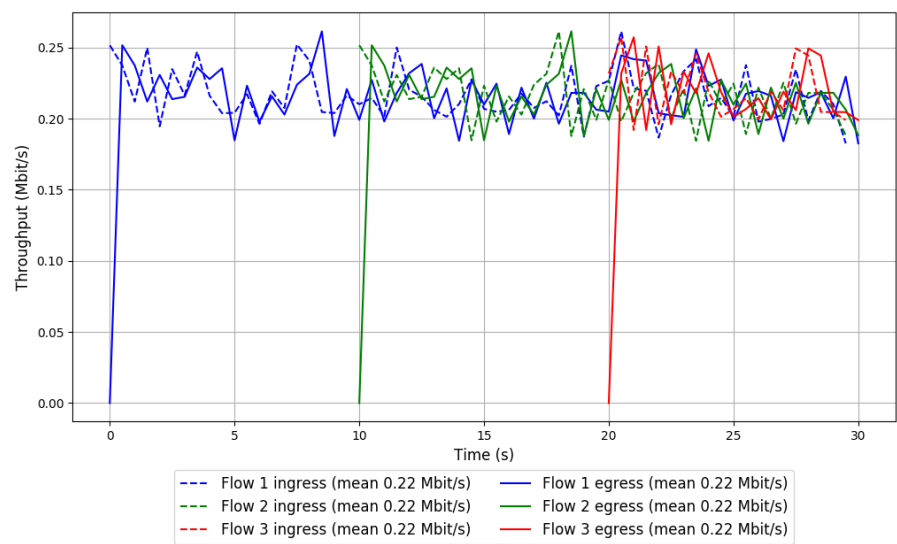
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-11-30 09:18:38

End at: 2018-11-30 09:19:08

Local clock offset: -3.884 ms

Remote clock offset: 0.046 ms

Below is generated by plot.py at 2018-11-30 10:17:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 1.698 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.696 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

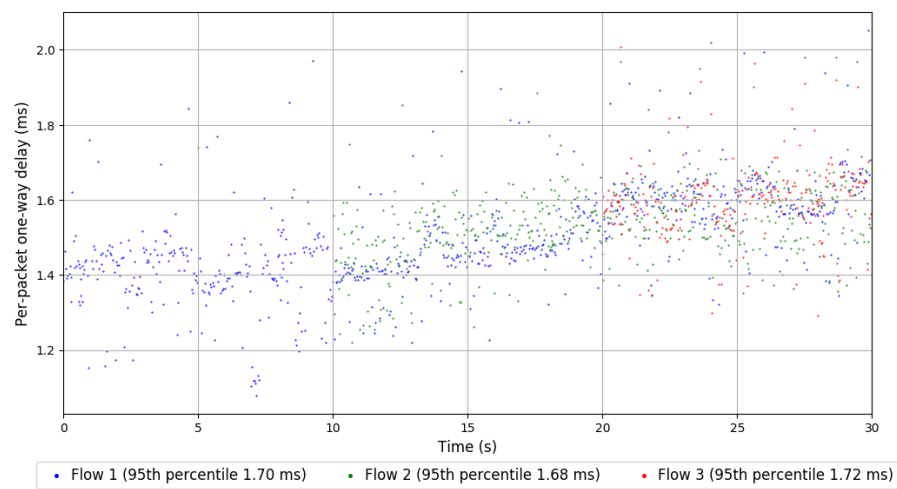
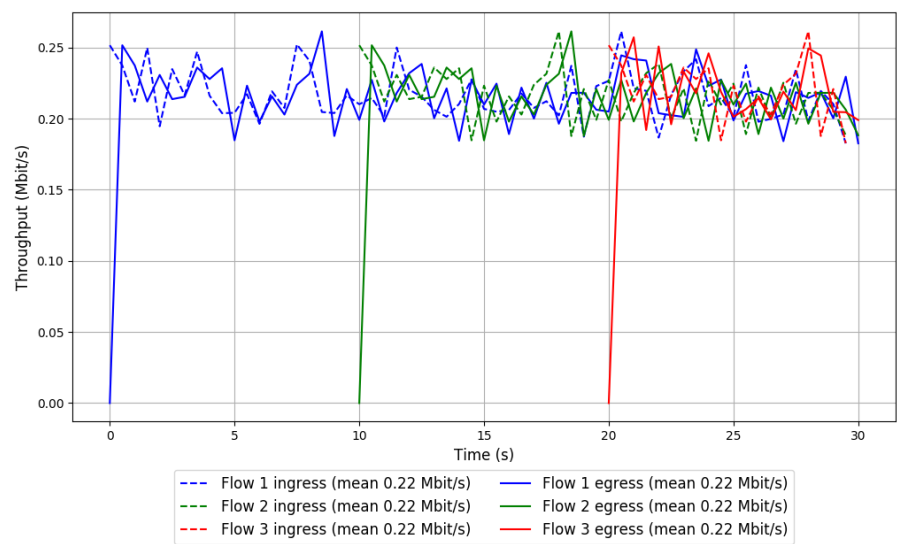
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.720 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

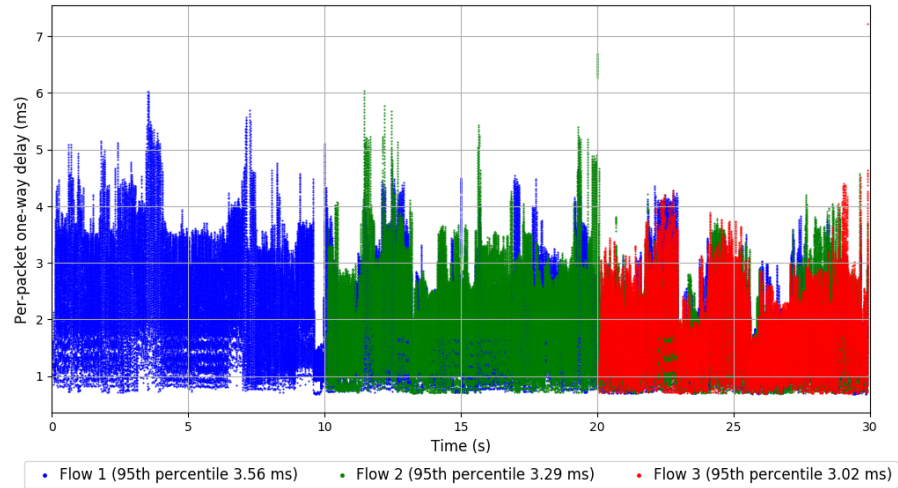
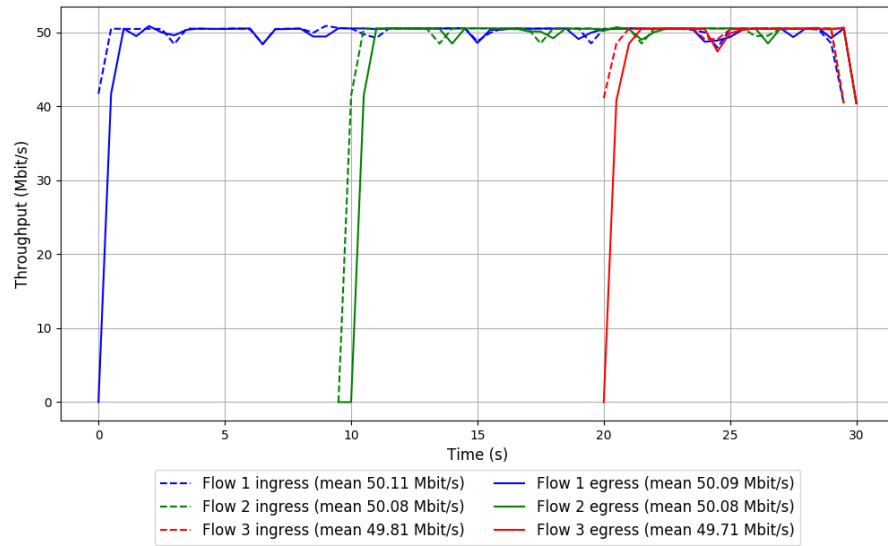


Run 1: Statistics of Sprout

Start at: 2018-11-30 07:34:05
End at: 2018-11-30 07:34:35
Local clock offset: -0.004 ms
Remote clock offset: -0.081 ms

Below is generated by plot.py at 2018-11-30 10:17:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 99.83 Mbit/s
95th percentile per-packet one-way delay: 3.413 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 50.09 Mbit/s
95th percentile per-packet one-way delay: 3.562 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 50.08 Mbit/s
95th percentile per-packet one-way delay: 3.285 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 49.71 Mbit/s
95th percentile per-packet one-way delay: 3.022 ms
Loss rate: 0.13%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-11-30 08:01:20

End at: 2018-11-30 08:01:50

Local clock offset: 3.168 ms

Remote clock offset: 0.449 ms

Below is generated by plot.py at 2018-11-30 10:17:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.59 Mbit/s

95th percentile per-packet one-way delay: 4.270 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 49.98 Mbit/s

95th percentile per-packet one-way delay: 4.293 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 49.90 Mbit/s

95th percentile per-packet one-way delay: 4.280 ms

Loss rate: 0.06%

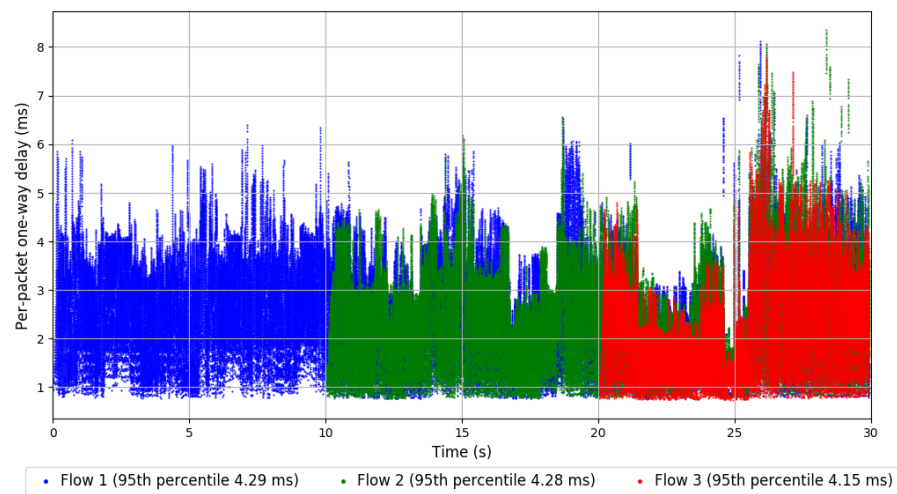
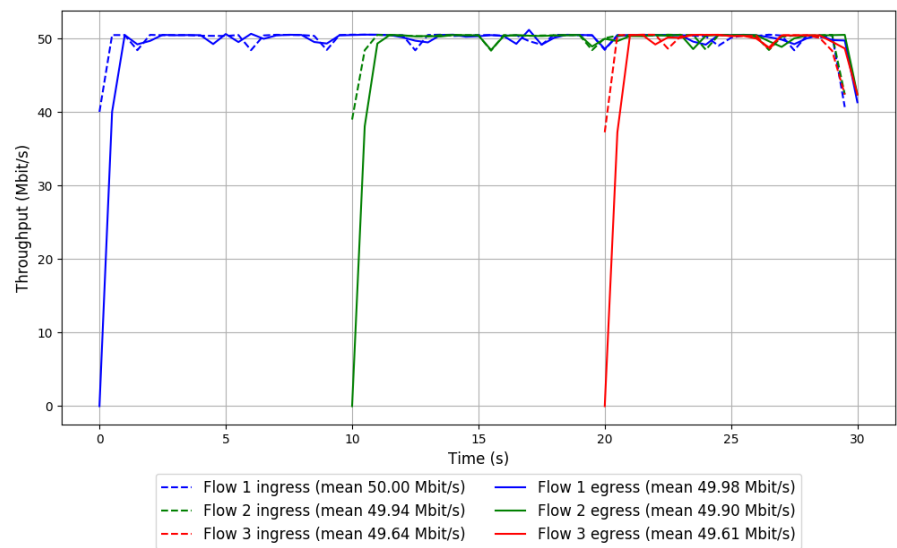
-- Flow 3:

Average throughput: 49.61 Mbit/s

95th percentile per-packet one-way delay: 4.150 ms

Loss rate: 0.04%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-11-30 08:28:24

End at: 2018-11-30 08:28:54

Local clock offset: -2.122 ms

Remote clock offset: 0.068 ms

Below is generated by plot.py at 2018-11-30 10:17:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.56 Mbit/s

95th percentile per-packet one-way delay: 4.643 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 49.97 Mbit/s

95th percentile per-packet one-way delay: 4.701 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 49.79 Mbit/s

95th percentile per-packet one-way delay: 4.723 ms

Loss rate: 0.09%

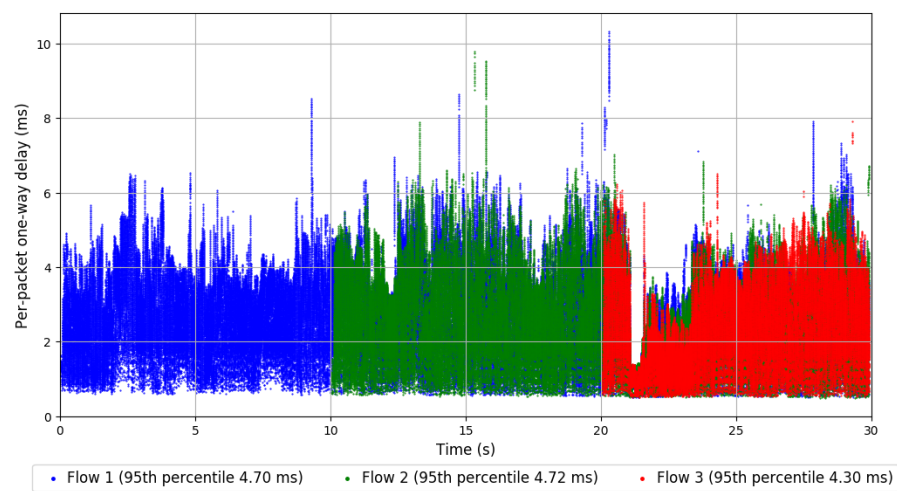
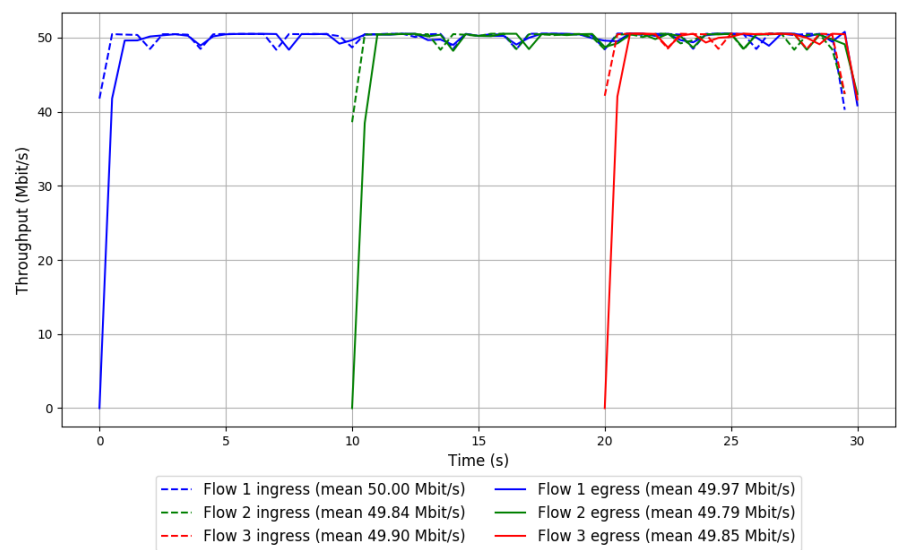
-- Flow 3:

Average throughput: 49.85 Mbit/s

95th percentile per-packet one-way delay: 4.298 ms

Loss rate: 0.08%

Run 3: Report of Sprout — Data Link

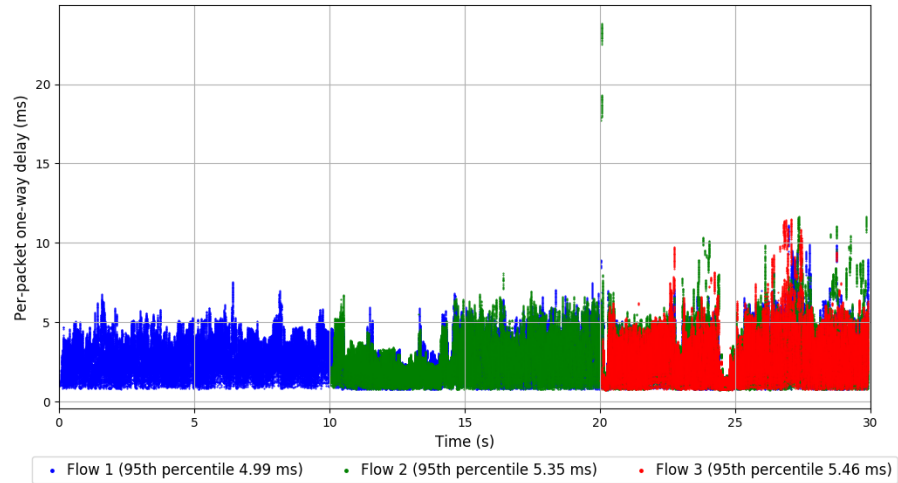
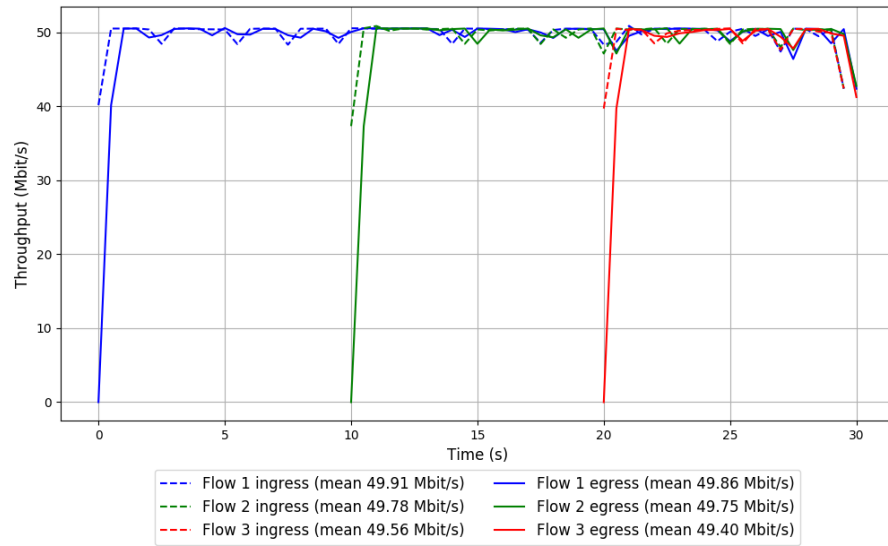


Run 4: Statistics of Sprout

Start at: 2018-11-30 08:55:20
End at: 2018-11-30 08:55:50
Local clock offset: -5.103 ms
Remote clock offset: 0.326 ms

```
# Below is generated by plot.py at 2018-11-30 10:17:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 99.32 Mbit/s
95th percentile per-packet one-way delay: 5.191 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 49.86 Mbit/s
95th percentile per-packet one-way delay: 4.990 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 49.75 Mbit/s
95th percentile per-packet one-way delay: 5.350 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 49.40 Mbit/s
95th percentile per-packet one-way delay: 5.458 ms
Loss rate: 0.29%
```

Run 4: Report of Sprout — Data Link

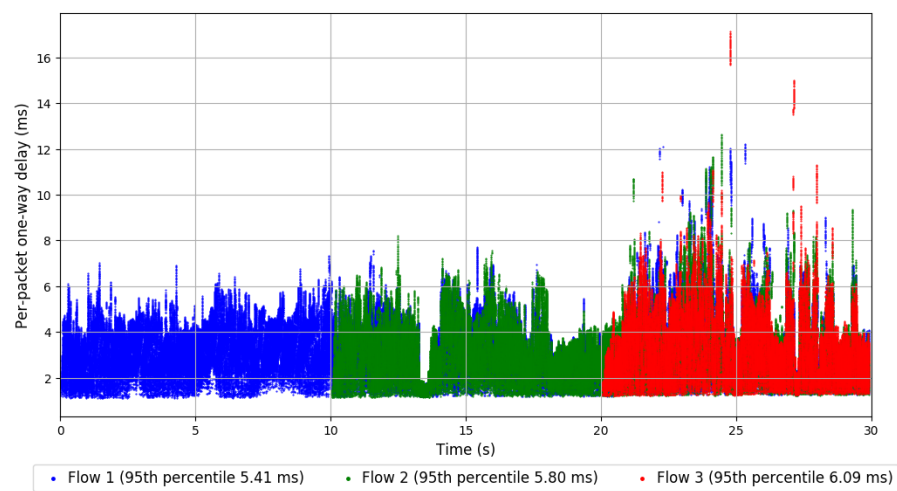
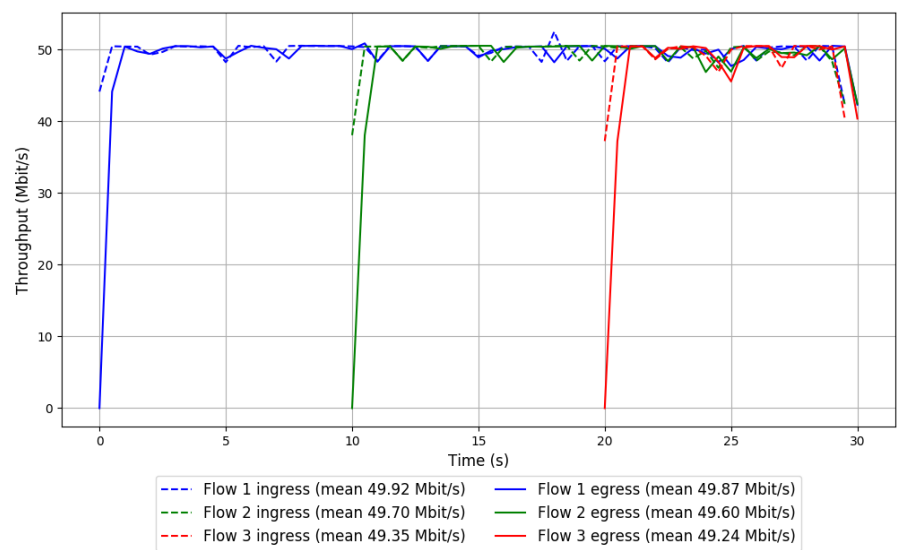


Run 5: Statistics of Sprout

Start at: 2018-11-30 09:22:31
End at: 2018-11-30 09:23:01
Local clock offset: -2.208 ms
Remote clock offset: -0.004 ms

Below is generated by plot.py at 2018-11-30 10:17:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 99.13 Mbit/s
95th percentile per-packet one-way delay: 5.655 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 49.87 Mbit/s
95th percentile per-packet one-way delay: 5.410 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 49.60 Mbit/s
95th percentile per-packet one-way delay: 5.802 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 49.24 Mbit/s
95th percentile per-packet one-way delay: 6.086 ms
Loss rate: 0.21%

Run 5: Report of Sprout — Data Link

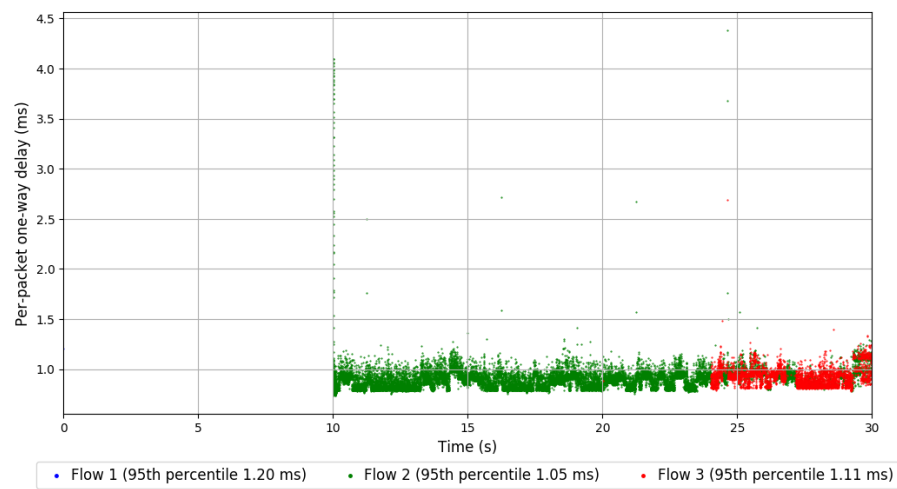
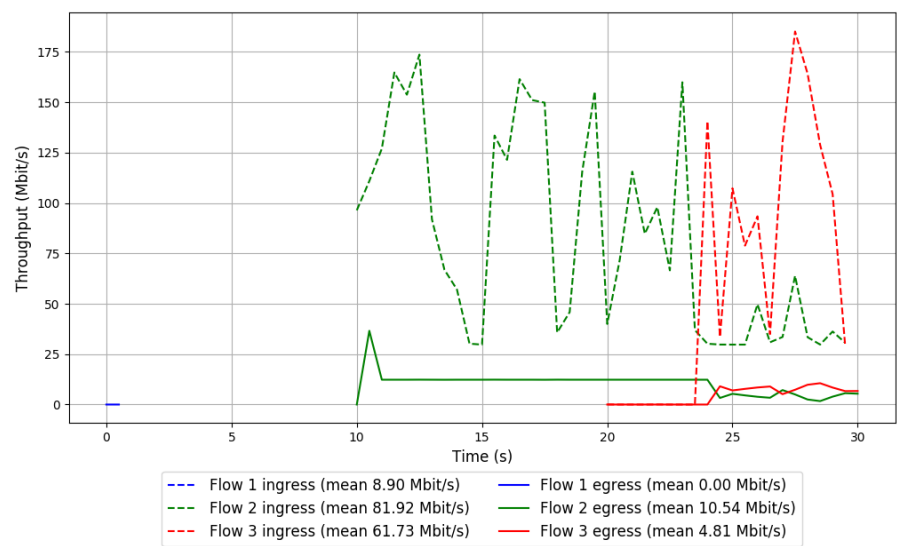


Run 1: Statistics of TaoVA-100x

Start at: 2018-11-30 07:15:52
End at: 2018-11-30 07:16:22
Local clock offset: -0.255 ms
Remote clock offset: -0.359 ms

Below is generated by plot.py at 2018-11-30 10:17:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.62 Mbit/s
95th percentile per-packet one-way delay: 1.062 ms
Loss rate: 88.52%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 1.203 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 10.54 Mbit/s
95th percentile per-packet one-way delay: 1.050 ms
Loss rate: 87.14%
-- Flow 3:
Average throughput: 4.81 Mbit/s
95th percentile per-packet one-way delay: 1.110 ms
Loss rate: 92.21%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-11-30 07:43:03

End at: 2018-11-30 07:43:33

Local clock offset: -0.027 ms

Remote clock offset: 0.093 ms

Below is generated by plot.py at 2018-11-30 10:17:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.51 Mbit/s

95th percentile per-packet one-way delay: 1.090 ms

Loss rate: 64.38%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 0.962 ms

Loss rate: 95.92%

-- Flow 2:

Average throughput: 4.98 Mbit/s

95th percentile per-packet one-way delay: 1.115 ms

Loss rate: 63.53%

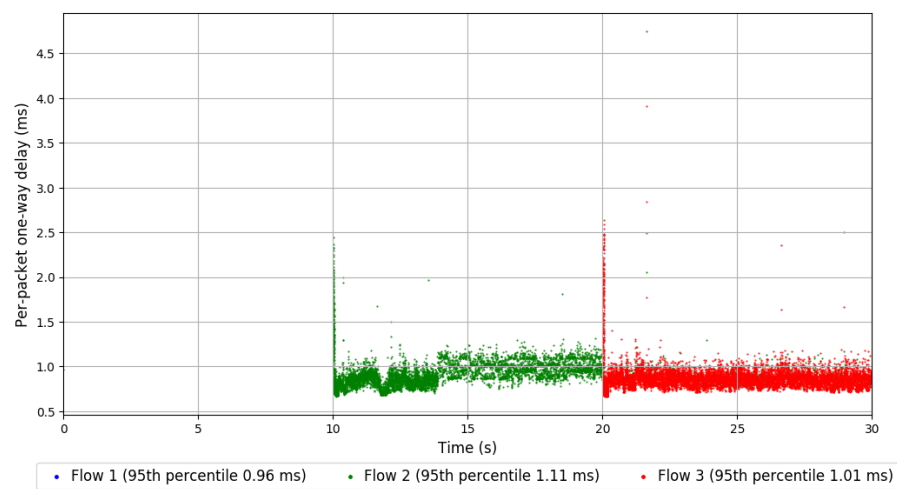
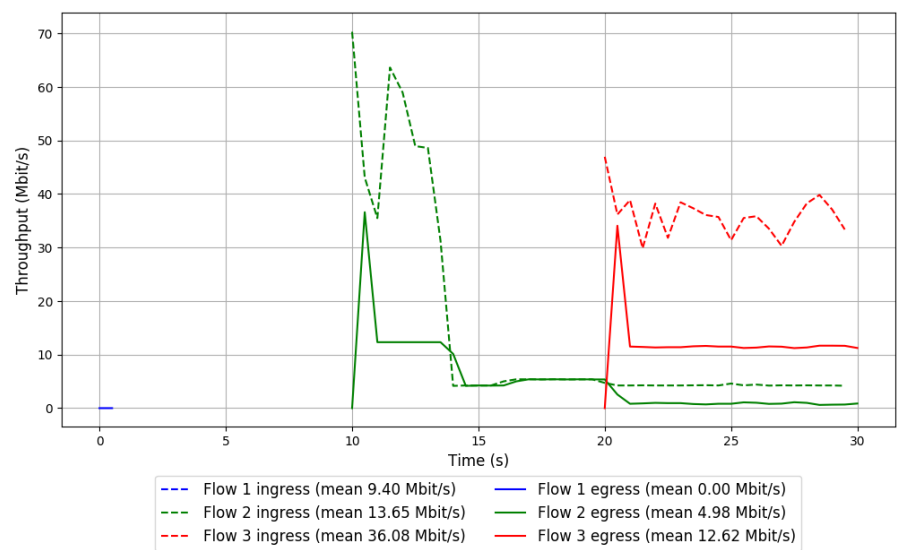
-- Flow 3:

Average throughput: 12.62 Mbit/s

95th percentile per-packet one-way delay: 1.008 ms

Loss rate: 65.03%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-11-30 08:10:18

End at: 2018-11-30 08:10:48

Local clock offset: 3.786 ms

Remote clock offset: 0.249 ms

Below is generated by plot.py at 2018-11-30 10:17:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.06 Mbit/s

95th percentile per-packet one-way delay: 1.167 ms

Loss rate: 61.77%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 1.147 ms

Loss rate: 95.92%

-- Flow 2:

Average throughput: 4.29 Mbit/s

95th percentile per-packet one-way delay: 1.210 ms

Loss rate: 28.89%

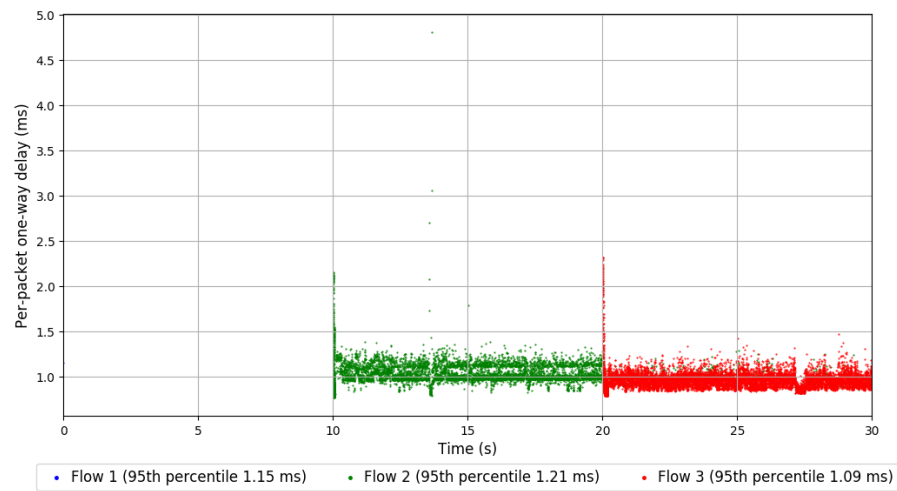
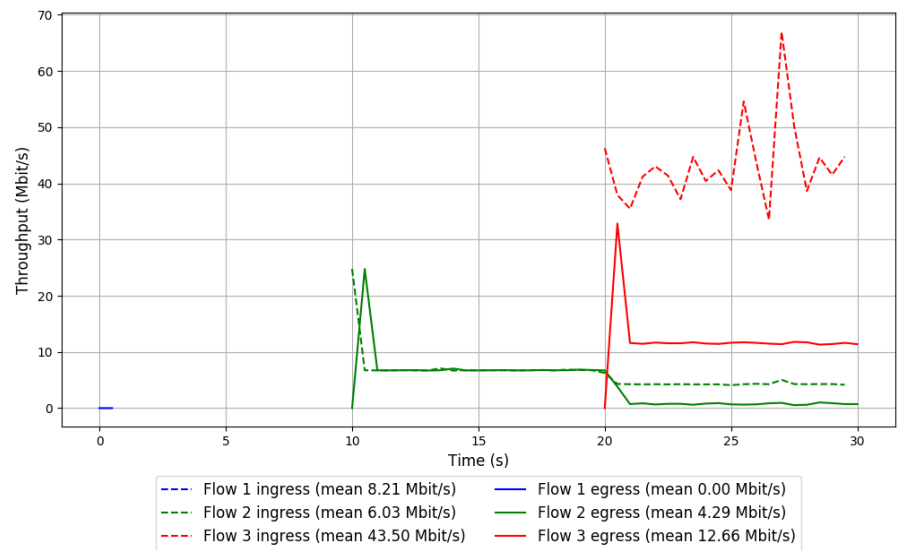
-- Flow 3:

Average throughput: 12.66 Mbit/s

95th percentile per-packet one-way delay: 1.091 ms

Loss rate: 70.90%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-11-30 08:37:21

End at: 2018-11-30 08:37:51

Local clock offset: -3.577 ms

Remote clock offset: 0.099 ms

Below is generated by plot.py at 2018-11-30 10:17:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 0.964 ms

Loss rate: 72.47%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 1.023 ms

Loss rate: 95.92%

-- Flow 2:

Average throughput: 5.27 Mbit/s

95th percentile per-packet one-way delay: 1.006 ms

Loss rate: 68.14%

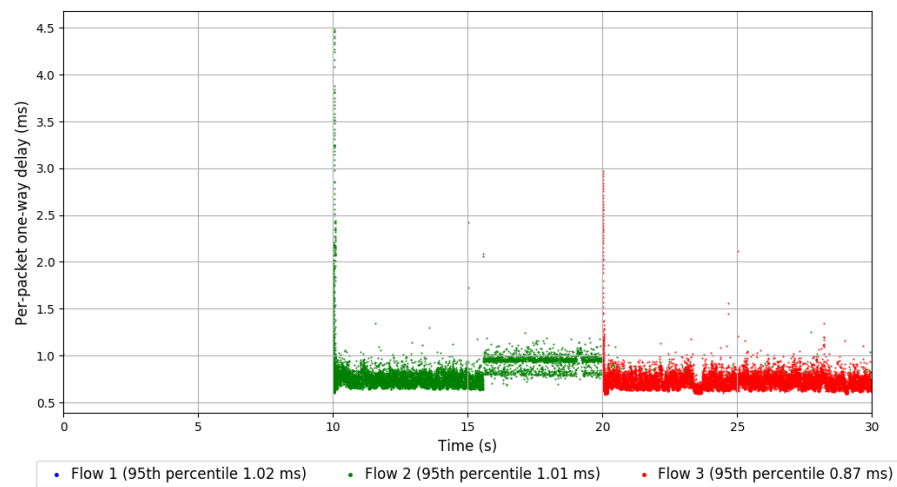
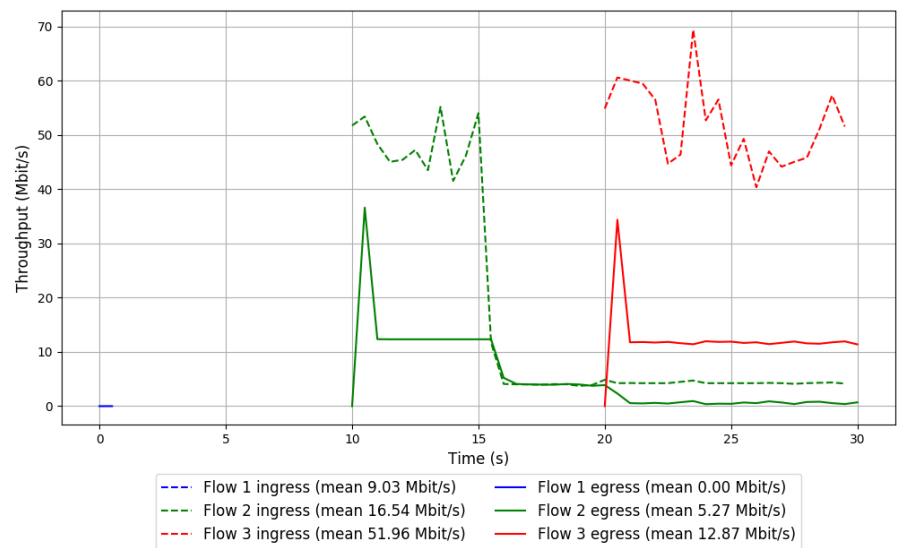
-- Flow 3:

Average throughput: 12.87 Mbit/s

95th percentile per-packet one-way delay: 0.872 ms

Loss rate: 75.23%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-11-30 09:04:17

End at: 2018-11-30 09:04:47

Local clock offset: -5.681 ms

Remote clock offset: 0.316 ms

Below is generated by plot.py at 2018-11-30 10:17:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.82 Mbit/s

95th percentile per-packet one-way delay: 1.052 ms

Loss rate: 68.73%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 0.971 ms

Loss rate: 95.92%

-- Flow 2:

Average throughput: 3.87 Mbit/s

95th percentile per-packet one-way delay: 1.107 ms

Loss rate: 32.22%

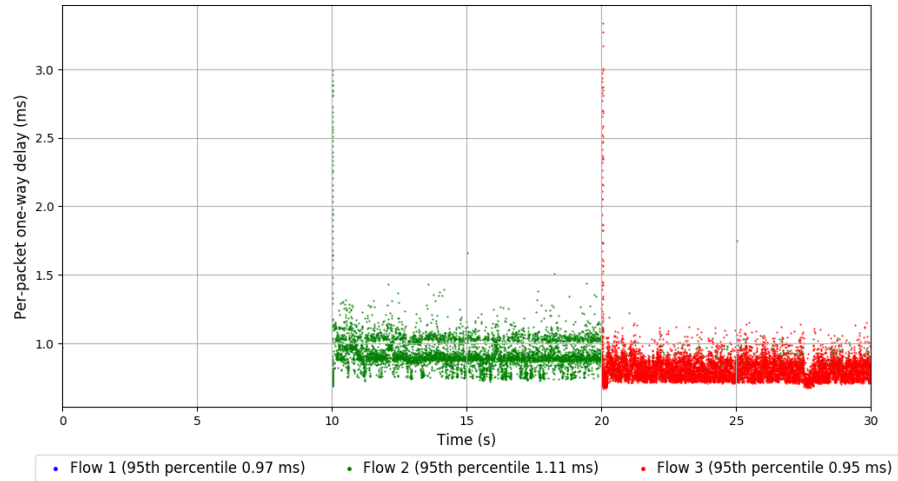
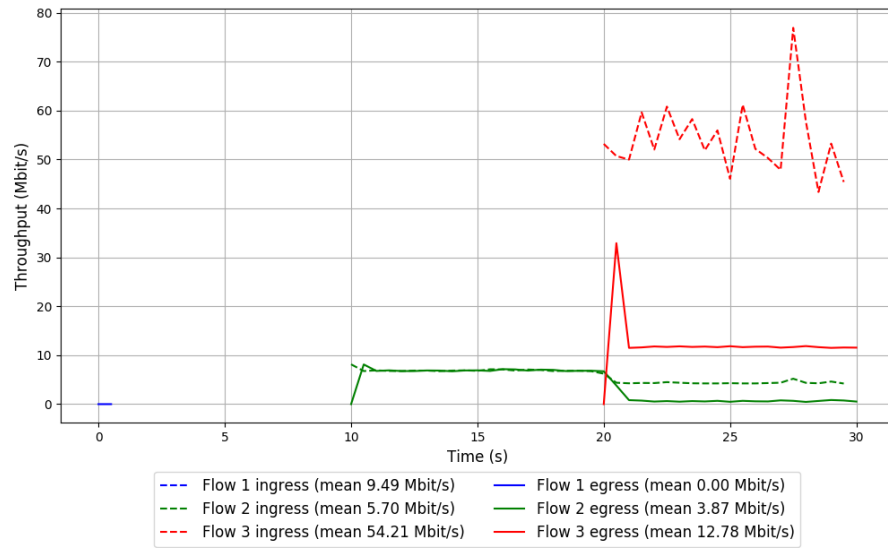
-- Flow 3:

Average throughput: 12.78 Mbit/s

95th percentile per-packet one-way delay: 0.948 ms

Loss rate: 76.43%

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

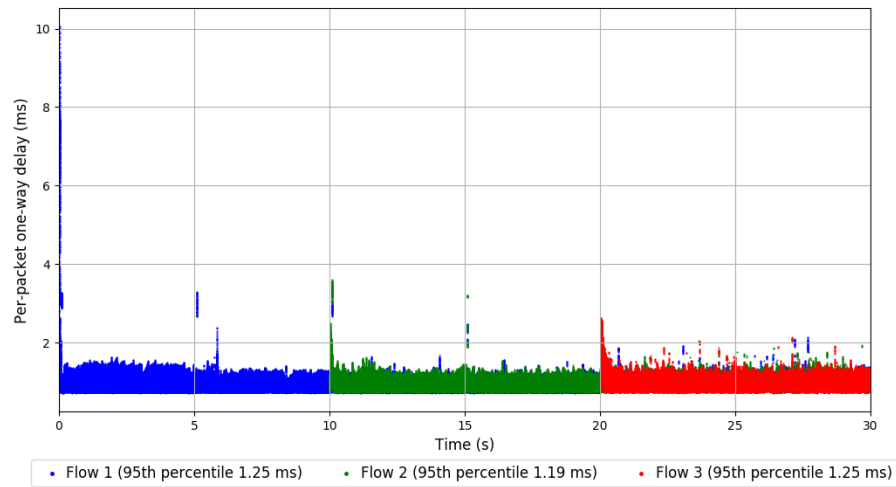
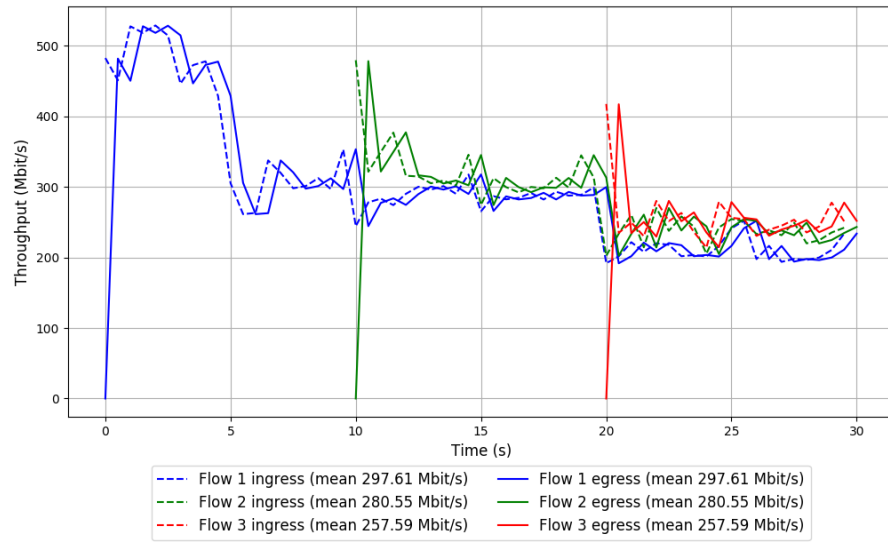


Run 1: Statistics of TCP Vegas

Start at: 2018-11-30 07:17:07
End at: 2018-11-30 07:17:37
Local clock offset: -0.204 ms
Remote clock offset: -0.355 ms

Below is generated by plot.py at 2018-11-30 10:22:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 570.23 Mbit/s
95th percentile per-packet one-way delay: 1.230 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 297.61 Mbit/s
95th percentile per-packet one-way delay: 1.246 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 280.55 Mbit/s
95th percentile per-packet one-way delay: 1.187 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 257.59 Mbit/s
95th percentile per-packet one-way delay: 1.246 ms
Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-11-30 07:44:17

End at: 2018-11-30 07:44:47

Local clock offset: -0.023 ms

Remote clock offset: 0.142 ms

Below is generated by plot.py at 2018-11-30 10:22:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 487.38 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 172.21 Mbit/s

95th percentile per-packet one-way delay: 1.154 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 314.69 Mbit/s

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

Loss rate: 0.00%

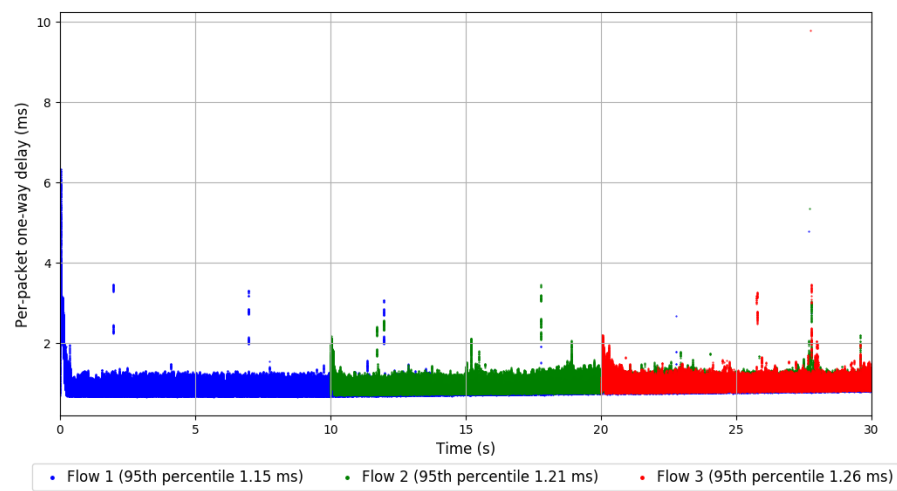
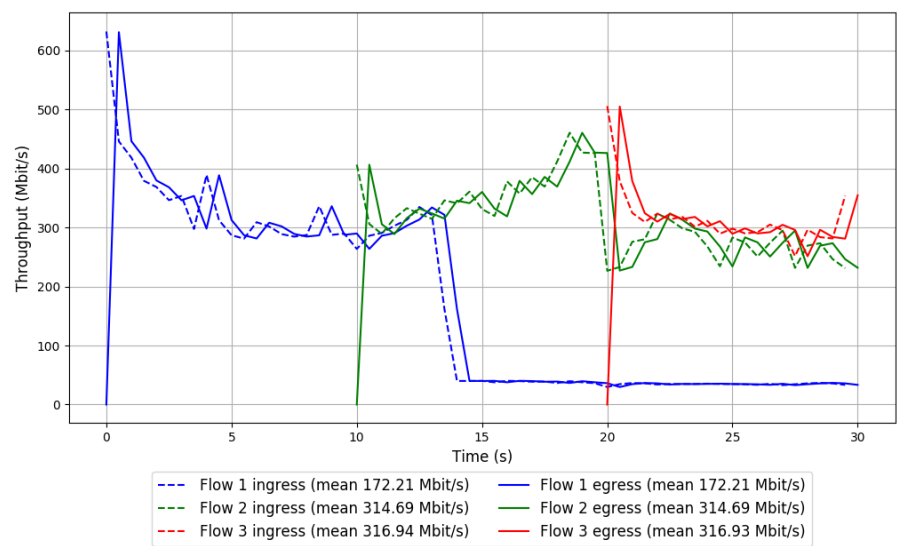
-- Flow 3:

Average throughput: 316.93 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-11-30 08:11:32

End at: 2018-11-30 08:12:02

Local clock offset: 3.841 ms

Remote clock offset: 0.247 ms

Below is generated by plot.py at 2018-11-30 10:22:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 410.43 Mbit/s

95th percentile per-packet one-way delay: 1.296 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 72.56 Mbit/s

95th percentile per-packet one-way delay: 1.244 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 356.01 Mbit/s

95th percentile per-packet one-way delay: 1.295 ms

Loss rate: 0.01%

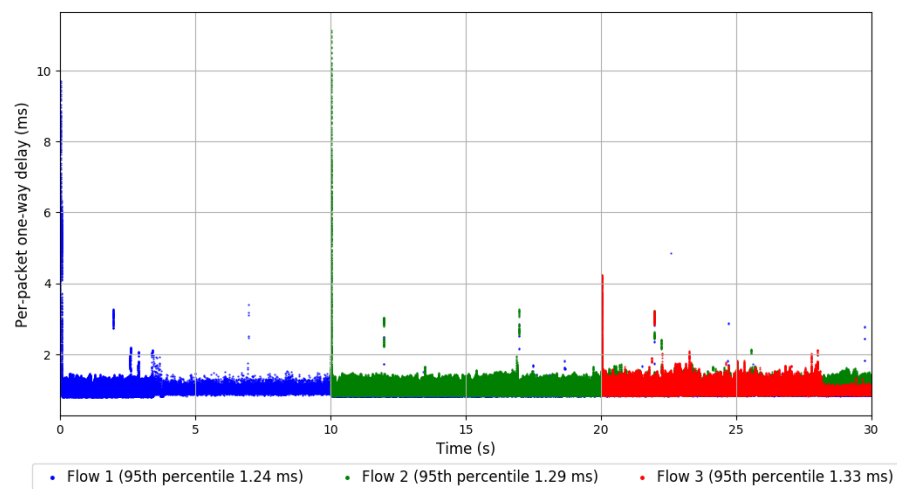
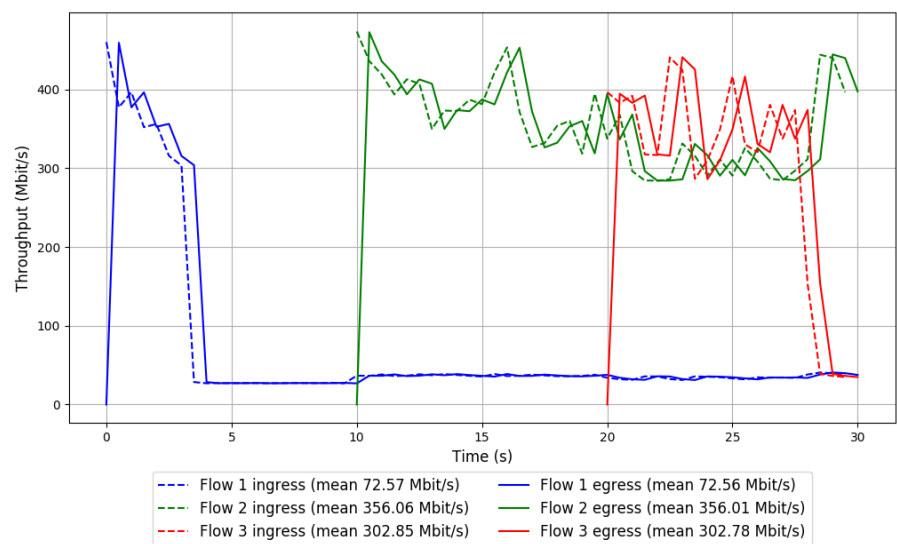
-- Flow 3:

Average throughput: 302.78 Mbit/s

95th percentile per-packet one-way delay: 1.326 ms

Loss rate: 0.02%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-11-30 08:38:36

End at: 2018-11-30 08:39:06

Local clock offset: -3.742 ms

Remote clock offset: 0.16 ms

Below is generated by plot.py at 2018-11-30 10:22:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 260.14 Mbit/s

95th percentile per-packet one-way delay: 1.146 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 73.72 Mbit/s

95th percentile per-packet one-way delay: 1.165 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 61.32 Mbit/s

95th percentile per-packet one-way delay: 1.074 ms

Loss rate: 0.00%

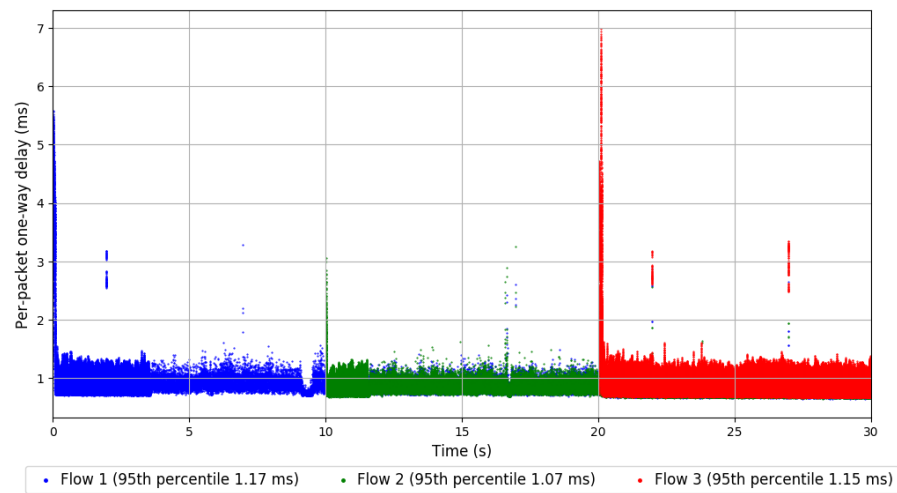
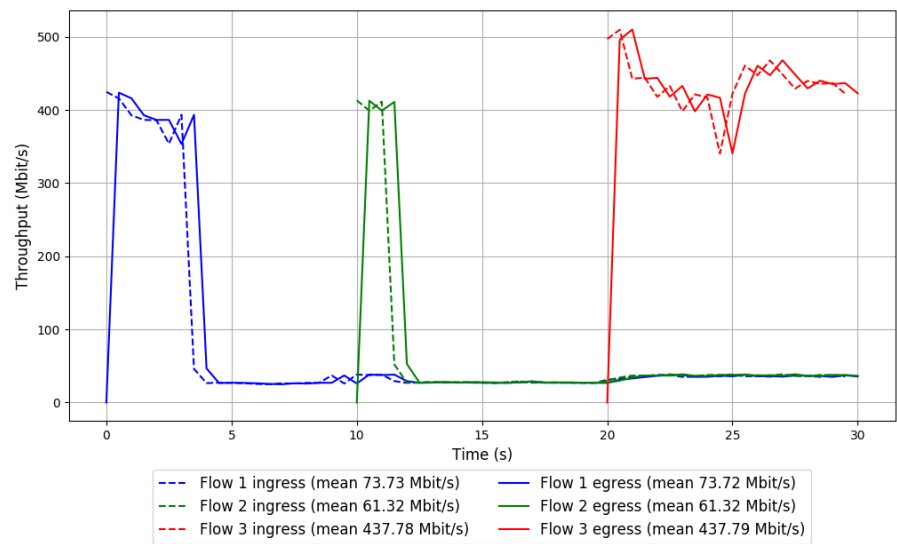
-- Flow 3:

Average throughput: 437.79 Mbit/s

95th percentile per-packet one-way delay: 1.148 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-11-30 09:05:31

End at: 2018-11-30 09:06:01

Local clock offset: -5.753 ms

Remote clock offset: 0.301 ms

Below is generated by plot.py at 2018-11-30 10:23:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 576.75 Mbit/s

95th percentile per-packet one-way delay: 1.137 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 290.32 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 288.42 Mbit/s

95th percentile per-packet one-way delay: 1.110 ms

Loss rate: 0.01%

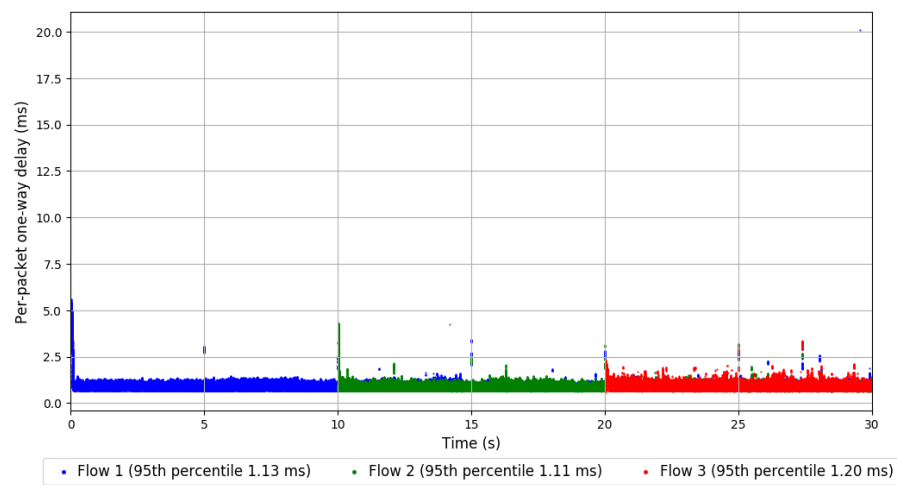
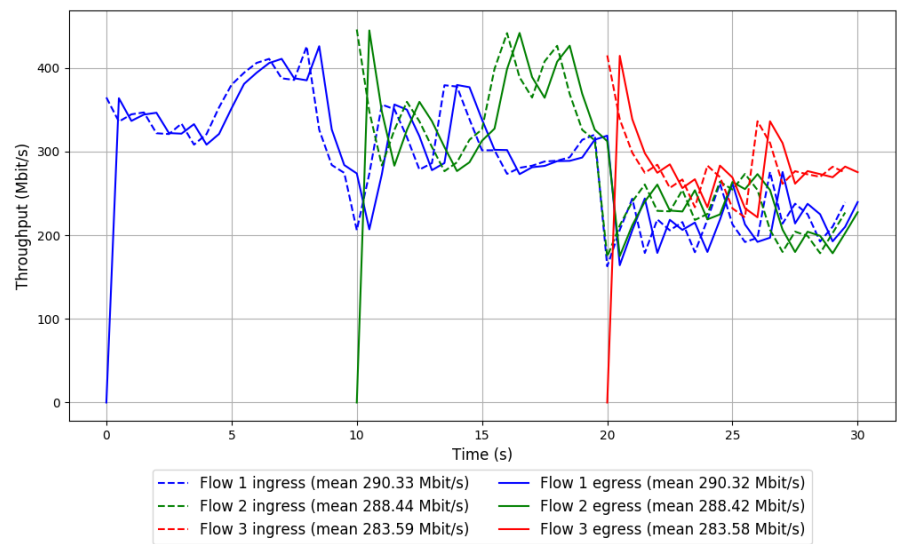
-- Flow 3:

Average throughput: 283.58 Mbit/s

95th percentile per-packet one-way delay: 1.196 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link

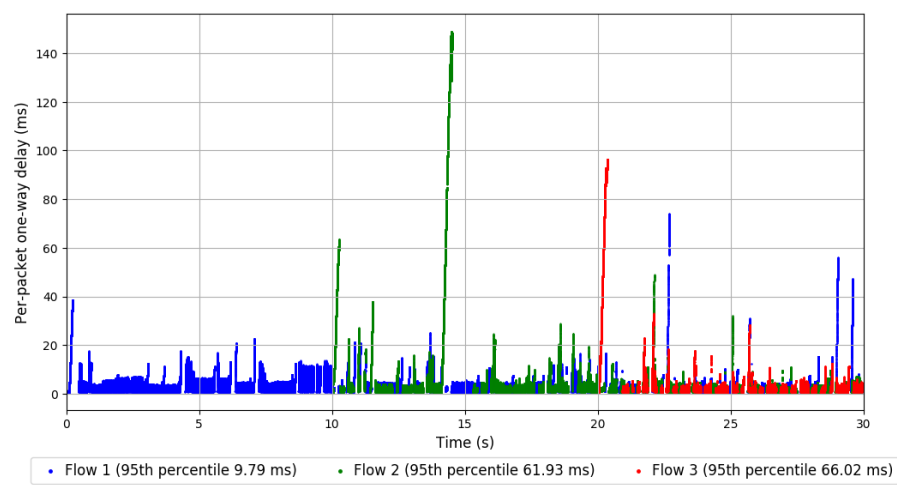
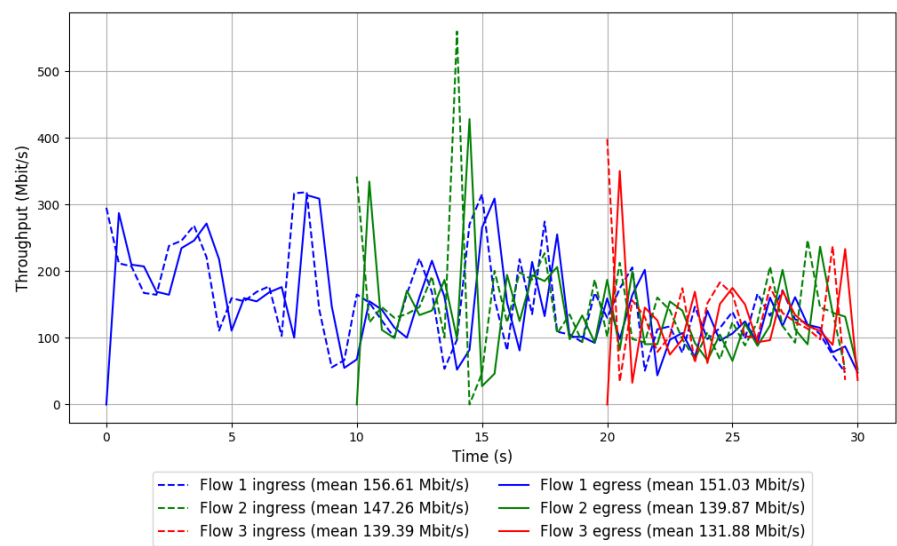


Run 1: Statistics of Verus

Start at: 2018-11-30 07:31:24
End at: 2018-11-30 07:31:54
Local clock offset: -0.005 ms
Remote clock offset: -0.058 ms

Below is generated by plot.py at 2018-11-30 10:23:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 287.74 Mbit/s
95th percentile per-packet one-way delay: 27.511 ms
Loss rate: 4.31%
-- Flow 1:
Average throughput: 151.03 Mbit/s
95th percentile per-packet one-way delay: 9.792 ms
Loss rate: 3.55%
-- Flow 2:
Average throughput: 139.87 Mbit/s
95th percentile per-packet one-way delay: 61.934 ms
Loss rate: 5.00%
-- Flow 3:
Average throughput: 131.88 Mbit/s
95th percentile per-packet one-way delay: 66.022 ms
Loss rate: 5.39%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-11-30 07:58:39

End at: 2018-11-30 07:59:09

Local clock offset: 2.879 ms

Remote clock offset: 0.507 ms

Below is generated by plot.py at 2018-11-30 10:23:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 291.58 Mbit/s

95th percentile per-packet one-way delay: 13.704 ms

Loss rate: 2.92%

-- Flow 1:

Average throughput: 150.78 Mbit/s

95th percentile per-packet one-way delay: 11.813 ms

Loss rate: 2.00%

-- Flow 2:

Average throughput: 148.46 Mbit/s

95th percentile per-packet one-way delay: 13.671 ms

Loss rate: 3.72%

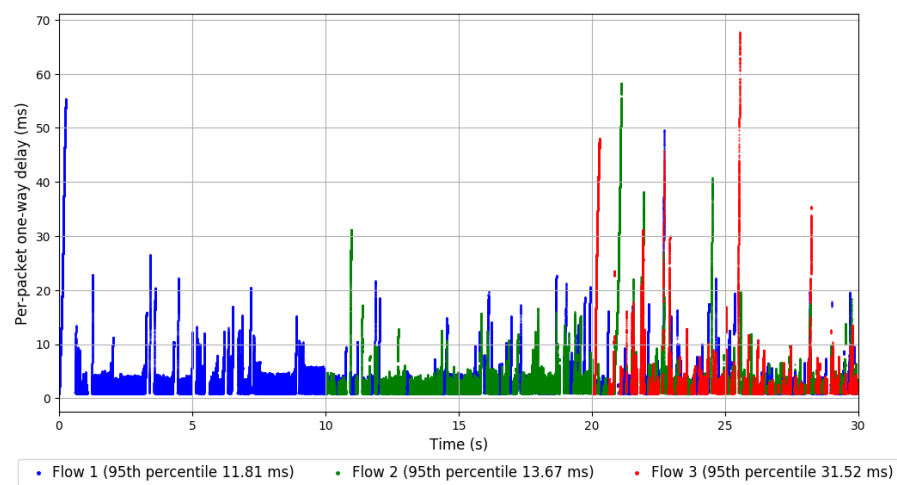
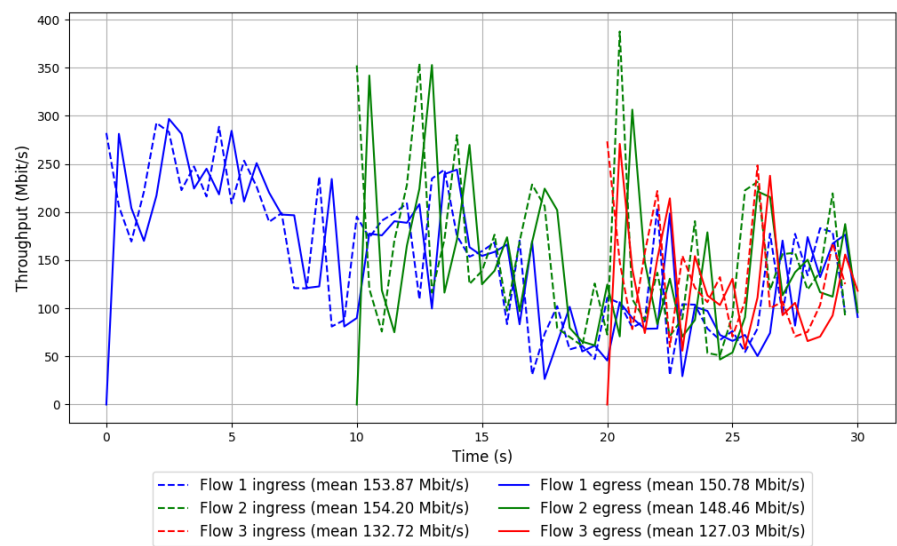
-- Flow 3:

Average throughput: 127.03 Mbit/s

95th percentile per-packet one-way delay: 31.515 ms

Loss rate: 4.27%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-11-30 08:25:45

End at: 2018-11-30 08:26:15

Local clock offset: -1.434 ms

Remote clock offset: 0.168 ms

Below is generated by plot.py at 2018-11-30 10:23:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 242.88 Mbit/s

95th percentile per-packet one-way delay: 39.981 ms

Loss rate: 6.86%

-- Flow 1:

Average throughput: 123.72 Mbit/s

95th percentile per-packet one-way delay: 45.256 ms

Loss rate: 8.72%

-- Flow 2:

Average throughput: 123.37 Mbit/s

95th percentile per-packet one-way delay: 13.050 ms

Loss rate: 4.63%

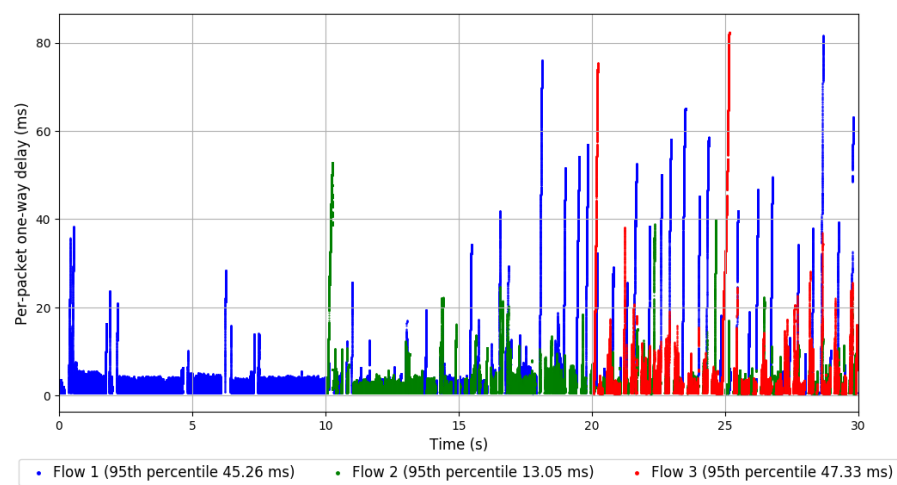
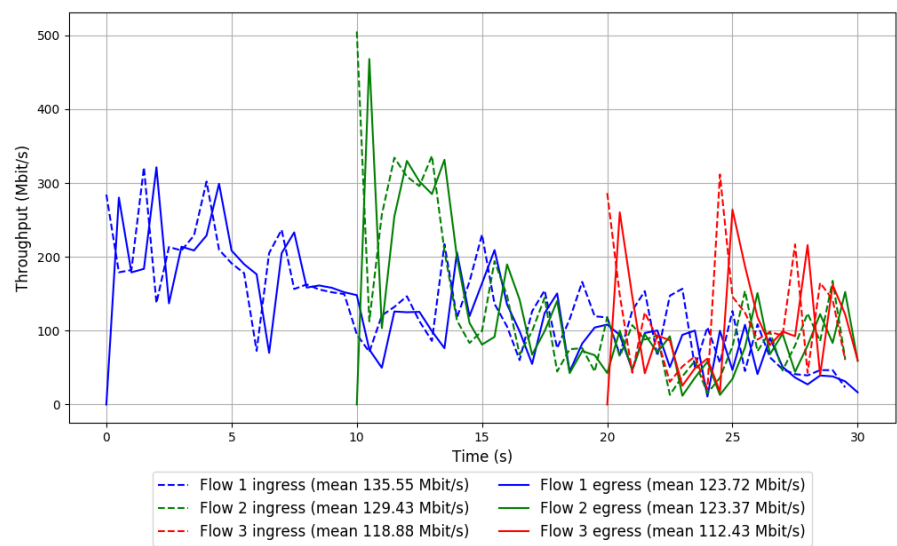
-- Flow 3:

Average throughput: 112.43 Mbit/s

95th percentile per-packet one-way delay: 47.332 ms

Loss rate: 5.28%

Run 3: Report of Verus — Data Link

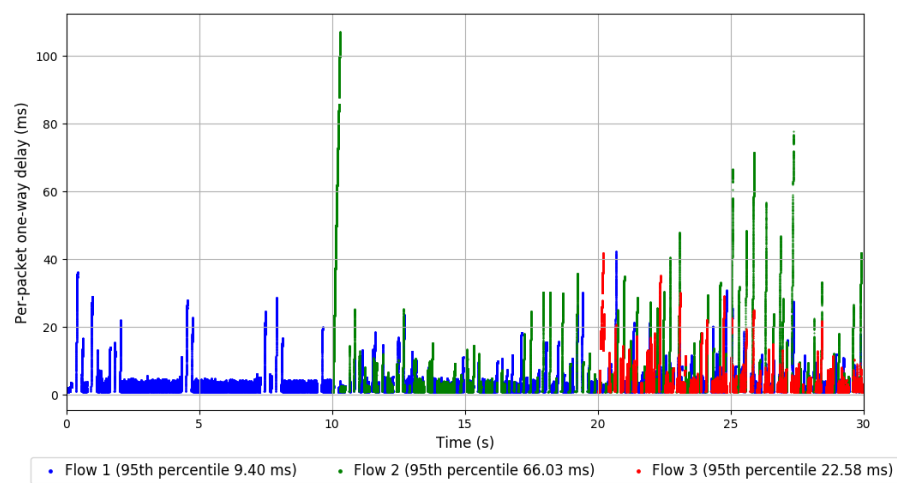
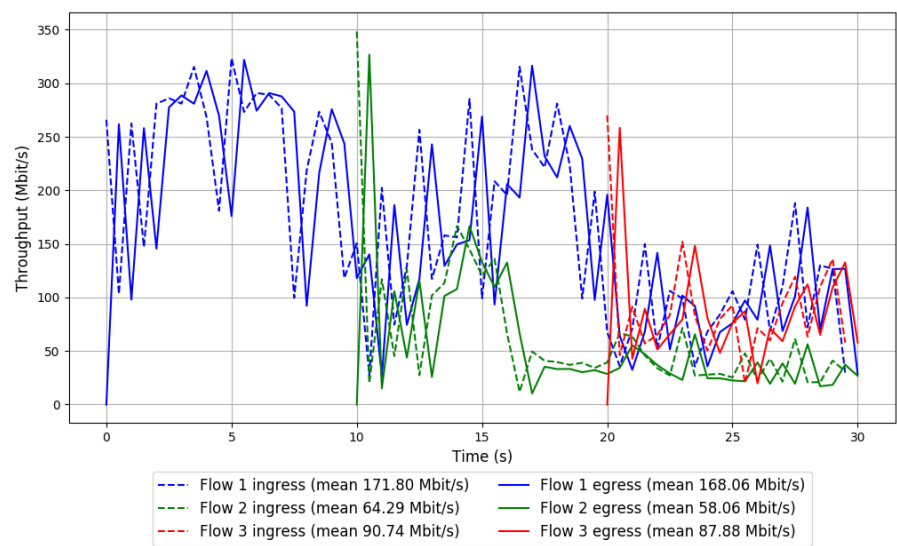


Run 4: Statistics of Verus

Start at: 2018-11-30 08:52:42
End at: 2018-11-30 08:53:12
Local clock offset: -4.901 ms
Remote clock offset: 0.346 ms

Below is generated by plot.py at 2018-11-30 10:23:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 235.46 Mbit/s
95th percentile per-packet one-way delay: 19.583 ms
Loss rate: 3.55%
-- Flow 1:
Average throughput: 168.06 Mbit/s
95th percentile per-packet one-way delay: 9.398 ms
Loss rate: 2.13%
-- Flow 2:
Average throughput: 58.06 Mbit/s
95th percentile per-packet one-way delay: 66.035 ms
Loss rate: 9.52%
-- Flow 3:
Average throughput: 87.88 Mbit/s
95th percentile per-packet one-way delay: 22.576 ms
Loss rate: 3.15%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-11-30 09:19:52

End at: 2018-11-30 09:20:22

Local clock offset: -3.354 ms

Remote clock offset: 0.097 ms

Below is generated by plot.py at 2018-11-30 10:23:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 274.30 Mbit/s

95th percentile per-packet one-way delay: 34.023 ms

Loss rate: 3.50%

-- Flow 1:

Average throughput: 139.96 Mbit/s

95th percentile per-packet one-way delay: 11.991 ms

Loss rate: 3.18%

-- Flow 2:

Average throughput: 123.43 Mbit/s

95th percentile per-packet one-way delay: 23.968 ms

Loss rate: 3.75%

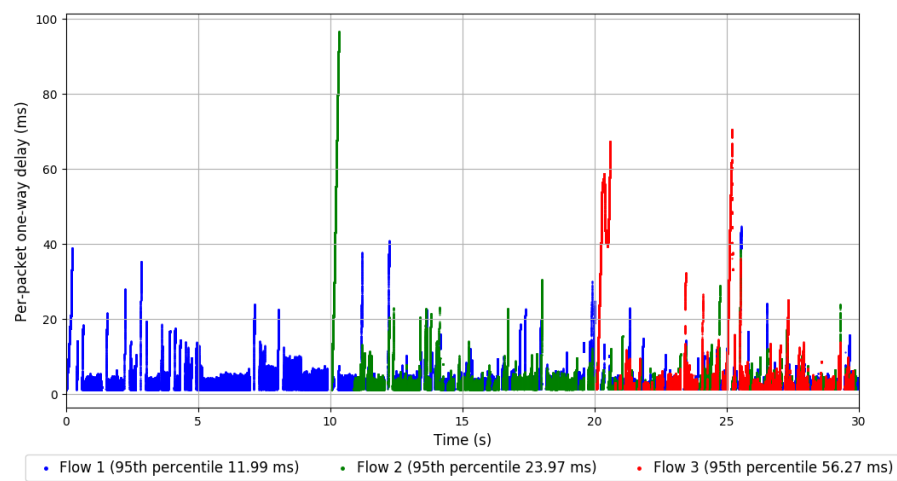
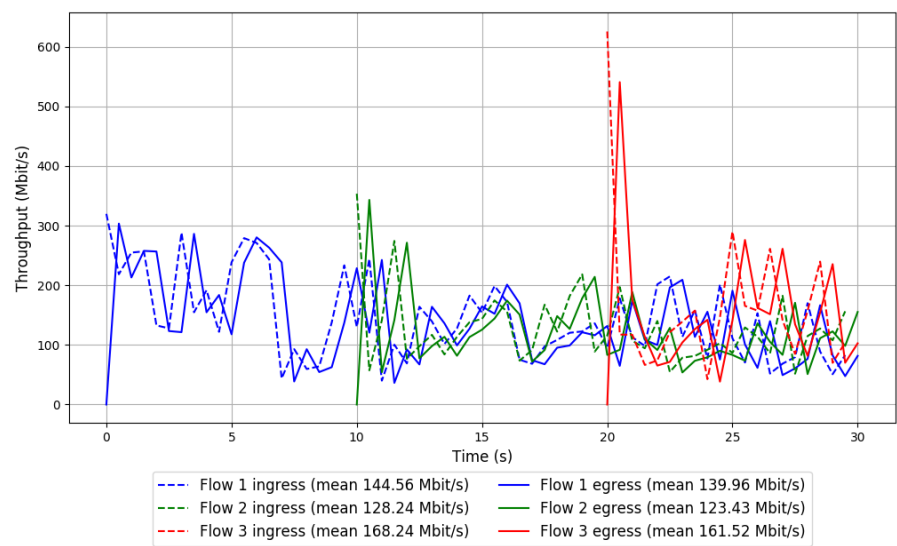
-- Flow 3:

Average throughput: 161.52 Mbit/s

95th percentile per-packet one-way delay: 56.265 ms

Loss rate: 3.95%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-11-30 07:38:48

End at: 2018-11-30 07:39:18

Local clock offset: 0.005 ms

Remote clock offset: 0.118 ms

Below is generated by plot.py at 2018-11-30 10:23:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 360.53 Mbit/s

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

Loss rate: 0.03%

-- Flow 1:

Average throughput: 207.70 Mbit/s

95th percentile per-packet one-way delay: 1.512 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 186.21 Mbit/s

95th percentile per-packet one-way delay: 1.091 ms

Loss rate: 0.02%

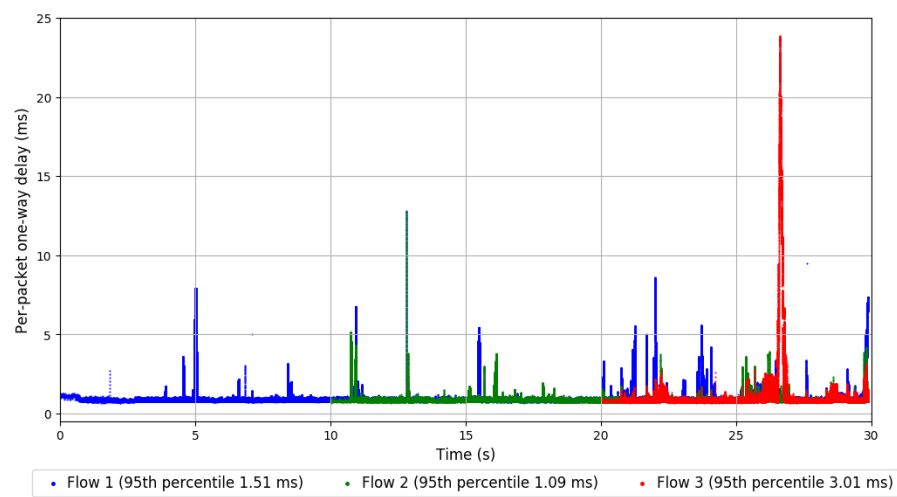
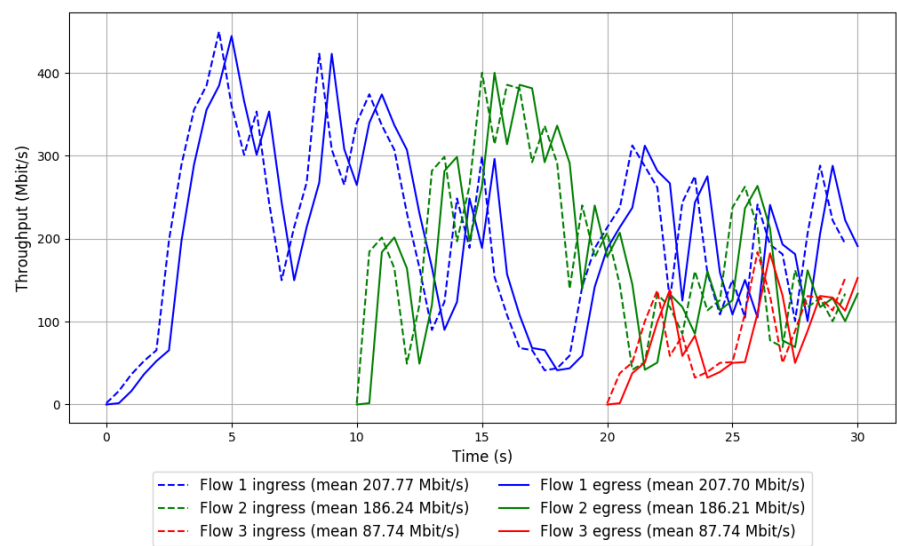
-- Flow 3:

Average throughput: 87.74 Mbit/s

95th percentile per-packet one-way delay: 3.008 ms

Loss rate: 0.07%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-11-30 08:06:02

End at: 2018-11-30 08:06:32

Local clock offset: 3.525 ms

Remote clock offset: 0.434 ms

Below is generated by plot.py at 2018-11-30 10:24:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 384.67 Mbit/s

95th percentile per-packet one-way delay: 1.609 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 189.79 Mbit/s

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

Loss rate: 0.01%

-- Flow 2:

Average throughput: 193.52 Mbit/s

95th percentile per-packet one-way delay: 1.531 ms

Loss rate: 0.03%

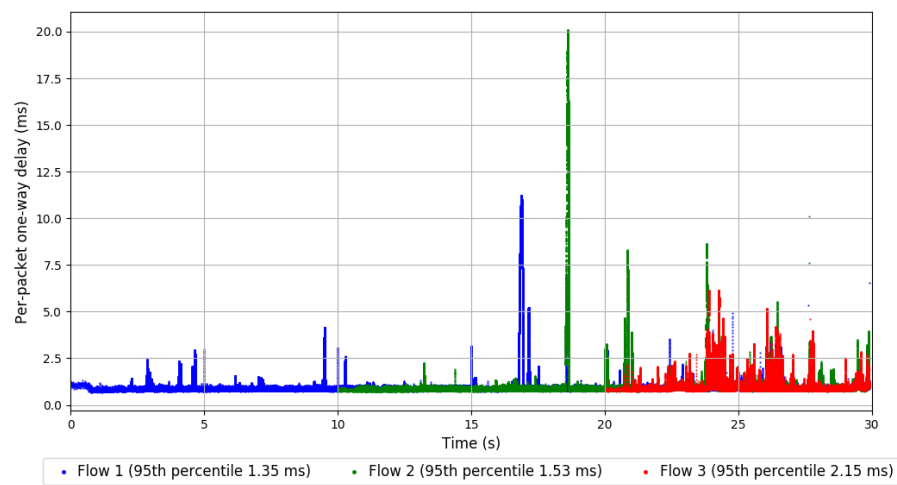
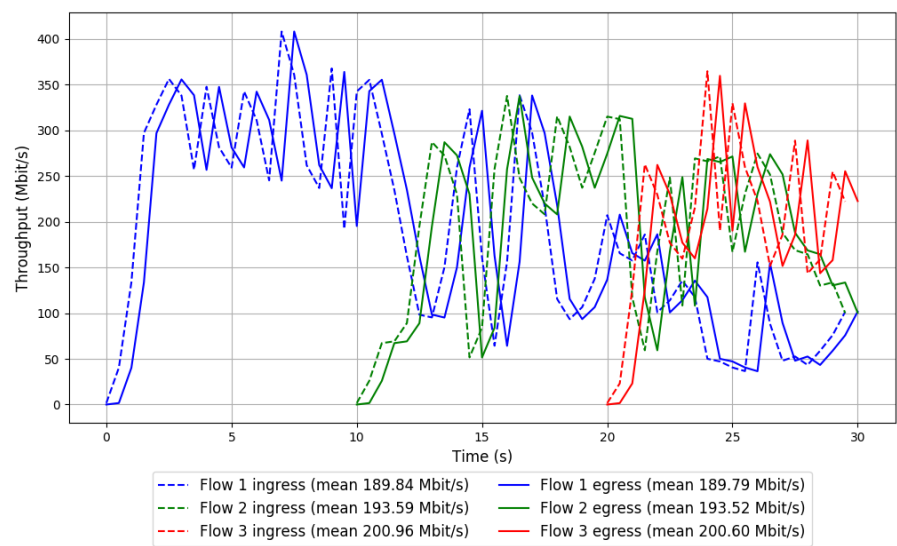
-- Flow 3:

Average throughput: 200.60 Mbit/s

95th percentile per-packet one-way delay: 2.148 ms

Loss rate: 0.18%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-11-30 08:33:04

End at: 2018-11-30 08:33:34

Local clock offset: -3.021 ms

Remote clock offset: 0.055 ms

Below is generated by plot.py at 2018-11-30 10:24:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 405.48 Mbit/s

95th percentile per-packet one-way delay: 5.269 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 252.94 Mbit/s

95th percentile per-packet one-way delay: 1.860 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 136.36 Mbit/s

95th percentile per-packet one-way delay: 1.067 ms

Loss rate: 0.06%

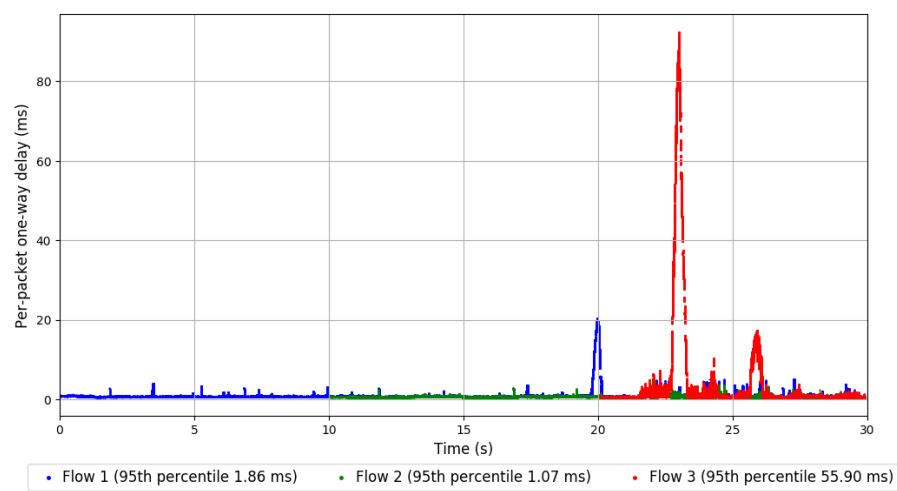
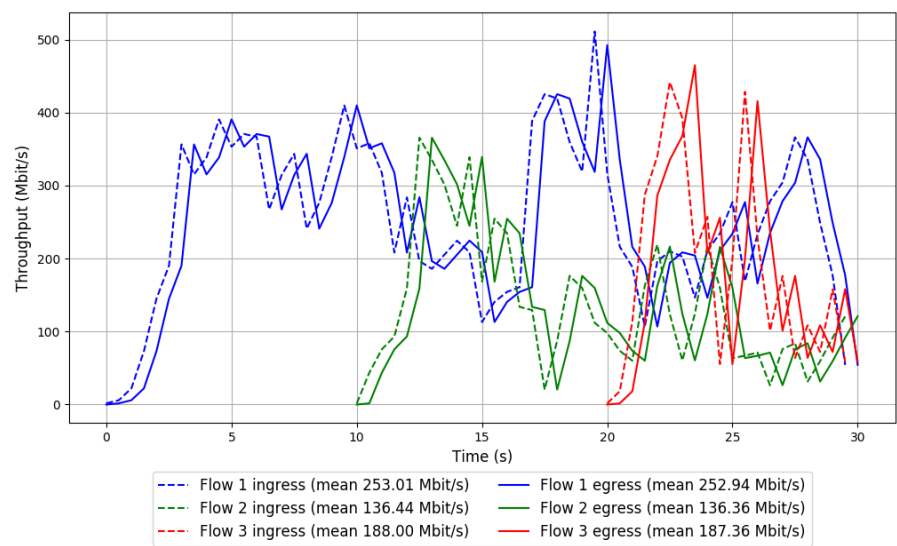
-- Flow 3:

Average throughput: 187.36 Mbit/s

95th percentile per-packet one-way delay: 55.900 ms

Loss rate: 0.34%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-11-30 08:59:59

End at: 2018-11-30 09:00:30

Local clock offset: -5.391 ms

Remote clock offset: 0.272 ms

Below is generated by plot.py at 2018-11-30 10:24:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 411.79 Mbit/s

95th percentile per-packet one-way delay: 79.374 ms

Loss rate: 1.54%

-- Flow 1:

Average throughput: 209.49 Mbit/s

95th percentile per-packet one-way delay: 1.055 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 192.99 Mbit/s

95th percentile per-packet one-way delay: 6.703 ms

Loss rate: 0.12%

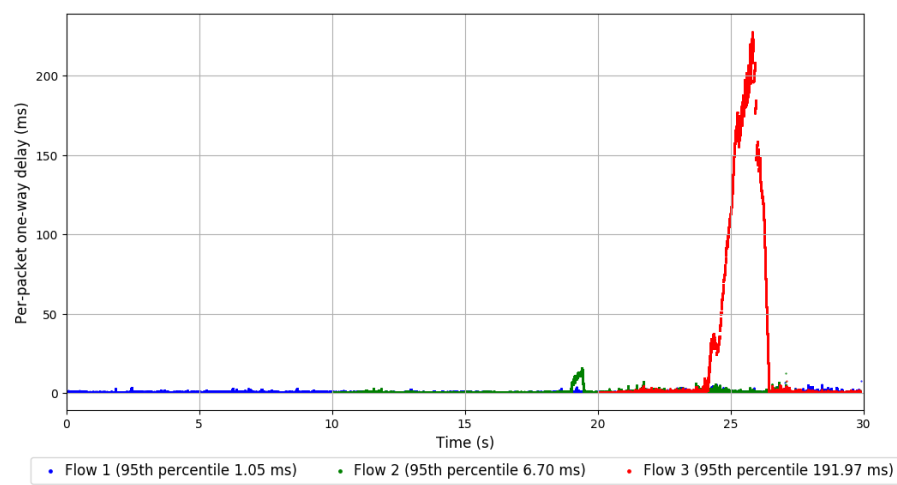
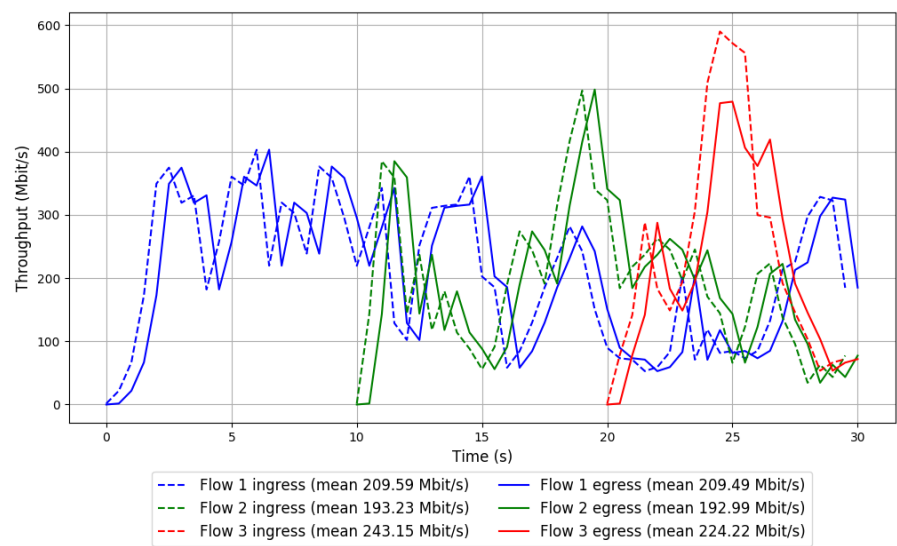
-- Flow 3:

Average throughput: 224.22 Mbit/s

95th percentile per-packet one-way delay: 191.967 ms

Loss rate: 7.78%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-11-30 09:27:10

End at: 2018-11-30 09:27:40

Local clock offset: -0.763 ms

Remote clock offset: -0.2 ms

Below is generated by plot.py at 2018-11-30 10:24:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 409.61 Mbit/s

95th percentile per-packet one-way delay: 127.430 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 259.42 Mbit/s

95th percentile per-packet one-way delay: 127.156 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 149.53 Mbit/s

95th percentile per-packet one-way delay: 1.275 ms

Loss rate: 0.00%

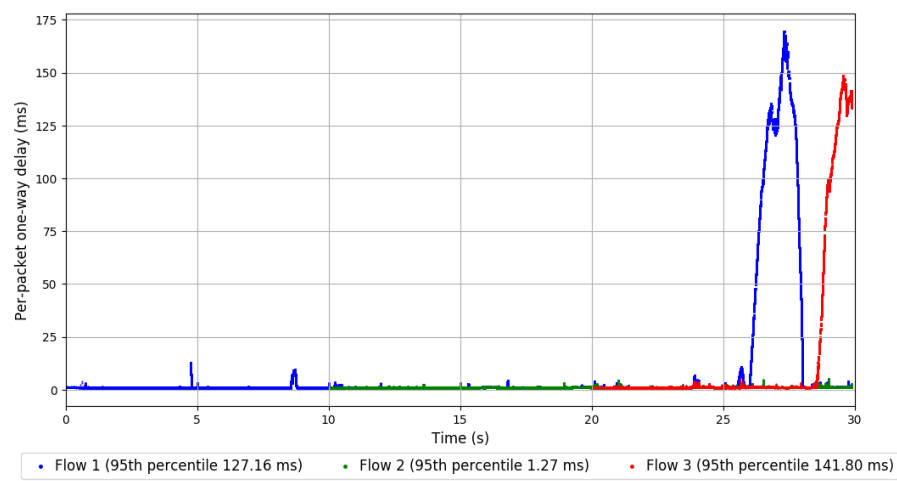
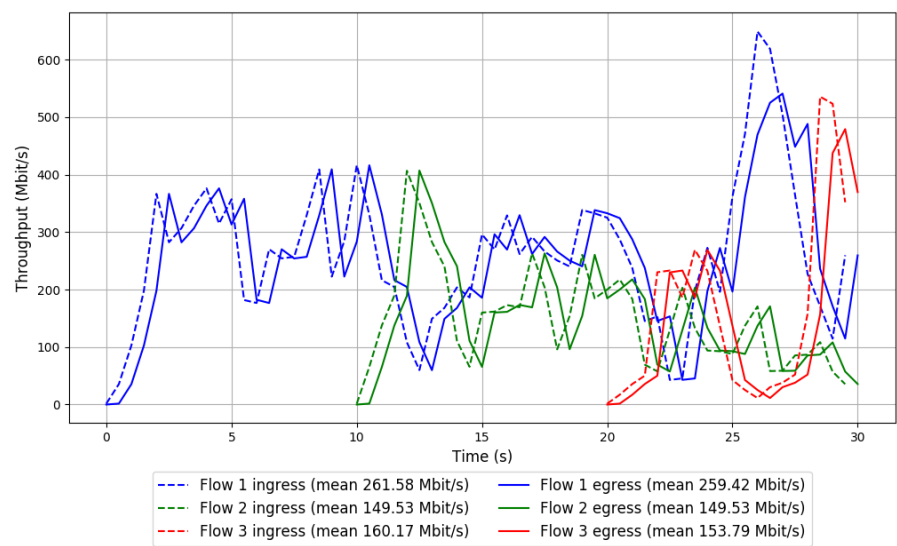
-- Flow 3:

Average throughput: 153.79 Mbit/s

95th percentile per-packet one-way delay: 141.799 ms

Loss rate: 3.98%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-11-30 07:27:24

End at: 2018-11-30 07:27:54

Local clock offset: -0.037 ms

Remote clock offset: -0.16 ms

Below is generated by plot.py at 2018-11-30 10:24:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.08 Mbit/s

95th percentile per-packet one-way delay: 2.555 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 2.186 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 2.792 ms

Loss rate: 0.00%

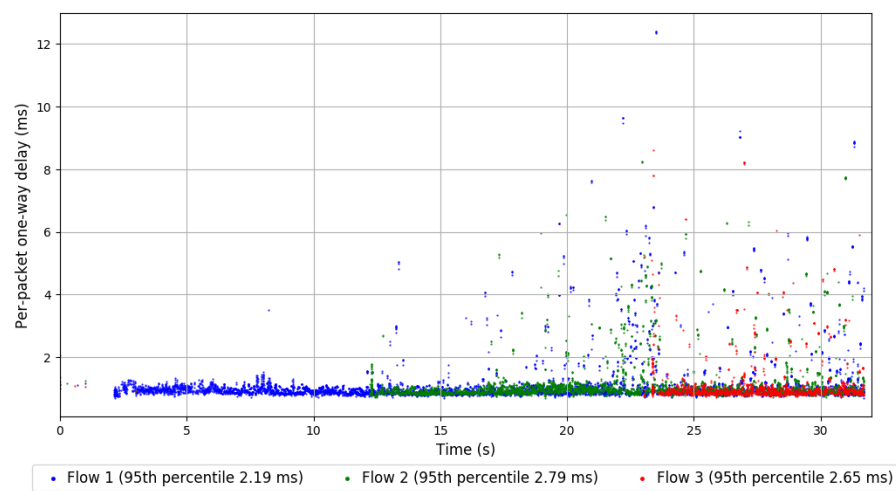
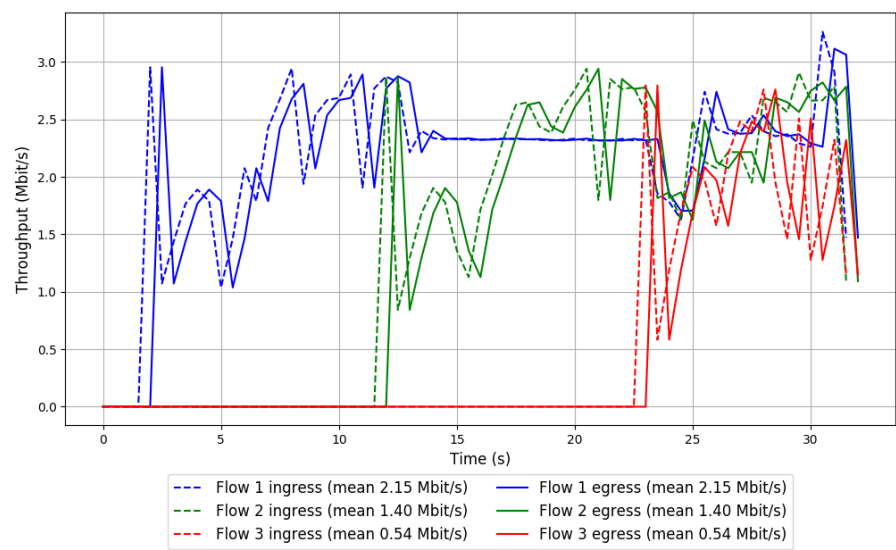
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 2.651 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-11-30 07:54:35

End at: 2018-11-30 07:55:05

Local clock offset: 2.346 ms

Remote clock offset: 0.402 ms

Below is generated by plot.py at 2018-11-30 10:24:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.77 Mbit/s

95th percentile per-packet one-way delay: 3.459 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 3.859 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 2.752 ms

Loss rate: 0.00%

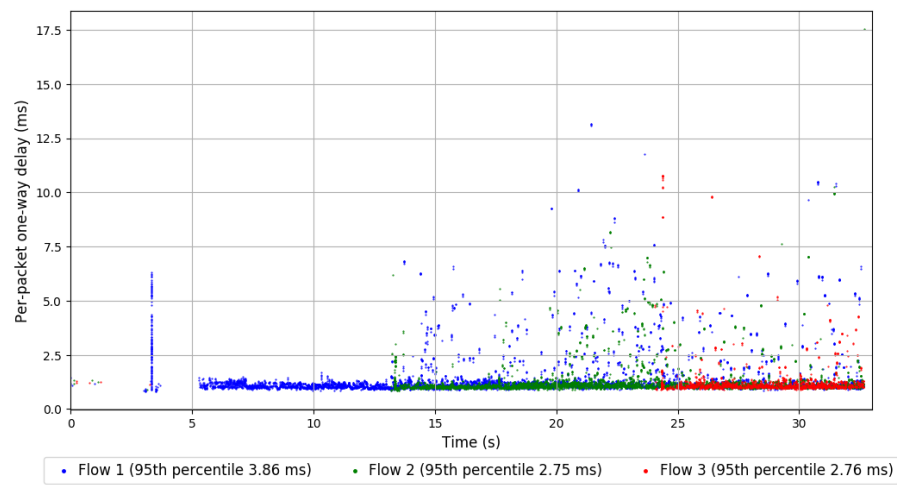
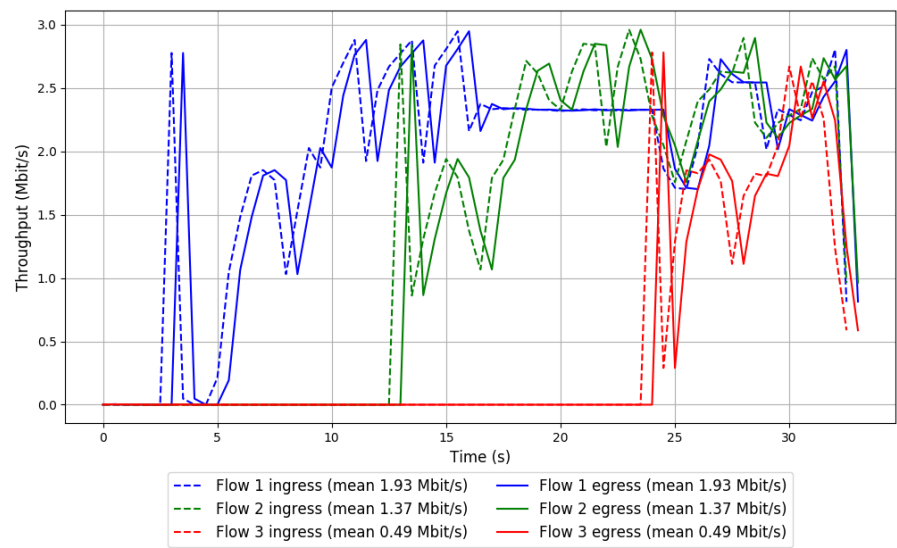
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 2.760 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-11-30 08:21:40

End at: 2018-11-30 08:22:10

Local clock offset: -0.017 ms

Remote clock offset: 0.106 ms

Below is generated by plot.py at 2018-11-30 10:24:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.76 Mbit/s

95th percentile per-packet one-way delay: 2.447 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 2.590 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 2.228 ms

Loss rate: 0.00%

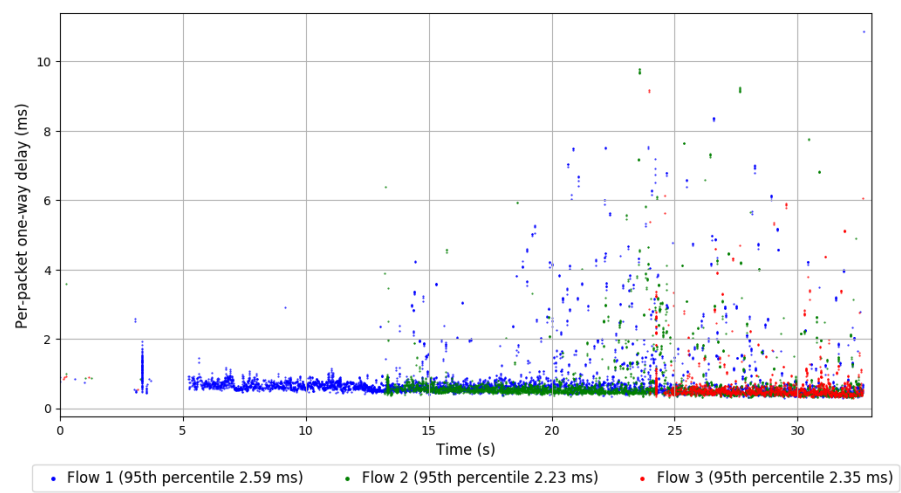
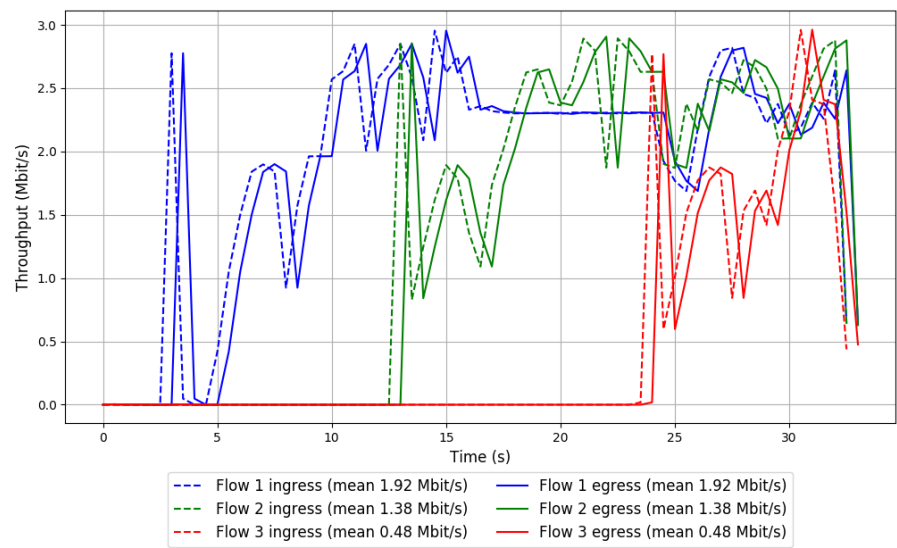
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 2.353 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-11-30 08:48:43

End at: 2018-11-30 08:49:13

Local clock offset: -4.608 ms

Remote clock offset: 0.149 ms

Below is generated by plot.py at 2018-11-30 10:24:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.99 Mbit/s

95th percentile per-packet one-way delay: 2.249 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 2.010 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 2.226 ms

Loss rate: 0.00%

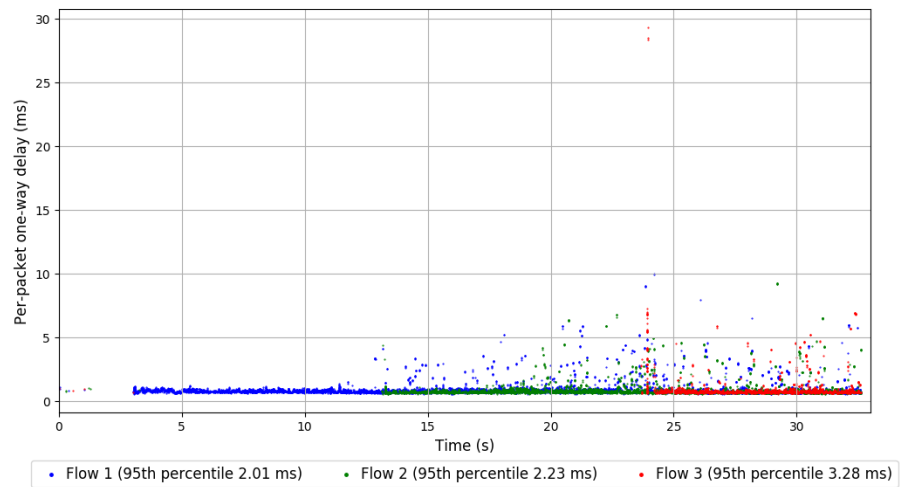
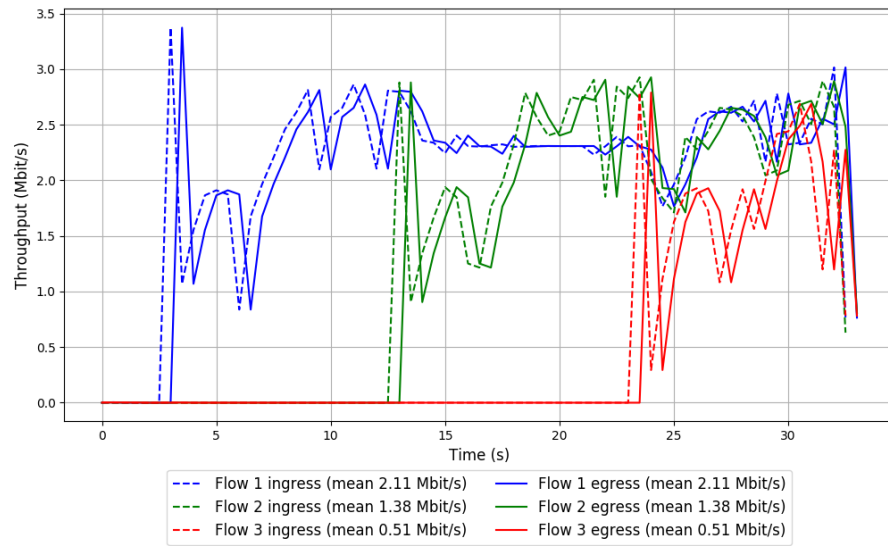
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 3.281 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-11-30 09:15:48

End at: 2018-11-30 09:16:18

Local clock offset: -5.612 ms

Remote clock offset: 0.153 ms

Below is generated by plot.py at 2018-11-30 10:24:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.76 Mbit/s

95th percentile per-packet one-way delay: 2.941 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 2.924 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 3.098 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 2.855 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

