

Pantheon Report

Generated at 2018-11-30 09:14:36 (UTC).

Data path: AWS Brazil 1 on `ens5` (*local*) → Brazil on `p4p1` (*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 `gps.ntp.br` and have been applied to correct the timestamps in logs.

System info:

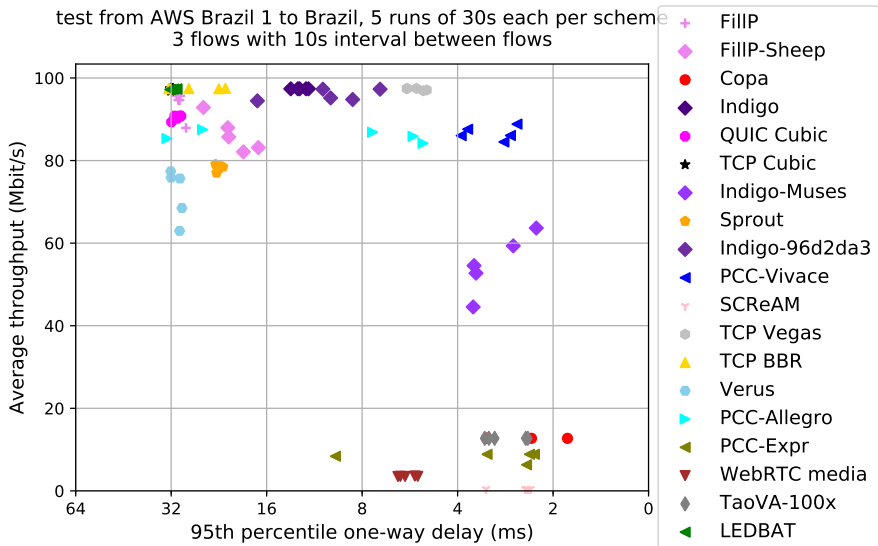
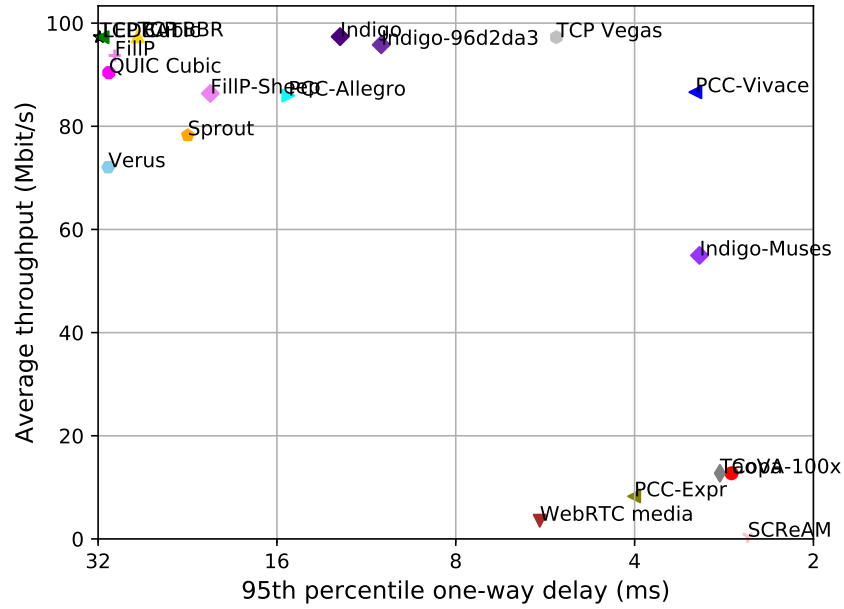
```
Linux 4.15.0-1027-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ 7b6dad87cde3ab65f7c4052140eb54098aa58e9d
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf5e58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
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 Brazil 1 to Brazil, 5 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



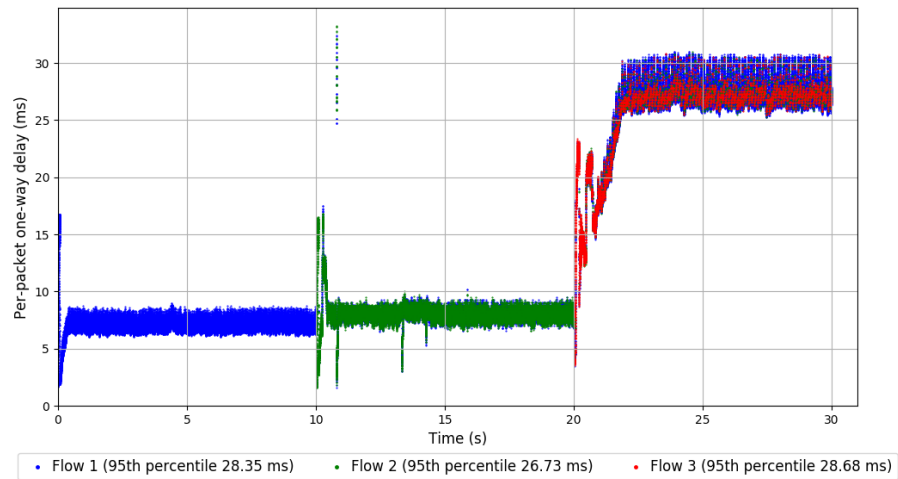
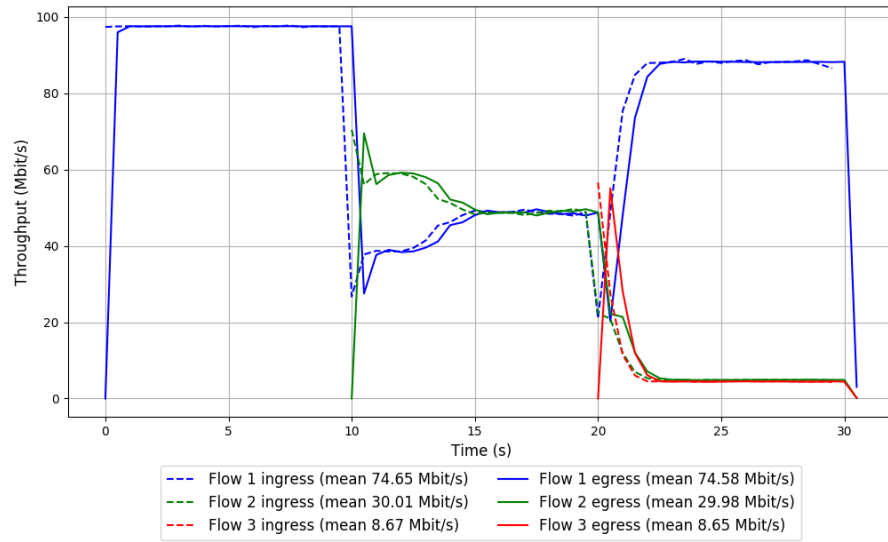
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	71.34	33.46	11.41	27.61	26.06	27.81	0.31	0.06	0.30
Copa	5	10.29	3.55	1.32	2.77	3.02	3.01	67.44	77.14	88.01
TCP Cubic	5	61.07	40.22	28.41	31.05	32.12	32.22	0.03	0.03	0.06
FillP	5	48.78	49.51	36.13	29.62	29.55	30.10	11.64	17.11	38.79
FillP-Sheep	5	46.05	42.96	35.41	16.39	21.95	25.17	0.86	1.06	2.53
Indigo	5	46.61	42.51	69.40	11.19	12.35	12.68	0.00	0.00	0.00
Indigo-96d2da3	5	55.33	37.99	46.11	9.29	10.78	11.26	0.00	0.00	0.00
LEDBAT	5	61.71	39.59	27.74	31.27	31.66	31.73	0.03	0.05	0.16
Indigo-Muses	5	28.53	27.19	25.28	2.78	2.62	3.13	0.00	0.00	0.00
PCC-Allegro	5	70.08	14.29	19.28	13.39	17.04	18.72	0.02	0.06	0.10
PCC-Expr	5	0.54	9.09	6.70	1.60	4.31	2.41	85.71	30.27	25.88
QUIC Cubic	5	58.28	35.04	26.81	30.38	30.81	30.97	0.15	0.18	0.27
SCReAM	5	0.22	0.22	0.22	2.00	2.00	1.99	0.00	0.00	0.00
Sprout	5	42.26	38.61	31.21	21.34	22.53	24.27	0.01	0.00	0.00
TaoVA-100x	5	6.19	9.18	2.72	2.60	2.29	2.26	89.23	91.41	97.09
TCP Vegas	5	48.24	43.45	60.38	7.05	4.73	5.14	0.00	0.00	0.00
Verus	5	44.98	27.92	25.73	29.26	30.71	32.24	6.63	11.93	14.19
PCC-Vivace	5	55.13	34.31	26.22	2.40	3.36	3.99	0.00	0.00	0.00
WebRTC media	5	1.94	1.24	0.36	5.53	5.78	6.42	0.01	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-11-30 07:32:27
End at: 2018-11-30 07:32:57
Local clock offset: -7.704 ms
Remote clock offset: -0.285 ms

Below is generated by plot.py at 2018-11-30 09:04:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.43 Mbit/s
95th percentile per-packet one-way delay: 28.160 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 74.58 Mbit/s
95th percentile per-packet one-way delay: 28.350 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 29.98 Mbit/s
95th percentile per-packet one-way delay: 26.734 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 8.65 Mbit/s
95th percentile per-packet one-way delay: 28.685 ms
Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-11-30 07:54:06

End at: 2018-11-30 07:54:36

Local clock offset: -7.046 ms

Remote clock offset: 0.21 ms

Below is generated by plot.py at 2018-11-30 09:04:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 21.583 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 66.24 Mbit/s

95th percentile per-packet one-way delay: 21.600 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.70 Mbit/s

95th percentile per-packet one-way delay: 21.503 ms

Loss rate: 0.00%

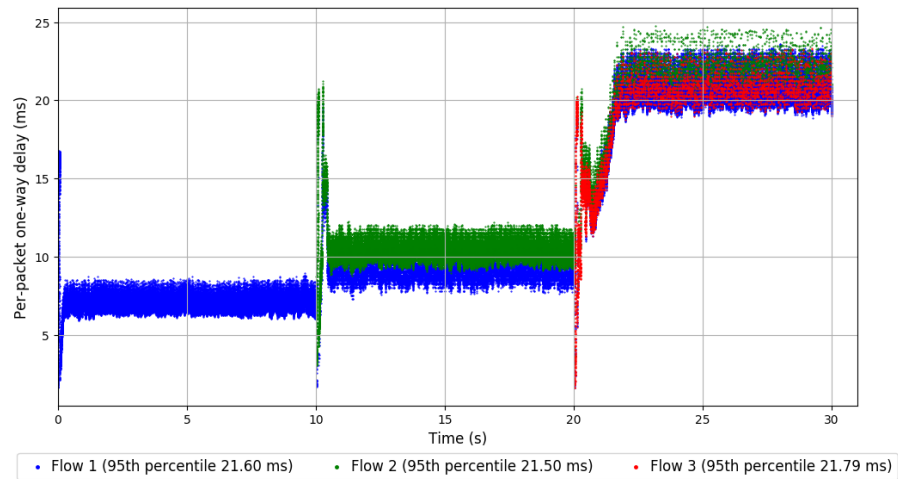
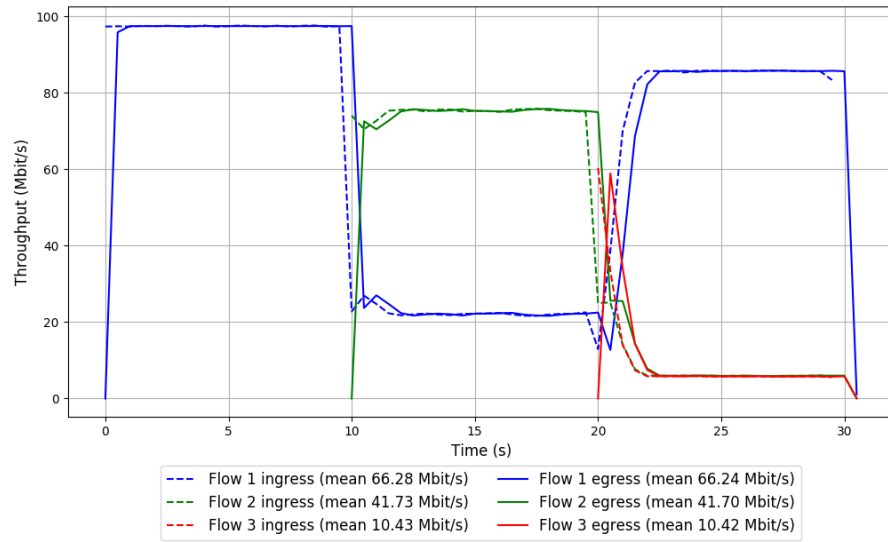
-- Flow 3:

Average throughput: 10.42 Mbit/s

95th percentile per-packet one-way delay: 21.791 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-11-30 08:15:42

End at: 2018-11-30 08:16:12

Local clock offset: -5.74 ms

Remote clock offset: 0.634 ms

Below is generated by plot.py at 2018-11-30 09:04:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.39 Mbit/s

95th percentile per-packet one-way delay: 22.634 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 71.66 Mbit/s

95th percentile per-packet one-way delay: 22.587 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 33.05 Mbit/s

95th percentile per-packet one-way delay: 20.485 ms

Loss rate: 0.00%

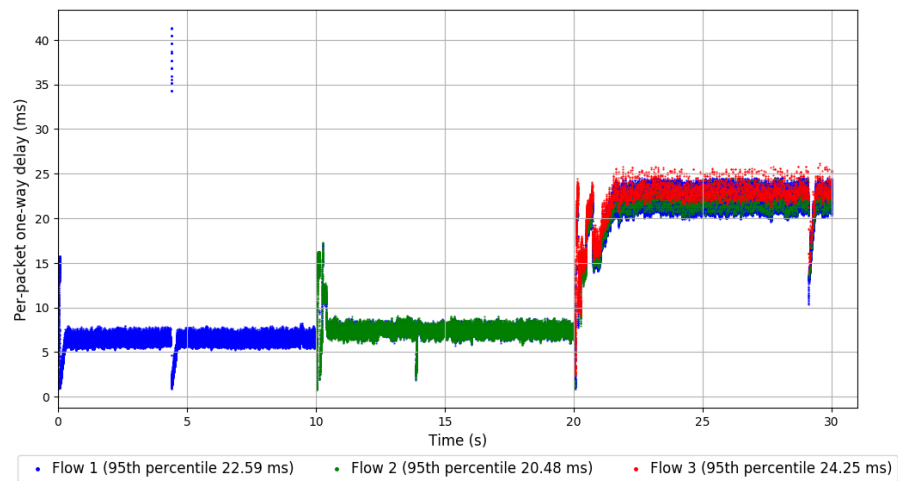
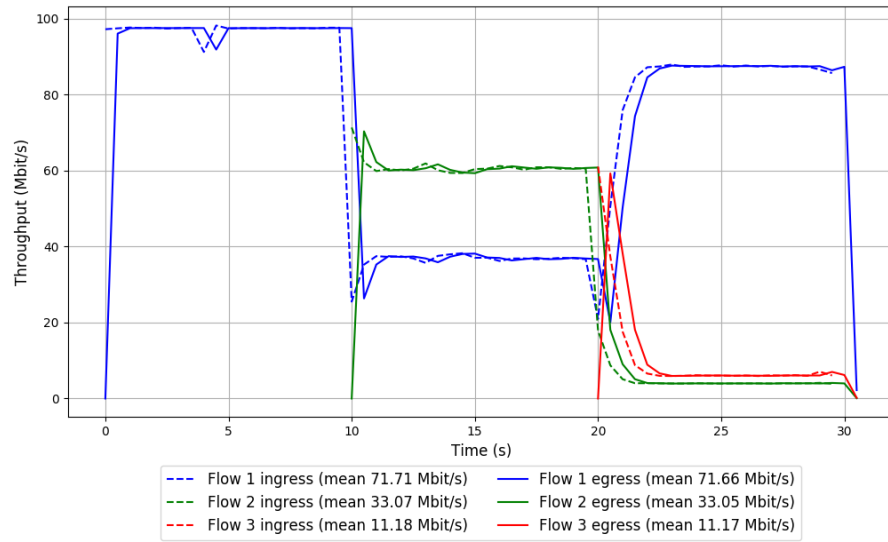
-- Flow 3:

Average throughput: 11.17 Mbit/s

95th percentile per-packet one-way delay: 24.254 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-11-30 08:37:20

End at: 2018-11-30 08:37:50

Local clock offset: -6.114 ms

Remote clock offset: 0.846 ms

Below is generated by plot.py at 2018-11-30 09:04:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 32.544 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 70.13 Mbit/s

95th percentile per-packet one-way delay: 32.904 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 33.92 Mbit/s

95th percentile per-packet one-way delay: 30.540 ms

Loss rate: 0.15%

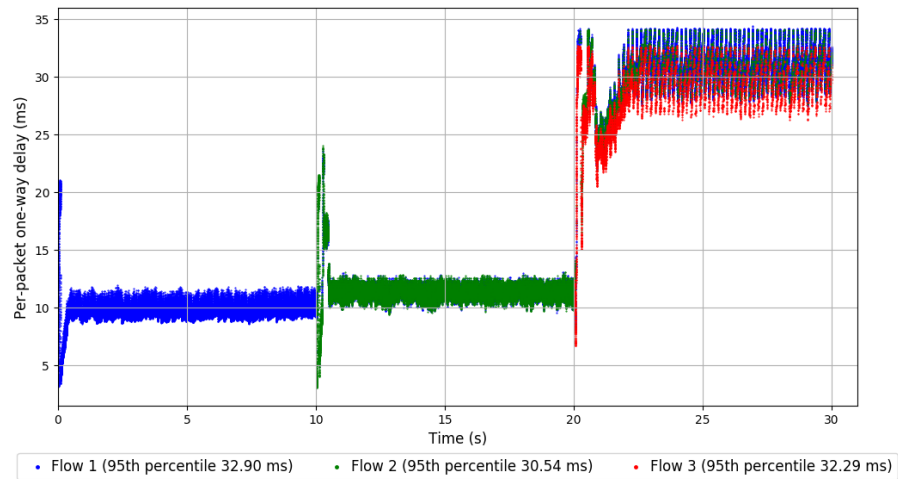
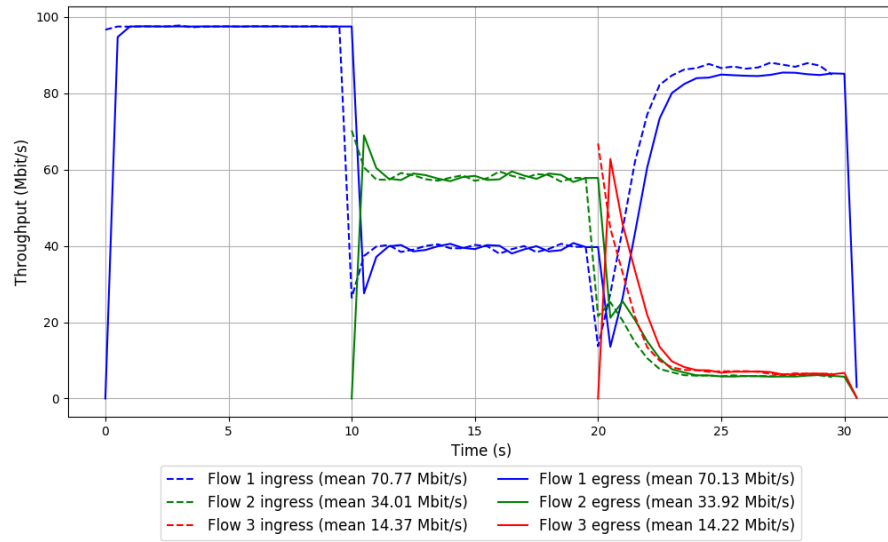
-- Flow 3:

Average throughput: 14.22 Mbit/s

95th percentile per-packet one-way delay: 32.288 ms

Loss rate: 0.88%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

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

End at: 2018-11-30 08:59:28

Local clock offset: -7.33 ms

Remote clock offset: 0.678 ms

Below is generated by plot.py at 2018-11-30 09:04:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.39 Mbit/s

95th percentile per-packet one-way delay: 32.318 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 74.10 Mbit/s

95th percentile per-packet one-way delay: 32.595 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 28.67 Mbit/s

95th percentile per-packet one-way delay: 31.047 ms

Loss rate: 0.13%

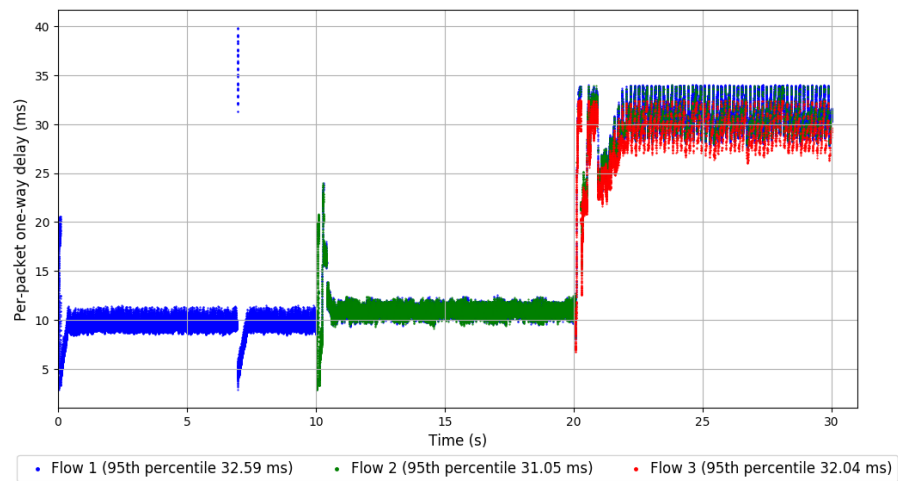
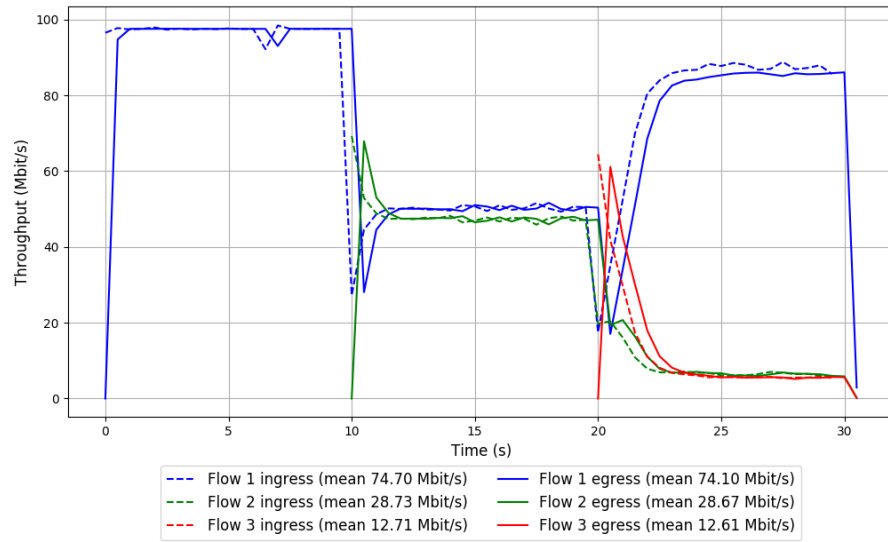
-- Flow 3:

Average throughput: 12.61 Mbit/s

95th percentile per-packet one-way delay: 32.041 ms

Loss rate: 0.64%

Run 5: Report of TCP BBR — Data Link

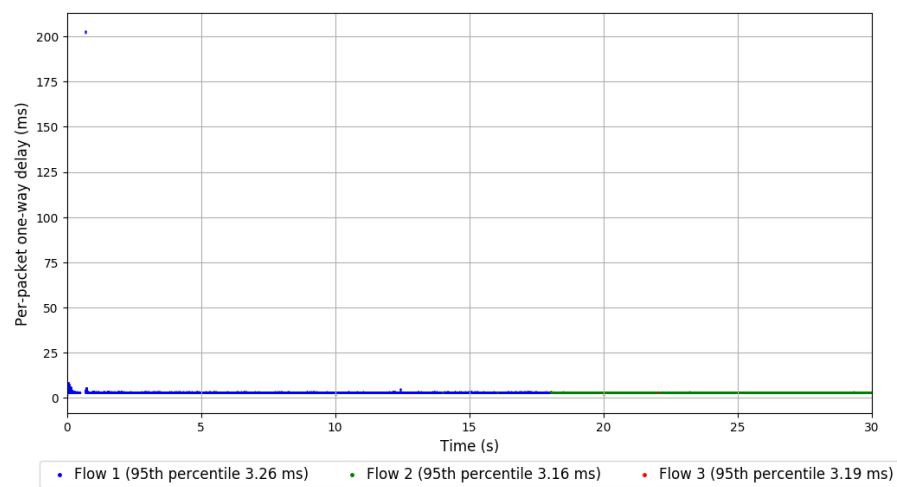
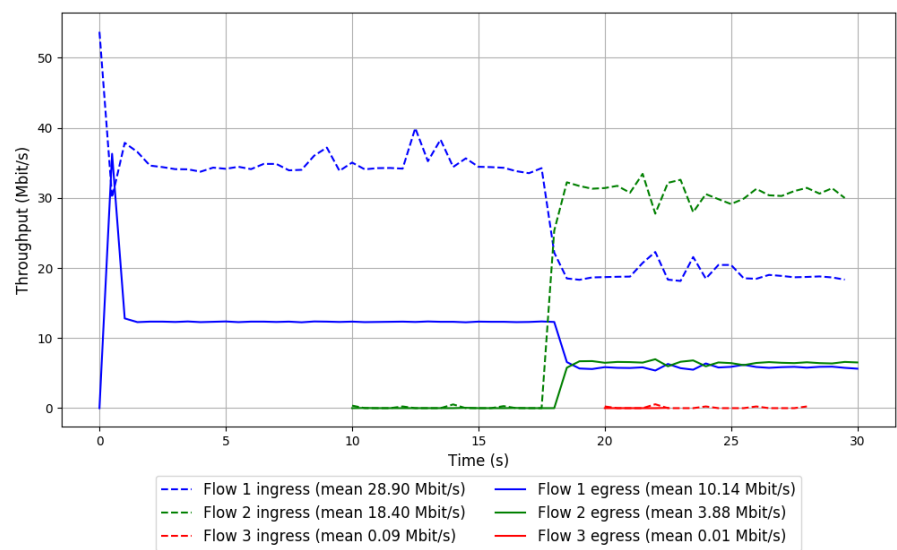


Run 1: Statistics of Copa

Start at: 2018-11-30 07:22:11
End at: 2018-11-30 07:22:41
Local clock offset: -7.23 ms
Remote clock offset: -0.272 ms

Below is generated by plot.py at 2018-11-30 09:04:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 3.229 ms
Loss rate: 69.08%
-- Flow 1:
Average throughput: 10.14 Mbit/s
95th percentile per-packet one-way delay: 3.256 ms
Loss rate: 64.90%
-- Flow 2:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 3.158 ms
Loss rate: 78.89%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 3.188 ms
Loss rate: 96.69%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-11-30 07:43:49

End at: 2018-11-30 07:44:19

Local clock offset: -7.902 ms

Remote clock offset: -0.07 ms

Below is generated by plot.py at 2018-11-30 09:04:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 3.246 ms

Loss rate: 70.92%

-- Flow 1:

Average throughput: 8.95 Mbit/s

95th percentile per-packet one-way delay: 3.296 ms

Loss rate: 67.80%

-- Flow 2:

Average throughput: 6.21 Mbit/s

95th percentile per-packet one-way delay: 3.220 ms

Loss rate: 72.50%

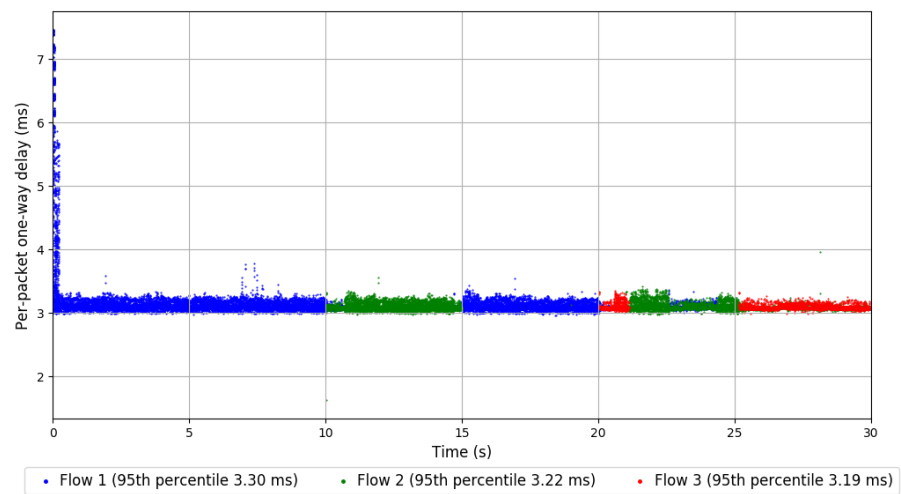
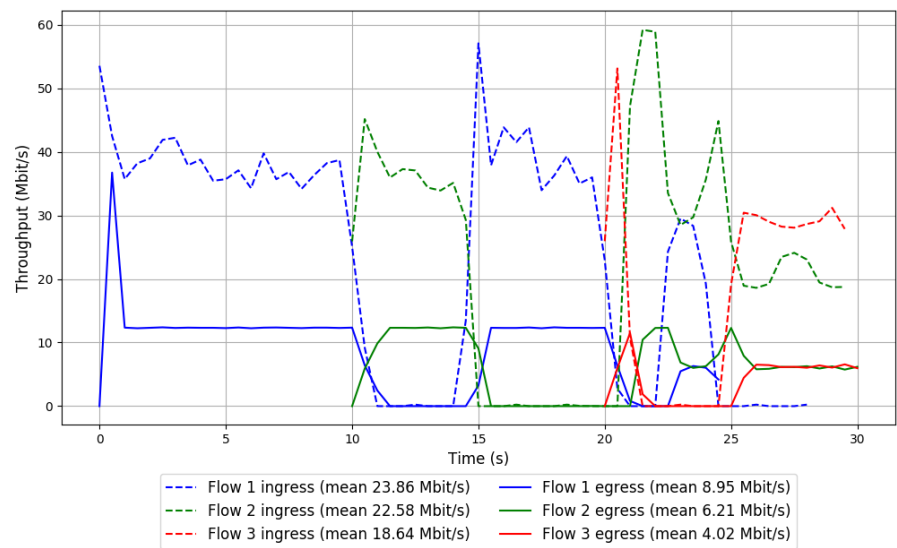
-- Flow 3:

Average throughput: 4.02 Mbit/s

95th percentile per-packet one-way delay: 3.189 ms

Loss rate: 78.44%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-11-30 08:05:27

End at: 2018-11-30 08:05:57

Local clock offset: -6.681 ms

Remote clock offset: 0.41 ms

Below is generated by plot.py at 2018-11-30 09:04:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 3.225 ms

Loss rate: 68.74%

-- Flow 1:

Average throughput: 11.47 Mbit/s

95th percentile per-packet one-way delay: 3.232 ms

Loss rate: 67.06%

-- Flow 2:

Average throughput: 0.79 Mbit/s

95th percentile per-packet one-way delay: 3.160 ms

Loss rate: 79.05%

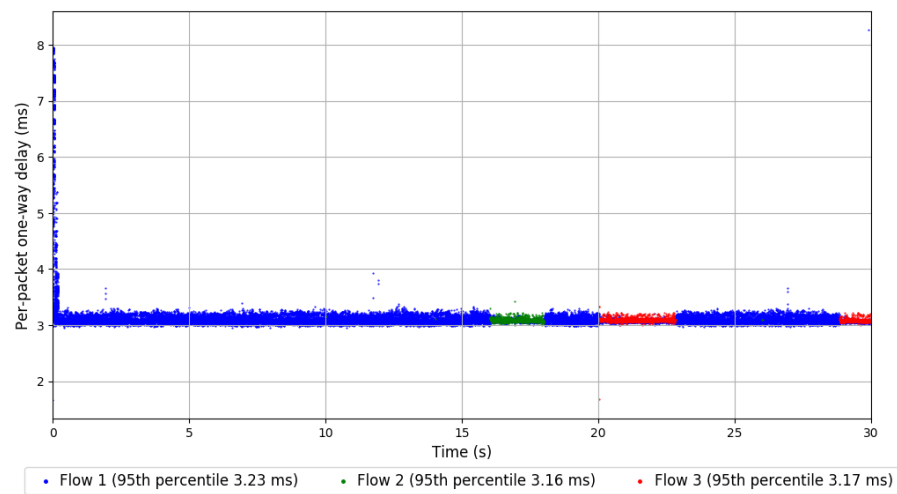
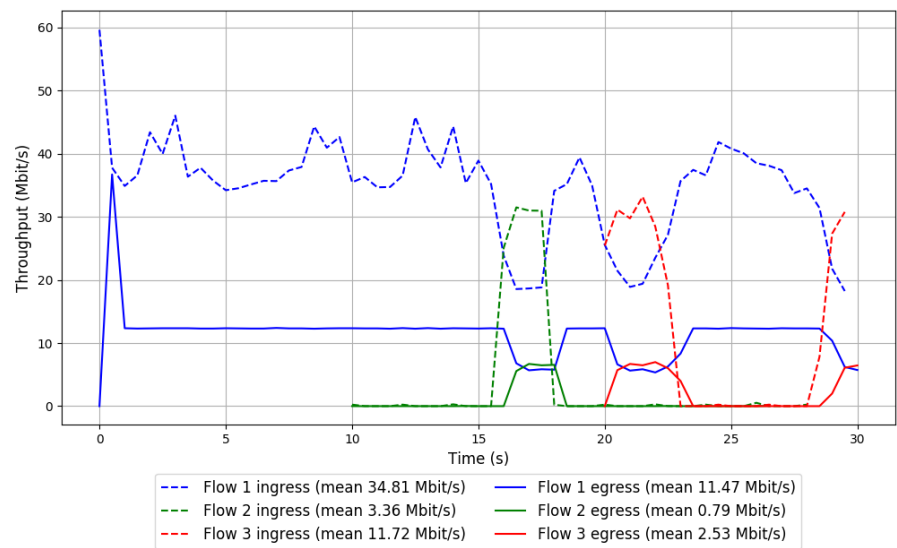
-- Flow 3:

Average throughput: 2.53 Mbit/s

95th percentile per-packet one-way delay: 3.173 ms

Loss rate: 78.43%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-11-30 08:27:04

End at: 2018-11-30 08:27:34

Local clock offset: -5.497 ms

Remote clock offset: 0.647 ms

Below is generated by plot.py at 2018-11-30 09:04:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 2.340 ms

Loss rate: 71.74%

-- Flow 1:

Average throughput: 8.17 Mbit/s

95th percentile per-packet one-way delay: 2.389 ms

Loss rate: 69.26%

-- Flow 2:

Average throughput: 6.85 Mbit/s

95th percentile per-packet one-way delay: 2.308 ms

Loss rate: 75.28%

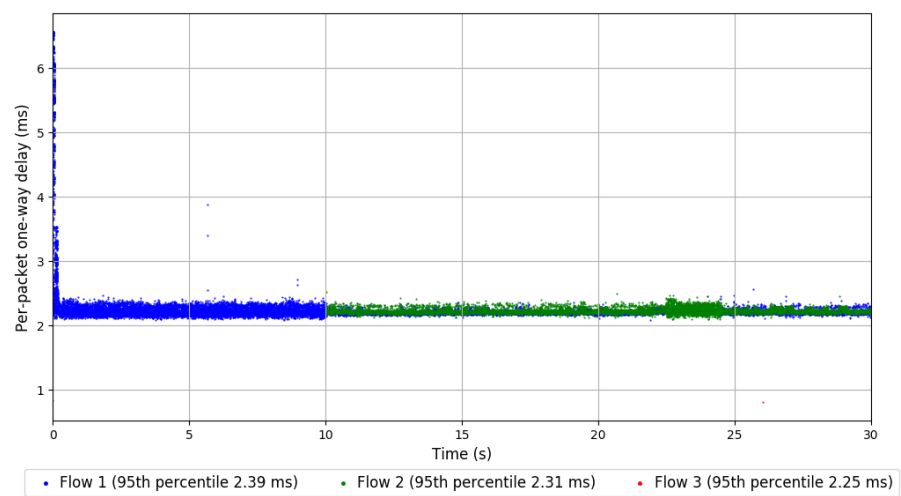
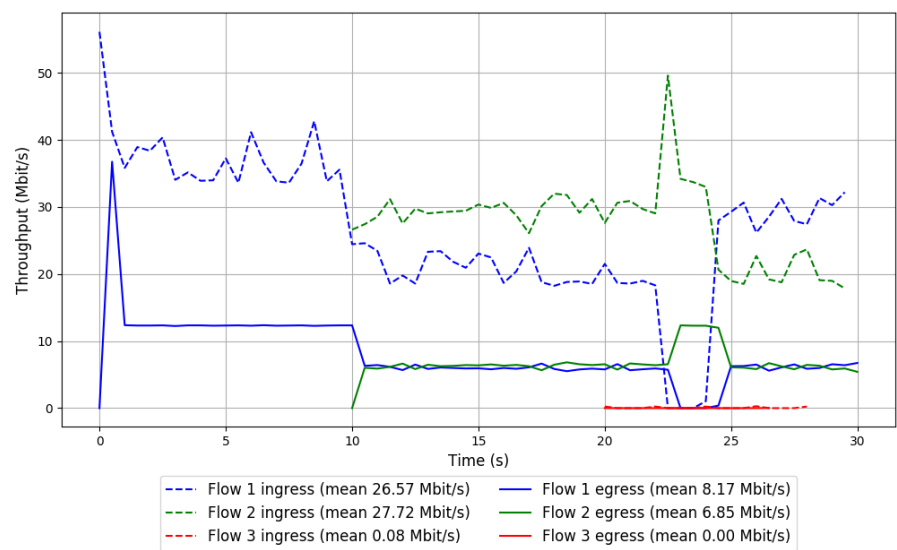
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 2.250 ms

Loss rate: 97.92%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

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

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

Local clock offset: -6.591 ms

Remote clock offset: 0.765 ms

Below is generated by plot.py at 2018-11-30 09:04:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.72 Mbit/s

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

Loss rate: 68.23%

-- Flow 1:

Average throughput: 12.70 Mbit/s

95th percentile per-packet one-way delay: 1.697 ms

Loss rate: 68.18%

-- Flow 2:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 3.235 ms

Loss rate: 79.97%

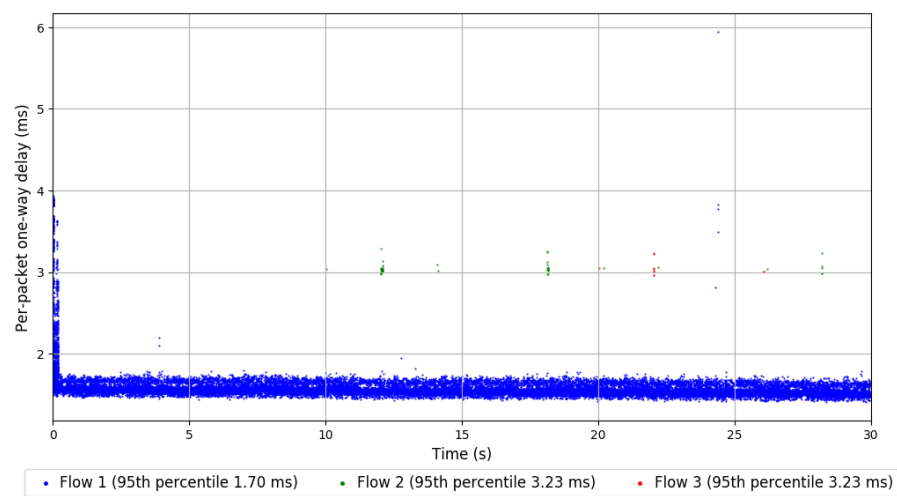
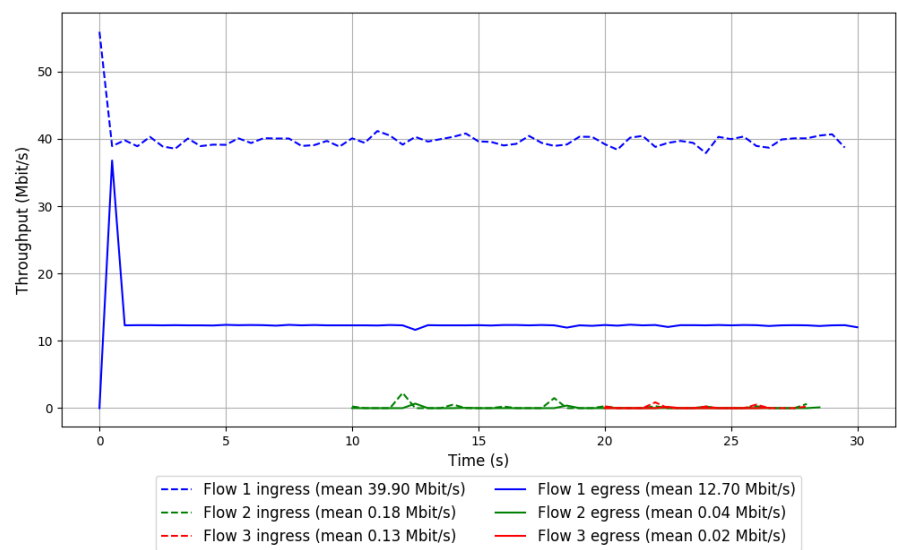
-- Flow 3:

Average throughput: 0.02 Mbit/s

95th percentile per-packet one-way delay: 3.234 ms

Loss rate: 88.55%

Run 5: Report of Copa — Data Link

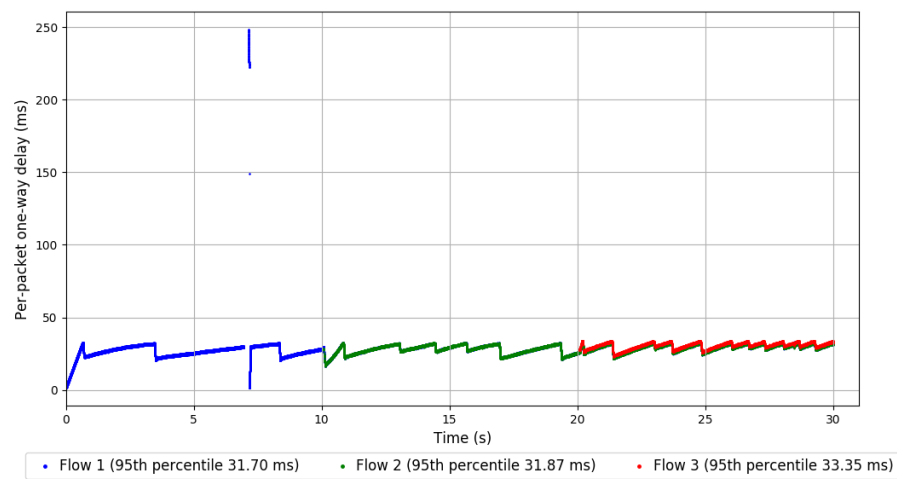
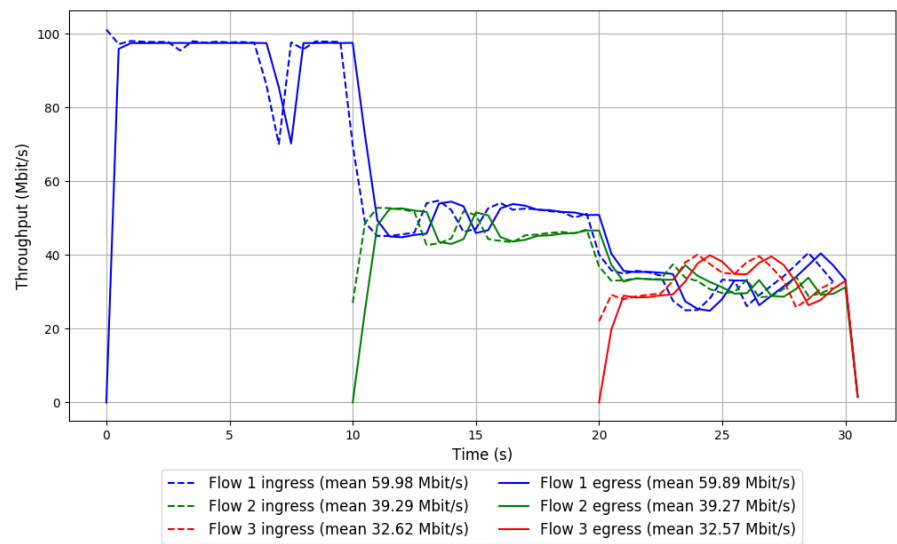


Run 1: Statistics of TCP Cubic

Start at: 2018-11-30 07:25:35
End at: 2018-11-30 07:26:05
Local clock offset: -7.4 ms
Remote clock offset: -0.353 ms

Below is generated by plot.py at 2018-11-30 09:04:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.85 Mbit/s
95th percentile per-packet one-way delay: 32.107 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 59.89 Mbit/s
95th percentile per-packet one-way delay: 31.697 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 39.27 Mbit/s
95th percentile per-packet one-way delay: 31.874 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 32.57 Mbit/s
95th percentile per-packet one-way delay: 33.355 ms
Loss rate: 0.11%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-11-30 07:47:13

End at: 2018-11-30 07:47:43

Local clock offset: -6.809 ms

Remote clock offset: 0.085 ms

Below is generated by plot.py at 2018-11-30 09:05:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 32.097 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 64.32 Mbit/s

95th percentile per-packet one-way delay: 31.093 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 36.86 Mbit/s

95th percentile per-packet one-way delay: 32.627 ms

Loss rate: 0.02%

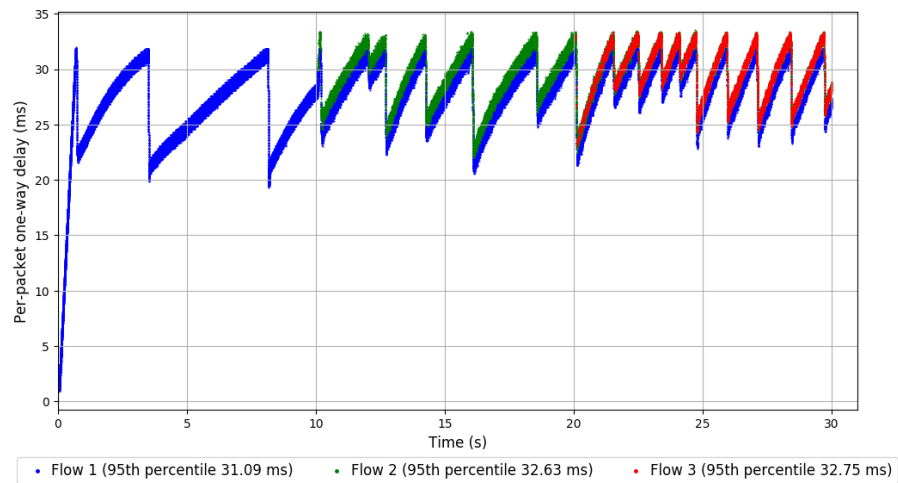
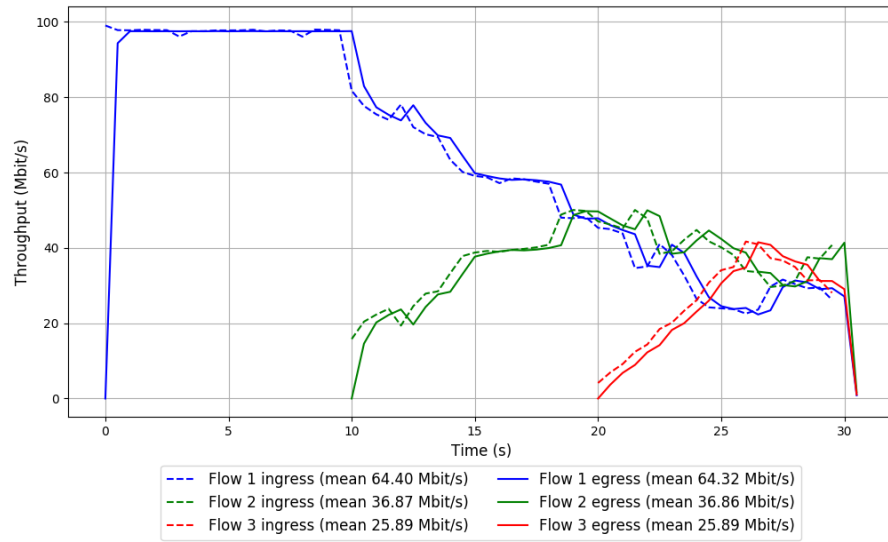
-- Flow 3:

Average throughput: 25.89 Mbit/s

95th percentile per-packet one-way delay: 32.748 ms

Loss rate: 0.04%

Run 2: Report of TCP Cubic — Data Link

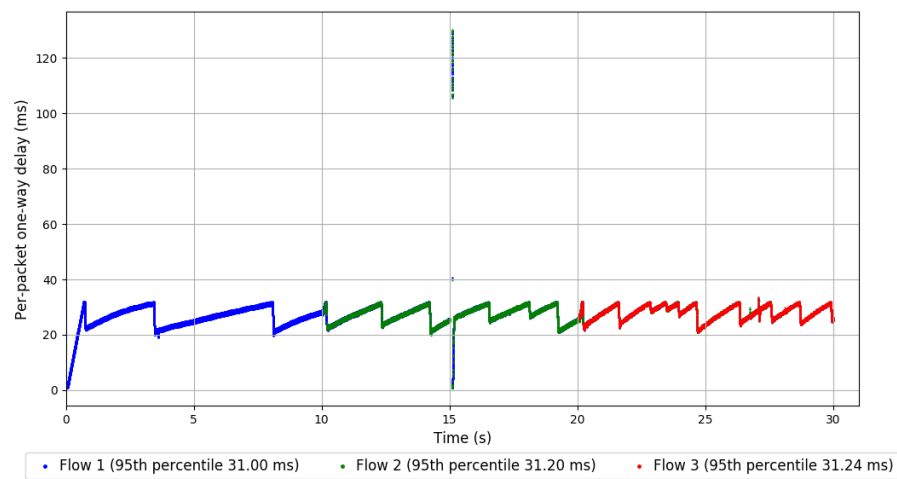
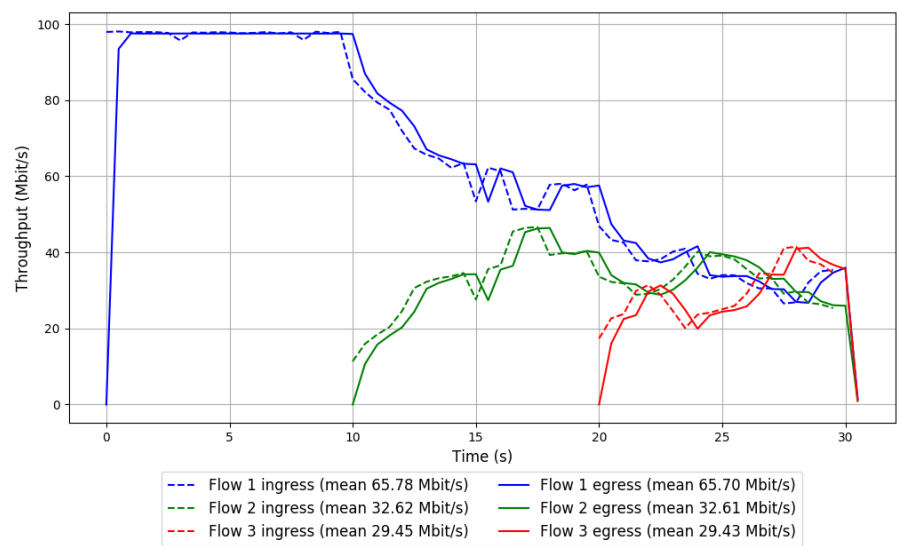


Run 3: Statistics of TCP Cubic

Start at: 2018-11-30 08:08:50
End at: 2018-11-30 08:09:20
Local clock offset: -5.885 ms
Remote clock offset: 0.468 ms

Below is generated by plot.py at 2018-11-30 09:05:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.18 Mbit/s
95th percentile per-packet one-way delay: 31.130 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 65.70 Mbit/s
95th percentile per-packet one-way delay: 31.005 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 32.61 Mbit/s
95th percentile per-packet one-way delay: 31.199 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 29.43 Mbit/s
95th percentile per-packet one-way delay: 31.240 ms
Loss rate: 0.07%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

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

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

Local clock offset: -5.435 ms

Remote clock offset: 0.729 ms

Below is generated by plot.py at 2018-11-30 09:05:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 31.599 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 64.58 Mbit/s

95th percentile per-packet one-way delay: 30.888 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 39.60 Mbit/s

95th percentile per-packet one-way delay: 32.393 ms

Loss rate: 0.02%

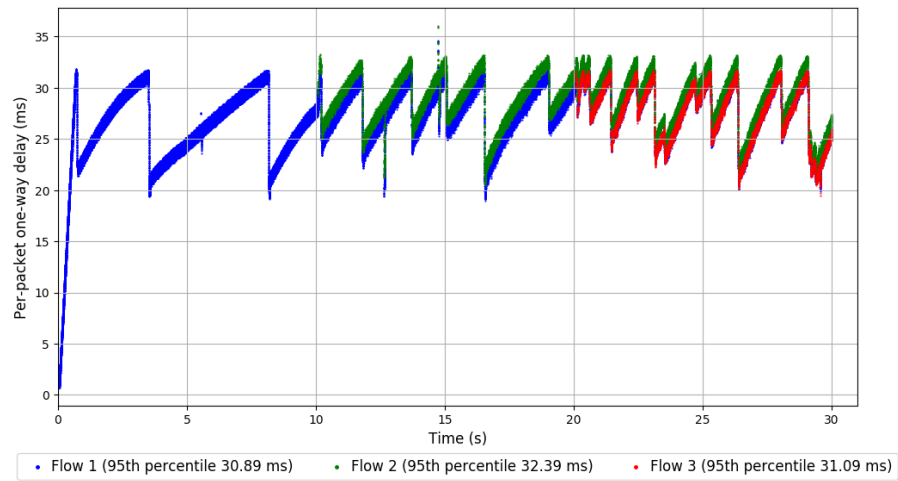
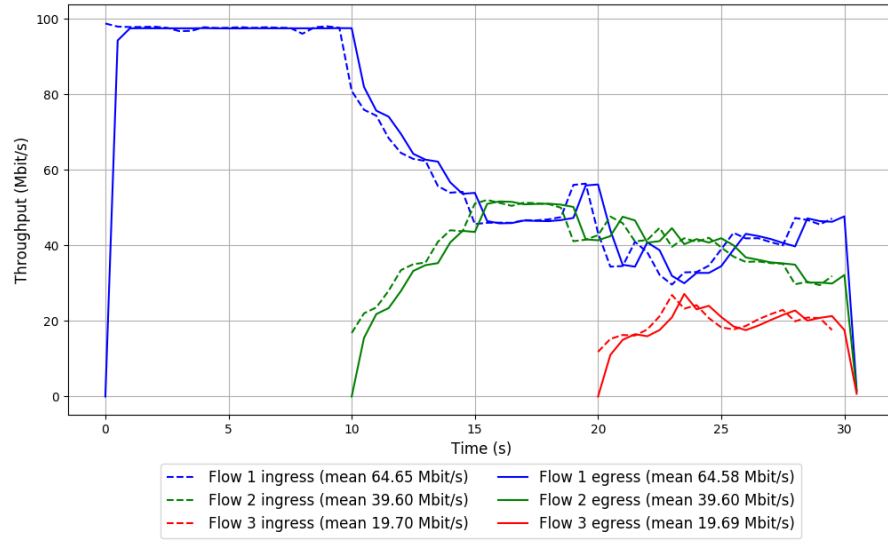
-- Flow 3:

Average throughput: 19.69 Mbit/s

95th percentile per-packet one-way delay: 31.094 ms

Loss rate: 0.07%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-11-30 08:52:05

End at: 2018-11-30 08:52:35

Local clock offset: -6.215 ms

Remote clock offset: 0.748 ms

Below is generated by plot.py at 2018-11-30 09:05:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 32.202 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 50.86 Mbit/s

95th percentile per-packet one-way delay: 30.573 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 52.78 Mbit/s

95th percentile per-packet one-way delay: 32.482 ms

Loss rate: 0.03%

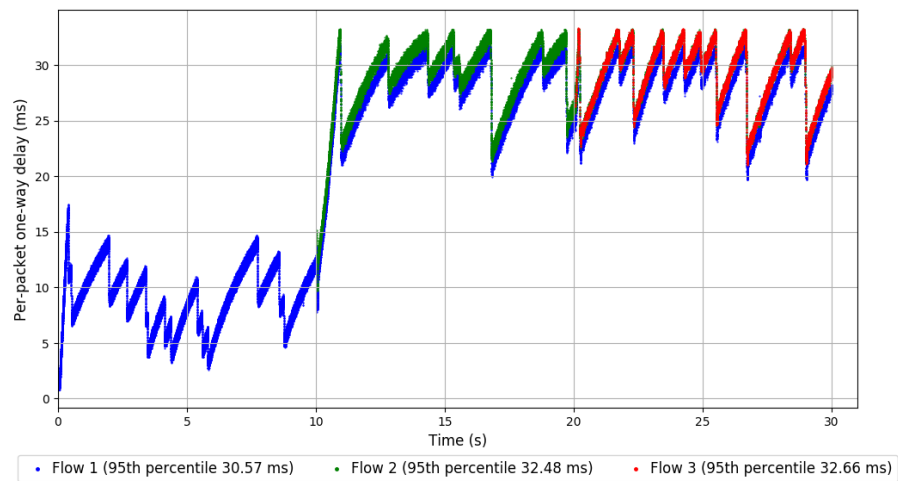
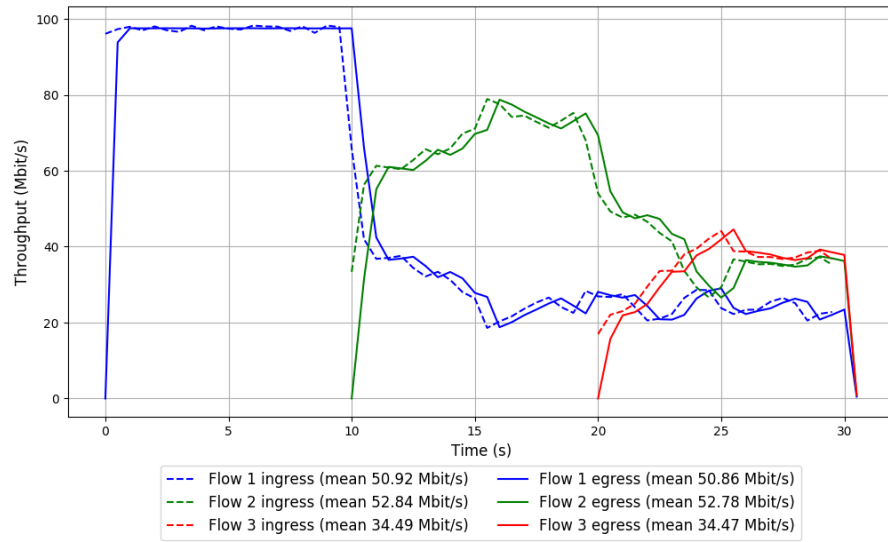
-- Flow 3:

Average throughput: 34.47 Mbit/s

95th percentile per-packet one-way delay: 32.656 ms

Loss rate: 0.03%

Run 5: Report of TCP Cubic — Data Link

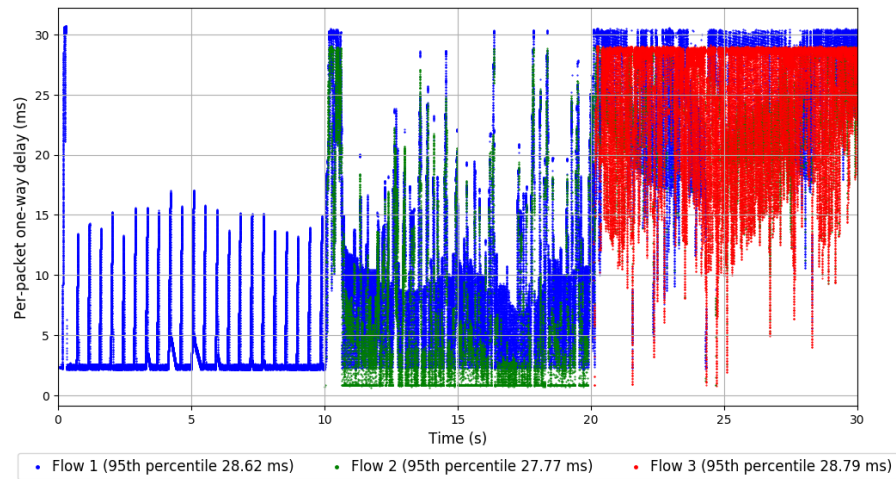
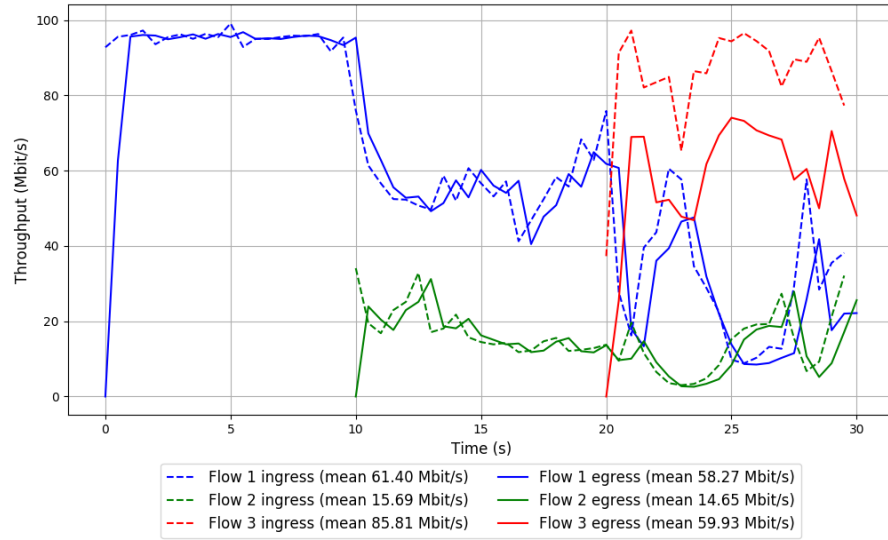


Run 1: Statistics of FillP

Start at: 2018-11-30 07:24:26
End at: 2018-11-30 07:24:56
Local clock offset: -6.643 ms
Remote clock offset: -0.298 ms

Below is generated by plot.py at 2018-11-30 09:05:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.91 Mbit/s
95th percentile per-packet one-way delay: 28.749 ms
Loss rate: 12.27%
-- Flow 1:
Average throughput: 58.27 Mbit/s
95th percentile per-packet one-way delay: 28.618 ms
Loss rate: 5.01%
-- Flow 2:
Average throughput: 14.65 Mbit/s
95th percentile per-packet one-way delay: 27.772 ms
Loss rate: 6.48%
-- Flow 3:
Average throughput: 59.93 Mbit/s
95th percentile per-packet one-way delay: 28.789 ms
Loss rate: 30.07%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-11-30 07:46:04

End at: 2018-11-30 07:46:34

Local clock offset: -6.977 ms

Remote clock offset: 0.069 ms

Below is generated by plot.py at 2018-11-30 09:06:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.67 Mbit/s

95th percentile per-packet one-way delay: 29.945 ms

Loss rate: 21.94%

-- Flow 1:

Average throughput: 46.60 Mbit/s

95th percentile per-packet one-way delay: 29.915 ms

Loss rate: 14.23%

-- Flow 2:

Average throughput: 55.34 Mbit/s

95th percentile per-packet one-way delay: 28.890 ms

Loss rate: 21.31%

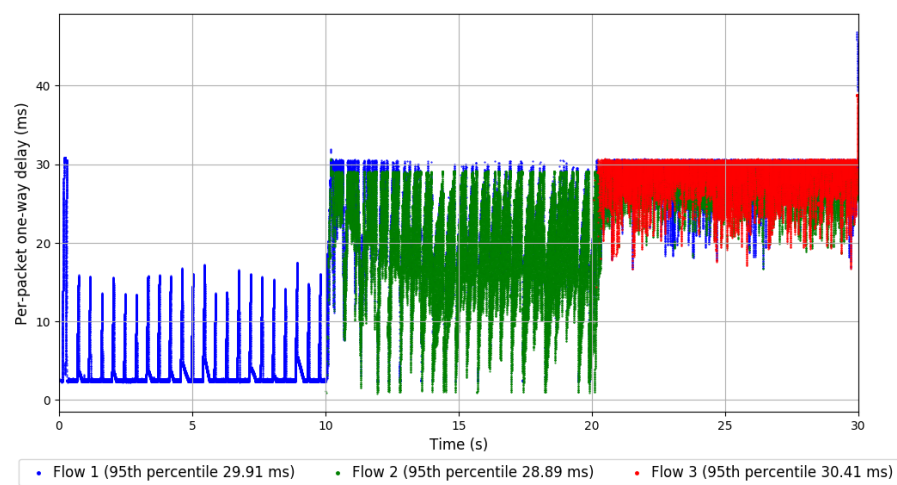
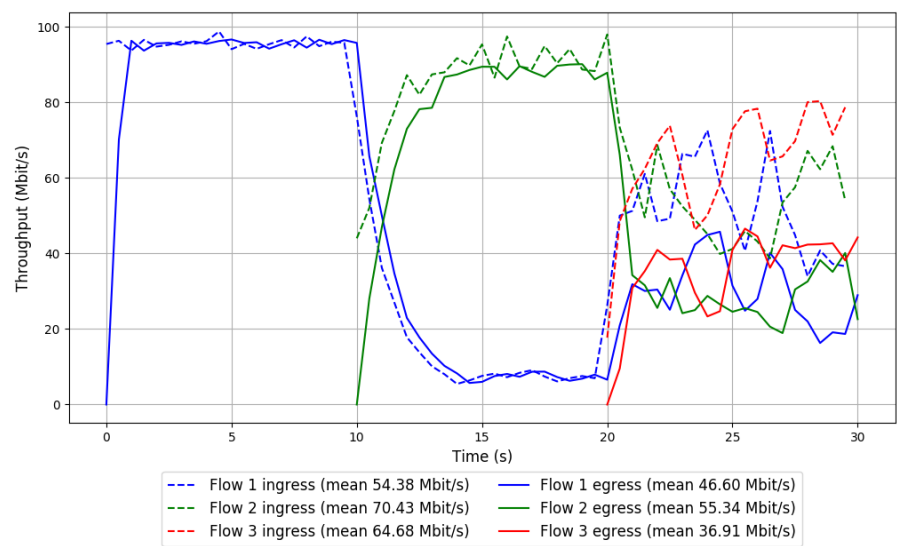
-- Flow 3:

Average throughput: 36.91 Mbit/s

95th percentile per-packet one-way delay: 30.409 ms

Loss rate: 42.90%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-11-30 08:07:41

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

Local clock offset: -6.656 ms

Remote clock offset: 0.376 ms

Below is generated by plot.py at 2018-11-30 09:06:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.70 Mbit/s

95th percentile per-packet one-way delay: 30.806 ms

Loss rate: 21.34%

-- Flow 1:

Average throughput: 45.66 Mbit/s

95th percentile per-packet one-way delay: 30.467 ms

Loss rate: 15.06%

-- Flow 2:

Average throughput: 57.66 Mbit/s

95th percentile per-packet one-way delay: 30.840 ms

Loss rate: 19.57%

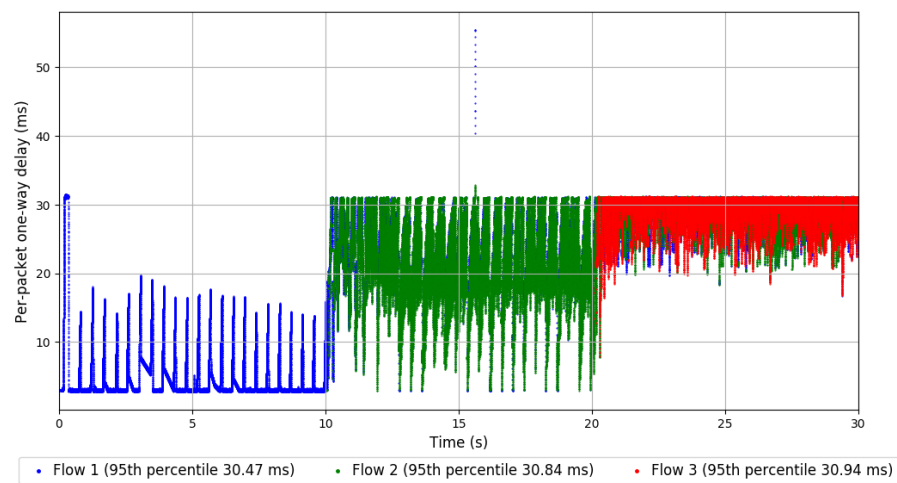
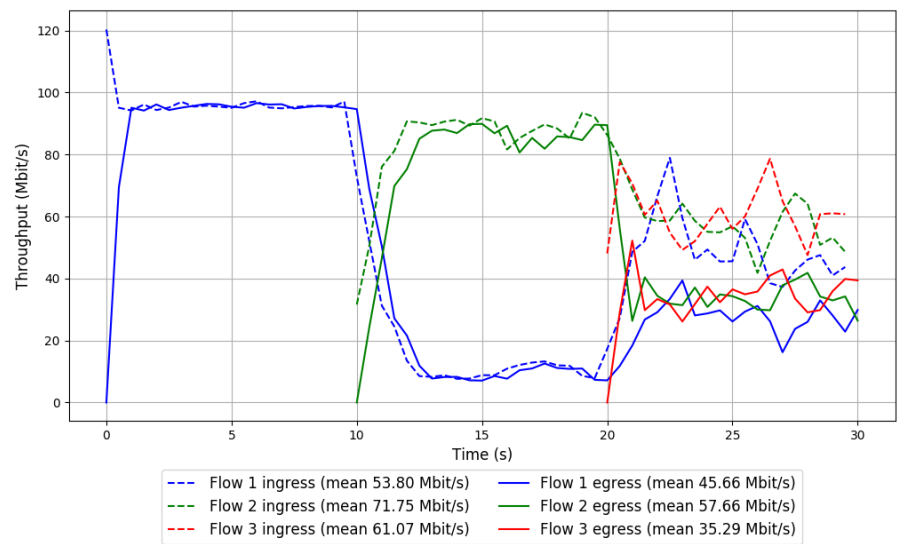
-- Flow 3:

Average throughput: 35.29 Mbit/s

95th percentile per-packet one-way delay: 30.938 ms

Loss rate: 42.15%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-11-30 08:29:19

End at: 2018-11-30 08:29:49

Local clock offset: -6.217 ms

Remote clock offset: 0.765 ms

Below is generated by plot.py at 2018-11-30 09:06:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.63 Mbit/s

95th percentile per-packet one-way delay: 30.122 ms

Loss rate: 18.09%

-- Flow 1:

Average throughput: 47.99 Mbit/s

95th percentile per-packet one-way delay: 30.471 ms

Loss rate: 14.57%

-- Flow 2:

Average throughput: 59.30 Mbit/s

95th percentile per-packet one-way delay: 29.410 ms

Loss rate: 19.62%

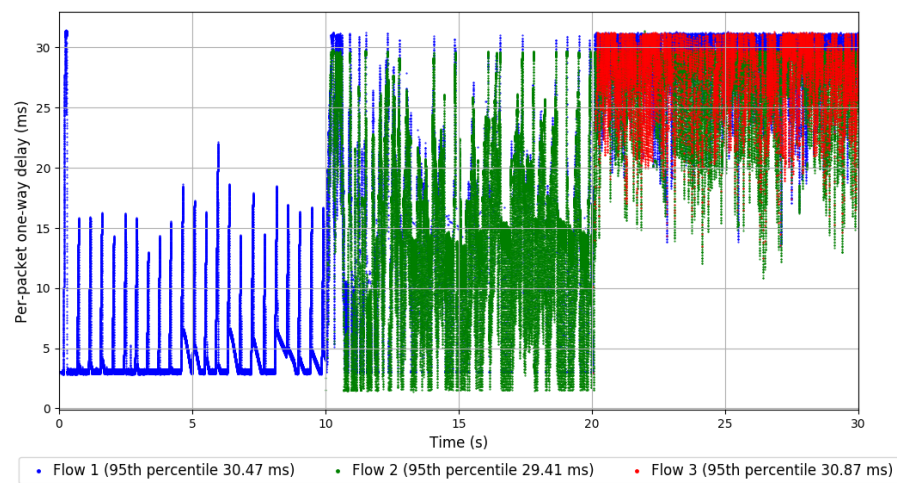
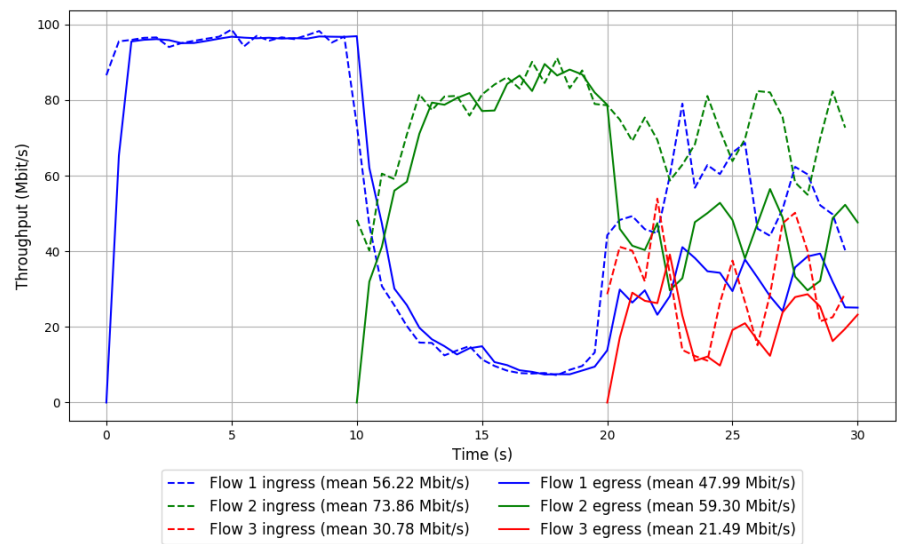
-- Flow 3:

Average throughput: 21.49 Mbit/s

95th percentile per-packet one-way delay: 30.874 ms

Loss rate: 30.03%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-11-30 08:50:56

End at: 2018-11-30 08:51:26

Local clock offset: -6.832 ms

Remote clock offset: 0.761 ms

Below is generated by plot.py at 2018-11-30 09:06:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.67 Mbit/s

95th percentile per-packet one-way delay: 30.391 ms

Loss rate: 19.14%

-- Flow 1:

Average throughput: 45.37 Mbit/s

95th percentile per-packet one-way delay: 28.631 ms

Loss rate: 9.31%

-- Flow 2:

Average throughput: 60.60 Mbit/s

95th percentile per-packet one-way delay: 30.821 ms

Loss rate: 18.57%

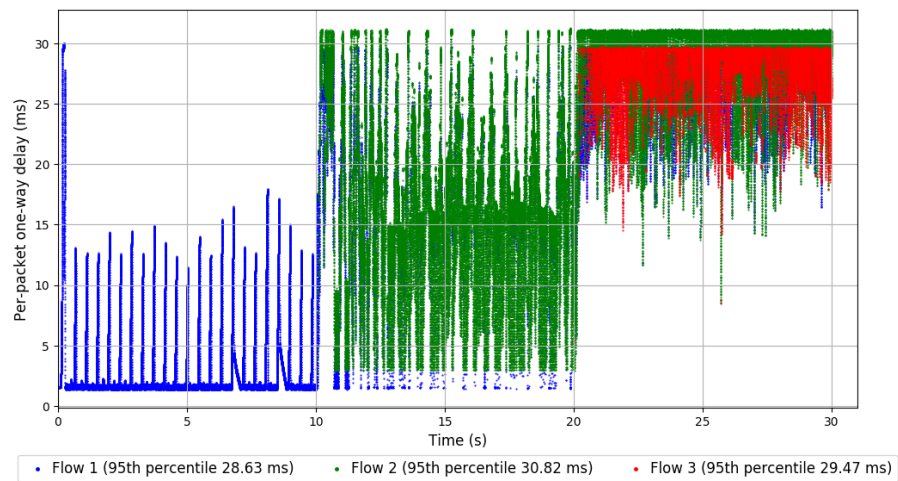
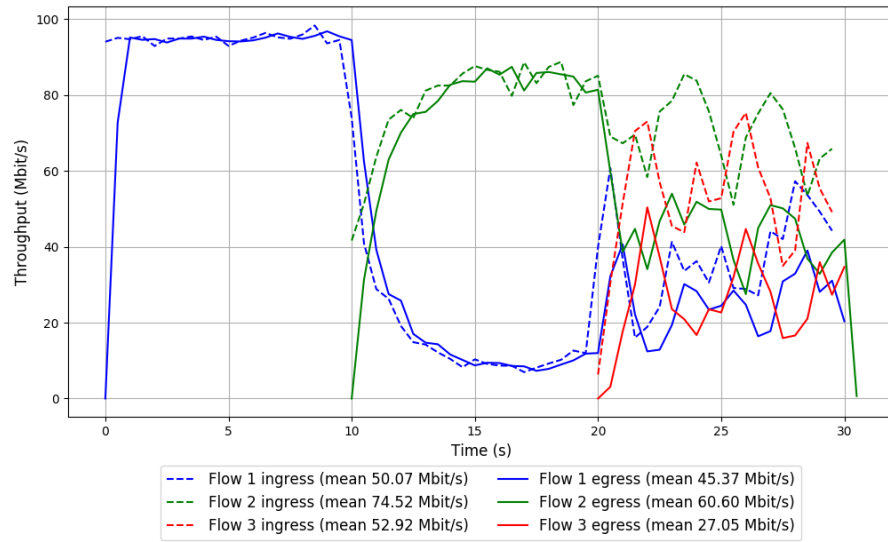
-- Flow 3:

Average throughput: 27.05 Mbit/s

95th percentile per-packet one-way delay: 29.471 ms

Loss rate: 48.78%

Run 5: Report of FillP — Data Link

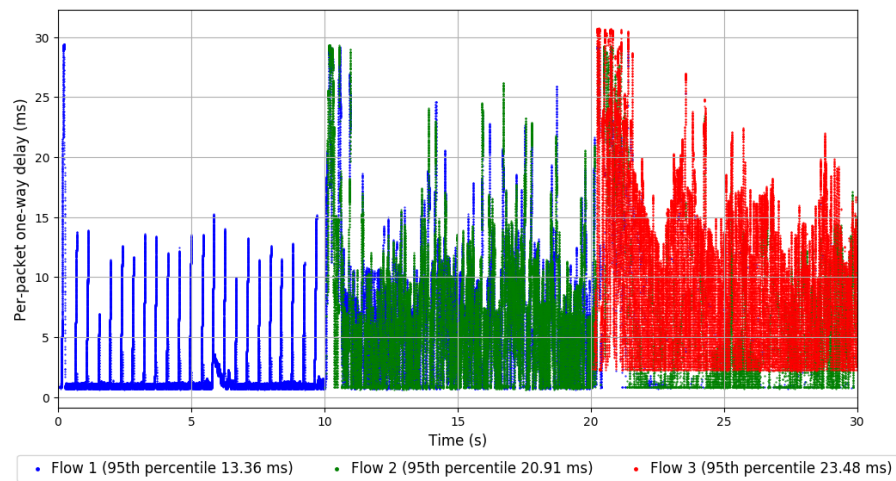
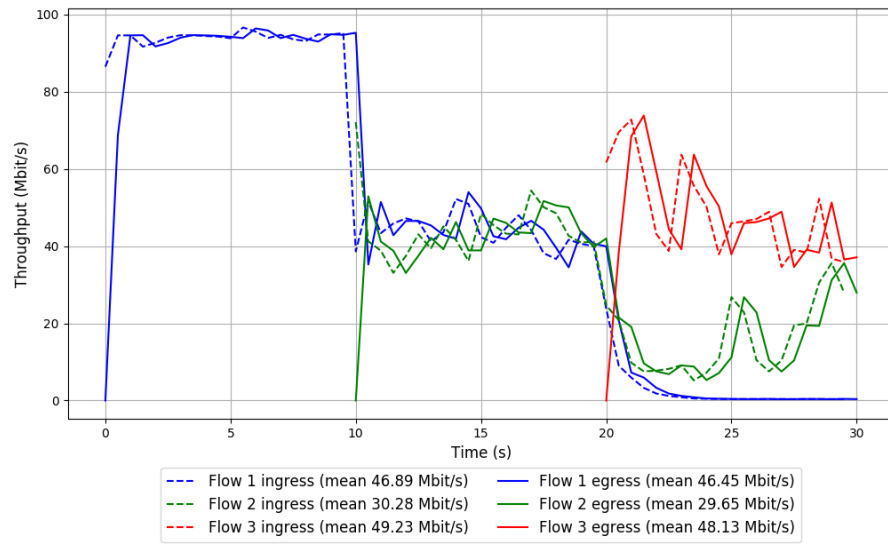


Run 1: Statistics of FillP-Sheep

Start at: 2018-11-30 07:34:46
End at: 2018-11-30 07:35:16
Local clock offset: -6.923 ms
Remote clock offset: -0.209 ms

Below is generated by plot.py at 2018-11-30 09:06:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.11 Mbit/s
95th percentile per-packet one-way delay: 18.941 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 46.45 Mbit/s
95th percentile per-packet one-way delay: 13.357 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 29.65 Mbit/s
95th percentile per-packet one-way delay: 20.907 ms
Loss rate: 2.05%
-- Flow 3:
Average throughput: 48.13 Mbit/s
95th percentile per-packet one-way delay: 23.481 ms
Loss rate: 2.14%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-11-30 07:56:24

End at: 2018-11-30 07:56:54

Local clock offset: -6.955 ms

Remote clock offset: 0.212 ms

Below is generated by plot.py at 2018-11-30 09:07:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.85 Mbit/s

95th percentile per-packet one-way delay: 25.328 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 56.38 Mbit/s

95th percentile per-packet one-way delay: 22.635 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 31.28 Mbit/s

95th percentile per-packet one-way delay: 26.066 ms

Loss rate: 1.42%

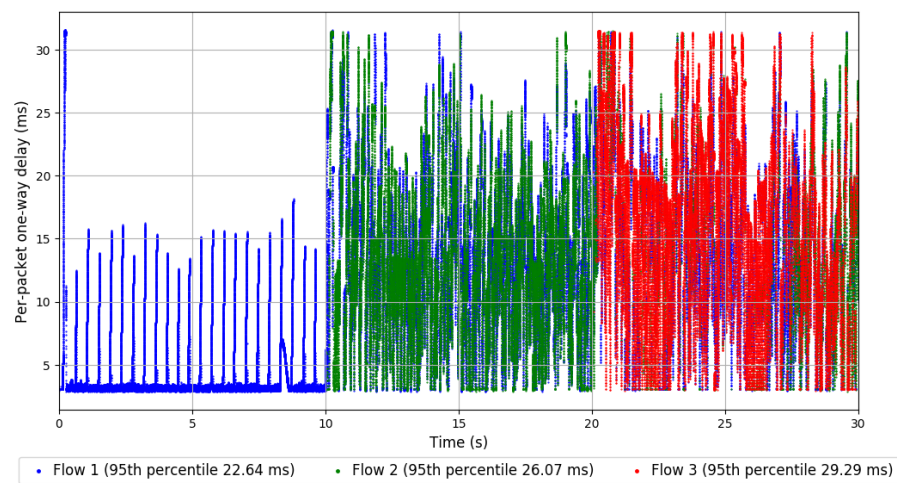
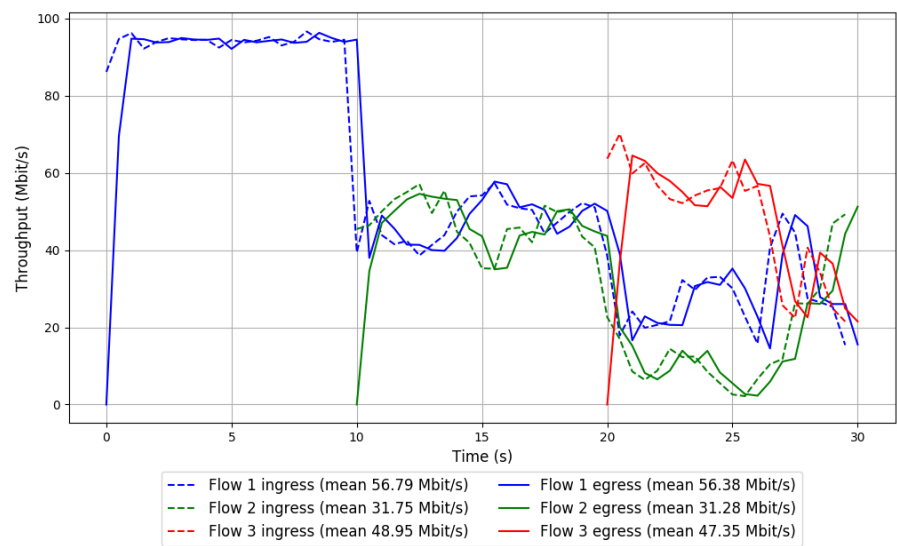
-- Flow 3:

Average throughput: 47.35 Mbit/s

95th percentile per-packet one-way delay: 29.290 ms

Loss rate: 3.27%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-11-30 08:18:01

End at: 2018-11-30 08:18:31

Local clock offset: -6.516 ms

Remote clock offset: 0.524 ms

Below is generated by plot.py at 2018-11-30 09:07:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.72 Mbit/s

95th percentile per-packet one-way delay: 21.074 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 40.02 Mbit/s

95th percentile per-packet one-way delay: 15.415 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 50.20 Mbit/s

95th percentile per-packet one-way delay: 21.630 ms

Loss rate: 0.69%

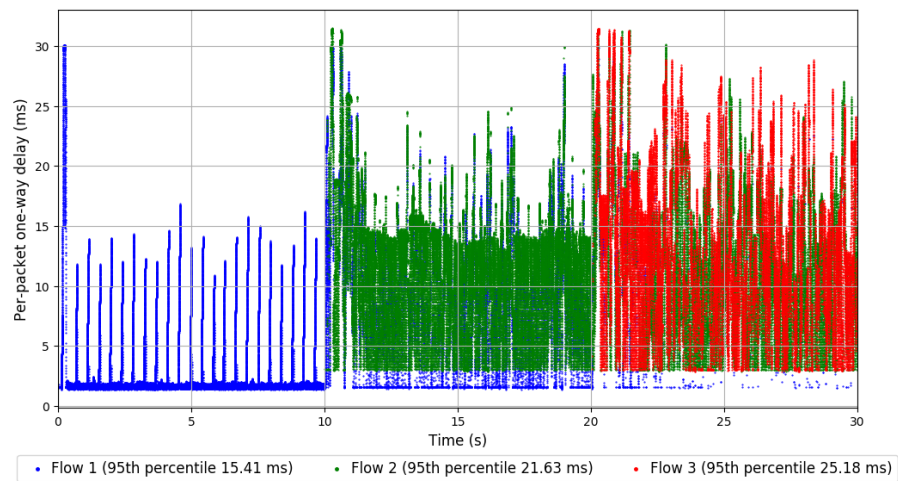
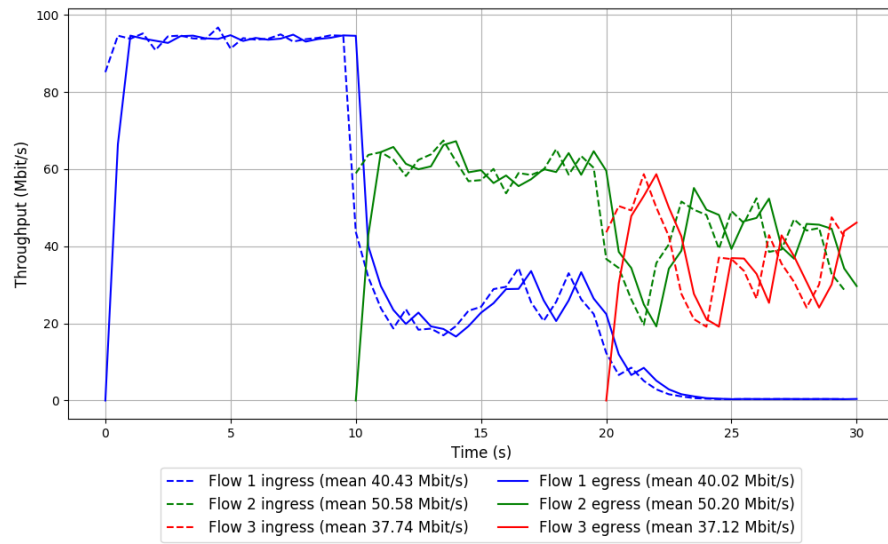
-- Flow 3:

Average throughput: 37.12 Mbit/s

95th percentile per-packet one-way delay: 25.184 ms

Loss rate: 1.61%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

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

End at: 2018-11-30 08:40:09

Local clock offset: -5.315 ms

Remote clock offset: 0.838 ms

Below is generated by plot.py at 2018-11-30 09:07:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.14 Mbit/s

95th percentile per-packet one-way delay: 16.993 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 40.85 Mbit/s

95th percentile per-packet one-way delay: 13.869 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 50.50 Mbit/s

95th percentile per-packet one-way delay: 18.313 ms

Loss rate: 0.47%

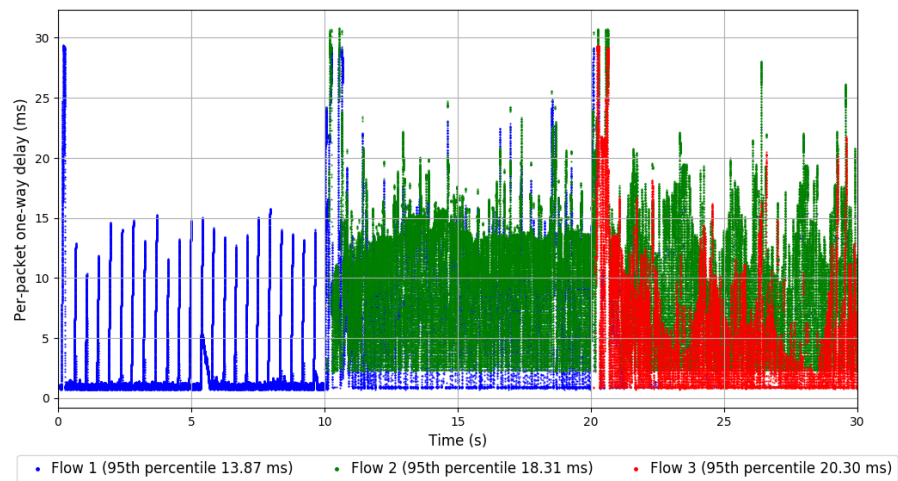
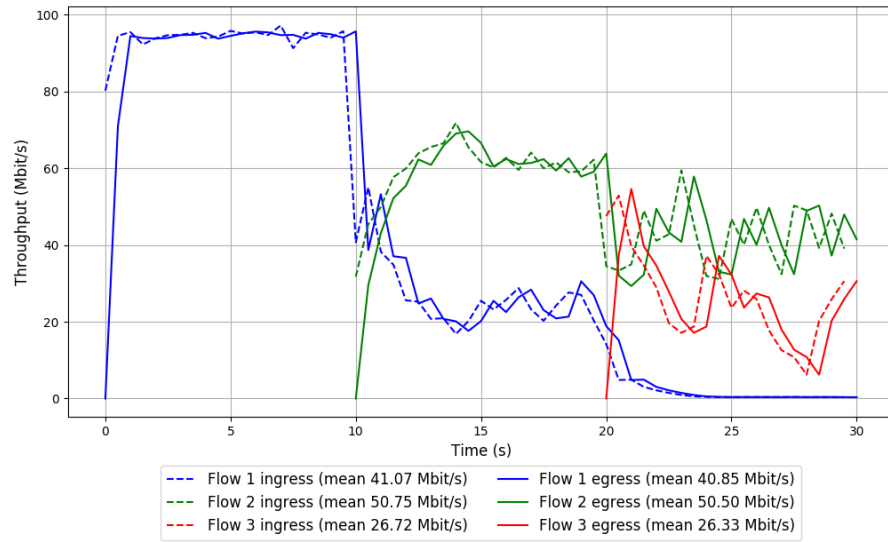
-- Flow 3:

Average throughput: 26.33 Mbit/s

95th percentile per-packet one-way delay: 20.302 ms

Loss rate: 1.60%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-11-30 09:01:17

End at: 2018-11-30 09:01:47

Local clock offset: -6.659 ms

Remote clock offset: 0.841 ms

Below is generated by plot.py at 2018-11-30 09:07:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.96 Mbit/s

95th percentile per-packet one-way delay: 21.216 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 46.57 Mbit/s

95th percentile per-packet one-way delay: 16.698 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 53.18 Mbit/s

95th percentile per-packet one-way delay: 22.817 ms

Loss rate: 0.69%

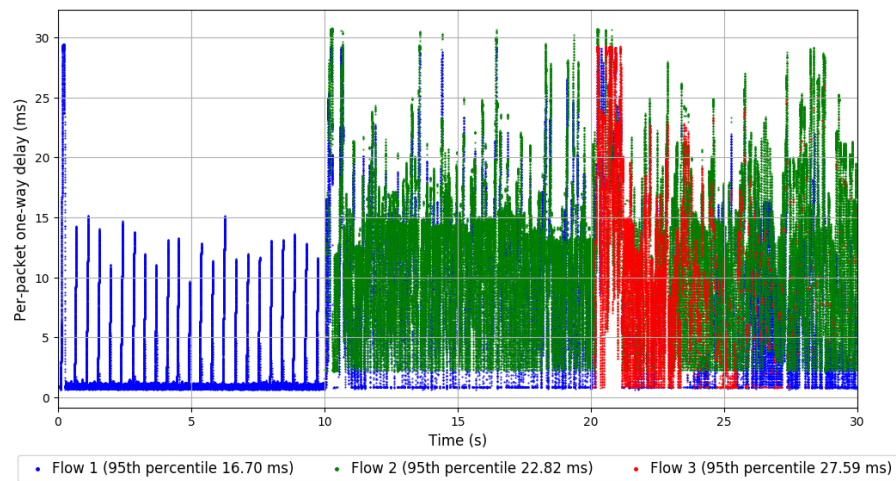
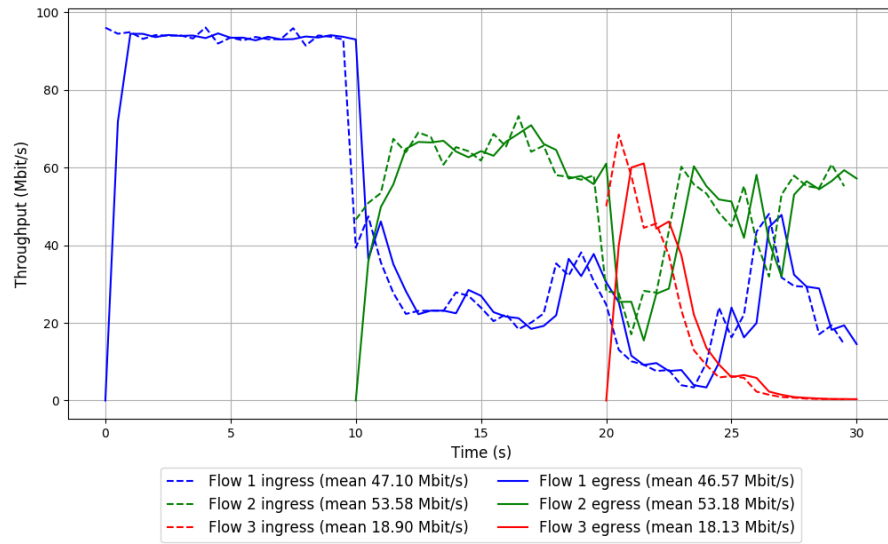
-- Flow 3:

Average throughput: 18.13 Mbit/s

95th percentile per-packet one-way delay: 27.588 ms

Loss rate: 4.03%

Run 5: Report of FillP-Sheep — Data Link

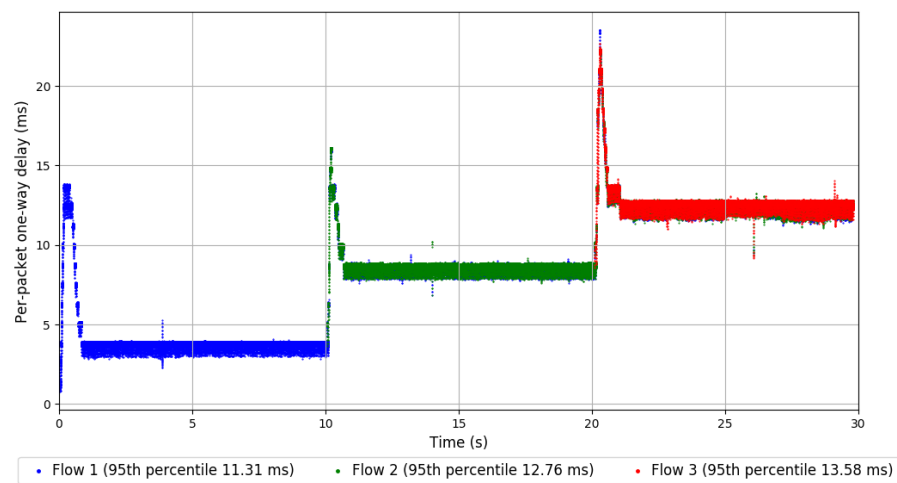
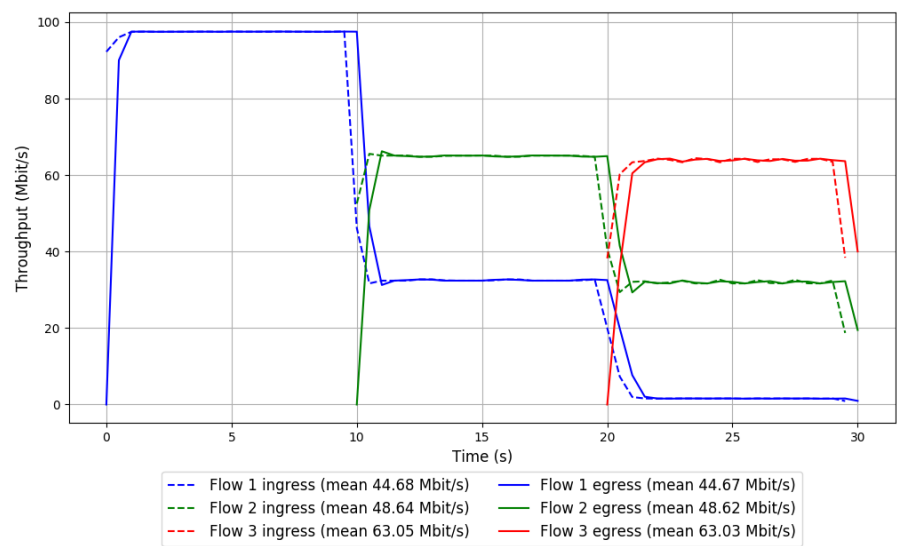


Run 1: Statistics of Indigo

Start at: 2018-11-30 07:17:39
End at: 2018-11-30 07:18:09
Local clock offset: -6.193 ms
Remote clock offset: -0.336 ms

Below is generated by plot.py at 2018-11-30 09:07:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.39 Mbit/s
95th percentile per-packet one-way delay: 12.759 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.67 Mbit/s
95th percentile per-packet one-way delay: 11.315 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 48.62 Mbit/s
95th percentile per-packet one-way delay: 12.755 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 63.03 Mbit/s
95th percentile per-packet one-way delay: 13.583 ms
Loss rate: 0.00%

Run 1: Report of Indigo — Data Link

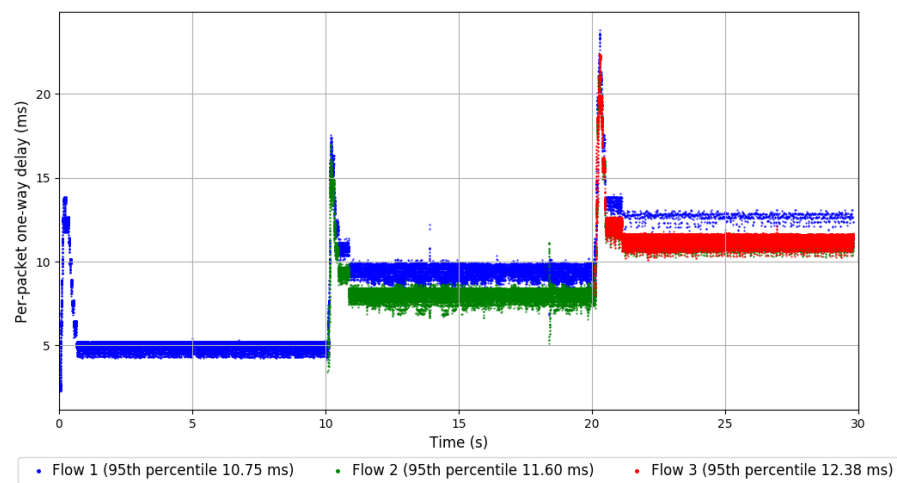
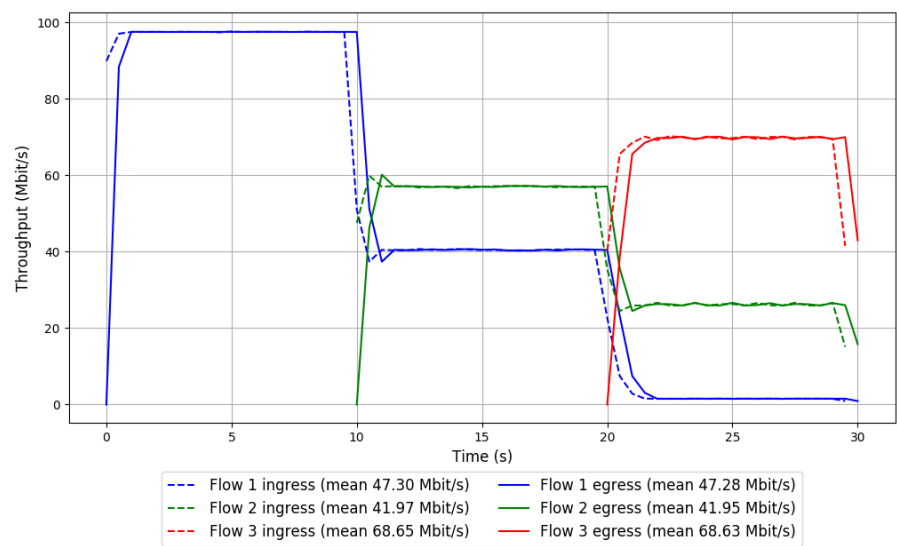


Run 2: Statistics of Indigo

Start at: 2018-11-30 07:39:18
End at: 2018-11-30 07:39:48
Local clock offset: -7.049 ms
Remote clock offset: -0.146 ms

Below is generated by plot.py at 2018-11-30 09:07:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.38 Mbit/s
95th percentile per-packet one-way delay: 11.810 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.28 Mbit/s
95th percentile per-packet one-way delay: 10.748 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.95 Mbit/s
95th percentile per-packet one-way delay: 11.596 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 68.63 Mbit/s
95th percentile per-packet one-way delay: 12.385 ms
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-11-30 08:00:56

End at: 2018-11-30 08:01:26

Local clock offset: -6.023 ms

Remote clock offset: 0.332 ms

Below is generated by plot.py at 2018-11-30 09:07:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.38 Mbit/s

95th percentile per-packet one-way delay: 12.024 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 47.49 Mbit/s

95th percentile per-packet one-way delay: 10.641 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.58 Mbit/s

95th percentile per-packet one-way delay: 10.859 ms

Loss rate: 0.00%

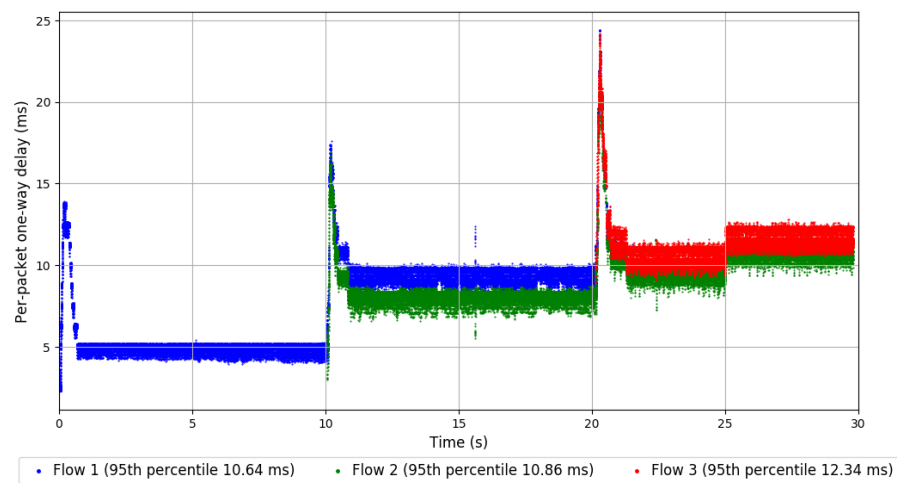
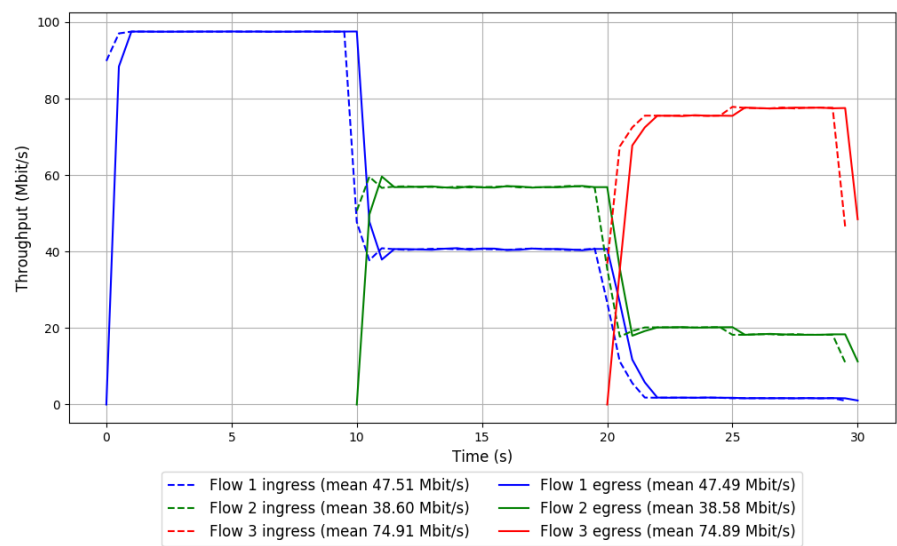
-- Flow 3:

Average throughput: 74.89 Mbit/s

95th percentile per-packet one-way delay: 12.339 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-11-30 08:22:32

End at: 2018-11-30 08:23:02

Local clock offset: -6.395 ms

Remote clock offset: 0.746 ms

Below is generated by plot.py at 2018-11-30 09:07:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.37 Mbit/s

95th percentile per-packet one-way delay: 13.431 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 46.82 Mbit/s

95th percentile per-packet one-way delay: 12.009 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.68 Mbit/s

95th percentile per-packet one-way delay: 13.700 ms

Loss rate: 0.00%

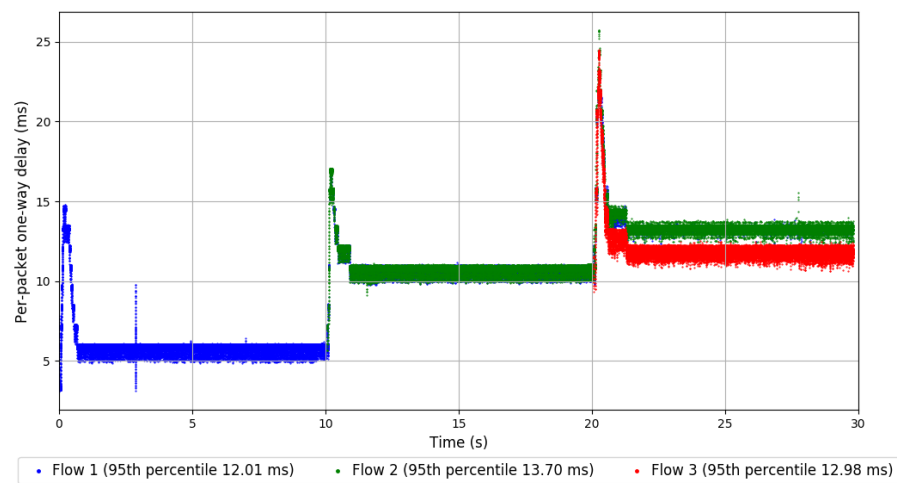
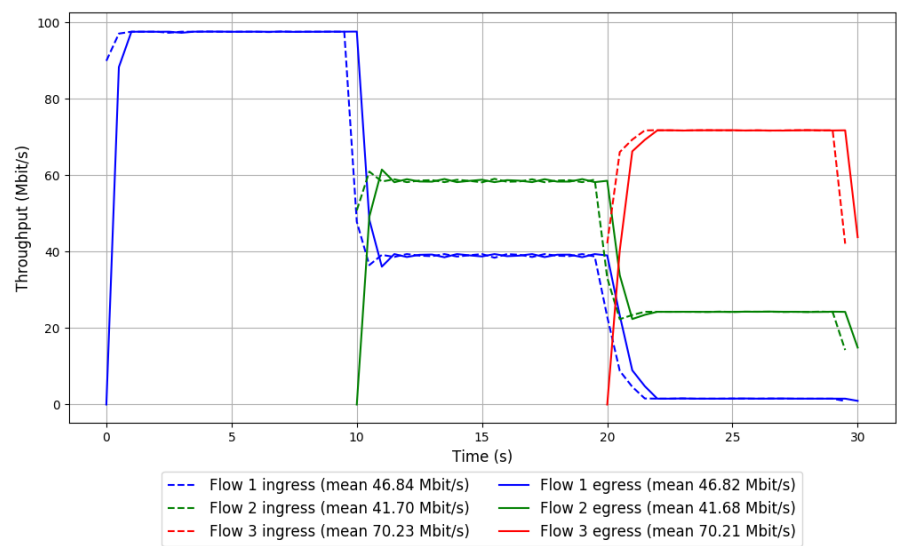
-- Flow 3:

Average throughput: 70.21 Mbit/s

95th percentile per-packet one-way delay: 12.979 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

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

End at: 2018-11-30 08:44:41

Local clock offset: -5.341 ms

Remote clock offset: 0.78 ms

Below is generated by plot.py at 2018-11-30 09:08:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.38 Mbit/s

95th percentile per-packet one-way delay: 12.597 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 46.78 Mbit/s

95th percentile per-packet one-way delay: 11.260 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.72 Mbit/s

95th percentile per-packet one-way delay: 12.847 ms

Loss rate: 0.00%

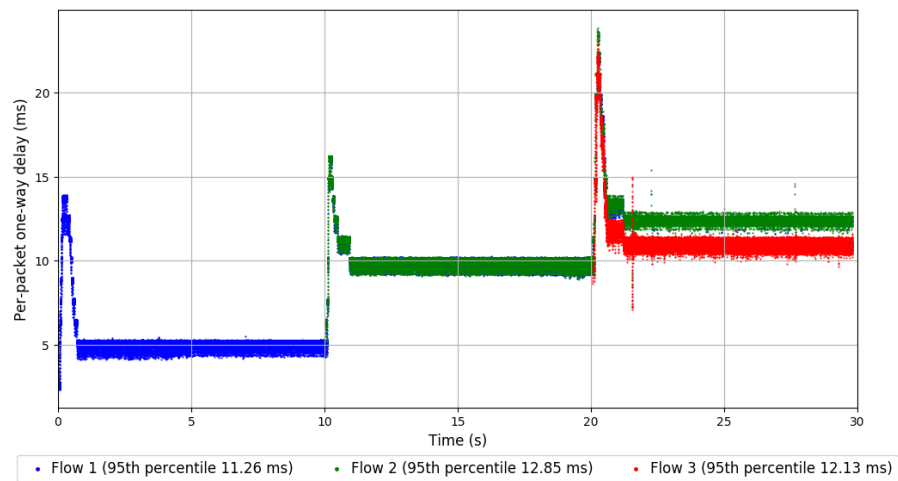
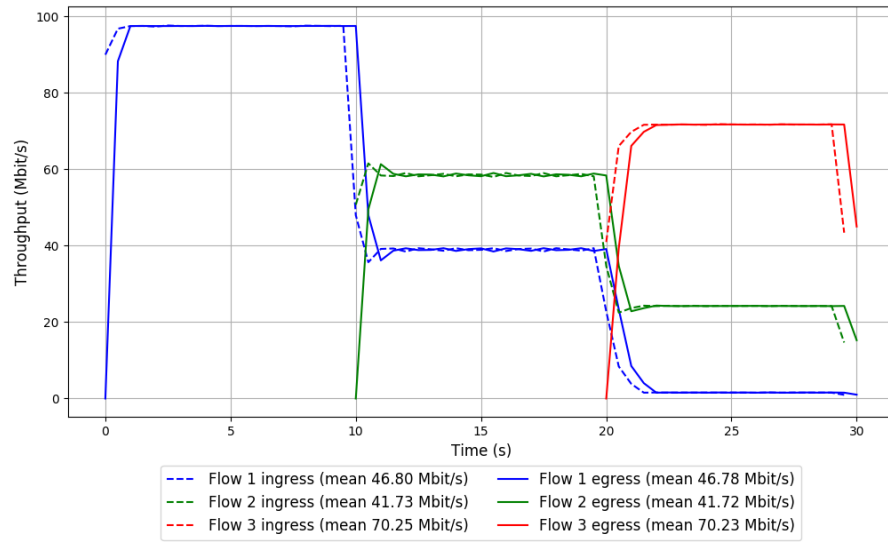
-- Flow 3:

Average throughput: 70.23 Mbit/s

95th percentile per-packet one-way delay: 12.133 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link

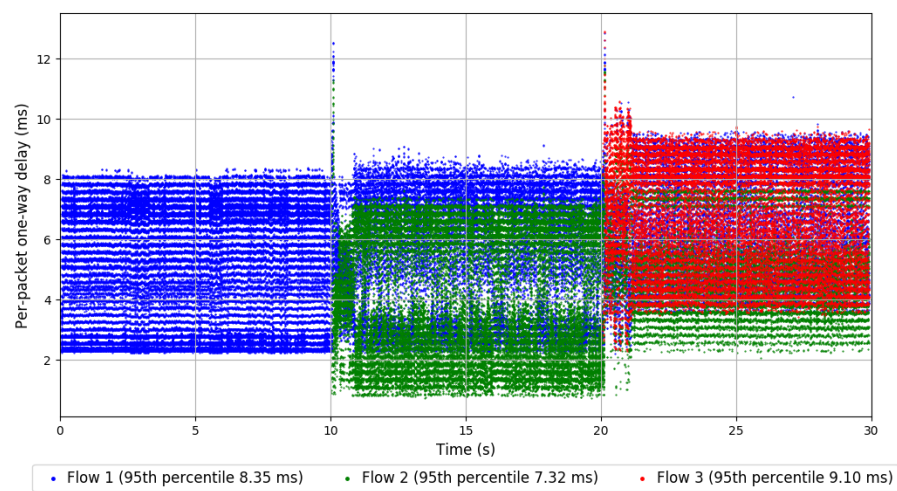
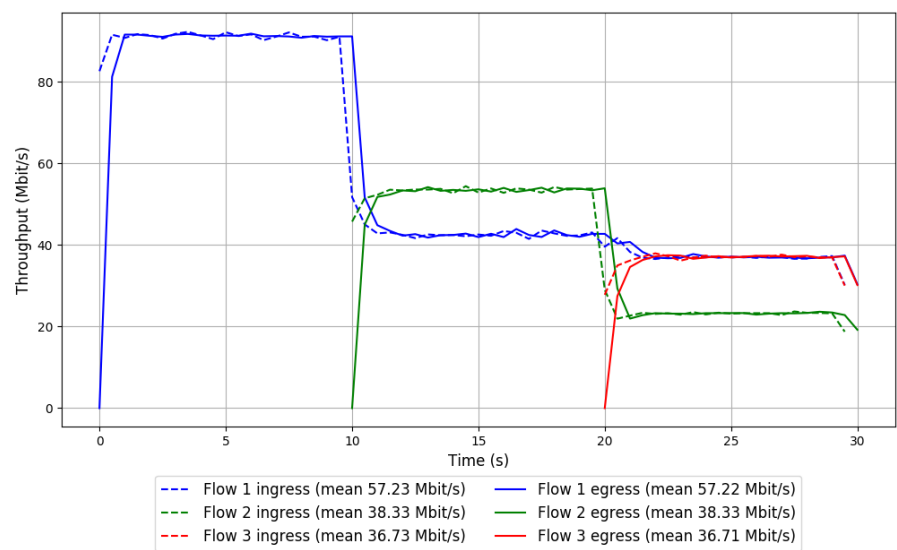


Run 1: Statistics of Indigo-96d2da3

Start at: 2018-11-30 07:27:54
End at: 2018-11-30 07:28:24
Local clock offset: -6.751 ms
Remote clock offset: -0.294 ms

Below is generated by plot.py at 2018-11-30 09:08:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.79 Mbit/s
95th percentile per-packet one-way delay: 8.569 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 57.22 Mbit/s
95th percentile per-packet one-way delay: 8.354 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.33 Mbit/s
95th percentile per-packet one-way delay: 7.317 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 36.71 Mbit/s
95th percentile per-packet one-way delay: 9.098 ms
Loss rate: 0.00%

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



Run 2: Statistics of Indigo-96d2da3

Start at: 2018-11-30 07:49:33

End at: 2018-11-30 07:50:03

Local clock offset: -6.566 ms

Remote clock offset: 0.11 ms

Below is generated by plot.py at 2018-11-30 09:08:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.29 Mbit/s

95th percentile per-packet one-way delay: 10.637 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.53 Mbit/s

95th percentile per-packet one-way delay: 8.631 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 32.44 Mbit/s

95th percentile per-packet one-way delay: 10.380 ms

Loss rate: 0.00%

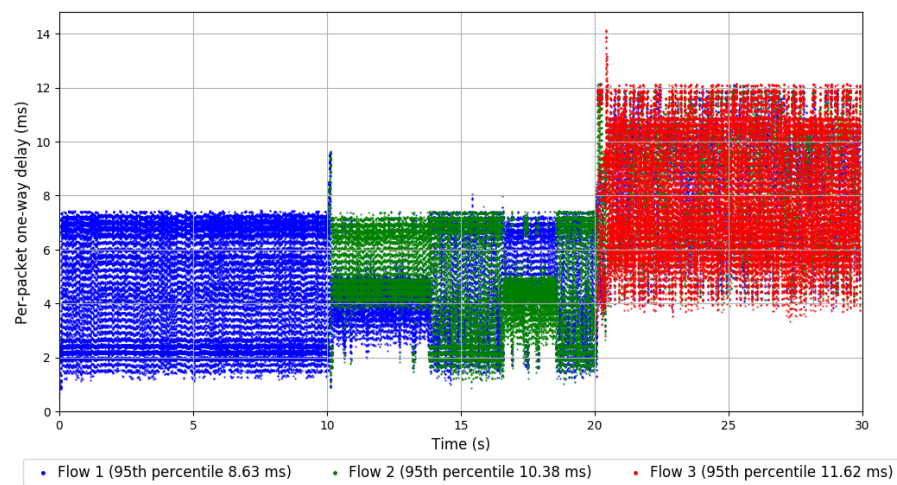
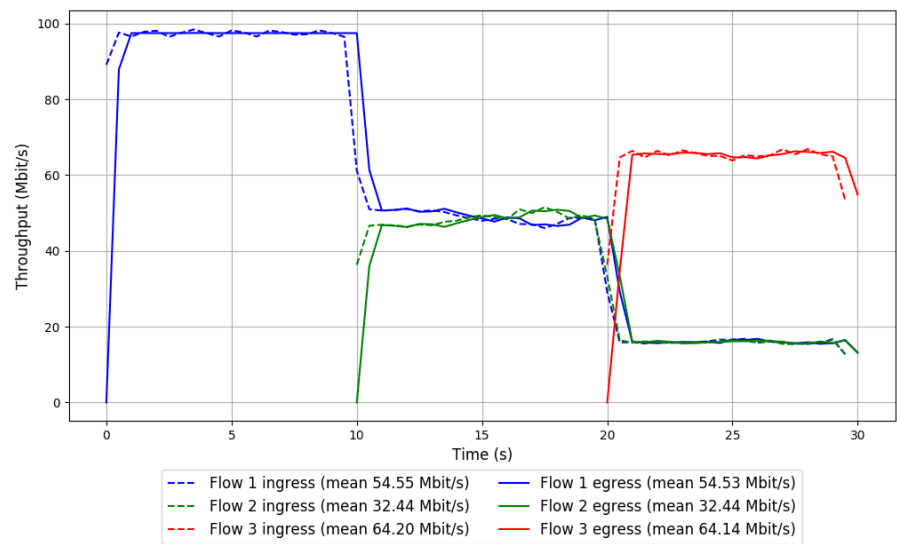
-- Flow 3:

Average throughput: 64.14 Mbit/s

95th percentile per-packet one-way delay: 11.616 ms

Loss rate: 0.00%

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



Run 3: Statistics of Indigo-96d2da3

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

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

Local clock offset: -5.835 ms

Remote clock offset: 0.437 ms

Below is generated by plot.py at 2018-11-30 09:08:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.46 Mbit/s

95th percentile per-packet one-way delay: 17.115 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 42.76 Mbit/s

95th percentile per-packet one-way delay: 12.757 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 56.49 Mbit/s

95th percentile per-packet one-way delay: 17.577 ms

Loss rate: 0.00%

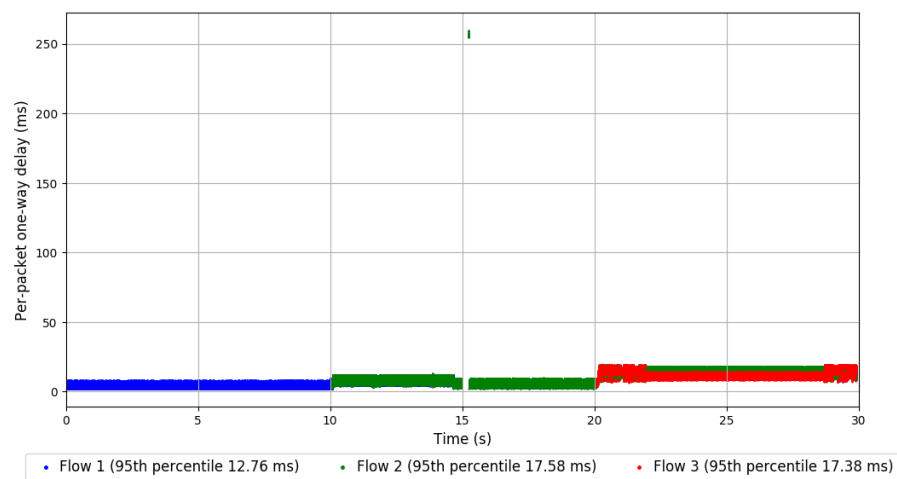
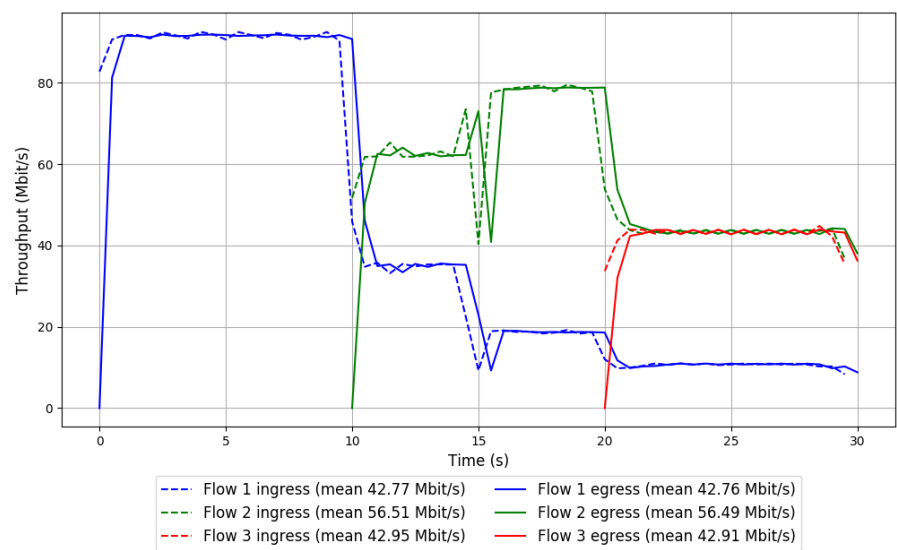
-- Flow 3:

Average throughput: 42.91 Mbit/s

95th percentile per-packet one-way delay: 17.375 ms

Loss rate: 0.00%

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



Run 4: Statistics of Indigo-96d2da3

Start at: 2018-11-30 08:32:47

End at: 2018-11-30 08:33:17

Local clock offset: -5.401 ms

Remote clock offset: 0.838 ms

Below is generated by plot.py at 2018-11-30 09:08:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.17 Mbit/s

95th percentile per-packet one-way delay: 10.055 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.29 Mbit/s

95th percentile per-packet one-way delay: 9.672 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 26.41 Mbit/s

95th percentile per-packet one-way delay: 11.613 ms

Loss rate: 0.00%

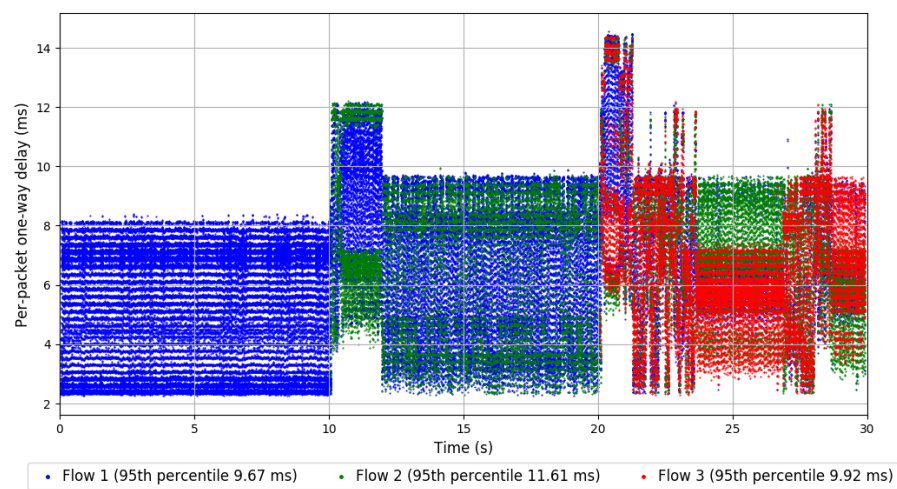
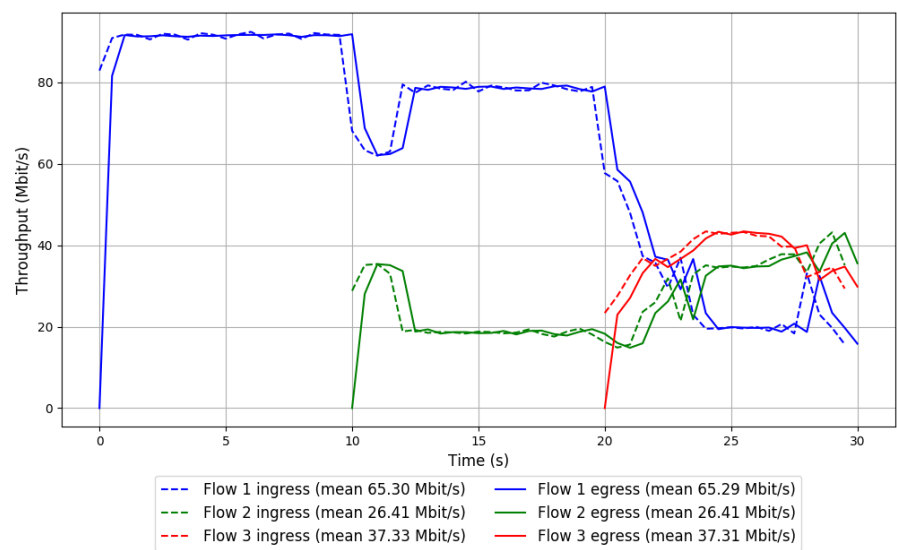
-- Flow 3:

Average throughput: 37.31 Mbit/s

95th percentile per-packet one-way delay: 9.917 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo-96d2da3

Start at: 2018-11-30 08:54:25

End at: 2018-11-30 08:54:55

Local clock offset: -6.315 ms

Remote clock offset: 0.717 ms

Below is generated by plot.py at 2018-11-30 09:08:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.28 Mbit/s

95th percentile per-packet one-way delay: 7.023 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 56.83 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 36.29 Mbit/s

95th percentile per-packet one-way delay: 7.009 ms

Loss rate: 0.00%

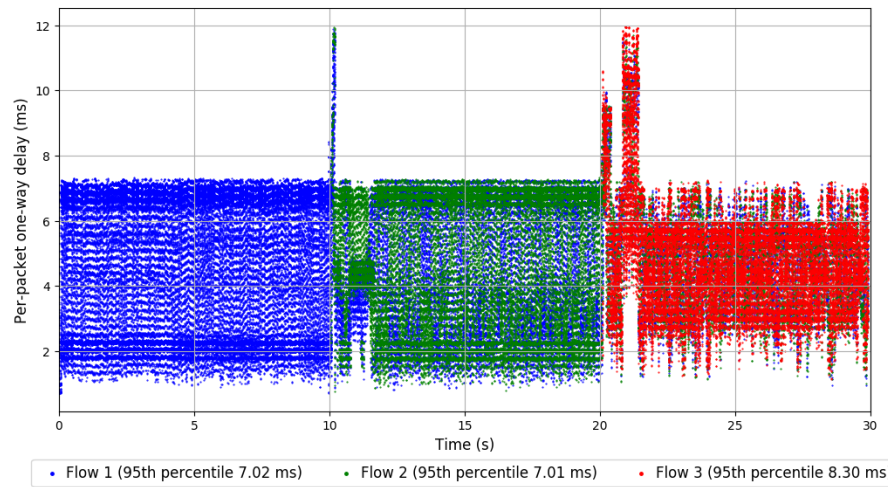
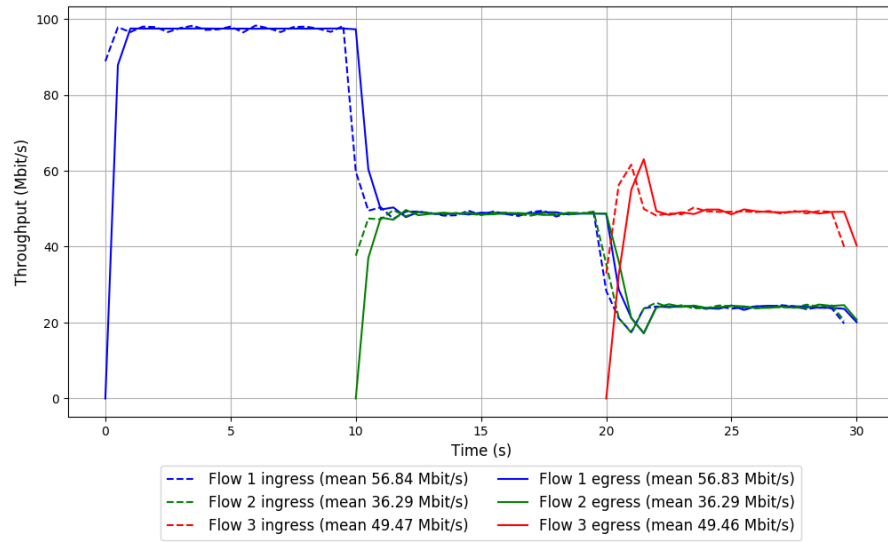
-- Flow 3:

Average throughput: 49.46 Mbit/s

95th percentile per-packet one-way delay: 8.301 ms

Loss rate: 0.00%

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

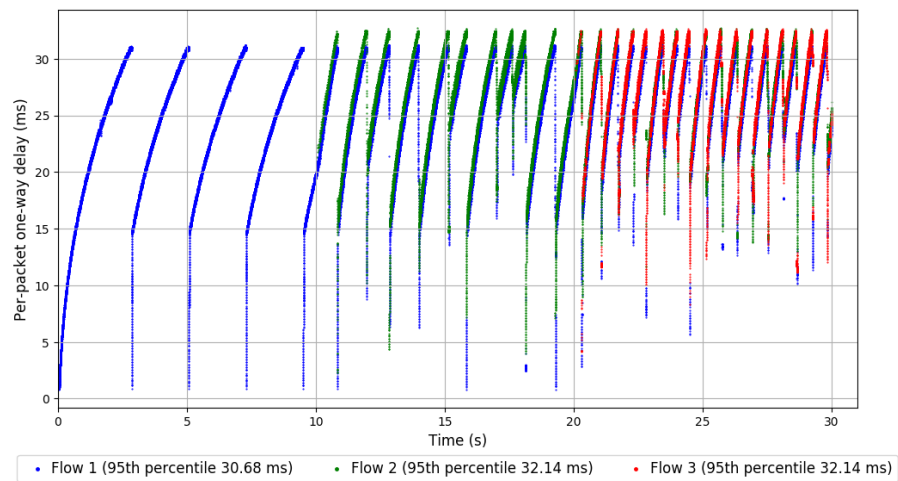
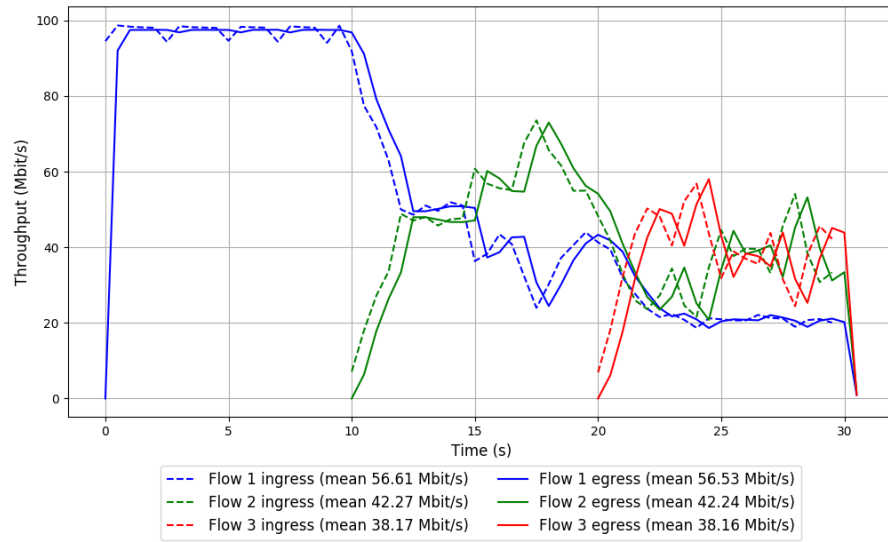


```
Run 1: Statistics of LEDBAT

Start at: 2018-11-30 07:14:16
End at: 2018-11-30 07:14:46
Local clock offset: -5.765 ms
Remote clock offset: -0.217 ms

# Below is generated by plot.py at 2018-11-30 09:08:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.32 Mbit/s
95th percentile per-packet one-way delay: 31.450 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 56.53 Mbit/s
95th percentile per-packet one-way delay: 30.683 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 42.24 Mbit/s
95th percentile per-packet one-way delay: 32.142 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 38.16 Mbit/s
95th percentile per-packet one-way delay: 32.143 ms
Loss rate: 0.04%
```

Run 1: Report of LEDBAT — Data Link

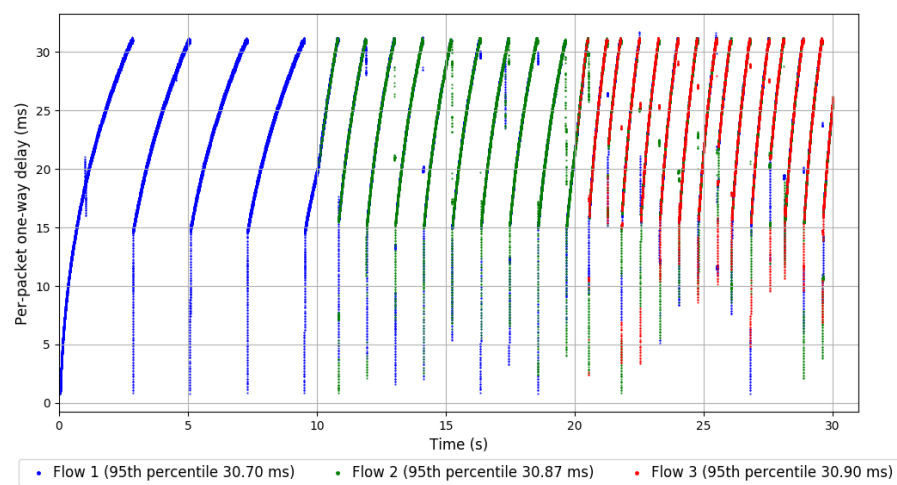
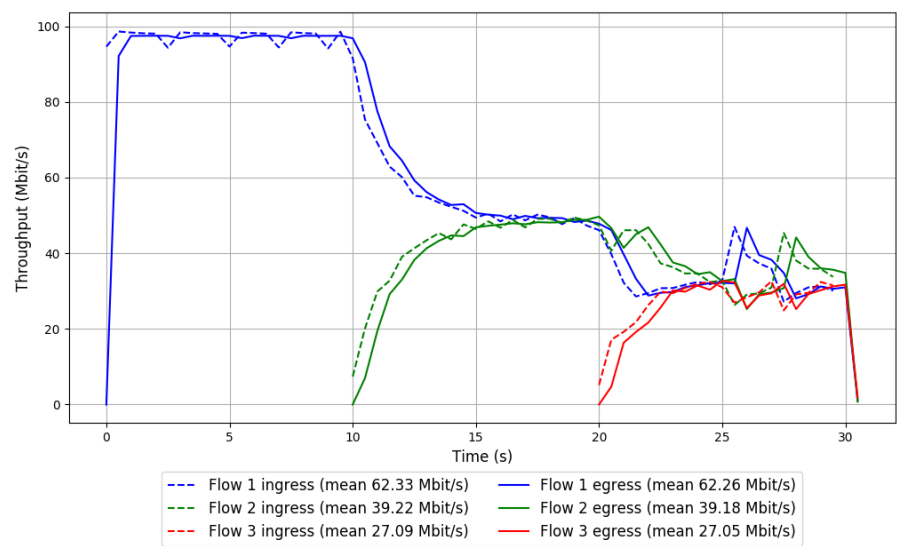


Run 2: Statistics of LEDBAT

Start at: 2018-11-30 07:35:54
End at: 2018-11-30 07:36:24
Local clock offset: -6.931 ms
Remote clock offset: -0.211 ms

Below is generated by plot.py at 2018-11-30 09:09:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.31 Mbit/s
95th percentile per-packet one-way delay: 30.717 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 62.26 Mbit/s
95th percentile per-packet one-way delay: 30.701 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 39.18 Mbit/s
95th percentile per-packet one-way delay: 30.872 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 27.05 Mbit/s
95th percentile per-packet one-way delay: 30.897 ms
Loss rate: 0.12%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-11-30 07:57:32

End at: 2018-11-30 07:58:02

Local clock offset: -6.204 ms

Remote clock offset: 0.232 ms

Below is generated by plot.py at 2018-11-30 09:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.16 Mbit/s

95th percentile per-packet one-way delay: 32.037 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 65.24 Mbit/s

95th percentile per-packet one-way delay: 32.042 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 38.91 Mbit/s

95th percentile per-packet one-way delay: 32.233 ms

Loss rate: 0.05%

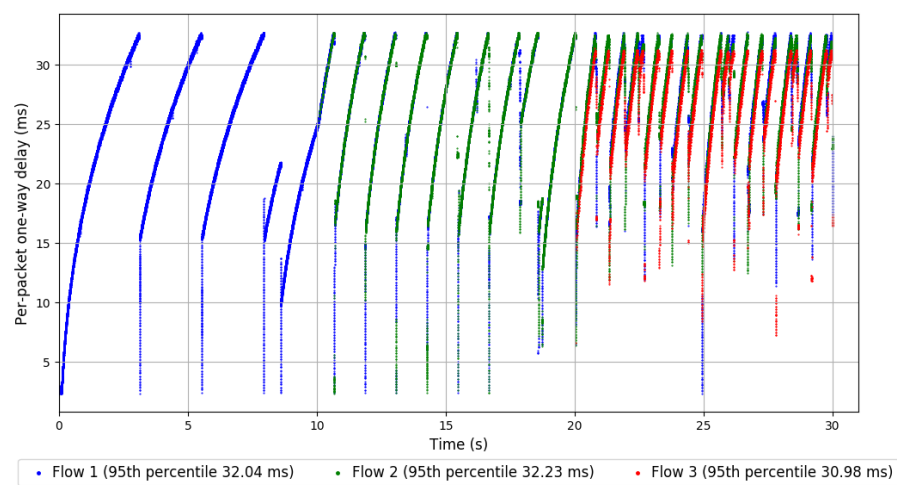
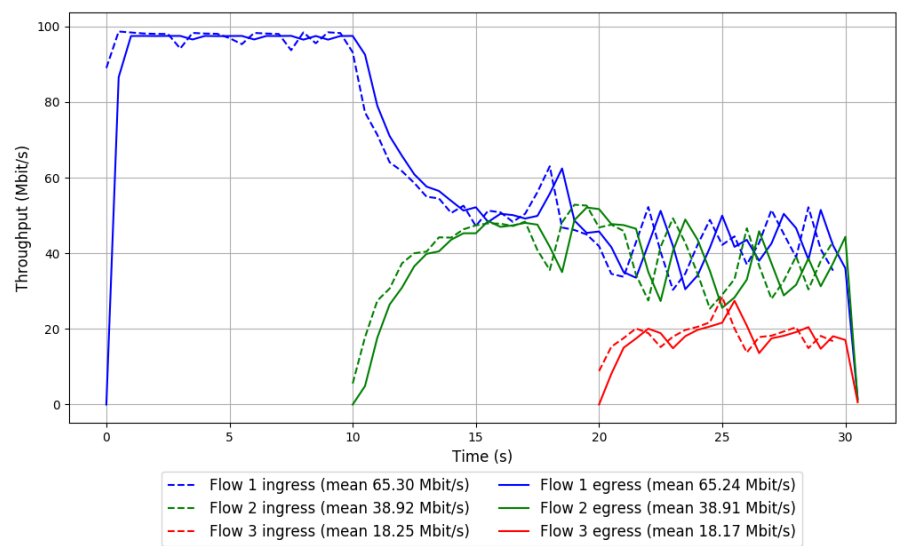
-- Flow 3:

Average throughput: 18.17 Mbit/s

95th percentile per-packet one-way delay: 30.984 ms

Loss rate: 0.44%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

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

End at: 2018-11-30 08:19:39

Local clock offset: -5.655 ms

Remote clock offset: 0.607 ms

Below is generated by plot.py at 2018-11-30 09:09:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.33 Mbit/s

95th percentile per-packet one-way delay: 30.721 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 62.36 Mbit/s

95th percentile per-packet one-way delay: 30.649 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 39.06 Mbit/s

95th percentile per-packet one-way delay: 30.685 ms

Loss rate: 0.06%

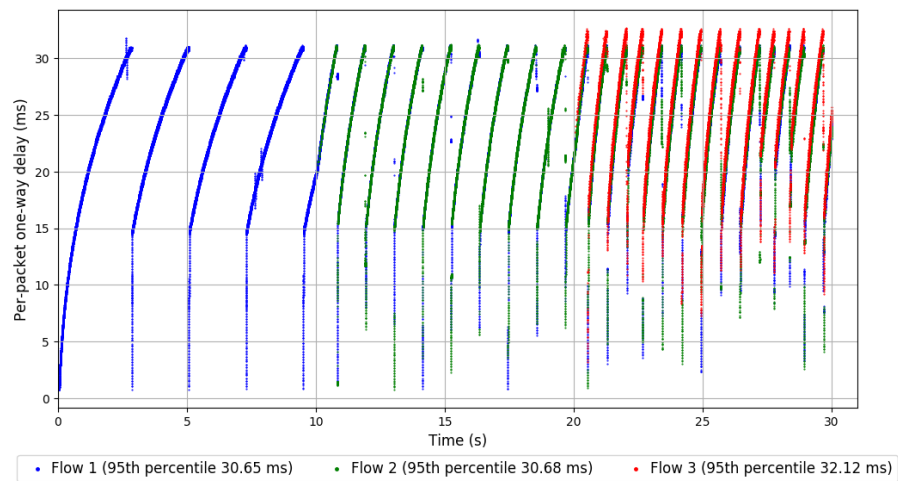
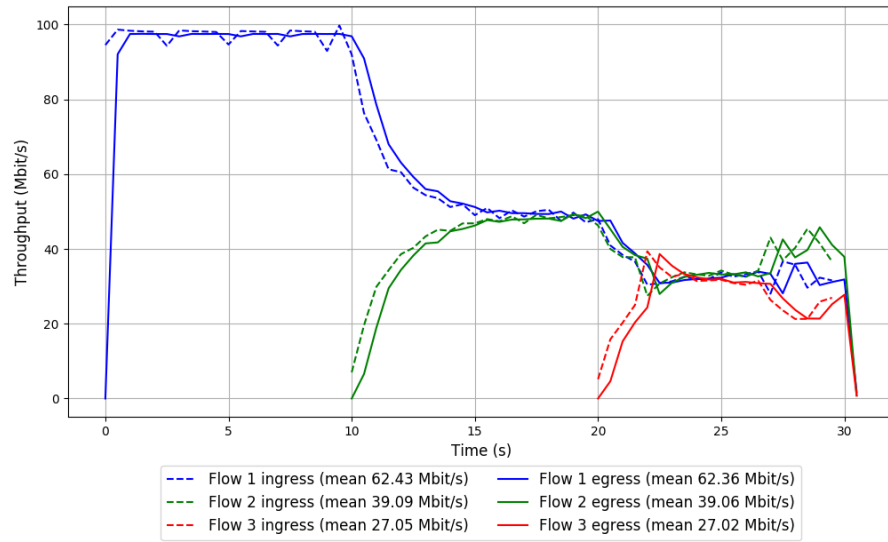
-- Flow 3:

Average throughput: 27.02 Mbit/s

95th percentile per-packet one-way delay: 32.116 ms

Loss rate: 0.10%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-11-30 08:40:47

End at: 2018-11-30 08:41:17

Local clock offset: -5.367 ms

Remote clock offset: 0.835 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.21 Mbit/s

95th percentile per-packet one-way delay: 32.315 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 62.17 Mbit/s

95th percentile per-packet one-way delay: 32.278 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 38.56 Mbit/s

95th percentile per-packet one-way delay: 32.351 ms

Loss rate: 0.06%

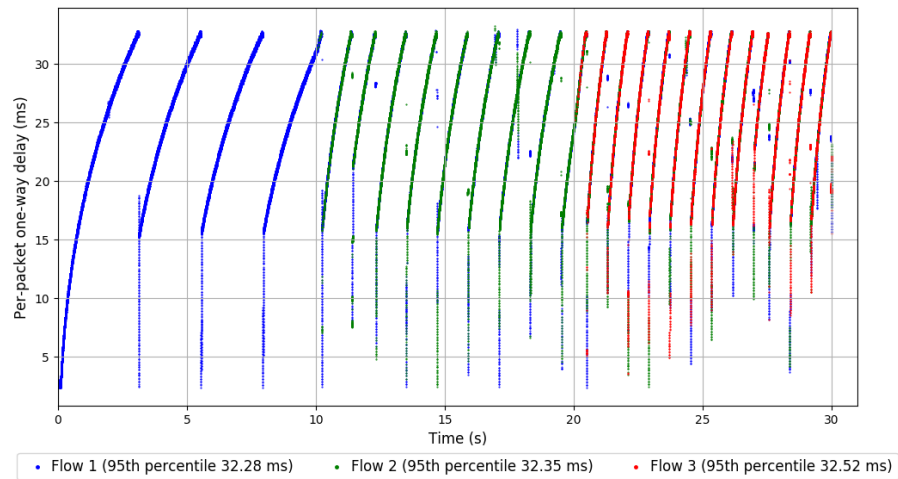
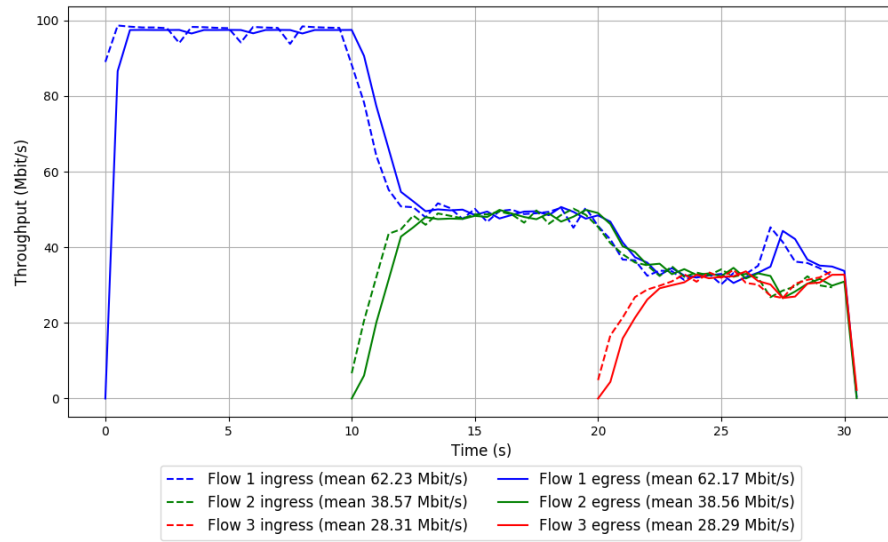
-- Flow 3:

Average throughput: 28.29 Mbit/s

95th percentile per-packet one-way delay: 32.517 ms

Loss rate: 0.10%

Run 5: Report of LEDBAT — Data Link

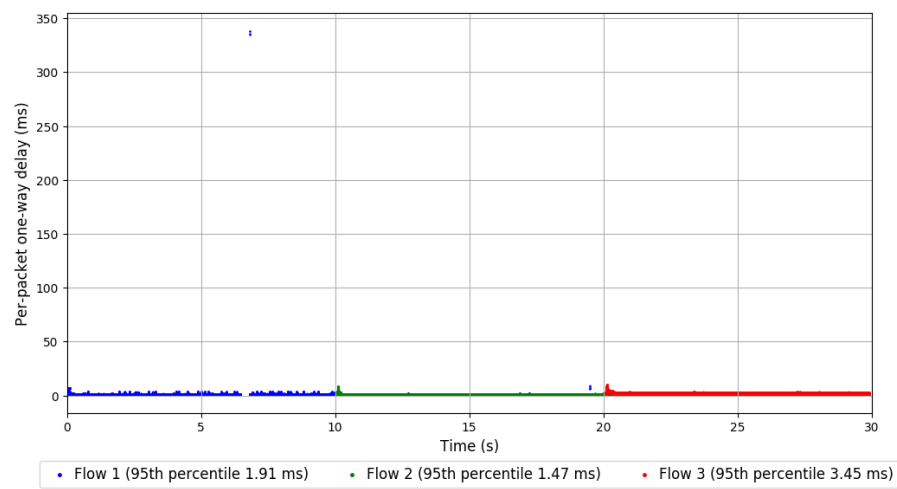
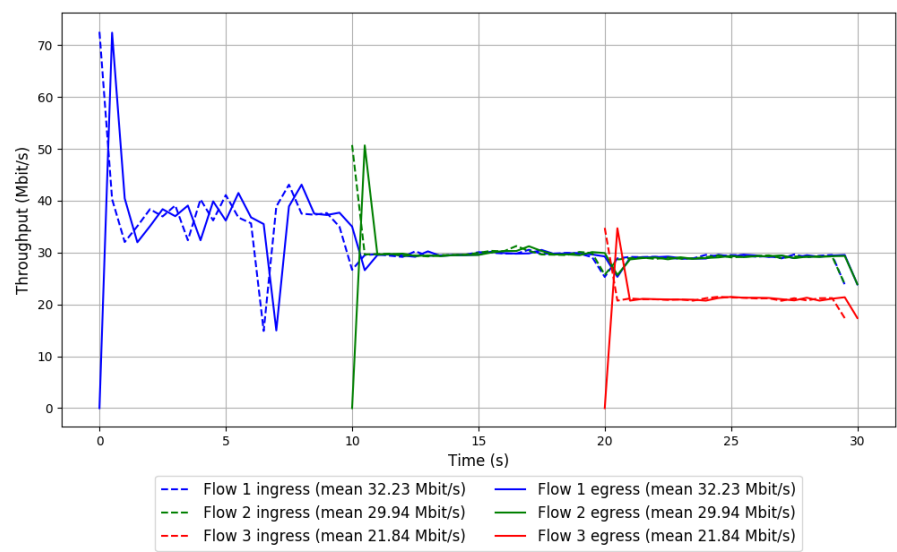



```
Run 1: Statistics of Indigo-Muses

Start at: 2018-11-30 07:18:50
End at: 2018-11-30 07:19:20
Local clock offset: -6.288 ms
Remote clock offset: -0.301 ms

# Below is generated by plot.py at 2018-11-30 09:09:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.34 Mbit/s
95th percentile per-packet one-way delay: 2.670 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.23 Mbit/s
95th percentile per-packet one-way delay: 1.906 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 29.94 Mbit/s
95th percentile per-packet one-way delay: 1.470 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 21.84 Mbit/s
95th percentile per-packet one-way delay: 3.448 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-Muses — Data Link

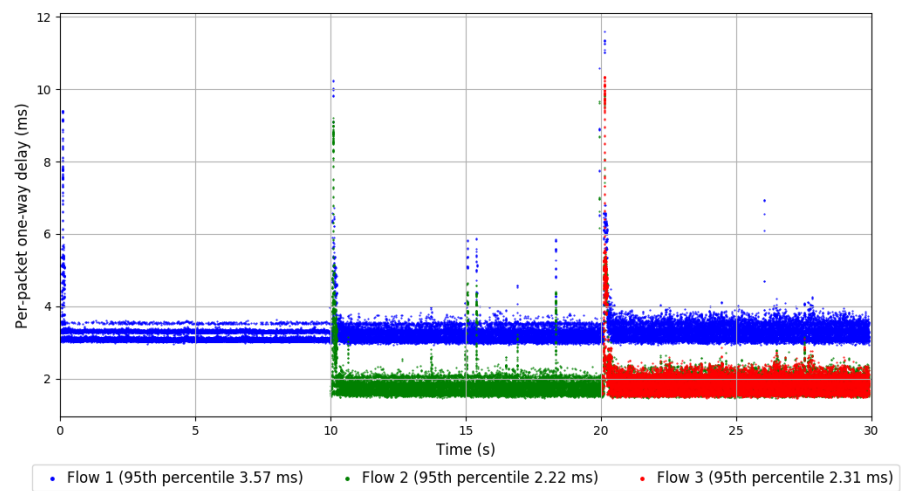
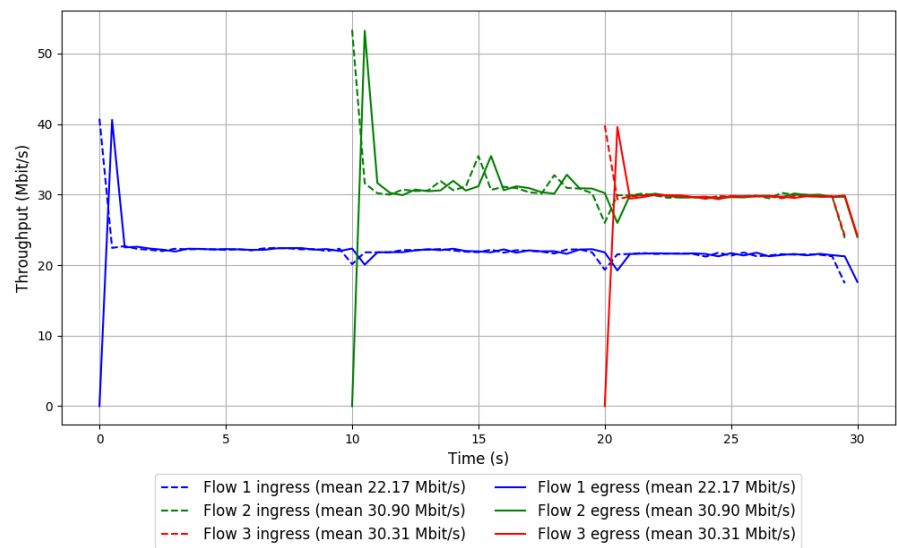


Run 2: Statistics of Indigo-Muses

Start at: 2018-11-30 07:40:28
End at: 2018-11-30 07:40:58
Local clock offset: -7.786 ms
Remote clock offset: -0.099 ms

Below is generated by plot.py at 2018-11-30 09:09:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 52.73 Mbit/s
95th percentile per-packet one-way delay: 3.500 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 22.17 Mbit/s
95th percentile per-packet one-way delay: 3.566 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 30.90 Mbit/s
95th percentile per-packet one-way delay: 2.222 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.31 Mbit/s
95th percentile per-packet one-way delay: 2.313 ms
Loss rate: 0.00%

Run 2: Report of Indigo-Muses — Data Link



Run 3: Statistics of Indigo-Muses

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

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

Local clock offset: -6.76 ms

Remote clock offset: 0.337 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.54 Mbit/s

95th percentile per-packet one-way delay: 3.572 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 22.27 Mbit/s

95th percentile per-packet one-way delay: 3.535 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 22.35 Mbit/s

95th percentile per-packet one-way delay: 3.577 ms

Loss rate: 0.00%

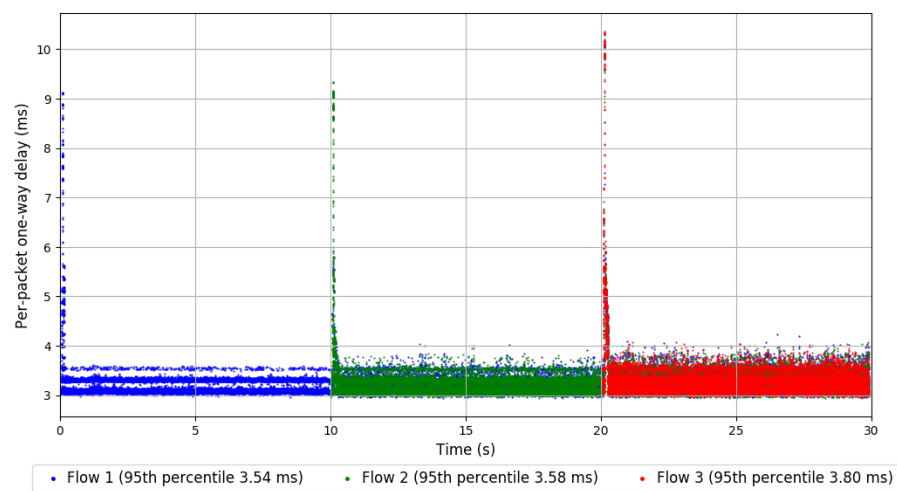
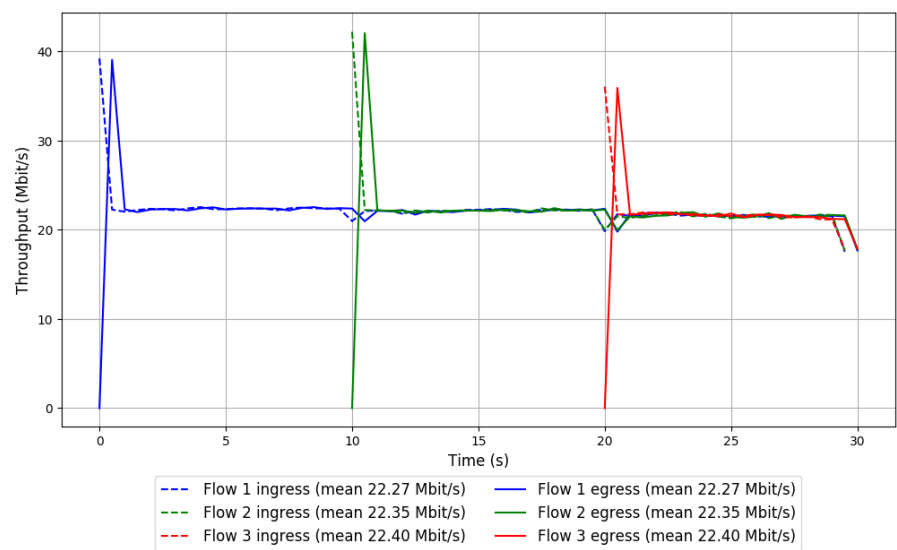
-- Flow 3:

Average throughput: 22.40 Mbit/s

95th percentile per-packet one-way delay: 3.797 ms

Loss rate: 0.00%

Run 3: Report of Indigo-Muses — Data Link



Run 4: Statistics of Indigo-Muses

Start at: 2018-11-30 08:23:43

End at: 2018-11-30 08:24:13

Local clock offset: -6.392 ms

Remote clock offset: 0.618 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.56 Mbit/s

95th percentile per-packet one-way delay: 3.550 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 32.69 Mbit/s

95th percentile per-packet one-way delay: 2.530 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 21.95 Mbit/s

95th percentile per-packet one-way delay: 3.666 ms

Loss rate: 0.00%

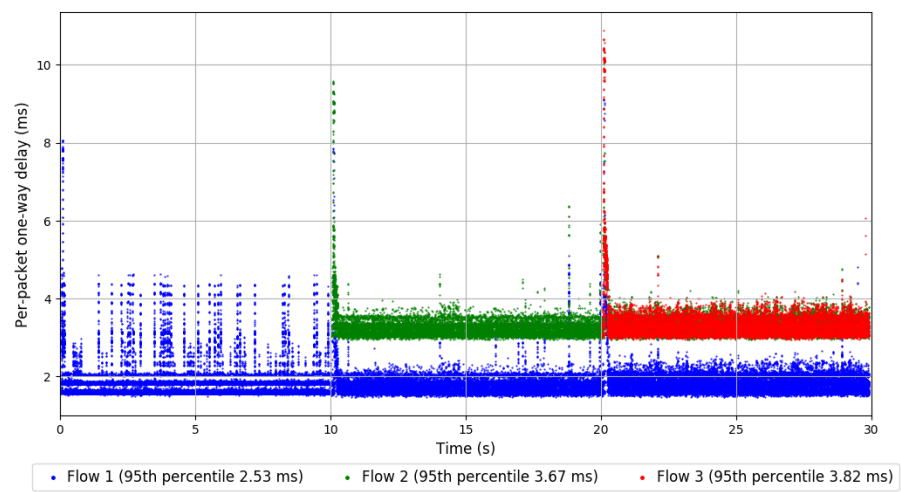
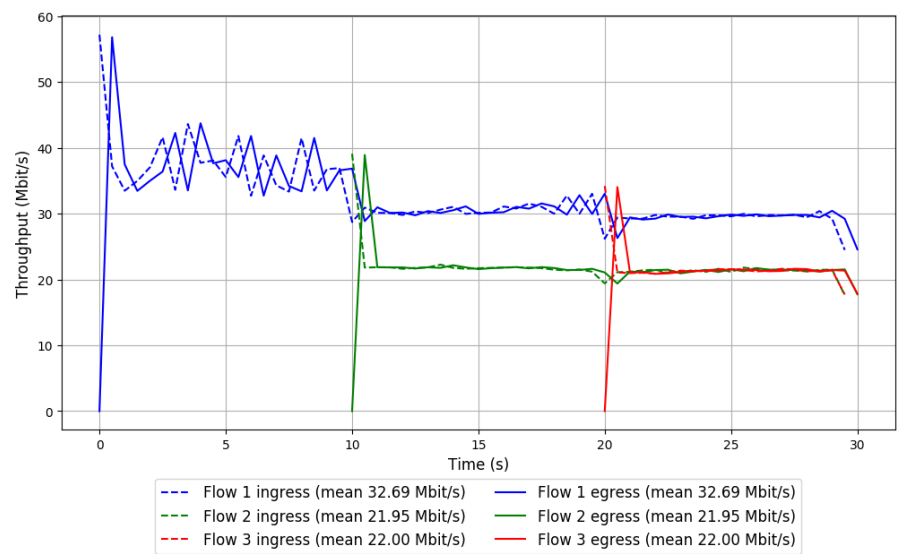
-- Flow 3:

Average throughput: 22.00 Mbit/s

95th percentile per-packet one-way delay: 3.824 ms

Loss rate: 0.00%

Run 4: Report of Indigo-Muses — Data Link



Run 5: Statistics of Indigo-Muses

Start at: 2018-11-30 08:45:21

End at: 2018-11-30 08:45:51

Local clock offset: -6.115 ms

Remote clock offset: 0.785 ms

Below is generated by plot.py at 2018-11-30 09:10:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.65 Mbit/s

95th percentile per-packet one-way delay: 2.259 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 33.28 Mbit/s

95th percentile per-packet one-way delay: 2.347 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 30.83 Mbit/s

95th percentile per-packet one-way delay: 2.177 ms

Loss rate: 0.00%

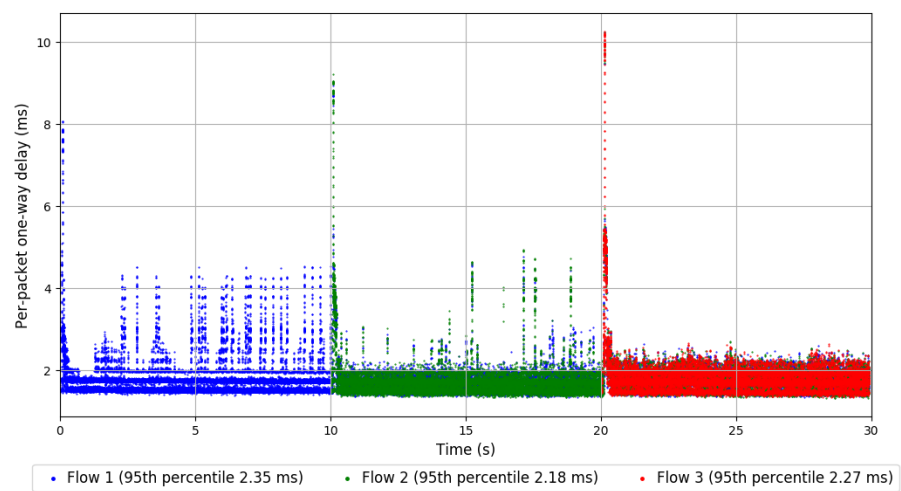
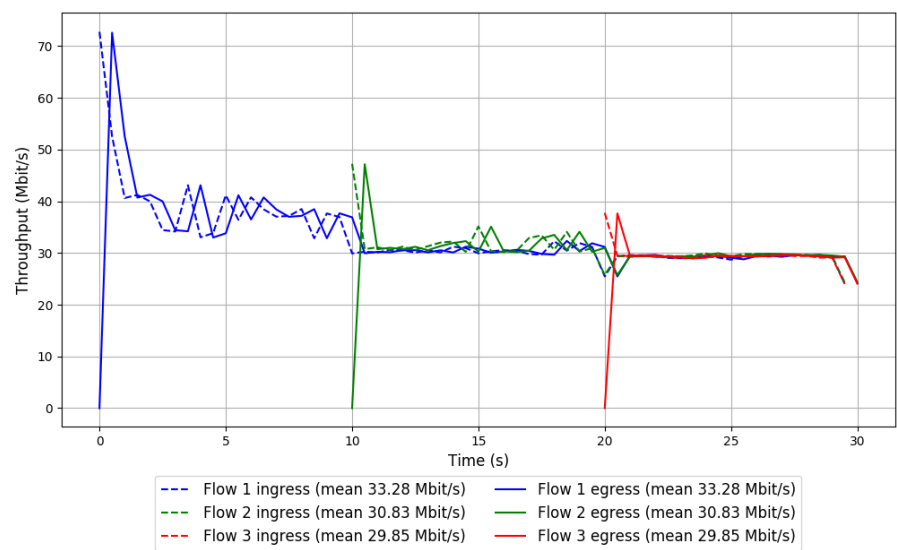
-- Flow 3:

Average throughput: 29.85 Mbit/s

95th percentile per-packet one-way delay: 2.266 ms

Loss rate: 0.00%

Run 5: Report of Indigo-Muses — Data Link

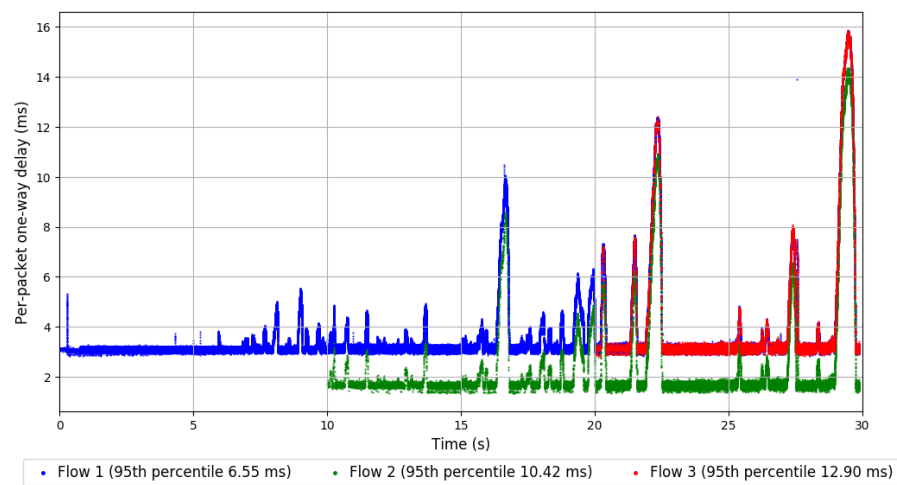
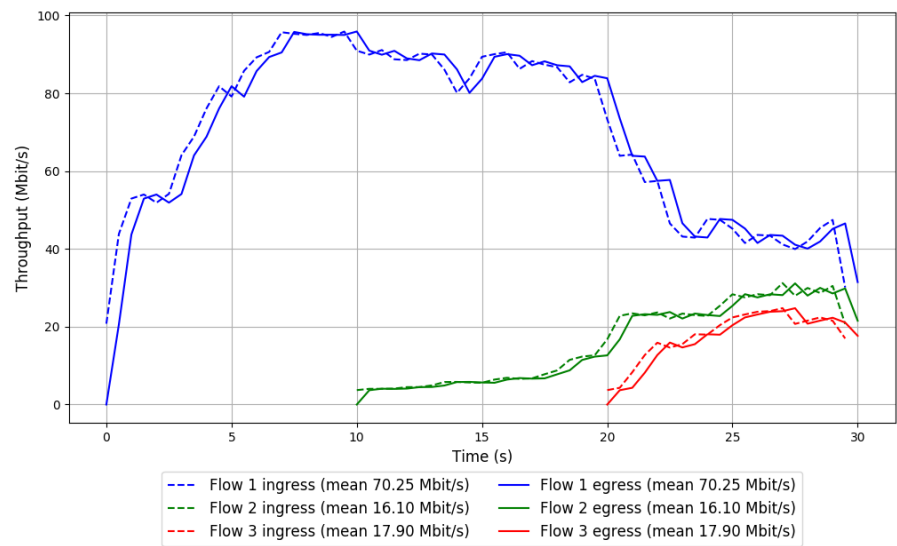


Run 1: Statistics of PCC-Allegro

Start at: 2018-11-30 07:19:58
End at: 2018-11-30 07:20:28
Local clock offset: -7.075 ms
Remote clock offset: -0.256 ms

Below is generated by plot.py at 2018-11-30 09:10:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.86 Mbit/s
95th percentile per-packet one-way delay: 7.415 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 70.25 Mbit/s
95th percentile per-packet one-way delay: 6.548 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 16.10 Mbit/s
95th percentile per-packet one-way delay: 10.422 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 17.90 Mbit/s
95th percentile per-packet one-way delay: 12.904 ms
Loss rate: 0.00%

Run 1: Report of PCC-Allegro — Data Link

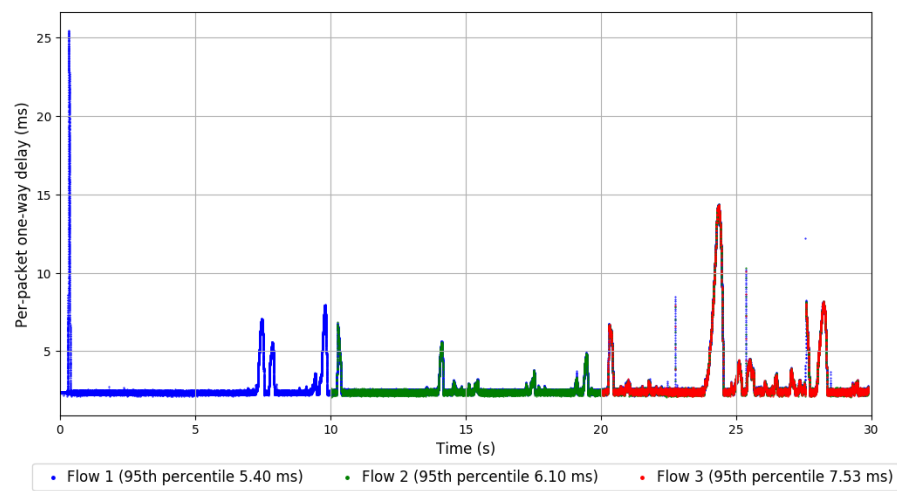
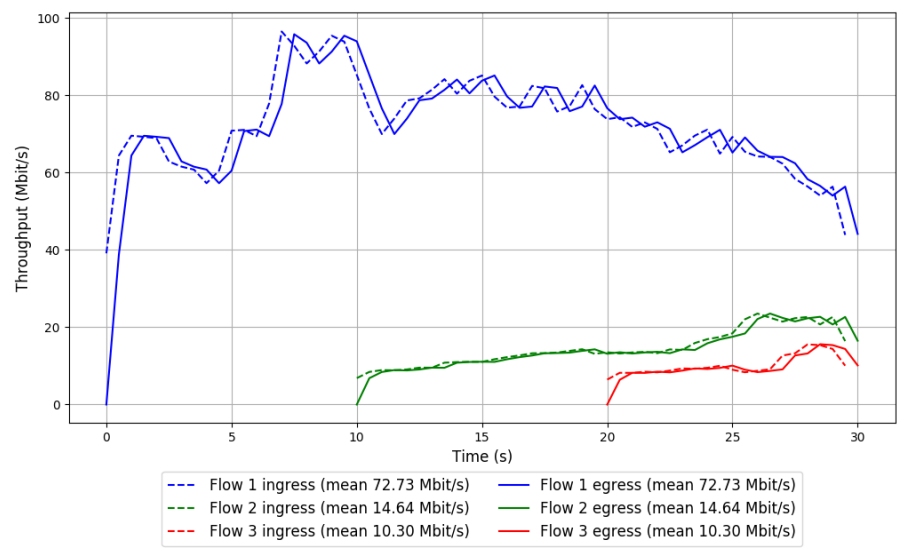


Run 2: Statistics of PCC-Allegro

Start at: 2018-11-30 07:41:36
End at: 2018-11-30 07:42:06
Local clock offset: -7.039 ms
Remote clock offset: -0.028 ms

Below is generated by plot.py at 2018-11-30 09:10:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.86 Mbit/s
95th percentile per-packet one-way delay: 5.527 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 72.73 Mbit/s
95th percentile per-packet one-way delay: 5.396 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 14.64 Mbit/s
95th percentile per-packet one-way delay: 6.098 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.30 Mbit/s
95th percentile per-packet one-way delay: 7.528 ms
Loss rate: 0.00%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-11-30 08:03:14

End at: 2018-11-30 08:03:44

Local clock offset: -6.043 ms

Remote clock offset: 0.353 ms

Below is generated by plot.py at 2018-11-30 09:10:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.51 Mbit/s

95th percentile per-packet one-way delay: 25.471 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 65.12 Mbit/s

95th percentile per-packet one-way delay: 19.154 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 24.26 Mbit/s

95th percentile per-packet one-way delay: 30.526 ms

Loss rate: 0.10%

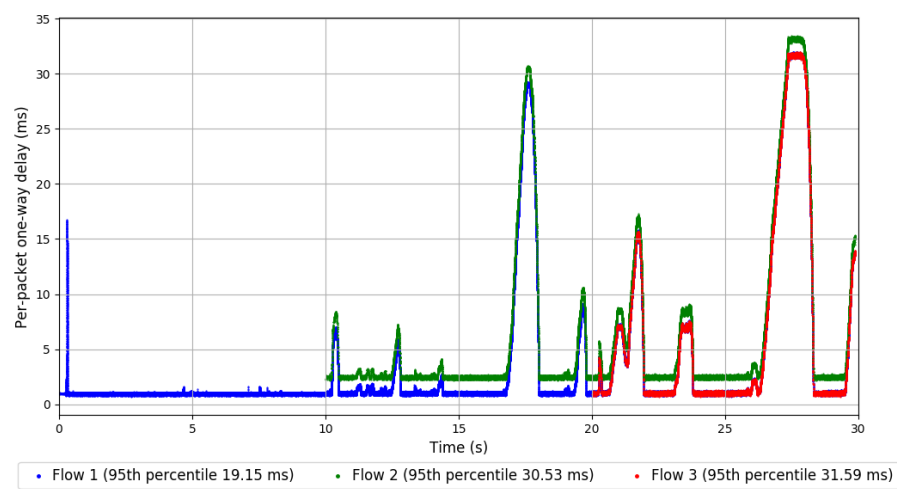
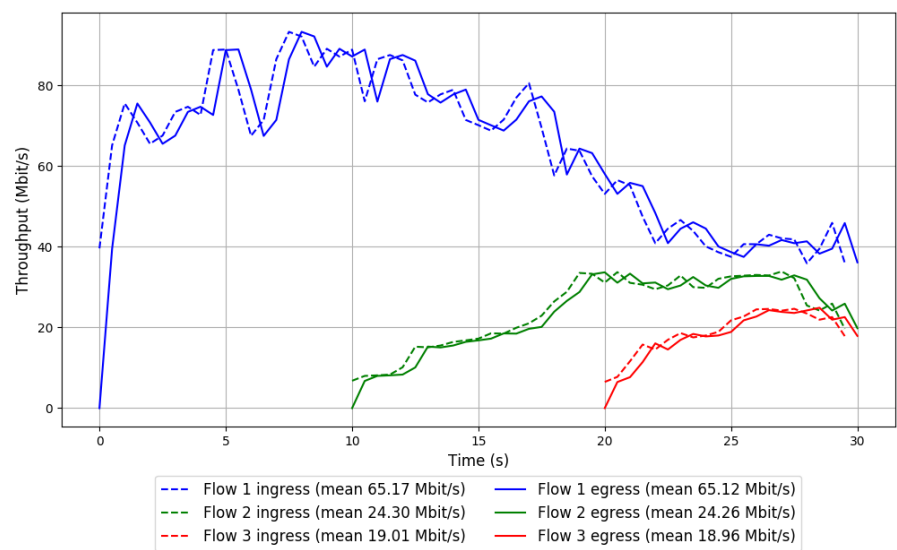
-- Flow 3:

Average throughput: 18.96 Mbit/s

95th percentile per-packet one-way delay: 31.585 ms

Loss rate: 0.14%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-11-30 08:24:50

End at: 2018-11-30 08:25:20

Local clock offset: -5.537 ms

Remote clock offset: 0.732 ms

Below is generated by plot.py at 2018-11-30 09:10:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.33 Mbit/s

95th percentile per-packet one-way delay: 32.984 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 69.35 Mbit/s

95th percentile per-packet one-way delay: 31.028 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 10.43 Mbit/s

95th percentile per-packet one-way delay: 33.075 ms

Loss rate: 0.22%

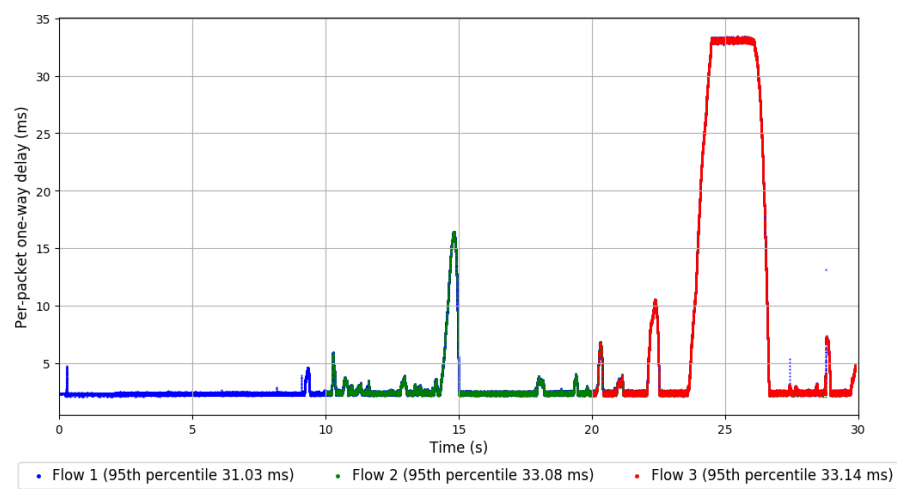
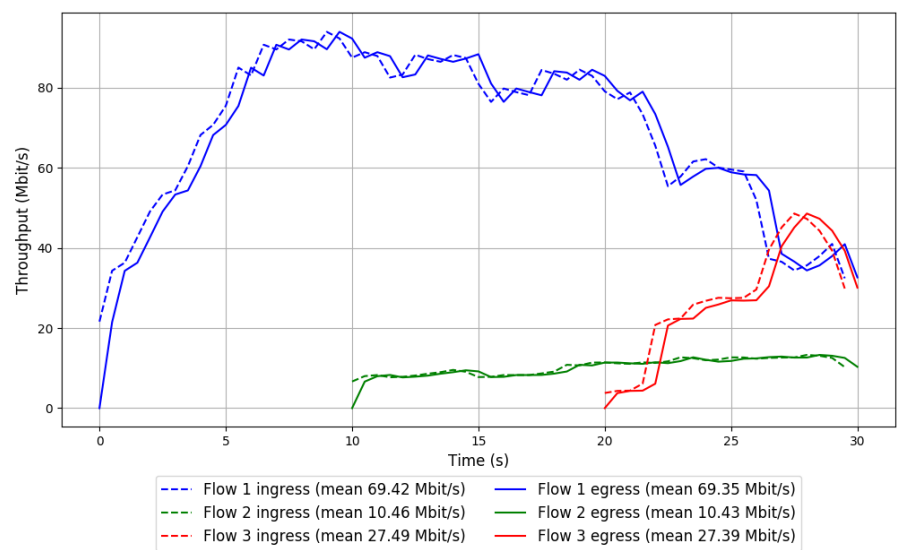
-- Flow 3:

Average throughput: 27.39 Mbit/s

95th percentile per-packet one-way delay: 33.141 ms

Loss rate: 0.34%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-11-30 08:46:29

End at: 2018-11-30 08:46:59

Local clock offset: -5.551 ms

Remote clock offset: 0.765 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.17 Mbit/s

95th percentile per-packet one-way delay: 5.141 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 72.95 Mbit/s

95th percentile per-packet one-way delay: 4.813 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.04 Mbit/s

95th percentile per-packet one-way delay: 5.087 ms

Loss rate: 0.00%

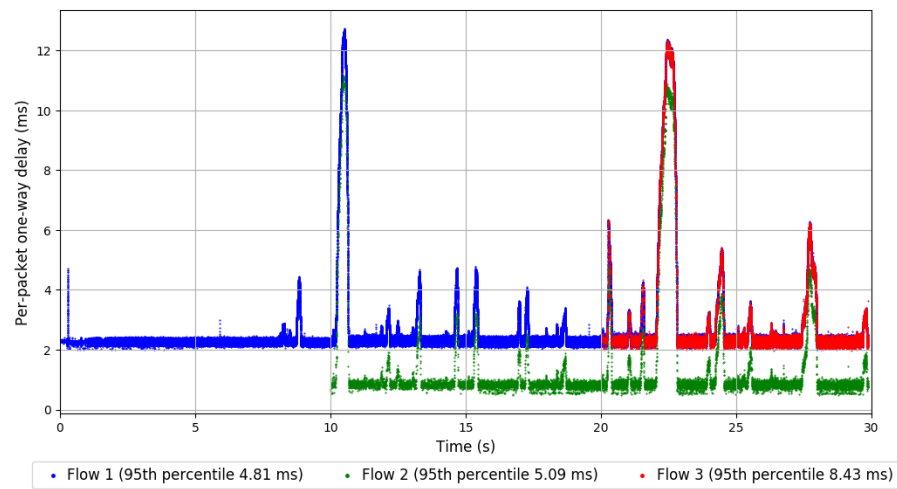
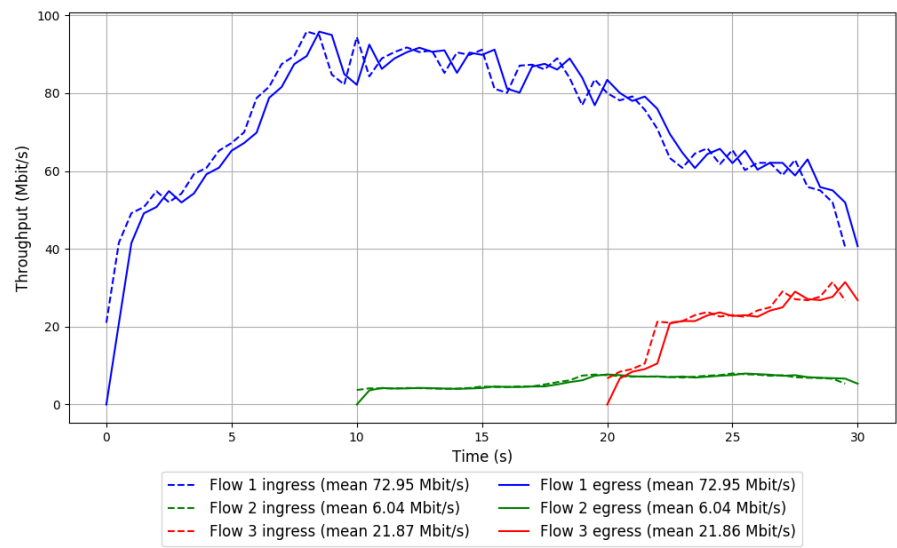
-- Flow 3:

Average throughput: 21.86 Mbit/s

95th percentile per-packet one-way delay: 8.425 ms

Loss rate: 0.00%

Run 5: Report of PCC-Allegro — Data Link

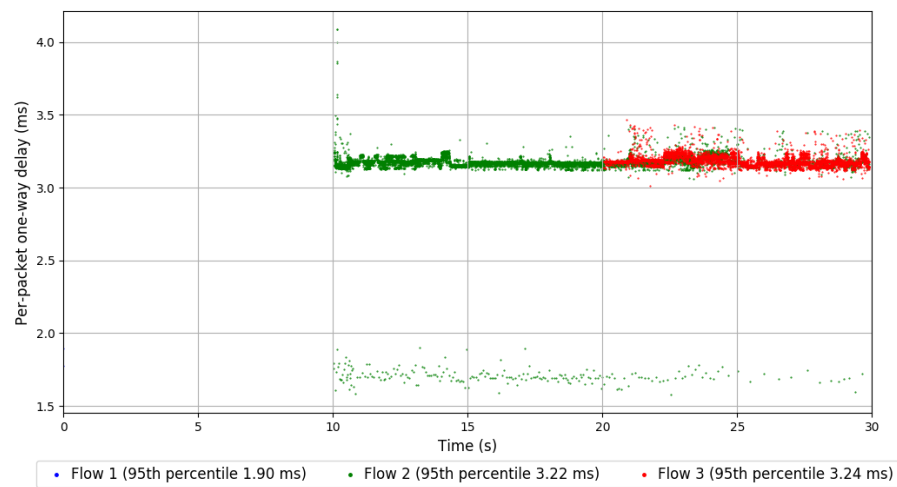
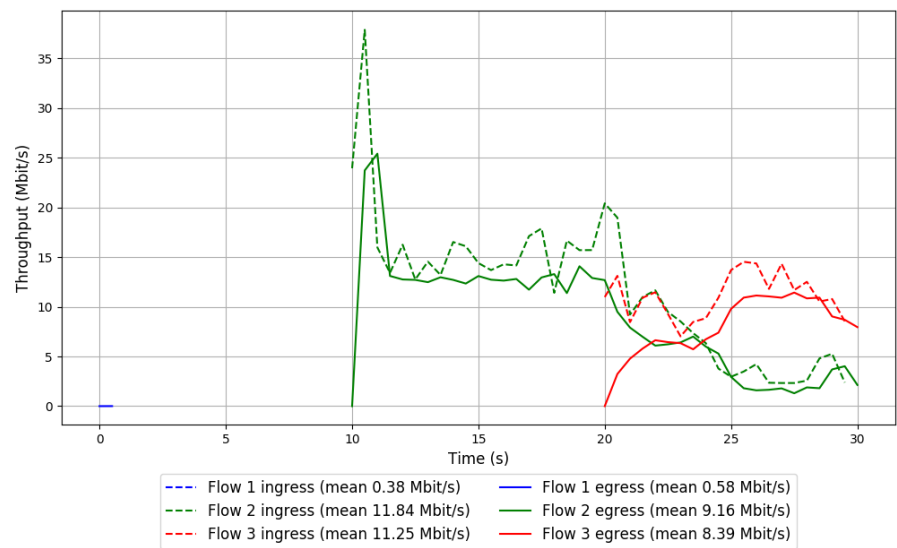


```
Run 1: Statistics of PCC-Expr

Start at: 2018-11-30 07:21:06
End at: 2018-11-30 07:21:36
Local clock offset: -7.235 ms
Remote clock offset: -0.235 ms

# Below is generated by plot.py at 2018-11-30 09:10:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.86 Mbit/s
95th percentile per-packet one-way delay: 3.230 ms
Loss rate: 23.52%
-- Flow 1:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 1.896 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 9.16 Mbit/s
95th percentile per-packet one-way delay: 3.219 ms
Loss rate: 22.62%
-- Flow 3:
Average throughput: 8.39 Mbit/s
95th percentile per-packet one-way delay: 3.238 ms
Loss rate: 25.42%
```

Run 1: Report of PCC-Expr — Data Link

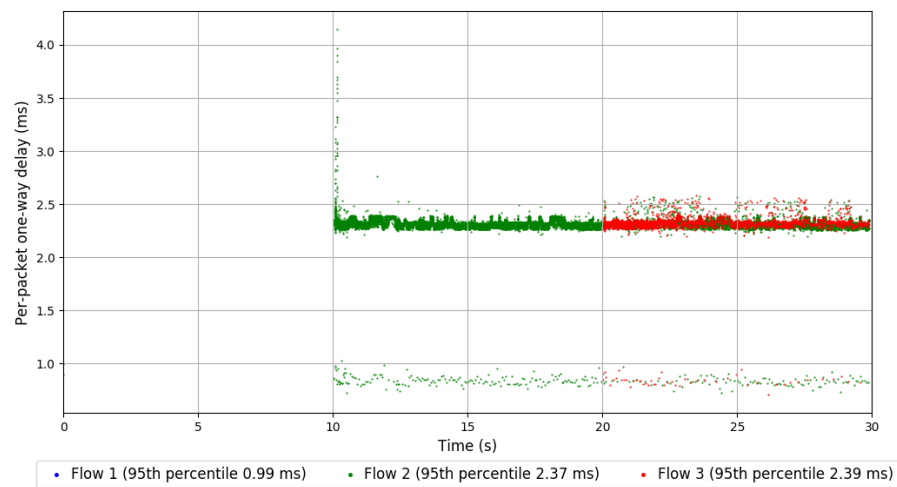
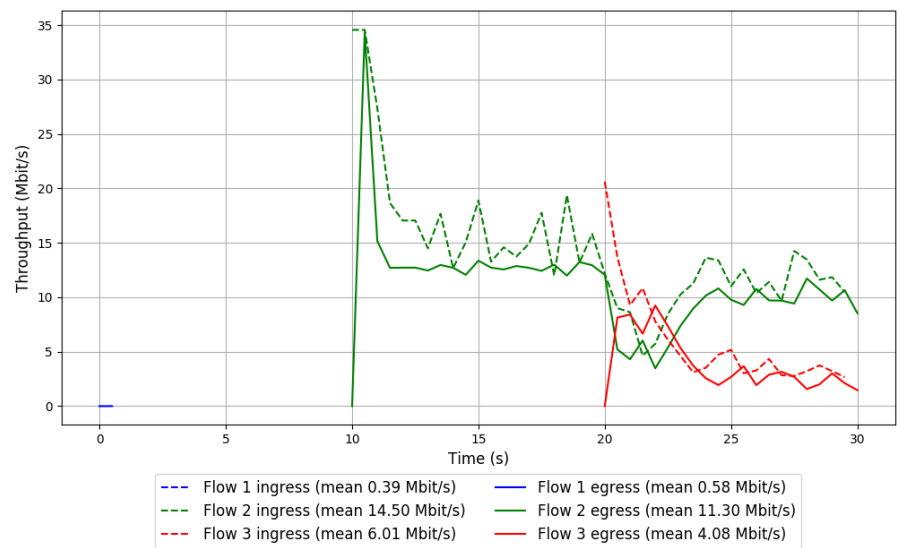


Run 2: Statistics of PCC-Expr

Start at: 2018-11-30 07:42:43
End at: 2018-11-30 07:43:13
Local clock offset: -7.071 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2018-11-30 09:10:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.86 Mbit/s
95th percentile per-packet one-way delay: 2.375 ms
Loss rate: 23.76%
-- Flow 1:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 0.992 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 11.30 Mbit/s
95th percentile per-packet one-way delay: 2.374 ms
Loss rate: 22.06%
-- Flow 3:
Average throughput: 4.08 Mbit/s
95th percentile per-packet one-way delay: 2.394 ms
Loss rate: 32.05%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-11-30 08:04:21

End at: 2018-11-30 08:04:51

Local clock offset: -6.706 ms

Remote clock offset: 0.377 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.39 Mbit/s

95th percentile per-packet one-way delay: 9.712 ms

Loss rate: 42.15%

-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 3.214 ms

Loss rate: 85.71%

-- Flow 2:

Average throughput: 9.37 Mbit/s

95th percentile per-packet one-way delay: 11.227 ms

Loss rate: 46.73%

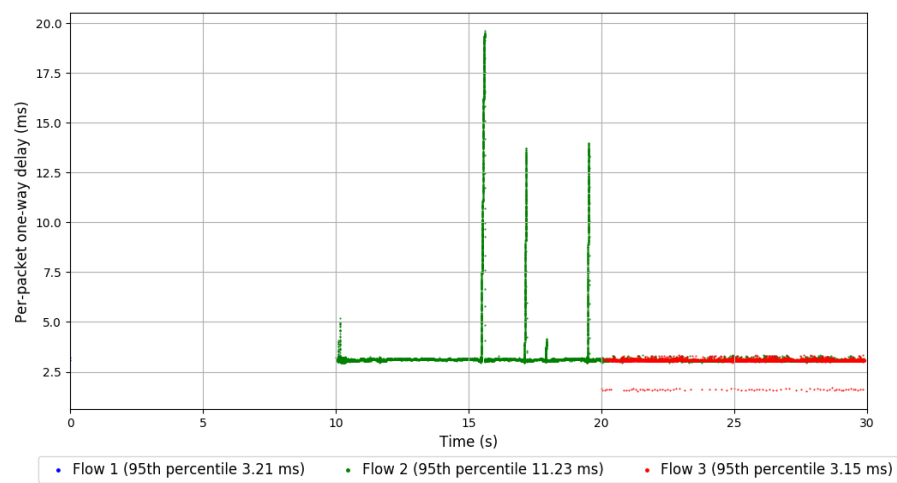
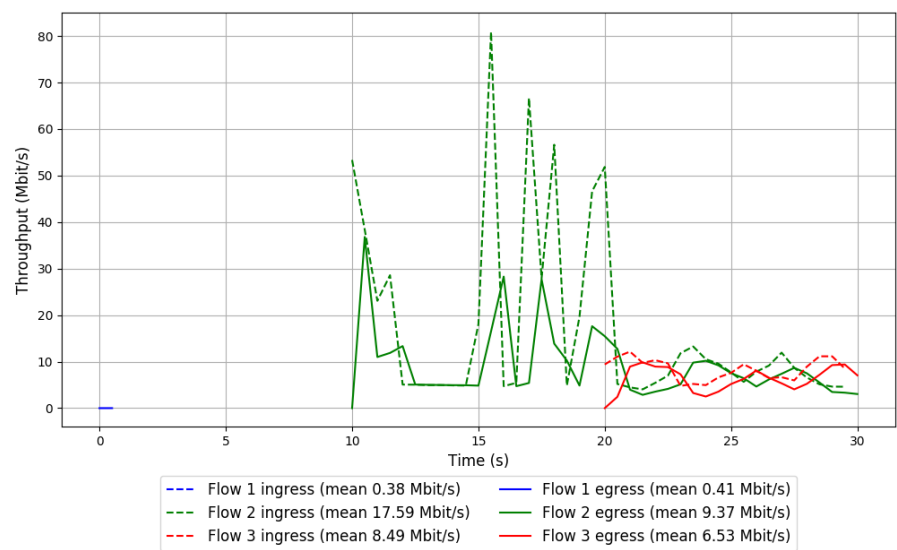
-- Flow 3:

Average throughput: 6.53 Mbit/s

95th percentile per-packet one-way delay: 3.151 ms

Loss rate: 23.01%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-11-30 08:25:58

End at: 2018-11-30 08:26:28

Local clock offset: -5.528 ms

Remote clock offset: 0.749 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.31 Mbit/s

95th percentile per-packet one-way delay: 2.426 ms

Loss rate: 24.77%

-- Flow 1:

Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 1.010 ms

Loss rate: 85.71%

-- Flow 2:

Average throughput: 5.21 Mbit/s

95th percentile per-packet one-way delay: 2.418 ms

Loss rate: 21.21%

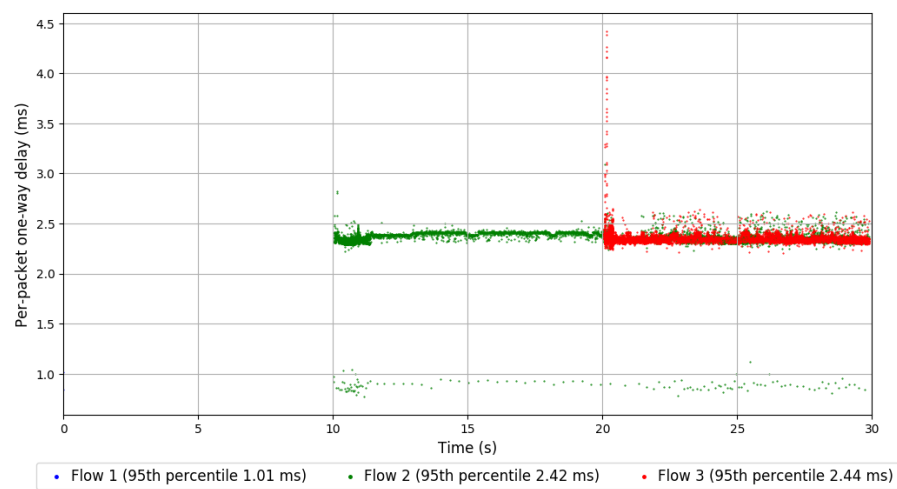
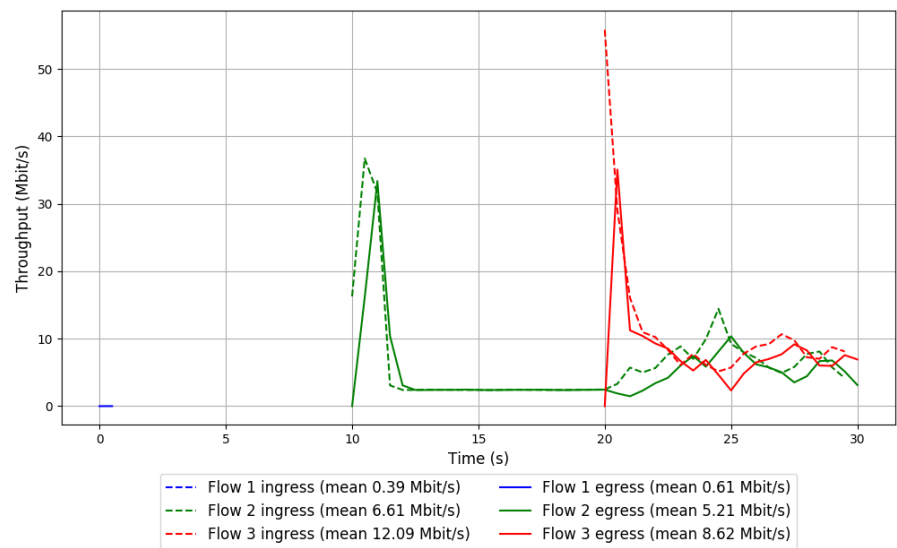
-- Flow 3:

Average throughput: 8.62 Mbit/s

95th percentile per-packet one-way delay: 2.441 ms

Loss rate: 28.68%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-11-30 08:47:37

End at: 2018-11-30 08:48:07

Local clock offset: -5.681 ms

Remote clock offset: 0.744 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.86 Mbit/s

95th percentile per-packet one-way delay: 2.291 ms

Loss rate: 35.45%

-- Flow 1:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 0.886 ms

Loss rate: 85.71%

-- Flow 2:

Average throughput: 10.41 Mbit/s

95th percentile per-packet one-way delay: 2.334 ms

Loss rate: 38.73%

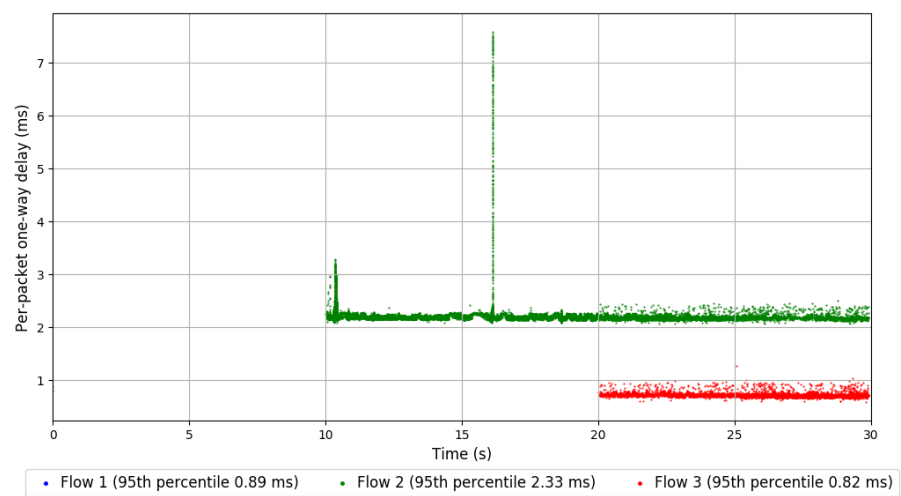
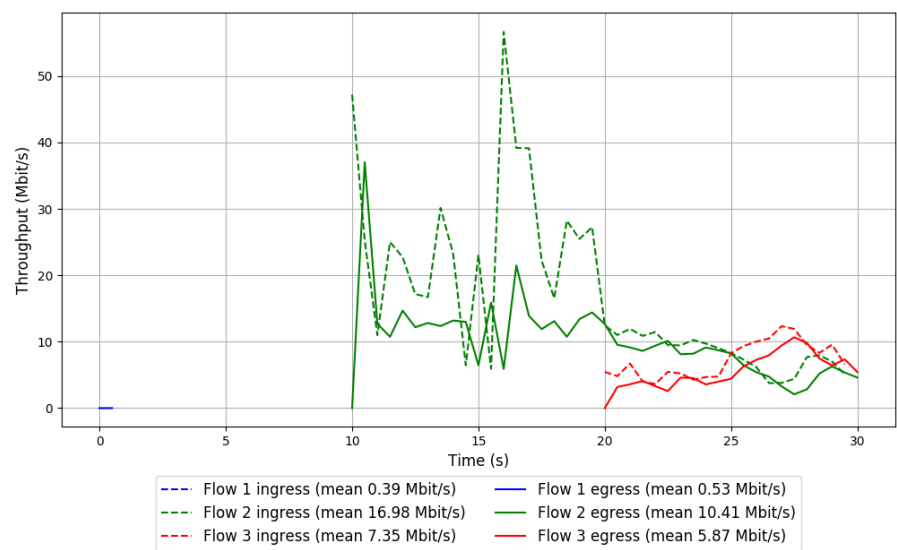
-- Flow 3:

Average throughput: 5.87 Mbit/s

95th percentile per-packet one-way delay: 0.818 ms

Loss rate: 20.22%

Run 5: Report of PCC-Expr — Data Link

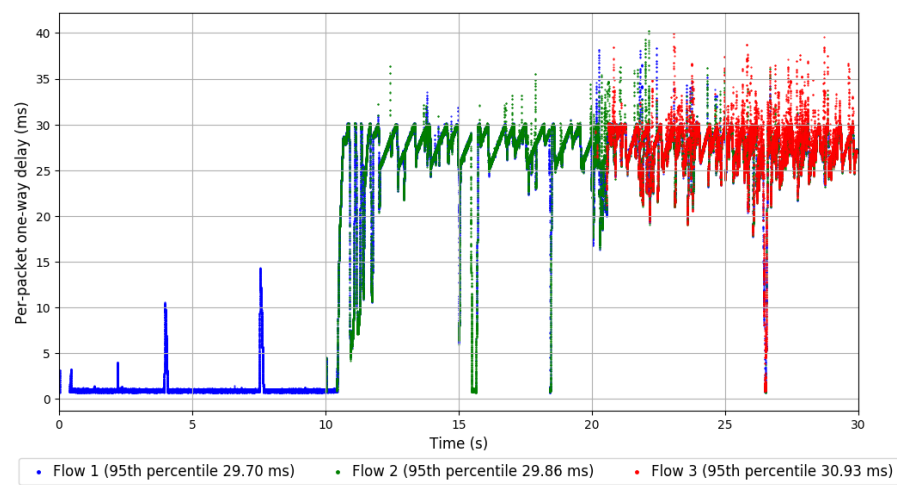
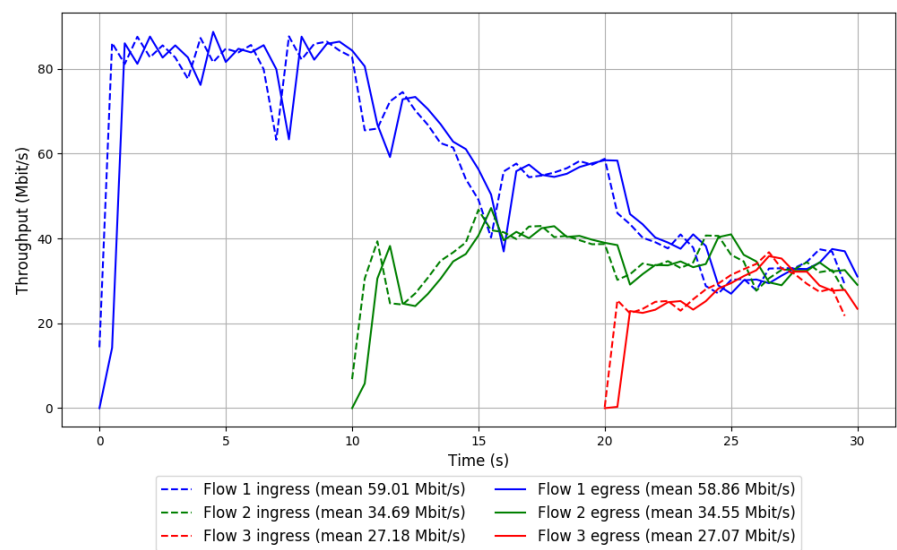


Run 1: Statistics of QUIC Cubic

Start at: 2018-11-30 07:30:13
End at: 2018-11-30 07:30:43
Local clock offset: -6.814 ms
Remote clock offset: -0.275 ms

Below is generated by plot.py at 2018-11-30 09:11:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.75 Mbit/s
95th percentile per-packet one-way delay: 29.793 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 58.86 Mbit/s
95th percentile per-packet one-way delay: 29.696 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 34.55 Mbit/s
95th percentile per-packet one-way delay: 29.855 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 27.07 Mbit/s
95th percentile per-packet one-way delay: 30.927 ms
Loss rate: 0.37%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

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

End at: 2018-11-30 07:52:21

Local clock offset: -6.398 ms

Remote clock offset: 0.143 ms

Below is generated by plot.py at 2018-11-30 09:11:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.87 Mbit/s

95th percentile per-packet one-way delay: 29.941 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 56.78 Mbit/s

95th percentile per-packet one-way delay: 29.672 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 37.35 Mbit/s

95th percentile per-packet one-way delay: 29.844 ms

Loss rate: 0.16%

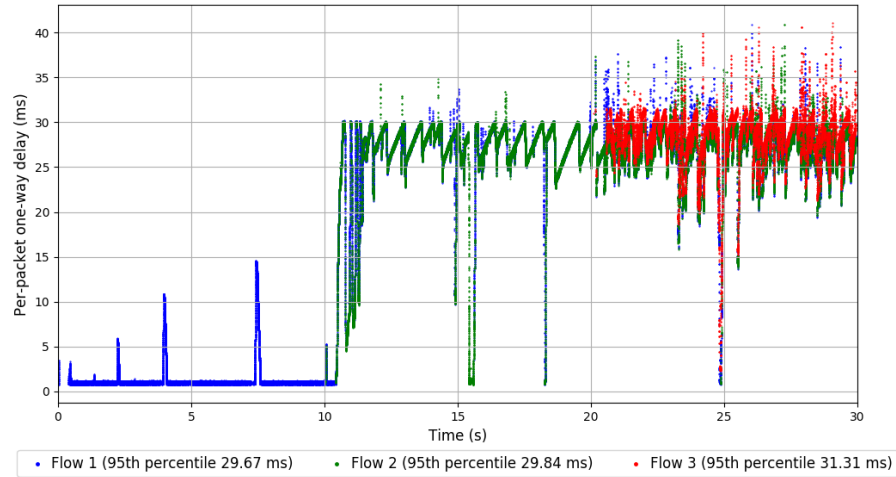
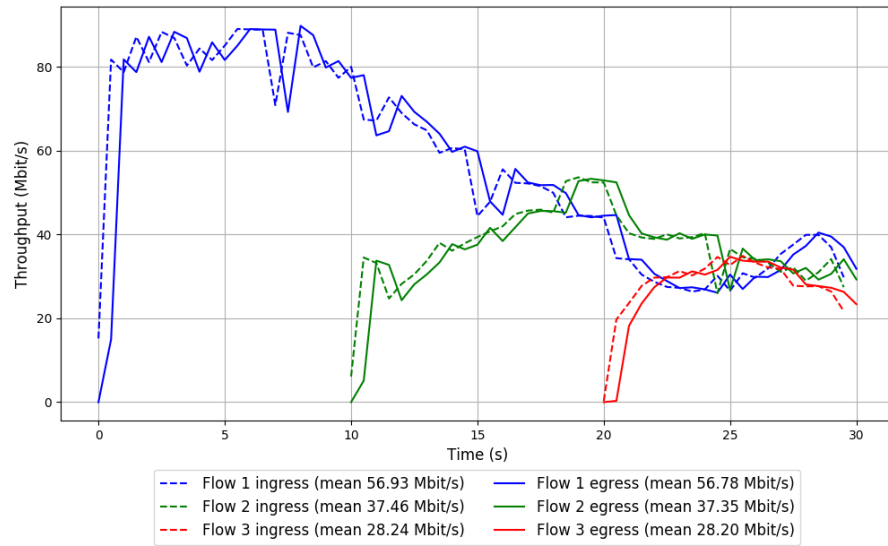
-- Flow 3:

Average throughput: 28.20 Mbit/s

95th percentile per-packet one-way delay: 31.306 ms

Loss rate: 0.15%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-11-30 08:13:28

End at: 2018-11-30 08:13:58

Local clock offset: -5.798 ms

Remote clock offset: 0.506 ms

Below is generated by plot.py at 2018-11-30 09:11:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.23 Mbit/s

95th percentile per-packet one-way delay: 30.587 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 57.77 Mbit/s

95th percentile per-packet one-way delay: 29.538 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 36.92 Mbit/s

95th percentile per-packet one-way delay: 31.102 ms

Loss rate: 0.16%

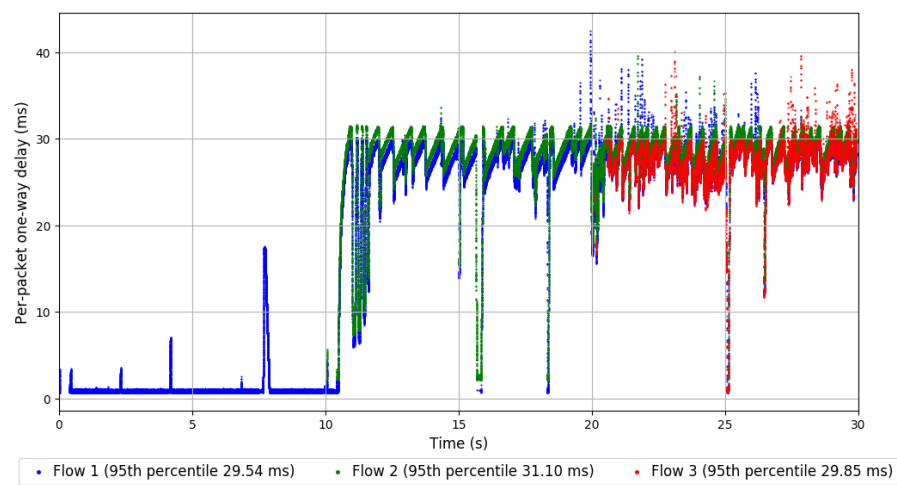
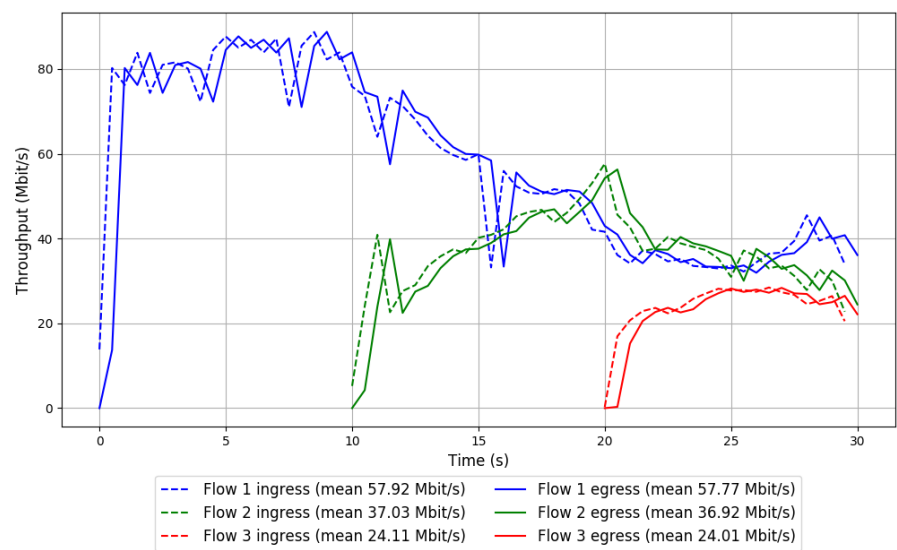
-- Flow 3:

Average throughput: 24.01 Mbit/s

95th percentile per-packet one-way delay: 29.847 ms

Loss rate: 0.31%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-11-30 08:35:06

End at: 2018-11-30 08:35:36

Local clock offset: -5.357 ms

Remote clock offset: 0.772 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.81 Mbit/s

95th percentile per-packet one-way delay: 31.197 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 59.95 Mbit/s

95th percentile per-packet one-way delay: 31.122 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 31.24 Mbit/s

95th percentile per-packet one-way delay: 31.269 ms

Loss rate: 0.19%

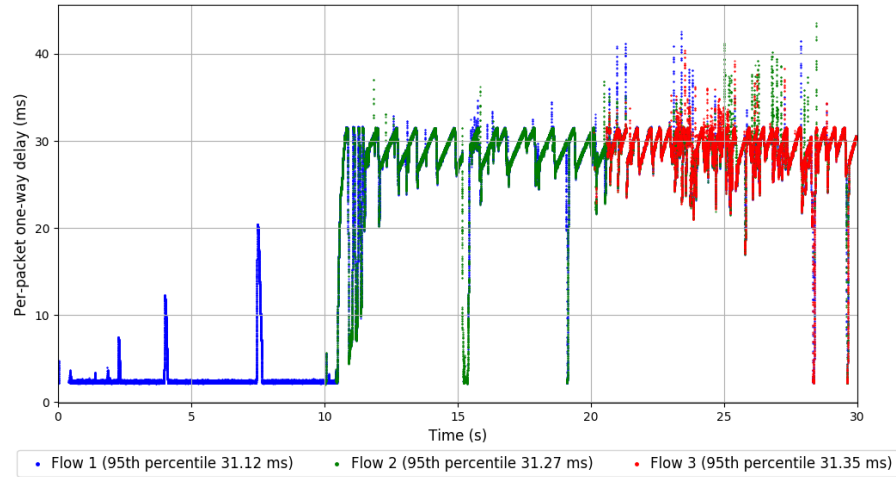
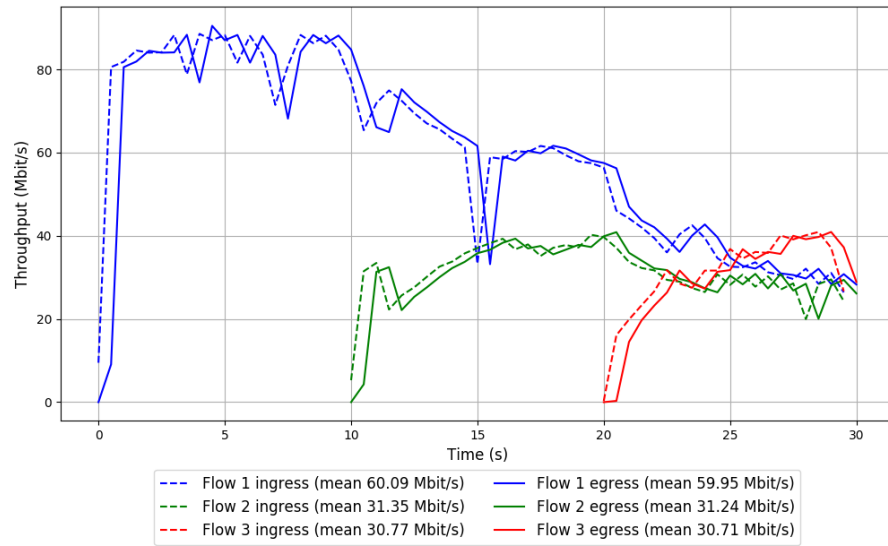
-- Flow 3:

Average throughput: 30.71 Mbit/s

95th percentile per-packet one-way delay: 31.348 ms

Loss rate: 0.18%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-11-30 08:56:44

End at: 2018-11-30 08:57:14

Local clock offset: -7.228 ms

Remote clock offset: 0.805 ms

Below is generated by plot.py at 2018-11-30 09:11:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.32 Mbit/s

95th percentile per-packet one-way delay: 31.937 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 58.02 Mbit/s

95th percentile per-packet one-way delay: 31.896 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 35.15 Mbit/s

95th percentile per-packet one-way delay: 31.998 ms

Loss rate: 0.15%

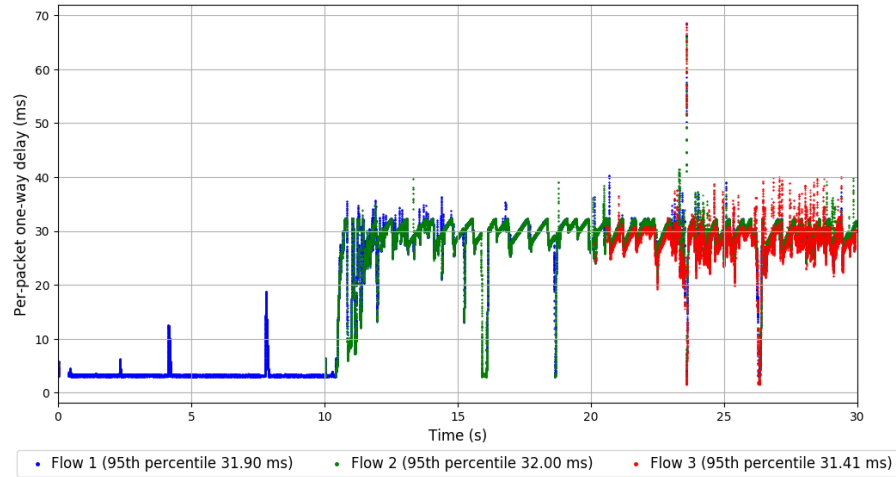
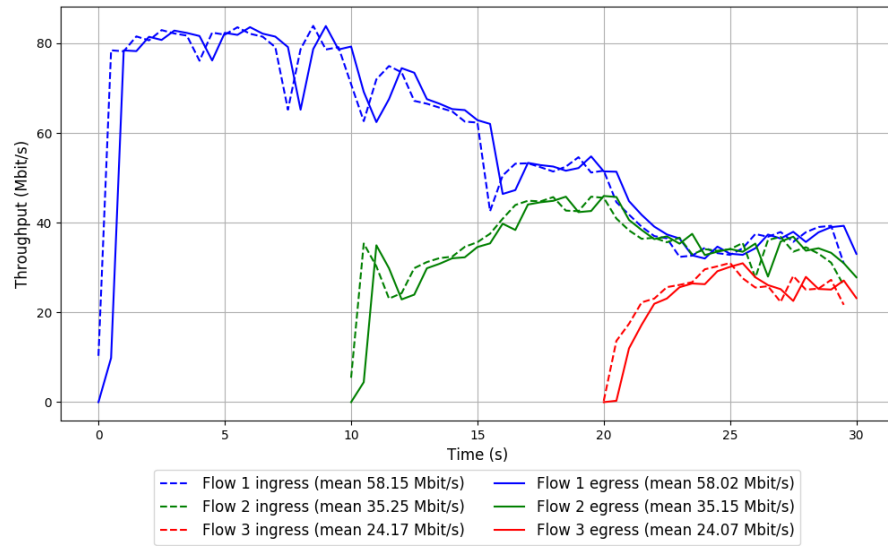
-- Flow 3:

Average throughput: 24.07 Mbit/s

95th percentile per-packet one-way delay: 31.412 ms

Loss rate: 0.32%

Run 5: Report of QUIC Cubic — Data Link

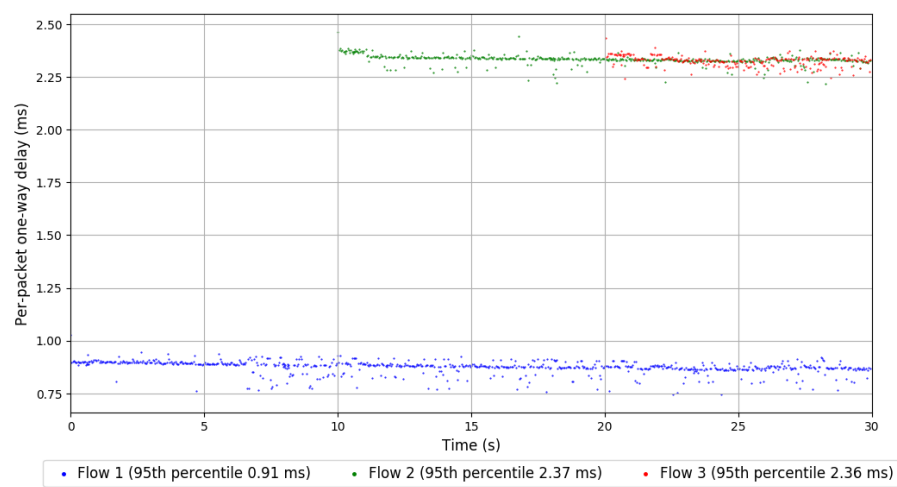
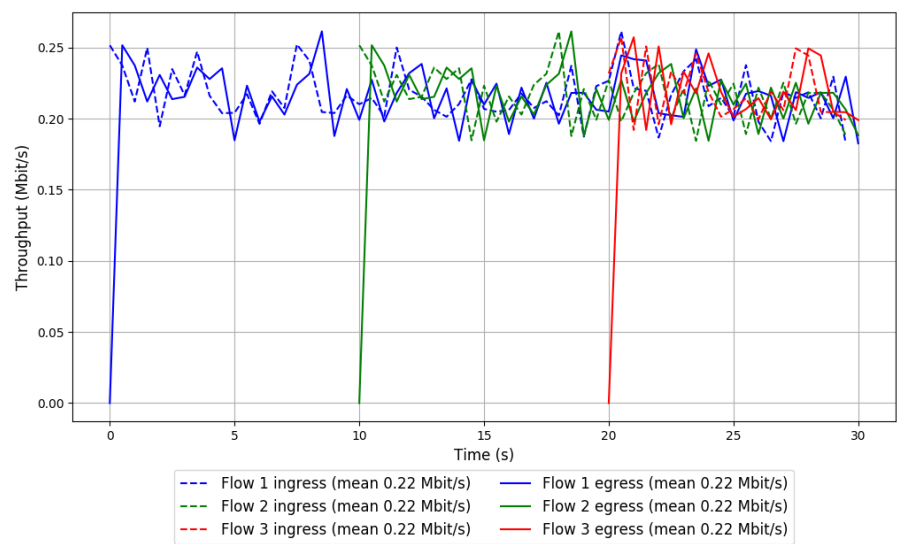


Run 1: Statistics of SReAM

Start at: 2018-11-30 07:16:34
End at: 2018-11-30 07:17:04
Local clock offset: -6.02 ms
Remote clock offset: -0.236 ms

Below is generated by plot.py at 2018-11-30 09:11:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 2.357 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.912 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.369 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.359 ms
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

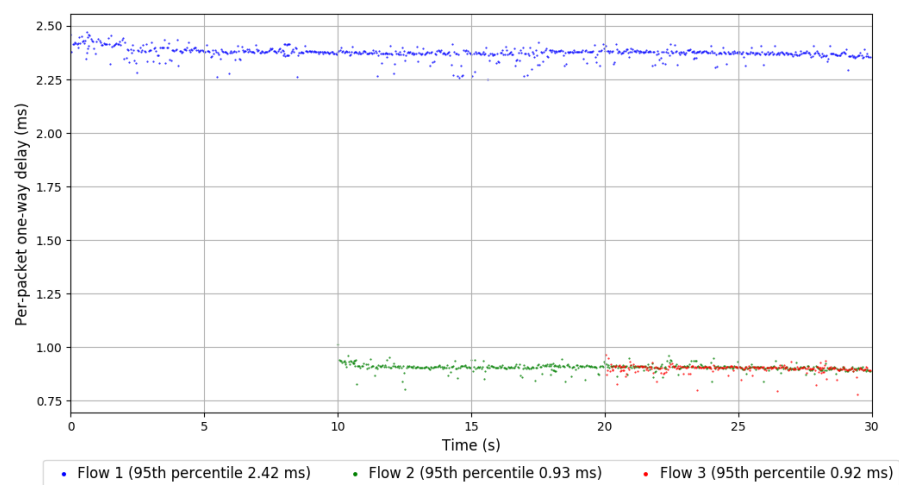
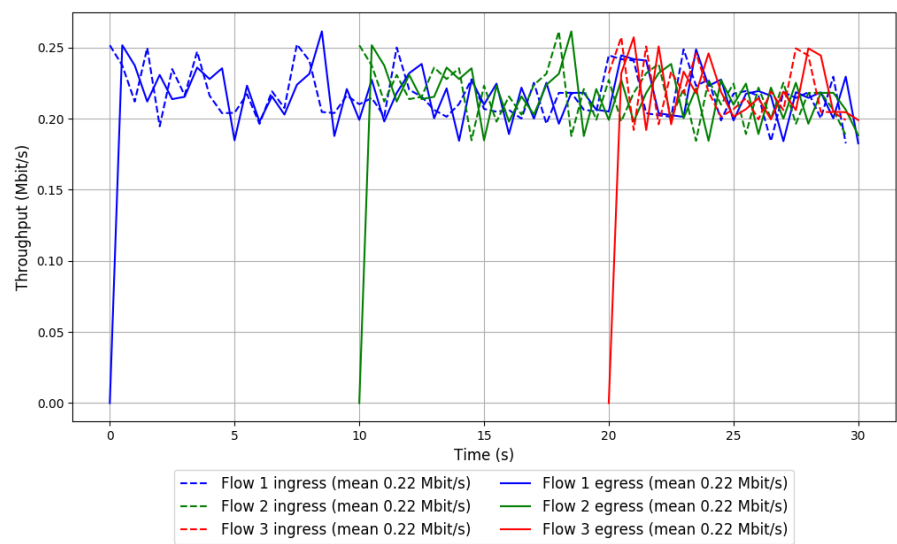


Run 2: Statistics of SReAM

Start at: 2018-11-30 07:38:12
End at: 2018-11-30 07:38:42
Local clock offset: -7.053 ms
Remote clock offset: -0.197 ms

Below is generated by plot.py at 2018-11-30 09:11:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 2.404 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.415 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.934 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.915 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

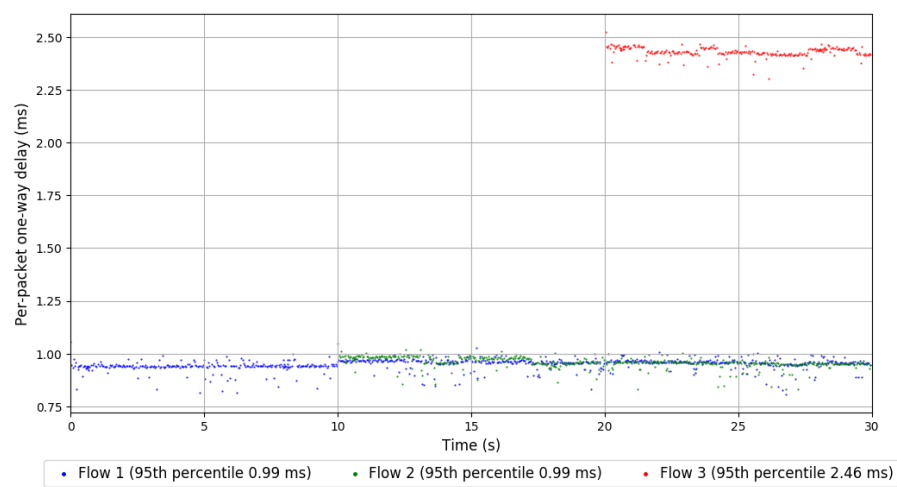
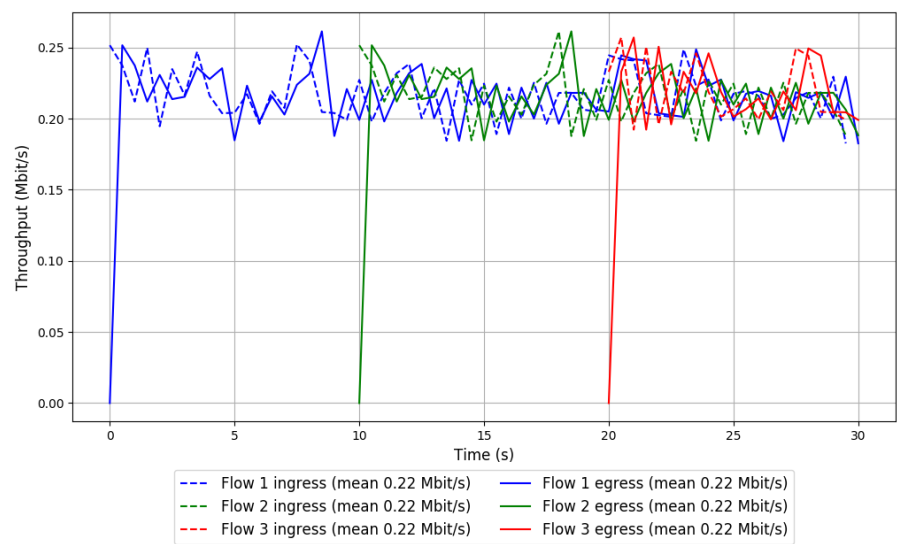


Run 3: Statistics of SReAM

Start at: 2018-11-30 07:59:51
End at: 2018-11-30 08:00:21
Local clock offset: -6.126 ms
Remote clock offset: 0.282 ms

Below is generated by plot.py at 2018-11-30 09:11:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 2.442 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.986 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.989 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.459 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-11-30 08:21:27

End at: 2018-11-30 08:21:57

Local clock offset: -5.595 ms

Remote clock offset: 0.726 ms

Below is generated by plot.py at 2018-11-30 09:11:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 2.443 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.441 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.445 ms

Loss rate: 0.00%

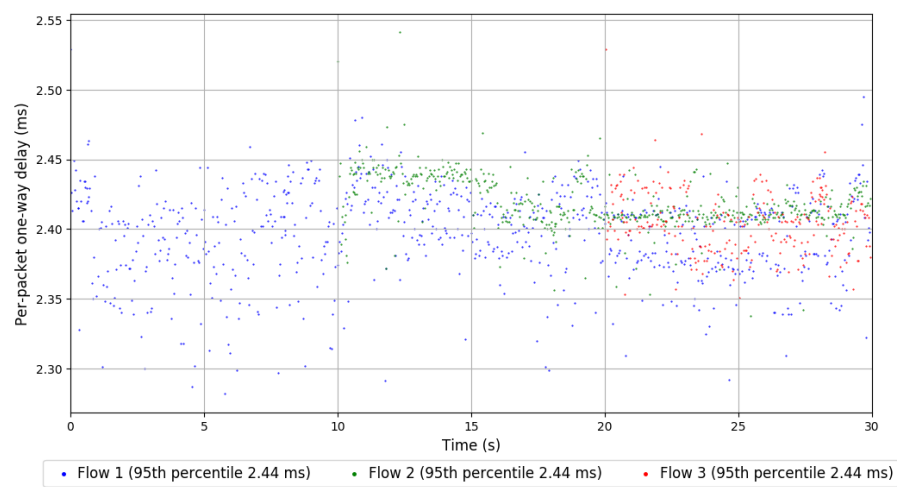
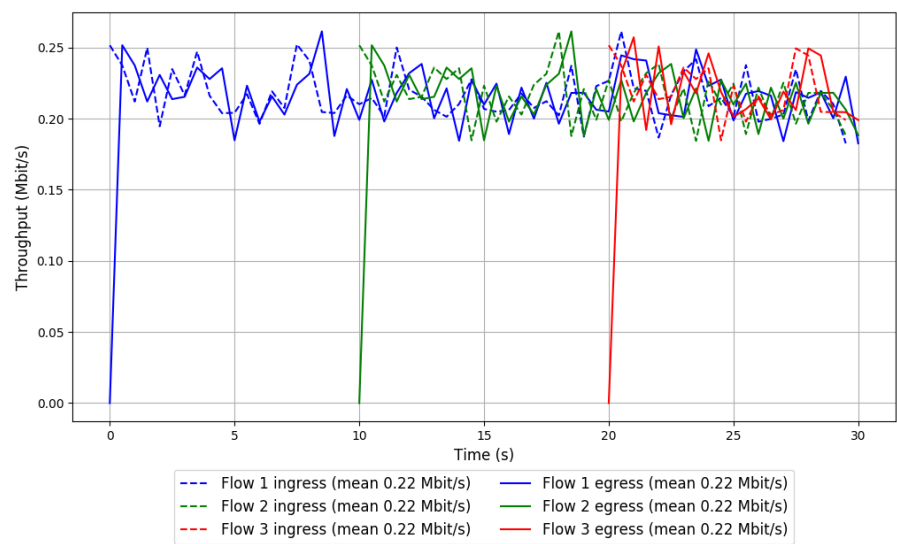
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.435 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-11-30 08:43:05

End at: 2018-11-30 08:43:35

Local clock offset: -6.06 ms

Remote clock offset: 0.847 ms

Below is generated by plot.py at 2018-11-30 09:11:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 3.253 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 3.257 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 3.250 ms

Loss rate: 0.00%

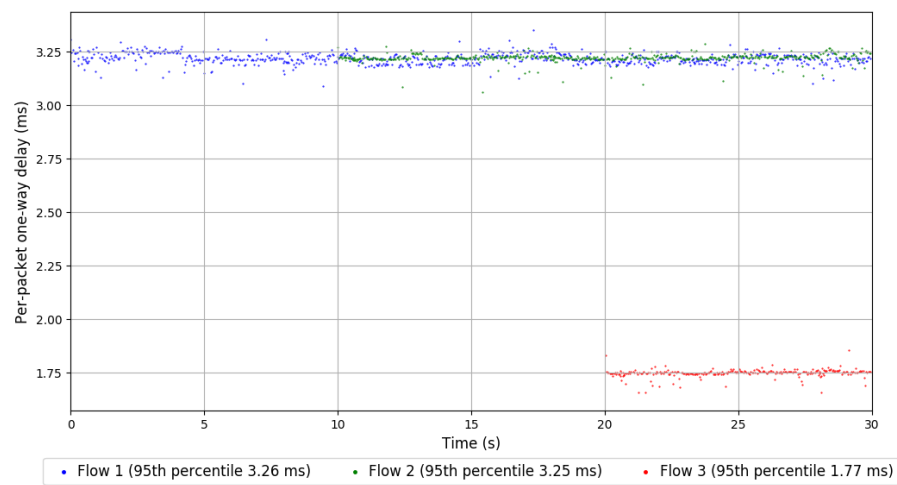
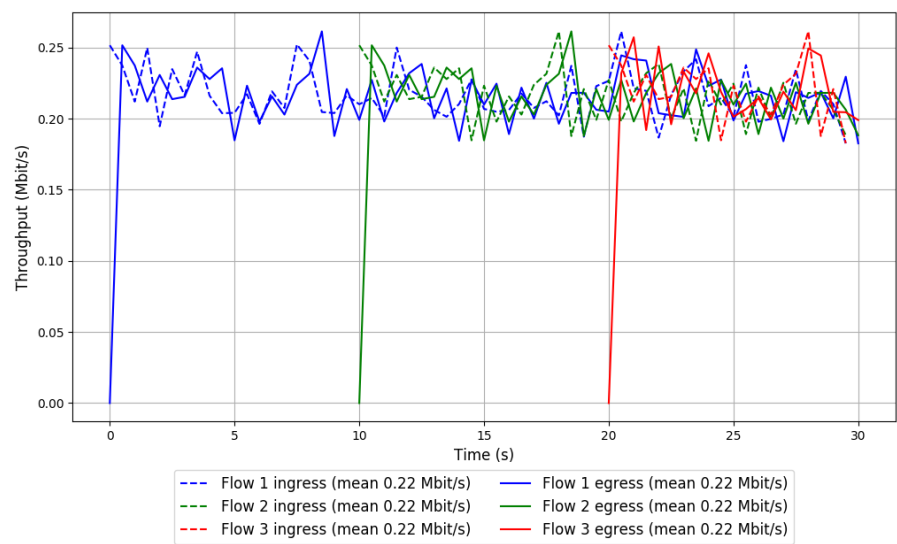
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.767 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

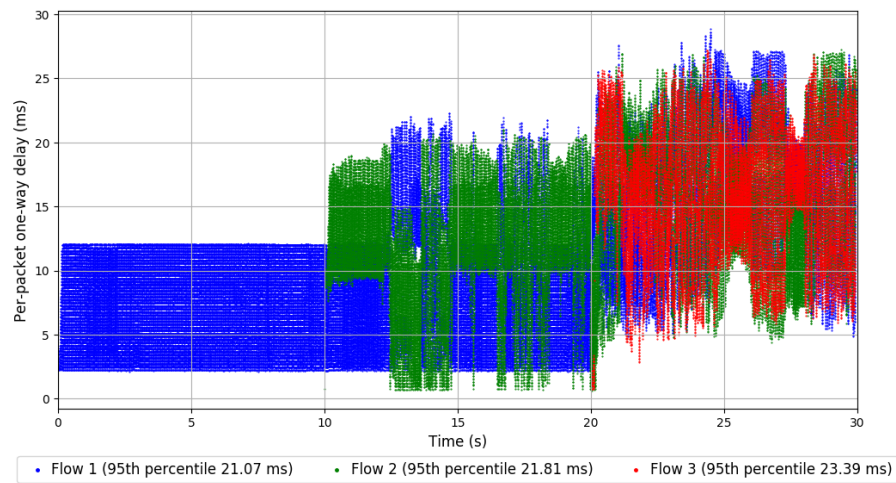
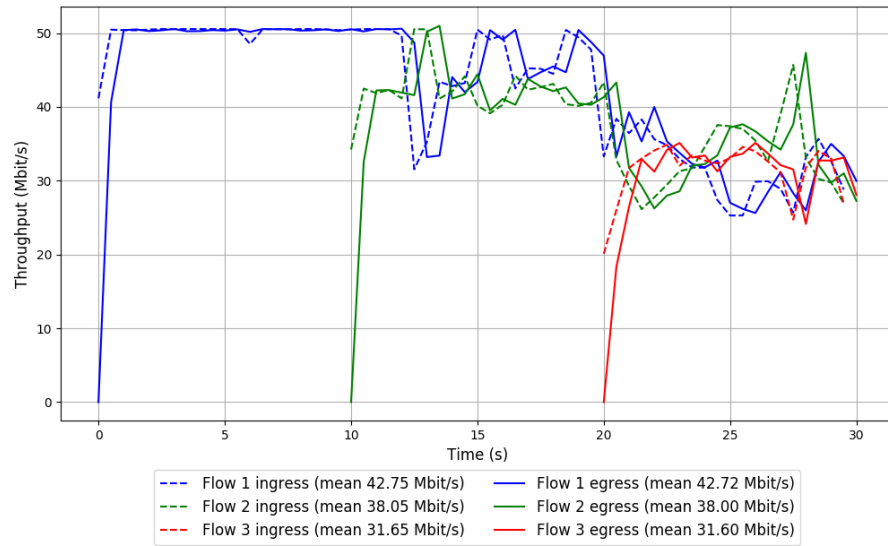


Run 1: Statistics of Sprout

Start at: 2018-11-30 07:15:27
End at: 2018-11-30 07:15:57
Local clock offset: -5.868 ms
Remote clock offset: -0.272 ms

Below is generated by plot.py at 2018-11-30 09:11:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.47 Mbit/s
95th percentile per-packet one-way delay: 21.962 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.72 Mbit/s
95th percentile per-packet one-way delay: 21.071 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.00 Mbit/s
95th percentile per-packet one-way delay: 21.806 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 31.60 Mbit/s
95th percentile per-packet one-way delay: 23.391 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

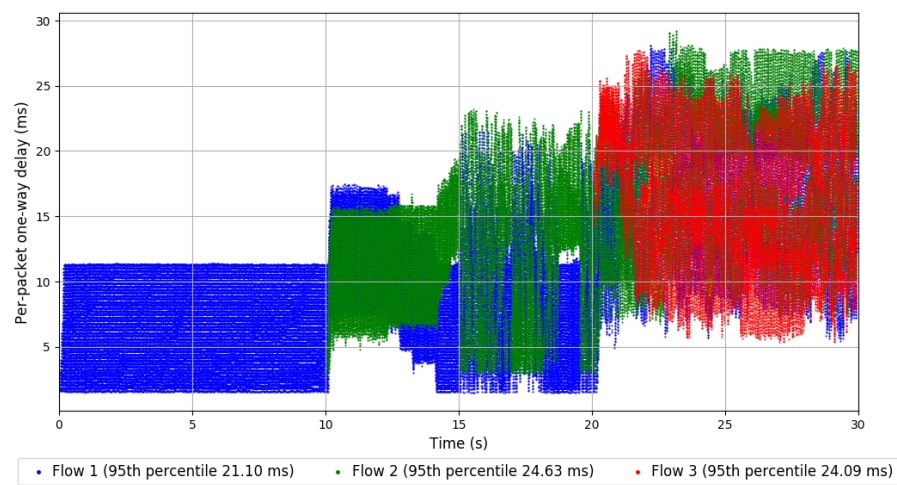
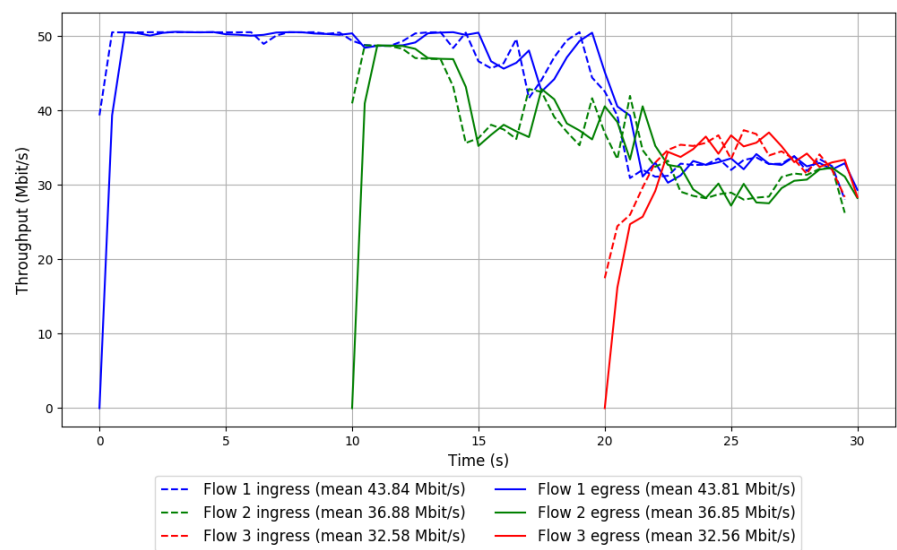


Run 2: Statistics of Sprout

Start at: 2018-11-30 07:37:05
End at: 2018-11-30 07:37:35
Local clock offset: -7.738 ms
Remote clock offset: -0.232 ms

Below is generated by plot.py at 2018-11-30 09:11:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.07 Mbit/s
95th percentile per-packet one-way delay: 23.181 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 43.81 Mbit/s
95th percentile per-packet one-way delay: 21.101 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 36.85 Mbit/s
95th percentile per-packet one-way delay: 24.634 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 32.56 Mbit/s
95th percentile per-packet one-way delay: 24.092 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-11-30 07:58:43

End at: 2018-11-30 07:59:13

Local clock offset: -6.079 ms

Remote clock offset: 0.308 ms

Below is generated by plot.py at 2018-11-30 09:11:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.60 Mbit/s

95th percentile per-packet one-way delay: 22.335 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 42.27 Mbit/s

95th percentile per-packet one-way delay: 20.148 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 38.89 Mbit/s

95th percentile per-packet one-way delay: 22.792 ms

Loss rate: 0.00%

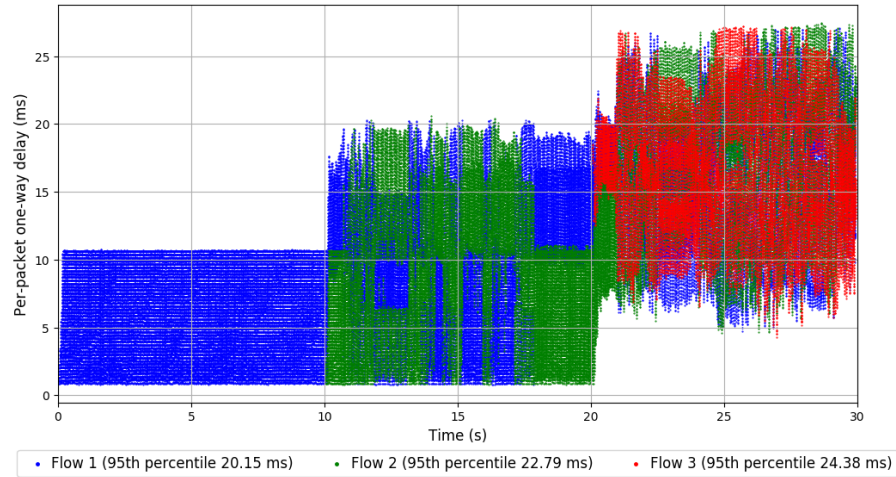
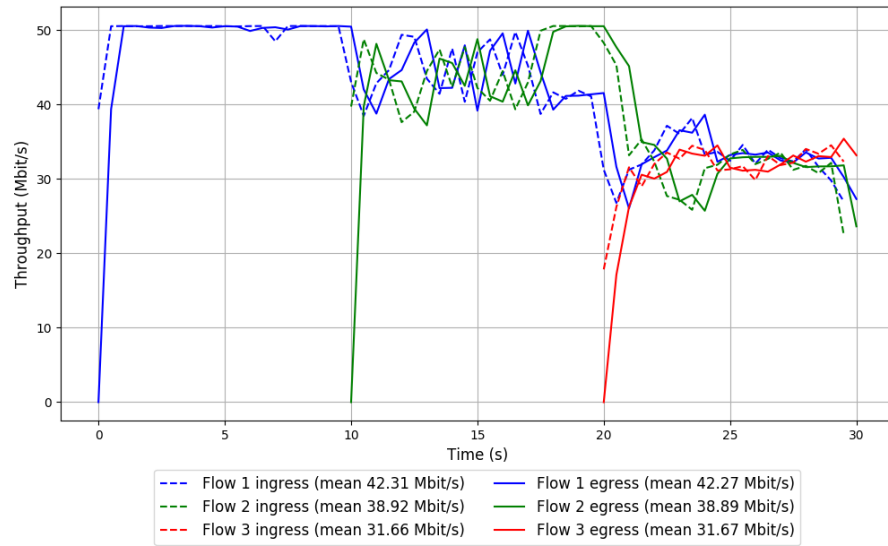
-- Flow 3:

Average throughput: 31.67 Mbit/s

95th percentile per-packet one-way delay: 24.382 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

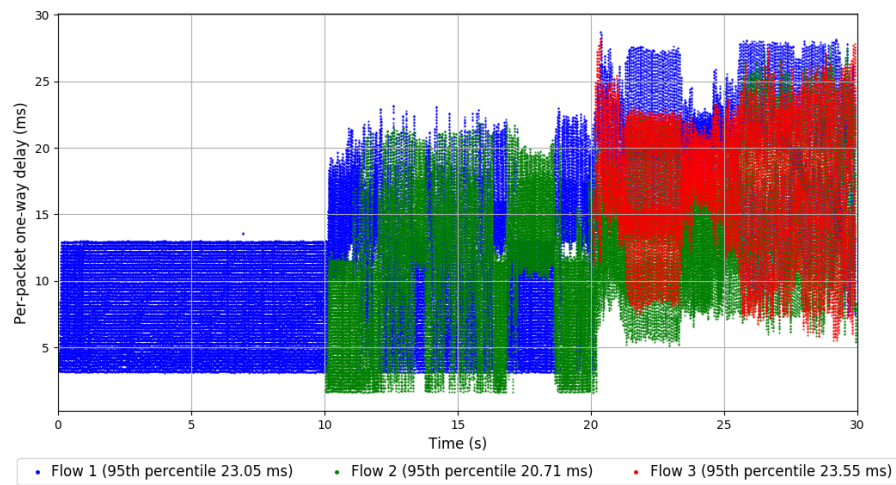
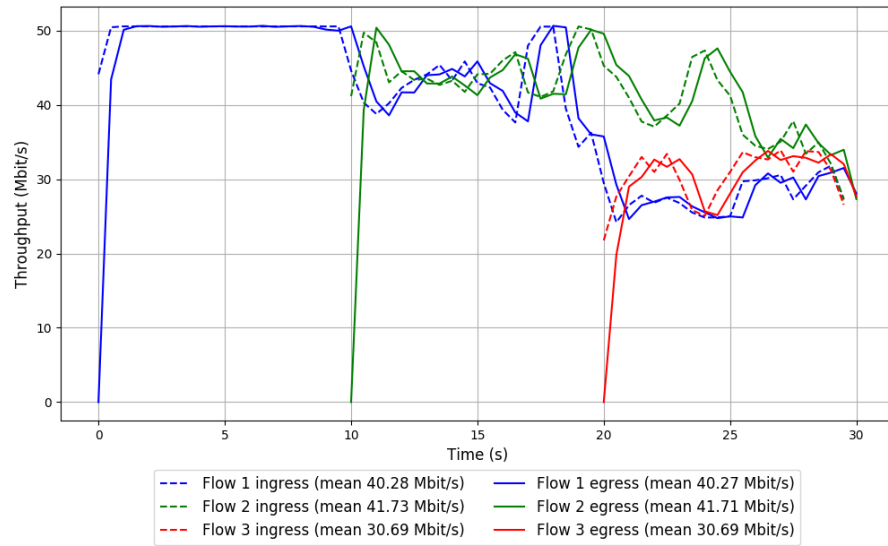


Run 4: Statistics of Sprout

Start at: 2018-11-30 08:20:20
End at: 2018-11-30 08:20:50
Local clock offset: -6.456 ms
Remote clock offset: 0.645 ms

```
# Below is generated by plot.py at 2018-11-30 09:12:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.16 Mbit/s
95th percentile per-packet one-way delay: 22.563 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 40.27 Mbit/s
95th percentile per-packet one-way delay: 23.050 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.71 Mbit/s
95th percentile per-packet one-way delay: 20.707 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.69 Mbit/s
95th percentile per-packet one-way delay: 23.550 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

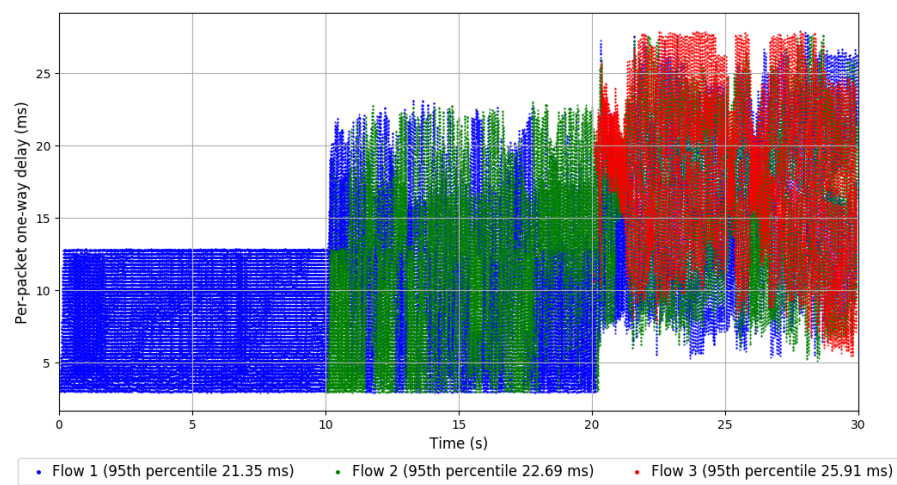
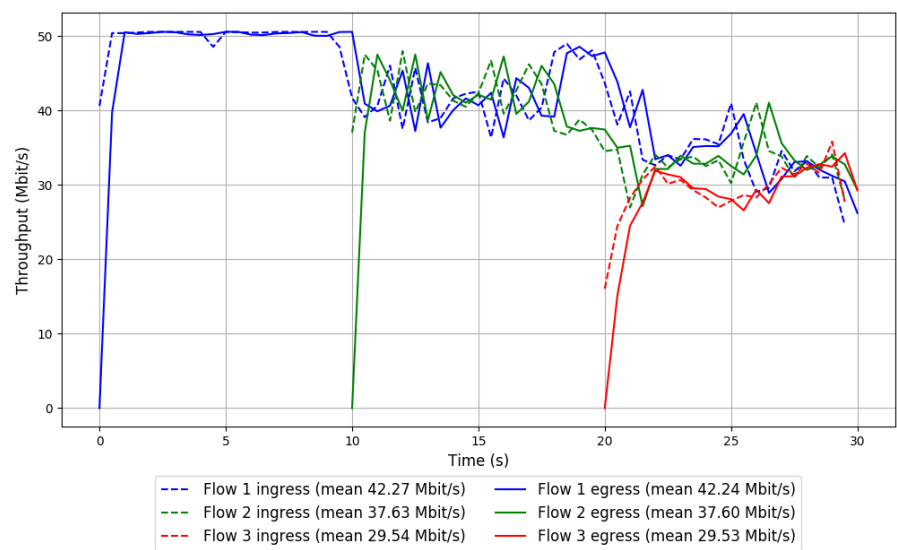


Run 5: Statistics of Sprout

Start at: 2018-11-30 08:41:58
End at: 2018-11-30 08:42:28
Local clock offset: -6.056 ms
Remote clock offset: 0.713 ms

```
# Below is generated by plot.py at 2018-11-30 09:12:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.01 Mbit/s
95th percentile per-packet one-way delay: 23.004 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.24 Mbit/s
95th percentile per-packet one-way delay: 21.348 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.60 Mbit/s
95th percentile per-packet one-way delay: 22.693 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.53 Mbit/s
95th percentile per-packet one-way delay: 25.914 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

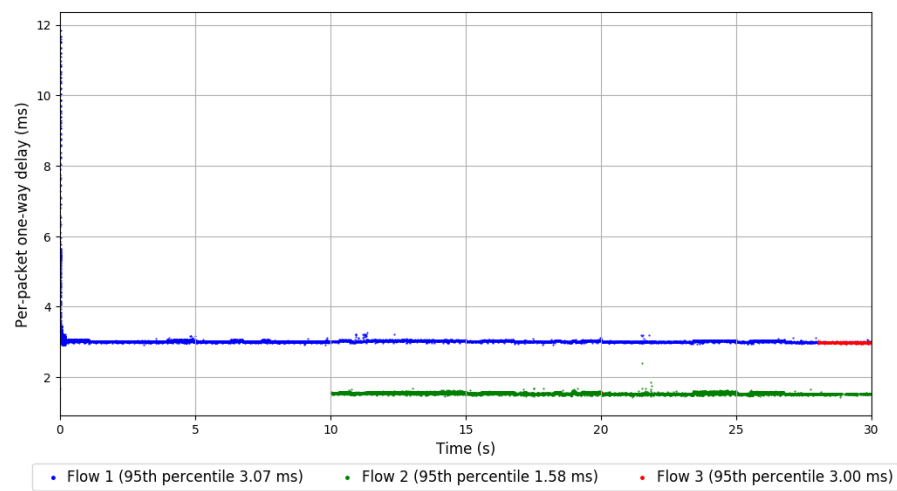
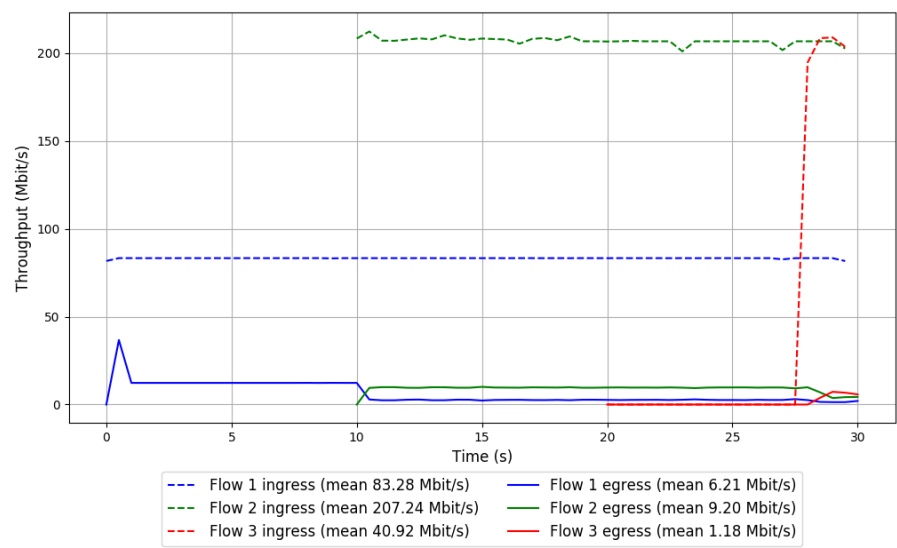


Run 1: Statistics of TaoVA-100x

Start at: 2018-11-30 07:23:18
End at: 2018-11-30 07:23:48
Local clock offset: -7.297 ms
Remote clock offset: -0.346 ms

Below is generated by plot.py at 2018-11-30 09:12:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 3.056 ms
Loss rate: 94.58%
-- Flow 1:
Average throughput: 6.21 Mbit/s
95th percentile per-packet one-way delay: 3.066 ms
Loss rate: 92.55%
-- Flow 2:
Average throughput: 9.20 Mbit/s
95th percentile per-packet one-way delay: 1.585 ms
Loss rate: 95.56%
-- Flow 3:
Average throughput: 1.18 Mbit/s
95th percentile per-packet one-way delay: 2.998 ms
Loss rate: 97.11%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-11-30 07:44:56

End at: 2018-11-30 07:45:26

Local clock offset: -7.838 ms

Remote clock offset: 0.038 ms

Below is generated by plot.py at 2018-11-30 09:12:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 3.284 ms

Loss rate: 94.30%

-- Flow 1:

Average throughput: 6.24 Mbit/s

95th percentile per-packet one-way delay: 3.282 ms

Loss rate: 92.51%

-- Flow 2:

Average throughput: 9.74 Mbit/s

95th percentile per-packet one-way delay: 3.284 ms

Loss rate: 95.37%

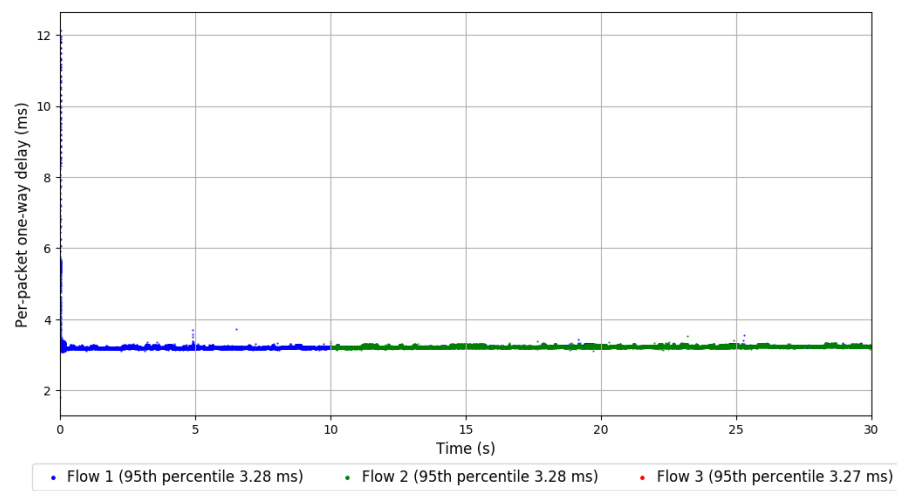
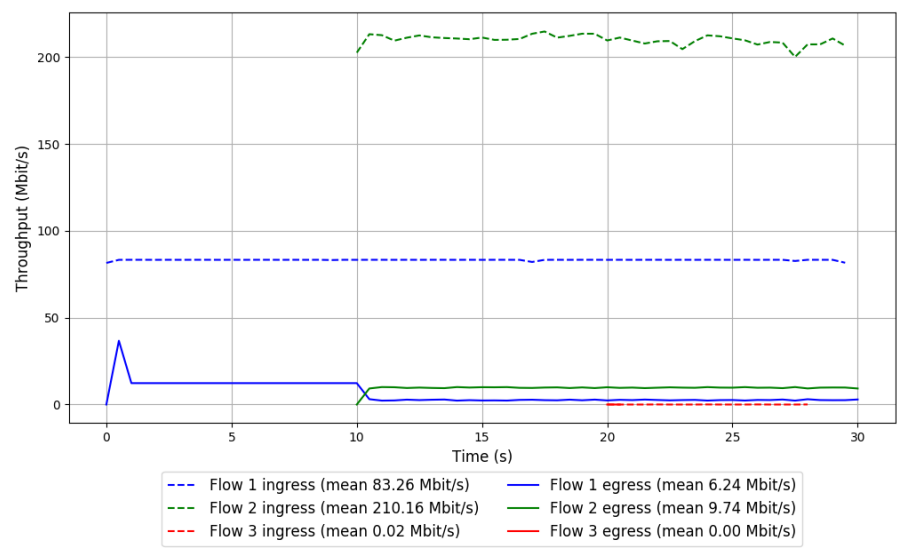
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 3.265 ms

Loss rate: 99.16%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-11-30 08:06:33

End at: 2018-11-30 08:07:04

Local clock offset: -5.974 ms

Remote clock offset: 0.437 ms

Below is generated by plot.py at 2018-11-30 09:12:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.73 Mbit/s

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

Loss rate: 87.86%

-- Flow 1:

Average throughput: 6.69 Mbit/s

95th percentile per-packet one-way delay: 1.004 ms

Loss rate: 84.59%

-- Flow 2:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 2.462 ms

Loss rate: 81.98%

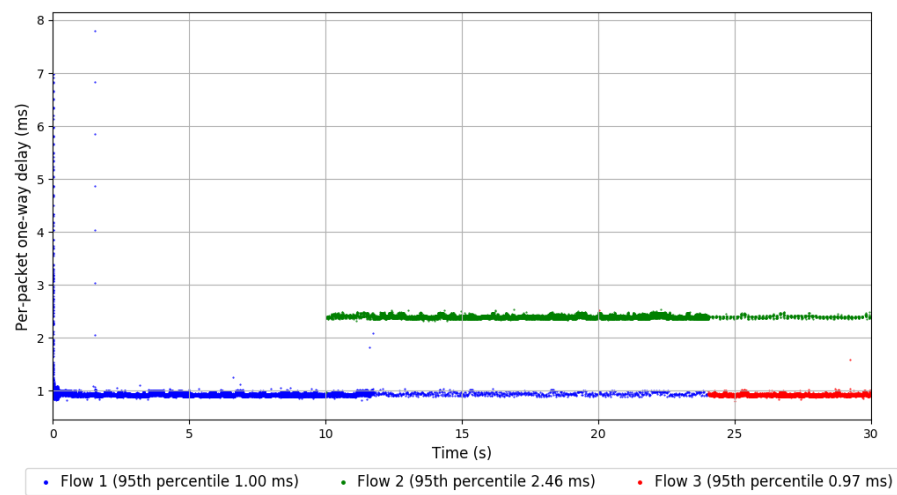
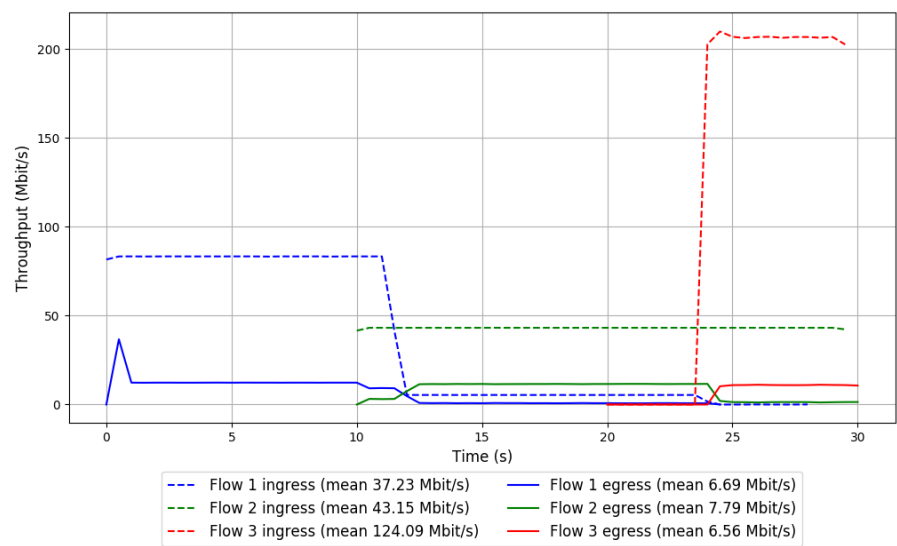
-- Flow 3:

Average throughput: 6.56 Mbit/s

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

Loss rate: 94.71%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-11-30 08:28:10

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

Local clock offset: -6.244 ms

Remote clock offset: 0.81 ms

Below is generated by plot.py at 2018-11-30 09:12:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 3.187 ms

Loss rate: 94.34%

-- Flow 1:

Average throughput: 6.21 Mbit/s

95th percentile per-packet one-way delay: 3.196 ms

Loss rate: 92.54%

-- Flow 2:

Average throughput: 9.79 Mbit/s

95th percentile per-packet one-way delay: 3.179 ms

Loss rate: 95.39%

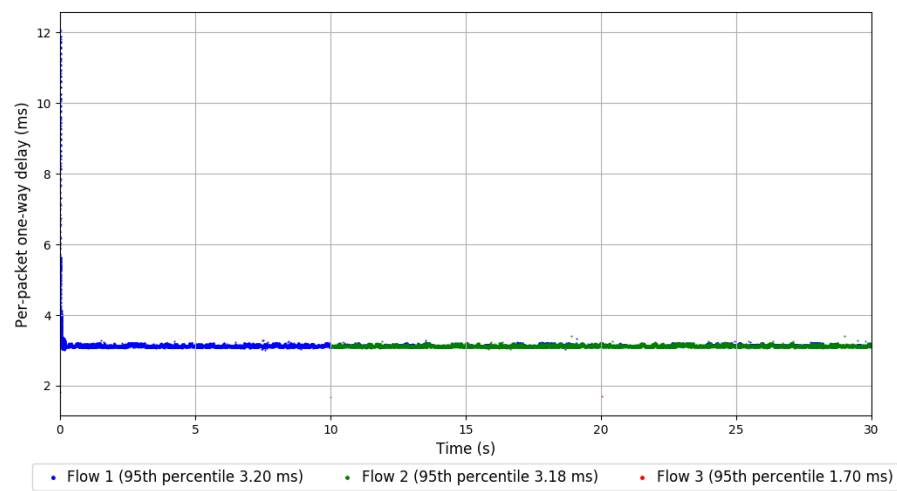
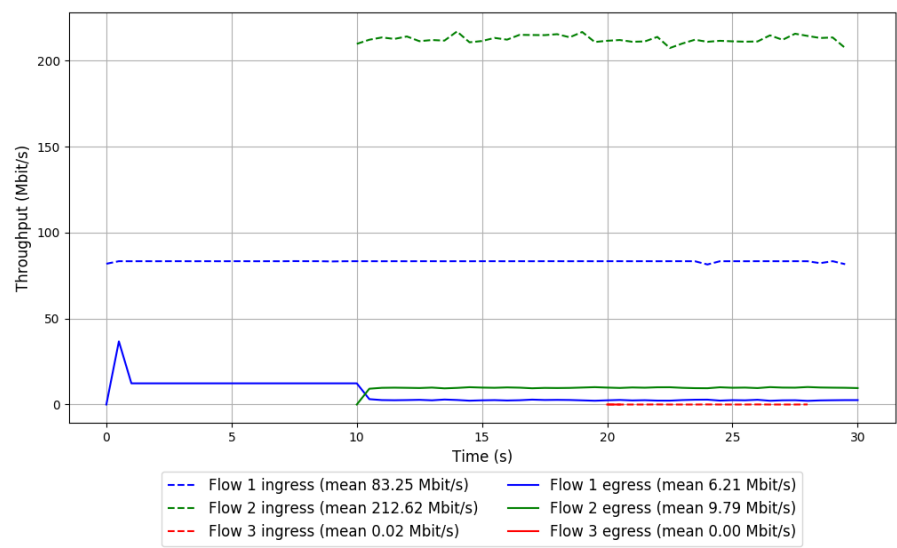
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 1.699 ms

Loss rate: 99.16%

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



Run 5: Statistics of TaoVA-100x

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

End at: 2018-11-30 08:50:19

Local clock offset: -5.958 ms

Remote clock offset: 0.842 ms

Below is generated by plot.py at 2018-11-30 09:12:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 2.402 ms

Loss rate: 89.84%

-- Flow 1:

Average throughput: 5.59 Mbit/s

95th percentile per-packet one-way delay: 2.433 ms

Loss rate: 83.95%

-- Flow 2:

Average throughput: 9.37 Mbit/s

95th percentile per-packet one-way delay: 0.936 ms

Loss rate: 88.74%

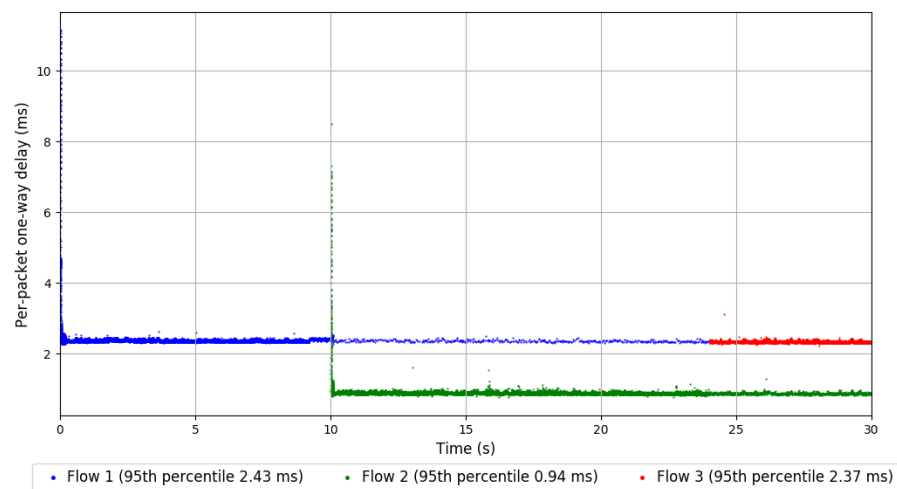
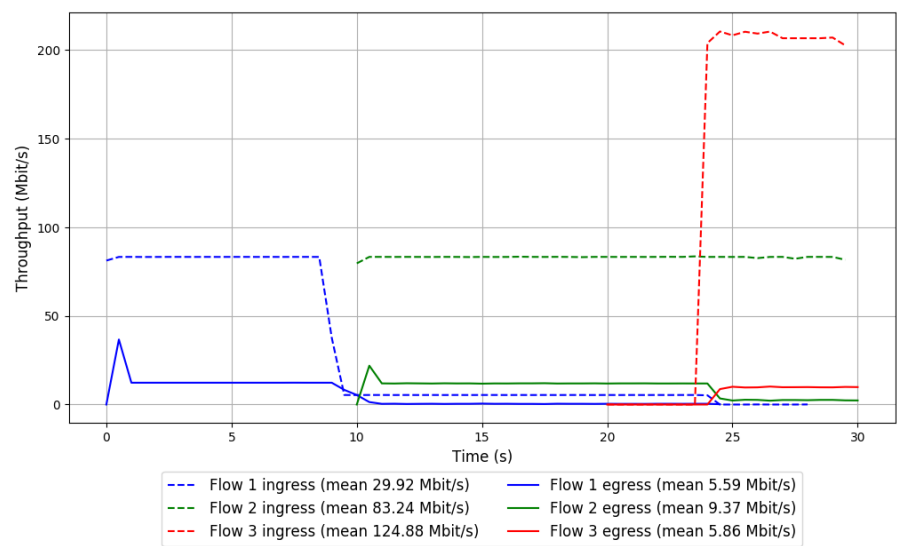
-- Flow 3:

Average throughput: 5.86 Mbit/s

95th percentile per-packet one-way delay: 2.372 ms

Loss rate: 95.31%

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

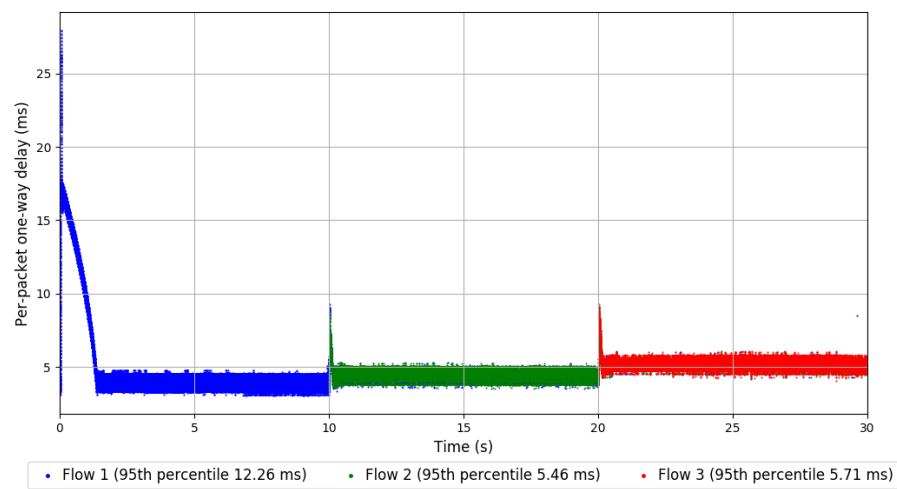
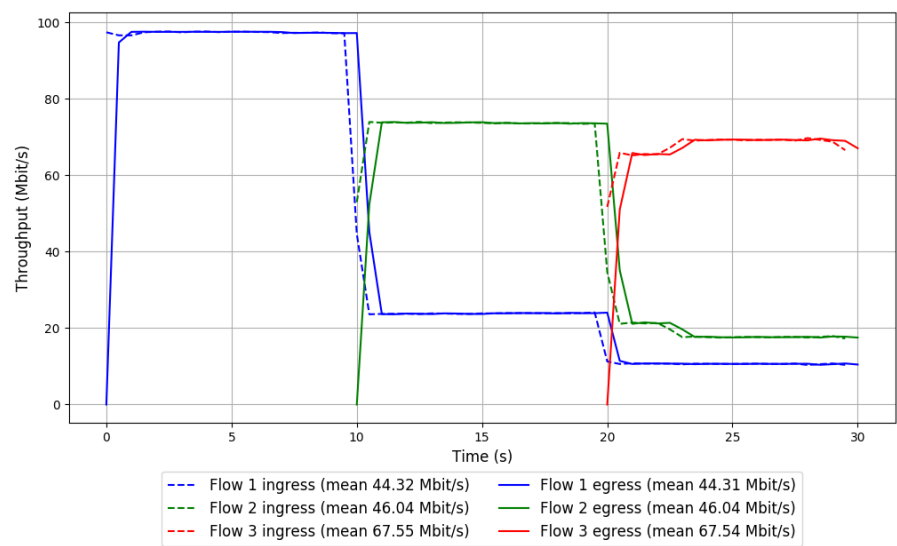


Run 1: Statistics of TCP Vegas

Start at: 2018-11-30 07:29:04
End at: 2018-11-30 07:29:34
Local clock offset: -7.542 ms
Remote clock offset: -0.236 ms

Below is generated by plot.py at 2018-11-30 09:12:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 5.773 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.31 Mbit/s
95th percentile per-packet one-way delay: 12.260 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.04 Mbit/s
95th percentile per-packet one-way delay: 5.461 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 67.54 Mbit/s
95th percentile per-packet one-way delay: 5.713 ms
Loss rate: 0.01%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-11-30 07:50:42

End at: 2018-11-30 07:51:12

Local clock offset: -7.242 ms

Remote clock offset: 0.161 ms

Below is generated by plot.py at 2018-11-30 09:13:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.40 Mbit/s

95th percentile per-packet one-way delay: 5.787 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.33 Mbit/s

95th percentile per-packet one-way delay: 10.502 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 28.80 Mbit/s

95th percentile per-packet one-way delay: 4.032 ms

Loss rate: 0.00%

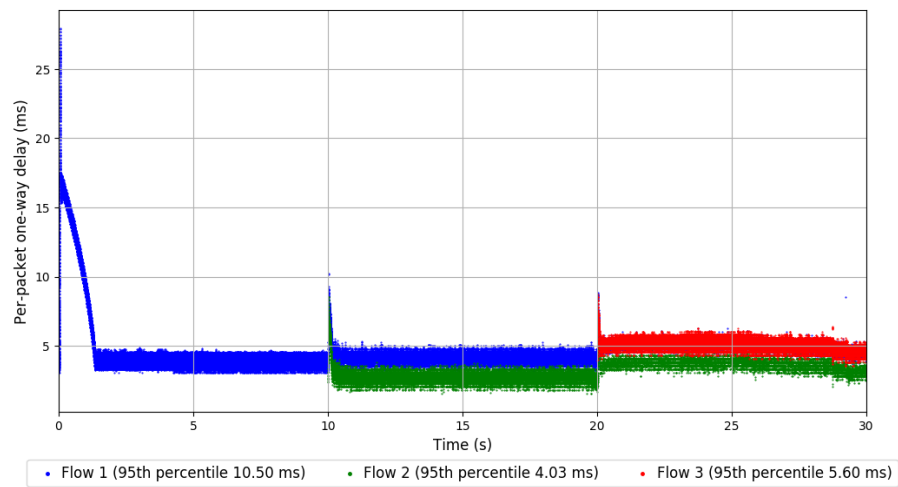
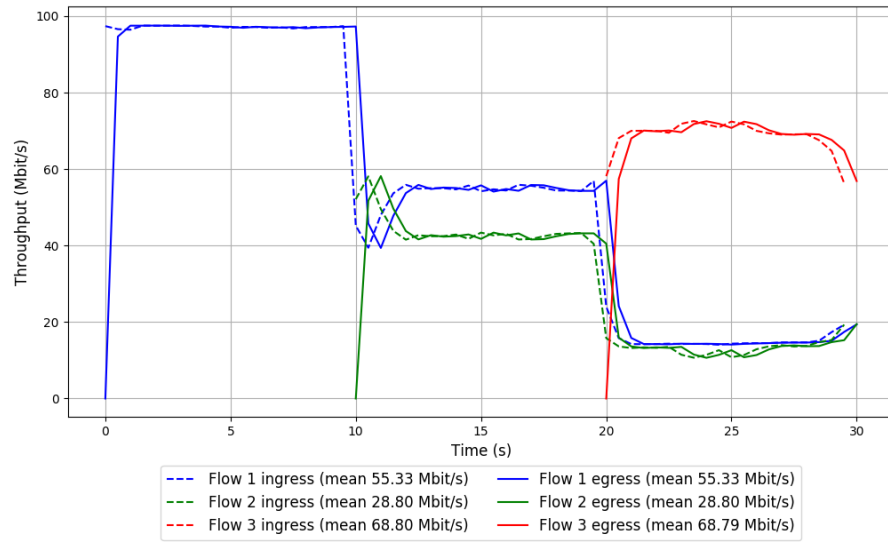
-- Flow 3:

Average throughput: 68.79 Mbit/s

95th percentile per-packet one-way delay: 5.600 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link

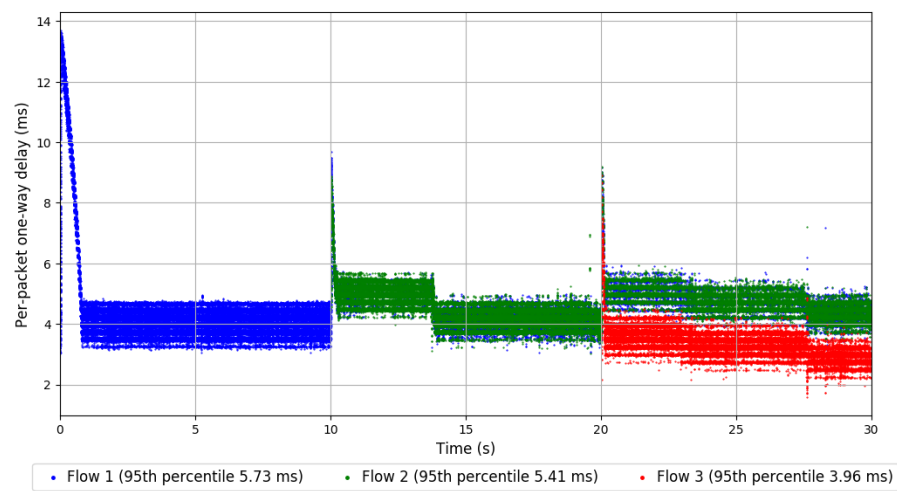
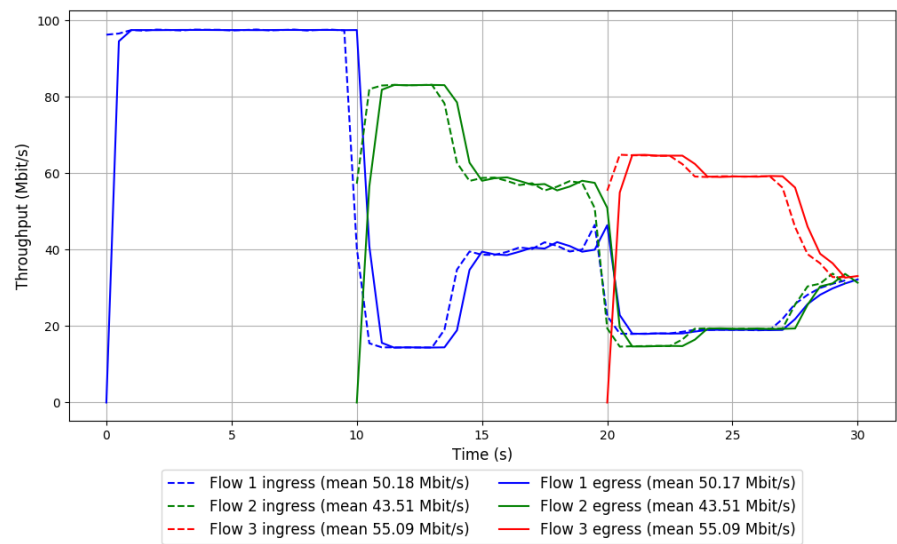


Run 3: Statistics of TCP Vegas

Start at: 2018-11-30 08:12:18
End at: 2018-11-30 08:12:48
Local clock offset: -6.579 ms
Remote clock offset: 0.522 ms

Below is generated by plot.py at 2018-11-30 09:13:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 5.394 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.17 Mbit/s
95th percentile per-packet one-way delay: 5.729 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 43.51 Mbit/s
95th percentile per-packet one-way delay: 5.414 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 55.09 Mbit/s
95th percentile per-packet one-way delay: 3.964 ms
Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-11-30 08:33:57

End at: 2018-11-30 08:34:27

Local clock offset: -6.161 ms

Remote clock offset: 0.795 ms

Below is generated by plot.py at 2018-11-30 09:13:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.09 Mbit/s

95th percentile per-packet one-way delay: 5.004 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 48.26 Mbit/s

95th percentile per-packet one-way delay: 3.317 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.92 Mbit/s

95th percentile per-packet one-way delay: 3.553 ms

Loss rate: 0.00%

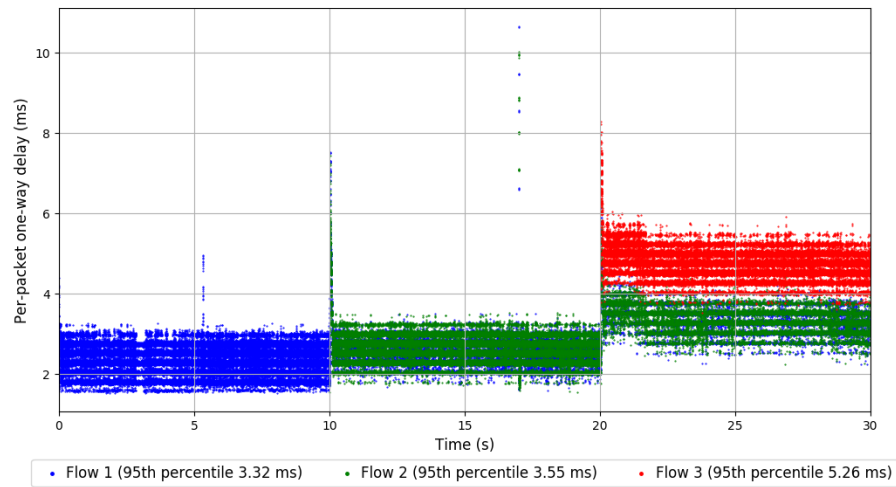
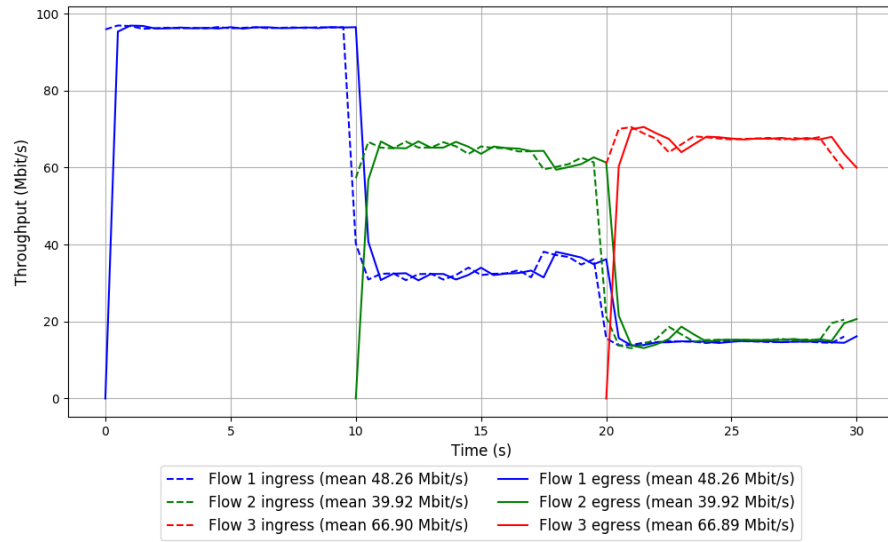
-- Flow 3:

Average throughput: 66.89 Mbit/s

95th percentile per-packet one-way delay: 5.264 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link

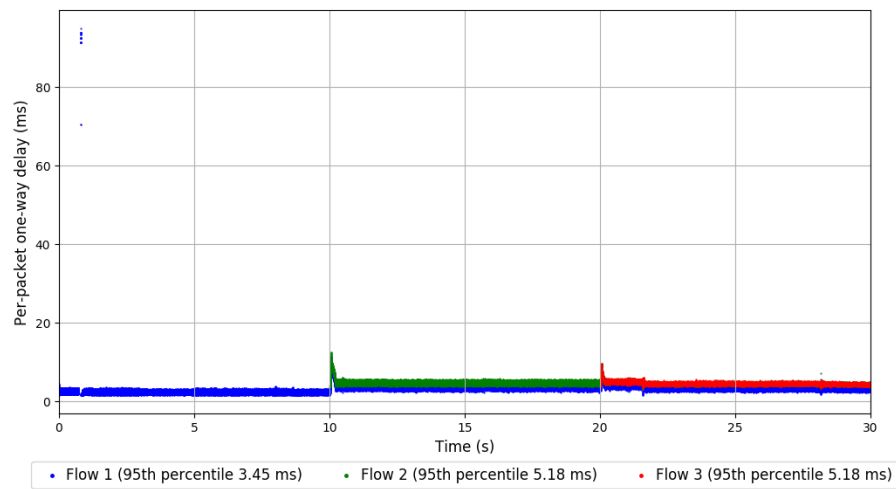
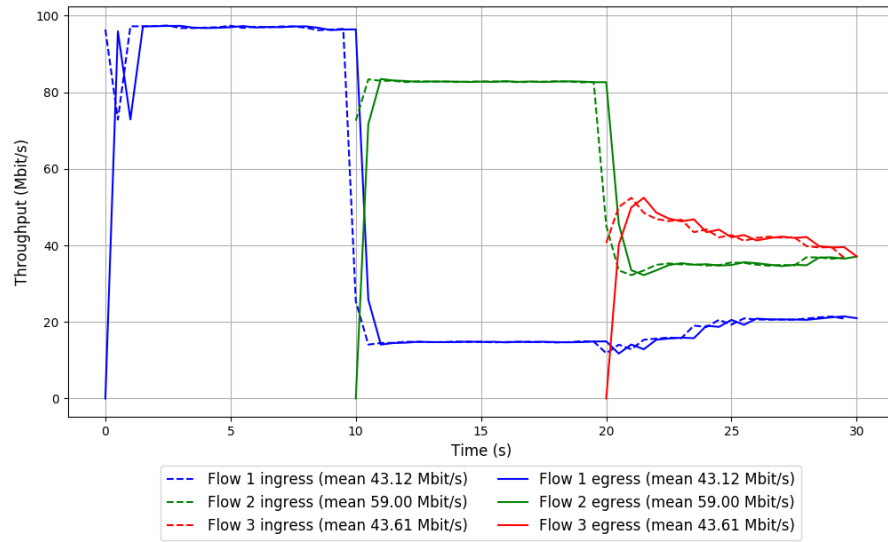


Run 5: Statistics of TCP Vegas

Start at: 2018-11-30 08:55:34
End at: 2018-11-30 08:56:04
Local clock offset: -7.146 ms
Remote clock offset: 0.781 ms

```
# Below is generated by plot.py at 2018-11-30 09:13:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.91 Mbit/s
95th percentile per-packet one-way delay: 5.129 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 43.12 Mbit/s
95th percentile per-packet one-way delay: 3.449 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 59.00 Mbit/s
95th percentile per-packet one-way delay: 5.178 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 43.61 Mbit/s
95th percentile per-packet one-way delay: 5.183 ms
Loss rate: 0.00%
```

Run 5: Report of TCP Vegas — Data Link

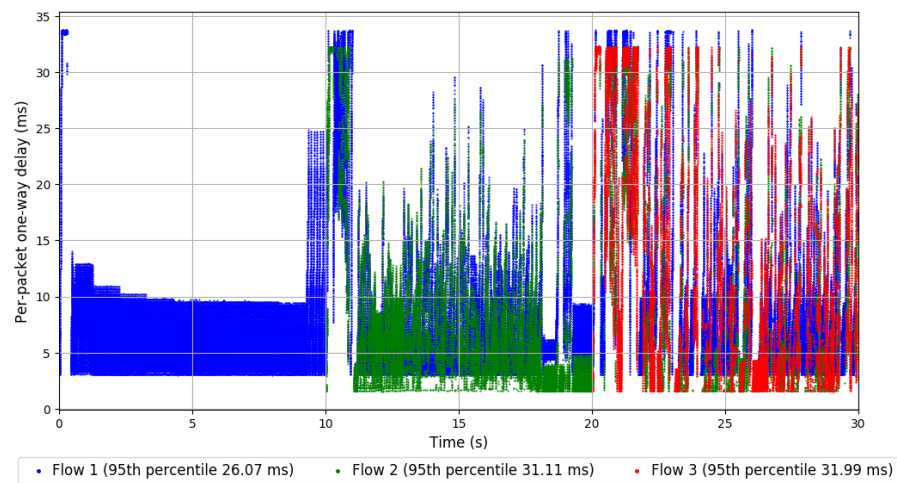
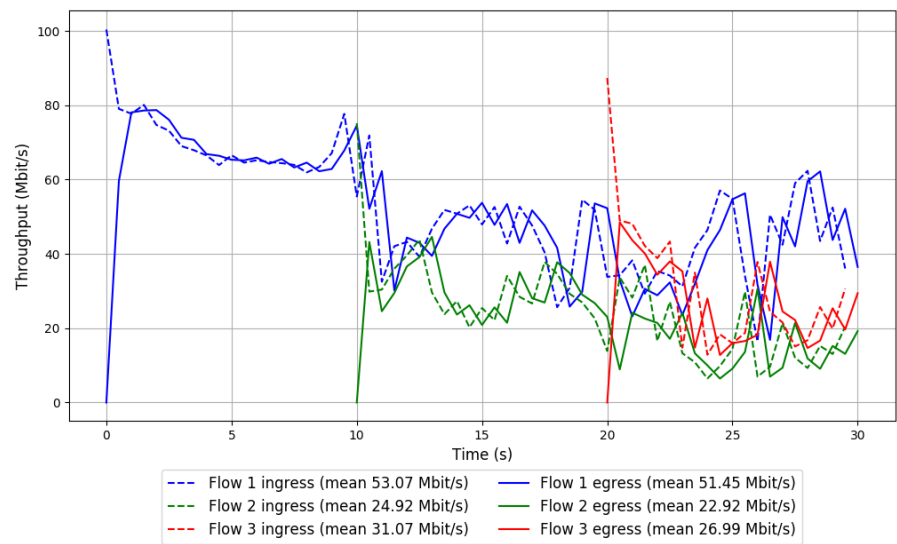


Run 1: Statistics of Verus

Start at: 2018-11-30 07:33:37
End at: 2018-11-30 07:34:07
Local clock offset: -7.689 ms
Remote clock offset: -0.235 ms

Below is generated by plot.py at 2018-11-30 09:13:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.65 Mbit/s
95th percentile per-packet one-way delay: 30.019 ms
Loss rate: 5.31%
-- Flow 1:
Average throughput: 51.45 Mbit/s
95th percentile per-packet one-way delay: 26.070 ms
Loss rate: 3.01%
-- Flow 2:
Average throughput: 22.92 Mbit/s
95th percentile per-packet one-way delay: 31.111 ms
Loss rate: 7.94%
-- Flow 3:
Average throughput: 26.99 Mbit/s
95th percentile per-packet one-way delay: 31.988 ms
Loss rate: 12.92%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-11-30 07:55:15

End at: 2018-11-30 07:55:45

Local clock offset: -6.223 ms

Remote clock offset: 0.163 ms

Below is generated by plot.py at 2018-11-30 09:13:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.95 Mbit/s

95th percentile per-packet one-way delay: 30.105 ms

Loss rate: 9.63%

-- Flow 1:

Average throughput: 35.34 Mbit/s

95th percentile per-packet one-way delay: 28.312 ms

Loss rate: 6.18%

-- Flow 2:

Average throughput: 26.10 Mbit/s

95th percentile per-packet one-way delay: 30.919 ms

Loss rate: 16.13%

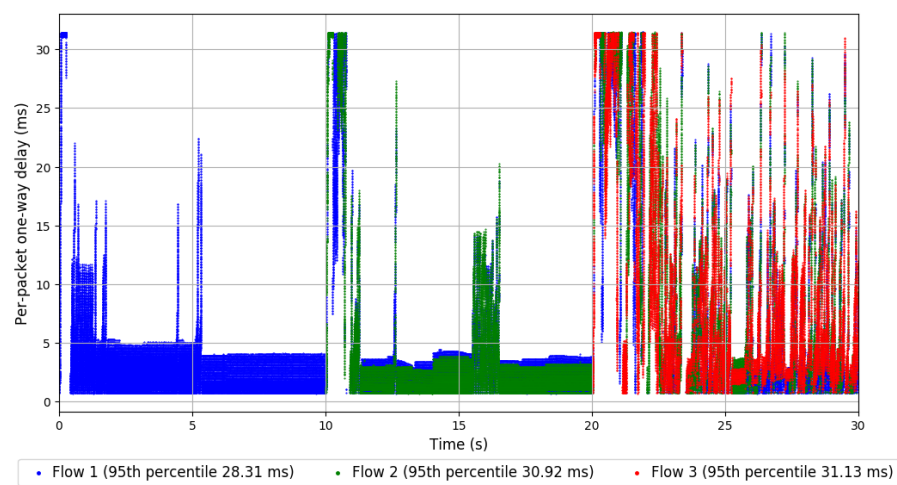
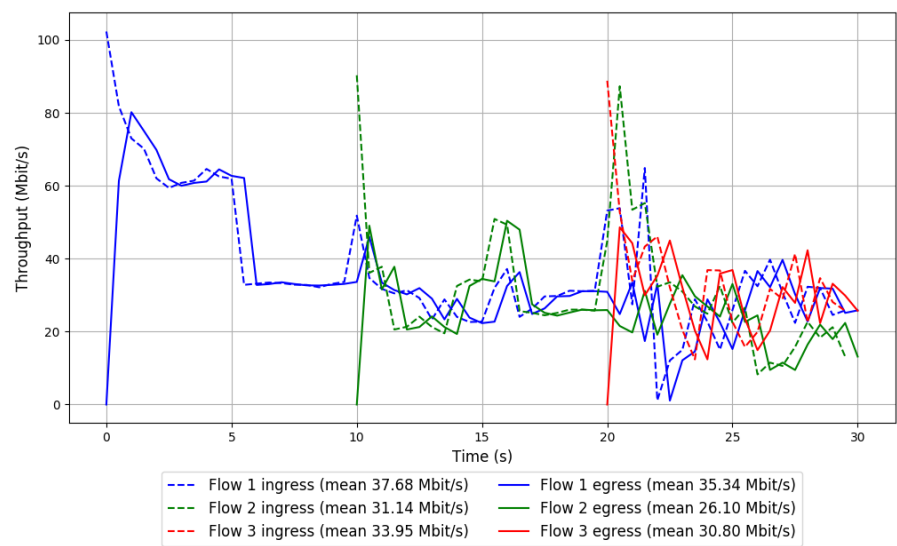
-- Flow 3:

Average throughput: 30.80 Mbit/s

95th percentile per-packet one-way delay: 31.131 ms

Loss rate: 9.18%

Run 2: Report of Verus — Data Link

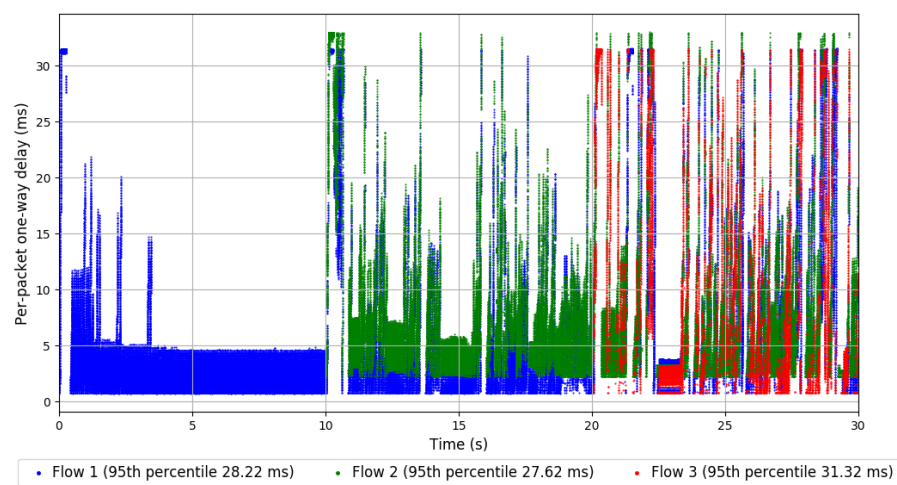
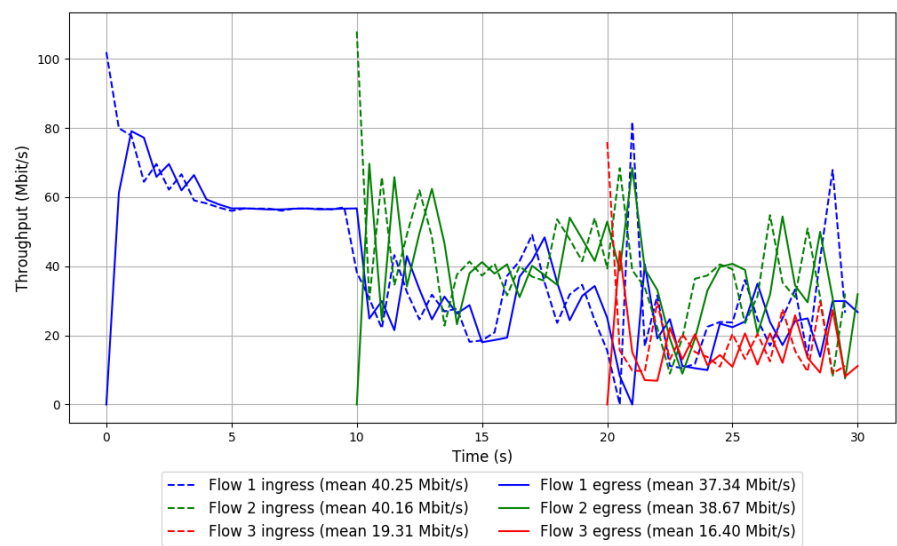


Run 3: Statistics of Verus

Start at: 2018-11-30 08:16:52
End at: 2018-11-30 08:17:22
Local clock offset: -5.726 ms
Remote clock offset: 0.582 ms

```
# Below is generated by plot.py at 2018-11-30 09:13:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.51 Mbit/s
95th percentile per-packet one-way delay: 29.594 ms
Loss rate: 6.58%
-- Flow 1:
Average throughput: 37.34 Mbit/s
95th percentile per-packet one-way delay: 28.218 ms
Loss rate: 7.19%
-- Flow 2:
Average throughput: 38.67 Mbit/s
95th percentile per-packet one-way delay: 27.623 ms
Loss rate: 3.64%
-- Flow 3:
Average throughput: 16.40 Mbit/s
95th percentile per-packet one-way delay: 31.322 ms
Loss rate: 15.02%
```

Run 3: Report of Verus — Data Link

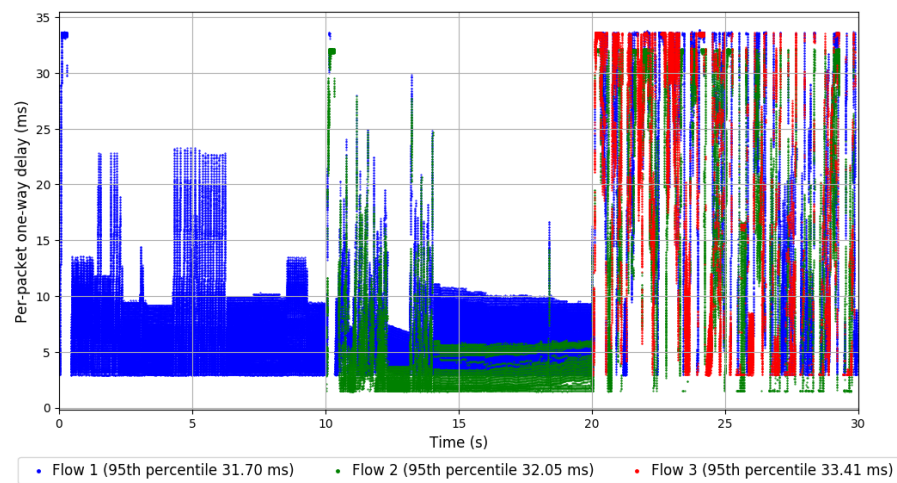
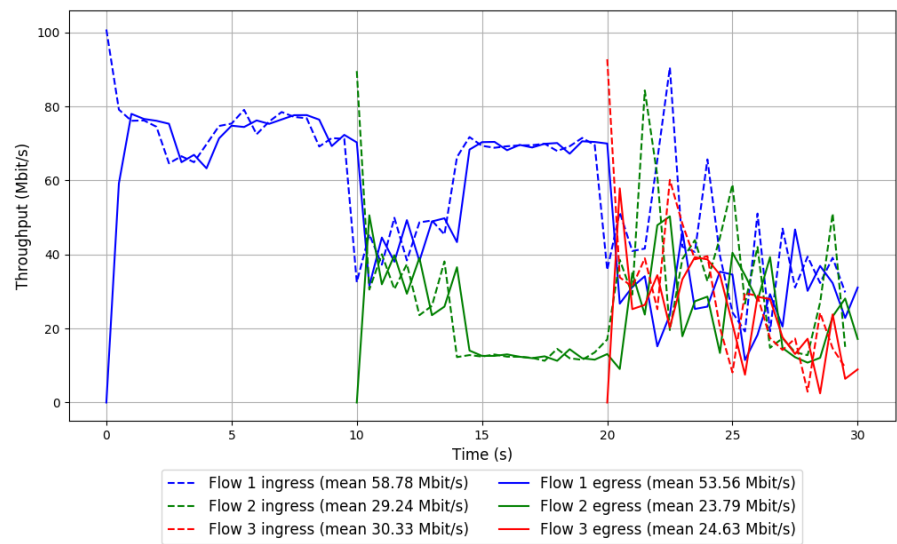


Run 4: Statistics of Verus

Start at: 2018-11-30 08:38:30
End at: 2018-11-30 08:39:00
Local clock offset: -6.087 ms
Remote clock offset: 0.72 ms

Below is generated by plot.py at 2018-11-30 09:14:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.38 Mbit/s
95th percentile per-packet one-way delay: 32.103 ms
Loss rate: 12.08%
-- Flow 1:
Average throughput: 53.56 Mbit/s
95th percentile per-packet one-way delay: 31.701 ms
Loss rate: 8.87%
-- Flow 2:
Average throughput: 23.79 Mbit/s
95th percentile per-packet one-way delay: 32.049 ms
Loss rate: 18.50%
-- Flow 3:
Average throughput: 24.63 Mbit/s
95th percentile per-packet one-way delay: 33.408 ms
Loss rate: 18.61%

Run 4: Report of Verus — Data Link

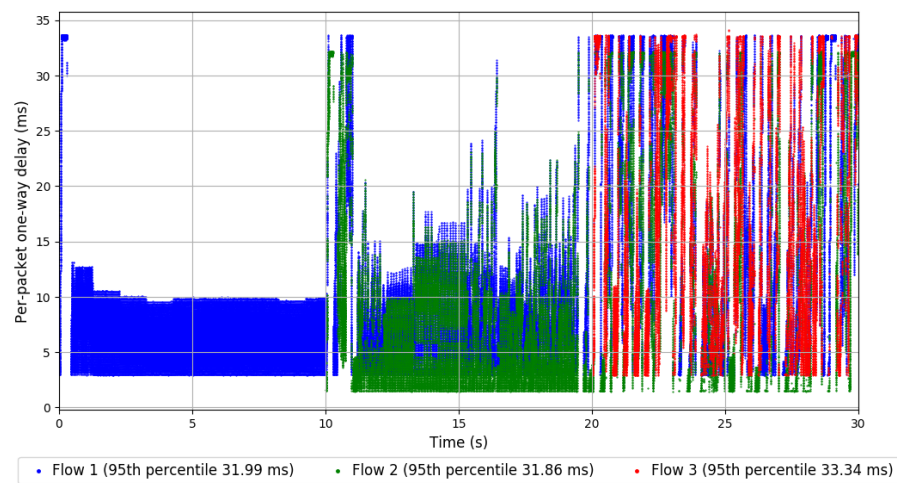
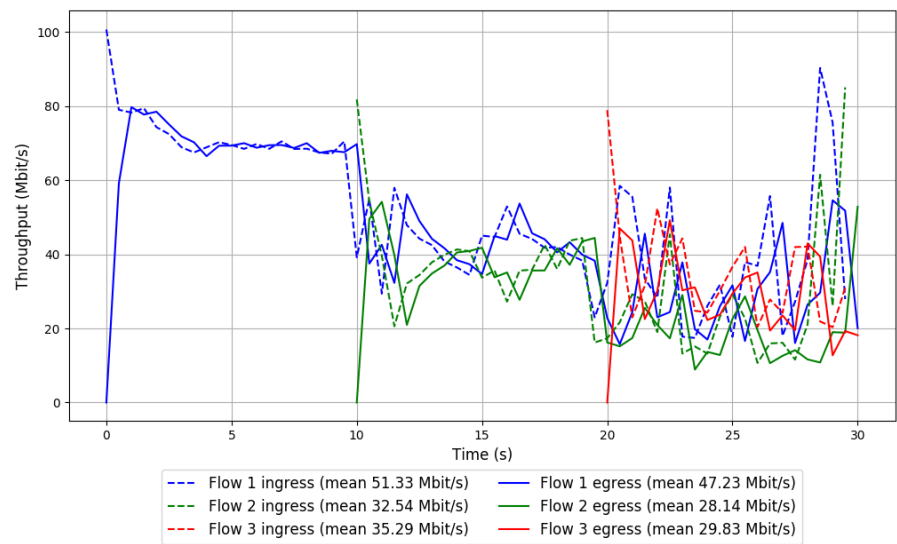


Run 5: Statistics of Verus

Start at: 2018-11-30 09:00:08
End at: 2018-11-30 09:00:38
Local clock offset: -7.366 ms
Remote clock offset: 0.753 ms

Below is generated by plot.py at 2018-11-30 09:14:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.87 Mbit/s
95th percentile per-packet one-way delay: 32.017 ms
Loss rate: 10.34%
-- Flow 1:
Average throughput: 47.23 Mbit/s
95th percentile per-packet one-way delay: 31.989 ms
Loss rate: 7.92%
-- Flow 2:
Average throughput: 28.14 Mbit/s
95th percentile per-packet one-way delay: 31.855 ms
Loss rate: 13.44%
-- Flow 3:
Average throughput: 29.83 Mbit/s
95th percentile per-packet one-way delay: 33.345 ms
Loss rate: 15.22%

Run 5: Report of Verus — Data Link

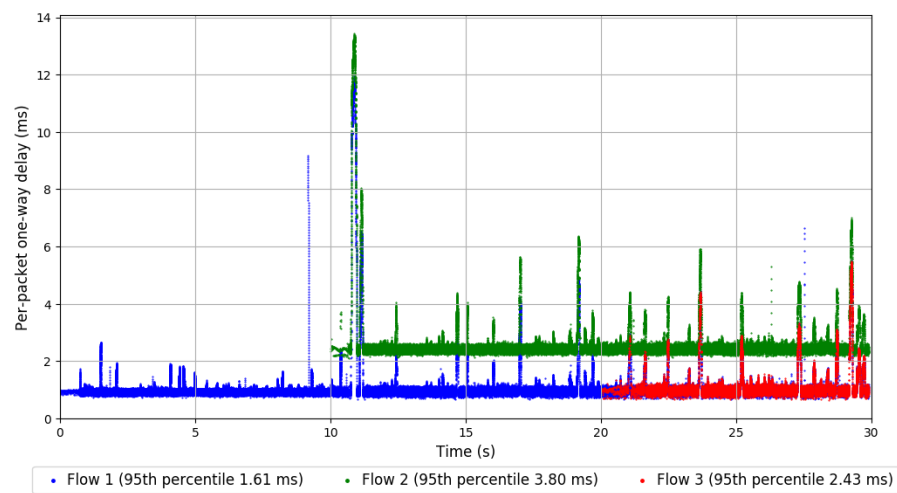
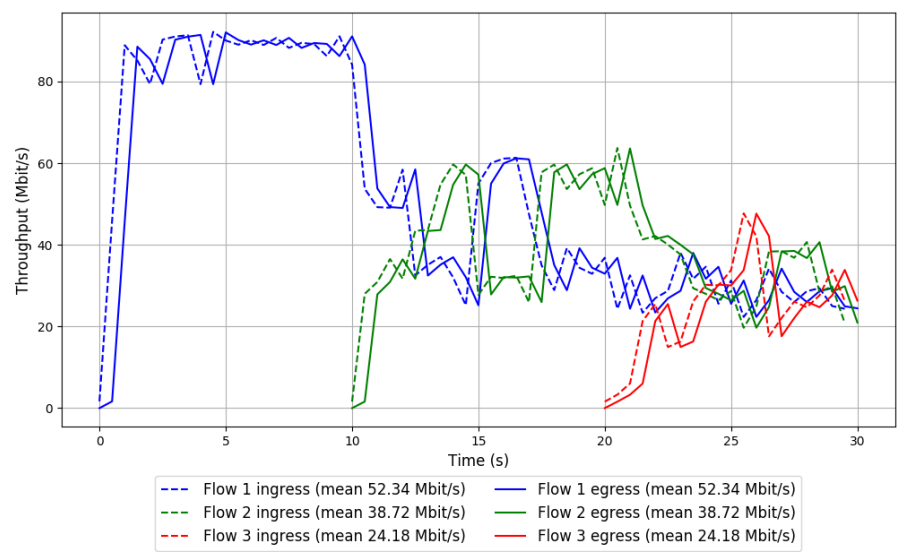


Run 1: Statistics of PCC-Vivace

Start at: 2018-11-30 07:26:44
End at: 2018-11-30 07:27:14
Local clock offset: -6.704 ms
Remote clock offset: -0.243 ms

Below is generated by plot.py at 2018-11-30 09:14:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.07 Mbit/s
95th percentile per-packet one-way delay: 2.727 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 52.34 Mbit/s
95th percentile per-packet one-way delay: 1.612 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.72 Mbit/s
95th percentile per-packet one-way delay: 3.802 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.18 Mbit/s
95th percentile per-packet one-way delay: 2.432 ms
Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-11-30 07:48:22

End at: 2018-11-30 07:48:52

Local clock offset: -7.438 ms

Remote clock offset: 0.084 ms

Below is generated by plot.py at 2018-11-30 09:14:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.58 Mbit/s

95th percentile per-packet one-way delay: 3.720 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 60.31 Mbit/s

95th percentile per-packet one-way delay: 3.642 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 27.11 Mbit/s

95th percentile per-packet one-way delay: 2.955 ms

Loss rate: 0.00%

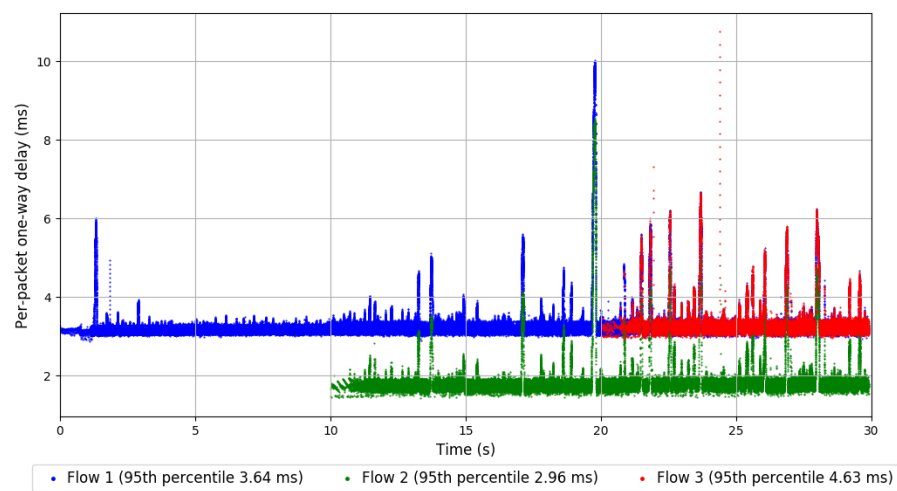
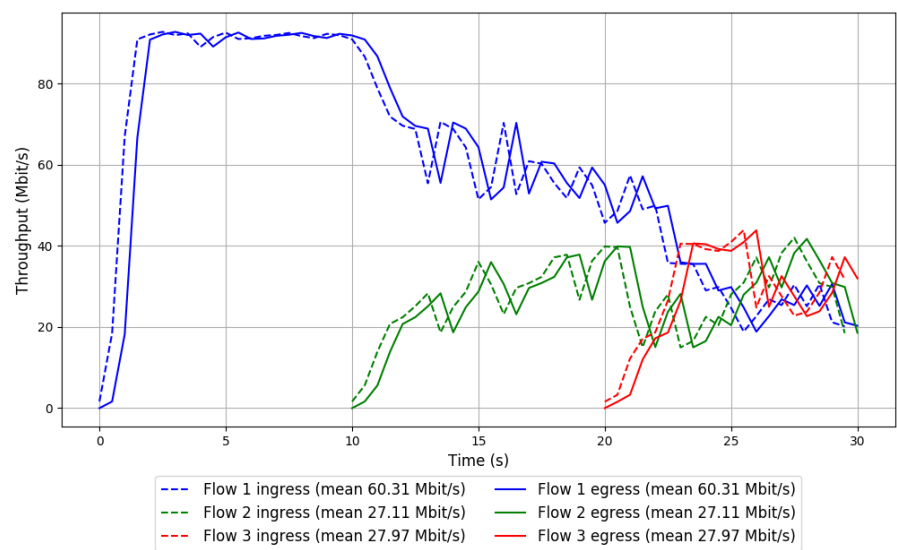
-- Flow 3:

Average throughput: 27.97 Mbit/s

95th percentile per-packet one-way delay: 4.626 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-11-30 08:09:59

End at: 2018-11-30 08:10:29

Local clock offset: -5.841 ms

Remote clock offset: 0.492 ms

Below is generated by plot.py at 2018-11-30 09:14:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.04 Mbit/s

95th percentile per-packet one-way delay: 3.898 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 48.90 Mbit/s

95th percentile per-packet one-way delay: 1.799 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.71 Mbit/s

95th percentile per-packet one-way delay: 4.755 ms

Loss rate: 0.00%

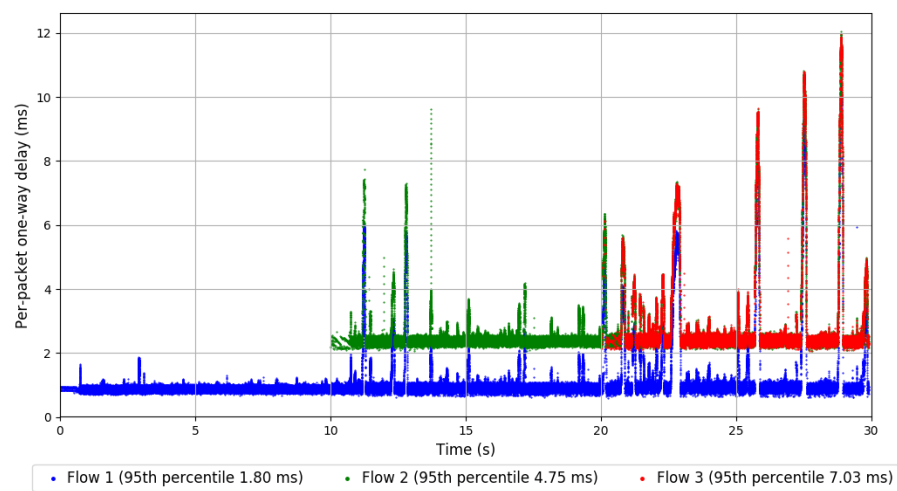
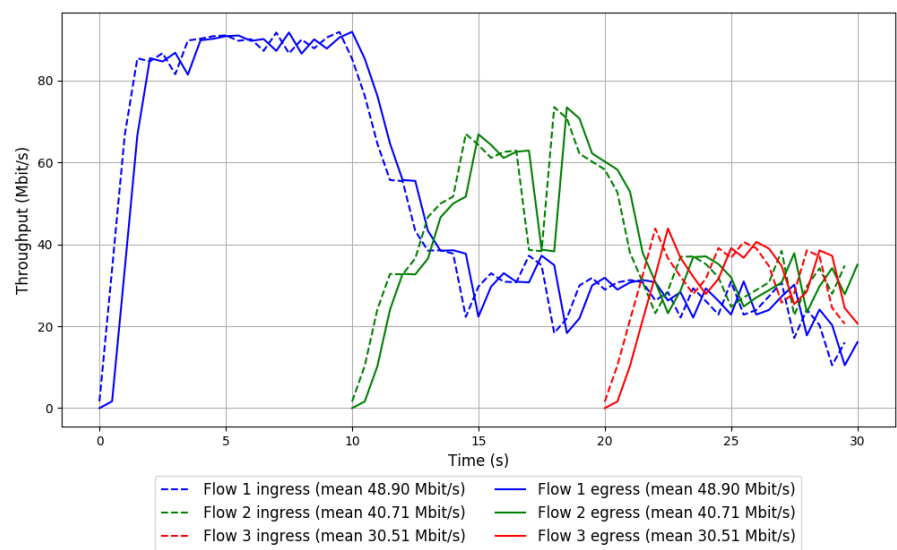
-- Flow 3:

Average throughput: 30.51 Mbit/s

95th percentile per-packet one-way delay: 7.032 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-11-30 08:31:37

End at: 2018-11-30 08:32:07

Local clock offset: -6.258 ms

Remote clock offset: 0.816 ms

Below is generated by plot.py at 2018-11-30 09:14:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.50 Mbit/s

95th percentile per-packet one-way delay: 2.859 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.25 Mbit/s

95th percentile per-packet one-way delay: 2.266 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 36.64 Mbit/s

95th percentile per-packet one-way delay: 3.432 ms

Loss rate: 0.00%

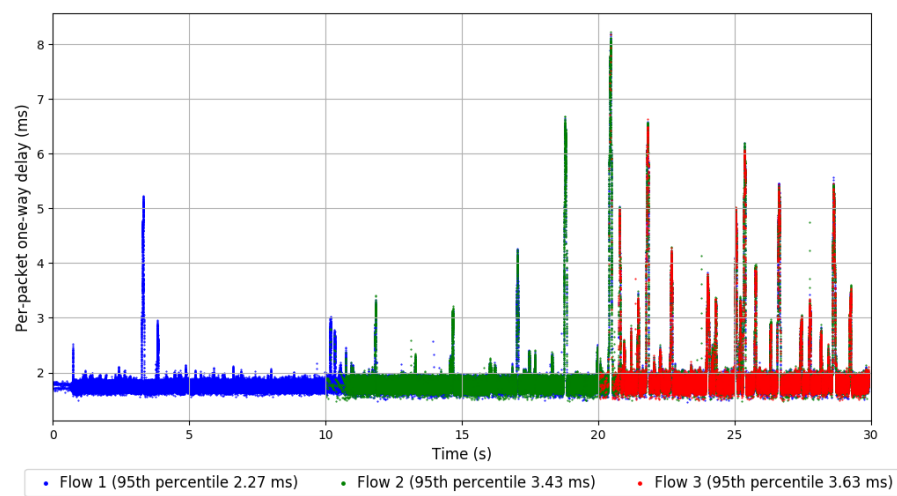
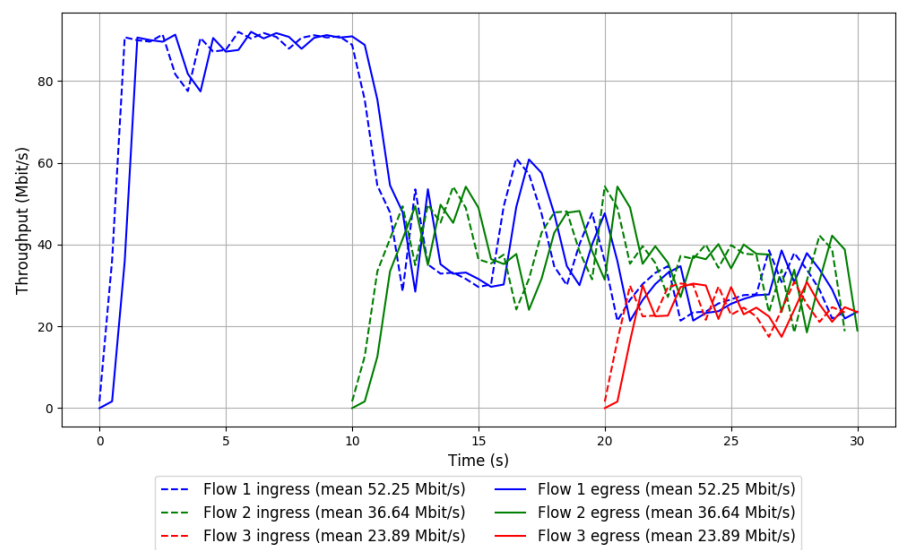
-- Flow 3:

Average throughput: 23.89 Mbit/s

95th percentile per-packet one-way delay: 3.629 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-11-30 08:53:15

End at: 2018-11-30 08:53:45

Local clock offset: -6.243 ms

Remote clock offset: 0.782 ms

Below is generated by plot.py at 2018-11-30 09:14:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.82 Mbit/s

95th percentile per-packet one-way delay: 2.600 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.84 Mbit/s

95th percentile per-packet one-way delay: 2.675 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 28.38 Mbit/s

95th percentile per-packet one-way delay: 1.863 ms

Loss rate: 0.00%

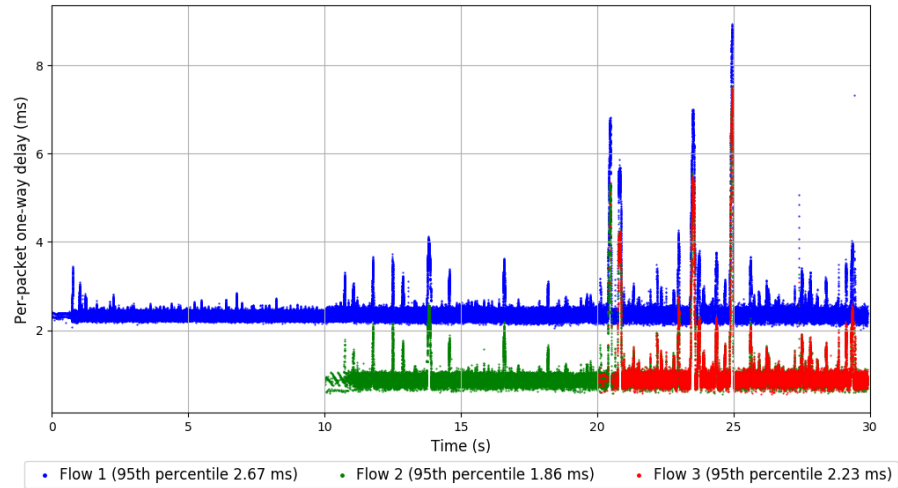
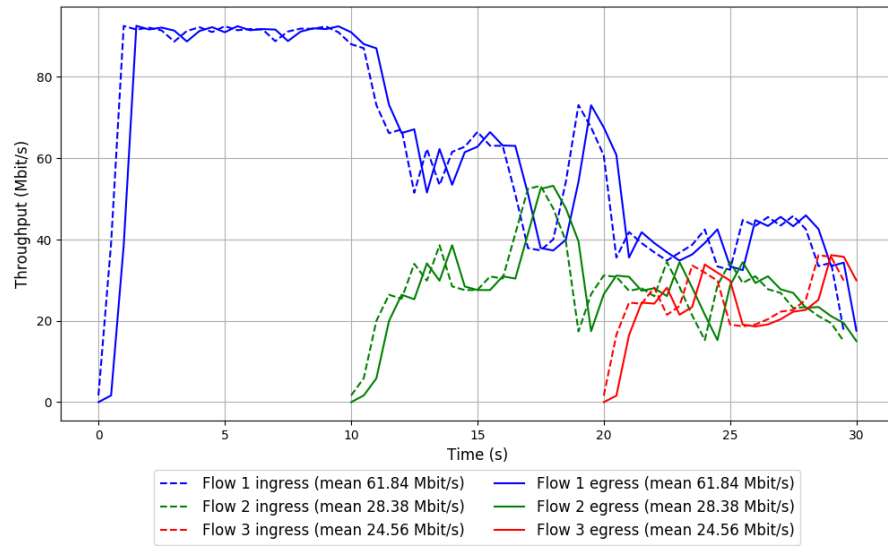
-- Flow 3:

Average throughput: 24.56 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link

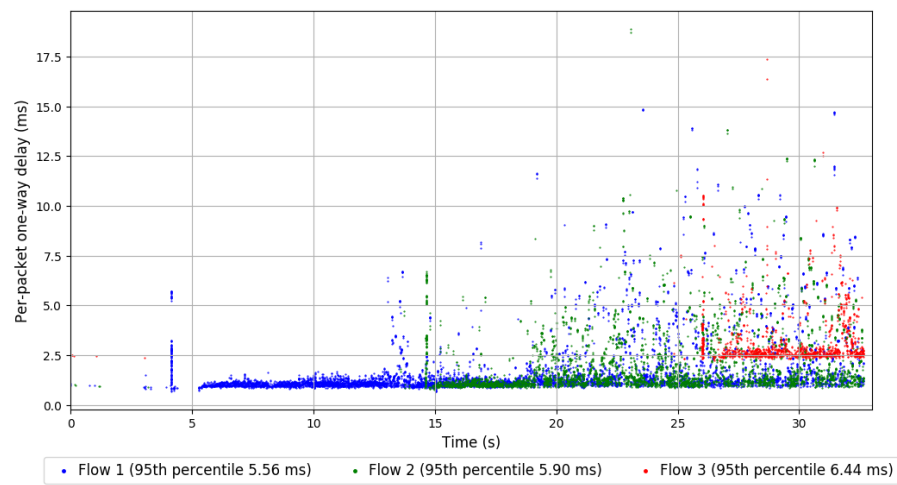
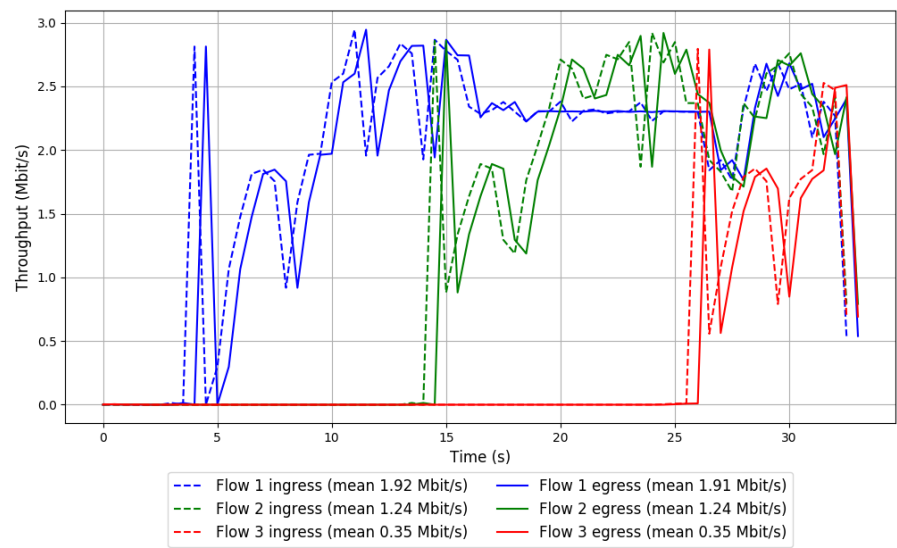


Run 1: Statistics of WebRTC media

Start at: 2018-11-30 07:31:22
End at: 2018-11-30 07:31:52
Local clock offset: -6.844 ms
Remote clock offset: -0.243 ms

Below is generated by plot.py at 2018-11-30 09:14:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.50 Mbit/s
95th percentile per-packet one-way delay: 5.858 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 1.91 Mbit/s
95th percentile per-packet one-way delay: 5.561 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 1.24 Mbit/s
95th percentile per-packet one-way delay: 5.903 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 6.441 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-11-30 07:53:01

End at: 2018-11-30 07:53:31

Local clock offset: -6.407 ms

Remote clock offset: 0.187 ms

Below is generated by plot.py at 2018-11-30 09:14:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.51 Mbit/s

95th percentile per-packet one-way delay: 5.342 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 4.934 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 5.248 ms

Loss rate: 0.00%

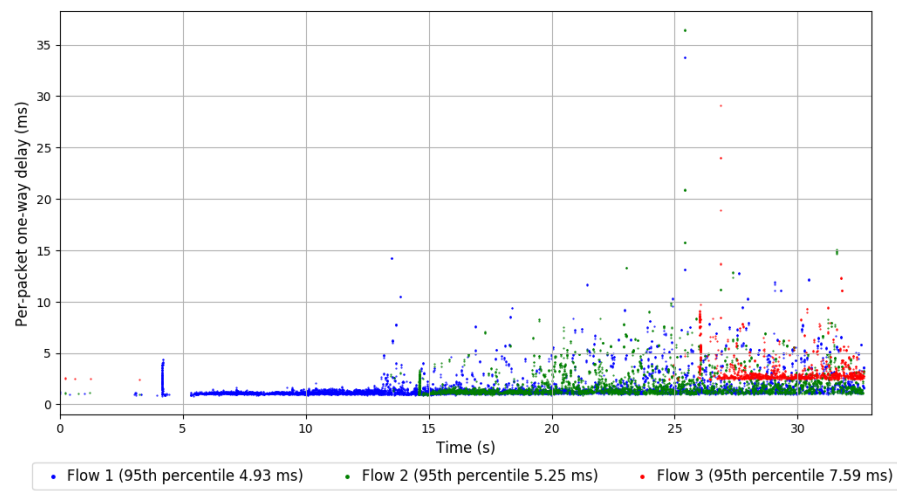
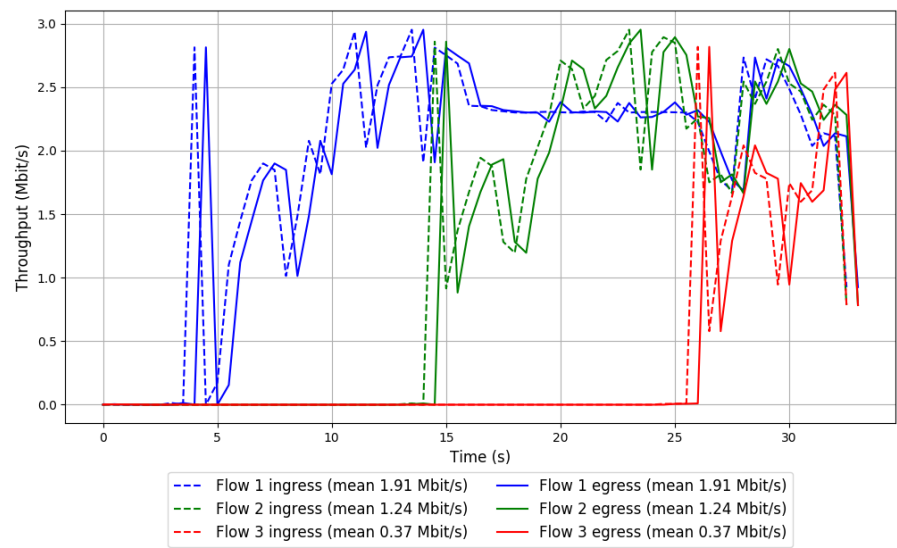
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 7.595 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-11-30 08:14:37

End at: 2018-11-30 08:15:07

Local clock offset: -5.797 ms

Remote clock offset: 0.471 ms

Below is generated by plot.py at 2018-11-30 09:14:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.61 Mbit/s

95th percentile per-packet one-way delay: 5.458 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 4.411 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 6.334 ms

Loss rate: 0.00%

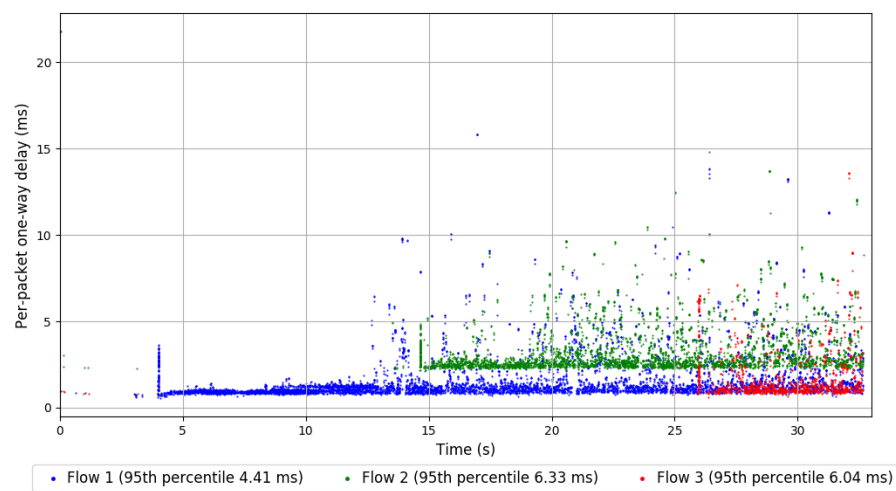
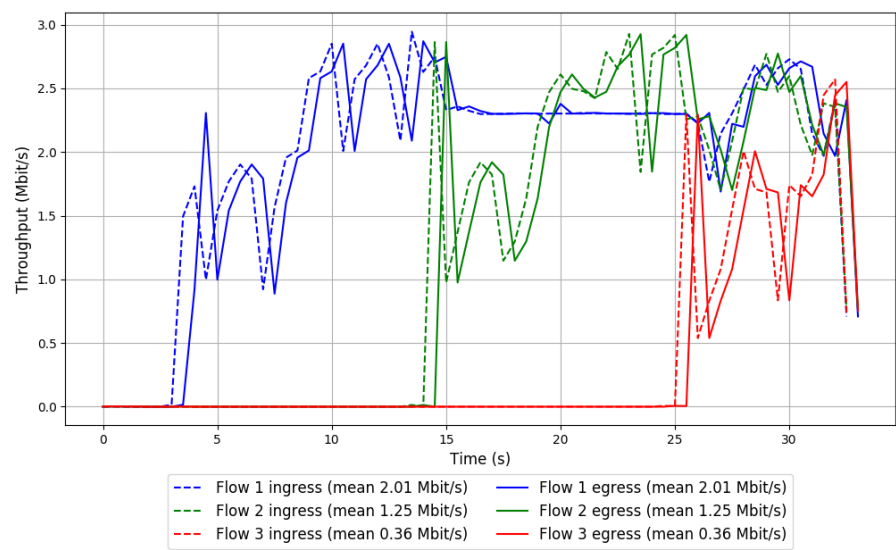
-- Flow 3:

Average throughput: 0.36 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-11-30 08:36:15

End at: 2018-11-30 08:36:45

Local clock offset: -5.345 ms

Remote clock offset: 0.767 ms

Below is generated by plot.py at 2018-11-30 09:14:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.53 Mbit/s

95th percentile per-packet one-way delay: 6.058 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 6.689 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 5.158 ms

Loss rate: 0.00%

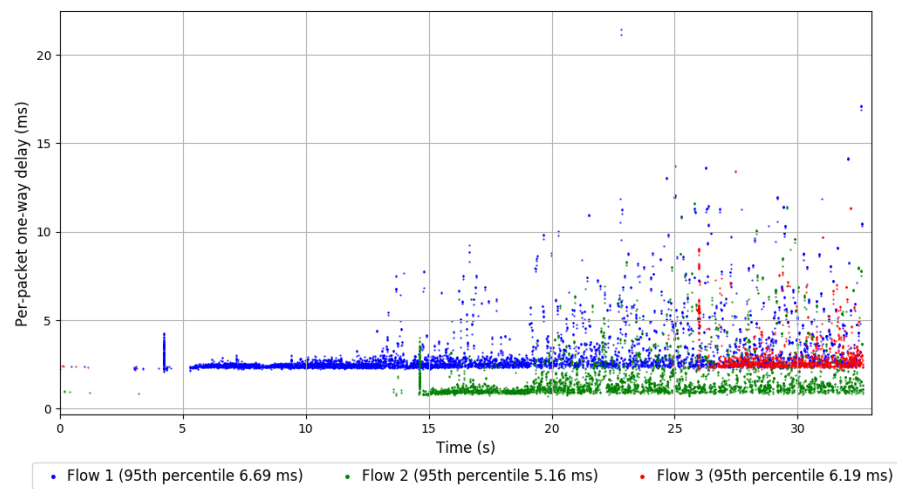
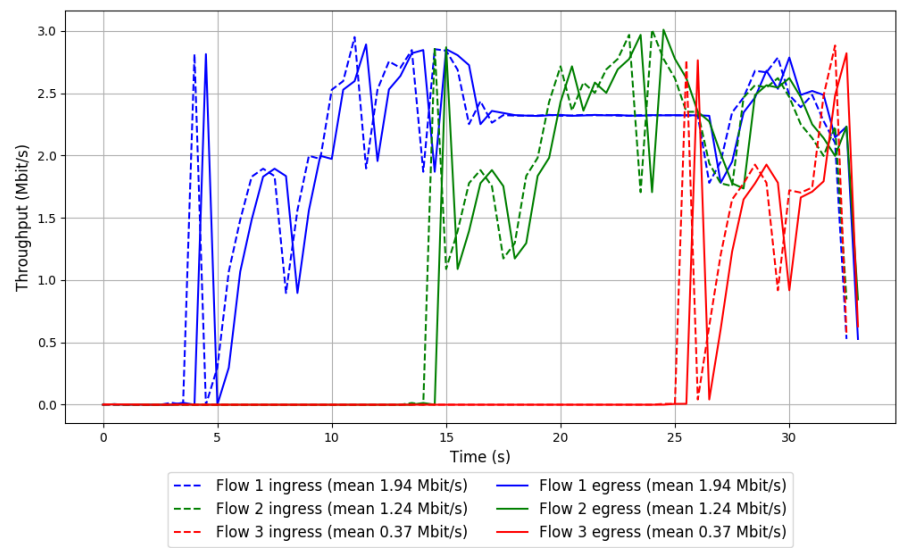
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 6.187 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-11-30 08:57:53

End at: 2018-11-30 08:58:23

Local clock offset: -6.492 ms

Remote clock offset: 0.763 ms

Below is generated by plot.py at 2018-11-30 09:14:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.48 Mbit/s

95th percentile per-packet one-way delay: 6.166 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 6.080 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 6.265 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 5.818 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

