

Pantheon Report

Generated at 2018-12-02 06:46:11 (UTC).

Data path: AWS India 1 on `ens5` (*local*) → India on `em1` (*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 `nets.org.sg` and have been applied to correct the timestamps in logs.

System info:

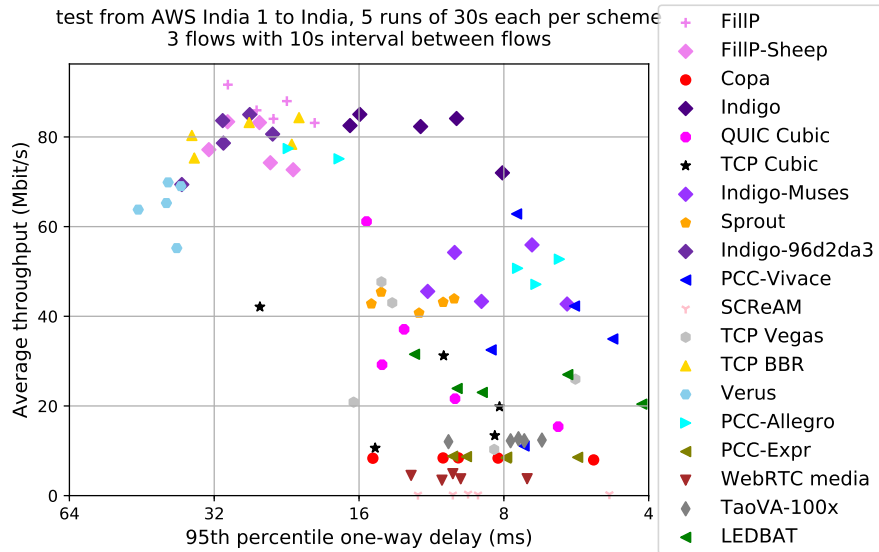
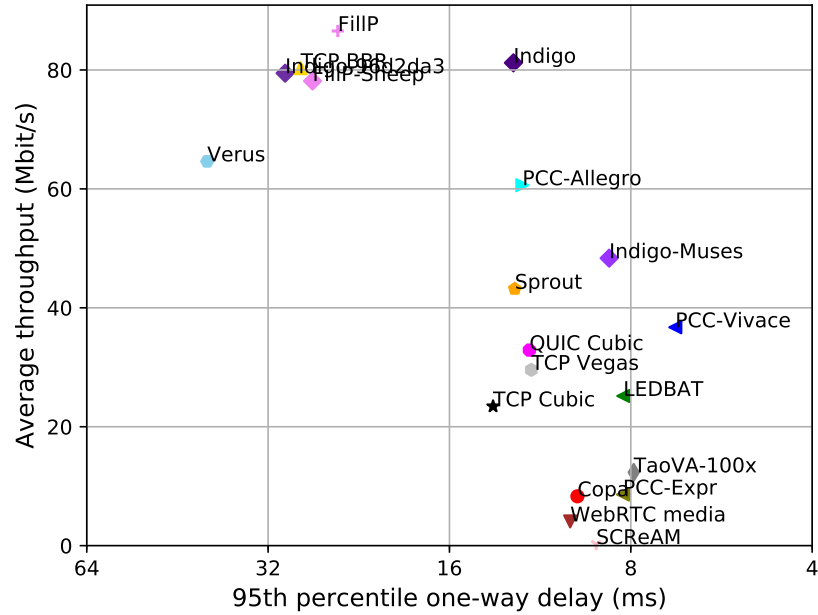
```
Linux 4.15.0-1027-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ 7b6dad87cde3ab65f7c4052140eb54098aa58e9d
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/indigo-96d2da3 @ 8413272d46f8aa0bcb967ed7048b6a8f994abb95
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 65ac1b19bbefed0c6349ae986009b4fa8643c40a
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
```

```
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from AWS India 1 to India, 5 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



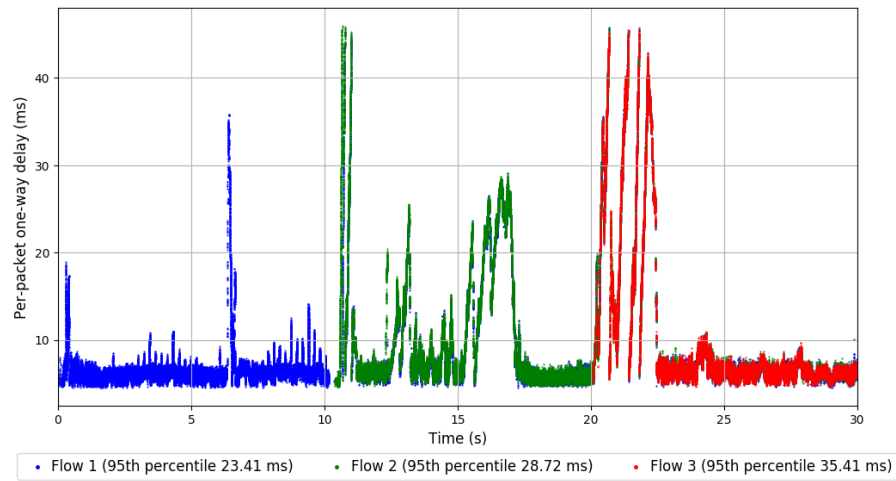
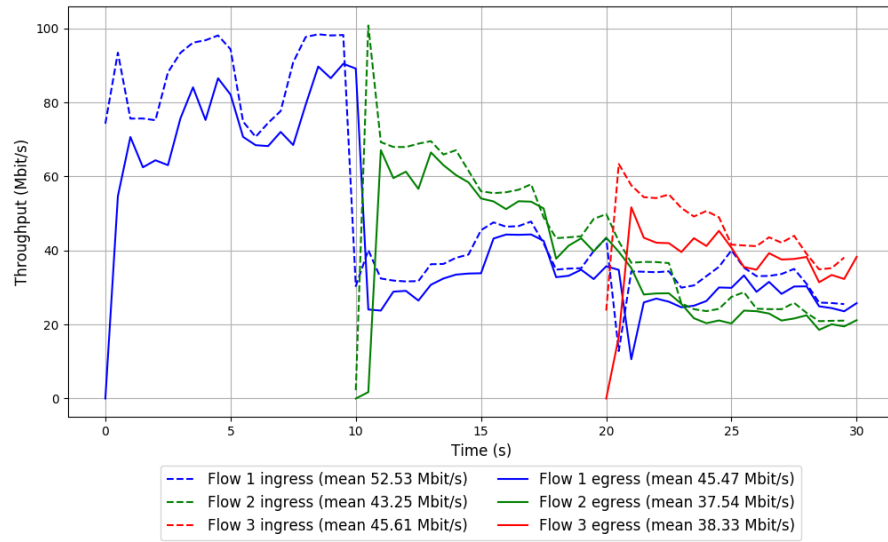
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	44.88	37.21	32.68	24.74	30.96	29.60	14.62	15.50	16.38
Copa	5	0.00	9.69	5.57	7.89	9.97	9.40	98.17	51.52	65.12
TCP Cubic	5	13.07	11.10	8.91	10.91	15.44	14.01	0.78	0.95	1.24
FillP	5	50.33	39.96	29.31	23.50	27.73	17.66	25.98	36.29	43.01
FillP-Sheep	5	45.91	34.42	28.16	23.65	28.42	32.24	14.10	16.18	20.10
Indigo	5	46.37	35.41	34.78	11.95	13.04	14.55	11.99	14.50	15.83
Indigo-96d2da3	5	48.00	34.89	26.01	30.68	28.45	27.62	48.93	50.59	55.72
LEDBAT	5	13.41	12.13	10.55	8.37	8.14	7.78	0.67	0.78	1.04
Indigo-Muses	5	26.10	19.41	28.28	9.44	8.07	9.33	4.60	4.35	6.88
PCC-Allegro	5	37.98	32.61	2.90	11.65	12.95	12.54	10.31	12.15	12.07
PCC-Expr	5	0.07	10.09	5.75	6.76	8.31	8.08	85.71	35.57	30.77
QUIC Cubic	5	18.44	15.17	13.23	15.14	11.20	11.20	2.23	2.59	4.05
SCReAM	5	0.12	0.14	0.16	9.07	9.25	9.04	1.32	2.12	1.65
Sprout	5	22.10	21.59	20.45	12.43	12.22	12.69	5.13	6.05	7.78
TaoVA-100x	5	6.19	5.88	6.94	7.83	7.83	10.49	82.94	79.40	72.97
TCP Vegas	5	16.86	13.14	11.88	10.45	15.41	10.45	0.59	1.22	1.17
Verus	5	38.67	27.82	25.06	36.04	38.97	47.43	43.67	43.31	52.94
PCC-Vivace	5	24.99	14.03	7.28	6.73	6.67	7.19	4.77	5.56	5.12
WebRTC media	5	2.24	1.38	0.46	10.04	10.31	9.47	0.78	1.06	0.82

Run 1: Statistics of TCP BBR

Start at: 2018-12-02 04:55:30
End at: 2018-12-02 04:56:00
Local clock offset: 1.693 ms
Remote clock offset: -1.867 ms

Below is generated by plot.py at 2018-12-02 06:39:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.22 Mbit/s
95th percentile per-packet one-way delay: 27.065 ms
Loss rate: 13.77%
-- Flow 1:
Average throughput: 45.47 Mbit/s
95th percentile per-packet one-way delay: 23.406 ms
Loss rate: 13.45%
-- Flow 2:
Average throughput: 37.54 Mbit/s
95th percentile per-packet one-way delay: 28.718 ms
Loss rate: 13.21%
-- Flow 3:
Average throughput: 38.33 Mbit/s
95th percentile per-packet one-way delay: 35.409 ms
Loss rate: 15.96%

Run 1: Report of TCP BBR — Data Link

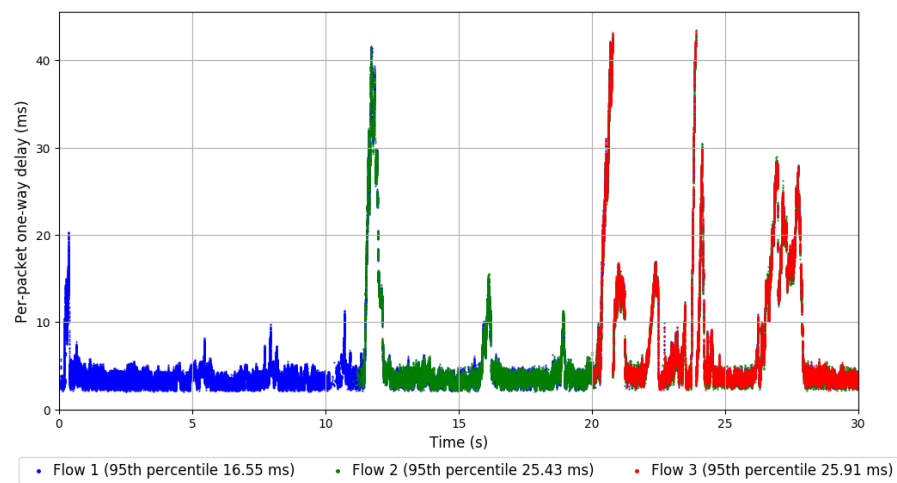
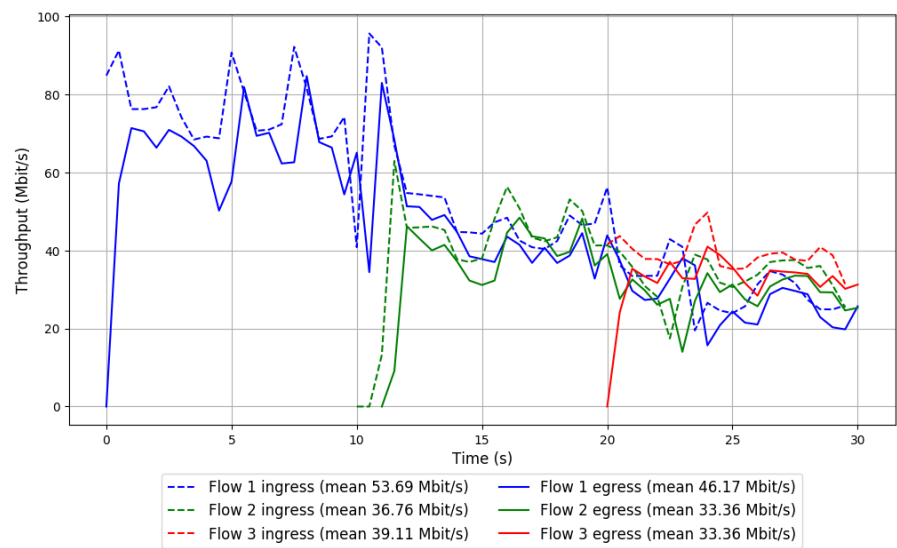


Run 2: Statistics of TCP BBR

Start at: 2018-12-02 05:18:17
End at: 2018-12-02 05:18:47
Local clock offset: 4.244 ms
Remote clock offset: -2.291 ms

Below is generated by plot.py at 2018-12-02 06:39:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.37 Mbit/s
95th percentile per-packet one-way delay: 22.081 ms
Loss rate: 14.08%
-- Flow 1:
Average throughput: 46.17 Mbit/s
95th percentile per-packet one-way delay: 16.547 ms
Loss rate: 14.03%
-- Flow 2:
Average throughput: 33.36 Mbit/s
95th percentile per-packet one-way delay: 25.434 ms
Loss rate: 13.88%
-- Flow 3:
Average throughput: 33.36 Mbit/s
95th percentile per-packet one-way delay: 25.911 ms
Loss rate: 14.70%

Run 2: Report of TCP BBR — Data Link

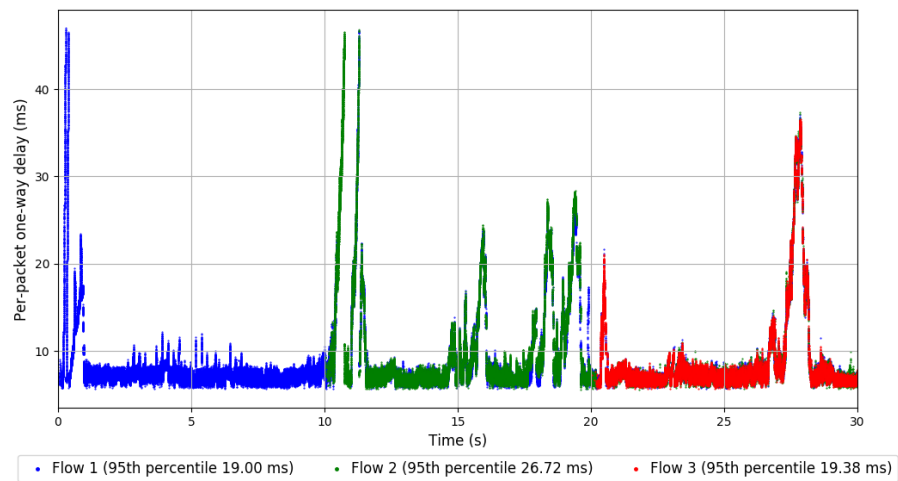
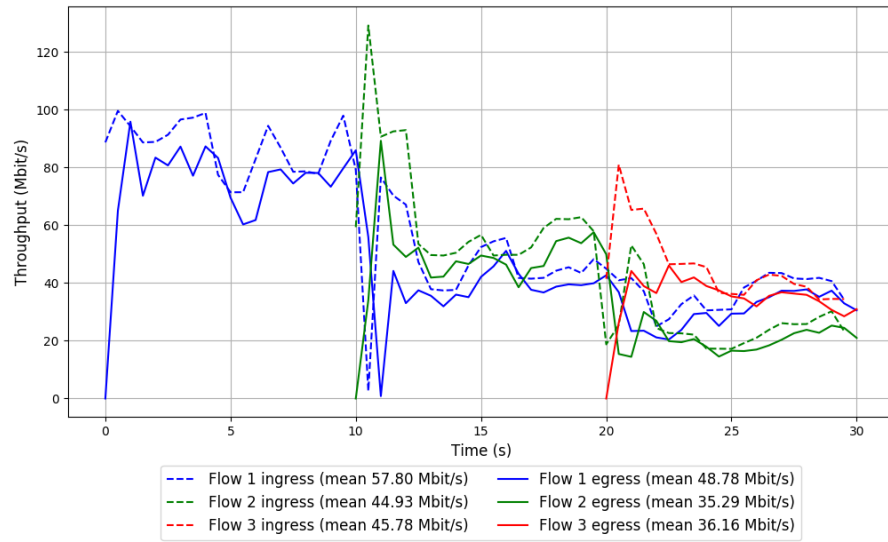


Run 3: Statistics of TCP BBR

Start at: 2018-12-02 05:40:43
End at: 2018-12-02 05:41:13
Local clock offset: 0.517 ms
Remote clock offset: -2.464 ms

Below is generated by plot.py at 2018-12-02 06:39:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.31 Mbit/s
95th percentile per-packet one-way delay: 21.325 ms
Loss rate: 18.10%
-- Flow 1:
Average throughput: 48.78 Mbit/s
95th percentile per-packet one-way delay: 19.000 ms
Loss rate: 15.60%
-- Flow 2:
Average throughput: 35.29 Mbit/s
95th percentile per-packet one-way delay: 26.718 ms
Loss rate: 21.47%
-- Flow 3:
Average throughput: 36.16 Mbit/s
95th percentile per-packet one-way delay: 19.380 ms
Loss rate: 21.01%

Run 3: Report of TCP BBR — Data Link

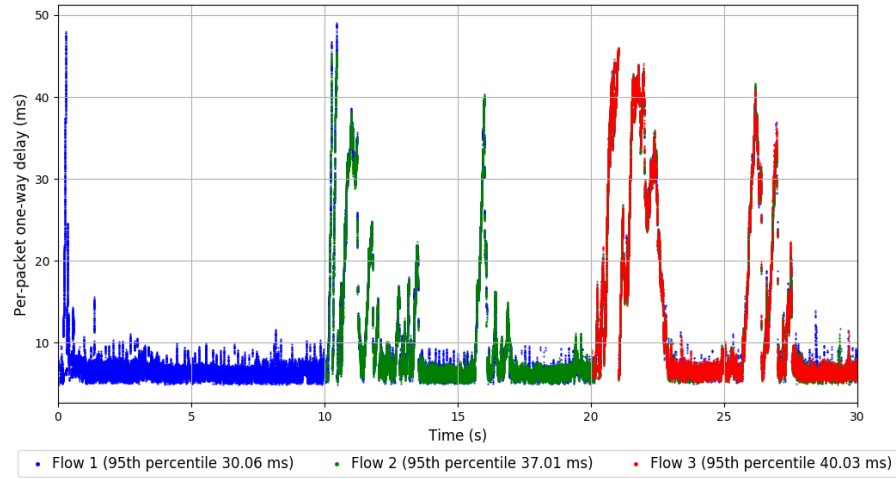
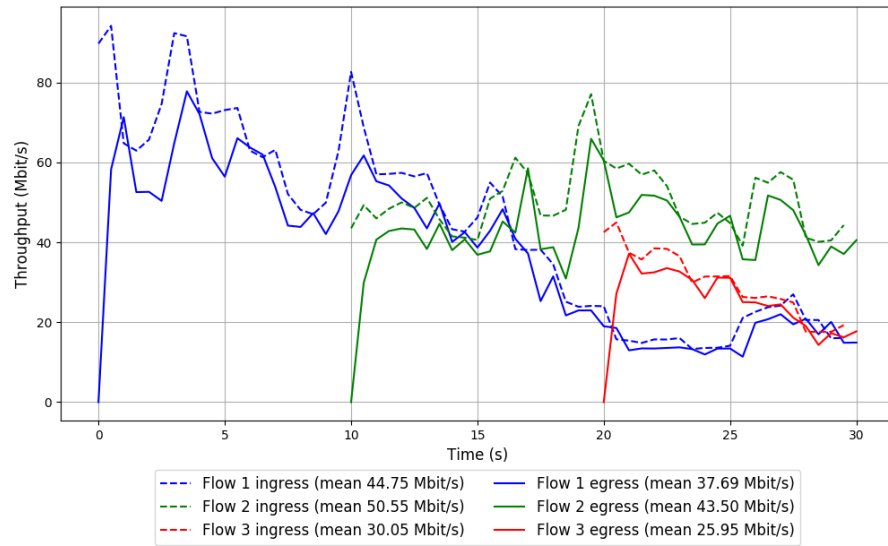


Run 4: Statistics of TCP BBR

Start at: 2018-12-02 06:04:18
End at: 2018-12-02 06:04:48
Local clock offset: 2.588 ms
Remote clock offset: -2.069 ms

Below is generated by plot.py at 2018-12-02 06:39:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.30 Mbit/s
95th percentile per-packet one-way delay: 35.200 ms
Loss rate: 14.83%
-- Flow 1:
Average throughput: 37.69 Mbit/s
95th percentile per-packet one-way delay: 30.059 ms
Loss rate: 15.78%
-- Flow 2:
Average throughput: 43.50 Mbit/s
95th percentile per-packet one-way delay: 37.012 ms
Loss rate: 13.94%
-- Flow 3:
Average throughput: 25.95 Mbit/s
95th percentile per-packet one-way delay: 40.028 ms
Loss rate: 13.62%

Run 4: Report of TCP BBR — Data Link

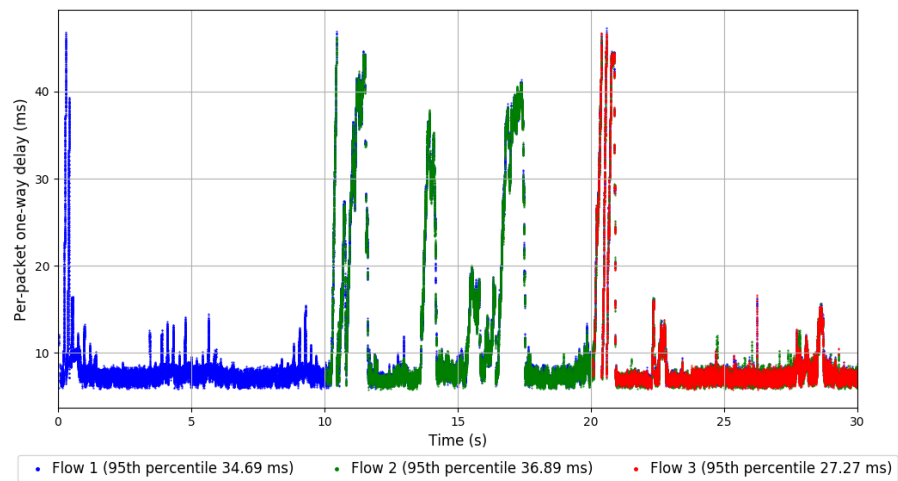
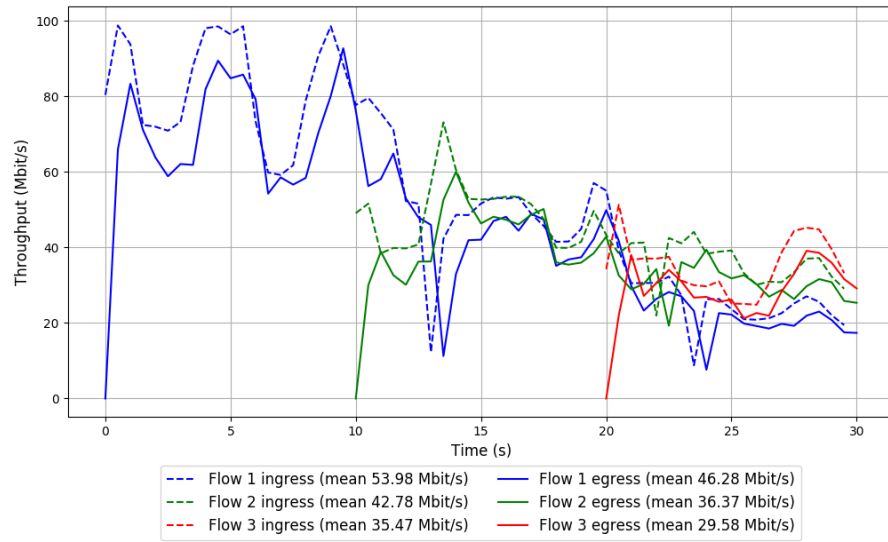


Run 5: Statistics of TCP BBR

Start at: 2018-12-02 06:27:17
End at: 2018-12-02 06:27:47
Local clock offset: 1.842 ms
Remote clock offset: -2.385 ms

Below is generated by plot.py at 2018-12-02 06:39:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.33 Mbit/s
95th percentile per-packet one-way delay: 35.613 ms
Loss rate: 14.77%
-- Flow 1:
Average throughput: 46.28 Mbit/s
95th percentile per-packet one-way delay: 34.687 ms
Loss rate: 14.26%
-- Flow 2:
Average throughput: 36.37 Mbit/s
95th percentile per-packet one-way delay: 36.894 ms
Loss rate: 14.98%
-- Flow 3:
Average throughput: 29.58 Mbit/s
95th percentile per-packet one-way delay: 27.272 ms
Loss rate: 16.62%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-12-02 04:44:37

End at: 2018-12-02 04:45:07

Local clock offset: -0.574 ms

Remote clock offset: 1.761 ms

Below is generated by plot.py at 2018-12-02 06:39:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.34 Mbit/s

95th percentile per-packet one-way delay: 14.976 ms

Loss rate: 53.14%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 11.420 ms

Loss rate: 97.24%

-- Flow 2:

Average throughput: 9.66 Mbit/s

95th percentile per-packet one-way delay: 15.148 ms

Loss rate: 48.30%

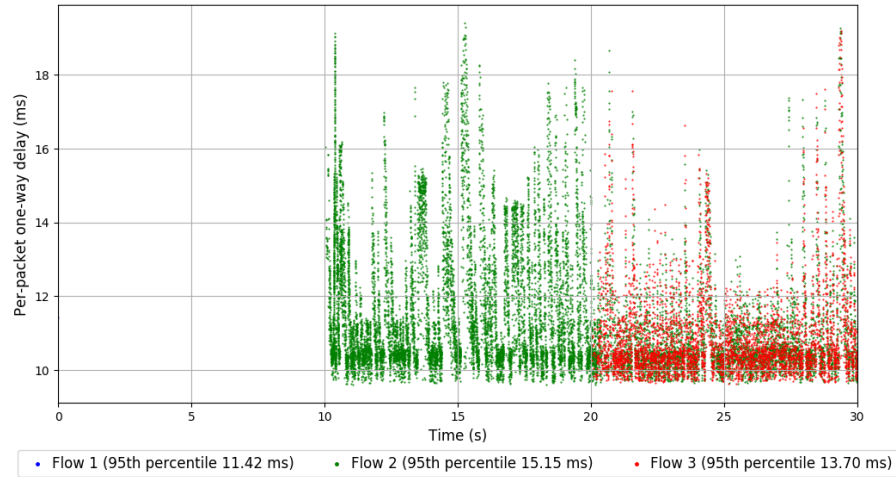
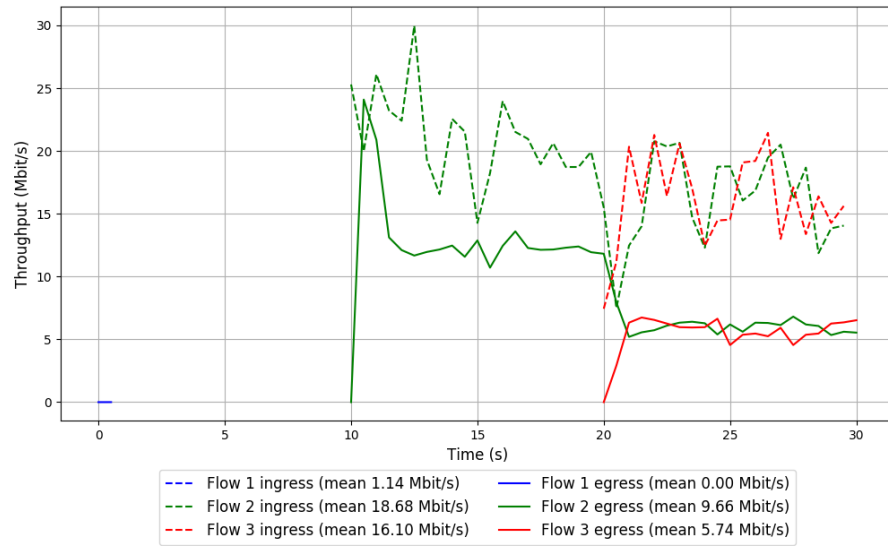
-- Flow 3:

Average throughput: 5.74 Mbit/s

95th percentile per-packet one-way delay: 13.702 ms

Loss rate: 64.38%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-12-02 05:07:36

End at: 2018-12-02 05:08:06

Local clock offset: 1.059 ms

Remote clock offset: -1.74 ms

Below is generated by plot.py at 2018-12-02 06:39:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.41 Mbit/s

95th percentile per-packet one-way delay: 10.702 ms

Loss rate: 55.02%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 6.486 ms

Loss rate: 98.33%

-- Flow 2:

Average throughput: 9.58 Mbit/s

95th percentile per-packet one-way delay: 11.336 ms

Loss rate: 50.51%

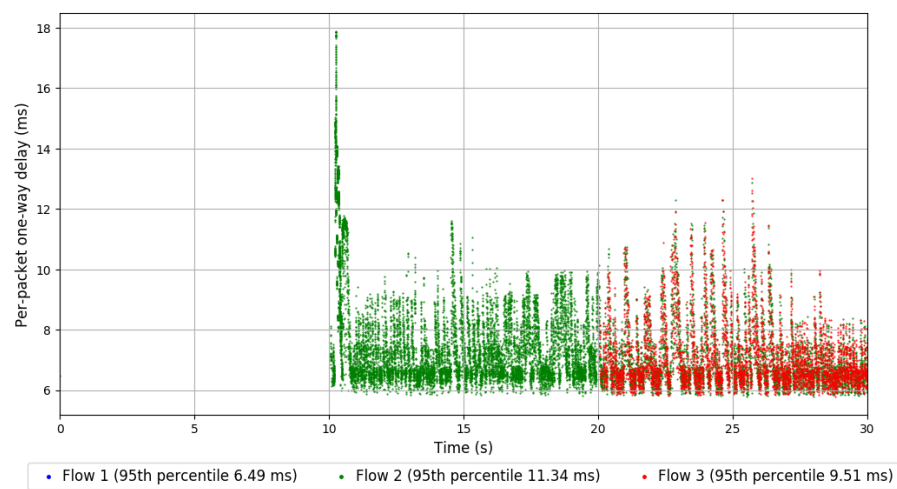
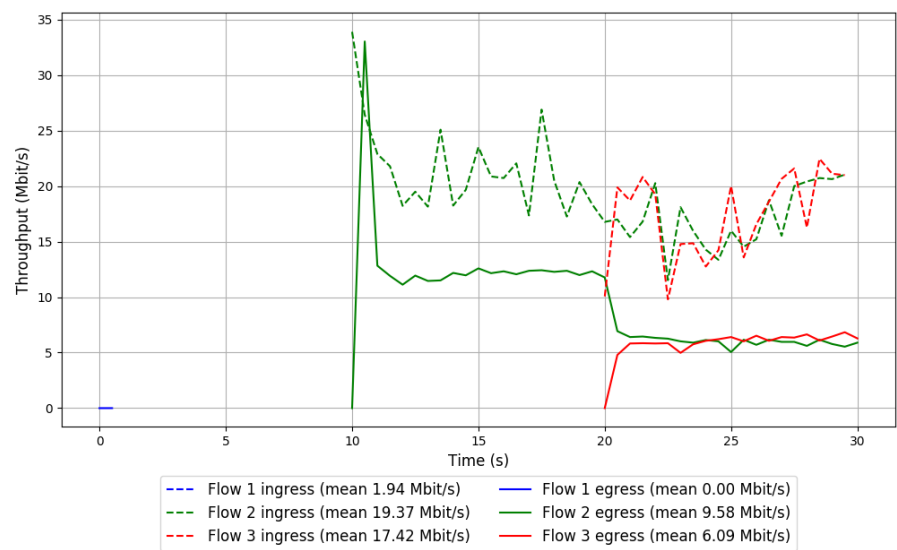
-- Flow 3:

Average throughput: 6.09 Mbit/s

95th percentile per-packet one-way delay: 9.505 ms

Loss rate: 65.06%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-12-02 05:30:07

End at: 2018-12-02 05:30:37

Local clock offset: 3.188 ms

Remote clock offset: -3.66 ms

Below is generated by plot.py at 2018-12-02 06:39:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.97 Mbit/s

95th percentile per-packet one-way delay: 5.206 ms

Loss rate: 53.69%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 4.291 ms

Loss rate: 98.60%

-- Flow 2:

Average throughput: 10.20 Mbit/s

95th percentile per-packet one-way delay: 5.132 ms

Loss rate: 51.35%

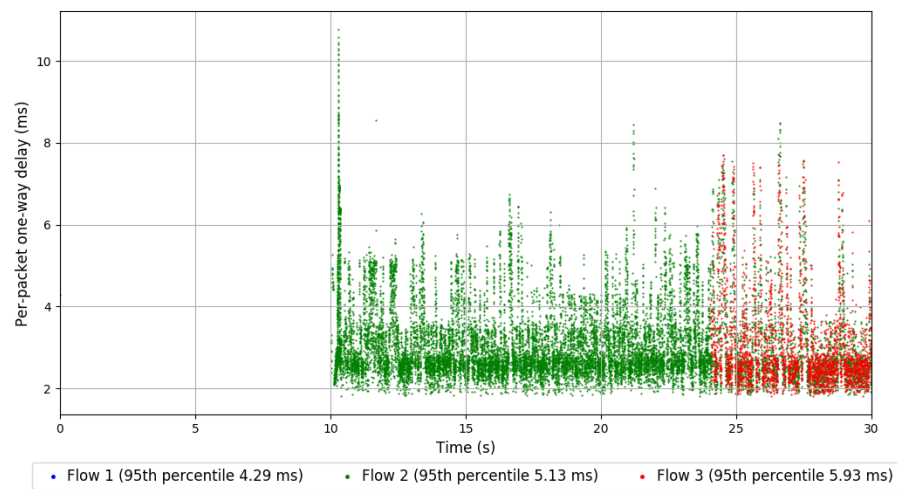
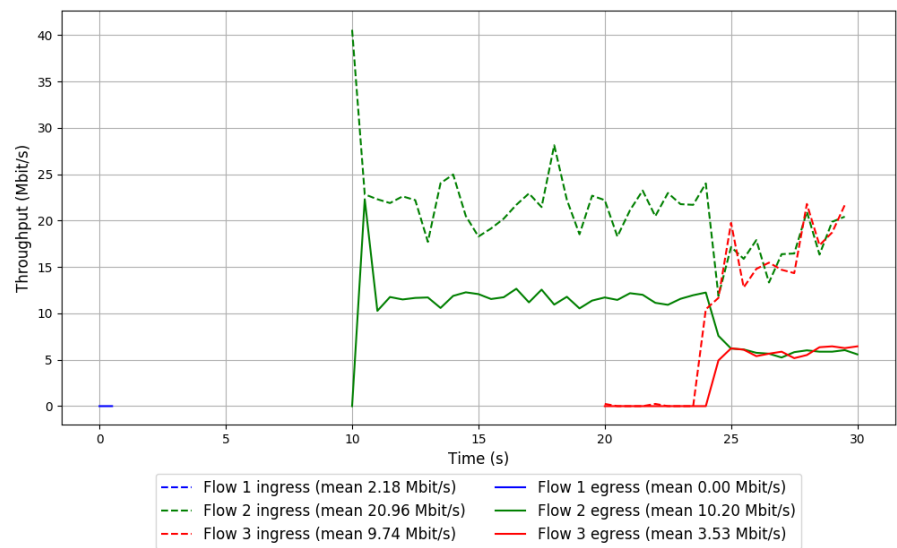
-- Flow 3:

Average throughput: 3.53 Mbit/s

95th percentile per-packet one-way delay: 5.935 ms

Loss rate: 63.73%

Run 3: Report of Copa — Data Link

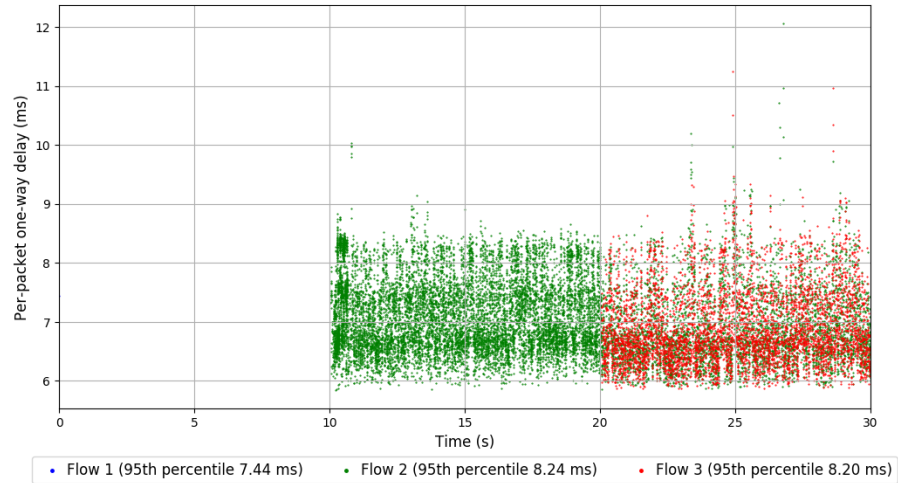
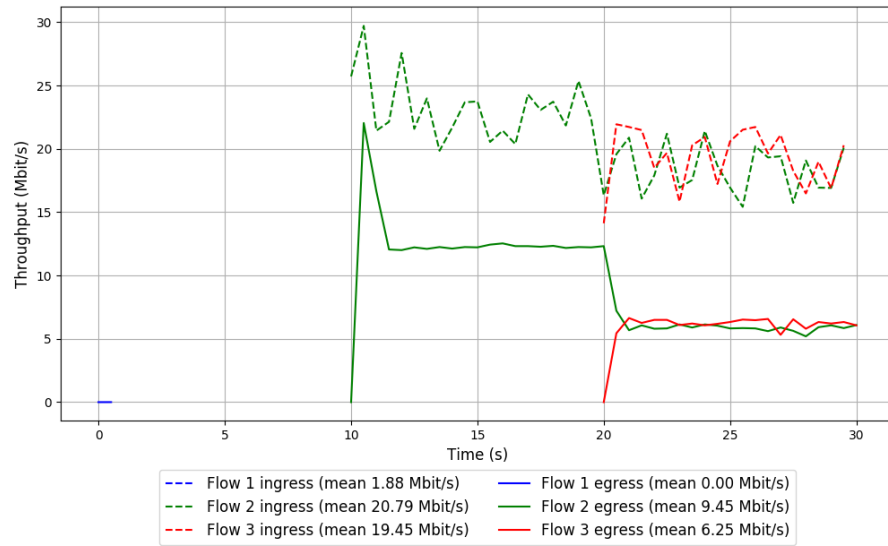


Run 4: Statistics of Copa

Start at: 2018-12-02 05:52:59
End at: 2018-12-02 05:53:29
Local clock offset: 1.371 ms
Remote clock offset: -1.802 ms

Below is generated by plot.py at 2018-12-02 06:39:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.37 Mbit/s
95th percentile per-packet one-way delay: 8.226 ms
Loss rate: 58.79%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 7.438 ms
Loss rate: 98.33%
-- Flow 2:
Average throughput: 9.45 Mbit/s
95th percentile per-packet one-way delay: 8.237 ms
Loss rate: 54.55%
-- Flow 3:
Average throughput: 6.25 Mbit/s
95th percentile per-packet one-way delay: 8.198 ms
Loss rate: 67.89%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-12-02 06:16:36

End at: 2018-12-02 06:17:06

Local clock offset: 1.628 ms

Remote clock offset: -1.65 ms

Below is generated by plot.py at 2018-12-02 06:39:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.42 Mbit/s

95th percentile per-packet one-way delay: 9.947 ms

Loss rate: 56.42%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 9.813 ms

Loss rate: 98.33%

-- Flow 2:

Average throughput: 9.54 Mbit/s

95th percentile per-packet one-way delay: 10.009 ms

Loss rate: 52.91%

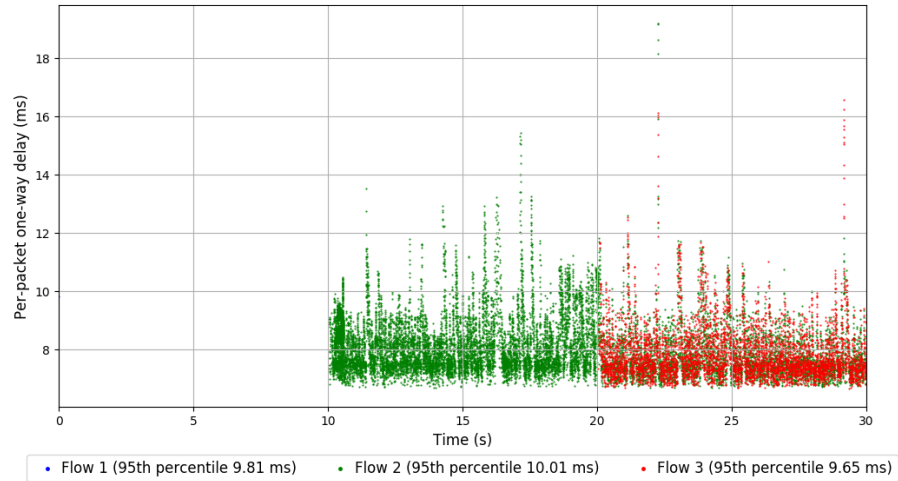
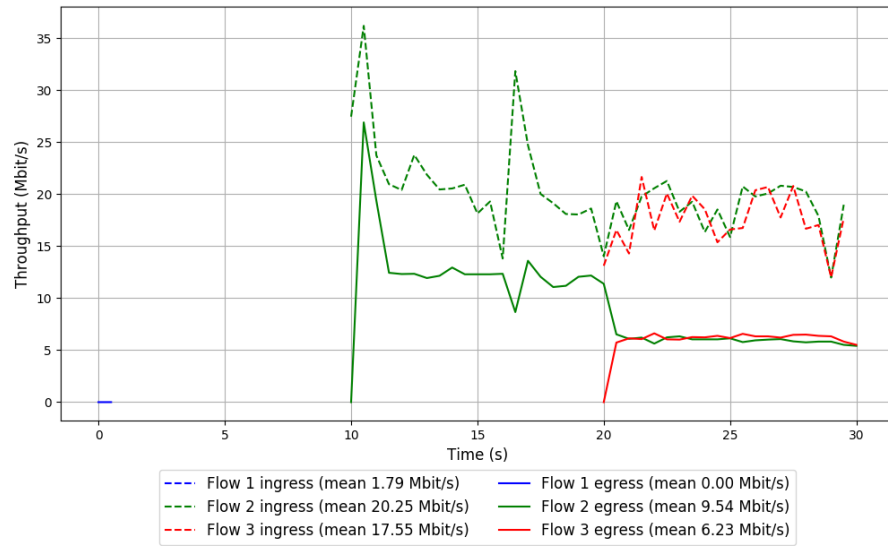
-- Flow 3:

Average throughput: 6.23 Mbit/s

95th percentile per-packet one-way delay: 9.648 ms

Loss rate: 64.52%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-12-02 04:51:51

End at: 2018-12-02 04:52:21

Local clock offset: 1.301 ms

Remote clock offset: 0.432 ms

Below is generated by plot.py at 2018-12-02 06:39:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.21 Mbit/s

95th percentile per-packet one-way delay: 10.672 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 18.20 Mbit/s

95th percentile per-packet one-way delay: 10.320 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 14.89 Mbit/s

95th percentile per-packet one-way delay: 11.573 ms

Loss rate: 0.24%

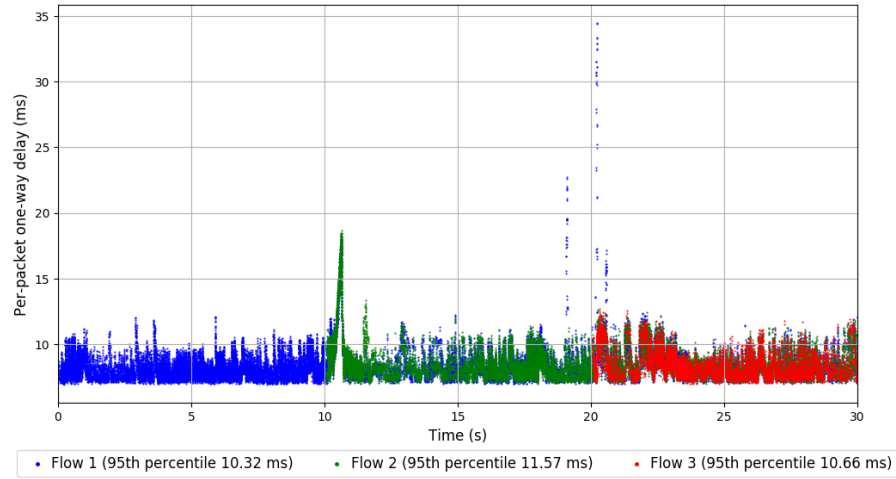
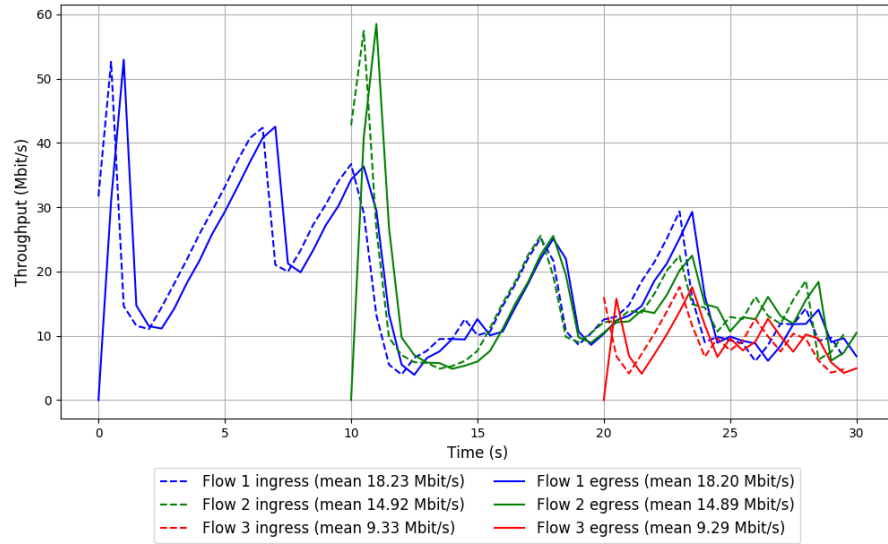
-- Flow 3:

Average throughput: 9.29 Mbit/s

95th percentile per-packet one-way delay: 10.659 ms

Loss rate: 0.45%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-12-02 05:14:44

End at: 2018-12-02 05:15:14

Local clock offset: 1.697 ms

Remote clock offset: -2.53 ms

Below is generated by plot.py at 2018-12-02 06:39:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.83 Mbit/s

95th percentile per-packet one-way delay: 8.169 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 12.75 Mbit/s

95th percentile per-packet one-way delay: 8.004 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 7.988 ms

Loss rate: 0.86%

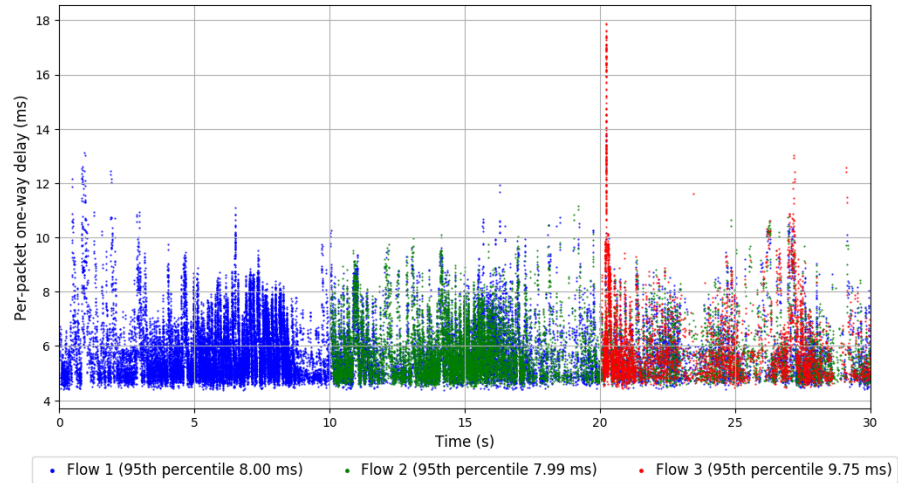
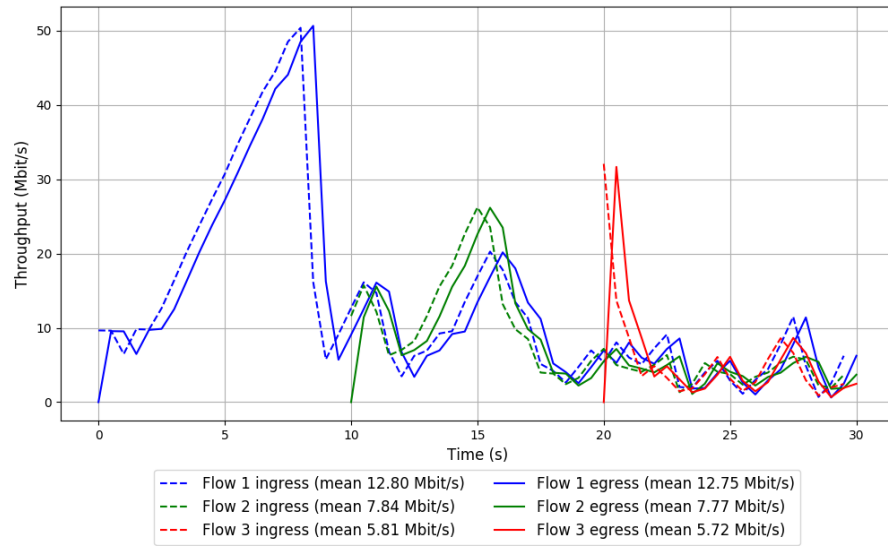
-- Flow 3:

Average throughput: 5.72 Mbit/s

95th percentile per-packet one-way delay: 9.753 ms

Loss rate: 1.47%

Run 2: Report of TCP Cubic — Data Link

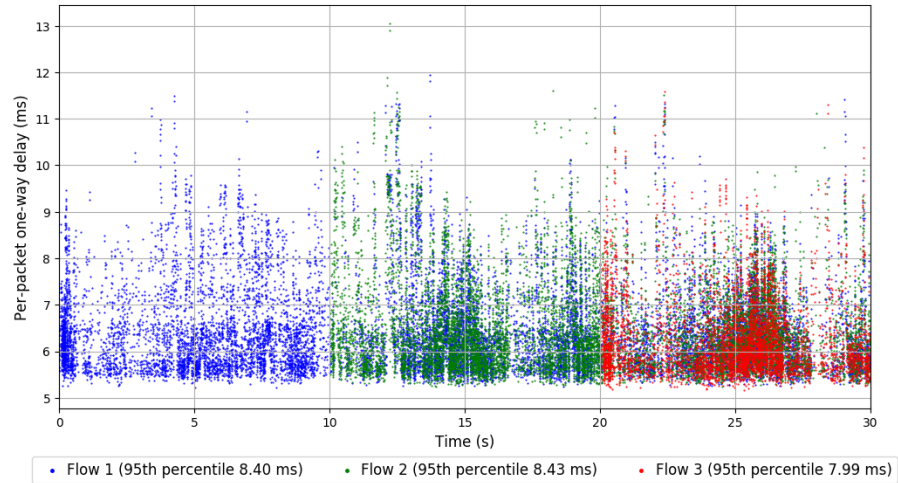
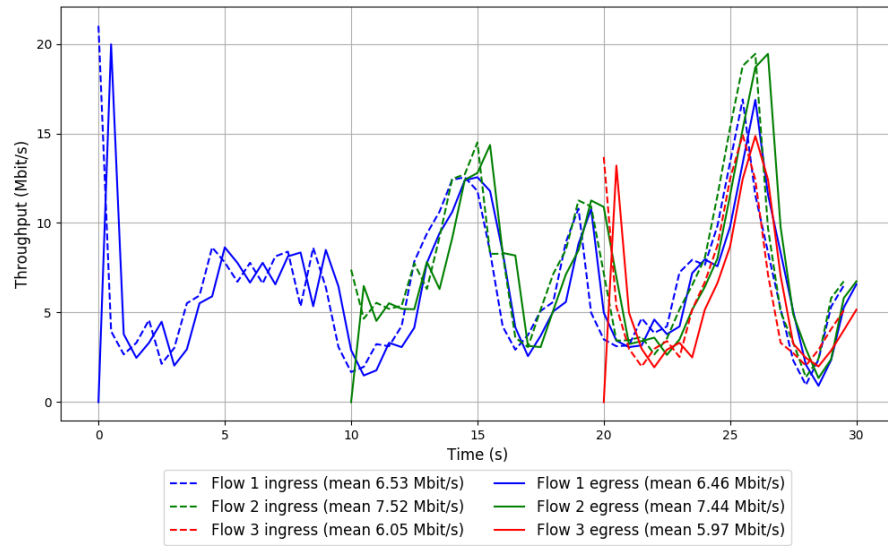


Run 3: Statistics of TCP Cubic

Start at: 2018-12-02 05:37:16
End at: 2018-12-02 05:37:46
Local clock offset: 1.863 ms
Remote clock offset: -1.585 ms

Below is generated by plot.py at 2018-12-02 06:39:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.39 Mbit/s
95th percentile per-packet one-way delay: 8.355 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 6.46 Mbit/s
95th percentile per-packet one-way delay: 8.400 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 7.44 Mbit/s
95th percentile per-packet one-way delay: 8.428 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 5.97 Mbit/s
95th percentile per-packet one-way delay: 7.991 ms
Loss rate: 1.39%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-12-02 06:00:44

End at: 2018-12-02 06:01:14

Local clock offset: 1.366 ms

Remote clock offset: 2.032 ms

Below is generated by plot.py at 2018-12-02 06:39:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.62 Mbit/s

95th percentile per-packet one-way delay: 14.810 ms

Loss rate: 2.03%

-- Flow 1:

Average throughput: 5.12 Mbit/s

95th percentile per-packet one-way delay: 16.627 ms

Loss rate: 2.05%

-- Flow 2:

Average throughput: 5.83 Mbit/s

95th percentile per-packet one-way delay: 13.464 ms

Loss rate: 1.69%

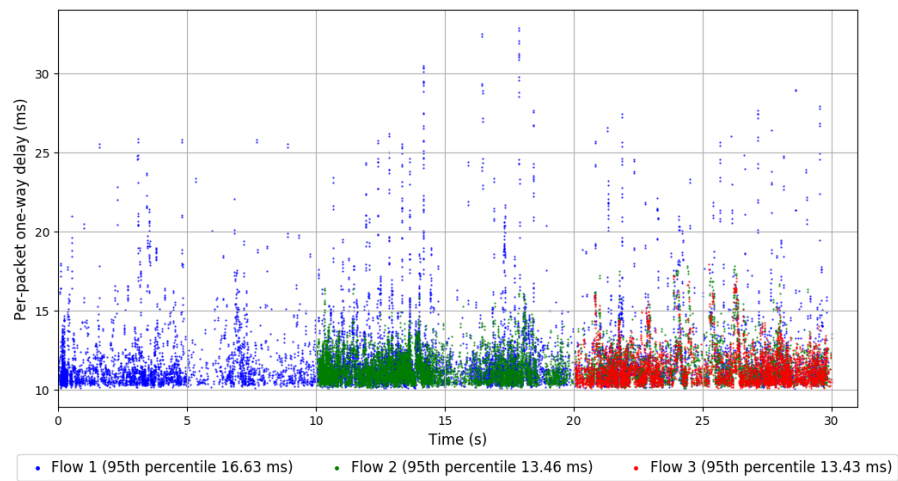
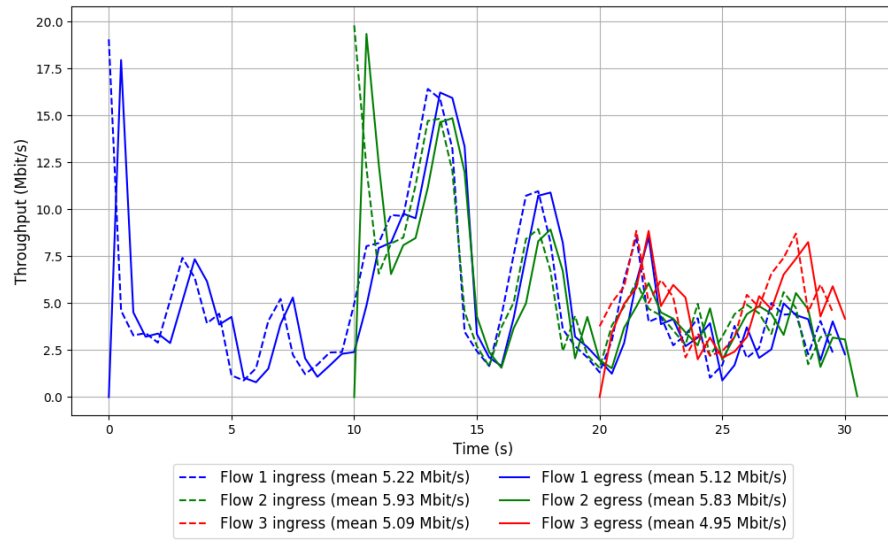
-- Flow 3:

Average throughput: 4.95 Mbit/s

95th percentile per-packet one-way delay: 13.433 ms

Loss rate: 2.77%

Run 4: Report of TCP Cubic — Data Link

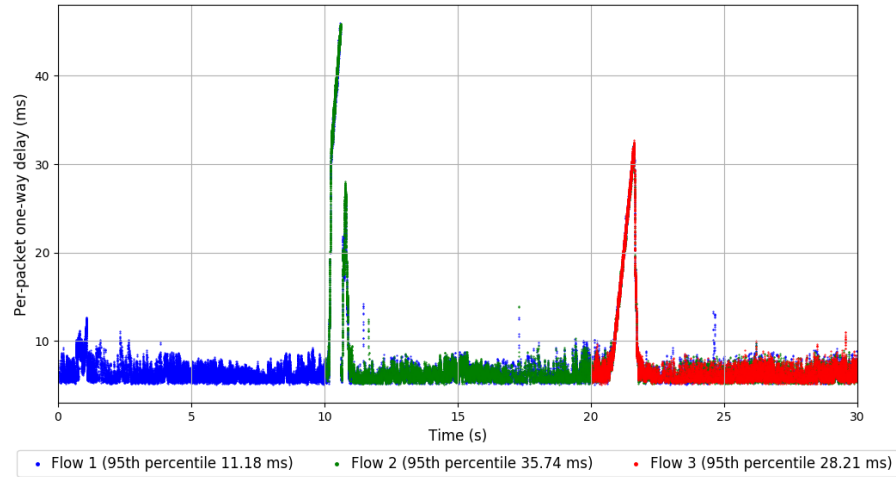
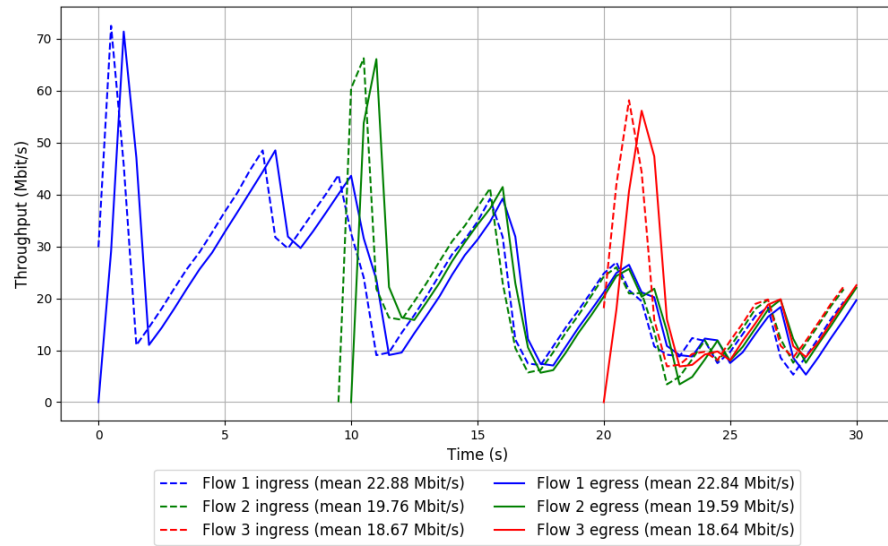


Run 5: Statistics of TCP Cubic

Start at: 2018-12-02 06:23:42
End at: 2018-12-02 06:24:12
Local clock offset: 1.952 ms
Remote clock offset: -2.932 ms

Below is generated by plot.py at 2018-12-02 06:39:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 42.10 Mbit/s
95th percentile per-packet one-way delay: 25.715 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 22.84 Mbit/s
95th percentile per-packet one-way delay: 11.183 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 19.59 Mbit/s
95th percentile per-packet one-way delay: 35.739 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 18.64 Mbit/s
95th percentile per-packet one-way delay: 28.215 ms
Loss rate: 0.14%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-12-02 04:48:08

End at: 2018-12-02 04:48:38

Local clock offset: -0.341 ms

Remote clock offset: 0.302 ms

Below is generated by plot.py at 2018-12-02 06:40:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.66 Mbit/s

95th percentile per-packet one-way delay: 29.976 ms

Loss rate: 29.88%

-- Flow 1:

Average throughput: 53.98 Mbit/s

95th percentile per-packet one-way delay: 29.092 ms

Loss rate: 23.14%

-- Flow 2:

Average throughput: 39.92 Mbit/s

95th percentile per-packet one-way delay: 31.504 ms

Loss rate: 34.91%

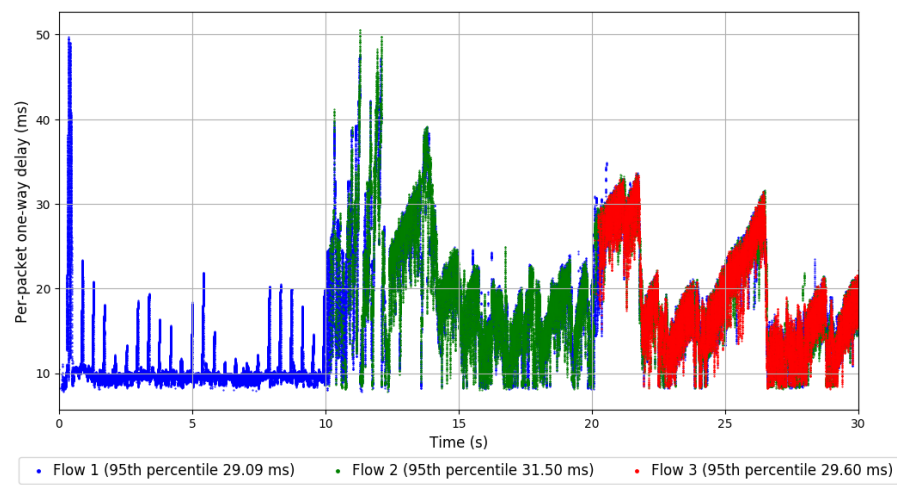
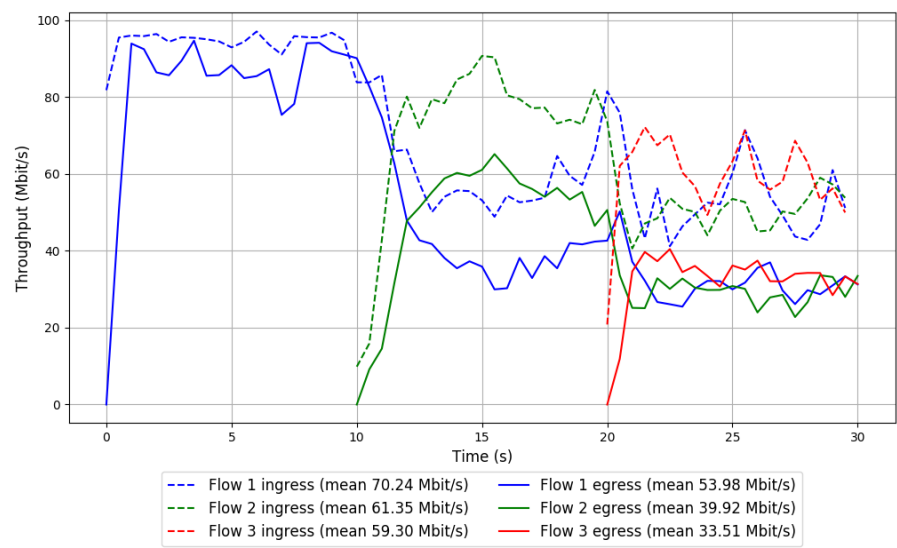
-- Flow 3:

Average throughput: 33.51 Mbit/s

95th percentile per-packet one-way delay: 29.604 ms

Loss rate: 43.48%

Run 1: Report of FillP — Data Link

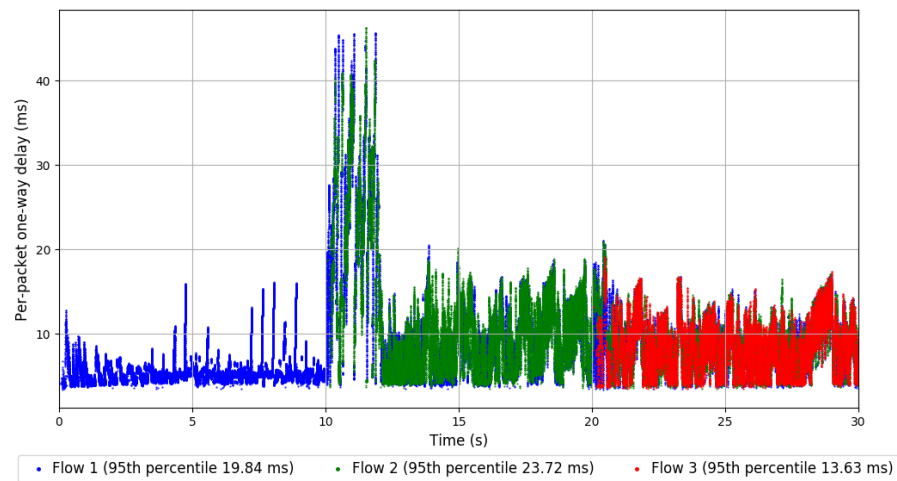
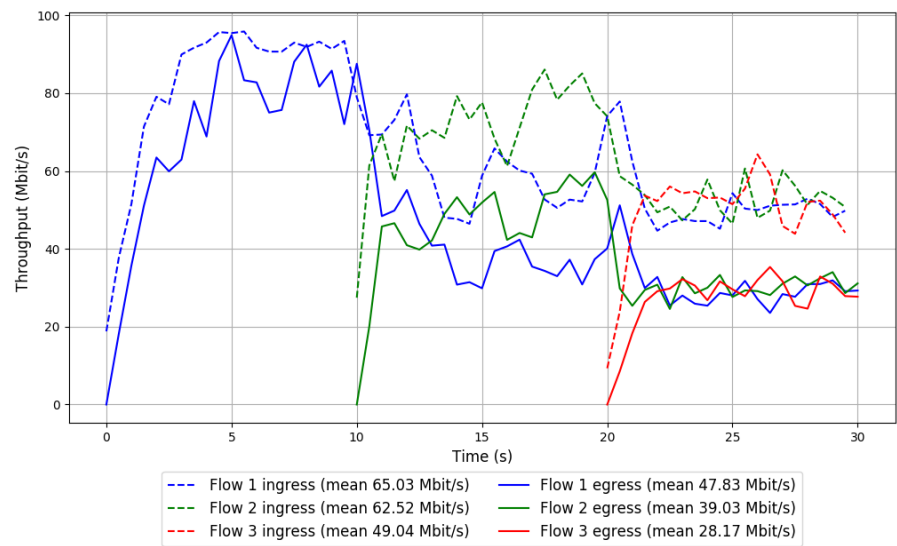


Run 2: Statistics of FillP

Start at: 2018-12-02 05:11:05
End at: 2018-12-02 05:11:35
Local clock offset: 2.748 ms
Remote clock offset: -2.332 ms

Below is generated by plot.py at 2018-12-02 06:40:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.13 Mbit/s
95th percentile per-packet one-way delay: 19.783 ms
Loss rate: 32.35%
-- Flow 1:
Average throughput: 47.83 Mbit/s
95th percentile per-packet one-way delay: 19.840 ms
Loss rate: 26.46%
-- Flow 2:
Average throughput: 39.03 Mbit/s
95th percentile per-packet one-way delay: 23.721 ms
Loss rate: 37.56%
-- Flow 3:
Average throughput: 28.17 Mbit/s
95th percentile per-packet one-way delay: 13.629 ms
Loss rate: 42.58%

Run 2: Report of FillP — Data Link

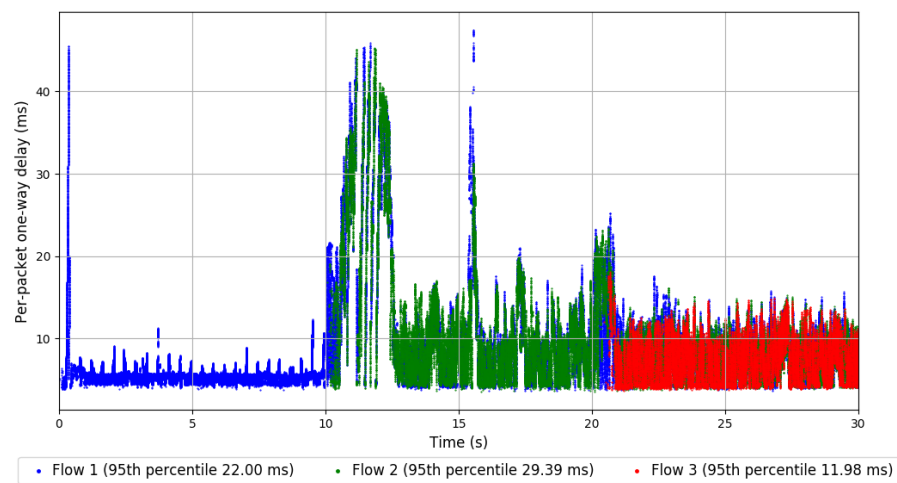
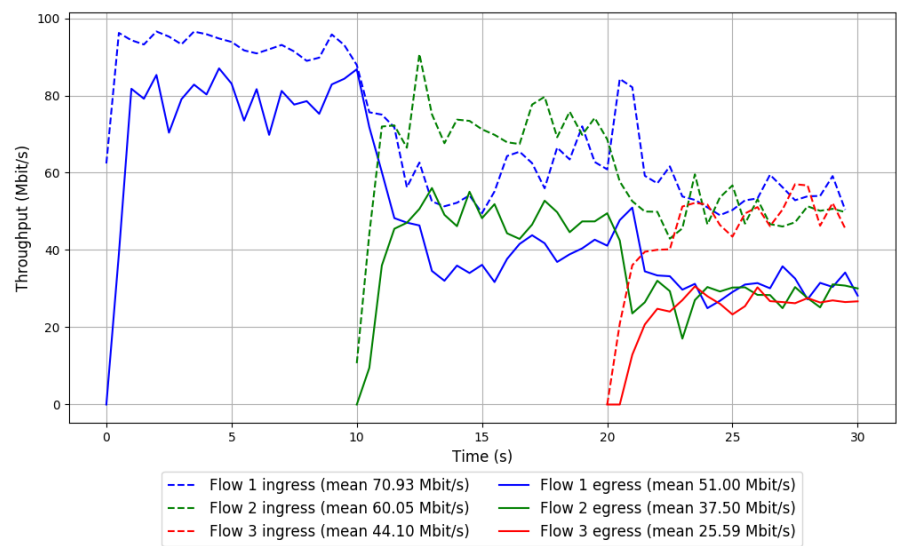


Run 3: Statistics of FillP

Start at: 2018-12-02 05:33:35
End at: 2018-12-02 05:34:05
Local clock offset: 2.465 ms
Remote clock offset: -2.477 ms

Below is generated by plot.py at 2018-12-02 06:40:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.04 Mbit/s
95th percentile per-packet one-way delay: 24.098 ms
Loss rate: 33.01%
-- Flow 1:
Average throughput: 51.00 Mbit/s
95th percentile per-packet one-way delay: 21.998 ms
Loss rate: 28.09%
-- Flow 2:
Average throughput: 37.50 Mbit/s
95th percentile per-packet one-way delay: 29.395 ms
Loss rate: 37.55%
-- Flow 3:
Average throughput: 25.59 Mbit/s
95th percentile per-packet one-way delay: 11.978 ms
Loss rate: 44.47%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-12-02 05:56:32

End at: 2018-12-02 05:57:02

Local clock offset: 4.795 ms

Remote clock offset: 0.478 ms

Below is generated by plot.py at 2018-12-02 06:40:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.95 Mbit/s

95th percentile per-packet one-way delay: 26.126 ms

Loss rate: 31.51%

-- Flow 1:

Average throughput: 50.43 Mbit/s

95th percentile per-packet one-way delay: 24.672 ms

Loss rate: 24.95%

-- Flow 2:

Average throughput: 38.72 Mbit/s

95th percentile per-packet one-way delay: 28.369 ms

Loss rate: 36.82%

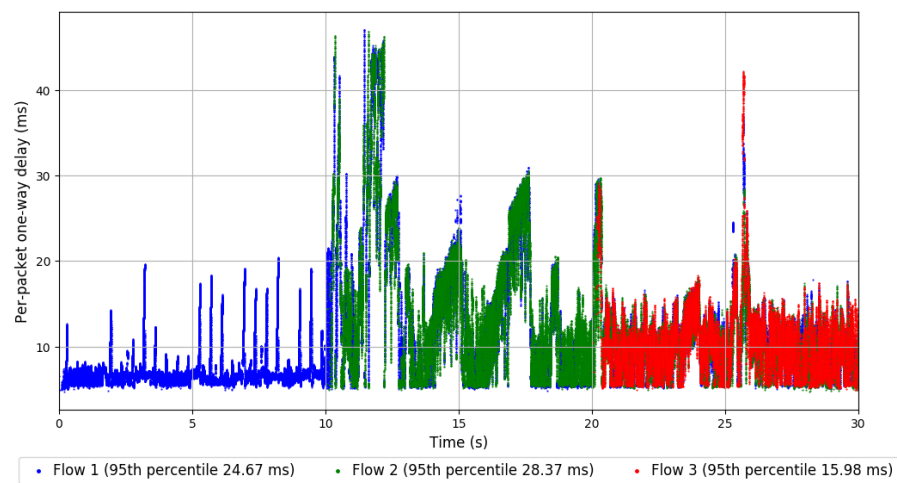
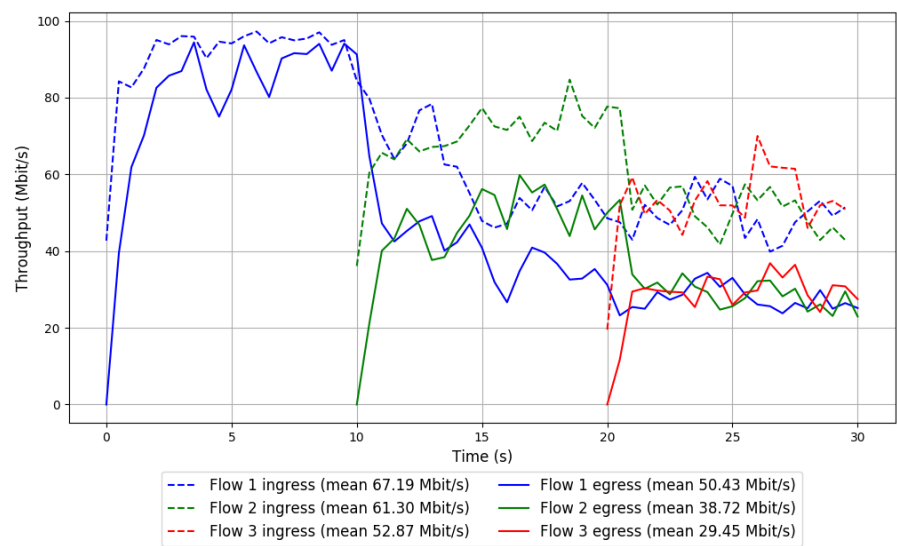
-- Flow 3:

Average throughput: 29.45 Mbit/s

95th percentile per-packet one-way delay: 15.983 ms

Loss rate: 44.31%

Run 4: Report of FillP — Data Link

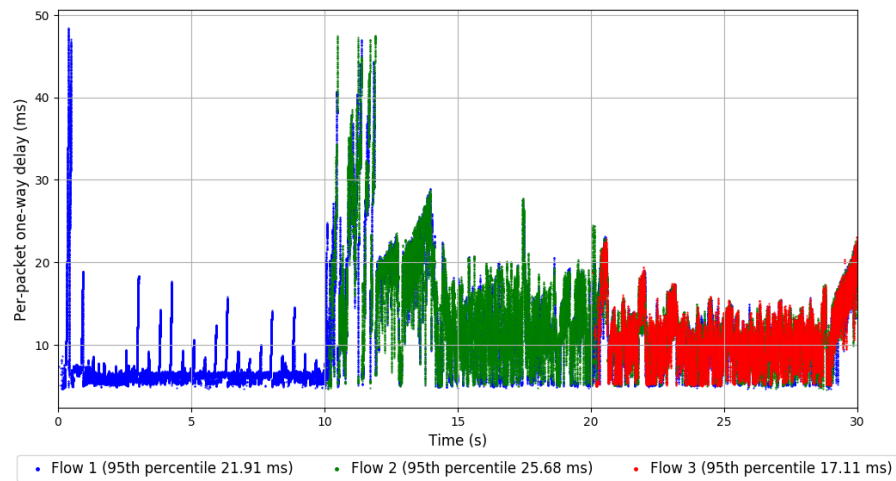
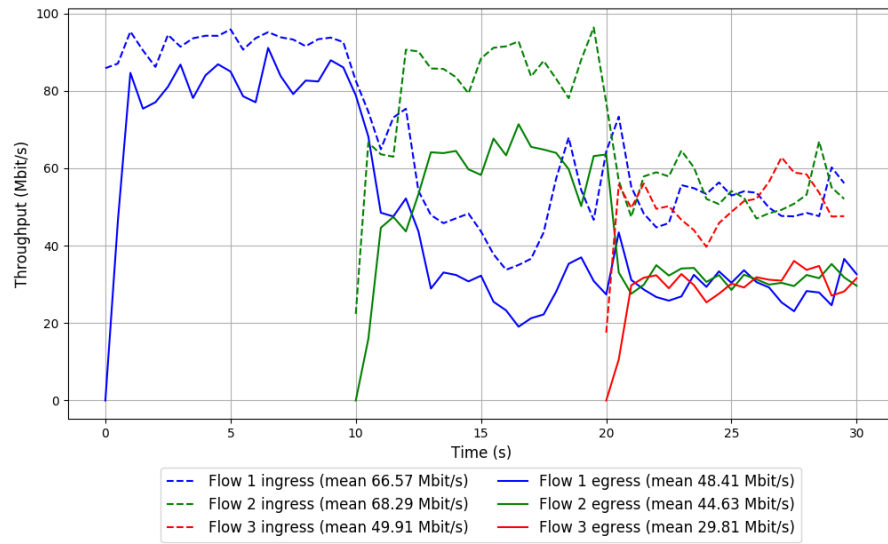


Run 5: Statistics of FillP

Start at: 2018-12-02 06:20:05
End at: 2018-12-02 06:20:35
Local clock offset: 2.16 ms
Remote clock offset: -3.081 ms

Below is generated by plot.py at 2018-12-02 06:40:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.99 Mbit/s
95th percentile per-packet one-way delay: 22.601 ms
Loss rate: 31.52%
-- Flow 1:
Average throughput: 48.41 Mbit/s
95th percentile per-packet one-way delay: 21.905 ms
Loss rate: 27.24%
-- Flow 2:
Average throughput: 44.63 Mbit/s
95th percentile per-packet one-way delay: 25.680 ms
Loss rate: 34.62%
-- Flow 3:
Average throughput: 29.81 Mbit/s
95th percentile per-packet one-way delay: 17.108 ms
Loss rate: 40.20%

Run 5: Report of FillP — Data Link

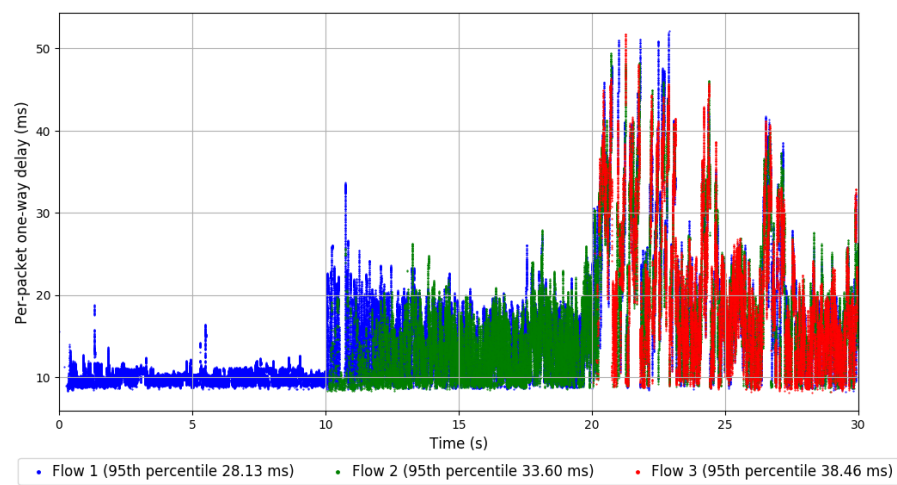
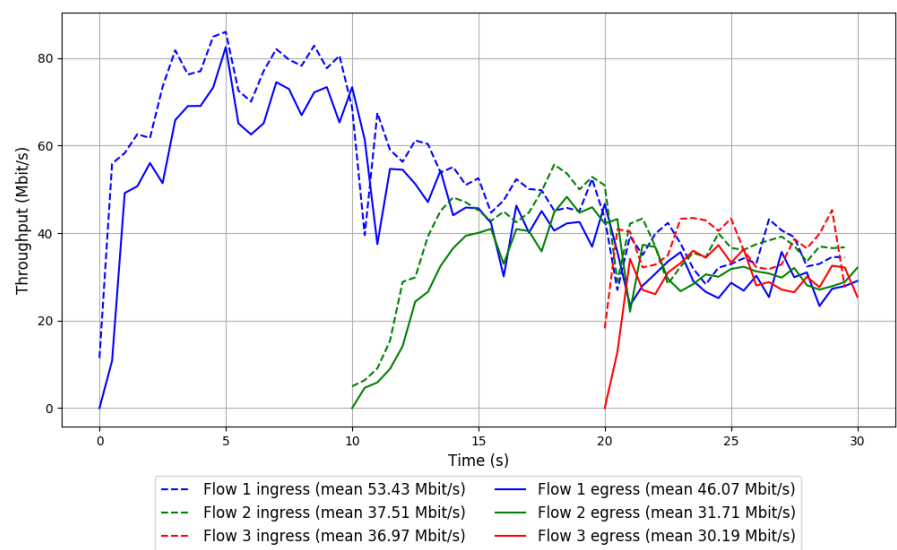



```
Run 1: Statistics of FillP-Sheep

Start at: 2018-12-02 04:45:45
End at: 2018-12-02 04:46:15
Local clock offset: -0.928 ms
Remote clock offset: 0.186 ms

# Below is generated by plot.py at 2018-12-02 06:40:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.17 Mbit/s
95th percentile per-packet one-way delay: 32.831 ms
Loss rate: 14.83%
-- Flow 1:
Average throughput: 46.07 Mbit/s
95th percentile per-packet one-way delay: 28.131 ms
Loss rate: 13.77%
-- Flow 2:
Average throughput: 31.71 Mbit/s
95th percentile per-packet one-way delay: 33.602 ms
Loss rate: 15.42%
-- Flow 3:
Average throughput: 30.19 Mbit/s
95th percentile per-packet one-way delay: 38.464 ms
Loss rate: 18.28%
```

Run 1: Report of FillP-Sheep — Data Link

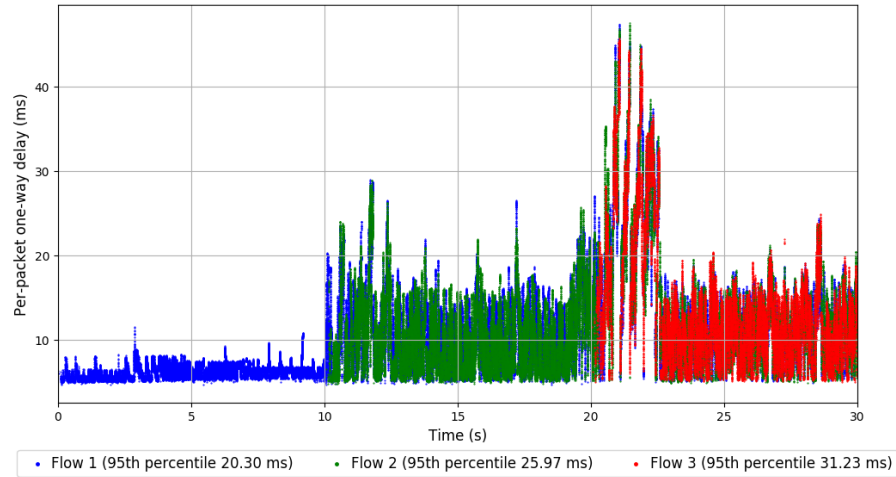
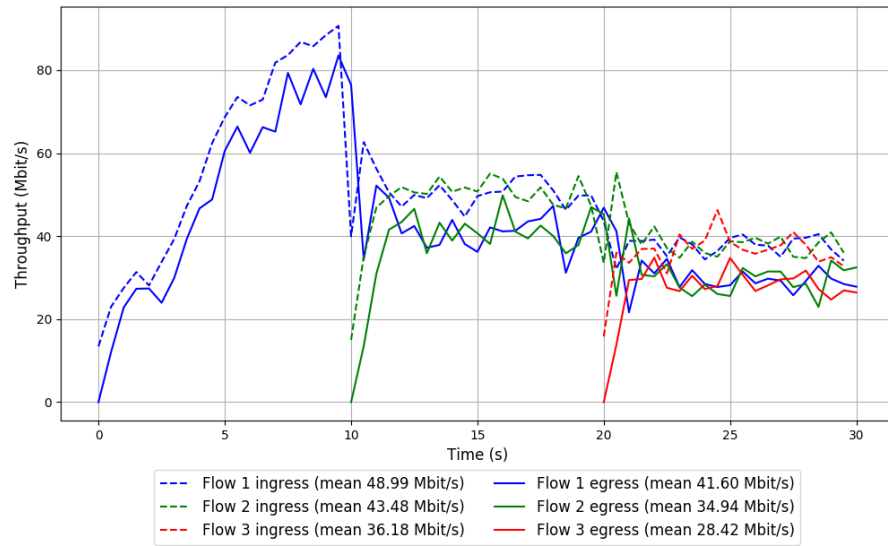


Run 2: Statistics of FillP-Sheep

Start at: 2018-12-02 05:08:44
End at: 2018-12-02 05:09:14
Local clock offset: 0.724 ms
Remote clock offset: -2.962 ms

Below is generated by plot.py at 2018-12-02 06:40:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.25 Mbit/s
95th percentile per-packet one-way delay: 24.462 ms
Loss rate: 17.38%
-- Flow 1:
Average throughput: 41.60 Mbit/s
95th percentile per-packet one-way delay: 20.296 ms
Loss rate: 15.07%
-- Flow 2:
Average throughput: 34.94 Mbit/s
95th percentile per-packet one-way delay: 25.974 ms
Loss rate: 19.60%
-- Flow 3:
Average throughput: 28.42 Mbit/s
95th percentile per-packet one-way delay: 31.229 ms
Loss rate: 21.48%

Run 2: Report of FillP-Sheep — Data Link

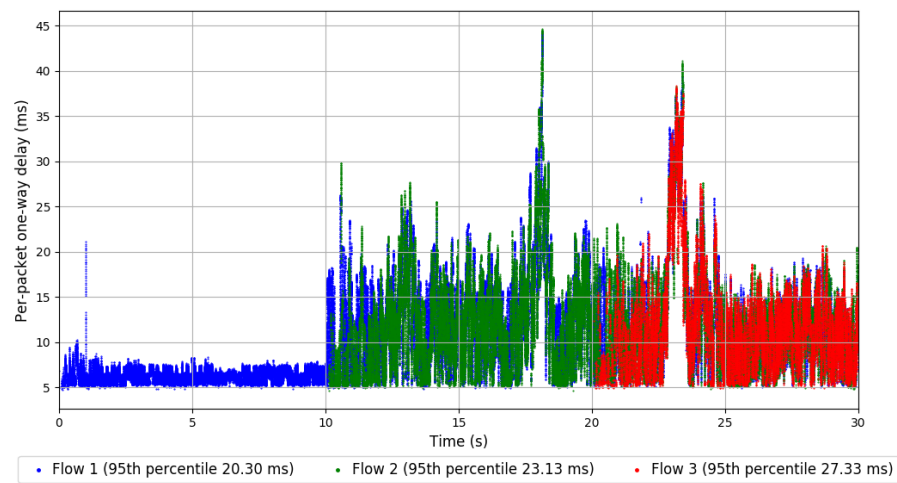
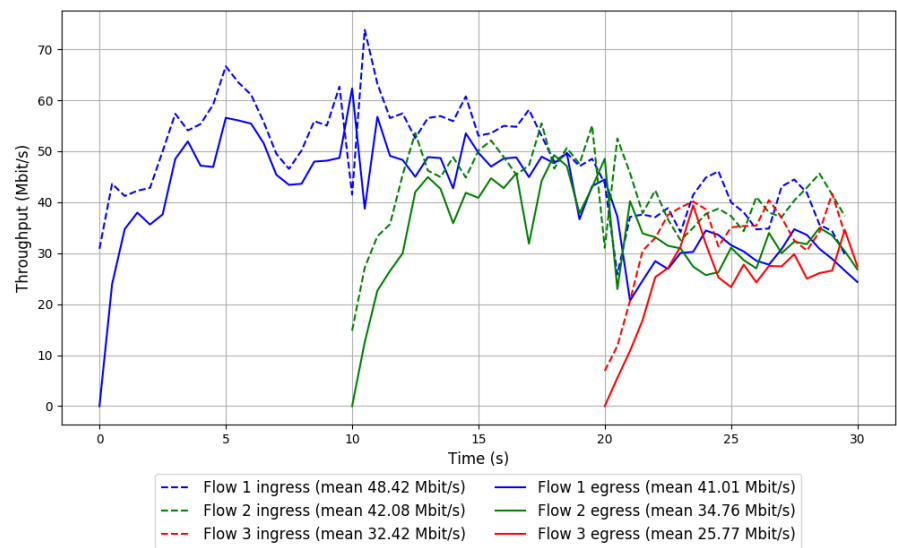


Run 3: Statistics of FillP-Sheep

Start at: 2018-12-02 05:31:16
End at: 2018-12-02 05:31:46
Local clock offset: 0.671 ms
Remote clock offset: -3.151 ms

Below is generated by plot.py at 2018-12-02 06:40:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.68 Mbit/s
95th percentile per-packet one-way delay: 21.928 ms
Loss rate: 16.61%
-- Flow 1:
Average throughput: 41.01 Mbit/s
95th percentile per-packet one-way delay: 20.298 ms
Loss rate: 15.30%
-- Flow 2:
Average throughput: 34.76 Mbit/s
95th percentile per-packet one-way delay: 23.133 ms
Loss rate: 17.39%
-- Flow 3:
Average throughput: 25.77 Mbit/s
95th percentile per-packet one-way delay: 27.331 ms
Loss rate: 20.48%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-12-02 05:54:07

End at: 2018-12-02 05:54:37

Local clock offset: 3.916 ms

Remote clock offset: -2.42 ms

Below is generated by plot.py at 2018-12-02 06:41:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.21 Mbit/s

95th percentile per-packet one-way delay: 25.773 ms

Loss rate: 15.73%

-- Flow 1:

Average throughput: 48.29 Mbit/s

95th percentile per-packet one-way delay: 23.319 ms

Loss rate: 14.44%

-- Flow 2:

Average throughput: 37.03 Mbit/s

95th percentile per-packet one-way delay: 27.486 ms

Loss rate: 14.78%

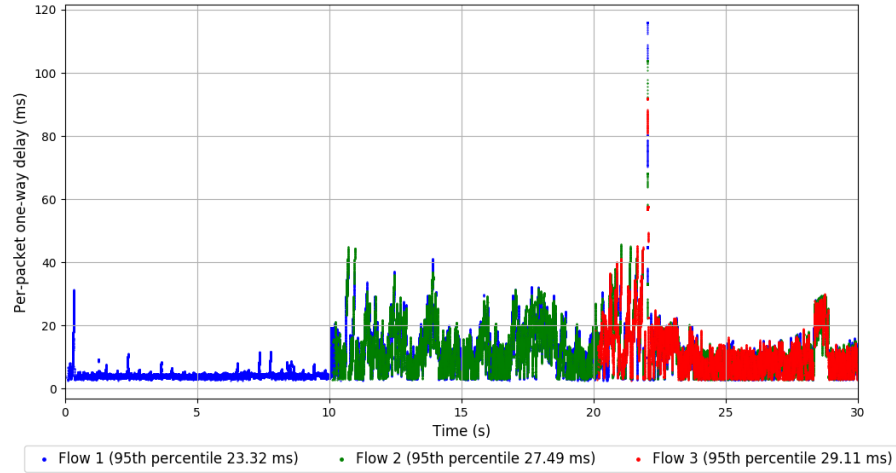
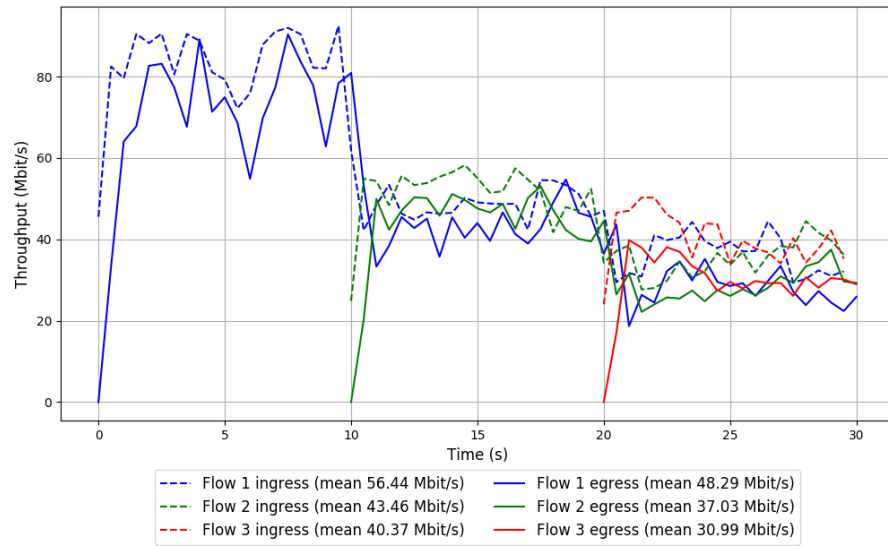
-- Flow 3:

Average throughput: 30.99 Mbit/s

95th percentile per-packet one-way delay: 29.109 ms

Loss rate: 23.24%

Run 4: Report of FillP-Sheep — Data Link

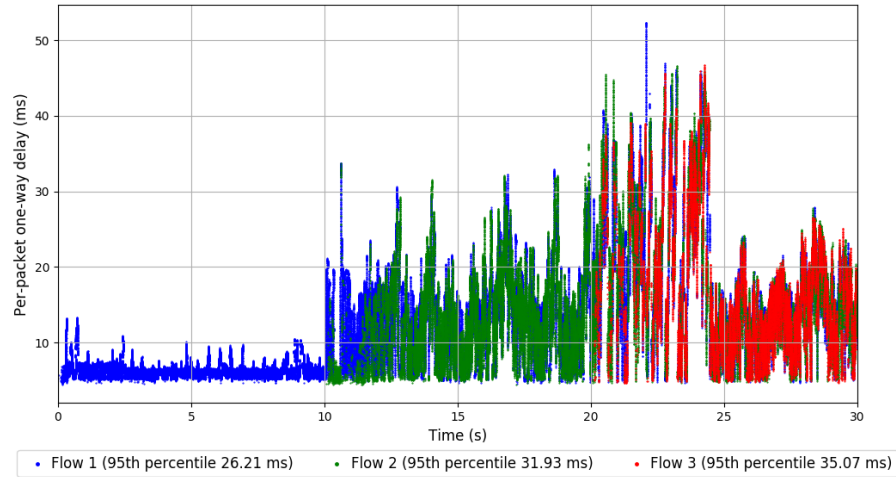
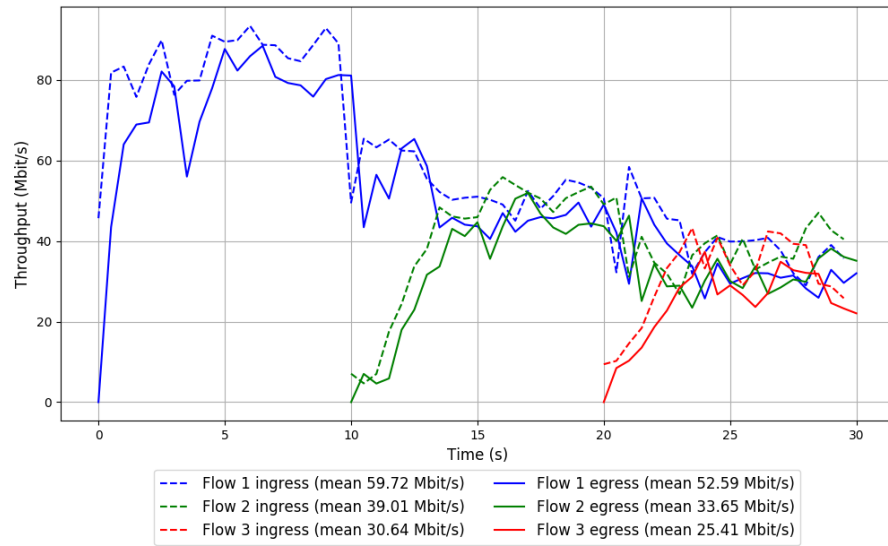


Run 5: Statistics of FillP-Sheep

Start at: 2018-12-02 06:17:45
End at: 2018-12-02 06:18:15
Local clock offset: 3.15 ms
Remote clock offset: -2.097 ms

Below is generated by plot.py at 2018-12-02 06:41:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.39 Mbit/s
95th percentile per-packet one-way delay: 30.011 ms
Loss rate: 12.94%
-- Flow 1:
Average throughput: 52.59 Mbit/s
95th percentile per-packet one-way delay: 26.208 ms
Loss rate: 11.92%
-- Flow 2:
Average throughput: 33.65 Mbit/s
95th percentile per-packet one-way delay: 31.928 ms
Loss rate: 13.70%
-- Flow 3:
Average throughput: 25.41 Mbit/s
95th percentile per-packet one-way delay: 35.070 ms
Loss rate: 17.01%

Run 5: Report of FillP-Sheep — Data Link

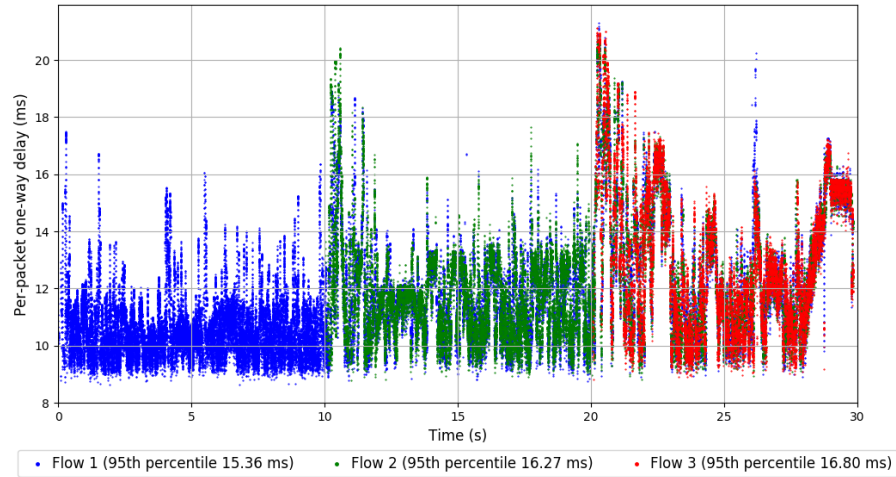
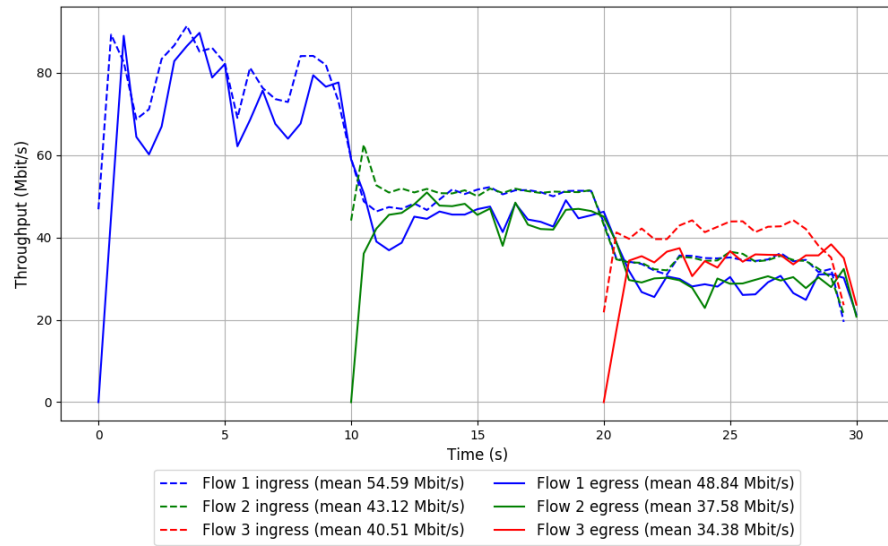


```
Run 1: Statistics of Indigo

Start at: 2018-12-02 04:50:34
End at: 2018-12-02 04:51:04
Local clock offset: 0.773 ms
Remote clock offset: 1.807 ms

# Below is generated by plot.py at 2018-12-02 06:41:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.03 Mbit/s
95th percentile per-packet one-way delay: 15.941 ms
Loss rate: 11.84%
-- Flow 1:
Average throughput: 48.84 Mbit/s
95th percentile per-packet one-way delay: 15.355 ms
Loss rate: 10.52%
-- Flow 2:
Average throughput: 37.58 Mbit/s
95th percentile per-packet one-way delay: 16.266 ms
Loss rate: 12.85%
-- Flow 3:
Average throughput: 34.38 Mbit/s
95th percentile per-packet one-way delay: 16.796 ms
Loss rate: 15.11%
```

Run 1: Report of Indigo — Data Link

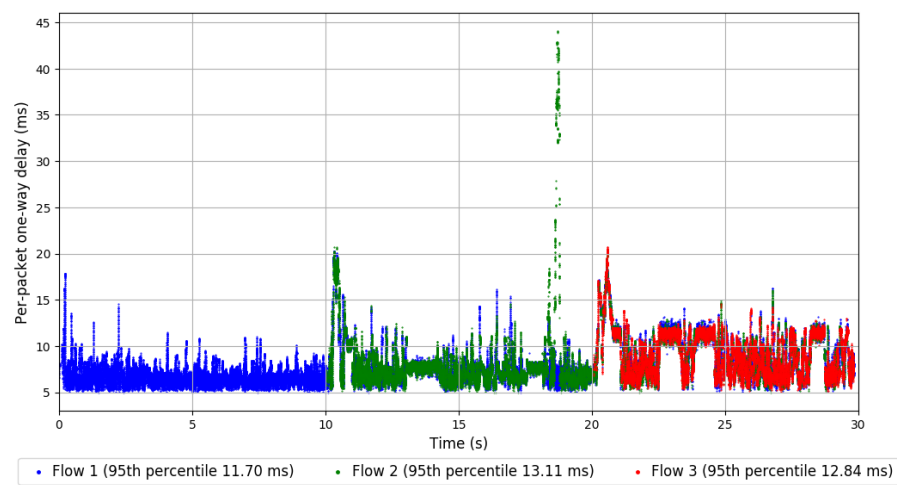
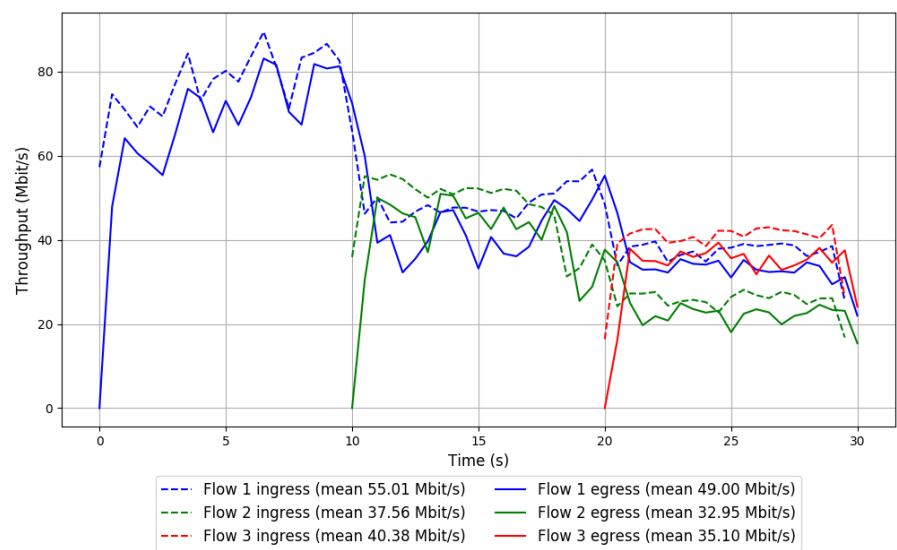


Run 2: Statistics of Indigo

Start at: 2018-12-02 05:13:29
End at: 2018-12-02 05:13:59
Local clock offset: 0.853 ms
Remote clock offset: -2.872 ms

Below is generated by plot.py at 2018-12-02 06:41:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.32 Mbit/s
95th percentile per-packet one-way delay: 11.916 ms
Loss rate: 11.60%
-- Flow 1:
Average throughput: 49.00 Mbit/s
95th percentile per-packet one-way delay: 11.696 ms
Loss rate: 10.93%
-- Flow 2:
Average throughput: 32.95 Mbit/s
95th percentile per-packet one-way delay: 13.111 ms
Loss rate: 12.29%
-- Flow 3:
Average throughput: 35.10 Mbit/s
95th percentile per-packet one-way delay: 12.840 ms
Loss rate: 13.09%

Run 2: Report of Indigo — Data Link

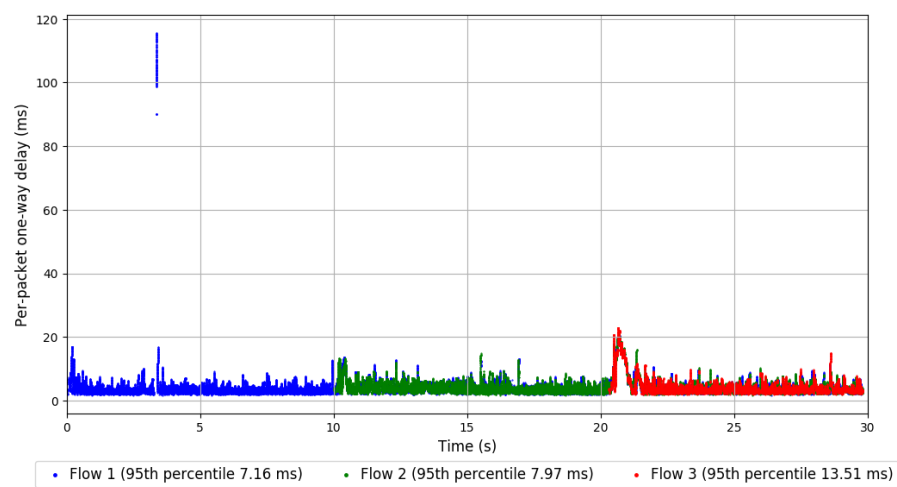
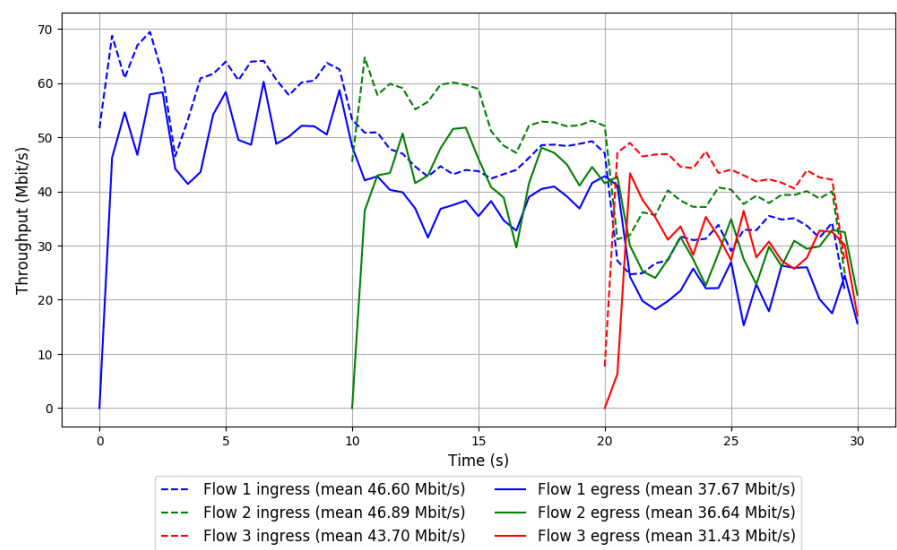


Run 3: Statistics of Indigo

Start at: 2018-12-02 05:36:00
End at: 2018-12-02 05:36:30
Local clock offset: 4.228 ms
Remote clock offset: -2.693 ms

Below is generated by plot.py at 2018-12-02 06:41:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 71.99 Mbit/s
95th percentile per-packet one-way delay: 8.056 ms
Loss rate: 21.44%
-- Flow 1:
Average throughput: 37.67 Mbit/s
95th percentile per-packet one-way delay: 7.159 ms
Loss rate: 19.17%
-- Flow 2:
Average throughput: 36.64 Mbit/s
95th percentile per-packet one-way delay: 7.969 ms
Loss rate: 21.85%
-- Flow 3:
Average throughput: 31.43 Mbit/s
95th percentile per-packet one-way delay: 13.514 ms
Loss rate: 28.10%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-12-02 05:59:04

End at: 2018-12-02 05:59:34

Local clock offset: 2.39 ms

Remote clock offset: 2.004 ms

Below is generated by plot.py at 2018-12-02 06:41:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.54 Mbit/s

95th percentile per-packet one-way delay: 16.706 ms

Loss rate: 11.44%

-- Flow 1:

Average throughput: 47.38 Mbit/s

95th percentile per-packet one-way delay: 15.758 ms

Loss rate: 10.14%

-- Flow 2:

Average throughput: 35.93 Mbit/s

95th percentile per-packet one-way delay: 16.921 ms

Loss rate: 12.61%

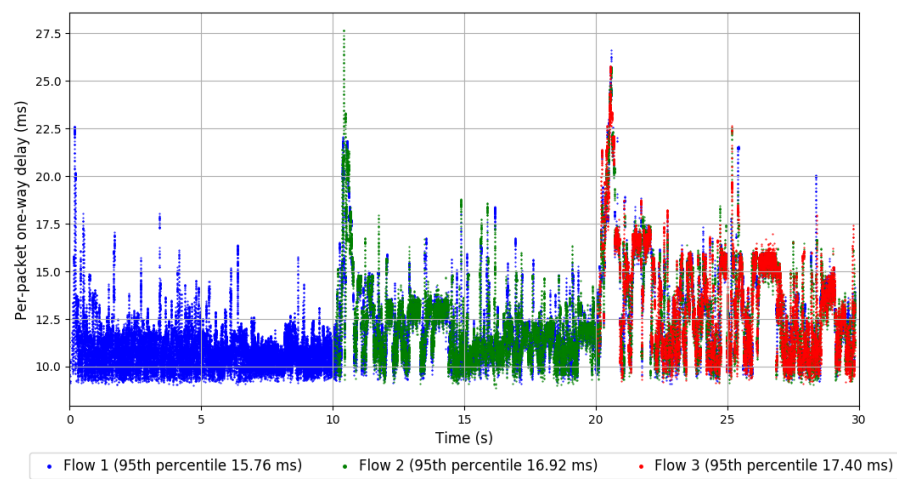
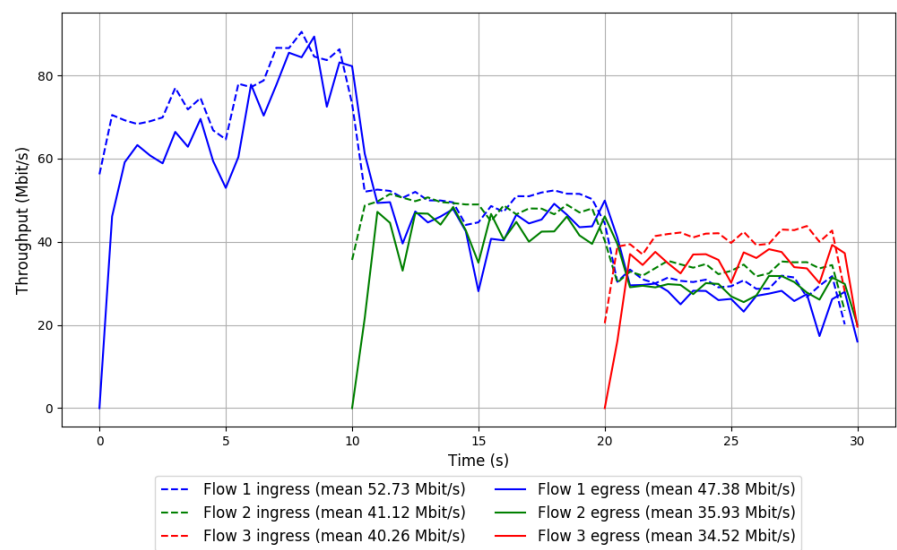
-- Flow 3:

Average throughput: 34.52 Mbit/s

95th percentile per-packet one-way delay: 17.398 ms

Loss rate: 14.24%

Run 4: Report of Indigo — Data Link

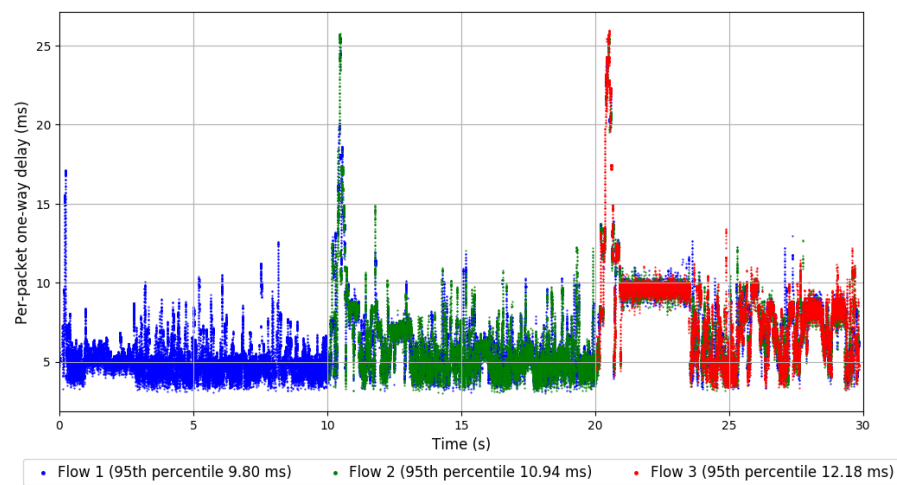
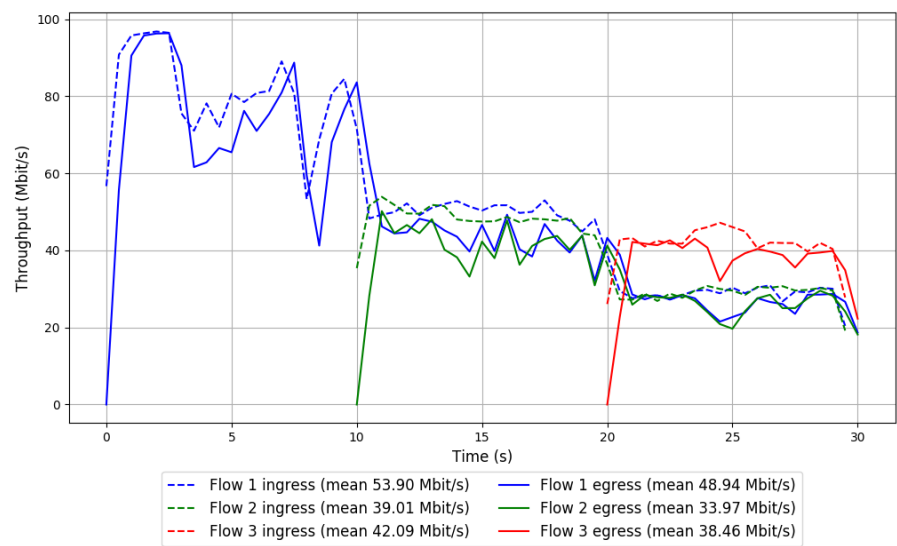


Run 5: Statistics of Indigo

Start at: 2018-12-02 06:22:28
End at: 2018-12-02 06:22:58
Local clock offset: 4.055 ms
Remote clock offset: -2.926 ms

Below is generated by plot.py at 2018-12-02 06:41:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.11 Mbit/s
95th percentile per-packet one-way delay: 10.033 ms
Loss rate: 10.14%
-- Flow 1:
Average throughput: 48.94 Mbit/s
95th percentile per-packet one-way delay: 9.802 ms
Loss rate: 9.21%
-- Flow 2:
Average throughput: 33.97 Mbit/s
95th percentile per-packet one-way delay: 10.936 ms
Loss rate: 12.90%
-- Flow 3:
Average throughput: 38.46 Mbit/s
95th percentile per-packet one-way delay: 12.180 ms
Loss rate: 8.62%

Run 5: Report of Indigo — Data Link

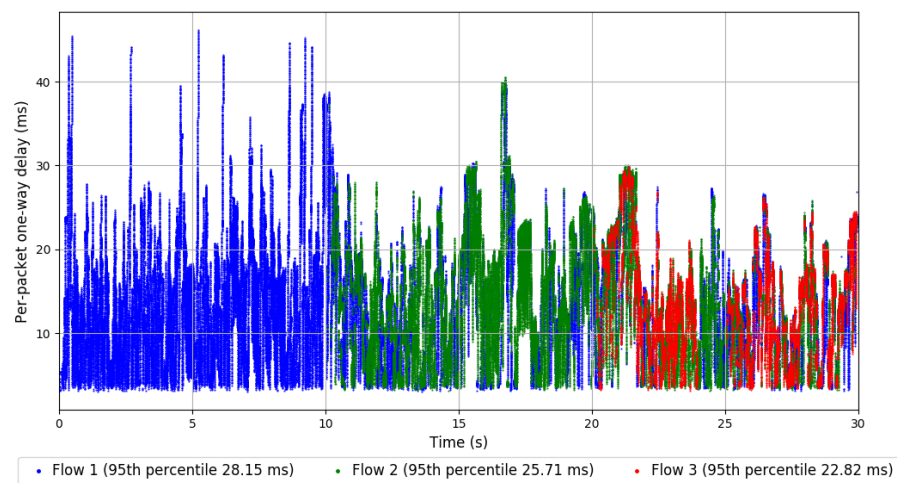
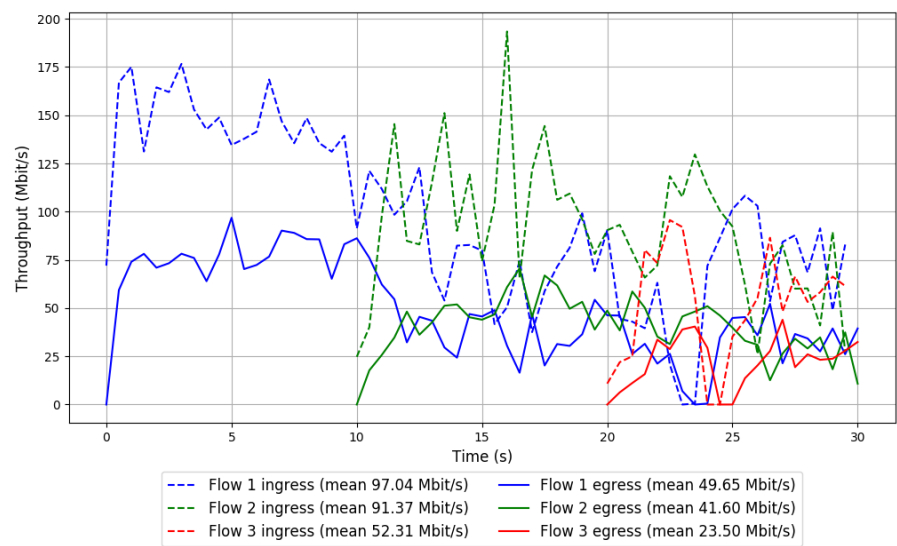


Run 1: Statistics of Indigo-96d2da3

Start at: 2018-12-02 04:59:05
End at: 2018-12-02 04:59:35
Local clock offset: 3.084 ms
Remote clock offset: -2.138 ms

Below is generated by plot.py at 2018-12-02 06:42:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.99 Mbit/s
95th percentile per-packet one-way delay: 26.999 ms
Loss rate: 51.37%
-- Flow 1:
Average throughput: 49.65 Mbit/s
95th percentile per-packet one-way delay: 28.147 ms
Loss rate: 48.80%
-- Flow 2:
Average throughput: 41.60 Mbit/s
95th percentile per-packet one-way delay: 25.706 ms
Loss rate: 54.45%
-- Flow 3:
Average throughput: 23.50 Mbit/s
95th percentile per-packet one-way delay: 22.825 ms
Loss rate: 55.05%

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



Run 2: Statistics of Indigo-96d2da3

Start at: 2018-12-02 05:21:53

End at: 2018-12-02 05:22:23

Local clock offset: 3.172 ms

Remote clock offset: -2.92 ms

Below is generated by plot.py at 2018-12-02 06:43:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.64 Mbit/s

95th percentile per-packet one-way delay: 24.196 ms

Loss rate: 52.56%

-- Flow 1:

Average throughput: 47.20 Mbit/s

95th percentile per-packet one-way delay: 25.426 ms

Loss rate: 50.78%

-- Flow 2:

Average throughput: 34.20 Mbit/s

95th percentile per-packet one-way delay: 20.991 ms

Loss rate: 53.80%

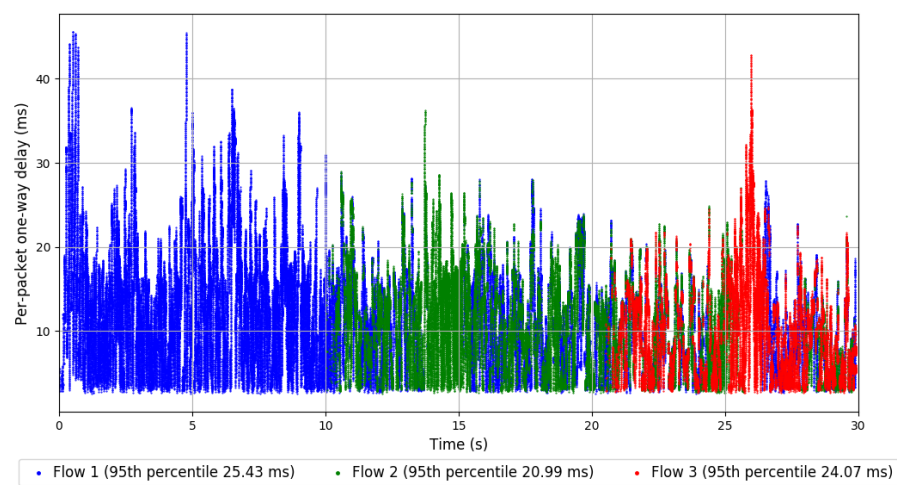
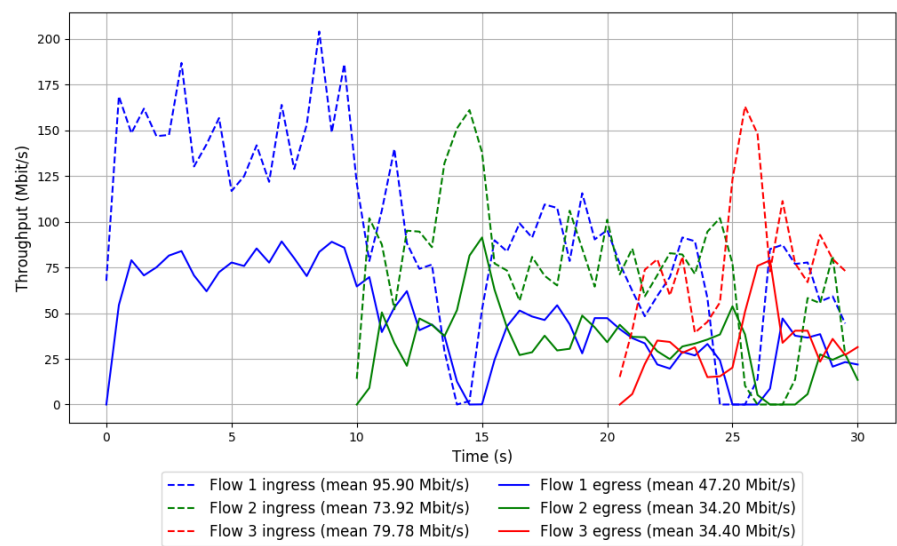
-- Flow 3:

Average throughput: 34.40 Mbit/s

95th percentile per-packet one-way delay: 24.073 ms

Loss rate: 56.93%

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

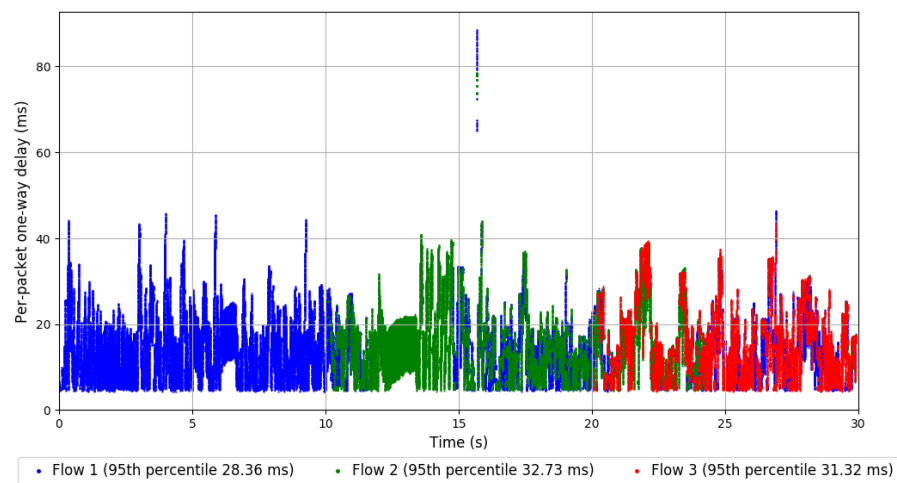
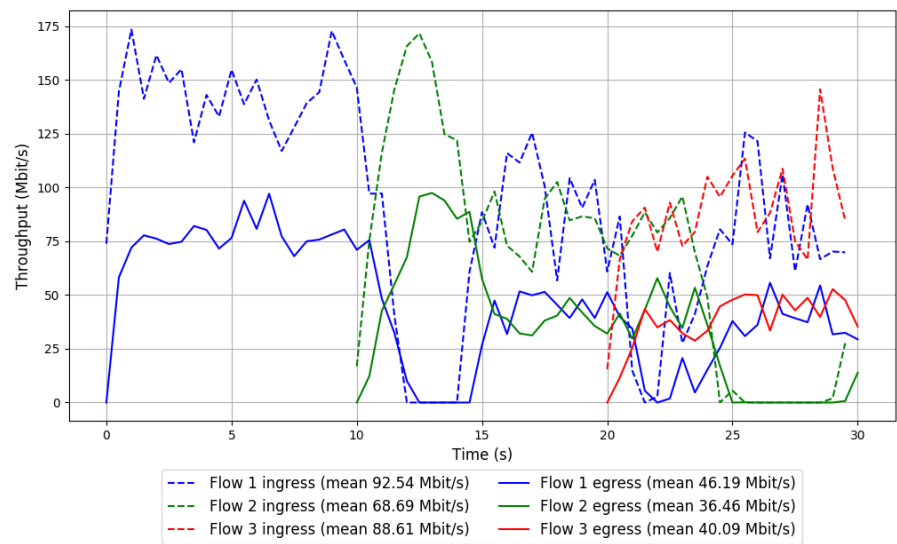


Run 3: Statistics of Indigo-96d2da3

Start at: 2018-12-02 05:44:28
End at: 2018-12-02 05:44:58
Local clock offset: 2.23 ms
Remote clock offset: -2.043 ms

Below is generated by plot.py at 2018-12-02 06:43:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.64 Mbit/s
95th percentile per-packet one-way delay: 30.731 ms
Loss rate: 50.03%
-- Flow 1:
Average throughput: 46.19 Mbit/s
95th percentile per-packet one-way delay: 28.361 ms
Loss rate: 50.07%
-- Flow 2:
Average throughput: 36.46 Mbit/s
95th percentile per-packet one-way delay: 32.731 ms
Loss rate: 46.93%
-- Flow 3:
Average throughput: 40.09 Mbit/s
95th percentile per-packet one-way delay: 31.323 ms
Loss rate: 54.74%

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

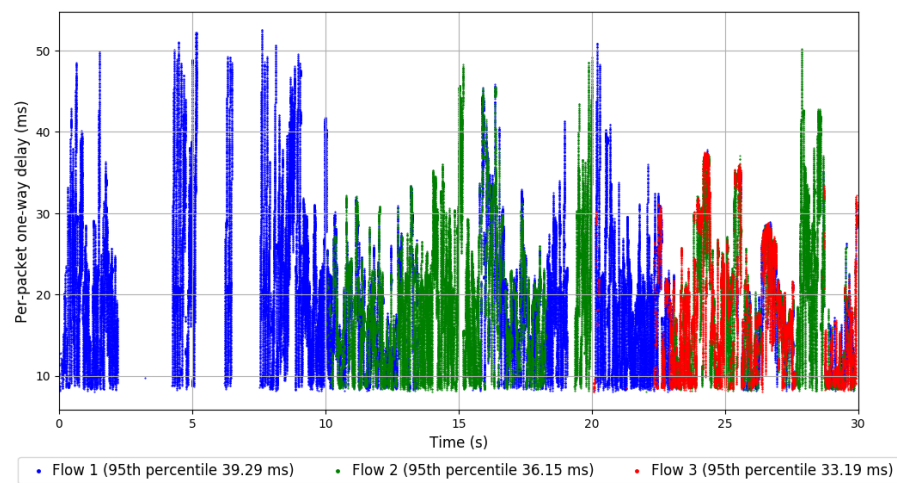
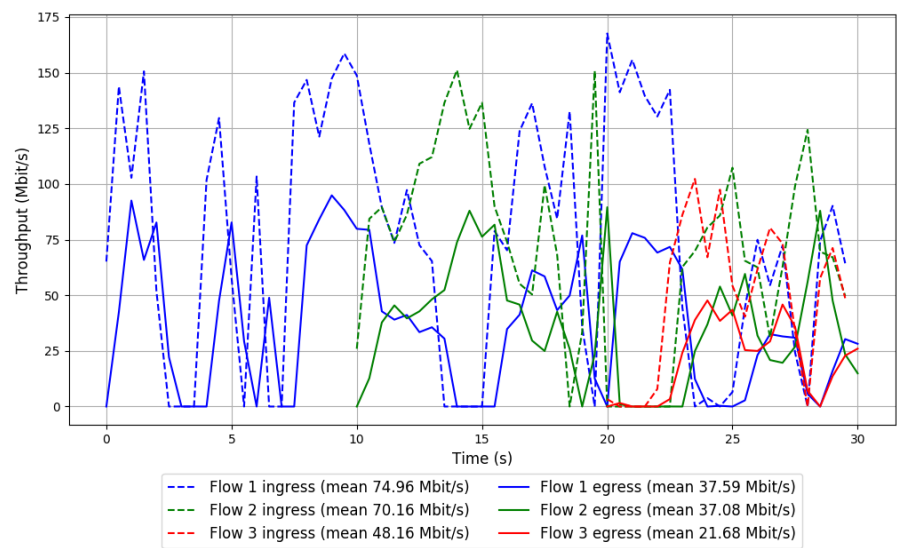


Run 4: Statistics of Indigo-96d2da3

Start at: 2018-12-02 06:07:59
End at: 2018-12-02 06:08:29
Local clock offset: 1.184 ms
Remote clock offset: -0.445 ms

Below is generated by plot.py at 2018-12-02 06:43:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.39 Mbit/s
95th percentile per-packet one-way delay: 37.368 ms
Loss rate: 49.50%
-- Flow 1:
Average throughput: 37.59 Mbit/s
95th percentile per-packet one-way delay: 39.290 ms
Loss rate: 49.82%
-- Flow 2:
Average throughput: 37.08 Mbit/s
95th percentile per-packet one-way delay: 36.153 ms
Loss rate: 47.14%
-- Flow 3:
Average throughput: 21.68 Mbit/s
95th percentile per-packet one-way delay: 33.190 ms
Loss rate: 54.88%

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

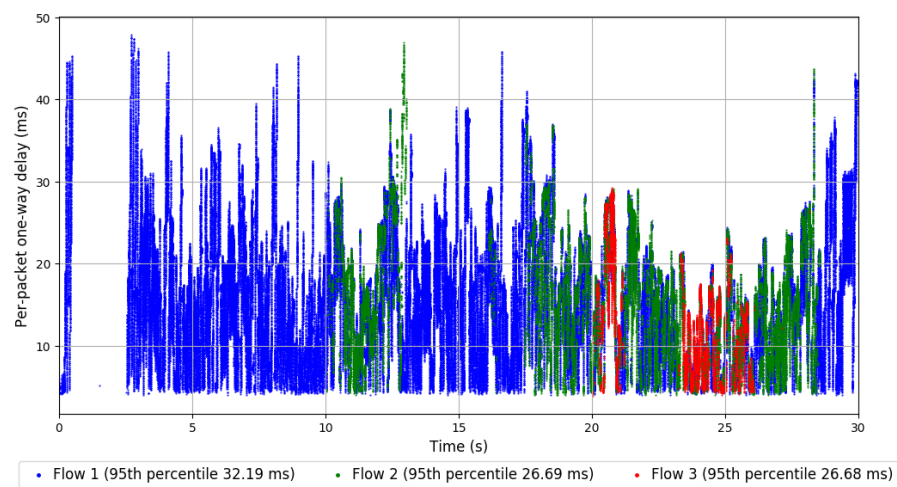
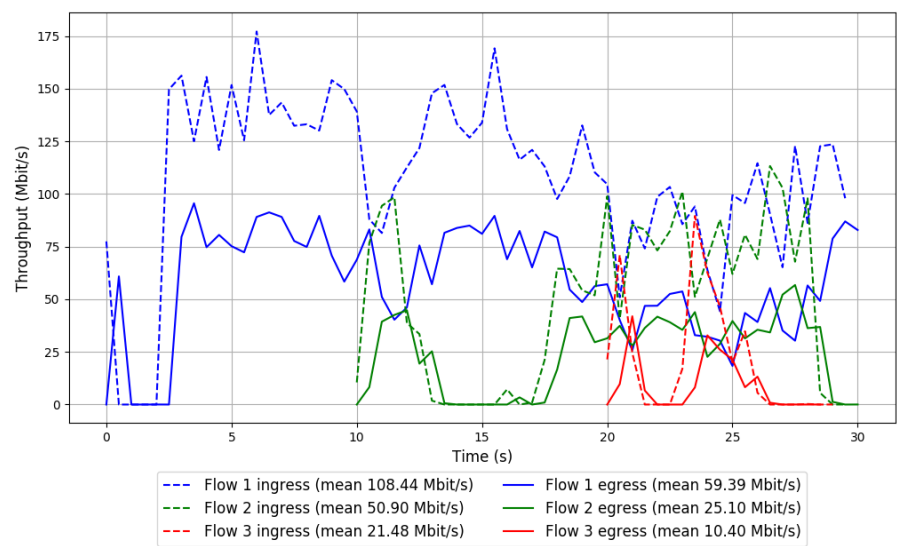


Run 5: Statistics of Indigo-96d2da3

Start at: 2018-12-02 06:30:47
End at: 2018-12-02 06:31:17
Local clock offset: -1.946 ms
Remote clock offset: -6.794 ms

Below is generated by plot.py at 2018-12-02 06:43:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.62 Mbit/s
95th percentile per-packet one-way delay: 30.623 ms
Loss rate: 46.92%
-- Flow 1:
Average throughput: 59.39 Mbit/s
95th percentile per-packet one-way delay: 32.188 ms
Loss rate: 45.17%
-- Flow 2:
Average throughput: 25.10 Mbit/s
95th percentile per-packet one-way delay: 26.689 ms
Loss rate: 50.65%
-- Flow 3:
Average throughput: 10.40 Mbit/s
95th percentile per-packet one-way delay: 26.685 ms
Loss rate: 57.02%

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

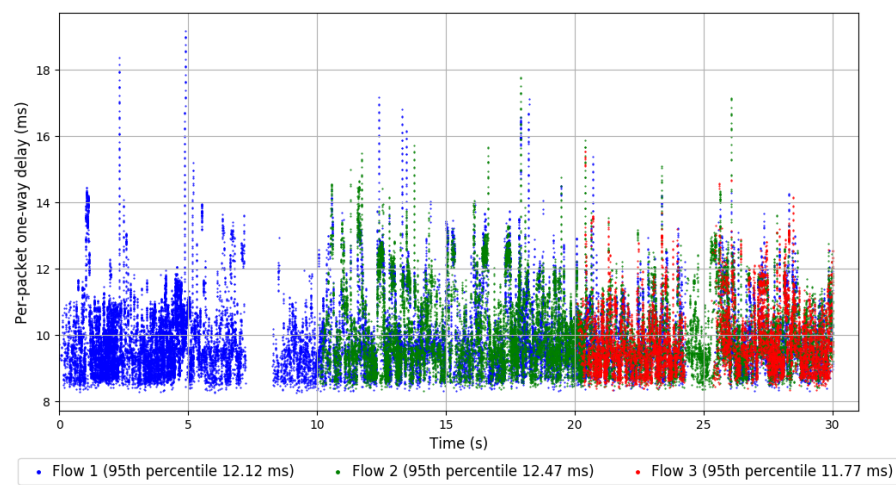
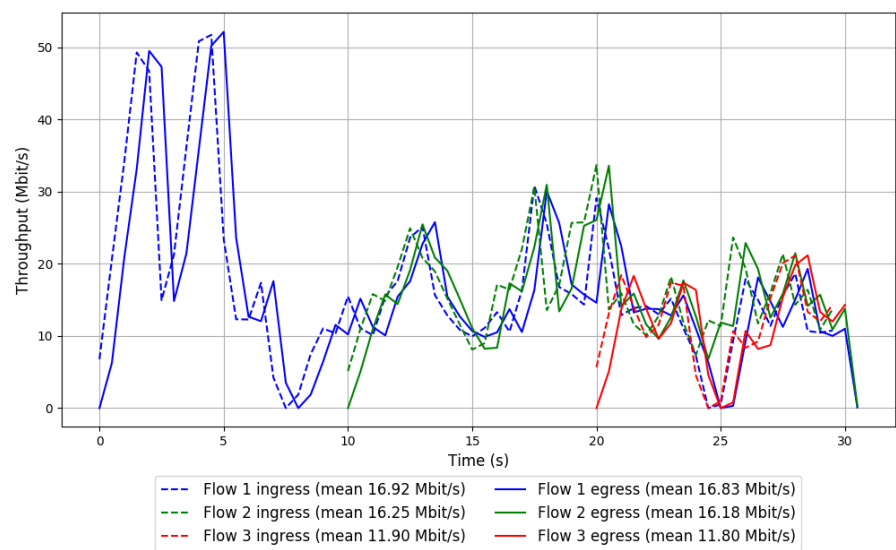


```
Run 1: Statistics of LEDBAT

Start at: 2018-12-02 04:53:00
End at: 2018-12-02 04:53:30
Local clock offset: 1.005 ms
Remote clock offset: 1.341 ms

# Below is generated by plot.py at 2018-12-02 06:43:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.53 Mbit/s
95th percentile per-packet one-way delay: 12.269 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 16.83 Mbit/s
95th percentile per-packet one-way delay: 12.122 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 16.18 Mbit/s
95th percentile per-packet one-way delay: 12.475 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 11.80 Mbit/s
95th percentile per-packet one-way delay: 11.768 ms
Loss rate: 0.80%
```

Run 1: Report of LEDBAT — Data Link

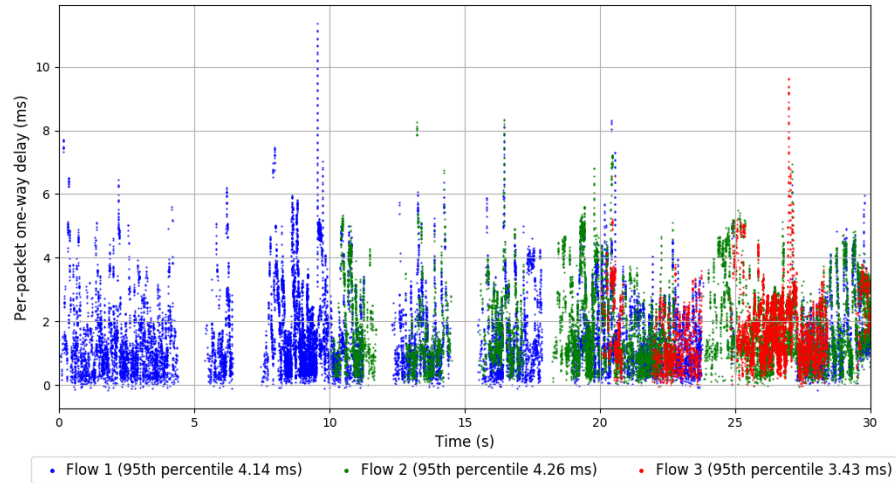
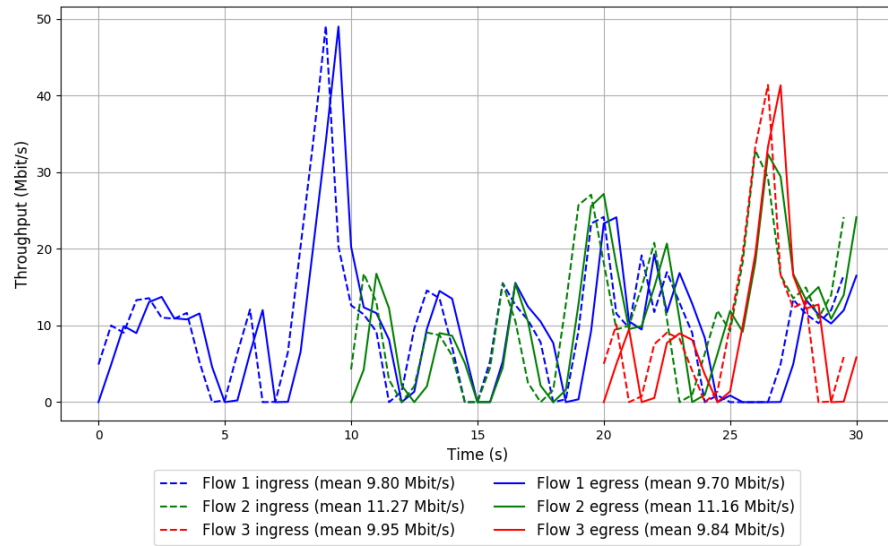


Run 2: Statistics of LEDBAT

Start at: 2018-12-02 05:15:57
End at: 2018-12-02 05:16:27
Local clock offset: 0.527 ms
Remote clock offset: -8.243 ms

Below is generated by plot.py at 2018-12-02 06:43:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 20.40 Mbit/s
95th percentile per-packet one-way delay: 4.134 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 9.70 Mbit/s
95th percentile per-packet one-way delay: 4.142 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 11.16 Mbit/s
95th percentile per-packet one-way delay: 4.263 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 9.84 Mbit/s
95th percentile per-packet one-way delay: 3.428 ms
Loss rate: 1.11%

Run 2: Report of LEDBAT — Data Link

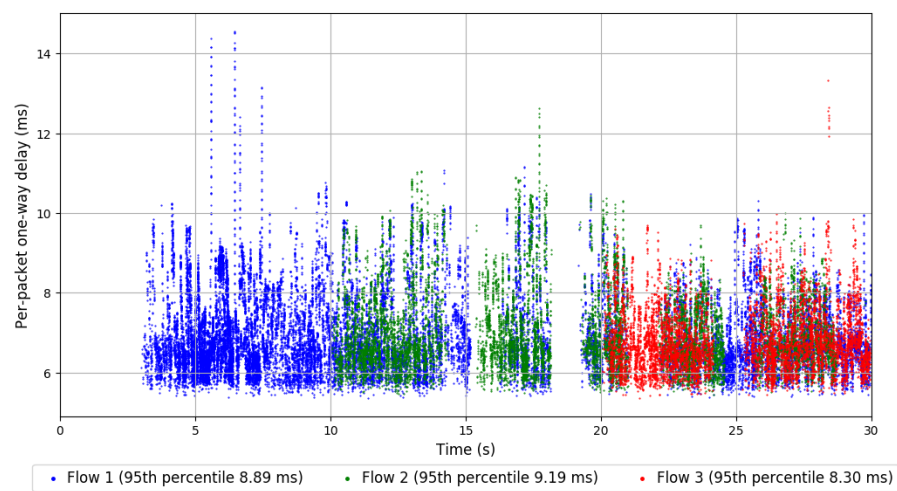
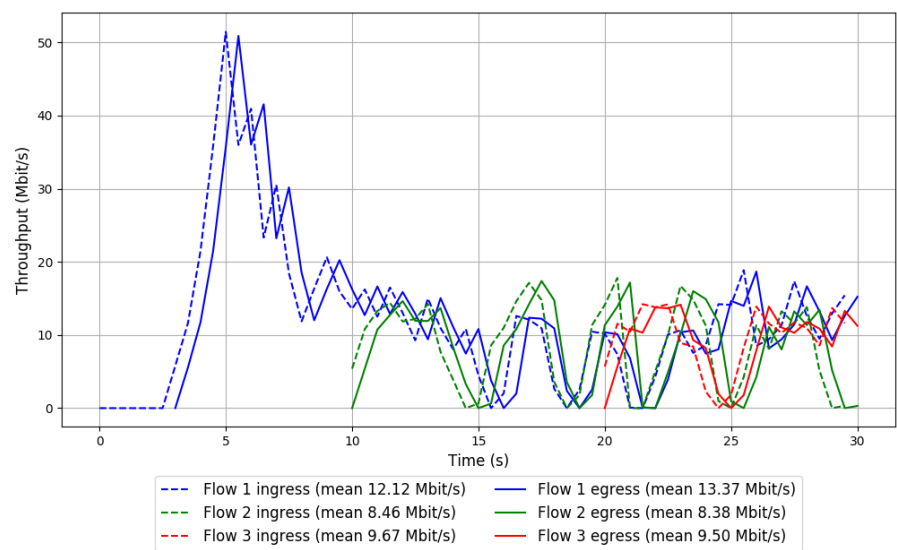


Run 3: Statistics of LEDBAT

Start at: 2018-12-02 05:38:24
End at: 2018-12-02 05:38:54
Local clock offset: 1.552 ms
Remote clock offset: -1.654 ms

Below is generated by plot.py at 2018-12-02 06:43:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 23.02 Mbit/s
95th percentile per-packet one-way delay: 8.872 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 13.37 Mbit/s
95th percentile per-packet one-way delay: 8.894 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 8.38 Mbit/s
95th percentile per-packet one-way delay: 9.187 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 9.50 Mbit/s
95th percentile per-packet one-way delay: 8.299 ms
Loss rate: 1.72%

Run 3: Report of LEDBAT — Data Link

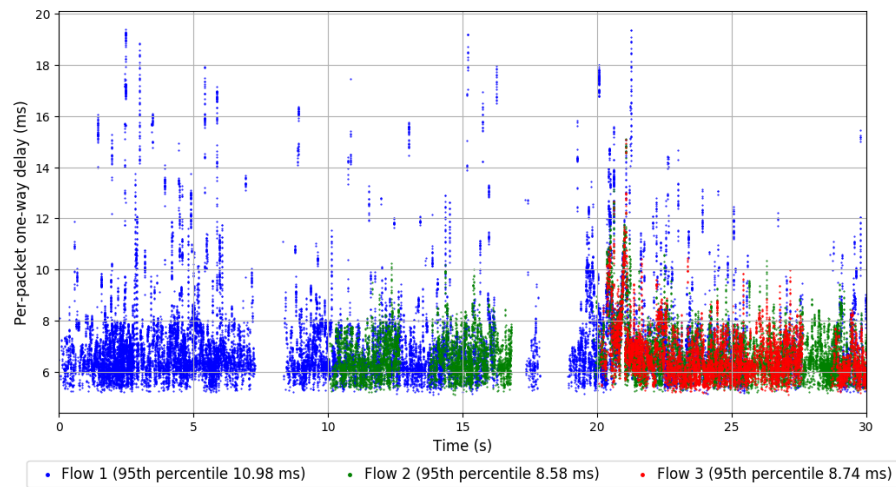
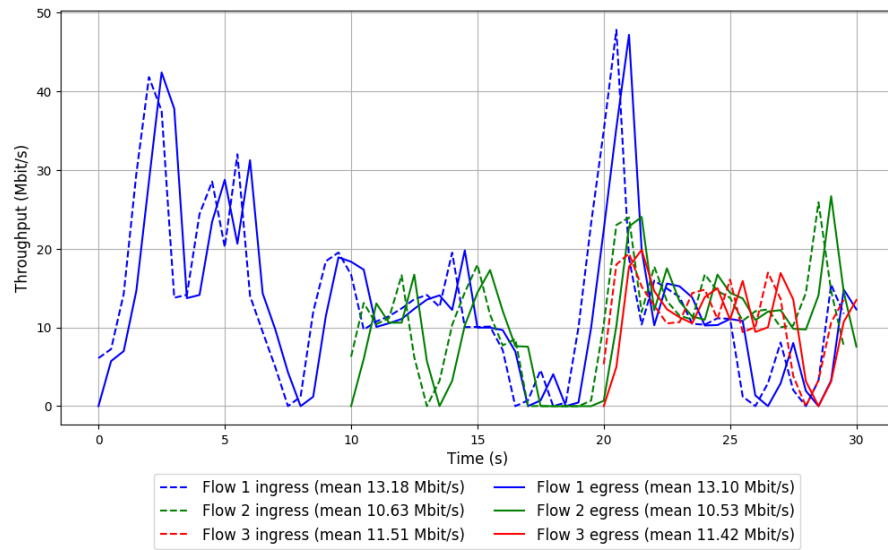


Run 4: Statistics of LEDBAT

Start at: 2018-12-02 06:01:52
End at: 2018-12-02 06:02:22
Local clock offset: 1.731 ms
Remote clock offset: -2.586 ms

Below is generated by plot.py at 2018-12-02 06:43:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 23.90 Mbit/s
95th percentile per-packet one-way delay: 10.006 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 13.10 Mbit/s
95th percentile per-packet one-way delay: 10.977 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 10.53 Mbit/s
95th percentile per-packet one-way delay: 8.584 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 11.42 Mbit/s
95th percentile per-packet one-way delay: 8.742 ms
Loss rate: 0.85%

Run 4: Report of LEDBAT — Data Link

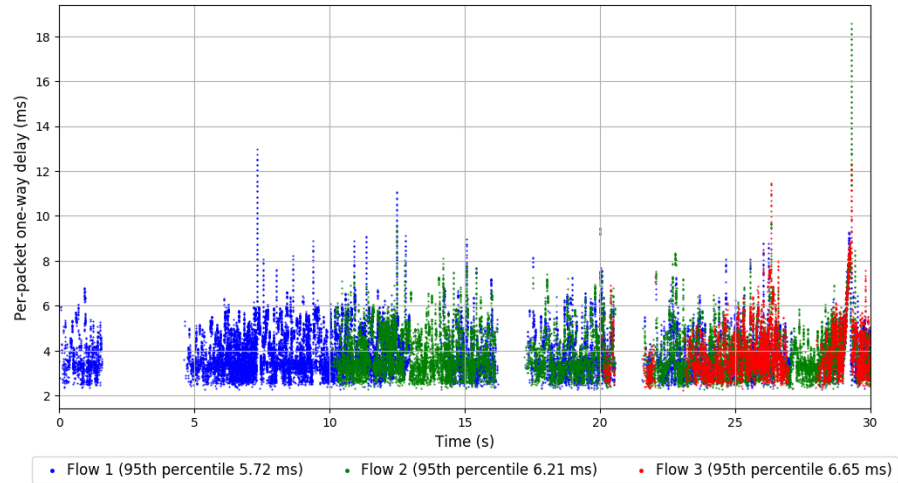
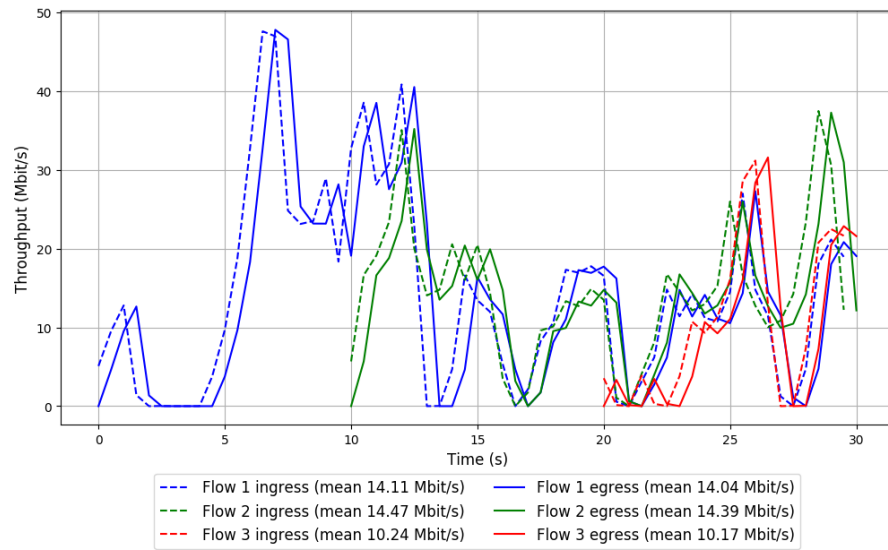


Run 5: Statistics of LEDBAT

Start at: 2018-12-02 06:24:51
End at: 2018-12-02 06:25:21
Local clock offset: 4.626 ms
Remote clock offset: -3.156 ms

Below is generated by plot.py at 2018-12-02 06:43:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 27.00 Mbit/s
95th percentile per-packet one-way delay: 5.892 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 14.04 Mbit/s
95th percentile per-packet one-way delay: 5.719 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 14.39 Mbit/s
95th percentile per-packet one-way delay: 6.207 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 10.17 Mbit/s
95th percentile per-packet one-way delay: 6.653 ms
Loss rate: 0.71%

Run 5: Report of LEDBAT — Data Link

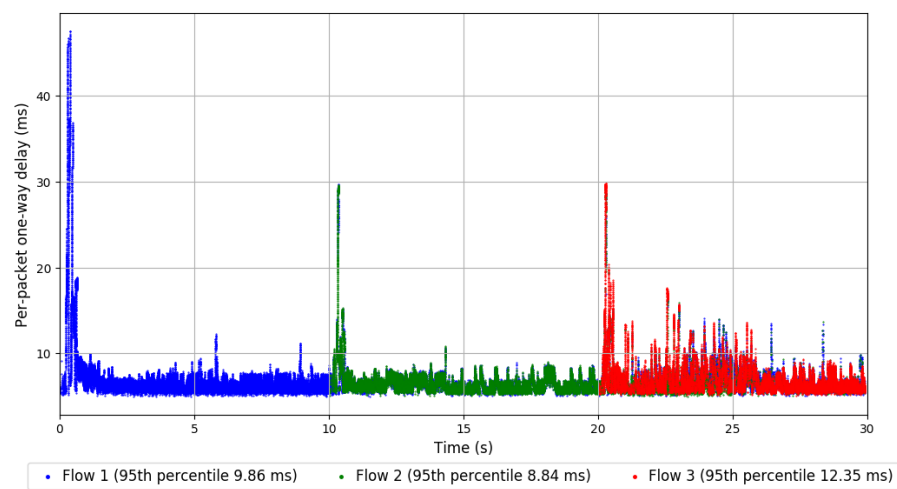
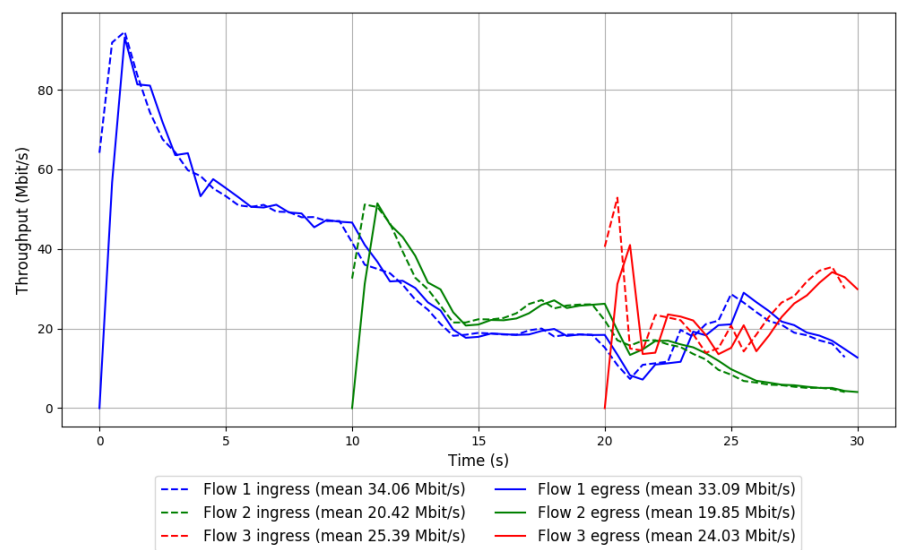



```
Run 1: Statistics of Indigo-Muses

Start at: 2018-12-02 04:54:13
End at: 2018-12-02 04:54:43
Local clock offset: 0.329 ms
Remote clock offset: -2.665 ms

# Below is generated by plot.py at 2018-12-02 06:43:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 54.24 Mbit/s
95th percentile per-packet one-way delay: 10.127 ms
Loss rate: 3.21%
-- Flow 1:
Average throughput: 33.09 Mbit/s
95th percentile per-packet one-way delay: 9.863 ms
Loss rate: 2.83%
-- Flow 2:
Average throughput: 19.85 Mbit/s
95th percentile per-packet one-way delay: 8.835 ms
Loss rate: 2.81%
-- Flow 3:
Average throughput: 24.03 Mbit/s
95th percentile per-packet one-way delay: 12.349 ms
Loss rate: 5.37%
```

Run 1: Report of Indigo-Muses — Data Link

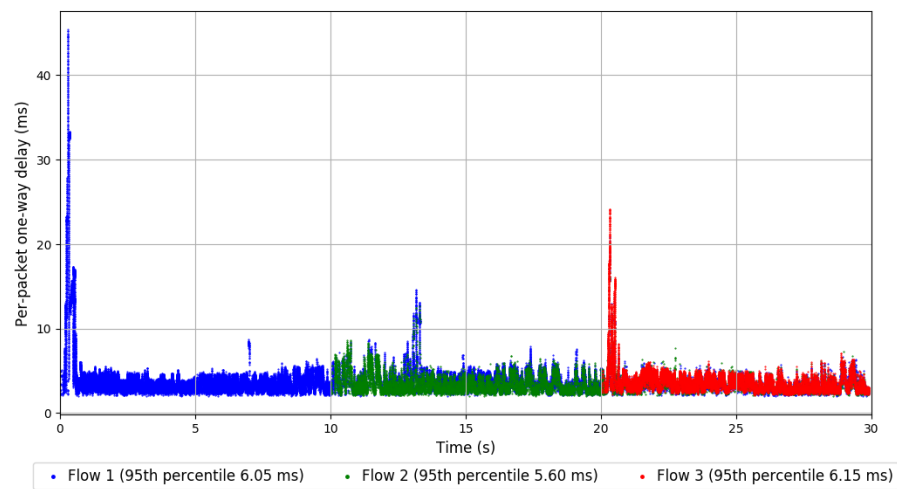
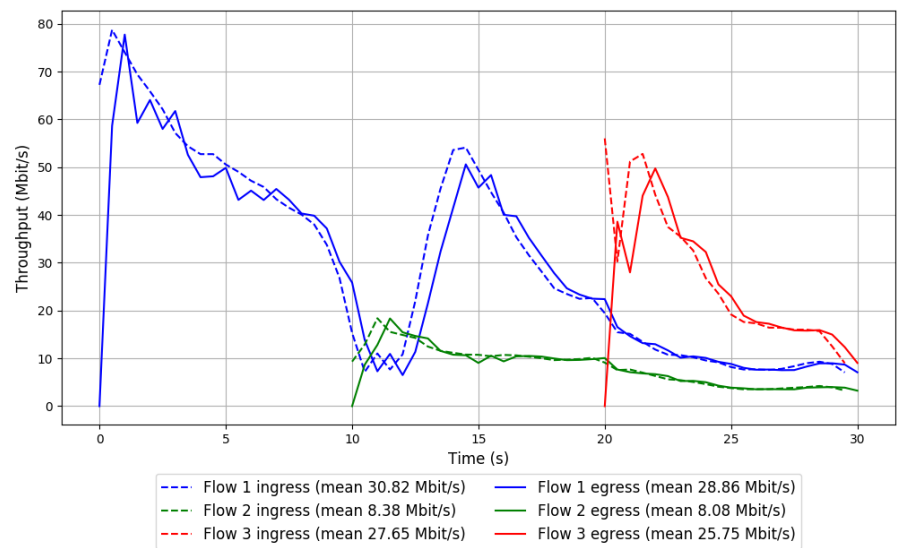


Run 2: Statistics of Indigo-Muses

Start at: 2018-12-02 05:17:06
End at: 2018-12-02 05:17:36
Local clock offset: 3.3 ms
Remote clock offset: -3.295 ms

Below is generated by plot.py at 2018-12-02 06:43:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 42.74 Mbit/s
95th percentile per-packet one-way delay: 5.911 ms
Loss rate: 6.12%
-- Flow 1:
Average throughput: 28.86 Mbit/s
95th percentile per-packet one-way delay: 6.048 ms
Loss rate: 6.35%
-- Flow 2:
Average throughput: 8.08 Mbit/s
95th percentile per-packet one-way delay: 5.600 ms
Loss rate: 3.54%
-- Flow 3:
Average throughput: 25.75 Mbit/s
95th percentile per-packet one-way delay: 6.147 ms
Loss rate: 6.90%

Run 2: Report of Indigo-Muses — Data Link

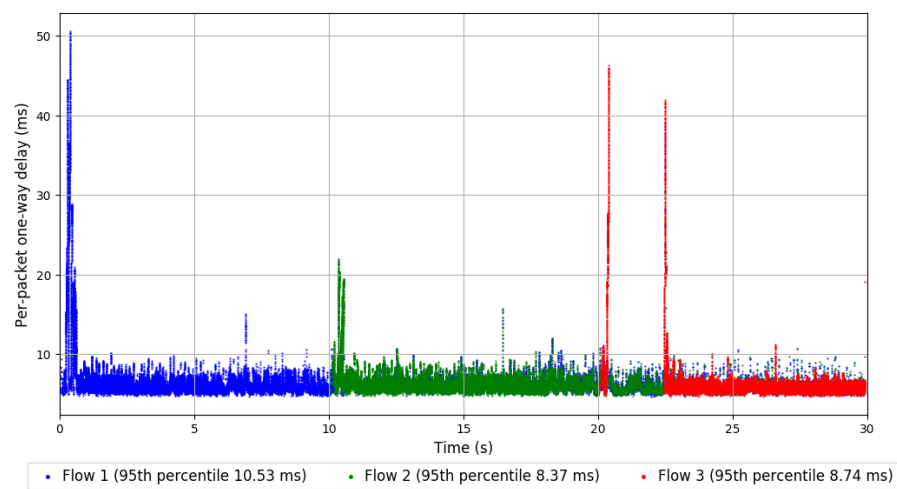
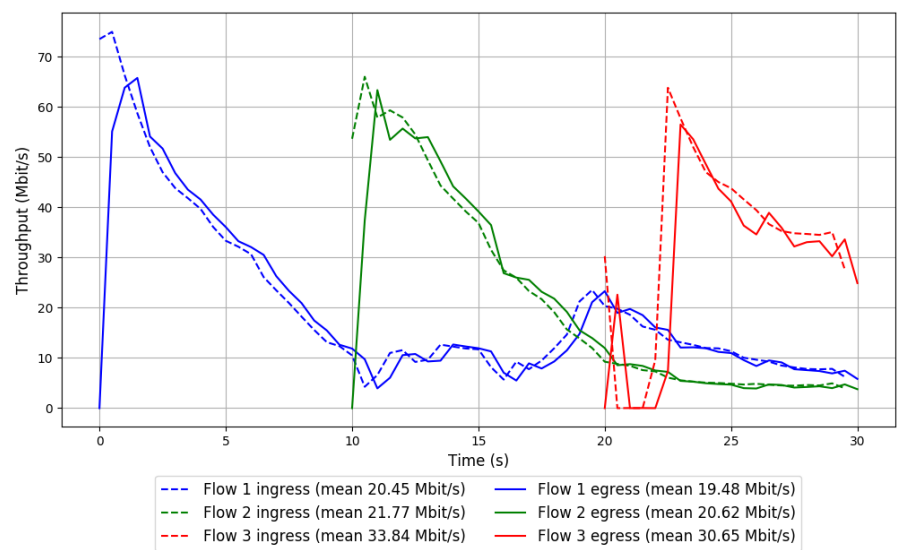


Run 3: Statistics of Indigo-Muses

Start at: 2018-12-02 05:39:33
End at: 2018-12-02 05:40:03
Local clock offset: 2.217 ms
Remote clock offset: -1.644 ms

Below is generated by plot.py at 2018-12-02 06:43:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 43.31 Mbit/s
95th percentile per-packet one-way delay: 8.905 ms
Loss rate: 6.02%
-- Flow 1:
Average throughput: 19.48 Mbit/s
95th percentile per-packet one-way delay: 10.528 ms
Loss rate: 4.76%
-- Flow 2:
Average throughput: 20.62 Mbit/s
95th percentile per-packet one-way delay: 8.373 ms
Loss rate: 5.26%
-- Flow 3:
Average throughput: 30.65 Mbit/s
95th percentile per-packet one-way delay: 8.741 ms
Loss rate: 9.32%

Run 3: Report of Indigo-Muses — Data Link

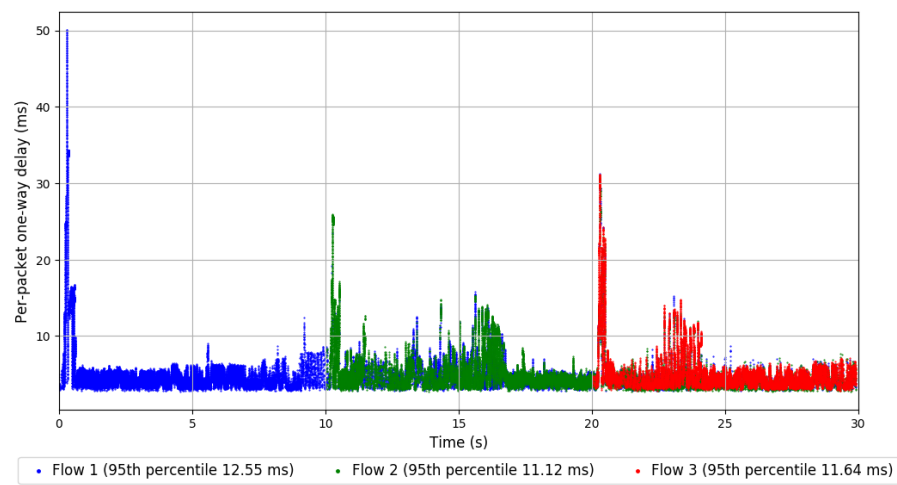
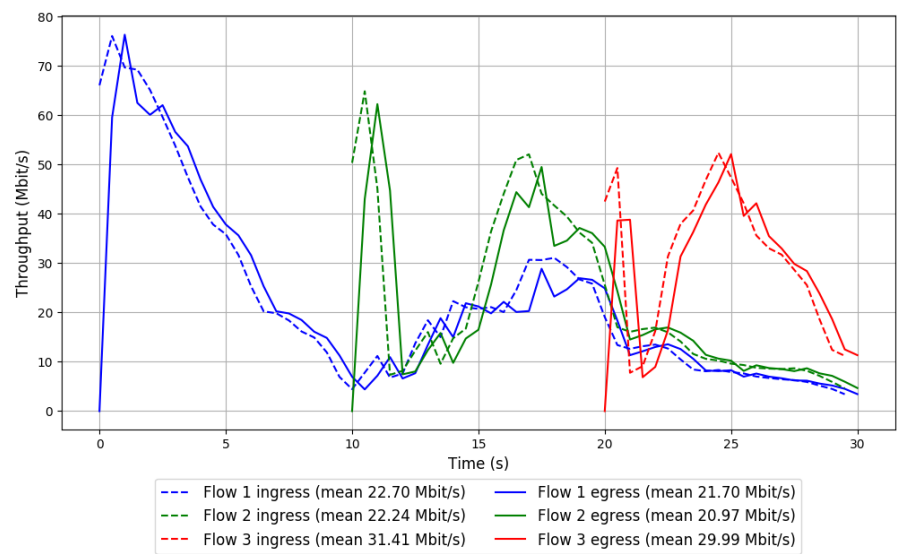


Run 4: Statistics of Indigo-Muses

Start at: 2018-12-02 06:03:04
End at: 2018-12-02 06:03:34
Local clock offset: 4.623 ms
Remote clock offset: -2.048 ms

Below is generated by plot.py at 2018-12-02 06:43:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 45.55 Mbit/s
95th percentile per-packet one-way delay: 11.520 ms
Loss rate: 4.83%
-- Flow 1:
Average throughput: 21.70 Mbit/s
95th percentile per-packet one-way delay: 12.552 ms
Loss rate: 4.39%
-- Flow 2:
Average throughput: 20.97 Mbit/s
95th percentile per-packet one-way delay: 11.119 ms
Loss rate: 5.73%
-- Flow 3:
Average throughput: 29.99 Mbit/s
95th percentile per-packet one-way delay: 11.645 ms
Loss rate: 4.51%

Run 4: Report of Indigo-Muses — Data Link

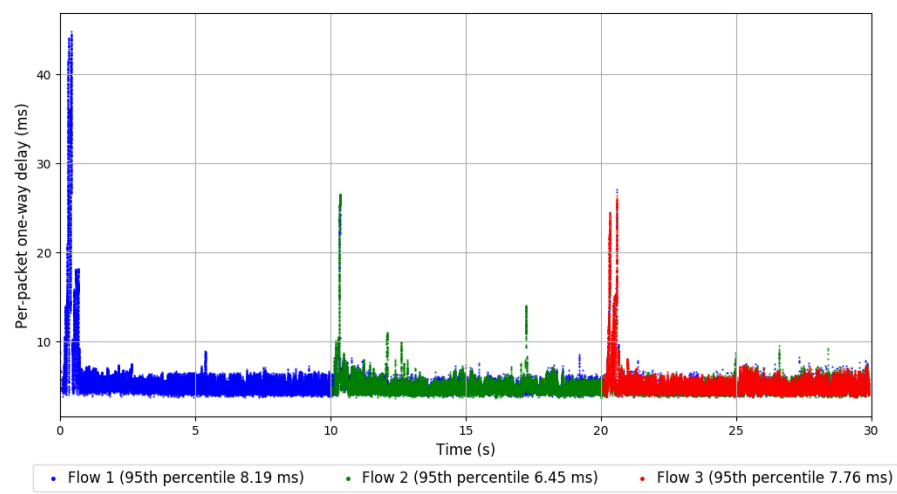
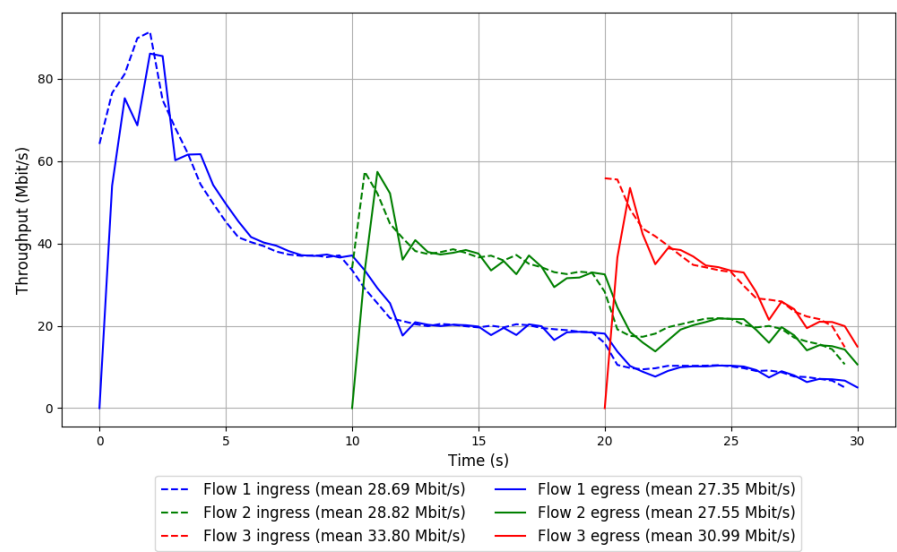


Run 5: Statistics of Indigo-Muses

Start at: 2018-12-02 06:26:00
End at: 2018-12-02 06:26:30
Local clock offset: 3.697 ms
Remote clock offset: -2.574 ms

Below is generated by plot.py at 2018-12-02 06:43:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 55.92 Mbit/s
95th percentile per-packet one-way delay: 6.992 ms
Loss rate: 5.28%
-- Flow 1:
Average throughput: 27.35 Mbit/s
95th percentile per-packet one-way delay: 8.186 ms
Loss rate: 4.67%
-- Flow 2:
Average throughput: 27.55 Mbit/s
95th percentile per-packet one-way delay: 6.445 ms
Loss rate: 4.43%
-- Flow 3:
Average throughput: 30.99 Mbit/s
95th percentile per-packet one-way delay: 7.761 ms
Loss rate: 8.32%

Run 5: Report of Indigo-Muses — Data Link

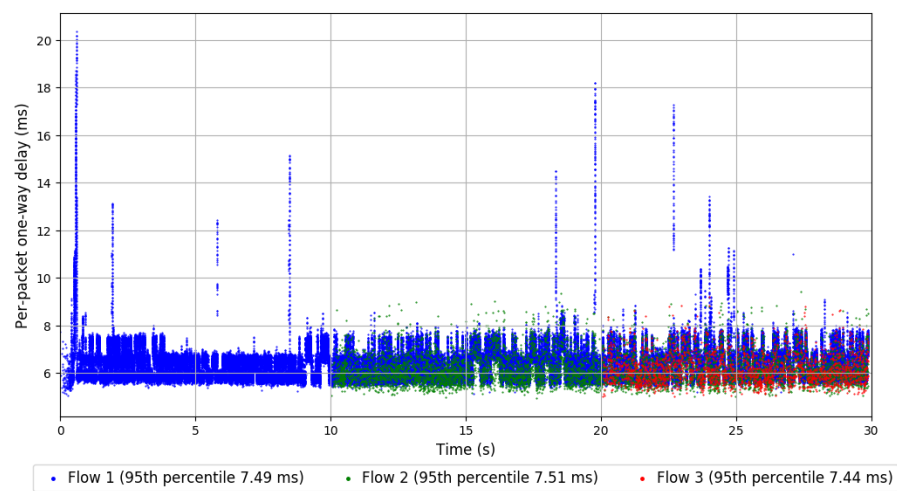
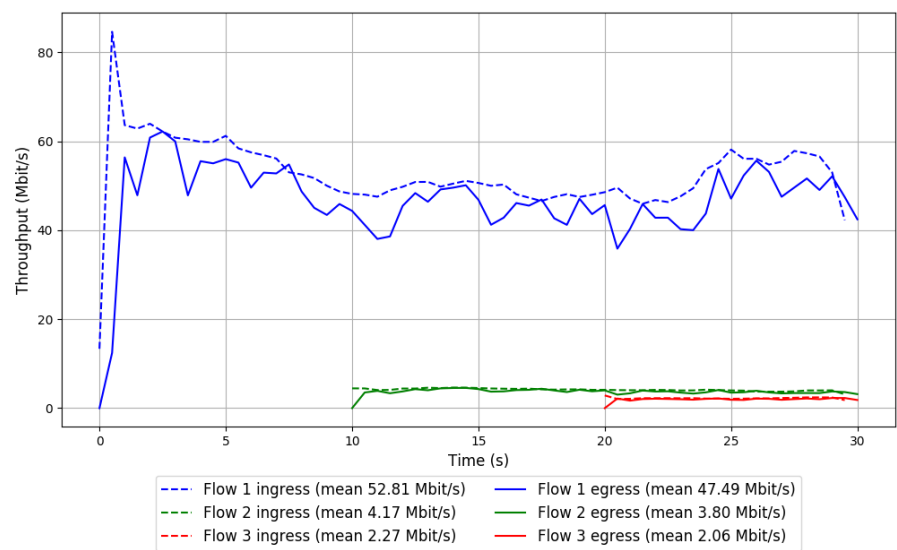


Run 1: Statistics of PCC-Allegro

Start at: 2018-12-02 05:00:29
End at: 2018-12-02 05:00:59
Local clock offset: 1.518 ms
Remote clock offset: -1.712 ms

Below is generated by plot.py at 2018-12-02 06:43:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 50.70 Mbit/s
95th percentile per-packet one-way delay: 7.491 ms
Loss rate: 10.01%
-- Flow 1:
Average throughput: 47.49 Mbit/s
95th percentile per-packet one-way delay: 7.491 ms
Loss rate: 10.08%
-- Flow 2:
Average throughput: 3.80 Mbit/s
95th percentile per-packet one-way delay: 7.509 ms
Loss rate: 8.89%
-- Flow 3:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 7.444 ms
Loss rate: 9.15%

Run 1: Report of PCC-Allegro — Data Link

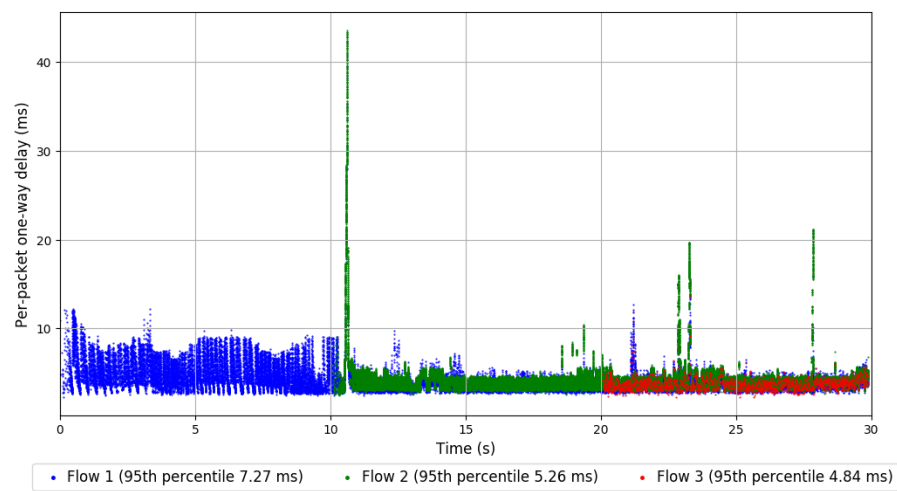
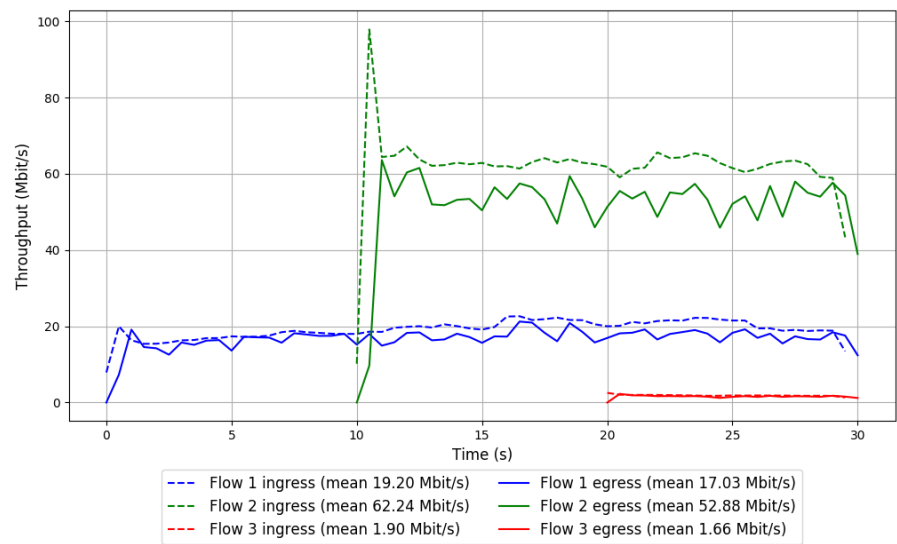


Run 2: Statistics of PCC-Allegro

Start at: 2018-12-02 05:23:11
End at: 2018-12-02 05:23:41
Local clock offset: 3.836 ms
Remote clock offset: -2.379 ms

Below is generated by plot.py at 2018-12-02 06:43:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 52.74 Mbit/s
95th percentile per-packet one-way delay: 6.134 ms
Loss rate: 13.86%
-- Flow 1:
Average throughput: 17.03 Mbit/s
95th percentile per-packet one-way delay: 7.270 ms
Loss rate: 11.34%
-- Flow 2:
Average throughput: 52.88 Mbit/s
95th percentile per-packet one-way delay: 5.260 ms
Loss rate: 15.04%
-- Flow 3:
Average throughput: 1.66 Mbit/s
95th percentile per-packet one-way delay: 4.841 ms
Loss rate: 13.08%

Run 2: Report of PCC-Allegro — Data Link

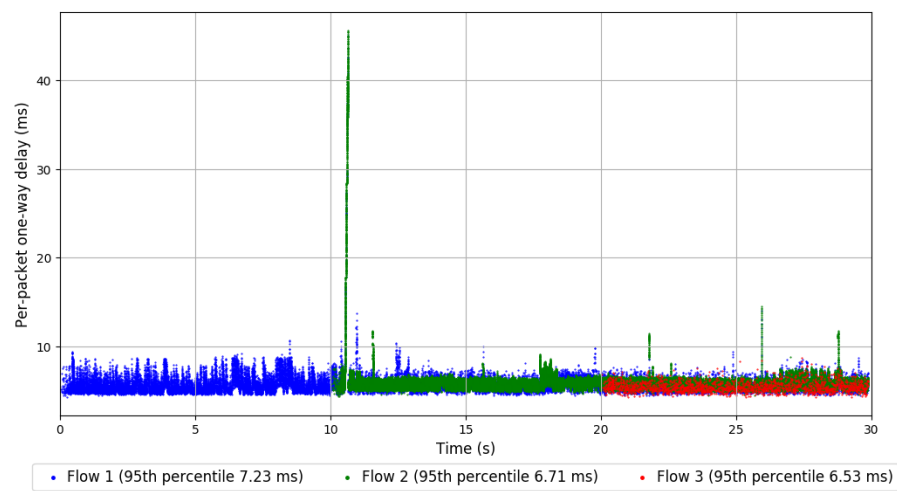
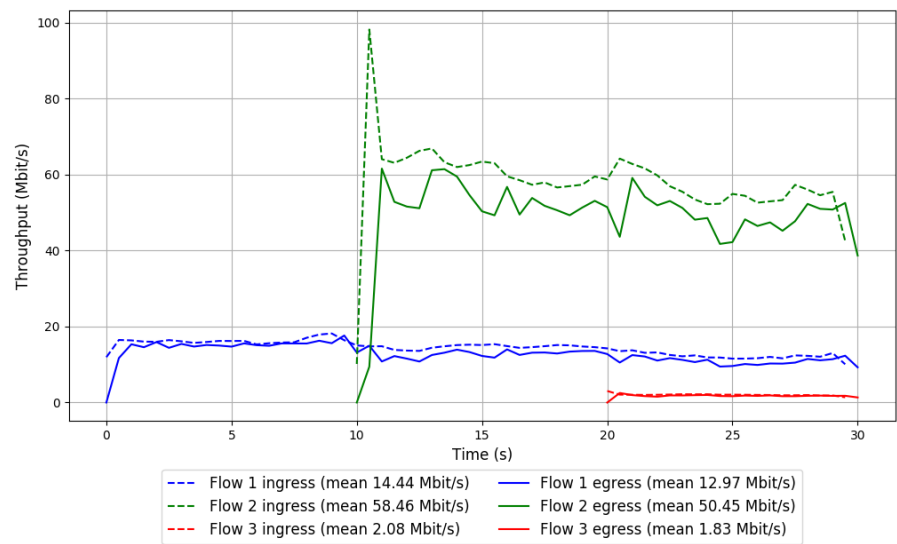


Run 3: Statistics of PCC-Allegro

Start at: 2018-12-02 05:45:49
End at: 2018-12-02 05:46:19
Local clock offset: 2.829 ms
Remote clock offset: -1.356 ms

Below is generated by plot.py at 2018-12-02 06:43:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 47.12 Mbit/s
95th percentile per-packet one-way delay: 6.862 ms
Loss rate: 12.73%
-- Flow 1:
Average throughput: 12.97 Mbit/s
95th percentile per-packet one-way delay: 7.232 ms
Loss rate: 10.17%
-- Flow 2:
Average throughput: 50.45 Mbit/s
95th percentile per-packet one-way delay: 6.715 ms
Loss rate: 13.69%
-- Flow 3:
Average throughput: 1.83 Mbit/s
95th percentile per-packet one-way delay: 6.531 ms
Loss rate: 11.91%

Run 3: Report of PCC-Allegro — Data Link

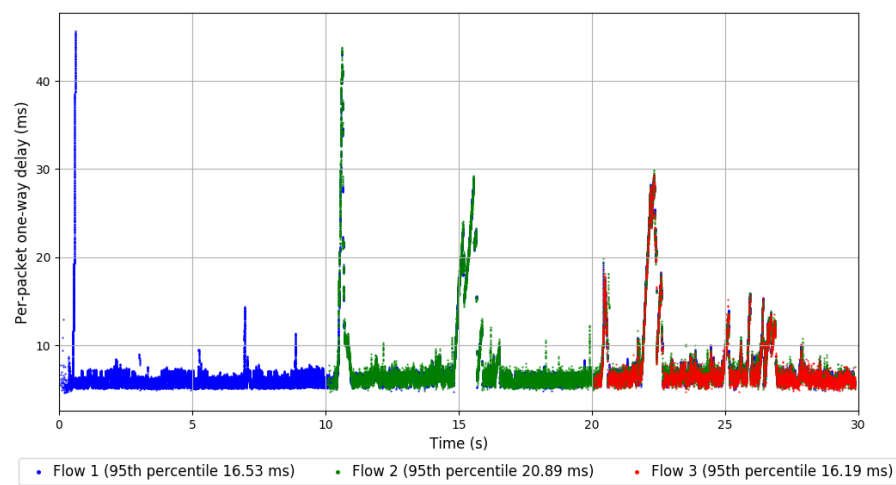
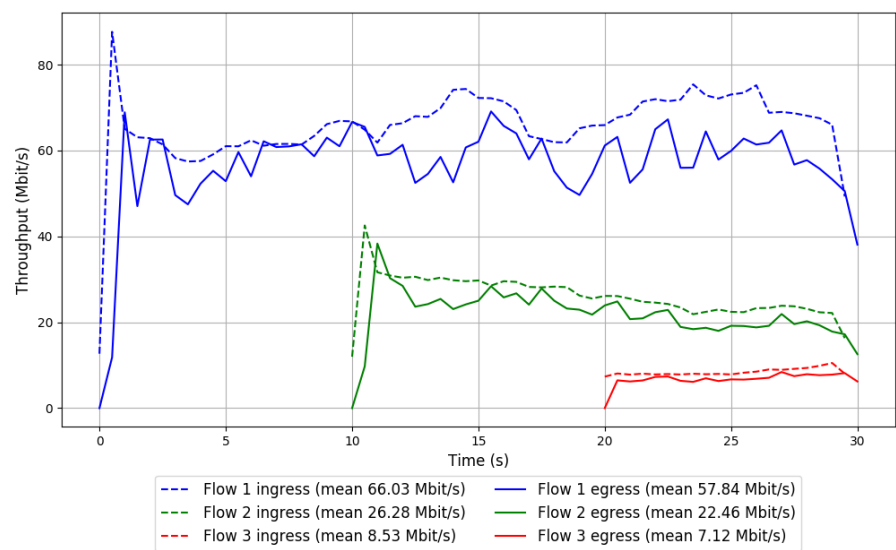


Run 4: Statistics of PCC-Allegro

Start at: 2018-12-02 06:09:18
End at: 2018-12-02 06:09:48
Local clock offset: 3.193 ms
Remote clock offset: -1.787 ms

Below is generated by plot.py at 2018-12-02 06:44:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.13 Mbit/s
95th percentile per-packet one-way delay: 17.606 ms
Loss rate: 12.96%
-- Flow 1:
Average throughput: 57.84 Mbit/s
95th percentile per-packet one-way delay: 16.531 ms
Loss rate: 12.40%
-- Flow 2:
Average throughput: 22.46 Mbit/s
95th percentile per-packet one-way delay: 20.888 ms
Loss rate: 14.52%
-- Flow 3:
Average throughput: 7.12 Mbit/s
95th percentile per-packet one-way delay: 16.192 ms
Loss rate: 16.53%

Run 4: Report of PCC-Allegro — Data Link

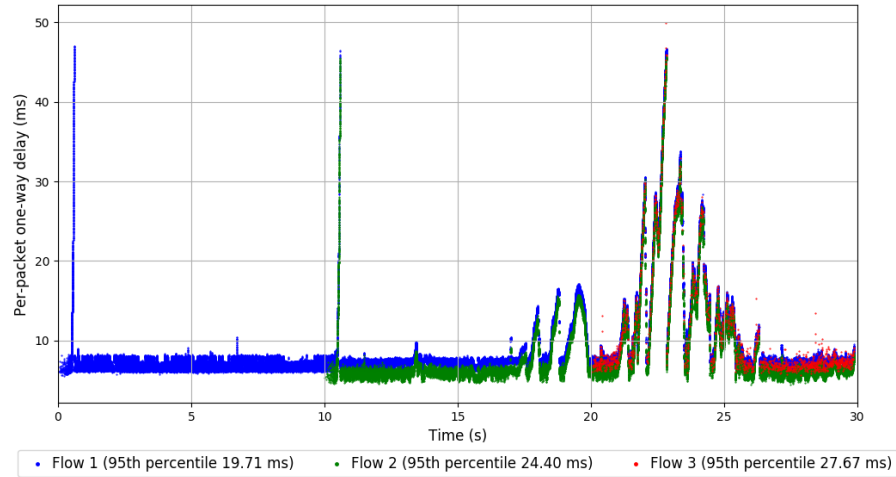
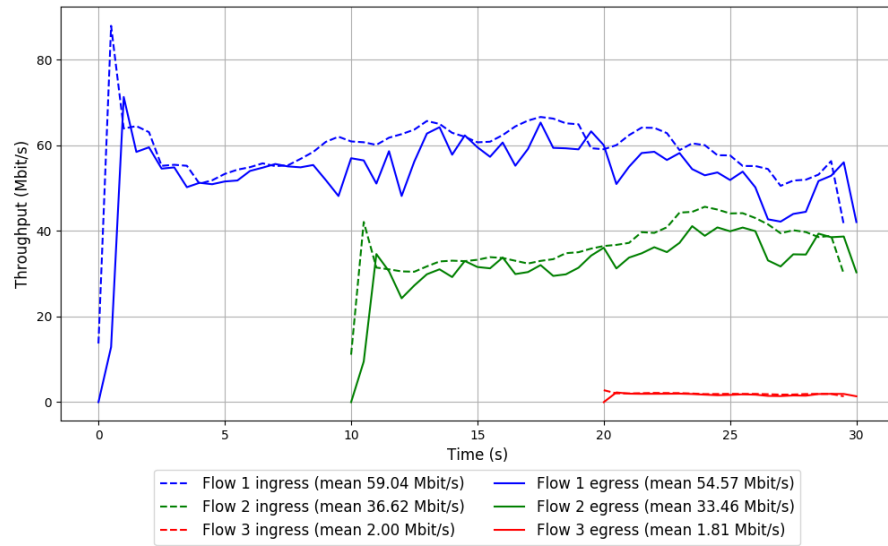


Run 5: Statistics of PCC-Allegro

Start at: 2018-12-02 06:32:00
End at: 2018-12-02 06:32:30
Local clock offset: 2.748 ms
Remote clock offset: -1.786 ms

Below is generated by plot.py at 2018-12-02 06:44:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.42 Mbit/s
95th percentile per-packet one-way delay: 22.455 ms
Loss rate: 7.89%
-- Flow 1:
Average throughput: 54.57 Mbit/s
95th percentile per-packet one-way delay: 19.707 ms
Loss rate: 7.58%
-- Flow 2:
Average throughput: 33.46 Mbit/s
95th percentile per-packet one-way delay: 24.396 ms
Loss rate: 8.61%
-- Flow 3:
Average throughput: 1.81 Mbit/s
95th percentile per-packet one-way delay: 27.669 ms
Loss rate: 9.67%

Run 5: Report of PCC-Allegro — Data Link

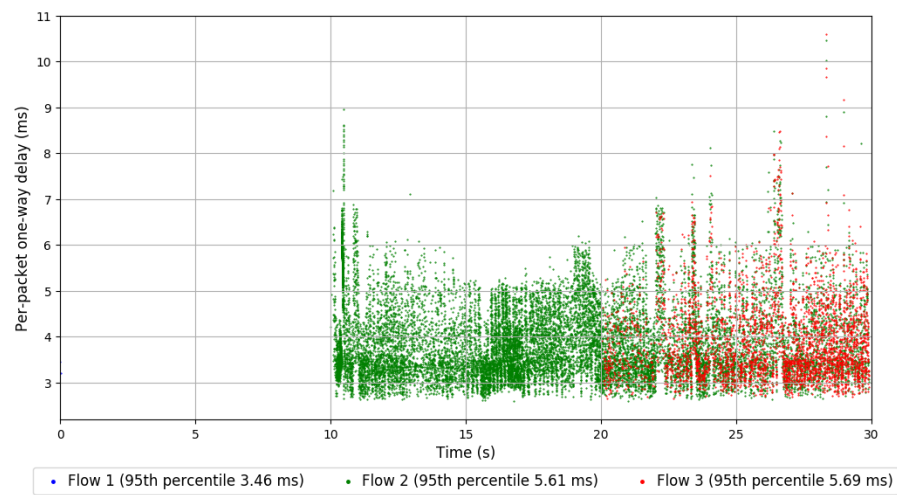
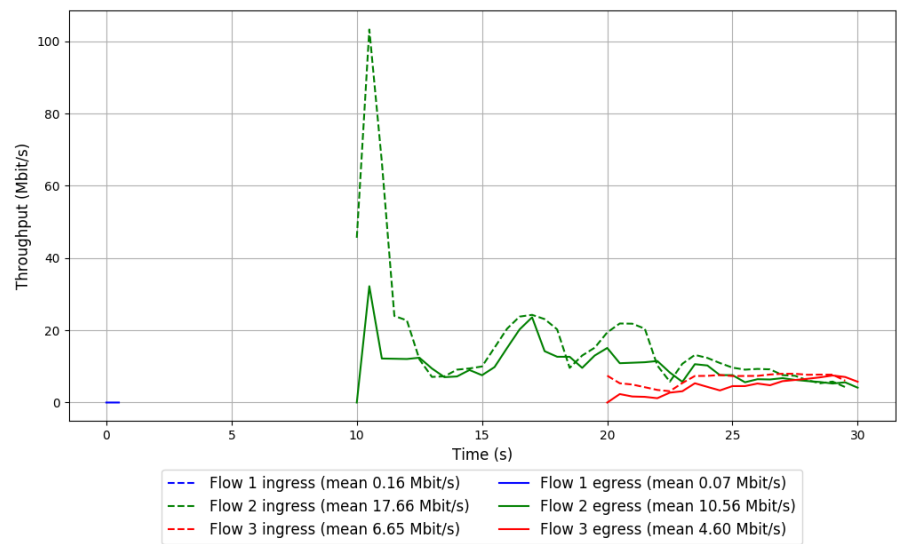


```
Run 1: Statistics of PCC-Expr

Start at: 2018-12-02 04:56:44
End at: 2018-12-02 04:57:15
Local clock offset: 3.071 ms
Remote clock offset: -2.515 ms

# Below is generated by plot.py at 2018-12-02 06:44:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.54 Mbit/s
95th percentile per-packet one-way delay: 5.620 ms
Loss rate: 38.74%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 3.455 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 10.56 Mbit/s
95th percentile per-packet one-way delay: 5.607 ms
Loss rate: 40.22%
-- Flow 3:
Average throughput: 4.60 Mbit/s
95th percentile per-packet one-way delay: 5.686 ms
Loss rate: 30.79%
```

Run 1: Report of PCC-Expr — Data Link

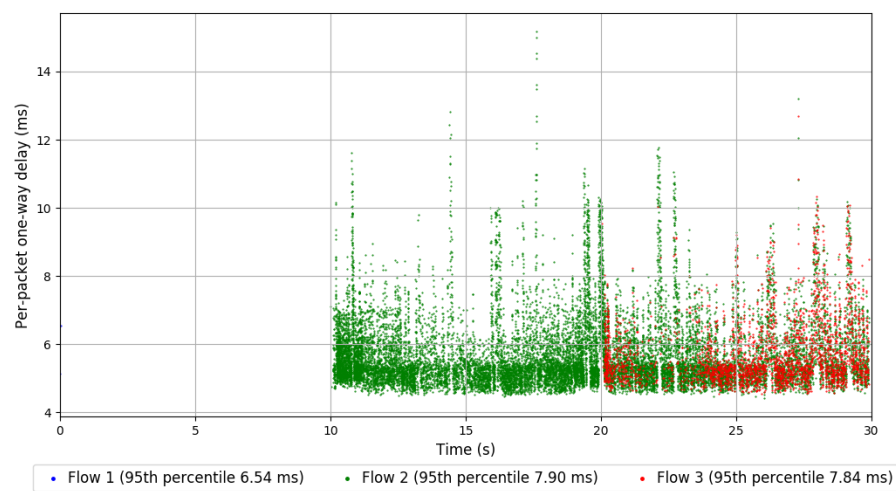
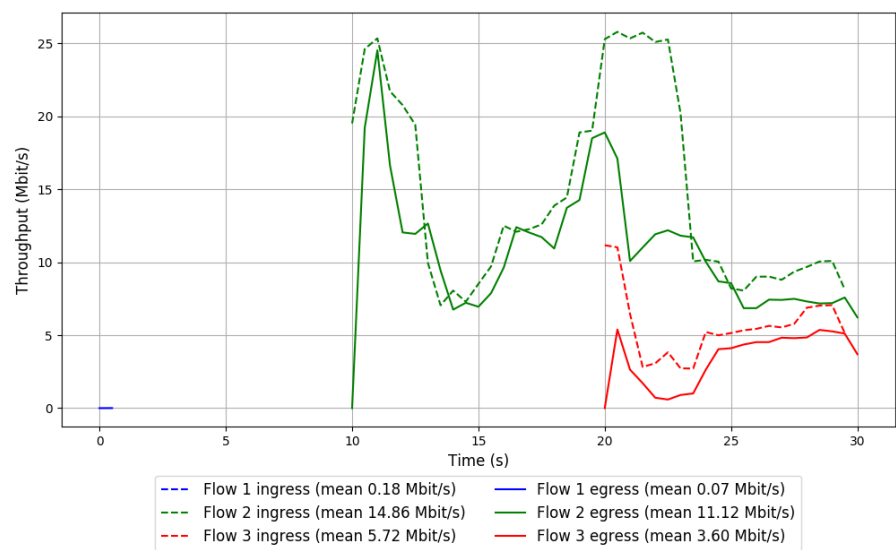


Run 2: Statistics of PCC-Expr

Start at: 2018-12-02 05:19:35
End at: 2018-12-02 05:20:05
Local clock offset: 2.242 ms
Remote clock offset: -1.921 ms

Below is generated by plot.py at 2018-12-02 06:44:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.58 Mbit/s
95th percentile per-packet one-way delay: 7.893 ms
Loss rate: 27.12%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 6.539 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 11.12 Mbit/s
95th percentile per-packet one-way delay: 7.898 ms
Loss rate: 25.21%
-- Flow 3:
Average throughput: 3.60 Mbit/s
95th percentile per-packet one-way delay: 7.839 ms
Loss rate: 37.13%

Run 2: Report of PCC-Expr — Data Link

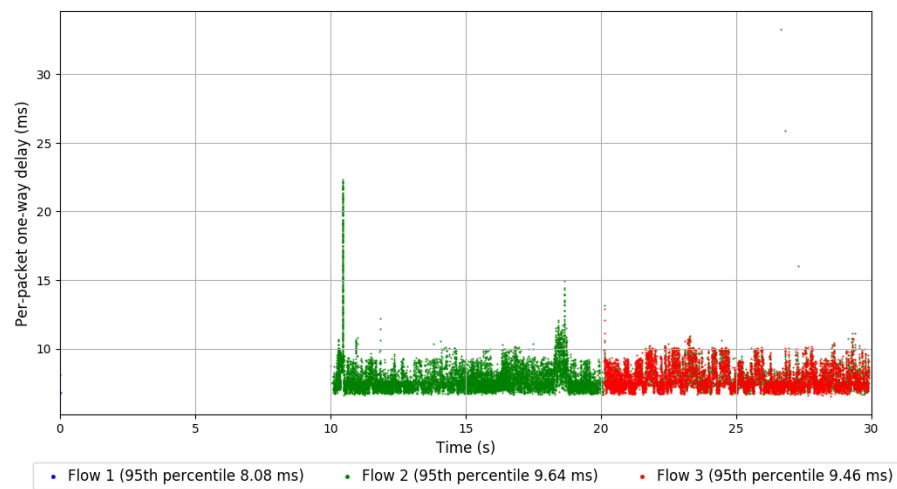
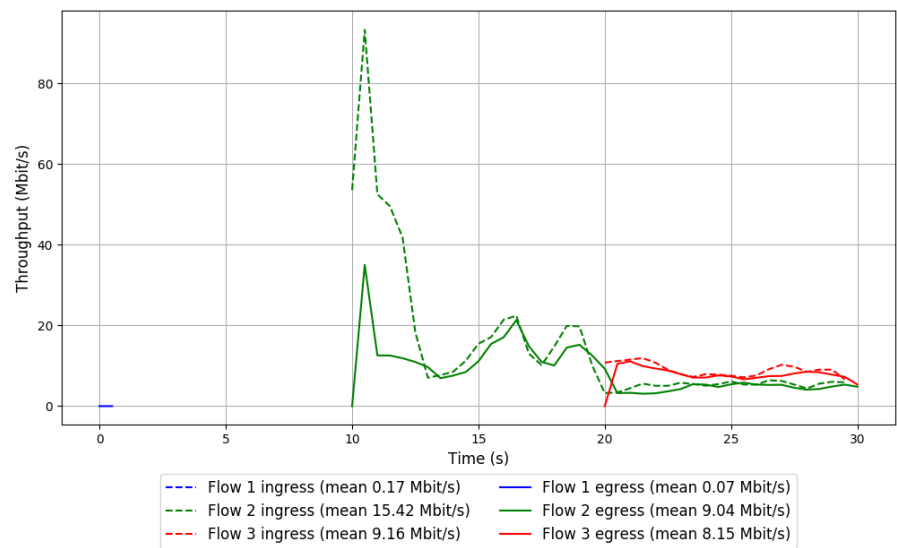


Run 3: Statistics of PCC-Expr

Start at: 2018-12-02 05:42:04
End at: 2018-12-02 05:42:34
Local clock offset: 0.353 ms
Remote clock offset: -1.625 ms

Below is generated by plot.py at 2018-12-02 06:44:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.70 Mbit/s
95th percentile per-packet one-way delay: 9.569 ms
Loss rate: 34.47%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 8.079 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 9.04 Mbit/s
95th percentile per-packet one-way delay: 9.641 ms
Loss rate: 41.39%
-- Flow 3:
Average throughput: 8.15 Mbit/s
95th percentile per-packet one-way delay: 9.465 ms
Loss rate: 11.00%

Run 3: Report of PCC-Expr — Data Link

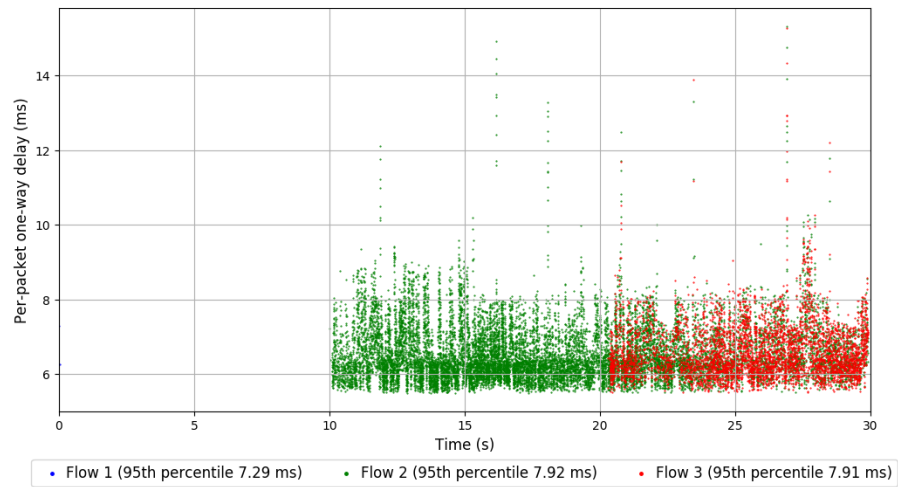
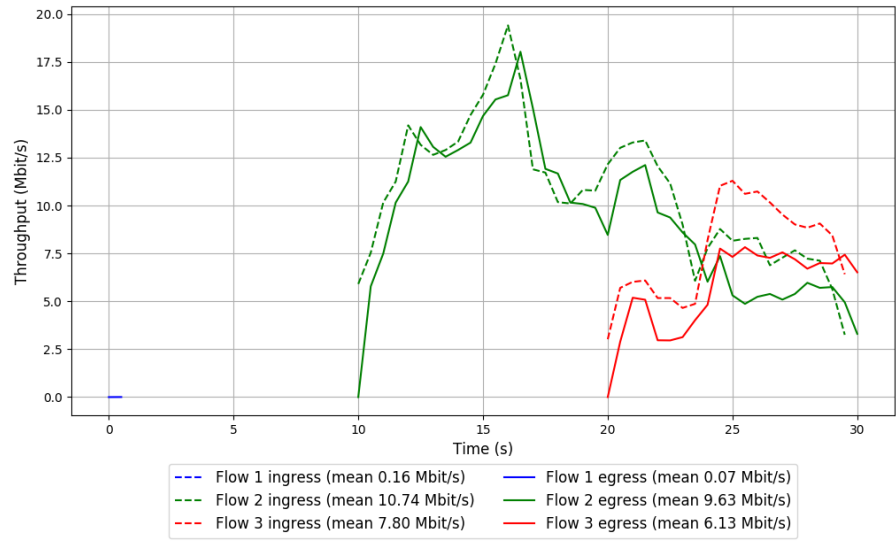


Run 4: Statistics of PCC-Expr

Start at: 2018-12-02 06:05:40
End at: 2018-12-02 06:06:10
Local clock offset: 2.629 ms
Remote clock offset: -1.445 ms

Below is generated by plot.py at 2018-12-02 06:44:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.38 Mbit/s
95th percentile per-packet one-way delay: 7.920 ms
Loss rate: 13.79%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 7.288 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 9.63 Mbit/s
95th percentile per-packet one-way delay: 7.922 ms
Loss rate: 10.32%
-- Flow 3:
Average throughput: 6.13 Mbit/s
95th percentile per-packet one-way delay: 7.908 ms
Loss rate: 23.39%

Run 4: Report of PCC-Expr — Data Link

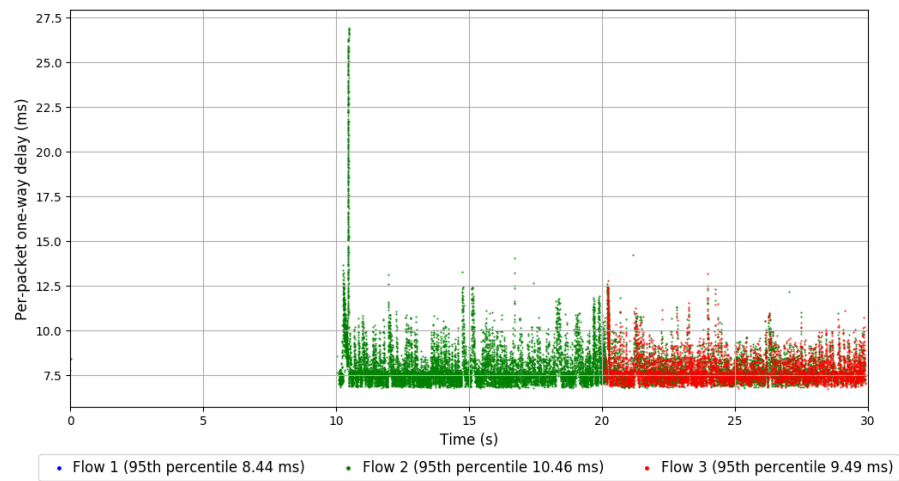
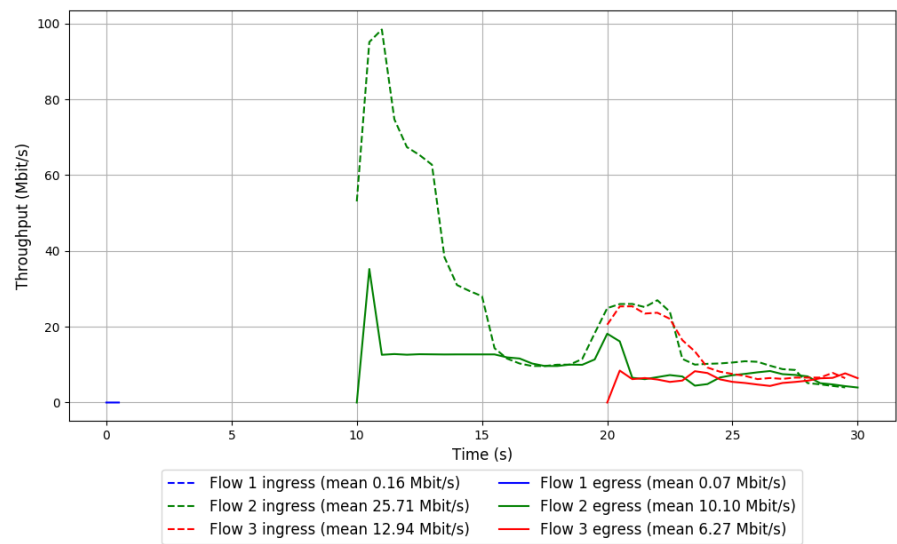


Run 5: Statistics of PCC-Expr

Start at: 2018-12-02 06:28:31
End at: 2018-12-02 06:29:01
Local clock offset: 1.459 ms
Remote clock offset: -1.815 ms

Below is generated by plot.py at 2018-12-02 06:44:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.79 Mbit/s
95th percentile per-packet one-way delay: 10.221 ms
Loss rate: 58.89%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 8.441 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 10.10 Mbit/s
95th percentile per-packet one-way delay: 10.464 ms
Loss rate: 60.72%
-- Flow 3:
Average throughput: 6.27 Mbit/s
95th percentile per-packet one-way delay: 9.491 ms
Loss rate: 51.55%

Run 5: Report of PCC-Expr — Data Link

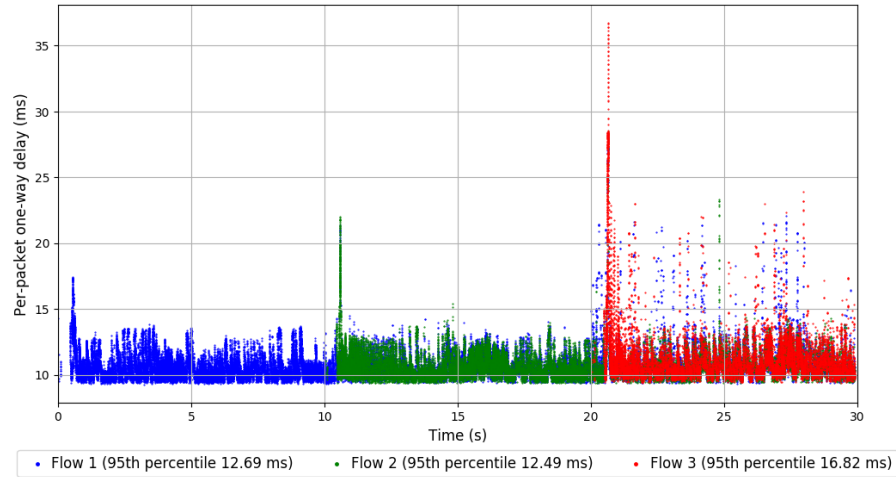
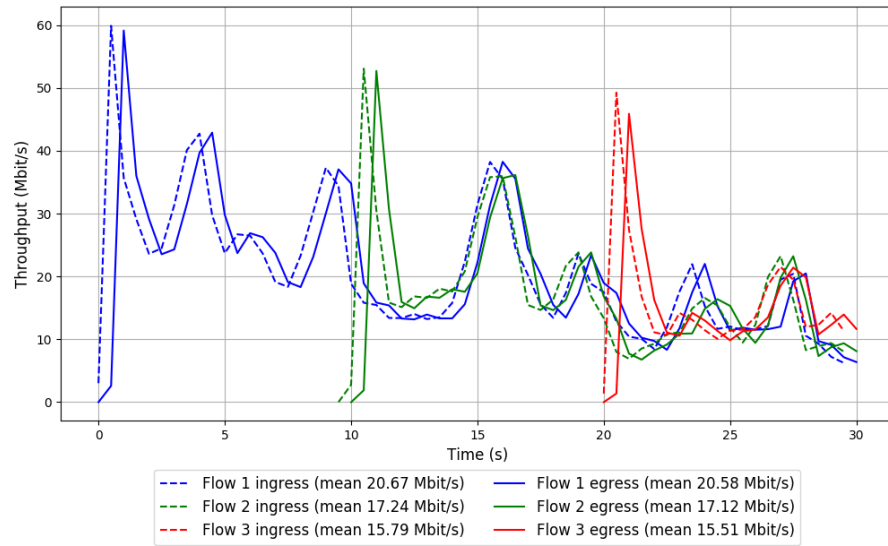


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-12-02 04:49:23
End at: 2018-12-02 04:49:53
Local clock offset: -1.014 ms
Remote clock offset: 0.849 ms

# Below is generated by plot.py at 2018-12-02 06:44:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.09 Mbit/s
95th percentile per-packet one-way delay: 12.896 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 20.58 Mbit/s
95th percentile per-packet one-way delay: 12.685 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 17.12 Mbit/s
95th percentile per-packet one-way delay: 12.490 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 15.51 Mbit/s
95th percentile per-packet one-way delay: 16.815 ms
Loss rate: 1.77%
```

Run 1: Report of QUIC Cubic — Data Link

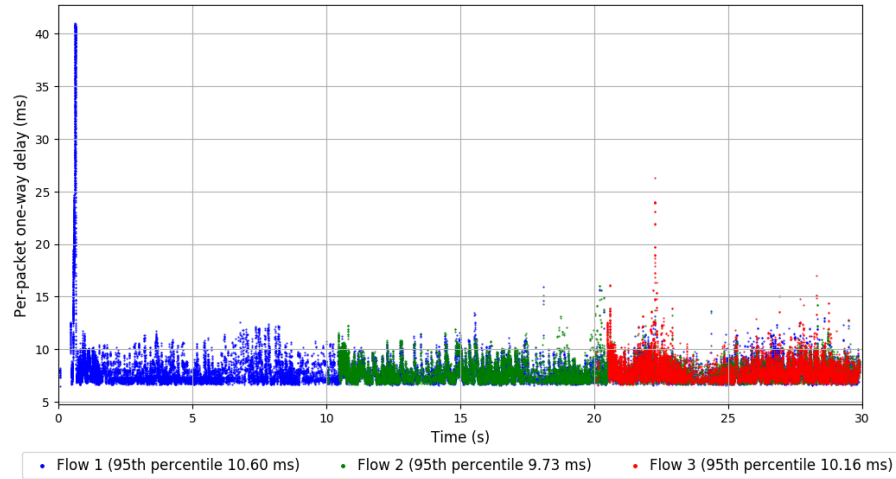
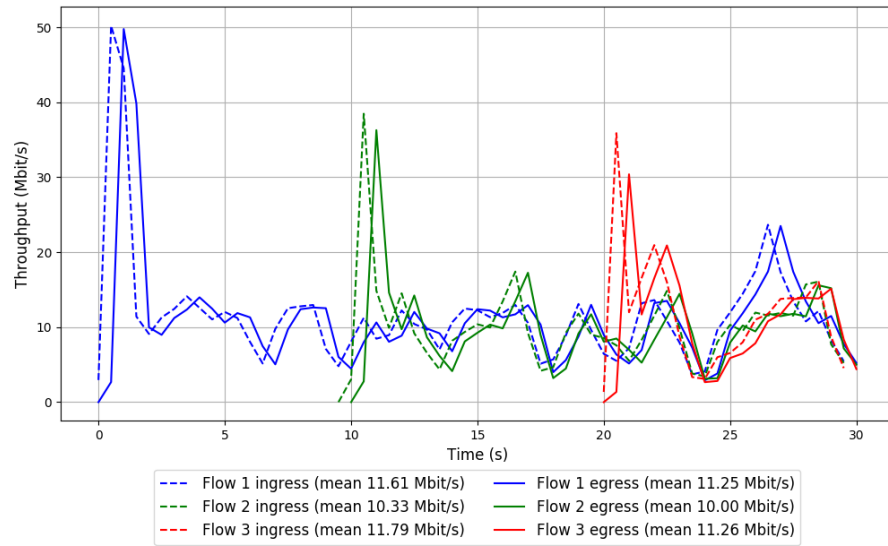


Run 2: Statistics of QUIC Cubic

Start at: 2018-12-02 05:12:20
End at: 2018-12-02 05:12:50
Local clock offset: 0.734 ms
Remote clock offset: -1.236 ms

Below is generated by plot.py at 2018-12-02 06:44:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 21.62 Mbit/s
95th percentile per-packet one-way delay: 10.106 ms
Loss rate: 3.34%
-- Flow 1:
Average throughput: 11.25 Mbit/s
95th percentile per-packet one-way delay: 10.600 ms
Loss rate: 3.06%
-- Flow 2:
Average throughput: 10.00 Mbit/s
95th percentile per-packet one-way delay: 9.731 ms
Loss rate: 3.15%
-- Flow 3:
Average throughput: 11.26 Mbit/s
95th percentile per-packet one-way delay: 10.164 ms
Loss rate: 4.50%

Run 2: Report of QUIC Cubic — Data Link

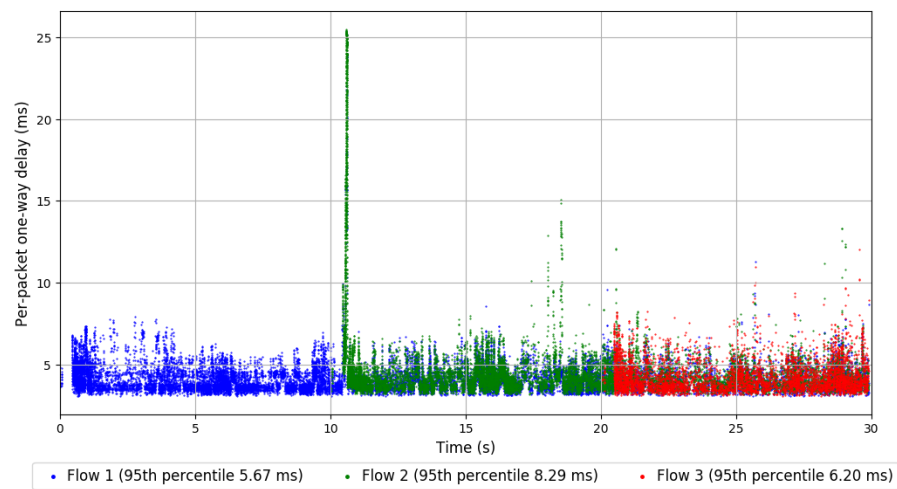
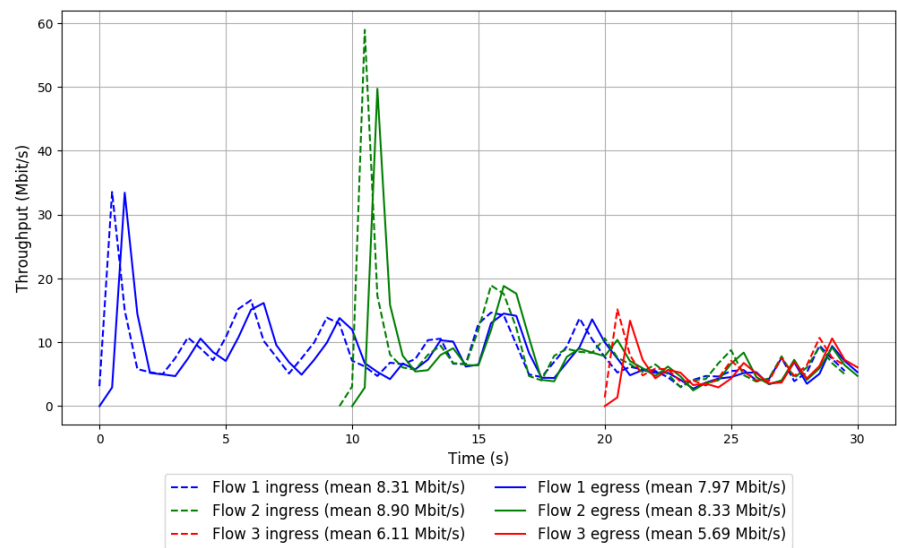


Run 3: Statistics of QUIC Cubic

Start at: 2018-12-02 05:34:51
End at: 2018-12-02 05:35:21
Local clock offset: 3.272 ms
Remote clock offset: -2.189 ms

Below is generated by plot.py at 2018-12-02 06:44:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 15.38 Mbit/s
95th percentile per-packet one-way delay: 6.169 ms
Loss rate: 5.30%
-- Flow 1:
Average throughput: 7.97 Mbit/s
95th percentile per-packet one-way delay: 5.666 ms
Loss rate: 4.12%
-- Flow 2:
Average throughput: 8.33 Mbit/s
95th percentile per-packet one-way delay: 8.287 ms
Loss rate: 6.43%
-- Flow 3:
Average throughput: 5.69 Mbit/s
95th percentile per-packet one-way delay: 6.201 ms
Loss rate: 6.88%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-12-02 05:57:50

End at: 2018-12-02 05:58:20

Local clock offset: 2.182 ms

Remote clock offset: 1.126 ms

Below is generated by plot.py at 2018-12-02 06:44:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 29.20 Mbit/s

95th percentile per-packet one-way delay: 14.332 ms

Loss rate: 3.17%

-- Flow 1:

Average throughput: 15.25 Mbit/s

95th percentile per-packet one-way delay: 20.943 ms

Loss rate: 2.58%

-- Flow 2:

Average throughput: 13.47 Mbit/s

95th percentile per-packet one-way delay: 11.235 ms

Loss rate: 2.34%

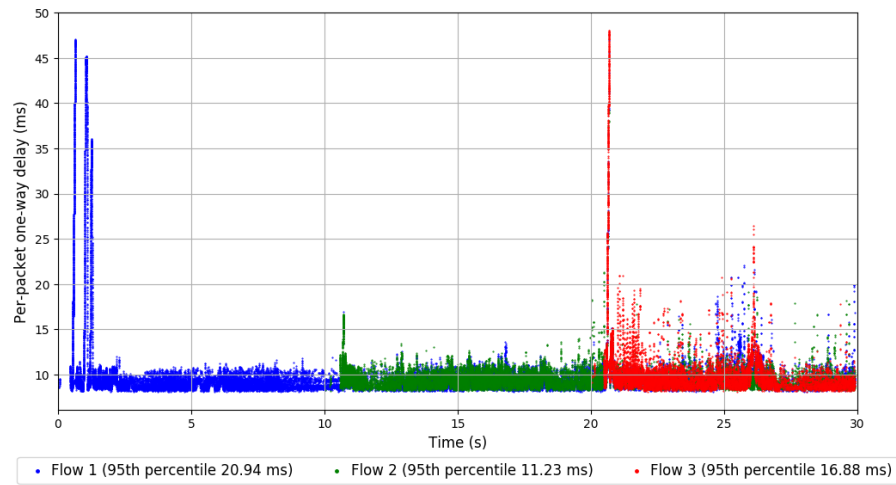
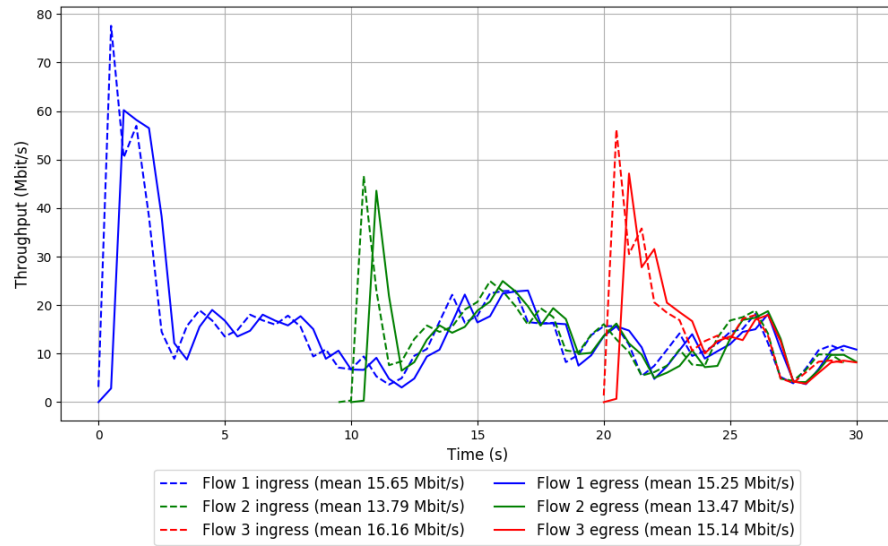
-- Flow 3:

Average throughput: 15.14 Mbit/s

95th percentile per-packet one-way delay: 16.877 ms

Loss rate: 6.33%

Run 4: Report of QUIC Cubic — Data Link

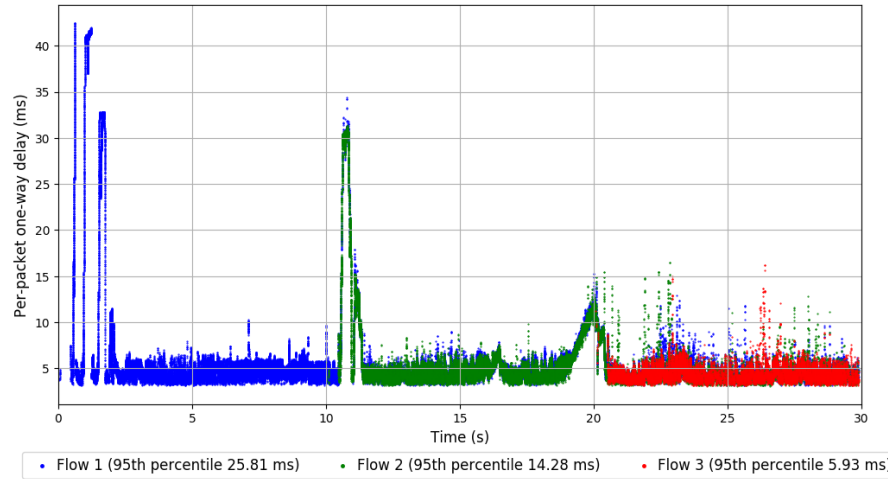
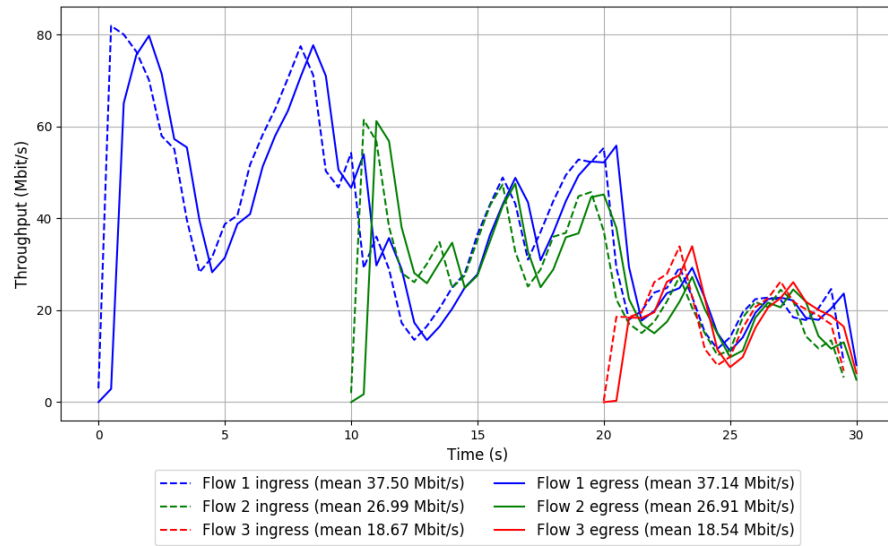


Run 5: Statistics of QUIC Cubic

Start at: 2018-12-02 06:21:18
End at: 2018-12-02 06:21:48
Local clock offset: 4.637 ms
Remote clock offset: -2.181 ms

Below is generated by plot.py at 2018-12-02 06:44:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 61.13 Mbit/s
95th percentile per-packet one-way delay: 15.436 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 37.14 Mbit/s
95th percentile per-packet one-way delay: 25.813 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 26.91 Mbit/s
95th percentile per-packet one-way delay: 14.281 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 18.54 Mbit/s
95th percentile per-packet one-way delay: 5.930 ms
Loss rate: 0.78%

Run 5: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2018-12-02 04:47:02

End at: 2018-12-02 04:47:32

Local clock offset: -0.501 ms

Remote clock offset: 0.954 ms

Below is generated by plot.py at 2018-12-02 06:44:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 12.069 ms

Loss rate: 1.64%

-- Flow 1:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 12.355 ms

Loss rate: 1.54%

-- Flow 2:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 12.059 ms

Loss rate: 2.07%

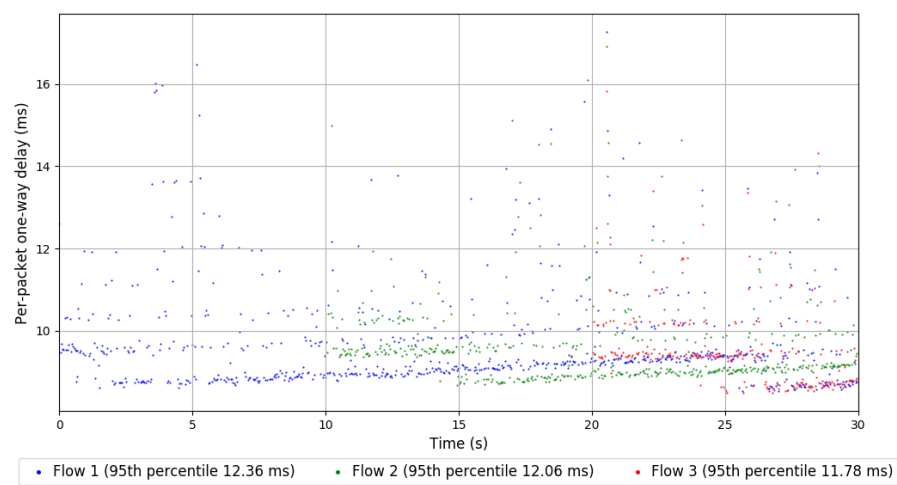
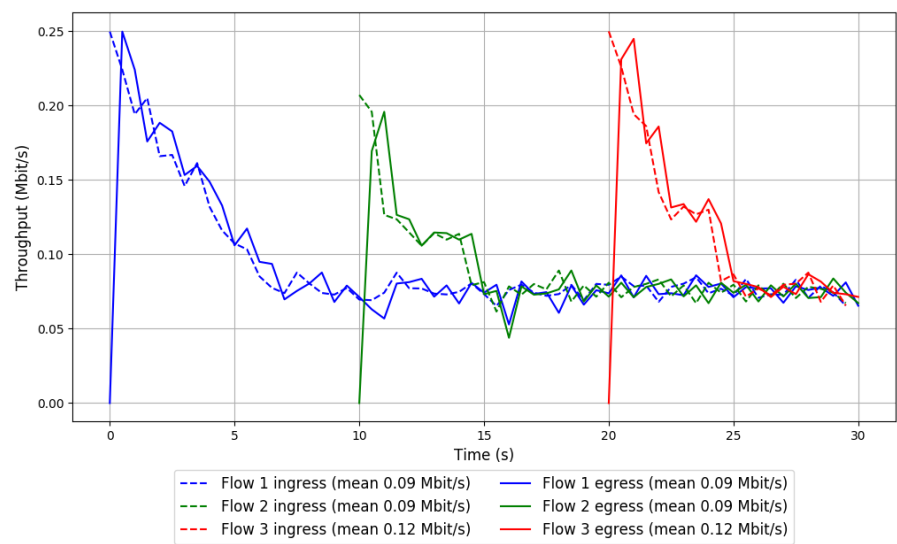
-- Flow 3:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 11.776 ms

Loss rate: 1.23%

Run 1: Report of SReAM — Data Link

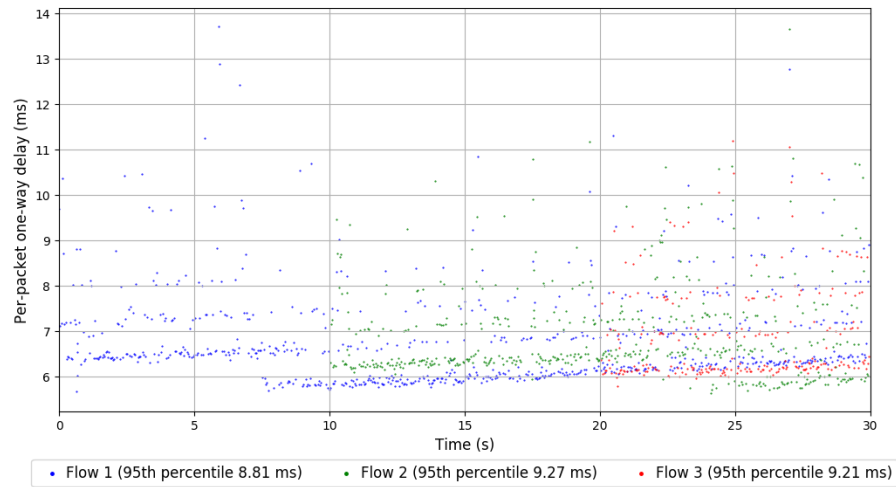
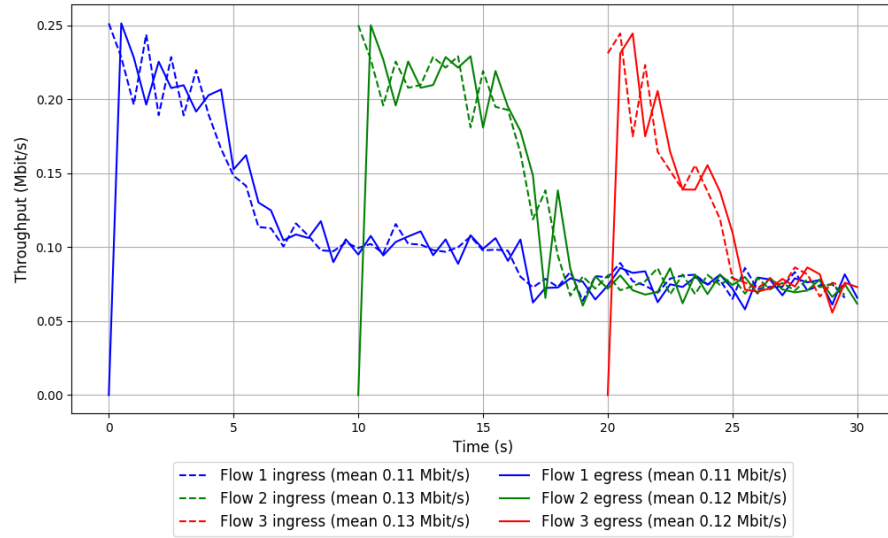


Run 2: Statistics of SCReAM

Start at: 2018-12-02 05:09:58
End at: 2018-12-02 05:10:28
Local clock offset: 1.148 ms
Remote clock offset: -1.778 ms

Below is generated by plot.py at 2018-12-02 06:44:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 9.055 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 8.811 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 9.274 ms
Loss rate: 2.71%
-- Flow 3:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 9.215 ms
Loss rate: 2.56%

Run 2: Report of SReAM — Data Link

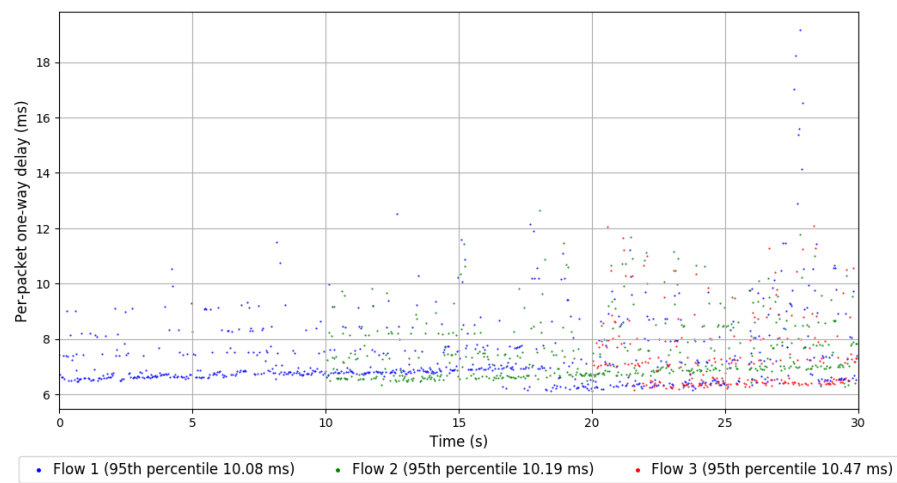
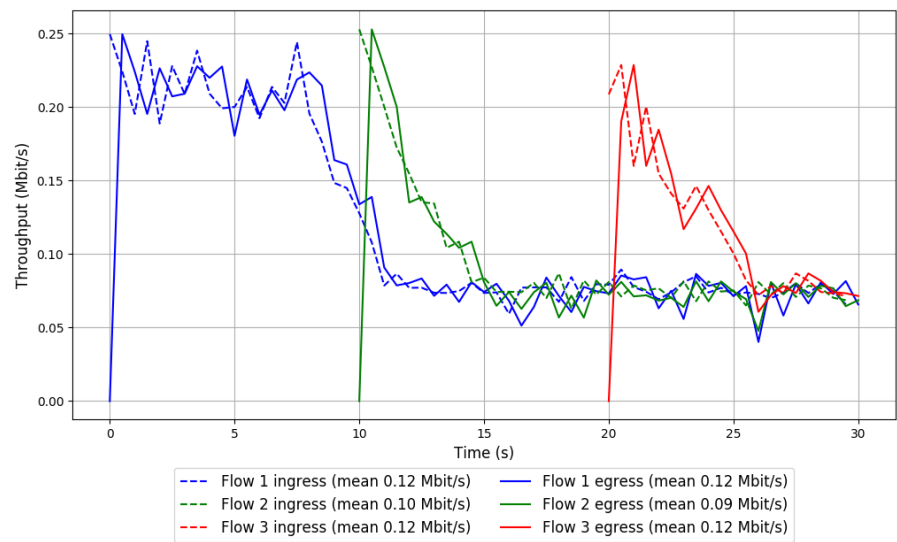


Run 3: Statistics of SCReAM

Start at: 2018-12-02 05:32:28
End at: 2018-12-02 05:32:58
Local clock offset: 0.836 ms
Remote clock offset: -1.621 ms

Below is generated by plot.py at 2018-12-02 06:44:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 10.213 ms
Loss rate: 2.94%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 10.081 ms
Loss rate: 1.49%
-- Flow 2:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 10.185 ms
Loss rate: 5.43%
-- Flow 3:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 10.468 ms
Loss rate: 3.32%

Run 3: Report of SReAM — Data Link

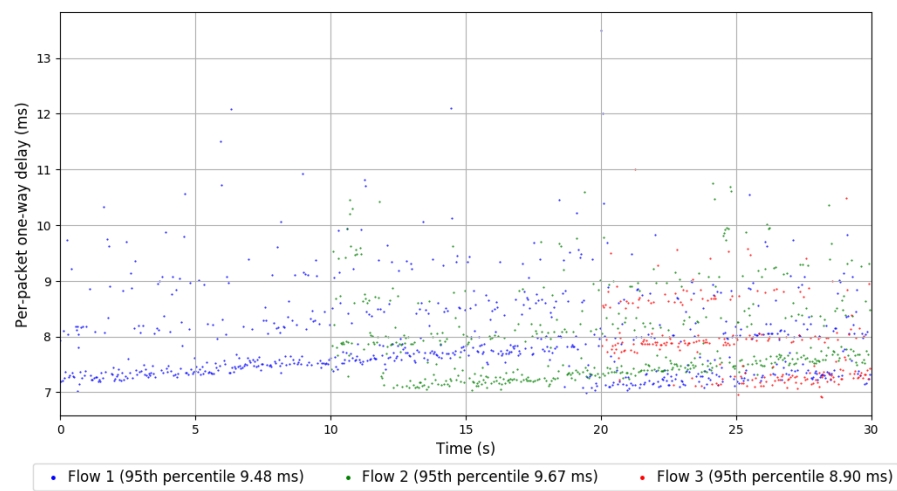
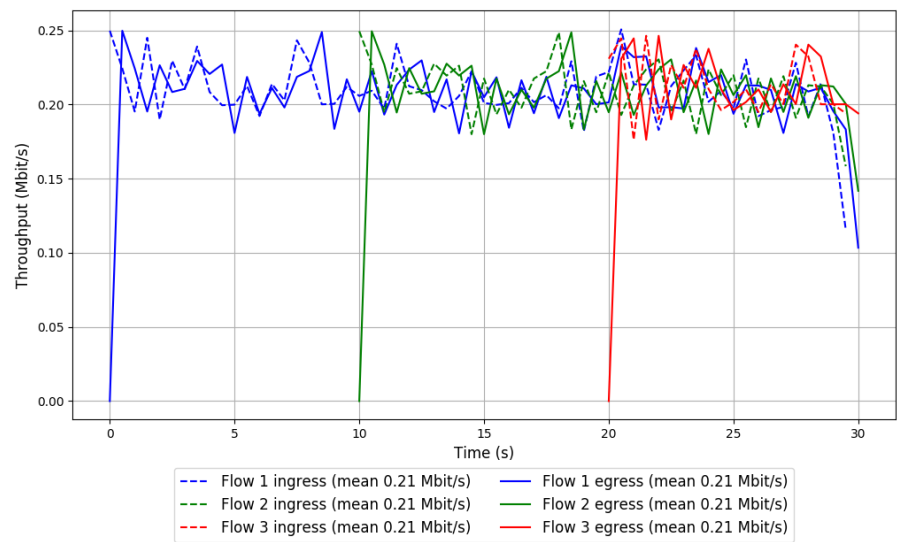


Run 4: Statistics of SReAM

Start at: 2018-12-02 05:55:25
End at: 2018-12-02 05:55:55
Local clock offset: 0.844 ms
Remote clock offset: -1.436 ms

Below is generated by plot.py at 2018-12-02 06:44:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 9.496 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 9.483 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 9.671 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 8.902 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

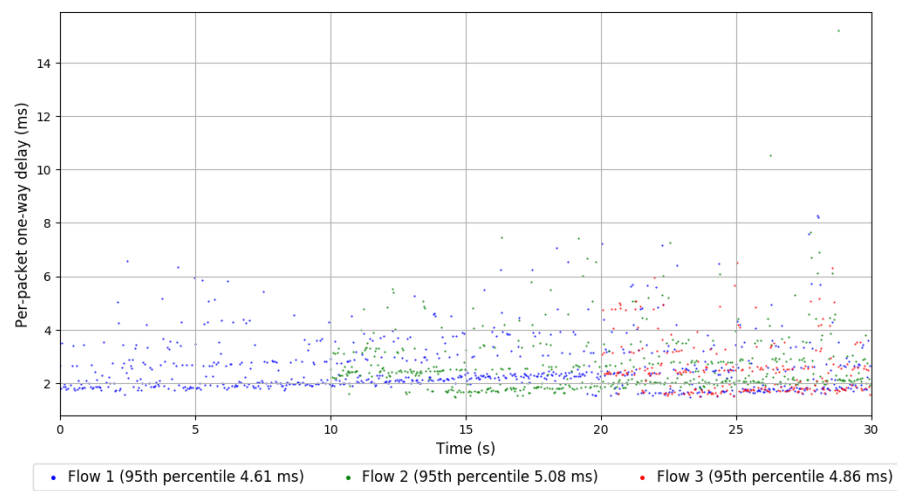
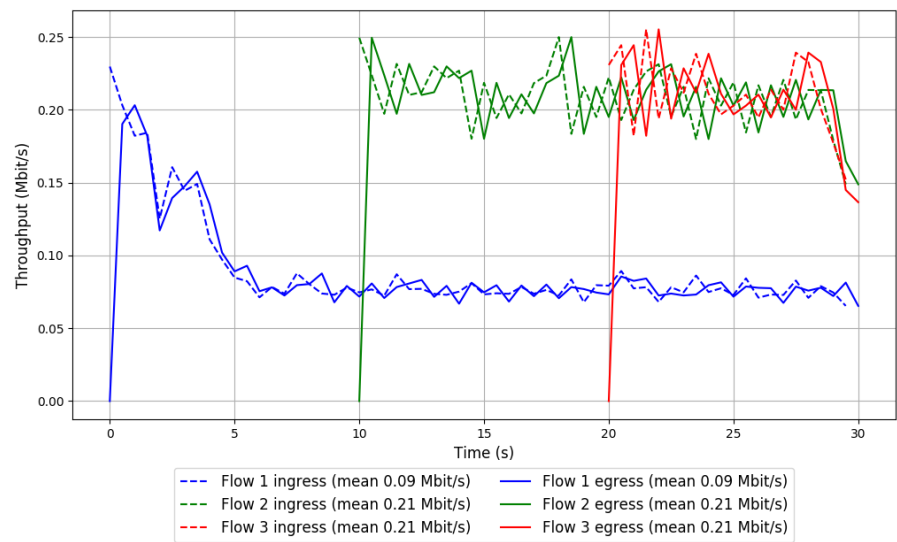


Run 5: Statistics of SReAM

Start at: 2018-12-02 06:18:58
End at: 2018-12-02 06:19:28
Local clock offset: 5.451 ms
Remote clock offset: -2.987 ms

Below is generated by plot.py at 2018-12-02 06:44:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 4.828 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 4.609 ms
Loss rate: 2.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 5.077 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 4.856 ms
Loss rate: 1.14%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-12-02 04:57:54

End at: 2018-12-02 04:58:24

Local clock offset: 2.308 ms

Remote clock offset: -2.49 ms

Below is generated by plot.py at 2018-12-02 06:44:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.73 Mbit/s

95th percentile per-packet one-way delay: 12.006 ms

Loss rate: 8.70%

-- Flow 1:

Average throughput: 21.01 Mbit/s

95th percentile per-packet one-way delay: 11.905 ms

Loss rate: 8.07%

-- Flow 2:

Average throughput: 20.32 Mbit/s

95th percentile per-packet one-way delay: 11.477 ms

Loss rate: 8.70%

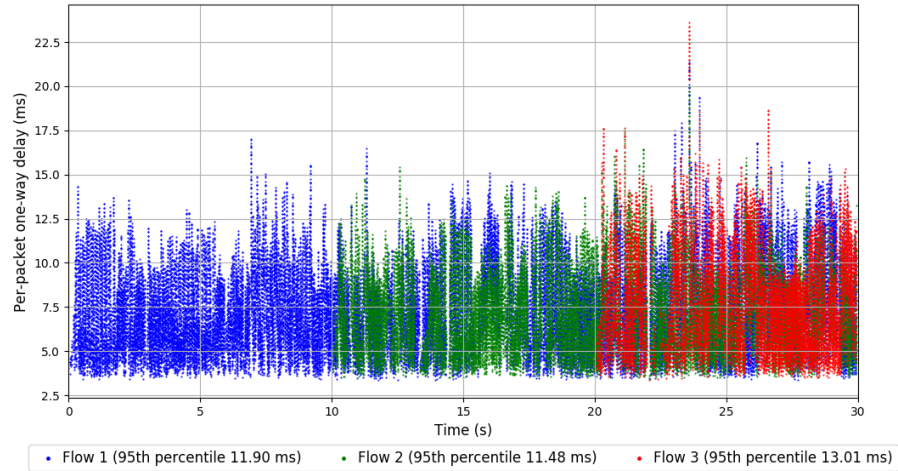
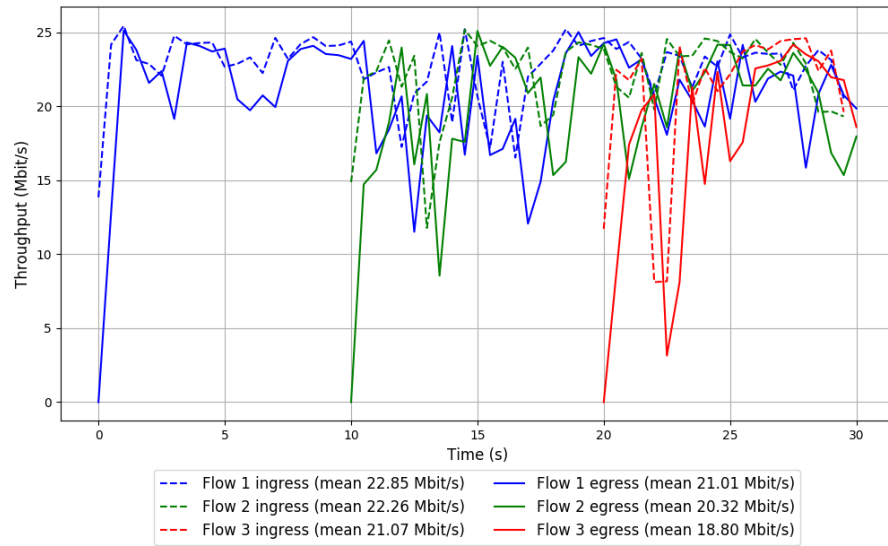
-- Flow 3:

Average throughput: 18.80 Mbit/s

95th percentile per-packet one-way delay: 13.014 ms

Loss rate: 10.75%

Run 1: Report of Sprout — Data Link

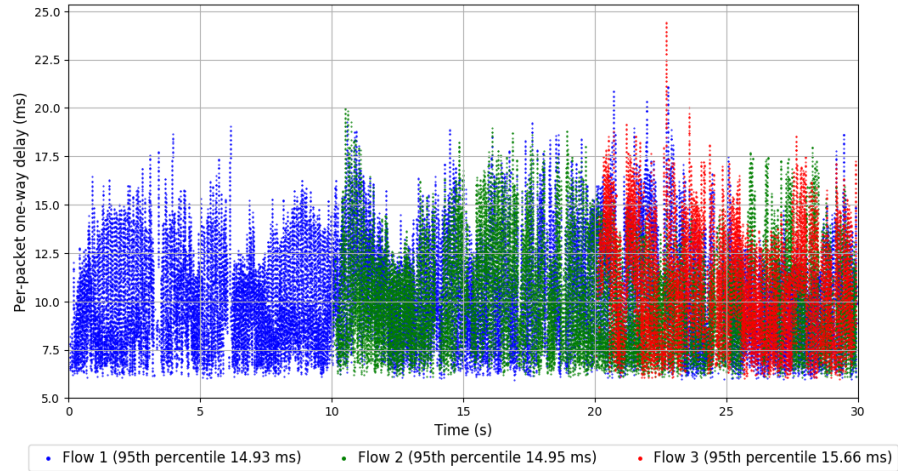
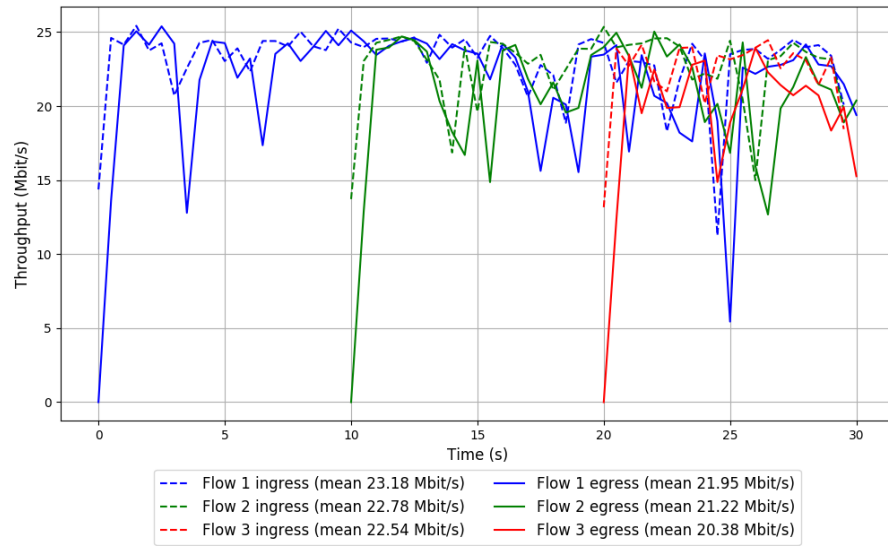


Run 2: Statistics of Sprout

Start at: 2018-12-02 05:20:44
End at: 2018-12-02 05:21:14
Local clock offset: 0.779 ms
Remote clock offset: -1.863 ms

```
# Below is generated by plot.py at 2018-12-02 06:44:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.78 Mbit/s
95th percentile per-packet one-way delay: 15.084 ms
Loss rate: 6.52%
-- Flow 1:
Average throughput: 21.95 Mbit/s
95th percentile per-packet one-way delay: 14.929 ms
Loss rate: 5.31%
-- Flow 2:
Average throughput: 21.22 Mbit/s
95th percentile per-packet one-way delay: 14.951 ms
Loss rate: 6.84%
-- Flow 3:
Average throughput: 20.38 Mbit/s
95th percentile per-packet one-way delay: 15.665 ms
Loss rate: 9.68%
```

Run 2: Report of Sprout — Data Link

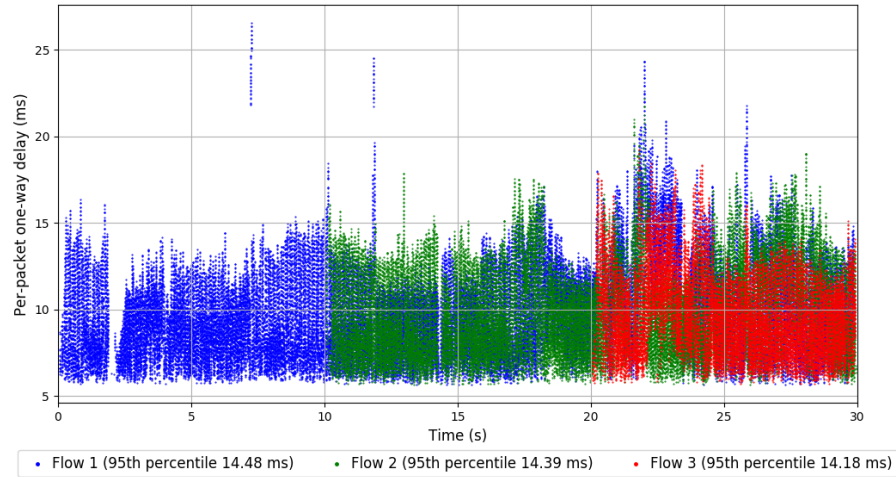
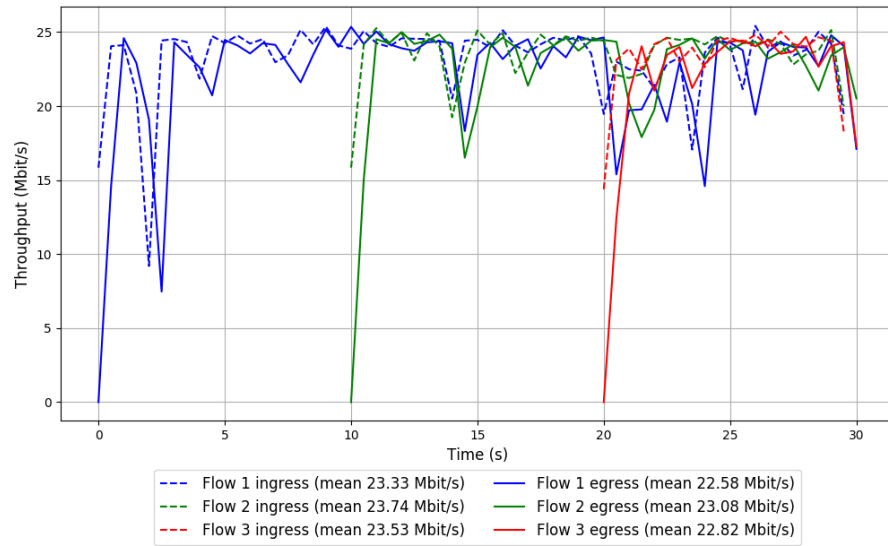


Run 3: Statistics of Sprout

Start at: 2018-12-02 05:43:14
End at: 2018-12-02 05:43:44
Local clock offset: 0.937 ms
Remote clock offset: -2.051 ms

```
# Below is generated by plot.py at 2018-12-02 06:44:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 45.41 Mbit/s
95th percentile per-packet one-way delay: 14.394 ms
Loss rate: 3.13%
-- Flow 1:
Average throughput: 22.58 Mbit/s
95th percentile per-packet one-way delay: 14.480 ms
Loss rate: 3.39%
-- Flow 2:
Average throughput: 23.08 Mbit/s
95th percentile per-packet one-way delay: 14.392 ms
Loss rate: 2.80%
-- Flow 3:
Average throughput: 22.82 Mbit/s
95th percentile per-packet one-way delay: 14.179 ms
Loss rate: 3.01%
```

Run 3: Report of Sprout — Data Link

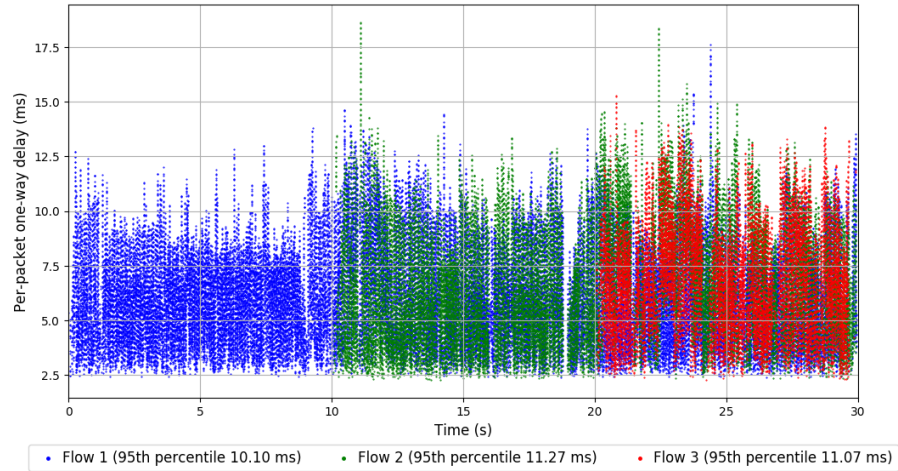
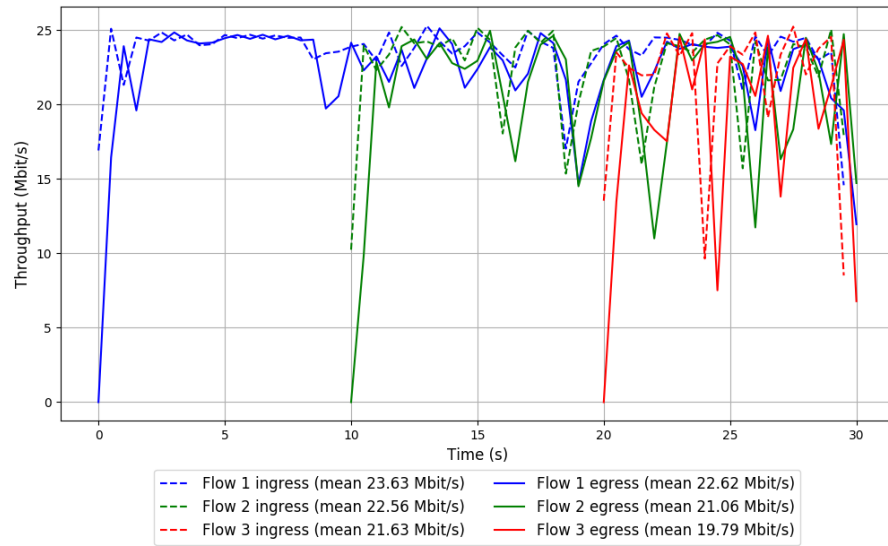


Run 4: Statistics of Sprout

Start at: 2018-12-02 06:06:48
End at: 2018-12-02 06:07:18
Local clock offset: 5.368 ms
Remote clock offset: -1.916 ms

Below is generated by plot.py at 2018-12-02 06:44:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 43.14 Mbit/s
95th percentile per-packet one-way delay: 10.697 ms
Loss rate: 5.76%
-- Flow 1:
Average throughput: 22.62 Mbit/s
95th percentile per-packet one-way delay: 10.097 ms
Loss rate: 4.26%
-- Flow 2:
Average throughput: 21.06 Mbit/s
95th percentile per-packet one-way delay: 11.266 ms
Loss rate: 6.83%
-- Flow 3:
Average throughput: 19.79 Mbit/s
95th percentile per-packet one-way delay: 11.071 ms
Loss rate: 8.44%

Run 4: Report of Sprout — Data Link

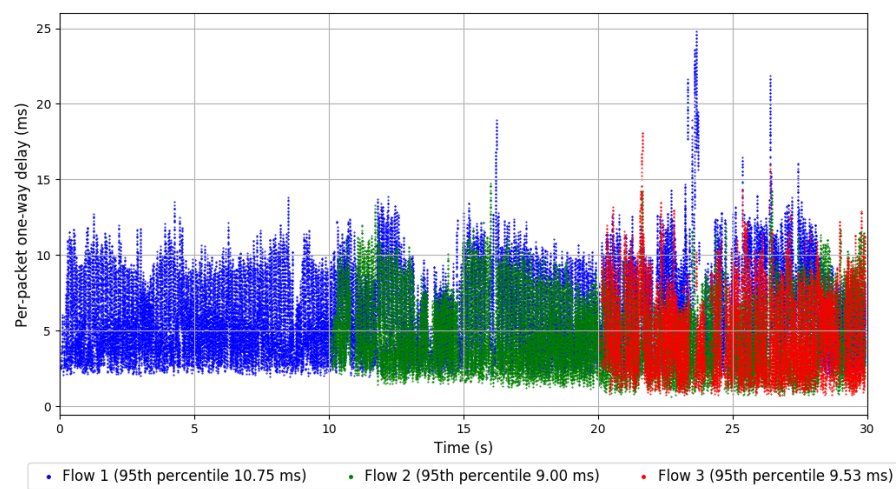
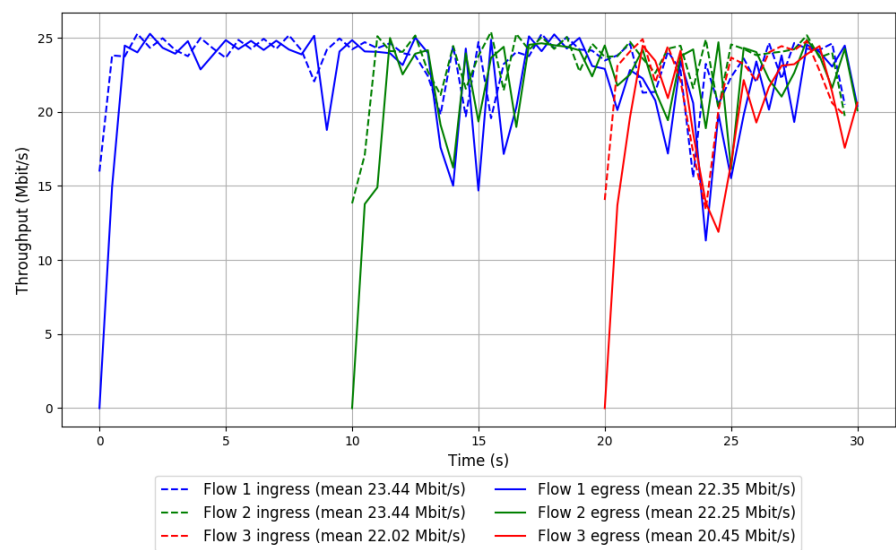


Run 5: Statistics of Sprout

Start at: 2018-12-02 06:29:39
End at: 2018-12-02 06:30:09
Local clock offset: 4.445 ms
Remote clock offset: -3.627 ms

Below is generated by plot.py at 2018-12-02 06:44:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 43.91 Mbit/s
95th percentile per-packet one-way delay: 10.149 ms
Loss rate: 5.16%
-- Flow 1:
Average throughput: 22.35 Mbit/s
95th percentile per-packet one-way delay: 10.752 ms
Loss rate: 4.63%
-- Flow 2:
Average throughput: 22.25 Mbit/s
95th percentile per-packet one-way delay: 8.997 ms
Loss rate: 5.07%
-- Flow 3:
Average throughput: 20.45 Mbit/s
95th percentile per-packet one-way delay: 9.534 ms
Loss rate: 7.02%

Run 5: Report of Sprout — Data Link

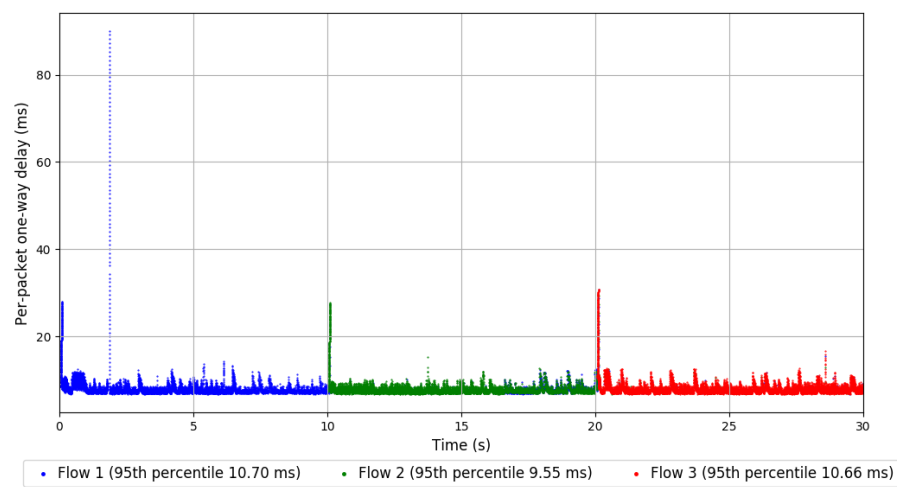
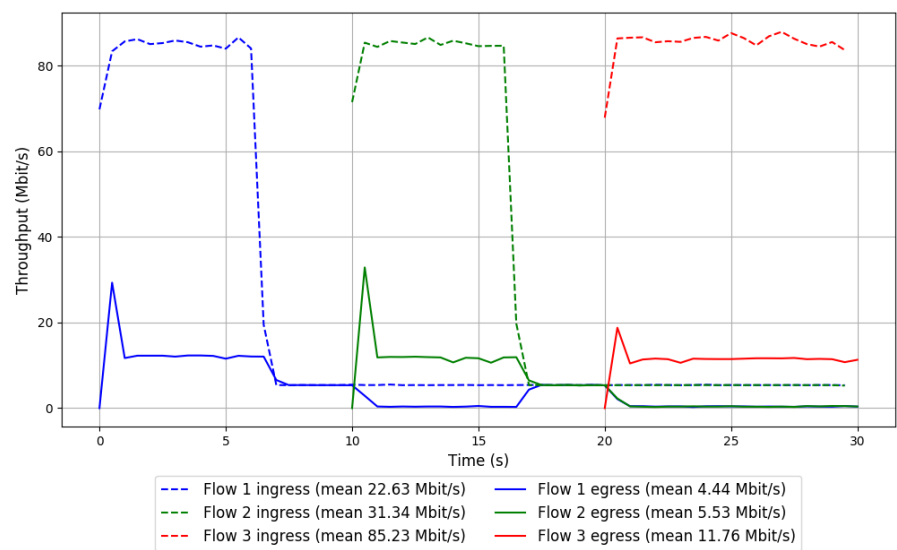


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-12-02 05:01:40
End at: 2018-12-02 05:02:10
Local clock offset: 0.147 ms
Remote clock offset: -1.565 ms

# Below is generated by plot.py at 2018-12-02 06:44:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.04 Mbit/s
95th percentile per-packet one-way delay: 10.428 ms
Loss rate: 83.25%
-- Flow 1:
Average throughput: 4.44 Mbit/s
95th percentile per-packet one-way delay: 10.698 ms
Loss rate: 80.37%
-- Flow 2:
Average throughput: 5.53 Mbit/s
95th percentile per-packet one-way delay: 9.549 ms
Loss rate: 82.37%
-- Flow 3:
Average throughput: 11.76 Mbit/s
95th percentile per-packet one-way delay: 10.665 ms
Loss rate: 86.20%
```

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

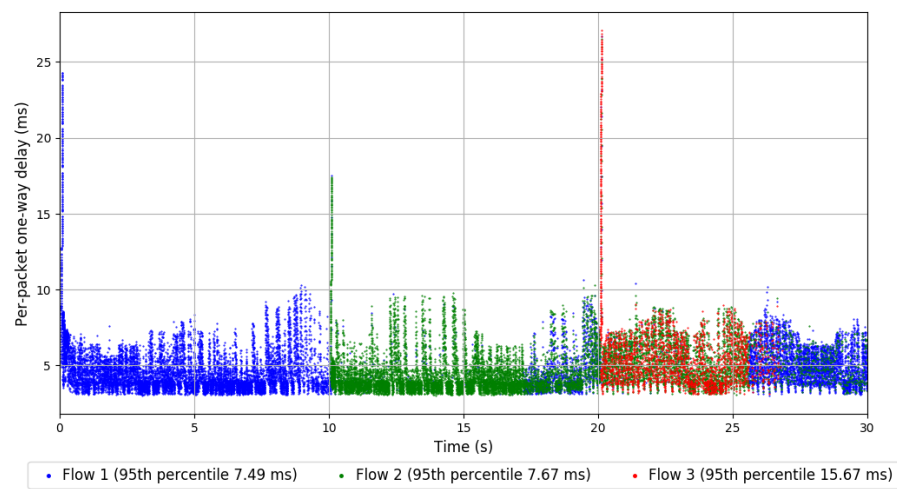
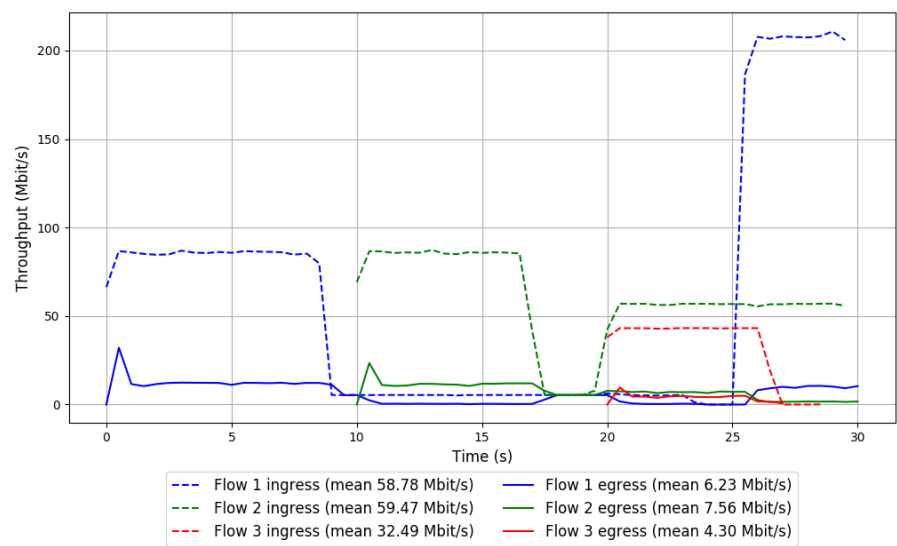


Run 2: Statistics of TaoVA-100x

Start at: 2018-12-02 05:24:22
End at: 2018-12-02 05:24:52
Local clock offset: 3.693 ms
Remote clock offset: -1.944 ms

Below is generated by plot.py at 2018-12-02 06:44:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.24 Mbit/s
95th percentile per-packet one-way delay: 7.747 ms
Loss rate: 88.66%
-- Flow 1:
Average throughput: 6.23 Mbit/s
95th percentile per-packet one-way delay: 7.485 ms
Loss rate: 89.40%
-- Flow 2:
Average throughput: 7.56 Mbit/s
95th percentile per-packet one-way delay: 7.666 ms
Loss rate: 87.30%
-- Flow 3:
Average throughput: 4.30 Mbit/s
95th percentile per-packet one-way delay: 15.668 ms
Loss rate: 89.81%

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

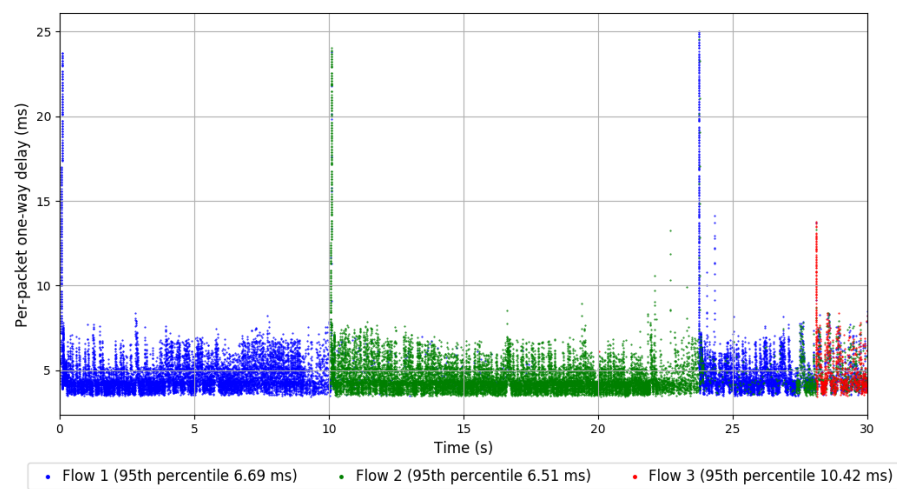
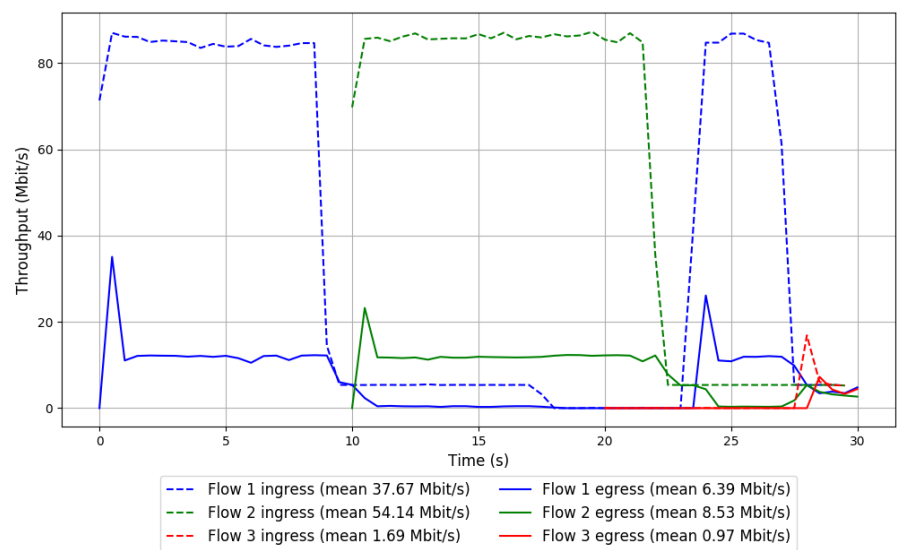


Run 3: Statistics of TaoVA-100x

Start at: 2018-12-02 05:47:05
End at: 2018-12-02 05:47:35
Local clock offset: 3.431 ms
Remote clock offset: -1.723 ms

Below is generated by plot.py at 2018-12-02 06:44:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.39 Mbit/s
95th percentile per-packet one-way delay: 6.667 ms
Loss rate: 83.32%
-- Flow 1:
Average throughput: 6.39 Mbit/s
95th percentile per-packet one-way delay: 6.692 ms
Loss rate: 83.04%
-- Flow 2:
Average throughput: 8.53 Mbit/s
95th percentile per-packet one-way delay: 6.507 ms
Loss rate: 84.25%
-- Flow 3:
Average throughput: 0.97 Mbit/s
95th percentile per-packet one-way delay: 10.423 ms
Loss rate: 42.76%

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

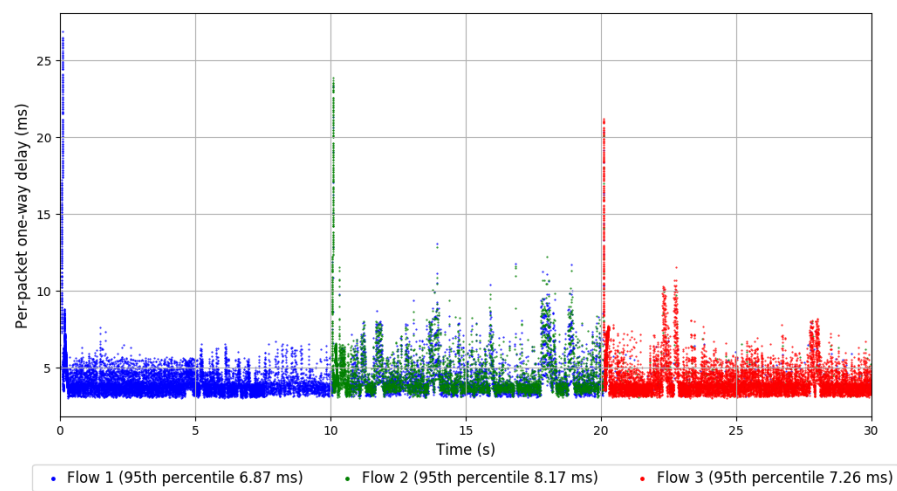
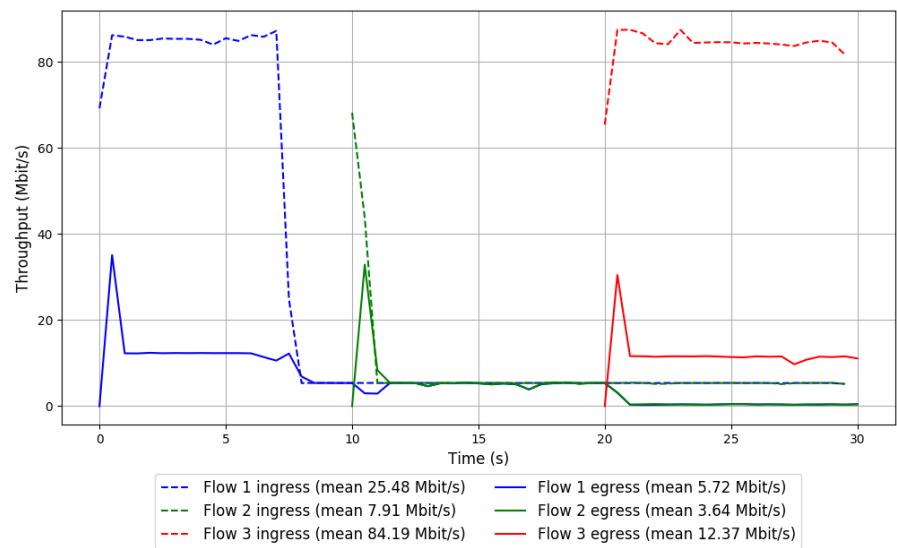


Run 4: Statistics of TaoVA-100x

Start at: 2018-12-02 06:10:32
End at: 2018-12-02 06:11:02
Local clock offset: 4.378 ms
Remote clock offset: -2.284 ms

Below is generated by plot.py at 2018-12-02 06:44:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.25 Mbit/s
95th percentile per-packet one-way delay: 7.255 ms
Loss rate: 79.13%
-- Flow 1:
Average throughput: 5.72 Mbit/s
95th percentile per-packet one-way delay: 6.865 ms
Loss rate: 77.57%
-- Flow 2:
Average throughput: 3.64 Mbit/s
95th percentile per-packet one-way delay: 8.169 ms
Loss rate: 53.93%
-- Flow 3:
Average throughput: 12.37 Mbit/s
95th percentile per-packet one-way delay: 7.265 ms
Loss rate: 85.30%

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

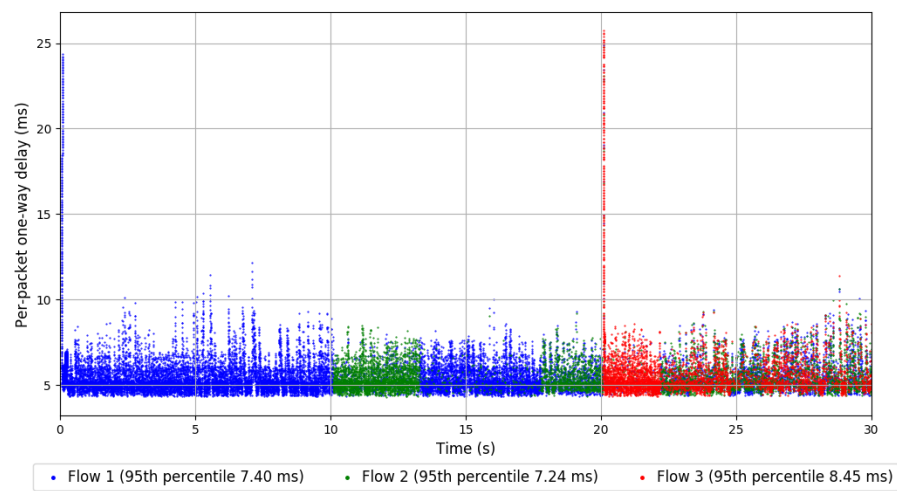
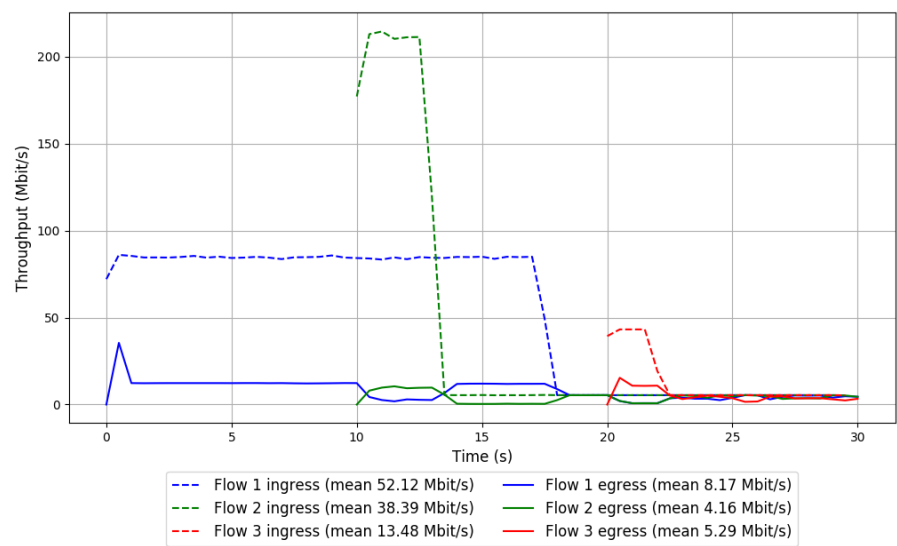


Run 5: Statistics of TaoVA-100x

Start at: 2018-12-02 06:33:11
End at: 2018-12-02 06:33:41
Local clock offset: 4.042 ms
Remote clock offset: -1.761 ms

Below is generated by plot.py at 2018-12-02 06:45:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.70 Mbit/s
95th percentile per-packet one-way delay: 7.460 ms
Loss rate: 84.55%
-- Flow 1:
Average throughput: 8.17 Mbit/s
95th percentile per-packet one-way delay: 7.398 ms
Loss rate: 84.32%
-- Flow 2:
Average throughput: 4.16 Mbit/s
95th percentile per-packet one-way delay: 7.243 ms
Loss rate: 89.17%
-- Flow 3:
Average throughput: 5.29 Mbit/s
95th percentile per-packet one-way delay: 8.452 ms
Loss rate: 60.76%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-12-02 04:43:25

End at: 2018-12-02 04:43:55

Local clock offset: 0.723 ms

Remote clock offset: 0.38 ms

Below is generated by plot.py at 2018-12-02 06:45:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.68 Mbit/s

95th percentile per-packet one-way delay: 14.375 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 31.38 Mbit/s

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

Loss rate: 0.50%

-- Flow 2:

Average throughput: 18.03 Mbit/s

95th percentile per-packet one-way delay: 9.887 ms

Loss rate: 0.12%

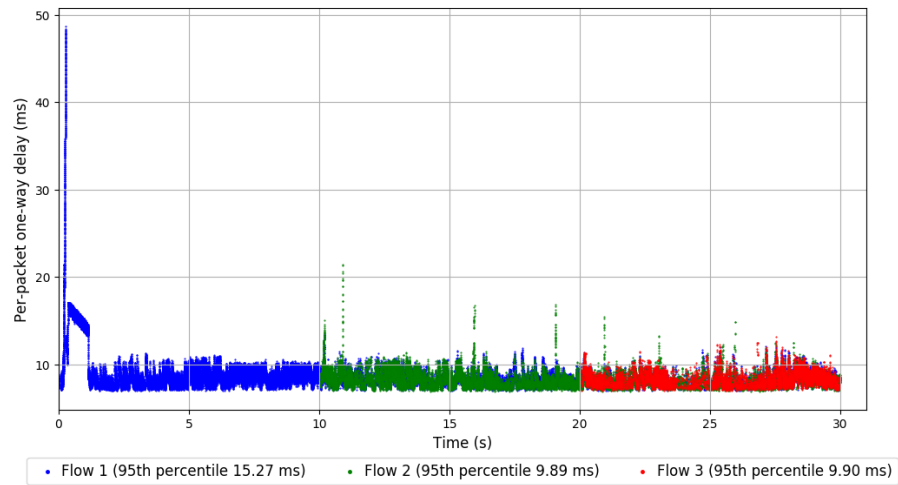
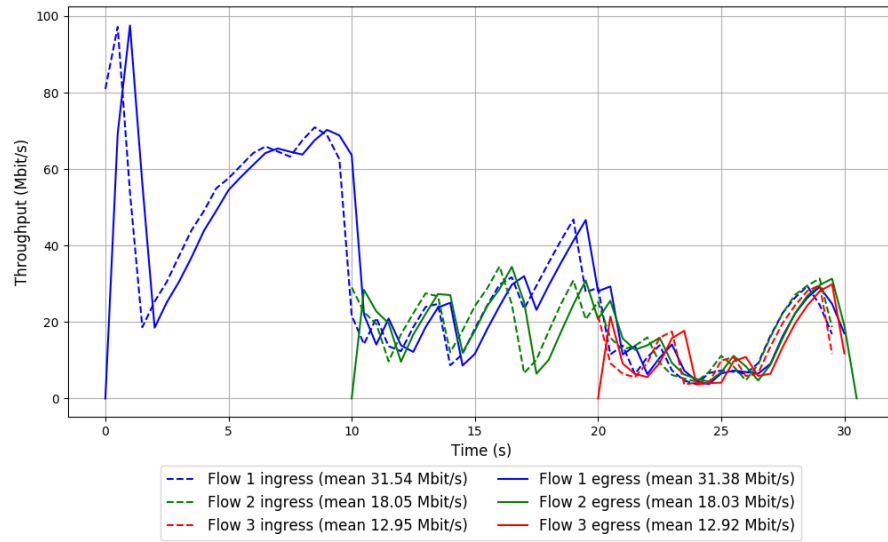
-- Flow 3:

Average throughput: 12.92 Mbit/s

95th percentile per-packet one-way delay: 9.896 ms

Loss rate: 0.25%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-12-02 05:06:27

End at: 2018-12-02 05:06:57

Local clock offset: 0.427 ms

Remote clock offset: -1.1 ms

Below is generated by plot.py at 2018-12-02 06:45:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.01 Mbit/s

95th percentile per-packet one-way delay: 13.649 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 24.54 Mbit/s

95th percentile per-packet one-way delay: 16.569 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 18.35 Mbit/s

95th percentile per-packet one-way delay: 10.905 ms

Loss rate: 0.10%

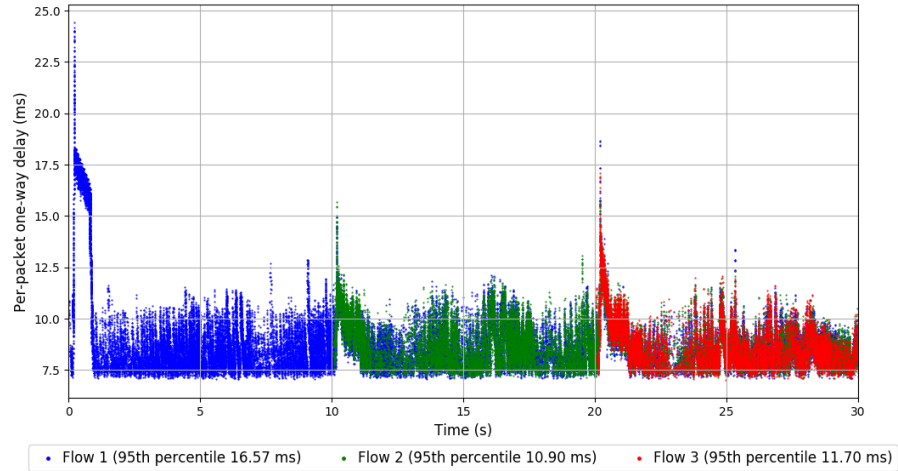
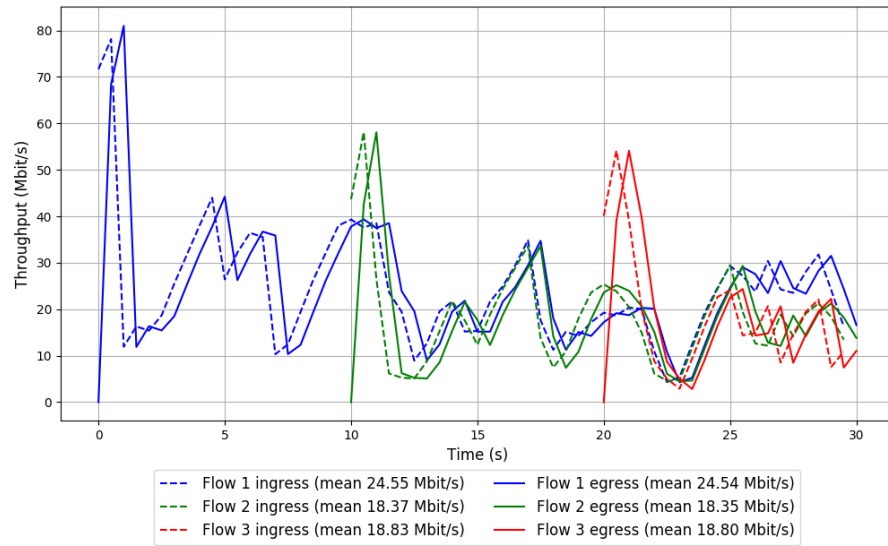
-- Flow 3:

Average throughput: 18.80 Mbit/s

95th percentile per-packet one-way delay: 11.699 ms

Loss rate: 0.14%

Run 2: Report of TCP Vegas — Data Link

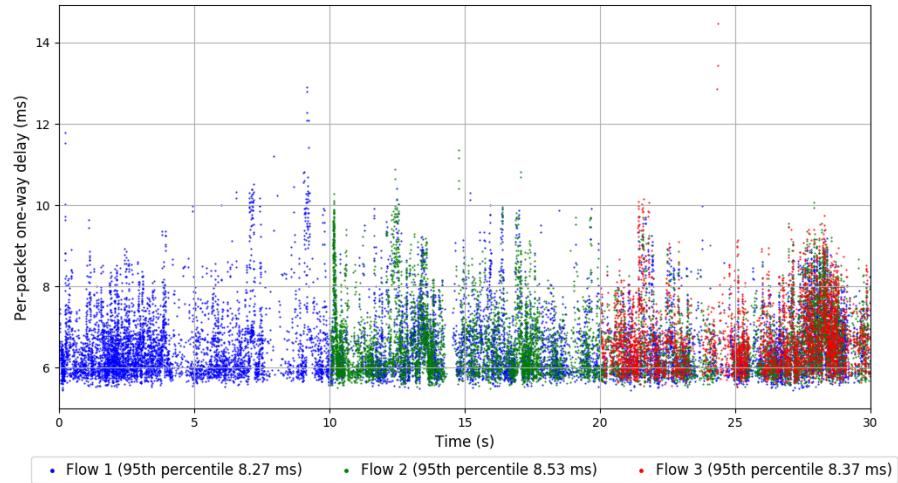
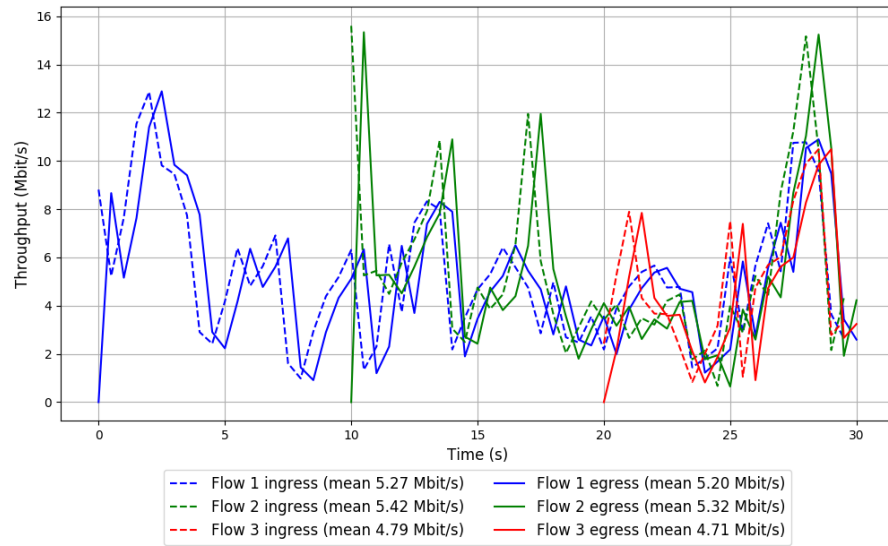


Run 3: Statistics of TCP Vegas

Start at: 2018-12-02 05:28:59
End at: 2018-12-02 05:29:29
Local clock offset: 1.602 ms
Remote clock offset: -1.586 ms

Below is generated by plot.py at 2018-12-02 06:45:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 10.31 Mbit/s
95th percentile per-packet one-way delay: 8.379 ms
Loss rate: 1.64%
-- Flow 1:
Average throughput: 5.20 Mbit/s
95th percentile per-packet one-way delay: 8.273 ms
Loss rate: 1.46%
-- Flow 2:
Average throughput: 5.32 Mbit/s
95th percentile per-packet one-way delay: 8.526 ms
Loss rate: 1.84%
-- Flow 3:
Average throughput: 4.71 Mbit/s
95th percentile per-packet one-way delay: 8.367 ms
Loss rate: 1.76%

Run 3: Report of TCP Vegas — Data Link

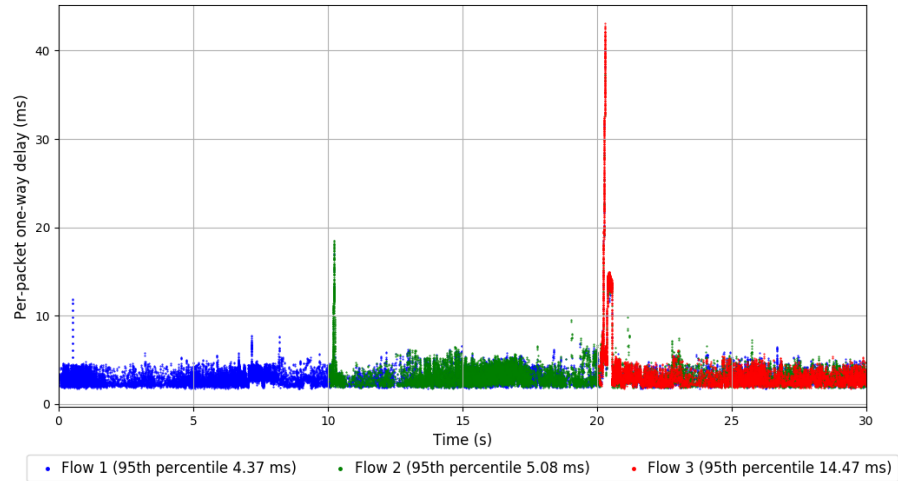
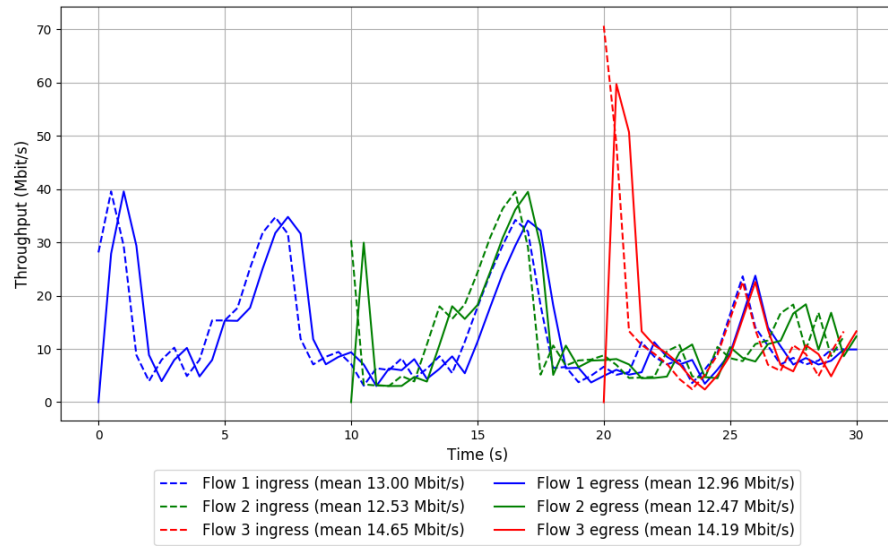


Run 4: Statistics of TCP Vegas

Start at: 2018-12-02 05:51:49
End at: 2018-12-02 05:52:19
Local clock offset: 4.152 ms
Remote clock offset: -2.992 ms

Below is generated by plot.py at 2018-12-02 06:45:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 25.98 Mbit/s
95th percentile per-packet one-way delay: 5.681 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 12.96 Mbit/s
95th percentile per-packet one-way delay: 4.372 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 12.47 Mbit/s
95th percentile per-packet one-way delay: 5.075 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 14.19 Mbit/s
95th percentile per-packet one-way delay: 14.473 ms
Loss rate: 3.17%

Run 4: Report of TCP Vegas — Data Link

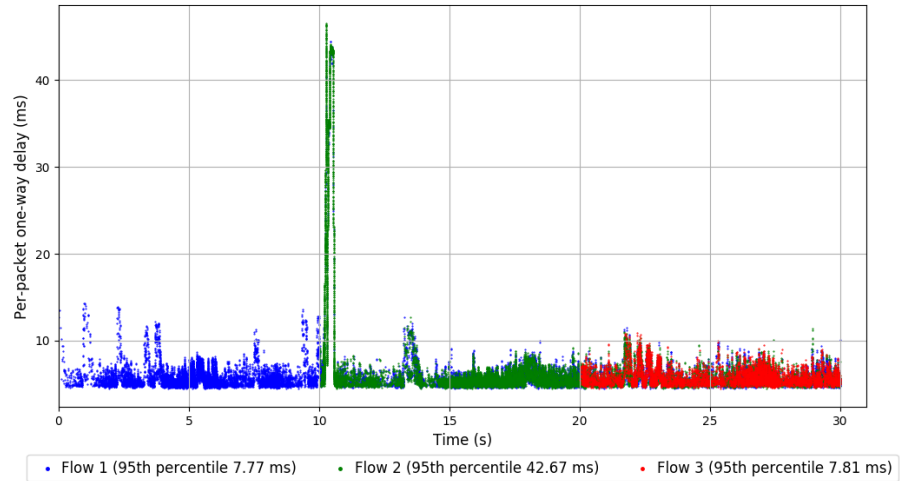
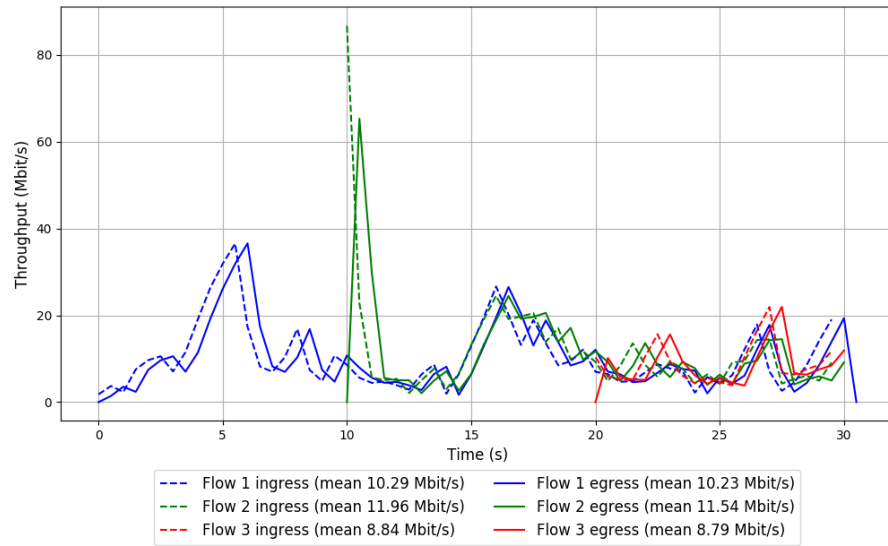


Run 5: Statistics of TCP Vegas

Start at: 2018-12-02 06:15:26
End at: 2018-12-02 06:15:56
Local clock offset: 3.4 ms
Remote clock offset: -2.027 ms

Below is generated by plot.py at 2018-12-02 06:45:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 20.85 Mbit/s
95th percentile per-packet one-way delay: 16.422 ms
Loss rate: 1.69%
-- Flow 1:
Average throughput: 10.23 Mbit/s
95th percentile per-packet one-way delay: 7.773 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 11.54 Mbit/s
95th percentile per-packet one-way delay: 42.672 ms
Loss rate: 3.56%
-- Flow 3:
Average throughput: 8.79 Mbit/s
95th percentile per-packet one-way delay: 7.806 ms
Loss rate: 0.53%

Run 5: Report of TCP Vegas — Data Link

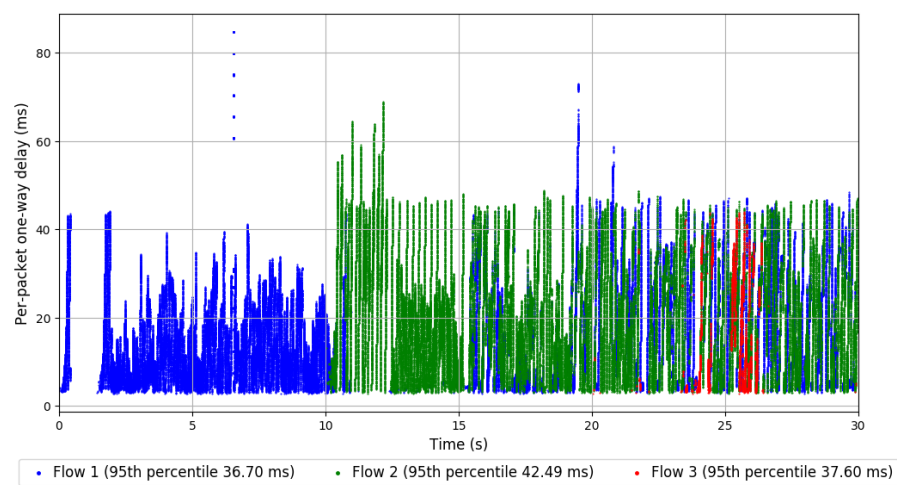
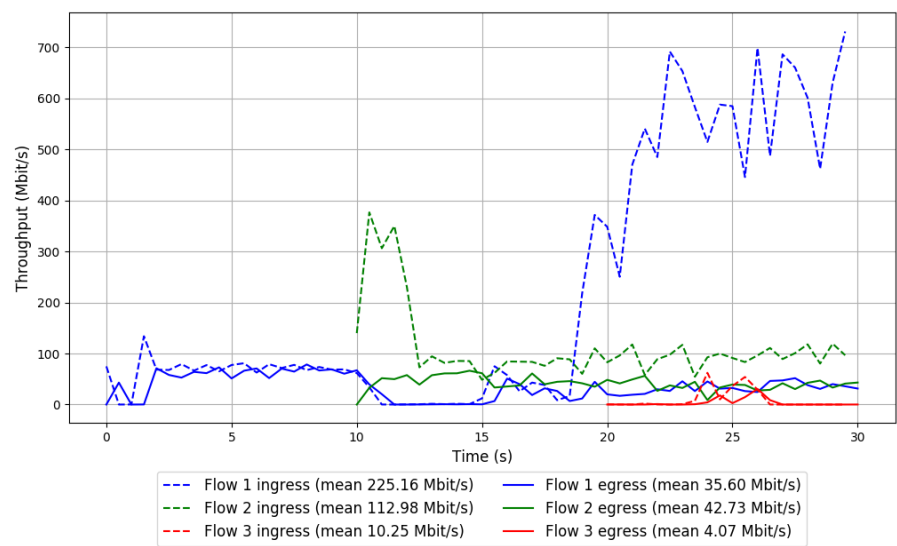


Run 1: Statistics of Verus

Start at: 2018-12-02 05:05:11
End at: 2018-12-02 05:05:41
Local clock offset: 3.318 ms
Remote clock offset: -2.346 ms

Below is generated by plot.py at 2018-12-02 06:46:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.26 Mbit/s
95th percentile per-packet one-way delay: 40.223 ms
Loss rate: 78.45%
-- Flow 1:
Average throughput: 35.60 Mbit/s
95th percentile per-packet one-way delay: 36.703 ms
Loss rate: 84.18%
-- Flow 2:
Average throughput: 42.73 Mbit/s
95th percentile per-packet one-way delay: 42.494 ms
Loss rate: 62.17%
-- Flow 3:
Average throughput: 4.07 Mbit/s
95th percentile per-packet one-way delay: 37.602 ms
Loss rate: 60.31%

Run 1: Report of Verus — Data Link

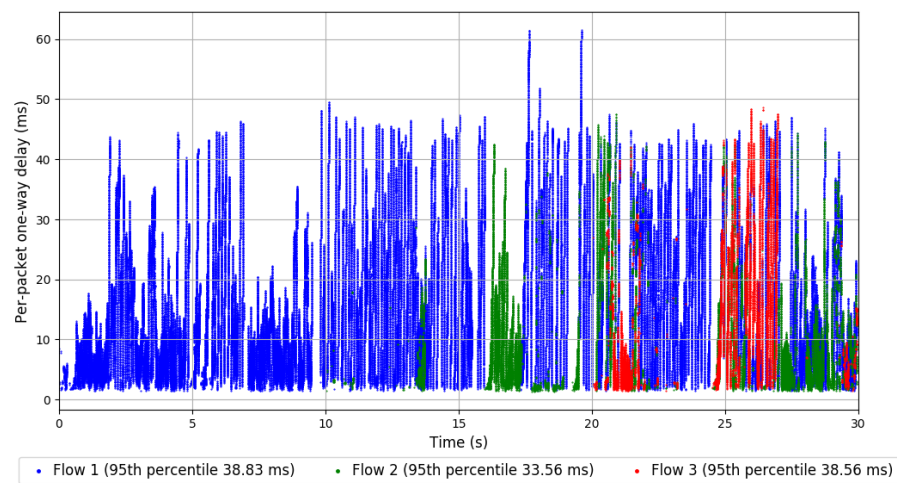
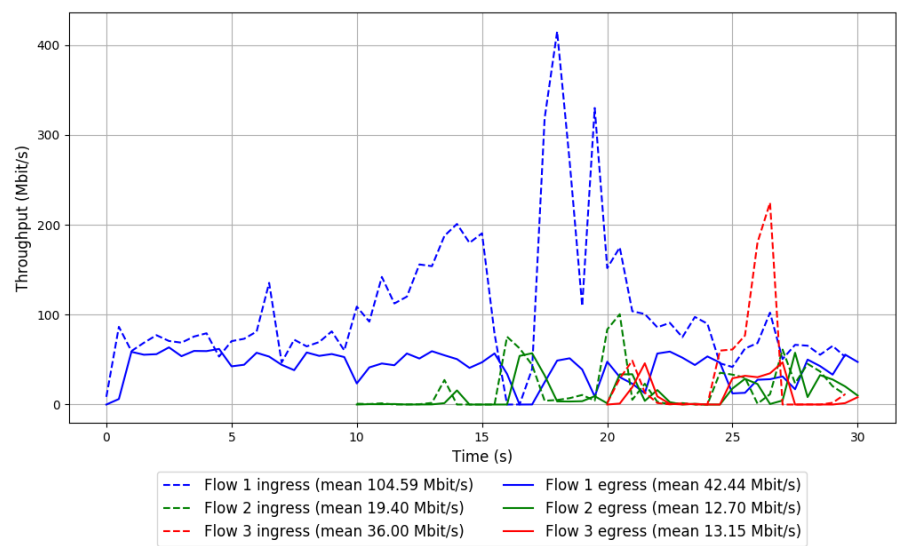


Run 2: Statistics of Verus

Start at: 2018-12-02 05:27:45
End at: 2018-12-02 05:28:15
Local clock offset: 4.043 ms
Remote clock offset: -3.203 ms

Below is generated by plot.py at 2018-12-02 06:46:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 55.21 Mbit/s
95th percentile per-packet one-way delay: 38.282 ms
Loss rate: 57.32%
-- Flow 1:
Average throughput: 42.44 Mbit/s
95th percentile per-packet one-way delay: 38.827 ms
Loss rate: 59.42%
-- Flow 2:
Average throughput: 12.70 Mbit/s
95th percentile per-packet one-way delay: 33.565 ms
Loss rate: 34.55%
-- Flow 3:
Average throughput: 13.15 Mbit/s
95th percentile per-packet one-way delay: 38.564 ms
Loss rate: 63.52%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-12-02 05:50:35

End at: 2018-12-02 05:51:05

Local clock offset: 3.503 ms

Remote clock offset: -2.55 ms

Below is generated by plot.py at 2018-12-02 06:46:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.79 Mbit/s

95th percentile per-packet one-way delay: 46.035 ms

Loss rate: 53.01%

-- Flow 1:

Average throughput: 43.79 Mbit/s

95th percentile per-packet one-way delay: 34.031 ms

Loss rate: 23.99%

-- Flow 2:

Average throughput: 13.43 Mbit/s

95th percentile per-packet one-way delay: 38.221 ms

Loss rate: 52.52%

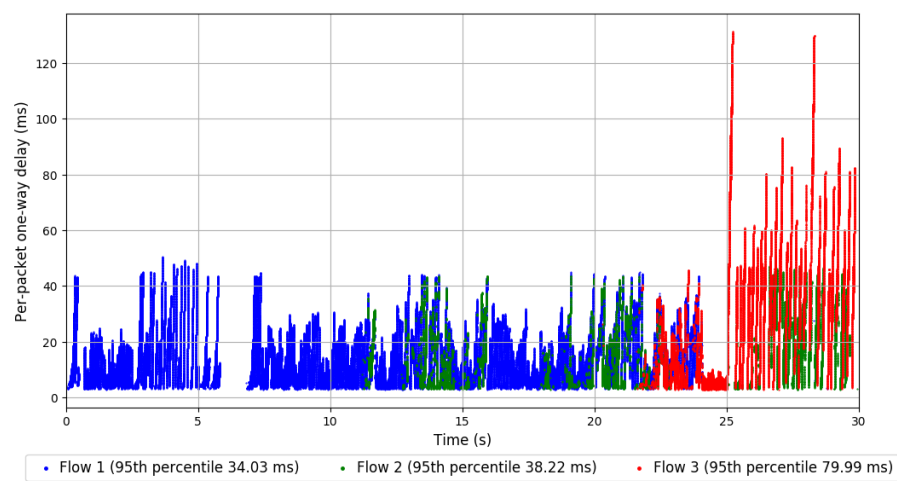
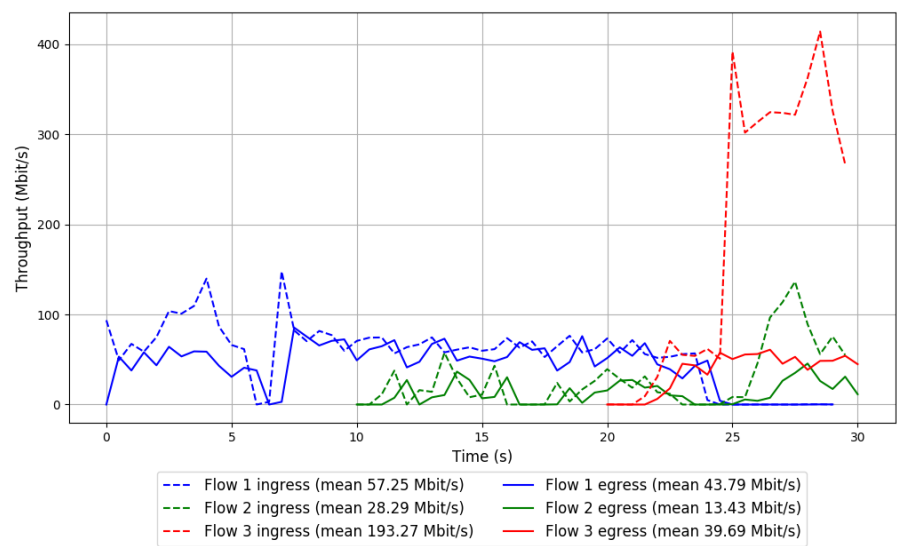
-- Flow 3:

Average throughput: 39.69 Mbit/s

95th percentile per-packet one-way delay: 79.986 ms

Loss rate: 79.36%

Run 3: Report of Verus — Data Link

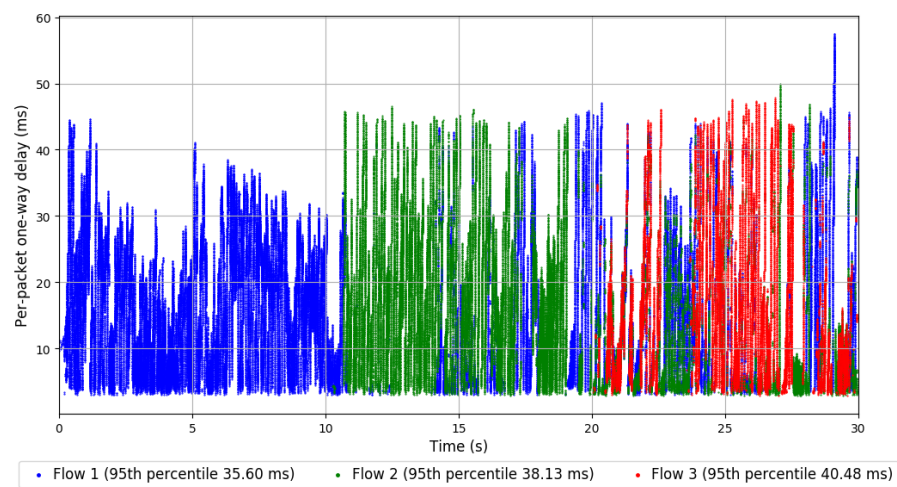
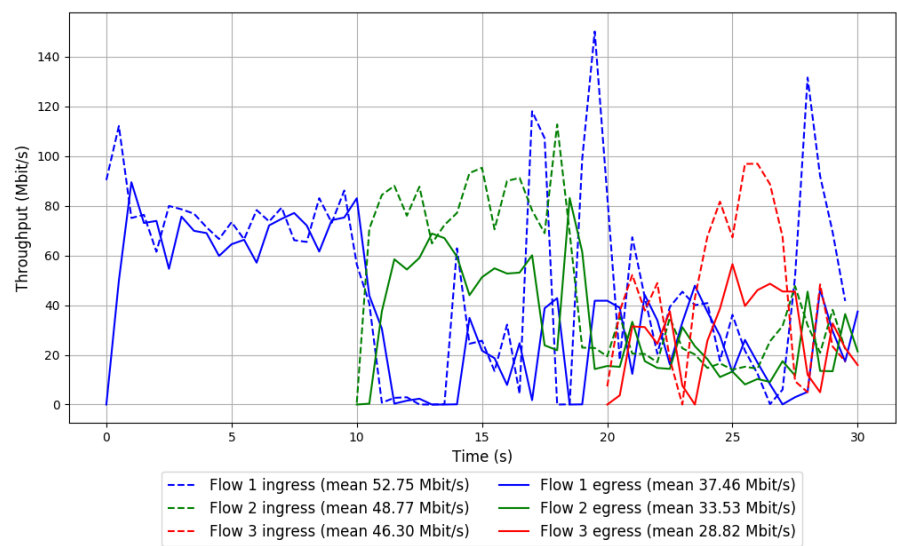


Run 4: Statistics of Verus

Start at: 2018-12-02 06:14:08
End at: 2018-12-02 06:14:38
Local clock offset: 4.461 ms
Remote clock offset: -2.415 ms

Below is generated by plot.py at 2018-12-02 06:46:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.03 Mbit/s
95th percentile per-packet one-way delay: 37.534 ms
Loss rate: 31.00%
-- Flow 1:
Average throughput: 37.46 Mbit/s
95th percentile per-packet one-way delay: 35.603 ms
Loss rate: 28.92%
-- Flow 2:
Average throughput: 33.53 Mbit/s
95th percentile per-packet one-way delay: 38.135 ms
Loss rate: 31.25%
-- Flow 3:
Average throughput: 28.82 Mbit/s
95th percentile per-packet one-way delay: 40.481 ms
Loss rate: 37.68%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-12-02 06:36:40

End at: 2018-12-02 06:37:10

Local clock offset: 5.404 ms

Remote clock offset: 1.312 ms

Below is generated by plot.py at 2018-12-02 06:46:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.86 Mbit/s

95th percentile per-packet one-way delay: 39.900 ms

Loss rate: 27.76%

-- Flow 1:

Average throughput: 34.05 Mbit/s

95th percentile per-packet one-way delay: 35.050 ms

Loss rate: 21.82%

-- Flow 2:

Average throughput: 36.71 Mbit/s

95th percentile per-packet one-way delay: 42.452 ms

Loss rate: 36.08%

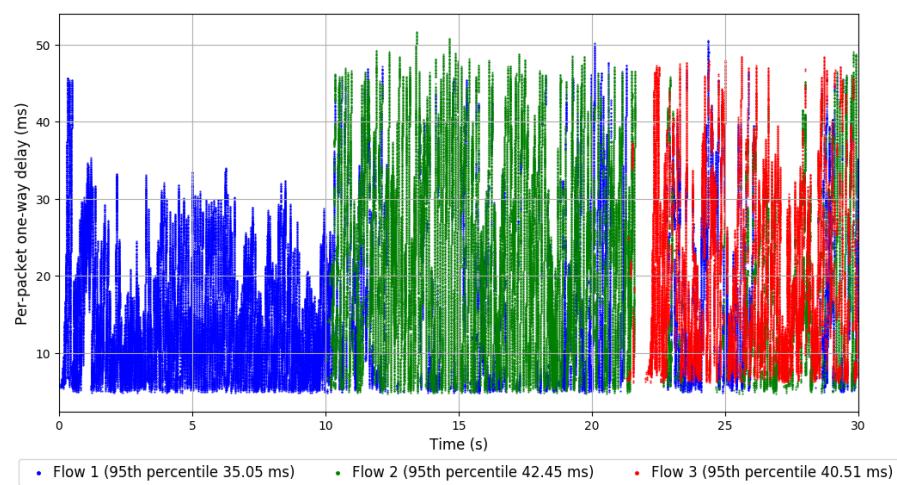
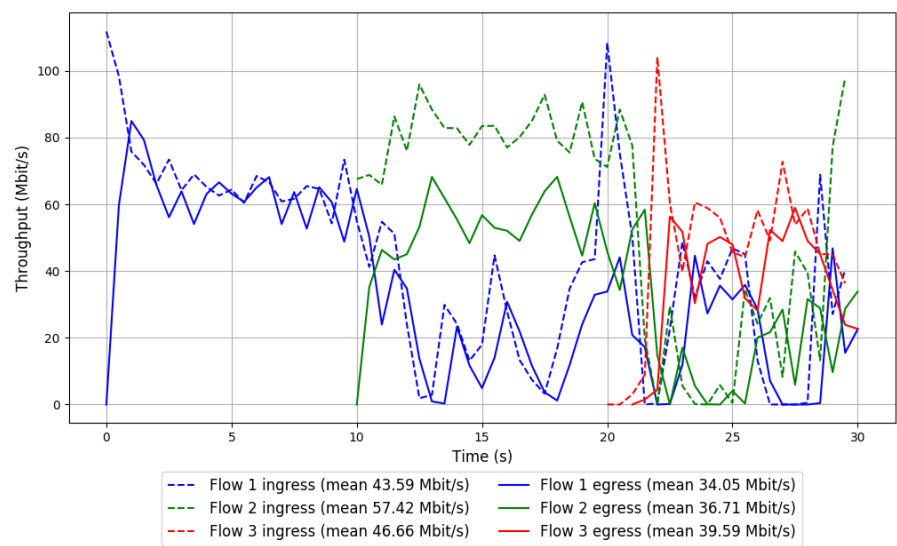
-- Flow 3:

Average throughput: 39.59 Mbit/s

95th percentile per-packet one-way delay: 40.510 ms

Loss rate: 23.85%

Run 5: Report of Verus — Data Link

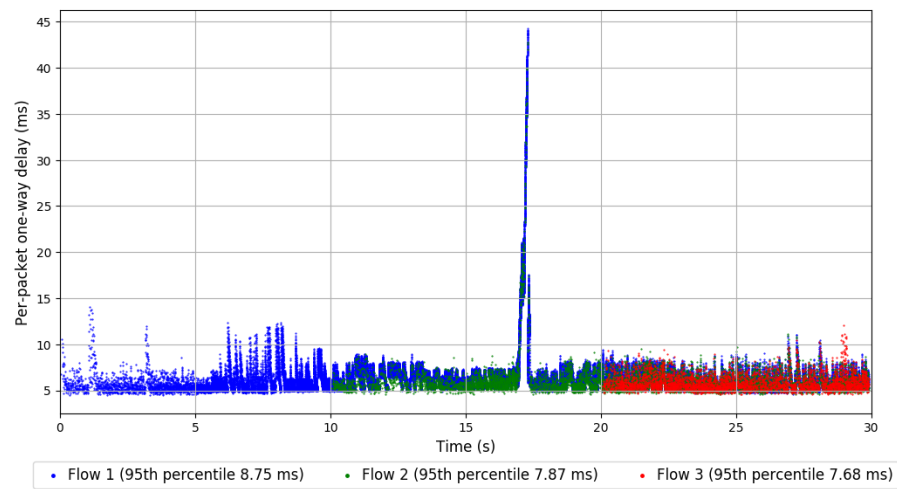
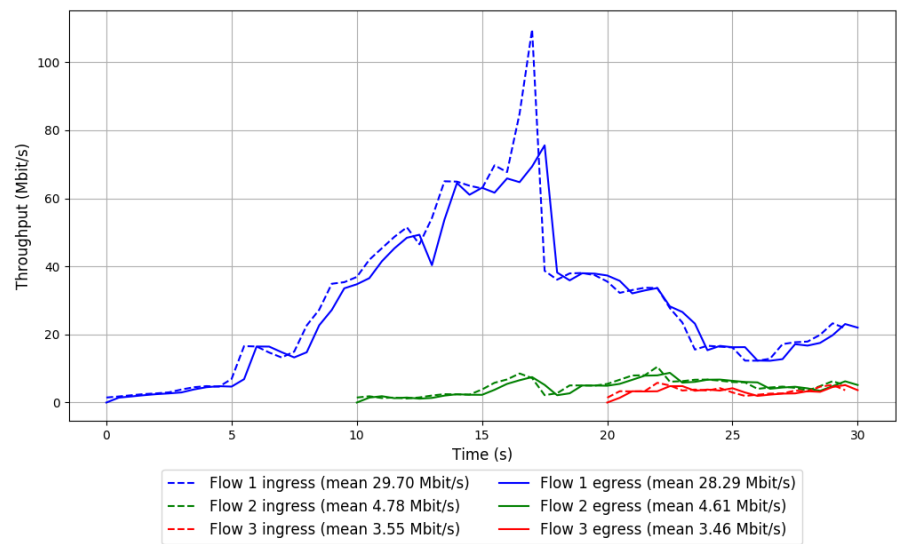


Run 1: Statistics of PCC-Vivace

Start at: 2018-12-02 05:03:57
End at: 2018-12-02 05:04:27
Local clock offset: 2.013 ms
Remote clock offset: -1.803 ms

Below is generated by plot.py at 2018-12-02 06:46:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 32.50 Mbit/s
95th percentile per-packet one-way delay: 8.504 ms
Loss rate: 4.59%
-- Flow 1:
Average throughput: 28.29 Mbit/s
95th percentile per-packet one-way delay: 8.754 ms
Loss rate: 4.77%
-- Flow 2:
Average throughput: 4.61 Mbit/s
95th percentile per-packet one-way delay: 7.868 ms
Loss rate: 3.64%
-- Flow 3:
Average throughput: 3.46 Mbit/s
95th percentile per-packet one-way delay: 7.682 ms
Loss rate: 2.51%

Run 1: Report of PCC-Vivace — Data Link

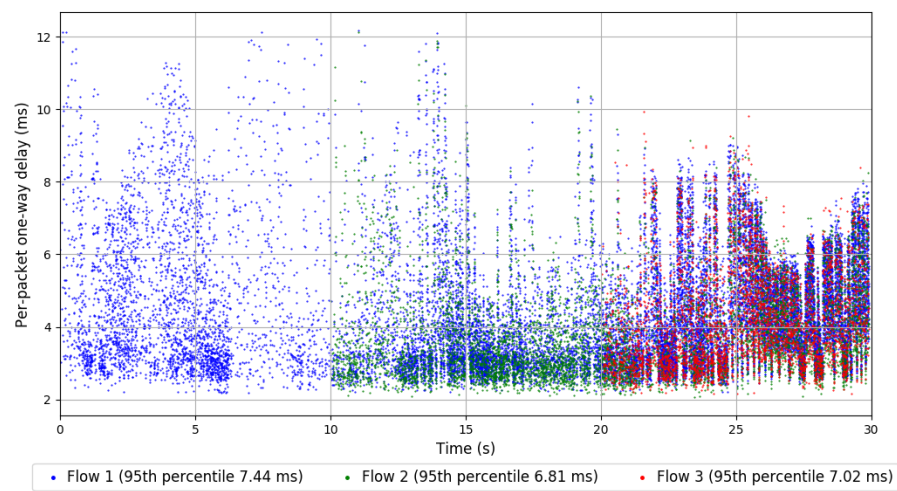
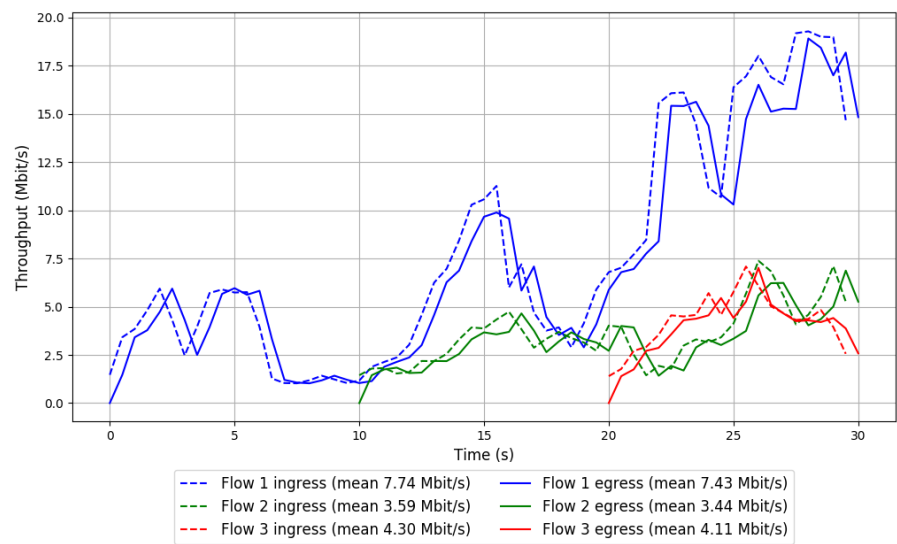


Run 2: Statistics of PCC-Vivace

Start at: 2018-12-02 05:26:37
End at: 2018-12-02 05:27:07
Local clock offset: 4.486 ms
Remote clock offset: -1.858 ms

Below is generated by plot.py at 2018-12-02 06:46:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 11.07 Mbit/s
95th percentile per-packet one-way delay: 7.262 ms
Loss rate: 4.14%
-- Flow 1:
Average throughput: 7.43 Mbit/s
95th percentile per-packet one-way delay: 7.442 ms
Loss rate: 4.05%
-- Flow 2:
Average throughput: 3.44 Mbit/s
95th percentile per-packet one-way delay: 6.812 ms
Loss rate: 4.22%
-- Flow 3:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 7.017 ms
Loss rate: 4.52%

Run 2: Report of PCC-Vivace — Data Link

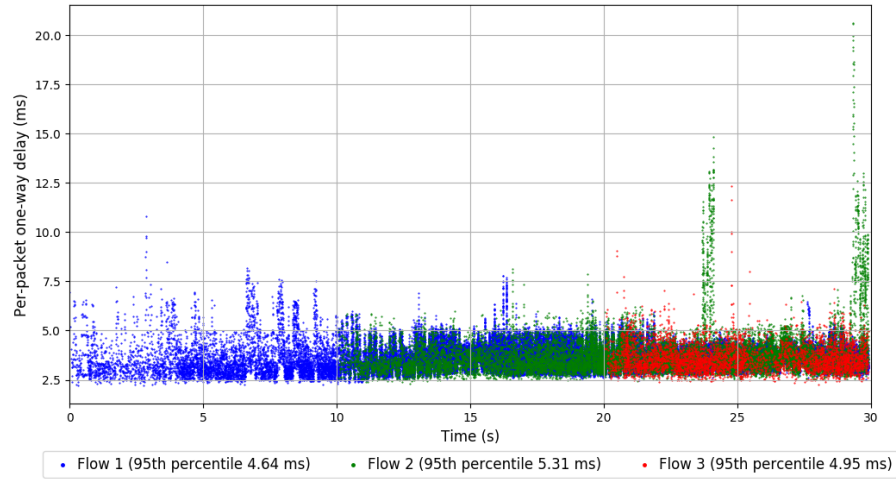
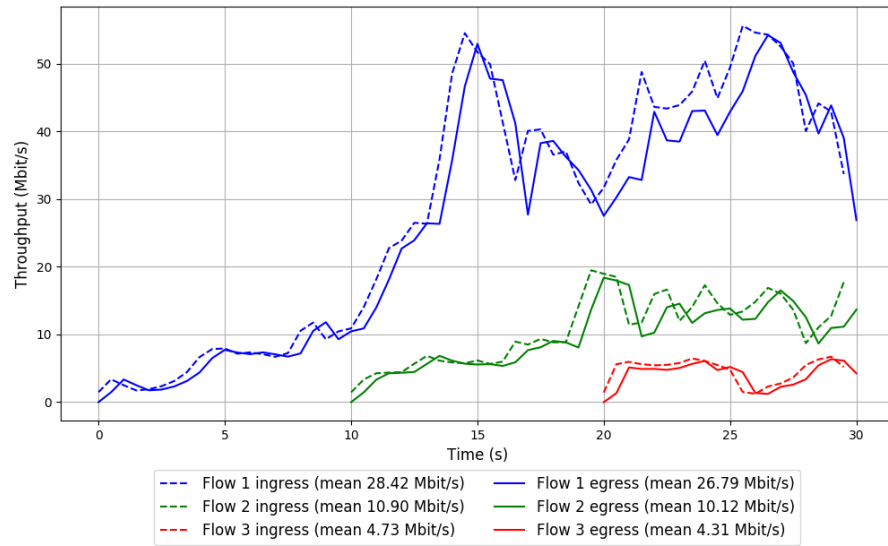


Run 3: Statistics of PCC-Vivace

Start at: 2018-12-02 05:49:23
End at: 2018-12-02 05:49:53
Local clock offset: 4.576 ms
Remote clock offset: -1.766 ms

Below is generated by plot.py at 2018-12-02 06:46:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.94 Mbit/s
95th percentile per-packet one-way delay: 4.750 ms
Loss rate: 6.14%
-- Flow 1:
Average throughput: 26.79 Mbit/s
95th percentile per-packet one-way delay: 4.644 ms
Loss rate: 5.74%
-- Flow 2:
Average throughput: 10.12 Mbit/s
95th percentile per-packet one-way delay: 5.307 ms
Loss rate: 7.16%
-- Flow 3:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 4.948 ms
Loss rate: 8.70%

Run 3: Report of PCC-Vivace — Data Link

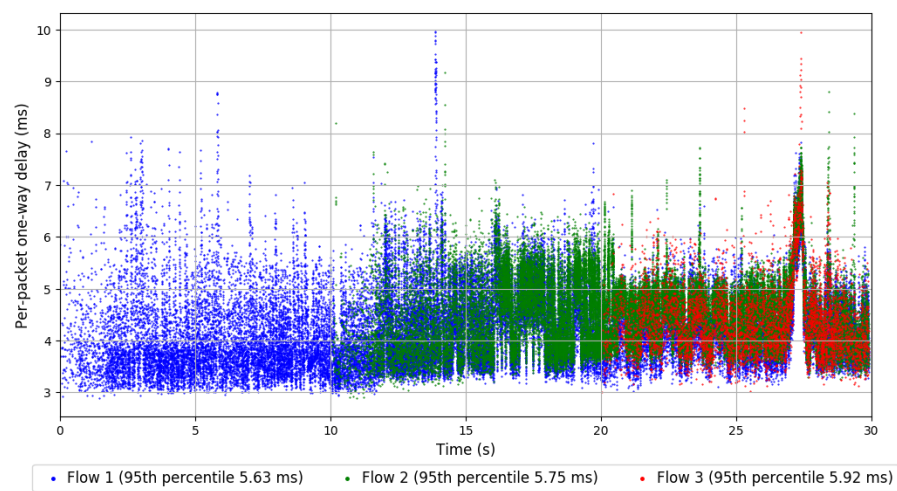
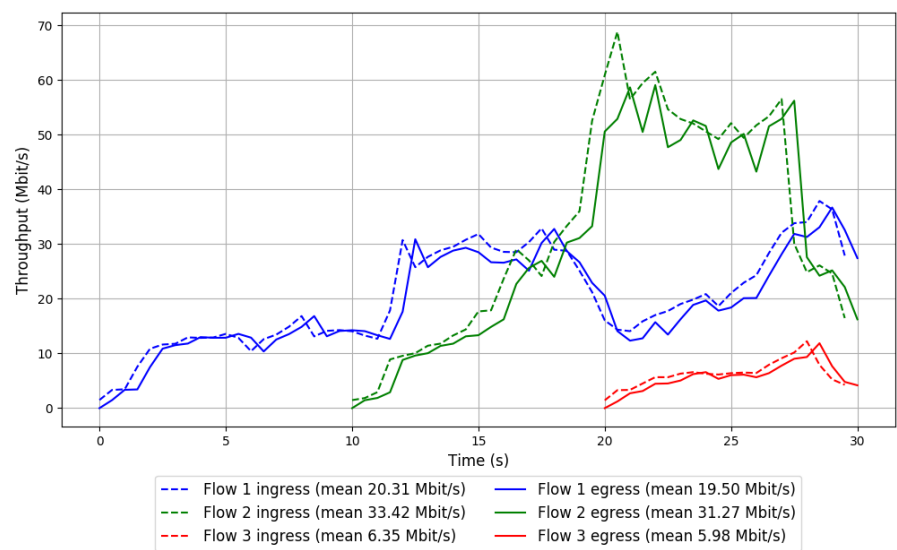


Run 4: Statistics of PCC-Vivace

Start at: 2018-12-02 06:12:49
End at: 2018-12-02 06:13:19
Local clock offset: 5.167 ms
Remote clock offset: -1.582 ms

Below is generated by plot.py at 2018-12-02 06:46:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 42.28 Mbit/s
95th percentile per-packet one-way delay: 5.705 ms
Loss rate: 5.28%
-- Flow 1:
Average throughput: 19.50 Mbit/s
95th percentile per-packet one-way delay: 5.632 ms
Loss rate: 3.97%
-- Flow 2:
Average throughput: 31.27 Mbit/s
95th percentile per-packet one-way delay: 5.745 ms
Loss rate: 6.43%
-- Flow 3:
Average throughput: 5.98 Mbit/s
95th percentile per-packet one-way delay: 5.925 ms
Loss rate: 5.83%

Run 4: Report of PCC-Vivace — Data Link

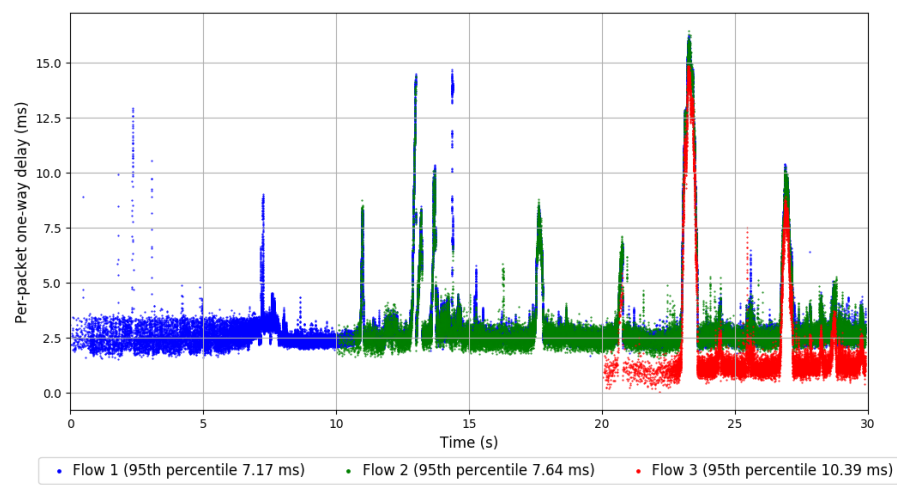
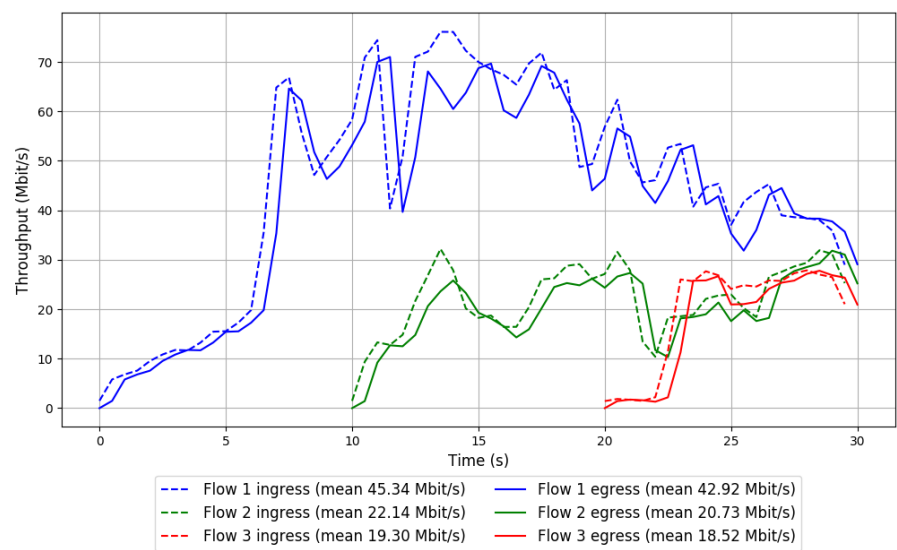


Run 5: Statistics of PCC-Vivace

Start at: 2018-12-02 06:35:26
End at: 2018-12-02 06:35:56
Local clock offset: 4.939 ms
Remote clock offset: -3.561 ms

Below is generated by plot.py at 2018-12-02 06:46:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.83 Mbit/s
95th percentile per-packet one-way delay: 7.527 ms
Loss rate: 5.43%
-- Flow 1:
Average throughput: 42.92 Mbit/s
95th percentile per-packet one-way delay: 7.175 ms
Loss rate: 5.34%
-- Flow 2:
Average throughput: 20.73 Mbit/s
95th percentile per-packet one-way delay: 7.636 ms
Loss rate: 6.34%
-- Flow 3:
Average throughput: 18.52 Mbit/s
95th percentile per-packet one-way delay: 10.387 ms
Loss rate: 4.04%

Run 5: Report of PCC-Vivace — Data Link

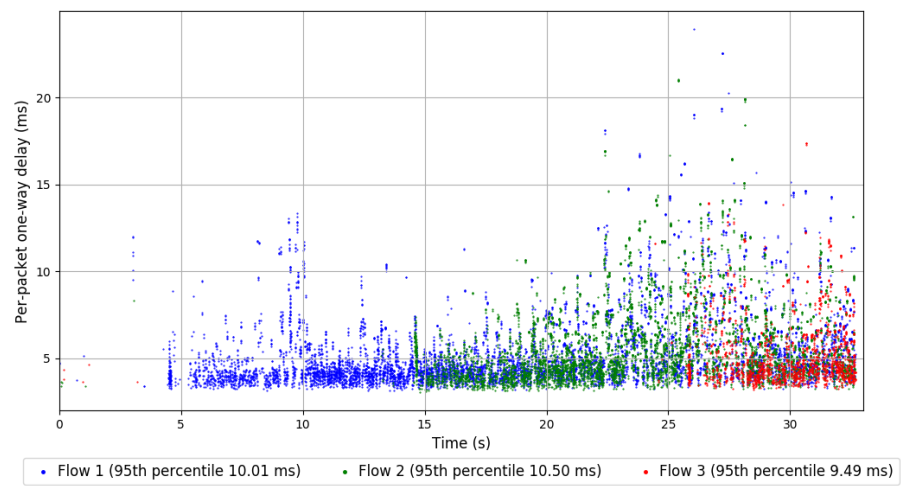
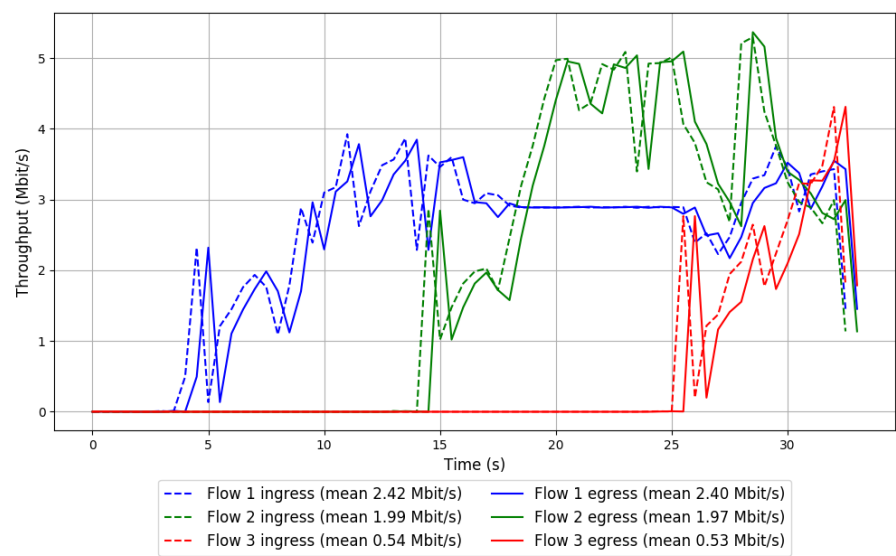


Run 1: Statistics of WebRTC media

Start at: 2018-12-02 05:02:50
End at: 2018-12-02 05:03:20
Local clock offset: 3.155 ms
Remote clock offset: -2.104 ms

Below is generated by plot.py at 2018-12-02 06:46:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.89 Mbit/s
95th percentile per-packet one-way delay: 10.214 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 10.012 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 10.501 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 9.493 ms
Loss rate: 1.78%

Run 1: Report of WebRTC media — Data Link

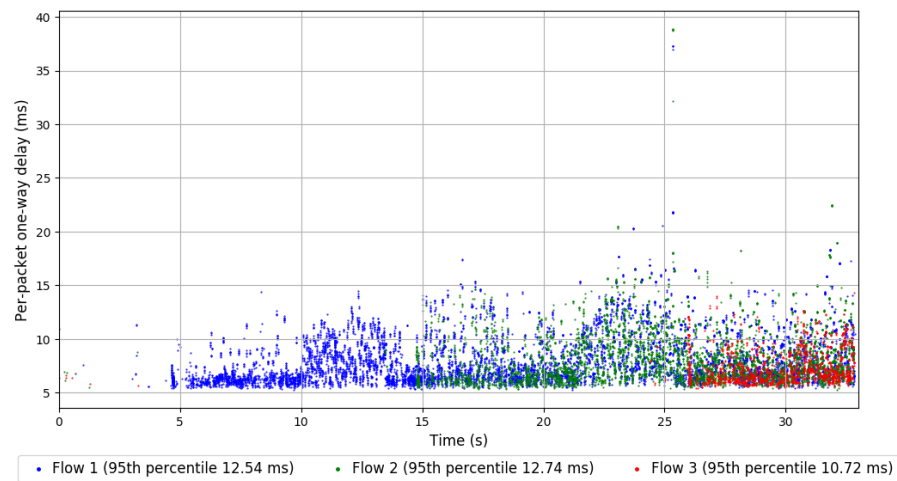
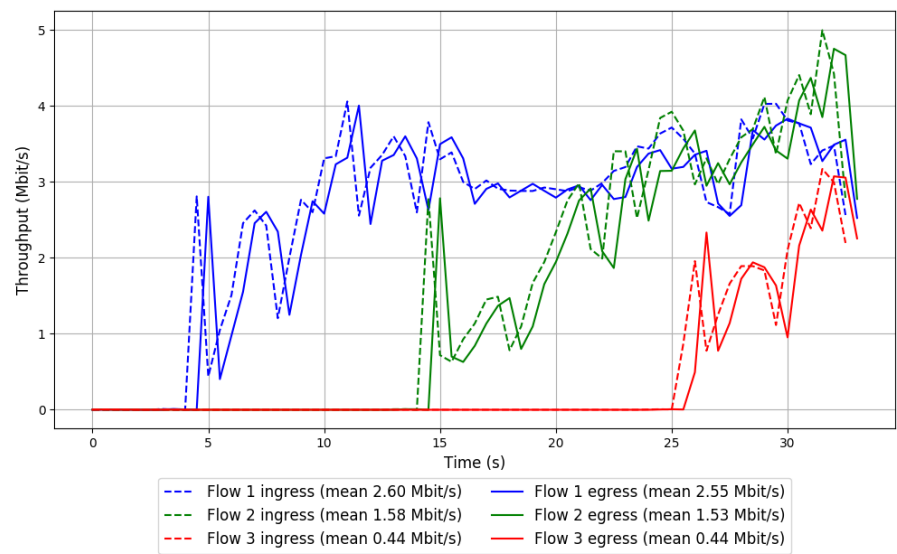


Run 2: Statistics of WebRTC media

Start at: 2018-12-02 05:25:30
End at: 2018-12-02 05:26:00
Local clock offset: 0.576 ms
Remote clock offset: -2.628 ms

Below is generated by plot.py at 2018-12-02 06:46:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.50 Mbit/s
95th percentile per-packet one-way delay: 12.471 ms
Loss rate: 2.23%
-- Flow 1:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 12.535 ms
Loss rate: 1.93%
-- Flow 2:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 12.738 ms
Loss rate: 2.96%
-- Flow 3:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 10.725 ms
Loss rate: 1.43%

Run 2: Report of WebRTC media — Data Link

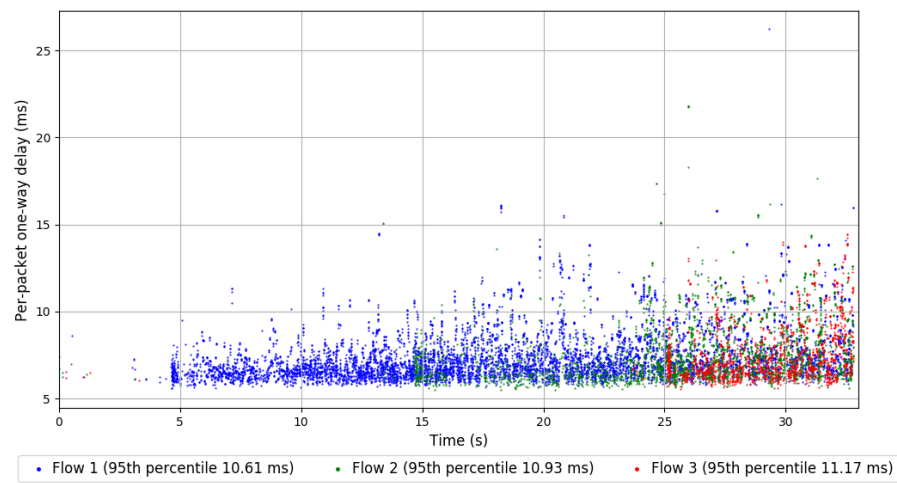
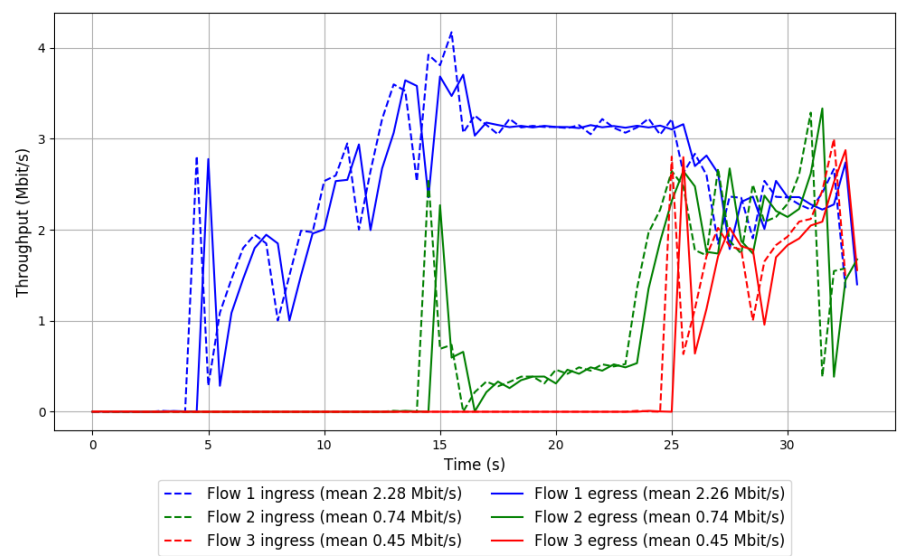


Run 3: Statistics of WebRTC media

Start at: 2018-12-02 05:48:15
End at: 2018-12-02 05:48:45
Local clock offset: 1.163 ms
Remote clock offset: -1.854 ms

Below is generated by plot.py at 2018-12-02 06:46:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.44 Mbit/s
95th percentile per-packet one-way delay: 10.758 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 10.613 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 0.74 Mbit/s
95th percentile per-packet one-way delay: 10.930 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 11.172 ms
Loss rate: 0.12%

Run 3: Report of WebRTC media — Data Link

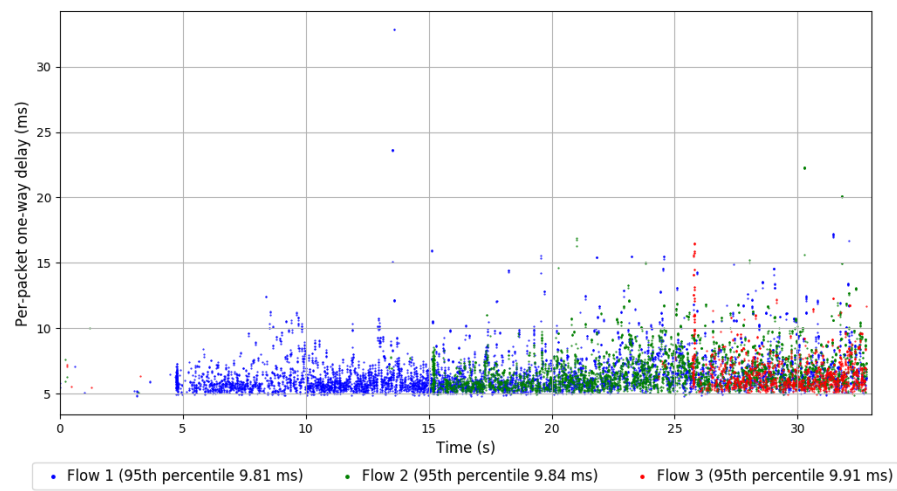
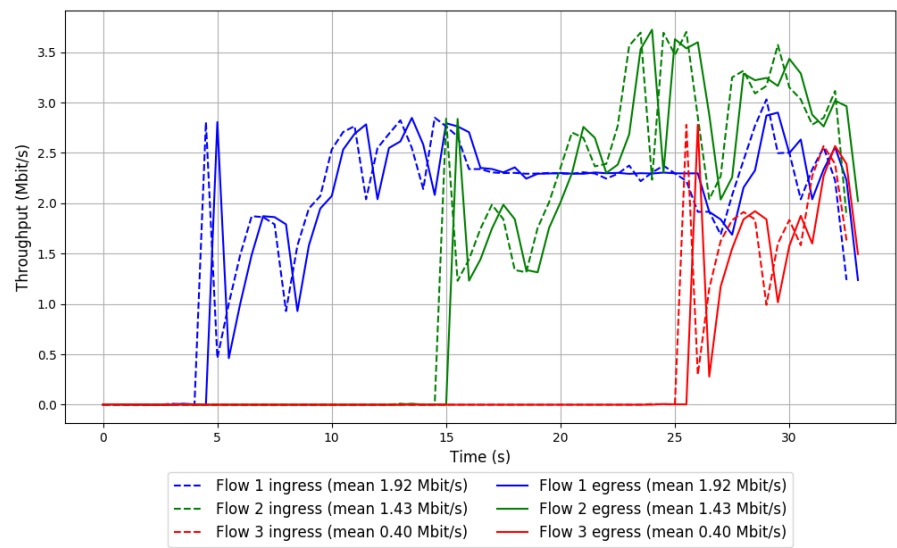


Run 4: Statistics of WebRTC media

Start at: 2018-12-02 06:11:42
End at: 2018-12-02 06:12:12
Local clock offset: 2.684 ms
Remote clock offset: -2.147 ms

Below is generated by plot.py at 2018-12-02 06:46:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.75 Mbit/s
95th percentile per-packet one-way delay: 9.836 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 1.92 Mbit/s
95th percentile per-packet one-way delay: 9.814 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 1.43 Mbit/s
95th percentile per-packet one-way delay: 9.840 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 9.910 ms
Loss rate: 0.51%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-12-02 06:34:19
End at: 2018-12-02 06:34:49
Local clock offset: 4.292 ms
Remote clock offset: -3.416 ms

Below is generated by plot.py at 2018-12-02 06:46:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.77 Mbit/s
95th percentile per-packet one-way delay: 7.156 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 2.08 Mbit/s
95th percentile per-packet one-way delay: 7.239 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 1.23 Mbit/s
95th percentile per-packet one-way delay: 7.544 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 6.059 ms
Loss rate: 0.24%

Run 5: Report of WebRTC media — Data Link

