

Pantheon Report

Generated at 2018-07-11 00:09:30 (UTC).

Data path: Colombia Ethernet (*remote*) → AWS Brazil 2 Ethernet (*local*).

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

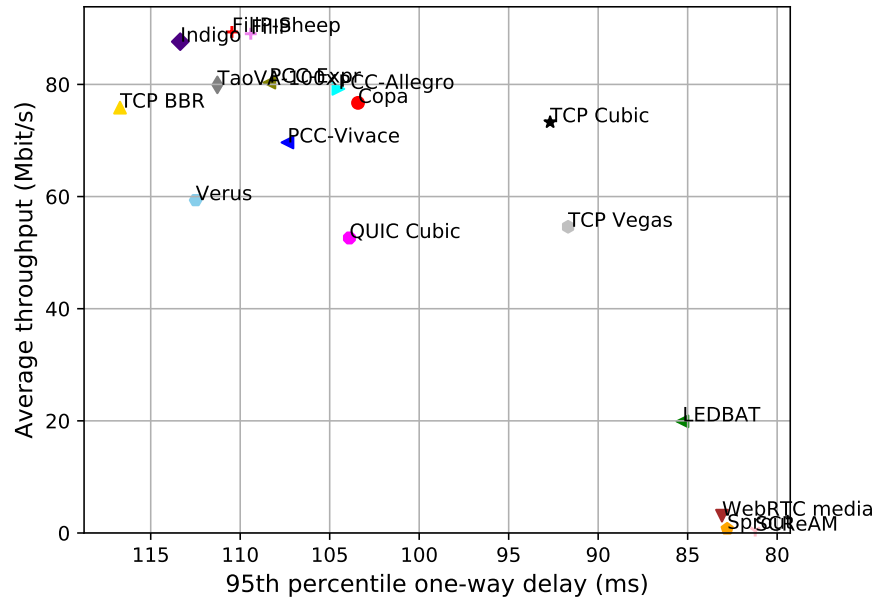
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

NTP offsets were measured against `gps.ntp.br` and have been applied to correct the timestamps in logs.

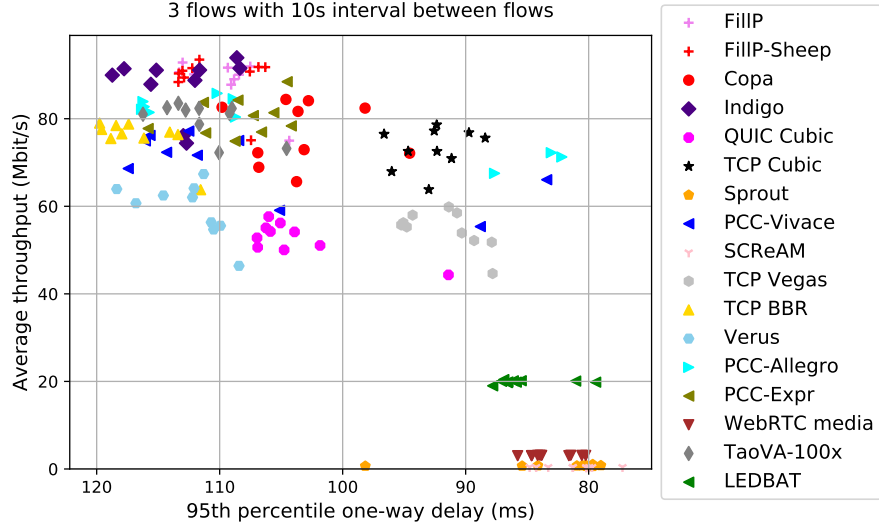
Git summary:

```
branch: master @ 9250dbeec7fb57193cdff1ba8c440b4e16ab30f0
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ 37162fe9af85249aeccac061c93e75640ef710b5
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf90c077e64d
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
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
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webRTC @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from Colombia to AWS Brazil 2, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from Colombia to AWS Brazil 2, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	44.62	33.86	26.64	114.39	116.65	118.40	2.36	3.60	5.58
Copa	10	46.65	33.55	23.59	100.47	103.26	101.35	3.25	4.13	5.52
TCP Cubic	10	45.05	31.33	22.55	92.27	98.79	101.84	0.37	0.70	1.82
FillP	10	55.53	36.51	28.29	108.17	108.91	112.10	3.12	5.26	6.62
FillP-Sheep	10	55.22	37.27	28.67	109.07	110.65	112.26	4.52	7.98	8.88
Indigo	10	55.76	34.67	27.29	111.88	113.05	110.15	6.62	5.03	5.69
LEDBAT	10	13.06	8.31	4.08	85.12	84.99	85.21	1.10	1.64	3.41
PCC-Allegro	10	55.95	25.24	19.99	102.23	104.19	105.41	5.38	3.73	5.25
PCC-Expr	10	49.68	33.97	24.82	106.96	108.69	107.08	1.23	1.46	2.36
QUIC Cubic	10	28.96	24.80	22.01	101.80	103.63	111.21	0.84	1.31	2.21
SCReAM	10	0.21	0.22	0.22	80.40	80.42	79.75	0.68	0.82	1.61
Sprout	10	0.37	0.39	0.37	81.29	80.70	84.37	0.37	0.55	1.10
TaoVA-100x	10	48.13	34.90	26.20	109.37	111.83	113.78	2.74	4.16	6.83
TCP Vegas	10	32.36	23.80	19.61	91.16	91.80	104.80	0.38	0.94	1.92
Verus	10	35.30	25.47	22.02	108.27	113.02	114.61	4.15	4.56	5.78
PCC-Vivace	10	46.77	25.75	17.73	104.98	107.40	105.27	2.81	3.80	3.34
WebRTC media	10	1.74	0.98	0.39	82.01	82.94	82.81	0.36	0.71	1.88

Run 1: Statistics of TCP BBR

Start at: 2018-07-10 20:30:46

End at: 2018-07-10 20:31:16

Local clock offset: -1.335 ms

Remote clock offset: 9.88 ms

Below is generated by plot.py at 2018-07-10 23:51:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.59 Mbit/s

95th percentile per-packet one-way delay: 116.158 ms

Loss rate: 2.25%

-- Flow 1:

Average throughput: 44.40 Mbit/s

95th percentile per-packet one-way delay: 115.351 ms

Loss rate: 1.52%

-- Flow 2:

Average throughput: 33.76 Mbit/s

95th percentile per-packet one-way delay: 115.711 ms

Loss rate: 2.59%

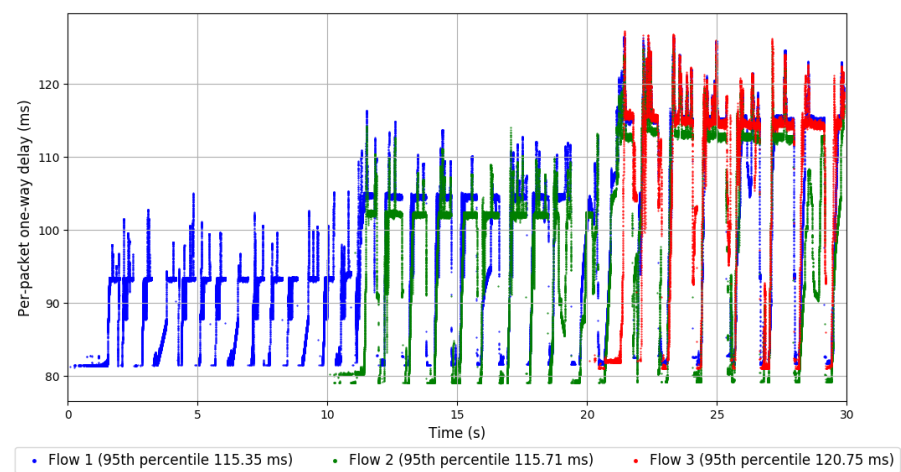
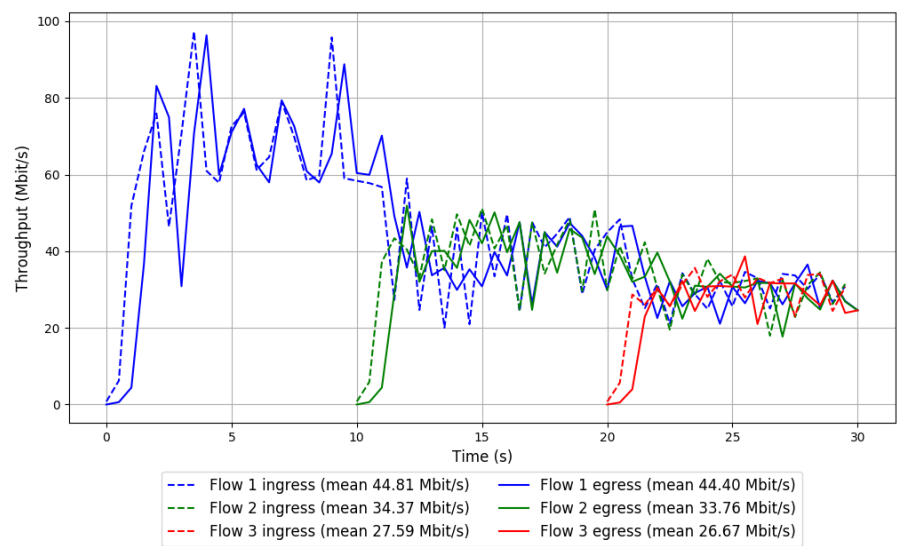
-- Flow 3:

Average throughput: 26.67 Mbit/s

95th percentile per-packet one-way delay: 120.754 ms

Loss rate: 4.95%

Run 1: Report of TCP BBR — Data Link

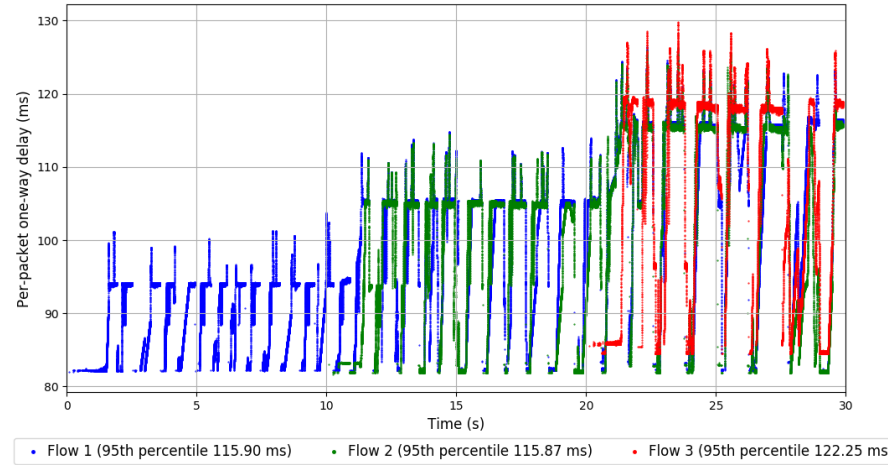
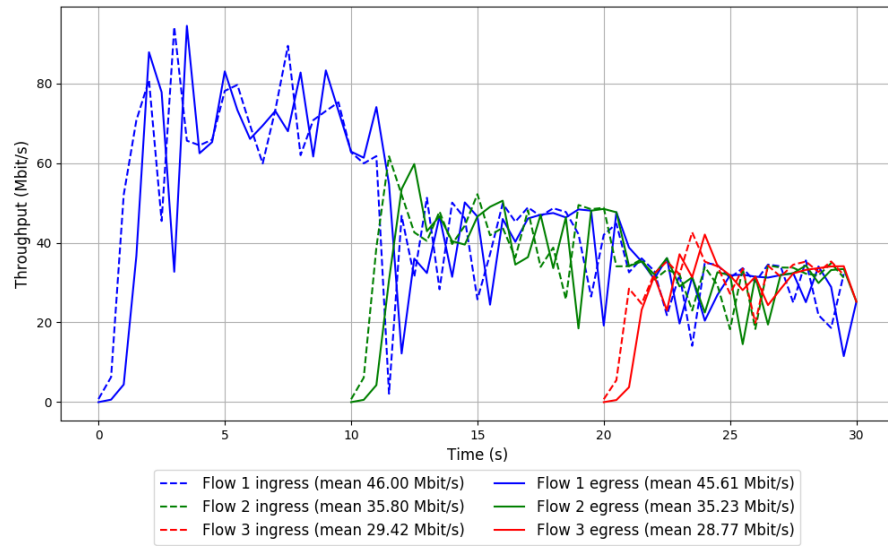


Run 2: Statistics of TCP BBR

Start at: 2018-07-10 20:51:58
End at: 2018-07-10 20:52:28
Local clock offset: -1.432 ms
Remote clock offset: 12.437 ms

Below is generated by plot.py at 2018-07-10 23:51:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.45 Mbit/s
95th percentile per-packet one-way delay: 118.422 ms
Loss rate: 2.02%
-- Flow 1:
Average throughput: 45.61 Mbit/s
95th percentile per-packet one-way delay: 115.904 ms
Loss rate: 1.40%
-- Flow 2:
Average throughput: 35.23 Mbit/s
95th percentile per-packet one-way delay: 115.874 ms
Loss rate: 2.42%
-- Flow 3:
Average throughput: 28.77 Mbit/s
95th percentile per-packet one-way delay: 122.248 ms
Loss rate: 3.99%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-07-10 21:13:05

End at: 2018-07-10 21:13:35

Local clock offset: -1.54 ms

Remote clock offset: 11.44 ms

Below is generated by plot.py at 2018-07-10 23:51:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.56 Mbit/s

95th percentile per-packet one-way delay: 117.953 ms

Loss rate: 2.14%

-- Flow 1:

Average throughput: 45.37 Mbit/s

95th percentile per-packet one-way delay: 117.432 ms

Loss rate: 1.46%

-- Flow 2:

Average throughput: 33.80 Mbit/s

95th percentile per-packet one-way delay: 116.046 ms

Loss rate: 2.36%

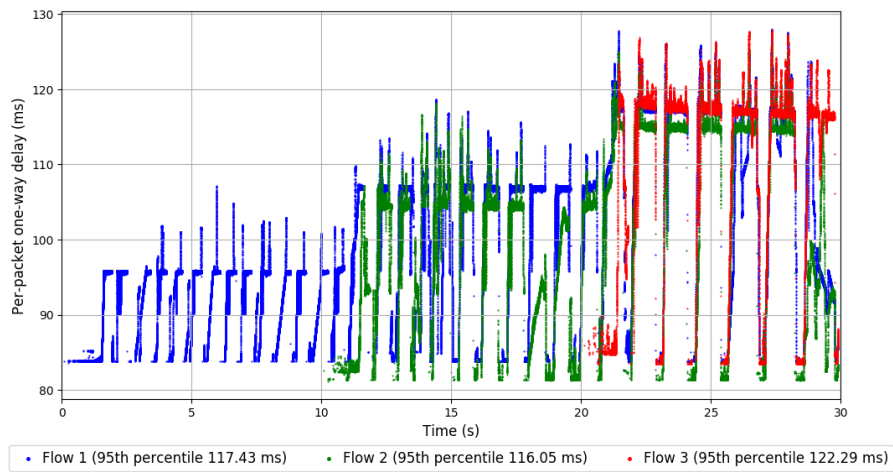
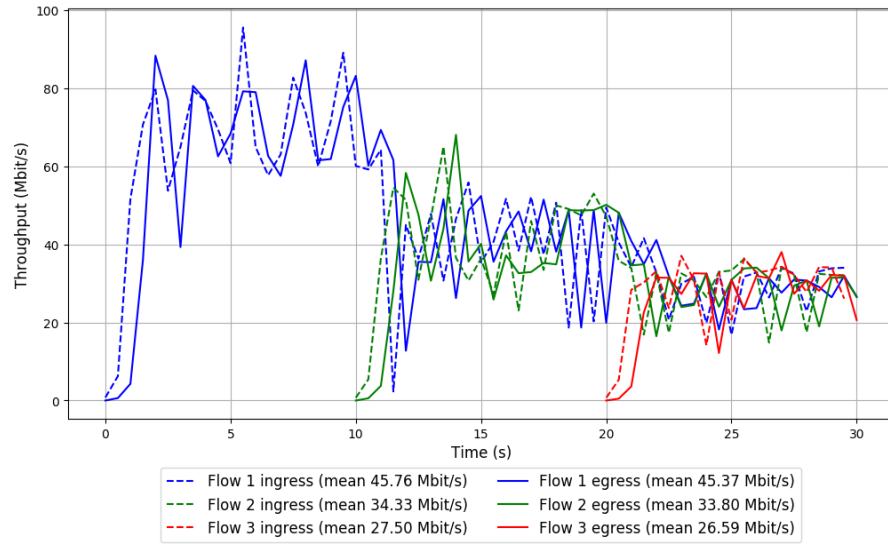
-- Flow 3:

Average throughput: 26.59 Mbit/s

95th percentile per-packet one-way delay: 122.291 ms

Loss rate: 4.95%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-07-10 21:34:16

End at: 2018-07-10 21:34:46

Local clock offset: -1.481 ms

Remote clock offset: 10.5 ms

Below is generated by plot.py at 2018-07-10 23:51:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.79 Mbit/s

95th percentile per-packet one-way delay: 117.401 ms

Loss rate: 1.79%

-- Flow 1:

Average throughput: 45.86 Mbit/s

95th percentile per-packet one-way delay: 112.123 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 35.51 Mbit/s

95th percentile per-packet one-way delay: 118.366 ms

Loss rate: 2.45%

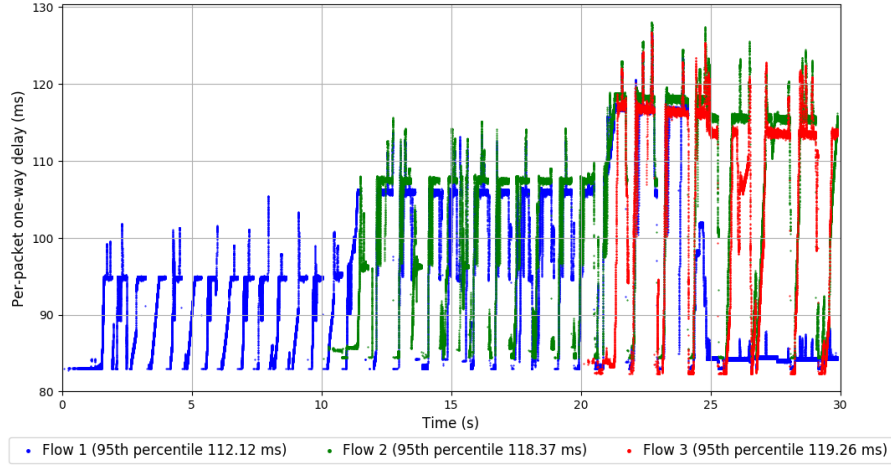
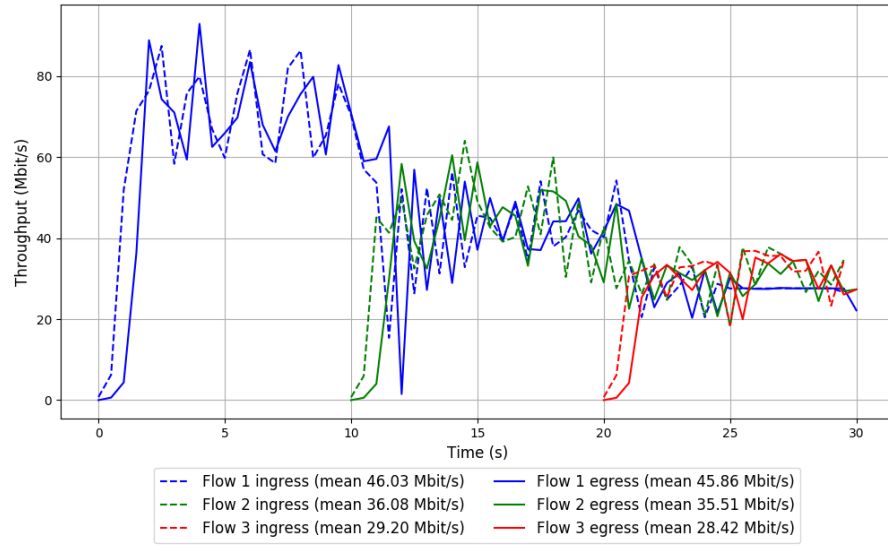
-- Flow 3:

Average throughput: 28.42 Mbit/s

95th percentile per-packet one-way delay: 119.262 ms

Loss rate: 4.37%

Run 4: Report of TCP BBR — Data Link

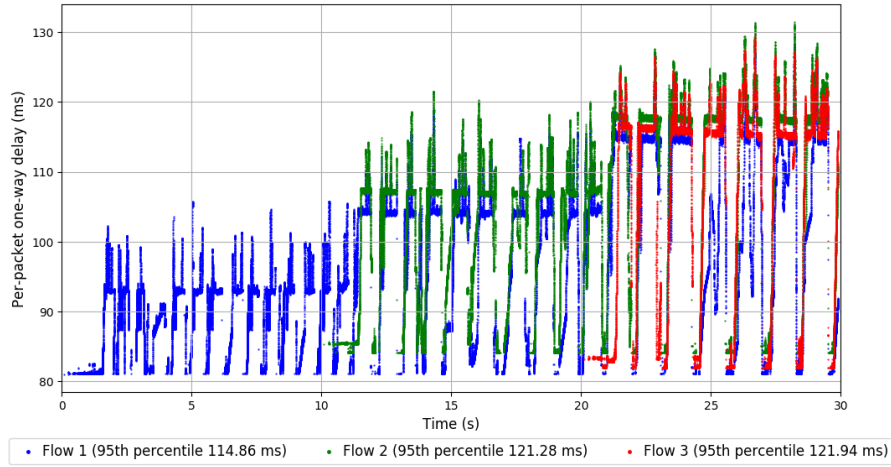
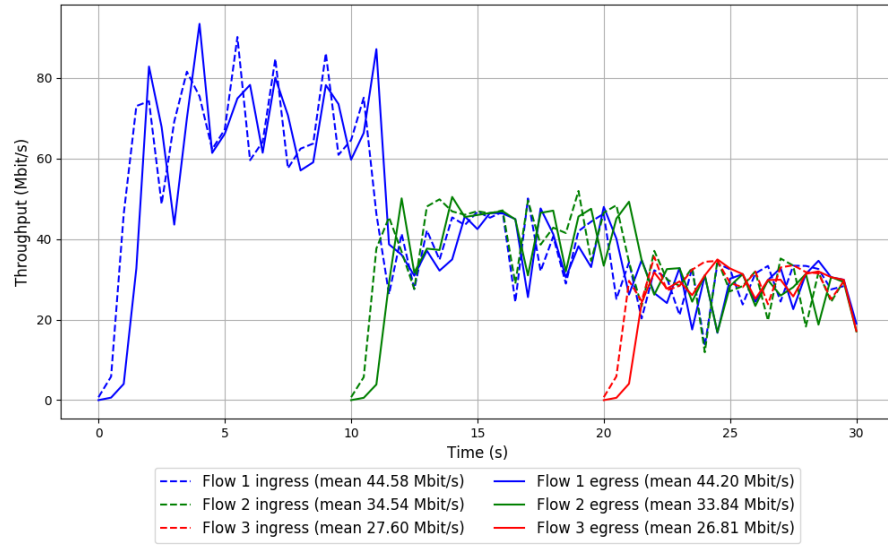


Run 5: Statistics of TCP BBR

Start at: 2018-07-10 21:55:26
End at: 2018-07-10 21:55:56
Local clock offset: -1.283 ms
Remote clock offset: 11.967 ms

Below is generated by plot.py at 2018-07-10 23:51:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.48 Mbit/s
95th percentile per-packet one-way delay: 118.848 ms
Loss rate: 2.24%
-- Flow 1:
Average throughput: 44.20 Mbit/s
95th percentile per-packet one-way delay: 114.855 ms
Loss rate: 1.39%
-- Flow 2:
Average throughput: 33.84 Mbit/s
95th percentile per-packet one-way delay: 121.283 ms
Loss rate: 2.92%
-- Flow 3:
Average throughput: 26.81 Mbit/s
95th percentile per-packet one-way delay: 121.935 ms
Loss rate: 4.62%

Run 5: Report of TCP BBR — Data Link

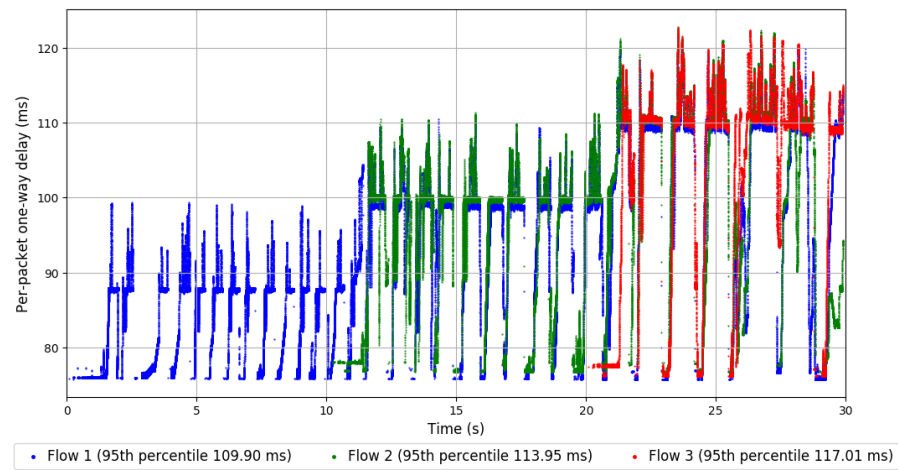
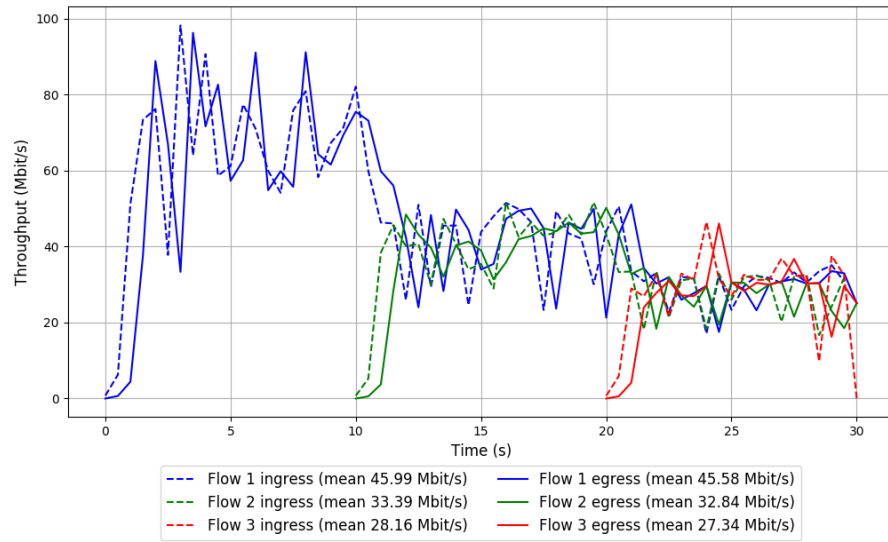


Run 6: Statistics of TCP BBR

Start at: 2018-07-10 22:16:47
End at: 2018-07-10 22:17:17
Local clock offset: -1.125 ms
Remote clock offset: 12.016 ms

Below is generated by plot.py at 2018-07-10 23:51:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.38 Mbit/s
95th percentile per-packet one-way delay: 113.390 ms
Loss rate: 2.12%
-- Flow 1:
Average throughput: 45.58 Mbit/s
95th percentile per-packet one-way delay: 109.904 ms
Loss rate: 1.44%
-- Flow 2:
Average throughput: 32.84 Mbit/s
95th percentile per-packet one-way delay: 113.946 ms
Loss rate: 2.46%
-- Flow 3:
Average throughput: 27.34 Mbit/s
95th percentile per-packet one-way delay: 117.010 ms
Loss rate: 4.68%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-07-10 22:38:05

End at: 2018-07-10 22:38:35

Local clock offset: -1.033 ms

Remote clock offset: 1.243 ms

Below is generated by plot.py at 2018-07-10 23:51:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.00 Mbit/s

95th percentile per-packet one-way delay: 119.760 ms

Loss rate: 1.47%

-- Flow 1:

Average throughput: 45.76 Mbit/s

95th percentile per-packet one-way delay: 119.420 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 36.35 Mbit/s

95th percentile per-packet one-way delay: 119.603 ms

Loss rate: 2.02%

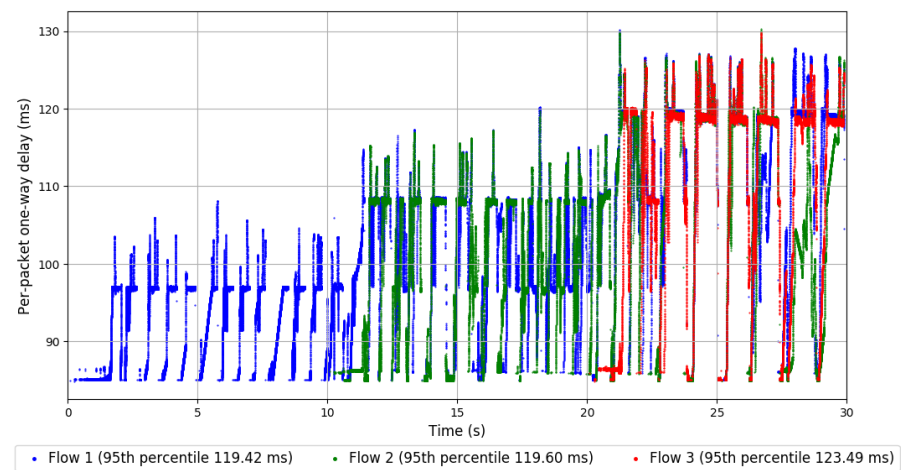
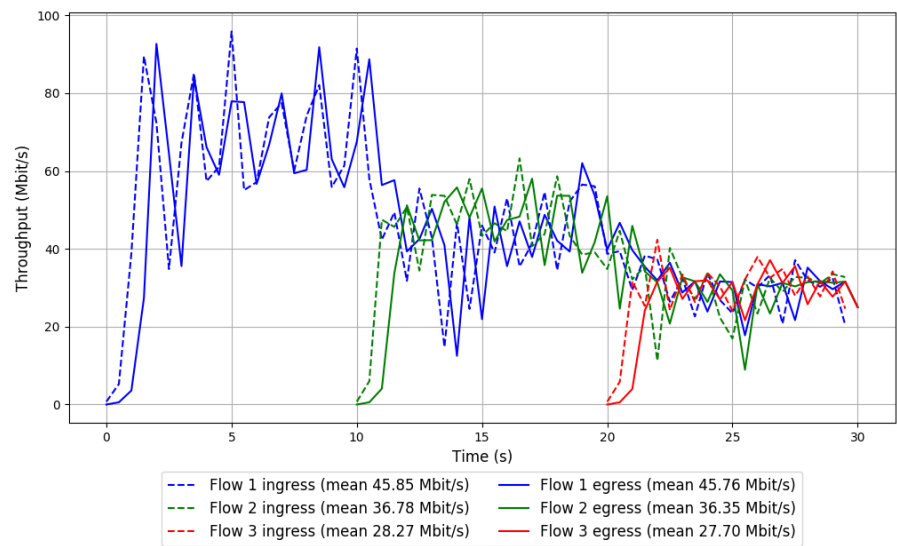
-- Flow 3:

Average throughput: 27.70 Mbit/s

95th percentile per-packet one-way delay: 123.489 ms

Loss rate: 3.61%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-07-10 22:59:14

End at: 2018-07-10 22:59:44

Local clock offset: -0.994 ms

Remote clock offset: 6.645 ms

Below is generated by plot.py at 2018-07-10 23:51:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.95 Mbit/s

95th percentile per-packet one-way delay: 114.057 ms

Loss rate: 1.98%

-- Flow 1:

Average throughput: 45.36 Mbit/s

95th percentile per-packet one-way delay: 111.937 ms

Loss rate: 1.28%

-- Flow 2:

Average throughput: 33.47 Mbit/s

95th percentile per-packet one-way delay: 113.389 ms

Loss rate: 2.56%

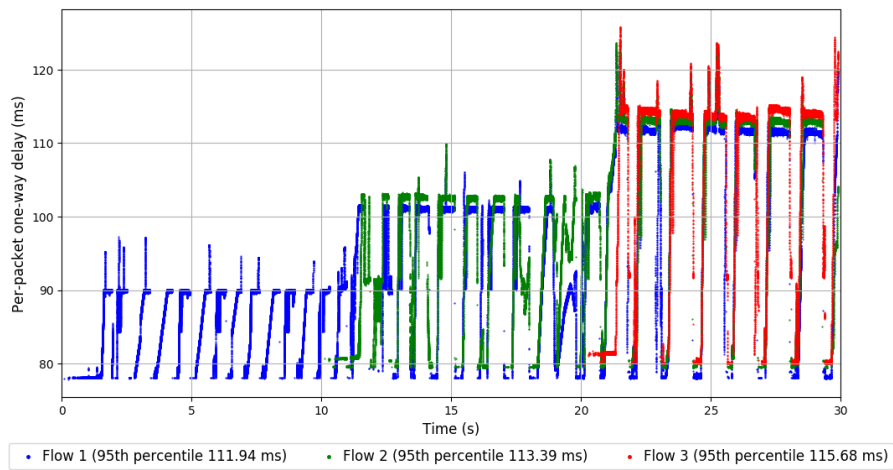
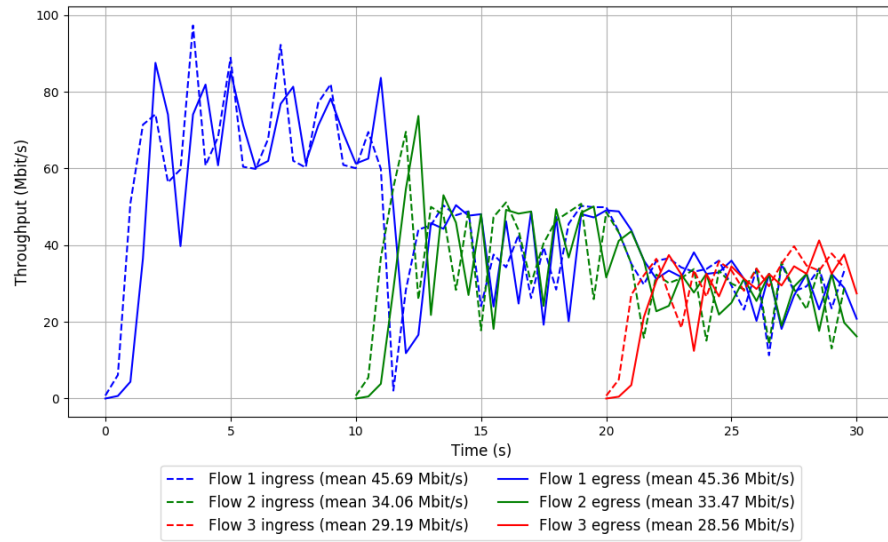
-- Flow 3:

Average throughput: 28.56 Mbit/s

95th percentile per-packet one-way delay: 115.683 ms

Loss rate: 3.97%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-10 23:20:42

End at: 2018-07-10 23:21:12

Local clock offset: -0.97 ms

Remote clock offset: 6.888 ms

Below is generated by plot.py at 2018-07-10 23:52:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.79 Mbit/s

95th percentile per-packet one-way delay: 111.551 ms

Loss rate: 13.16%

-- Flow 1:

Average throughput: 38.17 Mbit/s

95th percentile per-packet one-way delay: 111.285 ms

Loss rate: 12.04%

-- Flow 2:

Average throughput: 29.58 Mbit/s

95th percentile per-packet one-way delay: 112.503 ms

Loss rate: 14.08%

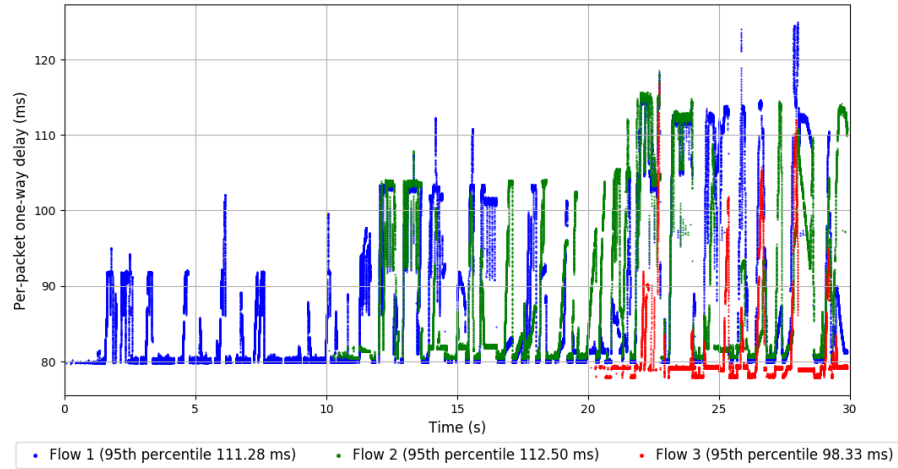
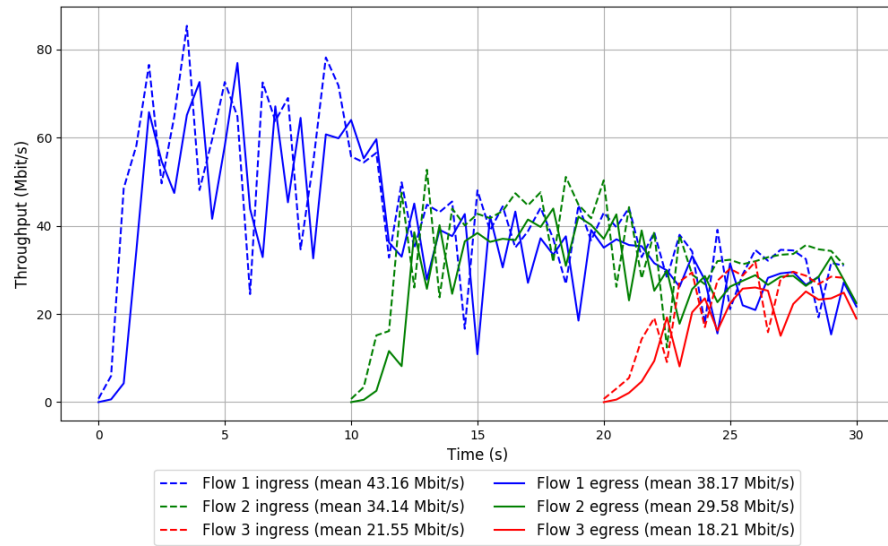
-- Flow 3:

Average throughput: 18.21 Mbit/s

95th percentile per-packet one-way delay: 98.333 ms

Loss rate: 16.92%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-07-10 23:41:59

End at: 2018-07-10 23:42:29

Local clock offset: -0.948 ms

Remote clock offset: 3.582 ms

Below is generated by plot.py at 2018-07-10 23:52:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.56 Mbit/s

95th percentile per-packet one-way delay: 119.602 ms

Loss rate: 1.89%

-- Flow 1:

Average throughput: 45.87 Mbit/s

95th percentile per-packet one-way delay: 115.727 ms

Loss rate: 1.38%

-- Flow 2:

Average throughput: 34.21 Mbit/s

95th percentile per-packet one-way delay: 119.760 ms

Loss rate: 2.15%

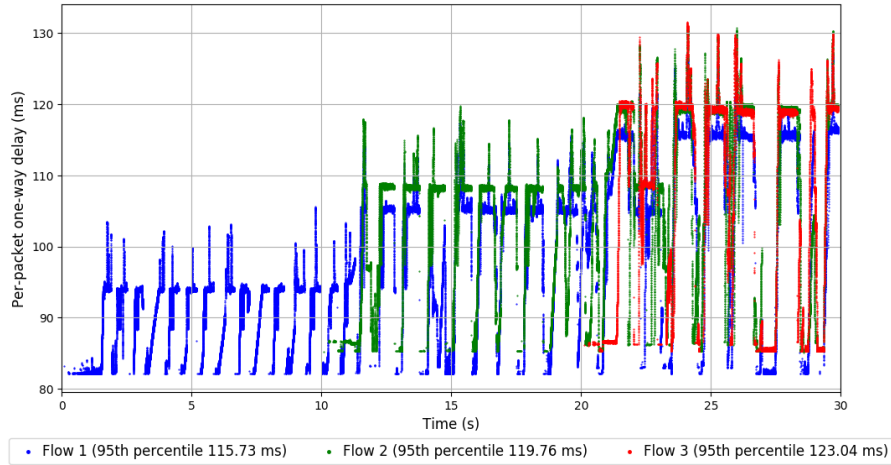
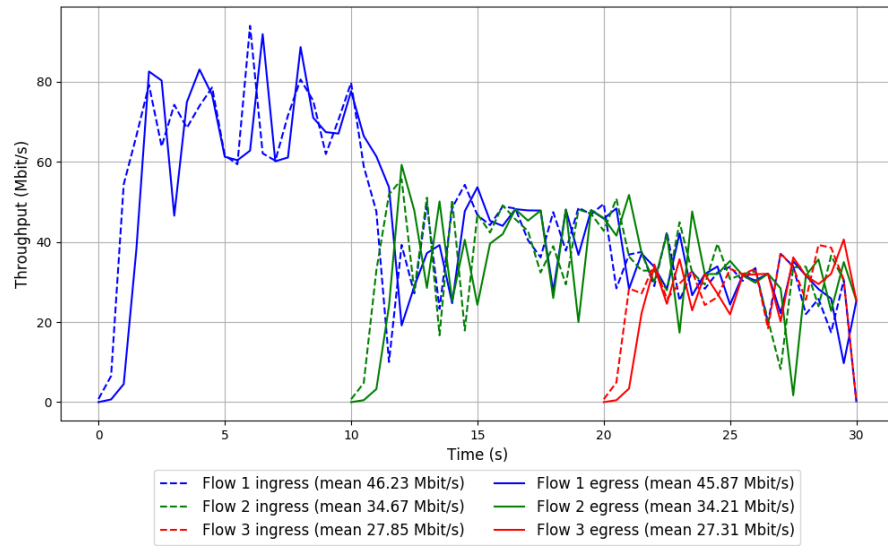
-- Flow 3:

Average throughput: 27.31 Mbit/s

95th percentile per-packet one-way delay: 123.039 ms

Loss rate: 3.75%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-07-10 20:16:00

End at: 2018-07-10 20:16:30

Local clock offset: -1.262 ms

Remote clock offset: 2.676 ms

Below is generated by plot.py at 2018-07-10 23:52:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.63 Mbit/s

95th percentile per-packet one-way delay: 103.748 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 29.85 Mbit/s

95th percentile per-packet one-way delay: 103.695 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 42.36 Mbit/s

95th percentile per-packet one-way delay: 104.012 ms

Loss rate: 0.81%

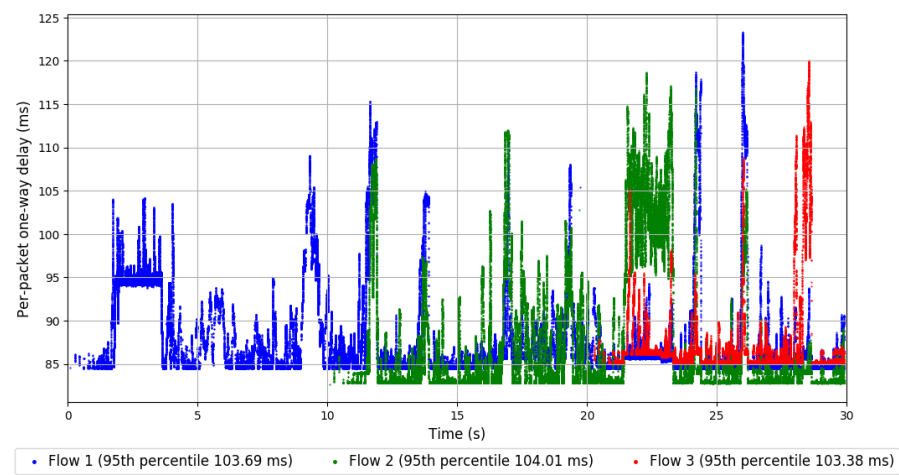
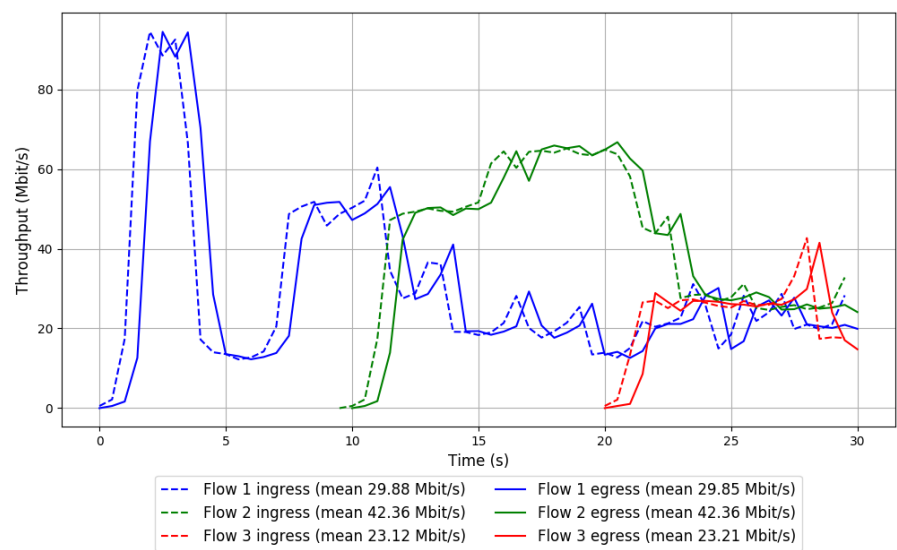
-- Flow 3:

Average throughput: 23.21 Mbit/s

95th percentile per-packet one-way delay: 103.381 ms

Loss rate: 1.32%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-07-10 20:37:07

End at: 2018-07-10 20:37:37

Local clock offset: -1.35 ms

Remote clock offset: 9.81 ms

Below is generated by plot.py at 2018-07-10 23:53:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.23 Mbit/s

95th percentile per-packet one-way delay: 106.901 ms

Loss rate: 14.77%

-- Flow 1:

Average throughput: 53.39 Mbit/s

95th percentile per-packet one-way delay: 108.165 ms

Loss rate: 12.22%

-- Flow 2:

Average throughput: 19.64 Mbit/s

95th percentile per-packet one-way delay: 100.856 ms

Loss rate: 20.94%

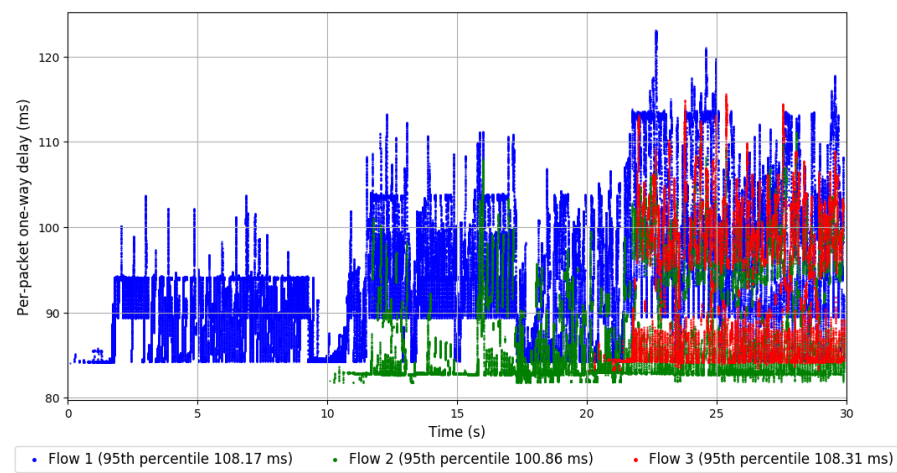
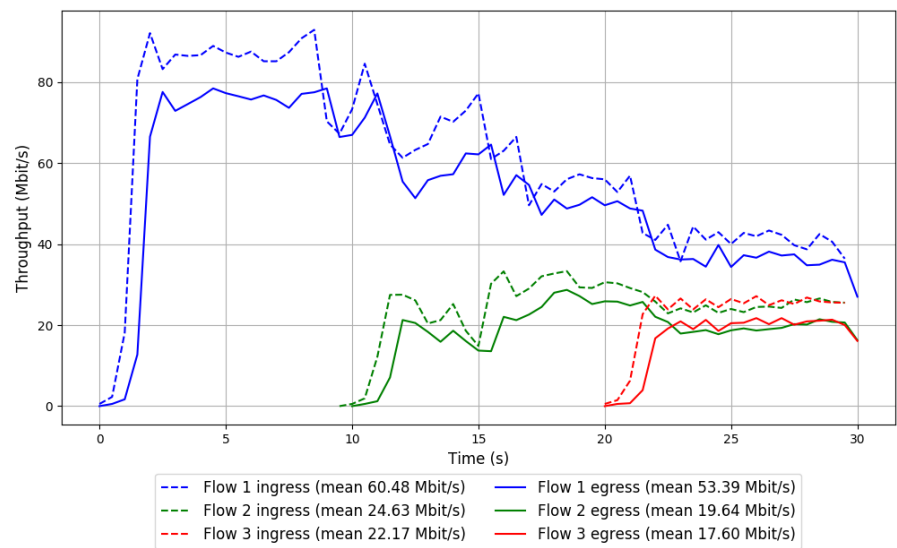
-- Flow 3:

Average throughput: 17.60 Mbit/s

95th percentile per-packet one-way delay: 108.310 ms

Loss rate: 21.97%

Run 2: Report of Copa — Data Link

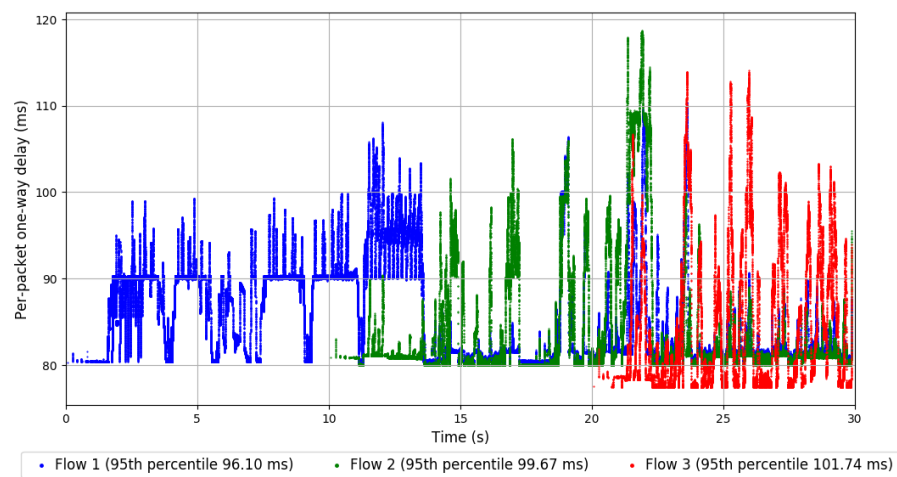
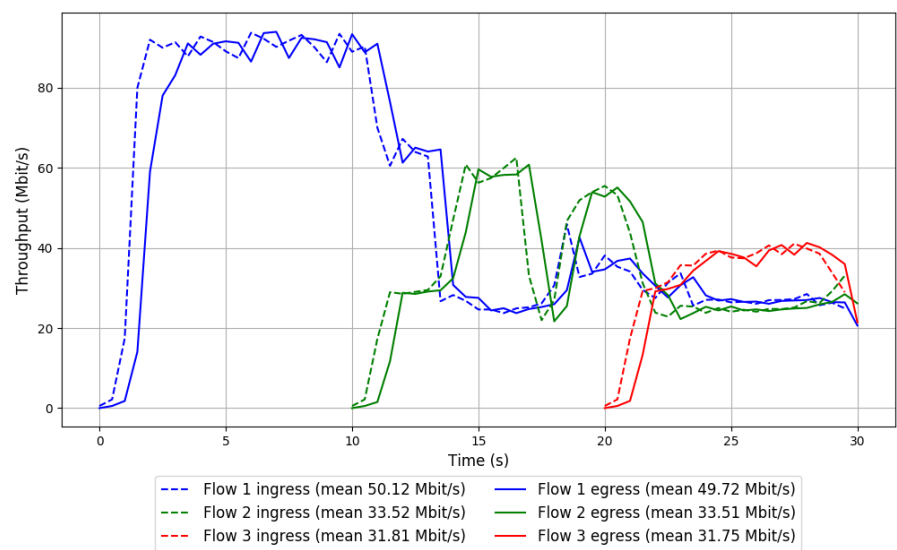


Run 3: Statistics of Copa

Start at: 2018-07-10 20:58:16
End at: 2018-07-10 20:58:46
Local clock offset: -1.505 ms
Remote clock offset: 17.078 ms

Below is generated by plot.py at 2018-07-10 23:53:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.42 Mbit/s
95th percentile per-packet one-way delay: 98.179 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 49.72 Mbit/s
95th percentile per-packet one-way delay: 96.103 ms
Loss rate: 1.35%
-- Flow 2:
Average throughput: 33.51 Mbit/s
95th percentile per-packet one-way delay: 99.668 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 31.75 Mbit/s
95th percentile per-packet one-way delay: 101.741 ms
Loss rate: 1.92%

Run 3: Report of Copa — Data Link

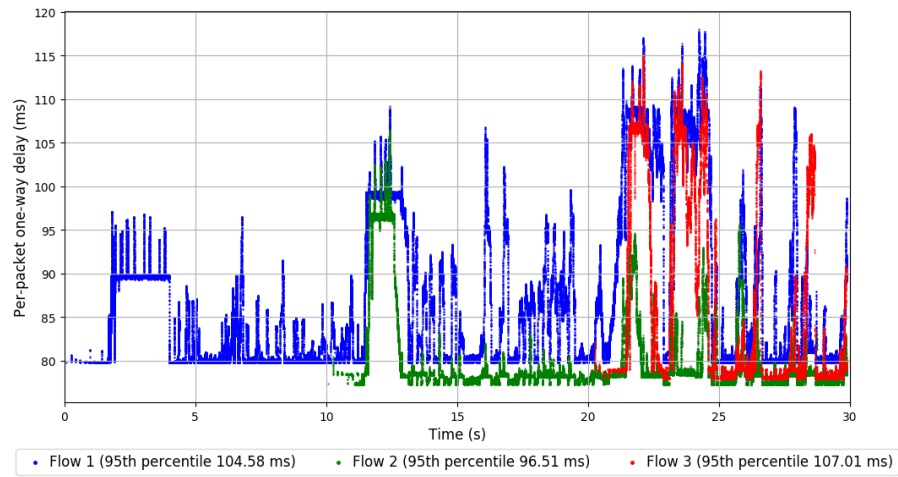
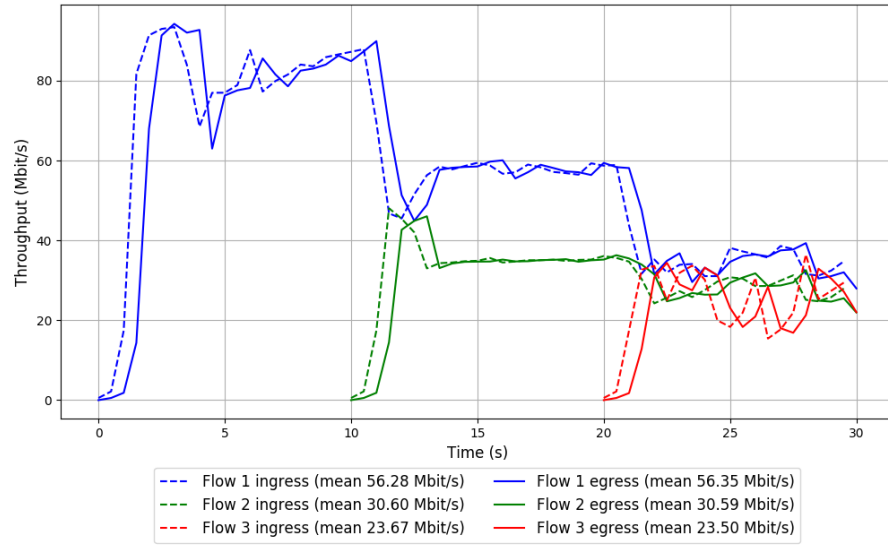


Run 4: Statistics of Copa

Start at: 2018-07-10 21:19:26
End at: 2018-07-10 21:19:56
Local clock offset: -1.576 ms
Remote clock offset: 15.326 ms

```
# Below is generated by plot.py at 2018-07-10 23:53:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.41 Mbit/s
95th percentile per-packet one-way delay: 104.614 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 56.35 Mbit/s
95th percentile per-packet one-way delay: 104.575 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 30.59 Mbit/s
95th percentile per-packet one-way delay: 96.509 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 23.50 Mbit/s
95th percentile per-packet one-way delay: 107.014 ms
Loss rate: 2.32%
```

Run 4: Report of Copa — Data Link

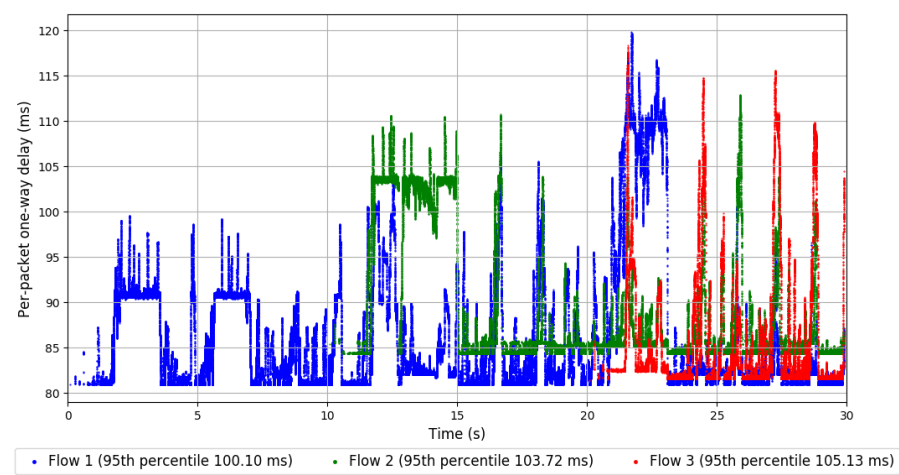
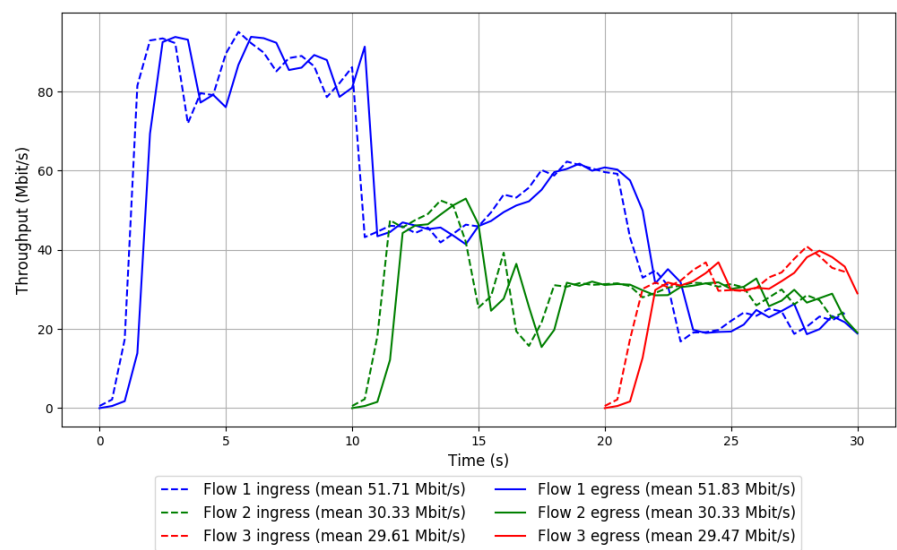


Run 5: Statistics of Copa

Start at: 2018-07-10 21:40:36
End at: 2018-07-10 21:41:06
Local clock offset: -1.397 ms
Remote clock offset: 11.603 ms

Below is generated by plot.py at 2018-07-10 23:53:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.67 Mbit/s
95th percentile per-packet one-way delay: 103.631 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 51.83 Mbit/s
95th percentile per-packet one-way delay: 100.099 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 30.33 Mbit/s
95th percentile per-packet one-way delay: 103.723 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 29.47 Mbit/s
95th percentile per-packet one-way delay: 105.130 ms
Loss rate: 2.08%

Run 5: Report of Copa — Data Link

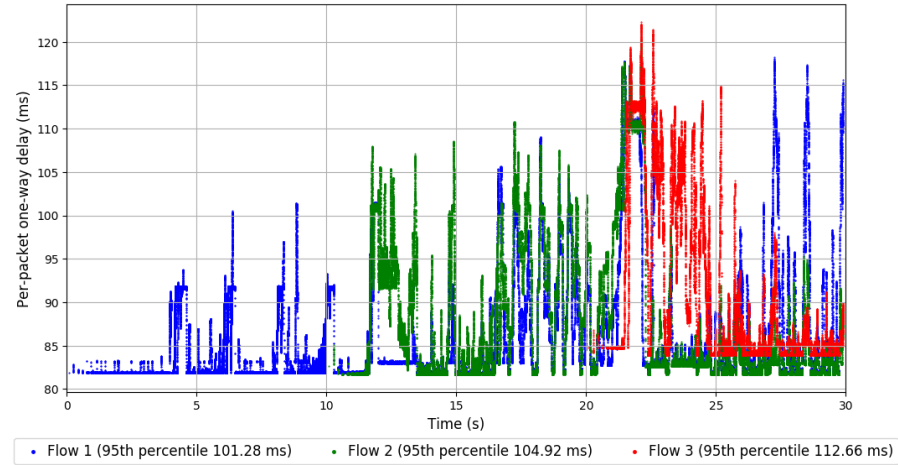
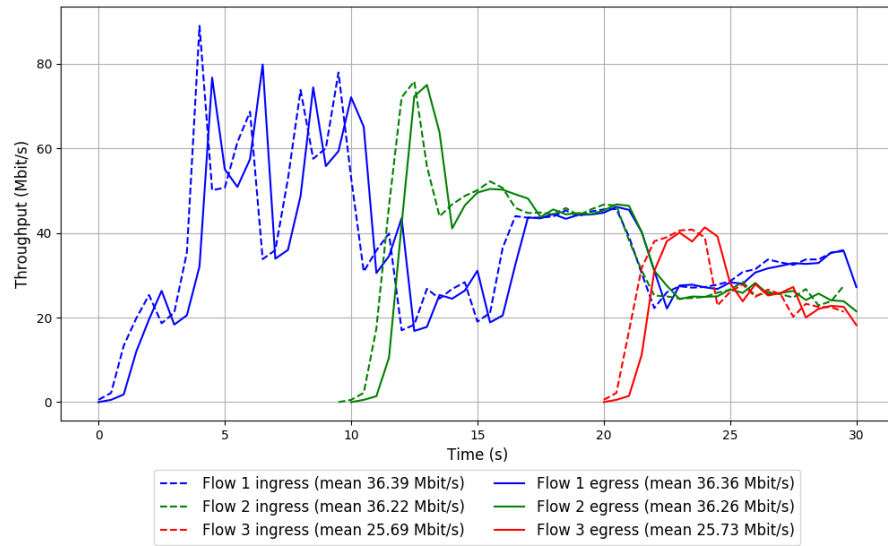


Run 6: Statistics of Copa

Start at: 2018-07-10 22:01:54
End at: 2018-07-10 22:02:24
Local clock offset: -1.223 ms
Remote clock offset: 12.018 ms

Below is generated by plot.py at 2018-07-10 23:53:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.91 Mbit/s
95th percentile per-packet one-way delay: 106.819 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 36.36 Mbit/s
95th percentile per-packet one-way delay: 101.280 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 36.26 Mbit/s
95th percentile per-packet one-way delay: 104.917 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 25.73 Mbit/s
95th percentile per-packet one-way delay: 112.656 ms
Loss rate: 1.51%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-07-10 22:23:07

End at: 2018-07-10 22:23:37

Local clock offset: -1.129 ms

Remote clock offset: 4.775 ms

Below is generated by plot.py at 2018-07-10 23:54:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.62 Mbit/s

95th percentile per-packet one-way delay: 109.808 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 48.61 Mbit/s

95th percentile per-packet one-way delay: 99.704 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 38.90 Mbit/s

95th percentile per-packet one-way delay: 112.467 ms

Loss rate: 0.73%

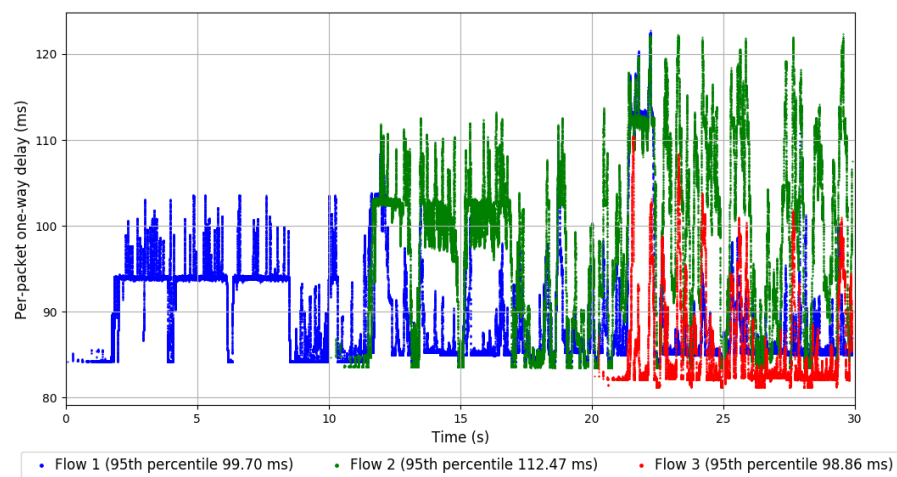
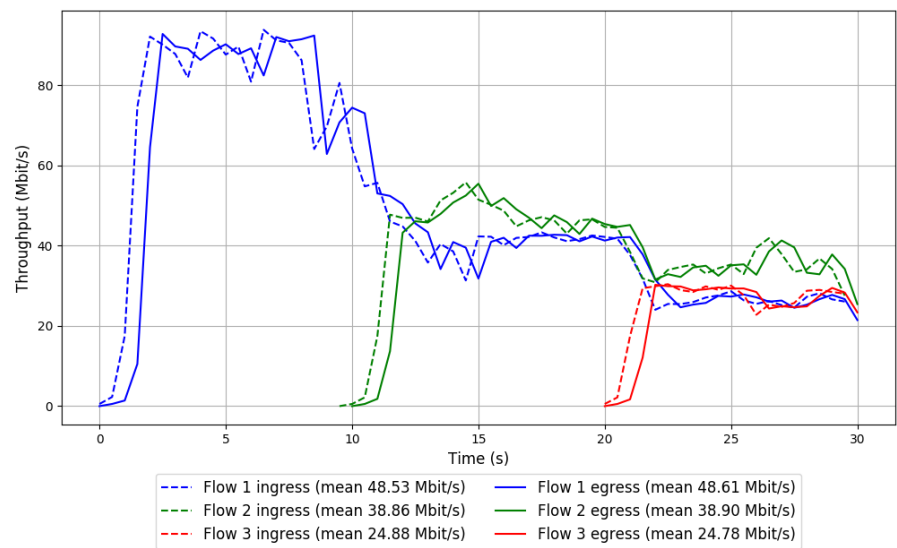
-- Flow 3:

Average throughput: 24.78 Mbit/s

95th percentile per-packet one-way delay: 98.860 ms

Loss rate: 2.04%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-07-10 22:44:24

End at: 2018-07-10 22:44:54

Local clock offset: -1.109 ms

Remote clock offset: 2.165 ms

Below is generated by plot.py at 2018-07-10 23:54:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.12 Mbit/s

95th percentile per-packet one-way delay: 102.782 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 55.72 Mbit/s

95th percentile per-packet one-way delay: 102.698 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 28.98 Mbit/s

95th percentile per-packet one-way delay: 103.681 ms

Loss rate: 0.84%

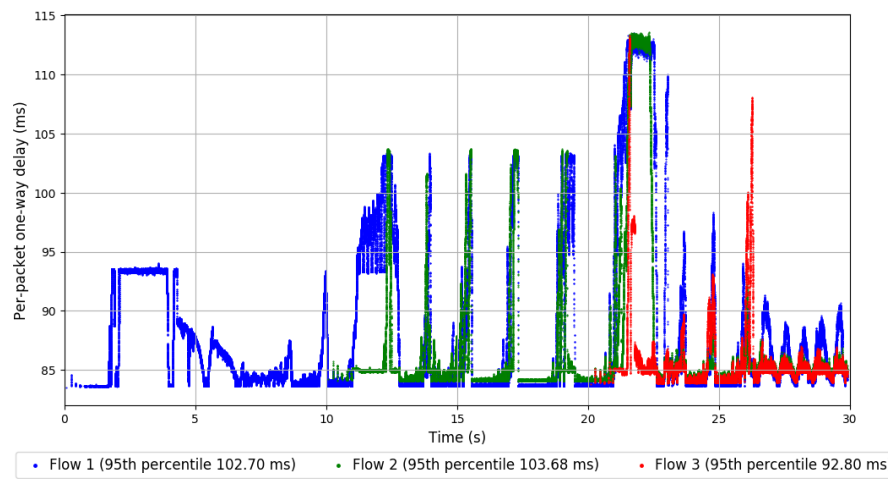
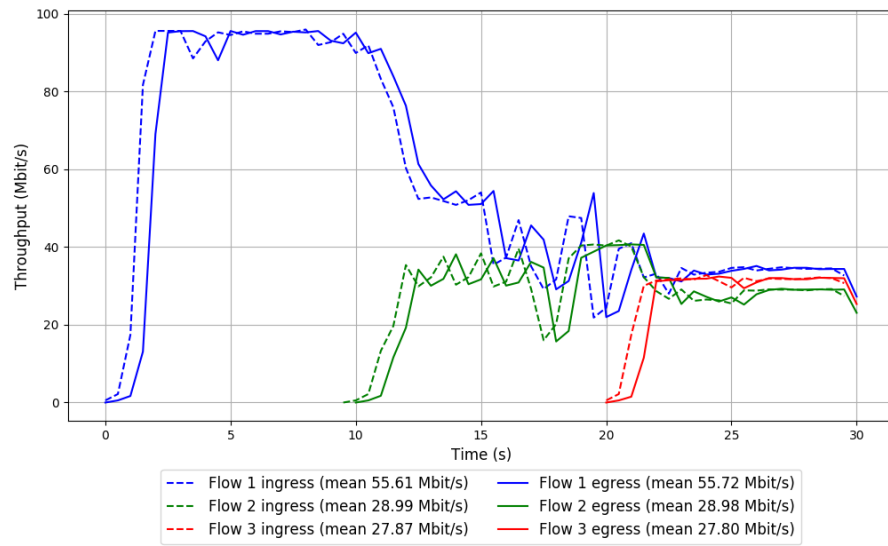
-- Flow 3:

Average throughput: 27.80 Mbit/s

95th percentile per-packet one-way delay: 92.800 ms

Loss rate: 1.93%

Run 8: Report of Copa — Data Link

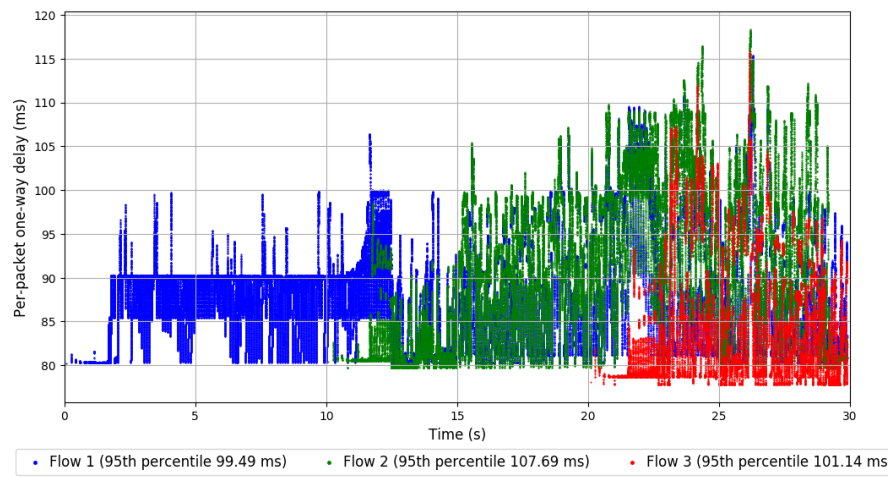
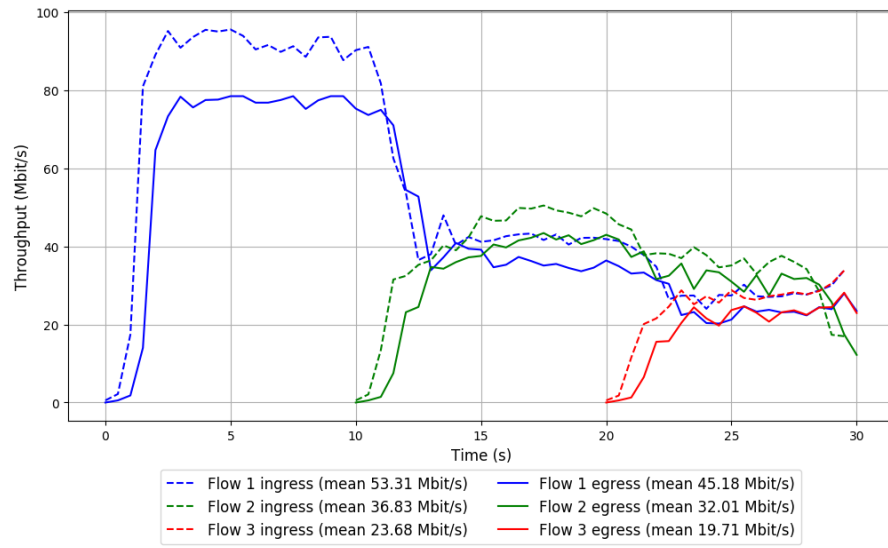


Run 9: Statistics of Copa

Start at: 2018-07-10 23:05:50
End at: 2018-07-10 23:06:20
Local clock offset: -0.983 ms
Remote clock offset: 6.3 ms

```
# Below is generated by plot.py at 2018-07-10 23:54:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.94 Mbit/s
95th percentile per-packet one-way delay: 103.135 ms
Loss rate: 15.39%
-- Flow 1:
Average throughput: 45.18 Mbit/s
95th percentile per-packet one-way delay: 99.488 ms
Loss rate: 15.71%
-- Flow 2:
Average throughput: 32.01 Mbit/s
95th percentile per-packet one-way delay: 107.690 ms
Loss rate: 13.81%
-- Flow 3:
Average throughput: 19.71 Mbit/s
95th percentile per-packet one-way delay: 101.145 ms
Loss rate: 18.13%
```

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-07-10 23:27:11

End at: 2018-07-10 23:27:41

Local clock offset: -1.032 ms

Remote clock offset: 8.046 ms

Below is generated by plot.py at 2018-07-10 23:54:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.13 Mbit/s

95th percentile per-packet one-way delay: 94.555 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 39.51 Mbit/s

95th percentile per-packet one-way delay: 88.936 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 42.96 Mbit/s

95th percentile per-packet one-way delay: 99.101 ms

Loss rate: 0.83%

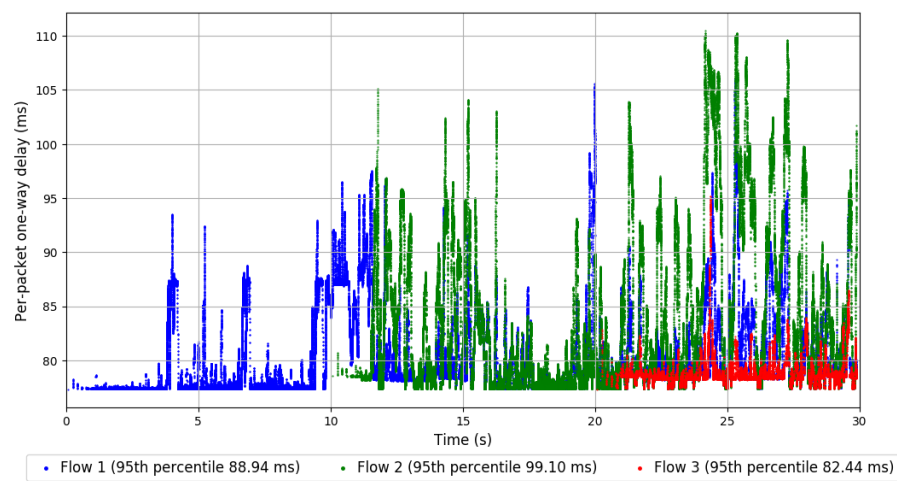
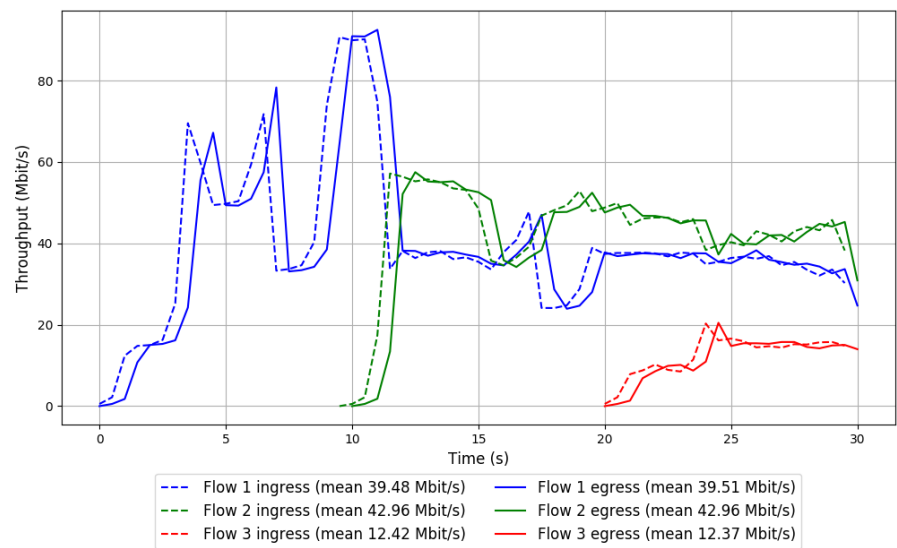
-- Flow 3:

Average throughput: 12.37 Mbit/s

95th percentile per-packet one-way delay: 82.439 ms

Loss rate: 1.98%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-07-10 20:21:01

End at: 2018-07-10 20:21:31

Local clock offset: -1.308 ms

Remote clock offset: 3.683 ms

Below is generated by plot.py at 2018-07-10 23:54:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.95 Mbit/s

95th percentile per-packet one-way delay: 96.011 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 38.08 Mbit/s

95th percentile per-packet one-way delay: 95.489 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 31.54 Mbit/s

95th percentile per-packet one-way delay: 104.071 ms

Loss rate: 0.70%

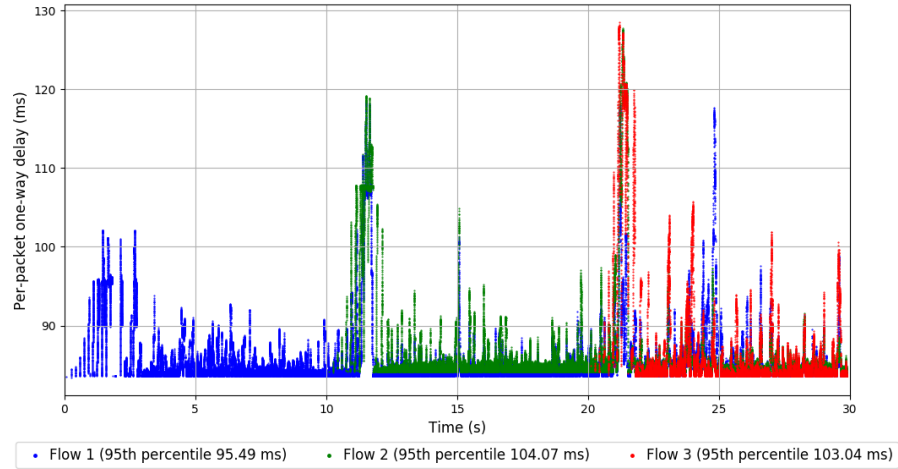
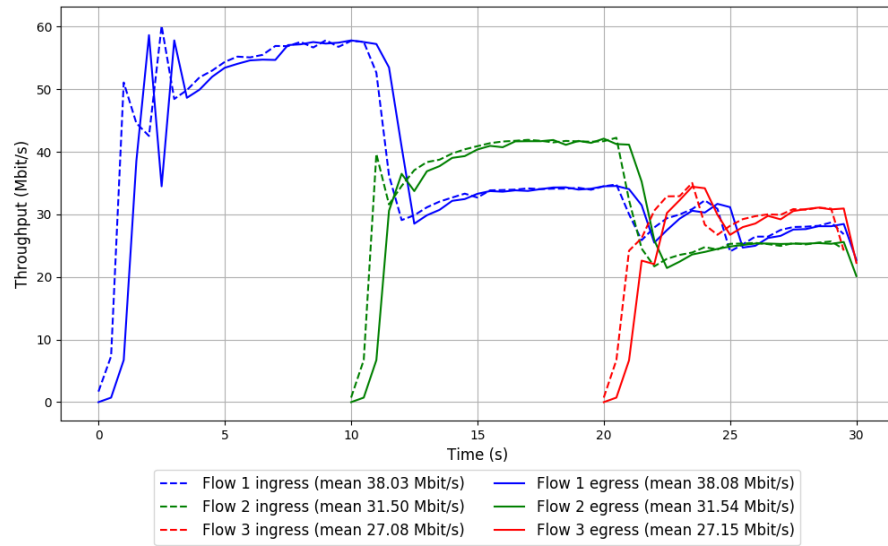
-- Flow 3:

Average throughput: 27.15 Mbit/s

95th percentile per-packet one-way delay: 103.037 ms

Loss rate: 1.38%

Run 1: Report of TCP Cubic — Data Link

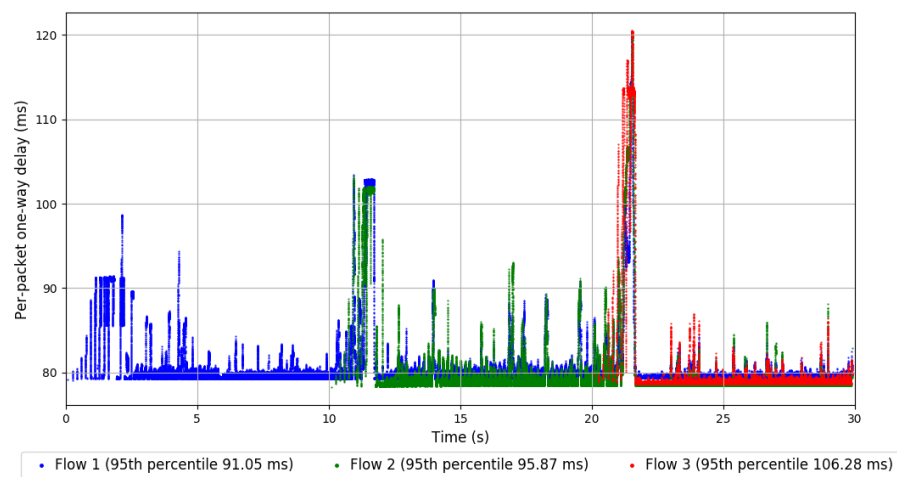
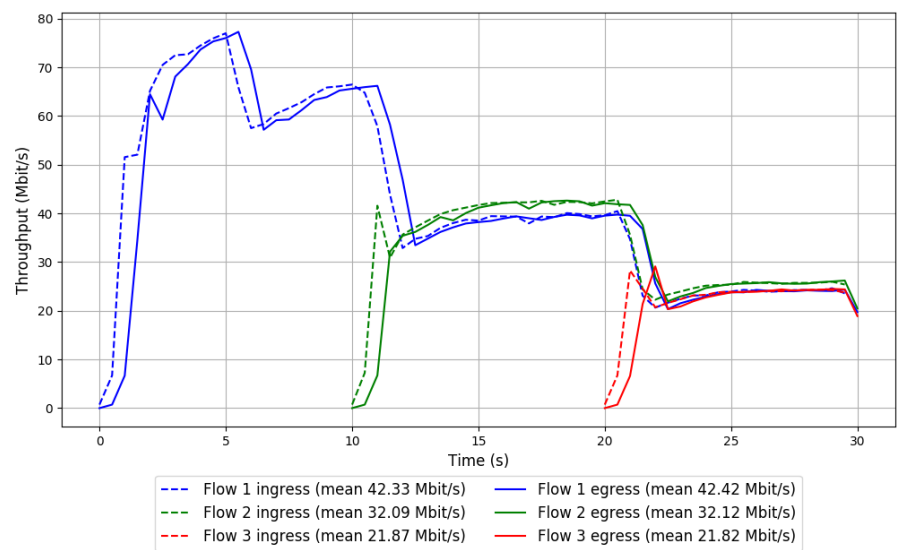


Run 2: Statistics of TCP Cubic

Start at: 2018-07-10 20:42:09
End at: 2018-07-10 20:42:39
Local clock offset: -1.395 ms
Remote clock offset: 13.924 ms

Below is generated by plot.py at 2018-07-10 23:54:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 70.93 Mbit/s
95th percentile per-packet one-way delay: 91.147 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 42.42 Mbit/s
95th percentile per-packet one-way delay: 91.047 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 32.12 Mbit/s
95th percentile per-packet one-way delay: 95.867 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 21.82 Mbit/s
95th percentile per-packet one-way delay: 106.283 ms
Loss rate: 1.88%

Run 2: Report of TCP Cubic — Data Link

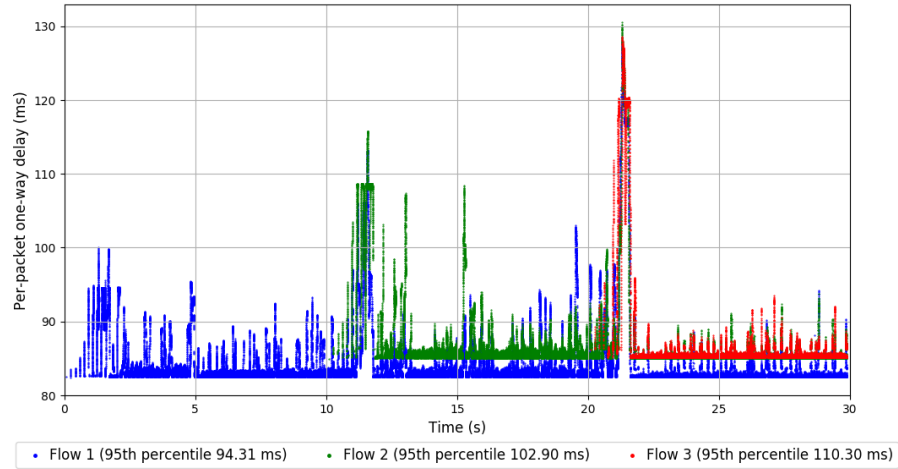
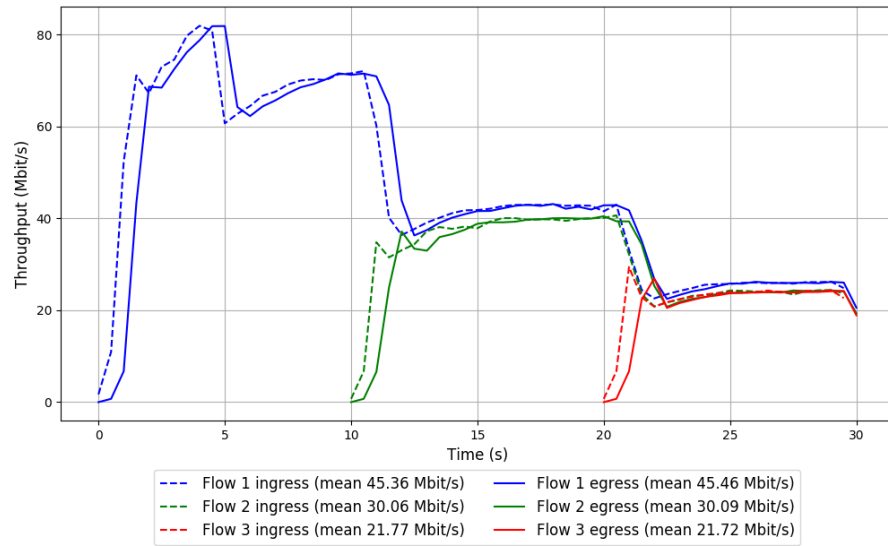


Run 3: Statistics of TCP Cubic

Start at: 2018-07-10 21:03:18
End at: 2018-07-10 21:03:48
Local clock offset: -1.518 ms
Remote clock offset: 11.519 ms

Below is generated by plot.py at 2018-07-10 23:54:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.57 Mbit/s
95th percentile per-packet one-way delay: 94.672 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 45.46 Mbit/s
95th percentile per-packet one-way delay: 94.313 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 30.09 Mbit/s
95th percentile per-packet one-way delay: 102.904 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 21.72 Mbit/s
95th percentile per-packet one-way delay: 110.302 ms
Loss rate: 1.90%

Run 3: Report of TCP Cubic — Data Link

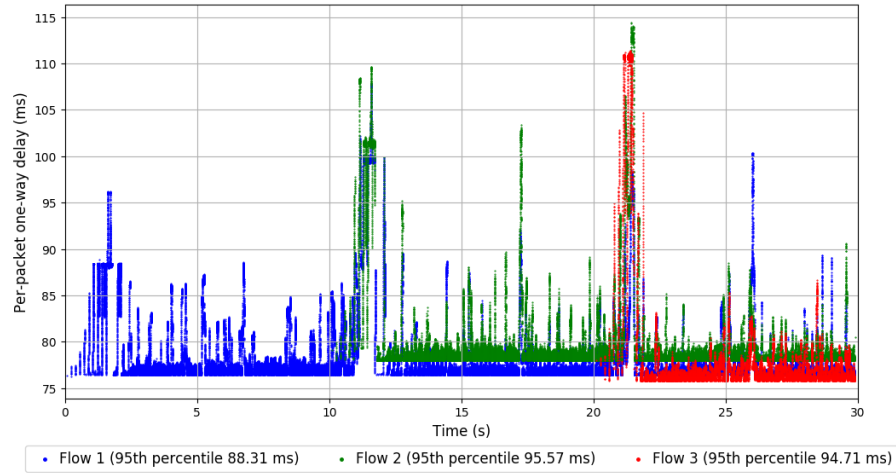
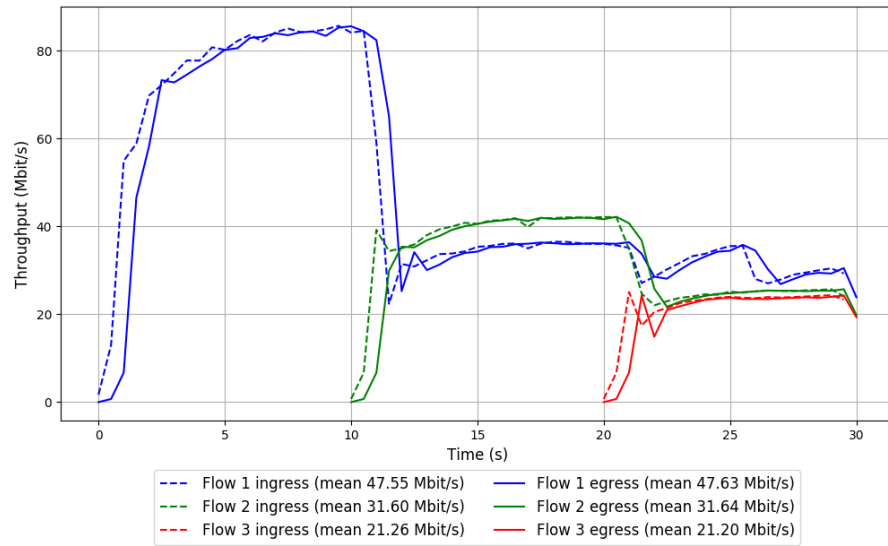


Run 4: Statistics of TCP Cubic

Start at: 2018-07-10 21:24:29
End at: 2018-07-10 21:24:59
Local clock offset: -1.459 ms
Remote clock offset: 16.485 ms

Below is generated by plot.py at 2018-07-10 23:54:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.61 Mbit/s
95th percentile per-packet one-way delay: 88.411 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 47.63 Mbit/s
95th percentile per-packet one-way delay: 88.310 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 31.64 Mbit/s
95th percentile per-packet one-way delay: 95.568 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 21.20 Mbit/s
95th percentile per-packet one-way delay: 94.707 ms
Loss rate: 1.93%

Run 4: Report of TCP Cubic — Data Link

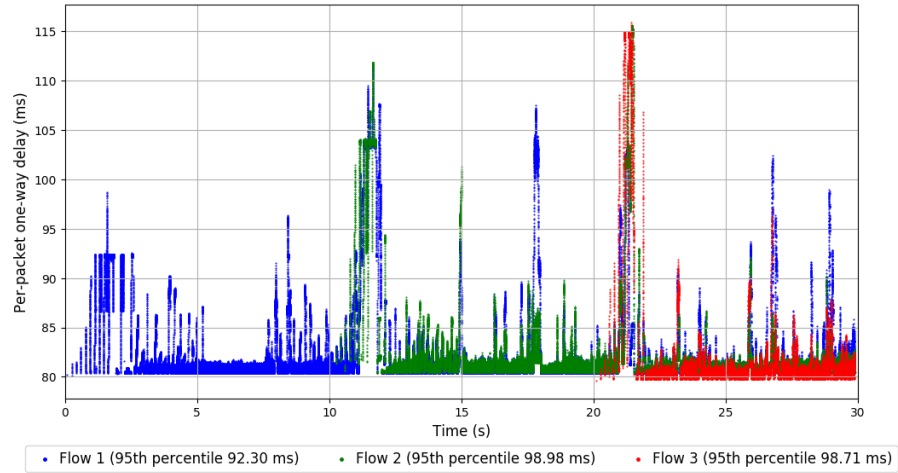
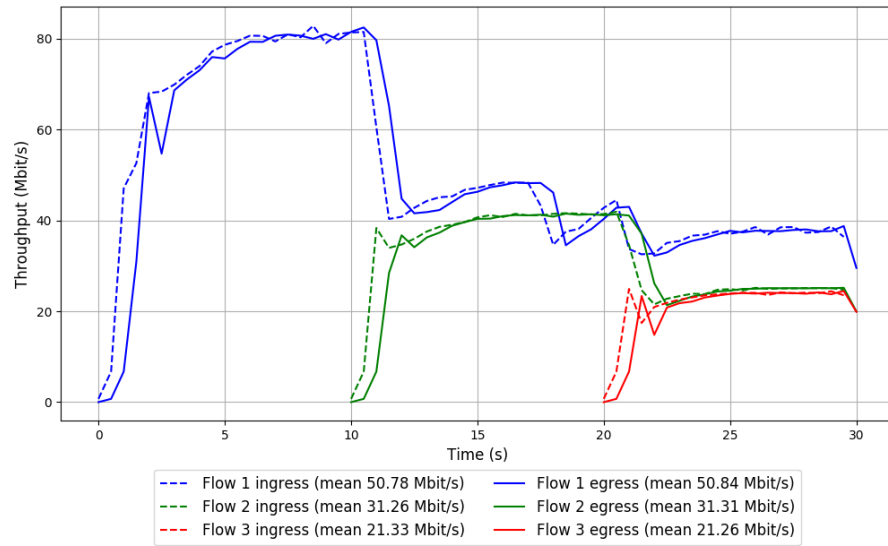


Run 5: Statistics of TCP Cubic

Start at: 2018-07-10 21:45:38
End at: 2018-07-10 21:46:08
Local clock offset: -1.336 ms
Remote clock offset: 15.513 ms

Below is generated by plot.py at 2018-07-10 23:54:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.62 Mbit/s
95th percentile per-packet one-way delay: 92.356 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 50.84 Mbit/s
95th percentile per-packet one-way delay: 92.301 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 31.31 Mbit/s
95th percentile per-packet one-way delay: 98.982 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 21.26 Mbit/s
95th percentile per-packet one-way delay: 98.706 ms
Loss rate: 1.97%

Run 5: Report of TCP Cubic — Data Link

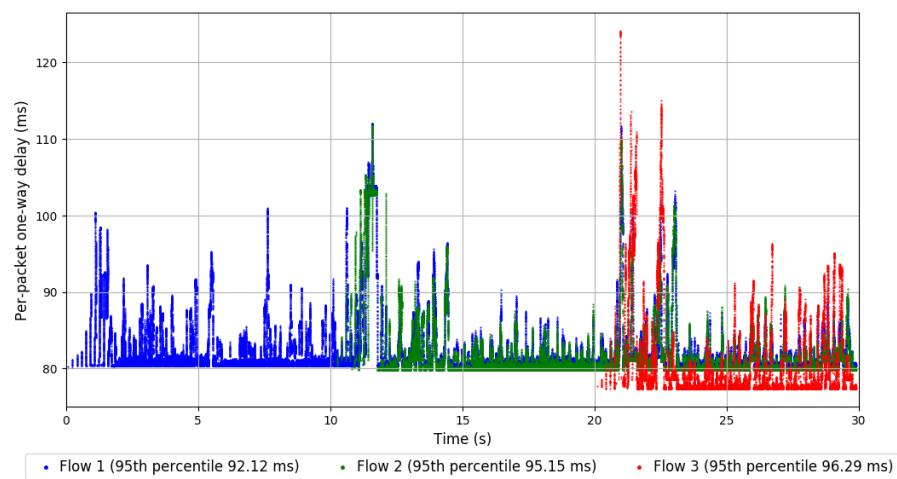
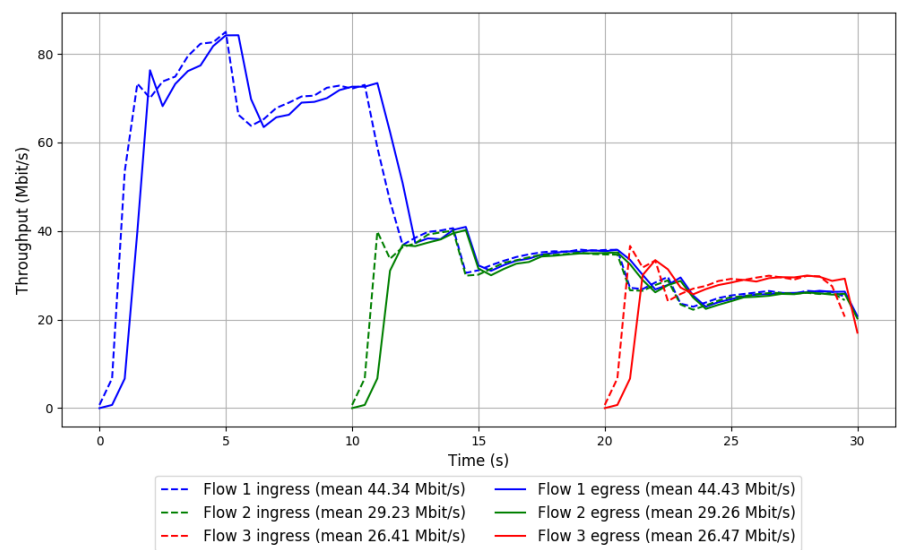


Run 6: Statistics of TCP Cubic

Start at: 2018-07-10 22:06:55
End at: 2018-07-10 22:07:25
Local clock offset: -1.208 ms
Remote clock offset: 16.239 ms

Below is generated by plot.py at 2018-07-10 23:54:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.56 Mbit/s
95th percentile per-packet one-way delay: 92.330 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 44.43 Mbit/s
95th percentile per-packet one-way delay: 92.118 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 29.26 Mbit/s
95th percentile per-packet one-way delay: 95.152 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 26.47 Mbit/s
95th percentile per-packet one-way delay: 96.286 ms
Loss rate: 1.42%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-07-10 22:28:09

End at: 2018-07-10 22:28:39

Local clock offset: -1.054 ms

Remote clock offset: 6.544 ms

Below is generated by plot.py at 2018-07-10 23:54:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.83 Mbit/s

95th percentile per-packet one-way delay: 92.996 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 36.49 Mbit/s

95th percentile per-packet one-way delay: 92.783 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 30.96 Mbit/s

95th percentile per-packet one-way delay: 97.949 ms

Loss rate: 0.70%

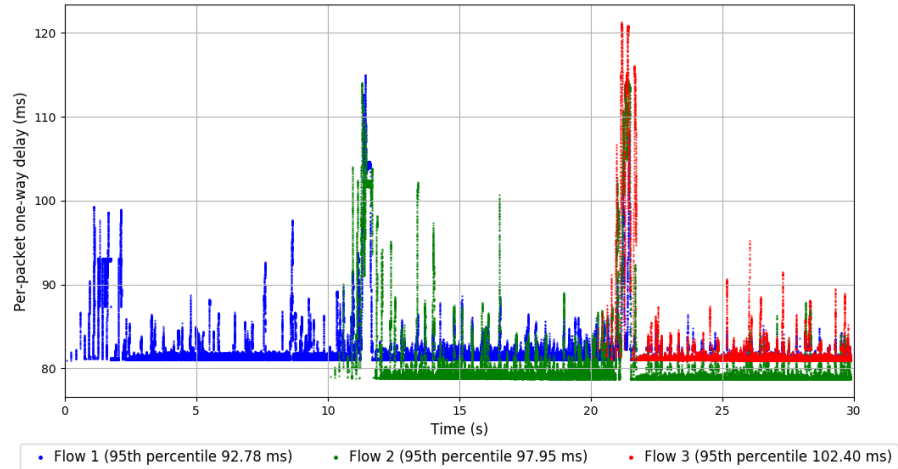
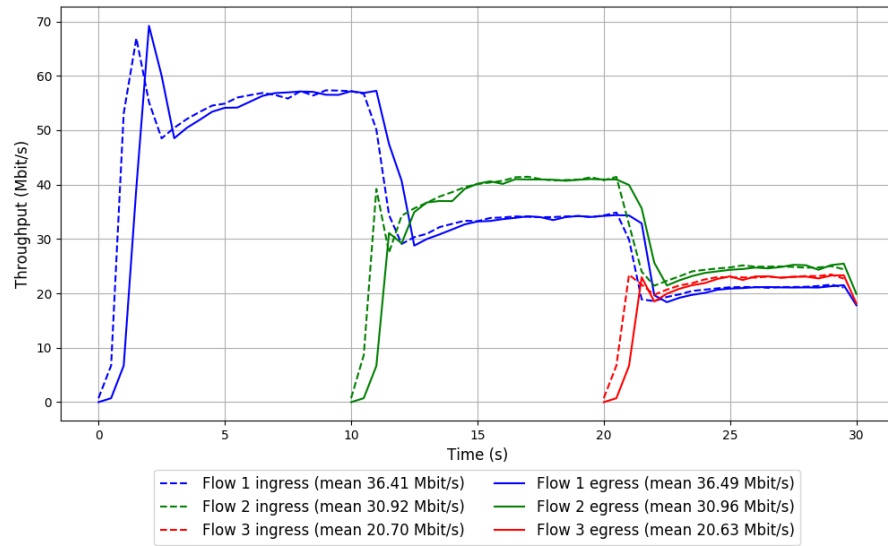
-- Flow 3:

Average throughput: 20.63 Mbit/s

95th percentile per-packet one-way delay: 102.402 ms

Loss rate: 1.96%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-07-10 22:49:26

End at: 2018-07-10 22:49:56

Local clock offset: -1.1 ms

Remote clock offset: 5.298 ms

Below is generated by plot.py at 2018-07-10 23:55:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.23 Mbit/s

95th percentile per-packet one-way delay: 92.556 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 48.32 Mbit/s

95th percentile per-packet one-way delay: 92.452 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 32.18 Mbit/s

95th percentile per-packet one-way delay: 96.003 ms

Loss rate: 0.68%

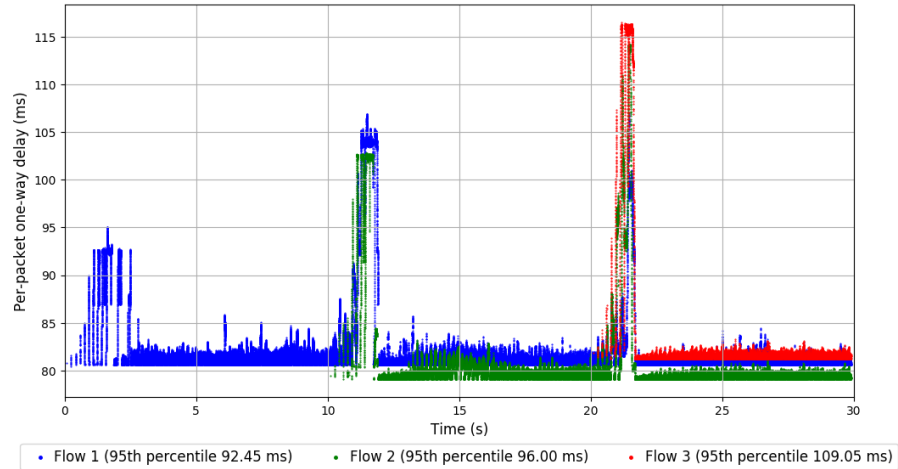
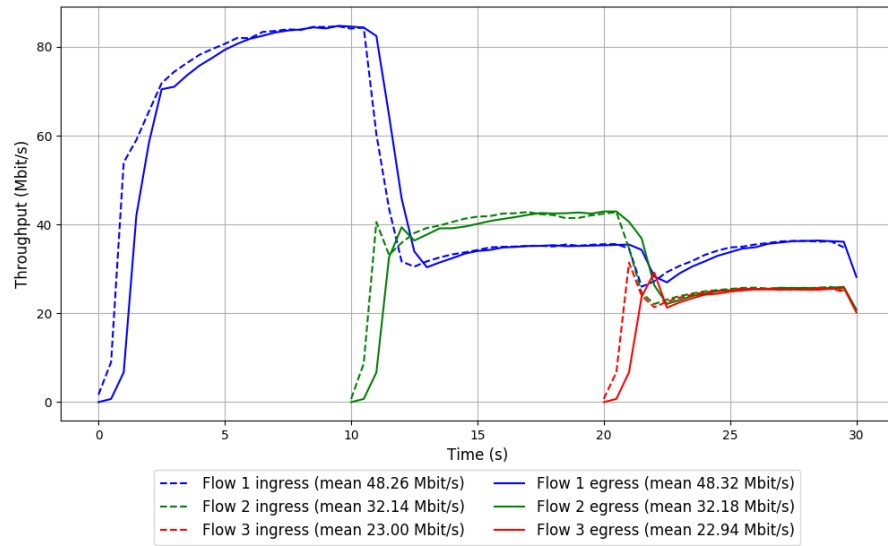
-- Flow 3:

Average throughput: 22.94 Mbit/s

95th percentile per-packet one-way delay: 109.049 ms

Loss rate: 1.90%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-07-10 23:10:54

End at: 2018-07-10 23:11:24

Local clock offset: -1.044 ms

Remote clock offset: 1.1 ms

Below is generated by plot.py at 2018-07-10 23:55:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.49 Mbit/s

95th percentile per-packet one-way delay: 96.631 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 47.54 Mbit/s

95th percentile per-packet one-way delay: 96.528 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 33.00 Mbit/s

95th percentile per-packet one-way delay: 101.048 ms

Loss rate: 0.70%

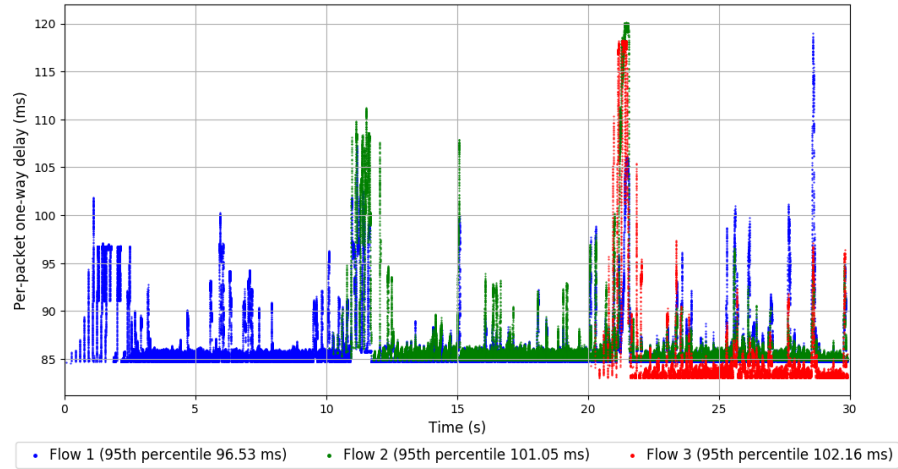
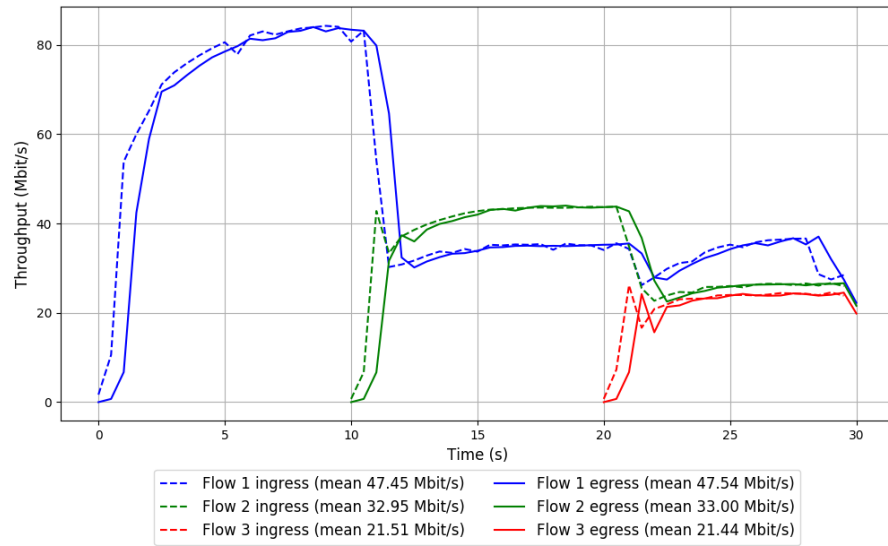
-- Flow 3:

Average throughput: 21.44 Mbit/s

95th percentile per-packet one-way delay: 102.160 ms

Loss rate: 1.92%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-07-10 23:32:13

End at: 2018-07-10 23:32:43

Local clock offset: -0.941 ms

Remote clock offset: 8.317 ms

Below is generated by plot.py at 2018-07-10 23:55:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.82 Mbit/s

95th percentile per-packet one-way delay: 89.733 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 49.24 Mbit/s

95th percentile per-packet one-way delay: 87.381 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 31.20 Mbit/s

95th percentile per-packet one-way delay: 100.317 ms

Loss rate: 0.70%

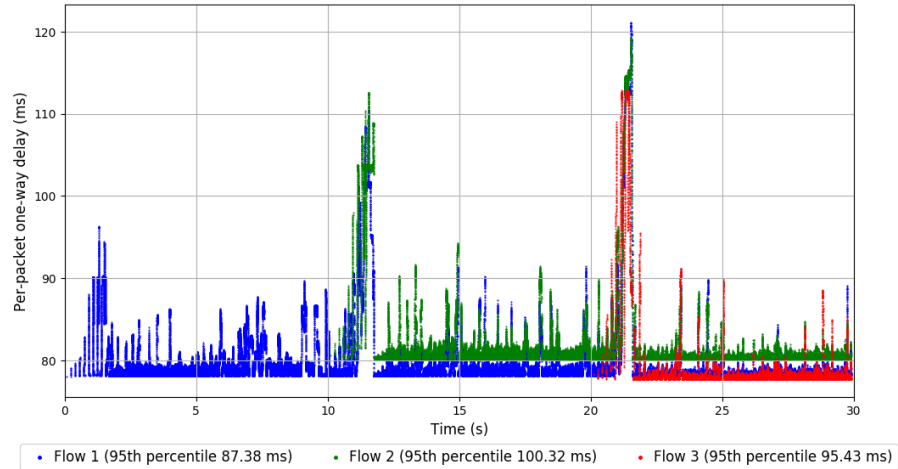
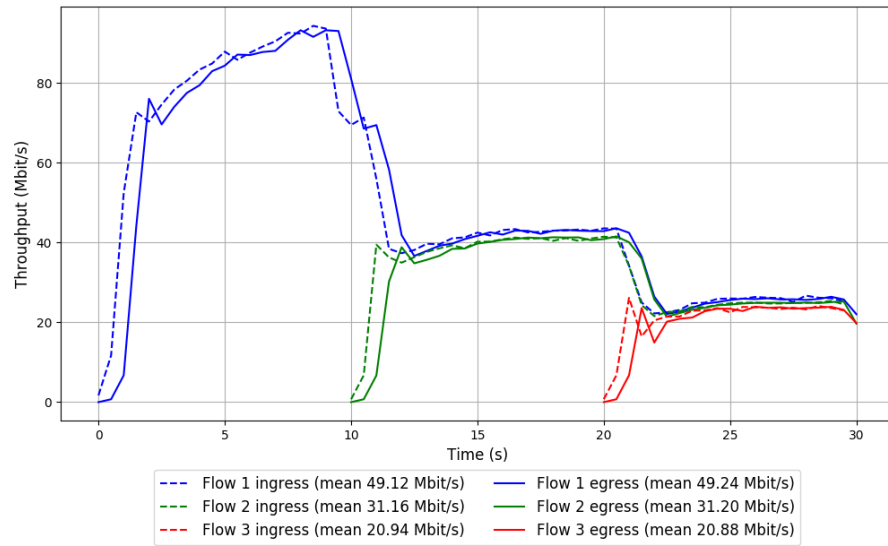
-- Flow 3:

Average throughput: 20.88 Mbit/s

95th percentile per-packet one-way delay: 95.427 ms

Loss rate: 1.96%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-07-10 20:34:34

End at: 2018-07-10 20:35:04

Local clock offset: -1.365 ms

Remote clock offset: 12.81 ms

Below is generated by plot.py at 2018-07-10 23:55:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.05 Mbit/s

95th percentile per-packet one-way delay: 108.429 ms

Loss rate: 2.79%

-- Flow 1:

Average throughput: 55.86 Mbit/s

95th percentile per-packet one-way delay: 105.812 ms

Loss rate: 1.81%

-- Flow 2:

Average throughput: 37.39 Mbit/s

95th percentile per-packet one-way delay: 107.976 ms

Loss rate: 3.89%

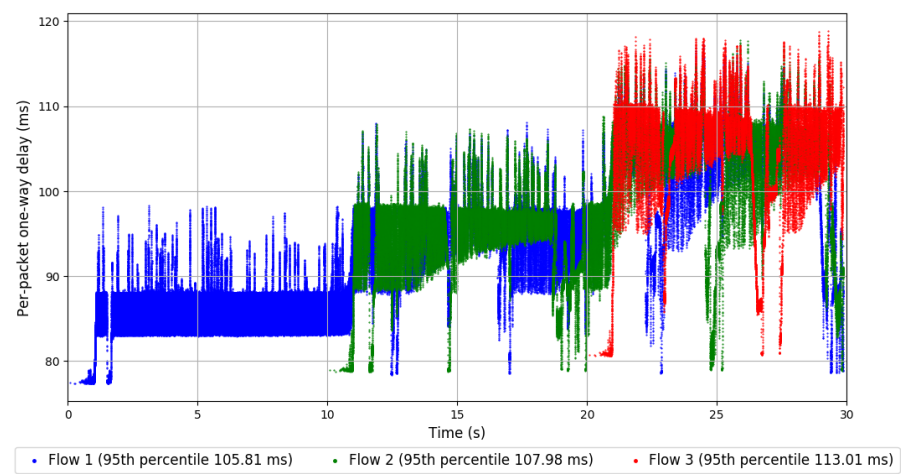
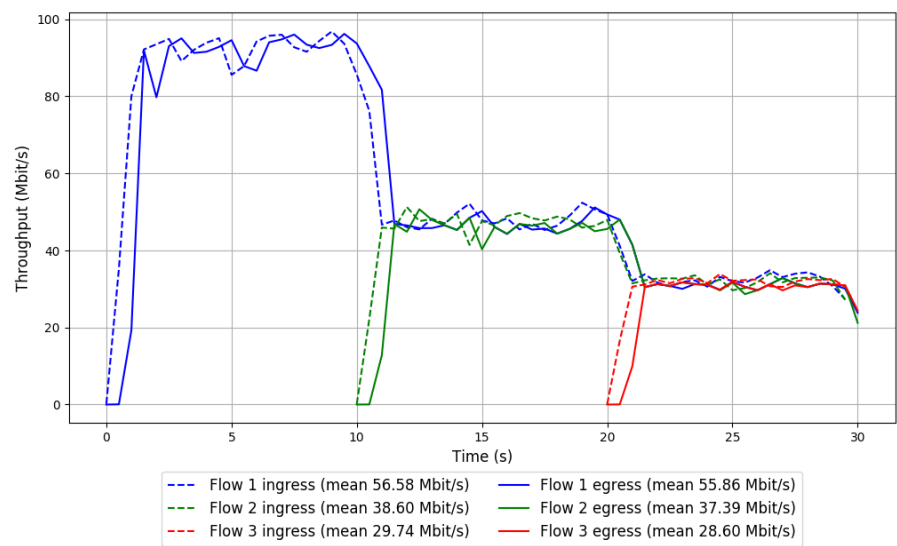
-- Flow 3:

Average throughput: 28.60 Mbit/s

95th percentile per-packet one-way delay: 113.013 ms

Loss rate: 5.51%

Run 1: Report of FillP — Data Link

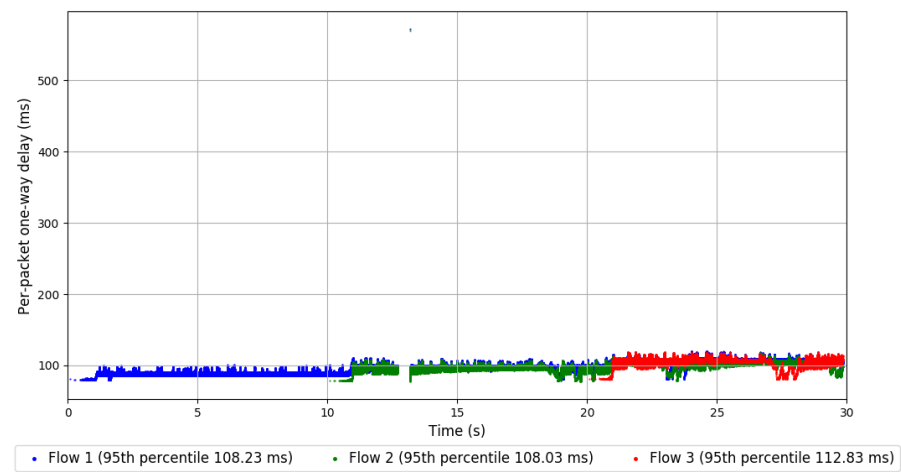
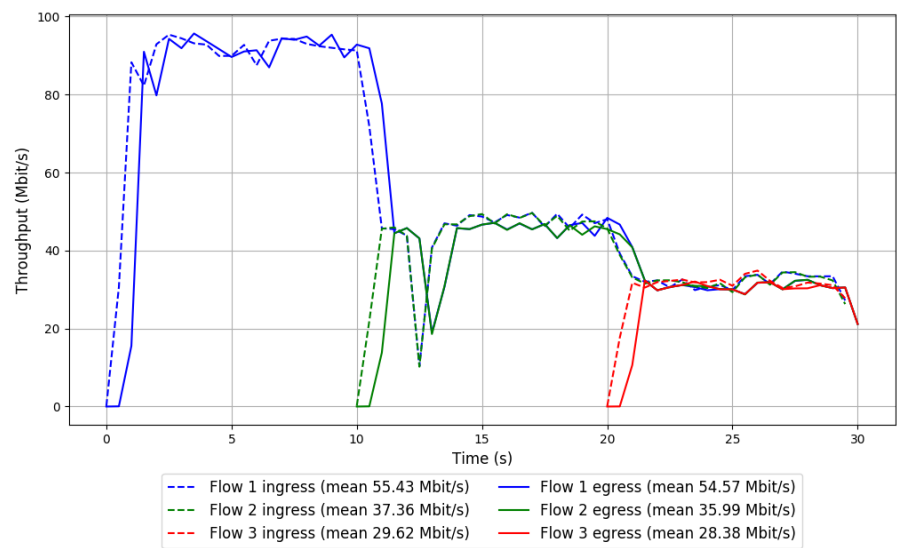


Run 2: Statistics of FillP

Start at: 2018-07-10 20:55:45
End at: 2018-07-10 20:56:15
Local clock offset: -1.446 ms
Remote clock offset: 16.808 ms

Below is generated by plot.py at 2018-07-10 23:55:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.77 Mbit/s
95th percentile per-packet one-way delay: 109.067 ms
Loss rate: 3.15%
-- Flow 1:
Average throughput: 54.57 Mbit/s
95th percentile per-packet one-way delay: 108.233 ms
Loss rate: 2.07%
-- Flow 2:
Average throughput: 35.99 Mbit/s
95th percentile per-packet one-way delay: 108.035 ms
Loss rate: 4.47%
-- Flow 3:
Average throughput: 28.38 Mbit/s
95th percentile per-packet one-way delay: 112.831 ms
Loss rate: 5.86%

Run 2: Report of FillP — Data Link

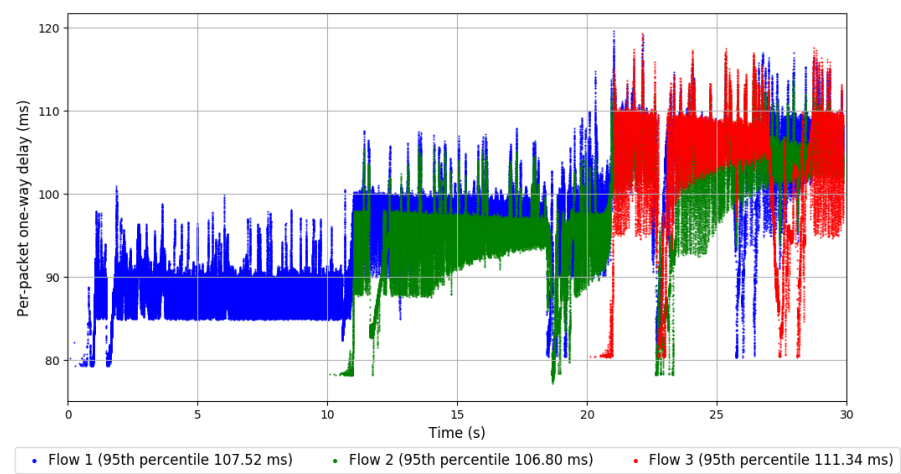
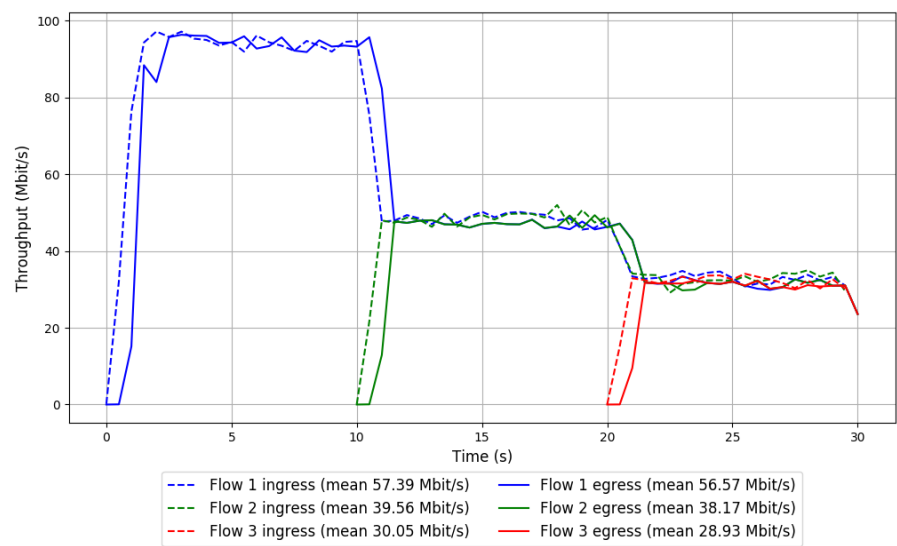


Run 3: Statistics of FillP

Start at: 2018-07-10 21:16:53
End at: 2018-07-10 21:17:23
Local clock offset: -1.486 ms
Remote clock offset: 15.269 ms

Below is generated by plot.py at 2018-07-10 23:56:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.38 Mbit/s
95th percentile per-packet one-way delay: 108.182 ms
Loss rate: 3.01%
-- Flow 1:
Average throughput: 56.57 Mbit/s
95th percentile per-packet one-way delay: 107.519 ms
Loss rate: 2.00%
-- Flow 2:
Average throughput: 38.17 Mbit/s
95th percentile per-packet one-way delay: 106.804 ms
Loss rate: 4.28%
-- Flow 3:
Average throughput: 28.93 Mbit/s
95th percentile per-packet one-way delay: 111.342 ms
Loss rate: 5.44%

Run 3: Report of FillP — Data Link

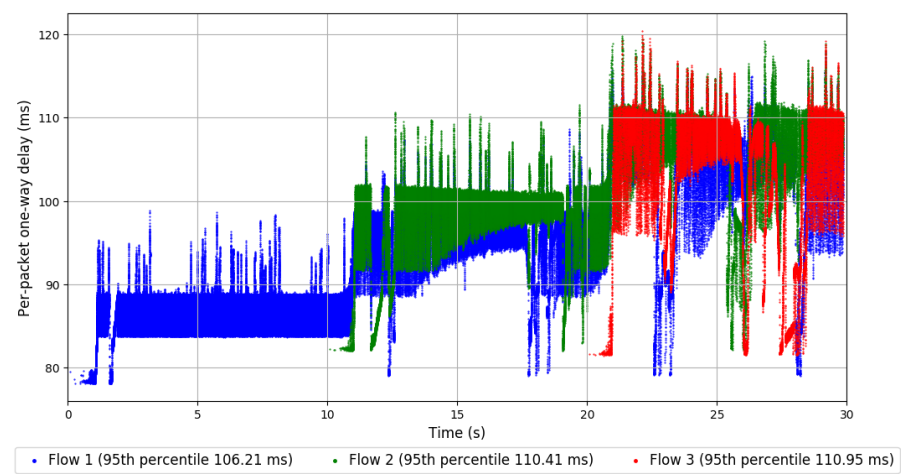
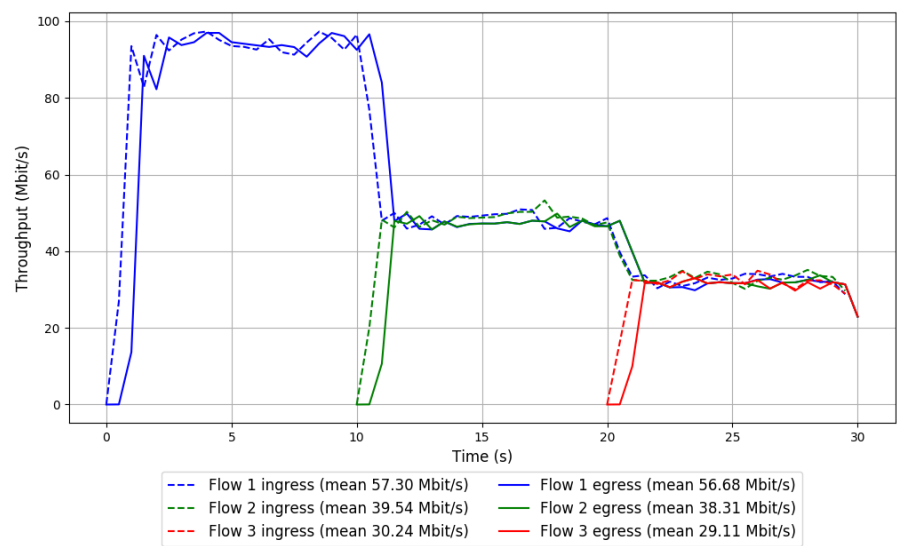


Run 4: Statistics of FillP

Start at: 2018-07-10 21:38:04
End at: 2018-07-10 21:38:34
Local clock offset: -1.492 ms
Remote clock offset: 14.331 ms

Below is generated by plot.py at 2018-07-10 23:56:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.66 Mbit/s
95th percentile per-packet one-way delay: 109.337 ms
Loss rate: 2.69%
-- Flow 1:
Average throughput: 56.68 Mbit/s
95th percentile per-packet one-way delay: 106.214 ms
Loss rate: 1.66%
-- Flow 2:
Average throughput: 38.31 Mbit/s
95th percentile per-packet one-way delay: 110.412 ms
Loss rate: 3.93%
-- Flow 3:
Average throughput: 29.11 Mbit/s
95th percentile per-packet one-way delay: 110.951 ms
Loss rate: 5.34%

Run 4: Report of FillP — Data Link

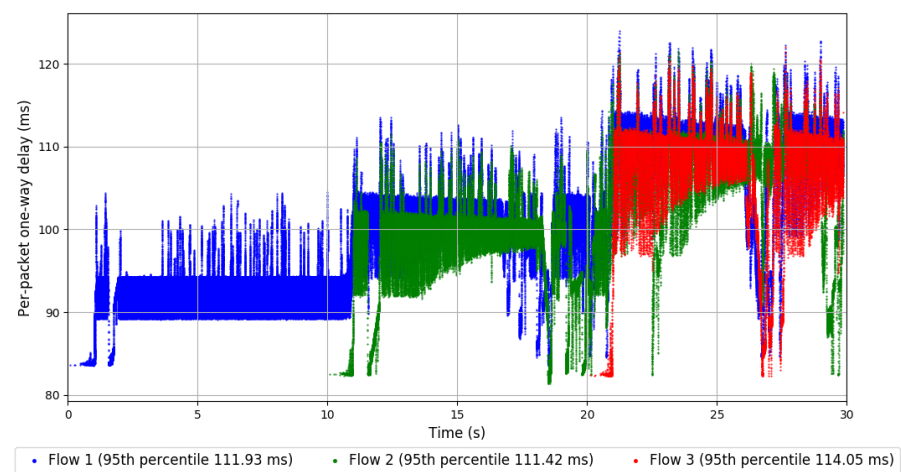
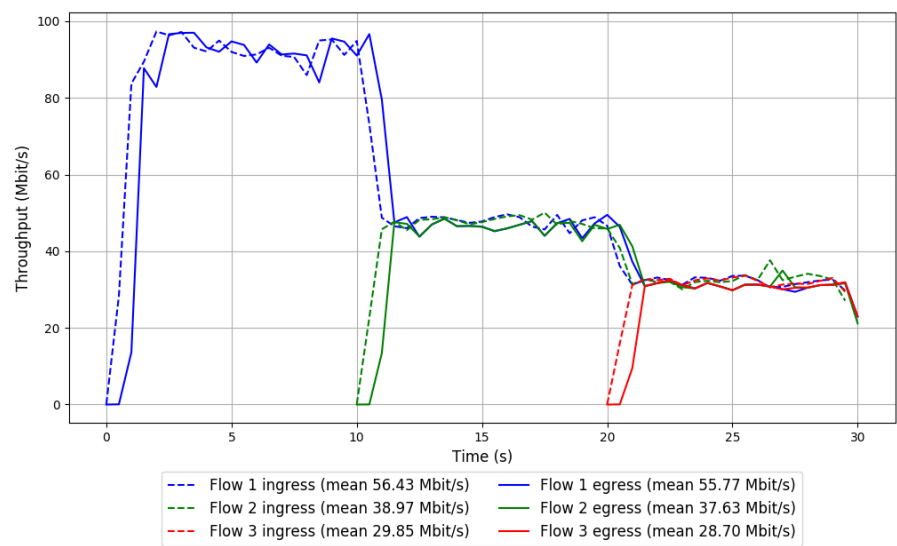


Run 5: Statistics of FillP

Start at: 2018-07-10 21:59:13
End at: 2018-07-10 21:59:43
Local clock offset: -1.242 ms
Remote clock offset: 12.103 ms

Below is generated by plot.py at 2018-07-10 23:56:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.14 Mbit/s
95th percentile per-packet one-way delay: 112.090 ms
Loss rate: 2.83%
-- Flow 1:
Average throughput: 55.77 Mbit/s
95th percentile per-packet one-way delay: 111.931 ms
Loss rate: 1.72%
-- Flow 2:
Average throughput: 37.63 Mbit/s
95th percentile per-packet one-way delay: 111.416 ms
Loss rate: 4.22%
-- Flow 3:
Average throughput: 28.70 Mbit/s
95th percentile per-packet one-way delay: 114.054 ms
Loss rate: 5.53%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-10 22:20:35

End at: 2018-07-10 22:21:05

Local clock offset: -1.174 ms

Remote clock offset: 9.449 ms

Below is generated by plot.py at 2018-07-10 23:56:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.02 Mbit/s

95th percentile per-packet one-way delay: 108.828 ms

Loss rate: 2.98%

-- Flow 1:

Average throughput: 55.05 Mbit/s

95th percentile per-packet one-way delay: 107.871 ms

Loss rate: 1.86%

-- Flow 2:

Average throughput: 37.17 Mbit/s

95th percentile per-packet one-way delay: 109.793 ms

Loss rate: 4.11%

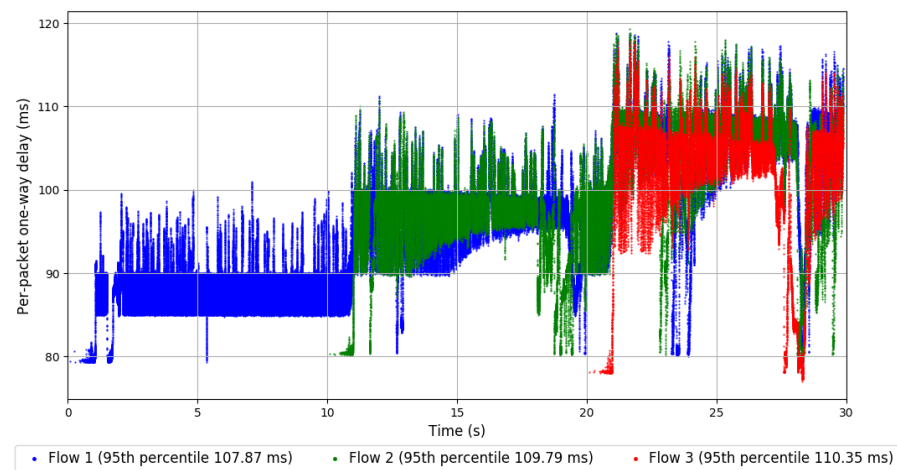
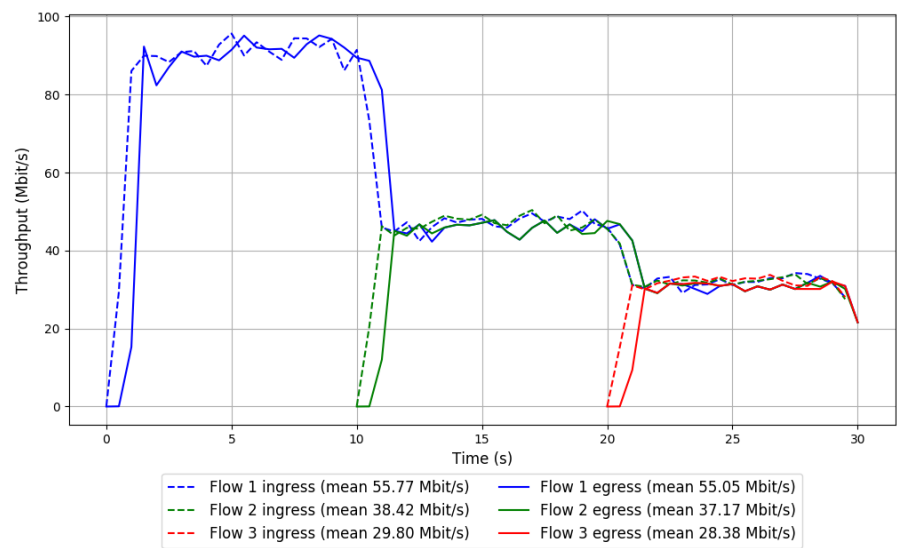
-- Flow 3:

Average throughput: 28.38 Mbit/s

95th percentile per-packet one-way delay: 110.349 ms

Loss rate: 6.35%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-07-10 22:41:52

End at: 2018-07-10 22:42:22

Local clock offset: -1.048 ms

Remote clock offset: 0.806 ms

Below is generated by plot.py at 2018-07-10 23:56:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.84 Mbit/s

95th percentile per-packet one-way delay: 113.013 ms

Loss rate: 2.49%

-- Flow 1:

Average throughput: 57.33 Mbit/s

95th percentile per-packet one-way delay: 112.669 ms

Loss rate: 1.70%

-- Flow 2:

Average throughput: 39.01 Mbit/s

95th percentile per-packet one-way delay: 113.445 ms

Loss rate: 3.36%

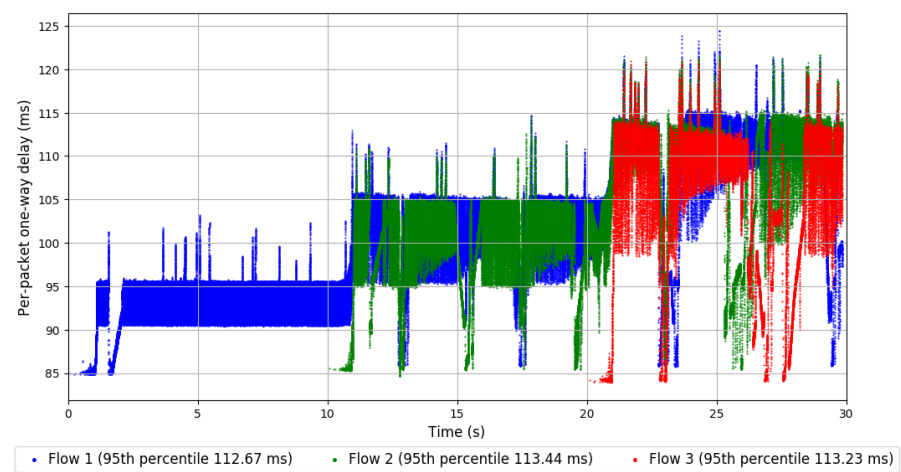
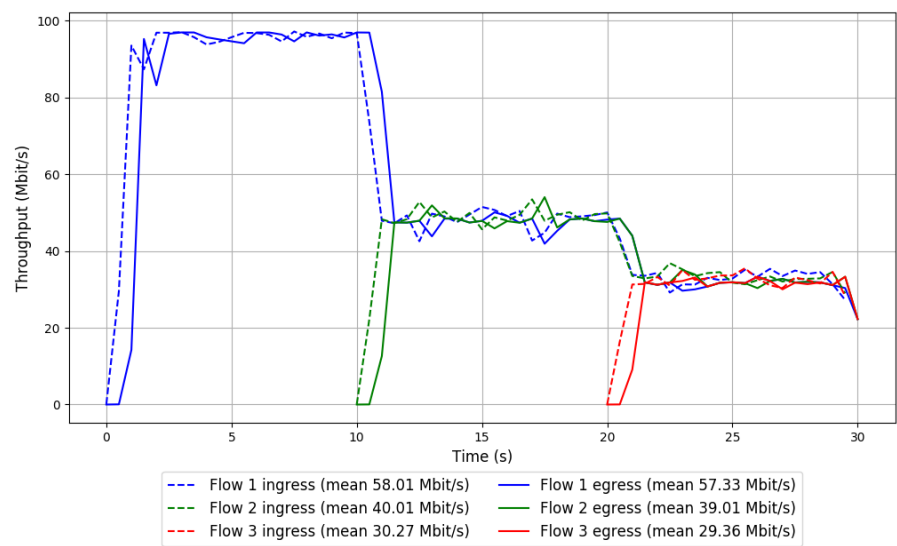
-- Flow 3:

Average throughput: 29.36 Mbit/s

95th percentile per-packet one-way delay: 113.234 ms

Loss rate: 4.73%

Run 7: Report of FillP — Data Link

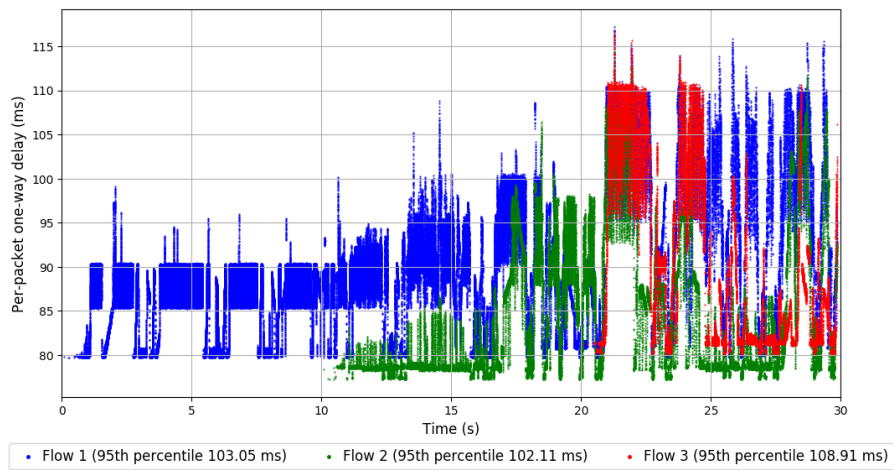
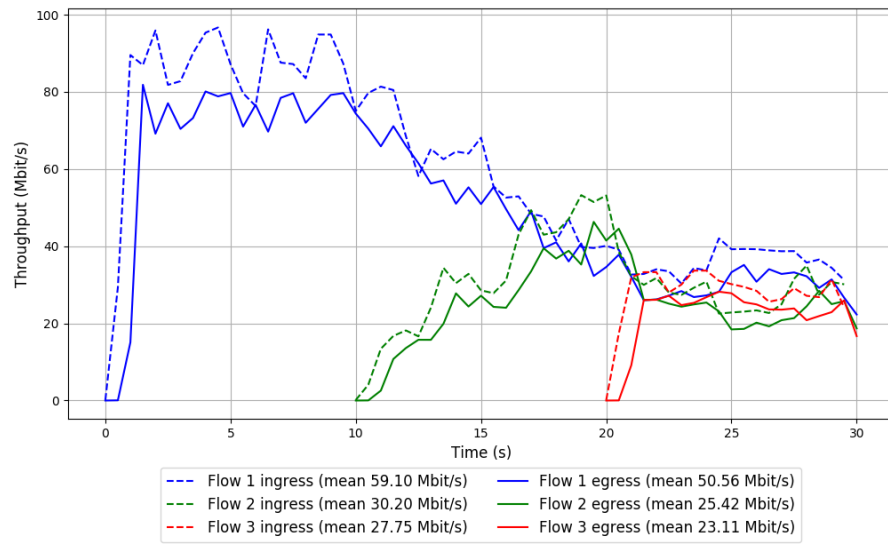


Run 8: Statistics of FillP

Start at: 2018-07-10 23:03:10
End at: 2018-07-10 23:03:40
Local clock offset: -0.961 ms
Remote clock offset: 6.562 ms

Below is generated by plot.py at 2018-07-10 23:56:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.99 Mbit/s
95th percentile per-packet one-way delay: 104.344 ms
Loss rate: 15.67%
-- Flow 1:
Average throughput: 50.56 Mbit/s
95th percentile per-packet one-way delay: 103.048 ms
Loss rate: 14.97%
-- Flow 2:
Average throughput: 25.42 Mbit/s
95th percentile per-packet one-way delay: 102.113 ms
Loss rate: 16.59%
-- Flow 3:
Average throughput: 23.11 Mbit/s
95th percentile per-packet one-way delay: 108.908 ms
Loss rate: 18.13%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-10 23:24:39

End at: 2018-07-10 23:25:09

Local clock offset: -0.993 ms

Remote clock offset: 2.738 ms

Below is generated by plot.py at 2018-07-10 23:57:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.61 Mbit/s

95th percentile per-packet one-way delay: 113.293 ms

Loss rate: 2.70%

-- Flow 1:

Average throughput: 56.13 Mbit/s

95th percentile per-packet one-way delay: 110.644 ms

Loss rate: 1.68%

-- Flow 2:

Average throughput: 37.69 Mbit/s

95th percentile per-packet one-way delay: 112.520 ms

Loss rate: 4.09%

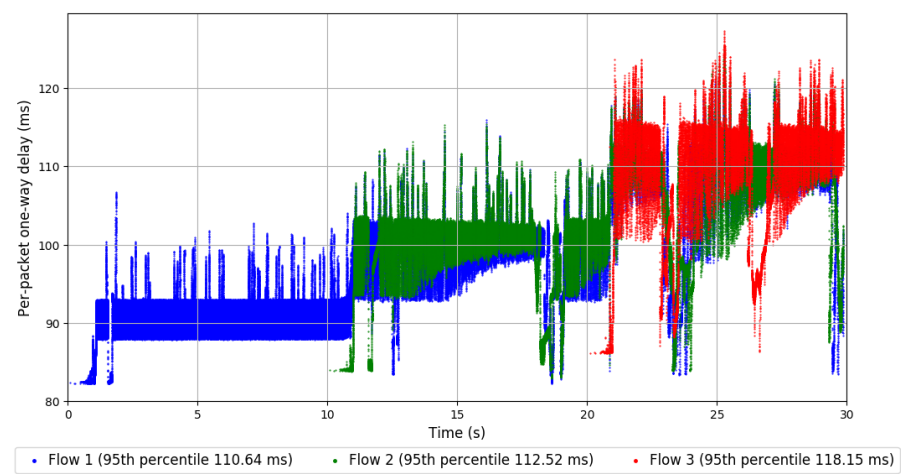
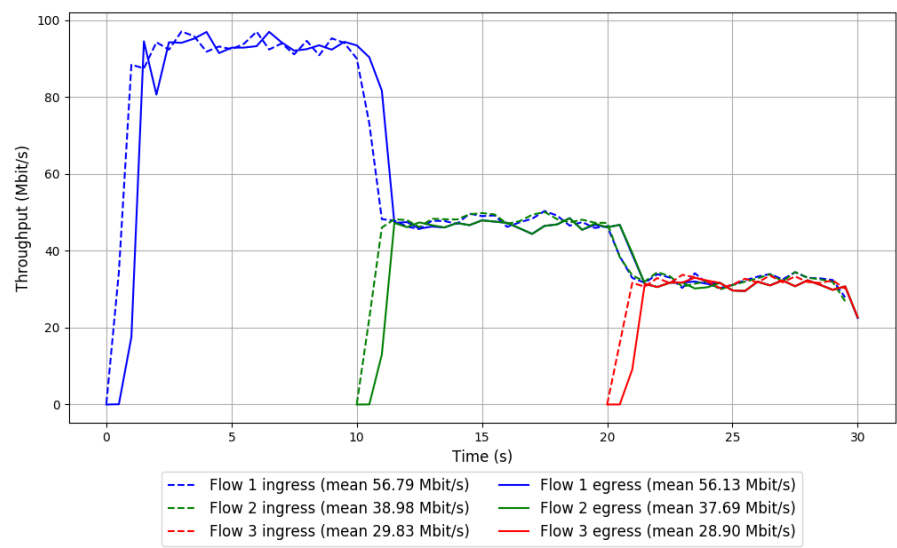
-- Flow 3:

Average throughput: 28.90 Mbit/s

95th percentile per-packet one-way delay: 118.148 ms

Loss rate: 4.86%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-07-10 23:45:47

End at: 2018-07-10 23:46:17

Local clock offset: -0.998 ms

Remote clock offset: 8.769 ms

Below is generated by plot.py at 2018-07-10 23:57:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.93 Mbit/s

95th percentile per-packet one-way delay: 107.513 ms

Loss rate: 2.59%

-- Flow 1:

Average throughput: 56.82 Mbit/s

95th percentile per-packet one-way delay: 107.752 ms

Loss rate: 1.78%

-- Flow 2:

Average throughput: 38.35 Mbit/s

95th percentile per-packet one-way delay: 106.615 ms

Loss rate: 3.66%

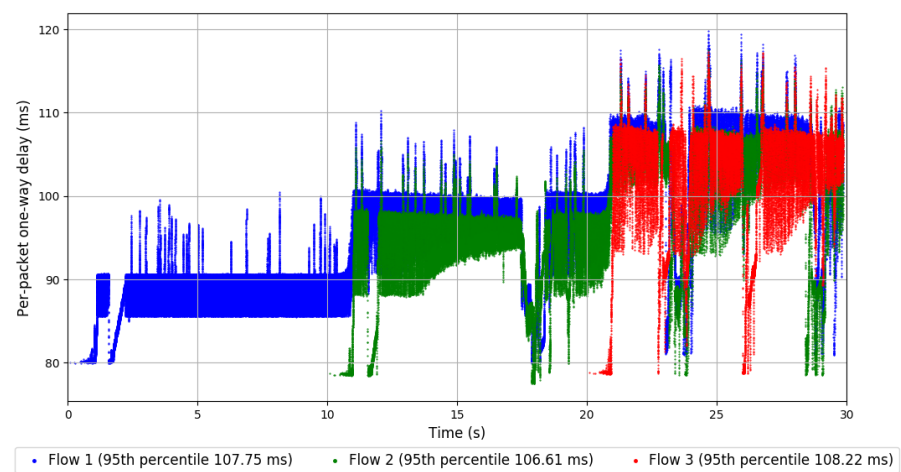
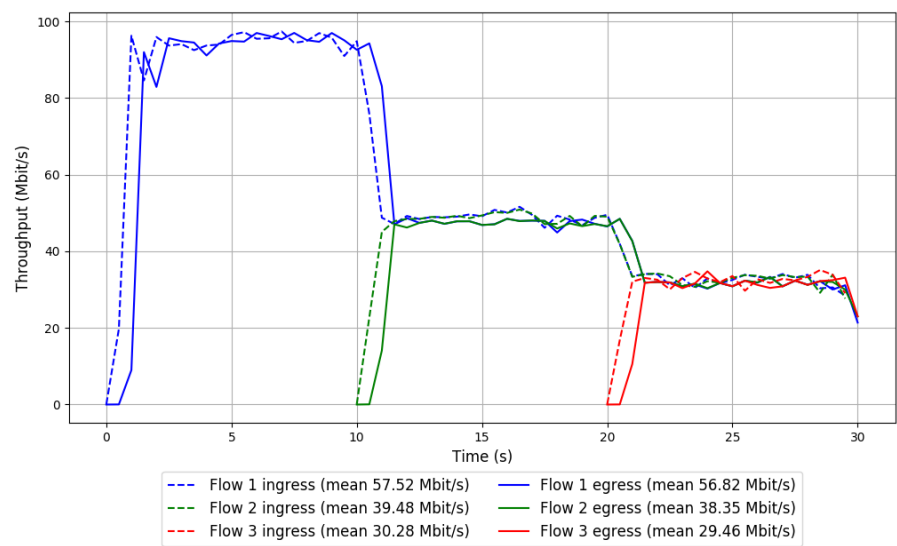
-- Flow 3:

Average throughput: 29.46 Mbit/s

95th percentile per-packet one-way delay: 108.215 ms

Loss rate: 4.42%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-07-10 20:17:17

End at: 2018-07-10 20:17:47

Local clock offset: -1.302 ms

Remote clock offset: 2.803 ms

Below is generated by plot.py at 2018-07-10 23:57:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.34 Mbit/s

95th percentile per-packet one-way delay: 113.331 ms

Loss rate: 4.83%

-- Flow 1:

Average throughput: 55.80 Mbit/s

95th percentile per-packet one-way delay: 111.452 ms

Loss rate: 3.45%

-- Flow 2:

Average throughput: 37.71 Mbit/s

95th percentile per-packet one-way delay: 114.651 ms

Loss rate: 6.71%

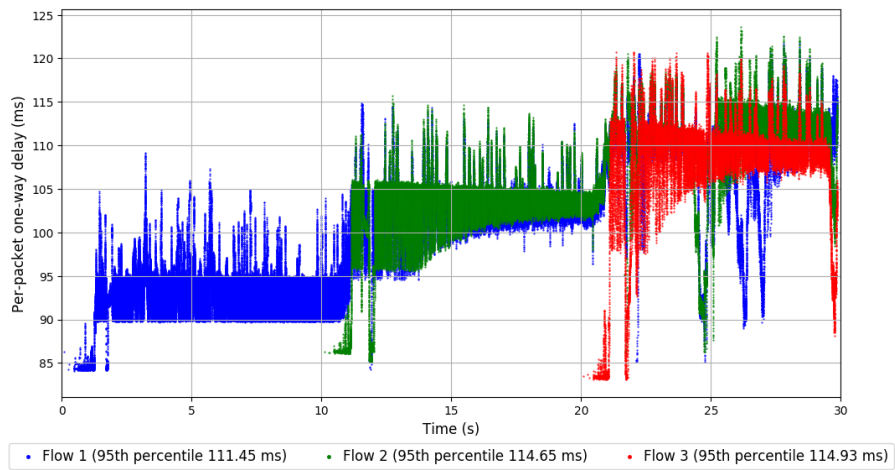
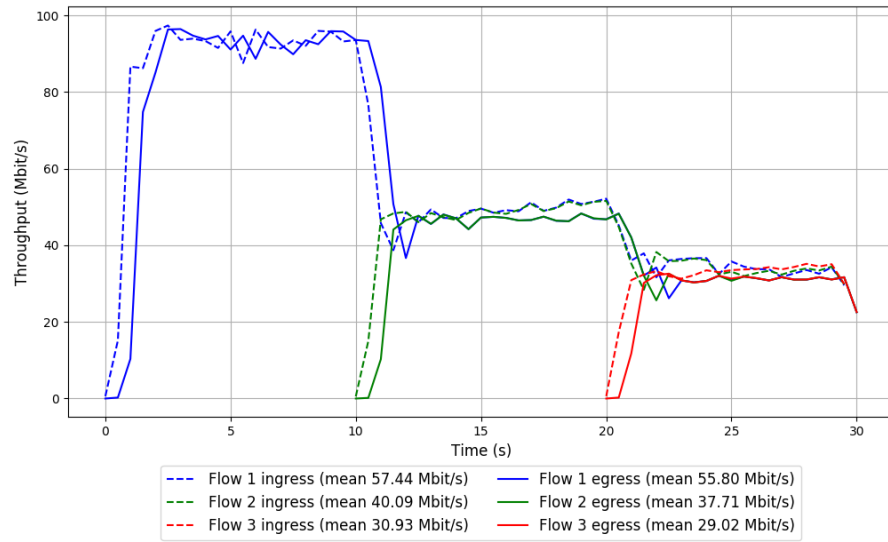
-- Flow 3:

Average throughput: 29.02 Mbit/s

95th percentile per-packet one-way delay: 114.928 ms

Loss rate: 7.71%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-07-10 20:38:25

End at: 2018-07-10 20:38:55

Local clock offset: -1.42 ms

Remote clock offset: 14.04 ms

Below is generated by plot.py at 2018-07-10 23:57:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.08 Mbit/s

95th percentile per-packet one-way delay: 107.450 ms

Loss rate: 21.02%

-- Flow 1:

Average throughput: 46.50 Mbit/s

95th percentile per-packet one-way delay: 107.137 ms

Loss rate: 19.79%

-- Flow 2:

Average throughput: 31.21 Mbit/s

95th percentile per-packet one-way delay: 107.067 ms

Loss rate: 22.67%

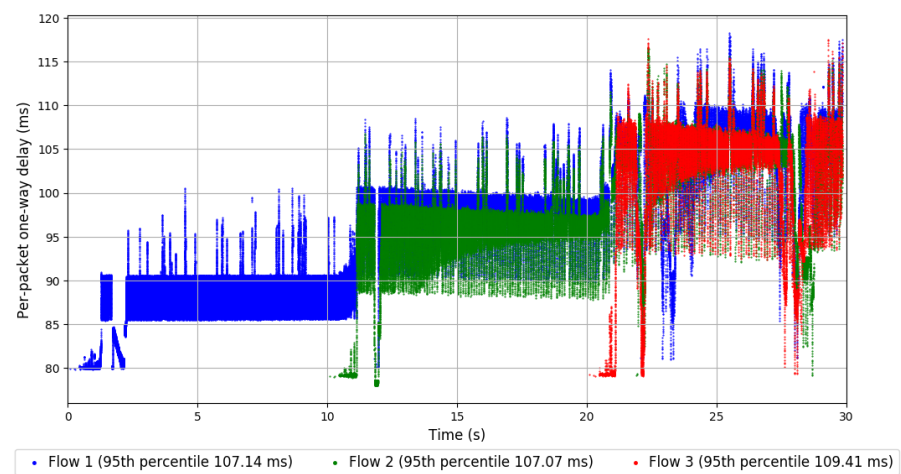
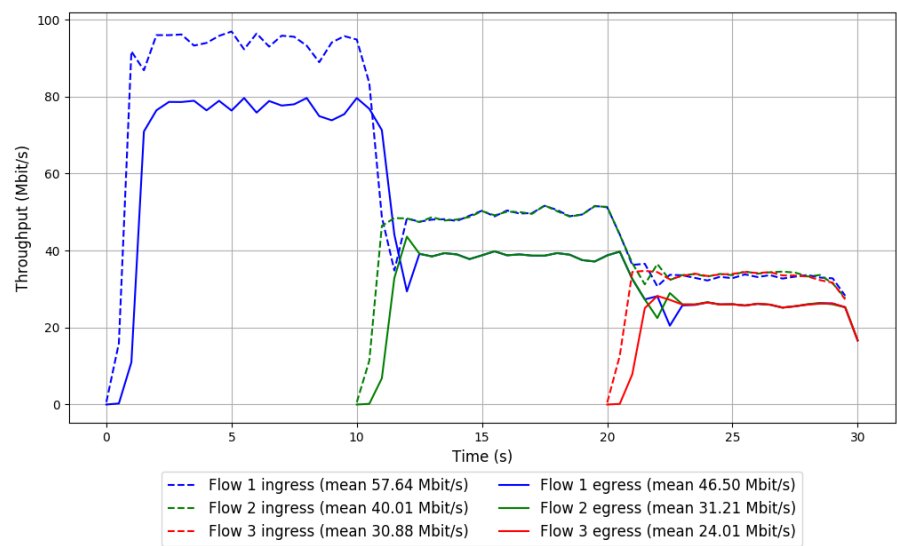
-- Flow 3:

Average throughput: 24.01 Mbit/s

95th percentile per-packet one-way delay: 109.407 ms

Loss rate: 23.60%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-07-10 20:59:35

End at: 2018-07-10 21:00:05

Local clock offset: -1.512 ms

Remote clock offset: 17.25 ms

Below is generated by plot.py at 2018-07-10 23:57:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.76 Mbit/s

95th percentile per-packet one-way delay: 107.547 ms

Loss rate: 4.51%

-- Flow 1:

Average throughput: 56.11 Mbit/s

95th percentile per-packet one-way delay: 104.462 ms

Loss rate: 2.93%

-- Flow 2:

Average throughput: 37.78 Mbit/s

95th percentile per-packet one-way delay: 109.369 ms

Loss rate: 6.63%

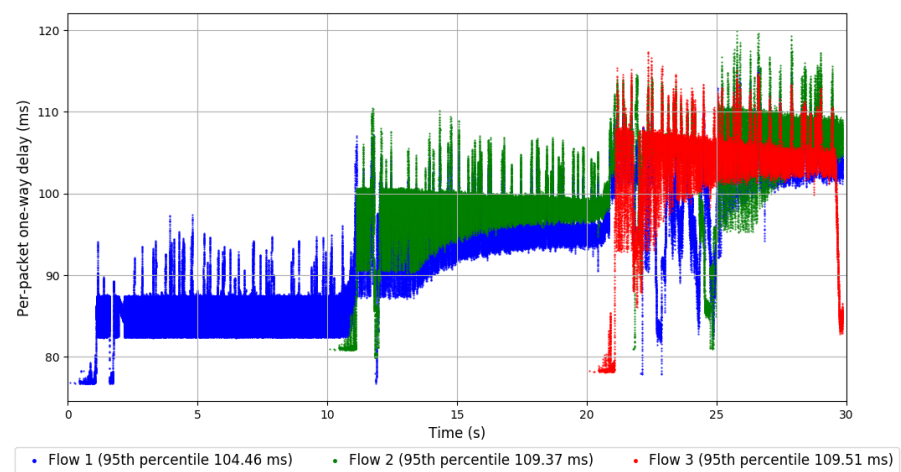
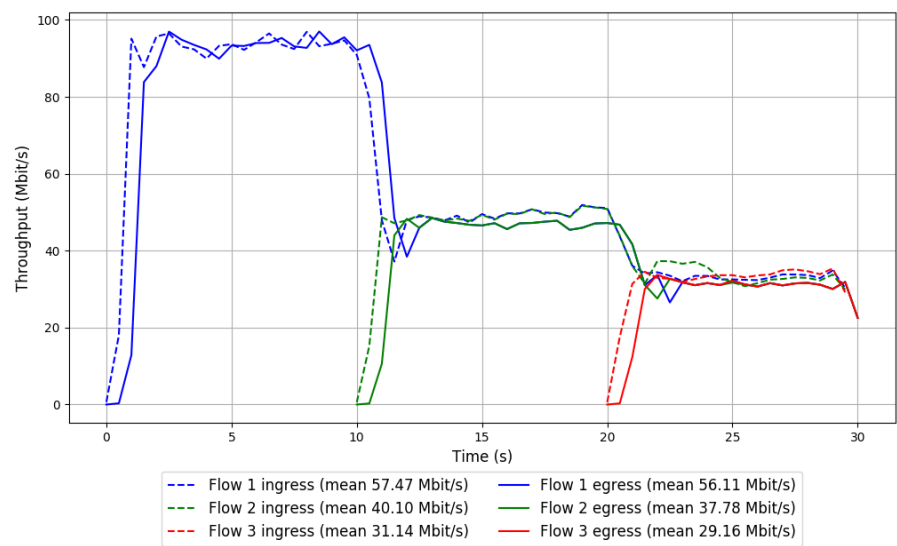
-- Flow 3:

Average throughput: 29.16 Mbit/s

95th percentile per-packet one-way delay: 109.510 ms

Loss rate: 7.85%

Run 3: Report of FillP-Sheep — Data Link

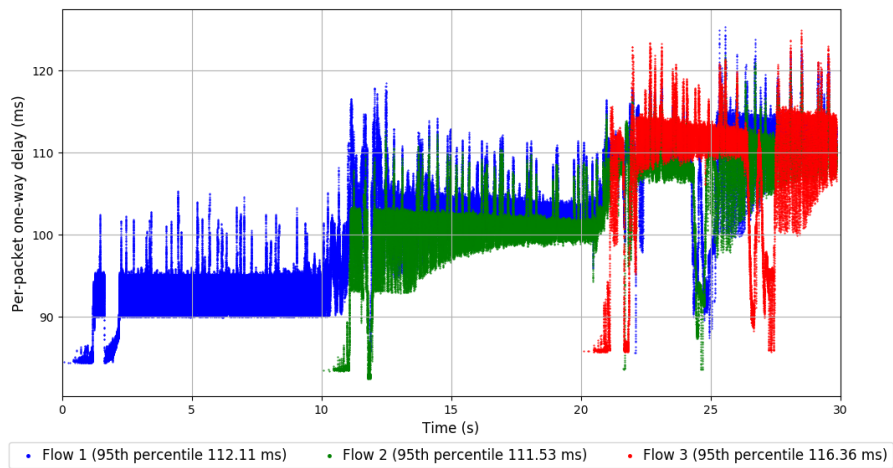
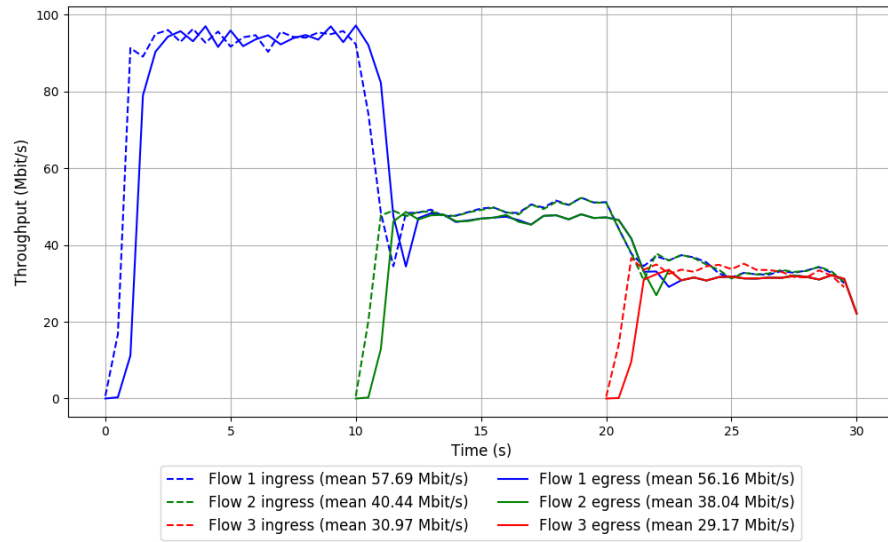


Run 4: Statistics of FillP-Sheep

Start at: 2018-07-10 21:20:45
End at: 2018-07-10 21:21:15
Local clock offset: -1.55 ms
Remote clock offset: 10.257 ms

Below is generated by plot.py at 2018-07-10 23:57:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.96 Mbit/s
95th percentile per-packet one-way delay: 113.026 ms
Loss rate: 4.69%
-- Flow 1:
Average throughput: 56.16 Mbit/s
95th percentile per-packet one-way delay: 112.115 ms
Loss rate: 3.22%
-- Flow 2:
Average throughput: 38.04 Mbit/s
95th percentile per-packet one-way delay: 111.529 ms
Loss rate: 6.76%
-- Flow 3:
Average throughput: 29.17 Mbit/s
95th percentile per-packet one-way delay: 116.358 ms
Loss rate: 7.47%

Run 4: Report of FillP-Sheep — Data Link

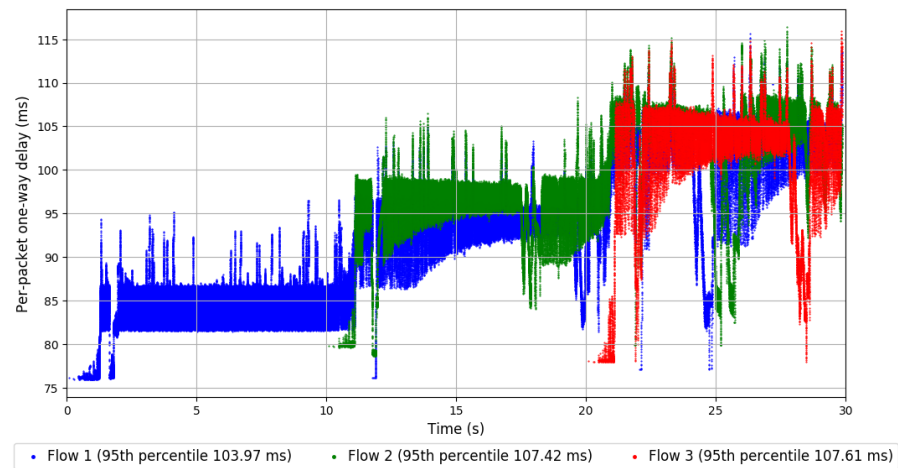
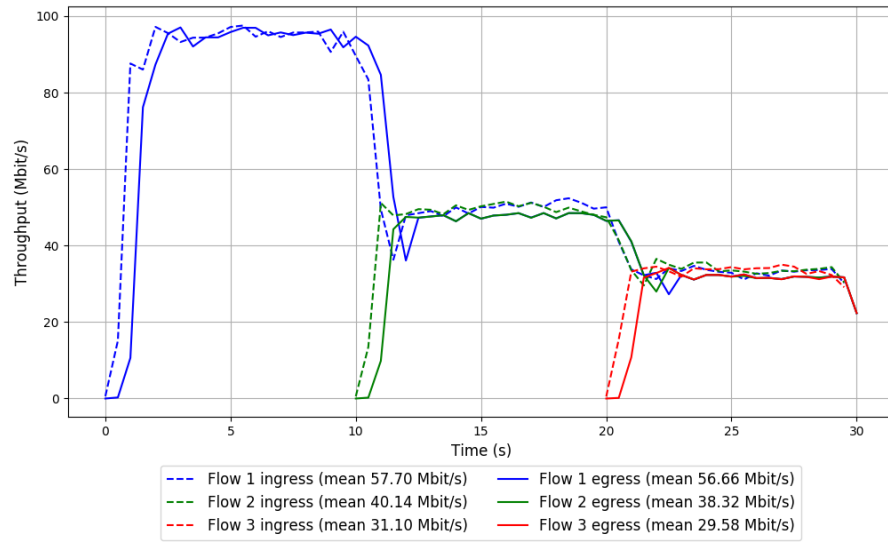


Run 5: Statistics of FillP-Sheep

Start at: 2018-07-10 21:41:54
End at: 2018-07-10 21:42:24
Local clock offset: -1.362 ms
Remote clock offset: 16.661 ms

Below is generated by plot.py at 2018-07-10 23:57:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.78 Mbit/s
95th percentile per-packet one-way delay: 106.290 ms
Loss rate: 3.66%
-- Flow 1:
Average throughput: 56.66 Mbit/s
95th percentile per-packet one-way delay: 103.973 ms
Loss rate: 2.33%
-- Flow 2:
Average throughput: 38.32 Mbit/s
95th percentile per-packet one-way delay: 107.423 ms
Loss rate: 5.38%
-- Flow 3:
Average throughput: 29.58 Mbit/s
95th percentile per-packet one-way delay: 107.613 ms
Loss rate: 6.57%

Run 5: Report of FillP-Sheep — Data Link

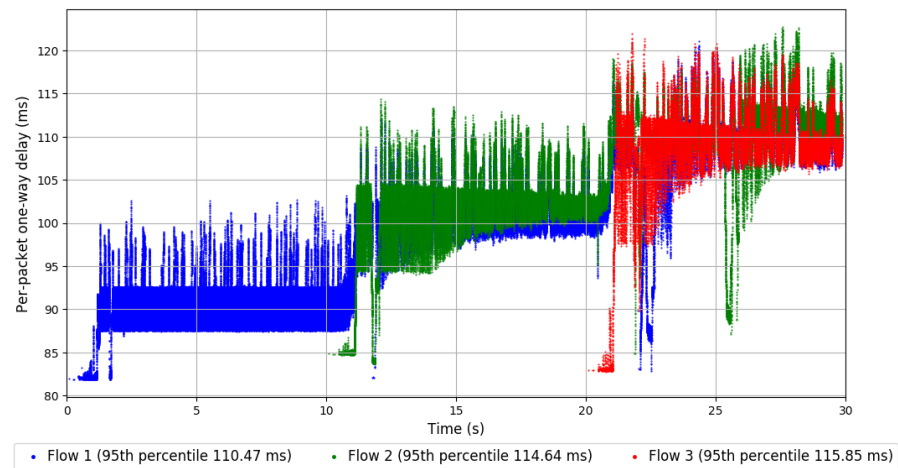
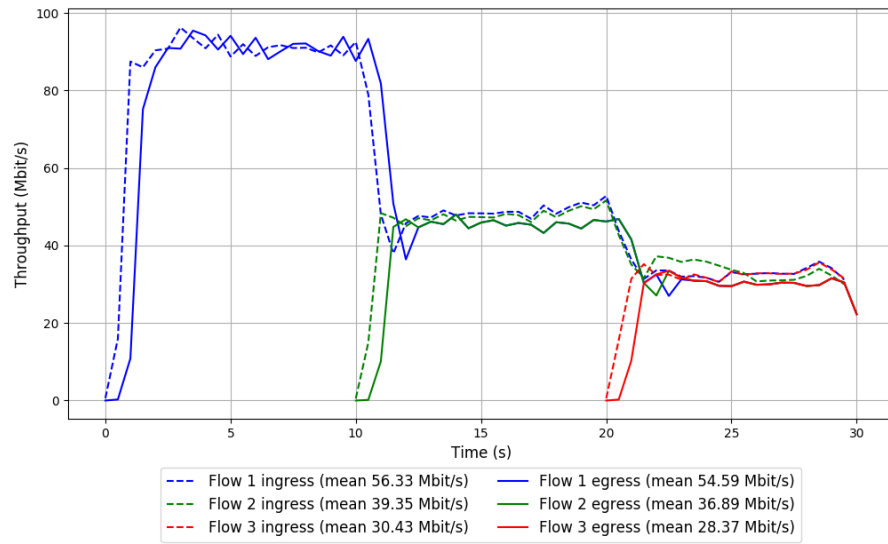


Run 6: Statistics of FillP-Sheep

Start at: 2018-07-10 22:03:11
End at: 2018-07-10 22:03:41
Local clock offset: -1.223 ms
Remote clock offset: 12.145 ms

Below is generated by plot.py at 2018-07-10 23:57:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.38 Mbit/s
95th percentile per-packet one-way delay: 113.360 ms
Loss rate: 5.14%
-- Flow 1:
Average throughput: 54.59 Mbit/s
95th percentile per-packet one-way delay: 110.474 ms
Loss rate: 3.65%
-- Flow 2:
Average throughput: 36.89 Mbit/s
95th percentile per-packet one-way delay: 114.638 ms
Loss rate: 7.08%
-- Flow 3:
Average throughput: 28.37 Mbit/s
95th percentile per-packet one-way delay: 115.846 ms
Loss rate: 8.41%

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-07-10 22:24:25

End at: 2018-07-10 22:24:55

Local clock offset: -1.091 ms

Remote clock offset: 4.568 ms

Below is generated by plot.py at 2018-07-10 23:58:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.40 Mbit/s

95th percentile per-packet one-way delay: 112.897 ms

Loss rate: 4.78%

-- Flow 1:

Average throughput: 55.43 Mbit/s

95th percentile per-packet one-way delay: 110.981 ms

Loss rate: 3.12%

-- Flow 2:

Average throughput: 37.10 Mbit/s

95th percentile per-packet one-way delay: 114.134 ms

Loss rate: 7.08%

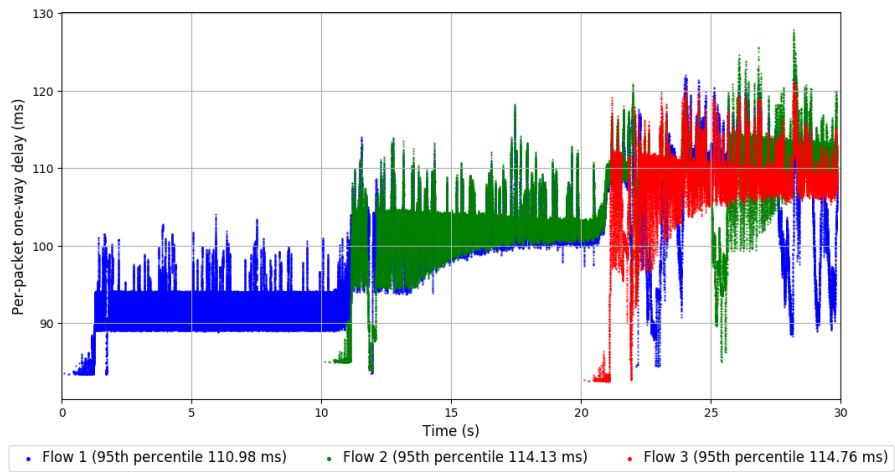
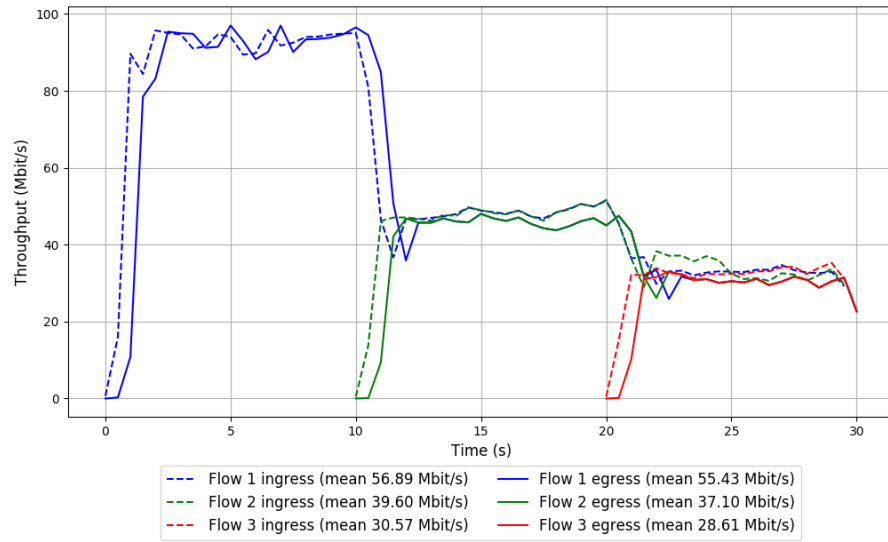
-- Flow 3:

Average throughput: 28.61 Mbit/s

95th percentile per-packet one-way delay: 114.760 ms

Loss rate: 8.08%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-07-10 22:45:42

End at: 2018-07-10 22:46:12

Local clock offset: -1.118 ms

Remote clock offset: 2.377 ms

Below is generated by plot.py at 2018-07-10 23:58:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.50 Mbit/s

95th percentile per-packet one-way delay: 111.649 ms

Loss rate: 2.86%

-- Flow 1:

Average throughput: 57.77 Mbit/s

95th percentile per-packet one-way delay: 111.326 ms

Loss rate: 1.70%

-- Flow 2:

Average throughput: 39.06 Mbit/s

95th percentile per-packet one-way delay: 109.176 ms

Loss rate: 4.23%

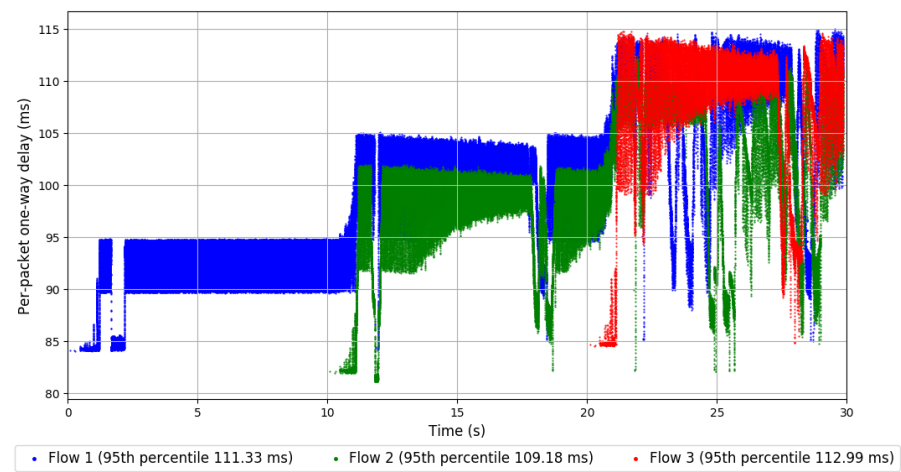
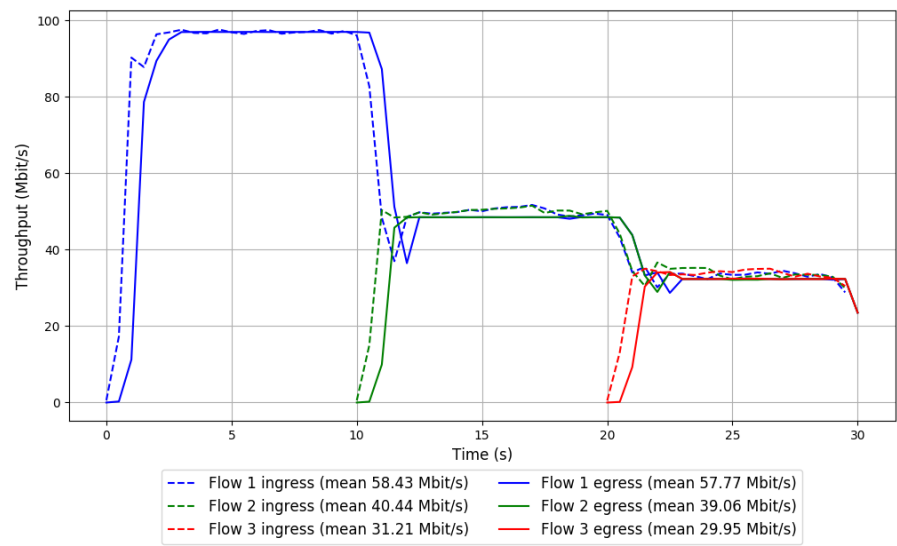
-- Flow 3:

Average throughput: 29.95 Mbit/s

95th percentile per-packet one-way delay: 112.992 ms

Loss rate: 5.80%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-10 23:07:09

End at: 2018-07-10 23:07:39

Local clock offset: -0.976 ms

Remote clock offset: 6.284 ms

Below is generated by plot.py at 2018-07-10 23:58:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.82 Mbit/s

95th percentile per-packet one-way delay: 106.849 ms

Loss rate: 4.08%

-- Flow 1:

Average throughput: 56.66 Mbit/s

95th percentile per-packet one-way delay: 106.814 ms

Loss rate: 2.68%

-- Flow 2:

Average throughput: 38.44 Mbit/s

95th percentile per-packet one-way delay: 105.959 ms

Loss rate: 6.11%

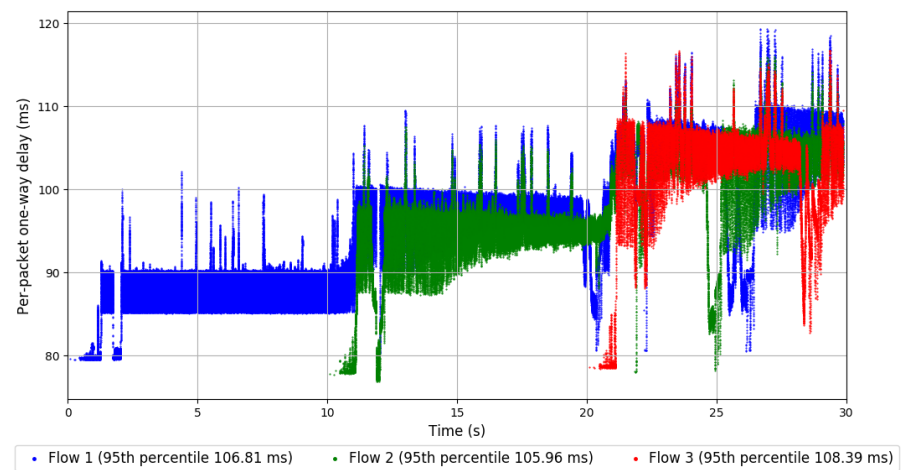
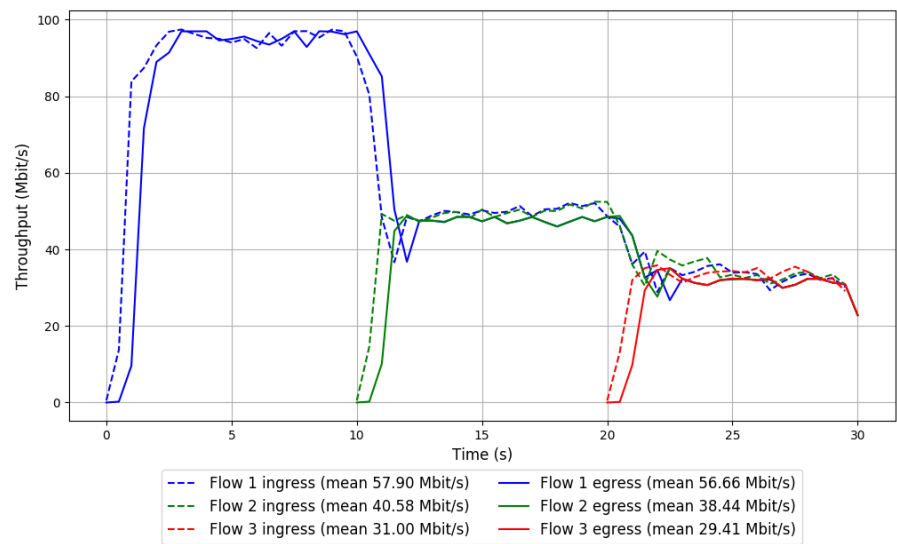
-- Flow 3:

Average throughput: 29.41 Mbit/s

95th percentile per-packet one-way delay: 108.387 ms

Loss rate: 6.64%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-07-10 23:28:29

End at: 2018-07-10 23:28:59

Local clock offset: -0.958 ms

Remote clock offset: 4.158 ms

Below is generated by plot.py at 2018-07-10 23:58:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.56 Mbit/s

95th percentile per-packet one-way delay: 112.230 ms

Loss rate: 4.19%

-- Flow 1:

Average throughput: 56.55 Mbit/s

95th percentile per-packet one-way delay: 111.993 ms

Loss rate: 2.35%

-- Flow 2:

Average throughput: 38.20 Mbit/s

95th percentile per-packet one-way delay: 112.535 ms

Loss rate: 7.15%

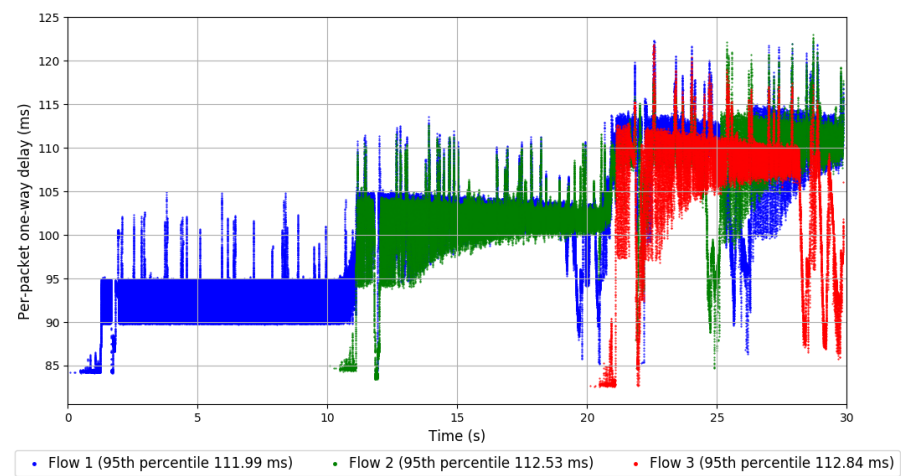
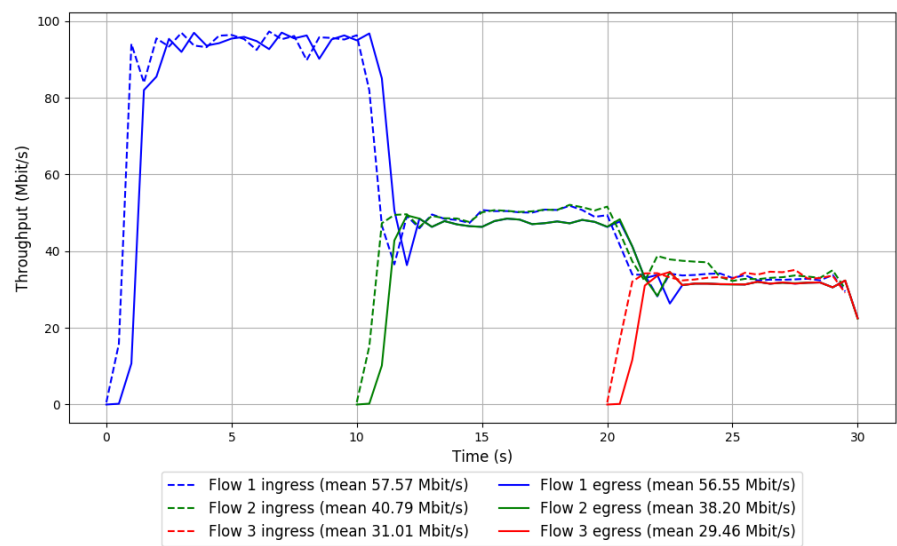
-- Flow 3:

Average throughput: 29.46 Mbit/s

95th percentile per-packet one-way delay: 112.838 ms

Loss rate: 6.65%

Run 10: Report of FillP-Sheep — Data Link

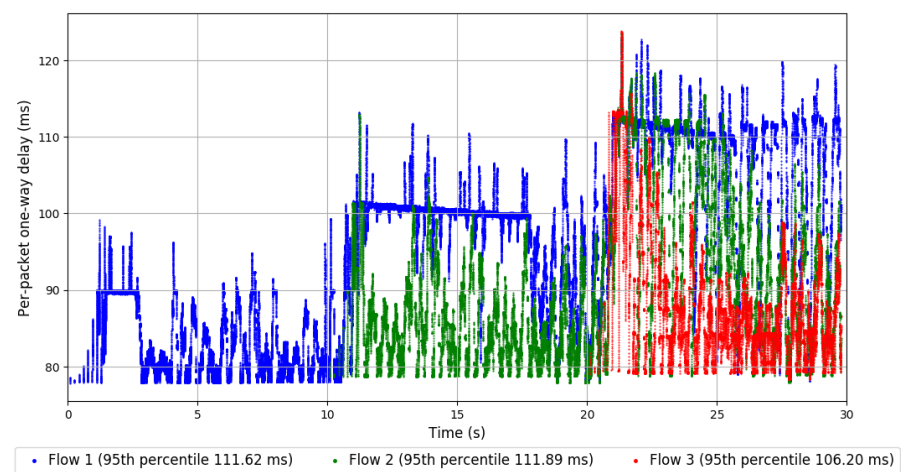
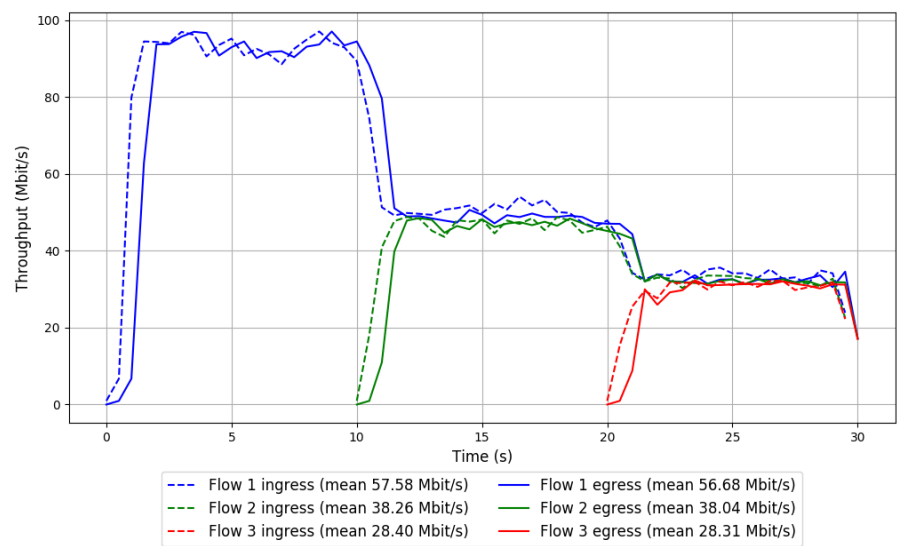


Run 1: Statistics of Indigo

Start at: 2018-07-10 20:35:50
End at: 2018-07-10 20:36:20
Local clock offset: -1.354 ms
Remote clock offset: 13.293 ms

Below is generated by plot.py at 2018-07-10 23:58:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.12 Mbit/s
95th percentile per-packet one-way delay: 111.635 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 56.68 Mbit/s
95th percentile per-packet one-way delay: 111.616 ms
Loss rate: 2.10%
-- Flow 2:
Average throughput: 38.04 Mbit/s
95th percentile per-packet one-way delay: 111.892 ms
Loss rate: 1.39%
-- Flow 3:
Average throughput: 28.31 Mbit/s
95th percentile per-packet one-way delay: 106.203 ms
Loss rate: 1.97%

Run 1: Report of Indigo — Data Link

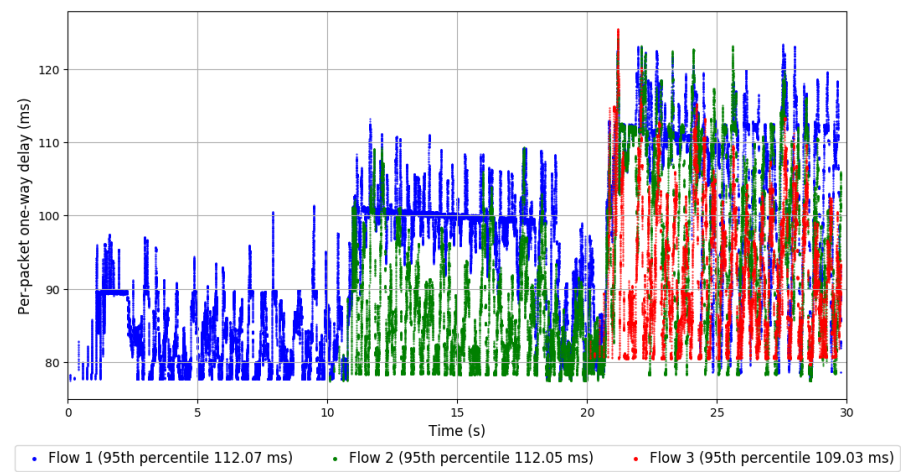
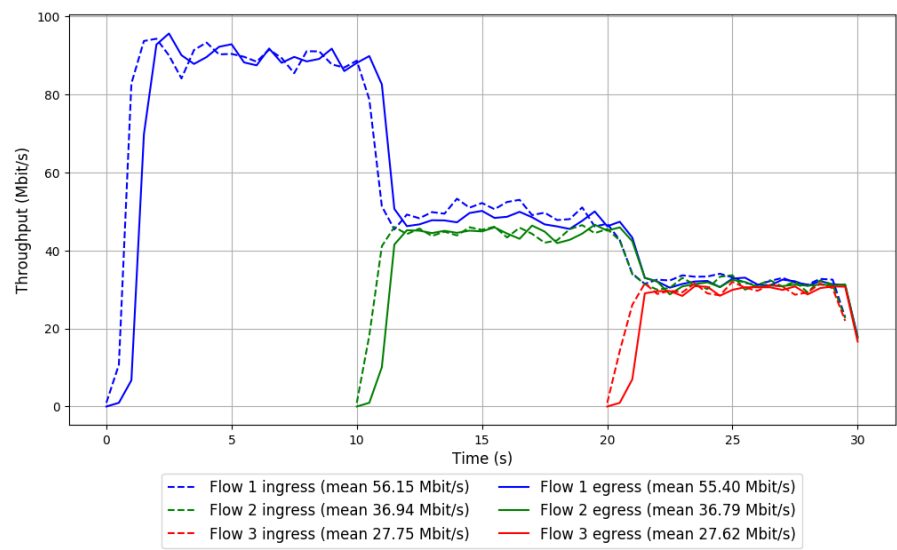


Run 2: Statistics of Indigo

Start at: 2018-07-10 20:57:00
End at: 2018-07-10 20:57:30
Local clock offset: -1.444 ms
Remote clock offset: 16.998 ms

Below is generated by plot.py at 2018-07-10 23:58:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.77 Mbit/s
95th percentile per-packet one-way delay: 112.011 ms
Loss rate: 1.72%
-- Flow 1:
Average throughput: 55.40 Mbit/s
95th percentile per-packet one-way delay: 112.072 ms
Loss rate: 1.87%
-- Flow 2:
Average throughput: 36.79 Mbit/s
95th percentile per-packet one-way delay: 112.053 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 27.62 Mbit/s
95th percentile per-packet one-way delay: 109.027 ms
Loss rate: 2.11%

Run 2: Report of Indigo — Data Link

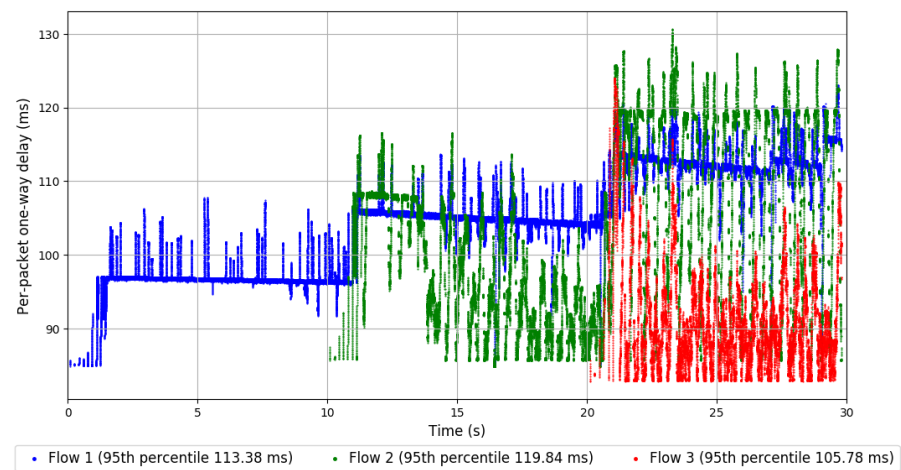
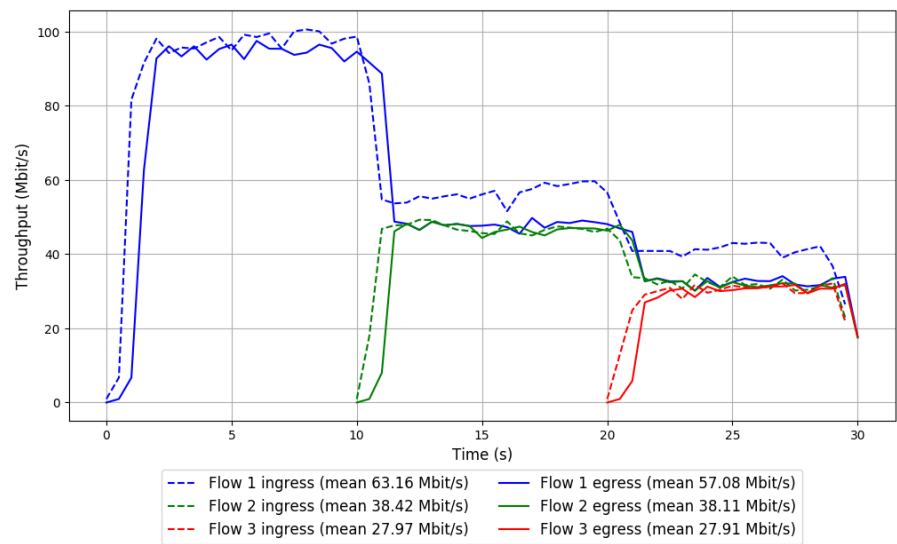


Run 3: Statistics of Indigo

Start at: 2018-07-10 21:18:09
End at: 2018-07-10 21:18:39
Local clock offset: -1.54 ms
Remote clock offset: 10.356 ms

Below is generated by plot.py at 2018-07-10 23:58:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.42 Mbit/s
95th percentile per-packet one-way delay: 117.772 ms
Loss rate: 7.18%
-- Flow 1:
Average throughput: 57.08 Mbit/s
95th percentile per-packet one-way delay: 113.376 ms
Loss rate: 10.16%
-- Flow 2:
Average throughput: 38.11 Mbit/s
95th percentile per-packet one-way delay: 119.844 ms
Loss rate: 1.71%
-- Flow 3:
Average throughput: 27.91 Mbit/s
95th percentile per-packet one-way delay: 105.783 ms
Loss rate: 1.88%

Run 3: Report of Indigo — Data Link

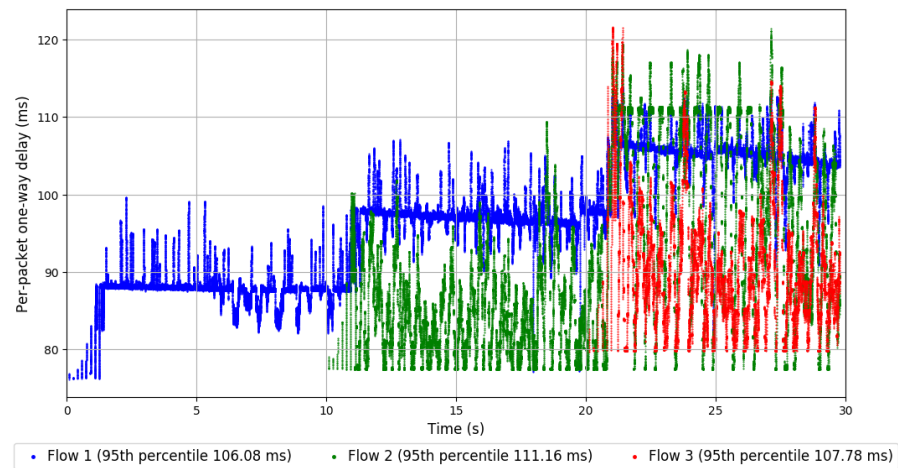
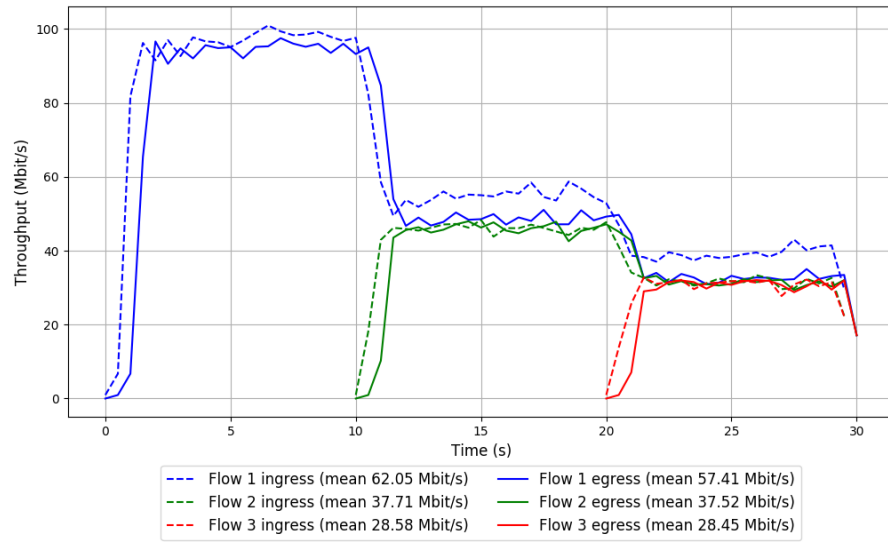


Run 4: Statistics of Indigo

Start at: 2018-07-10 21:39:19
End at: 2018-07-10 21:39:49
Local clock offset: -1.402 ms
Remote clock offset: 16.719 ms

Below is generated by plot.py at 2018-07-10 23:58:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.53 Mbit/s
95th percentile per-packet one-way delay: 108.357 ms
Loss rate: 5.71%
-- Flow 1:
Average throughput: 57.41 Mbit/s
95th percentile per-packet one-way delay: 106.077 ms
Loss rate: 8.02%
-- Flow 2:
Average throughput: 37.52 Mbit/s
95th percentile per-packet one-way delay: 111.162 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 28.45 Mbit/s
95th percentile per-packet one-way delay: 107.775 ms
Loss rate: 2.16%

Run 4: Report of Indigo — Data Link

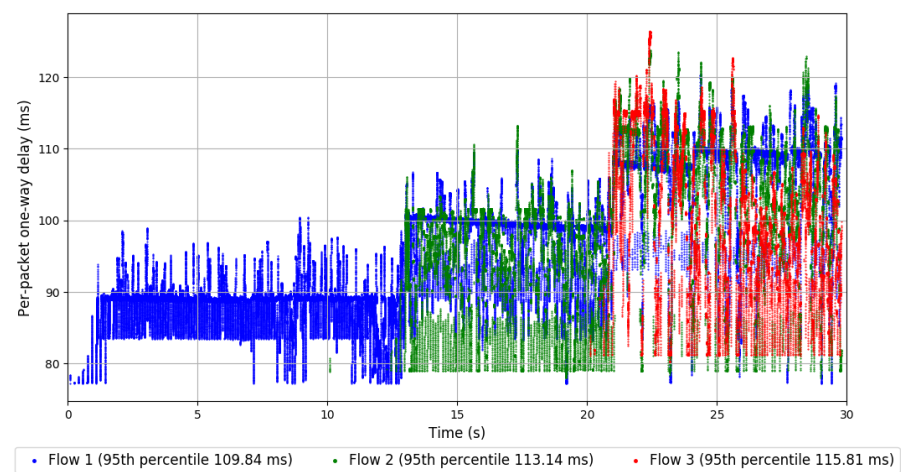
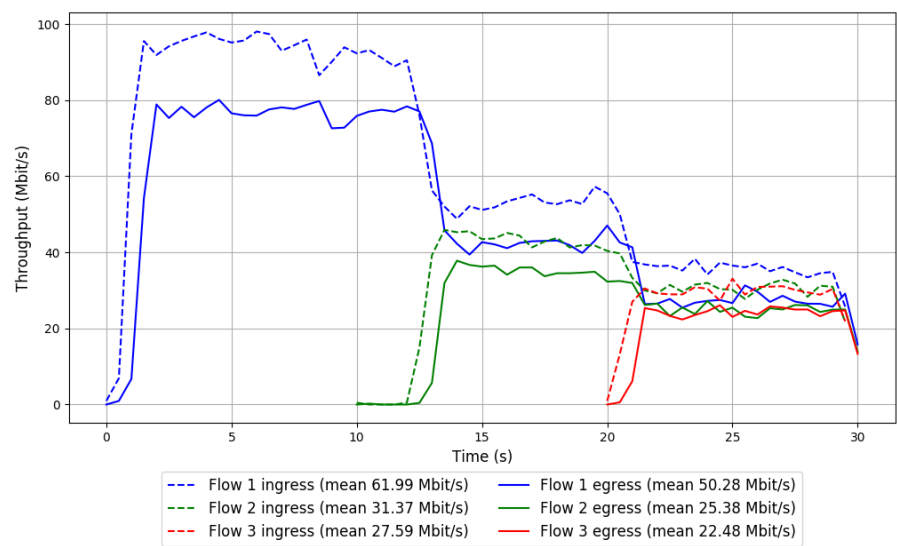


Run 5: Statistics of Indigo

Start at: 2018-07-10 22:00:37
End at: 2018-07-10 22:01:07
Local clock offset: -1.228 ms
Remote clock offset: 16.023 ms

Below is generated by plot.py at 2018-07-10 23:59:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.42 Mbit/s
95th percentile per-packet one-way delay: 112.697 ms
Loss rate: 19.52%
-- Flow 1:
Average throughput: 50.28 Mbit/s
95th percentile per-packet one-way delay: 109.840 ms
Loss rate: 19.38%
-- Flow 2:
Average throughput: 25.38 Mbit/s
95th percentile per-packet one-way delay: 113.138 ms
Loss rate: 19.77%
-- Flow 3:
Average throughput: 22.48 Mbit/s
95th percentile per-packet one-way delay: 115.805 ms
Loss rate: 19.90%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-07-10 22:21:50

End at: 2018-07-10 22:22:20

Local clock offset: -1.099 ms

Remote clock offset: 7.941 ms

Below is generated by plot.py at 2018-07-10 23:59:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.87 Mbit/s

95th percentile per-packet one-way delay: 115.593 ms

Loss rate: 2.47%

-- Flow 1:

Average throughput: 54.86 Mbit/s

95th percentile per-packet one-way delay: 114.525 ms

Loss rate: 3.03%

-- Flow 2:

Average throughput: 36.55 Mbit/s

95th percentile per-packet one-way delay: 116.326 ms

Loss rate: 1.19%

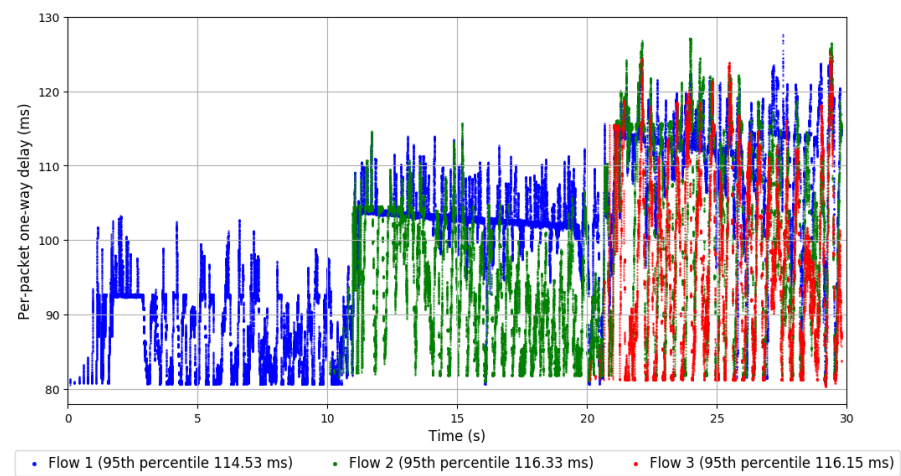
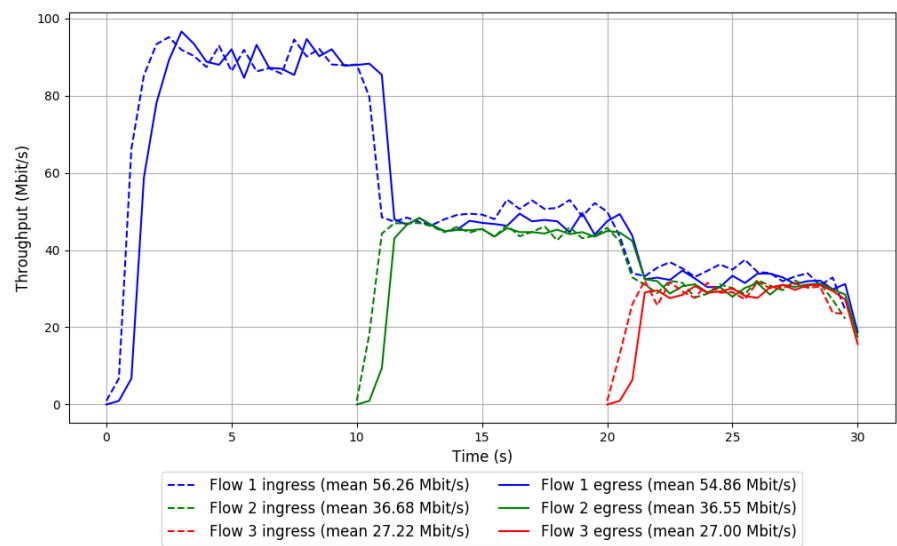
-- Flow 3:

Average throughput: 27.00 Mbit/s

95th percentile per-packet one-way delay: 116.153 ms

Loss rate: 2.46%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-07-10 22:43:07

End at: 2018-07-10 22:43:37

Local clock offset: -1.093 ms

Remote clock offset: 6.795 ms

Below is generated by plot.py at 2018-07-10 23:59:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.93 Mbit/s

95th percentile per-packet one-way delay: 108.605 ms

Loss rate: 3.09%

-- Flow 1:

Average throughput: 58.60 Mbit/s

95th percentile per-packet one-way delay: 107.050 ms

Loss rate: 4.11%

-- Flow 2:

Average throughput: 38.92 Mbit/s

95th percentile per-packet one-way delay: 113.339 ms

Loss rate: 1.11%

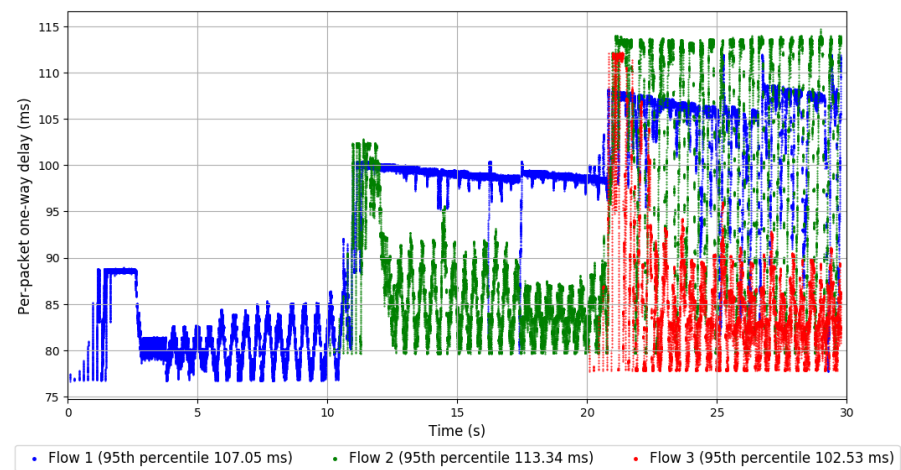
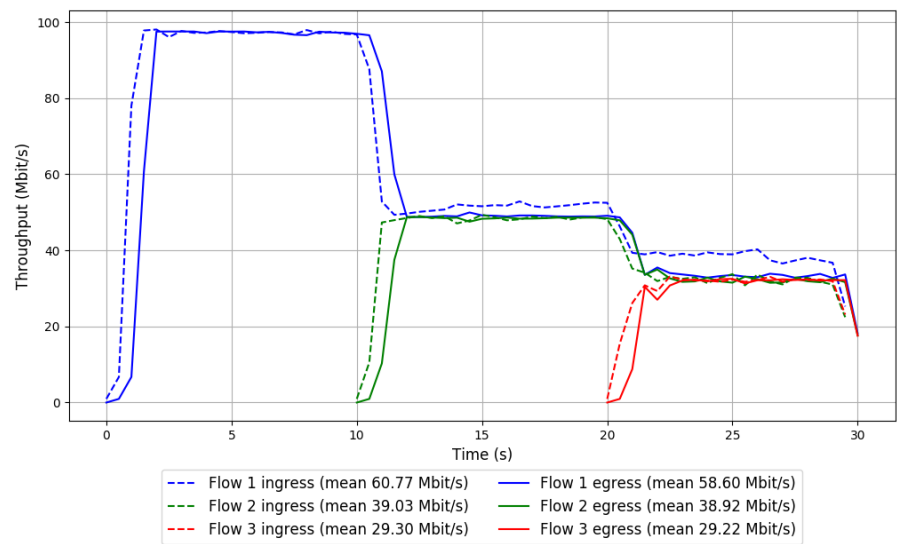
-- Flow 3:

Average throughput: 29.22 Mbit/s

95th percentile per-packet one-way delay: 102.528 ms

Loss rate: 1.95%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-07-10 23:04:33

End at: 2018-07-10 23:05:03

Local clock offset: -0.97 ms

Remote clock offset: 6.522 ms

Below is generated by plot.py at 2018-07-10 23:59:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.13 Mbit/s

95th percentile per-packet one-way delay: 112.957 ms

Loss rate: 15.85%

-- Flow 1:

Average throughput: 54.07 Mbit/s

95th percentile per-packet one-way delay: 112.808 ms

Loss rate: 14.10%

-- Flow 2:

Average throughput: 20.95 Mbit/s

95th percentile per-packet one-way delay: 97.030 ms

Loss rate: 20.06%

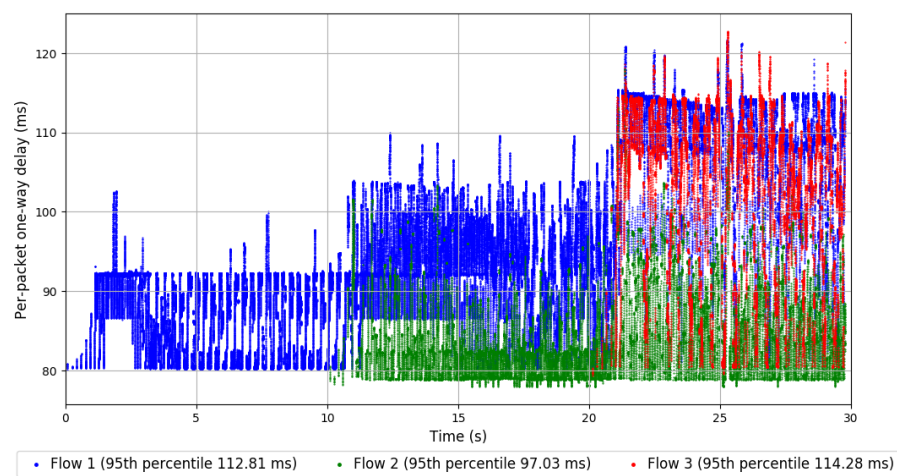
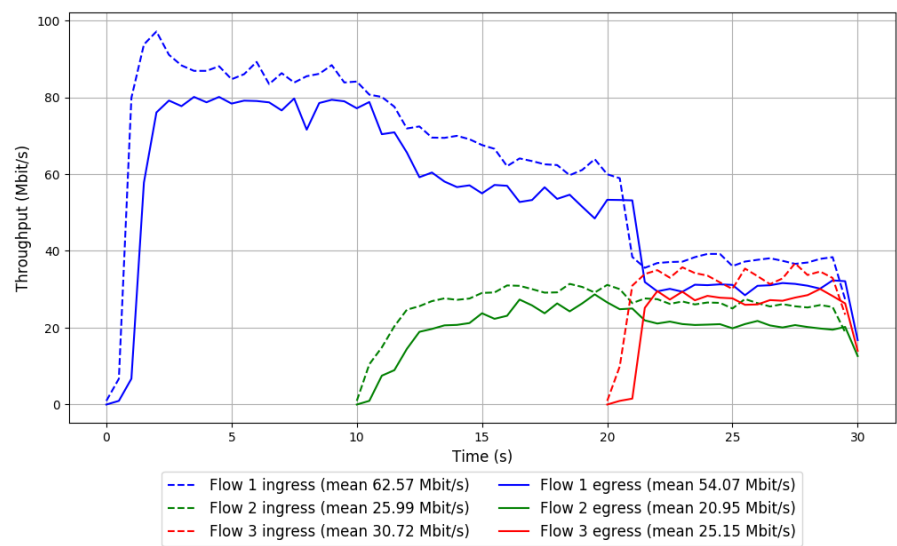
-- Flow 3:

Average throughput: 25.15 Mbit/s

95th percentile per-packet one-way delay: 114.278 ms

Loss rate: 19.50%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-07-10 23:25:54

End at: 2018-07-10 23:26:24

Local clock offset: -0.964 ms

Remote clock offset: 2.916 ms

Below is generated by plot.py at 2018-07-10 23:59:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.95 Mbit/s

95th percentile per-packet one-way delay: 118.729 ms

Loss rate: 1.69%

-- Flow 1:

Average throughput: 56.52 Mbit/s

95th percentile per-packet one-way delay: 116.534 ms

Loss rate: 1.79%

-- Flow 2:

Average throughput: 36.70 Mbit/s

95th percentile per-packet one-way delay: 120.136 ms

Loss rate: 1.34%

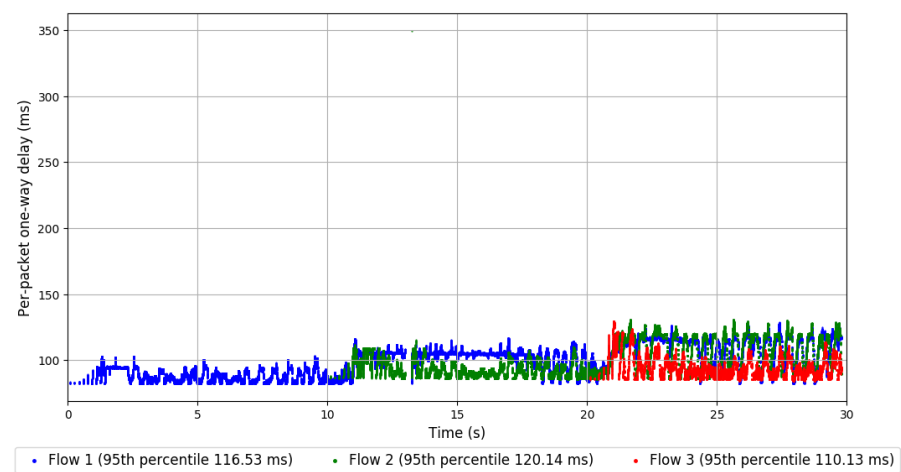
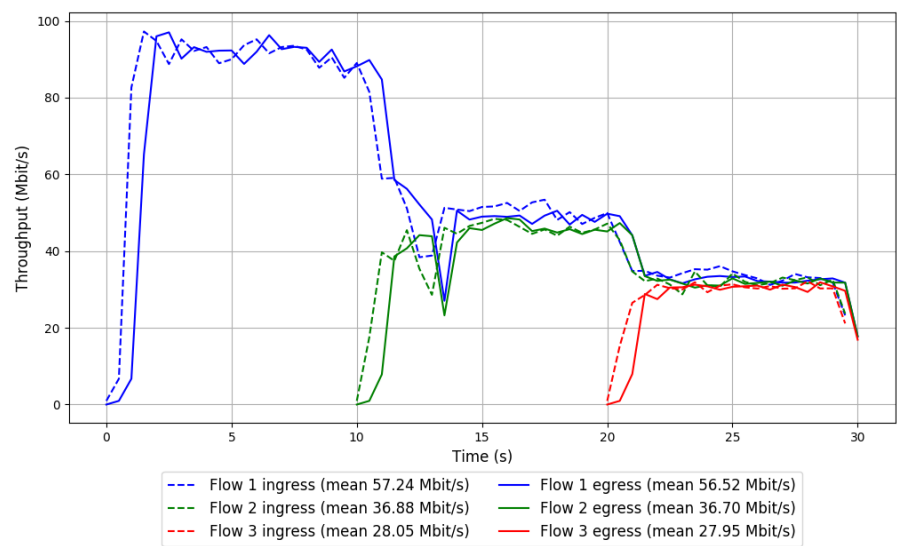
-- Flow 3:

Average throughput: 27.95 Mbit/s

95th percentile per-packet one-way delay: 110.133 ms

Loss rate: 2.02%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-10 23:47:03

End at: 2018-07-10 23:47:33

Local clock offset: -0.932 ms

Remote clock offset: 7.599 ms

Below is generated by plot.py at 2018-07-10 23:59:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.09 Mbit/s

95th percentile per-packet one-way delay: 115.149 ms

Loss rate: 1.67%

-- Flow 1:

Average throughput: 56.71 Mbit/s

95th percentile per-packet one-way delay: 114.923 ms

Loss rate: 1.69%

-- Flow 2:

Average throughput: 37.73 Mbit/s

95th percentile per-packet one-way delay: 115.594 ms

Loss rate: 1.15%

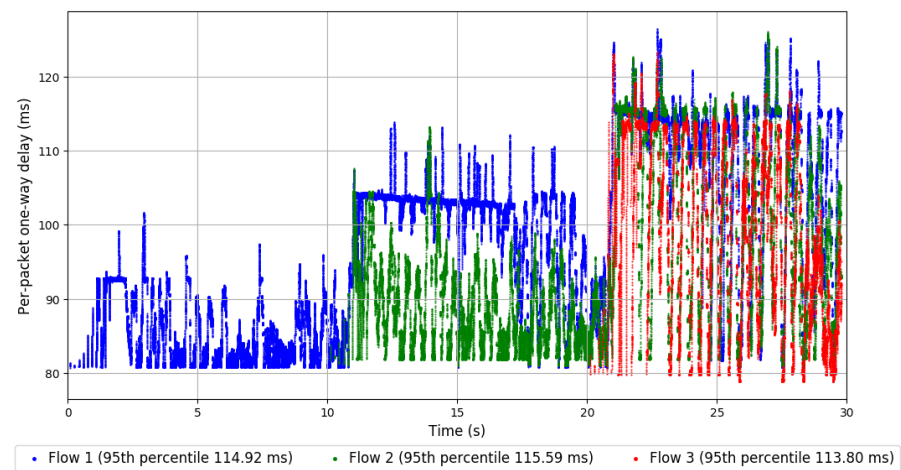
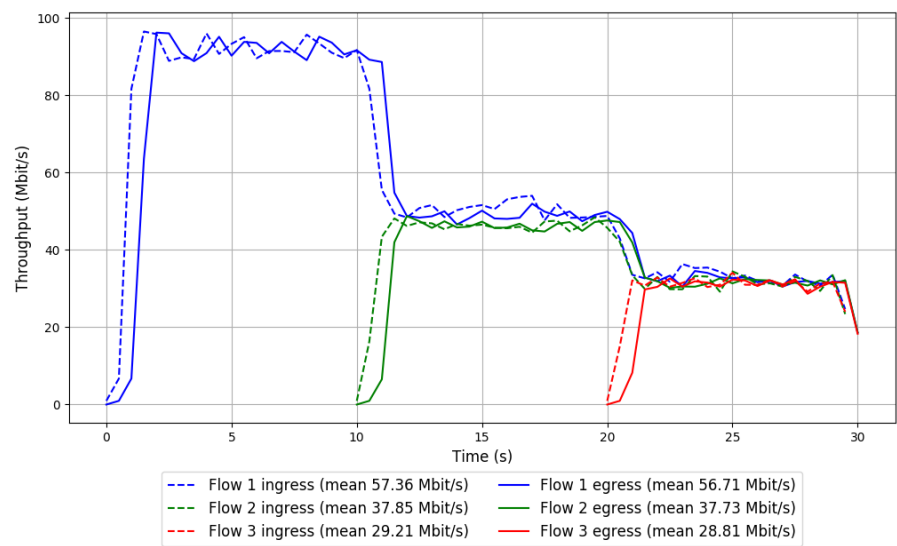
-- Flow 3:

Average throughput: 28.81 Mbit/s

95th percentile per-packet one-way delay: 113.801 ms

Loss rate: 2.99%

Run 10: Report of Indigo — Data Link

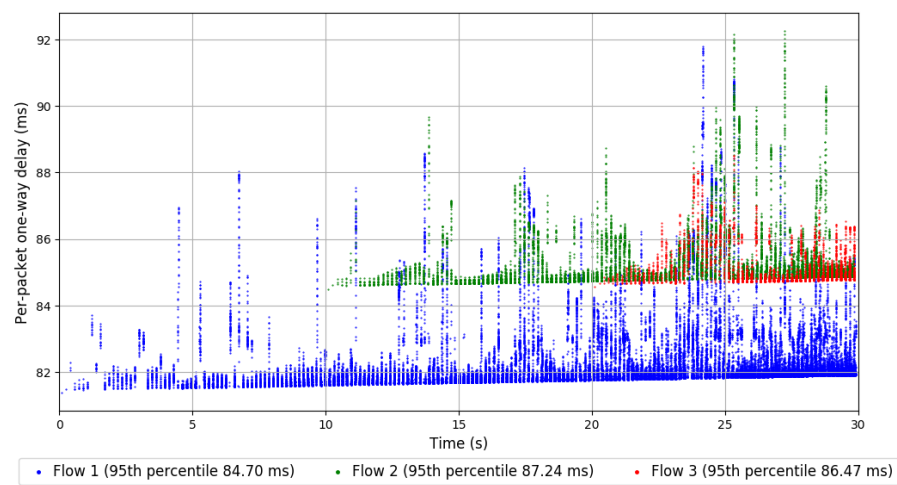
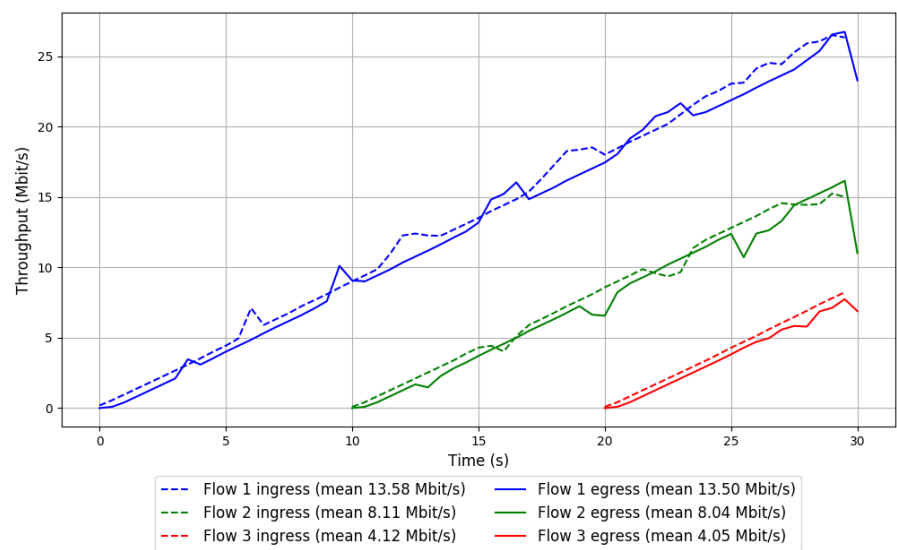


```
Run 1: Statistics of LEDBAT

Start at: 2018-07-10 20:25:57
End at: 2018-07-10 20:26:27
Local clock offset: -1.324 ms
Remote clock offset: 3.515 ms

# Below is generated by plot.py at 2018-07-10 23:59:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.14 Mbit/s
95th percentile per-packet one-way delay: 86.127 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 13.50 Mbit/s
95th percentile per-packet one-way delay: 84.696 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 8.04 Mbit/s
95th percentile per-packet one-way delay: 87.238 ms
Loss rate: 1.73%
-- Flow 3:
Average throughput: 4.05 Mbit/s
95th percentile per-packet one-way delay: 86.471 ms
Loss rate: 3.41%
```

Run 1: Report of LEDBAT — Data Link

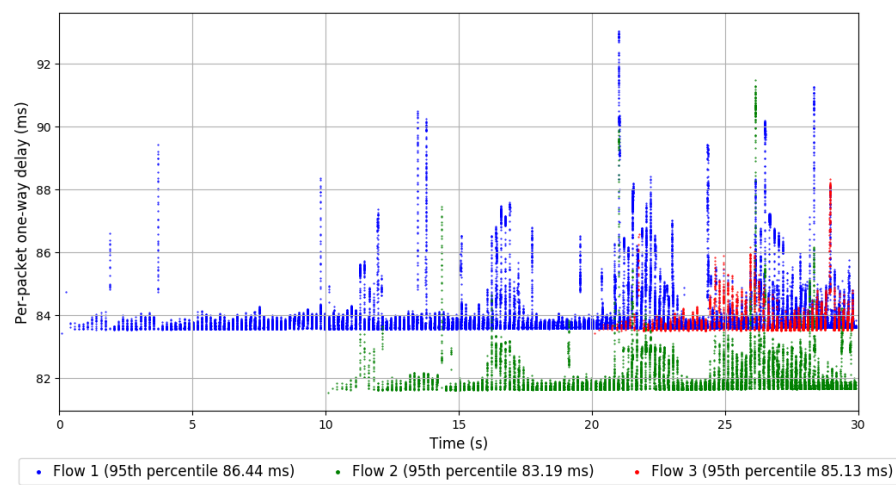
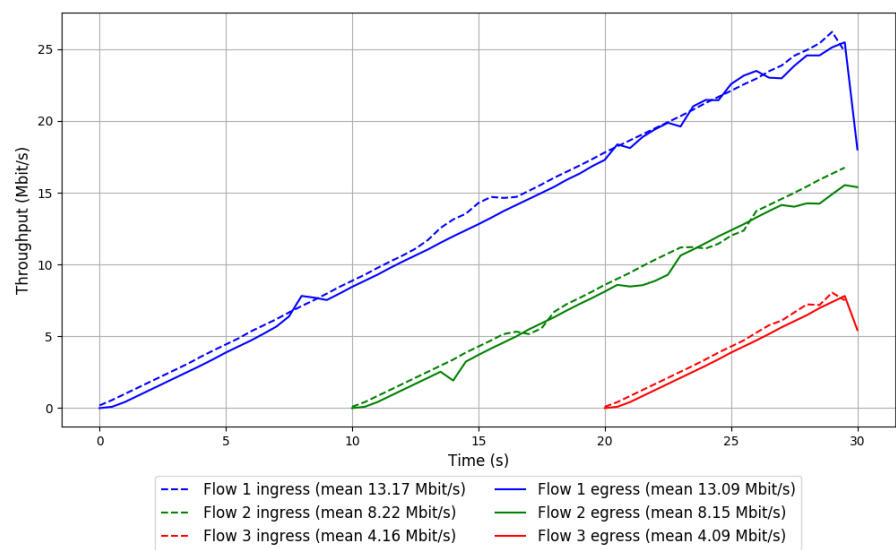


Run 2: Statistics of LEDBAT

Start at: 2018-07-10 20:47:08
End at: 2018-07-10 20:47:38
Local clock offset: -1.485 ms
Remote clock offset: 11.967 ms

Below is generated by plot.py at 2018-07-10 23:59:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.83 Mbit/s
95th percentile per-packet one-way delay: 85.887 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 13.09 Mbit/s
95th percentile per-packet one-way delay: 86.444 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 8.15 Mbit/s
95th percentile per-packet one-way delay: 83.185 ms
Loss rate: 1.71%
-- Flow 3:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 85.130 ms
Loss rate: 3.44%

Run 2: Report of LEDBAT — Data Link

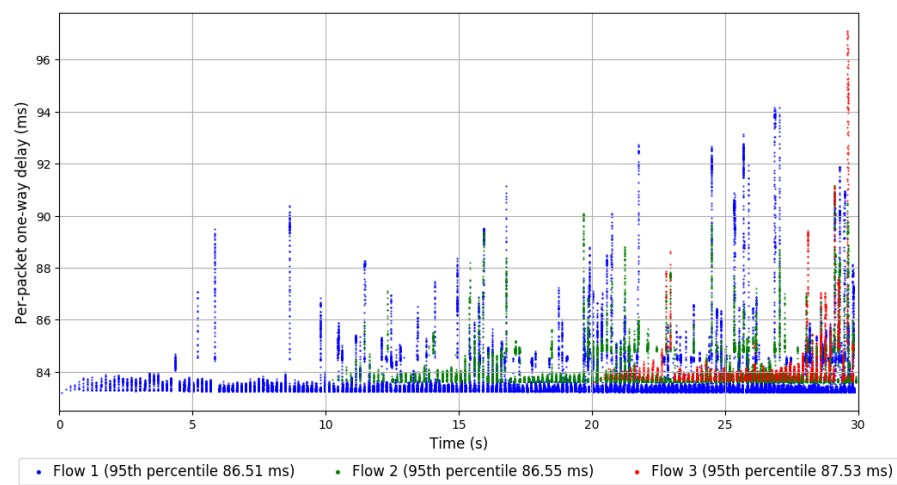
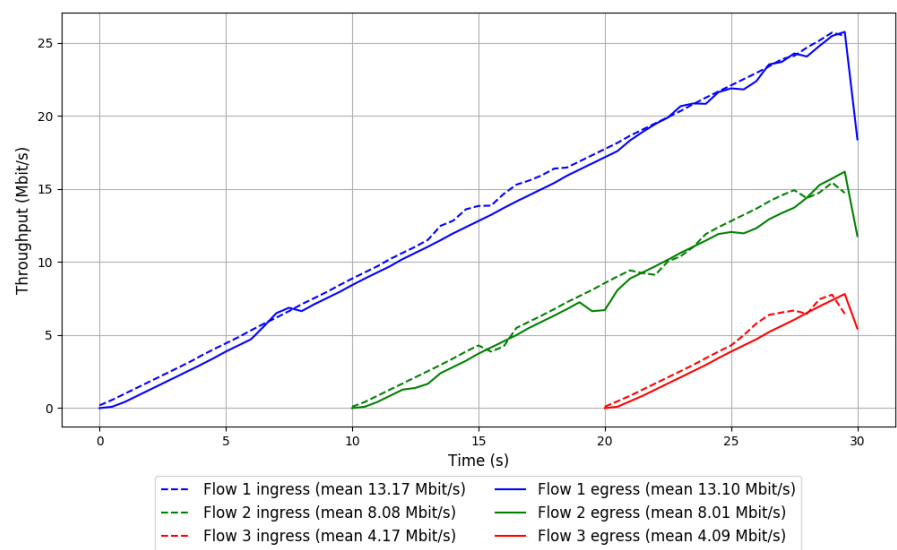


Run 3: Statistics of LEDBAT

Start at: 2018-07-10 21:08:16
End at: 2018-07-10 21:08:46
Local clock offset: -1.474 ms
Remote clock offset: 11.881 ms

Below is generated by plot.py at 2018-07-10 23:59:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.72 Mbit/s
95th percentile per-packet one-way delay: 86.613 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 13.10 Mbit/s
95th percentile per-packet one-way delay: 86.509 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 8.01 Mbit/s
95th percentile per-packet one-way delay: 86.554 ms
Loss rate: 1.65%
-- Flow 3:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 87.533 ms
Loss rate: 3.40%

Run 3: Report of LEDBAT — Data Link

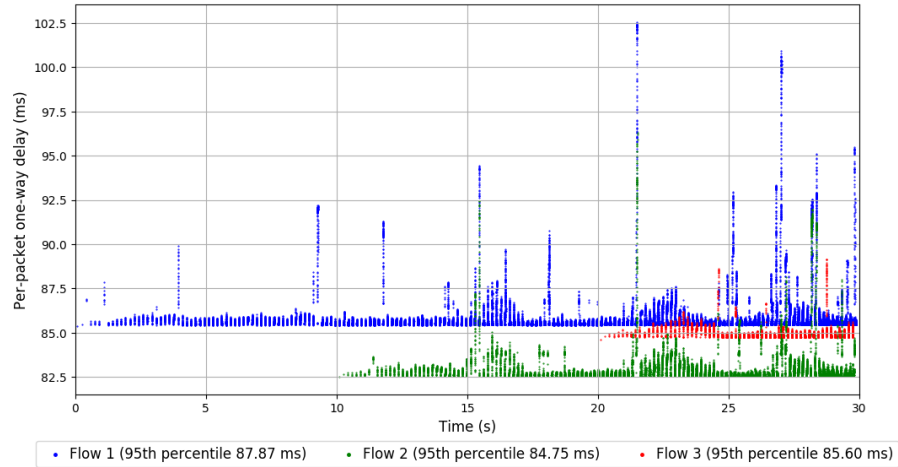
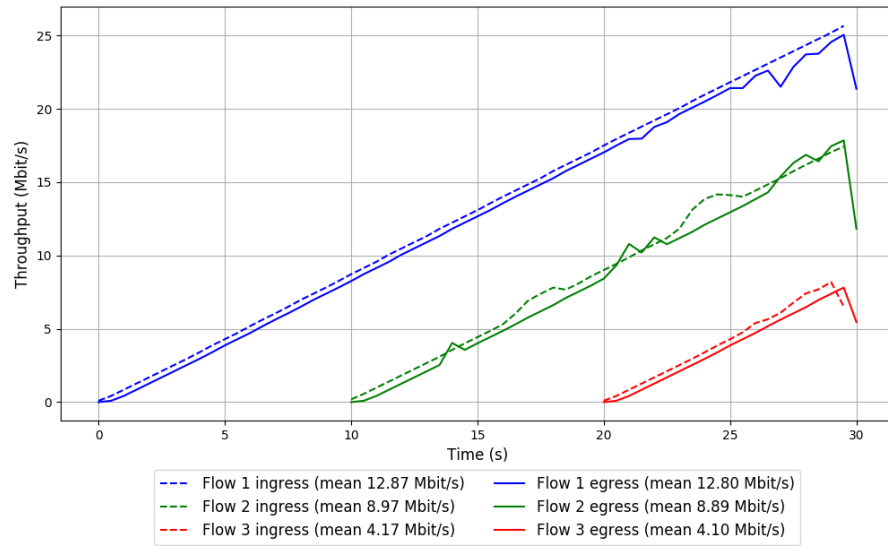


Run 4: Statistics of LEDBAT

Start at: 2018-07-10 21:29:27
End at: 2018-07-10 21:29:58
Local clock offset: -1.437 ms
Remote clock offset: 10.326 ms

Below is generated by plot.py at 2018-07-10 23:59:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 20.02 Mbit/s
95th percentile per-packet one-way delay: 87.078 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 12.80 Mbit/s
95th percentile per-packet one-way delay: 87.867 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 8.89 Mbit/s
95th percentile per-packet one-way delay: 84.746 ms
Loss rate: 1.64%
-- Flow 3:
Average throughput: 4.10 Mbit/s
95th percentile per-packet one-way delay: 85.596 ms
Loss rate: 3.43%

Run 4: Report of LEDBAT — Data Link

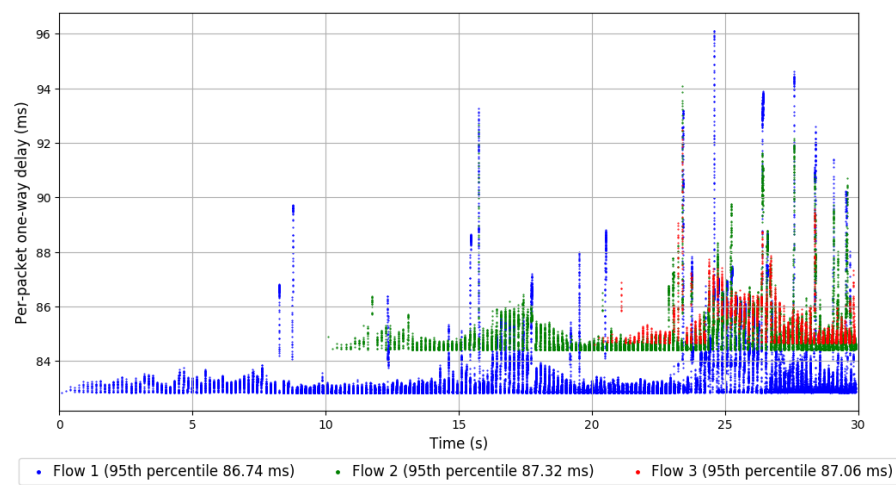
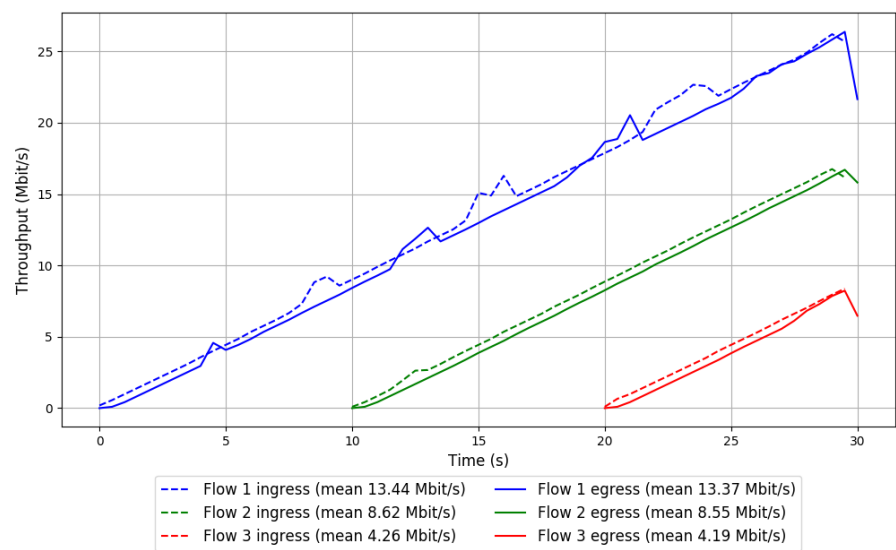


Run 5: Statistics of LEDBAT

Start at: 2018-07-10 21:50:37
End at: 2018-07-10 21:51:07
Local clock offset: -1.302 ms
Remote clock offset: 10.702 ms

Below is generated by plot.py at 2018-07-10 23:59:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 20.41 Mbit/s
95th percentile per-packet one-way delay: 86.900 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 13.37 Mbit/s
95th percentile per-packet one-way delay: 86.742 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 8.55 Mbit/s
95th percentile per-packet one-way delay: 87.321 ms
Loss rate: 1.68%
-- Flow 3:
Average throughput: 4.19 Mbit/s
95th percentile per-packet one-way delay: 87.056 ms
Loss rate: 3.36%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-07-10 22:11:53

End at: 2018-07-10 22:12:23

Local clock offset: -1.165 ms

Remote clock offset: 8.49 ms

Below is generated by plot.py at 2018-07-10 23:59:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.87 Mbit/s

95th percentile per-packet one-way delay: 86.566 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 12.93 Mbit/s

95th percentile per-packet one-way delay: 86.080 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 8.46 Mbit/s

95th percentile per-packet one-way delay: 87.572 ms

Loss rate: 1.69%

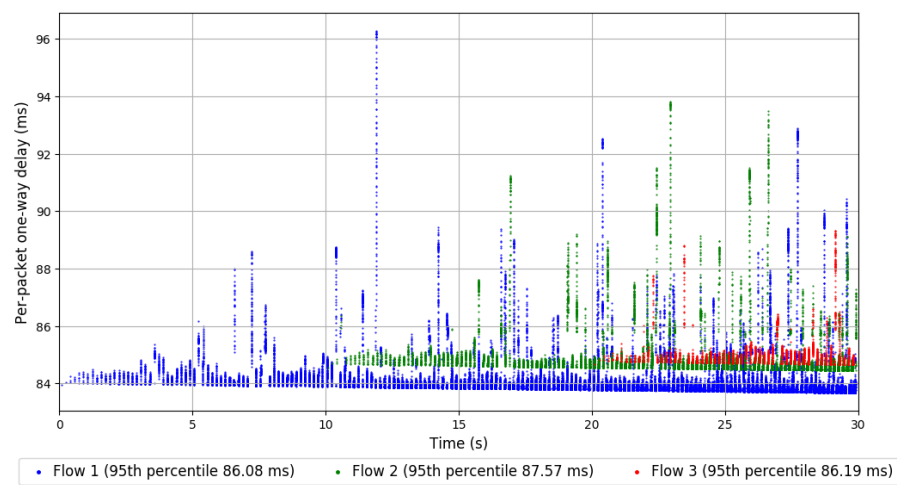
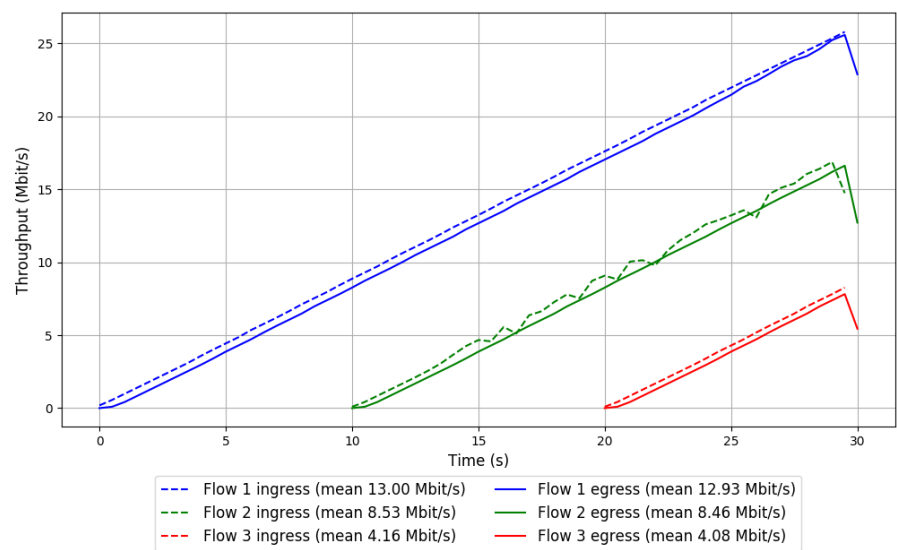
-- Flow 3:

Average throughput: 4.08 Mbit/s

95th percentile per-packet one-way delay: 86.189 ms

Loss rate: 3.43%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-07-10 22:33:15

End at: 2018-07-10 22:33:45

Local clock offset: -1.131 ms

Remote clock offset: 1.919 ms

Below is generated by plot.py at 2018-07-10 23:59:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.99 Mbit/s

95th percentile per-packet one-way delay: 87.804 ms

Loss rate: 1.33%

-- Flow 1:

Average throughput: 12.74 Mbit/s

95th percentile per-packet one-way delay: 88.150 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 7.36 Mbit/s

95th percentile per-packet one-way delay: 86.142 ms

Loss rate: 1.29%

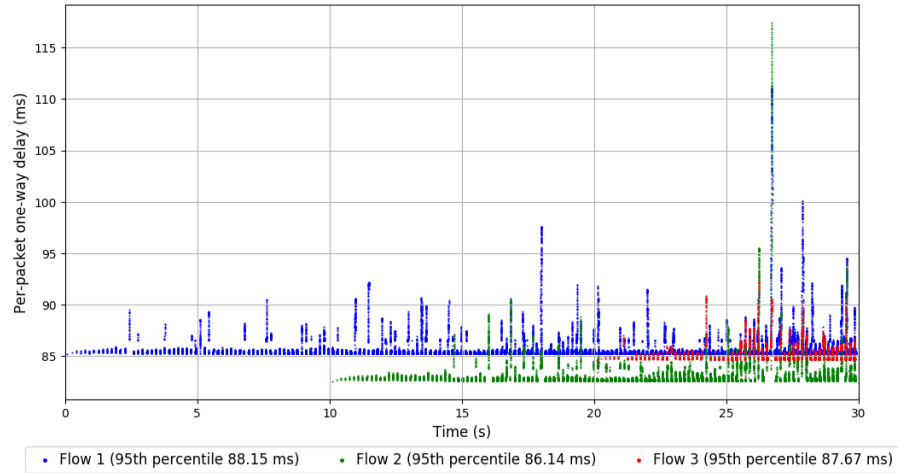
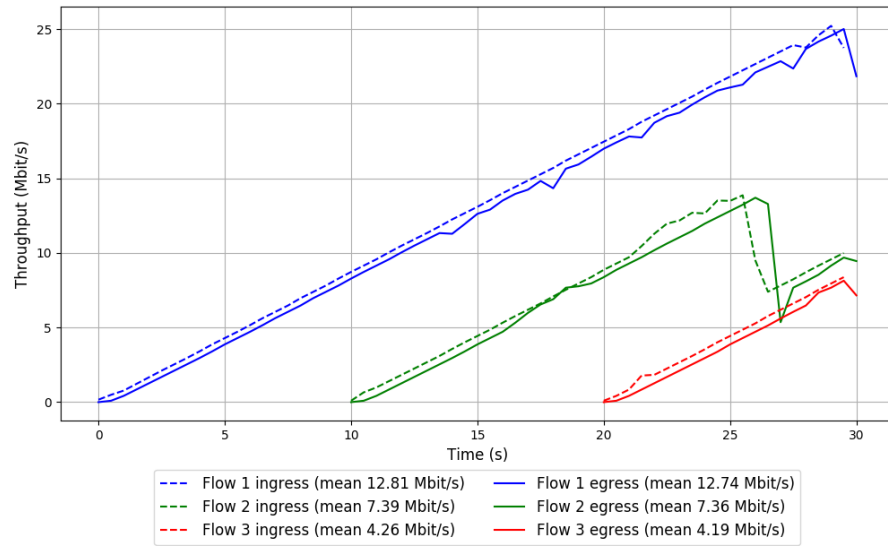
-- Flow 3:

Average throughput: 4.19 Mbit/s

95th percentile per-packet one-way delay: 87.675 ms

Loss rate: 3.36%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-07-10 22:54:25

End at: 2018-07-10 22:54:55

Local clock offset: -1.08 ms

Remote clock offset: 6.724 ms

Below is generated by plot.py at 2018-07-10 23:59:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.08 Mbit/s

95th percentile per-packet one-way delay: 81.056 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 13.09 Mbit/s

95th percentile per-packet one-way delay: 80.681 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 8.47 Mbit/s

95th percentile per-packet one-way delay: 81.899 ms

Loss rate: 1.68%

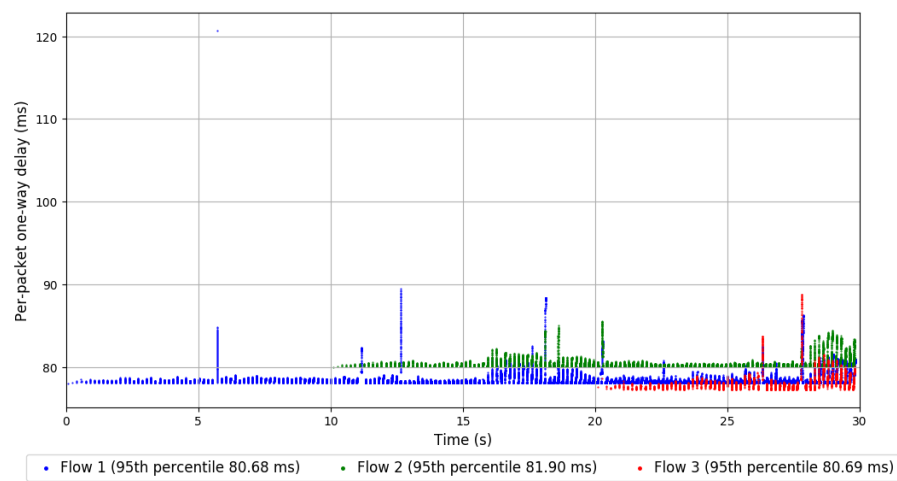
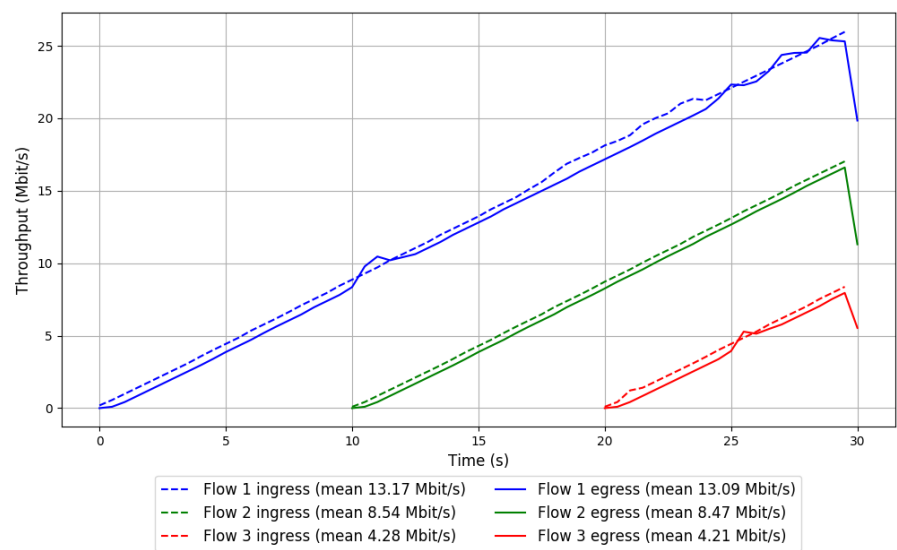
-- Flow 3:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 80.691 ms

Loss rate: 3.36%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-10 23:15:53

End at: 2018-07-10 23:16:23

Local clock offset: -0.962 ms

Remote clock offset: 1.863 ms

Below is generated by plot.py at 2018-07-10 23:59:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.16 Mbit/s

95th percentile per-packet one-way delay: 85.486 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 13.14 Mbit/s

95th percentile per-packet one-way delay: 85.478 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 8.58 Mbit/s

95th percentile per-packet one-way delay: 85.298 ms

Loss rate: 1.67%

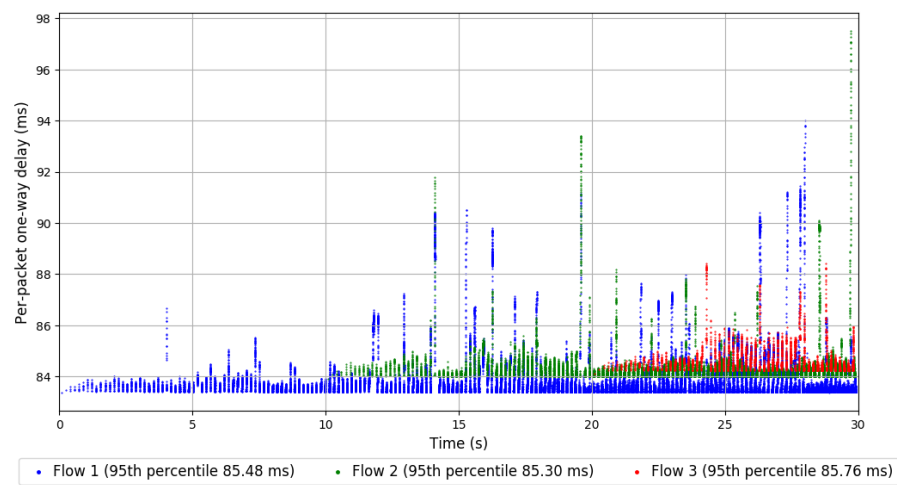
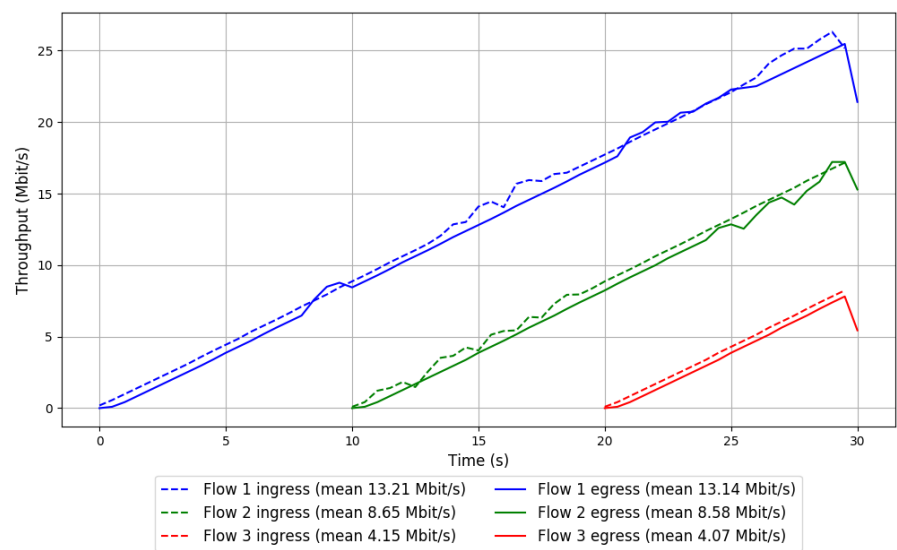
-- Flow 3:

Average throughput: 4.07 Mbit/s

95th percentile per-packet one-way delay: 85.759 ms

Loss rate: 3.41%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-10 23:37:10

End at: 2018-07-10 23:37:40

Local clock offset: -0.939 ms

Remote clock offset: 9.672 ms

Below is generated by plot.py at 2018-07-10 23:59:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.83 Mbit/s

95th percentile per-packet one-way delay: 79.431 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 12.89 Mbit/s

95th percentile per-packet one-way delay: 78.566 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 8.58 Mbit/s

95th percentile per-packet one-way delay: 79.898 ms

Loss rate: 1.67%

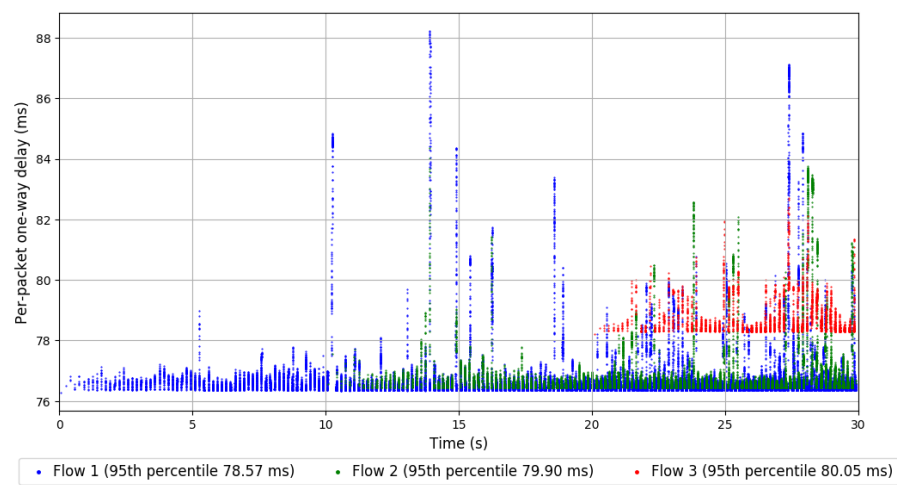
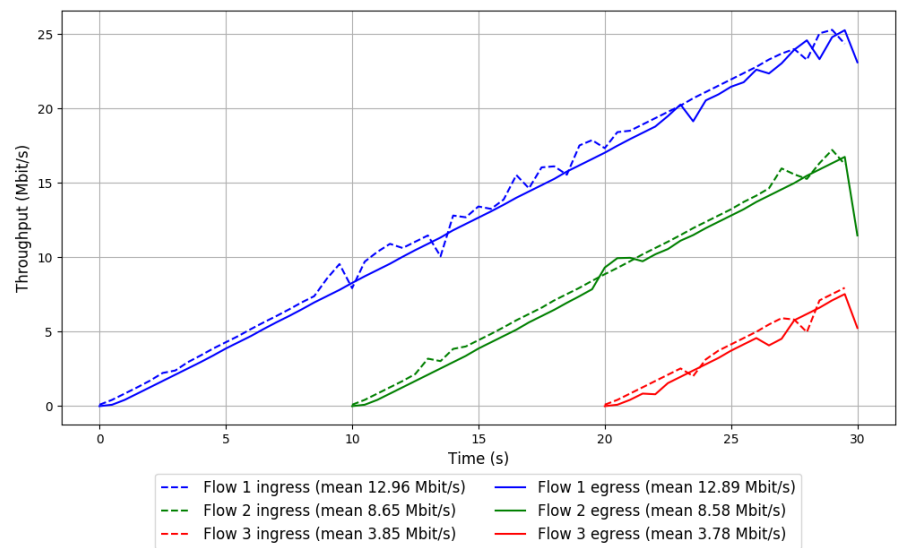
-- Flow 3:

Average throughput: 3.78 Mbit/s

95th percentile per-packet one-way delay: 80.048 ms

Loss rate: 3.53%

Run 10: Report of LEDBAT — Data Link

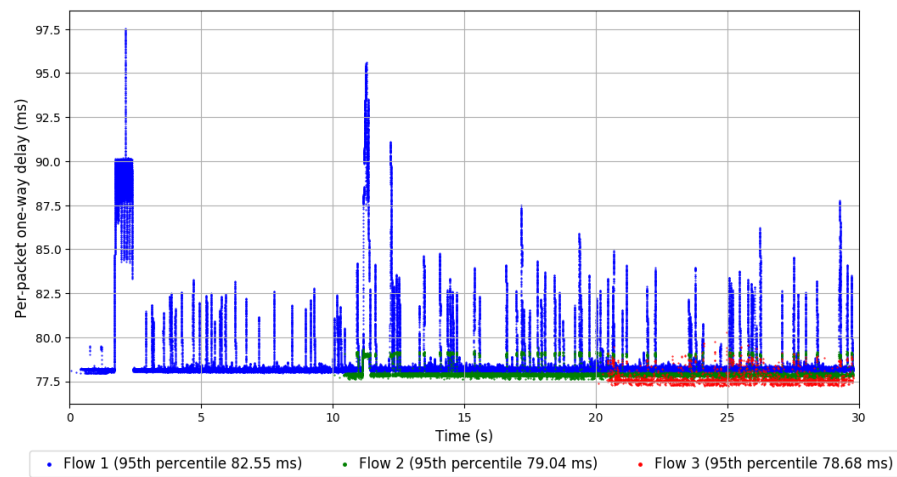
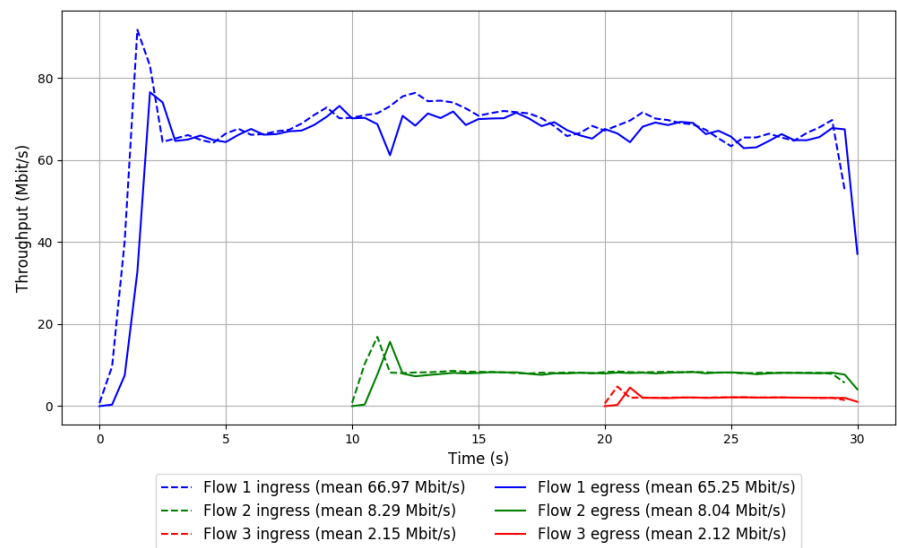


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-07-10 20:24:43
End at: 2018-07-10 20:25:13
Local clock offset: -1.307 ms
Remote clock offset: 7.501 ms

# Below is generated by plot.py at 2018-07-11 00:00:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.27 Mbit/s
95th percentile per-packet one-way delay: 82.180 ms
Loss rate: 3.16%
-- Flow 1:
Average throughput: 65.25 Mbit/s
95th percentile per-packet one-way delay: 82.551 ms
Loss rate: 3.10%
-- Flow 2:
Average throughput: 8.04 Mbit/s
95th percentile per-packet one-way delay: 79.037 ms
Loss rate: 3.84%
-- Flow 3:
Average throughput: 2.12 Mbit/s
95th percentile per-packet one-way delay: 78.684 ms
Loss rate: 3.41%
```

Run 1: Report of PCC-Allegro — Data Link

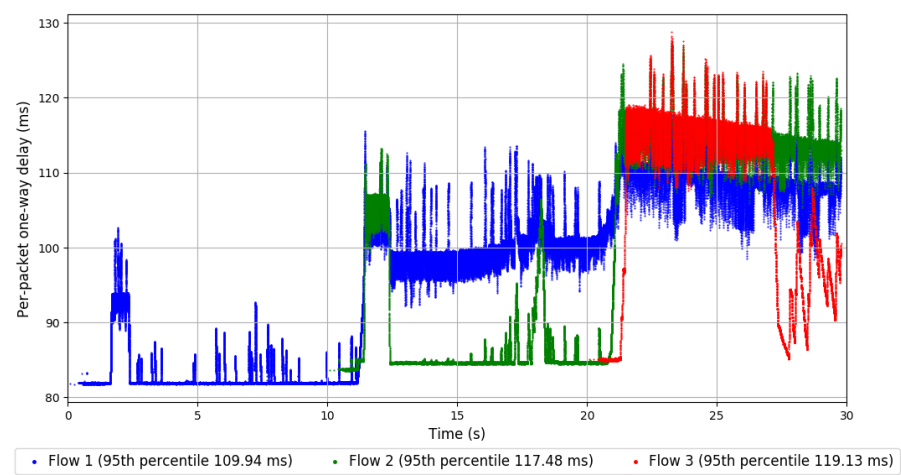
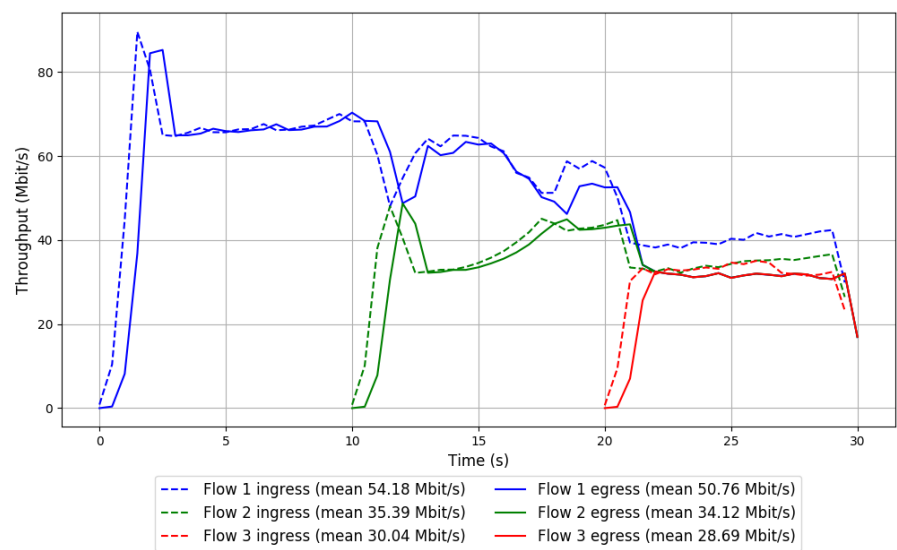


Run 2: Statistics of PCC-Allegro

Start at: 2018-07-10 20:45:54
End at: 2018-07-10 20:46:24
Local clock offset: -1.425 ms
Remote clock offset: 11.806 ms

Below is generated by plot.py at 2018-07-11 00:00:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.75 Mbit/s
95th percentile per-packet one-way delay: 116.132 ms
Loss rate: 6.12%
-- Flow 1:
Average throughput: 50.76 Mbit/s
95th percentile per-packet one-way delay: 109.944 ms
Loss rate: 6.83%
-- Flow 2:
Average throughput: 34.12 Mbit/s
95th percentile per-packet one-way delay: 117.481 ms
Loss rate: 4.45%
-- Flow 3:
Average throughput: 28.69 Mbit/s
95th percentile per-packet one-way delay: 119.127 ms
Loss rate: 6.13%

Run 2: Report of PCC-Allegro — Data Link

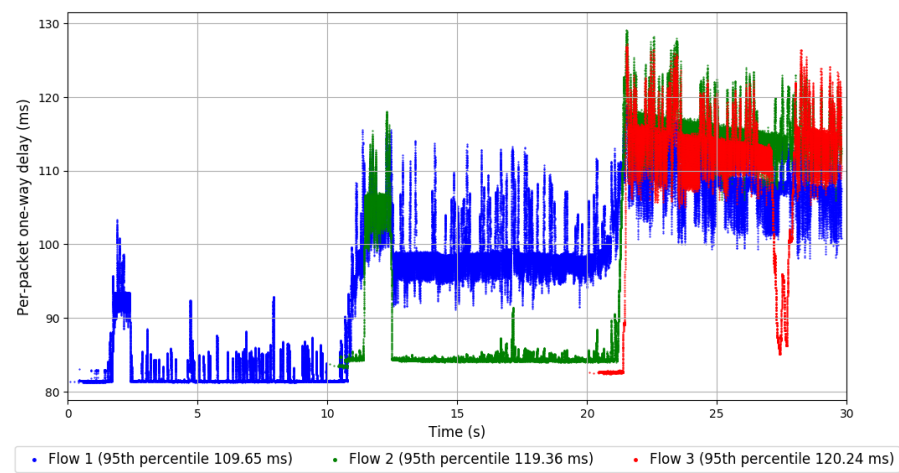
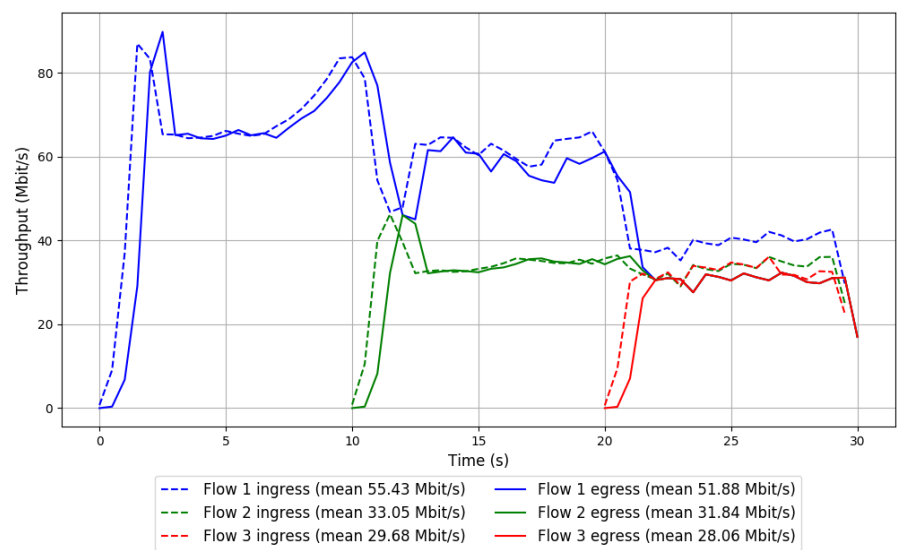


Run 3: Statistics of PCC-Allegro

Start at: 2018-07-10 21:07:02
End at: 2018-07-10 21:07:32
Local clock offset: -1.518 ms
Remote clock offset: 12.004 ms

Below is generated by plot.py at 2018-07-11 00:00:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.15 Mbit/s
95th percentile per-packet one-way delay: 116.347 ms
Loss rate: 6.36%
-- Flow 1:
Average throughput: 51.88 Mbit/s
95th percentile per-packet one-way delay: 109.649 ms
Loss rate: 6.95%
-- Flow 2:
Average throughput: 31.84 Mbit/s
95th percentile per-packet one-way delay: 119.362 ms
Loss rate: 4.49%
-- Flow 3:
Average throughput: 28.06 Mbit/s
95th percentile per-packet one-way delay: 120.237 ms
Loss rate: 7.18%

Run 3: Report of PCC-Allegro — Data Link

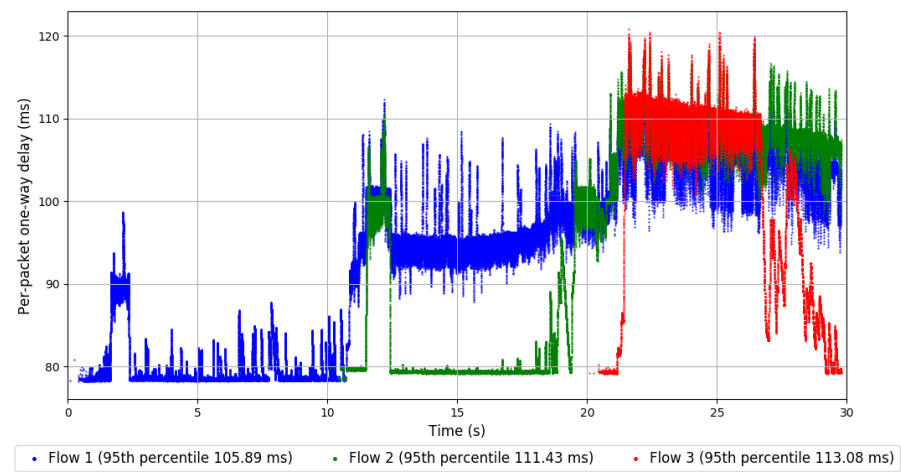
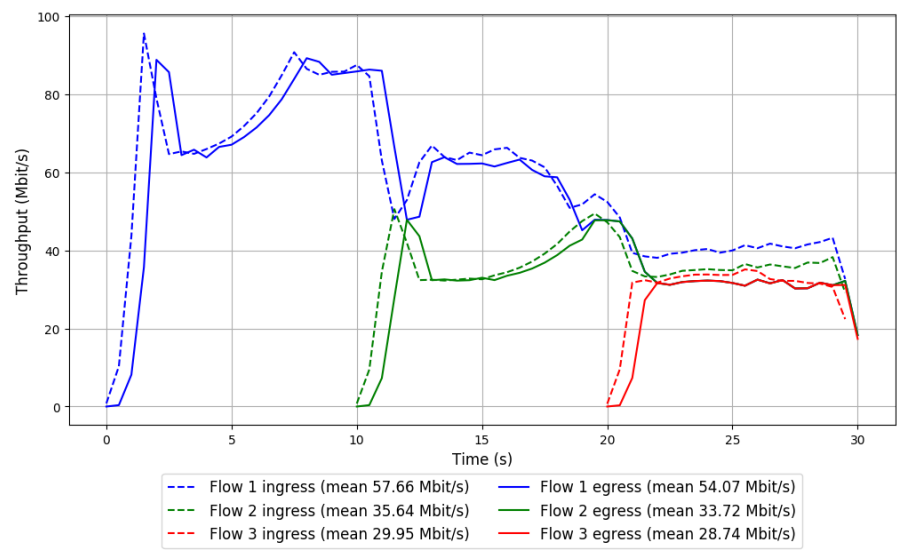


Run 4: Statistics of PCC-Allegro

Start at: 2018-07-10 21:28:13
End at: 2018-07-10 21:28:43
Local clock offset: -1.552 ms
Remote clock offset: 14.294 ms

Below is generated by plot.py at 2018-07-11 00:00:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.79 Mbit/s
95th percentile per-packet one-way delay: 110.203 ms
Loss rate: 6.49%
-- Flow 1:
Average throughput: 54.07 Mbit/s
95th percentile per-packet one-way delay: 105.890 ms
Loss rate: 6.75%
-- Flow 2:
Average throughput: 33.72 Mbit/s
95th percentile per-packet one-way delay: 111.426 ms
Loss rate: 6.21%
-- Flow 3:
Average throughput: 28.74 Mbit/s
95th percentile per-packet one-way delay: 113.083 ms
Loss rate: 5.63%

Run 4: Report of PCC-Allegro — Data Link

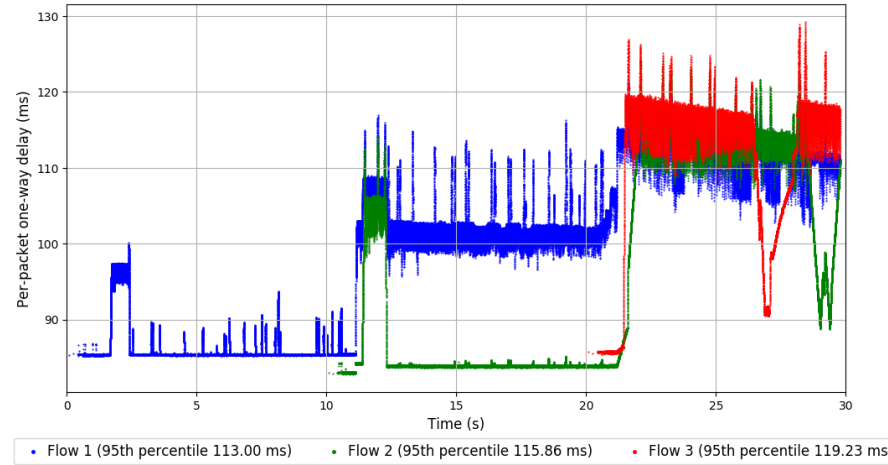
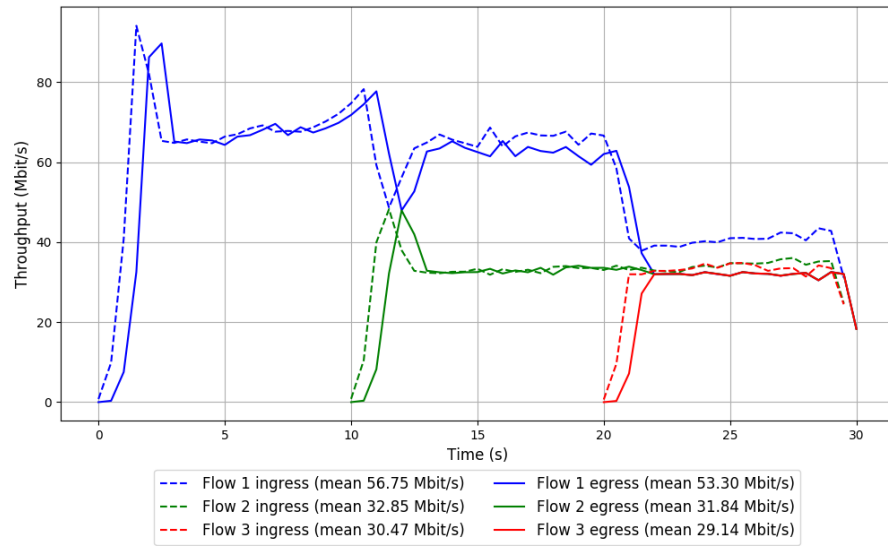


Run 5: Statistics of PCC-Allegro

Start at: 2018-07-10 21:49:23
End at: 2018-07-10 21:49:53
Local clock offset: -1.326 ms
Remote clock offset: 10.703 ms

Below is generated by plot.py at 2018-07-11 00:00:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.92 Mbit/s
95th percentile per-packet one-way delay: 116.232 ms
Loss rate: 5.91%
-- Flow 1:
Average throughput: 53.30 Mbit/s
95th percentile per-packet one-way delay: 112.999 ms
Loss rate: 6.65%
-- Flow 2:
Average throughput: 31.84 Mbit/s
95th percentile per-packet one-way delay: 115.858 ms
Loss rate: 3.87%
-- Flow 3:
Average throughput: 29.14 Mbit/s
95th percentile per-packet one-way delay: 119.230 ms
Loss rate: 6.13%

Run 5: Report of PCC-Allegro — Data Link

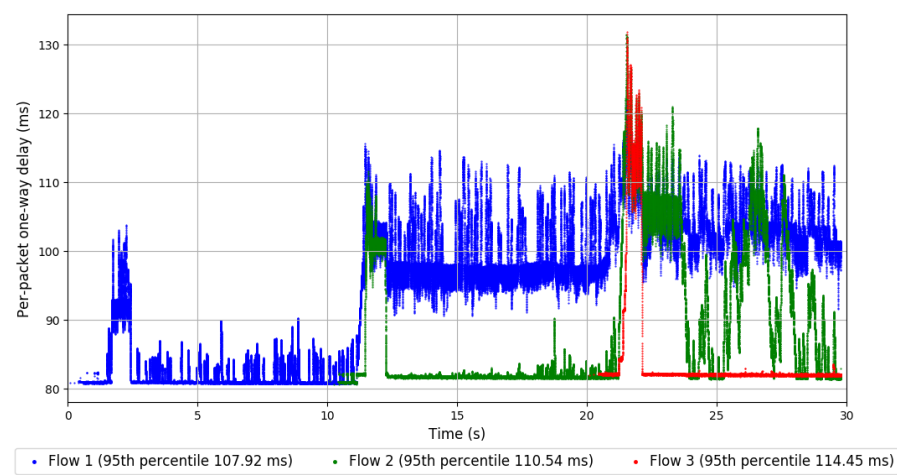
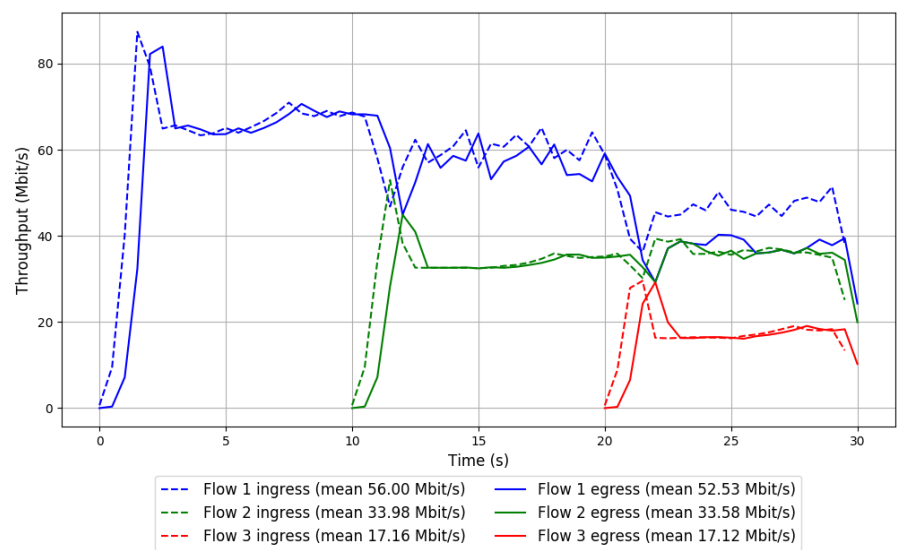


Run 6: Statistics of PCC-Allegro

Start at: 2018-07-10 22:10:38
End at: 2018-07-10 22:11:08
Local clock offset: -1.162 ms
Remote clock offset: 13.142 ms

Below is generated by plot.py at 2018-07-11 00:00:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.38 Mbit/s
95th percentile per-packet one-way delay: 108.717 ms
Loss rate: 5.13%
-- Flow 1:
Average throughput: 52.53 Mbit/s
95th percentile per-packet one-way delay: 107.915 ms
Loss rate: 6.73%
-- Flow 2:
Average throughput: 33.58 Mbit/s
95th percentile per-packet one-way delay: 110.537 ms
Loss rate: 1.97%
-- Flow 3:
Average throughput: 17.12 Mbit/s
95th percentile per-packet one-way delay: 114.453 ms
Loss rate: 1.94%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-10 22:31:53

End at: 2018-07-10 22:32:23

Local clock offset: -1.047 ms

Remote clock offset: 5.985 ms

Below is generated by plot.py at 2018-07-11 00:00:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.52 Mbit/s

95th percentile per-packet one-way delay: 87.650 ms

Loss rate: 3.64%

-- Flow 1:

Average throughput: 60.59 Mbit/s

95th percentile per-packet one-way delay: 88.505 ms

Loss rate: 3.54%

-- Flow 2:

Average throughput: 8.50 Mbit/s

95th percentile per-packet one-way delay: 82.657 ms

Loss rate: 4.22%

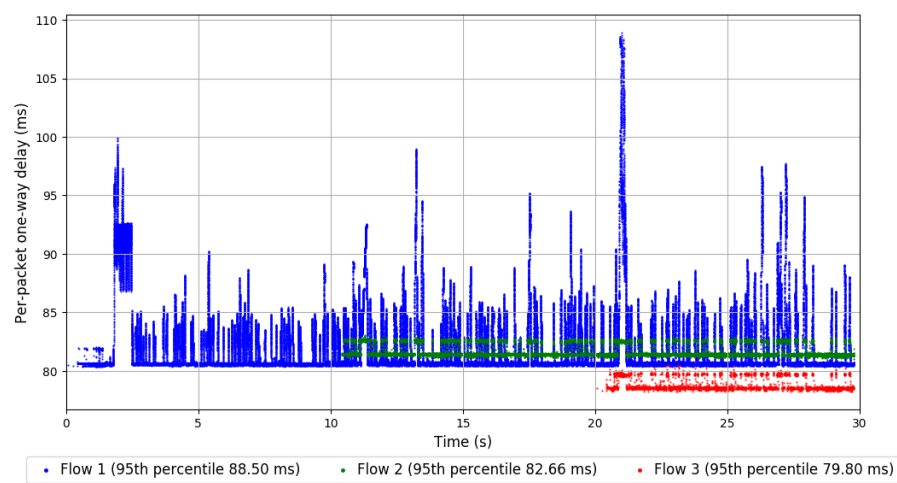
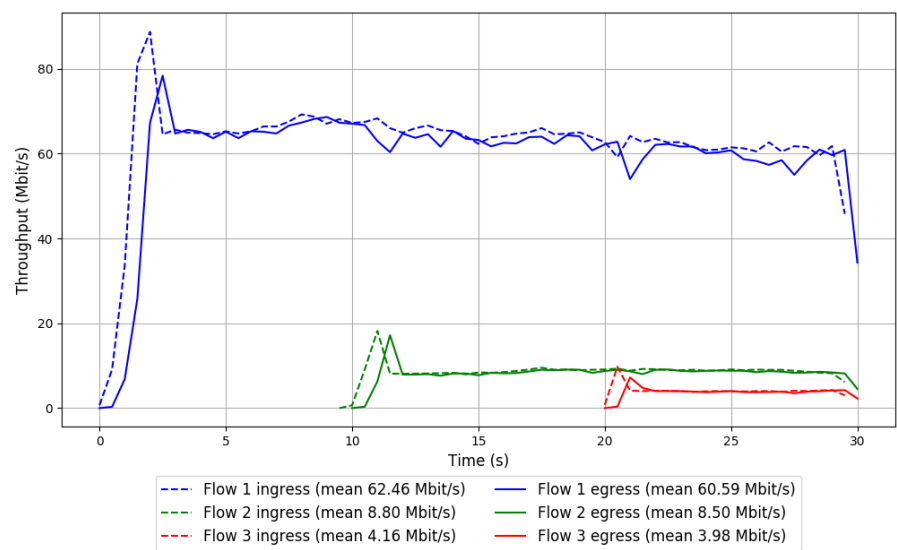
-- Flow 3:

Average throughput: 3.98 Mbit/s

95th percentile per-packet one-way delay: 79.796 ms

Loss rate: 5.74%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-07-10 22:53:11

End at: 2018-07-10 22:53:41

Local clock offset: -1.028 ms

Remote clock offset: 6.633 ms

Below is generated by plot.py at 2018-07-11 00:00:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.56 Mbit/s

95th percentile per-packet one-way delay: 108.894 ms

Loss rate: 5.30%

-- Flow 1:

Average throughput: 53.92 Mbit/s

95th percentile per-packet one-way delay: 105.577 ms

Loss rate: 6.60%

-- Flow 2:

Average throughput: 31.79 Mbit/s

95th percentile per-packet one-way delay: 109.970 ms

Loss rate: 2.16%

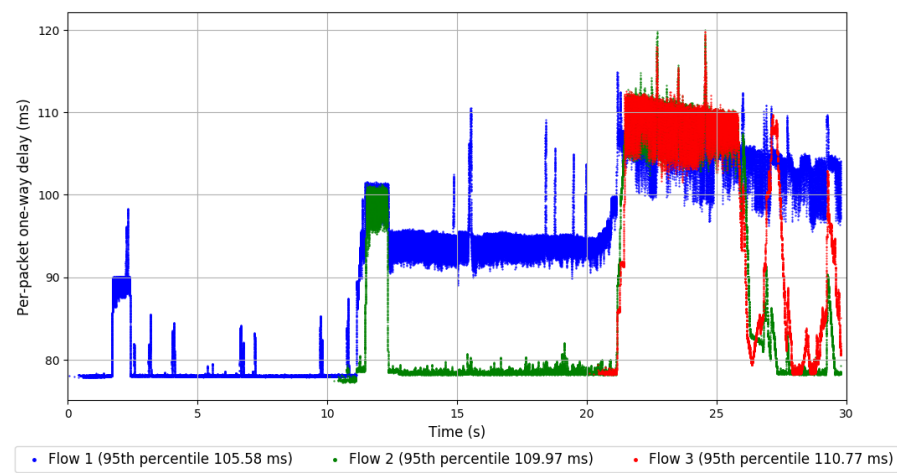
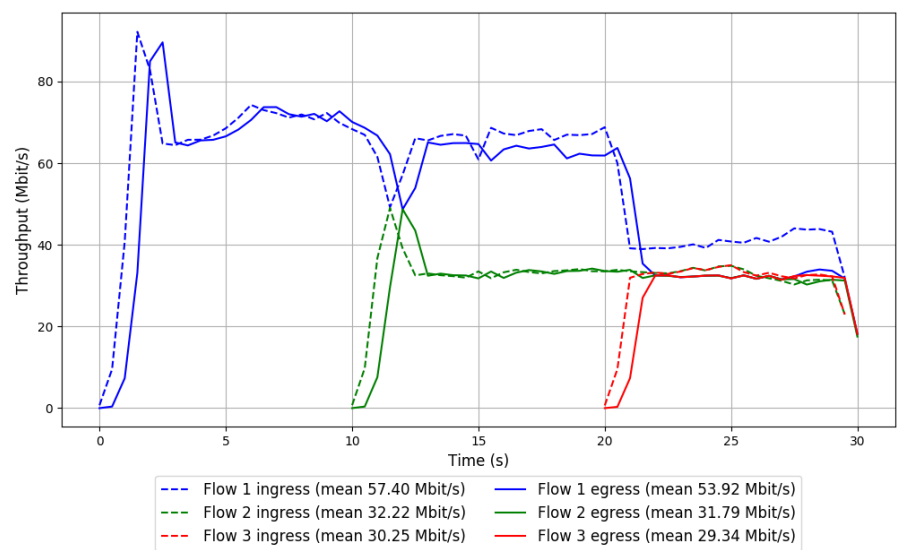
-- Flow 3:

Average throughput: 29.34 Mbit/s

95th percentile per-packet one-way delay: 110.770 ms

Loss rate: 4.59%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-10 23:14:39

End at: 2018-07-10 23:15:09

Local clock offset: -0.979 ms

Remote clock offset: 2.057 ms

Below is generated by plot.py at 2018-07-11 00:01:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.44 Mbit/s

95th percentile per-packet one-way delay: 115.732 ms

Loss rate: 3.34%

-- Flow 1:

Average throughput: 51.23 Mbit/s

95th percentile per-packet one-way delay: 115.740 ms

Loss rate: 3.31%

-- Flow 2:

Average throughput: 31.51 Mbit/s

95th percentile per-packet one-way delay: 114.915 ms

Loss rate: 1.75%

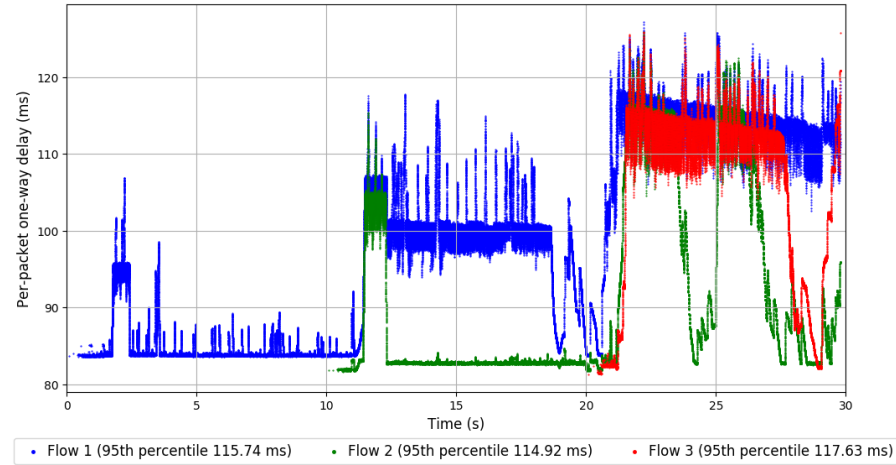
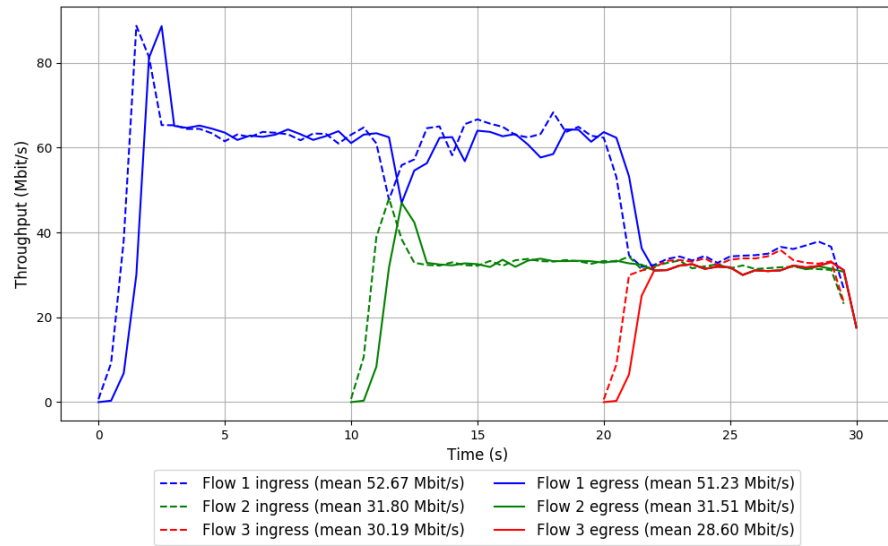
-- Flow 3:

Average throughput: 28.60 Mbit/s

95th percentile per-packet one-way delay: 117.630 ms

Loss rate: 6.87%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-07-10 23:35:56

End at: 2018-07-10 23:36:26

Local clock offset: -0.957 ms

Remote clock offset: 8.506 ms

Below is generated by plot.py at 2018-07-11 00:01:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.25 Mbit/s

95th percentile per-packet one-way delay: 83.037 ms

Loss rate: 3.44%

-- Flow 1:

Average throughput: 65.93 Mbit/s

95th percentile per-packet one-way delay: 83.558 ms

Loss rate: 3.34%

-- Flow 2:

Average throughput: 7.50 Mbit/s

95th percentile per-packet one-way delay: 80.684 ms

Loss rate: 4.32%

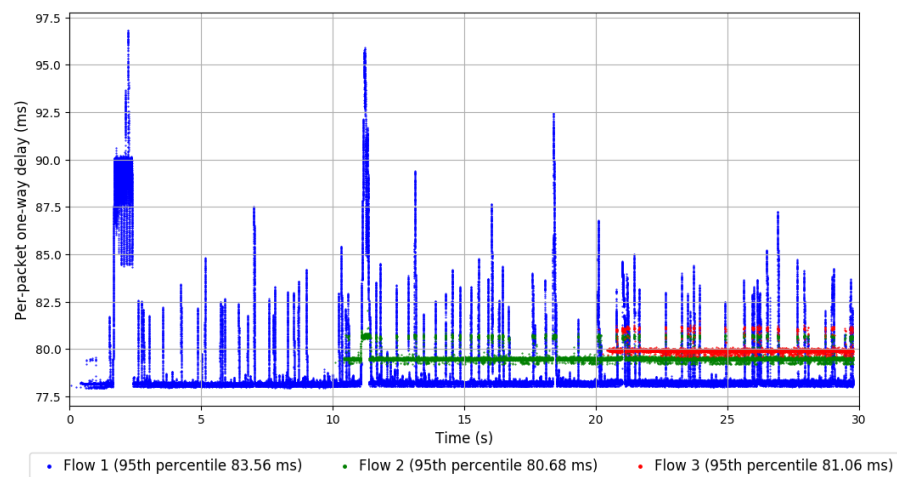
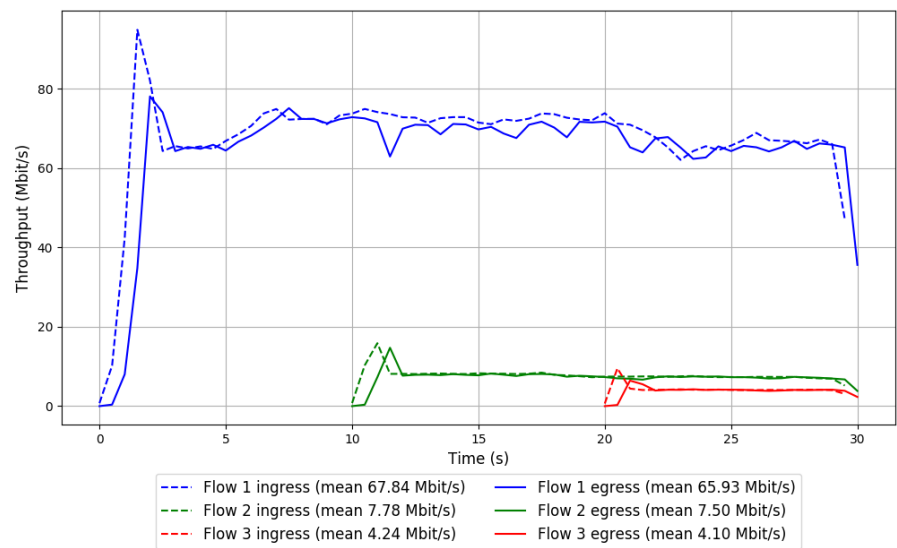
-- Flow 3:

Average throughput: 4.10 Mbit/s

95th percentile per-packet one-way delay: 81.057 ms

Loss rate: 4.85%

Run 10: Report of PCC-Allegro — Data Link

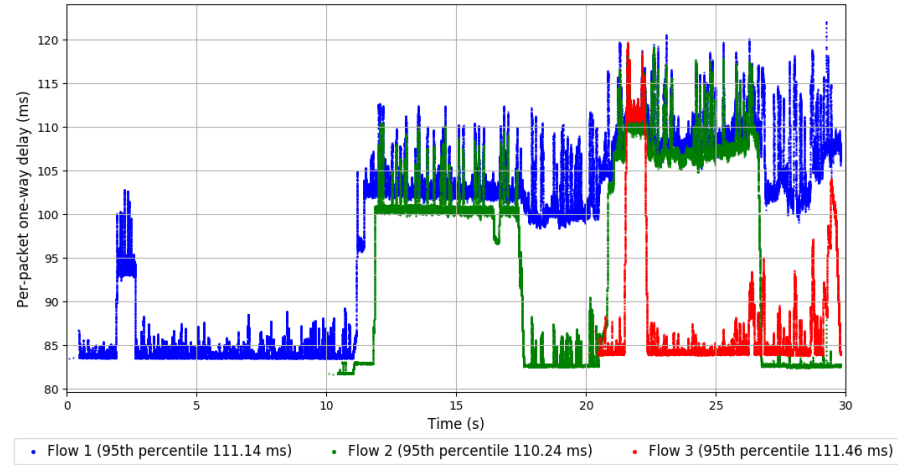
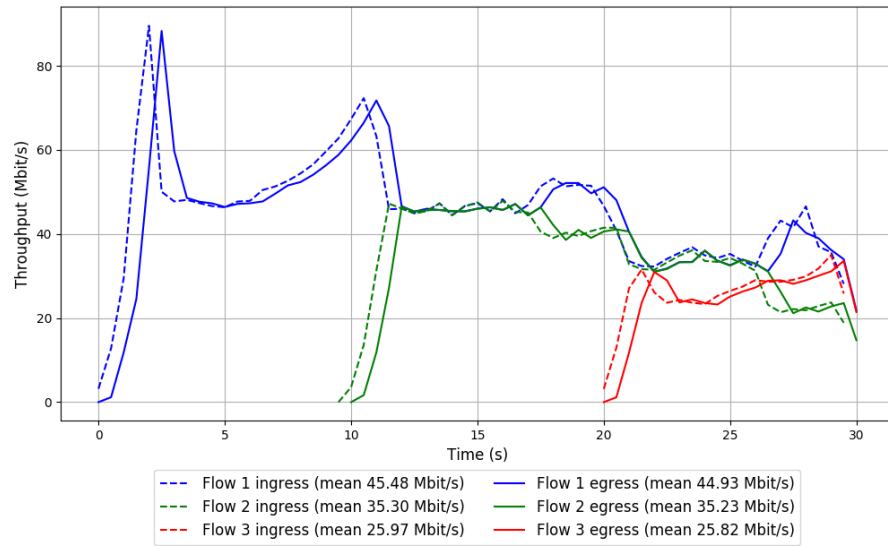


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-10 20:19:43
End at: 2018-07-10 20:20:13
Local clock offset: -1.306 ms
Remote clock offset: 3.79 ms

# Below is generated by plot.py at 2018-07-11 00:02:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.75 Mbit/s
95th percentile per-packet one-way delay: 111.142 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 44.93 Mbit/s
95th percentile per-packet one-way delay: 111.145 ms
Loss rate: 1.74%
-- Flow 2:
Average throughput: 35.23 Mbit/s
95th percentile per-packet one-way delay: 110.243 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 25.82 Mbit/s
95th percentile per-packet one-way delay: 111.457 ms
Loss rate: 2.26%
```

Run 1: Report of PCC-Expr — Data Link

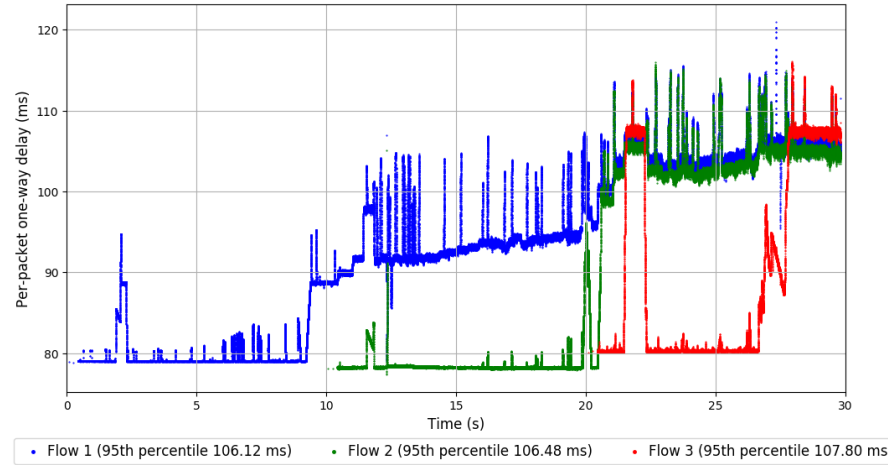
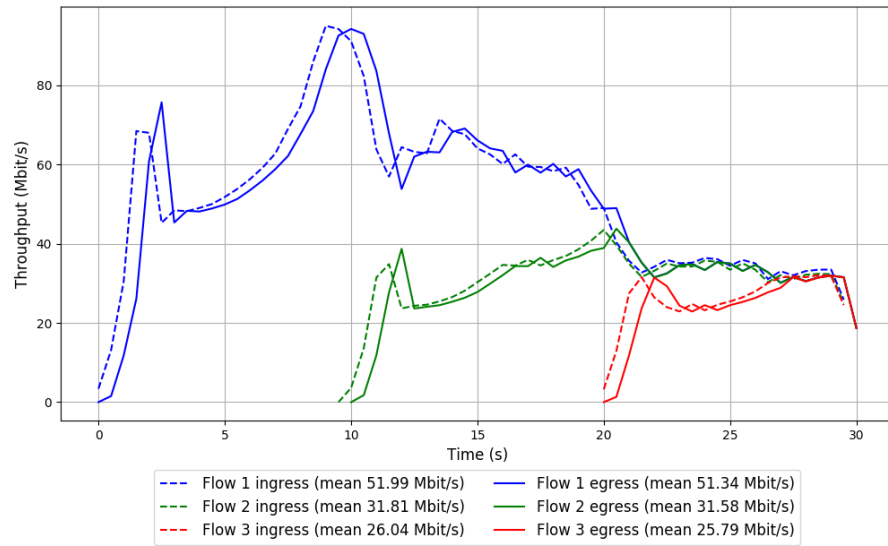


```
Run 2: Statistics of PCC-Expr

Start at: 2018-07-10 20:40:51
End at: 2018-07-10 20:41:21
Local clock offset: -1.403 ms
Remote clock offset: 15.721 ms

# Below is generated by plot.py at 2018-07-11 00:02:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.72 Mbit/s
95th percentile per-packet one-way delay: 107.265 ms
Loss rate: 1.84%
-- Flow 1:
Average throughput: 51.34 Mbit/s
95th percentile per-packet one-way delay: 106.118 ms
Loss rate: 1.82%
-- Flow 2:
Average throughput: 31.58 Mbit/s
95th percentile per-packet one-way delay: 106.484 ms
Loss rate: 1.59%
-- Flow 3:
Average throughput: 25.79 Mbit/s
95th percentile per-packet one-way delay: 107.803 ms
Loss rate: 2.61%
```

Run 2: Report of PCC-Expr — Data Link

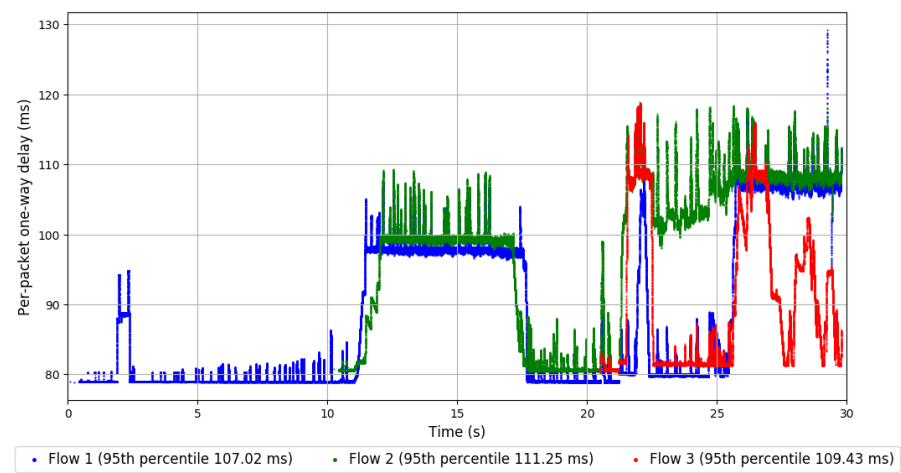
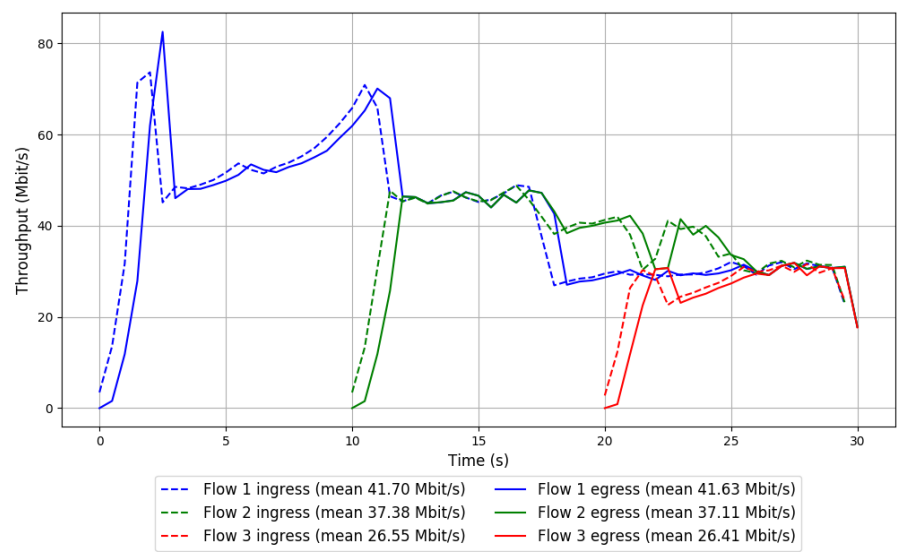


Run 3: Statistics of PCC-Expr

Start at: 2018-07-10 21:02:00
End at: 2018-07-10 21:02:30
Local clock offset: -1.519 ms
Remote clock offset: 15.736 ms

Below is generated by plot.py at 2018-07-11 00:02:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.87 Mbit/s
95th percentile per-packet one-way delay: 108.747 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 41.63 Mbit/s
95th percentile per-packet one-way delay: 107.015 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 37.11 Mbit/s
95th percentile per-packet one-way delay: 111.253 ms
Loss rate: 1.63%
-- Flow 3:
Average throughput: 26.41 Mbit/s
95th percentile per-packet one-way delay: 109.431 ms
Loss rate: 2.21%

Run 3: Report of PCC-Expr — Data Link

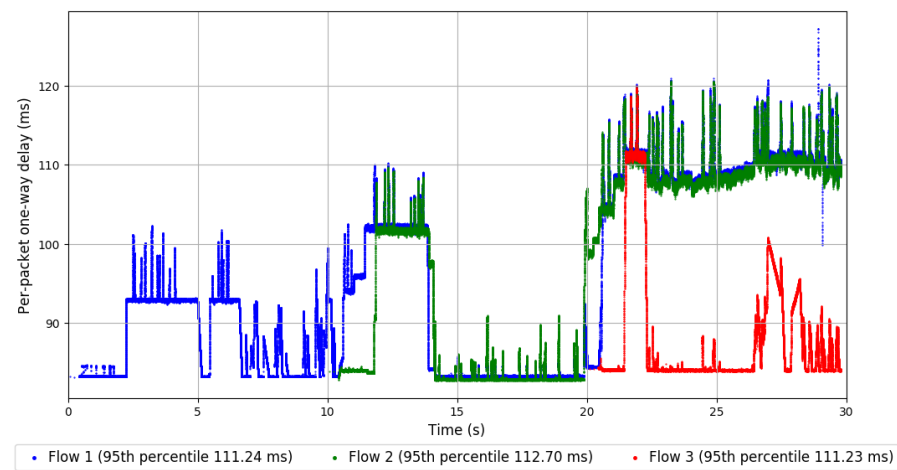
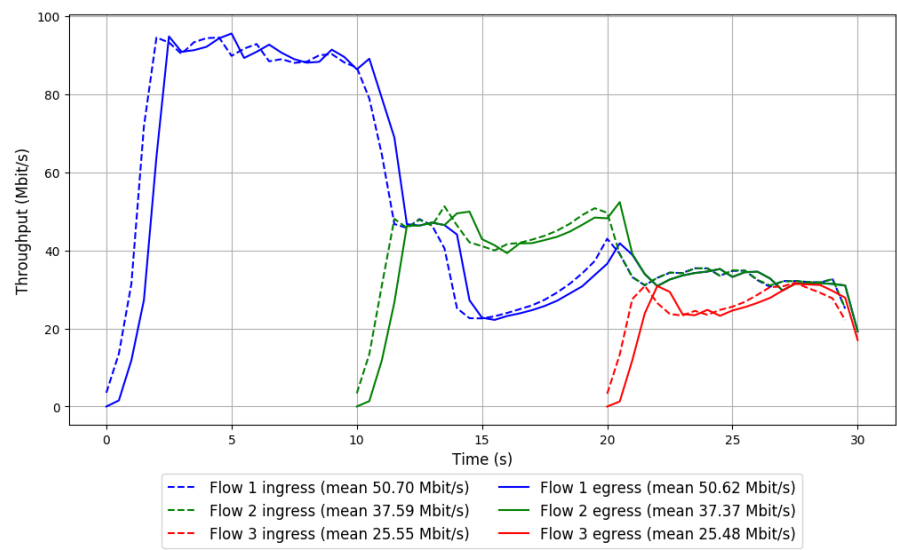


Run 4: Statistics of PCC-Expr

Start at: 2018-07-10 21:23:11
End at: 2018-07-10 21:23:41
Local clock offset: -1.49 ms
Remote clock offset: 10.265 ms

Below is generated by plot.py at 2018-07-11 00:02:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.73 Mbit/s
95th percentile per-packet one-way delay: 111.324 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 50.62 Mbit/s
95th percentile per-packet one-way delay: 111.243 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 37.37 Mbit/s
95th percentile per-packet one-way delay: 112.700 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 25.48 Mbit/s
95th percentile per-packet one-way delay: 111.226 ms
Loss rate: 1.96%

Run 4: Report of PCC-Expr — Data Link

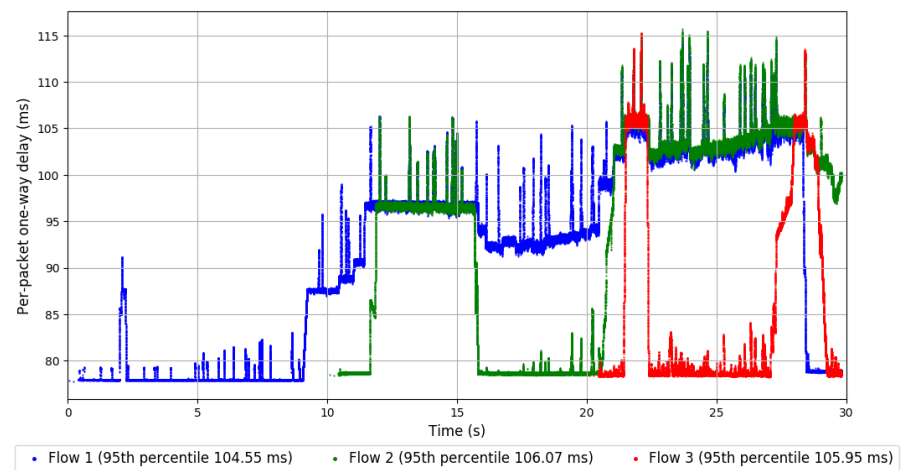
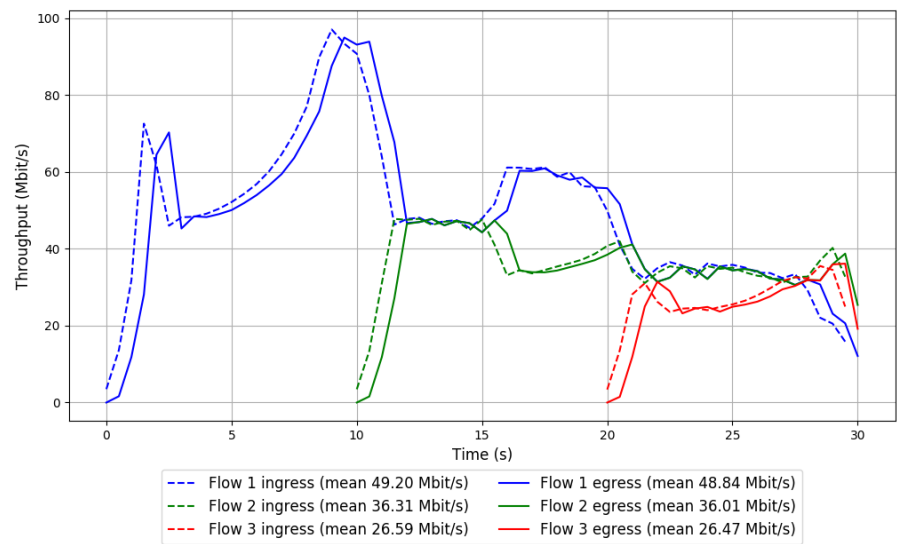


Run 5: Statistics of PCC-Expr

Start at: 2018-07-10 21:44:20
End at: 2018-07-10 21:44:50
Local clock offset: -1.369 ms
Remote clock offset: 15.494 ms

Below is generated by plot.py at 2018-07-11 00:02:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.37 Mbit/s
95th percentile per-packet one-way delay: 105.598 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 48.84 Mbit/s
95th percentile per-packet one-way delay: 104.553 ms
Loss rate: 1.27%
-- Flow 2:
Average throughput: 36.01 Mbit/s
95th percentile per-packet one-way delay: 106.073 ms
Loss rate: 1.68%
-- Flow 3:
Average throughput: 26.47 Mbit/s
95th percentile per-packet one-way delay: 105.950 ms
Loss rate: 2.13%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-07-10 22:05:37

End at: 2018-07-10 22:06:07

Local clock offset: -1.239 ms

Remote clock offset: 11.13 ms

Below is generated by plot.py at 2018-07-11 00:02:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.77 Mbit/s

95th percentile per-packet one-way delay: 115.818 ms

Loss rate: 1.97%

-- Flow 1:

Average throughput: 49.14 Mbit/s

95th percentile per-packet one-way delay: 111.849 ms

Loss rate: 1.95%

-- Flow 2:

Average throughput: 30.73 Mbit/s

95th percentile per-packet one-way delay: 118.033 ms

Loss rate: 1.78%

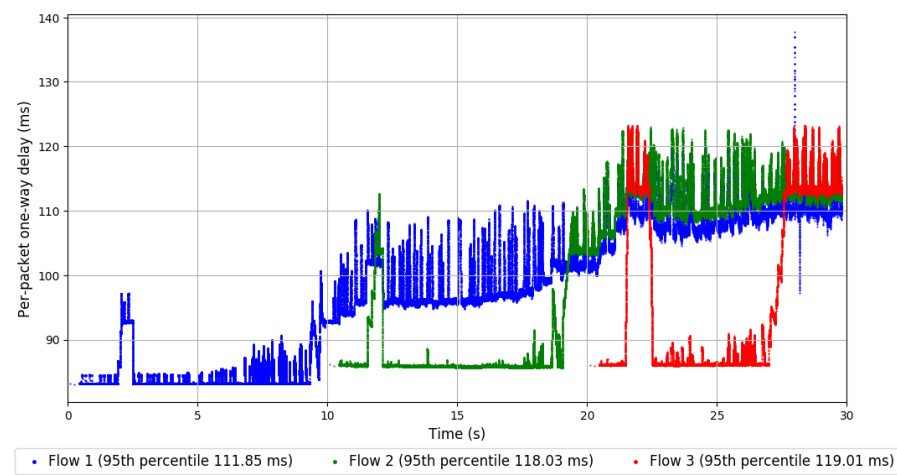
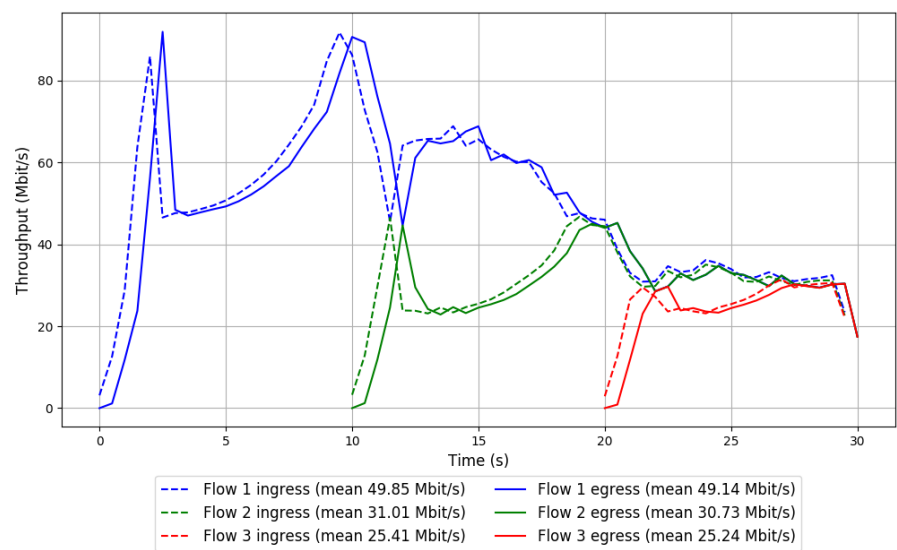
-- Flow 3:

Average throughput: 25.24 Mbit/s

95th percentile per-packet one-way delay: 119.010 ms

Loss rate: 2.50%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-07-10 22:26:51

End at: 2018-07-10 22:27:21

Local clock offset: -1.089 ms

Remote clock offset: 6.83 ms

Below is generated by plot.py at 2018-07-11 00:03:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.25 Mbit/s

95th percentile per-packet one-way delay: 108.514 ms

Loss rate: 1.67%

-- Flow 1:

Average throughput: 55.23 Mbit/s

95th percentile per-packet one-way delay: 106.049 ms

Loss rate: 1.64%

-- Flow 2:

Average throughput: 31.26 Mbit/s

95th percentile per-packet one-way delay: 111.075 ms

Loss rate: 1.65%

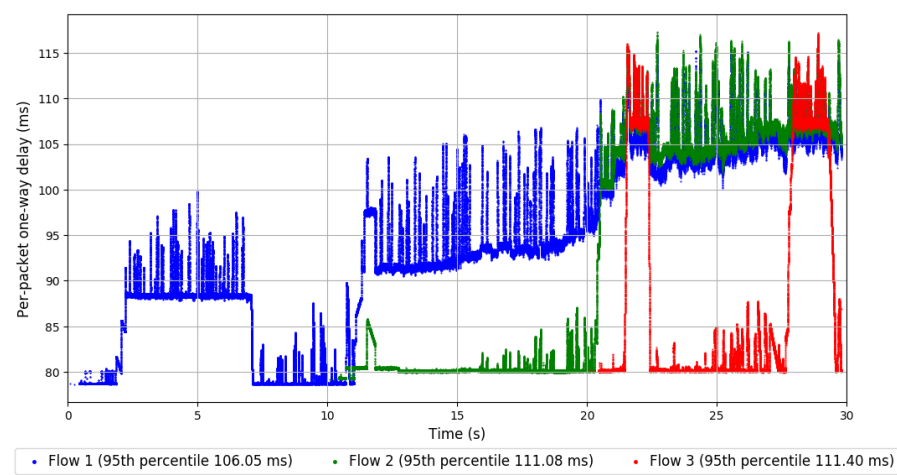
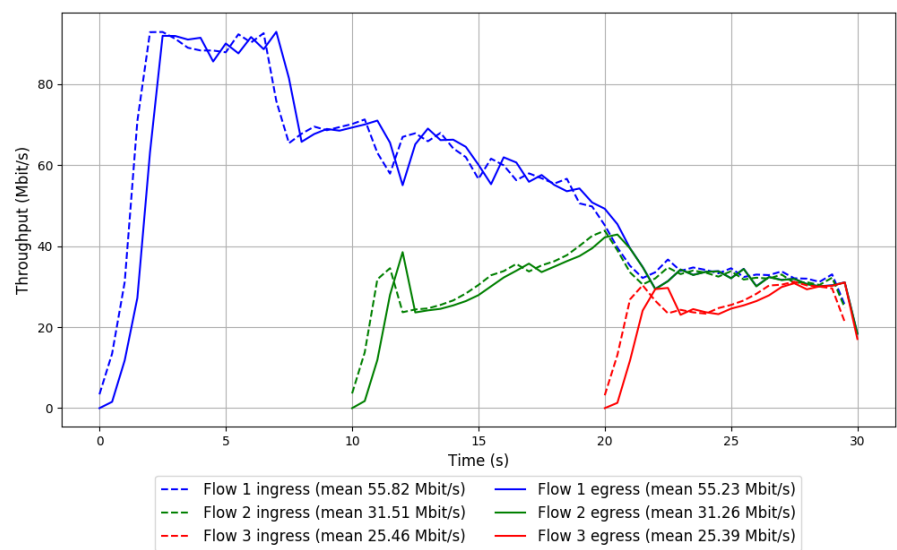
-- Flow 3:

Average throughput: 25.39 Mbit/s

95th percentile per-packet one-way delay: 111.397 ms

Loss rate: 1.90%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-07-10 22:48:08

End at: 2018-07-10 22:48:38

Local clock offset: -1.089 ms

Remote clock offset: 7.483 ms

Below is generated by plot.py at 2018-07-11 00:03:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.46 Mbit/s

95th percentile per-packet one-way delay: 104.515 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 53.43 Mbit/s

95th percentile per-packet one-way delay: 104.032 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 39.91 Mbit/s

95th percentile per-packet one-way delay: 103.836 ms

Loss rate: 1.56%

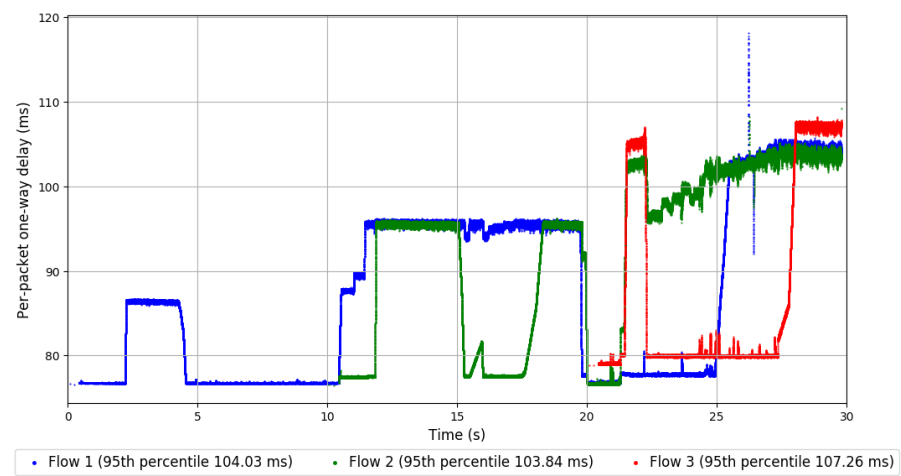
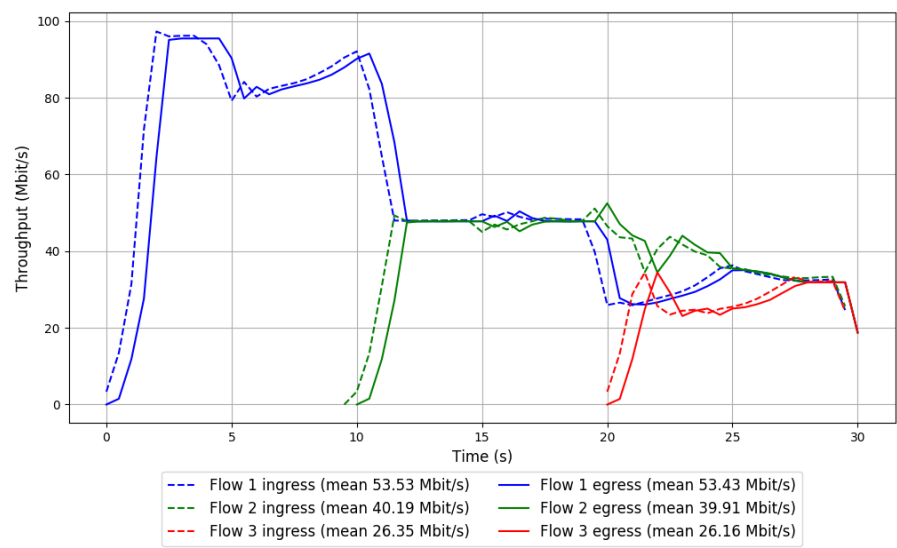
-- Flow 3:

Average throughput: 26.16 Mbit/s

95th percentile per-packet one-way delay: 107.259 ms

Loss rate: 2.52%

Run 8: Report of PCC-Expr — Data Link

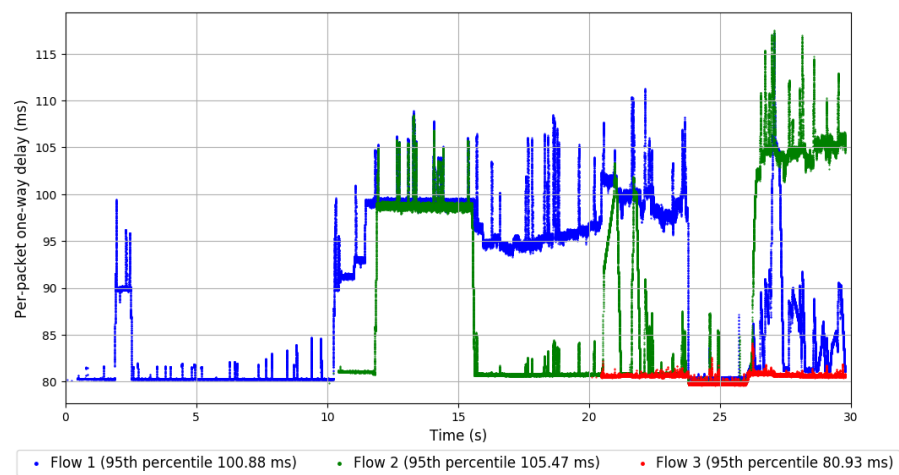
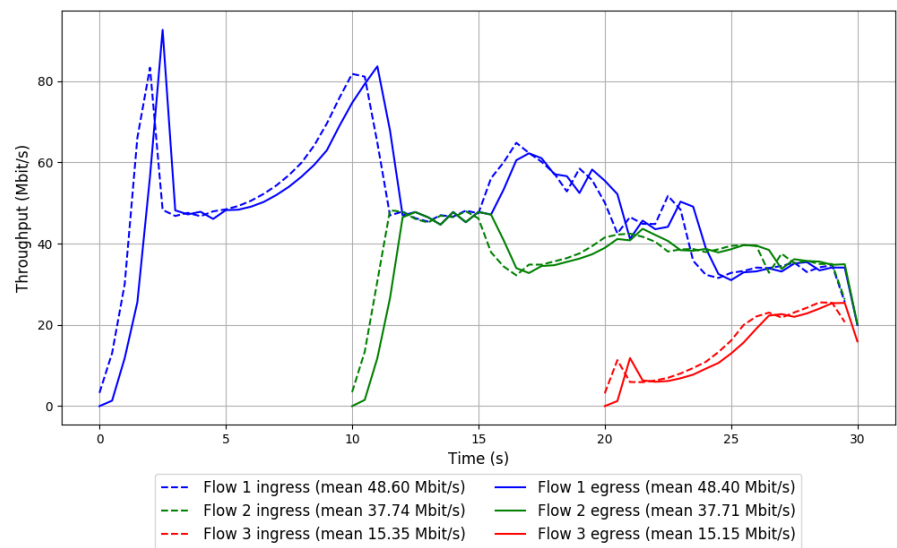


```
Run 9: Statistics of PCC-Expr

Start at: 2018-07-10 23:09:35
End at: 2018-07-10 23:10:05
Local clock offset: -1.05 ms
Remote clock offset: 6.065 ms

# Below is generated by plot.py at 2018-07-11 00:04:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.36 Mbit/s
95th percentile per-packet one-way delay: 104.180 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 48.40 Mbit/s
95th percentile per-packet one-way delay: 100.884 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 37.71 Mbit/s
95th percentile per-packet one-way delay: 105.465 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 15.15 Mbit/s
95th percentile per-packet one-way delay: 80.931 ms
Loss rate: 2.97%
```

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-10 23:30:55

End at: 2018-07-10 23:31:25

Local clock offset: -1.017 ms

Remote clock offset: 9.367 ms

Below is generated by plot.py at 2018-07-11 00:04:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.96 Mbit/s

95th percentile per-packet one-way delay: 106.601 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 53.24 Mbit/s

95th percentile per-packet one-way delay: 106.686 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 22.79 Mbit/s

95th percentile per-packet one-way delay: 101.731 ms

Loss rate: 1.21%

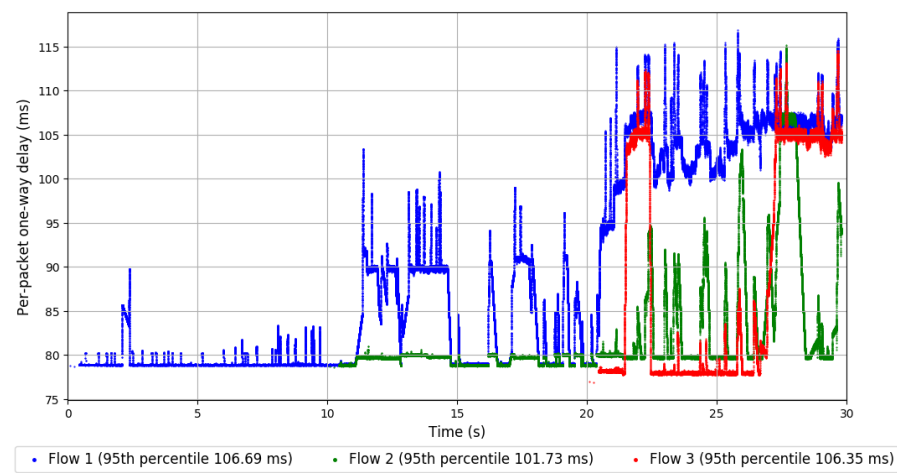
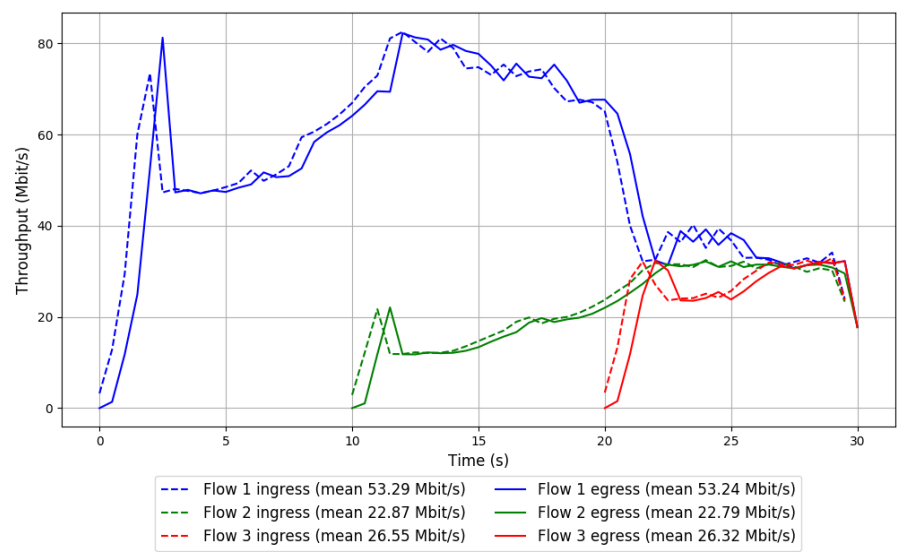
-- Flow 3:

Average throughput: 26.32 Mbit/s

95th percentile per-packet one-way delay: 106.354 ms

Loss rate: 2.57%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-07-10 20:22:15

End at: 2018-07-10 20:22:45

Local clock offset: -1.378 ms

Remote clock offset: 7.617 ms

Below is generated by plot.py at 2018-07-11 00:04:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.33 Mbit/s

95th percentile per-packet one-way delay: 91.398 ms

Loss rate: 3.15%

-- Flow 1:

Average throughput: 22.10 Mbit/s

95th percentile per-packet one-way delay: 89.803 ms

Loss rate: 3.00%

-- Flow 2:

Average throughput: 27.05 Mbit/s

95th percentile per-packet one-way delay: 94.882 ms

Loss rate: 3.54%

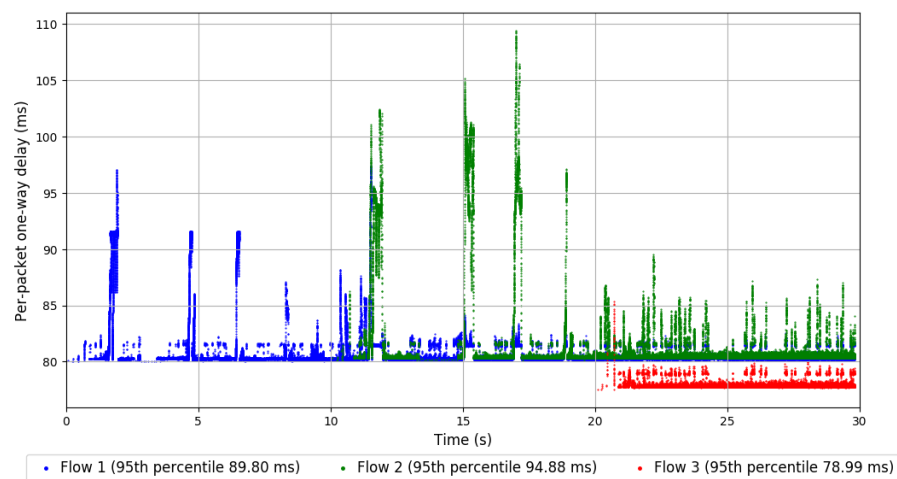
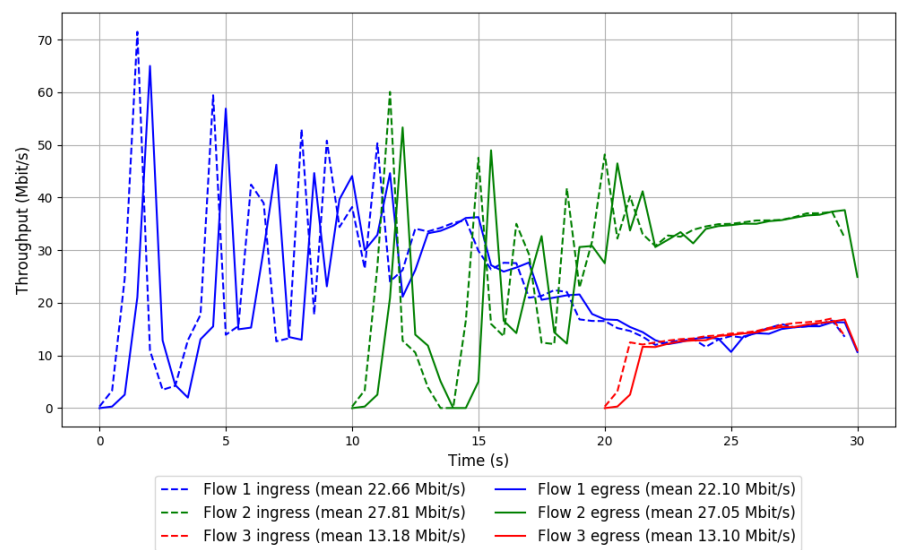
-- Flow 3:

Average throughput: 13.10 Mbit/s

95th percentile per-packet one-way delay: 78.986 ms

Loss rate: 2.30%

Run 1: Report of QUIC Cubic — Data Link

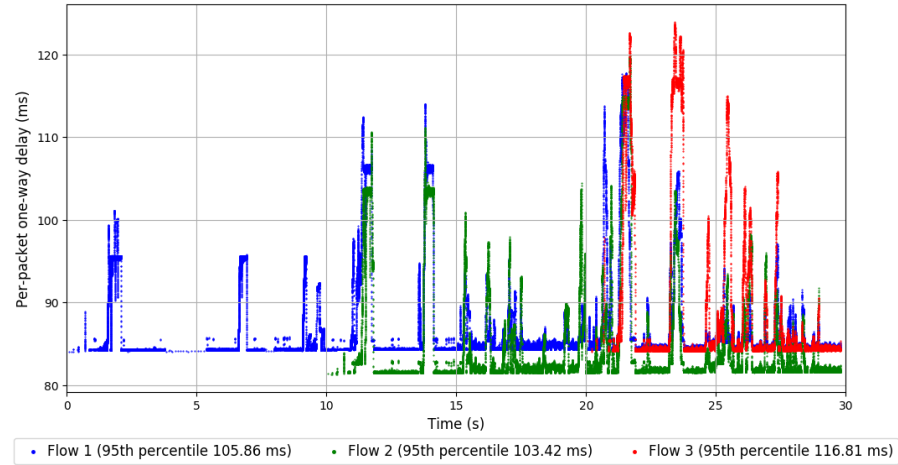
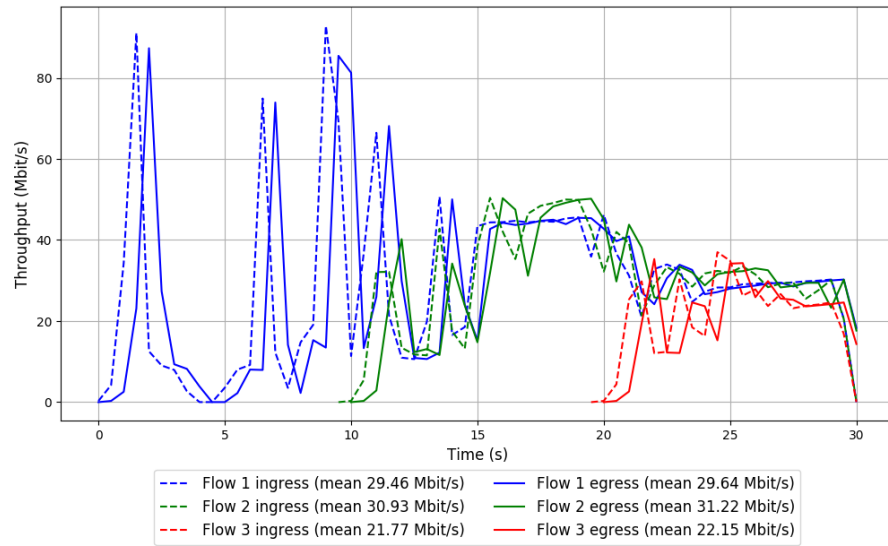


Run 2: Statistics of QUIC Cubic

Start at: 2018-07-10 20:43:24
End at: 2018-07-10 20:43:54
Local clock offset: -1.467 ms
Remote clock offset: 11.307 ms

Below is generated by plot.py at 2018-07-11 00:04:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 57.64 Mbit/s
95th percentile per-packet one-way delay: 106.013 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 29.64 Mbit/s
95th percentile per-packet one-way delay: 105.865 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 31.22 Mbit/s
95th percentile per-packet one-way delay: 103.417 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 22.15 Mbit/s
95th percentile per-packet one-way delay: 116.810 ms
Loss rate: 1.63%

Run 2: Report of QUIC Cubic — Data Link

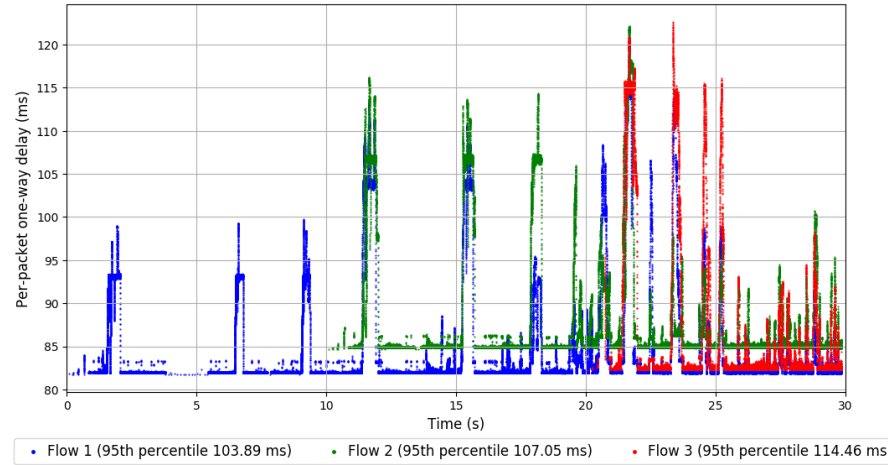
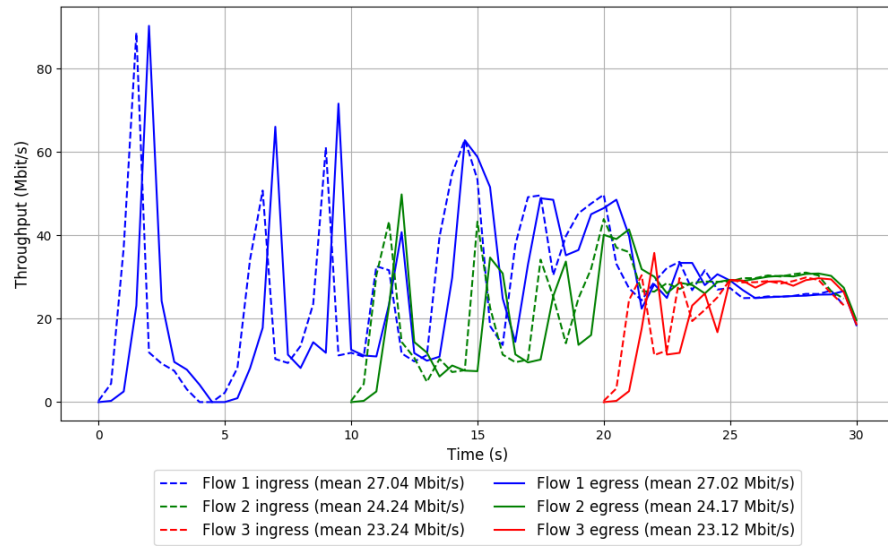


Run 3: Statistics of QUIC Cubic

Start at: 2018-07-10 21:04:32
End at: 2018-07-10 21:05:02
Local clock offset: -1.452 ms
Remote clock offset: 11.262 ms

Below is generated by plot.py at 2018-07-11 00:04:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 50.63 Mbit/s
95th percentile per-packet one-way delay: 106.910 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 27.02 Mbit/s
95th percentile per-packet one-way delay: 103.891 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 24.17 Mbit/s
95th percentile per-packet one-way delay: 107.047 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 23.12 Mbit/s
95th percentile per-packet one-way delay: 114.463 ms
Loss rate: 2.14%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-07-10 21:25:44

End at: 2018-07-10 21:26:14

Local clock offset: -1.472 ms

Remote clock offset: 14.25 ms

Below is generated by plot.py at 2018-07-11 00:04:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.04 Mbit/s

95th percentile per-packet one-way delay: 104.759 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 28.16 Mbit/s

95th percentile per-packet one-way delay: 102.462 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 21.64 Mbit/s

95th percentile per-packet one-way delay: 101.164 ms

Loss rate: 1.21%

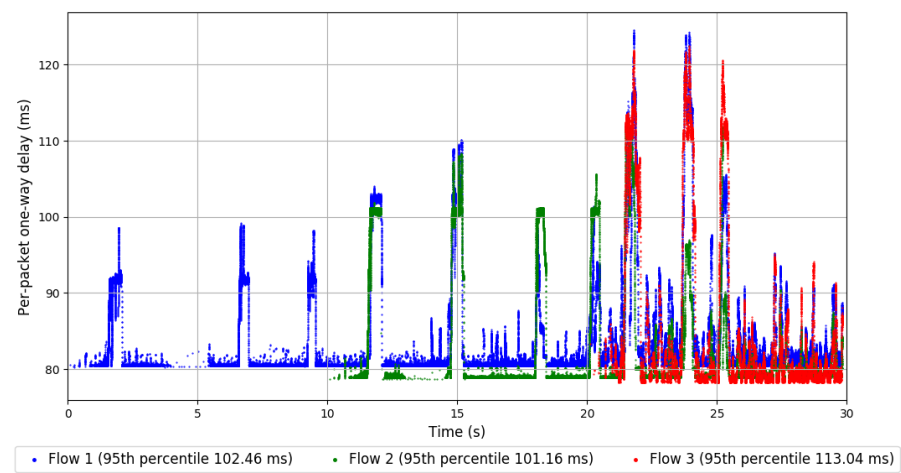
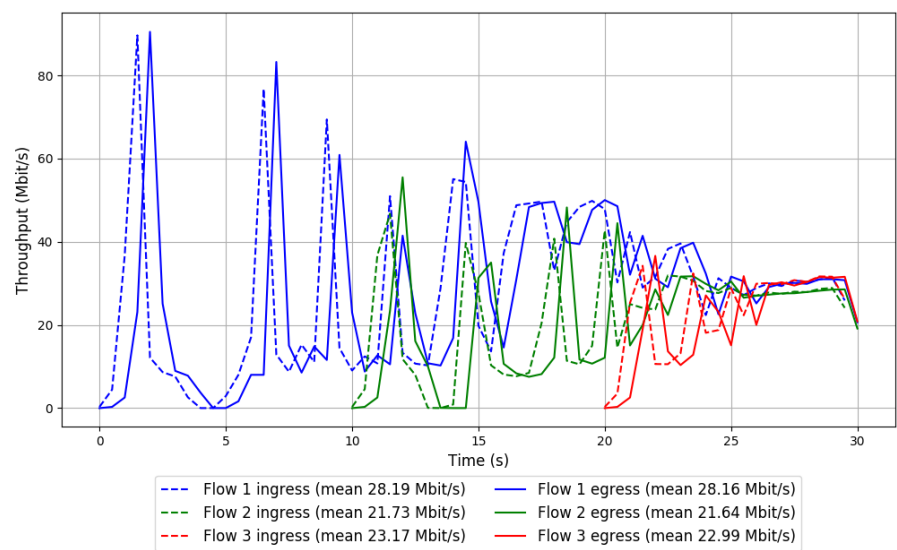
-- Flow 3:

Average throughput: 22.99 Mbit/s

95th percentile per-packet one-way delay: 113.041 ms

Loss rate: 2.43%

Run 4: Report of QUIC Cubic — Data Link

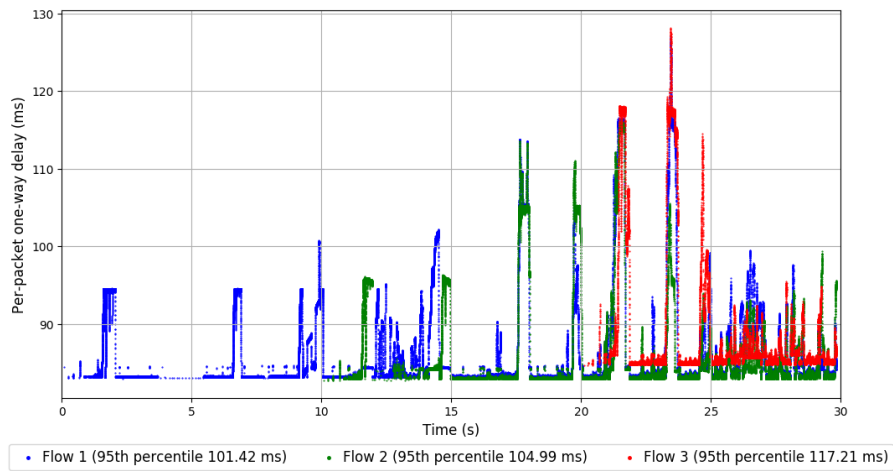
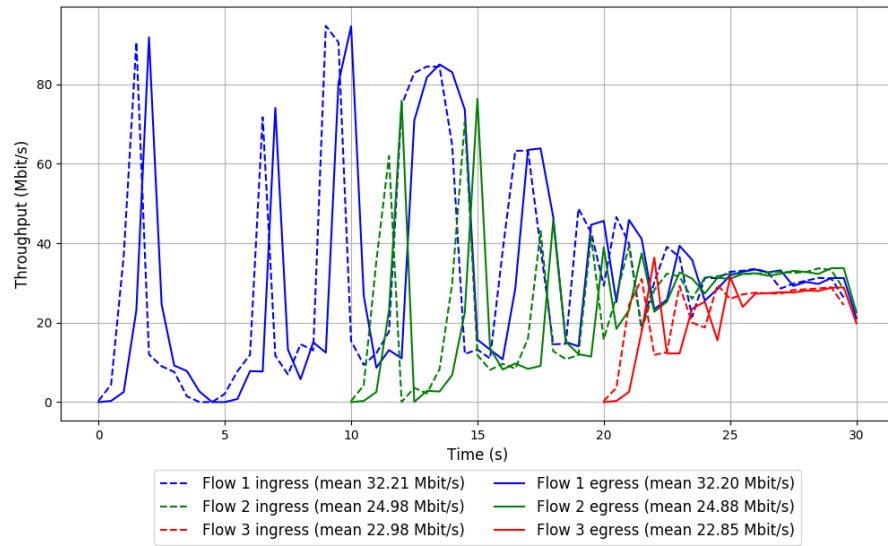


Run 5: Statistics of QUIC Cubic

Start at: 2018-07-10 21:46:53
End at: 2018-07-10 21:47:23
Local clock offset: -1.347 ms
Remote clock offset: 10.688 ms

Below is generated by plot.py at 2018-07-11 00:04:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 56.19 Mbit/s
95th percentile per-packet one-way delay: 105.067 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 32.20 Mbit/s
95th percentile per-packet one-way delay: 101.421 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 24.88 Mbit/s
95th percentile per-packet one-way delay: 104.991 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 22.85 Mbit/s
95th percentile per-packet one-way delay: 117.209 ms
Loss rate: 2.25%

Run 5: Report of QUIC Cubic — Data Link

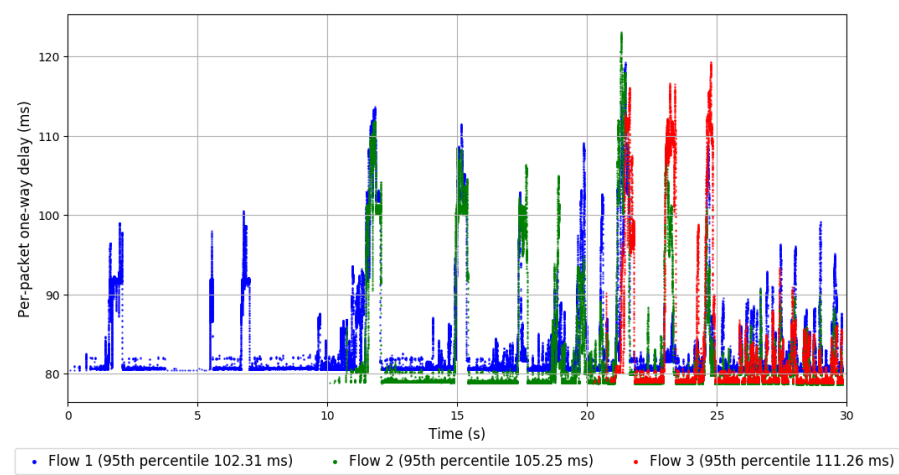
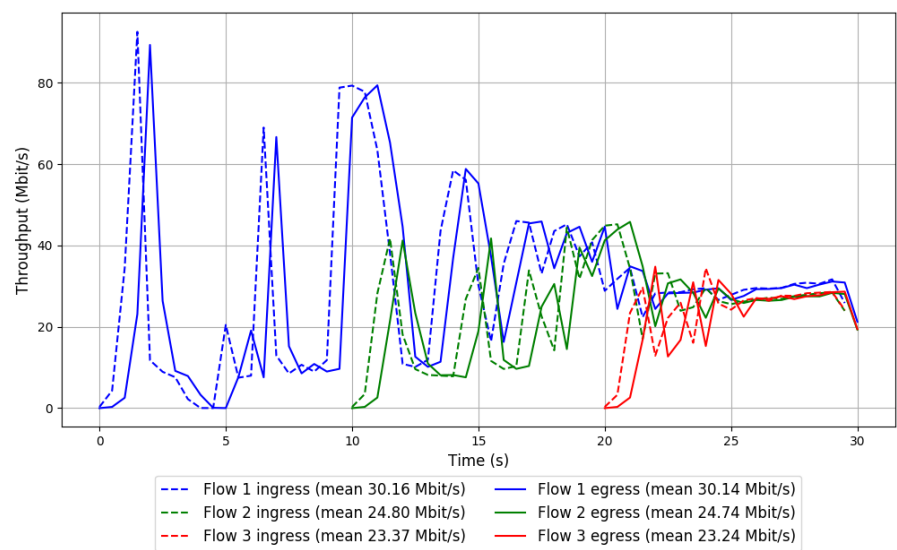


Run 6: Statistics of QUIC Cubic

Start at: 2018-07-10 22:08:09
End at: 2018-07-10 22:08:39
Local clock offset: -1.169 ms
Remote clock offset: 14.999 ms

Below is generated by plot.py at 2018-07-11 00:04:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 54.15 Mbit/s
95th percentile per-packet one-way delay: 103.913 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 30.14 Mbit/s
95th percentile per-packet one-way delay: 102.307 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 24.74 Mbit/s
95th percentile per-packet one-way delay: 105.251 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 23.24 Mbit/s
95th percentile per-packet one-way delay: 111.258 ms
Loss rate: 2.21%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-10 22:29:23

End at: 2018-07-10 22:29:53

Local clock offset: -1.071 ms

Remote clock offset: 3.521 ms

Below is generated by plot.py at 2018-07-11 00:04:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.79 Mbit/s

95th percentile per-packet one-way delay: 106.961 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 30.57 Mbit/s

95th percentile per-packet one-way delay: 105.676 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 22.58 Mbit/s

95th percentile per-packet one-way delay: 106.911 ms

Loss rate: 1.10%

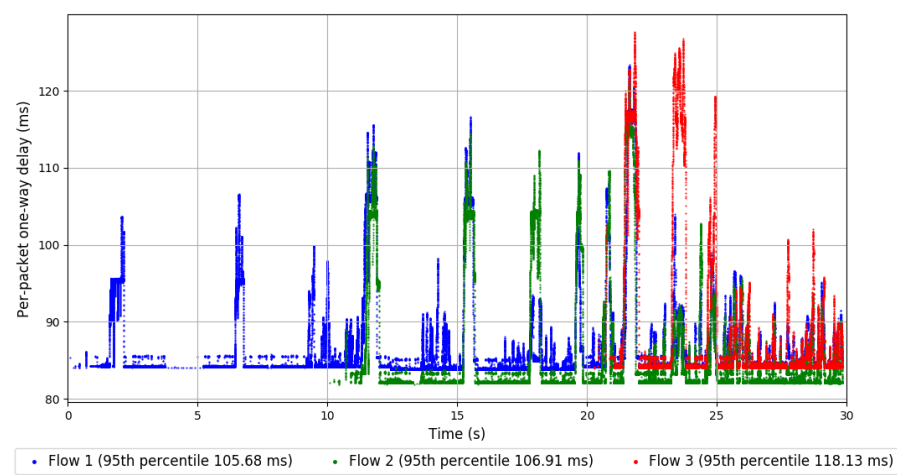
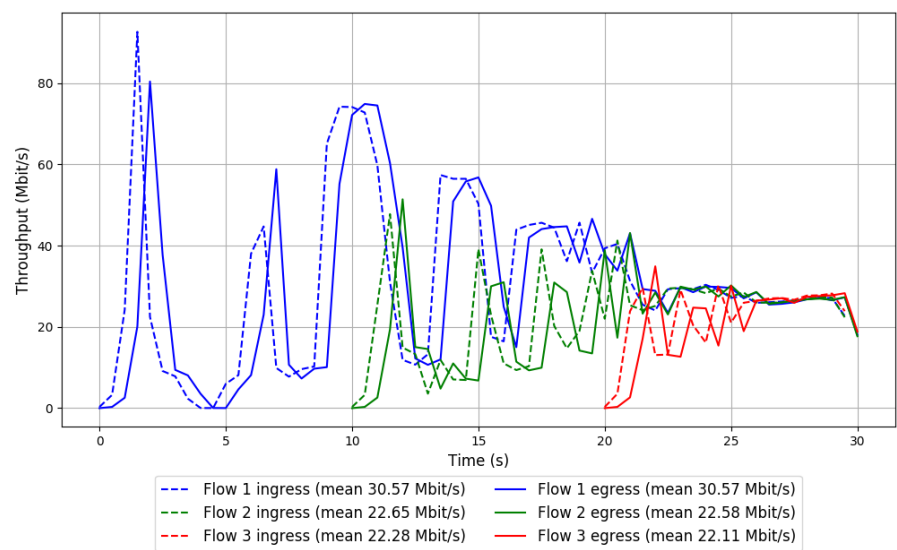
-- Flow 3:

Average throughput: 22.11 Mbit/s

95th percentile per-packet one-way delay: 118.134 ms

Loss rate: 2.41%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-10 22:50:41

End at: 2018-07-10 22:51:11

Local clock offset: -1.025 ms

Remote clock offset: 6.573 ms

Below is generated by plot.py at 2018-07-11 00:04:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.05 Mbit/s

95th percentile per-packet one-way delay: 101.838 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 28.00 Mbit/s

95th percentile per-packet one-way delay: 98.613 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 23.55 Mbit/s

95th percentile per-packet one-way delay: 101.828 ms

Loss rate: 1.07%

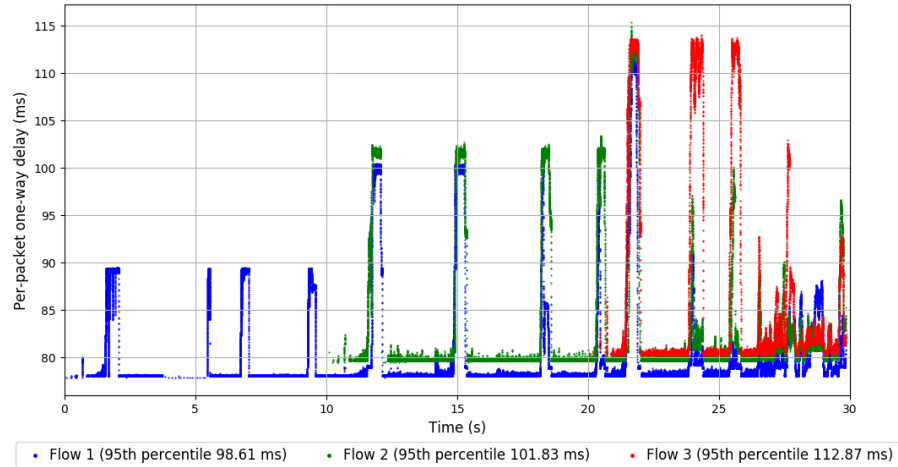
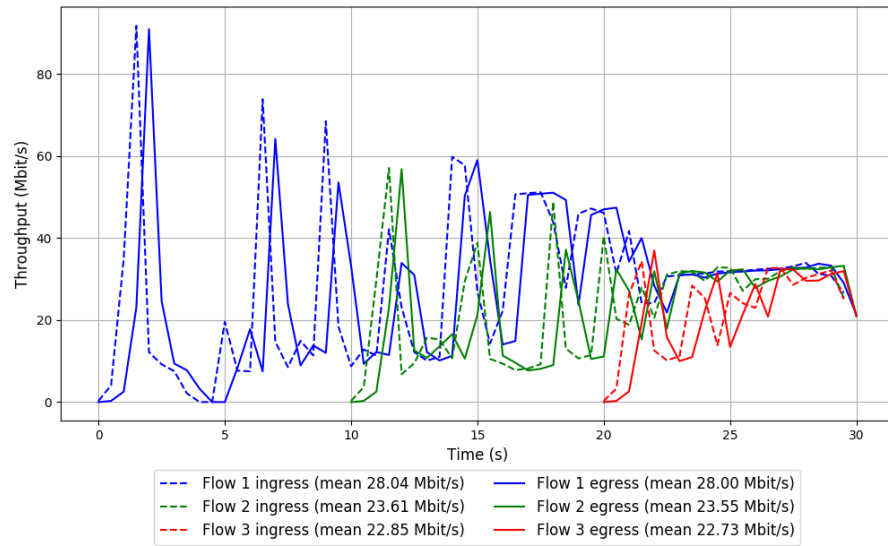
-- Flow 3:

Average throughput: 22.73 Mbit/s

95th percentile per-packet one-way delay: 112.870 ms

Loss rate: 2.20%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-10 23:12:09

End at: 2018-07-10 23:12:39

Local clock offset: -1.032 ms

Remote clock offset: 1.118 ms

Below is generated by plot.py at 2018-07-11 00:04:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.08 Mbit/s

95th percentile per-packet one-way delay: 106.239 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 31.27 Mbit/s

95th percentile per-packet one-way delay: 105.516 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 24.47 Mbit/s

95th percentile per-packet one-way delay: 104.027 ms

Loss rate: 1.02%

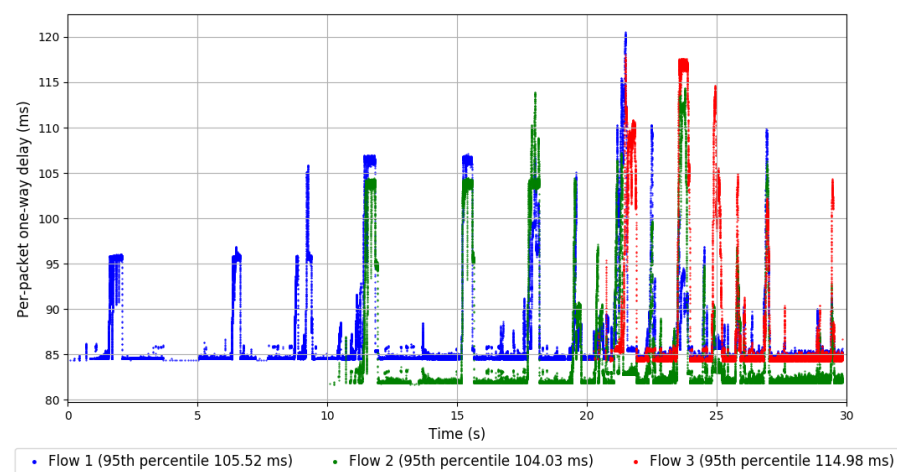
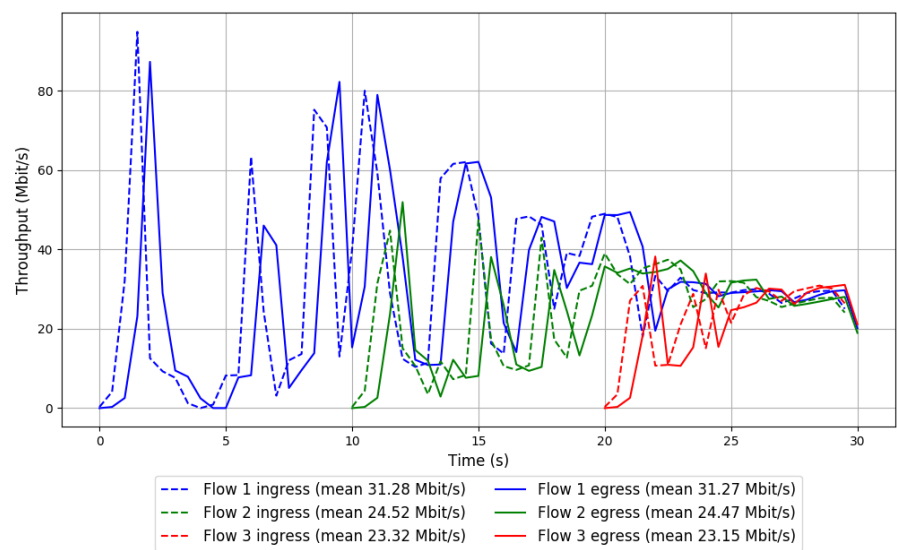
-- Flow 3:

Average throughput: 23.15 Mbit/s

95th percentile per-packet one-way delay: 114.980 ms

Loss rate: 2.40%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-10 23:33:27

End at: 2018-07-10 23:33:57

Local clock offset: -1.002 ms

Remote clock offset: 3.434 ms

Below is generated by plot.py at 2018-07-11 00:04:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.24 Mbit/s

95th percentile per-packet one-way delay: 105.876 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 30.49 Mbit/s

95th percentile per-packet one-way delay: 102.422 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 23.68 Mbit/s

95th percentile per-packet one-way delay: 106.796 ms

Loss rate: 1.09%

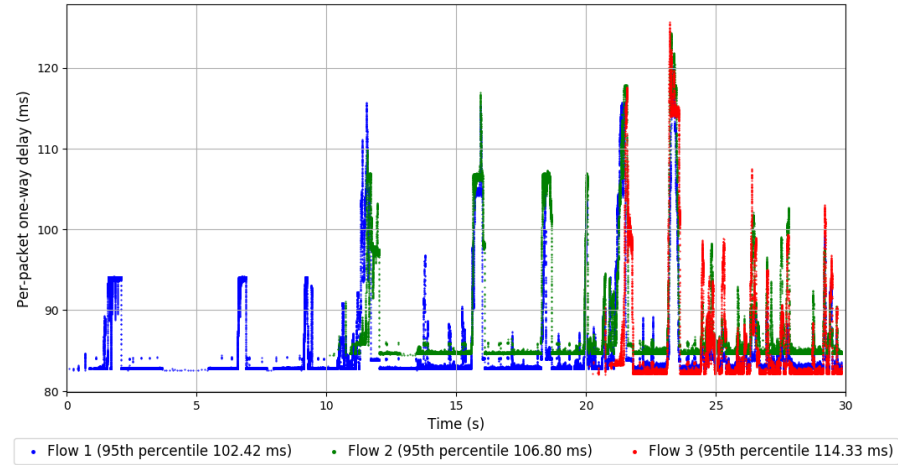
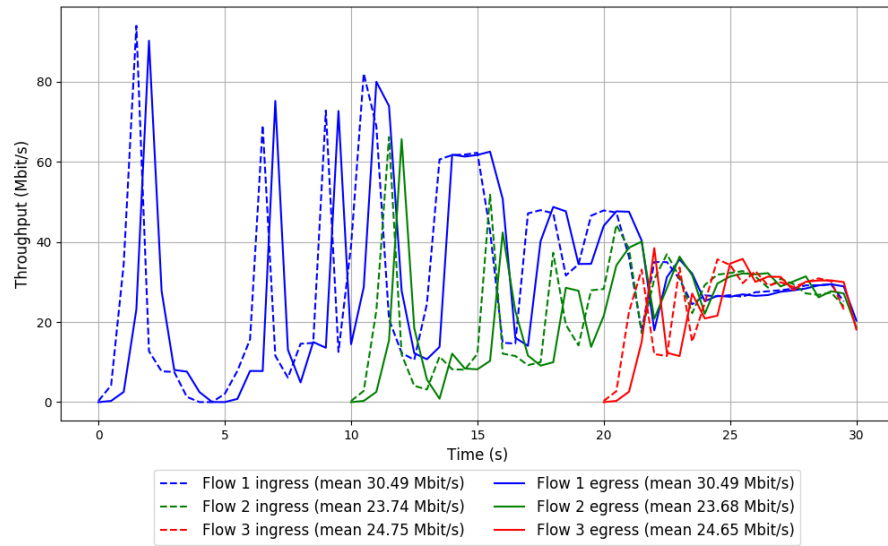
-- Flow 3:

Average throughput: 24.65 Mbit/s

95th percentile per-packet one-way delay: 114.332 ms

Loss rate: 2.11%

Run 10: Report of QUIC Cubic — Data Link

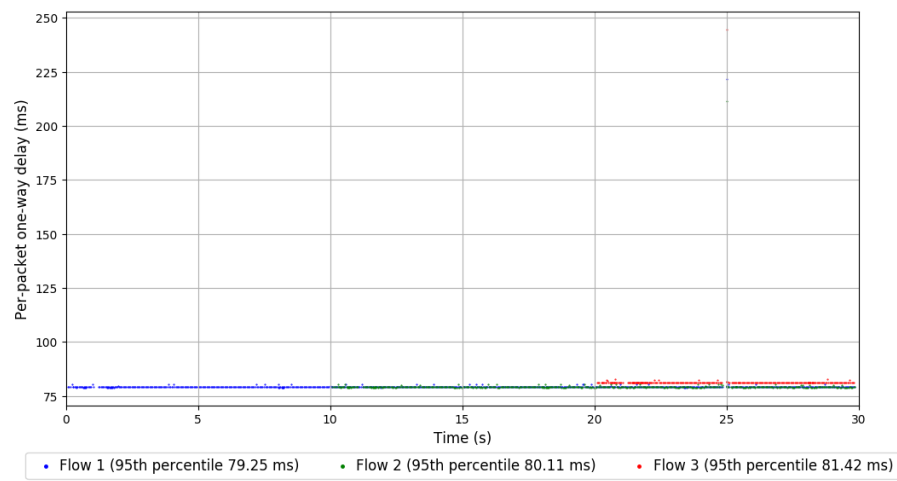
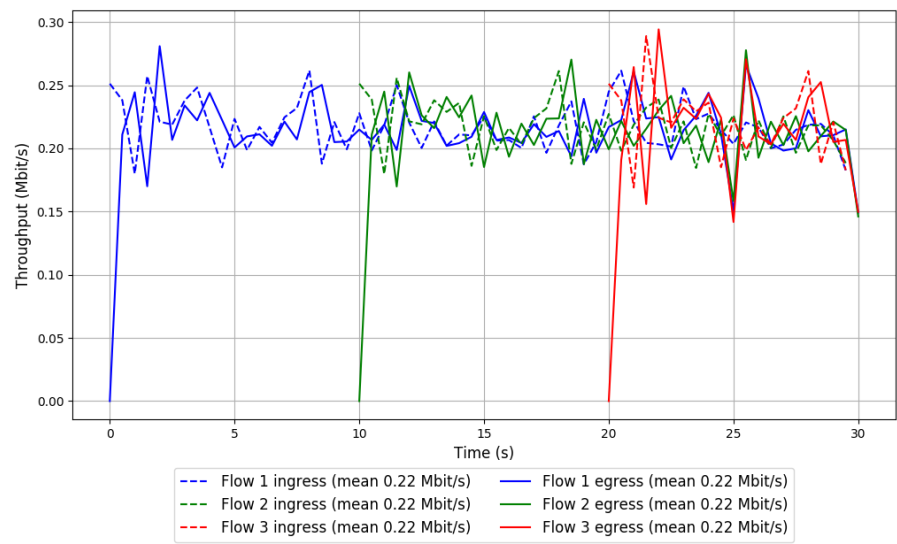


```
Run 1: Statistics of SReAM

Start at: 2018-07-10 20:18:33
End at: 2018-07-10 20:19:03
Local clock offset: -1.329 ms
Remote clock offset: 6.625 ms

# Below is generated by plot.py at 2018-07-11 00:04:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 81.277 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.251 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.111 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.416 ms
Loss rate: 1.83%
```

Run 1: Report of SReAM — Data Link

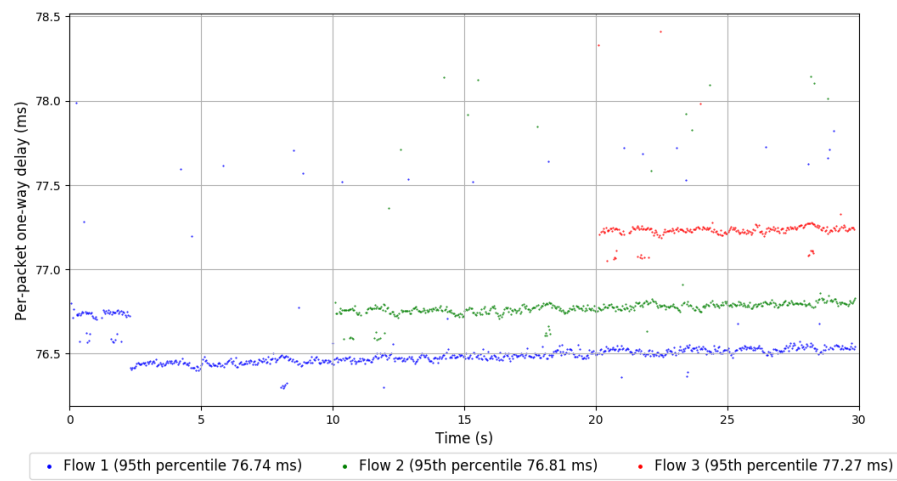
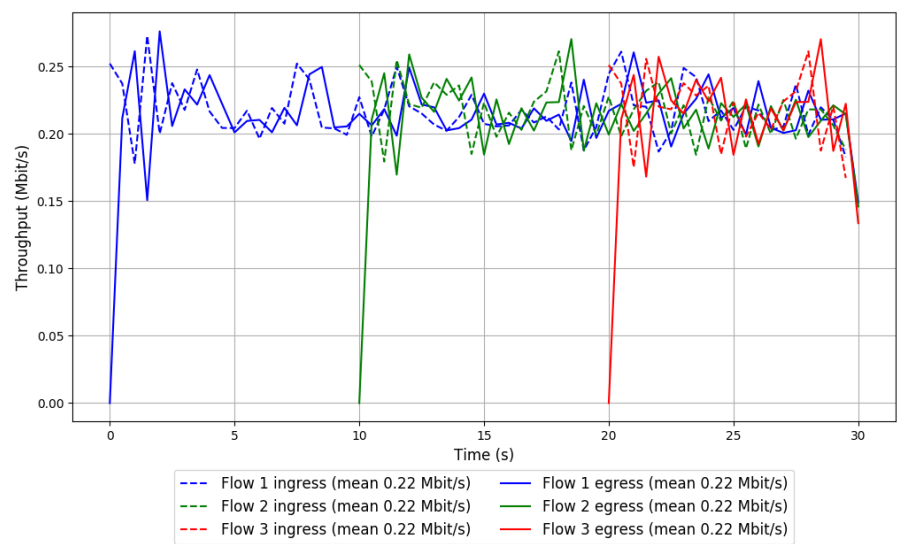


Run 2: Statistics of SReAM

Start at: 2018-07-10 20:39:40
End at: 2018-07-10 20:40:10
Local clock offset: -1.458 ms
Remote clock offset: 15.473 ms

Below is generated by plot.py at 2018-07-11 00:04:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 77.248 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 76.744 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 76.815 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 77.265 ms
Loss rate: 1.50%

Run 2: Report of SReAM — Data Link

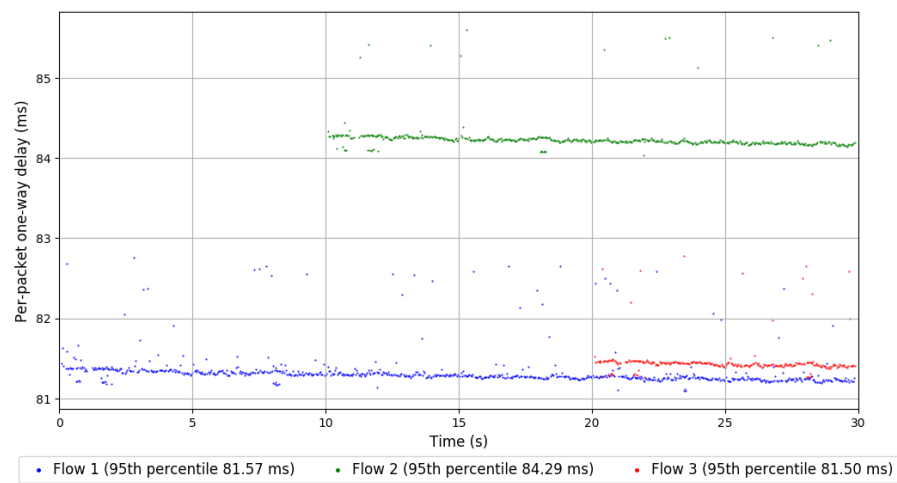
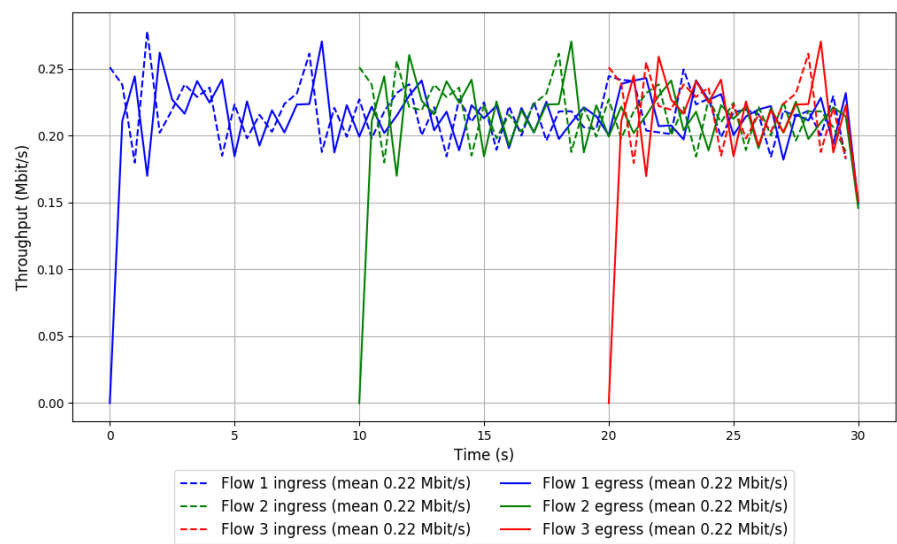


Run 3: Statistics of SReAM

Start at: 2018-07-10 21:00:50
End at: 2018-07-10 21:01:20
Local clock offset: -1.453 ms
Remote clock offset: 13.105 ms

Below is generated by plot.py at 2018-07-11 00:04:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 84.267 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.572 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.289 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.496 ms
Loss rate: 1.45%

Run 3: Report of SReAM — Data Link

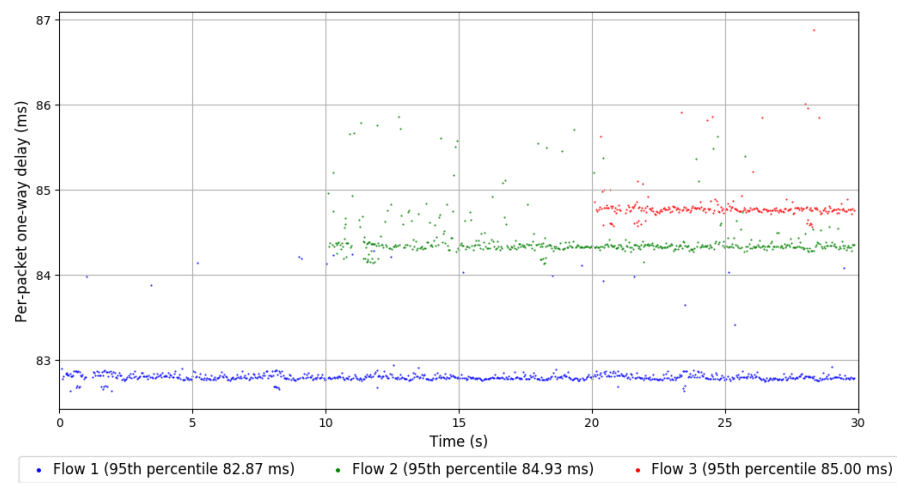
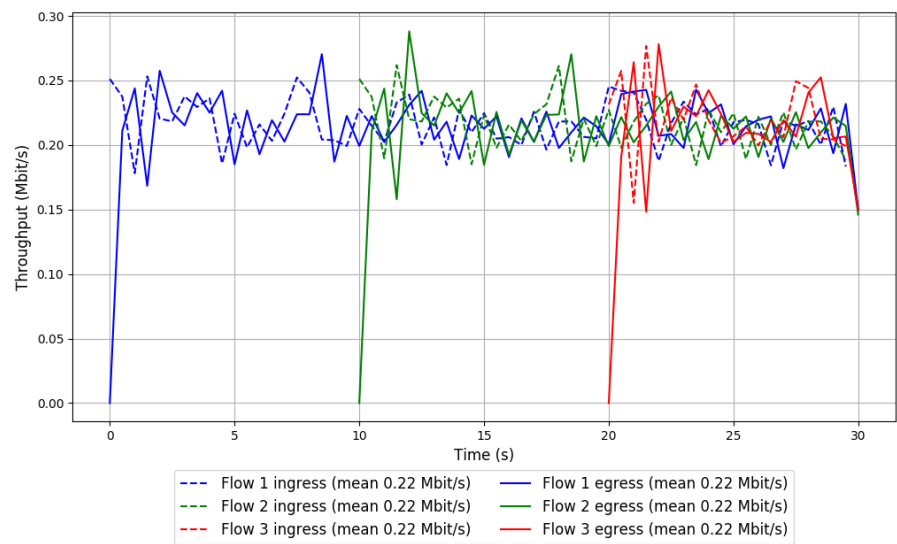


Run 4: Statistics of SReAM

Start at: 2018-07-10 21:22:00
End at: 2018-07-10 21:22:30
Local clock offset: -1.465 ms
Remote clock offset: 10.171 ms

Below is generated by plot.py at 2018-07-11 00:04:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 84.800 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.872 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.926 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.998 ms
Loss rate: 1.84%

Run 4: Report of SReAM — Data Link

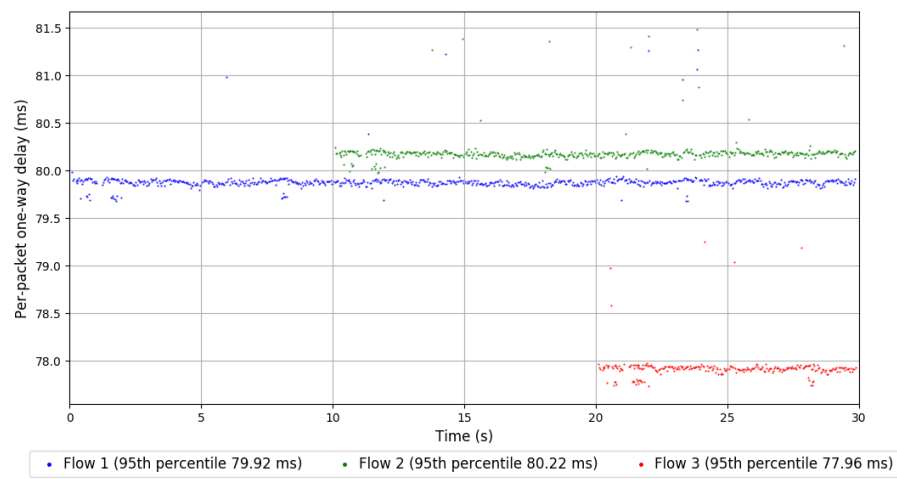
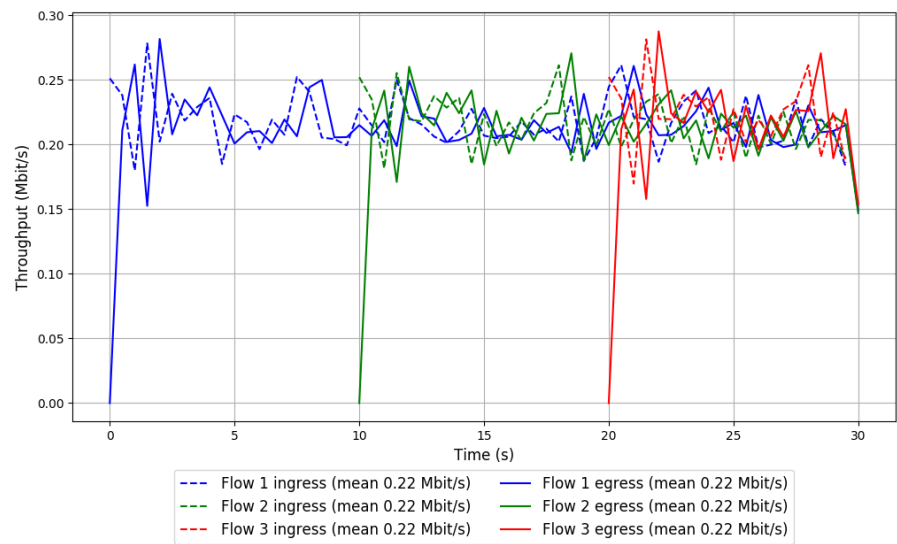


Run 5: Statistics of SReAM

Start at: 2018-07-10 21:43:10
End at: 2018-07-10 21:43:40
Local clock offset: -1.384 ms
Remote clock offset: 15.711 ms

Below is generated by plot.py at 2018-07-11 00:04:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 80.203 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.915 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.218 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 77.963 ms
Loss rate: 1.46%

Run 5: Report of SReAM — Data Link

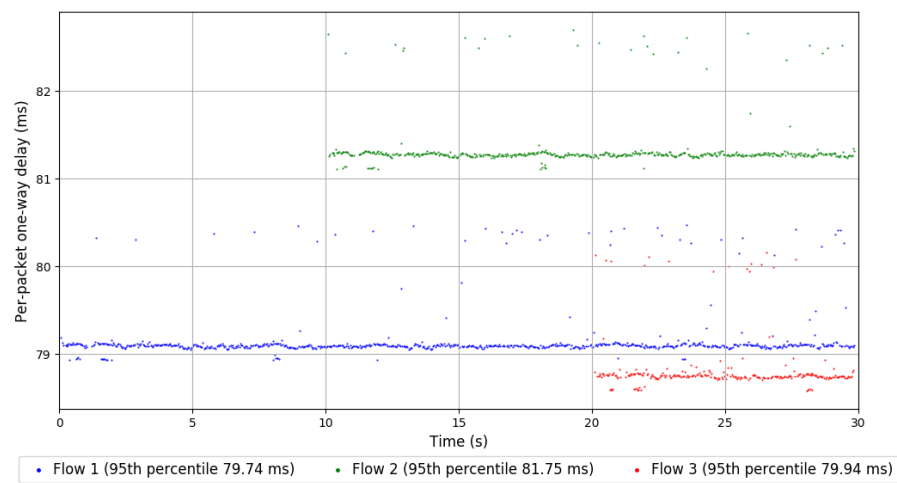
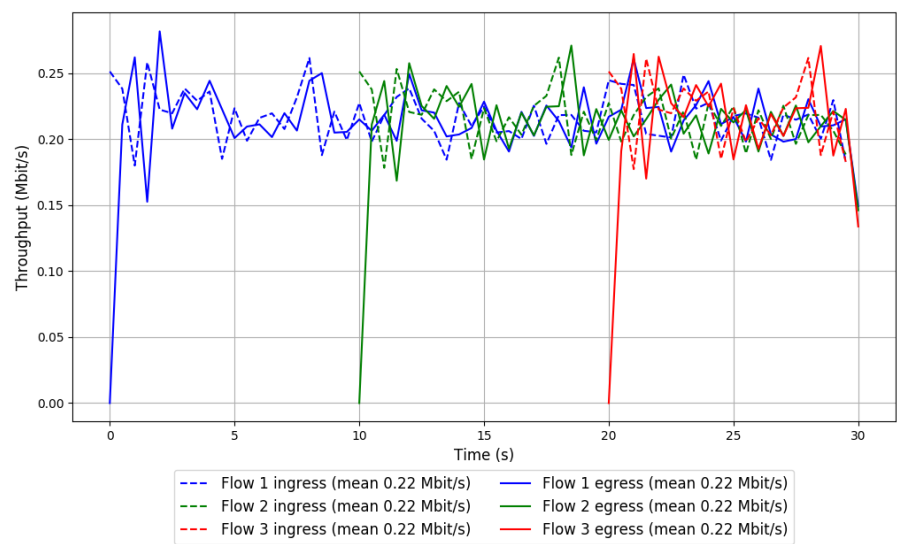


Run 6: Statistics of SReAM

Start at: 2018-07-10 22:04:26
End at: 2018-07-10 22:04:56
Local clock offset: -1.2 ms
Remote clock offset: 15.053 ms

Below is generated by plot.py at 2018-07-11 00:04:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 81.300 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.743 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.751 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.942 ms
Loss rate: 1.84%

Run 6: Report of SCReAM — Data Link

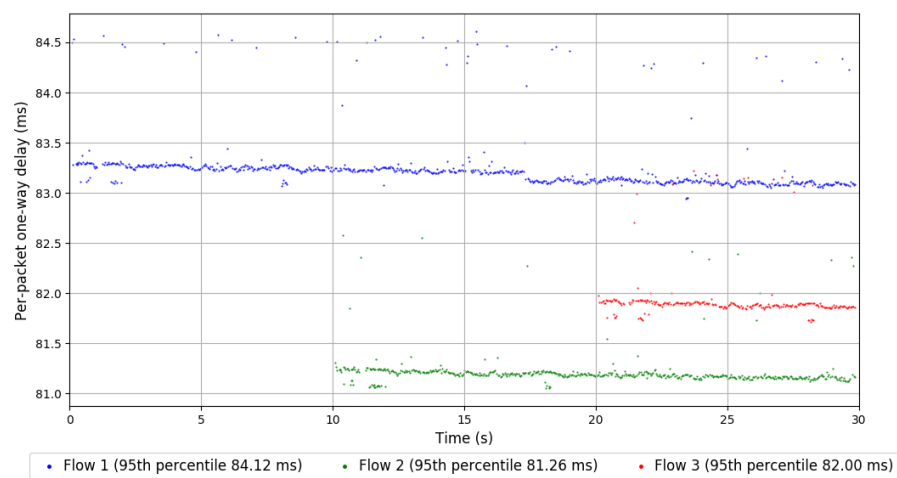
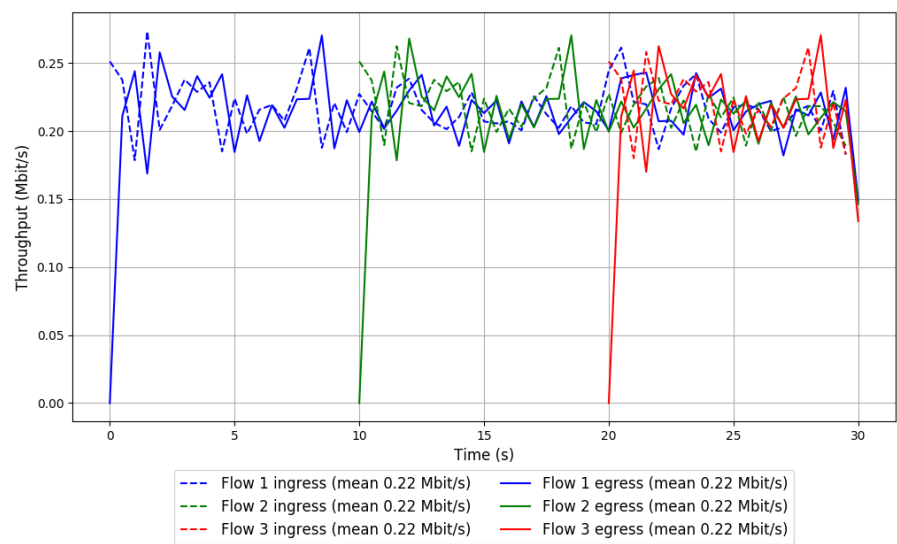


Run 7: Statistics of SReAM

Start at: 2018-07-10 22:25:40
End at: 2018-07-10 22:26:10
Local clock offset: -1.145 ms
Remote clock offset: 4.298 ms

Below is generated by plot.py at 2018-07-11 00:04:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 83.288 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.117 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.259 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.001 ms
Loss rate: 1.84%

Run 7: Report of SReAM — Data Link

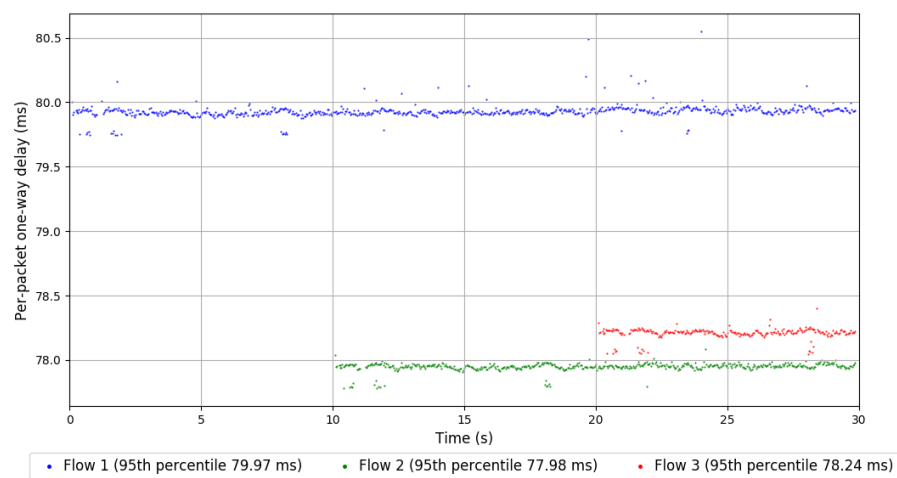
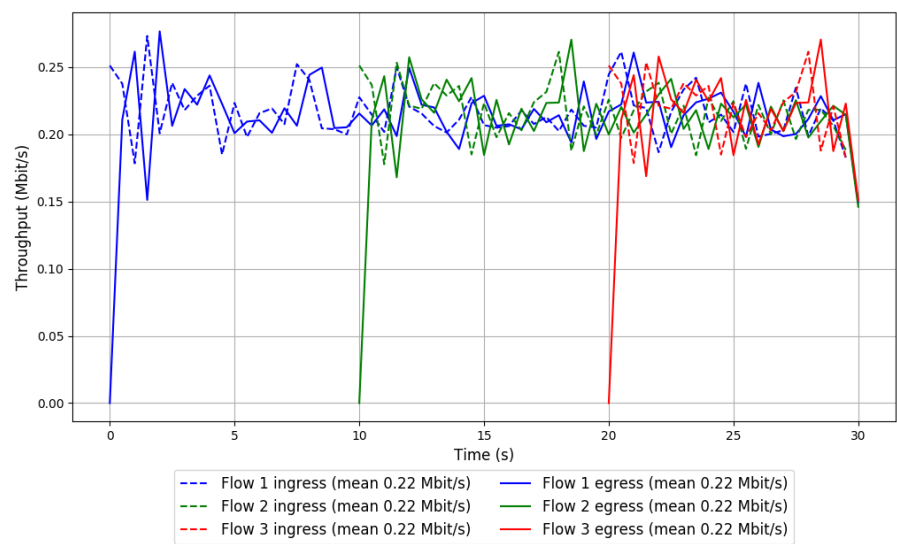


Run 8: Statistics of SReAM

Start at: 2018-07-10 22:46:57
End at: 2018-07-10 22:47:27
Local clock offset: -1.041 ms
Remote clock offset: 6.452 ms

Below is generated by plot.py at 2018-07-11 00:04:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 79.958 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.971 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 77.978 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.243 ms
Loss rate: 1.45%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-07-10 23:08:24

End at: 2018-07-10 23:08:54

Local clock offset: -0.98 ms

Remote clock offset: 7.369 ms

Below is generated by plot.py at 2018-07-11 00:04:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 80.191 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 81.663 ms

Loss rate: 2.23%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 76.882 ms

Loss rate: 0.82%

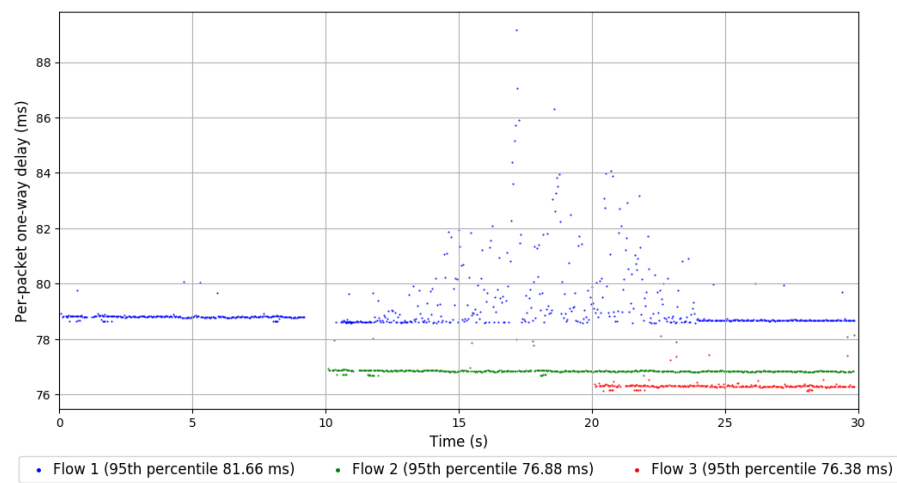
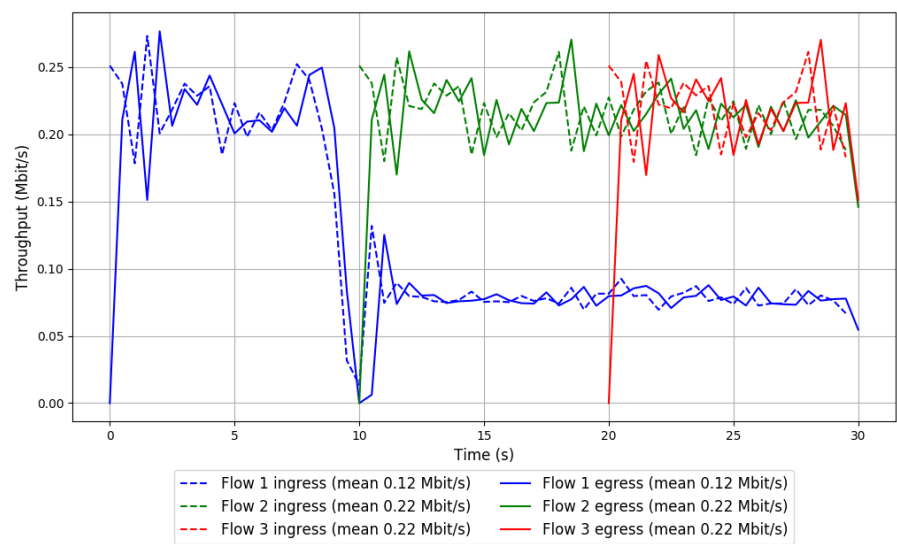
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 76.384 ms

Loss rate: 1.45%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-07-10 23:29:44

End at: 2018-07-10 23:30:14

Local clock offset: -0.96 ms

Remote clock offset: 8.222 ms

Below is generated by plot.py at 2018-07-11 00:04:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 79.716 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 78.128 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.985 ms

Loss rate: 0.82%

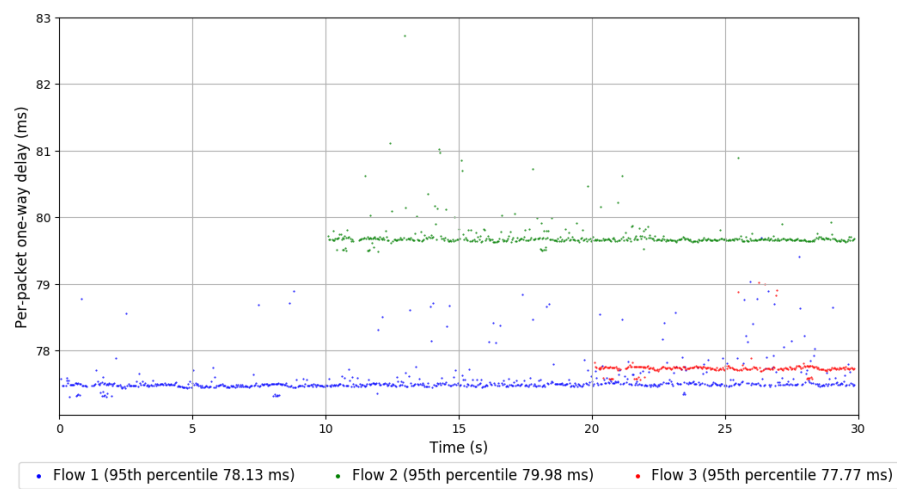
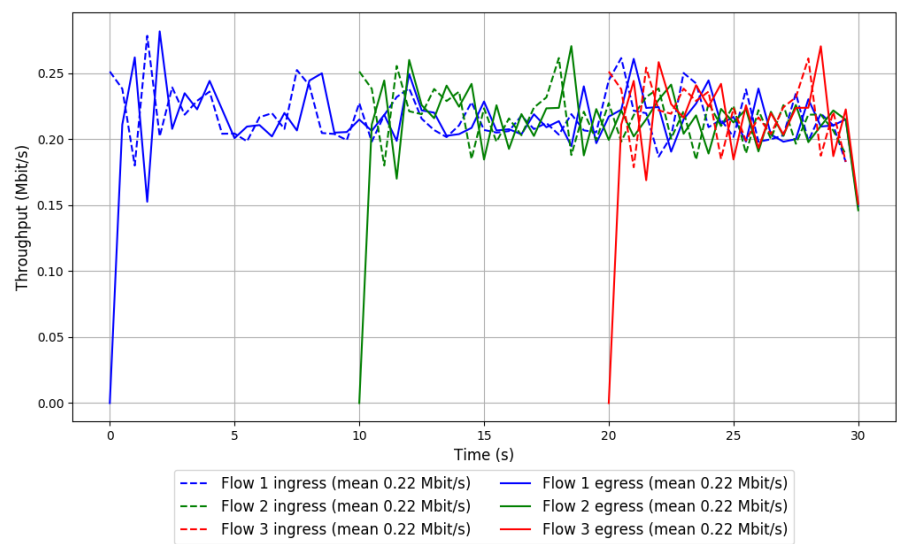
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 77.769 ms

Loss rate: 1.45%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-07-10 20:27:09

End at: 2018-07-10 20:27:39

Local clock offset: -1.311 ms

Remote clock offset: 9.513 ms

Below is generated by plot.py at 2018-07-11 00:04:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.04 Mbit/s

95th percentile per-packet one-way delay: 79.670 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 80.174 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 0.73 Mbit/s

95th percentile per-packet one-way delay: 78.519 ms

Loss rate: 0.02%

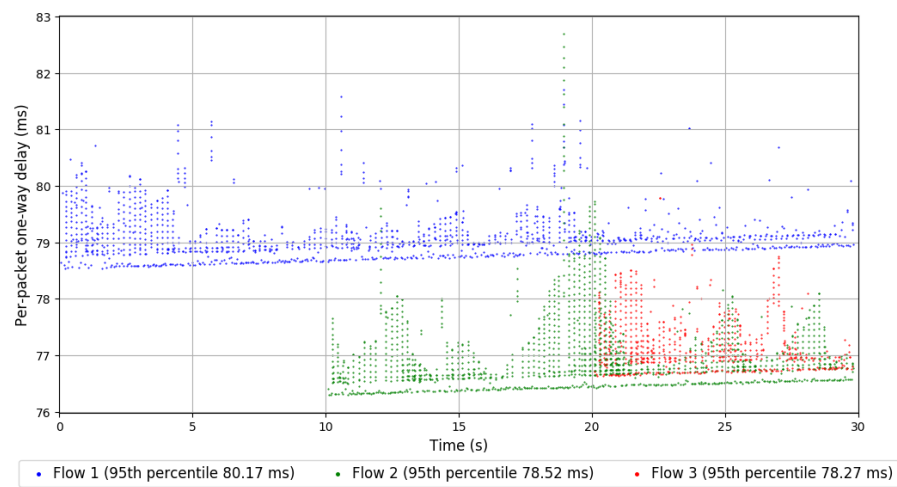
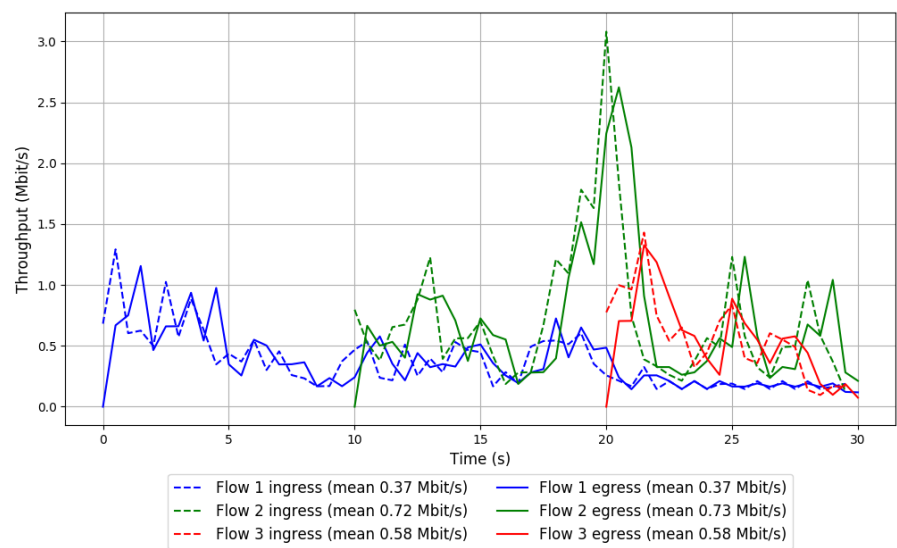
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 78.270 ms

Loss rate: 0.82%

Run 1: Report of Sprout — Data Link

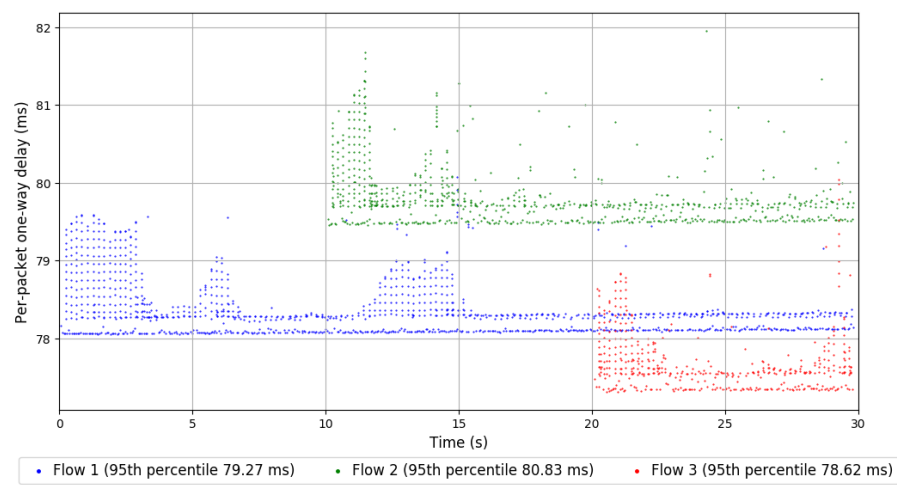
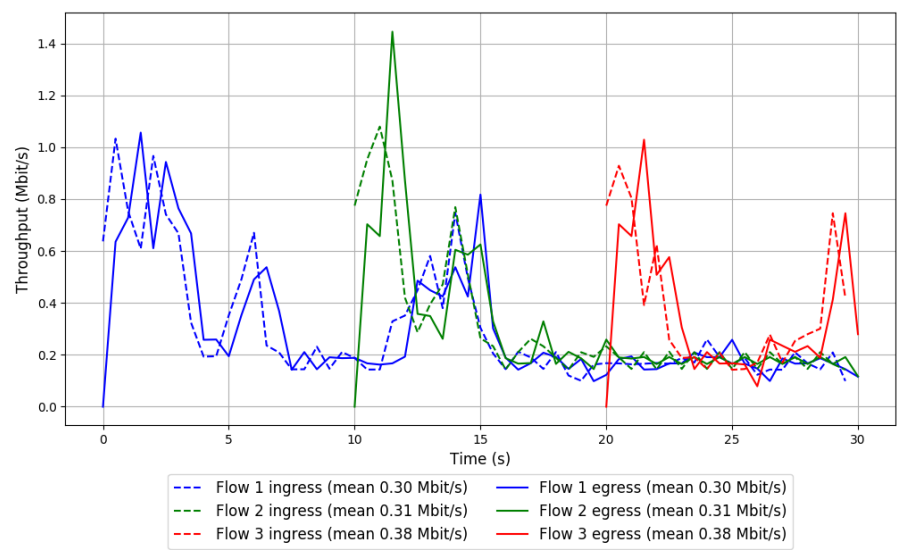


Run 2: Statistics of Sprout

Start at: 2018-07-10 20:48:21
End at: 2018-07-10 20:48:51
Local clock offset: -1.425 ms
Remote clock offset: 16.014 ms

Below is generated by plot.py at 2018-07-11 00:04:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 80.179 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 79.274 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 80.826 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 78.623 ms
Loss rate: 1.90%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-07-10 21:09:28

End at: 2018-07-10 21:09:58

Local clock offset: -1.45 ms

Remote clock offset: 10.67 ms

Below is generated by plot.py at 2018-07-11 00:04:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 85.407 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 85.733 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 84.320 ms

Loss rate: 0.03%

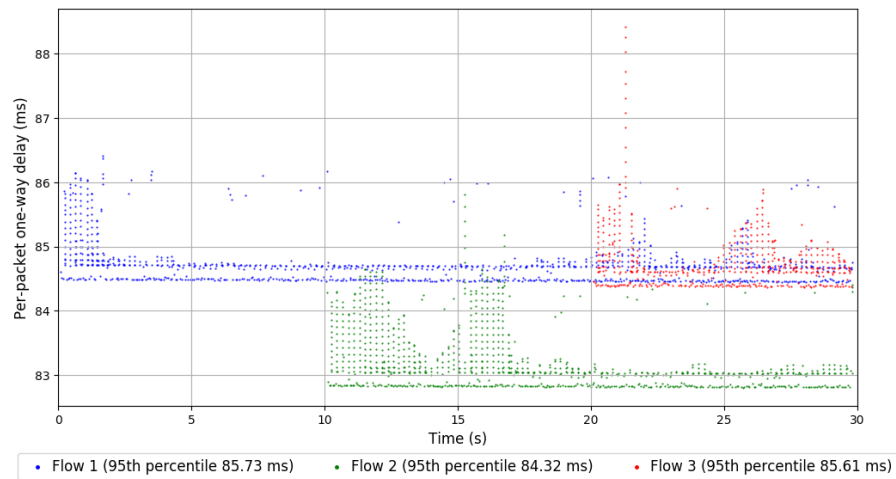
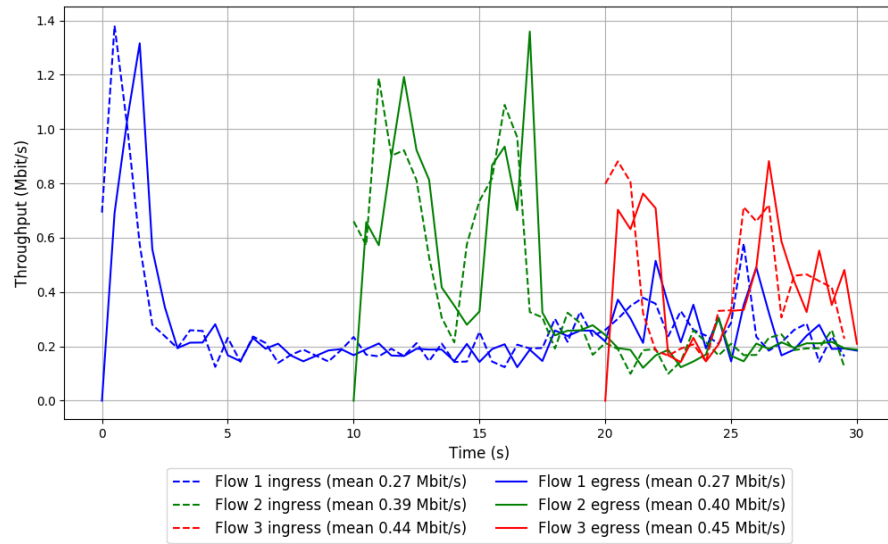
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 85.607 ms

Loss rate: 1.03%

Run 3: Report of Sprout — Data Link

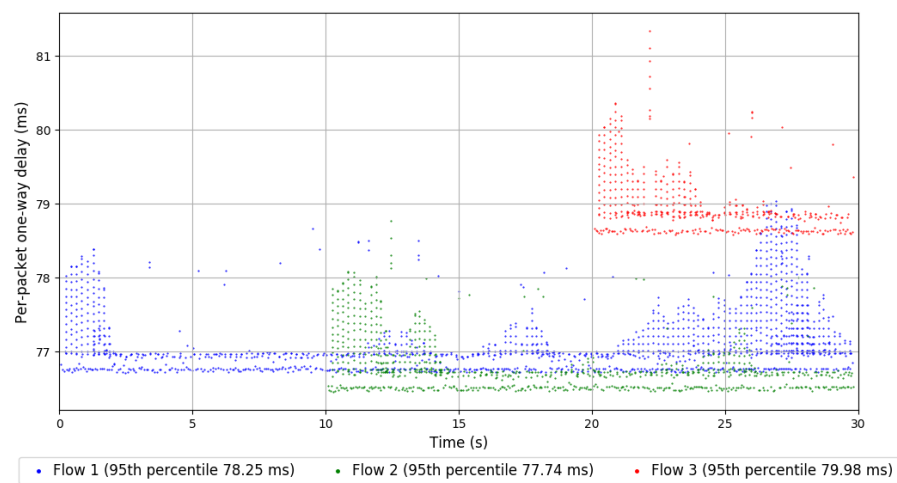
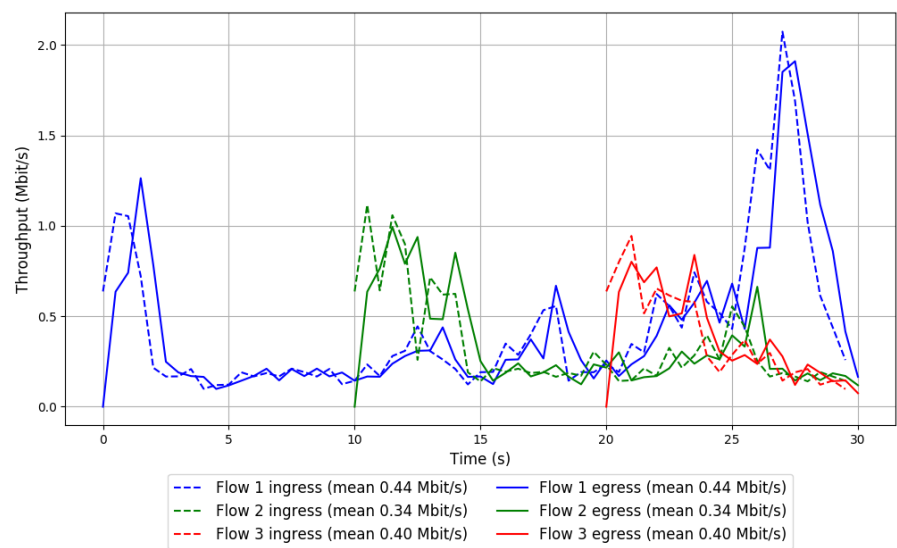


Run 4: Statistics of Sprout

Start at: 2018-07-10 21:30:40
End at: 2018-07-10 21:31:10
Local clock offset: -1.435 ms
Remote clock offset: 16.547 ms

```
# Below is generated by plot.py at 2018-07-11 00:04:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.80 Mbit/s
95th percentile per-packet one-way delay: 79.008 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 78.255 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 77.740 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 79.983 ms
Loss rate: 0.31%
```

Run 4: Report of Sprout — Data Link

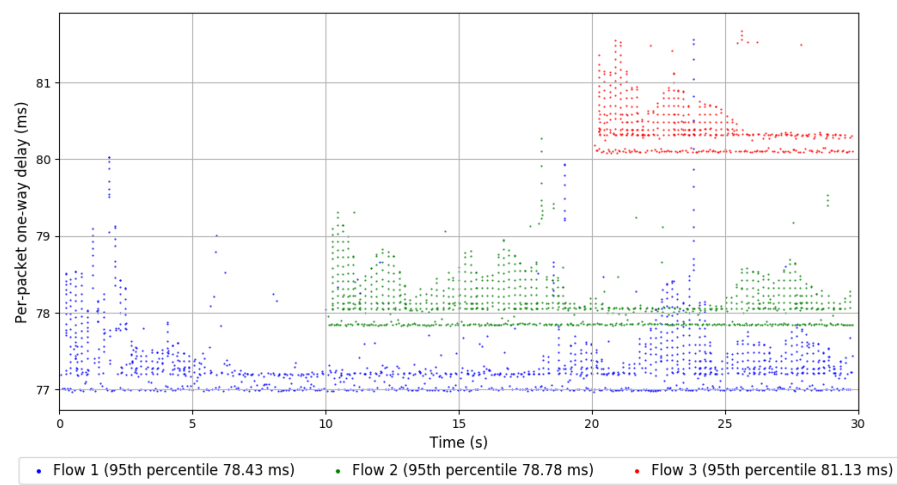
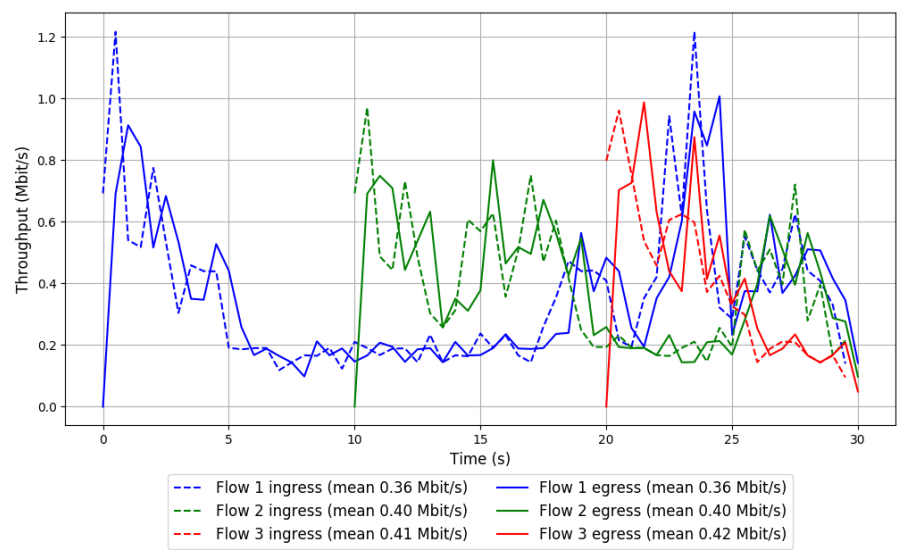


Run 5: Statistics of Sprout

Start at: 2018-07-10 21:51:49
End at: 2018-07-10 21:52:19
Local clock offset: -1.303 ms
Remote clock offset: 15.806 ms

Below is generated by plot.py at 2018-07-11 00:04:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.77 Mbit/s
95th percentile per-packet one-way delay: 80.513 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 78.426 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 78.777 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 81.133 ms
Loss rate: 0.59%

Run 5: Report of Sprout — Data Link

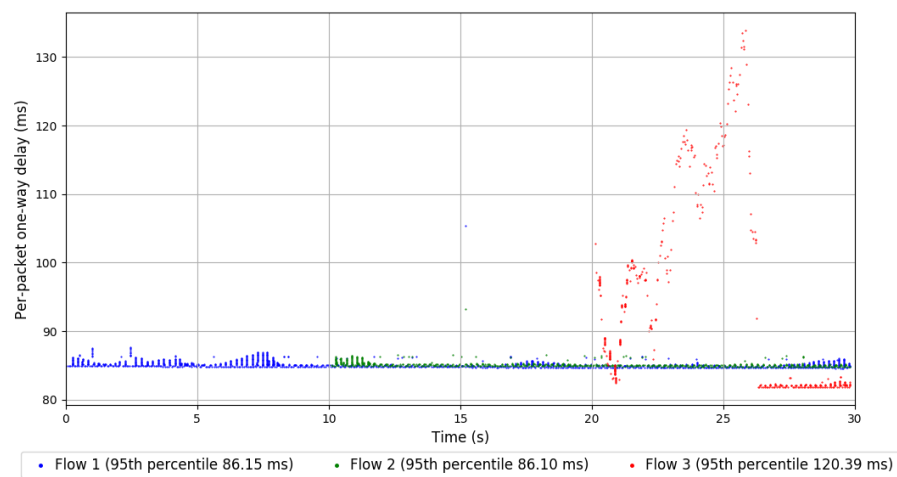
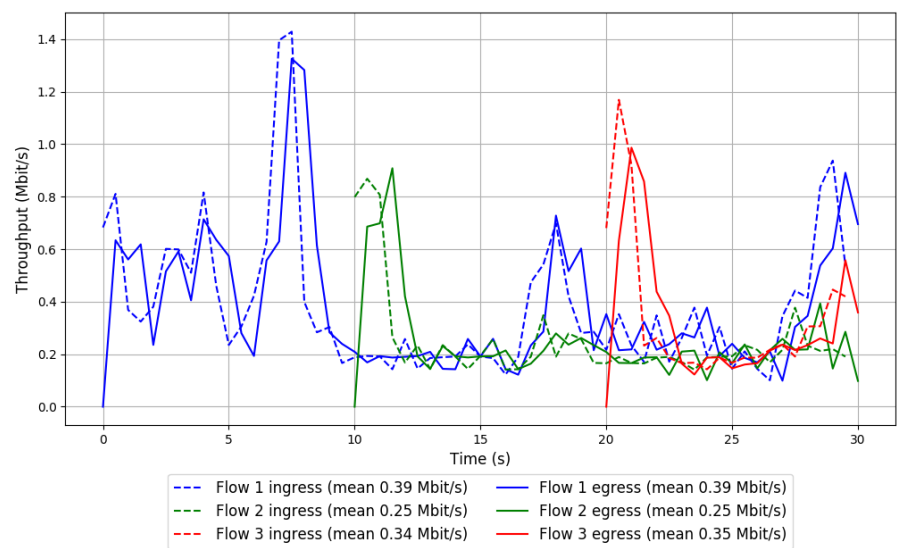


Run 6: Statistics of Sprout

Start at: 2018-07-10 22:13:05
End at: 2018-07-10 22:13:35
Local clock offset: -1.155 ms
Remote clock offset: 7.722 ms

Below is generated by plot.py at 2018-07-11 00:04:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 98.158 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 86.146 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 86.103 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 120.392 ms
Loss rate: 0.94%

Run 6: Report of Sprout — Data Link

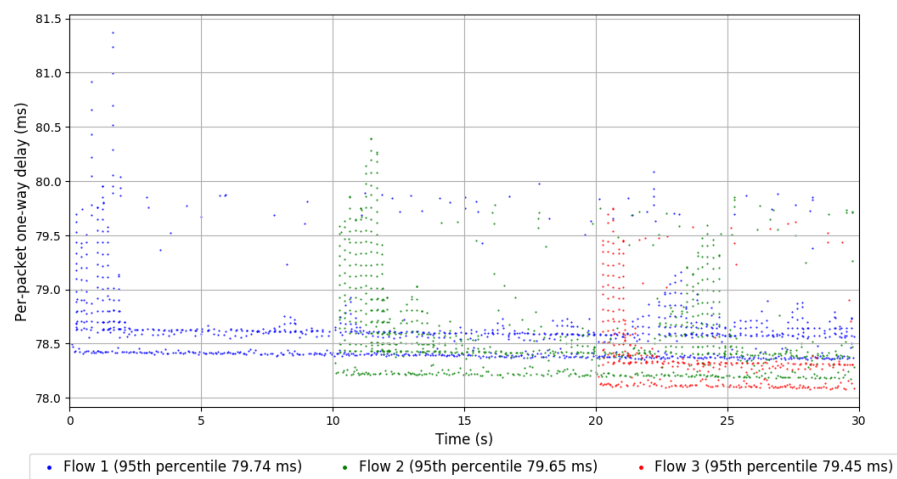
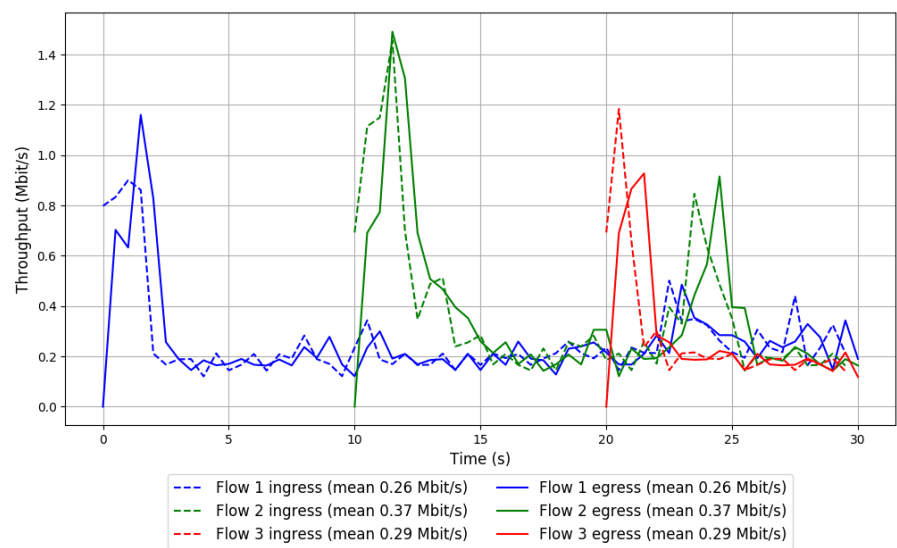


Run 7: Statistics of Sprout

Start at: 2018-07-10 22:34:28
End at: 2018-07-10 22:34:58
Local clock offset: -1.112 ms
Remote clock offset: 5.685 ms

```
# Below is generated by plot.py at 2018-07-11 00:04:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 79.657 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 79.744 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 79.653 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 79.447 ms
Loss rate: 0.80%
```

Run 7: Report of Sprout — Data Link

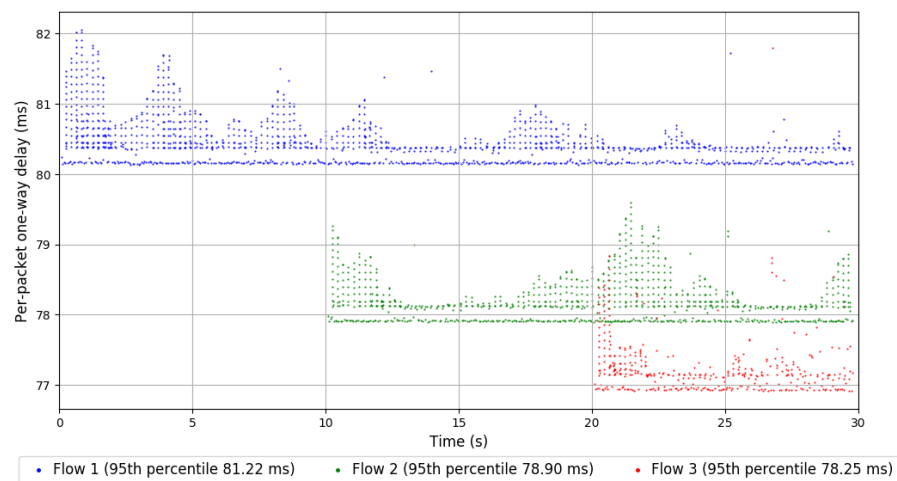
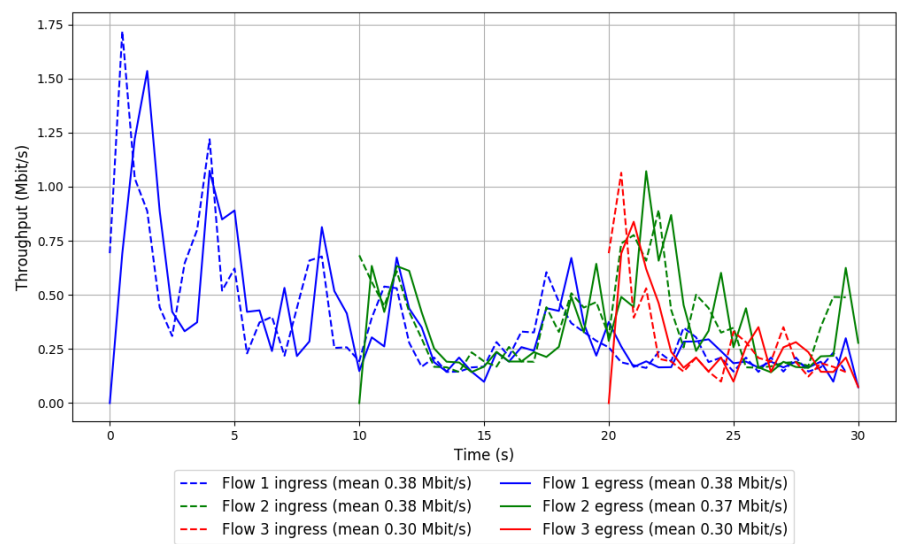


Run 8: Statistics of Sprout

Start at: 2018-07-10 22:55:38
End at: 2018-07-10 22:56:08
Local clock offset: -1.006 ms
Remote clock offset: 6.581 ms

```
# Below is generated by plot.py at 2018-07-11 00:04:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.72 Mbit/s
95th percentile per-packet one-way delay: 80.957 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 81.222 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 78.902 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 78.246 ms
Loss rate: 1.21%
```

Run 8: Report of Sprout — Data Link

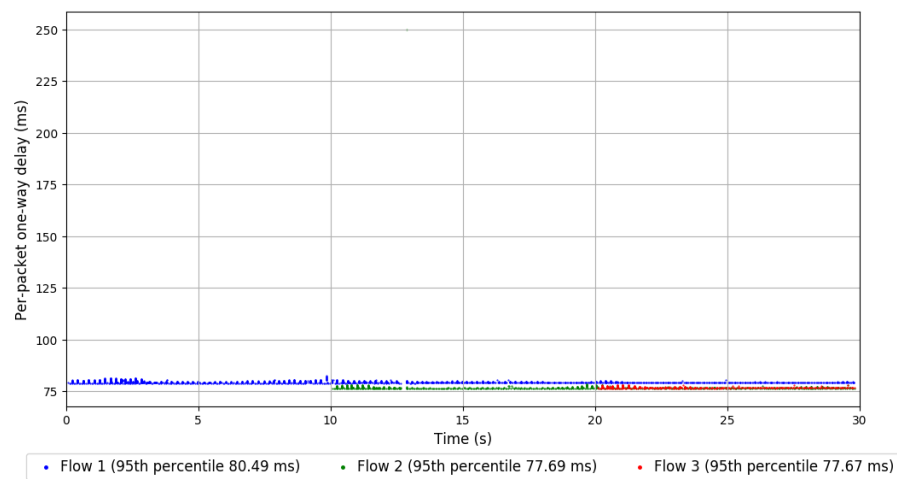
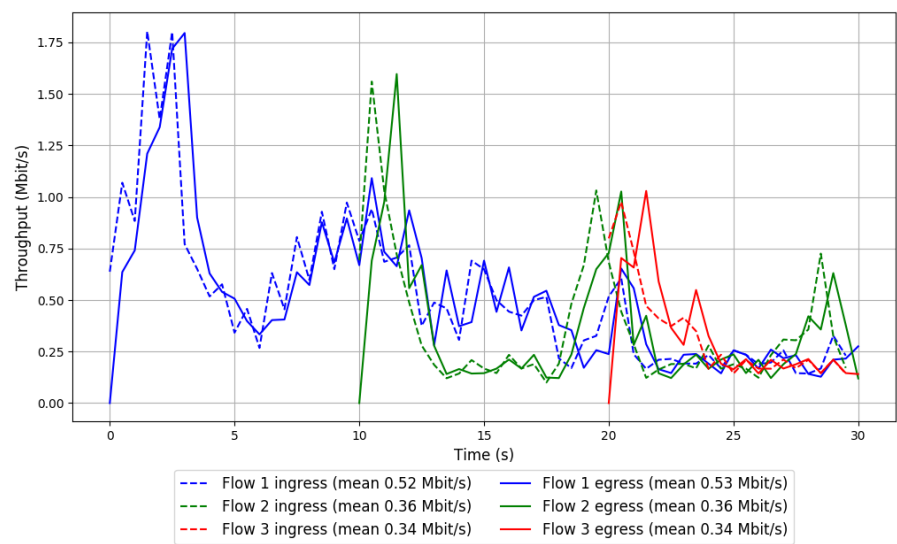


Run 9: Statistics of Sprout

Start at: 2018-07-10 23:17:05
End at: 2018-07-10 23:17:35
Local clock offset: -1.053 ms
Remote clock offset: 6.987 ms

```
# Below is generated by plot.py at 2018-07-11 00:04:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.88 Mbit/s
95th percentile per-packet one-way delay: 80.240 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 80.489 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 77.694 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 77.673 ms
Loss rate: 1.04%
```

Run 9: Report of Sprout — Data Link

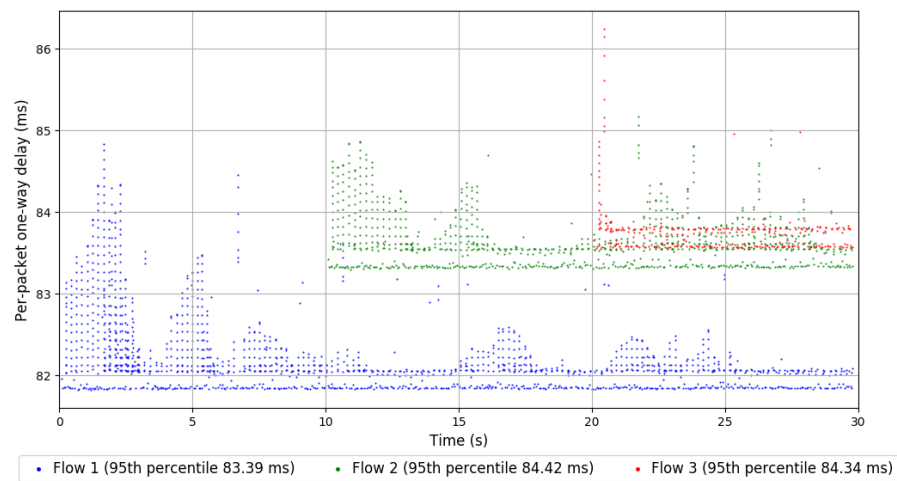
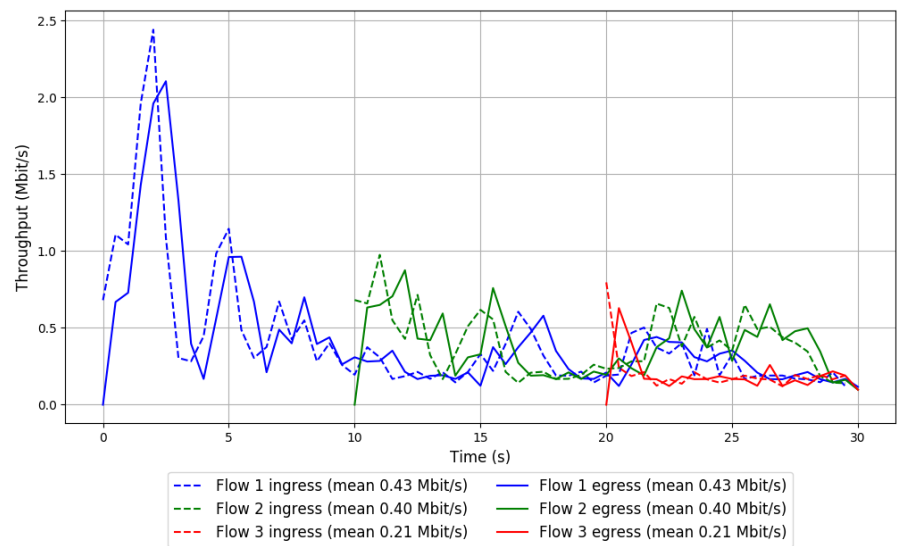


Run 10: Statistics of Sprout

Start at: 2018-07-10 23:38:22
End at: 2018-07-10 23:38:52
Local clock offset: -0.972 ms
Remote clock offset: 4.702 ms

Below is generated by plot.py at 2018-07-11 00:04:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.76 Mbit/s
95th percentile per-packet one-way delay: 84.129 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 83.390 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 84.425 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 84.338 ms
Loss rate: 2.31%

Run 10: Report of Sprout — Data Link

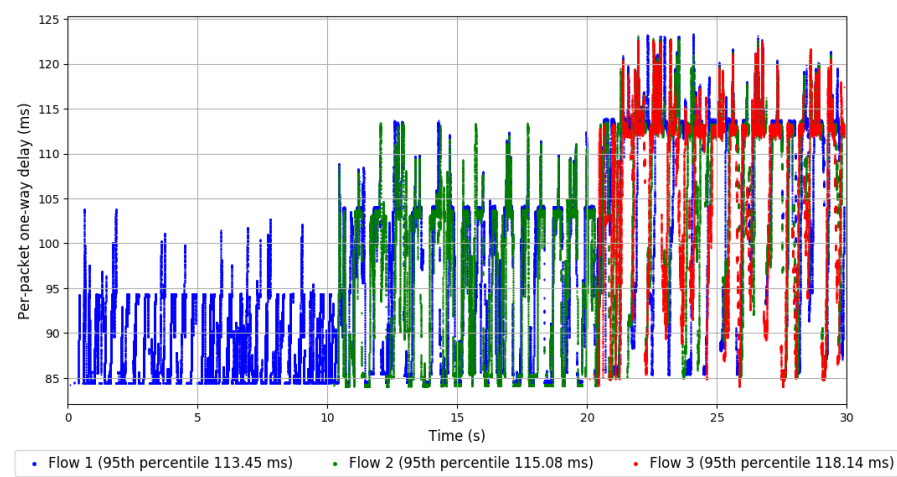
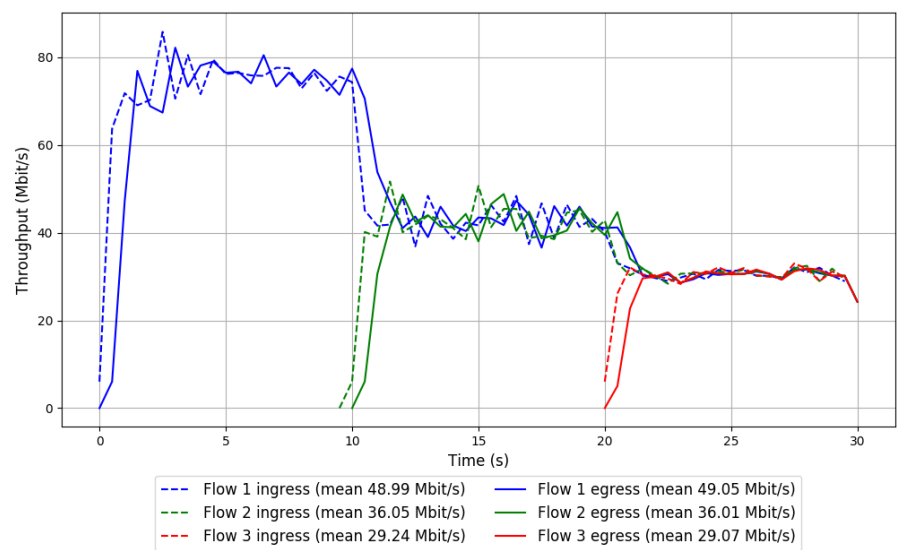


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-07-10 20:32:02
End at: 2018-07-10 20:32:32
Local clock offset: -1.331 ms
Remote clock offset: 7.797 ms

# Below is generated by plot.py at 2018-07-11 00:05:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.53 Mbit/s
95th percentile per-packet one-way delay: 114.278 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 49.05 Mbit/s
95th percentile per-packet one-way delay: 113.449 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 36.01 Mbit/s
95th percentile per-packet one-way delay: 115.083 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 29.07 Mbit/s
95th percentile per-packet one-way delay: 118.139 ms
Loss rate: 2.34%
```

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

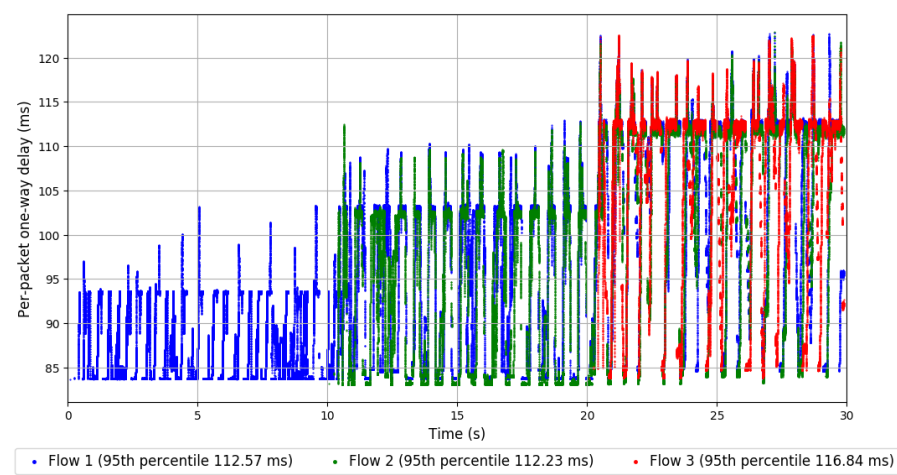
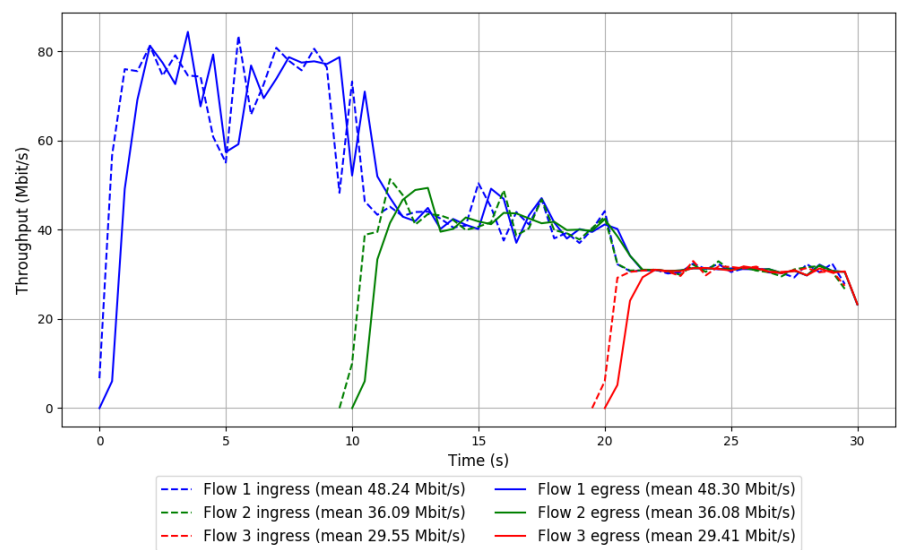


Run 2: Statistics of TaoVA-100x

Start at: 2018-07-10 20:53:13
End at: 2018-07-10 20:53:43
Local clock offset: -1.456 ms
Remote clock offset: 12.667 ms

Below is generated by plot.py at 2018-07-11 00:05:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.97 Mbit/s
95th percentile per-packet one-way delay: 112.767 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 48.30 Mbit/s
95th percentile per-packet one-way delay: 112.571 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 36.08 Mbit/s
95th percentile per-packet one-way delay: 112.230 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 29.41 Mbit/s
95th percentile per-packet one-way delay: 116.845 ms
Loss rate: 2.14%

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

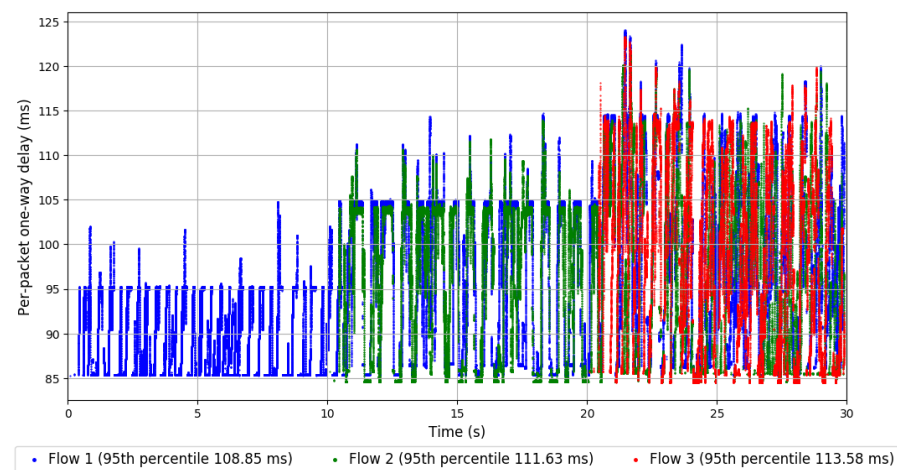
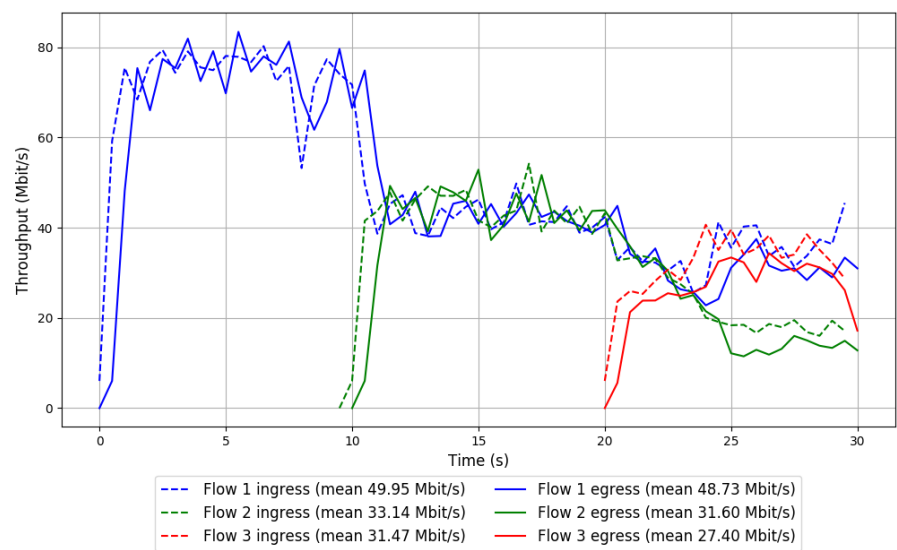


Run 3: Statistics of TaoVA-100x

Start at: 2018-07-10 21:14:20
End at: 2018-07-10 21:14:50
Local clock offset: -1.487 ms
Remote clock offset: 10.415 ms

Below is generated by plot.py at 2018-07-11 00:05:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.73 Mbit/s
95th percentile per-packet one-way delay: 111.653 ms
Loss rate: 5.09%
-- Flow 1:
Average throughput: 48.73 Mbit/s
95th percentile per-packet one-way delay: 108.851 ms
Loss rate: 3.00%
-- Flow 2:
Average throughput: 31.60 Mbit/s
95th percentile per-packet one-way delay: 111.626 ms
Loss rate: 5.47%
-- Flow 3:
Average throughput: 27.40 Mbit/s
95th percentile per-packet one-way delay: 113.578 ms
Loss rate: 14.31%

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

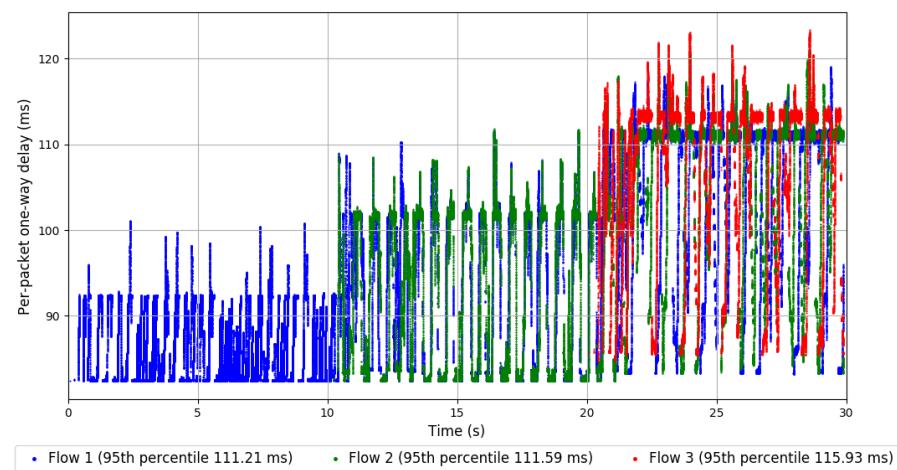
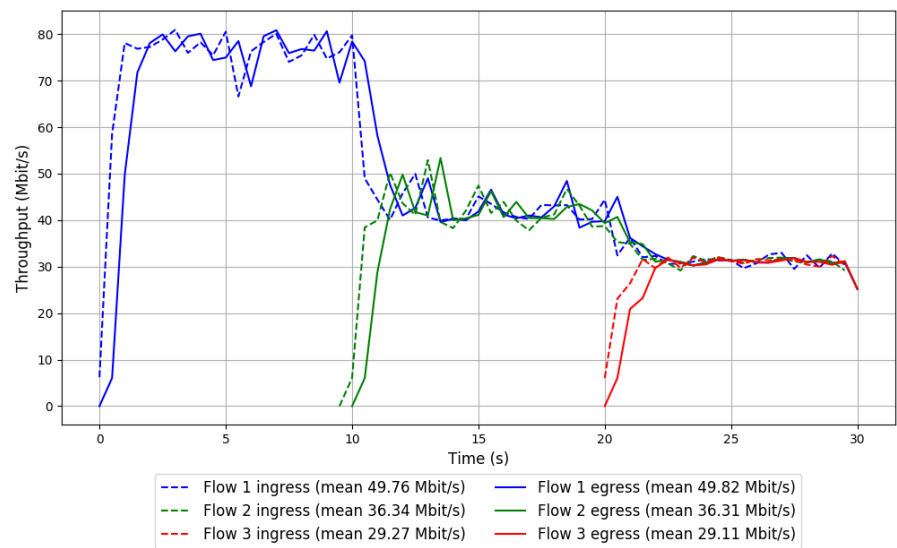


Run 4: Statistics of TaoVA-100x

Start at: 2018-07-10 21:35:32
End at: 2018-07-10 21:36:02
Local clock offset: -1.418 ms
Remote clock offset: 10.443 ms

Below is generated by plot.py at 2018-07-11 00:05:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.52 Mbit/s
95th percentile per-packet one-way delay: 113.358 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 49.82 Mbit/s
95th percentile per-packet one-way delay: 111.211 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 36.31 Mbit/s
95th percentile per-packet one-way delay: 111.588 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 29.11 Mbit/s
95th percentile per-packet one-way delay: 115.928 ms
Loss rate: 2.32%

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

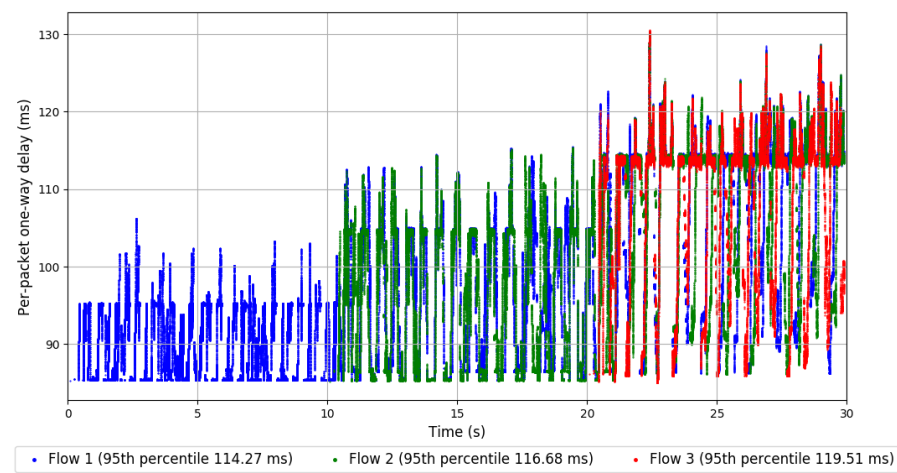
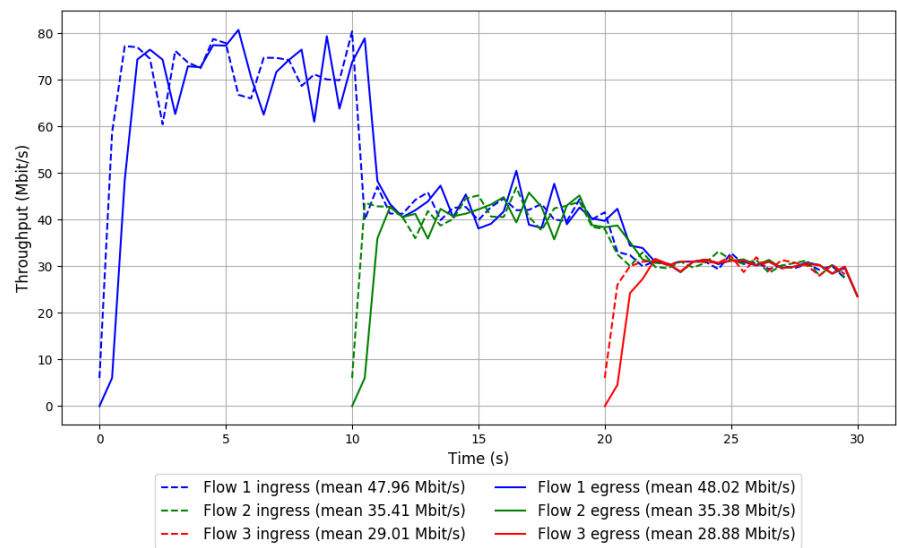


Run 5: Statistics of TaoVA-100x

Start at: 2018-07-10 21:56:41
End at: 2018-07-10 21:57:11
Local clock offset: -1.265 ms
Remote clock offset: 10.885 ms

Below is generated by plot.py at 2018-07-11 00:05:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.02 Mbit/s
95th percentile per-packet one-way delay: 116.234 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 48.02 Mbit/s
95th percentile per-packet one-way delay: 114.268 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 35.38 Mbit/s
95th percentile per-packet one-way delay: 116.677 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 28.88 Mbit/s
95th percentile per-packet one-way delay: 119.512 ms
Loss rate: 2.26%

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

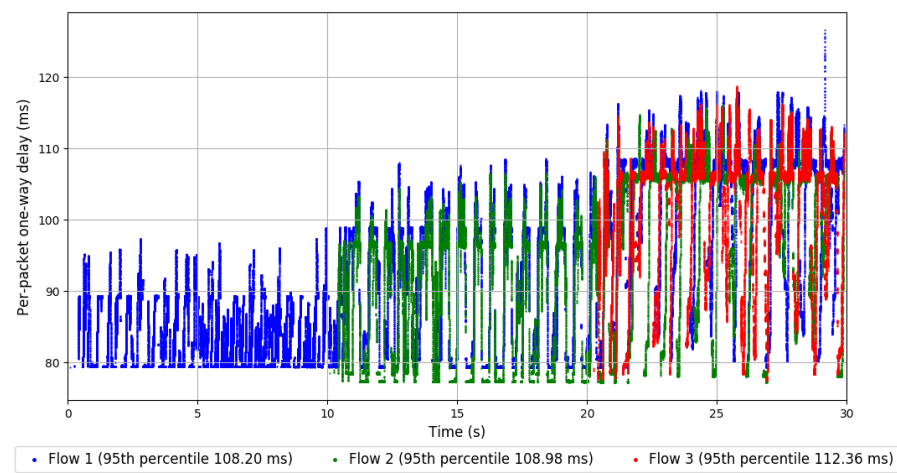
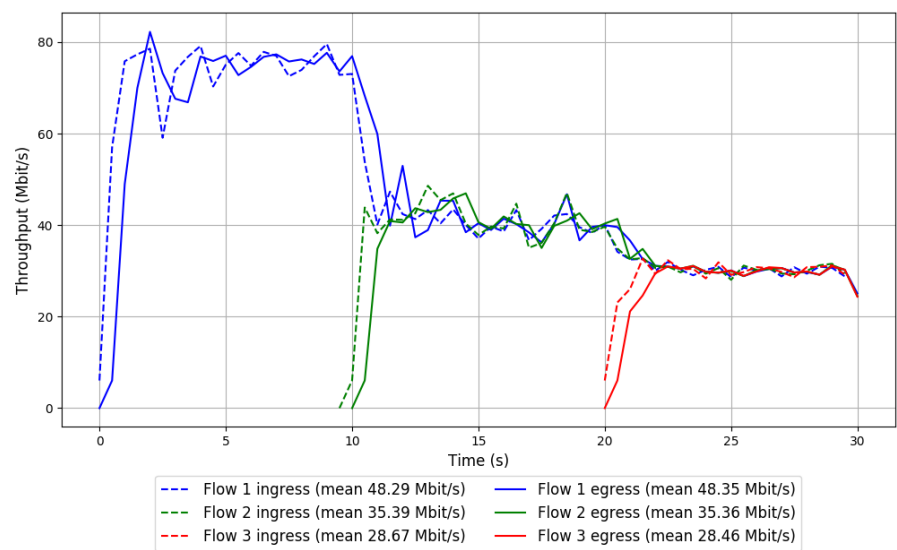


Run 6: Statistics of TaoVA-100x

Start at: 2018-07-10 22:18:03
End at: 2018-07-10 22:18:33
Local clock offset: -1.125 ms
Remote clock offset: 10.262 ms

Below is generated by plot.py at 2018-07-11 00:05:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.20 Mbit/s
95th percentile per-packet one-way delay: 109.192 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 48.35 Mbit/s
95th percentile per-packet one-way delay: 108.197 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 35.36 Mbit/s
95th percentile per-packet one-way delay: 108.976 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 28.46 Mbit/s
95th percentile per-packet one-way delay: 112.364 ms
Loss rate: 2.38%

Run 6: Report of TaoVA-100x — Data Link



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-10 22:39:20

End at: 2018-07-10 22:39:50

Local clock offset: -1.052 ms

Remote clock offset: 6.148 ms

Below is generated by plot.py at 2018-07-11 00:06:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.35 Mbit/s

95th percentile per-packet one-way delay: 108.999 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 48.81 Mbit/s

95th percentile per-packet one-way delay: 106.422 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 36.01 Mbit/s

95th percentile per-packet one-way delay: 109.379 ms

Loss rate: 0.89%

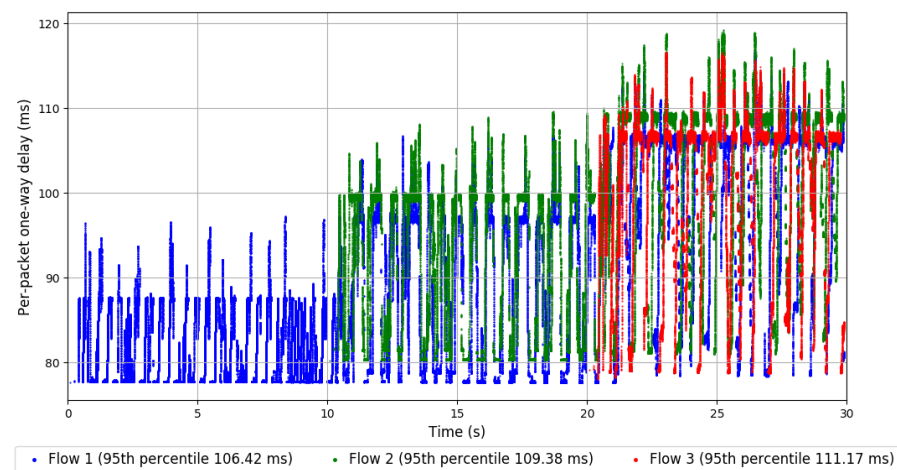
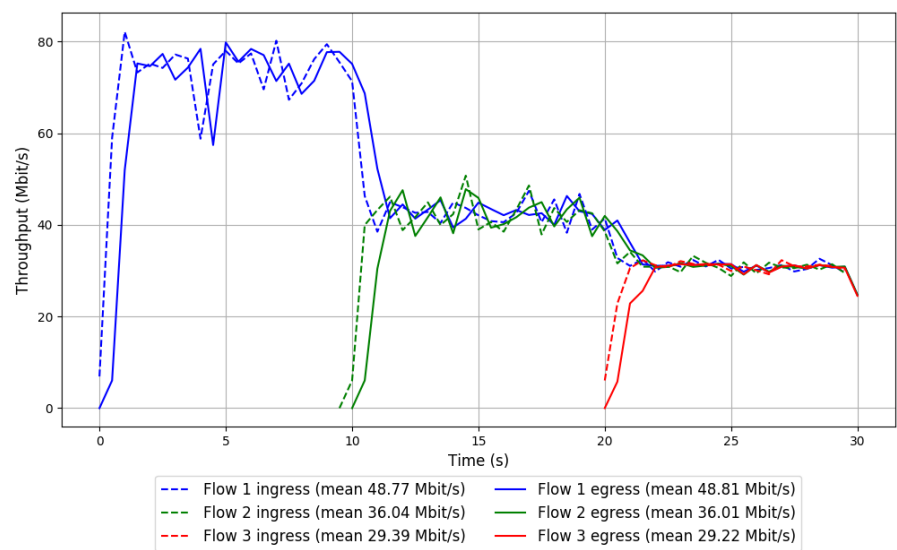
-- Flow 3:

Average throughput: 29.22 Mbit/s

95th percentile per-packet one-way delay: 111.171 ms

Loss rate: 2.35%

Run 7: Report of TaoVA-100x — Data Link



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-10 23:00:29

End at: 2018-07-10 23:00:59

Local clock offset: -0.996 ms

Remote clock offset: 5.363 ms

Below is generated by plot.py at 2018-07-11 00:06:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.21 Mbit/s

95th percentile per-packet one-way delay: 104.560 ms

Loss rate: 12.67%

-- Flow 1:

Average throughput: 46.27 Mbit/s

95th percentile per-packet one-way delay: 100.182 ms

Loss rate: 10.74%

-- Flow 2:

Average throughput: 32.90 Mbit/s

95th percentile per-packet one-way delay: 108.482 ms

Loss rate: 14.79%

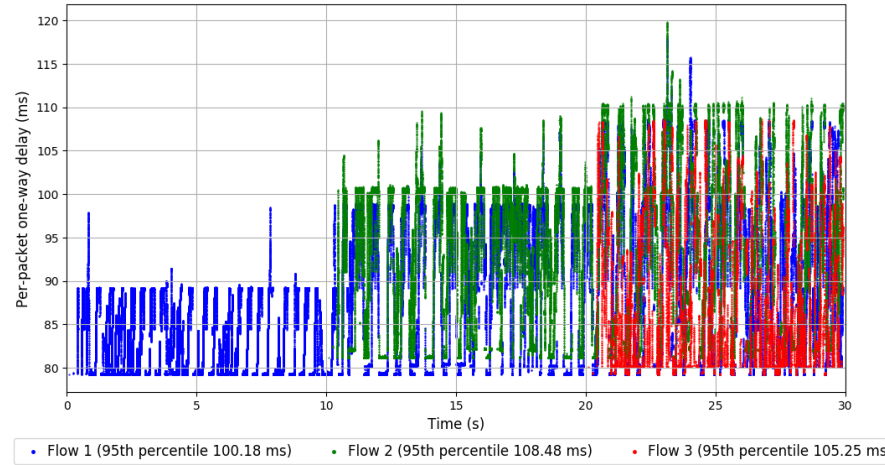
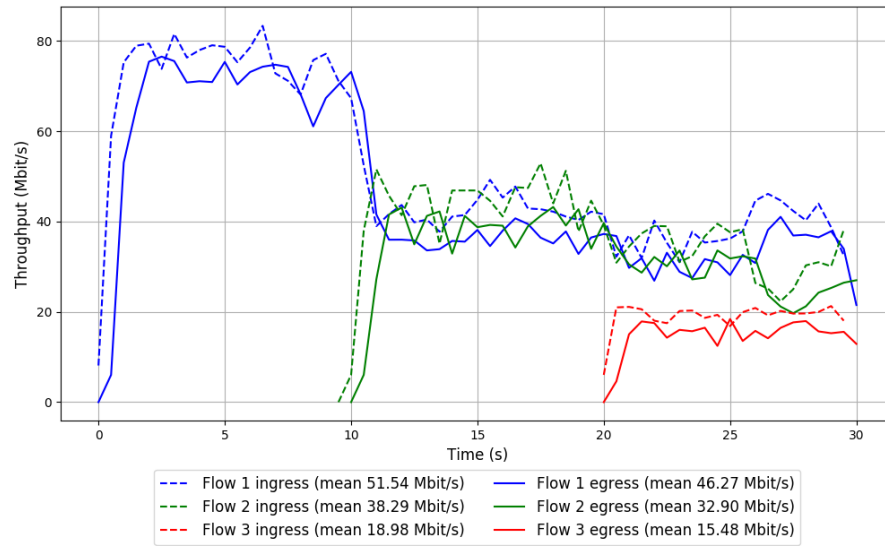
-- Flow 3:

Average throughput: 15.48 Mbit/s

95th percentile per-packet one-way delay: 105.246 ms

Loss rate: 19.81%

Run 8: Report of TaoVA-100x — Data Link



Run 9: Statistics of TaoVA-100x

Start at: 2018-07-10 23:21:57

End at: 2018-07-10 23:22:27

Local clock offset: -1.058 ms

Remote clock offset: 3.304 ms

Below is generated by plot.py at 2018-07-11 00:07:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.26 Mbit/s

95th percentile per-packet one-way delay: 110.047 ms

Loss rate: 12.40%

-- Flow 1:

Average throughput: 45.38 Mbit/s

95th percentile per-packet one-way delay: 107.235 ms

Loss rate: 10.42%

-- Flow 2:

Average throughput: 33.22 Mbit/s

95th percentile per-packet one-way delay: 112.382 ms

Loss rate: 14.91%

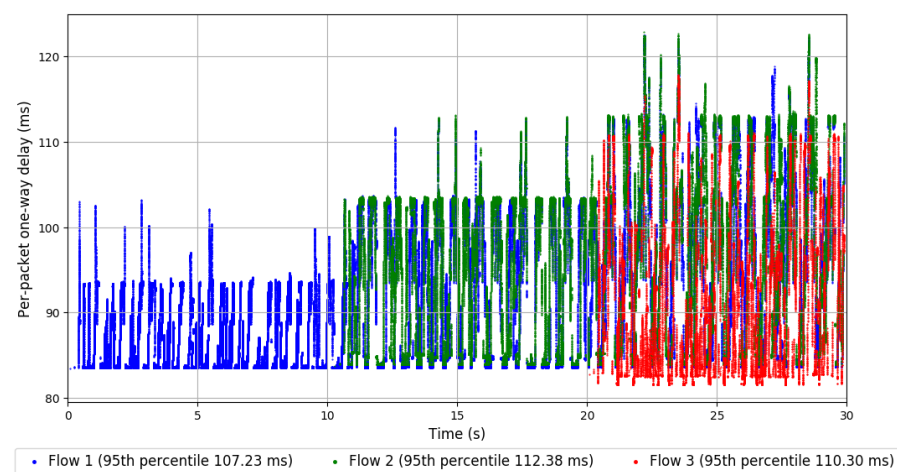
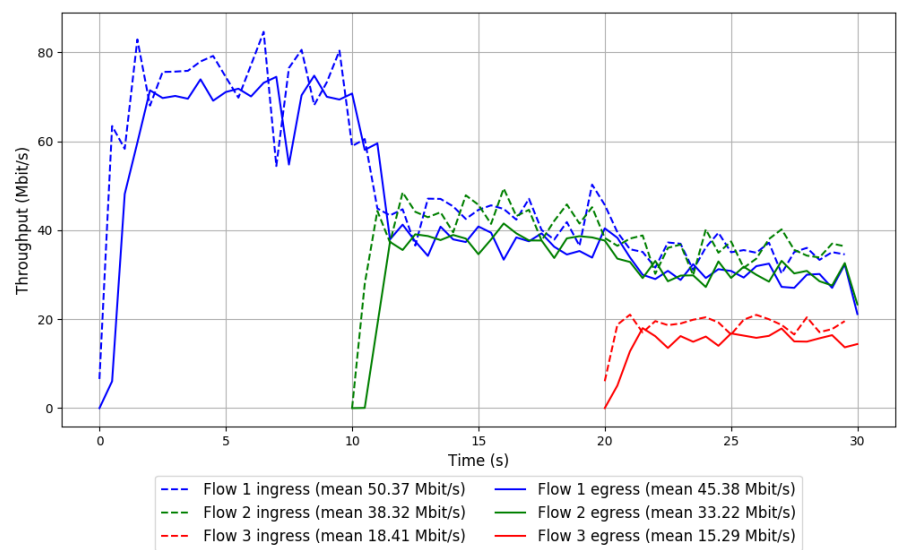
-- Flow 3:

Average throughput: 15.29 Mbit/s

95th percentile per-packet one-way delay: 110.299 ms

Loss rate: 18.29%

Run 9: Report of TaoVA-100x — Data Link



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-10 23:43:14

End at: 2018-07-10 23:43:44

Local clock offset: -0.942 ms

Remote clock offset: 3.592 ms

Below is generated by plot.py at 2018-07-11 00:07:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.37 Mbit/s

95th percentile per-packet one-way delay: 111.672 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 48.60 Mbit/s

95th percentile per-packet one-way delay: 111.298 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 36.12 Mbit/s

95th percentile per-packet one-way delay: 111.893 ms

Loss rate: 0.94%

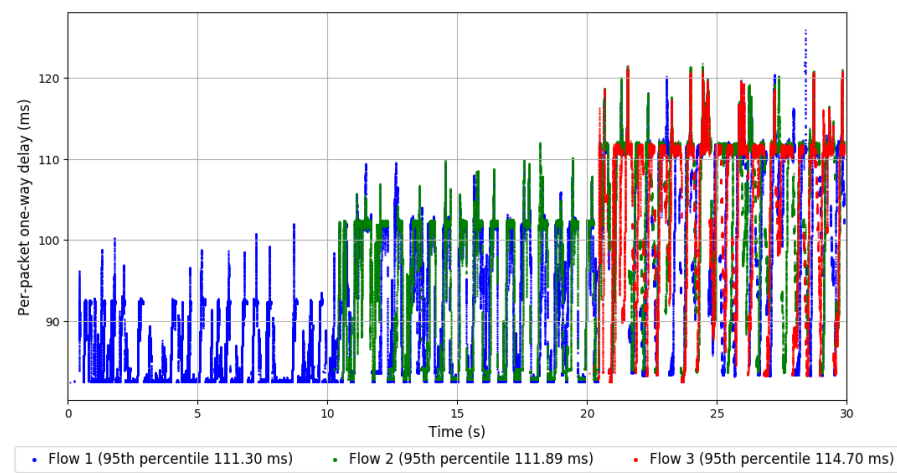
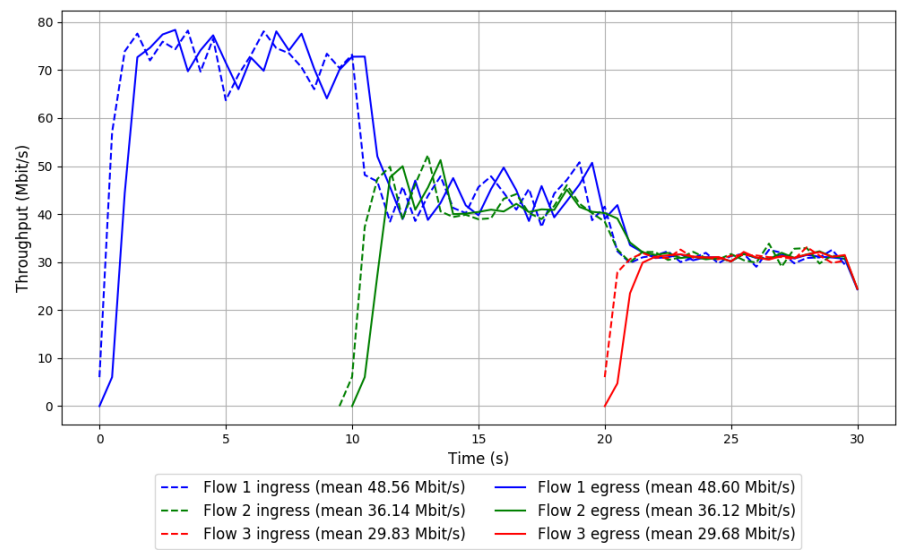
-- Flow 3:

Average throughput: 29.68 Mbit/s

95th percentile per-packet one-way delay: 114.696 ms

Loss rate: 2.15%

Run 10: Report of TaoVA-100x — Data Link



Run 1: Statistics of TCP Vegas

Start at: 2018-07-10 20:33:21

End at: 2018-07-10 20:33:51

Local clock offset: -1.377 ms

Remote clock offset: 7.228 ms

Below is generated by plot.py at 2018-07-11 00:07:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.73 Mbit/s

95th percentile per-packet one-way delay: 95.239 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 32.86 Mbit/s

95th percentile per-packet one-way delay: 95.030 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 24.77 Mbit/s

95th percentile per-packet one-way delay: 93.802 ms

Loss rate: 0.97%

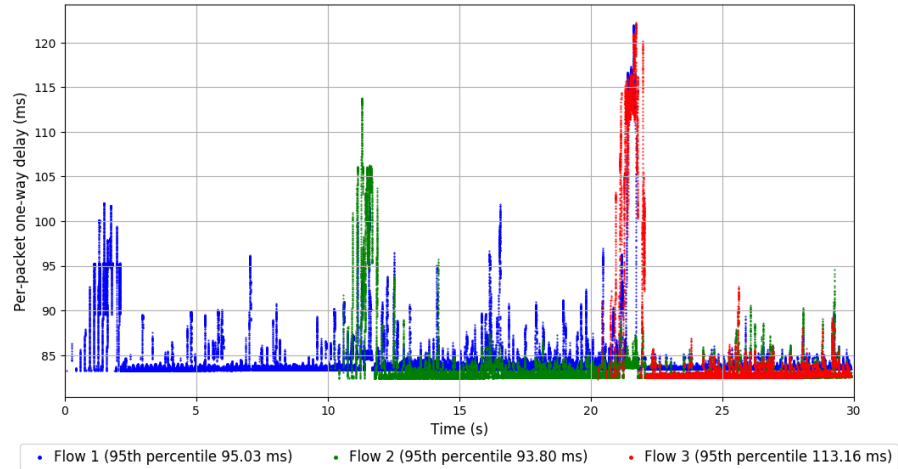
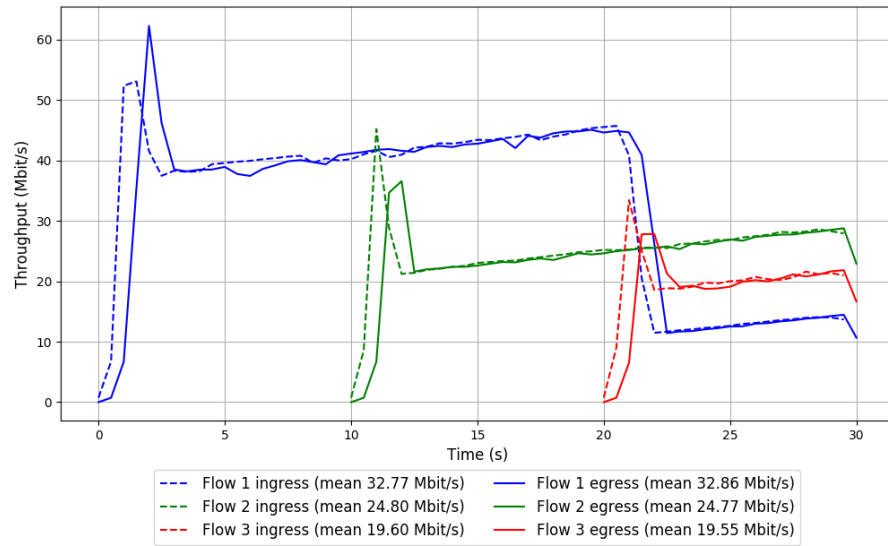
-- Flow 3:

Average throughput: 19.55 Mbit/s

95th percentile per-packet one-way delay: 113.158 ms

Loss rate: 1.88%

Run 1: Report of TCP Vegas — Data Link

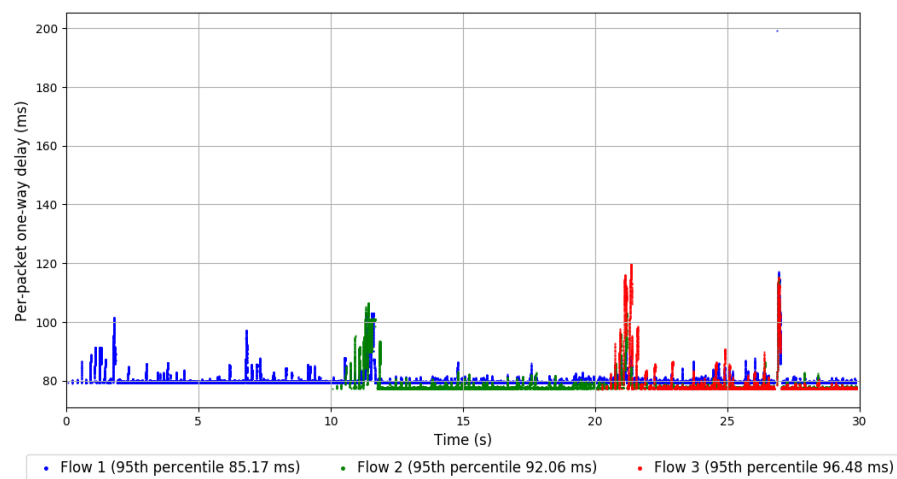
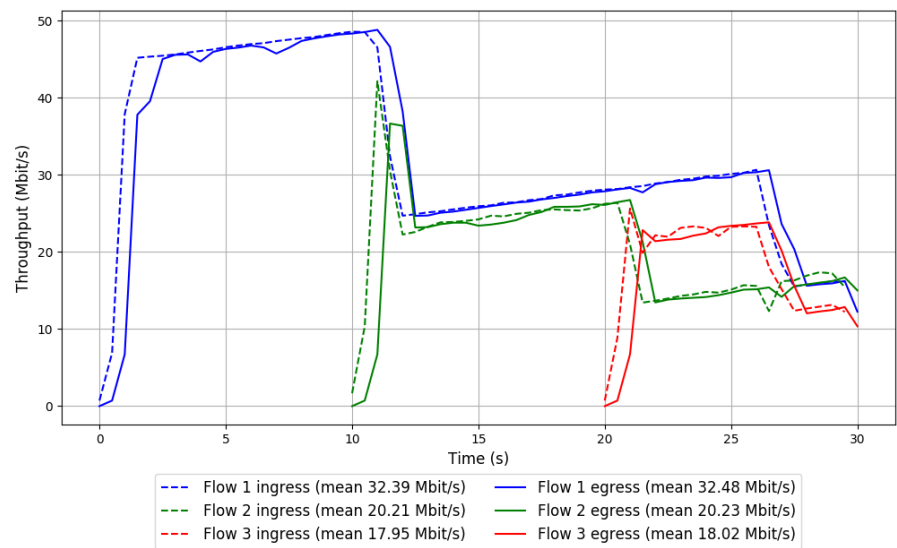


Run 2: Statistics of TCP Vegas

Start at: 2018-07-10 20:54:31
End at: 2018-07-10 20:55:01
Local clock offset: -1.44 ms
Remote clock offset: 17.623 ms

Below is generated by plot.py at 2018-07-11 00:07:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 51.80 Mbit/s
95th percentile per-packet one-way delay: 87.877 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 32.48 Mbit/s
95th percentile per-packet one-way delay: 85.167 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 20.23 Mbit/s
95th percentile per-packet one-way delay: 92.065 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 18.02 Mbit/s
95th percentile per-packet one-way delay: 96.478 ms
Loss rate: 1.23%

Run 2: Report of TCP Vegas — Data Link

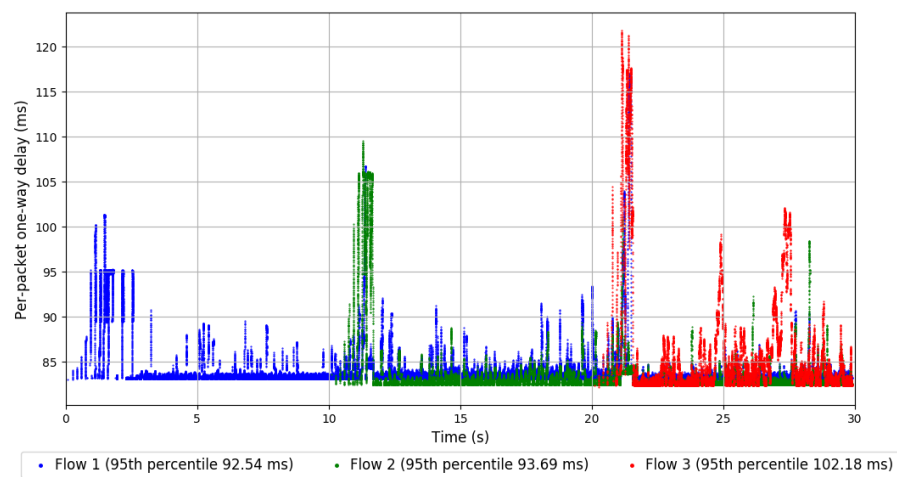
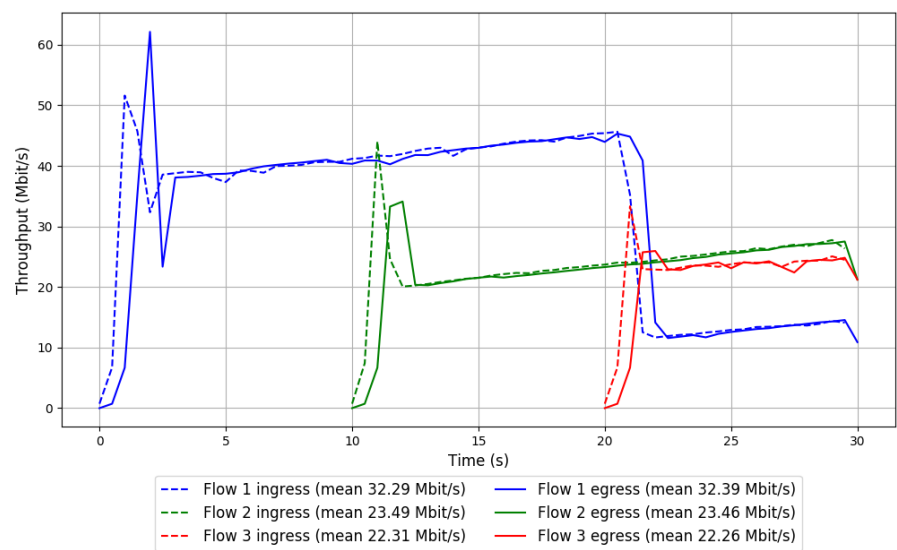


Run 3: Statistics of TCP Vegas

Start at: 2018-07-10 21:15:39
End at: 2018-07-10 21:16:09
Local clock offset: -1.501 ms
Remote clock offset: 10.345 ms

Below is generated by plot.py at 2018-07-11 00:07:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 55.28 Mbit/s
95th percentile per-packet one-way delay: 94.791 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 32.39 Mbit/s
95th percentile per-packet one-way delay: 92.539 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 23.46 Mbit/s
95th percentile per-packet one-way delay: 93.695 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 22.26 Mbit/s
95th percentile per-packet one-way delay: 102.179 ms
Loss rate: 1.89%

Run 3: Report of TCP Vegas — Data Link

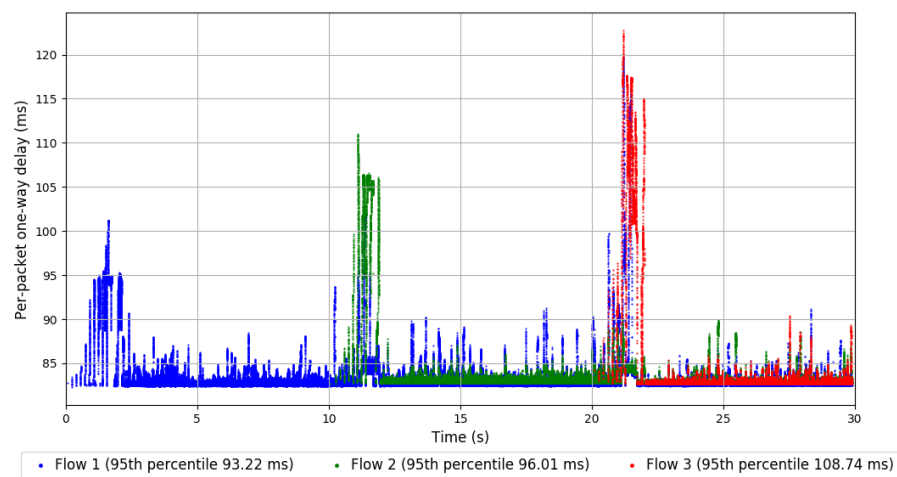
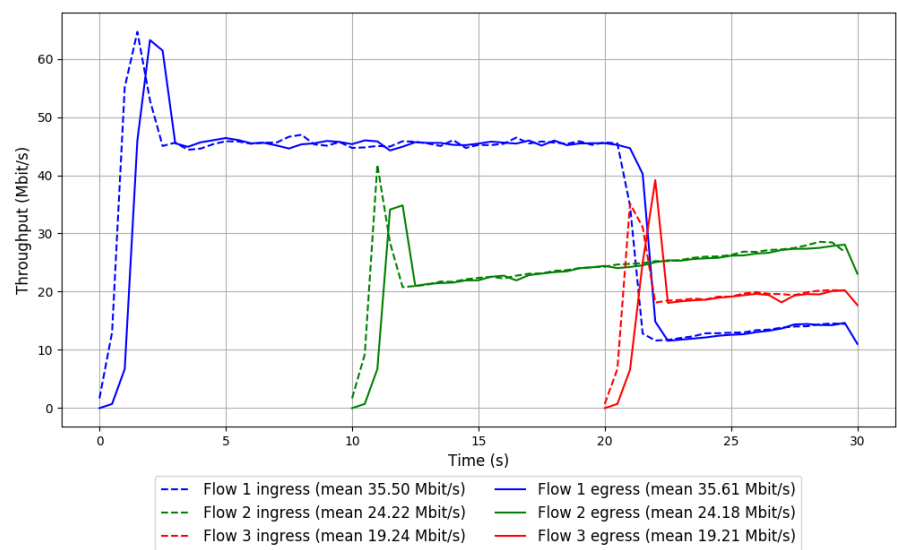


Run 4: Statistics of TCP Vegas

Start at: 2018-07-10 21:36:50
End at: 2018-07-10 21:37:20
Local clock offset: -1.409 ms
Remote clock offset: 10.527 ms

Below is generated by plot.py at 2018-07-11 00:07:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 57.98 Mbit/s
95th percentile per-packet one-way delay: 94.313 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 35.61 Mbit/s
95th percentile per-packet one-way delay: 93.222 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 24.18 Mbit/s
95th percentile per-packet one-way delay: 96.007 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 19.21 Mbit/s
95th percentile per-packet one-way delay: 108.741 ms
Loss rate: 1.85%

Run 4: Report of TCP Vegas — Data Link

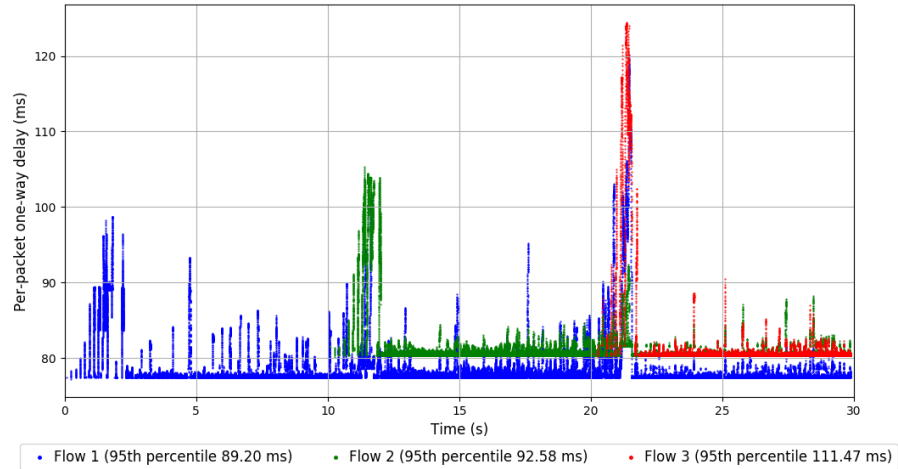
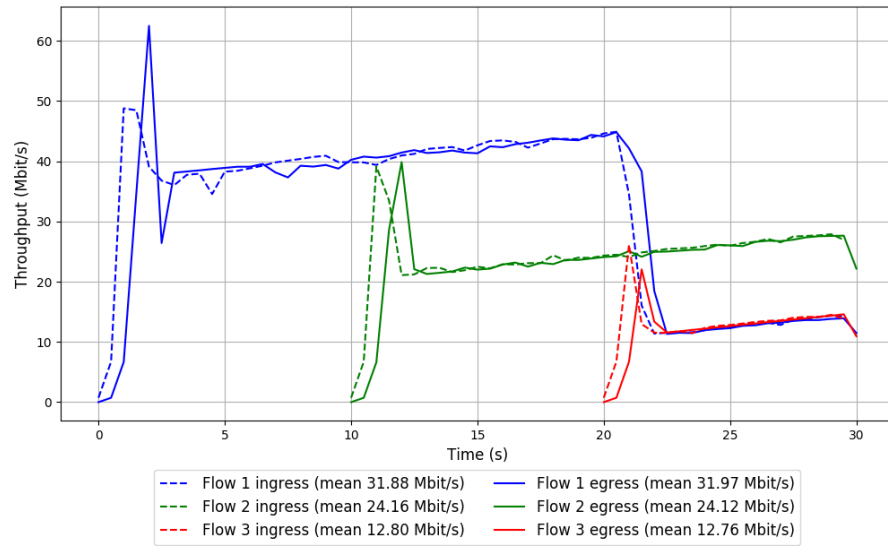


Run 5: Statistics of TCP Vegas

Start at: 2018-07-10 21:57:59
End at: 2018-07-10 21:58:29
Local clock offset: -1.334 ms
Remote clock offset: 15.948 ms

Below is generated by plot.py at 2018-07-11 00:07:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 52.18 Mbit/s
95th percentile per-packet one-way delay: 89.313 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 31.97 Mbit/s
95th percentile per-packet one-way delay: 89.196 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 24.12 Mbit/s
95th percentile per-packet one-way delay: 92.582 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 12.76 Mbit/s
95th percentile per-packet one-way delay: 111.466 ms
Loss rate: 1.98%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-07-10 22:19:22

End at: 2018-07-10 22:19:52

Local clock offset: -1.095 ms

Remote clock offset: 4.719 ms

Below is generated by plot.py at 2018-07-11 00:07:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.23 Mbit/s

95th percentile per-packet one-way delay: 95.070 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 34.06 Mbit/s

95th percentile per-packet one-way delay: 94.902 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 23.48 Mbit/s

95th percentile per-packet one-way delay: 94.488 ms

Loss rate: 0.99%

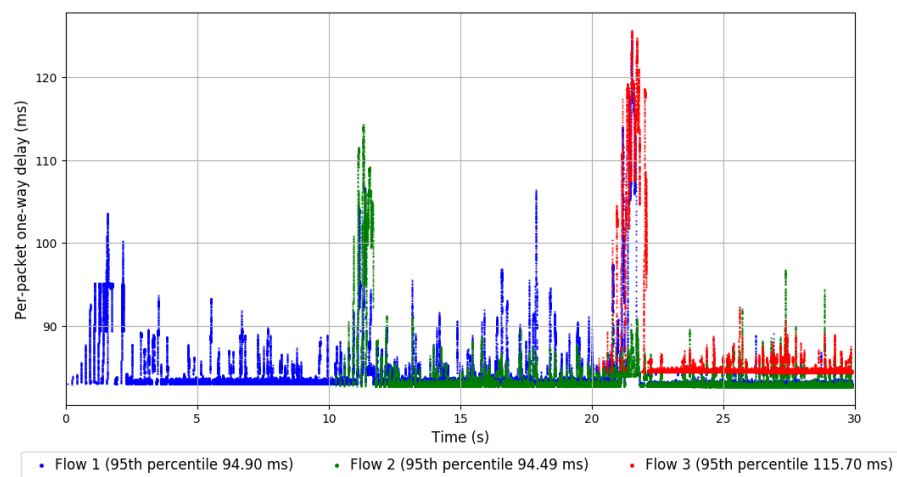
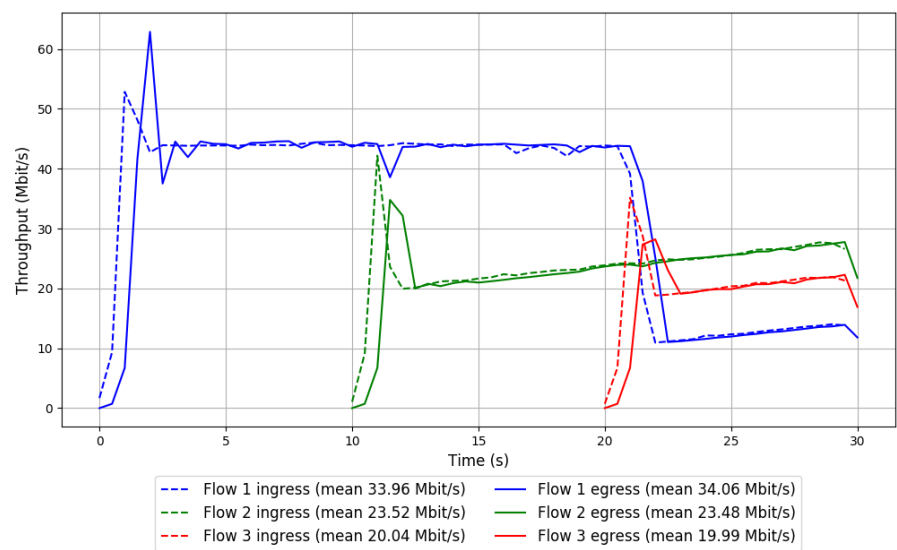
-- Flow 3:

Average throughput: 19.99 Mbit/s

95th percentile per-packet one-way delay: 115.698 ms

Loss rate: 1.90%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-10 22:40:38

End at: 2018-07-10 22:41:08

Local clock offset: -1.095 ms

Remote clock offset: 4.863 ms

Below is generated by plot.py at 2018-07-11 00:07:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.91 Mbit/s

95th percentile per-packet one-way delay: 90.313 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 31.58 Mbit/s

95th percentile per-packet one-way delay: 89.975 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 23.70 Mbit/s

95th percentile per-packet one-way delay: 91.996 ms

Loss rate: 0.98%

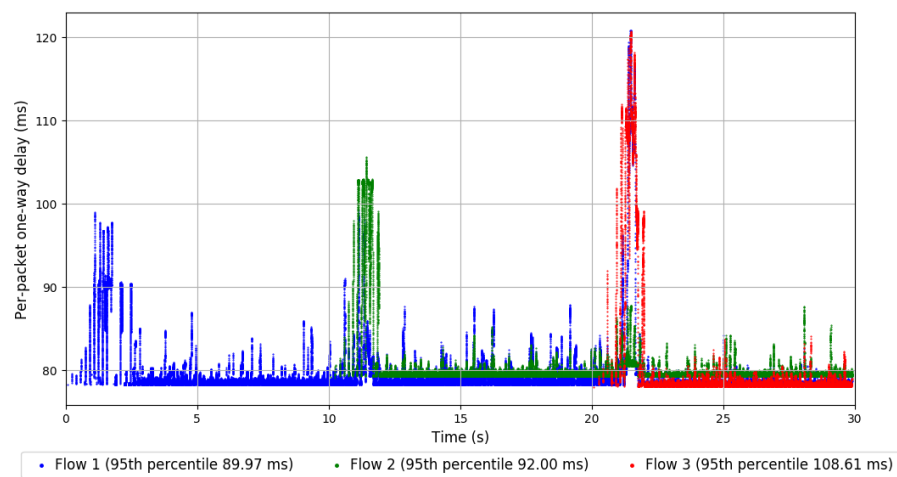
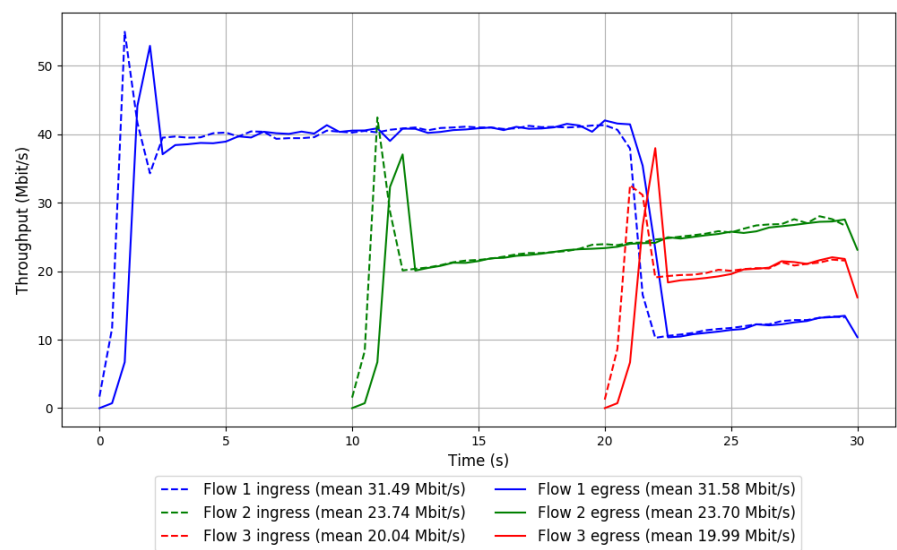
-- Flow 3:

Average throughput: 19.99 Mbit/s

95th percentile per-packet one-way delay: 108.605 ms

Loss rate: 1.87%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-07-10 23:01:57

End at: 2018-07-10 23:02:27

Local clock offset: -0.97 ms

Remote clock offset: 6.531 ms

Below is generated by plot.py at 2018-07-11 00:07:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.64 Mbit/s

95th percentile per-packet one-way delay: 87.810 ms

Loss rate: 1.39%

-- Flow 1:

Average throughput: 20.71 Mbit/s

95th percentile per-packet one-way delay: 89.846 ms

Loss rate: 1.34%

-- Flow 2:

Average throughput: 25.58 Mbit/s

95th percentile per-packet one-way delay: 83.188 ms

Loss rate: 0.89%

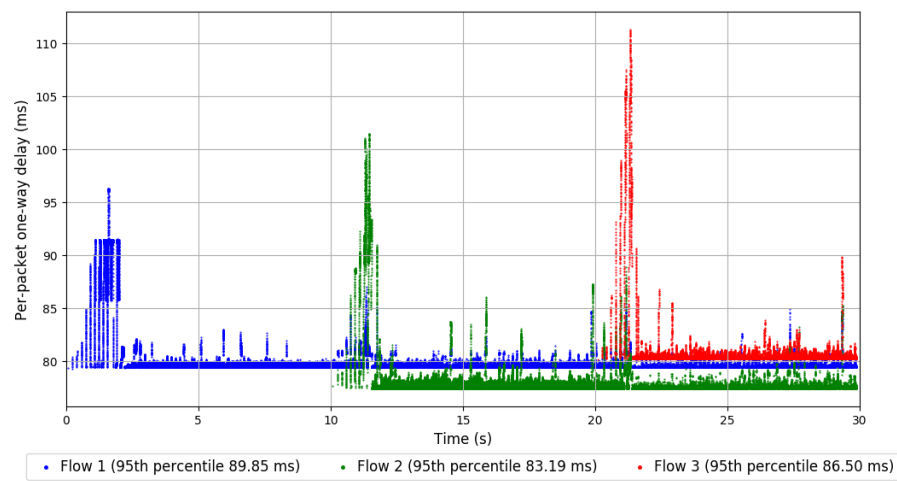
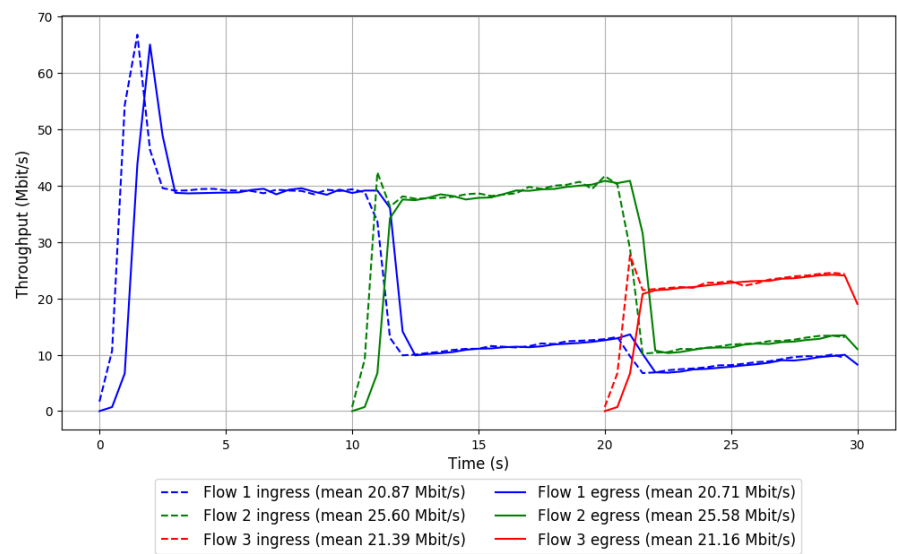
-- Flow 3:

Average throughput: 21.16 Mbit/s

95th percentile per-packet one-way delay: 86.502 ms

Loss rate: 2.72%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-07-10 23:23:25

End at: 2018-07-10 23:23:55

Local clock offset: -0.985 ms

Remote clock offset: 6.265 ms

Below is generated by plot.py at 2018-07-11 00:07:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.85 Mbit/s

95th percentile per-packet one-way delay: 91.371 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 36.28 Mbit/s

95th percentile per-packet one-way delay: 91.022 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 24.25 Mbit/s

95th percentile per-packet one-way delay: 96.594 ms

Loss rate: 0.97%

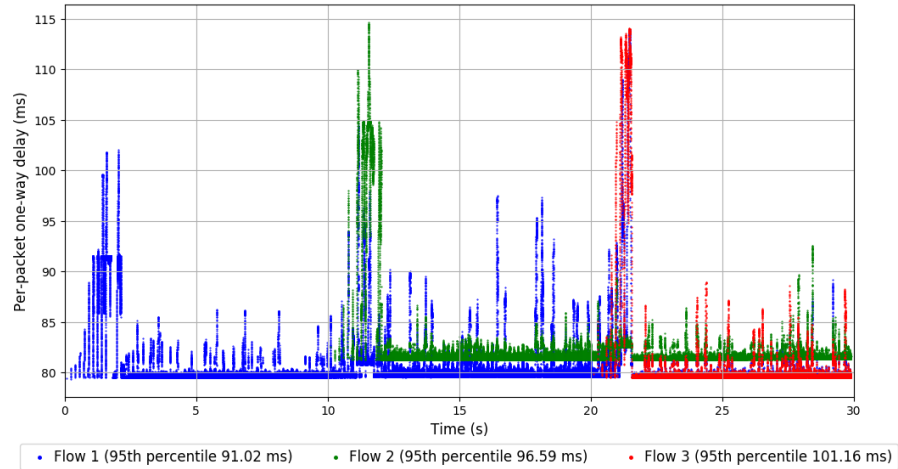
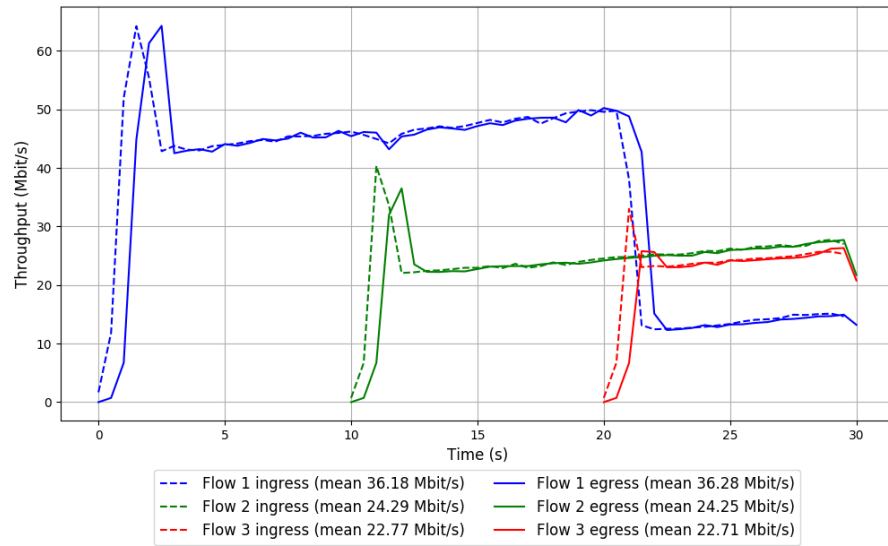
-- Flow 3:

Average throughput: 22.71 Mbit/s

95th percentile per-packet one-way delay: 101.163 ms

Loss rate: 1.92%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-10 23:44:33

End at: 2018-07-10 23:45:03

Local clock offset: -0.943 ms

Remote clock offset: 7.41 ms

Below is generated by plot.py at 2018-07-11 00:07:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 58.49 Mbit/s

95th percentile per-packet one-way delay: 90.706 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 35.70 Mbit/s

95th percentile per-packet one-way delay: 90.704 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 24.22 Mbit/s

95th percentile per-packet one-way delay: 83.567 ms

Loss rate: 0.96%

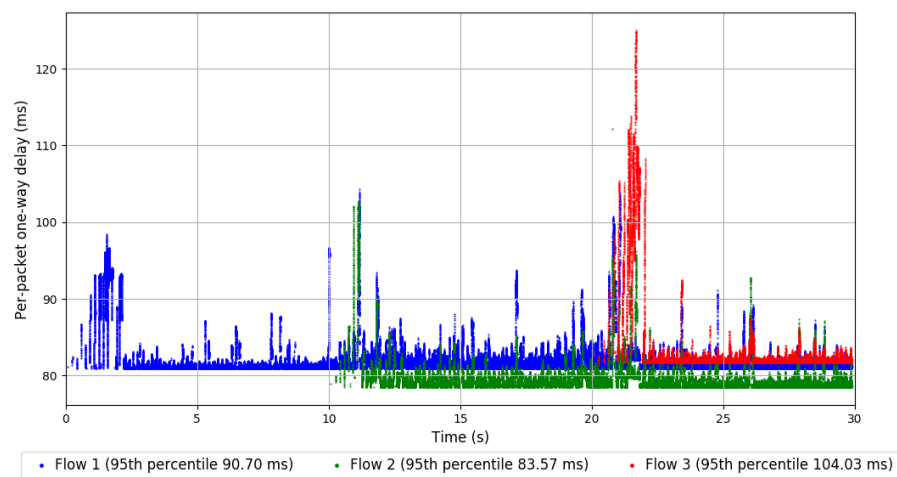
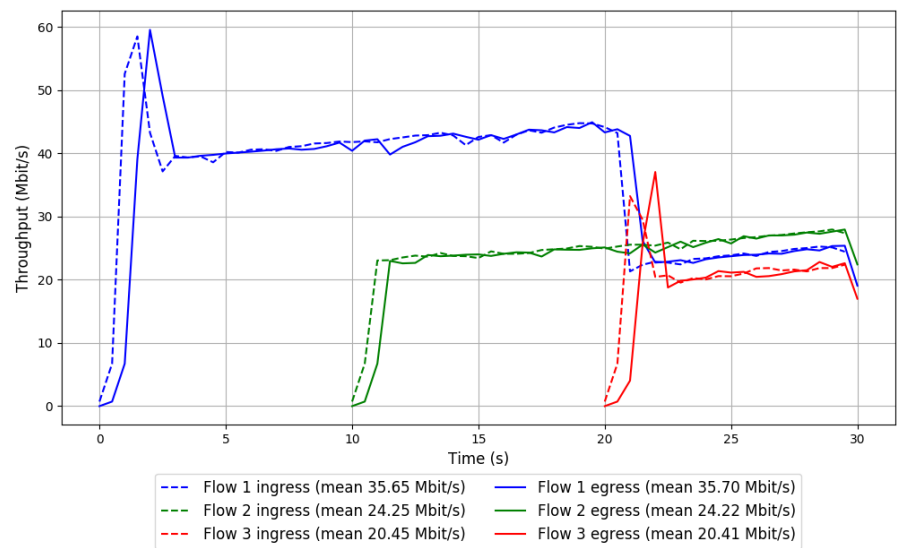
-- Flow 3:

Average throughput: 20.41 Mbit/s

95th percentile per-packet one-way delay: 104.033 ms

Loss rate: 1.94%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-07-10 20:28:20

End at: 2018-07-10 20:28:50

Local clock offset: -1.396 ms

Remote clock offset: 9.46 ms

Below is generated by plot.py at 2018-07-11 00:07:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.47 Mbit/s

95th percentile per-packet one-way delay: 114.579 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 35.64 Mbit/s

95th percentile per-packet one-way delay: 112.383 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 27.71 Mbit/s

95th percentile per-packet one-way delay: 114.864 ms

Loss rate: 1.49%

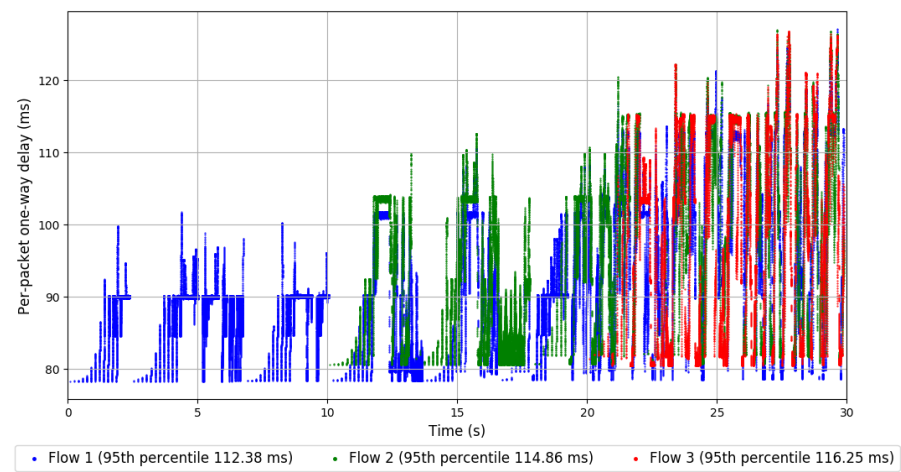
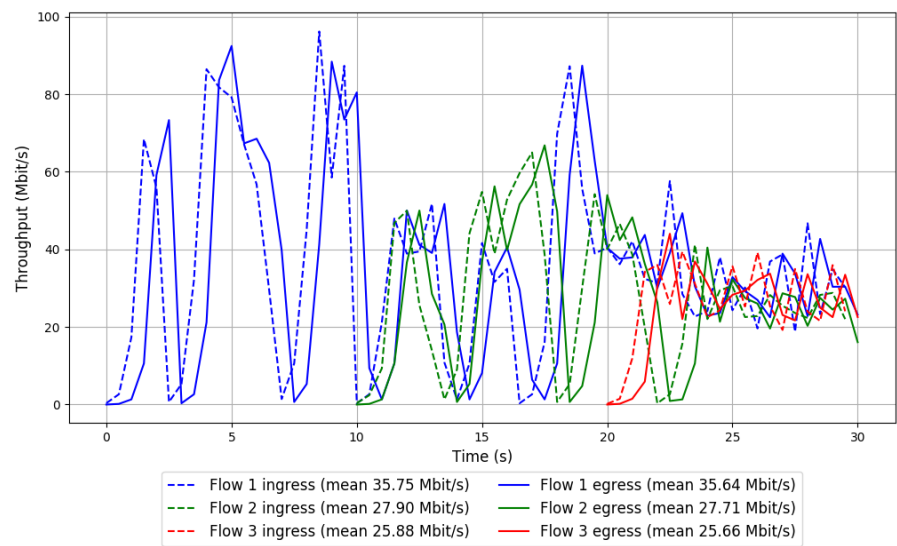
-- Flow 3:

Average throughput: 25.66 Mbit/s

95th percentile per-packet one-way delay: 116.246 ms

Loss rate: 1.98%

Run 1: Report of Verus — Data Link

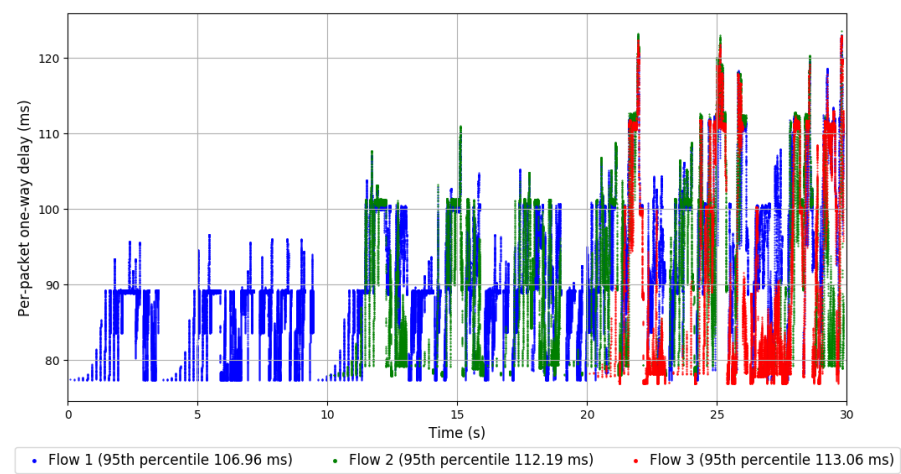
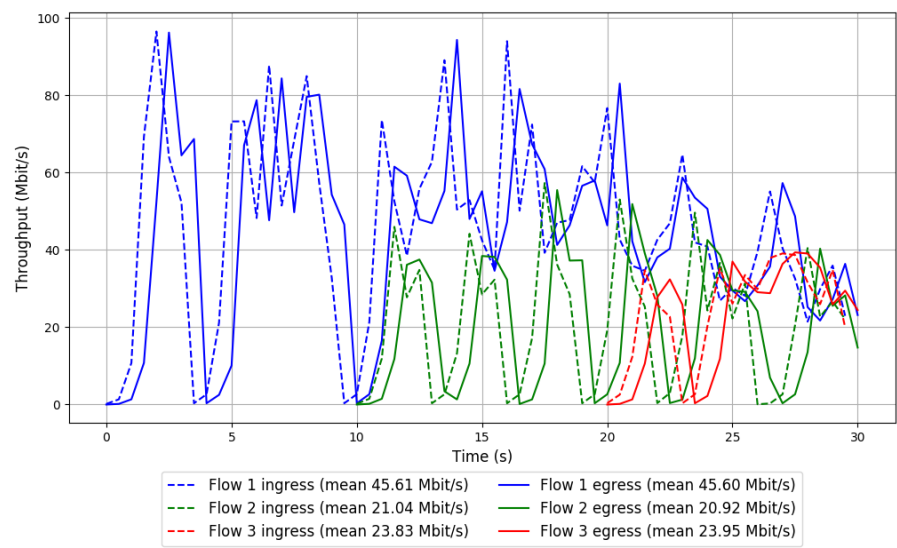


Run 2: Statistics of Verus

Start at: 2018-07-10 20:49:31
End at: 2018-07-10 20:50:01
Local clock offset: -1.506 ms
Remote clock offset: 16.213 ms

Below is generated by plot.py at 2018-07-11 00:07:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 67.36 Mbit/s
95th percentile per-packet one-way delay: 111.302 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 45.60 Mbit/s
95th percentile per-packet one-way delay: 106.964 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 20.92 Mbit/s
95th percentile per-packet one-way delay: 112.193 ms
Loss rate: 1.39%
-- Flow 3:
Average throughput: 23.95 Mbit/s
95th percentile per-packet one-way delay: 113.057 ms
Loss rate: 1.12%

Run 2: Report of Verus — Data Link

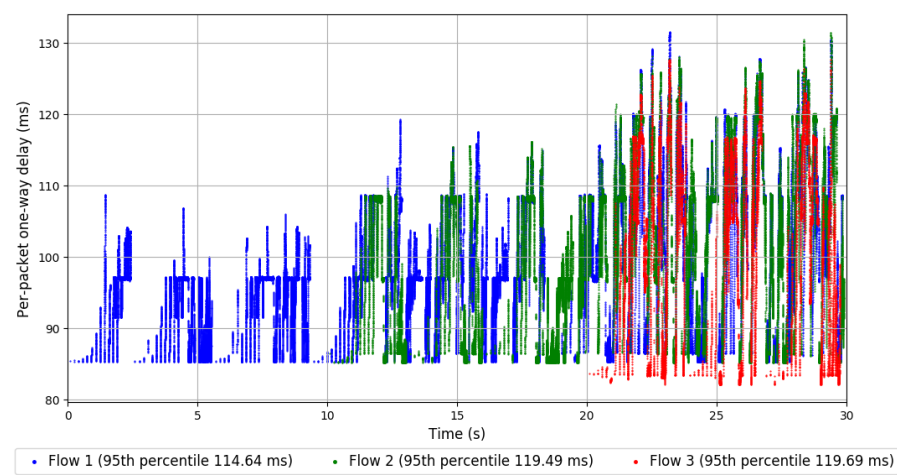
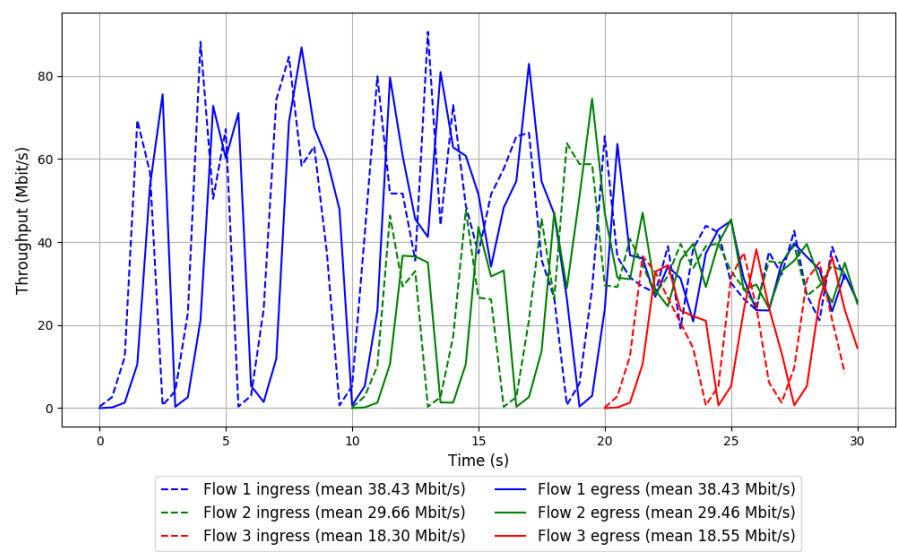


Run 3: Statistics of Verus

Start at: 2018-07-10 21:10:39
End at: 2018-07-10 21:11:09
Local clock offset: -1.476 ms
Remote clock offset: 10.572 ms

Below is generated by plot.py at 2018-07-11 00:07:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 63.93 Mbit/s
95th percentile per-packet one-way delay: 118.369 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 38.43 Mbit/s
95th percentile per-packet one-way delay: 114.642 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 29.46 Mbit/s
95th percentile per-packet one-way delay: 119.492 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 18.55 Mbit/s
95th percentile per-packet one-way delay: 119.692 ms
Loss rate: 0.33%

Run 3: Report of Verus — Data Link

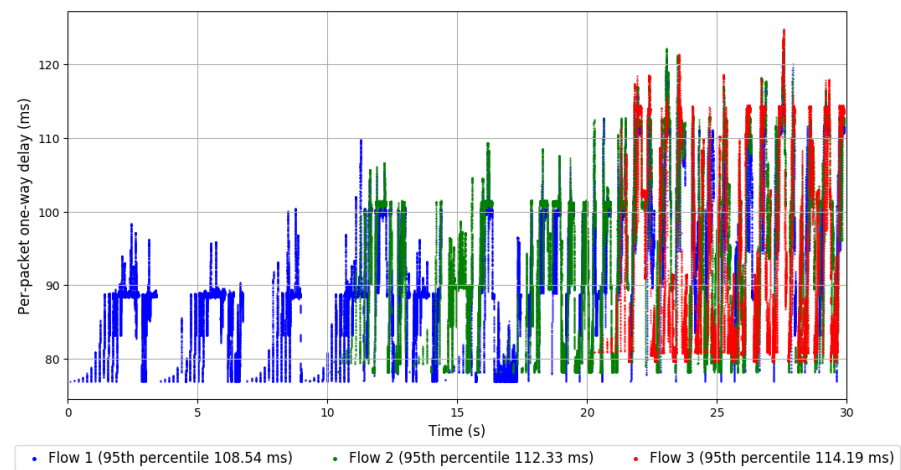
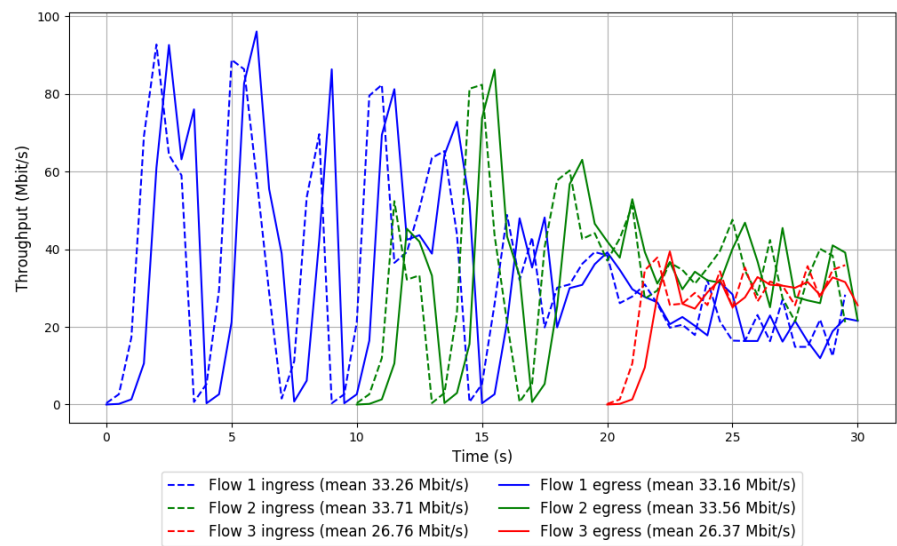


Run 4: Statistics of Verus

Start at: 2018-07-10 21:31:50
End at: 2018-07-10 21:32:20
Local clock offset: -1.426 ms
Remote clock offset: 15.493 ms

Below is generated by plot.py at 2018-07-11 00:07:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.11 Mbit/s
95th percentile per-packet one-way delay: 112.082 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 33.16 Mbit/s
95th percentile per-packet one-way delay: 108.536 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 33.56 Mbit/s
95th percentile per-packet one-way delay: 112.327 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 26.37 Mbit/s
95th percentile per-packet one-way delay: 114.191 ms
Loss rate: 3.08%

Run 4: Report of Verus — Data Link

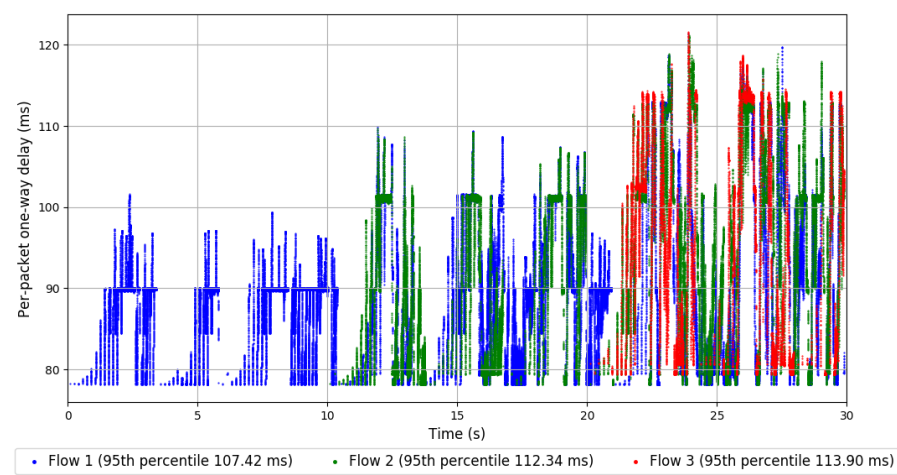
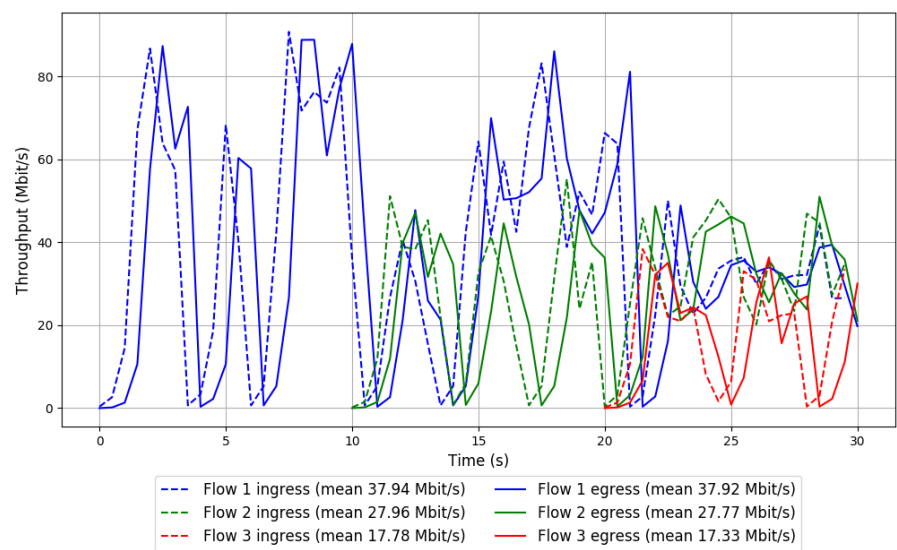


Run 5: Statistics of Verus

Start at: 2018-07-10 21:53:00
End at: 2018-07-10 21:53:30
Local clock offset: -1.338 ms
Remote clock offset: 15.821 ms

Below is generated by plot.py at 2018-07-11 00:08:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.04 Mbit/s
95th percentile per-packet one-way delay: 112.208 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 37.92 Mbit/s
95th percentile per-packet one-way delay: 107.417 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 27.77 Mbit/s
95th percentile per-packet one-way delay: 112.336 ms
Loss rate: 1.50%
-- Flow 3:
Average throughput: 17.33 Mbit/s
95th percentile per-packet one-way delay: 113.901 ms
Loss rate: 4.18%

Run 5: Report of Verus — Data Link

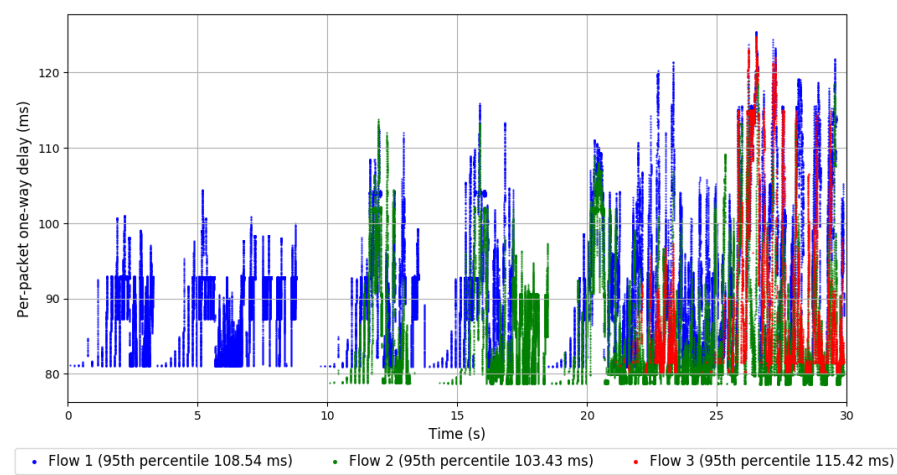
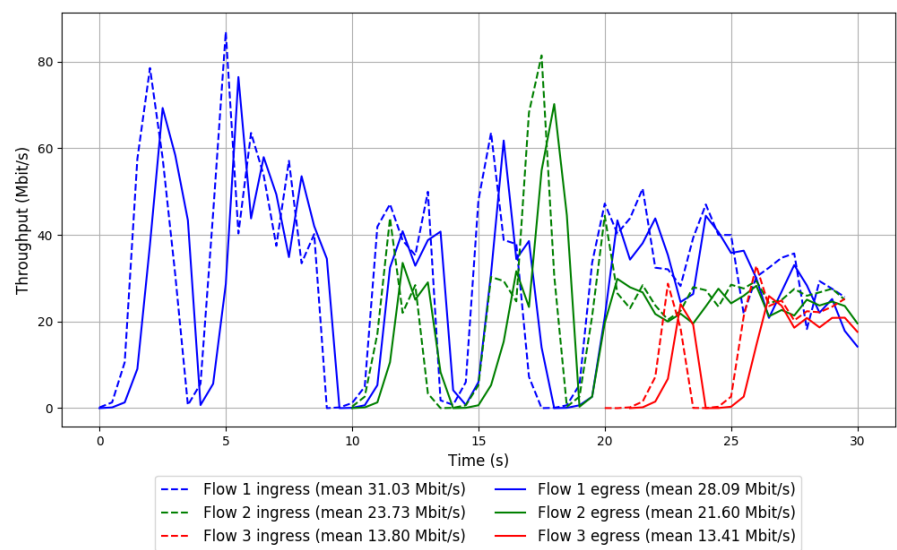


Run 6: Statistics of Verus

Start at: 2018-07-10 22:14:17
End at: 2018-07-10 22:14:47
Local clock offset: -1.236 ms
Remote clock offset: 10.944 ms

Below is generated by plot.py at 2018-07-11 00:08:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 46.40 Mbit/s
95th percentile per-packet one-way delay: 108.428 ms
Loss rate: 10.27%
-- Flow 1:
Average throughput: 28.09 Mbit/s
95th percentile per-packet one-way delay: 108.537 ms
Loss rate: 9.97%
-- Flow 2:
Average throughput: 21.60 Mbit/s
95th percentile per-packet one-way delay: 103.430 ms
Loss rate: 9.74%
-- Flow 3:
Average throughput: 13.41 Mbit/s
95th percentile per-packet one-way delay: 115.416 ms
Loss rate: 14.12%

Run 6: Report of Verus — Data Link

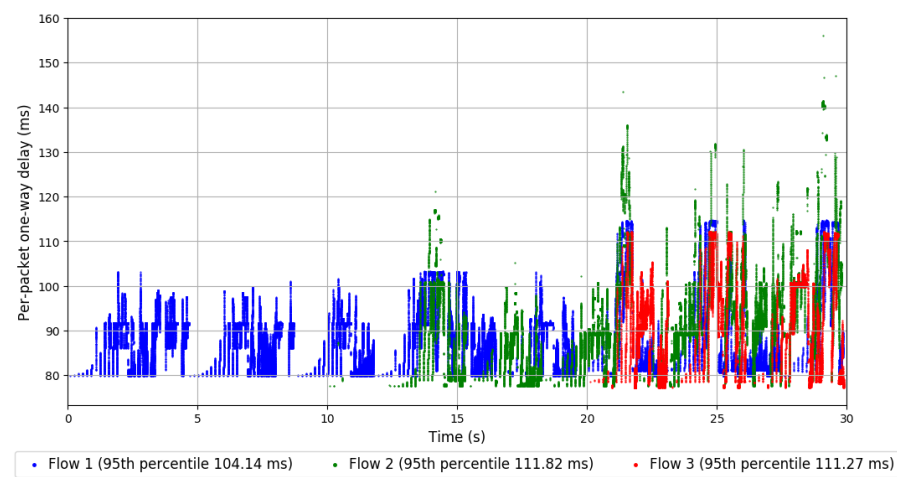
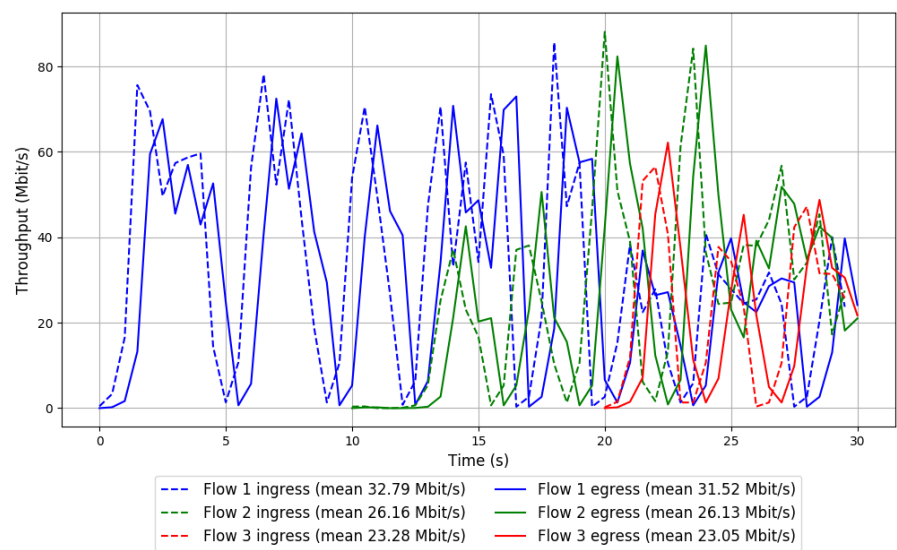


Run 7: Statistics of Verus

Start at: 2018-07-10 22:35:38
End at: 2018-07-10 22:36:08
Local clock offset: -1.039 ms
Remote clock offset: 6.68 ms

Below is generated by plot.py at 2018-07-11 00:08:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 56.34 Mbit/s
95th percentile per-packet one-way delay: 110.687 ms
Loss rate: 3.36%
-- Flow 1:
Average throughput: 31.52 Mbit/s
95th percentile per-packet one-way delay: 104.140 ms
Loss rate: 4.58%
-- Flow 2:
Average throughput: 26.13 Mbit/s
95th percentile per-packet one-way delay: 111.816 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 23.05 Mbit/s
95th percentile per-packet one-way delay: 111.271 ms
Loss rate: 2.69%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-07-10 22:56:48

End at: 2018-07-10 22:57:18

Local clock offset: -0.994 ms

Remote clock offset: 1.676 ms

Below is generated by plot.py at 2018-07-11 00:08:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.70 Mbit/s

95th percentile per-packet one-way delay: 116.806 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 35.27 Mbit/s

95th percentile per-packet one-way delay: 111.234 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 21.96 Mbit/s

95th percentile per-packet one-way delay: 119.565 ms

Loss rate: 1.18%

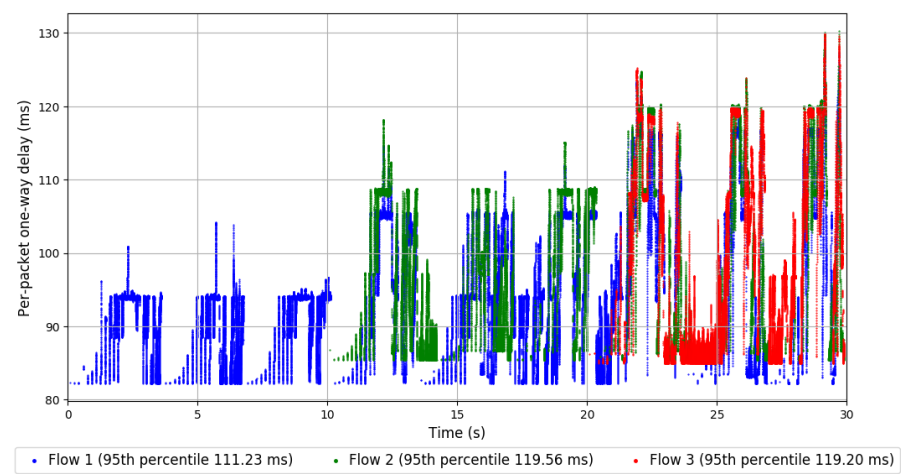
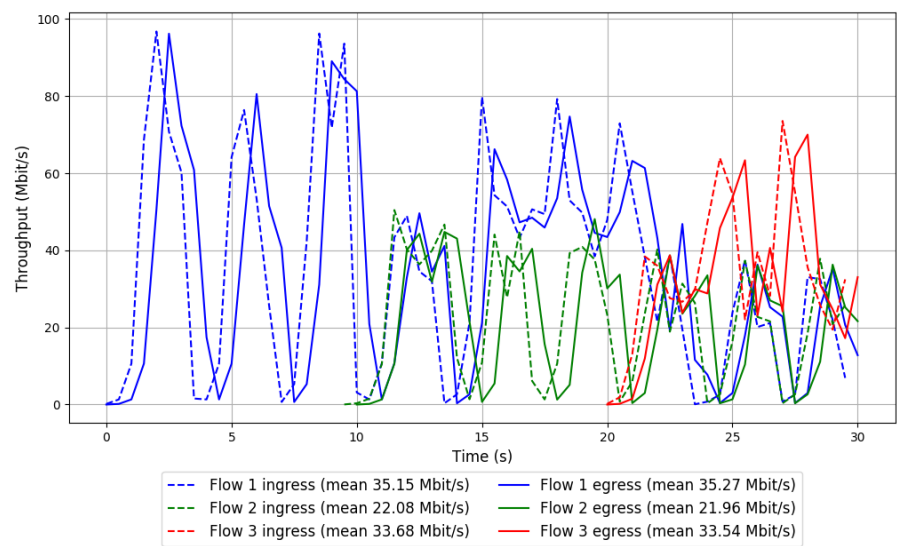
-- Flow 3:

Average throughput: 33.54 Mbit/s

95th percentile per-packet one-way delay: 119.204 ms

Loss rate: 2.07%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-07-10 23:18:16

End at: 2018-07-10 23:18:46

Local clock offset: -0.979 ms

Remote clock offset: 6.283 ms

Below is generated by plot.py at 2018-07-11 00:08:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.56 Mbit/s

95th percentile per-packet one-way delay: 109.930 ms

Loss rate: 12.54%

-- Flow 1:

Average throughput: 36.86 Mbit/s

95th percentile per-packet one-way delay: 108.469 ms

Loss rate: 11.91%

-- Flow 2:

Average throughput: 20.57 Mbit/s

95th percentile per-packet one-way delay: 111.422 ms

Loss rate: 13.80%

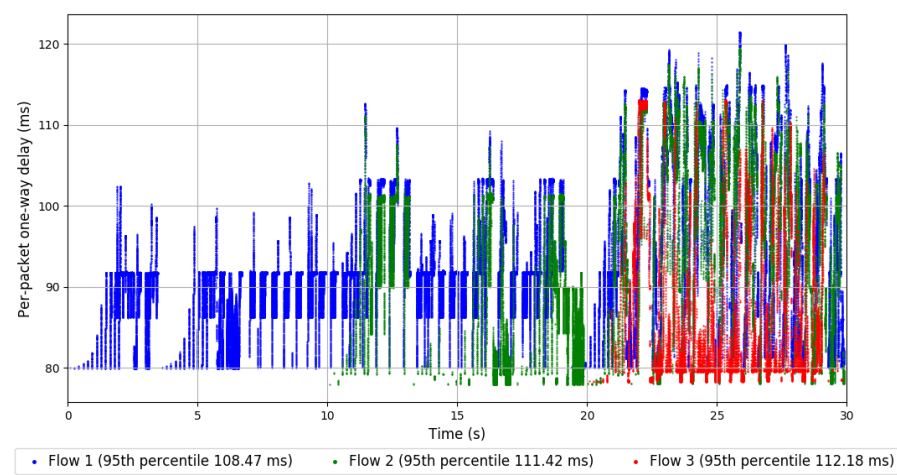
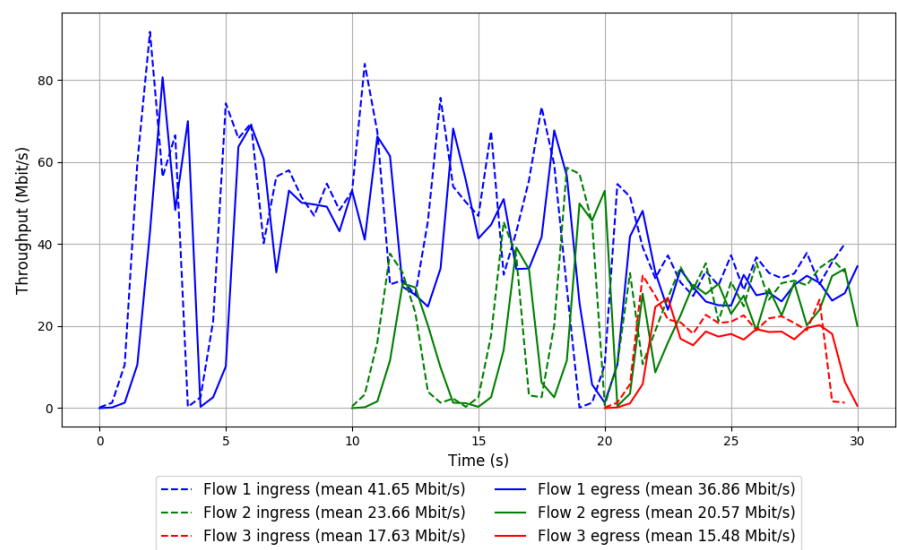
-- Flow 3:

Average throughput: 15.48 Mbit/s

95th percentile per-packet one-way delay: 112.183 ms

Loss rate: 13.65%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-07-10 23:39:33

End at: 2018-07-10 23:40:03

Local clock offset: -0.995 ms

Remote clock offset: 9.71 ms

Below is generated by plot.py at 2018-07-11 00:08:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.70 Mbit/s

95th percentile per-packet one-way delay: 110.492 ms

Loss rate: 12.30%

-- Flow 1:

Average throughput: 30.56 Mbit/s

95th percentile per-packet one-way delay: 100.418 ms

Loss rate: 11.37%

-- Flow 2:

Average throughput: 25.06 Mbit/s

95th percentile per-packet one-way delay: 112.713 ms

Loss rate: 12.93%

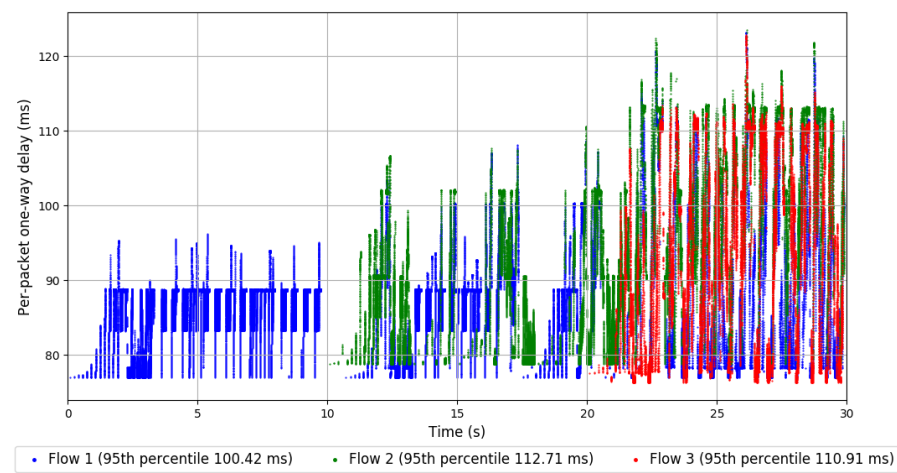
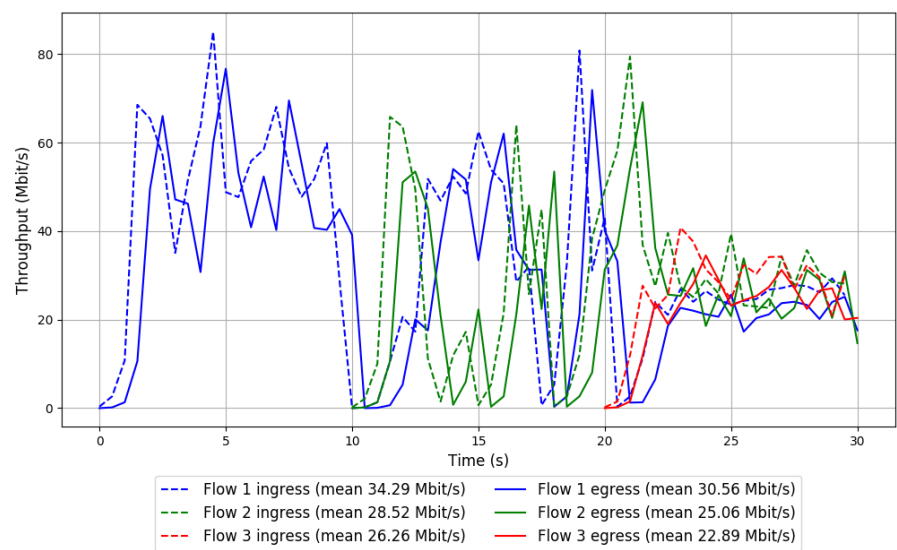
-- Flow 3:

Average throughput: 22.89 Mbit/s

95th percentile per-packet one-way delay: 110.905 ms

Loss rate: 14.54%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-07-10 20:23:28

End at: 2018-07-10 20:23:58

Local clock offset: -1.318 ms

Remote clock offset: 7.575 ms

Below is generated by plot.py at 2018-07-11 00:08:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.37 Mbit/s

95th percentile per-packet one-way delay: 88.811 ms

Loss rate: 6.75%

-- Flow 1:

Average throughput: 51.56 Mbit/s

95th percentile per-packet one-way delay: 88.840 ms

Loss rate: 6.85%

-- Flow 2:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 80.687 ms

Loss rate: 6.28%

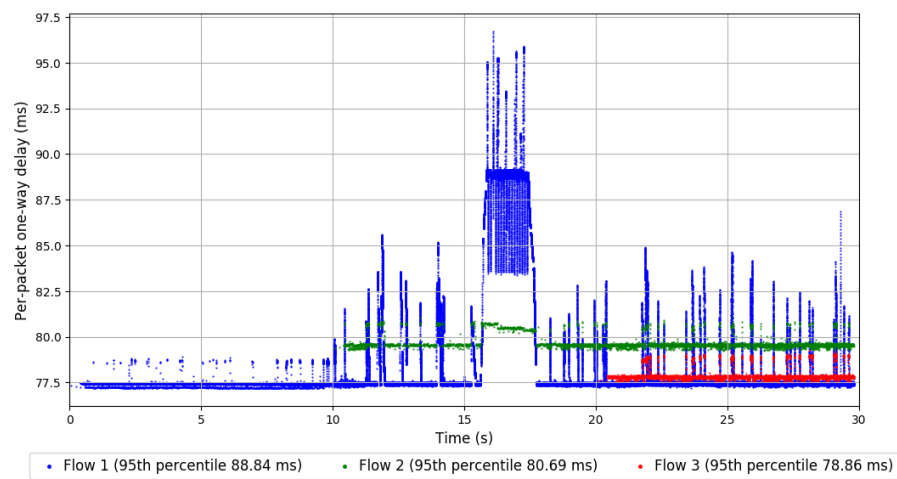
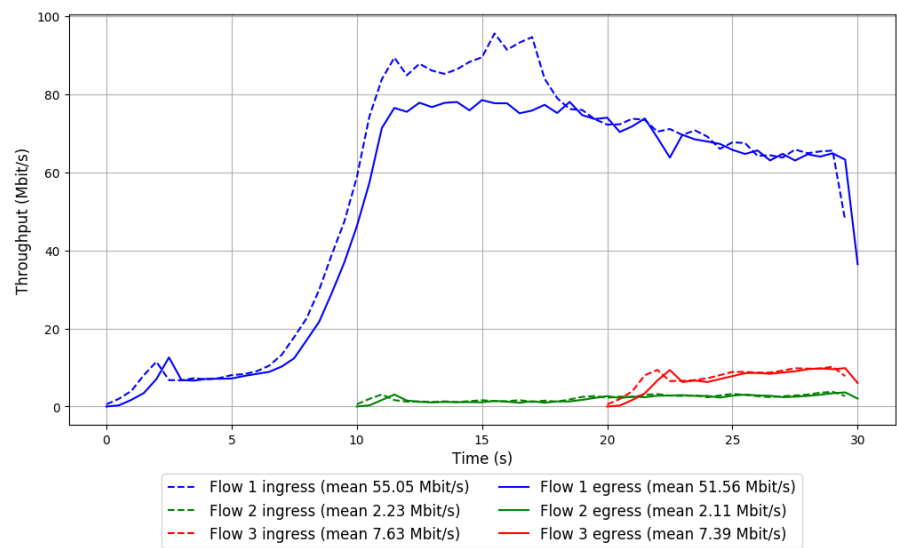
-- Flow 3:

Average throughput: 7.39 Mbit/s

95th percentile per-packet one-way delay: 78.857 ms

Loss rate: 4.72%

Run 1: Report of PCC-Vivace — Data Link

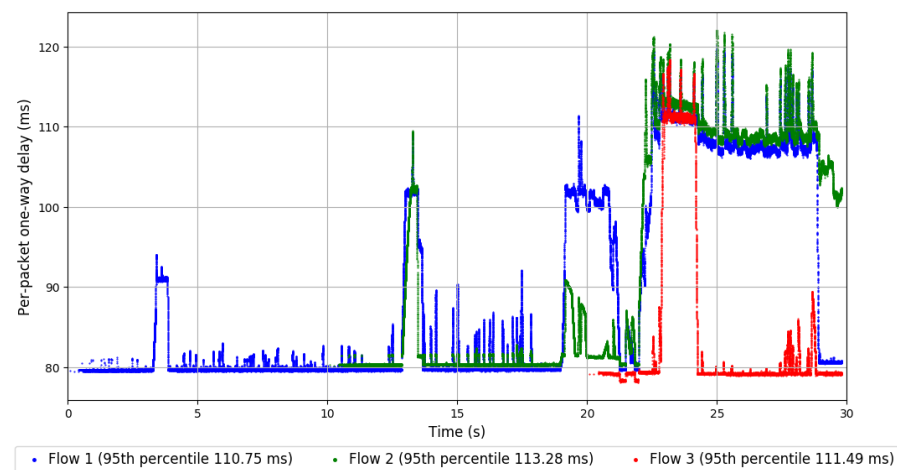
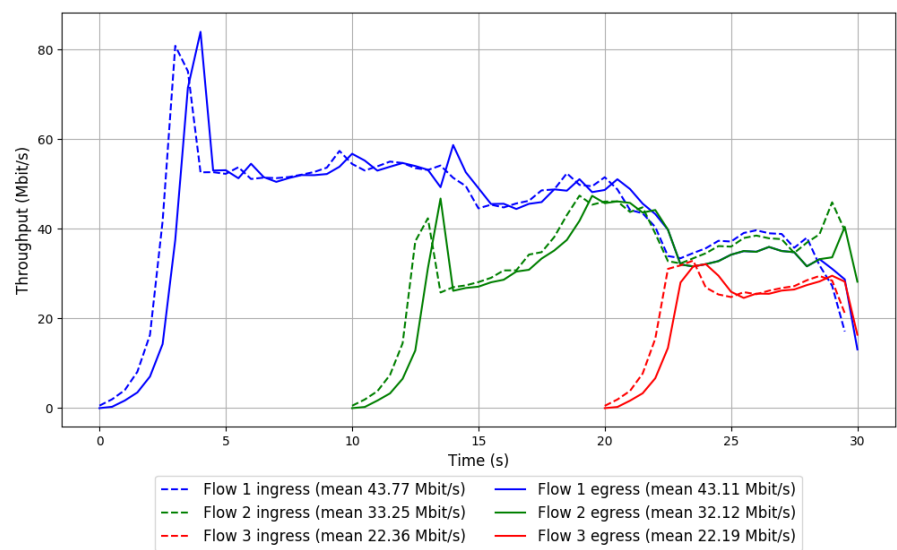


Run 2: Statistics of PCC-Vivace

Start at: 2018-07-10 20:44:38
End at: 2018-07-10 20:45:08
Local clock offset: -1.419 ms
Remote clock offset: 15.442 ms

Below is generated by plot.py at 2018-07-11 00:08:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 71.66 Mbit/s
95th percentile per-packet one-way delay: 111.821 ms
Loss rate: 2.75%
-- Flow 1:
Average throughput: 43.11 Mbit/s
95th percentile per-packet one-way delay: 110.745 ms
Loss rate: 2.07%
-- Flow 2:
Average throughput: 32.12 Mbit/s
95th percentile per-packet one-way delay: 113.275 ms
Loss rate: 4.20%
-- Flow 3:
Average throughput: 22.19 Mbit/s
95th percentile per-packet one-way delay: 111.494 ms
Loss rate: 2.43%

Run 2: Report of PCC-Vivace — Data Link

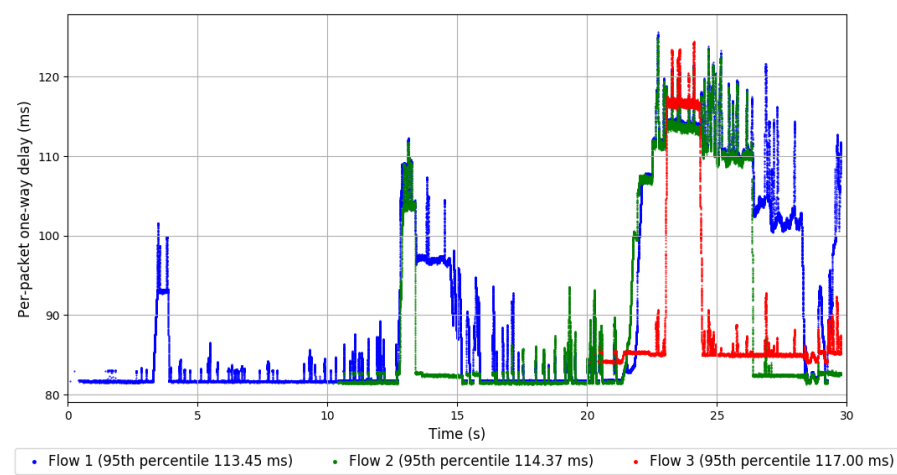
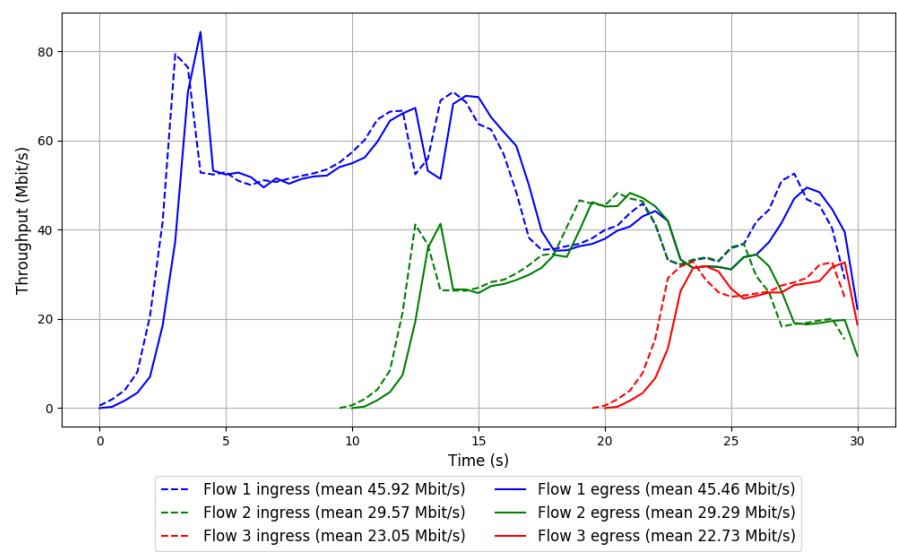


Run 3: Statistics of PCC-Vivace

Start at: 2018-07-10 21:05:46
End at: 2018-07-10 21:06:16
Local clock offset: -1.444 ms
Remote clock offset: 12.125 ms

Below is generated by plot.py at 2018-07-11 00:08:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.33 Mbit/s
95th percentile per-packet one-way delay: 114.317 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 45.46 Mbit/s
95th percentile per-packet one-way delay: 113.452 ms
Loss rate: 1.57%
-- Flow 2:
Average throughput: 29.29 Mbit/s
95th percentile per-packet one-way delay: 114.371 ms
Loss rate: 1.76%
-- Flow 3:
Average throughput: 22.73 Mbit/s
95th percentile per-packet one-way delay: 117.004 ms
Loss rate: 3.07%

Run 3: Report of PCC-Vivace — Data Link

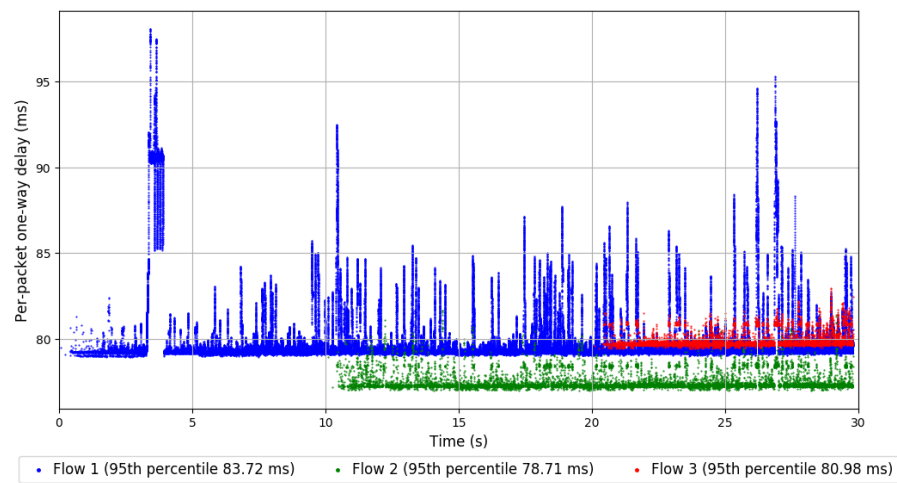
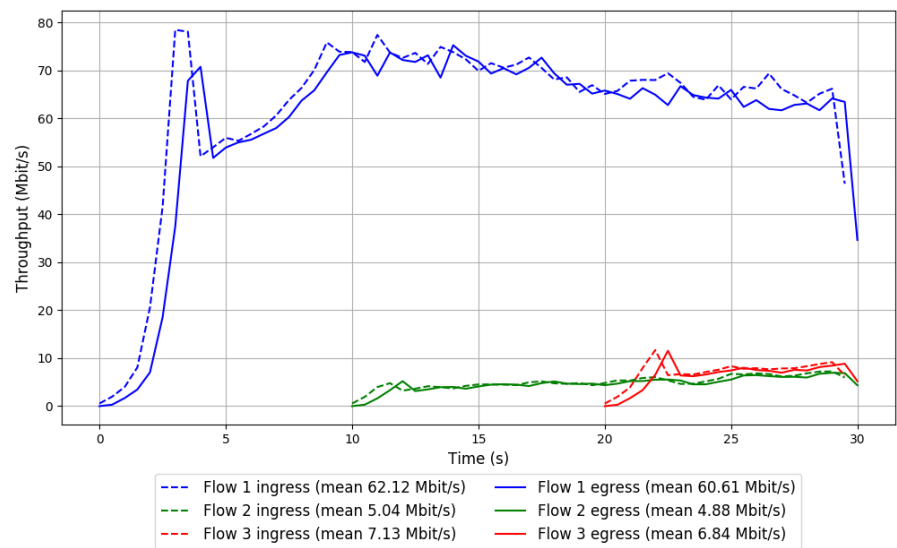


Run 4: Statistics of PCC-Vivace

Start at: 2018-07-10 21:26:57
End at: 2018-07-10 21:27:27
Local clock offset: -1.431 ms
Remote clock offset: 15.301 ms

Below is generated by plot.py at 2018-07-11 00:08:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.07 Mbit/s
95th percentile per-packet one-way delay: 83.413 ms
Loss rate: 3.12%
-- Flow 1:
Average throughput: 60.61 Mbit/s
95th percentile per-packet one-way delay: 83.725 ms
Loss rate: 2.98%
-- Flow 2:
Average throughput: 4.88 Mbit/s
95th percentile per-packet one-way delay: 78.713 ms
Loss rate: 4.04%
-- Flow 3:
Average throughput: 6.84 Mbit/s
95th percentile per-packet one-way delay: 80.985 ms
Loss rate: 5.66%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-07-10 21:48:06

End at: 2018-07-10 21:48:36

Local clock offset: -1.335 ms

Remote clock offset: 10.66 ms

Below is generated by plot.py at 2018-07-11 00:09:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.19 Mbit/s

95th percentile per-packet one-way delay: 115.664 ms

Loss rate: 3.71%

-- Flow 1:

Average throughput: 53.66 Mbit/s

95th percentile per-packet one-way delay: 113.770 ms

Loss rate: 2.92%

-- Flow 2:

Average throughput: 22.37 Mbit/s

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

Loss rate: 7.04%

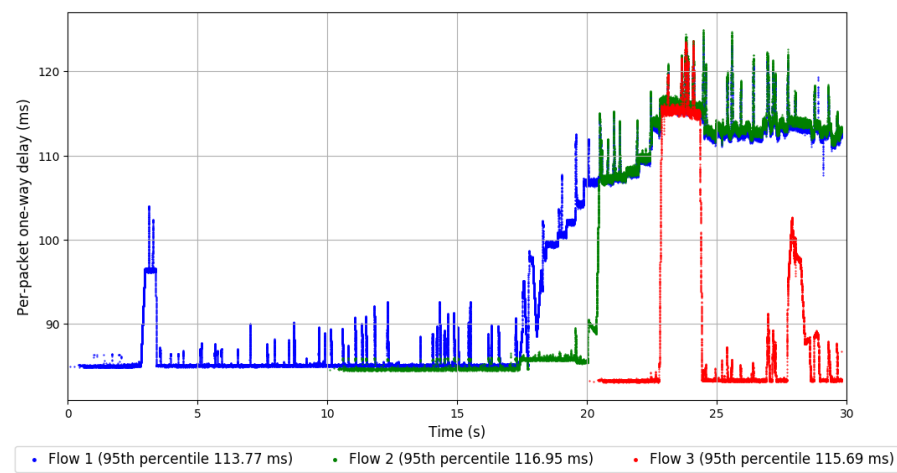
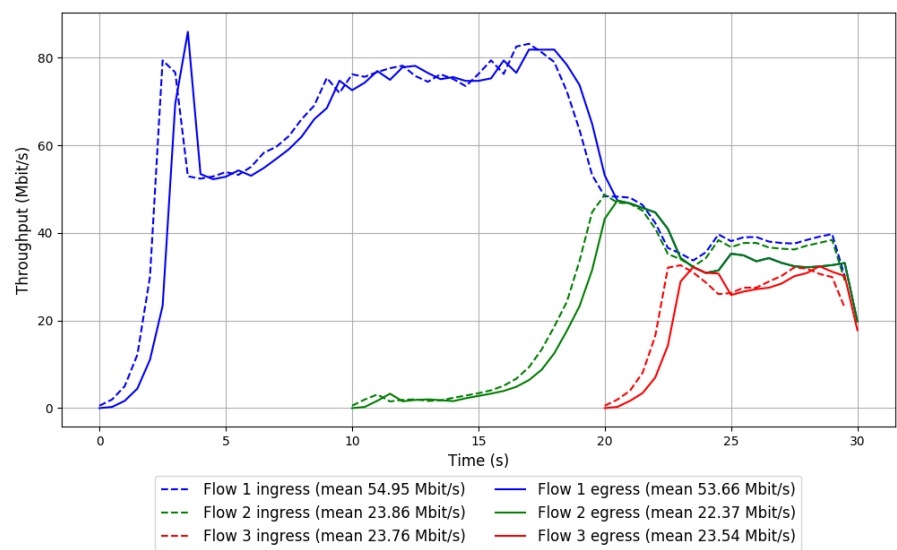
-- Flow 3:

Average throughput: 23.54 Mbit/s

95th percentile per-packet one-way delay: 115.685 ms

Loss rate: 2.53%

Run 5: Report of PCC-Vivace — Data Link

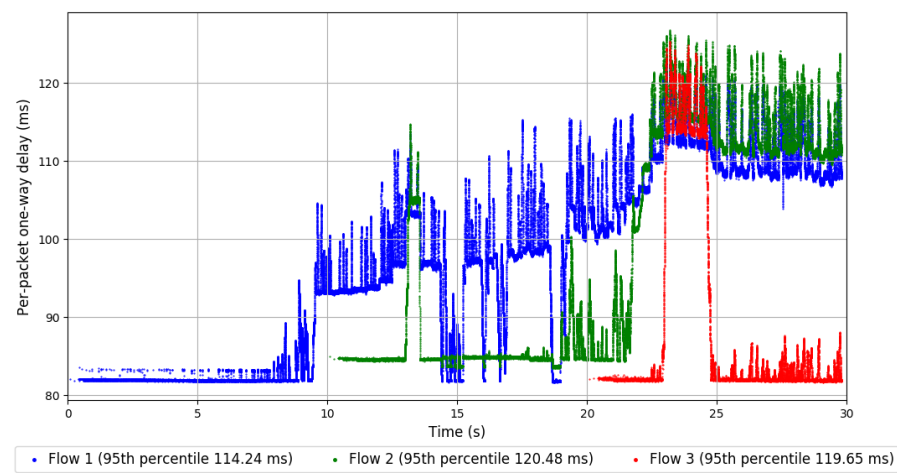
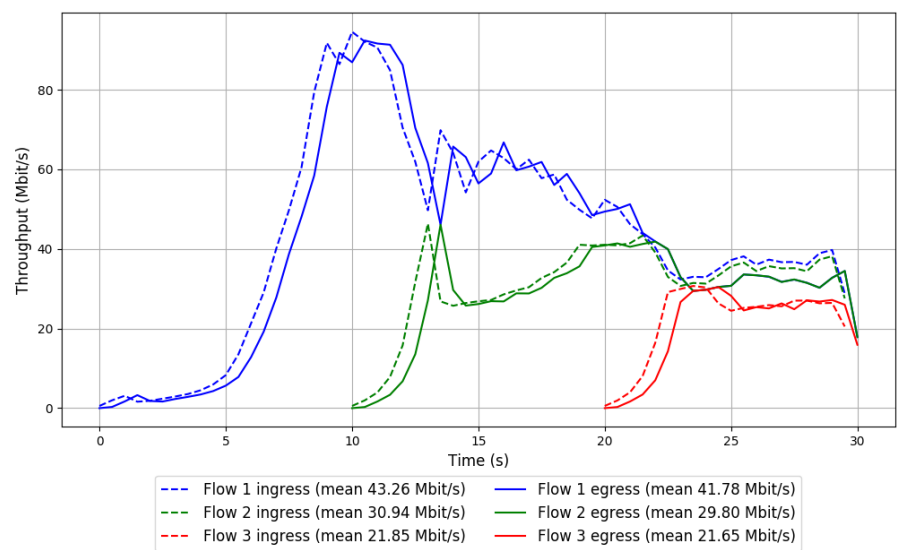


Run 6: Statistics of PCC-Vivace

Start at: 2018-07-10 22:09:23
End at: 2018-07-10 22:09:53
Local clock offset: -1.17 ms
Remote clock offset: 11.294 ms

Below is generated by plot.py at 2018-07-11 00:09:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.62 Mbit/s
95th percentile per-packet one-way delay: 117.438 ms
Loss rate: 4.00%
-- Flow 1:
Average throughput: 41.78 Mbit/s
95th percentile per-packet one-way delay: 114.240 ms
Loss rate: 3.98%
-- Flow 2:
Average throughput: 29.80 Mbit/s
95th percentile per-packet one-way delay: 120.482 ms
Loss rate: 4.54%
-- Flow 3:
Average throughput: 21.65 Mbit/s
95th percentile per-packet one-way delay: 119.650 ms
Loss rate: 2.57%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-07-10 22:30:37

End at: 2018-07-10 22:31:07

Local clock offset: -1.131 ms

Remote clock offset: 7.268 ms

Below is generated by plot.py at 2018-07-11 00:09:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.03 Mbit/s

95th percentile per-packet one-way delay: 108.454 ms

Loss rate: 3.09%

-- Flow 1:

Average throughput: 48.04 Mbit/s

95th percentile per-packet one-way delay: 103.988 ms

Loss rate: 3.64%

-- Flow 2:

Average throughput: 29.91 Mbit/s

95th percentile per-packet one-way delay: 112.807 ms

Loss rate: 1.54%

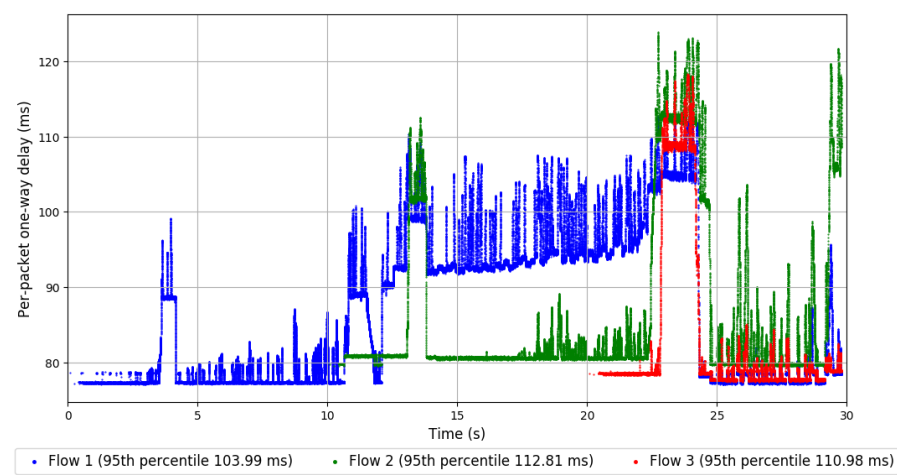
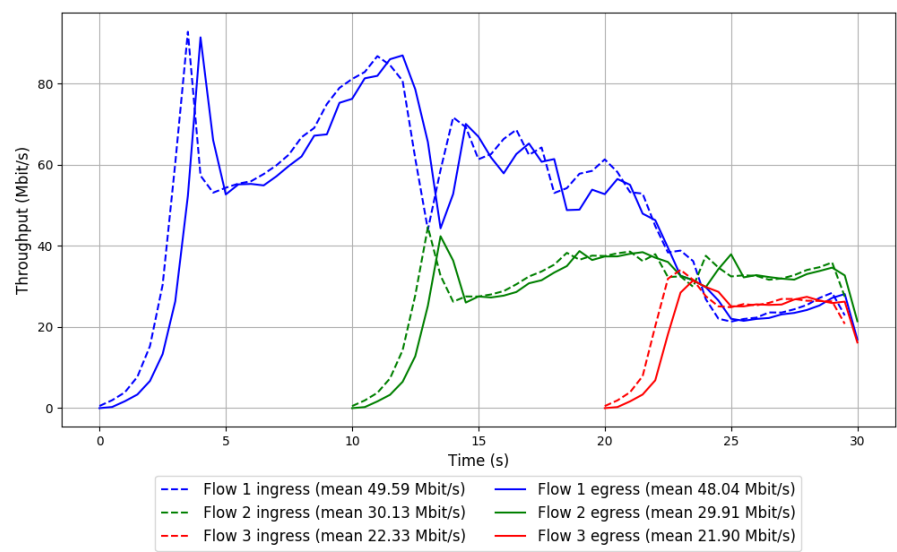
-- Flow 3:

Average throughput: 21.90 Mbit/s

95th percentile per-packet one-way delay: 110.976 ms

Loss rate: 3.56%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-10 22:51:55

End at: 2018-07-10 22:52:25

Local clock offset: -1.017 ms

Remote clock offset: 1.669 ms

Below is generated by plot.py at 2018-07-11 00:09:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.18 Mbit/s

95th percentile per-packet one-way delay: 112.511 ms

Loss rate: 2.16%

-- Flow 1:

Average throughput: 51.26 Mbit/s

95th percentile per-packet one-way delay: 109.253 ms

Loss rate: 1.75%

-- Flow 2:

Average throughput: 27.56 Mbit/s

95th percentile per-packet one-way delay: 115.702 ms

Loss rate: 2.95%

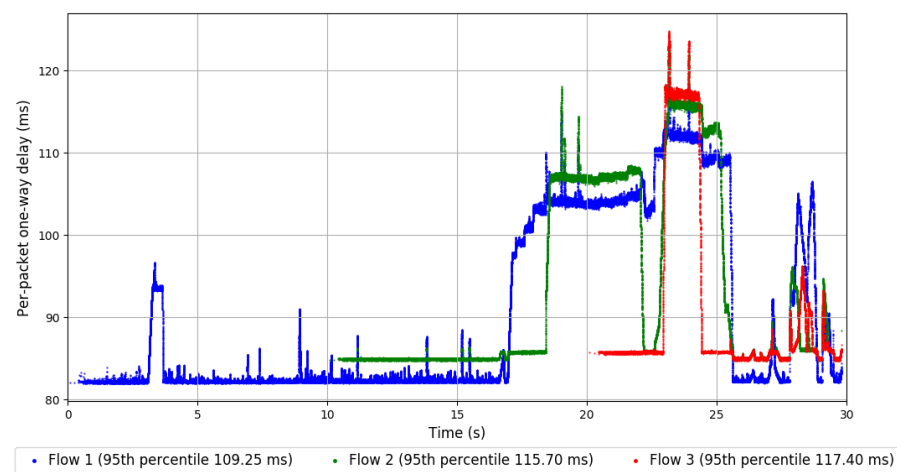
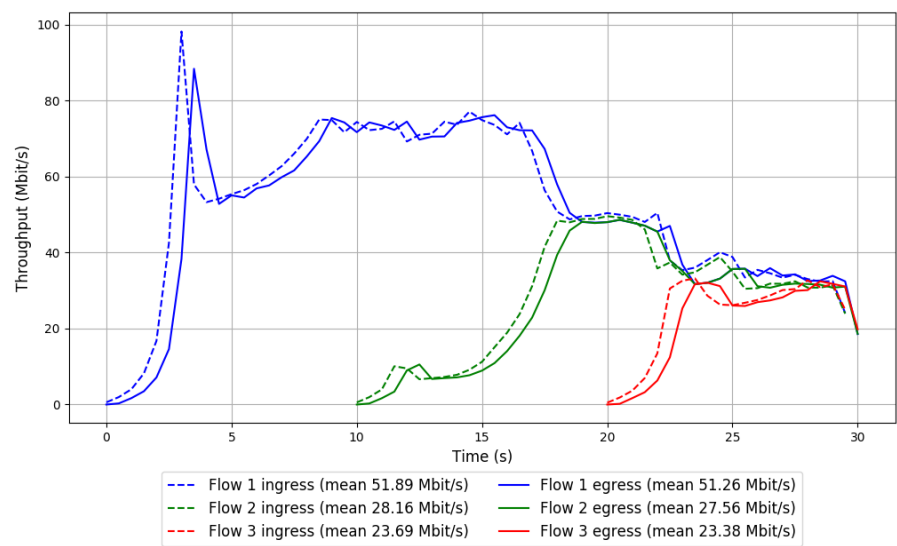
-- Flow 3:

Average throughput: 23.38 Mbit/s

95th percentile per-packet one-way delay: 117.397 ms

Loss rate: 2.95%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-10 23:13:23

End at: 2018-07-10 23:13:53

Local clock offset: -1.034 ms

Remote clock offset: 0.948 ms

Below is generated by plot.py at 2018-07-11 00:09:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.93 Mbit/s

95th percentile per-packet one-way delay: 116.044 ms

Loss rate: 1.68%

-- Flow 1:

Average throughput: 46.00 Mbit/s

95th percentile per-packet one-way delay: 114.386 ms

Loss rate: 1.32%

-- Flow 2:

Average throughput: 32.45 Mbit/s

95th percentile per-packet one-way delay: 115.592 ms

Loss rate: 2.23%

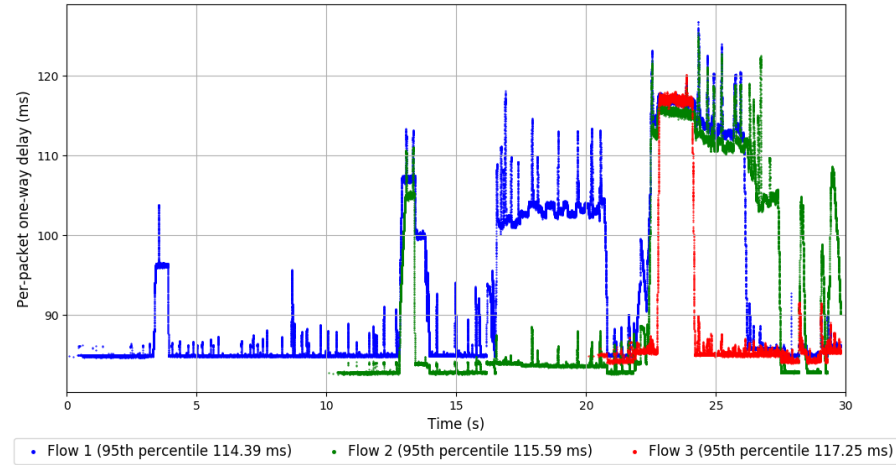
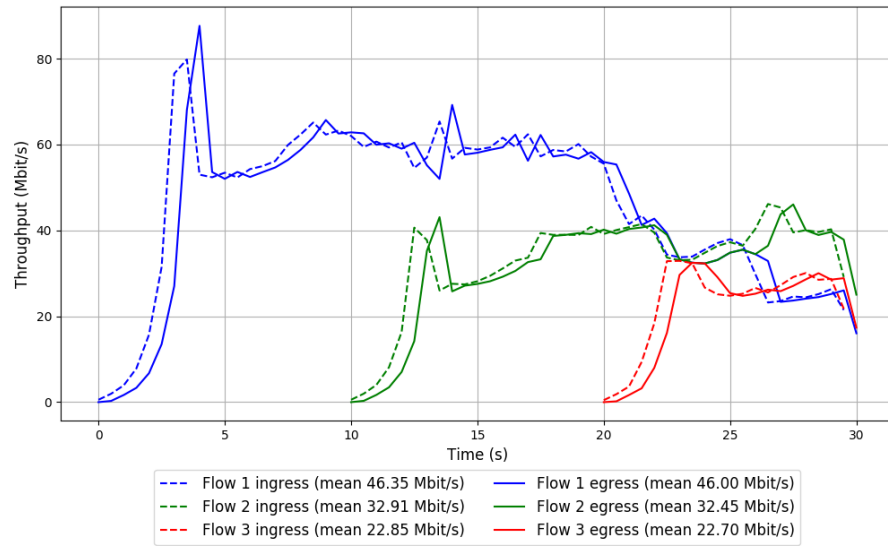
-- Flow 3:

Average throughput: 22.70 Mbit/s

95th percentile per-packet one-way delay: 117.248 ms

Loss rate: 2.34%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-10 23:34:41

End at: 2018-07-10 23:35:11

Local clock offset: -0.996 ms

Remote clock offset: 3.453 ms

Below is generated by plot.py at 2018-07-11 00:09:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.08 Mbit/s

95th percentile per-packet one-way delay: 105.133 ms

Loss rate: 2.37%

-- Flow 1:

Average throughput: 26.23 Mbit/s

95th percentile per-packet one-way delay: 97.355 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 47.04 Mbit/s

95th percentile per-packet one-way delay: 105.402 ms

Loss rate: 3.38%

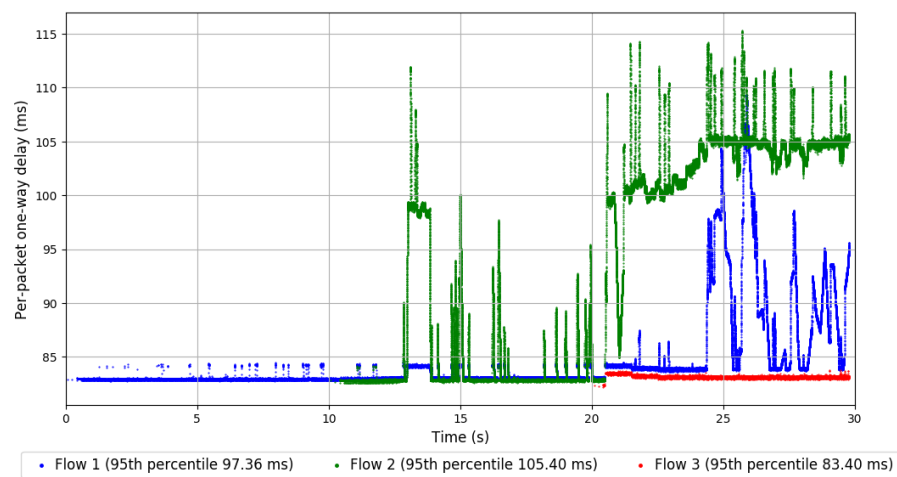
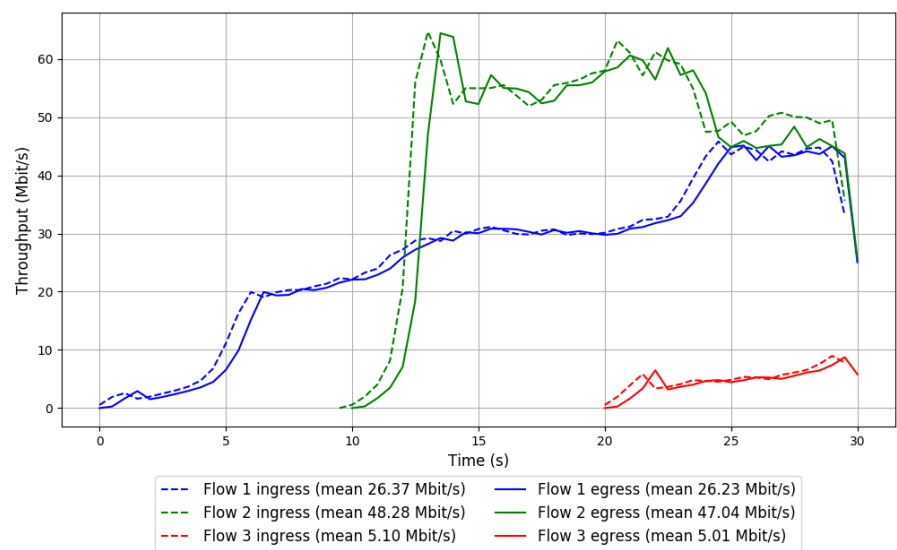
-- Flow 3:

Average throughput: 5.01 Mbit/s

95th percentile per-packet one-way delay: 83.399 ms

Loss rate: 3.57%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-07-10 20:29:35

End at: 2018-07-10 20:30:05

Local clock offset: -1.334 ms

Remote clock offset: 6.368 ms

Below is generated by plot.py at 2018-07-11 00:09:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.06 Mbit/s

95th percentile per-packet one-way delay: 84.624 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 1.70 Mbit/s

95th percentile per-packet one-way delay: 83.119 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 0.99 Mbit/s

95th percentile per-packet one-way delay: 85.427 ms

Loss rate: 0.70%

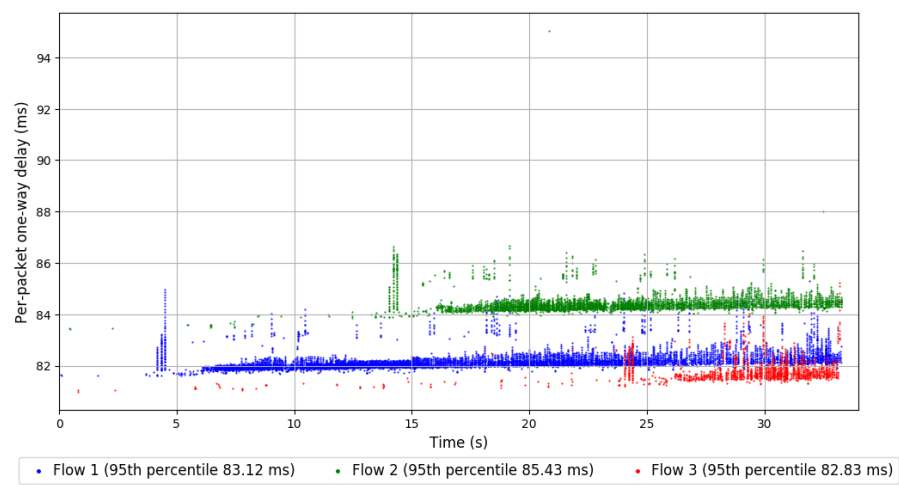
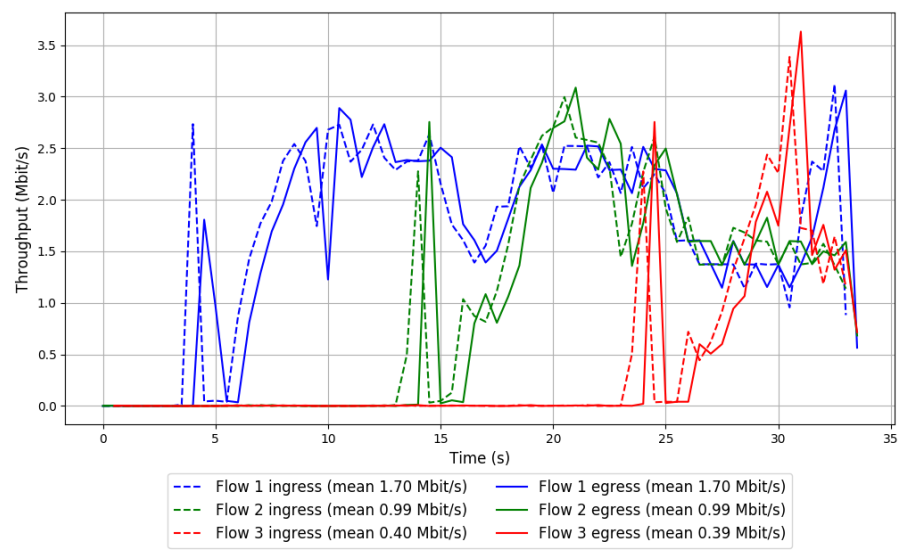
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 82.829 ms

Loss rate: 2.59%

Run 1: Report of WebRTC media — Data Link

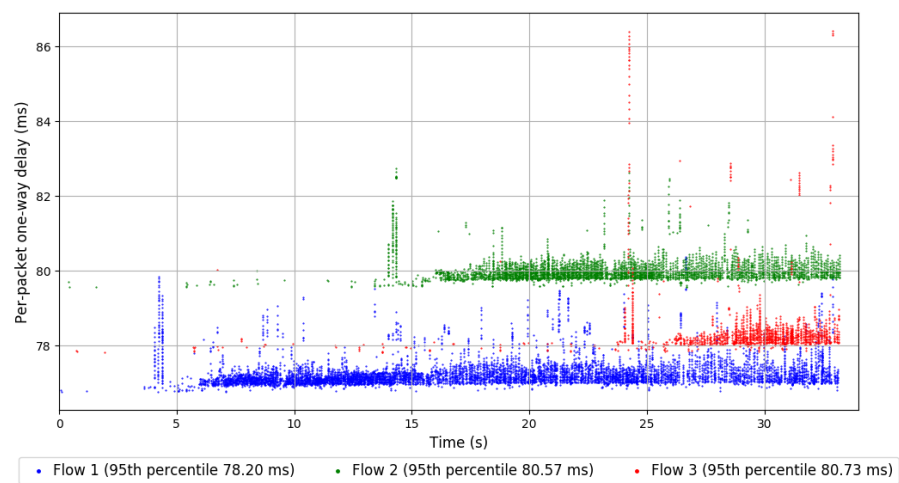
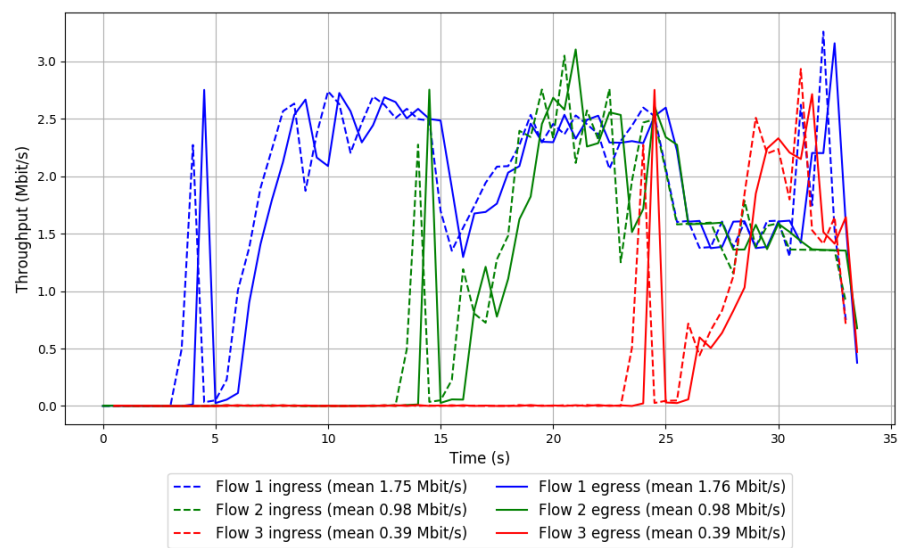


Run 2: Statistics of WebRTC media

Start at: 2018-07-10 20:50:47
End at: 2018-07-10 20:51:17
Local clock offset: -1.444 ms
Remote clock offset: 16.363 ms

Below is generated by plot.py at 2018-07-11 00:09:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.10 Mbit/s
95th percentile per-packet one-way delay: 80.242 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 1.76 Mbit/s
95th percentile per-packet one-way delay: 78.203 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 80.572 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 80.727 ms
Loss rate: 1.81%

Run 2: Report of WebRTC media — Data Link

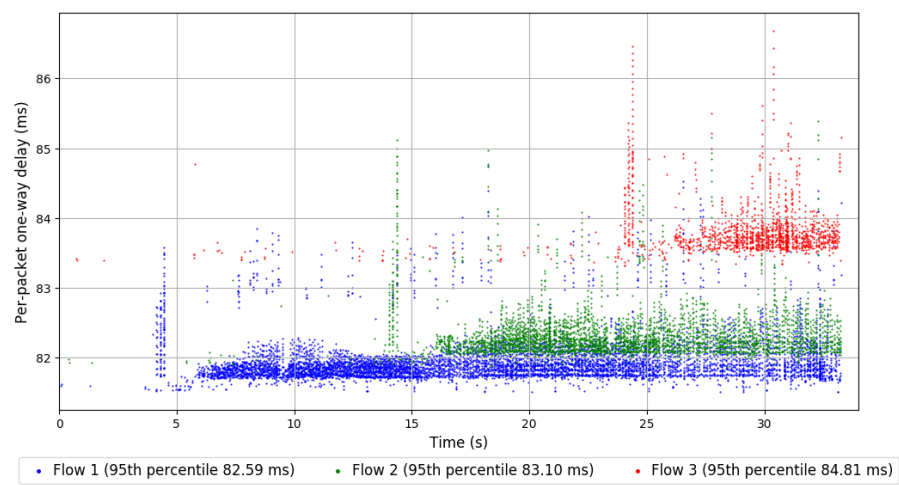
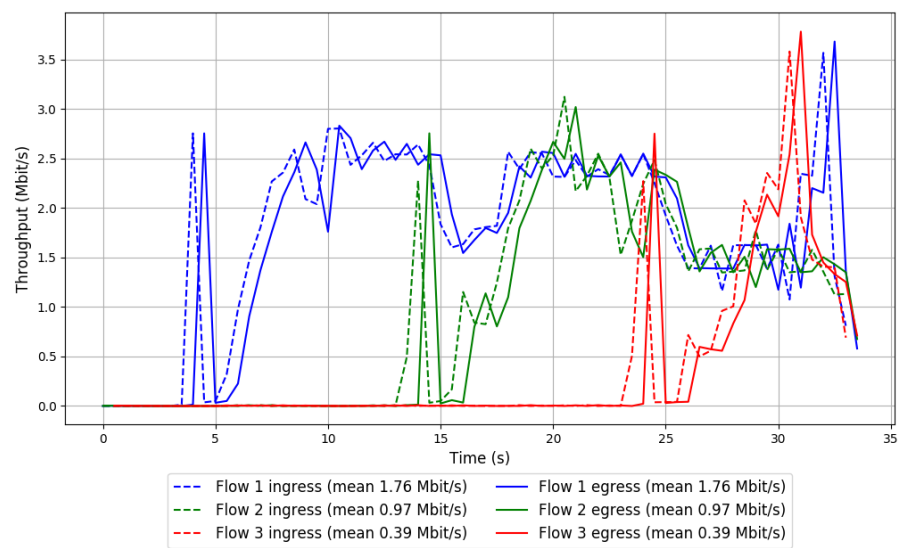


Run 3: Statistics of WebRTC media

Start at: 2018-07-10 21:11:54
End at: 2018-07-10 21:12:24
Local clock offset: -1.545 ms
Remote clock offset: 11.437 ms

Below is generated by plot.py at 2018-07-11 00:09:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.10 Mbit/s
95th percentile per-packet one-way delay: 83.821 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 1.76 Mbit/s
95th percentile per-packet one-way delay: 82.590 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 0.97 Mbit/s
95th percentile per-packet one-way delay: 83.102 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 84.809 ms
Loss rate: 1.71%

Run 3: Report of WebRTC media — Data Link

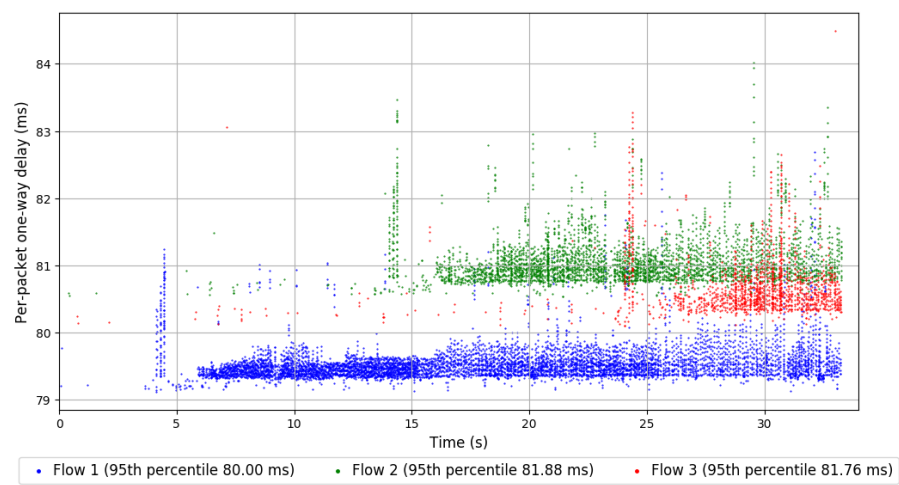
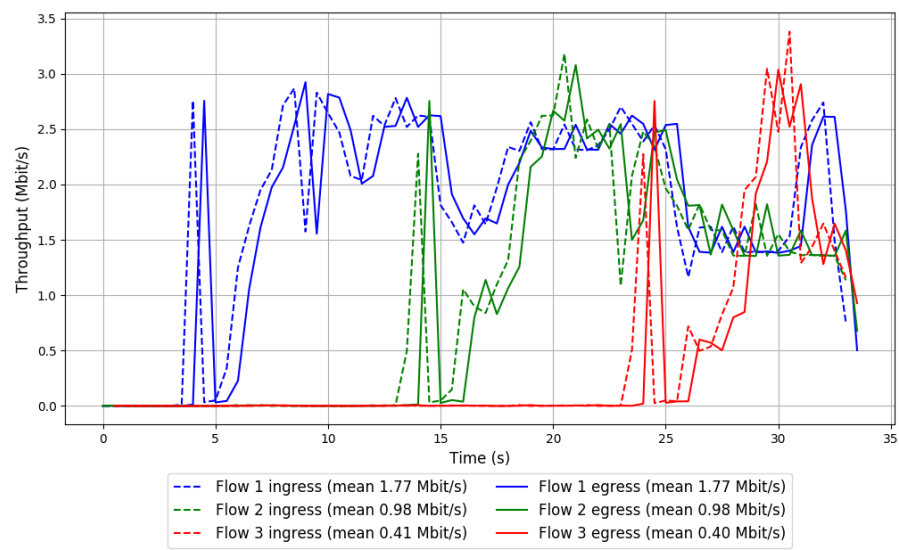


Run 4: Statistics of WebRTC media

Start at: 2018-07-10 21:33:05
End at: 2018-07-10 21:33:35
Local clock offset: -1.425 ms
Remote clock offset: 14.318 ms

Below is generated by plot.py at 2018-07-11 00:09:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.13 Mbit/s
95th percentile per-packet one-way delay: 81.457 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 1.77 Mbit/s
95th percentile per-packet one-way delay: 79.999 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 81.883 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 81.759 ms
Loss rate: 1.75%

Run 4: Report of WebRTC media — Data Link

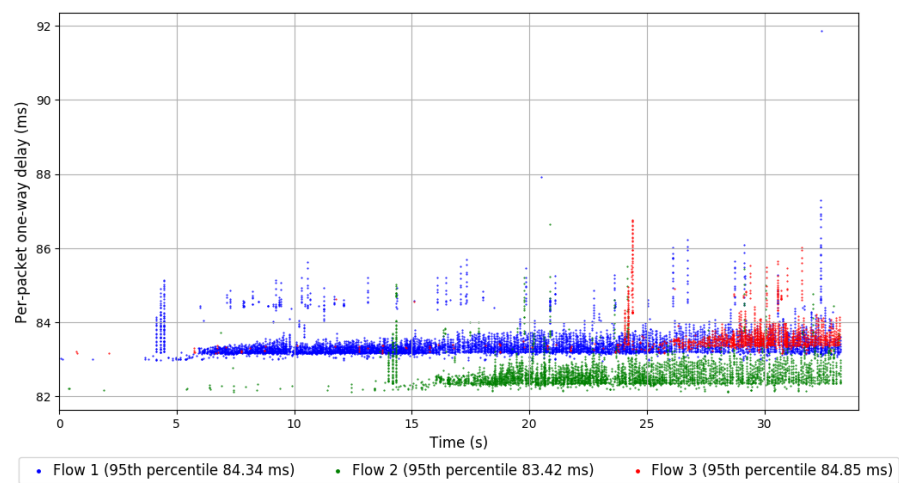
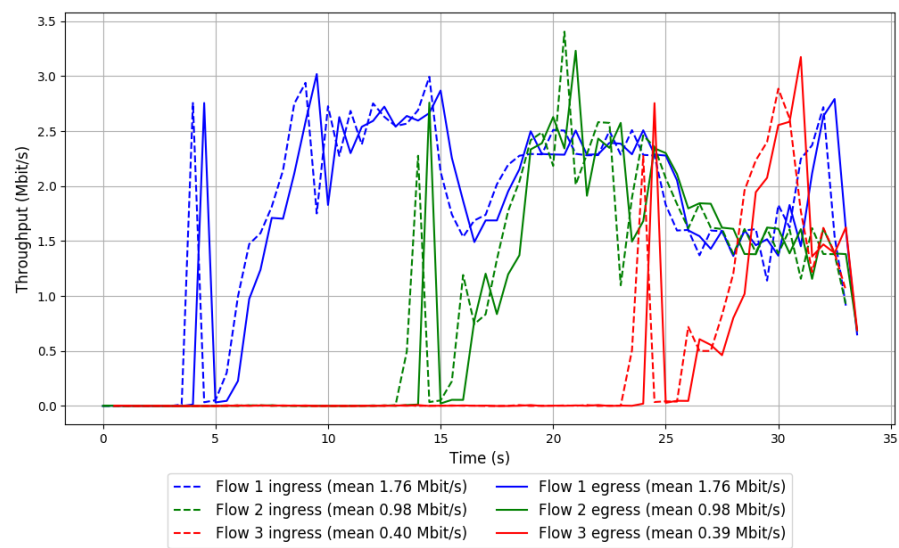


Run 5: Statistics of WebRTC media

Start at: 2018-07-10 21:54:15
End at: 2018-07-10 21:54:45
Local clock offset: -1.271 ms
Remote clock offset: 10.706 ms

Below is generated by plot.py at 2018-07-11 00:09:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.11 Mbit/s
95th percentile per-packet one-way delay: 84.151 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 1.76 Mbit/s
95th percentile per-packet one-way delay: 84.340 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 83.418 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 84.848 ms
Loss rate: 2.28%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-10 22:15:36

End at: 2018-07-10 22:16:06

Local clock offset: -1.195 ms

Remote clock offset: 7.458 ms

Below is generated by plot.py at 2018-07-11 00:09:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.04 Mbit/s

95th percentile per-packet one-way delay: 84.645 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 84.609 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 0.96 Mbit/s

95th percentile per-packet one-way delay: 84.997 ms

Loss rate: 0.72%

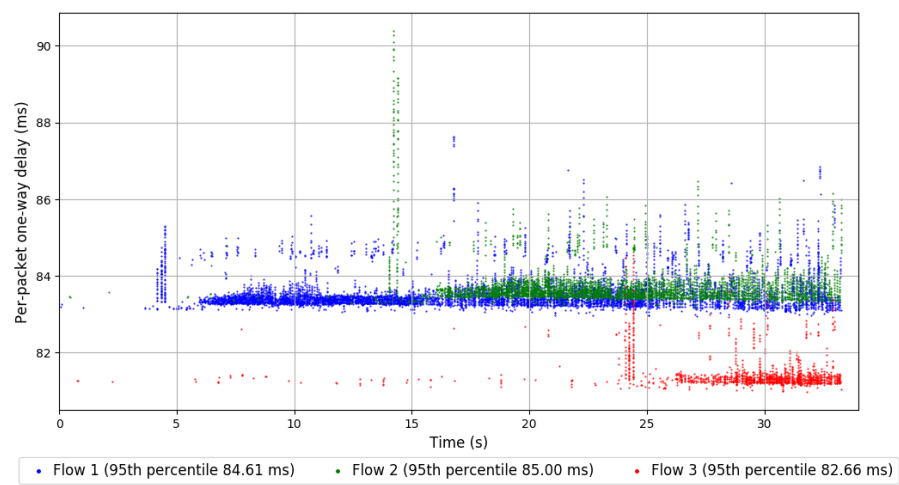
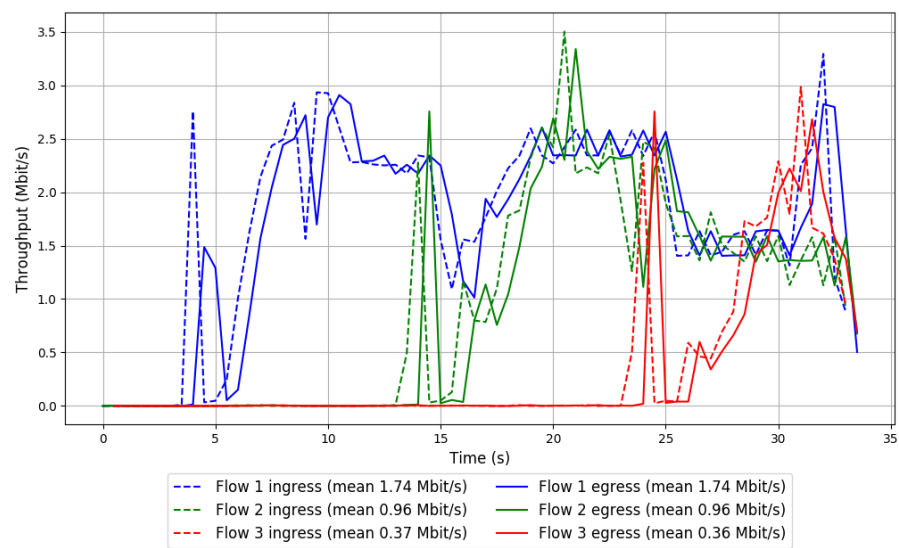
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 82.658 ms

Loss rate: 2.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-07-10 22:36:54

End at: 2018-07-10 22:37:24

Local clock offset: -1.03 ms

Remote clock offset: 1.547 ms

Below is generated by plot.py at 2018-07-11 00:09:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.04 Mbit/s

95th percentile per-packet one-way delay: 85.772 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 1.70 Mbit/s

95th percentile per-packet one-way delay: 86.026 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 85.458 ms

Loss rate: 0.71%

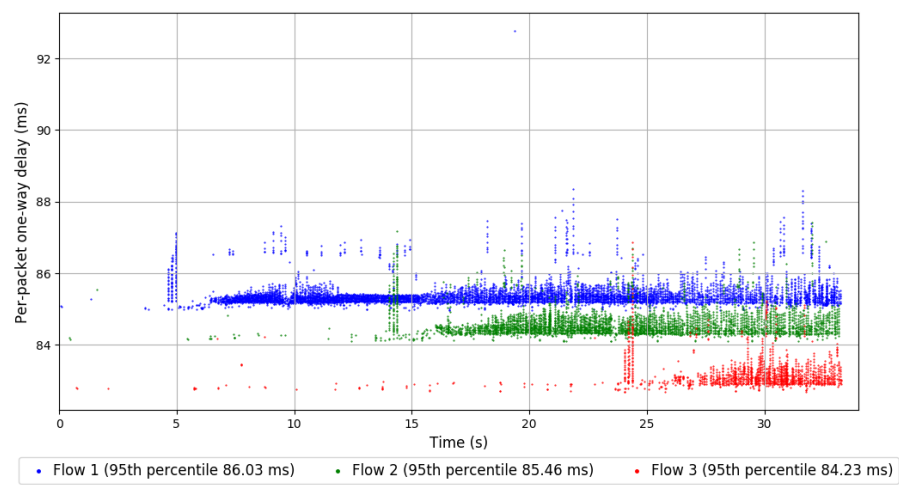
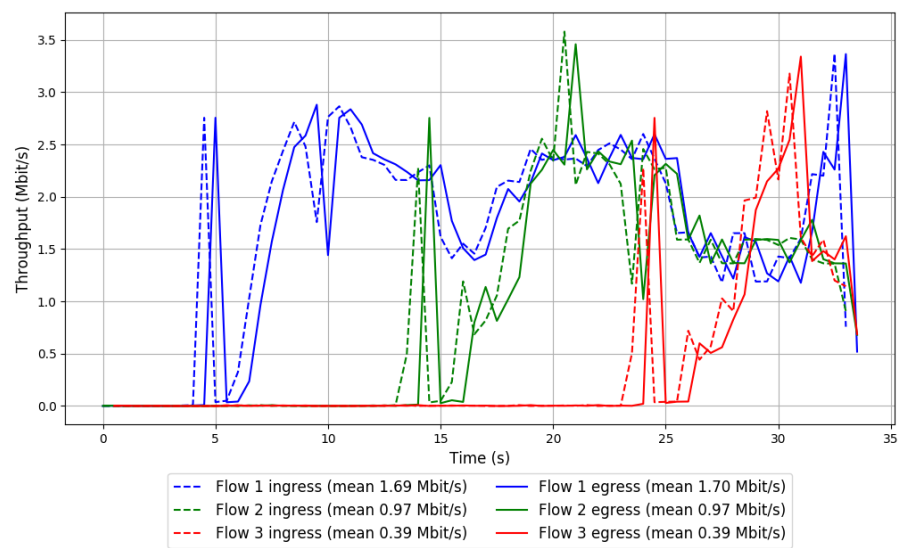
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 84.227 ms

Loss rate: 1.77%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-07-10 22:58:03

End at: 2018-07-10 22:58:33

Local clock offset: -1.054 ms

Remote clock offset: 2.715 ms

Below is generated by plot.py at 2018-07-11 00:09:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.13 Mbit/s

95th percentile per-packet one-way delay: 83.951 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 82.199 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 82.000 ms

Loss rate: 0.71%

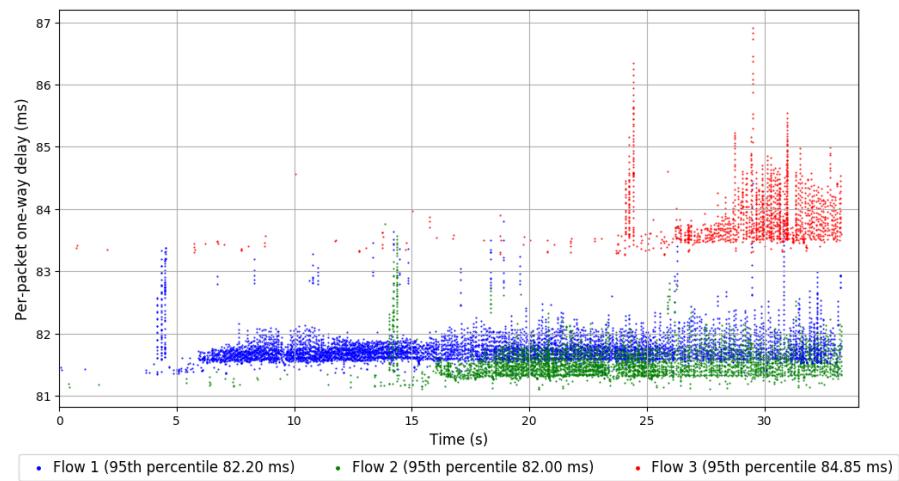
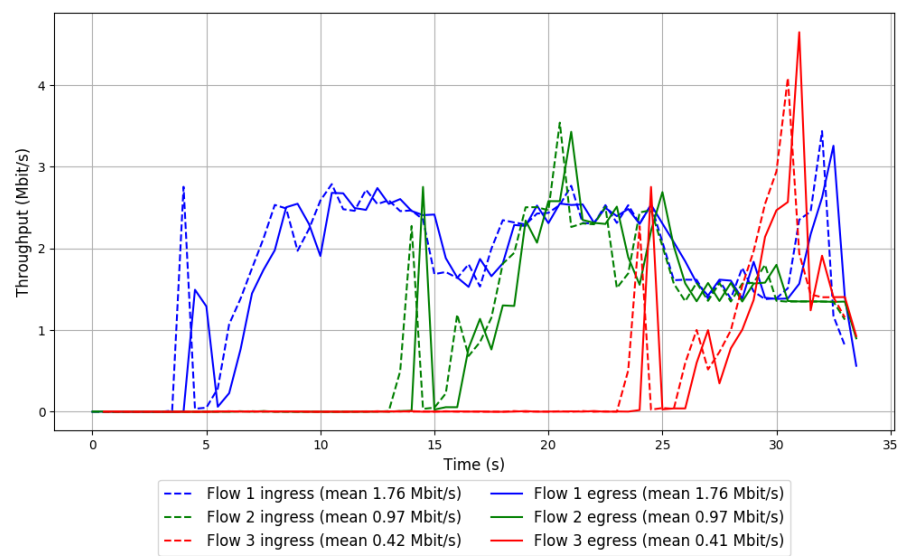
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 84.848 ms

Loss rate: 1.69%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-10 23:19:31

End at: 2018-07-10 23:20:01

Local clock offset: -0.973 ms

Remote clock offset: 5.592 ms

Below is generated by plot.py at 2018-07-11 00:09:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.04 Mbit/s

95th percentile per-packet one-way delay: 81.608 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 79.982 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 81.919 ms

Loss rate: 0.70%

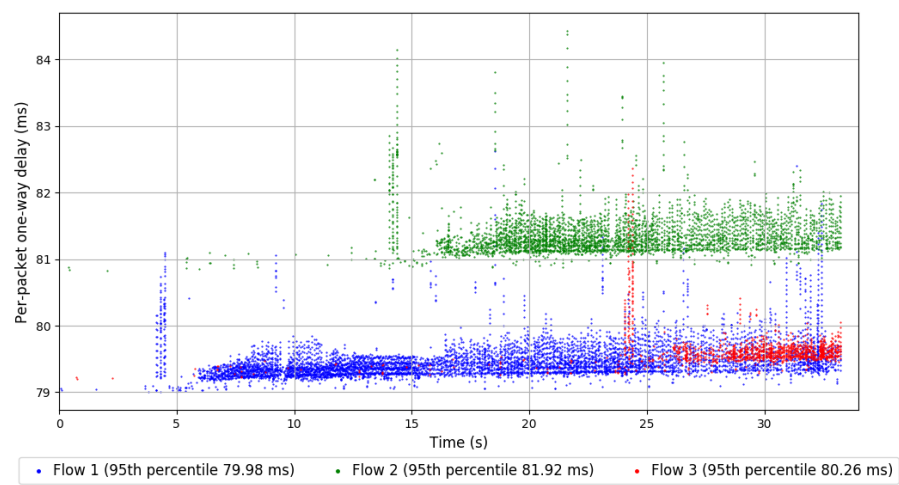
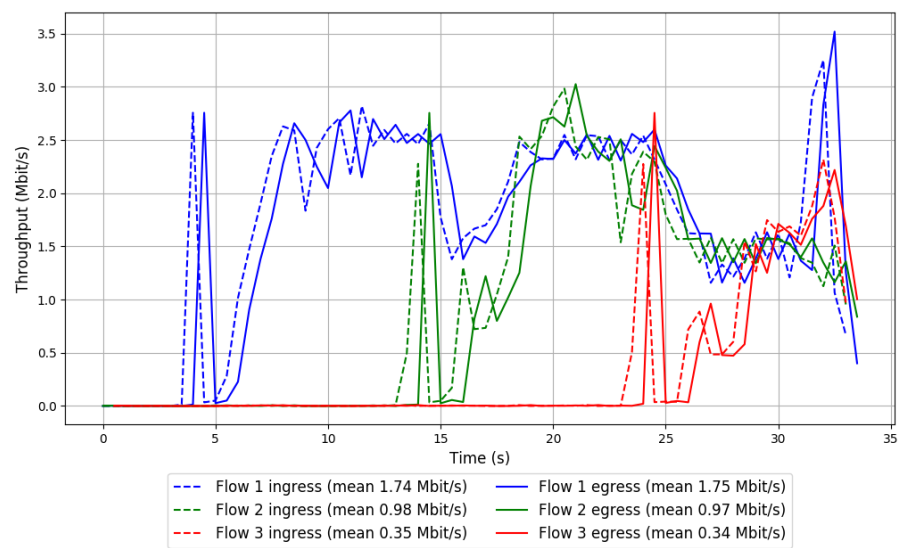
-- Flow 3:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 80.259 ms

Loss rate: 1.47%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-10 23:40:48

End at: 2018-07-10 23:41:18

Local clock offset: -0.93 ms

Remote clock offset: 8.692 ms

Below is generated by plot.py at 2018-07-11 00:09:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.11 Mbit/s

95th percentile per-packet one-way delay: 80.554 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 79.034 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 0.99 Mbit/s

95th percentile per-packet one-way delay: 80.575 ms

Loss rate: 0.70%

-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 81.089 ms

Loss rate: 1.76%

Run 10: Report of WebRTC media — Data Link

