

Pantheon Report

Generated at 2018-05-30 19:30:42 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

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

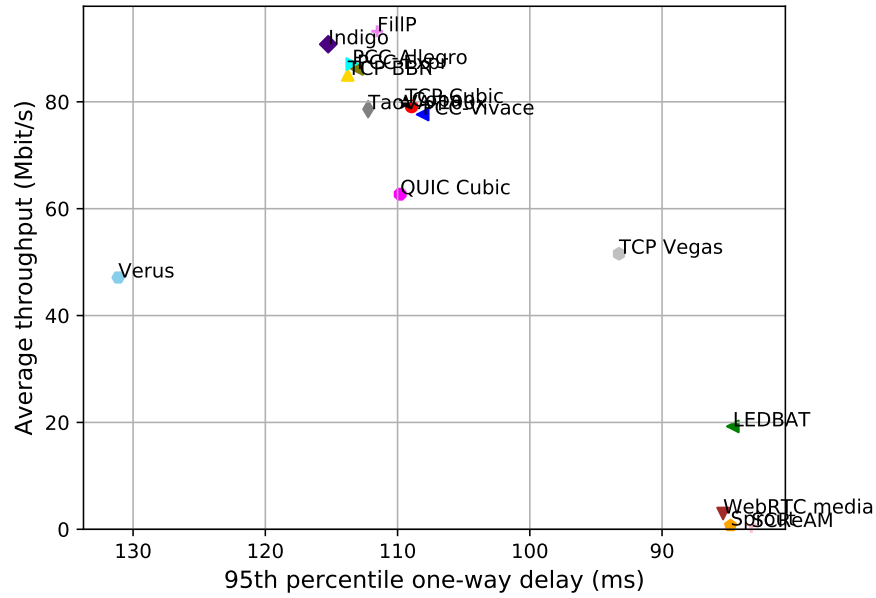
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

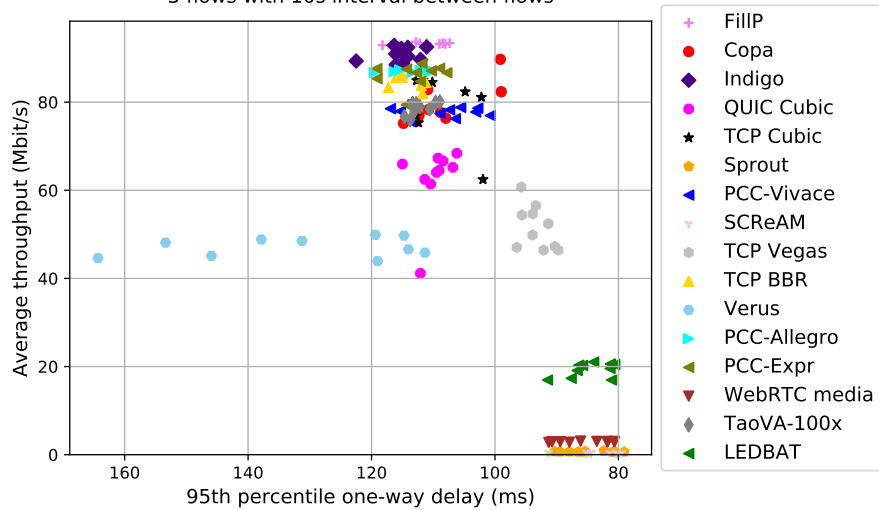
Git summary:

```
branch: master @ 227fdf9a3757f17b88537cceed5743a33037a3d2
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
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-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



test from AWS Brazil 2 to Colombia, 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	54.08	34.54	23.89	112.81	112.64	112.52	8.41	11.64	14.29
Copa	10	58.36	24.46	13.55	110.27	105.59	99.62	2.45	0.99	0.54
TCP Cubic	10	47.24	38.46	20.84	108.17	110.17	110.40	0.41	0.75	0.98
FillP	10	59.25	38.57	25.03	110.85	110.51	110.49	18.32	19.81	18.58
Indigo	10	62.13	30.21	27.05	113.48	114.36	113.93	7.94	18.92	49.31
LEDBAT	10	12.19	8.49	4.28	83.99	84.42	83.37	0.00	0.00	0.00
PCC-Allegro	10	78.85	8.74	7.31	113.40	113.81	112.80	2.68	3.91	4.89
PCC-Expr	10	76.84	11.16	7.24	112.93	158.08	181.82	4.13	4.16	5.85
QUIC Cubic	10	45.44	20.12	11.97	110.42	106.64	102.43	0.74	0.60	0.39
SCReAM	10	0.22	0.22	0.22	81.31	81.83	82.12	0.01	0.00	0.00
Sprout	10	0.32	0.35	0.48	83.50	84.10	82.66	0.00	0.00	0.00
TaoVA-100x	10	50.58	31.44	21.53	111.86	112.41	112.83	4.36	8.88	9.85
TCP Vegas	10	23.03	24.57	36.62	93.28	96.44	88.91	0.66	0.93	0.93
Verus	10	23.46	27.54	17.18	117.93	137.82	114.02	24.84	51.20	30.04
PCC-Vivace	10	67.14	12.05	7.48	108.45	105.26	103.44	0.15	0.29	0.39
WebRTC media	10	1.70	1.02	0.25	84.43	85.00	84.89	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-05-30 15:54:36

End at: 2018-05-30 15:55:06

Local clock offset: -1.744 ms

Remote clock offset: 4.255 ms

Below is generated by plot.py at 2018-05-30 19:11:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.47 Mbit/s

95th percentile per-packet one-way delay: 111.195 ms

Loss rate: 12.00%

-- Flow 1:

Average throughput: 55.49 Mbit/s

95th percentile per-packet one-way delay: 111.246 ms

Loss rate: 11.14%

-- Flow 2:

Average throughput: 31.74 Mbit/s

95th percentile per-packet one-way delay: 109.664 ms

Loss rate: 13.63%

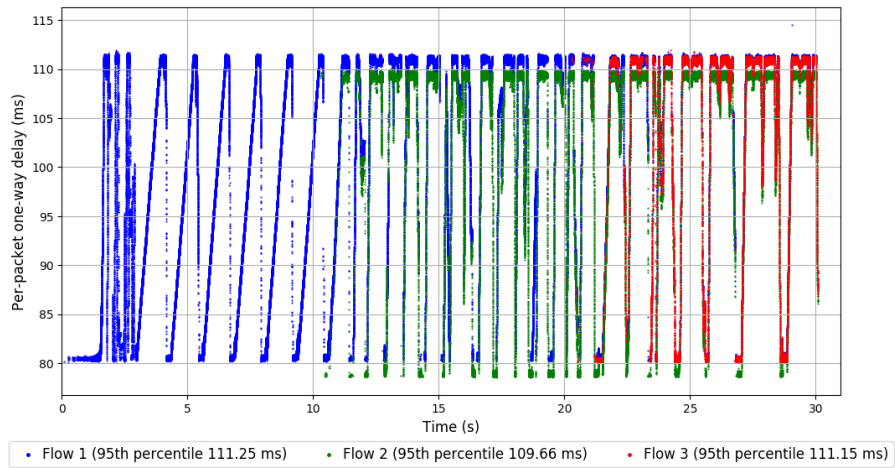
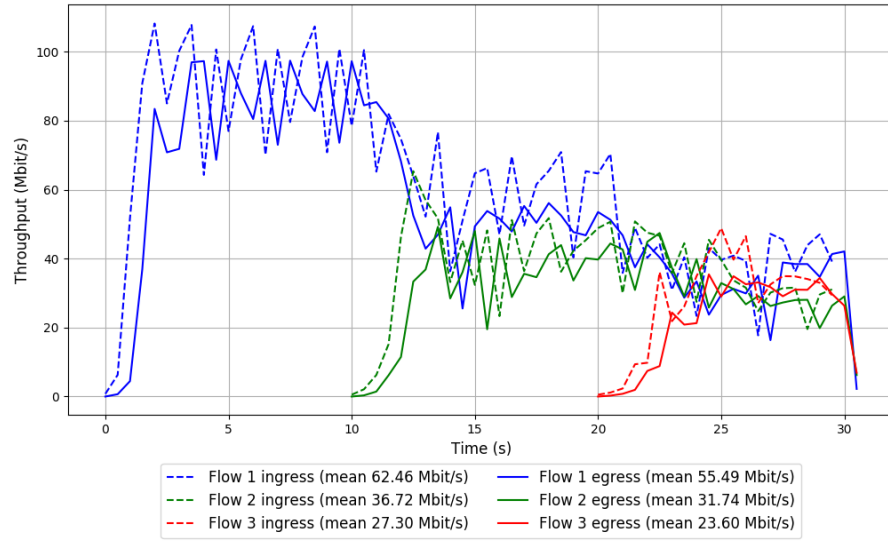
-- Flow 3:

Average throughput: 23.60 Mbit/s

95th percentile per-packet one-way delay: 111.153 ms

Loss rate: 13.58%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-05-30 16:14:44

End at: 2018-05-30 16:15:14

Local clock offset: -2.169 ms

Remote clock offset: 8.843 ms

Below is generated by plot.py at 2018-05-30 19:11:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.54 Mbit/s

95th percentile per-packet one-way delay: 116.011 ms

Loss rate: 9.53%

-- Flow 1:

Average throughput: 56.42 Mbit/s

95th percentile per-packet one-way delay: 116.065 ms

Loss rate: 8.44%

-- Flow 2:

Average throughput: 32.73 Mbit/s

95th percentile per-packet one-way delay: 114.549 ms

Loss rate: 11.44%

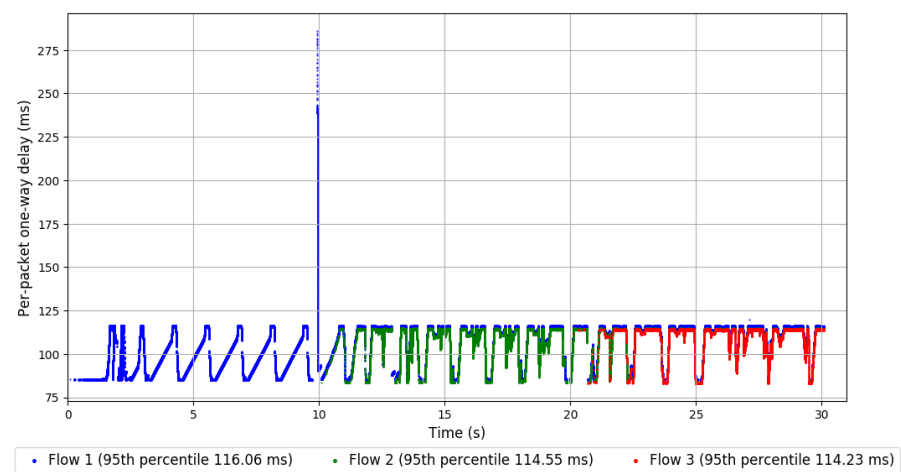
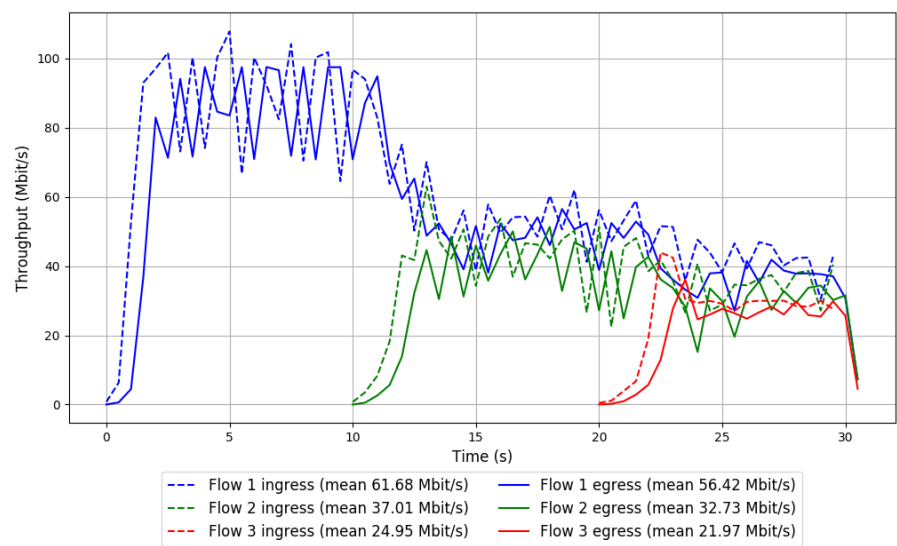
-- Flow 3:

Average throughput: 21.97 Mbit/s

95th percentile per-packet one-way delay: 114.228 ms

Loss rate: 11.94%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-05-30 16:34:58

End at: 2018-05-30 16:35:28

Local clock offset: -2.383 ms

Remote clock offset: 3.833 ms

Below is generated by plot.py at 2018-05-30 19:11:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.84 Mbit/s

95th percentile per-packet one-way delay: 111.788 ms

Loss rate: 8.91%

-- Flow 1:

Average throughput: 56.68 Mbit/s

95th percentile per-packet one-way delay: 111.053 ms

Loss rate: 7.58%

-- Flow 2:

Average throughput: 35.12 Mbit/s

95th percentile per-packet one-way delay: 111.989 ms

Loss rate: 10.43%

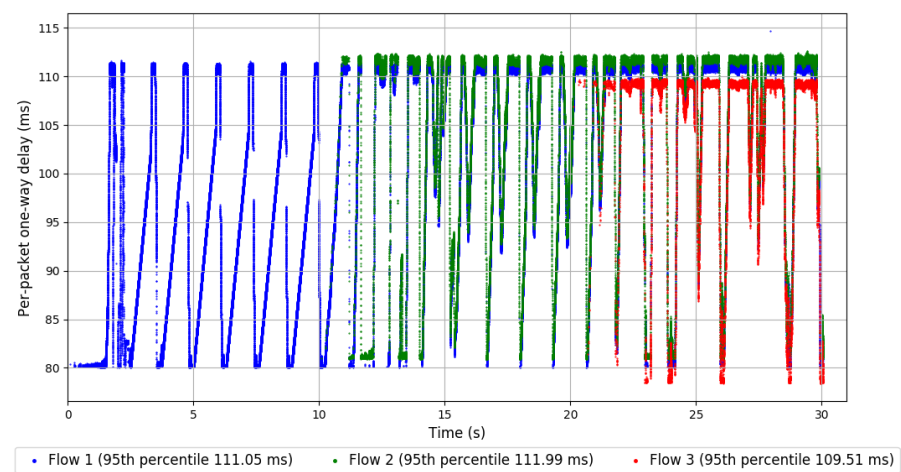
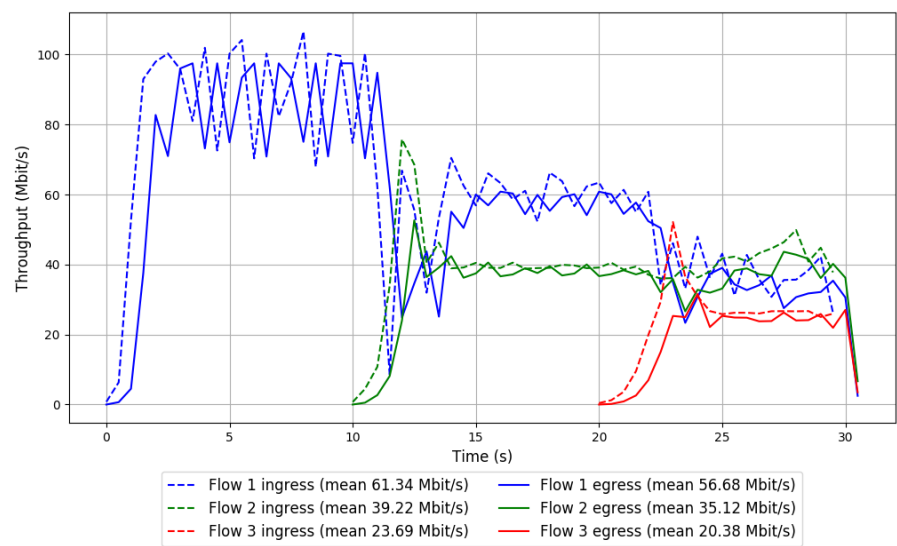
-- Flow 3:

Average throughput: 20.38 Mbit/s

95th percentile per-packet one-way delay: 109.509 ms

Loss rate: 14.22%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-05-30 16:55:09

End at: 2018-05-30 16:55:39

Local clock offset: -1.126 ms

Remote clock offset: 8.692 ms

Below is generated by plot.py at 2018-05-30 19:11:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.68 Mbit/s

95th percentile per-packet one-way delay: 115.015 ms

Loss rate: 10.33%

-- Flow 1:

Average throughput: 53.18 Mbit/s

95th percentile per-packet one-way delay: 113.800 ms

Loss rate: 8.49%

-- Flow 2:

Average throughput: 37.50 Mbit/s

95th percentile per-packet one-way delay: 115.095 ms

Loss rate: 12.88%

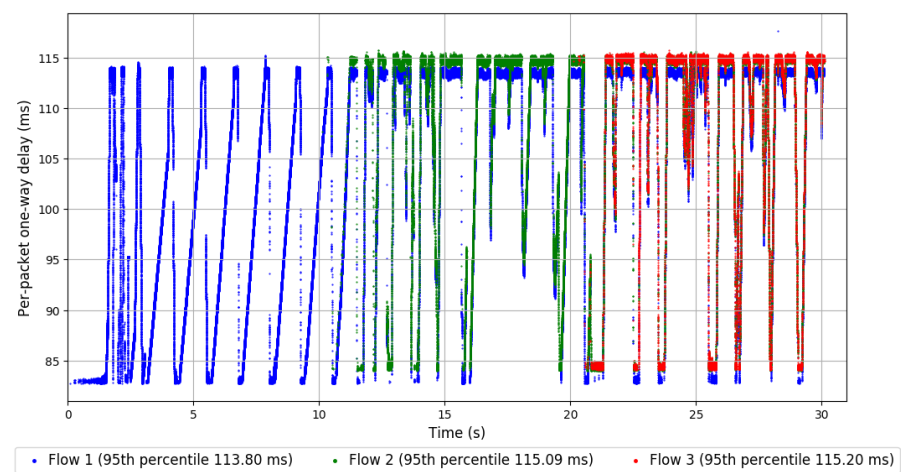
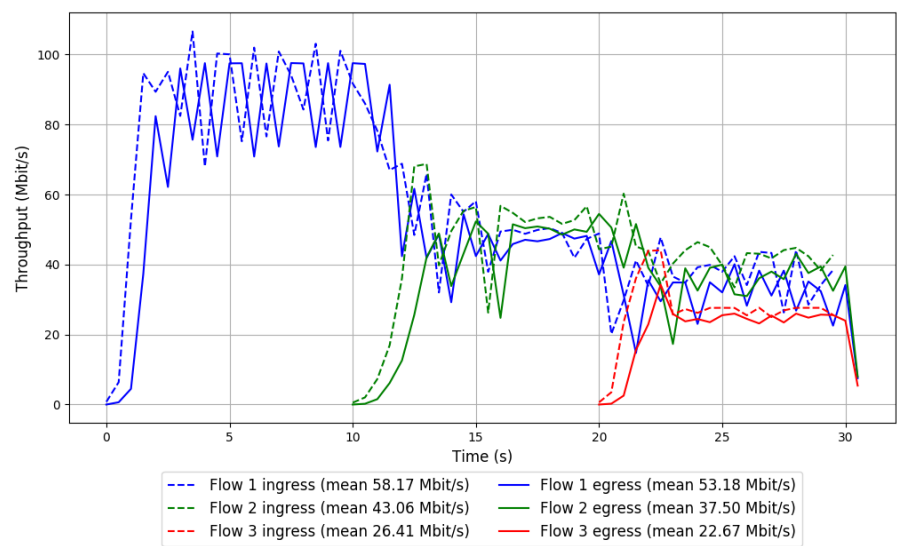
-- Flow 3:

Average throughput: 22.67 Mbit/s

95th percentile per-packet one-way delay: 115.196 ms

Loss rate: 14.17%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-05-30 17:15:23

End at: 2018-05-30 17:15:53

Local clock offset: -3.492 ms

Remote clock offset: 3.904 ms

Below is generated by plot.py at 2018-05-30 19:11:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.78 Mbit/s

95th percentile per-packet one-way delay: 111.956 ms

Loss rate: 11.18%

-- Flow 1:

Average throughput: 52.30 Mbit/s

95th percentile per-packet one-way delay: 111.960 ms

Loss rate: 9.28%

-- Flow 2:

Average throughput: 33.56 Mbit/s

95th percentile per-packet one-way delay: 110.215 ms

Loss rate: 13.62%

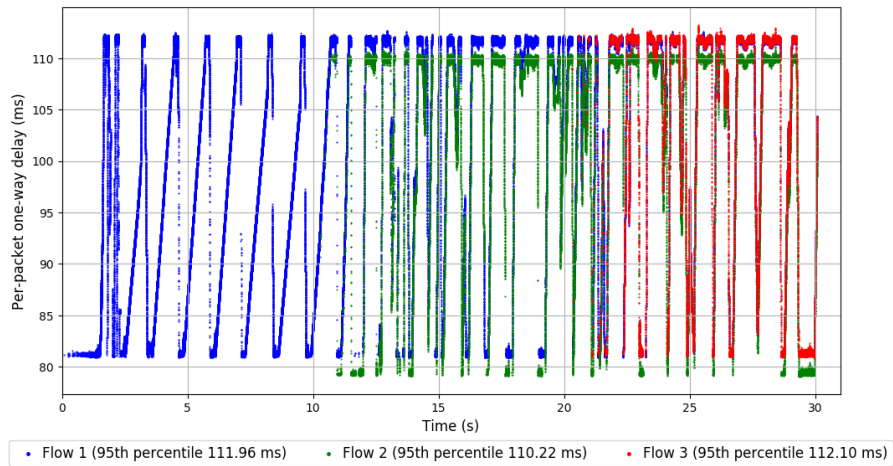
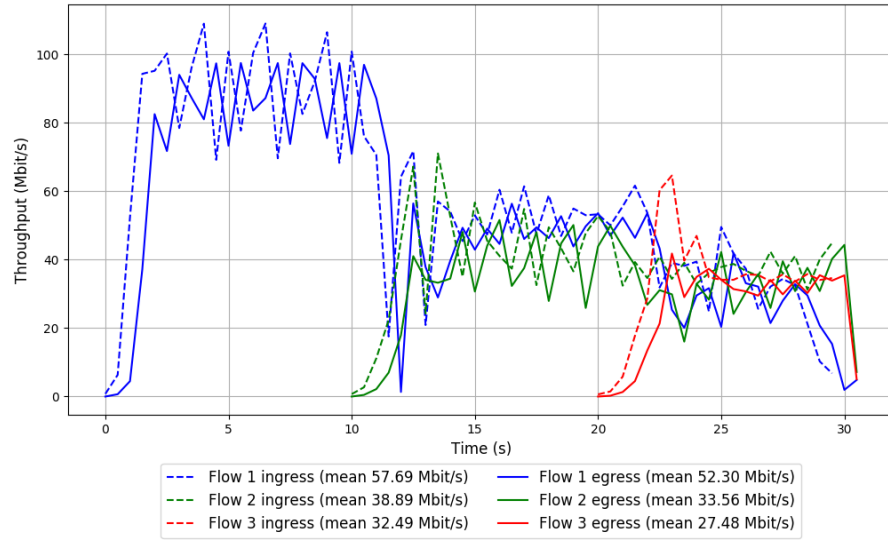
-- Flow 3:

Average throughput: 27.48 Mbit/s

95th percentile per-packet one-way delay: 112.102 ms

Loss rate: 15.46%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-05-30 17:35:23

End at: 2018-05-30 17:35:53

Local clock offset: -3.989 ms

Remote clock offset: 8.566 ms

Below is generated by plot.py at 2018-05-30 19:11:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.38 Mbit/s

95th percentile per-packet one-way delay: 115.053 ms

Loss rate: 7.01%

-- Flow 1:

Average throughput: 58.81 Mbit/s

95th percentile per-packet one-way delay: 114.943 ms

Loss rate: 6.86%

-- Flow 2:

Average throughput: 29.89 Mbit/s

95th percentile per-packet one-way delay: 114.792 ms

Loss rate: 6.36%

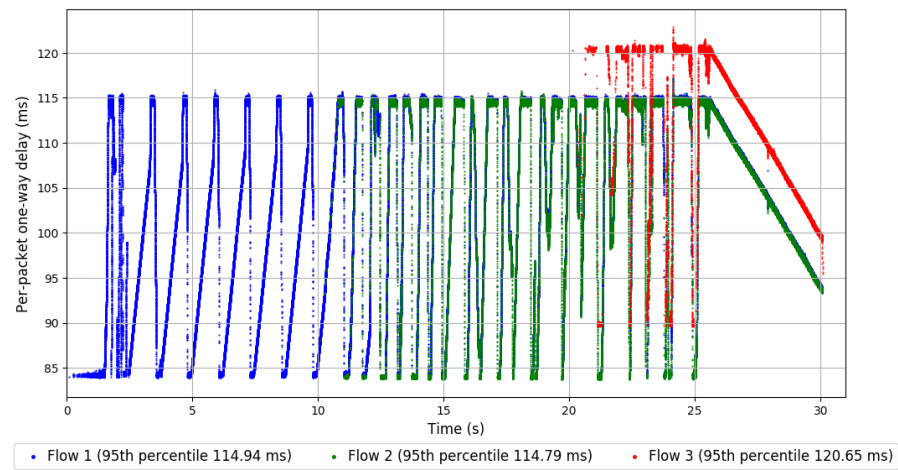
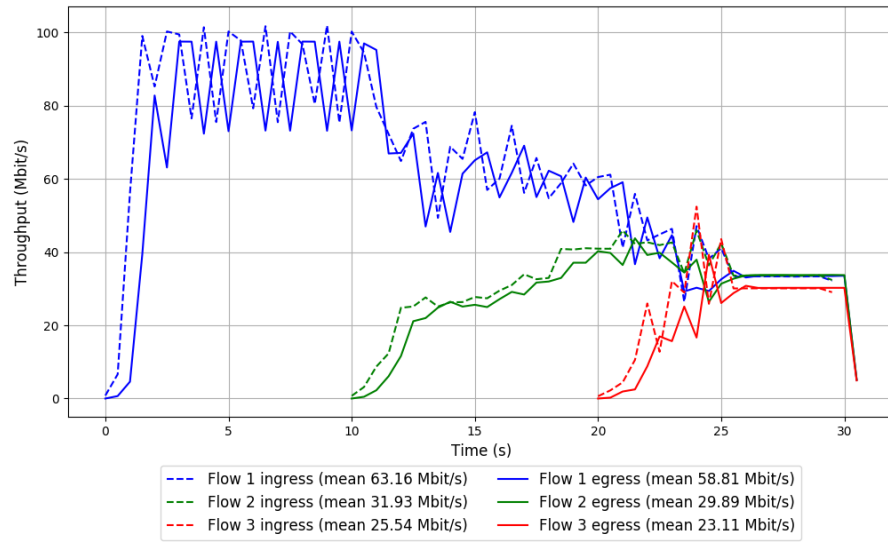
-- Flow 3:

Average throughput: 23.11 Mbit/s

95th percentile per-packet one-way delay: 120.649 ms

Loss rate: 9.73%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-05-30 17:55:24

End at: 2018-05-30 17:55:54

Local clock offset: -2.934 ms

Remote clock offset: 7.576 ms

Below is generated by plot.py at 2018-05-30 19:11:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.74 Mbit/s

95th percentile per-packet one-way delay: 111.740 ms

Loss rate: 10.28%

-- Flow 1:

Average throughput: 52.06 Mbit/s

95th percentile per-packet one-way delay: 111.686 ms

Loss rate: 8.24%

-- Flow 2:

Average throughput: 40.65 Mbit/s

95th percentile per-packet one-way delay: 111.812 ms

Loss rate: 13.12%

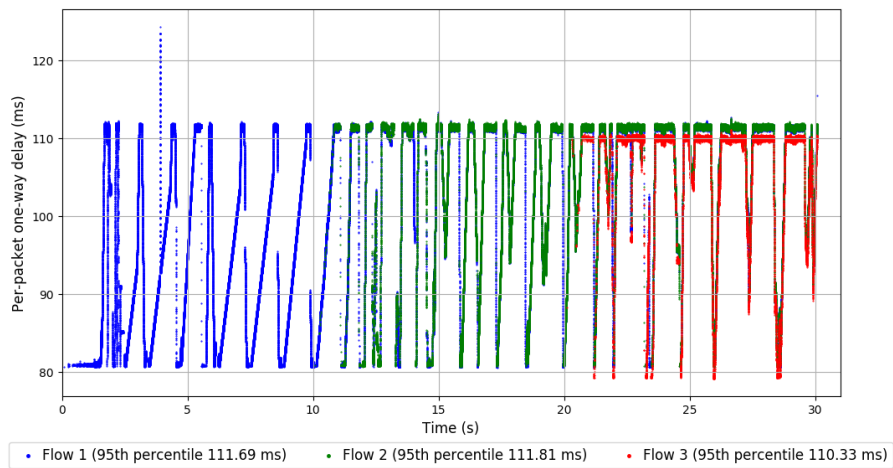
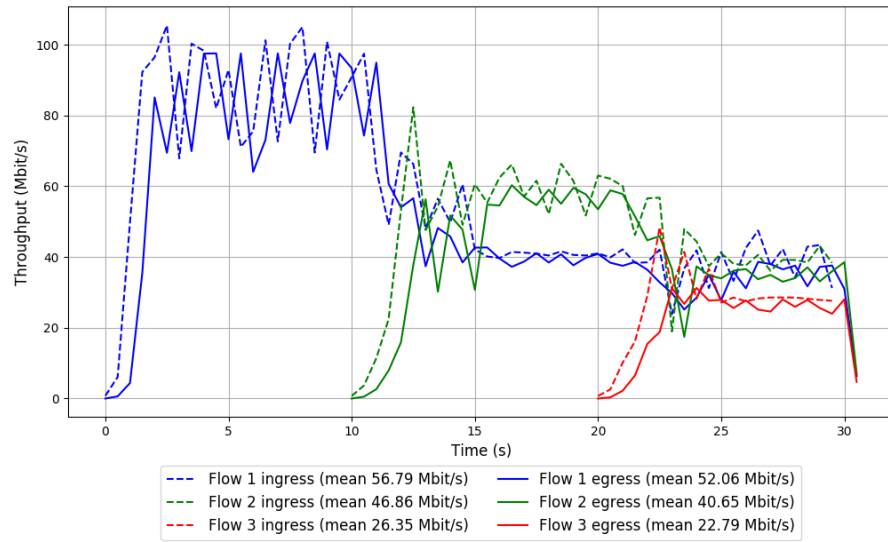
-- Flow 3:

Average throughput: 22.79 Mbit/s

95th percentile per-packet one-way delay: 110.325 ms

Loss rate: 13.35%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-05-30 18:15:27

End at: 2018-05-30 18:15:57

Local clock offset: -3.337 ms

Remote clock offset: 9.909 ms

Below is generated by plot.py at 2018-05-30 19:11:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.69 Mbit/s

95th percentile per-packet one-way delay: 115.959 ms

Loss rate: 8.81%

-- Flow 1:

Average throughput: 54.90 Mbit/s

95th percentile per-packet one-way delay: 109.938 ms

Loss rate: 7.64%

-- Flow 2:

Average throughput: 36.71 Mbit/s

95th percentile per-packet one-way delay: 116.137 ms

Loss rate: 9.22%

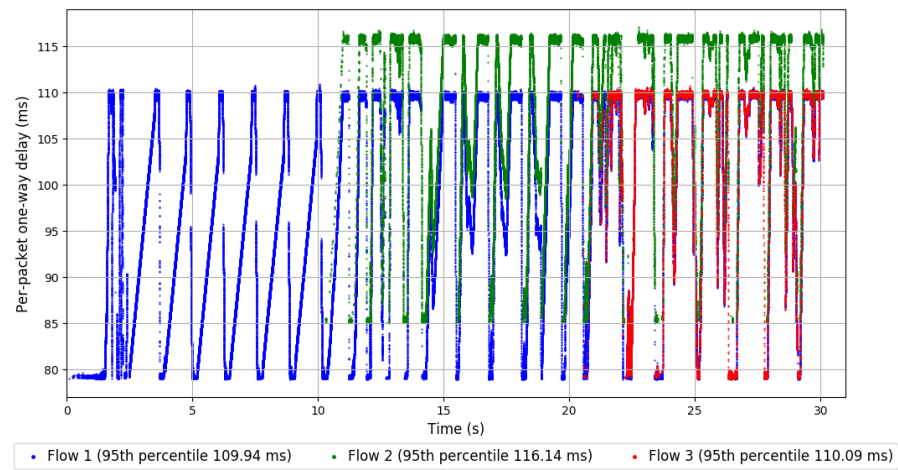
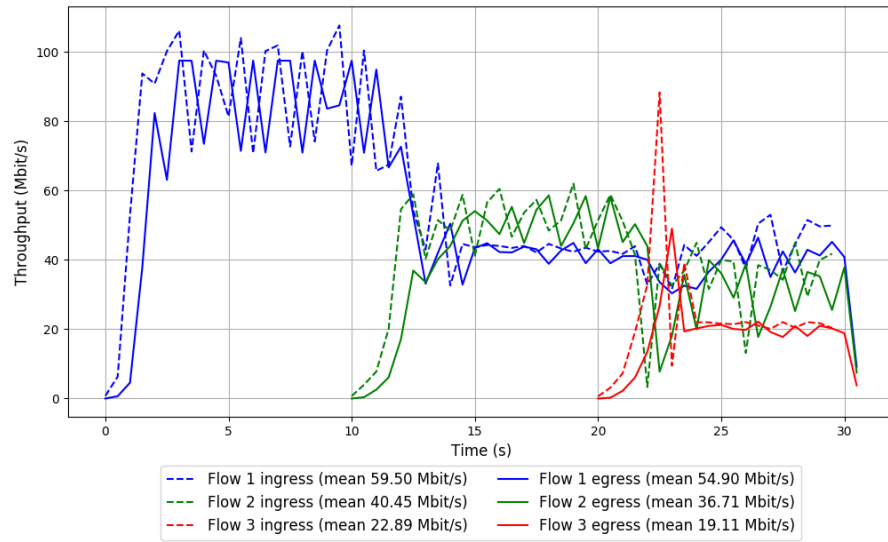
-- Flow 3:

Average throughput: 19.11 Mbit/s

95th percentile per-packet one-way delay: 110.086 ms

Loss rate: 16.51%

Run 8: Report of TCP BBR — Data Link

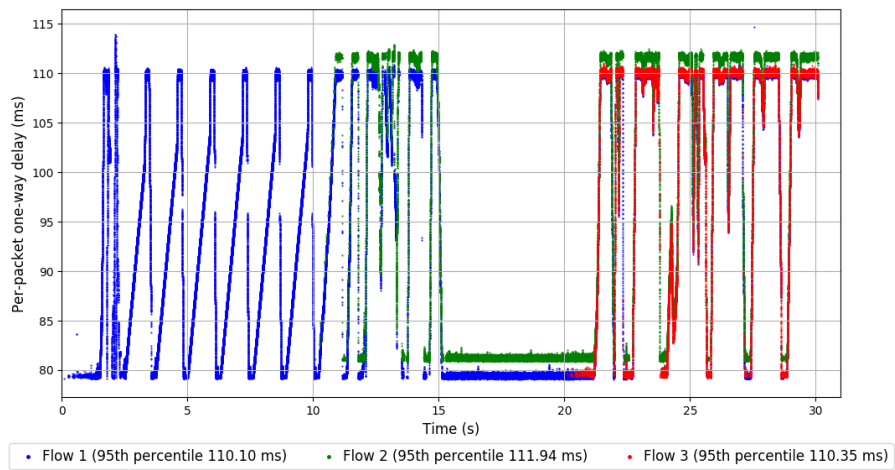
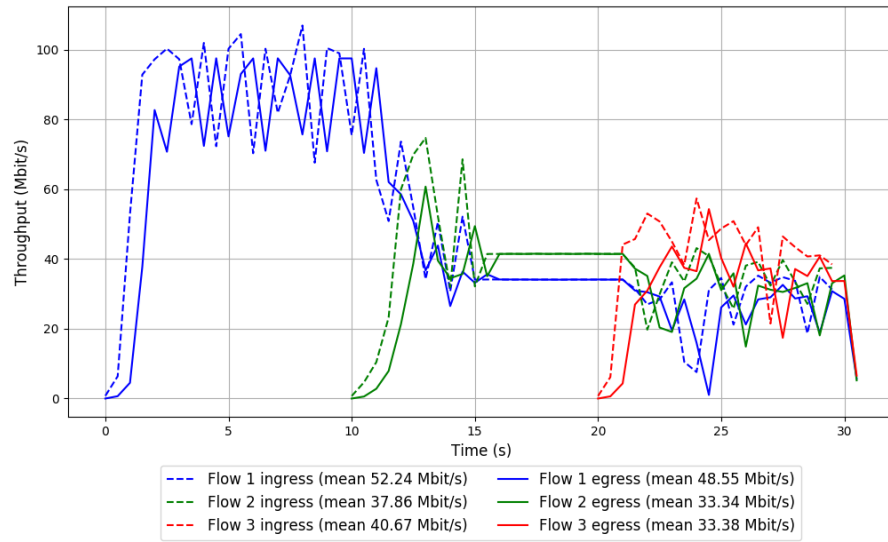


Run 9: Statistics of TCP BBR

Start at: 2018-05-30 18:35:34
End at: 2018-05-30 18:36:04
Local clock offset: -4.446 ms
Remote clock offset: 10.345 ms

Below is generated by plot.py at 2018-05-30 19:12:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.89 Mbit/s
95th percentile per-packet one-way delay: 111.703 ms
Loss rate: 9.91%
-- Flow 1:
Average throughput: 48.55 Mbit/s
95th percentile per-packet one-way delay: 110.101 ms
Loss rate: 6.97%
-- Flow 2:
Average throughput: 33.34 Mbit/s
95th percentile per-packet one-way delay: 111.940 ms
Loss rate: 11.82%
-- Flow 3:
Average throughput: 33.38 Mbit/s
95th percentile per-packet one-way delay: 110.352 ms
Loss rate: 17.70%

Run 9: Report of TCP BBR — Data Link

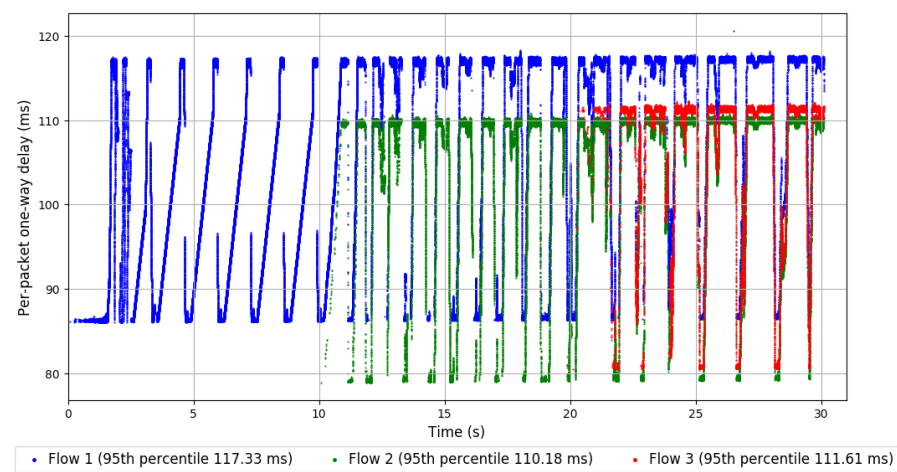
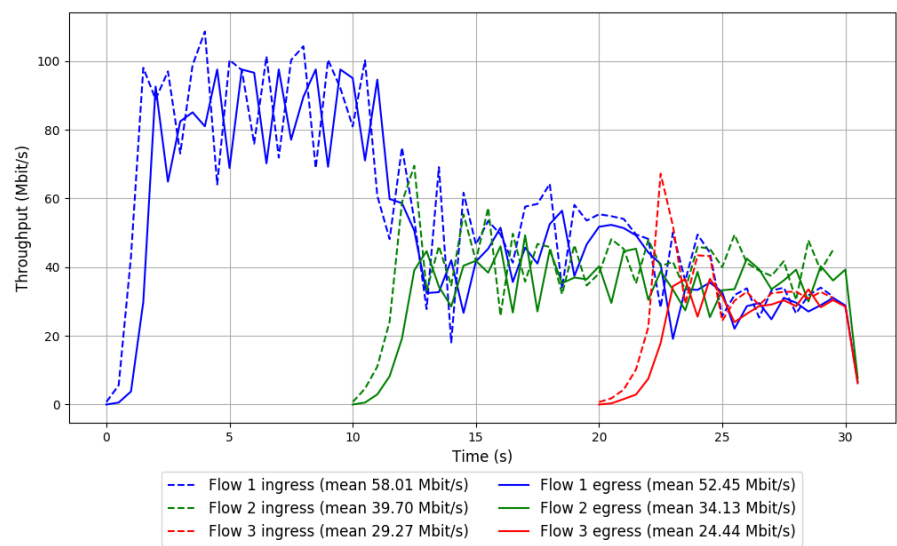


Run 10: Statistics of TCP BBR

Start at: 2018-05-30 18:55:39
End at: 2018-05-30 18:56:09
Local clock offset: -4.567 ms
Remote clock offset: 10.645 ms

Below is generated by plot.py at 2018-05-30 19:12:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.34 Mbit/s
95th percentile per-packet one-way delay: 117.256 ms
Loss rate: 11.44%
-- Flow 1:
Average throughput: 52.45 Mbit/s
95th percentile per-packet one-way delay: 117.330 ms
Loss rate: 9.50%
-- Flow 2:
Average throughput: 34.13 Mbit/s
95th percentile per-packet one-way delay: 110.184 ms
Loss rate: 13.90%
-- Flow 3:
Average throughput: 24.44 Mbit/s
95th percentile per-packet one-way delay: 111.607 ms
Loss rate: 16.25%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-05-30 15:55:52

End at: 2018-05-30 15:56:22

Local clock offset: -0.927 ms

Remote clock offset: 8.141 ms

Below is generated by plot.py at 2018-05-30 19:13:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.36 Mbit/s

95th percentile per-packet one-way delay: 107.963 ms

Loss rate: 1.88%

-- Flow 1:

Average throughput: 51.78 Mbit/s

95th percentile per-packet one-way delay: 110.973 ms

Loss rate: 2.51%

-- Flow 2:

Average throughput: 31.81 Mbit/s

95th percentile per-packet one-way delay: 103.382 ms

Loss rate: 0.63%

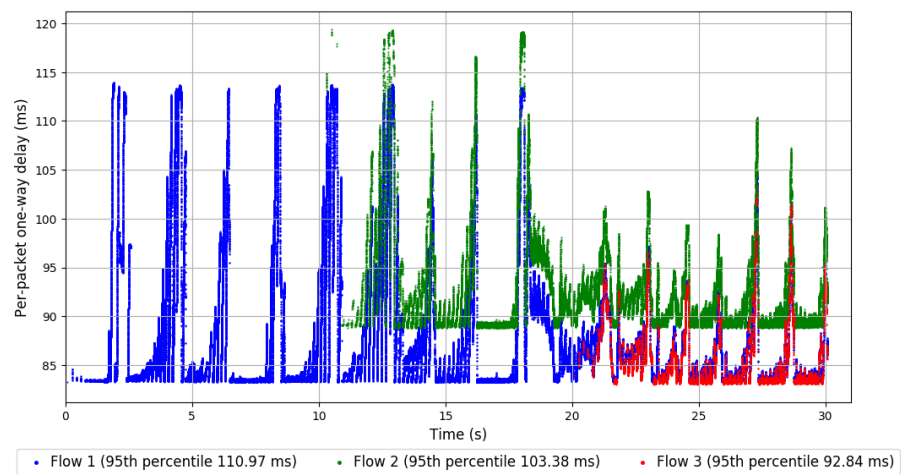
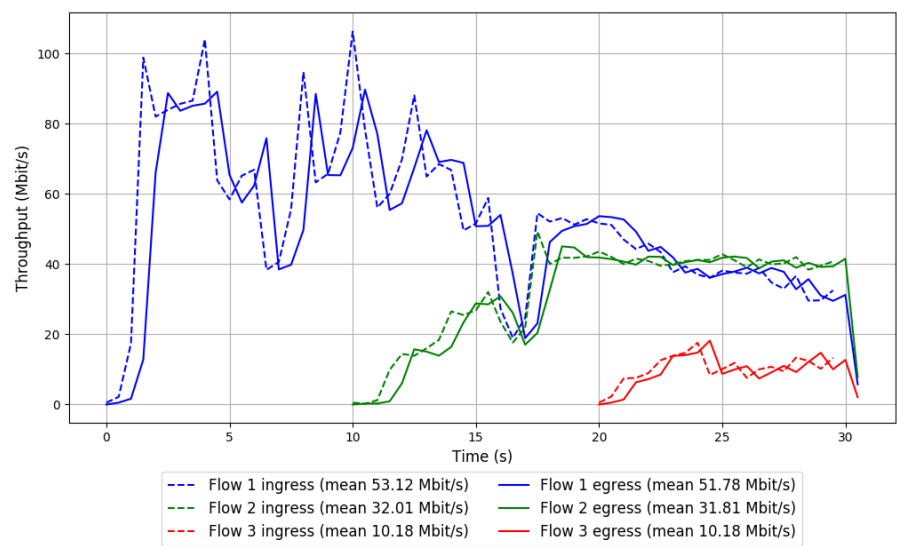
-- Flow 3:

Average throughput: 10.18 Mbit/s

95th percentile per-packet one-way delay: 92.836 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-05-30 16:16:01

End at: 2018-05-30 16:16:31

Local clock offset: -2.151 ms

Remote clock offset: 8.71 ms

Below is generated by plot.py at 2018-05-30 19:13:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.97 Mbit/s

95th percentile per-packet one-way delay: 112.315 ms

Loss rate: 3.20%

-- Flow 1:

Average throughput: 61.73 Mbit/s

95th percentile per-packet one-way delay: 112.371 ms

Loss rate: 3.65%

-- Flow 2:

Average throughput: 17.93 Mbit/s

95th percentile per-packet one-way delay: 108.116 ms

Loss rate: 1.20%

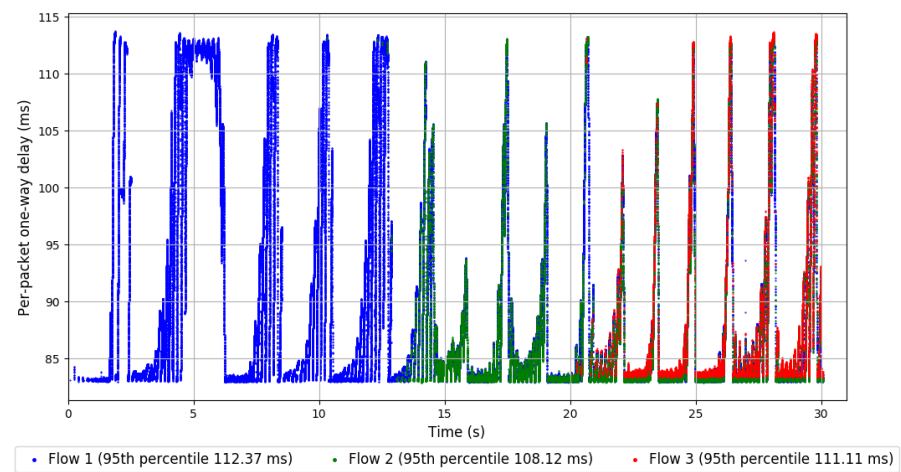
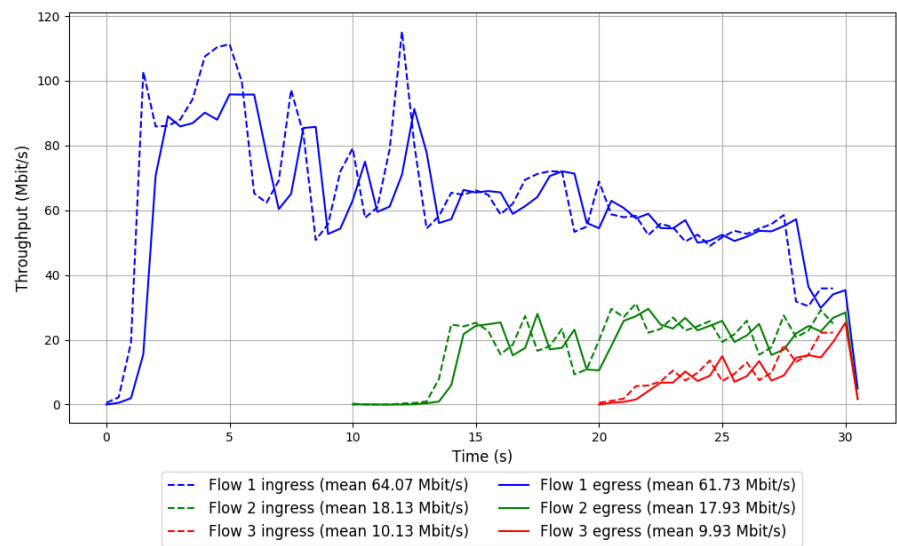
-- Flow 3:

Average throughput: 9.93 Mbit/s

95th percentile per-packet one-way delay: 111.107 ms

Loss rate: 1.98%

Run 2: Report of Copa — Data Link

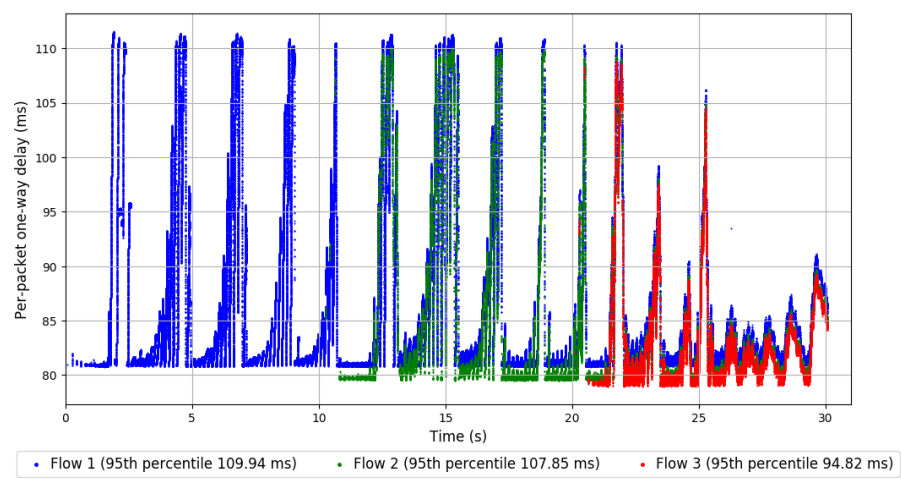
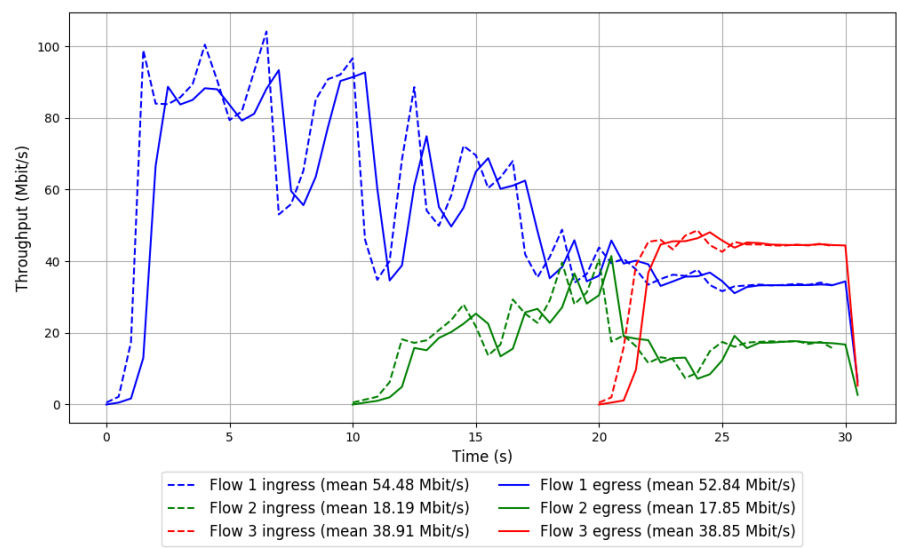


Run 3: Statistics of Copa

Start at: 2018-05-30 16:36:14
End at: 2018-05-30 16:36:44
Local clock offset: -2.385 ms
Remote clock offset: 4.595 ms

Below is generated by plot.py at 2018-05-30 19:13:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.67 Mbit/s
95th percentile per-packet one-way delay: 108.826 ms
Loss rate: 2.35%
-- Flow 1:
Average throughput: 52.84 Mbit/s
95th percentile per-packet one-way delay: 109.943 ms
Loss rate: 2.99%
-- Flow 2:
Average throughput: 17.85 Mbit/s
95th percentile per-packet one-way delay: 107.853 ms
Loss rate: 1.85%
-- Flow 3:
Average throughput: 38.85 Mbit/s
95th percentile per-packet one-way delay: 94.818 ms
Loss rate: 0.14%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-05-30 16:56:26

End at: 2018-05-30 16:56:56

Local clock offset: -1.93 ms

Remote clock offset: 8.74 ms

Below is generated by plot.py at 2018-05-30 19:13:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.71 Mbit/s

95th percentile per-packet one-way delay: 99.137 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 81.43 Mbit/s

95th percentile per-packet one-way delay: 97.706 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 9.02 Mbit/s

95th percentile per-packet one-way delay: 105.462 ms

Loss rate: 0.34%

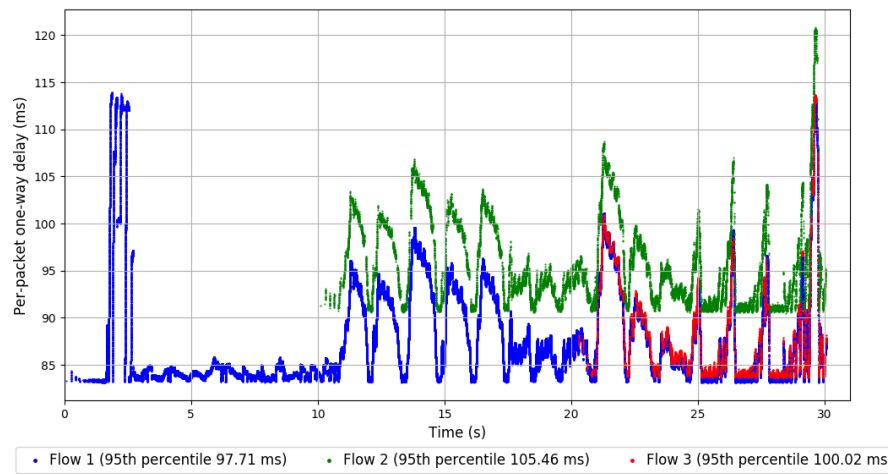
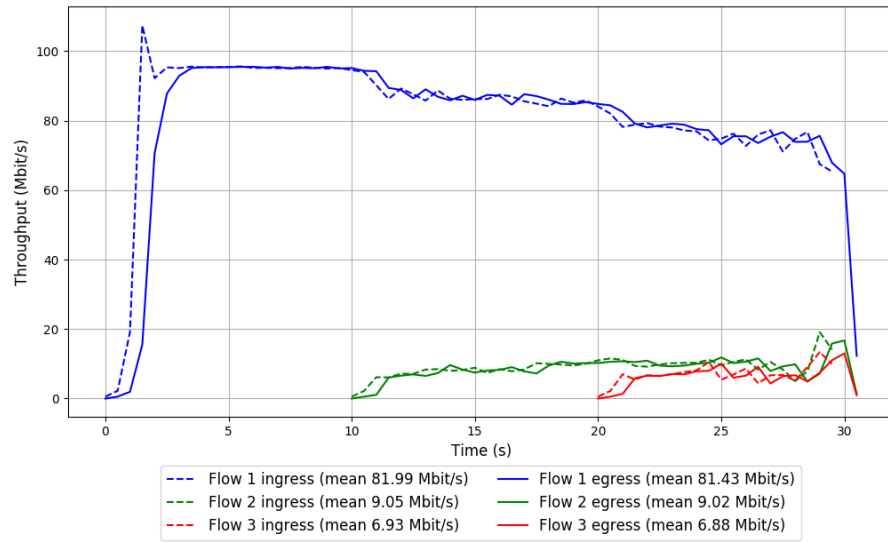
-- Flow 3:

Average throughput: 6.88 Mbit/s

95th percentile per-packet one-way delay: 100.018 ms

Loss rate: 0.69%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-05-30 17:16:39

End at: 2018-05-30 17:17:09

Local clock offset: -3.483 ms

Remote clock offset: 8.773 ms

Below is generated by plot.py at 2018-05-30 19:13:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.20 Mbit/s

95th percentile per-packet one-way delay: 114.817 ms

Loss rate: 2.60%

-- Flow 1:

Average throughput: 57.10 Mbit/s

95th percentile per-packet one-way delay: 115.474 ms

Loss rate: 3.08%

-- Flow 2:

Average throughput: 18.90 Mbit/s

95th percentile per-packet one-way delay: 110.353 ms

Loss rate: 0.92%

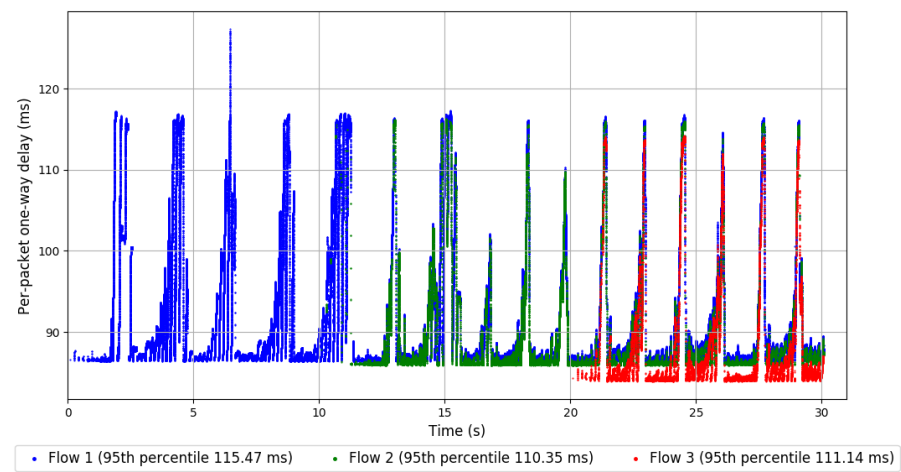
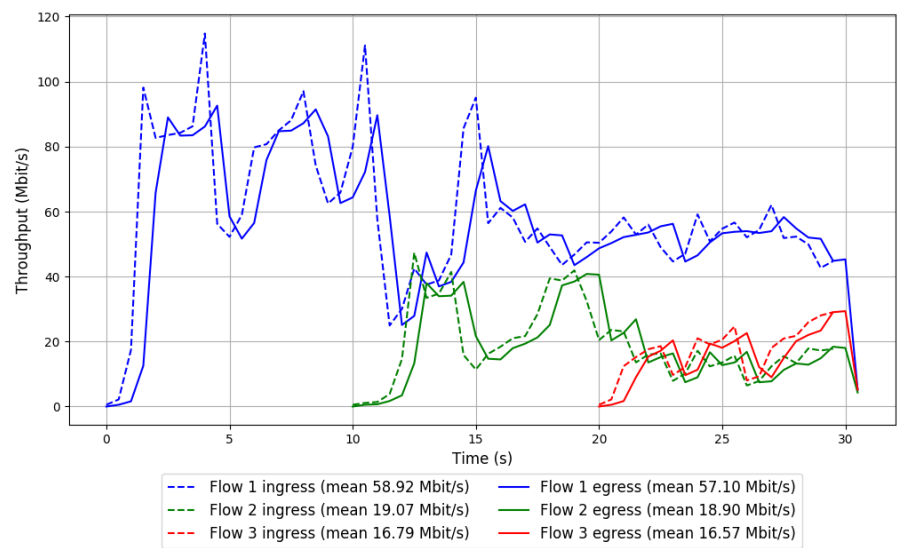
-- Flow 3:

Average throughput: 16.57 Mbit/s

95th percentile per-packet one-way delay: 111.137 ms

Loss rate: 1.31%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-05-30 17:36:40

End at: 2018-05-30 17:37:10

Local clock offset: -4.058 ms

Remote clock offset: 8.624 ms

Below is generated by plot.py at 2018-05-30 19:13:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.60 Mbit/s

95th percentile per-packet one-way delay: 112.814 ms

Loss rate: 2.36%

-- Flow 1:

Average throughput: 54.77 Mbit/s

95th percentile per-packet one-way delay: 114.349 ms

Loss rate: 2.95%

-- Flow 2:

Average throughput: 27.23 Mbit/s

95th percentile per-packet one-way delay: 106.162 ms

Loss rate: 0.83%

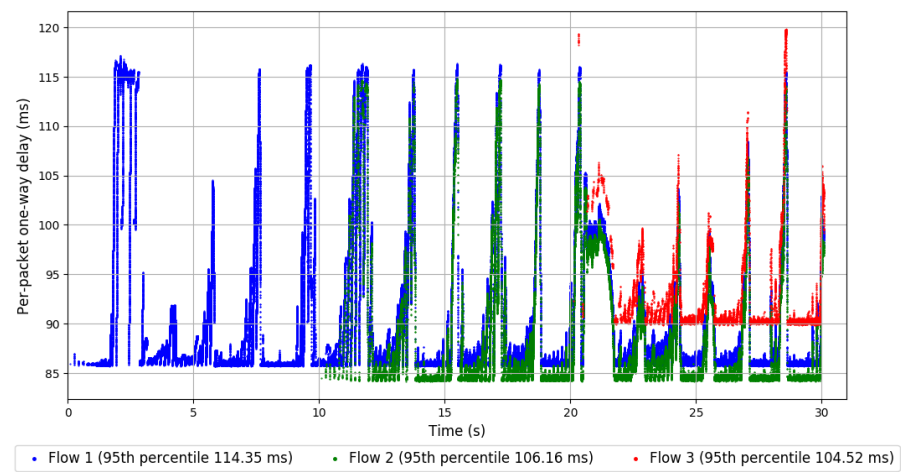
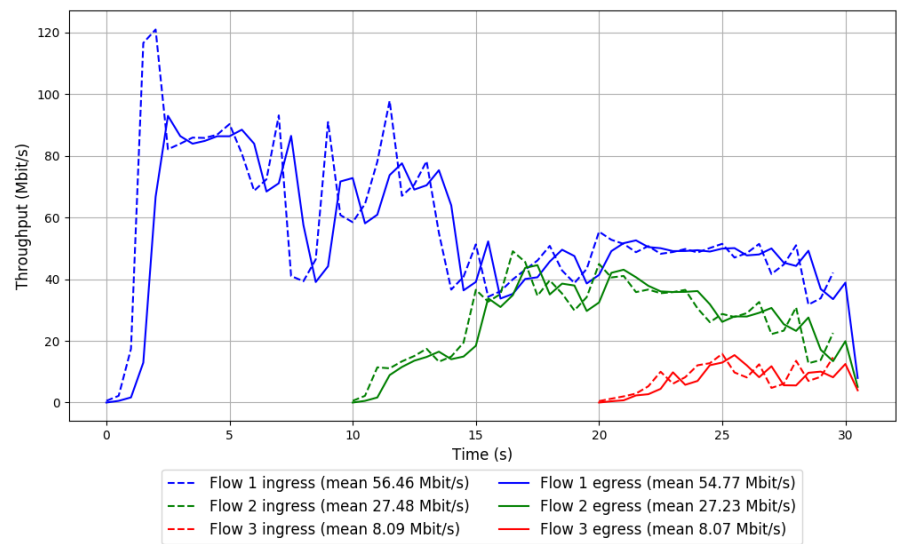
-- Flow 3:

Average throughput: 8.07 Mbit/s

95th percentile per-packet one-way delay: 104.524 ms

Loss rate: 0.23%

Run 6: Report of Copa — Data Link

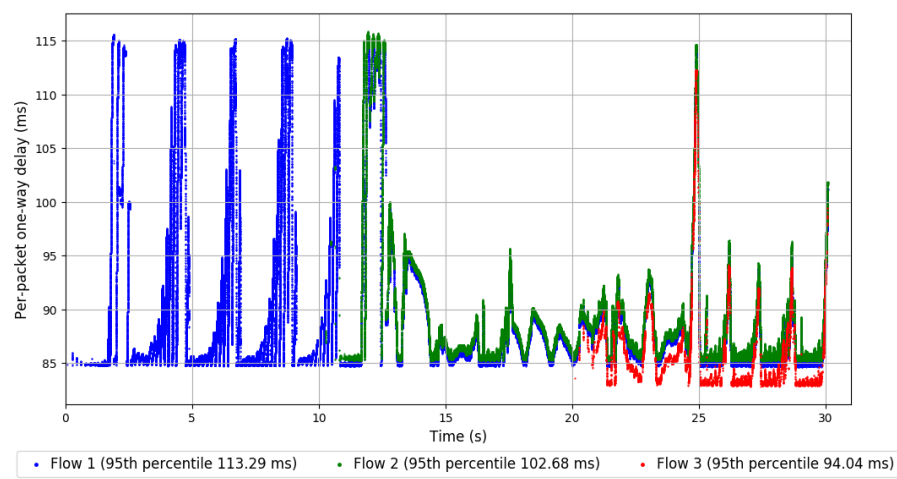
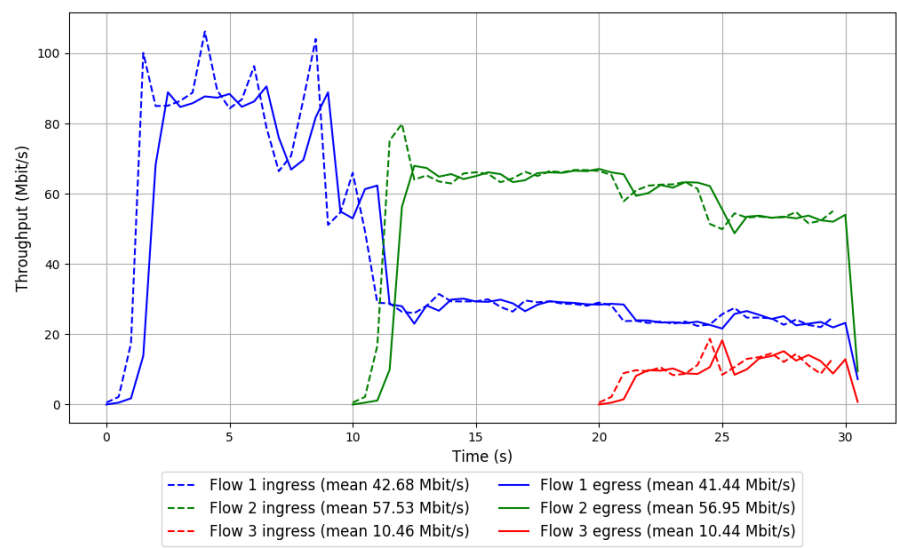


Run 7: Statistics of Copa

Start at: 2018-05-30 17:56:40
End at: 2018-05-30 17:57:10
Local clock offset: -2.94 ms
Remote clock offset: 11.659 ms

Below is generated by plot.py at 2018-05-30 19:14:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.85 Mbit/s
95th percentile per-packet one-way delay: 110.911 ms
Loss rate: 1.87%
-- Flow 1:
Average throughput: 41.44 Mbit/s
95th percentile per-packet one-way delay: 113.292 ms
Loss rate: 2.85%
-- Flow 2:
Average throughput: 56.95 Mbit/s
95th percentile per-packet one-way delay: 102.679 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 10.44 Mbit/s
95th percentile per-packet one-way delay: 94.037 ms
Loss rate: 0.05%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-05-30 18:16:44

End at: 2018-05-30 18:17:14

Local clock offset: -3.38 ms

Remote clock offset: 9.188 ms

Below is generated by plot.py at 2018-05-30 19:14:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.36 Mbit/s

95th percentile per-packet one-way delay: 98.991 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 63.14 Mbit/s

95th percentile per-packet one-way delay: 101.643 ms

Loss rate: 1.57%

-- Flow 2:

Average throughput: 24.90 Mbit/s

95th percentile per-packet one-way delay: 91.410 ms

Loss rate: 0.13%

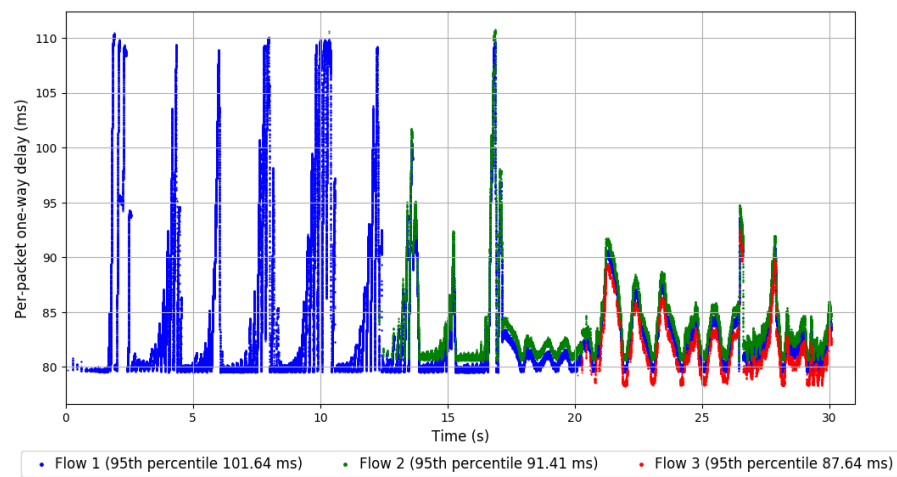
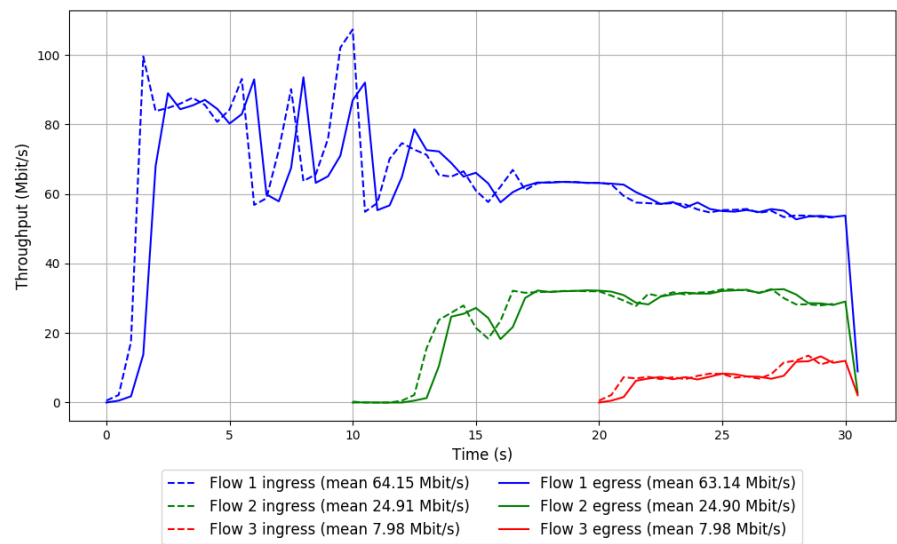
-- Flow 3:

Average throughput: 7.98 Mbit/s

95th percentile per-packet one-way delay: 87.642 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link

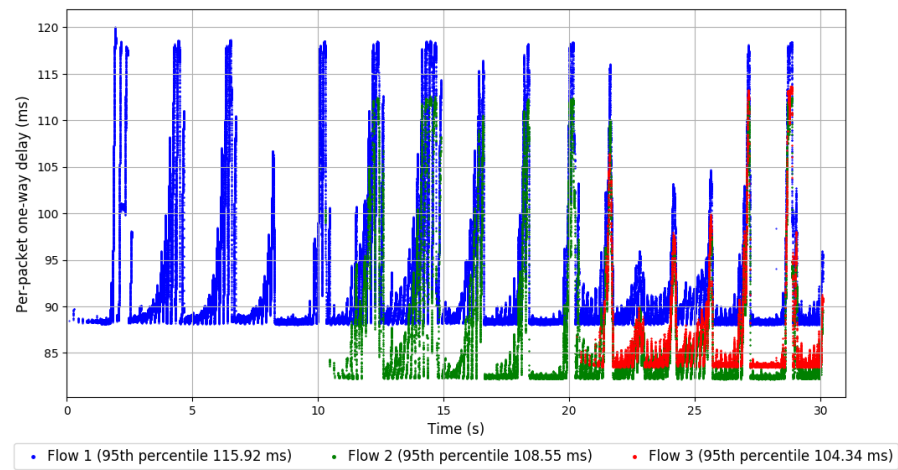
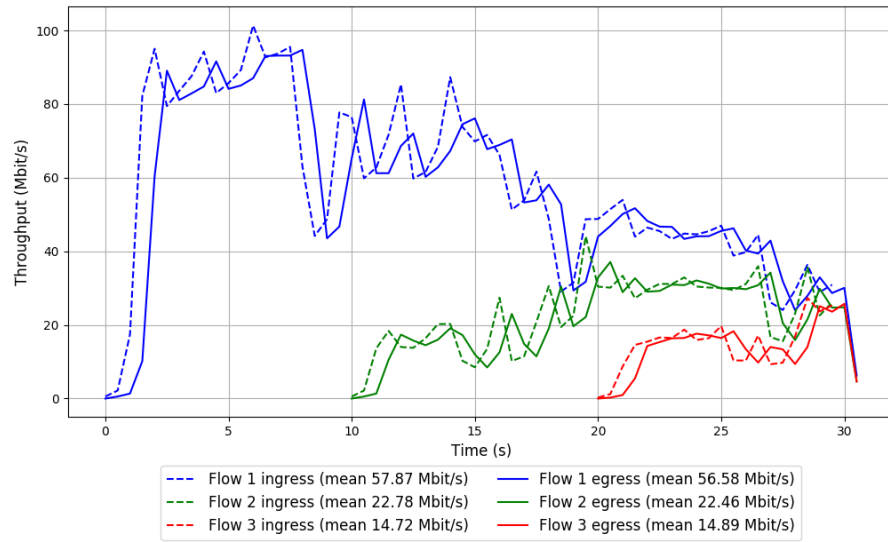


Run 9: Statistics of Copa

Start at: 2018-05-30 18:36:50
End at: 2018-05-30 18:37:20
Local clock offset: -2.981 ms
Remote clock offset: 15.219 ms

Below is generated by plot.py at 2018-05-30 19:15:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.40 Mbit/s
95th percentile per-packet one-way delay: 112.881 ms
Loss rate: 1.98%
-- Flow 1:
Average throughput: 56.58 Mbit/s
95th percentile per-packet one-way delay: 115.915 ms
Loss rate: 2.21%
-- Flow 2:
Average throughput: 22.46 Mbit/s
95th percentile per-packet one-way delay: 108.546 ms
Loss rate: 1.48%
-- Flow 3:
Average throughput: 14.89 Mbit/s
95th percentile per-packet one-way delay: 104.336 ms
Loss rate: 0.84%

Run 9: Report of Copa — Data Link

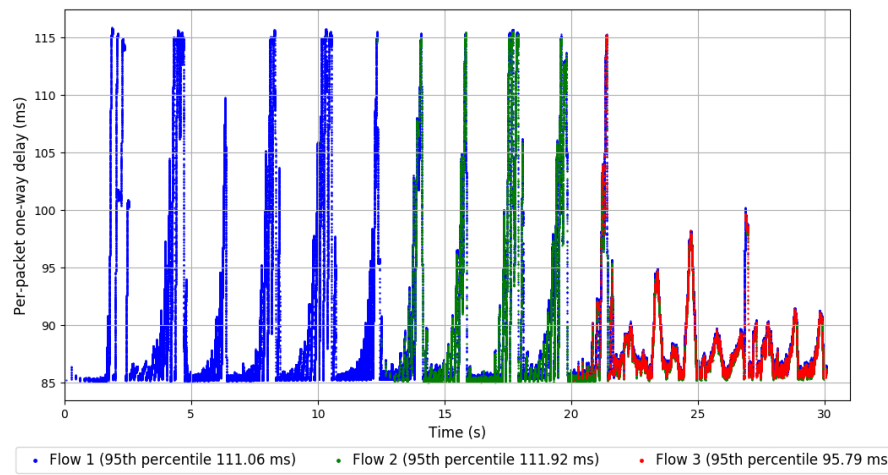
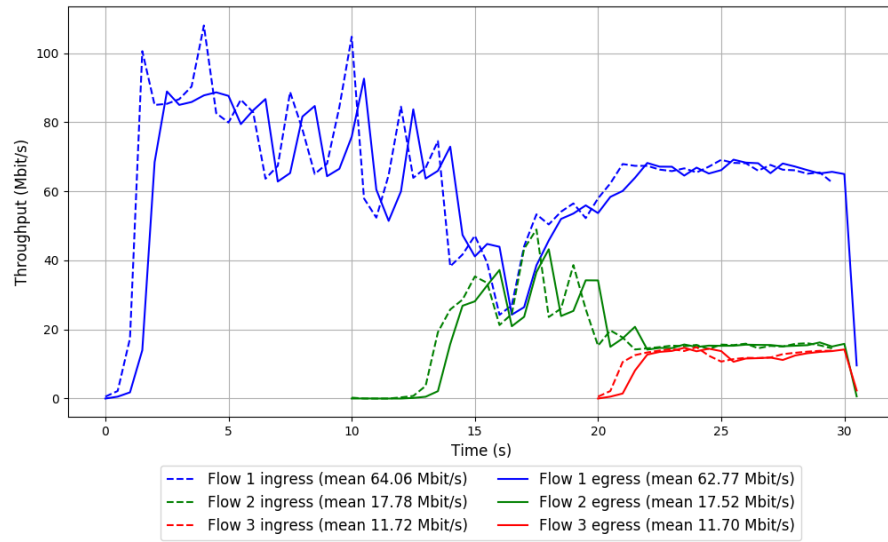


Run 10: Statistics of Copa

Start at: 2018-05-30 18:56:56
End at: 2018-05-30 18:57:26
Local clock offset: -4.504 ms
Remote clock offset: 14.348 ms

Below is generated by plot.py at 2018-05-30 19:15:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.31 Mbit/s
95th percentile per-packet one-way delay: 110.760 ms
Loss rate: 1.85%
-- Flow 1:
Average throughput: 62.77 Mbit/s
95th percentile per-packet one-way delay: 111.065 ms
Loss rate: 2.01%
-- Flow 2:
Average throughput: 17.52 Mbit/s
95th percentile per-packet one-way delay: 111.920 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 11.70 Mbit/s
95th percentile per-packet one-way delay: 95.790 ms
Loss rate: 0.14%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-05-30 16:04:49

End at: 2018-05-30 16:05:19

Local clock offset: -2.403 ms

Remote clock offset: 9.167 ms

Below is generated by plot.py at 2018-05-30 19:15:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.50 Mbit/s

95th percentile per-packet one-way delay: 110.147 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 52.87 Mbit/s

95th percentile per-packet one-way delay: 108.827 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 38.78 Mbit/s

95th percentile per-packet one-way delay: 110.533 ms

Loss rate: 0.37%

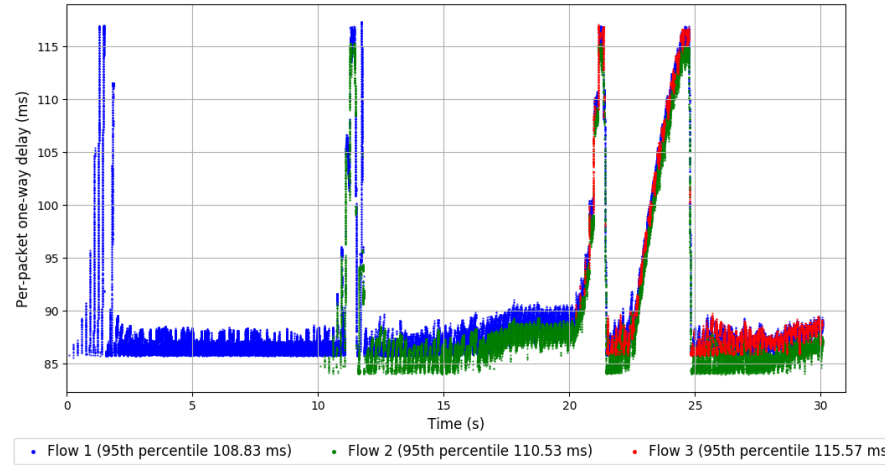
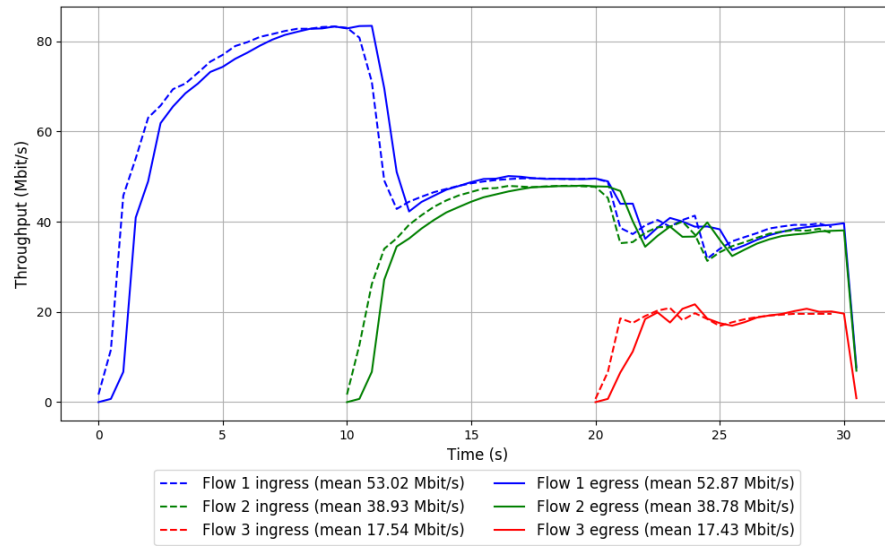
-- Flow 3:

Average throughput: 17.43 Mbit/s

95th percentile per-packet one-way delay: 115.568 ms

Loss rate: 0.66%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-05-30 16:24:55

End at: 2018-05-30 16:25:25

Local clock offset: -1.543 ms

Remote clock offset: 8.67 ms

Below is generated by plot.py at 2018-05-30 19:15:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.90 Mbit/s

95th percentile per-packet one-way delay: 112.803 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 39.36 Mbit/s

95th percentile per-packet one-way delay: 114.584 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 47.58 Mbit/s

95th percentile per-packet one-way delay: 112.327 ms

Loss rate: 0.43%

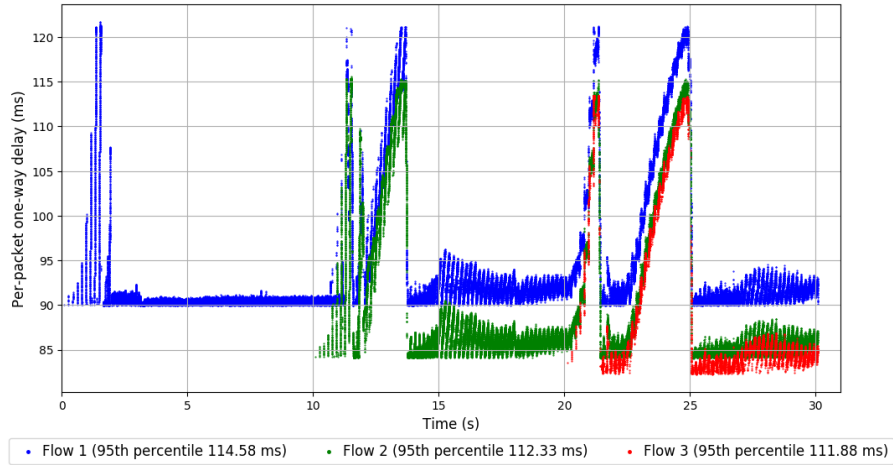
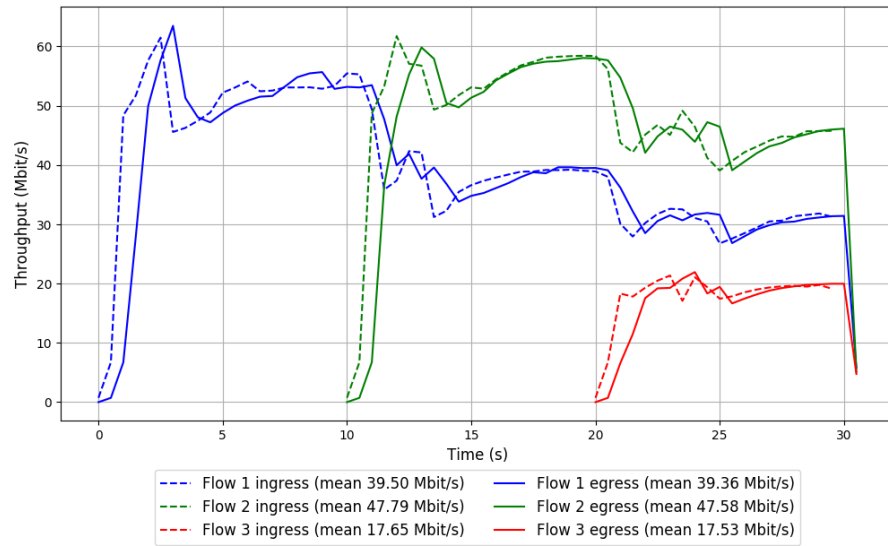
-- Flow 3:

Average throughput: 17.53 Mbit/s

95th percentile per-packet one-way delay: 111.884 ms

Loss rate: 0.70%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-05-30 16:45:10

End at: 2018-05-30 16:45:40

Local clock offset: -2.053 ms

Remote clock offset: 8.62 ms

Below is generated by plot.py at 2018-05-30 19:15:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.09 Mbit/s

95th percentile per-packet one-way delay: 111.660 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 54.84 Mbit/s

95th percentile per-packet one-way delay: 109.563 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 36.84 Mbit/s

95th percentile per-packet one-way delay: 113.640 ms

Loss rate: 0.72%

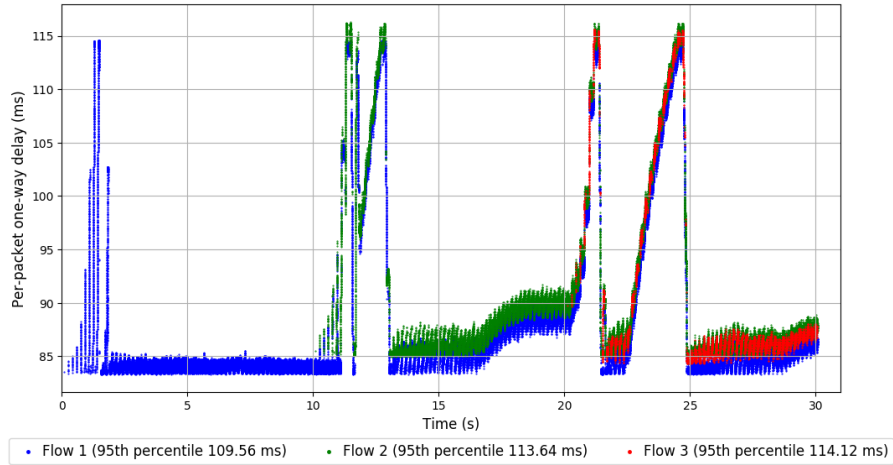
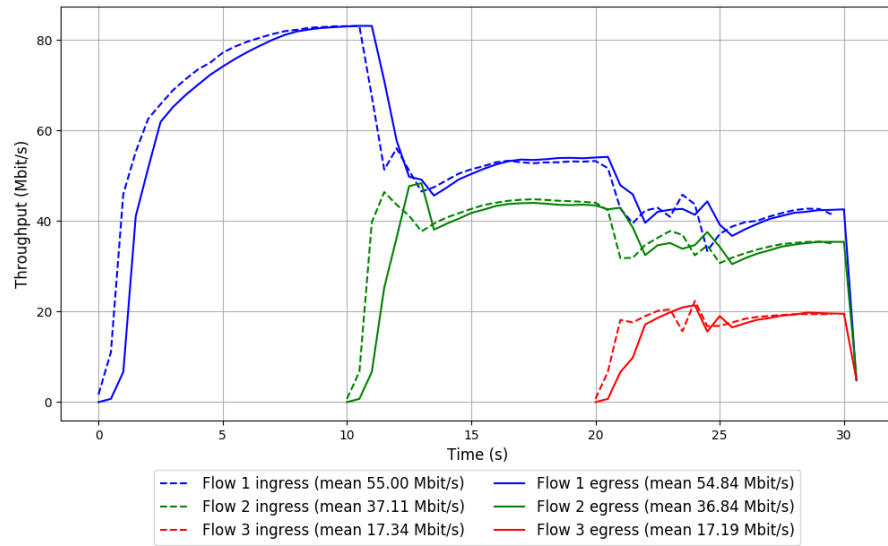
-- Flow 3:

Average throughput: 17.19 Mbit/s

95th percentile per-packet one-way delay: 114.124 ms

Loss rate: 0.87%

Run 3: Report of TCP Cubic — Data Link

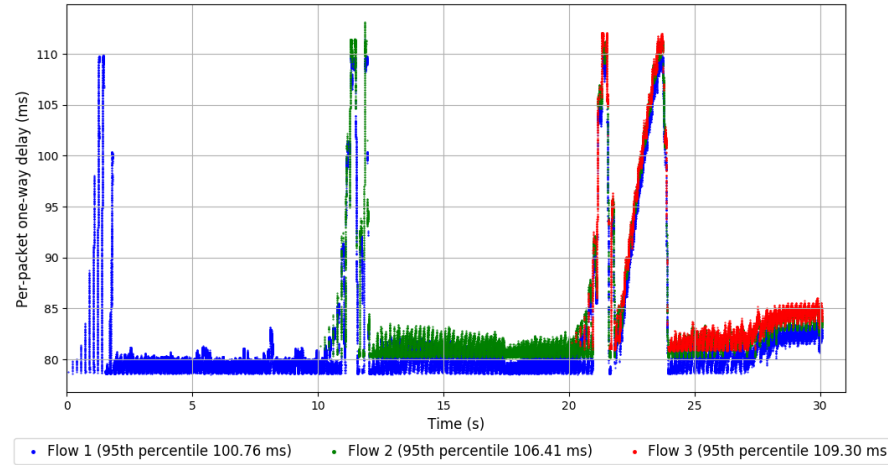
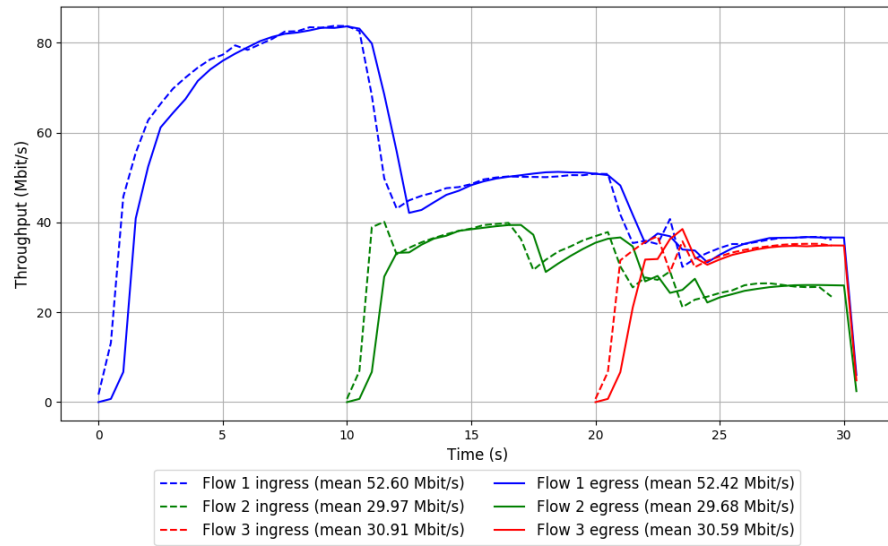


Run 4: Statistics of TCP Cubic

Start at: 2018-05-30 17:05:24
End at: 2018-05-30 17:05:54
Local clock offset: -1.033 ms
Remote clock offset: 4.752 ms

Below is generated by plot.py at 2018-05-30 19:15:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.35 Mbit/s
95th percentile per-packet one-way delay: 104.825 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 52.42 Mbit/s
95th percentile per-packet one-way delay: 100.758 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 29.68 Mbit/s
95th percentile per-packet one-way delay: 106.410 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 30.59 Mbit/s
95th percentile per-packet one-way delay: 109.296 ms
Loss rate: 1.01%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-05-30 17:25:31

End at: 2018-05-30 17:26:01

Local clock offset: -3.121 ms

Remote clock offset: 7.834 ms

Below is generated by plot.py at 2018-05-30 19:15:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.34 Mbit/s

95th percentile per-packet one-way delay: 112.408 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 36.17 Mbit/s

95th percentile per-packet one-way delay: 110.941 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 49.22 Mbit/s

95th percentile per-packet one-way delay: 113.129 ms

Loss rate: 0.39%

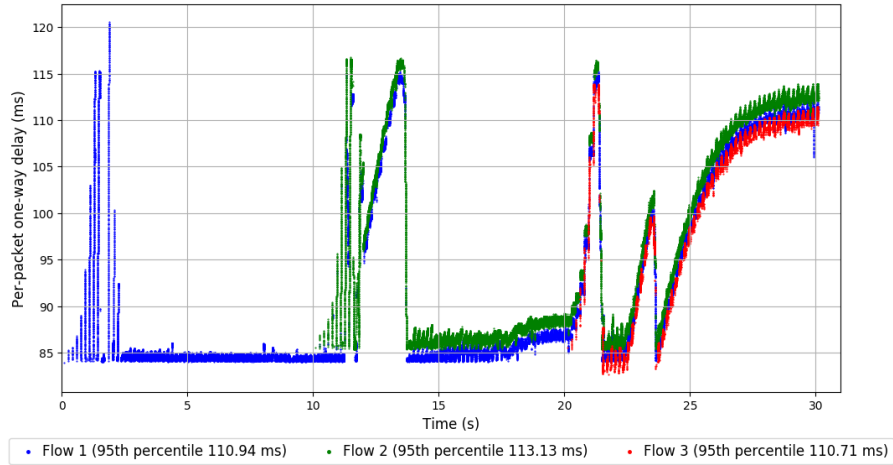
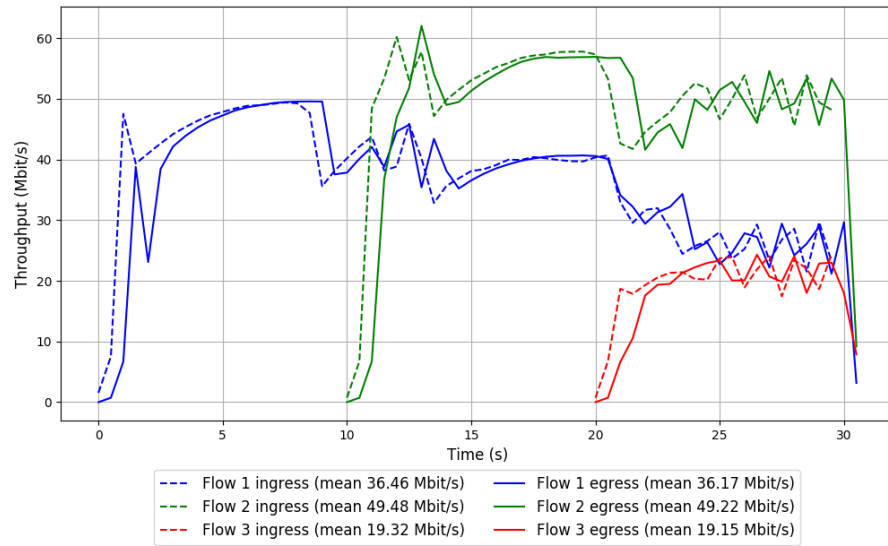
-- Flow 3:

Average throughput: 19.15 Mbit/s

95th percentile per-packet one-way delay: 110.708 ms

Loss rate: 0.67%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-05-30 17:45:33

End at: 2018-05-30 17:46:03

Local clock offset: -2.301 ms

Remote clock offset: 4.536 ms

Below is generated by plot.py at 2018-05-30 19:15:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.11 Mbit/s

95th percentile per-packet one-way delay: 102.200 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 52.92 Mbit/s

95th percentile per-packet one-way delay: 101.704 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 31.63 Mbit/s

95th percentile per-packet one-way delay: 103.204 ms

Loss rate: 0.88%

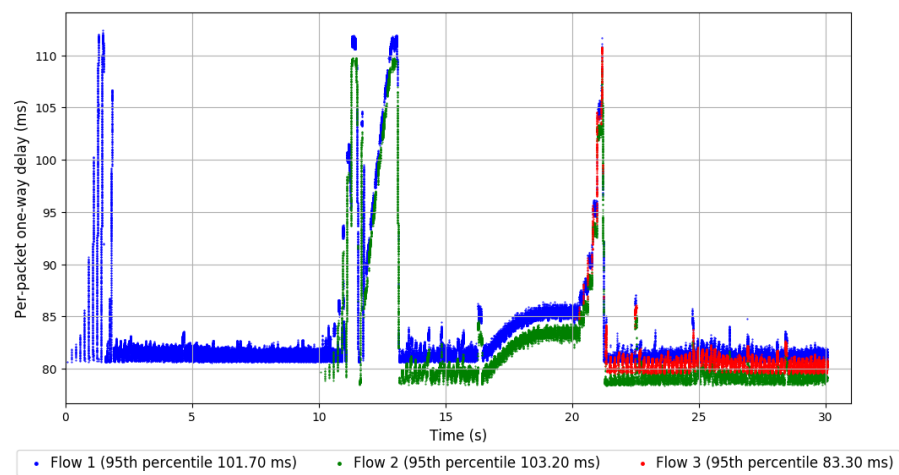
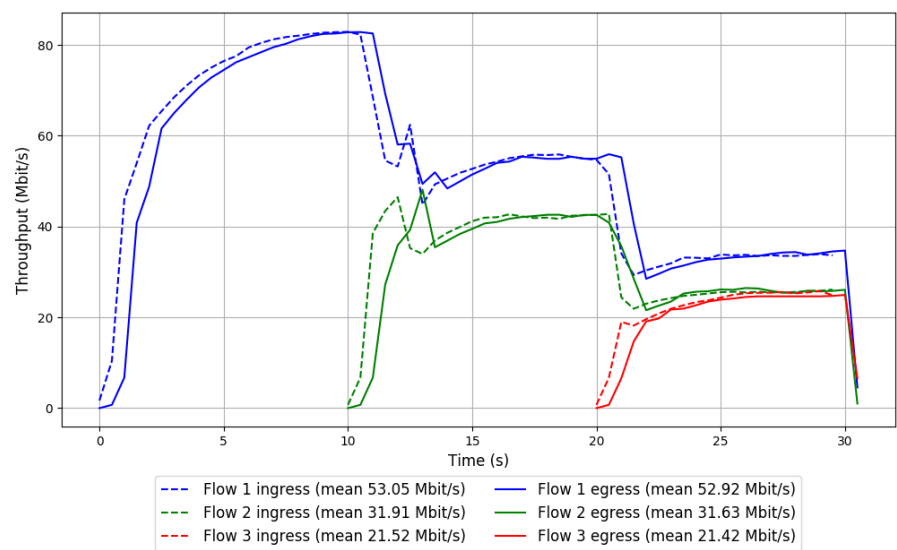
-- Flow 3:

Average throughput: 21.42 Mbit/s

95th percentile per-packet one-way delay: 83.297 ms

Loss rate: 0.48%

Run 6: Report of TCP Cubic — Data Link

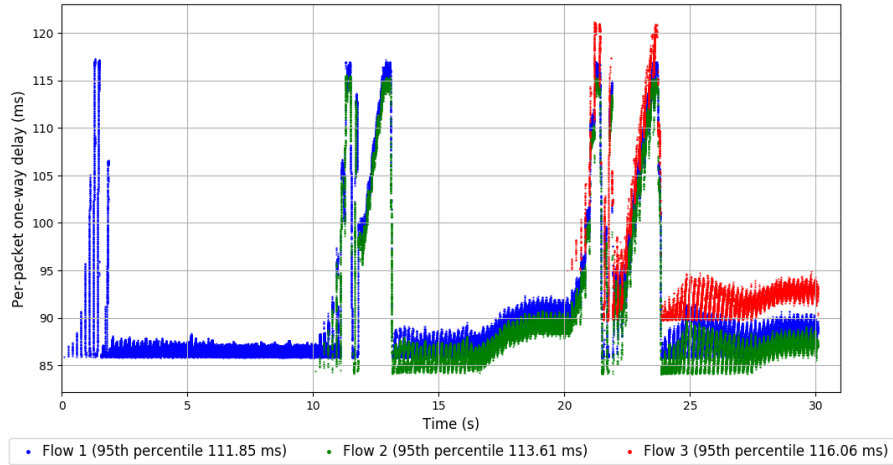
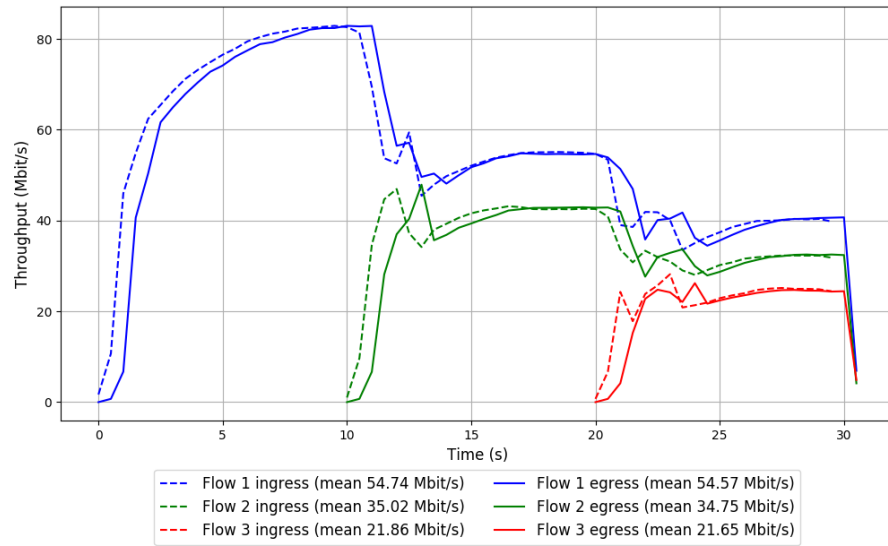


Run 7: Statistics of TCP Cubic

Start at: 2018-05-30 18:05:33
End at: 2018-05-30 18:06:03
Local clock offset: -3.043 ms
Remote clock offset: 13.921 ms

Below is generated by plot.py at 2018-05-30 19:15:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.91 Mbit/s
95th percentile per-packet one-way delay: 112.681 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 54.57 Mbit/s
95th percentile per-packet one-way delay: 111.847 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 34.75 Mbit/s
95th percentile per-packet one-way delay: 113.606 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 21.65 Mbit/s
95th percentile per-packet one-way delay: 116.064 ms
Loss rate: 1.02%

Run 7: Report of TCP Cubic — Data Link

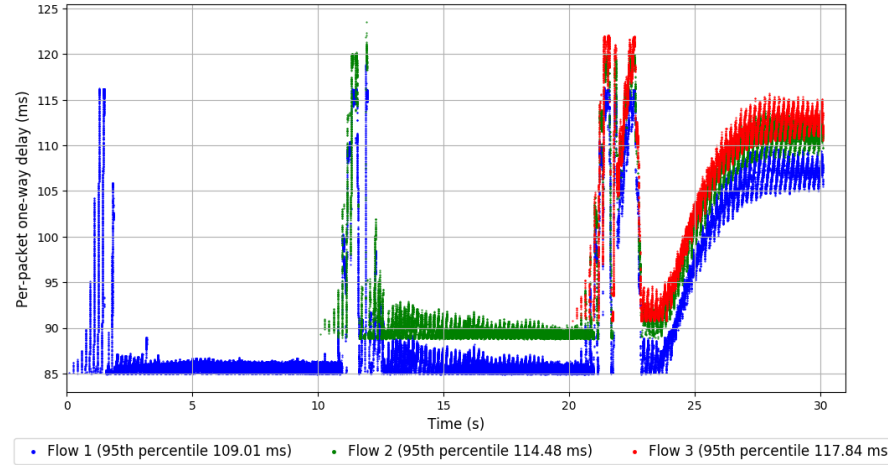
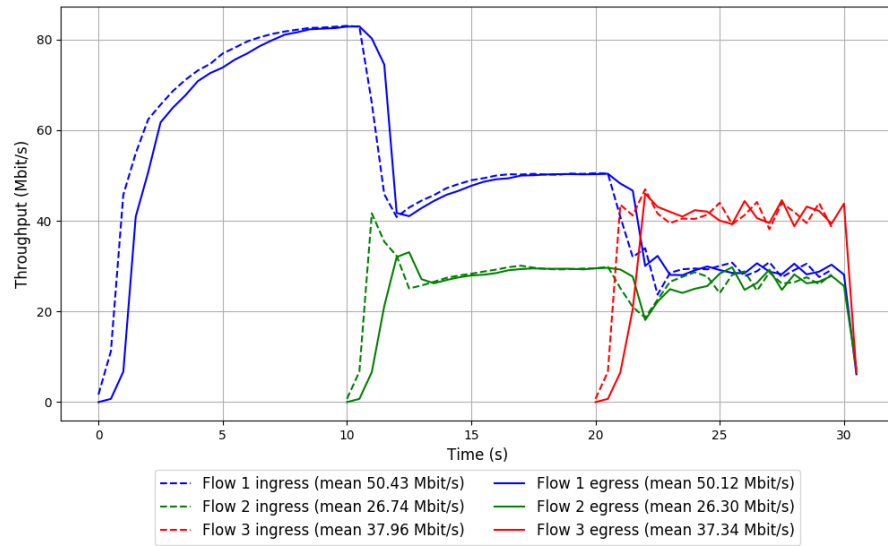


Run 8: Statistics of TCP Cubic

Start at: 2018-05-30 18:25:39
End at: 2018-05-30 18:26:09
Local clock offset: -3.554 ms
Remote clock offset: 14.594 ms

Below is generated by plot.py at 2018-05-30 19:15:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.07 Mbit/s
95th percentile per-packet one-way delay: 113.365 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 50.12 Mbit/s
95th percentile per-packet one-way delay: 109.010 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 26.30 Mbit/s
95th percentile per-packet one-way delay: 114.477 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 37.34 Mbit/s
95th percentile per-packet one-way delay: 117.843 ms
Loss rate: 1.43%

Run 8: Report of TCP Cubic — Data Link

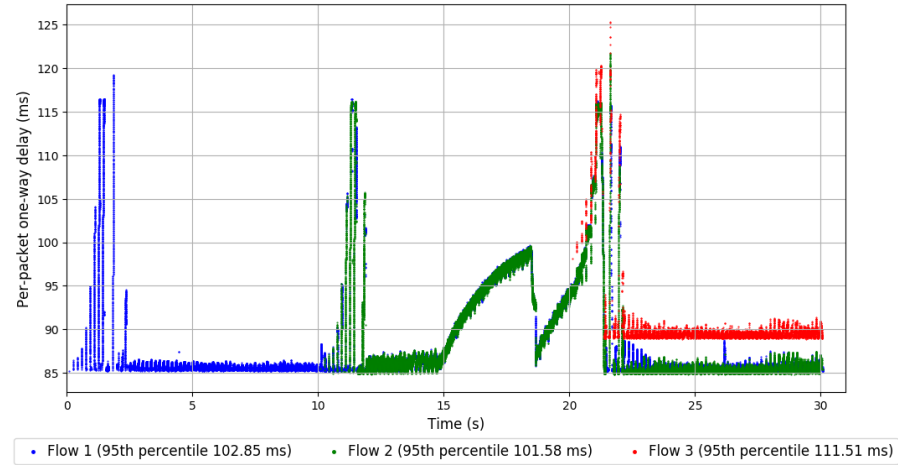
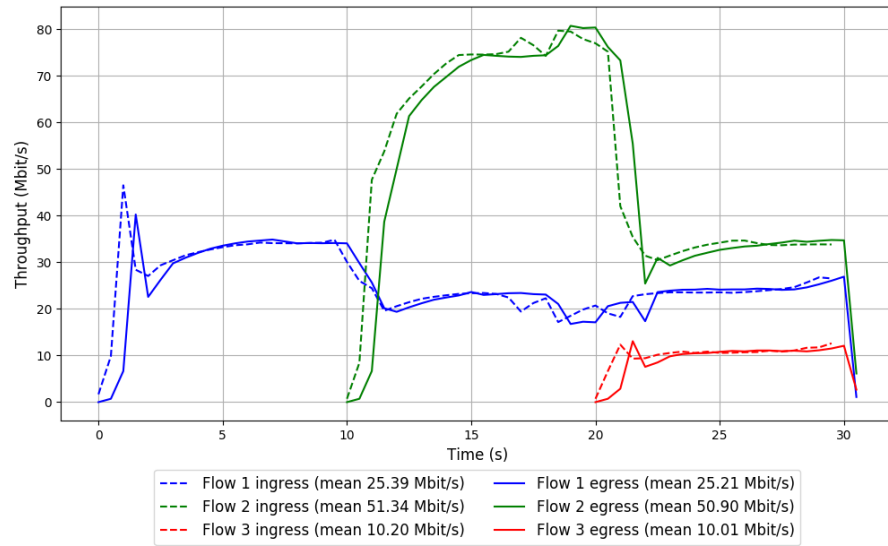


Run 9: Statistics of TCP Cubic

Start at: 2018-05-30 18:45:46
End at: 2018-05-30 18:46:16
Local clock offset: -4.193 ms
Remote clock offset: 15.608 ms

Below is generated by plot.py at 2018-05-30 19:15:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.44 Mbit/s
95th percentile per-packet one-way delay: 101.954 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 25.21 Mbit/s
95th percentile per-packet one-way delay: 102.848 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 50.90 Mbit/s
95th percentile per-packet one-way delay: 101.576 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 10.01 Mbit/s
95th percentile per-packet one-way delay: 111.509 ms
Loss rate: 1.96%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-05-30 19:05:50

End at: 2018-05-30 19:06:20

Local clock offset: -5.477 ms

Remote clock offset: 8.983 ms

Below is generated by plot.py at 2018-05-30 19:16:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.25 Mbit/s

95th percentile per-packet one-way delay: 112.246 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 53.94 Mbit/s

95th percentile per-packet one-way delay: 111.606 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 38.97 Mbit/s

95th percentile per-packet one-way delay: 112.792 ms

Loss rate: 0.62%

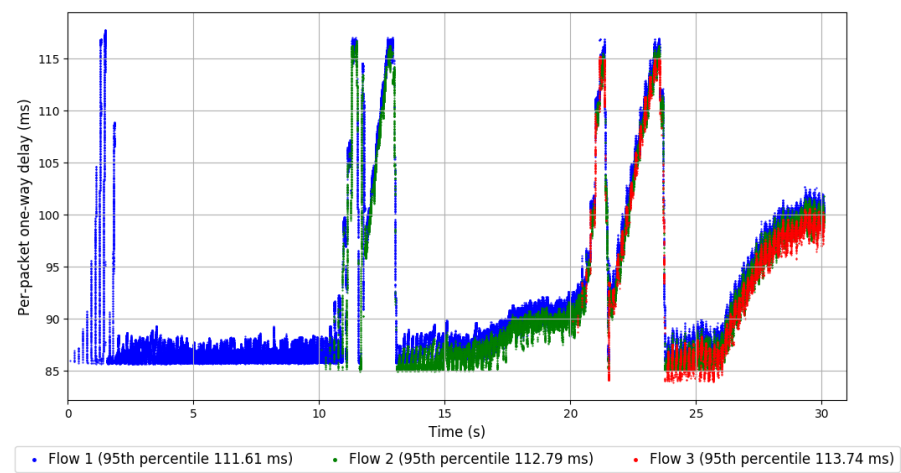
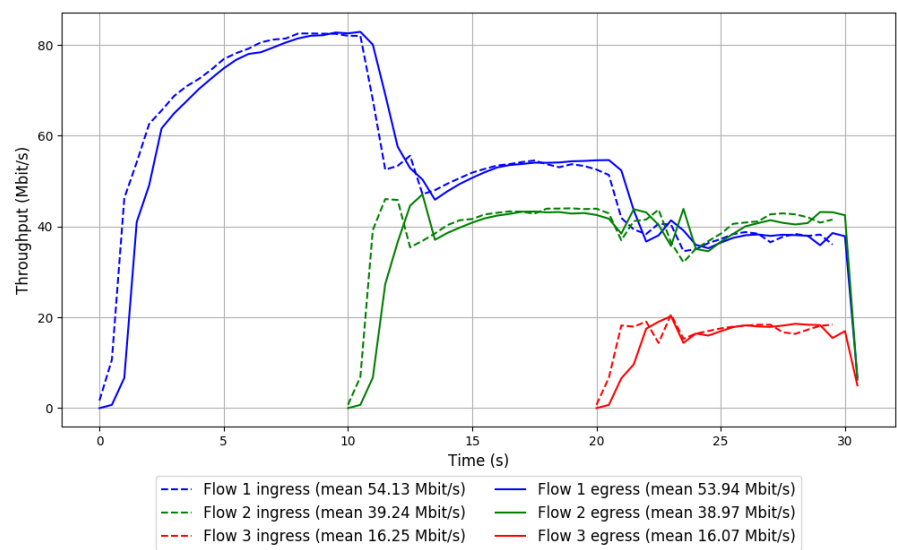
-- Flow 3:

Average throughput: 16.07 Mbit/s

95th percentile per-packet one-way delay: 113.741 ms

Loss rate: 1.04%

Run 10: Report of TCP Cubic — Data Link

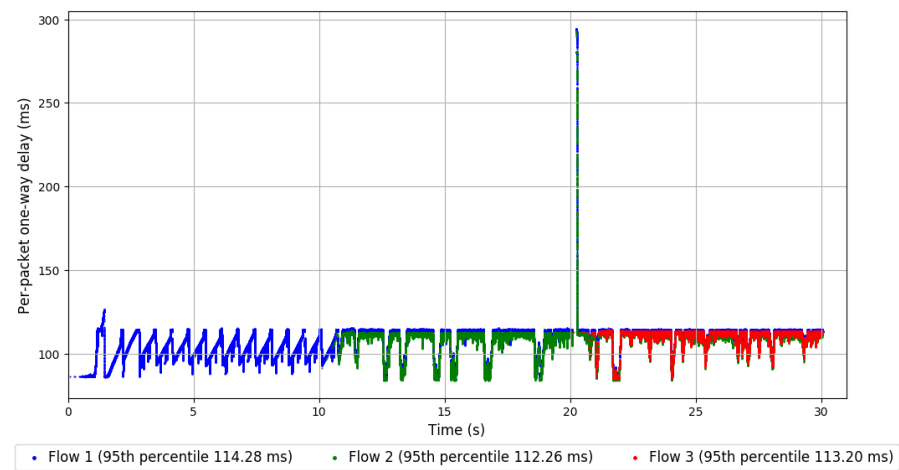
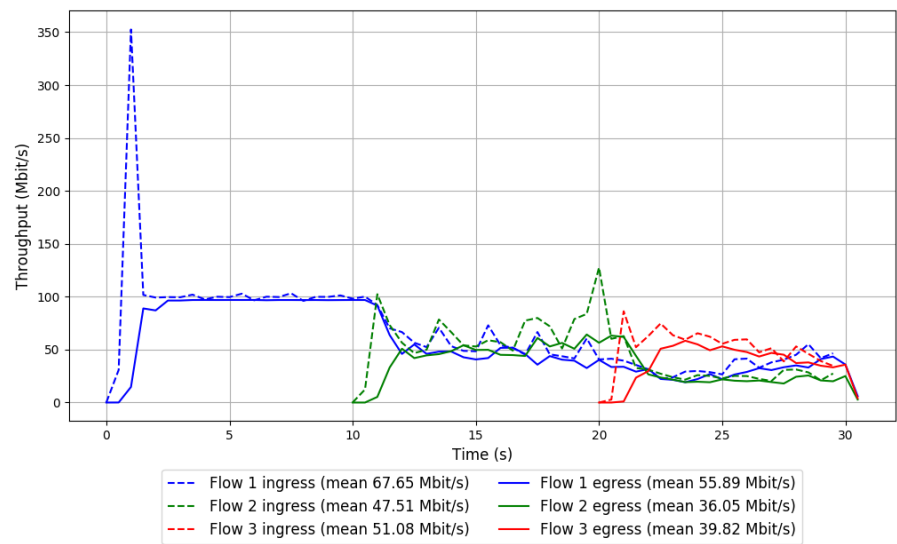


Run 1: Statistics of FillP

Start at: 2018-05-30 16:02:12
End at: 2018-05-30 16:02:42
Local clock offset: -1.714 ms
Remote clock offset: 10.014 ms

Below is generated by plot.py at 2018-05-30 19:16:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.07 Mbit/s
95th percentile per-packet one-way delay: 114.181 ms
Loss rate: 19.83%
-- Flow 1:
Average throughput: 55.89 Mbit/s
95th percentile per-packet one-way delay: 114.284 ms
Loss rate: 17.31%
-- Flow 2:
Average throughput: 36.05 Mbit/s
95th percentile per-packet one-way delay: 112.260 ms
Loss rate: 24.05%
-- Flow 3:
Average throughput: 39.82 Mbit/s
95th percentile per-packet one-way delay: 113.204 ms
Loss rate: 22.03%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-05-30 16:22:19

End at: 2018-05-30 16:22:49

Local clock offset: -2.343 ms

Remote clock offset: 4.037 ms

Below is generated by plot.py at 2018-05-30 19:16:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.35 Mbit/s

95th percentile per-packet one-way delay: 108.462 ms

Loss rate: 16.36%

-- Flow 1:

Average throughput: 58.97 Mbit/s

95th percentile per-packet one-way delay: 108.466 ms

Loss rate: 16.35%

-- Flow 2:

Average throughput: 41.97 Mbit/s

95th percentile per-packet one-way delay: 108.485 ms

Loss rate: 16.42%

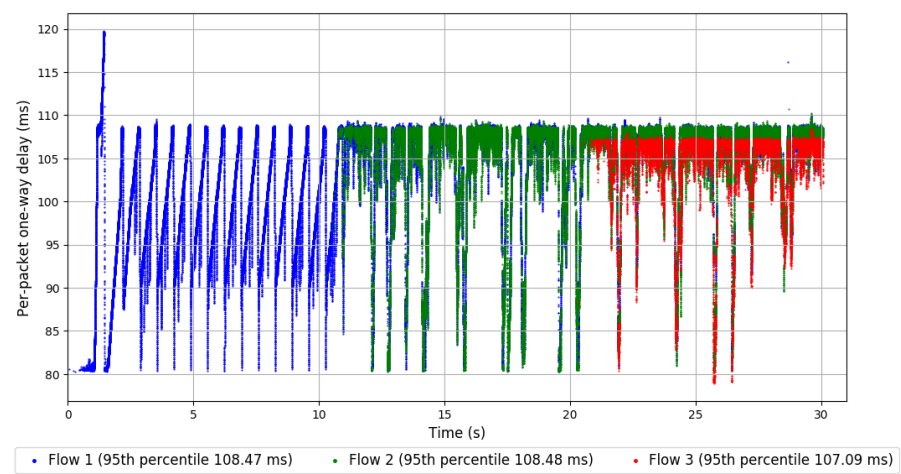
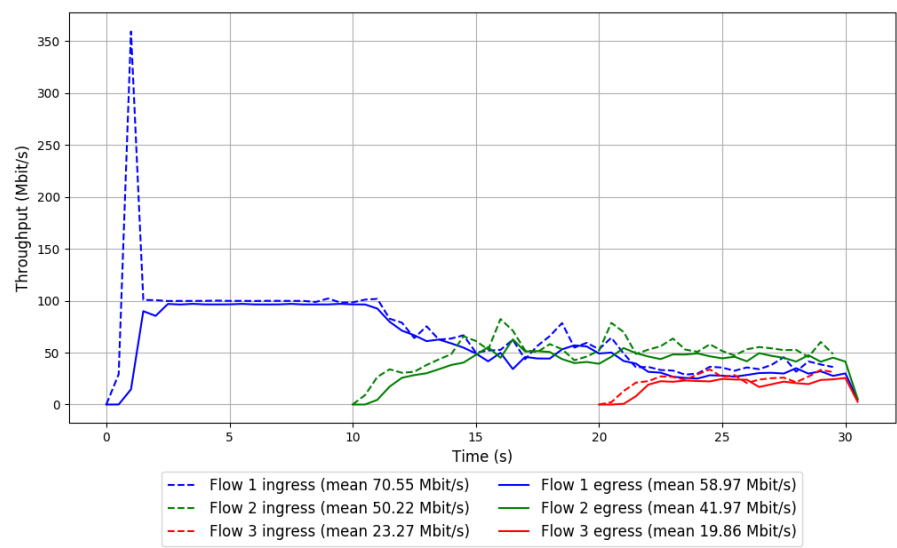
-- Flow 3:

Average throughput: 19.86 Mbit/s

95th percentile per-packet one-way delay: 107.093 ms

Loss rate: 16.27%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-05-30 16:42:33

End at: 2018-05-30 16:43:03

Local clock offset: -2.948 ms

Remote clock offset: 3.852 ms

Below is generated by plot.py at 2018-05-30 19:16:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.19 Mbit/s

95th percentile per-packet one-way delay: 108.996 ms

Loss rate: 17.57%

-- Flow 1:

Average throughput: 58.57 Mbit/s

95th percentile per-packet one-way delay: 108.938 ms

Loss rate: 17.25%

-- Flow 2:

Average throughput: 41.30 Mbit/s

95th percentile per-packet one-way delay: 109.088 ms

Loss rate: 18.35%

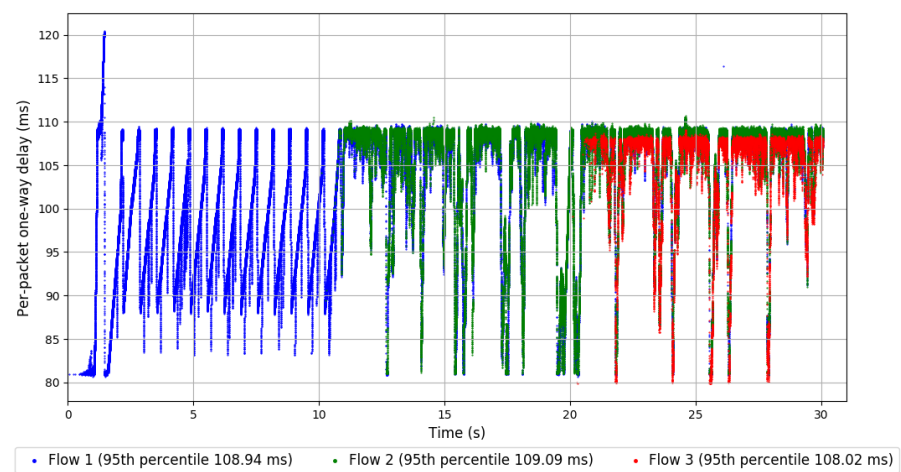
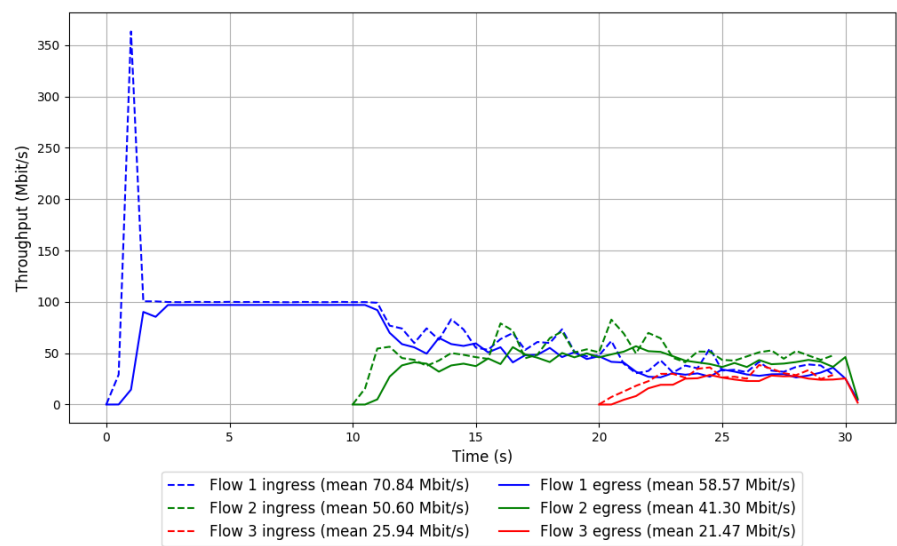
-- Flow 3:

Average throughput: 21.47 Mbit/s

95th percentile per-packet one-way delay: 108.021 ms

Loss rate: 17.17%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-05-30 17:02:44

End at: 2018-05-30 17:03:14

Local clock offset: -2.645 ms

Remote clock offset: 7.914 ms

Below is generated by plot.py at 2018-05-30 19:17:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.66 Mbit/s

95th percentile per-packet one-way delay: 112.816 ms

Loss rate: 16.18%

-- Flow 1:

Average throughput: 65.01 Mbit/s

95th percentile per-packet one-way delay: 111.243 ms

Loss rate: 15.14%

-- Flow 2:

Average throughput: 28.47 Mbit/s

95th percentile per-packet one-way delay: 112.927 ms

Loss rate: 18.26%

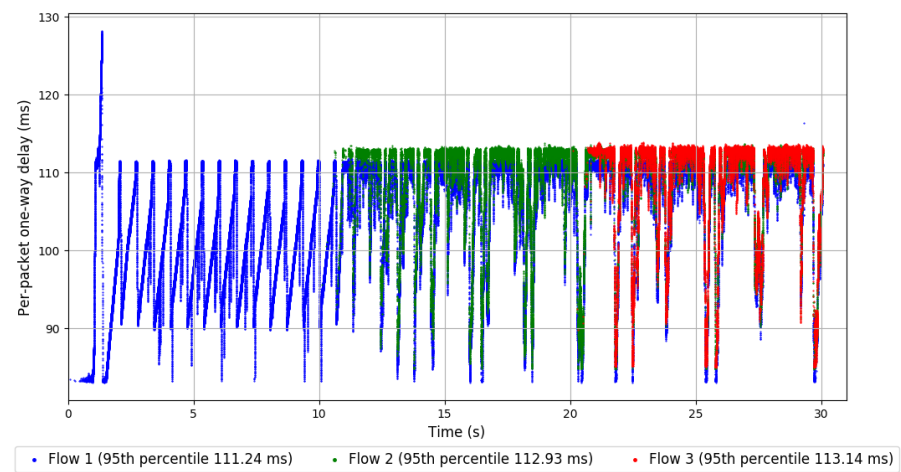
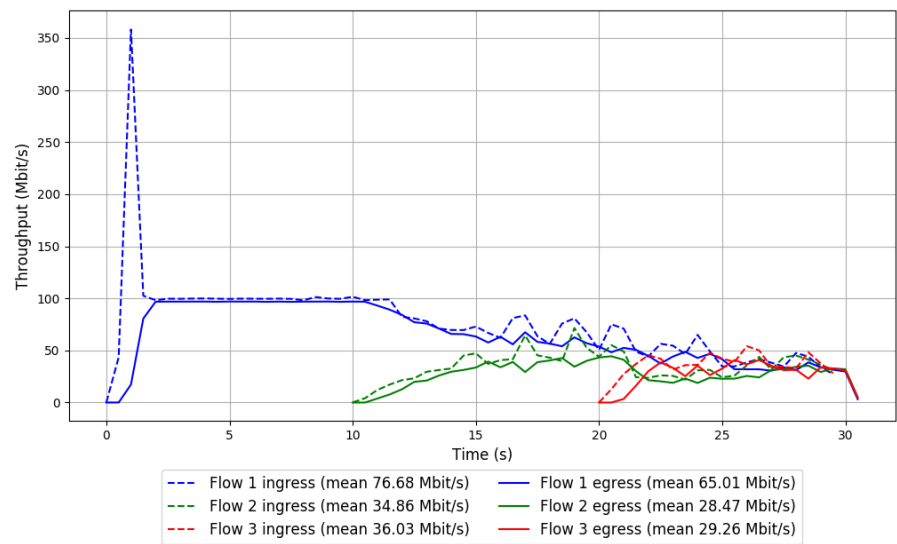
-- Flow 3:

Average throughput: 29.26 Mbit/s

95th percentile per-packet one-way delay: 113.138 ms

Loss rate: 18.81%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-05-30 17:22:56

End at: 2018-05-30 17:23:26

Local clock offset: -2.215 ms

Remote clock offset: 8.637 ms

Below is generated by plot.py at 2018-05-30 19:17:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.36 Mbit/s

95th percentile per-packet one-way delay: 112.187 ms

Loss rate: 15.21%

-- Flow 1:

Average throughput: 63.44 Mbit/s

95th percentile per-packet one-way delay: 110.459 ms

Loss rate: 14.58%

-- Flow 2:

Average throughput: 34.45 Mbit/s

95th percentile per-packet one-way delay: 112.422 ms

Loss rate: 16.59%

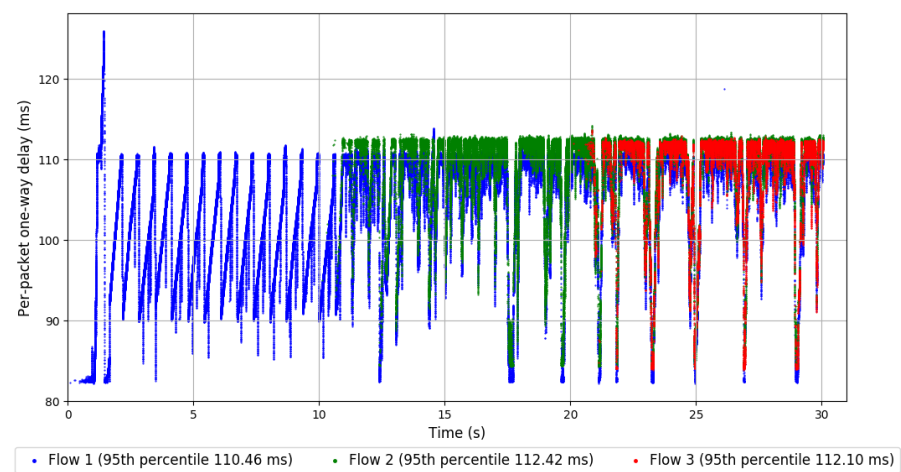
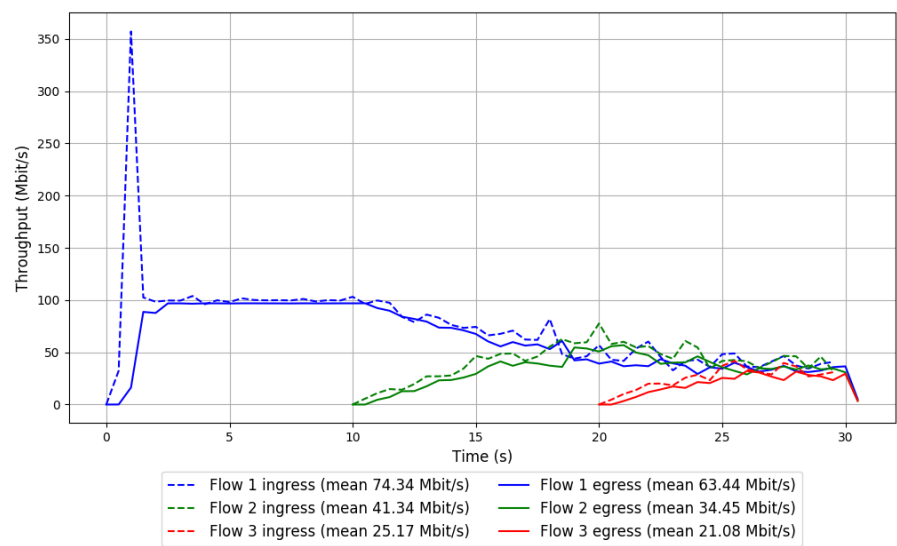
-- Flow 3:

Average throughput: 21.08 Mbit/s

95th percentile per-packet one-way delay: 112.097 ms

Loss rate: 16.26%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-05-30 17:42:56

End at: 2018-05-30 17:43:26

Local clock offset: -2.261 ms

Remote clock offset: 8.427 ms

Below is generated by plot.py at 2018-05-30 19:17:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.32 Mbit/s

95th percentile per-packet one-way delay: 111.079 ms

Loss rate: 18.89%

-- Flow 1:

Average throughput: 58.14 Mbit/s

95th percentile per-packet one-way delay: 110.886 ms

Loss rate: 17.44%

-- Flow 2:

Average throughput: 42.23 Mbit/s

95th percentile per-packet one-way delay: 110.626 ms

Loss rate: 21.58%

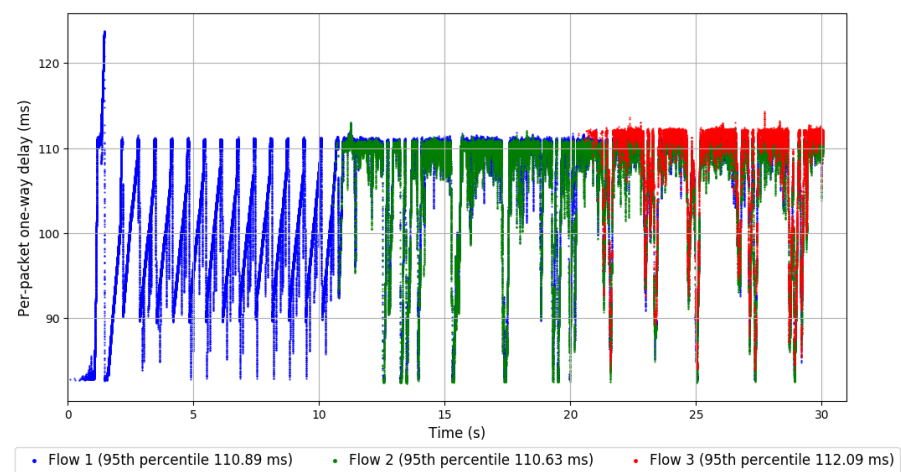
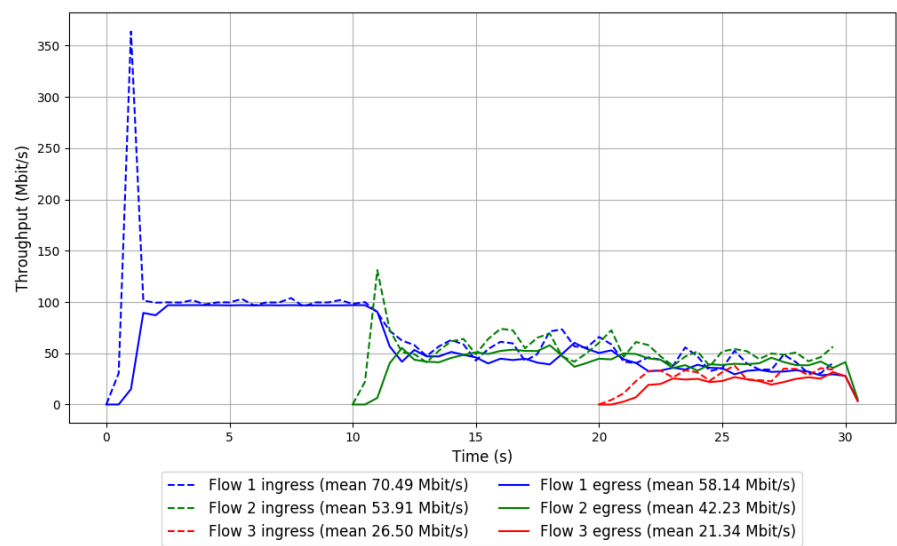
-- Flow 3:

Average throughput: 21.34 Mbit/s

95th percentile per-packet one-way delay: 112.090 ms

Loss rate: 19.46%

Run 6: Report of FillP — Data Link

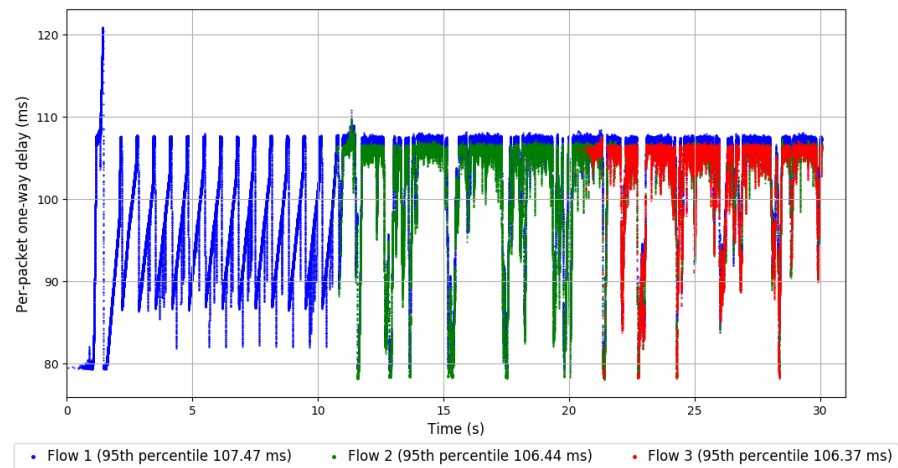
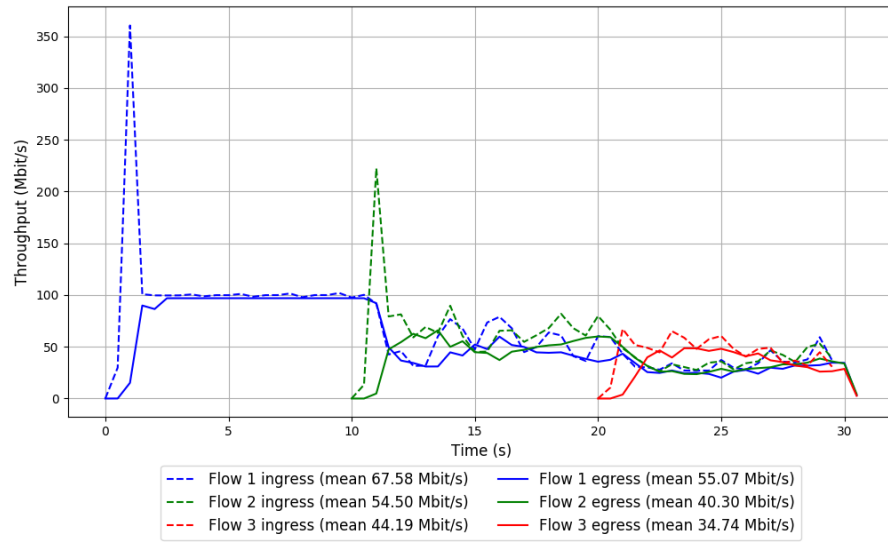


Run 7: Statistics of FillP

Start at: 2018-05-30 18:02:59
End at: 2018-05-30 18:03:29
Local clock offset: -3.003 ms
Remote clock offset: 8.012 ms

Below is generated by plot.py at 2018-05-30 19:17:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.38 Mbit/s
95th percentile per-packet one-way delay: 107.350 ms
Loss rate: 21.13%
-- Flow 1:
Average throughput: 55.07 Mbit/s
95th percentile per-packet one-way delay: 107.469 ms
Loss rate: 18.44%
-- Flow 2:
Average throughput: 40.30 Mbit/s
95th percentile per-packet one-way delay: 106.443 ms
Loss rate: 26.05%
-- Flow 3:
Average throughput: 34.74 Mbit/s
95th percentile per-packet one-way delay: 106.369 ms
Loss rate: 21.37%

Run 7: Report of FillP — Data Link

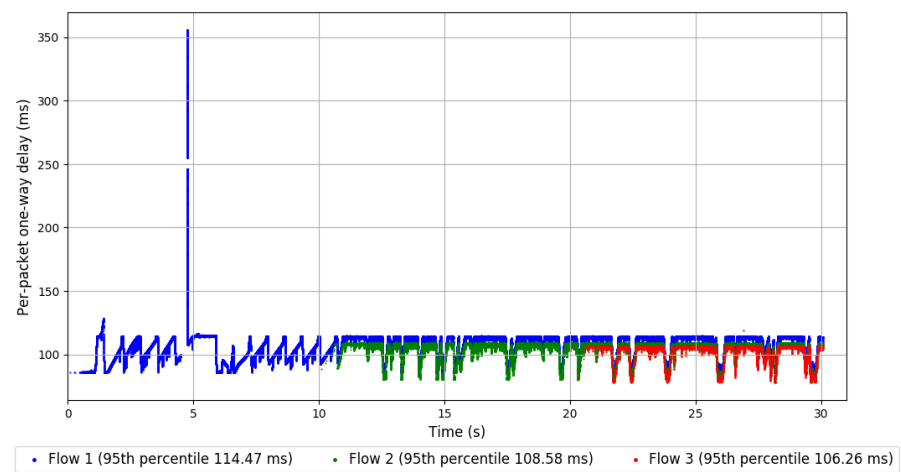
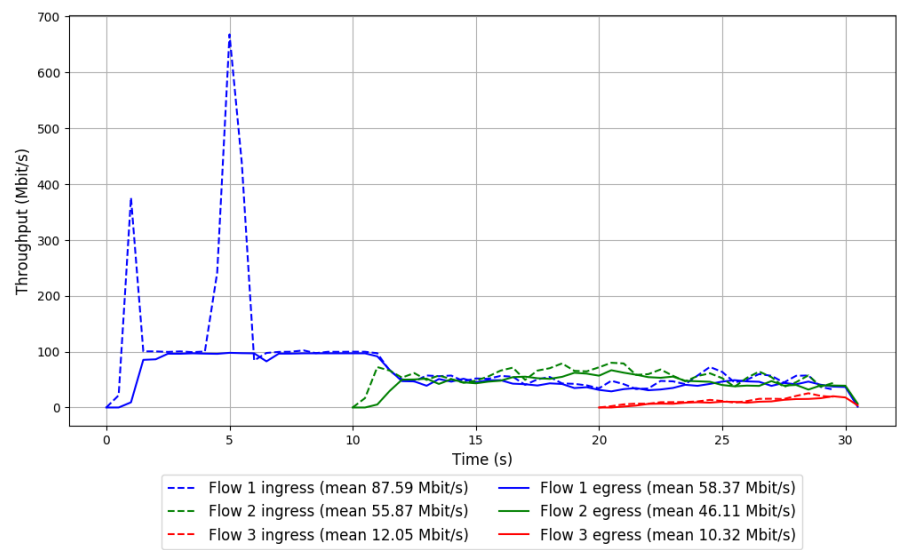


Run 8: Statistics of FillP

Start at: 2018-05-30 18:23:02
End at: 2018-05-30 18:23:32
Local clock offset: -2.727 ms
Remote clock offset: 10.438 ms

Below is generated by plot.py at 2018-05-30 19:17:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.50 Mbit/s
95th percentile per-packet one-way delay: 114.125 ms
Loss rate: 28.13%
-- Flow 1:
Average throughput: 58.37 Mbit/s
95th percentile per-packet one-way delay: 114.471 ms
Loss rate: 33.32%
-- Flow 2:
Average throughput: 46.11 Mbit/s
95th percentile per-packet one-way delay: 108.575 ms
Loss rate: 17.39%
-- Flow 3:
Average throughput: 10.32 Mbit/s
95th percentile per-packet one-way delay: 106.257 ms
Loss rate: 14.35%

Run 8: Report of FillP — Data Link

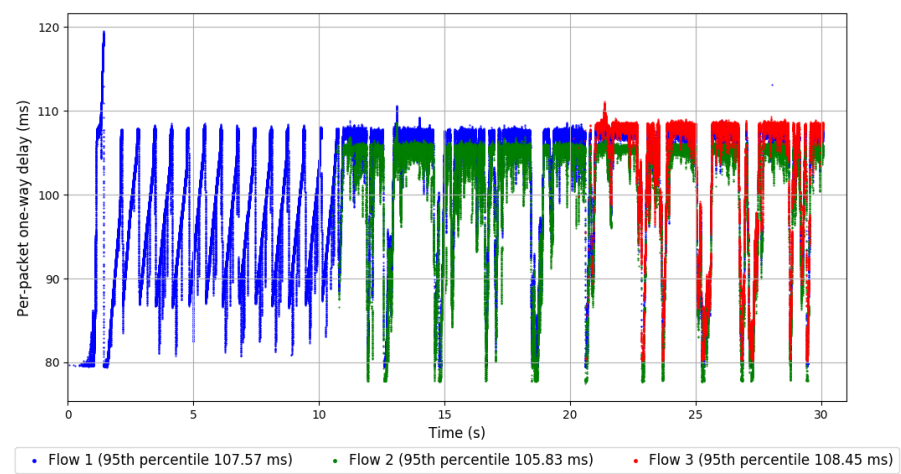
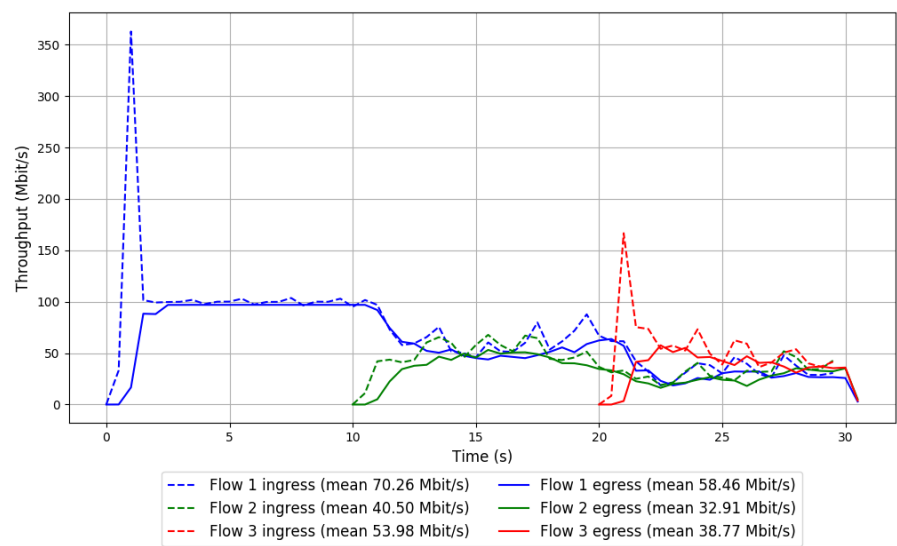


Run 9: Statistics of FillP

Start at: 2018-05-30 18:43:10
End at: 2018-05-30 18:43:40
Local clock offset: -3.333 ms
Remote clock offset: 10.722 ms

Below is generated by plot.py at 2018-05-30 19:18:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.19 Mbit/s
95th percentile per-packet one-way delay: 108.020 ms
Loss rate: 18.96%
-- Flow 1:
Average throughput: 58.46 Mbit/s
95th percentile per-packet one-way delay: 107.567 ms
Loss rate: 16.72%
-- Flow 2:
Average throughput: 32.91 Mbit/s
95th percentile per-packet one-way delay: 105.826 ms
Loss rate: 18.69%
-- Flow 3:
Average throughput: 38.77 Mbit/s
95th percentile per-packet one-way delay: 108.446 ms
Loss rate: 28.16%

Run 9: Report of FillP — Data Link

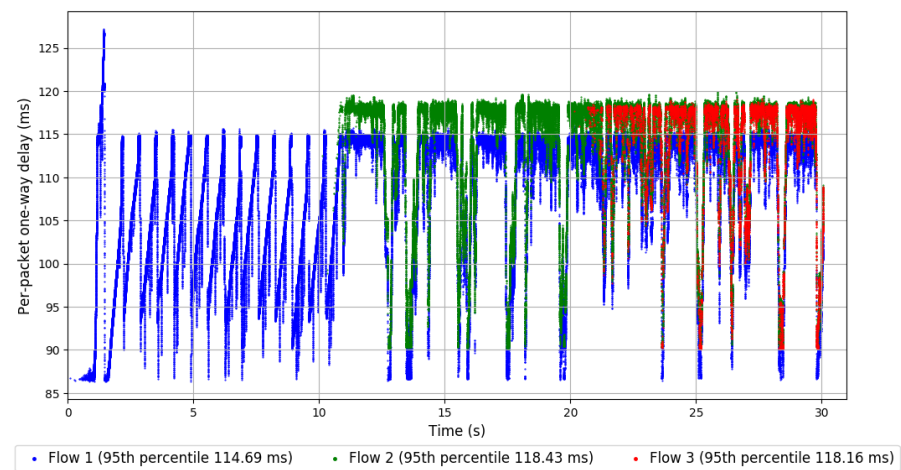
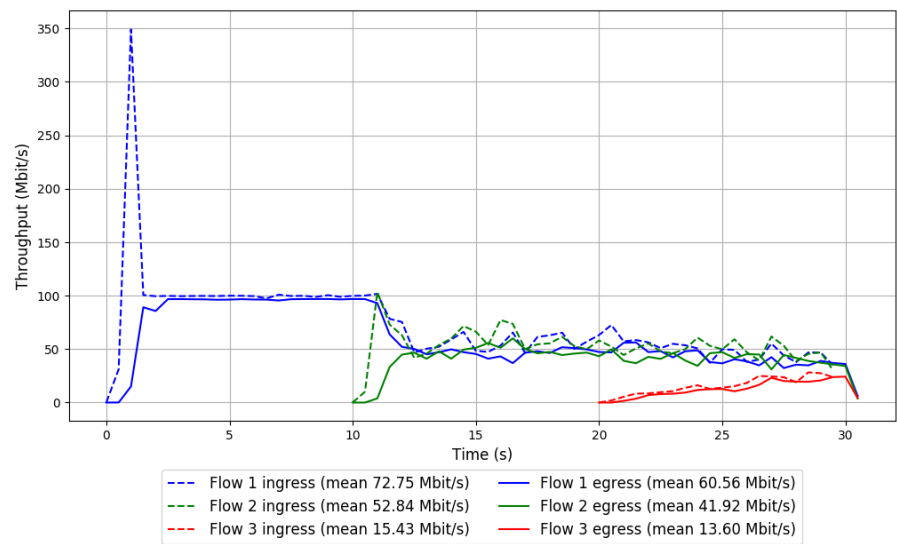


Run 10: Statistics of FillP

Start at: 2018-05-30 19:03:15
End at: 2018-05-30 19:03:45
Local clock offset: -5.484 ms
Remote clock offset: 10.297 ms

Below is generated by plot.py at 2018-05-30 19:18:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.93 Mbit/s
95th percentile per-packet one-way delay: 118.216 ms
Loss rate: 17.73%
-- Flow 1:
Average throughput: 60.56 Mbit/s
95th percentile per-packet one-way delay: 114.692 ms
Loss rate: 16.70%
-- Flow 2:
Average throughput: 41.92 Mbit/s
95th percentile per-packet one-way delay: 118.433 ms
Loss rate: 20.69%
-- Flow 3:
Average throughput: 13.60 Mbit/s
95th percentile per-packet one-way delay: 118.158 ms
Loss rate: 11.91%

Run 10: Report of FillP — Data Link

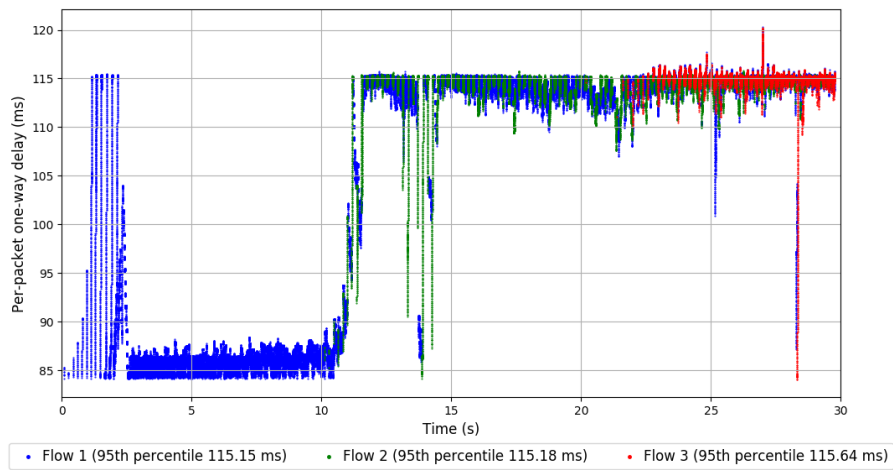
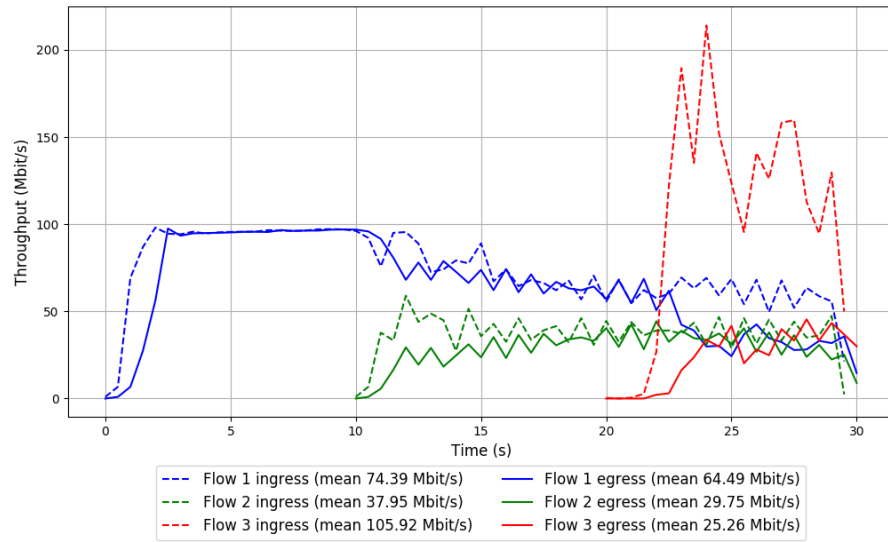


```
Run 1: Statistics of Indigo

Start at: 2018-05-30 15:58:21
End at: 2018-05-30 15:58:51
Local clock offset: -1.684 ms
Remote clock offset: 8.181 ms

# Below is generated by plot.py at 2018-05-30 19:18:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.21 Mbit/s
95th percentile per-packet one-way delay: 115.177 ms
Loss rate: 30.92%
-- Flow 1:
Average throughput: 64.49 Mbit/s
95th percentile per-packet one-way delay: 115.149 ms
Loss rate: 13.22%
-- Flow 2:
Average throughput: 29.75 Mbit/s
95th percentile per-packet one-way delay: 115.184 ms
Loss rate: 21.50%
-- Flow 3:
Average throughput: 25.26 Mbit/s
95th percentile per-packet one-way delay: 115.638 ms
Loss rate: 76.15%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-05-30 16:18:31

End at: 2018-05-30 16:19:01

Local clock offset: -2.261 ms

Remote clock offset: 9.631 ms

Below is generated by plot.py at 2018-05-30 19:18:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.33 Mbit/s

95th percentile per-packet one-way delay: 122.492 ms

Loss rate: 10.81%

-- Flow 1:

Average throughput: 57.03 Mbit/s

95th percentile per-packet one-way delay: 115.114 ms

Loss rate: 7.78%

-- Flow 2:

Average throughput: 34.64 Mbit/s

95th percentile per-packet one-way delay: 122.574 ms

Loss rate: 11.54%

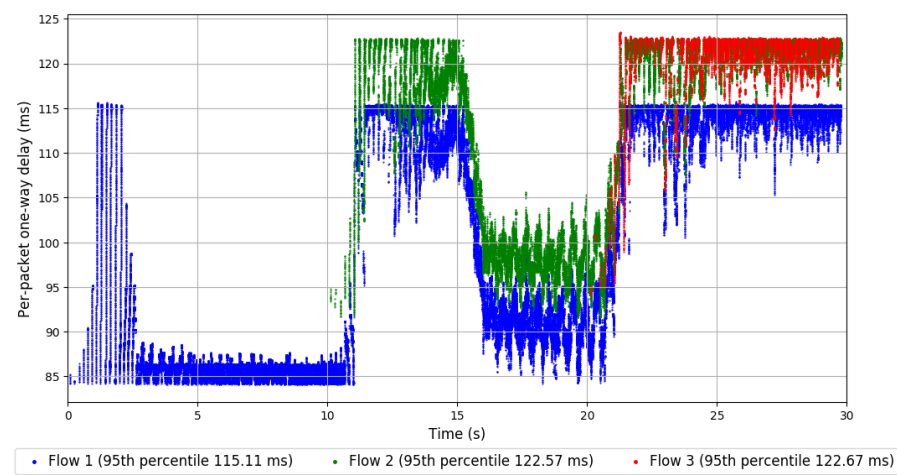
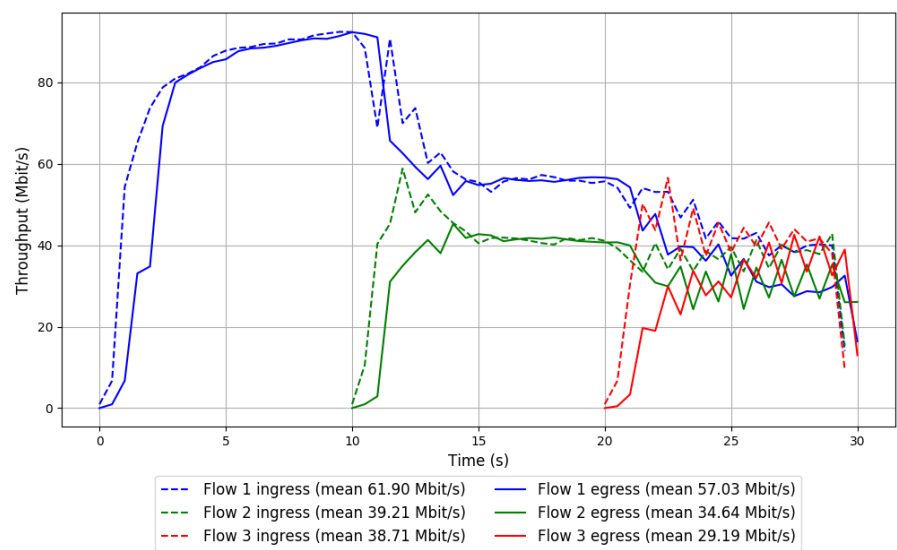
-- Flow 3:

Average throughput: 29.19 Mbit/s

95th percentile per-packet one-way delay: 122.666 ms

Loss rate: 24.37%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-05-30 16:38:44

End at: 2018-05-30 16:39:14

Local clock offset: -2.25 ms

Remote clock offset: 3.862 ms

Below is generated by plot.py at 2018-05-30 19:18:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.51 Mbit/s

95th percentile per-packet one-way delay: 111.066 ms

Loss rate: 31.92%

-- Flow 1:

Average throughput: 67.08 Mbit/s

95th percentile per-packet one-way delay: 111.102 ms

Loss rate: 9.79%

-- Flow 2:

Average throughput: 22.38 Mbit/s

95th percentile per-packet one-way delay: 109.739 ms

Loss rate: 37.98%

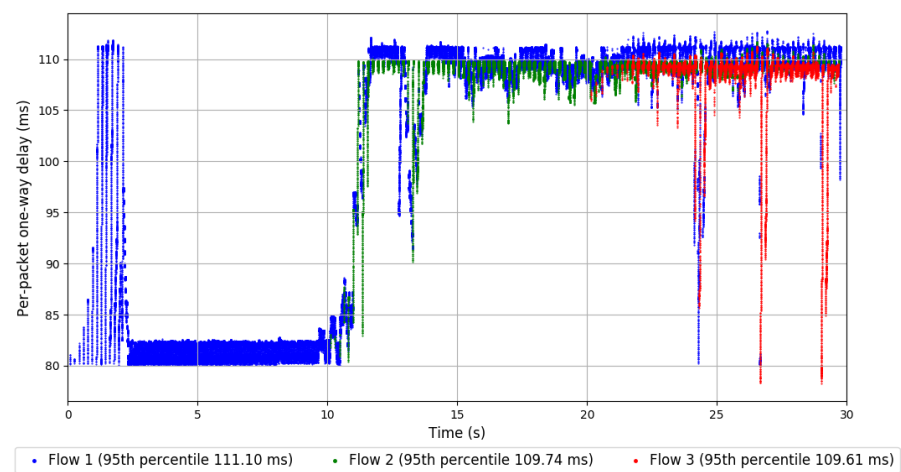
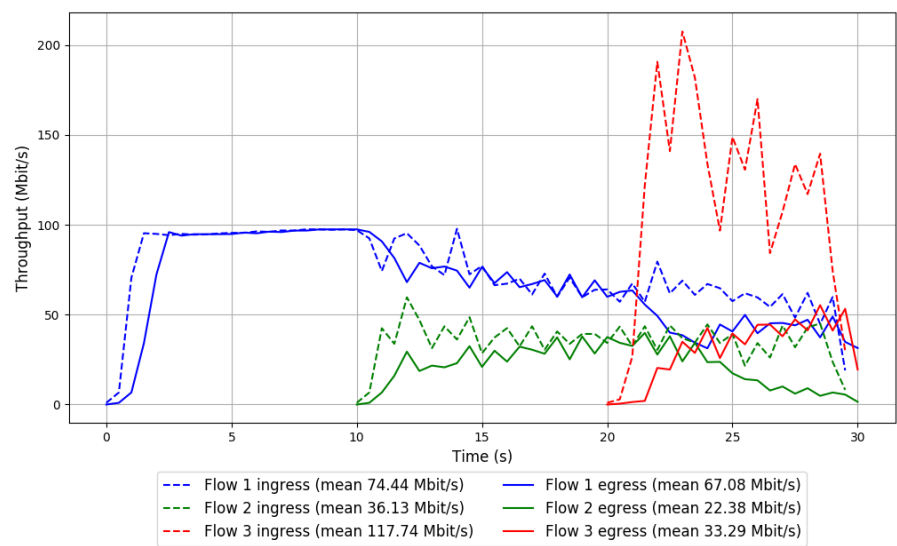
-- Flow 3:

Average throughput: 33.29 Mbit/s

95th percentile per-packet one-way delay: 109.612 ms

Loss rate: 71.71%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-05-30 16:58:56

End at: 2018-05-30 16:59:26

Local clock offset: -1.066 ms

Remote clock offset: 4.666 ms

Below is generated by plot.py at 2018-05-30 19:18:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.40 Mbit/s

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

Loss rate: 21.82%

-- Flow 1:

Average throughput: 63.32 Mbit/s

95th percentile per-packet one-way delay: 110.182 ms

Loss rate: 11.36%

-- Flow 2:

Average throughput: 31.41 Mbit/s

95th percentile per-packet one-way delay: 111.251 ms

Loss rate: 18.15%

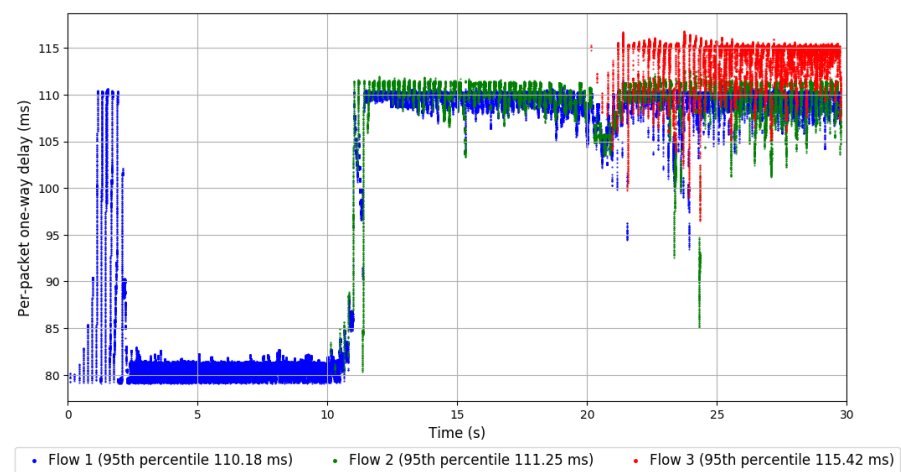
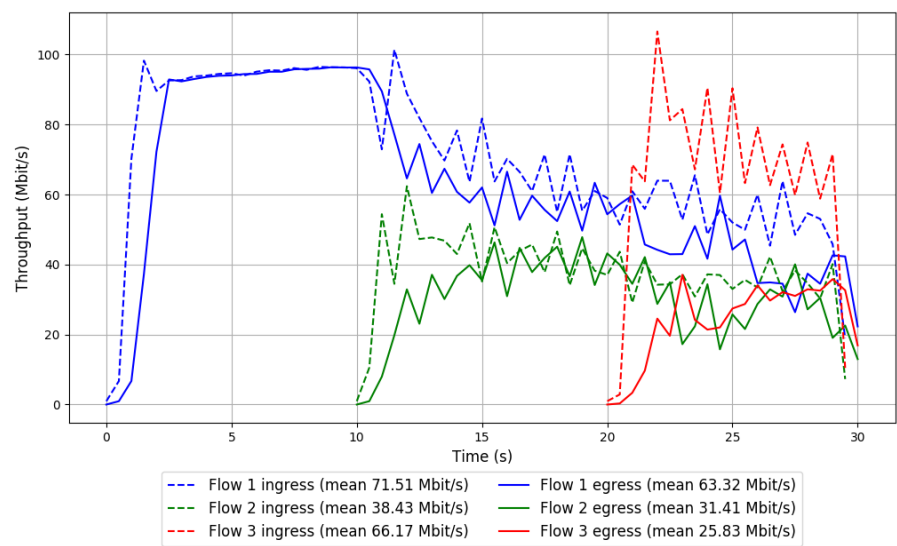
-- Flow 3:

Average throughput: 25.83 Mbit/s

95th percentile per-packet one-way delay: 115.415 ms

Loss rate: 60.99%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-05-30 17:19:08

End at: 2018-05-30 17:19:38

Local clock offset: -2.822 ms

Remote clock offset: 7.772 ms

Below is generated by plot.py at 2018-05-30 19:18:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.52 Mbit/s

95th percentile per-packet one-way delay: 116.011 ms

Loss rate: 11.58%

-- Flow 1:

Average throughput: 59.60 Mbit/s

95th percentile per-packet one-way delay: 116.042 ms

Loss rate: 4.02%

-- Flow 2:

Average throughput: 35.06 Mbit/s

95th percentile per-packet one-way delay: 115.064 ms

Loss rate: 9.04%

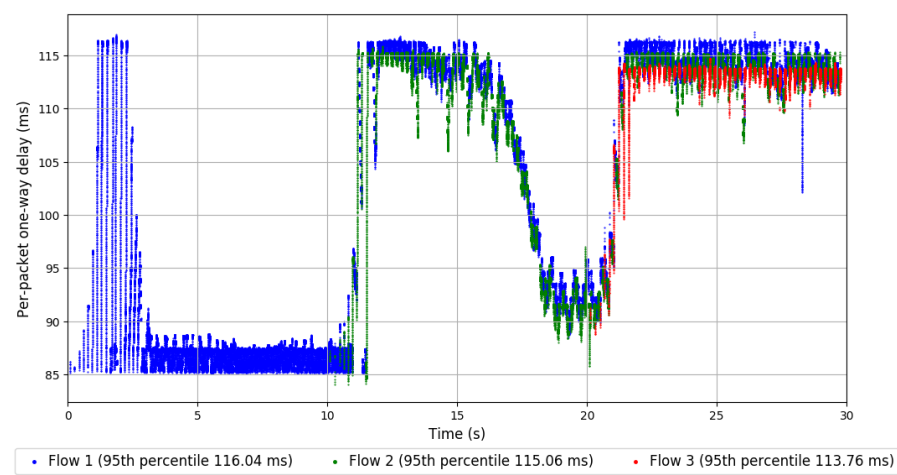
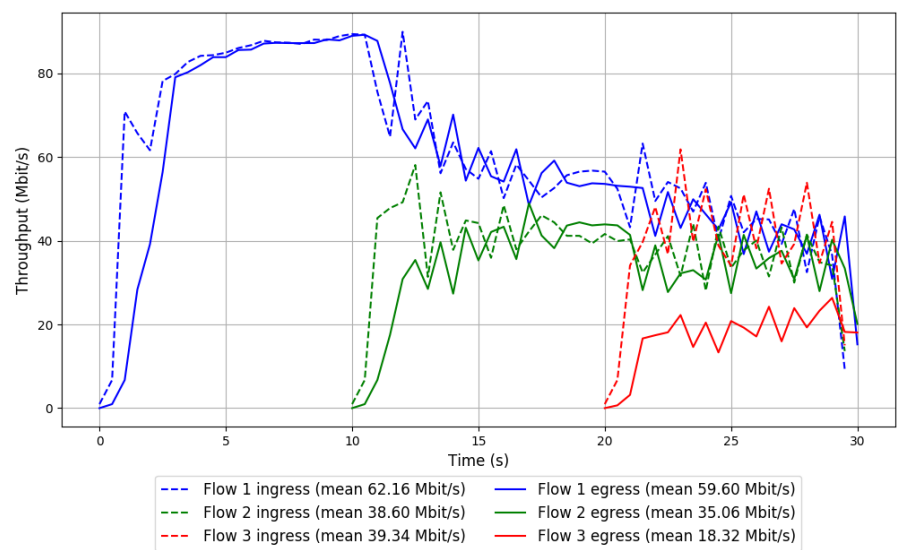
-- Flow 3:

Average throughput: 18.32 Mbit/s

95th percentile per-packet one-way delay: 113.758 ms

Loss rate: 53.33%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-05-30 17:39:09

End at: 2018-05-30 17:39:39

Local clock offset: -2.369 ms

Remote clock offset: 4.508 ms

Below is generated by plot.py at 2018-05-30 19:19:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.87 Mbit/s

95th percentile per-packet one-way delay: 114.954 ms

Loss rate: 11.10%

-- Flow 1:

Average throughput: 59.56 Mbit/s

95th percentile per-packet one-way delay: 115.174 ms

Loss rate: 4.60%

-- Flow 2:

Average throughput: 32.60 Mbit/s

95th percentile per-packet one-way delay: 111.098 ms

Loss rate: 11.64%

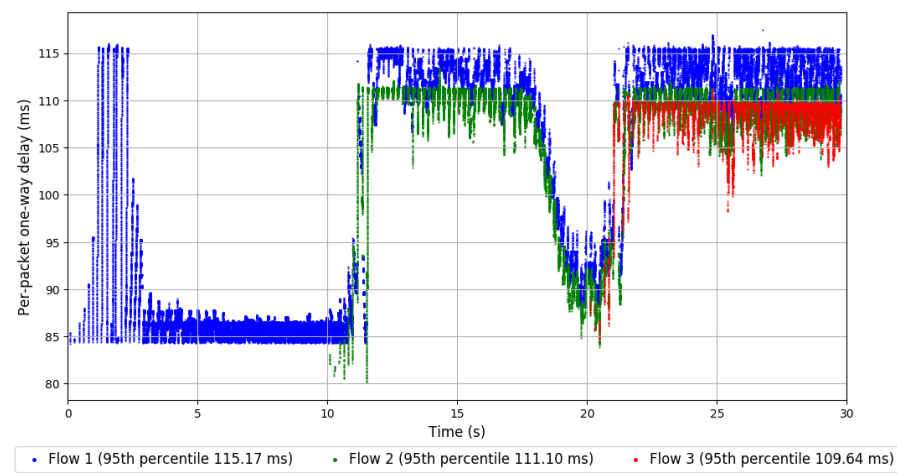
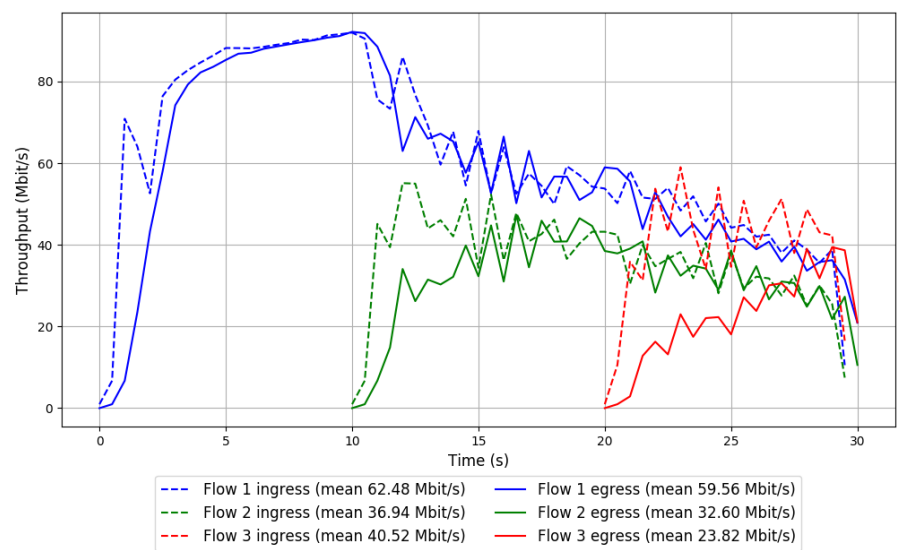
-- Flow 3:

Average throughput: 23.82 Mbit/s

95th percentile per-packet one-way delay: 109.641 ms

Loss rate: 41.08%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-05-30 17:59:10

End at: 2018-05-30 17:59:40

Local clock offset: -2.951 ms

Remote clock offset: 8.238 ms

Below is generated by plot.py at 2018-05-30 19:19:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.68 Mbit/s

95th percentile per-packet one-way delay: 112.054 ms

Loss rate: 11.96%

-- Flow 1:

Average throughput: 62.88 Mbit/s

95th percentile per-packet one-way delay: 111.729 ms

Loss rate: 3.62%

-- Flow 2:

Average throughput: 26.31 Mbit/s

95th percentile per-packet one-way delay: 111.903 ms

Loss rate: 27.53%

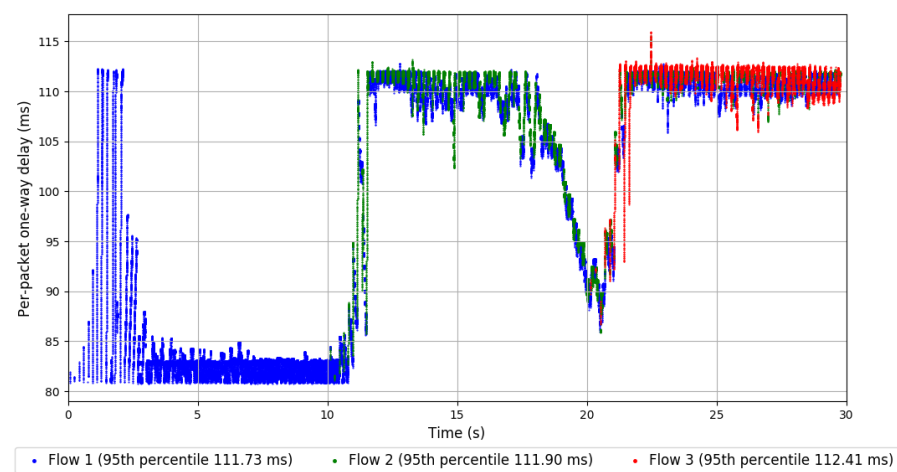
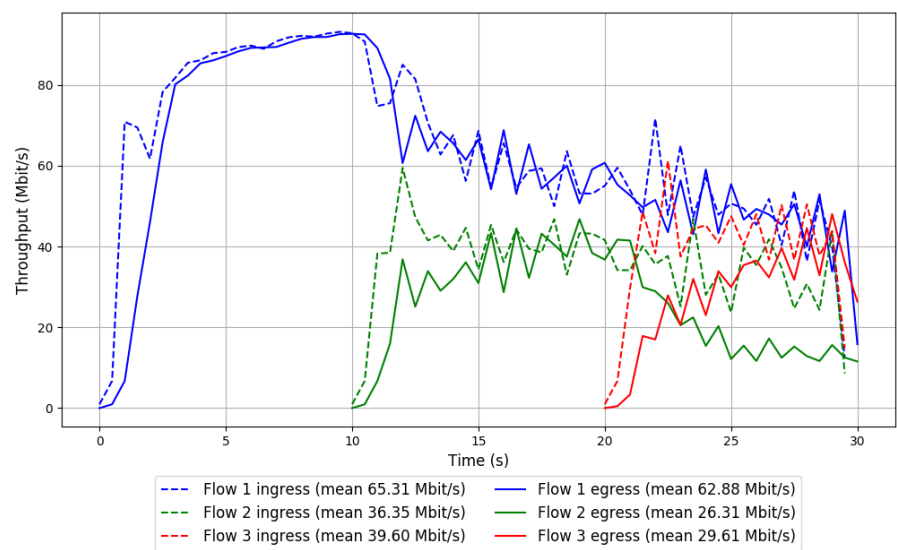
-- Flow 3:

Average throughput: 29.61 Mbit/s

95th percentile per-packet one-way delay: 112.406 ms

Loss rate: 25.04%

Run 7: Report of Indigo — Data Link

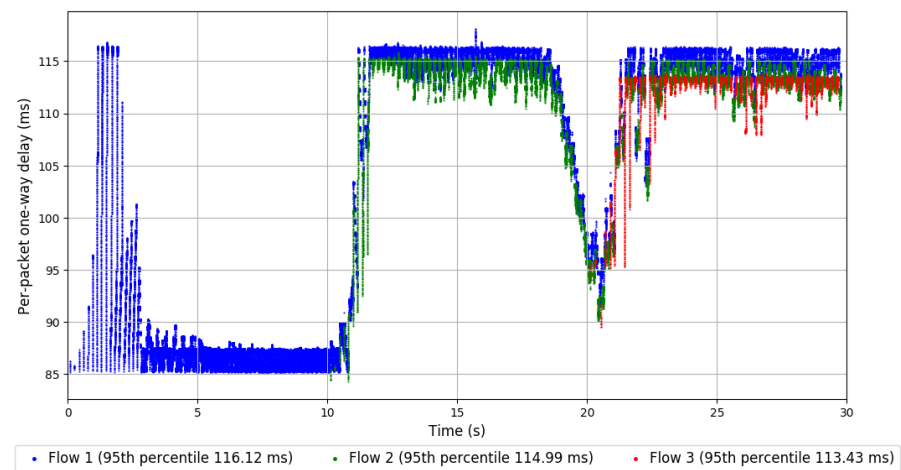
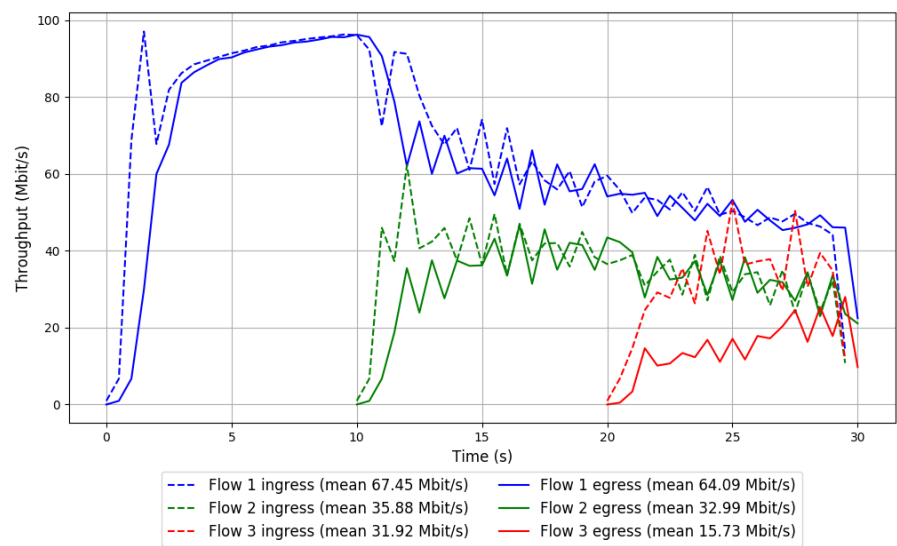


Run 8: Statistics of Indigo

Start at: 2018-05-30 18:19:13
End at: 2018-05-30 18:19:43
Local clock offset: -2.685 ms
Remote clock offset: 14.161 ms

```
# Below is generated by plot.py at 2018-05-30 19:19:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.95 Mbit/s
95th percentile per-packet one-way delay: 116.100 ms
Loss rate: 10.21%
-- Flow 1:
Average throughput: 64.09 Mbit/s
95th percentile per-packet one-way delay: 116.119 ms
Loss rate: 4.90%
-- Flow 2:
Average throughput: 32.99 Mbit/s
95th percentile per-packet one-way delay: 114.988 ms
Loss rate: 7.92%
-- Flow 3:
Average throughput: 15.73 Mbit/s
95th percentile per-packet one-way delay: 113.429 ms
Loss rate: 50.63%
```

Run 8: Report of Indigo — Data Link

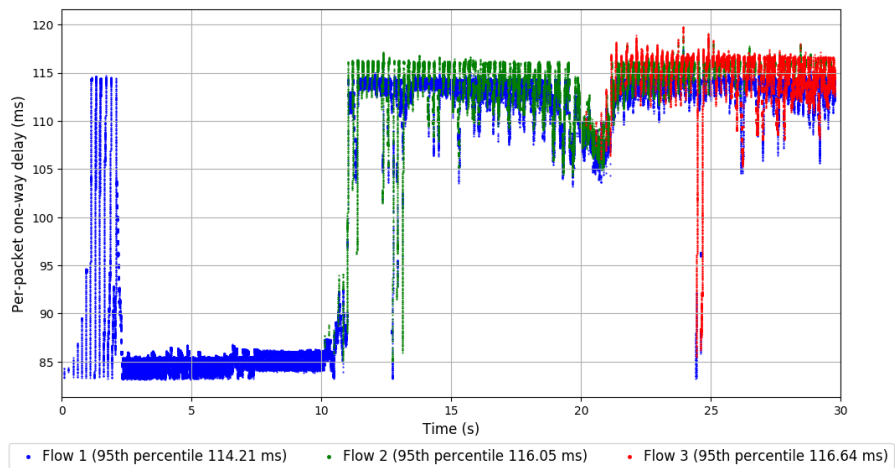
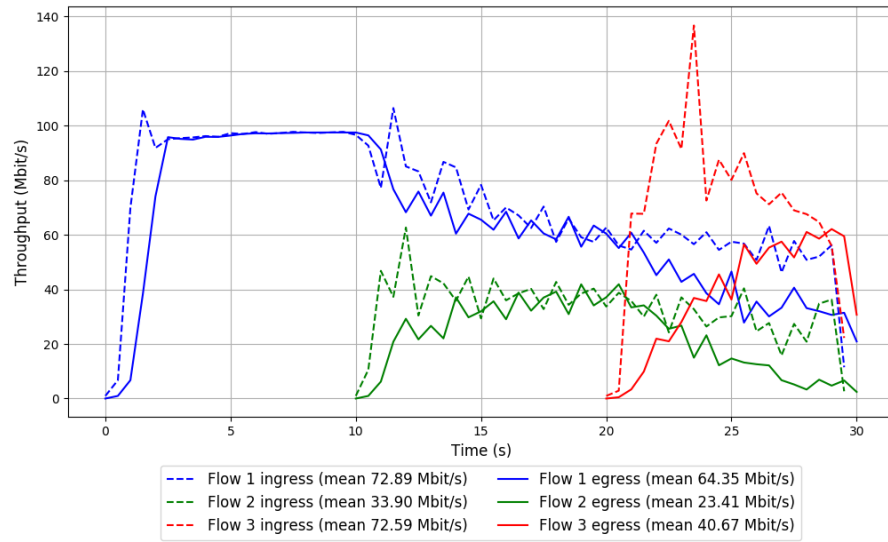


Run 9: Statistics of Indigo

Start at: 2018-05-30 18:39:21
End at: 2018-05-30 18:39:51
Local clock offset: -3.977 ms
Remote clock offset: 15.323 ms

Below is generated by plot.py at 2018-05-30 19:19:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.88 Mbit/s
95th percentile per-packet one-way delay: 116.334 ms
Loss rate: 21.64%
-- Flow 1:
Average throughput: 64.35 Mbit/s
95th percentile per-packet one-way delay: 114.214 ms
Loss rate: 11.64%
-- Flow 2:
Average throughput: 23.41 Mbit/s
95th percentile per-packet one-way delay: 116.046 ms
Loss rate: 30.82%
-- Flow 3:
Average throughput: 40.67 Mbit/s
95th percentile per-packet one-way delay: 116.641 ms
Loss rate: 43.95%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-05-30 18:59:25

End at: 2018-05-30 18:59:55

Local clock offset: -4.597 ms

Remote clock offset: 7.778 ms

Below is generated by plot.py at 2018-05-30 19:19:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.41 Mbit/s

95th percentile per-packet one-way delay: 114.123 ms

Loss rate: 15.60%

-- Flow 1:

Average throughput: 58.86 Mbit/s

95th percentile per-packet one-way delay: 109.948 ms

Loss rate: 8.50%

-- Flow 2:

Average throughput: 33.57 Mbit/s

95th percentile per-packet one-way delay: 115.801 ms

Loss rate: 13.10%

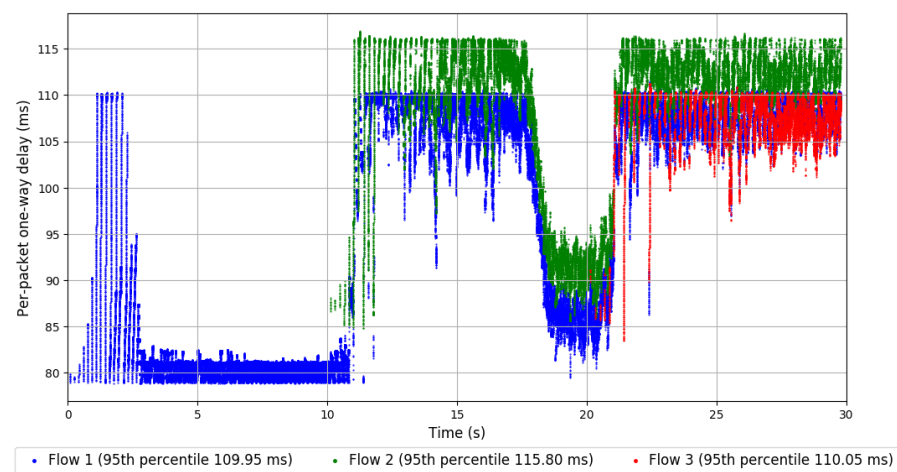
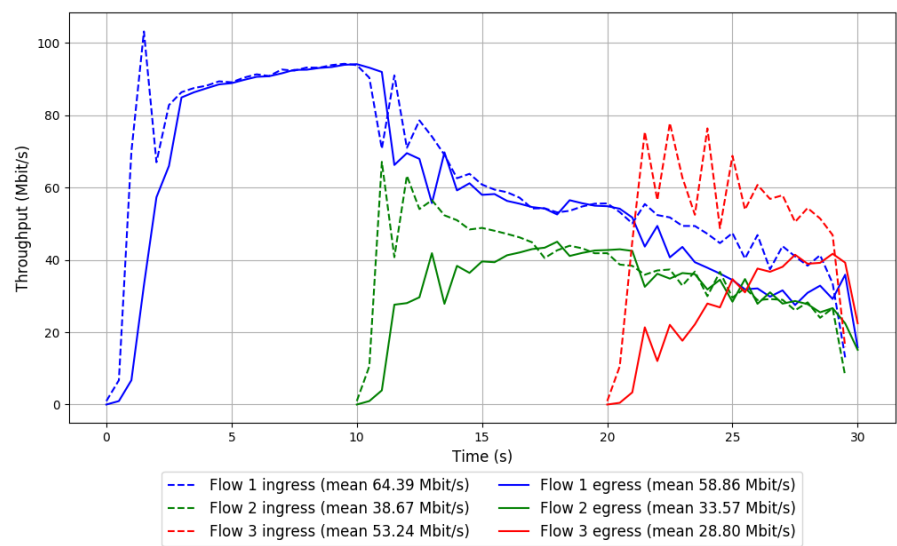
-- Flow 3:

Average throughput: 28.80 Mbit/s

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

Loss rate: 45.81%

Run 10: Report of Indigo — Data Link

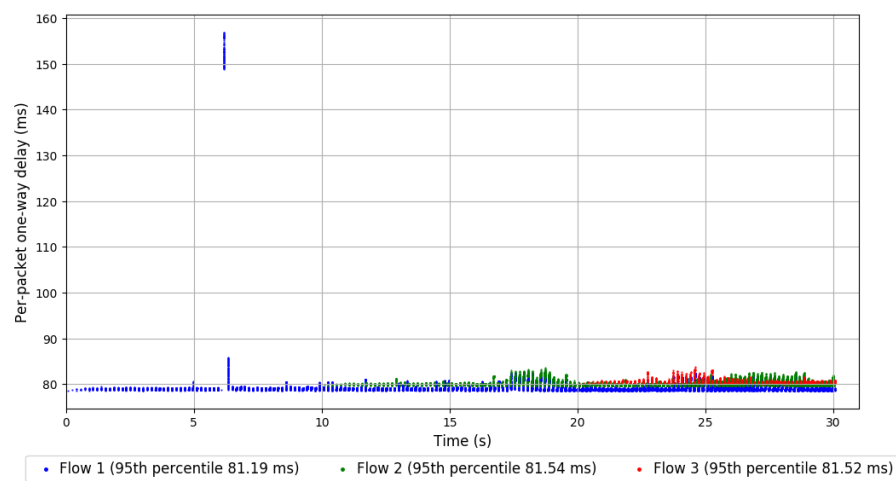
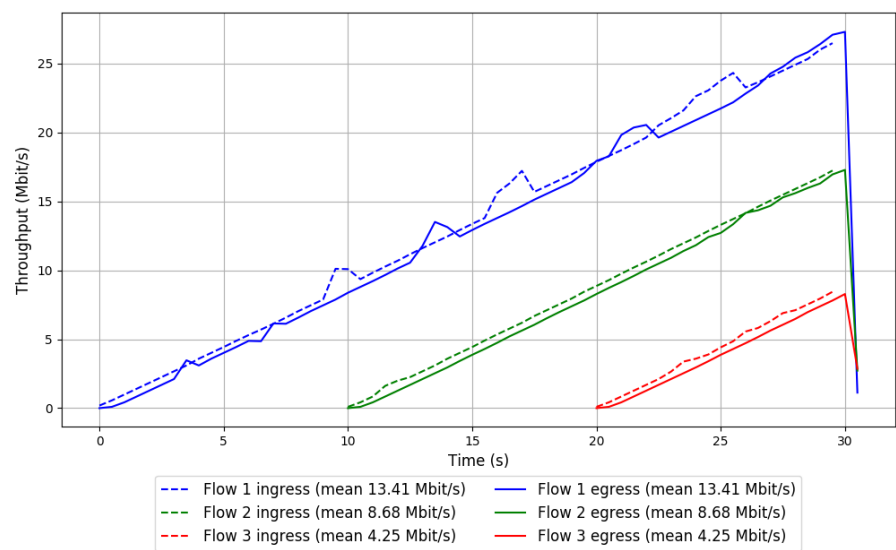


```
Run 1: Statistics of LEDBAT

Start at: 2018-05-30 15:50:58
End at: 2018-05-30 15:51:28
Local clock offset: -1.718 ms
Remote clock offset: 4.112 ms

# Below is generated by plot.py at 2018-05-30 19:19:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.59 Mbit/s
95th percentile per-packet one-way delay: 81.319 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.41 Mbit/s
95th percentile per-packet one-way delay: 81.185 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.68 Mbit/s
95th percentile per-packet one-way delay: 81.541 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.25 Mbit/s
95th percentile per-packet one-way delay: 81.524 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-05-30 16:11:05

End at: 2018-05-30 16:11:35

Local clock offset: -1.241 ms

Remote clock offset: 4.094 ms

Below is generated by plot.py at 2018-05-30 19:19:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.11 Mbit/s

95th percentile per-packet one-way delay: 86.687 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 11.97 Mbit/s

95th percentile per-packet one-way delay: 87.360 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.59 Mbit/s

95th percentile per-packet one-way delay: 82.674 ms

Loss rate: 0.00%

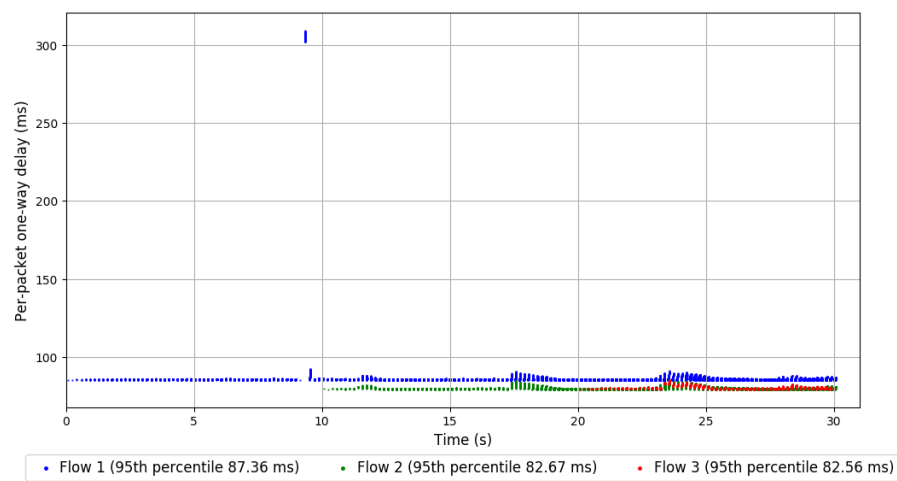
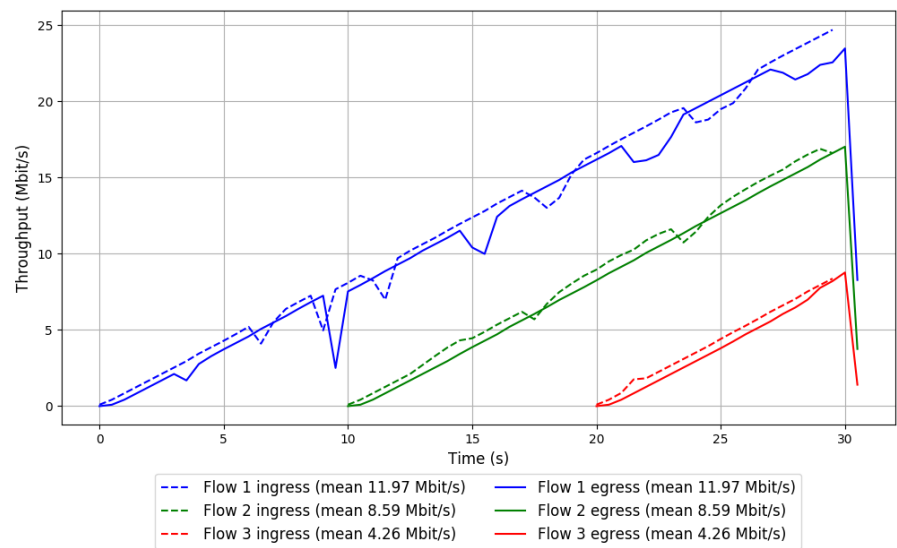
-- Flow 3:

Average throughput: 4.26 Mbit/s

95th percentile per-packet one-way delay: 82.564 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

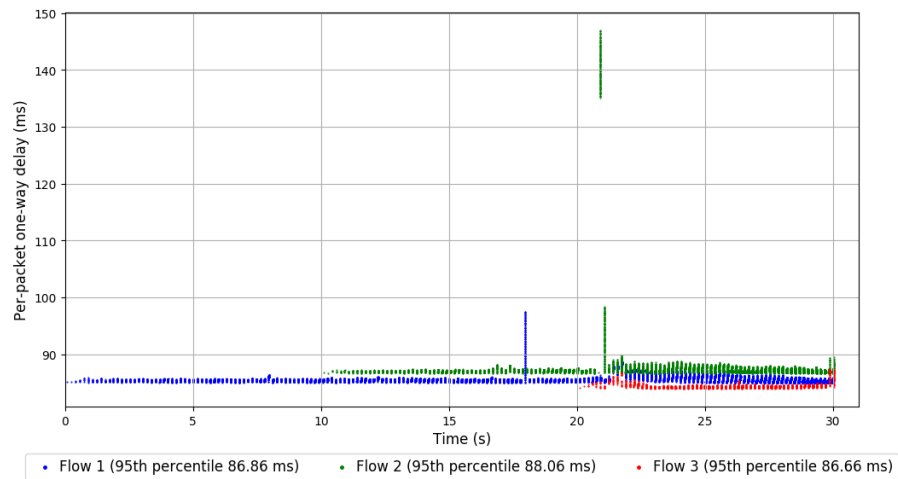
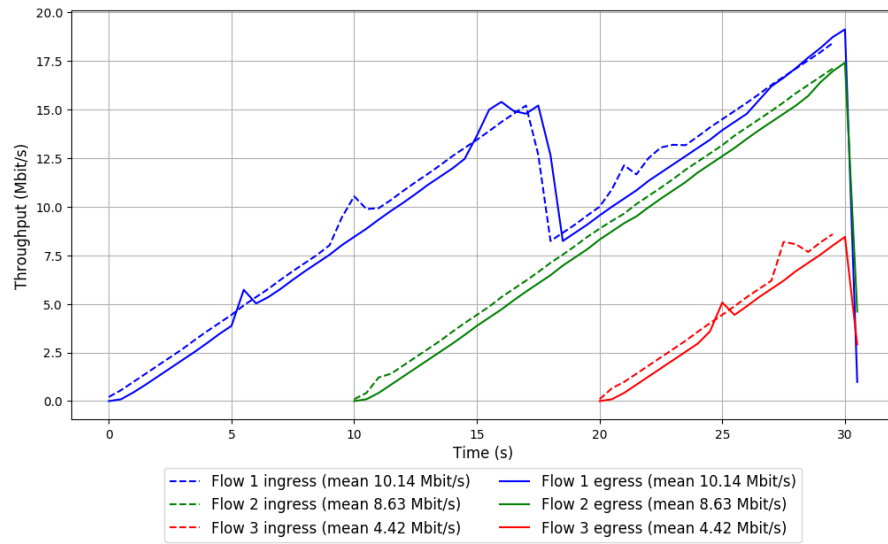


Run 3: Statistics of LEDBAT

Start at: 2018-05-30 16:31:09
End at: 2018-05-30 16:31:39
Local clock offset: -2.388 ms
Remote clock offset: 9.546 ms

Below is generated by plot.py at 2018-05-30 19:19:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 17.34 Mbit/s
95th percentile per-packet one-way delay: 87.661 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.14 Mbit/s
95th percentile per-packet one-way delay: 86.862 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.63 Mbit/s
95th percentile per-packet one-way delay: 88.062 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.42 Mbit/s
95th percentile per-packet one-way delay: 86.655 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-05-30 16:51:31

End at: 2018-05-30 16:52:01

Local clock offset: -2.695 ms

Remote clock offset: 9.409 ms

Below is generated by plot.py at 2018-05-30 19:19:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.95 Mbit/s

95th percentile per-packet one-way delay: 91.490 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 9.95 Mbit/s

95th percentile per-packet one-way delay: 89.146 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.38 Mbit/s

95th percentile per-packet one-way delay: 92.242 ms

Loss rate: 0.00%

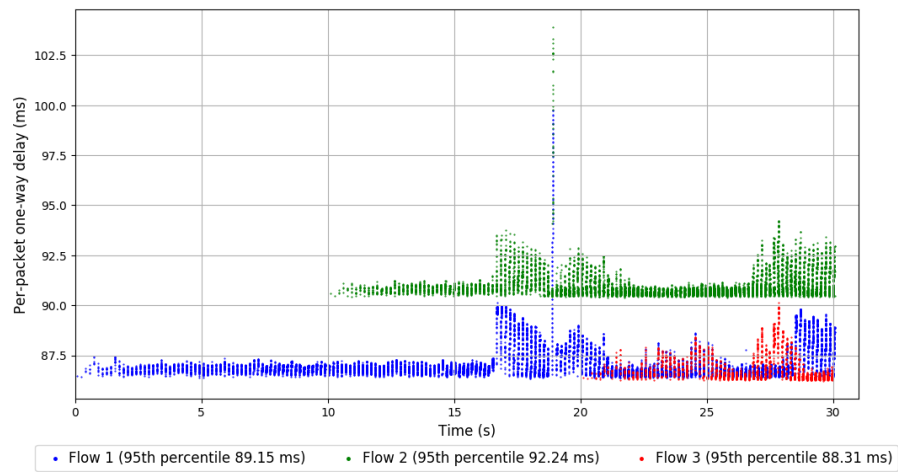
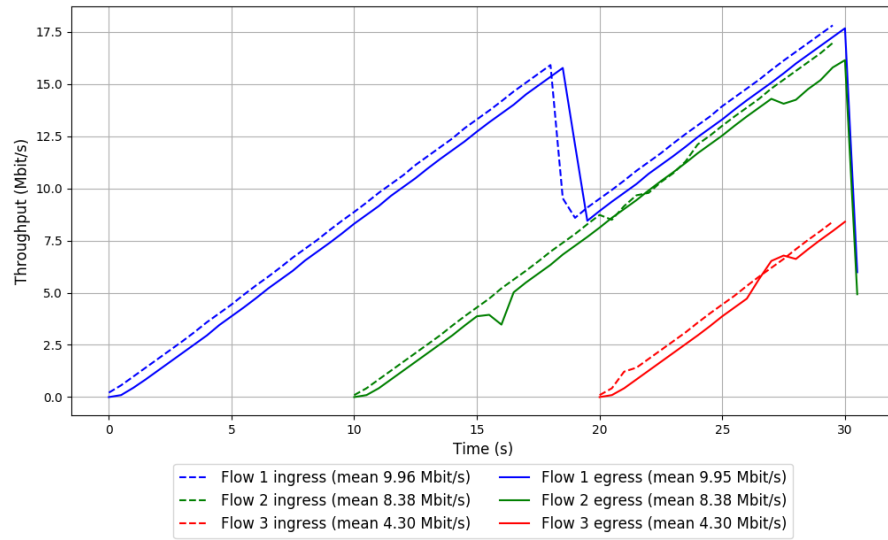
-- Flow 3:

Average throughput: 4.30 Mbit/s

95th percentile per-packet one-way delay: 88.311 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-05-30 17:11:44

End at: 2018-05-30 17:12:14

Local clock offset: -2.454 ms

Remote clock offset: 8.562 ms

Below is generated by plot.py at 2018-05-30 19:19:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.32 Mbit/s

95th percentile per-packet one-way delay: 86.428 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 13.07 Mbit/s

95th percentile per-packet one-way delay: 85.748 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.81 Mbit/s

95th percentile per-packet one-way delay: 87.165 ms

Loss rate: 0.00%

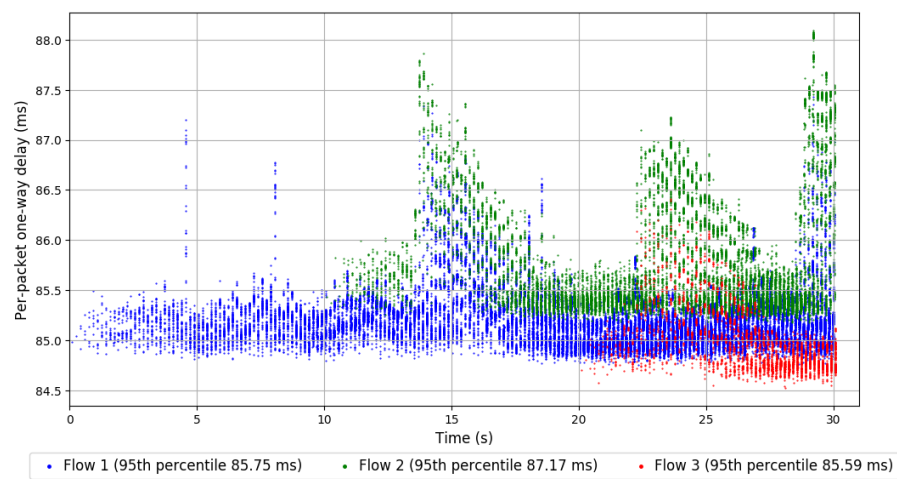
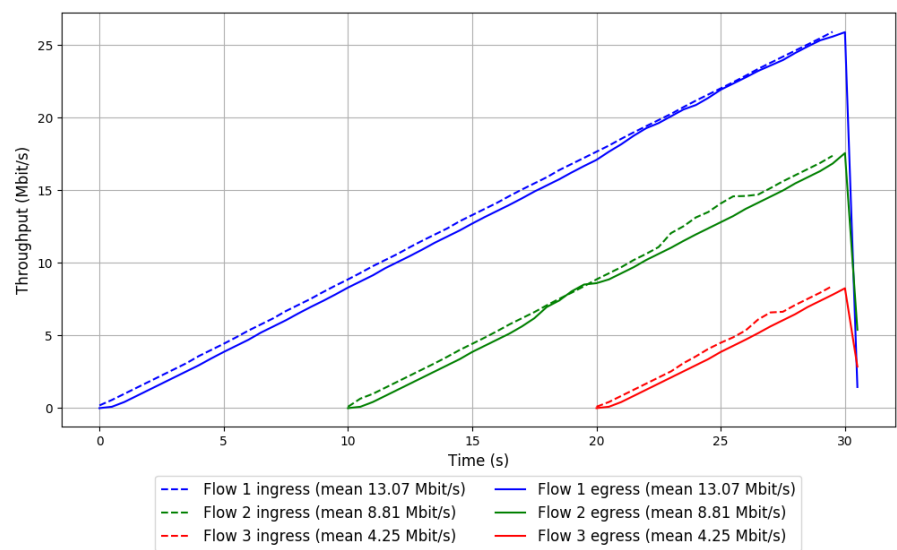
-- Flow 3:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 85.587 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-05-30 17:31:44

End at: 2018-05-30 17:32:14

Local clock offset: -2.426 ms

Remote clock offset: 8.6 ms

Below is generated by plot.py at 2018-05-30 19:19:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.04 Mbit/s

95th percentile per-packet one-way delay: 84.016 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 13.65 Mbit/s

95th percentile per-packet one-way delay: 83.818 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.99 Mbit/s

95th percentile per-packet one-way delay: 84.654 ms

Loss rate: 0.00%

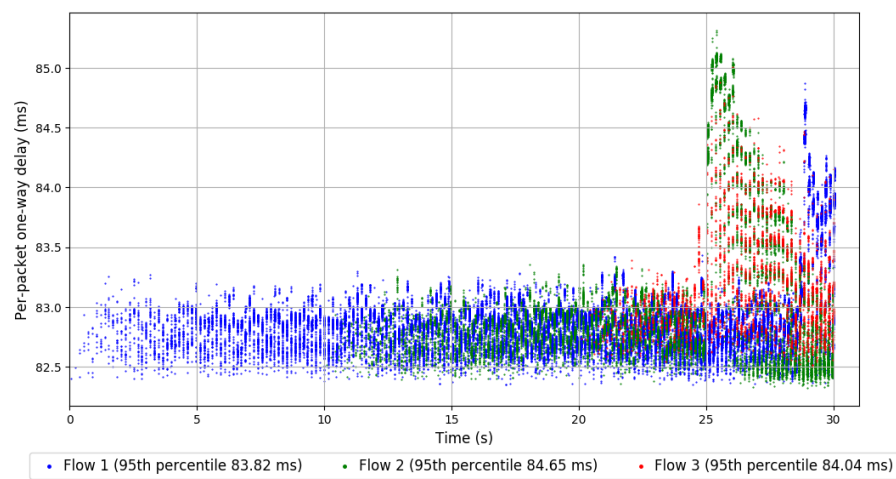
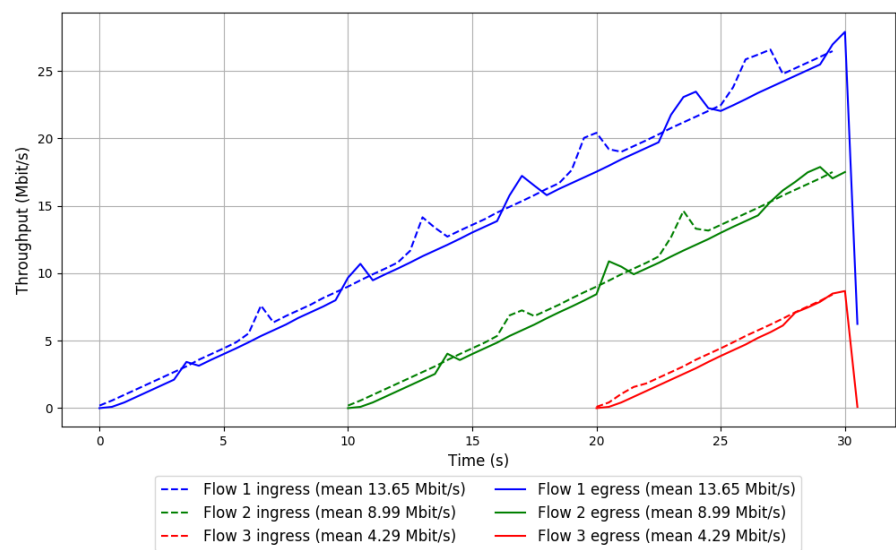
-- Flow 3:

Average throughput: 4.29 Mbit/s

95th percentile per-packet one-way delay: 84.036 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link

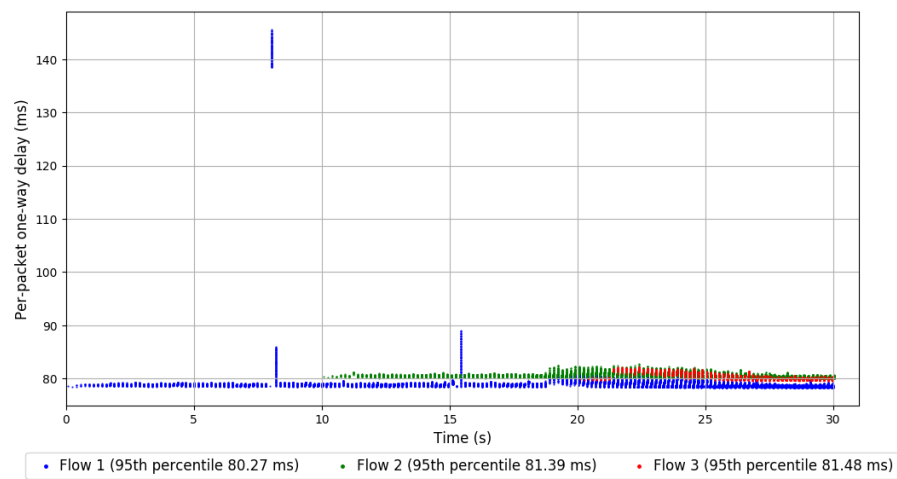
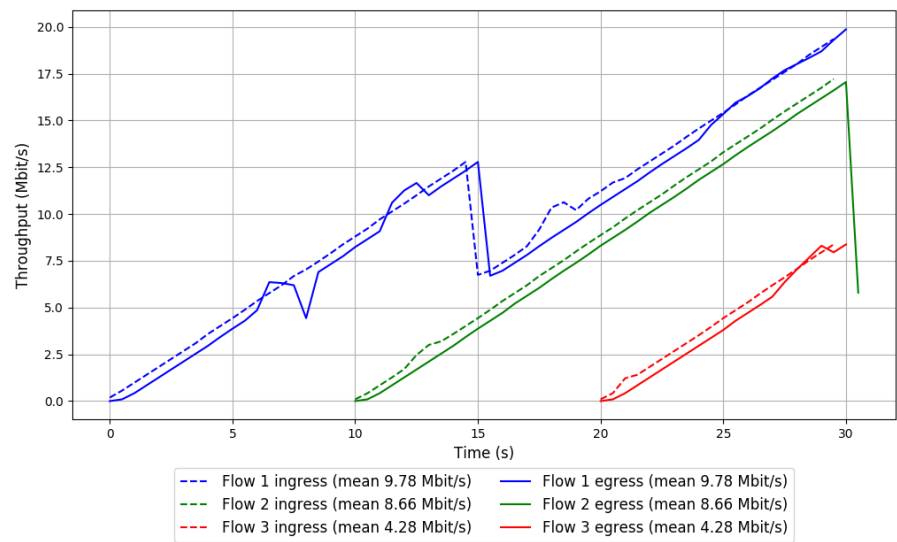


Run 7: Statistics of LEDBAT

Start at: 2018-05-30 17:51:46
End at: 2018-05-30 17:52:16
Local clock offset: -2.185 ms
Remote clock offset: 6.406 ms

```
# Below is generated by plot.py at 2018-05-30 19:19:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.94 Mbit/s
95th percentile per-packet one-way delay: 81.123 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.78 Mbit/s
95th percentile per-packet one-way delay: 80.273 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 8.66 Mbit/s
95th percentile per-packet one-way delay: 81.395 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.28 Mbit/s
95th percentile per-packet one-way delay: 81.485 ms
Loss rate: 0.00%
```


Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-05-30 18:11:48

End at: 2018-05-30 18:12:19

Local clock offset: -2.446 ms

Remote clock offset: 8.849 ms

Below is generated by plot.py at 2018-05-30 19:19:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.45 Mbit/s

95th percentile per-packet one-way delay: 80.595 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 13.26 Mbit/s

95th percentile per-packet one-way delay: 80.727 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.68 Mbit/s

95th percentile per-packet one-way delay: 79.505 ms

Loss rate: 0.00%

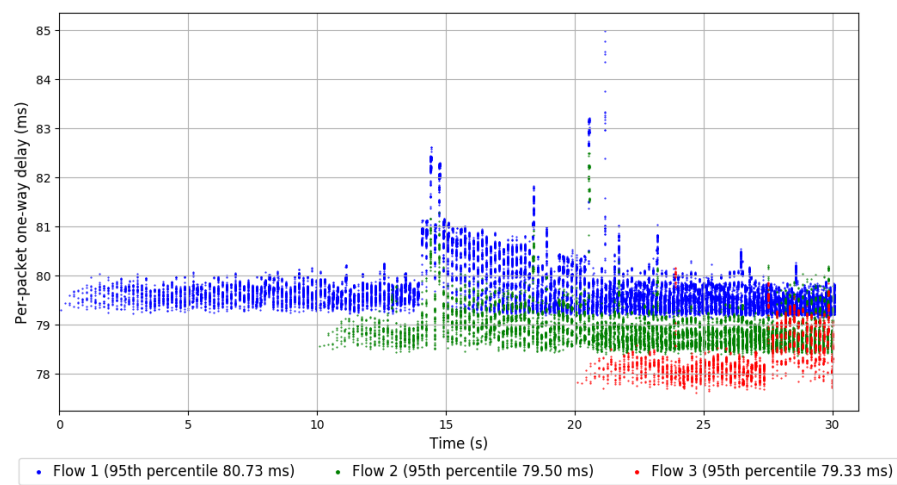
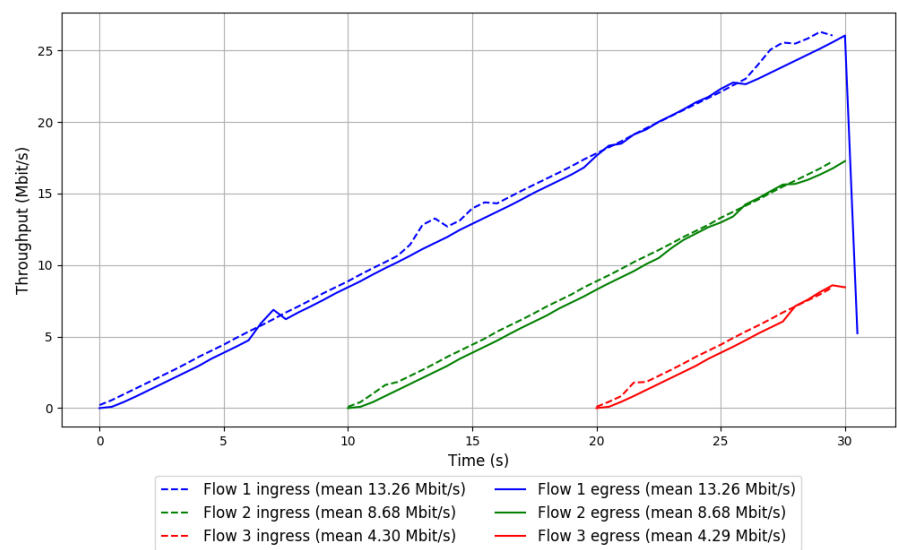
-- Flow 3:

Average throughput: 4.29 Mbit/s

95th percentile per-packet one-way delay: 79.335 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link

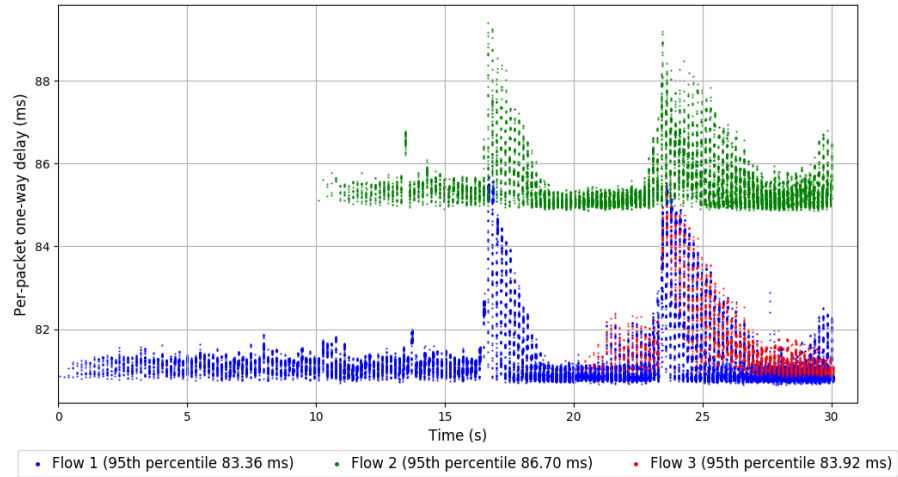
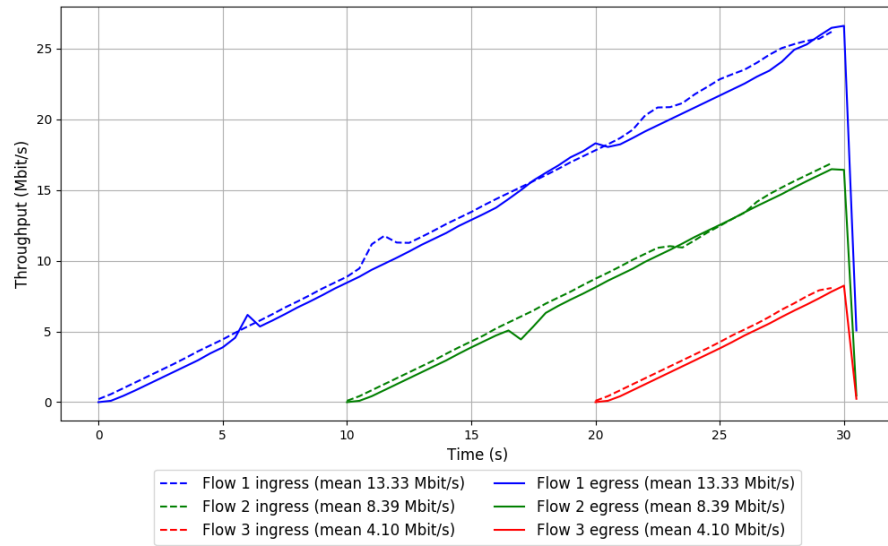


Run 9: Statistics of LEDBAT

Start at: 2018-05-30 18:31:55
End at: 2018-05-30 18:32:25
Local clock offset: -3.639 ms
Remote clock offset: 10.954 ms

Below is generated by plot.py at 2018-05-30 19:19:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 20.26 Mbit/s
95th percentile per-packet one-way delay: 85.795 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.33 Mbit/s
95th percentile per-packet one-way delay: 83.363 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.39 Mbit/s
95th percentile per-packet one-way delay: 86.700 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.10 Mbit/s
95th percentile per-packet one-way delay: 83.917 ms
Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-05-30 18:52:01

End at: 2018-05-30 18:52:31

Local clock offset: -5.241 ms

Remote clock offset: 11.24 ms

Below is generated by plot.py at 2018-05-30 19:19:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.57 Mbit/s

95th percentile per-packet one-way delay: 81.368 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 13.39 Mbit/s

95th percentile per-packet one-way delay: 81.452 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.11 Mbit/s

95th percentile per-packet one-way delay: 80.255 ms

Loss rate: 0.01%

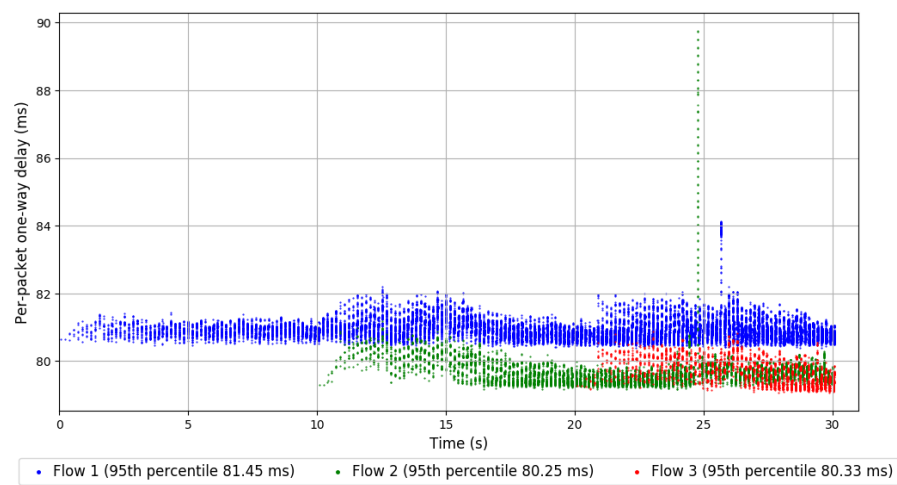
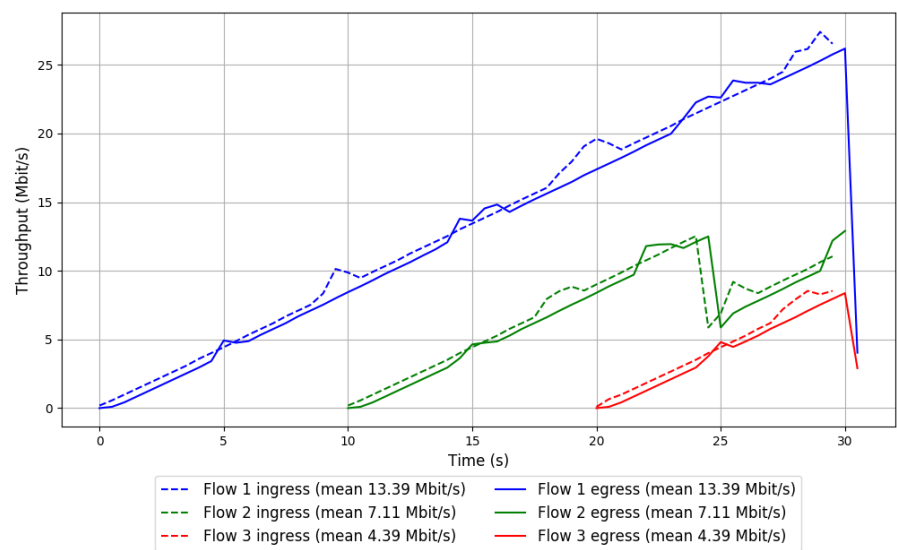
-- Flow 3:

Average throughput: 4.39 Mbit/s

95th percentile per-packet one-way delay: 80.325 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-05-30 15:47:18

End at: 2018-05-30 15:47:48

Local clock offset: -1.782 ms

Remote clock offset: 7.906 ms

Below is generated by plot.py at 2018-05-30 19:20:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.30 Mbit/s

95th percentile per-packet one-way delay: 115.341 ms

Loss rate: 2.92%

-- Flow 1:

Average throughput: 78.60 Mbit/s

95th percentile per-packet one-way delay: 115.350 ms

Loss rate: 2.79%

-- Flow 2:

Average throughput: 9.13 Mbit/s

95th percentile per-packet one-way delay: 113.332 ms

Loss rate: 3.99%

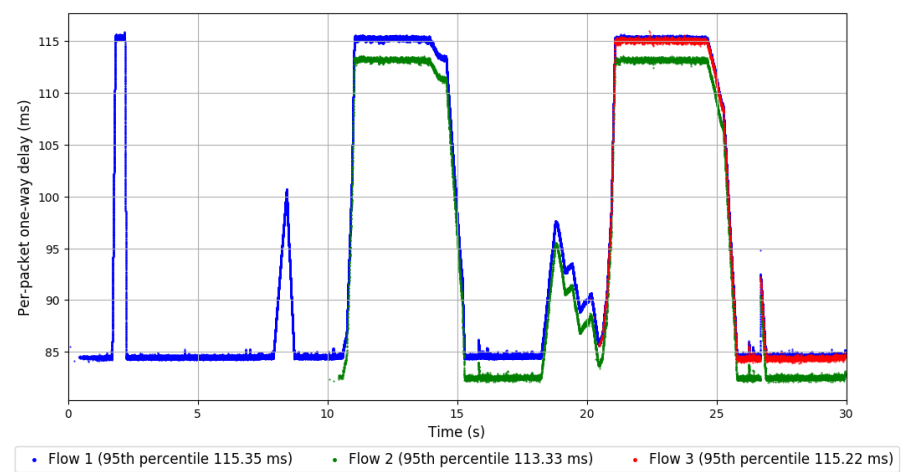
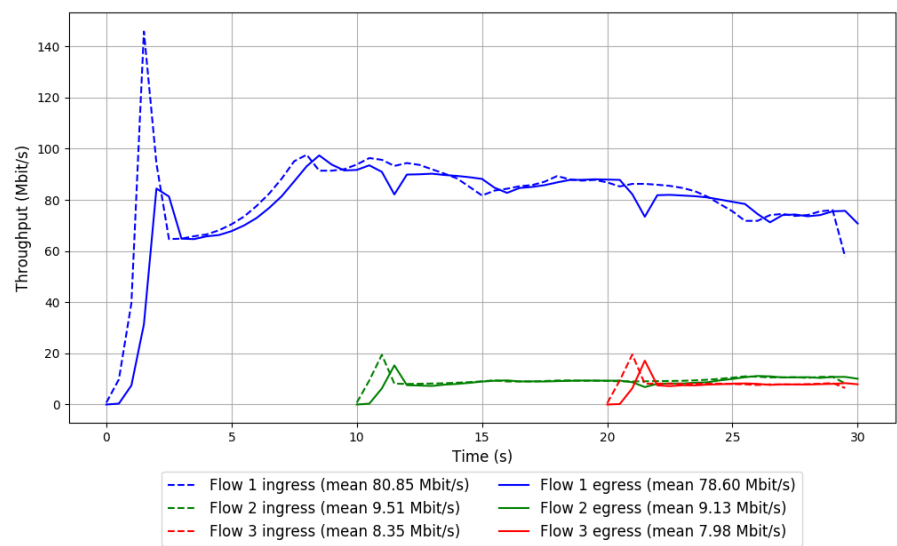
-- Flow 3:

Average throughput: 7.98 Mbit/s

95th percentile per-packet one-way delay: 115.219 ms

Loss rate: 4.50%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-30 16:07:25

End at: 2018-05-30 16:07:55

Local clock offset: -2.531 ms

Remote clock offset: 4.296 ms

Below is generated by plot.py at 2018-05-30 19:20:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.21 Mbit/s

95th percentile per-packet one-way delay: 112.038 ms

Loss rate: 2.76%

-- Flow 1:

Average throughput: 78.34 Mbit/s

95th percentile per-packet one-way delay: 112.046 ms

Loss rate: 2.56%

-- Flow 2:

Average throughput: 9.22 Mbit/s

95th percentile per-packet one-way delay: 111.886 ms

Loss rate: 4.17%

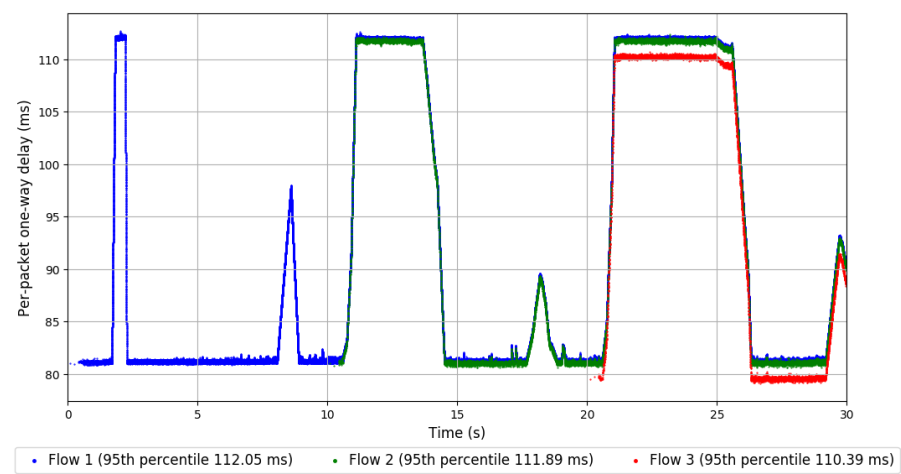
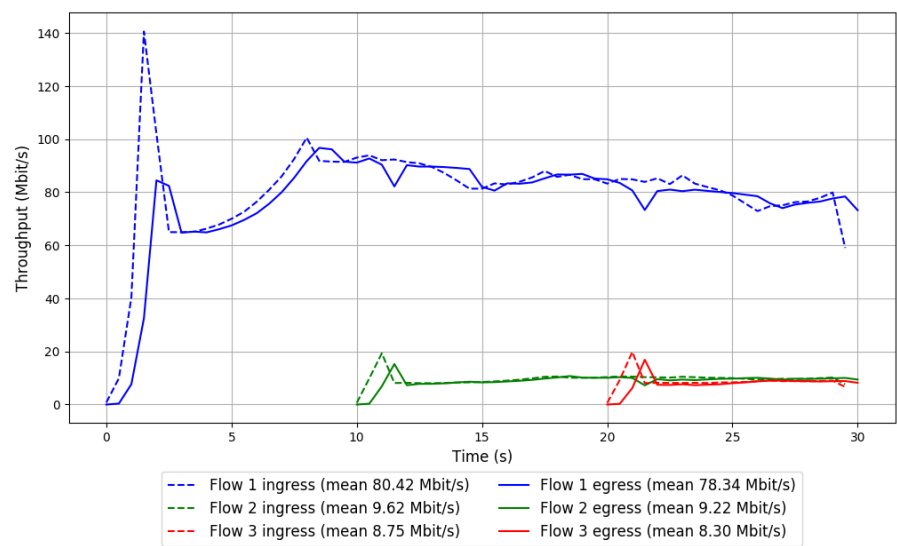
-- Flow 3:

Average throughput: 8.30 Mbit/s

95th percentile per-packet one-way delay: 110.394 ms

Loss rate: 5.08%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-05-30 16:27:29

End at: 2018-05-30 16:27:59

Local clock offset: -1.654 ms

Remote clock offset: 8.731 ms

Below is generated by plot.py at 2018-05-30 19:20:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.72 Mbit/s

95th percentile per-packet one-way delay: 119.531 ms

Loss rate: 3.18%

-- Flow 1:

Average throughput: 77.50 Mbit/s

95th percentile per-packet one-way delay: 119.540 ms

Loss rate: 2.94%

-- Flow 2:

Average throughput: 10.02 Mbit/s

95th percentile per-packet one-way delay: 115.260 ms

Loss rate: 4.45%

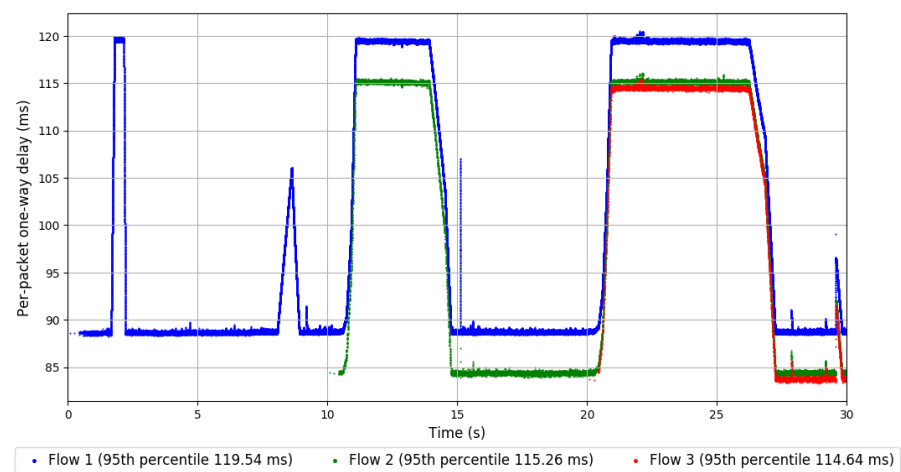
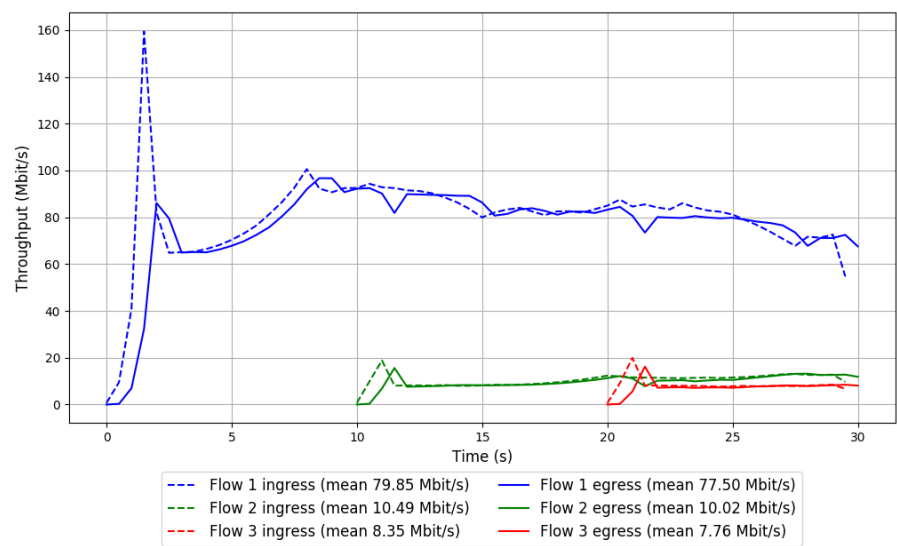
-- Flow 3:

Average throughput: 7.76 Mbit/s

95th percentile per-packet one-way delay: 114.643 ms

Loss rate: 7.03%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-05-30 16:47:50

End at: 2018-05-30 16:48:20

Local clock offset: -2.827 ms

Remote clock offset: 3.813 ms

Below is generated by plot.py at 2018-05-30 19:20:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.29 Mbit/s

95th percentile per-packet one-way delay: 110.507 ms

Loss rate: 3.00%

-- Flow 1:

Average throughput: 78.39 Mbit/s

95th percentile per-packet one-way delay: 110.491 ms

Loss rate: 2.86%

-- Flow 2:

Average throughput: 9.36 Mbit/s

95th percentile per-packet one-way delay: 110.662 ms

Loss rate: 3.79%

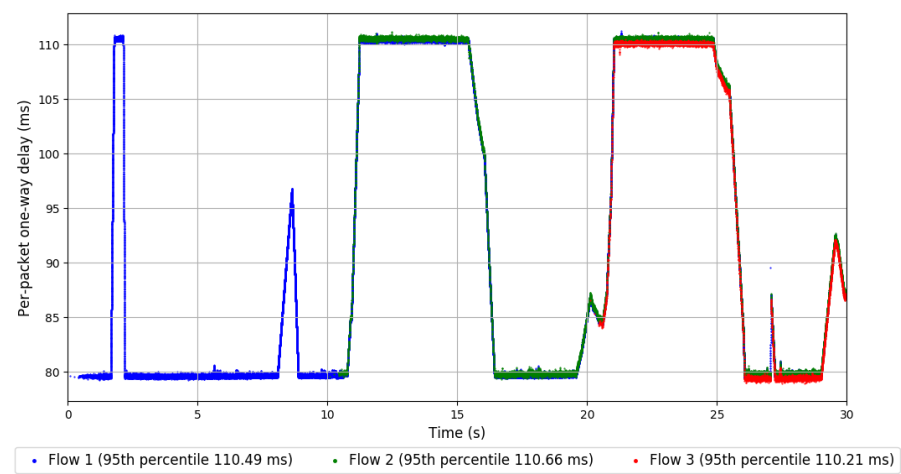
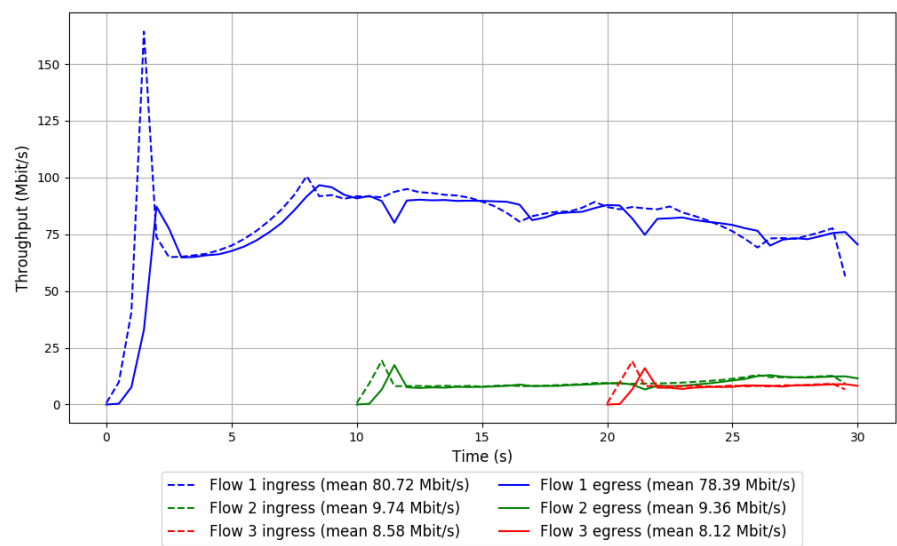
-- Flow 3:

Average throughput: 8.12 Mbit/s

95th percentile per-packet one-way delay: 110.209 ms

Loss rate: 5.31%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-05-30 17:08:03

End at: 2018-05-30 17:08:33

Local clock offset: -1.263 ms

Remote clock offset: 8.623 ms

Below is generated by plot.py at 2018-05-30 19:20:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.79 Mbit/s

95th percentile per-packet one-way delay: 113.376 ms

Loss rate: 2.99%

-- Flow 1:

Average throughput: 79.26 Mbit/s

95th percentile per-packet one-way delay: 113.322 ms

Loss rate: 2.86%

-- Flow 2:

Average throughput: 7.19 Mbit/s

95th percentile per-packet one-way delay: 119.282 ms

Loss rate: 4.52%

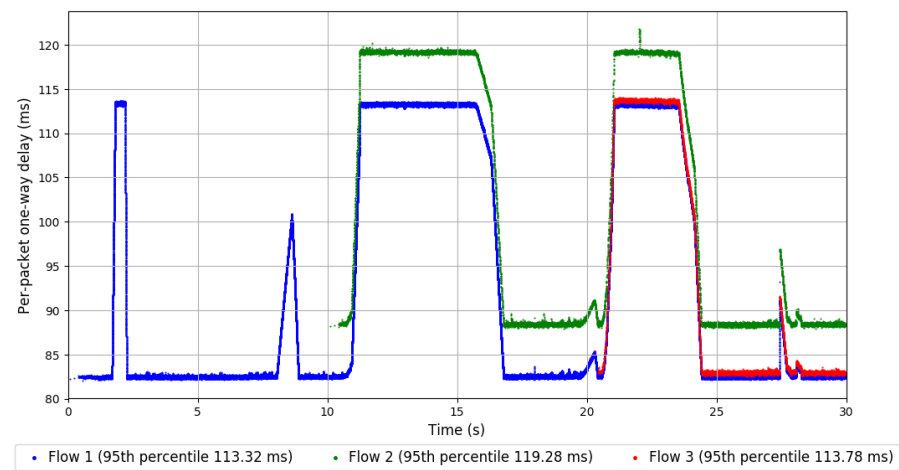
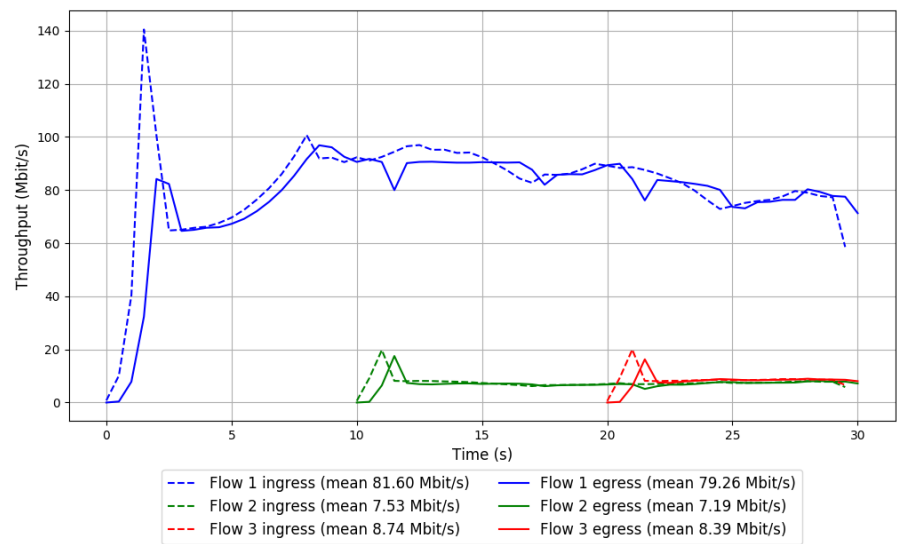
-- Flow 3:

Average throughput: 8.39 Mbit/s

95th percentile per-packet one-way delay: 113.782 ms

Loss rate: 4.02%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-05-30 17:28:04

End at: 2018-05-30 17:28:34

Local clock offset: -2.343 ms

Remote clock offset: 3.839 ms

Below is generated by plot.py at 2018-05-30 19:20:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.91 Mbit/s

95th percentile per-packet one-way delay: 116.320 ms

Loss rate: 2.40%

-- Flow 1:

Average throughput: 80.36 Mbit/s

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

Loss rate: 2.34%

-- Flow 2:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 116.222 ms

Loss rate: 3.06%

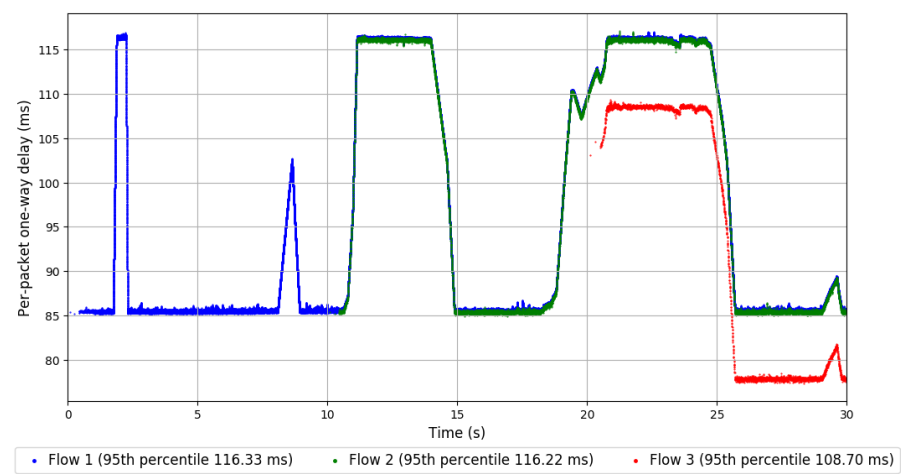
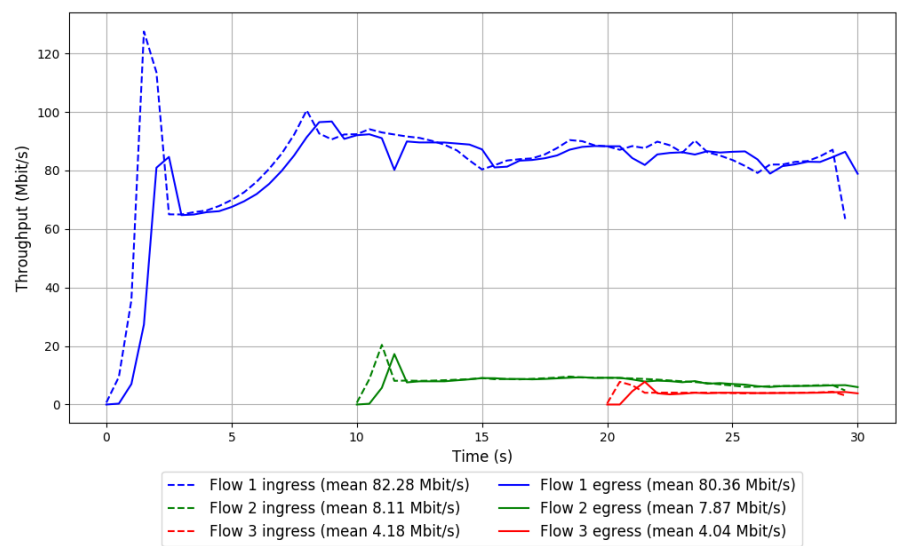
-- Flow 3:

Average throughput: 4.04 Mbit/s

95th percentile per-packet one-way delay: 108.701 ms

Loss rate: 3.64%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-05-30 17:48:06

End at: 2018-05-30 17:48:36

Local clock offset: -2.971 ms

Remote clock offset: 4.289 ms

Below is generated by plot.py at 2018-05-30 19:20:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.21 Mbit/s

95th percentile per-packet one-way delay: 110.826 ms

Loss rate: 2.86%

-- Flow 1:

Average throughput: 78.59 Mbit/s

95th percentile per-packet one-way delay: 110.786 ms

Loss rate: 2.68%

-- Flow 2:

Average throughput: 9.01 Mbit/s

95th percentile per-packet one-way delay: 110.932 ms

Loss rate: 4.46%

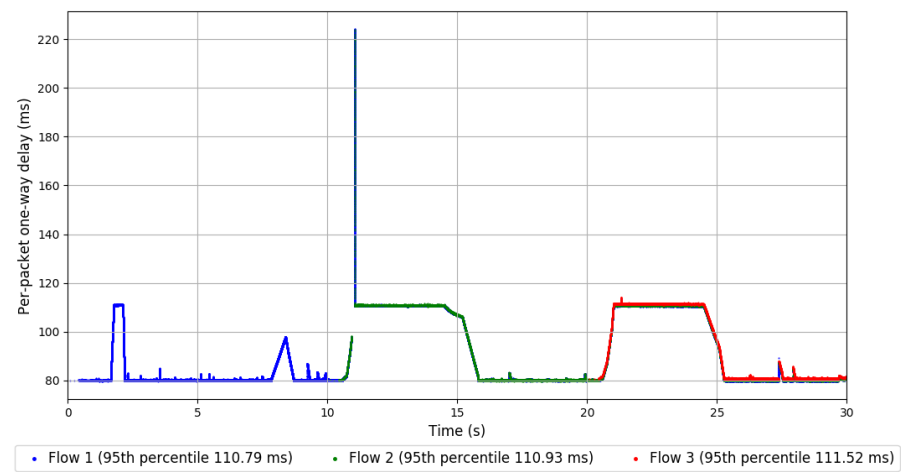
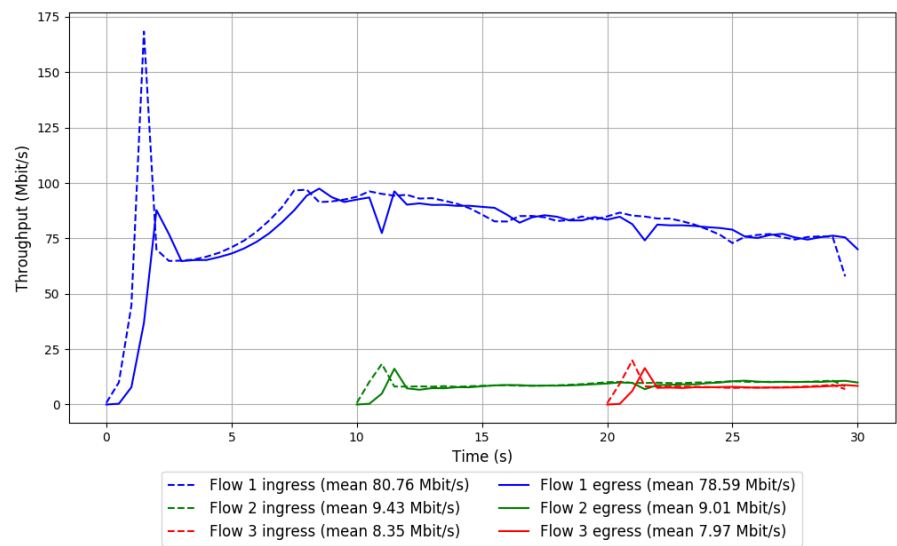
-- Flow 3:

Average throughput: 7.97 Mbit/s

95th percentile per-packet one-way delay: 111.520 ms

Loss rate: 4.56%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-05-30 18:08:08

End at: 2018-05-30 18:08:38

Local clock offset: -3.061 ms

Remote clock offset: 9.403 ms

Below is generated by plot.py at 2018-05-30 19:21:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.95 Mbit/s

95th percentile per-packet one-way delay: 110.456 ms

Loss rate: 2.53%

-- Flow 1:

Average throughput: 77.93 Mbit/s

95th percentile per-packet one-way delay: 110.421 ms

Loss rate: 2.41%

-- Flow 2:

Average throughput: 9.37 Mbit/s

95th percentile per-packet one-way delay: 111.839 ms

Loss rate: 3.17%

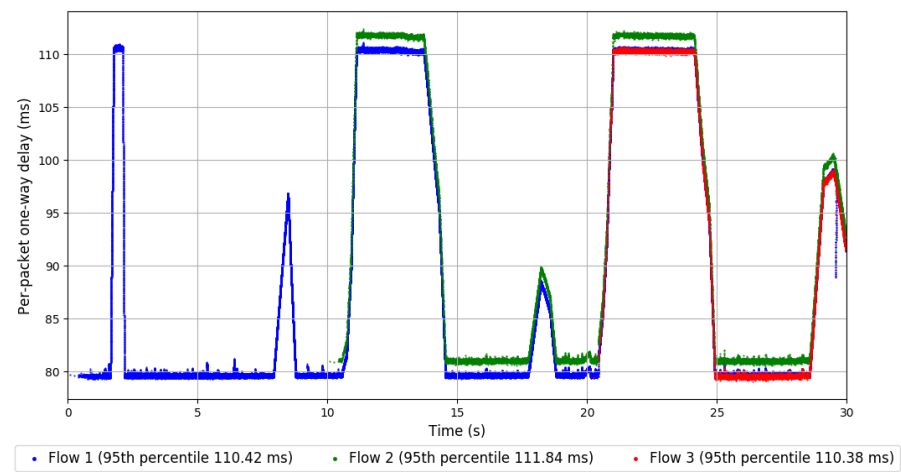
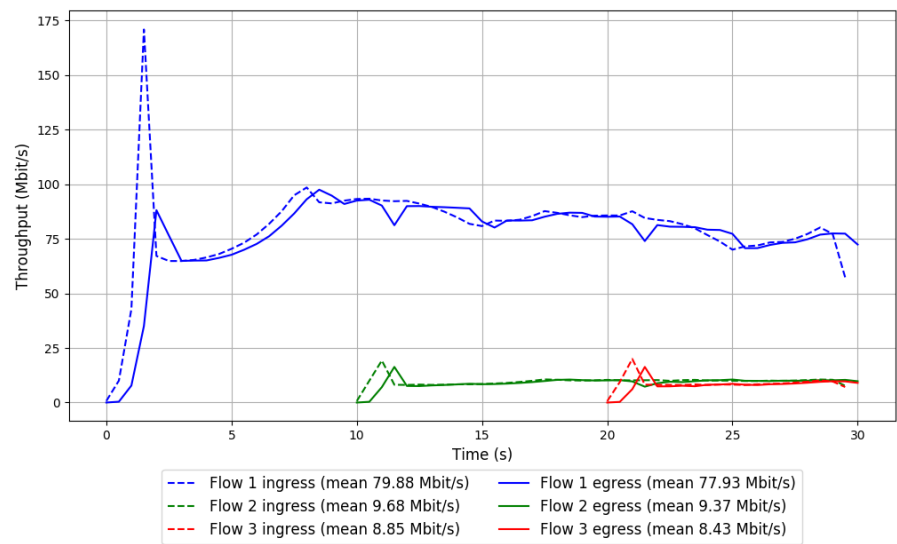
-- Flow 3:

Average throughput: 8.43 Mbit/s

95th percentile per-packet one-way delay: 110.377 ms

Loss rate: 4.60%

Run 8: Report of PCC-Allegro — Data Link

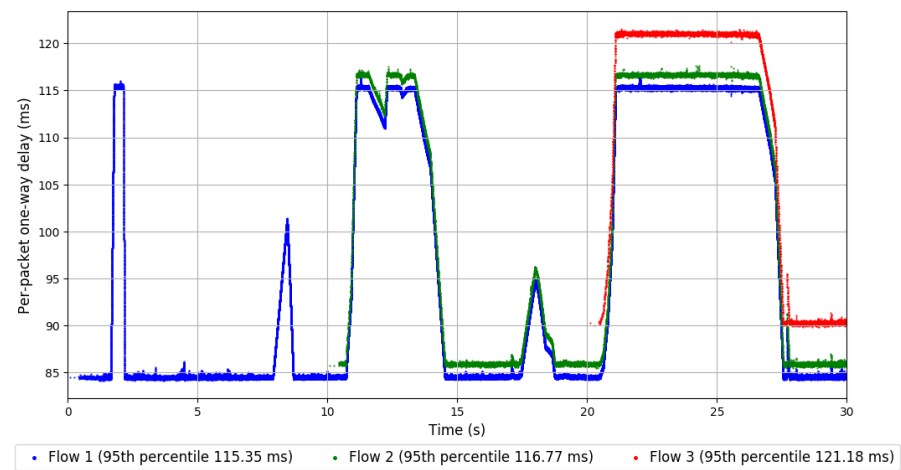
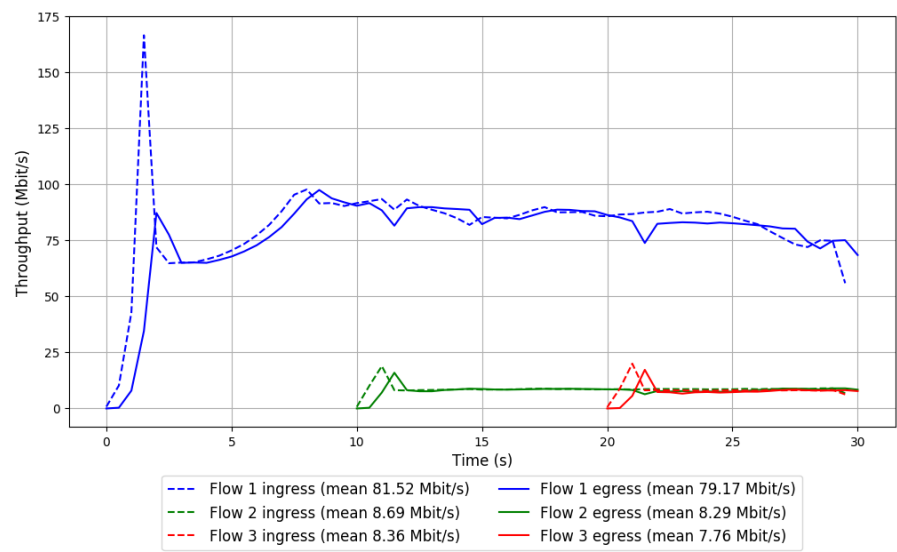


Run 9: Statistics of PCC-Allegro

Start at: 2018-05-30 18:28:14
End at: 2018-05-30 18:28:44
Local clock offset: -4.37 ms
Remote clock offset: 14.854 ms

Below is generated by plot.py at 2018-05-30 19:21:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.23 Mbit/s
95th percentile per-packet one-way delay: 115.462 ms
Loss rate: 3.12%
-- Flow 1:
Average throughput: 79.17 Mbit/s
95th percentile per-packet one-way delay: 115.352 ms
Loss rate: 2.88%
-- Flow 2:
Average throughput: 8.29 Mbit/s
95th percentile per-packet one-way delay: 116.773 ms
Loss rate: 4.59%
-- Flow 3:
Average throughput: 7.76 Mbit/s
95th percentile per-packet one-way delay: 121.181 ms
Loss rate: 7.19%

Run 9: Report of PCC-Allegro — Data Link

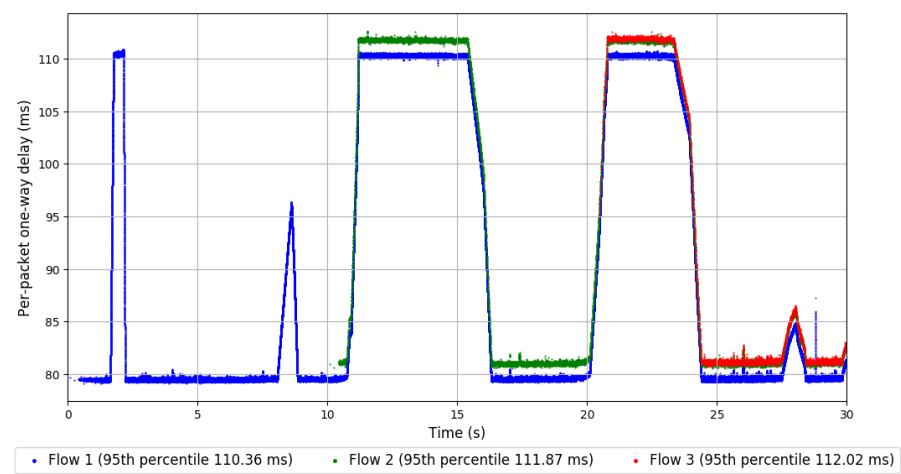
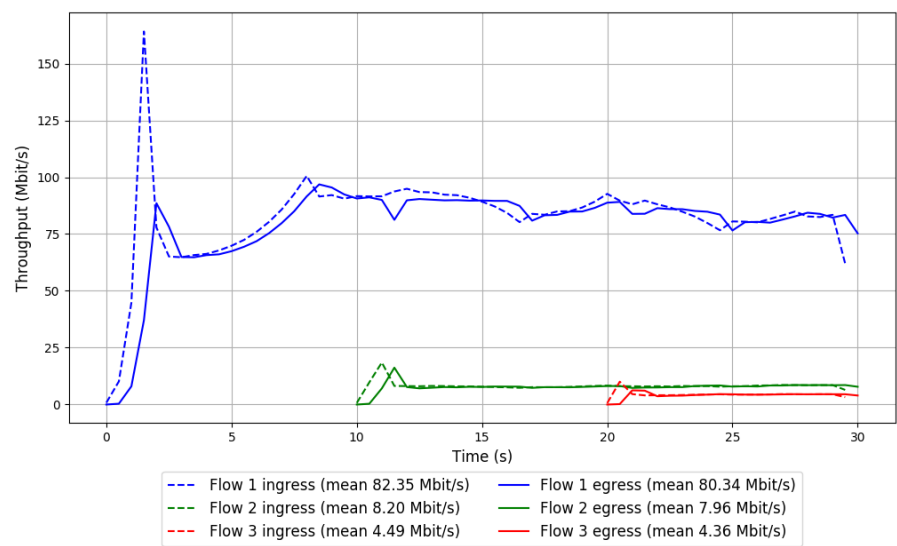


Run 10: Statistics of PCC-Allegro

Start at: 2018-05-30 18:48:20
End at: 2018-05-30 18:48:50
Local clock offset: -4.293 ms
Remote clock offset: 11.817 ms

Below is generated by plot.py at 2018-05-30 19:21:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.07 Mbit/s
95th percentile per-packet one-way delay: 110.409 ms
Loss rate: 2.47%
-- Flow 1:
Average throughput: 80.34 Mbit/s
95th percentile per-packet one-way delay: 110.365 ms
Loss rate: 2.44%
-- Flow 2:
Average throughput: 7.96 Mbit/s
95th percentile per-packet one-way delay: 111.874 ms
Loss rate: 2.88%
-- Flow 3:
Average throughput: 4.36 Mbit/s
95th percentile per-packet one-way delay: 112.018 ms
Loss rate: 2.93%

Run 10: Report of PCC-Allegro — Data Link

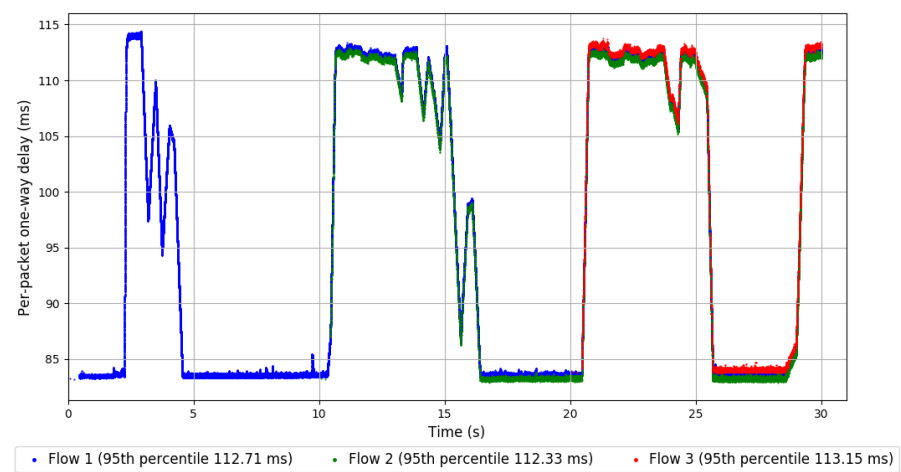
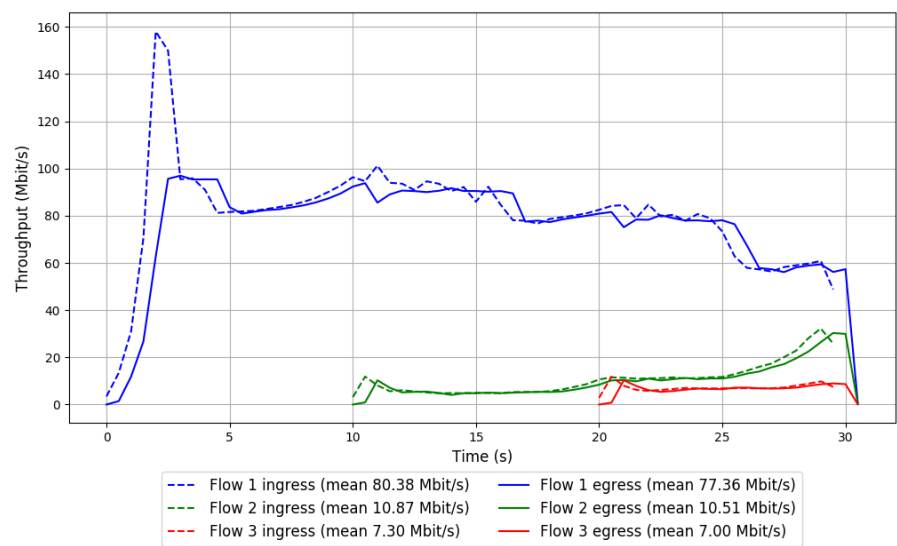


```
Run 1: Statistics of PCC-Expr

Start at: 2018-05-30 16:03:29
End at: 2018-05-30 16:03:59
Local clock offset: -1.633 ms
Remote clock offset: 9.167 ms

# Below is generated by plot.py at 2018-05-30 19:22:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.67 Mbit/s
95th percentile per-packet one-way delay: 112.715 ms
Loss rate: 3.63%
-- Flow 1:
Average throughput: 77.36 Mbit/s
95th percentile per-packet one-way delay: 112.710 ms
Loss rate: 3.66%
-- Flow 2:
Average throughput: 10.51 Mbit/s
95th percentile per-packet one-way delay: 112.331 ms
Loss rate: 3.17%
-- Flow 3:
Average throughput: 7.00 Mbit/s
95th percentile per-packet one-way delay: 113.154 ms
Loss rate: 3.78%
```

Run 1: Report of PCC-Expr — Data Link

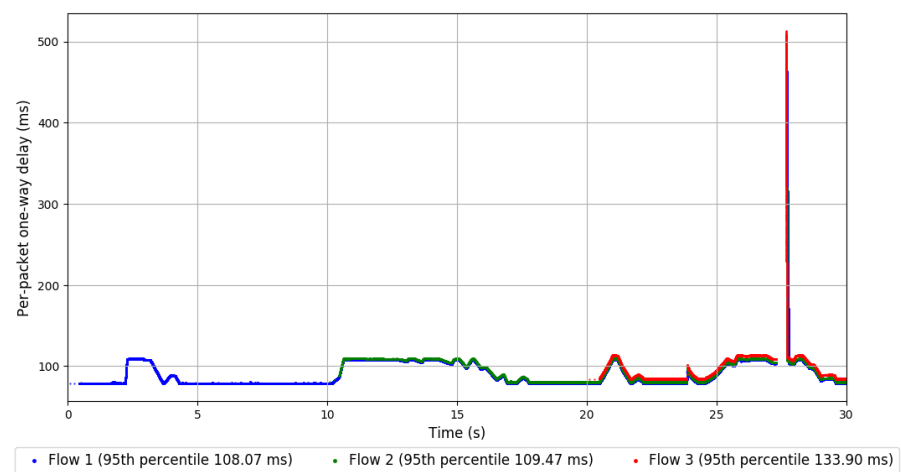
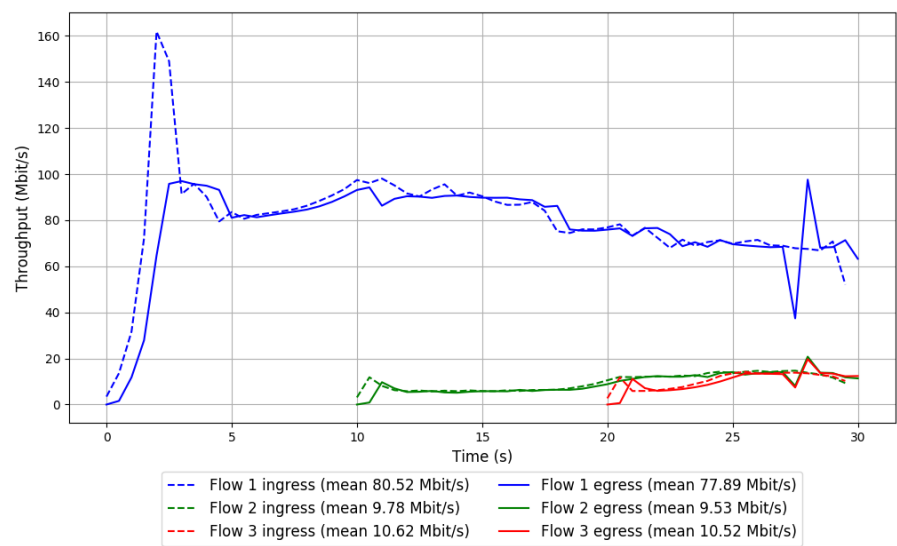


```
Run 2: Statistics of PCC-Expr

Start at: 2018-05-30 16:23:36
End at: 2018-05-30 16:24:06
Local clock offset: -2.356 ms
Remote clock offset: 3.937 ms

# Below is generated by plot.py at 2018-05-30 19:22:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.69 Mbit/s
95th percentile per-packet one-way delay: 108.970 ms
Loss rate: 3.12%
-- Flow 1:
Average throughput: 77.89 Mbit/s
95th percentile per-packet one-way delay: 108.071 ms
Loss rate: 3.27%
-- Flow 2:
Average throughput: 9.53 Mbit/s
95th percentile per-packet one-way delay: 109.472 ms
Loss rate: 2.48%
-- Flow 3:
Average throughput: 10.52 Mbit/s
95th percentile per-packet one-way delay: 133.901 ms
Loss rate: 0.92%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-05-30 16:43:50

End at: 2018-05-30 16:44:20

Local clock offset: -1.373 ms

Remote clock offset: 8.64 ms

Below is generated by plot.py at 2018-05-30 19:22:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.70 Mbit/s

95th percentile per-packet one-way delay: 112.068 ms

Loss rate: 4.21%

-- Flow 1:

Average throughput: 72.45 Mbit/s

95th percentile per-packet one-way delay: 112.060 ms

Loss rate: 4.18%

-- Flow 2:

Average throughput: 15.11 Mbit/s

95th percentile per-packet one-way delay: 112.106 ms

Loss rate: 3.90%

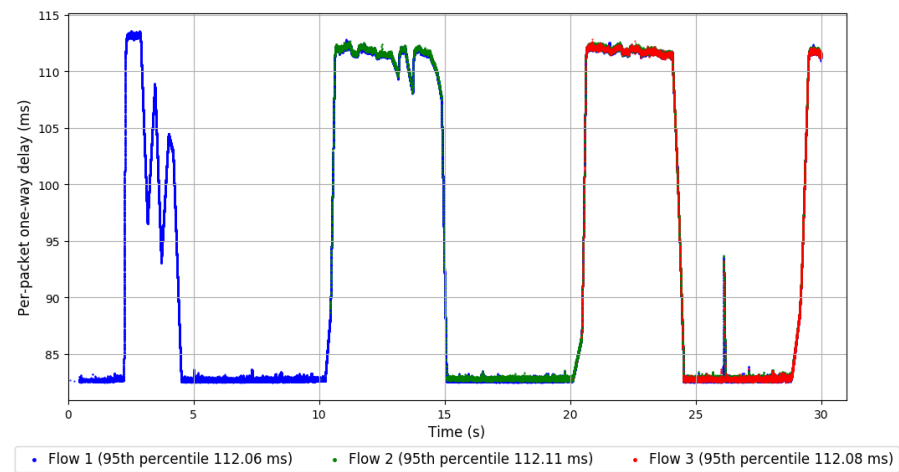
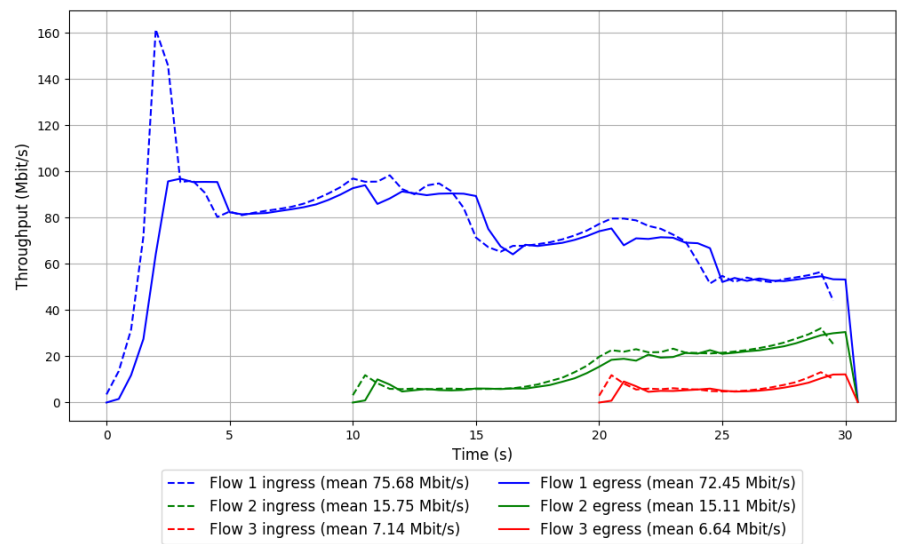
-- Flow 3:

Average throughput: 6.64 Mbit/s

95th percentile per-packet one-way delay: 112.078 ms

Loss rate: 6.74%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-05-30 17:04:00

End at: 2018-05-30 17:04:30

Local clock offset: -1.042 ms

Remote clock offset: 3.966 ms

Below is generated by plot.py at 2018-05-30 19:22:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.66 Mbit/s

95th percentile per-packet one-way delay: 107.799 ms

Loss rate: 3.59%

-- Flow 1:

Average throughput: 75.14 Mbit/s

95th percentile per-packet one-way delay: 107.269 ms

Loss rate: 3.66%

-- Flow 2:

Average throughput: 12.46 Mbit/s

95th percentile per-packet one-way delay: 108.692 ms

Loss rate: 3.04%

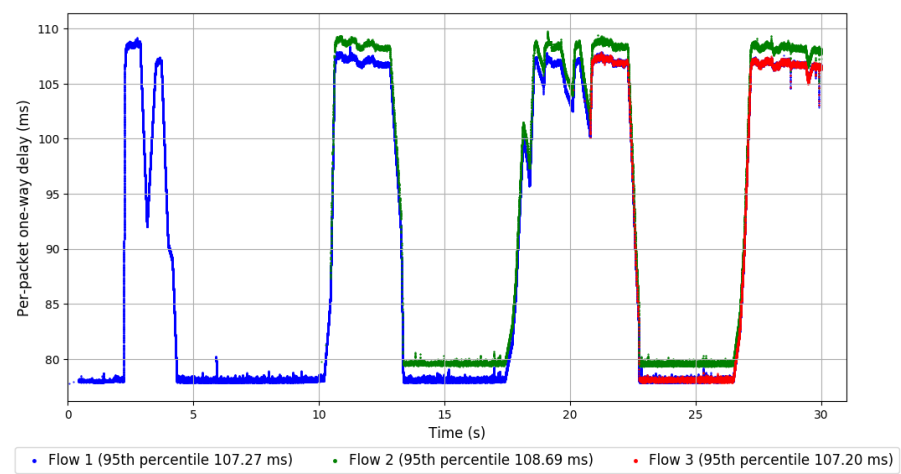
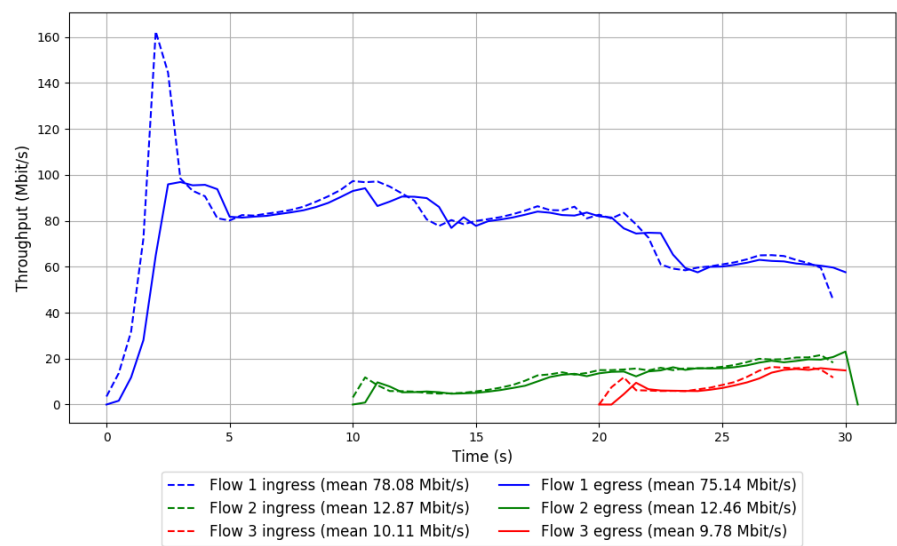
-- Flow 3:

Average throughput: 9.78 Mbit/s

95th percentile per-packet one-way delay: 107.205 ms

Loss rate: 3.31%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-05-30 17:24:11

End at: 2018-05-30 17:24:41

Local clock offset: -3.003 ms

Remote clock offset: 7.642 ms

Below is generated by plot.py at 2018-05-30 19:22:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.77 Mbit/s

95th percentile per-packet one-way delay: 111.840 ms

Loss rate: 3.62%

-- Flow 1:

Average throughput: 82.81 Mbit/s

95th percentile per-packet one-way delay: 111.801 ms

Loss rate: 3.52%

-- Flow 2:

Average throughput: 6.83 Mbit/s

95th percentile per-packet one-way delay: 576.134 ms

Loss rate: 4.32%

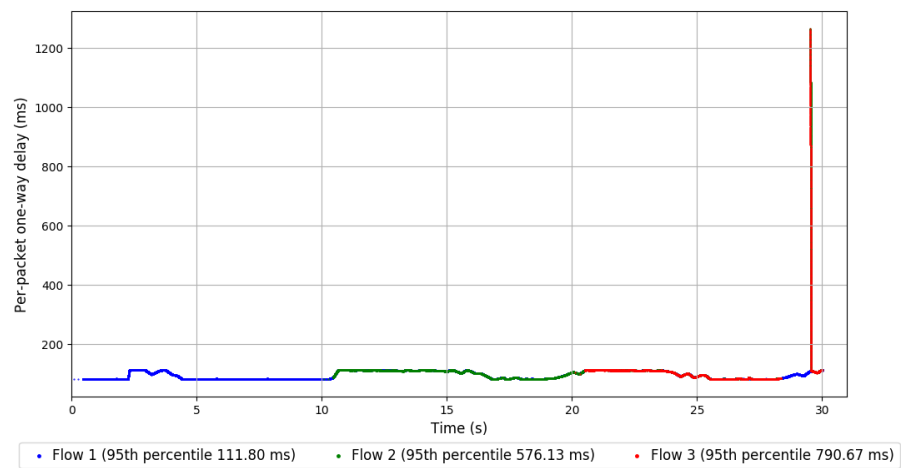
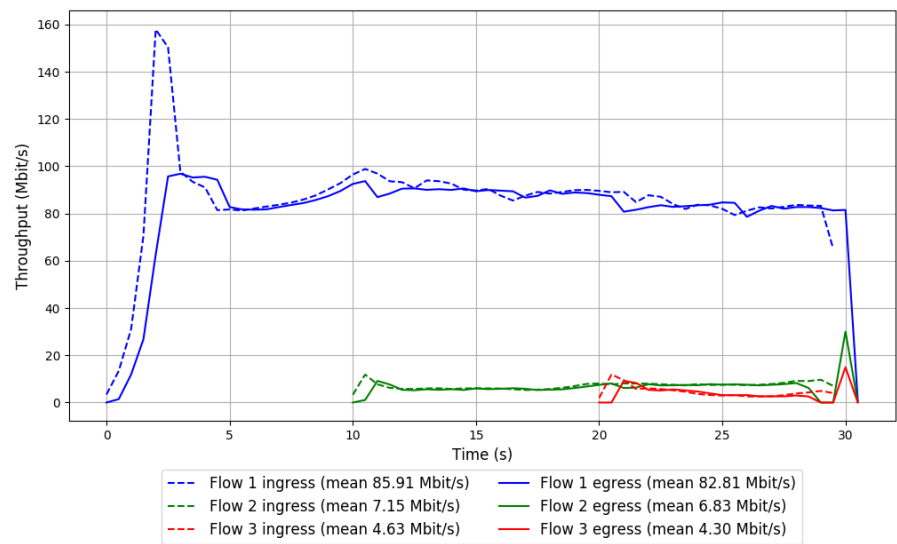
-- Flow 3:

Average throughput: 4.30 Mbit/s

95th percentile per-packet one-way delay: 790.672 ms

Loss rate: 7.01%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-05-30 17:44:12

End at: 2018-05-30 17:44:42

Local clock offset: -3.022 ms

Remote clock offset: 4.5 ms

Below is generated by plot.py at 2018-05-30 19:23:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.10 Mbit/s

95th percentile per-packet one-way delay: 110.324 ms

Loss rate: 3.45%

-- Flow 1:

Average throughput: 78.56 Mbit/s

95th percentile per-packet one-way delay: 110.335 ms

Loss rate: 3.50%

-- Flow 2:

Average throughput: 9.39 Mbit/s

95th percentile per-packet one-way delay: 110.305 ms

Loss rate: 3.07%

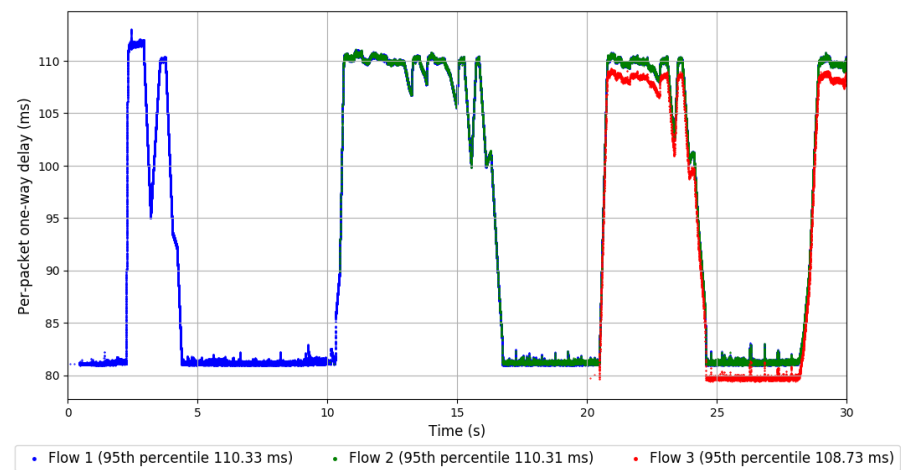
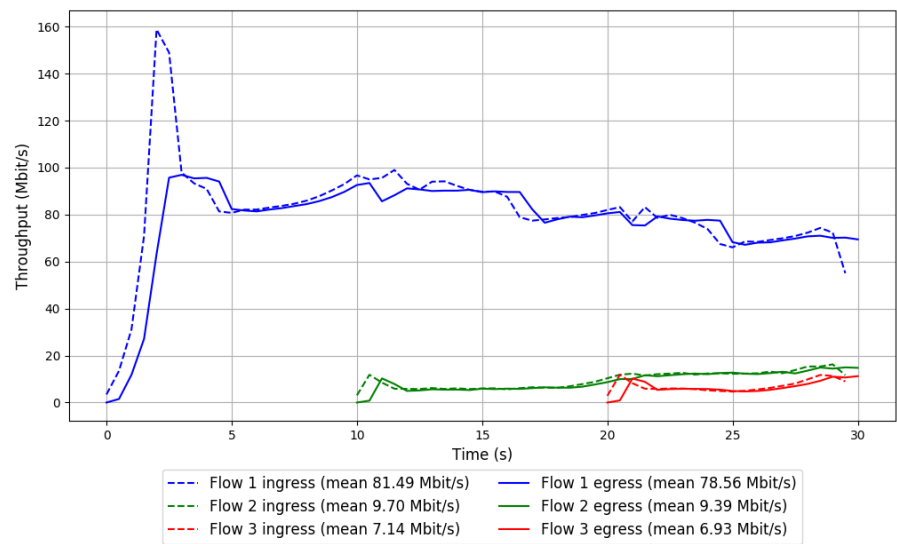
-- Flow 3:

Average throughput: 6.93 Mbit/s

95th percentile per-packet one-way delay: 108.728 ms

Loss rate: 2.72%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-05-30 18:04:15

End at: 2018-05-30 18:04:45

Local clock offset: -3.016 ms

Remote clock offset: 12.91 ms

Below is generated by plot.py at 2018-05-30 19:23:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.43 Mbit/s

95th percentile per-packet one-way delay: 114.375 ms

Loss rate: 9.20%

-- Flow 1:

Average throughput: 76.57 Mbit/s

95th percentile per-packet one-way delay: 114.396 ms

Loss rate: 8.35%

-- Flow 2:

Average throughput: 9.02 Mbit/s

95th percentile per-packet one-way delay: 114.213 ms

Loss rate: 13.96%

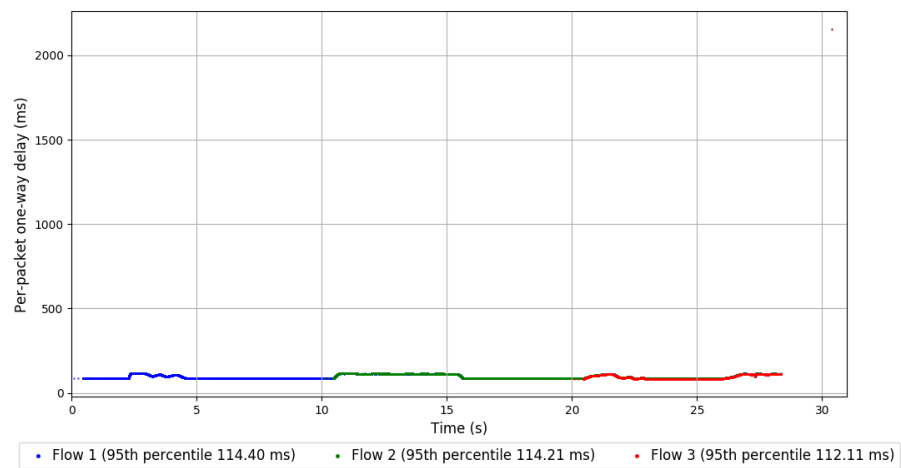
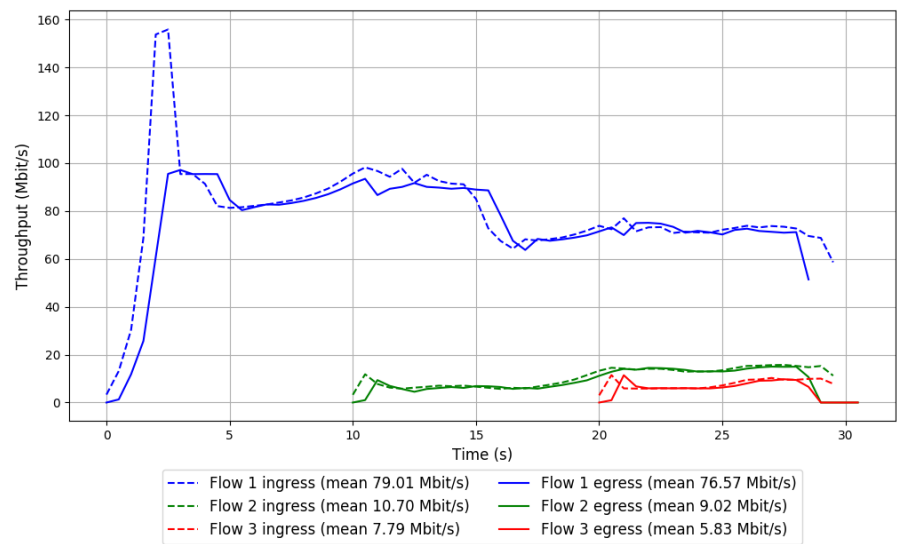
-- Flow 3:

Average throughput: 5.83 Mbit/s

95th percentile per-packet one-way delay: 112.107 ms

Loss rate: 21.92%

Run 7: Report of PCC-Expr — Data Link

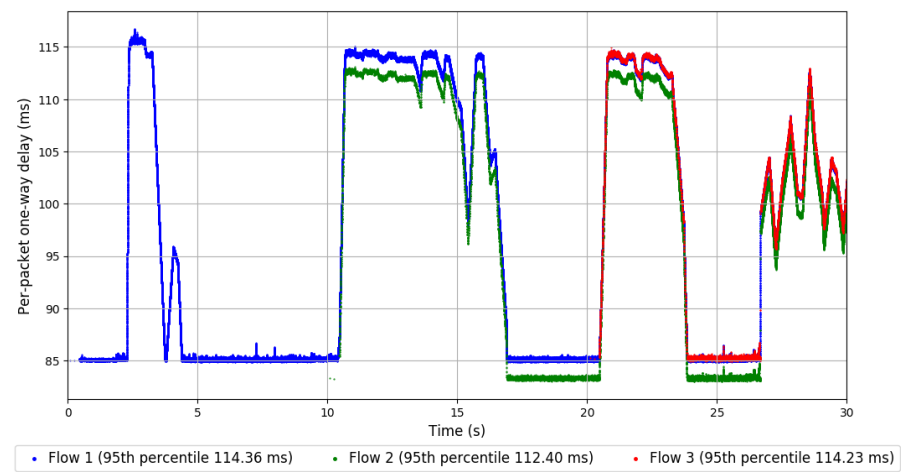
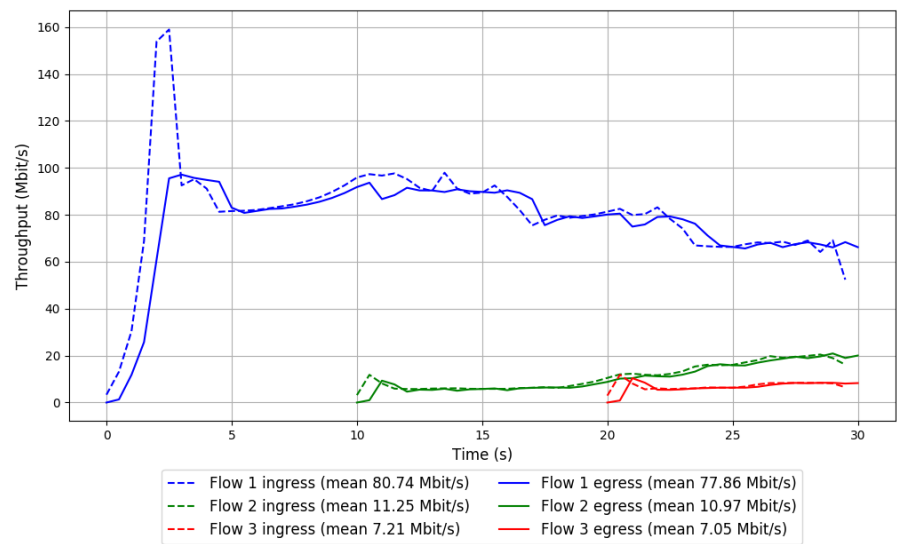


Run 8: Statistics of PCC-Expr

Start at: 2018-05-30 18:24:19
End at: 2018-05-30 18:24:49
Local clock offset: -4.283 ms
Remote clock offset: 13.633 ms

Below is generated by plot.py at 2018-05-30 19:23:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.49 Mbit/s
95th percentile per-packet one-way delay: 114.330 ms
Loss rate: 3.38%
-- Flow 1:
Average throughput: 77.86 Mbit/s
95th percentile per-packet one-way delay: 114.356 ms
Loss rate: 3.51%
-- Flow 2:
Average throughput: 10.97 Mbit/s
95th percentile per-packet one-way delay: 112.401 ms
Loss rate: 2.40%
-- Flow 3:
Average throughput: 7.05 Mbit/s
95th percentile per-packet one-way delay: 114.227 ms
Loss rate: 2.03%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-05-30 18:44:26

End at: 2018-05-30 18:44:56

Local clock offset: -3.45 ms

Remote clock offset: 15.58 ms

Below is generated by plot.py at 2018-05-30 19:24:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.61 Mbit/s

95th percentile per-packet one-way delay: 119.146 ms

Loss rate: 3.93%

-- Flow 1:

Average throughput: 76.06 Mbit/s

95th percentile per-packet one-way delay: 119.174 ms

Loss rate: 3.91%

-- Flow 2:

Average throughput: 14.65 Mbit/s

95th percentile per-packet one-way delay: 111.765 ms

Loss rate: 3.36%

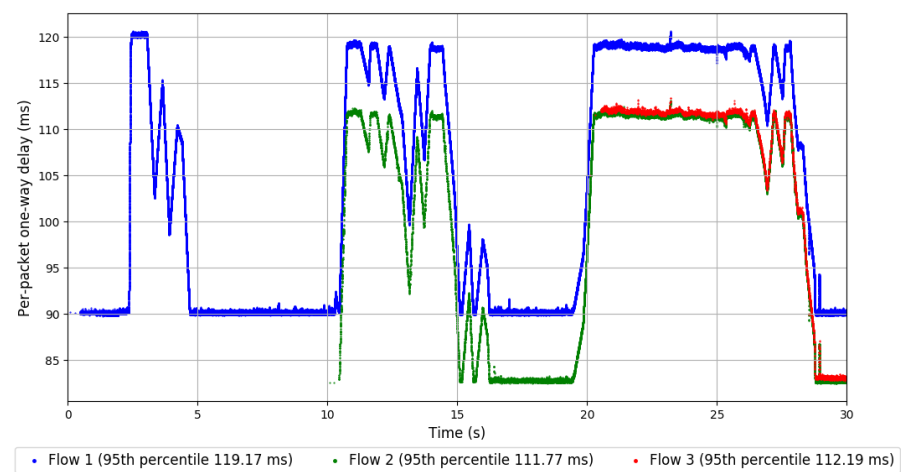
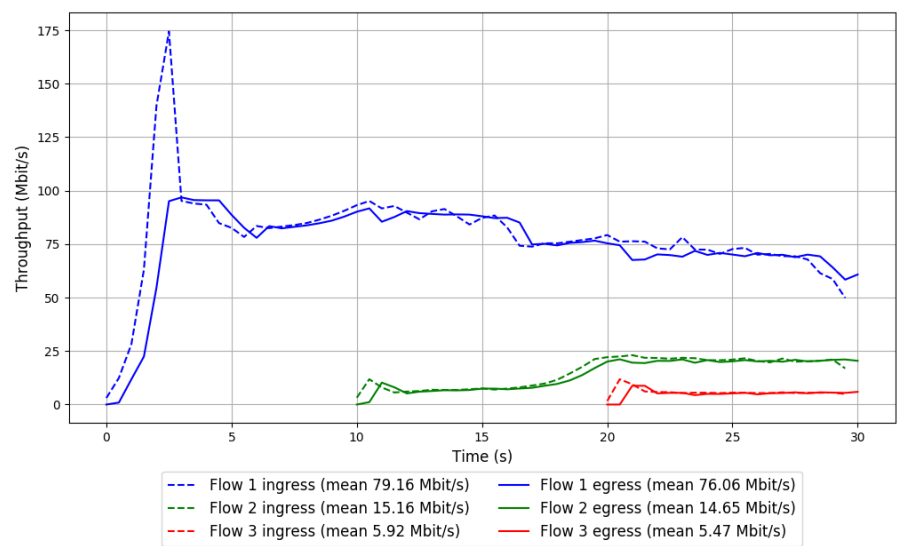
-- Flow 3:

Average throughput: 5.47 Mbit/s

95th percentile per-packet one-way delay: 112.192 ms

Loss rate: 7.75%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-05-30 19:04:31

End at: 2018-05-30 19:05:01

Local clock offset: -4.696 ms

Remote clock offset: 8.793 ms

Below is generated by plot.py at 2018-05-30 19:24:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.33 Mbit/s

95th percentile per-packet one-way delay: 119.118 ms

Loss rate: 3.48%

-- Flow 1:

Average throughput: 73.69 Mbit/s

95th percentile per-packet one-way delay: 119.155 ms

Loss rate: 3.71%

-- Flow 2:

Average throughput: 13.11 Mbit/s

95th percentile per-packet one-way delay: 113.383 ms

Loss rate: 1.88%

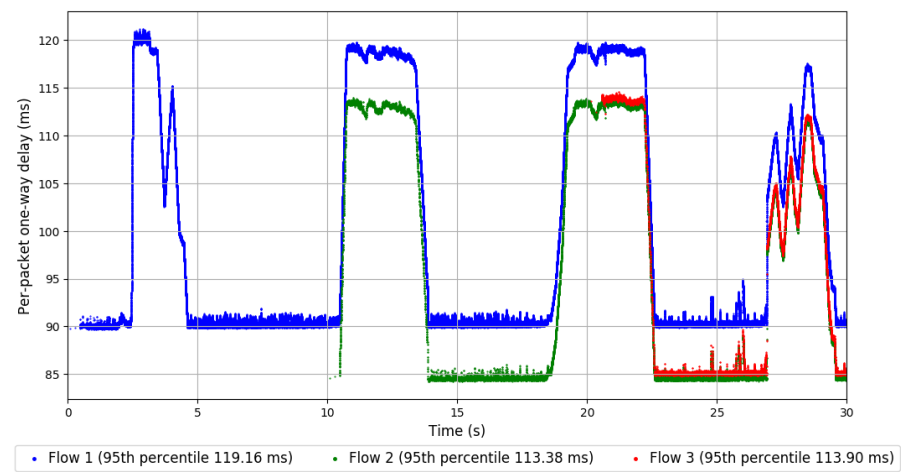
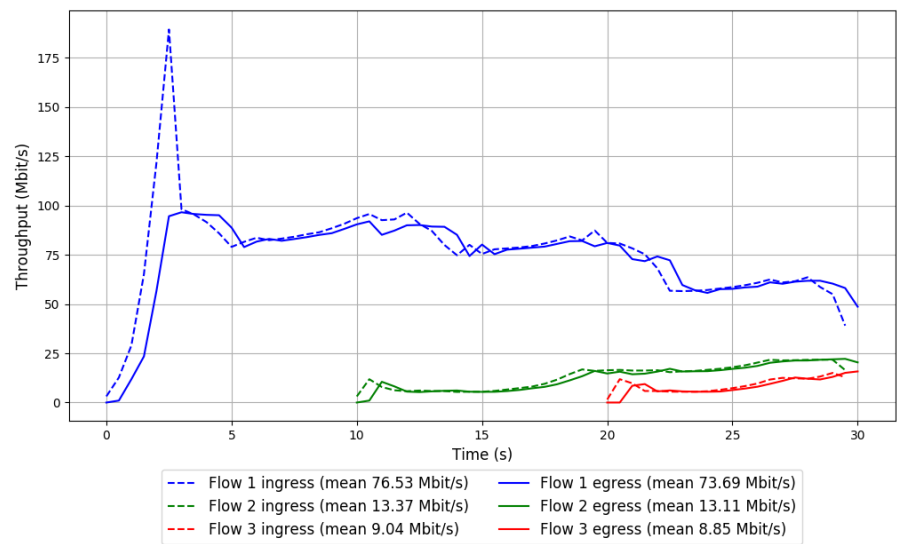
-- Flow 3:

Average throughput: 8.85 Mbit/s

95th percentile per-packet one-way delay: 113.896 ms

Loss rate: 2.30%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-05-30 15:49:44

End at: 2018-05-30 15:50:14

Local clock offset: -0.961 ms

Remote clock offset: 4.924 ms

Below is generated by plot.py at 2018-05-30 19:24:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.20 Mbit/s

95th percentile per-packet one-way delay: 106.829 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 51.06 Mbit/s

95th percentile per-packet one-way delay: 107.138 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 19.46 Mbit/s

95th percentile per-packet one-way delay: 106.007 ms

Loss rate: 0.18%

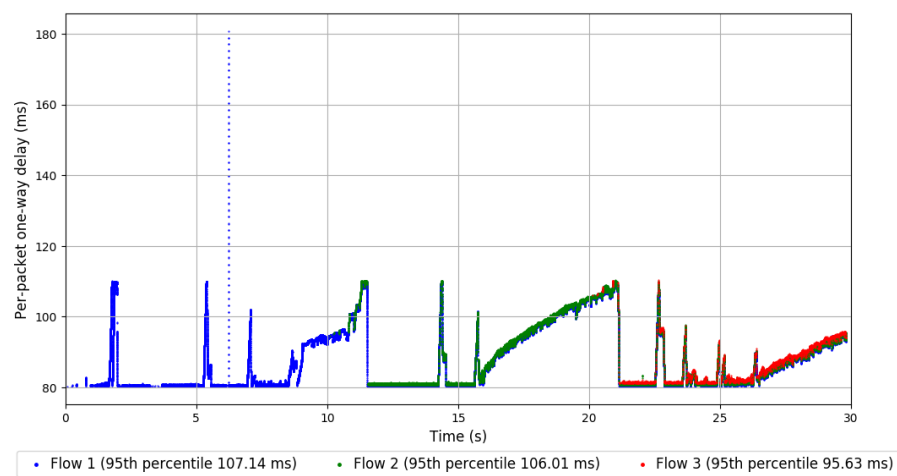
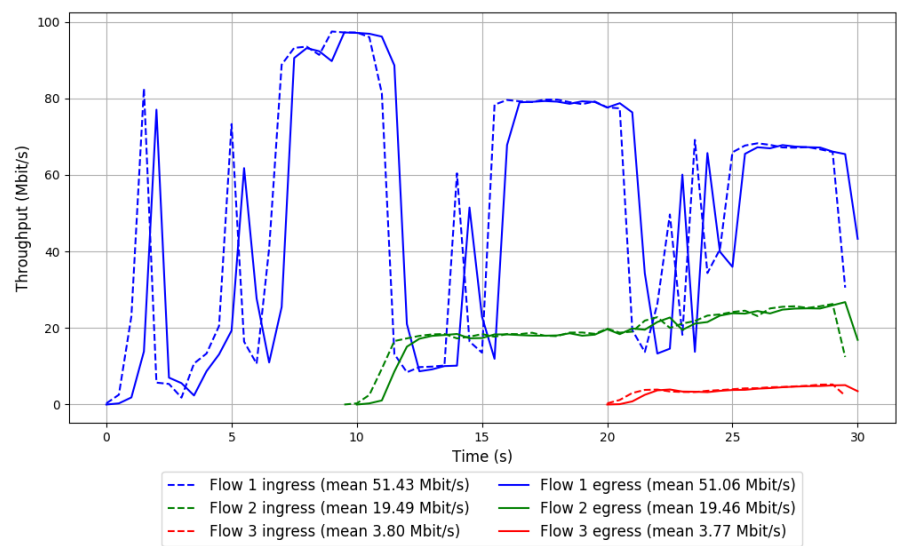
-- Flow 3:

Average throughput: 3.77 Mbit/s

95th percentile per-packet one-way delay: 95.632 ms

Loss rate: 0.71%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-05-30 16:09:51

End at: 2018-05-30 16:10:21

Local clock offset: -1.164 ms

Remote clock offset: 8.948 ms

Below is generated by plot.py at 2018-05-30 19:24:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.41 Mbit/s

95th percentile per-packet one-way delay: 110.417 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 45.78 Mbit/s

95th percentile per-packet one-way delay: 110.913 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 17.12 Mbit/s

95th percentile per-packet one-way delay: 108.503 ms

Loss rate: 0.55%

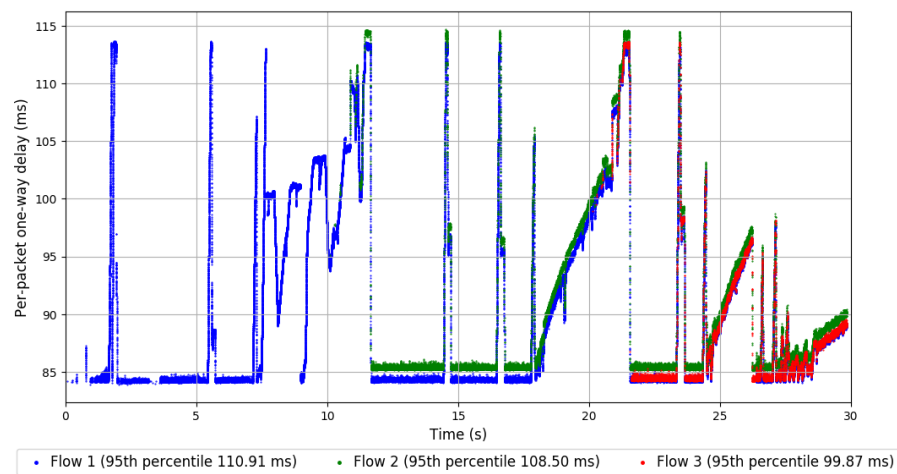
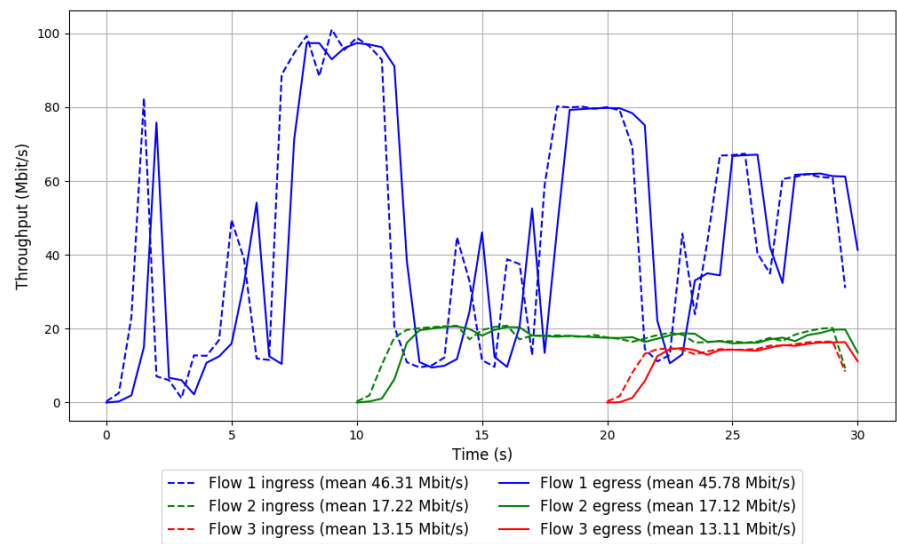
-- Flow 3:

Average throughput: 13.11 Mbit/s

95th percentile per-packet one-way delay: 99.872 ms

Loss rate: 0.43%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-05-30 16:29:54

End at: 2018-05-30 16:30:24

Local clock offset: -2.414 ms

Remote clock offset: 4.594 ms

Below is generated by plot.py at 2018-05-30 19:24:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.39 Mbit/s

95th percentile per-packet one-way delay: 106.183 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 54.54 Mbit/s

95th percentile per-packet one-way delay: 106.565 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 18.41 Mbit/s

95th percentile per-packet one-way delay: 105.345 ms

Loss rate: 0.24%

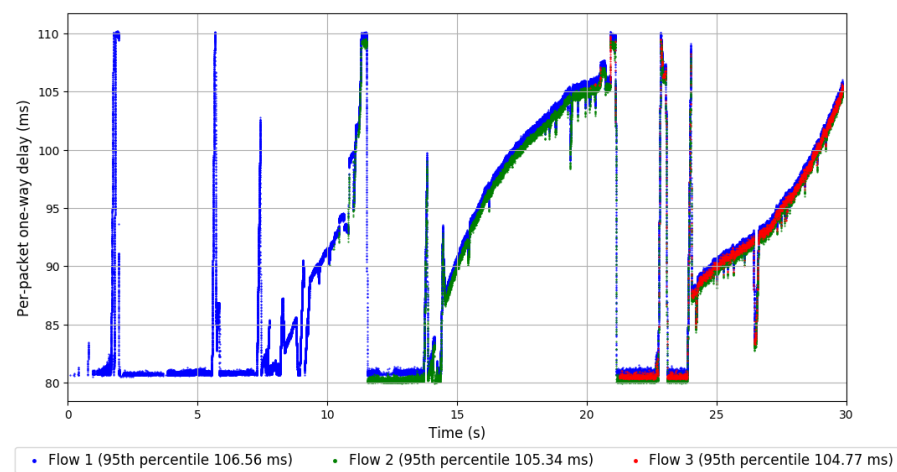
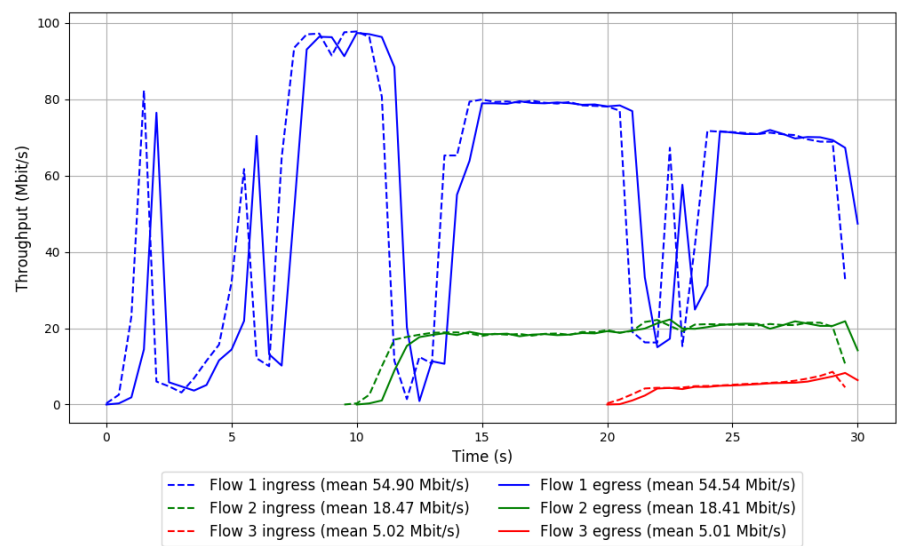
-- Flow 3:

Average throughput: 5.01 Mbit/s

95th percentile per-packet one-way delay: 104.770 ms

Loss rate: 0.21%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-05-30 16:50:16

End at: 2018-05-30 16:50:46

Local clock offset: -2.703 ms

Remote clock offset: 3.86 ms

Below is generated by plot.py at 2018-05-30 19:24:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.52 Mbit/s

95th percentile per-packet one-way delay: 109.046 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 46.18 Mbit/s

95th percentile per-packet one-way delay: 112.012 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 20.29 Mbit/s

95th percentile per-packet one-way delay: 100.480 ms

Loss rate: 0.37%

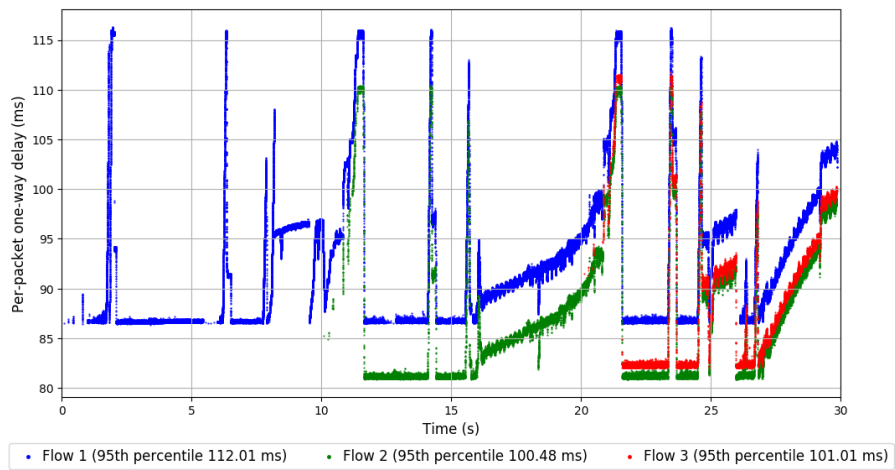
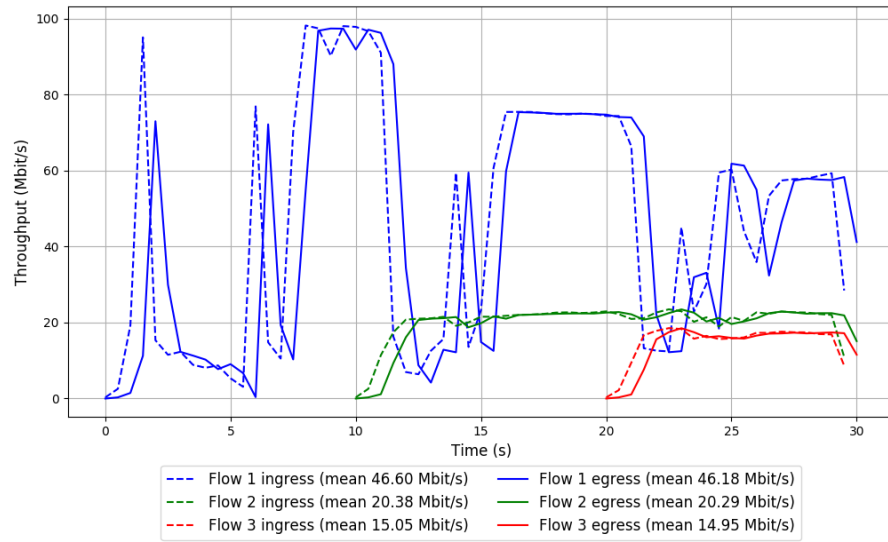
-- Flow 3:

Average throughput: 14.95 Mbit/s

95th percentile per-packet one-way delay: 101.011 ms

Loss rate: 0.58%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-05-30 17:10:29

End at: 2018-05-30 17:10:59

Local clock offset: -2.339 ms

Remote clock offset: 4.008 ms

Below is generated by plot.py at 2018-05-30 19:24:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.05 Mbit/s

95th percentile per-packet one-way delay: 109.485 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 44.82 Mbit/s

95th percentile per-packet one-way delay: 111.638 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 20.00 Mbit/s

95th percentile per-packet one-way delay: 102.361 ms

Loss rate: 0.42%

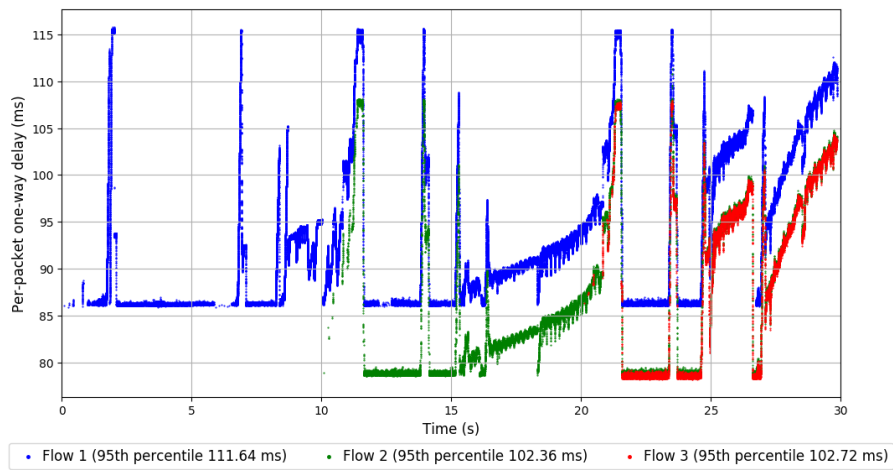
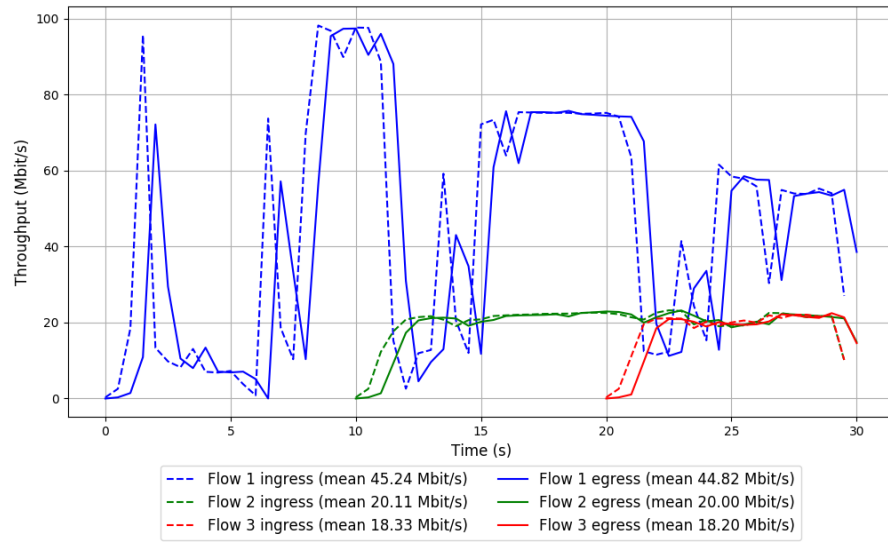
-- Flow 3:

Average throughput: 18.20 Mbit/s

95th percentile per-packet one-way delay: 102.717 ms

Loss rate: 0.49%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-05-30 17:30:29

End at: 2018-05-30 17:30:59

Local clock offset: -3.984 ms

Remote clock offset: 7.698 ms

Below is generated by plot.py at 2018-05-30 19:24:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.64 Mbit/s

95th percentile per-packet one-way delay: 108.418 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 43.92 Mbit/s

95th percentile per-packet one-way delay: 109.541 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 30.76 Mbit/s

95th percentile per-packet one-way delay: 106.097 ms

Loss rate: 0.50%

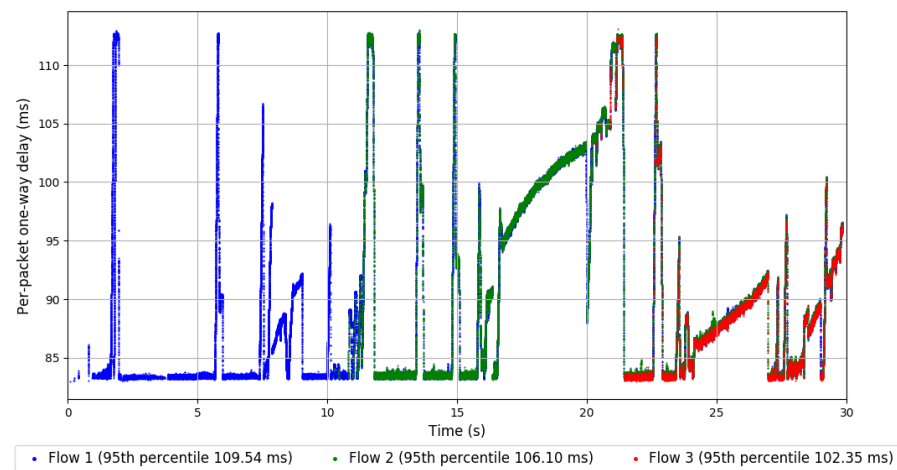
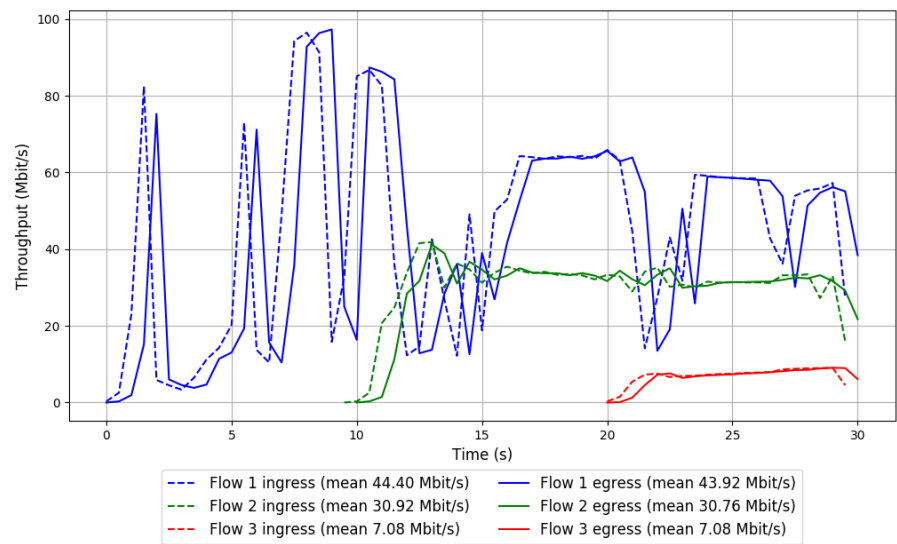
-- Flow 3:

Average throughput: 7.08 Mbit/s

95th percentile per-packet one-way delay: 102.346 ms

Loss rate: 0.16%

Run 6: Report of QUIC Cubic — Data Link

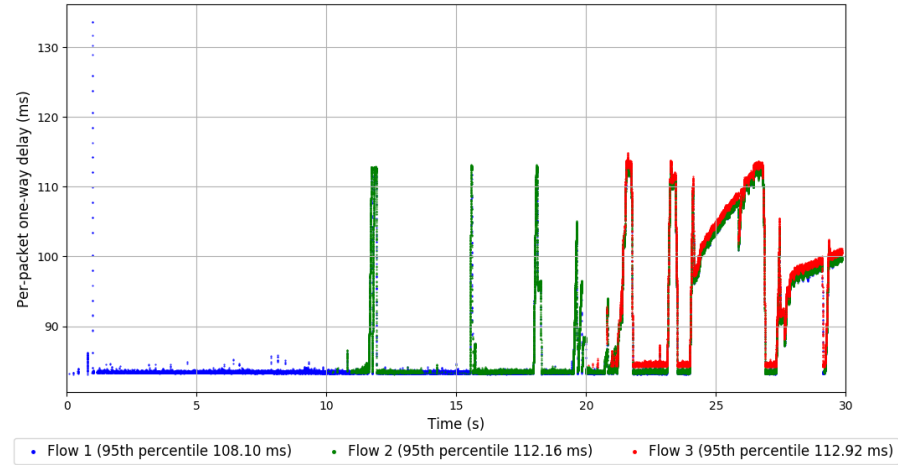
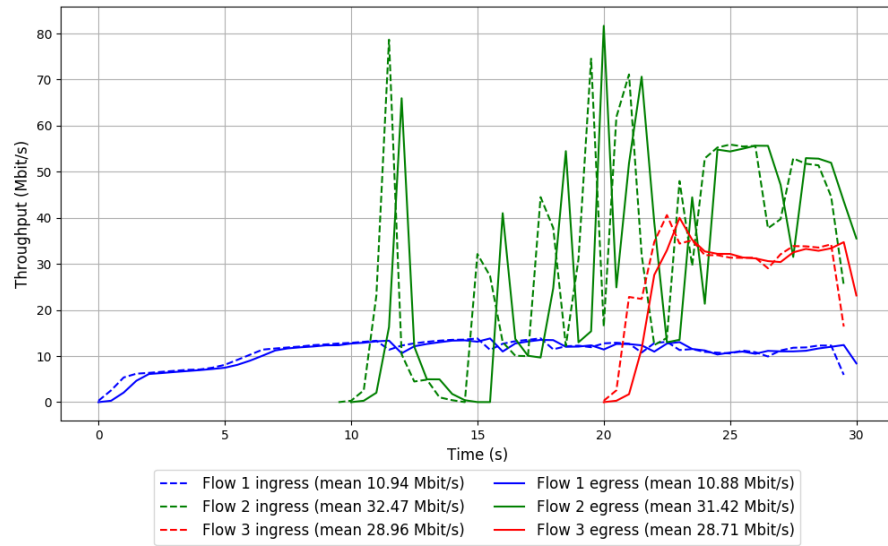


Run 7: Statistics of QUIC Cubic

Start at: 2018-05-30 17:50:32
End at: 2018-05-30 17:51:02
Local clock offset: -3.037 ms
Remote clock offset: 10.067 ms

Below is generated by plot.py at 2018-05-30 19:24:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.16 Mbit/s
95th percentile per-packet one-way delay: 112.079 ms
Loss rate: 1.91%
-- Flow 1:
Average throughput: 10.88 Mbit/s
95th percentile per-packet one-way delay: 108.101 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 31.42 Mbit/s
95th percentile per-packet one-way delay: 112.163 ms
Loss rate: 3.14%
-- Flow 3:
Average throughput: 28.71 Mbit/s
95th percentile per-packet one-way delay: 112.918 ms
Loss rate: 0.69%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-05-30 18:10:34

End at: 2018-05-30 18:11:04

Local clock offset: -3.182 ms

Remote clock offset: 9.529 ms

Below is generated by plot.py at 2018-05-30 19:24:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.47 Mbit/s

95th percentile per-packet one-way delay: 111.365 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 45.74 Mbit/s

95th percentile per-packet one-way delay: 114.181 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 18.92 Mbit/s

95th percentile per-packet one-way delay: 100.960 ms

Loss rate: 0.31%

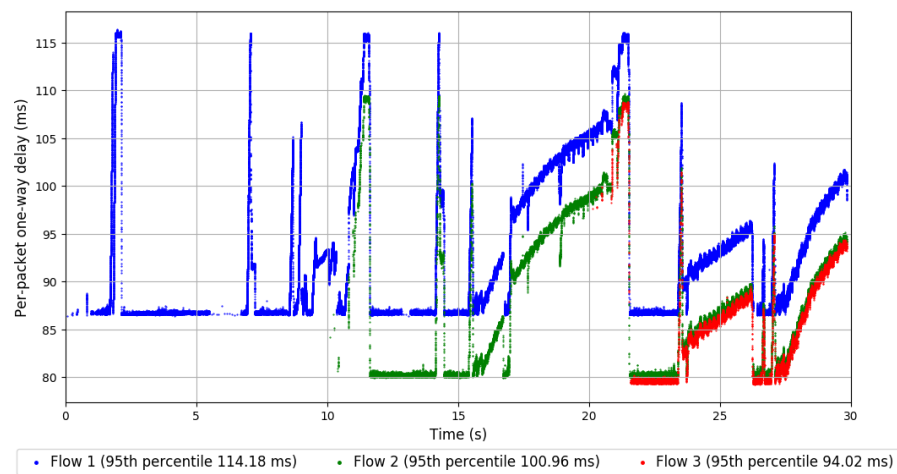
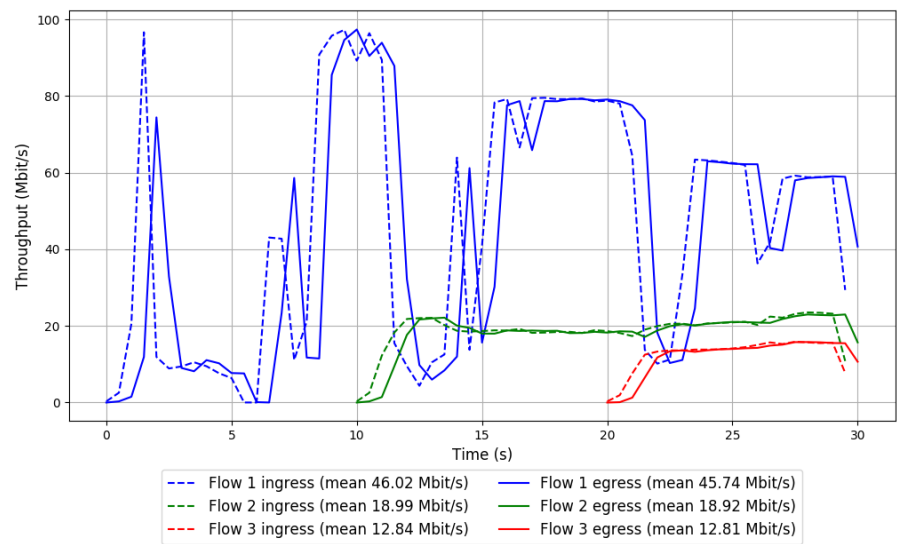
-- Flow 3:

Average throughput: 12.81 Mbit/s

95th percentile per-packet one-way delay: 94.017 ms

Loss rate: 0.27%

Run 8: Report of QUIC Cubic — Data Link

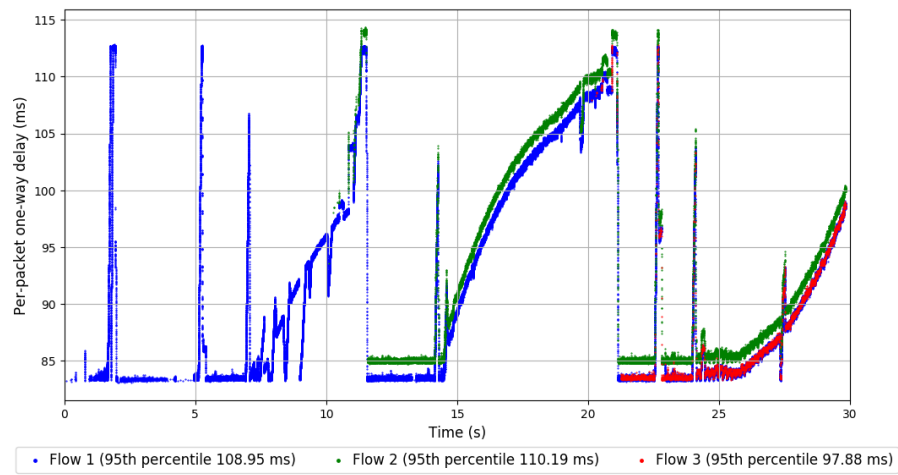
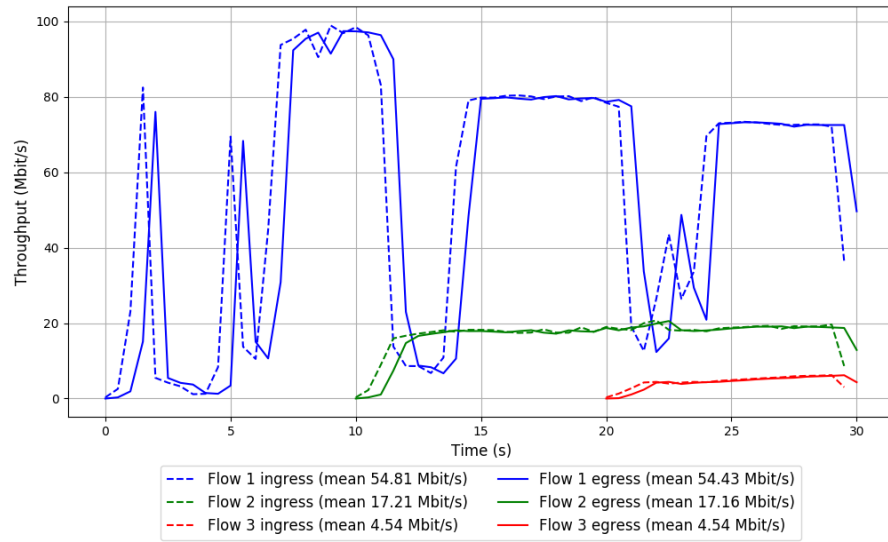


Run 9: Statistics of QUIC Cubic

Start at: 2018-05-30 18:30:40
End at: 2018-05-30 18:31:10
Local clock offset: -3.621 ms
Remote clock offset: 14.725 ms

Below is generated by plot.py at 2018-05-30 19:25:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 67.29 Mbit/s
95th percentile per-packet one-way delay: 109.223 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 54.43 Mbit/s
95th percentile per-packet one-way delay: 108.951 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 17.16 Mbit/s
95th percentile per-packet one-way delay: 110.195 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 4.54 Mbit/s
95th percentile per-packet one-way delay: 97.882 ms
Loss rate: 0.28%

Run 9: Report of QUIC Cubic — Data Link

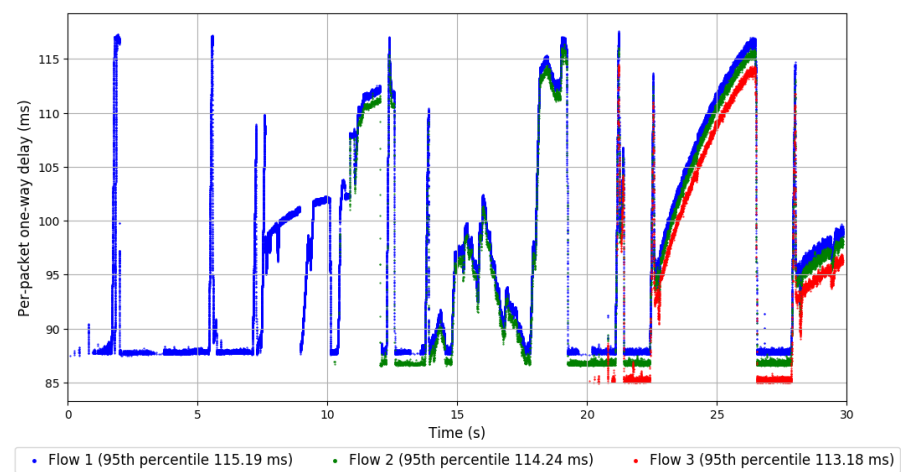
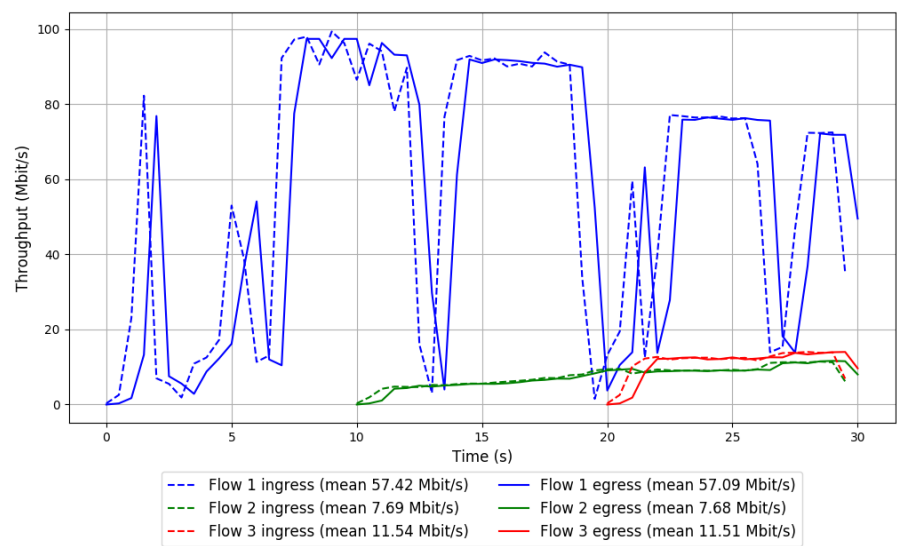


Run 10: Statistics of QUIC Cubic

Start at: 2018-05-30 18:50:46
End at: 2018-05-30 18:51:16
Local clock offset: -5.192 ms
Remote clock offset: 16.753 ms

Below is generated by plot.py at 2018-05-30 19:25:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.95 Mbit/s
95th percentile per-packet one-way delay: 114.996 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 57.09 Mbit/s
95th percentile per-packet one-way delay: 115.188 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 7.68 Mbit/s
95th percentile per-packet one-way delay: 114.244 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 11.51 Mbit/s
95th percentile per-packet one-way delay: 113.176 ms
Loss rate: 0.07%

Run 10: Report of QUIC Cubic — Data Link

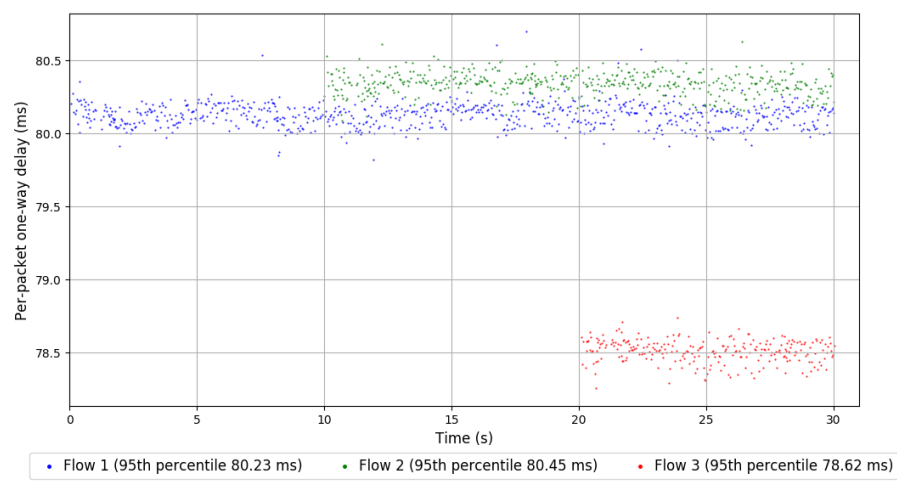
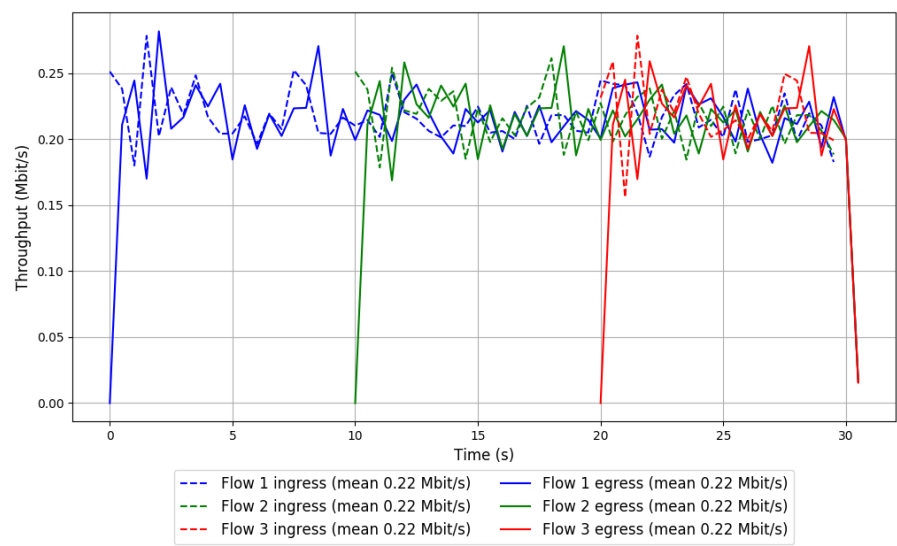


```
Run 1: Statistics of SReAM

Start at: 2018-05-30 15:57:10
End at: 2018-05-30 15:57:40
Local clock offset: -1.683 ms
Remote clock offset: 4.311 ms

# Below is generated by plot.py at 2018-05-30 19:25:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 80.420 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.231 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.455 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.621 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

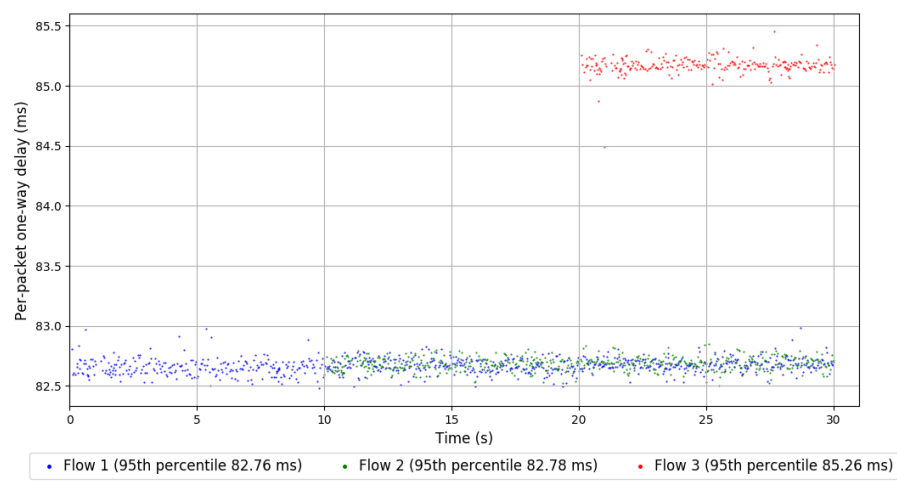
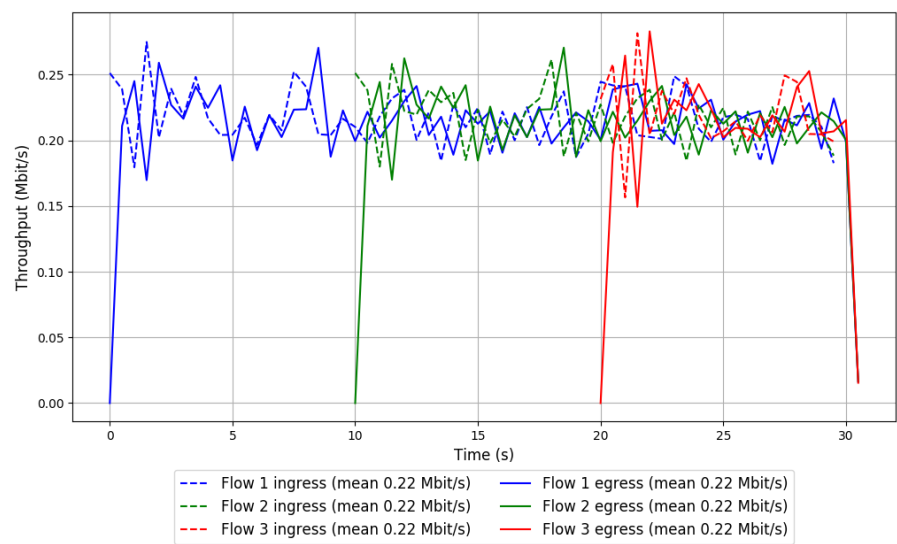


Run 2: Statistics of SReAM

Start at: 2018-05-30 16:17:20
End at: 2018-05-30 16:17:50
Local clock offset: -1.406 ms
Remote clock offset: 8.821 ms

Below is generated by plot.py at 2018-05-30 19:25:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 85.193 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.763 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.779 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.261 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-05-30 16:37:33

End at: 2018-05-30 16:38:03

Local clock offset: -1.56 ms

Remote clock offset: 8.648 ms

Below is generated by plot.py at 2018-05-30 19:25:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 84.494 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.487 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.512 ms

Loss rate: 0.00%

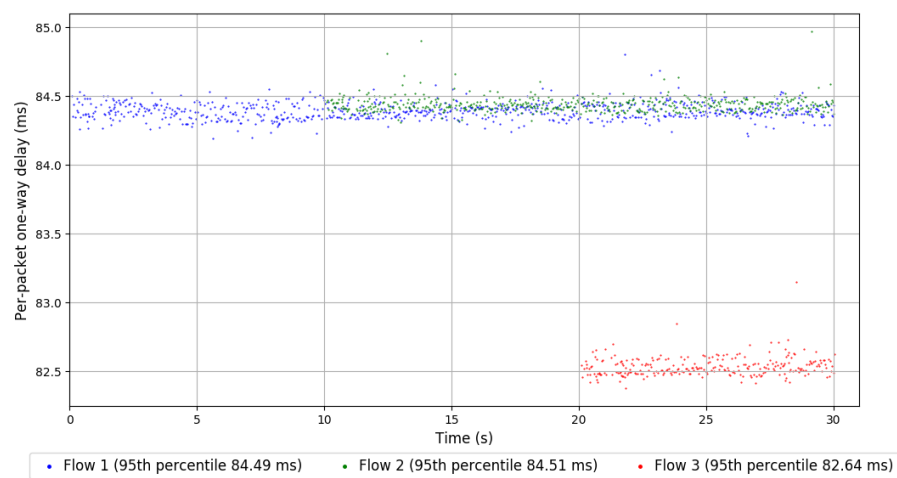
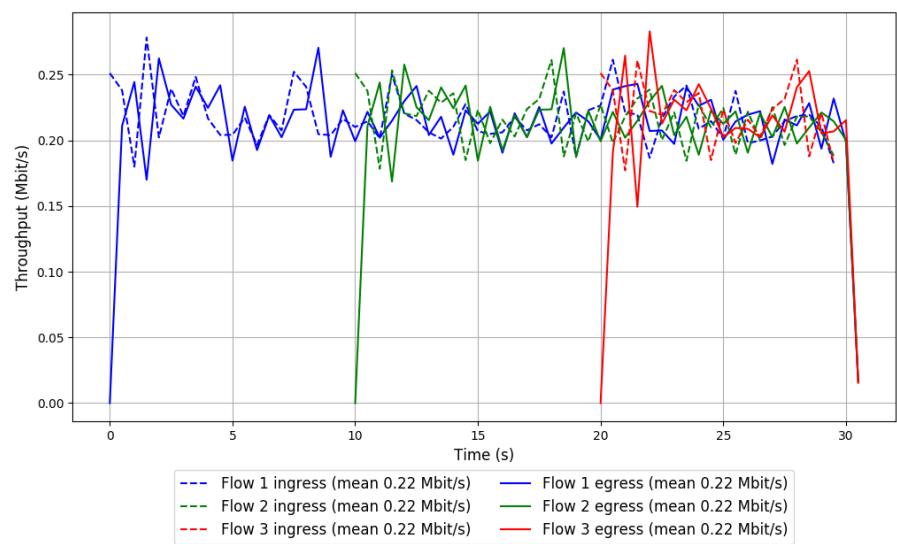
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 82.640 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

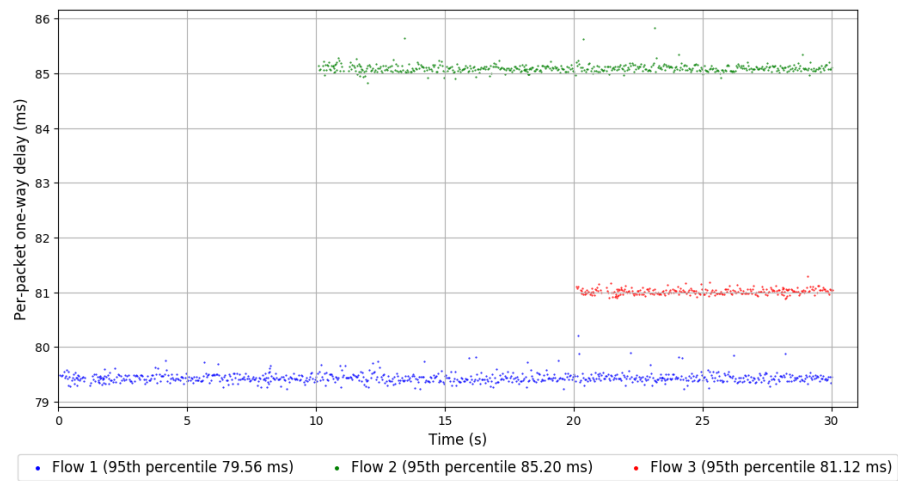
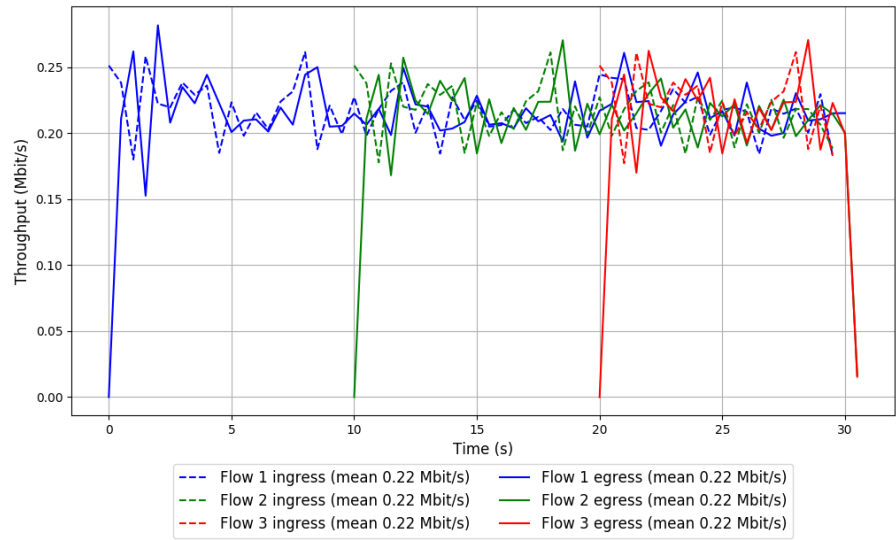


Run 4: Statistics of SReAM

Start at: 2018-05-30 16:57:45
End at: 2018-05-30 16:58:15
Local clock offset: -1.865 ms
Remote clock offset: 4.689 ms

Below is generated by plot.py at 2018-05-30 19:25:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 85.151 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.556 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.196 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.116 ms
Loss rate: 0.00%

Run 4: Report of SCReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-05-30 17:17:57

End at: 2018-05-30 17:18:27

Local clock offset: -2.788 ms

Remote clock offset: 3.768 ms

Below is generated by plot.py at 2018-05-30 19:25:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 80.234 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 78.505 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 78.433 ms

Loss rate: 0.00%

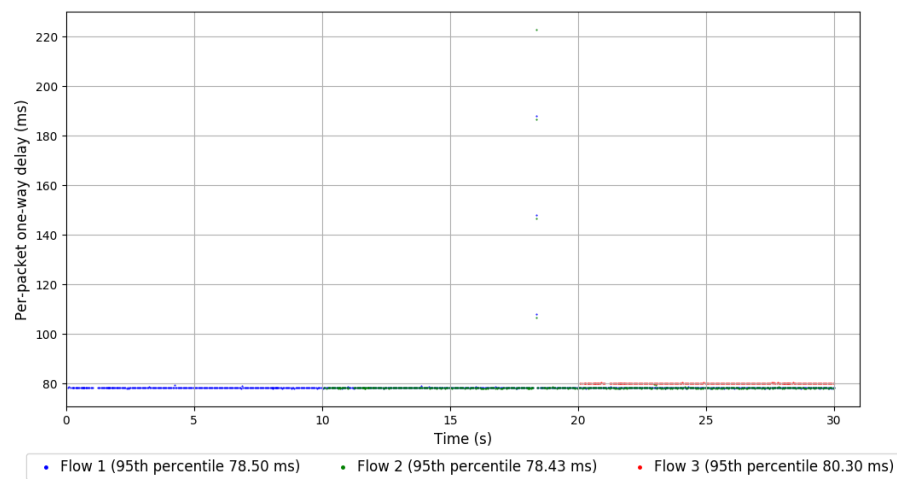
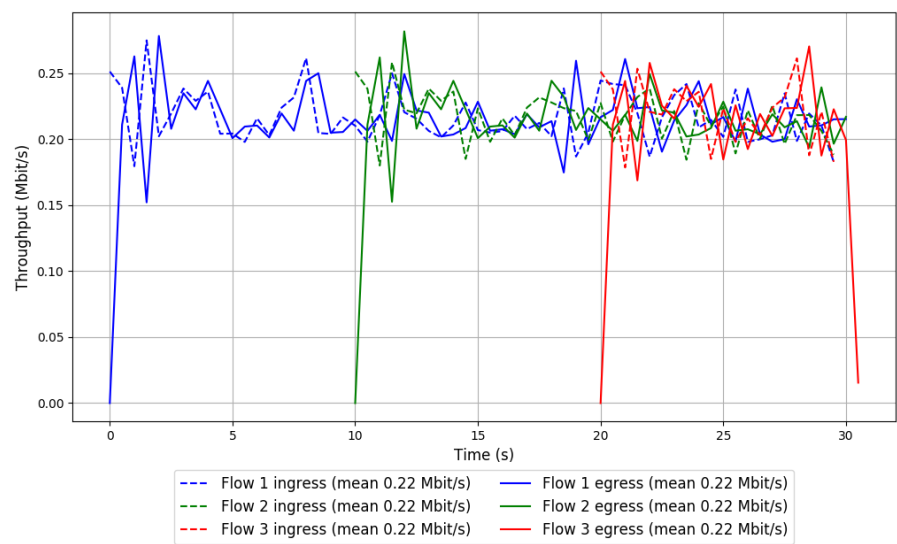
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.303 ms

Loss rate: 0.00%

Run 5: Report of SCReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-05-30 17:37:58

End at: 2018-05-30 17:38:28

Local clock offset: -2.41 ms

Remote clock offset: 4.622 ms

Below is generated by plot.py at 2018-05-30 19:25:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 81.472 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.393 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 81.546 ms

Loss rate: 0.00%

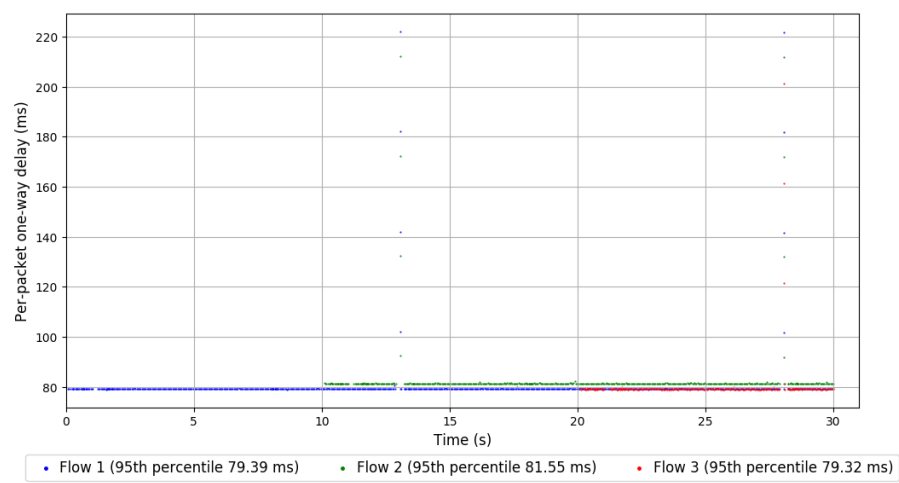
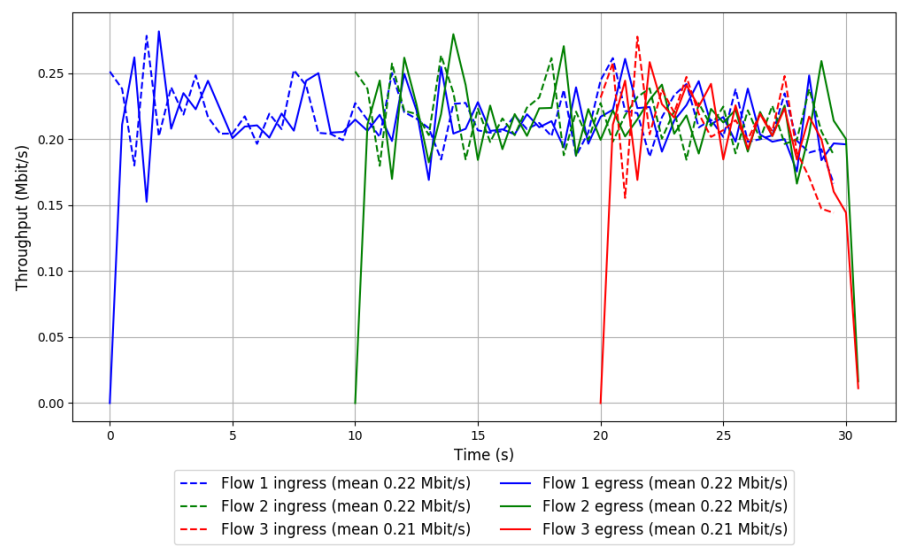
-- Flow 3:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 79.318 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

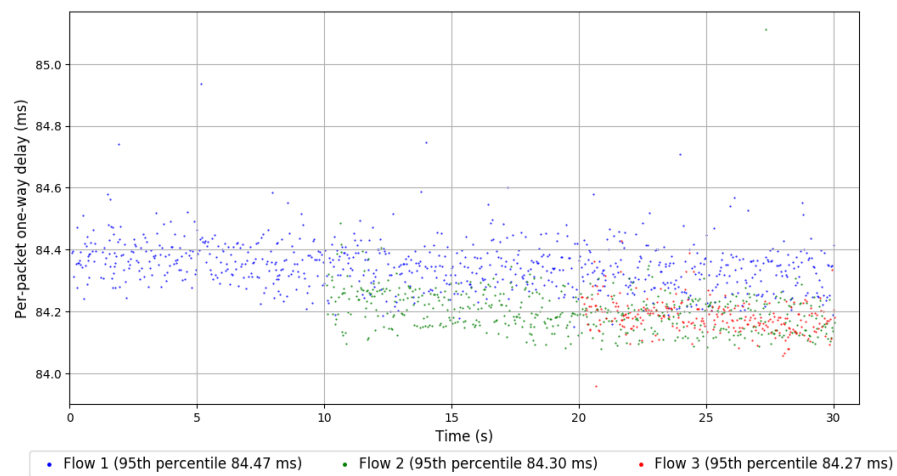
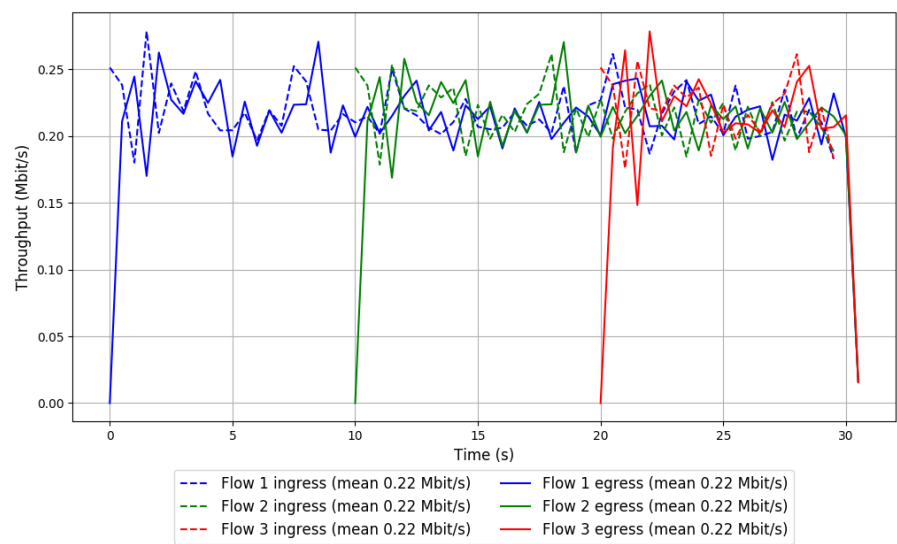


Run 7: Statistics of SReAM

Start at: 2018-05-30 17:58:00
End at: 2018-05-30 17:58:30
Local clock offset: -2.972 ms
Remote clock offset: 11.328 ms

Below is generated by plot.py at 2018-05-30 19:25:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 84.437 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.471 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.302 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.273 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-05-30 18:18:03

End at: 2018-05-30 18:18:33

Local clock offset: -2.62 ms

Remote clock offset: 9.339 ms

Below is generated by plot.py at 2018-05-30 19:25:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 79.433 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 77.896 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 78.262 ms

Loss rate: 0.00%

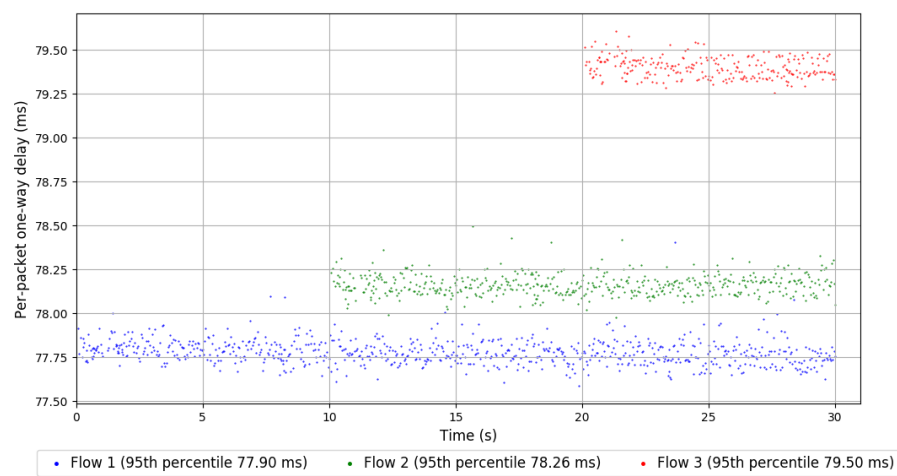
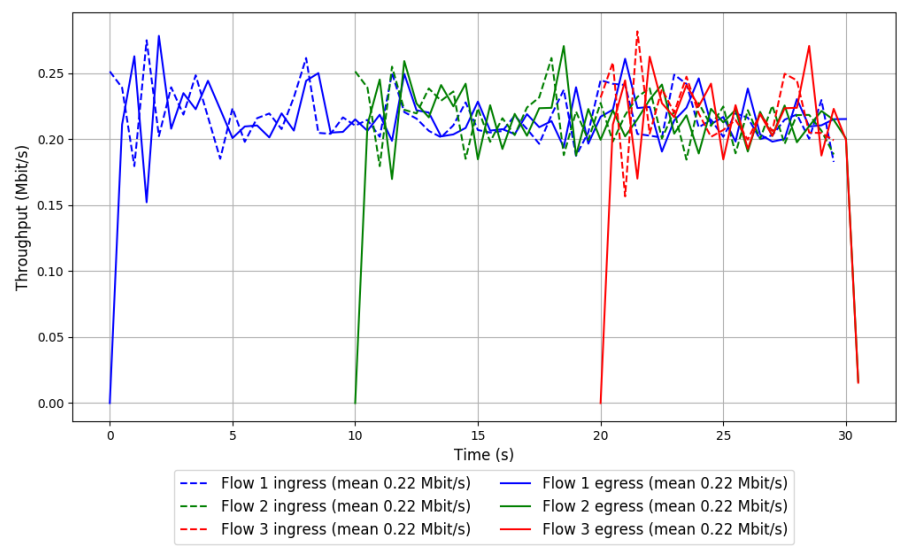
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.498 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

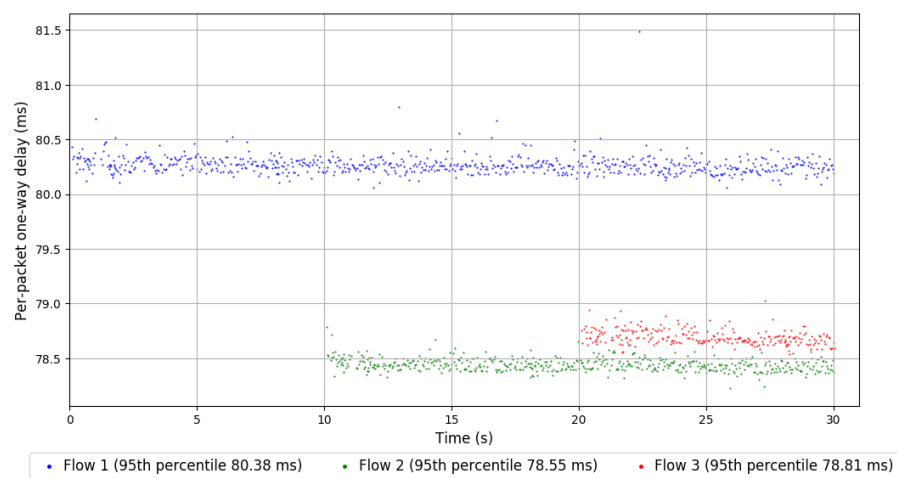
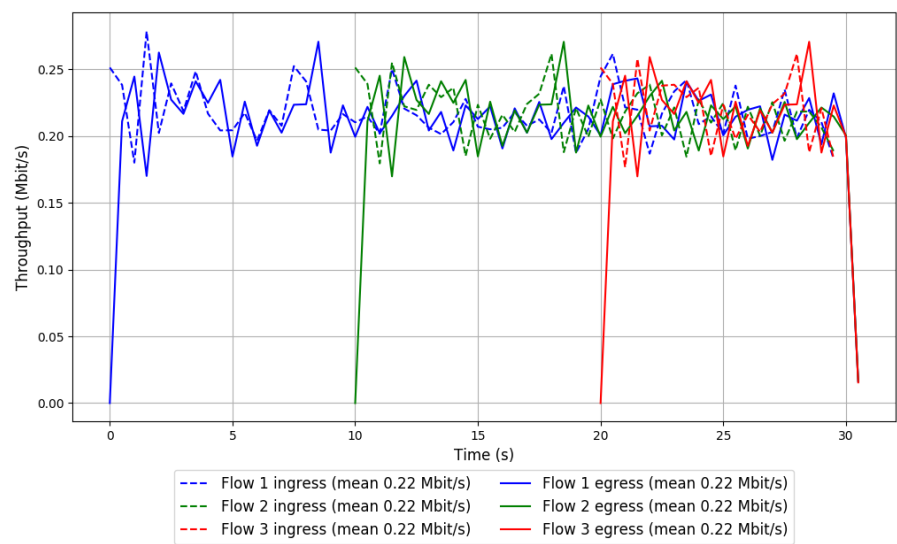


Run 9: Statistics of SReAM

Start at: 2018-05-30 18:38:10
End at: 2018-05-30 18:38:40
Local clock offset: -3.915 ms
Remote clock offset: 10.41 ms

Below is generated by plot.py at 2018-05-30 19:25:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 80.344 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.383 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.546 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.814 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

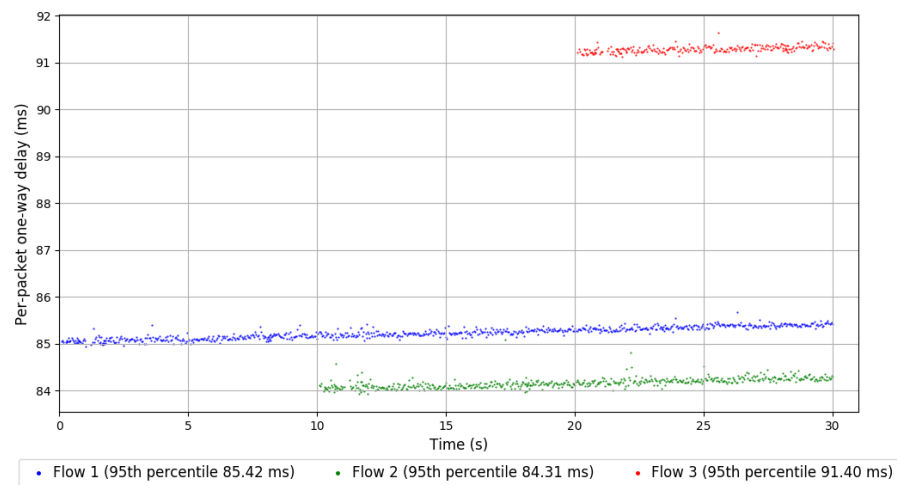
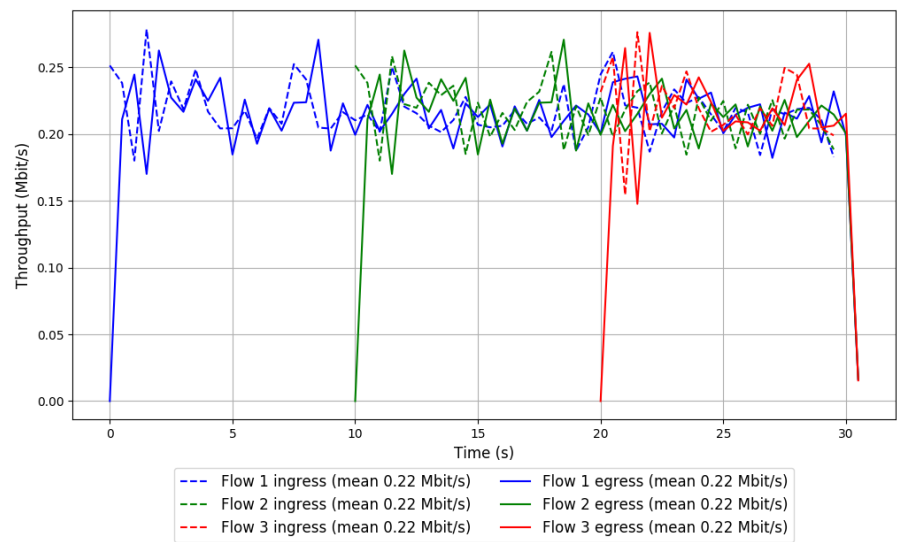


Run 10: Statistics of SReAM

Start at: 2018-05-30 18:58:15
End at: 2018-05-30 18:58:45
Local clock offset: -4.551 ms
Remote clock offset: 13.331 ms

Below is generated by plot.py at 2018-05-30 19:25:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 91.324 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.417 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.311 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 91.402 ms
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-05-30 15:52:11

End at: 2018-05-30 15:52:41

Local clock offset: -2.548 ms

Remote clock offset: 4.95 ms

Below is generated by plot.py at 2018-05-30 19:25:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.69 Mbit/s

95th percentile per-packet one-way delay: 87.972 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 88.289 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 86.613 ms

Loss rate: 0.00%

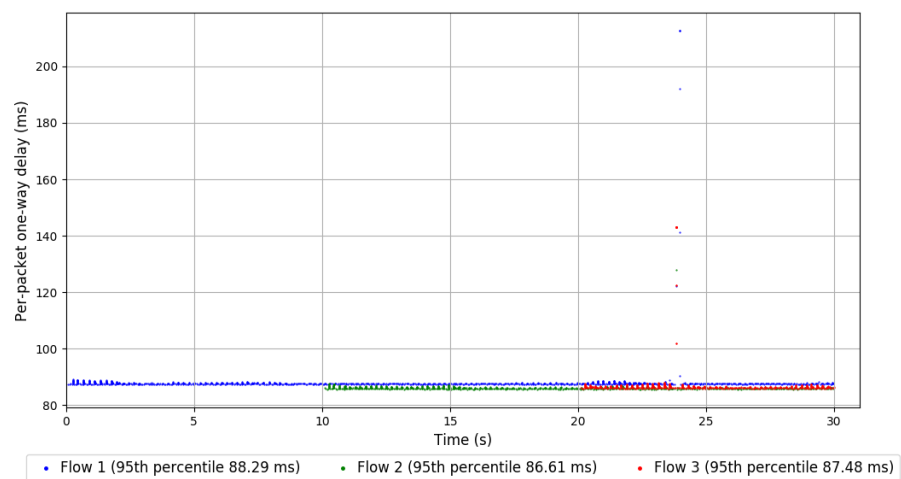
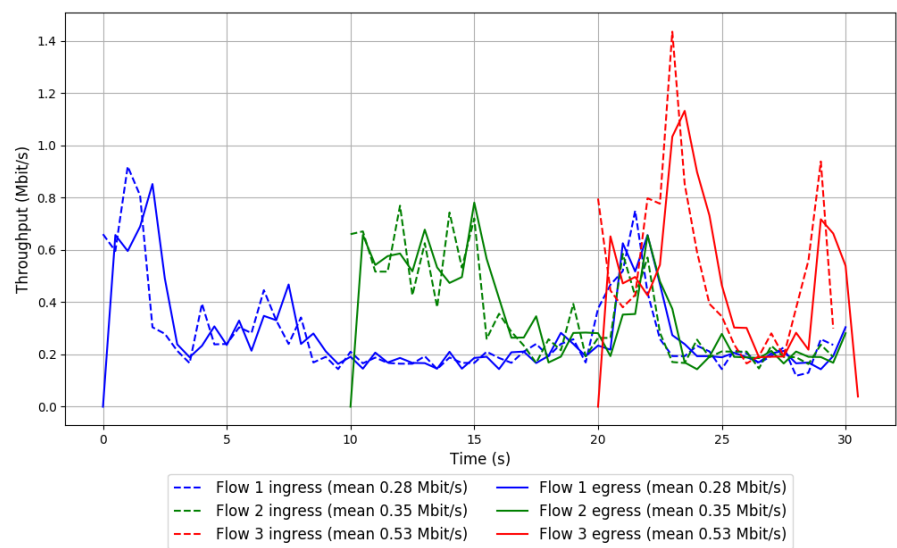
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 87.477 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

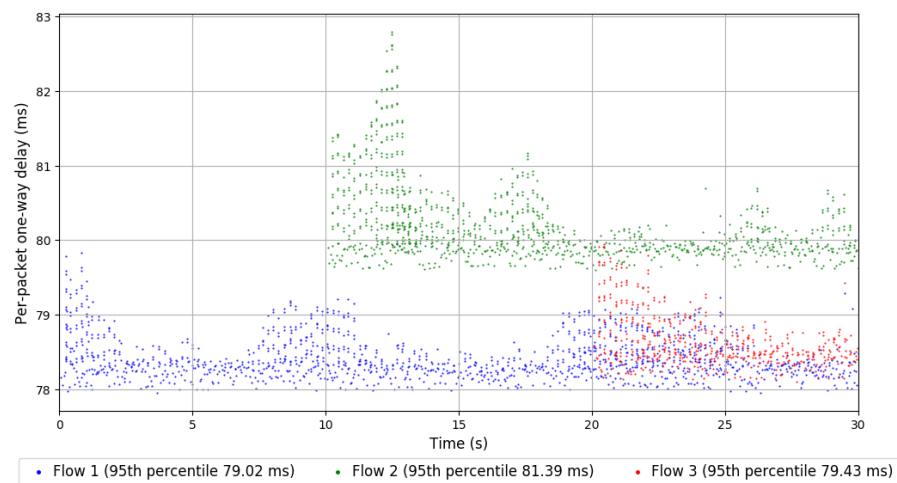
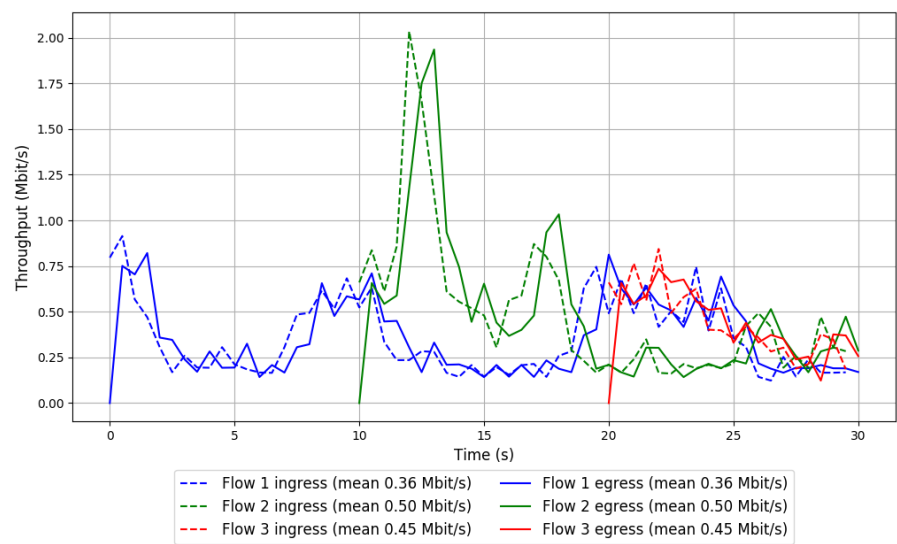


Run 2: Statistics of Sprout

Start at: 2018-05-30 16:12:17
End at: 2018-05-30 16:12:47
Local clock offset: -2.007 ms
Remote clock offset: 3.991 ms

Below is generated by plot.py at 2018-05-30 19:25:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.84 Mbit/s
95th percentile per-packet one-way delay: 80.716 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 79.016 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 81.393 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 79.427 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

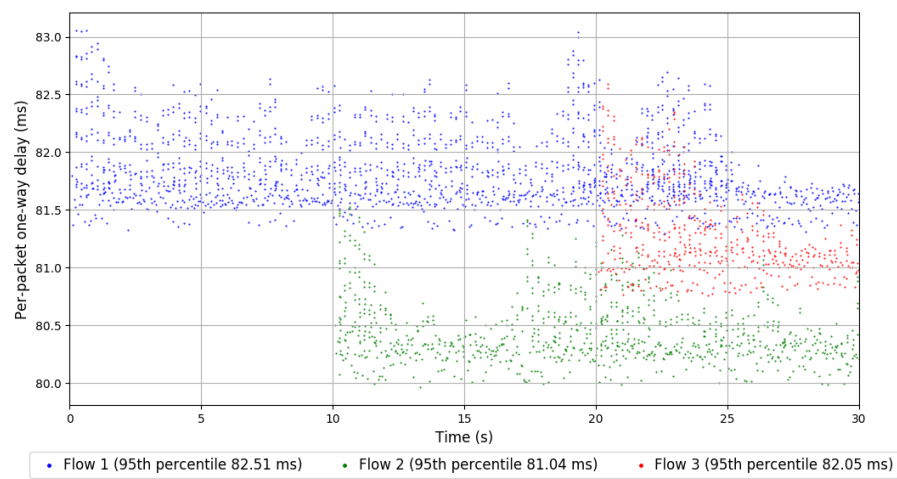
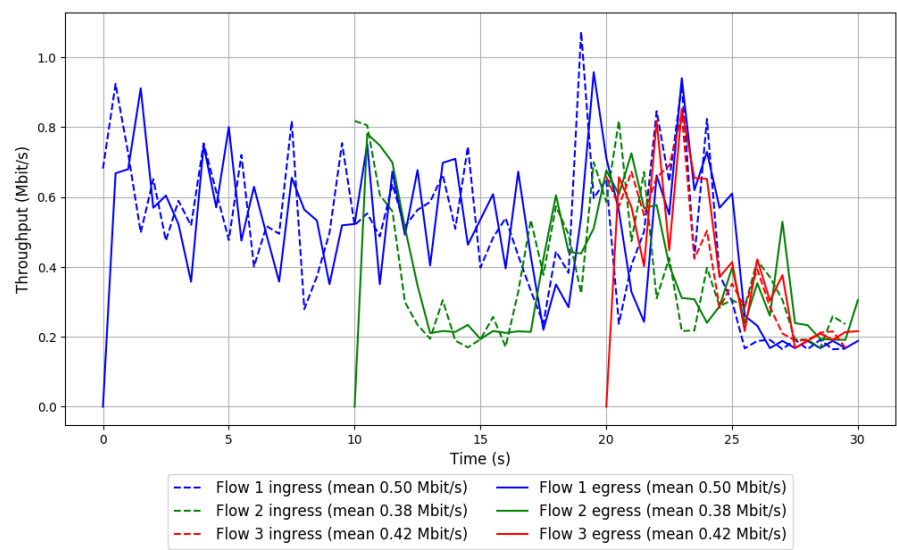


Run 3: Statistics of Sprout

Start at: 2018-05-30 16:32:22
End at: 2018-05-30 16:32:52
Local clock offset: -2.425 ms
Remote clock offset: 4.682 ms

```
# Below is generated by plot.py at 2018-05-30 19:25:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.90 Mbit/s
95th percentile per-packet one-way delay: 82.356 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 82.506 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 81.039 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 82.051 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

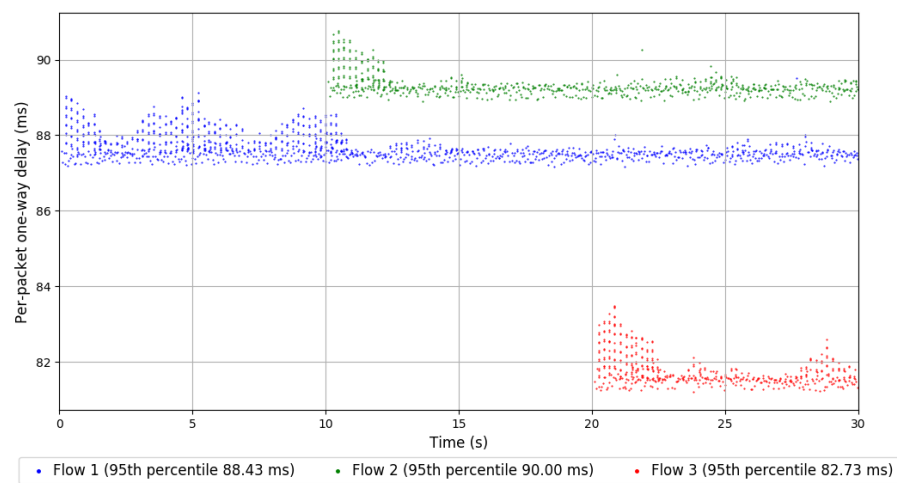
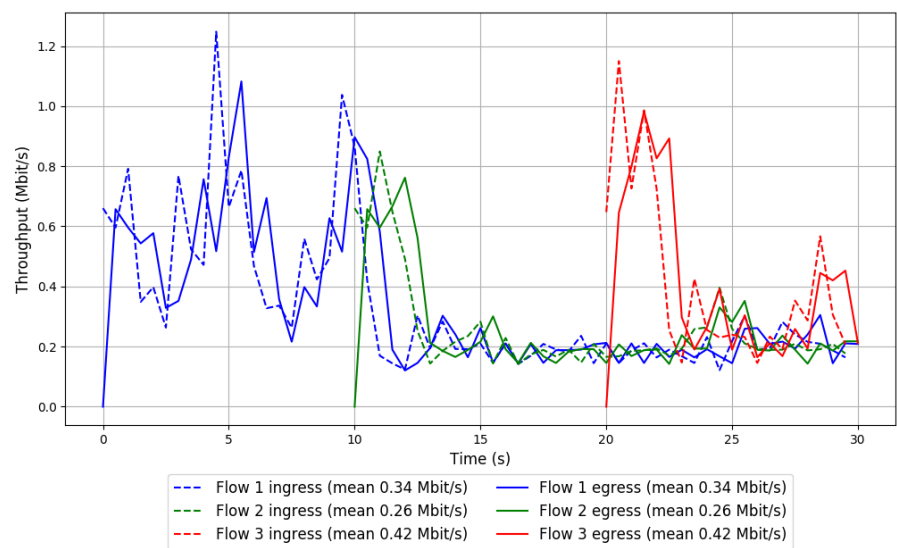


Run 4: Statistics of Sprout

Start at: 2018-05-30 16:52:43
End at: 2018-05-30 16:53:13
Local clock offset: -1.147 ms
Remote clock offset: 7.766 ms

```
# Below is generated by plot.py at 2018-05-30 19:25:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 89.449 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 88.433 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 90.002 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 82.730 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

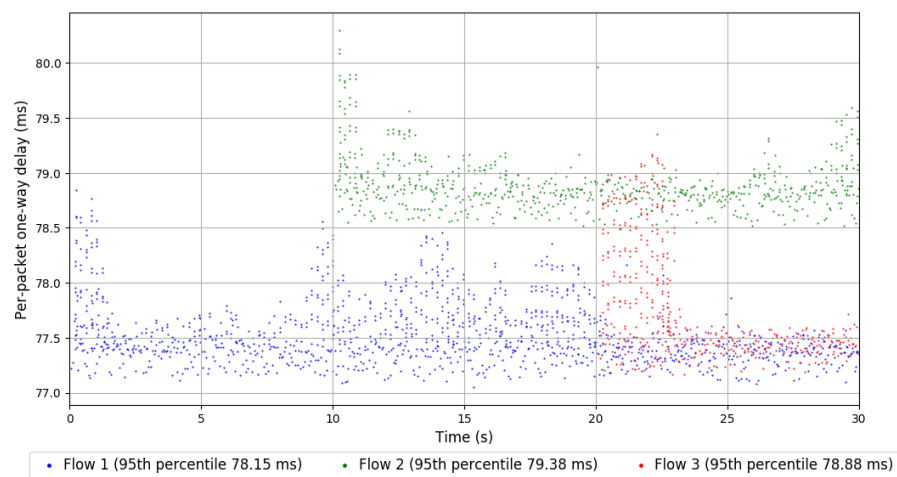
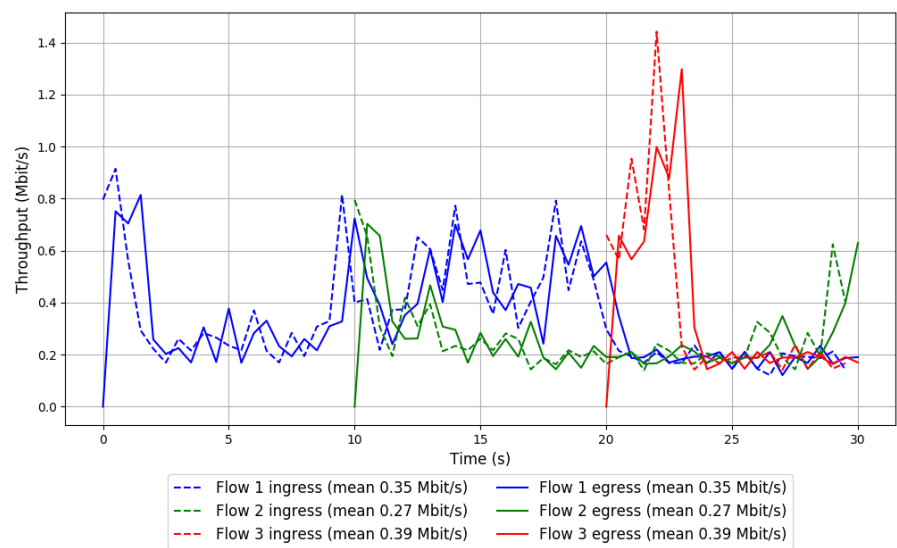


Run 5: Statistics of Sprout

Start at: 2018-05-30 17:12:57
End at: 2018-05-30 17:13:27
Local clock offset: -1.732 ms
Remote clock offset: 3.813 ms

Below is generated by plot.py at 2018-05-30 19:25:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 79.066 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 78.146 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 79.384 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 78.880 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

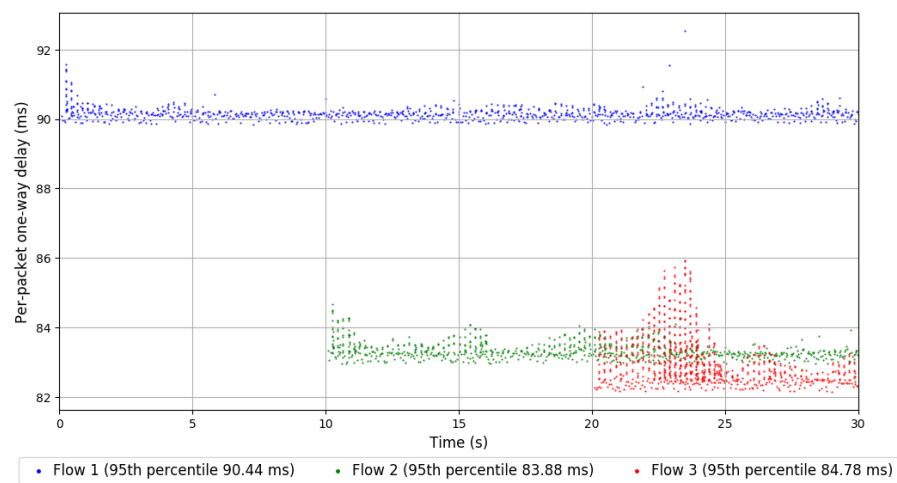
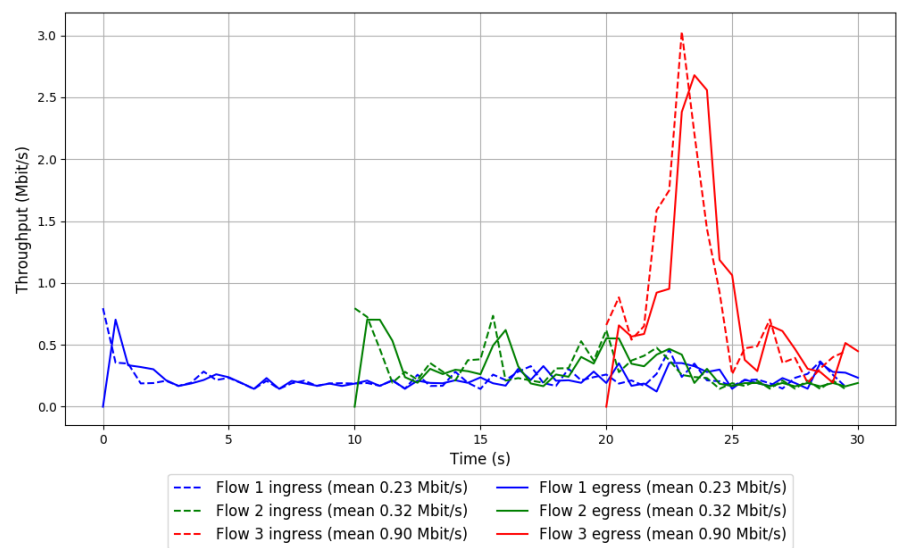


Run 6: Statistics of Sprout

Start at: 2018-05-30 17:32:57
End at: 2018-05-30 17:33:27
Local clock offset: -2.437 ms
Remote clock offset: 8.604 ms

```
# Below is generated by plot.py at 2018-05-30 19:25:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.74 Mbit/s
95th percentile per-packet one-way delay: 90.318 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 90.439 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 83.879 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.90 Mbit/s
95th percentile per-packet one-way delay: 84.785 ms
Loss rate: 0.00%
```

Run 6: Report of Sprout — Data Link

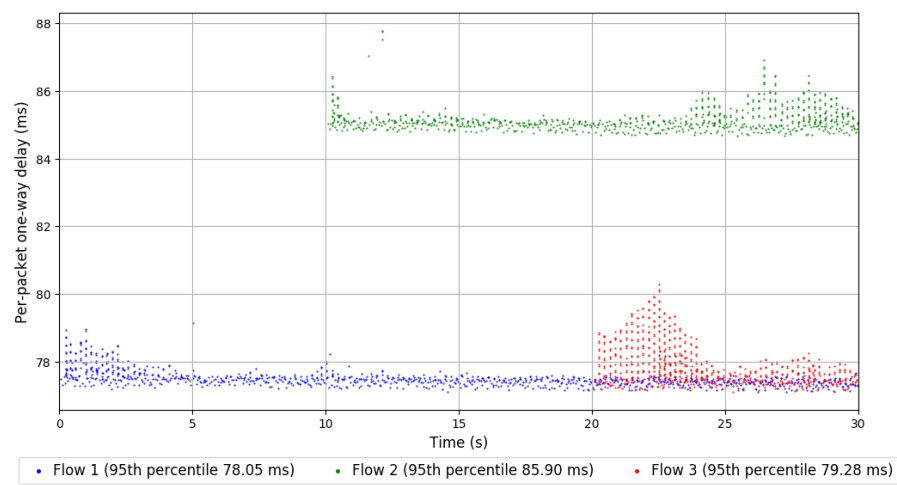
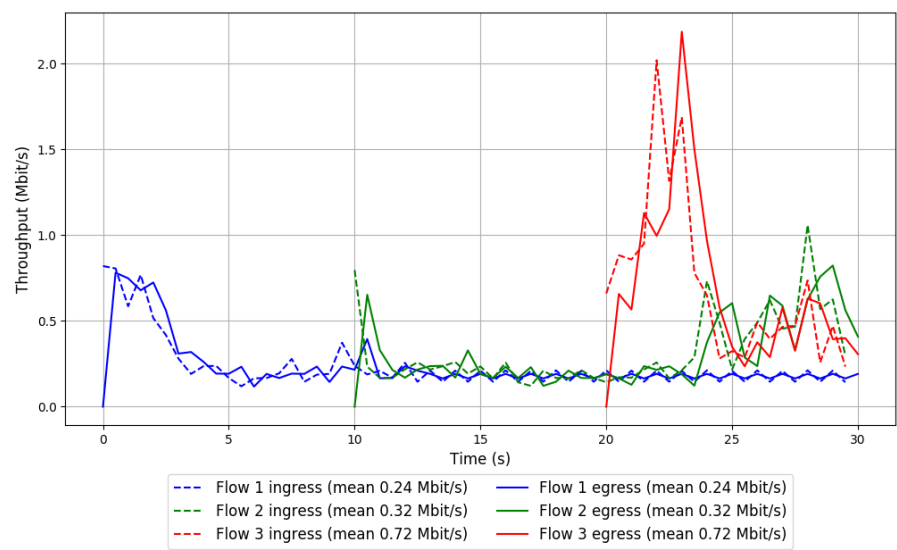


Run 7: Statistics of Sprout

Start at: 2018-05-30 17:52:58
End at: 2018-05-30 17:53:28
Local clock offset: -2.179 ms
Remote clock offset: 6.066 ms

```
# Below is generated by plot.py at 2018-05-30 19:25:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.68 Mbit/s
95th percentile per-packet one-way delay: 85.489 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 78.048 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 85.904 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.72 Mbit/s
95th percentile per-packet one-way delay: 79.281 ms
Loss rate: 0.00%
```

Run 7: Report of Sprout — Data Link

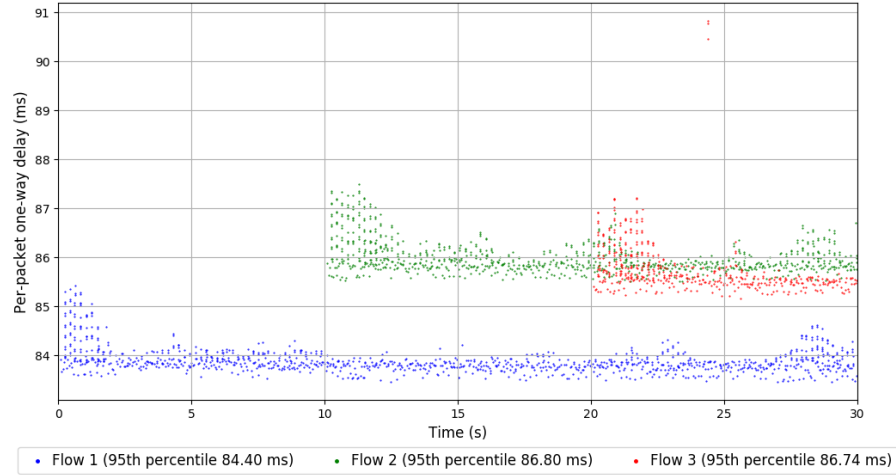
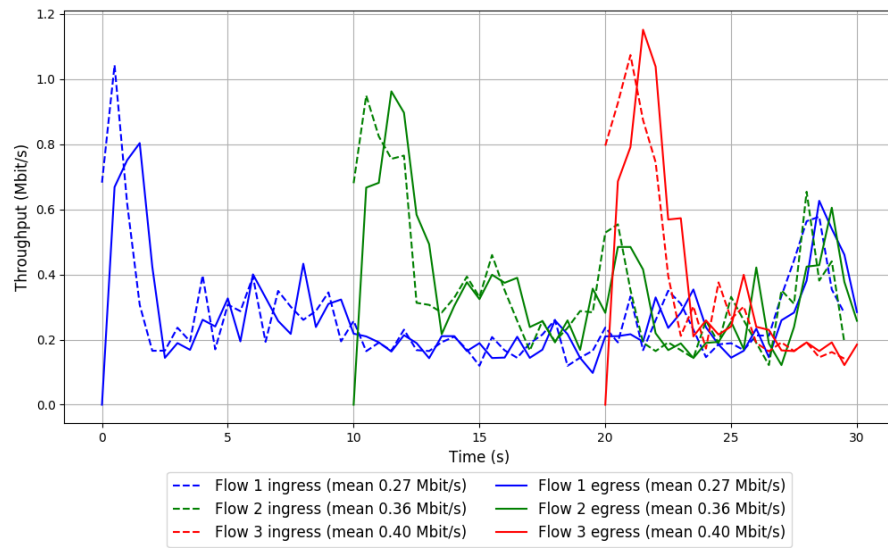


Run 8: Statistics of Sprout

Start at: 2018-05-30 18:13:01
End at: 2018-05-30 18:13:31
Local clock offset: -4.086 ms
Remote clock offset: 13.713 ms

Below is generated by plot.py at 2018-05-30 19:25:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 86.512 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 84.399 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 86.798 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 86.743 ms
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

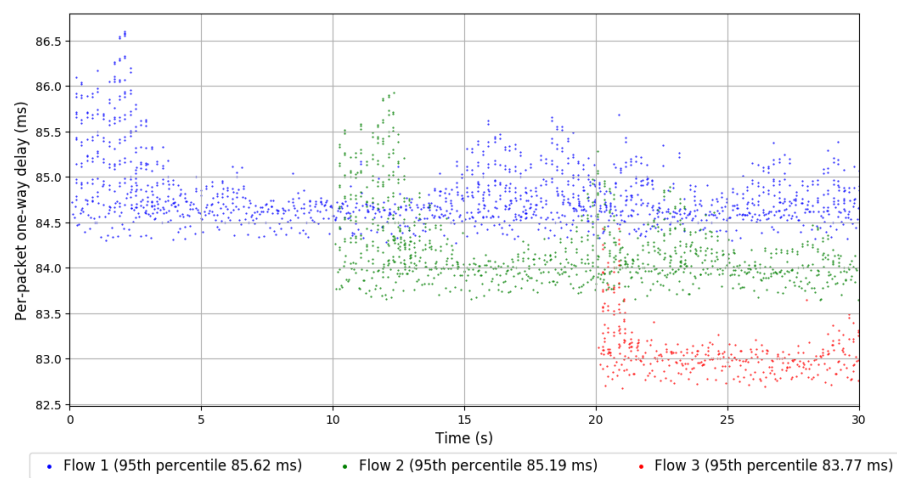
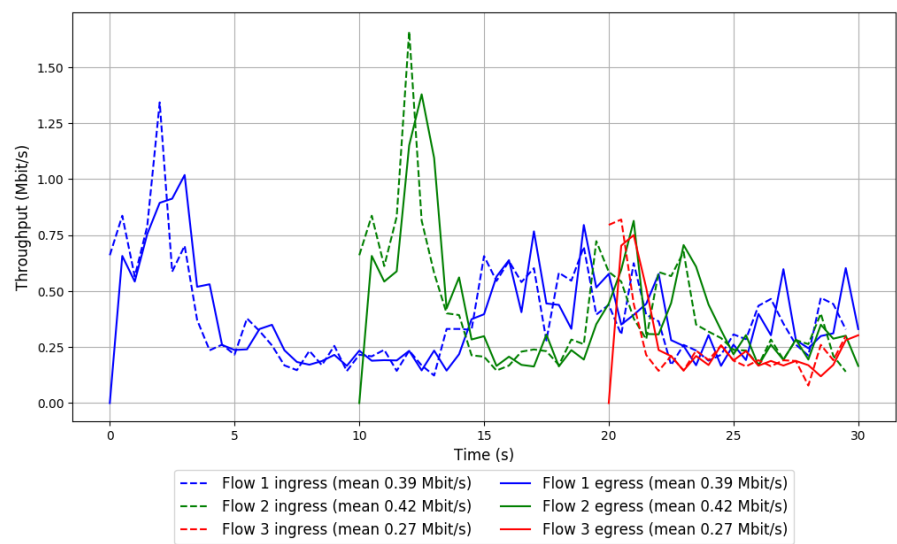


Run 9: Statistics of Sprout

Start at: 2018-05-30 18:33:07
End at: 2018-05-30 18:33:37
Local clock offset: -3.649 ms
Remote clock offset: 14.174 ms

Below is generated by plot.py at 2018-05-30 19:25:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.76 Mbit/s
95th percentile per-packet one-way delay: 85.398 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 85.620 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 85.185 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 83.770 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

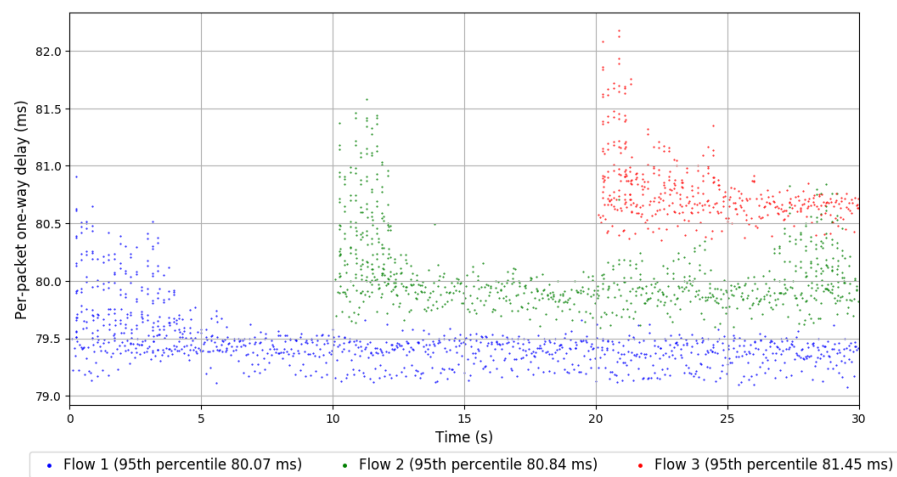
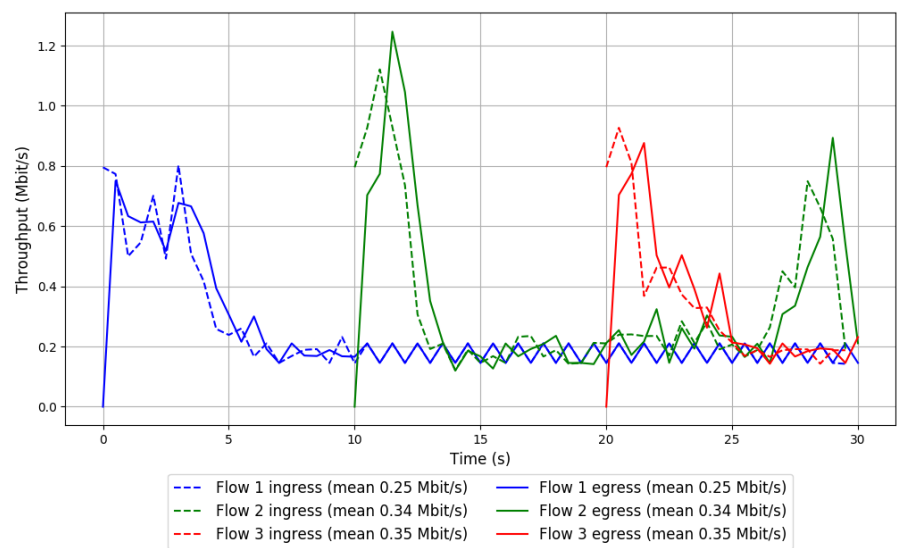


Run 10: Statistics of Sprout

Start at: 2018-05-30 18:53:13
End at: 2018-05-30 18:53:43
Local clock offset: -3.732 ms
Remote clock offset: 11.324 ms

Below is generated by plot.py at 2018-05-30 19:25:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 80.935 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 80.071 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 80.842 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 81.455 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-05-30 16:06:05

End at: 2018-05-30 16:06:35

Local clock offset: -1.608 ms

Remote clock offset: 9.146 ms

Below is generated by plot.py at 2018-05-30 19:26:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.71 Mbit/s

95th percentile per-packet one-way delay: 114.660 ms

Loss rate: 5.37%

-- Flow 1:

Average throughput: 51.30 Mbit/s

95th percentile per-packet one-way delay: 114.437 ms

Loss rate: 4.01%

-- Flow 2:

Average throughput: 32.85 Mbit/s

95th percentile per-packet one-way delay: 114.929 ms

Loss rate: 7.40%

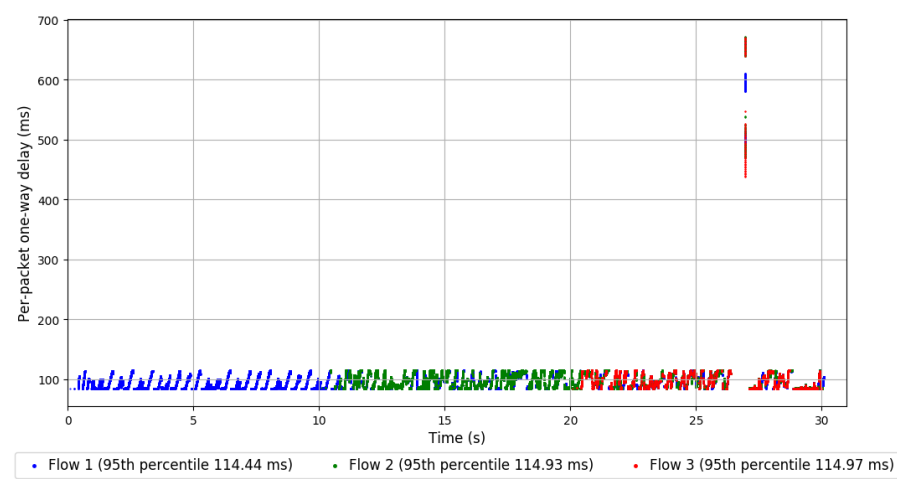
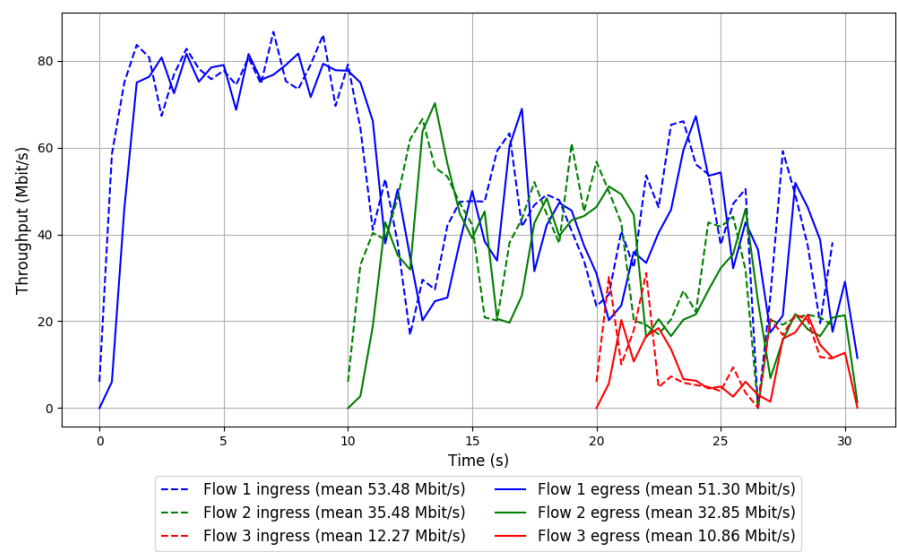
-- Flow 3:

Average throughput: 10.86 Mbit/s

95th percentile per-packet one-way delay: 114.970 ms

Loss rate: 11.49%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-05-30 16:26:10

End at: 2018-05-30 16:26:40

Local clock offset: -3.112 ms

Remote clock offset: 4.675 ms

Below is generated by plot.py at 2018-05-30 19:26:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.93 Mbit/s

95th percentile per-packet one-way delay: 109.638 ms

Loss rate: 5.32%

-- Flow 1:

Average throughput: 55.75 Mbit/s

95th percentile per-packet one-way delay: 109.515 ms

Loss rate: 3.69%

-- Flow 2:

Average throughput: 28.50 Mbit/s

95th percentile per-packet one-way delay: 109.675 ms

Loss rate: 8.57%

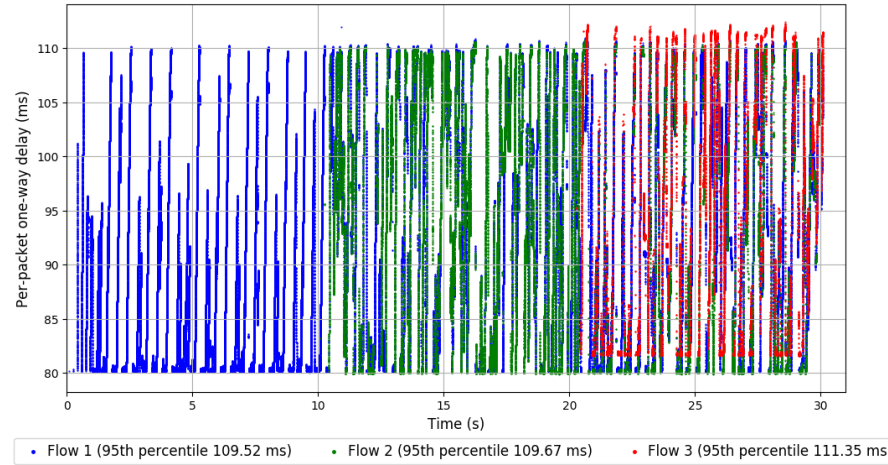
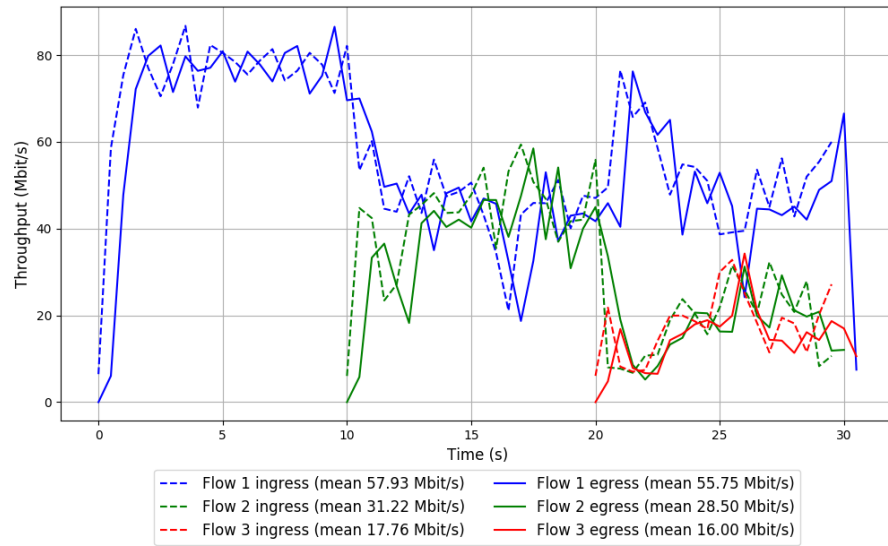
-- Flow 3:

Average throughput: 16.00 Mbit/s

95th percentile per-packet one-way delay: 111.348 ms

Loss rate: 9.95%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-05-30 16:46:26

End at: 2018-05-30 16:46:56

Local clock offset: -2.009 ms

Remote clock offset: 4.728 ms

Below is generated by plot.py at 2018-05-30 19:26:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.43 Mbit/s

95th percentile per-packet one-way delay: 110.590 ms

Loss rate: 6.87%

-- Flow 1:

Average throughput: 46.62 Mbit/s

95th percentile per-packet one-way delay: 110.050 ms

Loss rate: 5.28%

-- Flow 2:

Average throughput: 40.35 Mbit/s

95th percentile per-packet one-way delay: 110.788 ms

Loss rate: 8.79%

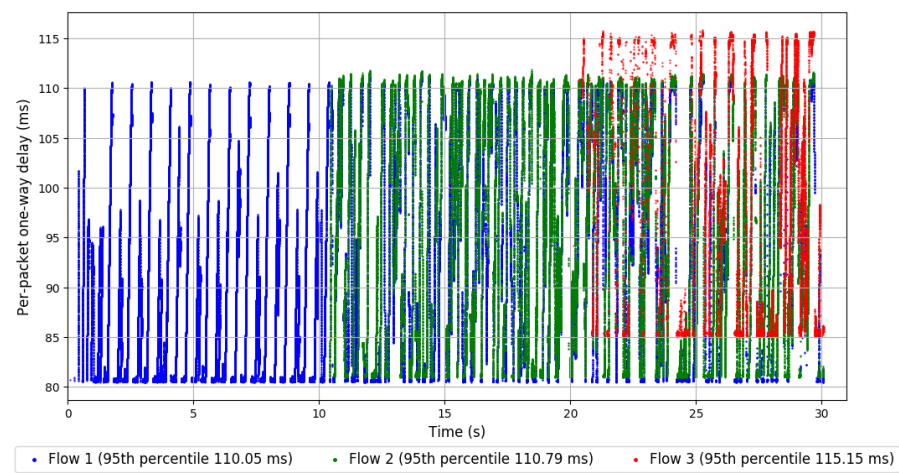
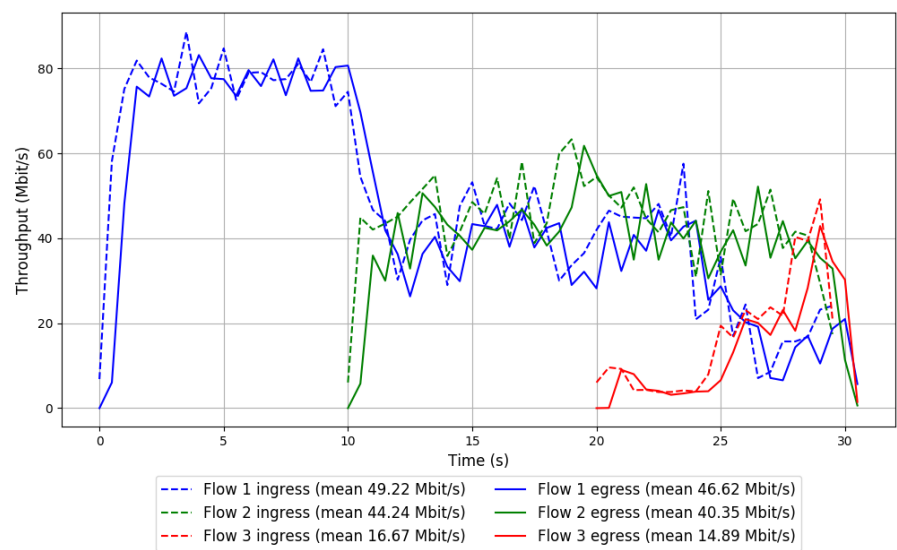
-- Flow 3:

Average throughput: 14.89 Mbit/s

95th percentile per-packet one-way delay: 115.148 ms

Loss rate: 10.73%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-05-30 17:06:45

End at: 2018-05-30 17:07:15

Local clock offset: -1.839 ms

Remote clock offset: 4.738 ms

Below is generated by plot.py at 2018-05-30 19:26:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.06 Mbit/s

95th percentile per-packet one-way delay: 108.942 ms

Loss rate: 6.14%

-- Flow 1:

Average throughput: 50.88 Mbit/s

95th percentile per-packet one-way delay: 108.849 ms

Loss rate: 4.34%

-- Flow 2:

Average throughput: 24.75 Mbit/s

95th percentile per-packet one-way delay: 109.129 ms

Loss rate: 9.72%

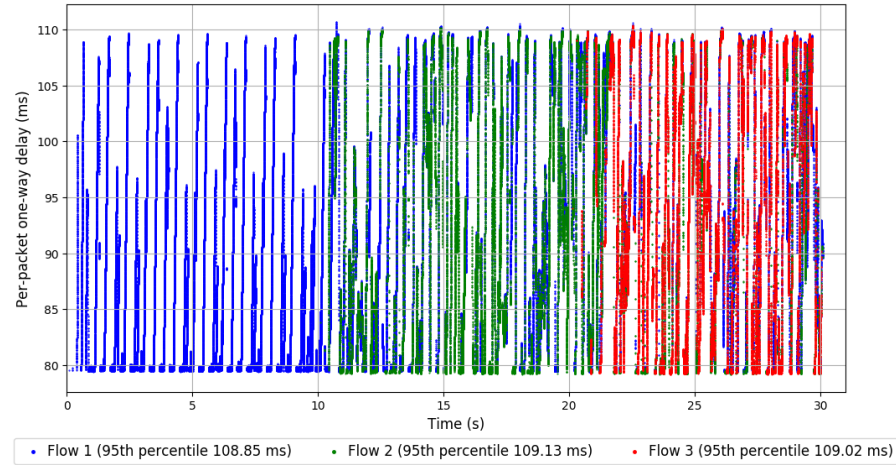
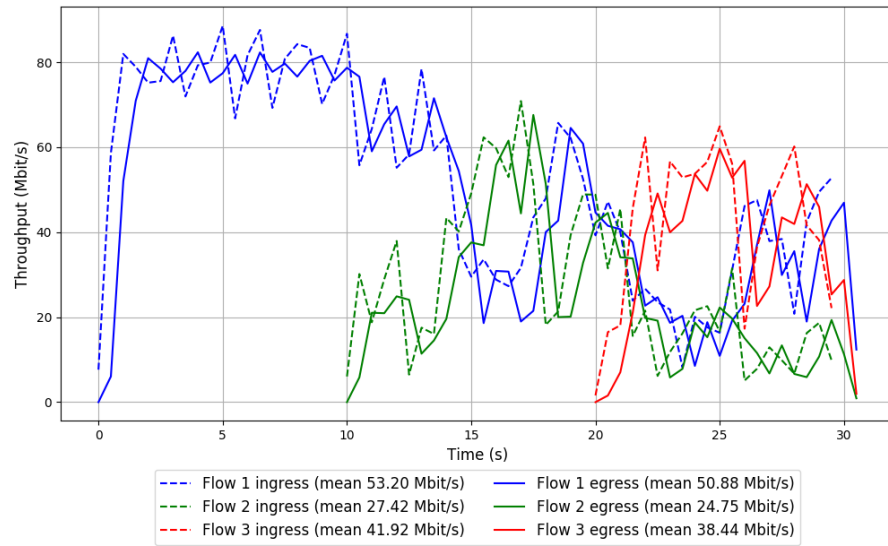
-- Flow 3:

Average throughput: 38.44 Mbit/s

95th percentile per-packet one-way delay: 109.022 ms

Loss rate: 8.32%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-05-30 17:26:45

End at: 2018-05-30 17:27:15

Local clock offset: -2.315 ms

Remote clock offset: 8.599 ms

Below is generated by plot.py at 2018-05-30 19:26:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.07 Mbit/s

95th percentile per-packet one-way delay: 113.281 ms

Loss rate: 6.42%

-- Flow 1:

Average throughput: 49.13 Mbit/s

95th percentile per-packet one-way delay: 111.976 ms

Loss rate: 4.67%

-- Flow 2:

Average throughput: 27.69 Mbit/s

95th percentile per-packet one-way delay: 113.963 ms

Loss rate: 9.84%

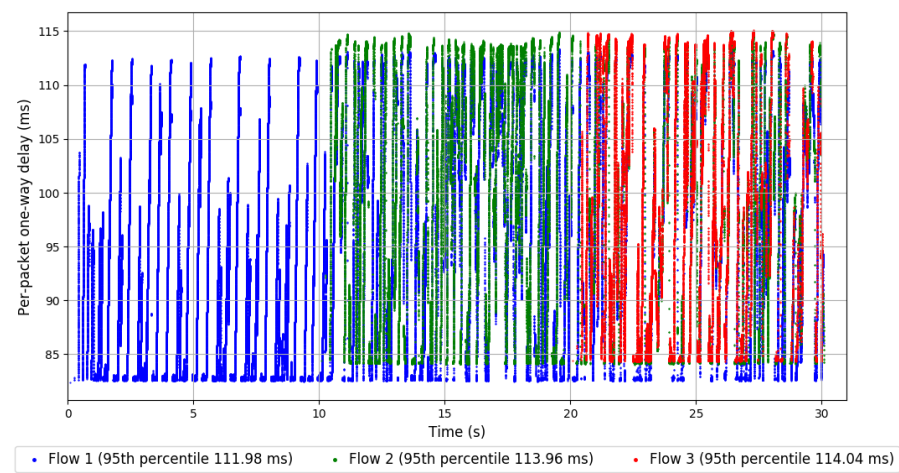
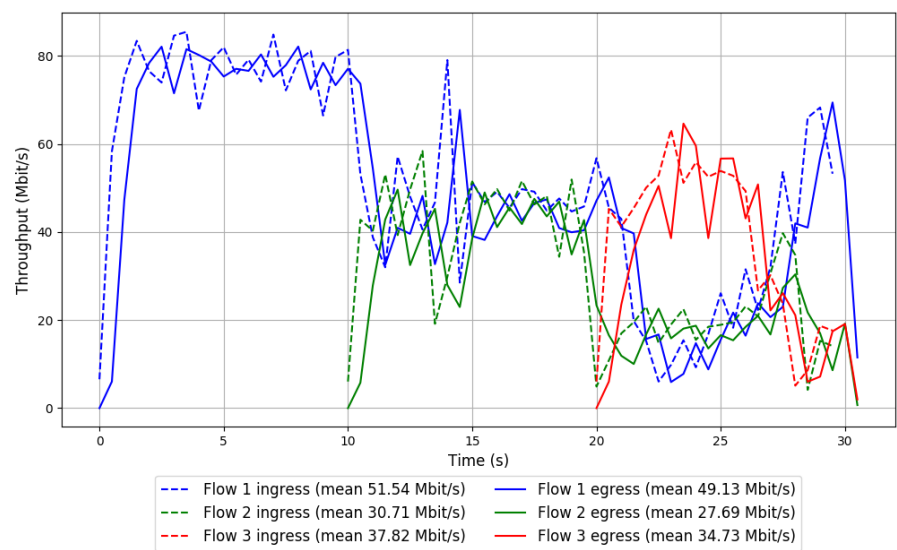
-- Flow 3:

Average throughput: 34.73 Mbit/s

95th percentile per-packet one-way delay: 114.040 ms

Loss rate: 8.06%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-05-30 17:46:48

End at: 2018-05-30 17:47:18

Local clock offset: -3.046 ms

Remote clock offset: 8.375 ms

Below is generated by plot.py at 2018-05-30 19:26:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.01 Mbit/s

95th percentile per-packet one-way delay: 113.716 ms

Loss rate: 6.00%

-- Flow 1:

Average throughput: 50.90 Mbit/s

95th percentile per-packet one-way delay: 114.206 ms

Loss rate: 4.24%

-- Flow 2:

Average throughput: 28.44 Mbit/s

95th percentile per-packet one-way delay: 113.048 ms

Loss rate: 8.65%

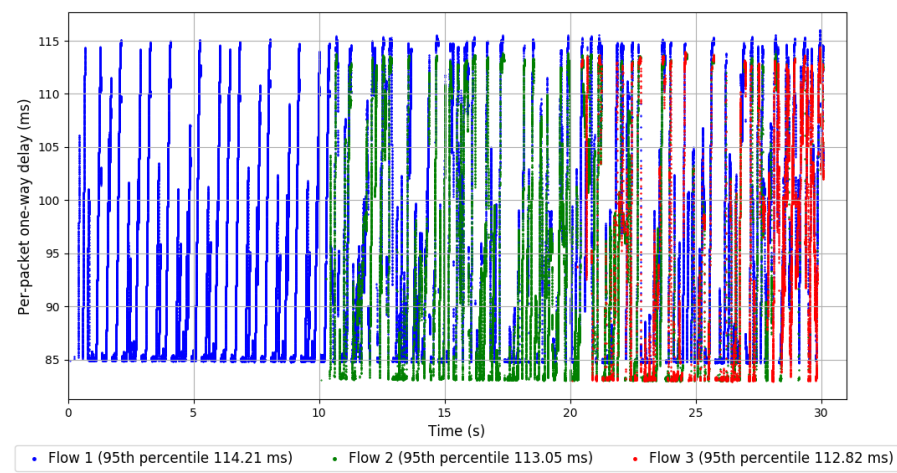
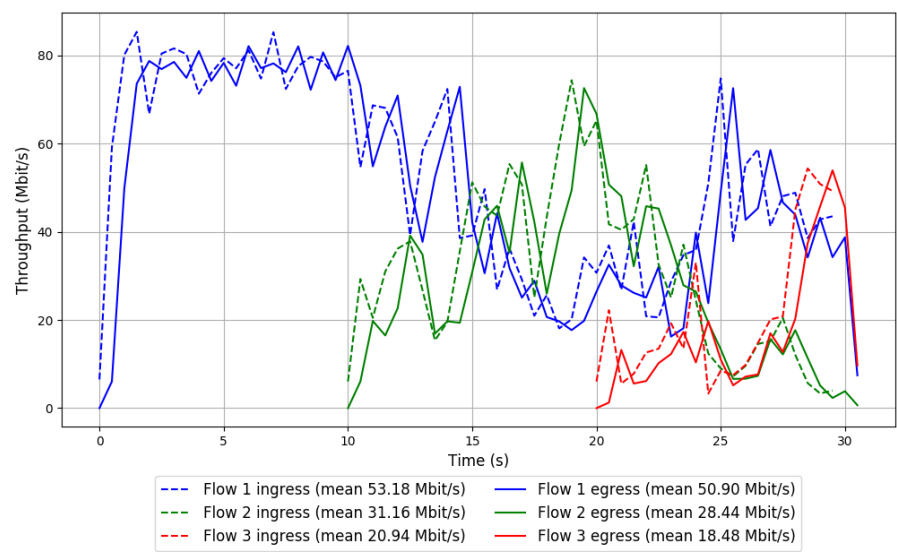
-- Flow 3:

Average throughput: 18.48 Mbit/s

95th percentile per-packet one-way delay: 112.821 ms

Loss rate: 11.59%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-05-30 18:06:48

End at: 2018-05-30 18:07:19

Local clock offset: -3.832 ms

Remote clock offset: 12.39 ms

Below is generated by plot.py at 2018-05-30 19:27:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.65 Mbit/s

95th percentile per-packet one-way delay: 112.768 ms

Loss rate: 5.78%

-- Flow 1:

Average throughput: 52.60 Mbit/s

95th percentile per-packet one-way delay: 112.575 ms

Loss rate: 3.57%

-- Flow 2:

Average throughput: 30.84 Mbit/s

95th percentile per-packet one-way delay: 113.030 ms

Loss rate: 9.25%

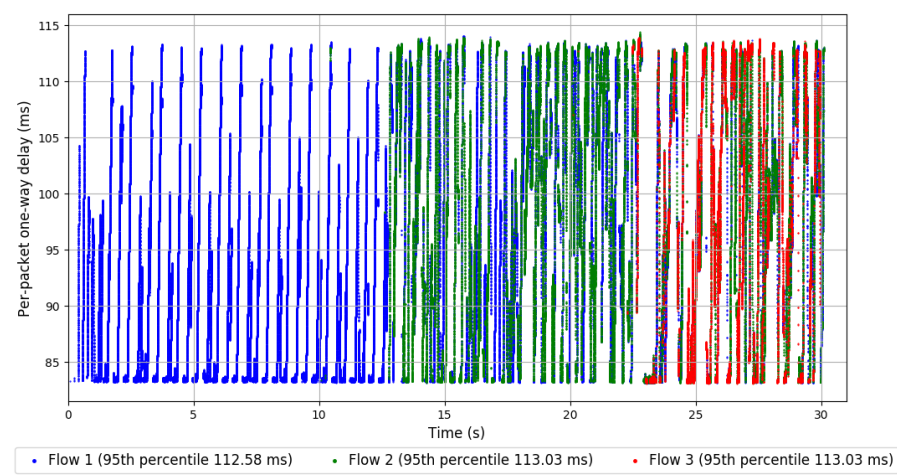
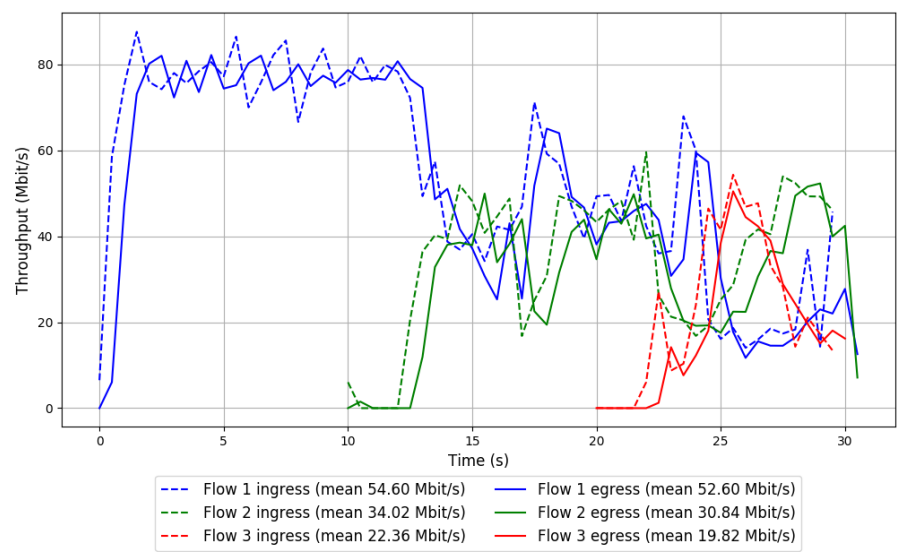
-- Flow 3:

Average throughput: 19.82 Mbit/s

95th percentile per-packet one-way delay: 113.026 ms

Loss rate: 11.49%

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

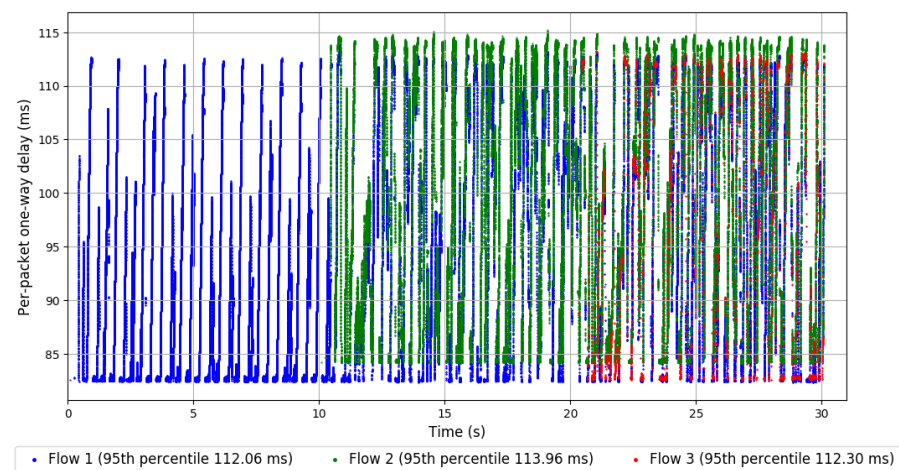
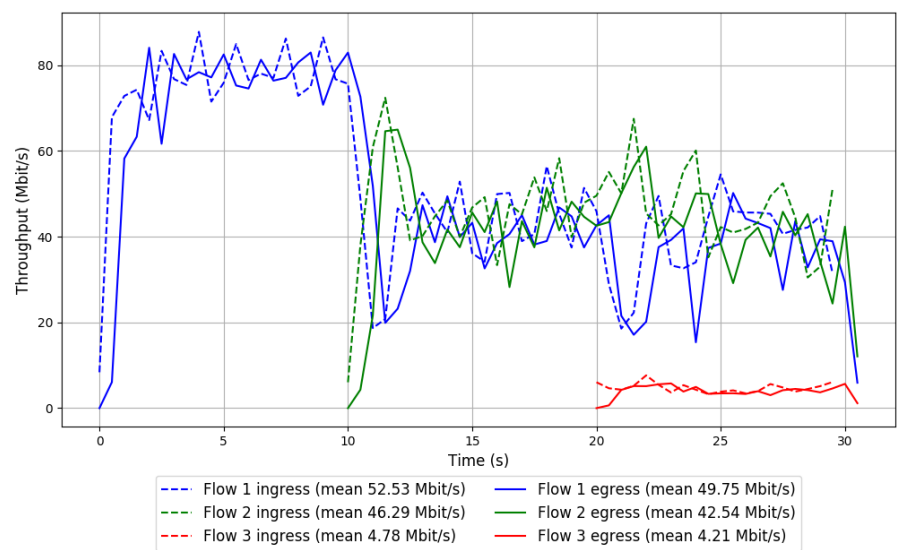


Run 8: Statistics of TaoVA-100x

Start at: 2018-05-30 18:26:55
End at: 2018-05-30 18:27:25
Local clock offset: -2.83 ms
Remote clock offset: 14.748 ms

Below is generated by plot.py at 2018-05-30 19:27:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.49 Mbit/s
95th percentile per-packet one-way delay: 113.417 ms
Loss rate: 6.34%
-- Flow 1:
Average throughput: 49.75 Mbit/s
95th percentile per-packet one-way delay: 112.057 ms
Loss rate: 5.21%
-- Flow 2:
Average throughput: 42.54 Mbit/s
95th percentile per-packet one-way delay: 113.956 ms
Loss rate: 7.98%
-- Flow 3:
Average throughput: 4.21 Mbit/s
95th percentile per-packet one-way delay: 112.300 ms
Loss rate: 11.94%

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

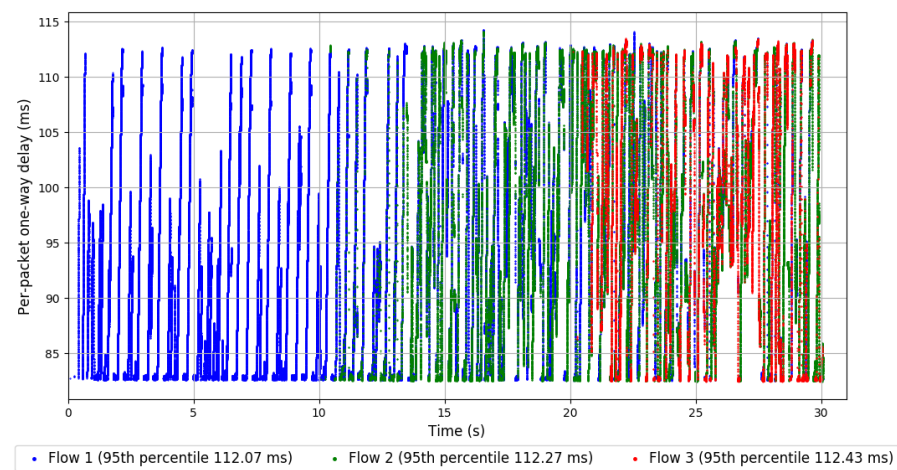
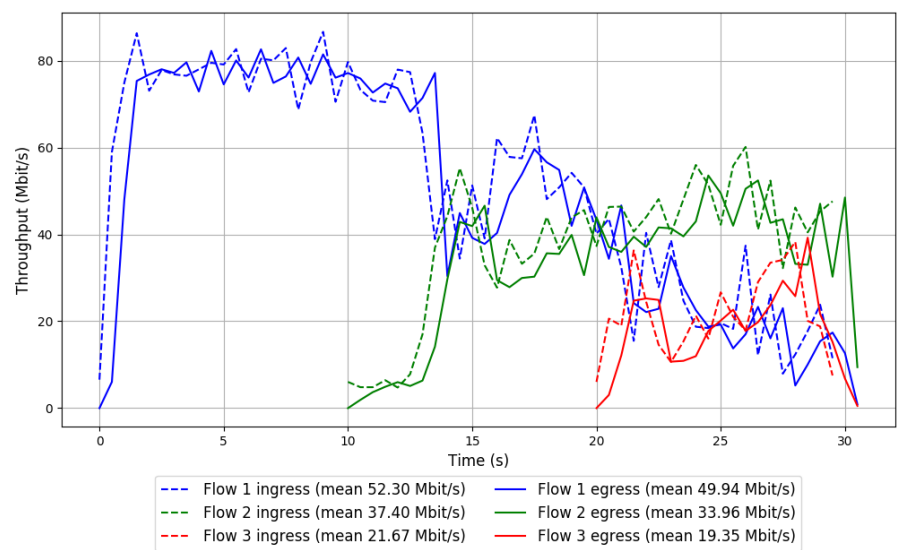


Run 9: Statistics of TaoVA-100x

Start at: 2018-05-30 18:47:01
End at: 2018-05-30 18:47:31
Local clock offset: -3.541 ms
Remote clock offset: 15.772 ms

Below is generated by plot.py at 2018-05-30 19:28:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.96 Mbit/s
95th percentile per-packet one-way delay: 112.175 ms
Loss rate: 6.45%
-- Flow 1:
Average throughput: 49.94 Mbit/s
95th percentile per-packet one-way delay: 112.071 ms
Loss rate: 4.52%
-- Flow 2:
Average throughput: 33.96 Mbit/s
95th percentile per-packet one-way delay: 112.266 ms
Loss rate: 9.19%
-- Flow 3:
Average throughput: 19.35 Mbit/s
95th percentile per-packet one-way delay: 112.432 ms
Loss rate: 10.95%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-05-30 19:07:05

End at: 2018-05-30 19:07:35

Local clock offset: -3.938 ms

Remote clock offset: 9.489 ms

Below is generated by plot.py at 2018-05-30 19:28:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.95 Mbit/s

95th percentile per-packet one-way delay: 113.063 ms

Loss rate: 5.22%

-- Flow 1:

Average throughput: 48.89 Mbit/s

95th percentile per-packet one-way delay: 112.829 ms

Loss rate: 4.05%

-- Flow 2:

Average throughput: 24.50 Mbit/s

95th percentile per-packet one-way delay: 113.359 ms

Loss rate: 9.45%

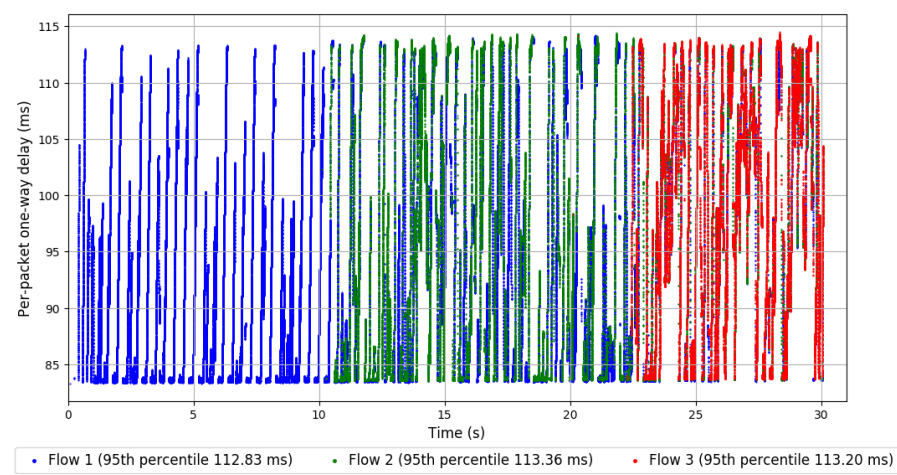
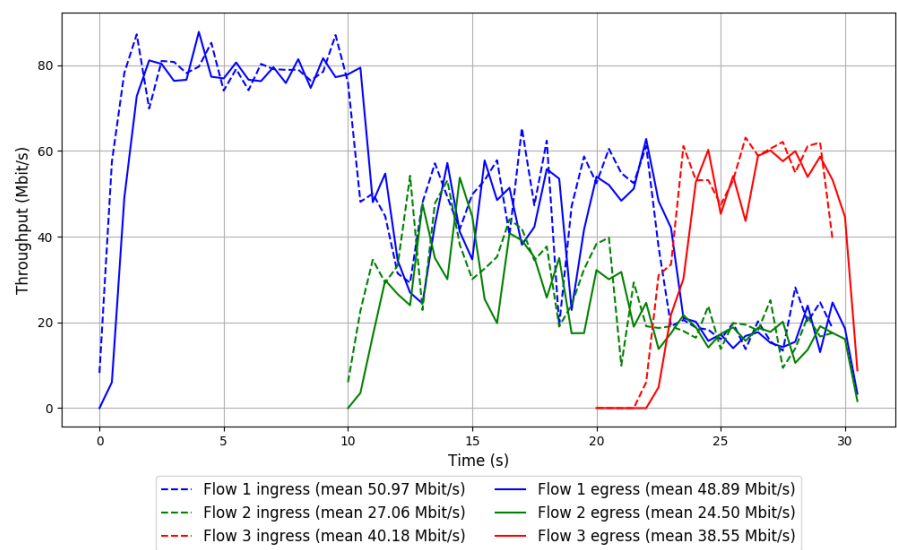
-- Flow 3:

Average throughput: 38.55 Mbit/s

95th percentile per-packet one-way delay: 113.197 ms

Loss rate: 3.99%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-05-30 15:59:40

End at: 2018-05-30 16:00:10

Local clock offset: -0.901 ms

Remote clock offset: 4.375 ms

Below is generated by plot.py at 2018-05-30 19:28:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.42 Mbit/s

95th percentile per-packet one-way delay: 89.736 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 21.51 Mbit/s

95th percentile per-packet one-way delay: 91.362 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 18.60 Mbit/s

95th percentile per-packet one-way delay: 92.730 ms

Loss rate: 1.38%

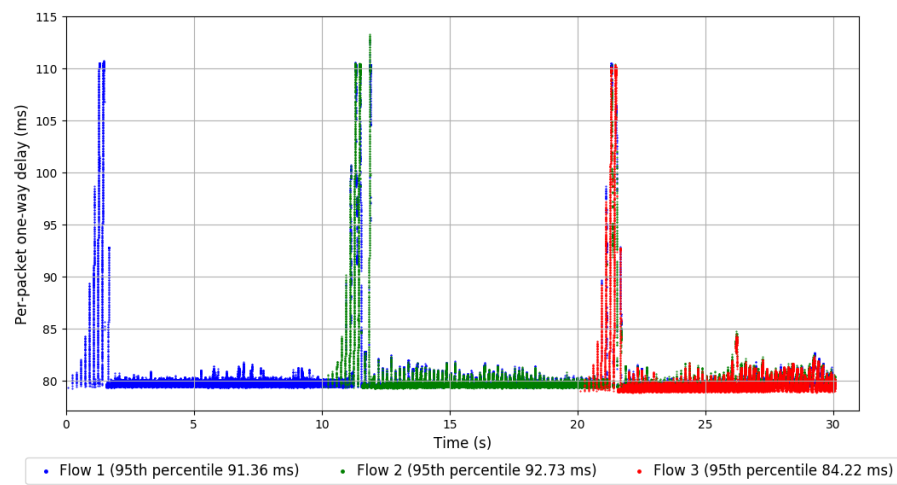
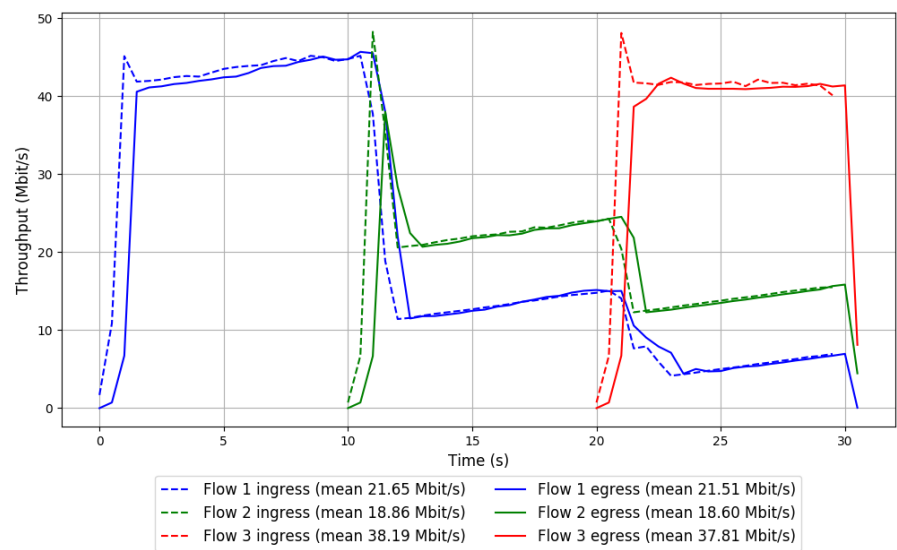
-- Flow 3:

Average throughput: 37.81 Mbit/s

95th percentile per-packet one-way delay: 84.220 ms

Loss rate: 0.99%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-05-30 16:19:48

End at: 2018-05-30 16:20:18

Local clock offset: -2.247 ms

Remote clock offset: 7.98 ms

Below is generated by plot.py at 2018-05-30 19:28:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.39 Mbit/s

95th percentile per-packet one-way delay: 95.649 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 29.61 Mbit/s

95th percentile per-packet one-way delay: 95.774 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 17.58 Mbit/s

95th percentile per-packet one-way delay: 101.896 ms

Loss rate: 1.37%

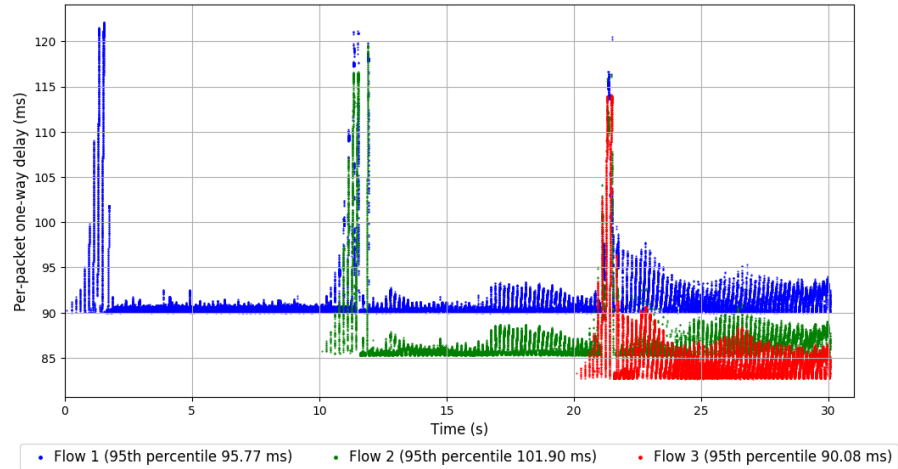
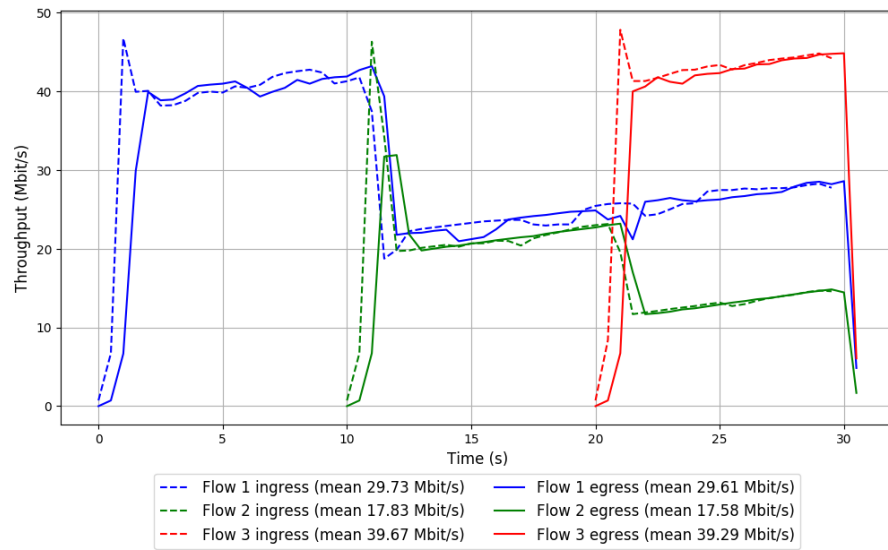
-- Flow 3:

Average throughput: 39.29 Mbit/s

95th percentile per-packet one-way delay: 90.079 ms

Loss rate: 0.92%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-05-30 16:40:03

End at: 2018-05-30 16:40:33

Local clock offset: -2.194 ms

Remote clock offset: 4.811 ms

Below is generated by plot.py at 2018-05-30 19:28:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.23 Mbit/s

95th percentile per-packet one-way delay: 90.295 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 22.33 Mbit/s

95th percentile per-packet one-way delay: 87.496 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 18.47 Mbit/s

95th percentile per-packet one-way delay: 96.824 ms

Loss rate: 1.14%

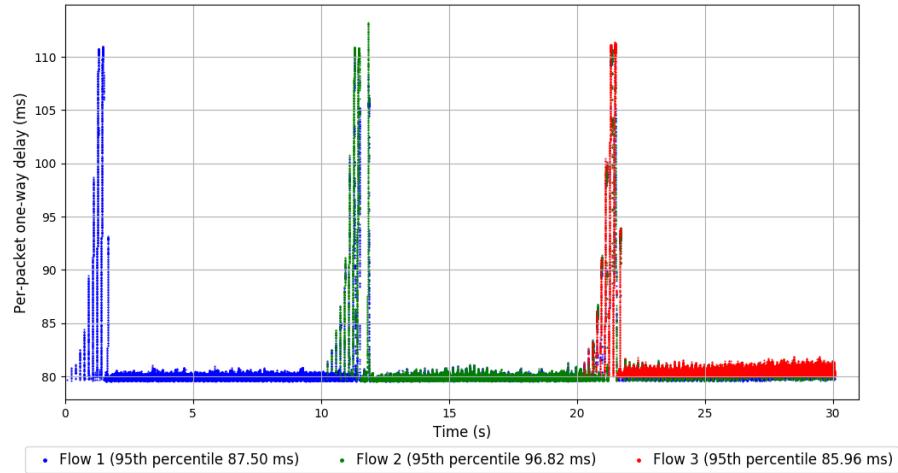
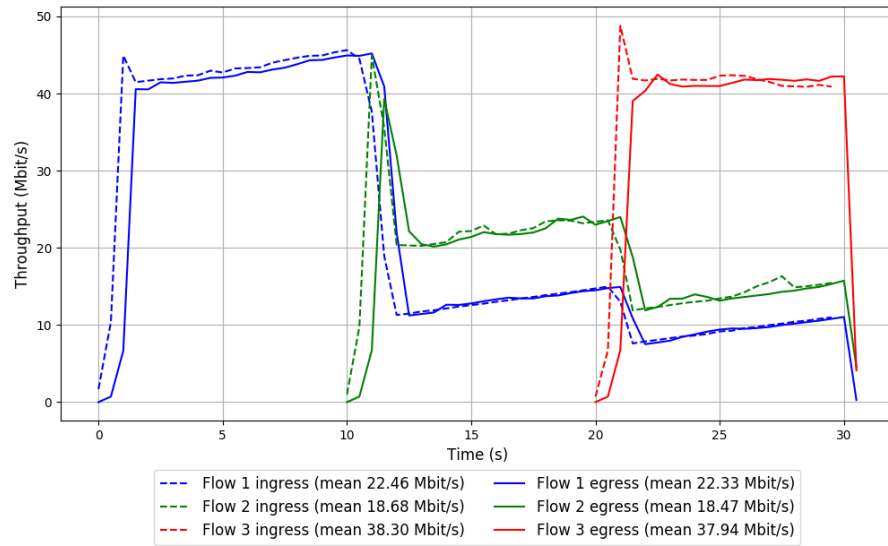
-- Flow 3:

Average throughput: 37.94 Mbit/s

95th percentile per-packet one-way delay: 85.961 ms

Loss rate: 0.96%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-05-30 17:00:13

End at: 2018-05-30 17:00:43

Local clock offset: -1.068 ms

Remote clock offset: 8.726 ms

Below is generated by plot.py at 2018-05-30 19:28:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.63 Mbit/s

95th percentile per-packet one-way delay: 93.899 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 24.77 Mbit/s

95th percentile per-packet one-way delay: 95.742 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 25.42 Mbit/s

95th percentile per-packet one-way delay: 90.493 ms

Loss rate: 0.17%

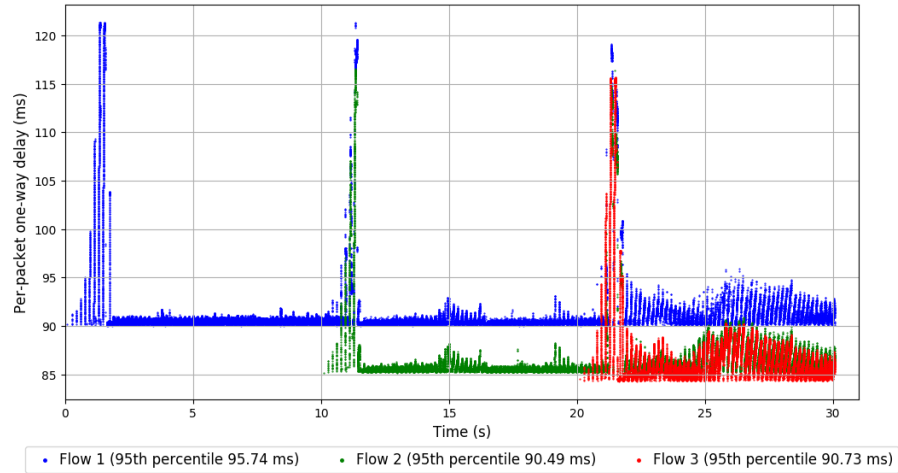
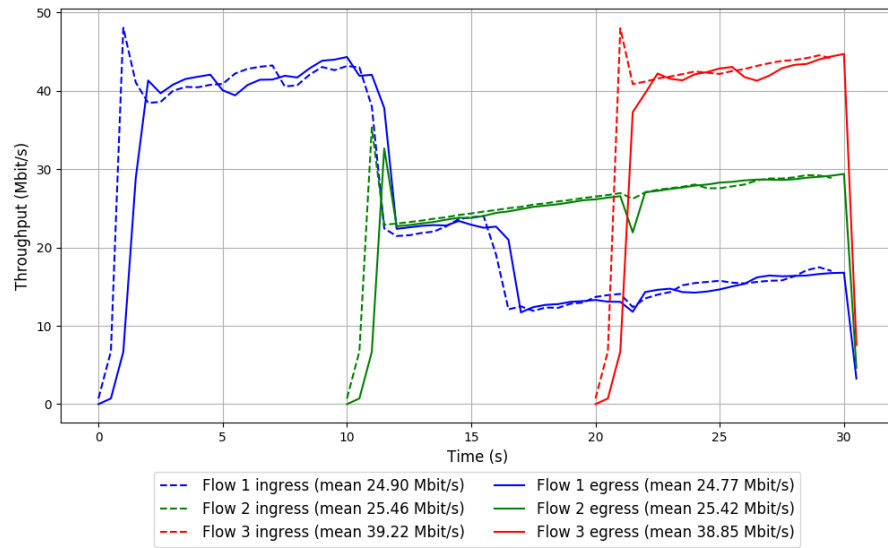
-- Flow 3:

Average throughput: 38.85 Mbit/s

95th percentile per-packet one-way delay: 90.732 ms

Loss rate: 0.94%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-05-30 17:20:25

End at: 2018-05-30 17:20:55

Local clock offset: -2.203 ms

Remote clock offset: 8.595 ms

Below is generated by plot.py at 2018-05-30 19:28:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.42 Mbit/s

95th percentile per-packet one-way delay: 92.141 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 24.40 Mbit/s

95th percentile per-packet one-way delay: 91.876 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 22.88 Mbit/s

95th percentile per-packet one-way delay: 95.796 ms

Loss rate: 1.17%

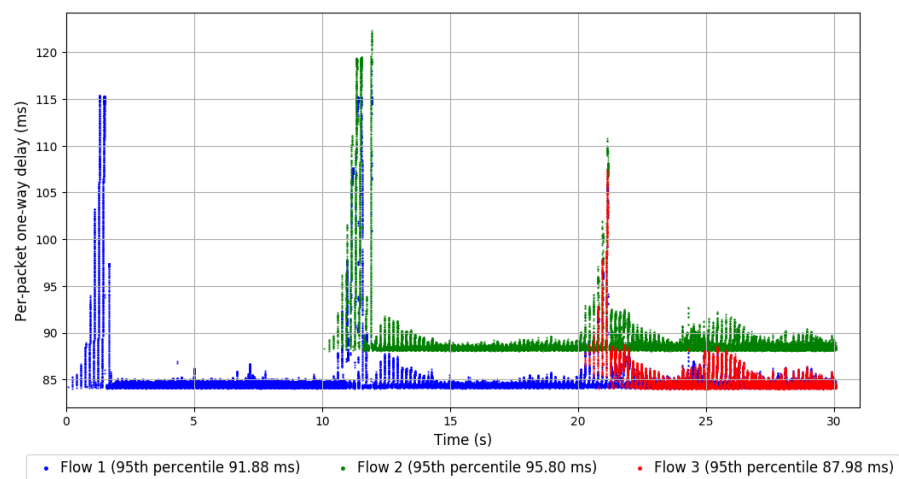
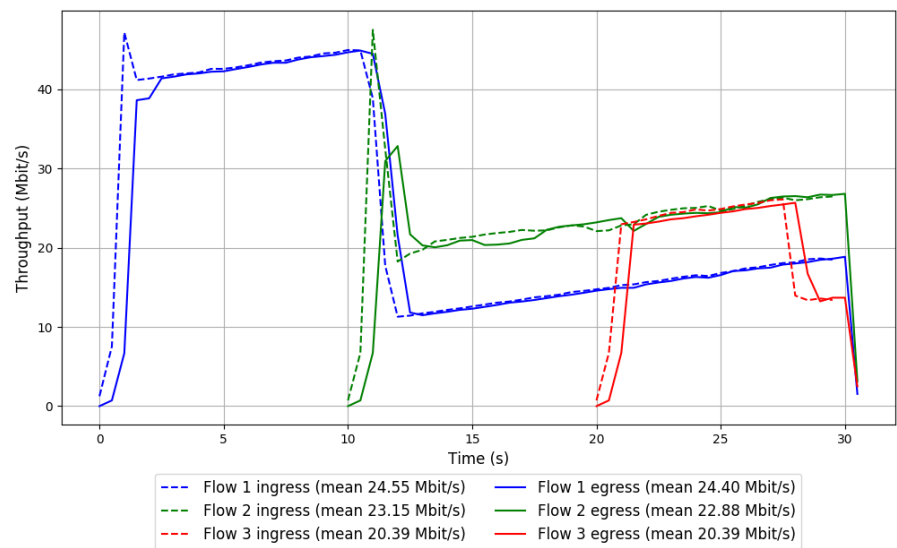
-- Flow 3:

Average throughput: 20.39 Mbit/s

95th percentile per-packet one-way delay: 87.977 ms

Loss rate: 0.01%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-05-30 17:40:26

End at: 2018-05-30 17:40:56

Local clock offset: -2.348 ms

Remote clock offset: 8.566 ms

Below is generated by plot.py at 2018-05-30 19:28:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.04 Mbit/s

95th percentile per-packet one-way delay: 96.469 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 23.89 Mbit/s

95th percentile per-packet one-way delay: 93.980 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 14.97 Mbit/s

95th percentile per-packet one-way delay: 109.073 ms

Loss rate: 1.75%

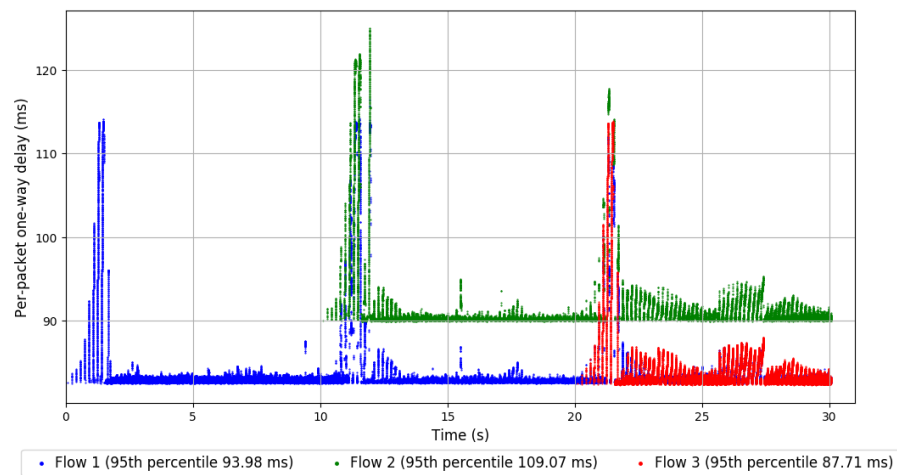
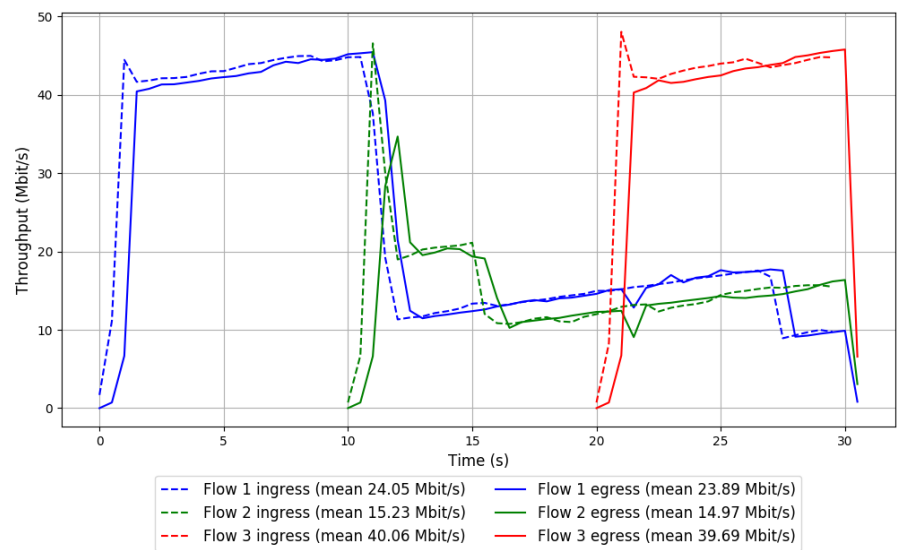
-- Flow 3:

Average throughput: 39.69 Mbit/s

95th percentile per-packet one-way delay: 87.706 ms

Loss rate: 0.93%

Run 6: Report of TCP Vegas — Data Link

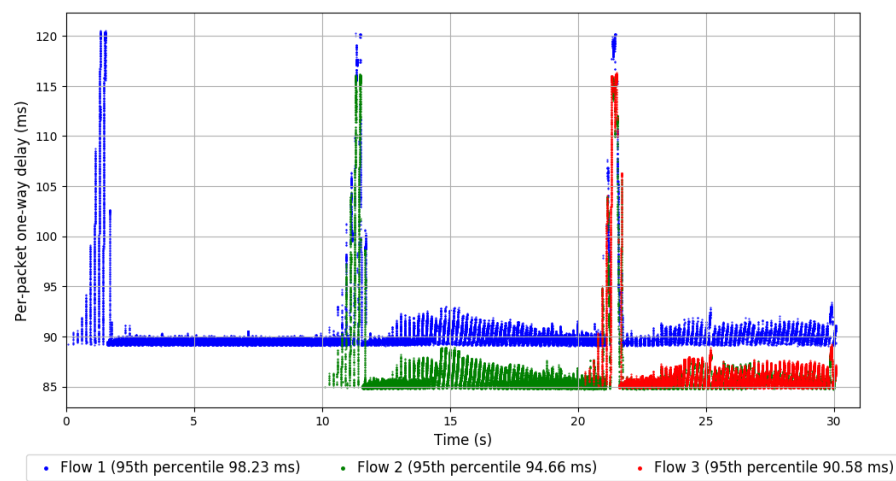
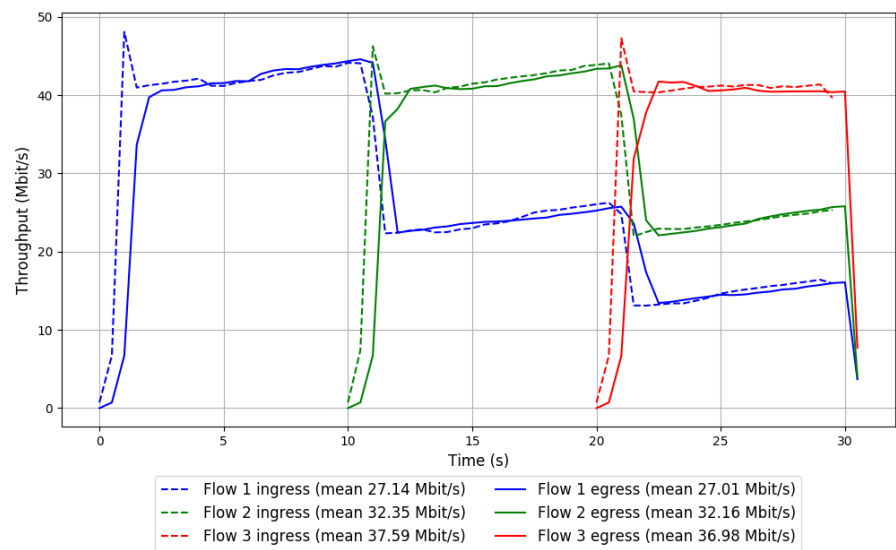


Run 7: Statistics of TCP Vegas

Start at: 2018-05-30 18:00:28
End at: 2018-05-30 18:00:58
Local clock offset: -2.954 ms
Remote clock offset: 12.458 ms

Below is generated by plot.py at 2018-05-30 19:28:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 60.73 Mbit/s
95th percentile per-packet one-way delay: 95.738 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 27.01 Mbit/s
95th percentile per-packet one-way delay: 98.233 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 32.16 Mbit/s
95th percentile per-packet one-way delay: 94.656 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 36.98 Mbit/s
95th percentile per-packet one-way delay: 90.580 ms
Loss rate: 1.62%

Run 7: Report of TCP Vegas — Data Link

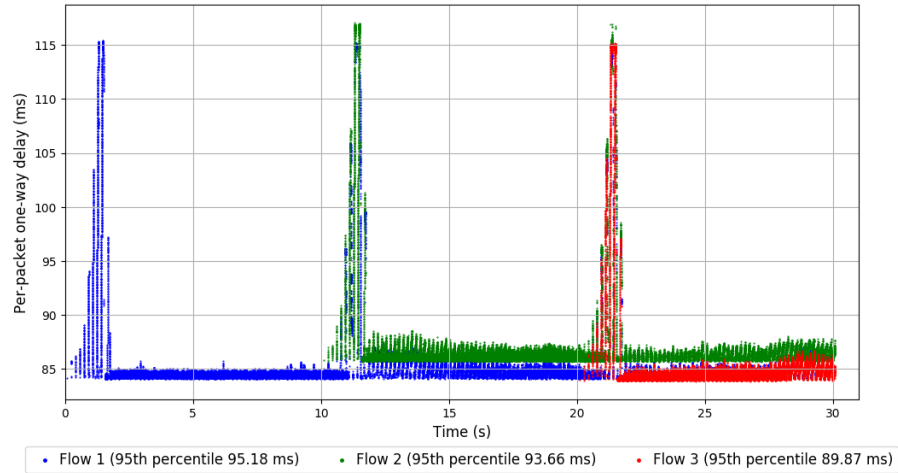
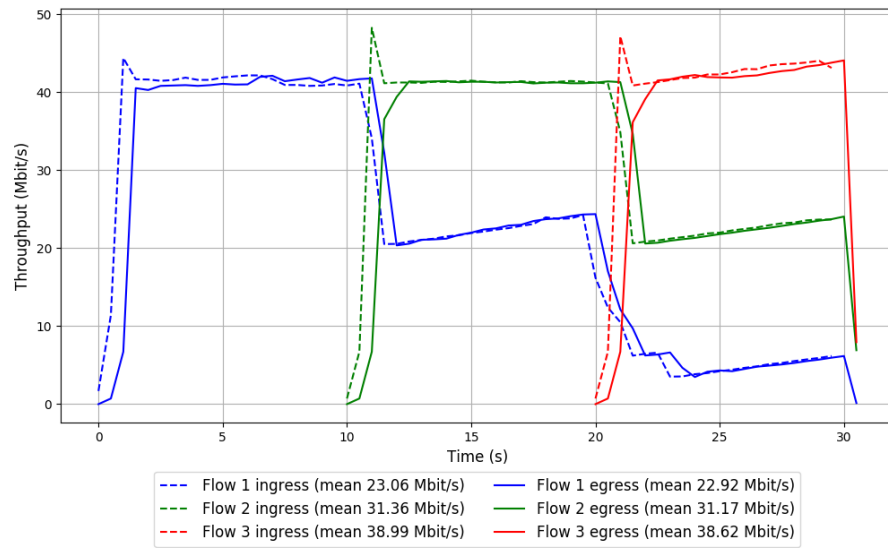


Run 8: Statistics of TCP Vegas

Start at: 2018-05-30 18:20:31
End at: 2018-05-30 18:21:01
Local clock offset: -3.522 ms
Remote clock offset: 15.064 ms

Below is generated by plot.py at 2018-05-30 19:28:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 56.51 Mbit/s
95th percentile per-packet one-way delay: 93.385 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 22.92 Mbit/s
95th percentile per-packet one-way delay: 95.182 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 31.17 Mbit/s
95th percentile per-packet one-way delay: 93.664 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 38.62 Mbit/s
95th percentile per-packet one-way delay: 89.872 ms
Loss rate: 0.93%

Run 8: Report of TCP Vegas — Data Link

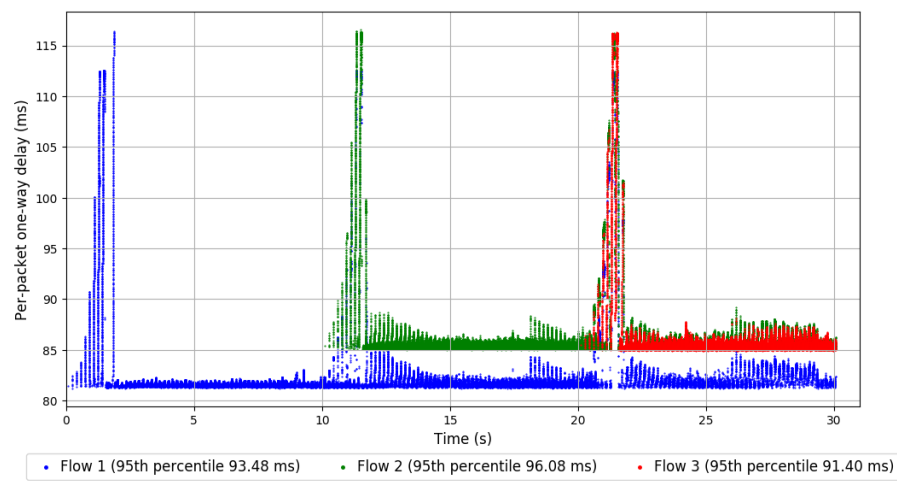
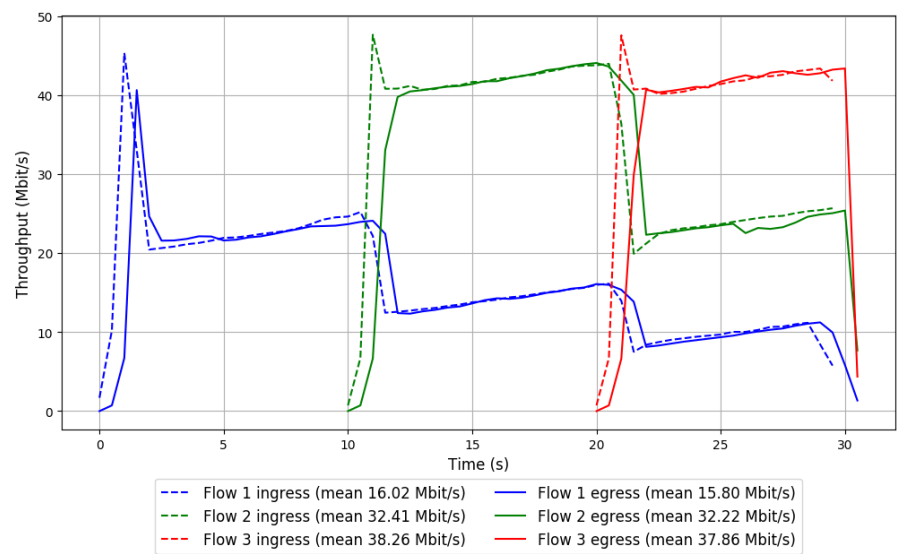


Run 9: Statistics of TCP Vegas

Start at: 2018-05-30 18:40:39
End at: 2018-05-30 18:41:09
Local clock offset: -3.983 ms
Remote clock offset: 11.329 ms

Below is generated by plot.py at 2018-05-30 19:28:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.85 Mbit/s
95th percentile per-packet one-way delay: 93.911 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 15.80 Mbit/s
95th percentile per-packet one-way delay: 93.480 ms
Loss rate: 1.33%
-- Flow 2:
Average throughput: 32.22 Mbit/s
95th percentile per-packet one-way delay: 96.078 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 37.86 Mbit/s
95th percentile per-packet one-way delay: 91.396 ms
Loss rate: 1.04%

Run 9: Report of TCP Vegas — Data Link

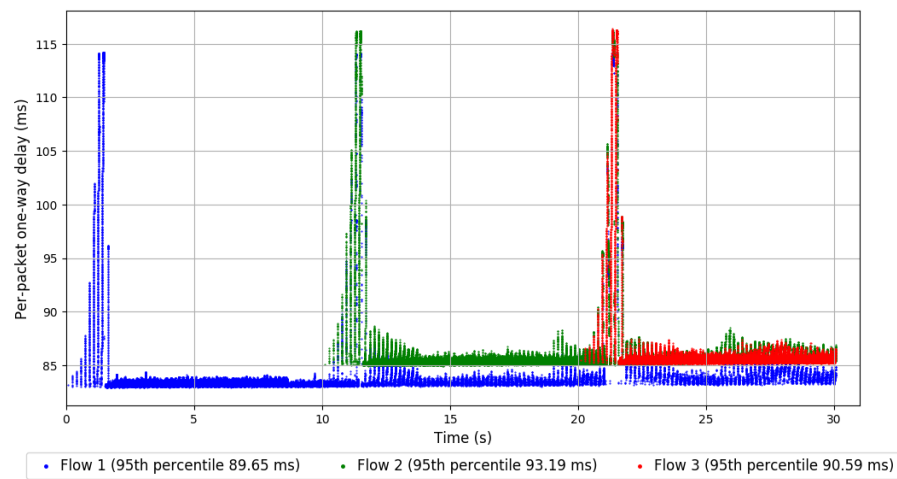
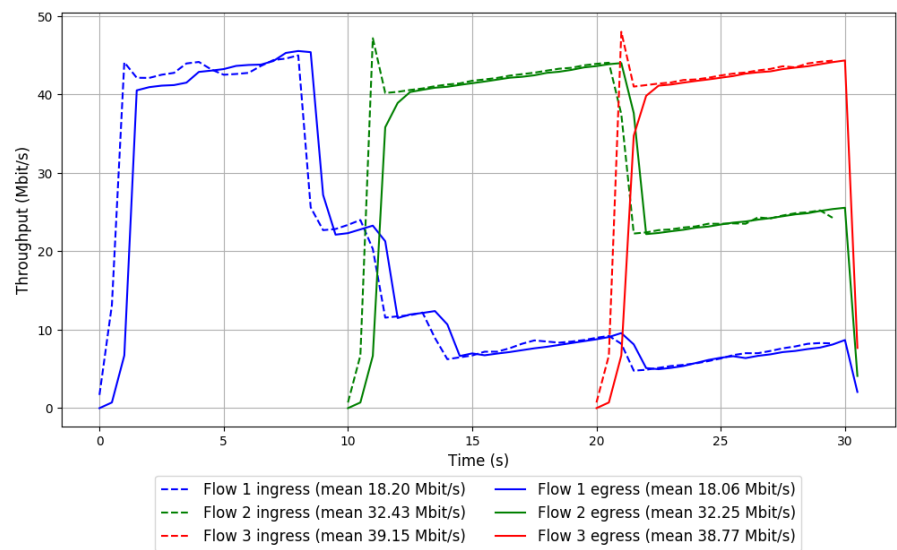


Run 10: Statistics of TCP Vegas

Start at: 2018-05-30 19:00:43
End at: 2018-05-30 19:01:13
Local clock offset: -4.594 ms
Remote clock offset: 11.392 ms

Below is generated by plot.py at 2018-05-30 19:28:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 52.43 Mbit/s
95th percentile per-packet one-way delay: 91.364 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 18.06 Mbit/s
95th percentile per-packet one-way delay: 89.651 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 32.25 Mbit/s
95th percentile per-packet one-way delay: 93.187 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 38.77 Mbit/s
95th percentile per-packet one-way delay: 90.588 ms
Loss rate: 0.95%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-05-30 15:53:22

End at: 2018-05-30 15:53:52

Local clock offset: -1.003 ms

Remote clock offset: 9.017 ms

Below is generated by plot.py at 2018-05-30 19:28:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.89 Mbit/s

95th percentile per-packet one-way delay: 119.364 ms

Loss rate: 21.54%

-- Flow 1:

Average throughput: 25.87 Mbit/s

95th percentile per-packet one-way delay: 114.767 ms

Loss rate: 24.02%

-- Flow 2:

Average throughput: 27.33 Mbit/s

95th percentile per-packet one-way delay: 120.631 ms

Loss rate: 18.87%

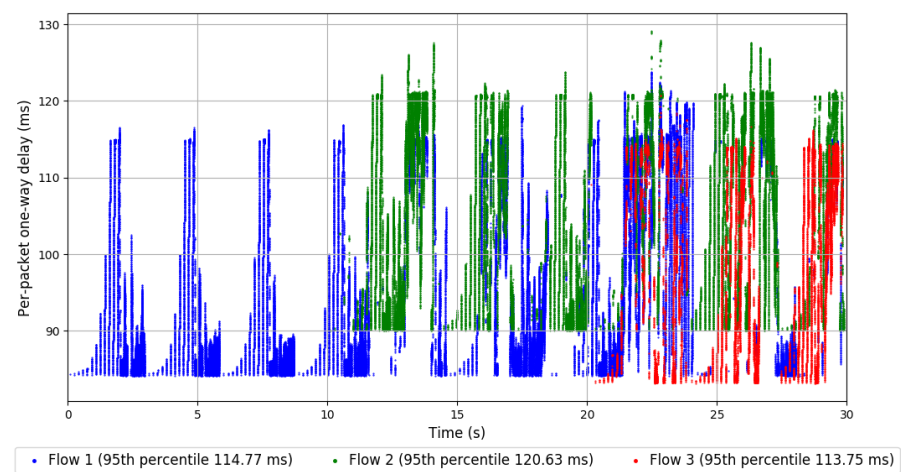
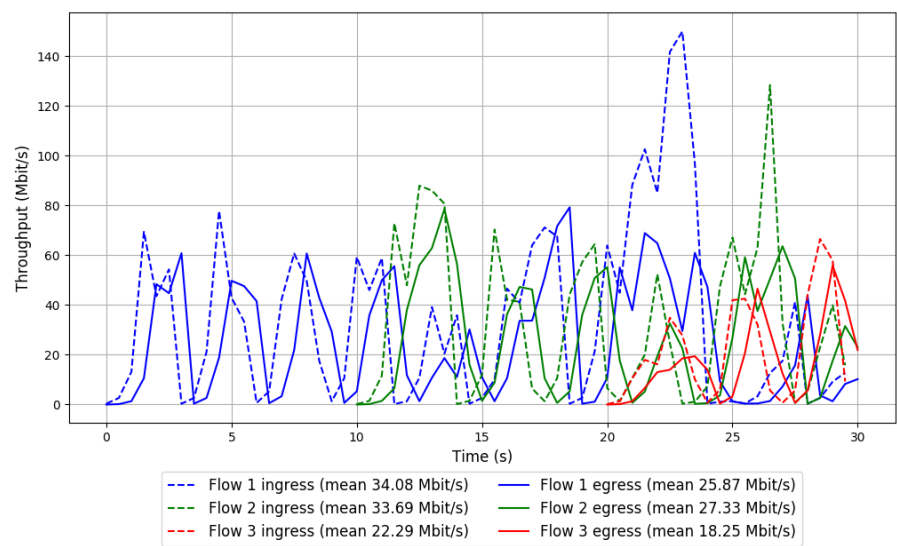
-- Flow 3:

Average throughput: 18.25 Mbit/s

95th percentile per-packet one-way delay: 113.752 ms

Loss rate: 18.18%

Run 1: Report of Verus — Data Link

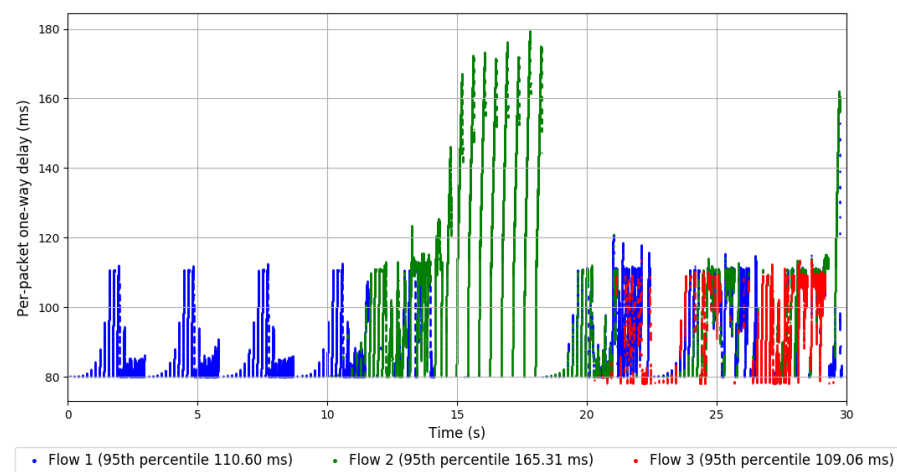
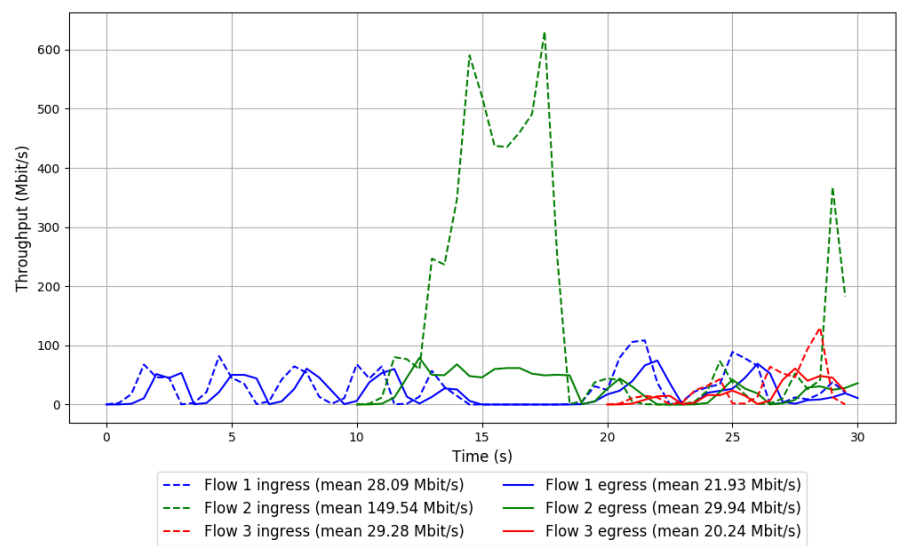


Run 2: Statistics of Verus

Start at: 2018-05-30 16:13:28
End at: 2018-05-30 16:13:58
Local clock offset: -2.057 ms
Remote clock offset: 4.054 ms

Below is generated by plot.py at 2018-05-30 19:28:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.11 Mbit/s
95th percentile per-packet one-way delay: 153.370 ms
Loss rate: 64.62%
-- Flow 1:
Average throughput: 21.93 Mbit/s
95th percentile per-packet one-way delay: 110.602 ms
Loss rate: 21.91%
-- Flow 2:
Average throughput: 29.94 Mbit/s
95th percentile per-packet one-way delay: 165.309 ms
Loss rate: 79.90%
-- Flow 3:
Average throughput: 20.24 Mbit/s
95th percentile per-packet one-way delay: 109.063 ms
Loss rate: 32.15%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-05-30 16:33:43

End at: 2018-05-30 16:34:13

Local clock offset: -3.198 ms

Remote clock offset: 7.907 ms

Below is generated by plot.py at 2018-05-30 19:28:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.95 Mbit/s

95th percentile per-packet one-way delay: 119.017 ms

Loss rate: 23.19%

-- Flow 1:

Average throughput: 22.46 Mbit/s

95th percentile per-packet one-way delay: 121.129 ms

Loss rate: 10.19%

-- Flow 2:

Average throughput: 20.93 Mbit/s

95th percentile per-packet one-way delay: 116.449 ms

Loss rate: 11.49%

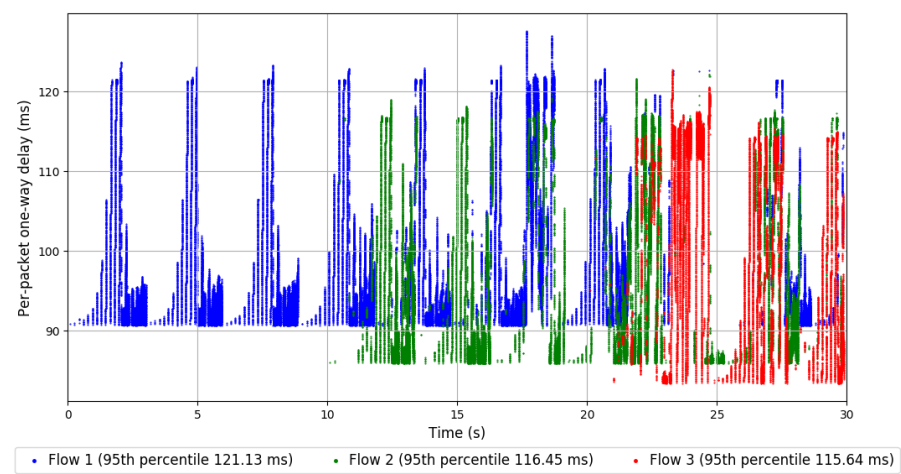
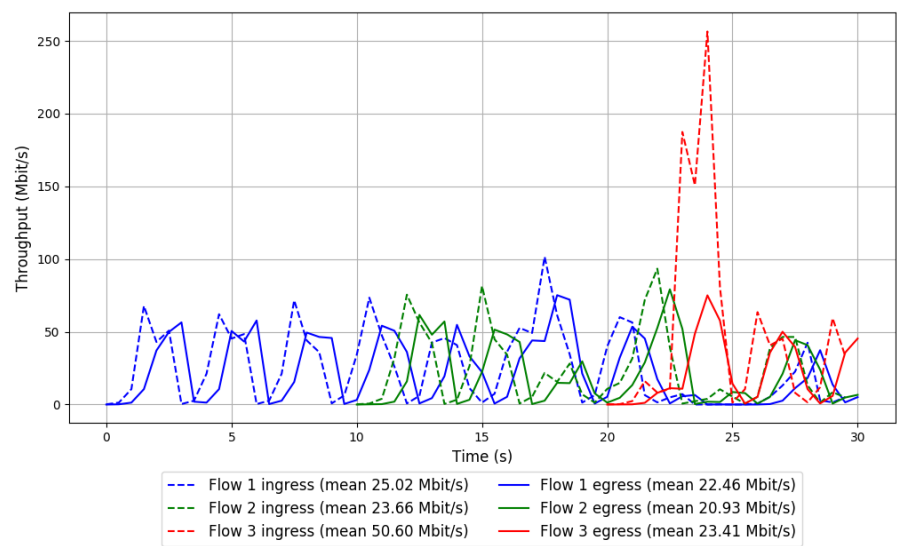
-- Flow 3:

Average throughput: 23.41 Mbit/s

95th percentile per-packet one-way delay: 115.640 ms

Loss rate: 53.77%

Run 3: Report of Verus — Data Link

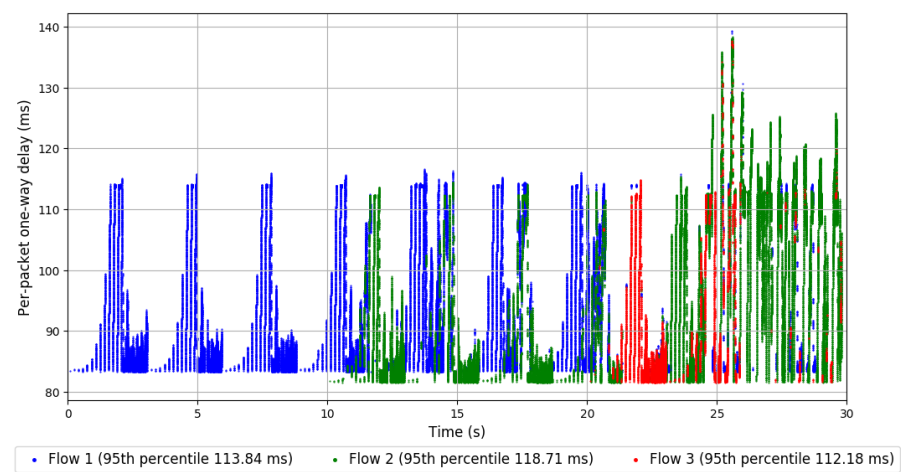
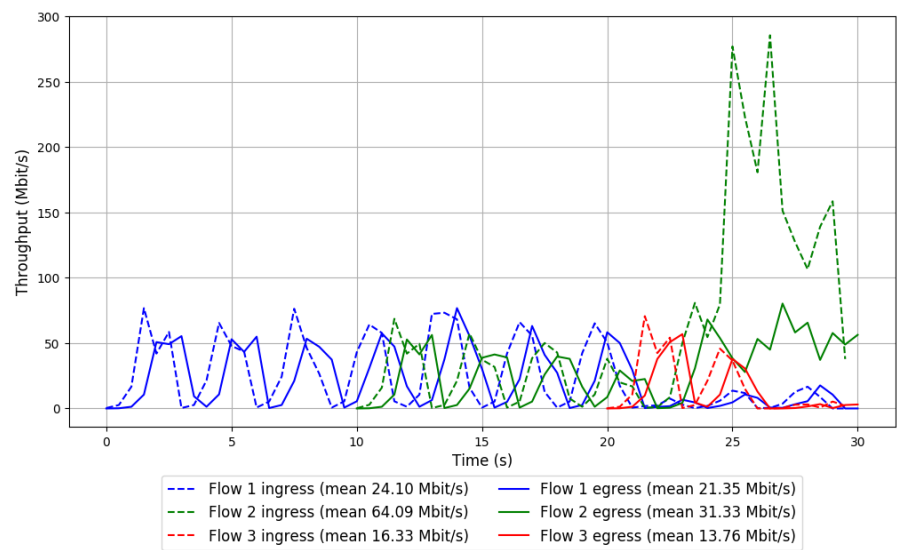


Run 4: Statistics of Verus

Start at: 2018-05-30 16:53:54
End at: 2018-05-30 16:54:24
Local clock offset: -1.136 ms
Remote clock offset: 7.897 ms

Below is generated by plot.py at 2018-05-30 19:28:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 46.61 Mbit/s
95th percentile per-packet one-way delay: 114.017 ms
Loss rate: 35.13%
-- Flow 1:
Average throughput: 21.35 Mbit/s
95th percentile per-packet one-way delay: 113.838 ms
Loss rate: 11.35%
-- Flow 2:
Average throughput: 31.33 Mbit/s
95th percentile per-packet one-way delay: 118.713 ms
Loss rate: 51.05%
-- Flow 3:
Average throughput: 13.76 Mbit/s
95th percentile per-packet one-way delay: 112.177 ms
Loss rate: 15.64%

Run 4: Report of Verus — Data Link

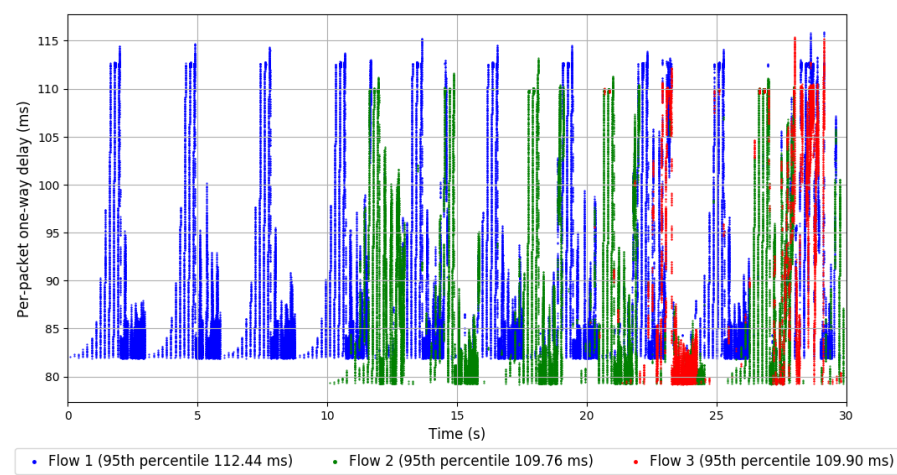
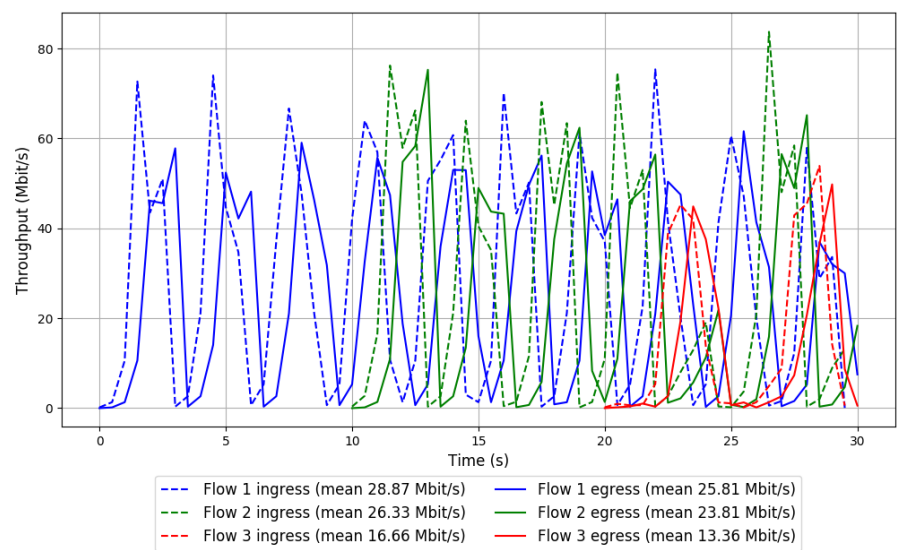


Run 5: Statistics of Verus

Start at: 2018-05-30 17:14:08
End at: 2018-05-30 17:14:38
Local clock offset: -2.566 ms
Remote clock offset: 4.734 ms

```
# Below is generated by plot.py at 2018-05-30 19:28:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 45.84 Mbit/s
95th percentile per-packet one-way delay: 111.357 ms
Loss rate: 11.21%
-- Flow 1:
Average throughput: 25.81 Mbit/s
95th percentile per-packet one-way delay: 112.444 ms
Loss rate: 10.60%
-- Flow 2:
Average throughput: 23.81 Mbit/s
95th percentile per-packet one-way delay: 109.758 ms
Loss rate: 9.54%
-- Flow 3:
Average throughput: 13.36 Mbit/s
95th percentile per-packet one-way delay: 109.897 ms
Loss rate: 19.85%
```

Run 5: Report of Verus — Data Link

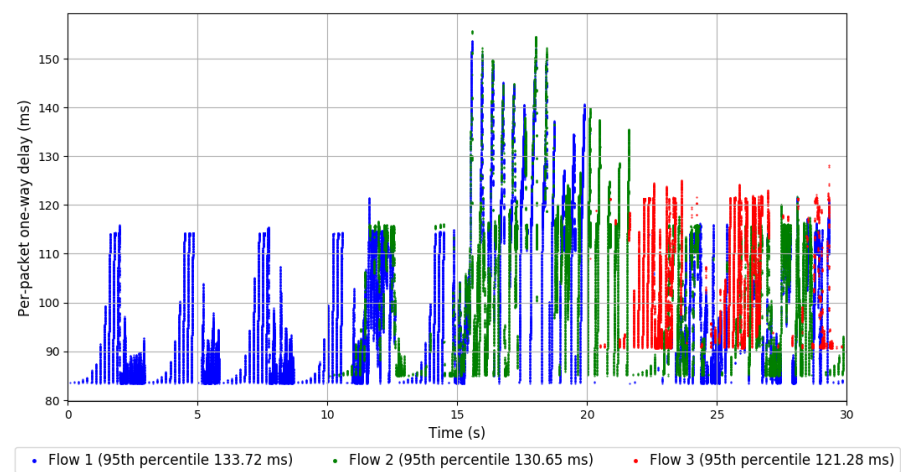
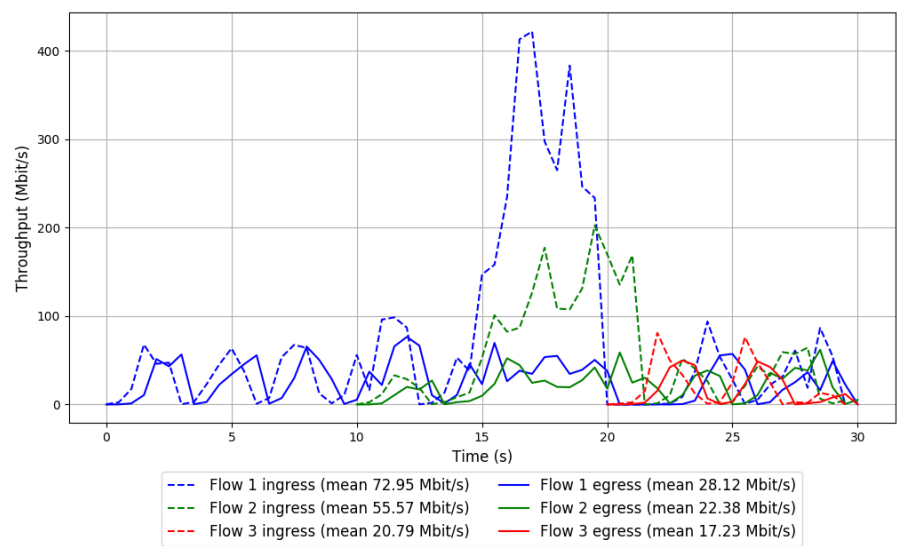


Run 6: Statistics of Verus

Start at: 2018-05-30 17:34:08
End at: 2018-05-30 17:34:38
Local clock offset: -2.466 ms
Remote clock offset: 9.416 ms

Below is generated by plot.py at 2018-05-30 19:29:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.52 Mbit/s
95th percentile per-packet one-way delay: 131.254 ms
Loss rate: 58.34%
-- Flow 1:
Average throughput: 28.12 Mbit/s
95th percentile per-packet one-way delay: 133.715 ms
Loss rate: 61.45%
-- Flow 2:
Average throughput: 22.38 Mbit/s
95th percentile per-packet one-way delay: 130.651 ms
Loss rate: 59.72%
-- Flow 3:
Average throughput: 17.23 Mbit/s
95th percentile per-packet one-way delay: 121.279 ms
Loss rate: 17.32%

Run 6: Report of Verus — Data Link

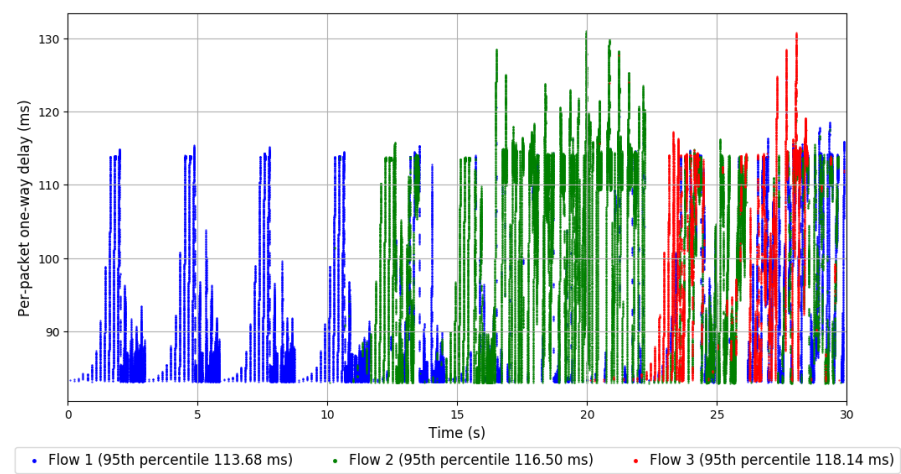
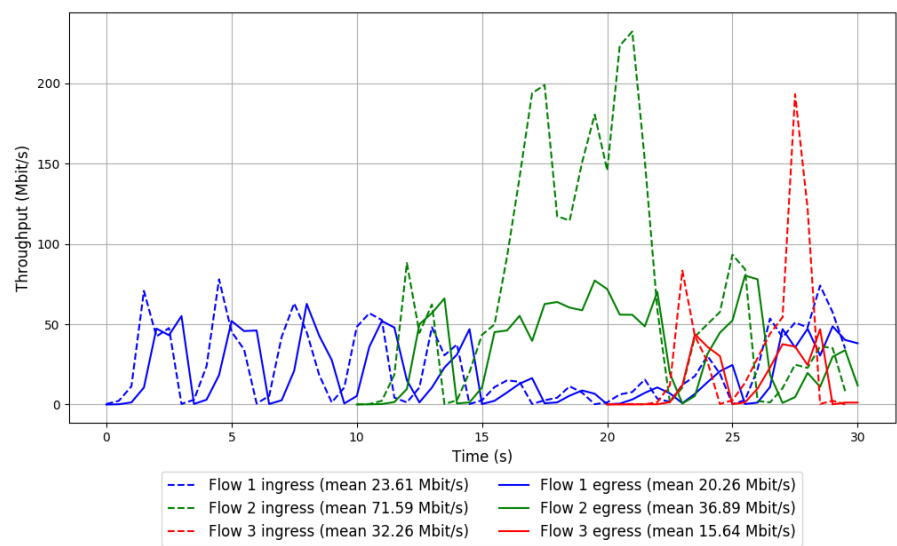


Run 7: Statistics of Verus

Start at: 2018-05-30 17:54:09
End at: 2018-05-30 17:54:39
Local clock offset: -2.208 ms
Remote clock offset: 10.238 ms

Below is generated by plot.py at 2018-05-30 19:29:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.71 Mbit/s
95th percentile per-packet one-way delay: 114.743 ms
Loss rate: 38.88%
-- Flow 1:
Average throughput: 20.26 Mbit/s
95th percentile per-packet one-way delay: 113.681 ms
Loss rate: 14.13%
-- Flow 2:
Average throughput: 36.89 Mbit/s
95th percentile per-packet one-way delay: 116.502 ms
Loss rate: 48.47%
-- Flow 3:
Average throughput: 15.64 Mbit/s
95th percentile per-packet one-way delay: 118.137 ms
Loss rate: 51.37%

Run 7: Report of Verus — Data Link

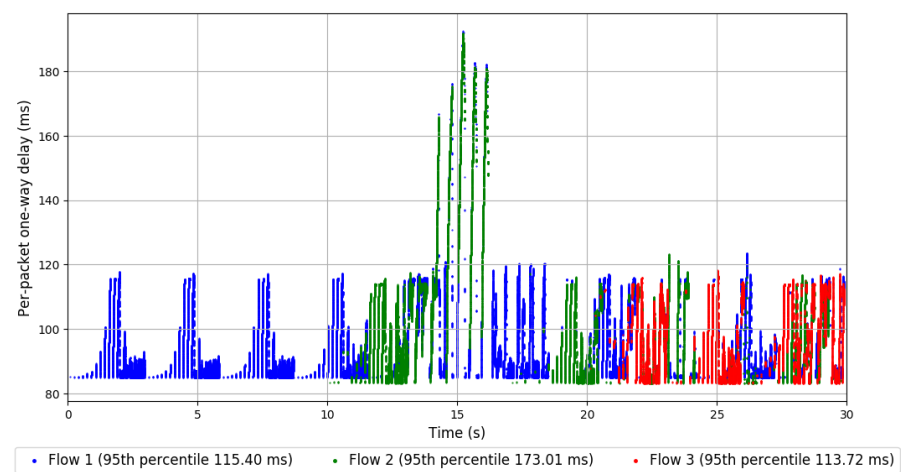
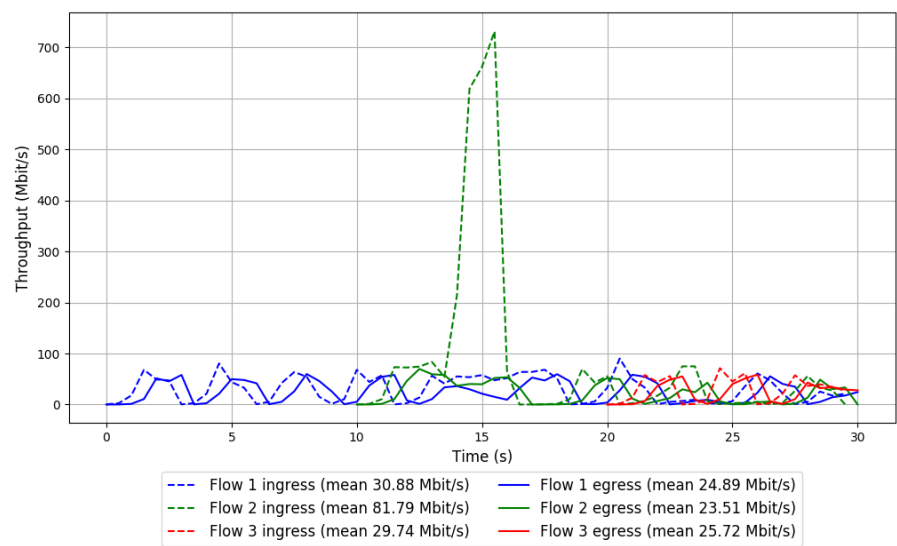


Run 8: Statistics of Verus

Start at: 2018-05-30 18:14:12
End at: 2018-05-30 18:14:42
Local clock offset: -4.16 ms
Remote clock offset: 13.052 ms

Below is generated by plot.py at 2018-05-30 19:29:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.84 Mbit/s
95th percentile per-packet one-way delay: 137.863 ms
Loss rate: 48.34%
-- Flow 1:
Average throughput: 24.89 Mbit/s
95th percentile per-packet one-way delay: 115.402 ms
Loss rate: 19.33%
-- Flow 2:
Average throughput: 23.51 Mbit/s
95th percentile per-packet one-way delay: 173.011 ms
Loss rate: 71.26%
-- Flow 3:
Average throughput: 25.72 Mbit/s
95th percentile per-packet one-way delay: 113.721 ms
Loss rate: 13.28%

Run 8: Report of Verus — Data Link

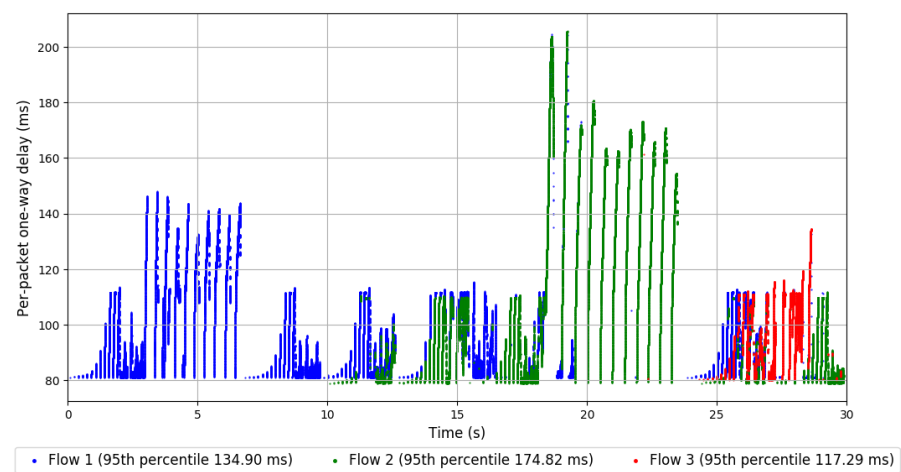
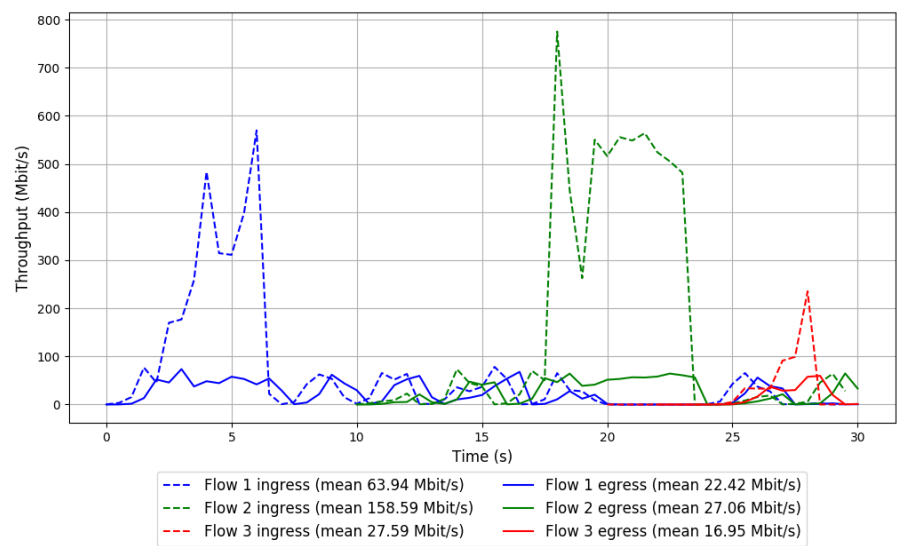


Run 9: Statistics of Verus

Start at: 2018-05-30 18:34:18
End at: 2018-05-30 18:34:48
Local clock offset: -3.681 ms
Remote clock offset: 11.014 ms

Below is generated by plot.py at 2018-05-30 19:29:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 44.62 Mbit/s
95th percentile per-packet one-way delay: 164.316 ms
Loss rate: 74.93%
-- Flow 1:
Average throughput: 22.42 Mbit/s
95th percentile per-packet one-way delay: 134.902 ms
Loss rate: 64.94%
-- Flow 2:
Average throughput: 27.06 Mbit/s
95th percentile per-packet one-way delay: 174.817 ms
Loss rate: 82.94%
-- Flow 3:
Average throughput: 16.95 Mbit/s
95th percentile per-packet one-way delay: 117.292 ms
Loss rate: 51.78%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-05-30 18:54:24

End at: 2018-05-30 18:54:54

Local clock offset: -3.748 ms

Remote clock offset: 12.07 ms

Below is generated by plot.py at 2018-05-30 19:29:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 45.11 Mbit/s

95th percentile per-packet one-way delay: 145.944 ms

Loss rate: 64.65%

-- Flow 1:

Average throughput: 21.47 Mbit/s

95th percentile per-packet one-way delay: 108.776 ms

Loss rate: 10.44%

-- Flow 2:

Average throughput: 32.19 Mbit/s

95th percentile per-packet one-way delay: 152.403 ms

Loss rate: 78.80%

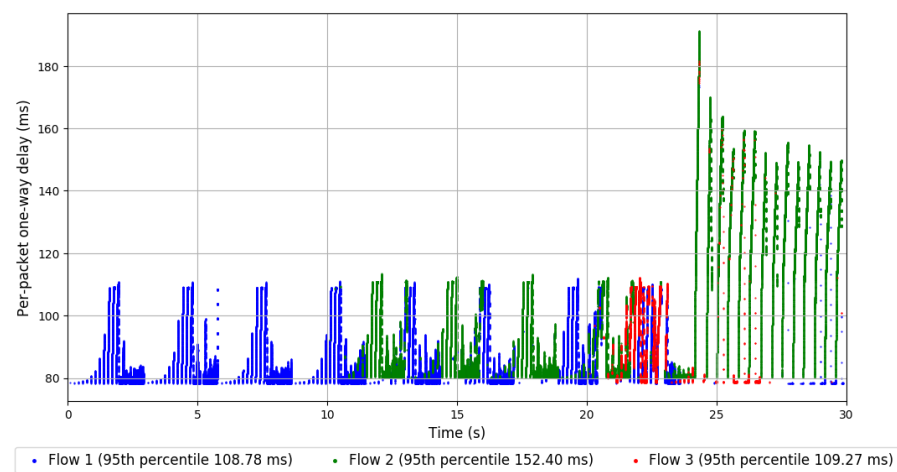
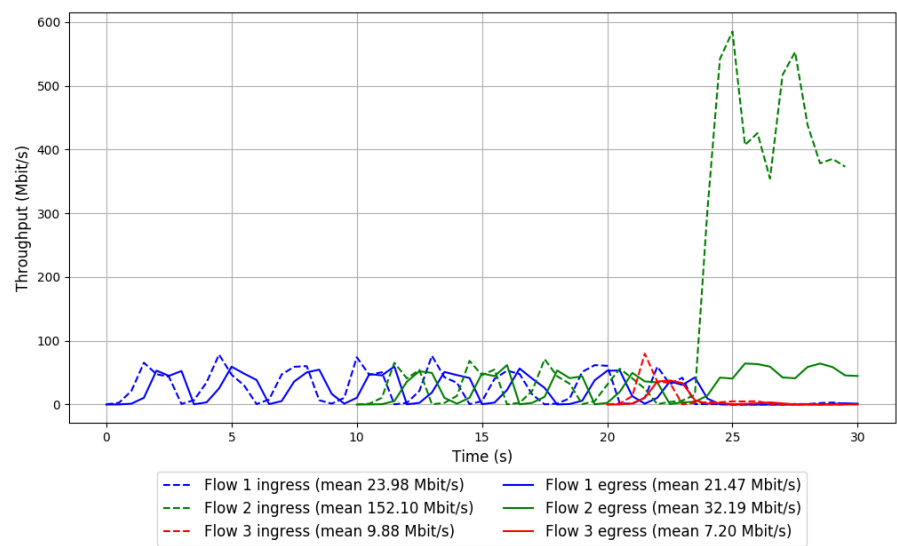
-- Flow 3:

Average throughput: 7.20 Mbit/s

95th percentile per-packet one-way delay: 109.270 ms

Loss rate: 27.02%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-05-30 16:00:54

End at: 2018-05-30 16:01:24

Local clock offset: -2.483 ms

Remote clock offset: 8.346 ms

Below is generated by plot.py at 2018-05-30 19:29:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.42 Mbit/s

95th percentile per-packet one-way delay: 108.941 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 64.18 Mbit/s

95th percentile per-packet one-way delay: 109.435 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 15.36 Mbit/s

95th percentile per-packet one-way delay: 107.416 ms

Loss rate: 0.00%

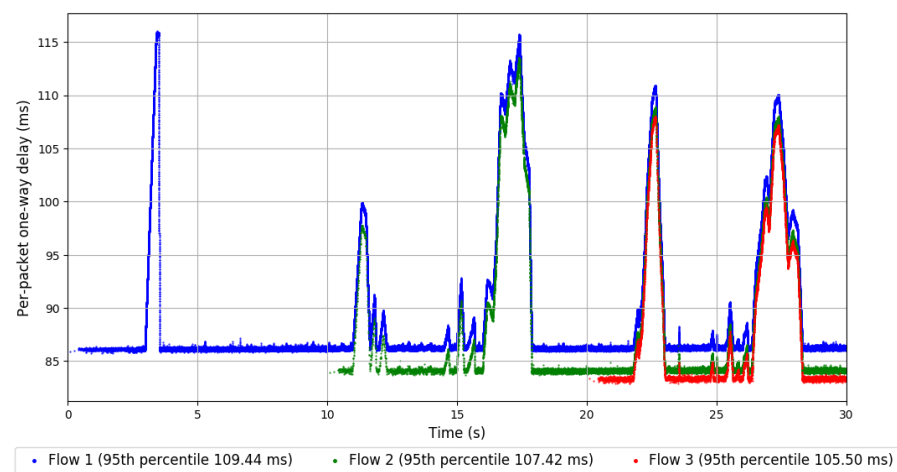
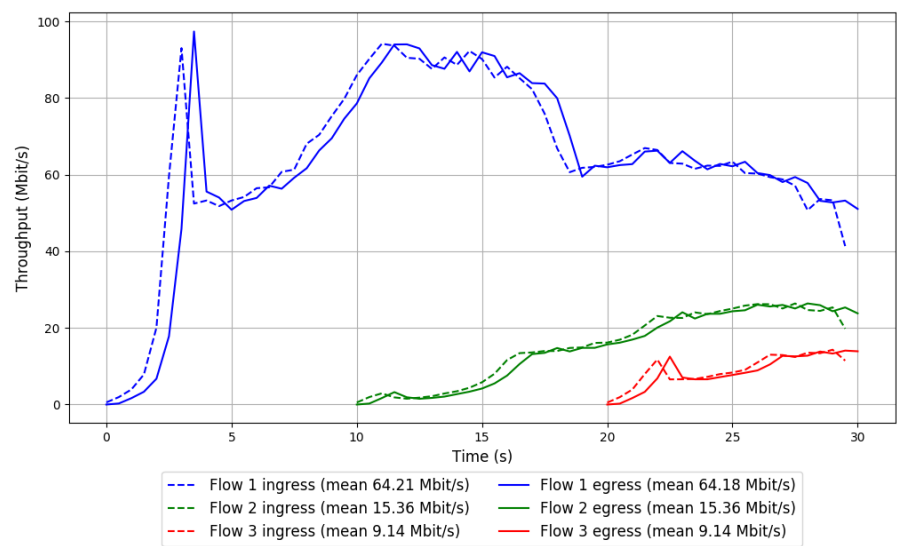
-- Flow 3:

Average throughput: 9.14 Mbit/s

95th percentile per-packet one-way delay: 105.499 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-05-30 16:21:02

End at: 2018-05-30 16:21:32

Local clock offset: -3.012 ms

Remote clock offset: 8.724 ms

Below is generated by plot.py at 2018-05-30 19:29:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.24 Mbit/s

95th percentile per-packet one-way delay: 106.424 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 63.71 Mbit/s

95th percentile per-packet one-way delay: 103.382 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 14.04 Mbit/s

95th percentile per-packet one-way delay: 111.772 ms

Loss rate: 0.02%

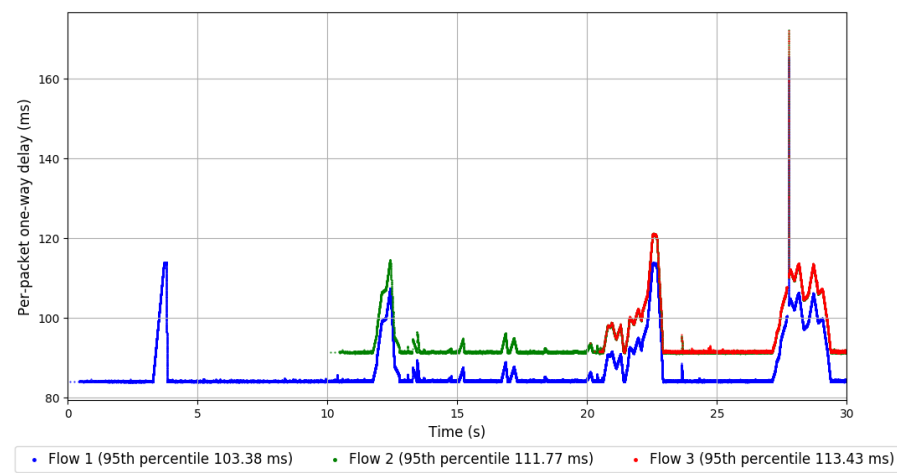
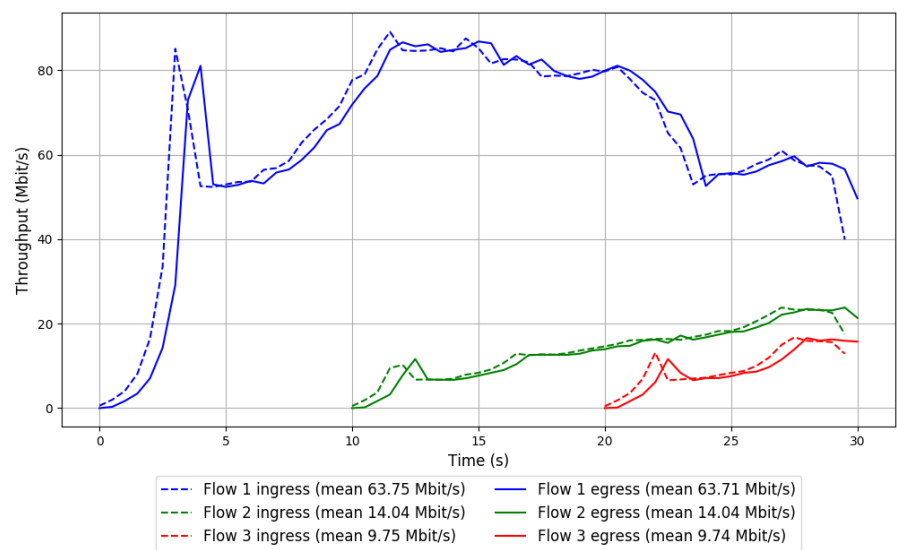
-- Flow 3:

Average throughput: 9.74 Mbit/s

95th percentile per-packet one-way delay: 113.431 ms

Loss rate: 0.14%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-05-30 16:41:16

End at: 2018-05-30 16:41:46

Local clock offset: -2.984 ms

Remote clock offset: 7.785 ms

Below is generated by plot.py at 2018-05-30 19:29:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.95 Mbit/s

95th percentile per-packet one-way delay: 100.756 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 65.50 Mbit/s

95th percentile per-packet one-way delay: 103.204 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 12.58 Mbit/s

95th percentile per-packet one-way delay: 93.305 ms

Loss rate: 0.04%

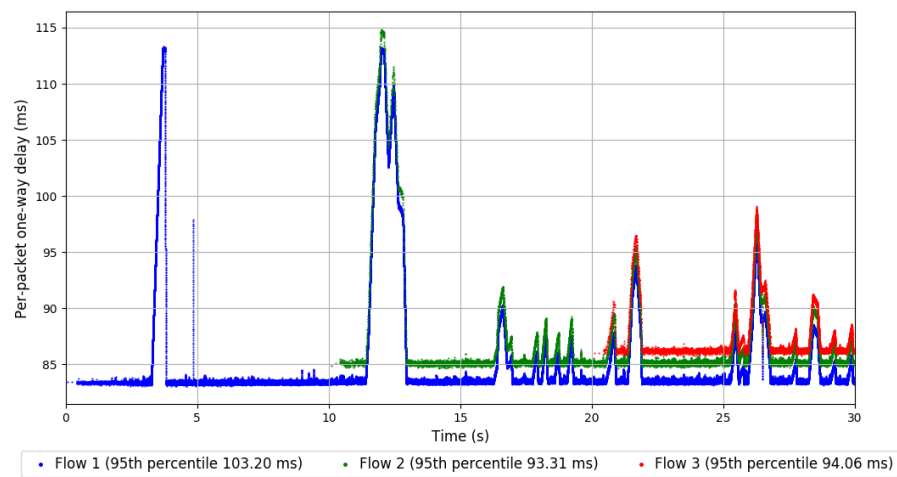
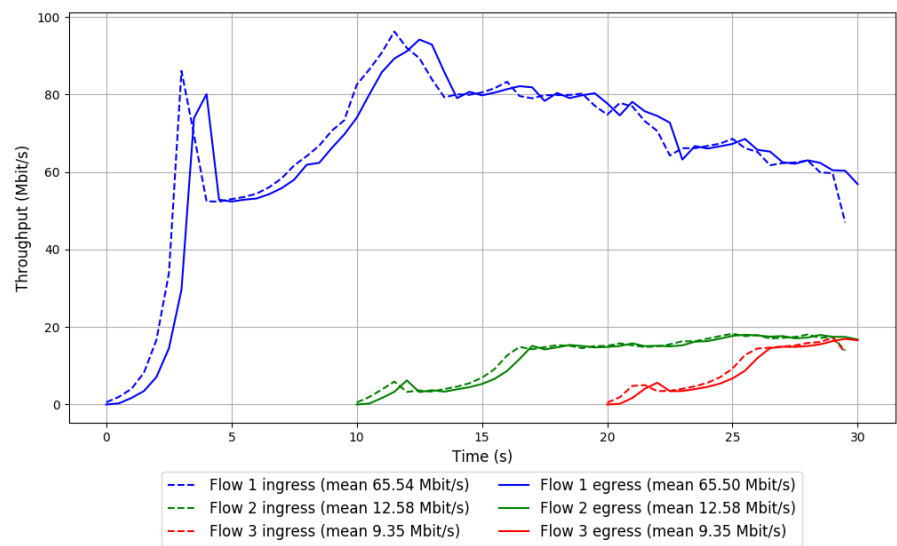
-- Flow 3:

Average throughput: 9.35 Mbit/s

95th percentile per-packet one-way delay: 94.063 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-05-30 17:01:27

End at: 2018-05-30 17:01:57

Local clock offset: -1.826 ms

Remote clock offset: 8.672 ms

Below is generated by plot.py at 2018-05-30 19:30:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.94 Mbit/s

95th percentile per-packet one-way delay: 115.323 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 67.75 Mbit/s

95th percentile per-packet one-way delay: 115.397 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 8.65 Mbit/s

95th percentile per-packet one-way delay: 112.426 ms

Loss rate: 0.45%

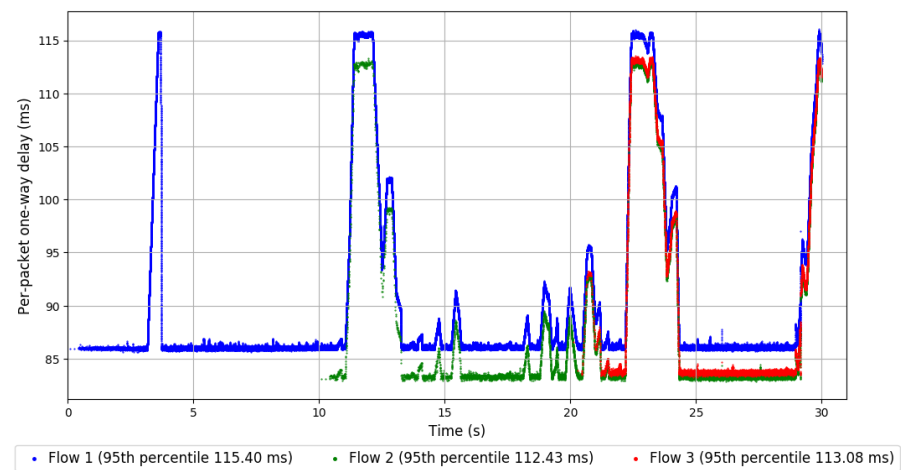
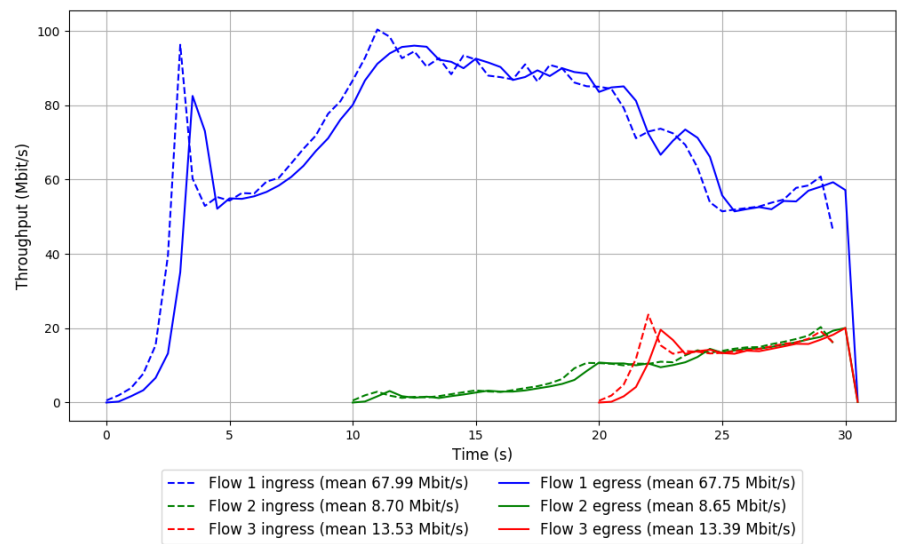
-- Flow 3:

Average throughput: 13.39 Mbit/s

95th percentile per-packet one-way delay: 113.083 ms

Loss rate: 0.80%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-05-30 17:21:38

End at: 2018-05-30 17:22:08

Local clock offset: -2.171 ms

Remote clock offset: 9.514 ms

Below is generated by plot.py at 2018-05-30 19:30:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.78 Mbit/s

95th percentile per-packet one-way delay: 103.138 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 68.12 Mbit/s

95th percentile per-packet one-way delay: 103.841 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 12.75 Mbit/s

95th percentile per-packet one-way delay: 97.328 ms

Loss rate: 0.00%

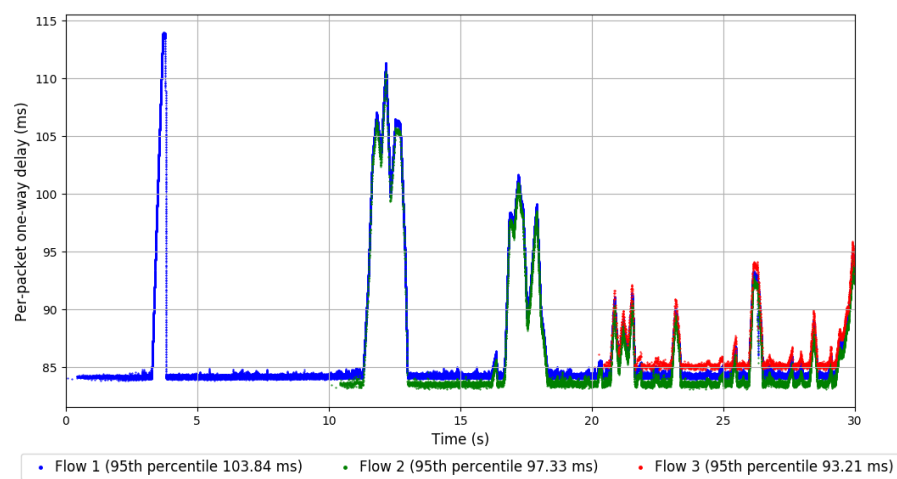
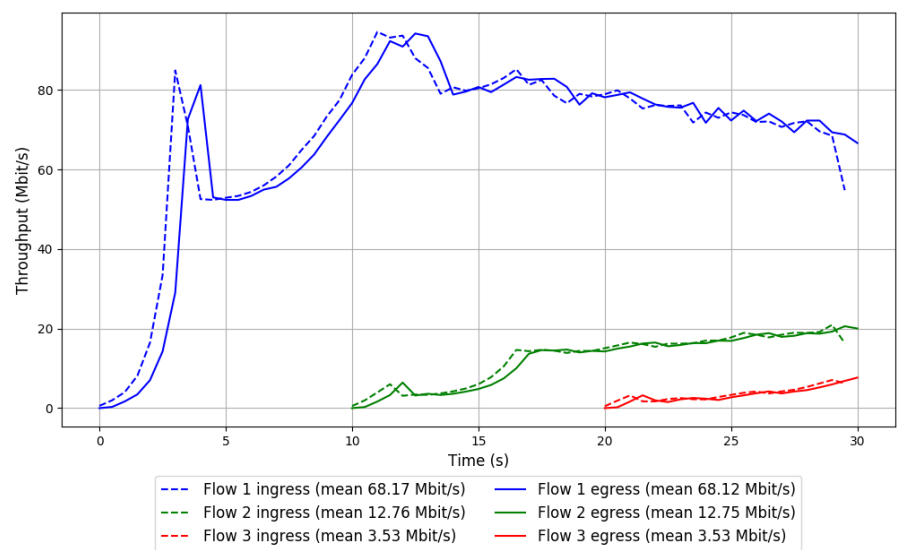
-- Flow 3:

Average throughput: 3.53 Mbit/s

95th percentile per-packet one-way delay: 93.210 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-05-30 17:41:40

End at: 2018-05-30 17:42:10

Local clock offset: -2.288 ms

Remote clock offset: 8.513 ms

Below is generated by plot.py at 2018-05-30 19:30:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.71 Mbit/s

95th percentile per-packet one-way delay: 113.792 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 64.02 Mbit/s

95th percentile per-packet one-way delay: 113.798 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 16.45 Mbit/s

95th percentile per-packet one-way delay: 113.767 ms

Loss rate: 0.61%

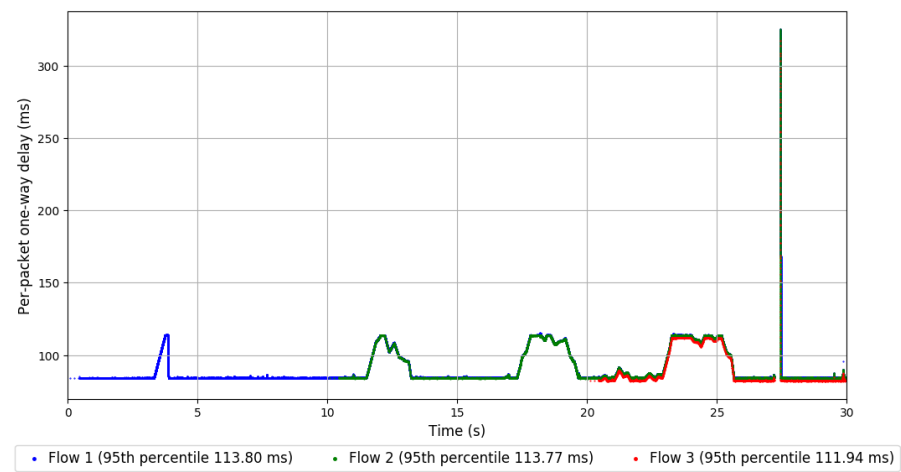
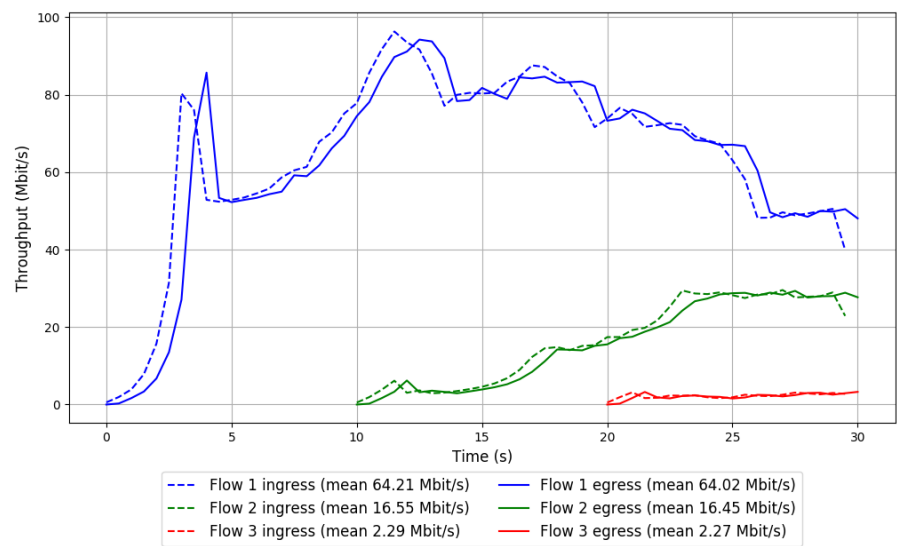
-- Flow 3:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 111.944 ms

Loss rate: 0.89%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-05-30 18:01:42

End at: 2018-05-30 18:02:12

Local clock offset: -2.185 ms

Remote clock offset: 7.796 ms

Below is generated by plot.py at 2018-05-30 19:30:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.64 Mbit/s

95th percentile per-packet one-way delay: 102.788 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 70.63 Mbit/s

95th percentile per-packet one-way delay: 103.587 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 9.36 Mbit/s

95th percentile per-packet one-way delay: 98.802 ms

Loss rate: 0.07%

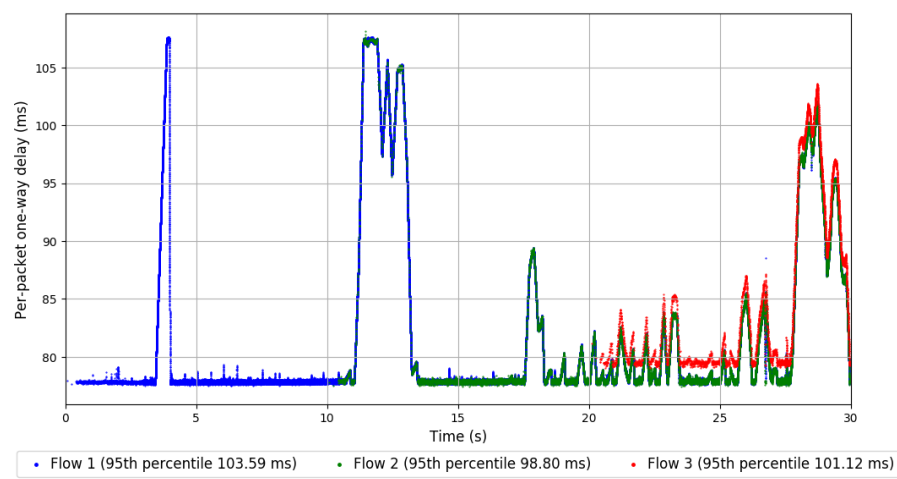
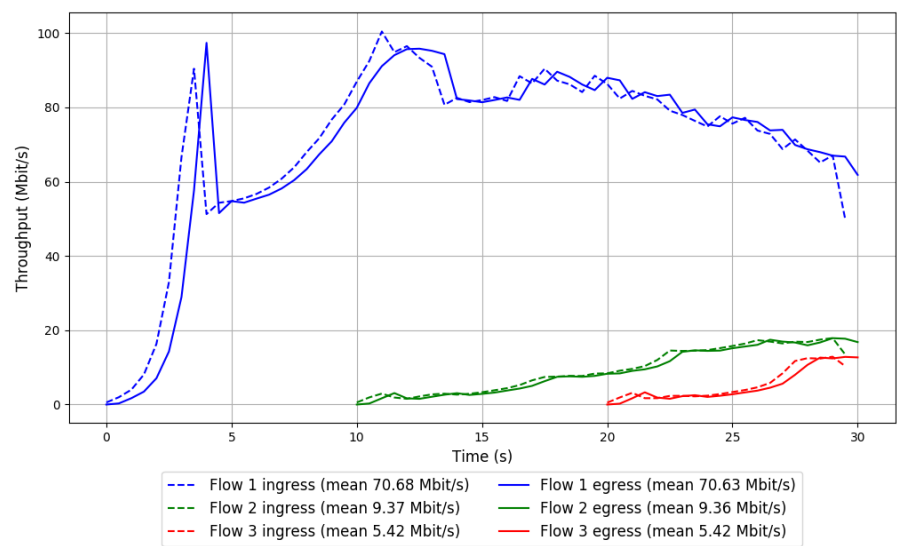
-- Flow 3:

Average throughput: 5.42 Mbit/s

95th percentile per-packet one-way delay: 101.123 ms

Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link

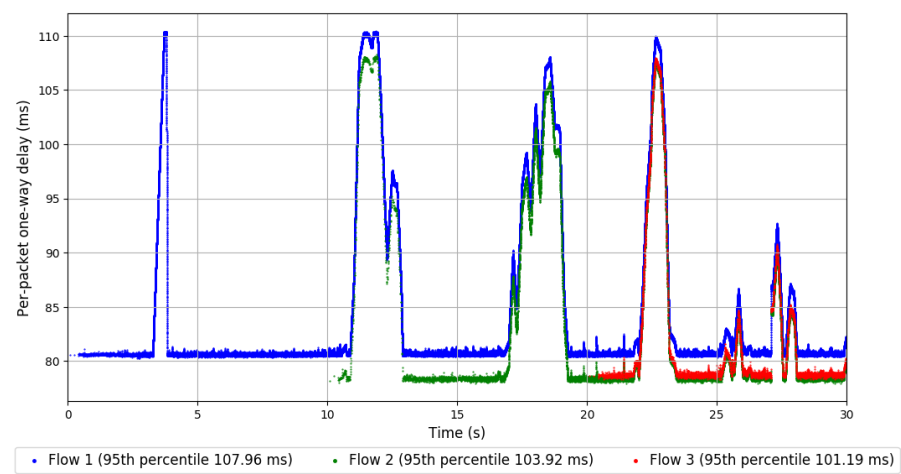
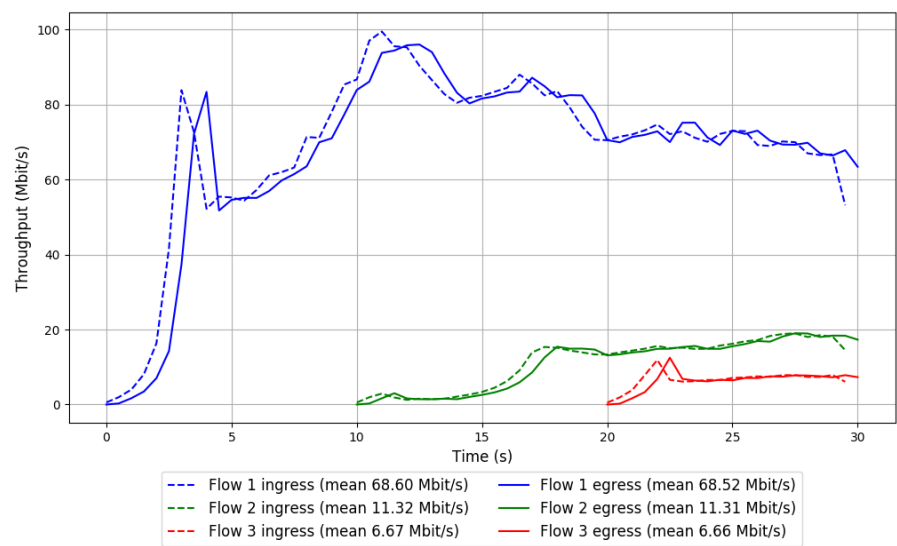


Run 8: Statistics of PCC-Vivace

Start at: 2018-05-30 18:21:45
End at: 2018-05-30 18:22:15
Local clock offset: -2.718 ms
Remote clock offset: 10.323 ms

```
# Below is generated by plot.py at 2018-05-30 19:30:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.24 Mbit/s
95th percentile per-packet one-way delay: 107.365 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 68.52 Mbit/s
95th percentile per-packet one-way delay: 107.957 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 11.31 Mbit/s
95th percentile per-packet one-way delay: 103.915 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 6.66 Mbit/s
95th percentile per-packet one-way delay: 101.188 ms
Loss rate: 0.00%
```

Run 8: Report of PCC-Vivace — Data Link

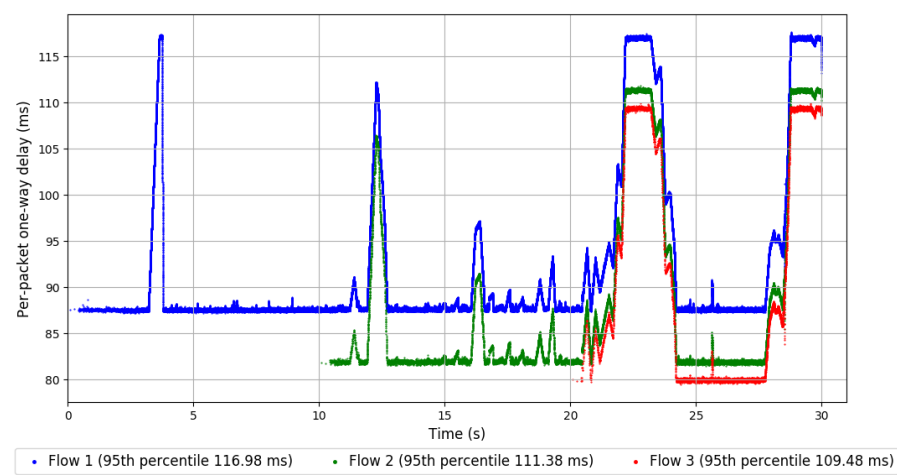
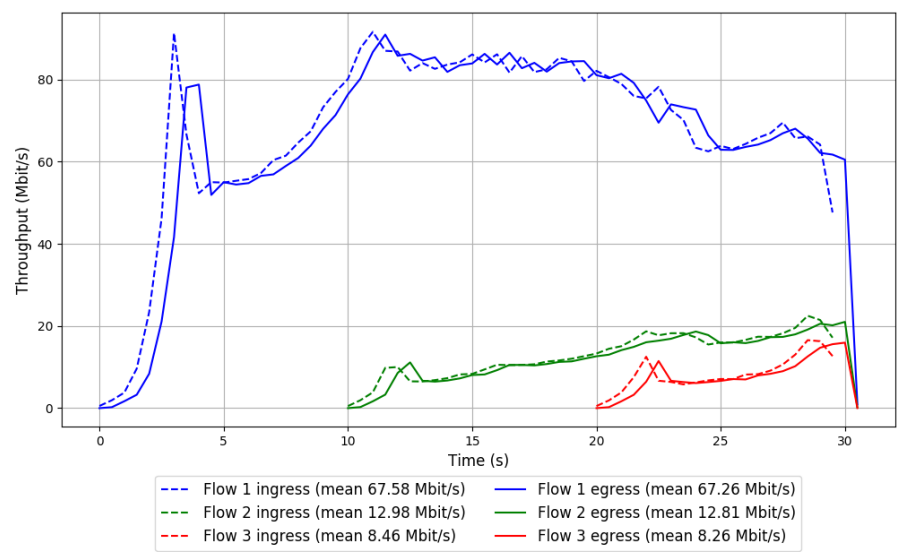


Run 9: Statistics of PCC-Vivace

Start at: 2018-05-30 18:41:52
End at: 2018-05-30 18:42:22
Local clock offset: -4.879 ms
Remote clock offset: 11.406 ms

Below is generated by plot.py at 2018-05-30 19:30:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.52 Mbit/s
95th percentile per-packet one-way delay: 116.942 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 67.26 Mbit/s
95th percentile per-packet one-way delay: 116.978 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 12.81 Mbit/s
95th percentile per-packet one-way delay: 111.383 ms
Loss rate: 1.19%
-- Flow 3:
Average throughput: 8.26 Mbit/s
95th percentile per-packet one-way delay: 109.477 ms
Loss rate: 2.08%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-05-30 19:01:57

End at: 2018-05-30 19:02:27

Local clock offset: -3.928 ms

Remote clock offset: 6.91 ms

Below is generated by plot.py at 2018-05-30 19:30:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.81 Mbit/s

95th percentile per-packet one-way delay: 105.562 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 71.71 Mbit/s

95th percentile per-packet one-way delay: 106.968 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 7.22 Mbit/s

95th percentile per-packet one-way delay: 102.470 ms

Loss rate: 0.40%

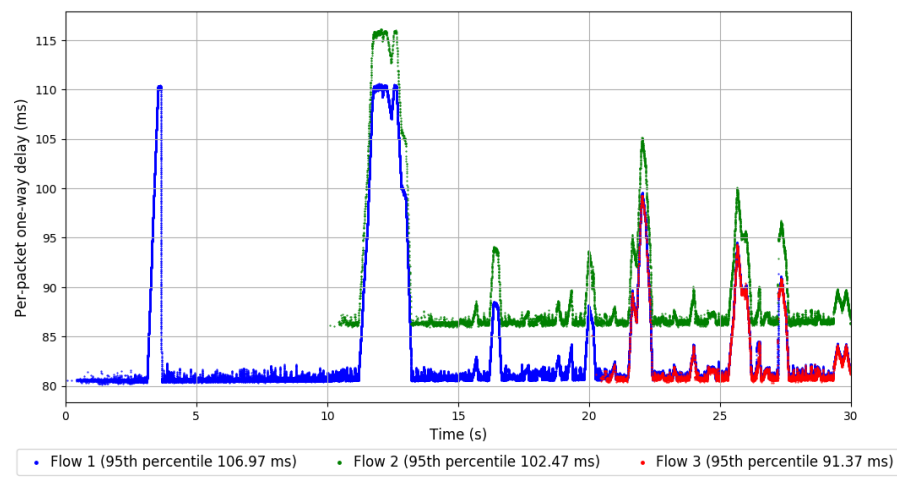
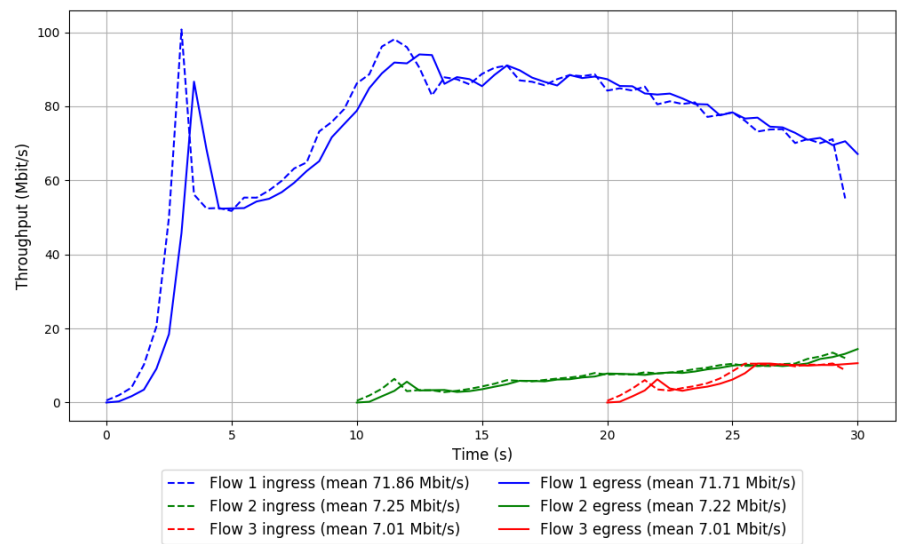
-- Flow 3:

Average throughput: 7.01 Mbit/s

95th percentile per-packet one-way delay: 91.369 ms

Loss rate: 0.03%

Run 10: Report of PCC-Vivace — Data Link

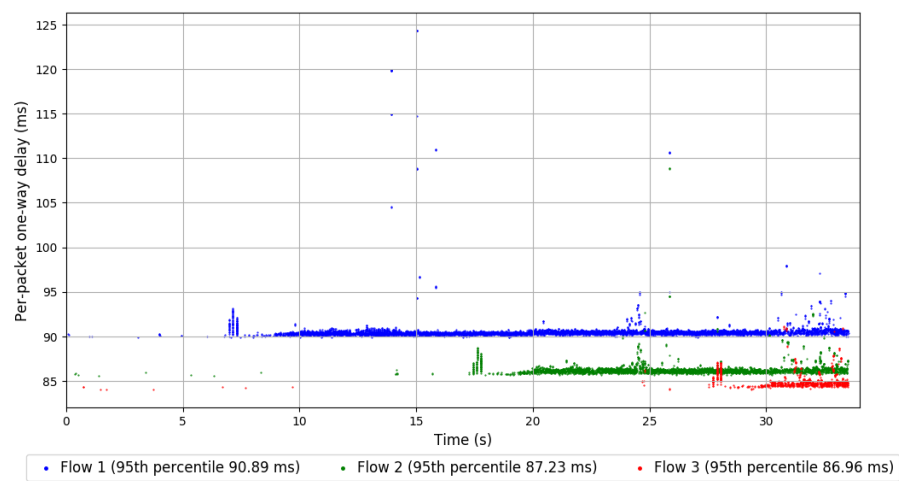
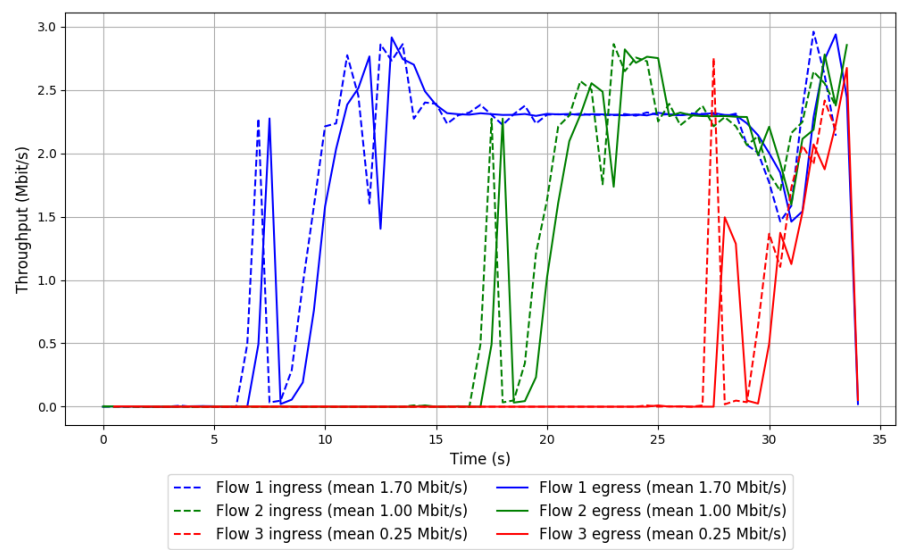


```
Run 1: Statistics of WebRTC media

Start at: 2018-05-30 15:48:33
End at: 2018-05-30 15:49:03
Local clock offset: -1.787 ms
Remote clock offset: 9.66 ms

# Below is generated by plot.py at 2018-05-30 19:30:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.94 Mbit/s
95th percentile per-packet one-way delay: 90.742 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.70 Mbit/s
95th percentile per-packet one-way delay: 90.889 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.00 Mbit/s
95th percentile per-packet one-way delay: 87.227 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 86.956 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-05-30 16:08:39

End at: 2018-05-30 16:09:09

Local clock offset: -1.876 ms

Remote clock offset: 8.849 ms

Below is generated by plot.py at 2018-05-30 19:30:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.95 Mbit/s

95th percentile per-packet one-way delay: 89.424 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.66 Mbit/s

95th percentile per-packet one-way delay: 85.657 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 89.928 ms

Loss rate: 0.00%

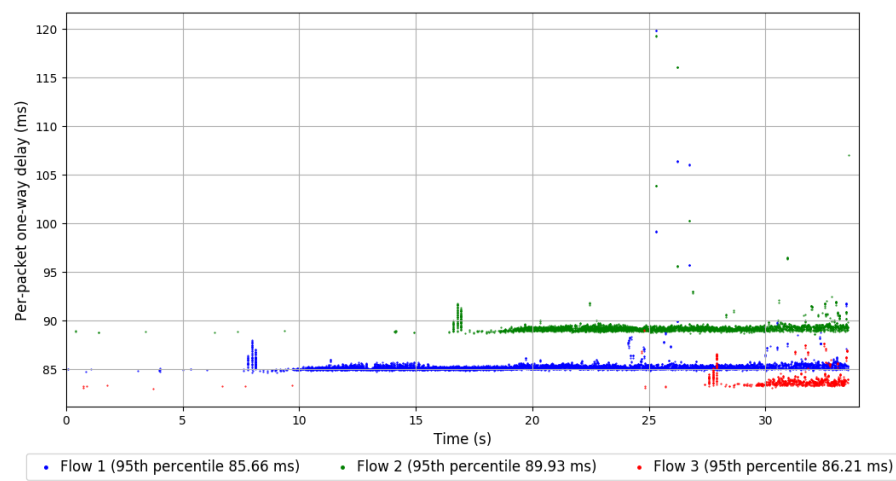
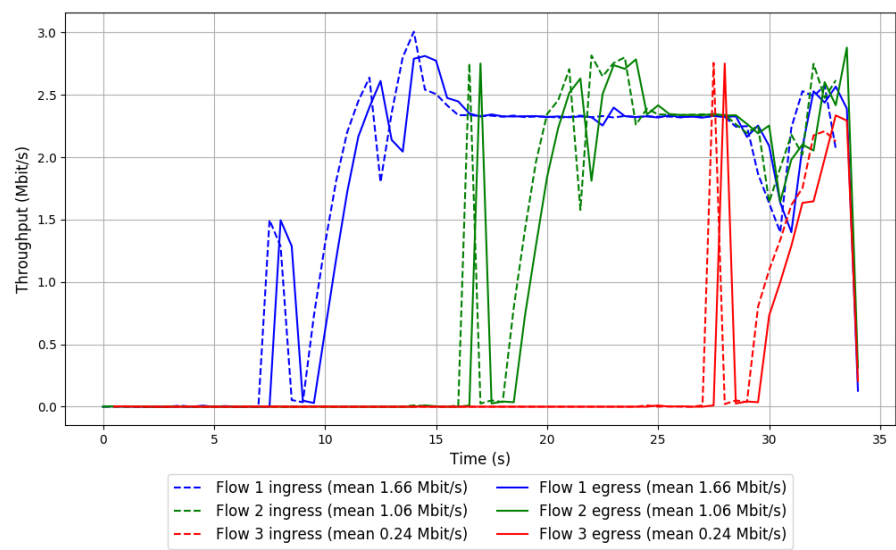
-- Flow 3:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 86.214 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-05-30 16:28:43

End at: 2018-05-30 16:29:13

Local clock offset: -2.358 ms

Remote clock offset: 4.689 ms

Below is generated by plot.py at 2018-05-30 19:30:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.88 Mbit/s

95th percentile per-packet one-way delay: 81.804 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.64 Mbit/s

95th percentile per-packet one-way delay: 80.005 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.04 Mbit/s

95th percentile per-packet one-way delay: 82.441 ms

Loss rate: 0.00%

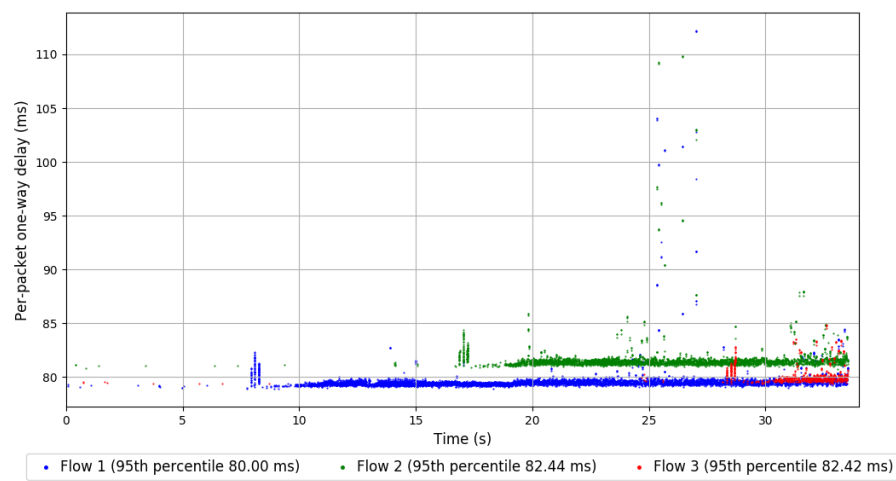
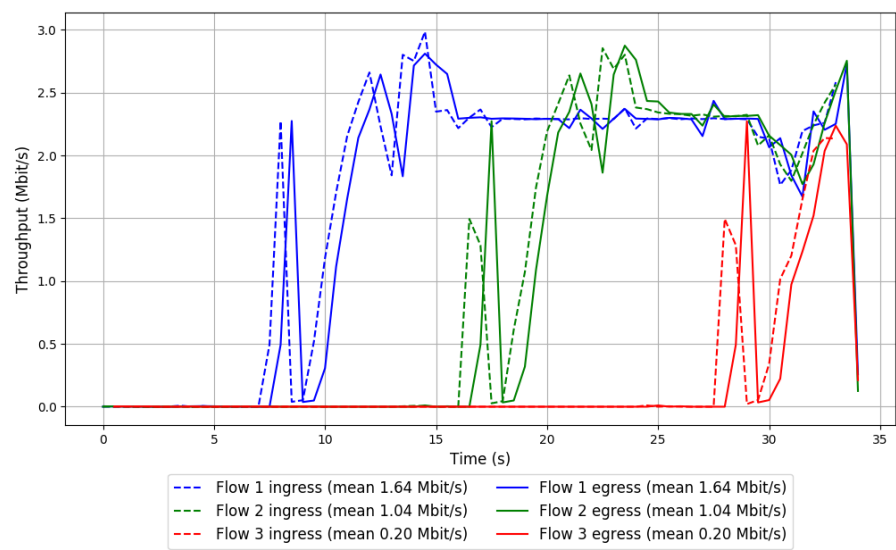
-- Flow 3:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 82.416 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-05-30 16:49:05

End at: 2018-05-30 16:49:35

Local clock offset: -1.203 ms

Remote clock offset: 3.757 ms

Below is generated by plot.py at 2018-05-30 19:30:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.03 Mbit/s

95th percentile per-packet one-way delay: 80.674 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.73 Mbit/s

95th percentile per-packet one-way delay: 80.271 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.04 Mbit/s

95th percentile per-packet one-way delay: 79.456 ms

Loss rate: 0.00%

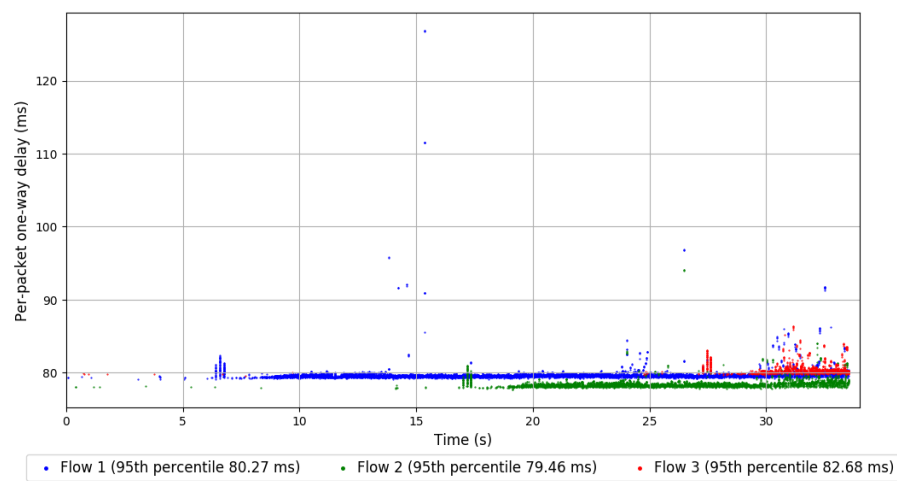
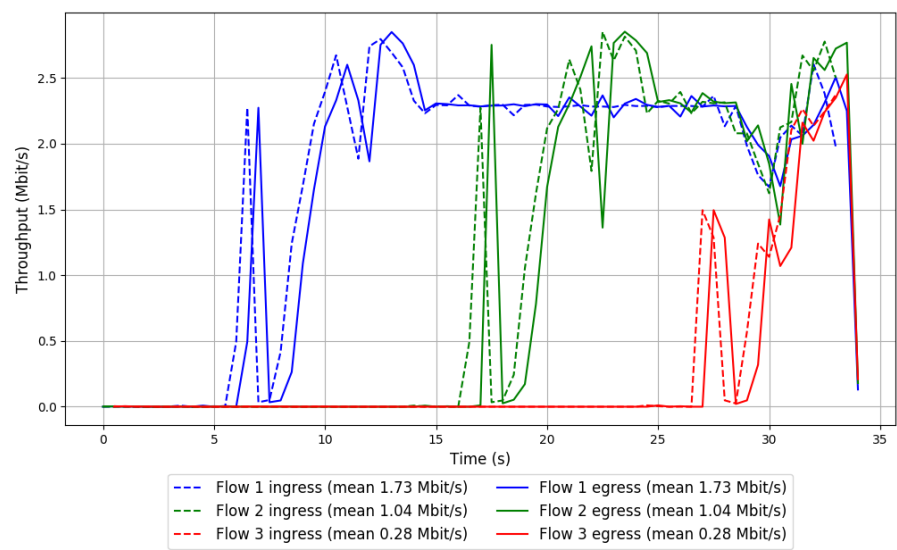
-- Flow 3:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 82.676 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-05-30 17:09:18

End at: 2018-05-30 17:09:48

Local clock offset: -3.01 ms

Remote clock offset: 3.875 ms

Below is generated by plot.py at 2018-05-30 19:30:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.09 Mbit/s

95th percentile per-packet one-way delay: 86.132 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 86.153 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.04 Mbit/s

95th percentile per-packet one-way delay: 86.270 ms

Loss rate: 0.00%

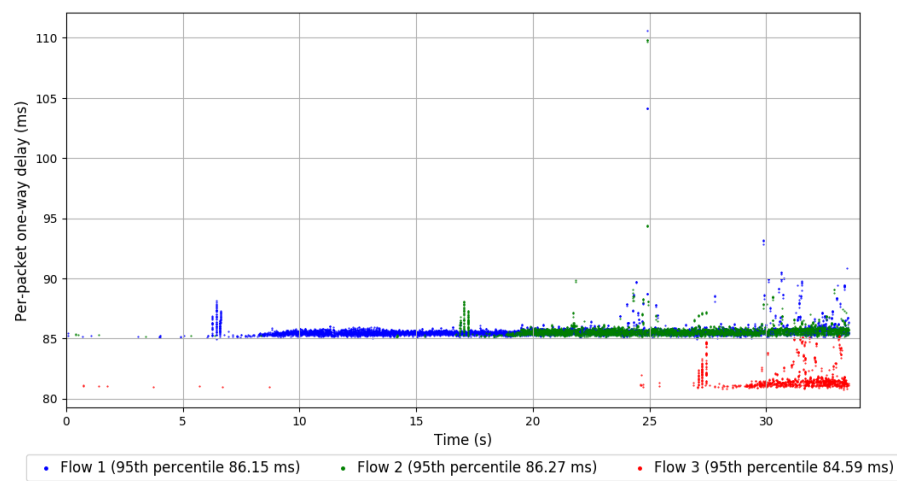
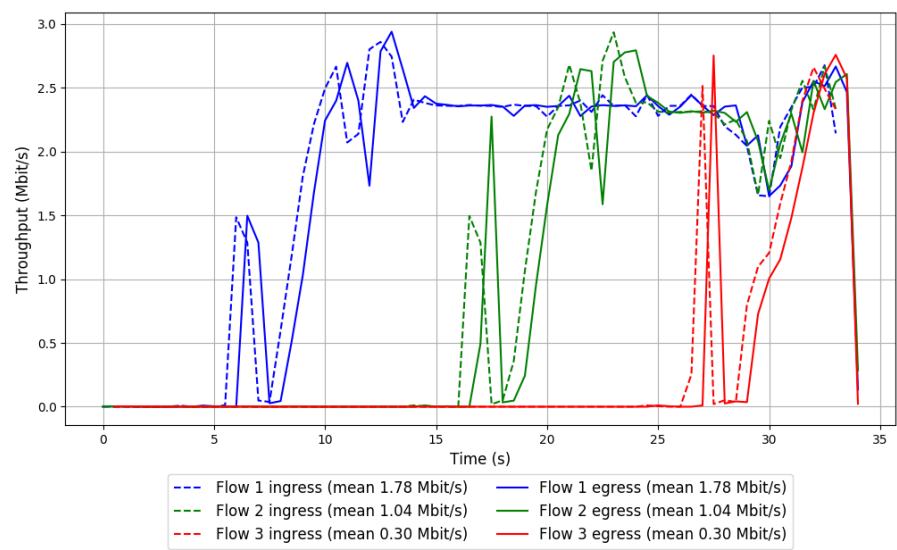
-- Flow 3:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 84.592 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-05-30 17:29:18

End at: 2018-05-30 17:29:48

Local clock offset: -3.886 ms

Remote clock offset: 4.611 ms

Below is generated by plot.py at 2018-05-30 19:30:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.03 Mbit/s

95th percentile per-packet one-way delay: 83.499 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.73 Mbit/s

95th percentile per-packet one-way delay: 83.647 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.05 Mbit/s

95th percentile per-packet one-way delay: 82.390 ms

Loss rate: 0.00%

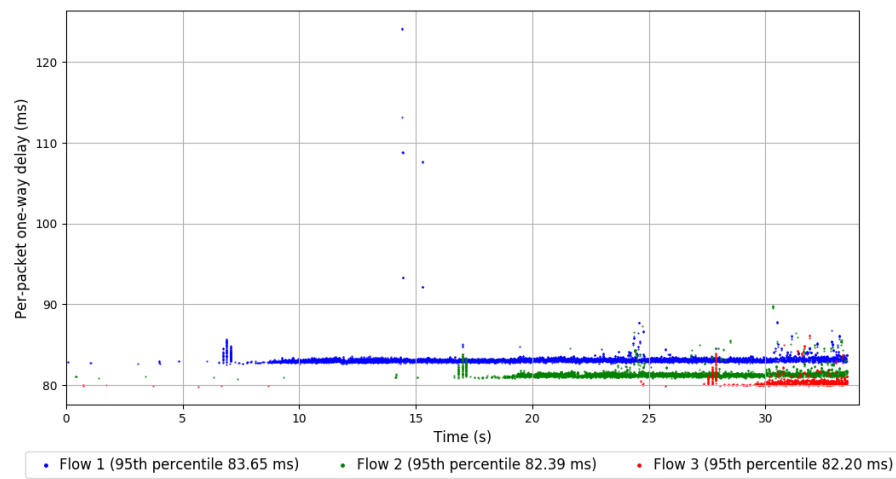
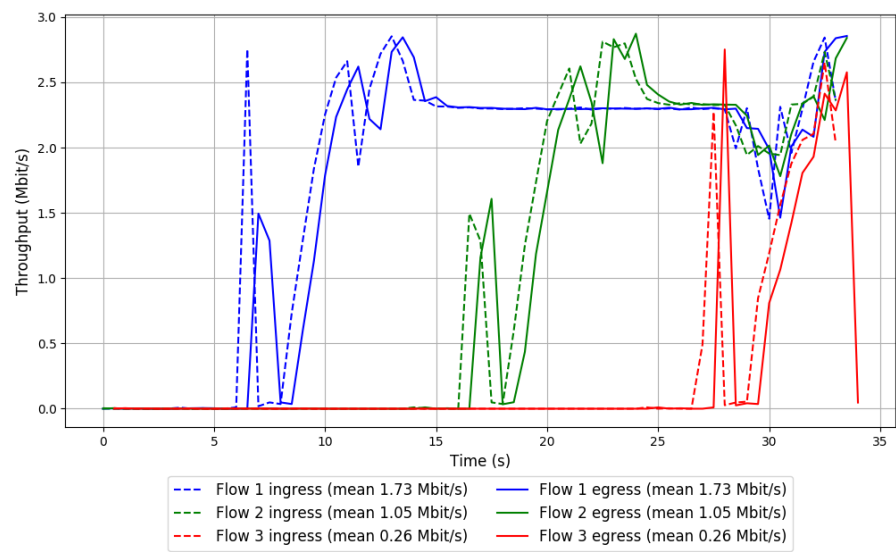
-- Flow 3:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 82.201 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-05-30 17:49:21

End at: 2018-05-30 17:49:51

Local clock offset: -3.736 ms

Remote clock offset: 4.941 ms

Below is generated by plot.py at 2018-05-30 19:30:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.02 Mbit/s

95th percentile per-packet one-way delay: 81.708 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 79.965 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.03 Mbit/s

95th percentile per-packet one-way delay: 82.401 ms

Loss rate: 0.00%

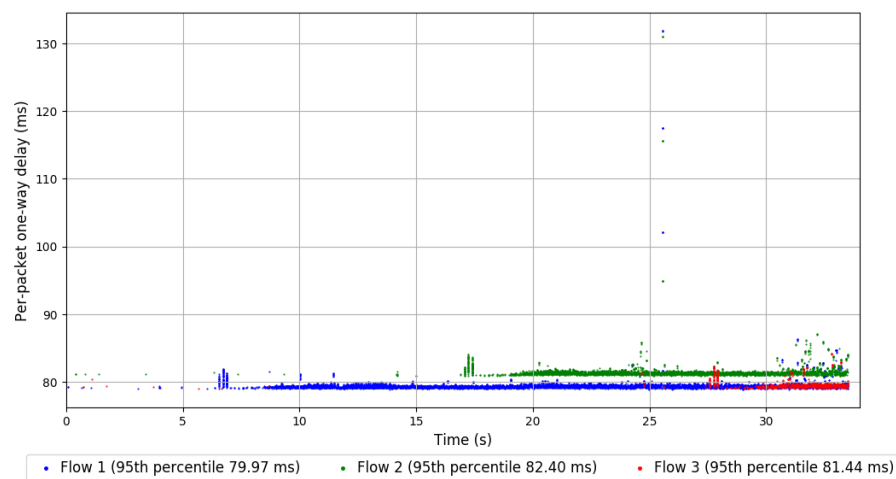
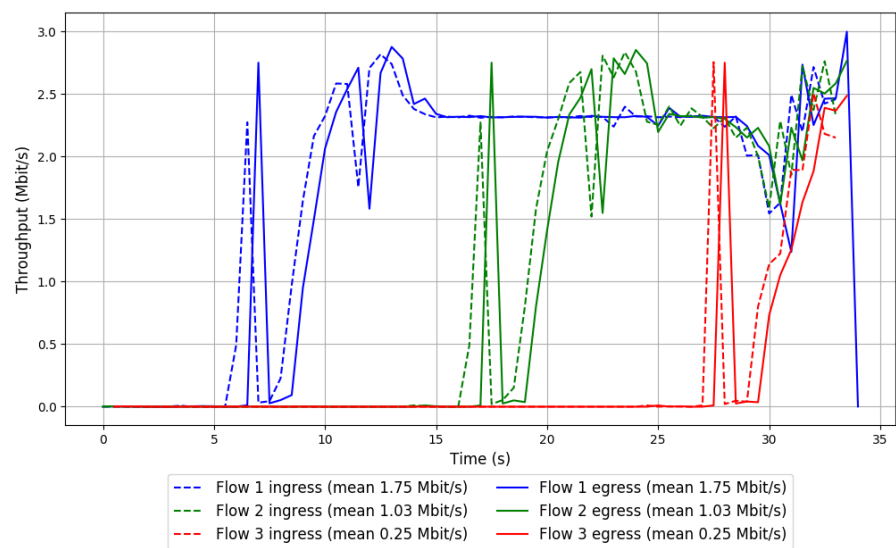
-- Flow 3:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 81.436 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

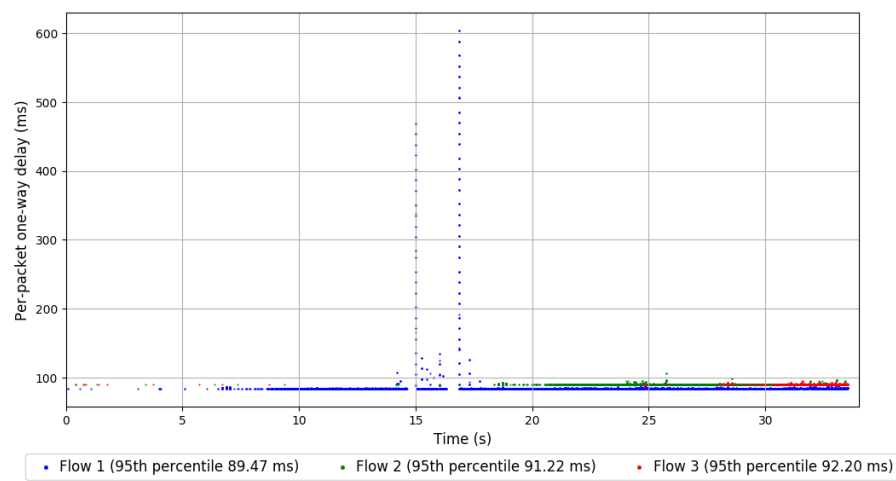
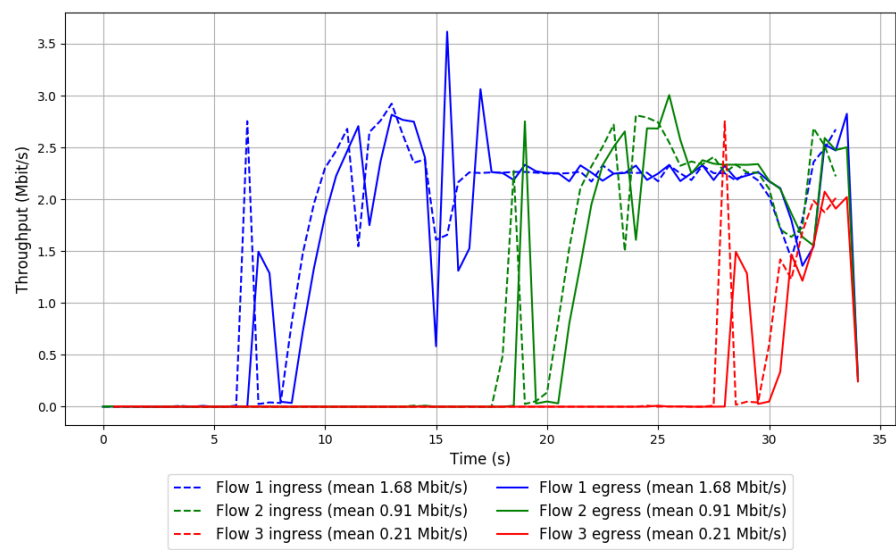


Run 8: Statistics of WebRTC media

Start at: 2018-05-30 18:09:23
End at: 2018-05-30 18:09:53
Local clock offset: -2.424 ms
Remote clock offset: 13.455 ms

Below is generated by plot.py at 2018-05-30 19:30:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.79 Mbit/s
95th percentile per-packet one-way delay: 91.285 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.68 Mbit/s
95th percentile per-packet one-way delay: 89.466 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.91 Mbit/s
95th percentile per-packet one-way delay: 91.217 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 92.204 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-05-30 18:29:29

End at: 2018-05-30 18:29:59

Local clock offset: -3.591 ms

Remote clock offset: 10.85 ms

Below is generated by plot.py at 2018-05-30 19:30:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.94 Mbit/s

95th percentile per-packet one-way delay: 80.645 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.63 Mbit/s

95th percentile per-packet one-way delay: 80.050 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.05 Mbit/s

95th percentile per-packet one-way delay: 80.758 ms

Loss rate: 0.00%

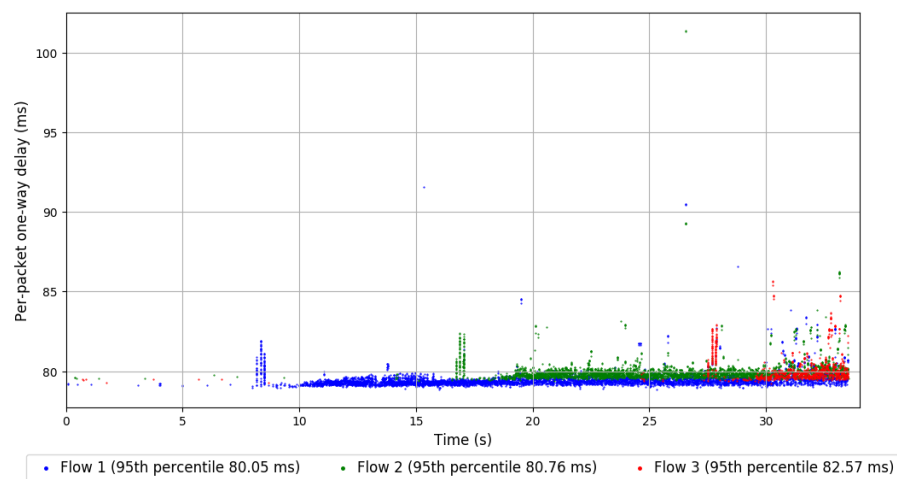
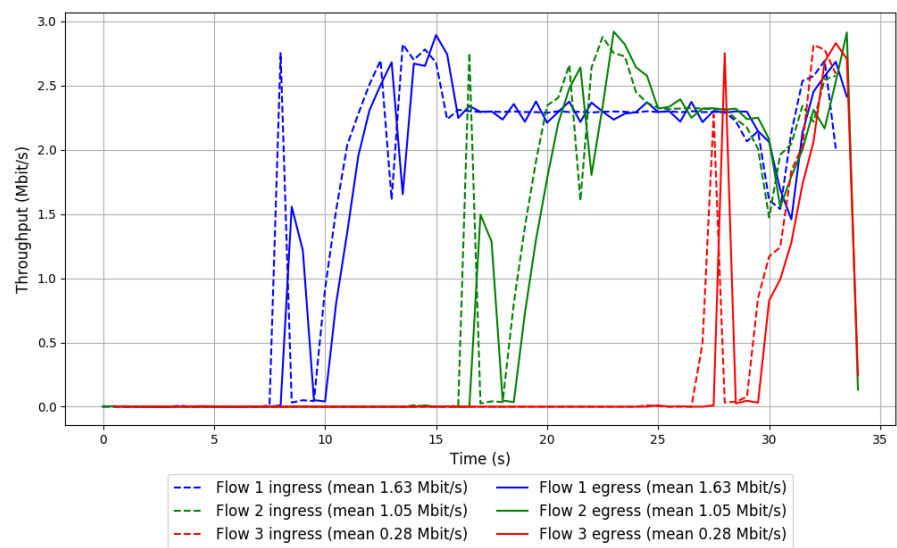
-- Flow 3:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 82.571 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-30 18:49:34
End at: 2018-05-30 18:50:04
Local clock offset: -3.556 ms
Remote clock offset: 15.864 ms

Below is generated by plot.py at 2018-05-30 19:30:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.85 Mbit/s
95th percentile per-packet one-way delay: 87.936 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.68 Mbit/s
95th percentile per-packet one-way delay: 88.154 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 87.895 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 87.590 ms
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

