

Pantheon Report

Generated at 2018-05-22 01:01:22 (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 1 flow.

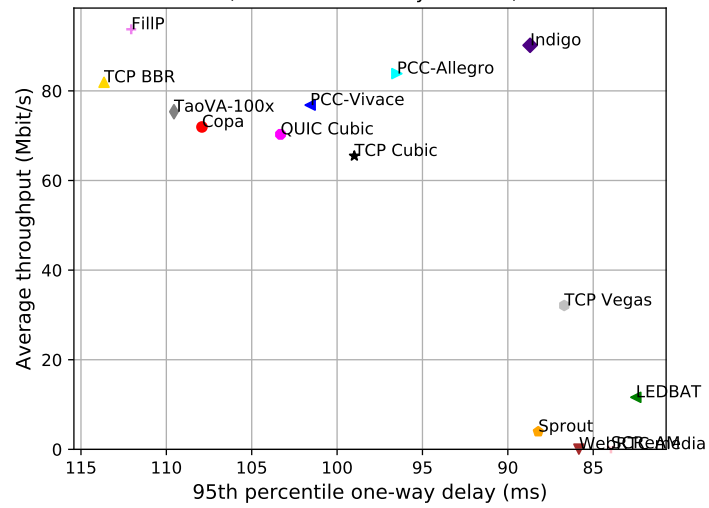
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

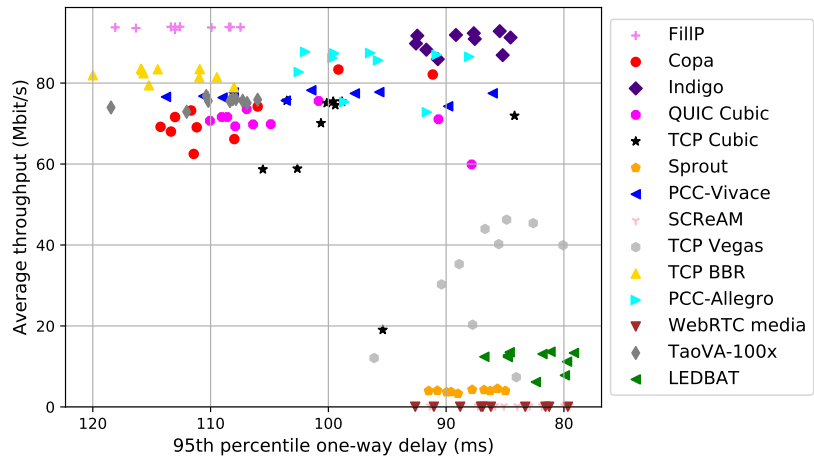
Git summary:

```
branch: master @ 2d1d4407e851ba626e5ca4626a306105793df686
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
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
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 Ethernet to Colombia Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from AWS Brazil 2 Ethernet to Colombia Ethernet, 10 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	81.92	113.65	3.42
Copa	10	71.95	107.92	3.08
TCP Cubic	10	65.48	98.99	0.39
FillP	10	93.75	112.06	7.38
Indigo	10	90.17	88.70	0.98
LEDBAT	10	11.62	82.51	0.01
PCC-Allegro	10	83.86	96.50	1.48
PCC-Expr	0	N/A	N/A	N/A
QUIC Cubic	10	70.30	103.31	0.40
SCReAM	10	0.22	83.96	0.01
Sprout	10	3.96	88.22	0.00
TaoVA-100x	10	75.35	109.55	0.61
TCP Vegas	10	32.10	86.70	0.39
Verus	0	N/A	N/A	N/A
PCC-Vivace	10	76.83	101.58	0.09
WebRTC media	10	0.05	85.84	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-05-21 21:55:49

End at: 2018-05-21 21:56:19

Local clock offset: 33.719 ms

Remote clock offset: 7.52 ms

Below is generated by plot.py at 2018-05-22 00:47:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.18 Mbit/s

95th percentile per-packet one-way delay: 115.822 ms

Loss rate: 3.76%

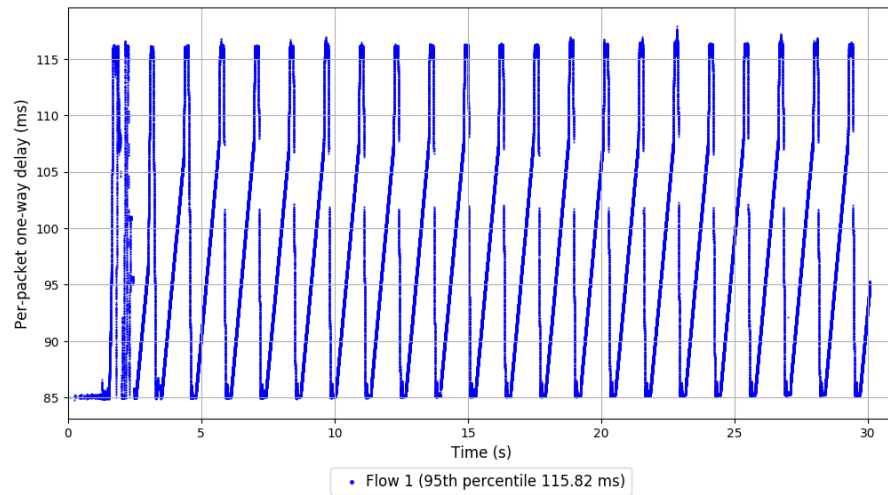
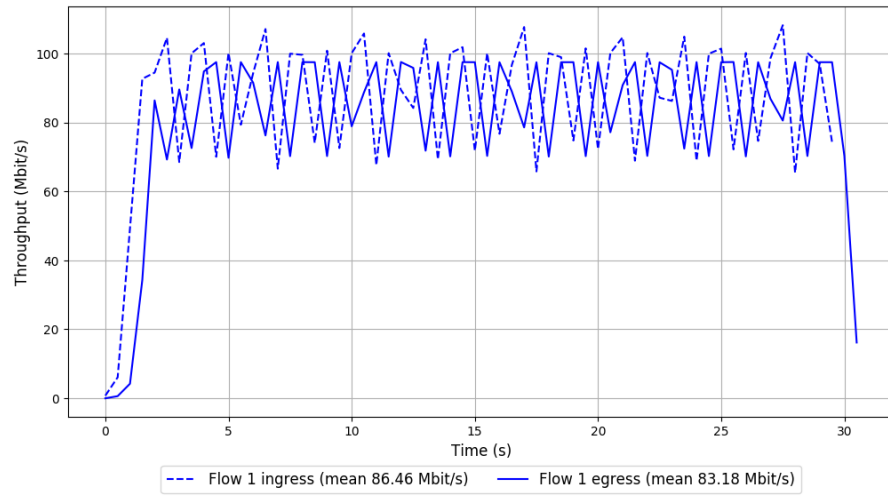
-- Flow 1:

Average throughput: 83.18 Mbit/s

95th percentile per-packet one-way delay: 115.822 ms

Loss rate: 3.76%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-05-21 22:14:18

End at: 2018-05-21 22:14:48

Local clock offset: 1.61 ms

Remote clock offset: 7.242 ms

Below is generated by plot.py at 2018-05-22 00:47:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.44 Mbit/s

95th percentile per-packet one-way delay: 115.237 ms

Loss rate: 2.66%

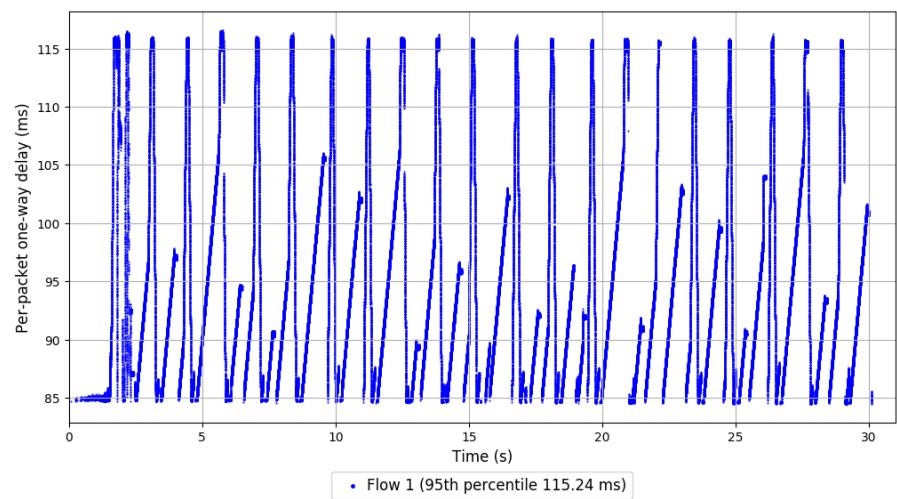
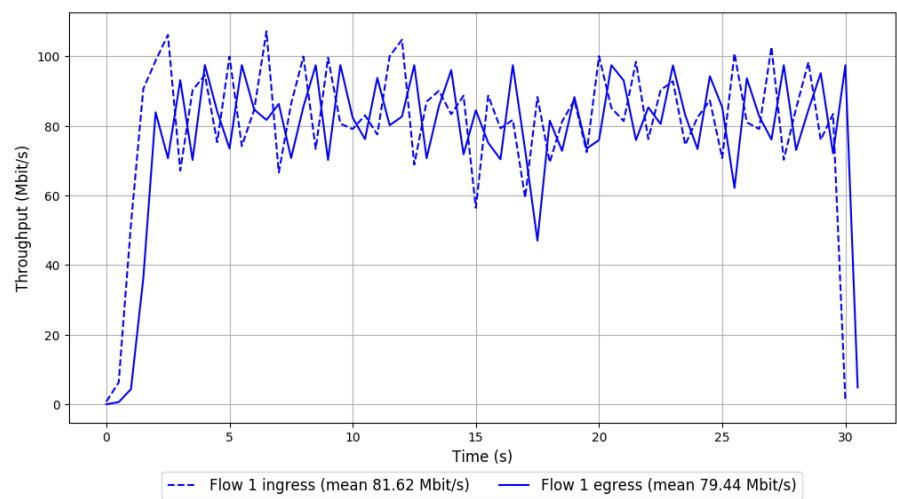
-- Flow 1:

Average throughput: 79.44 Mbit/s

95th percentile per-packet one-way delay: 115.237 ms

Loss rate: 2.66%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-05-21 22:32:48

End at: 2018-05-21 22:33:18

Local clock offset: -3.889 ms

Remote clock offset: 7.878 ms

Below is generated by plot.py at 2018-05-22 00:47:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.53 Mbit/s

95th percentile per-packet one-way delay: 115.903 ms

Loss rate: 3.66%

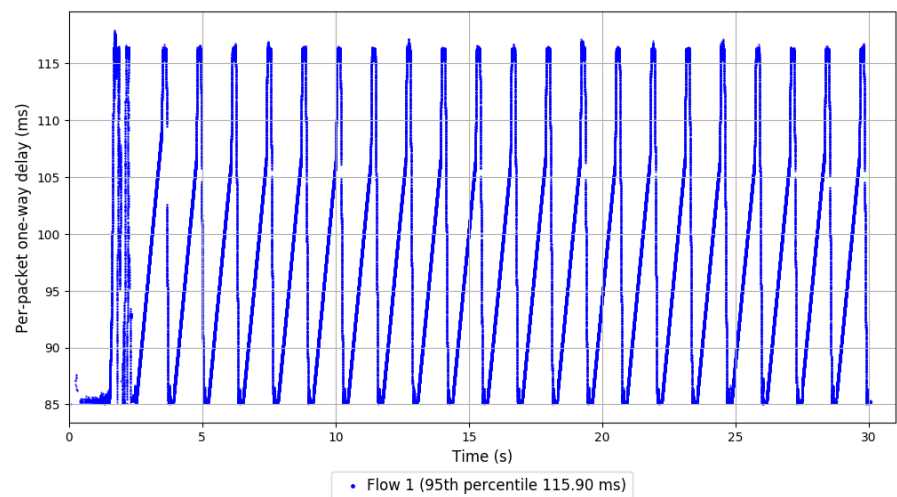
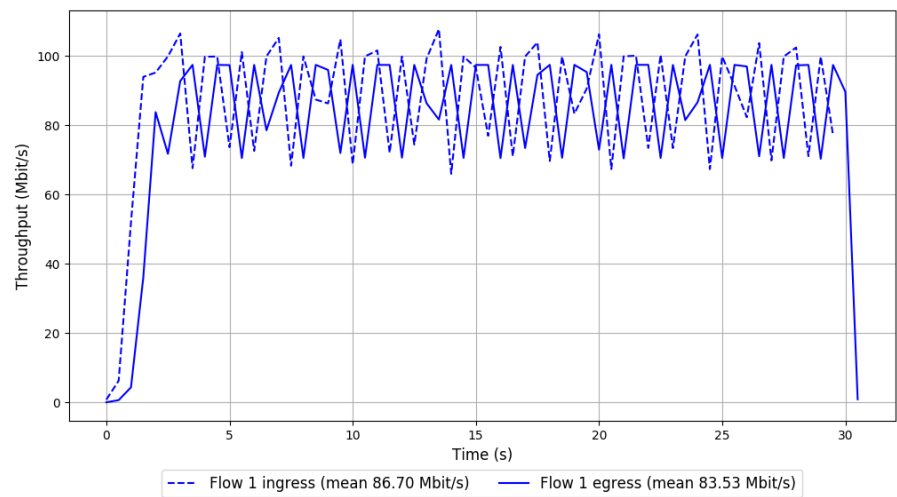
-- Flow 1:

Average throughput: 83.53 Mbit/s

95th percentile per-packet one-way delay: 115.903 ms

Loss rate: 3.66%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-05-21 22:51:18

End at: 2018-05-21 22:51:48

Local clock offset: -5.064 ms

Remote clock offset: 8.185 ms

Below is generated by plot.py at 2018-05-22 00:47:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.42 Mbit/s

95th percentile per-packet one-way delay: 114.487 ms

Loss rate: 3.62%

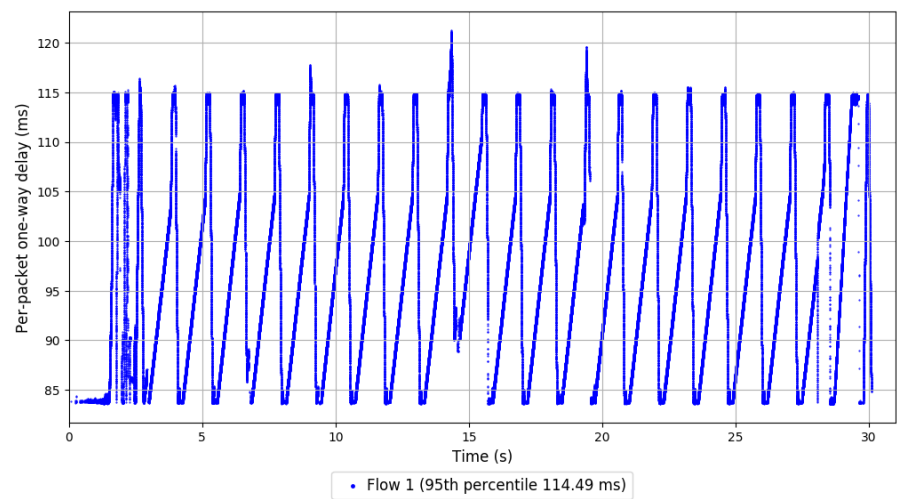
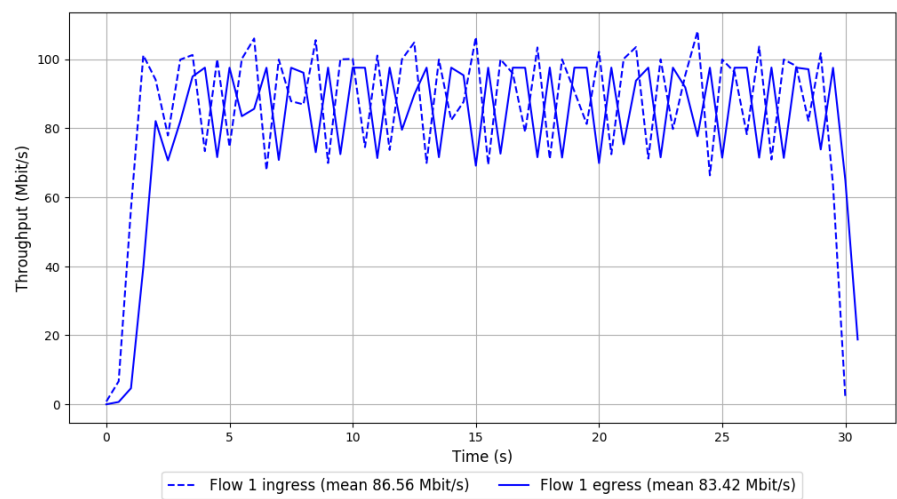
-- Flow 1:

Average throughput: 83.42 Mbit/s

95th percentile per-packet one-way delay: 114.487 ms

Loss rate: 3.62%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-05-21 23:09:53

End at: 2018-05-21 23:10:23

Local clock offset: -1.877 ms

Remote clock offset: 4.139 ms

Below is generated by plot.py at 2018-05-22 00:47:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.96 Mbit/s

95th percentile per-packet one-way delay: 108.012 ms

Loss rate: 2.34%

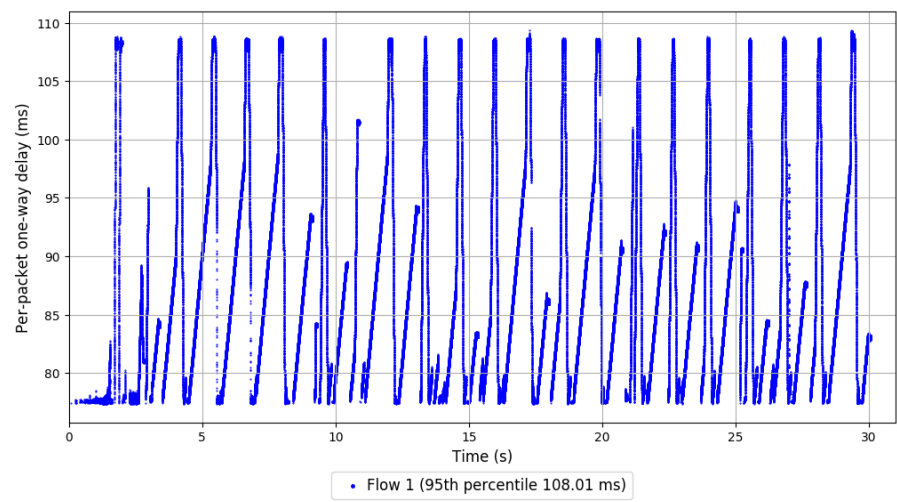
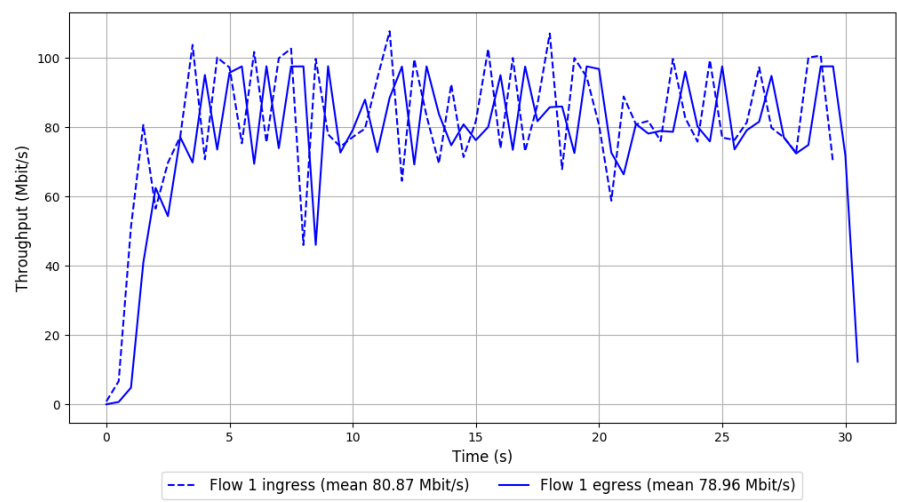
-- Flow 1:

Average throughput: 78.96 Mbit/s

95th percentile per-packet one-way delay: 108.012 ms

Loss rate: 2.34%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-05-21 23:28:21

End at: 2018-05-21 23:28:51

Local clock offset: -2.647 ms

Remote clock offset: 3.224 ms

Below is generated by plot.py at 2018-05-22 00:47:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.41 Mbit/s

95th percentile per-packet one-way delay: 110.962 ms

Loss rate: 3.67%

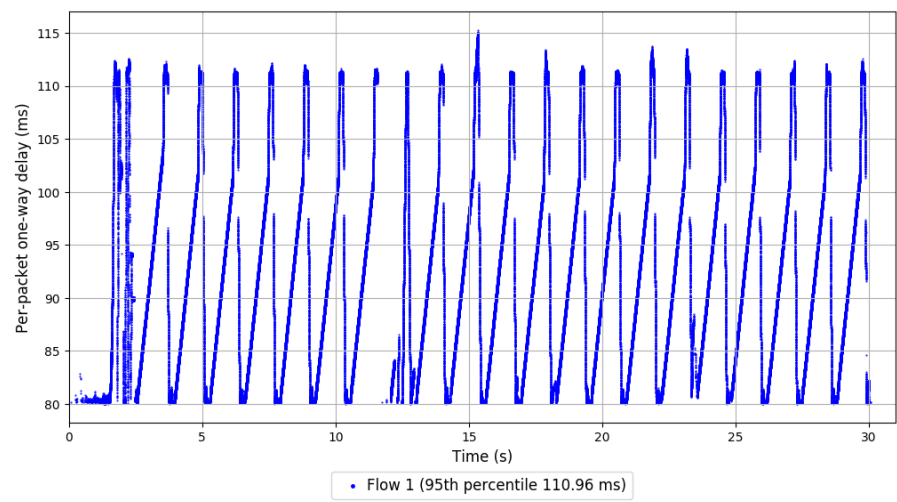
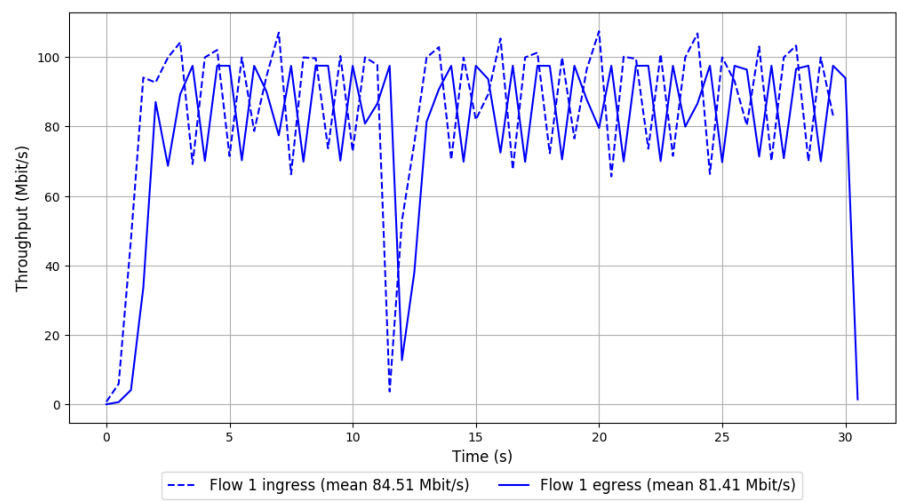
-- Flow 1:

Average throughput: 81.41 Mbit/s

95th percentile per-packet one-way delay: 110.962 ms

Loss rate: 3.67%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-05-21 23:46:51

End at: 2018-05-21 23:47:21

Local clock offset: -3.032 ms

Remote clock offset: 3.779 ms

Below is generated by plot.py at 2018-05-22 00:47:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.46 Mbit/s

95th percentile per-packet one-way delay: 110.924 ms

Loss rate: 3.68%

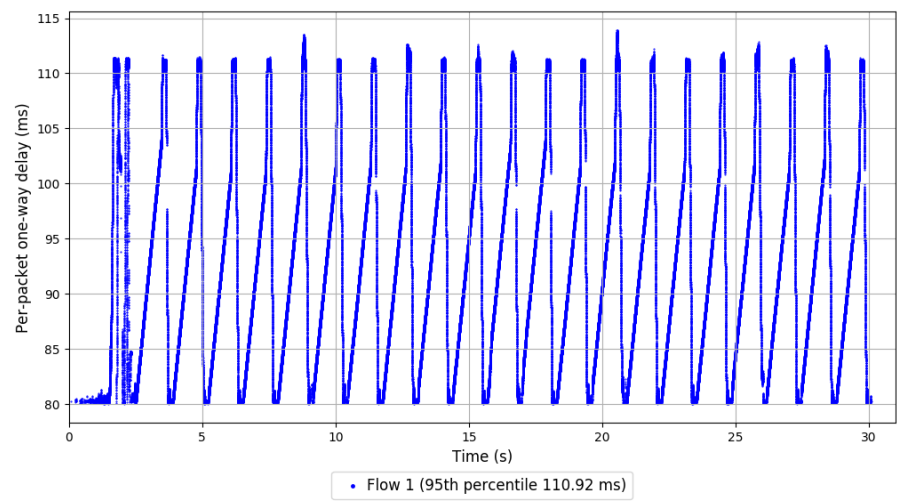
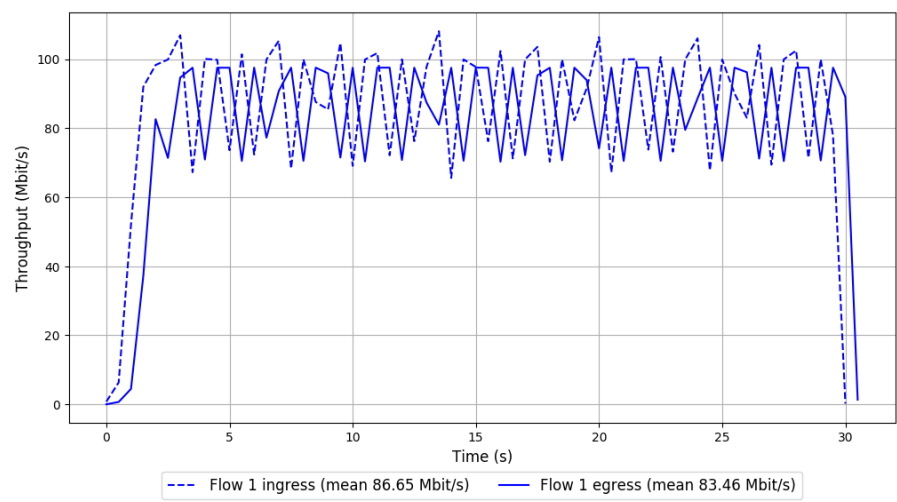
-- Flow 1:

Average throughput: 83.46 Mbit/s

95th percentile per-packet one-way delay: 110.924 ms

Loss rate: 3.68%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-05-22 00:05:19

End at: 2018-05-22 00:05:49

Local clock offset: -6.183 ms

Remote clock offset: 3.915 ms

Below is generated by plot.py at 2018-05-22 00:47:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.42 Mbit/s

95th percentile per-packet one-way delay: 115.690 ms

Loss rate: 3.75%

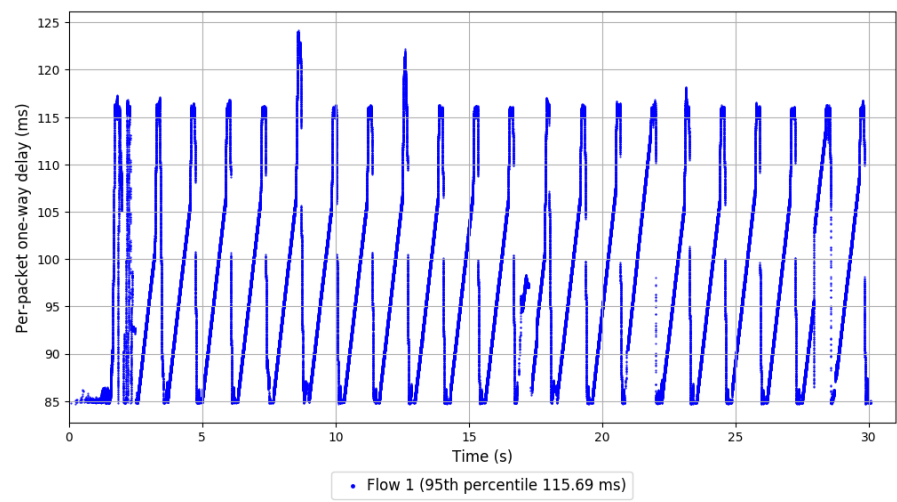
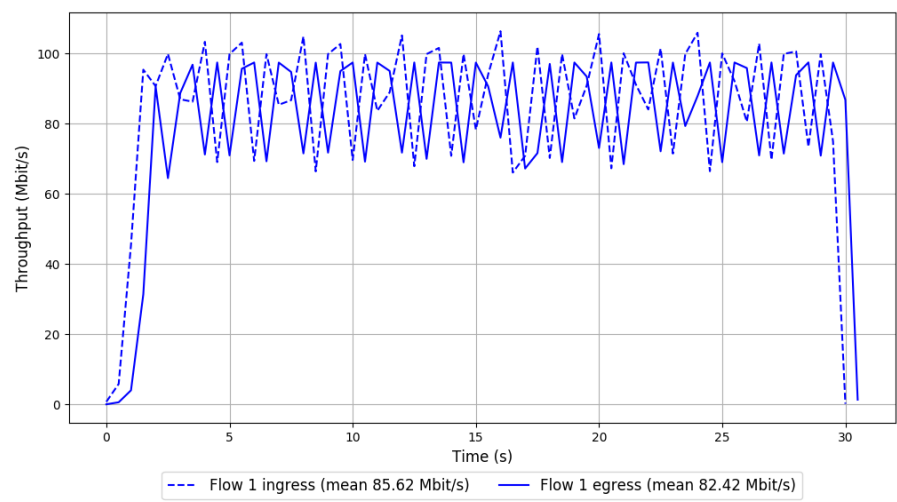
-- Flow 1:

Average throughput: 82.42 Mbit/s

95th percentile per-packet one-way delay: 115.690 ms

Loss rate: 3.75%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-05-22 00:23:49

End at: 2018-05-22 00:24:19

Local clock offset: -8.831 ms

Remote clock offset: 3.927 ms

Below is generated by plot.py at 2018-05-22 00:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.45 Mbit/s

95th percentile per-packet one-way delay: 109.469 ms

Loss rate: 3.64%

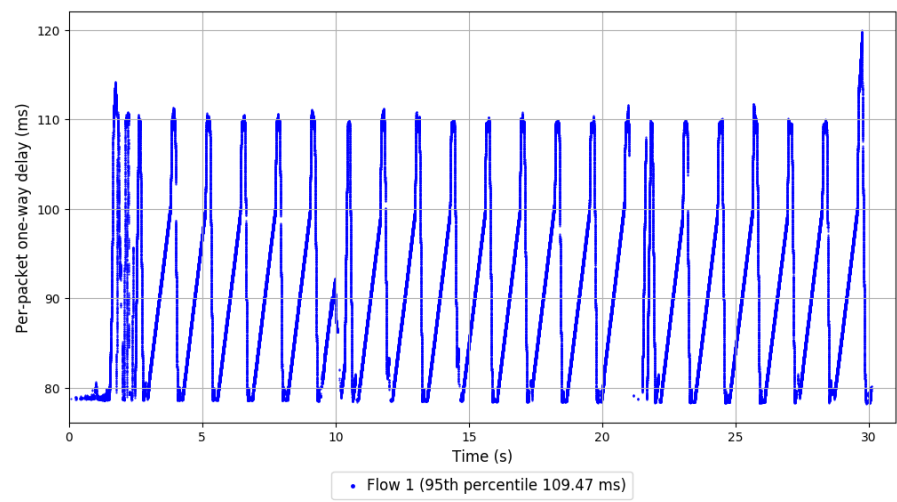
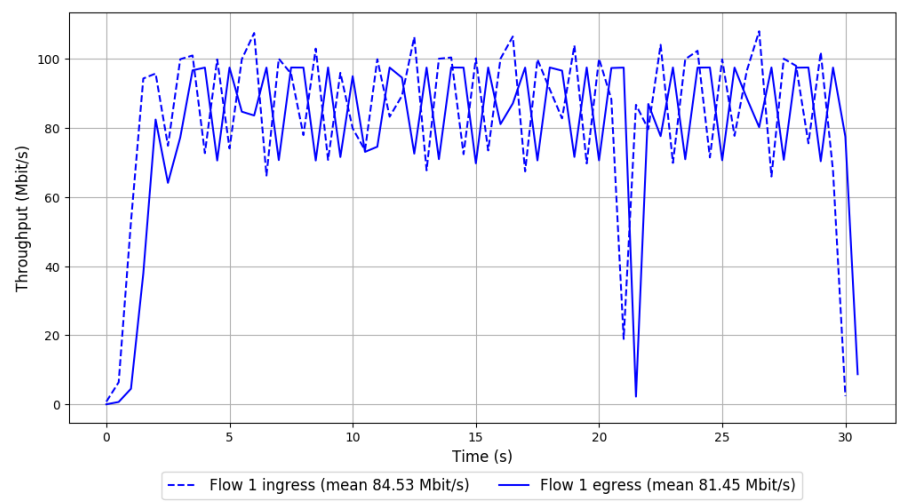
-- Flow 1:

Average throughput: 81.45 Mbit/s

95th percentile per-packet one-way delay: 109.469 ms

Loss rate: 3.64%

Run 9: Report of TCP BBR — Data Link

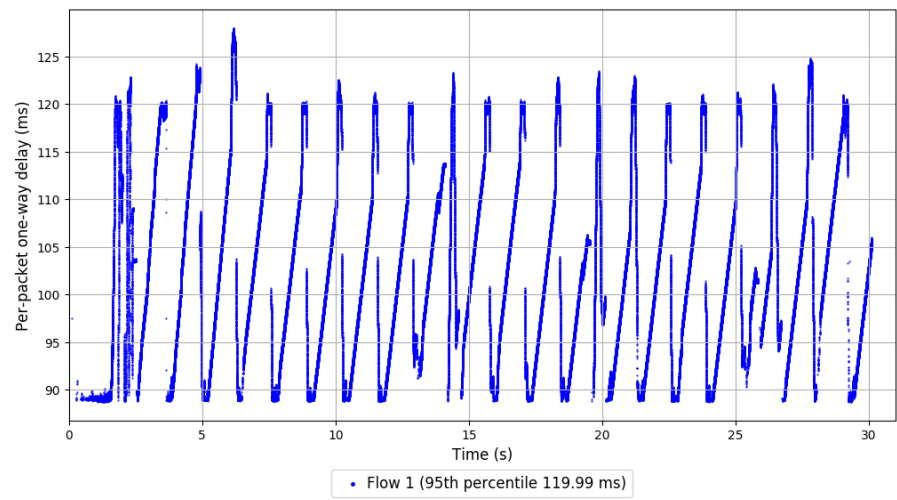
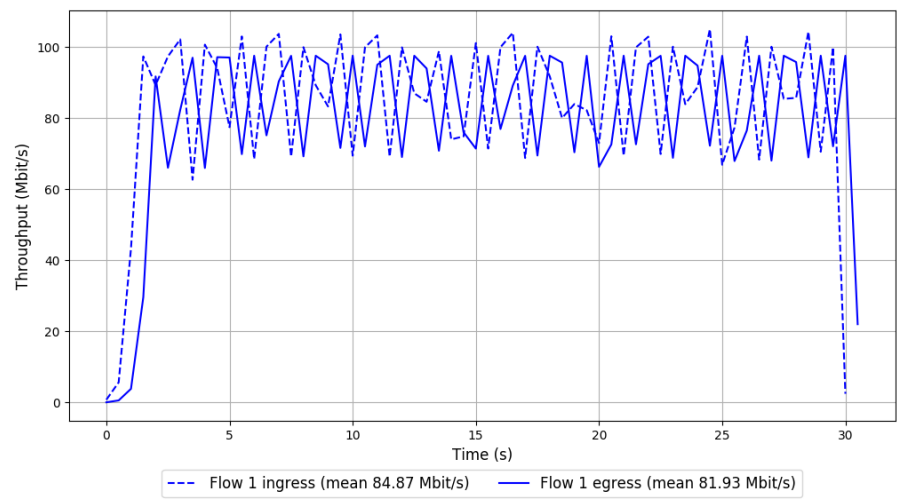


Run 10: Statistics of TCP BBR

Start at: 2018-05-22 00:42:17
End at: 2018-05-22 00:42:47
Local clock offset: -3.629 ms
Remote clock offset: 16.319 ms

Below is generated by plot.py at 2018-05-22 00:48:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 81.93 Mbit/s
95th percentile per-packet one-way delay: 119.990 ms
Loss rate: 3.45%
-- Flow 1:
Average throughput: 81.93 Mbit/s
95th percentile per-packet one-way delay: 119.990 ms
Loss rate: 3.45%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-05-21 21:45:20

End at: 2018-05-21 21:45:50

Local clock offset: 26.913 ms

Remote clock offset: 6.808 ms

Below is generated by plot.py at 2018-05-22 00:48:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.23 Mbit/s

95th percentile per-packet one-way delay: 111.652 ms

Loss rate: 2.74%

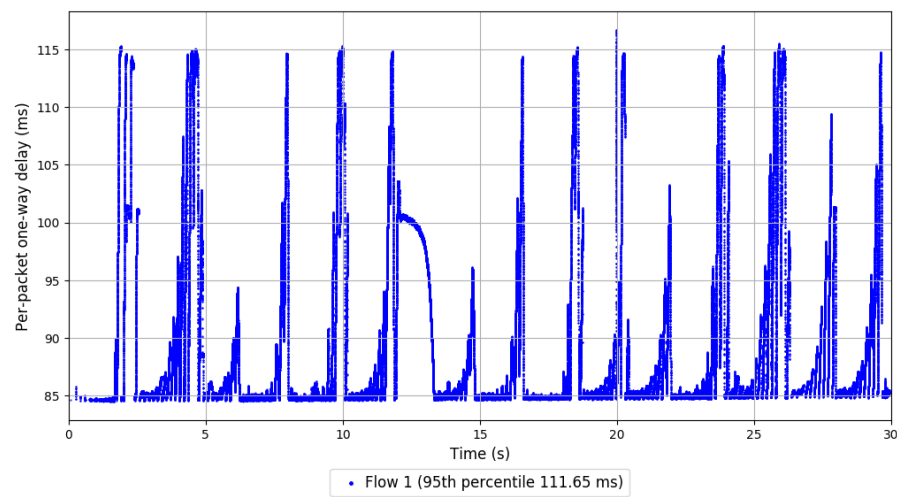
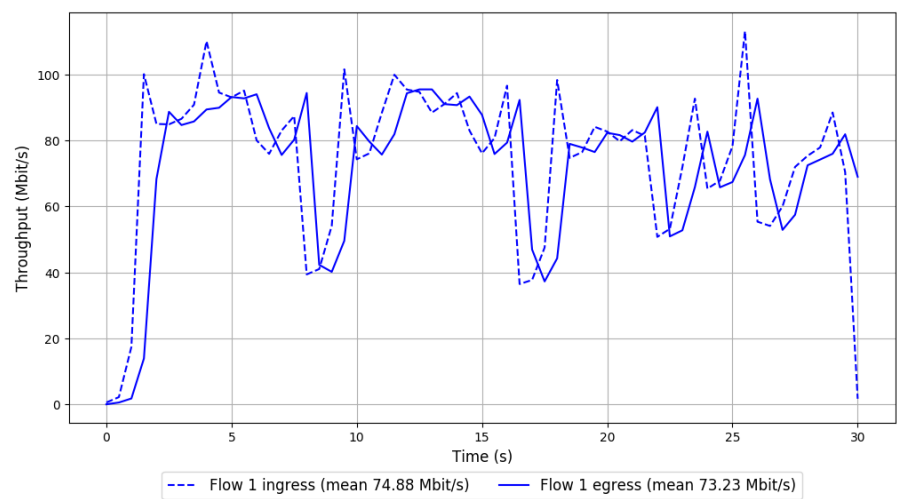
-- Flow 1:

Average throughput: 73.23 Mbit/s

95th percentile per-packet one-way delay: 111.652 ms

Loss rate: 2.74%

Run 1: Report of Copa — Data Link

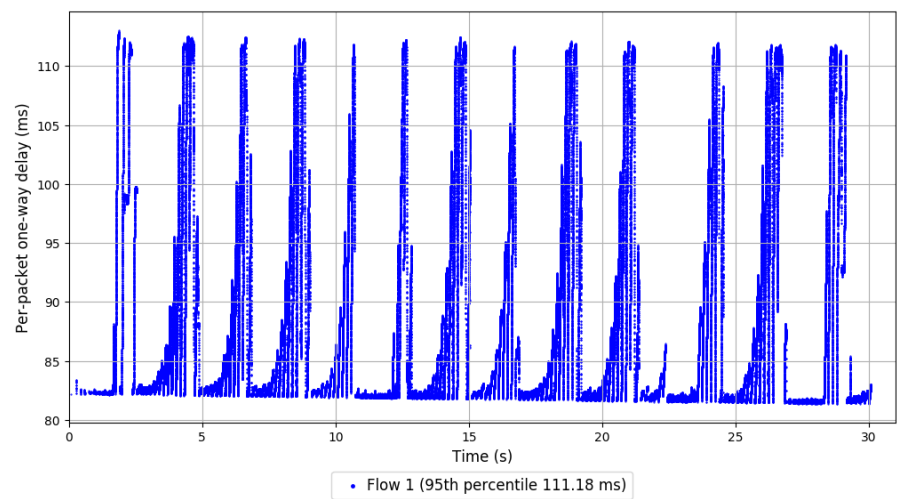
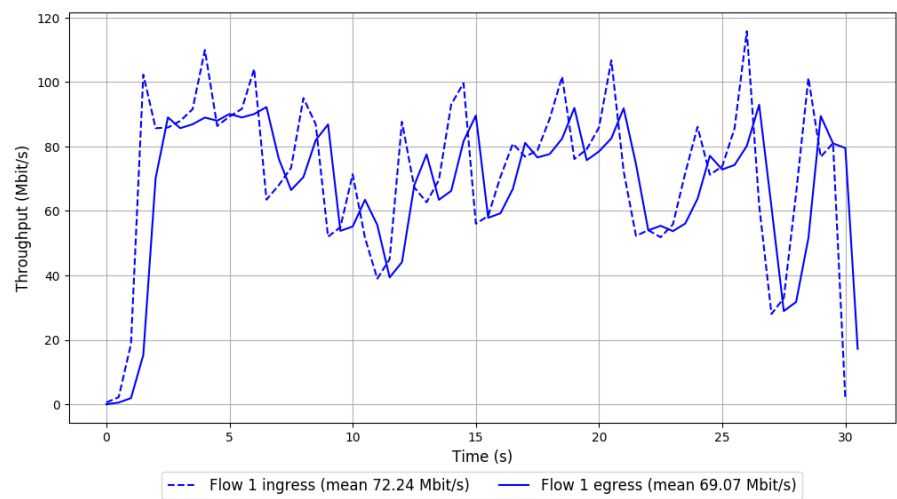


Run 2: Statistics of Copa

Start at: 2018-05-21 22:03:48
End at: 2018-05-21 22:04:18
Local clock offset: 12.73 ms
Remote clock offset: 6.678 ms

Below is generated by plot.py at 2018-05-22 00:48:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 69.07 Mbit/s
95th percentile per-packet one-way delay: 111.176 ms
Loss rate: 4.39%
-- Flow 1:
Average throughput: 69.07 Mbit/s
95th percentile per-packet one-way delay: 111.176 ms
Loss rate: 4.39%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-05-21 22:22:17

End at: 2018-05-21 22:22:47

Local clock offset: -0.798 ms

Remote clock offset: 7.21 ms

Below is generated by plot.py at 2018-05-22 00:48:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.02 Mbit/s

95th percentile per-packet one-way delay: 113.364 ms

Loss rate: 5.56%

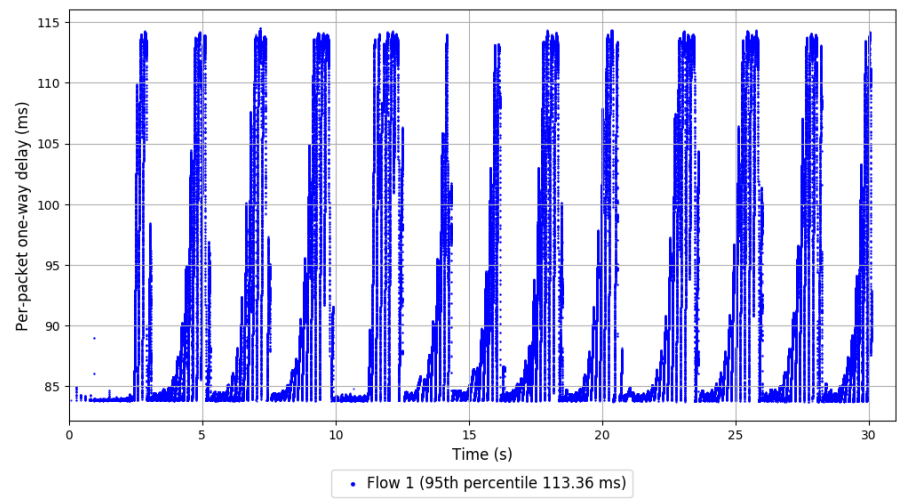
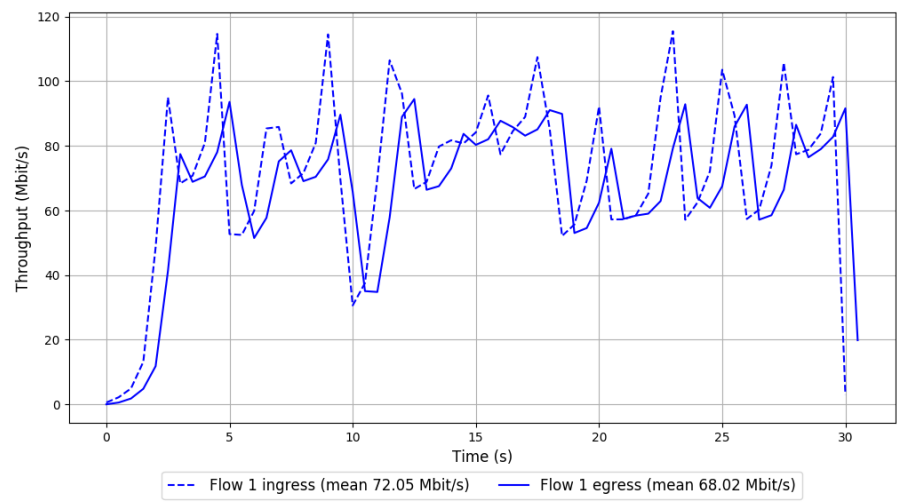
-- Flow 1:

Average throughput: 68.02 Mbit/s

95th percentile per-packet one-way delay: 113.364 ms

Loss rate: 5.56%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-05-21 22:40:47

End at: 2018-05-21 22:41:17

Local clock offset: -3.628 ms

Remote clock offset: 7.137 ms

Below is generated by plot.py at 2018-05-22 00:48:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.61 Mbit/s

95th percentile per-packet one-way delay: 113.017 ms

Loss rate: 3.00%

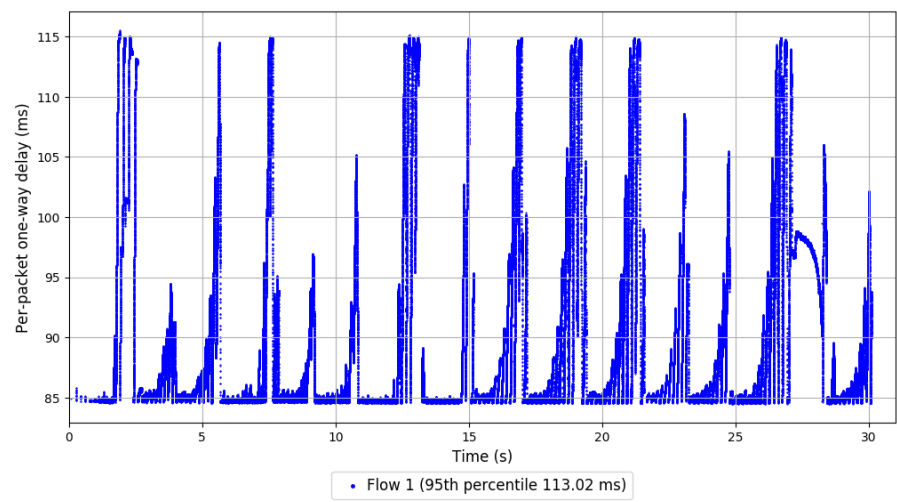
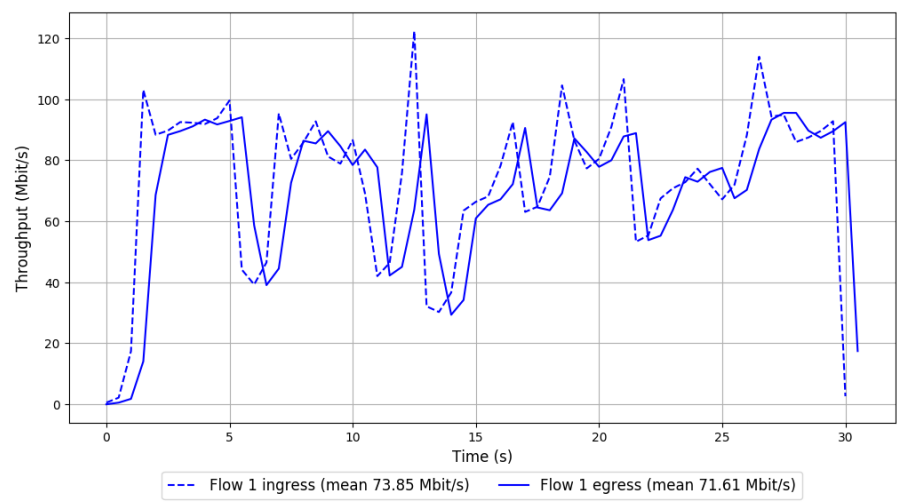
-- Flow 1:

Average throughput: 71.61 Mbit/s

95th percentile per-packet one-way delay: 113.017 ms

Loss rate: 3.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-05-21 22:59:17

End at: 2018-05-21 22:59:47

Local clock offset: -3.863 ms

Remote clock offset: 3.849 ms

Below is generated by plot.py at 2018-05-22 00:48:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.16 Mbit/s

95th percentile per-packet one-way delay: 107.983 ms

Loss rate: 5.46%

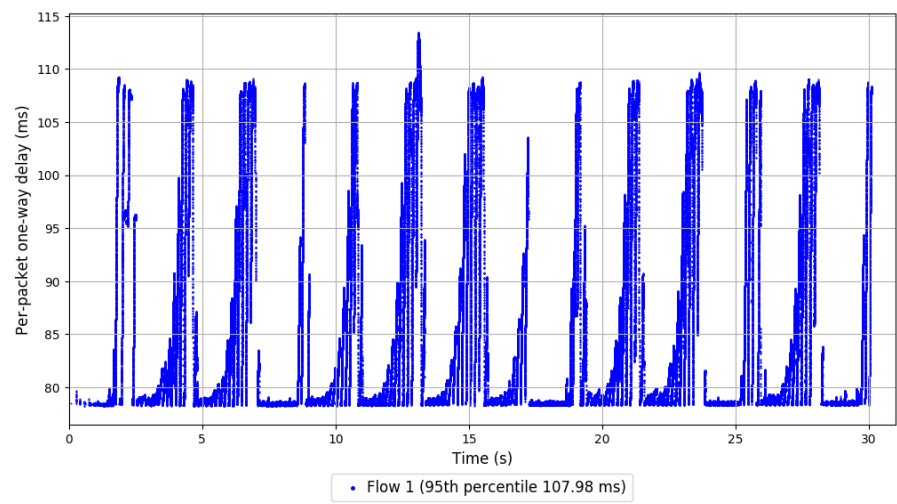
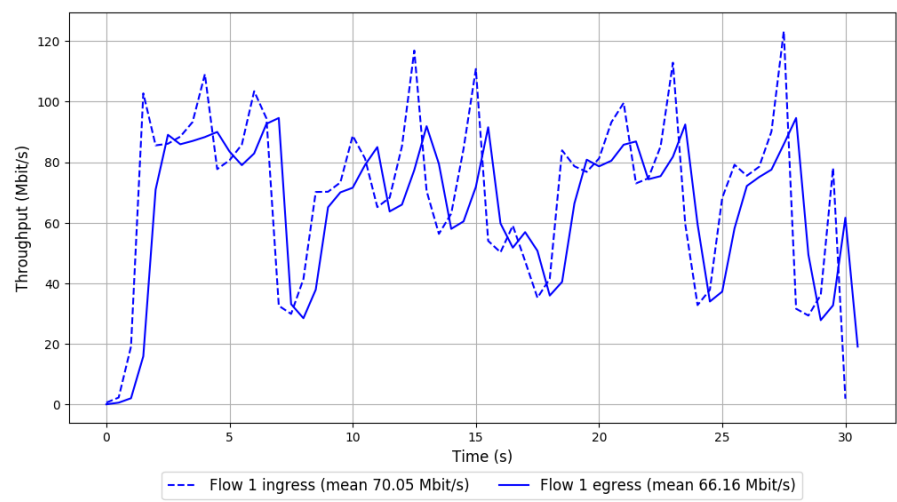
-- Flow 1:

Average throughput: 66.16 Mbit/s

95th percentile per-packet one-way delay: 107.983 ms

Loss rate: 5.46%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-05-21 23:17:52

End at: 2018-05-21 23:18:22

Local clock offset: -2.399 ms

Remote clock offset: 8.364 ms

Below is generated by plot.py at 2018-05-22 00:48:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.19 Mbit/s

95th percentile per-packet one-way delay: 114.249 ms

Loss rate: 4.21%

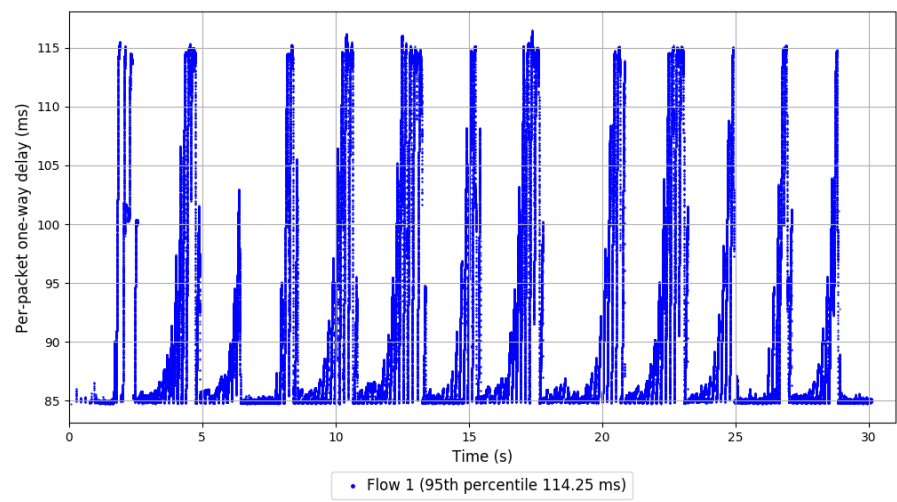
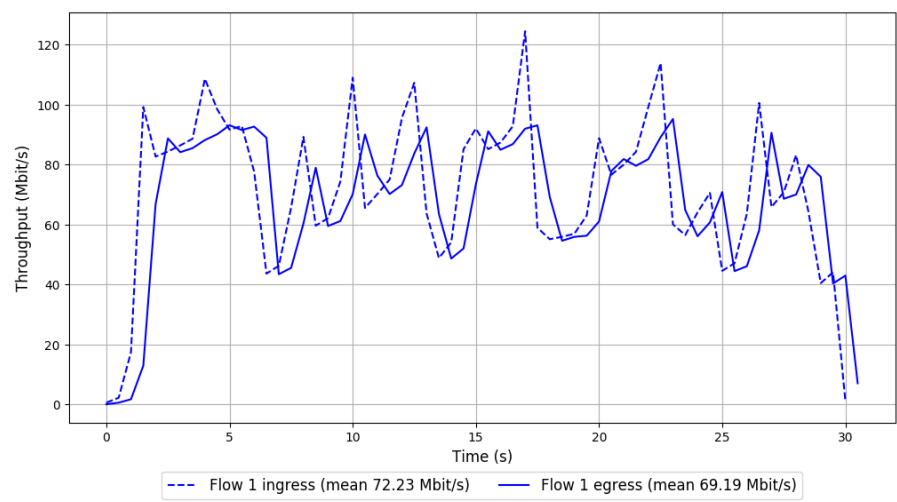
-- Flow 1:

Average throughput: 69.19 Mbit/s

95th percentile per-packet one-way delay: 114.249 ms

Loss rate: 4.21%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-05-21 23:36:20

End at: 2018-05-21 23:36:50

Local clock offset: -3.275 ms

Remote clock offset: 3.048 ms

Below is generated by plot.py at 2018-05-22 00:50:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.12 Mbit/s

95th percentile per-packet one-way delay: 91.135 ms

Loss rate: 1.05%

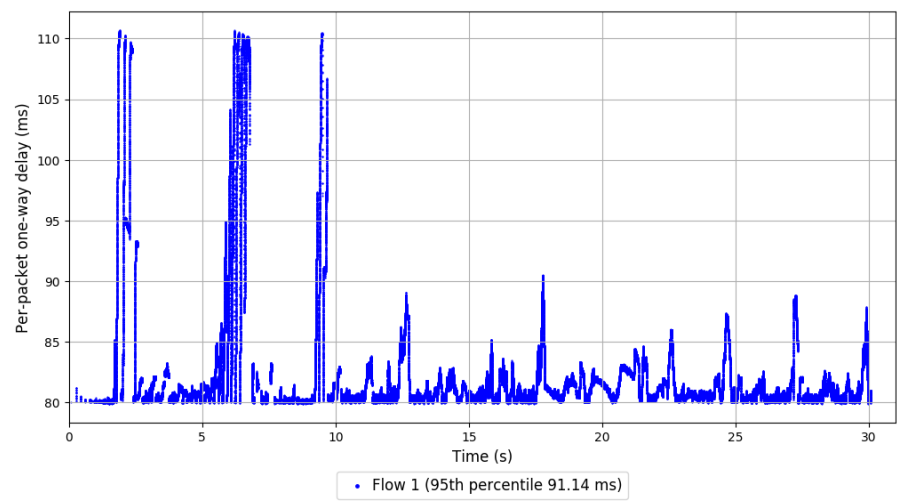
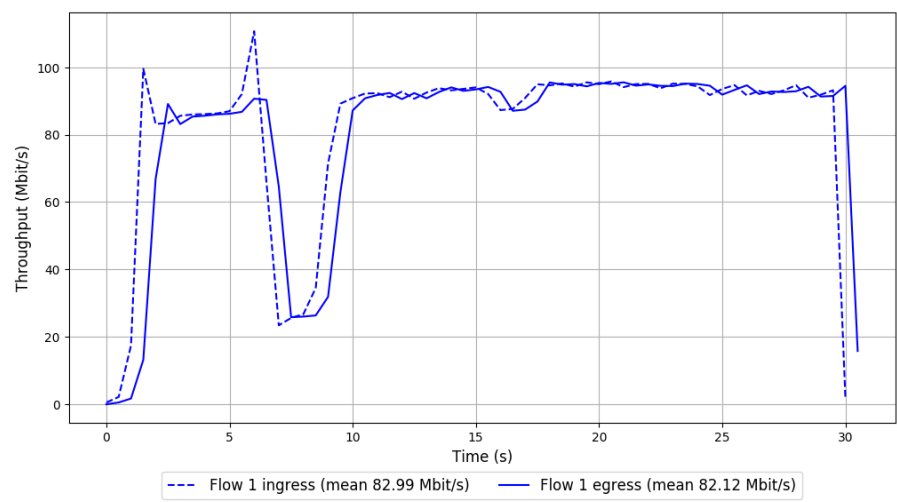
-- Flow 1:

Average throughput: 82.12 Mbit/s

95th percentile per-packet one-way delay: 91.135 ms

Loss rate: 1.05%

Run 7: Report of Copa — Data Link

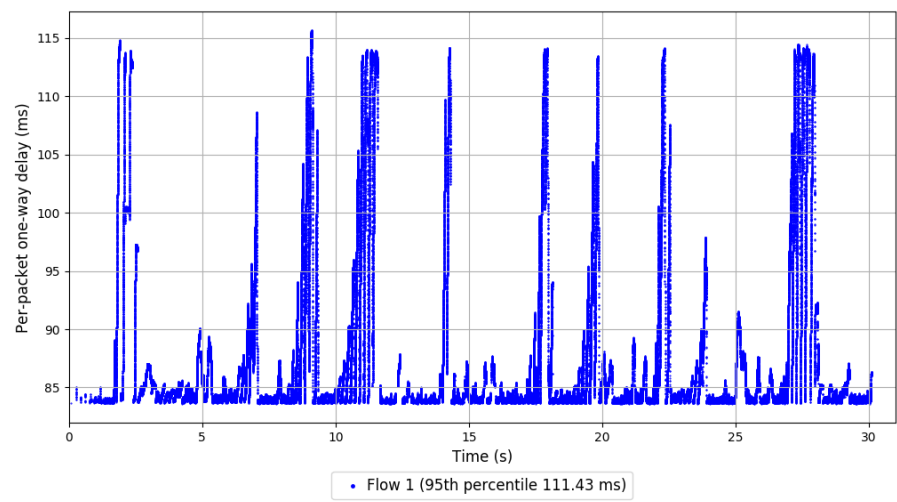
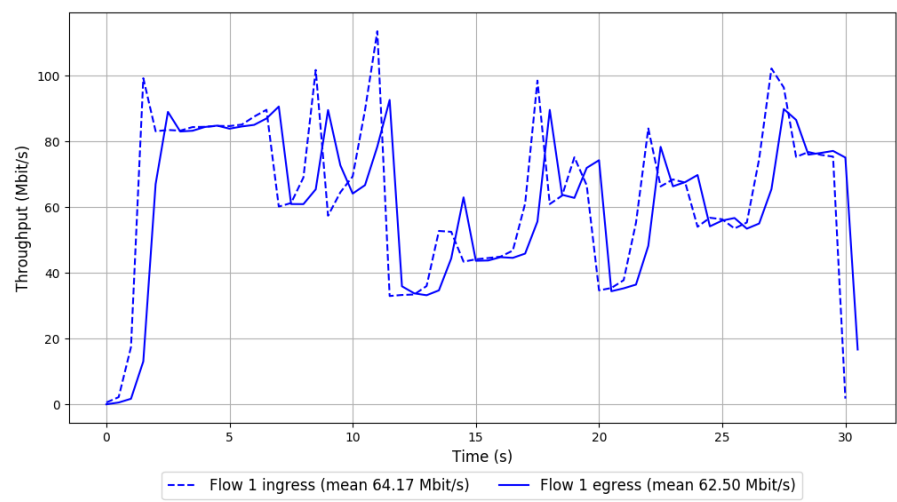


Run 8: Statistics of Copa

Start at: 2018-05-21 23:54:50
End at: 2018-05-21 23:55:20
Local clock offset: -4.065 ms
Remote clock offset: 6.817 ms

Below is generated by plot.py at 2018-05-22 00:50:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 62.50 Mbit/s
95th percentile per-packet one-way delay: 111.430 ms
Loss rate: 2.61%
-- Flow 1:
Average throughput: 62.50 Mbit/s
95th percentile per-packet one-way delay: 111.430 ms
Loss rate: 2.61%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-05-22 00:13:18

End at: 2018-05-22 00:13:48

Local clock offset: -7.162 ms

Remote clock offset: 7.536 ms

Below is generated by plot.py at 2018-05-22 00:50:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.21 Mbit/s

95th percentile per-packet one-way delay: 105.999 ms

Loss rate: 0.94%

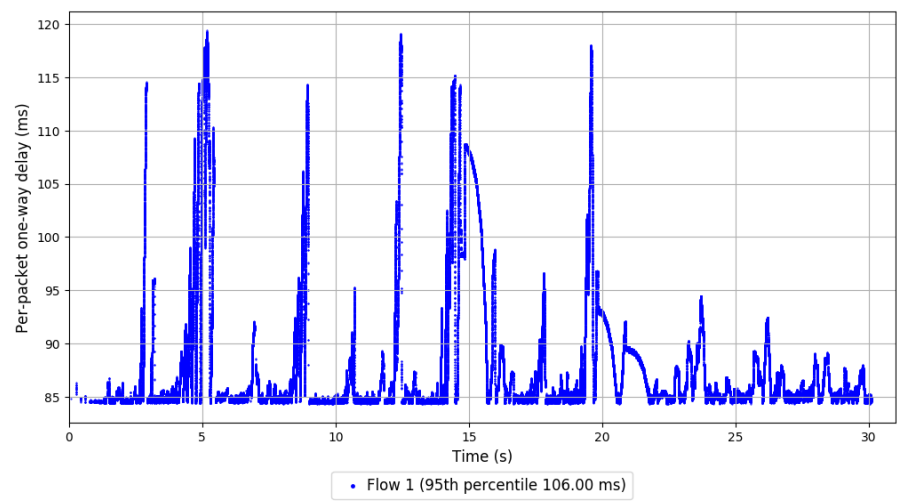
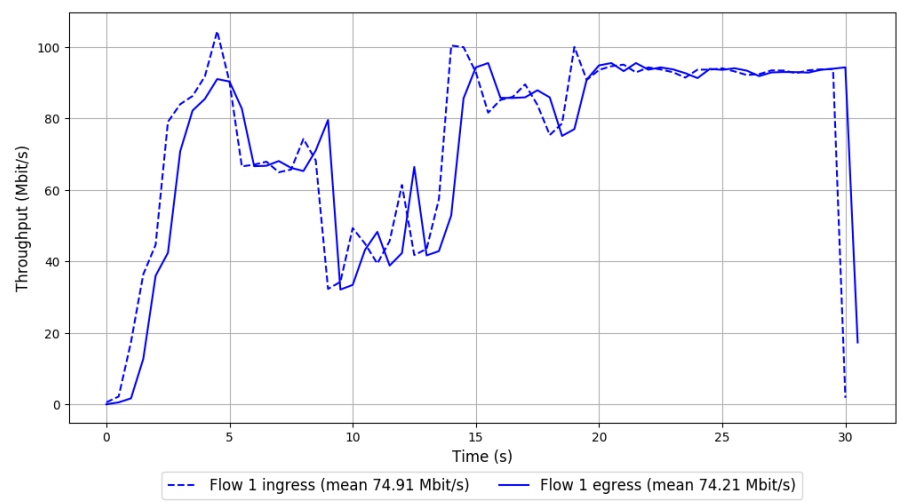
-- Flow 1:

Average throughput: 74.21 Mbit/s

95th percentile per-packet one-way delay: 105.999 ms

Loss rate: 0.94%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-05-22 00:31:48

End at: 2018-05-22 00:32:18

Local clock offset: -5.011 ms

Remote clock offset: 9.237 ms

Below is generated by plot.py at 2018-05-22 00:50:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.34 Mbit/s

95th percentile per-packet one-way delay: 99.147 ms

Loss rate: 0.82%

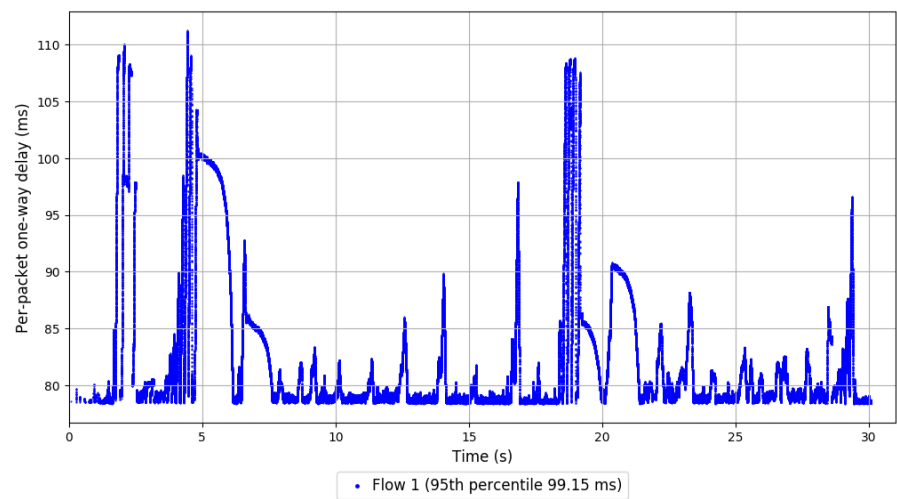
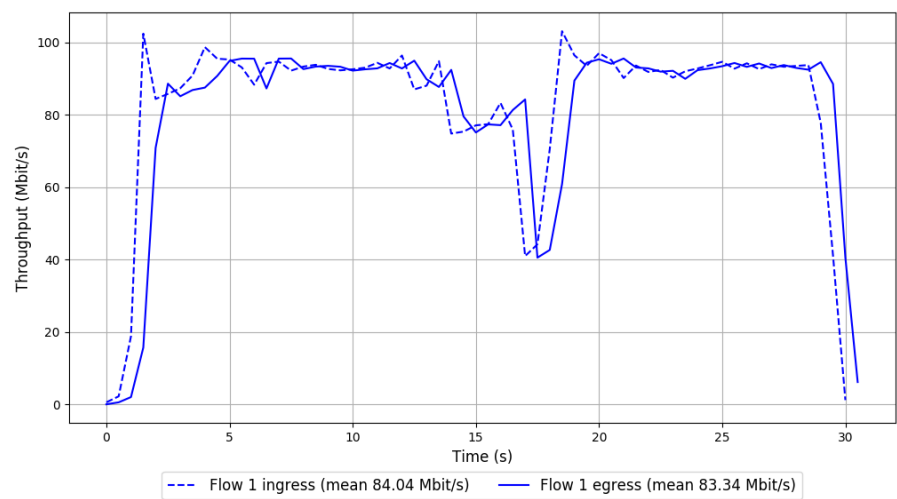
-- Flow 1:

Average throughput: 83.34 Mbit/s

95th percentile per-packet one-way delay: 99.147 ms

Loss rate: 0.82%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-05-21 21:53:31

End at: 2018-05-21 21:54:01

Local clock offset: 33.028 ms

Remote clock offset: 3.674 ms

Below is generated by plot.py at 2018-05-22 00:50:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.44 Mbit/s

95th percentile per-packet one-way delay: 98.840 ms

Loss rate: 0.25%

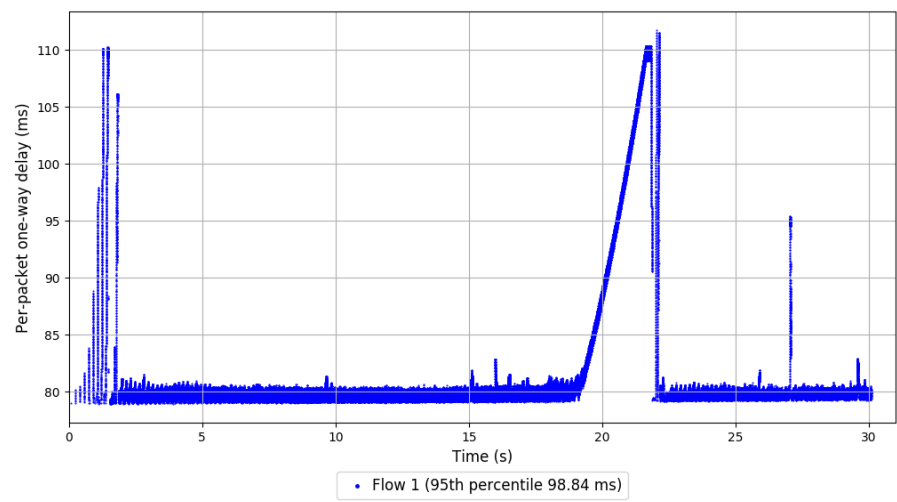
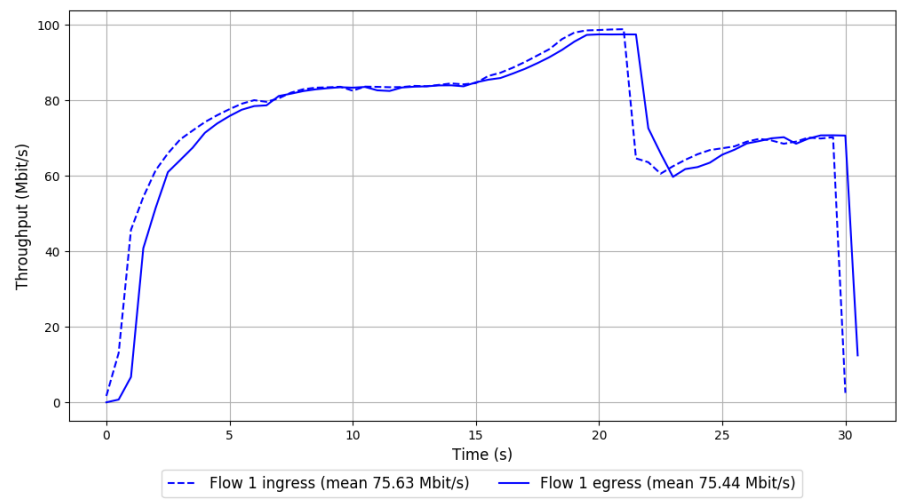
-- Flow 1:

Average throughput: 75.44 Mbit/s

95th percentile per-packet one-way delay: 98.840 ms

Loss rate: 0.25%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-05-21 22:12:00

End at: 2018-05-21 22:12:30

Local clock offset: 3.209 ms

Remote clock offset: 2.771 ms

Below is generated by plot.py at 2018-05-22 00:50:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.93 Mbit/s

95th percentile per-packet one-way delay: 84.192 ms

Loss rate: 0.31%

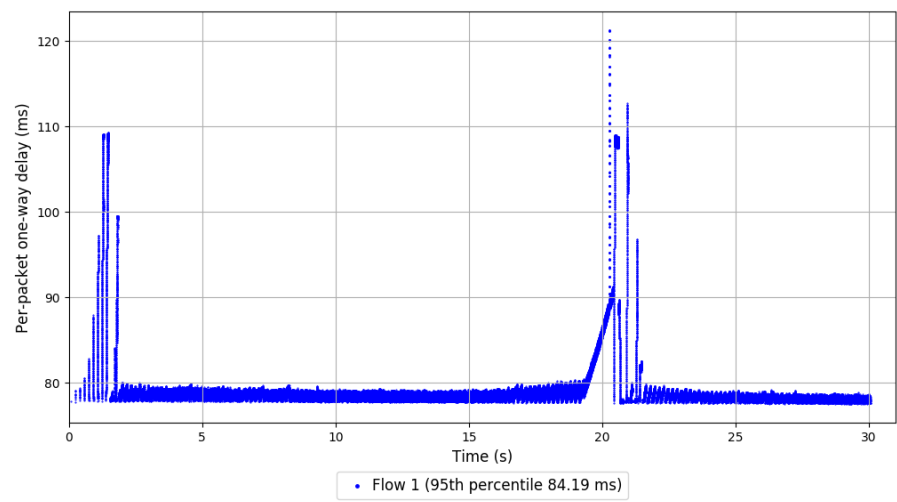
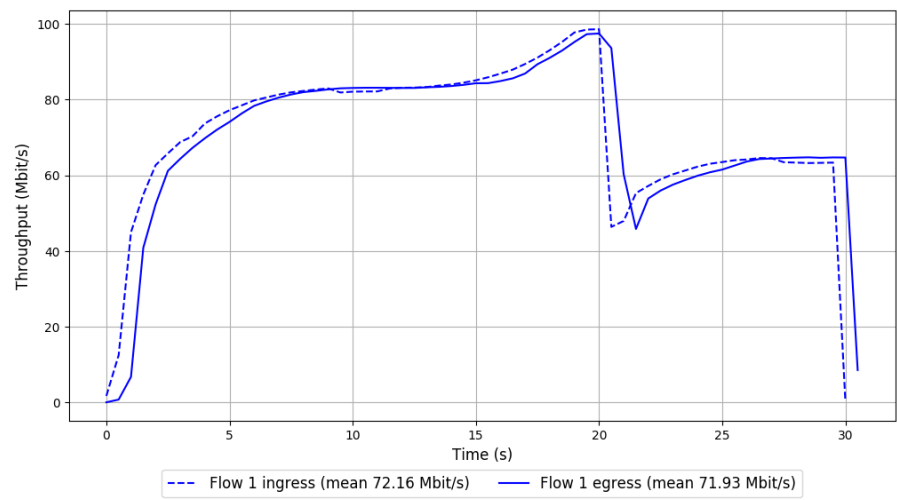
-- Flow 1:

Average throughput: 71.93 Mbit/s

95th percentile per-packet one-way delay: 84.192 ms

Loss rate: 0.31%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-05-21 22:30:30

End at: 2018-05-21 22:31:00

Local clock offset: -2.84 ms

Remote clock offset: 2.468 ms

Below is generated by plot.py at 2018-05-22 00:50:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.55 Mbit/s

95th percentile per-packet one-way delay: 99.411 ms

Loss rate: 0.36%

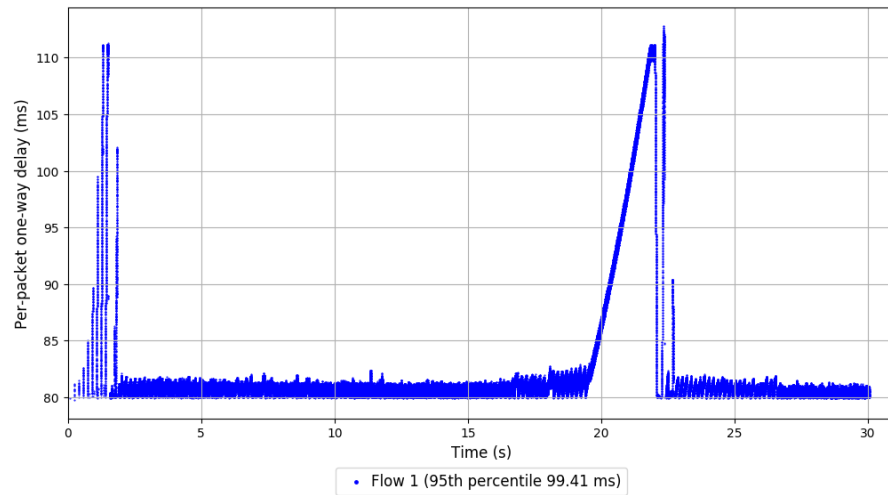
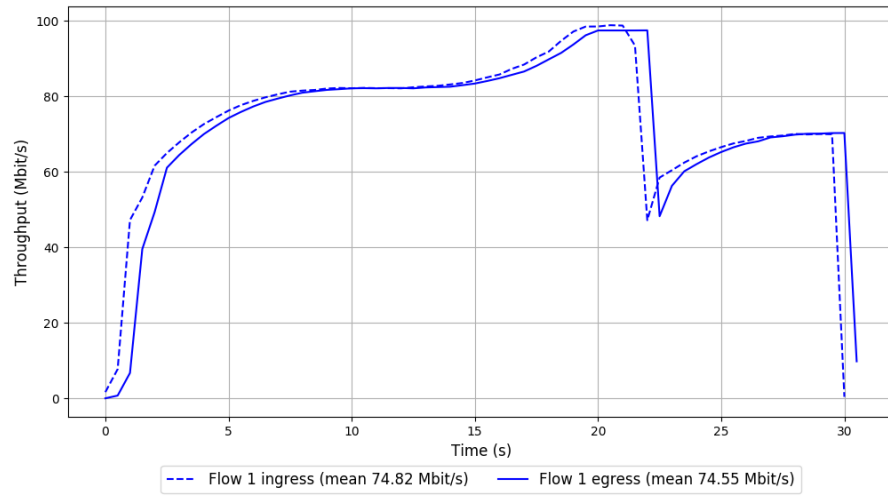
-- Flow 1:

Average throughput: 74.55 Mbit/s

95th percentile per-packet one-way delay: 99.411 ms

Loss rate: 0.36%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-05-21 22:49:00

End at: 2018-05-21 22:49:30

Local clock offset: -4.869 ms

Remote clock offset: 8.007 ms

Below is generated by plot.py at 2018-05-22 00:50:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.64 Mbit/s

95th percentile per-packet one-way delay: 103.532 ms

Loss rate: 0.33%

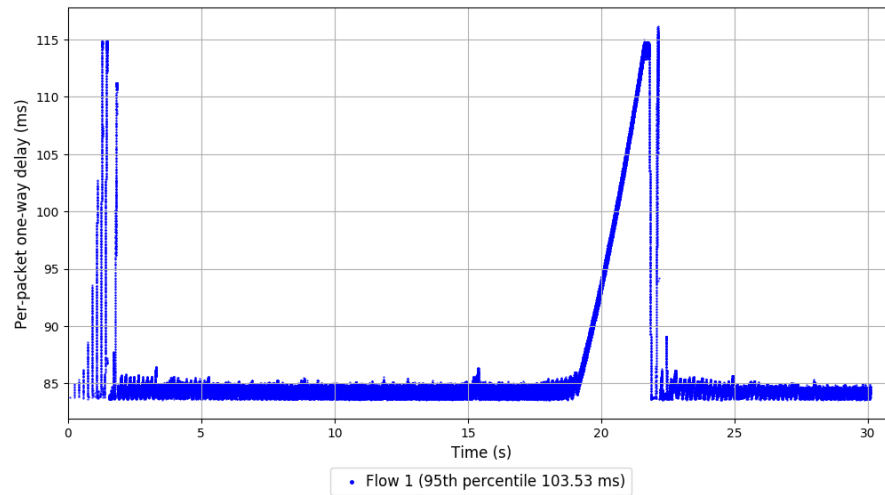
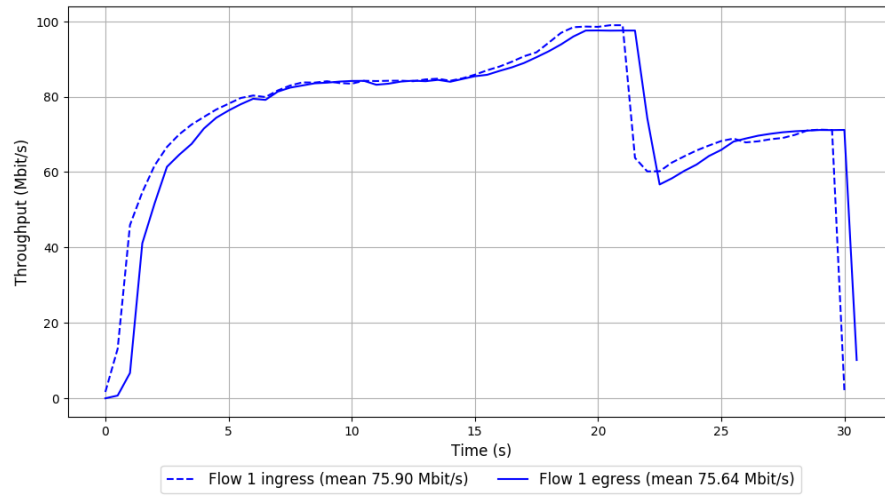
-- Flow 1:

Average throughput: 75.64 Mbit/s

95th percentile per-packet one-way delay: 103.532 ms

Loss rate: 0.33%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-05-21 23:07:30

End at: 2018-05-21 23:08:00

Local clock offset: -2.782 ms

Remote clock offset: 9.551 ms

Below is generated by plot.py at 2018-05-22 00:50:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.69 Mbit/s

95th percentile per-packet one-way delay: 105.560 ms

Loss rate: 0.45%

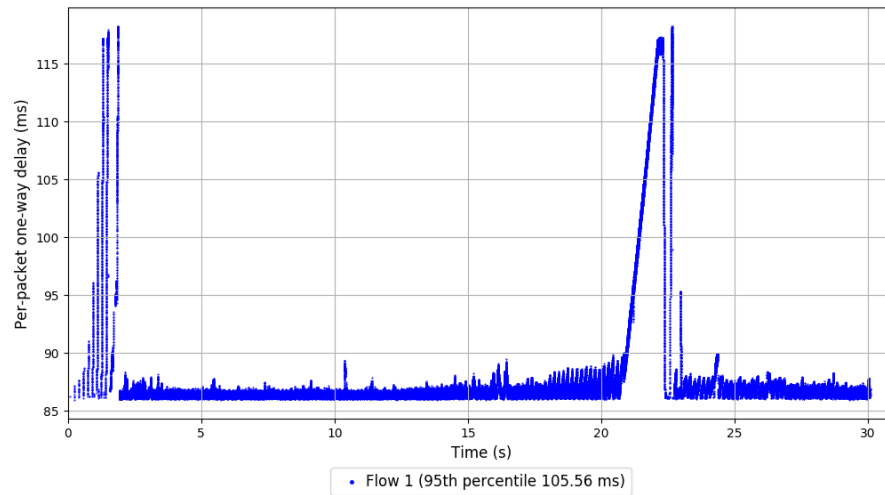
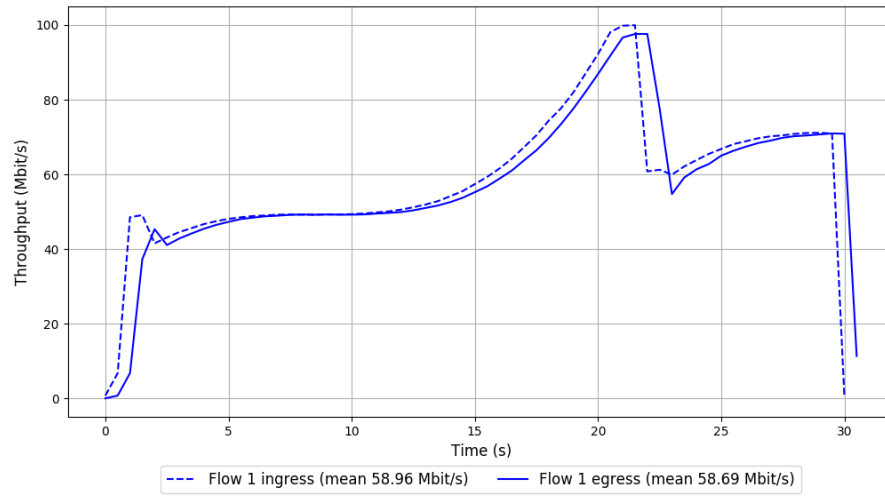
-- Flow 1:

Average throughput: 58.69 Mbit/s

95th percentile per-packet one-way delay: 105.560 ms

Loss rate: 0.45%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-05-21 23:26:03

End at: 2018-05-21 23:26:33

Local clock offset: -1.637 ms

Remote clock offset: 4.129 ms

Below is generated by plot.py at 2018-05-22 00:50:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.11 Mbit/s

95th percentile per-packet one-way delay: 100.627 ms

Loss rate: 0.33%

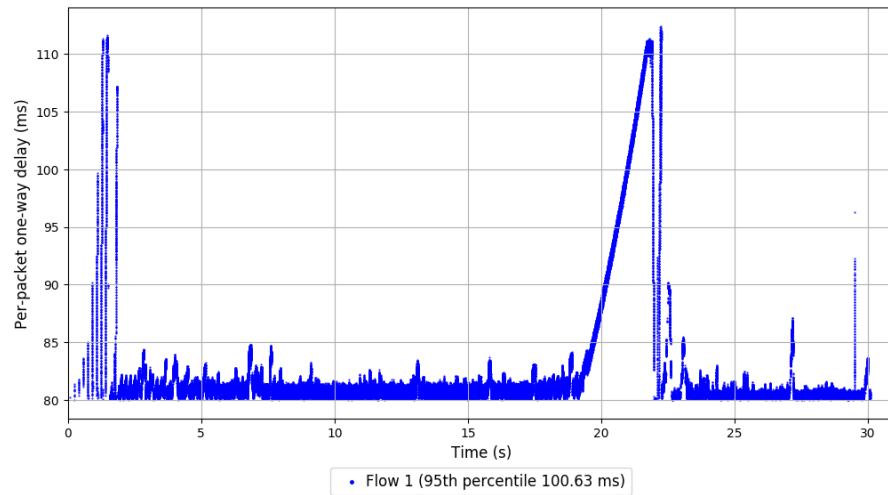
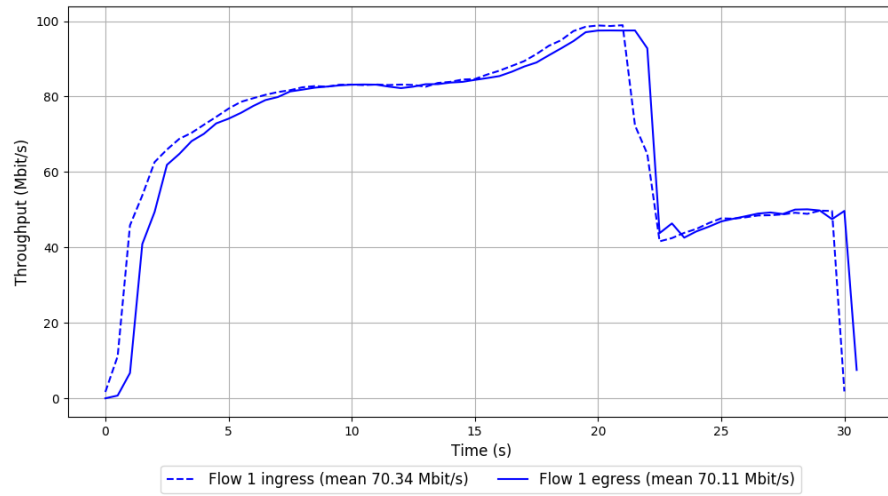
-- Flow 1:

Average throughput: 70.11 Mbit/s

95th percentile per-packet one-way delay: 100.627 ms

Loss rate: 0.33%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-05-21 23:44:33

End at: 2018-05-21 23:45:03

Local clock offset: -4.468 ms

Remote clock offset: 3.784 ms

Below is generated by plot.py at 2018-05-22 00:50:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.44 Mbit/s

95th percentile per-packet one-way delay: 99.582 ms

Loss rate: 0.25%

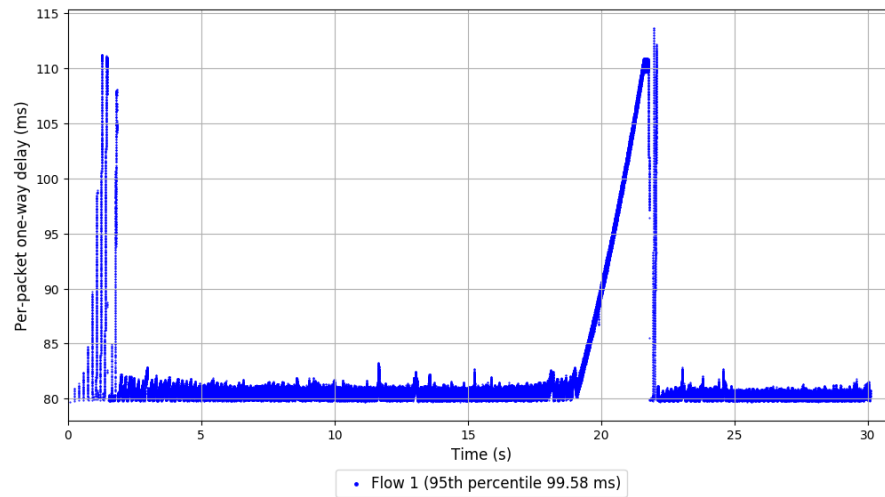
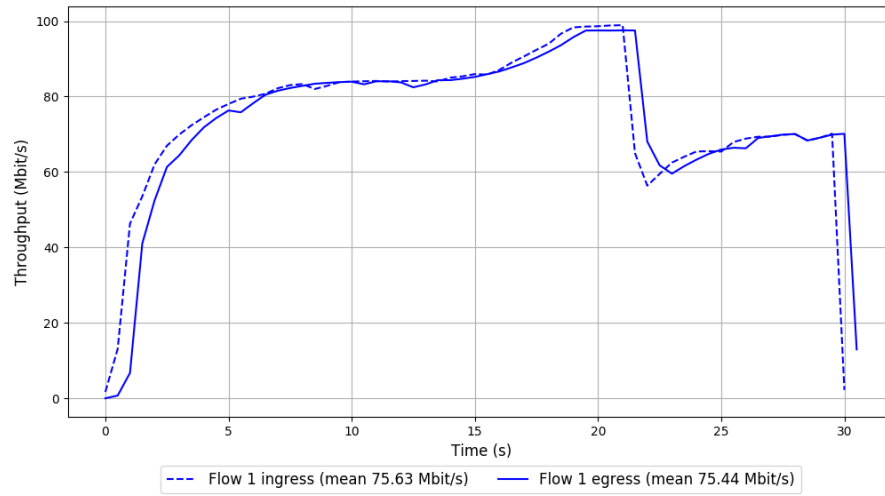
-- Flow 1:

Average throughput: 75.44 Mbit/s

95th percentile per-packet one-way delay: 99.582 ms

Loss rate: 0.25%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-05-22 00:03:01

End at: 2018-05-22 00:03:31

Local clock offset: -5.709 ms

Remote clock offset: 7.712 ms

Below is generated by plot.py at 2018-05-22 00:50:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.87 Mbit/s

95th percentile per-packet one-way delay: 102.631 ms

Loss rate: 0.64%

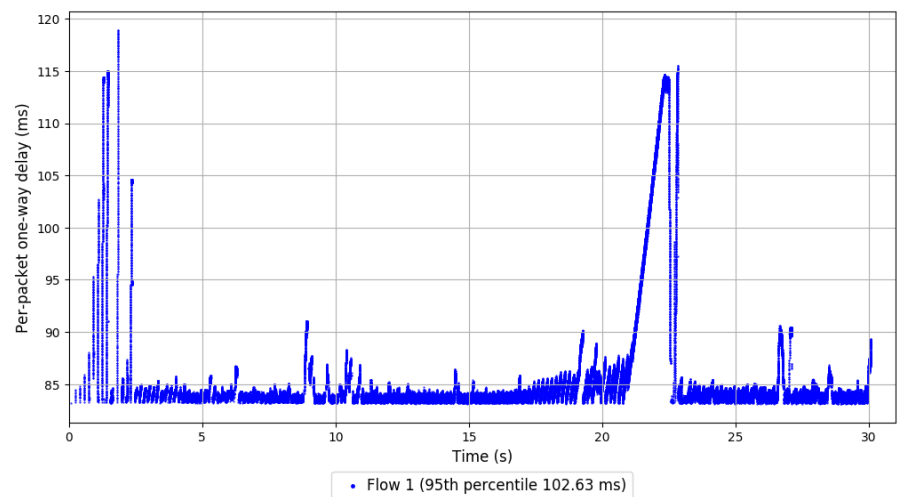
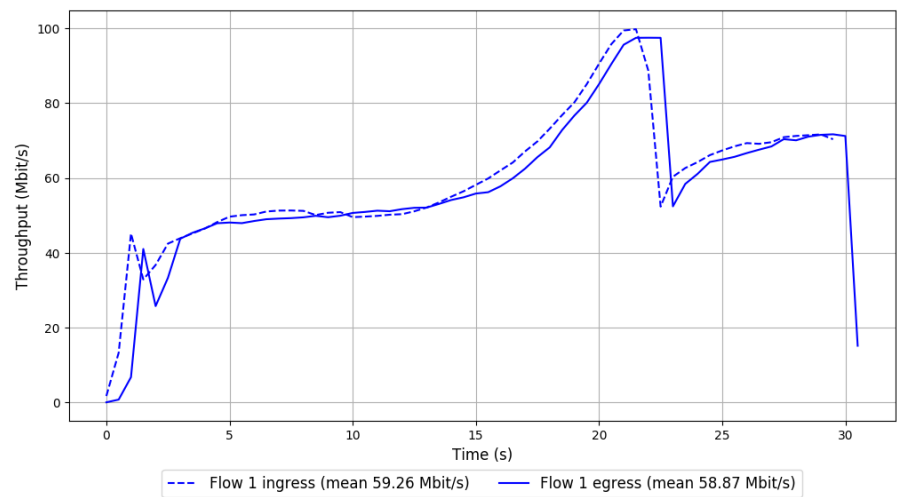
-- Flow 1:

Average throughput: 58.87 Mbit/s

95th percentile per-packet one-way delay: 102.631 ms

Loss rate: 0.64%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-05-22 00:21:31

End at: 2018-05-22 00:22:01

Local clock offset: -7.887 ms

Remote clock offset: 3.754 ms

Below is generated by plot.py at 2018-05-22 00:50:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.07 Mbit/s

95th percentile per-packet one-way delay: 100.137 ms

Loss rate: 0.32%

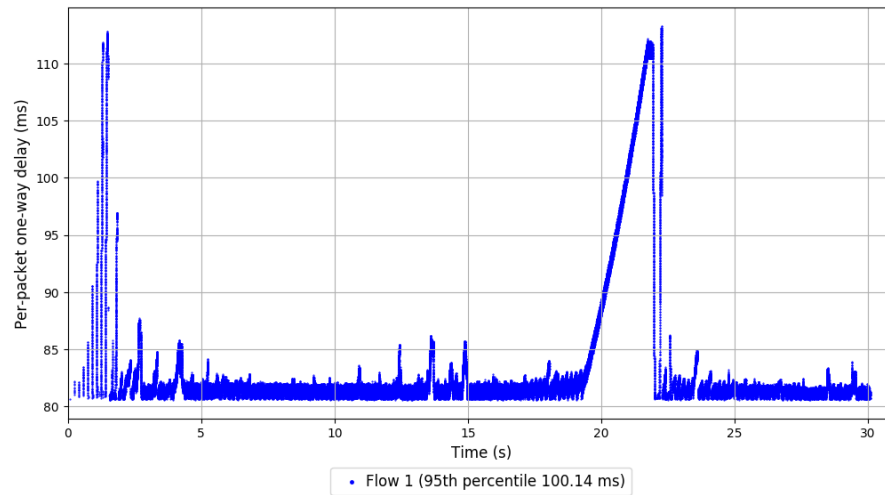
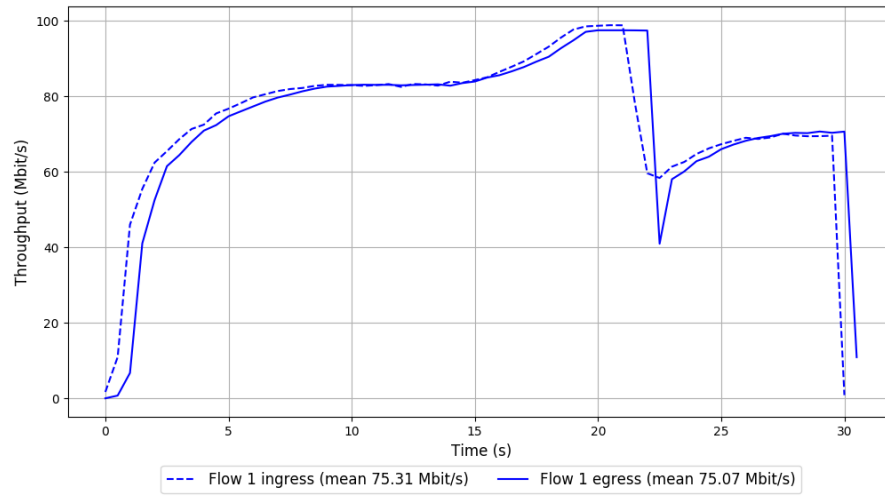
-- Flow 1:

Average throughput: 75.07 Mbit/s

95th percentile per-packet one-way delay: 100.137 ms

Loss rate: 0.32%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-05-22 00:40:02

End at: 2018-05-22 00:40:32

Local clock offset: -3.073 ms

Remote clock offset: 15.715 ms

Below is generated by plot.py at 2018-05-22 00:50:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.04 Mbit/s

95th percentile per-packet one-way delay: 95.382 ms

Loss rate: 0.67%

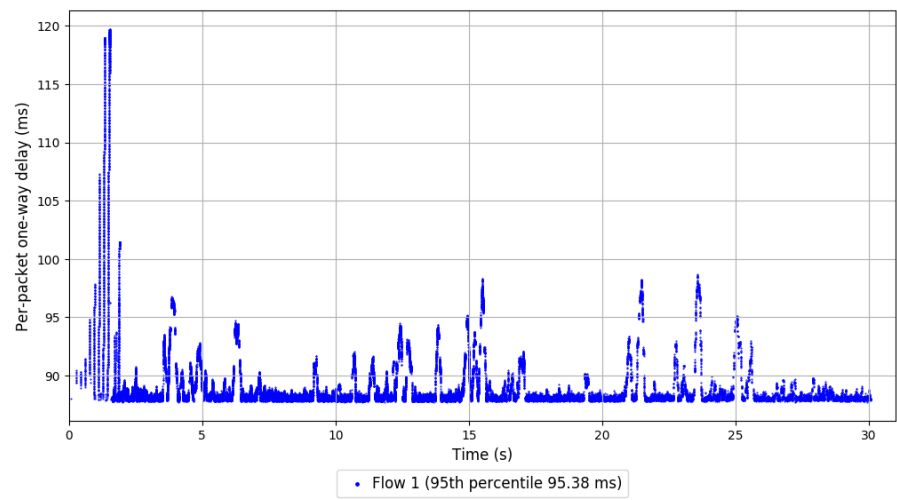
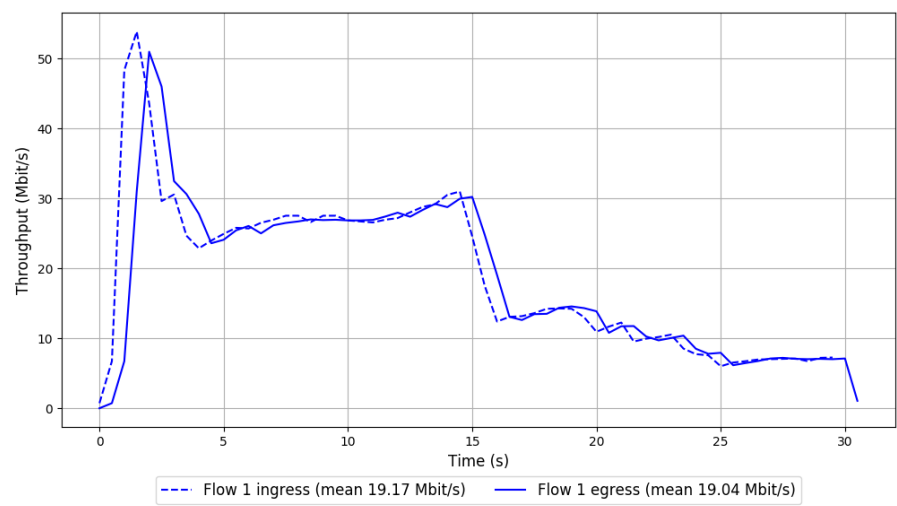
-- Flow 1:

Average throughput: 19.04 Mbit/s

95th percentile per-packet one-way delay: 95.382 ms

Loss rate: 0.67%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-05-21 21:43:02

End at: 2018-05-21 21:43:32

Local clock offset: 24.665 ms

Remote clock offset: 8.767 ms

Below is generated by plot.py at 2018-05-22 00:52:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.89 Mbit/s

95th percentile per-packet one-way delay: 113.371 ms

Loss rate: 7.46%

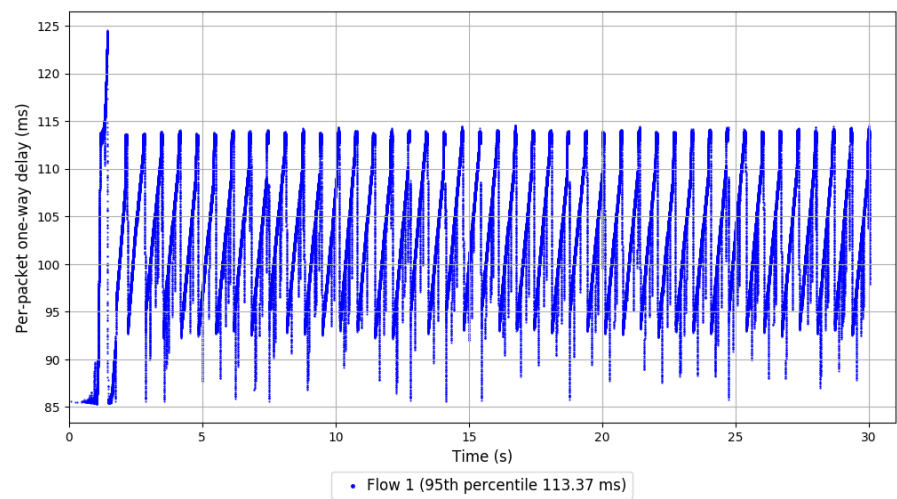
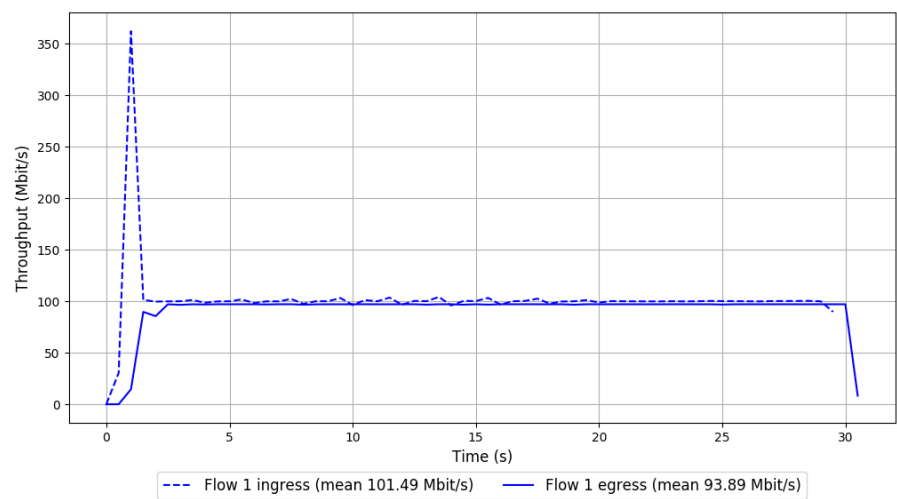
-- Flow 1:

Average throughput: 93.89 Mbit/s

95th percentile per-packet one-way delay: 113.371 ms

Loss rate: 7.46%

Run 1: Report of FillP — Data Link

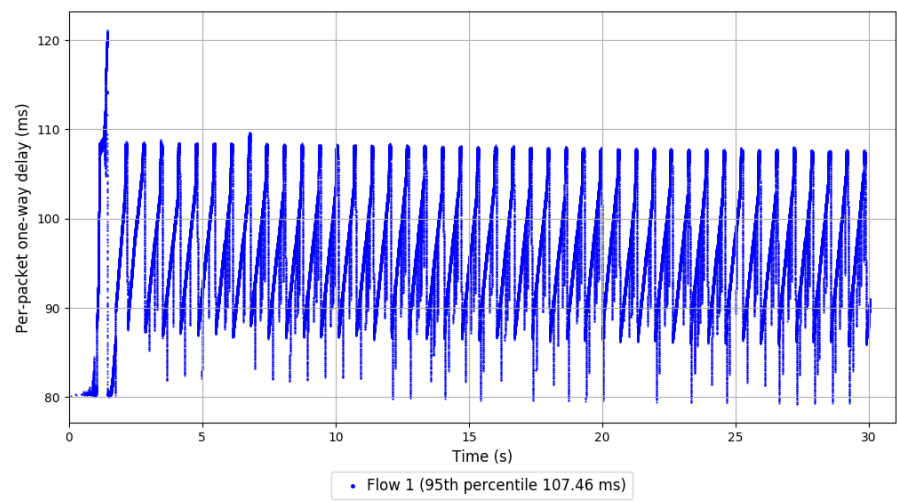
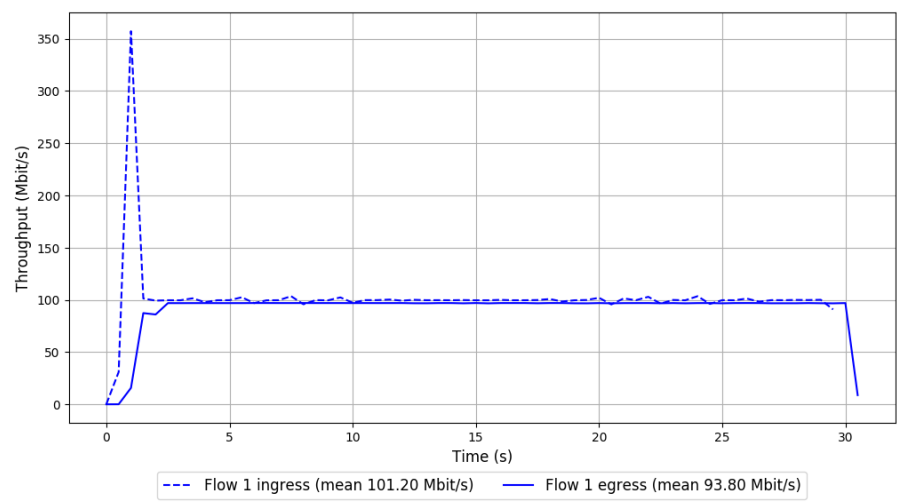


Run 2: Statistics of FillP

Start at: 2018-05-21 22:01:30
End at: 2018-05-21 22:02:00
Local clock offset: 17.769 ms
Remote clock offset: 2.894 ms

Below is generated by plot.py at 2018-05-22 00:52:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.80 Mbit/s
95th percentile per-packet one-way delay: 107.461 ms
Loss rate: 7.28%
-- Flow 1:
Average throughput: 93.80 Mbit/s
95th percentile per-packet one-way delay: 107.461 ms
Loss rate: 7.28%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-05-21 22:20:00

End at: 2018-05-21 22:20:30

Local clock offset: -1.739 ms

Remote clock offset: 2.572 ms

Below is generated by plot.py at 2018-05-22 00:52:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.83 Mbit/s

95th percentile per-packet one-way delay: 108.311 ms

Loss rate: 7.43%

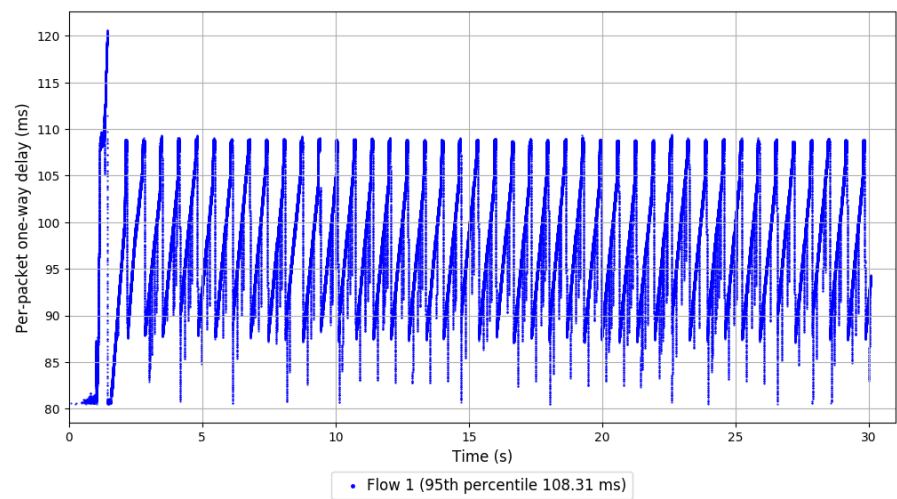
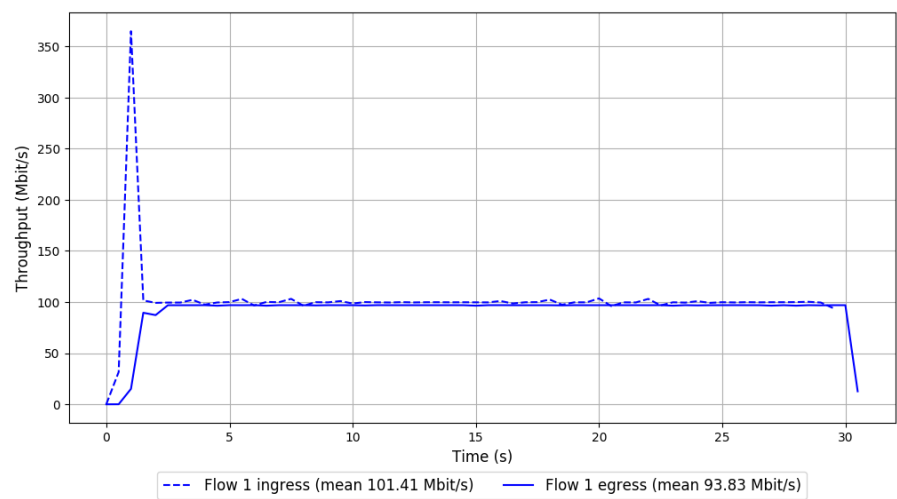
-- Flow 1:

Average throughput: 93.83 Mbit/s

95th percentile per-packet one-way delay: 108.311 ms

Loss rate: 7.43%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-05-21 22:38:30

End at: 2018-05-21 22:39:00

Local clock offset: -3.452 ms

Remote clock offset: 6.923 ms

Below is generated by plot.py at 2018-05-22 00:52:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.76 Mbit/s

95th percentile per-packet one-way delay: 118.095 ms

Loss rate: 7.40%

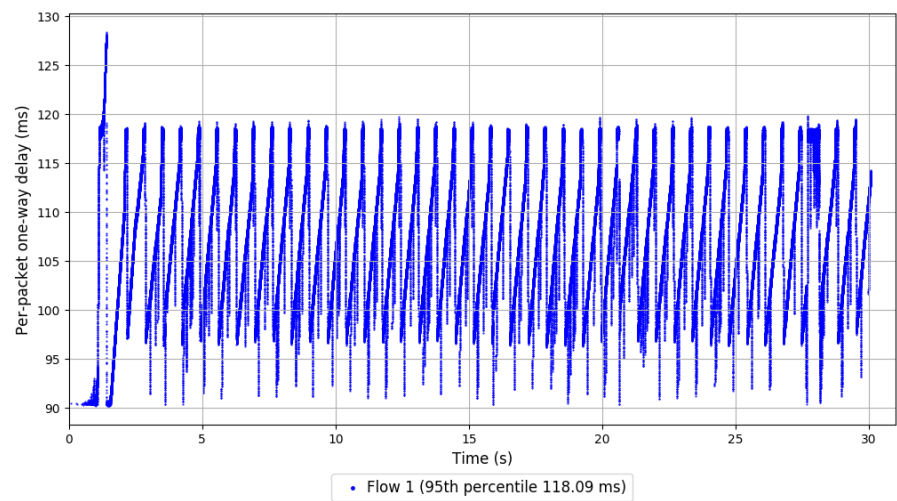
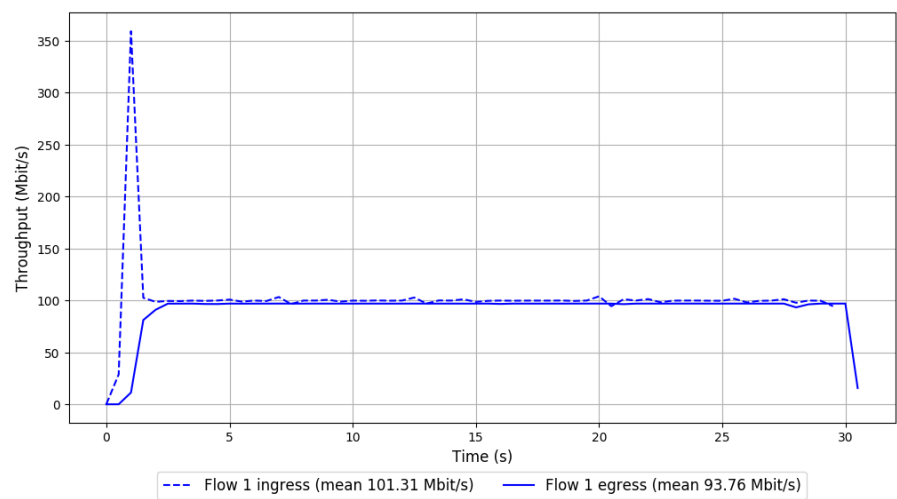
-- Flow 1:

Average throughput: 93.76 Mbit/s

95th percentile per-packet one-way delay: 118.095 ms

Loss rate: 7.40%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-05-21 22:57:00

End at: 2018-05-21 22:57:30

Local clock offset: -4.459 ms

Remote clock offset: 3.738 ms

Below is generated by plot.py at 2018-05-22 00:52:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.85 Mbit/s

95th percentile per-packet one-way delay: 108.436 ms

Loss rate: 7.35%

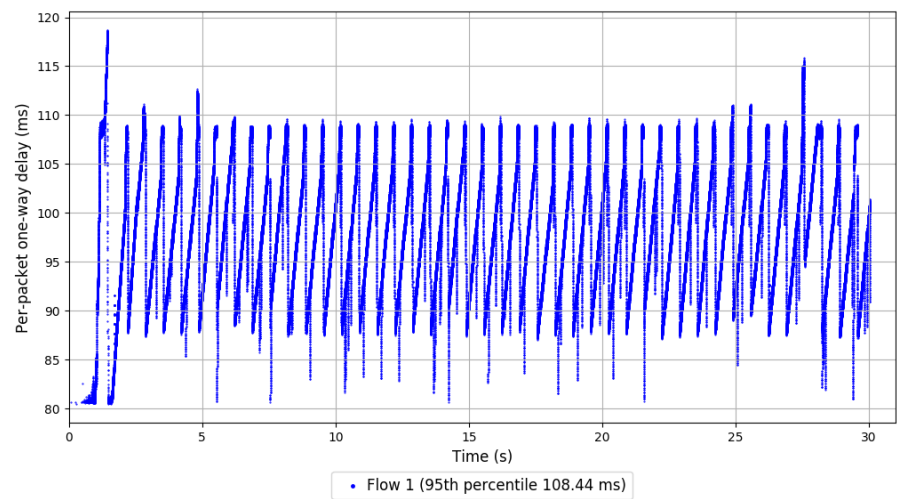
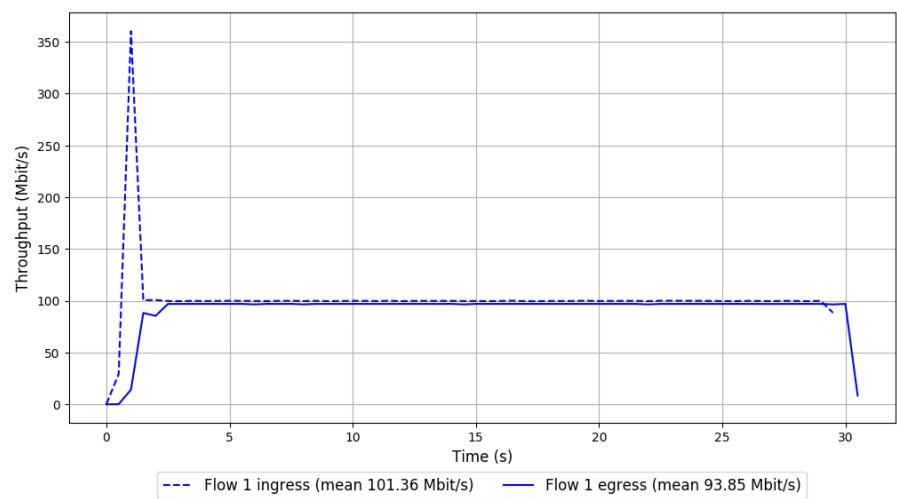
-- Flow 1:

Average throughput: 93.85 Mbit/s

95th percentile per-packet one-way delay: 108.436 ms

Loss rate: 7.35%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-05-21 23:15:34

End at: 2018-05-21 23:16:04

Local clock offset: -2.44 ms

Remote clock offset: 8.743 ms

Below is generated by plot.py at 2018-05-22 00:52:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.92 Mbit/s

95th percentile per-packet one-way delay: 112.602 ms

Loss rate: 7.34%

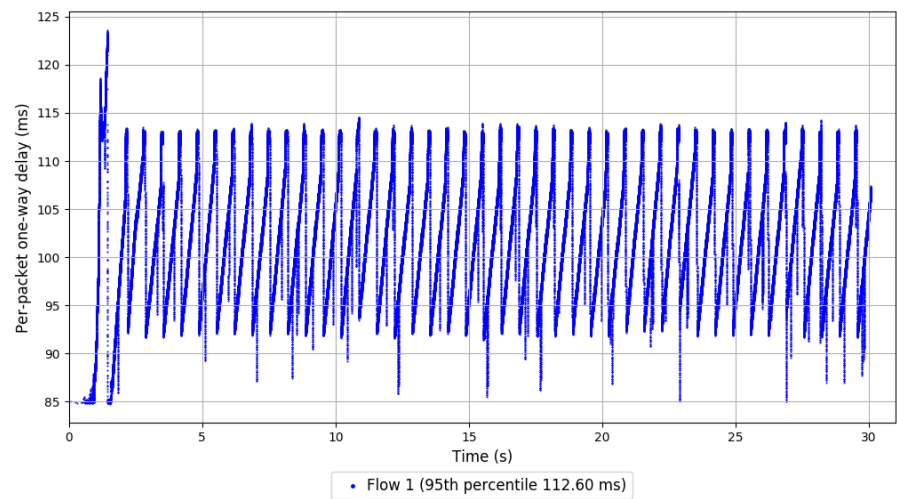
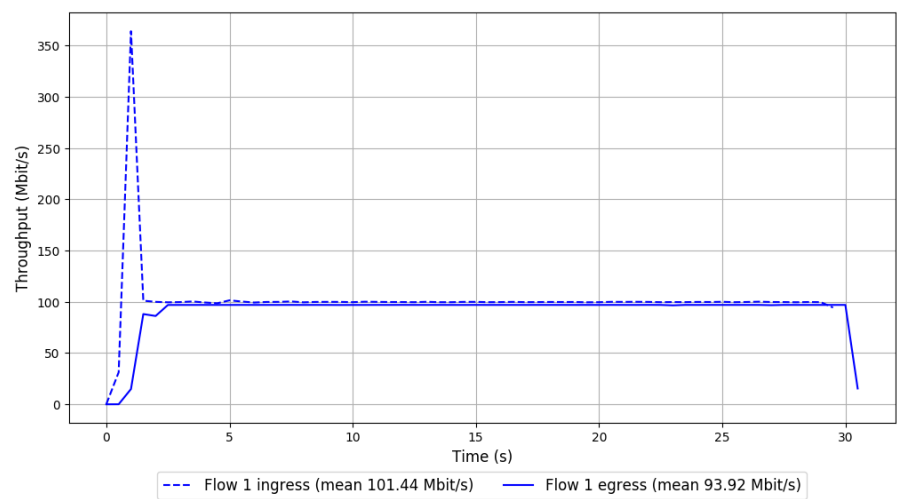
-- Flow 1:

Average throughput: 93.92 Mbit/s

95th percentile per-packet one-way delay: 112.602 ms

Loss rate: 7.34%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-05-21 23:34:03

End at: 2018-05-21 23:34:33

Local clock offset: -3.205 ms

Remote clock offset: 6.906 ms

Below is generated by plot.py at 2018-05-22 00:52:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.74 Mbit/s

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

Loss rate: 7.50%

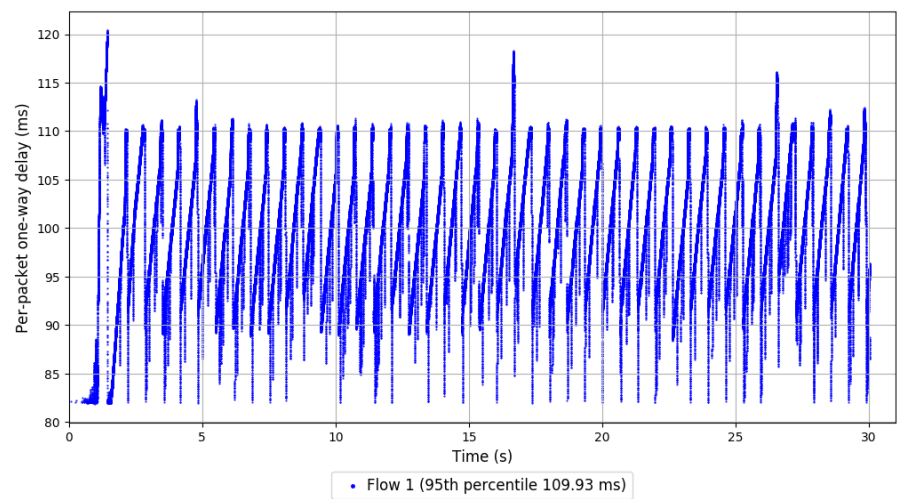
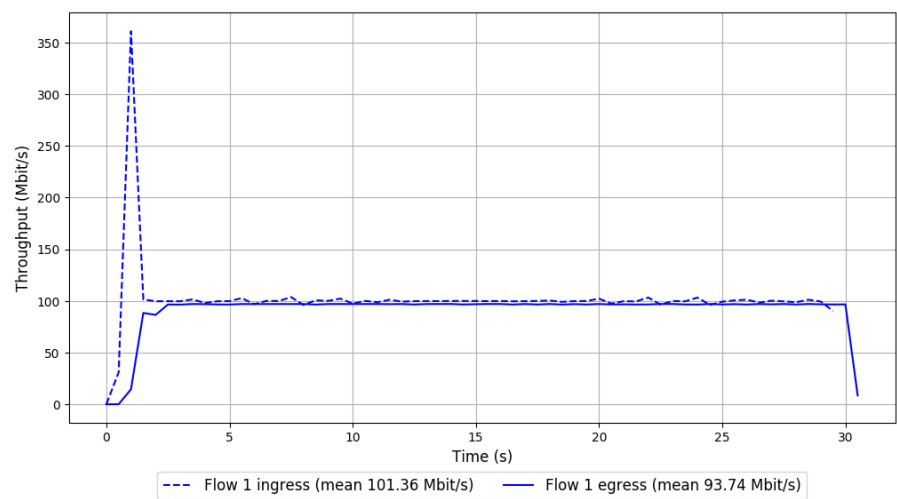
-- Flow 1:

Average throughput: 93.74 Mbit/s

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

Loss rate: 7.50%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-05-21 23:52:32

End at: 2018-05-21 23:53:02

Local clock offset: -3.976 ms

Remote clock offset: 7.692 ms

Below is generated by plot.py at 2018-05-22 00:52:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.87 Mbit/s

95th percentile per-packet one-way delay: 113.015 ms

Loss rate: 7.44%

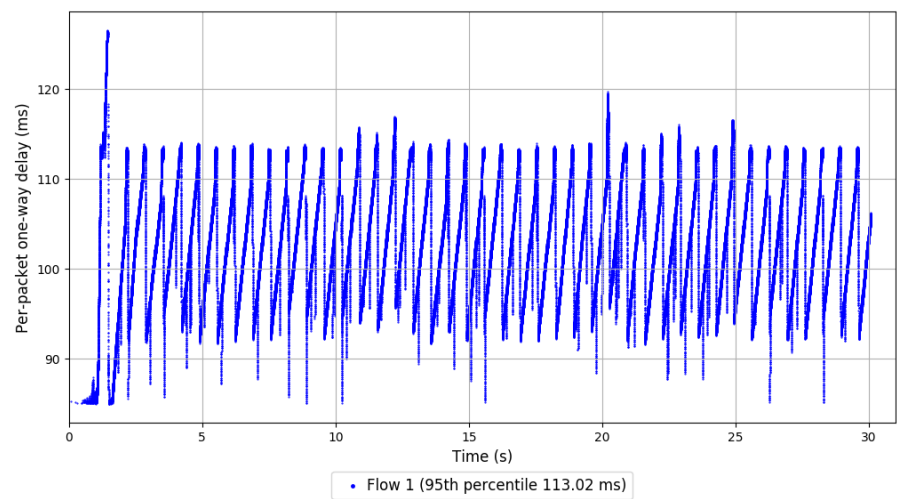
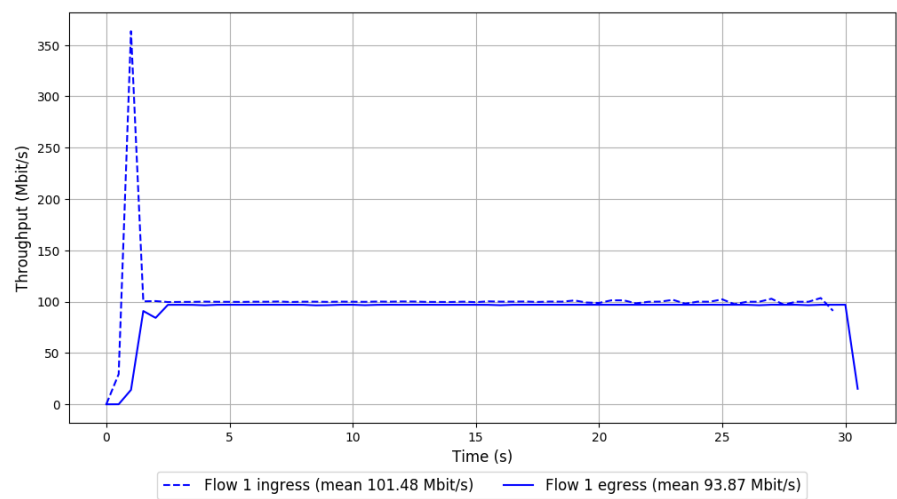
-- Flow 1:

Average throughput: 93.87 Mbit/s

95th percentile per-packet one-way delay: 113.015 ms

Loss rate: 7.44%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-05-22 00:11:00

End at: 2018-05-22 00:11:30

Local clock offset: -6.109 ms

Remote clock offset: 7.814 ms

Below is generated by plot.py at 2018-05-22 00:53:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.58 Mbit/s

95th percentile per-packet one-way delay: 116.334 ms

Loss rate: 7.72%

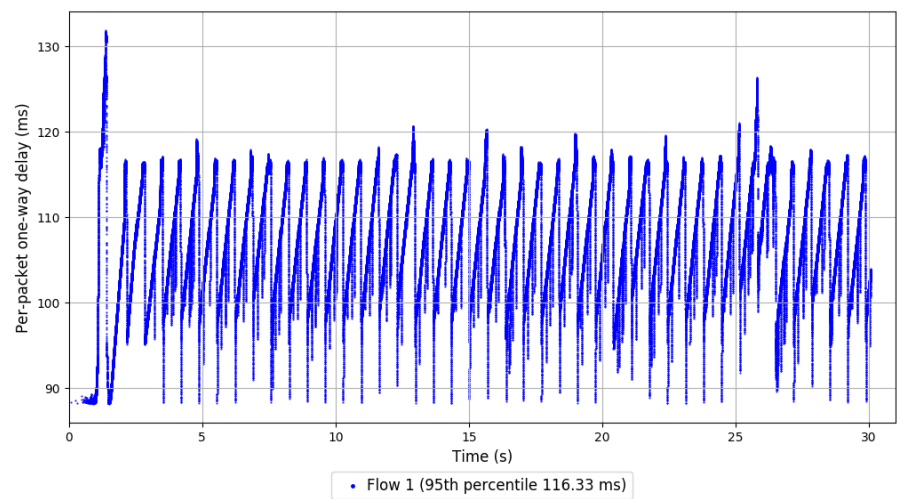
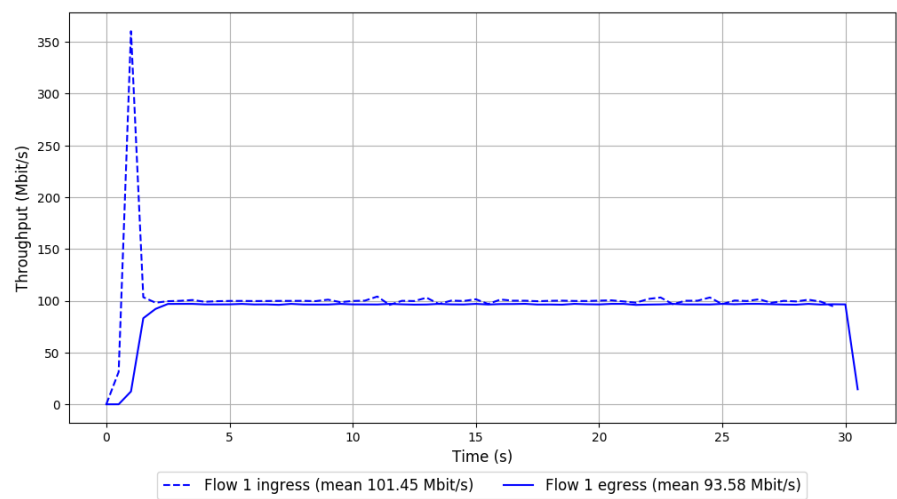
-- Flow 1:

Average throughput: 93.58 Mbit/s

95th percentile per-packet one-way delay: 116.334 ms

Loss rate: 7.72%

Run 9: Report of FillP — Data Link

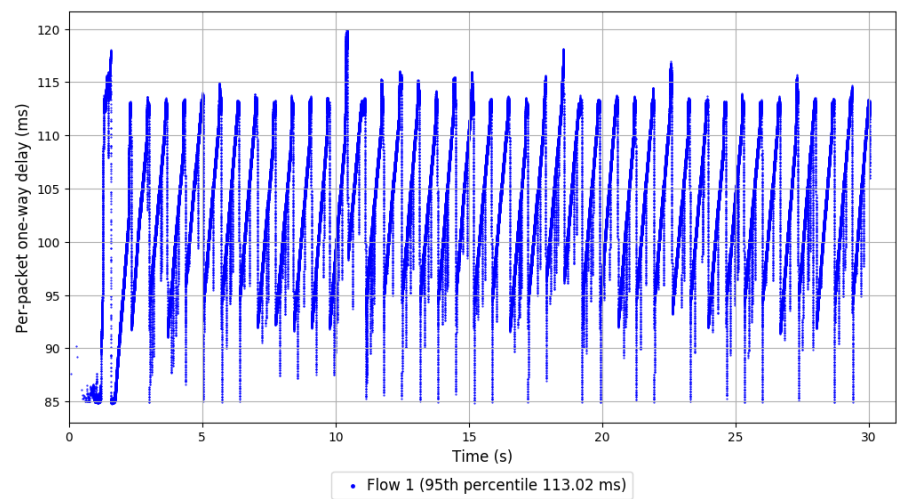
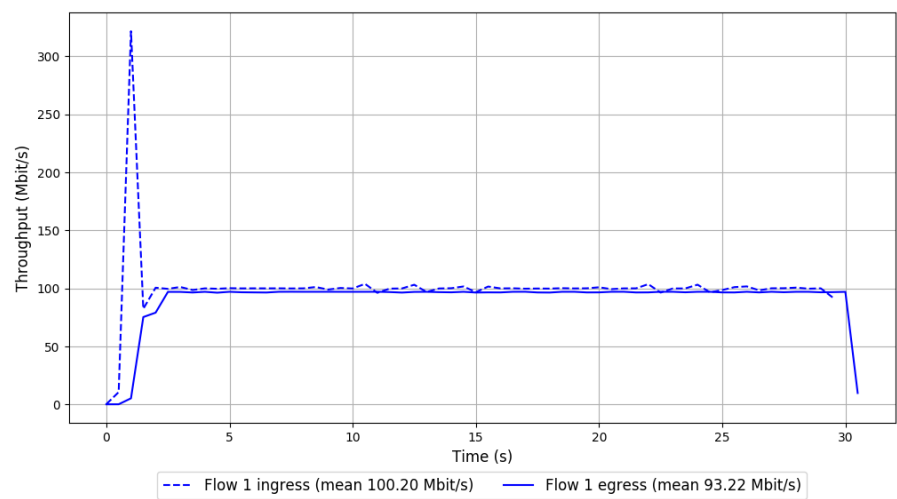


Run 10: Statistics of FillP

Start at: 2018-05-22 00:29:31
End at: 2018-05-22 00:30:01
Local clock offset: -5.99 ms
Remote clock offset: 13.009 ms

Below is generated by plot.py at 2018-05-22 00:53:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.22 Mbit/s
95th percentile per-packet one-way delay: 113.021 ms
Loss rate: 6.90%
-- Flow 1:
Average throughput: 93.22 Mbit/s
95th percentile per-packet one-way delay: 113.021 ms
Loss rate: 6.90%

Run 10: Report of FillP — Data Link

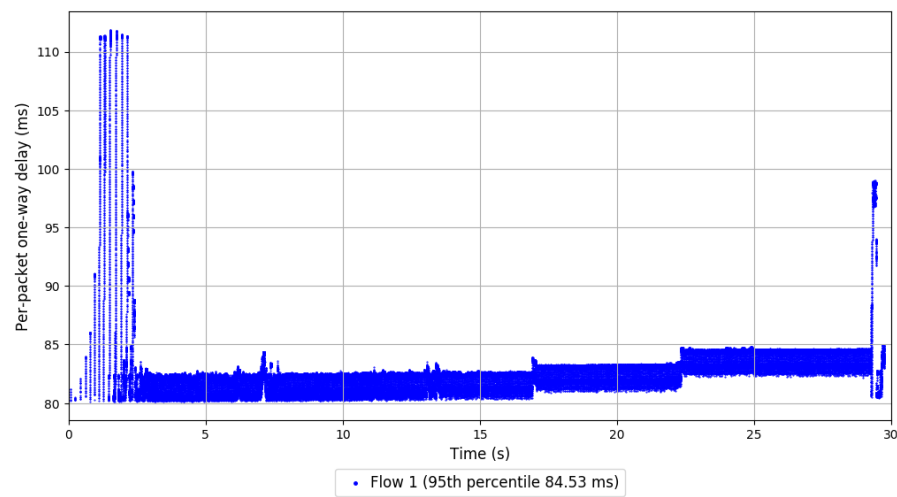
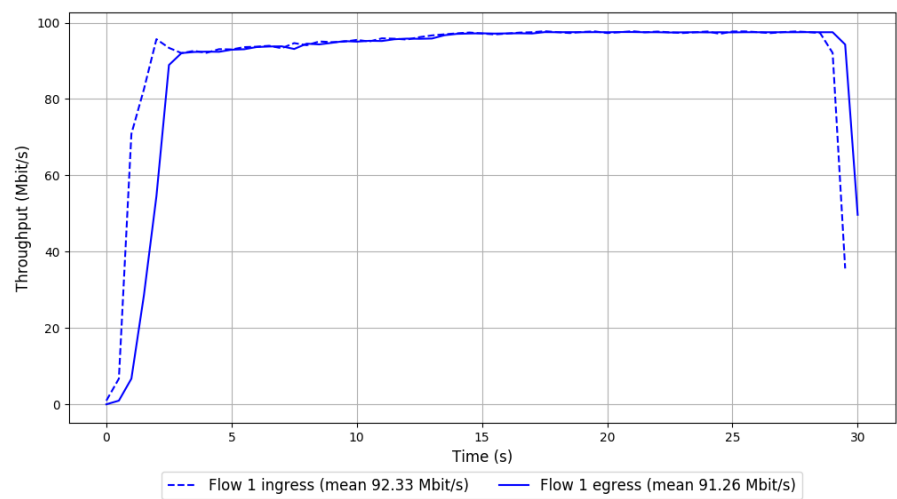


```
Run 1: Statistics of Indigo

Start at: 2018-05-21 21:47:40
End at: 2018-05-21 21:48:10
Local clock offset: 28.473 ms
Remote clock offset: 3.03 ms

# Below is generated by plot.py at 2018-05-22 00:53:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.26 Mbit/s
95th percentile per-packet one-way delay: 84.532 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 91.26 Mbit/s
95th percentile per-packet one-way delay: 84.532 ms
Loss rate: 1.15%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-05-21 22:06:09

End at: 2018-05-21 22:06:39

Local clock offset: 10.227 ms

Remote clock offset: 6.614 ms

Below is generated by plot.py at 2018-05-22 00:53:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.24 Mbit/s

95th percentile per-packet one-way delay: 91.678 ms

Loss rate: 1.17%

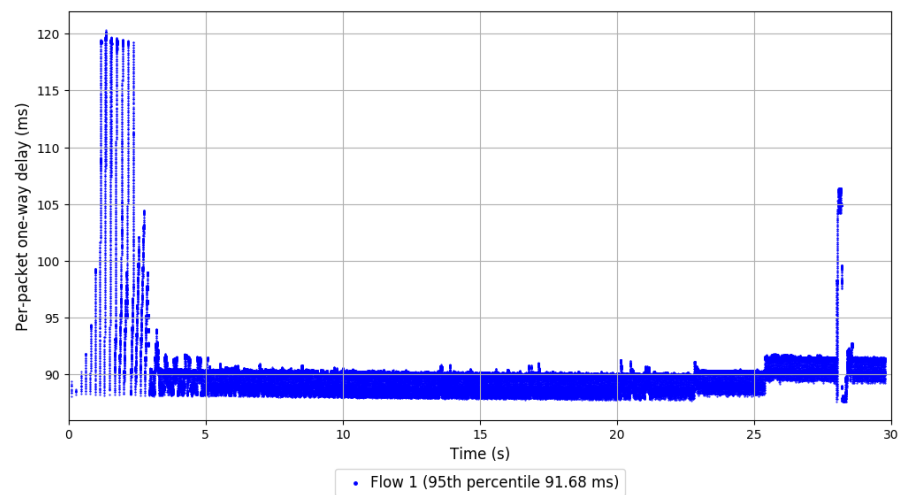
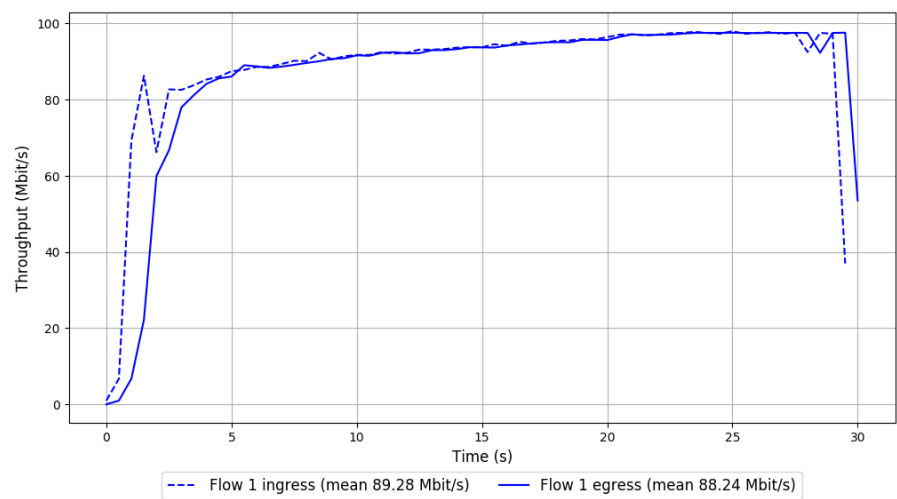
-- Flow 1:

Average throughput: 88.24 Mbit/s

95th percentile per-packet one-way delay: 91.678 ms

Loss rate: 1.17%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-05-21 22:24:39

End at: 2018-05-21 22:25:09

Local clock offset: -1.338 ms

Remote clock offset: 8.002 ms

Below is generated by plot.py at 2018-05-22 00:53:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.88 Mbit/s

95th percentile per-packet one-way delay: 89.169 ms

Loss rate: 1.08%

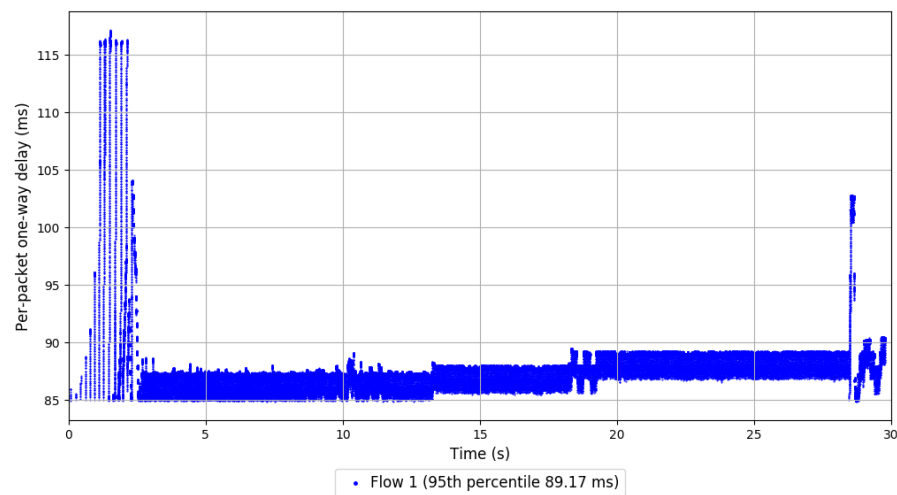
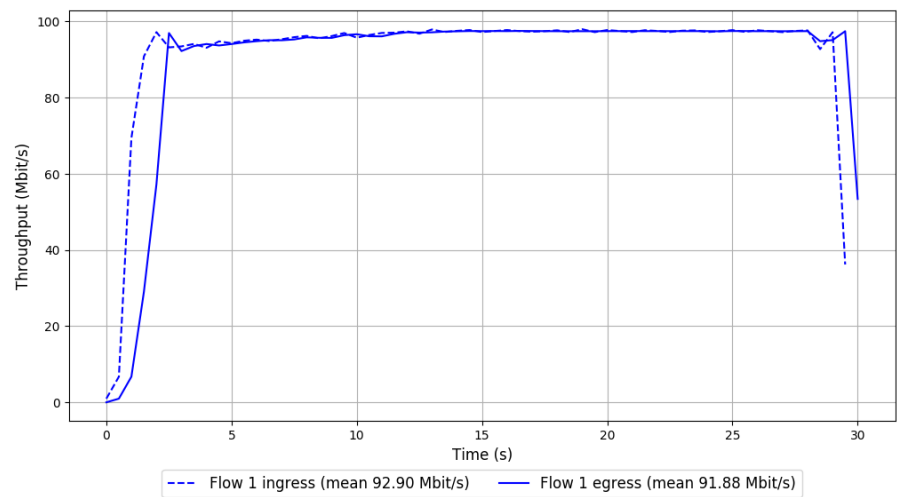
-- Flow 1:

Average throughput: 91.88 Mbit/s

95th percentile per-packet one-way delay: 89.169 ms

Loss rate: 1.08%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-05-21 22:43:09

End at: 2018-05-21 22:43:39

Local clock offset: -4.604 ms

Remote clock offset: 7.37 ms

Below is generated by plot.py at 2018-05-22 00:53:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.89 Mbit/s

95th percentile per-packet one-way delay: 87.569 ms

Loss rate: 1.20%

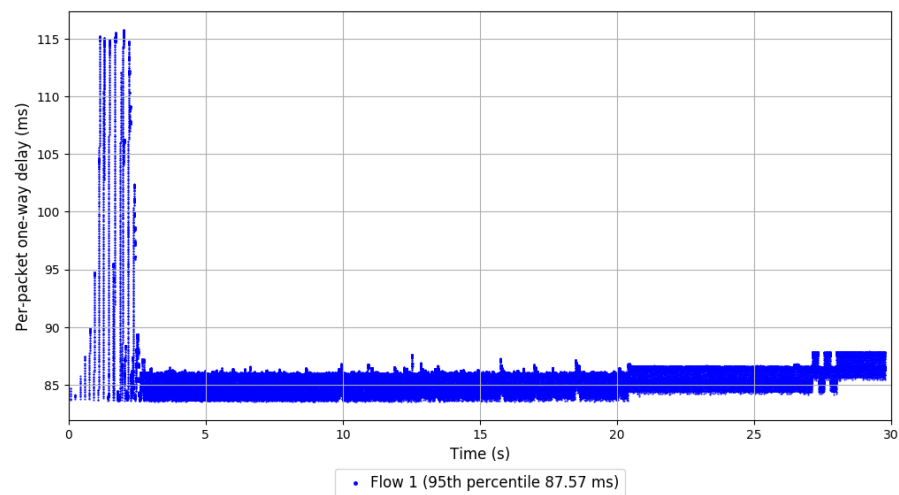
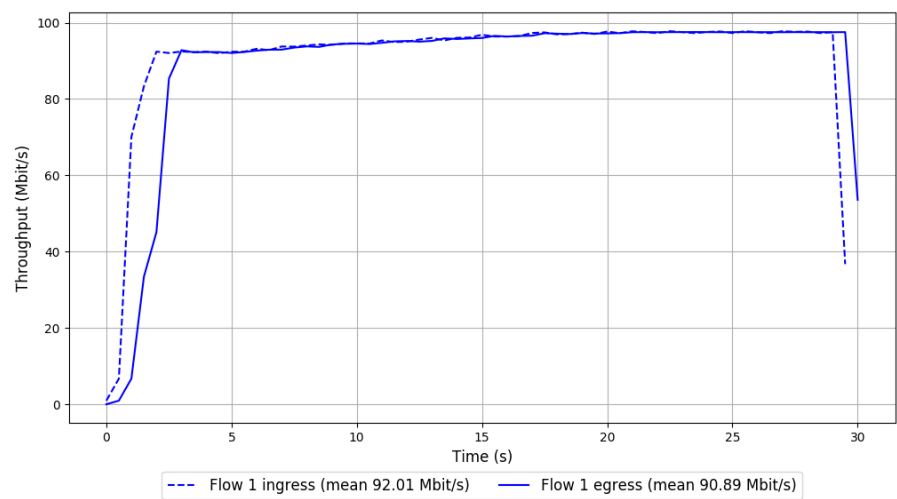
-- Flow 1:

Average throughput: 90.89 Mbit/s

95th percentile per-packet one-way delay: 87.569 ms

Loss rate: 1.20%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-05-21 23:01:39

End at: 2018-05-21 23:02:09

Local clock offset: -3.483 ms

Remote clock offset: 4.706 ms

Below is generated by plot.py at 2018-05-22 00:53:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.82 Mbit/s

95th percentile per-packet one-way delay: 85.449 ms

Loss rate: 0.66%

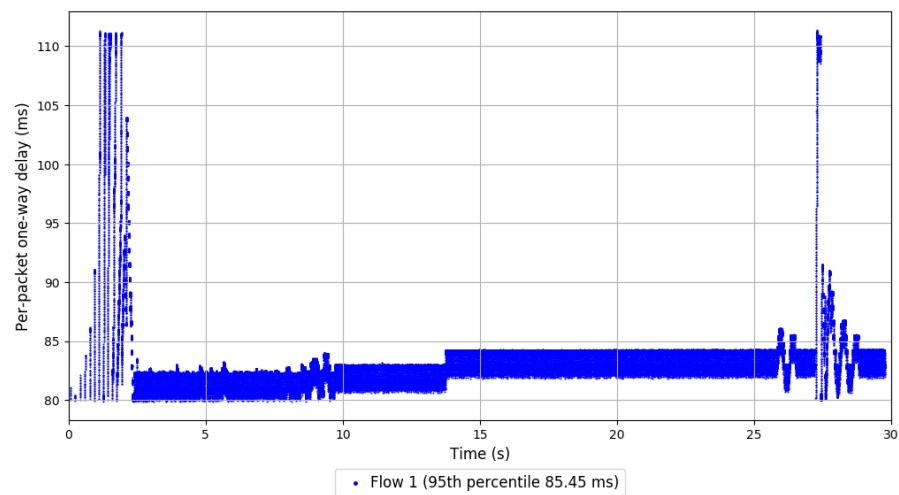
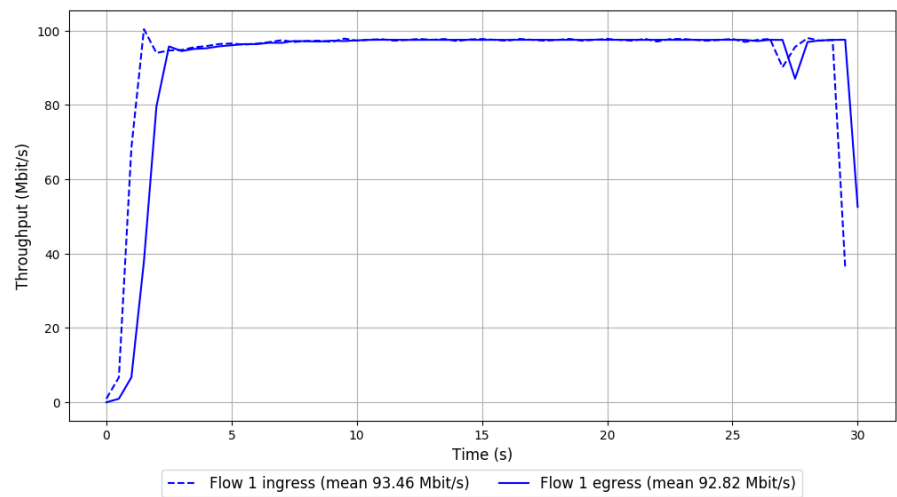
-- Flow 1:

Average throughput: 92.82 Mbit/s

95th percentile per-packet one-way delay: 85.449 ms

Loss rate: 0.66%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-05-21 23:20:12

End at: 2018-05-21 23:20:42

Local clock offset: -1.621 ms

Remote clock offset: 9.105 ms

Below is generated by plot.py at 2018-05-22 00:53:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.32 Mbit/s

95th percentile per-packet one-way delay: 87.652 ms

Loss rate: 0.76%

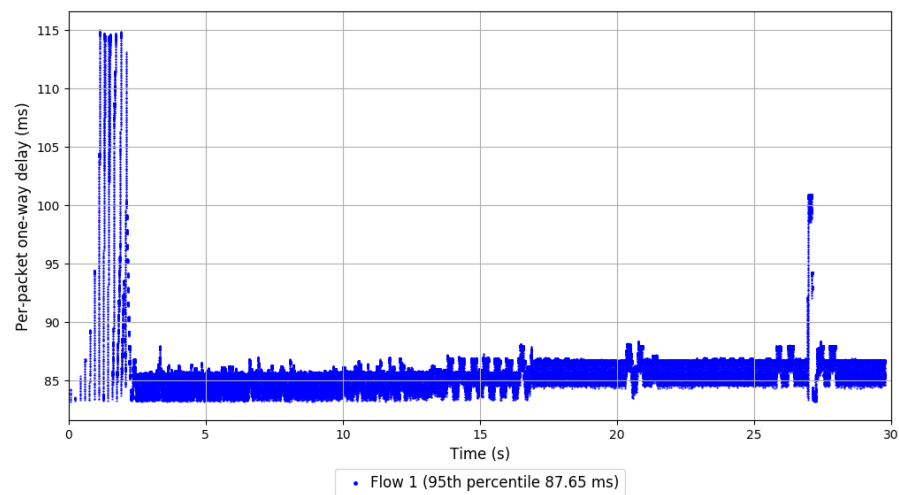
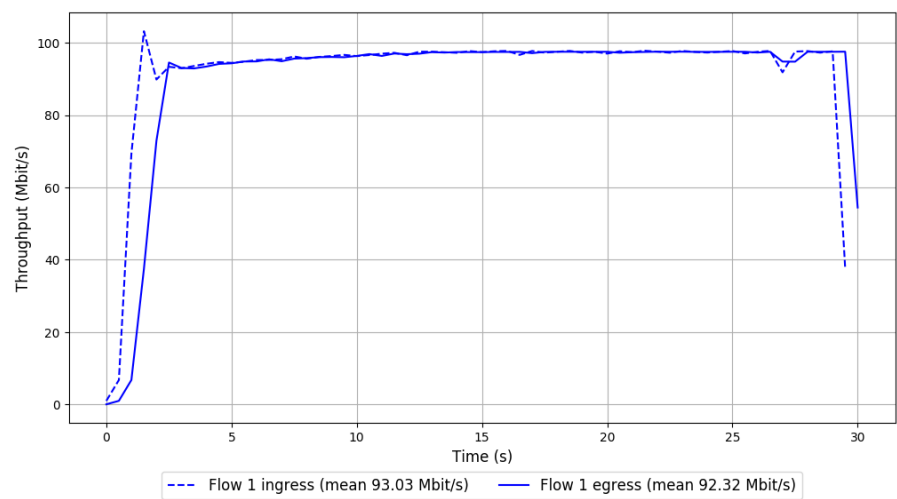
-- Flow 1:

Average throughput: 92.32 Mbit/s

95th percentile per-packet one-way delay: 87.652 ms

Loss rate: 0.76%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-05-21 23:38:43

End at: 2018-05-21 23:39:13

Local clock offset: -3.414 ms

Remote clock offset: 3.933 ms

Below is generated by plot.py at 2018-05-22 00:54:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.90 Mbit/s

95th percentile per-packet one-way delay: 85.198 ms

Loss rate: 0.39%

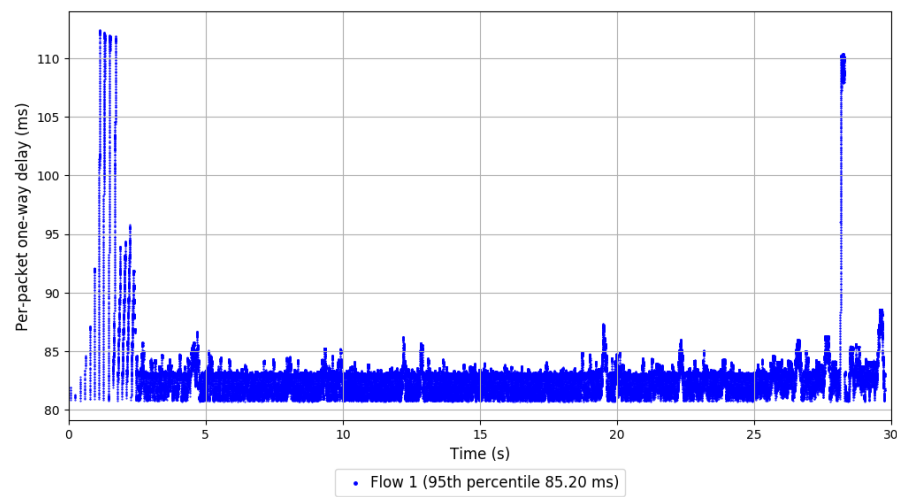
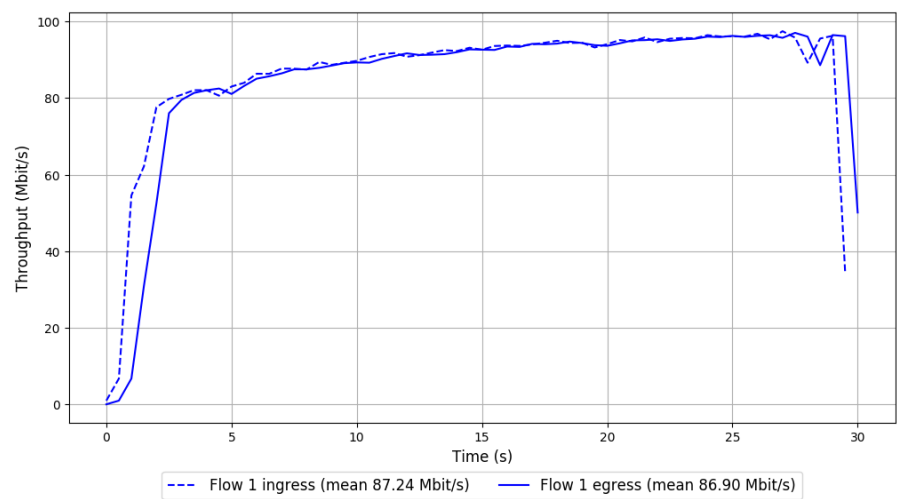
-- Flow 1:

Average throughput: 86.90 Mbit/s

95th percentile per-packet one-way delay: 85.198 ms

Loss rate: 0.39%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-05-21 23:57:10

End at: 2018-05-21 23:57:40

Local clock offset: -4.32 ms

Remote clock offset: 3.921 ms

Below is generated by plot.py at 2018-05-22 00:54:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.91 Mbit/s

95th percentile per-packet one-way delay: 90.708 ms

Loss rate: 1.86%

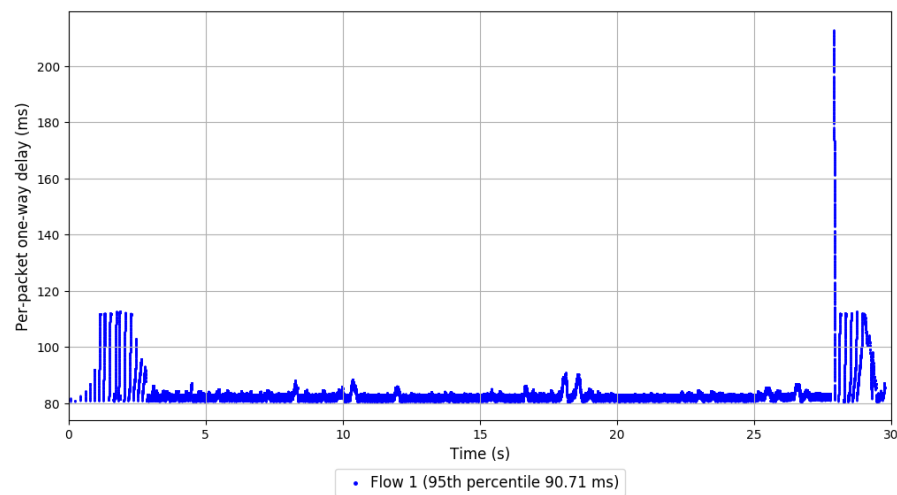
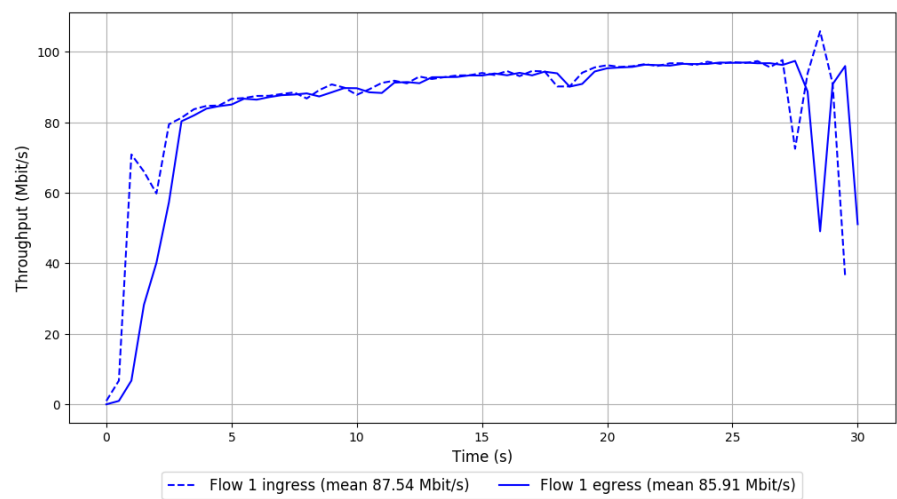
-- Flow 1:

Average throughput: 85.91 Mbit/s

95th percentile per-packet one-way delay: 90.708 ms

Loss rate: 1.86%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-05-22 00:15:39

End at: 2018-05-22 00:16:09

Local clock offset: -6.61 ms

Remote clock offset: 7.601 ms

Below is generated by plot.py at 2018-05-22 00:54:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.71 Mbit/s

95th percentile per-packet one-way delay: 92.449 ms

Loss rate: 0.66%

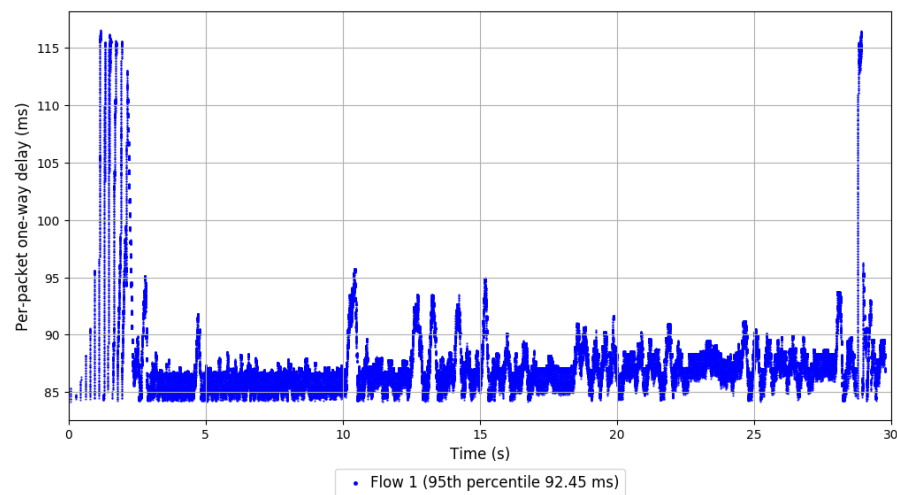
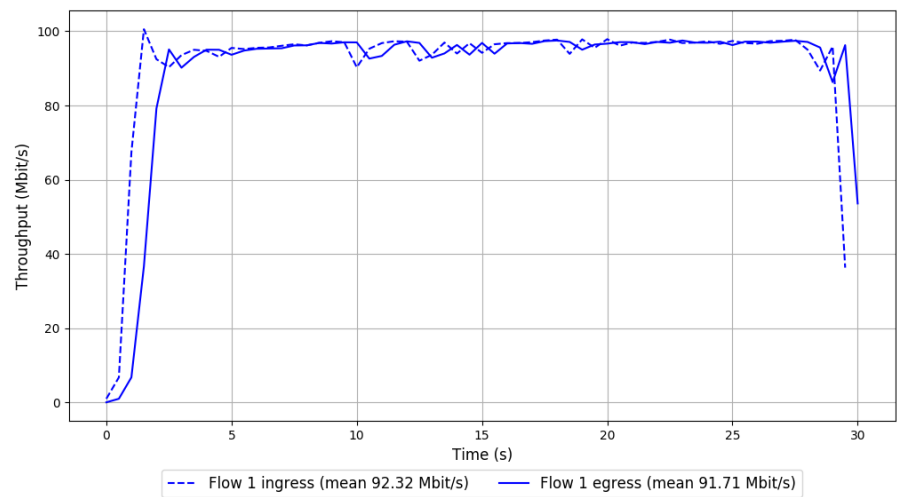
-- Flow 1:

Average throughput: 91.71 Mbit/s

95th percentile per-packet one-way delay: 92.449 ms

Loss rate: 0.66%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-05-22 00:34:10

End at: 2018-05-22 00:34:40

Local clock offset: -4.22 ms

Remote clock offset: 14.045 ms

Below is generated by plot.py at 2018-05-22 00:54:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.76 Mbit/s

95th percentile per-packet one-way delay: 92.559 ms

Loss rate: 0.85%

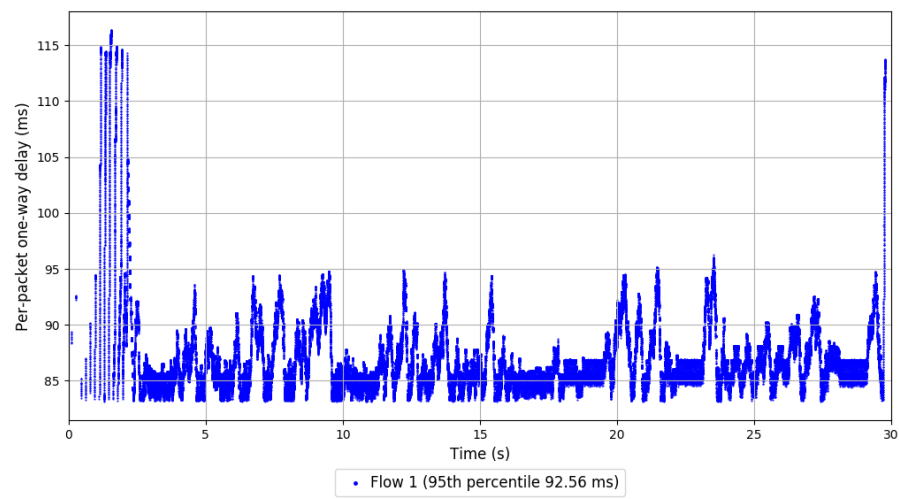
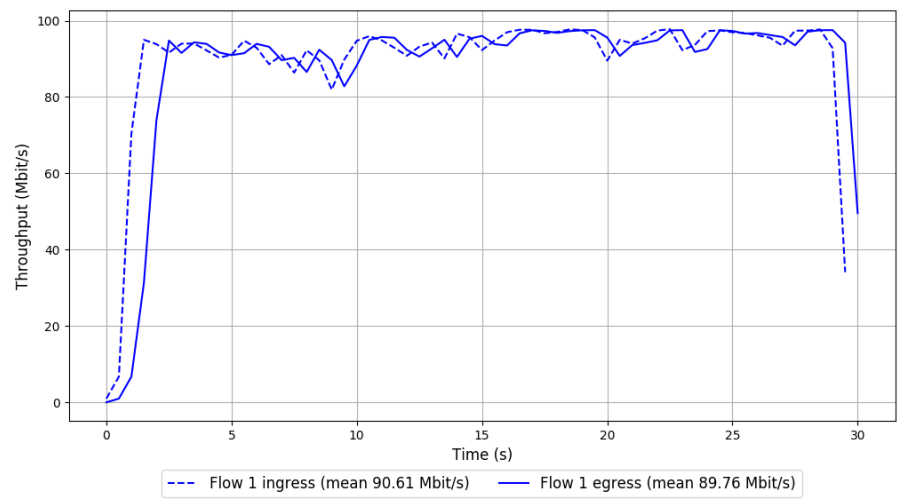
-- Flow 1:

Average throughput: 89.76 Mbit/s

95th percentile per-packet one-way delay: 92.559 ms

Loss rate: 0.85%

Run 10: Report of Indigo — Data Link

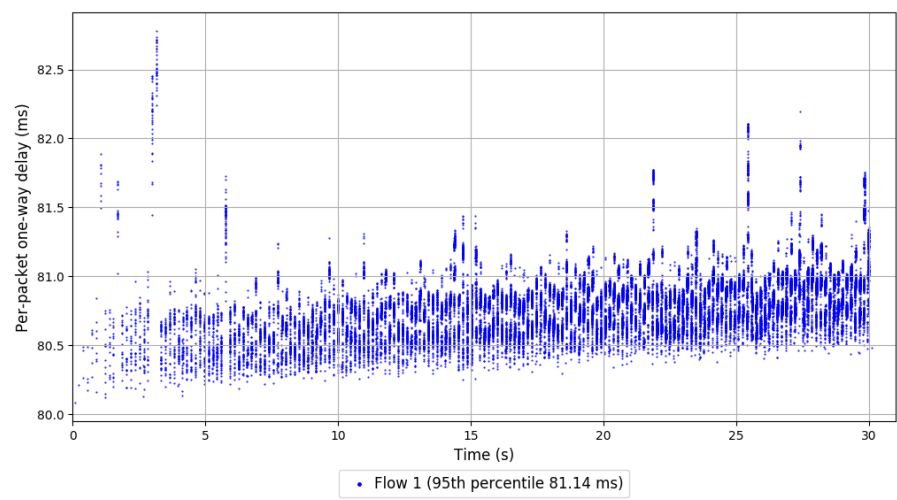
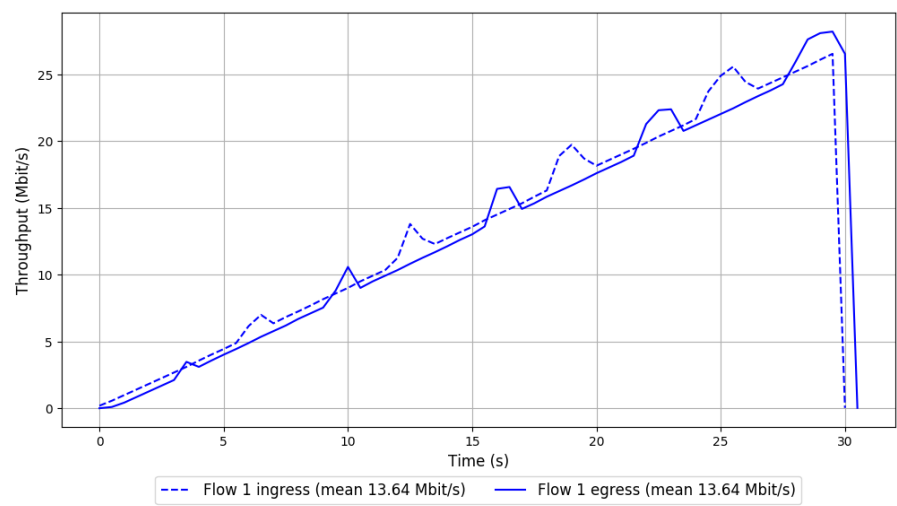


```
Run 1: Statistics of LEDBAT

Start at: 2018-05-21 21:54:41
End at: 2018-05-21 21:55:11
Local clock offset: 32.208 ms
Remote clock offset: 3.829 ms

# Below is generated by plot.py at 2018-05-22 00:54:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.64 Mbit/s
95th percentile per-packet one-way delay: 81.141 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.64 Mbit/s
95th percentile per-packet one-way delay: 81.141 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-05-21 22:13:10

End at: 2018-05-21 22:13:41

Local clock offset: 1.644 ms

Remote clock offset: 3.574 ms

Below is generated by plot.py at 2018-05-22 00:54:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.07 Mbit/s

95th percentile per-packet one-way delay: 81.822 ms

Loss rate: 0.00%

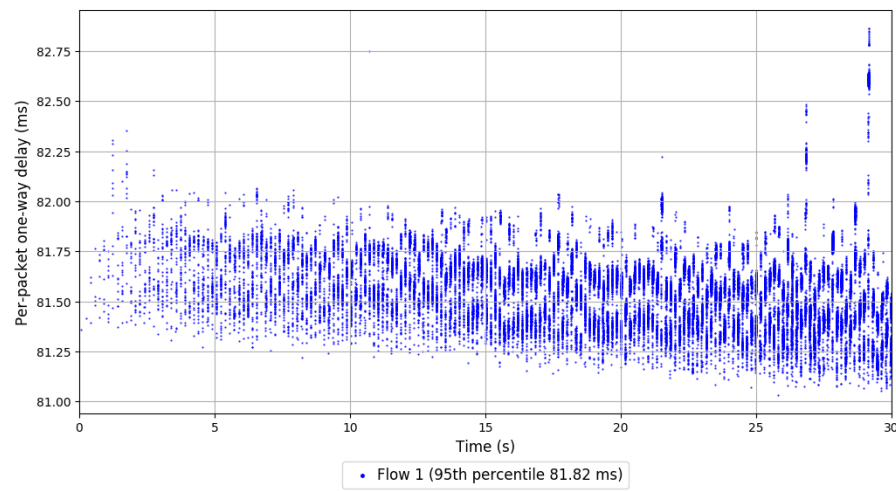
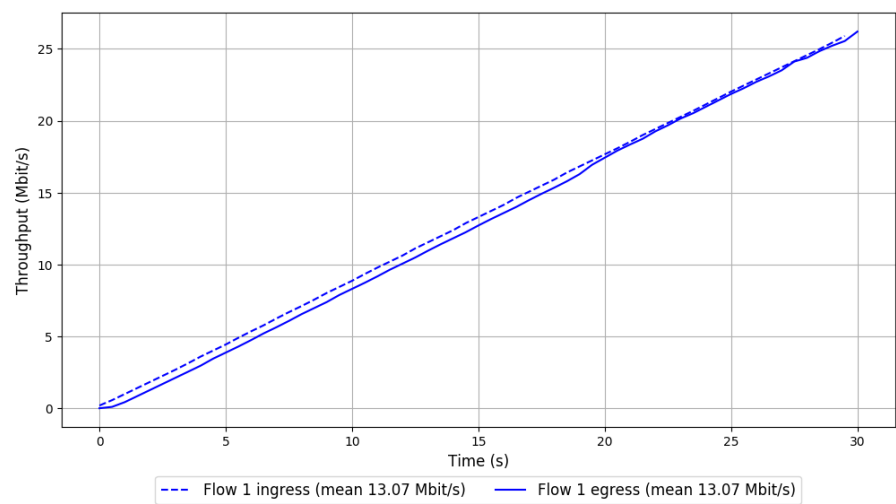
-- Flow 1:

Average throughput: 13.07 Mbit/s

95th percentile per-packet one-way delay: 81.822 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-05-21 22:31:40

End at: 2018-05-21 22:32:10

Local clock offset: -2.172 ms

Remote clock offset: 3.464 ms

Below is generated by plot.py at 2018-05-22 00:54:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.76 Mbit/s

95th percentile per-packet one-way delay: 84.766 ms

Loss rate: 0.00%

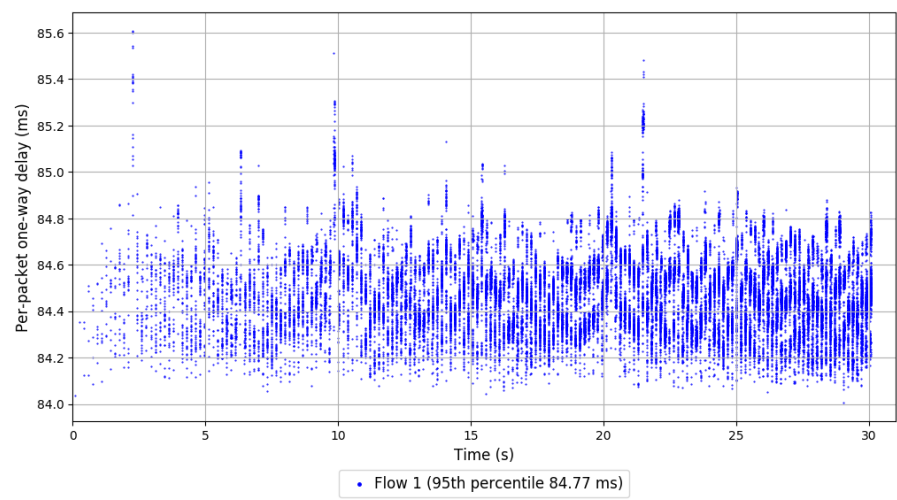
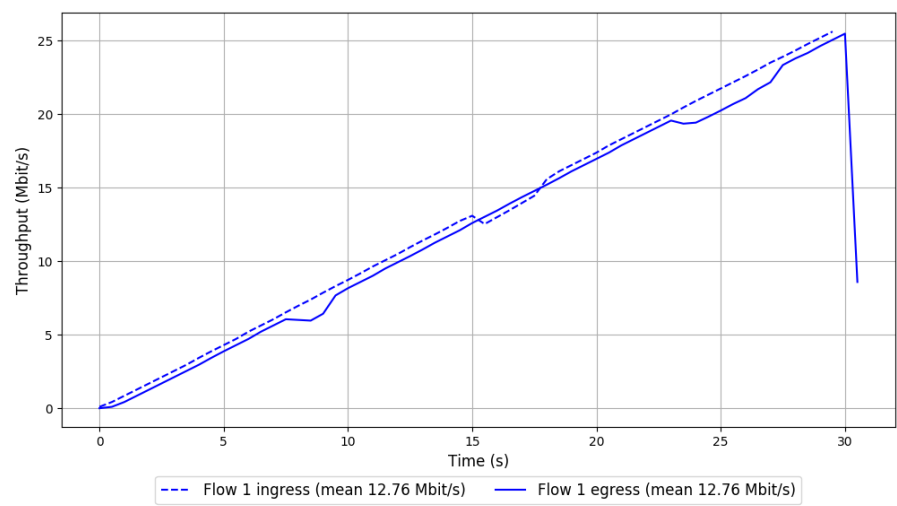
-- Flow 1:

Average throughput: 12.76 Mbit/s

95th percentile per-packet one-way delay: 84.766 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-05-21 22:50:11

End at: 2018-05-21 22:50:41

Local clock offset: -4.174 ms

Remote clock offset: 4.194 ms

Below is generated by plot.py at 2018-05-22 00:54:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 79.920 ms

Loss rate: 0.03%

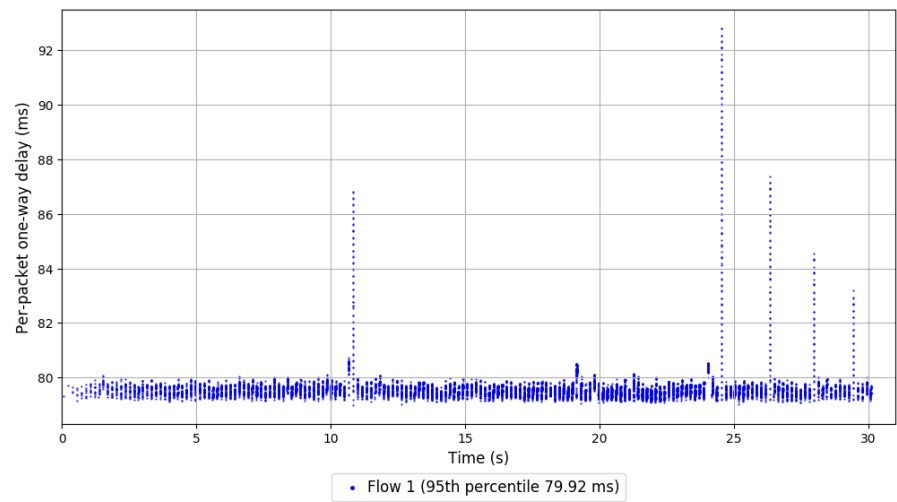
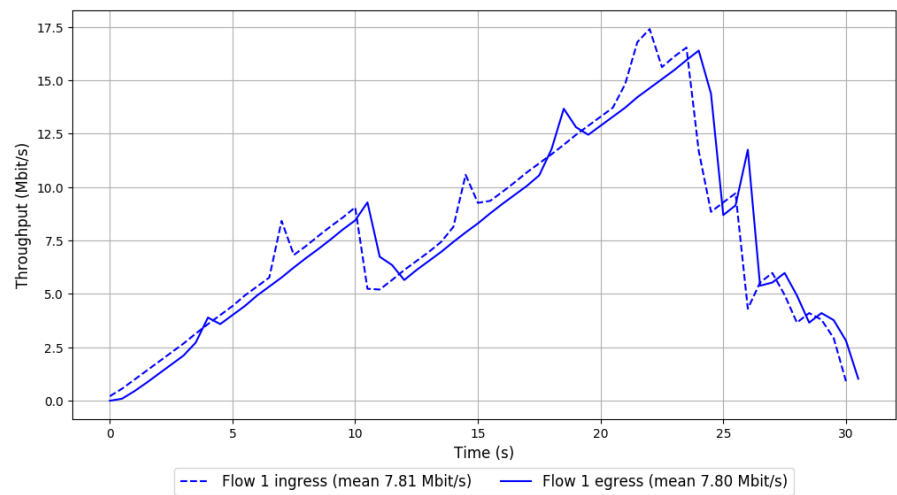
-- Flow 1:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 79.920 ms

Loss rate: 0.03%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-05-21 23:08:45

End at: 2018-05-21 23:09:15

Local clock offset: -2.69 ms

Remote clock offset: 3.995 ms

Below is generated by plot.py at 2018-05-22 00:54:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.34 Mbit/s

95th percentile per-packet one-way delay: 79.148 ms

Loss rate: 0.00%

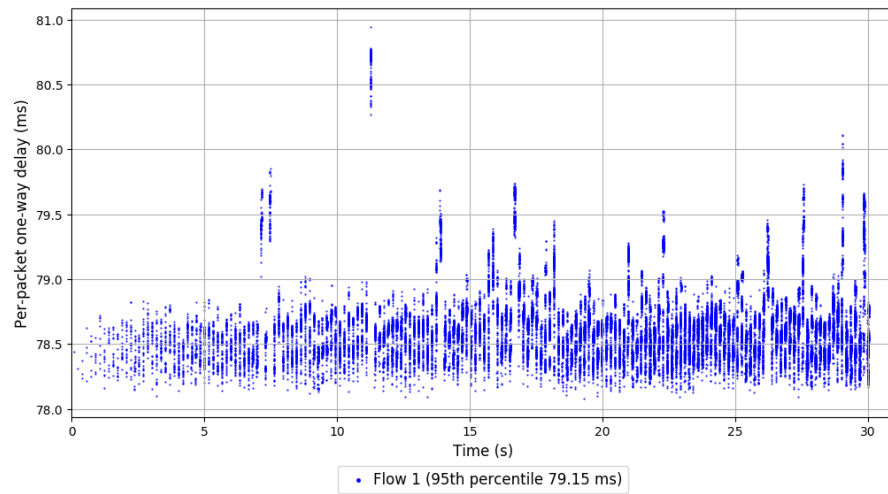
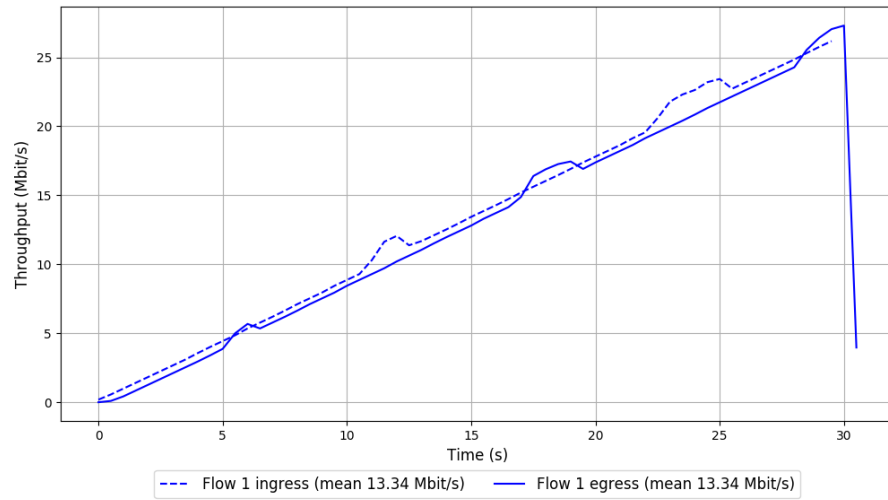
-- Flow 1:

Average throughput: 13.34 Mbit/s

95th percentile per-packet one-way delay: 79.148 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-05-21 23:27:13

End at: 2018-05-21 23:27:43

Local clock offset: -1.702 ms

Remote clock offset: 4.276 ms

Below is generated by plot.py at 2018-05-22 00:54:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.18 Mbit/s

95th percentile per-packet one-way delay: 79.737 ms

Loss rate: 0.01%

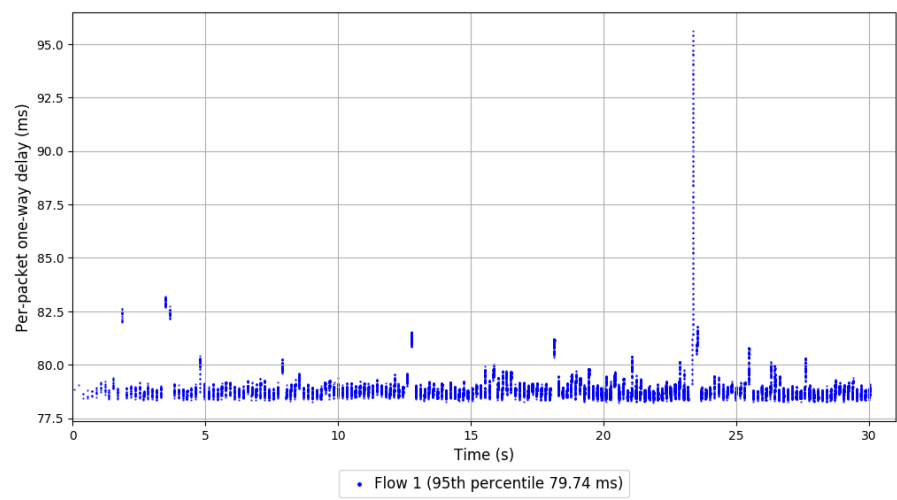
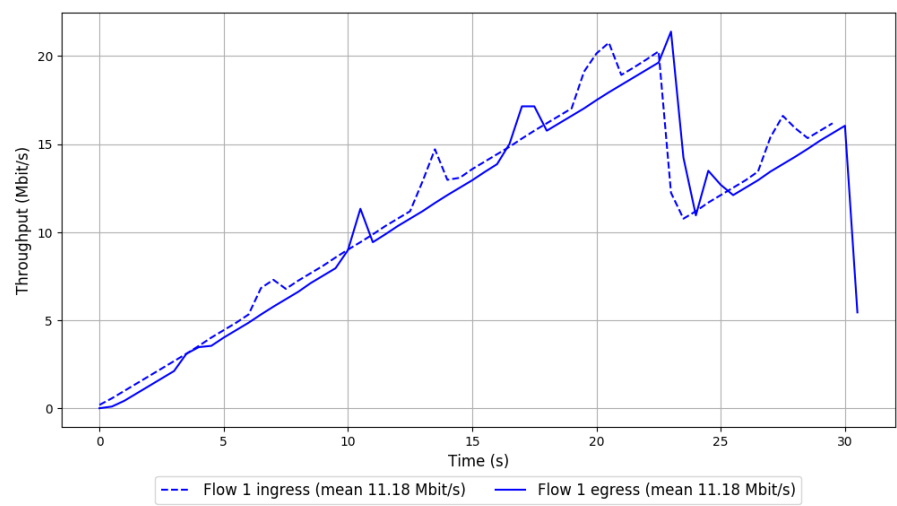
-- Flow 1:

Average throughput: 11.18 Mbit/s

95th percentile per-packet one-way delay: 79.737 ms

Loss rate: 0.01%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-05-21 23:45:44

End at: 2018-05-21 23:46:14

Local clock offset: -3.795 ms

Remote clock offset: 2.986 ms

Below is generated by plot.py at 2018-05-22 00:54:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.15 Mbit/s

95th percentile per-packet one-way delay: 82.386 ms

Loss rate: 0.03%

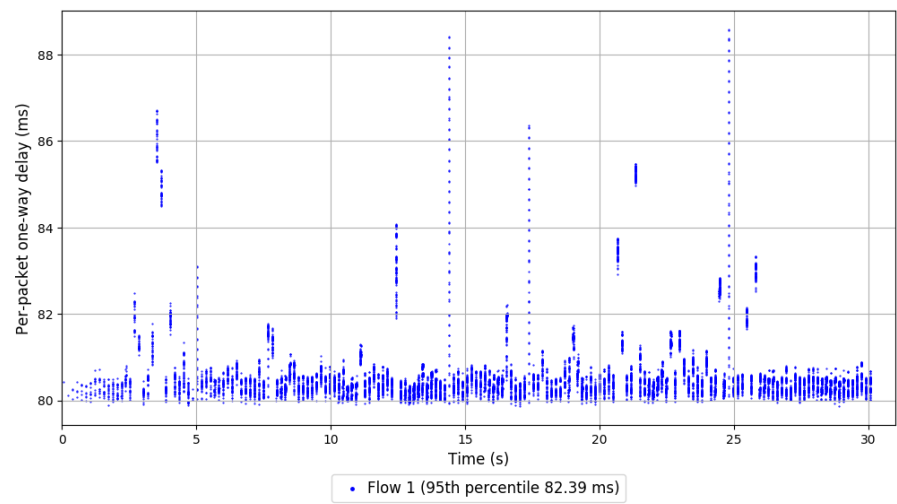
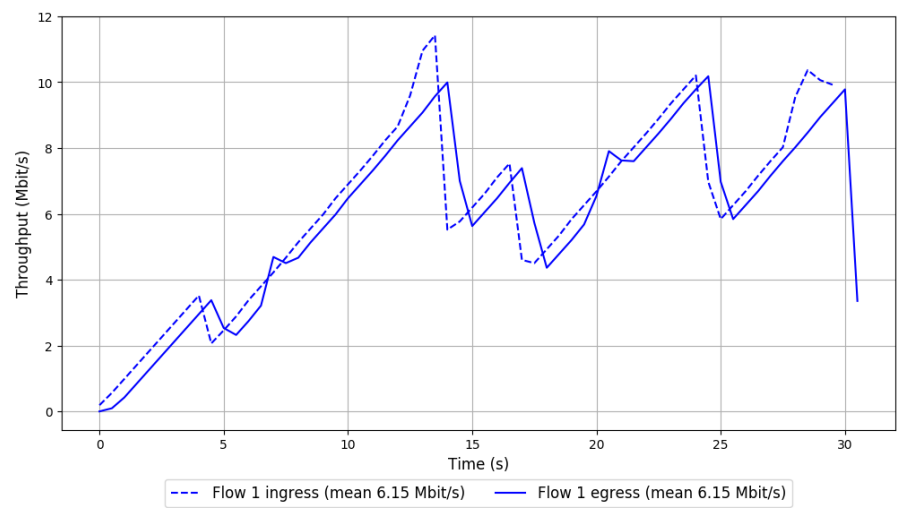
-- Flow 1:

Average throughput: 6.15 Mbit/s

95th percentile per-packet one-way delay: 82.386 ms

Loss rate: 0.03%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-05-22 00:04:11

End at: 2018-05-22 00:04:41

Local clock offset: -5.152 ms

Remote clock offset: 3.075 ms

Below is generated by plot.py at 2018-05-22 00:54:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.33 Mbit/s

95th percentile per-packet one-way delay: 84.770 ms

Loss rate: 0.05%

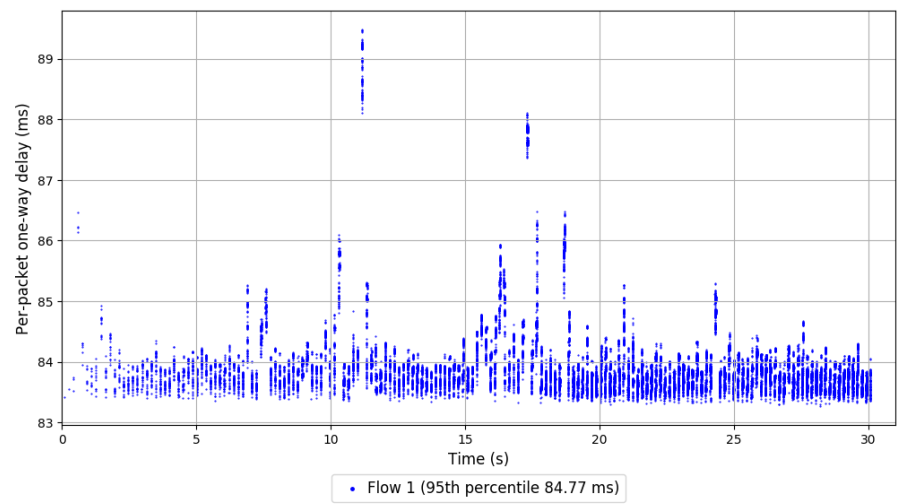
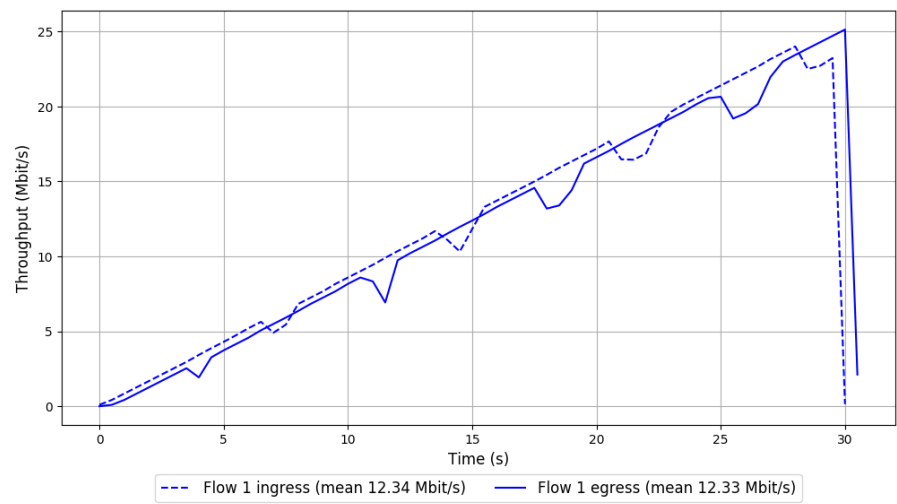
-- Flow 1:

Average throughput: 12.33 Mbit/s

95th percentile per-packet one-way delay: 84.770 ms

Loss rate: 0.05%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-05-22 00:22:41

End at: 2018-05-22 00:23:11

Local clock offset: -7.964 ms

Remote clock offset: 6.787 ms

Below is generated by plot.py at 2018-05-22 00:54:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.51 Mbit/s

95th percentile per-packet one-way delay: 84.610 ms

Loss rate: 0.00%

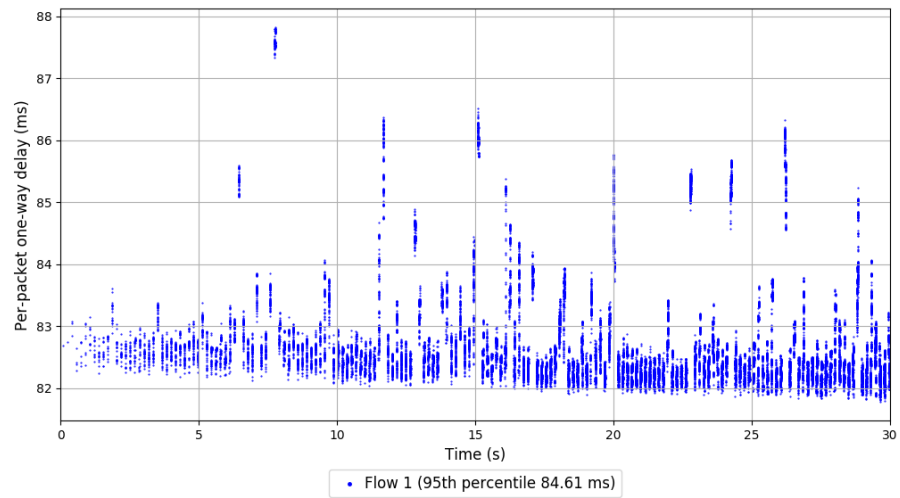
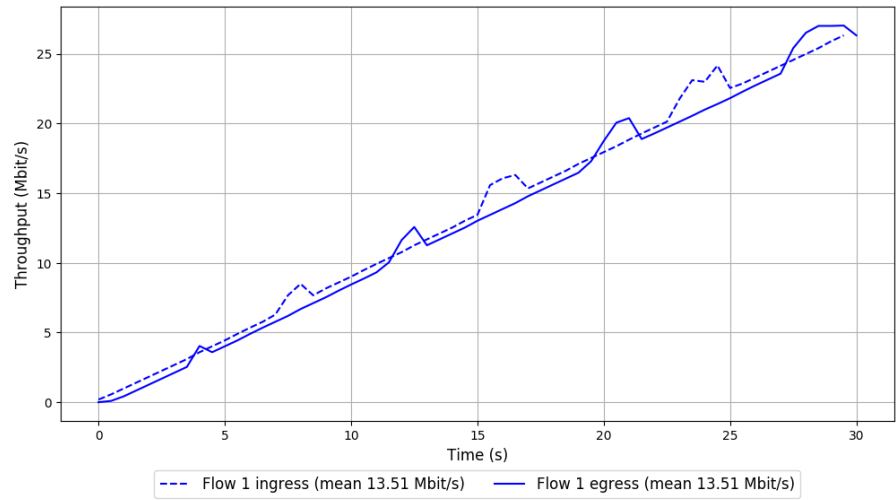
-- Flow 1:

Average throughput: 13.51 Mbit/s

95th percentile per-packet one-way delay: 84.610 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link

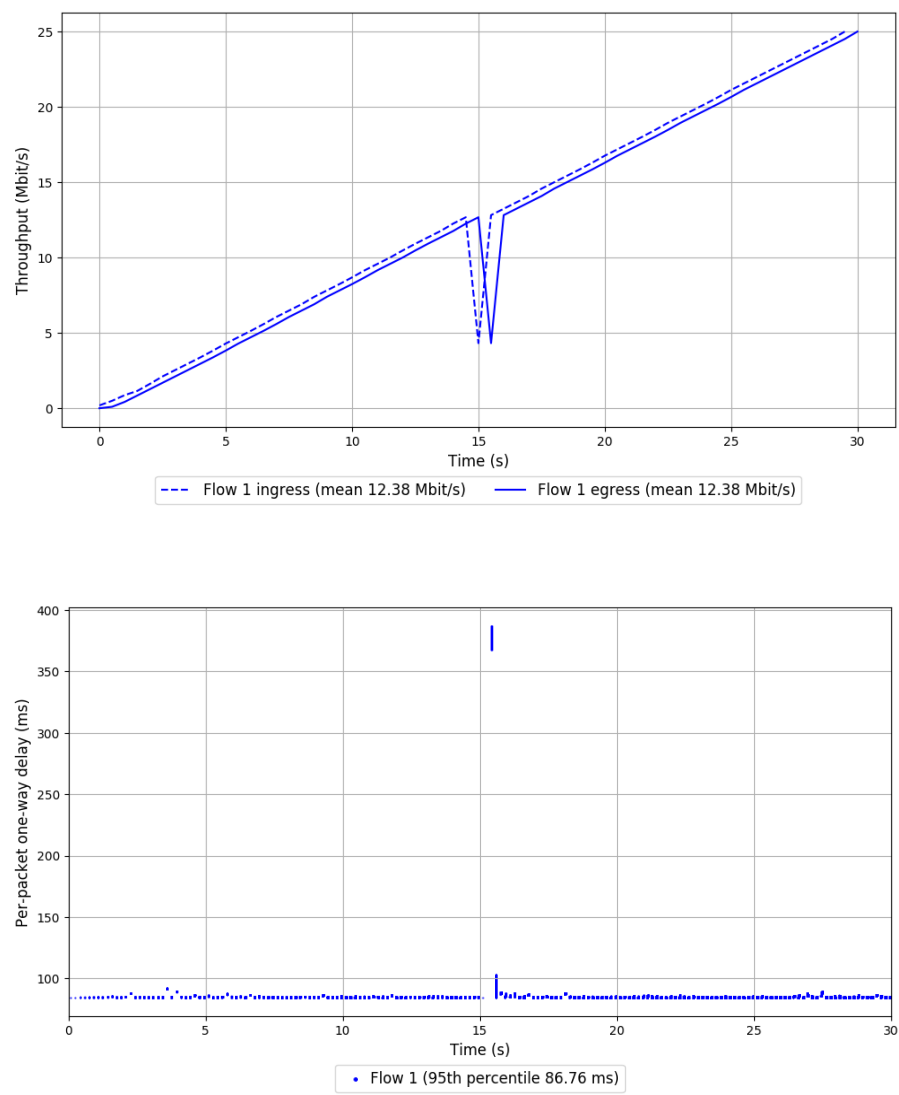


Run 10: Statistics of LEDBAT

Start at: 2018-05-22 00:41:10
End at: 2018-05-22 00:41:40
Local clock offset: -3.768 ms
Remote clock offset: 15.107 ms

Below is generated by plot.py at 2018-05-22 00:54:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.38 Mbit/s
95th percentile per-packet one-way delay: 86.759 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.38 Mbit/s
95th percentile per-packet one-way delay: 86.759 ms
Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

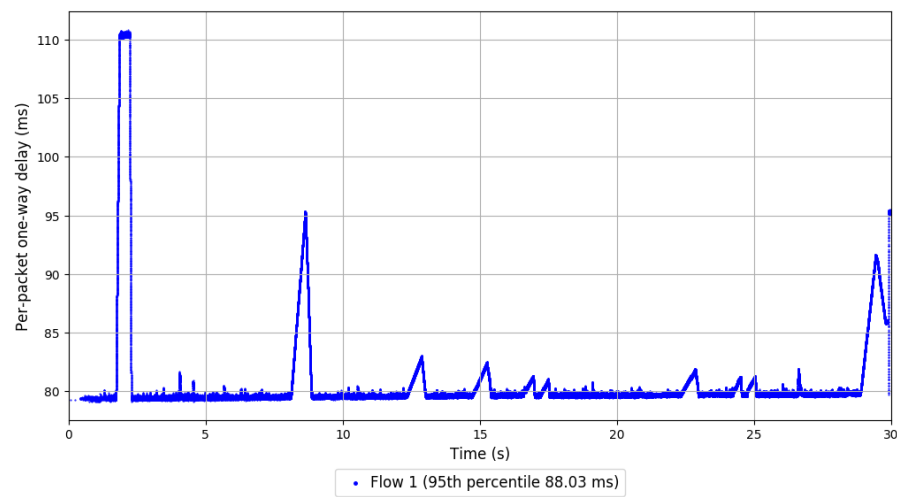
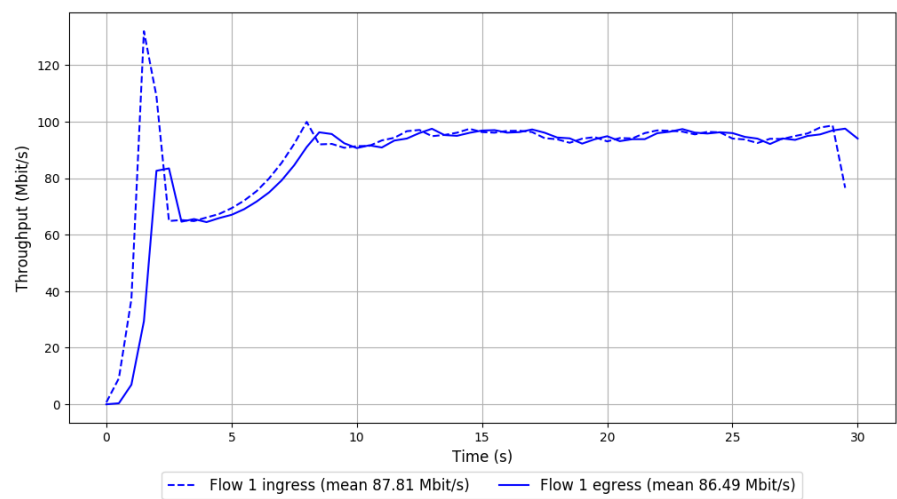


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-05-21 21:52:21
End at: 2018-05-21 21:52:51
Local clock offset: 32.236 ms
Remote clock offset: 2.882 ms

# Below is generated by plot.py at 2018-05-22 00:55:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.49 Mbit/s
95th percentile per-packet one-way delay: 88.035 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 86.49 Mbit/s
95th percentile per-packet one-way delay: 88.035 ms
Loss rate: 1.44%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-21 22:10:51

End at: 2018-05-21 22:11:21

Local clock offset: 4.139 ms

Remote clock offset: 7.307 ms

Below is generated by plot.py at 2018-05-22 00:55:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.60 Mbit/s

95th percentile per-packet one-way delay: 95.784 ms

Loss rate: 1.47%

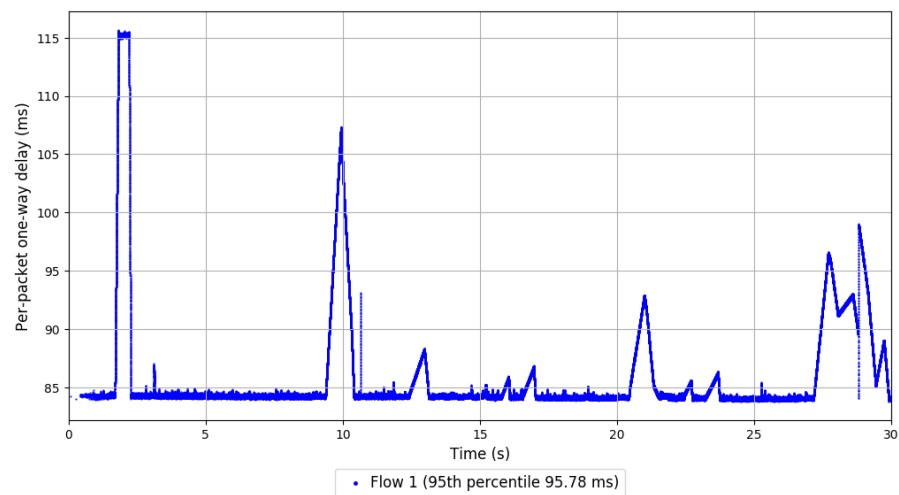
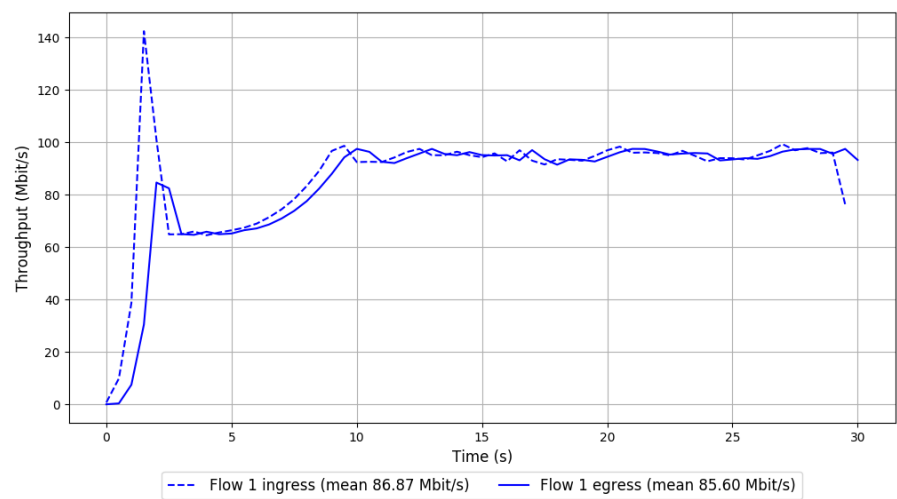
-- Flow 1:

Average throughput: 85.60 Mbit/s

95th percentile per-packet one-way delay: 95.784 ms

Loss rate: 1.47%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-05-21 22:29:20

End at: 2018-05-21 22:29:50

Local clock offset: -3.572 ms

Remote clock offset: 7.953 ms

Below is generated by plot.py at 2018-05-22 00:55:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.71 Mbit/s

95th percentile per-packet one-way delay: 101.969 ms

Loss rate: 1.39%

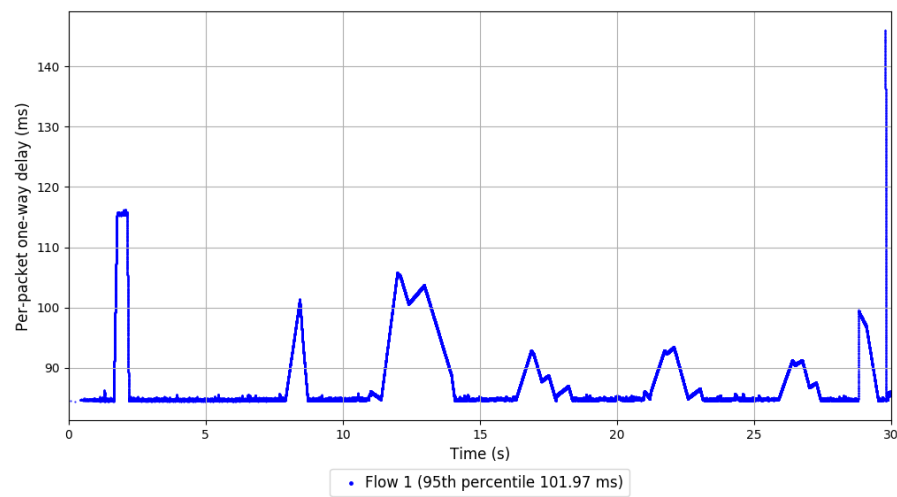
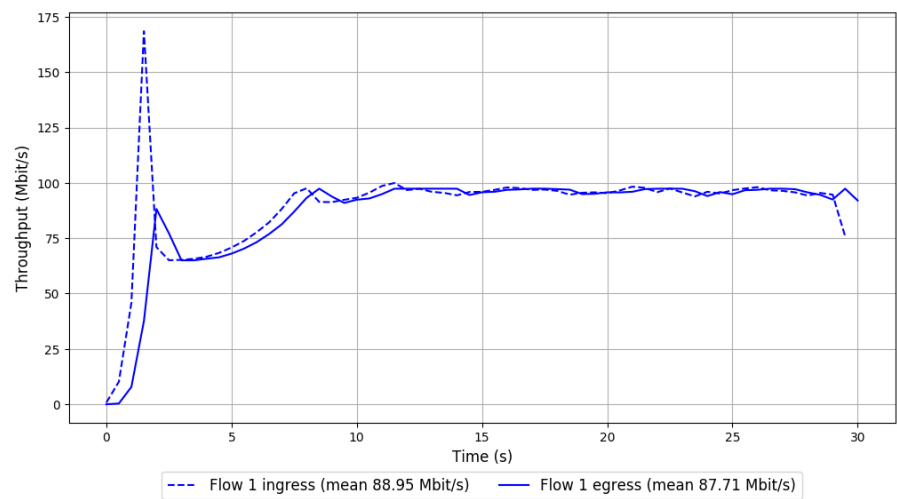
-- Flow 1:

Average throughput: 87.71 Mbit/s

95th percentile per-packet one-way delay: 101.969 ms

Loss rate: 1.39%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-05-21 22:47:50

End at: 2018-05-21 22:48:20

Local clock offset: -4.03 ms

Remote clock offset: 7.235 ms

Below is generated by plot.py at 2018-05-22 00:55:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.98 Mbit/s

95th percentile per-packet one-way delay: 90.810 ms

Loss rate: 1.42%

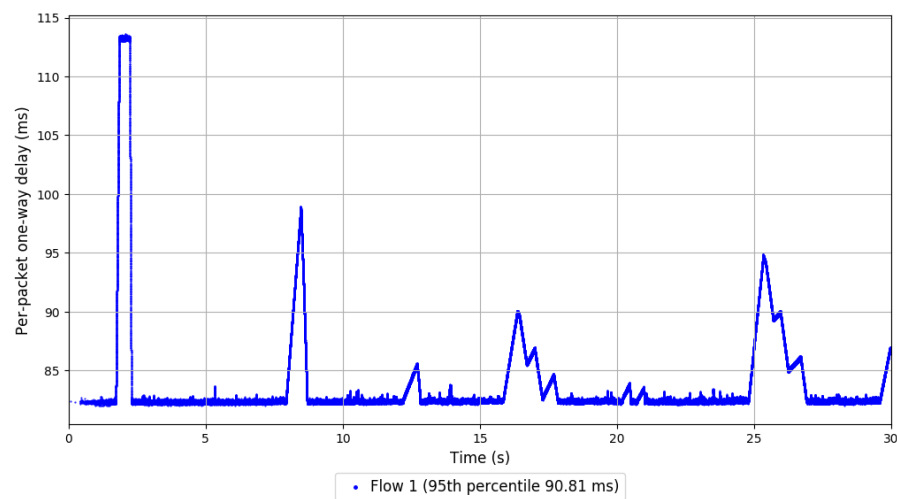
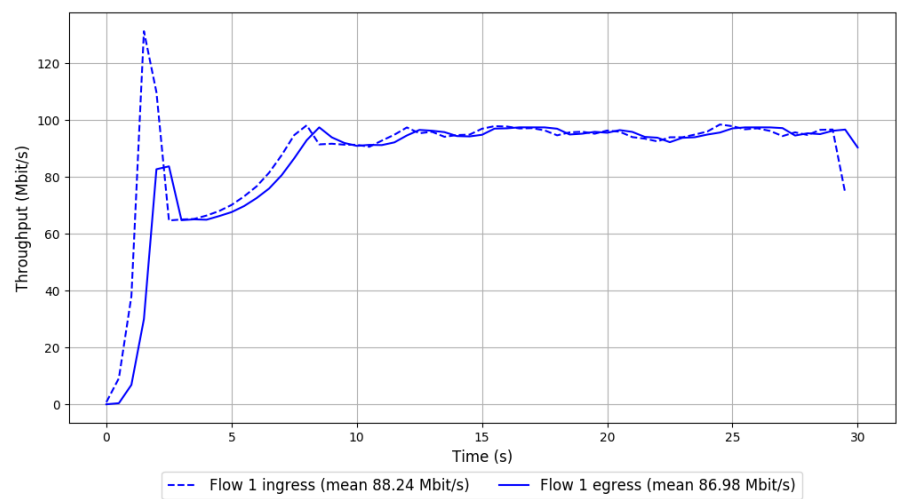
-- Flow 1:

Average throughput: 86.98 Mbit/s

95th percentile per-packet one-way delay: 90.810 ms

Loss rate: 1.42%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-05-21 23:06:20

End at: 2018-05-21 23:06:50

Local clock offset: -2.949 ms

Remote clock offset: 4.907 ms

Below is generated by plot.py at 2018-05-22 00:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.44 Mbit/s

95th percentile per-packet one-way delay: 96.450 ms

Loss rate: 1.37%

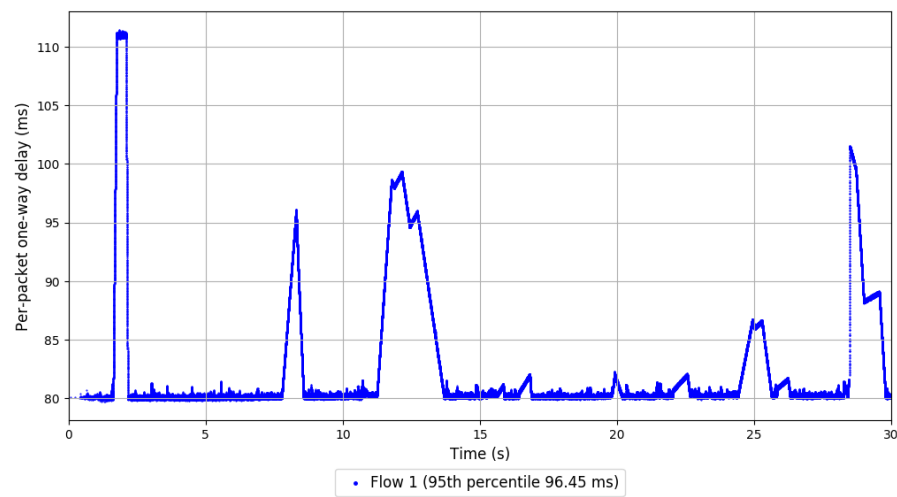
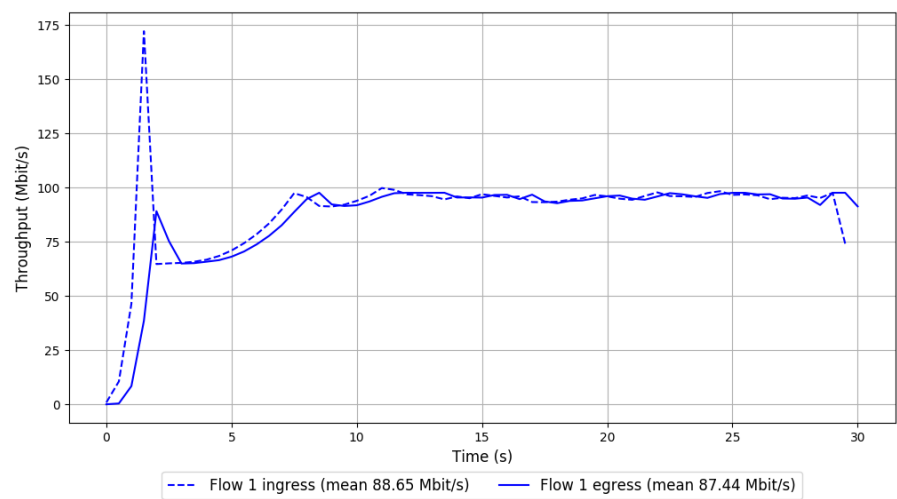
-- Flow 1:

Average throughput: 87.44 Mbit/s

95th percentile per-packet one-way delay: 96.450 ms

Loss rate: 1.37%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-05-21 23:24:53

End at: 2018-05-21 23:25:23

Local clock offset: -1.626 ms

Remote clock offset: 8.925 ms

Below is generated by plot.py at 2018-05-22 00:55:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.33 Mbit/s

95th percentile per-packet one-way delay: 99.491 ms

Loss rate: 1.44%

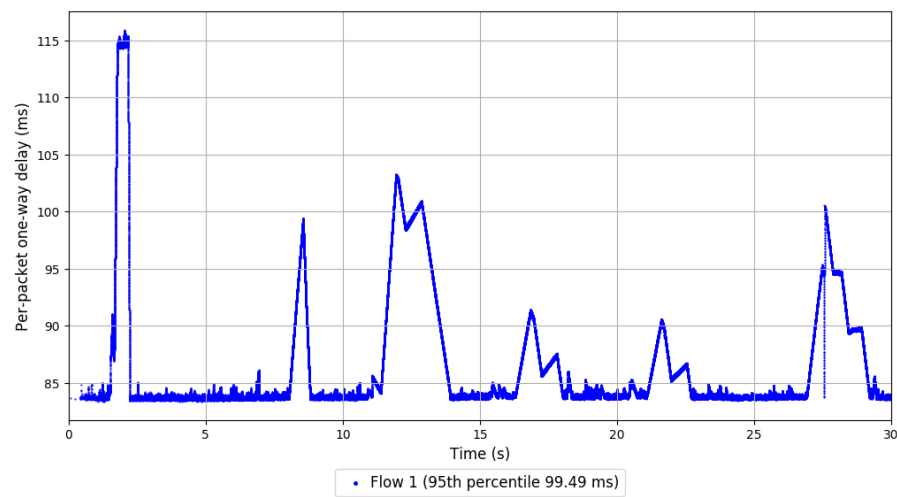
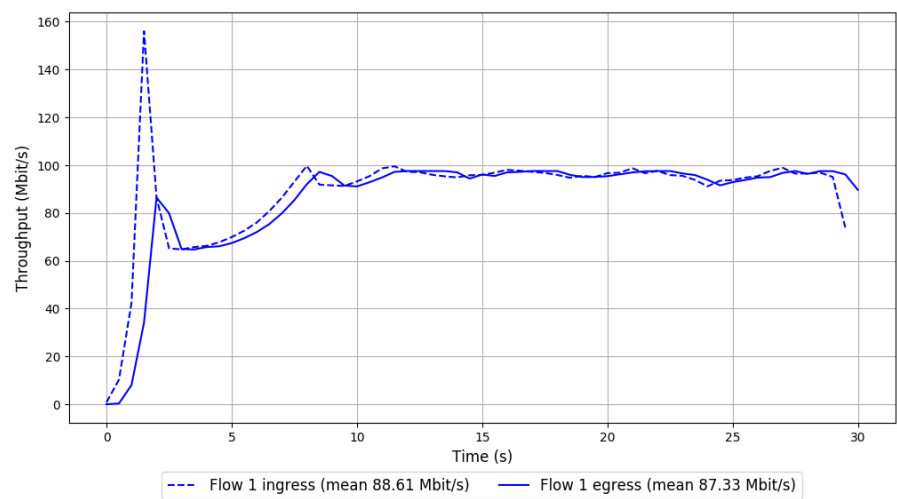
-- Flow 1:

Average throughput: 87.33 Mbit/s

95th percentile per-packet one-way delay: 99.491 ms

Loss rate: 1.44%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-05-21 23:43:24

End at: 2018-05-21 23:43:54

Local clock offset: -3.621 ms

Remote clock offset: 7.633 ms

Below is generated by plot.py at 2018-05-22 00:55:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.79 Mbit/s

95th percentile per-packet one-way delay: 91.634 ms

Loss rate: 1.72%

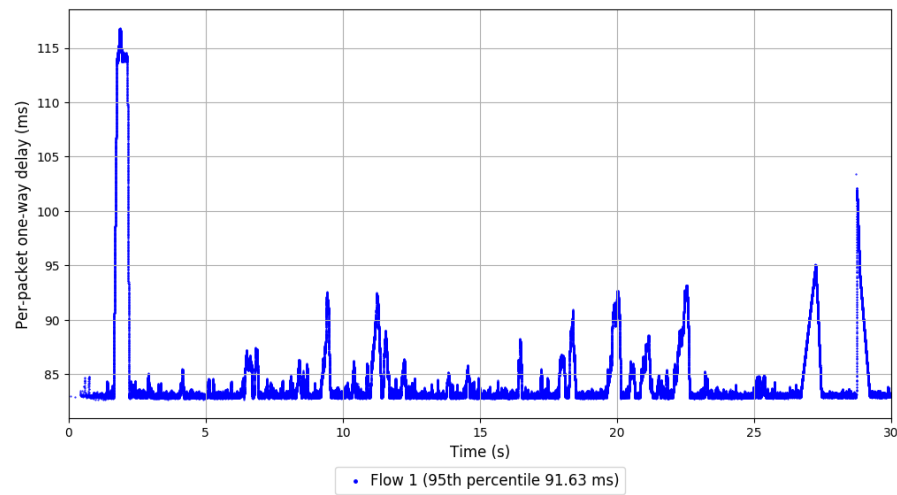
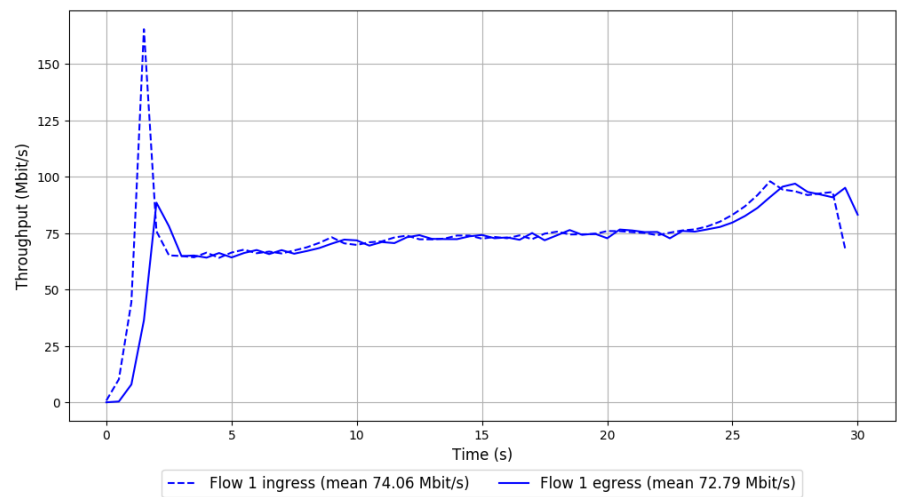
-- Flow 1:

Average throughput: 72.79 Mbit/s

95th percentile per-packet one-way delay: 91.634 ms

Loss rate: 1.72%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-05-22 00:01:52

End at: 2018-05-22 00:02:22

Local clock offset: -5.506 ms

Remote clock offset: 7.673 ms

Below is generated by plot.py at 2018-05-22 00:55:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.33 Mbit/s

95th percentile per-packet one-way delay: 98.643 ms

Loss rate: 1.64%

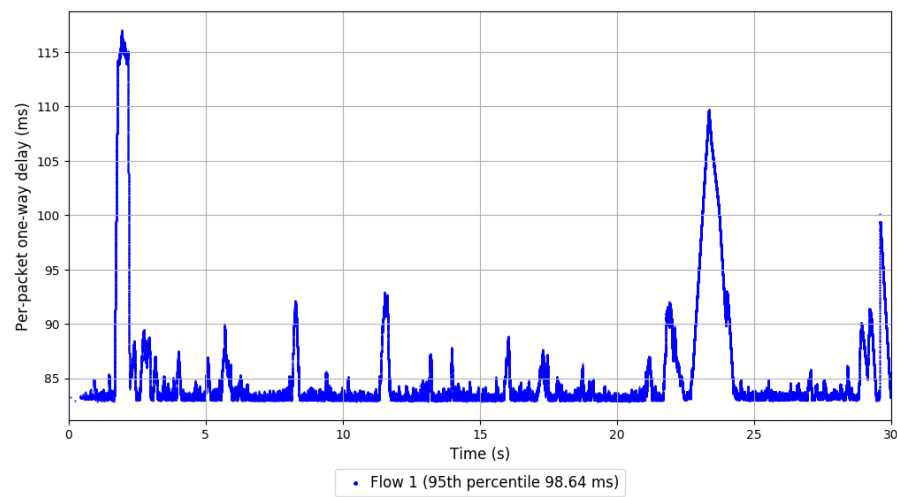
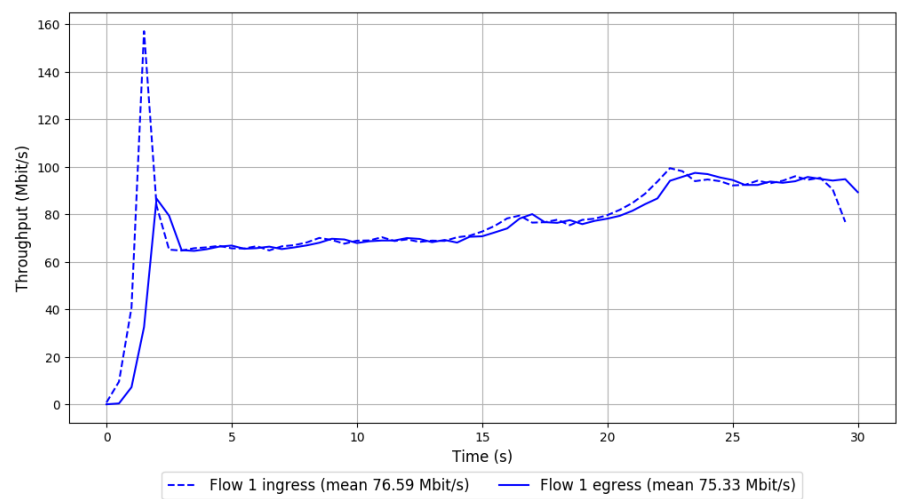
-- Flow 1:

Average throughput: 75.33 Mbit/s

95th percentile per-packet one-way delay: 98.643 ms

Loss rate: 1.64%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-05-22 00:20:21

End at: 2018-05-22 00:20:51

Local clock offset: -8.545 ms

Remote clock offset: 3.027 ms

Below is generated by plot.py at 2018-05-22 00:56:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.17 Mbit/s

95th percentile per-packet one-way delay: 99.647 ms

Loss rate: 1.42%

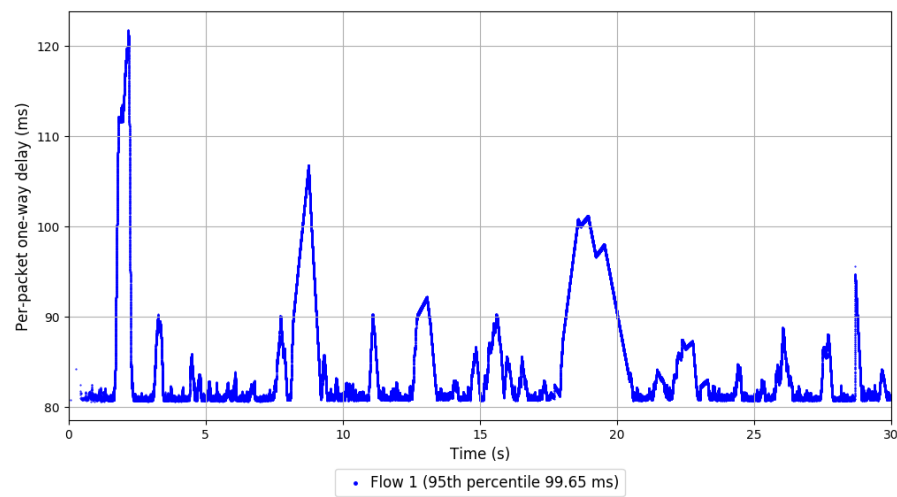
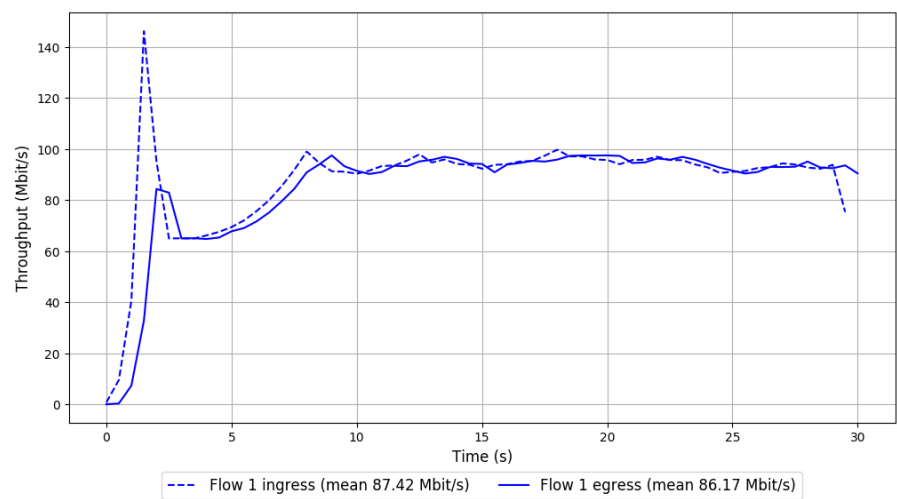
-- Flow 1:

Average throughput: 86.17 Mbit/s

95th percentile per-packet one-way delay: 99.647 ms

Loss rate: 1.42%

Run 9: Report of PCC-Allegro — Data Link

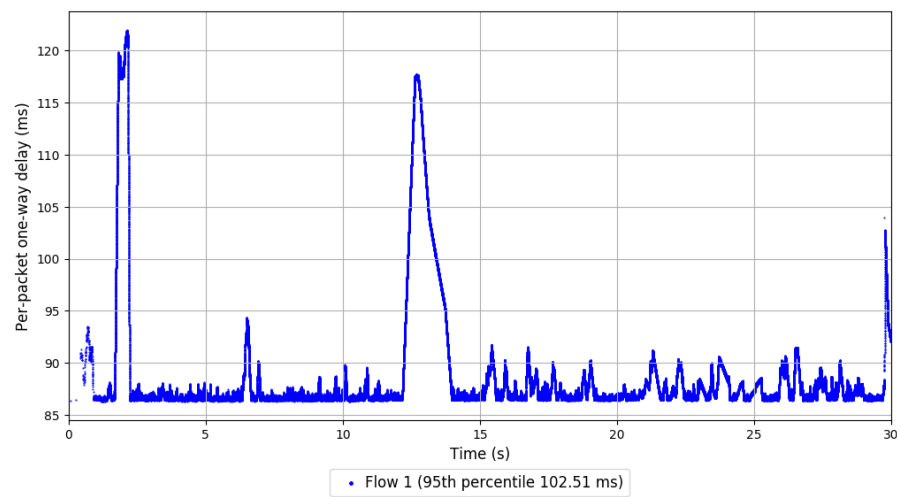
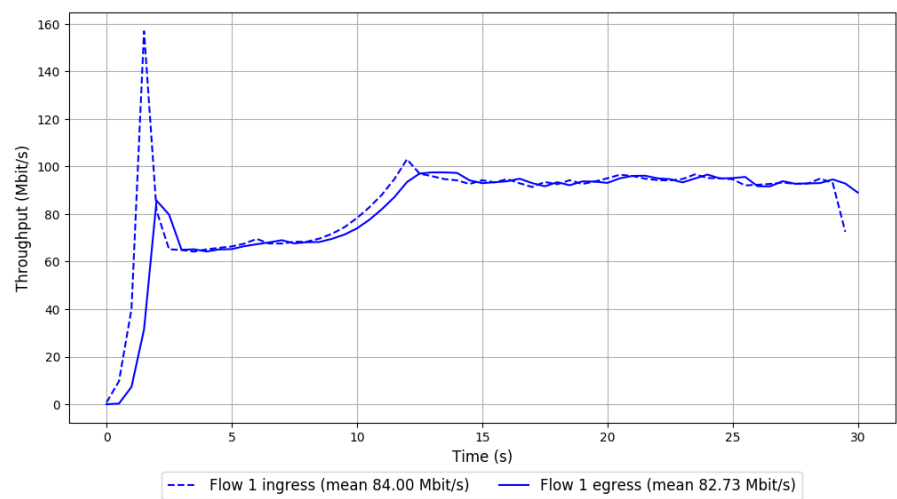


Run 10: Statistics of PCC-Allegro

Start at: 2018-05-22 00:38:52
End at: 2018-05-22 00:39:22
Local clock offset: -4.846 ms
Remote clock offset: 15.373 ms

Below is generated by plot.py at 2018-05-22 00:56:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 82.73 Mbit/s
95th percentile per-packet one-way delay: 102.514 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 82.73 Mbit/s
95th percentile per-packet one-way delay: 102.514 ms
Loss rate: 1.49%

Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

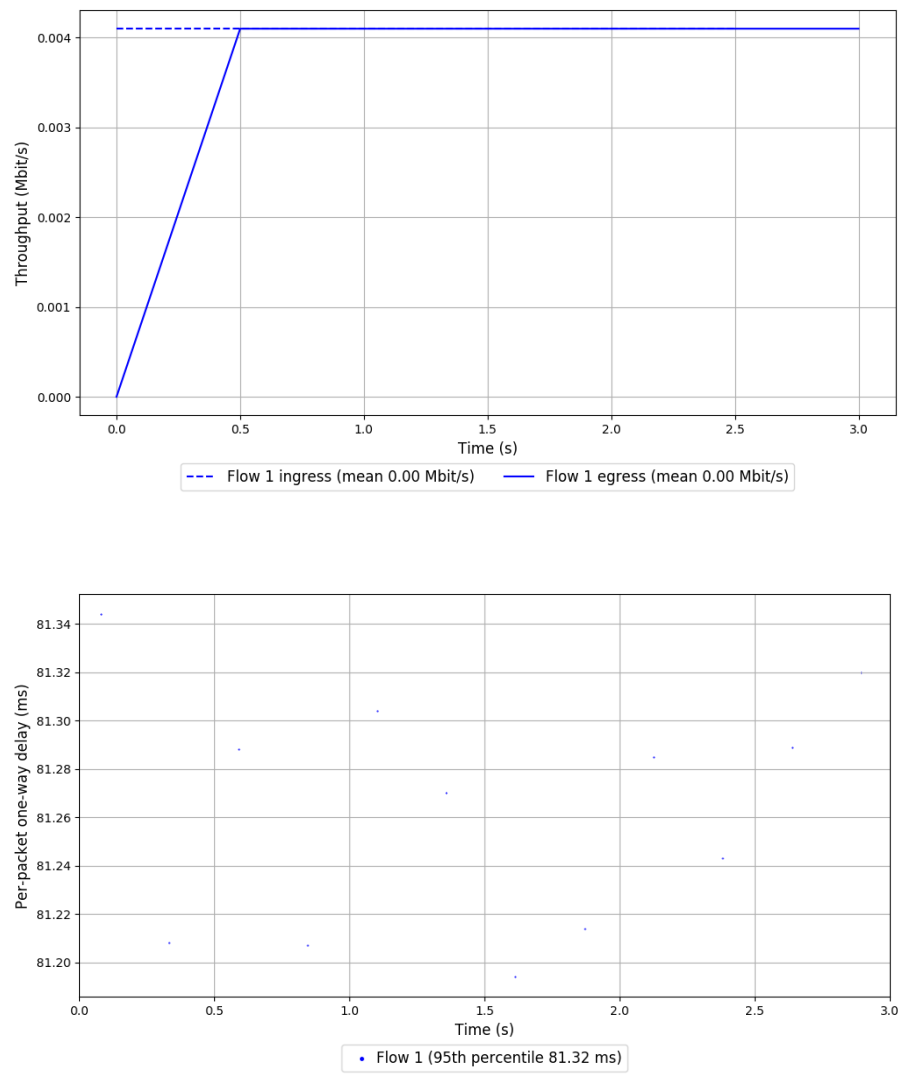
Start at: 2018-05-21 21:41:56

End at: 2018-05-21 21:42:26

Local clock offset: 23.897 ms

Remote clock offset: 3.181 ms

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

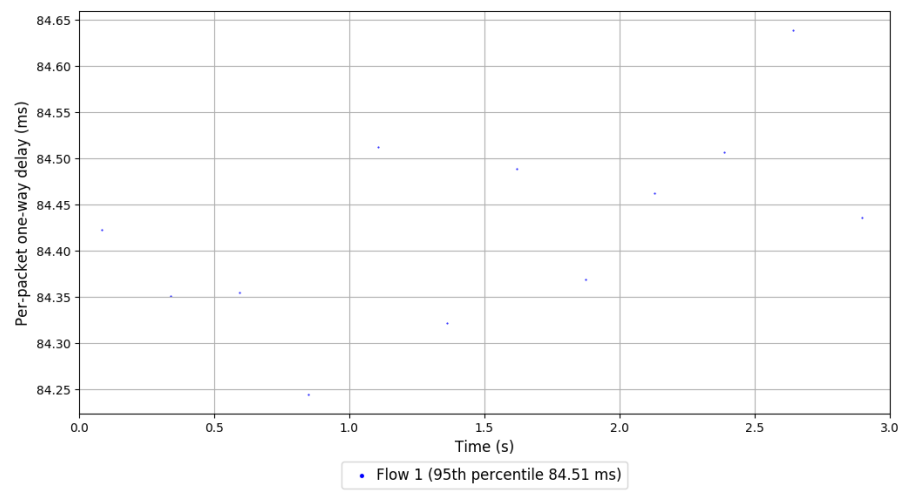
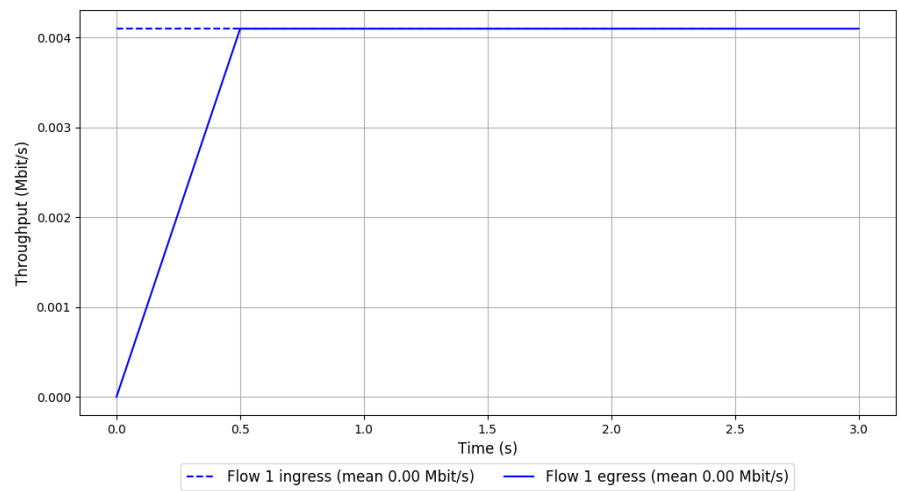
Start at: 2018-05-21 22:00:24

End at: 2018-05-21 22:00:54

Local clock offset: 20.743 ms

Remote clock offset: 7.498 ms

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

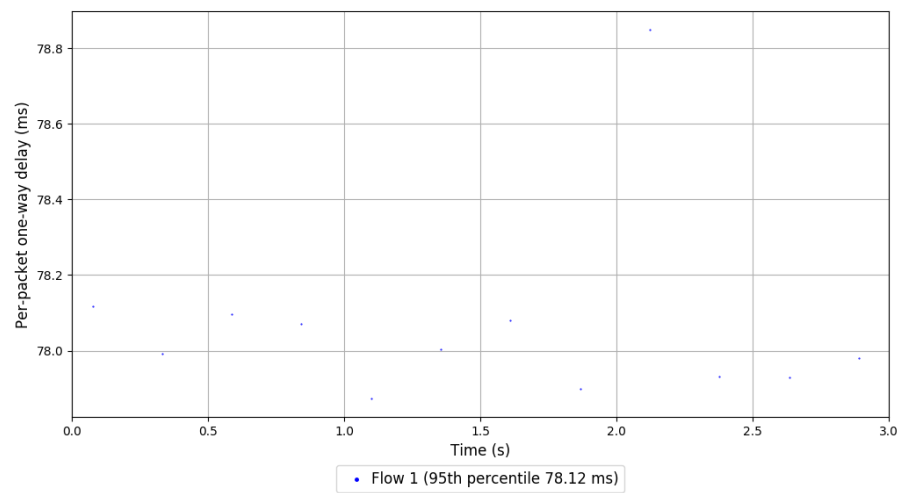
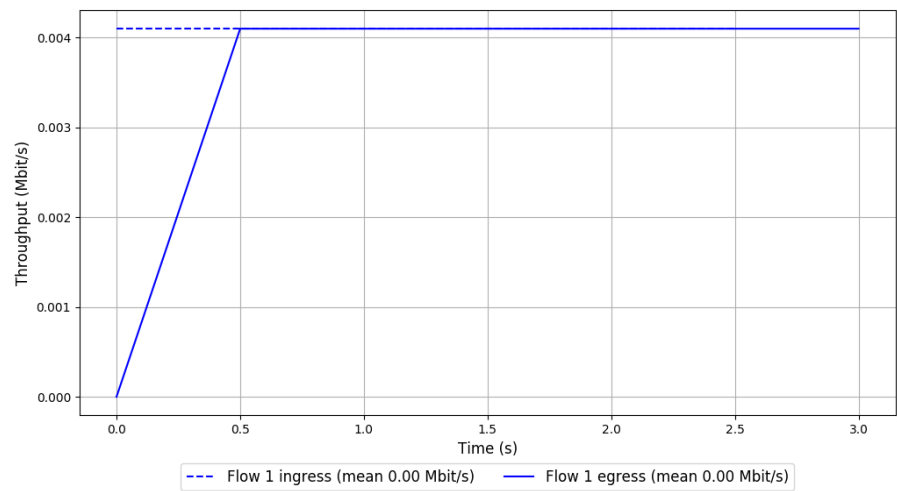
Start at: 2018-05-21 22:18:53

End at: 2018-05-21 22:19:23

Local clock offset: -0.502 ms

Remote clock offset: 2.786 ms

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

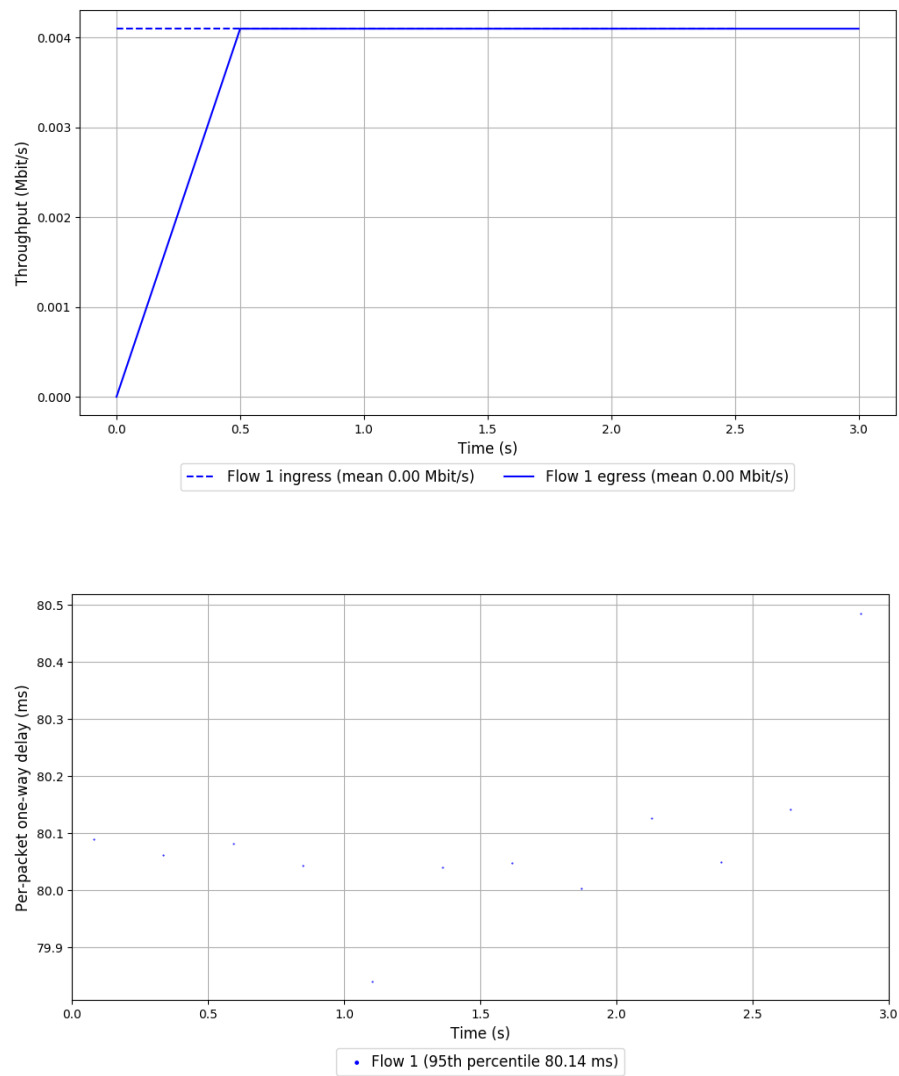
Start at: 2018-05-21 22:37:23

End at: 2018-05-21 22:37:53

Local clock offset: -3.375 ms

Remote clock offset: 2.395 ms

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

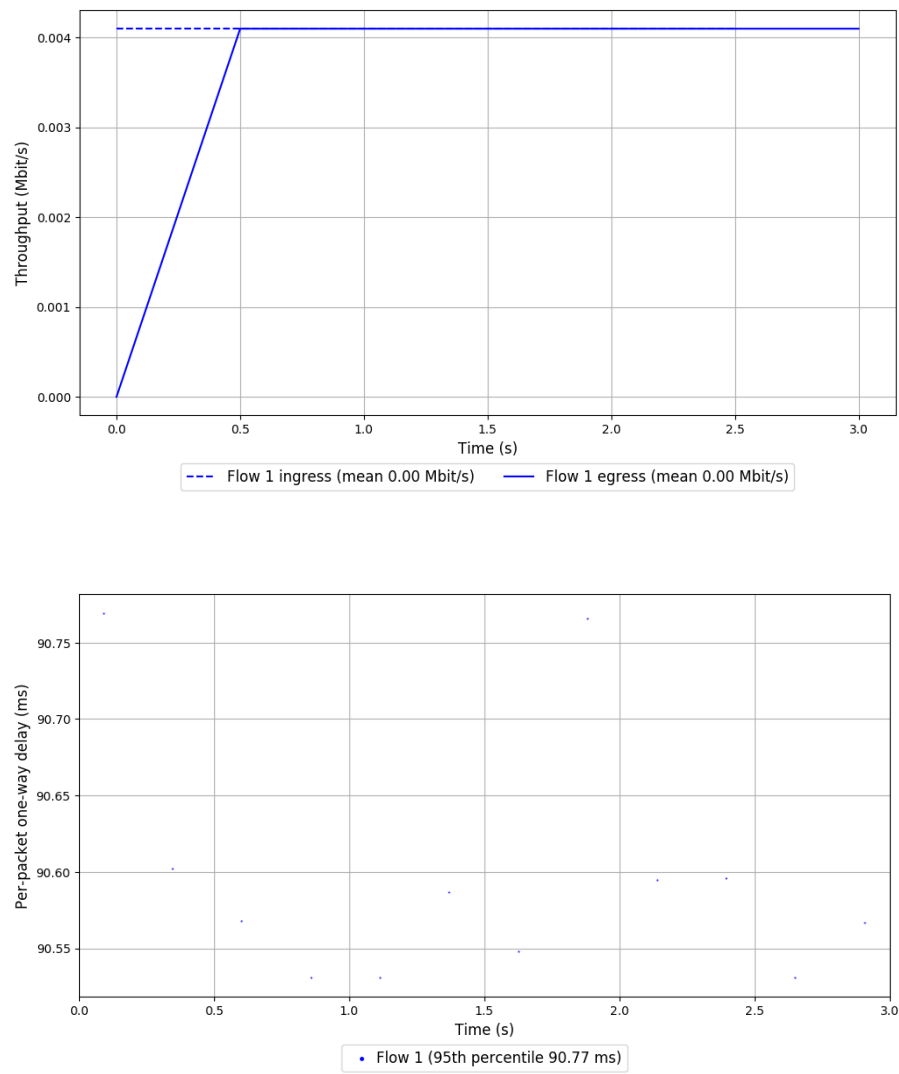
Start at: 2018-05-21 22:55:53

End at: 2018-05-21 22:56:23

Local clock offset: -4.483 ms

Remote clock offset: 8.379 ms

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

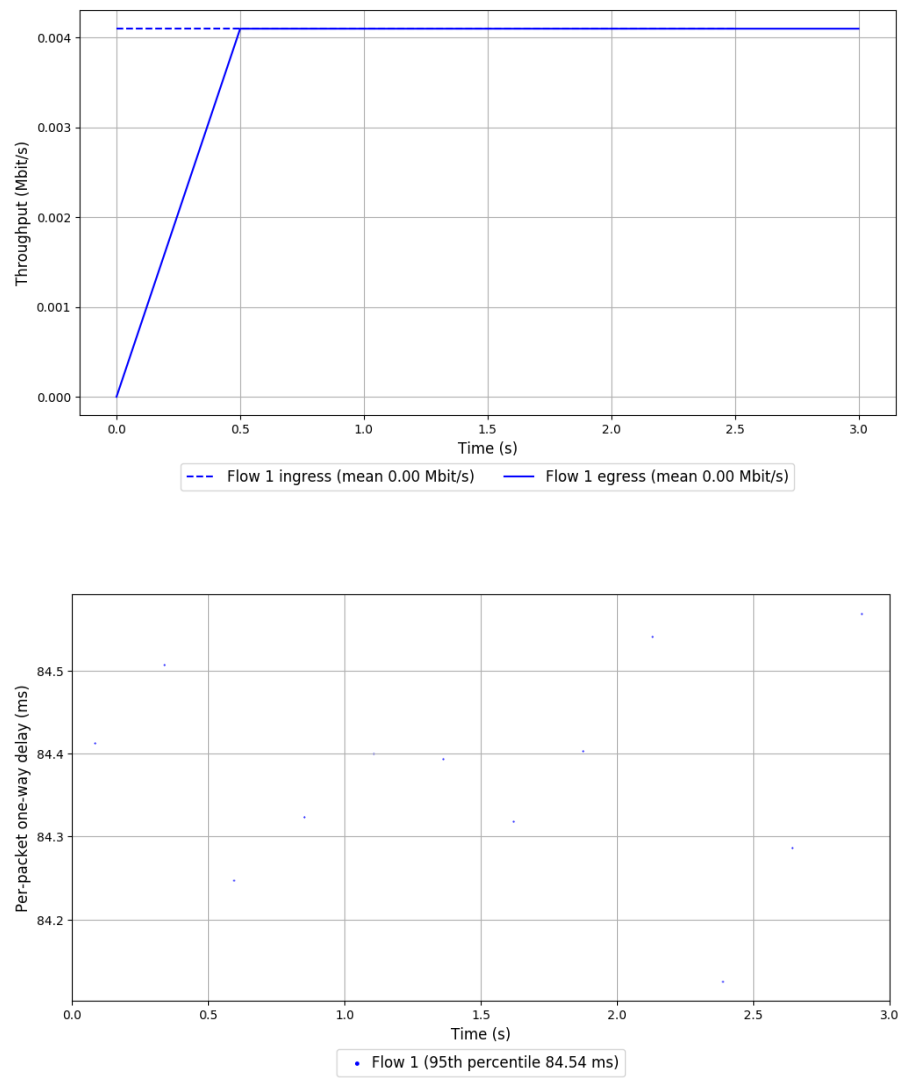
Start at: 2018-05-21 23:14:28

End at: 2018-05-21 23:14:58

Local clock offset: -2.459 ms

Remote clock offset: 9.629 ms

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

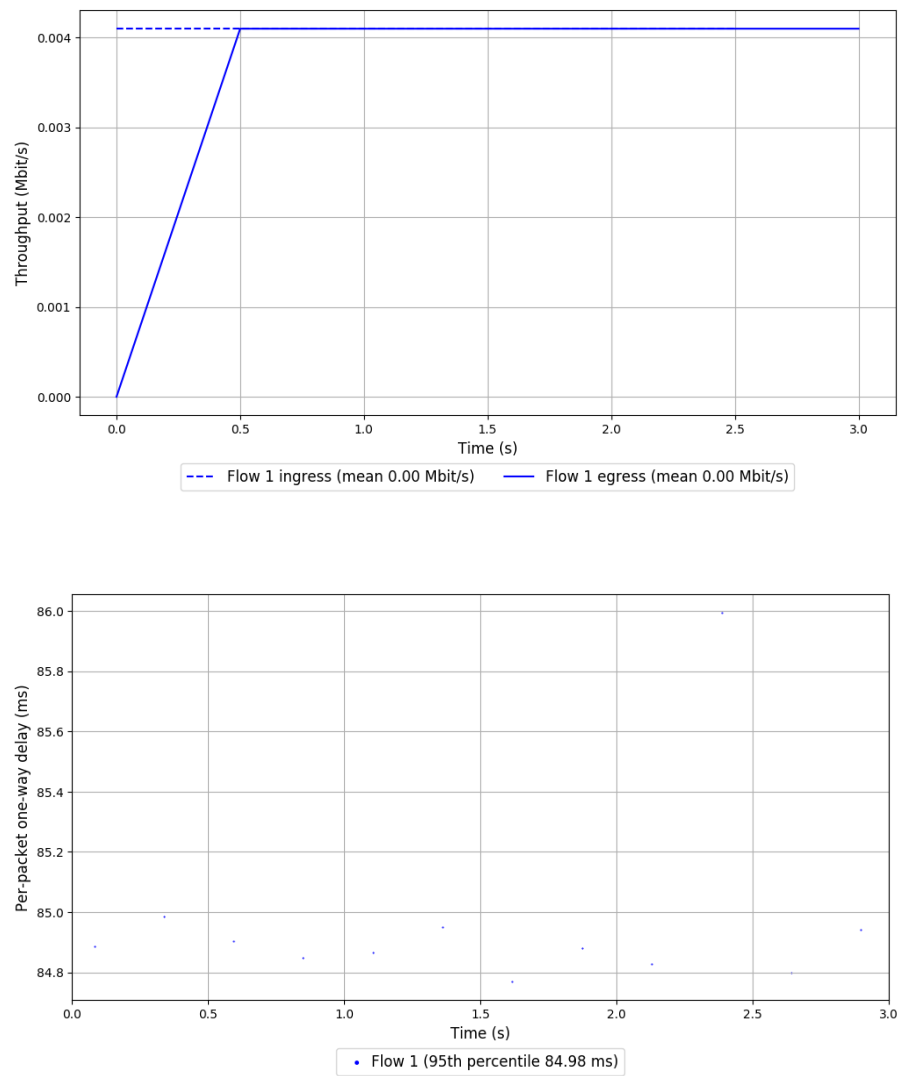
Start at: 2018-05-21 23:32:56

End at: 2018-05-21 23:33:26

Local clock offset: -3.042 ms

Remote clock offset: 3.953 ms

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

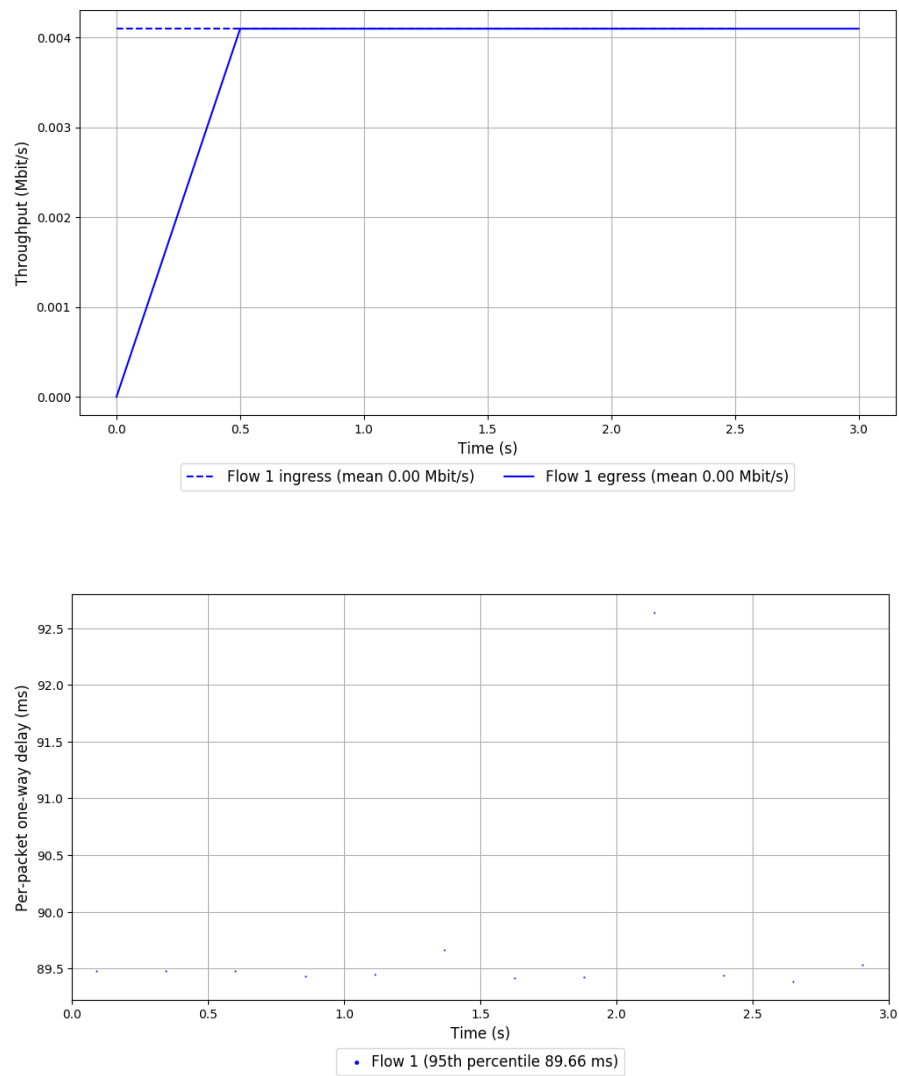
Start at: 2018-05-21 23:51:26

End at: 2018-05-21 23:51:56

Local clock offset: -4.794 ms

Remote clock offset: 7.607 ms

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

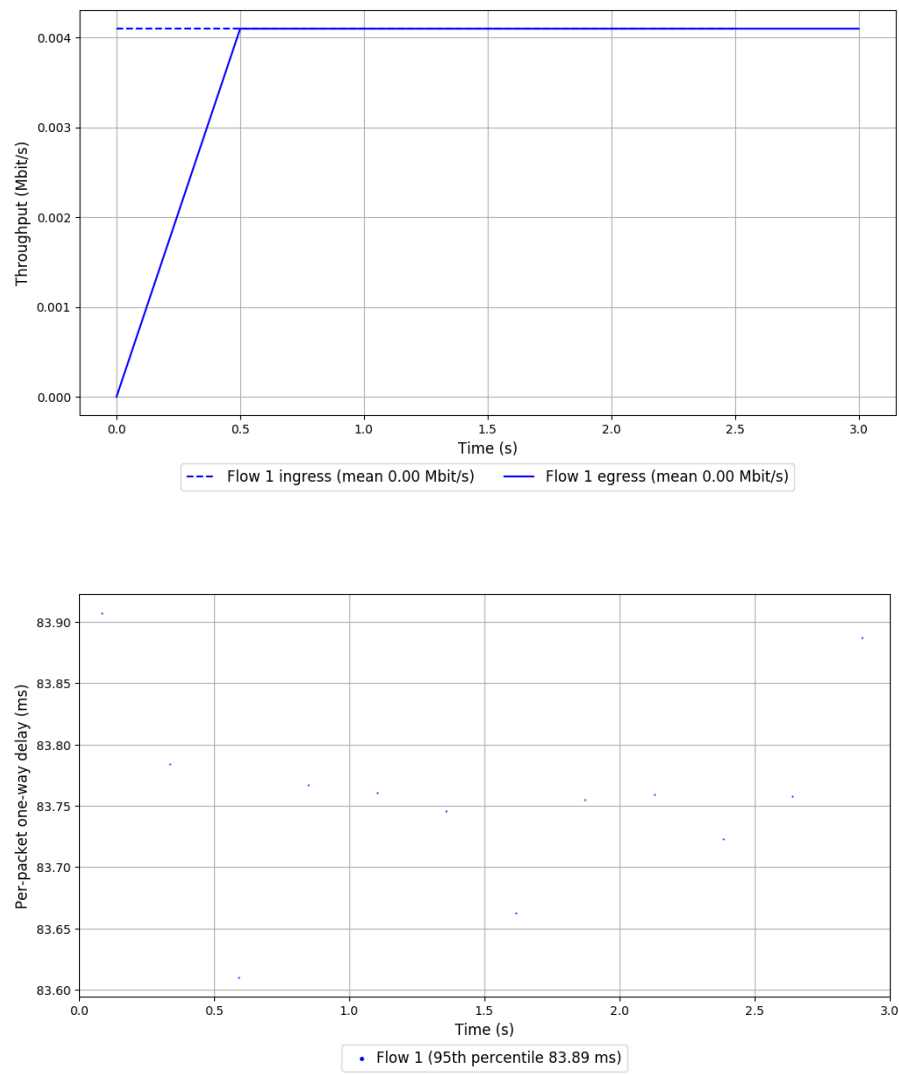
Start at: 2018-05-22 00:09:54

End at: 2018-05-22 00:10:24

Local clock offset: -5.985 ms

Remote clock offset: 7.629 ms

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

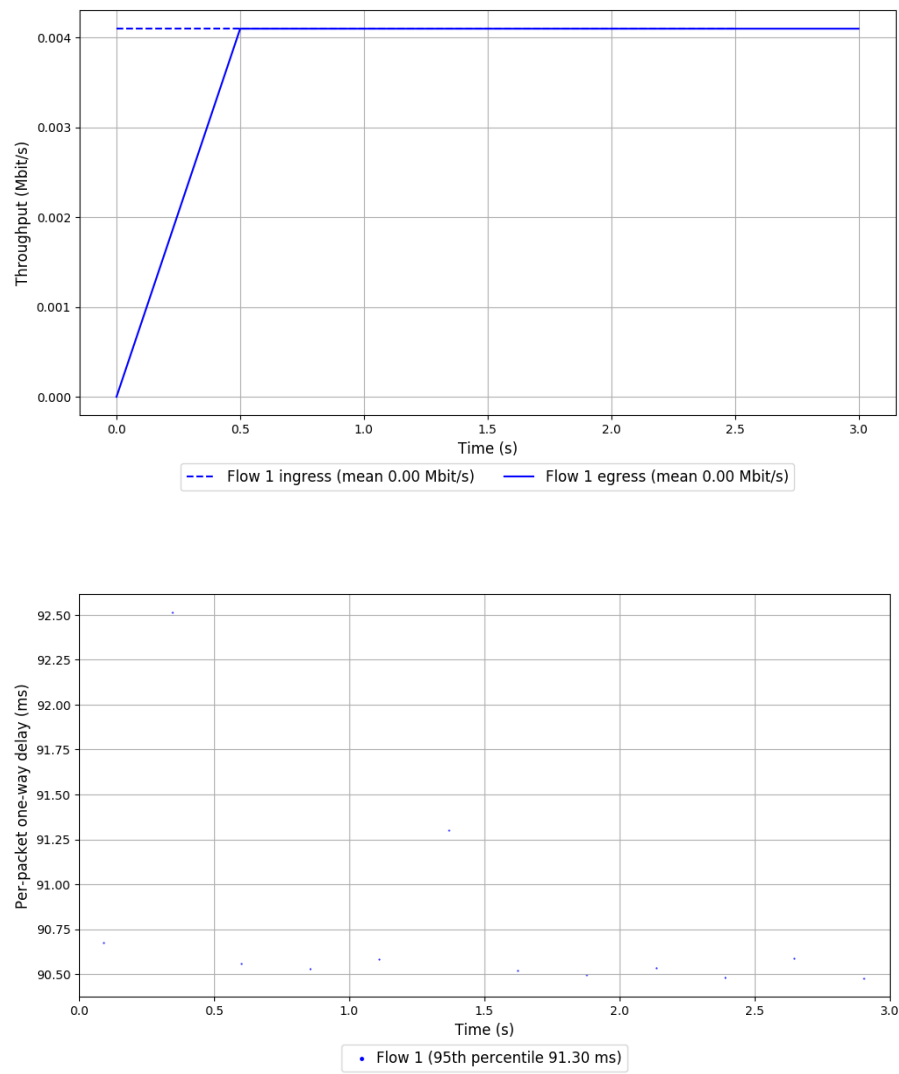
Start at: 2018-05-22 00:28:24

End at: 2018-05-22 00:28:54

Local clock offset: -7.259 ms

Remote clock offset: 11.556 ms

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-05-21 21:51:11

End at: 2018-05-21 21:51:41

Local clock offset: 31.589 ms

Remote clock offset: 3.695 ms

Below is generated by plot.py at 2018-05-22 00:56:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.91 Mbit/s

95th percentile per-packet one-way delay: 87.835 ms

Loss rate: 0.59%

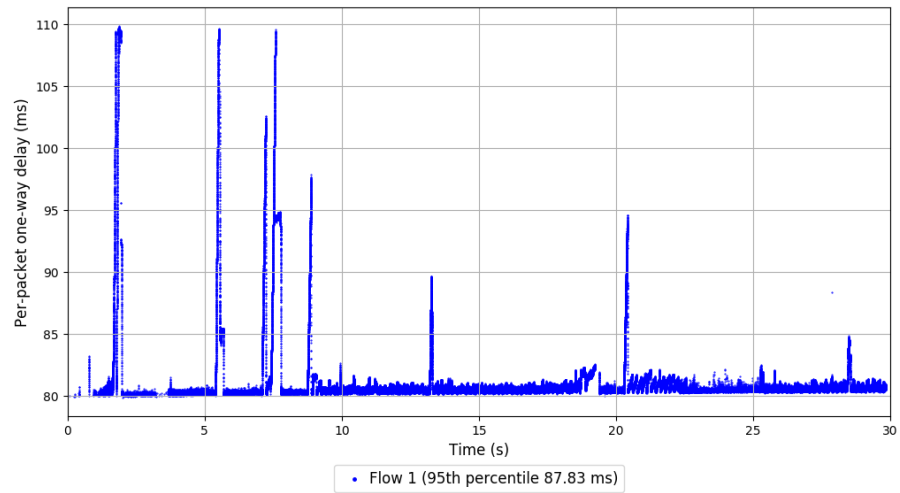
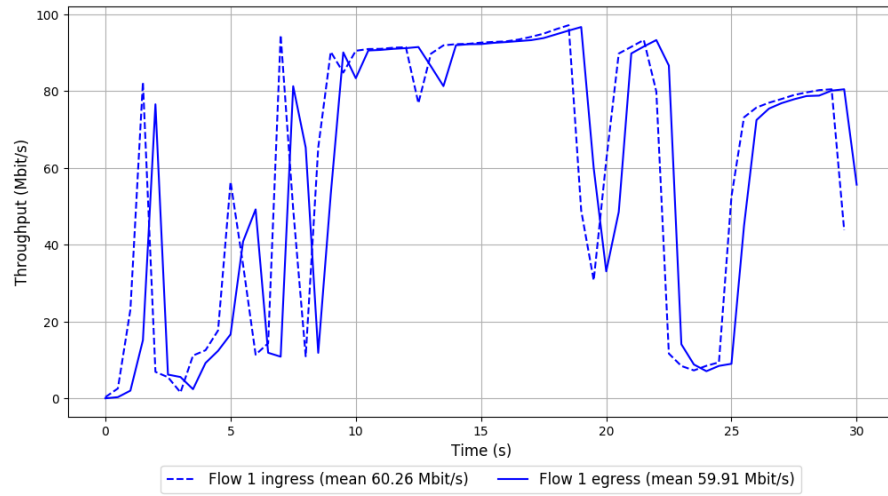
-- Flow 1:

Average throughput: 59.91 Mbit/s

95th percentile per-packet one-way delay: 87.835 ms

Loss rate: 0.59%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-05-21 22:09:40

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

Local clock offset: 5.197 ms

Remote clock offset: 7.431 ms

Below is generated by plot.py at 2018-05-22 00:56:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.68 Mbit/s

95th percentile per-packet one-way delay: 110.055 ms

Loss rate: 0.42%

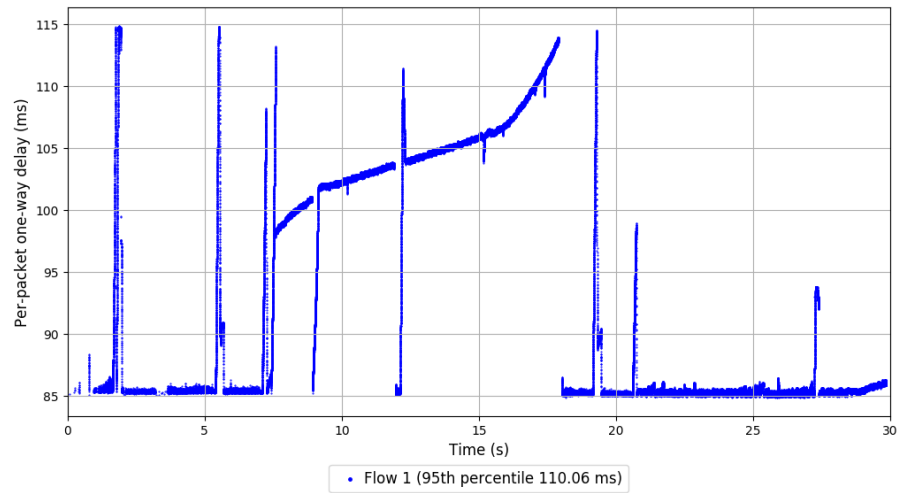
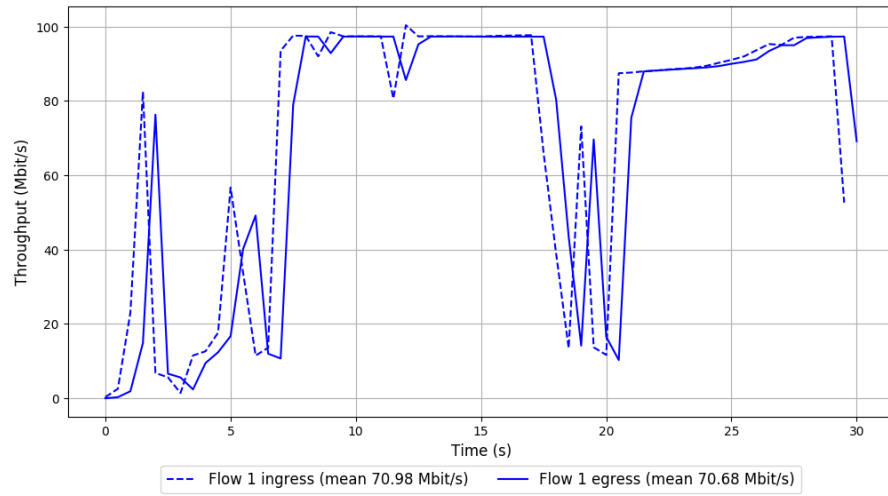
-- Flow 1:

Average throughput: 70.68 Mbit/s

95th percentile per-packet one-way delay: 110.055 ms

Loss rate: 0.42%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-05-21 22:28:10

End at: 2018-05-21 22:28:40

Local clock offset: -3.412 ms

Remote clock offset: 3.371 ms

Below is generated by plot.py at 2018-05-22 00:56:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.61 Mbit/s

95th percentile per-packet one-way delay: 109.054 ms

Loss rate: 0.32%

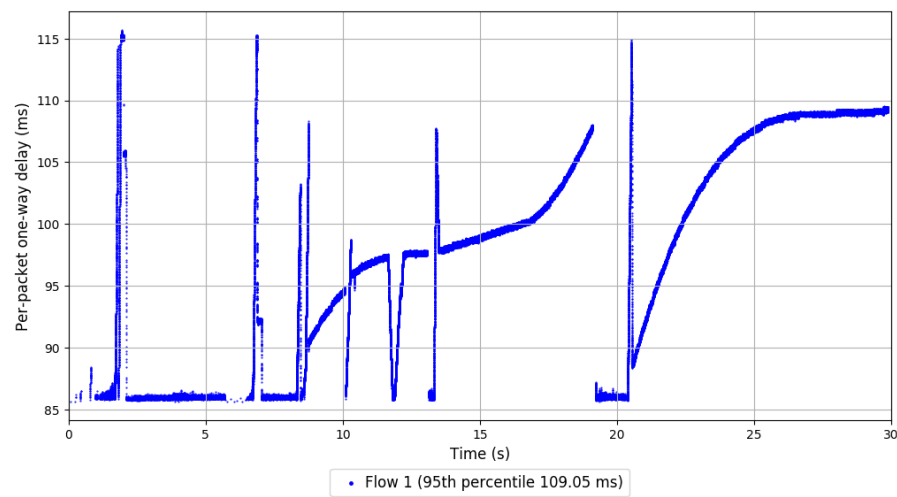
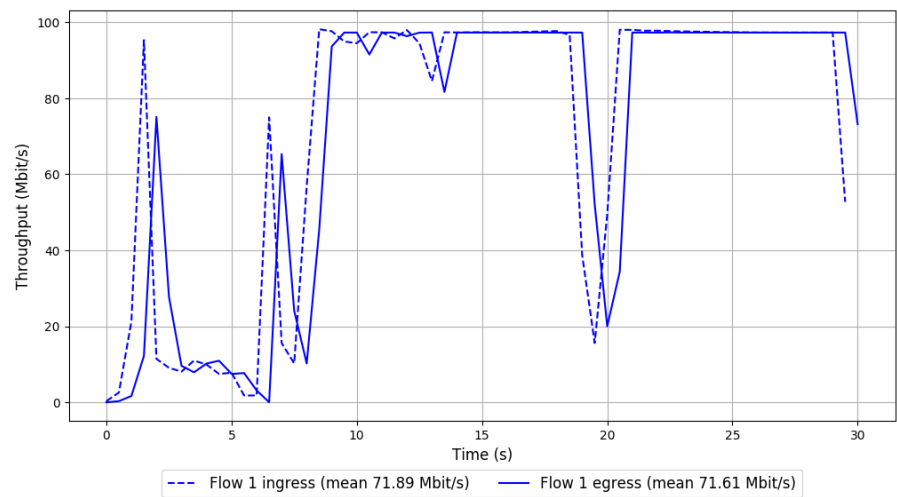
-- Flow 1:

Average throughput: 71.61 Mbit/s

95th percentile per-packet one-way delay: 109.054 ms

Loss rate: 0.32%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-05-21 22:46:40

End at: 2018-05-21 22:47:10

Local clock offset: -3.977 ms

Remote clock offset: 4.018 ms

Below is generated by plot.py at 2018-05-22 00:56:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.85 Mbit/s

95th percentile per-packet one-way delay: 104.887 ms

Loss rate: 0.44%

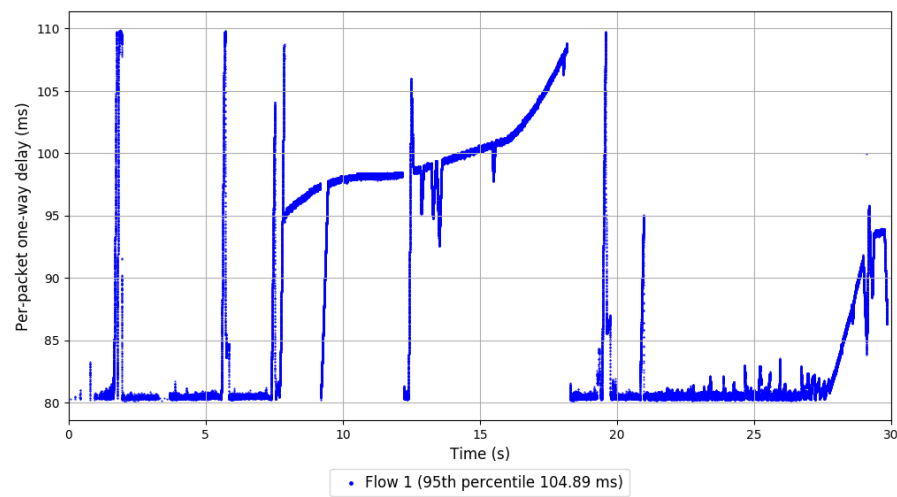
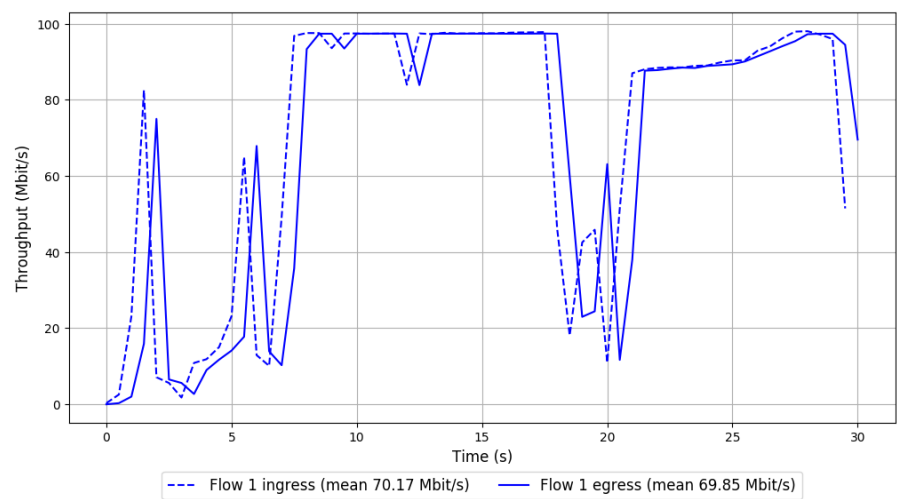
-- Flow 1:

Average throughput: 69.85 Mbit/s

95th percentile per-packet one-way delay: 104.887 ms

Loss rate: 0.44%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-05-21 23:05:10

End at: 2018-05-21 23:05:40

Local clock offset: -2.205 ms

Remote clock offset: 3.9 ms

Below is generated by plot.py at 2018-05-22 00:56:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.56 Mbit/s

95th percentile per-packet one-way delay: 106.935 ms

Loss rate: 0.35%

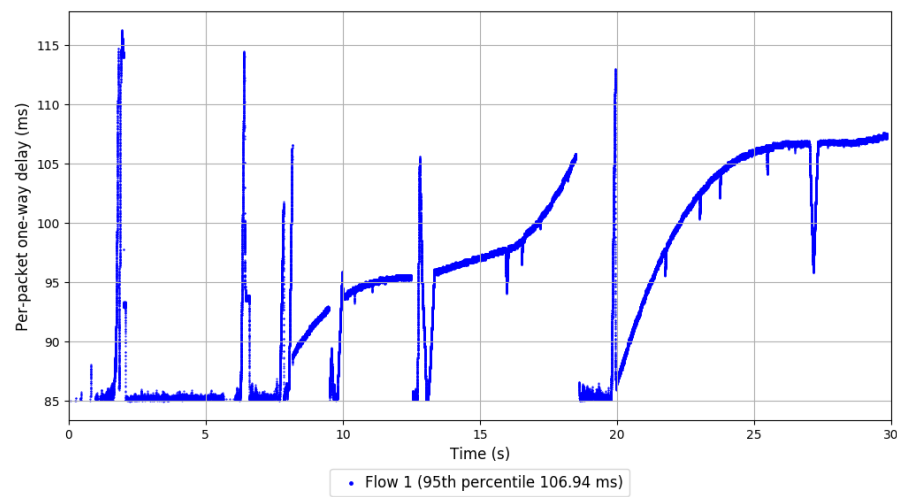
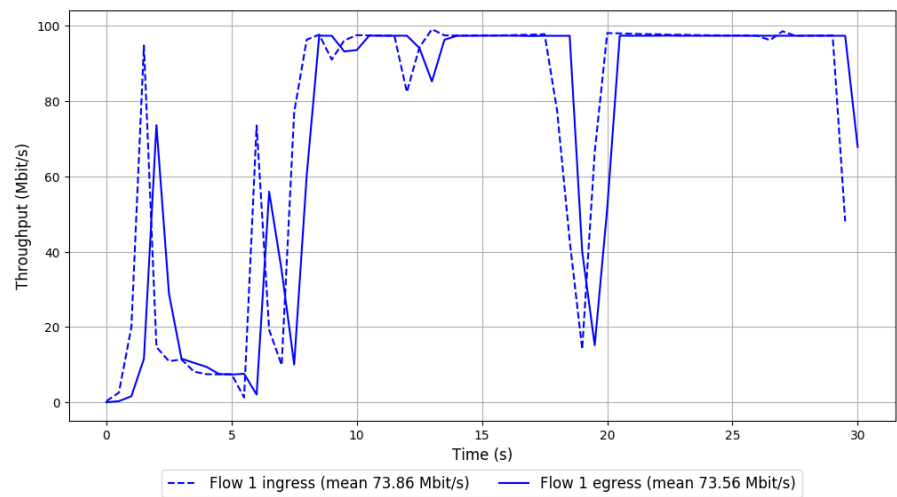
-- Flow 1:

Average throughput: 73.56 Mbit/s

95th percentile per-packet one-way delay: 106.935 ms

Loss rate: 0.35%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-05-21 23:23:43

End at: 2018-05-21 23:24:13

Local clock offset: -2.392 ms

Remote clock offset: 7.221 ms

Below is generated by plot.py at 2018-05-22 00:56:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.80 Mbit/s

95th percentile per-packet one-way delay: 106.393 ms

Loss rate: 0.43%

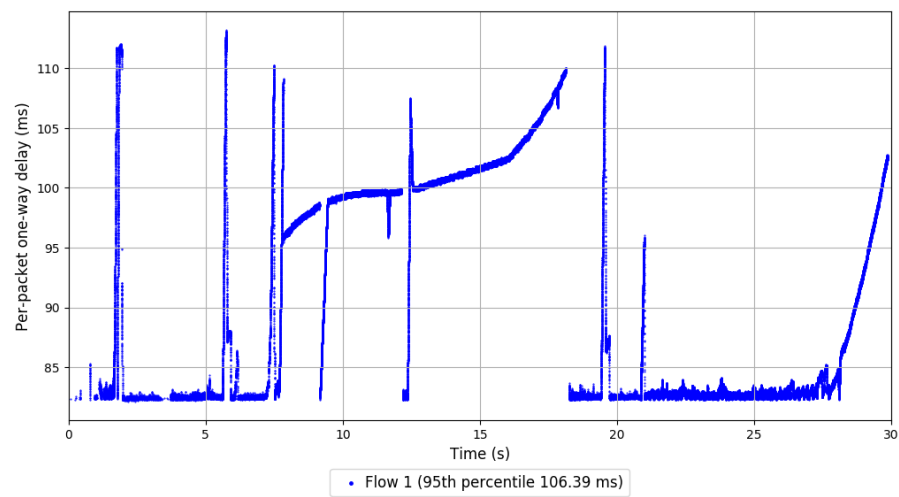
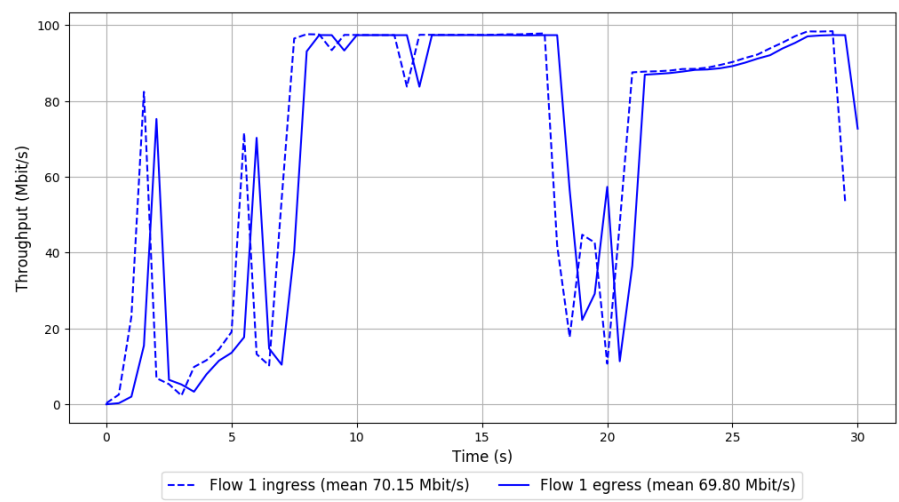
-- Flow 1:

Average throughput: 69.80 Mbit/s

95th percentile per-packet one-way delay: 106.393 ms

Loss rate: 0.43%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-05-21 23:42:14

End at: 2018-05-21 23:42:44

Local clock offset: -2.839 ms

Remote clock offset: 6.886 ms

Below is generated by plot.py at 2018-05-22 00:57:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.06 Mbit/s

95th percentile per-packet one-way delay: 90.652 ms

Loss rate: 0.35%

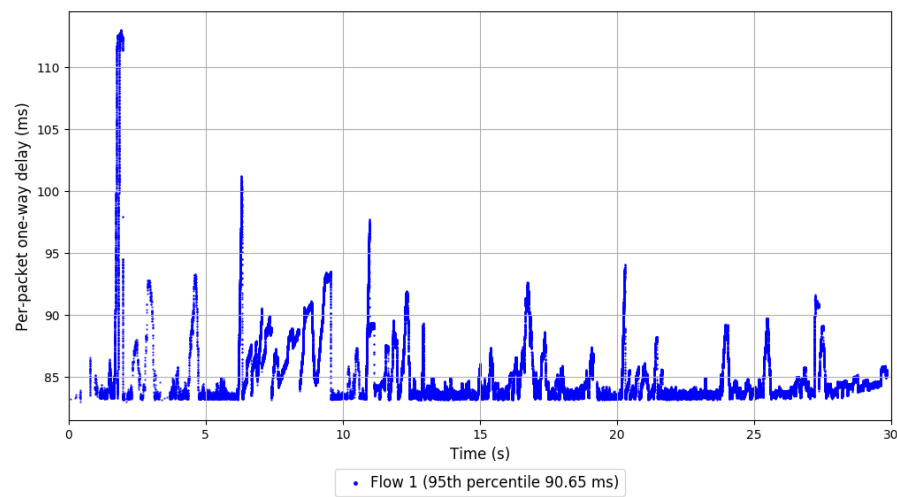
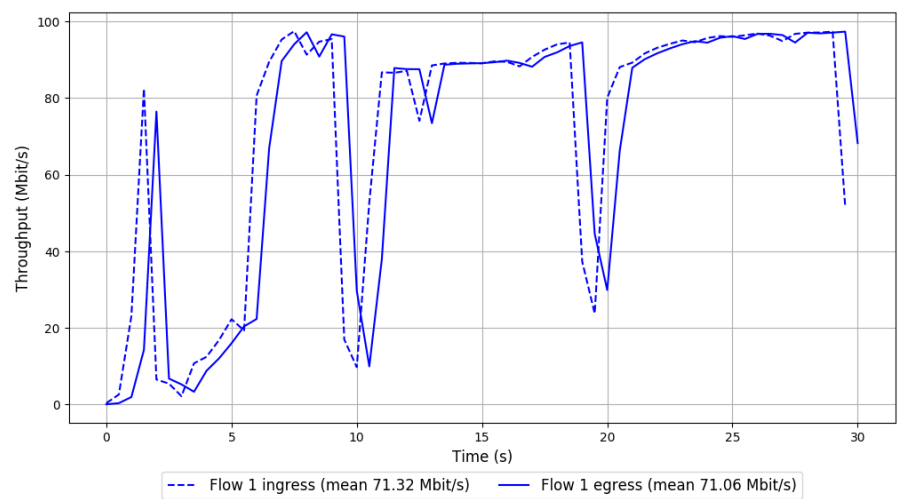
-- Flow 1:

Average throughput: 71.06 Mbit/s

95th percentile per-packet one-way delay: 90.652 ms

Loss rate: 0.35%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-05-22 00:00:42

End at: 2018-05-22 00:01:12

Local clock offset: -5.201 ms

Remote clock offset: 8.551 ms

Below is generated by plot.py at 2018-05-22 00:57:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.32 Mbit/s

95th percentile per-packet one-way delay: 107.908 ms

Loss rate: 0.43%

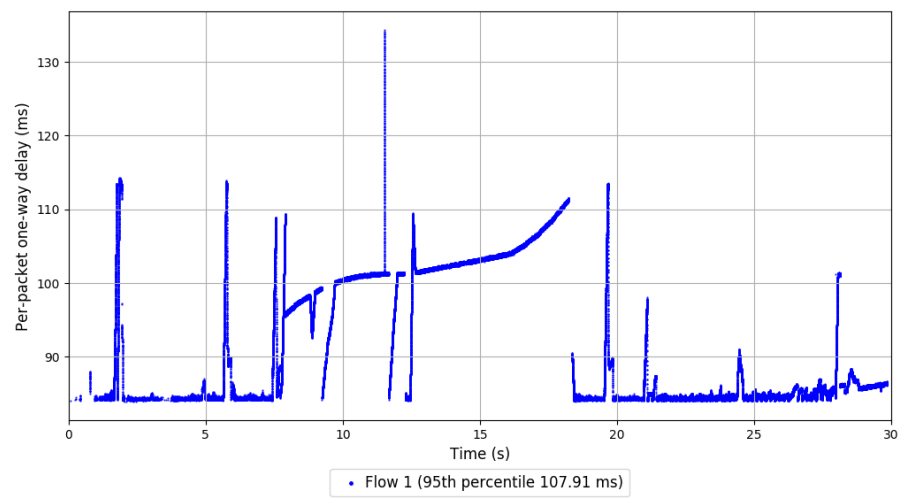
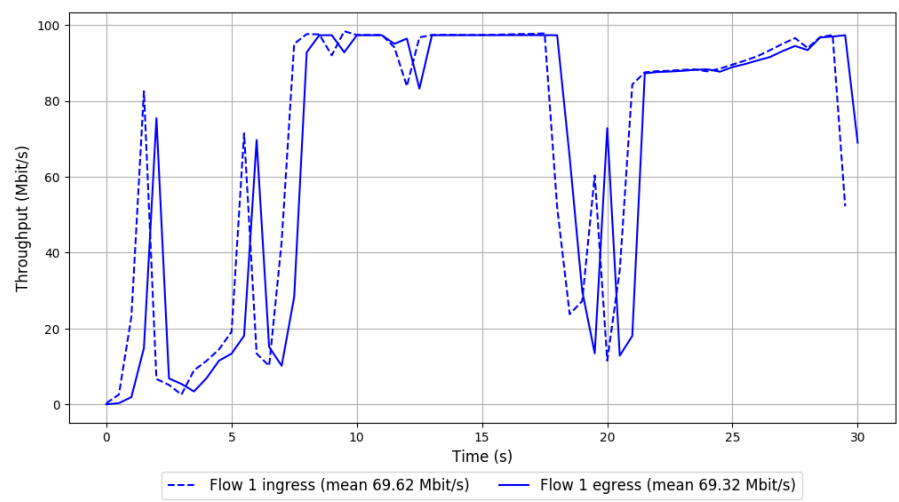
-- Flow 1:

Average throughput: 69.32 Mbit/s

95th percentile per-packet one-way delay: 107.908 ms

Loss rate: 0.43%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-05-22 00:19:11

End at: 2018-05-22 00:19:41

Local clock offset: -6.914 ms

Remote clock offset: 3.794 ms

Below is generated by plot.py at 2018-05-22 00:57:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.62 Mbit/s

95th percentile per-packet one-way delay: 108.585 ms

Loss rate: 0.40%

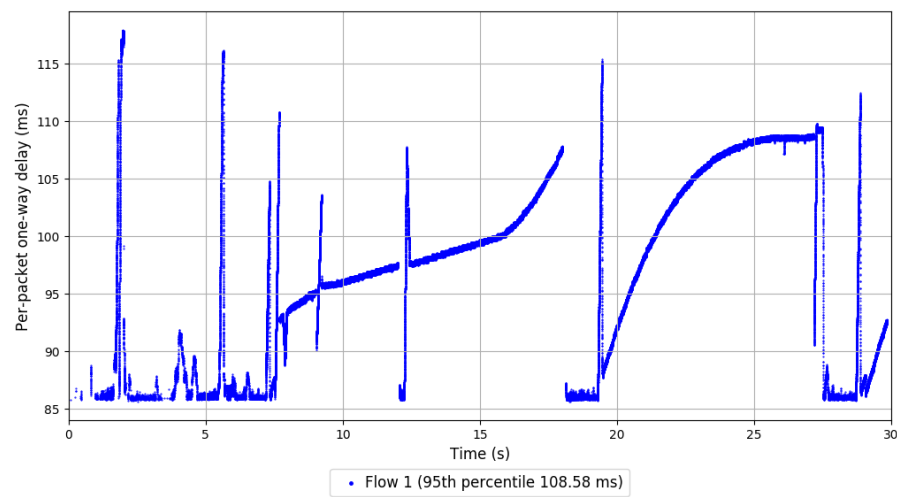
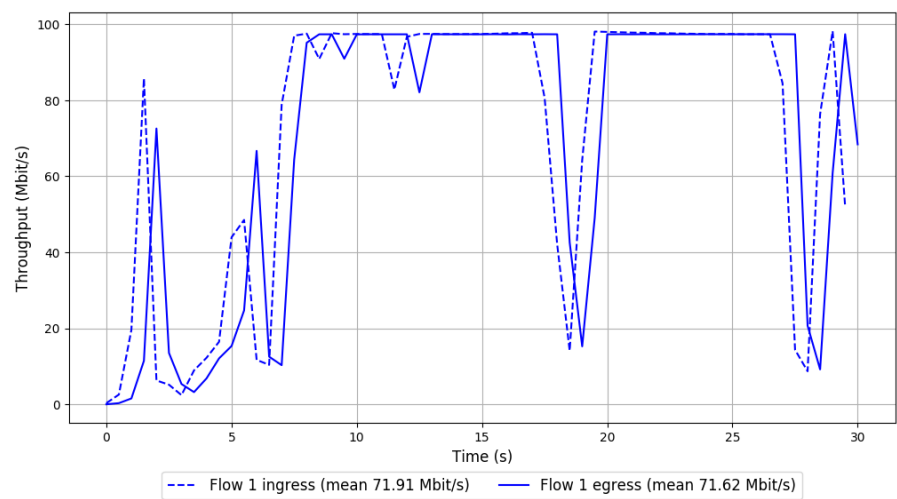
-- Flow 1:

Average throughput: 71.62 Mbit/s

95th percentile per-packet one-way delay: 108.585 ms

Loss rate: 0.40%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-05-22 00:37:42

End at: 2018-05-22 00:38:12

Local clock offset: -4.208 ms

Remote clock offset: 11.357 ms

Below is generated by plot.py at 2018-05-22 00:57:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.57 Mbit/s

95th percentile per-packet one-way delay: 100.827 ms

Loss rate: 0.29%

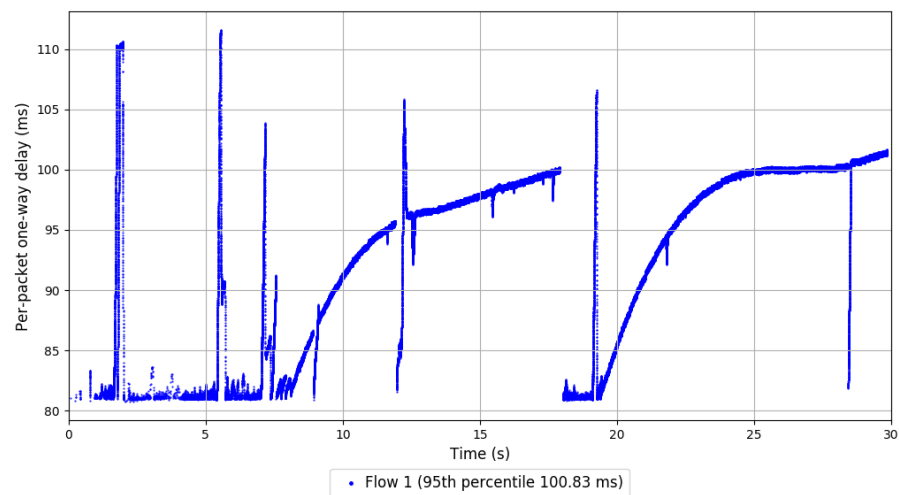
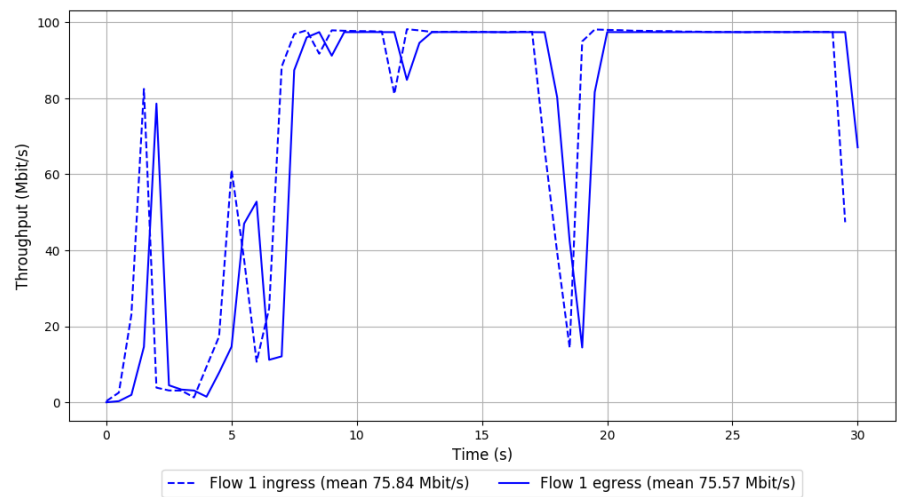
-- Flow 1:

Average throughput: 75.57 Mbit/s

95th percentile per-packet one-way delay: 100.827 ms

Loss rate: 0.29%

Run 10: Report of QUIC Cubic — Data Link

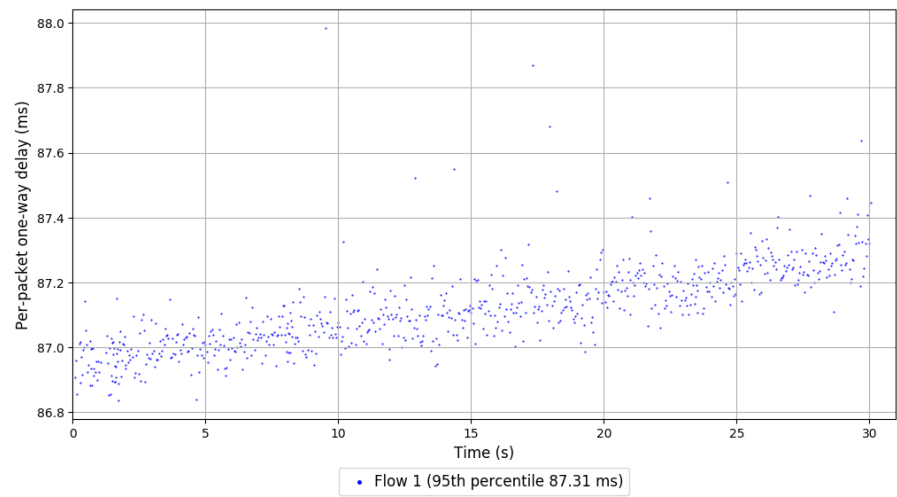
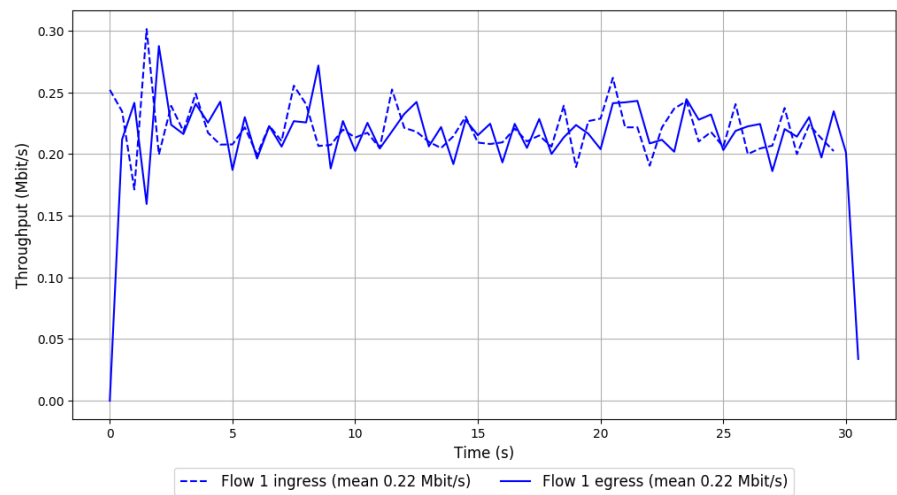


```
Run 1: Statistics of SCReAM

Start at: 2018-05-21 21:50:05
End at: 2018-05-21 21:50:35
Local clock offset: 29.993 ms
Remote clock offset: 3.839 ms

# Below is generated by plot.py at 2018-05-22 00:57:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.306 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.306 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-05-21 22:08:34

End at: 2018-05-21 22:09:04

Local clock offset: 7.237 ms

Remote clock offset: 7.298 ms

Below is generated by plot.py at 2018-05-22 00:57:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 81.723 ms

Loss rate: 0.00%

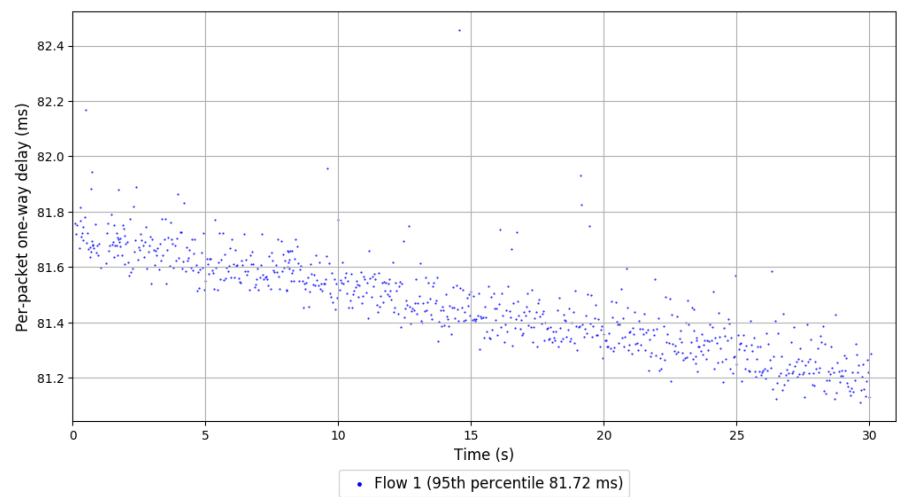
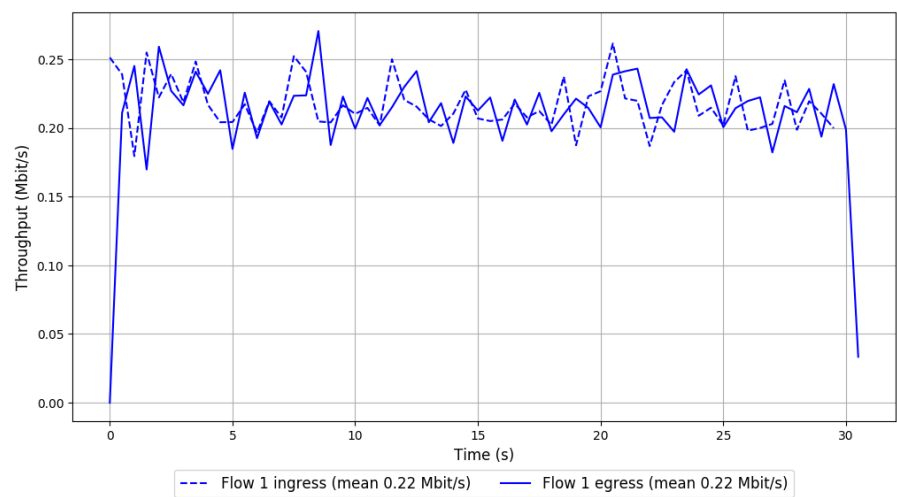
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 81.723 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-05-21 22:27:03

End at: 2018-05-21 22:27:33

Local clock offset: -2.594 ms

Remote clock offset: 3.411 ms

Below is generated by plot.py at 2018-05-22 00:57:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.091 ms

Loss rate: 0.00%

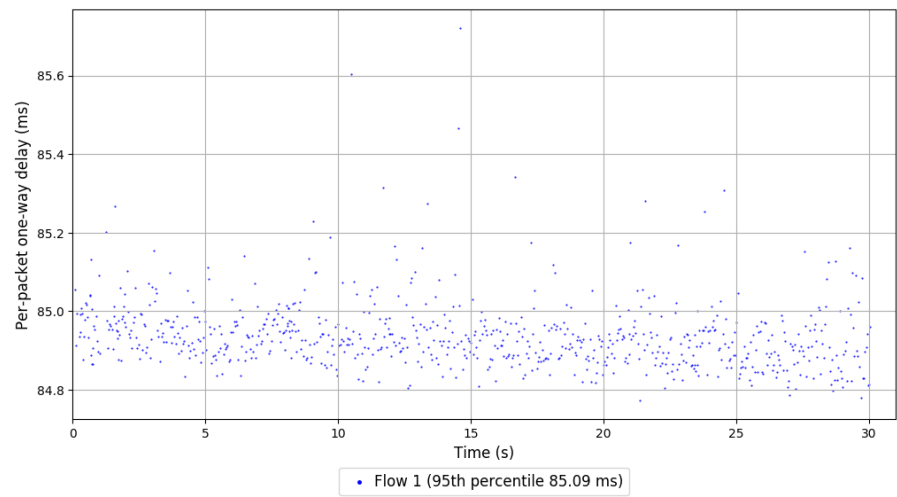
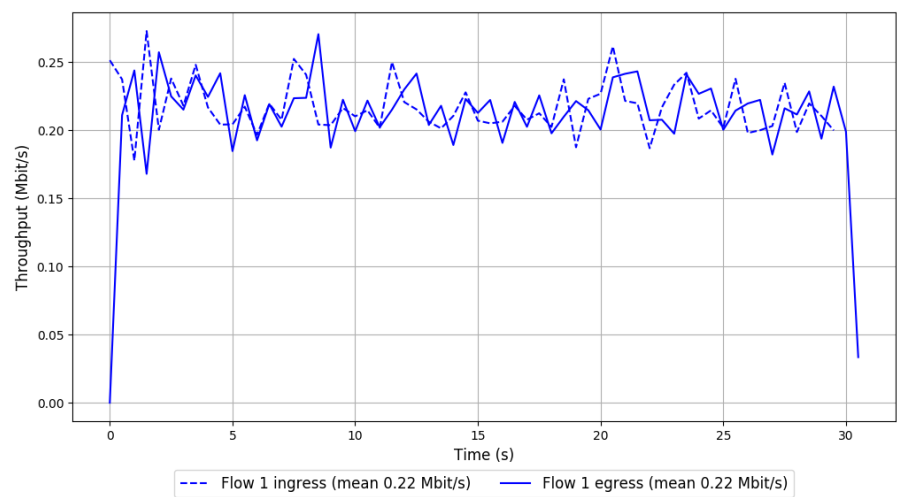
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.091 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-05-21 22:45:34

End at: 2018-05-21 22:46:04

Local clock offset: -3.896 ms

Remote clock offset: 8.425 ms

Below is generated by plot.py at 2018-05-22 00:57:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.964 ms

Loss rate: 0.00%

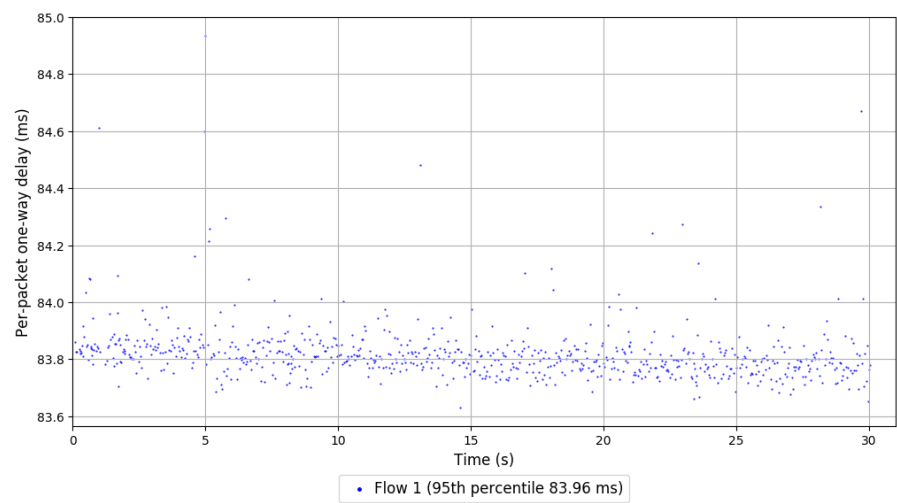
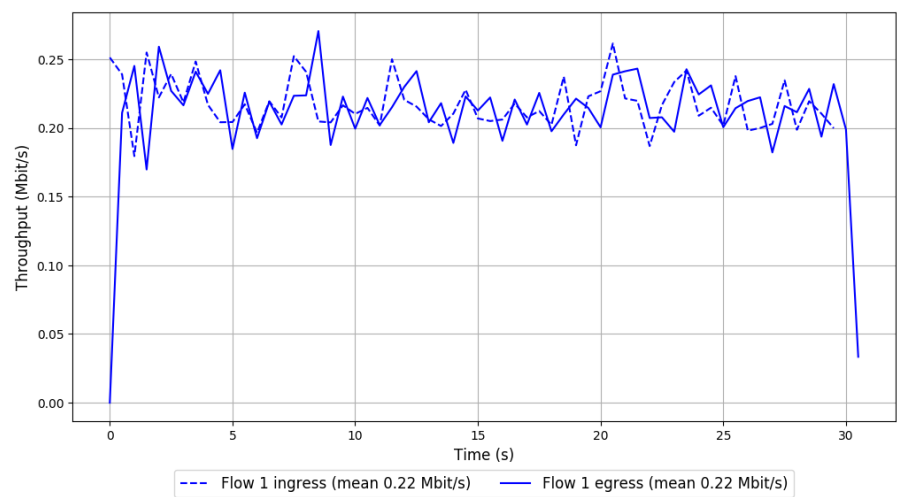
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.964 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-05-21 23:04:03

End at: 2018-05-21 23:04:33

Local clock offset: -3.168 ms

Remote clock offset: 4.713 ms

Below is generated by plot.py at 2018-05-22 00:57:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 81.867 ms

Loss rate: 0.13%

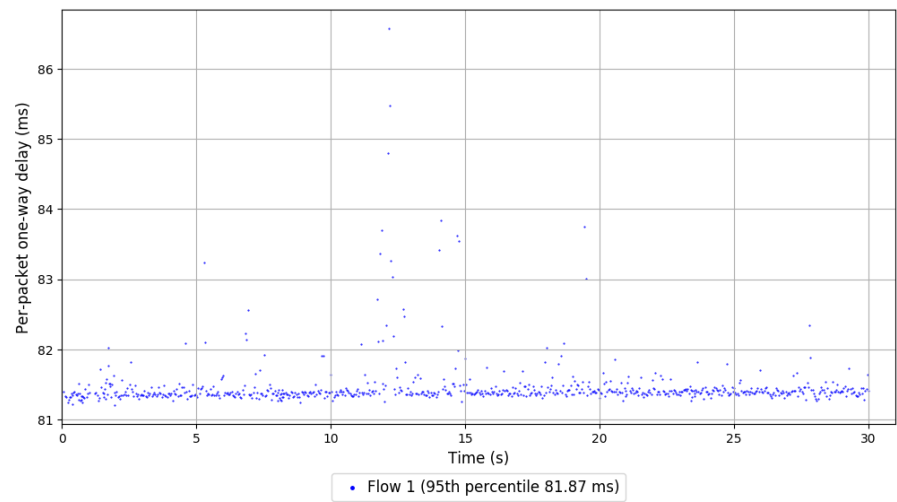
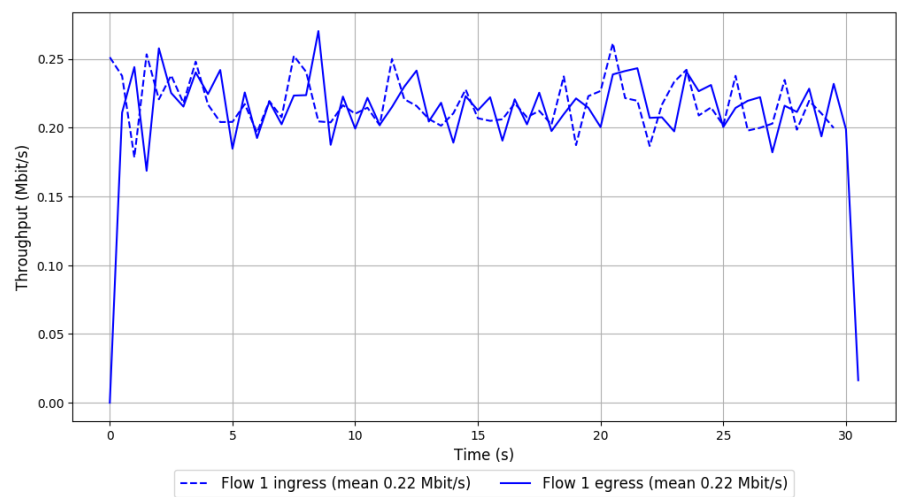
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 81.867 ms

Loss rate: 0.13%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-05-21 23:22:37

End at: 2018-05-21 23:23:07

Local clock offset: -1.602 ms

Remote clock offset: 4.388 ms

Below is generated by plot.py at 2018-05-22 00:57:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.528 ms

Loss rate: 0.00%

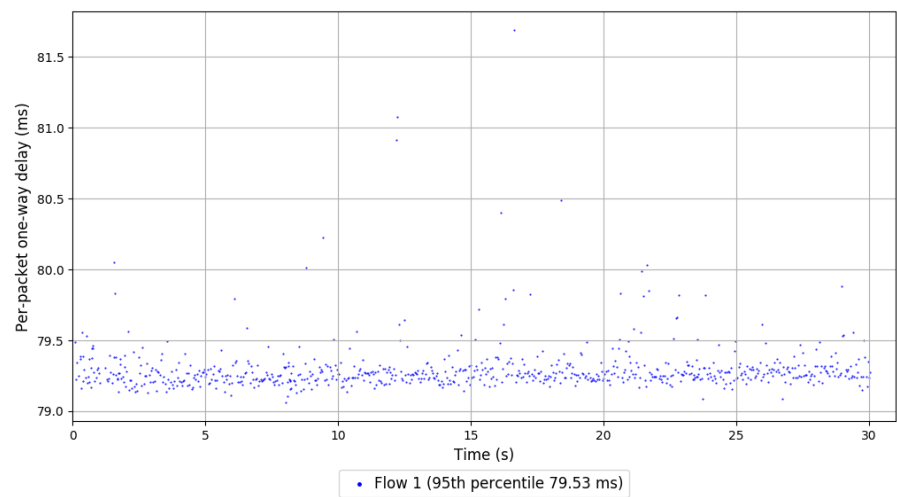
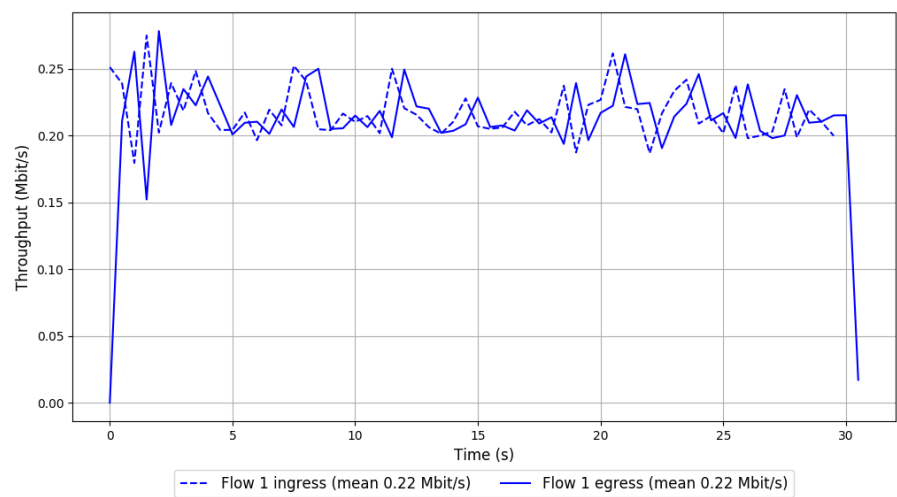
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.528 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-05-21 23:41:07

End at: 2018-05-21 23:41:37

Local clock offset: -4.367 ms

Remote clock offset: 3.059 ms

Below is generated by plot.py at 2018-05-22 00:57:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 82.912 ms

Loss rate: 0.00%

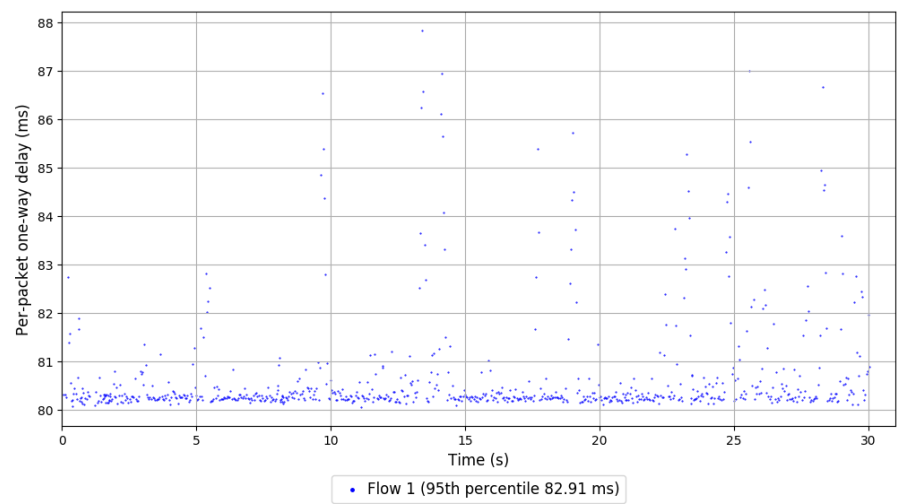
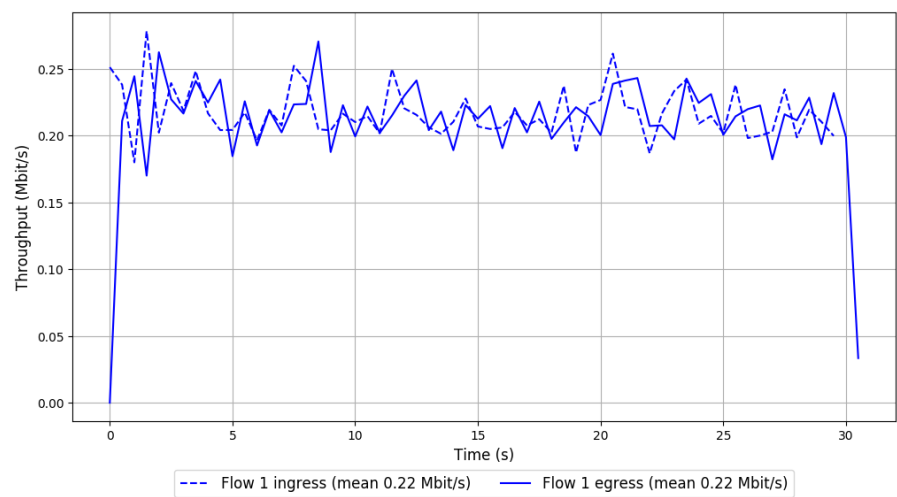
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 82.912 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-05-21 23:59:35

End at: 2018-05-22 00:00:05

Local clock offset: -4.218 ms

Remote clock offset: 3.101 ms

Below is generated by plot.py at 2018-05-22 00:57:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.974 ms

Loss rate: 0.00%

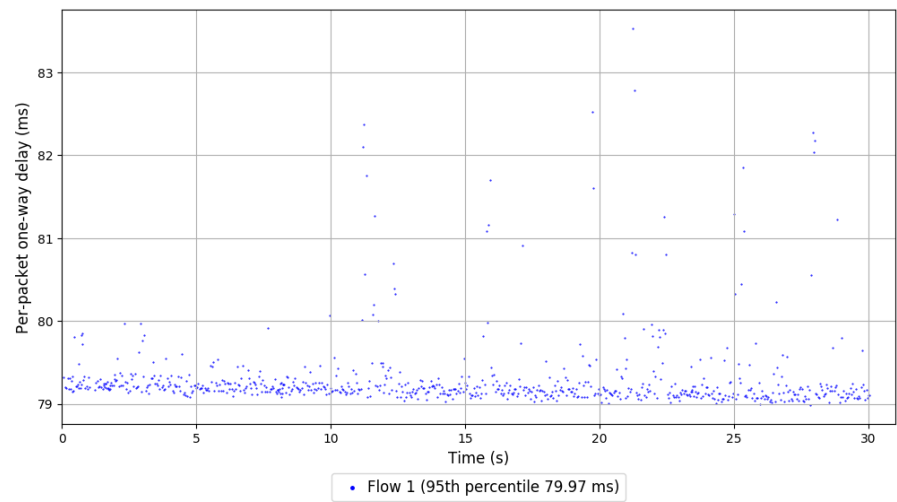
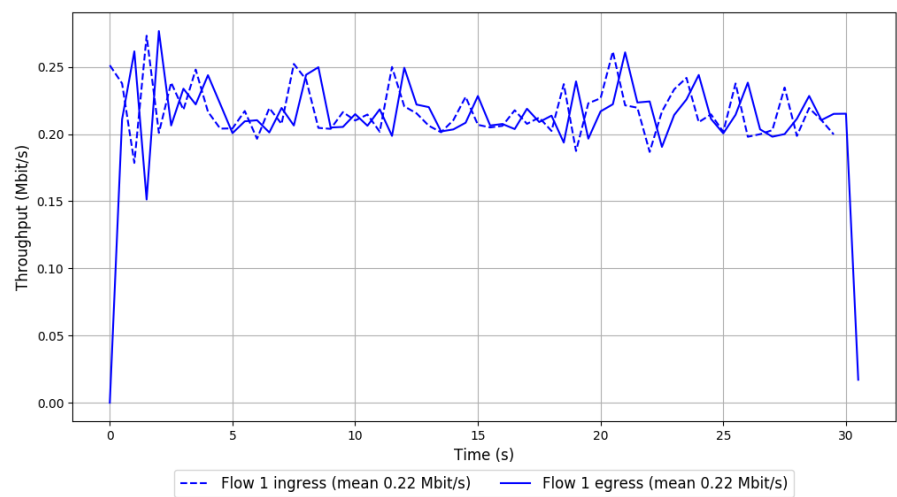
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.974 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-05-22 00:18:04

End at: 2018-05-22 00:18:34

Local clock offset: -7.605 ms

Remote clock offset: 7.597 ms

Below is generated by plot.py at 2018-05-22 00:57:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.846 ms

Loss rate: 0.00%

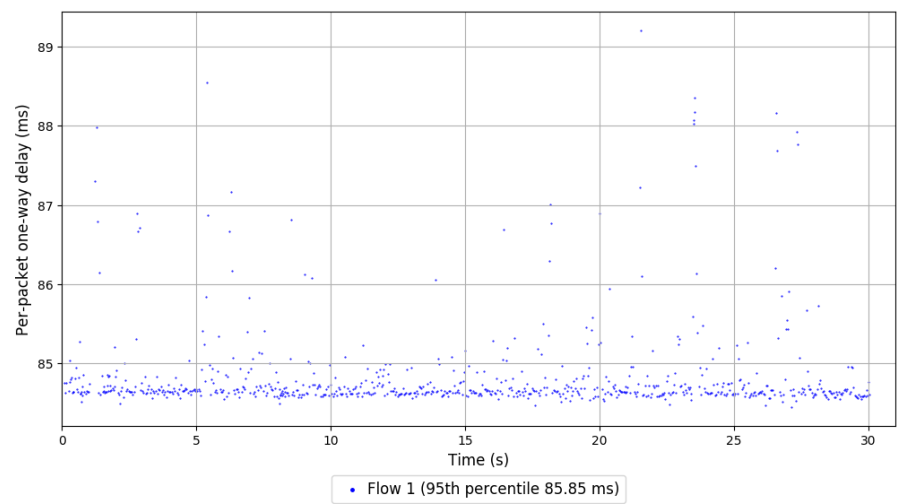
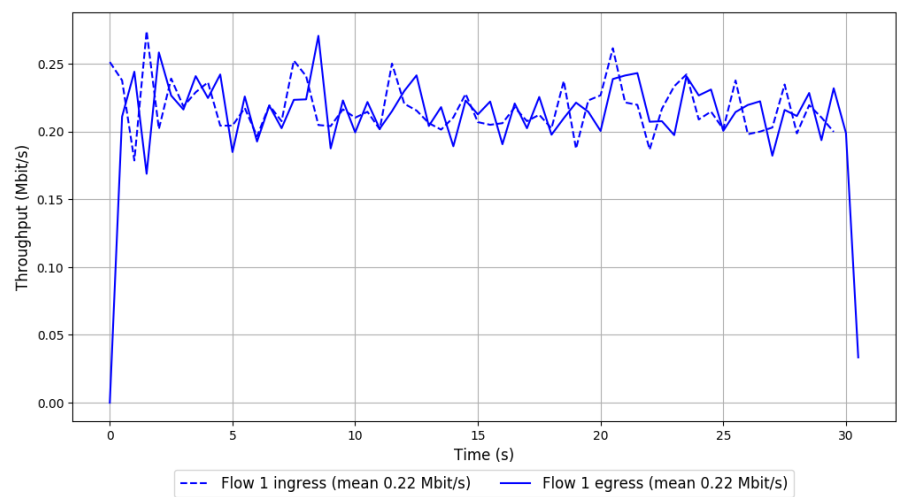
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.846 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-05-22 00:36:35

End at: 2018-05-22 00:37:05

Local clock offset: -4.428 ms

Remote clock offset: 13.79 ms

Below is generated by plot.py at 2018-05-22 00:57:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 91.379 ms

Loss rate: 0.00%

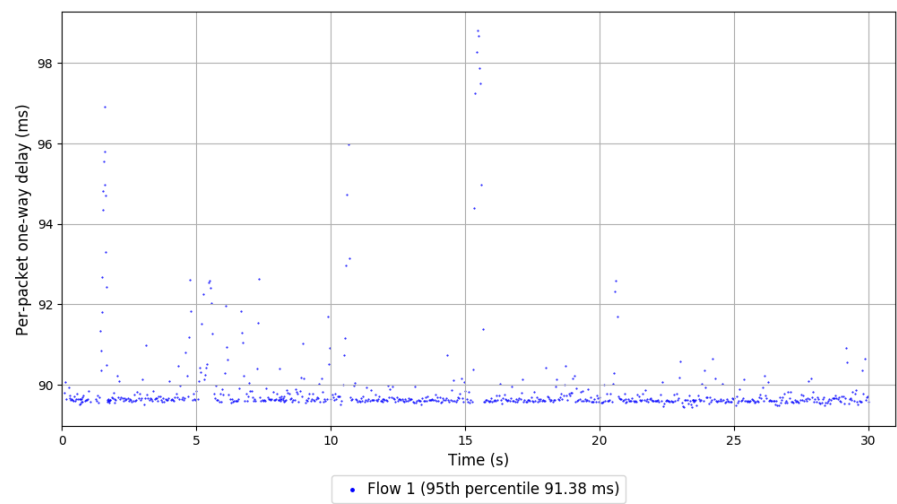
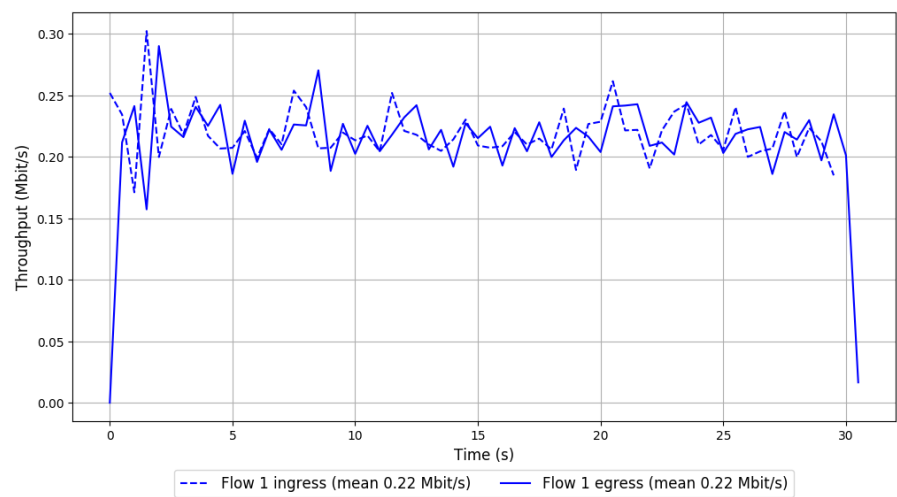
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 91.379 ms

Loss rate: 0.00%

Run 10: Report of SCRéAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-05-21 21:44:13

End at: 2018-05-21 21:44:43

Local clock offset: 26.195 ms

Remote clock offset: 3.184 ms

Below is generated by plot.py at 2018-05-22 00:57:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.26 Mbit/s

95th percentile per-packet one-way delay: 87.789 ms

Loss rate: 0.00%

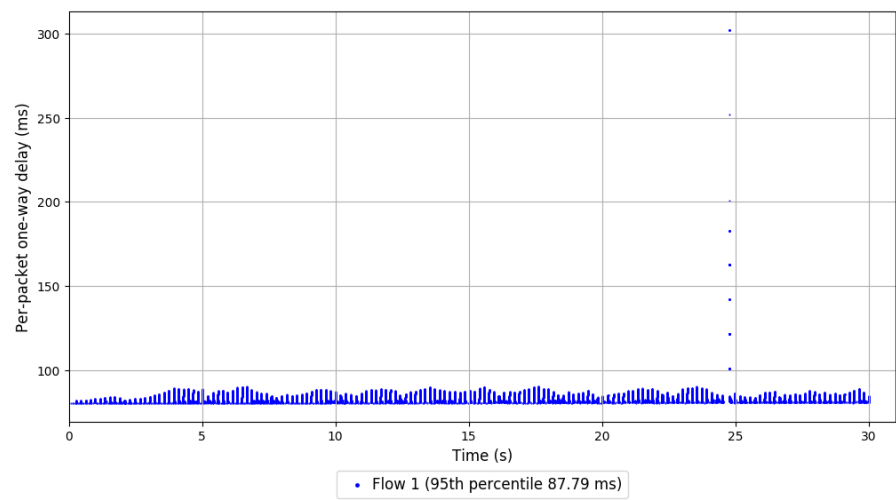
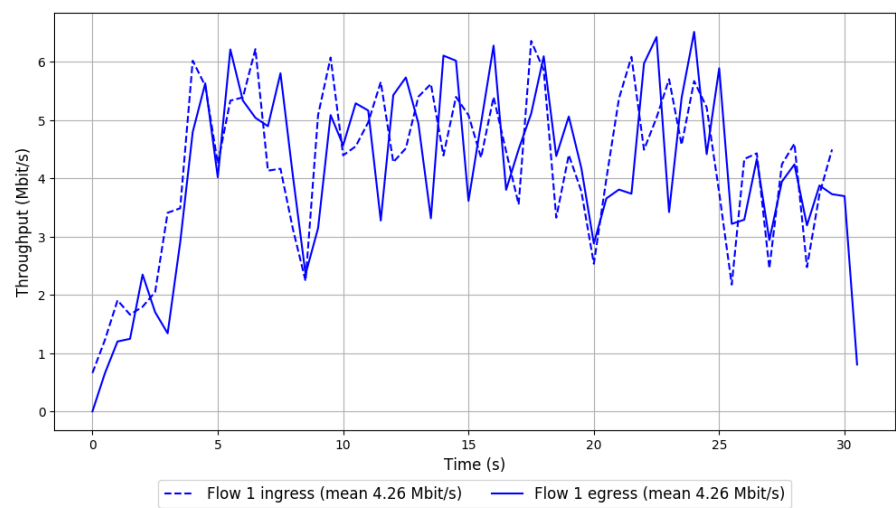
-- Flow 1:

Average throughput: 4.26 Mbit/s

95th percentile per-packet one-way delay: 87.789 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-05-21 22:02:41

End at: 2018-05-21 22:03:11

Local clock offset: 15.6 ms

Remote clock offset: 3.684 ms

Below is generated by plot.py at 2018-05-22 00:57:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.00 Mbit/s

95th percentile per-packet one-way delay: 84.972 ms

Loss rate: 0.00%

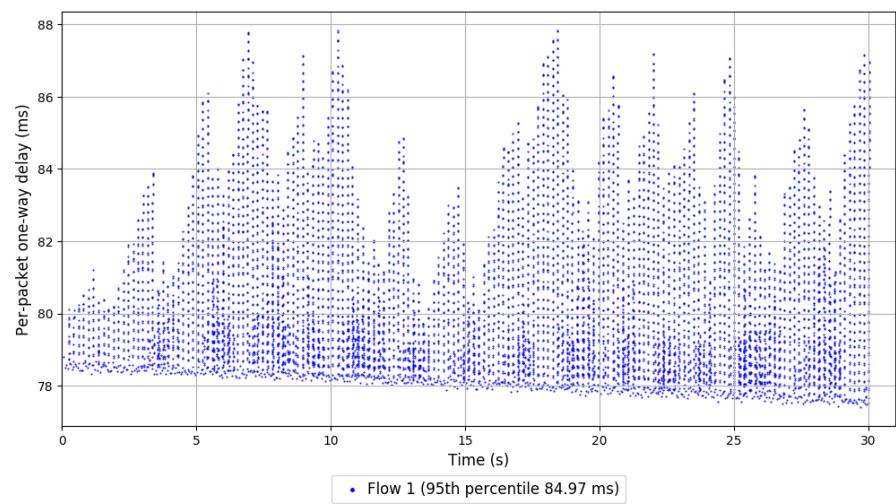
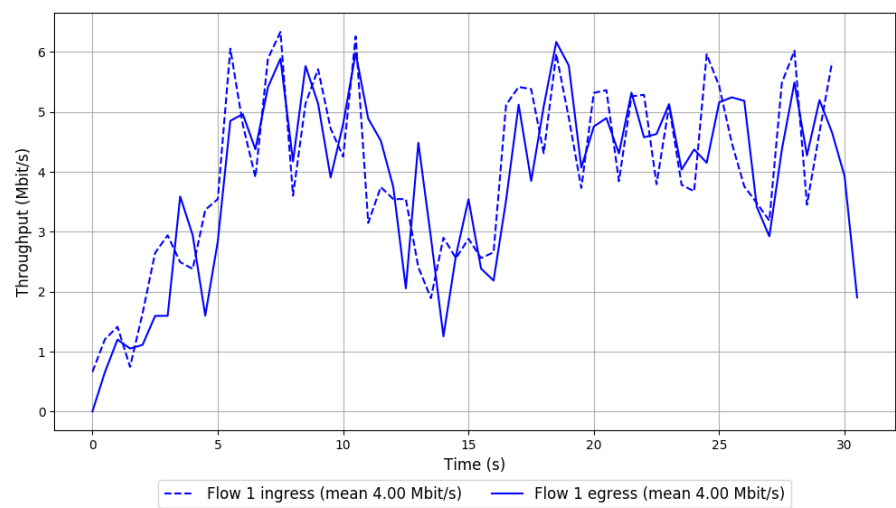
-- Flow 1:

Average throughput: 4.00 Mbit/s

95th percentile per-packet one-way delay: 84.972 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

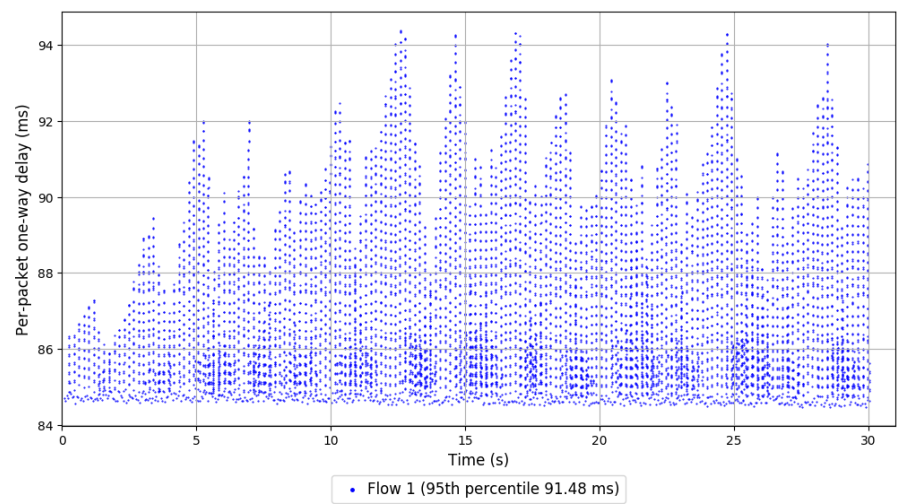
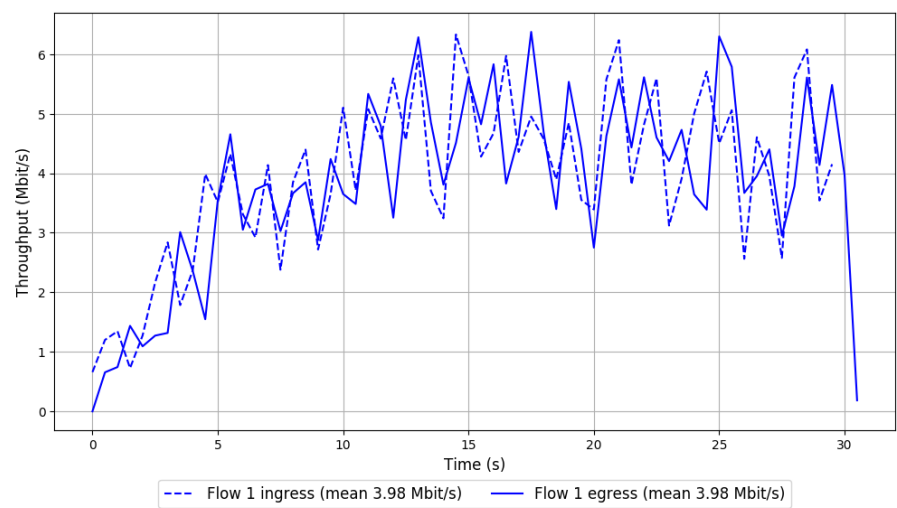


Run 3: Statistics of Sprout

Start at: 2018-05-21 22:21:10
End at: 2018-05-21 22:21:40
Local clock offset: -0.488 ms
Remote clock offset: 8.154 ms

Below is generated by plot.py at 2018-05-22 00:57:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.98 Mbit/s
95th percentile per-packet one-way delay: 91.483 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.98 Mbit/s
95th percentile per-packet one-way delay: 91.483 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-05-21 22:39:40

End at: 2018-05-21 22:40:10

Local clock offset: -2.764 ms

Remote clock offset: 3.182 ms

Below is generated by plot.py at 2018-05-22 00:57:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.72 Mbit/s

95th percentile per-packet one-way delay: 89.581 ms

Loss rate: 0.00%

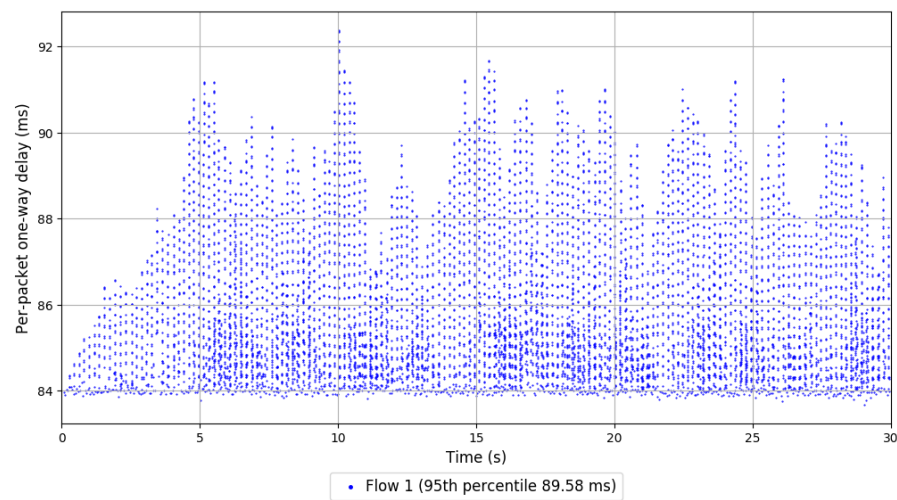
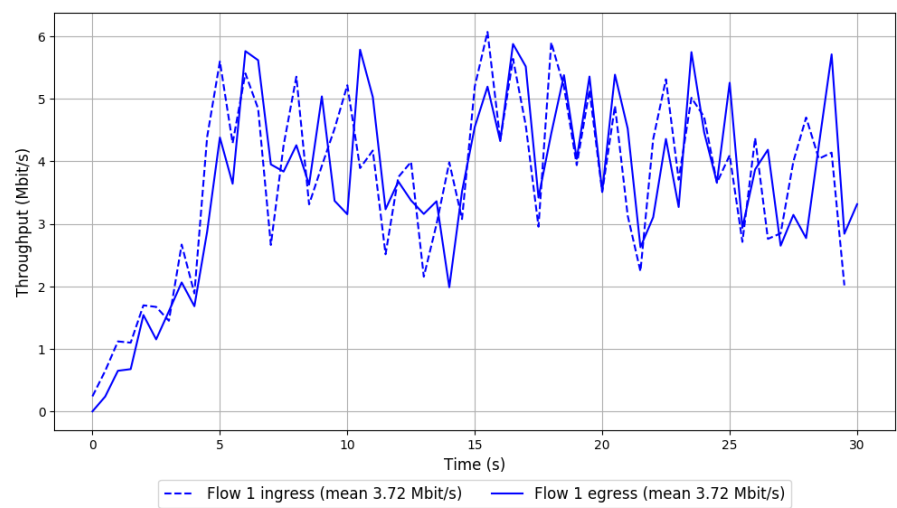
-- Flow 1:

Average throughput: 3.72 Mbit/s

95th percentile per-packet one-way delay: 89.581 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-05-21 22:58:10

End at: 2018-05-21 22:58:40

Local clock offset: -3.348 ms

Remote clock offset: 8.525 ms

Below is generated by plot.py at 2018-05-22 00:57:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.04 Mbit/s

95th percentile per-packet one-way delay: 90.747 ms

Loss rate: 0.00%

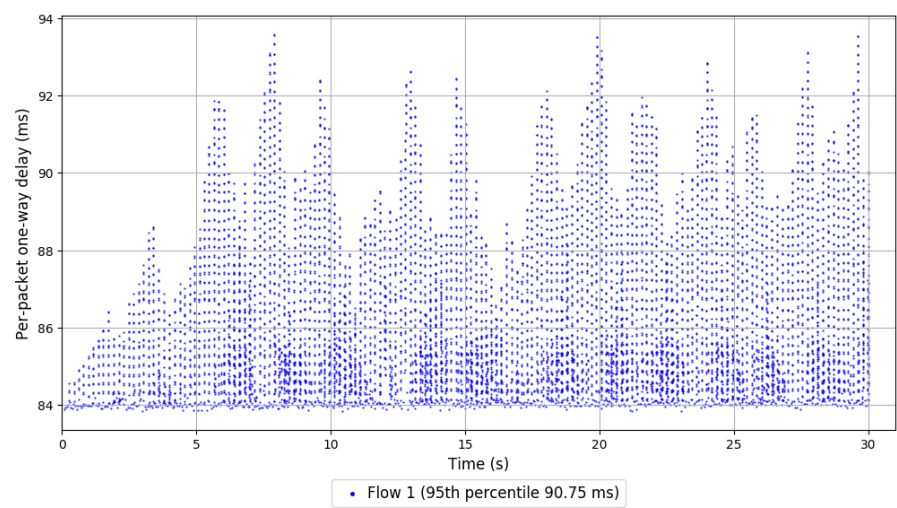
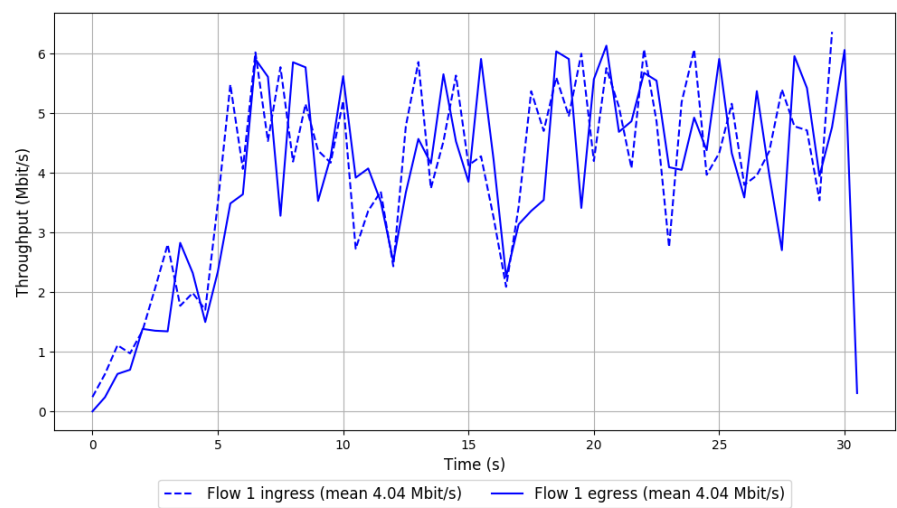
-- Flow 1:

Average throughput: 4.04 Mbit/s

95th percentile per-packet one-way delay: 90.747 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-05-21 23:16:45

End at: 2018-05-21 23:17:15

Local clock offset: -1.651 ms

Remote clock offset: 3.904 ms

Below is generated by plot.py at 2018-05-22 00:57:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.27 Mbit/s

95th percentile per-packet one-way delay: 88.994 ms

Loss rate: 0.00%

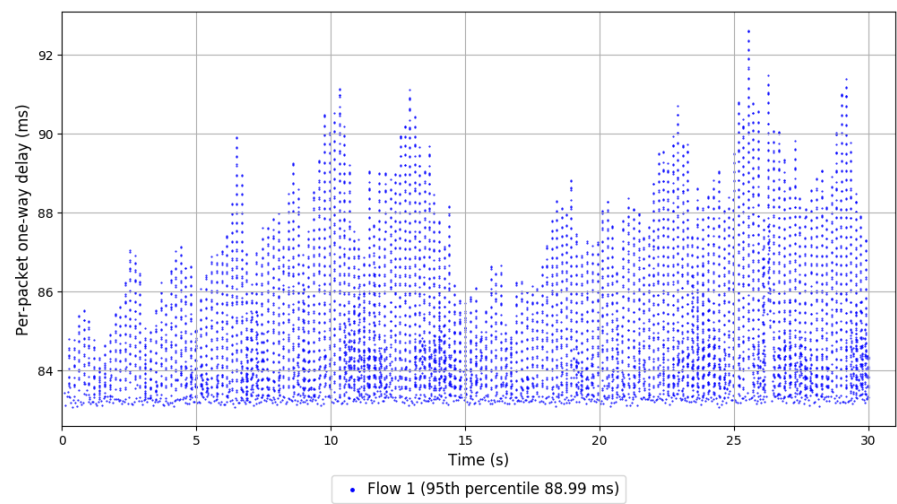
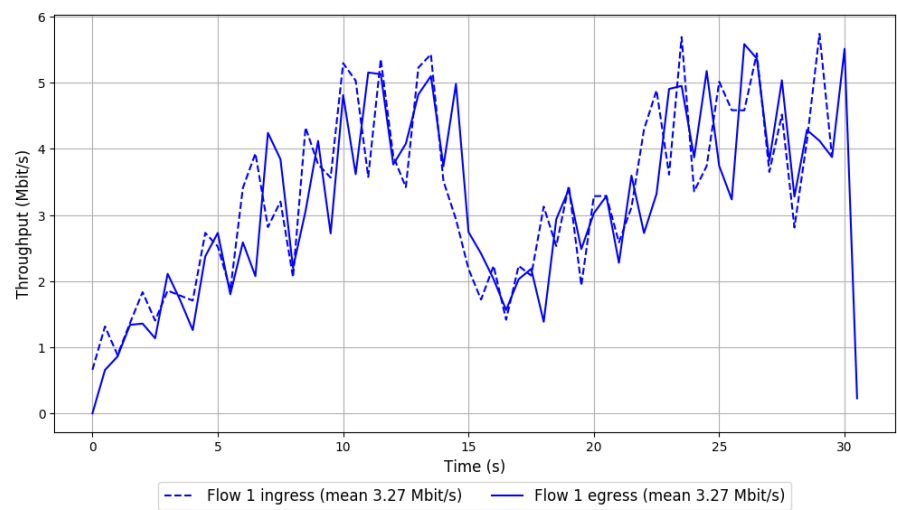
-- Flow 1:

Average throughput: 3.27 Mbit/s

95th percentile per-packet one-way delay: 88.994 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

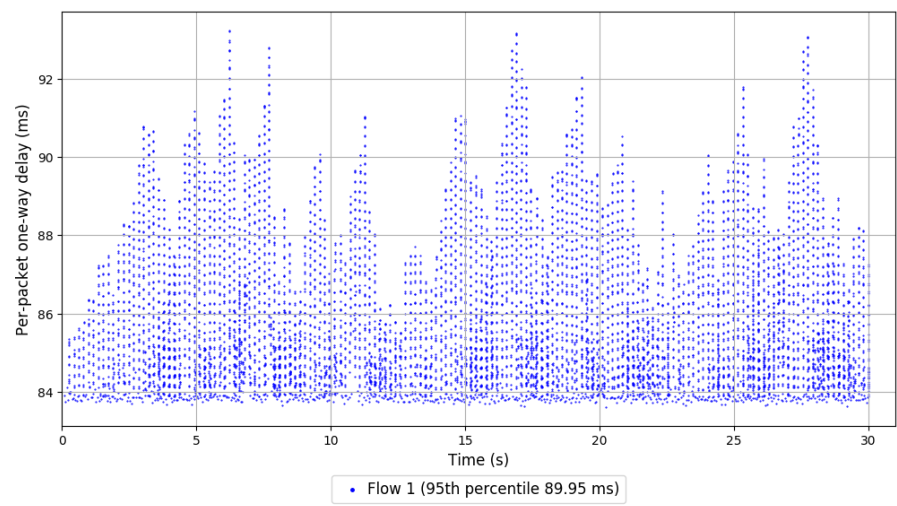
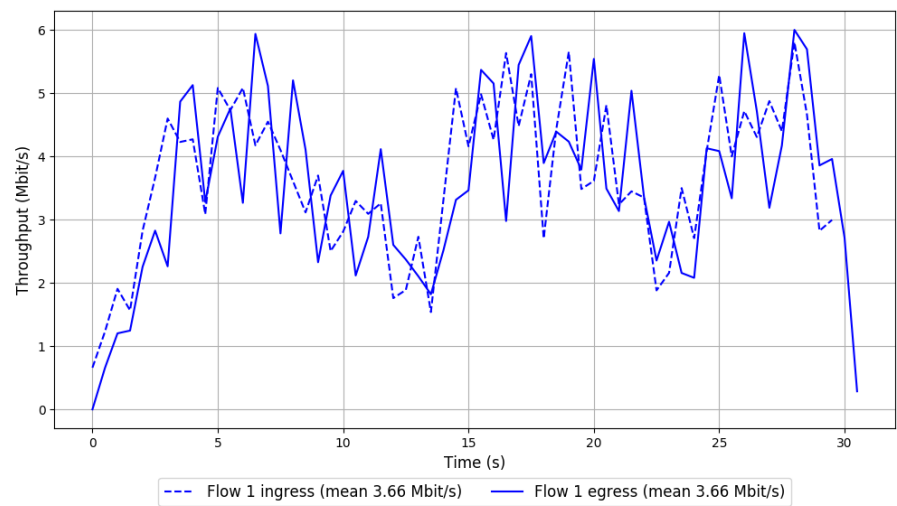


Run 7: Statistics of Sprout

Start at: 2018-05-21 23:35:13
End at: 2018-05-21 23:35:43
Local clock offset: -2.447 ms
Remote clock offset: 7.808 ms

Below is generated by plot.py at 2018-05-22 00:57:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.66 Mbit/s
95th percentile per-packet one-way delay: 89.947 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.66 Mbit/s
95th percentile per-packet one-way delay: 89.947 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-05-21 23:53:43

End at: 2018-05-21 23:54:13

Local clock offset: -4.107 ms

Remote clock offset: 3.027 ms

Below is generated by plot.py at 2018-05-22 00:57:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.52 Mbit/s

95th percentile per-packet one-way delay: 85.646 ms

Loss rate: 0.00%

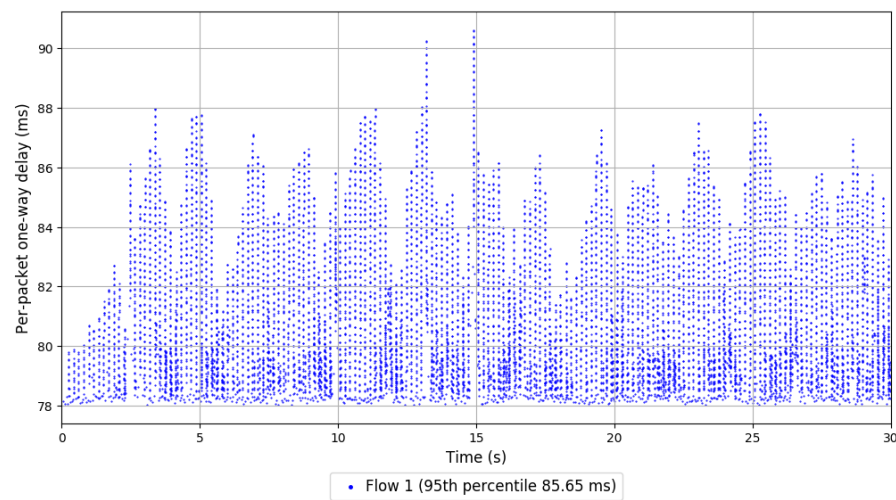
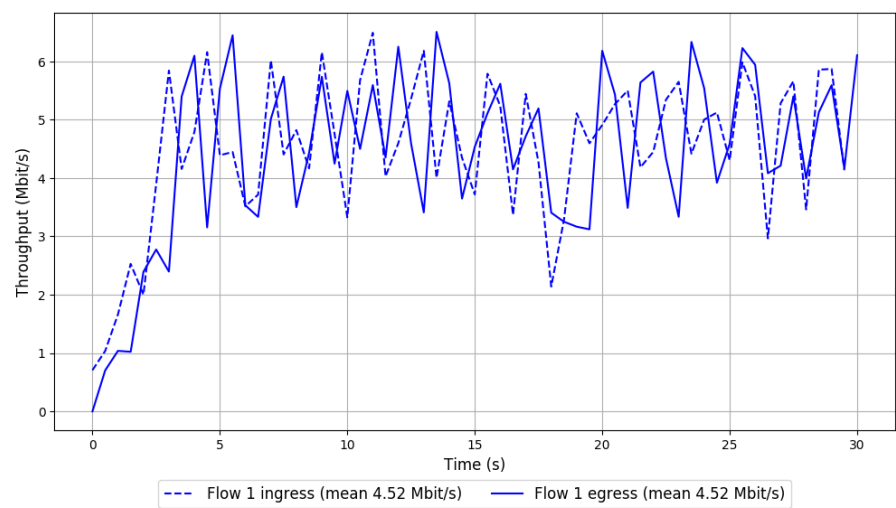
-- Flow 1:

Average throughput: 4.52 Mbit/s

95th percentile per-packet one-way delay: 85.646 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-05-22 00:12:11

End at: 2018-05-22 00:12:41

Local clock offset: -7.014 ms

Remote clock offset: 3.927 ms

Below is generated by plot.py at 2018-05-22 00:57:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 86.256 ms

Loss rate: 0.00%

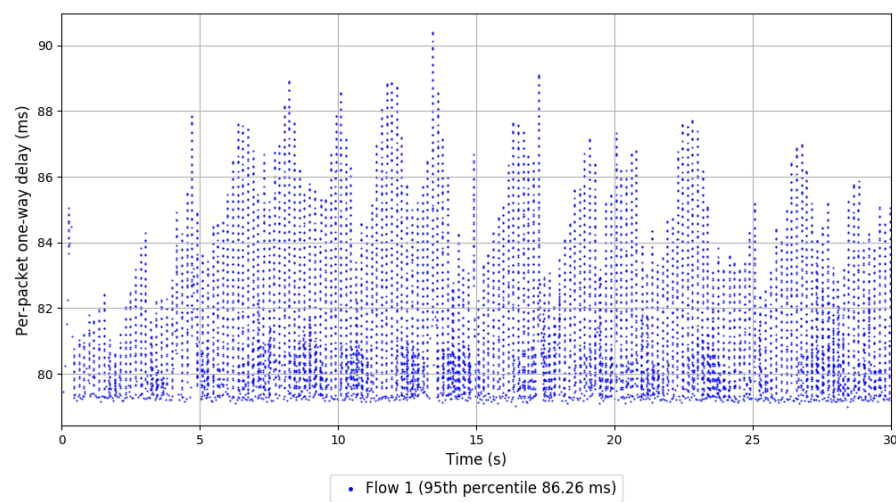
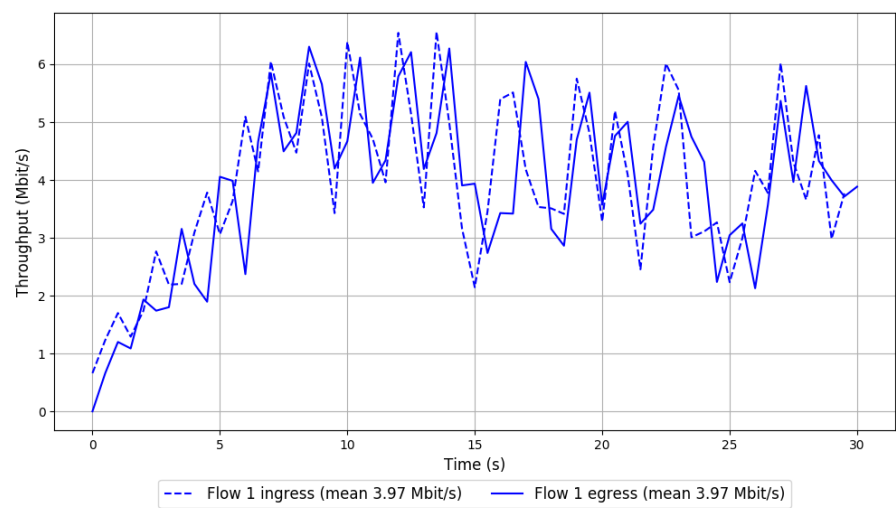
-- Flow 1:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 86.256 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-05-22 00:30:41

End at: 2018-05-22 00:31:11

Local clock offset: -6.162 ms

Remote clock offset: 8.951 ms

Below is generated by plot.py at 2018-05-22 00:57:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 86.773 ms

Loss rate: 0.00%

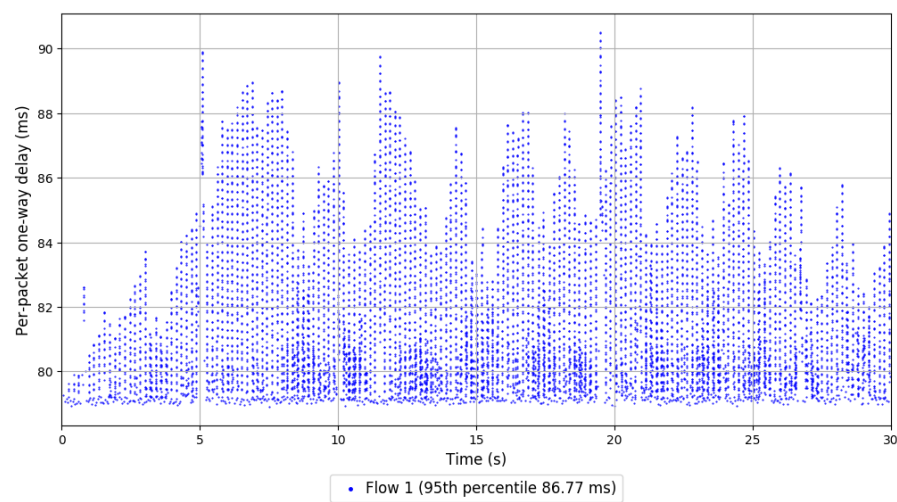
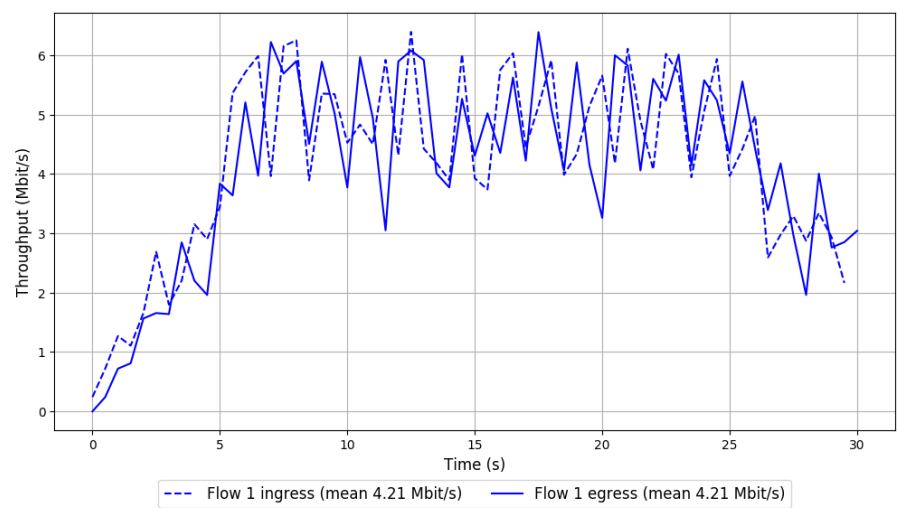
-- Flow 1:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 86.773 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

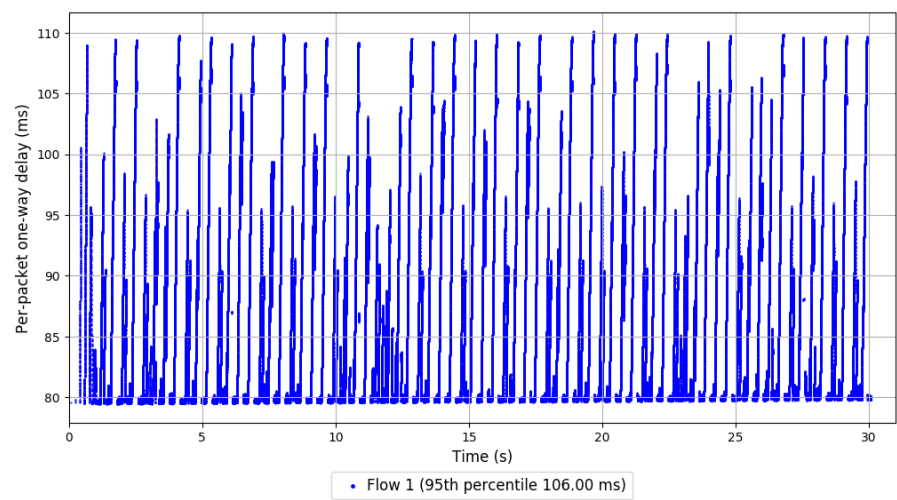
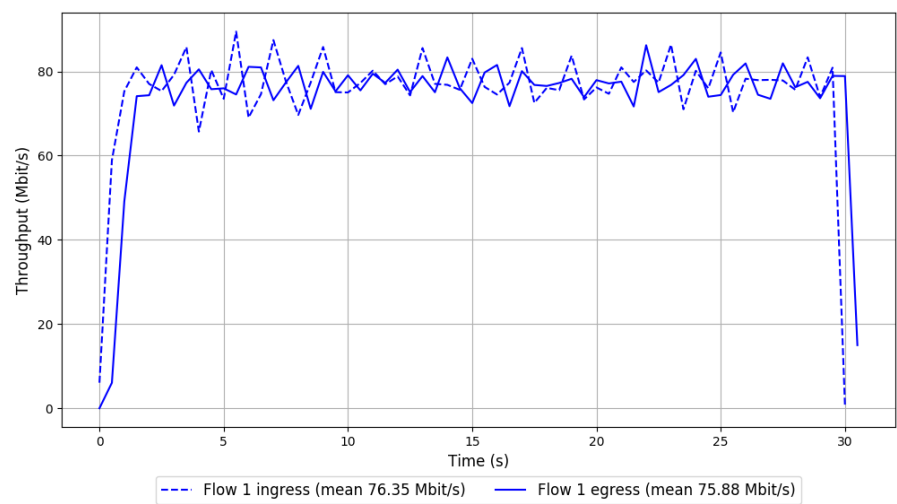


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-05-21 21:48:52
End at: 2018-05-21 21:49:22
Local clock offset: 29.982 ms
Remote clock offset: 3.031 ms

# Below is generated by plot.py at 2018-05-22 00:58:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.88 Mbit/s
95th percentile per-packet one-way delay: 106.005 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 75.88 Mbit/s
95th percentile per-packet one-way delay: 106.005 ms
Loss rate: 0.61%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-05-21 22:07:21

End at: 2018-05-21 22:07:51

Local clock offset: 7.062 ms

Remote clock offset: 7.364 ms

Below is generated by plot.py at 2018-05-22 00:58:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.96 Mbit/s

95th percentile per-packet one-way delay: 118.453 ms

Loss rate: 0.89%

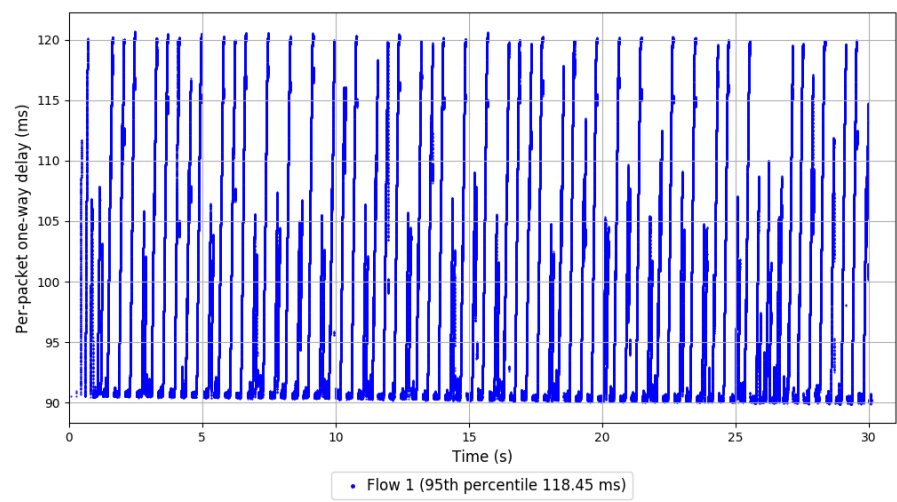
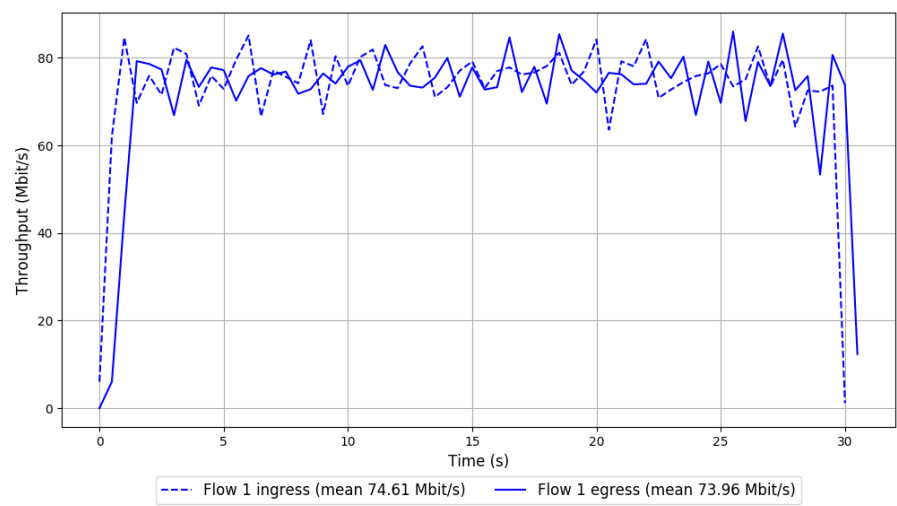
-- Flow 1:

Average throughput: 73.96 Mbit/s

95th percentile per-packet one-way delay: 118.453 ms

Loss rate: 0.89%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-05-21 22:25:51

End at: 2018-05-21 22:26:21

Local clock offset: -3.165 ms

Remote clock offset: 3.3 ms

Below is generated by plot.py at 2018-05-22 00:58:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.03 Mbit/s

95th percentile per-packet one-way delay: 108.113 ms

Loss rate: 0.65%

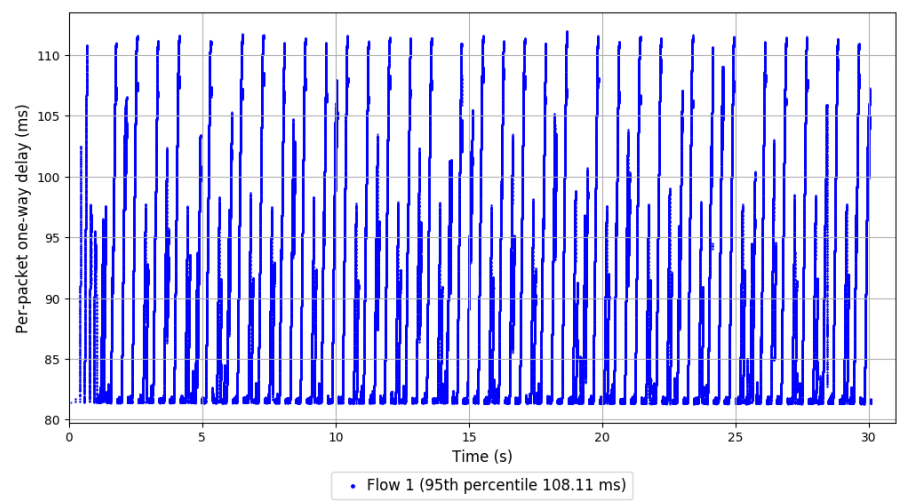
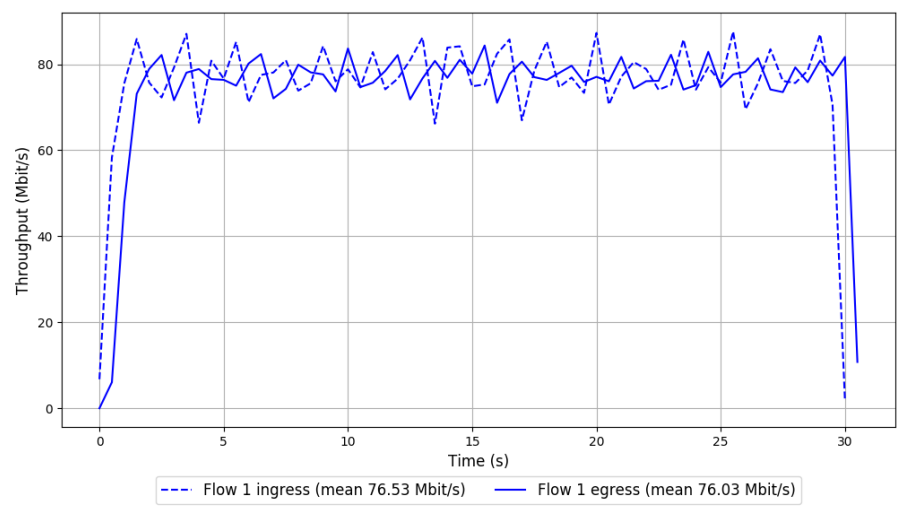
-- Flow 1:

Average throughput: 76.03 Mbit/s

95th percentile per-packet one-way delay: 108.113 ms

Loss rate: 0.65%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-05-21 22:44:21

End at: 2018-05-21 22:44:51

Local clock offset: -3.856 ms

Remote clock offset: 3.683 ms

Below is generated by plot.py at 2018-05-22 00:58:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.06 Mbit/s

95th percentile per-packet one-way delay: 107.849 ms

Loss rate: 0.62%

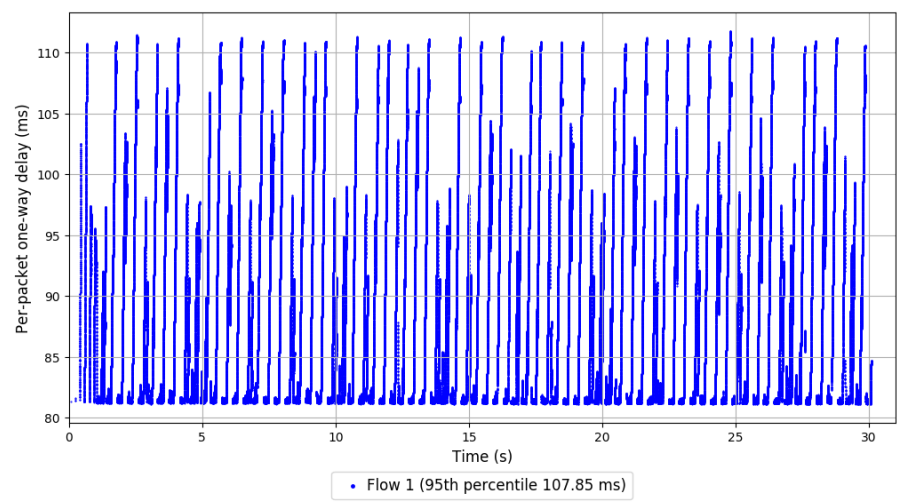
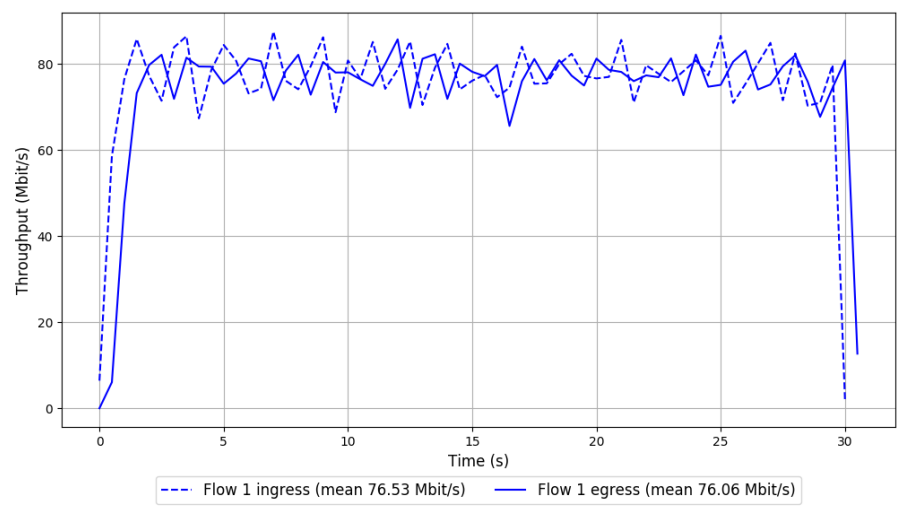
-- Flow 1:

Average throughput: 76.06 Mbit/s

95th percentile per-packet one-way delay: 107.849 ms

Loss rate: 0.62%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-05-21 23:02:51

End at: 2018-05-21 23:03:21

Local clock offset: -4.032 ms

Remote clock offset: 4.66 ms

Below is generated by plot.py at 2018-05-22 00:59:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.55 Mbit/s

95th percentile per-packet one-way delay: 108.358 ms

Loss rate: 0.59%

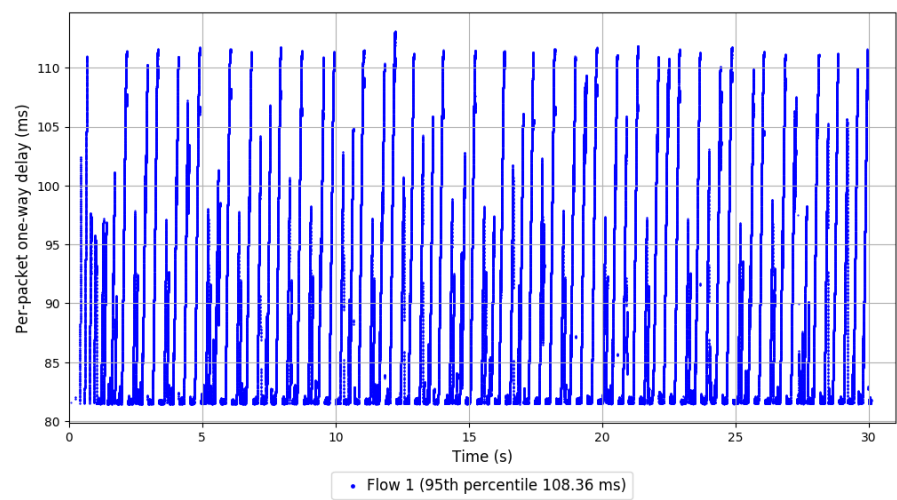
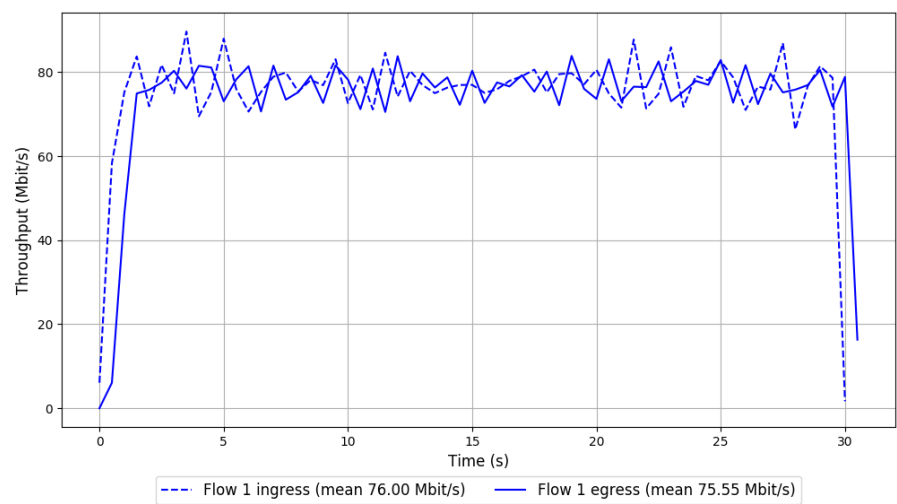
-- Flow 1:

Average throughput: 75.55 Mbit/s

95th percentile per-packet one-way delay: 108.358 ms

Loss rate: 0.59%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-05-21 23:21:24

End at: 2018-05-21 23:21:54

Local clock offset: -2.383 ms

Remote clock offset: 3.525 ms

Below is generated by plot.py at 2018-05-22 00:59:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.62 Mbit/s

95th percentile per-packet one-way delay: 107.273 ms

Loss rate: 0.61%

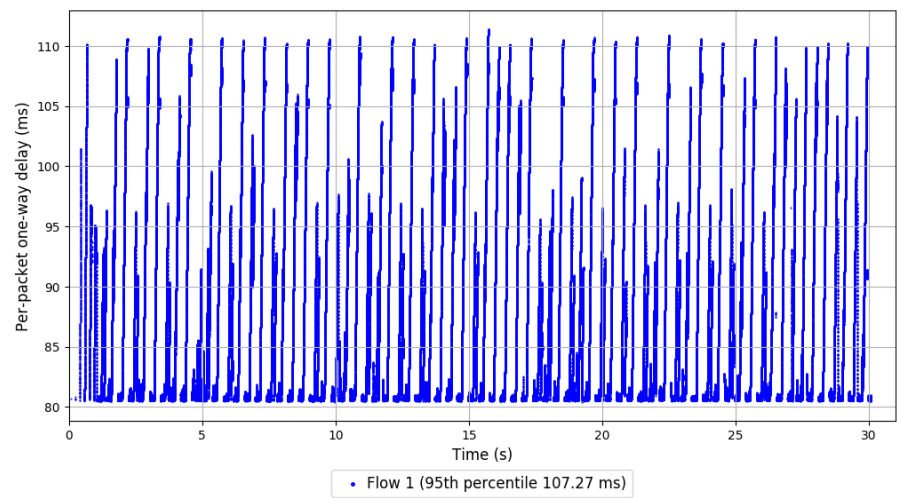
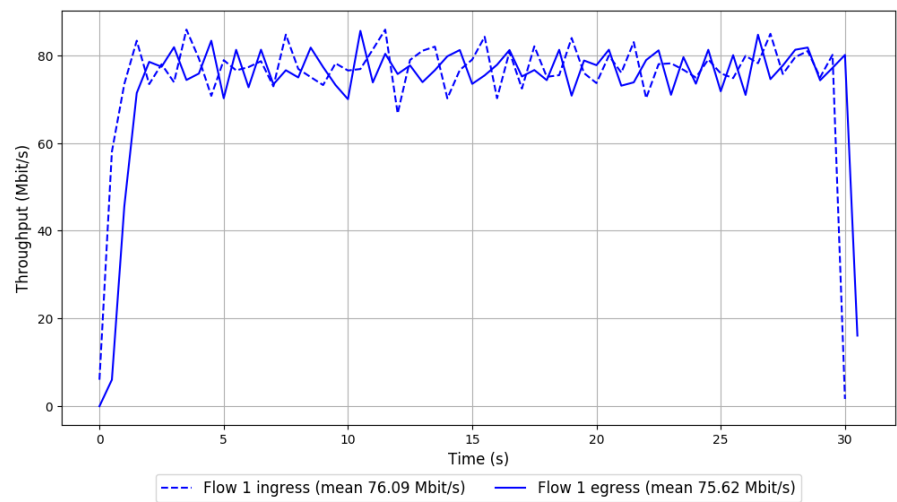
-- Flow 1:

Average throughput: 75.62 Mbit/s

95th percentile per-packet one-way delay: 107.273 ms

Loss rate: 0.61%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-05-21 23:39:54

End at: 2018-05-21 23:40:24

Local clock offset: -2.7 ms

Remote clock offset: 7.742 ms

Below is generated by plot.py at 2018-05-22 00:59:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.60 Mbit/s

95th percentile per-packet one-way delay: 110.193 ms

Loss rate: 0.50%

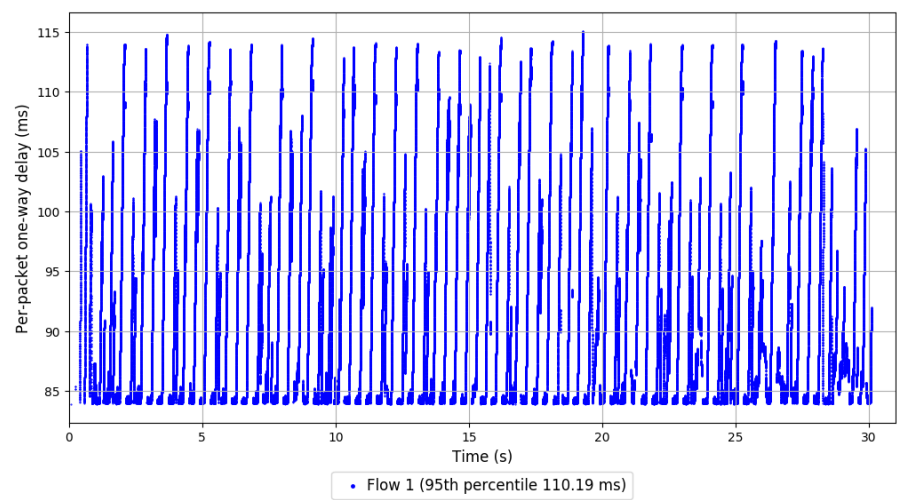
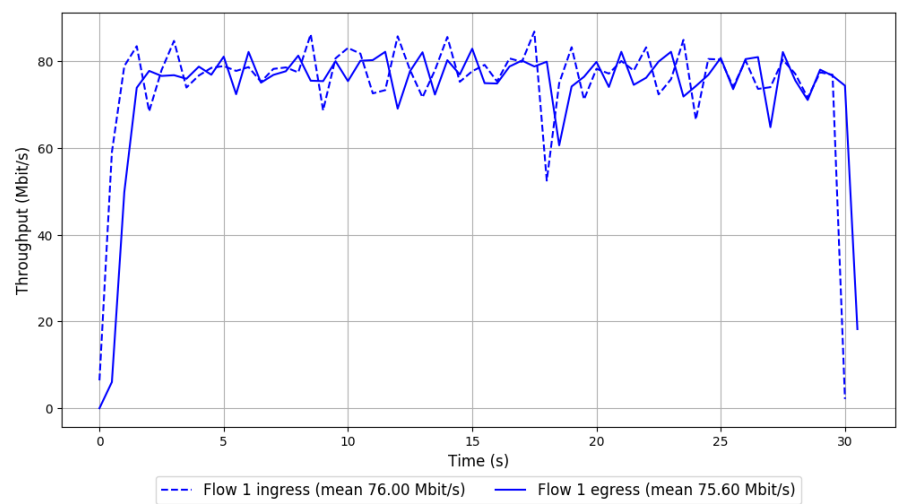
-- Flow 1:

Average throughput: 75.60 Mbit/s

95th percentile per-packet one-way delay: 110.193 ms

Loss rate: 0.50%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-05-21 23:58:22

End at: 2018-05-21 23:58:52

Local clock offset: -5.48 ms

Remote clock offset: 7.822 ms

Below is generated by plot.py at 2018-05-22 00:59:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.80 Mbit/s

95th percentile per-packet one-way delay: 110.369 ms

Loss rate: 0.63%

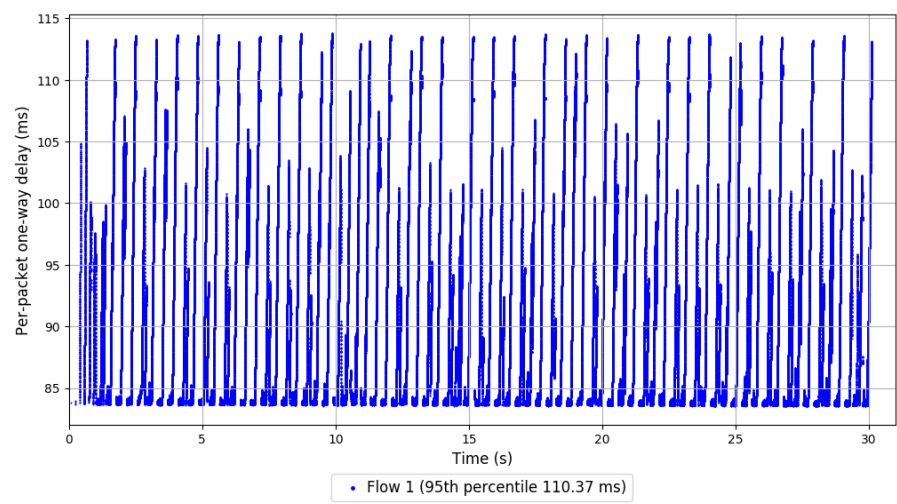
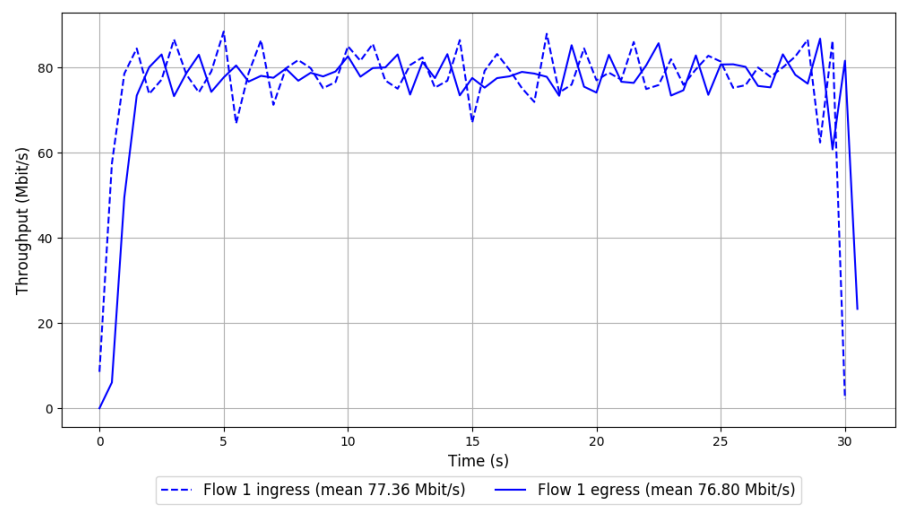
-- Flow 1:

Average throughput: 76.80 Mbit/s

95th percentile per-packet one-way delay: 110.369 ms

Loss rate: 0.63%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-05-22 00:16:51

End at: 2018-05-22 00:17:21

Local clock offset: -8.308 ms

Remote clock offset: 3.019 ms

Below is generated by plot.py at 2018-05-22 01:00:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.91 Mbit/s

95th percentile per-packet one-way delay: 112.030 ms

Loss rate: 0.61%

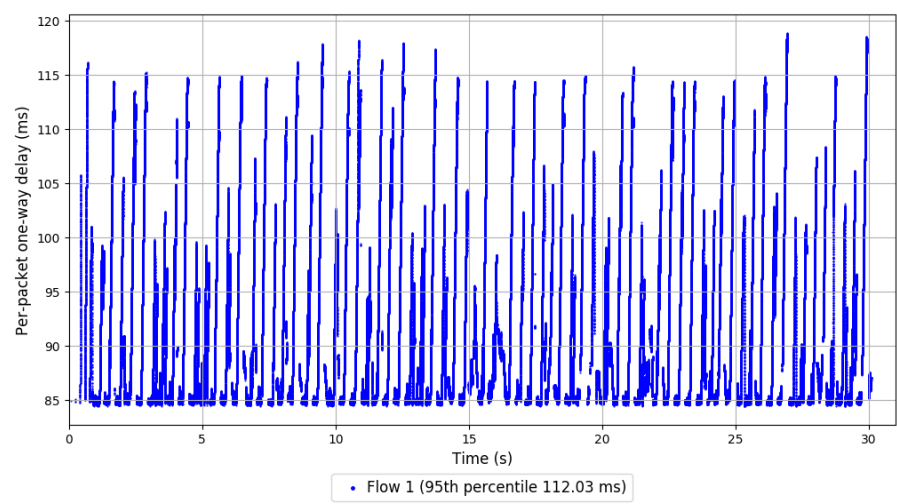
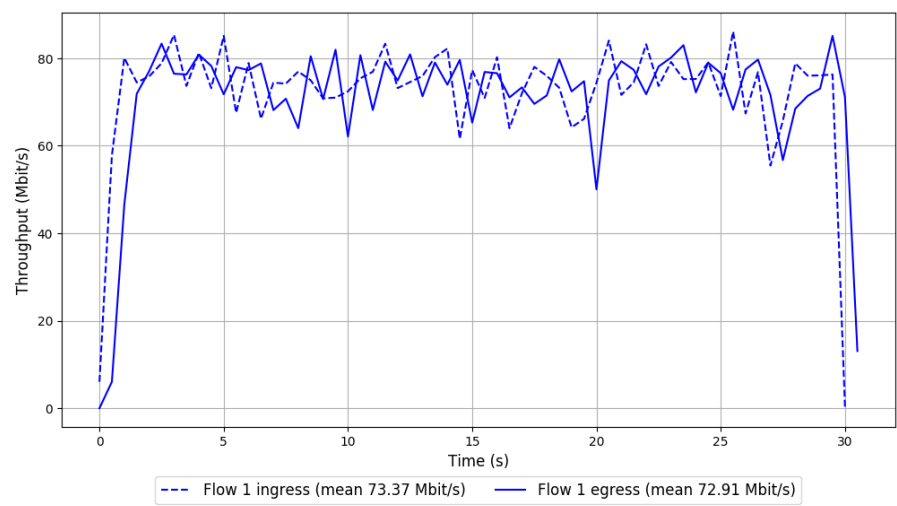
-- Flow 1:

Average throughput: 72.91 Mbit/s

95th percentile per-packet one-way delay: 112.030 ms

Loss rate: 0.61%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-05-22 00:35:22

End at: 2018-05-22 00:35:52

Local clock offset: -4.669 ms

Remote clock offset: 9.91 ms

Below is generated by plot.py at 2018-05-22 01:00:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.08 Mbit/s

95th percentile per-packet one-way delay: 106.896 ms

Loss rate: 0.40%

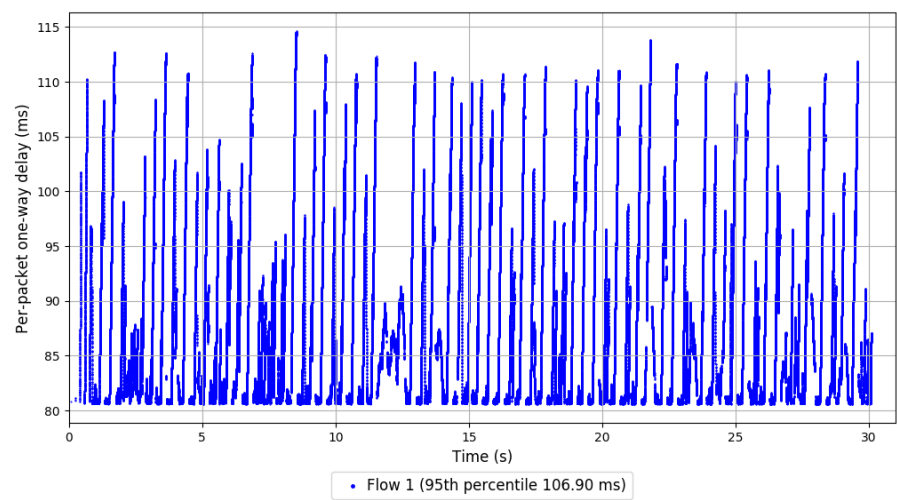
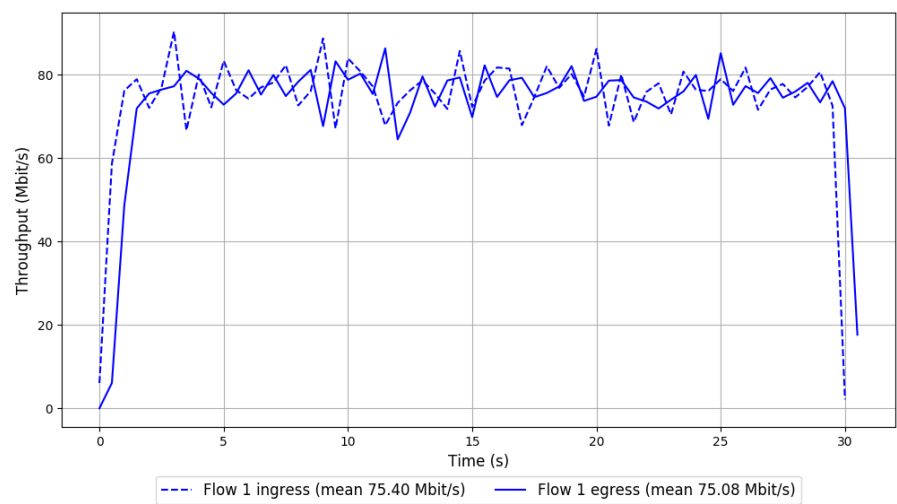
-- Flow 1:

Average throughput: 75.08 Mbit/s

95th percentile per-packet one-way delay: 106.896 ms

Loss rate: 0.40%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-05-21 21:46:33

End at: 2018-05-21 21:47:03

Local clock offset: 27.709 ms

Remote clock offset: 7.613 ms

Below is generated by plot.py at 2018-05-22 01:00:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.35 Mbit/s

95th percentile per-packet one-way delay: 84.041 ms

Loss rate: 0.04%

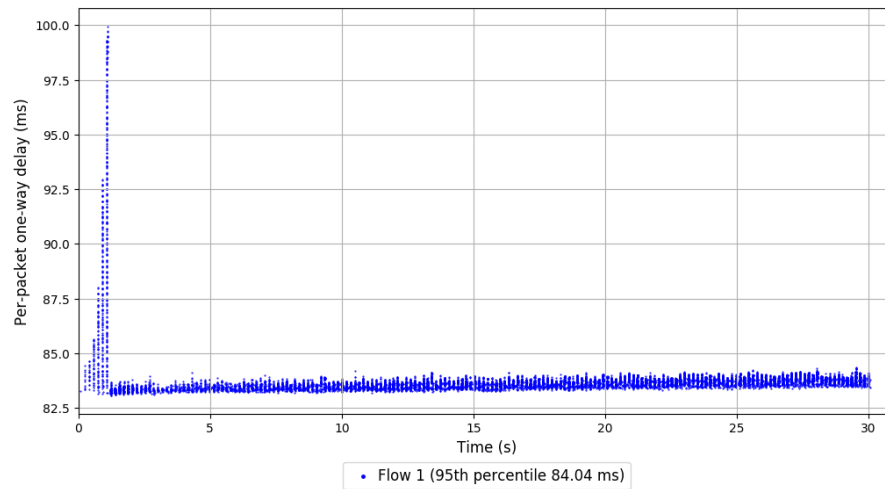
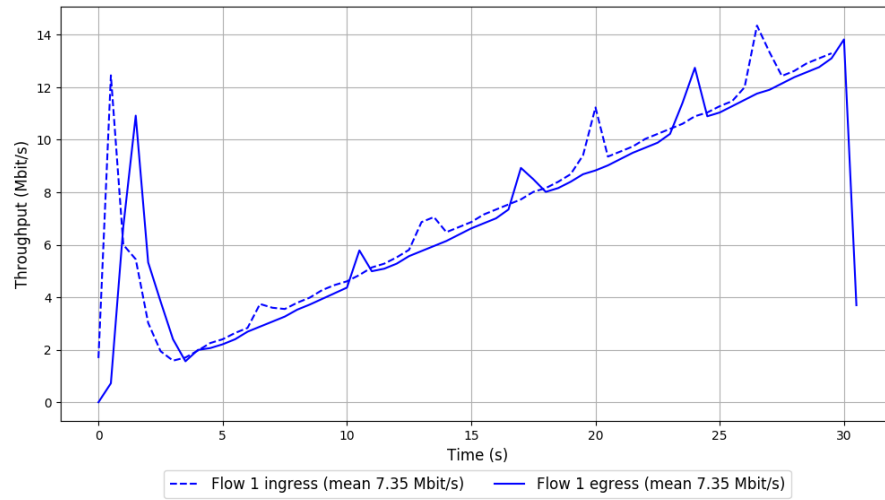
-- Flow 1:

Average throughput: 7.35 Mbit/s

95th percentile per-packet one-way delay: 84.041 ms

Loss rate: 0.04%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-05-21 22:05:00

End at: 2018-05-21 22:05:30

Local clock offset: 12.151 ms

Remote clock offset: 3.574 ms

Below is generated by plot.py at 2018-05-22 01:00:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.21 Mbit/s

95th percentile per-packet one-way delay: 85.535 ms

Loss rate: 0.35%

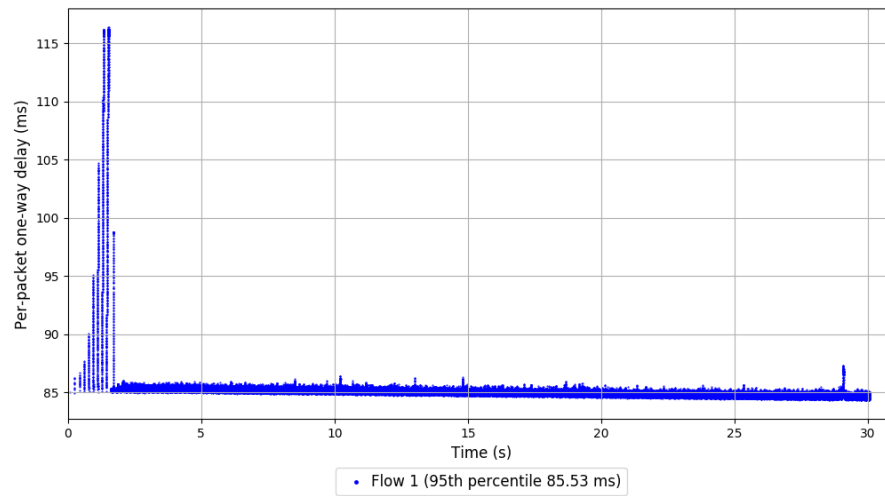
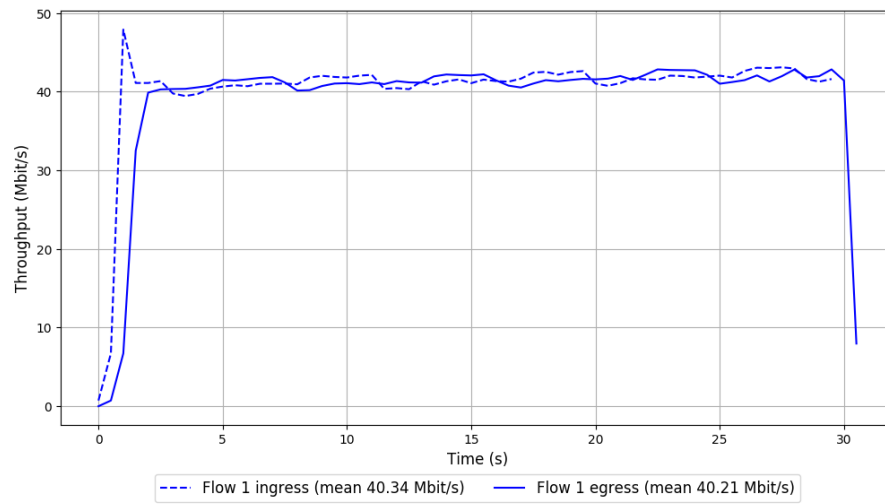
-- Flow 1:

Average throughput: 40.21 Mbit/s

95th percentile per-packet one-way delay: 85.535 ms

Loss rate: 0.35%

Run 2: Report of TCP Vegas — Data Link

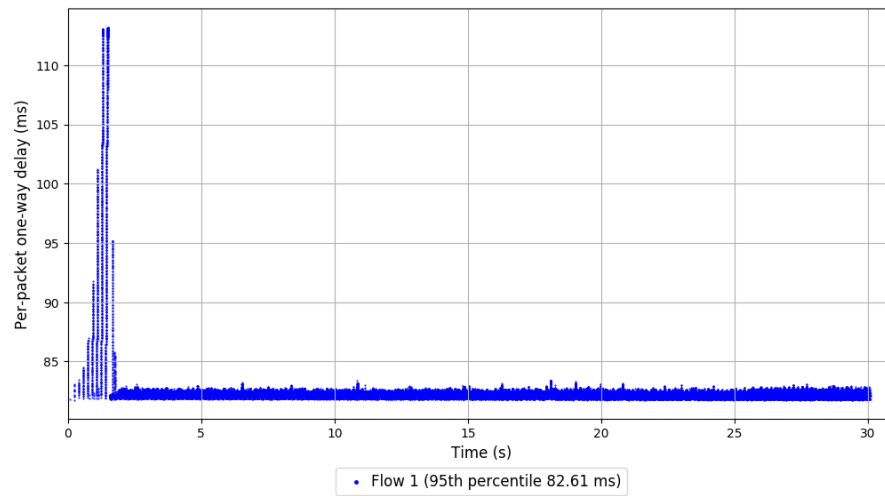
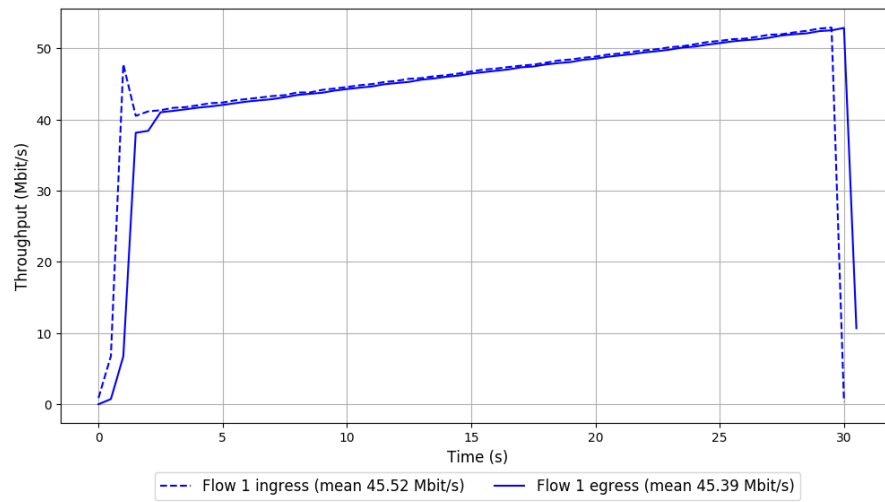


Run 3: Statistics of TCP Vegas

Start at: 2018-05-21 22:23:30
End at: 2018-05-21 22:24:00
Local clock offset: -1.846 ms
Remote clock offset: 3.427 ms

Below is generated by plot.py at 2018-05-22 01:00:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 45.39 Mbit/s
95th percentile per-packet one-way delay: 82.607 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 45.39 Mbit/s
95th percentile per-packet one-way delay: 82.607 ms
Loss rate: 0.27%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-05-21 22:42:00

End at: 2018-05-21 22:42:30

Local clock offset: -2.919 ms

Remote clock offset: 2.693 ms

Below is generated by plot.py at 2018-05-22 01:00:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.94 Mbit/s

95th percentile per-packet one-way delay: 80.075 ms

Loss rate: 0.30%

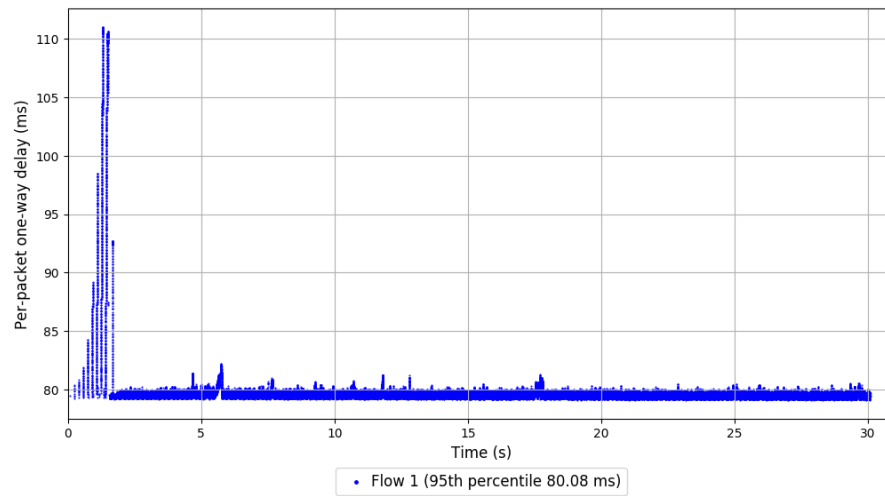
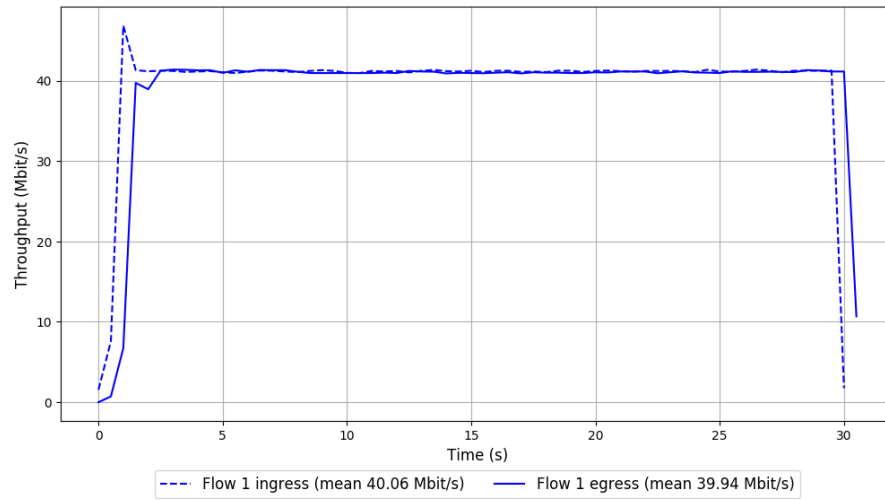
-- Flow 1:

Average throughput: 39.94 Mbit/s

95th percentile per-packet one-way delay: 80.075 ms

Loss rate: 0.30%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-05-21 23:00:29

End at: 2018-05-21 23:00:59

Local clock offset: -3.658 ms

Remote clock offset: 7.645 ms

Below is generated by plot.py at 2018-05-22 01:00:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.26 Mbit/s

95th percentile per-packet one-way delay: 84.865 ms

Loss rate: 0.27%

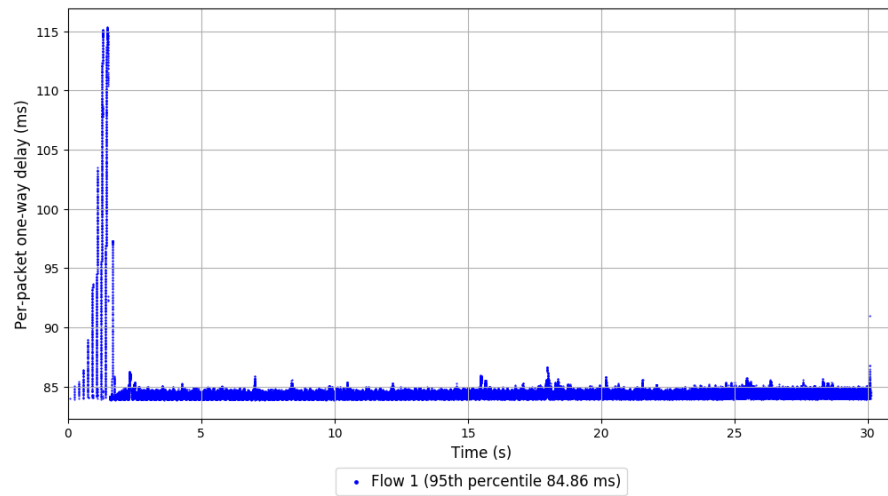
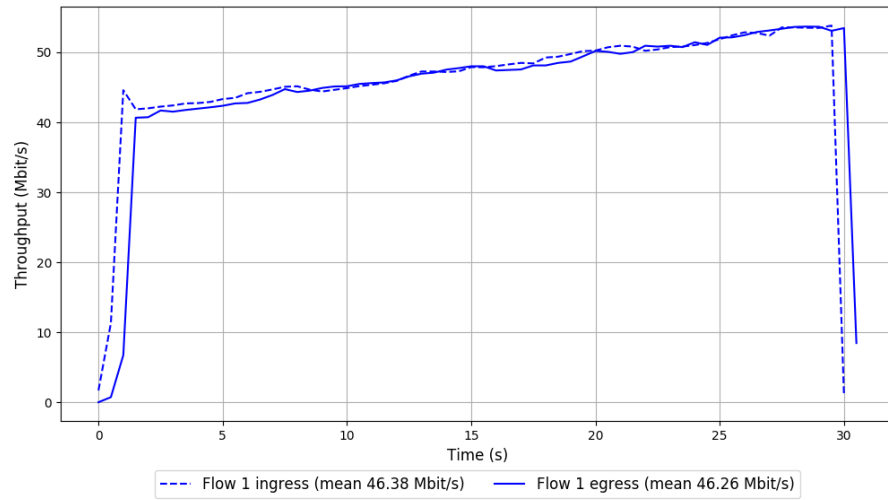
-- Flow 1:

Average throughput: 46.26 Mbit/s

95th percentile per-packet one-way delay: 84.865 ms

Loss rate: 0.27%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-05-21 23:19:04

End at: 2018-05-21 23:19:34

Local clock offset: -2.404 ms

Remote clock offset: 9.082 ms

Below is generated by plot.py at 2018-05-22 01:00:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.08 Mbit/s

95th percentile per-packet one-way delay: 96.113 ms

Loss rate: 1.02%

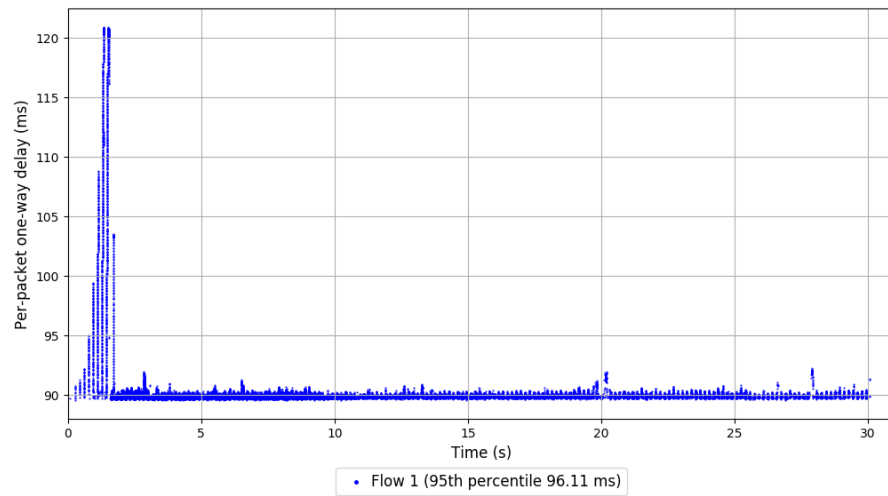
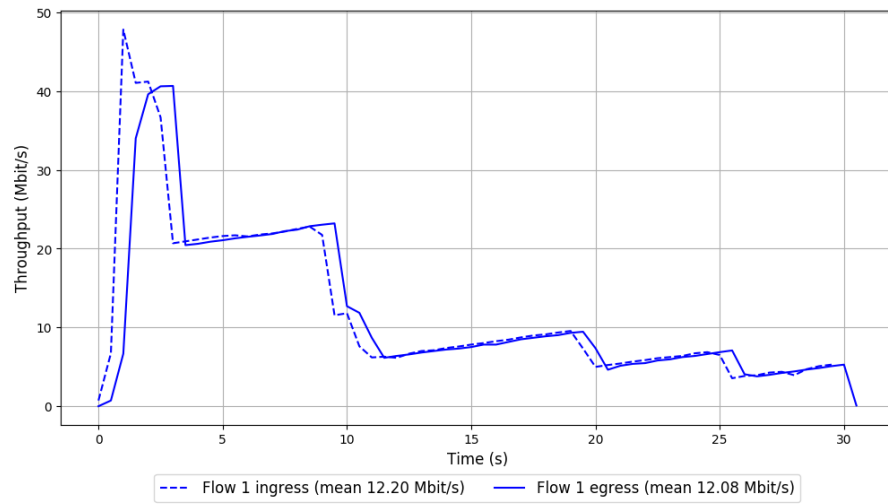
-- Flow 1:

Average throughput: 12.08 Mbit/s

95th percentile per-packet one-way delay: 96.113 ms

Loss rate: 1.02%

Run 6: Report of TCP Vegas — Data Link

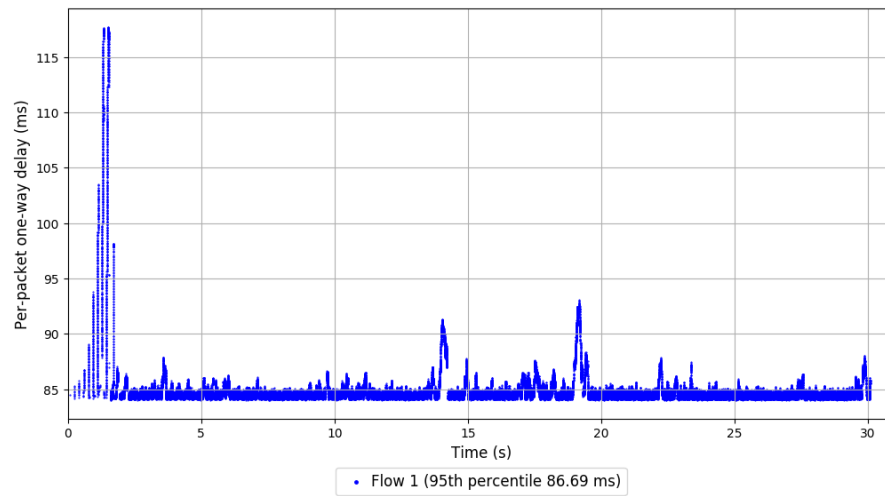
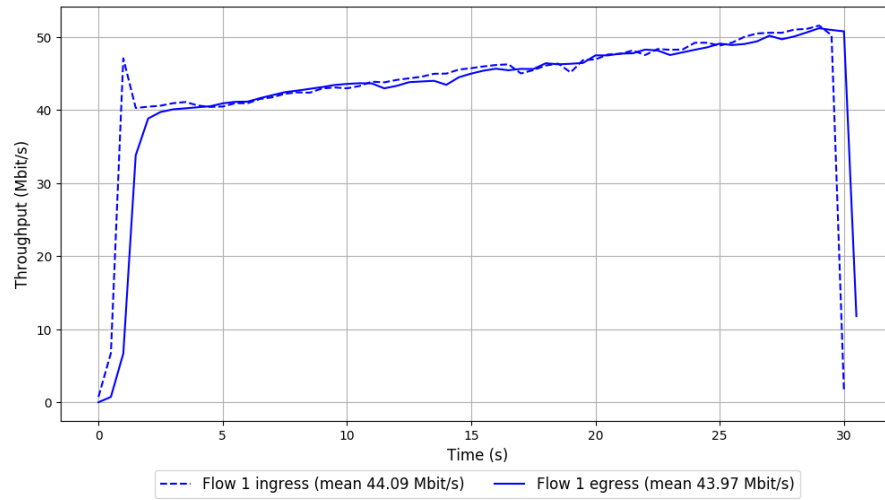


Run 7: Statistics of TCP Vegas

Start at: 2018-05-21 23:37:34
End at: 2018-05-21 23:38:04
Local clock offset: -2.587 ms
Remote clock offset: 3.955 ms

Below is generated by plot.py at 2018-05-22 01:00:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 43.97 Mbit/s
95th percentile per-packet one-way delay: 86.695 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 43.97 Mbit/s
95th percentile per-packet one-way delay: 86.695 ms
Loss rate: 0.27%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-05-21 23:56:02

End at: 2018-05-21 23:56:32

Local clock offset: -4.125 ms

Remote clock offset: 6.767 ms

Below is generated by plot.py at 2018-05-22 01:00:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.31 Mbit/s

95th percentile per-packet one-way delay: 87.752 ms

Loss rate: 0.62%

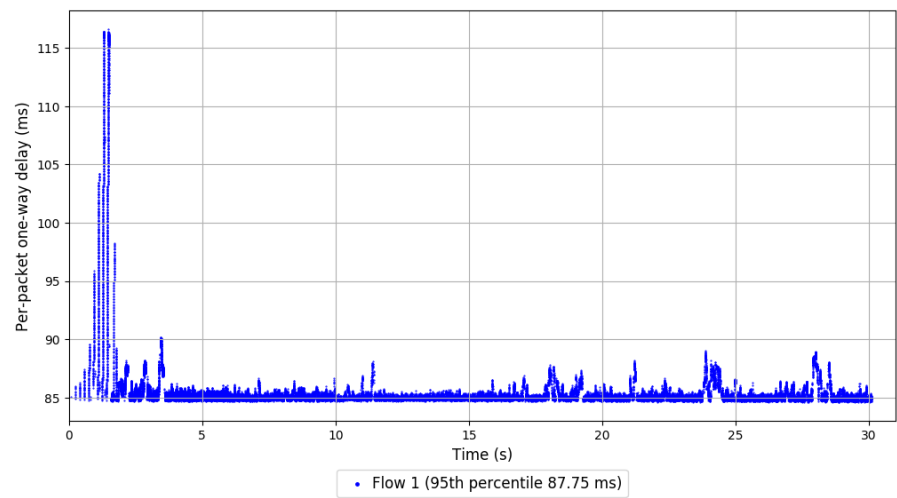
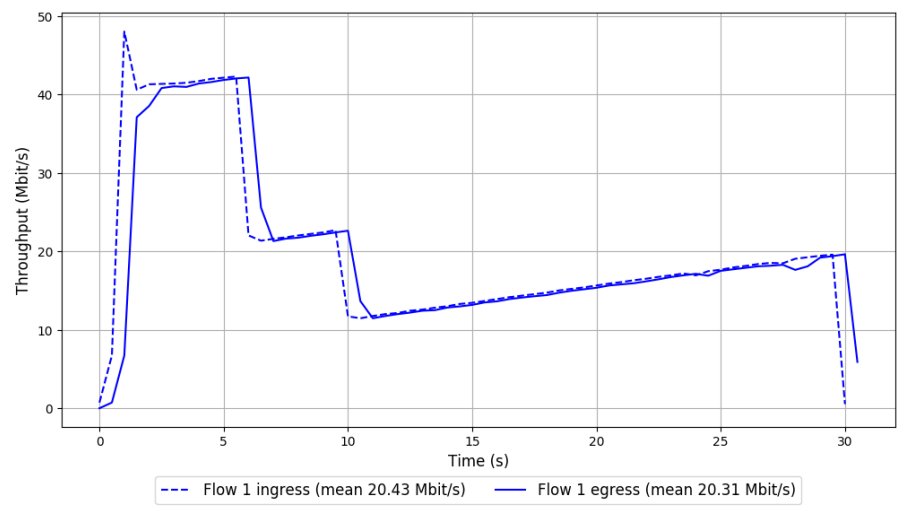
-- Flow 1:

Average throughput: 20.31 Mbit/s

95th percentile per-packet one-way delay: 87.752 ms

Loss rate: 0.62%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-05-22 00:14:31

End at: 2018-05-22 00:15:01

Local clock offset: -6.504 ms

Remote clock offset: 6.815 ms

Below is generated by plot.py at 2018-05-22 01:00:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.27 Mbit/s

95th percentile per-packet one-way delay: 90.393 ms

Loss rate: 0.42%

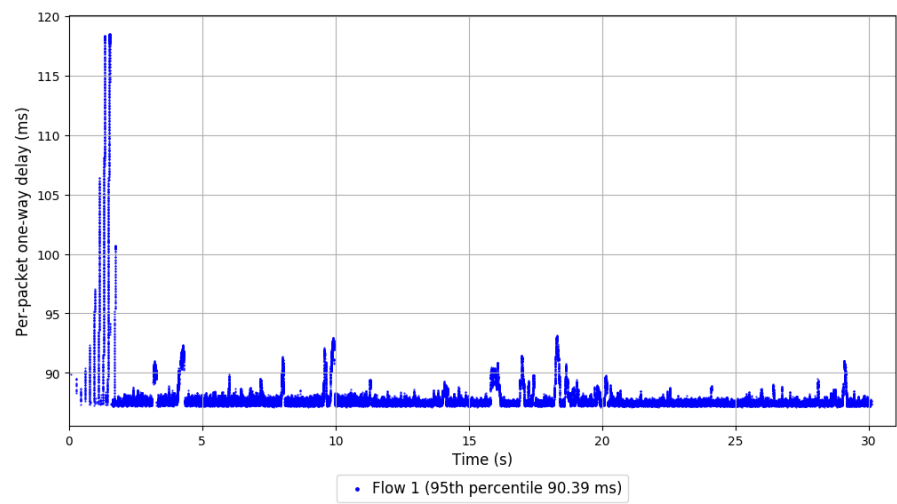
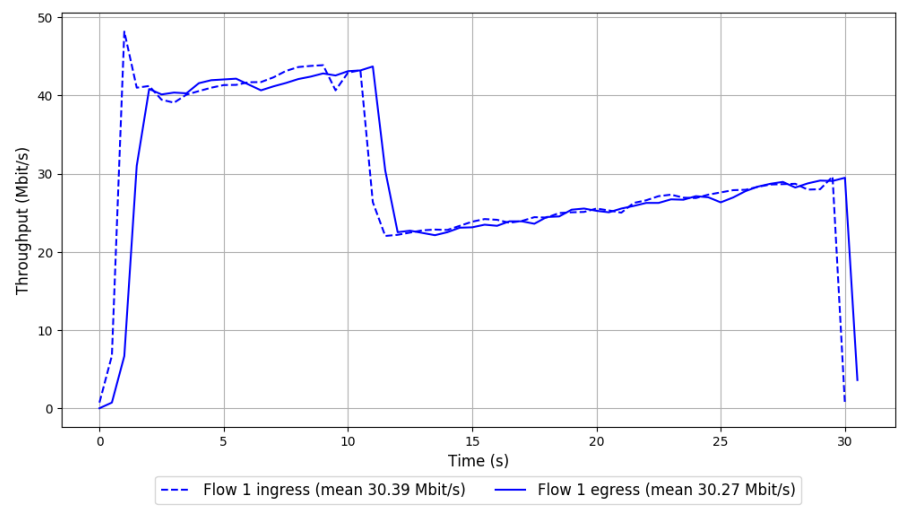
-- Flow 1:

Average throughput: 30.27 Mbit/s

95th percentile per-packet one-way delay: 90.393 ms

Loss rate: 0.42%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-05-22 00:33:02

End at: 2018-05-22 00:33:32

Local clock offset: -5.372 ms

Remote clock offset: 13.61 ms

Below is generated by plot.py at 2018-05-22 01:00:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.27 Mbit/s

95th percentile per-packet one-way delay: 88.893 ms

Loss rate: 0.34%

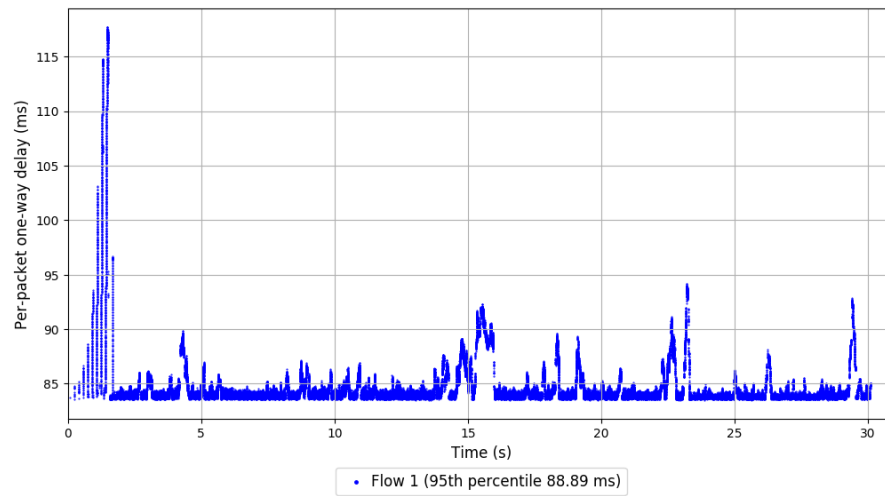
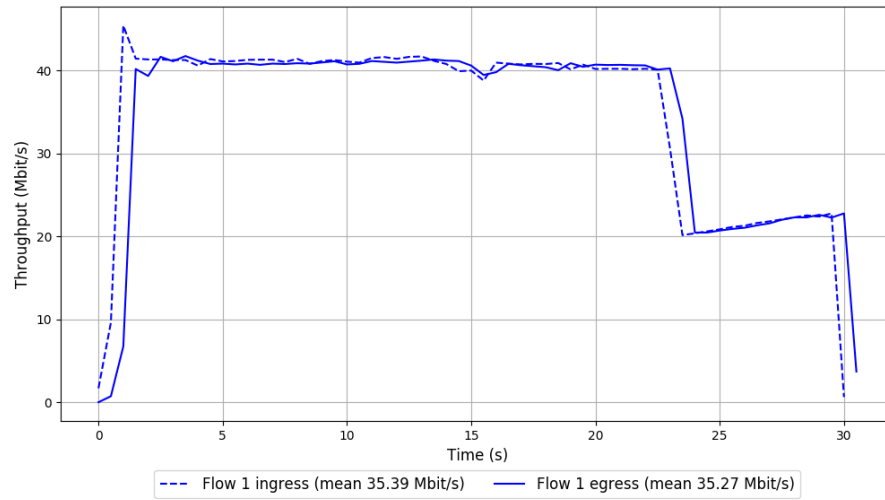
-- Flow 1:

Average throughput: 35.27 Mbit/s

95th percentile per-packet one-way delay: 88.893 ms

Loss rate: 0.34%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-05-21 21:40:50

End at: 2018-05-21 21:41:20

Local clock offset: 24.842 ms

Remote clock offset: 7.816 ms

Run 1: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Verus

Start at: 2018-05-21 21:59:18

End at: 2018-05-21 21:59:48

Local clock offset: 24.92 ms

Remote clock offset: 2.86 ms

Run 2: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Verus

Start at: 2018-05-21 22:17:47

End at: 2018-05-21 22:18:17

Local clock offset: -0.937 ms

Remote clock offset: 3.508 ms

Run 3: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of Verus

Start at: 2018-05-21 22:36:17

End at: 2018-05-21 22:36:47

Local clock offset: -2.54 ms

Remote clock offset: 2.397 ms

Run 4: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of Verus

Start at: 2018-05-21 22:54:47

End at: 2018-05-21 22:55:17

Local clock offset: -3.653 ms

Remote clock offset: 9.169 ms

Run 5: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of Verus

Start at: 2018-05-21 23:13:22

End at: 2018-05-21 23:13:52

Local clock offset: -3.313 ms

Remote clock offset: 4.852 ms

Run 6: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of Verus

Start at: 2018-05-21 23:31:50

End at: 2018-05-21 23:32:20

Local clock offset: -2.944 ms

Remote clock offset: 3.977 ms

Run 7: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of Verus

Start at: 2018-05-21 23:50:20

End at: 2018-05-21 23:50:50

Local clock offset: -3.14 ms

Remote clock offset: 3.879 ms

Run 8: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of Verus

Start at: 2018-05-22 00:08:48

End at: 2018-05-22 00:09:18

Local clock offset: -5.849 ms

Remote clock offset: 7.677 ms

Run 9: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of Verus

Start at: 2018-05-22 00:27:18

End at: 2018-05-22 00:27:48

Local clock offset: -7.814 ms

Remote clock offset: 11.969 ms

Run 10: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of PCC-Vivace

Start at: 2018-05-21 21:57:00

End at: 2018-05-21 21:57:30

Local clock offset: 33.775 ms

Remote clock offset: 2.901 ms

Below is generated by plot.py at 2018-05-22 01:00:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.68 Mbit/s

95th percentile per-packet one-way delay: 103.617 ms

Loss rate: 0.15%

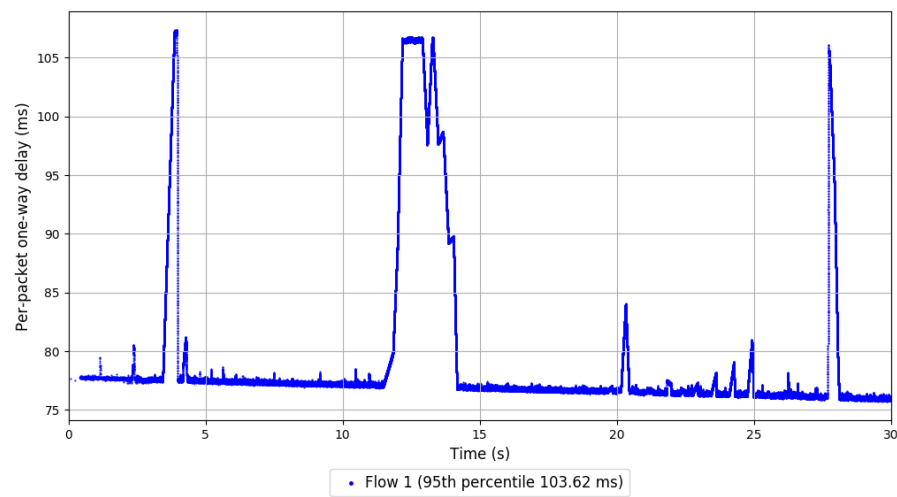
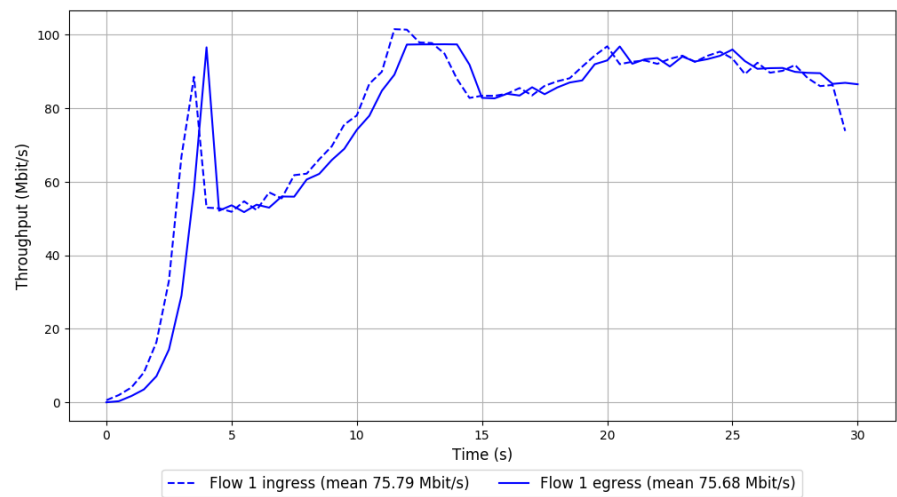
-- Flow 1:

Average throughput: 75.68 Mbit/s

95th percentile per-packet one-way delay: 103.617 ms

Loss rate: 0.15%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-05-21 22:15:29

End at: 2018-05-21 22:15:59

Local clock offset: 0.246 ms

Remote clock offset: 7.411 ms

Below is generated by plot.py at 2018-05-22 01:00:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.41 Mbit/s

95th percentile per-packet one-way delay: 108.985 ms

Loss rate: 0.14%

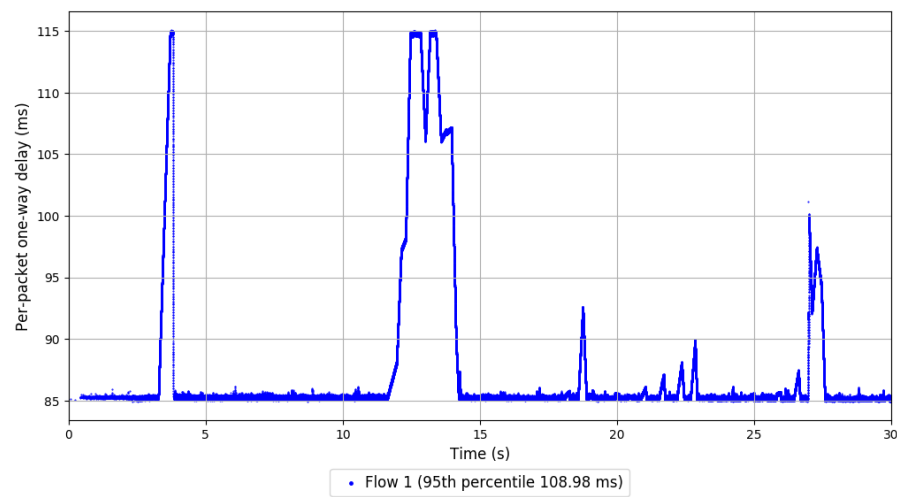
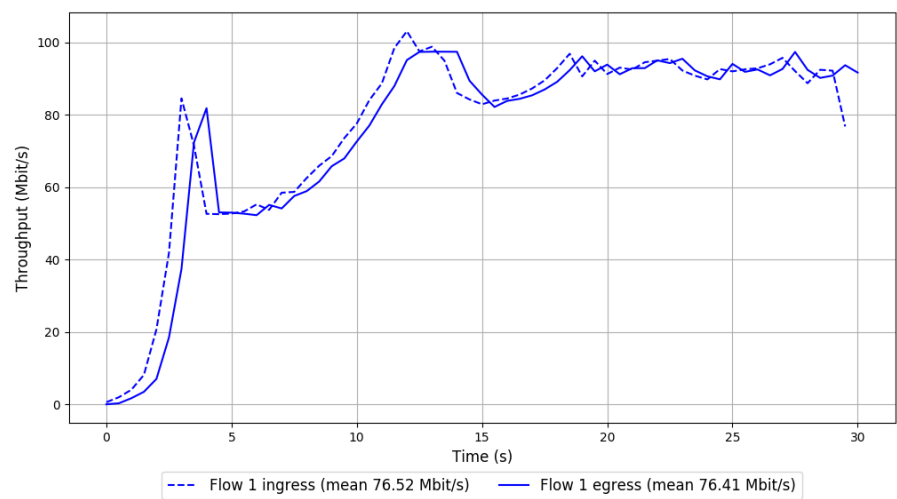
-- Flow 1:

Average throughput: 76.41 Mbit/s

95th percentile per-packet one-way delay: 108.985 ms

Loss rate: 0.14%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-05-21 22:33:59

End at: 2018-05-21 22:34:29

Local clock offset: -3.116 ms

Remote clock offset: 6.369 ms

Below is generated by plot.py at 2018-05-22 01:00:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.68 Mbit/s

95th percentile per-packet one-way delay: 108.031 ms

Loss rate: 0.13%

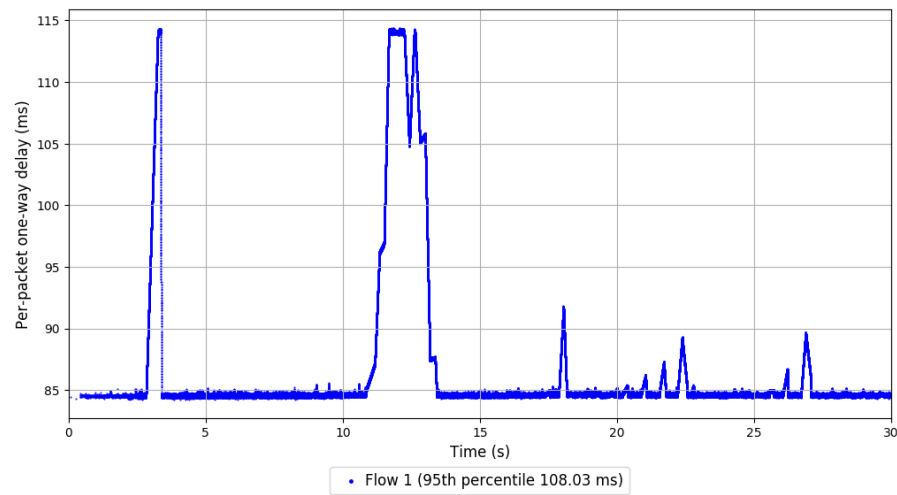
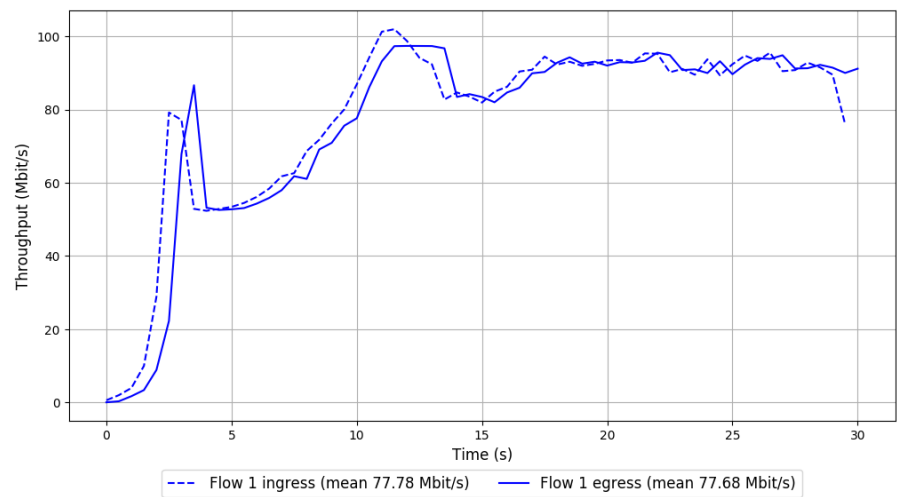
-- Flow 1:

Average throughput: 77.68 Mbit/s

95th percentile per-packet one-way delay: 108.031 ms

Loss rate: 0.13%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-05-21 22:52:29

End at: 2018-05-21 22:52:59

Local clock offset: -4.291 ms

Remote clock offset: 8.151 ms

Below is generated by plot.py at 2018-05-22 01:00:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.77 Mbit/s

95th percentile per-packet one-way delay: 110.621 ms

Loss rate: 0.09%

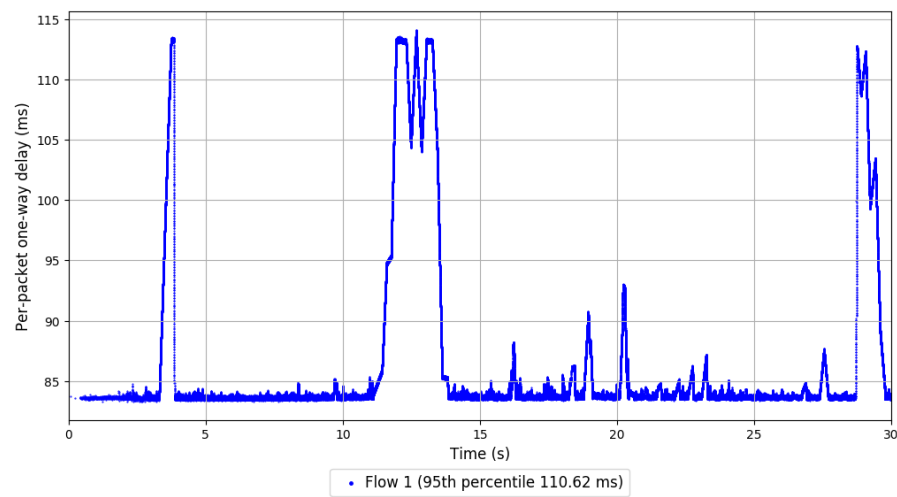
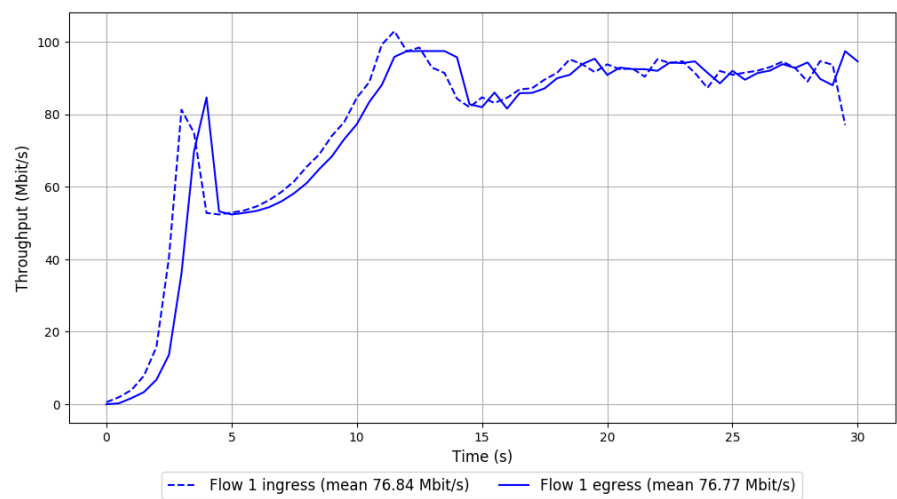
-- Flow 1:

Average throughput: 76.77 Mbit/s

95th percentile per-packet one-way delay: 110.621 ms

Loss rate: 0.09%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-05-21 23:11:04

End at: 2018-05-21 23:11:34

Local clock offset: -2.566 ms

Remote clock offset: 7.9 ms

Below is generated by plot.py at 2018-05-22 01:00:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.58 Mbit/s

95th percentile per-packet one-way delay: 113.788 ms

Loss rate: 0.17%

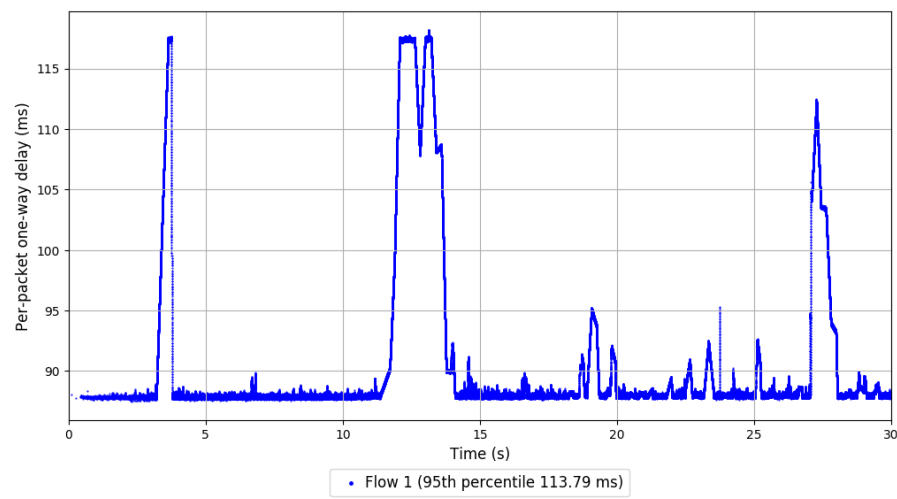
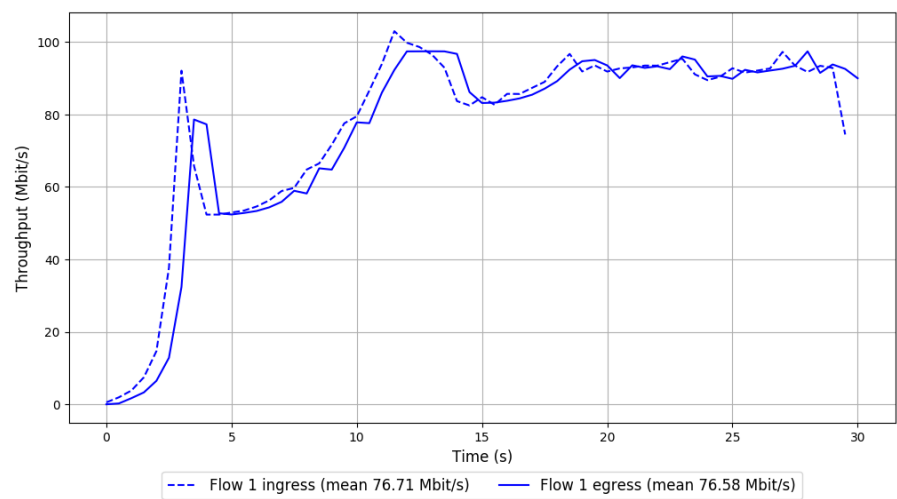
-- Flow 1:

Average throughput: 76.58 Mbit/s

95th percentile per-packet one-way delay: 113.788 ms

Loss rate: 0.17%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-05-21 23:29:32

End at: 2018-05-21 23:30:02

Local clock offset: -3.498 ms

Remote clock offset: 7.813 ms

Below is generated by plot.py at 2018-05-22 01:01:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.44 Mbit/s

95th percentile per-packet one-way delay: 97.752 ms

Loss rate: 0.05%

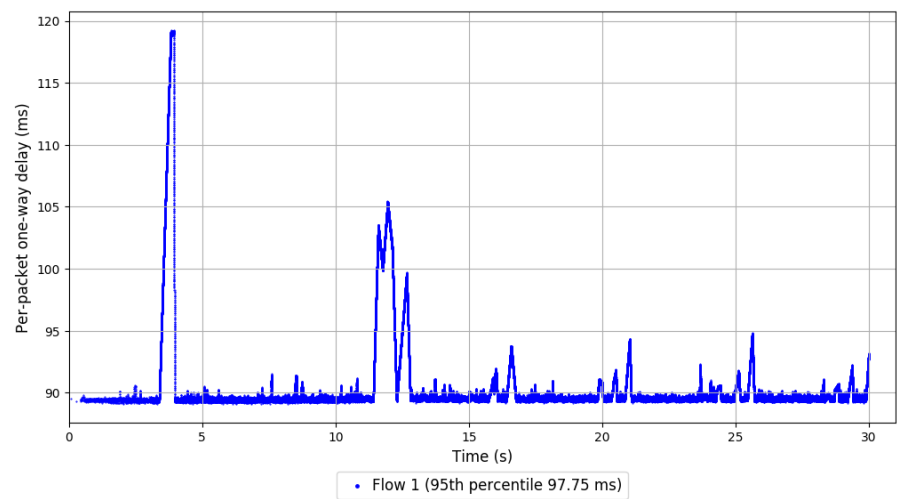
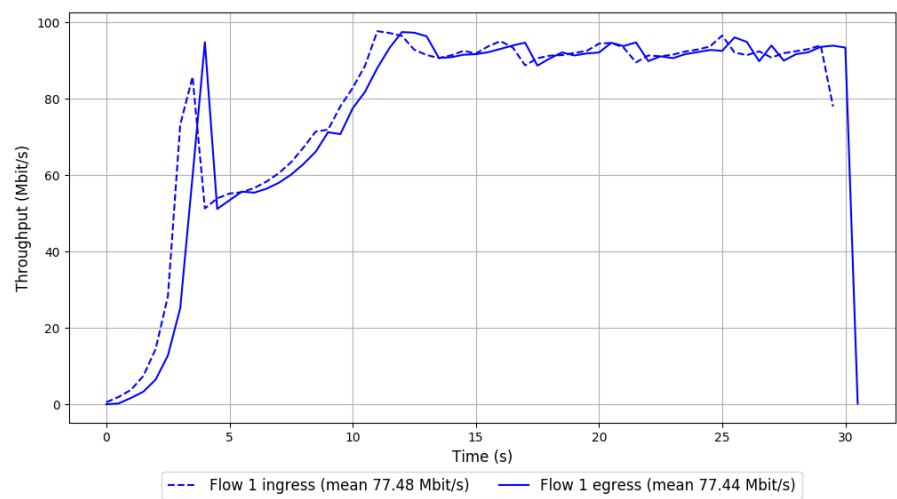
-- Flow 1:

Average throughput: 77.44 Mbit/s

95th percentile per-packet one-way delay: 97.752 ms

Loss rate: 0.05%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-05-21 23:48:02

End at: 2018-05-21 23:48:32

Local clock offset: -4.597 ms

Remote clock offset: 3.902 ms

Below is generated by plot.py at 2018-05-22 01:01:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.27 Mbit/s

95th percentile per-packet one-way delay: 89.829 ms

Loss rate: 0.03%

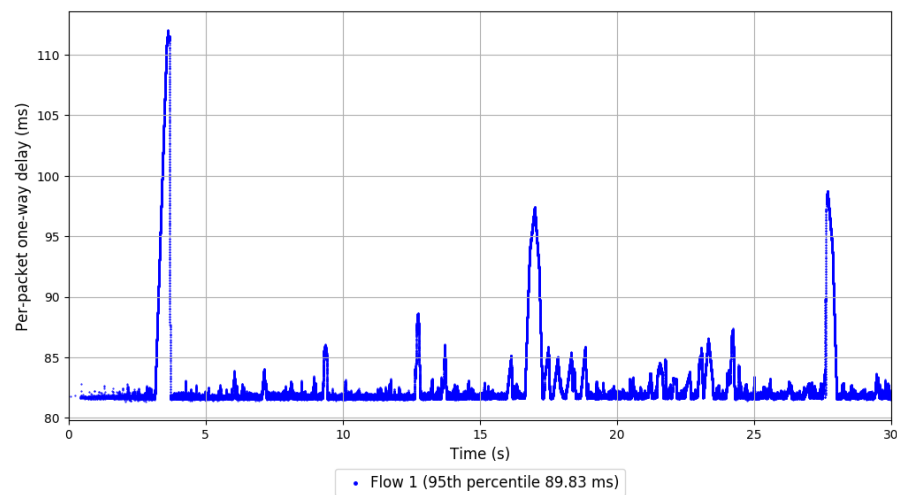
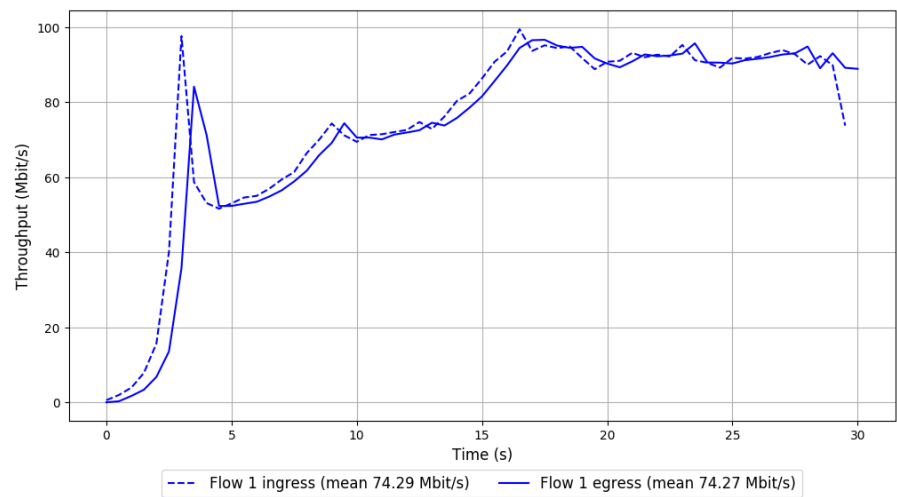
-- Flow 1:

Average throughput: 74.27 Mbit/s

95th percentile per-packet one-way delay: 89.829 ms

Loss rate: 0.03%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-05-22 00:06:30

End at: 2018-05-22 00:07:00

Local clock offset: -5.517 ms

Remote clock offset: 7.771 ms

Below is generated by plot.py at 2018-05-22 01:01:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.22 Mbit/s

95th percentile per-packet one-way delay: 101.449 ms

Loss rate: 0.03%

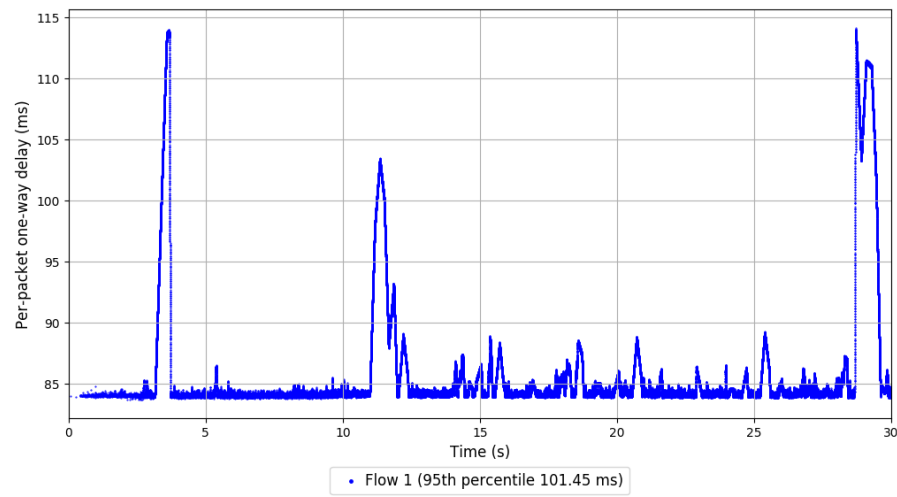
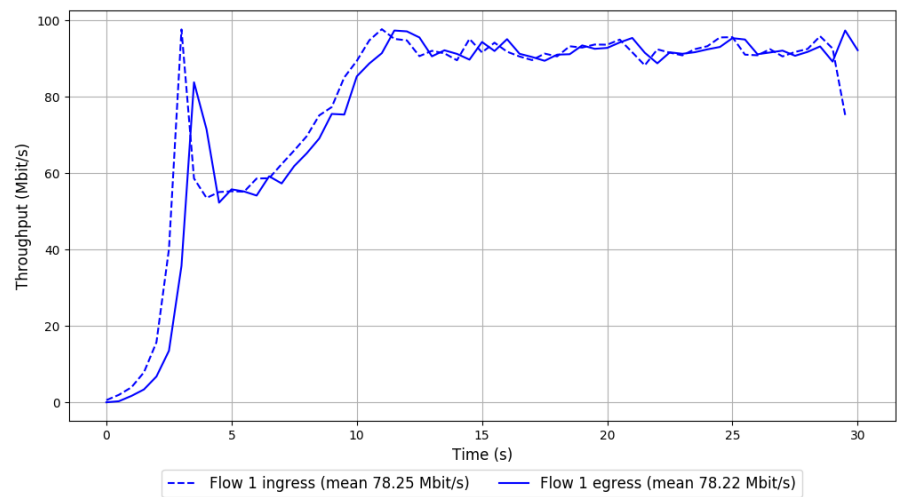
-- Flow 1:

Average throughput: 78.22 Mbit/s

95th percentile per-packet one-way delay: 101.449 ms

Loss rate: 0.03%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-05-22 00:25:00

End at: 2018-05-22 00:25:30

Local clock offset: -8.924 ms

Remote clock offset: 8.675 ms

Below is generated by plot.py at 2018-05-22 01:01:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.77 Mbit/s

95th percentile per-packet one-way delay: 95.675 ms

Loss rate: 0.04%

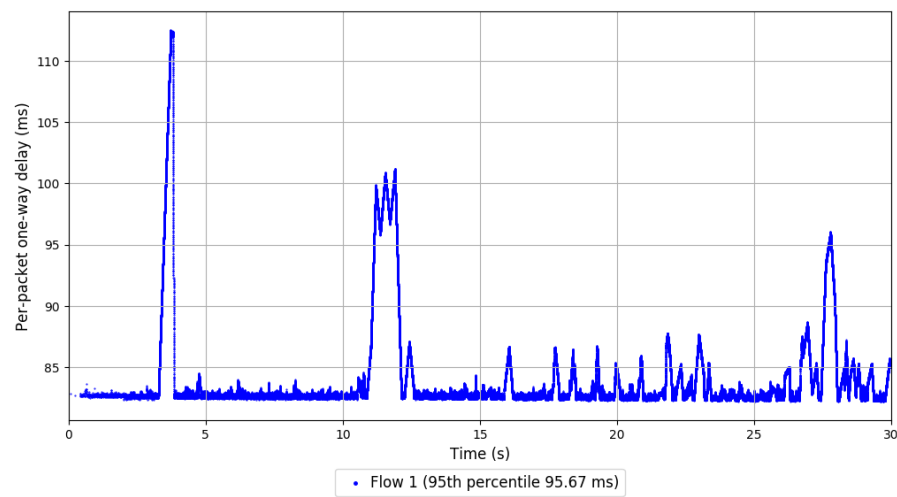
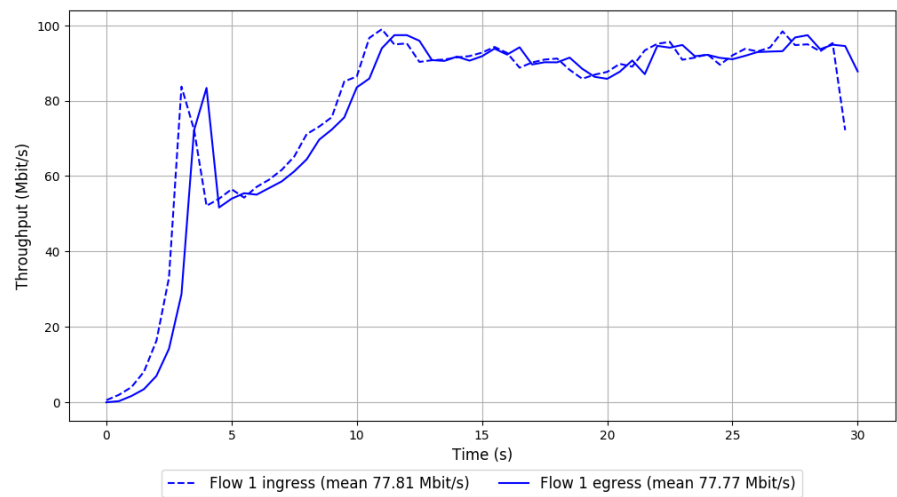
-- Flow 1:

Average throughput: 77.77 Mbit/s

95th percentile per-packet one-way delay: 95.675 ms

Loss rate: 0.04%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-05-22 00:43:28

End at: 2018-05-22 00:43:58

Local clock offset: -4.26 ms

Remote clock offset: 11.858 ms

Below is generated by plot.py at 2018-05-22 01:01:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.47 Mbit/s

95th percentile per-packet one-way delay: 86.048 ms

Loss rate: 0.02%

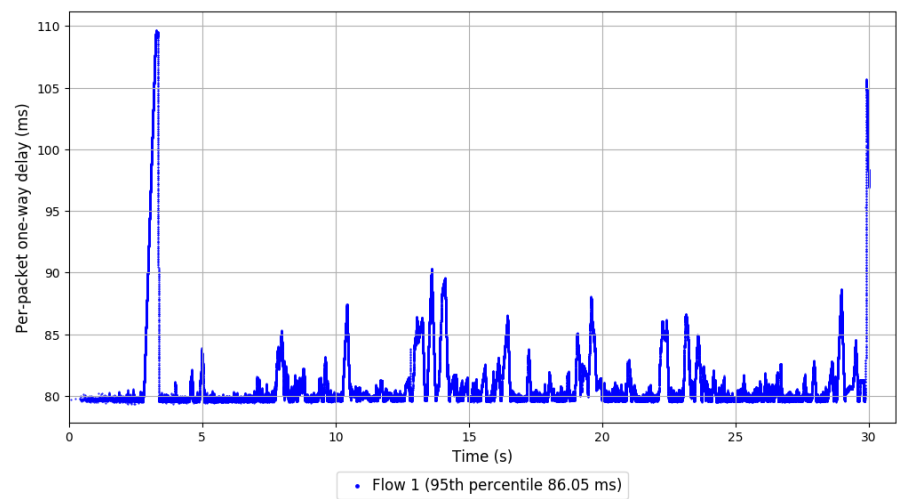
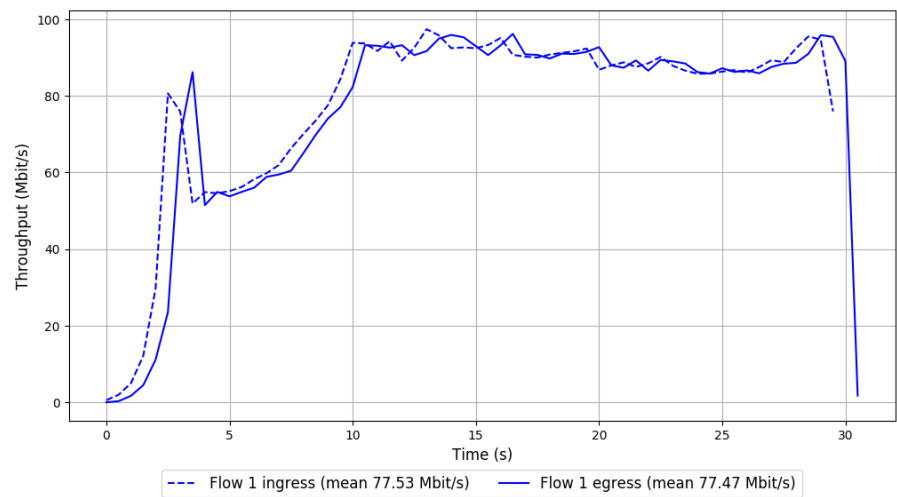
-- Flow 1:

Average throughput: 77.47 Mbit/s

95th percentile per-packet one-way delay: 86.048 ms

Loss rate: 0.02%

Run 10: Report of PCC-Vivace — Data Link

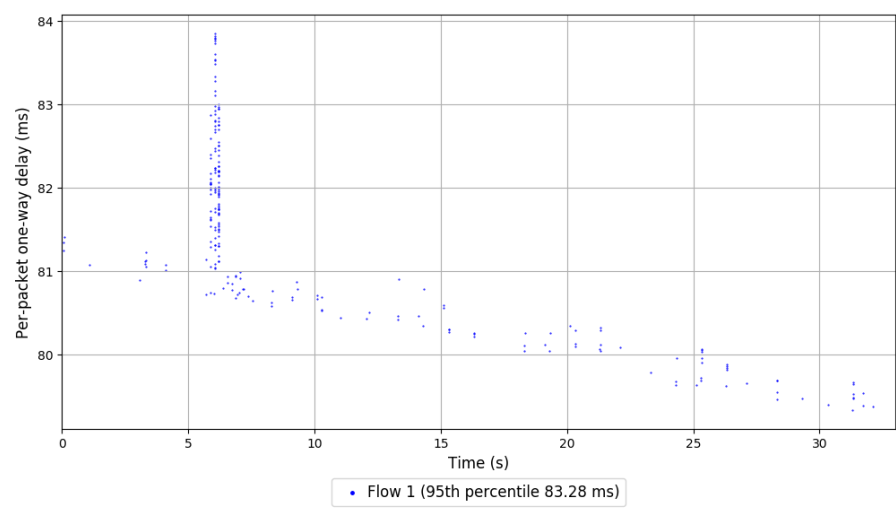
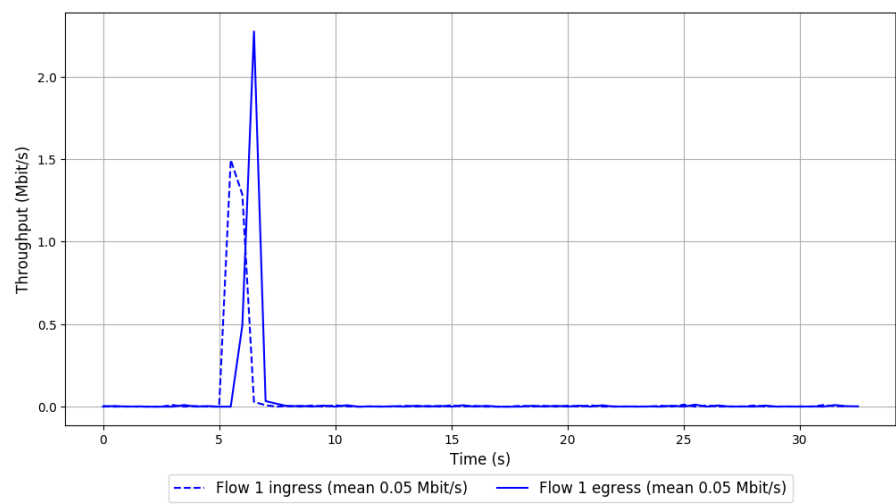


```
Run 1: Statistics of WebRTC media

Start at: 2018-05-21 21:58:11
End at: 2018-05-21 21:58:41
Local clock offset: 28.715 ms
Remote clock offset: 7.56 ms

# Below is generated by plot.py at 2018-05-22 01:01:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 83.282 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 83.282 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-05-21 22:16:41

End at: 2018-05-21 22:17:11

Local clock offset: 1.146 ms

Remote clock offset: 2.689 ms

Below is generated by plot.py at 2018-05-22 01:01:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 79.664 ms

Loss rate: 0.00%

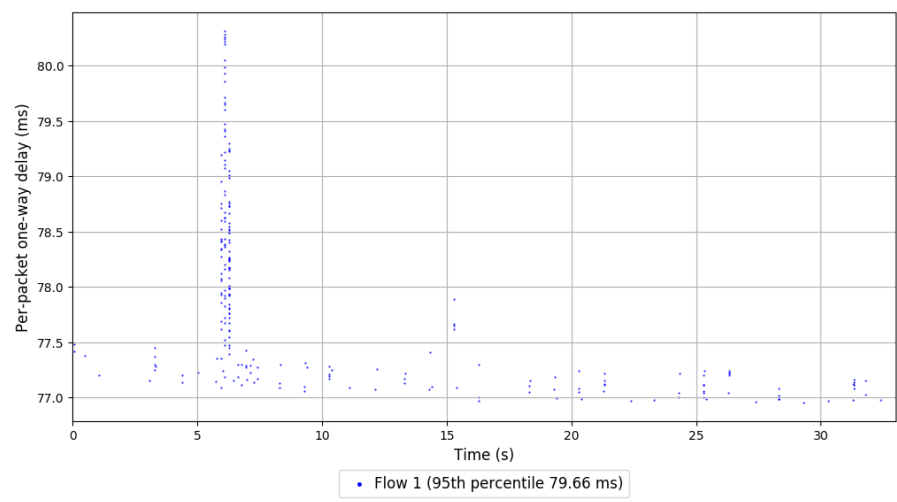
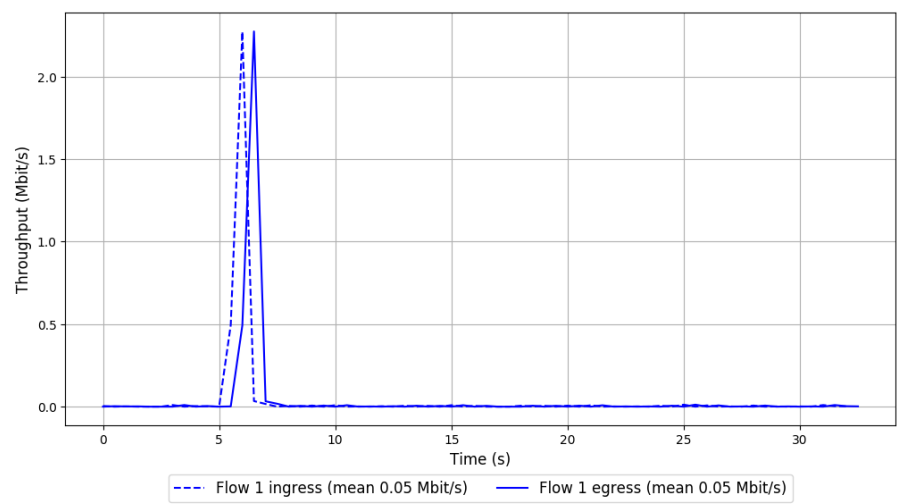
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 79.664 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-05-21 22:35:11

End at: 2018-05-21 22:35:41

Local clock offset: -2.467 ms

Remote clock offset: 2.495 ms

Below is generated by plot.py at 2018-05-22 01:01:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 81.566 ms

Loss rate: 0.00%

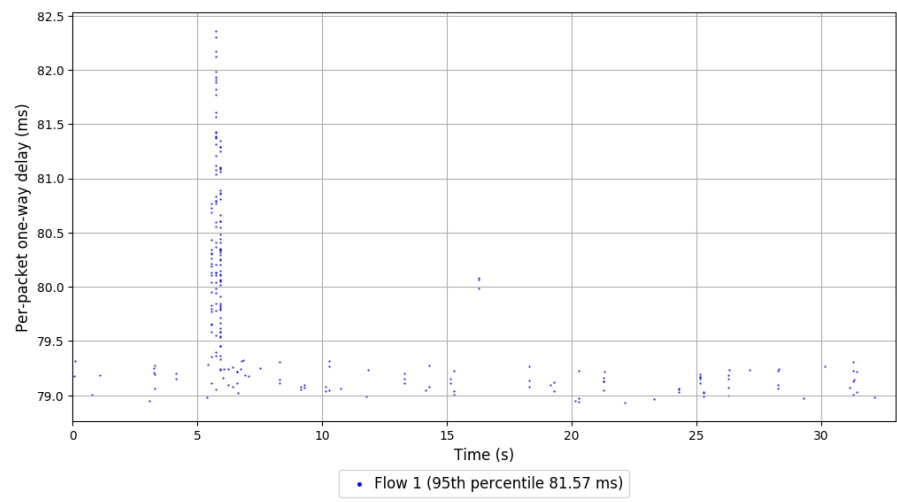
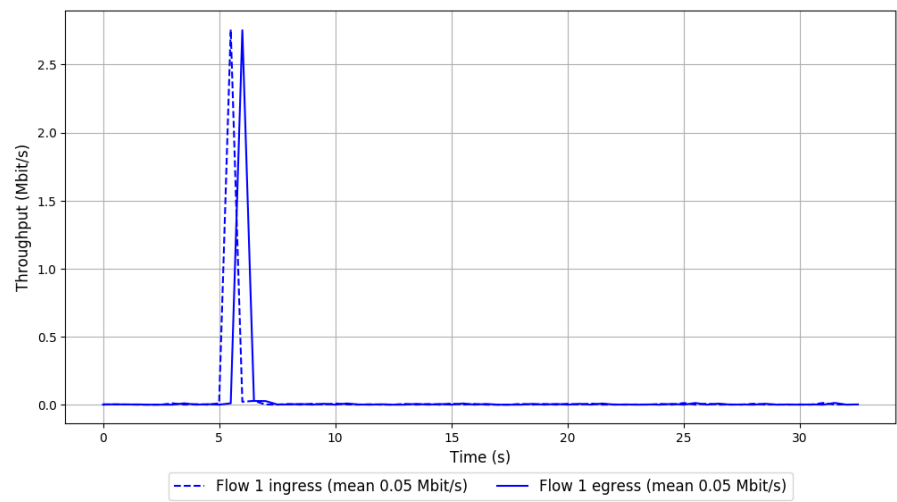
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 81.566 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-05-21 22:53:41

End at: 2018-05-21 22:54:11

Local clock offset: -3.588 ms

Remote clock offset: 8.2 ms

Below is generated by plot.py at 2018-05-22 01:01:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.198 ms

Loss rate: 0.00%

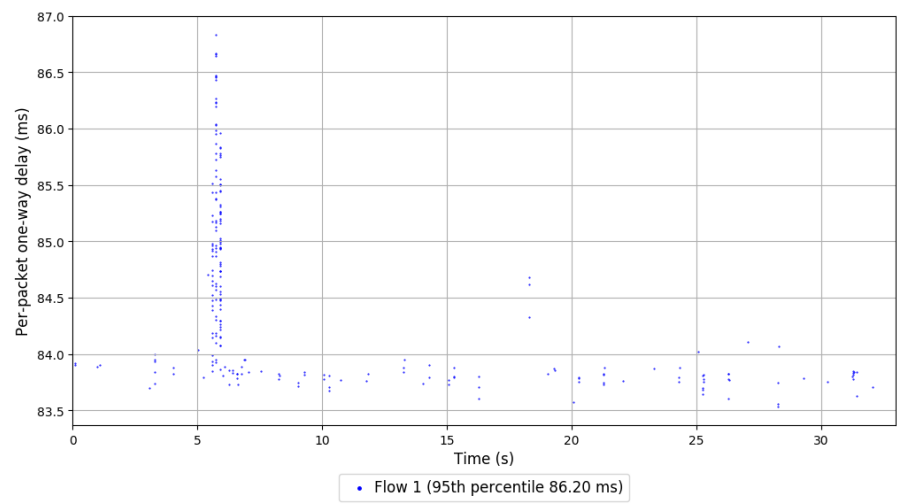
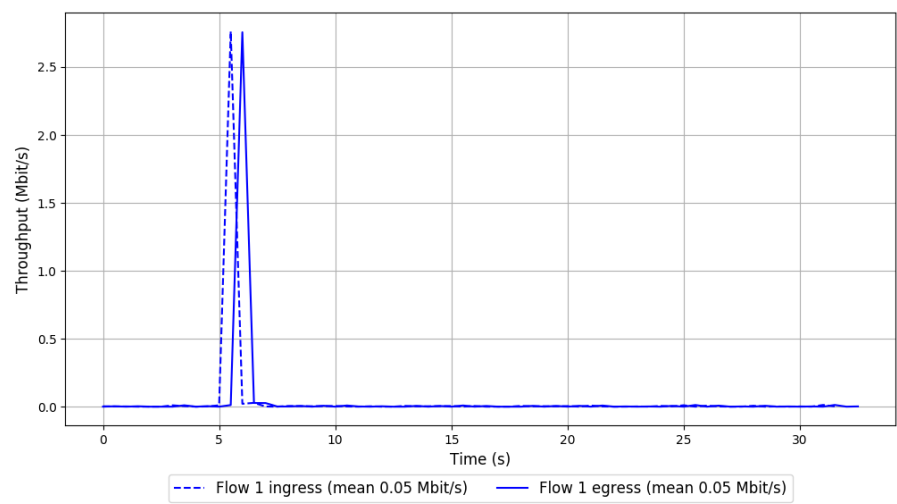
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.198 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-05-21 23:12:15

End at: 2018-05-21 23:12:45

Local clock offset: -2.518 ms

Remote clock offset: 4.935 ms

Below is generated by plot.py at 2018-05-22 01:01:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 87.040 ms

Loss rate: 0.00%

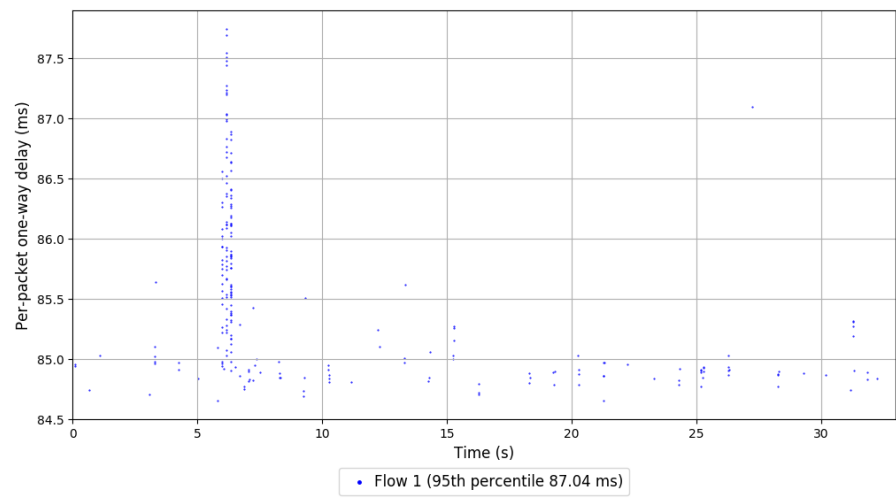
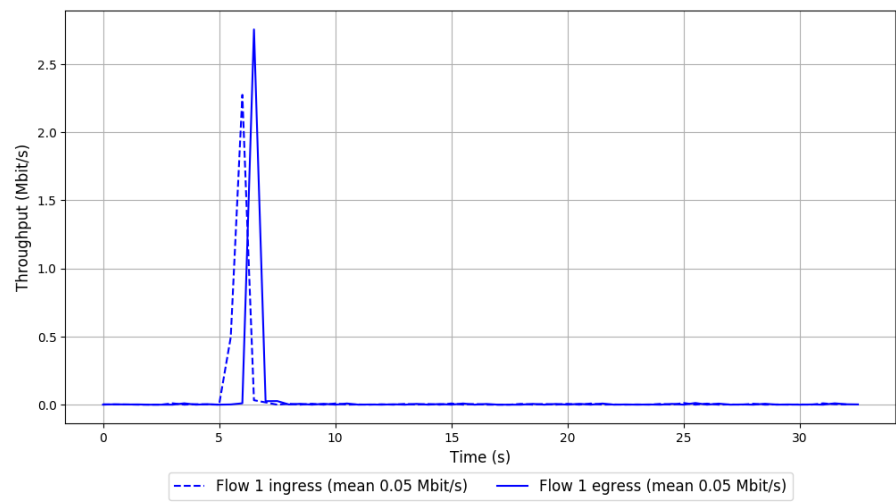
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 87.040 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-05-21 23:30:44

End at: 2018-05-21 23:31:14

Local clock offset: -2.907 ms

Remote clock offset: 3.307 ms

Below is generated by plot.py at 2018-05-22 01:01:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 81.257 ms

Loss rate: 0.00%

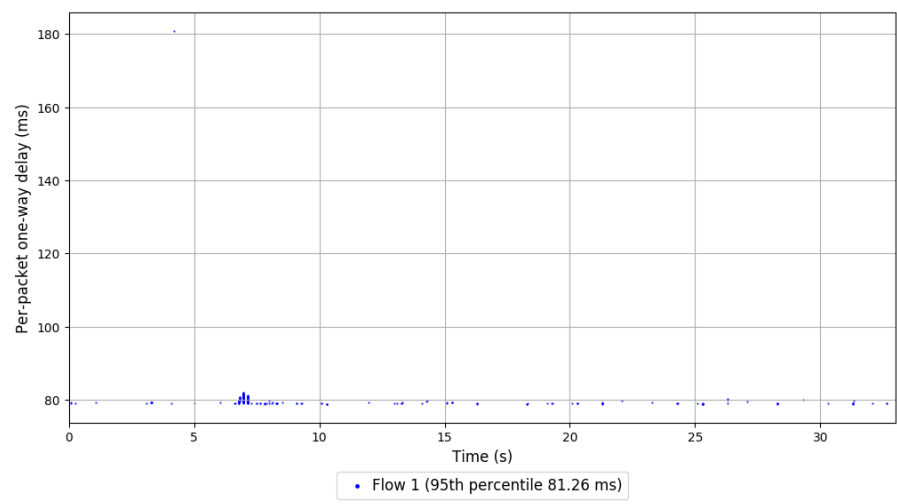
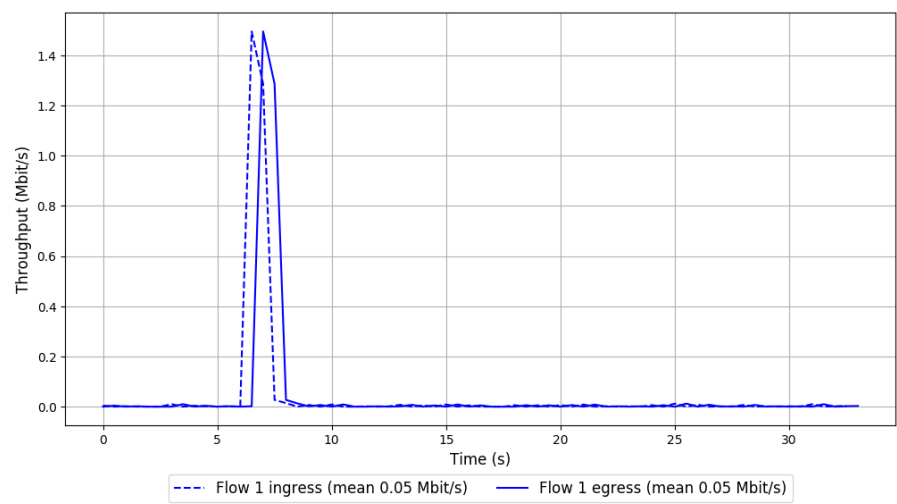
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 81.257 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-05-21 23:49:13

End at: 2018-05-21 23:49:43

Local clock offset: -3.867 ms

Remote clock offset: 8.58 ms

Below is generated by plot.py at 2018-05-22 01:01:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 91.040 ms

Loss rate: 0.00%

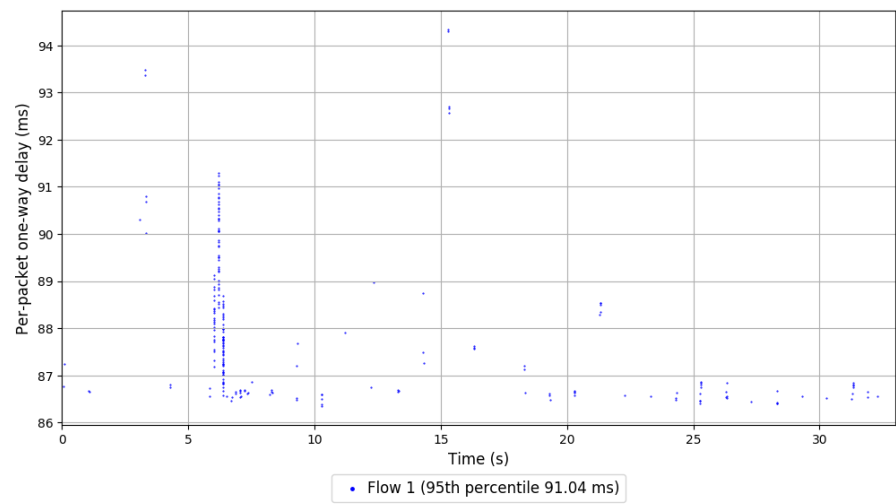
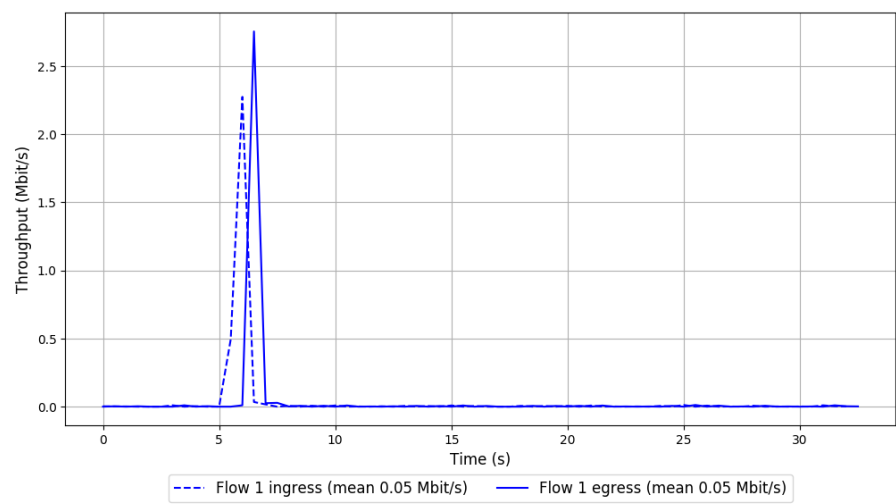
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 91.040 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-05-22 00:07:41

End at: 2018-05-22 00:08:11

Local clock offset: -5.685 ms

Remote clock offset: 8.556 ms

Below is generated by plot.py at 2018-05-22 01:01:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 92.623 ms

Loss rate: 0.00%

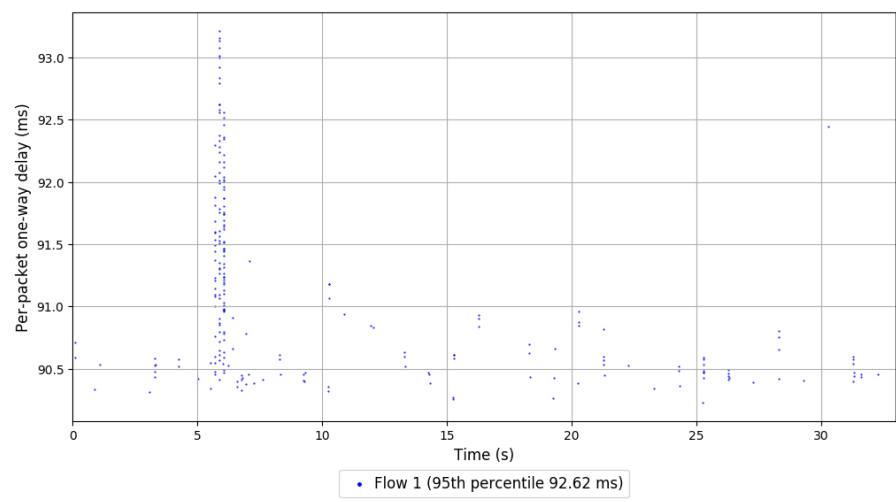
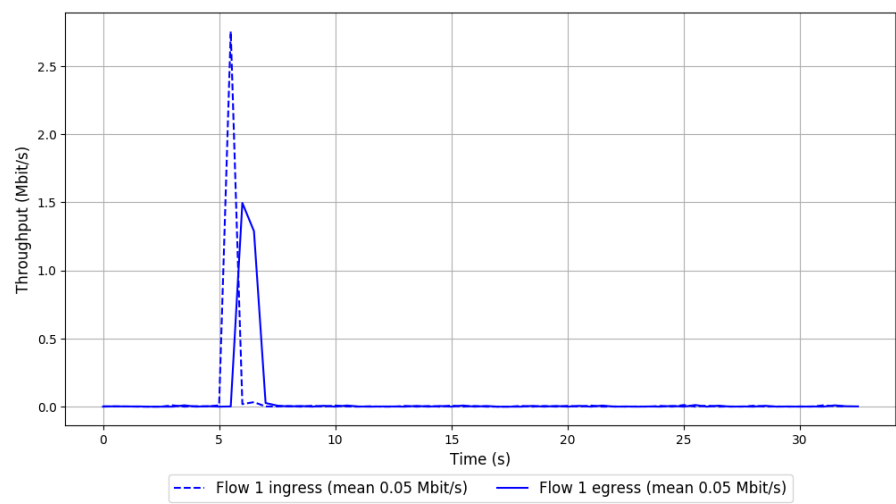
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 92.623 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

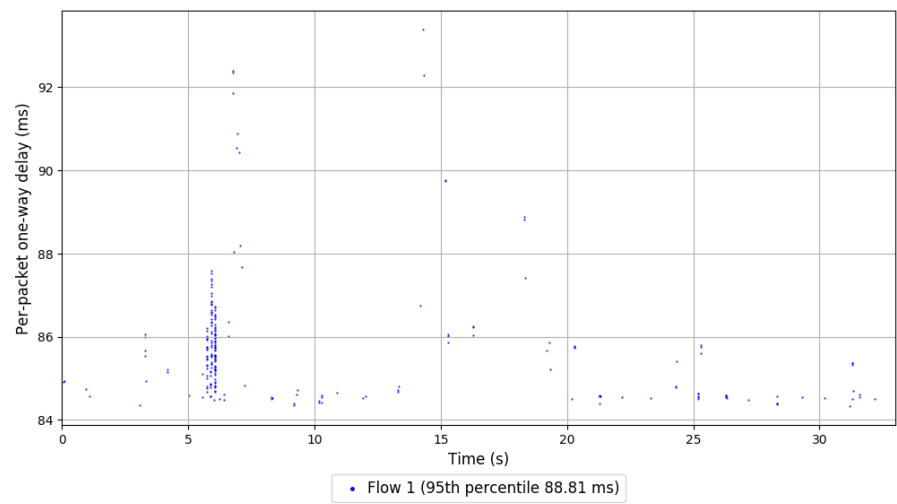
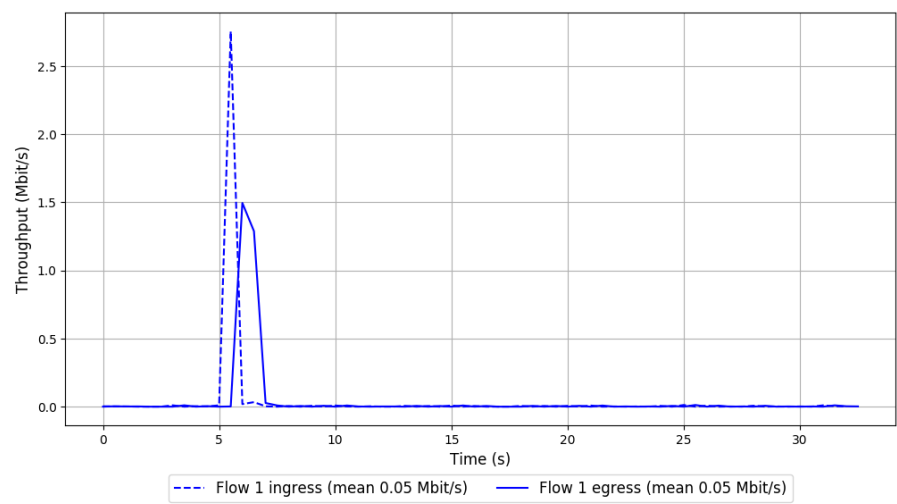


Run 9: Statistics of WebRTC media

Start at: 2018-05-22 00:26:12
End at: 2018-05-22 00:26:42
Local clock offset: -9.001 ms
Remote clock offset: 11.171 ms

Below is generated by plot.py at 2018-05-22 01:01:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 88.806 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 88.806 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-22 00:44:40
End at: 2018-05-22 00:45:10
Local clock offset: -3.307 ms
Remote clock offset: 15.856 ms

Below is generated by plot.py at 2018-05-22 01:01:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.897 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.897 ms
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

