

Pantheon Report

Generated at 2018-06-18 12:14:00 (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.

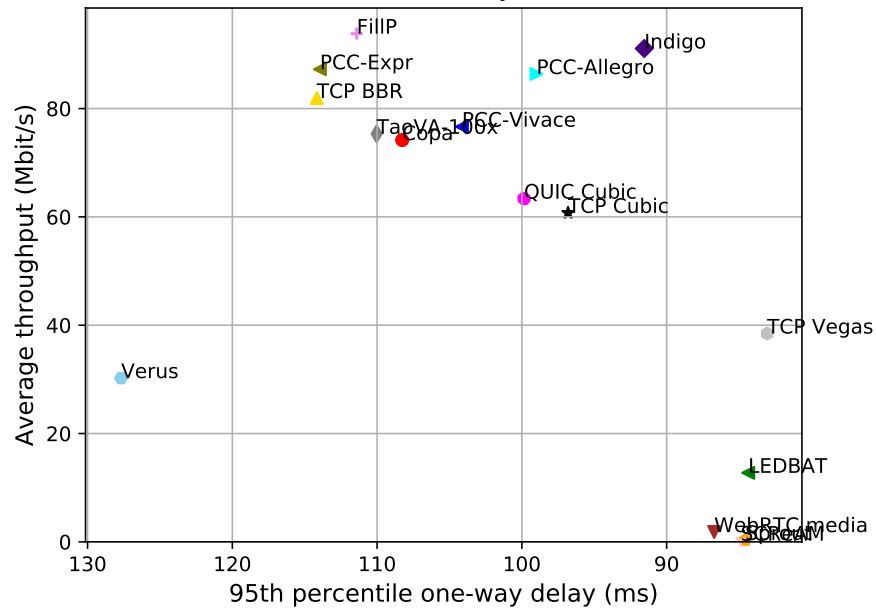
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

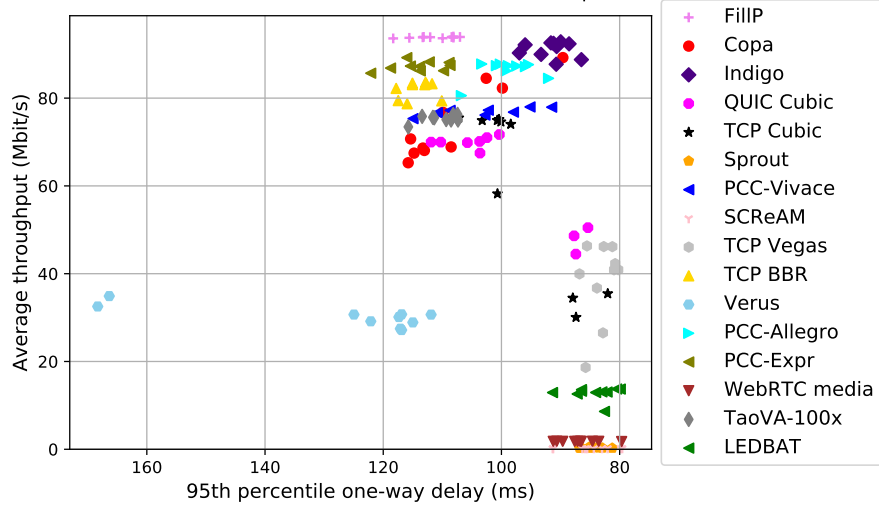
Git summary:

```
branch: master @ 9141c5f9450c85ea5ea2ea755a8e946998d3abf3
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-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



test from AWS Brazil 2 to Colombia, 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	81.94	114.17	4.04
Copa	10	74.18	108.27	4.15
TCP Cubic	10	60.73	96.81	0.37
FillP	10	93.83	111.41	7.62
Indigo	10	91.09	91.55	0.83
LEDBAT	10	12.75	84.37	0.01
PCC-Allegro	10	86.37	98.99	1.43
PCC-Expr	10	87.25	113.95	2.32
QUIC Cubic	10	63.37	99.85	0.46
SCReAM	10	0.22	84.89	0.01
Sprout	10	0.35	84.57	0.00
TaoVA-100x	10	75.33	110.03	0.76
TCP Vegas	10	38.46	83.06	0.37
Verus	10	30.24	127.68	31.48
PCC-Vivace	10	76.65	104.14	0.10
WebRTC media	10	1.81	86.72	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-06-18 09:00:05

End at: 2018-06-18 09:00:35

Local clock offset: -2.106 ms

Remote clock offset: 5.056 ms

Below is generated by plot.py at 2018-06-18 11:56:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.44 Mbit/s

95th percentile per-packet one-way delay: 117.458 ms

Loss rate: 3.53%

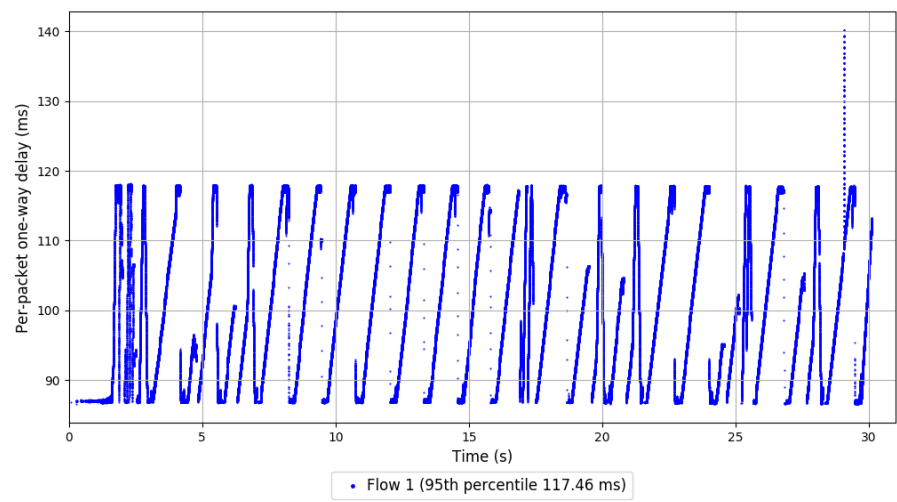
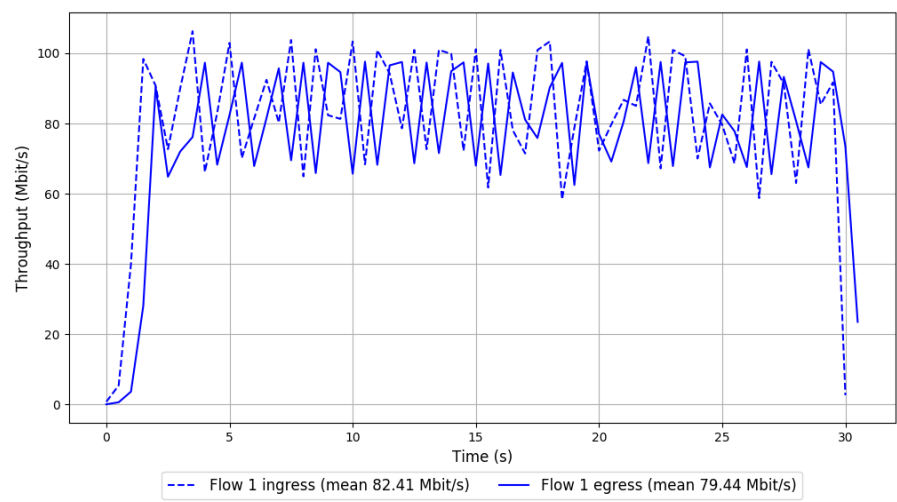
-- Flow 1:

Average throughput: 79.44 Mbit/s

95th percentile per-packet one-way delay: 117.458 ms

Loss rate: 3.53%

Run 1: Report of TCP BBR — Data Link

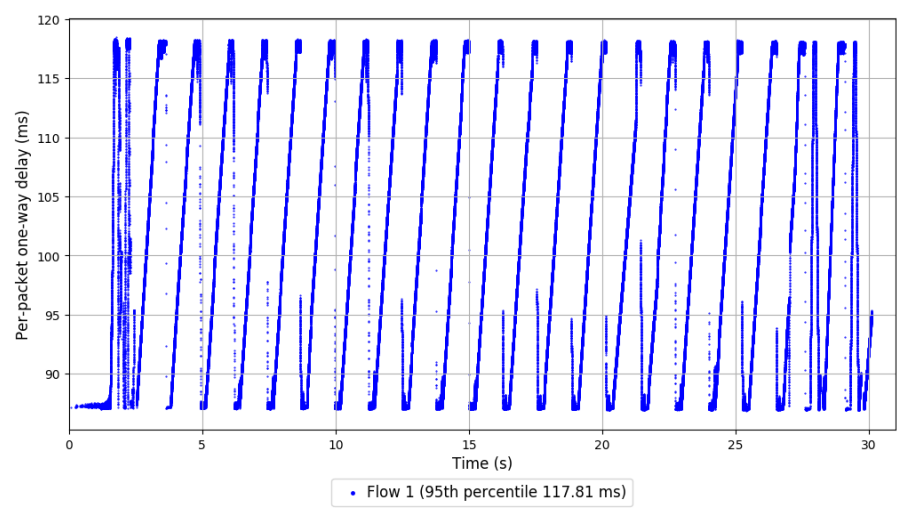
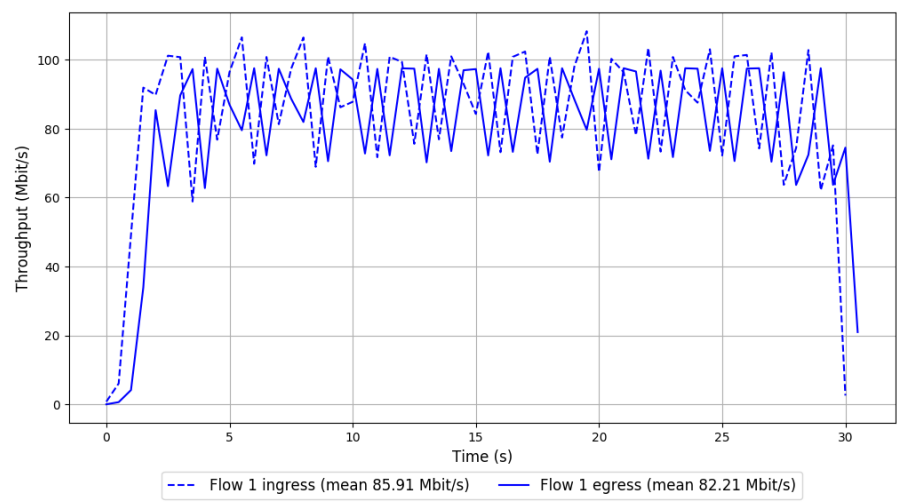


Run 2: Statistics of TCP BBR

Start at: 2018-06-18 09:18:42
End at: 2018-06-18 09:19:13
Local clock offset: -6.729 ms
Remote clock offset: 17.015 ms

Below is generated by plot.py at 2018-06-18 11:56:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 82.21 Mbit/s
95th percentile per-packet one-way delay: 117.813 ms
Loss rate: 4.28%
-- Flow 1:
Average throughput: 82.21 Mbit/s
95th percentile per-packet one-way delay: 117.813 ms
Loss rate: 4.28%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-06-18 09:37:23

End at: 2018-06-18 09:37:53

Local clock offset: -8.02 ms

Remote clock offset: 12.198 ms

Below is generated by plot.py at 2018-06-18 11:56:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.26 Mbit/s

95th percentile per-packet one-way delay: 112.702 ms

Loss rate: 4.40%

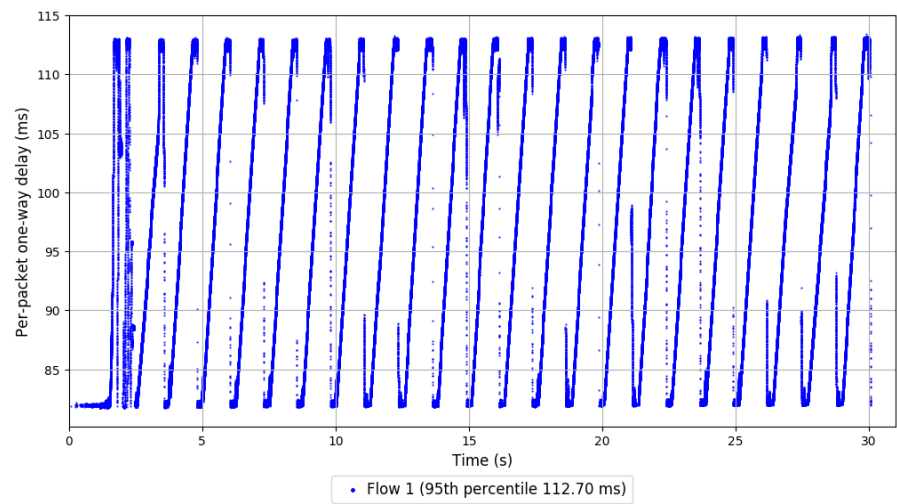
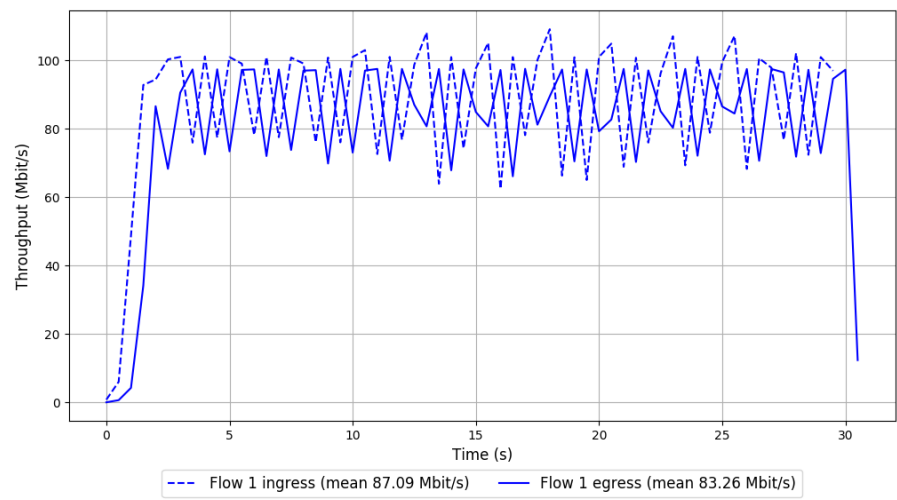
-- Flow 1:

Average throughput: 83.26 Mbit/s

95th percentile per-packet one-way delay: 112.702 ms

Loss rate: 4.40%

Run 3: Report of TCP BBR — Data Link

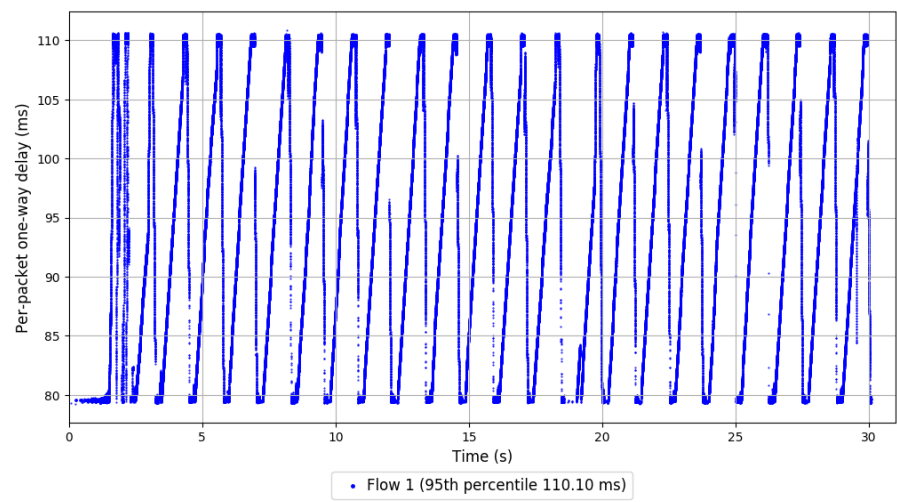
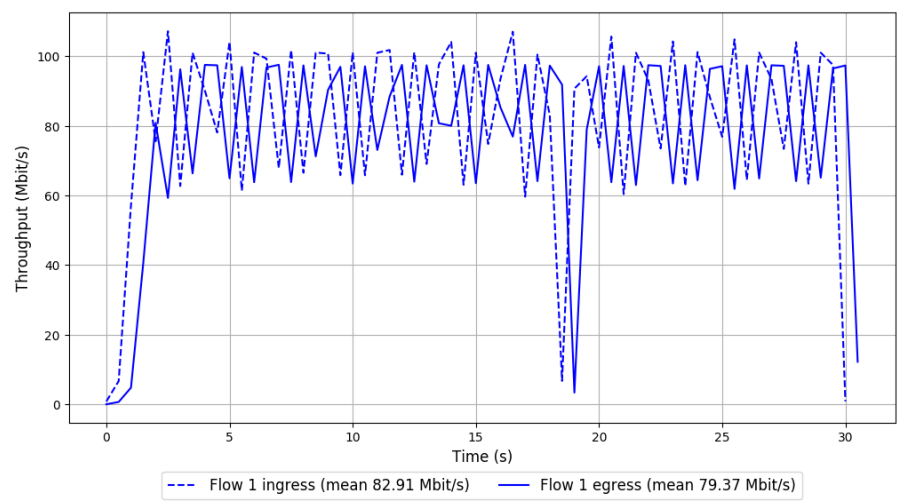


Run 4: Statistics of TCP BBR

Start at: 2018-06-18 09:56:04
End at: 2018-06-18 09:56:34
Local clock offset: -7.592 ms
Remote clock offset: 10.214 ms

Below is generated by plot.py at 2018-06-18 11:56:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 79.37 Mbit/s
95th percentile per-packet one-way delay: 110.100 ms
Loss rate: 4.26%
-- Flow 1:
Average throughput: 79.37 Mbit/s
95th percentile per-packet one-way delay: 110.100 ms
Loss rate: 4.26%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-06-18 10:14:44

End at: 2018-06-18 10:15:14

Local clock offset: -3.863 ms

Remote clock offset: 7.65 ms

Below is generated by plot.py at 2018-06-18 11:56:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.72 Mbit/s

95th percentile per-packet one-way delay: 115.947 ms

Loss rate: 3.55%

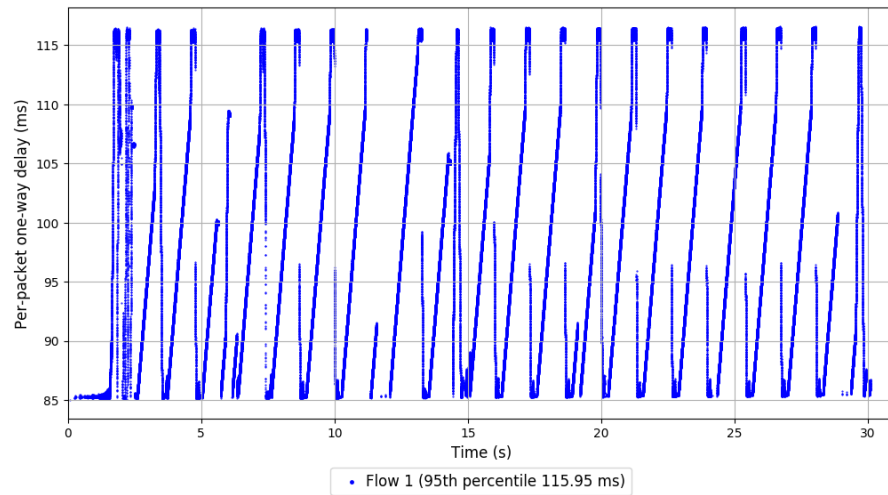
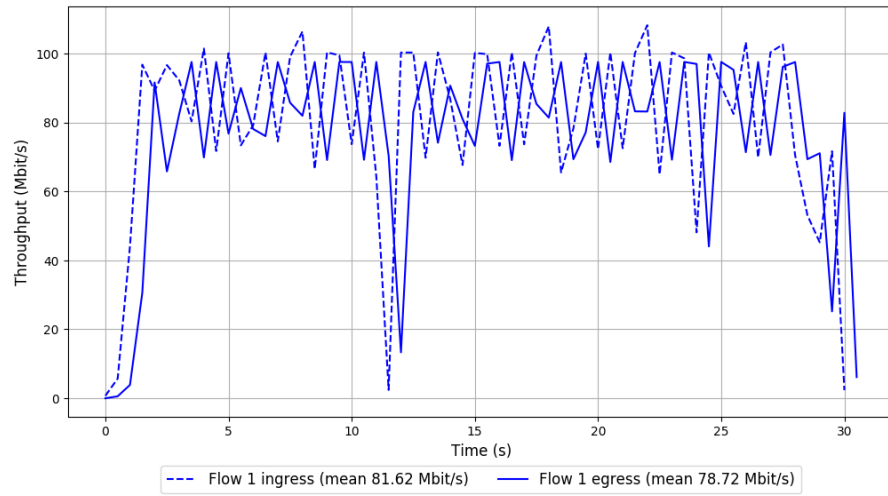
-- Flow 1:

Average throughput: 78.72 Mbit/s

95th percentile per-packet one-way delay: 115.947 ms

Loss rate: 3.55%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-06-18 10:33:21

End at: 2018-06-18 10:33:51

Local clock offset: -1.899 ms

Remote clock offset: 8.535 ms

Below is generated by plot.py at 2018-06-18 11:56:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.40 Mbit/s

95th percentile per-packet one-way delay: 115.057 ms

Loss rate: 3.95%

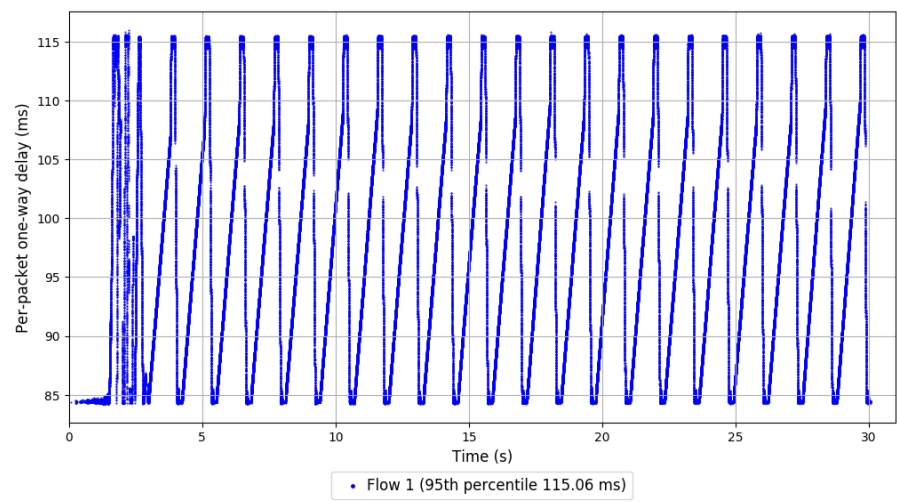
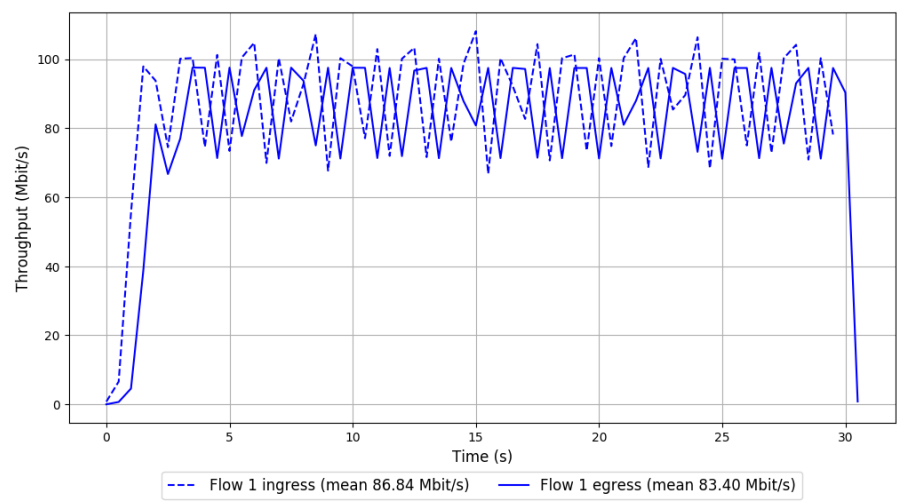
-- Flow 1:

Average throughput: 83.40 Mbit/s

95th percentile per-packet one-way delay: 115.057 ms

Loss rate: 3.95%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-06-18 10:52:04

End at: 2018-06-18 10:52:34

Local clock offset: -2.483 ms

Remote clock offset: 5.137 ms

Below is generated by plot.py at 2018-06-18 11:56:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.28 Mbit/s

95th percentile per-packet one-way delay: 111.742 ms

Loss rate: 3.88%

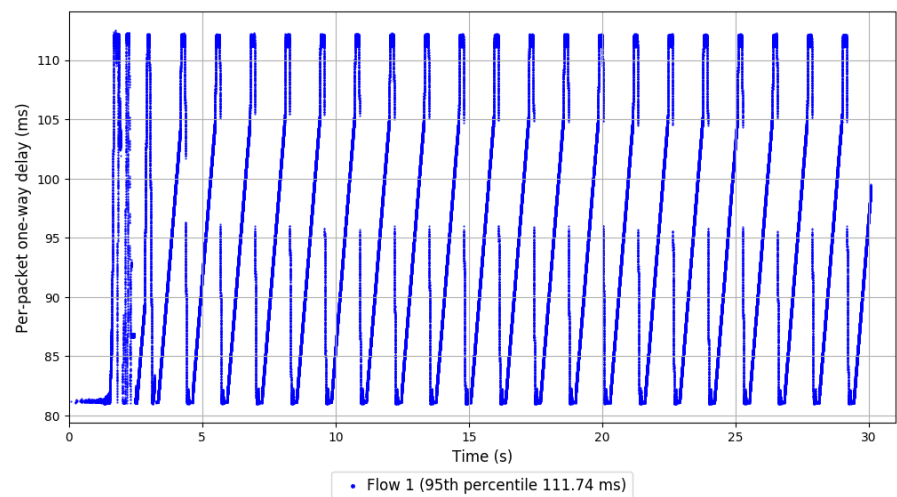
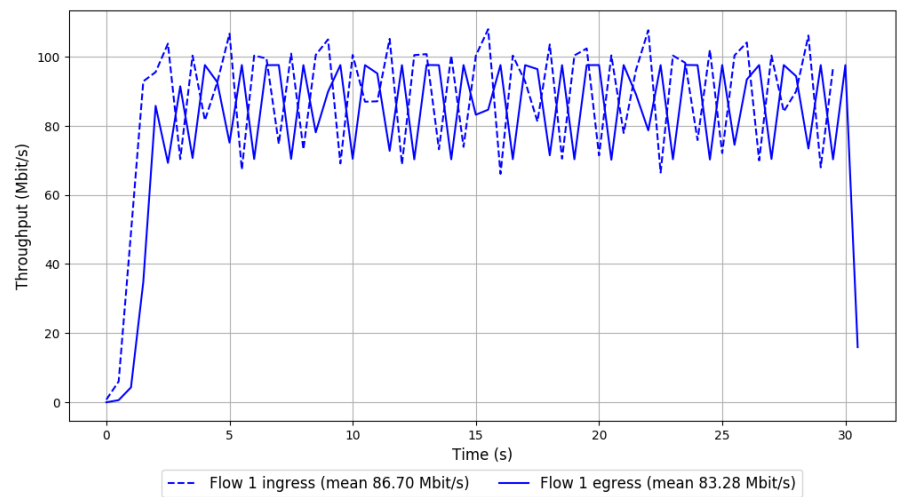
-- Flow 1:

Average throughput: 83.28 Mbit/s

95th percentile per-packet one-way delay: 111.742 ms

Loss rate: 3.88%

Run 7: Report of TCP BBR — Data Link

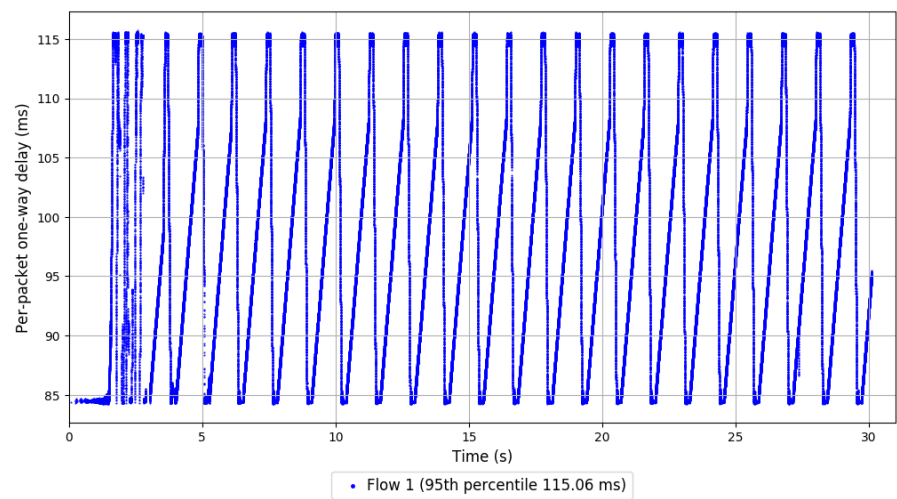
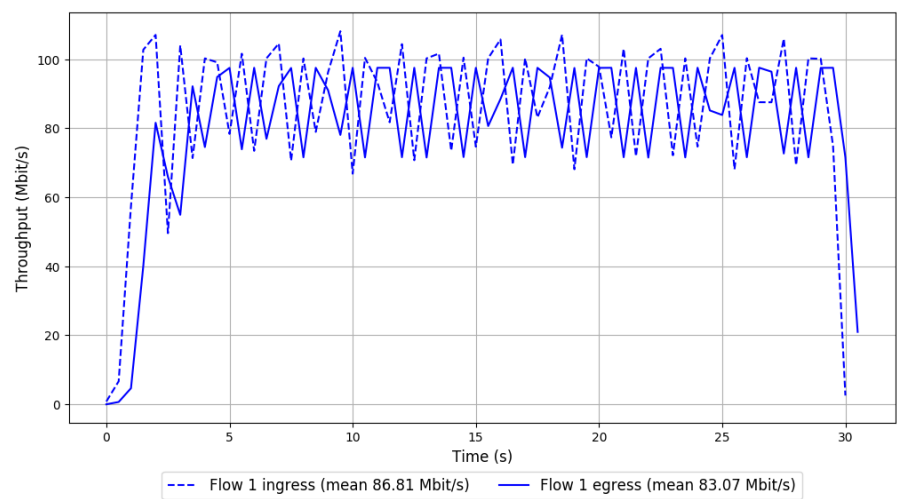


Run 8: Statistics of TCP BBR

Start at: 2018-06-18 11:10:45
End at: 2018-06-18 11:11:15
Local clock offset: -2.708 ms
Remote clock offset: 10.485 ms

Below is generated by plot.py at 2018-06-18 11:56:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 83.07 Mbit/s
95th percentile per-packet one-way delay: 115.056 ms
Loss rate: 4.27%
-- Flow 1:
Average throughput: 83.07 Mbit/s
95th percentile per-packet one-way delay: 115.056 ms
Loss rate: 4.27%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-06-18 11:29:28

End at: 2018-06-18 11:29:58

Local clock offset: -2.937 ms

Remote clock offset: 4.807 ms

Below is generated by plot.py at 2018-06-18 11:57:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.06 Mbit/s

95th percentile per-packet one-way delay: 112.955 ms

Loss rate: 4.36%

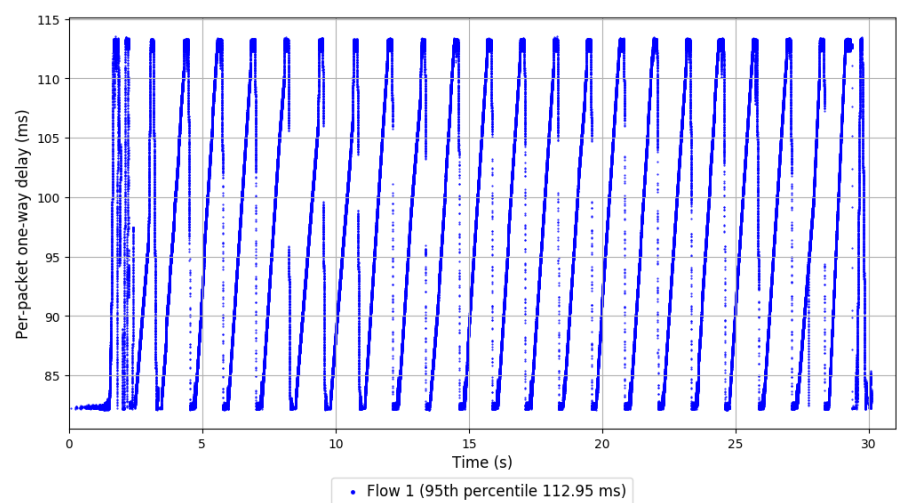
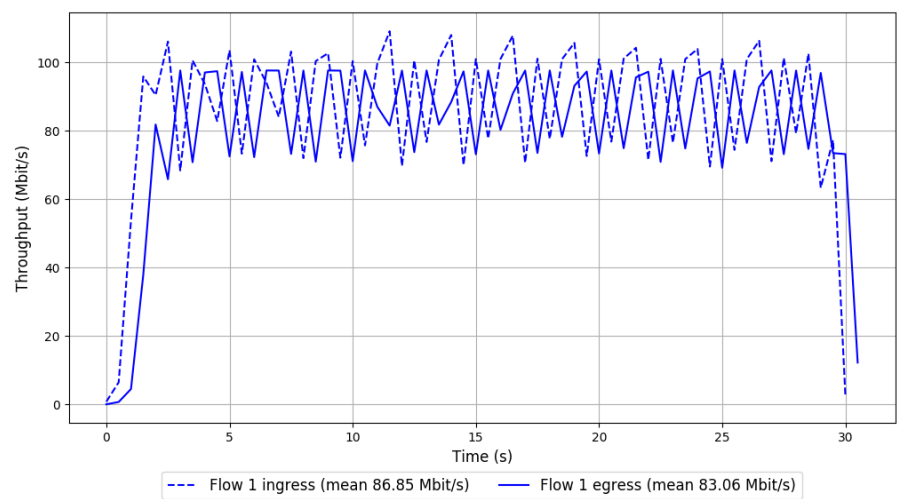
-- Flow 1:

Average throughput: 83.06 Mbit/s

95th percentile per-packet one-way delay: 112.955 ms

Loss rate: 4.36%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-06-18 11:48:12

End at: 2018-06-18 11:48:42

Local clock offset: -6.365 ms

Remote clock offset: 3.859 ms

Below is generated by plot.py at 2018-06-18 11:57:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.60 Mbit/s

95th percentile per-packet one-way delay: 112.844 ms

Loss rate: 3.88%

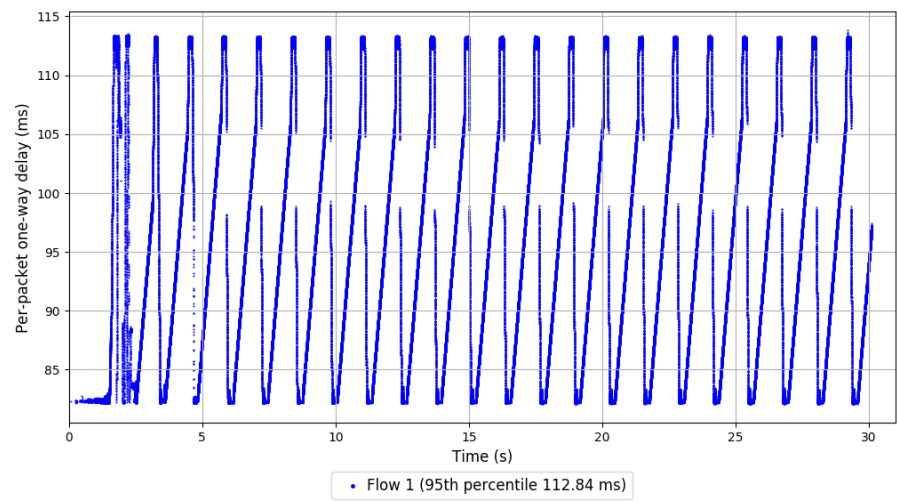
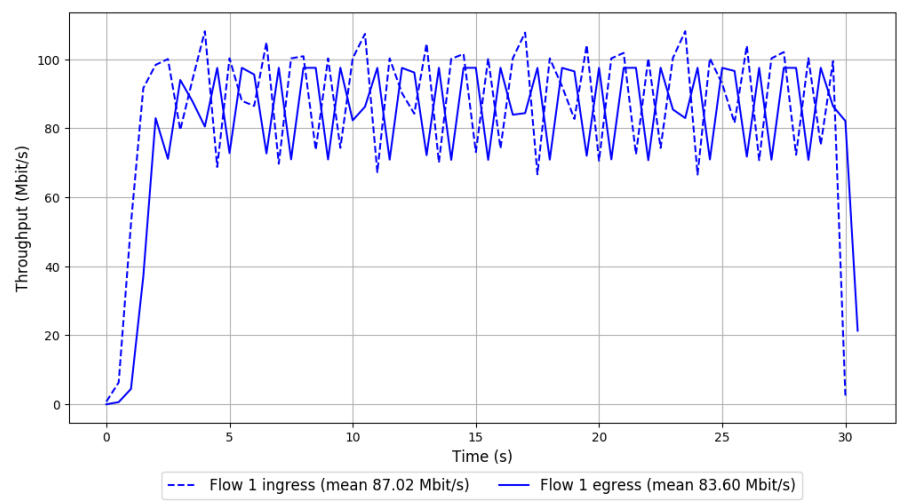
-- Flow 1:

Average throughput: 83.60 Mbit/s

95th percentile per-packet one-way delay: 112.844 ms

Loss rate: 3.88%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-06-18 08:56:33

End at: 2018-06-18 08:57:03

Local clock offset: -1.862 ms

Remote clock offset: 6.131 ms

Below is generated by plot.py at 2018-06-18 11:58:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.76 Mbit/s

95th percentile per-packet one-way delay: 109.914 ms

Loss rate: 4.17%

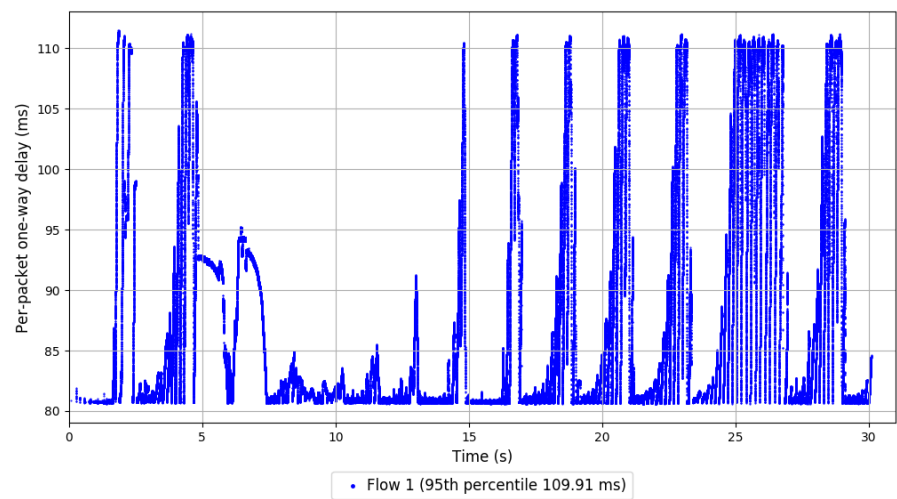
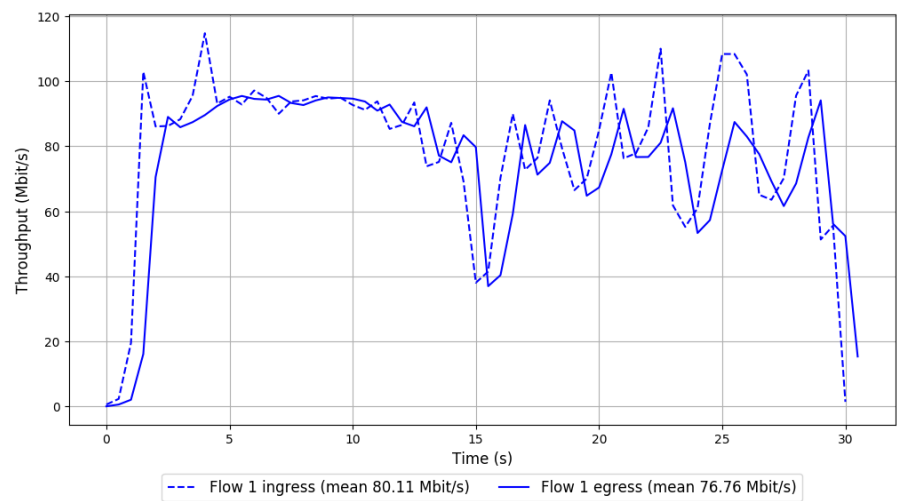
-- Flow 1:

Average throughput: 76.76 Mbit/s

95th percentile per-packet one-way delay: 109.914 ms

Loss rate: 4.17%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-06-18 09:15:12

End at: 2018-06-18 09:15:42

Local clock offset: -6.184 ms

Remote clock offset: 15.31 ms

Below is generated by plot.py at 2018-06-18 11:58:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.27 Mbit/s

95th percentile per-packet one-way delay: 115.776 ms

Loss rate: 8.69%

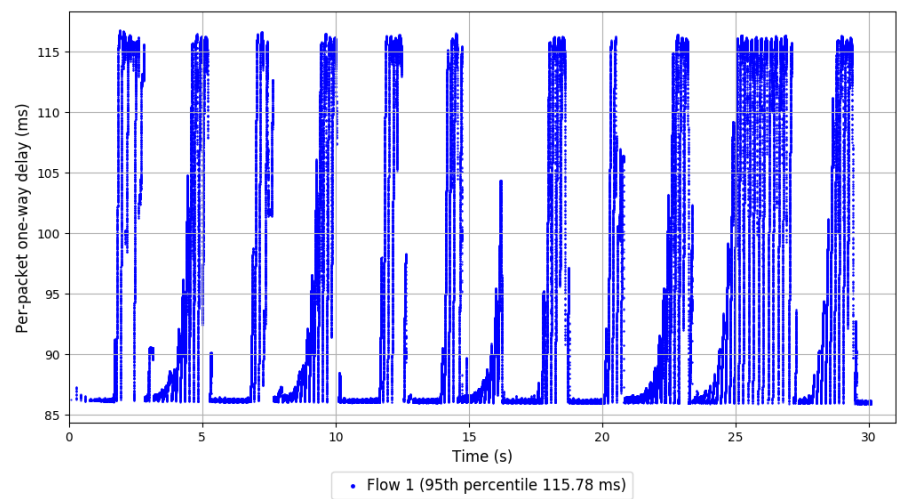
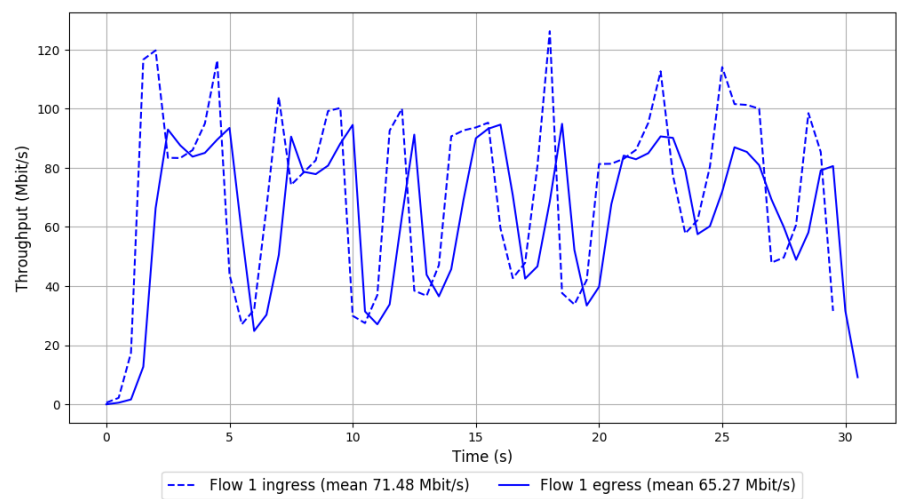
-- Flow 1:

Average throughput: 65.27 Mbit/s

95th percentile per-packet one-way delay: 115.776 ms

Loss rate: 8.69%

Run 2: Report of Copa — Data Link

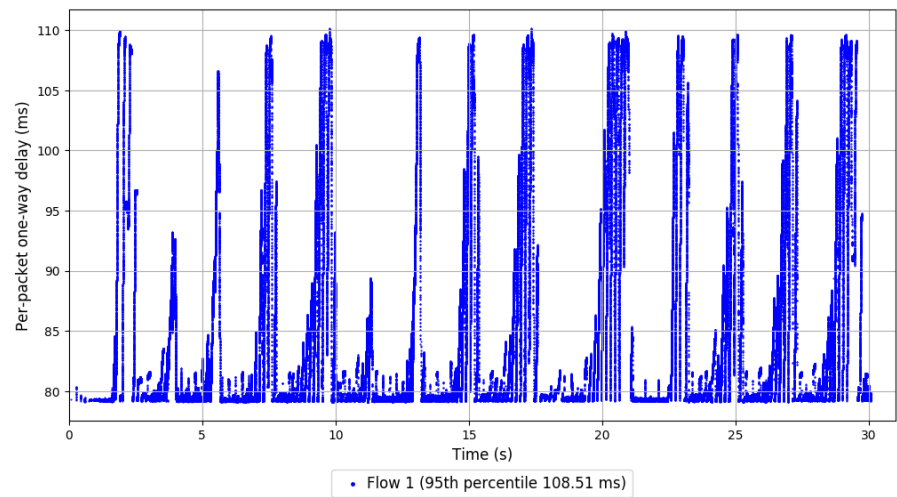
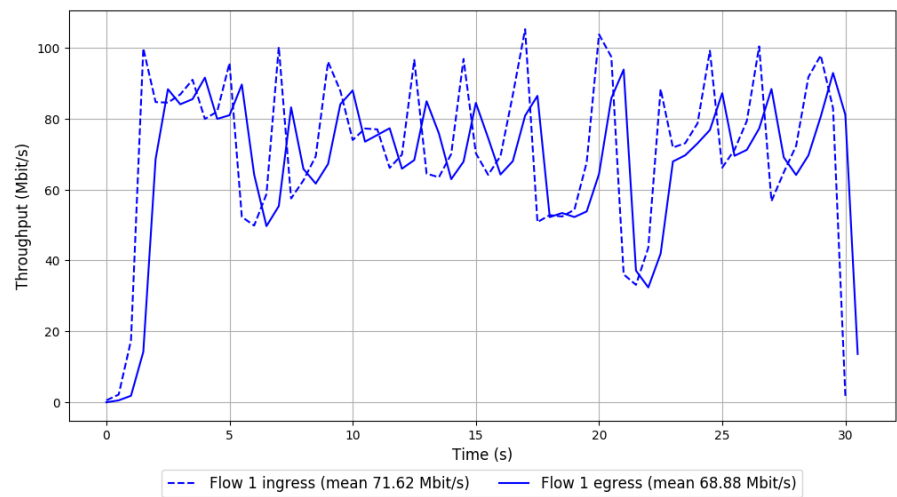


Run 3: Statistics of Copa

Start at: 2018-06-18 09:33:52
End at: 2018-06-18 09:34:22
Local clock offset: -8.448 ms
Remote clock offset: 12.993 ms

Below is generated by plot.py at 2018-06-18 11:58:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 68.88 Mbit/s
95th percentile per-packet one-way delay: 108.514 ms
Loss rate: 3.83%
-- Flow 1:
Average throughput: 68.88 Mbit/s
95th percentile per-packet one-way delay: 108.514 ms
Loss rate: 3.83%

Run 3: Report of Copa — Data Link

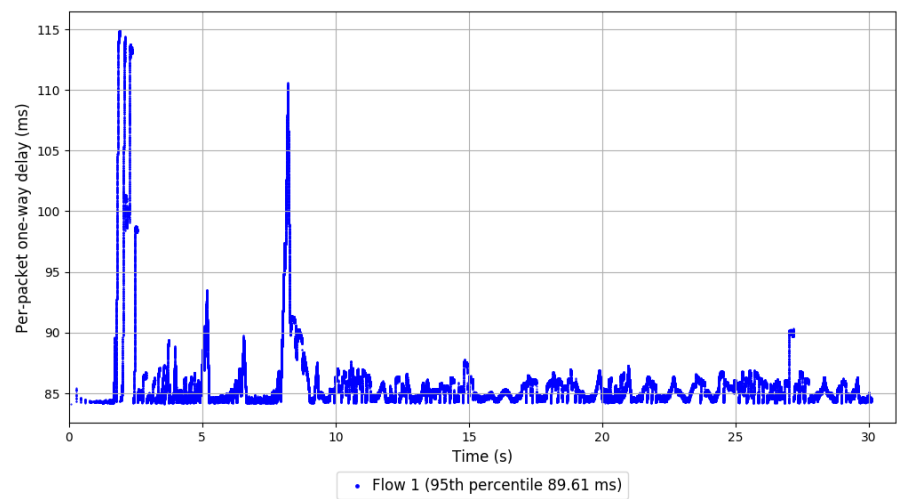
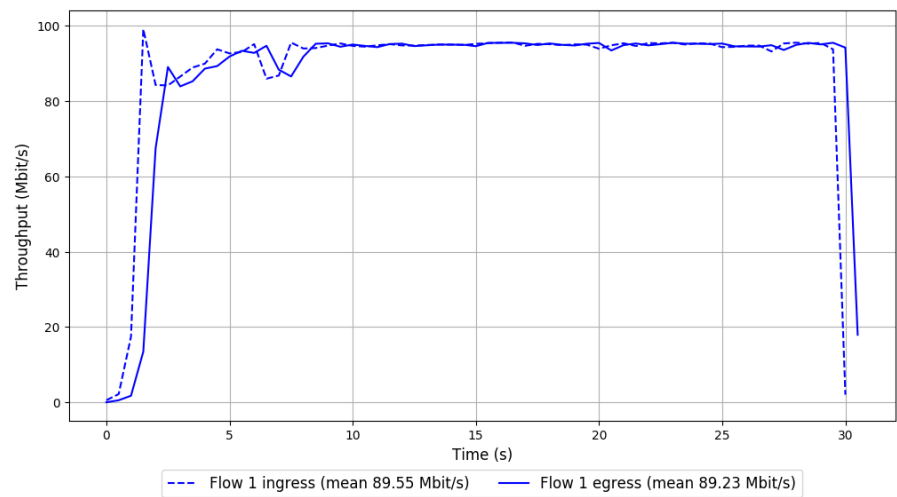


Run 4: Statistics of Copa

Start at: 2018-06-18 09:52:31
End at: 2018-06-18 09:53:01
Local clock offset: -7.54 ms
Remote clock offset: 14.254 ms

Below is generated by plot.py at 2018-06-18 11:58:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.23 Mbit/s
95th percentile per-packet one-way delay: 89.608 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 89.23 Mbit/s
95th percentile per-packet one-way delay: 89.608 ms
Loss rate: 0.35%

Run 4: Report of Copa — Data Link

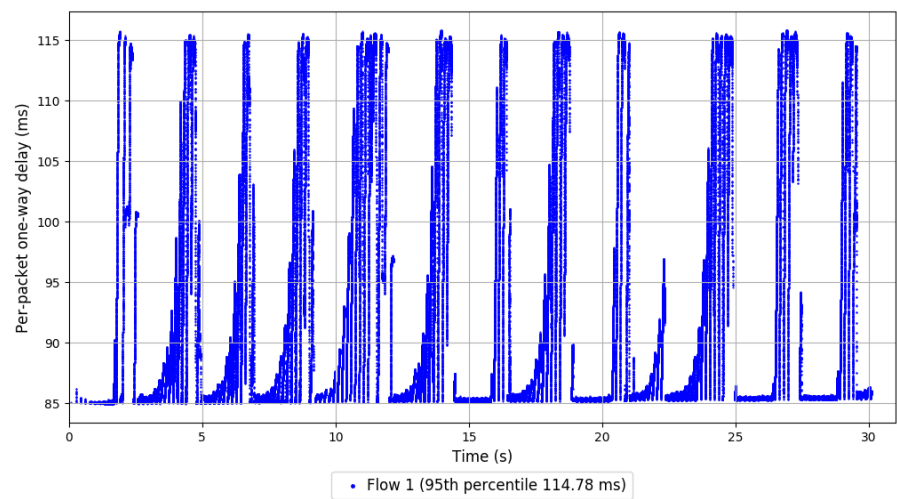
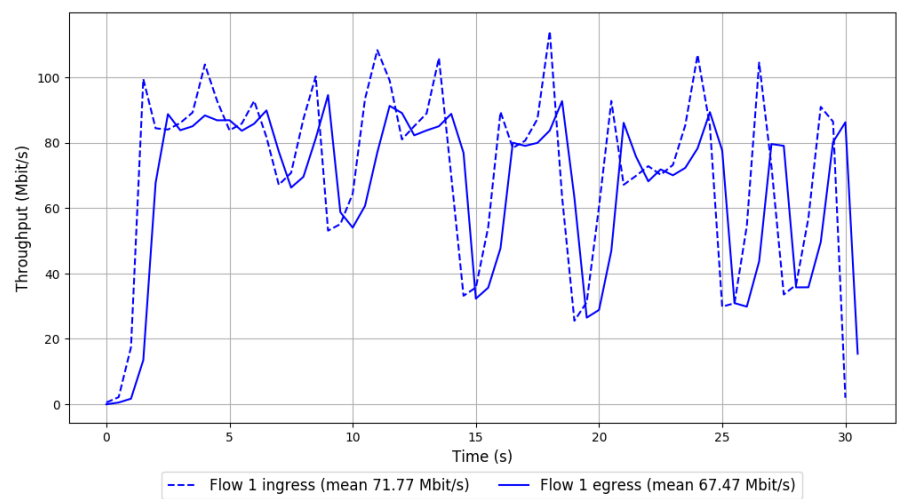


Run 5: Statistics of Copa

Start at: 2018-06-18 10:11:13
End at: 2018-06-18 10:11:43
Local clock offset: -4.666 ms
Remote clock offset: 14.238 ms

Below is generated by plot.py at 2018-06-18 11:58:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 67.47 Mbit/s
95th percentile per-packet one-way delay: 114.782 ms
Loss rate: 5.99%
-- Flow 1:
Average throughput: 67.47 Mbit/s
95th percentile per-packet one-way delay: 114.782 ms
Loss rate: 5.99%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-06-18 10:29:50

End at: 2018-06-18 10:30:20

Local clock offset: -2.039 ms

Remote clock offset: 8.844 ms

Below is generated by plot.py at 2018-06-18 11:58:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.62 Mbit/s

95th percentile per-packet one-way delay: 113.279 ms

Loss rate: 5.74%

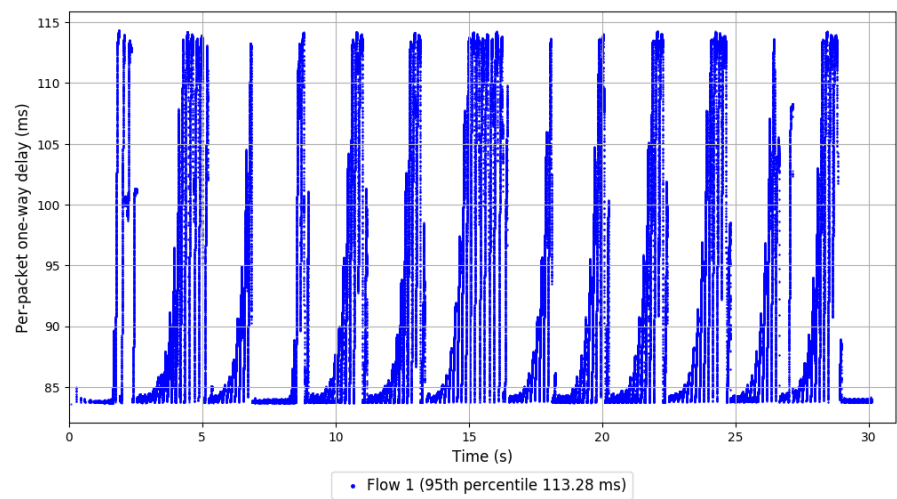
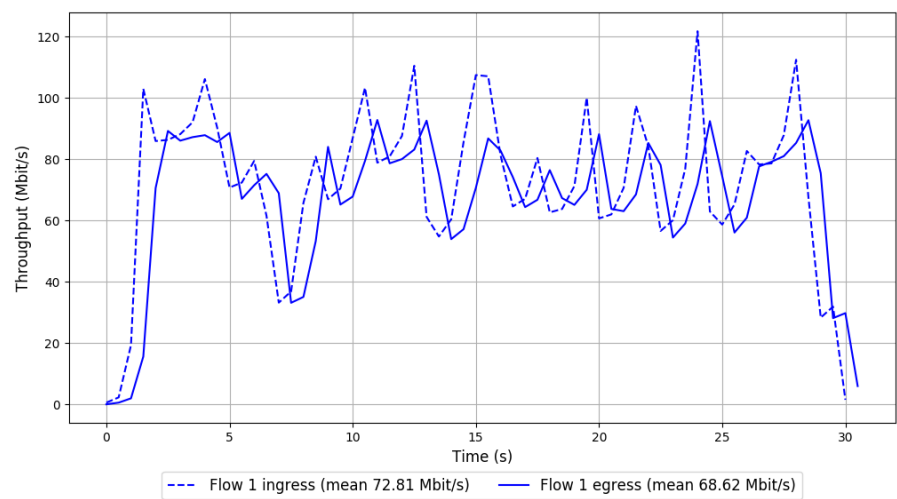
-- Flow 1:

Average throughput: 68.62 Mbit/s

95th percentile per-packet one-way delay: 113.279 ms

Loss rate: 5.74%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-06-18 10:48:32

End at: 2018-06-18 10:49:02

Local clock offset: -2.526 ms

Remote clock offset: 4.773 ms

Below is generated by plot.py at 2018-06-18 11:59:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.28 Mbit/s

95th percentile per-packet one-way delay: 99.839 ms

Loss rate: 1.42%

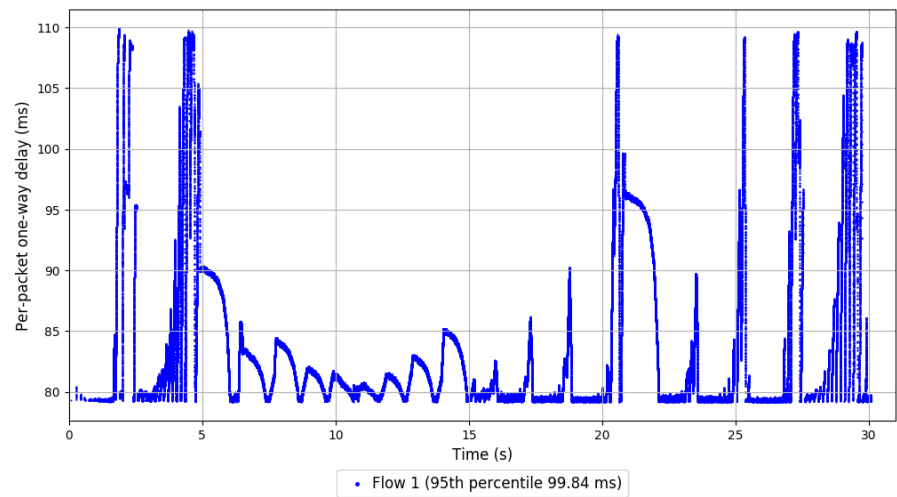
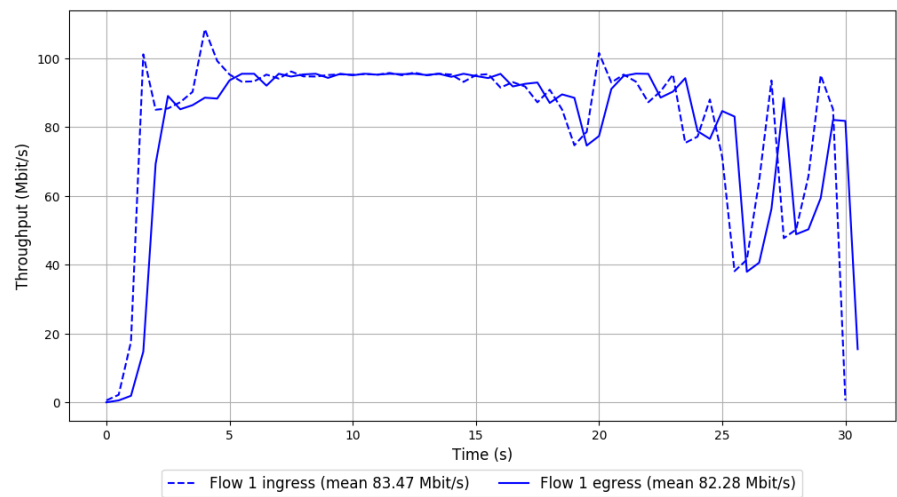
-- Flow 1:

Average throughput: 82.28 Mbit/s

95th percentile per-packet one-way delay: 99.839 ms

Loss rate: 1.42%

Run 7: Report of Copa — Data Link

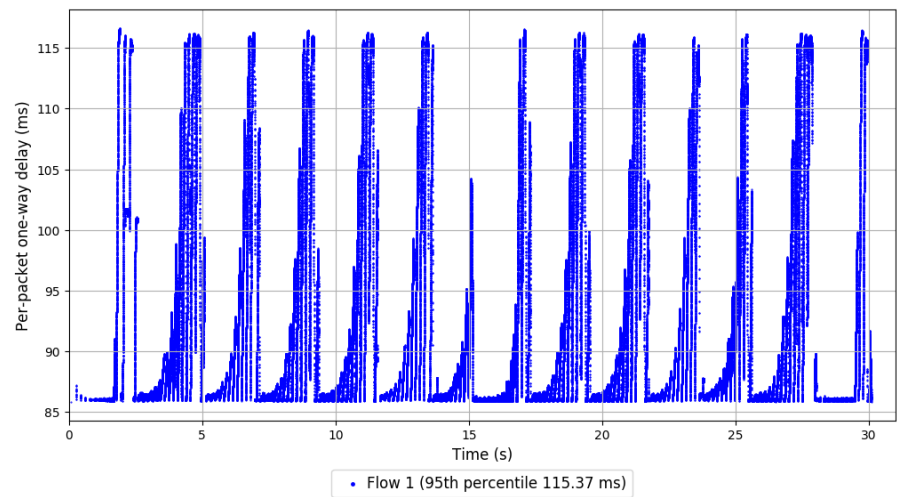
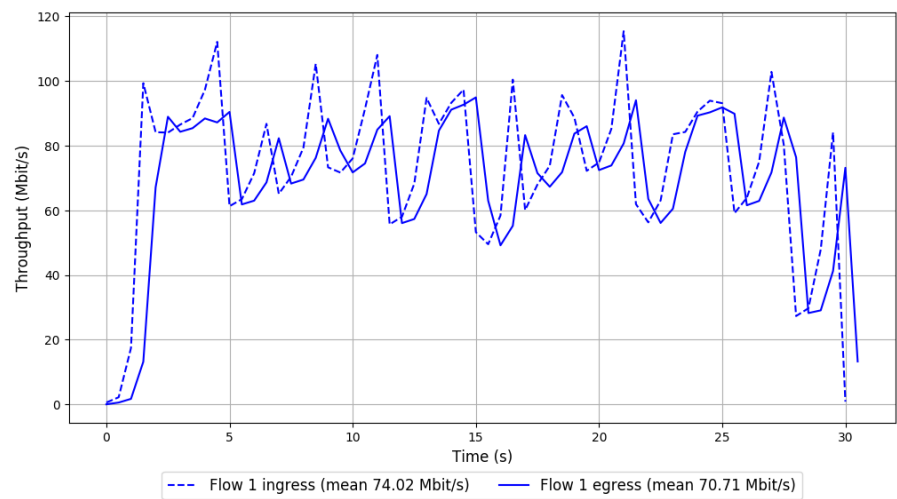


Run 8: Statistics of Copa

Start at: 2018-06-18 11:07:14
End at: 2018-06-18 11:07:44
Local clock offset: -2.572 ms
Remote clock offset: 10.389 ms

Below is generated by plot.py at 2018-06-18 11:59:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 70.71 Mbit/s
95th percentile per-packet one-way delay: 115.368 ms
Loss rate: 4.48%
-- Flow 1:
Average throughput: 70.71 Mbit/s
95th percentile per-packet one-way delay: 115.368 ms
Loss rate: 4.48%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-06-18 11:25:56

End at: 2018-06-18 11:26:26

Local clock offset: -2.866 ms

Remote clock offset: 7.979 ms

Below is generated by plot.py at 2018-06-18 12:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.08 Mbit/s

95th percentile per-packet one-way delay: 113.040 ms

Loss rate: 5.70%

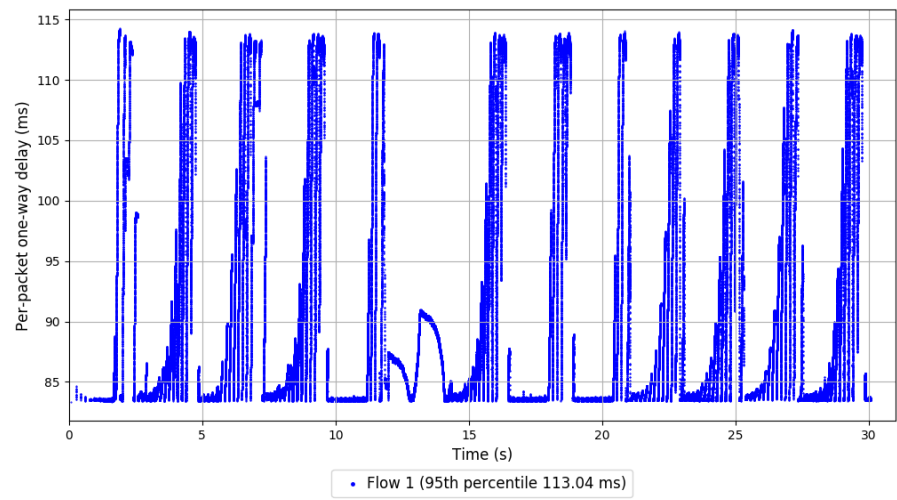
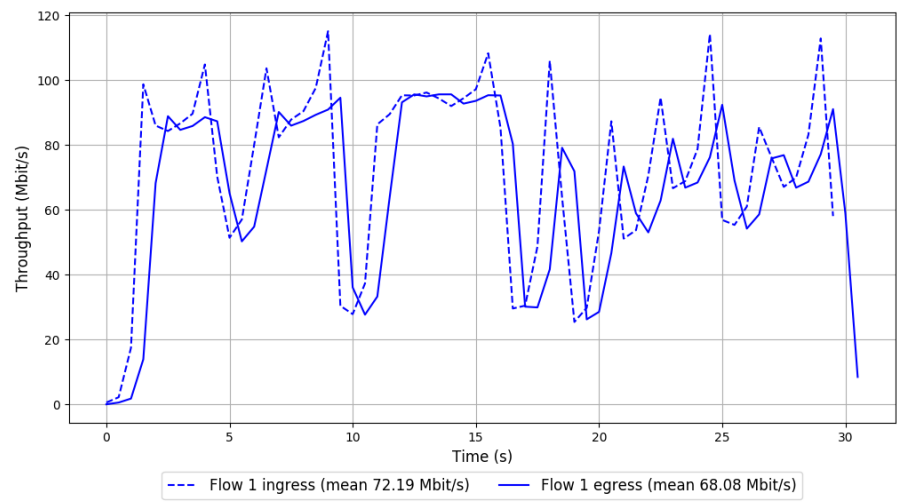
-- Flow 1:

Average throughput: 68.08 Mbit/s

95th percentile per-packet one-way delay: 113.040 ms

Loss rate: 5.70%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-06-18 11:44:40

End at: 2018-06-18 11:45:10

Local clock offset: -5.951 ms

Remote clock offset: 6.769 ms

Below is generated by plot.py at 2018-06-18 12:00:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.52 Mbit/s

95th percentile per-packet one-way delay: 102.579 ms

Loss rate: 1.15%

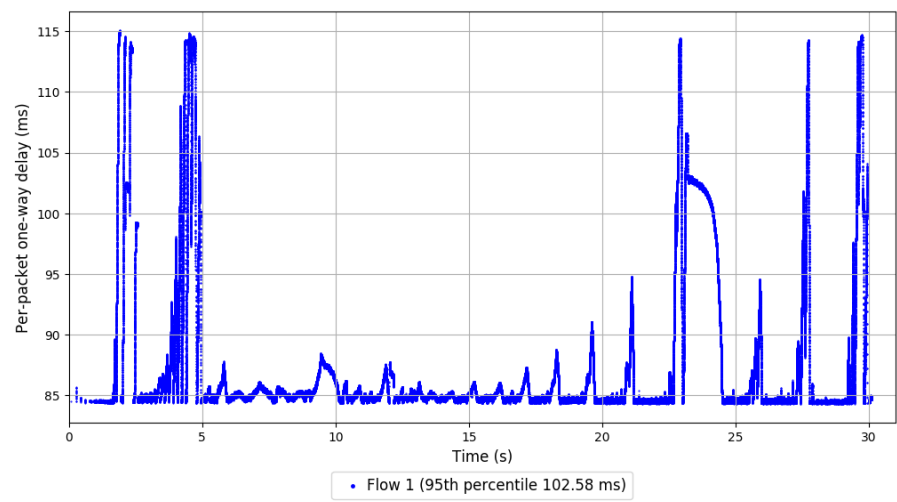
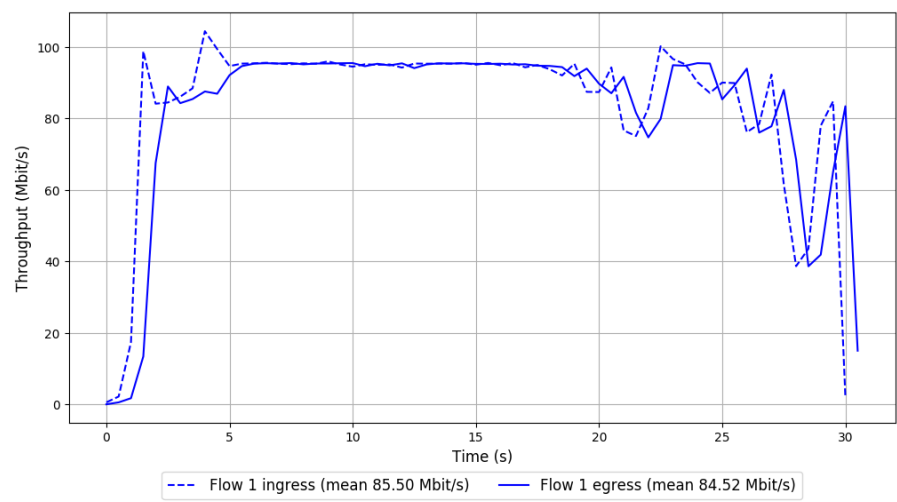
-- Flow 1:

Average throughput: 84.52 Mbit/s

95th percentile per-packet one-way delay: 102.579 ms

Loss rate: 1.15%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-06-18 08:49:34

End at: 2018-06-18 08:50:04

Local clock offset: -0.651 ms

Remote clock offset: 9.974 ms

Below is generated by plot.py at 2018-06-18 12:00:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.07 Mbit/s

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

Loss rate: 0.42%

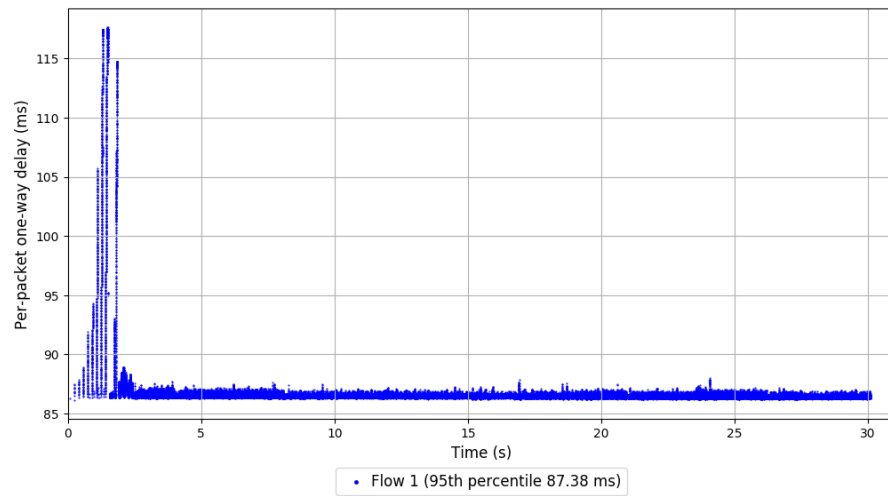
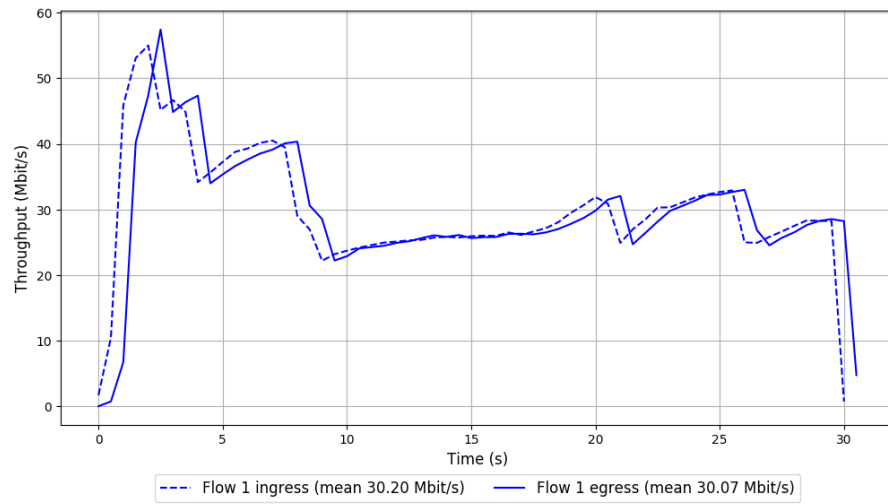
-- Flow 1:

Average throughput: 30.07 Mbit/s

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

Loss rate: 0.42%

Run 1: Report of TCP Cubic — Data Link

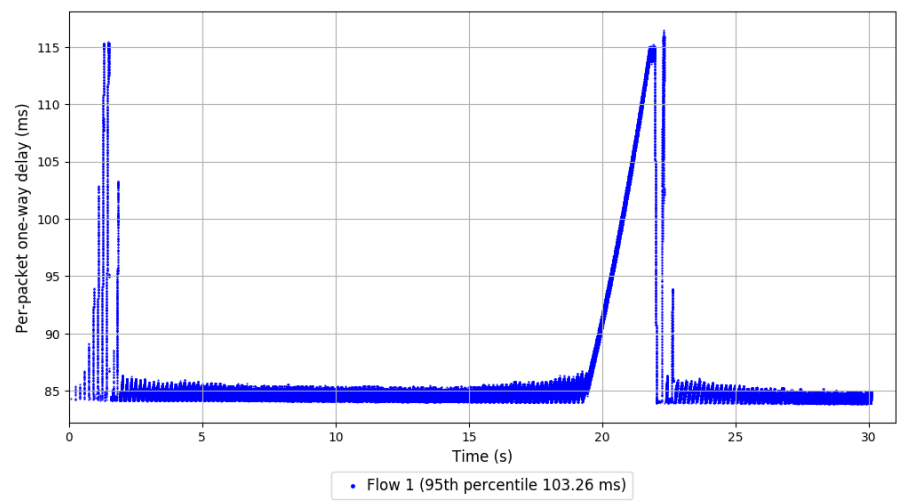
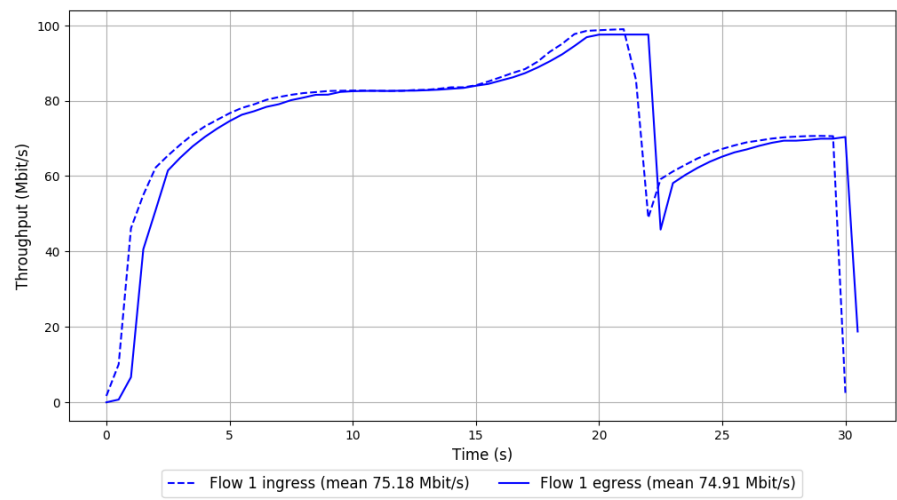


Run 2: Statistics of TCP Cubic

Start at: 2018-06-18 09:08:12
End at: 2018-06-18 09:08:42
Local clock offset: -4.156 ms
Remote clock offset: 13.459 ms

Below is generated by plot.py at 2018-06-18 12:00:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 74.91 Mbit/s
95th percentile per-packet one-way delay: 103.260 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 74.91 Mbit/s
95th percentile per-packet one-way delay: 103.260 ms
Loss rate: 0.36%

Run 2: Report of TCP Cubic — Data Link

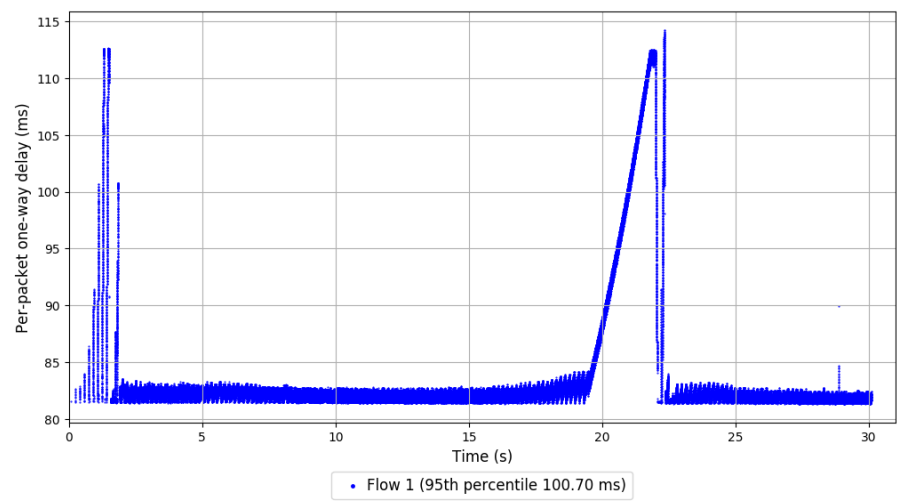
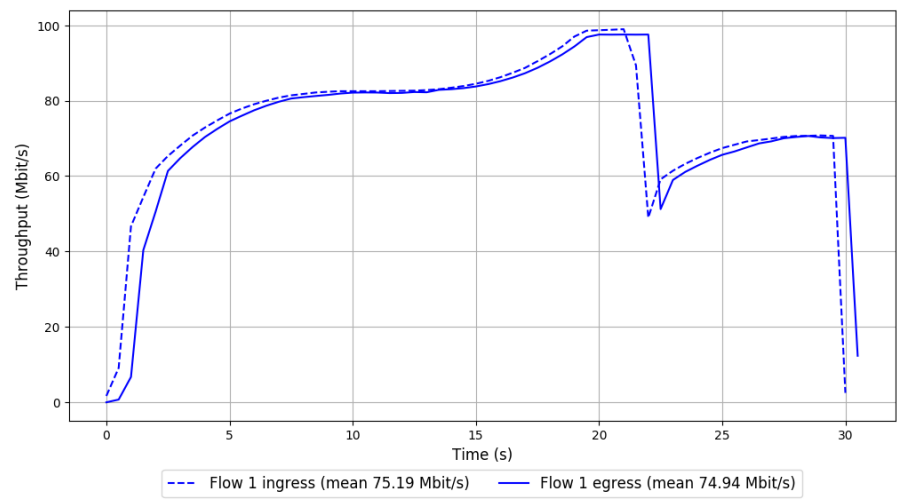


Run 3: Statistics of TCP Cubic

Start at: 2018-06-18 09:26:52
End at: 2018-06-18 09:27:22
Local clock offset: -7.785 ms
Remote clock offset: 13.192 ms

Below is generated by plot.py at 2018-06-18 12:00:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 74.94 Mbit/s
95th percentile per-packet one-way delay: 100.700 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 74.94 Mbit/s
95th percentile per-packet one-way delay: 100.700 ms
Loss rate: 0.32%

Run 3: Report of TCP Cubic — Data Link

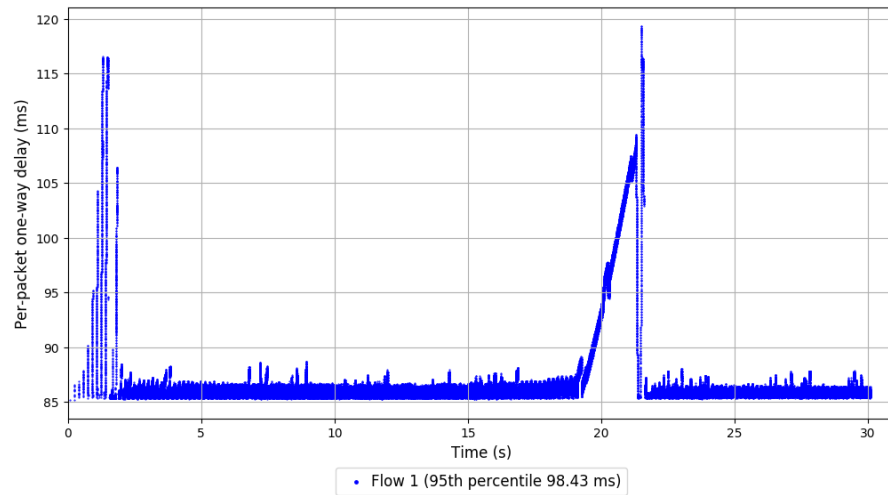
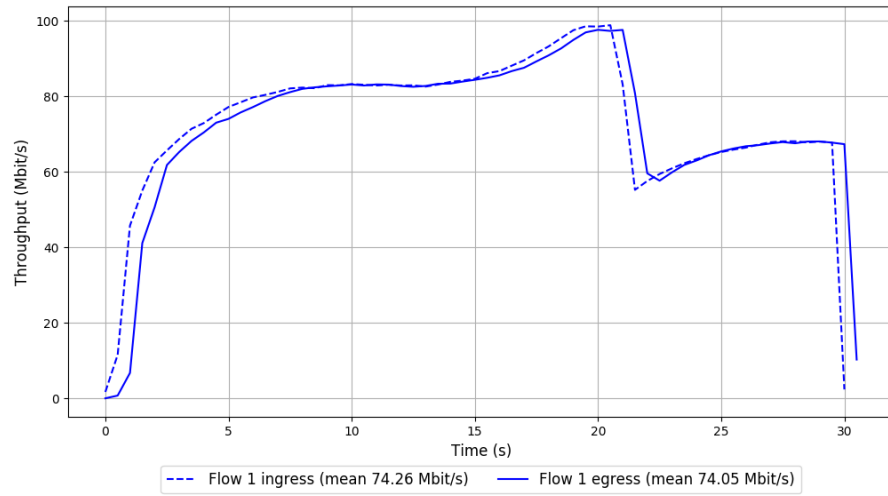


Run 4: Statistics of TCP Cubic

Start at: 2018-06-18 09:45:32
End at: 2018-06-18 09:46:02
Local clock offset: -7.514 ms
Remote clock offset: 16.755 ms

Below is generated by plot.py at 2018-06-18 12:00:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 74.05 Mbit/s
95th percentile per-packet one-way delay: 98.426 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 74.05 Mbit/s
95th percentile per-packet one-way delay: 98.426 ms
Loss rate: 0.27%

Run 4: Report of TCP Cubic — Data Link

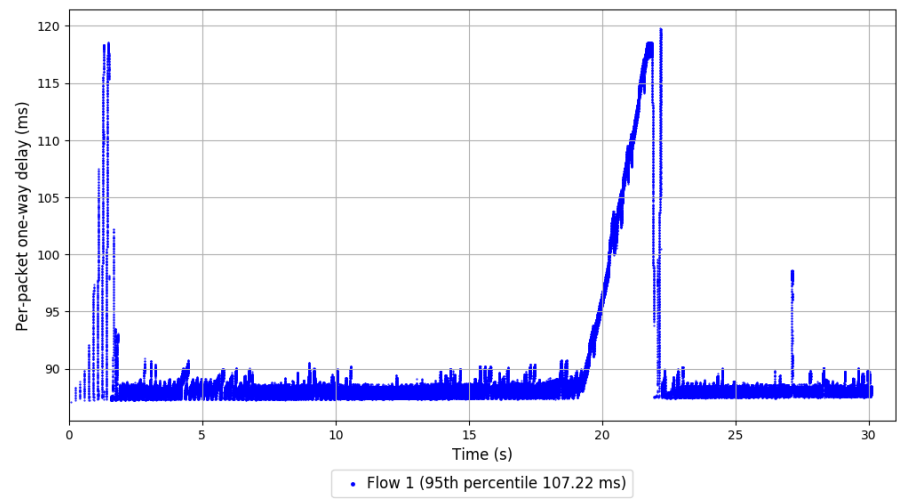
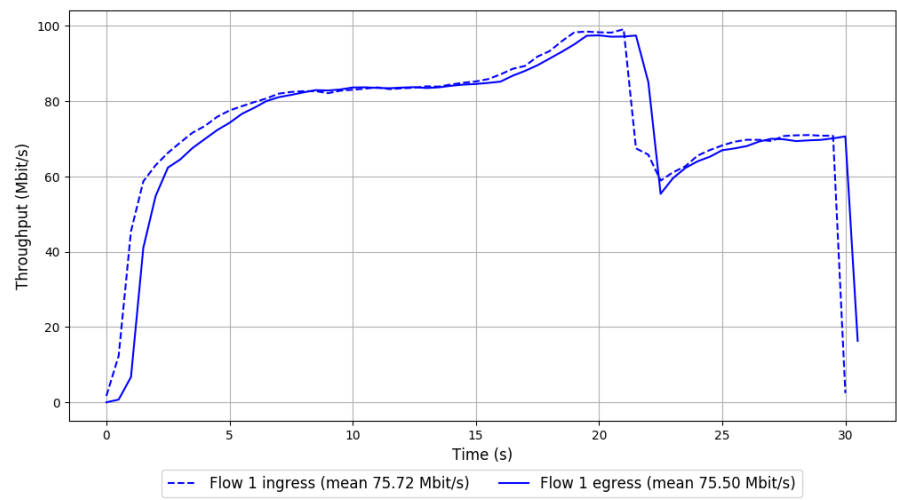


Run 5: Statistics of TCP Cubic

Start at: 2018-06-18 10:04:13
End at: 2018-06-18 10:04:43
Local clock offset: -7.853 ms
Remote clock offset: 16.565 ms

Below is generated by plot.py at 2018-06-18 12:00:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 75.50 Mbit/s
95th percentile per-packet one-way delay: 107.225 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 75.50 Mbit/s
95th percentile per-packet one-way delay: 107.225 ms
Loss rate: 0.28%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-06-18 10:22:52

End at: 2018-06-18 10:23:23

Local clock offset: -2.599 ms

Remote clock offset: 10.76 ms

Below is generated by plot.py at 2018-06-18 12:00:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.46 Mbit/s

95th percentile per-packet one-way delay: 87.924 ms

Loss rate: 0.36%

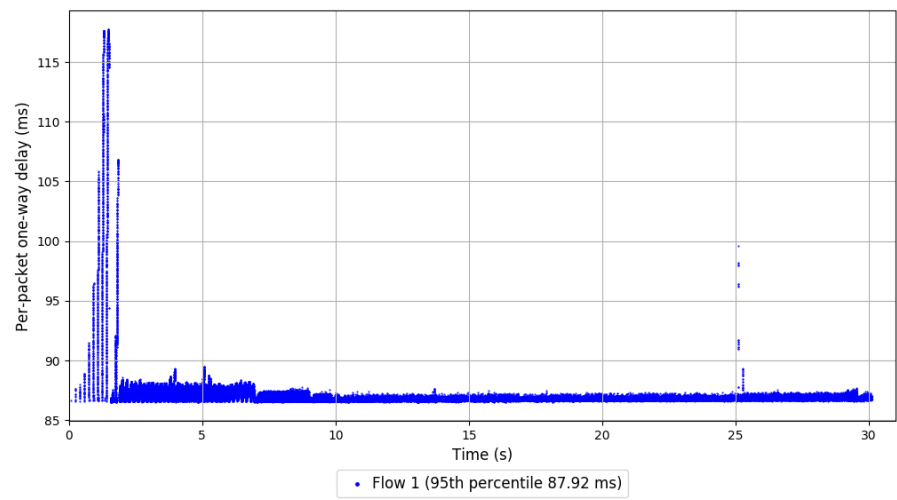
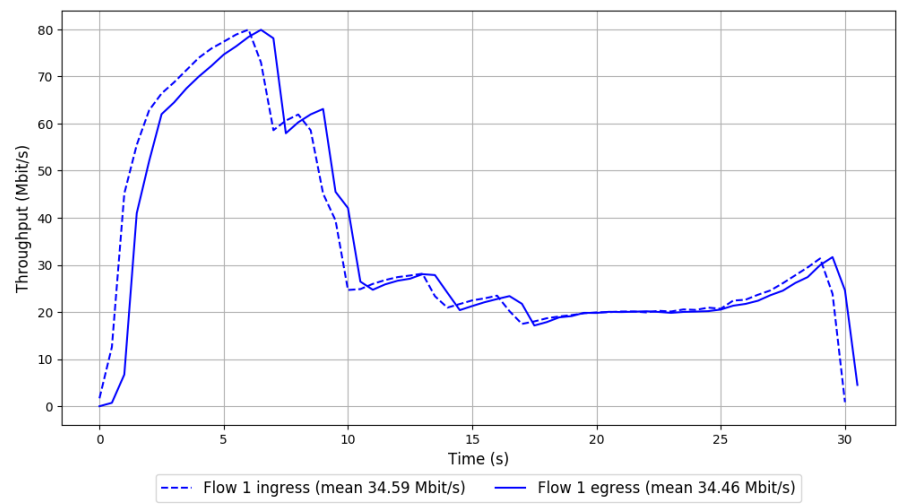
-- Flow 1:

Average throughput: 34.46 Mbit/s

95th percentile per-packet one-way delay: 87.924 ms

Loss rate: 0.36%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-06-18 10:41:30

End at: 2018-06-18 10:42:00

Local clock offset: -2.36 ms

Remote clock offset: 4.175 ms

Below is generated by plot.py at 2018-06-18 12:00:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.46 Mbit/s

95th percentile per-packet one-way delay: 82.016 ms

Loss rate: 0.35%

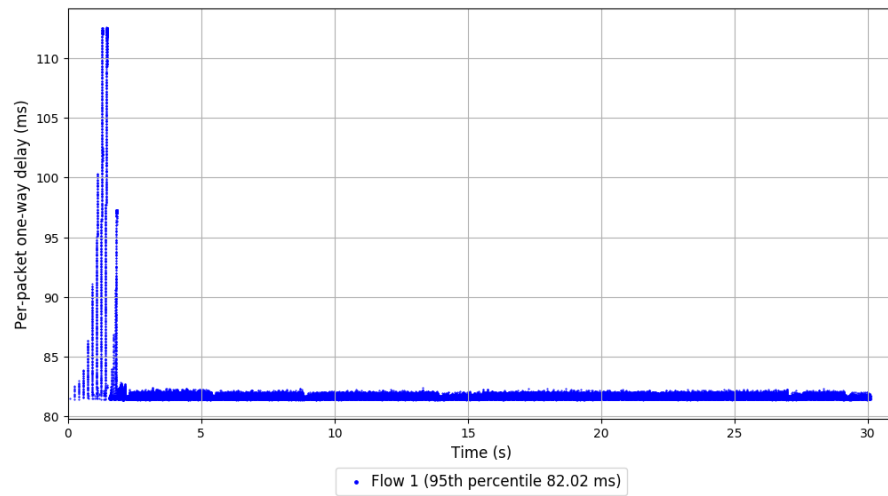
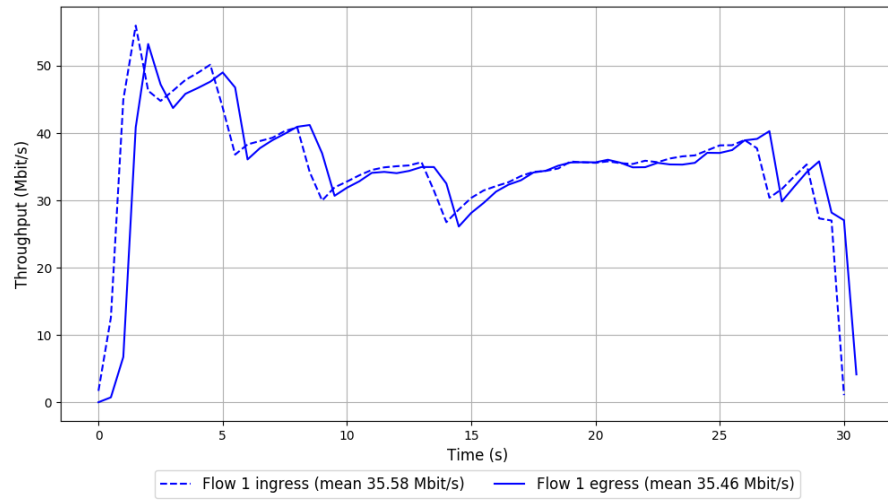
-- Flow 1:

Average throughput: 35.46 Mbit/s

95th percentile per-packet one-way delay: 82.016 ms

Loss rate: 0.35%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-06-18 11:00:14

End at: 2018-06-18 11:00:44

Local clock offset: -2.423 ms

Remote clock offset: 5.489 ms

Below is generated by plot.py at 2018-06-18 12:00:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.21 Mbit/s

95th percentile per-packet one-way delay: 100.670 ms

Loss rate: 0.61%

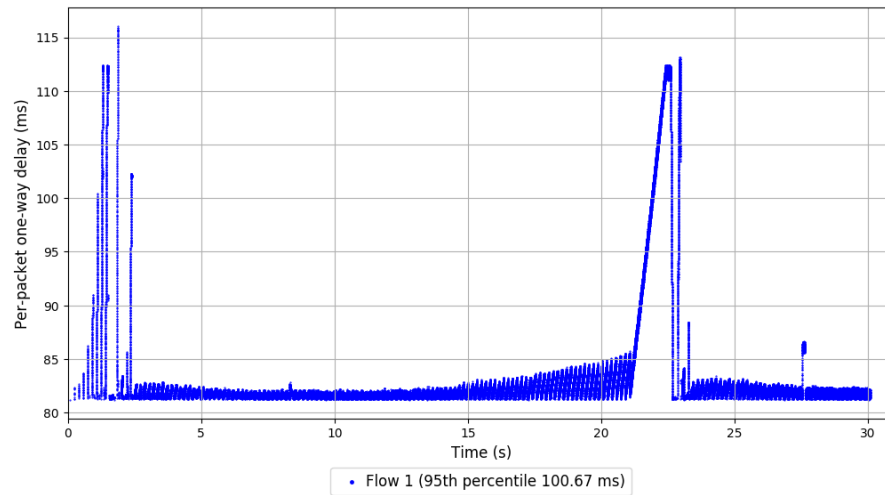
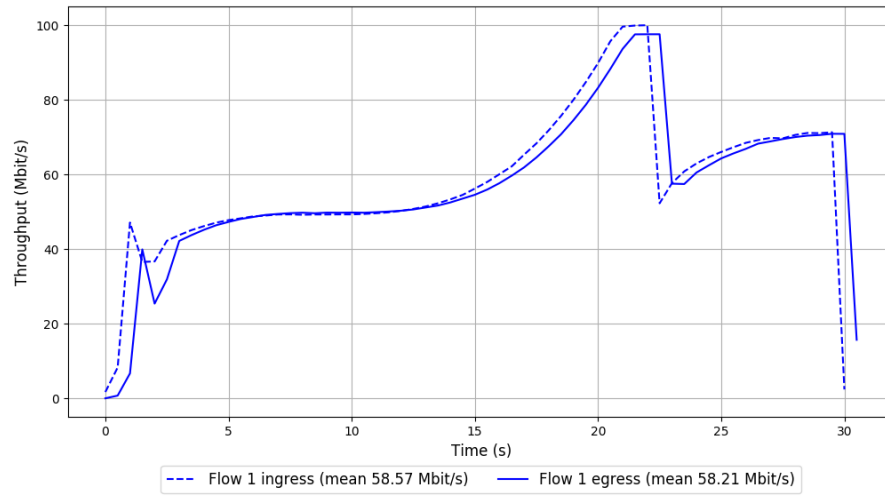
-- Flow 1:

Average throughput: 58.21 Mbit/s

95th percentile per-packet one-way delay: 100.670 ms

Loss rate: 0.61%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-06-18 11:18:55

End at: 2018-06-18 11:19:25

Local clock offset: -2.852 ms

Remote clock offset: 4.984 ms

Below is generated by plot.py at 2018-06-18 12:00:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.60 Mbit/s

95th percentile per-packet one-way delay: 100.093 ms

Loss rate: 0.37%

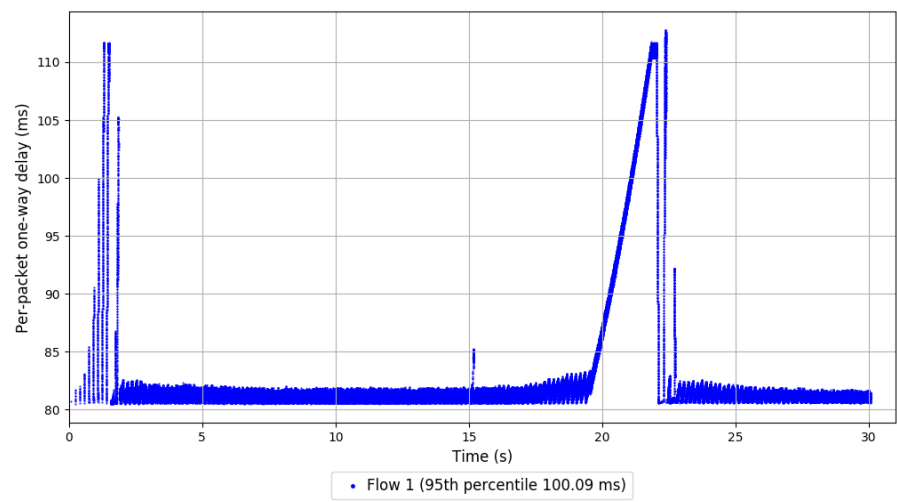
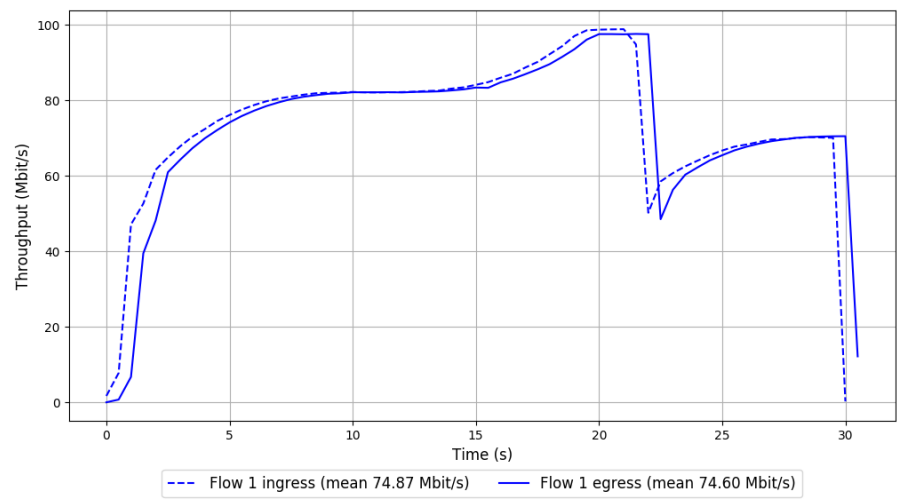
-- Flow 1:

Average throughput: 74.60 Mbit/s

95th percentile per-packet one-way delay: 100.093 ms

Loss rate: 0.37%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-06-18 11:37:40

End at: 2018-06-18 11:38:10

Local clock offset: -4.26 ms

Remote clock offset: 3.198 ms

Below is generated by plot.py at 2018-06-18 12:00:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.13 Mbit/s

95th percentile per-packet one-way delay: 100.409 ms

Loss rate: 0.31%

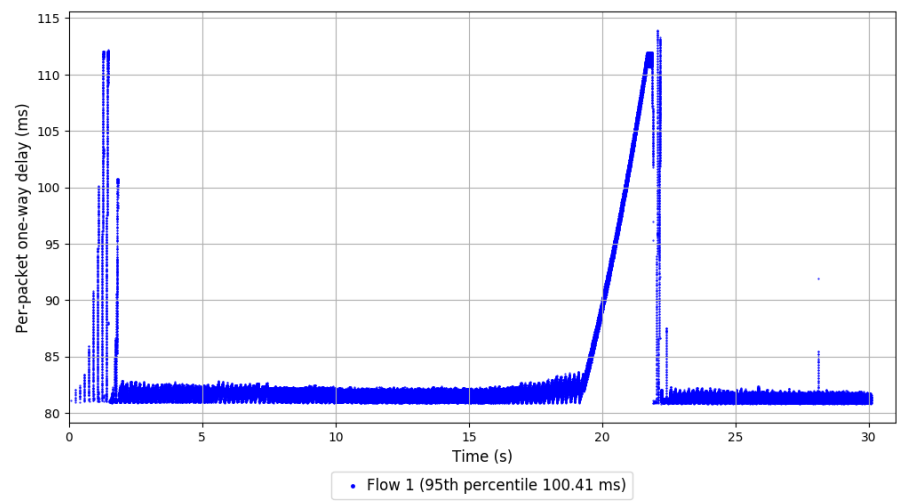
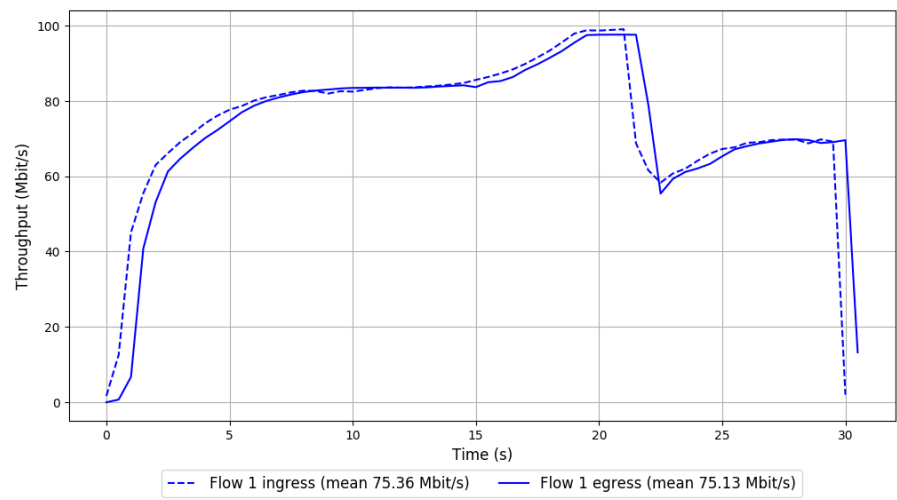
-- Flow 1:

Average throughput: 75.13 Mbit/s

95th percentile per-packet one-way delay: 100.409 ms

Loss rate: 0.31%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-06-18 08:54:10

End at: 2018-06-18 08:54:40

Local clock offset: -1.465 ms

Remote clock offset: 8.9 ms

Below is generated by plot.py at 2018-06-18 12:01:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.60 Mbit/s

95th percentile per-packet one-way delay: 118.313 ms

Loss rate: 7.80%

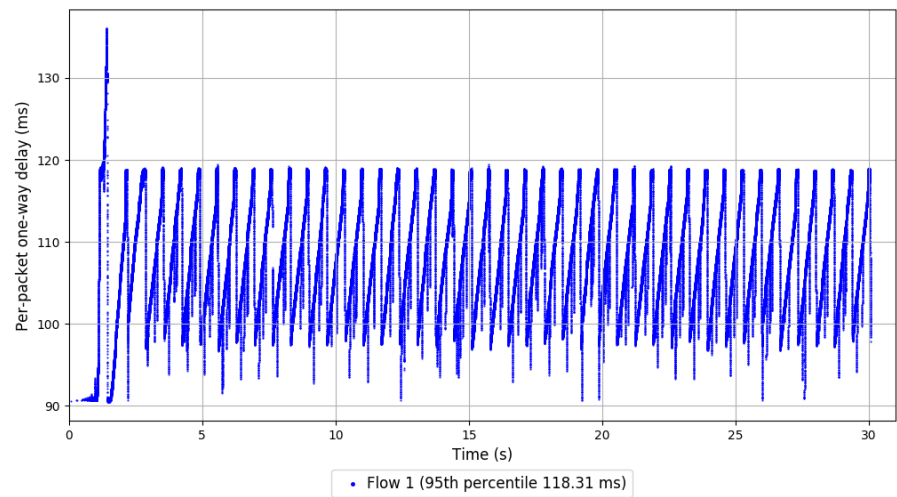
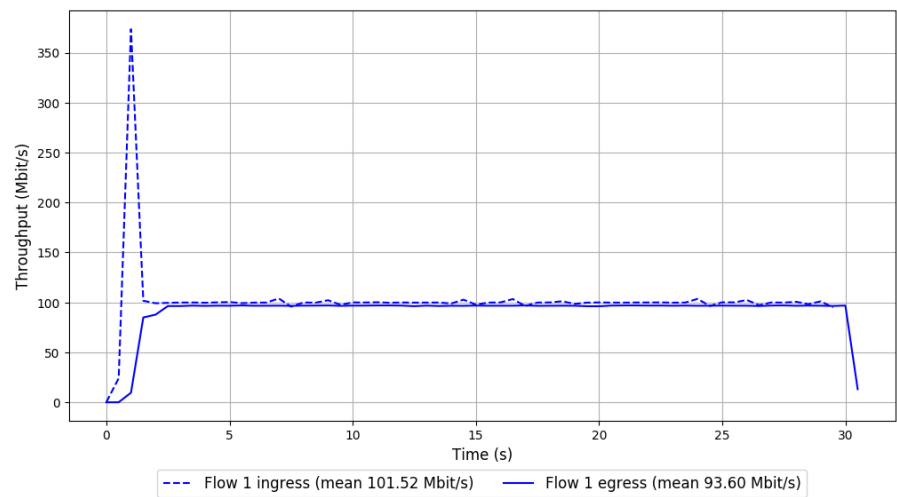
-- Flow 1:

Average throughput: 93.60 Mbit/s

95th percentile per-packet one-way delay: 118.313 ms

Loss rate: 7.80%

Run 1: Report of FillP — Data Link

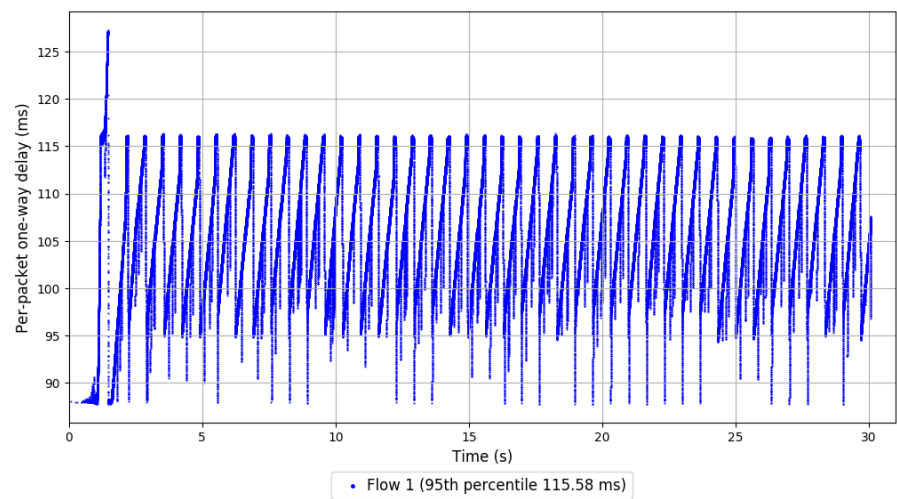
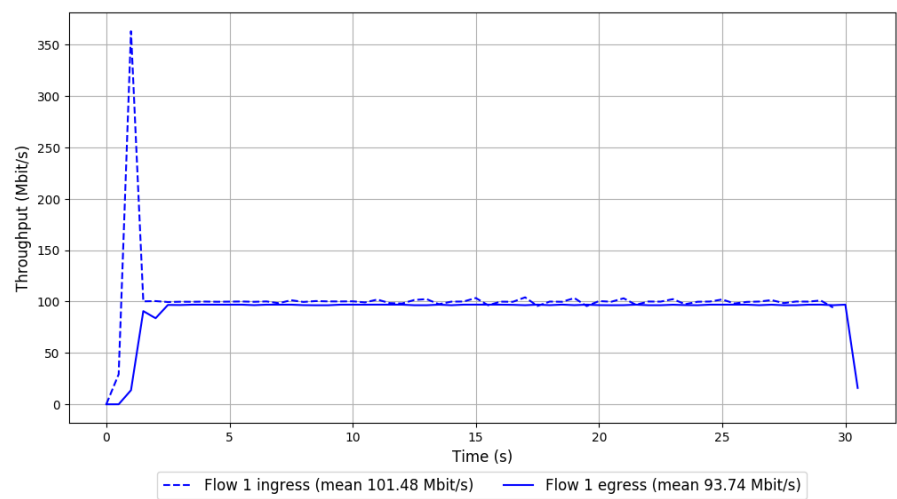


Run 2: Statistics of FillP

Start at: 2018-06-18 09:12:48
End at: 2018-06-18 09:13:18
Local clock offset: -5.591 ms
Remote clock offset: 15.815 ms

Below is generated by plot.py at 2018-06-18 12:01:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.74 Mbit/s
95th percentile per-packet one-way delay: 115.583 ms
Loss rate: 7.57%
-- Flow 1:
Average throughput: 93.74 Mbit/s
95th percentile per-packet one-way delay: 115.583 ms
Loss rate: 7.57%

Run 2: Report of FillP — Data Link

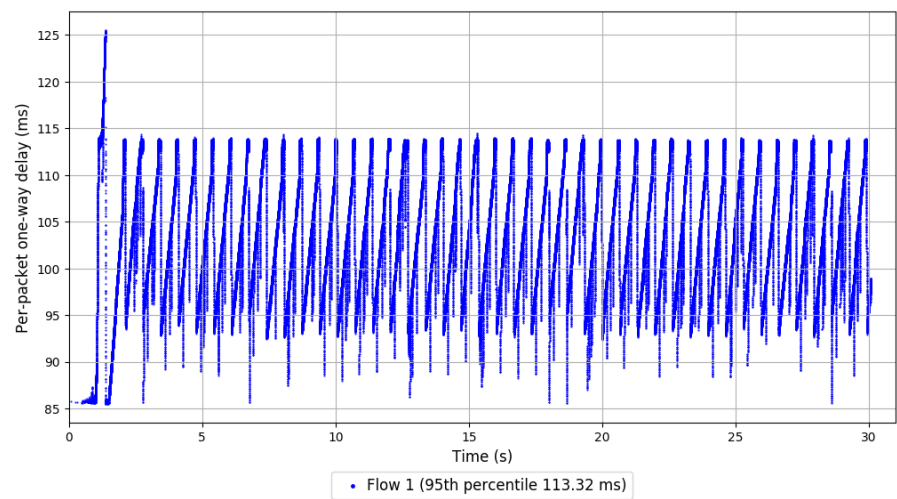
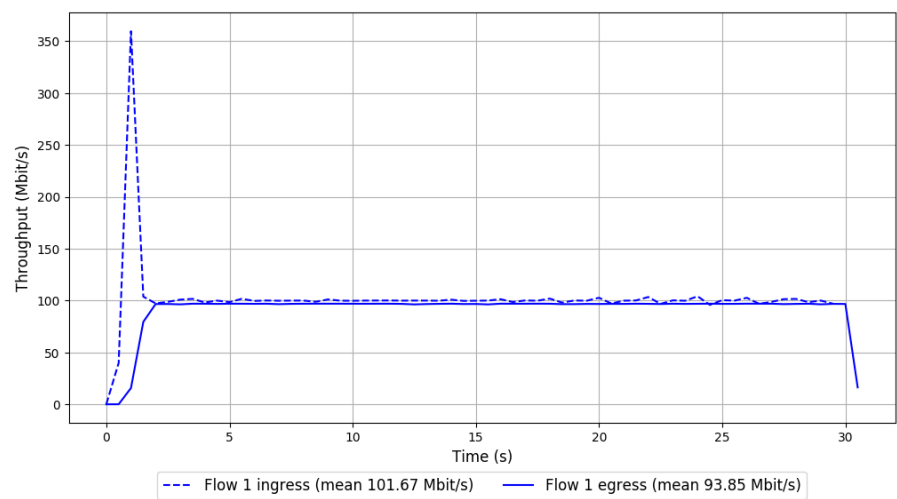


Run 3: Statistics of FillP

Start at: 2018-06-18 09:31:28
End at: 2018-06-18 09:31:58
Local clock offset: -8.306 ms
Remote clock offset: 18.882 ms

Below is generated by plot.py at 2018-06-18 12:01:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.85 Mbit/s
95th percentile per-packet one-way delay: 113.316 ms
Loss rate: 7.65%
-- Flow 1:
Average throughput: 93.85 Mbit/s
95th percentile per-packet one-way delay: 113.316 ms
Loss rate: 7.65%

Run 3: Report of FillP — Data Link

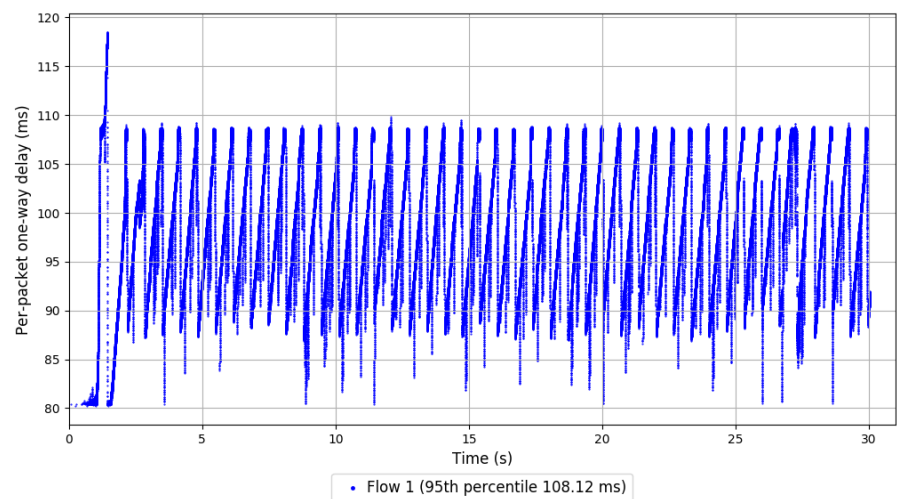
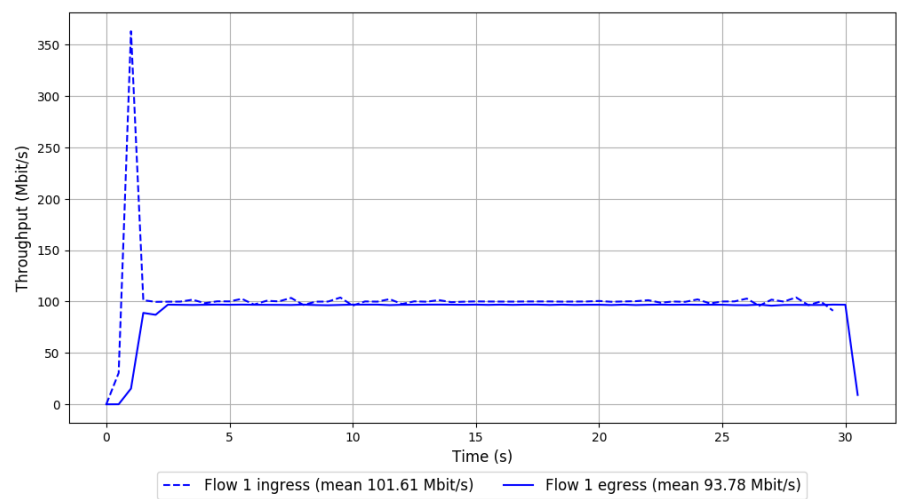


Run 4: Statistics of FillP

Start at: 2018-06-18 09:50:08
End at: 2018-06-18 09:50:38
Local clock offset: -7.563 ms
Remote clock offset: 10.447 ms

Below is generated by plot.py at 2018-06-18 12:01:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.78 Mbit/s
95th percentile per-packet one-way delay: 108.124 ms
Loss rate: 7.67%
-- Flow 1:
Average throughput: 93.78 Mbit/s
95th percentile per-packet one-way delay: 108.124 ms
Loss rate: 7.67%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-06-18 10:08:49

End at: 2018-06-18 10:09:19

Local clock offset: -5.542 ms

Remote clock offset: 10.58 ms

Below is generated by plot.py at 2018-06-18 12:01:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.92 Mbit/s

95th percentile per-packet one-way delay: 108.416 ms

Loss rate: 7.47%

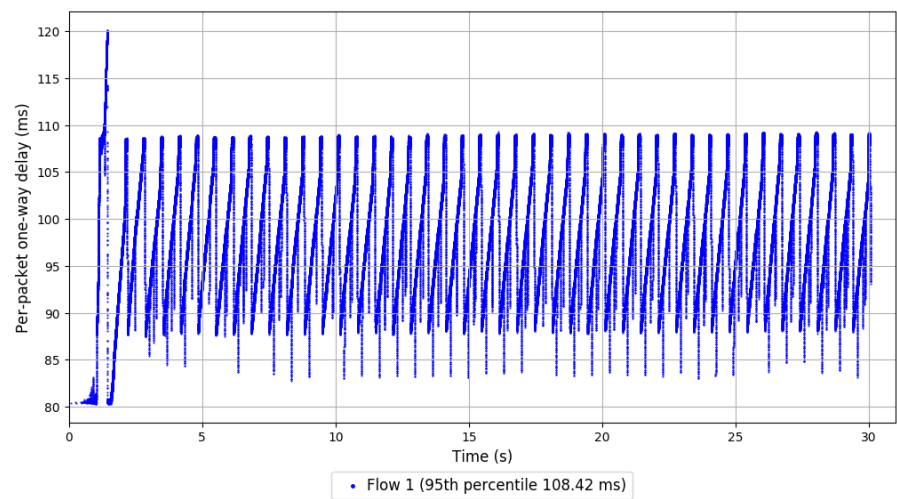
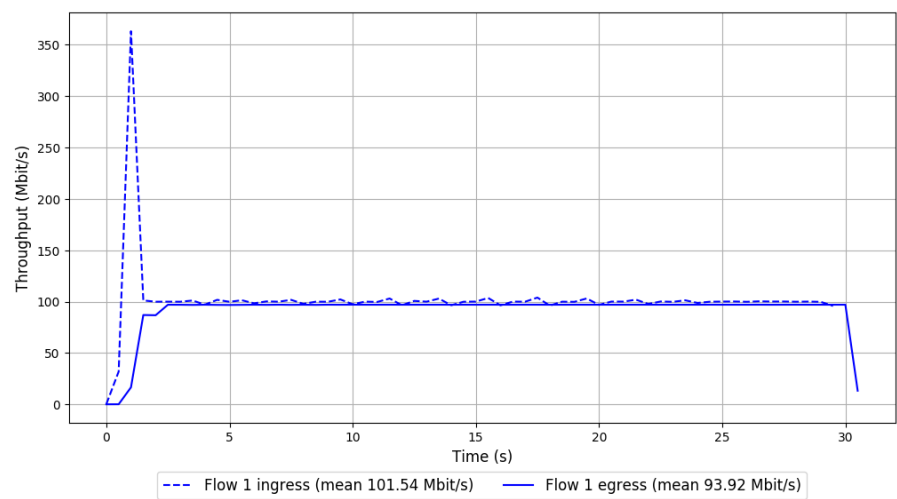
-- Flow 1:

Average throughput: 93.92 Mbit/s

95th percentile per-packet one-way delay: 108.416 ms

Loss rate: 7.47%

Run 5: Report of FillP — Data Link

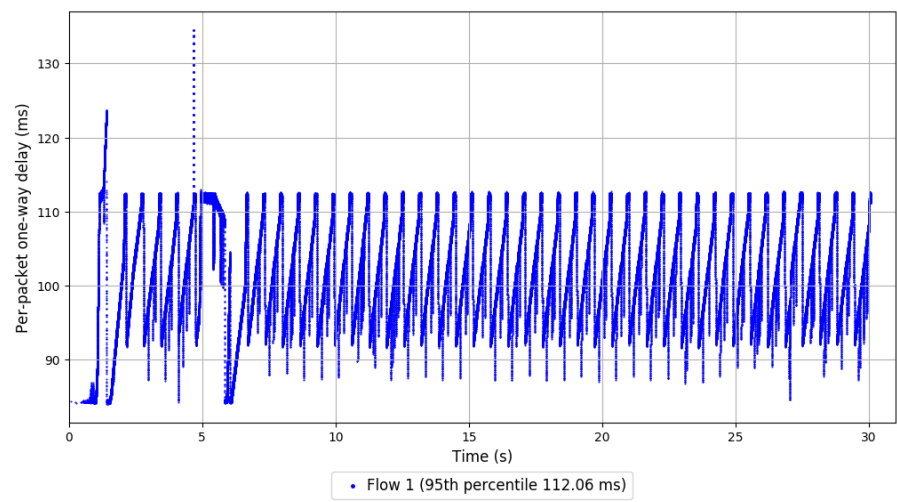
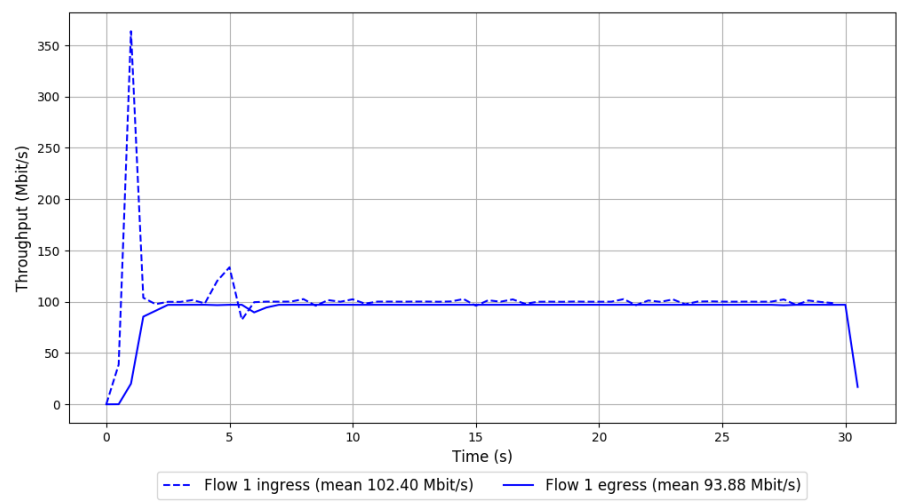


Run 6: Statistics of FillP

Start at: 2018-06-18 10:27:27
End at: 2018-06-18 10:27:57
Local clock offset: -2.215 ms
Remote clock offset: 10.142 ms

Below is generated by plot.py at 2018-06-18 12:01:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.88 Mbit/s
95th percentile per-packet one-way delay: 112.058 ms
Loss rate: 8.24%
-- Flow 1:
Average throughput: 93.88 Mbit/s
95th percentile per-packet one-way delay: 112.058 ms
Loss rate: 8.24%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-06-18 10:46:04

End at: 2018-06-18 10:46:34

Local clock offset: -2.439 ms

Remote clock offset: 5.667 ms

Below is generated by plot.py at 2018-06-18 12:02:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.03 Mbit/s

95th percentile per-packet one-way delay: 108.134 ms

Loss rate: 7.36%

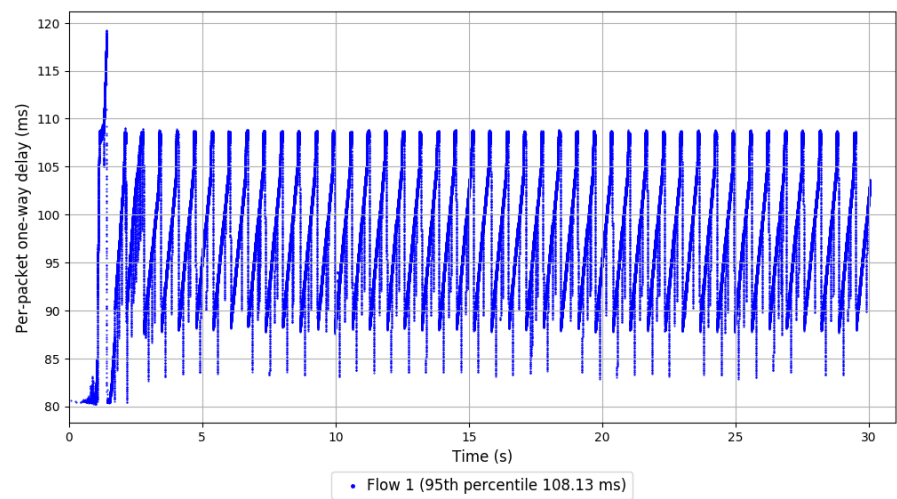
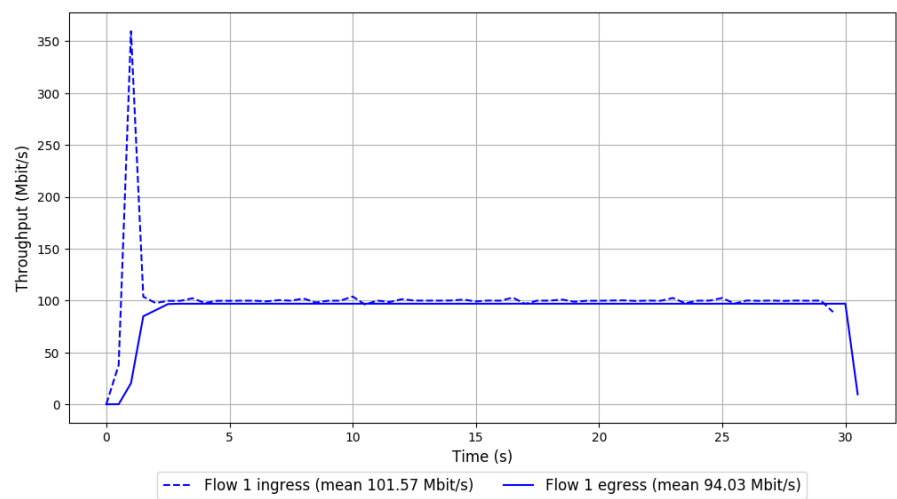
-- Flow 1:

Average throughput: 94.03 Mbit/s

95th percentile per-packet one-way delay: 108.134 ms

Loss rate: 7.36%

Run 7: Report of FillP — Data Link

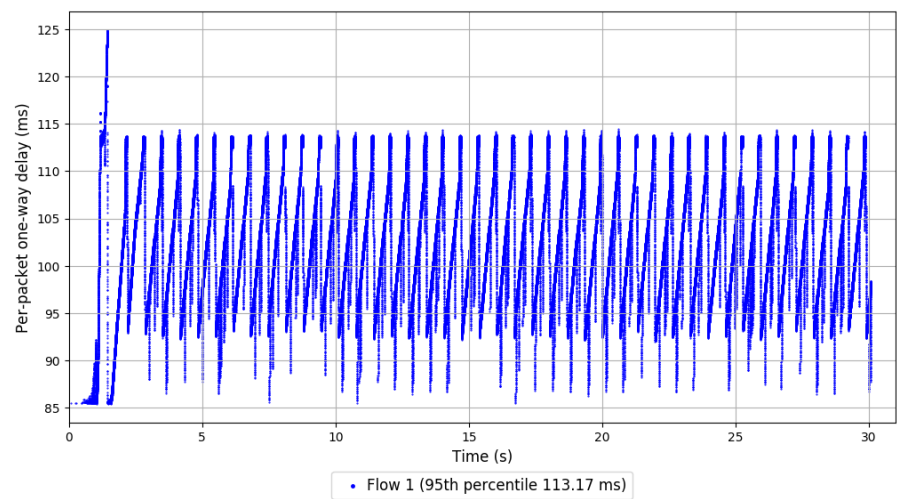
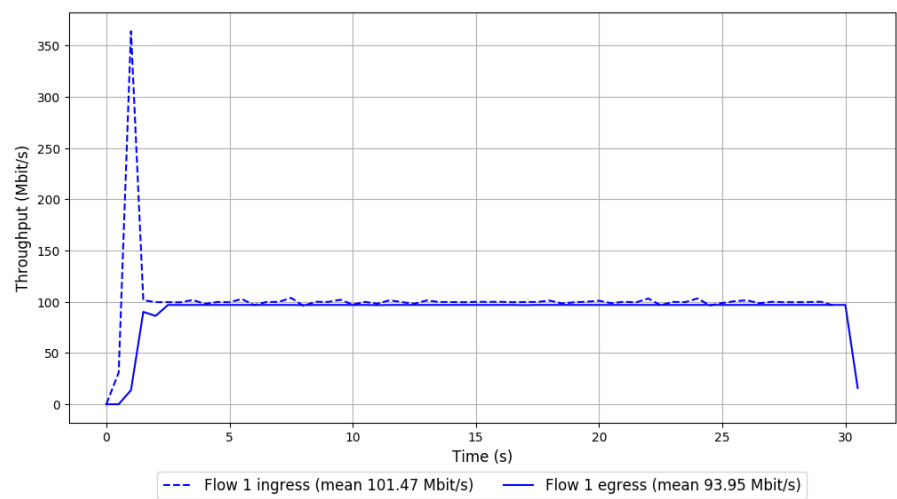


Run 8: Statistics of FillP

Start at: 2018-06-18 11:04:51
End at: 2018-06-18 11:05:21
Local clock offset: -2.435 ms
Remote clock offset: 11.453 ms

Below is generated by plot.py at 2018-06-18 12:02:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.95 Mbit/s
95th percentile per-packet one-way delay: 113.167 ms
Loss rate: 7.37%
-- Flow 1:
Average throughput: 93.95 Mbit/s
95th percentile per-packet one-way delay: 113.167 ms
Loss rate: 7.37%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-06-18 11:23:32

End at: 2018-06-18 11:24:02

Local clock offset: -2.867 ms

Remote clock offset: 5.467 ms

Below is generated by plot.py at 2018-06-18 12:02:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.65 Mbit/s

95th percentile per-packet one-way delay: 109.957 ms

Loss rate: 7.63%

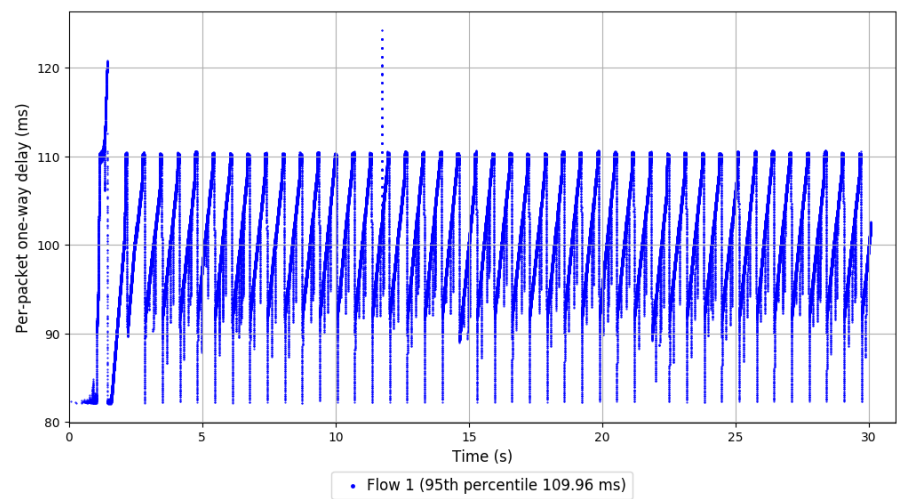
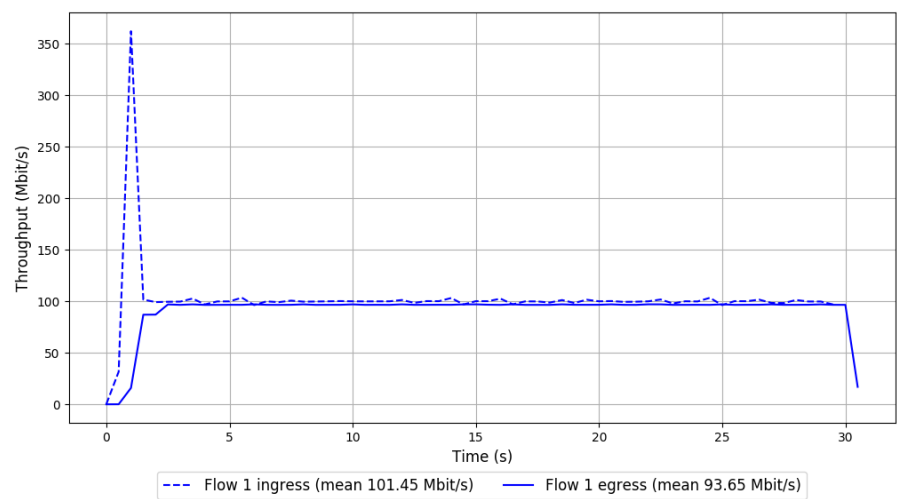
-- Flow 1:

Average throughput: 93.65 Mbit/s

95th percentile per-packet one-way delay: 109.957 ms

Loss rate: 7.63%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-06-18 11:42:16

End at: 2018-06-18 11:42:46

Local clock offset: -5.395 ms

Remote clock offset: 2.974 ms

Below is generated by plot.py at 2018-06-18 12:02:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.93 Mbit/s

95th percentile per-packet one-way delay: 107.016 ms

Loss rate: 7.43%

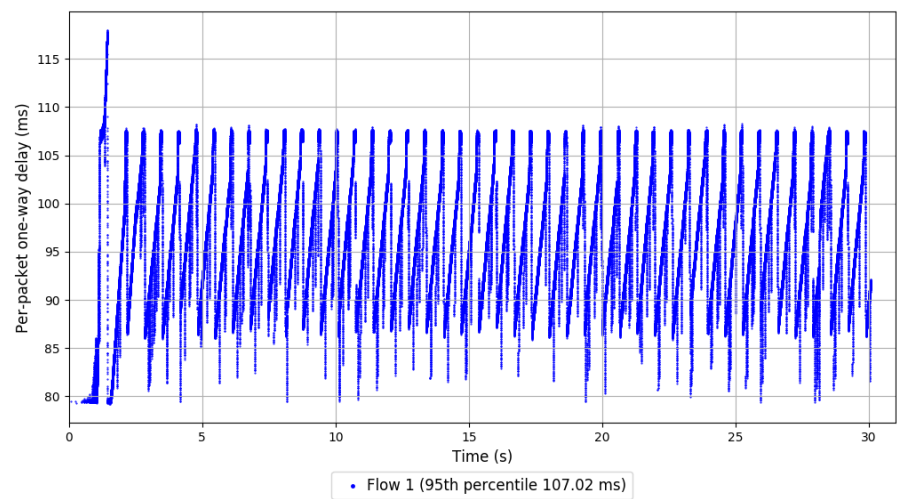
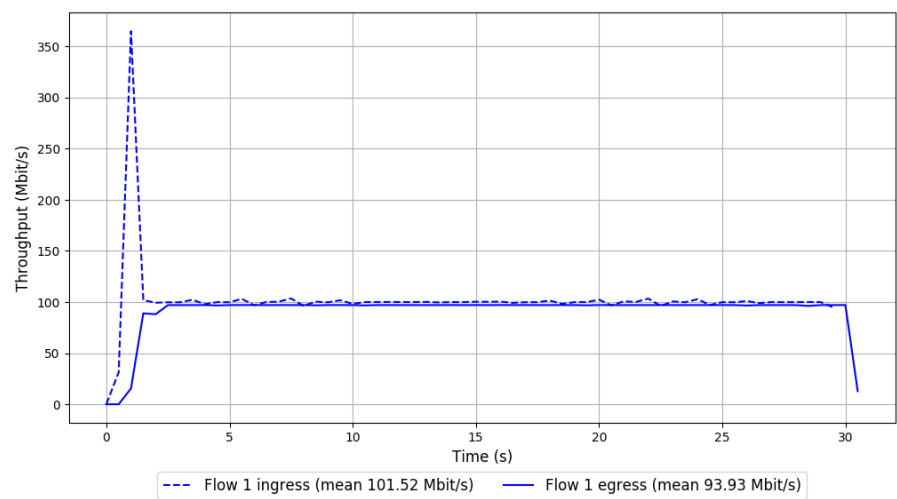
-- Flow 1:

Average throughput: 93.93 Mbit/s

95th percentile per-packet one-way delay: 107.016 ms

Loss rate: 7.43%

Run 10: Report of FillP — Data Link

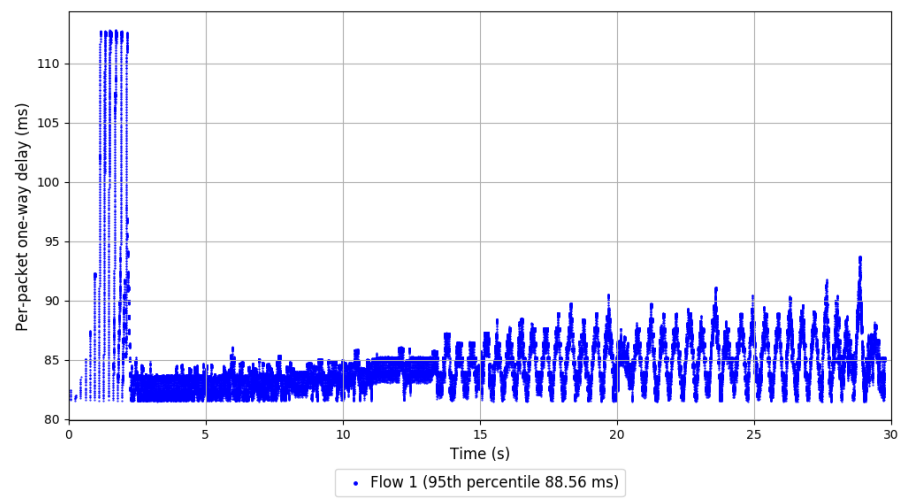
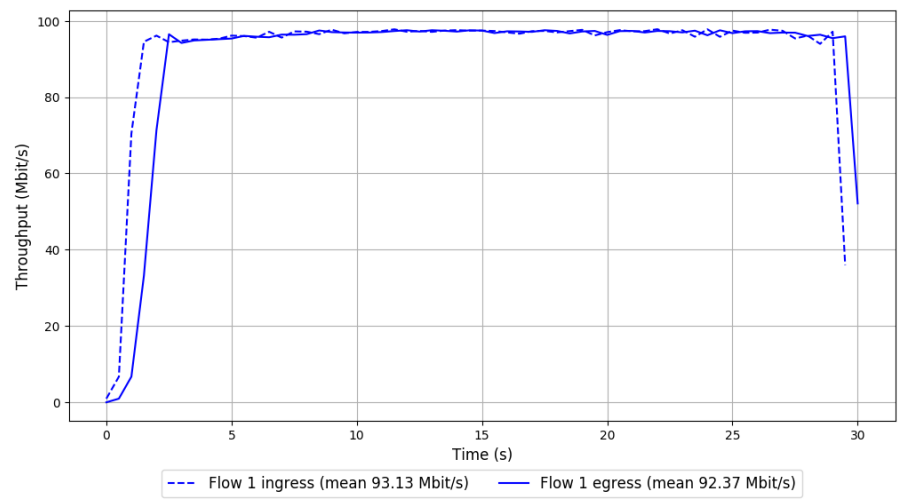


```
Run 1: Statistics of Indigo

Start at: 2018-06-18 08:57:46
End at: 2018-06-18 08:58:16
Local clock offset: -1.915 ms
Remote clock offset: 4.988 ms

# Below is generated by plot.py at 2018-06-18 12:02:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.37 Mbit/s
95th percentile per-packet one-way delay: 88.559 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 92.37 Mbit/s
95th percentile per-packet one-way delay: 88.559 ms
Loss rate: 0.81%
```

Run 1: Report of Indigo — Data Link

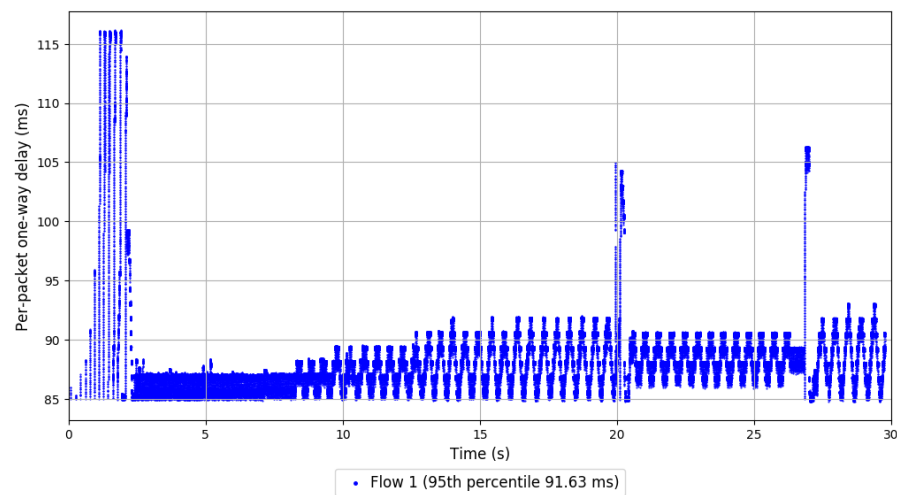
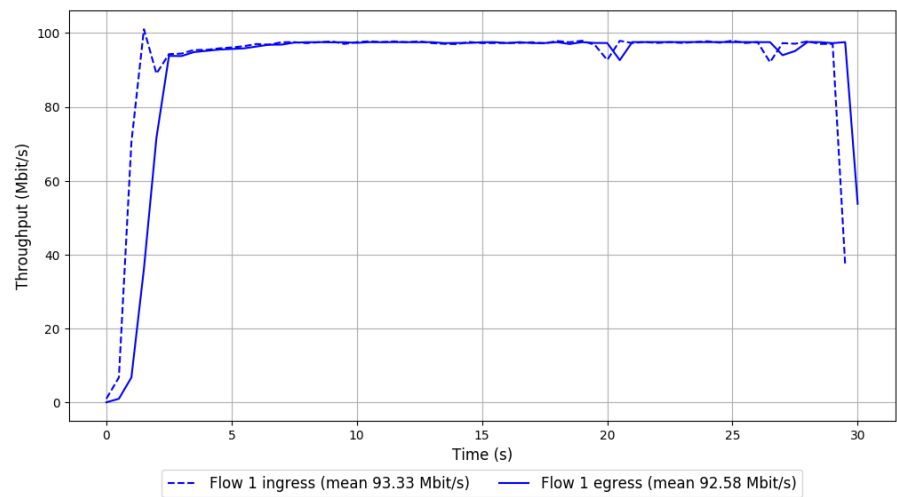


Run 2: Statistics of Indigo

Start at: 2018-06-18 09:16:24
End at: 2018-06-18 09:16:54
Local clock offset: -6.308 ms
Remote clock offset: 15.653 ms

Below is generated by plot.py at 2018-06-18 12:02:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.58 Mbit/s
95th percentile per-packet one-way delay: 91.630 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 92.58 Mbit/s
95th percentile per-packet one-way delay: 91.630 ms
Loss rate: 0.78%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-06-18 09:35:04

End at: 2018-06-18 09:35:34

Local clock offset: -8.344 ms

Remote clock offset: 17.956 ms

Below is generated by plot.py at 2018-06-18 12:02:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.48 Mbit/s

95th percentile per-packet one-way delay: 91.188 ms

Loss rate: 0.64%

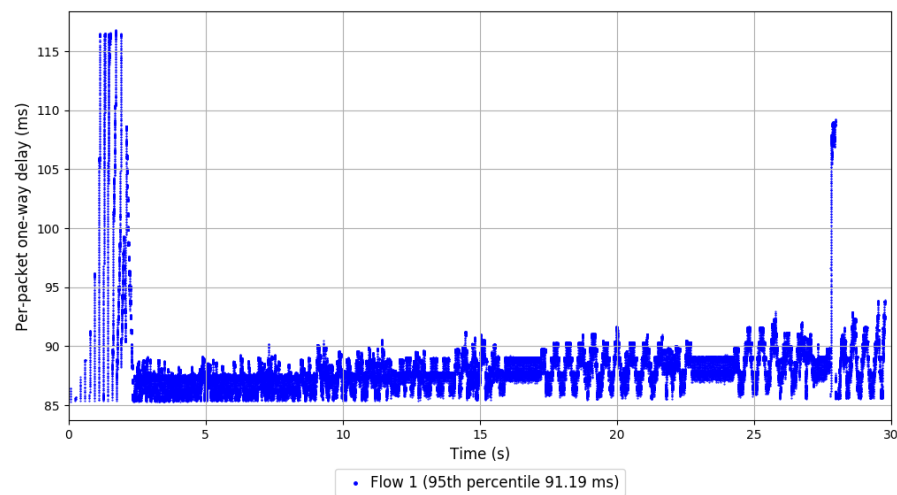
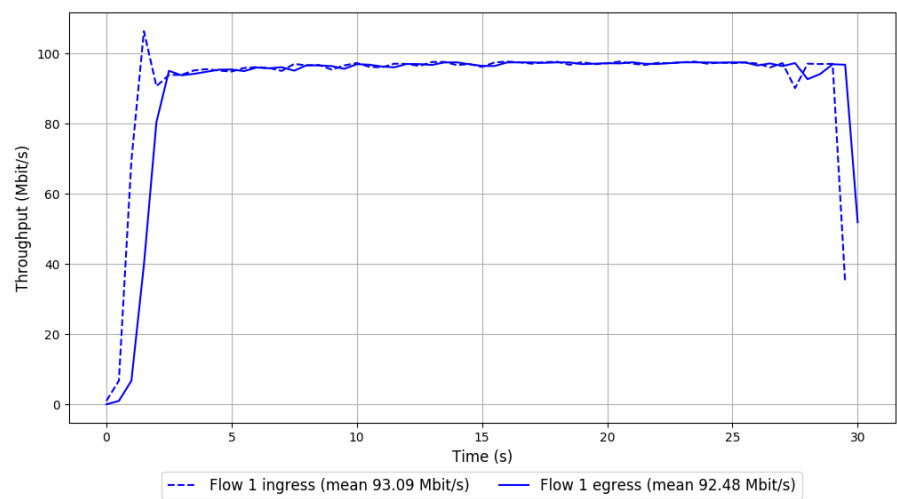
-- Flow 1:

Average throughput: 92.48 Mbit/s

95th percentile per-packet one-way delay: 91.188 ms

Loss rate: 0.64%

Run 3: Report of Indigo — Data Link

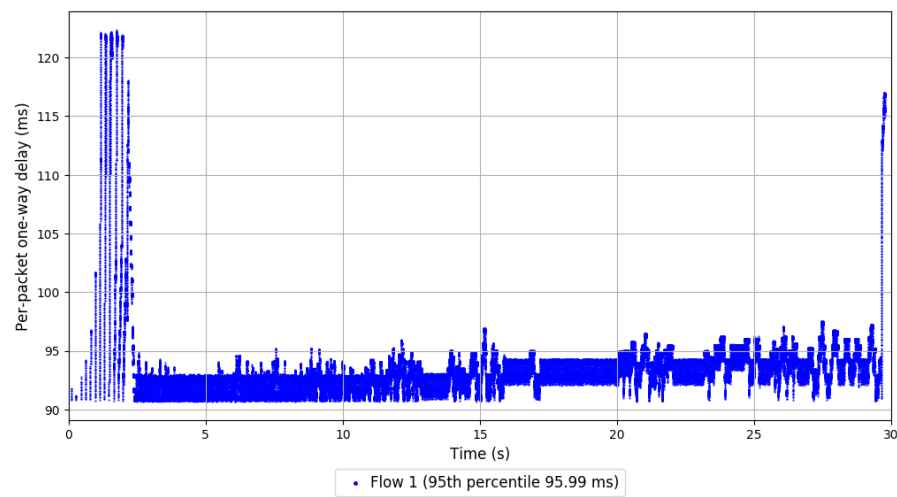
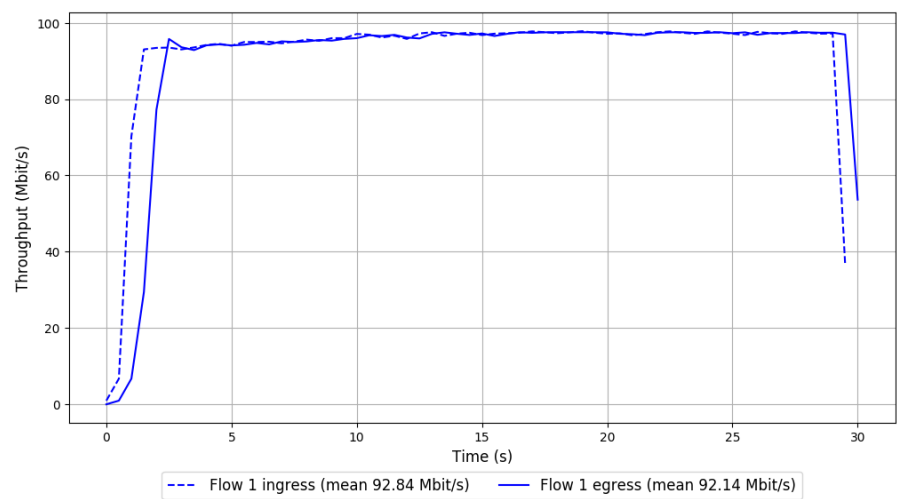


Run 4: Statistics of Indigo

Start at: 2018-06-18 09:53:45
End at: 2018-06-18 09:54:15
Local clock offset: -7.621 ms
Remote clock offset: 14.187 ms

Below is generated by plot.py at 2018-06-18 12:03:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.14 Mbit/s
95th percentile per-packet one-way delay: 95.990 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 92.14 Mbit/s
95th percentile per-packet one-way delay: 95.990 ms
Loss rate: 0.69%

Run 4: Report of Indigo — Data Link

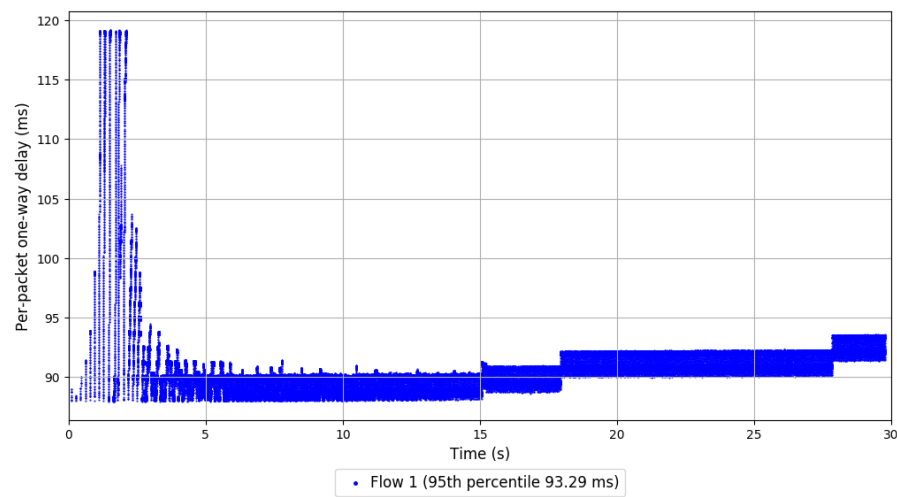
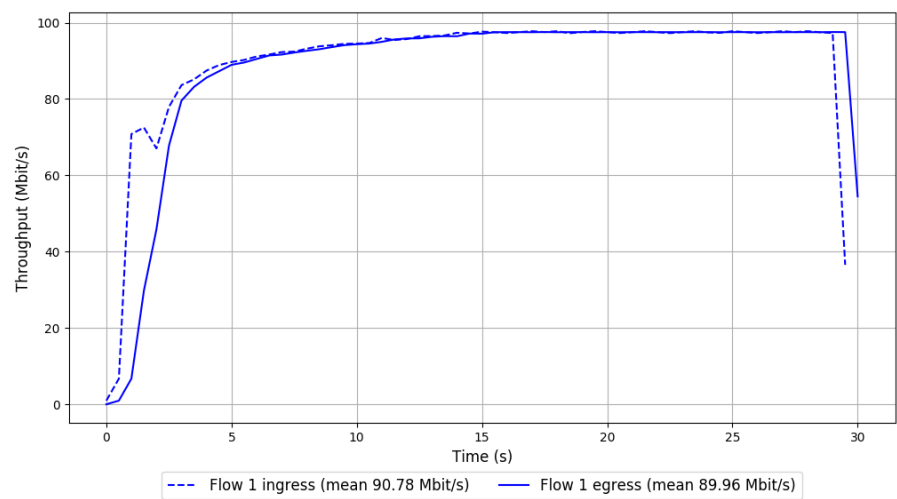


Run 5: Statistics of Indigo

Start at: 2018-06-18 10:12:25
End at: 2018-06-18 10:12:55
Local clock offset: -4.426 ms
Remote clock offset: 14.707 ms

Below is generated by plot.py at 2018-06-18 12:03:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.96 Mbit/s
95th percentile per-packet one-way delay: 93.290 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 89.96 Mbit/s
95th percentile per-packet one-way delay: 93.290 ms
Loss rate: 0.89%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-06-18 10:31:02

End at: 2018-06-18 10:31:32

Local clock offset: -2.005 ms

Remote clock offset: 4.69 ms

Below is generated by plot.py at 2018-06-18 12:03:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.75 Mbit/s

95th percentile per-packet one-way delay: 90.661 ms

Loss rate: 1.08%

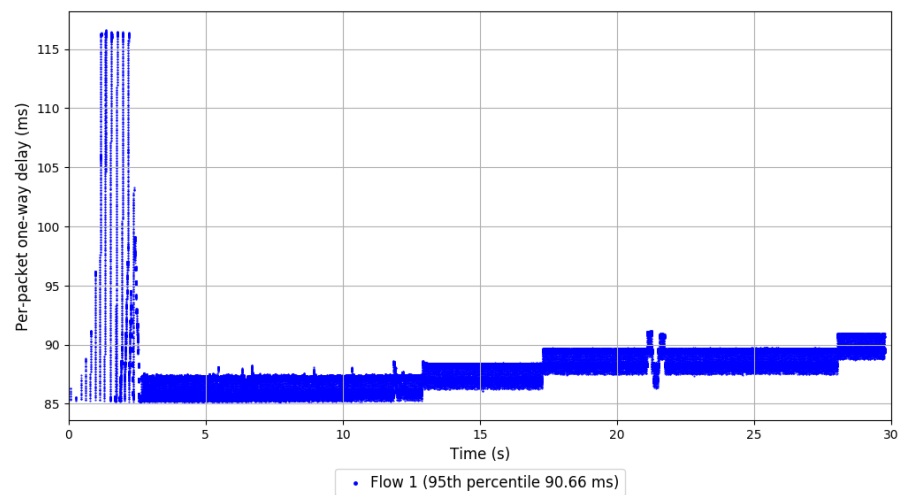
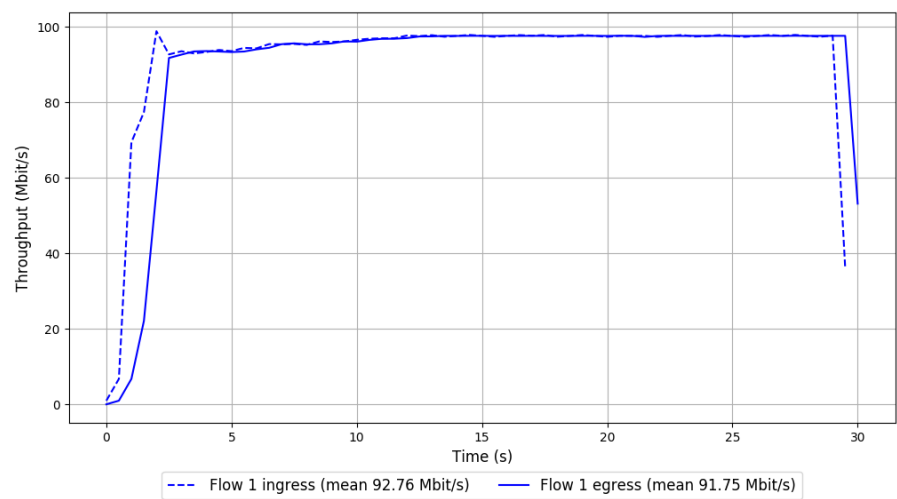
-- Flow 1:

Average throughput: 91.75 Mbit/s

95th percentile per-packet one-way delay: 90.661 ms

Loss rate: 1.08%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-06-18 10:49:46

End at: 2018-06-18 10:50:16

Local clock offset: -2.482 ms

Remote clock offset: 9.803 ms

Below is generated by plot.py at 2018-06-18 12:03:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.83 Mbit/s

95th percentile per-packet one-way delay: 89.970 ms

Loss rate: 0.67%

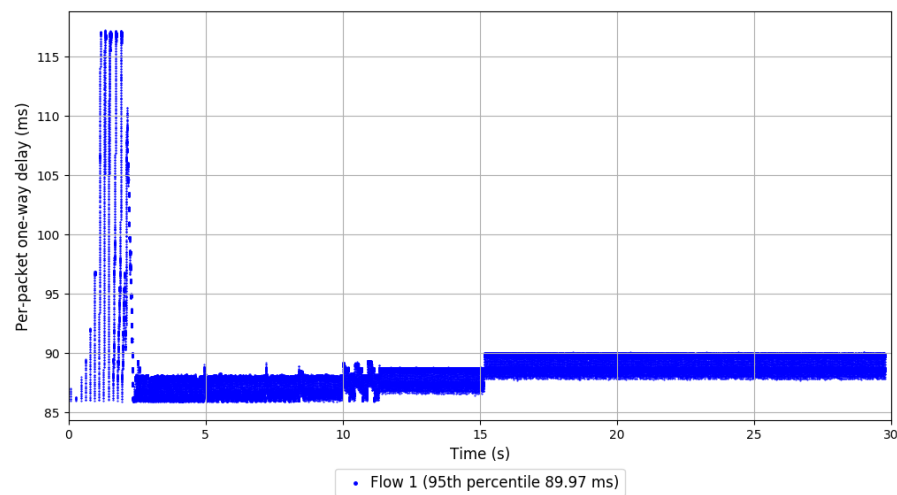
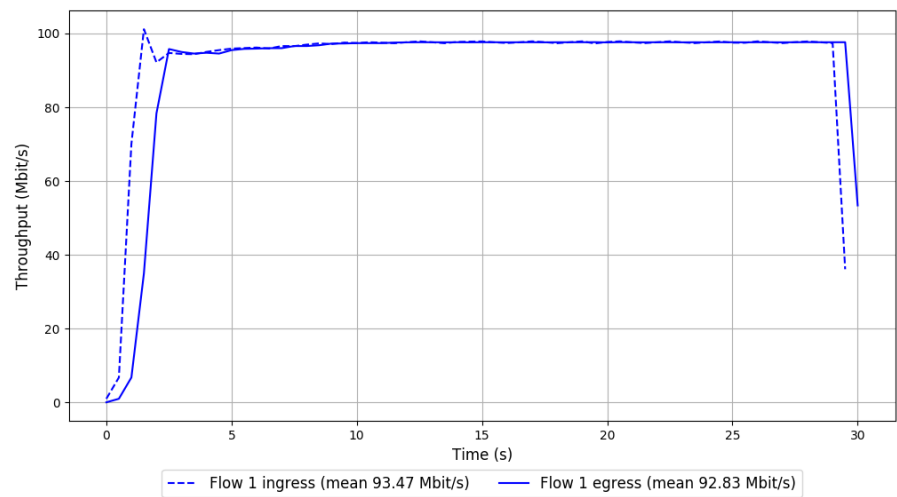
-- Flow 1:

Average throughput: 92.83 Mbit/s

95th percentile per-packet one-way delay: 89.970 ms

Loss rate: 0.67%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-06-18 11:08:27

End at: 2018-06-18 11:08:57

Local clock offset: -2.691 ms

Remote clock offset: 6.434 ms

Below is generated by plot.py at 2018-06-18 12:03:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.77 Mbit/s

95th percentile per-packet one-way delay: 86.475 ms

Loss rate: 0.73%

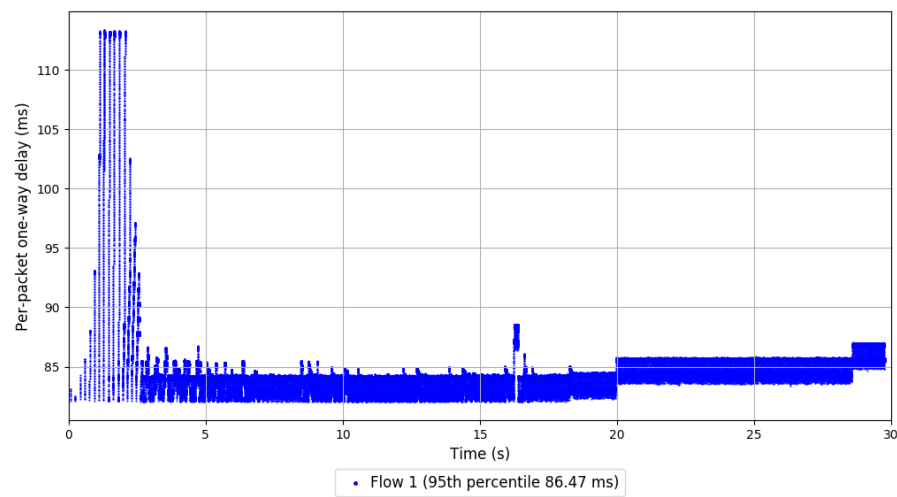
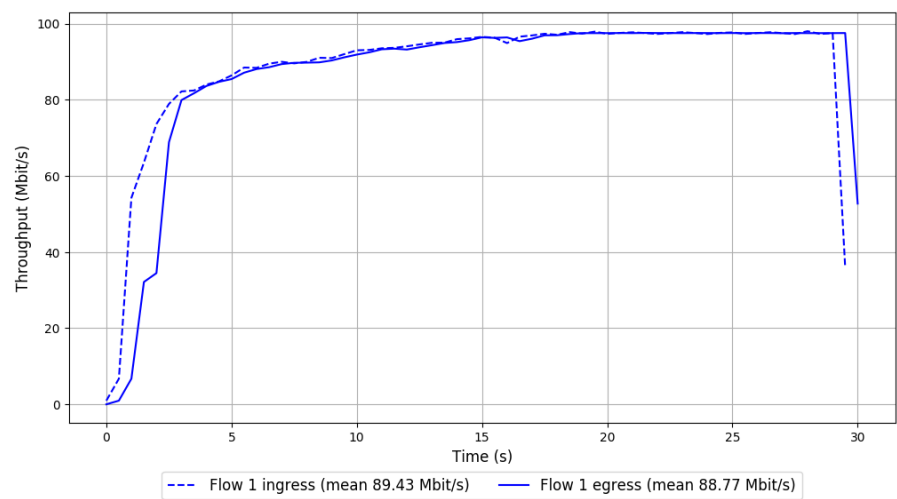
-- Flow 1:

Average throughput: 88.77 Mbit/s

95th percentile per-packet one-way delay: 86.475 ms

Loss rate: 0.73%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-06-18 11:27:09

End at: 2018-06-18 11:27:39

Local clock offset: -2.931 ms

Remote clock offset: 8.954 ms

Below is generated by plot.py at 2018-06-18 12:04:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.29 Mbit/s

95th percentile per-packet one-way delay: 96.971 ms

Loss rate: 1.09%

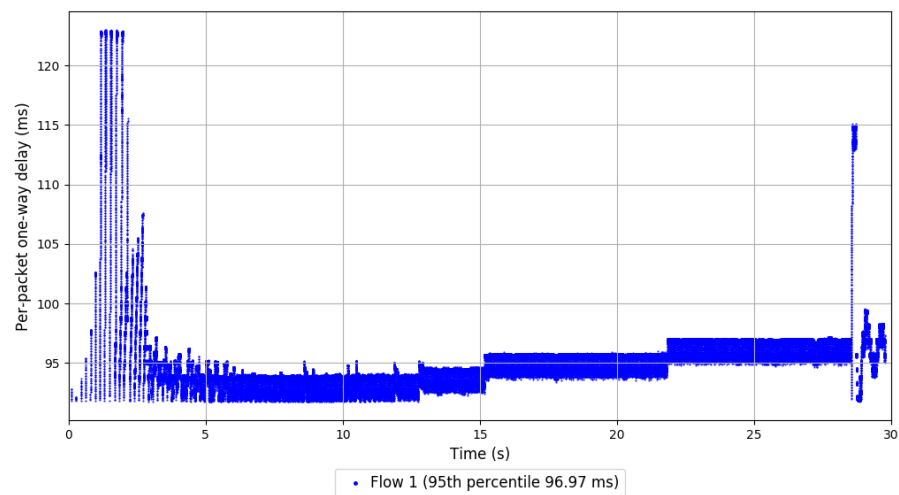
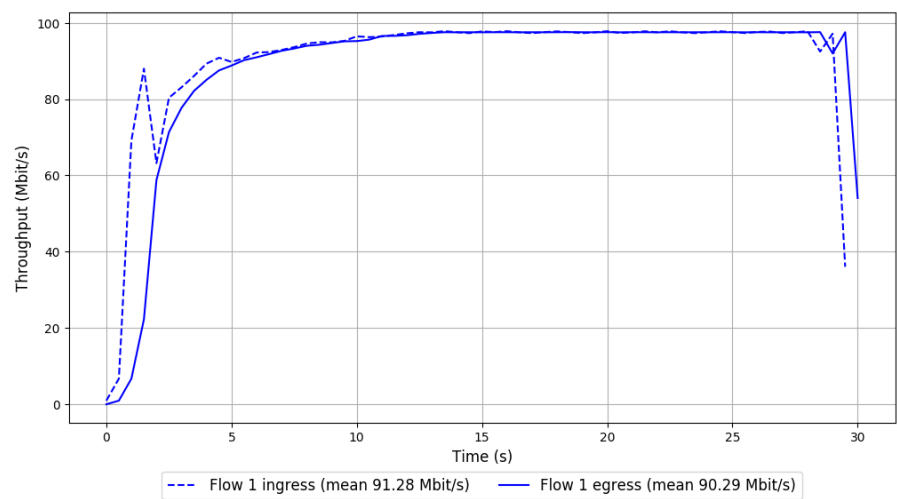
-- Flow 1:

Average throughput: 90.29 Mbit/s

95th percentile per-packet one-way delay: 96.971 ms

Loss rate: 1.09%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-06-18 11:45:53

End at: 2018-06-18 11:46:23

Local clock offset: -6.124 ms

Remote clock offset: 7.781 ms

Below is generated by plot.py at 2018-06-18 12:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.72 Mbit/s

95th percentile per-packet one-way delay: 90.734 ms

Loss rate: 0.95%

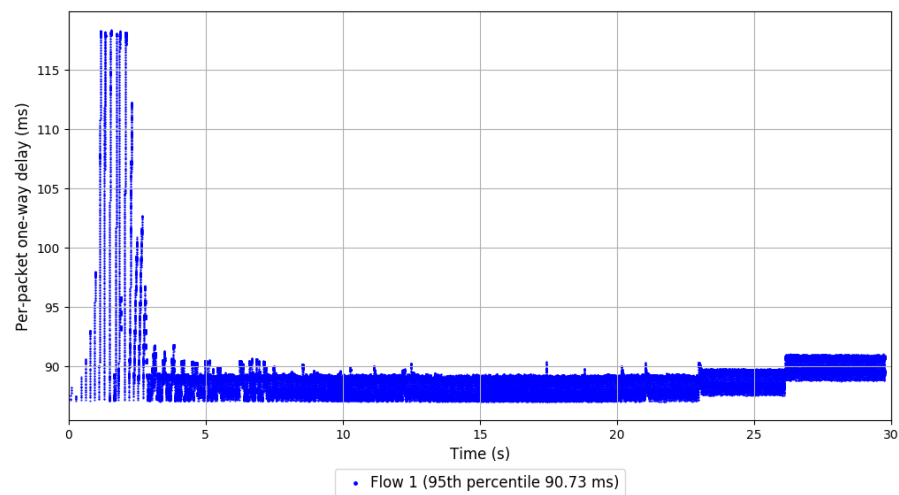
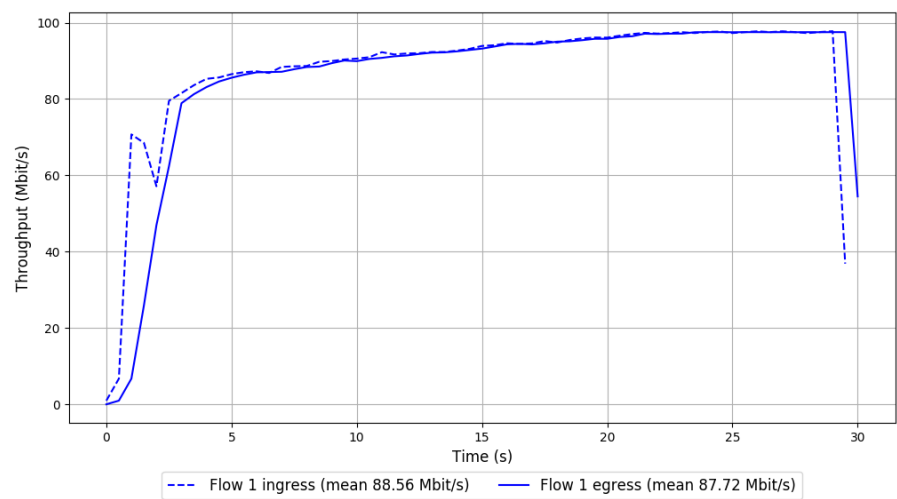
-- Flow 1:

Average throughput: 87.72 Mbit/s

95th percentile per-packet one-way delay: 90.734 ms

Loss rate: 0.95%

Run 10: Report of Indigo — Data Link

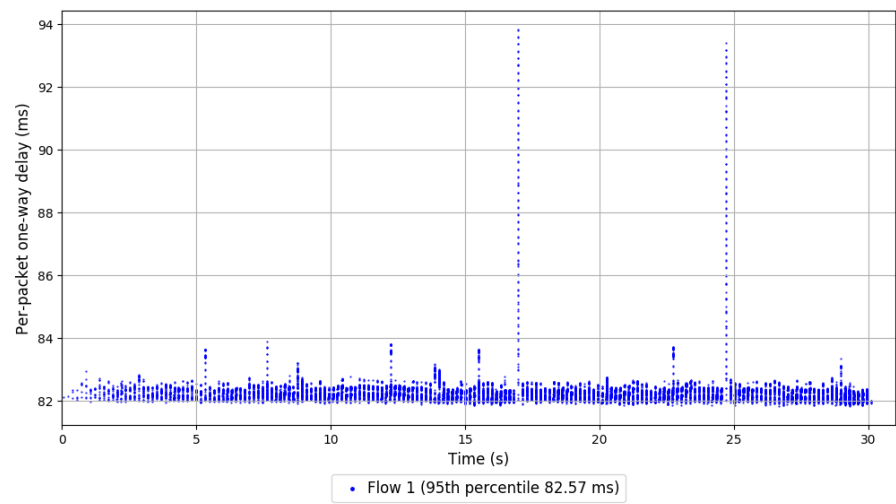
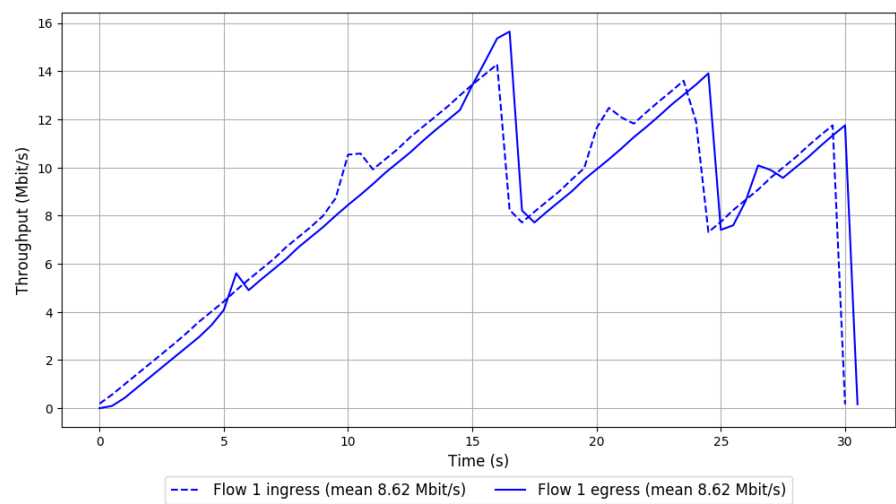


```
Run 1: Statistics of LEDBAT

Start at: 2018-06-18 08:47:15
End at: 2018-06-18 08:47:45
Local clock offset: 0.095 ms
Remote clock offset: 6.078 ms

# Below is generated by plot.py at 2018-06-18 12:04:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.62 Mbit/s
95th percentile per-packet one-way delay: 82.572 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 8.62 Mbit/s
95th percentile per-packet one-way delay: 82.572 ms
Loss rate: 0.01%
```

Run 1: Report of LEDBAT — Data Link

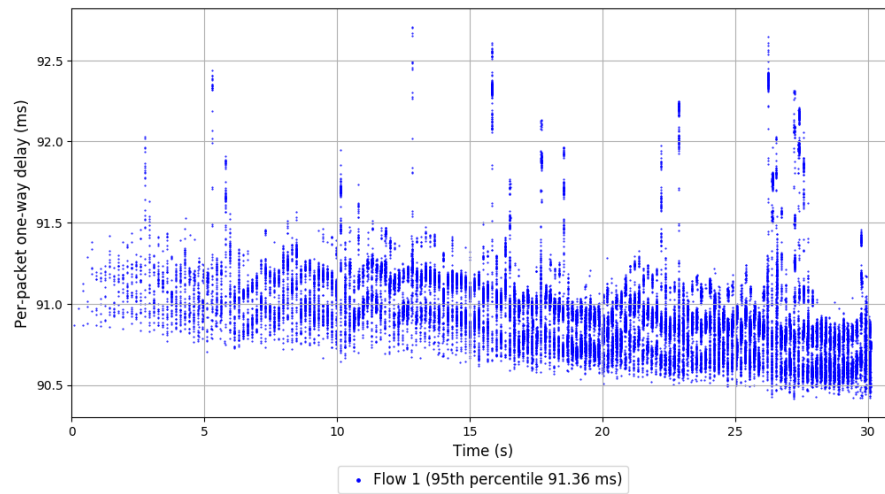
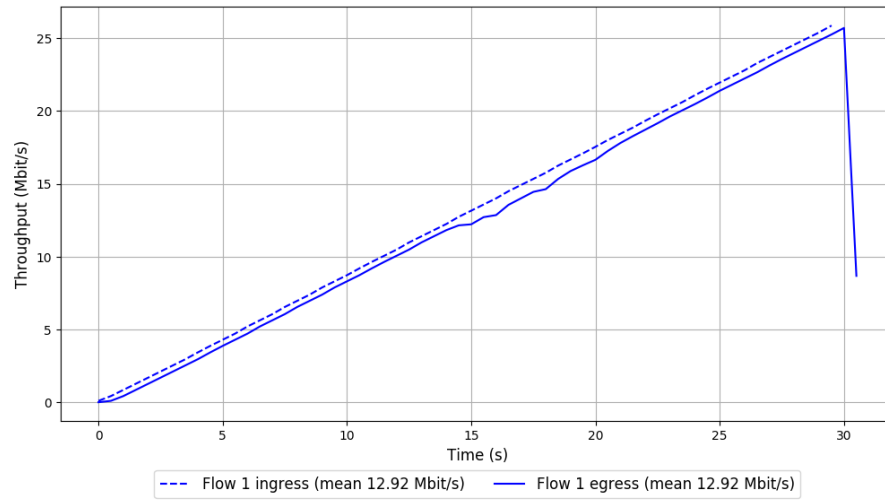


Run 2: Statistics of LEDBAT

Start at: 2018-06-18 09:05:53
End at: 2018-06-18 09:06:23
Local clock offset: -3.228 ms
Remote clock offset: 13.781 ms

Below is generated by plot.py at 2018-06-18 12:04:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.92 Mbit/s
95th percentile per-packet one-way delay: 91.361 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.92 Mbit/s
95th percentile per-packet one-way delay: 91.361 ms
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

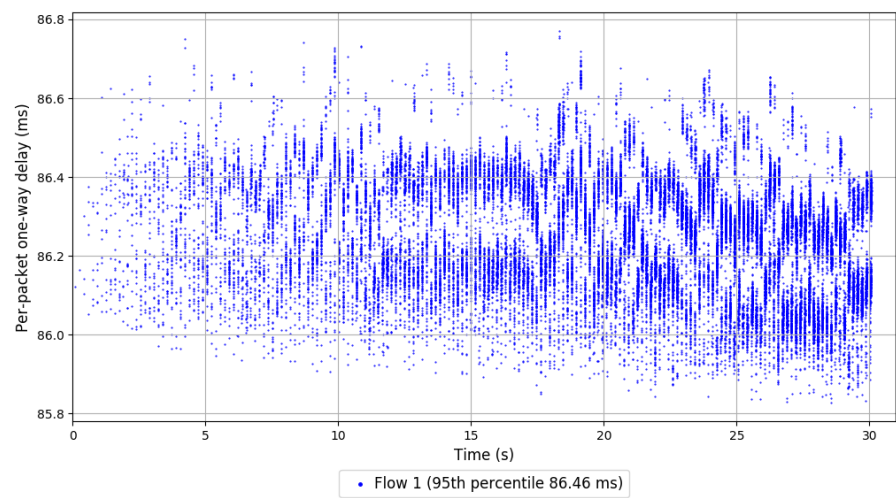
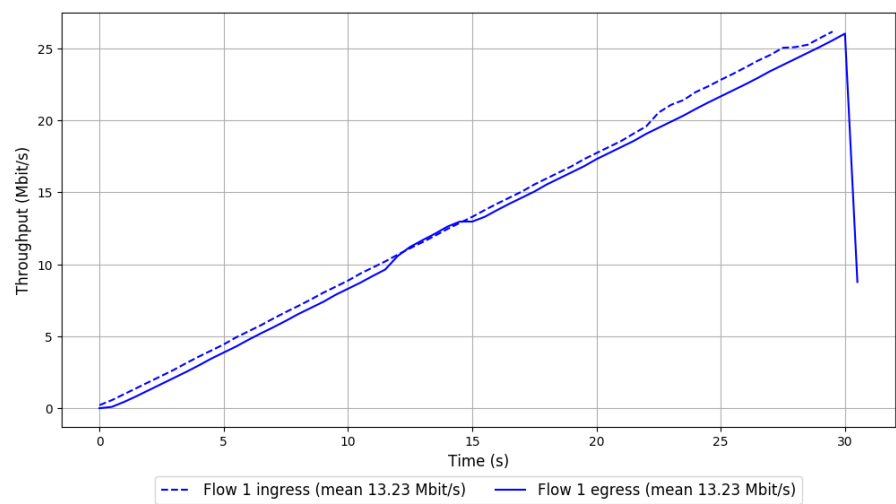


Run 3: Statistics of LEDBAT

Start at: 2018-06-18 09:24:33
End at: 2018-06-18 09:25:03
Local clock offset: -7.607 ms
Remote clock offset: 16.821 ms

Below is generated by plot.py at 2018-06-18 12:04:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.23 Mbit/s
95th percentile per-packet one-way delay: 86.464 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.23 Mbit/s
95th percentile per-packet one-way delay: 86.464 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

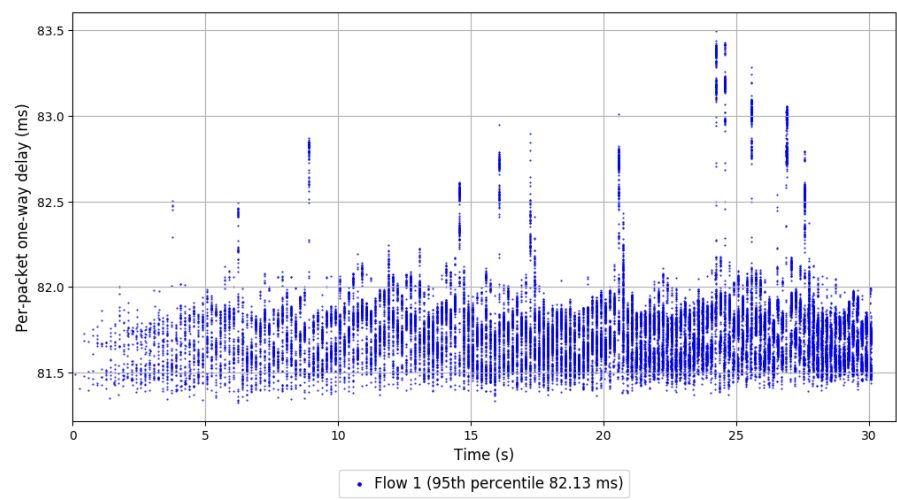
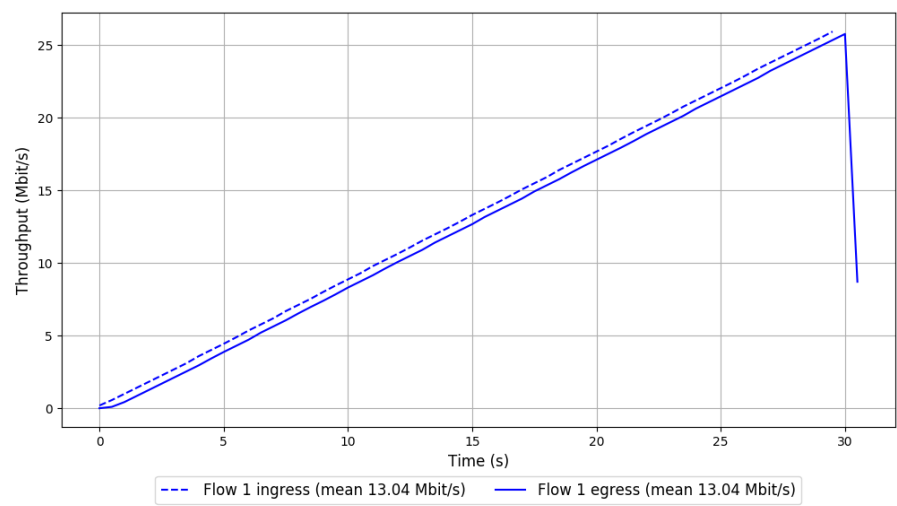


Run 4: Statistics of LEDBAT

Start at: 2018-06-18 09:43:13
End at: 2018-06-18 09:43:43
Local clock offset: -7.577 ms
Remote clock offset: 10.842 ms

Below is generated by plot.py at 2018-06-18 12:04:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.04 Mbit/s
95th percentile per-packet one-way delay: 82.132 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.04 Mbit/s
95th percentile per-packet one-way delay: 82.132 ms
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

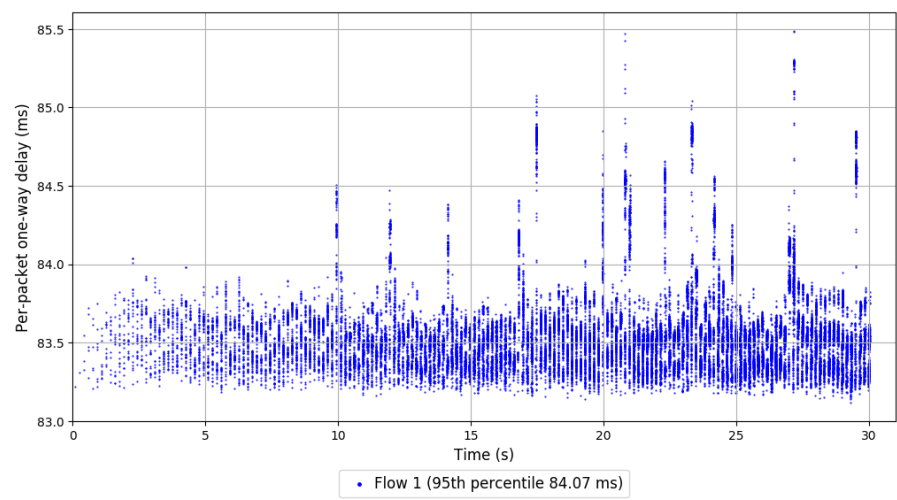
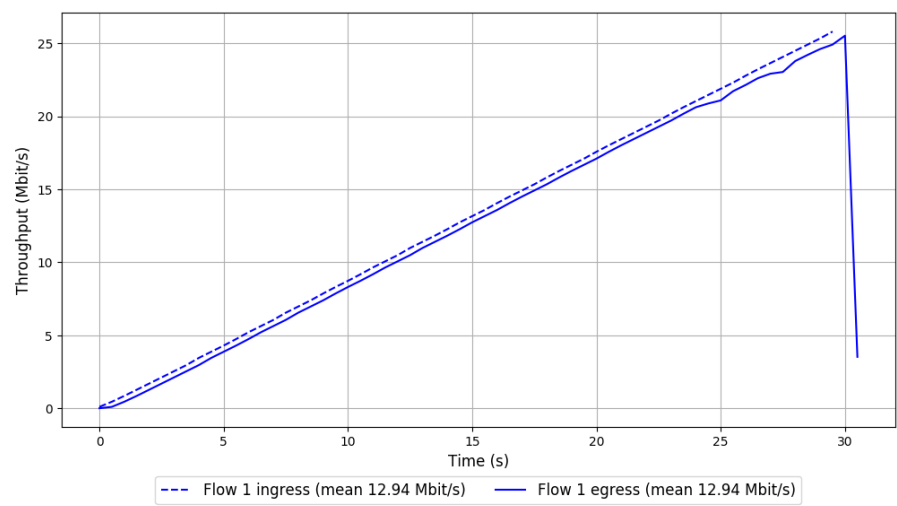


Run 5: Statistics of LEDBAT

Start at: 2018-06-18 10:01:54
End at: 2018-06-18 10:02:24
Local clock offset: -7.834 ms
Remote clock offset: 11.451 ms

Below is generated by plot.py at 2018-06-18 12:04:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.94 Mbit/s
95th percentile per-packet one-way delay: 84.069 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.94 Mbit/s
95th percentile per-packet one-way delay: 84.069 ms
Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-06-18 10:20:33

End at: 2018-06-18 10:21:03

Local clock offset: -2.873 ms

Remote clock offset: 7.255 ms

Below is generated by plot.py at 2018-06-18 12:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.08 Mbit/s

95th percentile per-packet one-way delay: 83.002 ms

Loss rate: 0.00%

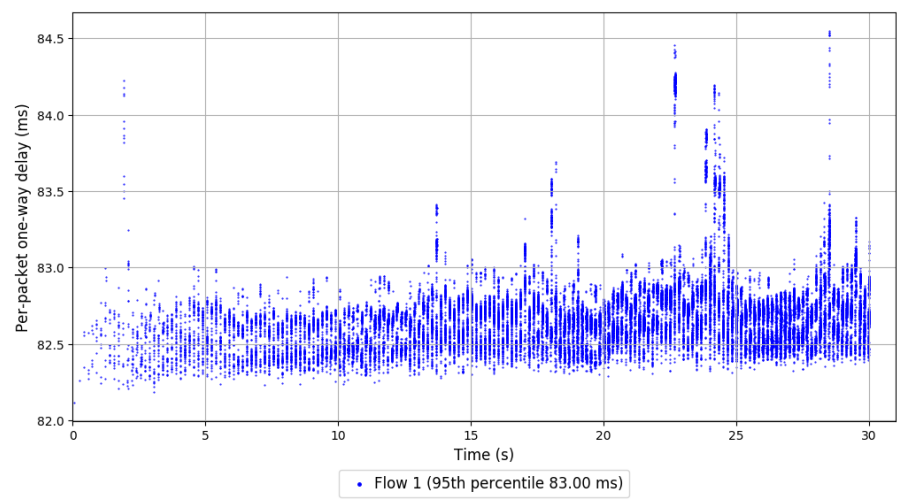
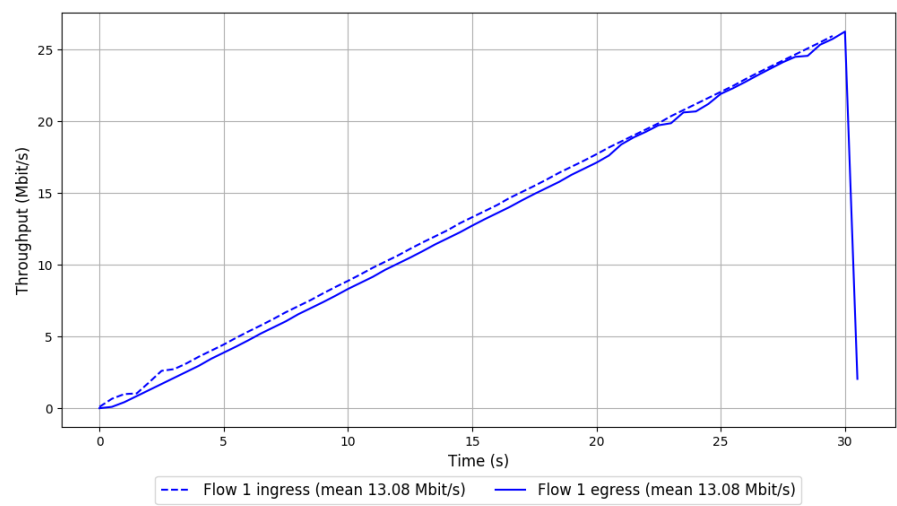
-- Flow 1:

Average throughput: 13.08 Mbit/s

95th percentile per-packet one-way delay: 83.002 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-06-18 10:39:11

End at: 2018-06-18 10:39:41

Local clock offset: -2.208 ms

Remote clock offset: 4.168 ms

Below is generated by plot.py at 2018-06-18 12:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.60 Mbit/s

95th percentile per-packet one-way delay: 87.194 ms

Loss rate: 0.05%

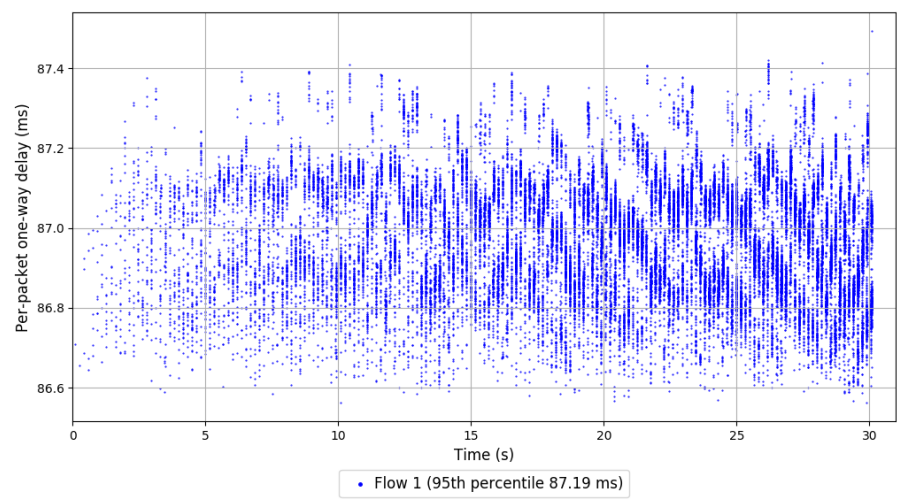
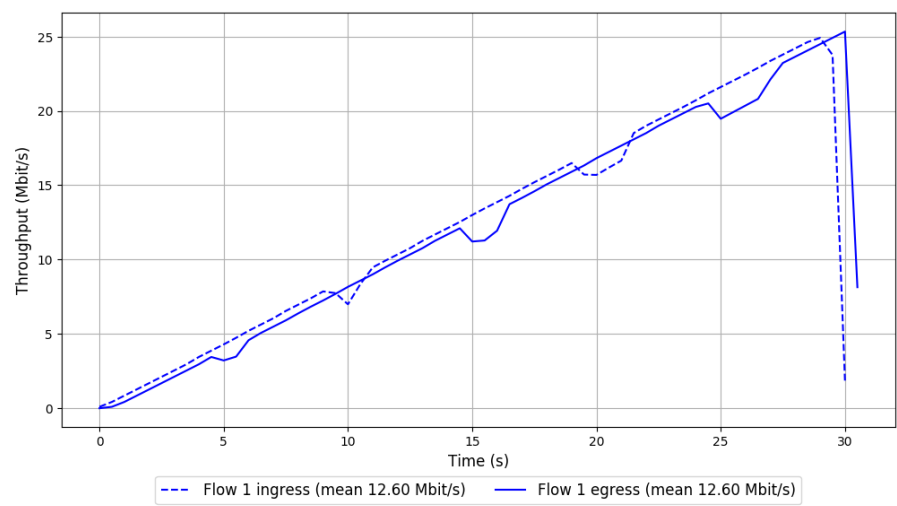
-- Flow 1:

Average throughput: 12.60 Mbit/s

95th percentile per-packet one-way delay: 87.194 ms

Loss rate: 0.05%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-06-18 10:57:55

End at: 2018-06-18 10:58:25

Local clock offset: -2.462 ms

Remote clock offset: 5.209 ms

Below is generated by plot.py at 2018-06-18 12:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.71 Mbit/s

95th percentile per-packet one-way delay: 79.902 ms

Loss rate: 0.00%

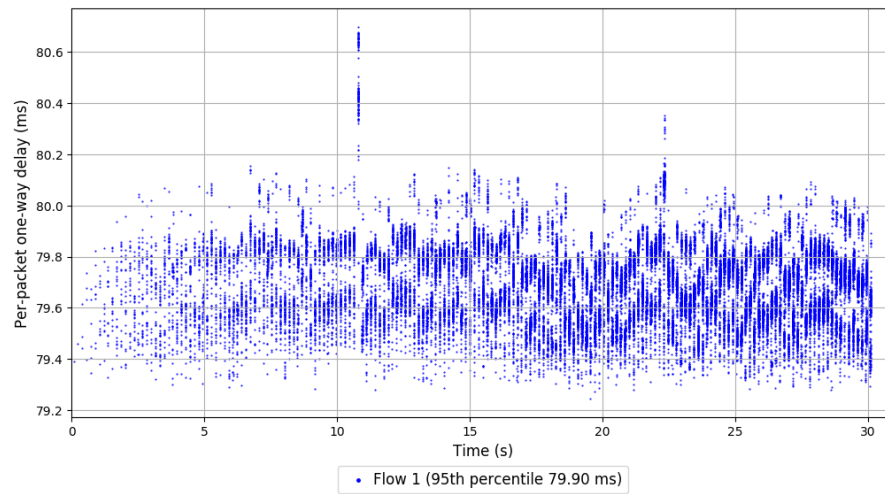
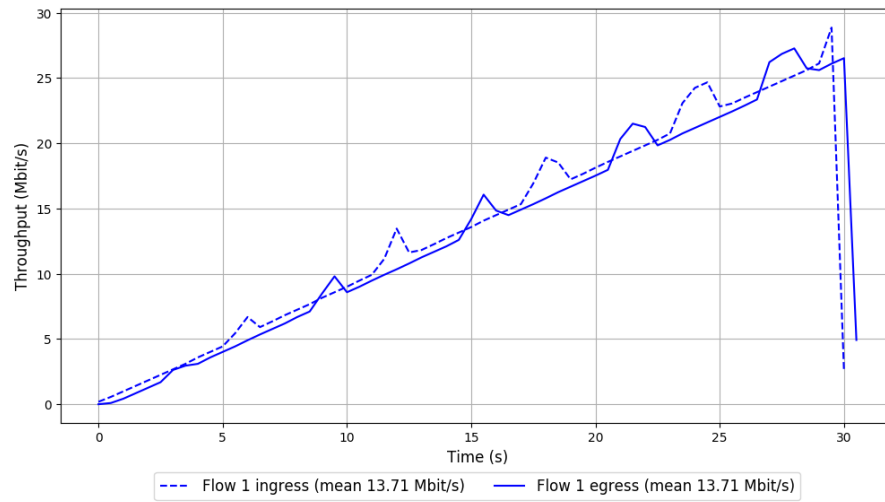
-- Flow 1:

Average throughput: 13.71 Mbit/s

95th percentile per-packet one-way delay: 79.902 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link

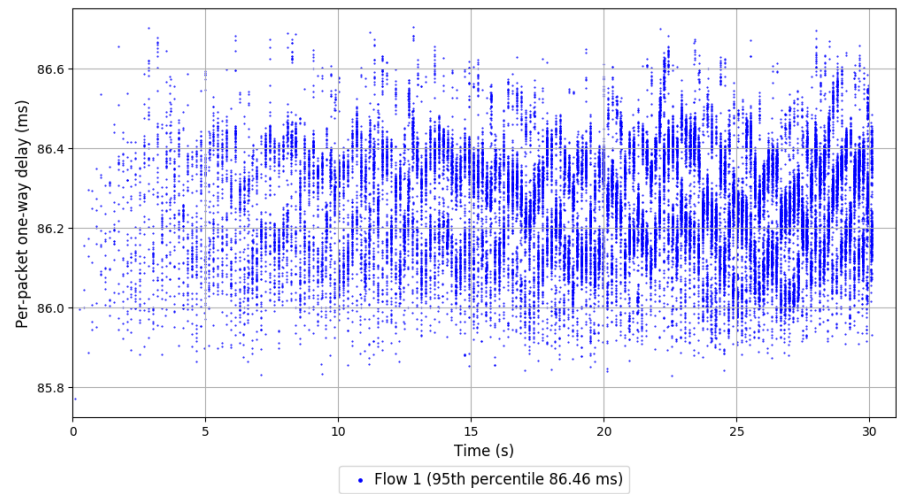
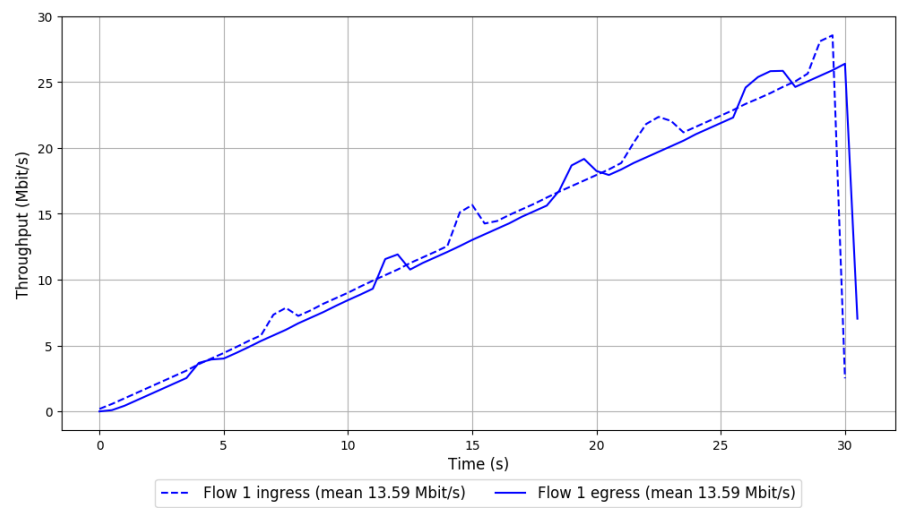


Run 9: Statistics of LEDBAT

Start at: 2018-06-18 11:16:35
End at: 2018-06-18 11:17:05
Local clock offset: -2.826 ms
Remote clock offset: 11.543 ms

Below is generated by plot.py at 2018-06-18 12:04:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.59 Mbit/s
95th percentile per-packet one-way delay: 86.462 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.59 Mbit/s
95th percentile per-packet one-way delay: 86.462 ms
Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-06-18 11:35:20

End at: 2018-06-18 11:35:50

Local clock offset: -3.316 ms

Remote clock offset: 4.263 ms

Below is generated by plot.py at 2018-06-18 12:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.73 Mbit/s

95th percentile per-packet one-way delay: 80.519 ms

Loss rate: 0.00%

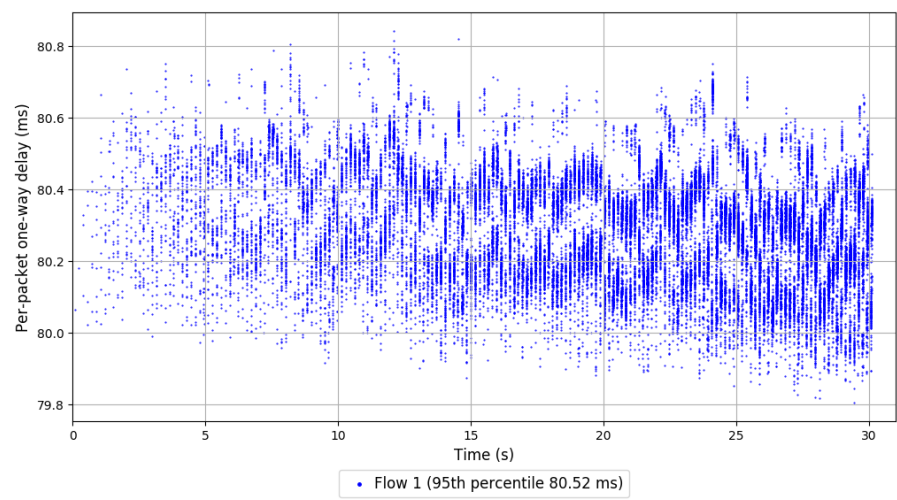
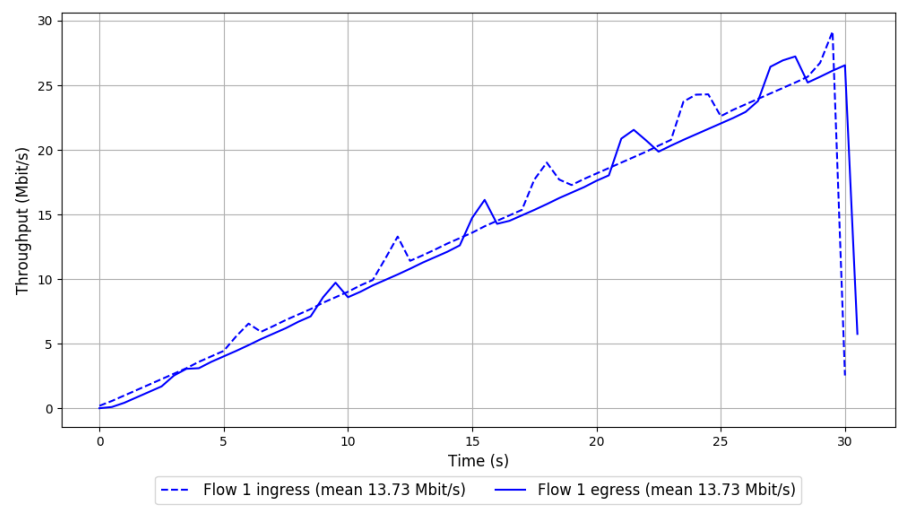
-- Flow 1:

Average throughput: 13.73 Mbit/s

95th percentile per-packet one-way delay: 80.519 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

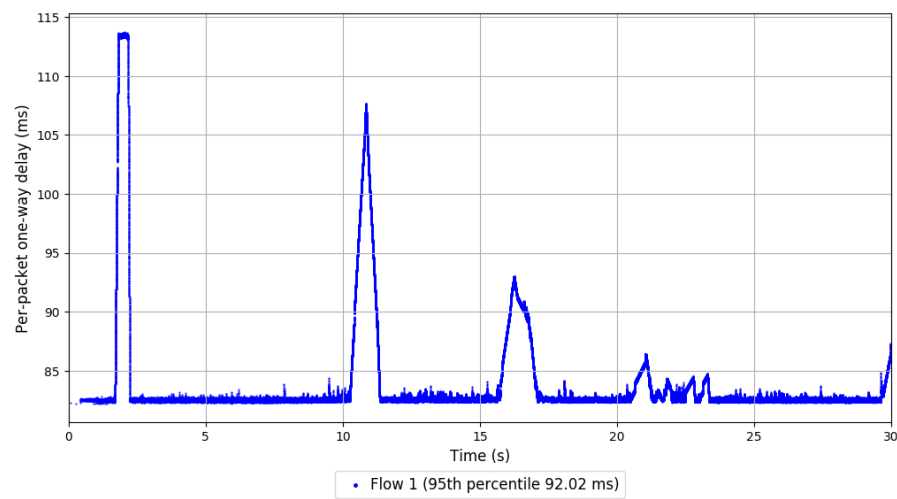
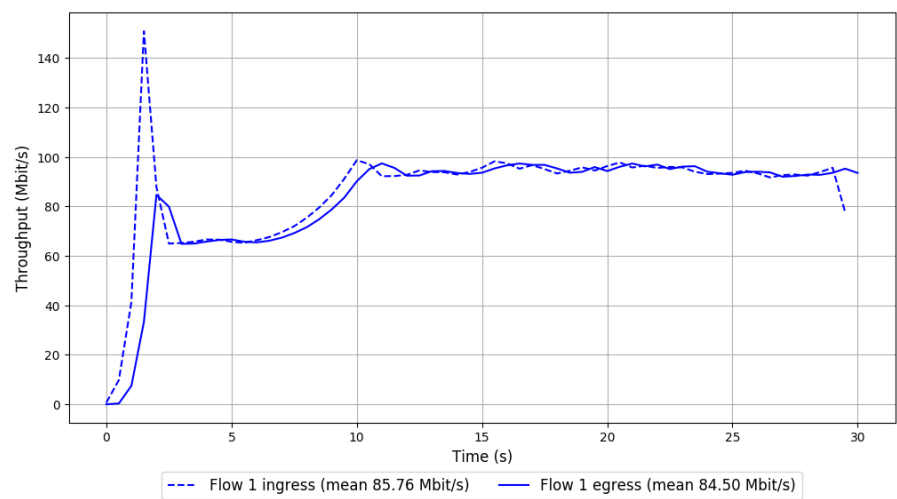


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-06-18 08:51:53
End at: 2018-06-18 08:52:23
Local clock offset: -1.066 ms
Remote clock offset: 6.021 ms

# Below is generated by plot.py at 2018-06-18 12:04:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.50 Mbit/s
95th percentile per-packet one-way delay: 92.021 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 84.50 Mbit/s
95th percentile per-packet one-way delay: 92.021 ms
Loss rate: 1.45%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-06-18 09:10:32

End at: 2018-06-18 09:11:02

Local clock offset: -4.966 ms

Remote clock offset: 14.016 ms

Below is generated by plot.py at 2018-06-18 12:04:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.75 Mbit/s

95th percentile per-packet one-way delay: 100.190 ms

Loss rate: 1.39%

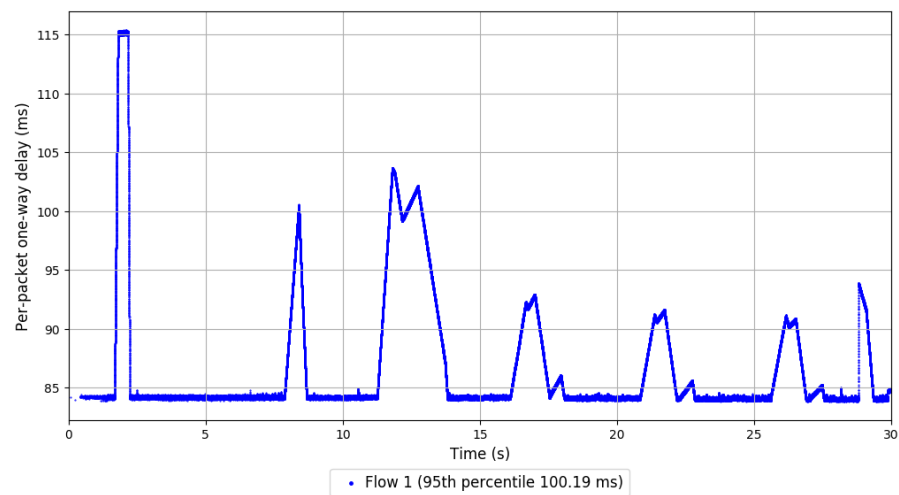
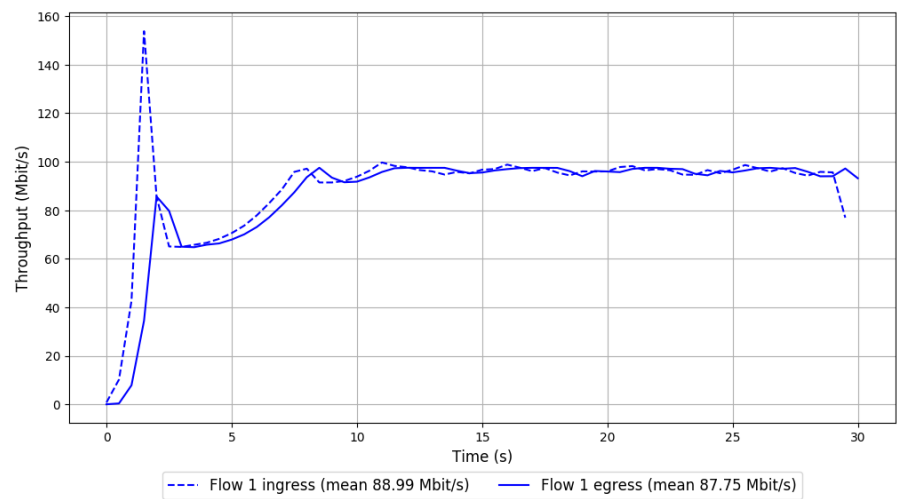
-- Flow 1:

Average throughput: 87.75 Mbit/s

95th percentile per-packet one-way delay: 100.190 ms

Loss rate: 1.39%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-06-18 09:29:12

End at: 2018-06-18 09:29:42

Local clock offset: -8.001 ms

Remote clock offset: 16.293 ms

Below is generated by plot.py at 2018-06-18 12:04:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.17 Mbit/s

95th percentile per-packet one-way delay: 95.937 ms

Loss rate: 1.40%

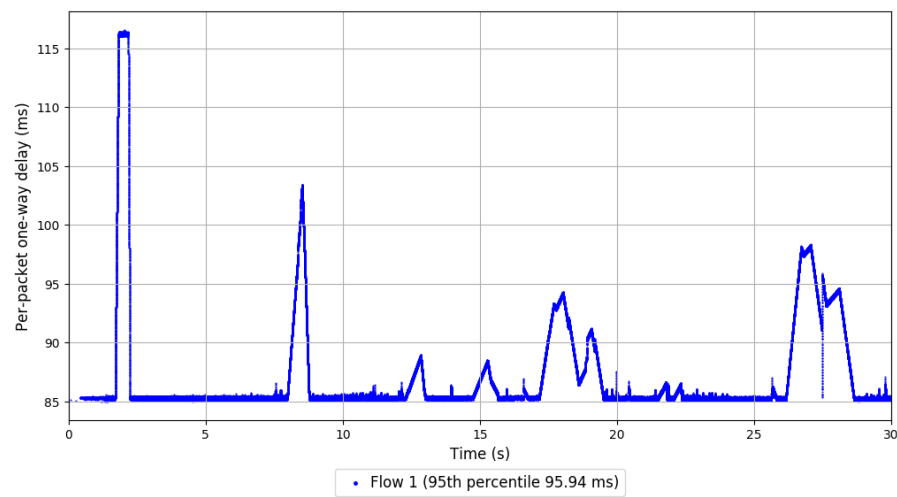
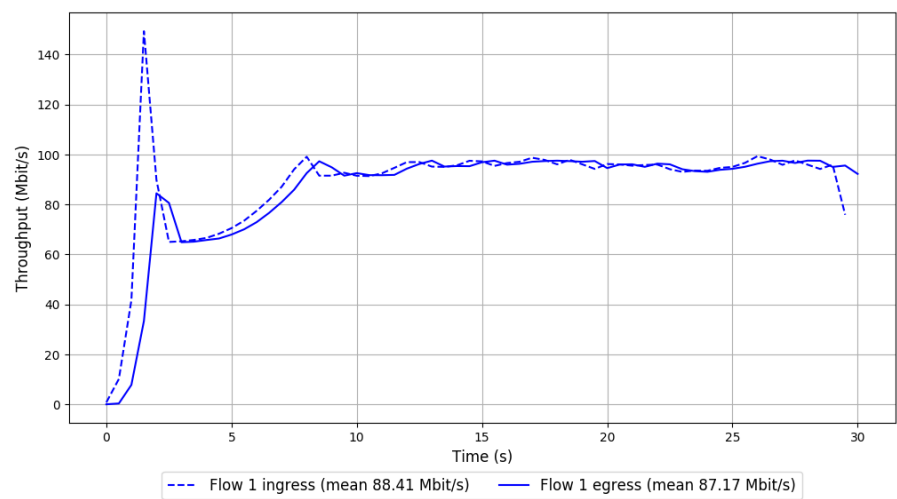
-- Flow 1:

Average throughput: 87.17 Mbit/s

95th percentile per-packet one-way delay: 95.937 ms

Loss rate: 1.40%

Run 3: Report of PCC-Allegro — Data Link

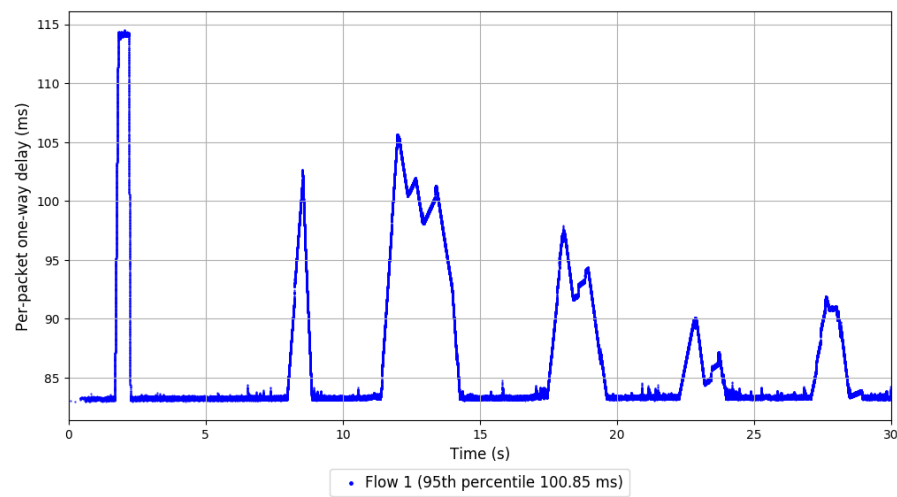
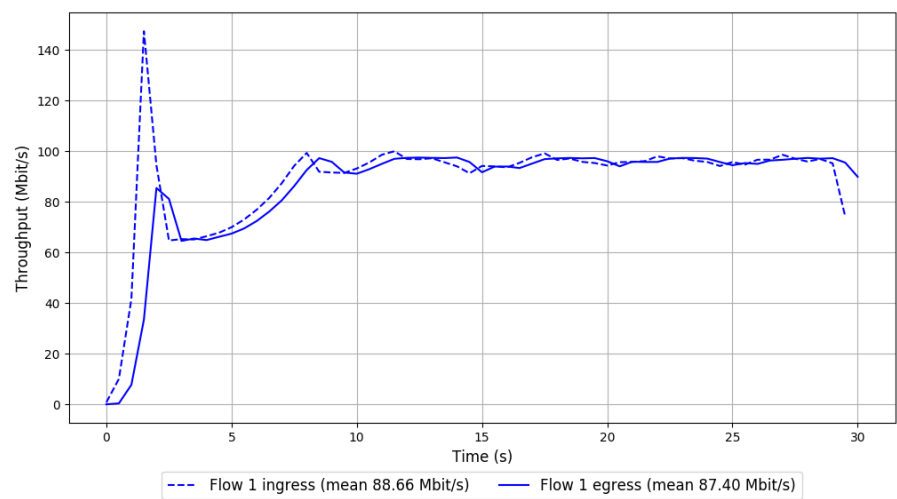


Run 4: Statistics of PCC-Allegro

Start at: 2018-06-18 09:47:51
End at: 2018-06-18 09:48:21
Local clock offset: -7.499 ms
Remote clock offset: 14.418 ms

Below is generated by plot.py at 2018-06-18 12:05:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.40 Mbit/s
95th percentile per-packet one-way delay: 100.850 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 87.40 Mbit/s
95th percentile per-packet one-way delay: 100.850 ms
Loss rate: 1.43%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-06-18 10:06:33

End at: 2018-06-18 10:07:03

Local clock offset: -6.539 ms

Remote clock offset: 16.643 ms

Below is generated by plot.py at 2018-06-18 12:05:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.57 Mbit/s

95th percentile per-packet one-way delay: 106.775 ms

Loss rate: 1.52%

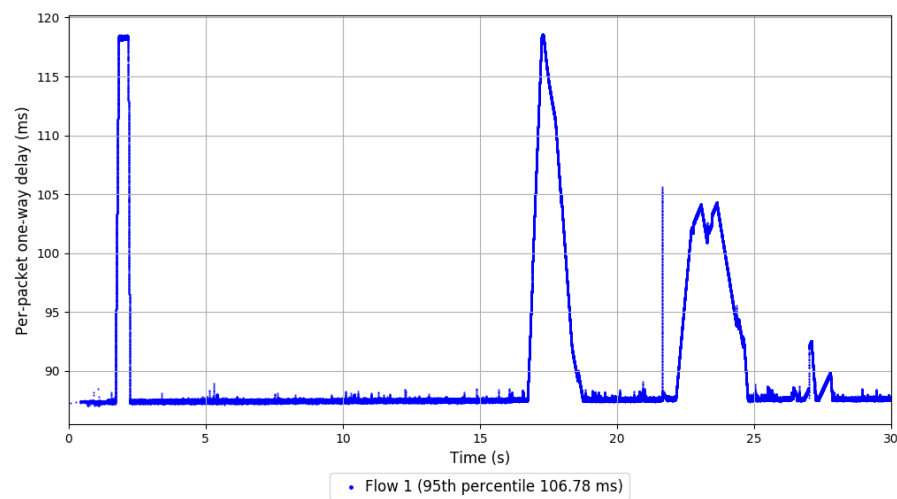
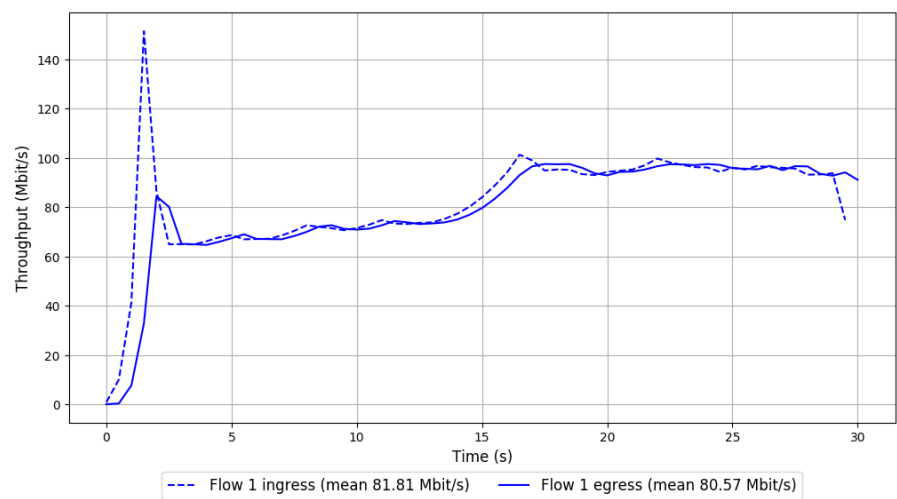
-- Flow 1:

Average throughput: 80.57 Mbit/s

95th percentile per-packet one-way delay: 106.775 ms

Loss rate: 1.52%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-06-18 10:25:10

End at: 2018-06-18 10:25:40

Local clock offset: -2.382 ms

Remote clock offset: 5.337 ms

Below is generated by plot.py at 2018-06-18 12:05:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.39 Mbit/s

95th percentile per-packet one-way delay: 98.839 ms

Loss rate: 1.43%

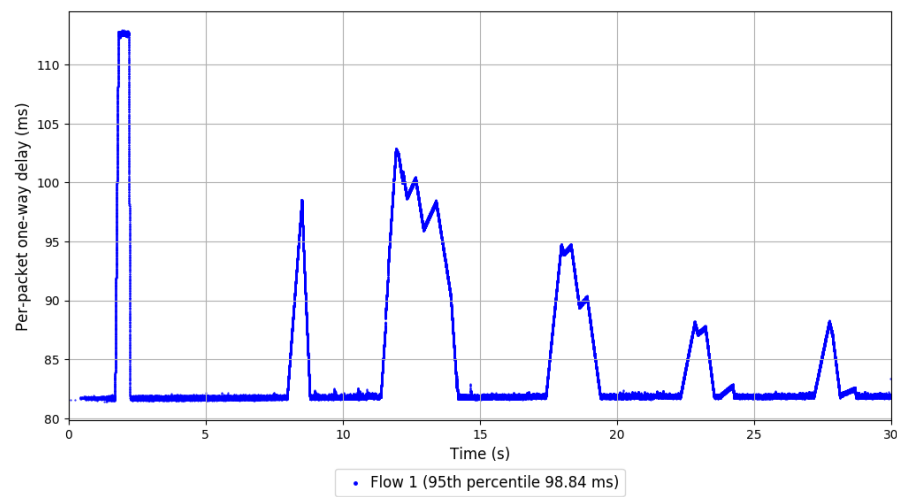
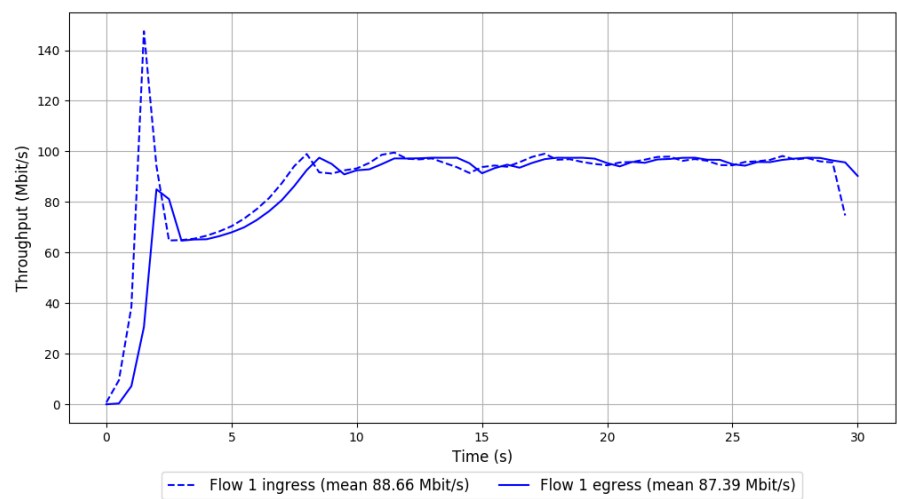
-- Flow 1:

Average throughput: 87.39 Mbit/s

95th percentile per-packet one-way delay: 98.839 ms

Loss rate: 1.43%

Run 6: Report of PCC-Allegro — Data Link

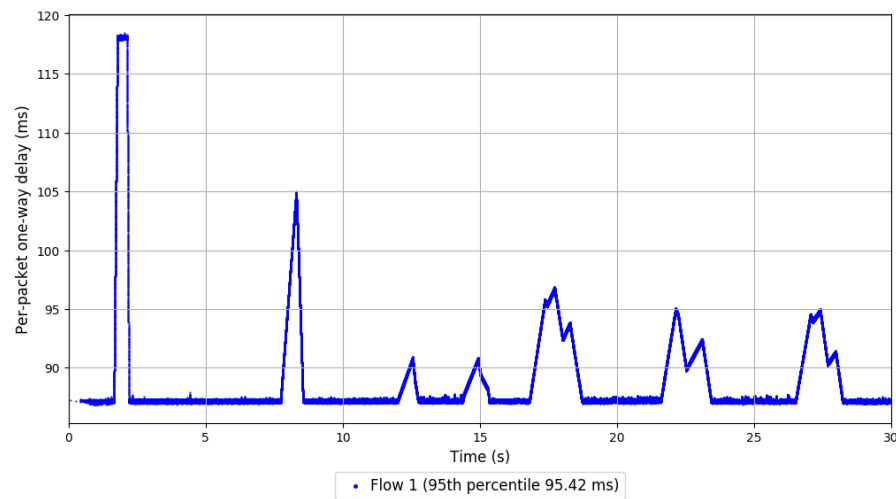
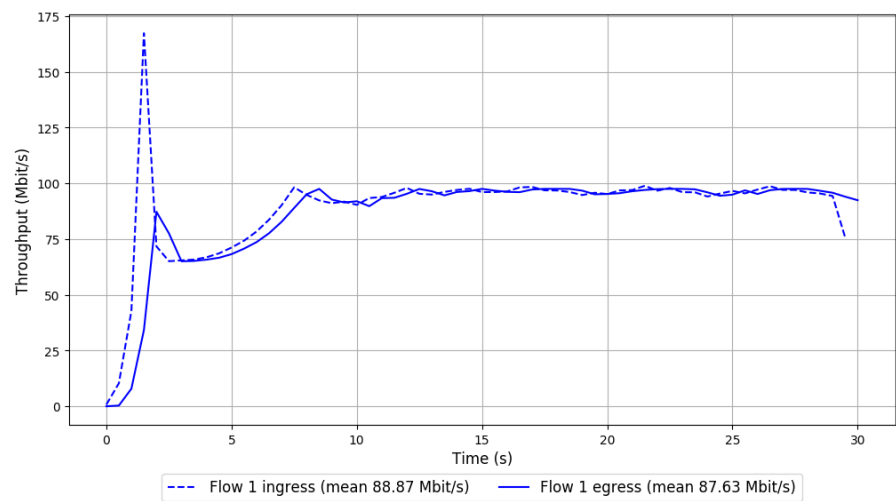


Run 7: Statistics of PCC-Allegro

Start at: 2018-06-18 10:43:47
End at: 2018-06-18 10:44:17
Local clock offset: -2.452 ms
Remote clock offset: 10.327 ms

Below is generated by plot.py at 2018-06-18 12:05:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.63 Mbit/s
95th percentile per-packet one-way delay: 95.418 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 87.63 Mbit/s
95th percentile per-packet one-way delay: 95.418 ms
Loss rate: 1.40%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-06-18 11:02:34

End at: 2018-06-18 11:03:04

Local clock offset: -2.476 ms

Remote clock offset: 6.299 ms

Below is generated by plot.py at 2018-06-18 12:05:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.21 Mbit/s

95th percentile per-packet one-way delay: 99.165 ms

Loss rate: 1.42%

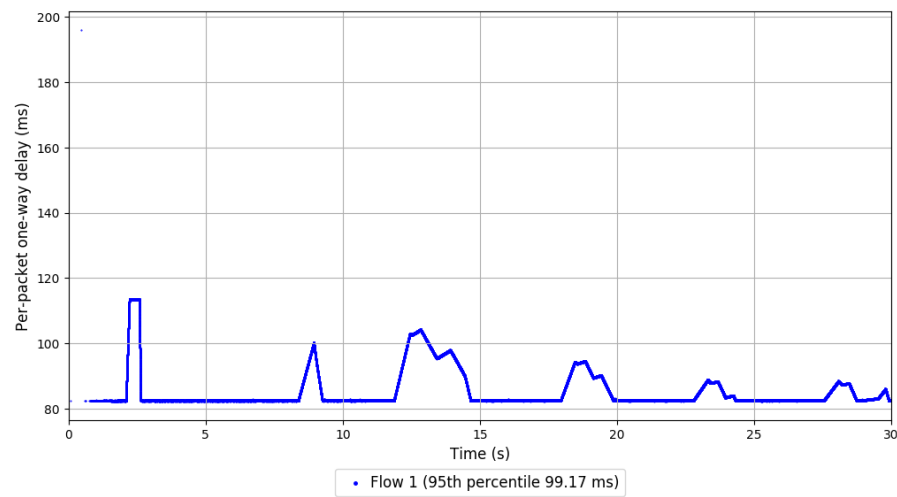
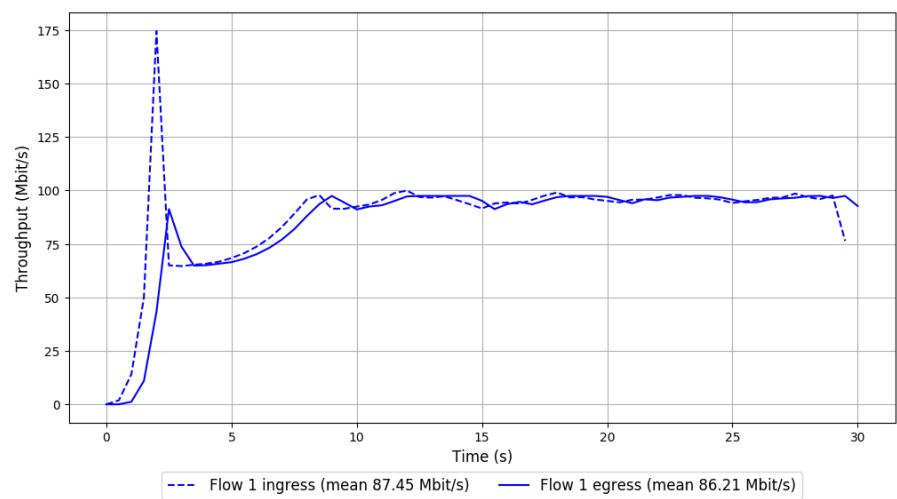
-- Flow 1:

Average throughput: 86.21 Mbit/s

95th percentile per-packet one-way delay: 99.165 ms

Loss rate: 1.42%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-06-18 11:21:15

End at: 2018-06-18 11:21:45

Local clock offset: -2.94 ms

Remote clock offset: 8.476 ms

Below is generated by plot.py at 2018-06-18 12:05:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.31 Mbit/s

95th percentile per-packet one-way delay: 97.404 ms

Loss rate: 1.47%

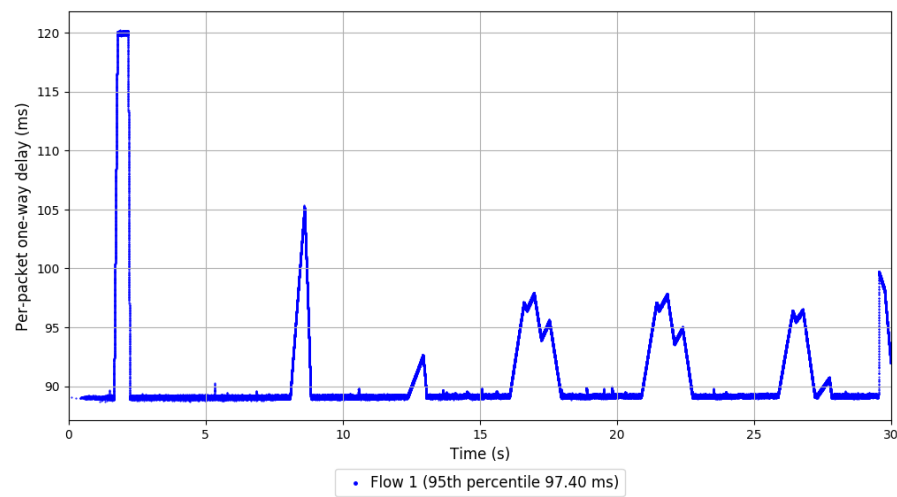
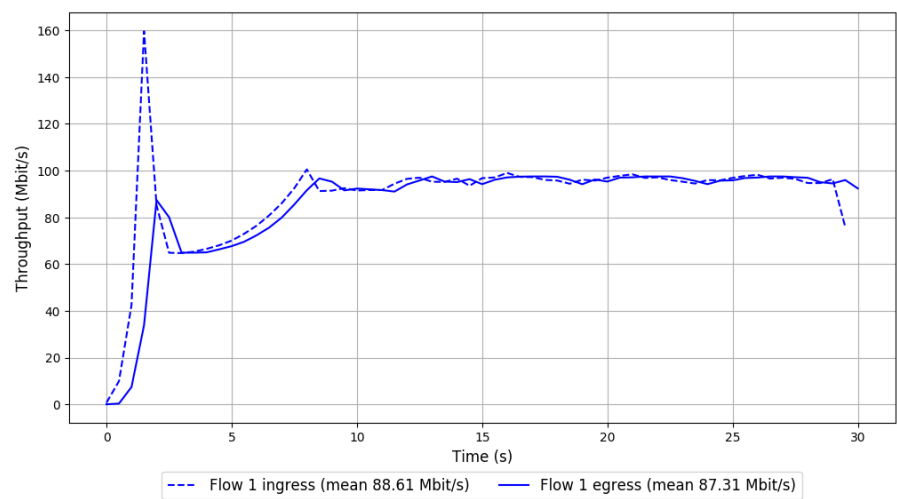
-- Flow 1:

Average throughput: 87.31 Mbit/s

95th percentile per-packet one-way delay: 97.404 ms

Loss rate: 1.47%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-06-18 11:39:59

End at: 2018-06-18 11:40:29

Local clock offset: -4.875 ms

Remote clock offset: 9.178 ms

Below is generated by plot.py at 2018-06-18 12:05:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.77 Mbit/s

95th percentile per-packet one-way delay: 103.331 ms

Loss rate: 1.37%

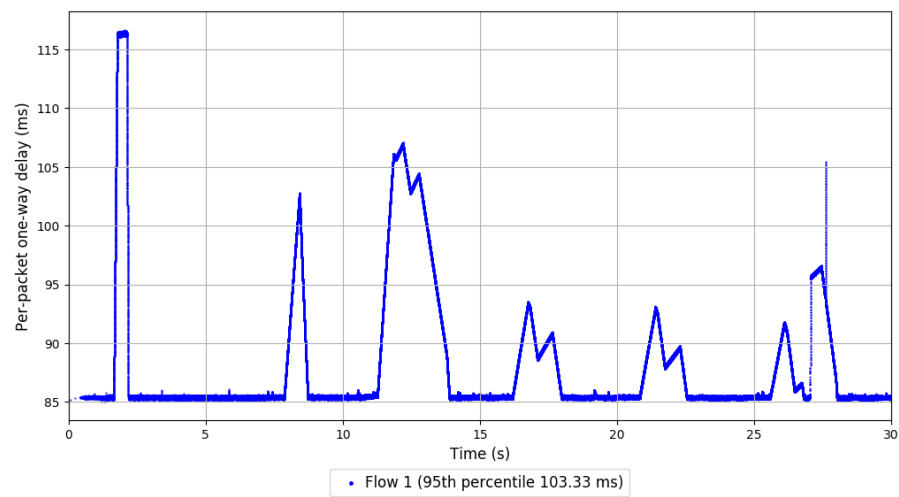
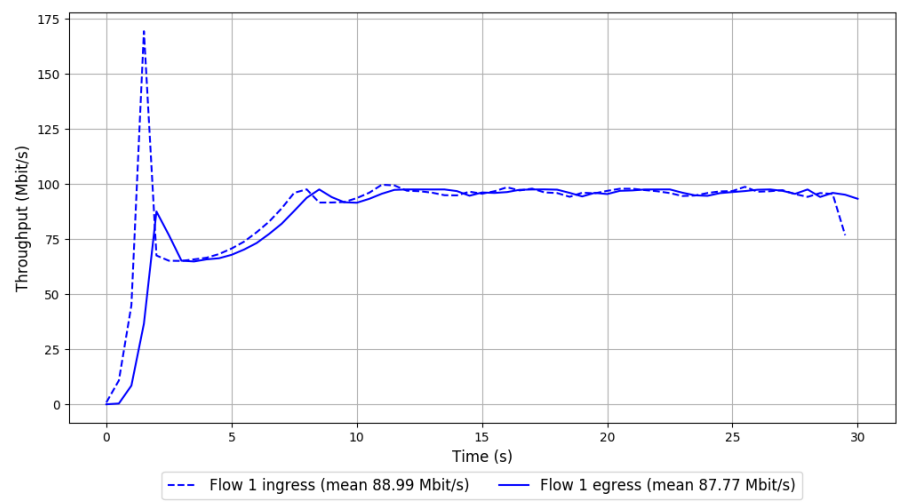
-- Flow 1:

Average throughput: 87.77 Mbit/s

95th percentile per-packet one-way delay: 103.331 ms

Loss rate: 1.37%

Run 10: Report of PCC-Allegro — Data Link

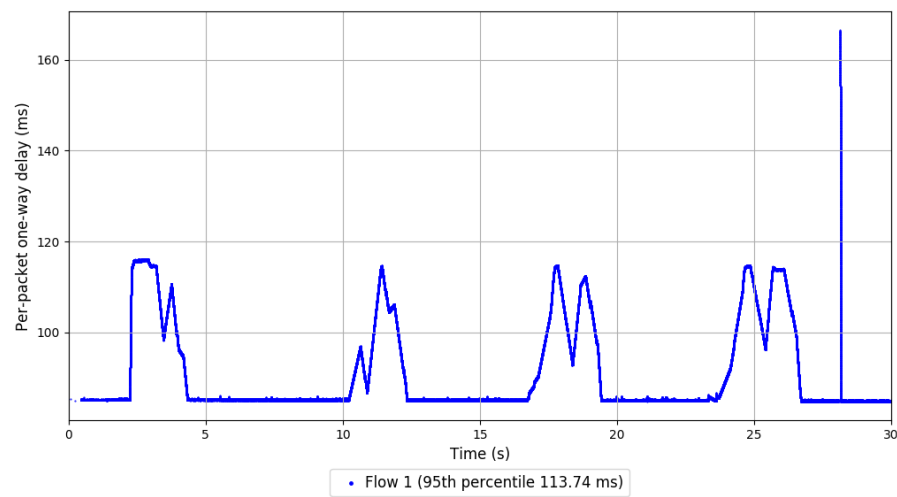
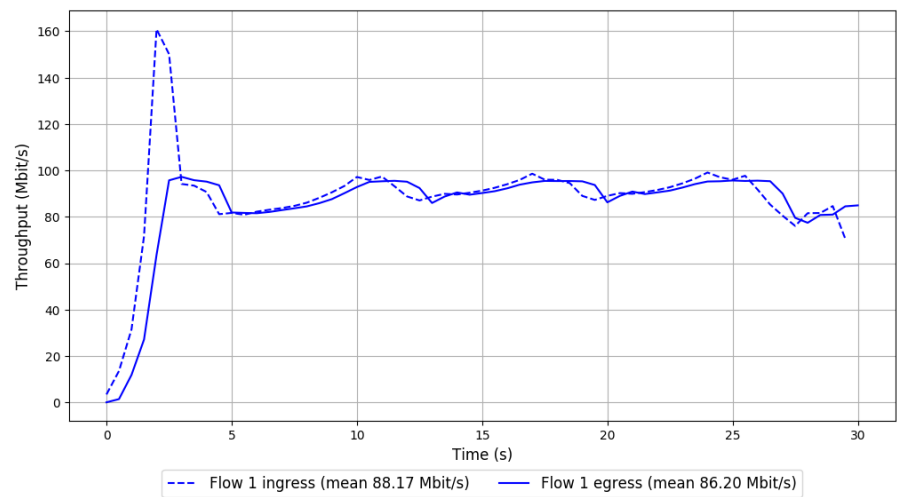


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-18 09:03:30
End at: 2018-06-18 09:04:00
Local clock offset: -2.383 ms
Remote clock offset: 11.657 ms

# Below is generated by plot.py at 2018-06-18 12:06:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.20 Mbit/s
95th percentile per-packet one-way delay: 113.742 ms
Loss rate: 2.23%
-- Flow 1:
Average throughput: 86.20 Mbit/s
95th percentile per-packet one-way delay: 113.742 ms
Loss rate: 2.23%
```

Run 1: Report of PCC-Expr — Data Link

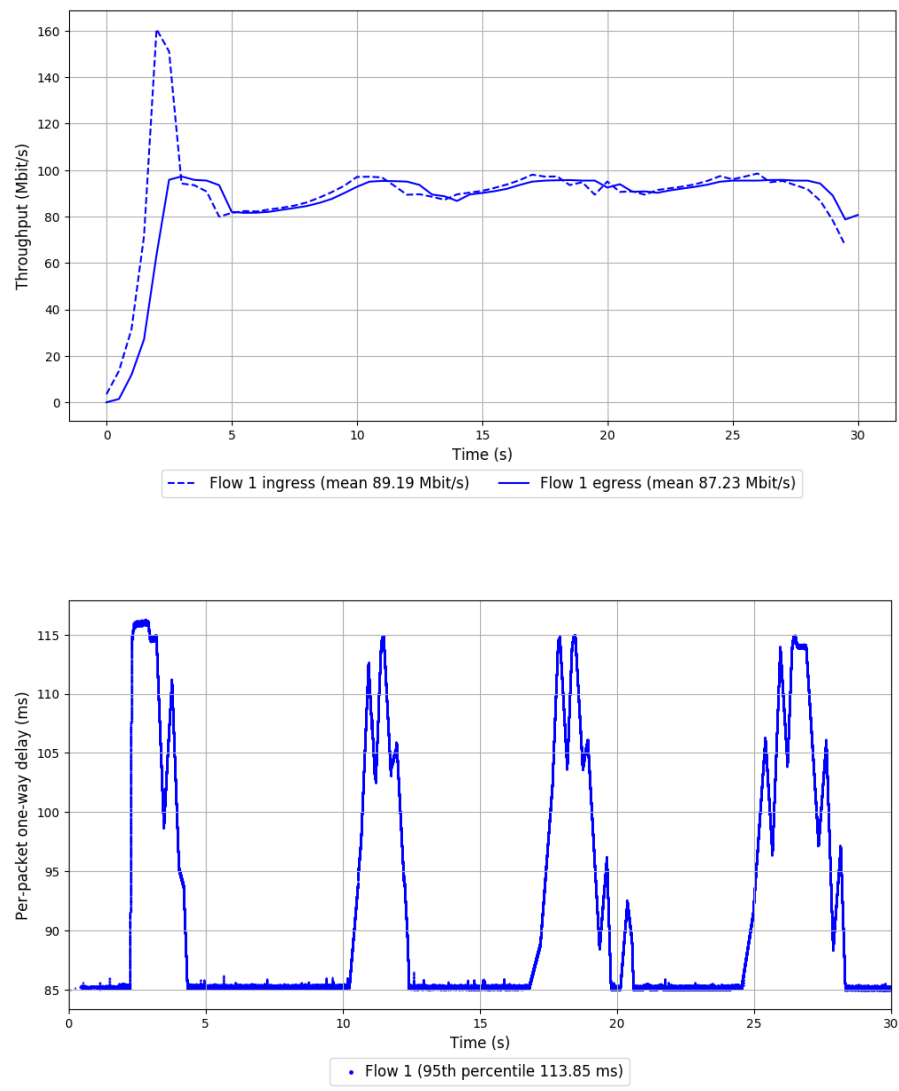


Run 2: Statistics of PCC-Expr

Start at: 2018-06-18 09:22:09
End at: 2018-06-18 09:22:39
Local clock offset: -7.317 ms
Remote clock offset: 15.484 ms

Below is generated by plot.py at 2018-06-18 12:06:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.23 Mbit/s
95th percentile per-packet one-way delay: 113.851 ms
Loss rate: 2.21%
-- Flow 1:
Average throughput: 87.23 Mbit/s
95th percentile per-packet one-way delay: 113.851 ms
Loss rate: 2.21%

Run 2: Report of PCC-Expr — Data Link

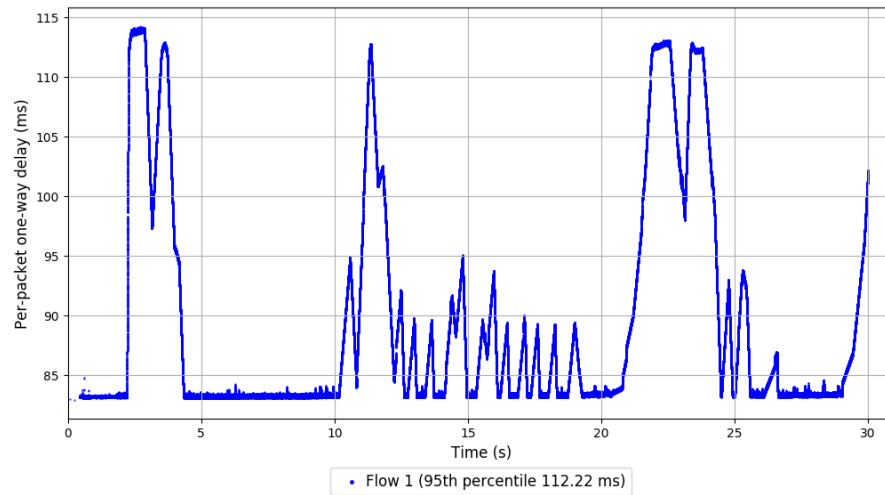
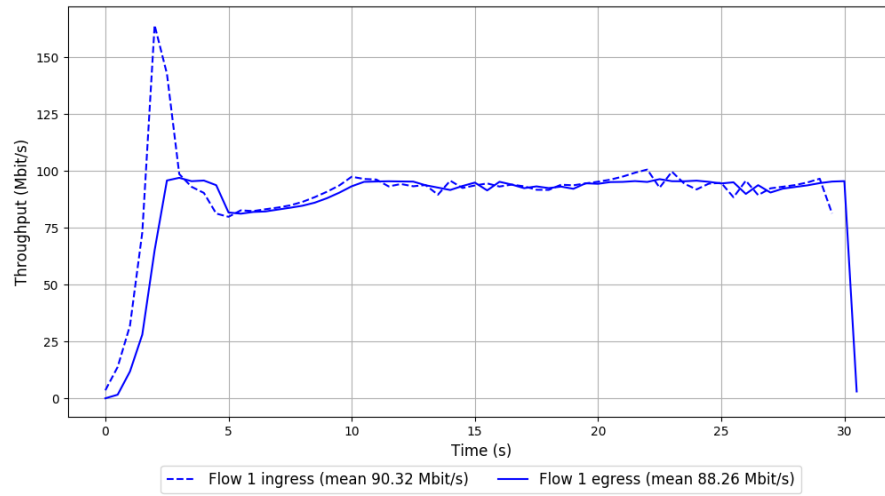


Run 3: Statistics of PCC-Expr

Start at: 2018-06-18 09:40:50
End at: 2018-06-18 09:41:20
Local clock offset: -7.697 ms
Remote clock offset: 15.034 ms

Below is generated by plot.py at 2018-06-18 12:06:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.26 Mbit/s
95th percentile per-packet one-way delay: 112.224 ms
Loss rate: 2.22%
-- Flow 1:
Average throughput: 88.26 Mbit/s
95th percentile per-packet one-way delay: 112.224 ms
Loss rate: 2.22%

Run 3: Report of PCC-Expr — Data Link

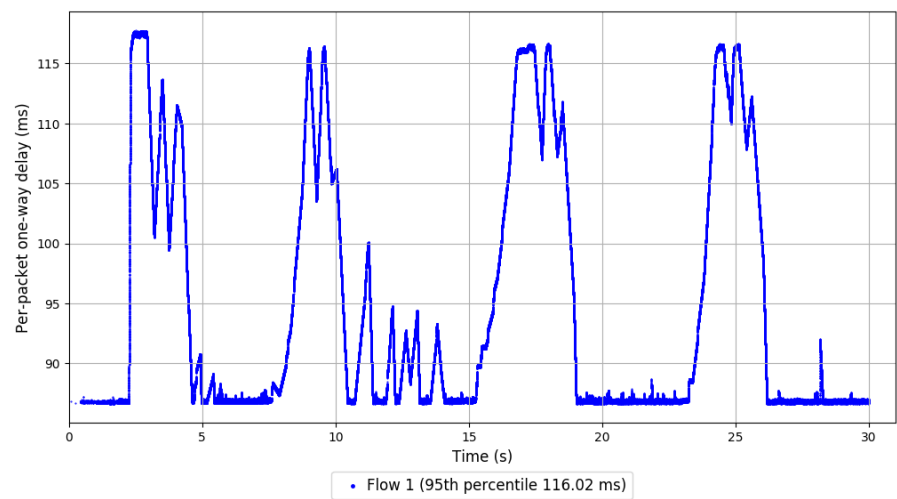
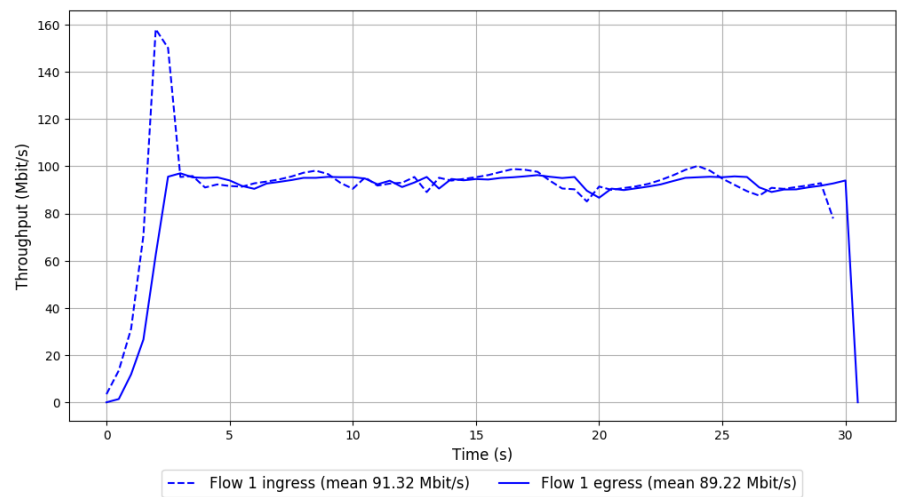


Run 4: Statistics of PCC-Expr

Start at: 2018-06-18 09:59:30
End at: 2018-06-18 10:00:00
Local clock offset: -7.722 ms
Remote clock offset: 15.445 ms

Below is generated by plot.py at 2018-06-18 12:07:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.22 Mbit/s
95th percentile per-packet one-way delay: 116.017 ms
Loss rate: 2.30%
-- Flow 1:
Average throughput: 89.22 Mbit/s
95th percentile per-packet one-way delay: 116.017 ms
Loss rate: 2.30%

Run 4: Report of PCC-Expr — Data Link

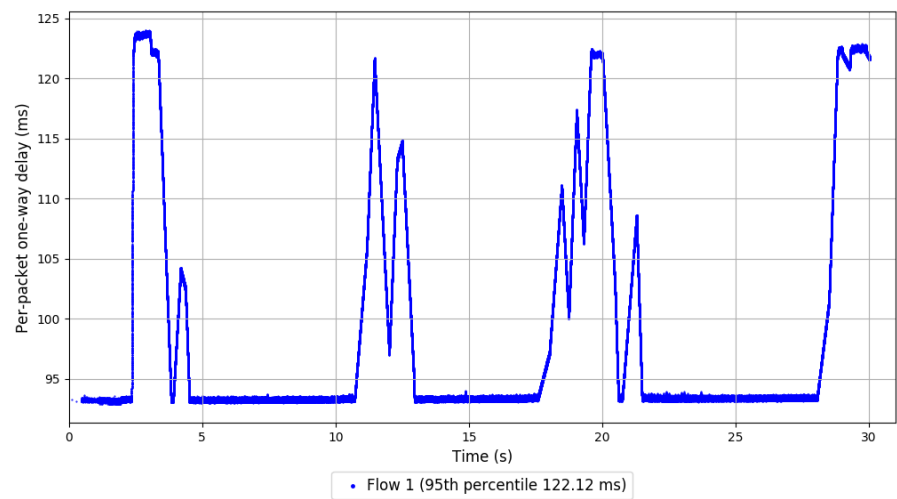
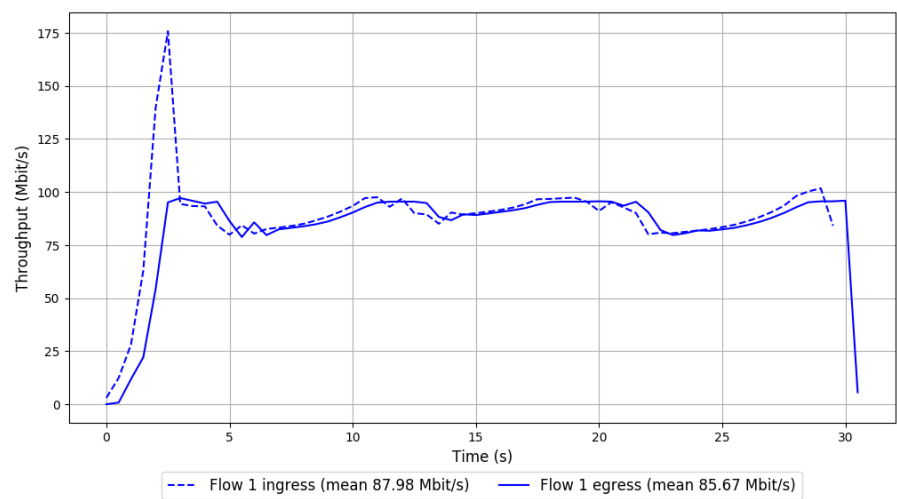


Run 5: Statistics of PCC-Expr

Start at: 2018-06-18 10:18:10
End at: 2018-06-18 10:18:40
Local clock offset: -3.18 ms
Remote clock offset: 12.795 ms

Below is generated by plot.py at 2018-06-18 12:07:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 85.67 Mbit/s
95th percentile per-packet one-way delay: 122.123 ms
Loss rate: 2.55%
-- Flow 1:
Average throughput: 85.67 Mbit/s
95th percentile per-packet one-way delay: 122.123 ms
Loss rate: 2.55%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-06-18 10:36:47

End at: 2018-06-18 10:37:17

Local clock offset: -2.093 ms

Remote clock offset: 4.25 ms

Below is generated by plot.py at 2018-06-18 12:07:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.23 Mbit/s

95th percentile per-packet one-way delay: 109.804 ms

Loss rate: 2.40%

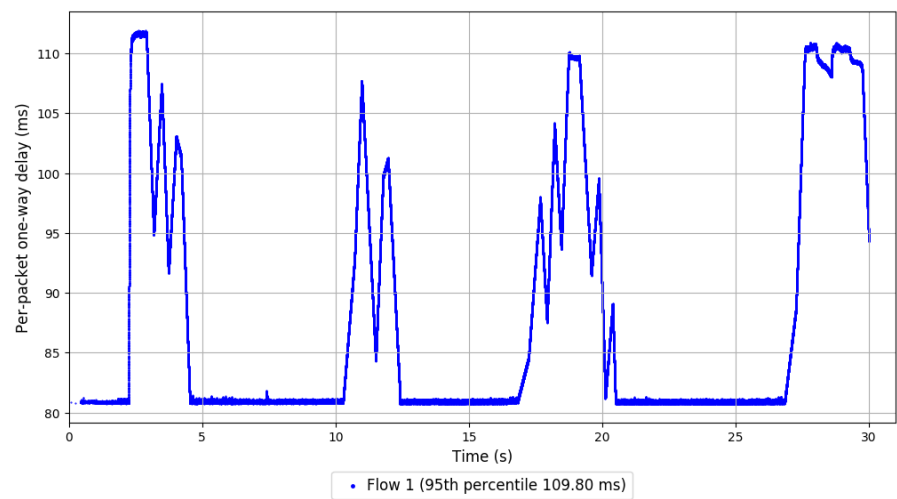
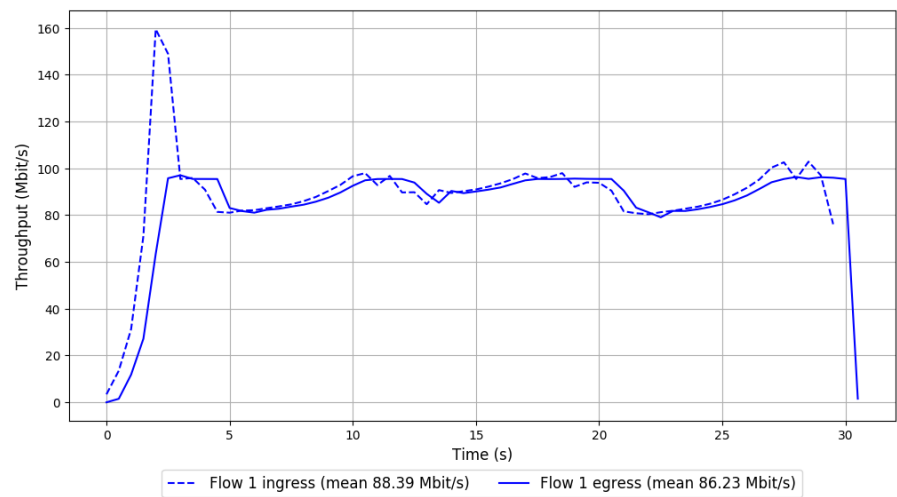
-- Flow 1:

Average throughput: 86.23 Mbit/s

95th percentile per-packet one-way delay: 109.804 ms

Loss rate: 2.40%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-06-18 10:55:31

End at: 2018-06-18 10:56:01

Local clock offset: -2.533 ms

Remote clock offset: 5.218 ms

Below is generated by plot.py at 2018-06-18 12:07:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.11 Mbit/s

95th percentile per-packet one-way delay: 108.868 ms

Loss rate: 2.33%

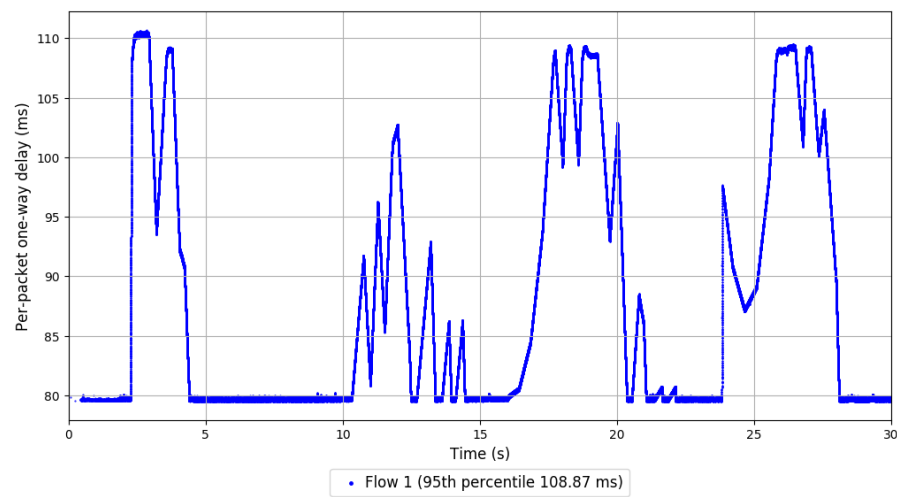
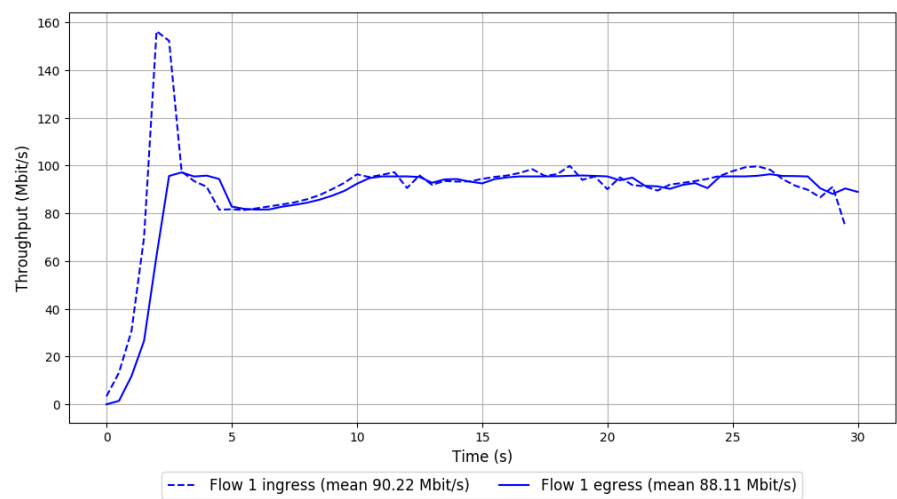
-- Flow 1:

Average throughput: 88.11 Mbit/s

95th percentile per-packet one-way delay: 108.868 ms

Loss rate: 2.33%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-06-18 11:14:11

End at: 2018-06-18 11:14:41

Local clock offset: -2.789 ms

Remote clock offset: 6.372 ms

Below is generated by plot.py at 2018-06-18 12:08:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.44 Mbit/s

95th percentile per-packet one-way delay: 108.704 ms

Loss rate: 2.16%

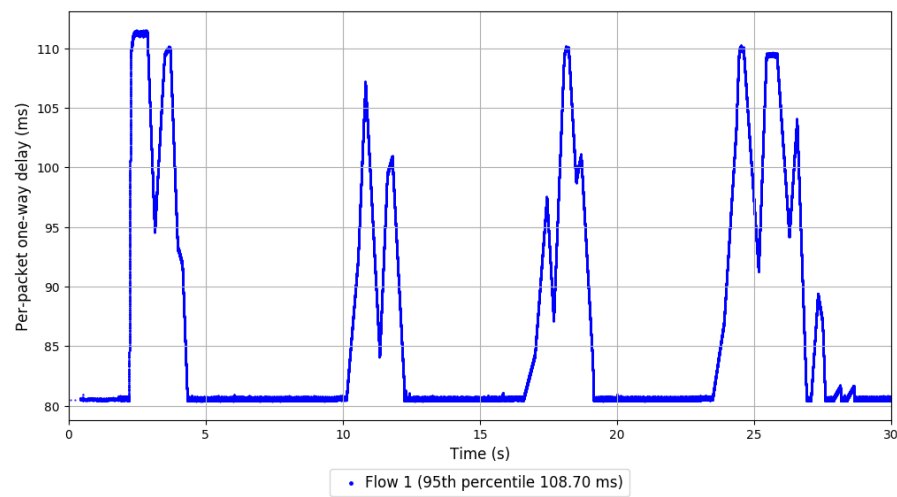
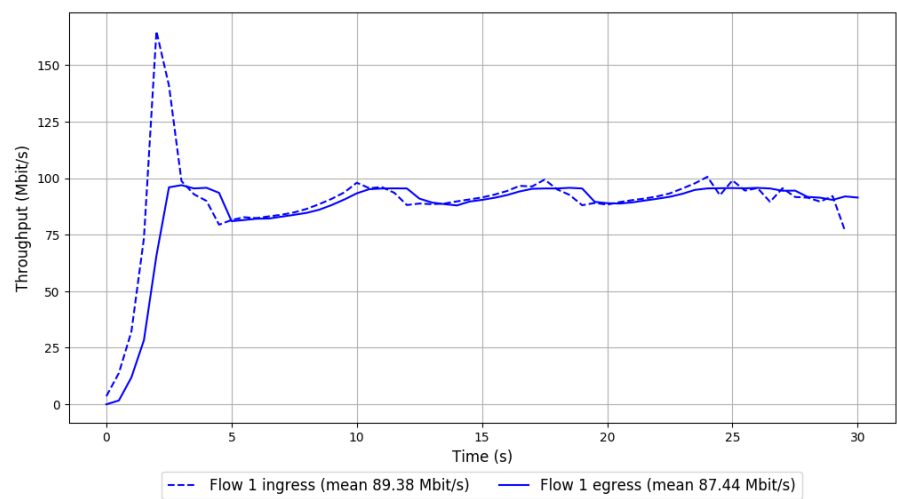
-- Flow 1:

Average throughput: 87.44 Mbit/s

95th percentile per-packet one-way delay: 108.704 ms

Loss rate: 2.16%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-06-18 11:32:55

End at: 2018-06-18 11:33:25

Local clock offset: -2.865 ms

Remote clock offset: 8.633 ms

Below is generated by plot.py at 2018-06-18 12:09:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.85 Mbit/s

95th percentile per-packet one-way delay: 118.768 ms

Loss rate: 2.34%

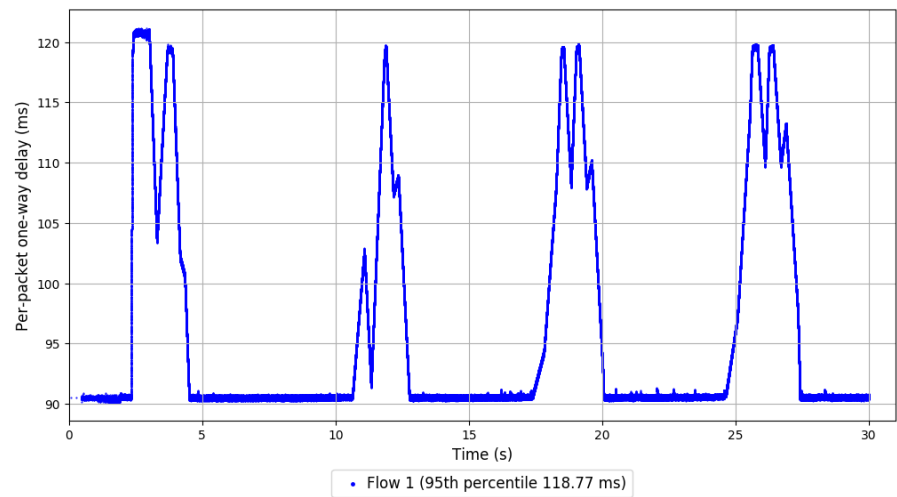
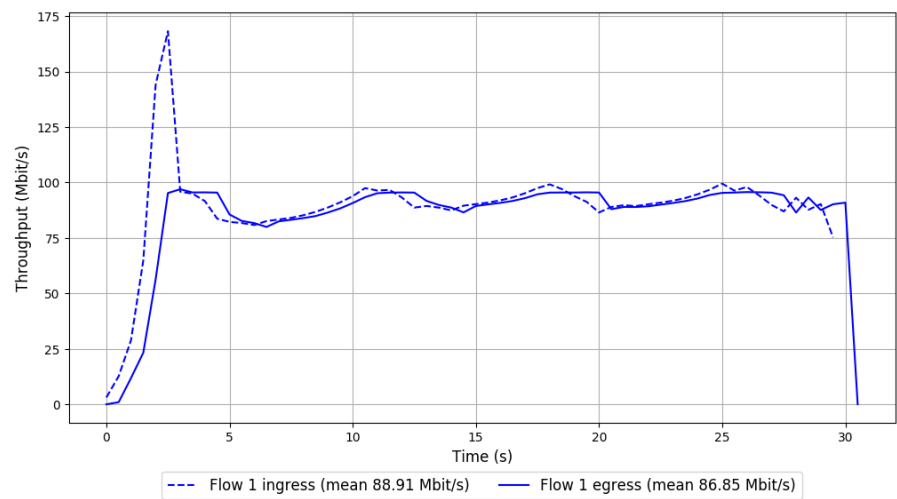
-- Flow 1:

Average throughput: 86.85 Mbit/s

95th percentile per-packet one-way delay: 118.768 ms

Loss rate: 2.34%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-06-18 11:51:38

End at: 2018-06-18 11:52:08

Local clock offset: -6.864 ms

Remote clock offset: 7.791 ms

Below is generated by plot.py at 2018-06-18 12:09:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.30 Mbit/s

95th percentile per-packet one-way delay: 115.410 ms

Loss rate: 2.42%

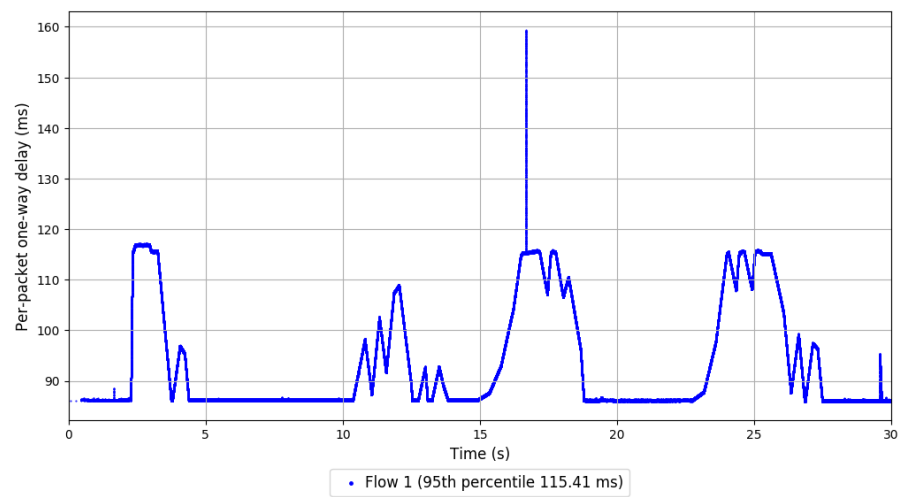
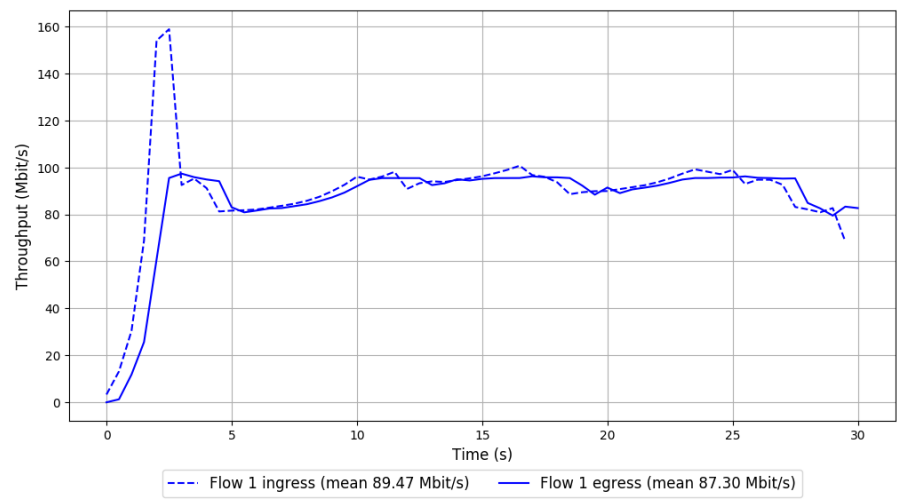
-- Flow 1:

Average throughput: 87.30 Mbit/s

95th percentile per-packet one-way delay: 115.410 ms

Loss rate: 2.42%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-06-18 09:04:44

End at: 2018-06-18 09:05:14

Local clock offset: -2.618 ms

Remote clock offset: 12.175 ms

Below is generated by plot.py at 2018-06-18 12:09:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.62 Mbit/s

95th percentile per-packet one-way delay: 87.709 ms

Loss rate: 0.62%

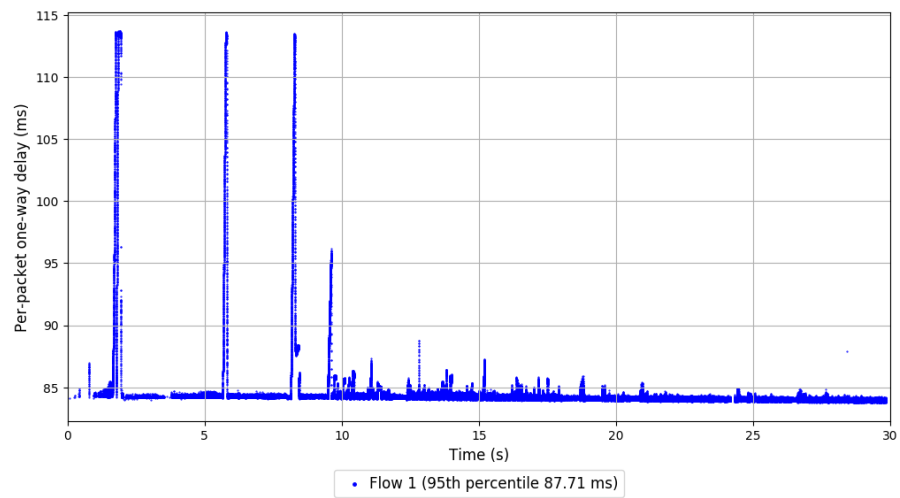
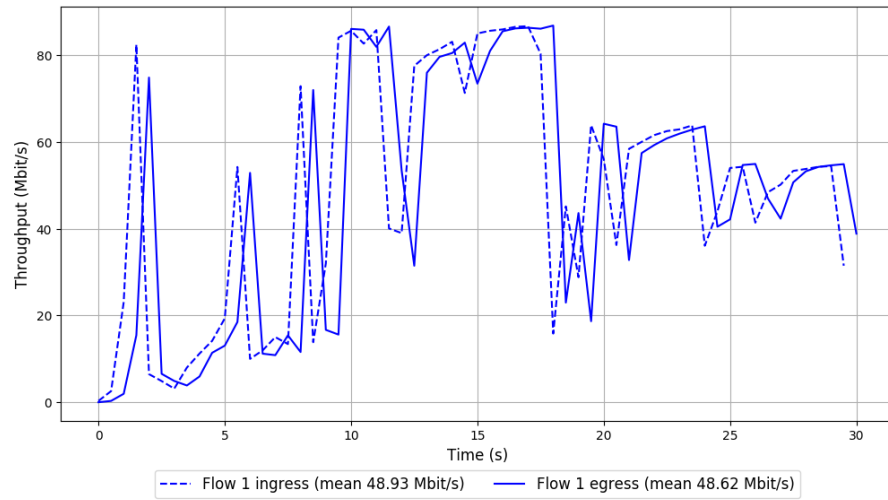
-- Flow 1:

Average throughput: 48.62 Mbit/s

95th percentile per-packet one-way delay: 87.709 ms

Loss rate: 0.62%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-06-18 09:23:23

End at: 2018-06-18 09:23:53

Local clock offset: -7.383 ms

Remote clock offset: 11.673 ms

Below is generated by plot.py at 2018-06-18 12:09:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.13 Mbit/s

95th percentile per-packet one-way delay: 103.687 ms

Loss rate: 0.41%

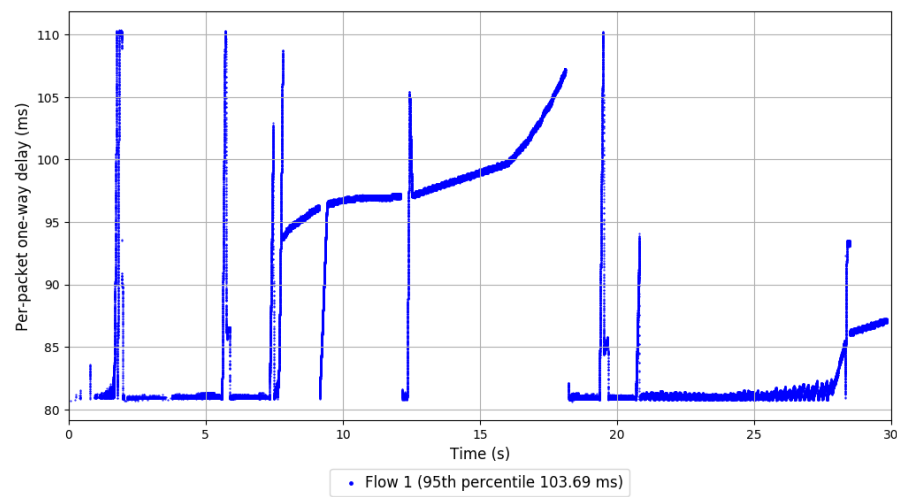
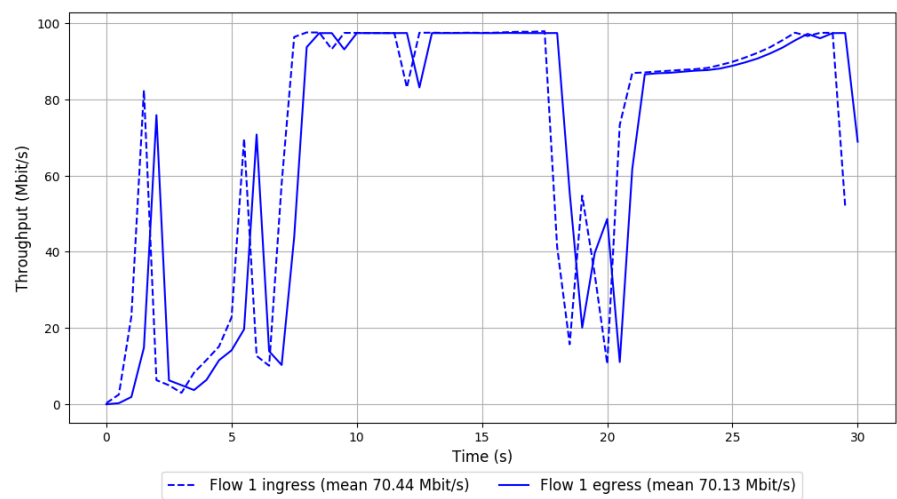
-- Flow 1:

Average throughput: 70.13 Mbit/s

95th percentile per-packet one-way delay: 103.687 ms

Loss rate: 0.41%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-06-18 09:42:03

End at: 2018-06-18 09:42:33

Local clock offset: -7.623 ms

Remote clock offset: 12.055 ms

Below is generated by plot.py at 2018-06-18 12:09:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.46 Mbit/s

95th percentile per-packet one-way delay: 87.412 ms

Loss rate: 0.61%

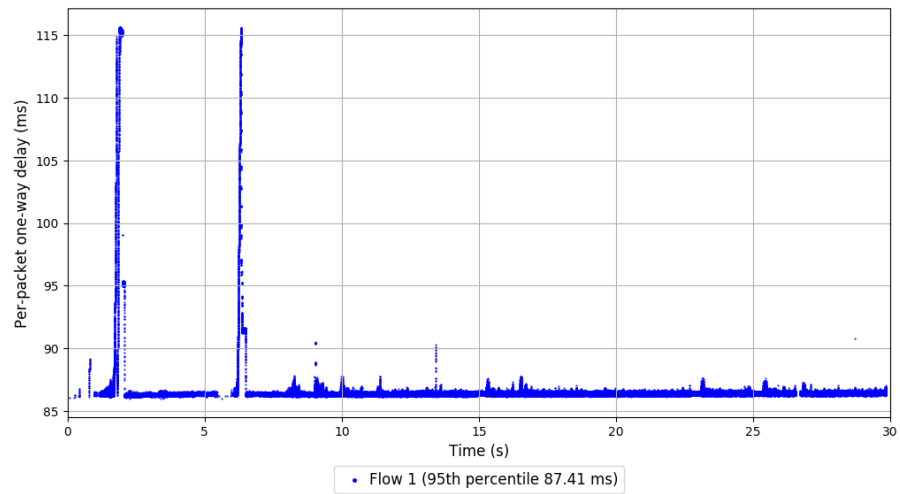
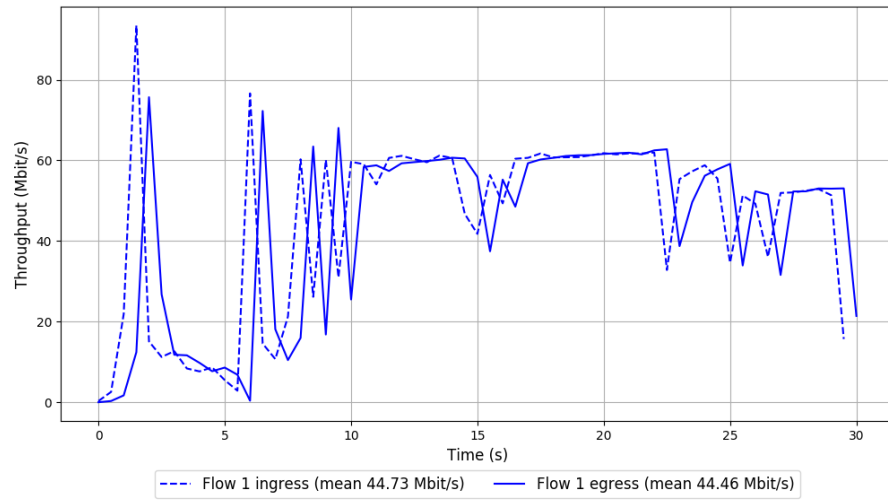
-- Flow 1:

Average throughput: 44.46 Mbit/s

95th percentile per-packet one-way delay: 87.412 ms

Loss rate: 0.61%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-06-18 10:00:44

End at: 2018-06-18 10:01:14

Local clock offset: -7.743 ms

Remote clock offset: 11.44 ms

Below is generated by plot.py at 2018-06-18 12:09:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.87 Mbit/s

95th percentile per-packet one-way delay: 105.764 ms

Loss rate: 0.43%

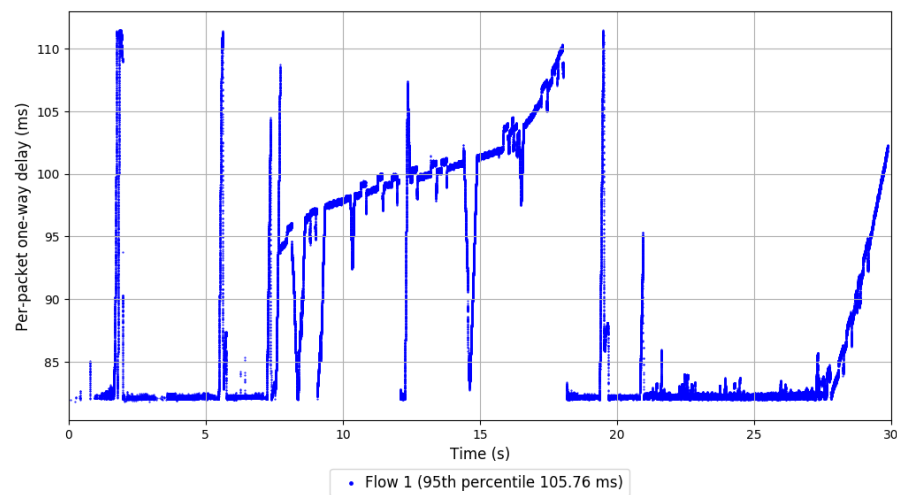
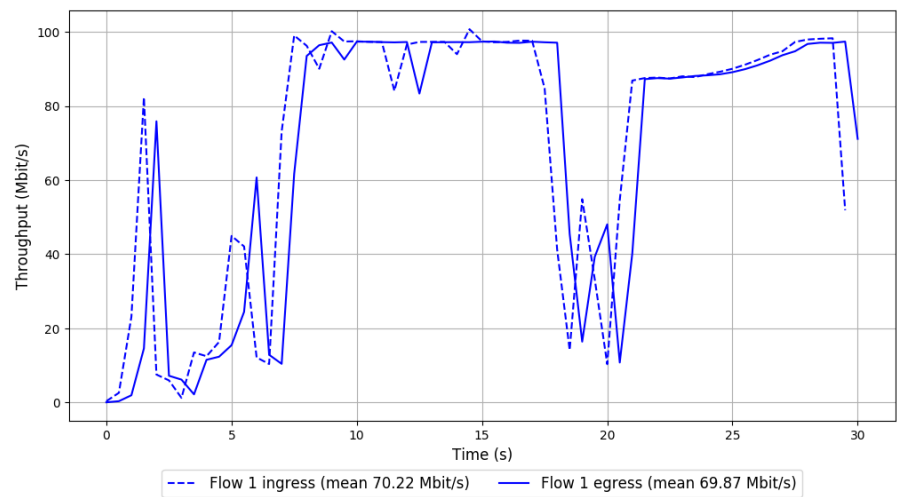
-- Flow 1:

Average throughput: 69.87 Mbit/s

95th percentile per-packet one-way delay: 105.764 ms

Loss rate: 0.43%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-06-18 10:19:24

End at: 2018-06-18 10:19:54

Local clock offset: -3.071 ms

Remote clock offset: 7.358 ms

Below is generated by plot.py at 2018-06-18 12:09:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.49 Mbit/s

95th percentile per-packet one-way delay: 85.362 ms

Loss rate: 0.50%

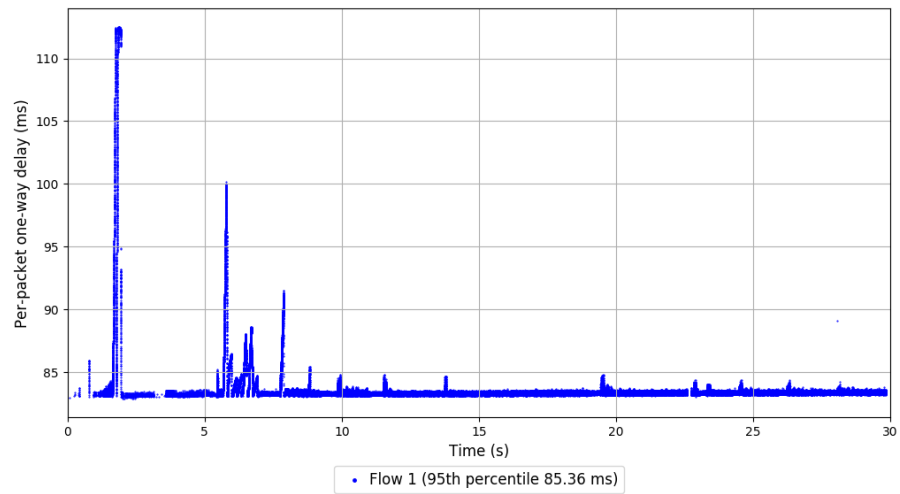
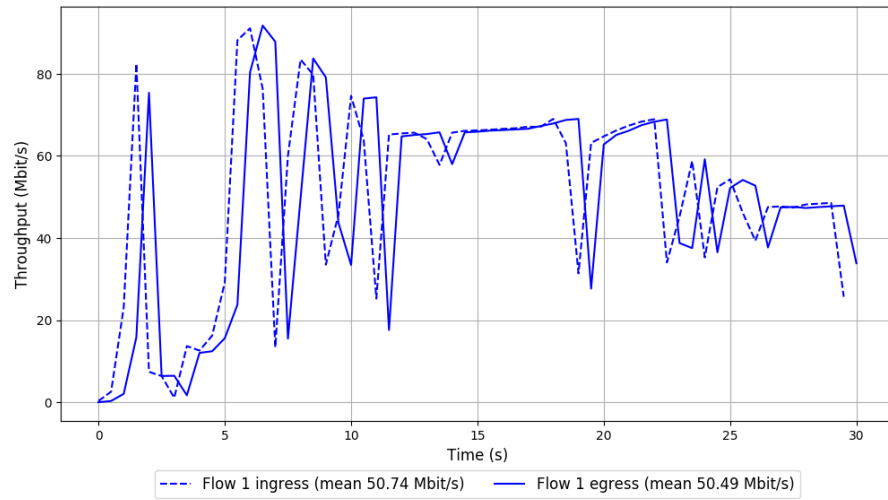
-- Flow 1:

Average throughput: 50.49 Mbit/s

95th percentile per-packet one-way delay: 85.362 ms

Loss rate: 0.50%

Run 5: Report of QUIC Cubic — Data Link

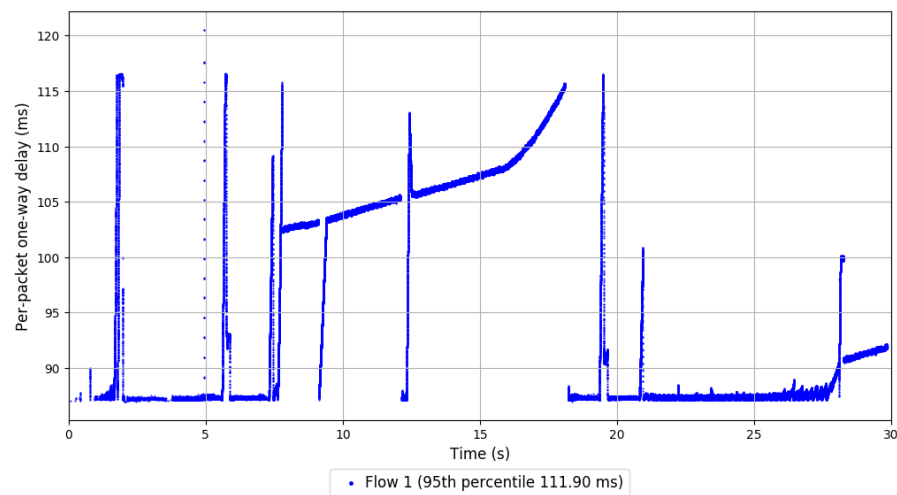
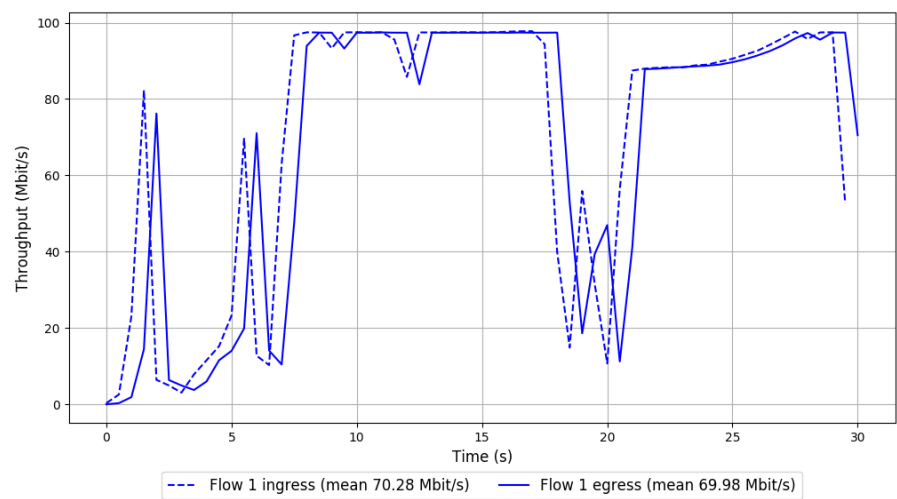


Run 6: Statistics of QUIC Cubic

Start at: 2018-06-18 10:38:00
End at: 2018-06-18 10:38:30
Local clock offset: -2.133 ms
Remote clock offset: 10.389 ms

Below is generated by plot.py at 2018-06-18 12:09:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 69.98 Mbit/s
95th percentile per-packet one-way delay: 111.901 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 69.98 Mbit/s
95th percentile per-packet one-way delay: 111.901 ms
Loss rate: 0.42%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-06-18 10:56:44

End at: 2018-06-18 10:57:14

Local clock offset: -2.462 ms

Remote clock offset: 5.174 ms

Below is generated by plot.py at 2018-06-18 12:09:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.48 Mbit/s

95th percentile per-packet one-way delay: 103.629 ms

Loss rate: 0.39%

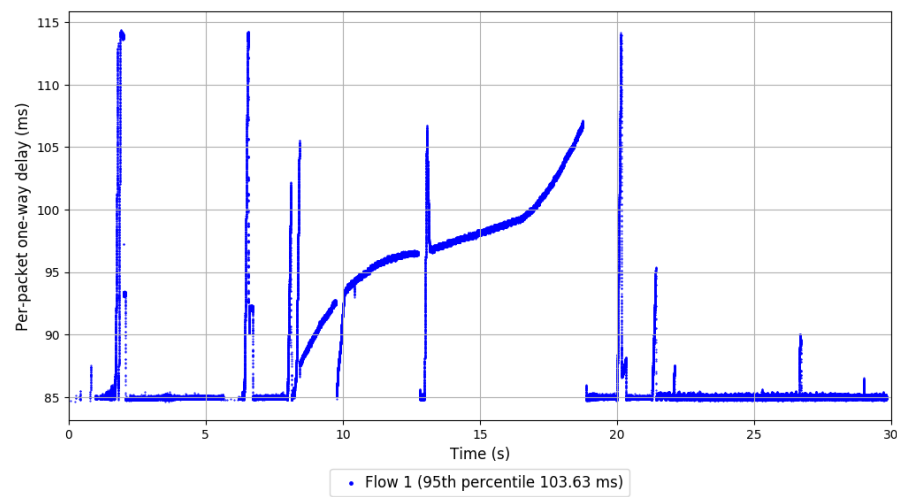
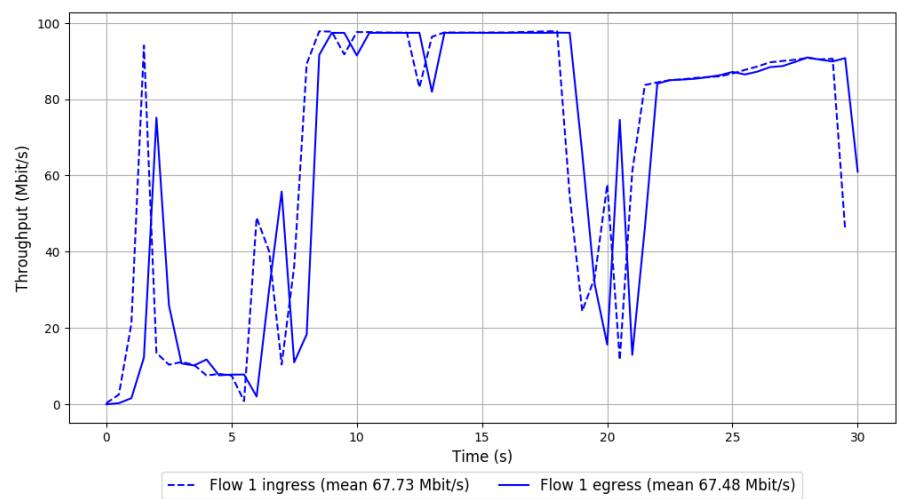
-- Flow 1:

Average throughput: 67.48 Mbit/s

95th percentile per-packet one-way delay: 103.629 ms

Loss rate: 0.39%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-06-18 11:15:25

End at: 2018-06-18 11:15:55

Local clock offset: -2.8 ms

Remote clock offset: 5.384 ms

Below is generated by plot.py at 2018-06-18 12:09:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.00 Mbit/s

95th percentile per-packet one-way delay: 102.451 ms

Loss rate: 0.36%

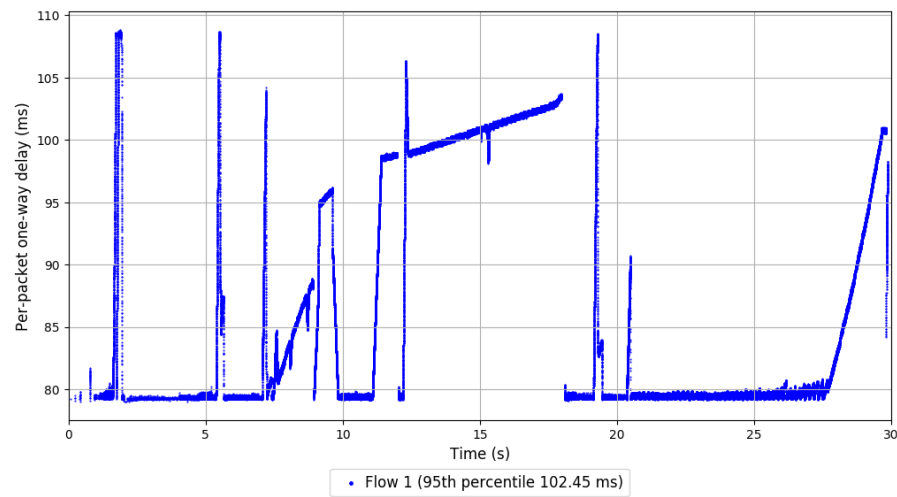
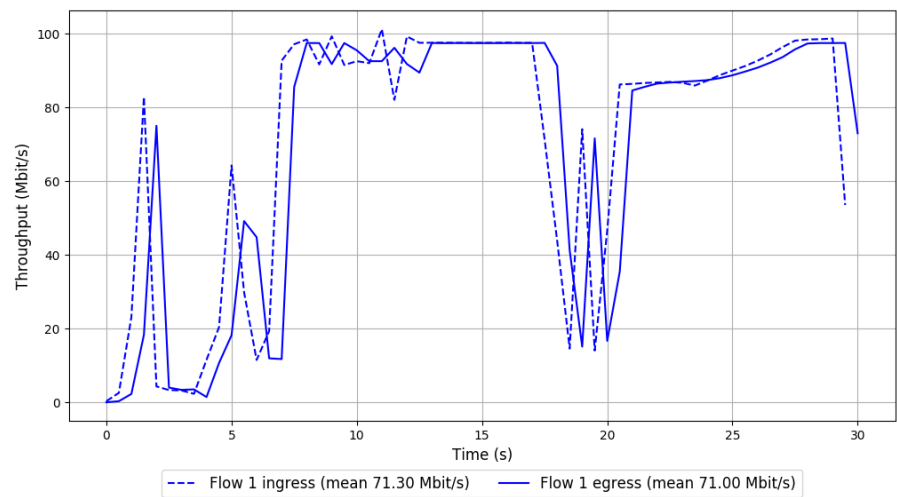
-- Flow 1:

Average throughput: 71.00 Mbit/s

95th percentile per-packet one-way delay: 102.451 ms

Loss rate: 0.36%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-06-18 11:34:10

End at: 2018-06-18 11:34:40

Local clock offset: -2.849 ms

Remote clock offset: 7.328 ms

Below is generated by plot.py at 2018-06-18 12:09:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.98 Mbit/s

95th percentile per-packet one-way delay: 110.266 ms

Loss rate: 0.43%

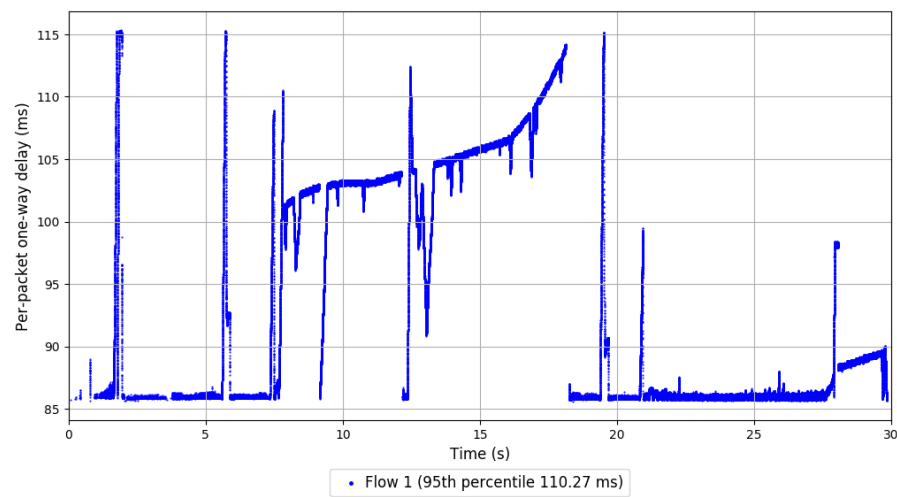
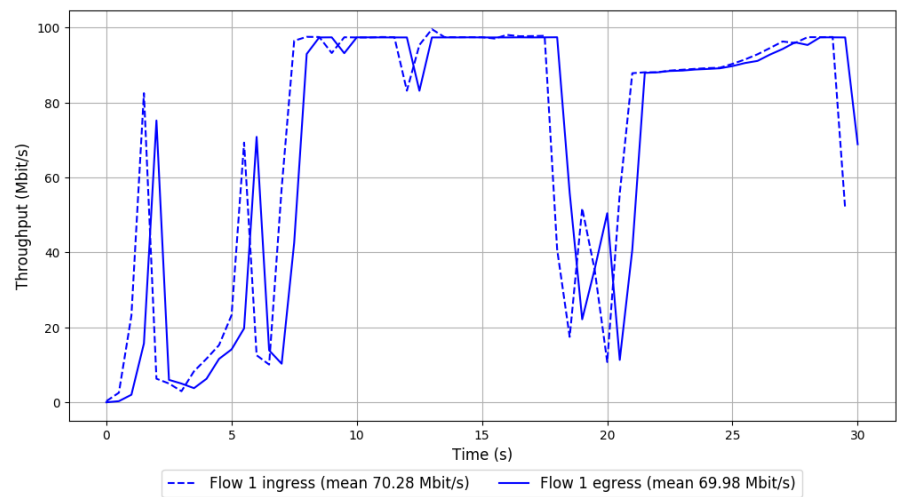
-- Flow 1:

Average throughput: 69.98 Mbit/s

95th percentile per-packet one-way delay: 110.266 ms

Loss rate: 0.43%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-06-18 11:52:52

End at: 2018-06-18 11:53:22

Local clock offset: -6.907 ms

Remote clock offset: 4.176 ms

Below is generated by plot.py at 2018-06-18 12:09:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.70 Mbit/s

95th percentile per-packet one-way delay: 100.352 ms

Loss rate: 0.41%

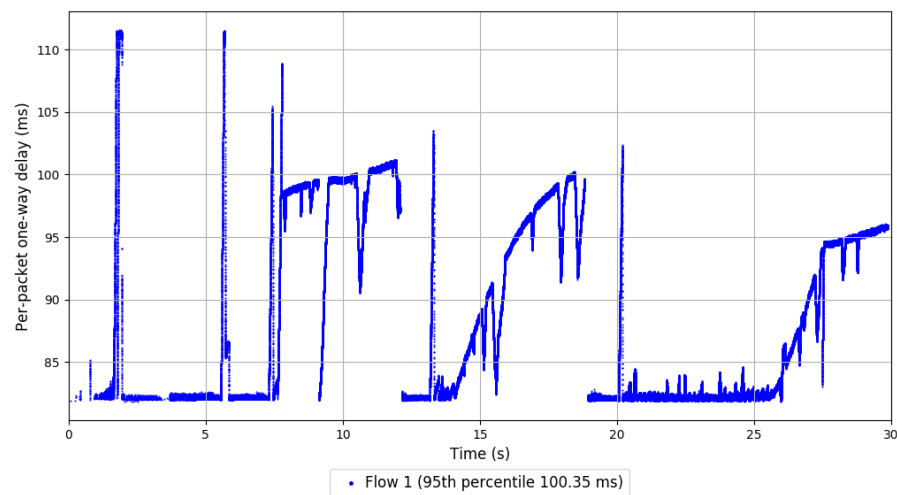
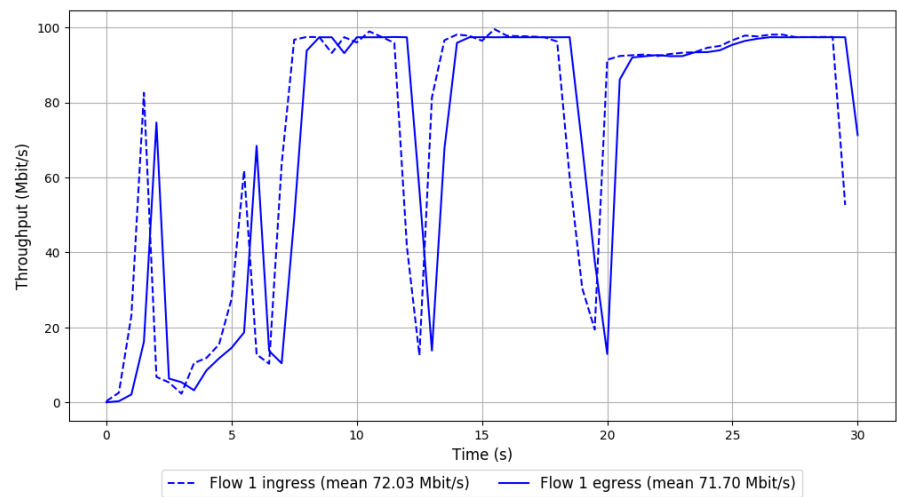
-- Flow 1:

Average throughput: 71.70 Mbit/s

95th percentile per-packet one-way delay: 100.352 ms

Loss rate: 0.41%

Run 10: Report of QUIC Cubic — Data Link

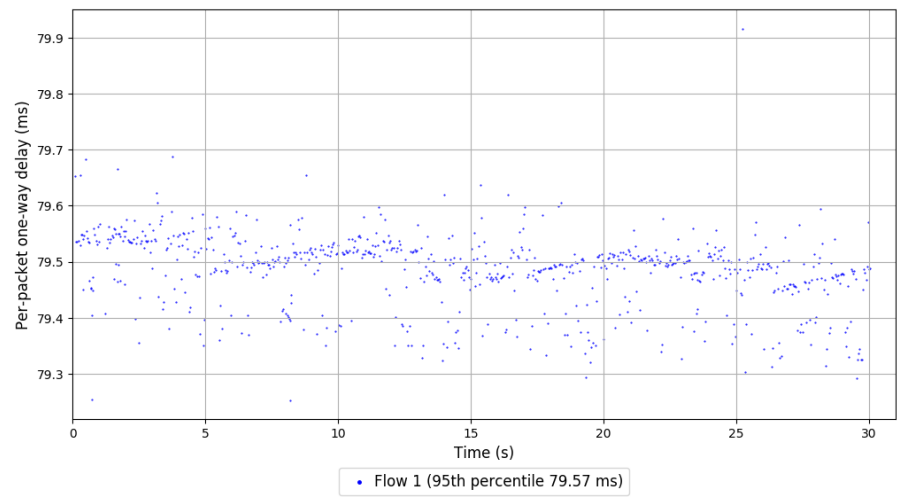
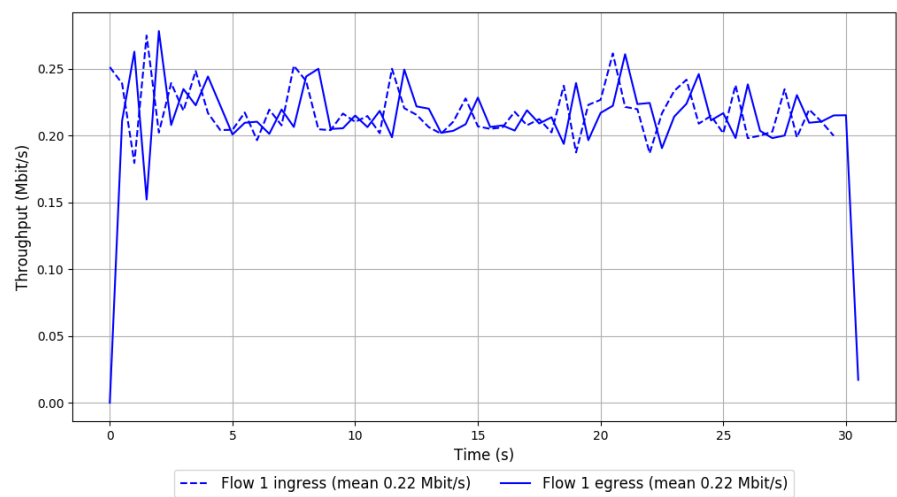


```
Run 1: Statistics of SCReAM

Start at: 2018-06-18 08:58:58
End at: 2018-06-18 08:59:28
Local clock offset: -2.054 ms
Remote clock offset: 4.975 ms

# Below is generated by plot.py at 2018-06-18 12:09:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.571 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.571 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

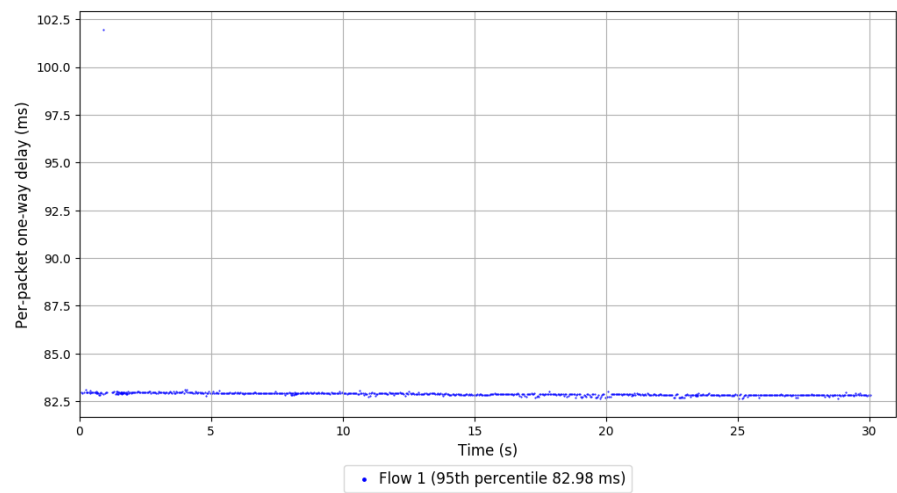
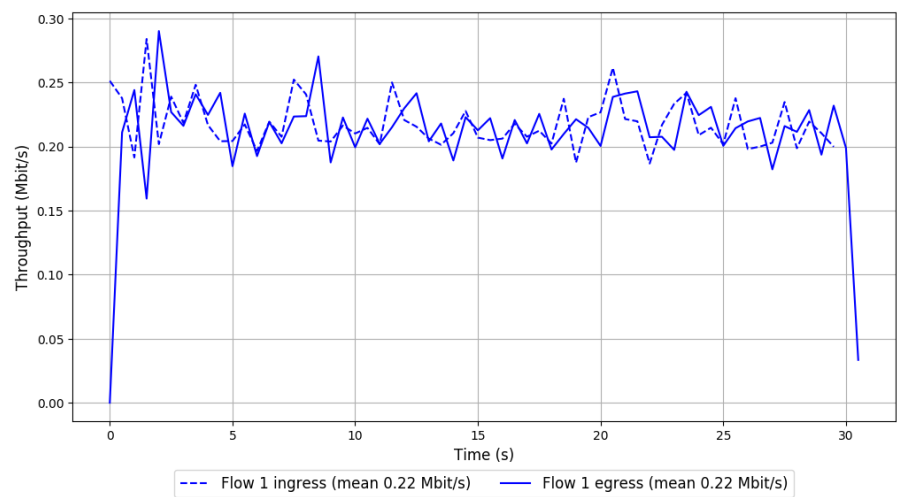


Run 2: Statistics of SCReAM

Start at: 2018-06-18 09:17:36
End at: 2018-06-18 09:18:06
Local clock offset: -6.564 ms
Remote clock offset: 11.742 ms

Below is generated by plot.py at 2018-06-18 12:09:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.978 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.978 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

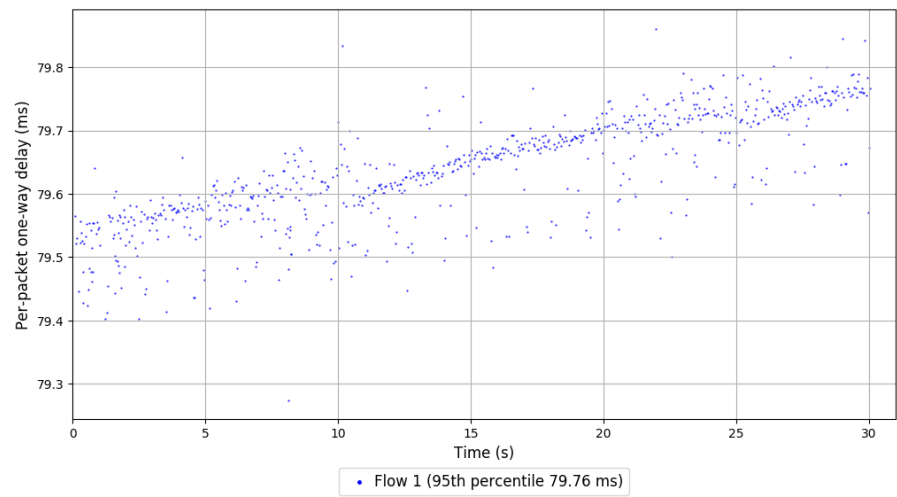
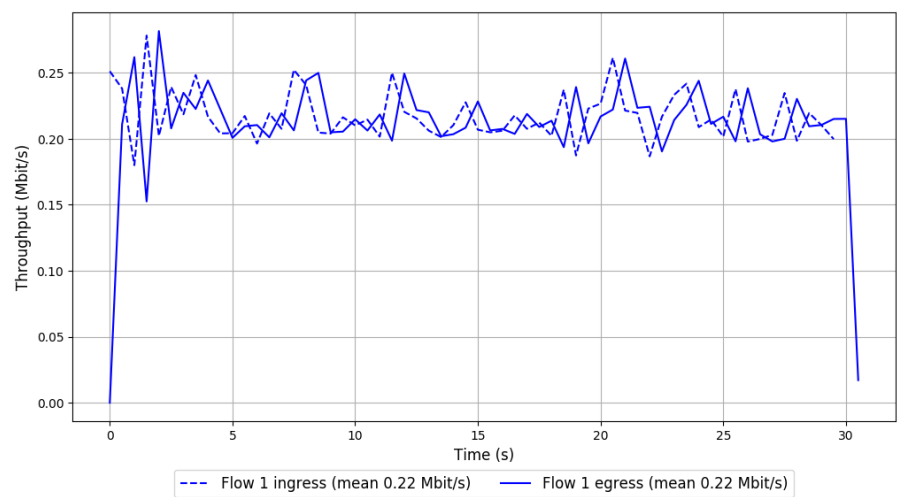


Run 3: Statistics of SCReAM

Start at: 2018-06-18 09:36:17
End at: 2018-06-18 09:36:47
Local clock offset: -8.232 ms
Remote clock offset: 12.501 ms

Below is generated by plot.py at 2018-06-18 12:09:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.762 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.762 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

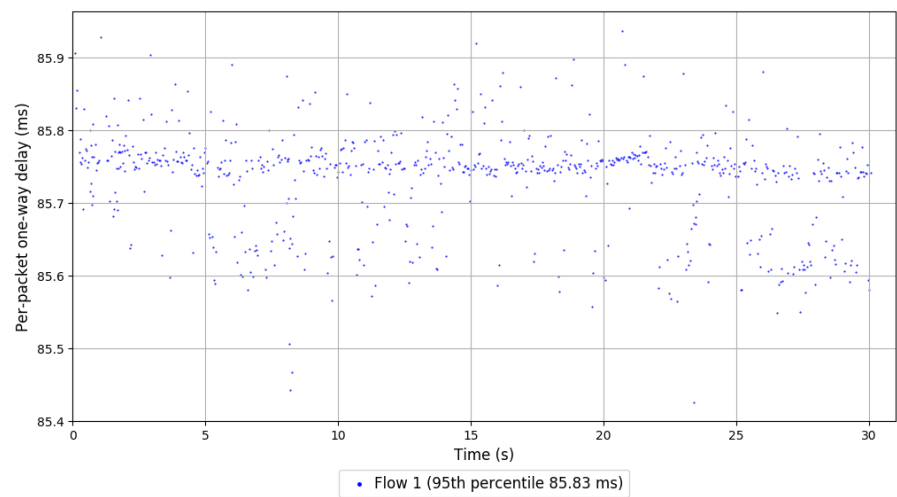
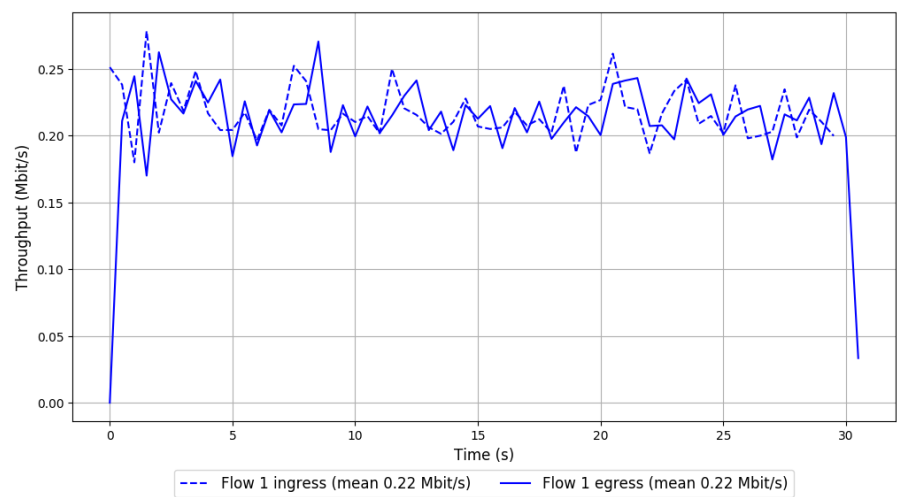


Run 4: Statistics of SCReAM

Start at: 2018-06-18 09:54:57
End at: 2018-06-18 09:55:27
Local clock offset: -7.64 ms
Remote clock offset: 16.439 ms

Below is generated by plot.py at 2018-06-18 12:09:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.829 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.829 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

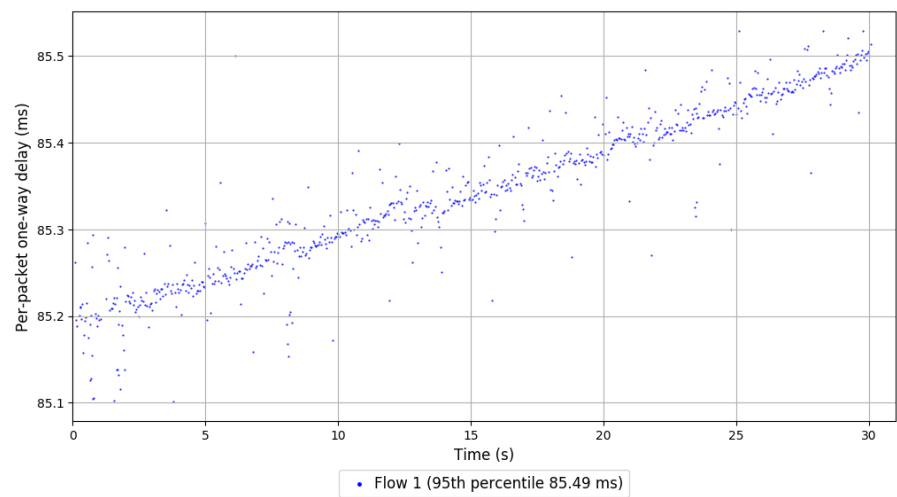
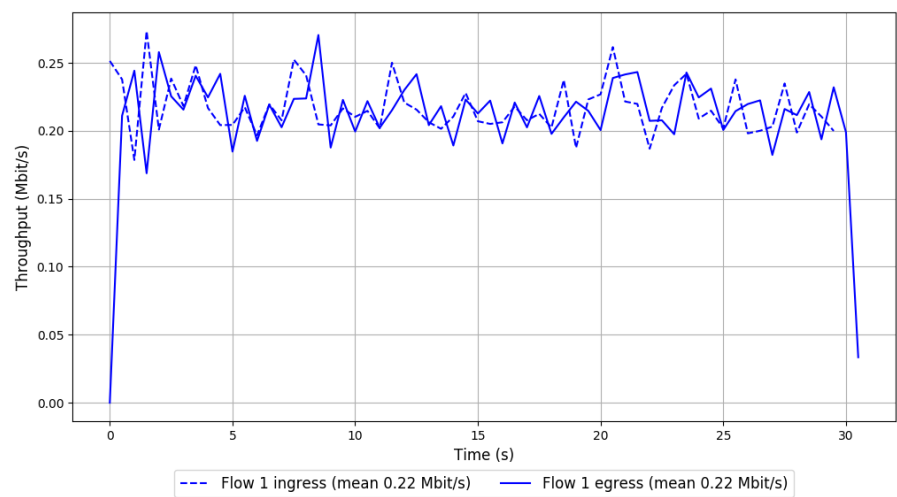


Run 5: Statistics of SCReAM

Start at: 2018-06-18 10:13:37
End at: 2018-06-18 10:14:07
Local clock offset: -4.06 ms
Remote clock offset: 11.994 ms

Below is generated by plot.py at 2018-06-18 12:09:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.486 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.486 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-06-18 10:32:15

End at: 2018-06-18 10:32:45

Local clock offset: -1.88 ms

Remote clock offset: 10.79 ms

Below is generated by plot.py at 2018-06-18 12:09:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 91.281 ms

Loss rate: 0.13%

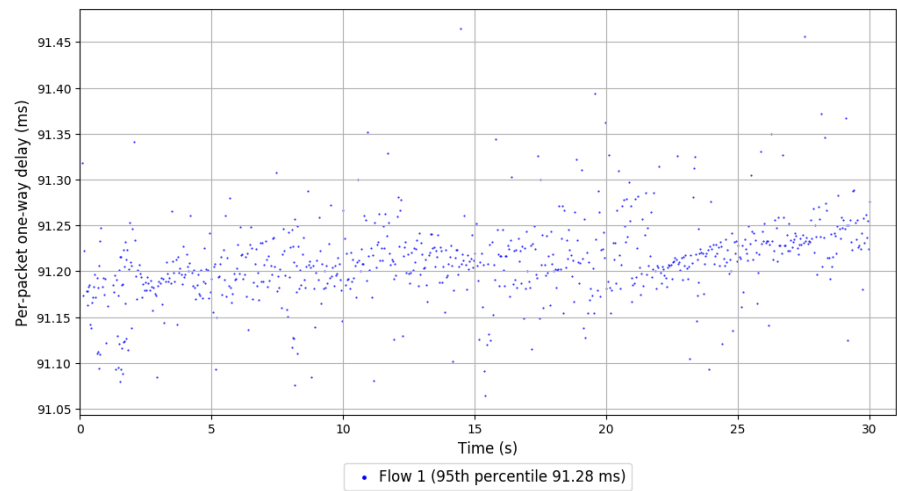
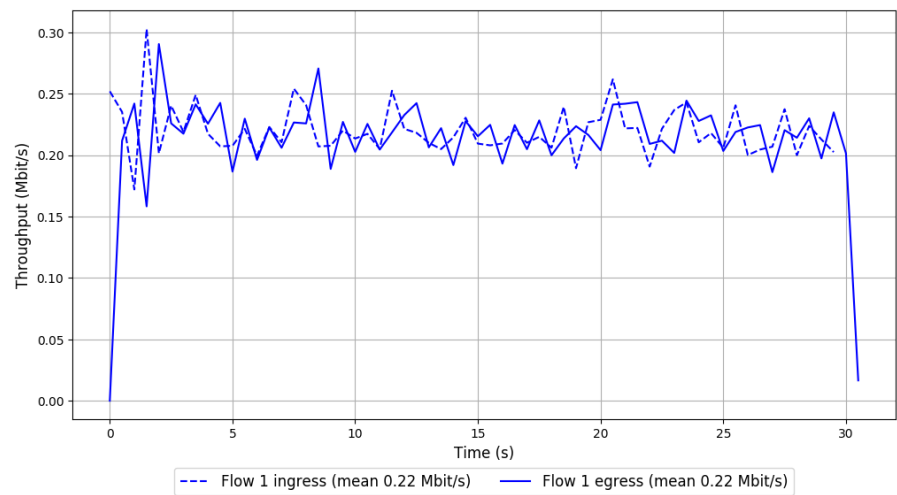
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 91.281 ms

Loss rate: 0.13%

Run 6: Report of SReAM — Data Link

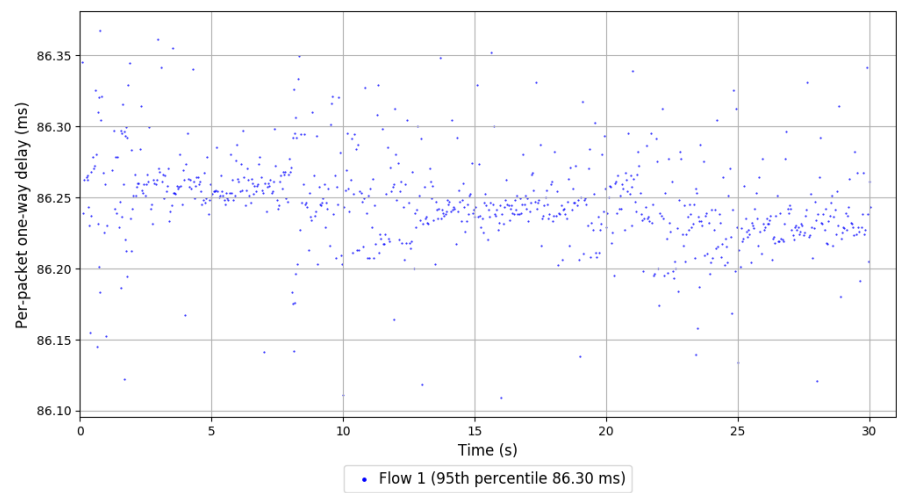
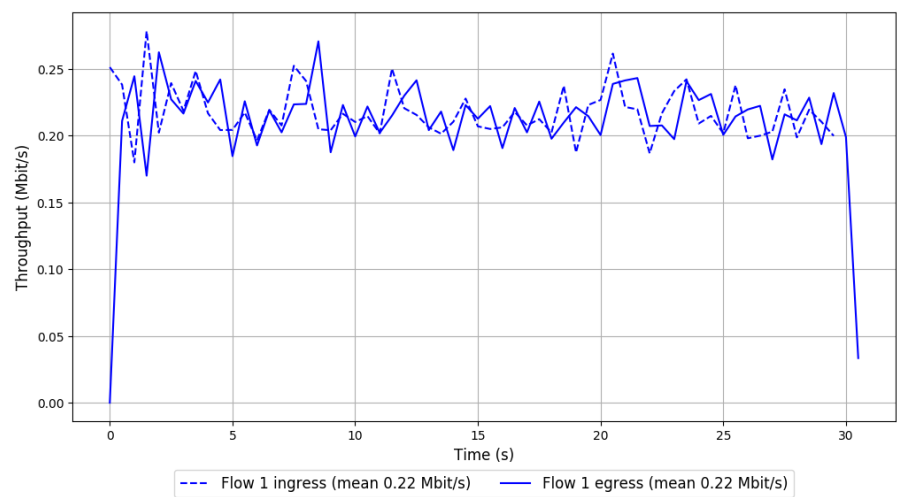


Run 7: Statistics of SCReAM

Start at: 2018-06-18 10:50:58
End at: 2018-06-18 10:51:28
Local clock offset: -2.55 ms
Remote clock offset: 10.106 ms

Below is generated by plot.py at 2018-06-18 12:09:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.304 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.304 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

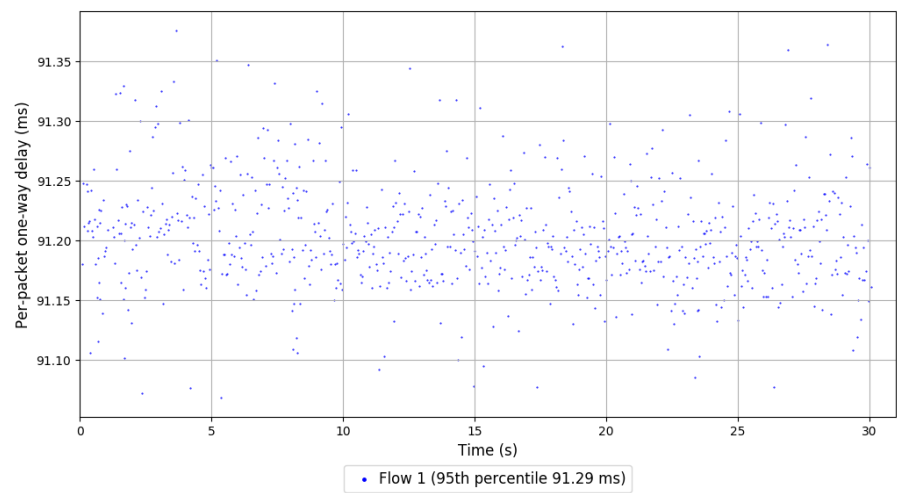
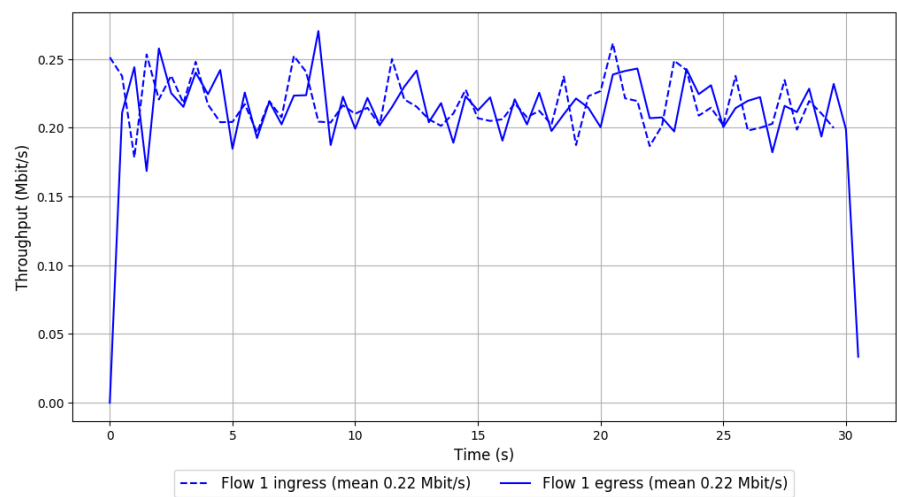


Run 8: Statistics of SCReAM

Start at: 2018-06-18 11:09:38
End at: 2018-06-18 11:10:08
Local clock offset: -2.678 ms
Remote clock offset: 11.579 ms

Below is generated by plot.py at 2018-06-18 12:09:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 91.288 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 91.288 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-06-18 11:28:22

End at: 2018-06-18 11:28:52

Local clock offset: -2.865 ms

Remote clock offset: 8.837 ms

Below is generated by plot.py at 2018-06-18 12:09:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.367 ms

Loss rate: 0.00%

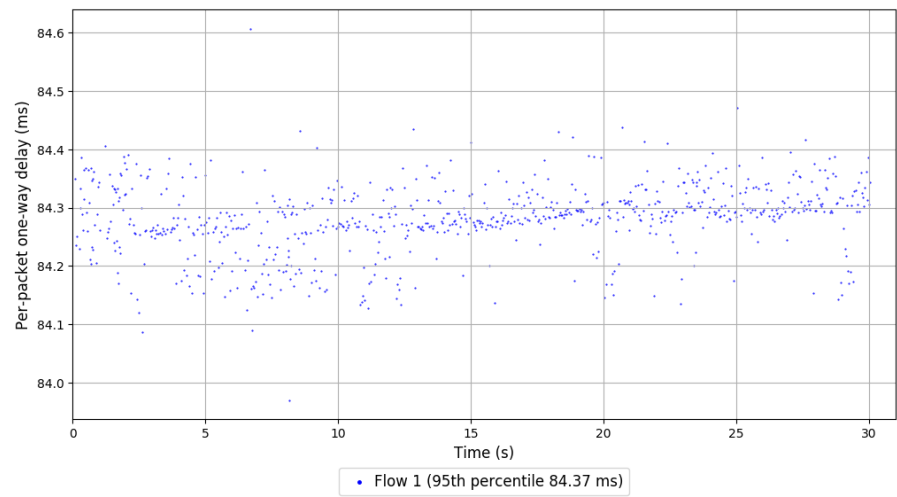
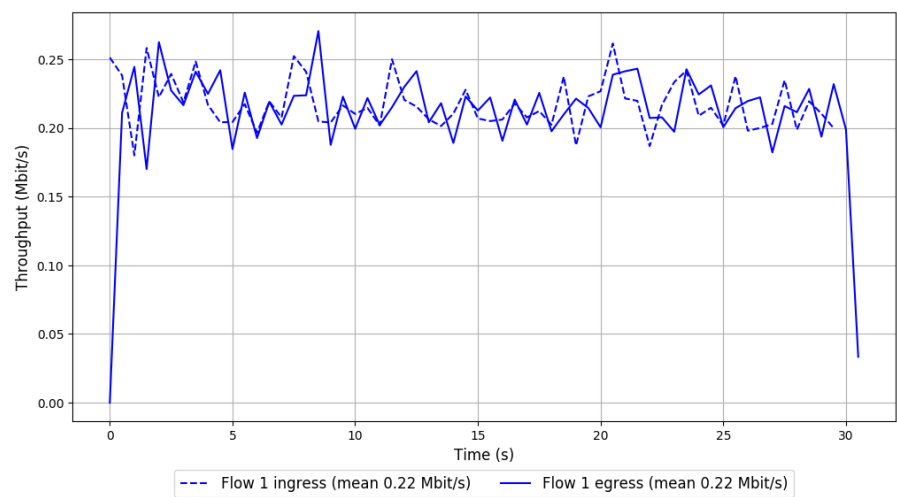
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.367 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-06-18 11:47:05

End at: 2018-06-18 11:47:35

Local clock offset: -6.242 ms

Remote clock offset: 2.64 ms

Below is generated by plot.py at 2018-06-18 12:09:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 82.037 ms

Loss rate: 0.00%

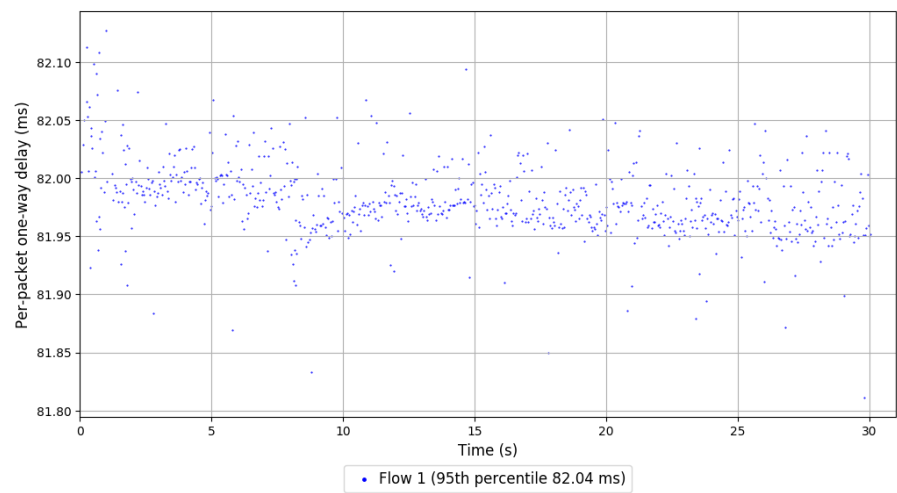
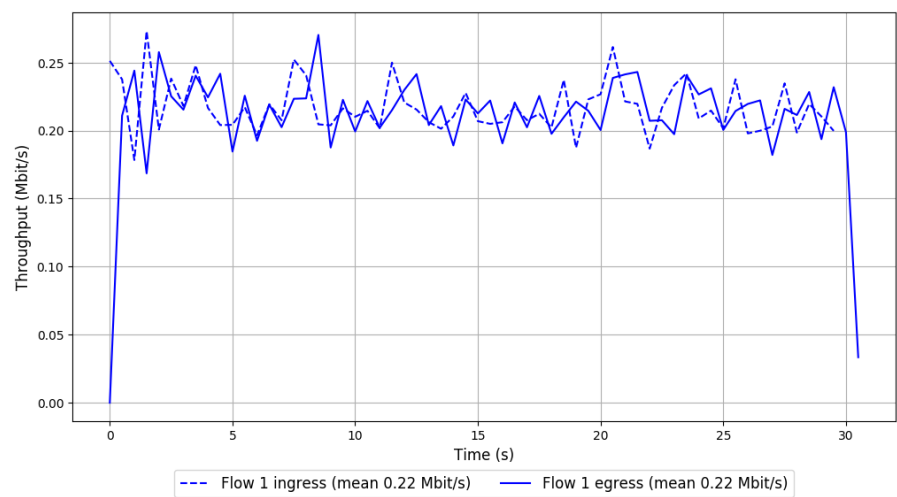
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 82.037 ms

Loss rate: 0.00%

Run 10: Report of SCSReAM — Data Link

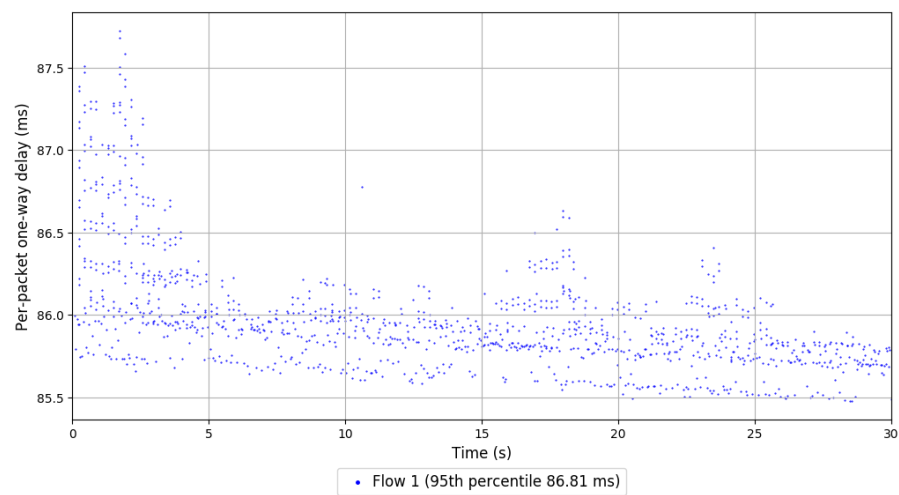
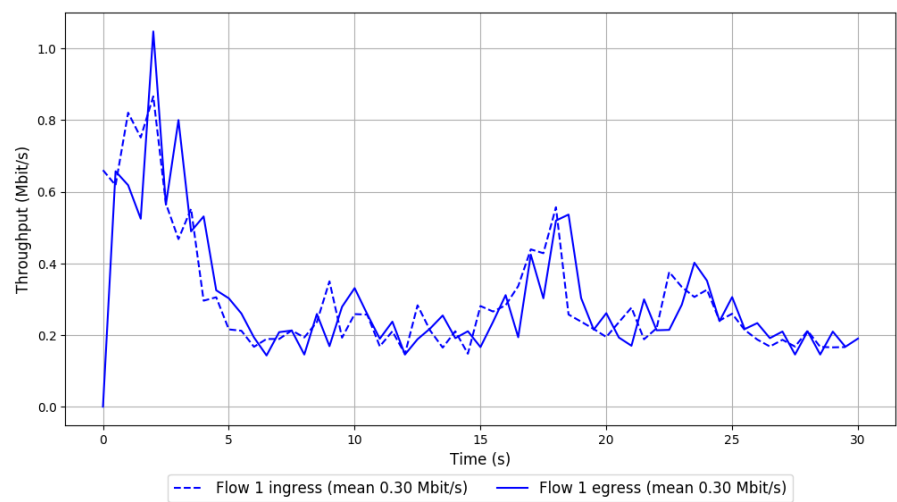


Run 1: Statistics of Sprout

Start at: 2018-06-18 09:02:24
End at: 2018-06-18 09:02:54
Local clock offset: -2.309 ms
Remote clock offset: 11.033 ms

Below is generated by plot.py at 2018-06-18 12:09:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 86.811 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 86.811 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

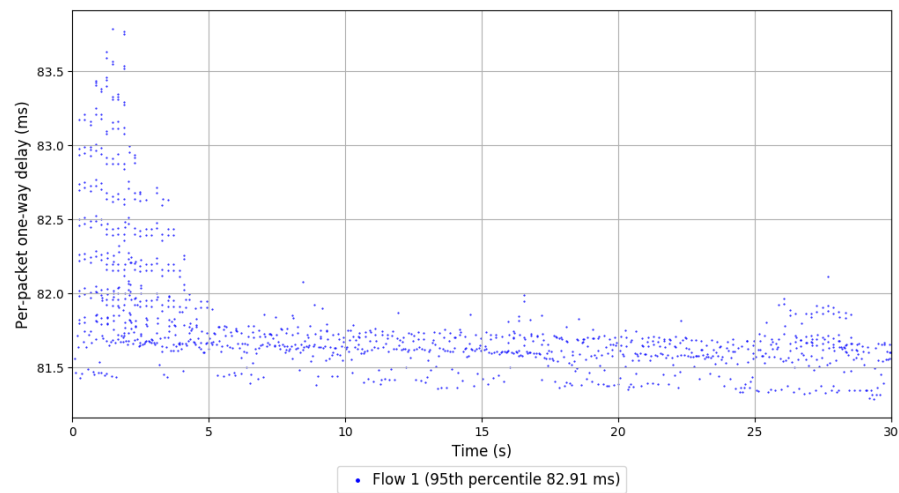
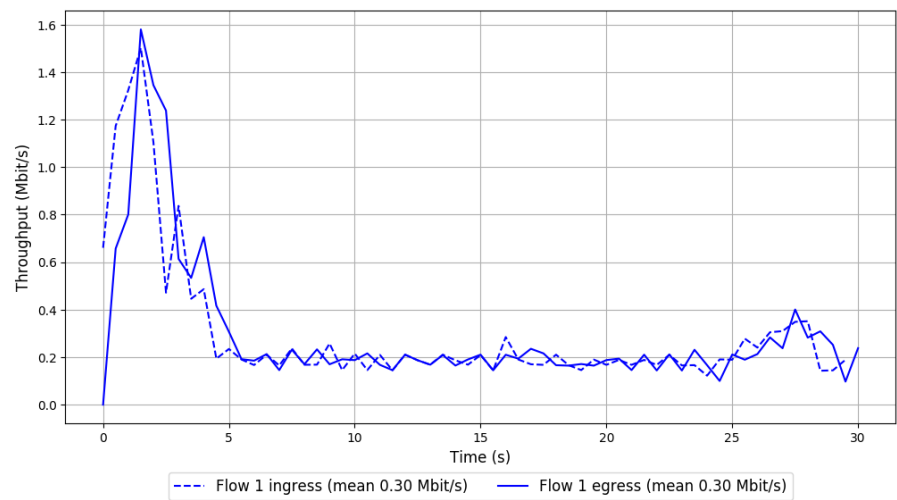


Run 2: Statistics of Sprout

Start at: 2018-06-18 09:21:02
End at: 2018-06-18 09:21:32
Local clock offset: -7.171 ms
Remote clock offset: 11.388 ms

Below is generated by plot.py at 2018-06-18 12:09:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 82.912 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 82.912 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

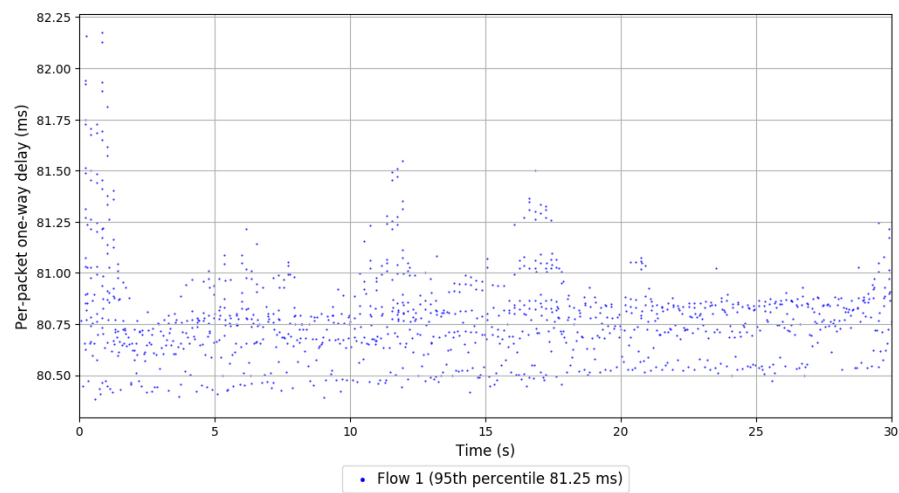
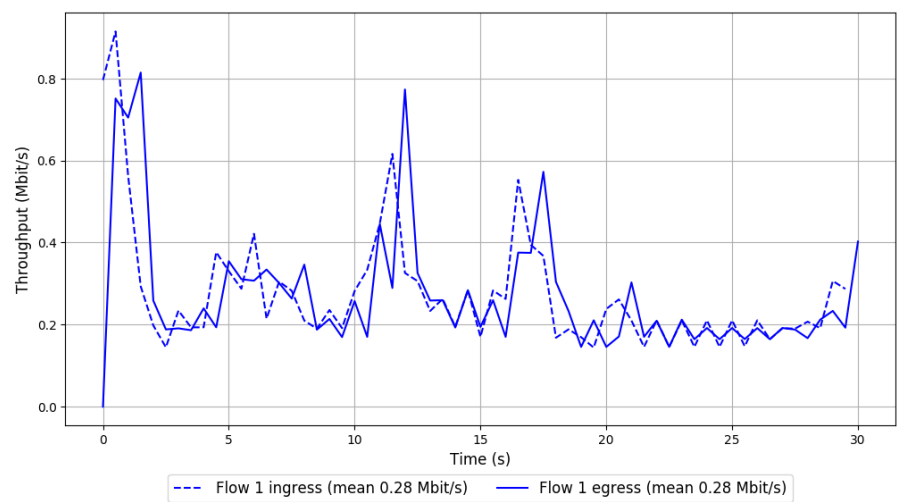


Run 3: Statistics of Sprout

Start at: 2018-06-18 09:39:43
End at: 2018-06-18 09:40:13
Local clock offset: -7.792 ms
Remote clock offset: 12.543 ms

Below is generated by plot.py at 2018-06-18 12:09:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 81.247 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 81.247 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

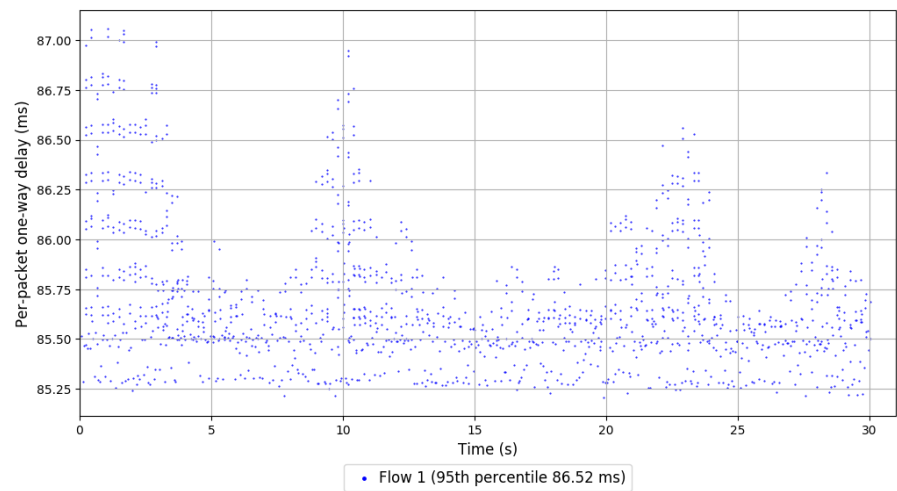
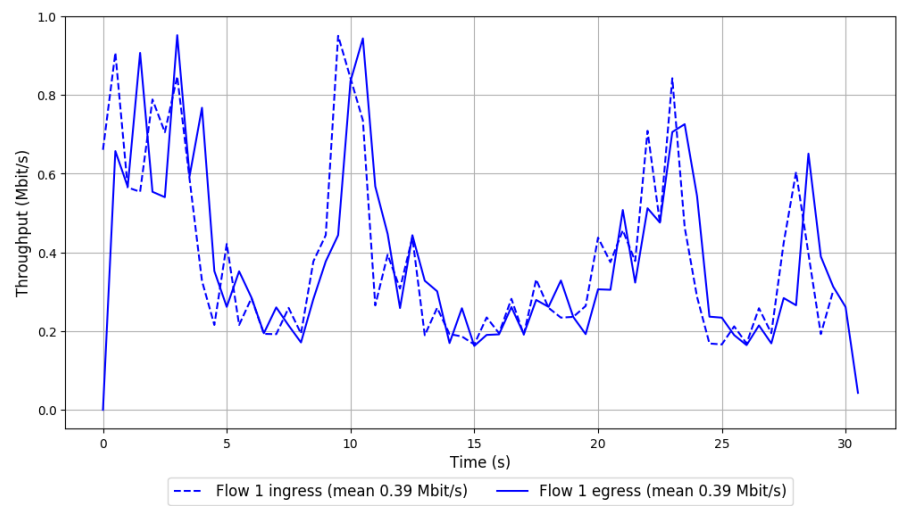


Run 4: Statistics of Sprout

Start at: 2018-06-18 09:58:23
End at: 2018-06-18 09:58:53
Local clock offset: -7.715 ms
Remote clock offset: 16.532 ms

Below is generated by plot.py at 2018-06-18 12:09:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 86.523 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 86.523 ms
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-06-18 10:17:03

End at: 2018-06-18 10:17:33

Local clock offset: -3.343 ms

Remote clock offset: 8.029 ms

Below is generated by plot.py at 2018-06-18 12:09:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 85.192 ms

Loss rate: 0.00%

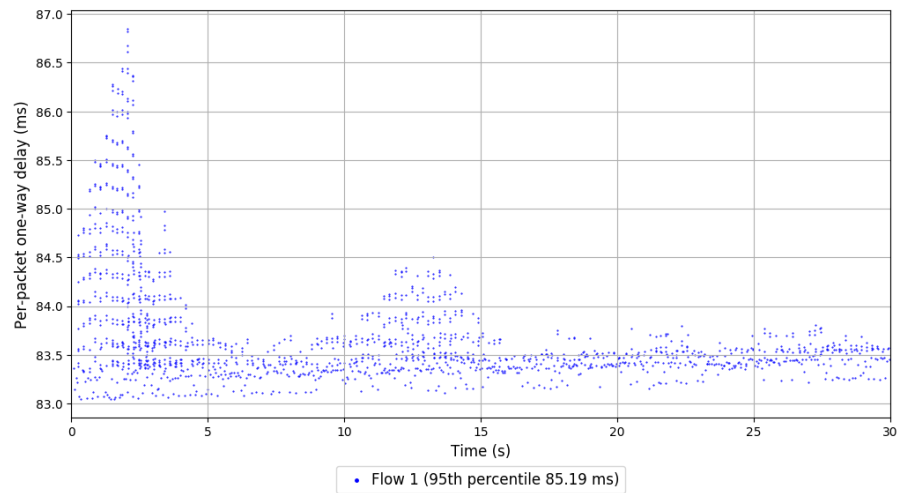
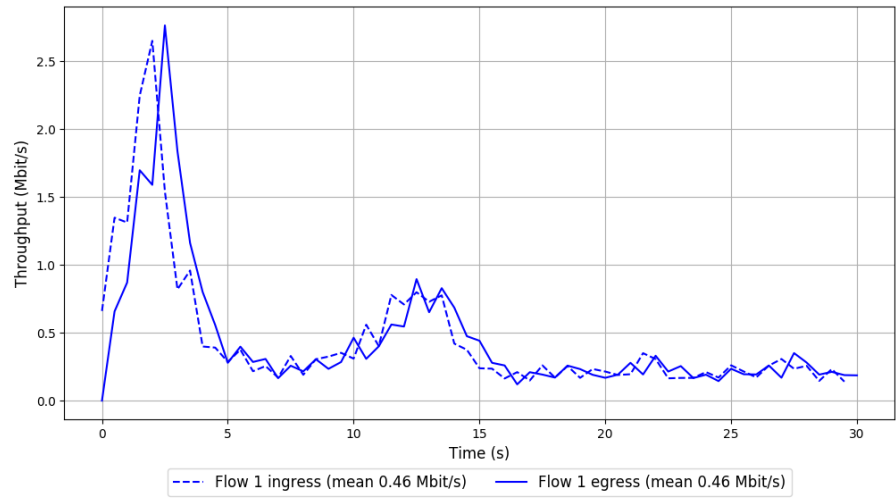
-- Flow 1:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 85.192 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-06-18 10:35:40

End at: 2018-06-18 10:36:10

Local clock offset: -1.997 ms

Remote clock offset: 8.425 ms

Below is generated by plot.py at 2018-06-18 12:09:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 84.312 ms

Loss rate: 0.00%

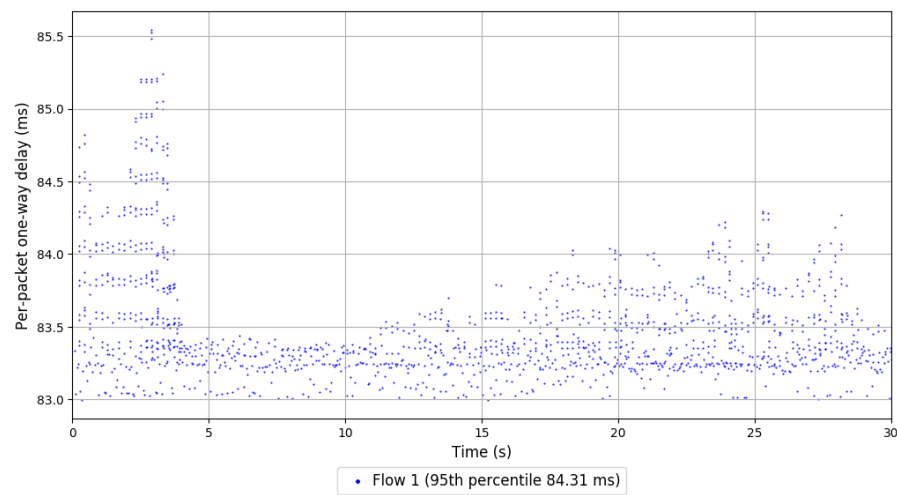
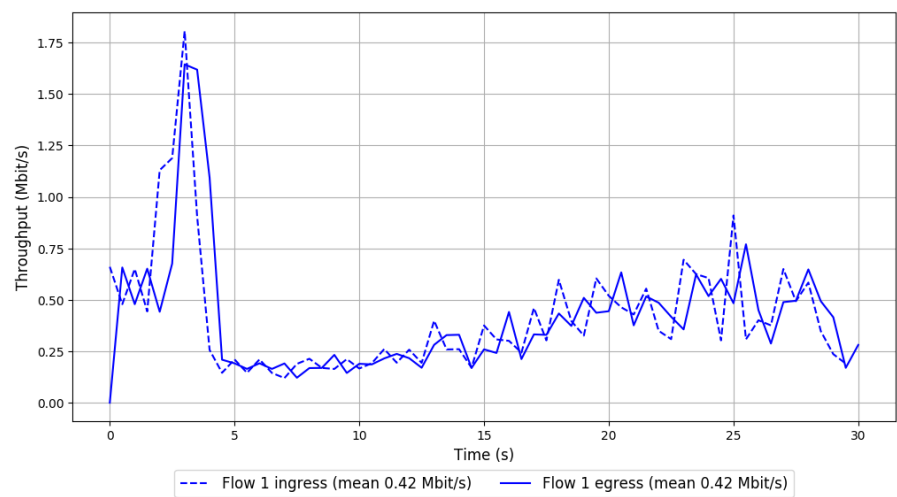
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 84.312 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

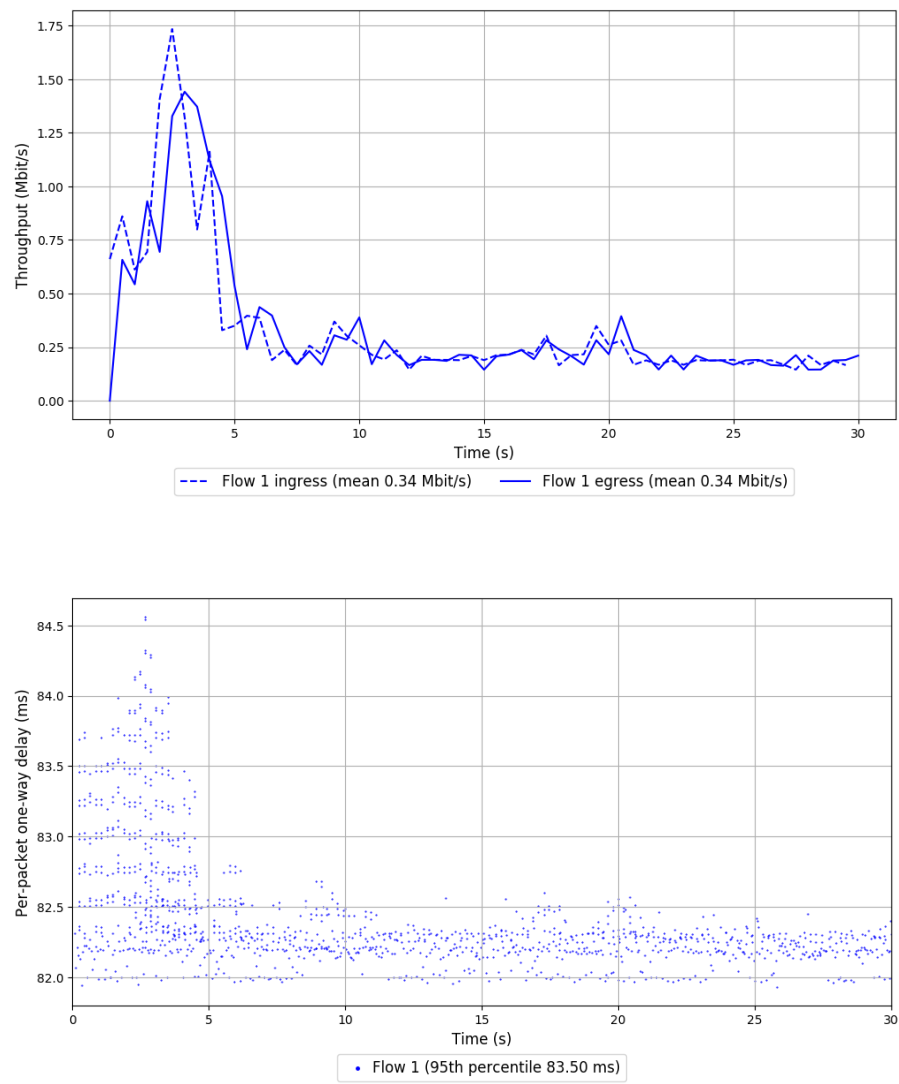


Run 7: Statistics of Sprout

Start at: 2018-06-18 10:54:24
End at: 2018-06-18 10:54:54
Local clock offset: -2.477 ms
Remote clock offset: 6.269 ms

Below is generated by plot.py at 2018-06-18 12:09:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 83.503 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 83.503 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

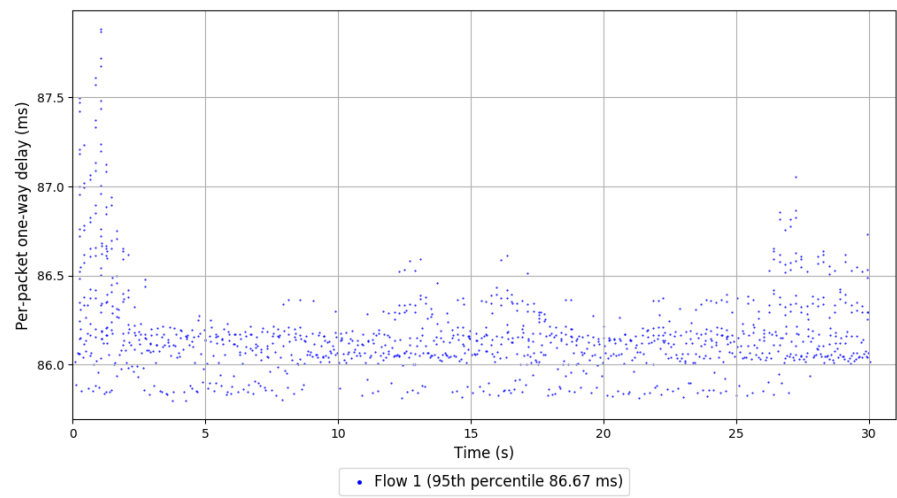
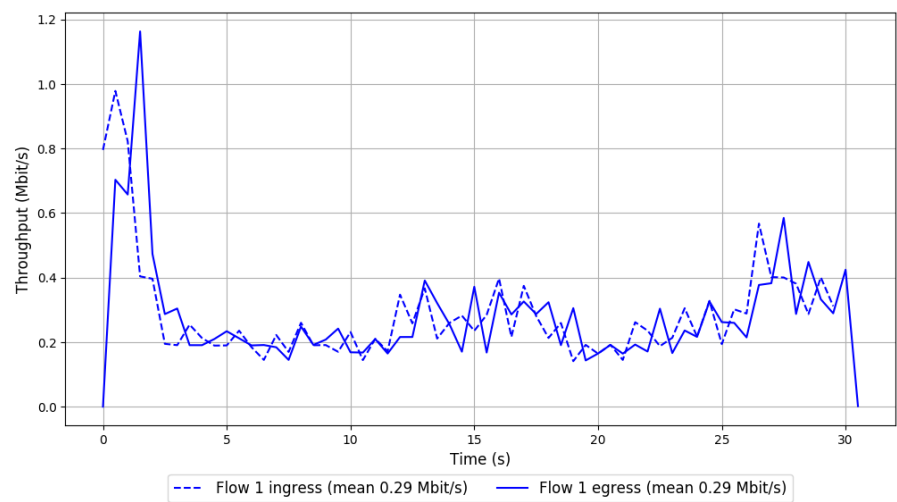


Run 8: Statistics of Sprout

Start at: 2018-06-18 11:13:05
End at: 2018-06-18 11:13:35
Local clock offset: -2.781 ms
Remote clock offset: 10.456 ms

Below is generated by plot.py at 2018-06-18 12:09:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 86.668 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 86.668 ms
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-06-18 11:31:49

End at: 2018-06-18 11:32:19

Local clock offset: -2.922 ms

Remote clock offset: 4.653 ms

Below is generated by plot.py at 2018-06-18 12:09:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 83.592 ms

Loss rate: 0.00%

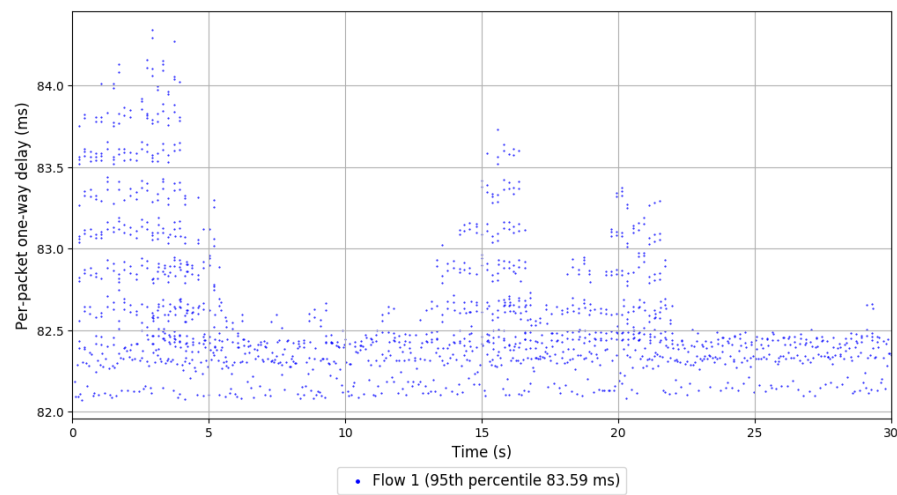
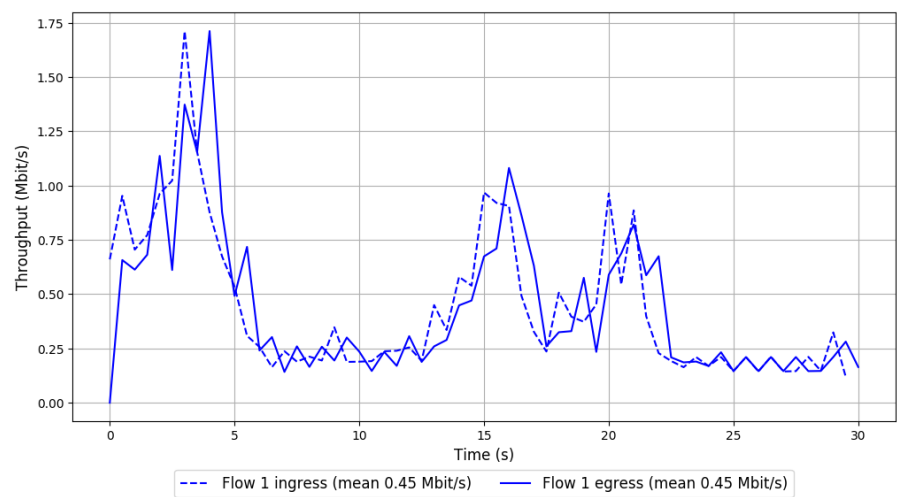
-- Flow 1:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 83.592 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-06-18 11:50:32

End at: 2018-06-18 11:51:02

Local clock offset: -6.642 ms

Remote clock offset: 7.57 ms

Below is generated by plot.py at 2018-06-18 12:09:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 84.960 ms

Loss rate: 0.00%

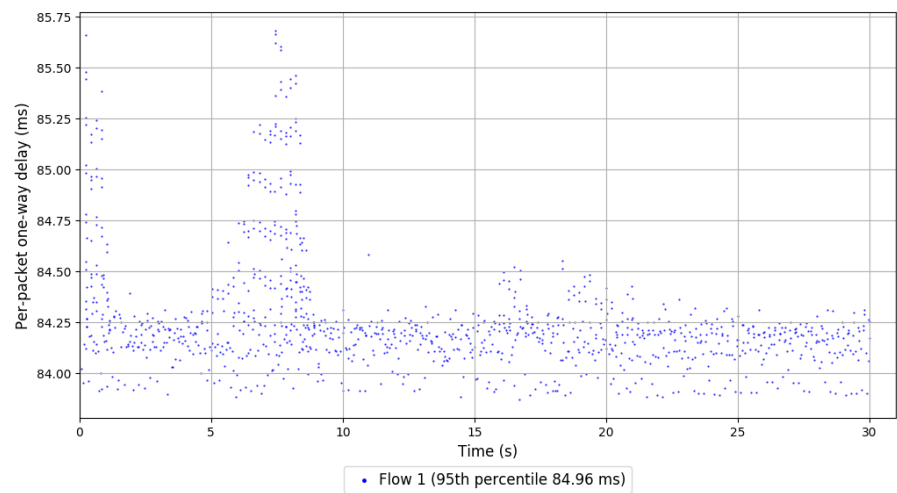
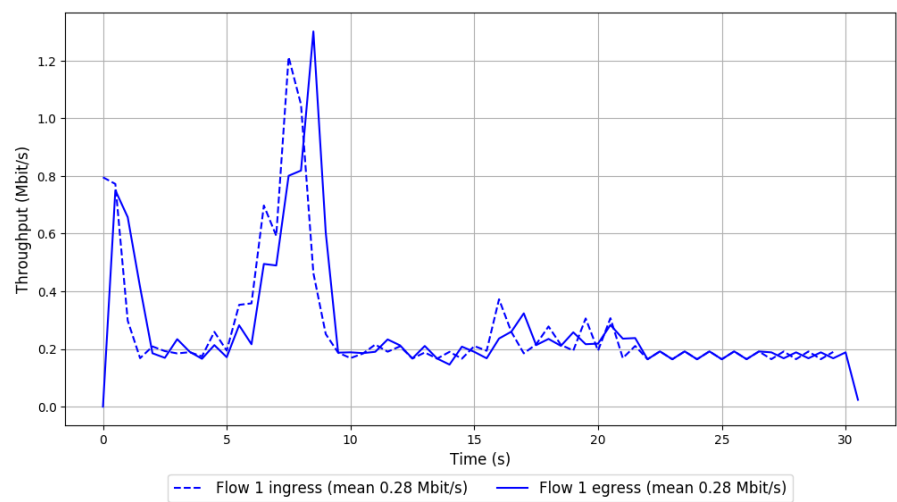
-- Flow 1:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 84.960 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

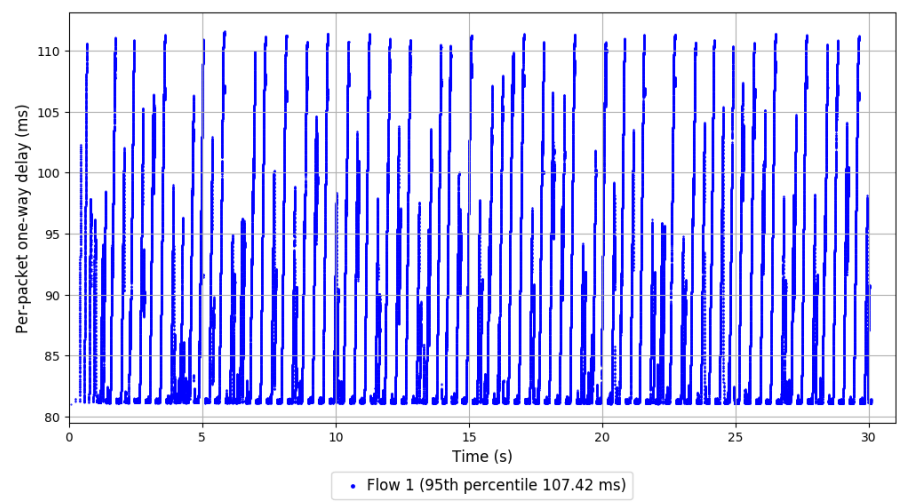
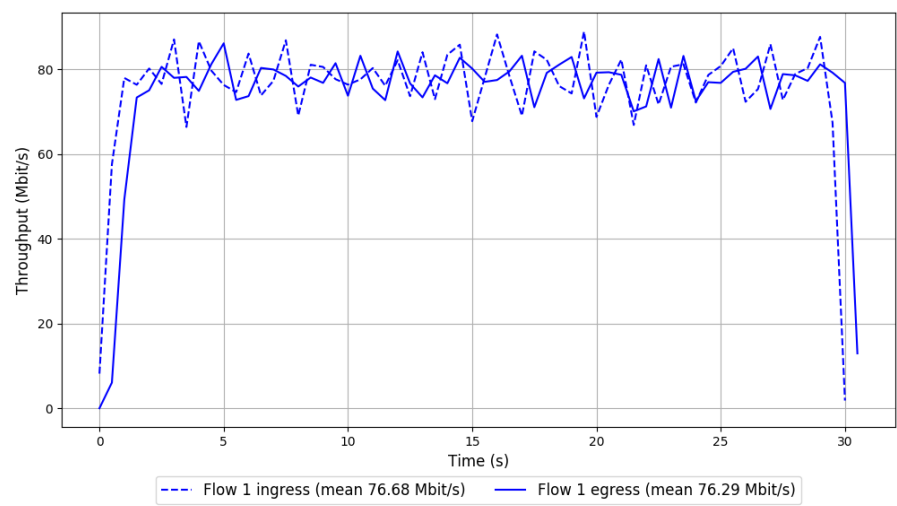


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-18 08:55:20
End at: 2018-06-18 08:55:50
Local clock offset: -1.639 ms
Remote clock offset: 6.035 ms

# Below is generated by plot.py at 2018-06-18 12:10:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.29 Mbit/s
95th percentile per-packet one-way delay: 107.419 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 76.29 Mbit/s
95th percentile per-packet one-way delay: 107.419 ms
Loss rate: 0.50%
```

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

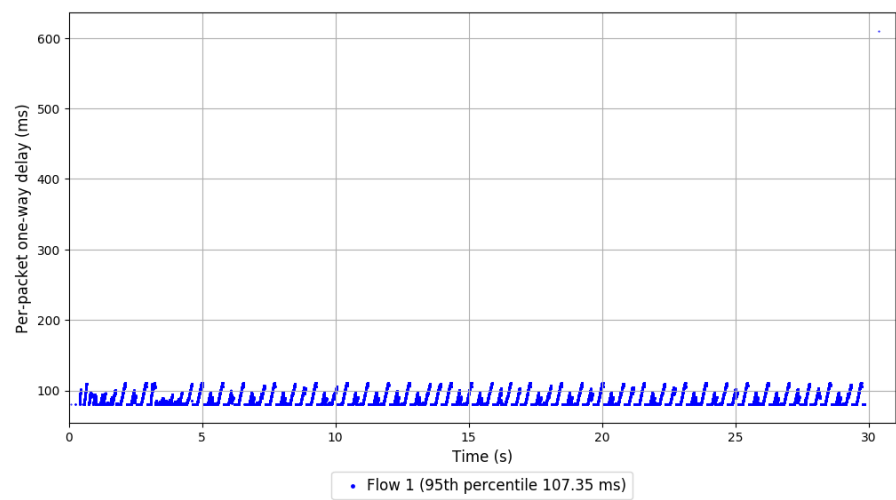
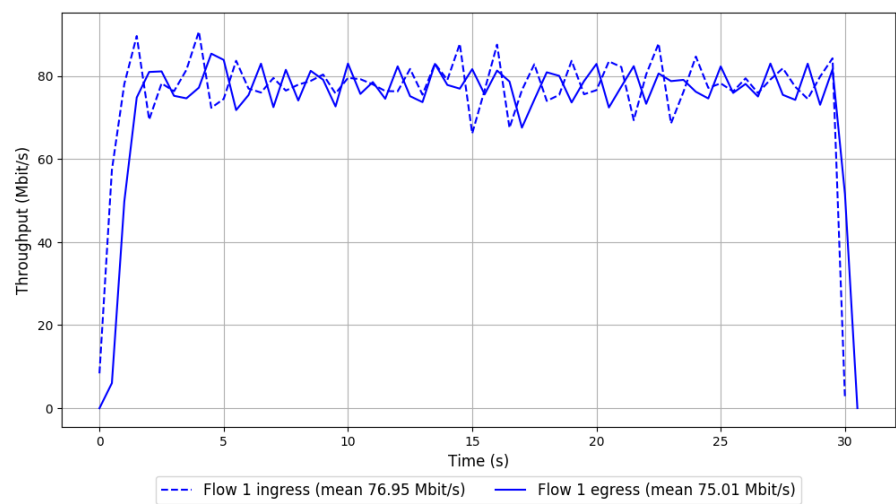


Run 2: Statistics of TaoVA-100x

Start at: 2018-06-18 09:13:59
End at: 2018-06-18 09:14:29
Local clock offset: -5.832 ms
Remote clock offset: 11.167 ms

Below is generated by plot.py at 2018-06-18 12:10:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 75.01 Mbit/s
95th percentile per-packet one-way delay: 107.350 ms
Loss rate: 1.64%
-- Flow 1:
Average throughput: 75.01 Mbit/s
95th percentile per-packet one-way delay: 107.350 ms
Loss rate: 1.64%

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

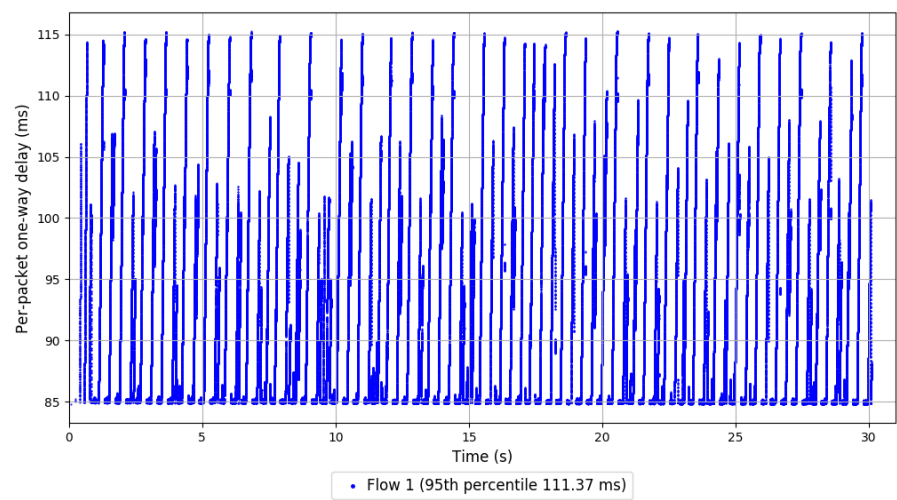
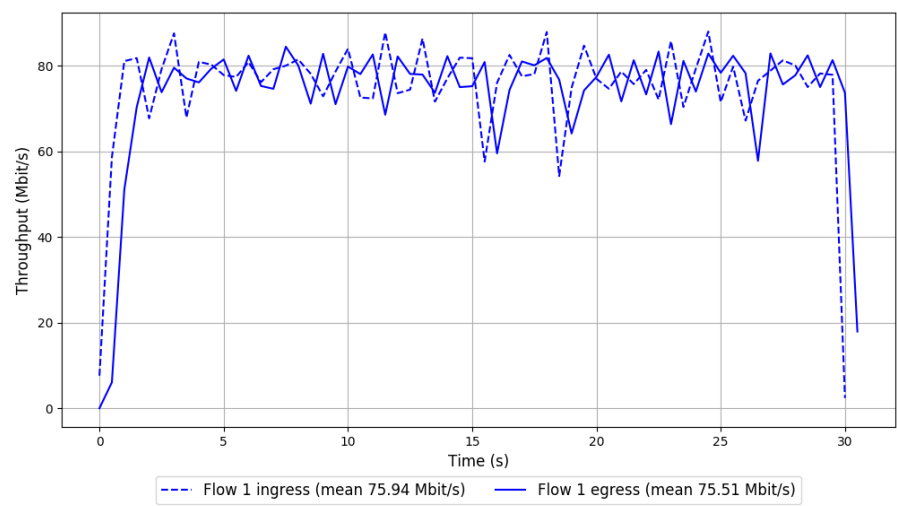


Run 3: Statistics of TaoVA-100x

Start at: 2018-06-18 09:32:39
End at: 2018-06-18 09:33:09
Local clock offset: -8.333 ms
Remote clock offset: 16.917 ms

Below is generated by plot.py at 2018-06-18 12:10:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 75.51 Mbit/s
95th percentile per-packet one-way delay: 111.373 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 75.51 Mbit/s
95th percentile per-packet one-way delay: 111.373 ms
Loss rate: 0.55%

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

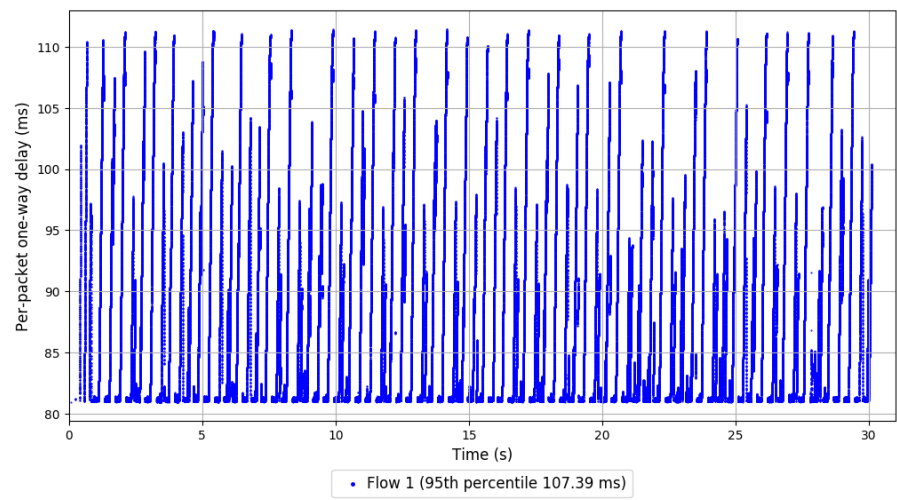
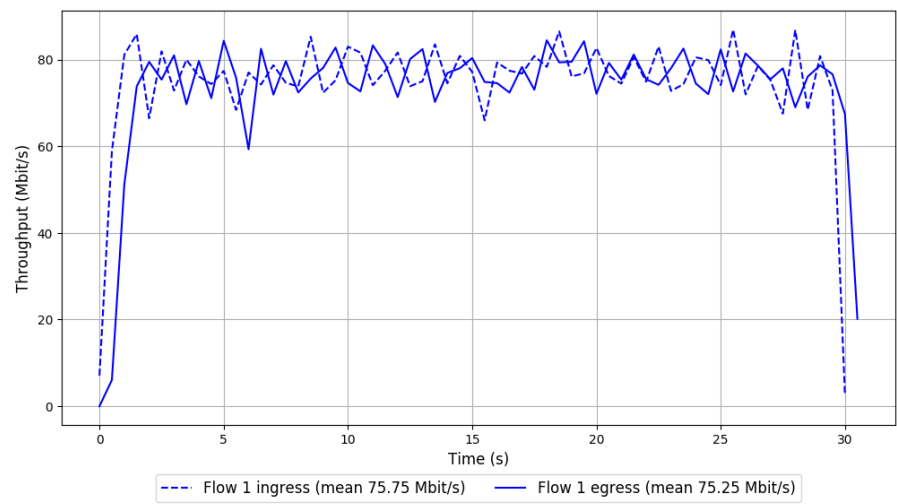


Run 4: Statistics of TaoVA-100x

Start at: 2018-06-18 09:51:18
End at: 2018-06-18 09:51:48
Local clock offset: -7.504 ms
Remote clock offset: 10.313 ms

Below is generated by plot.py at 2018-06-18 12:10:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 75.25 Mbit/s
95th percentile per-packet one-way delay: 107.390 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 75.25 Mbit/s
95th percentile per-packet one-way delay: 107.390 ms
Loss rate: 0.60%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-06-18 10:10:00

End at: 2018-06-18 10:10:30

Local clock offset: -5.096 ms

Remote clock offset: 9.707 ms

Below is generated by plot.py at 2018-06-18 12:10:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.11 Mbit/s

95th percentile per-packet one-way delay: 109.347 ms

Loss rate: 0.69%

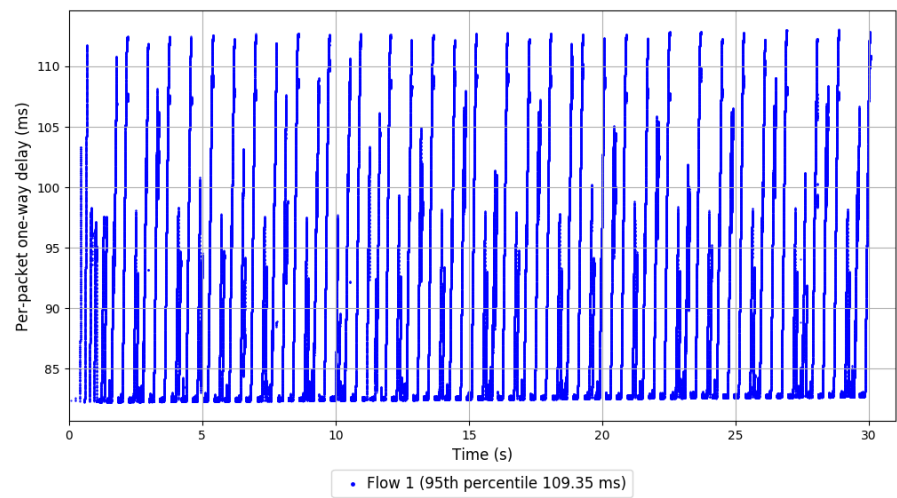
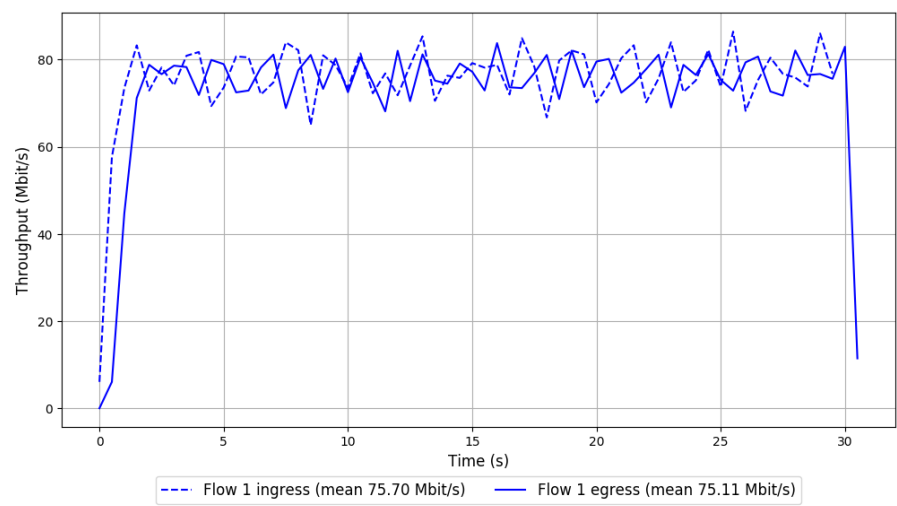
-- Flow 1:

Average throughput: 75.11 Mbit/s

95th percentile per-packet one-way delay: 109.347 ms

Loss rate: 0.69%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-06-18 10:28:37

End at: 2018-06-18 10:29:07

Local clock offset: -2.112 ms

Remote clock offset: 5.062 ms

Below is generated by plot.py at 2018-06-18 12:10:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.01 Mbit/s

95th percentile per-packet one-way delay: 108.519 ms

Loss rate: 0.68%

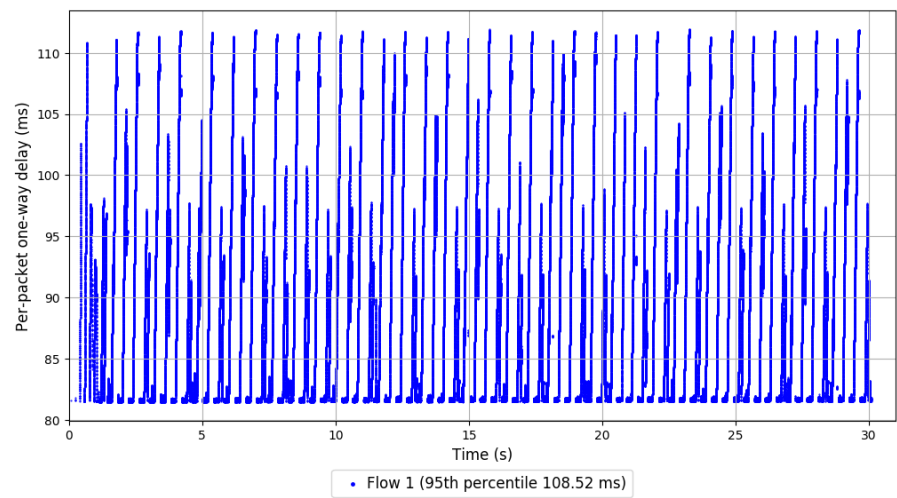
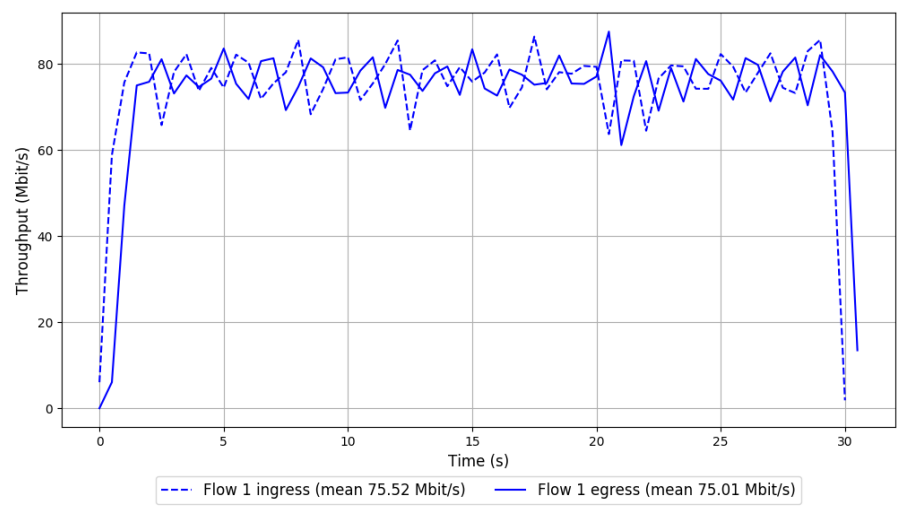
-- Flow 1:

Average throughput: 75.01 Mbit/s

95th percentile per-packet one-way delay: 108.519 ms

Loss rate: 0.68%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-06-18 10:47:20

End at: 2018-06-18 10:47:50

Local clock offset: -2.456 ms

Remote clock offset: 4.704 ms

Below is generated by plot.py at 2018-06-18 12:10:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.44 Mbit/s

95th percentile per-packet one-way delay: 115.751 ms

Loss rate: 1.13%

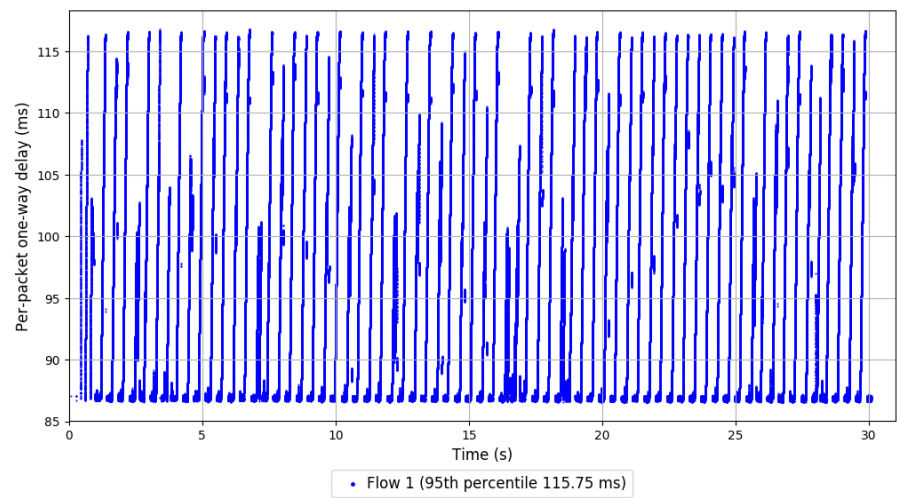
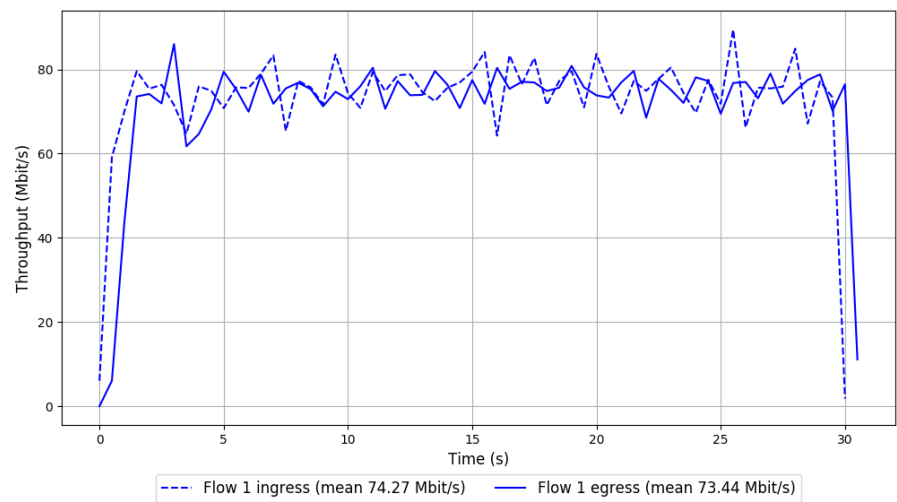
-- Flow 1:

Average throughput: 73.44 Mbit/s

95th percentile per-packet one-way delay: 115.751 ms

Loss rate: 1.13%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-06-18 11:06:01

End at: 2018-06-18 11:06:31

Local clock offset: -2.519 ms

Remote clock offset: 6.484 ms

Below is generated by plot.py at 2018-06-18 12:11:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.25 Mbit/s

95th percentile per-packet one-way delay: 108.162 ms

Loss rate: 0.58%

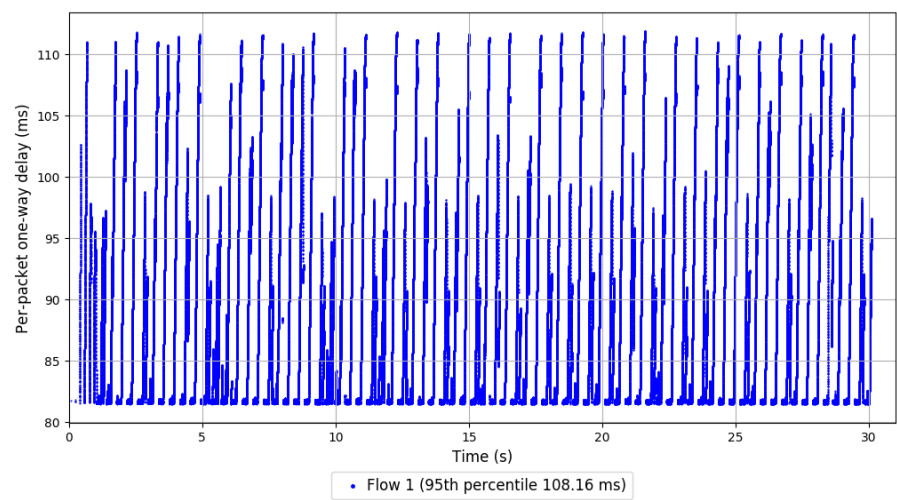
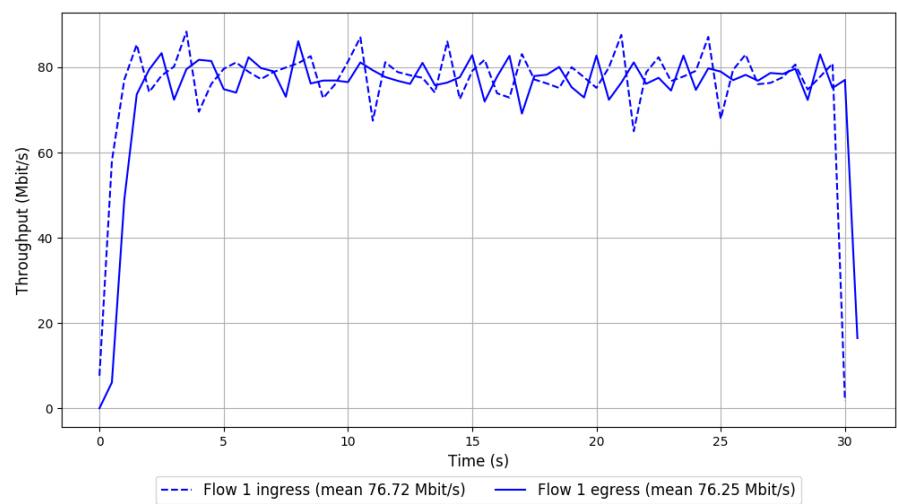
-- Flow 1:

Average throughput: 76.25 Mbit/s

95th percentile per-packet one-way delay: 108.162 ms

Loss rate: 0.58%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-06-18 11:24:42

End at: 2018-06-18 11:25:12

Local clock offset: -2.86 ms

Remote clock offset: 9.214 ms

Below is generated by plot.py at 2018-06-18 12:12:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.62 Mbit/s

95th percentile per-packet one-way delay: 111.596 ms

Loss rate: 0.64%

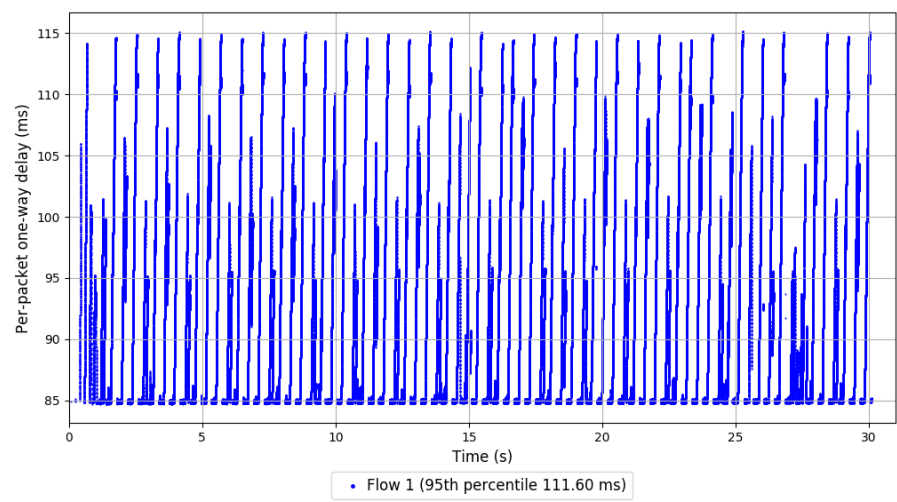
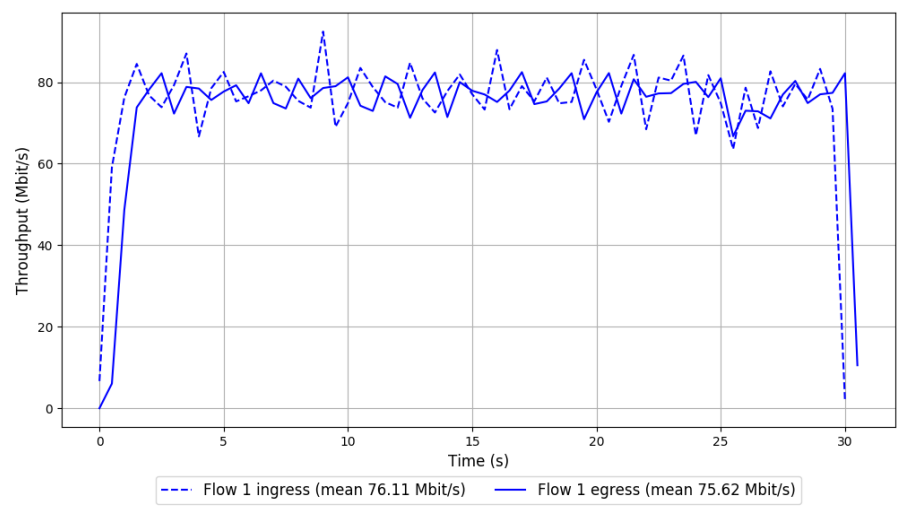
-- Flow 1:

Average throughput: 75.62 Mbit/s

95th percentile per-packet one-way delay: 111.596 ms

Loss rate: 0.64%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-06-18 11:43:27

End at: 2018-06-18 11:43:57

Local clock offset: -5.719 ms

Remote clock offset: 9.03 ms

Below is generated by plot.py at 2018-06-18 12:12:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.84 Mbit/s

95th percentile per-packet one-way delay: 113.417 ms

Loss rate: 0.63%

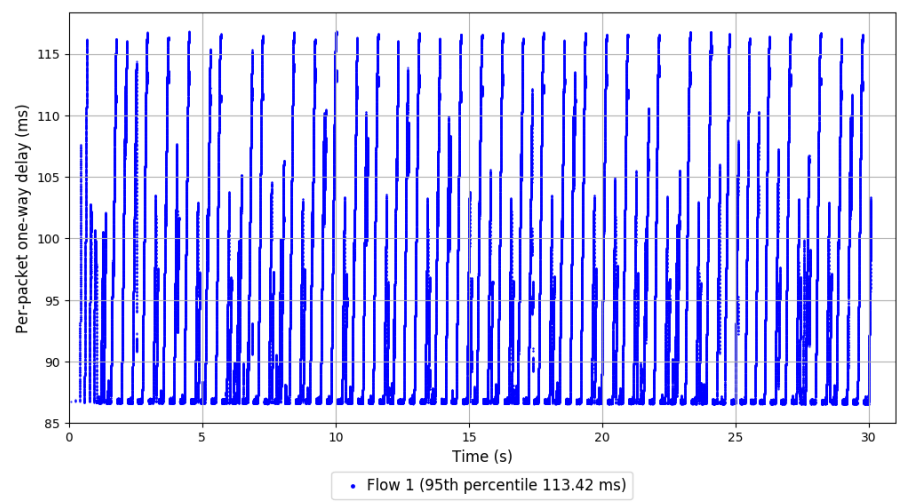
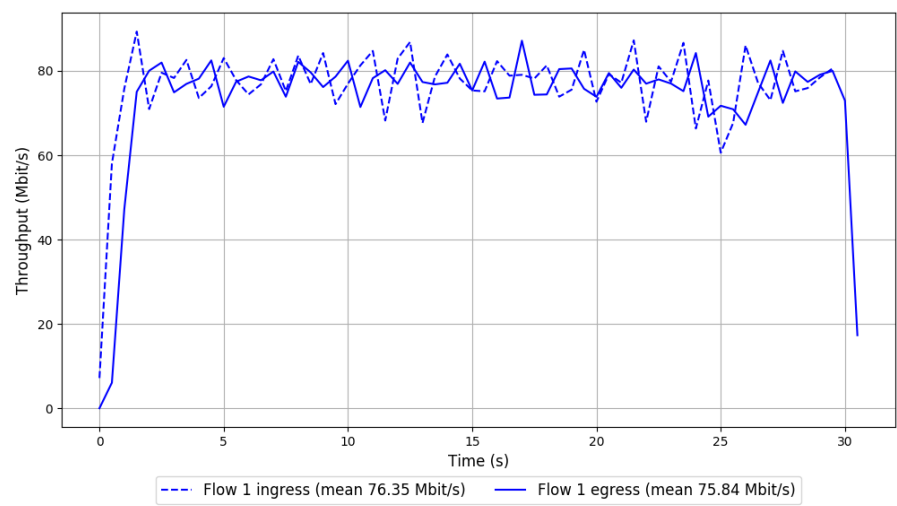
-- Flow 1:

Average throughput: 75.84 Mbit/s

95th percentile per-packet one-way delay: 113.417 ms

Loss rate: 0.63%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-06-18 09:01:16

End at: 2018-06-18 09:01:46

Local clock offset: -2.287 ms

Remote clock offset: 9.309 ms

Below is generated by plot.py at 2018-06-18 12:12:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.64 Mbit/s

95th percentile per-packet one-way delay: 85.757 ms

Loss rate: 0.63%

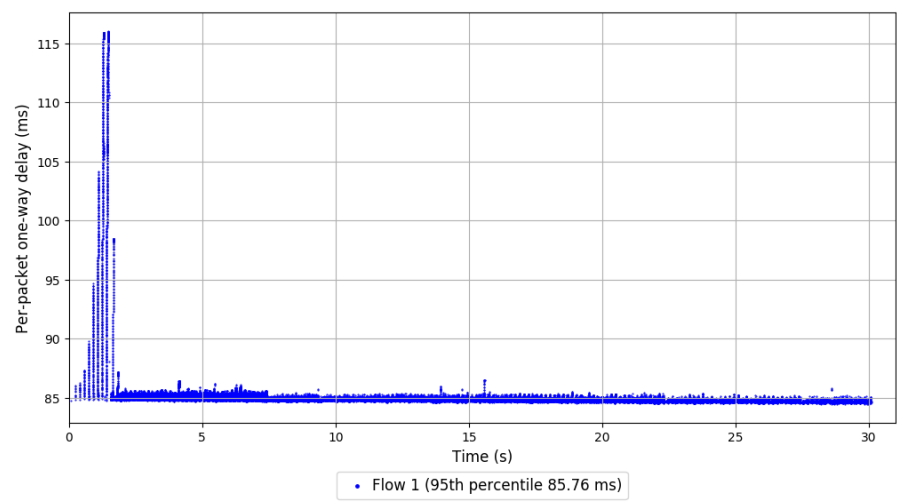
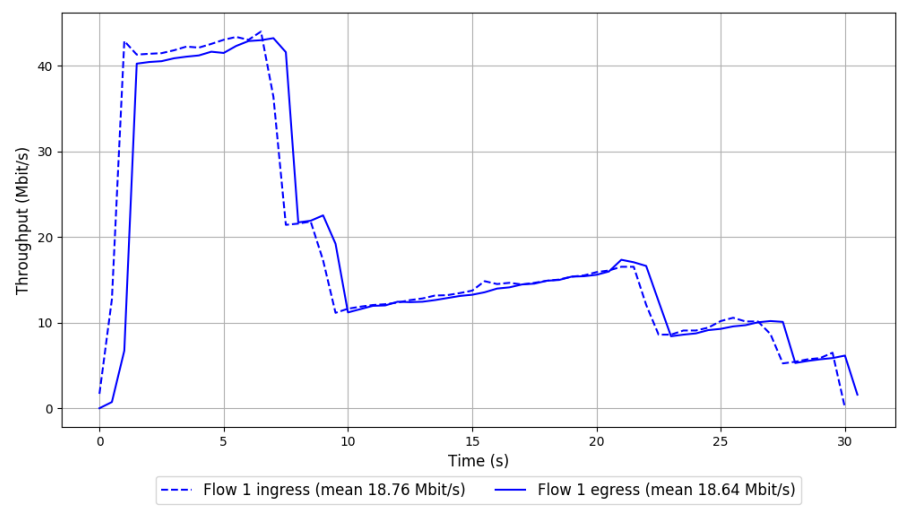
-- Flow 1:

Average throughput: 18.64 Mbit/s

95th percentile per-packet one-way delay: 85.757 ms

Loss rate: 0.63%

Run 1: Report of TCP Vegas — Data Link

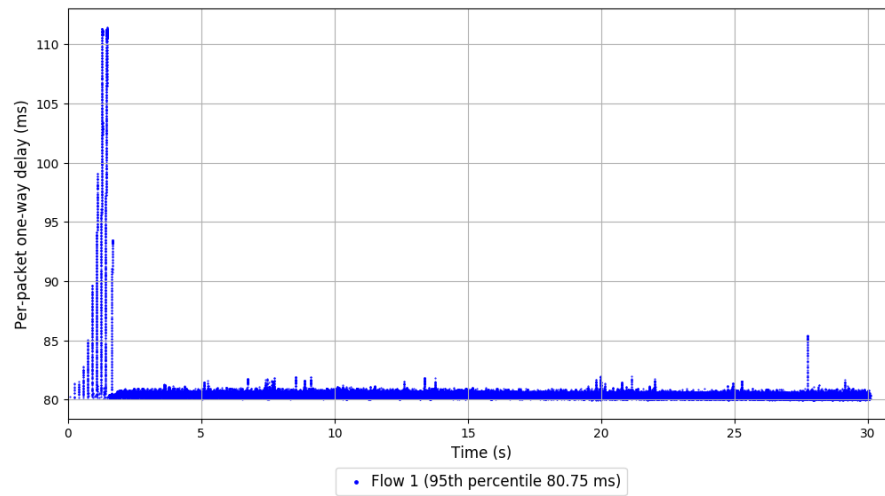
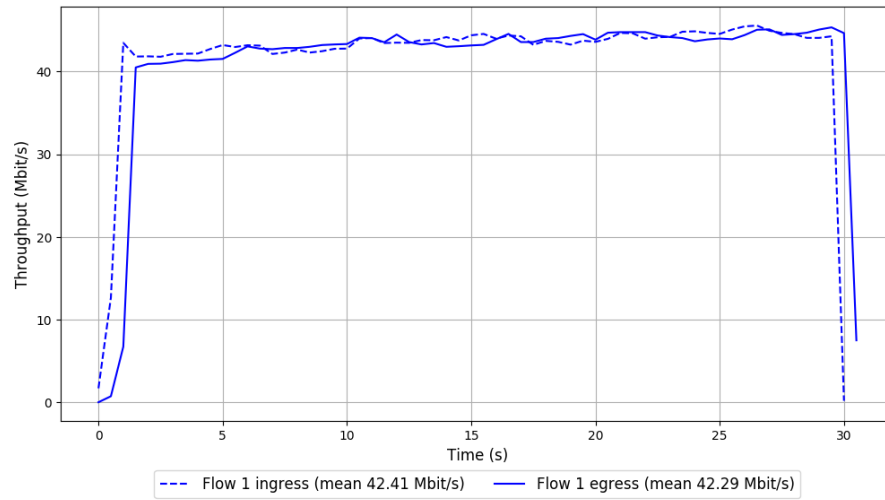


Run 2: Statistics of TCP Vegas

Start at: 2018-06-18 09:19:53
End at: 2018-06-18 09:20:23
Local clock offset: -6.891 ms
Remote clock offset: 12.178 ms

Below is generated by plot.py at 2018-06-18 12:12:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 42.29 Mbit/s
95th percentile per-packet one-way delay: 80.753 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 42.29 Mbit/s
95th percentile per-packet one-way delay: 80.753 ms
Loss rate: 0.28%

Run 2: Report of TCP Vegas — Data Link

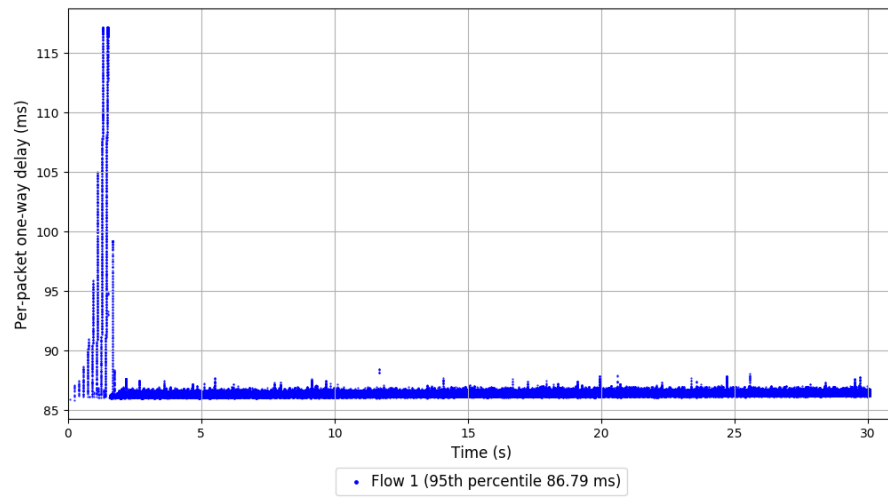
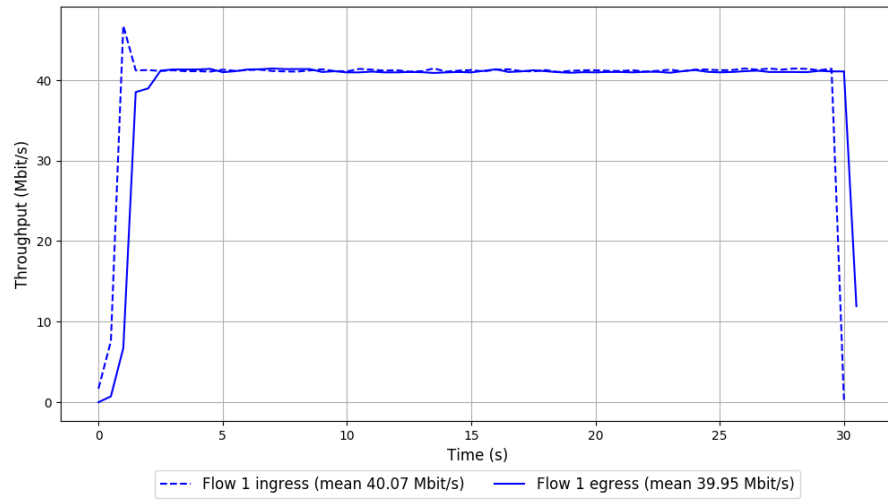


Run 3: Statistics of TCP Vegas

Start at: 2018-06-18 09:38:34
End at: 2018-06-18 09:39:04
Local clock offset: -7.888 ms
Remote clock offset: 16.725 ms

Below is generated by plot.py at 2018-06-18 12:12:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 39.95 Mbit/s
95th percentile per-packet one-way delay: 86.794 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 39.95 Mbit/s
95th percentile per-packet one-way delay: 86.794 ms
Loss rate: 0.31%

Run 3: Report of TCP Vegas — Data Link

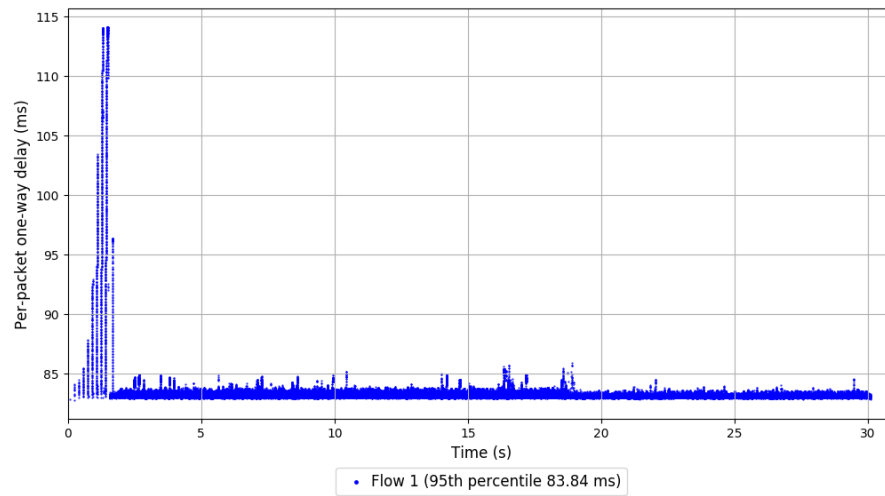
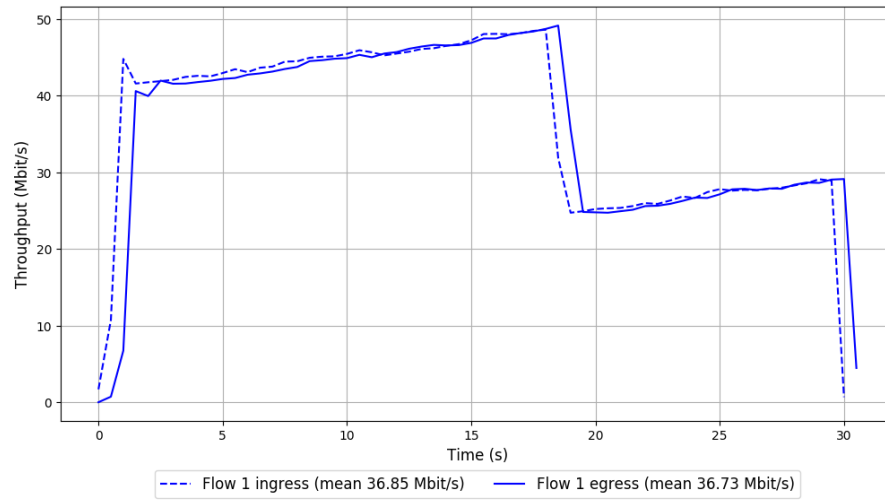


Run 4: Statistics of TCP Vegas

Start at: 2018-06-18 09:57:15
End at: 2018-06-18 09:57:45
Local clock offset: -7.704 ms
Remote clock offset: 11.251 ms

Below is generated by plot.py at 2018-06-18 12:12:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 36.73 Mbit/s
95th percentile per-packet one-way delay: 83.843 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 36.73 Mbit/s
95th percentile per-packet one-way delay: 83.843 ms
Loss rate: 0.34%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-06-18 10:15:55

End at: 2018-06-18 10:16:25

Local clock offset: -3.621 ms

Remote clock offset: 7.292 ms

Below is generated by plot.py at 2018-06-18 12:12:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.92 Mbit/s

95th percentile per-packet one-way delay: 80.237 ms

Loss rate: 0.30%

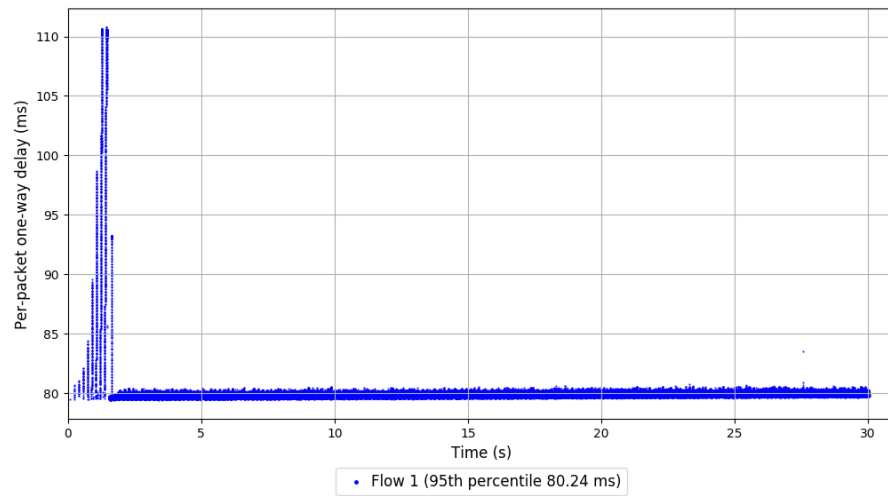
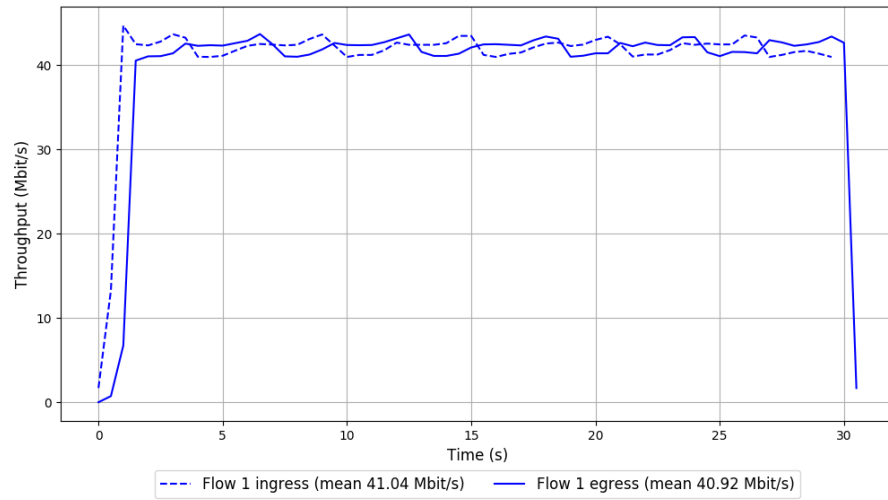
-- Flow 1:

Average throughput: 40.92 Mbit/s

95th percentile per-packet one-way delay: 80.237 ms

Loss rate: 0.30%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-06-18 10:34:32

End at: 2018-06-18 10:35:02

Local clock offset: -1.824 ms

Remote clock offset: 5.627 ms

Below is generated by plot.py at 2018-06-18 12:12:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.52 Mbit/s

95th percentile per-packet one-way delay: 82.822 ms

Loss rate: 0.71%

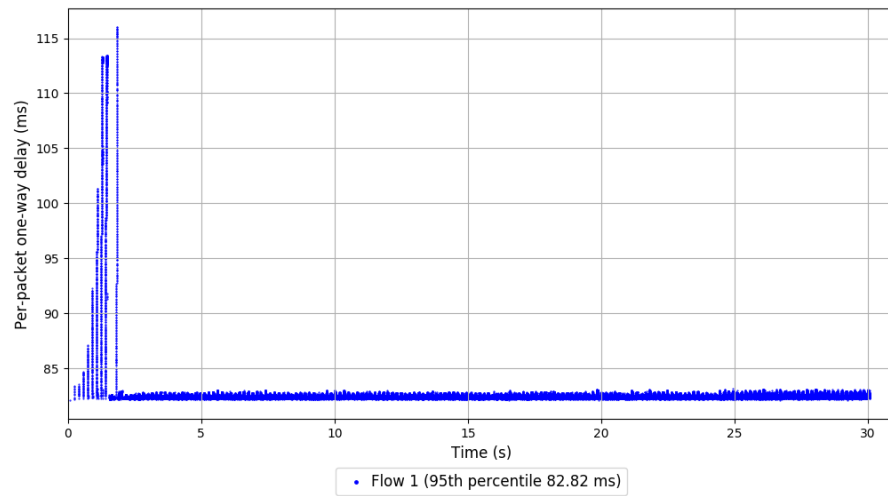
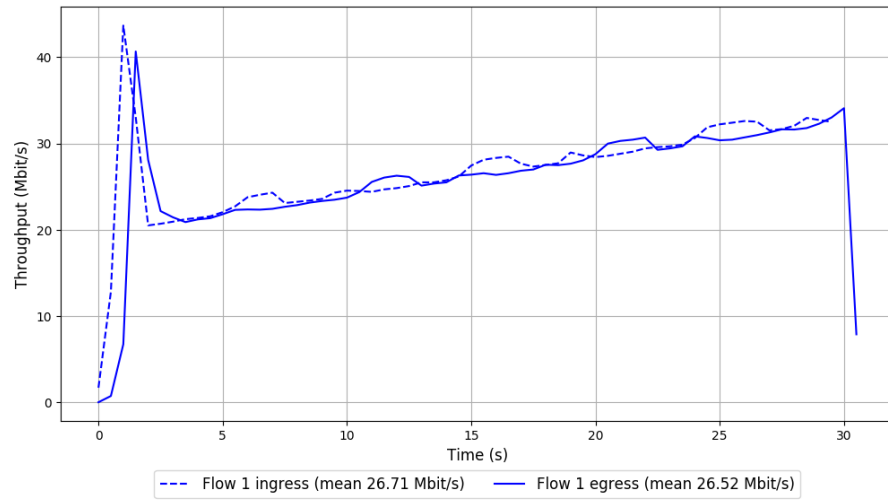
-- Flow 1:

Average throughput: 26.52 Mbit/s

95th percentile per-packet one-way delay: 82.822 ms

Loss rate: 0.71%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-06-18 10:53:15

End at: 2018-06-18 10:53:45

Local clock offset: -2.55 ms

Remote clock offset: 6.097 ms

Below is generated by plot.py at 2018-06-18 12:12:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.16 Mbit/s

95th percentile per-packet one-way delay: 81.234 ms

Loss rate: 0.26%

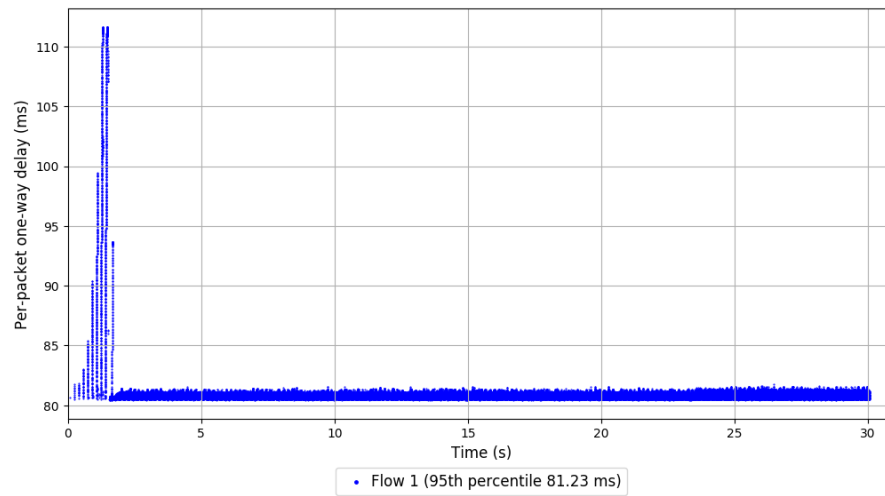
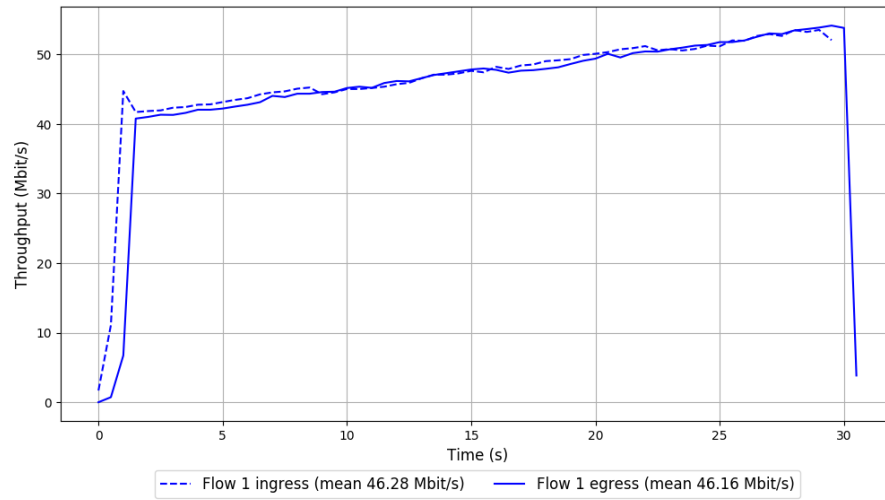
-- Flow 1:

Average throughput: 46.16 Mbit/s

95th percentile per-packet one-way delay: 81.234 ms

Loss rate: 0.26%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-06-18 11:11:56

End at: 2018-06-18 11:12:26

Local clock offset: -2.74 ms

Remote clock offset: 9.3 ms

Below is generated by plot.py at 2018-06-18 12:12:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.32 Mbit/s

95th percentile per-packet one-way delay: 85.527 ms

Loss rate: 0.27%

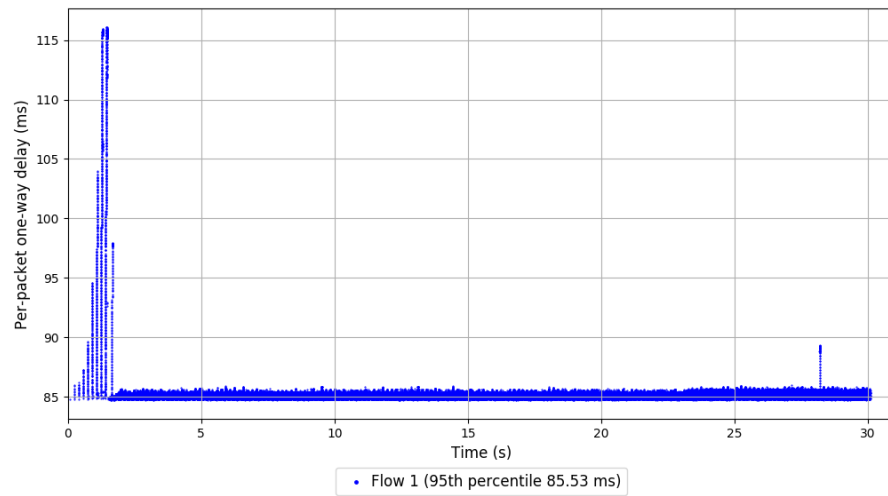
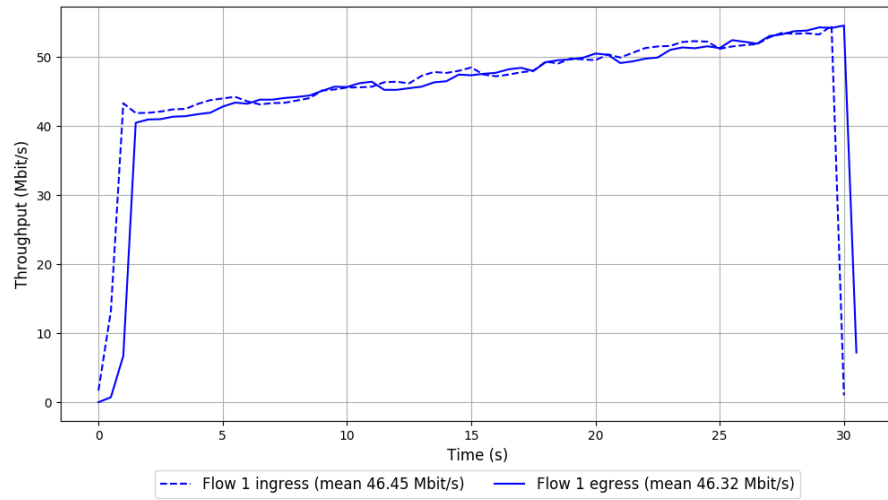
-- Flow 1:

Average throughput: 46.32 Mbit/s

95th percentile per-packet one-way delay: 85.527 ms

Loss rate: 0.27%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-06-18 11:30:40

End at: 2018-06-18 11:31:10

Local clock offset: -2.857 ms

Remote clock offset: 4.685 ms

Below is generated by plot.py at 2018-06-18 12:12:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.88 Mbit/s

95th percentile per-packet one-way delay: 80.951 ms

Loss rate: 0.30%

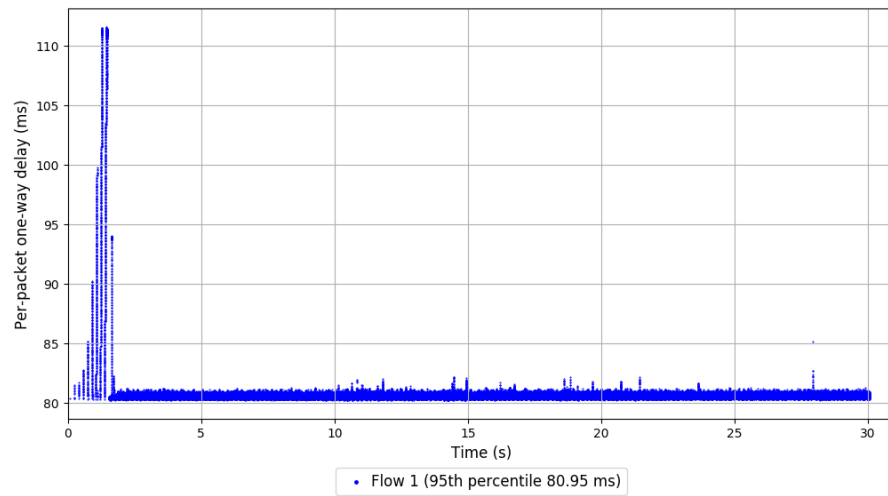
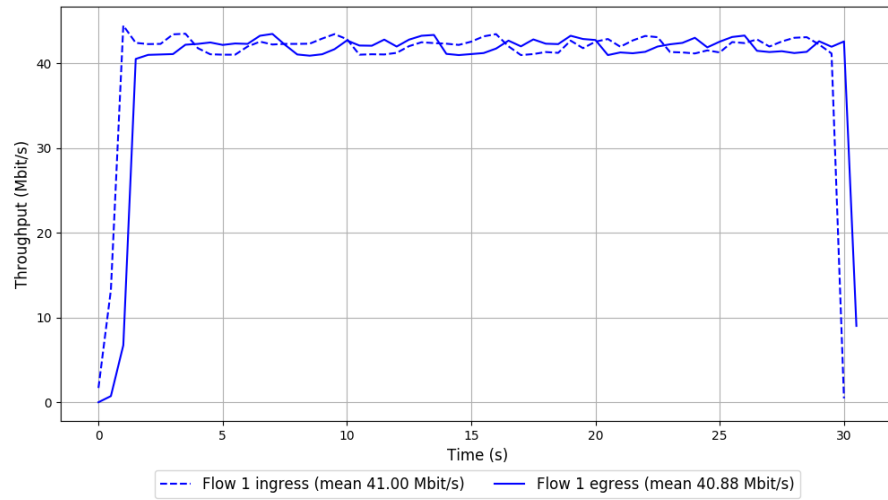
-- Flow 1:

Average throughput: 40.88 Mbit/s

95th percentile per-packet one-way delay: 80.951 ms

Loss rate: 0.30%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-06-18 11:49:23

End at: 2018-06-18 11:49:53

Local clock offset: -6.55 ms

Remote clock offset: 2.59 ms

Below is generated by plot.py at 2018-06-18 12:12:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.18 Mbit/s

95th percentile per-packet one-way delay: 82.688 ms

Loss rate: 0.27%

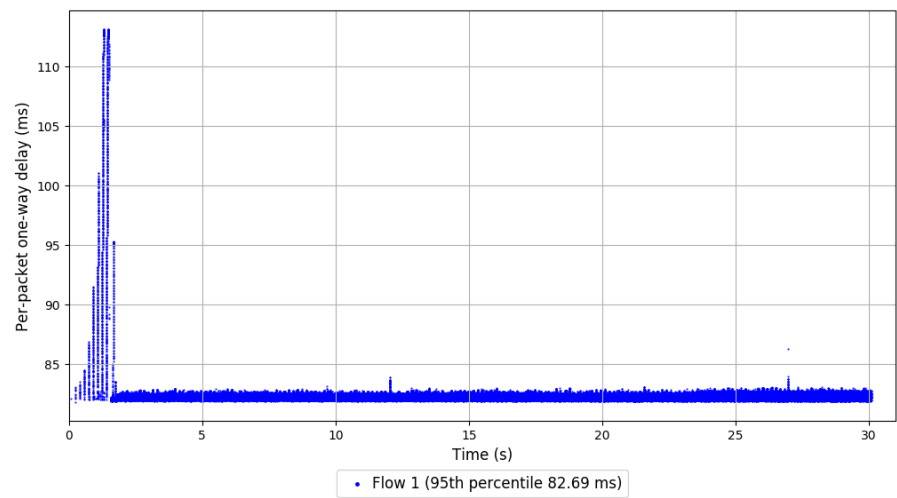
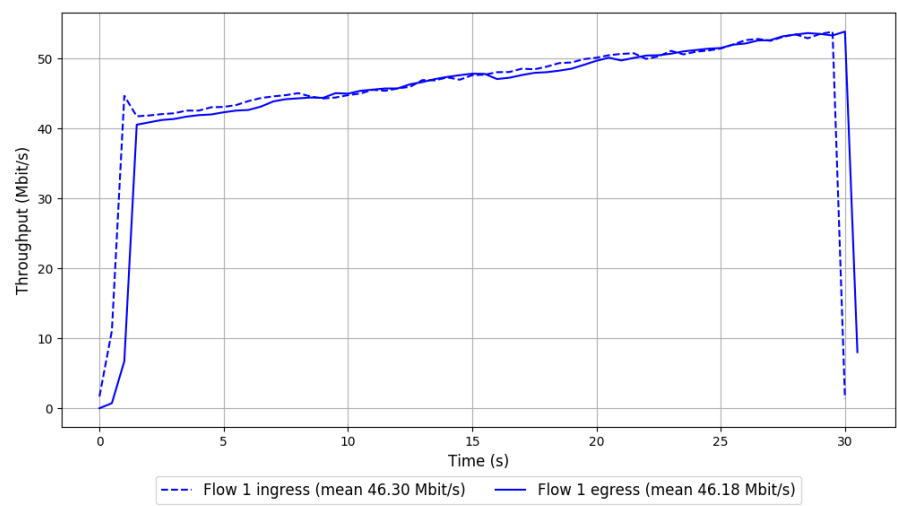
-- Flow 1:

Average throughput: 46.18 Mbit/s

95th percentile per-packet one-way delay: 82.688 ms

Loss rate: 0.27%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-06-18 08:50:42

End at: 2018-06-18 08:51:12

Local clock offset: -0.932 ms

Remote clock offset: 6.102 ms

Below is generated by plot.py at 2018-06-18 12:12:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.90 Mbit/s

95th percentile per-packet one-way delay: 166.353 ms

Loss rate: 73.58%

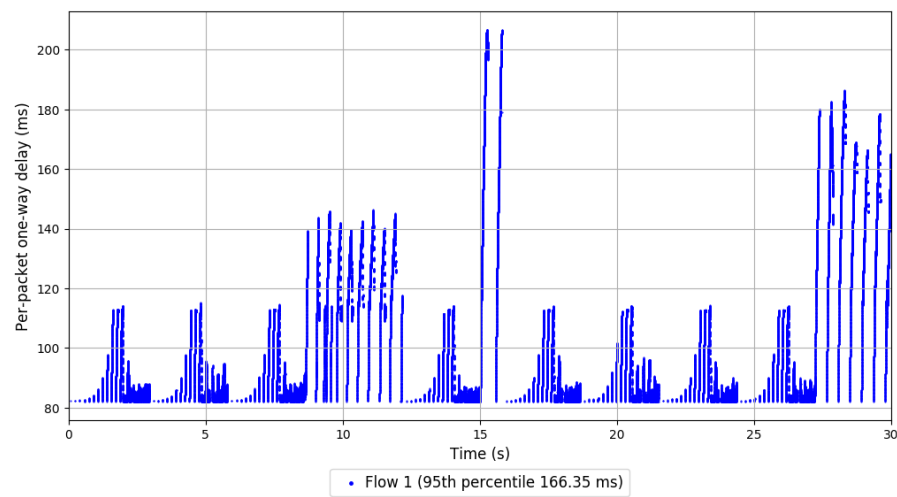
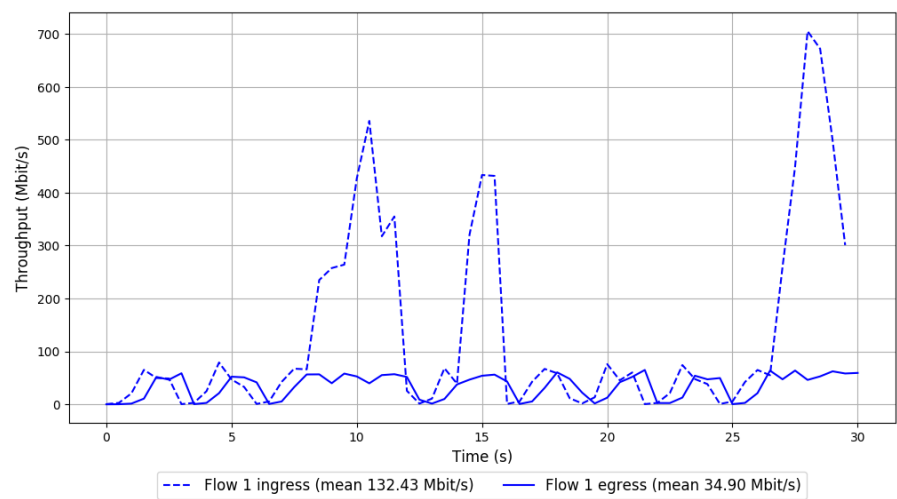
-- Flow 1:

Average throughput: 34.90 Mbit/s

95th percentile per-packet one-way delay: 166.353 ms

Loss rate: 73.58%

Run 1: Report of Verus — Data Link

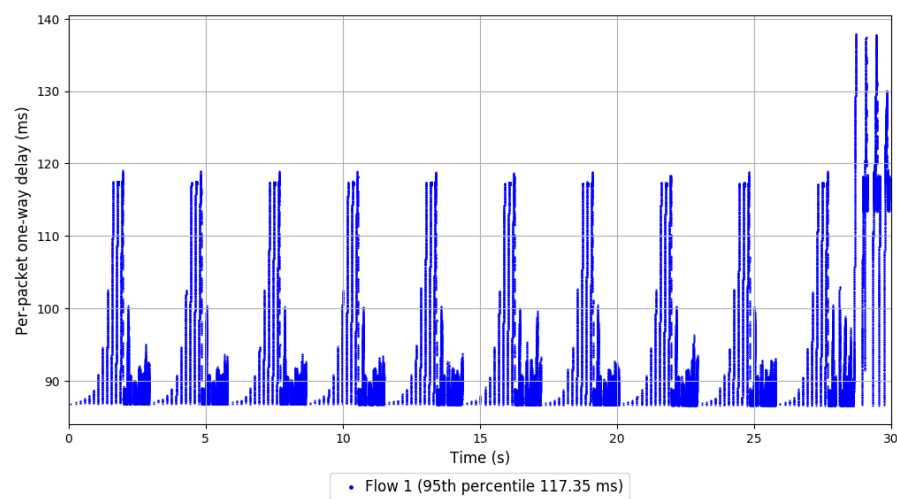
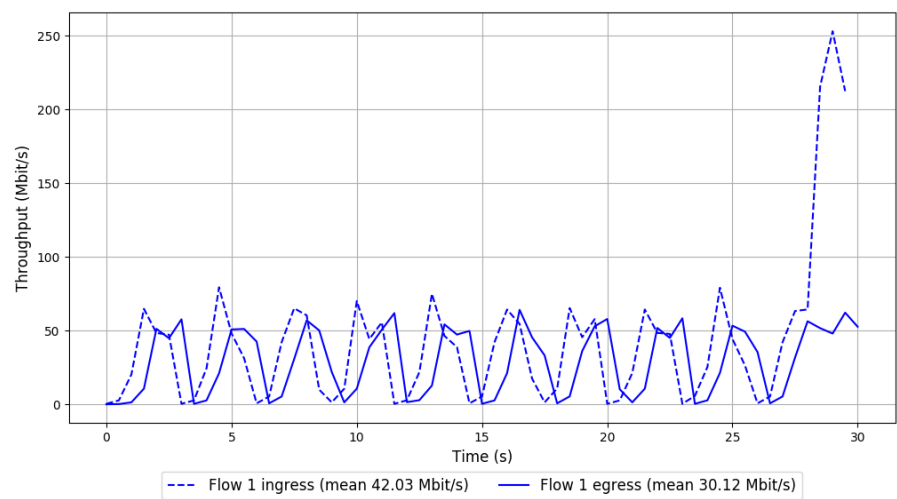


Run 2: Statistics of Verus

Start at: 2018-06-18 09:09:23
End at: 2018-06-18 09:09:53
Local clock offset: -4.576 ms
Remote clock offset: 14.963 ms

Below is generated by plot.py at 2018-06-18 12:12:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 30.12 Mbit/s
95th percentile per-packet one-way delay: 117.351 ms
Loss rate: 28.25%
-- Flow 1:
Average throughput: 30.12 Mbit/s
95th percentile per-packet one-way delay: 117.351 ms
Loss rate: 28.25%

Run 2: Report of Verus — Data Link

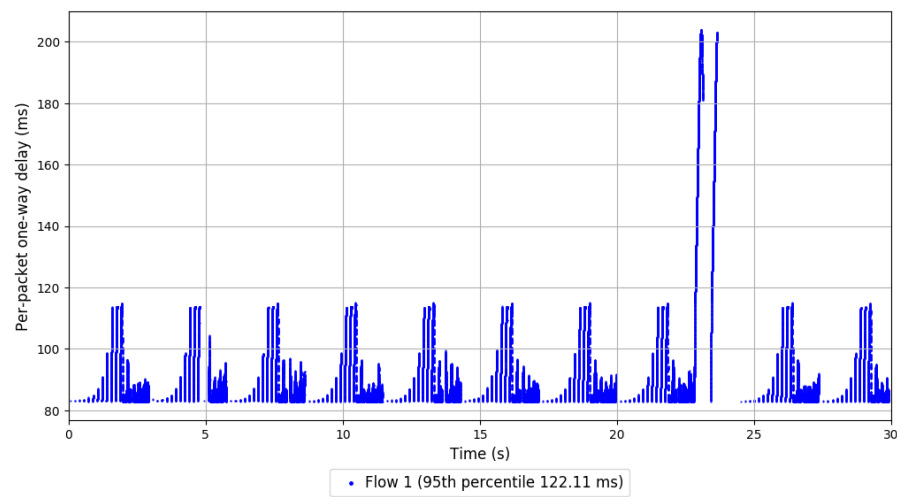
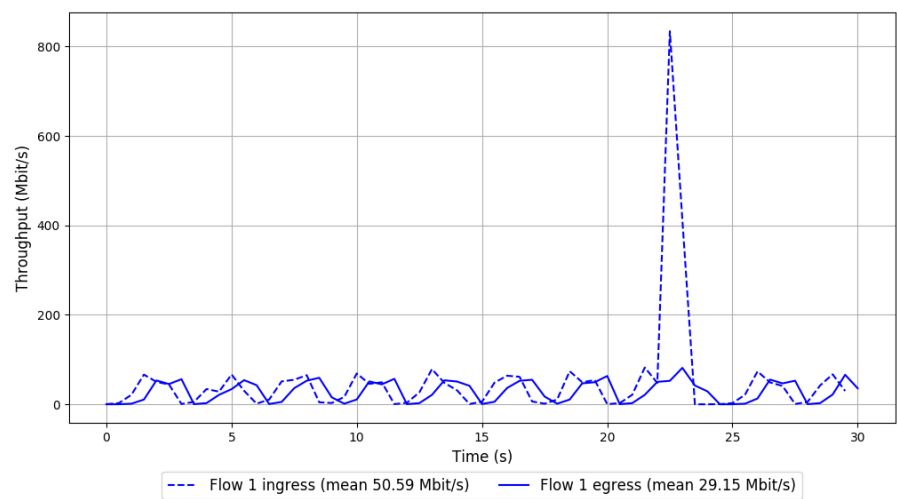


Run 3: Statistics of Verus

Start at: 2018-06-18 09:28:02
End at: 2018-06-18 09:28:32
Local clock offset: -7.9 ms
Remote clock offset: 16.122 ms

Below is generated by plot.py at 2018-06-18 12:12:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 29.15 Mbit/s
95th percentile per-packet one-way delay: 122.107 ms
Loss rate: 42.37%
-- Flow 1:
Average throughput: 29.15 Mbit/s
95th percentile per-packet one-way delay: 122.107 ms
Loss rate: 42.37%

Run 3: Report of Verus — Data Link

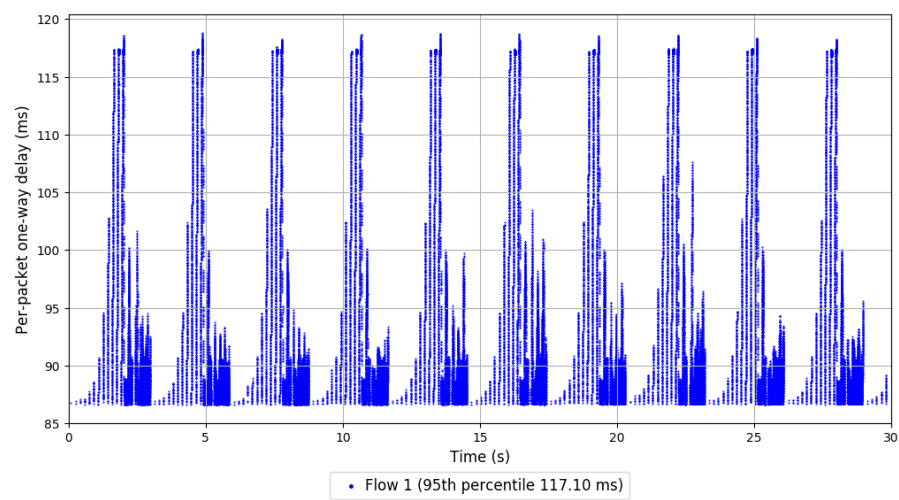
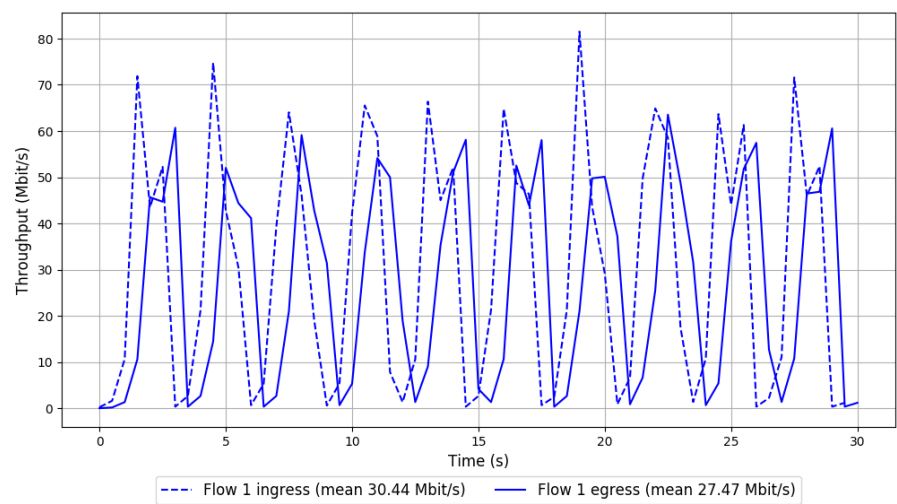


Run 4: Statistics of Verus

Start at: 2018-06-18 09:46:42
End at: 2018-06-18 09:47:12
Local clock offset: -7.505 ms
Remote clock offset: 15.582 ms

Below is generated by plot.py at 2018-06-18 12:12:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 27.47 Mbit/s
95th percentile per-packet one-way delay: 117.101 ms
Loss rate: 9.75%
-- Flow 1:
Average throughput: 27.47 Mbit/s
95th percentile per-packet one-way delay: 117.101 ms
Loss rate: 9.75%

Run 4: Report of Verus — Data Link

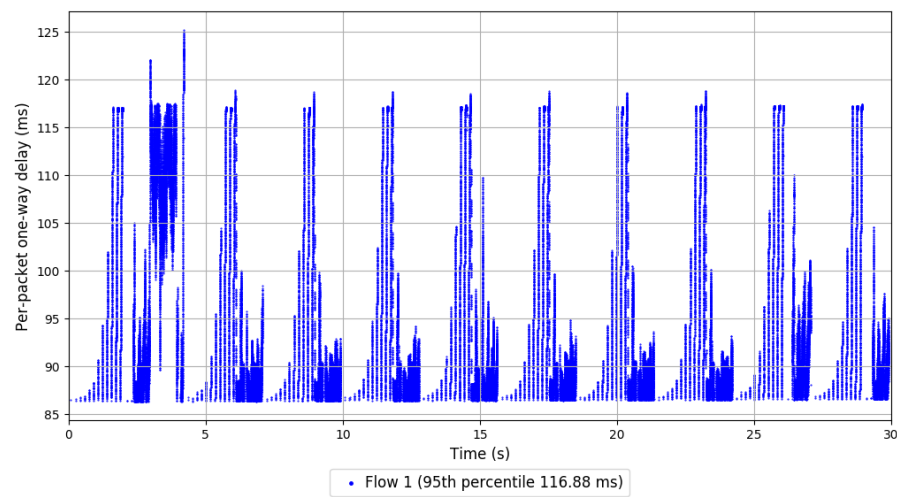
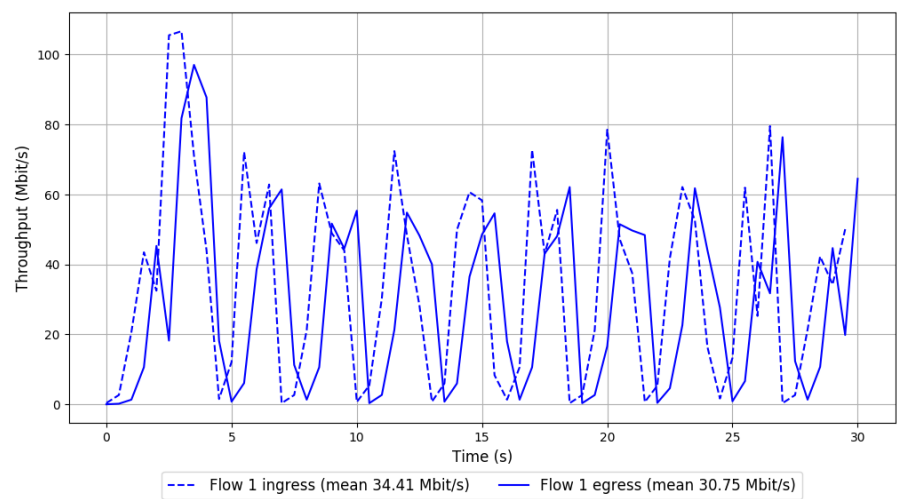


Run 5: Statistics of Verus

Start at: 2018-06-18 10:05:24
End at: 2018-06-18 10:05:54
Local clock offset: -7.159 ms
Remote clock offset: 15.633 ms

Below is generated by plot.py at 2018-06-18 12:12:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 30.75 Mbit/s
95th percentile per-packet one-way delay: 116.884 ms
Loss rate: 10.64%
-- Flow 1:
Average throughput: 30.75 Mbit/s
95th percentile per-packet one-way delay: 116.884 ms
Loss rate: 10.64%

Run 5: Report of Verus — Data Link

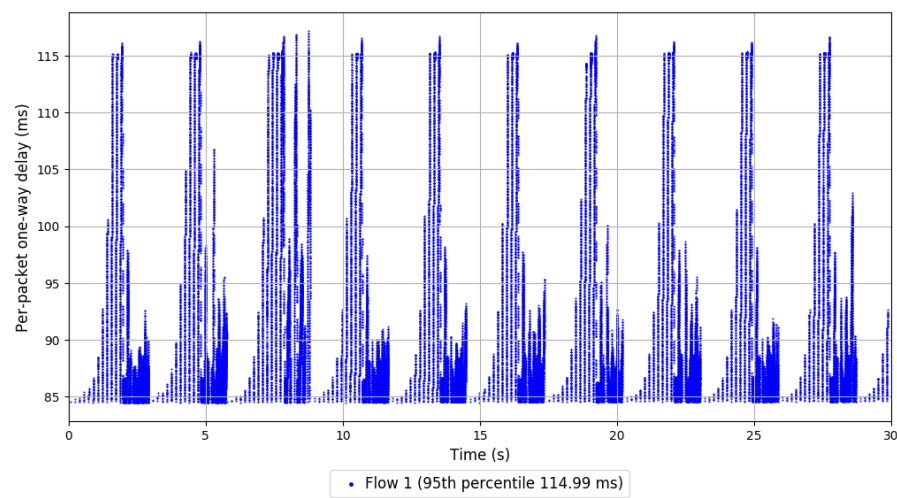
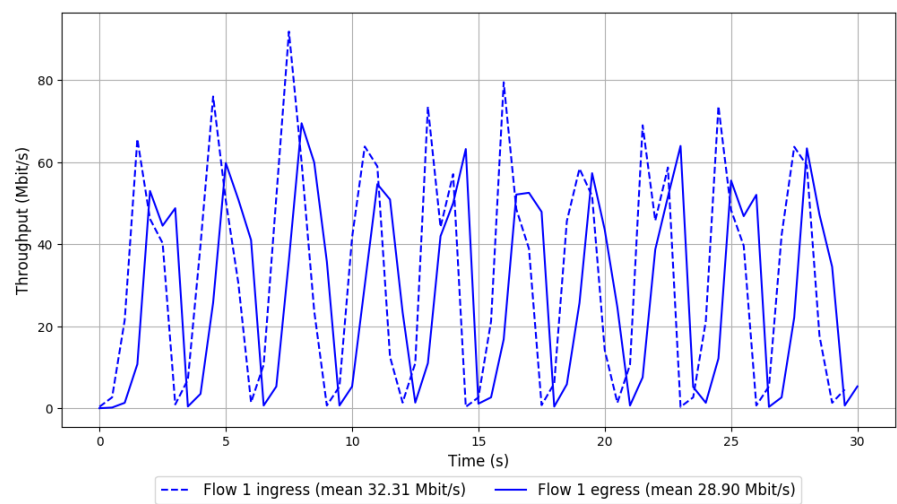


Run 6: Statistics of Verus

Start at: 2018-06-18 10:24:01
End at: 2018-06-18 10:24:31
Local clock offset: -2.535 ms
Remote clock offset: 10.662 ms

Below is generated by plot.py at 2018-06-18 12:12:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 28.90 Mbit/s
95th percentile per-packet one-way delay: 114.988 ms
Loss rate: 10.53%
-- Flow 1:
Average throughput: 28.90 Mbit/s
95th percentile per-packet one-way delay: 114.988 ms
Loss rate: 10.53%

Run 6: Report of Verus — Data Link

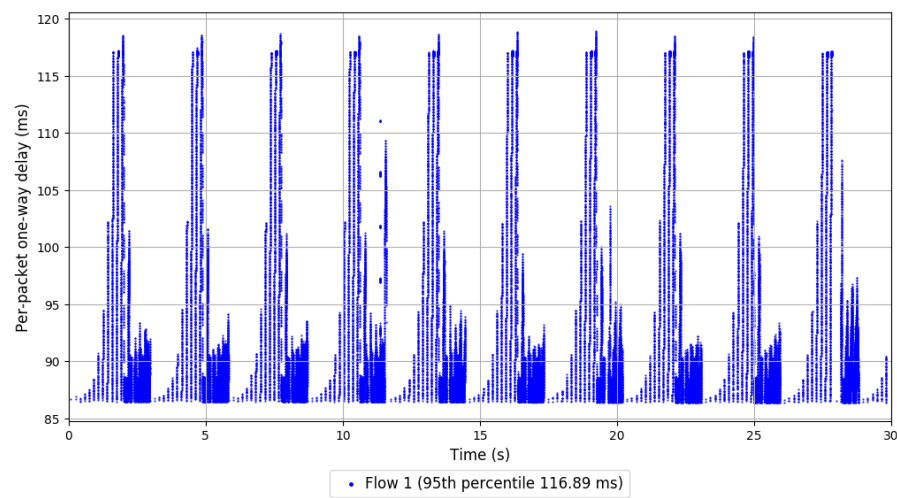
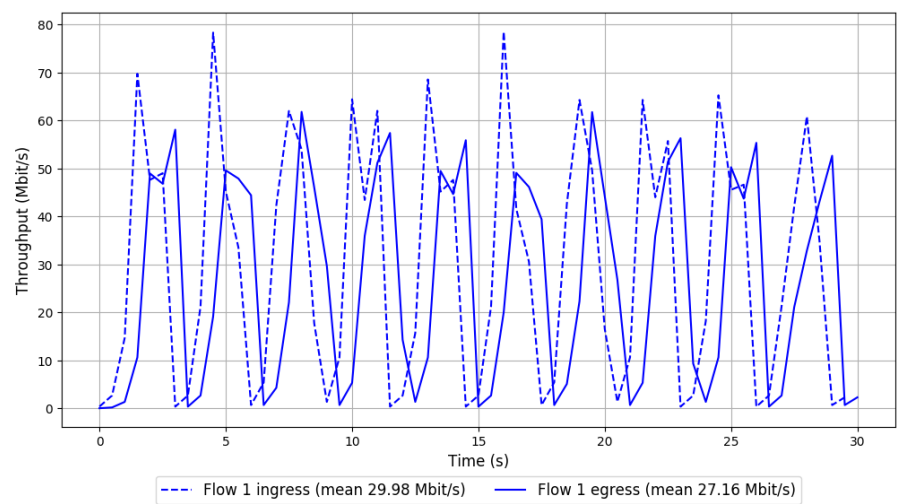


Run 7: Statistics of Verus

Start at: 2018-06-18 10:42:39
End at: 2018-06-18 10:43:09
Local clock offset: -2.4 ms
Remote clock offset: 10.309 ms

Below is generated by plot.py at 2018-06-18 12:12:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 27.16 Mbit/s
95th percentile per-packet one-way delay: 116.889 ms
Loss rate: 9.38%
-- Flow 1:
Average throughput: 27.16 Mbit/s
95th percentile per-packet one-way delay: 116.889 ms
Loss rate: 9.38%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-06-18 11:01:24

End at: 2018-06-18 11:01:54

Local clock offset: -2.436 ms

Remote clock offset: 9.169 ms

Below is generated by plot.py at 2018-06-18 12:12:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.53 Mbit/s

95th percentile per-packet one-way delay: 168.306 ms

Loss rate: 67.27%

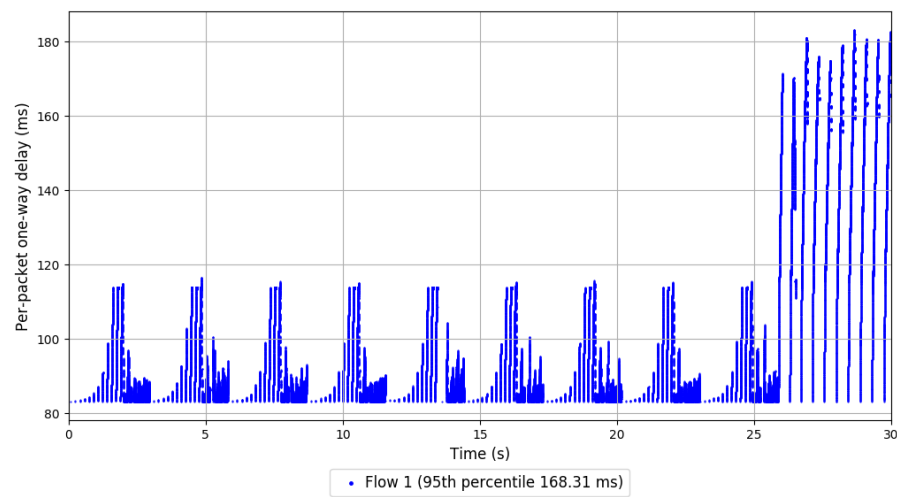
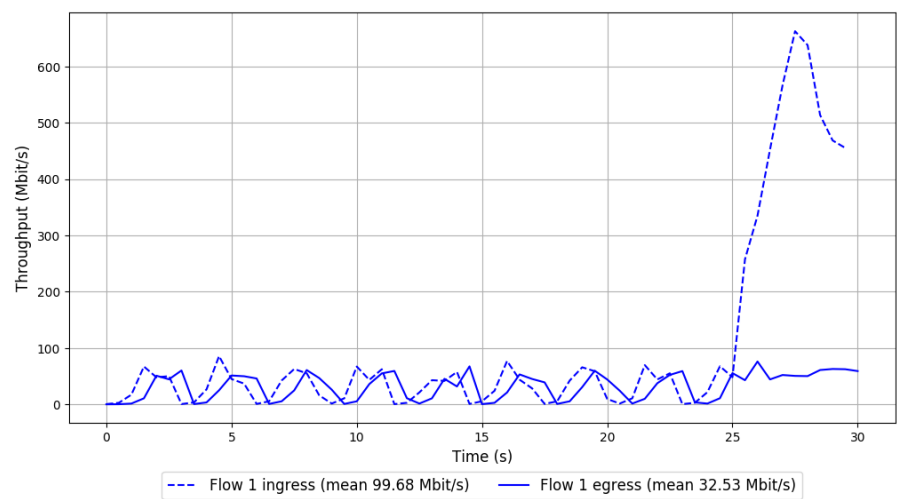
-- Flow 1:

Average throughput: 32.53 Mbit/s

95th percentile per-packet one-way delay: 168.306 ms

Loss rate: 67.27%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-06-18 11:20:05

End at: 2018-06-18 11:20:35

Local clock offset: -2.877 ms

Remote clock offset: 5.94 ms

Below is generated by plot.py at 2018-06-18 12:12:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.69 Mbit/s

95th percentile per-packet one-way delay: 124.954 ms

Loss rate: 53.36%

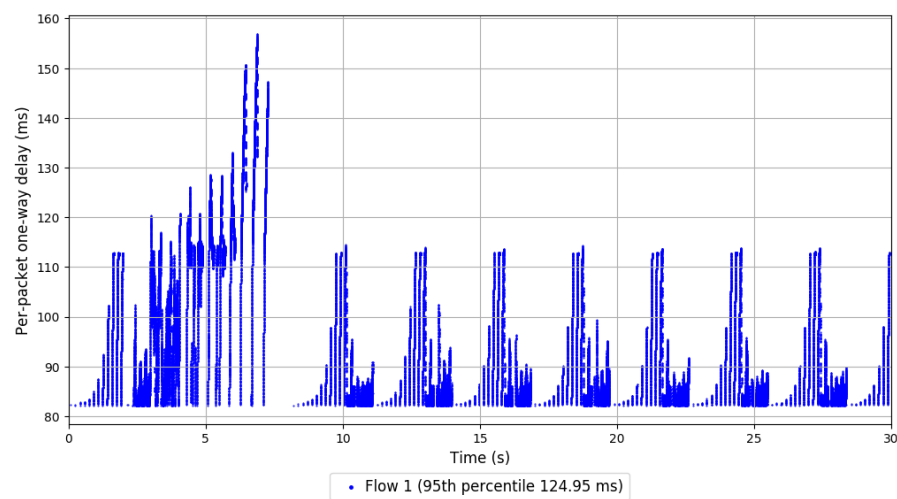
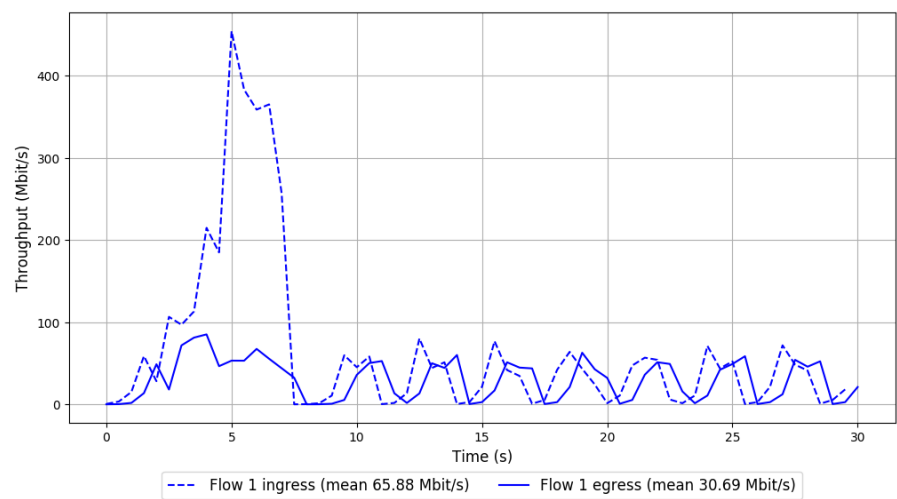
-- Flow 1:

Average throughput: 30.69 Mbit/s

95th percentile per-packet one-way delay: 124.954 ms

Loss rate: 53.36%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-06-18 11:38:50

End at: 2018-06-18 11:39:20

Local clock offset: -4.554 ms

Remote clock offset: 3.192 ms

Below is generated by plot.py at 2018-06-18 12:12:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.68 Mbit/s

95th percentile per-packet one-way delay: 111.902 ms

Loss rate: 9.71%

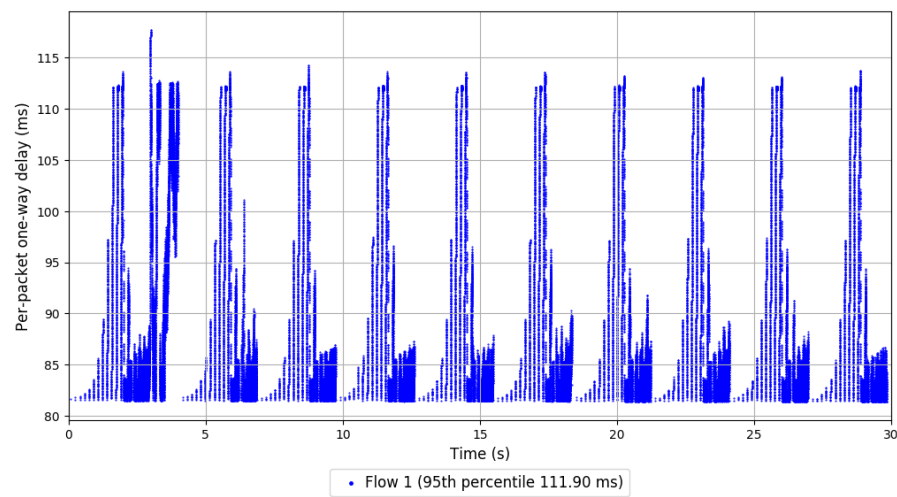
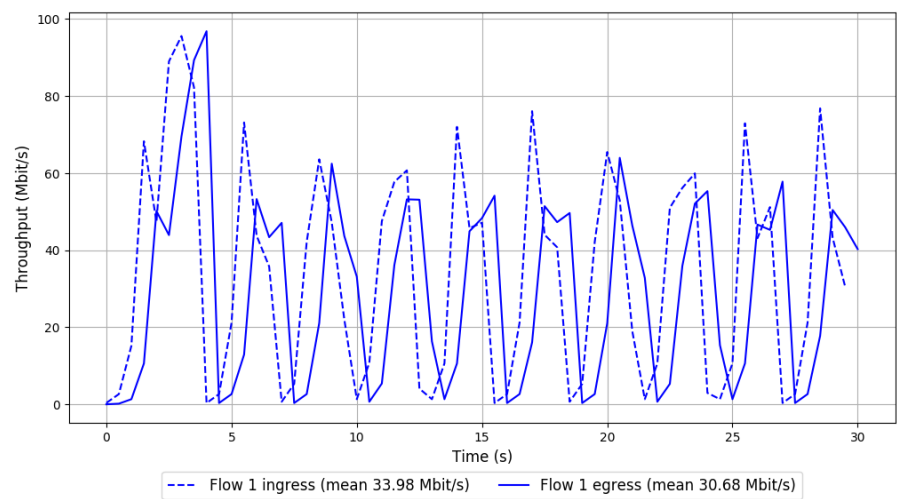
-- Flow 1:

Average throughput: 30.68 Mbit/s

95th percentile per-packet one-way delay: 111.902 ms

Loss rate: 9.71%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-06-18 08:48:22

End at: 2018-06-18 08:48:52

Local clock offset: -0.25 ms

Remote clock offset: 10.031 ms

Below is generated by plot.py at 2018-06-18 12:13:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.32 Mbit/s

95th percentile per-packet one-way delay: 114.965 ms

Loss rate: 0.19%

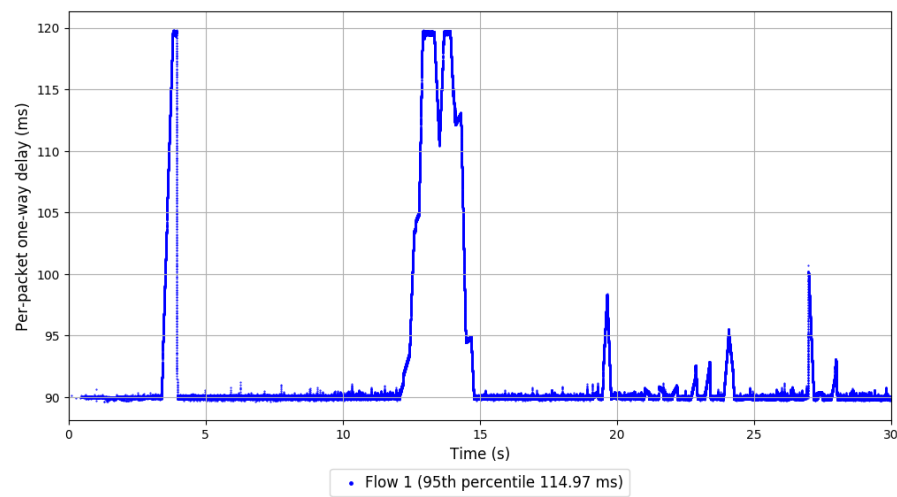
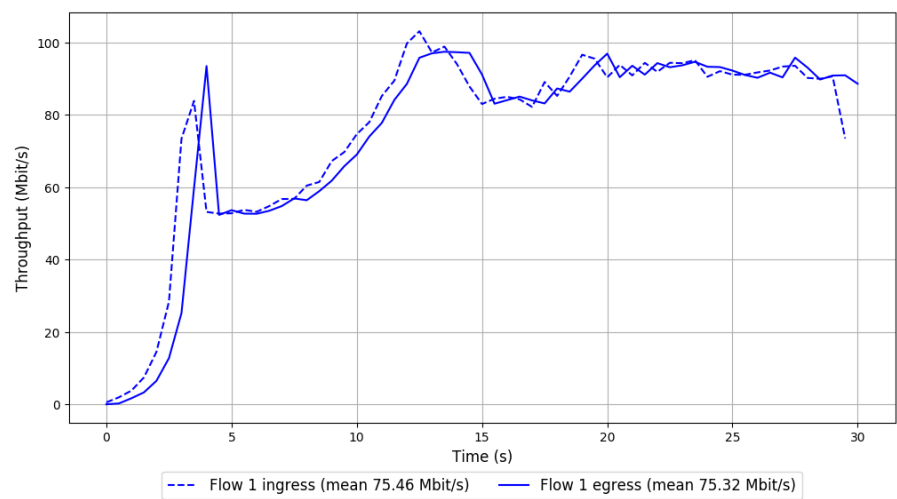
-- Flow 1:

Average throughput: 75.32 Mbit/s

95th percentile per-packet one-way delay: 114.965 ms

Loss rate: 0.19%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-06-18 09:07:01

End at: 2018-06-18 09:07:31

Local clock offset: -3.645 ms

Remote clock offset: 8.076 ms

Below is generated by plot.py at 2018-06-18 12:13:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.24 Mbit/s

95th percentile per-packet one-way delay: 102.232 ms

Loss rate: 0.07%

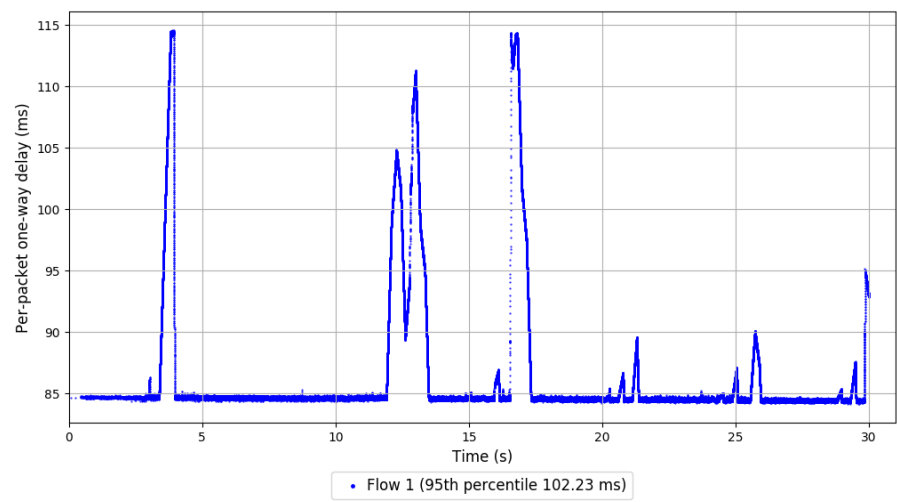
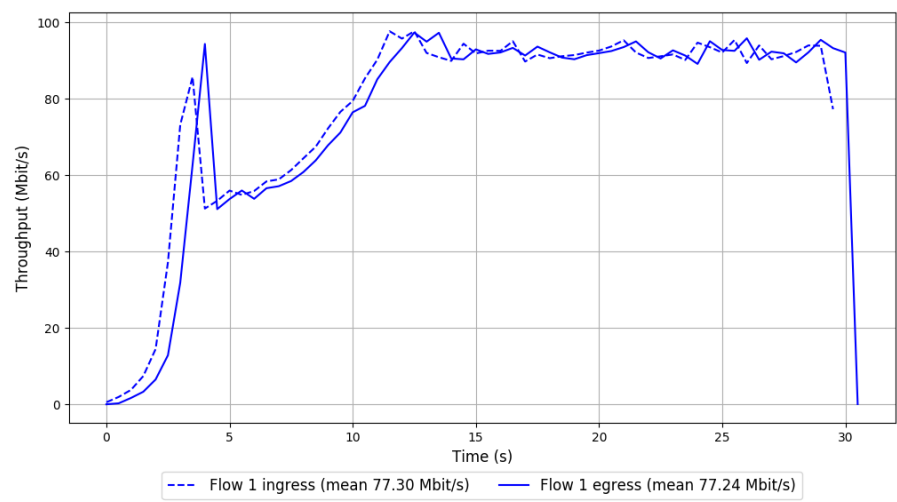
-- Flow 1:

Average throughput: 77.24 Mbit/s

95th percentile per-packet one-way delay: 102.232 ms

Loss rate: 0.07%

Run 2: Report of PCC-Vivace — Data Link

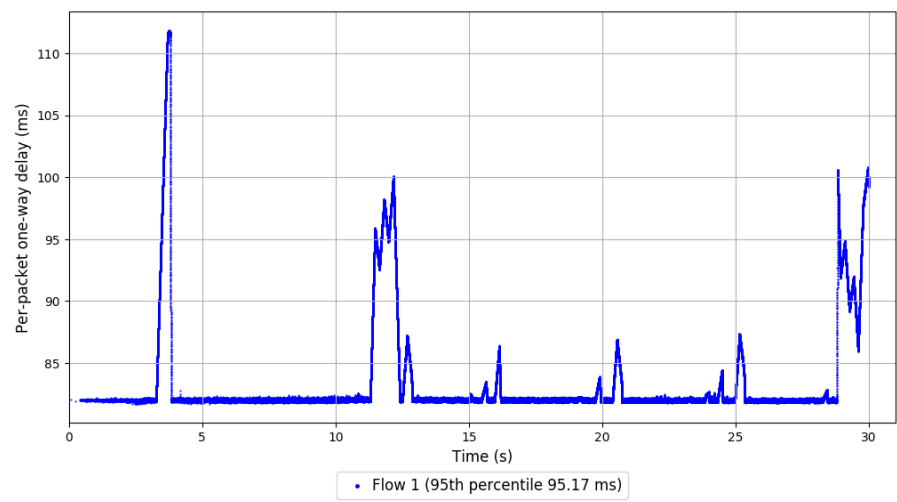
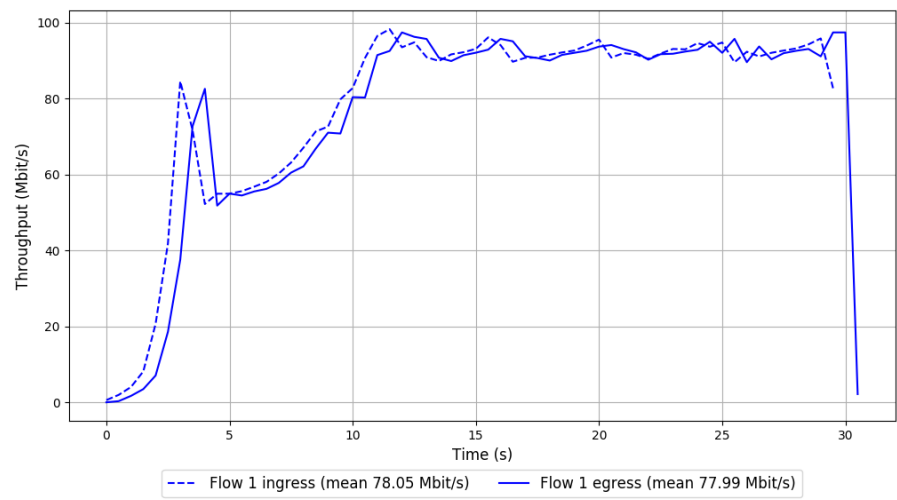


Run 3: Statistics of PCC-Vivace

Start at: 2018-06-18 09:25:40
End at: 2018-06-18 09:26:10
Local clock offset: -7.655 ms
Remote clock offset: 13.077 ms

Below is generated by plot.py at 2018-06-18 12:13:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.99 Mbit/s
95th percentile per-packet one-way delay: 95.171 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 77.99 Mbit/s
95th percentile per-packet one-way delay: 95.171 ms
Loss rate: 0.03%

Run 3: Report of PCC-Vivace — Data Link

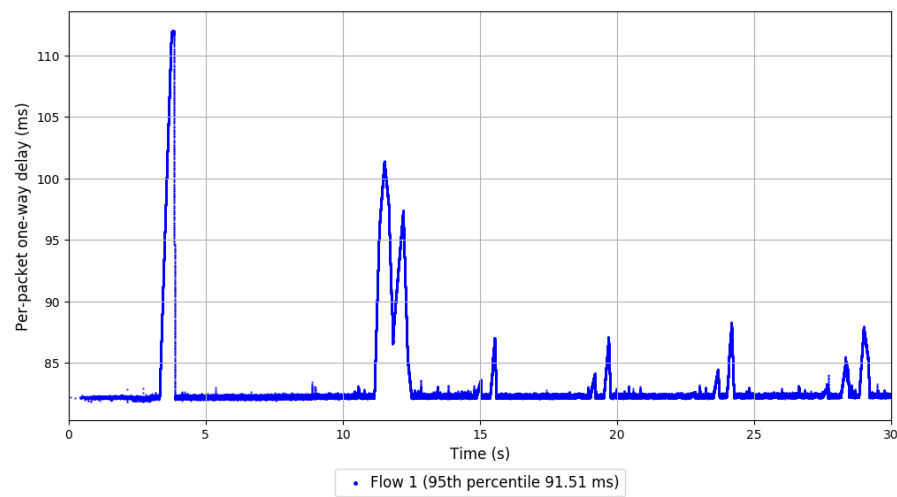
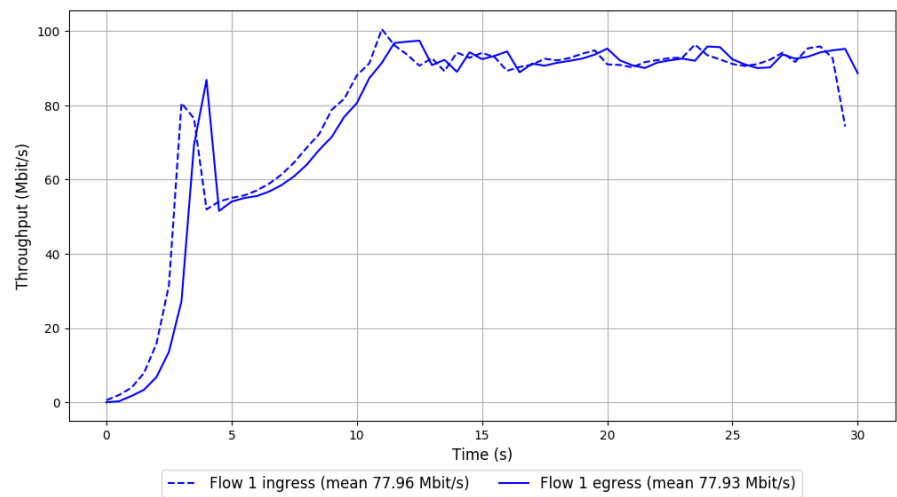


Run 4: Statistics of PCC-Vivace

Start at: 2018-06-18 09:44:20
End at: 2018-06-18 09:44:50
Local clock offset: -7.56 ms
Remote clock offset: 11.858 ms

Below is generated by plot.py at 2018-06-18 12:13:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.93 Mbit/s
95th percentile per-packet one-way delay: 91.508 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 77.93 Mbit/s
95th percentile per-packet one-way delay: 91.508 ms
Loss rate: 0.03%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-06-18 10:03:02

End at: 2018-06-18 10:03:32

Local clock offset: -7.82 ms

Remote clock offset: 15.398 ms

Below is generated by plot.py at 2018-06-18 12:13:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.63 Mbit/s

95th percentile per-packet one-way delay: 108.336 ms

Loss rate: 0.13%

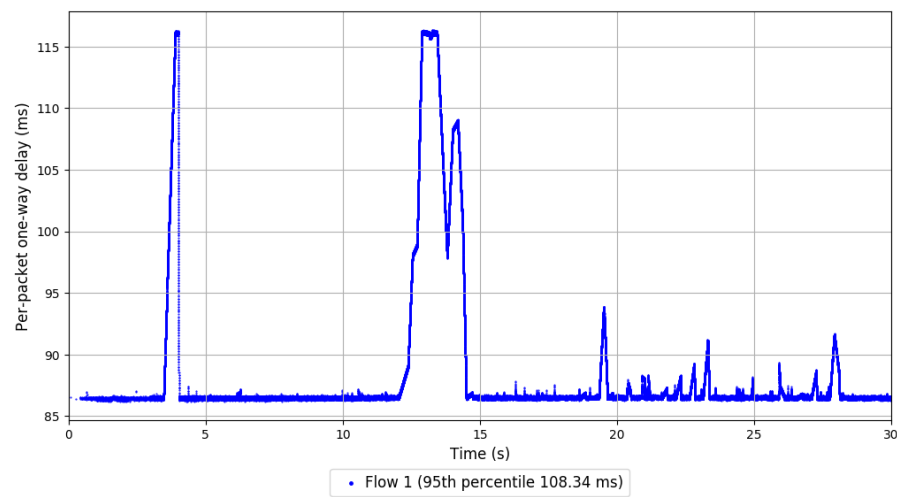
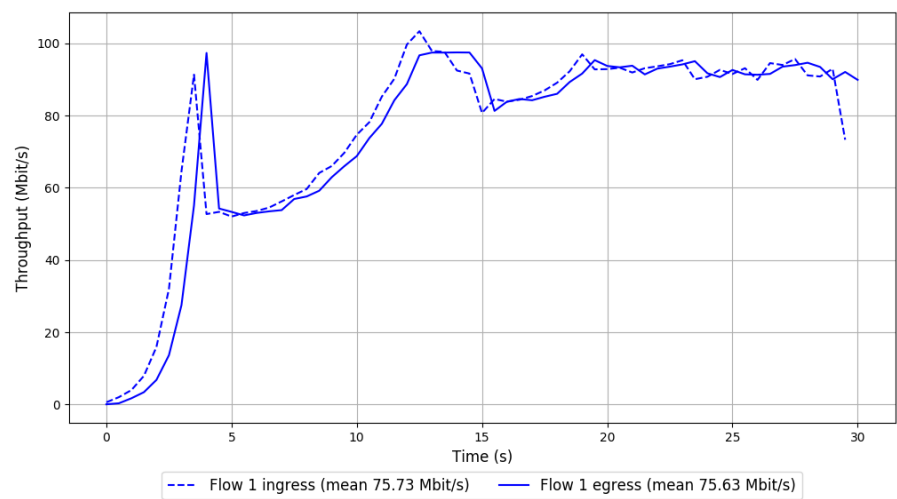
-- Flow 1:

Average throughput: 75.63 Mbit/s

95th percentile per-packet one-way delay: 108.336 ms

Loss rate: 0.13%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-06-18 10:21:41

End at: 2018-06-18 10:22:11

Local clock offset: -2.781 ms

Remote clock offset: 9.786 ms

Below is generated by plot.py at 2018-06-18 12:13:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.67 Mbit/s

95th percentile per-packet one-way delay: 110.833 ms

Loss rate: 0.09%

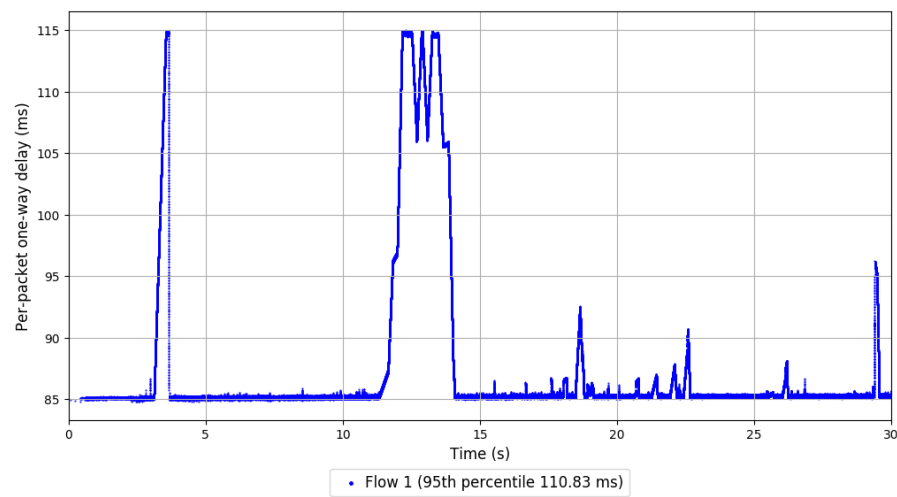
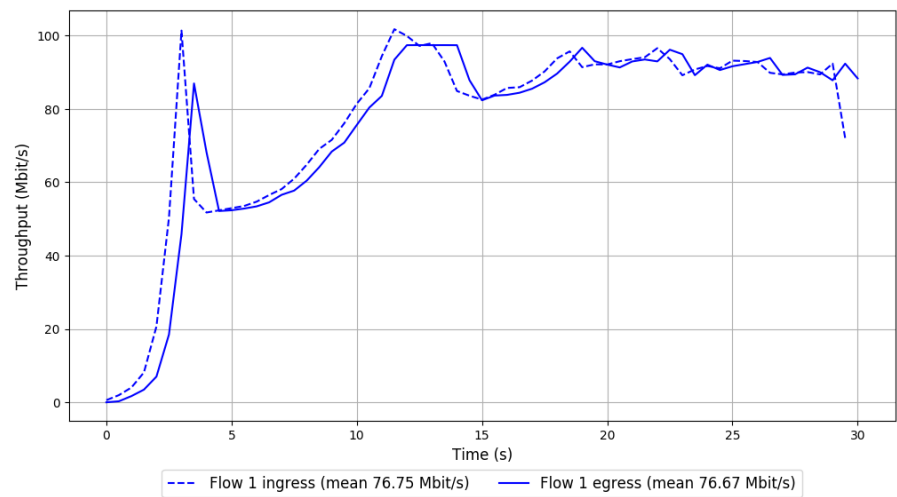
-- Flow 1:

Average throughput: 76.67 Mbit/s

95th percentile per-packet one-way delay: 110.833 ms

Loss rate: 0.09%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-06-18 10:40:18

End at: 2018-06-18 10:40:48

Local clock offset: -2.311 ms

Remote clock offset: 4.144 ms

Below is generated by plot.py at 2018-06-18 12:13:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.54 Mbit/s

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

Loss rate: 0.11%

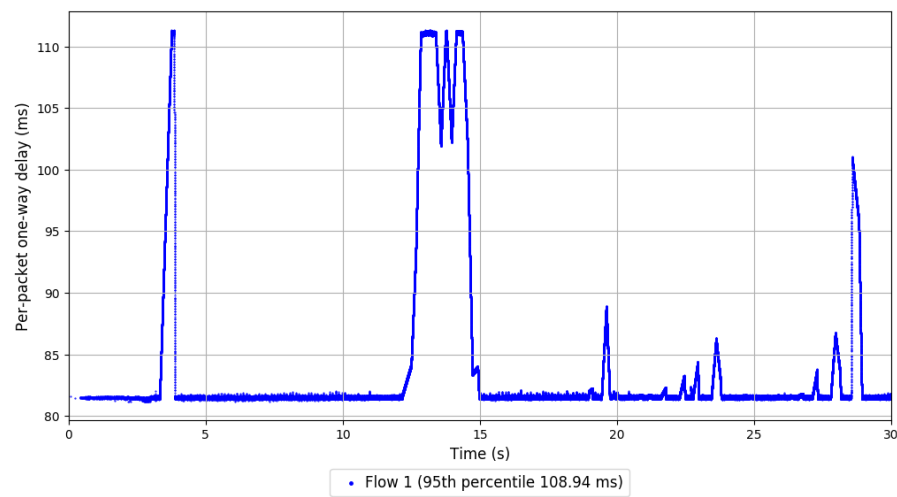
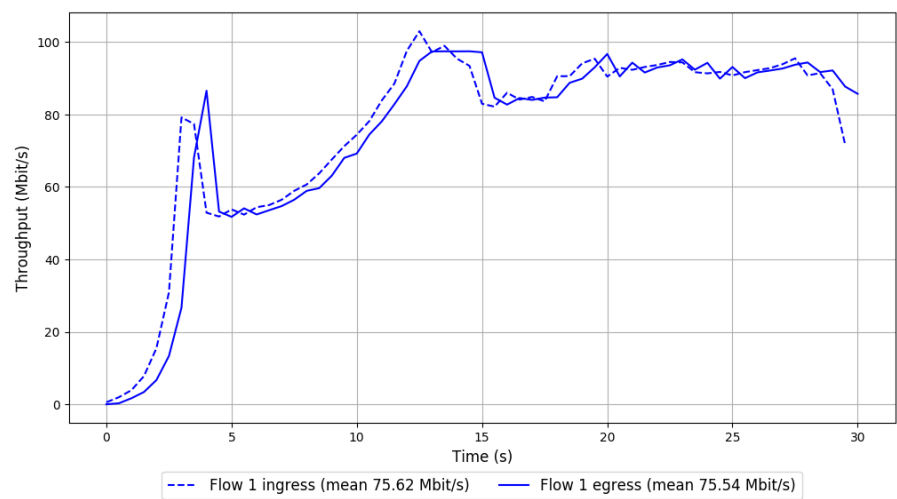
-- Flow 1:

Average throughput: 75.54 Mbit/s

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

Loss rate: 0.11%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-06-18 10:59:02

End at: 2018-06-18 10:59:32

Local clock offset: -2.432 ms

Remote clock offset: 9.177 ms

Below is generated by plot.py at 2018-06-18 12:13:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.21 Mbit/s

95th percentile per-packet one-way delay: 108.691 ms

Loss rate: 0.13%

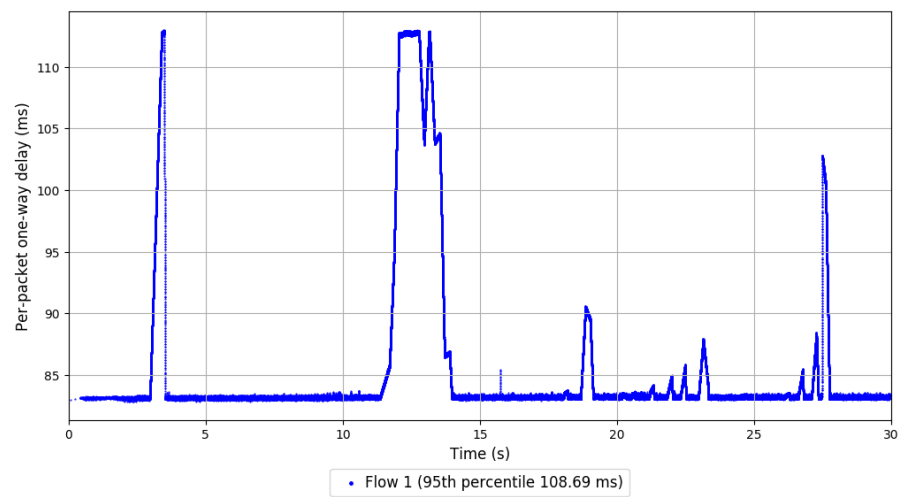
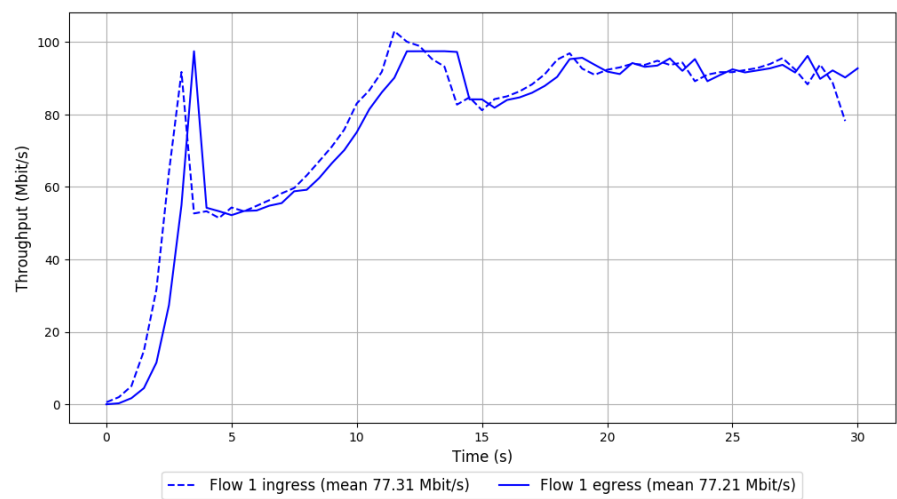
-- Flow 1:

Average throughput: 77.21 Mbit/s

95th percentile per-packet one-way delay: 108.691 ms

Loss rate: 0.13%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-06-18 11:17:43

End at: 2018-06-18 11:18:13

Local clock offset: -2.856 ms

Remote clock offset: 6.394 ms

Below is generated by plot.py at 2018-06-18 12:13:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.13 Mbit/s

95th percentile per-packet one-way delay: 102.793 ms

Loss rate: 0.13%

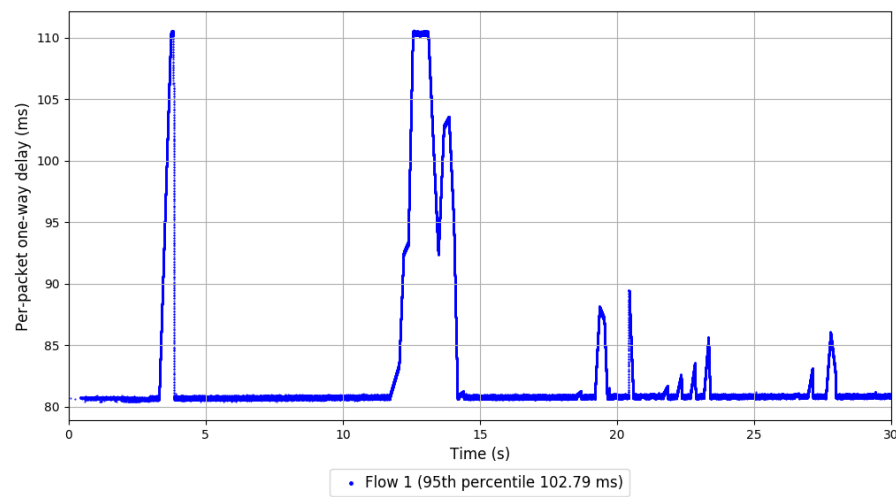
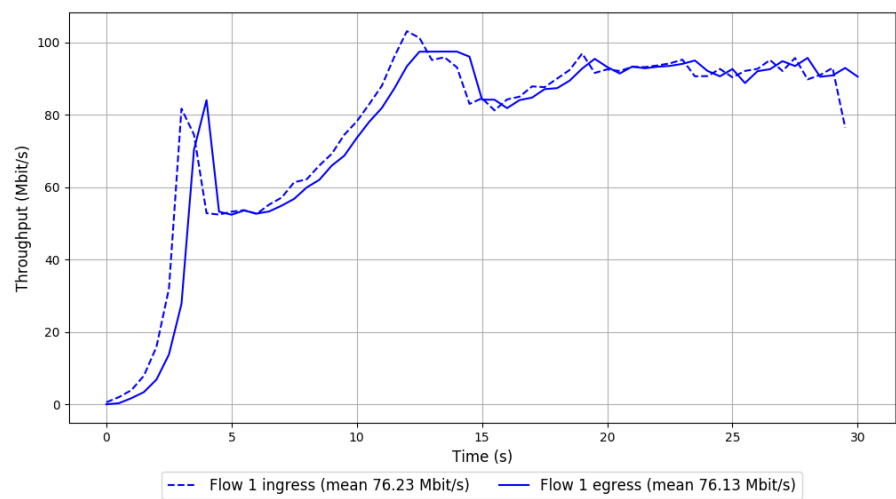
-- Flow 1:

Average throughput: 76.13 Mbit/s

95th percentile per-packet one-way delay: 102.793 ms

Loss rate: 0.13%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-06-18 11:36:28

End at: 2018-06-18 11:36:58

Local clock offset: -3.808 ms

Remote clock offset: 3.218 ms

Below is generated by plot.py at 2018-06-18 12:13:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.80 Mbit/s

95th percentile per-packet one-way delay: 97.977 ms

Loss rate: 0.06%

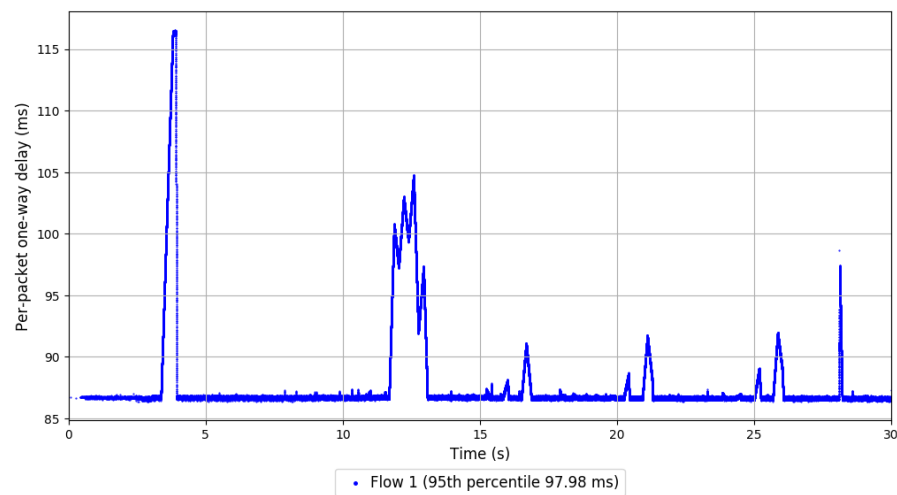
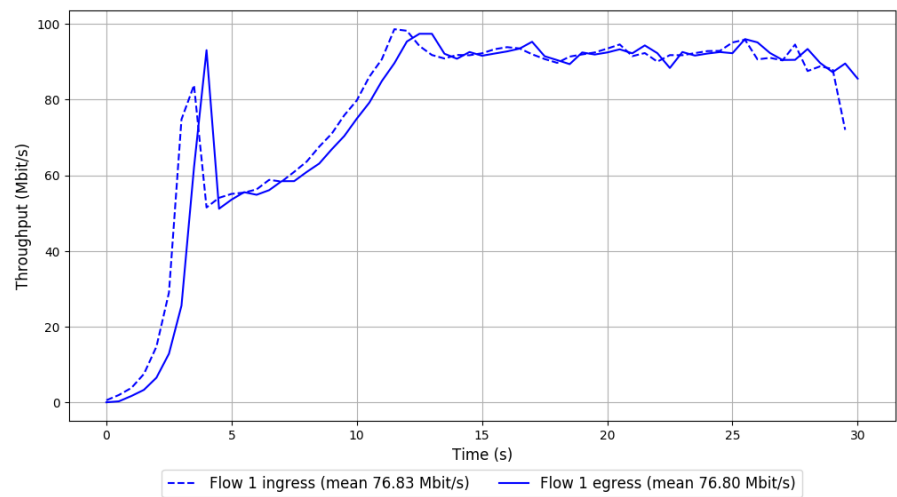
-- Flow 1:

Average throughput: 76.80 Mbit/s

95th percentile per-packet one-way delay: 97.977 ms

Loss rate: 0.06%

Run 10: Report of PCC-Vivace — Data Link

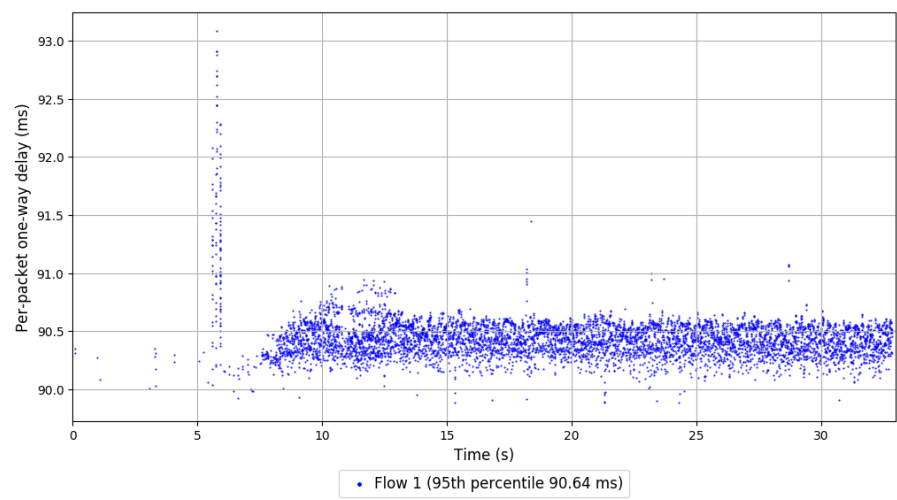
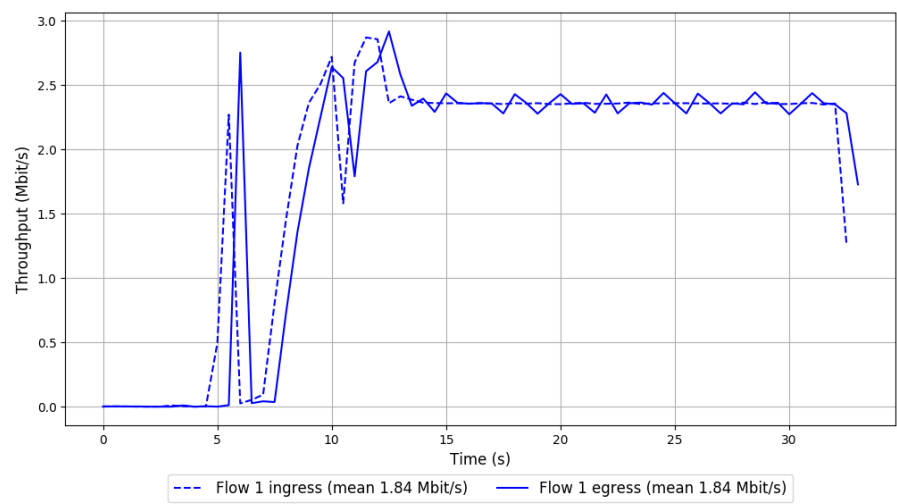


```
Run 1: Statistics of WebRTC media

Start at: 2018-06-18 08:53:03
End at: 2018-06-18 08:53:33
Local clock offset: -1.379 ms
Remote clock offset: 9.907 ms

# Below is generated by plot.py at 2018-06-18 12:13:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.84 Mbit/s
95th percentile per-packet one-way delay: 90.640 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.84 Mbit/s
95th percentile per-packet one-way delay: 90.640 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

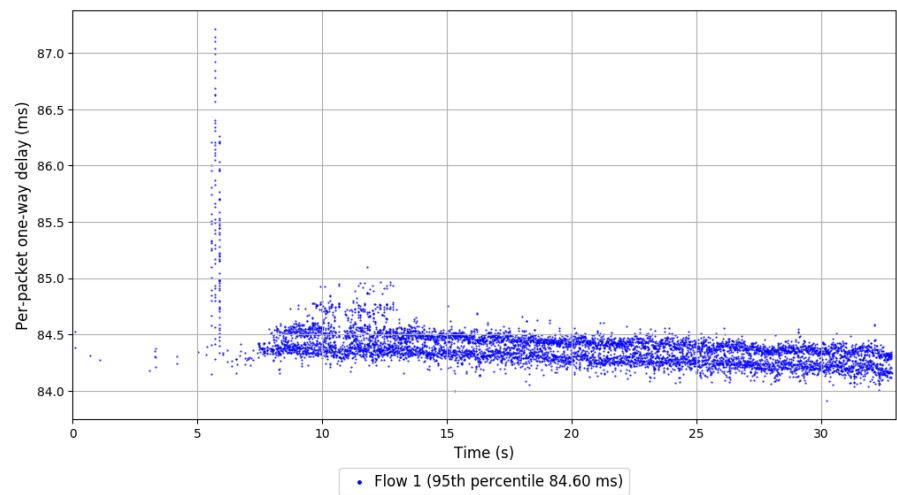
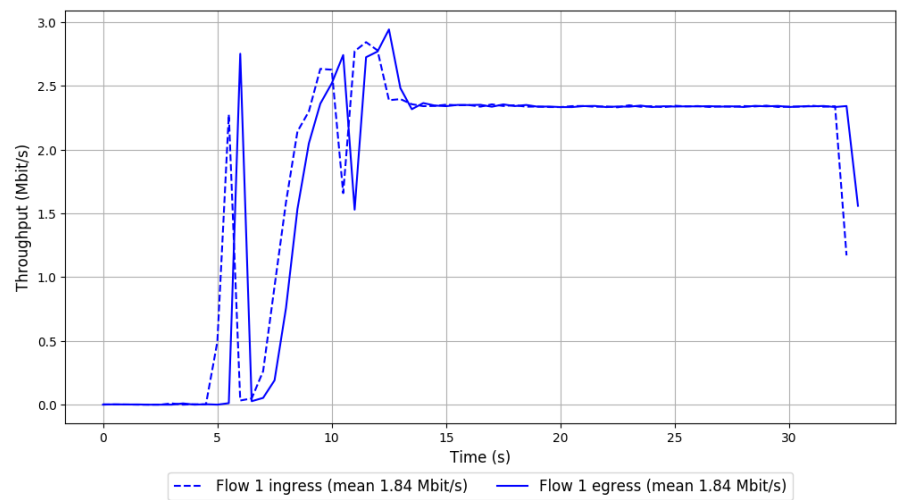


Run 2: Statistics of WebRTC media

Start at: 2018-06-18 09:11:41
End at: 2018-06-18 09:12:11
Local clock offset: -5.311 ms
Remote clock offset: 14.525 ms

Below is generated by plot.py at 2018-06-18 12:13:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.84 Mbit/s
95th percentile per-packet one-way delay: 84.596 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.84 Mbit/s
95th percentile per-packet one-way delay: 84.596 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

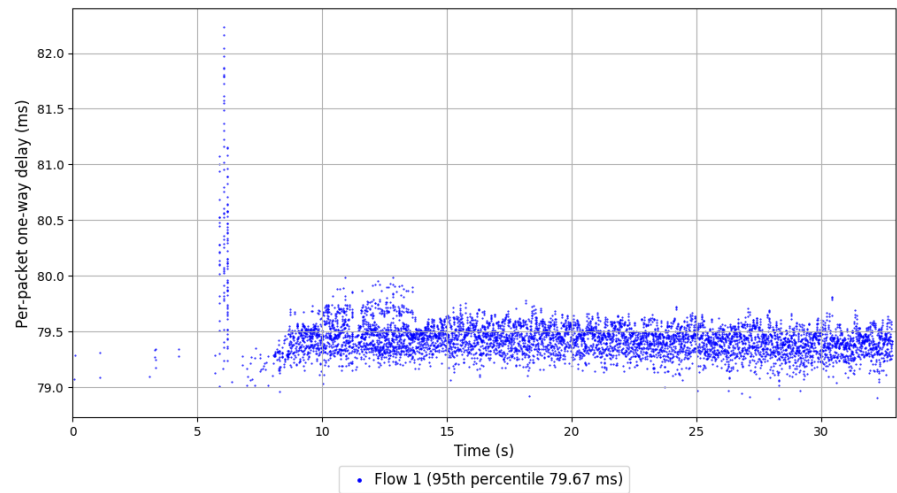
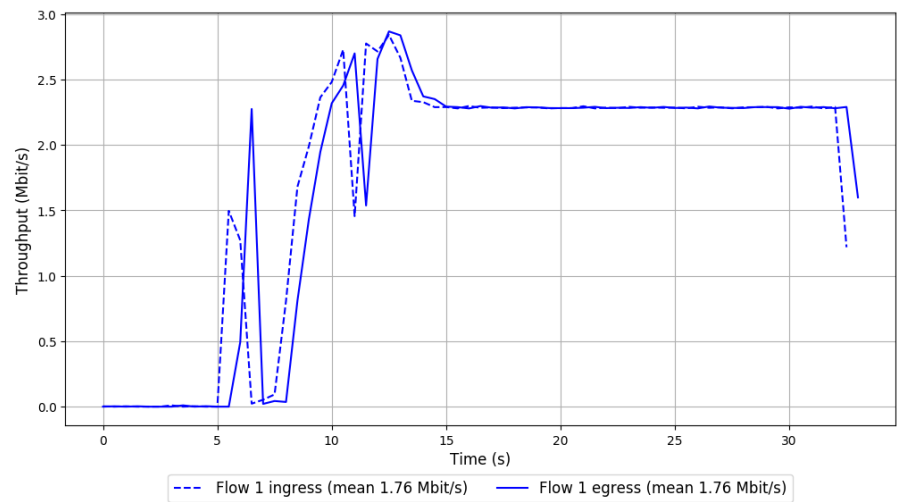


Run 3: Statistics of WebRTC media

Start at: 2018-06-18 09:30:22
End at: 2018-06-18 09:30:52
Local clock offset: -8.195 ms
Remote clock offset: 12.663 ms

Below is generated by plot.py at 2018-06-18 12:13:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.76 Mbit/s
95th percentile per-packet one-way delay: 79.666 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.76 Mbit/s
95th percentile per-packet one-way delay: 79.666 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

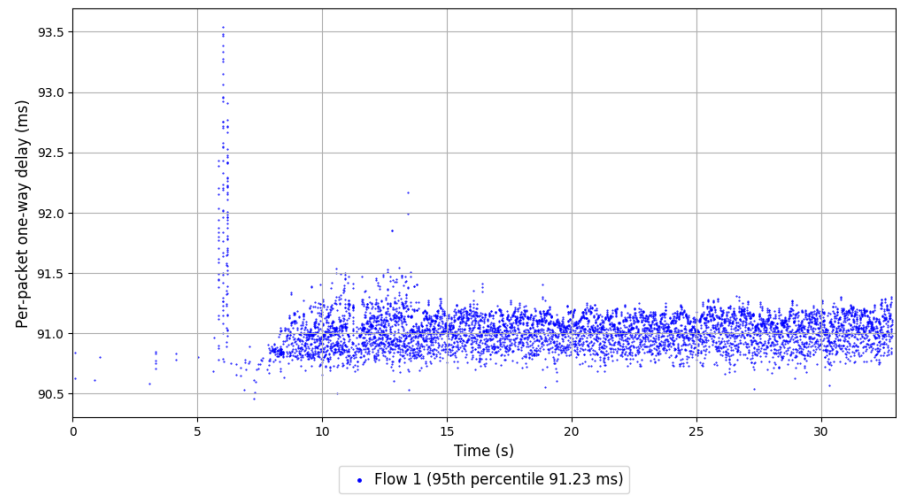
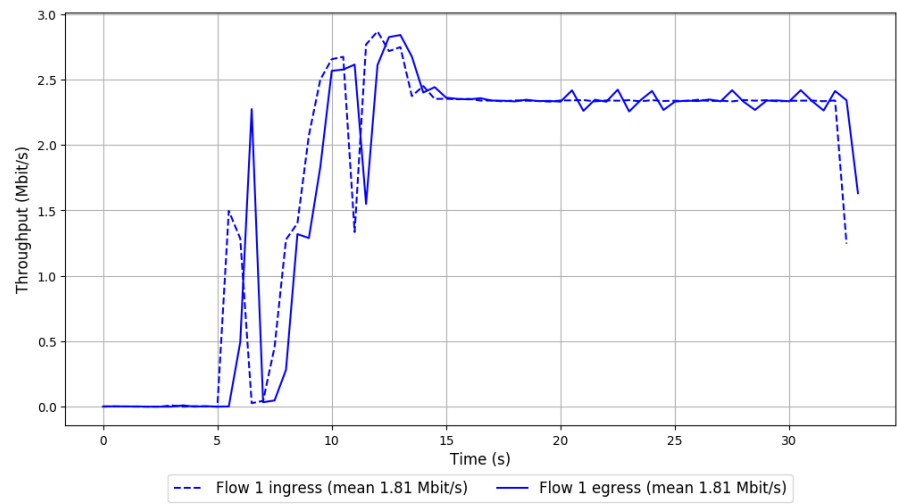


Run 4: Statistics of WebRTC media

Start at: 2018-06-18 09:49:01
End at: 2018-06-18 09:49:31
Local clock offset: -7.558 ms
Remote clock offset: 14.332 ms

Below is generated by plot.py at 2018-06-18 12:13:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.81 Mbit/s
95th percentile per-packet one-way delay: 91.232 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.81 Mbit/s
95th percentile per-packet one-way delay: 91.232 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-06-18 10:07:42

End at: 2018-06-18 10:08:12

Local clock offset: -5.993 ms

Remote clock offset: 14.54 ms

Below is generated by plot.py at 2018-06-18 12:13:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.81 Mbit/s

95th percentile per-packet one-way delay: 89.633 ms

Loss rate: 0.00%

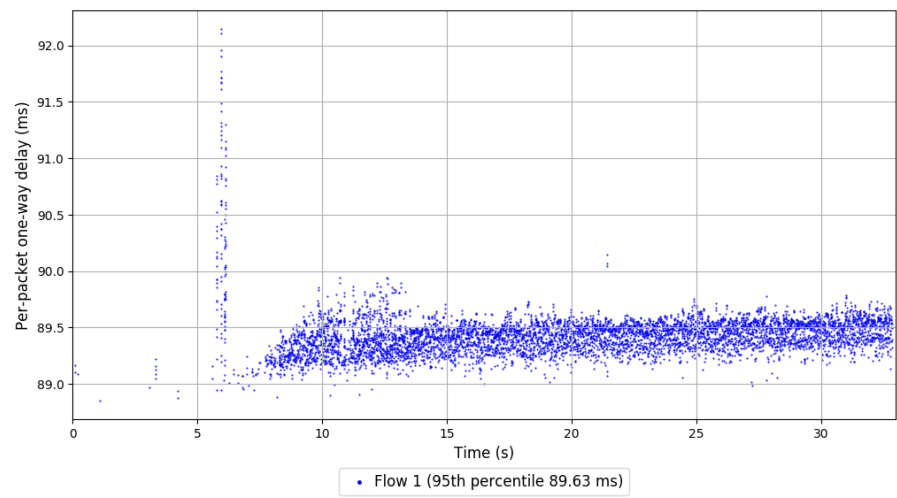
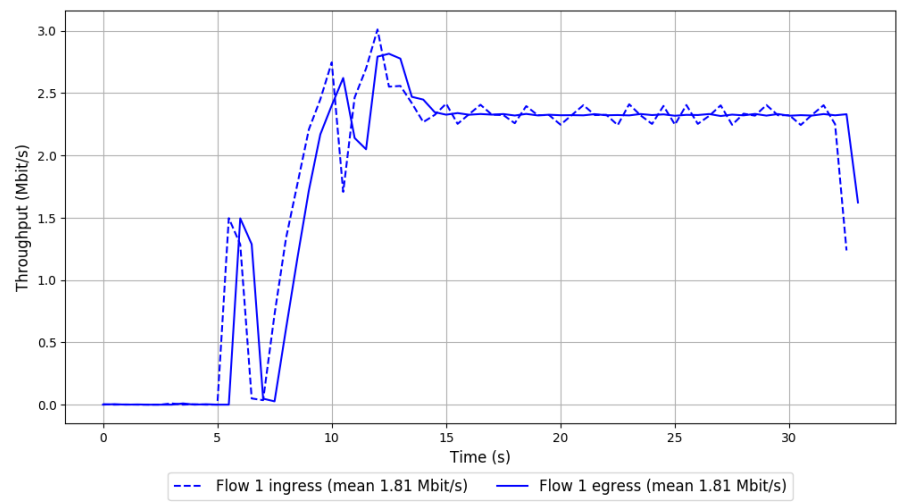
-- Flow 1:

Average throughput: 1.81 Mbit/s

95th percentile per-packet one-way delay: 89.633 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

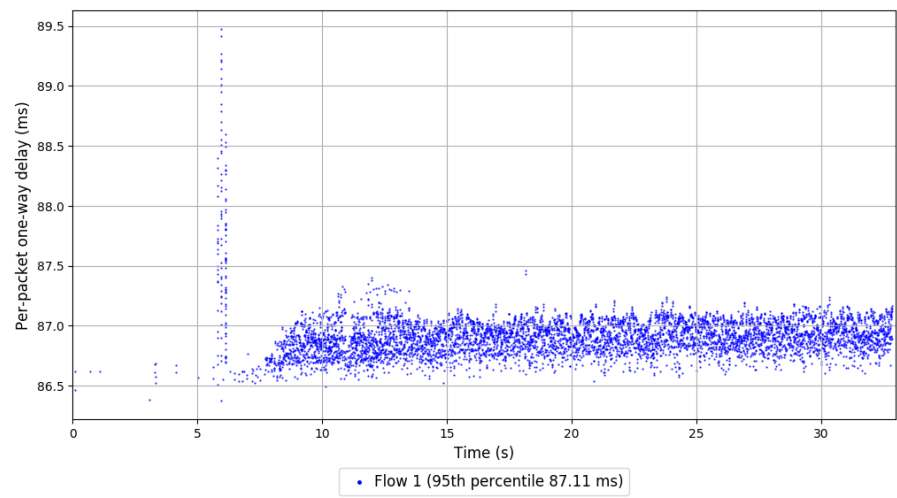
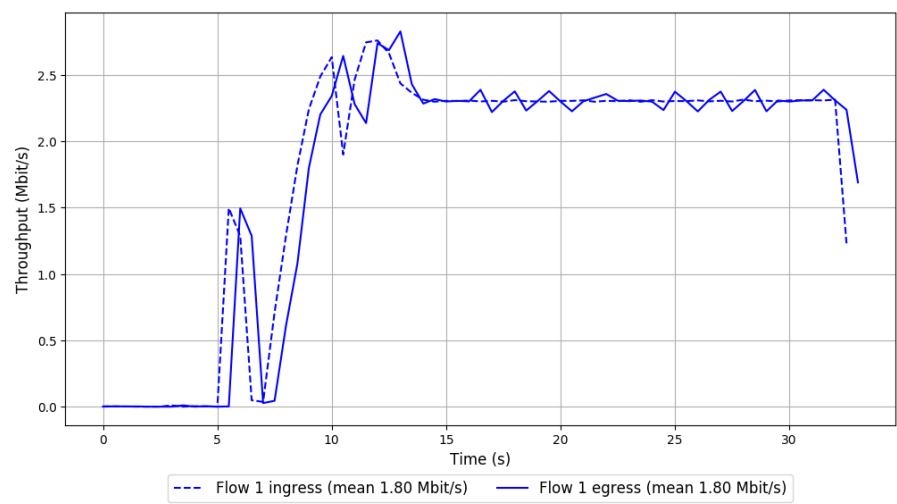


Run 6: Statistics of WebRTC media

Start at: 2018-06-18 10:26:20
End at: 2018-06-18 10:26:50
Local clock offset: -2.279 ms
Remote clock offset: 10.301 ms

Below is generated by plot.py at 2018-06-18 12:13:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.80 Mbit/s
95th percentile per-packet one-way delay: 87.106 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.80 Mbit/s
95th percentile per-packet one-way delay: 87.106 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

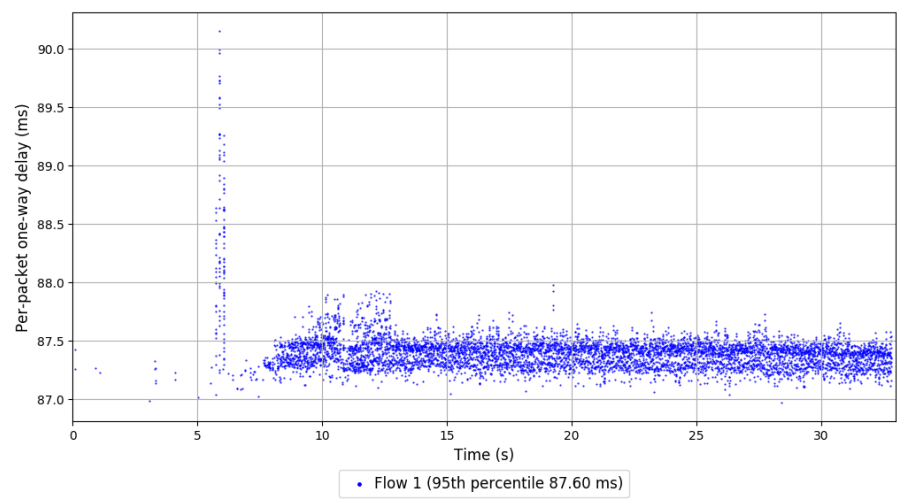
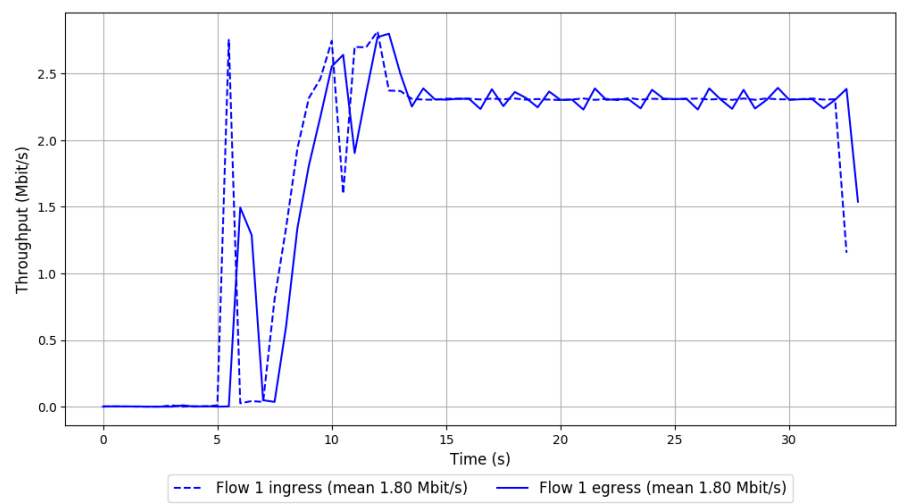


Run 7: Statistics of WebRTC media

Start at: 2018-06-18 10:44:57
End at: 2018-06-18 10:45:27
Local clock offset: -2.41 ms
Remote clock offset: 10.541 ms

Below is generated by plot.py at 2018-06-18 12:13:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.80 Mbit/s
95th percentile per-packet one-way delay: 87.604 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.80 Mbit/s
95th percentile per-packet one-way delay: 87.604 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

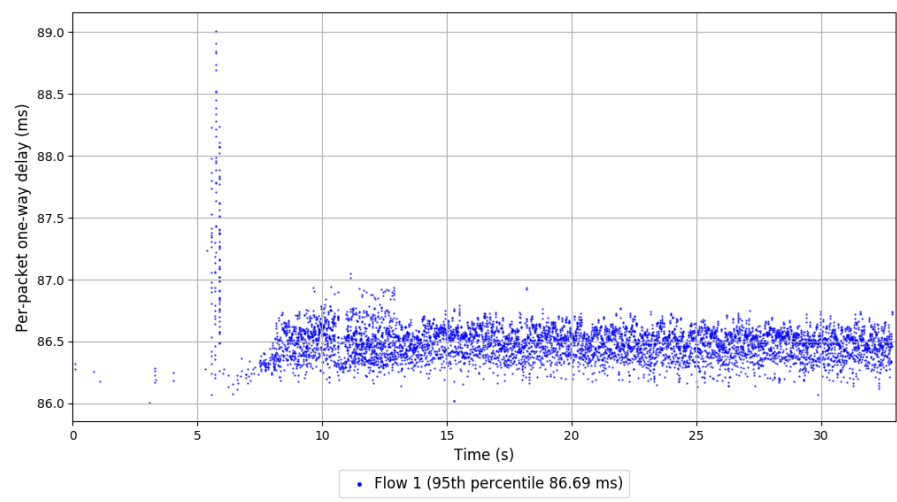
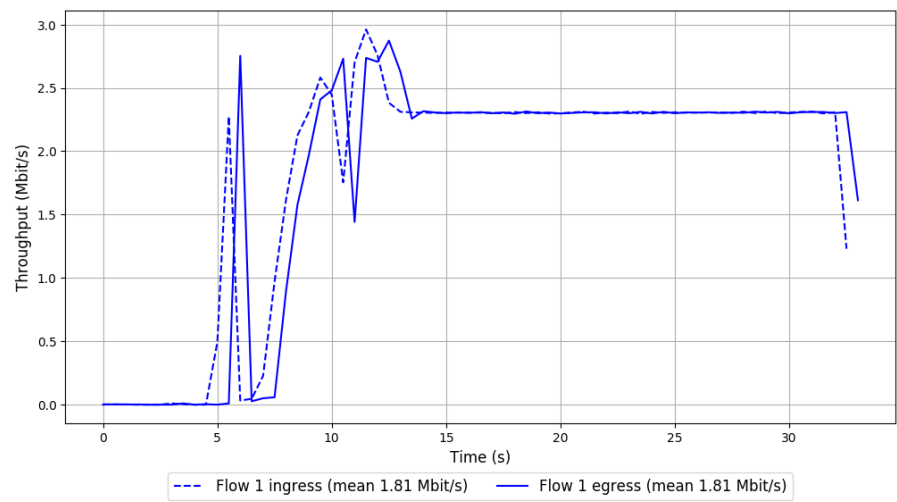


Run 8: Statistics of WebRTC media

Start at: 2018-06-18 11:03:44
End at: 2018-06-18 11:04:14
Local clock offset: -2.396 ms
Remote clock offset: 10.486 ms

Below is generated by plot.py at 2018-06-18 12:13:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.81 Mbit/s
95th percentile per-packet one-way delay: 86.691 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.81 Mbit/s
95th percentile per-packet one-way delay: 86.691 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

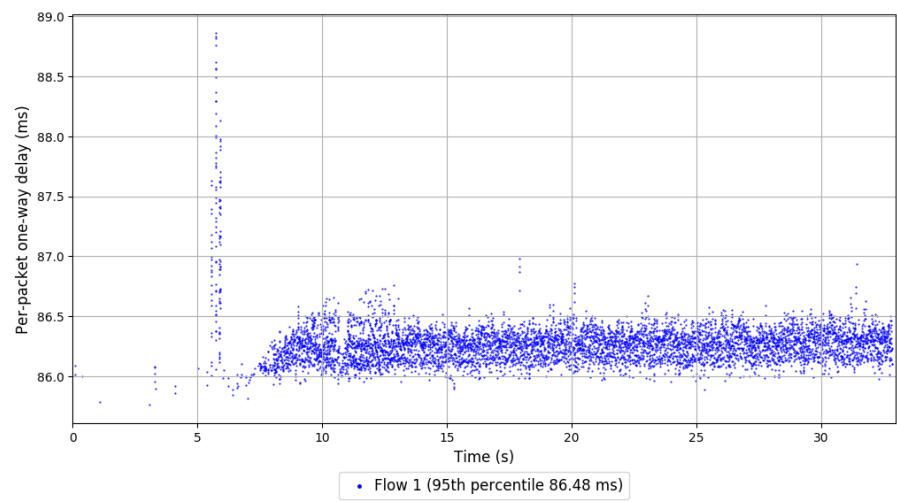
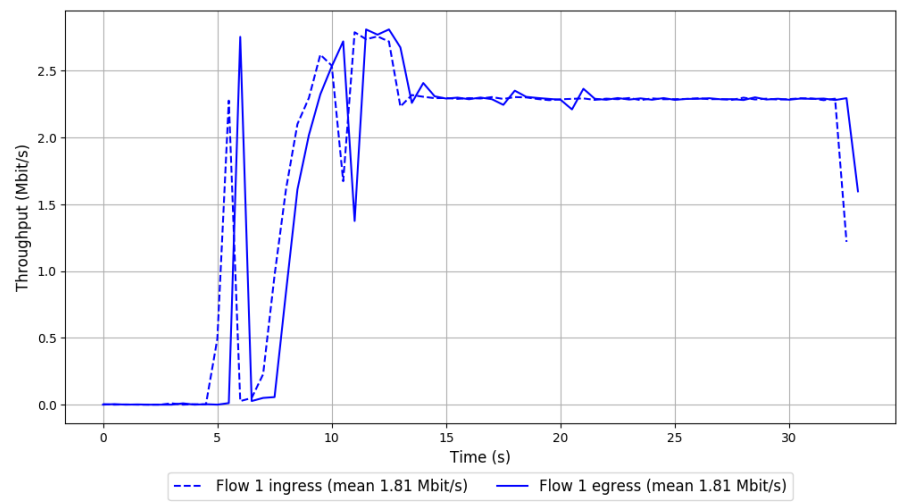


Run 9: Statistics of WebRTC media

Start at: 2018-06-18 11:22:25
End at: 2018-06-18 11:22:55
Local clock offset: -2.864 ms
Remote clock offset: 10.533 ms

Below is generated by plot.py at 2018-06-18 12:13:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.81 Mbit/s
95th percentile per-packet one-way delay: 86.482 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.81 Mbit/s
95th percentile per-packet one-way delay: 86.482 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-18 11:41:09

End at: 2018-06-18 11:41:39

Local clock offset: -5.189 ms

Remote clock offset: 7.028 ms

Below is generated by plot.py at 2018-06-18 12:13:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 83.541 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 83.541 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

