

Pantheon Report

Generated at 2018-07-09 23:59:30 (UTC).

Data path: AWS Korea Ethernet (*local*) → China Ethernet (*remote*).

Repeated the test of 17 congestion control schemes 10 times.

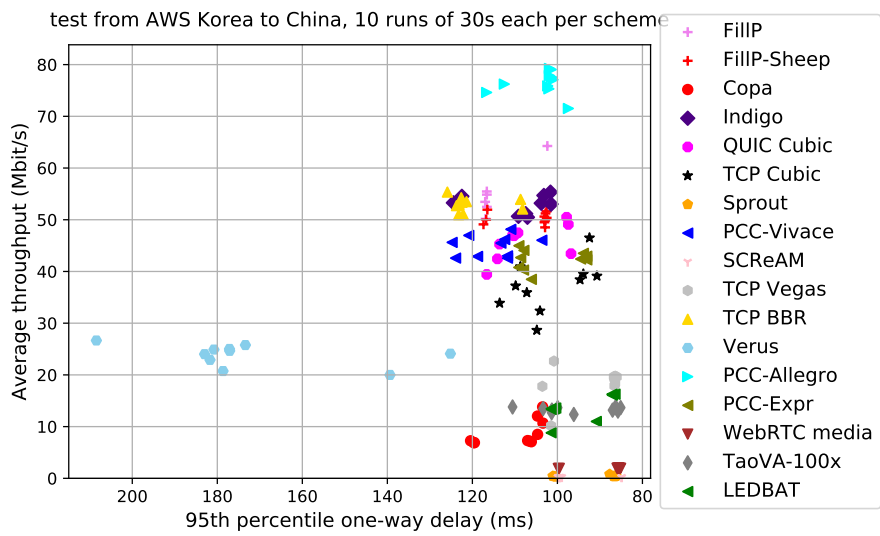
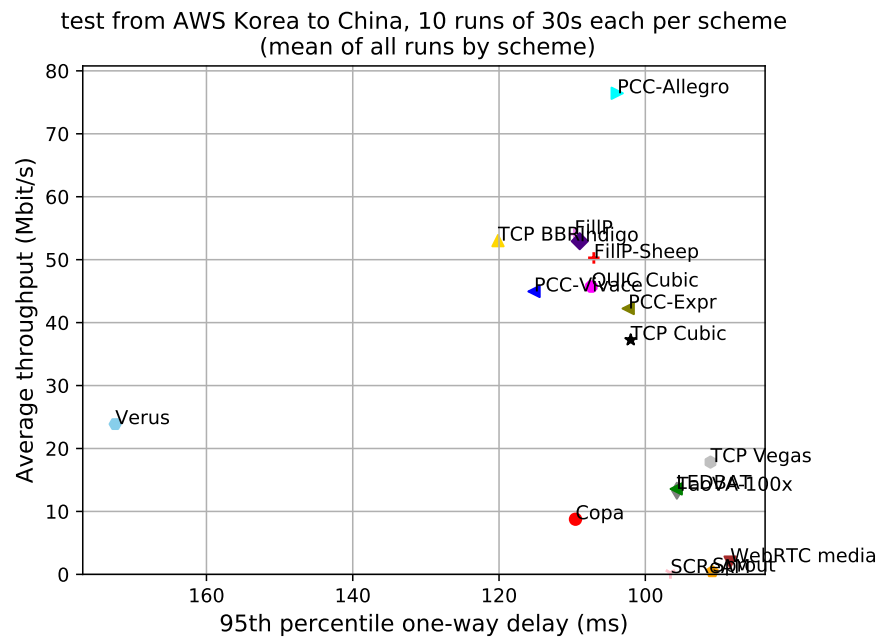
Each test lasted for 30 seconds running 1 flow.

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

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

Git summary:

```
branch: master @ 9250dbeec7fb57193cdff1ba8c440b4e16ab30f0
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ 37162fe9af85249aeccac061c93e75640ef710b5
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
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
```



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	53.03	120.14	10.09
Copa	10	8.76	109.55	13.44
TCP Cubic	10	37.25	102.00	0.47
FillP	10	54.05	109.69	27.62
FillP-Sheep	10	50.28	107.04	37.18
Indigo	9	52.93	108.97	3.51
LEDBAT	10	13.58	95.78	0.04
PCC-Allegro	10	76.44	103.84	3.00
PCC-Expr	10	42.24	102.34	1.78
QUIC Cubic	9	45.73	107.38	1.33
SCReAM	10	0.22	96.57	0.00
Sprout	10	0.44	90.85	0.00
TaoVA-100x	10	13.29	95.68	1.57
TCP Vegas	10	17.84	91.09	0.26
Verus	10	23.87	172.48	84.73
PCC-Vivace	10	44.95	115.22	1.86
WebRTC media	10	1.94	88.41	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-07-09 20:17:05

End at: 2018-07-09 20:17:35

Local clock offset: 1.495 ms

Remote clock offset: -0.069 ms

Below is generated by plot.py at 2018-07-09 23:48:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.27 Mbit/s

95th percentile per-packet one-way delay: 122.608 ms

Loss rate: 10.84%

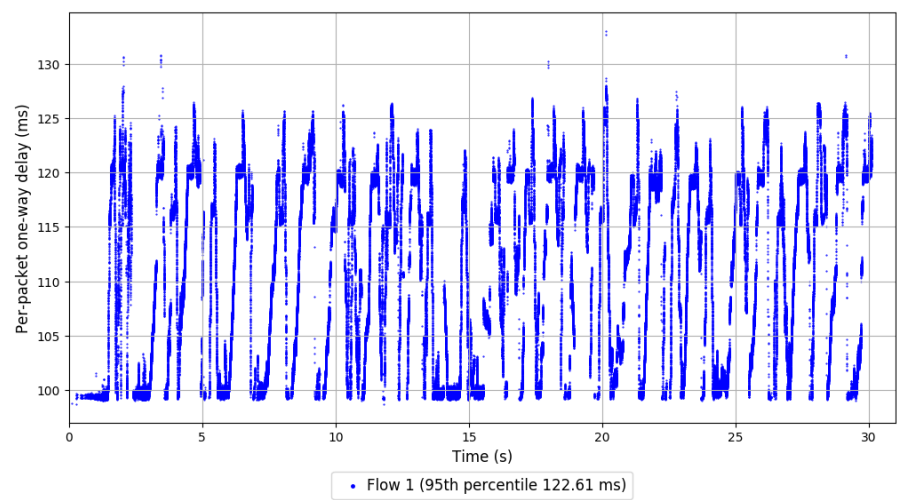
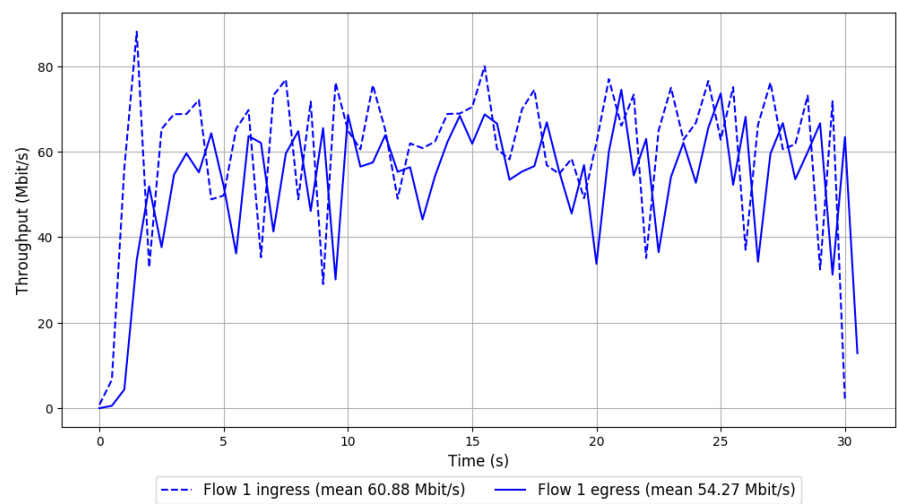
-- Flow 1:

Average throughput: 54.27 Mbit/s

95th percentile per-packet one-way delay: 122.608 ms

Loss rate: 10.84%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-07-09 20:39:29

End at: 2018-07-09 20:39:59

Local clock offset: 1.155 ms

Remote clock offset: -0.925 ms

Below is generated by plot.py at 2018-07-09 23:48:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.08 Mbit/s

95th percentile per-packet one-way delay: 108.188 ms

Loss rate: 9.48%

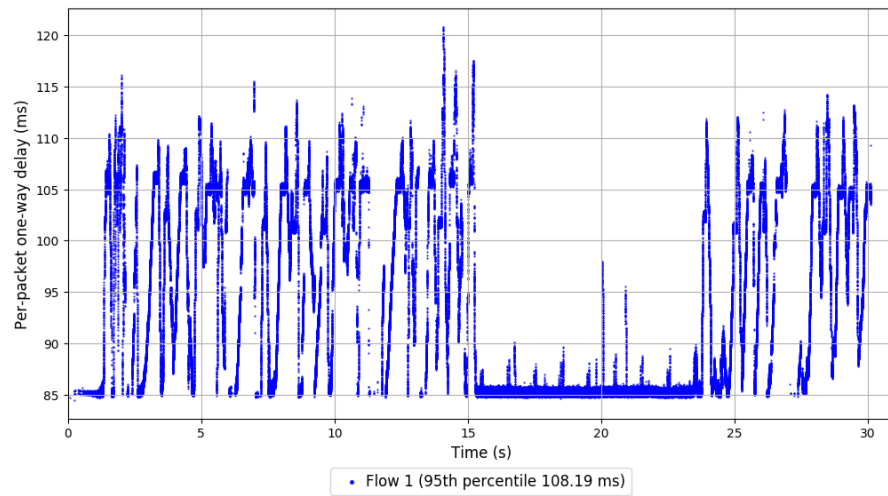
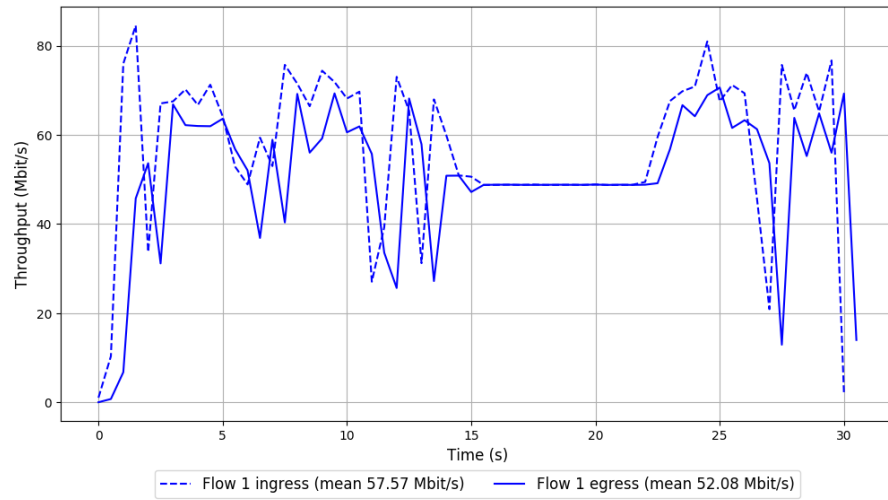
-- Flow 1:

Average throughput: 52.08 Mbit/s

95th percentile per-packet one-way delay: 108.188 ms

Loss rate: 9.48%

Run 2: Report of TCP BBR — Data Link

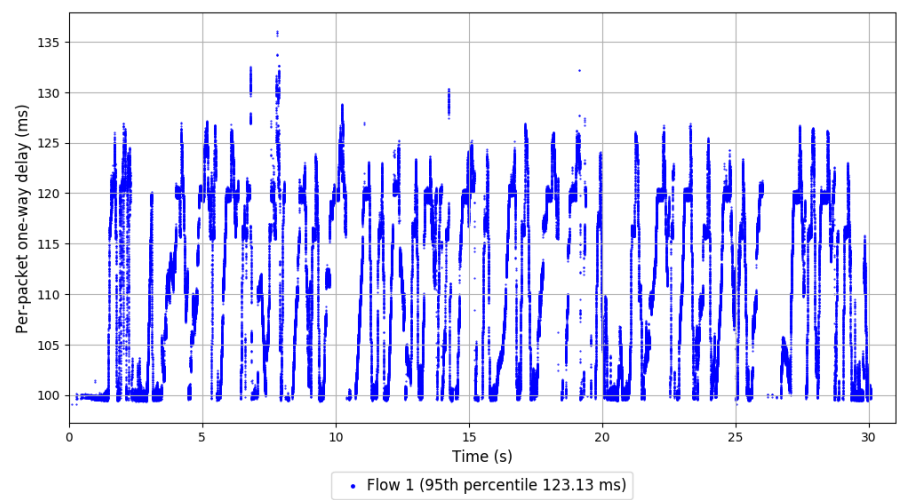
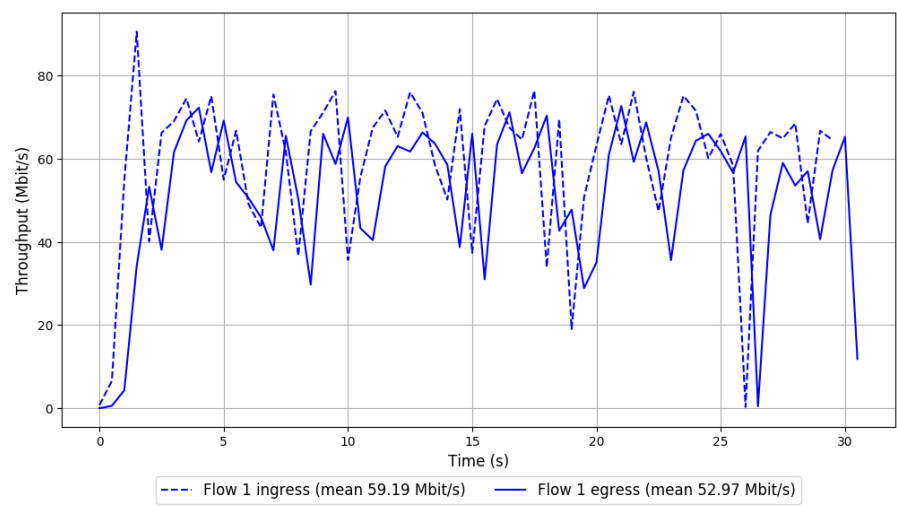


Run 3: Statistics of TCP BBR

Start at: 2018-07-09 21:07:10
End at: 2018-07-09 21:07:40
Local clock offset: 0.96 ms
Remote clock offset: -0.791 ms

Below is generated by plot.py at 2018-07-09 23:48:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 52.97 Mbit/s
95th percentile per-packet one-way delay: 123.130 ms
Loss rate: 10.50%
-- Flow 1:
Average throughput: 52.97 Mbit/s
95th percentile per-packet one-way delay: 123.130 ms
Loss rate: 10.50%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-07-09 21:29:33

End at: 2018-07-09 21:30:03

Local clock offset: 1.143 ms

Remote clock offset: -0.355 ms

Below is generated by plot.py at 2018-07-09 23:48:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.98 Mbit/s

95th percentile per-packet one-way delay: 123.219 ms

Loss rate: 9.07%

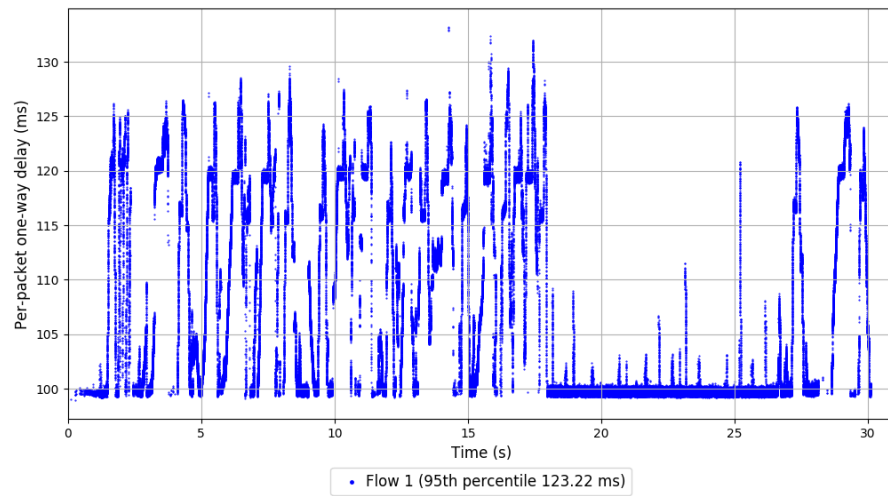
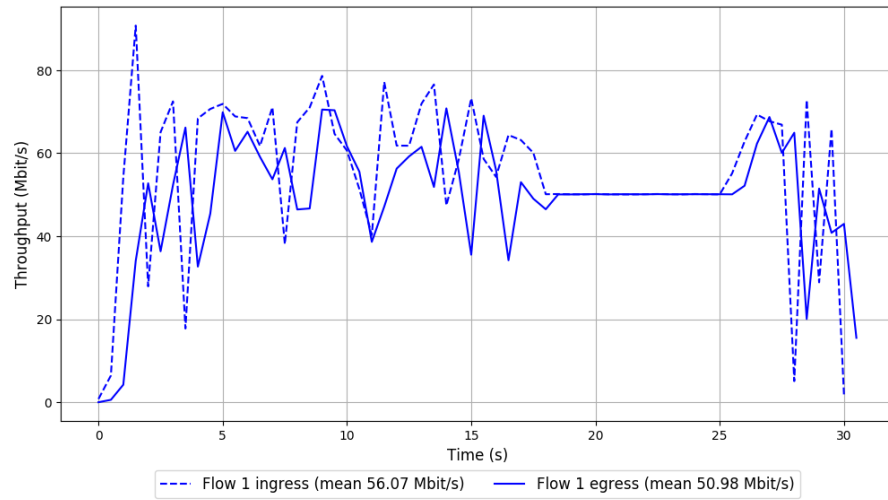
-- Flow 1:

Average throughput: 50.98 Mbit/s

95th percentile per-packet one-way delay: 123.219 ms

Loss rate: 9.07%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-07-09 21:51:56

End at: 2018-07-09 21:52:26

Local clock offset: 1.424 ms

Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-07-09 23:48:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.94 Mbit/s

95th percentile per-packet one-way delay: 108.666 ms

Loss rate: 9.79%

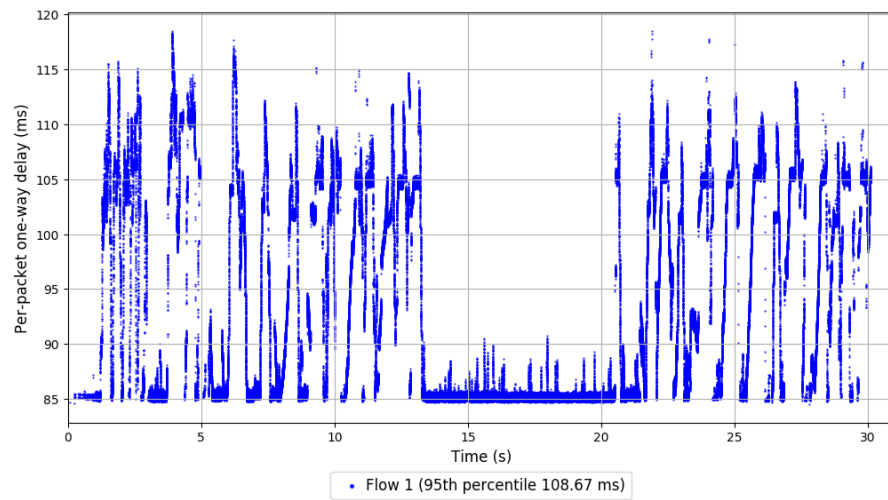
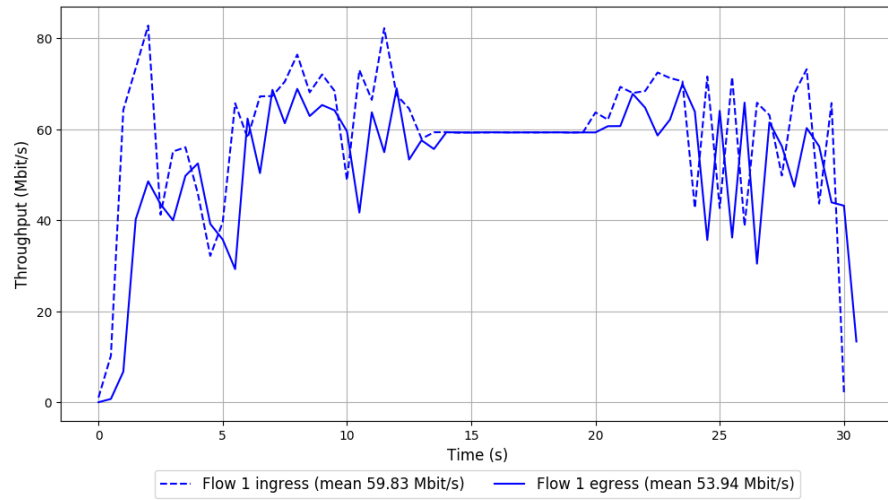
-- Flow 1:

Average throughput: 53.94 Mbit/s

95th percentile per-packet one-way delay: 108.666 ms

Loss rate: 9.79%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-07-09 22:14:30

End at: 2018-07-09 22:15:00

Local clock offset: 1.579 ms

Remote clock offset: 0.836 ms

Below is generated by plot.py at 2018-07-09 23:48:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.39 Mbit/s

95th percentile per-packet one-way delay: 122.438 ms

Loss rate: 10.71%

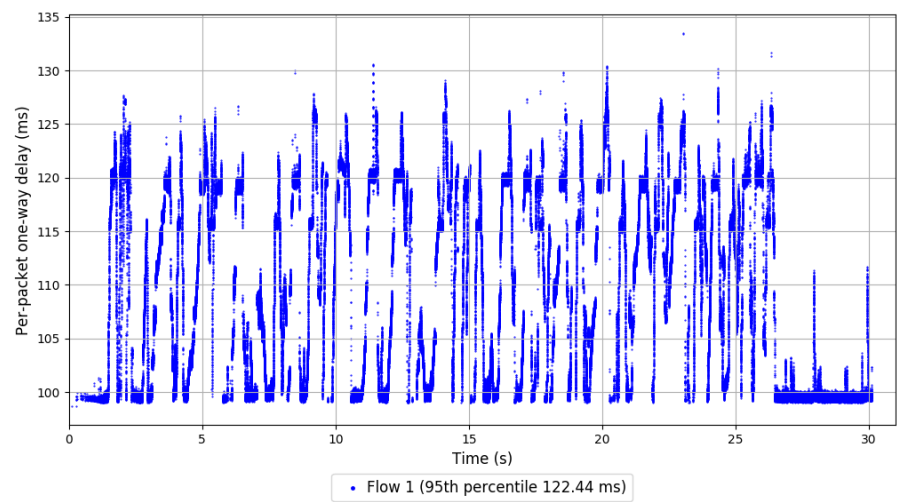
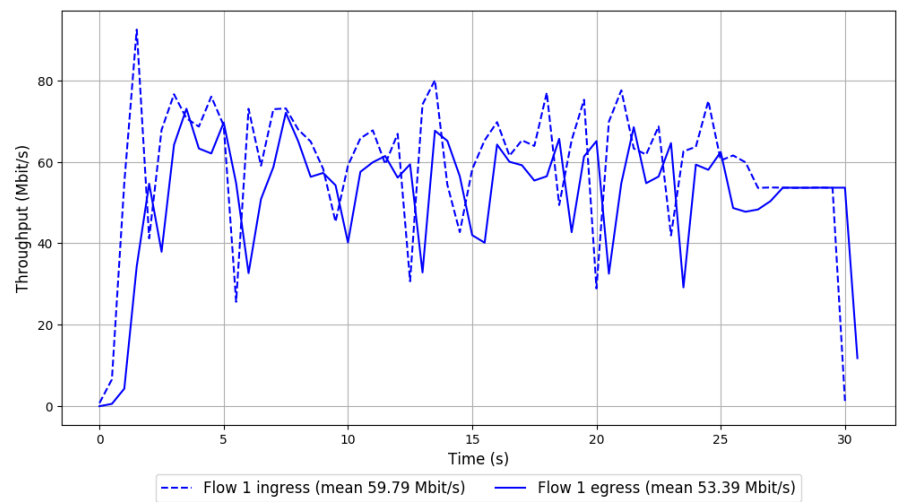
-- Flow 1:

Average throughput: 53.39 Mbit/s

95th percentile per-packet one-way delay: 122.438 ms

Loss rate: 10.71%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-07-09 22:36:58

End at: 2018-07-09 22:37:28

Local clock offset: 1.659 ms

Remote clock offset: 0.761 ms

Below is generated by plot.py at 2018-07-09 23:48:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.73 Mbit/s

95th percentile per-packet one-way delay: 123.734 ms

Loss rate: 10.40%

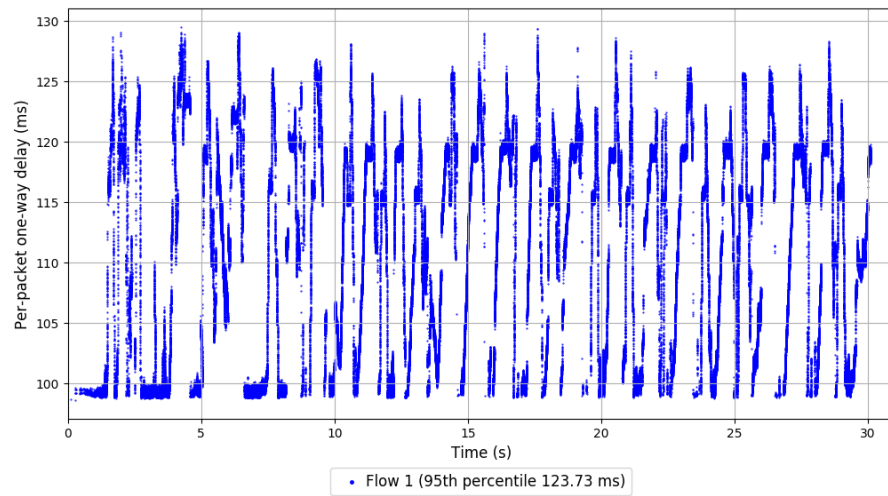
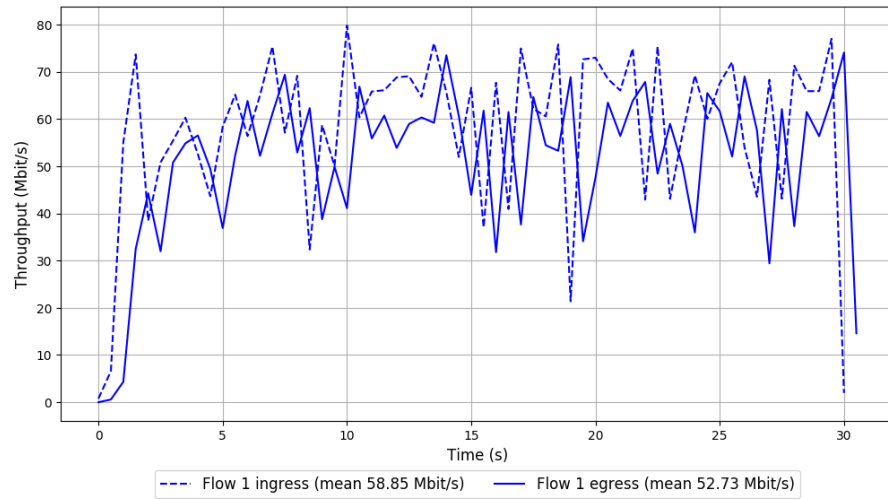
-- Flow 1:

Average throughput: 52.73 Mbit/s

95th percentile per-packet one-way delay: 123.734 ms

Loss rate: 10.40%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-07-09 22:59:25

End at: 2018-07-09 22:59:55

Local clock offset: 1.669 ms

Remote clock offset: 0.422 ms

Below is generated by plot.py at 2018-07-09 23:48:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.04 Mbit/s

95th percentile per-packet one-way delay: 122.165 ms

Loss rate: 8.90%

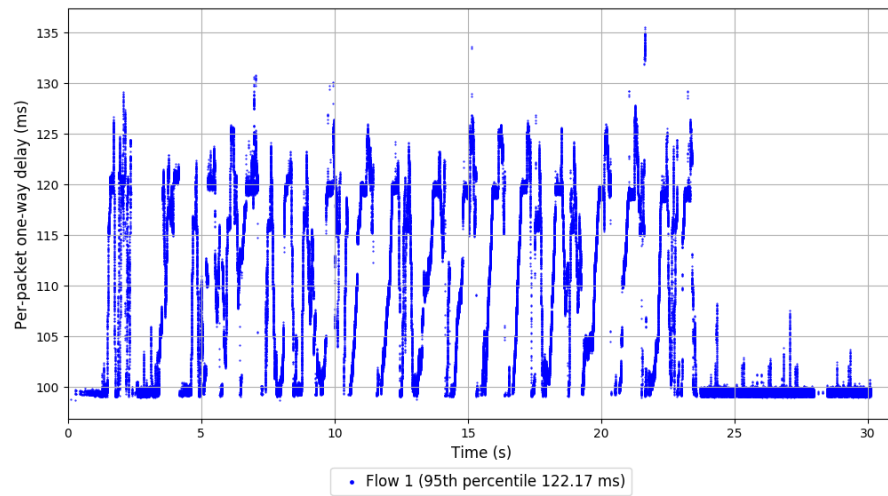
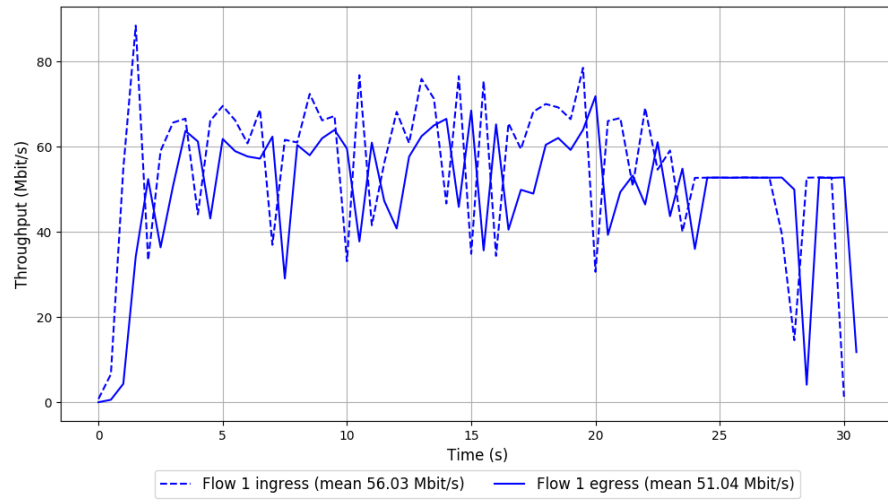
-- Flow 1:

Average throughput: 51.04 Mbit/s

95th percentile per-packet one-way delay: 122.165 ms

Loss rate: 8.90%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-09 23:21:48

End at: 2018-07-09 23:22:18

Local clock offset: 1.761 ms

Remote clock offset: -0.258 ms

Below is generated by plot.py at 2018-07-09 23:49:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.51 Mbit/s

95th percentile per-packet one-way delay: 121.384 ms

Loss rate: 9.57%

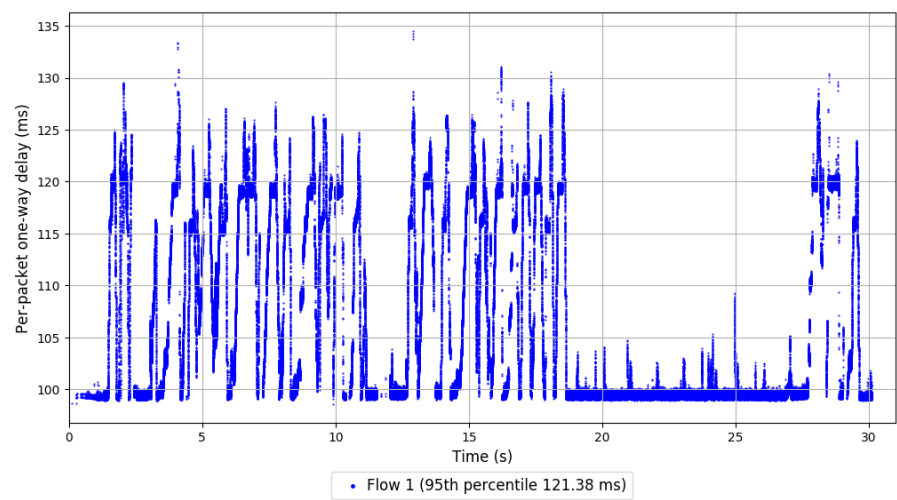
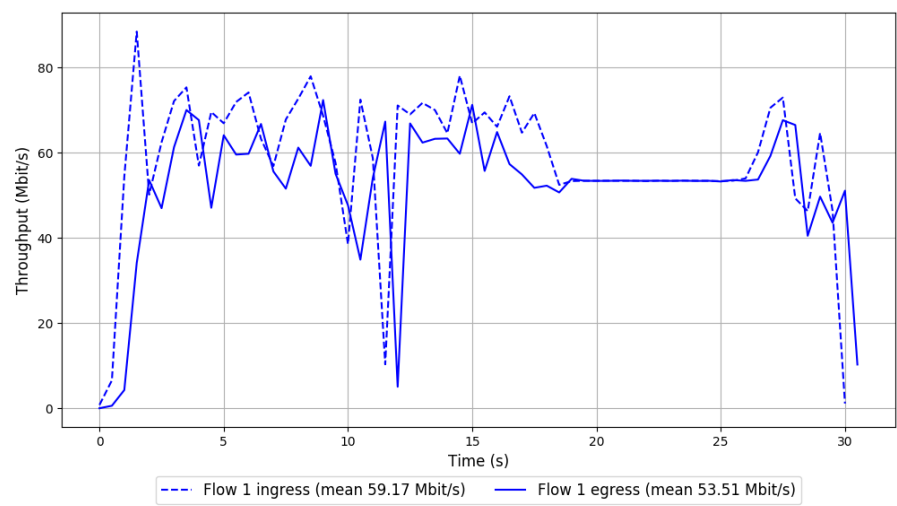
-- Flow 1:

Average throughput: 53.51 Mbit/s

95th percentile per-packet one-way delay: 121.384 ms

Loss rate: 9.57%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-07-09 23:44:12

End at: 2018-07-09 23:44:42

Local clock offset: 1.613 ms

Remote clock offset: -0.583 ms

Below is generated by plot.py at 2018-07-09 23:49:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.35 Mbit/s

95th percentile per-packet one-way delay: 125.878 ms

Loss rate: 11.62%

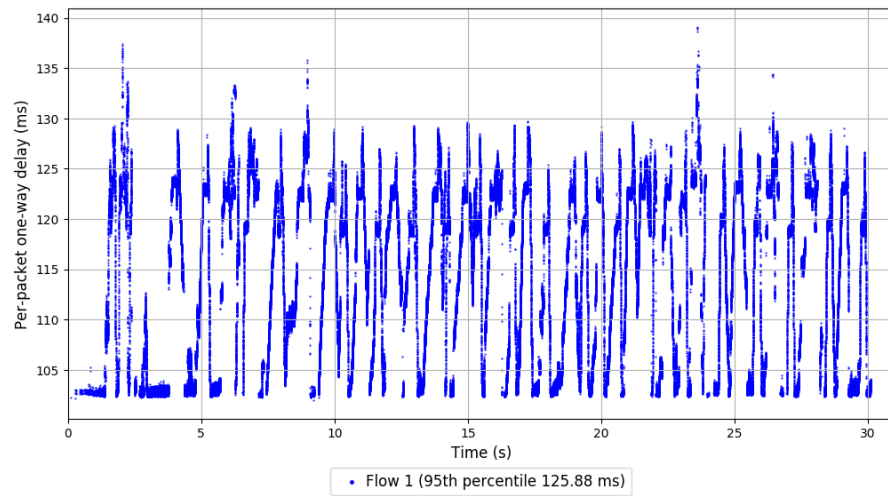
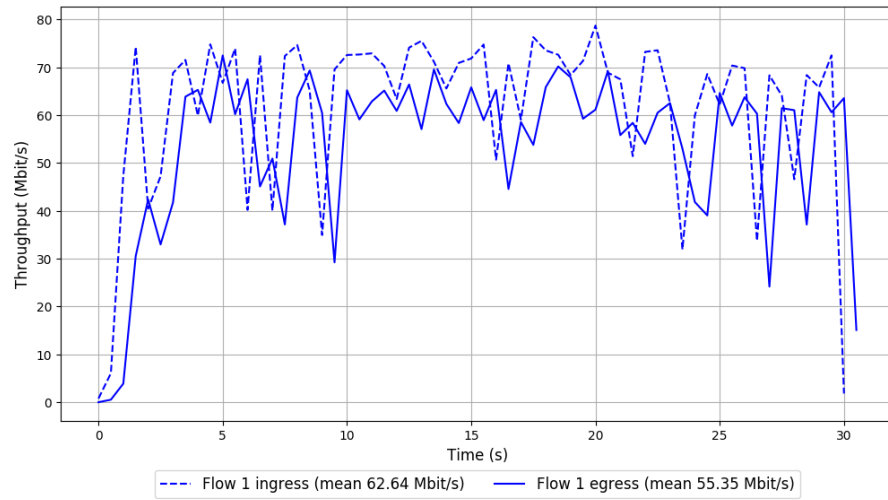
-- Flow 1:

Average throughput: 55.35 Mbit/s

95th percentile per-packet one-way delay: 125.878 ms

Loss rate: 11.62%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-07-09 20:03:57

End at: 2018-07-09 20:04:27

Local clock offset: 1.26 ms

Remote clock offset: 0.129 ms

Below is generated by plot.py at 2018-07-09 23:49:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.26 Mbit/s

95th percentile per-packet one-way delay: 120.423 ms

Loss rate: 14.96%

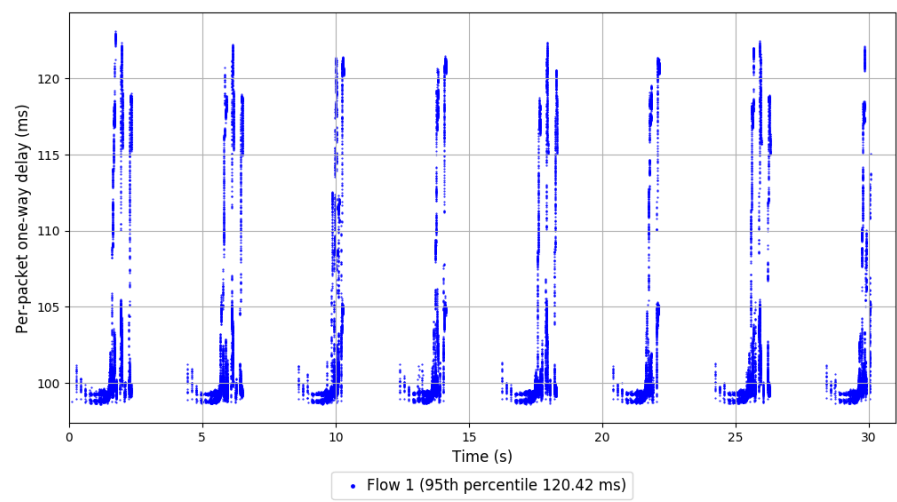
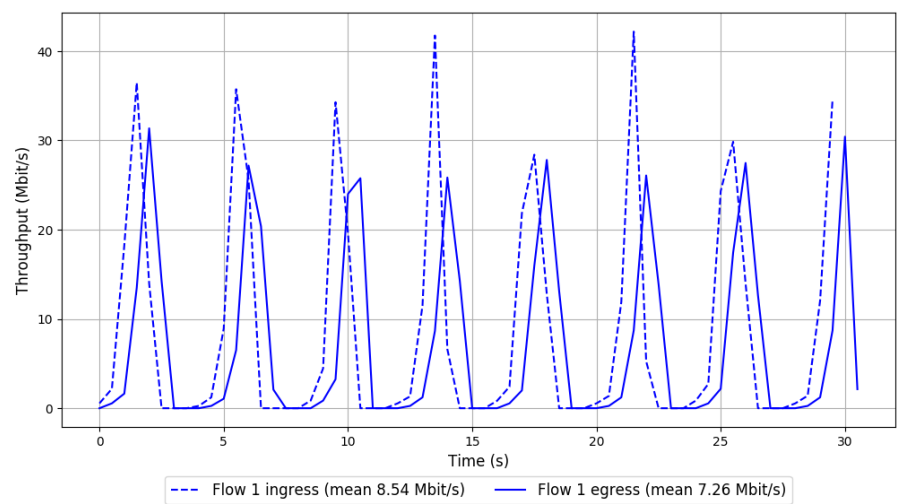
-- Flow 1:

Average throughput: 7.26 Mbit/s

95th percentile per-packet one-way delay: 120.423 ms

Loss rate: 14.96%

Run 1: Report of Copa — Data Link

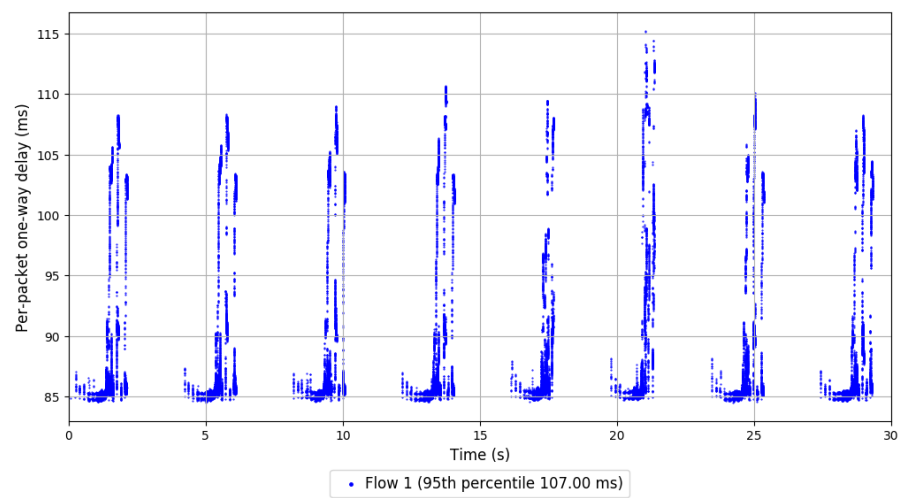
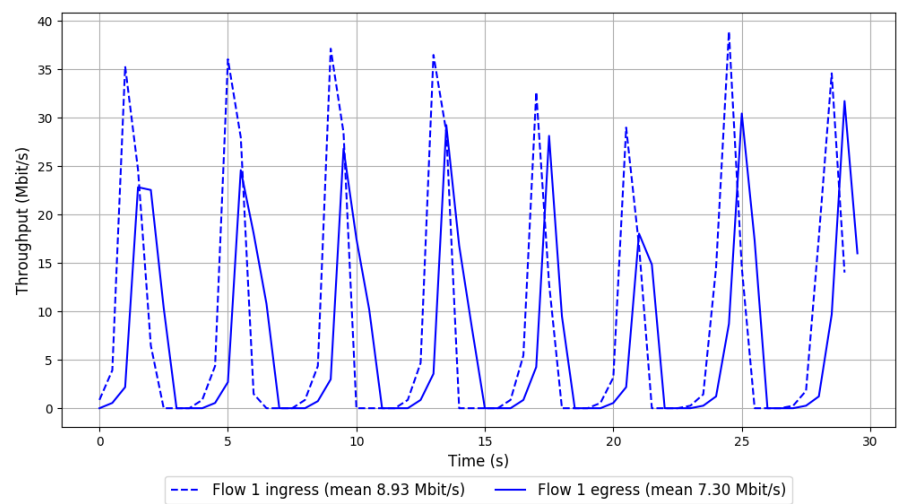


Run 2: Statistics of Copa

Start at: 2018-07-09 20:26:24
End at: 2018-07-09 20:26:54
Local clock offset: 1.421 ms
Remote clock offset: -0.603 ms

Below is generated by plot.py at 2018-07-09 23:49:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.30 Mbit/s
95th percentile per-packet one-way delay: 107.004 ms
Loss rate: 18.25%
-- Flow 1:
Average throughput: 7.30 Mbit/s
95th percentile per-packet one-way delay: 107.004 ms
Loss rate: 18.25%

Run 2: Report of Copa — Data Link

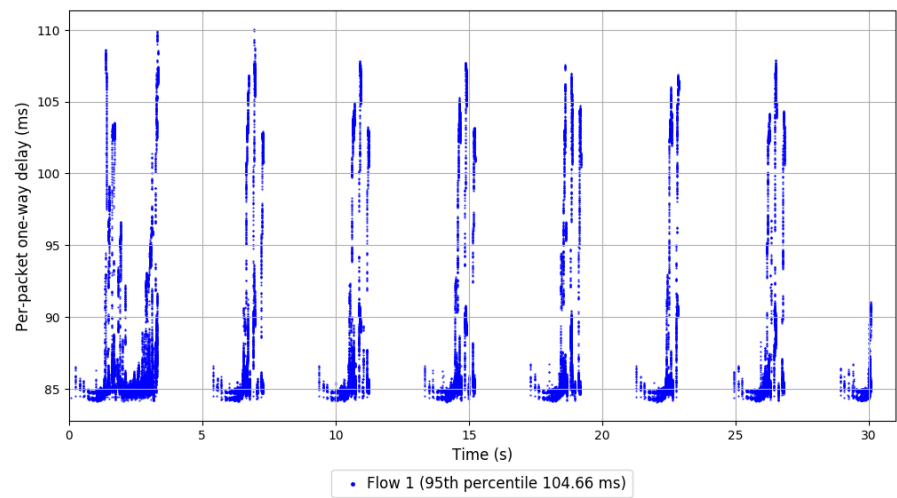
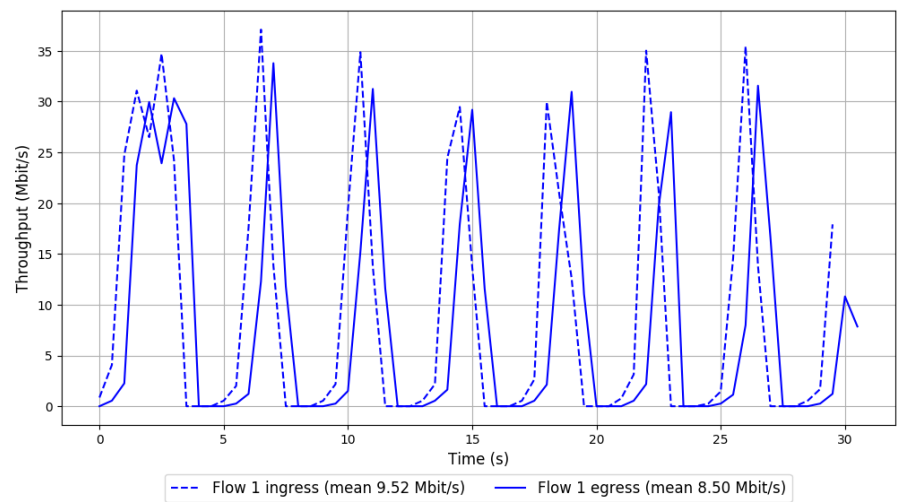


Run 3: Statistics of Copa

Start at: 2018-07-09 20:54:00
End at: 2018-07-09 20:54:30
Local clock offset: 0.931 ms
Remote clock offset: -0.901 ms

Below is generated by plot.py at 2018-07-09 23:49:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 8.50 Mbit/s
95th percentile per-packet one-way delay: 104.659 ms
Loss rate: 10.71%
-- Flow 1:
Average throughput: 8.50 Mbit/s
95th percentile per-packet one-way delay: 104.659 ms
Loss rate: 10.71%

Run 3: Report of Copa — Data Link

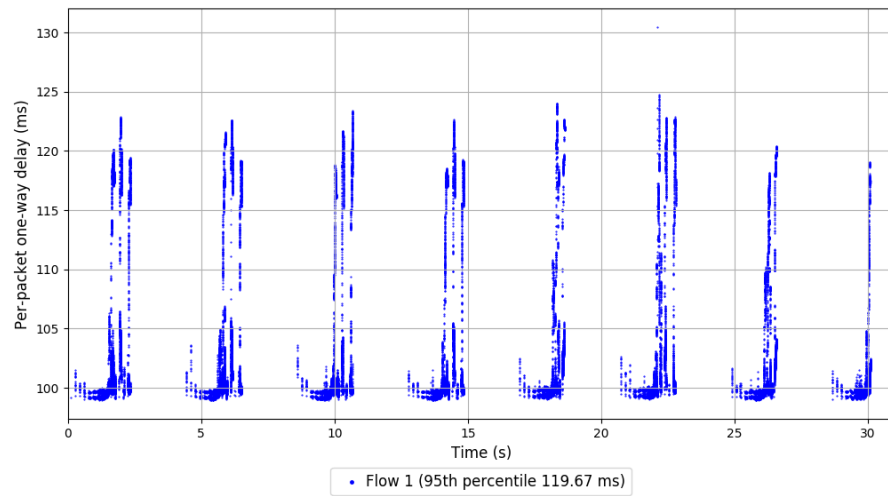
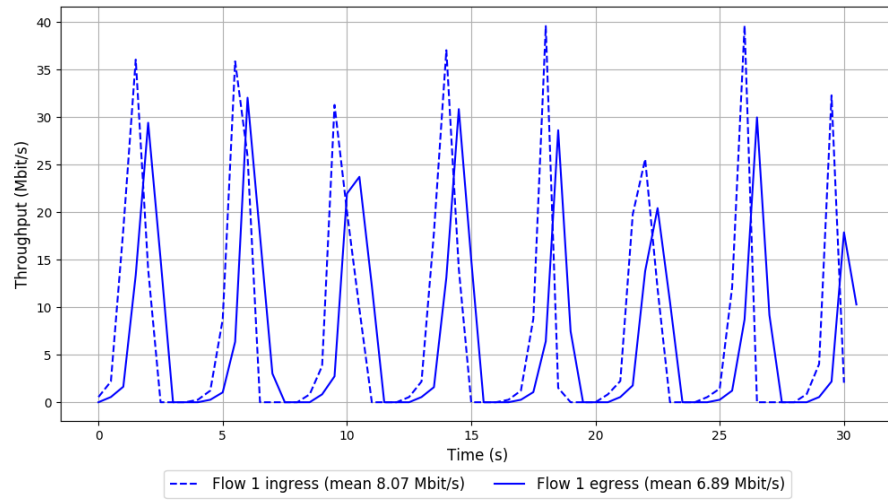


Run 4: Statistics of Copa

Start at: 2018-07-09 21:16:28
End at: 2018-07-09 21:16:58
Local clock offset: 0.987 ms
Remote clock offset: -0.778 ms

Below is generated by plot.py at 2018-07-09 23:49:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.89 Mbit/s
95th percentile per-packet one-way delay: 119.675 ms
Loss rate: 14.64%
-- Flow 1:
Average throughput: 6.89 Mbit/s
95th percentile per-packet one-way delay: 119.675 ms
Loss rate: 14.64%

Run 4: Report of Copa — Data Link

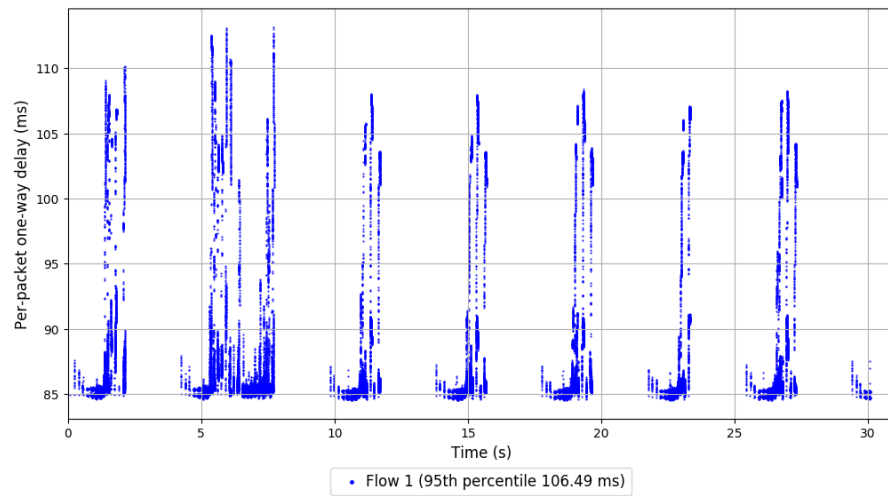
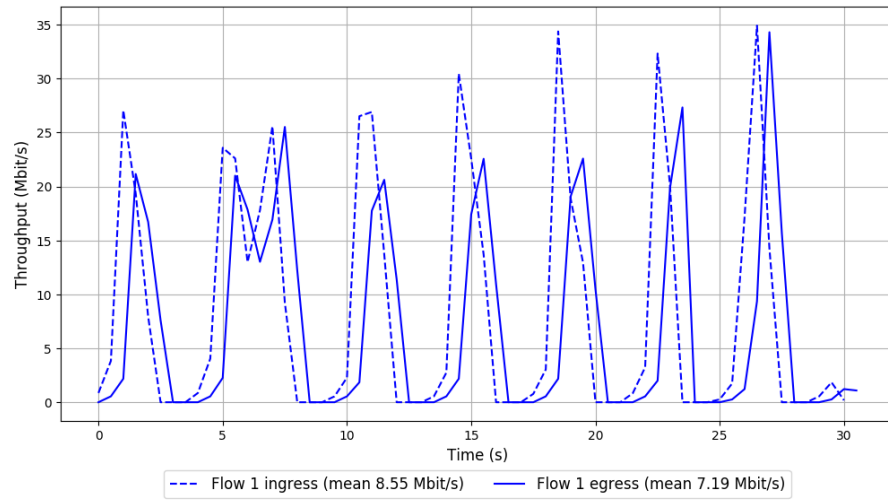


Run 5: Statistics of Copa

Start at: 2018-07-09 21:38:48
End at: 2018-07-09 21:39:18
Local clock offset: 1.498 ms
Remote clock offset: -0.201 ms

Below is generated by plot.py at 2018-07-09 23:49:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.19 Mbit/s
95th percentile per-packet one-way delay: 106.487 ms
Loss rate: 15.93%
-- Flow 1:
Average throughput: 7.19 Mbit/s
95th percentile per-packet one-way delay: 106.487 ms
Loss rate: 15.93%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-07-09 22:01:22

End at: 2018-07-09 22:01:52

Local clock offset: 1.336 ms

Remote clock offset: 0.278 ms

Below is generated by plot.py at 2018-07-09 23:49:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.81 Mbit/s

95th percentile per-packet one-way delay: 103.480 ms

Loss rate: 4.89%

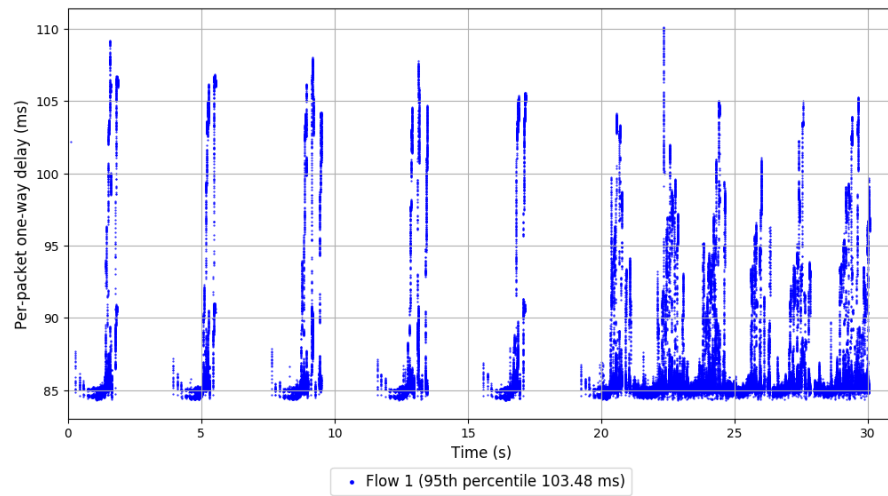
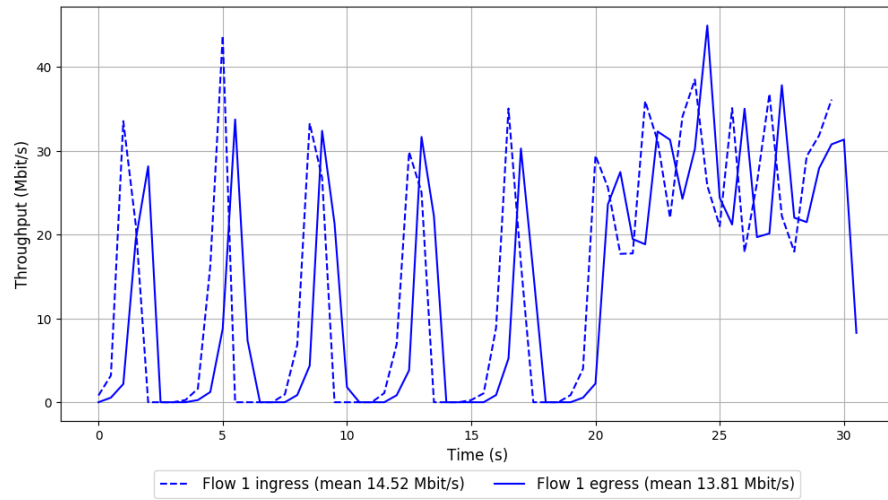
-- Flow 1:

Average throughput: 13.81 Mbit/s

95th percentile per-packet one-way delay: 103.480 ms

Loss rate: 4.89%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-07-09 22:23:48

End at: 2018-07-09 22:24:18

Local clock offset: 1.556 ms

Remote clock offset: 1.036 ms

Below is generated by plot.py at 2018-07-09 23:49:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.90 Mbit/s

95th percentile per-packet one-way delay: 119.524 ms

Loss rate: 17.29%

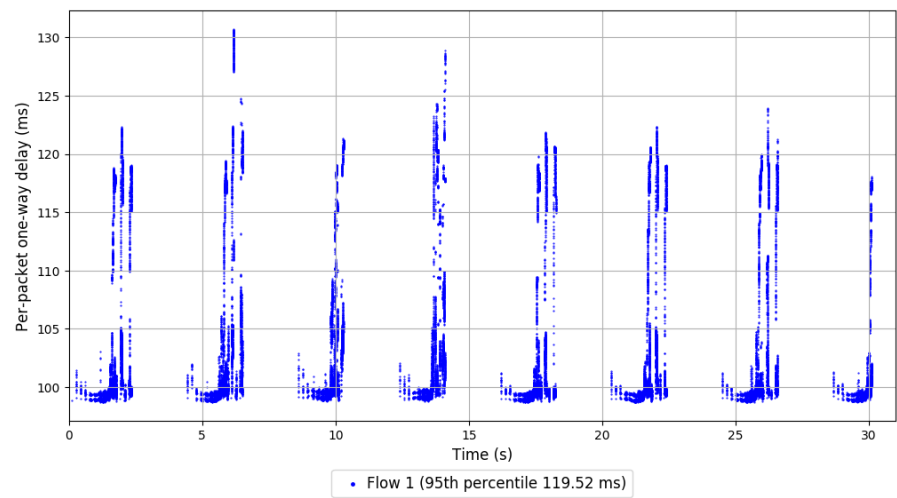
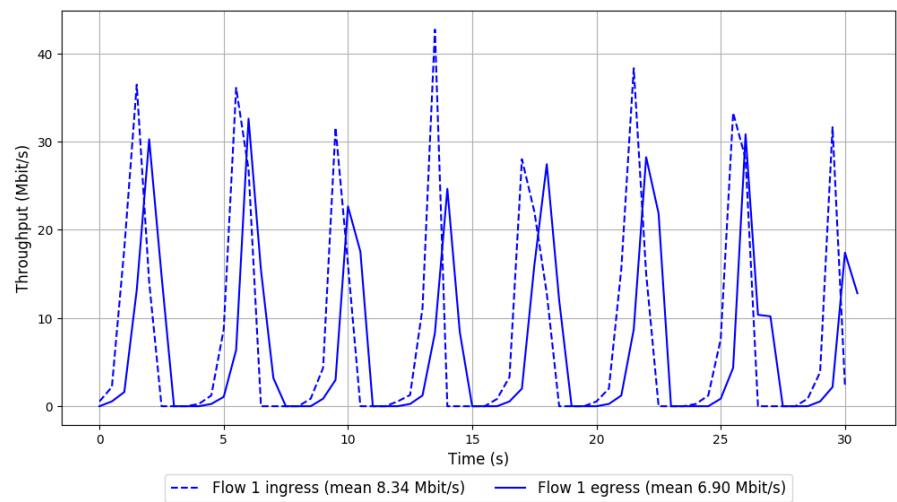
-- Flow 1:

Average throughput: 6.90 Mbit/s

95th percentile per-packet one-way delay: 119.524 ms

Loss rate: 17.29%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-07-09 22:46:15

End at: 2018-07-09 22:46:45

Local clock offset: 1.542 ms

Remote clock offset: 0.505 ms

Below is generated by plot.py at 2018-07-09 23:49:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.68 Mbit/s

95th percentile per-packet one-way delay: 103.397 ms

Loss rate: 9.92%

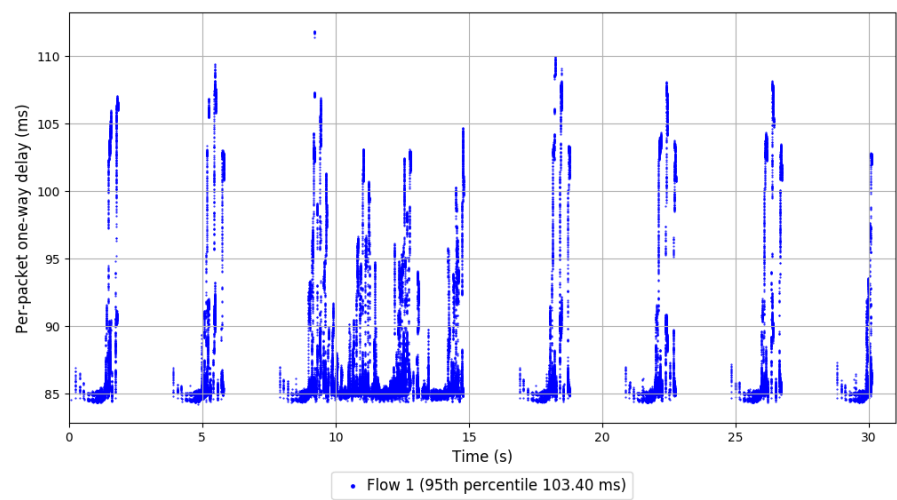
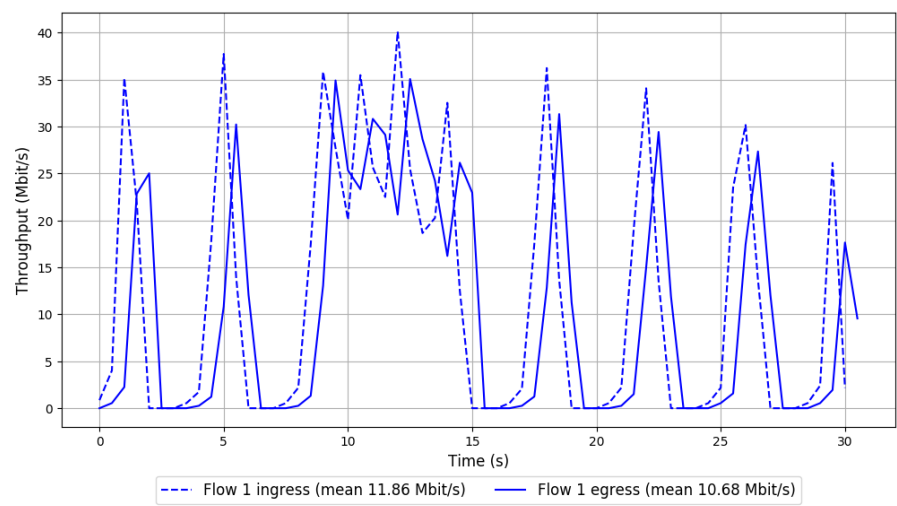
-- Flow 1:

Average throughput: 10.68 Mbit/s

95th percentile per-packet one-way delay: 103.397 ms

Loss rate: 9.92%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-07-09 23:08:43

End at: 2018-07-09 23:09:13

Local clock offset: 1.559 ms

Remote clock offset: 0.223 ms

Below is generated by plot.py at 2018-07-09 23:49:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.04 Mbit/s

95th percentile per-packet one-way delay: 104.682 ms

Loss rate: 8.13%

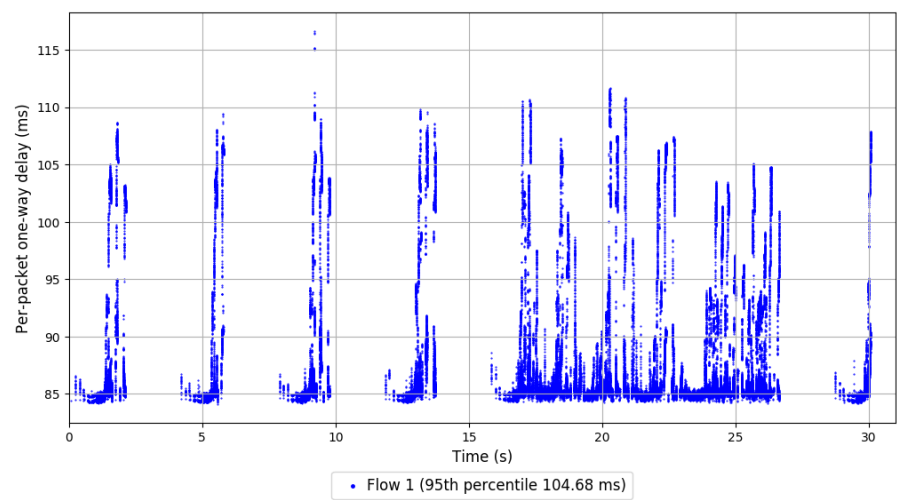
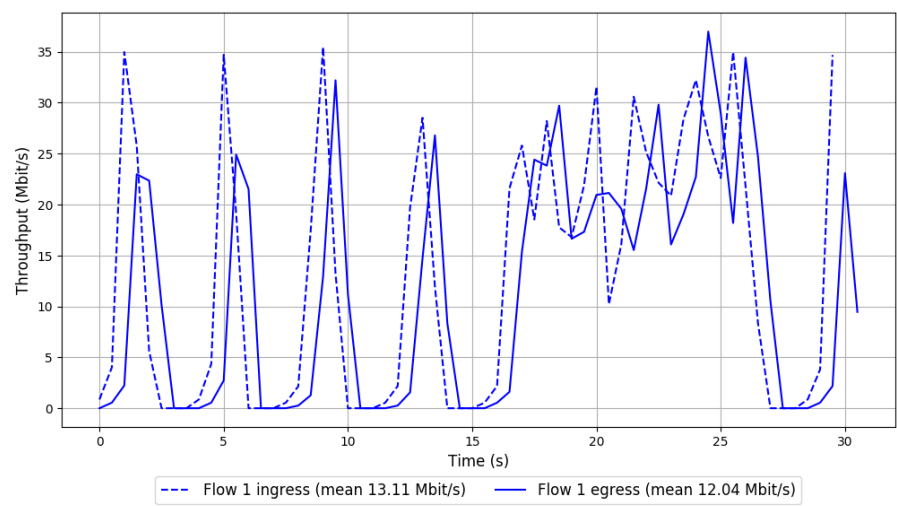
-- Flow 1:

Average throughput: 12.04 Mbit/s

95th percentile per-packet one-way delay: 104.682 ms

Loss rate: 8.13%

Run 9: Report of Copa — Data Link

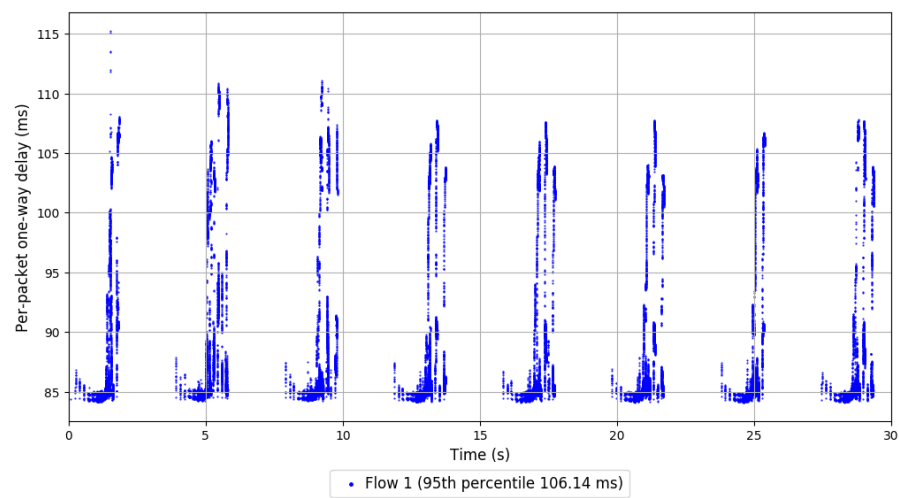
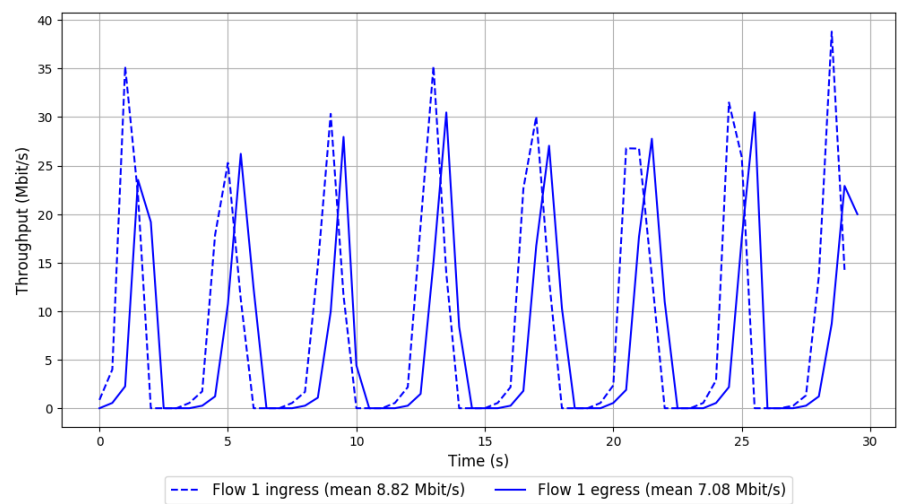


Run 10: Statistics of Copa

Start at: 2018-07-09 23:31:03
End at: 2018-07-09 23:31:33
Local clock offset: 1.598 ms
Remote clock offset: -0.383 ms

Below is generated by plot.py at 2018-07-09 23:49:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.08 Mbit/s
95th percentile per-packet one-way delay: 106.136 ms
Loss rate: 19.70%
-- Flow 1:
Average throughput: 7.08 Mbit/s
95th percentile per-packet one-way delay: 106.136 ms
Loss rate: 19.70%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-07-09 20:14:29

End at: 2018-07-09 20:14:59

Local clock offset: 1.674 ms

Remote clock offset: 0.234 ms

Below is generated by plot.py at 2018-07-09 23:49:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.65 Mbit/s

95th percentile per-packet one-way delay: 104.850 ms

Loss rate: 0.35%

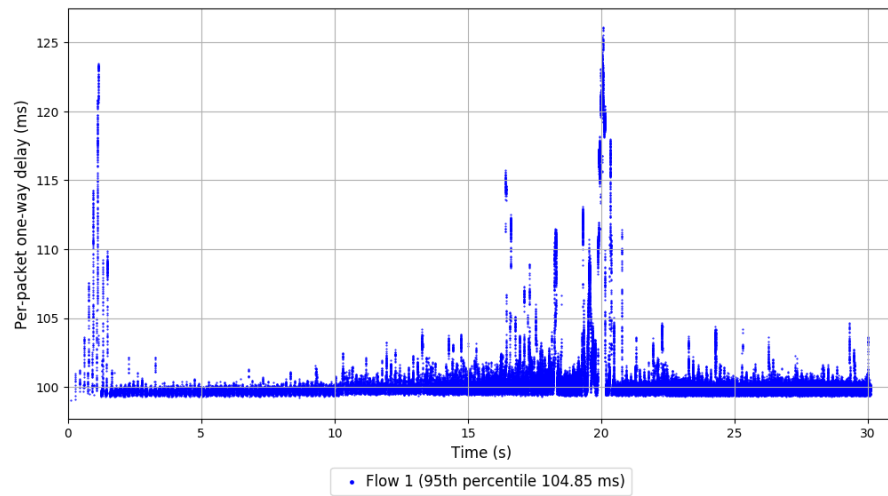
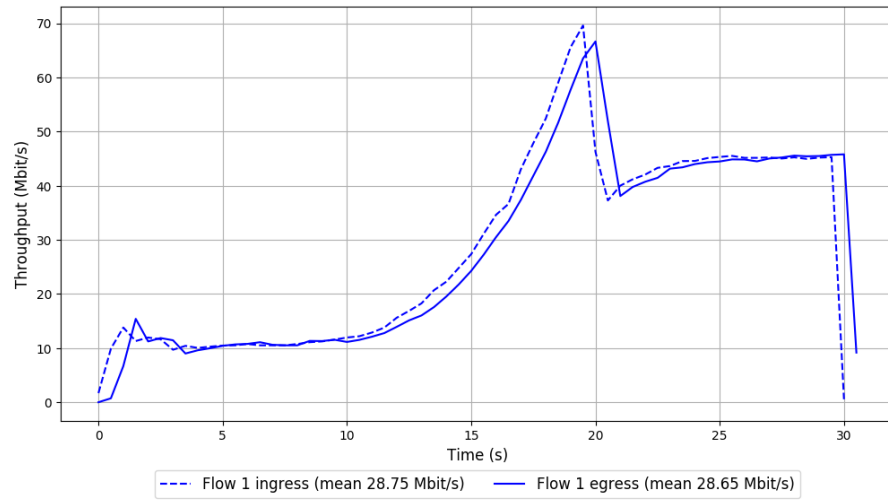
-- Flow 1:

Average throughput: 28.65 Mbit/s

95th percentile per-packet one-way delay: 104.850 ms

Loss rate: 0.35%

Run 1: Report of TCP Cubic — Data Link

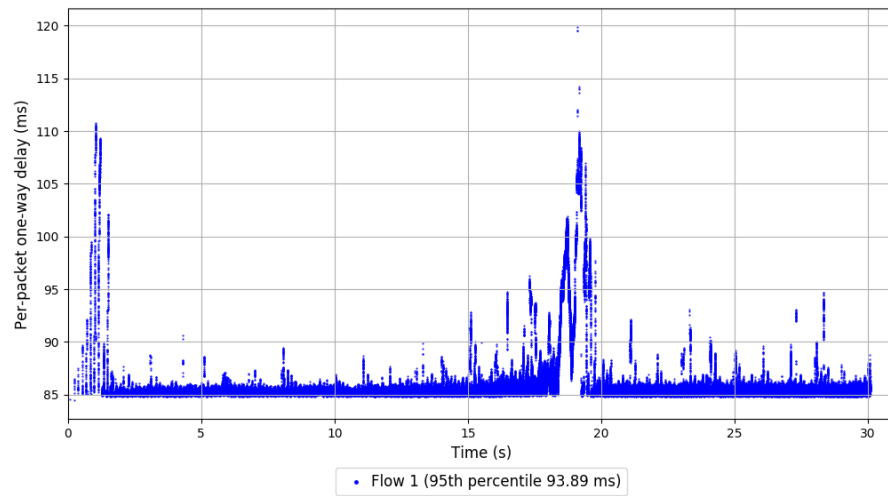
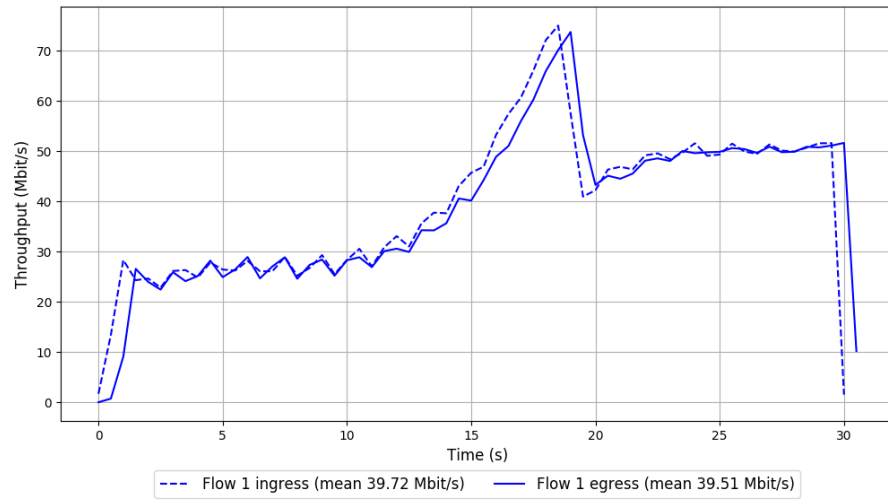


Run 2: Statistics of TCP Cubic

Start at: 2018-07-09 20:36:52
End at: 2018-07-09 20:37:22
Local clock offset: 1.296 ms
Remote clock offset: -0.848 ms

Below is generated by plot.py at 2018-07-09 23:49:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 39.51 Mbit/s
95th percentile per-packet one-way delay: 93.891 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 39.51 Mbit/s
95th percentile per-packet one-way delay: 93.891 ms
Loss rate: 0.51%

Run 2: Report of TCP Cubic — Data Link

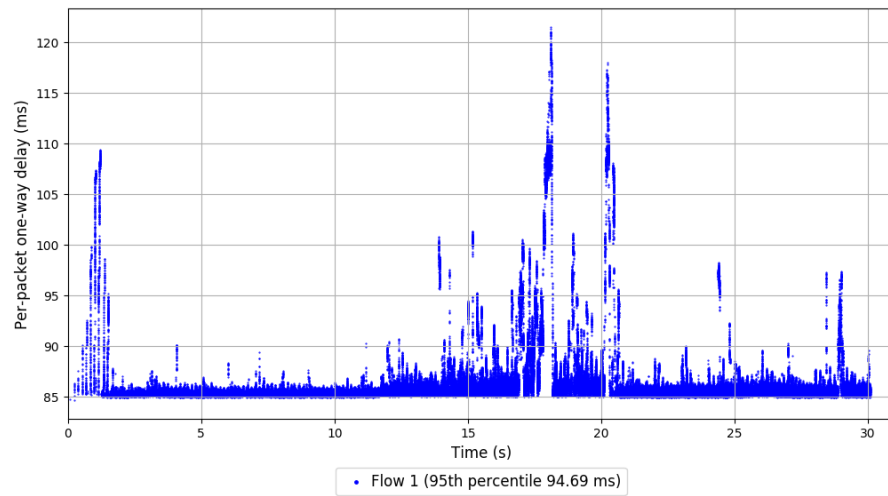
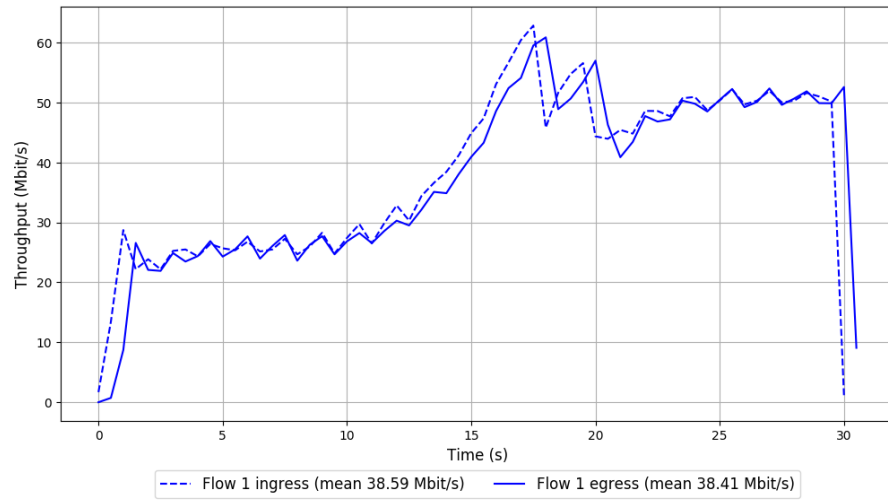


Run 3: Statistics of TCP Cubic

Start at: 2018-07-09 21:04:32
End at: 2018-07-09 21:05:02
Local clock offset: 0.913 ms
Remote clock offset: -0.752 ms

Below is generated by plot.py at 2018-07-09 23:49:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 38.41 Mbit/s
95th percentile per-packet one-way delay: 94.686 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 38.41 Mbit/s
95th percentile per-packet one-way delay: 94.686 ms
Loss rate: 0.47%

Run 3: Report of TCP Cubic — Data Link

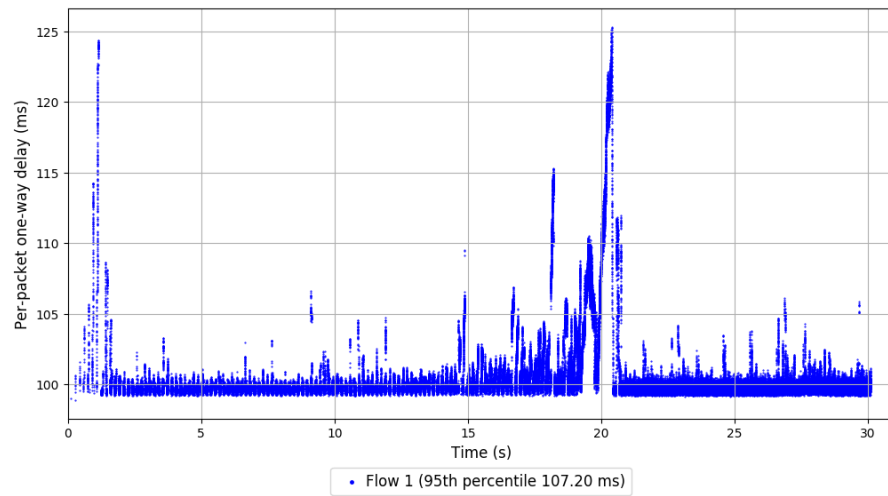
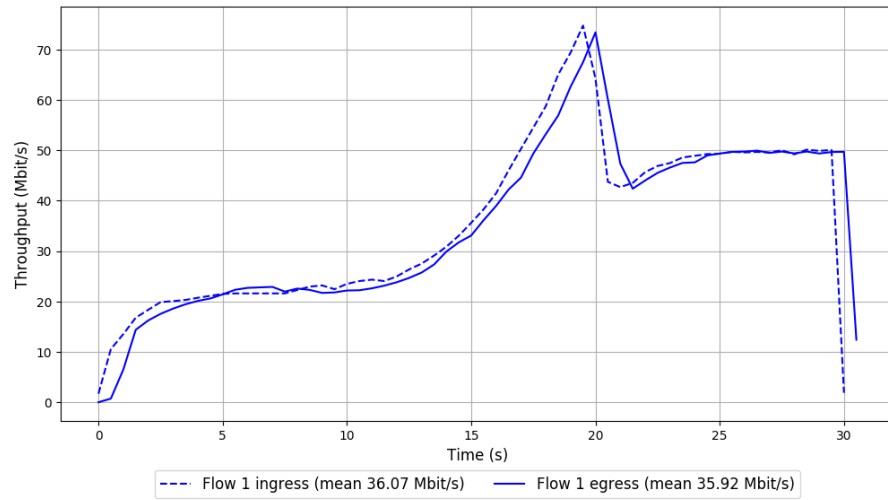


Run 4: Statistics of TCP Cubic

Start at: 2018-07-09 21:26:57
End at: 2018-07-09 21:27:27
Local clock offset: 1.325 ms
Remote clock offset: -0.488 ms

Below is generated by plot.py at 2018-07-09 23:49:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 35.92 Mbit/s
95th percentile per-packet one-way delay: 107.204 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 35.92 Mbit/s
95th percentile per-packet one-way delay: 107.204 ms
Loss rate: 0.42%

Run 4: Report of TCP Cubic — Data Link

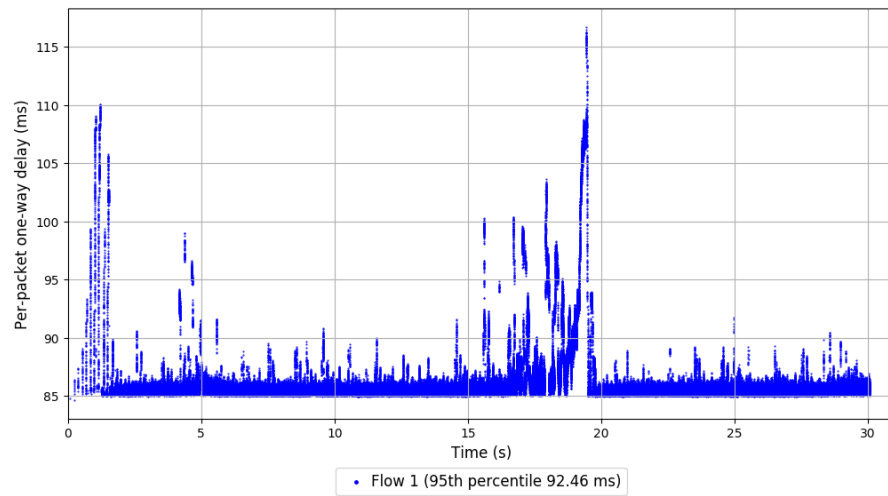
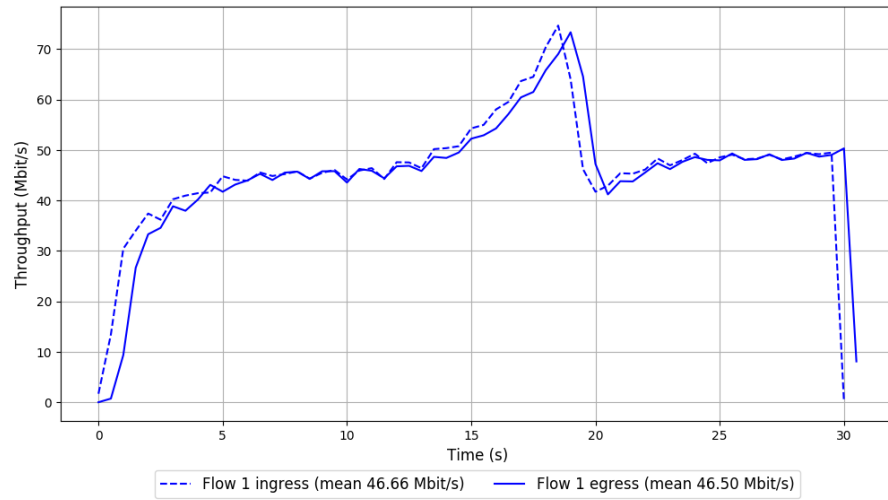


Run 5: Statistics of TCP Cubic

Start at: 2018-07-09 21:49:19
End at: 2018-07-09 21:49:49
Local clock offset: 1.246 ms
Remote clock offset: -0.036 ms

Below is generated by plot.py at 2018-07-09 23:49:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 46.50 Mbit/s
95th percentile per-packet one-way delay: 92.456 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 46.50 Mbit/s
95th percentile per-packet one-way delay: 92.456 ms
Loss rate: 0.34%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-07-09 22:11:54

End at: 2018-07-09 22:12:24

Local clock offset: 1.43 ms

Remote clock offset: 0.76 ms

Below is generated by plot.py at 2018-07-09 23:49:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.92 Mbit/s

95th percentile per-packet one-way delay: 108.711 ms

Loss rate: 0.41%

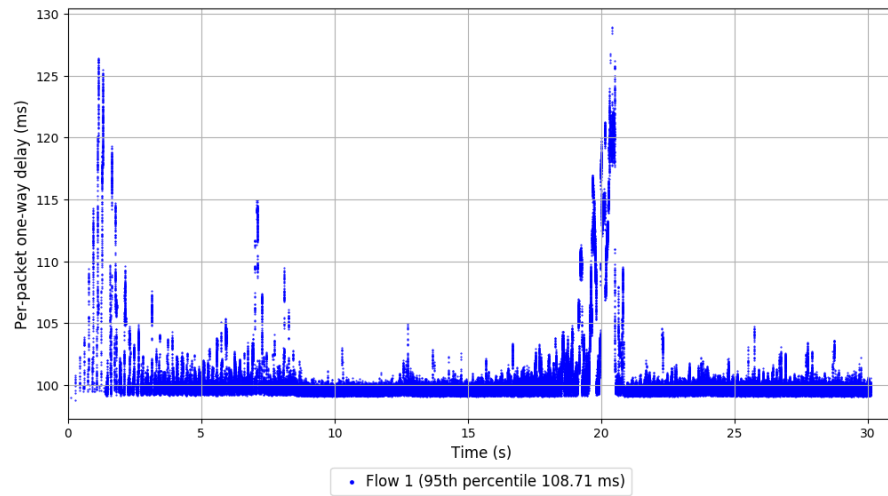
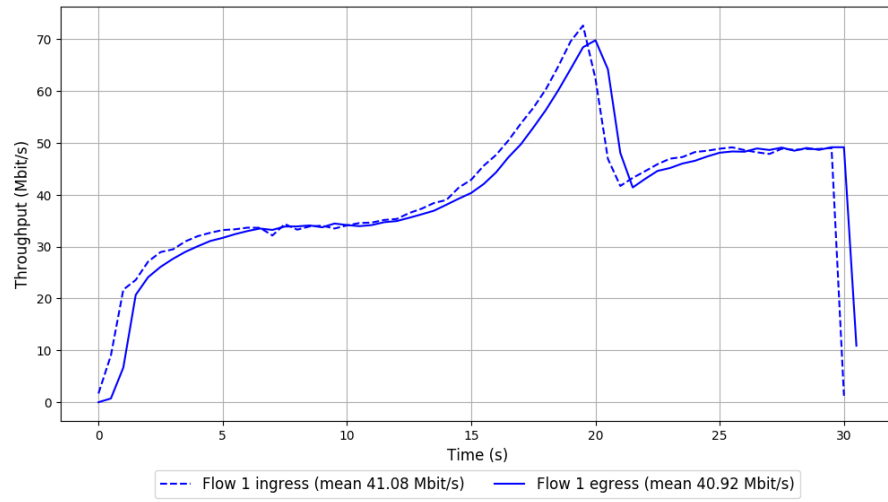
-- Flow 1:

Average throughput: 40.92 Mbit/s

95th percentile per-packet one-way delay: 108.711 ms

Loss rate: 0.41%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-07-09 22:34:21

End at: 2018-07-09 22:34:51

Local clock offset: 1.521 ms

Remote clock offset: 0.874 ms

Below is generated by plot.py at 2018-07-09 23:49:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.13 Mbit/s

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

Loss rate: 0.50%

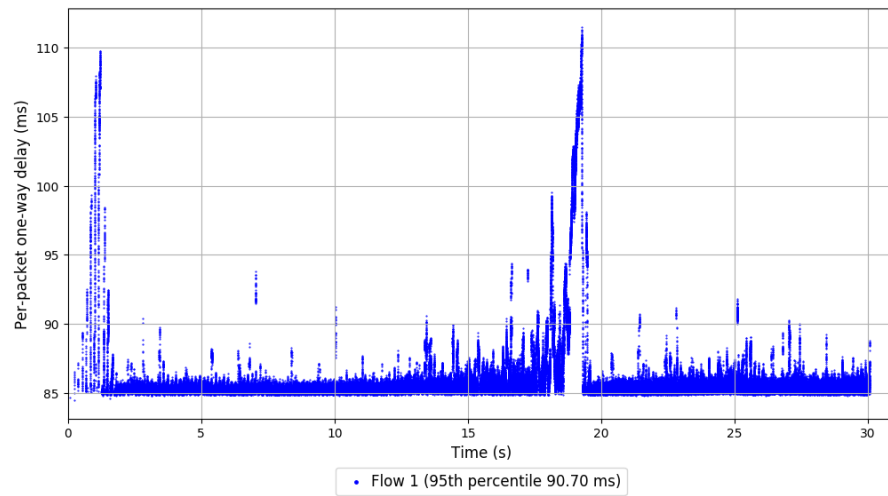
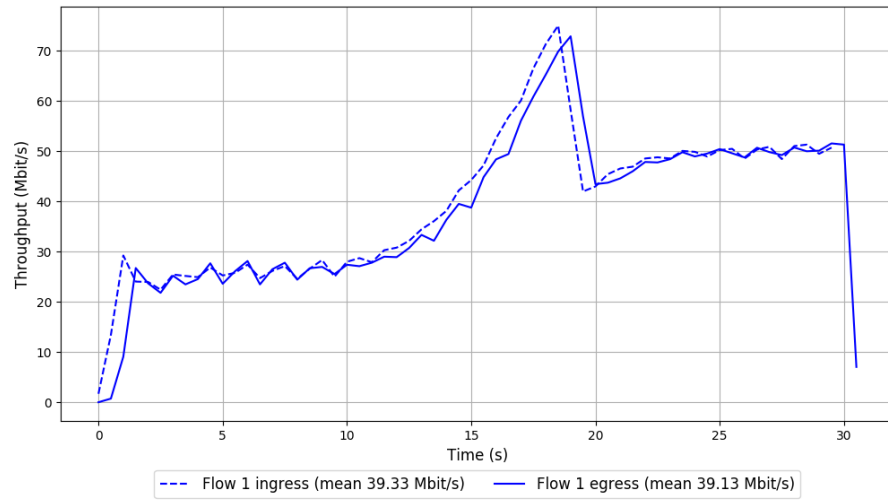
-- Flow 1:

Average throughput: 39.13 Mbit/s

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

Loss rate: 0.50%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-07-09 22:56:48

End at: 2018-07-09 22:57:18

Local clock offset: 1.405 ms

Remote clock offset: 0.437 ms

Below is generated by plot.py at 2018-07-09 23:49:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.89 Mbit/s

95th percentile per-packet one-way delay: 113.594 ms

Loss rate: 0.39%

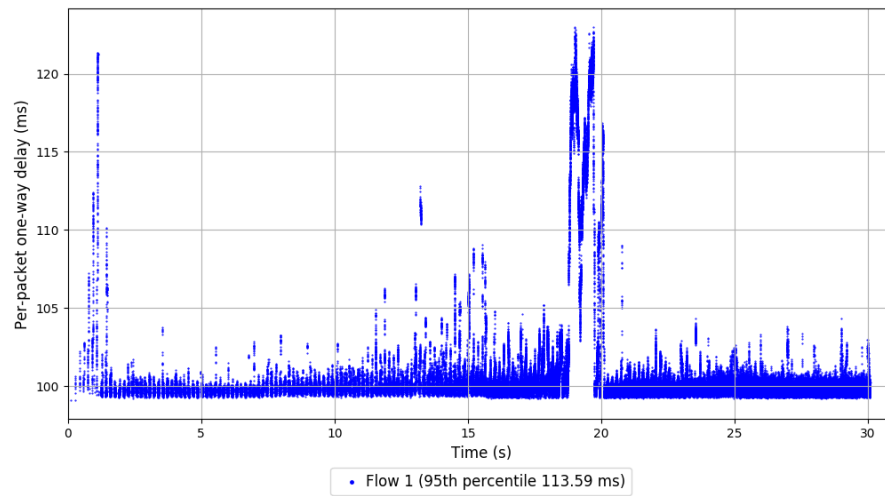
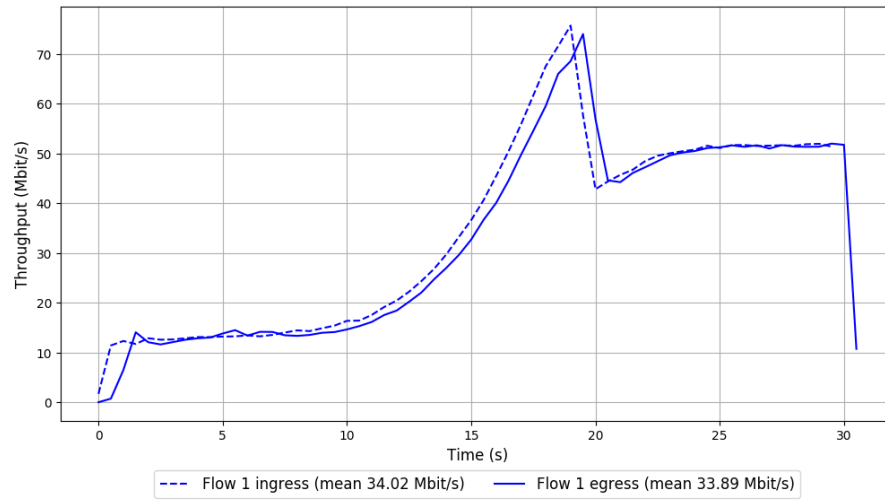
-- Flow 1:

Average throughput: 33.89 Mbit/s

95th percentile per-packet one-way delay: 113.594 ms

Loss rate: 0.39%

Run 8: Report of TCP Cubic — Data Link

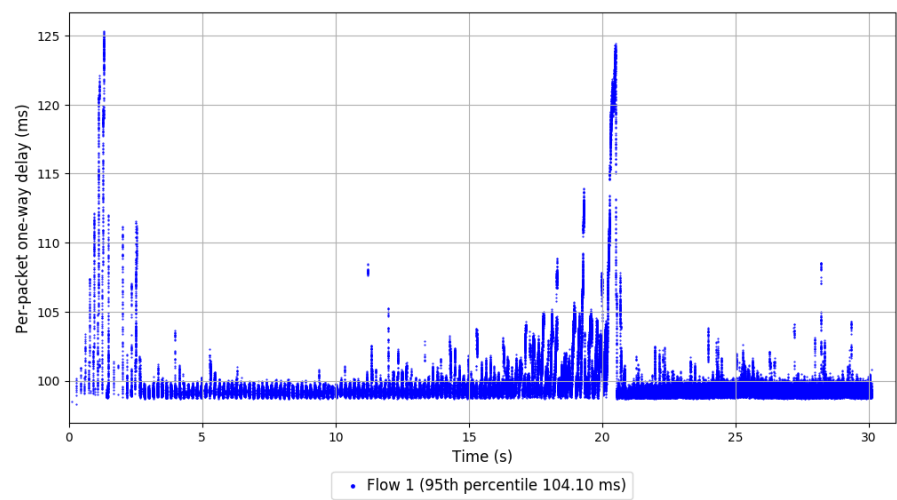
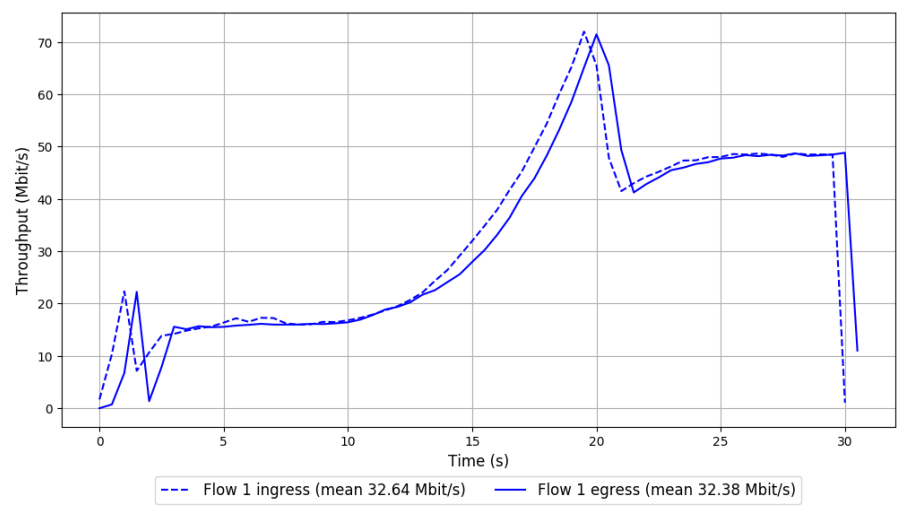


Run 9: Statistics of TCP Cubic

Start at: 2018-07-09 23:19:12
End at: 2018-07-09 23:19:42
Local clock offset: 1.758 ms
Remote clock offset: -0.174 ms

Below is generated by plot.py at 2018-07-09 23:49:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 32.38 Mbit/s
95th percentile per-packet one-way delay: 104.098 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 32.38 Mbit/s
95th percentile per-packet one-way delay: 104.098 ms
Loss rate: 0.81%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-07-09 23:41:35

End at: 2018-07-09 23:42:05

Local clock offset: 1.622 ms

Remote clock offset: -0.583 ms

Below is generated by plot.py at 2018-07-09 23:49:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.22 Mbit/s

95th percentile per-packet one-way delay: 109.830 ms

Loss rate: 0.49%

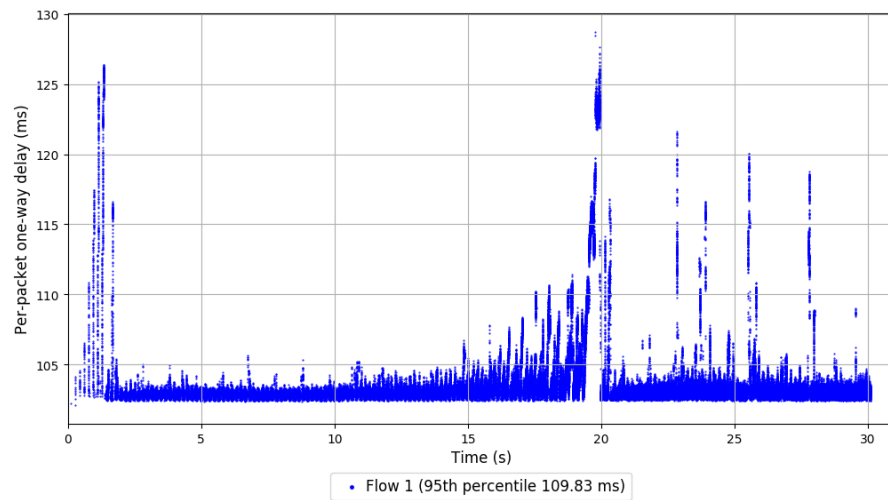
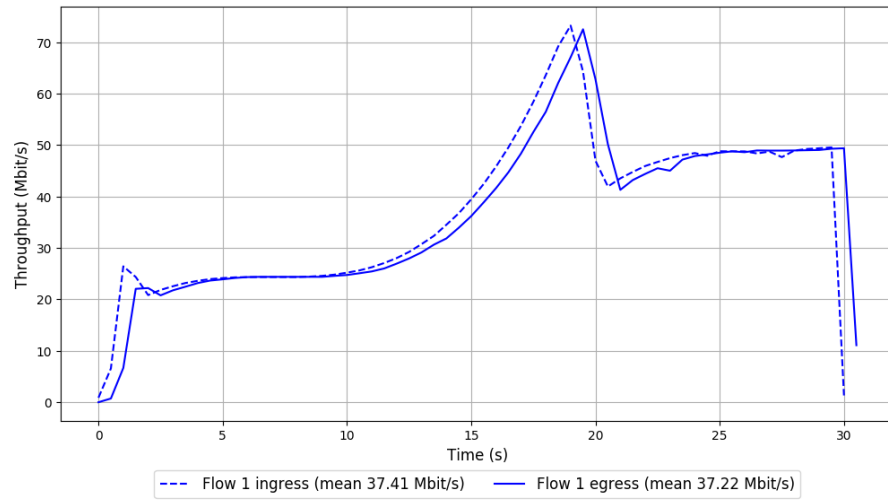
-- Flow 1:

Average throughput: 37.22 Mbit/s

95th percentile per-packet one-way delay: 109.830 ms

Loss rate: 0.49%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-07-09 20:10:35

End at: 2018-07-09 20:11:05

Local clock offset: 1.433 ms

Remote clock offset: 0.202 ms

Below is generated by plot.py at 2018-07-09 23:50:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.46 Mbit/s

95th percentile per-packet one-way delay: 116.990 ms

Loss rate: 28.20%

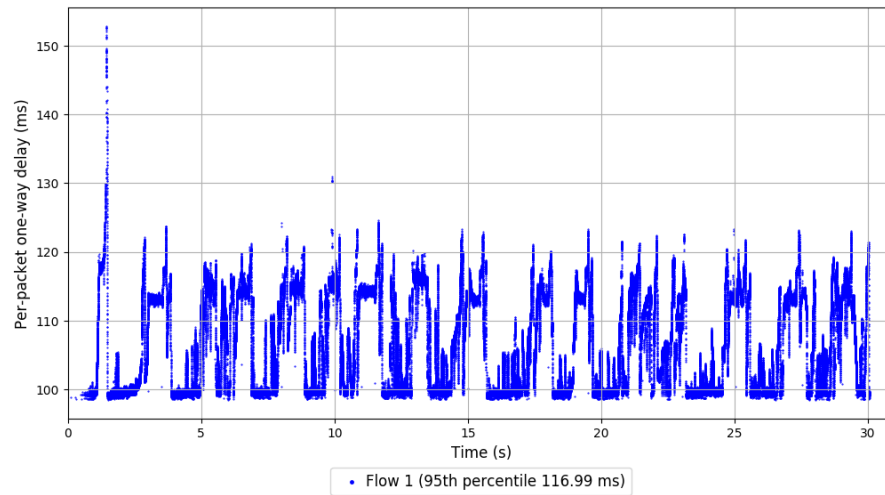
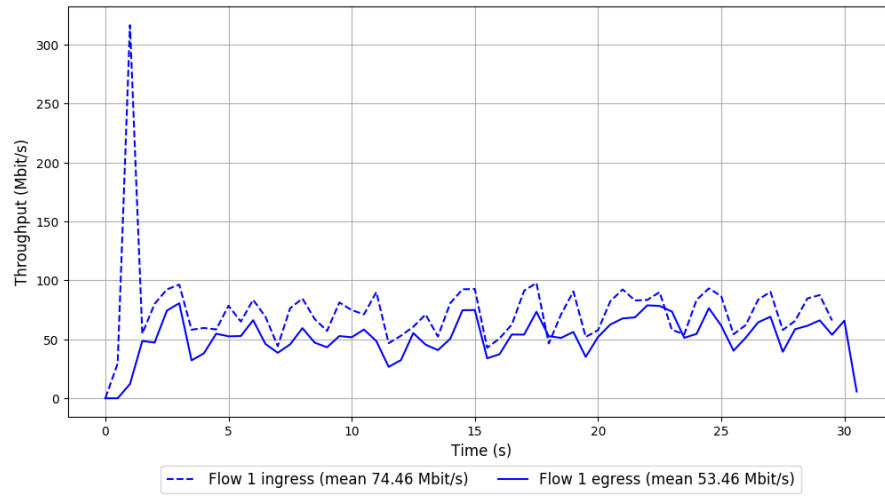
-- Flow 1:

Average throughput: 53.46 Mbit/s

95th percentile per-packet one-way delay: 116.990 ms

Loss rate: 28.20%

Run 1: Report of FillP — Data Link

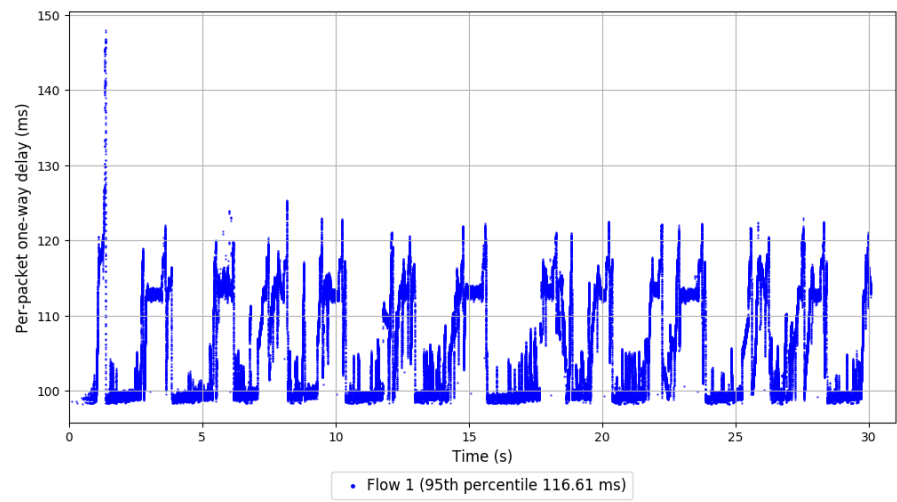
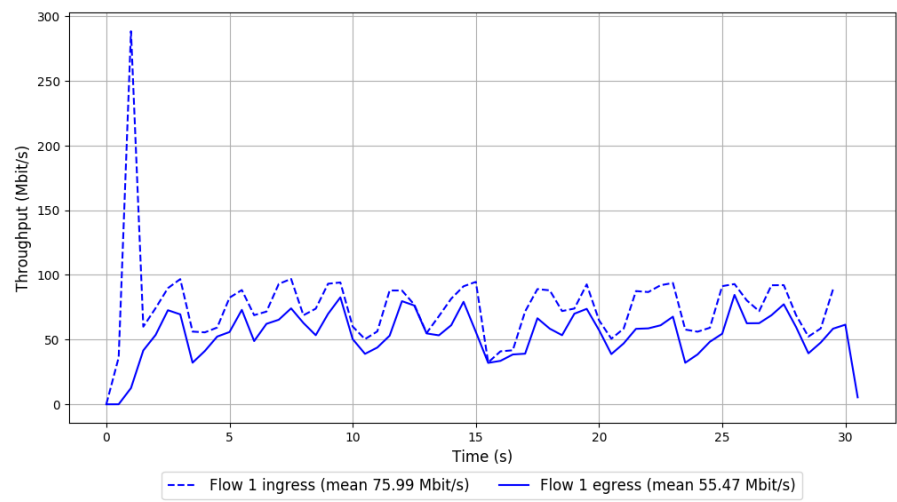


Run 2: Statistics of FillP

Start at: 2018-07-09 20:32:58
End at: 2018-07-09 20:33:28
Local clock offset: 1.436 ms
Remote clock offset: -0.851 ms

Below is generated by plot.py at 2018-07-09 23:50:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 55.47 Mbit/s
95th percentile per-packet one-way delay: 116.605 ms
Loss rate: 27.01%
-- Flow 1:
Average throughput: 55.47 Mbit/s
95th percentile per-packet one-way delay: 116.605 ms
Loss rate: 27.01%

Run 2: Report of FillP — Data Link

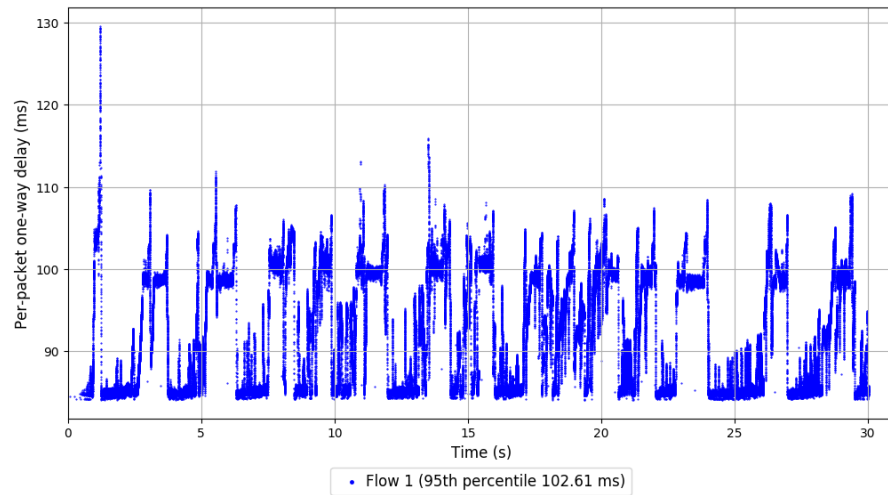
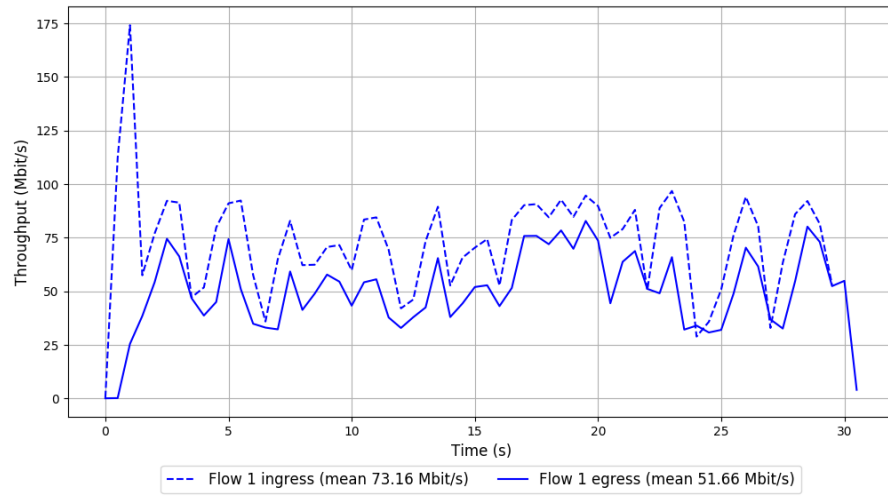


Run 3: Statistics of FillP

Start at: 2018-07-09 21:00:38
End at: 2018-07-09 21:01:08
Local clock offset: 1.087 ms
Remote clock offset: -0.845 ms

Below is generated by plot.py at 2018-07-09 23:50:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 51.66 Mbit/s
95th percentile per-packet one-way delay: 102.611 ms
Loss rate: 29.38%
-- Flow 1:
Average throughput: 51.66 Mbit/s
95th percentile per-packet one-way delay: 102.611 ms
Loss rate: 29.38%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-07-09 21:23:03

End at: 2018-07-09 21:23:33

Local clock offset: 1.174 ms

Remote clock offset: -0.66 ms

Below is generated by plot.py at 2018-07-09 23:50:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.86 Mbit/s

95th percentile per-packet one-way delay: 116.598 ms

Loss rate: 28.12%

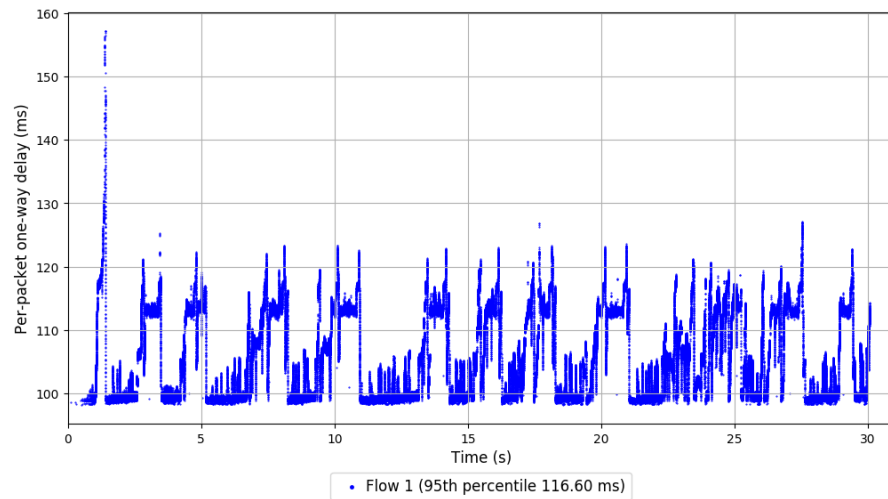
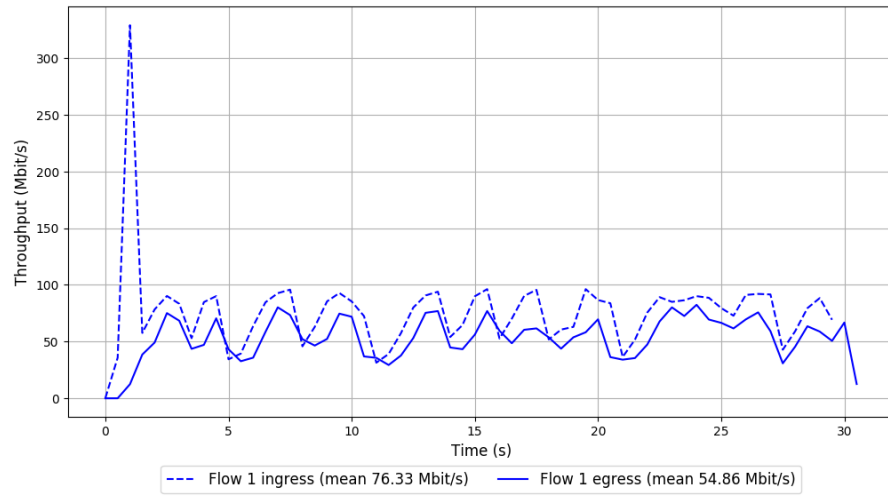
-- Flow 1:

Average throughput: 54.86 Mbit/s

95th percentile per-packet one-way delay: 116.598 ms

Loss rate: 28.12%

Run 4: Report of FillP — Data Link

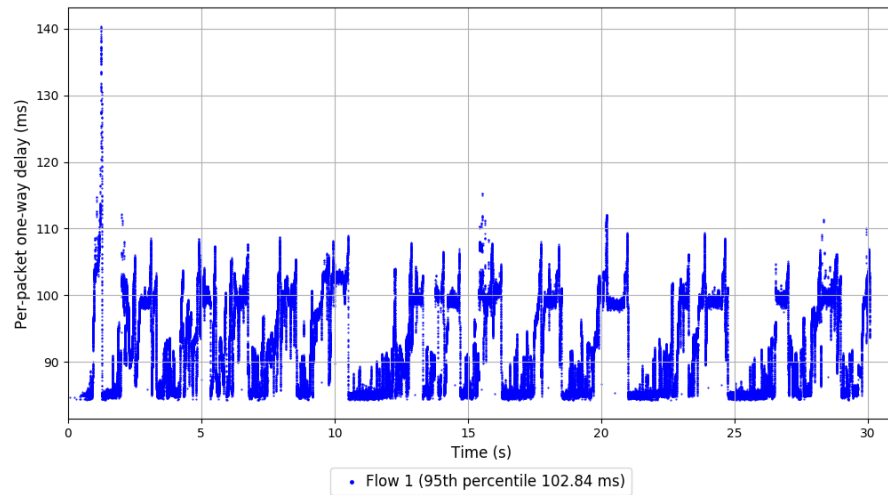
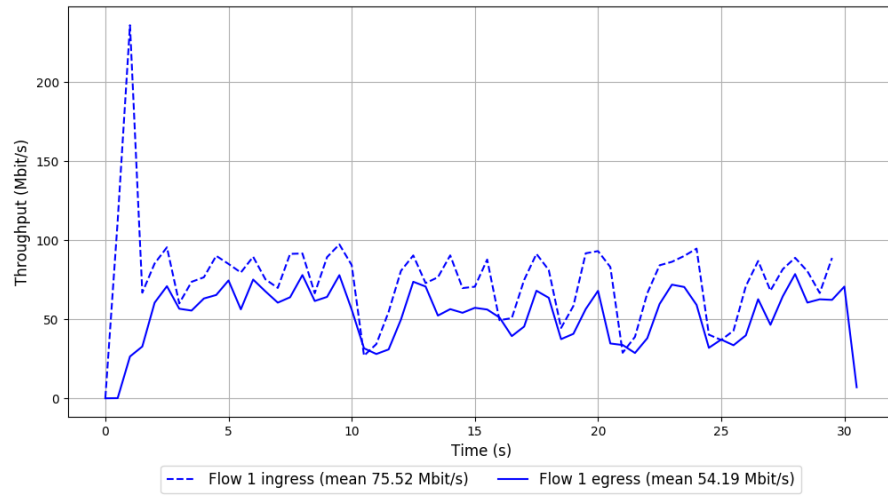


Run 5: Statistics of FillP

Start at: 2018-07-09 21:45:24
End at: 2018-07-09 21:45:54
Local clock offset: 1.534 ms
Remote clock offset: -0.145 ms

Below is generated by plot.py at 2018-07-09 23:50:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 54.19 Mbit/s
95th percentile per-packet one-way delay: 102.839 ms
Loss rate: 28.22%
-- Flow 1:
Average throughput: 54.19 Mbit/s
95th percentile per-packet one-way delay: 102.839 ms
Loss rate: 28.22%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-09 22:07:59

End at: 2018-07-09 22:08:29

Local clock offset: 1.416 ms

Remote clock offset: 0.705 ms

Below is generated by plot.py at 2018-07-09 23:50:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.49 Mbit/s

95th percentile per-packet one-way delay: 116.585 ms

Loss rate: 28.70%

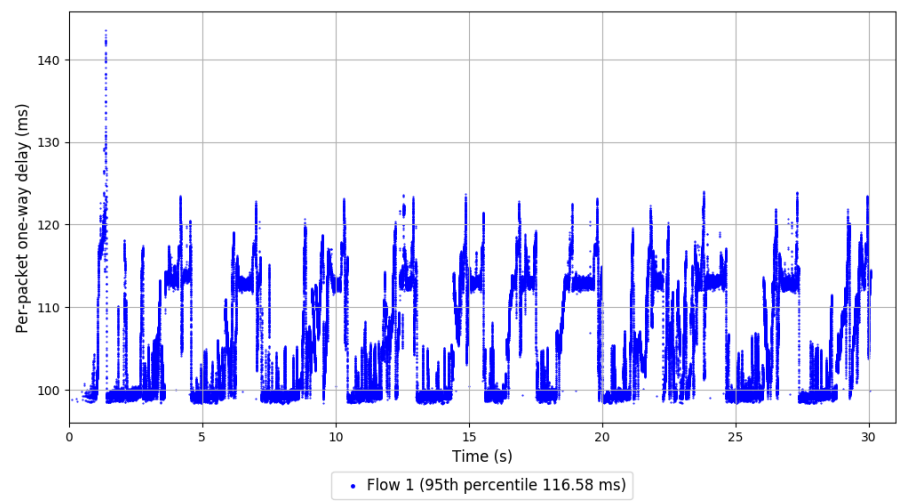
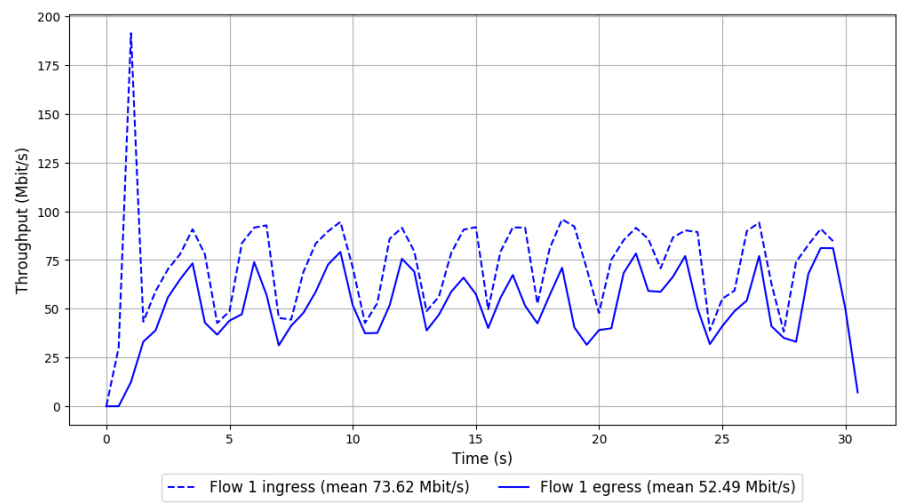
-- Flow 1:

Average throughput: 52.49 Mbit/s

95th percentile per-packet one-way delay: 116.585 ms

Loss rate: 28.70%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-07-09 22:30:26

End at: 2018-07-09 22:30:56

Local clock offset: 1.678 ms

Remote clock offset: 1.16 ms

Below is generated by plot.py at 2018-07-09 23:50:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.26 Mbit/s

95th percentile per-packet one-way delay: 102.365 ms

Loss rate: 17.52%

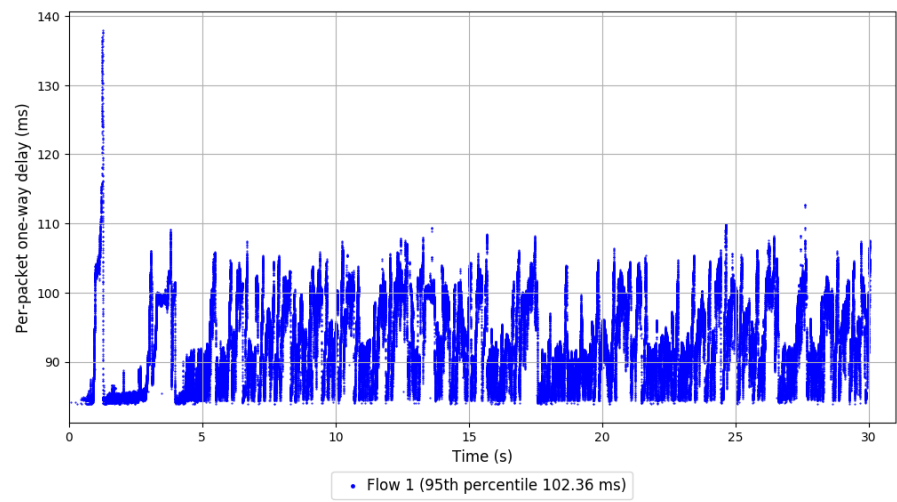
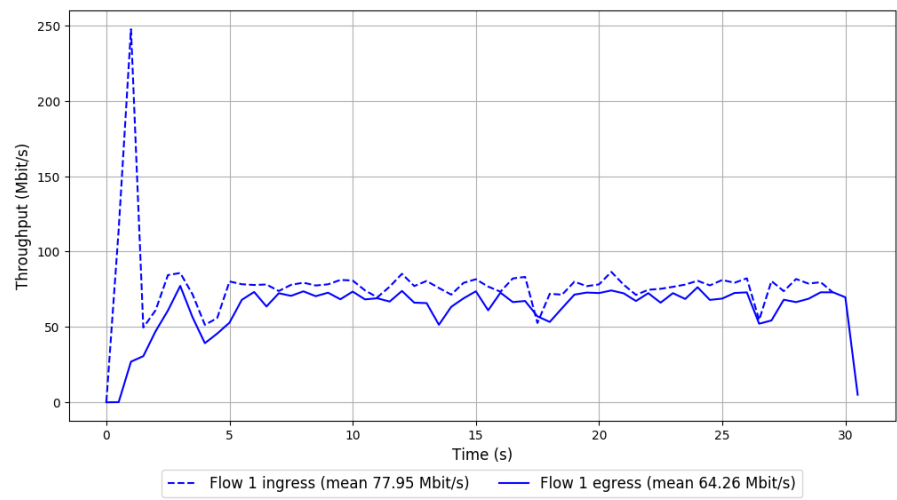
-- Flow 1:

Average throughput: 64.26 Mbit/s

95th percentile per-packet one-way delay: 102.365 ms

Loss rate: 17.52%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-07-09 22:52:54

End at: 2018-07-09 22:53:24

Local clock offset: 1.662 ms

Remote clock offset: 0.492 ms

Below is generated by plot.py at 2018-07-09 23:50:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.17 Mbit/s

95th percentile per-packet one-way delay: 116.908 ms

Loss rate: 29.46%

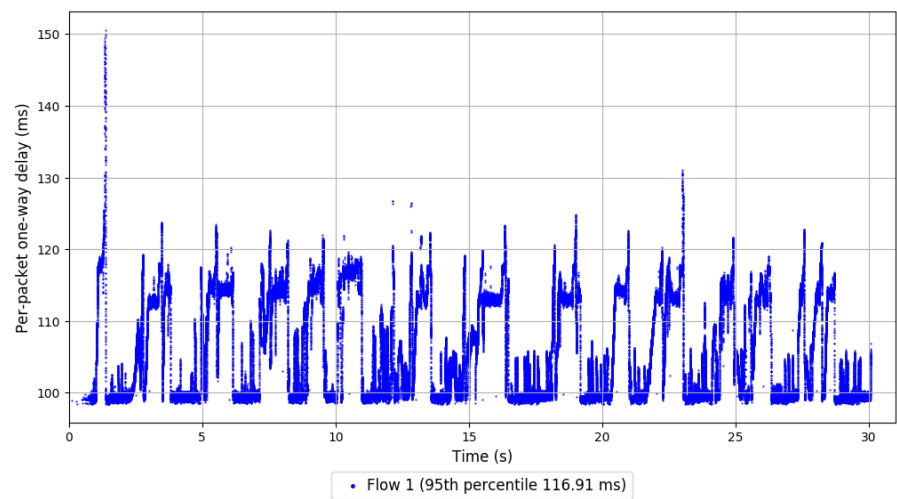
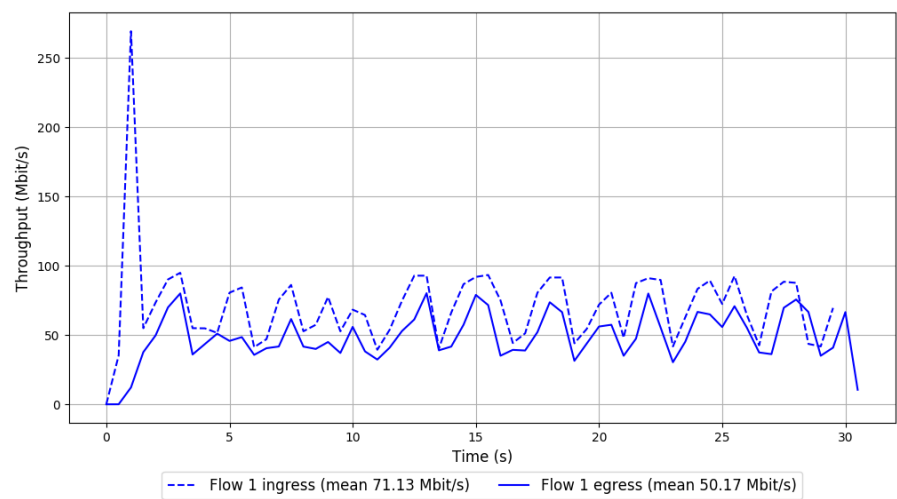
-- Flow 1:

Average throughput: 50.17 Mbit/s

95th percentile per-packet one-way delay: 116.908 ms

Loss rate: 29.46%

Run 8: Report of FillP — Data Link

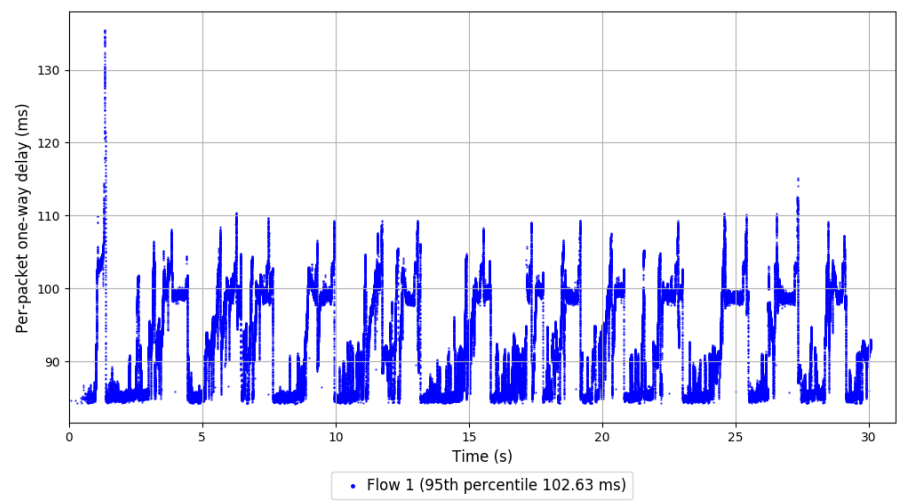
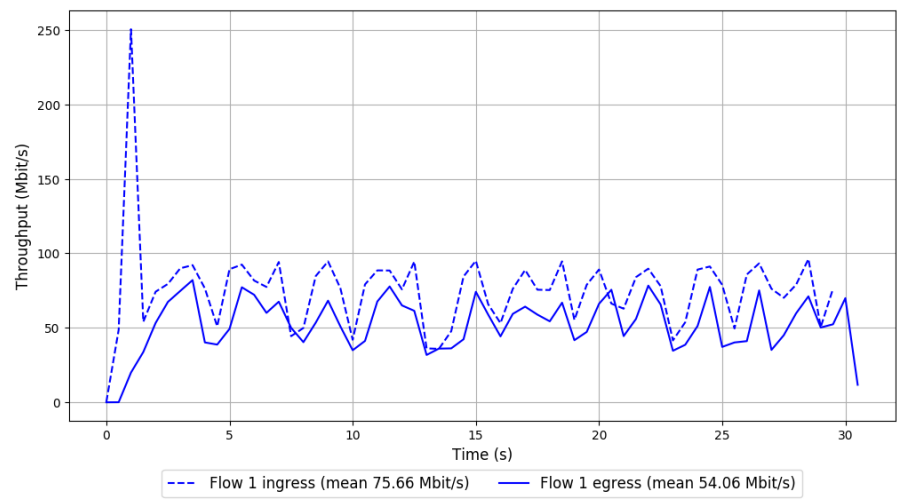


Run 9: Statistics of FillP

Start at: 2018-07-09 23:15:18
End at: 2018-07-09 23:15:48
Local clock offset: 1.605 ms
Remote clock offset: -0.127 ms

Below is generated by plot.py at 2018-07-09 23:51:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 54.06 Mbit/s
95th percentile per-packet one-way delay: 102.633 ms
Loss rate: 28.54%
-- Flow 1:
Average throughput: 54.06 Mbit/s
95th percentile per-packet one-way delay: 102.633 ms
Loss rate: 28.54%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-07-09 23:37:40

End at: 2018-07-09 23:38:10

Local clock offset: 1.588 ms

Remote clock offset: -0.403 ms

Below is generated by plot.py at 2018-07-09 23:51:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.93 Mbit/s

95th percentile per-packet one-way delay: 102.778 ms

Loss rate: 31.10%

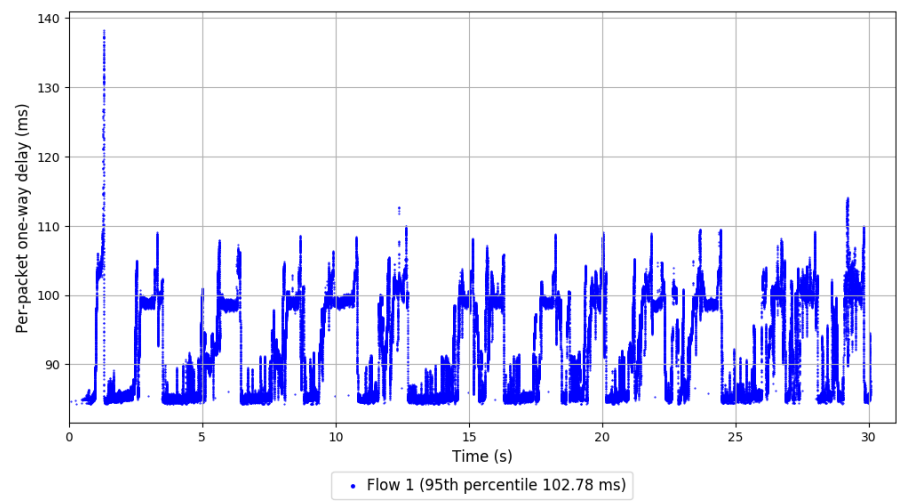
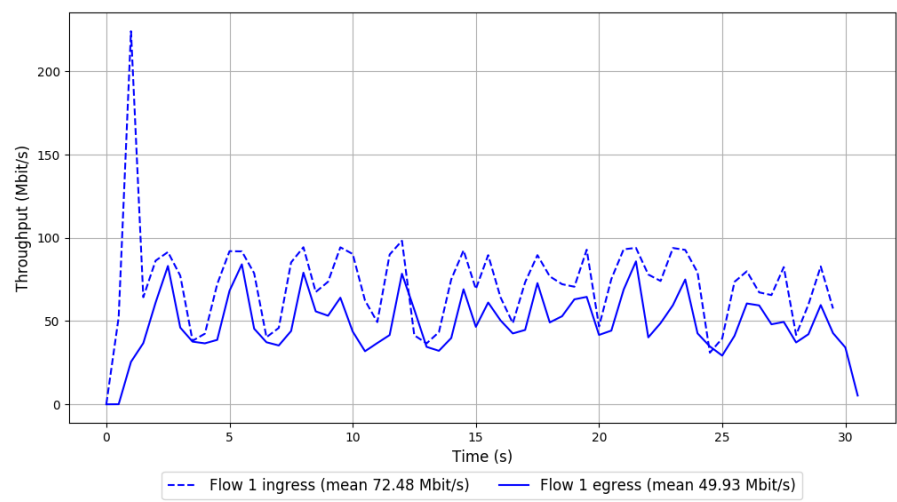
-- Flow 1:

Average throughput: 49.93 Mbit/s

95th percentile per-packet one-way delay: 102.778 ms

Loss rate: 31.10%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-07-09 20:00:03

End at: 2018-07-09 20:00:33

Local clock offset: 1.224 ms

Remote clock offset: 0.147 ms

Below is generated by plot.py at 2018-07-09 23:51:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.22 Mbit/s

95th percentile per-packet one-way delay: 102.795 ms

Loss rate: 37.56%

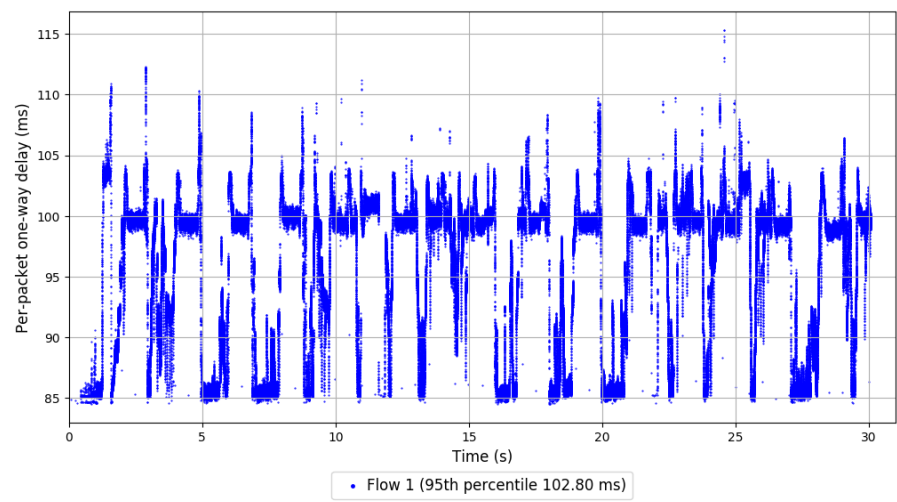
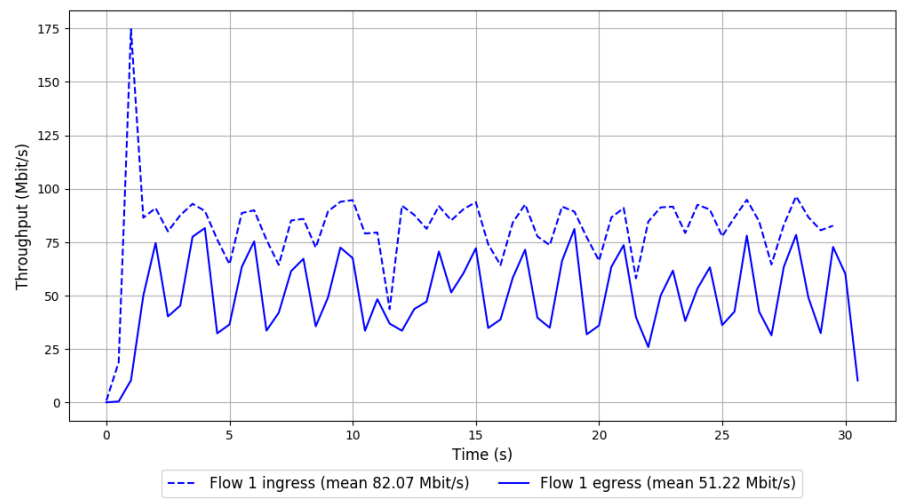
-- Flow 1:

Average throughput: 51.22 Mbit/s

95th percentile per-packet one-way delay: 102.795 ms

Loss rate: 37.56%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-07-09 20:22:25

End at: 2018-07-09 20:22:55

Local clock offset: 1.517 ms

Remote clock offset: -0.502 ms

Below is generated by plot.py at 2018-07-09 23:51:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.11 Mbit/s

95th percentile per-packet one-way delay: 117.393 ms

Loss rate: 38.25%

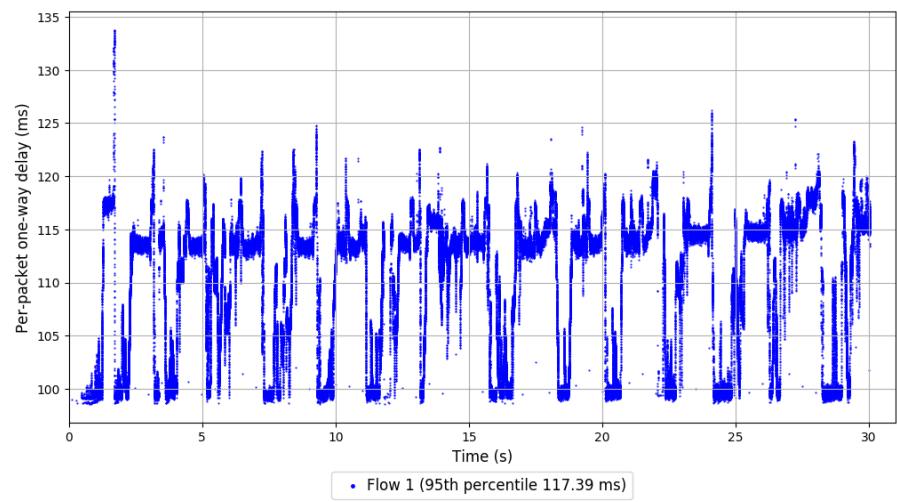
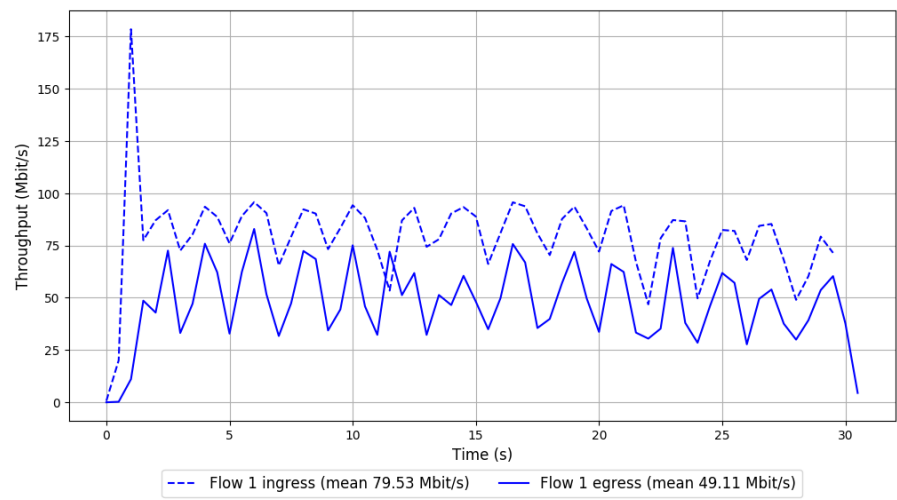
-- Flow 1:

Average throughput: 49.11 Mbit/s

95th percentile per-packet one-way delay: 117.393 ms

Loss rate: 38.25%

Run 2: Report of FillP-Sheep — Data Link

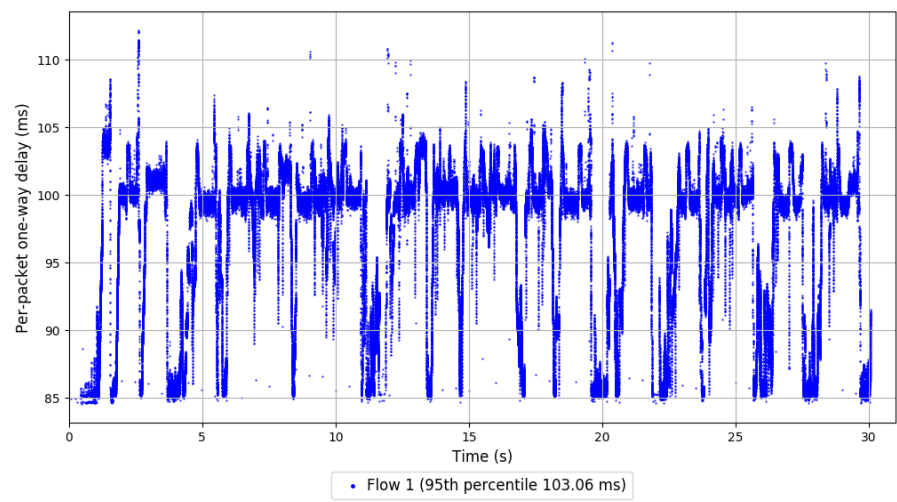
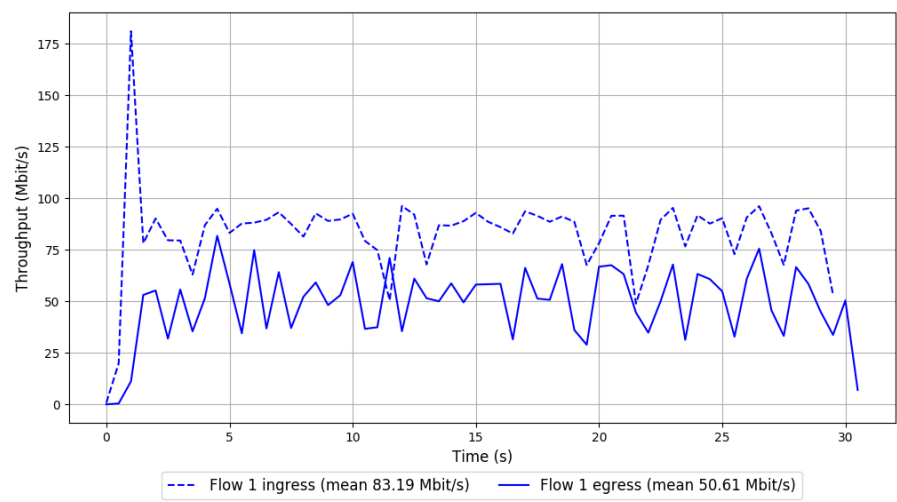


Run 3: Statistics of FillP-Sheep

Start at: 2018-07-09 20:50:03
End at: 2018-07-09 20:50:33
Local clock offset: 0.816 ms
Remote clock offset: -1.028 ms

Below is generated by plot.py at 2018-07-09 23:51:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.61 Mbit/s
95th percentile per-packet one-way delay: 103.063 ms
Loss rate: 39.14%
-- Flow 1:
Average throughput: 50.61 Mbit/s
95th percentile per-packet one-way delay: 103.063 ms
Loss rate: 39.14%

Run 3: Report of FillP-Sheep — Data Link

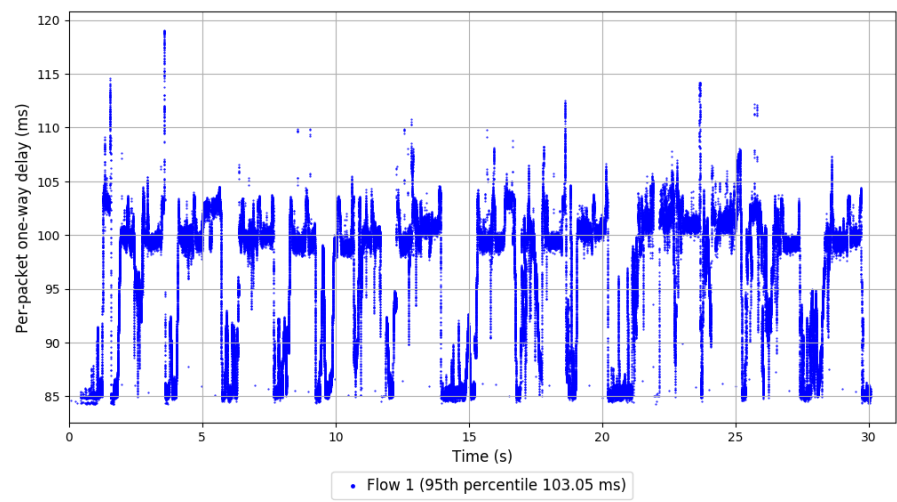
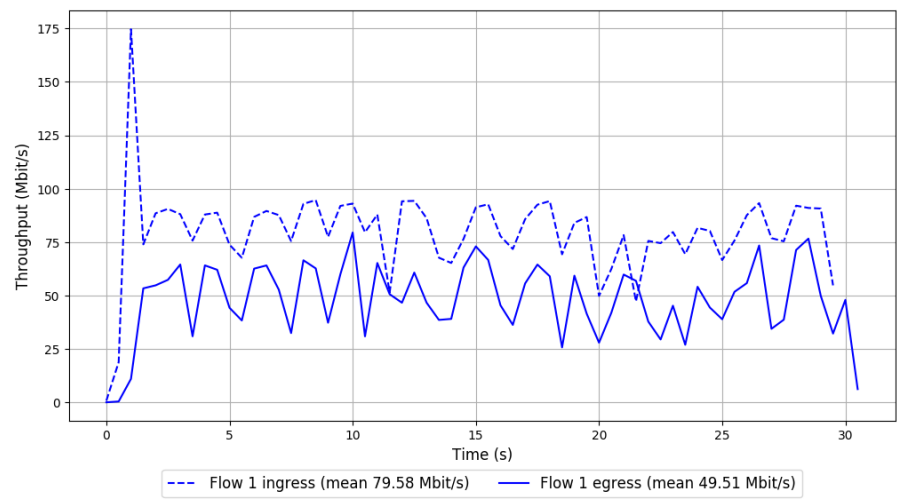


Run 4: Statistics of FillP-Sheep

Start at: 2018-07-09 21:12:29
End at: 2018-07-09 21:12:59
Local clock offset: 1.072 ms
Remote clock offset: -0.723 ms

Below is generated by plot.py at 2018-07-09 23:51:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 49.51 Mbit/s
95th percentile per-packet one-way delay: 103.048 ms
Loss rate: 37.78%
-- Flow 1:
Average throughput: 49.51 Mbit/s
95th percentile per-packet one-way delay: 103.048 ms
Loss rate: 37.78%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-07-09 21:34:50

End at: 2018-07-09 21:35:20

Local clock offset: 1.323 ms

Remote clock offset: -0.297 ms

Below is generated by plot.py at 2018-07-09 23:51:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.00 Mbit/s

95th percentile per-packet one-way delay: 116.752 ms

Loss rate: 37.81%

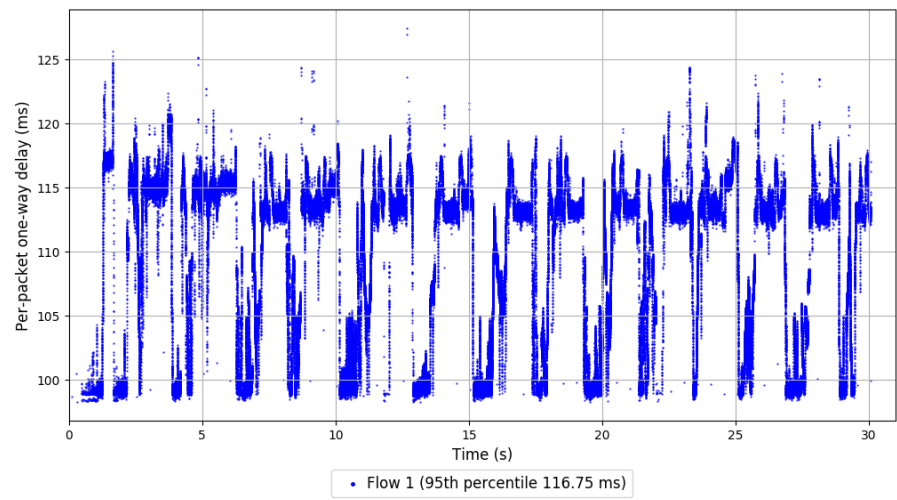
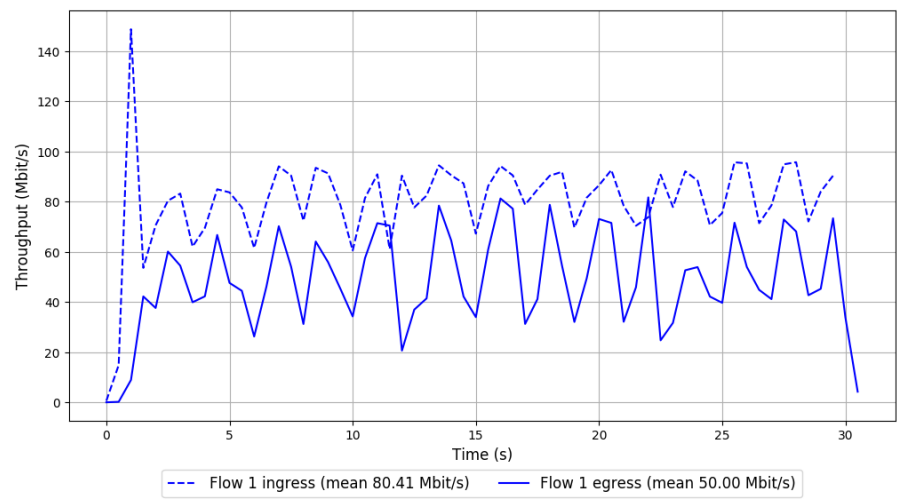
-- Flow 1:

Average throughput: 50.00 Mbit/s

95th percentile per-packet one-way delay: 116.752 ms

Loss rate: 37.81%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-07-09 21:57:12

End at: 2018-07-09 21:57:42

Local clock offset: 1.211 ms

Remote clock offset: 0.049 ms

Below is generated by plot.py at 2018-07-09 23:51:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.63 Mbit/s

95th percentile per-packet one-way delay: 102.545 ms

Loss rate: 36.79%

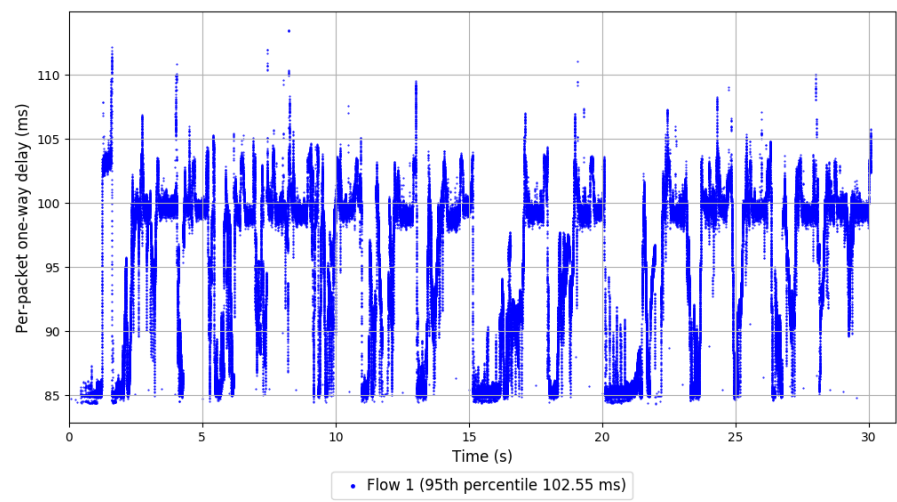
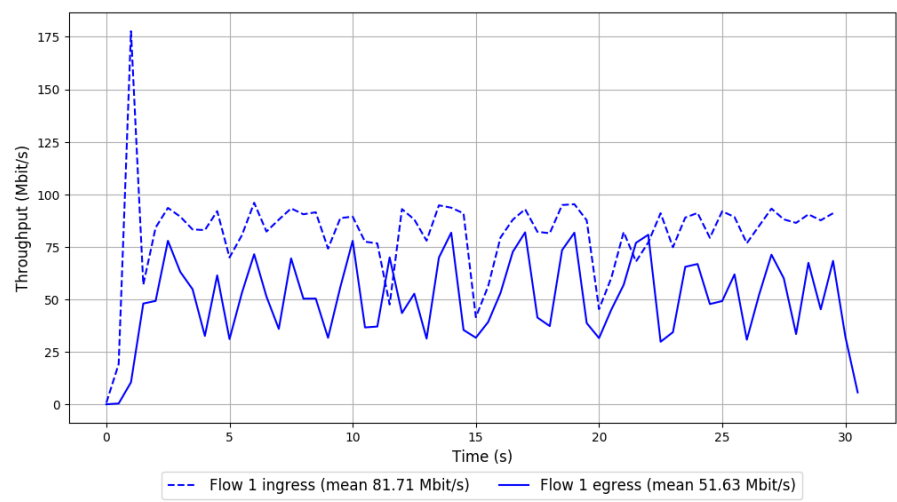
-- Flow 1:

Average throughput: 51.63 Mbit/s

95th percentile per-packet one-way delay: 102.545 ms

Loss rate: 36.79%

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-07-09 22:19:50

End at: 2018-07-09 22:20:20

Local clock offset: 1.444 ms

Remote clock offset: 0.914 ms

Below is generated by plot.py at 2018-07-09 23:52:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.52 Mbit/s

95th percentile per-packet one-way delay: 102.905 ms

Loss rate: 37.74%

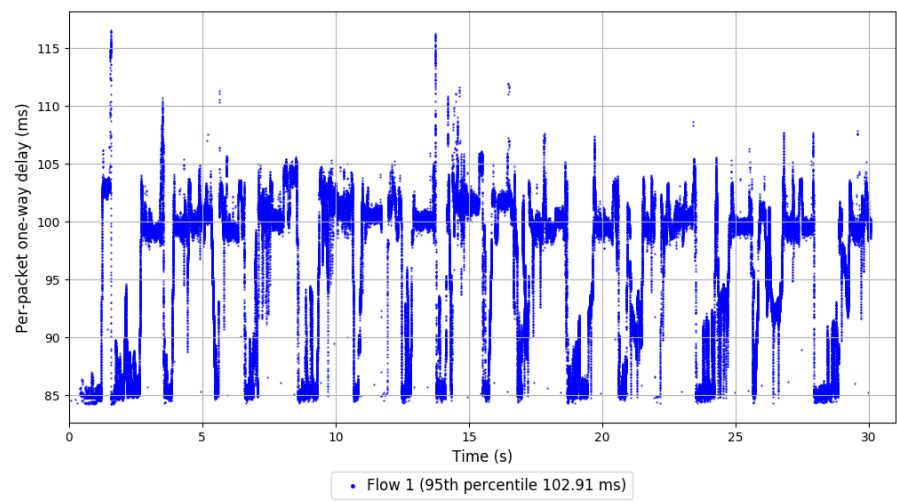
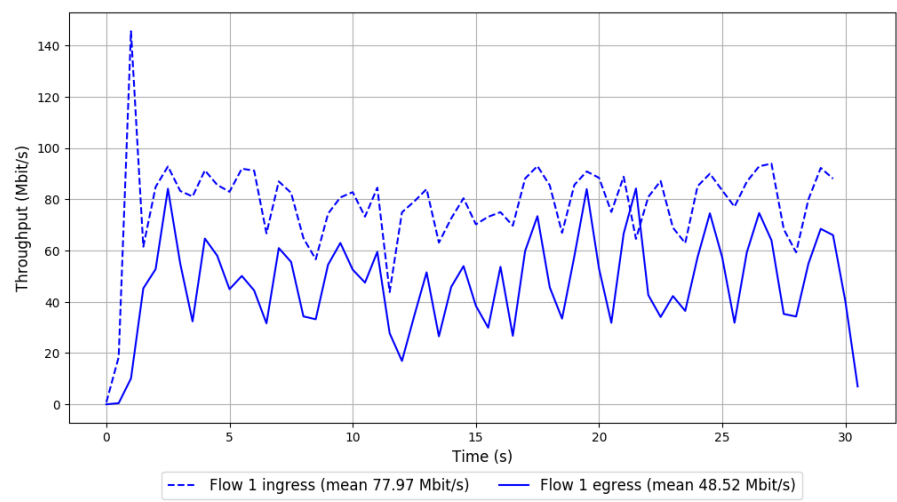
-- Flow 1:

Average throughput: 48.52 Mbit/s

95th percentile per-packet one-way delay: 102.905 ms

Loss rate: 37.74%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-07-09 22:42:17

End at: 2018-07-09 22:42:47

Local clock offset: 1.667 ms

Remote clock offset: 0.575 ms

Below is generated by plot.py at 2018-07-09 23:52:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.94 Mbit/s

95th percentile per-packet one-way delay: 116.483 ms

Loss rate: 35.97%

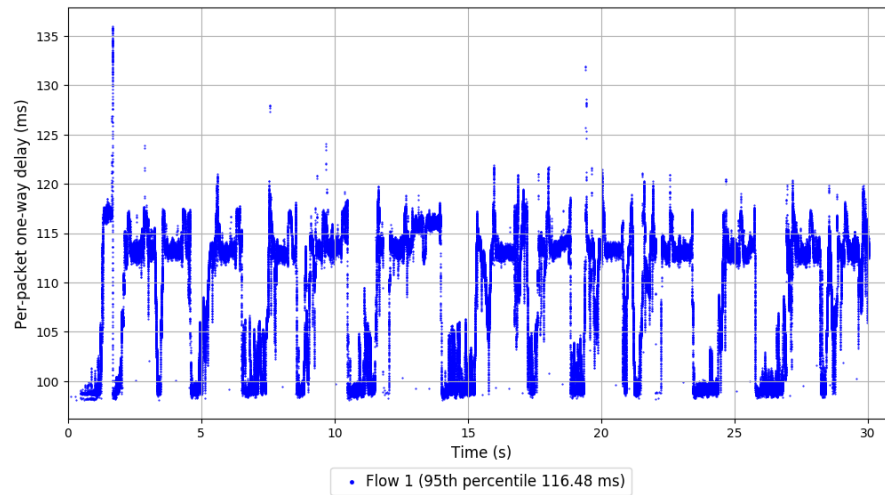
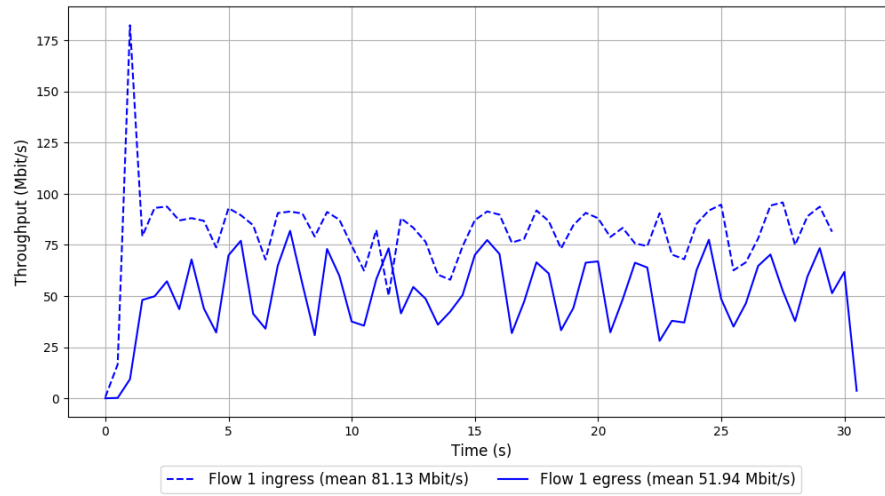
-- Flow 1:

Average throughput: 51.94 Mbit/s

95th percentile per-packet one-way delay: 116.483 ms

Loss rate: 35.97%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-09 23:04:45

End at: 2018-07-09 23:05:15

Local clock offset: 1.508 ms

Remote clock offset: 0.409 ms

Below is generated by plot.py at 2018-07-09 23:52:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.87 Mbit/s

95th percentile per-packet one-way delay: 102.893 ms

Loss rate: 35.17%

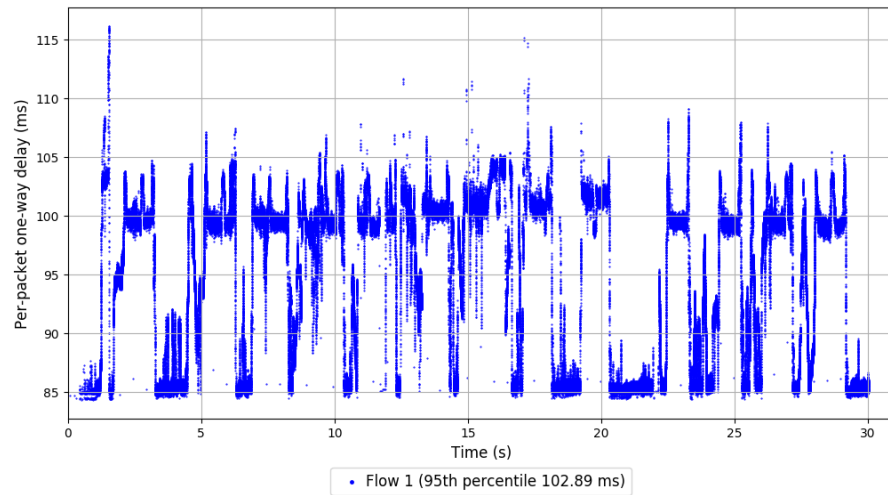
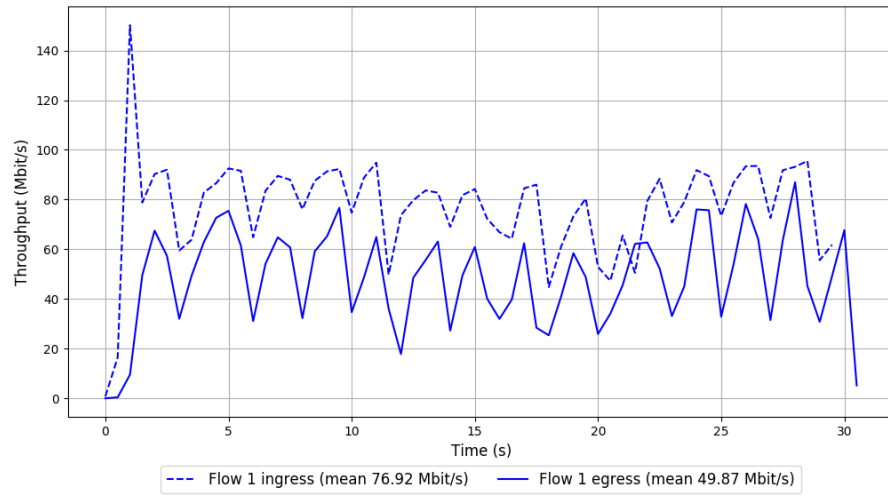
-- Flow 1:

Average throughput: 49.87 Mbit/s

95th percentile per-packet one-way delay: 102.893 ms

Loss rate: 35.17%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-07-09 23:27:05

End at: 2018-07-09 23:27:35

Local clock offset: 1.625 ms

Remote clock offset: -0.242 ms

Below is generated by plot.py at 2018-07-09 23:52:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.37 Mbit/s

95th percentile per-packet one-way delay: 102.510 ms

Loss rate: 35.60%

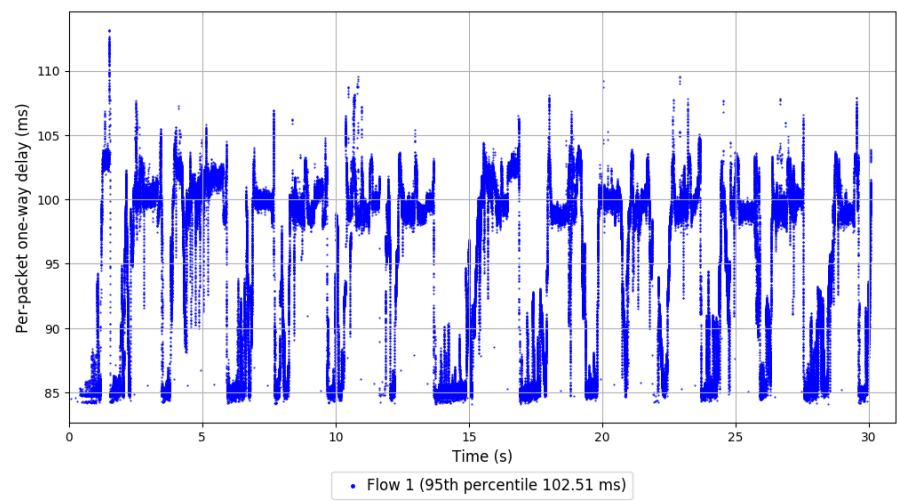
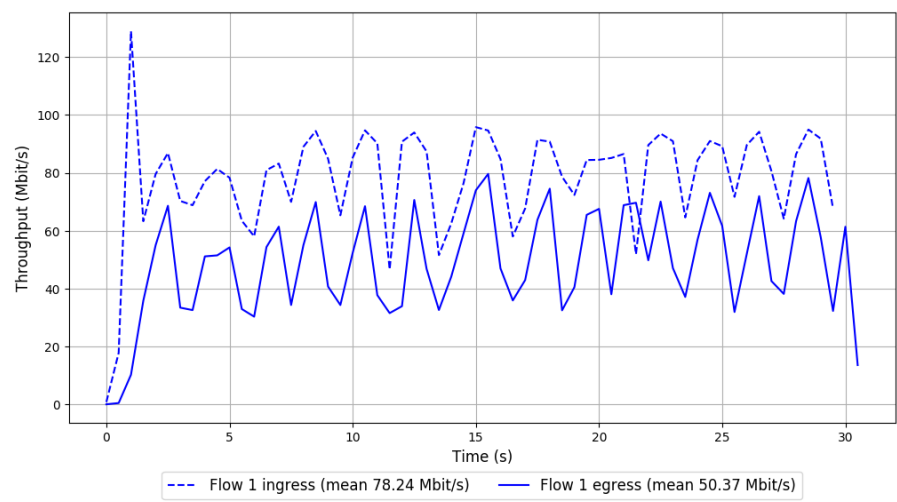
-- Flow 1:

Average throughput: 50.37 Mbit/s

95th percentile per-packet one-way delay: 102.510 ms

Loss rate: 35.60%

Run 10: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2018-07-09 20:18:26

End at: 2018-07-09 20:18:56

Local clock offset: 1.674 ms

Remote clock offset: -0.167 ms

Below is generated by plot.py at 2018-07-09 23:52:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.48 Mbit/s

95th percentile per-packet one-way delay: 107.049 ms

Loss rate: 3.14%

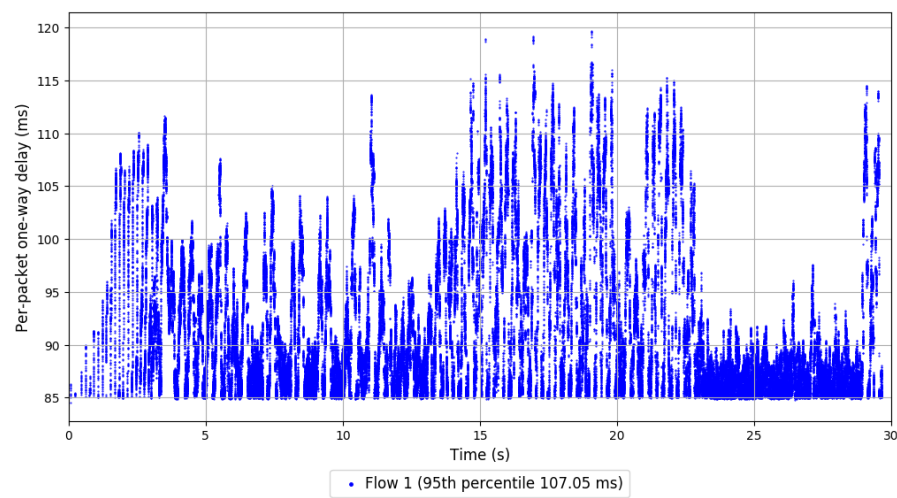
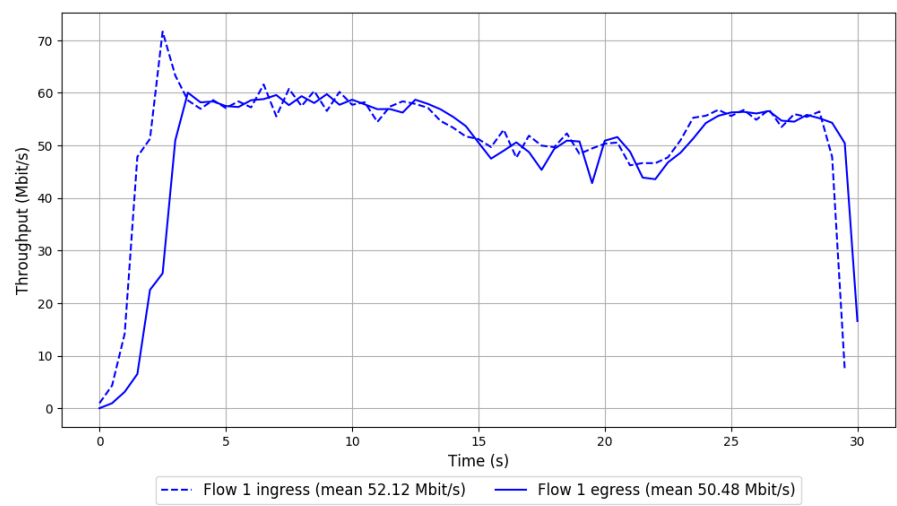
-- Flow 1:

Average throughput: 50.48 Mbit/s

95th percentile per-packet one-way delay: 107.049 ms

Loss rate: 3.14%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

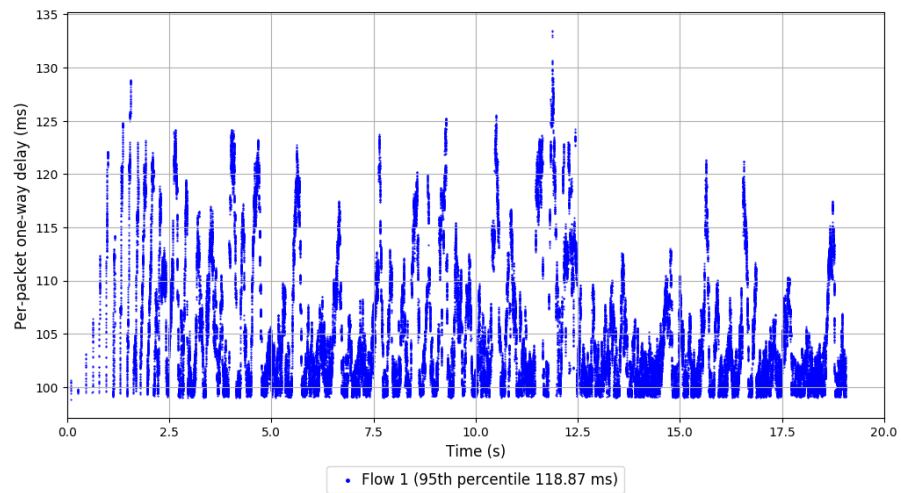
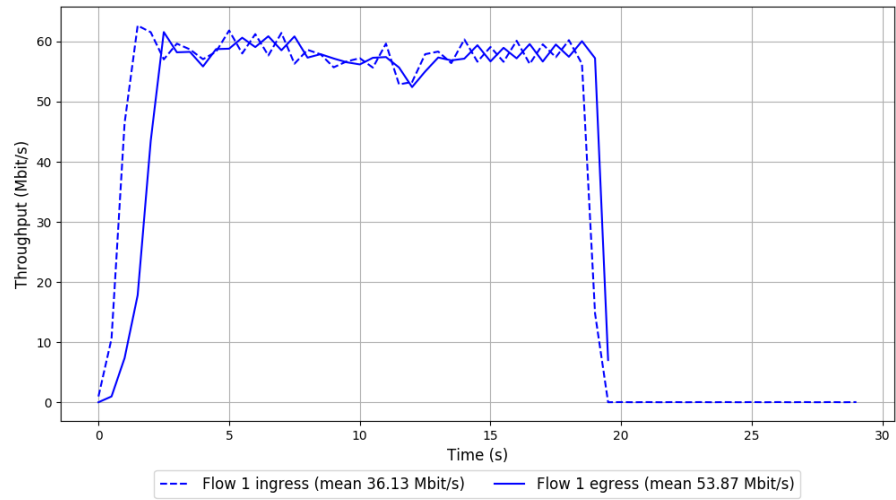
Start at: 2018-07-09 20:40:50

End at: 2018-07-09 20:41:20

Local clock offset: 1.15 ms

Remote clock offset: -0.967 ms

Run 2: Report of Indigo — Data Link

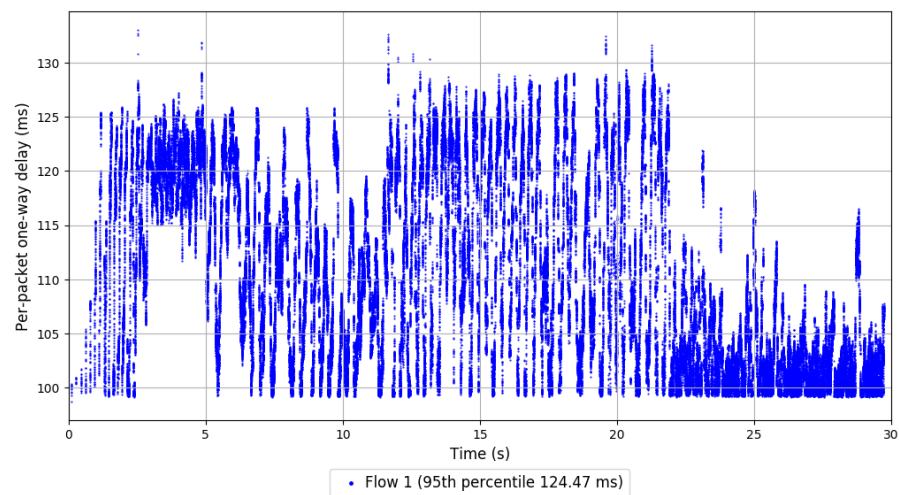
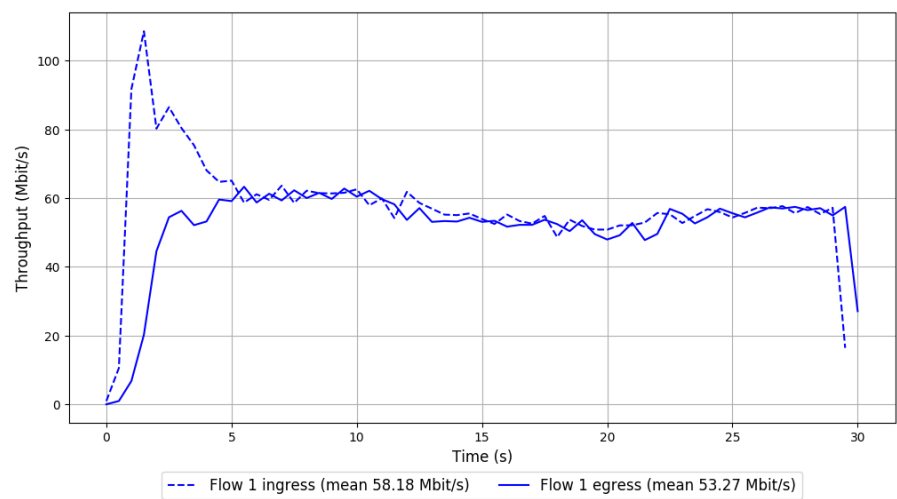


Run 3: Statistics of Indigo

Start at: 2018-07-09 21:08:31
End at: 2018-07-09 21:09:01
Local clock offset: 1.042 ms
Remote clock offset: -0.748 ms

Below is generated by plot.py at 2018-07-09 23:52:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 53.27 Mbit/s
95th percentile per-packet one-way delay: 124.472 ms
Loss rate: 8.43%
-- Flow 1:
Average throughput: 53.27 Mbit/s
95th percentile per-packet one-way delay: 124.472 ms
Loss rate: 8.43%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-07-09 21:30:53

End at: 2018-07-09 21:31:23

Local clock offset: 1.166 ms

Remote clock offset: -0.32 ms

Below is generated by plot.py at 2018-07-09 23:52:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.20 Mbit/s

95th percentile per-packet one-way delay: 103.807 ms

Loss rate: 1.59%

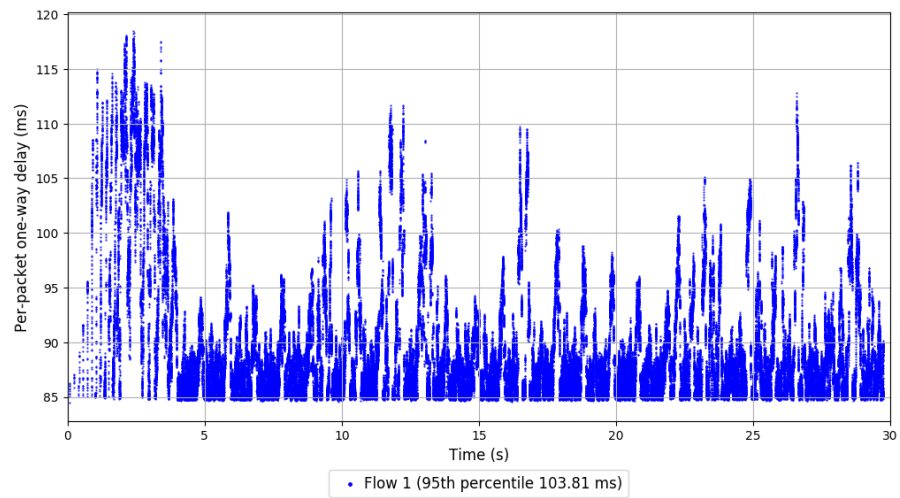
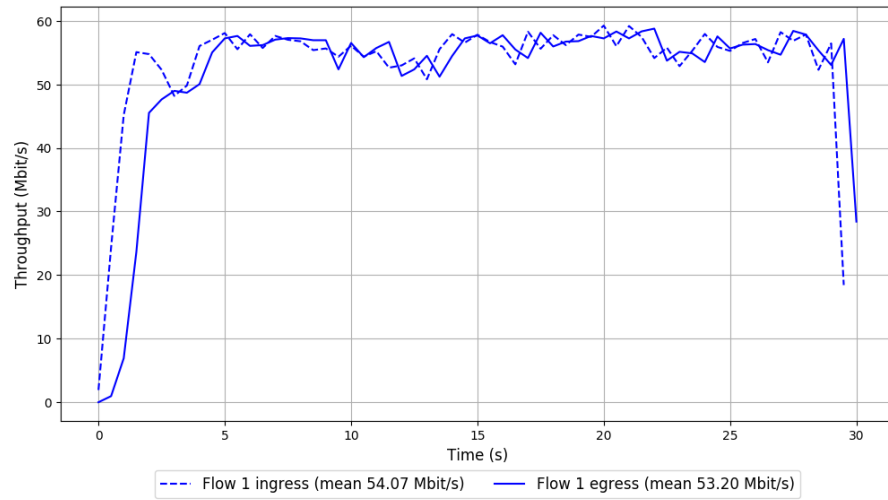
-- Flow 1:

Average throughput: 53.20 Mbit/s

95th percentile per-packet one-way delay: 103.807 ms

Loss rate: 1.59%

Run 4: Report of Indigo — Data Link

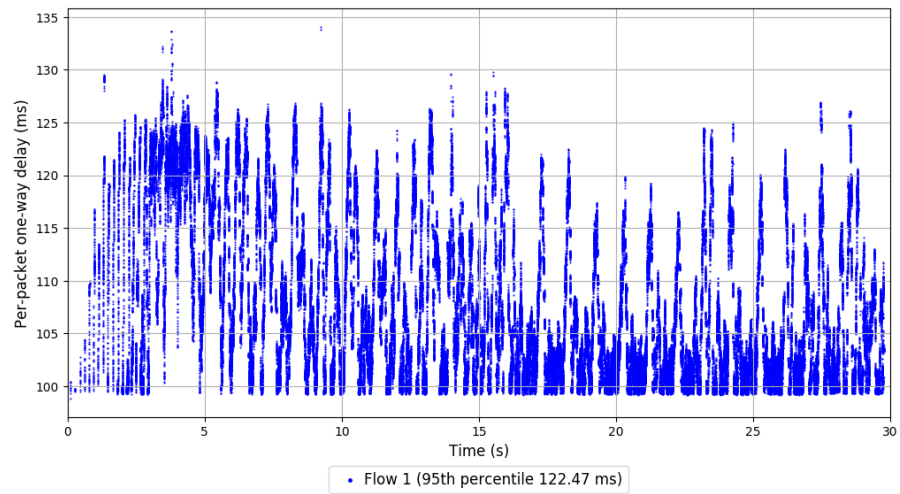
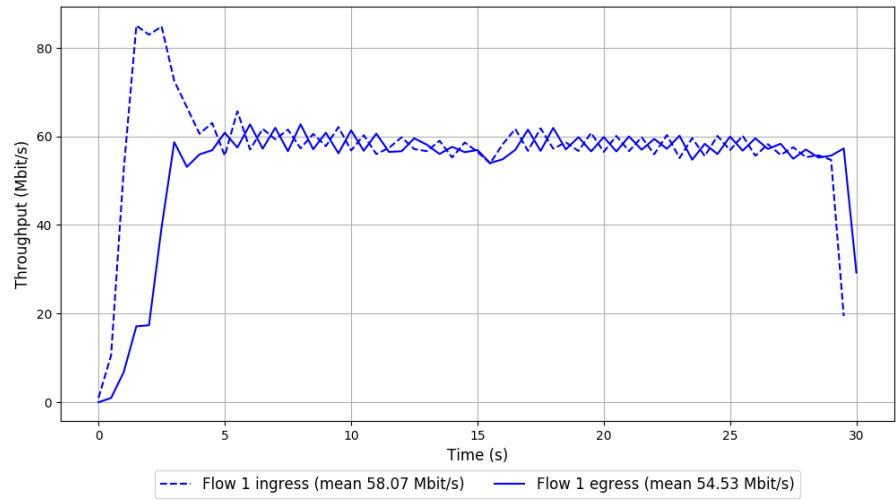


Run 5: Statistics of Indigo

Start at: 2018-07-09 21:53:17
End at: 2018-07-09 21:53:47
Local clock offset: 1.516 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2018-07-09 23:52:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 54.53 Mbit/s
95th percentile per-packet one-way delay: 122.468 ms
Loss rate: 6.09%
-- Flow 1:
Average throughput: 54.53 Mbit/s
95th percentile per-packet one-way delay: 122.468 ms
Loss rate: 6.09%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-07-09 22:15:51

End at: 2018-07-09 22:16:21

Local clock offset: 1.468 ms

Remote clock offset: 0.83 ms

Below is generated by plot.py at 2018-07-09 23:52:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.66 Mbit/s

95th percentile per-packet one-way delay: 109.168 ms

Loss rate: 6.36%

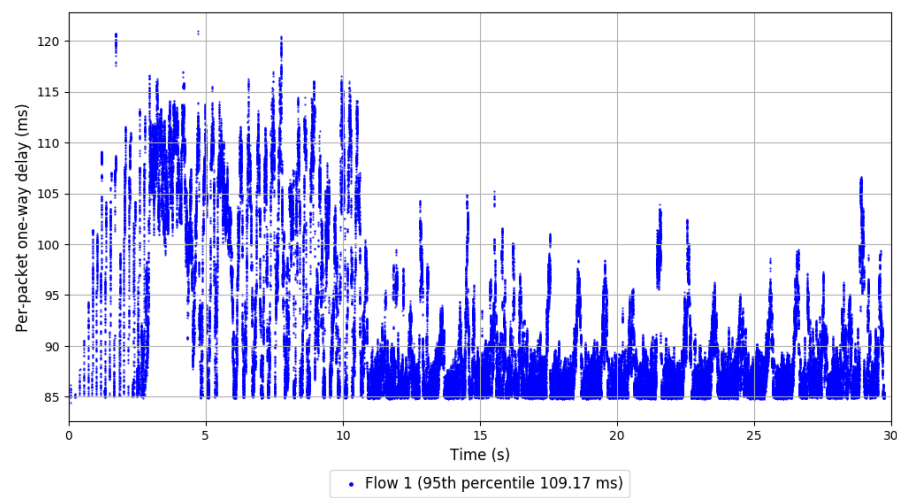
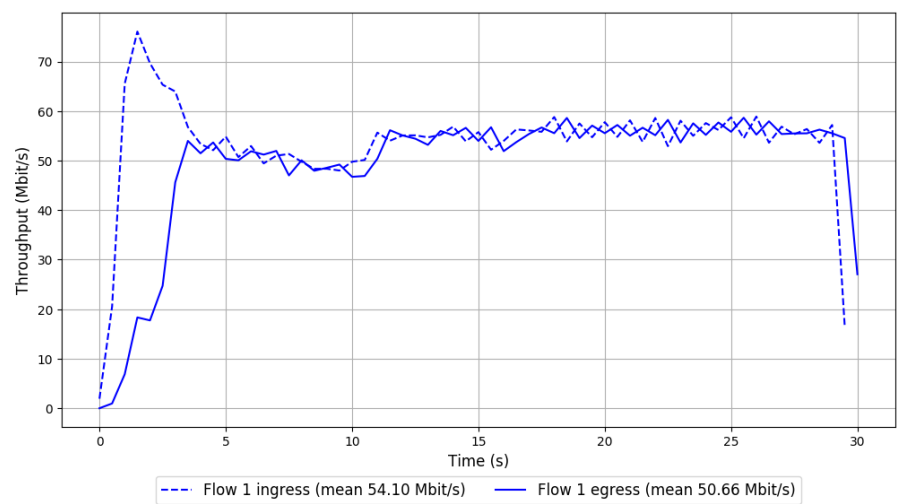
-- Flow 1:

Average throughput: 50.66 Mbit/s

95th percentile per-packet one-way delay: 109.168 ms

Loss rate: 6.36%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-07-09 22:38:18

End at: 2018-07-09 22:38:49

Local clock offset: 1.54 ms

Remote clock offset: 0.714 ms

Below is generated by plot.py at 2018-07-09 23:52:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.70 Mbit/s

95th percentile per-packet one-way delay: 103.185 ms

Loss rate: 1.29%

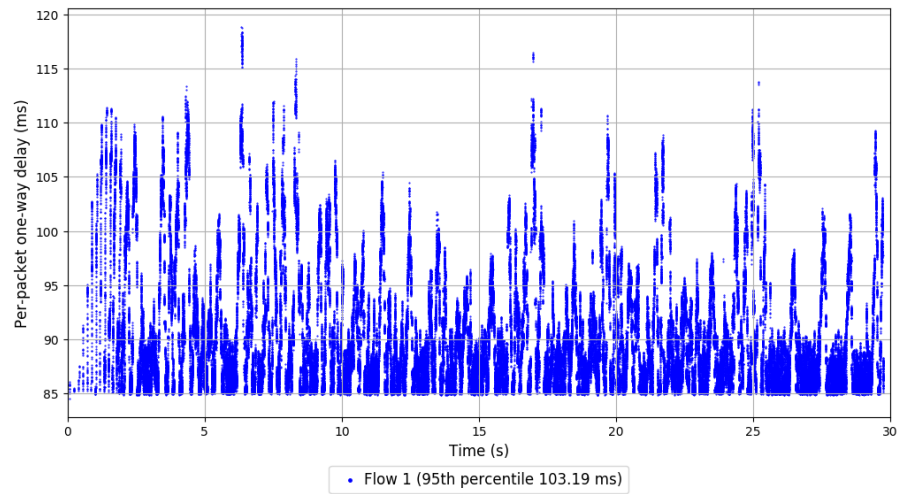
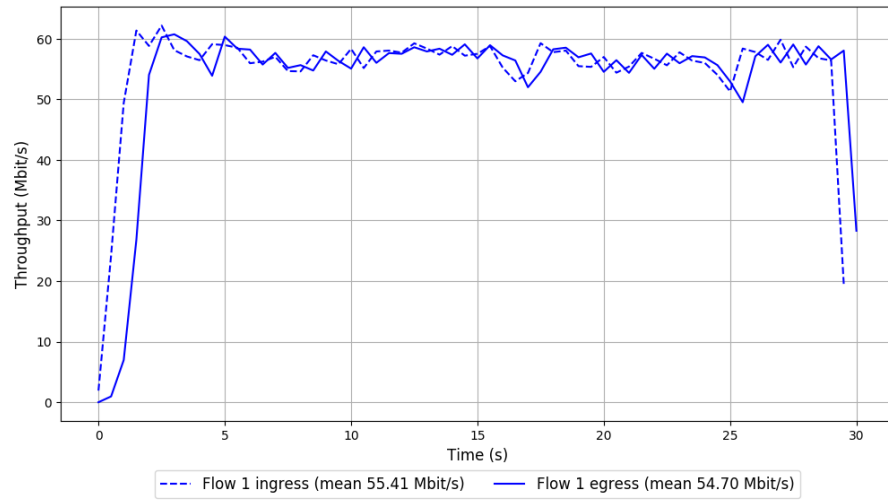
-- Flow 1:

Average throughput: 54.70 Mbit/s

95th percentile per-packet one-way delay: 103.185 ms

Loss rate: 1.29%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-07-09 23:00:46

End at: 2018-07-09 23:01:16

Local clock offset: 1.471 ms

Remote clock offset: 0.381 ms

Below is generated by plot.py at 2018-07-09 23:52:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.17 Mbit/s

95th percentile per-packet one-way delay: 107.457 ms

Loss rate: 1.85%

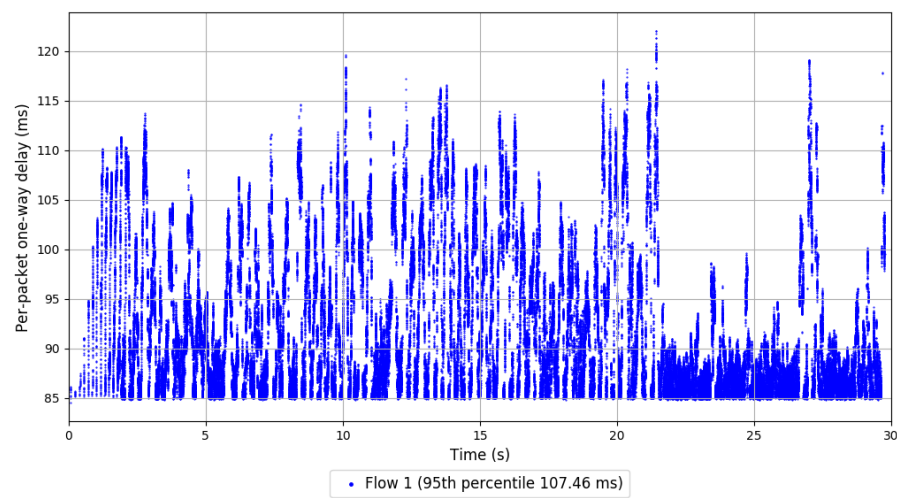
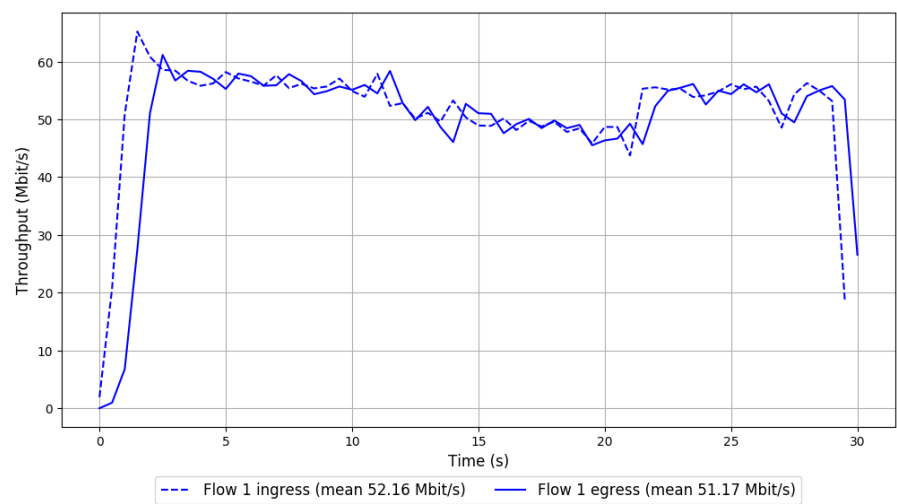
-- Flow 1:

Average throughput: 51.17 Mbit/s

95th percentile per-packet one-way delay: 107.457 ms

Loss rate: 1.85%

Run 8: Report of Indigo — Data Link

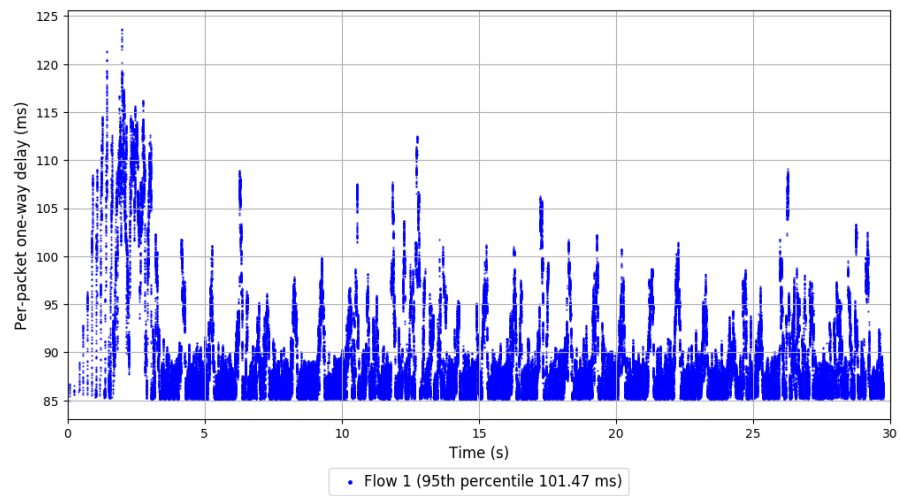
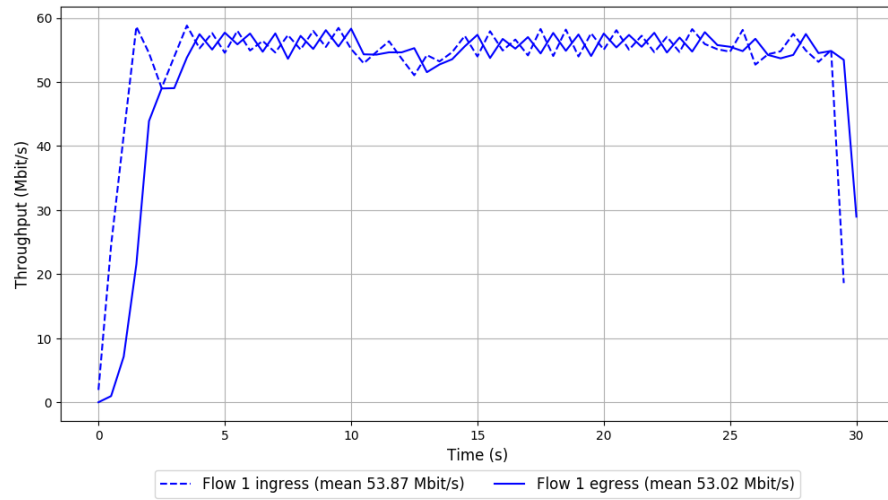


Run 9: Statistics of Indigo

Start at: 2018-07-09 23:23:09
End at: 2018-07-09 23:23:39
Local clock offset: 1.638 ms
Remote clock offset: -0.246 ms

Below is generated by plot.py at 2018-07-09 23:53:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 53.02 Mbit/s
95th percentile per-packet one-way delay: 101.471 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 53.02 Mbit/s
95th percentile per-packet one-way delay: 101.471 ms
Loss rate: 1.58%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-09 23:45:33

End at: 2018-07-09 23:46:03

Local clock offset: 1.6 ms

Remote clock offset: -0.727 ms

Below is generated by plot.py at 2018-07-09 23:53:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.34 Mbit/s

95th percentile per-packet one-way delay: 101.630 ms

Loss rate: 1.30%

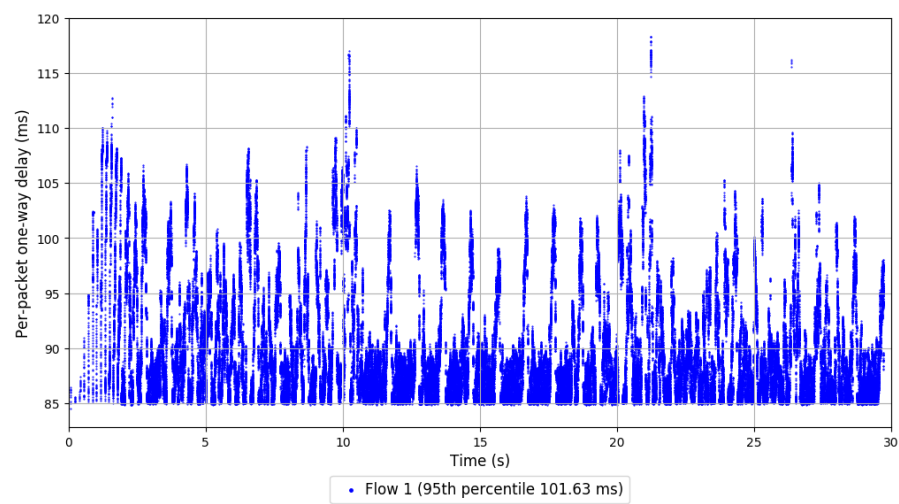
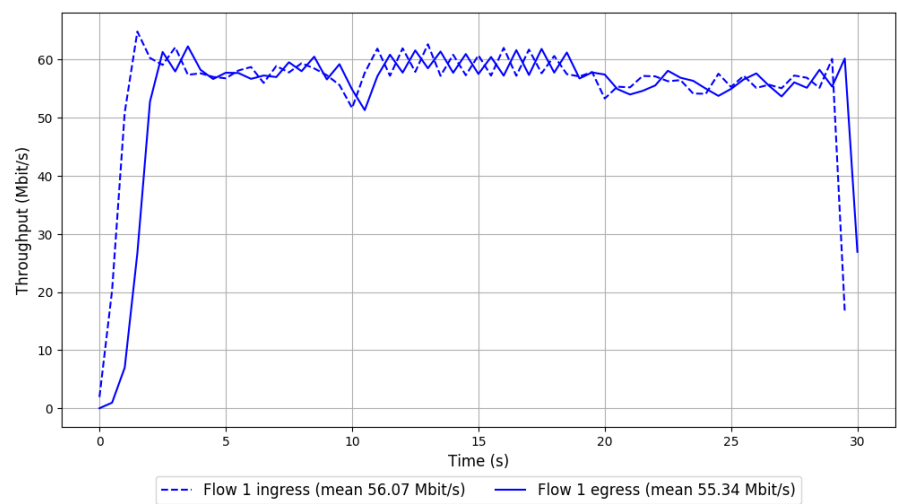
-- Flow 1:

Average throughput: 55.34 Mbit/s

95th percentile per-packet one-way delay: 101.630 ms

Loss rate: 1.30%

Run 10: Report of Indigo — Data Link

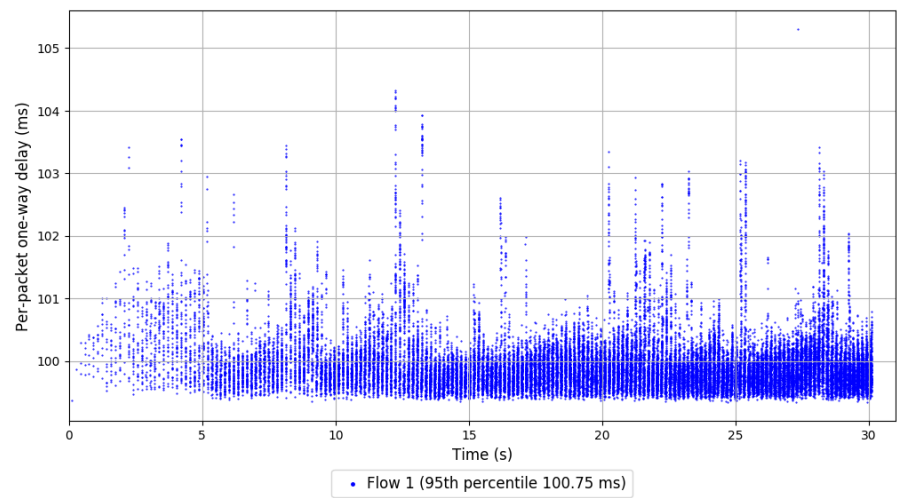
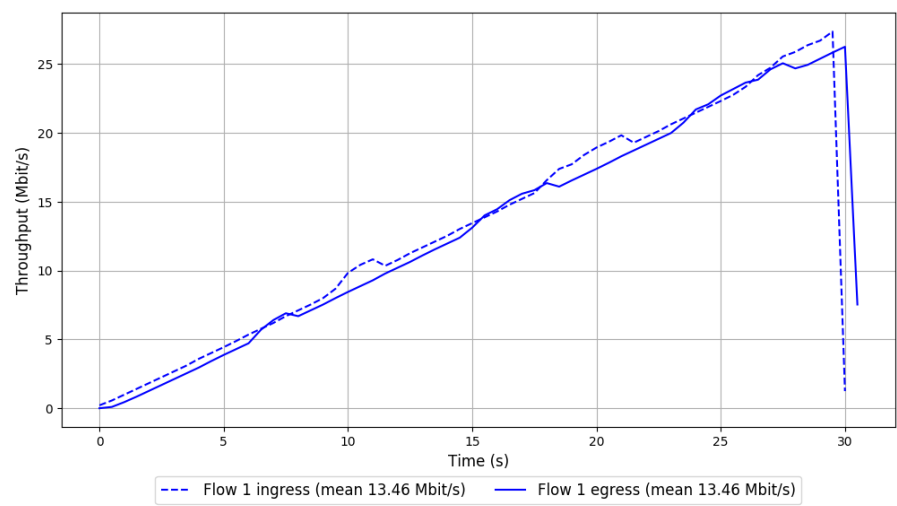


```
Run 1: Statistics of LEDBAT

Start at: 2018-07-09 20:02:39
End at: 2018-07-09 20:03:09
Local clock offset: 1.231 ms
Remote clock offset: 0.141 ms

# Below is generated by plot.py at 2018-07-09 23:53:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.46 Mbit/s
95th percentile per-packet one-way delay: 100.754 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.46 Mbit/s
95th percentile per-packet one-way delay: 100.754 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

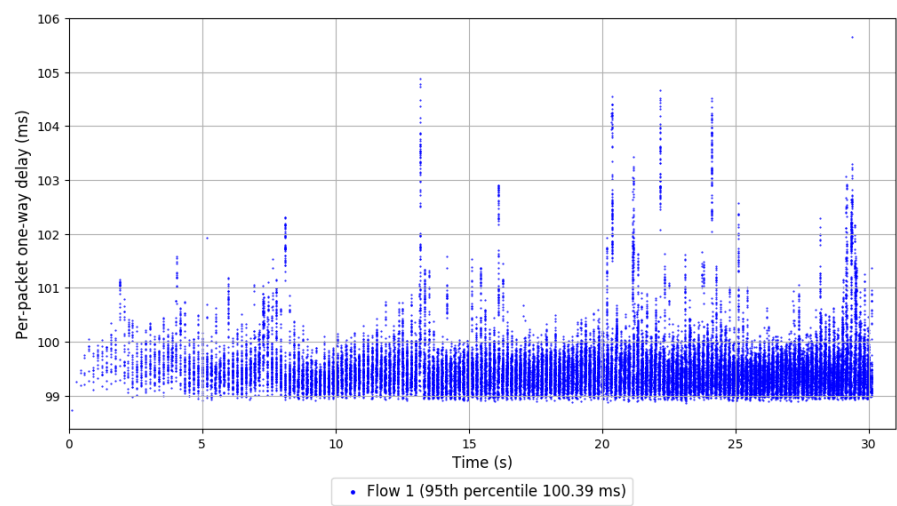
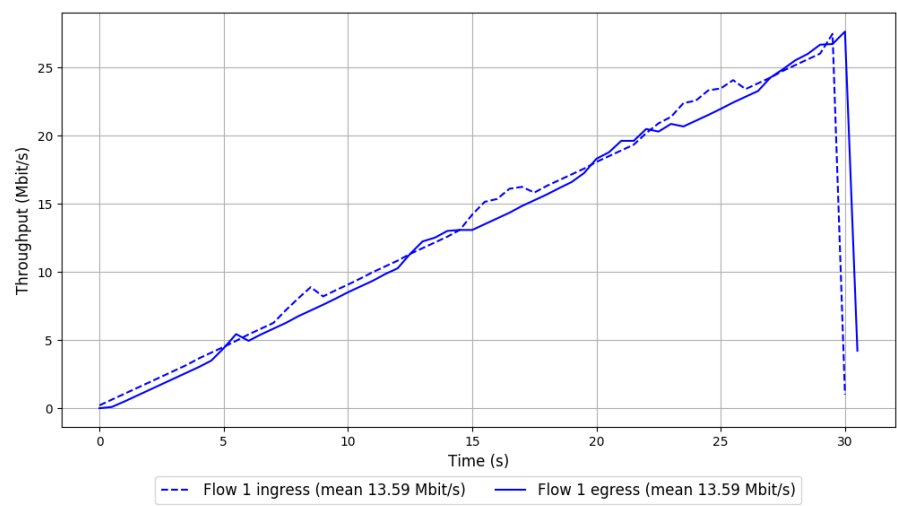


Run 2: Statistics of LEDBAT

Start at: 2018-07-09 20:25:06
End at: 2018-07-09 20:25:36
Local clock offset: 1.703 ms
Remote clock offset: -0.618 ms

Below is generated by plot.py at 2018-07-09 23:53:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.59 Mbit/s
95th percentile per-packet one-way delay: 100.392 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 13.59 Mbit/s
95th percentile per-packet one-way delay: 100.392 ms
Loss rate: 0.01%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-07-09 20:52:43

End at: 2018-07-09 20:53:13

Local clock offset: 0.8 ms

Remote clock offset: -0.932 ms

Below is generated by plot.py at 2018-07-09 23:53:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.33 Mbit/s

95th percentile per-packet one-way delay: 101.410 ms

Loss rate: 0.00%

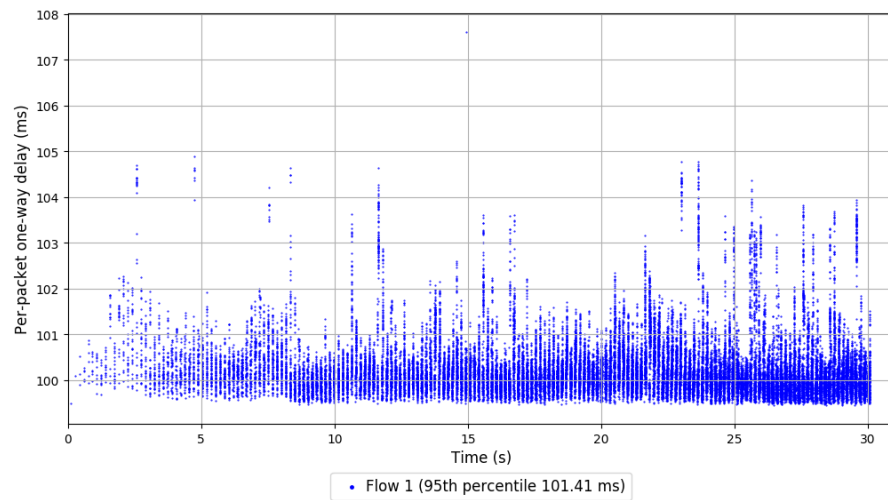
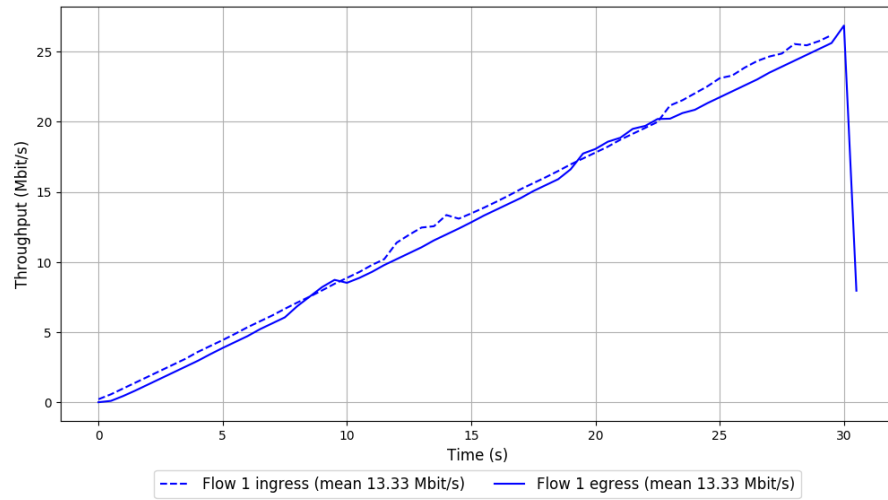
-- Flow 1:

Average throughput: 13.33 Mbit/s

95th percentile per-packet one-way delay: 101.410 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

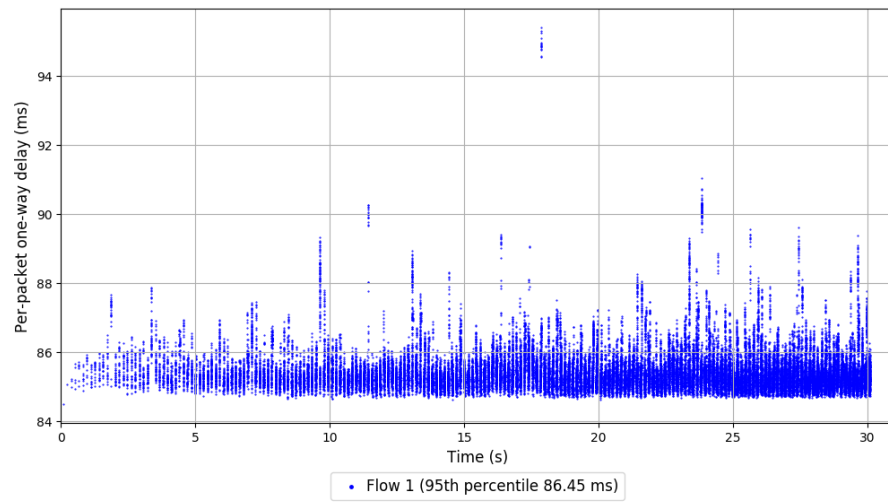
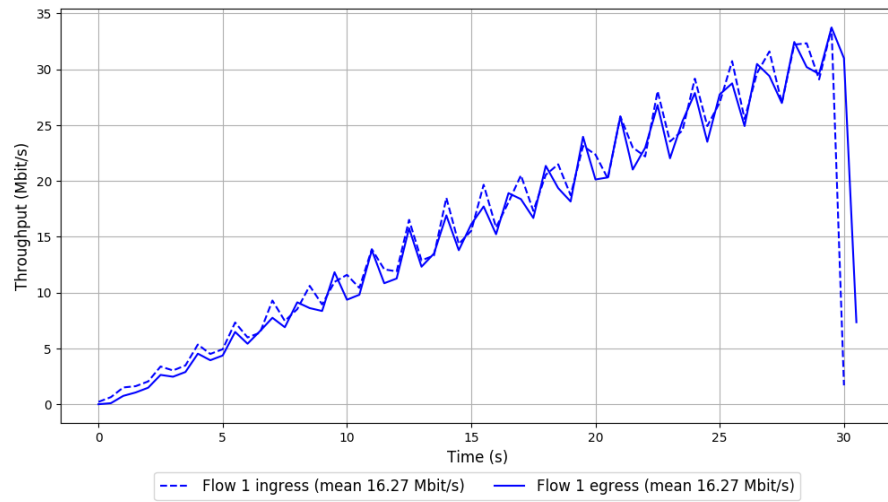


Run 4: Statistics of LEDBAT

Start at: 2018-07-09 21:15:10
End at: 2018-07-09 21:15:40
Local clock offset: 1.23 ms
Remote clock offset: -0.731 ms

Below is generated by plot.py at 2018-07-09 23:53:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 16.27 Mbit/s
95th percentile per-packet one-way delay: 86.452 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 16.27 Mbit/s
95th percentile per-packet one-way delay: 86.452 ms
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

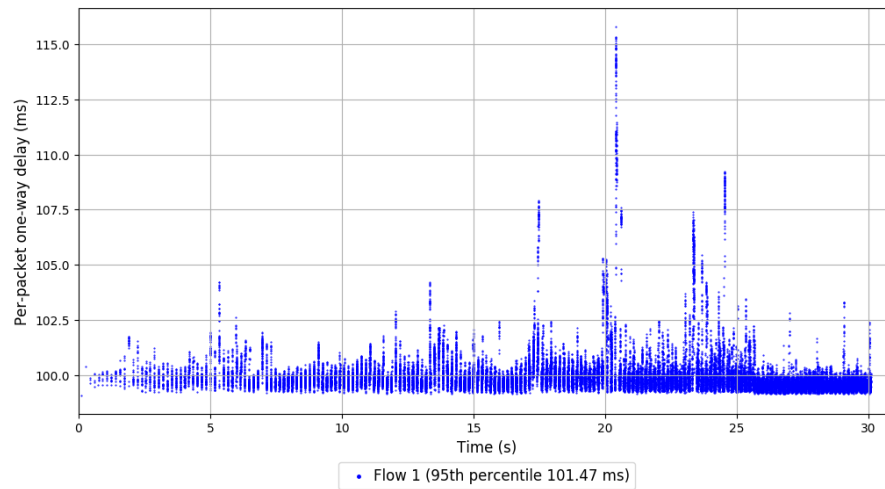
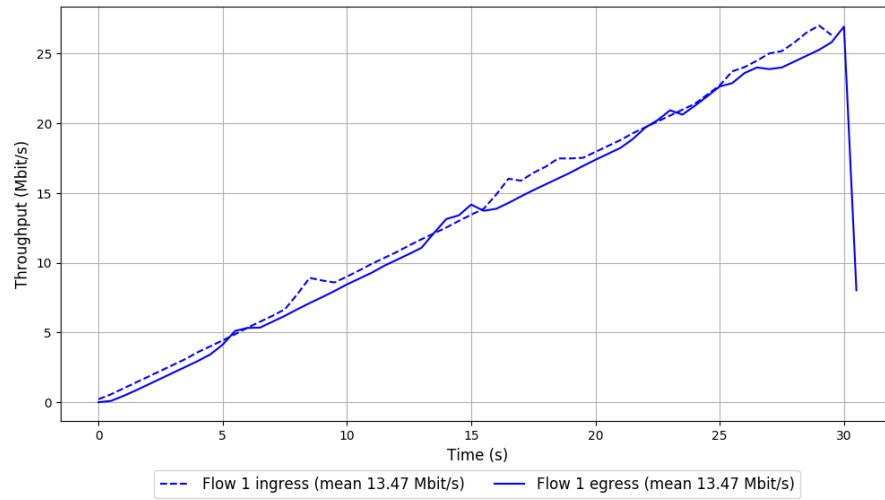


Run 5: Statistics of LEDBAT

Start at: 2018-07-09 21:37:30
End at: 2018-07-09 21:38:00
Local clock offset: 1.206 ms
Remote clock offset: -0.267 ms

Below is generated by plot.py at 2018-07-09 23:53:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.47 Mbit/s
95th percentile per-packet one-way delay: 101.467 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.47 Mbit/s
95th percentile per-packet one-way delay: 101.467 ms
Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-07-09 22:00:04

End at: 2018-07-09 22:00:34

Local clock offset: 1.47 ms

Remote clock offset: 0.232 ms

Below is generated by plot.py at 2018-07-09 23:53:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.52 Mbit/s

95th percentile per-packet one-way delay: 100.741 ms

Loss rate: 0.00%

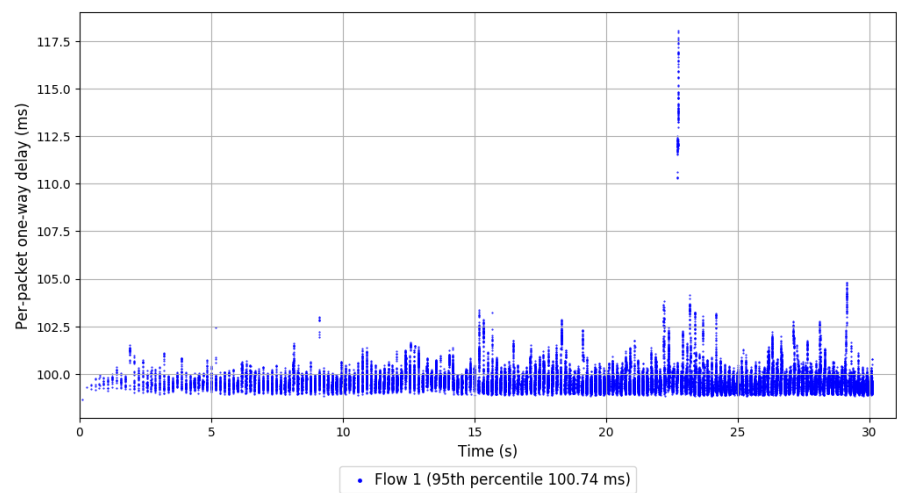
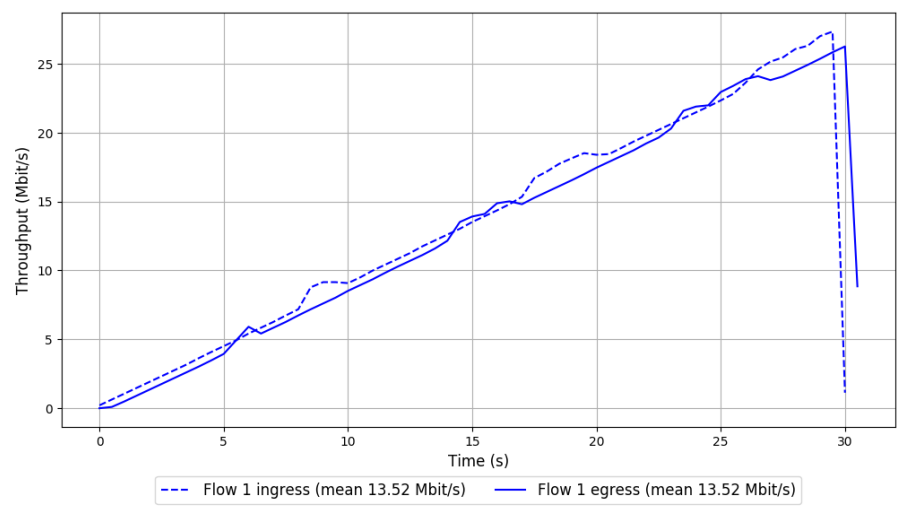
-- Flow 1:

Average throughput: 13.52 Mbit/s

95th percentile per-packet one-way delay: 100.741 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-07-09 22:22:30

End at: 2018-07-09 22:23:00

Local clock offset: 1.672 ms

Remote clock offset: 1.018 ms

Below is generated by plot.py at 2018-07-09 23:53:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.25 Mbit/s

95th percentile per-packet one-way delay: 87.183 ms

Loss rate: 0.00%

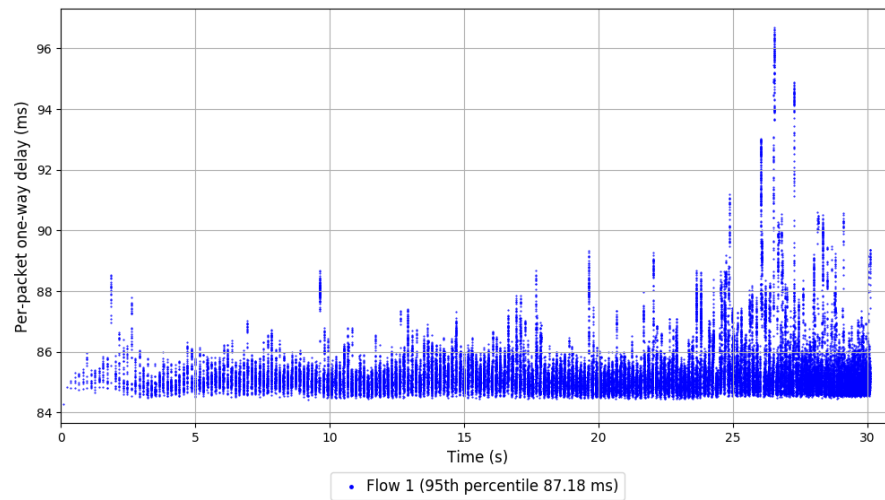
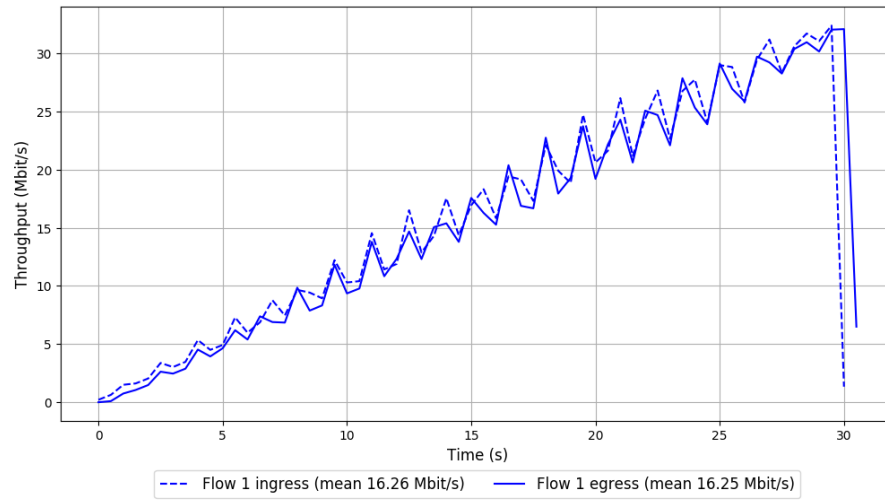
-- Flow 1:

Average throughput: 16.25 Mbit/s

95th percentile per-packet one-way delay: 87.183 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-07-09 22:44:58

End at: 2018-07-09 22:45:28

Local clock offset: 1.657 ms

Remote clock offset: 0.514 ms

Below is generated by plot.py at 2018-07-09 23:53:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.00 Mbit/s

95th percentile per-packet one-way delay: 90.854 ms

Loss rate: 0.37%

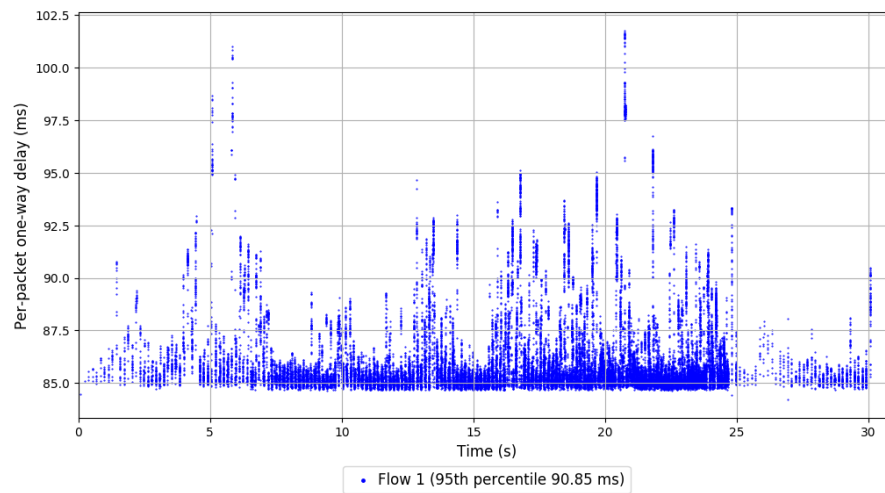
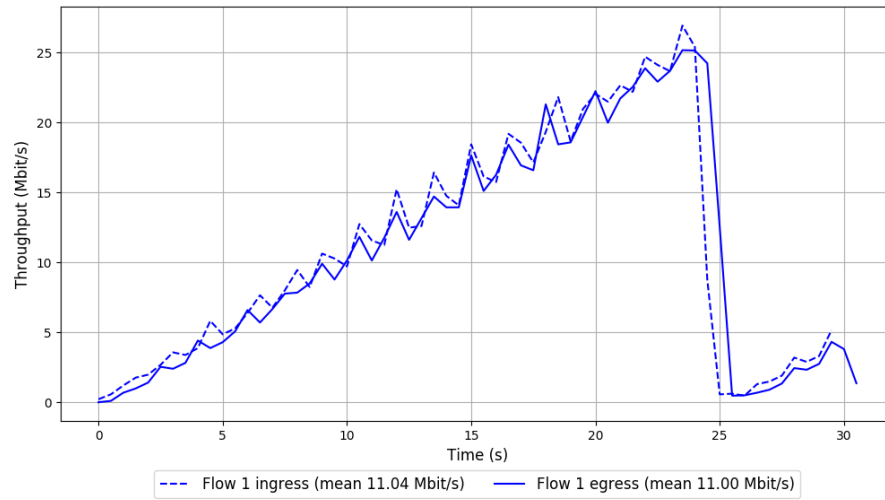
-- Flow 1:

Average throughput: 11.00 Mbit/s

95th percentile per-packet one-way delay: 90.854 ms

Loss rate: 0.37%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-09 23:07:25

End at: 2018-07-09 23:07:55

Local clock offset: 1.442 ms

Remote clock offset: 0.224 ms

Below is generated by plot.py at 2018-07-09 23:53:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.09 Mbit/s

95th percentile per-packet one-way delay: 87.075 ms

Loss rate: 0.00%

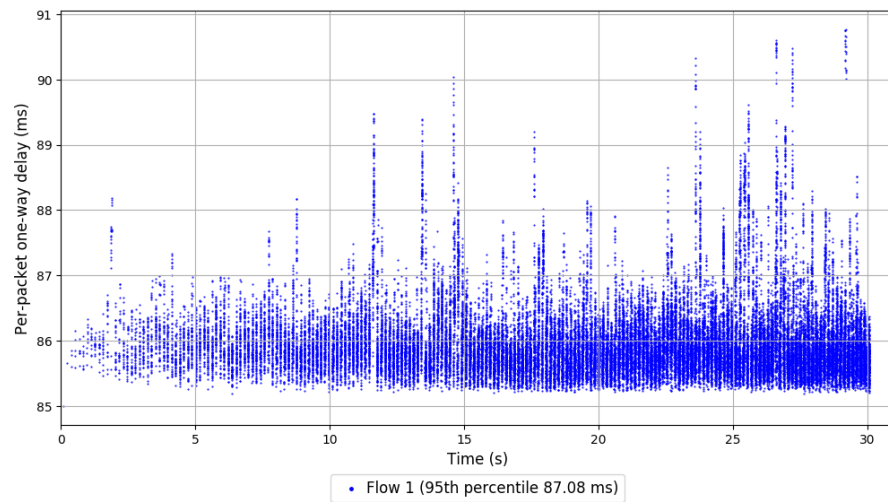
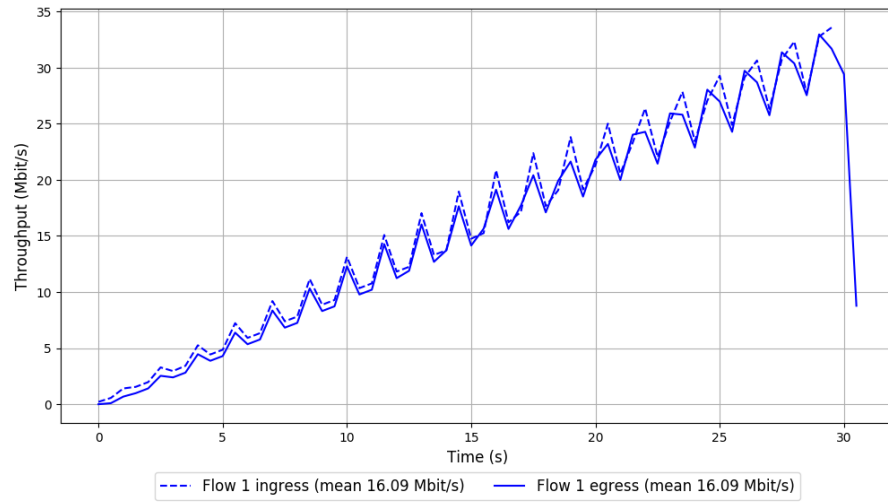
-- Flow 1:

Average throughput: 16.09 Mbit/s

95th percentile per-packet one-way delay: 87.075 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-09 23:29:45

End at: 2018-07-09 23:30:16

Local clock offset: 1.484 ms

Remote clock offset: -0.29 ms

Below is generated by plot.py at 2018-07-09 23:53:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.80 Mbit/s

95th percentile per-packet one-way delay: 101.472 ms

Loss rate: 0.06%

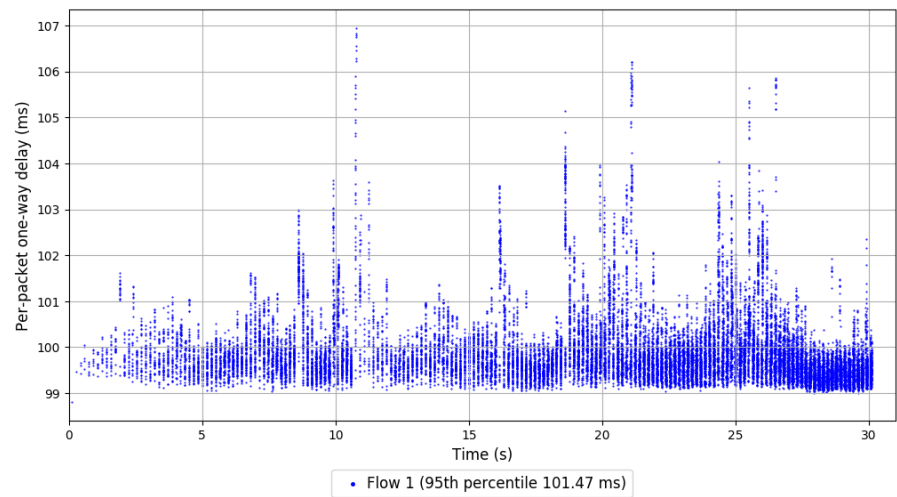
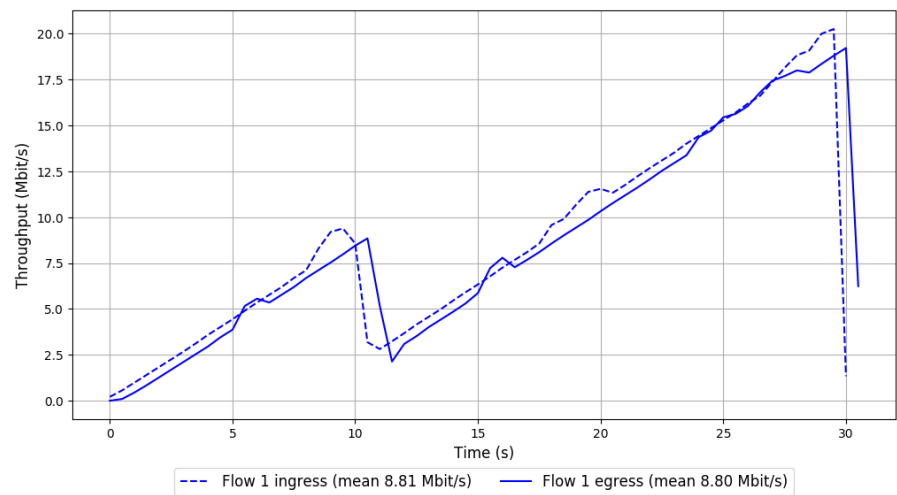
-- Flow 1:

Average throughput: 8.80 Mbit/s

95th percentile per-packet one-way delay: 101.472 ms

Loss rate: 0.06%

Run 10: Report of LEDBAT — Data Link

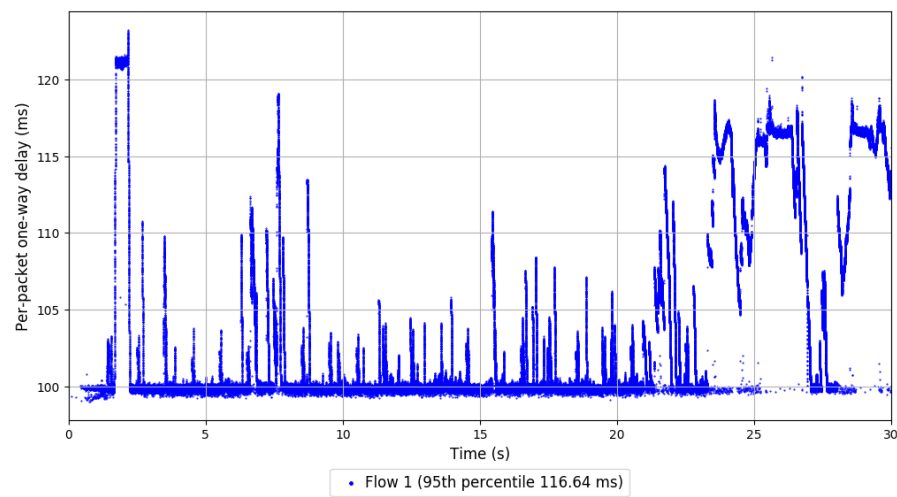
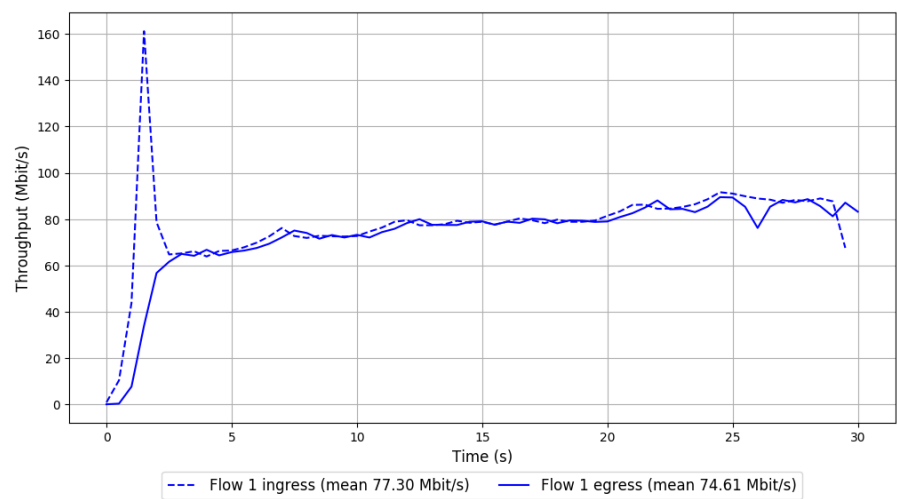


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-07-09 20:06:36
End at: 2018-07-09 20:07:06
Local clock offset: 1.168 ms
Remote clock offset: 0.181 ms

# Below is generated by plot.py at 2018-07-09 23:54:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.61 Mbit/s
95th percentile per-packet one-way delay: 116.638 ms
Loss rate: 3.47%
-- Flow 1:
Average throughput: 74.61 Mbit/s
95th percentile per-packet one-way delay: 116.638 ms
Loss rate: 3.47%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-07-09 20:29:01

End at: 2018-07-09 20:29:31

Local clock offset: 1.674 ms

Remote clock offset: -0.752 ms

Below is generated by plot.py at 2018-07-09 23:54:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.05 Mbit/s

95th percentile per-packet one-way delay: 101.446 ms

Loss rate: 2.65%

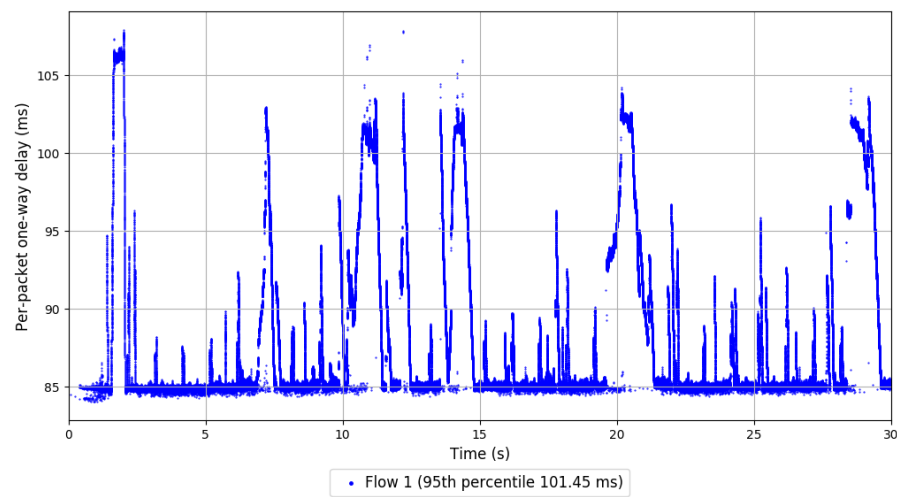
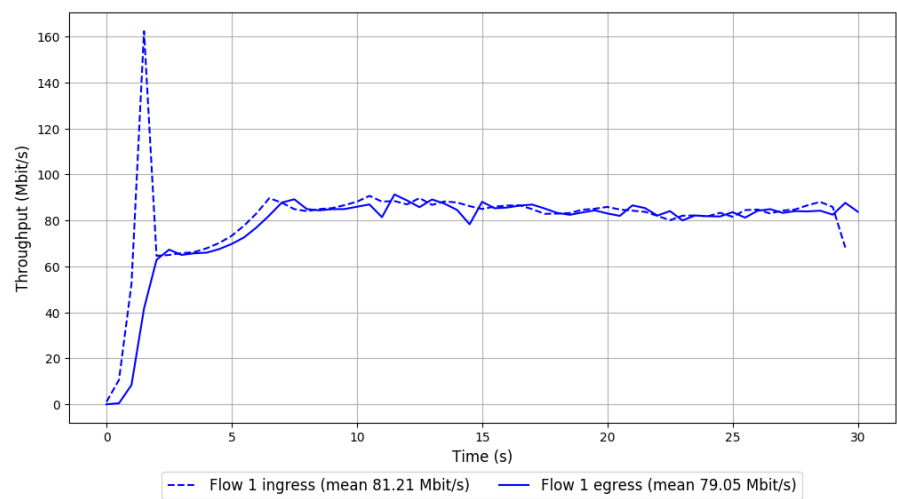
-- Flow 1:

Average throughput: 79.05 Mbit/s

95th percentile per-packet one-way delay: 101.446 ms

Loss rate: 2.65%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-09 20:56:39

End at: 2018-07-09 20:57:09

Local clock offset: 1.072 ms

Remote clock offset: -0.842 ms

Below is generated by plot.py at 2018-07-09 23:54:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.52 Mbit/s

95th percentile per-packet one-way delay: 97.414 ms

Loss rate: 2.47%

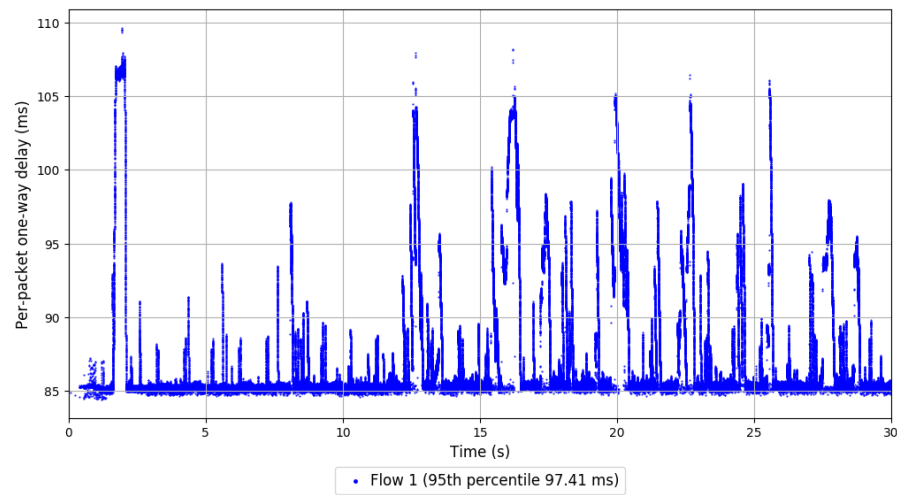
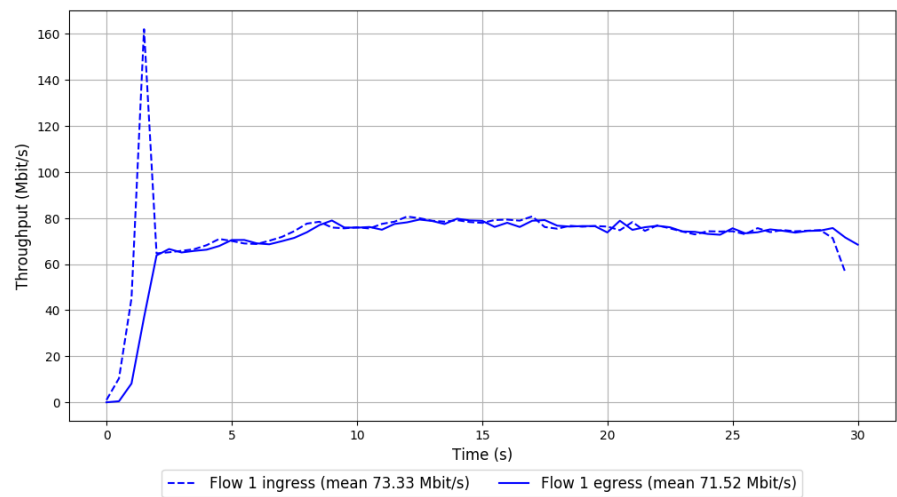
-- Flow 1:

Average throughput: 71.52 Mbit/s

95th percentile per-packet one-way delay: 97.414 ms

Loss rate: 2.47%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-09 21:19:06

End at: 2018-07-09 21:19:36

Local clock offset: 1.128 ms

Remote clock offset: -0.723 ms

Below is generated by plot.py at 2018-07-09 23:54:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.32 Mbit/s

95th percentile per-packet one-way delay: 101.998 ms

Loss rate: 3.49%

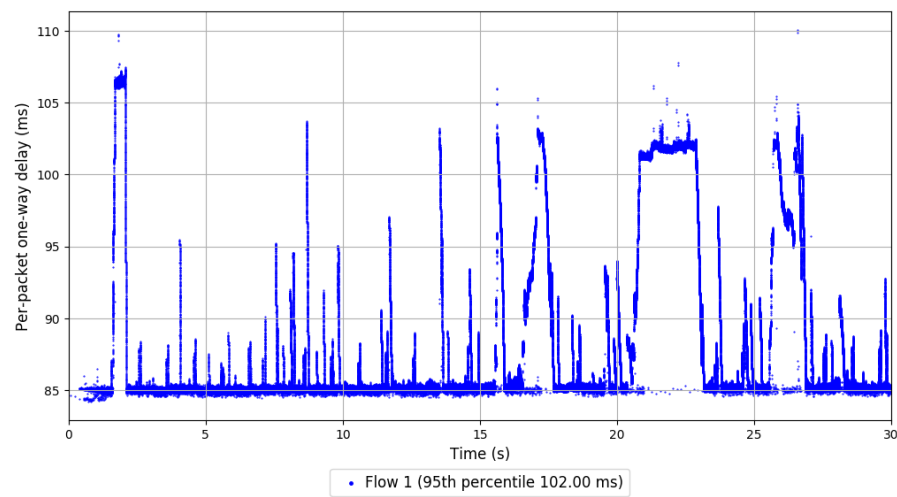
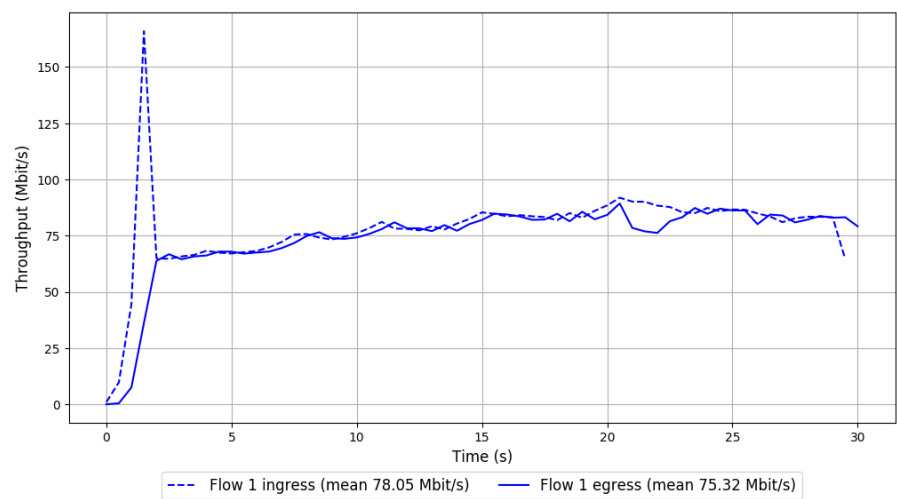
-- Flow 1:

Average throughput: 75.32 Mbit/s

95th percentile per-packet one-way delay: 101.998 ms

Loss rate: 3.49%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-07-09 21:41:26

End at: 2018-07-09 21:41:56

Local clock offset: 1.414 ms

Remote clock offset: -0.158 ms

Below is generated by plot.py at 2018-07-09 23:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.88 Mbit/s

95th percentile per-packet one-way delay: 101.897 ms

Loss rate: 2.77%

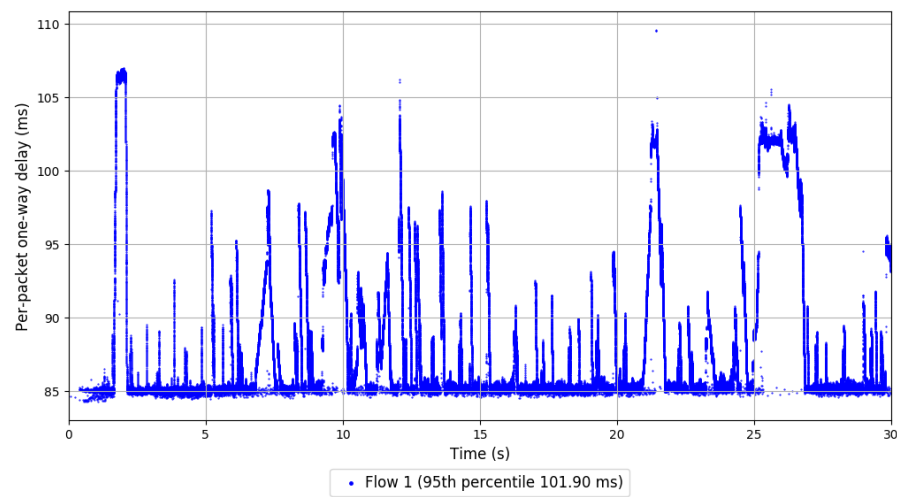
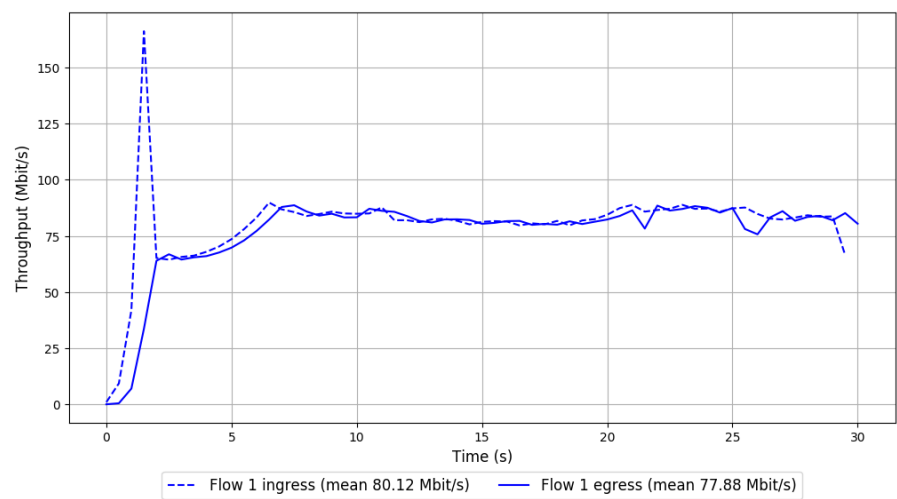
-- Flow 1:

Average throughput: 77.88 Mbit/s

95th percentile per-packet one-way delay: 101.897 ms

Loss rate: 2.77%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-09 22:04:01

End at: 2018-07-09 22:04:31

Local clock offset: 1.247 ms

Remote clock offset: 0.474 ms

Below is generated by plot.py at 2018-07-09 23:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.08 Mbit/s

95th percentile per-packet one-way delay: 101.019 ms

Loss rate: 2.49%

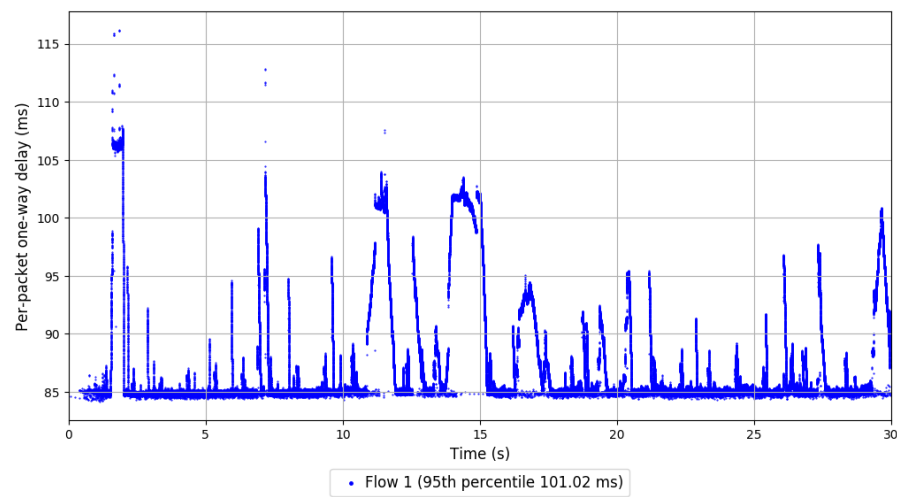
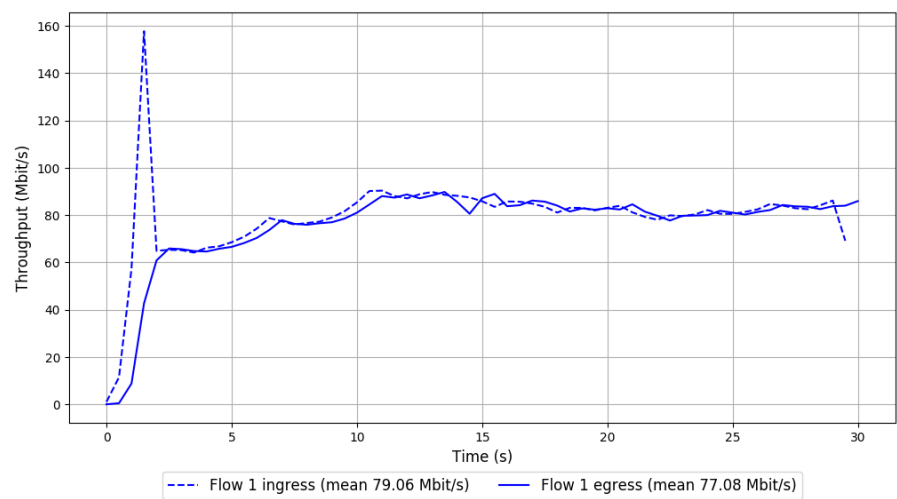
-- Flow 1:

Average throughput: 77.08 Mbit/s

95th percentile per-packet one-way delay: 101.019 ms

Loss rate: 2.49%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-09 22:26:26

End at: 2018-07-09 22:26:56

Local clock offset: 1.569 ms

Remote clock offset: 1.104 ms

Below is generated by plot.py at 2018-07-09 23:54:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.58 Mbit/s

95th percentile per-packet one-way delay: 101.377 ms

Loss rate: 2.75%

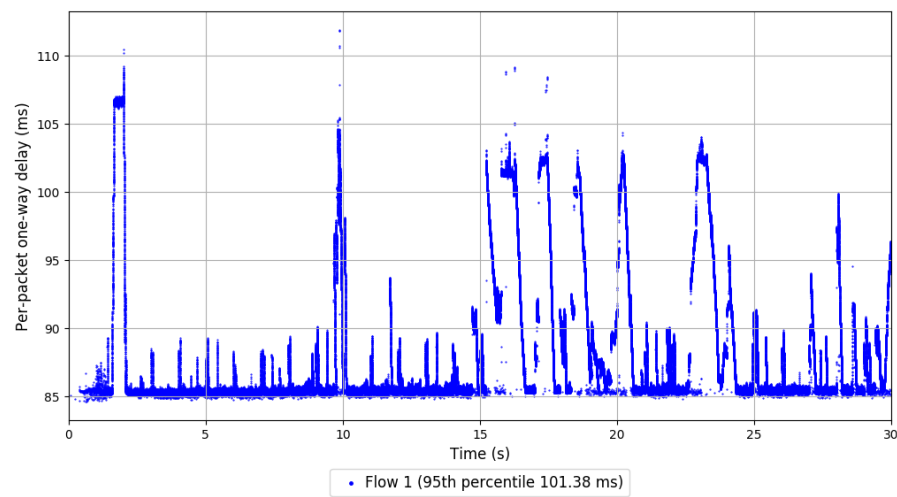
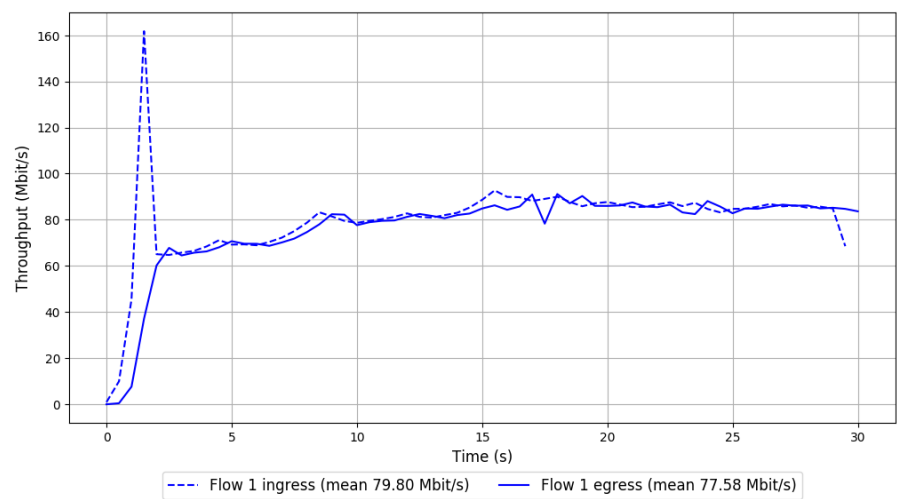
-- Flow 1:

Average throughput: 77.58 Mbit/s

95th percentile per-packet one-way delay: 101.377 ms

Loss rate: 2.75%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-07-09 22:48:54

End at: 2018-07-09 22:49:24

Local clock offset: 1.648 ms

Remote clock offset: 0.487 ms

Below is generated by plot.py at 2018-07-09 23:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.25 Mbit/s

95th percentile per-packet one-way delay: 101.877 ms

Loss rate: 2.99%

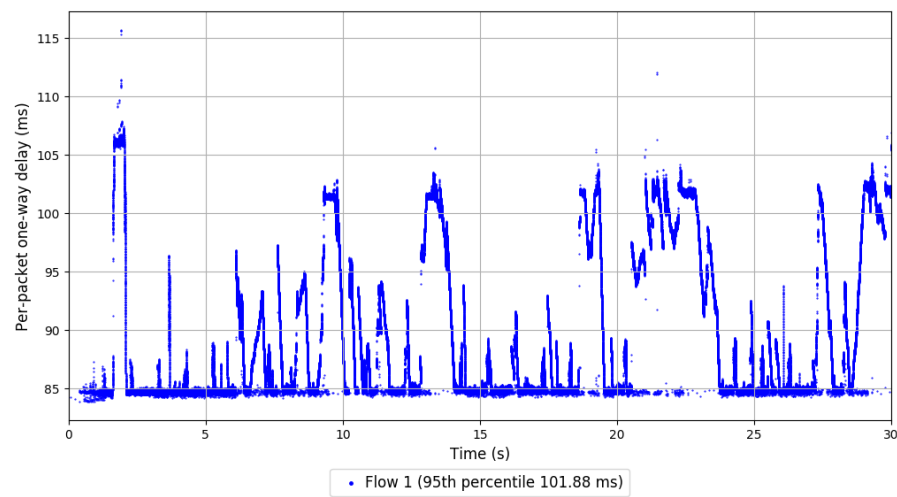
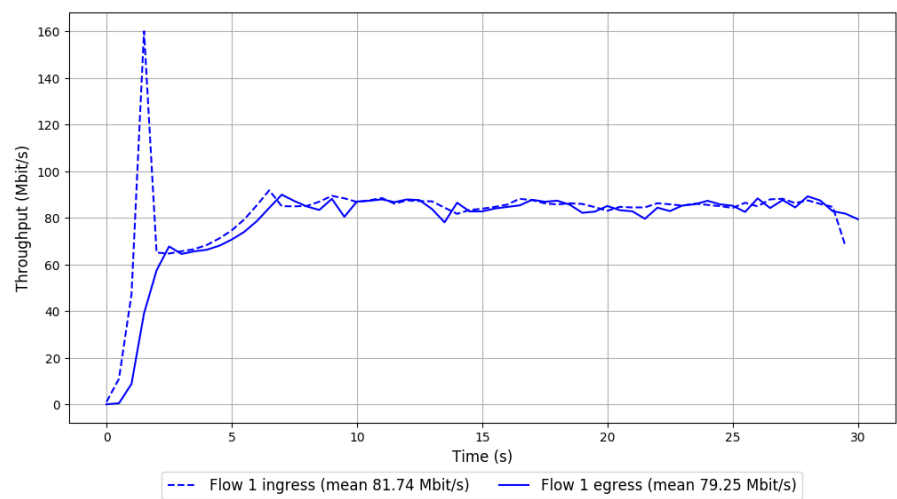
-- Flow 1:

Average throughput: 79.25 Mbit/s

95th percentile per-packet one-way delay: 101.877 ms

Loss rate: 2.99%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-09 23:11:20

End at: 2018-07-09 23:11:50

Local clock offset: 1.582 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-07-09 23:54:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.88 Mbit/s

95th percentile per-packet one-way delay: 102.266 ms

Loss rate: 4.12%

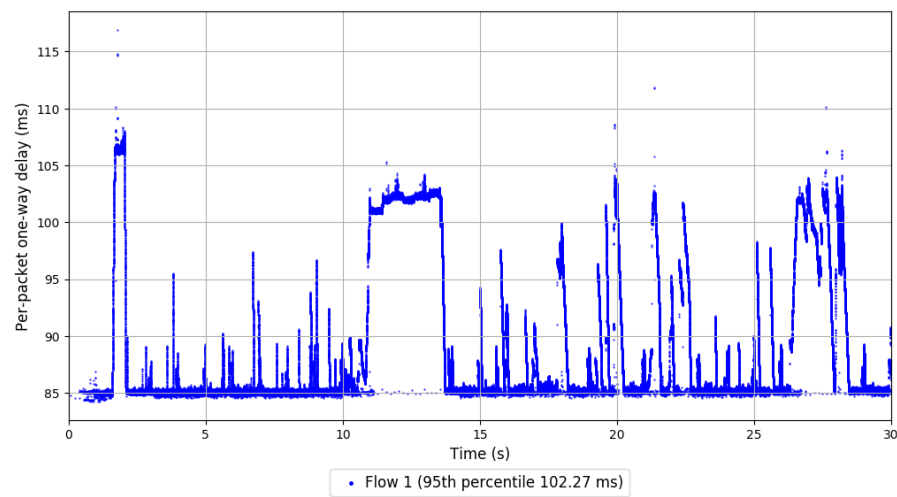
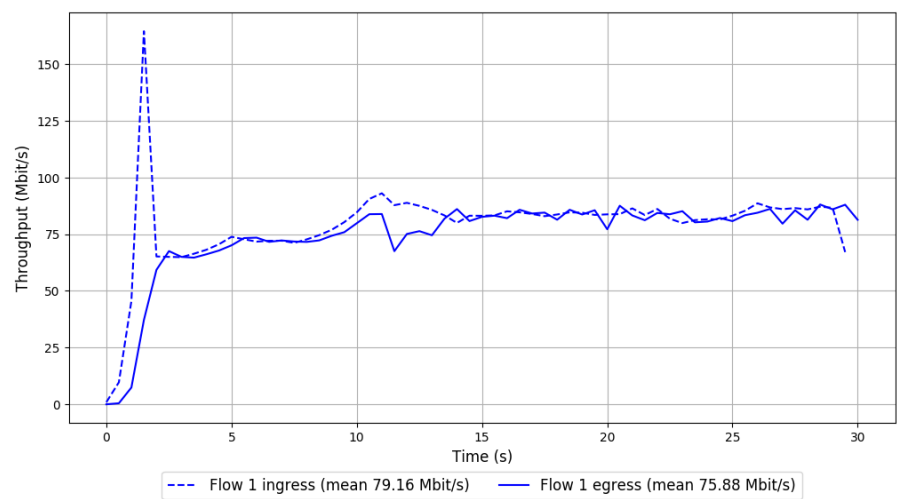
-- Flow 1:

Average throughput: 75.88 Mbit/s

95th percentile per-packet one-way delay: 102.266 ms

Loss rate: 4.12%

Run 9: Report of PCC-Allegro — Data Link

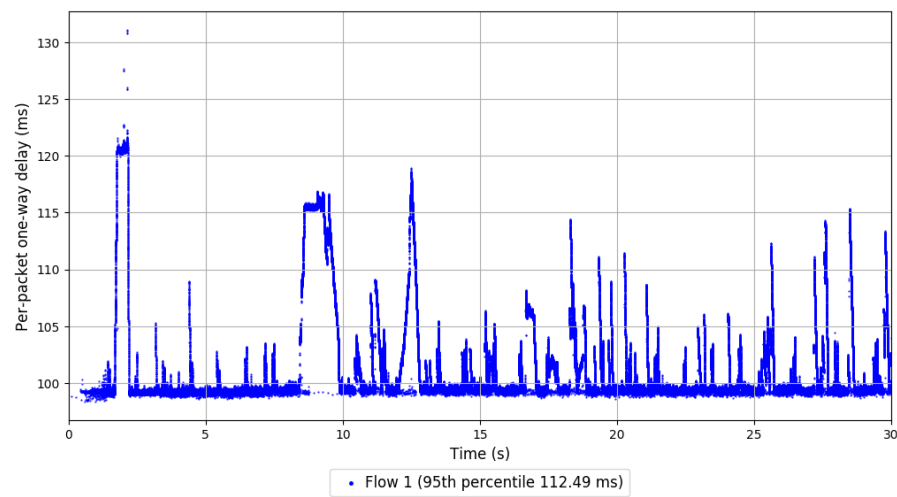
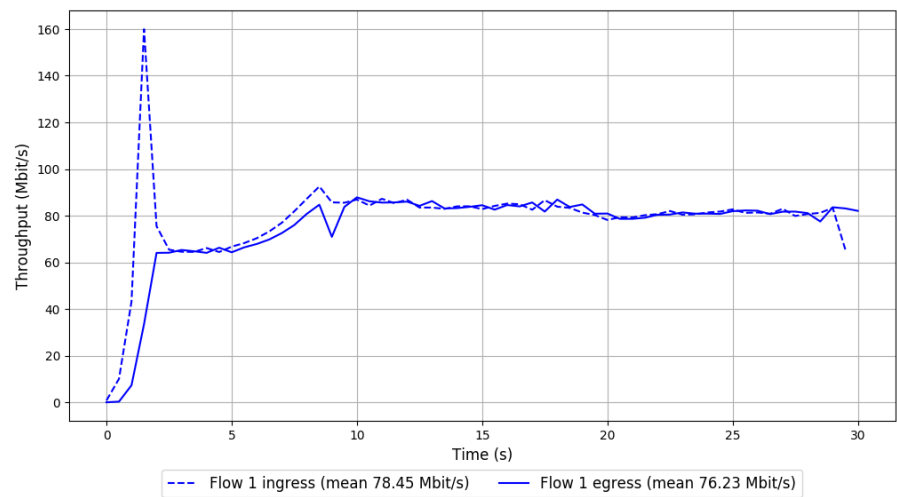


Run 10: Statistics of PCC-Allegro

Start at: 2018-07-09 23:33:41
End at: 2018-07-09 23:34:11
Local clock offset: 1.465 ms
Remote clock offset: -0.395 ms

Below is generated by plot.py at 2018-07-09 23:55:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.23 Mbit/s
95th percentile per-packet one-way delay: 112.486 ms
Loss rate: 2.82%
-- Flow 1:
Average throughput: 76.23 Mbit/s
95th percentile per-packet one-way delay: 112.486 ms
Loss rate: 2.82%

Run 10: Report of PCC-Allegro — Data Link

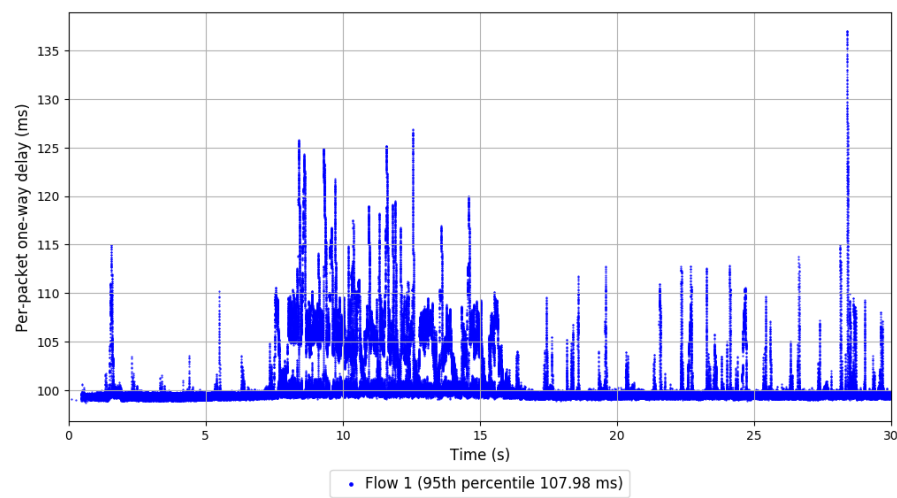
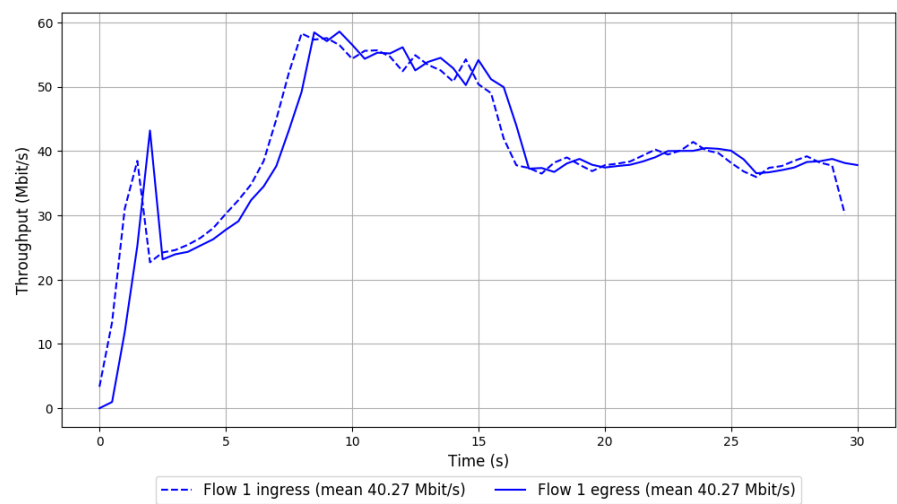


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-09 20:09:13
End at: 2018-07-09 20:09:43
Local clock offset: 1.49 ms
Remote clock offset: 0.239 ms

# Below is generated by plot.py at 2018-07-09 23:55:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.27 Mbit/s
95th percentile per-packet one-way delay: 107.978 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 40.27 Mbit/s
95th percentile per-packet one-way delay: 107.978 ms
Loss rate: 0.00%
```


Run 1: Report of PCC-Expr — Data Link

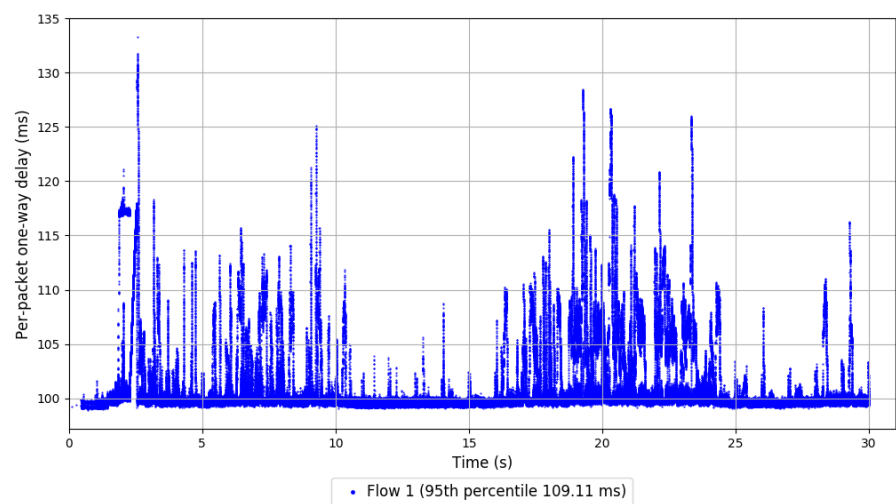
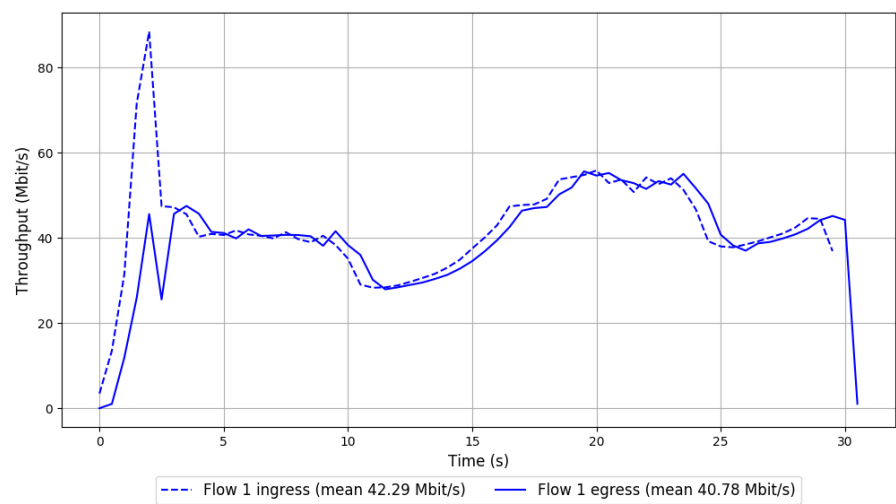


Run 2: Statistics of PCC-Expr

Start at: 2018-07-09 20:31:37
End at: 2018-07-09 20:32:07
Local clock offset: 1.479 ms
Remote clock offset: -0.779 ms

Below is generated by plot.py at 2018-07-09 23:55:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 40.78 Mbit/s
95th percentile per-packet one-way delay: 109.110 ms
Loss rate: 3.58%
-- Flow 1:
Average throughput: 40.78 Mbit/s
95th percentile per-packet one-way delay: 109.110 ms
Loss rate: 3.58%

Run 2: Report of PCC-Expr — Data Link

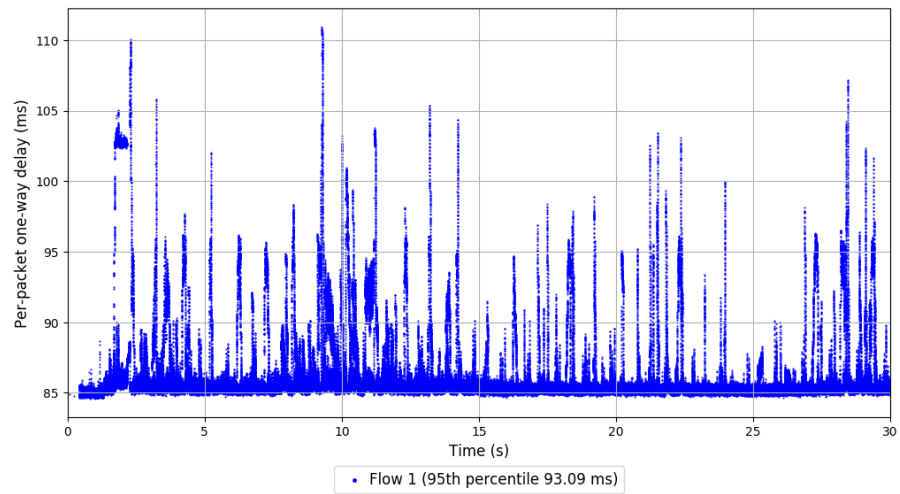
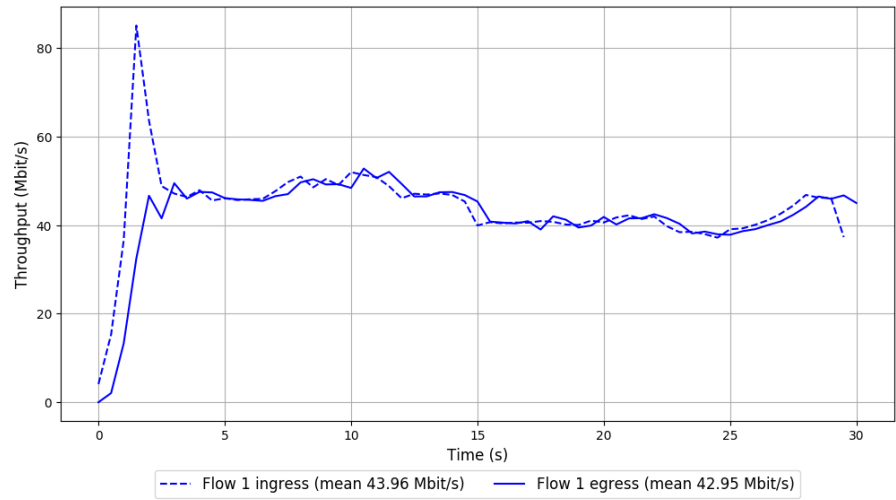


Run 3: Statistics of PCC-Expr

Start at: 2018-07-09 20:59:15
End at: 2018-07-09 20:59:46
Local clock offset: 0.981 ms
Remote clock offset: -0.811 ms

Below is generated by plot.py at 2018-07-09 23:55:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 42.95 Mbit/s
95th percentile per-packet one-way delay: 93.089 ms
Loss rate: 2.29%
-- Flow 1:
Average throughput: 42.95 Mbit/s
95th percentile per-packet one-way delay: 93.089 ms
Loss rate: 2.29%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-07-09 21:21:42

End at: 2018-07-09 21:22:12

Local clock offset: 1.294 ms

Remote clock offset: -0.691 ms

Below is generated by plot.py at 2018-07-09 23:55:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.69 Mbit/s

95th percentile per-packet one-way delay: 108.647 ms

Loss rate: 2.41%

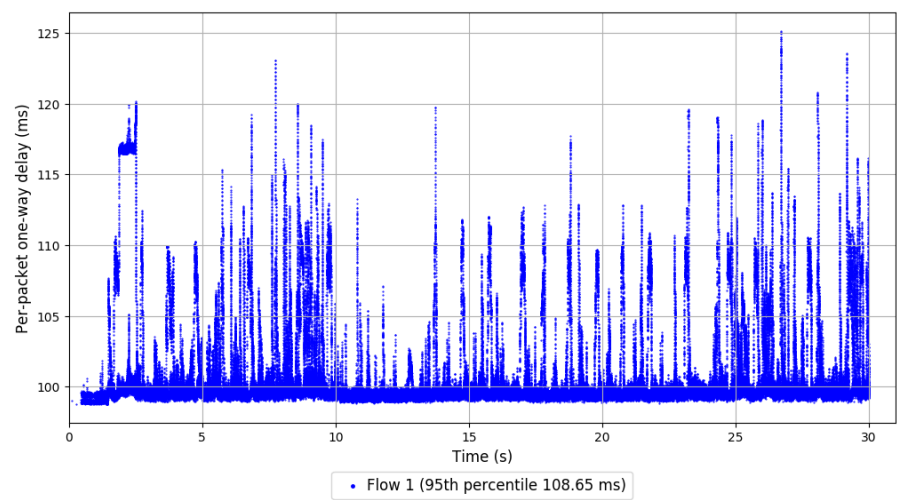
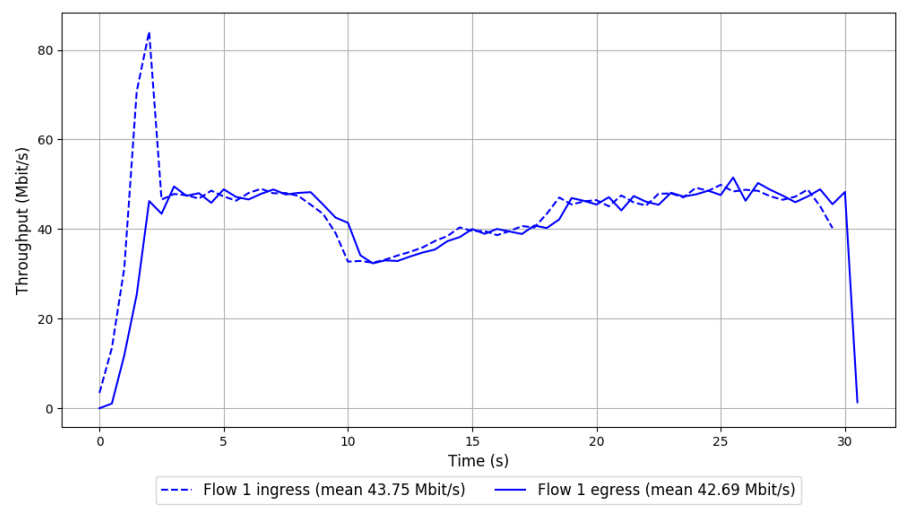
-- Flow 1:

Average throughput: 42.69 Mbit/s

95th percentile per-packet one-way delay: 108.647 ms

Loss rate: 2.41%

Run 4: Report of PCC-Expr — Data Link

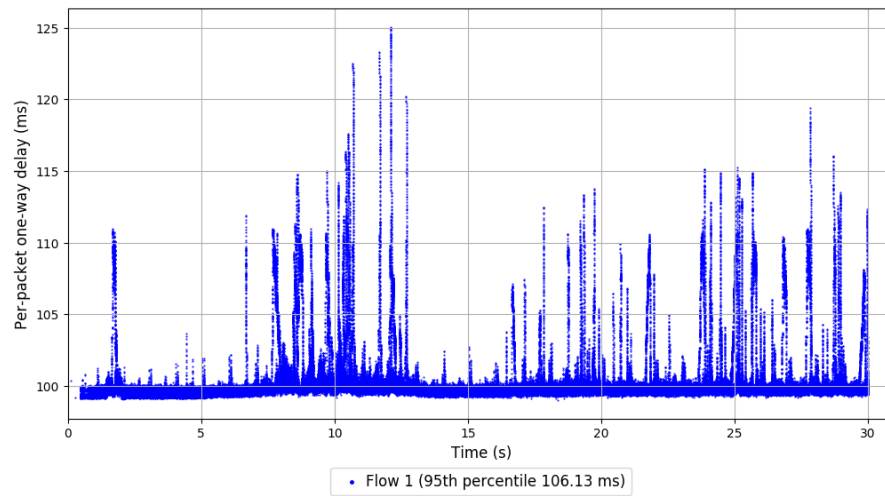
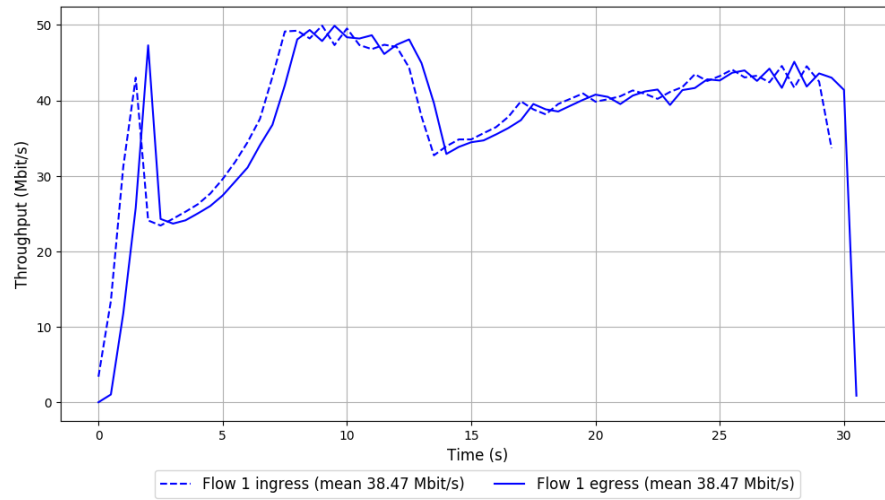


Run 5: Statistics of PCC-Expr

Start at: 2018-07-09 21:44:03
End at: 2018-07-09 21:44:33
Local clock offset: 1.271 ms
Remote clock offset: -0.076 ms

Below is generated by plot.py at 2018-07-09 23:55:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 38.47 Mbit/s
95th percentile per-packet one-way delay: 106.132 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 38.47 Mbit/s
95th percentile per-packet one-way delay: 106.132 ms
Loss rate: 0.00%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-07-09 22:06:38

End at: 2018-07-09 22:07:08

Local clock offset: 1.405 ms

Remote clock offset: 0.567 ms

Below is generated by plot.py at 2018-07-09 23:55:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.51 Mbit/s

95th percentile per-packet one-way delay: 93.895 ms

Loss rate: 3.01%

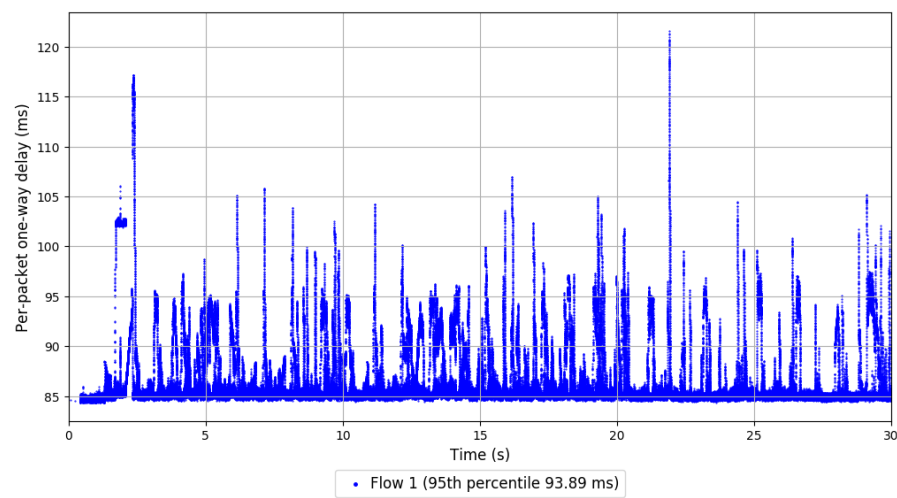
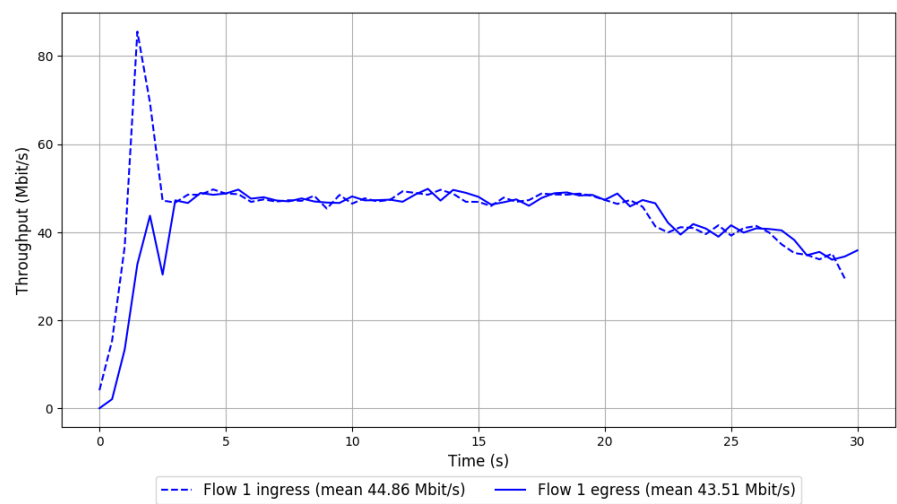
-- Flow 1:

Average throughput: 43.51 Mbit/s

95th percentile per-packet one-way delay: 93.895 ms

Loss rate: 3.01%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-07-09 22:29:04

End at: 2018-07-09 22:29:34

Local clock offset: 1.557 ms

Remote clock offset: 1.138 ms

Below is generated by plot.py at 2018-07-09 23:56:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.08 Mbit/s

95th percentile per-packet one-way delay: 107.891 ms

Loss rate: 2.32%

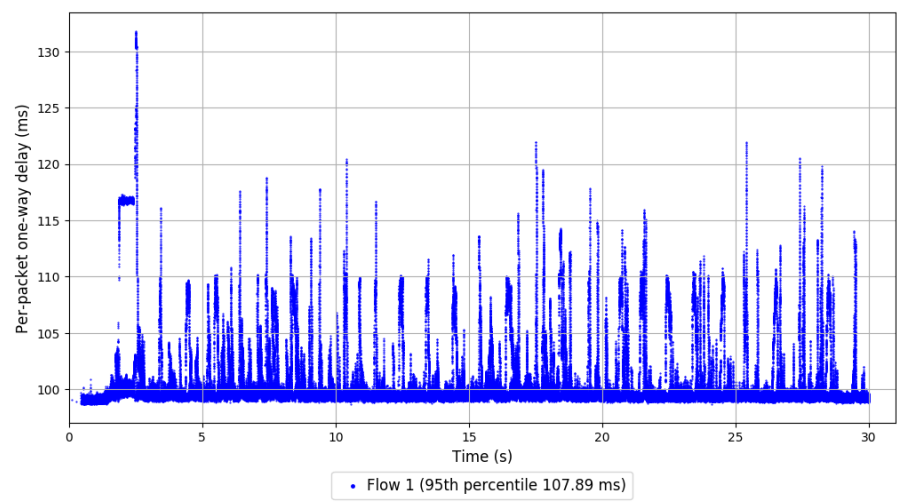
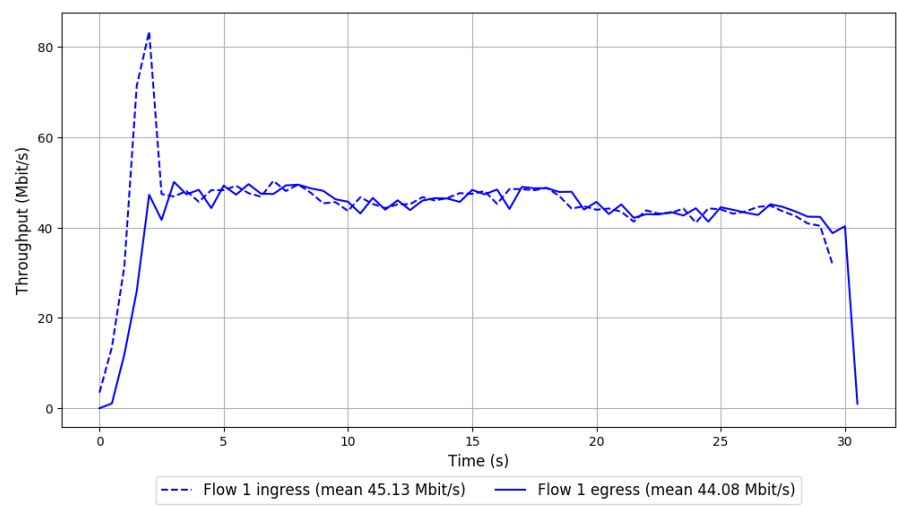
-- Flow 1:

Average throughput: 44.08 Mbit/s

95th percentile per-packet one-way delay: 107.891 ms

Loss rate: 2.32%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-07-09 22:51:32

End at: 2018-07-09 22:52:02

Local clock offset: 1.529 ms

Remote clock offset: 0.495 ms

Below is generated by plot.py at 2018-07-09 23:56:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.24 Mbit/s

95th percentile per-packet one-way delay: 93.084 ms

Loss rate: 2.00%

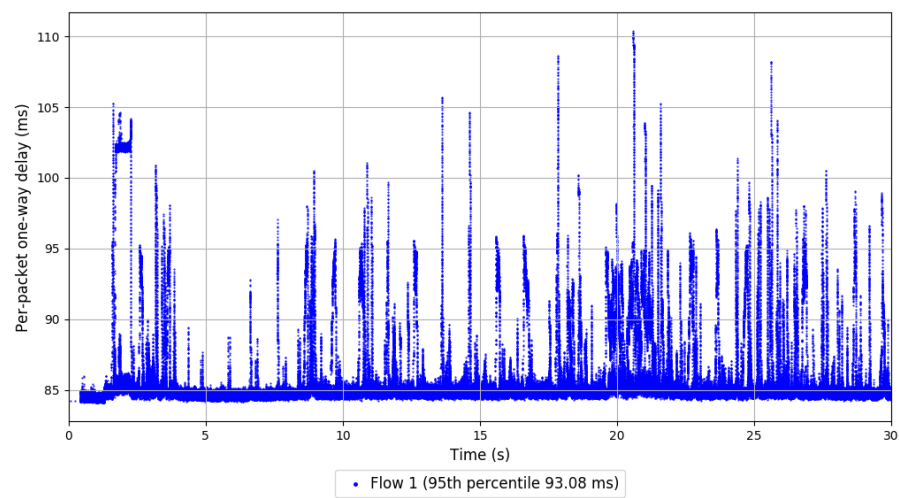
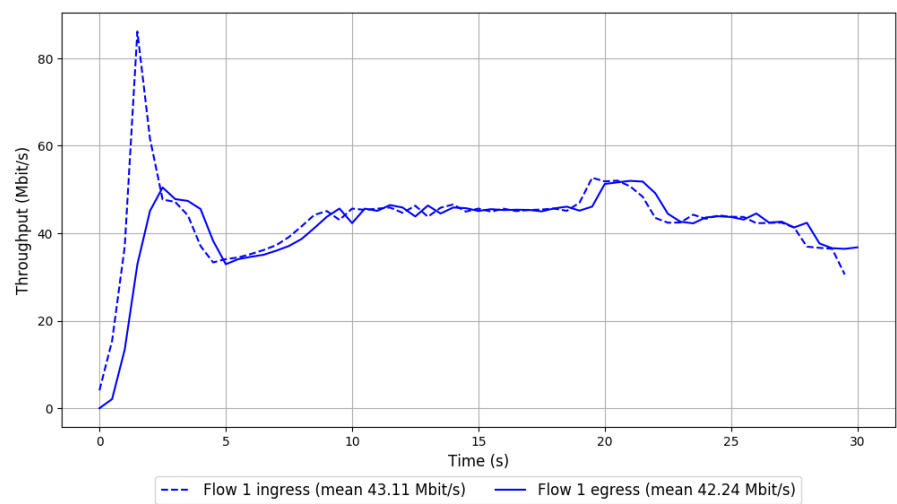
-- Flow 1:

Average throughput: 42.24 Mbit/s

95th percentile per-packet one-way delay: 93.084 ms

Loss rate: 2.00%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-07-09 23:13:57

End at: 2018-07-09 23:14:27

Local clock offset: 1.604 ms

Remote clock offset: -0.086 ms

Below is generated by plot.py at 2018-07-09 23:56:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.40 Mbit/s

95th percentile per-packet one-way delay: 94.535 ms

Loss rate: 2.01%

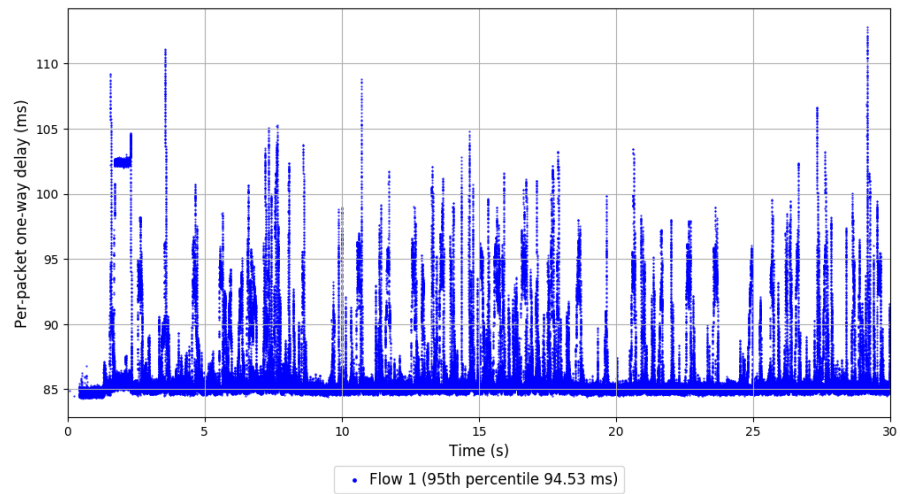
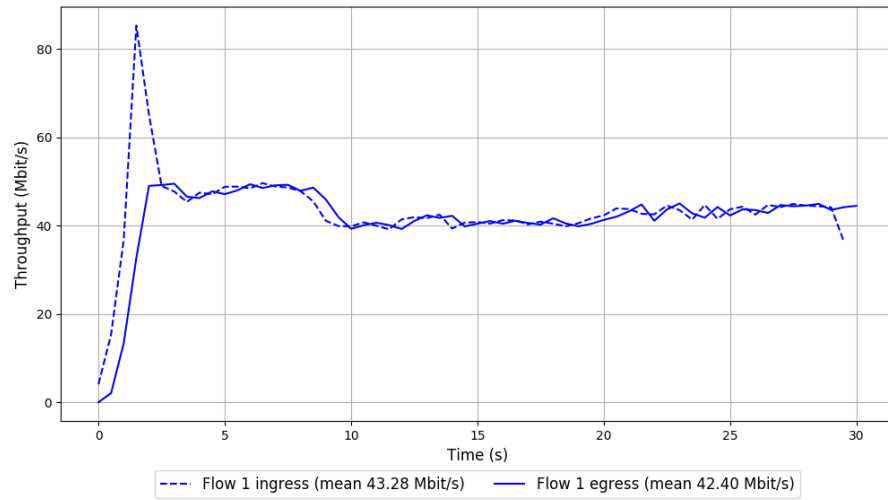
-- Flow 1:

Average throughput: 42.40 Mbit/s

95th percentile per-packet one-way delay: 94.535 ms

Loss rate: 2.01%

Run 9: Report of PCC-Expr — Data Link

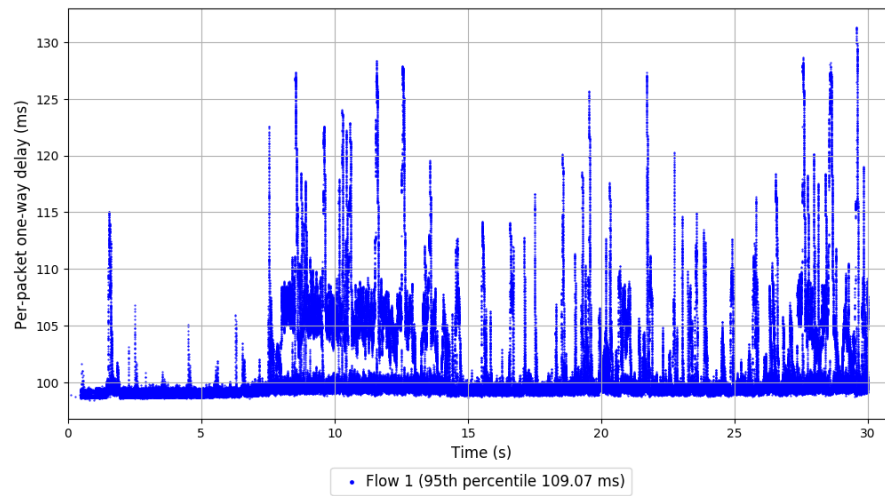
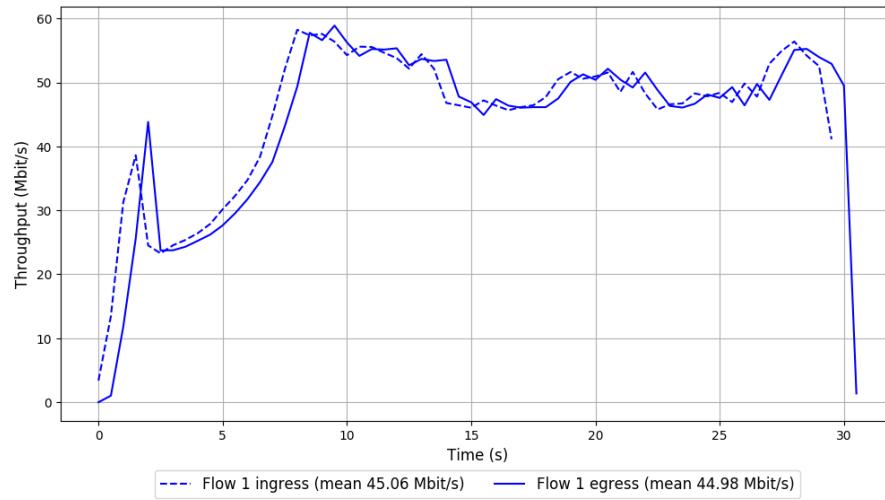


Run 10: Statistics of PCC-Expr

Start at: 2018-07-09 23:36:18
End at: 2018-07-09 23:36:48
Local clock offset: 1.451 ms
Remote clock offset: -0.422 ms

Below is generated by plot.py at 2018-07-09 23:56:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 44.98 Mbit/s
95th percentile per-packet one-way delay: 109.067 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 44.98 Mbit/s
95th percentile per-packet one-way delay: 109.067 ms
Loss rate: 0.17%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

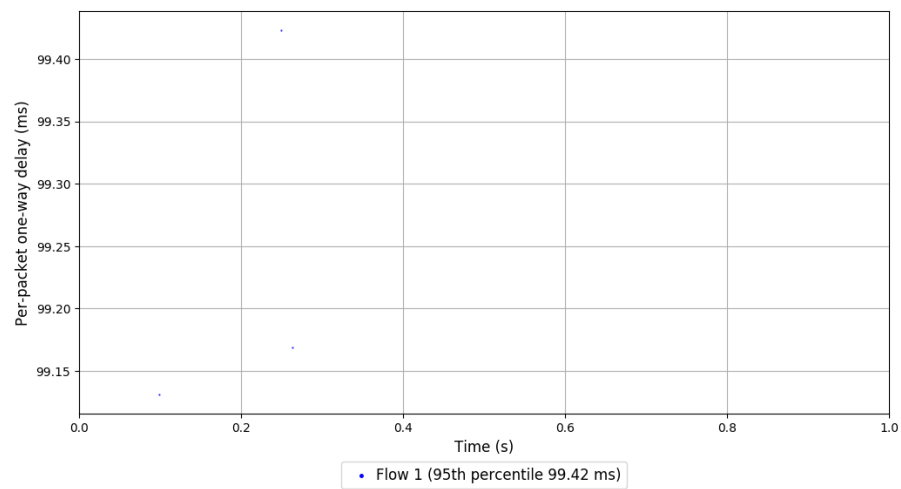
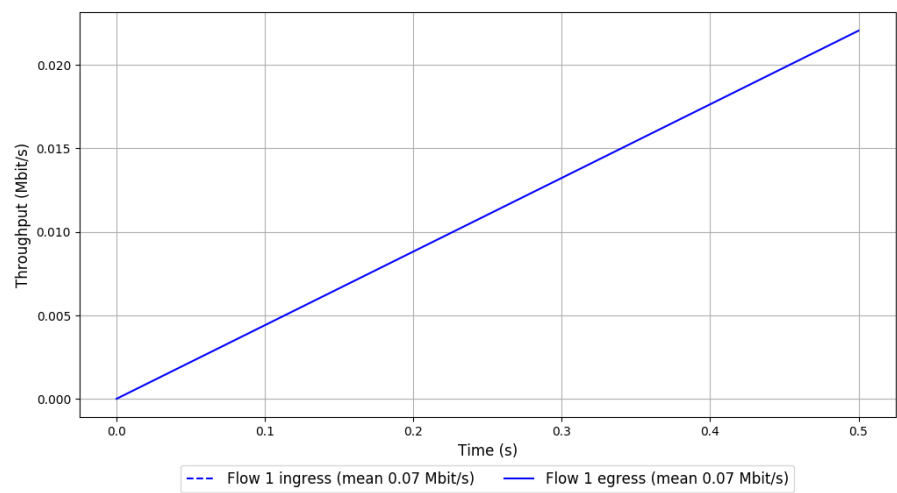
Start at: 2018-07-09 20:01:23

End at: 2018-07-09 20:01:54

Local clock offset: 1.159 ms

Remote clock offset: 0.148 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-07-09 20:23:46

End at: 2018-07-09 20:24:16

Local clock offset: 1.601 ms

Remote clock offset: -0.556 ms

Below is generated by plot.py at 2018-07-09 23:56:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.09 Mbit/s

95th percentile per-packet one-way delay: 97.429 ms

Loss rate: 1.21%

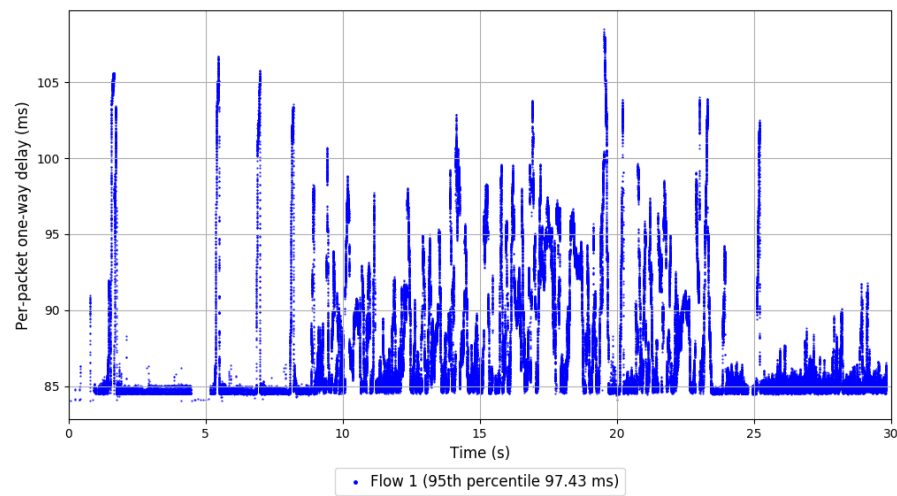
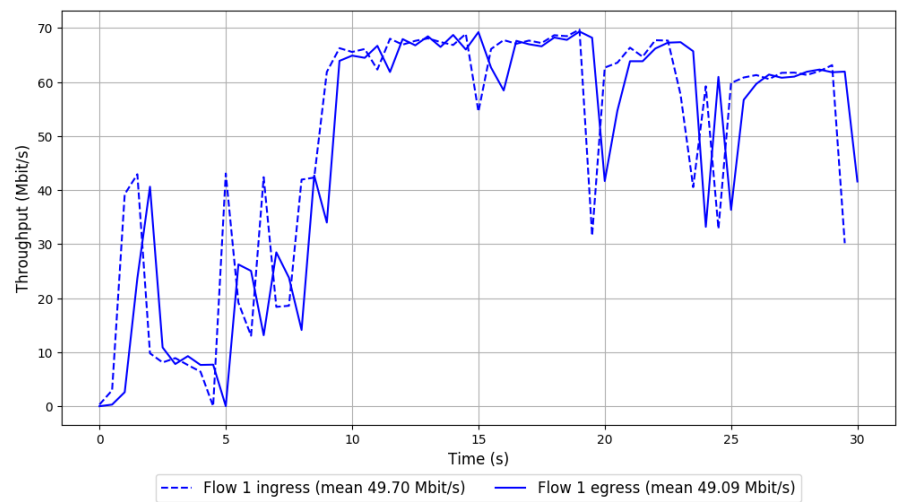
-- Flow 1:

Average throughput: 49.09 Mbit/s

95th percentile per-packet one-way delay: 97.429 ms

Loss rate: 1.21%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-07-09 20:51:24

End at: 2018-07-09 20:51:54

Local clock offset: 0.928 ms

Remote clock offset: -0.994 ms

Below is generated by plot.py at 2018-07-09 23:56:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.44 Mbit/s

95th percentile per-packet one-way delay: 114.113 ms

Loss rate: 1.33%

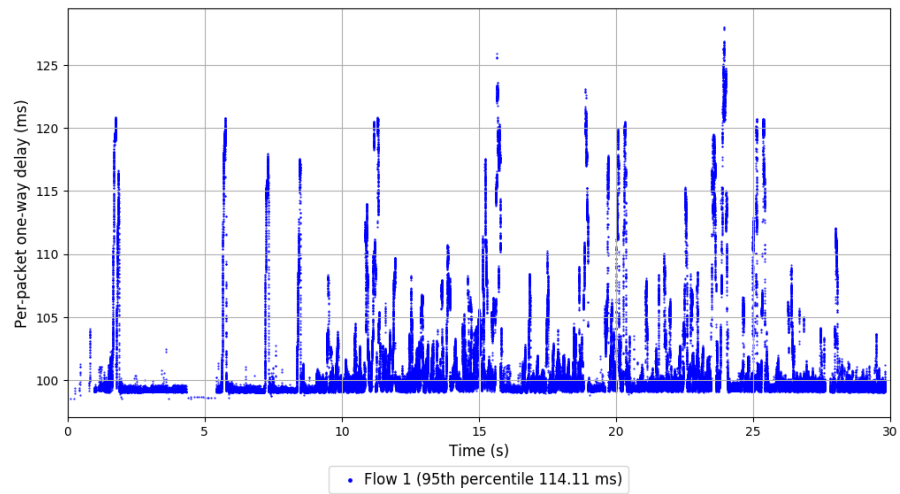
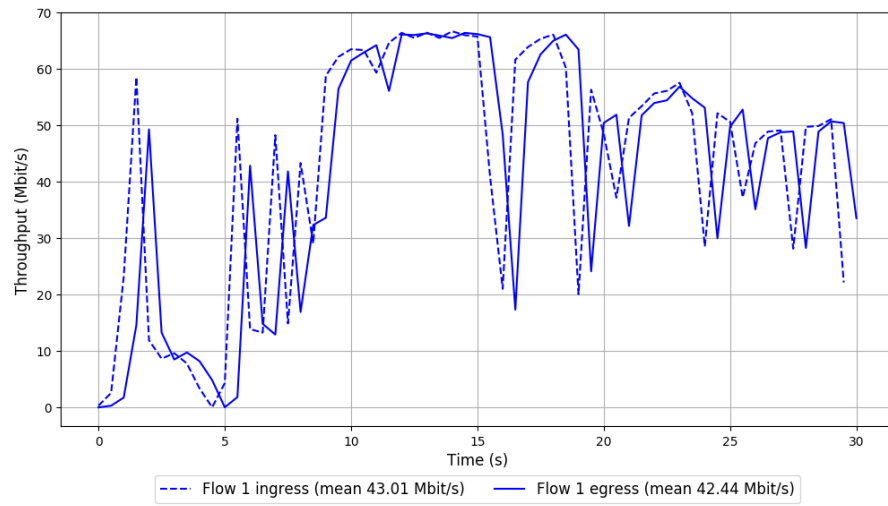
-- Flow 1:

Average throughput: 42.44 Mbit/s

95th percentile per-packet one-way delay: 114.113 ms

Loss rate: 1.33%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-07-09 21:13:49

End at: 2018-07-09 21:14:19

Local clock offset: 1.229 ms

Remote clock offset: -0.764 ms

Below is generated by plot.py at 2018-07-09 23:56:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.48 Mbit/s

95th percentile per-packet one-way delay: 97.837 ms

Loss rate: 1.37%

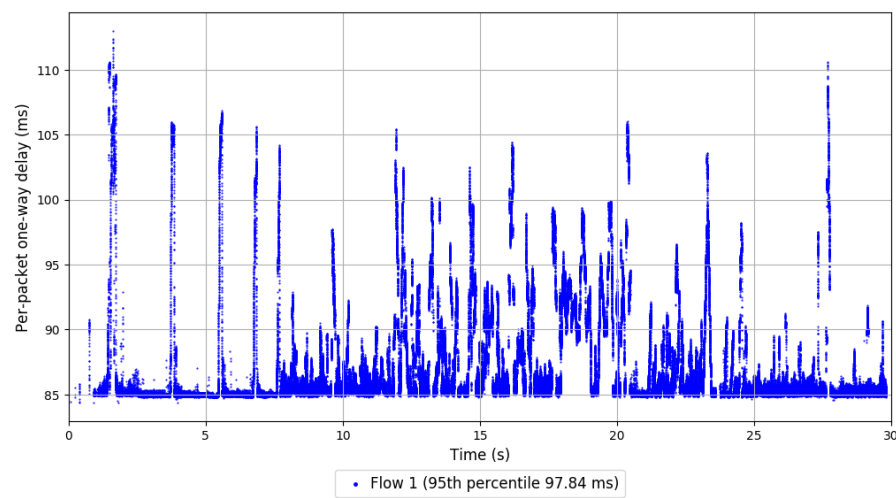
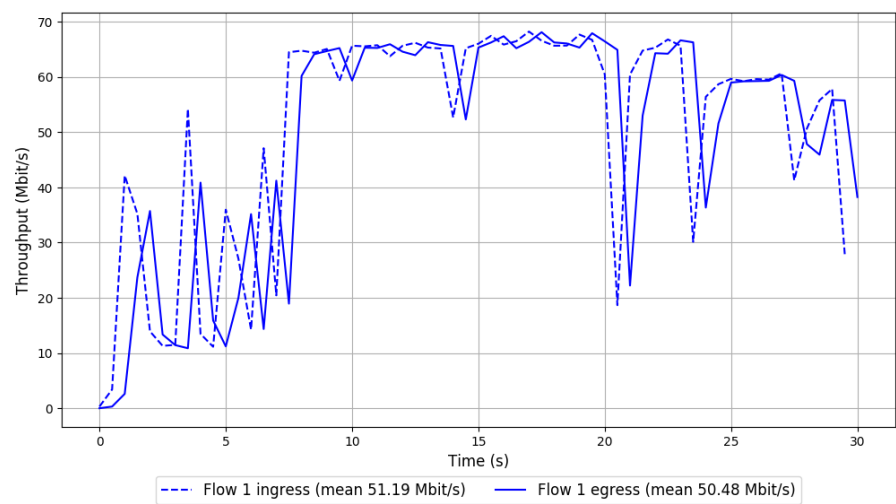
-- Flow 1:

Average throughput: 50.48 Mbit/s

95th percentile per-packet one-way delay: 97.837 ms

Loss rate: 1.37%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-07-09 21:36:11

End at: 2018-07-09 21:36:41

Local clock offset: 1.445 ms

Remote clock offset: -0.26 ms

Below is generated by plot.py at 2018-07-09 23:56:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.01 Mbit/s

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

Loss rate: 1.15%

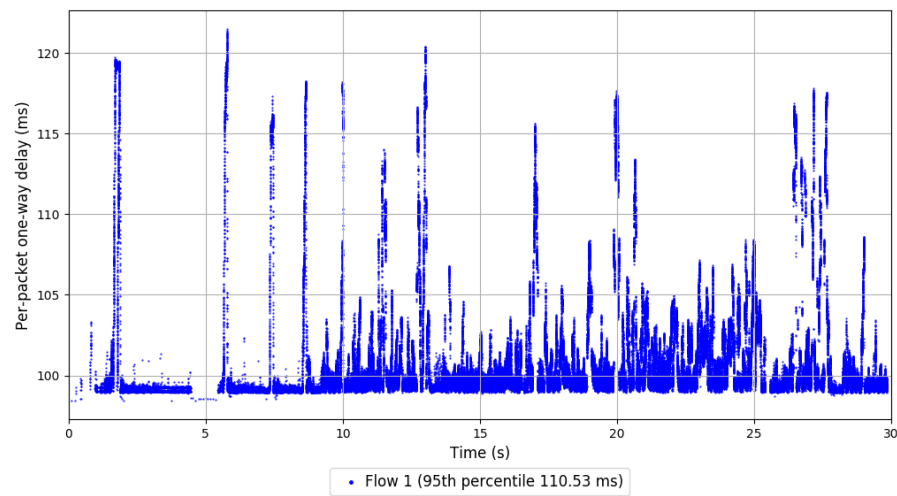
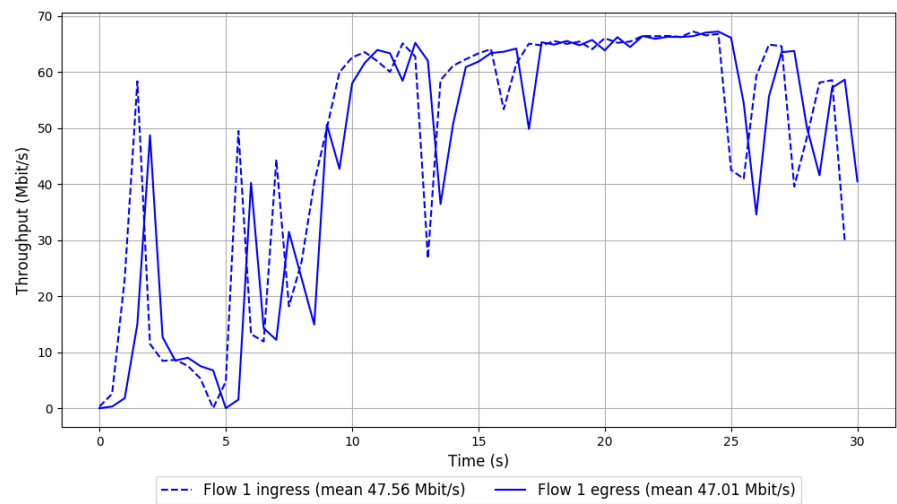
-- Flow 1:

Average throughput: 47.01 Mbit/s

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

Loss rate: 1.15%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-09 21:58:45

End at: 2018-07-09 21:59:15

Local clock offset: 1.211 ms

Remote clock offset: 0.156 ms

Below is generated by plot.py at 2018-07-09 23:56:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.44 Mbit/s

95th percentile per-packet one-way delay: 96.800 ms

Loss rate: 1.40%

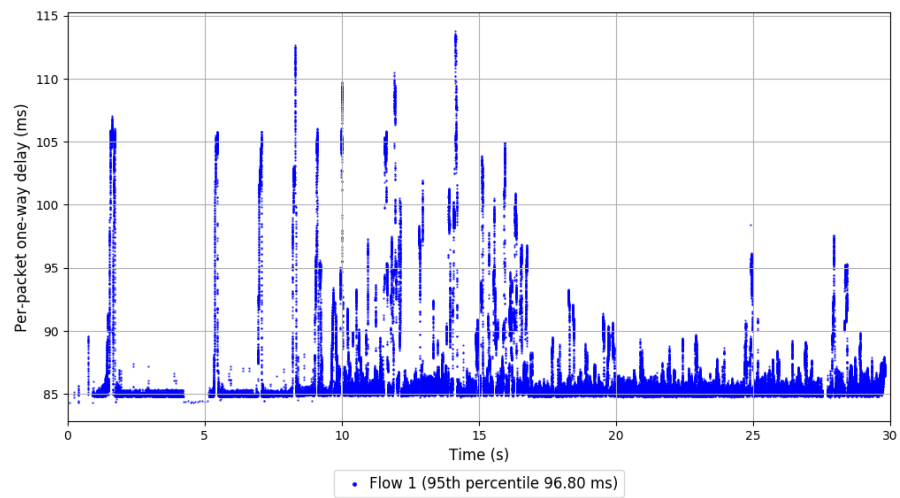
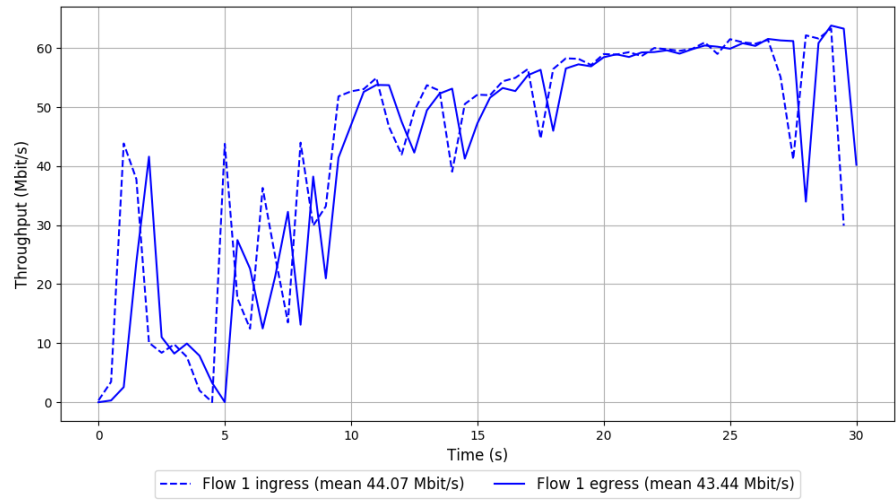
-- Flow 1:

Average throughput: 43.44 Mbit/s

95th percentile per-packet one-way delay: 96.800 ms

Loss rate: 1.40%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-09 22:21:11

End at: 2018-07-09 22:21:41

Local clock offset: 1.452 ms

Remote clock offset: 0.953 ms

Below is generated by plot.py at 2018-07-09 23:56:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.48 Mbit/s

95th percentile per-packet one-way delay: 109.272 ms

Loss rate: 0.90%

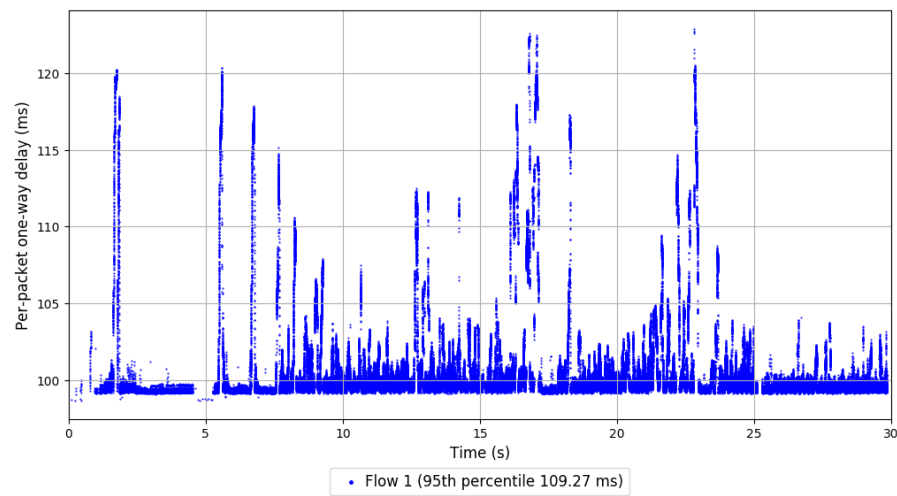
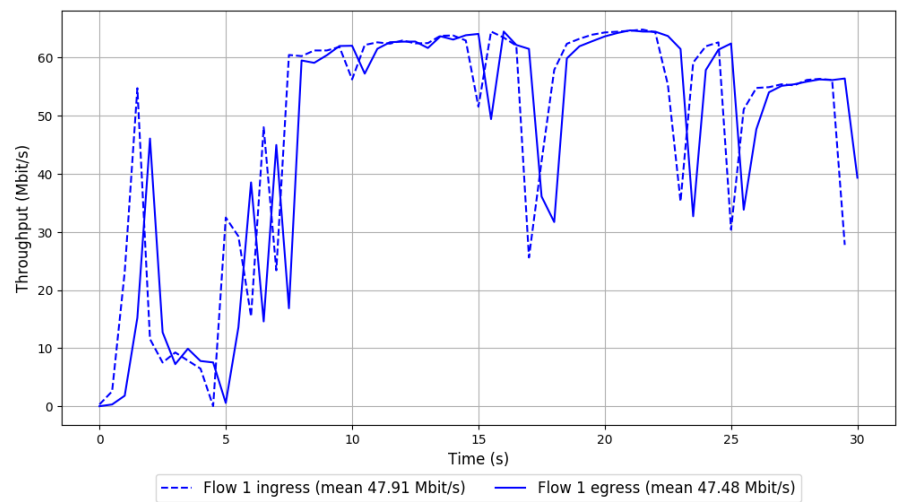
-- Flow 1:

Average throughput: 47.48 Mbit/s

95th percentile per-packet one-way delay: 109.272 ms

Loss rate: 0.90%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-09 22:43:38

End at: 2018-07-09 22:44:08

Local clock offset: 1.551 ms

Remote clock offset: 0.528 ms

Below is generated by plot.py at 2018-07-09 23:56:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.43 Mbit/s

95th percentile per-packet one-way delay: 116.620 ms

Loss rate: 2.41%

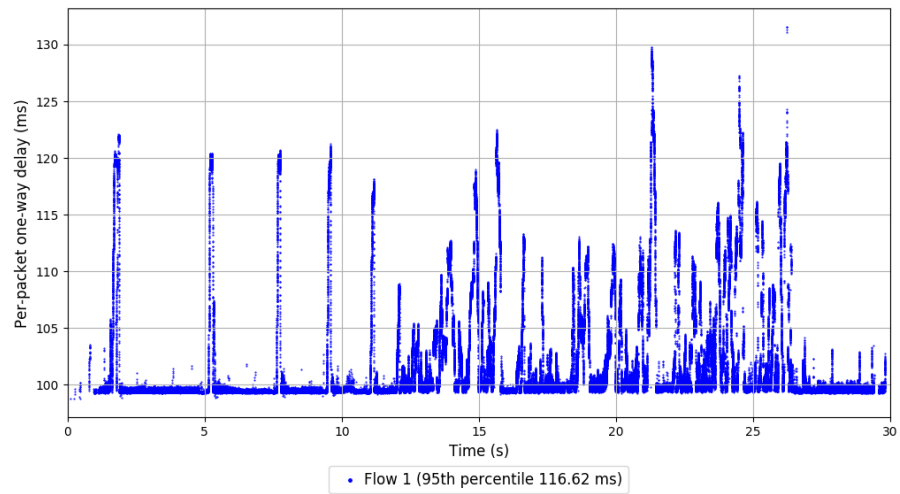
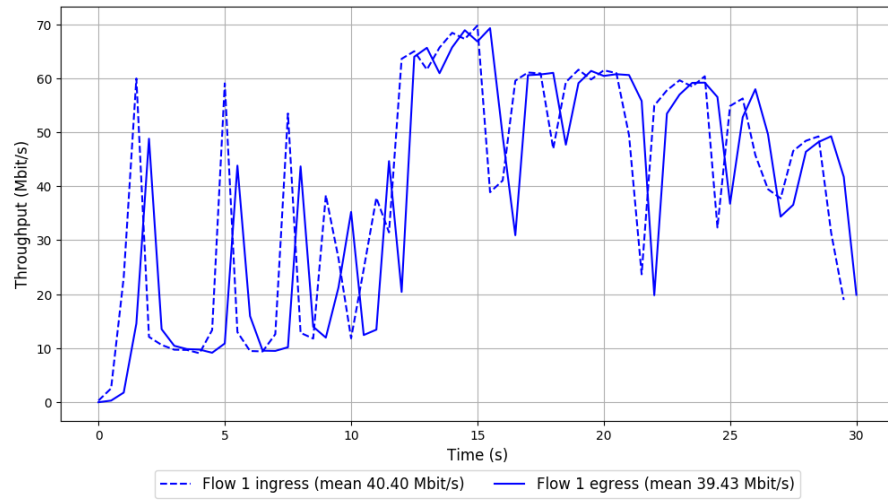
-- Flow 1:

Average throughput: 39.43 Mbit/s

95th percentile per-packet one-way delay: 116.620 ms

Loss rate: 2.41%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-09 23:06:06

End at: 2018-07-09 23:06:36

Local clock offset: 1.506 ms

Remote clock offset: 0.303 ms

Below is generated by plot.py at 2018-07-09 23:56:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.91 Mbit/s

95th percentile per-packet one-way delay: 110.198 ms

Loss rate: 1.05%

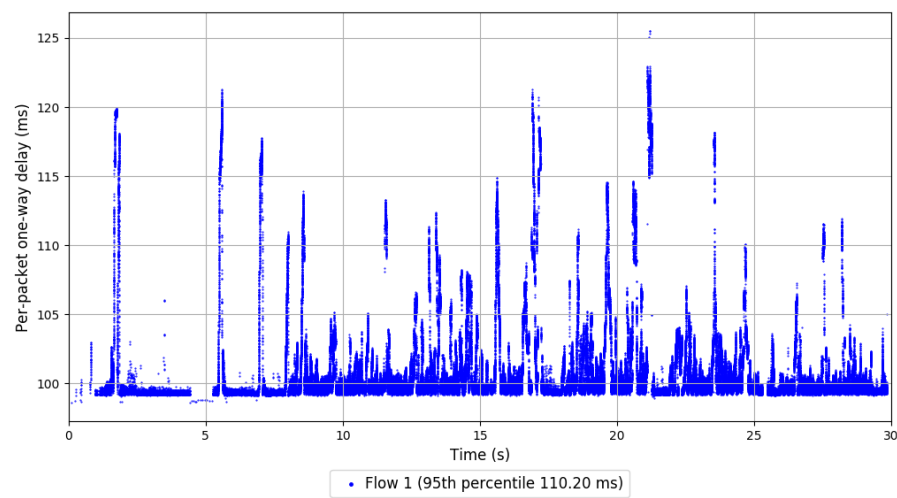
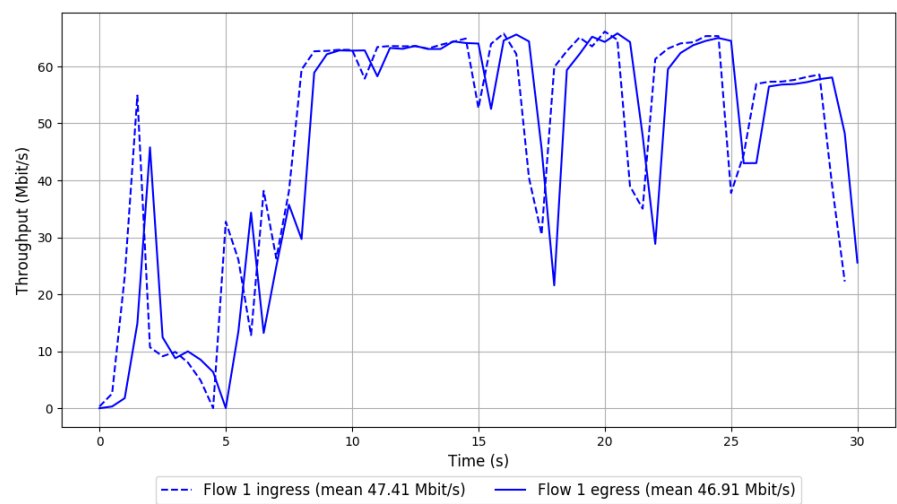
-- Flow 1:

Average throughput: 46.91 Mbit/s

95th percentile per-packet one-way delay: 110.198 ms

Loss rate: 1.05%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-09 23:28:26

End at: 2018-07-09 23:28:56

Local clock offset: 1.608 ms

Remote clock offset: -0.331 ms

Below is generated by plot.py at 2018-07-09 23:56:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.29 Mbit/s

95th percentile per-packet one-way delay: 113.611 ms

Loss rate: 1.18%

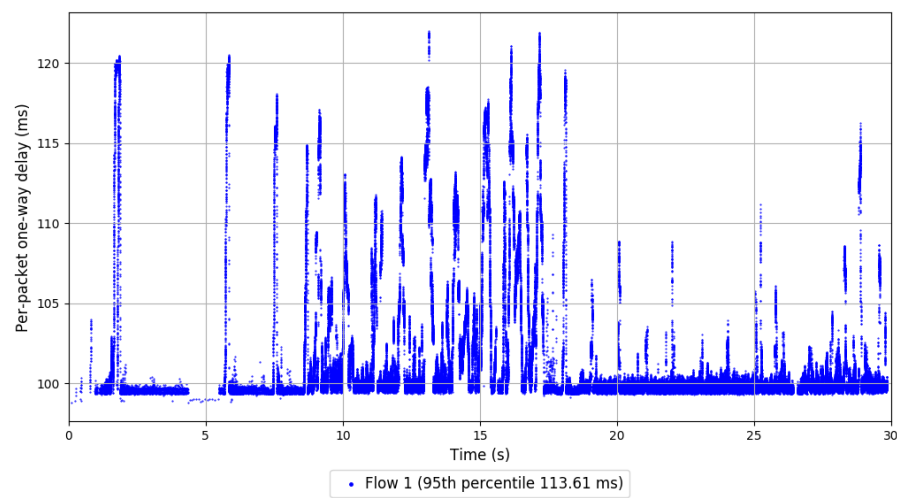
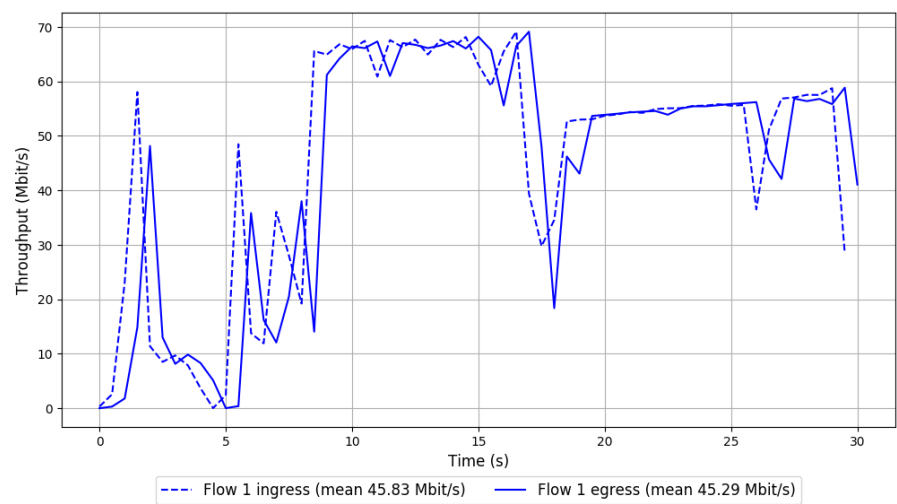
-- Flow 1:

Average throughput: 45.29 Mbit/s

95th percentile per-packet one-way delay: 113.611 ms

Loss rate: 1.18%

Run 10: Report of QUIC Cubic — Data Link

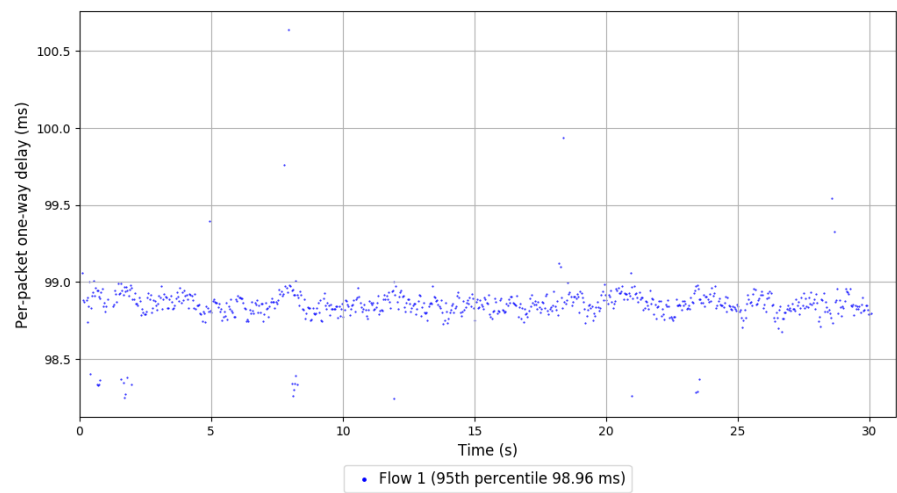
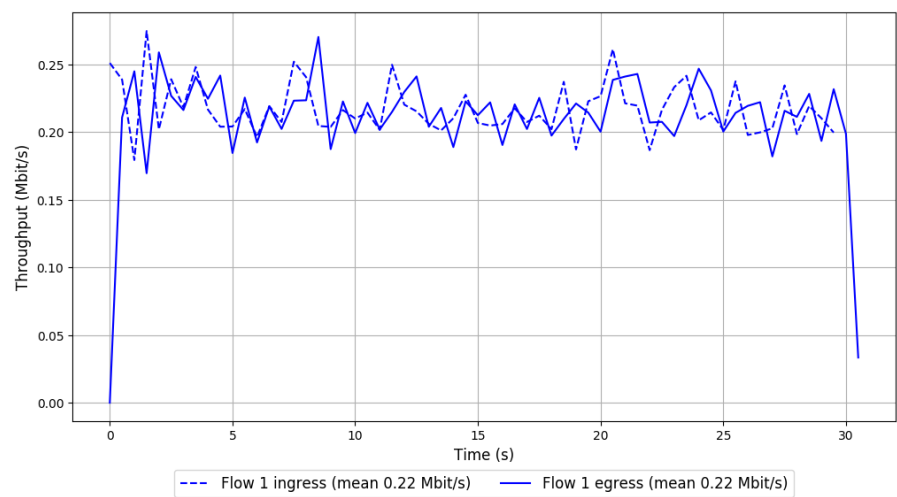


```
Run 1: Statistics of SCReAM

Start at: 2018-07-09 19:58:47
End at: 2018-07-09 19:59:17
Local clock offset: 1.299 ms
Remote clock offset: 0.113 ms

# Below is generated by plot.py at 2018-07-09 23:56:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 98.959 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 98.959 ms
Loss rate: 0.00%
```


Run 1: Report of SReAM — Data Link

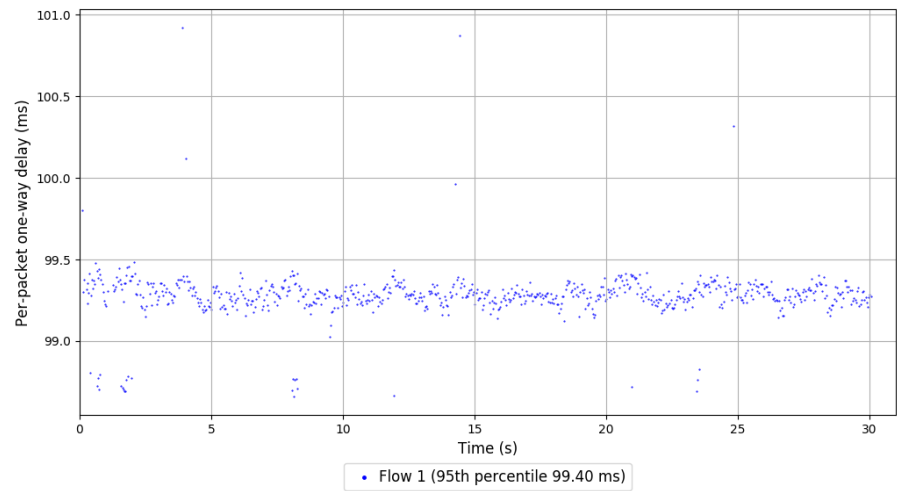
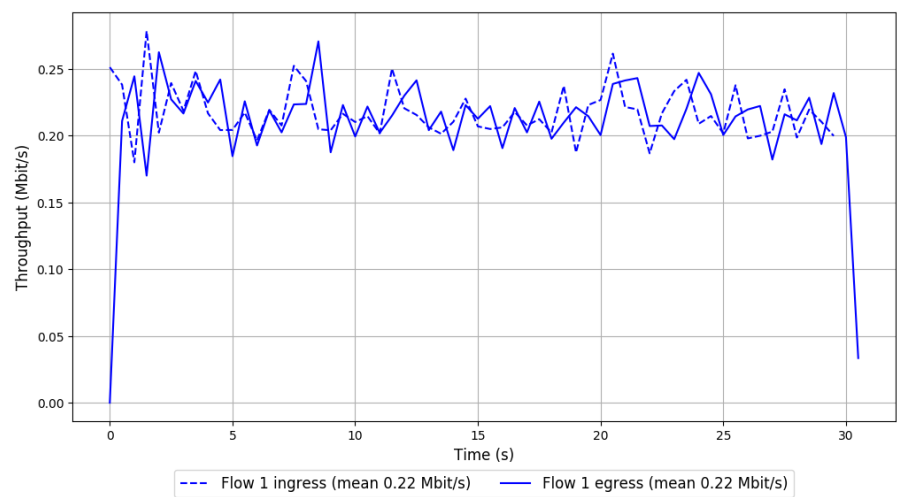


Run 2: Statistics of SCReAM

Start at: 2018-07-09 20:21:09
End at: 2018-07-09 20:21:39
Local clock offset: 1.571 ms
Remote clock offset: -0.413 ms

Below is generated by plot.py at 2018-07-09 23:56:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 99.396 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 99.396 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-07-09 20:48:47

End at: 2018-07-09 20:49:17

Local clock offset: 1.078 ms

Remote clock offset: -1.02 ms

Below is generated by plot.py at 2018-07-09 23:56:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 99.621 ms

Loss rate: 0.00%

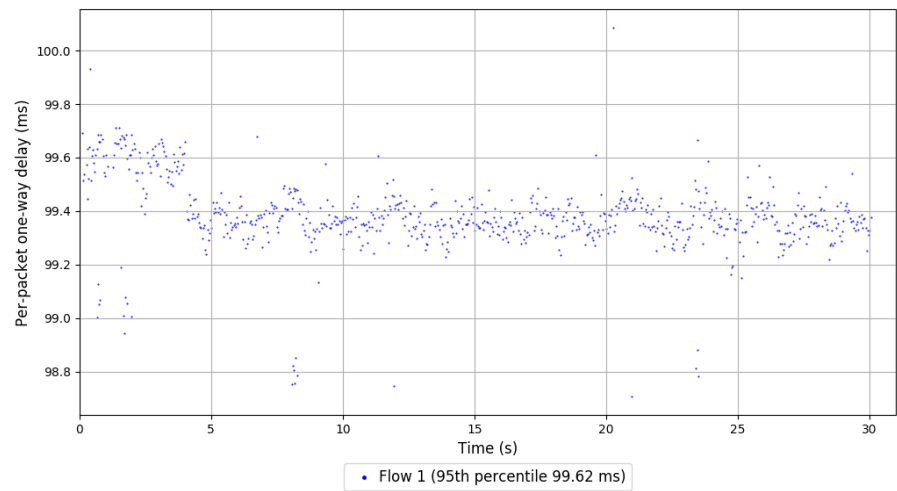
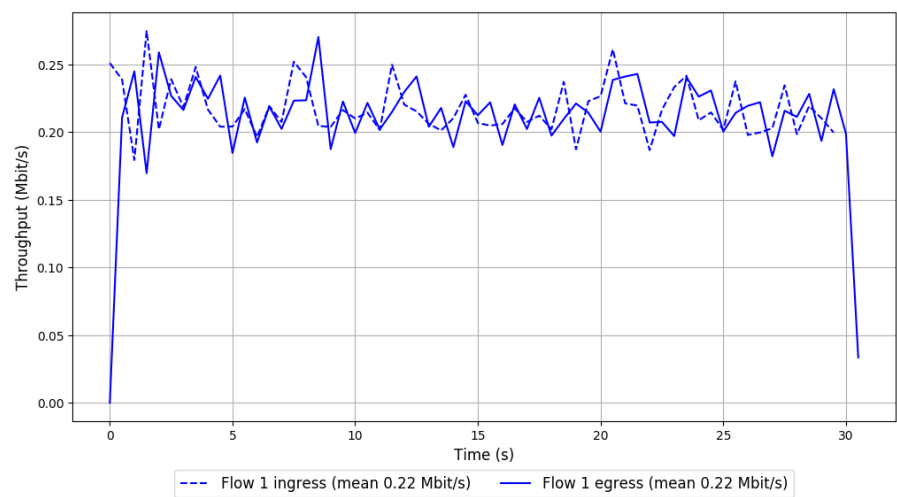
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 99.621 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

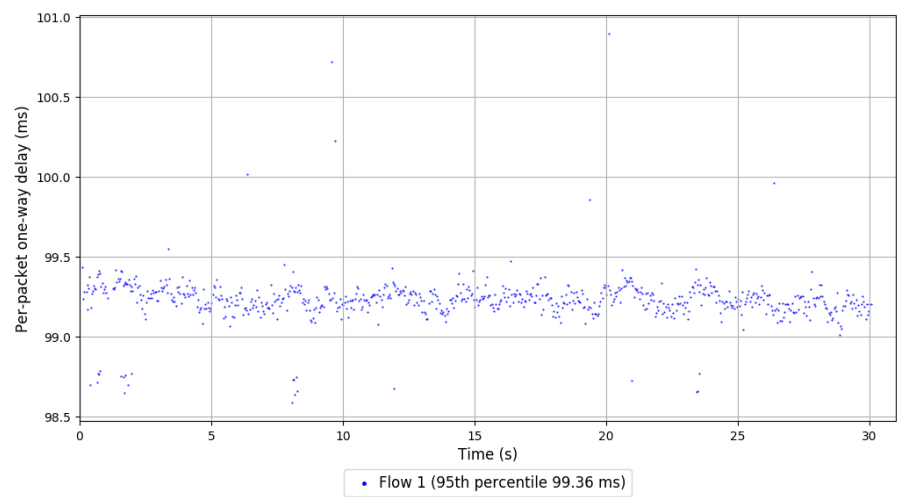
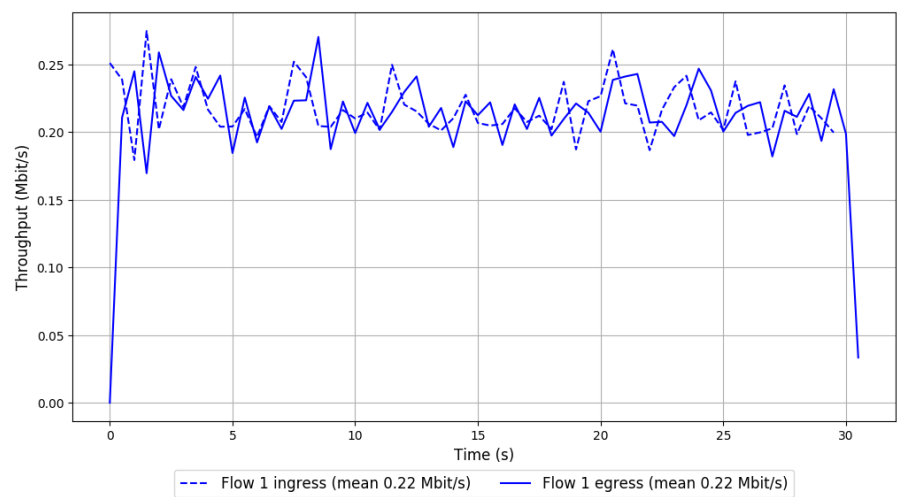


Run 4: Statistics of SCReAM

Start at: 2018-07-09 21:11:13
End at: 2018-07-09 21:11:43
Local clock offset: 1.091 ms
Remote clock offset: -0.744 ms

Below is generated by plot.py at 2018-07-09 23:56:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 99.358 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 99.358 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

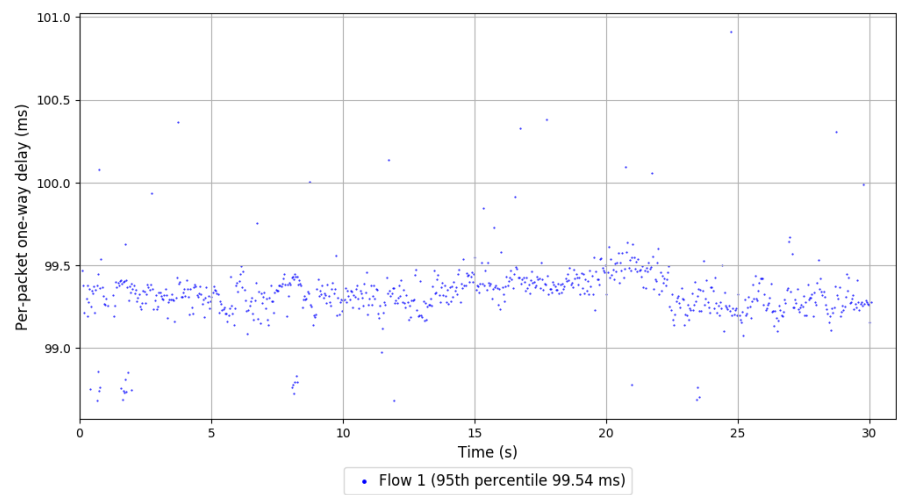
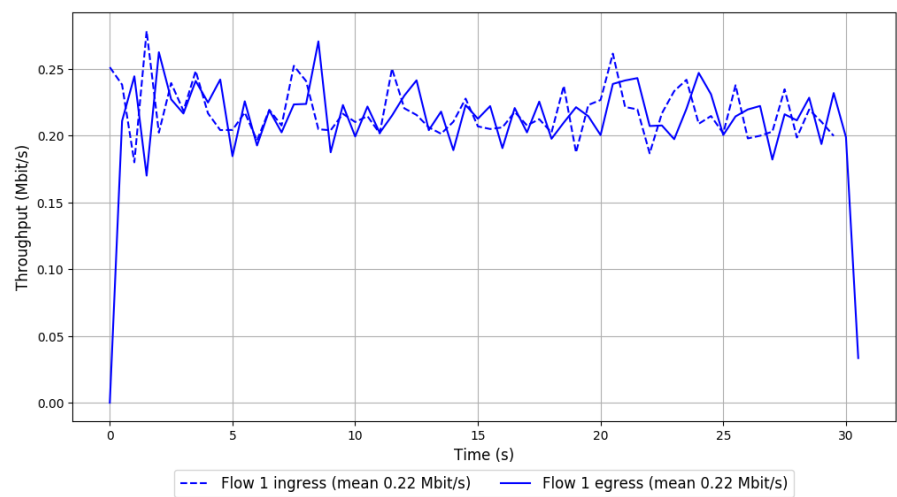


Run 5: Statistics of SCReAM

Start at: 2018-07-09 21:33:34
End at: 2018-07-09 21:34:04
Local clock offset: 1.217 ms
Remote clock offset: -0.352 ms

Below is generated by plot.py at 2018-07-09 23:56:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 99.536 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 99.536 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-07-09 21:55:56

End at: 2018-07-09 21:56:26

Local clock offset: 1.34 ms

Remote clock offset: 0.012 ms

Below is generated by plot.py at 2018-07-09 23:56:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 84.931 ms

Loss rate: 0.00%

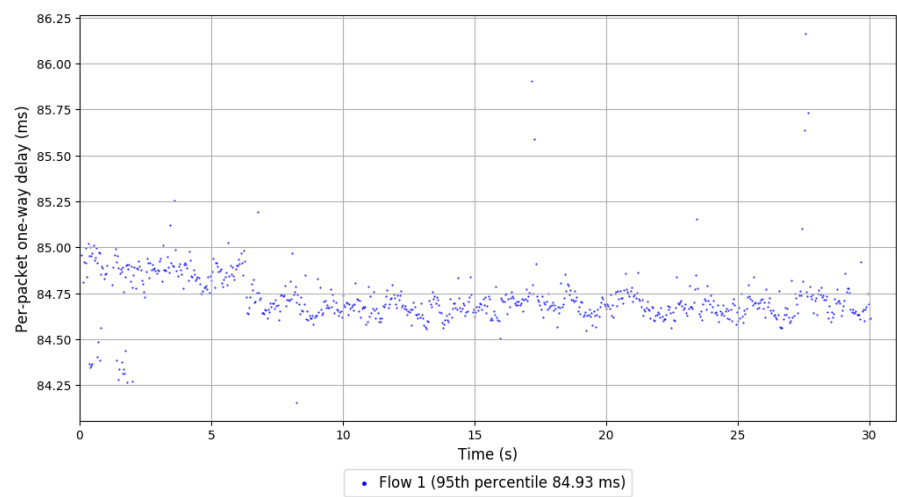
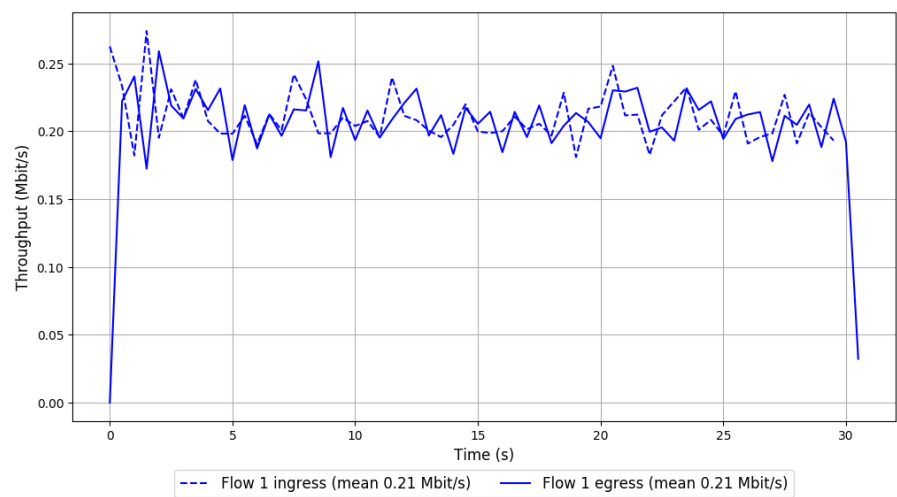
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 84.931 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

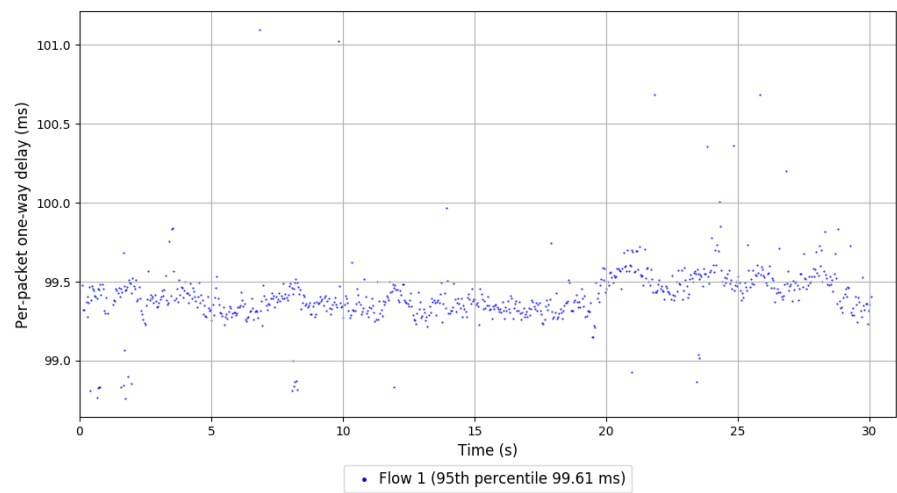
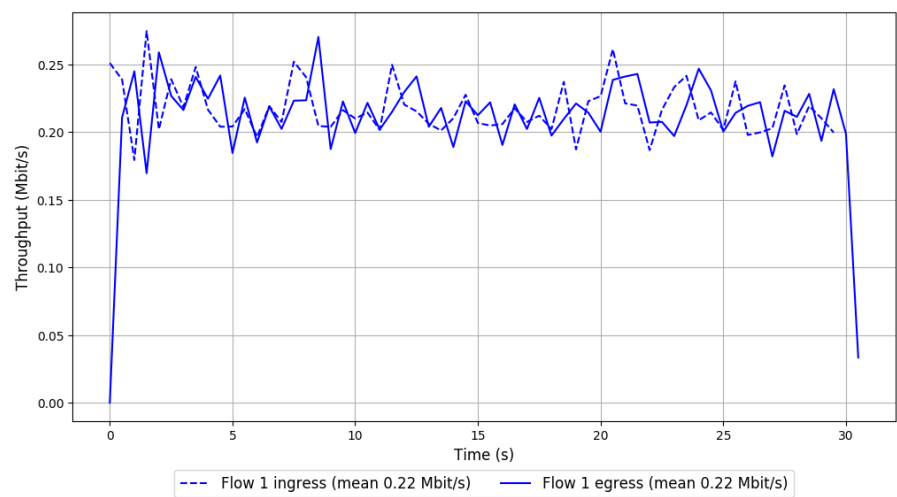


```
Run 7: Statistics of SCReAM

Start at: 2018-07-09 22:18:34
End at: 2018-07-09 22:19:04
Local clock offset: 1.393 ms
Remote clock offset: 0.915 ms

# Below is generated by plot.py at 2018-07-09 23:56:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 99.606 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 99.606 ms
Loss rate: 0.00%
```

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-07-09 22:41:01

End at: 2018-07-09 22:41:31

Local clock offset: 1.548 ms

Remote clock offset: 0.607 ms

Below is generated by plot.py at 2018-07-09 23:56:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 84.858 ms

Loss rate: 0.00%

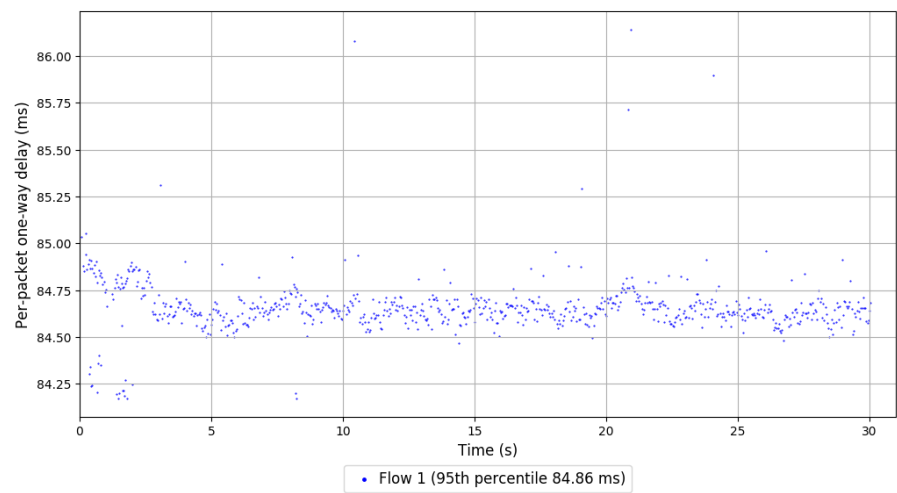
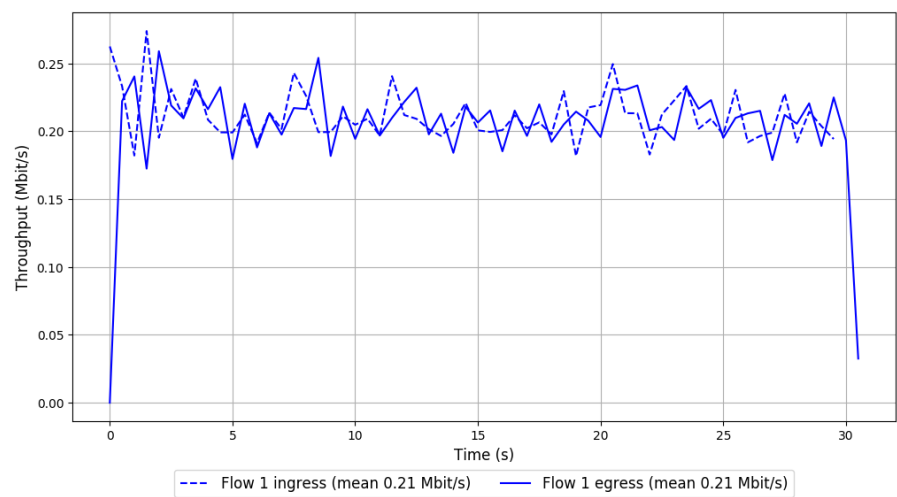
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 84.858 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-07-09 23:03:29

End at: 2018-07-09 23:03:59

Local clock offset: 1.582 ms

Remote clock offset: 0.428 ms

Below is generated by plot.py at 2018-07-09 23:56:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 99.502 ms

Loss rate: 0.00%

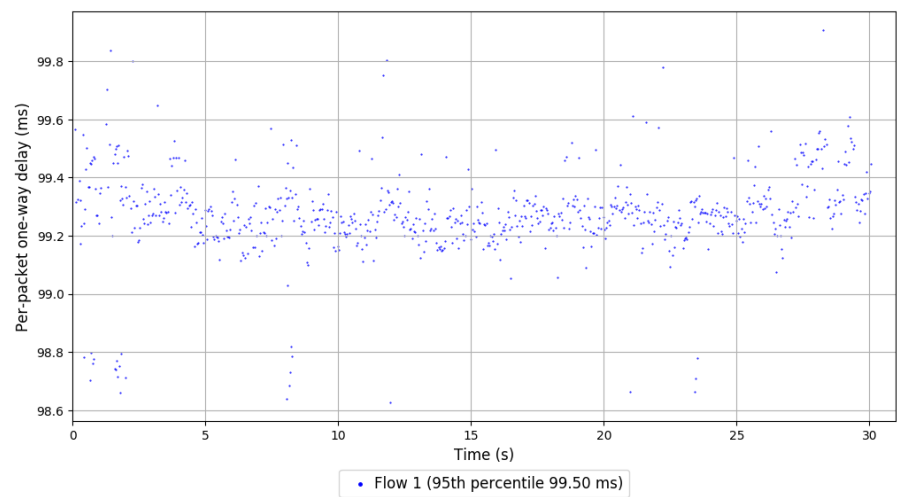
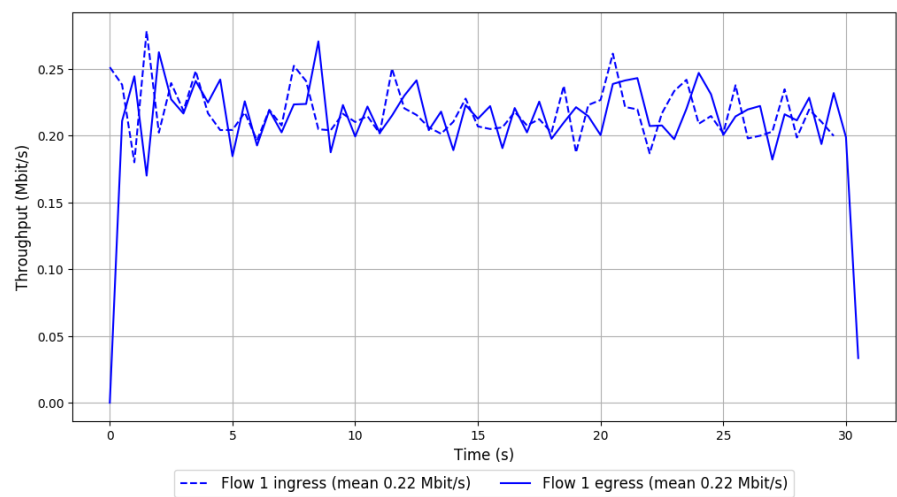
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 99.502 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

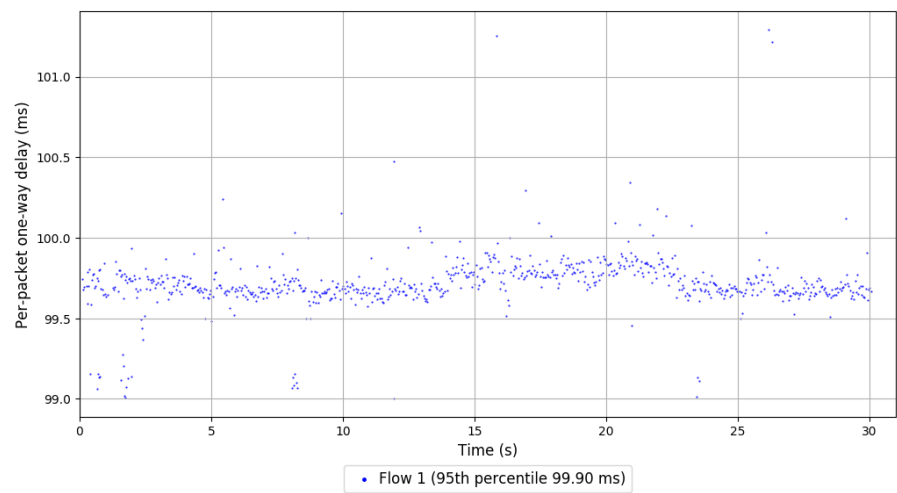
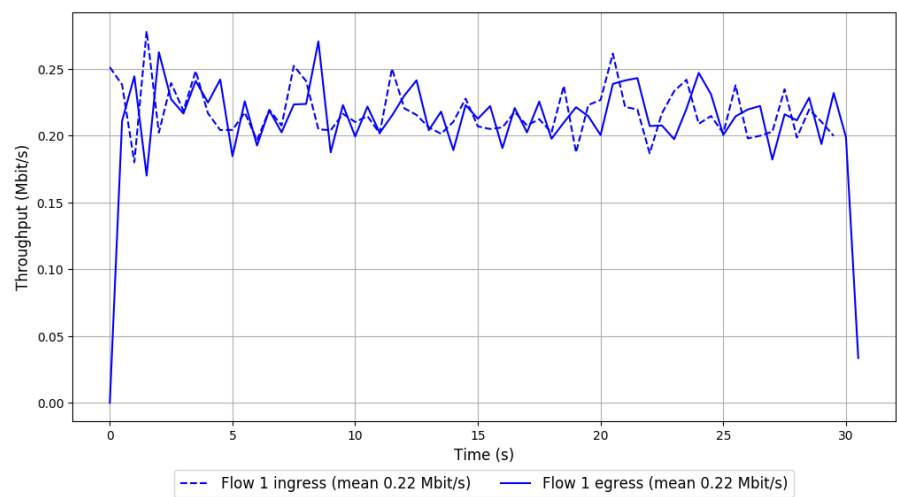


Run 10: Statistics of SReAM

Start at: 2018-07-09 23:25:49
End at: 2018-07-09 23:26:19
Local clock offset: 1.537 ms
Remote clock offset: -0.268 ms

Below is generated by plot.py at 2018-07-09 23:56:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 99.900 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 99.900 ms
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-07-09 20:11:55

End at: 2018-07-09 20:12:25

Local clock offset: 1.466 ms

Remote clock offset: 0.222 ms

Below is generated by plot.py at 2018-07-09 23:56:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 86.232 ms

Loss rate: 0.00%

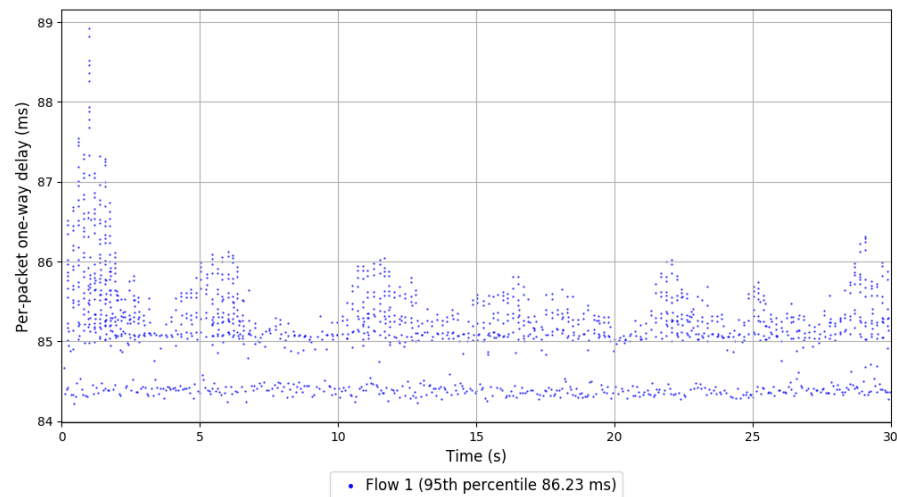
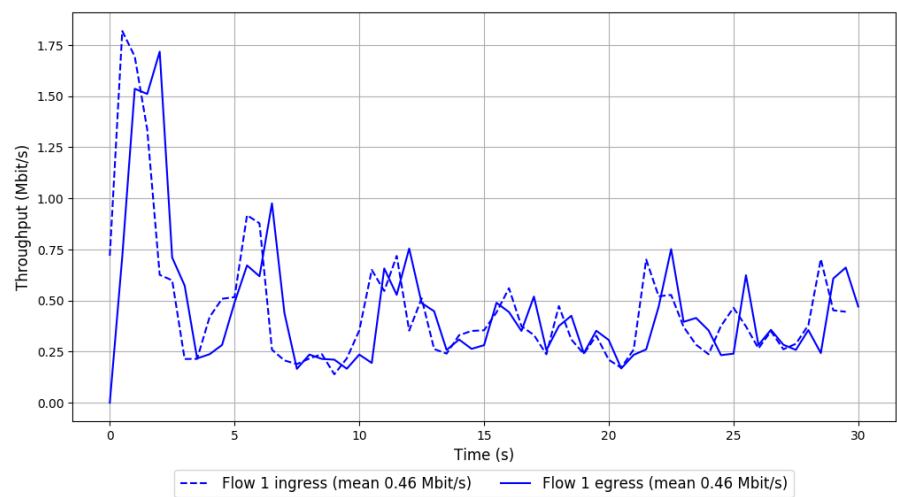
-- Flow 1:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 86.232 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

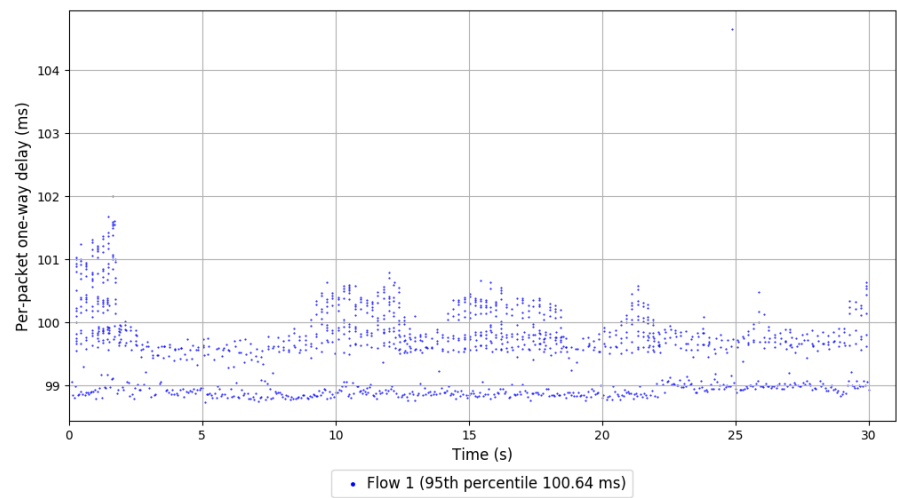
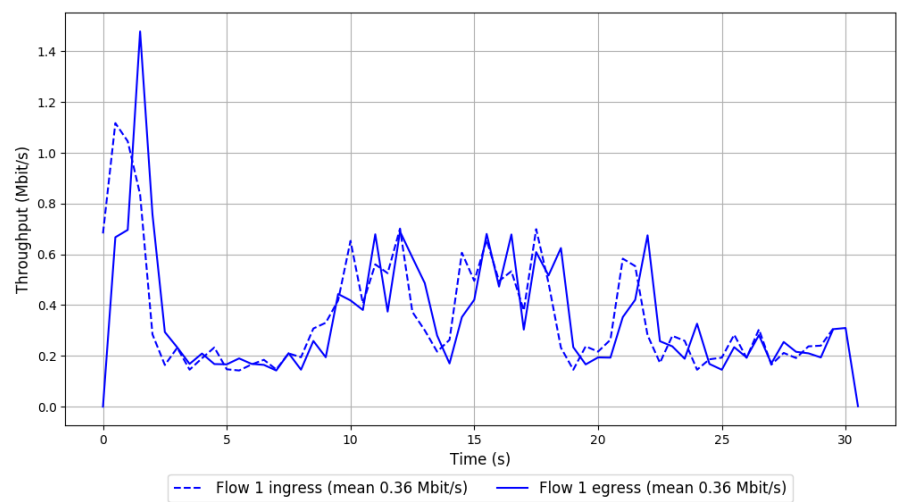


Run 2: Statistics of Sprout

Start at: 2018-07-09 20:34:19
End at: 2018-07-09 20:34:49
Local clock offset: 1.431 ms
Remote clock offset: -0.855 ms

Below is generated by plot.py at 2018-07-09 23:56:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 100.640 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 100.640 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

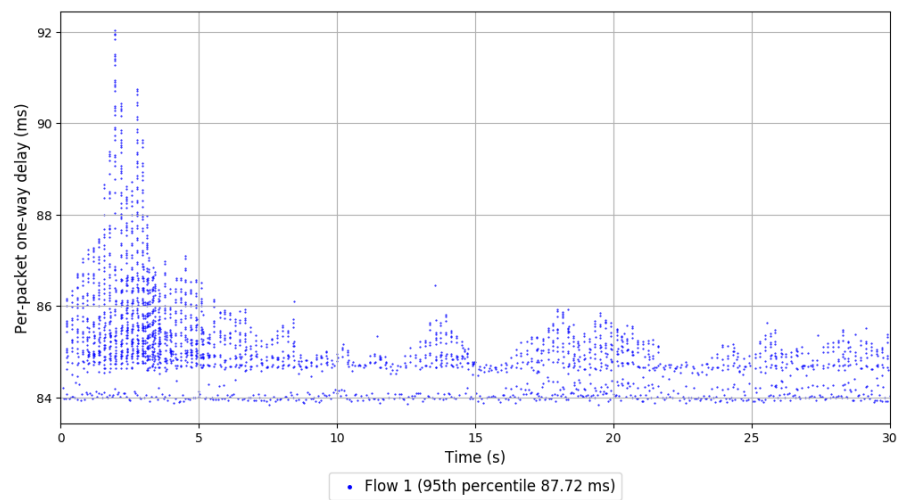
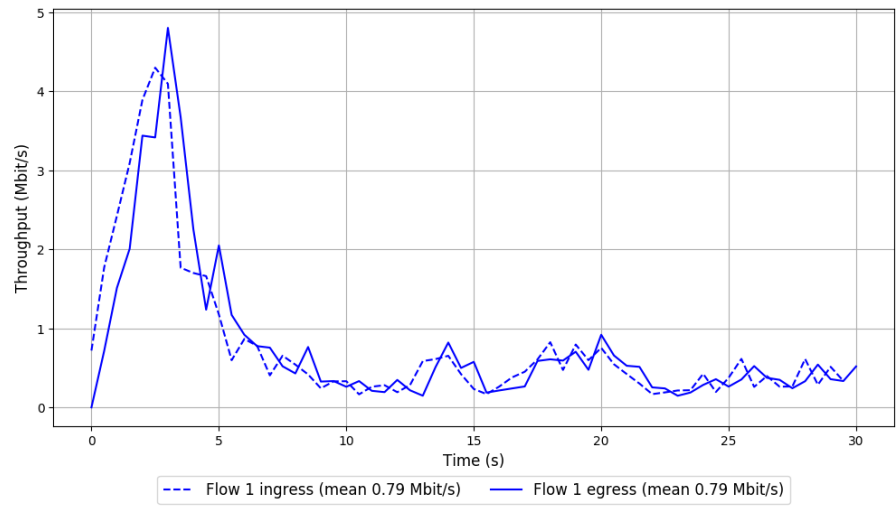


Run 3: Statistics of Sprout

Start at: 2018-07-09 21:01:58
End at: 2018-07-09 21:02:28
Local clock offset: 1.155 ms
Remote clock offset: -0.766 ms

Below is generated by plot.py at 2018-07-09 23:56:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.79 Mbit/s
95th percentile per-packet one-way delay: 87.718 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.79 Mbit/s
95th percentile per-packet one-way delay: 87.718 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

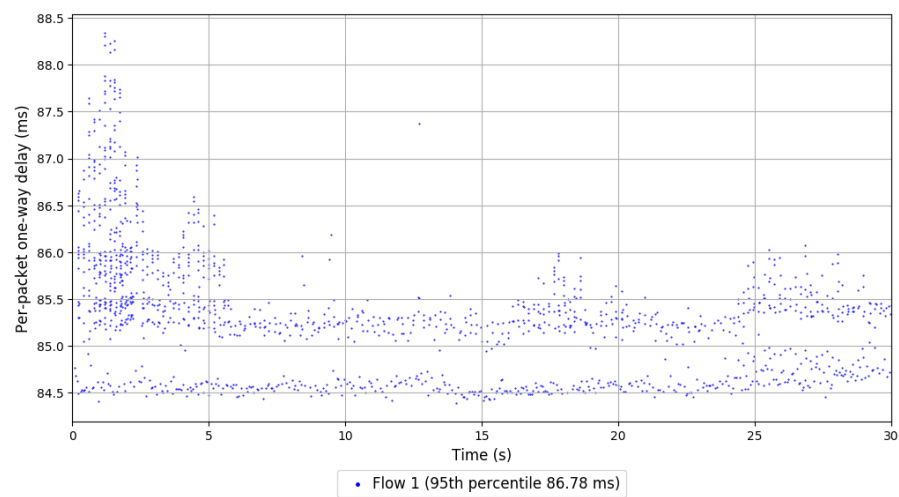
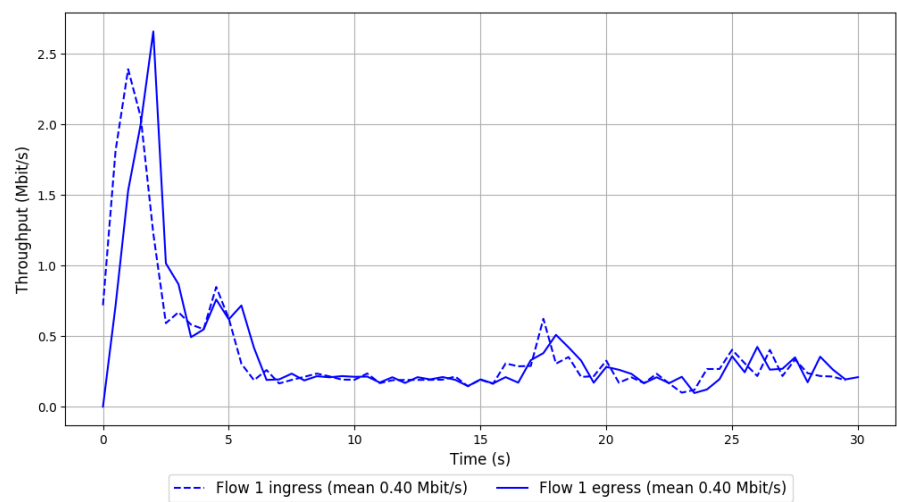


Run 4: Statistics of Sprout

Start at: 2018-07-09 21:24:23
End at: 2018-07-09 21:24:53
Local clock offset: 0.984 ms
Remote clock offset: -0.592 ms

Below is generated by plot.py at 2018-07-09 23:56:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 86.779 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 86.779 ms
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

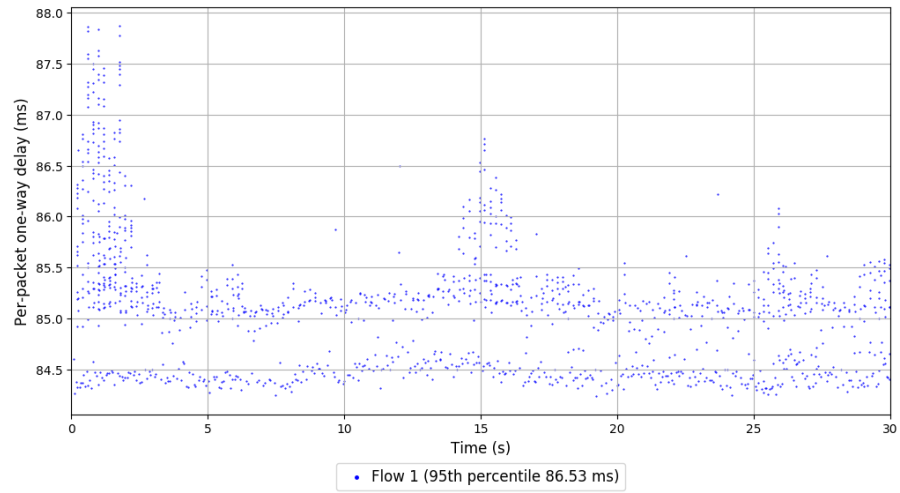
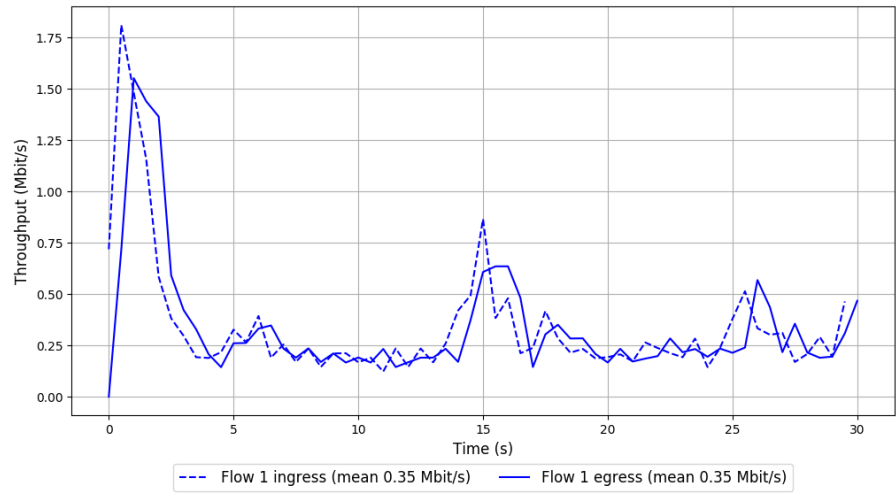


Run 5: Statistics of Sprout

Start at: 2018-07-09 21:46:45
End at: 2018-07-09 21:47:15
Local clock offset: 1.391 ms
Remote clock offset: -0.094 ms

Below is generated by plot.py at 2018-07-09 23:56:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 86.529 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 86.529 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-07-09 22:09:19

End at: 2018-07-09 22:09:49

Local clock offset: 1.526 ms

Remote clock offset: 0.667 ms

Below is generated by plot.py at 2018-07-09 23:56:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 86.241 ms

Loss rate: 0.00%

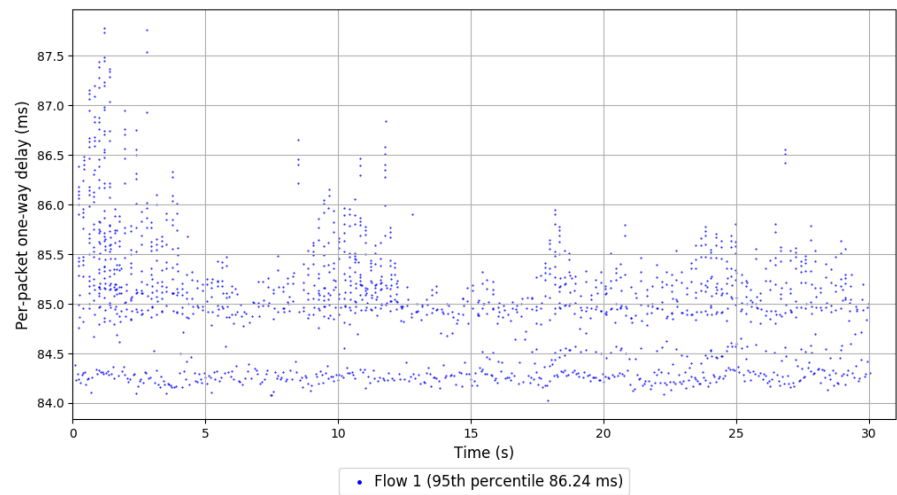
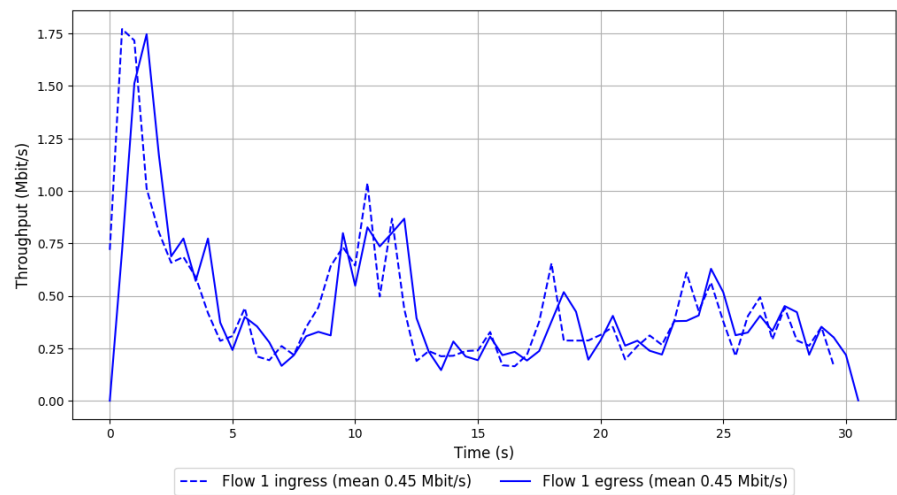
-- Flow 1:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 86.241 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-07-09 22:31:47

End at: 2018-07-09 22:32:17

Local clock offset: 1.427 ms

Remote clock offset: 1.076 ms

Below is generated by plot.py at 2018-07-09 23:56:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 101.079 ms

Loss rate: 0.00%

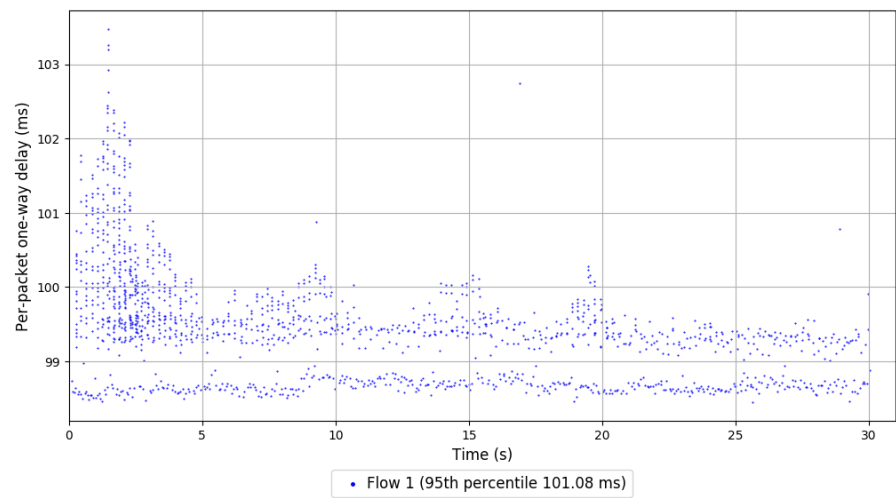
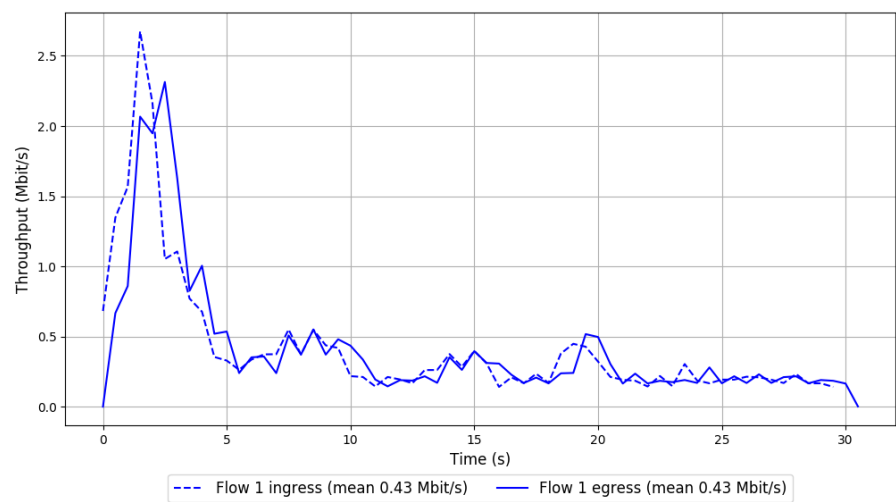
-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 101.079 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-07-09 22:54:14

End at: 2018-07-09 22:54:44

Local clock offset: 1.649 ms

Remote clock offset: 0.474 ms

Below is generated by plot.py at 2018-07-09 23:56:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 86.591 ms

Loss rate: 0.00%

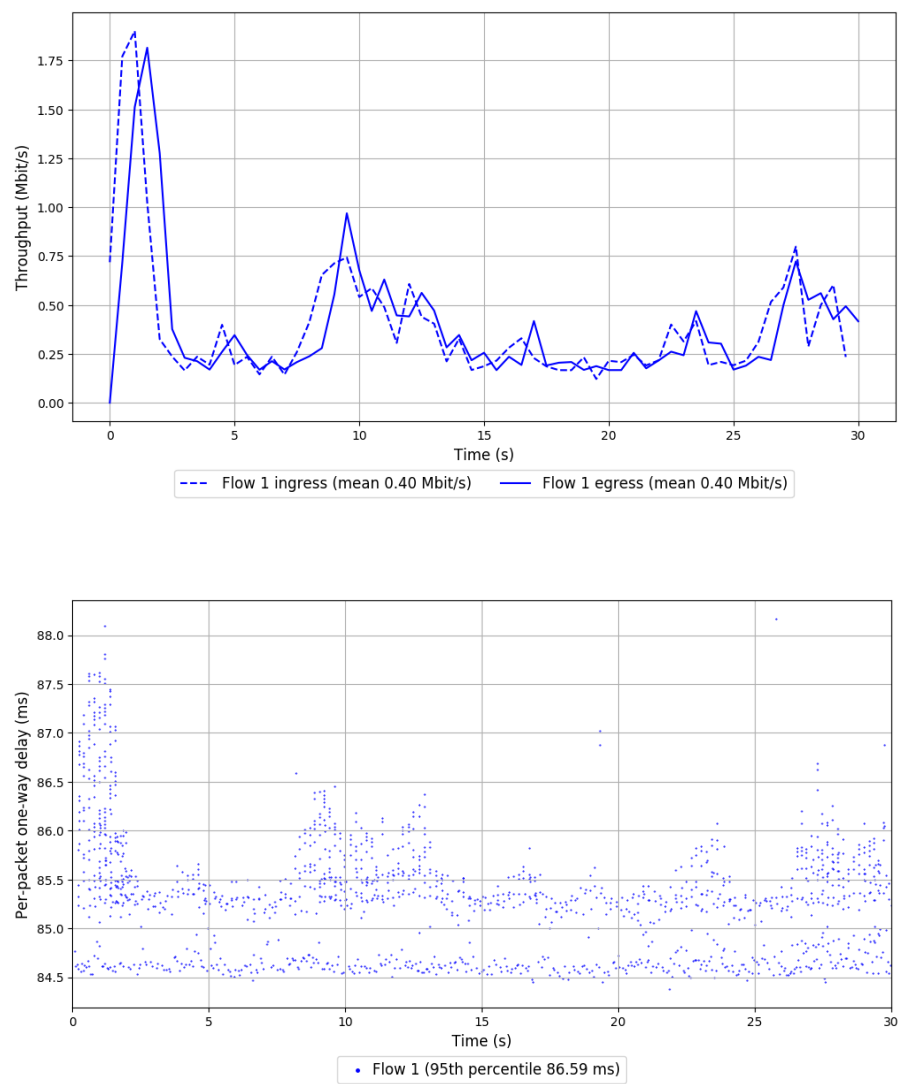
-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 86.591 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

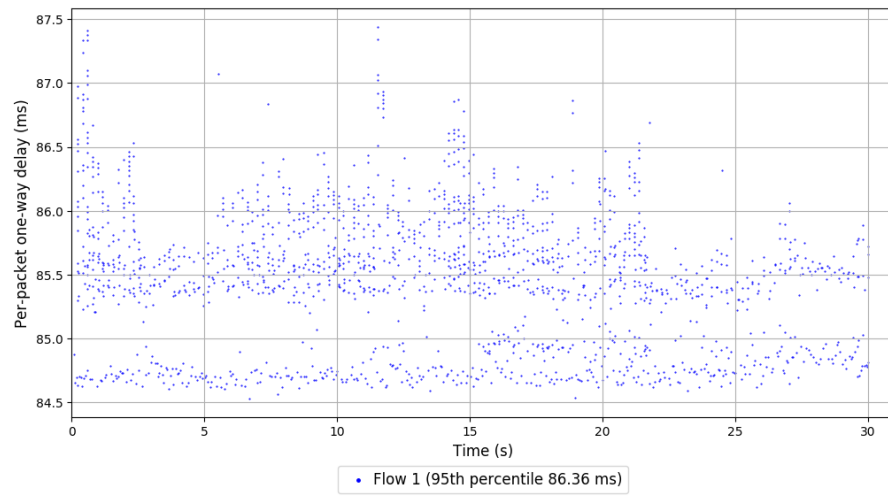
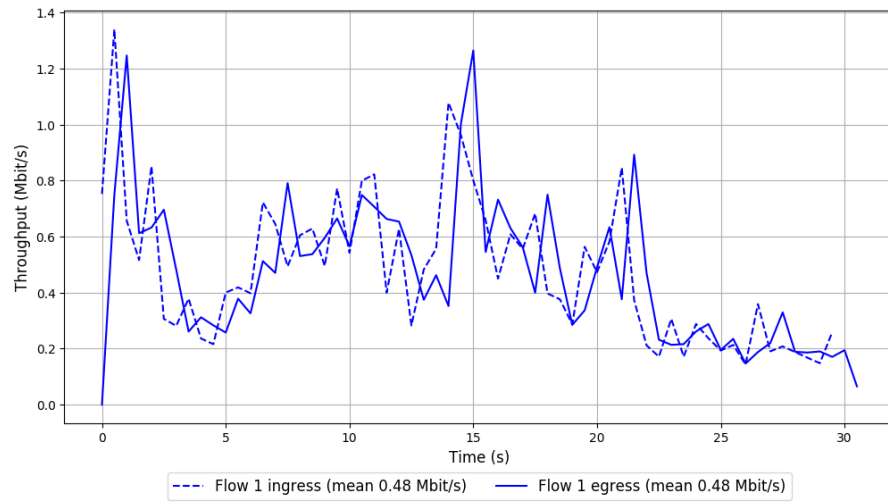


Run 9: Statistics of Sprout

Start at: 2018-07-09 23:16:38
End at: 2018-07-09 23:17:08
Local clock offset: 1.607 ms
Remote clock offset: -0.099 ms

Below is generated by plot.py at 2018-07-09 23:56:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 86.362 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 86.362 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

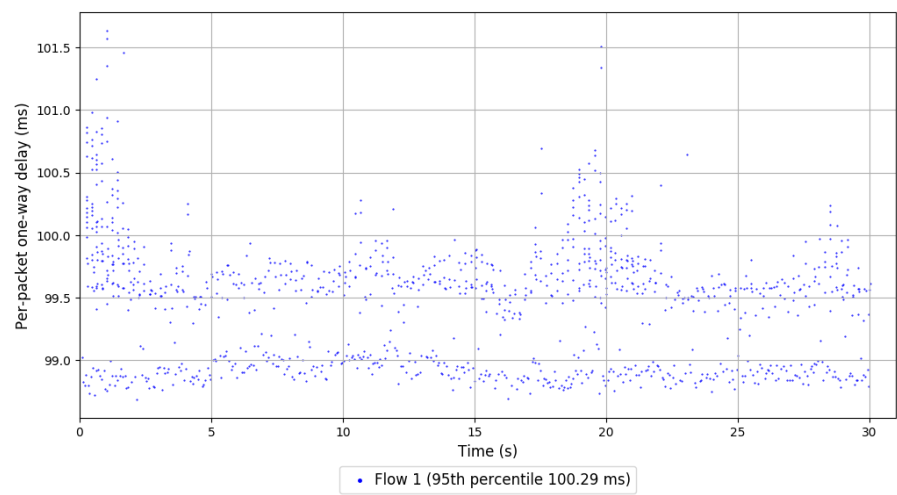
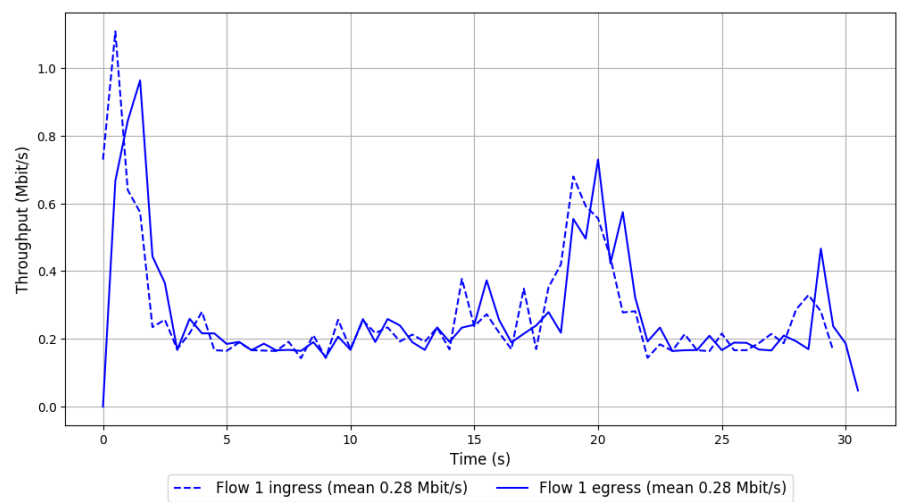


Run 10: Statistics of Sprout

Start at: 2018-07-09 23:39:00
End at: 2018-07-09 23:39:30
Local clock offset: 1.48 ms
Remote clock offset: -0.433 ms

Below is generated by plot.py at 2018-07-09 23:56:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 100.294 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 100.294 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

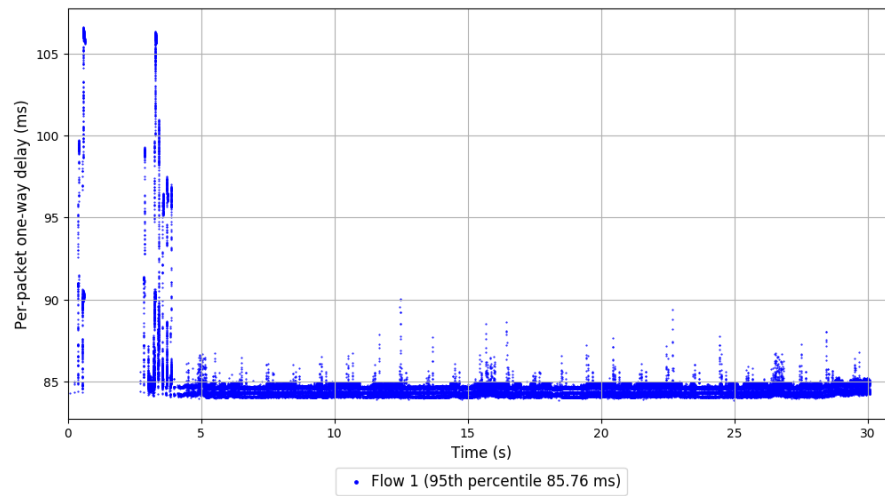
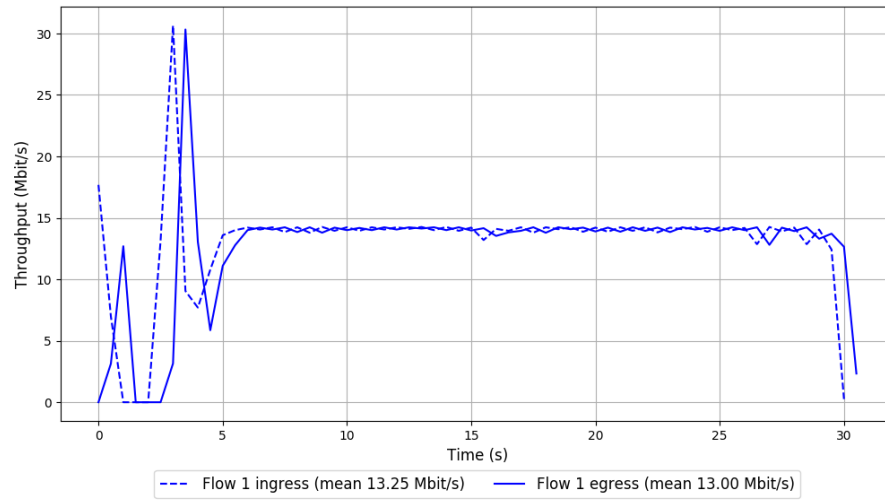


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-07-09 20:13:11
End at: 2018-07-09 20:13:41
Local clock offset: 1.605 ms
Remote clock offset: 0.266 ms

# Below is generated by plot.py at 2018-07-09 23:56:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.00 Mbit/s
95th percentile per-packet one-way delay: 85.759 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 13.00 Mbit/s
95th percentile per-packet one-way delay: 85.759 ms
Loss rate: 1.89%
```


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



Run 2: Statistics of TaoVA-100x

Start at: 2018-07-09 20:35:34

End at: 2018-07-09 20:36:05

Local clock offset: 1.343 ms

Remote clock offset: -0.857 ms

Below is generated by plot.py at 2018-07-09 23:56:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.80 Mbit/s

95th percentile per-packet one-way delay: 110.551 ms

Loss rate: 2.52%

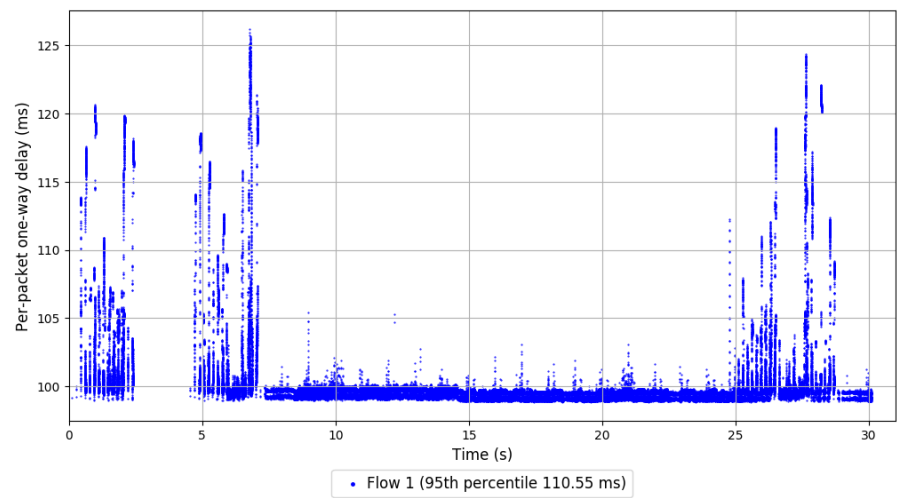
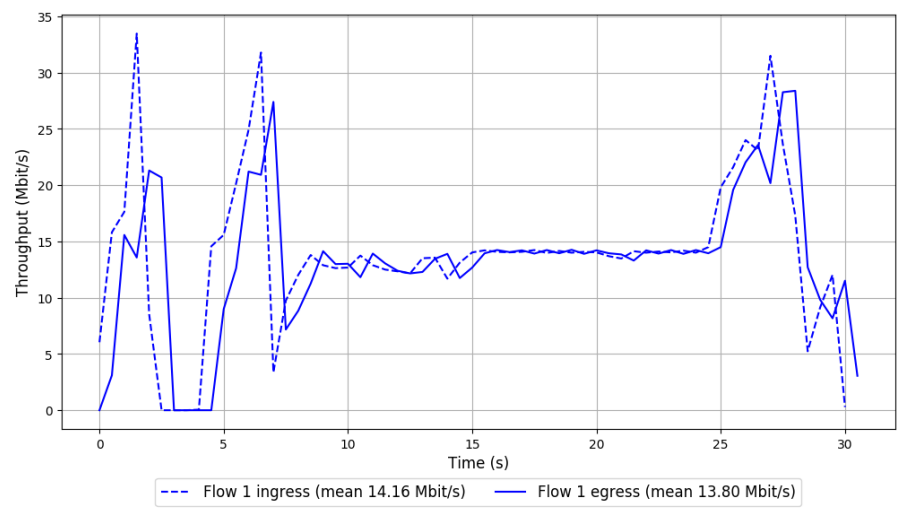
-- Flow 1:

Average throughput: 13.80 Mbit/s

95th percentile per-packet one-way delay: 110.551 ms

Loss rate: 2.52%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-07-09 21:03:14

End at: 2018-07-09 21:03:44

Local clock offset: 1.003 ms

Remote clock offset: -0.758 ms

Below is generated by plot.py at 2018-07-09 23:56:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.70 Mbit/s

95th percentile per-packet one-way delay: 101.355 ms

Loss rate: 1.31%

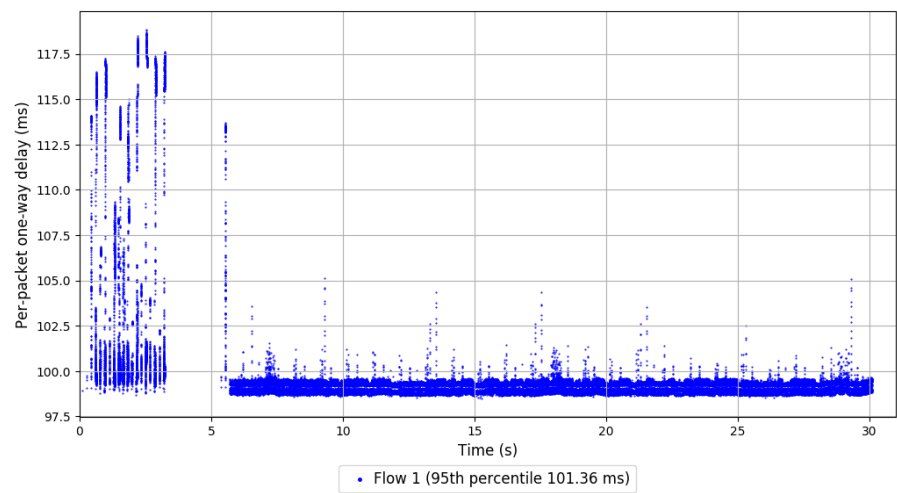
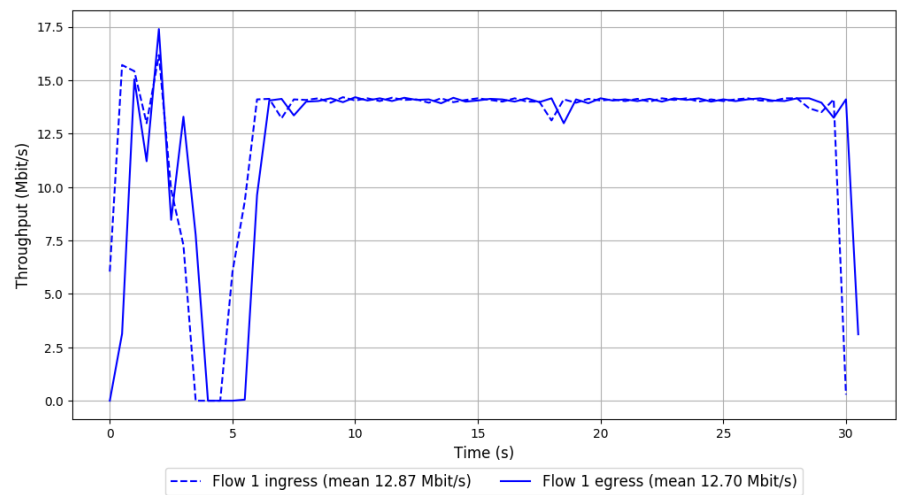
-- Flow 1:

Average throughput: 12.70 Mbit/s

95th percentile per-packet one-way delay: 101.355 ms

Loss rate: 1.31%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-07-09 21:25:39

End at: 2018-07-09 21:26:09

Local clock offset: 1.184 ms

Remote clock offset: -0.535 ms

Below is generated by plot.py at 2018-07-09 23:56:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.35 Mbit/s

95th percentile per-packet one-way delay: 96.142 ms

Loss rate: 2.55%

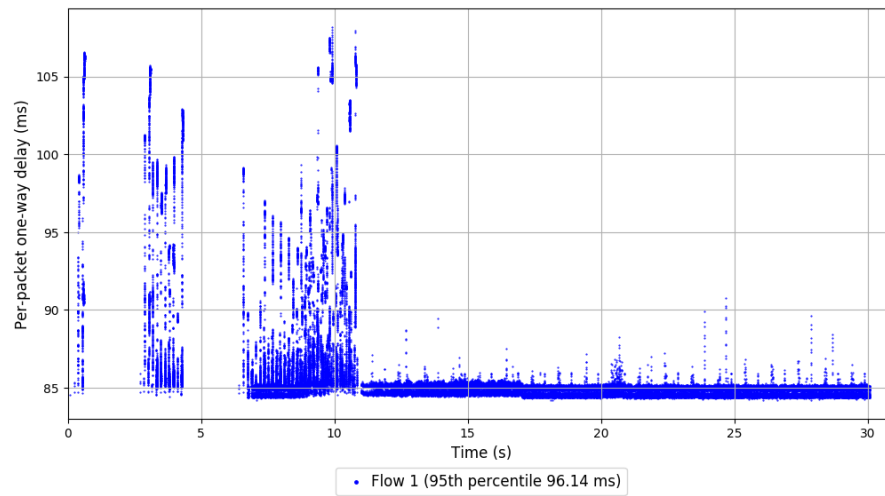
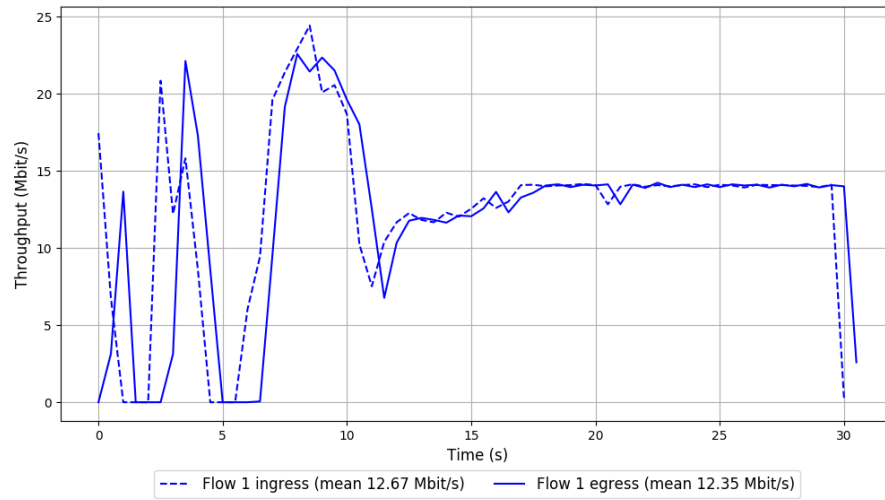
-- Flow 1:

Average throughput: 12.35 Mbit/s

95th percentile per-packet one-way delay: 96.142 ms

Loss rate: 2.55%

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

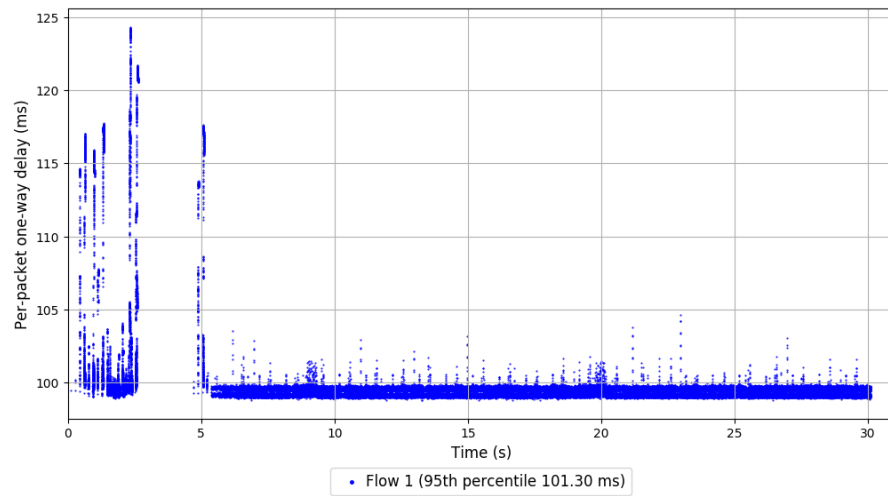
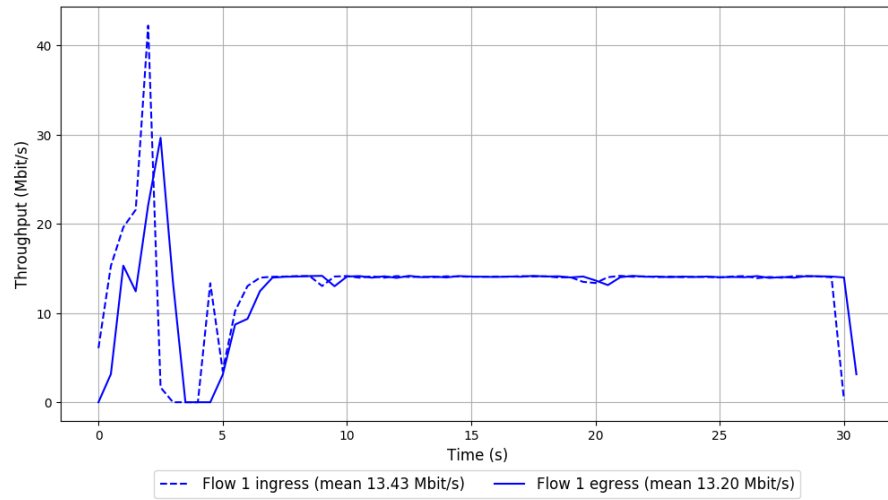


Run 5: Statistics of TaoVA-100x

Start at: 2018-07-09 21:48:01
End at: 2018-07-09 21:48:31
Local clock offset: 1.287 ms
Remote clock offset: -0.073 ms

Below is generated by plot.py at 2018-07-09 23:56:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.20 Mbit/s
95th percentile per-packet one-way delay: 101.296 ms
Loss rate: 1.75%
-- Flow 1:
Average throughput: 13.20 Mbit/s
95th percentile per-packet one-way delay: 101.296 ms
Loss rate: 1.75%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-07-09 22:10:36

End at: 2018-07-09 22:11:06

Local clock offset: 1.293 ms

Remote clock offset: 0.737 ms

Below is generated by plot.py at 2018-07-09 23:57:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.85 Mbit/s

95th percentile per-packet one-way delay: 86.300 ms

Loss rate: 1.43%

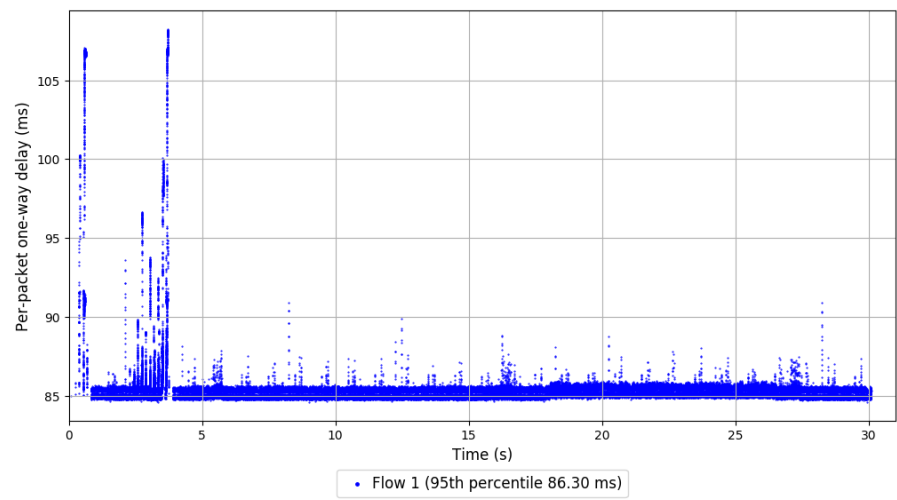
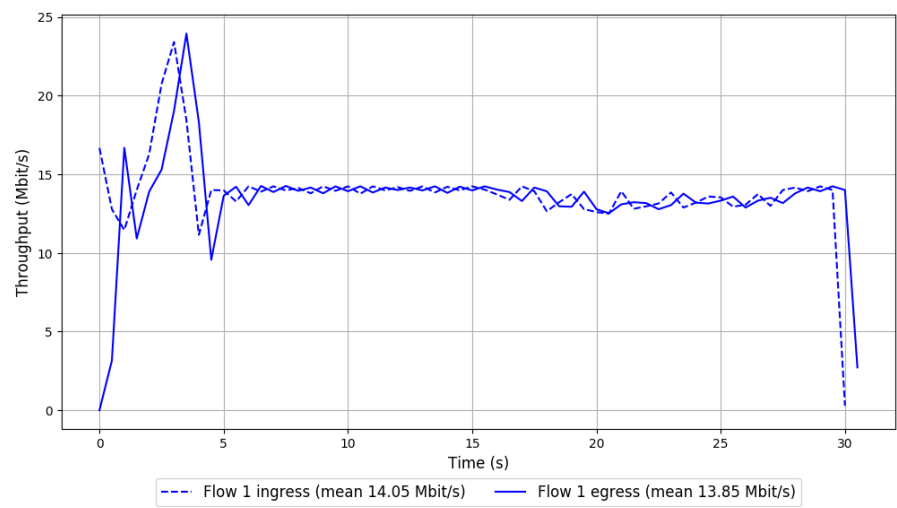
-- Flow 1:

Average throughput: 13.85 Mbit/s

95th percentile per-packet one-way delay: 86.300 ms

Loss rate: 1.43%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-09 22:33:03

End at: 2018-07-09 22:33:33

Local clock offset: 1.351 ms

Remote clock offset: 0.955 ms

Below is generated by plot.py at 2018-07-09 23:57:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.67 Mbit/s

95th percentile per-packet one-way delay: 99.938 ms

Loss rate: 0.35%

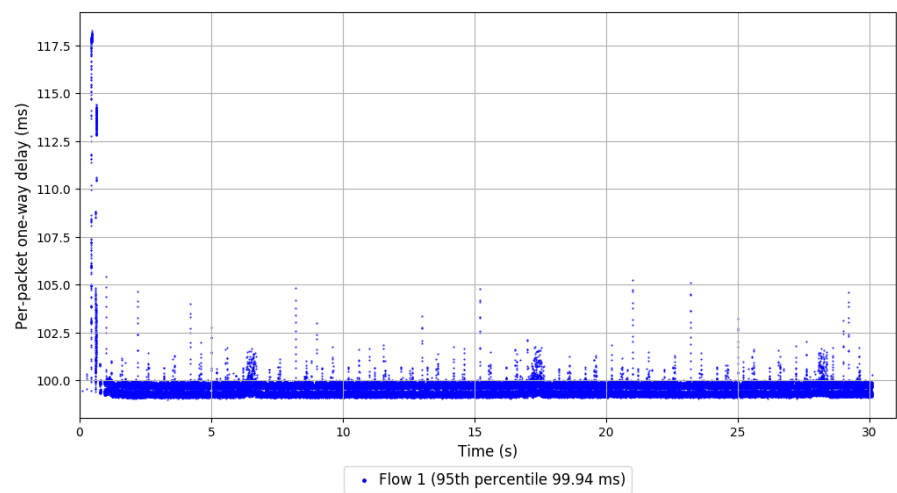
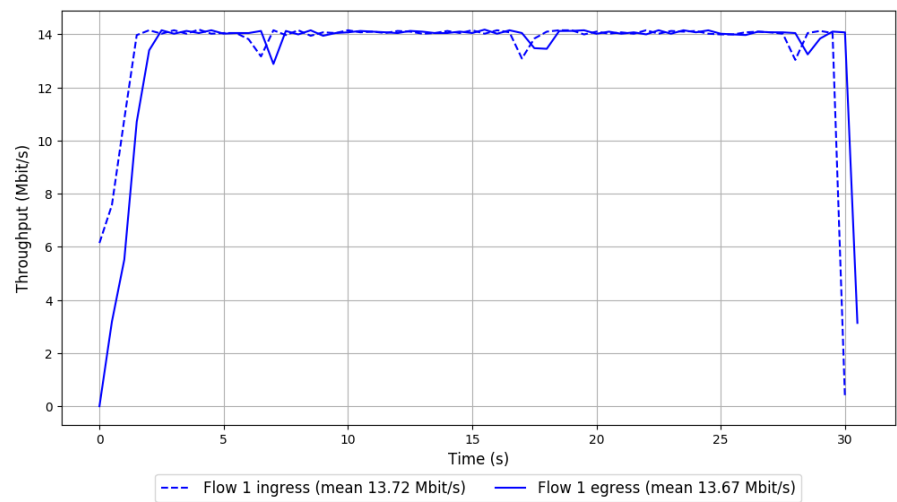
-- Flow 1:

Average throughput: 13.67 Mbit/s

95th percentile per-packet one-way delay: 99.938 ms

Loss rate: 0.35%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-09 22:55:30

End at: 2018-07-09 22:56:00

Local clock offset: 1.653 ms

Remote clock offset: 0.414 ms

Below is generated by plot.py at 2018-07-09 23:57:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.67 Mbit/s

95th percentile per-packet one-way delay: 85.121 ms

Loss rate: 0.96%

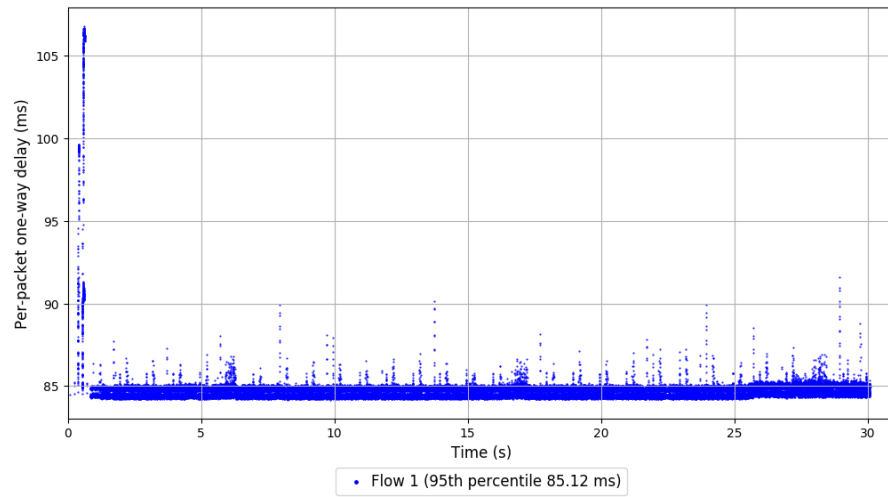
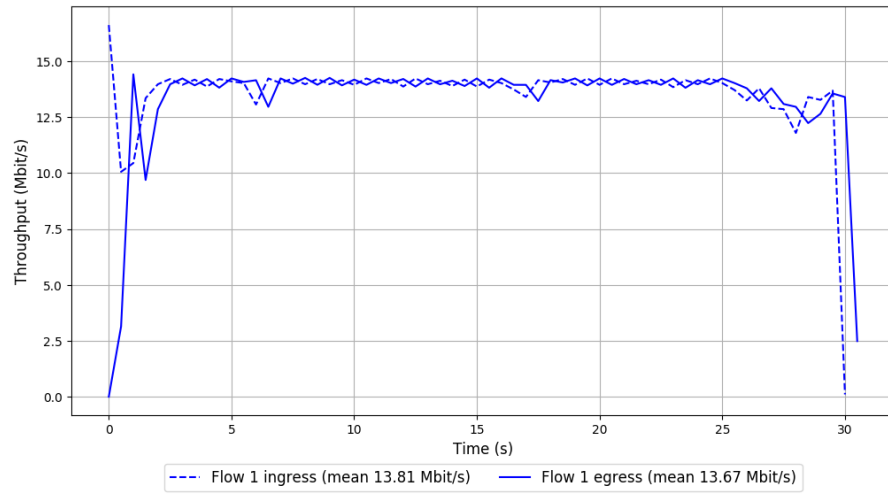
-- Flow 1:

Average throughput: 13.67 Mbit/s

95th percentile per-packet one-way delay: 85.121 ms

Loss rate: 0.96%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-07-09 23:17:54

End at: 2018-07-09 23:18:24

Local clock offset: 1.595 ms

Remote clock offset: -0.087 ms

Below is generated by plot.py at 2018-07-09 23:57:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.18 Mbit/s

95th percentile per-packet one-way delay: 87.029 ms

Loss rate: 2.12%

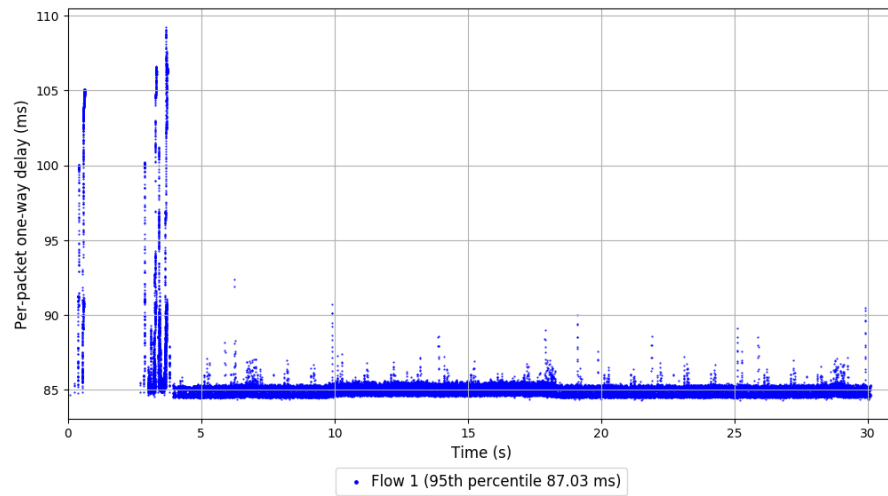
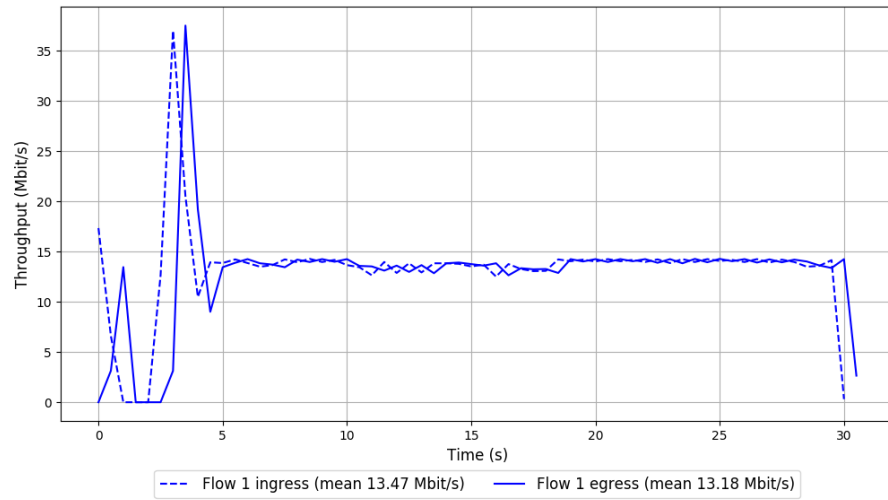
-- Flow 1:

Average throughput: 13.18 Mbit/s

95th percentile per-packet one-way delay: 87.029 ms

Loss rate: 2.12%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-09 23:40:16

End at: 2018-07-09 23:40:46

Local clock offset: 1.478 ms

Remote clock offset: -0.54 ms

Below is generated by plot.py at 2018-07-09 23:57:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.49 Mbit/s

95th percentile per-packet one-way delay: 103.355 ms

Loss rate: 0.83%

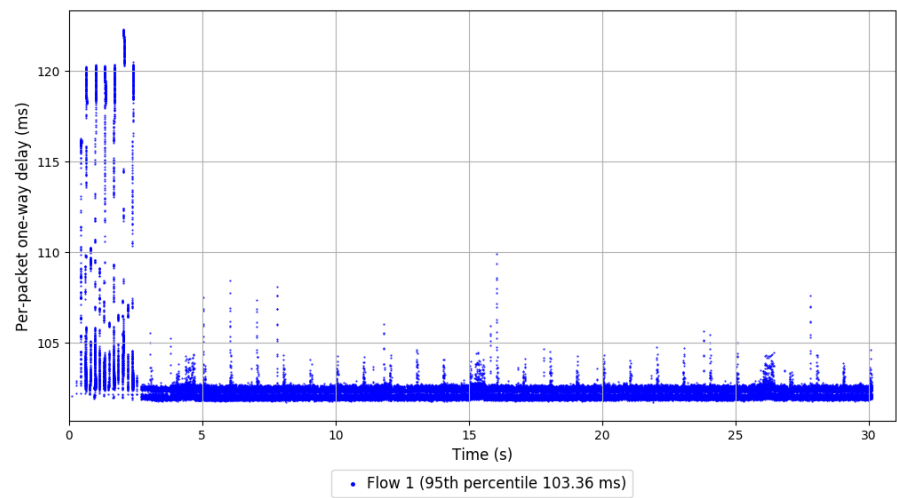
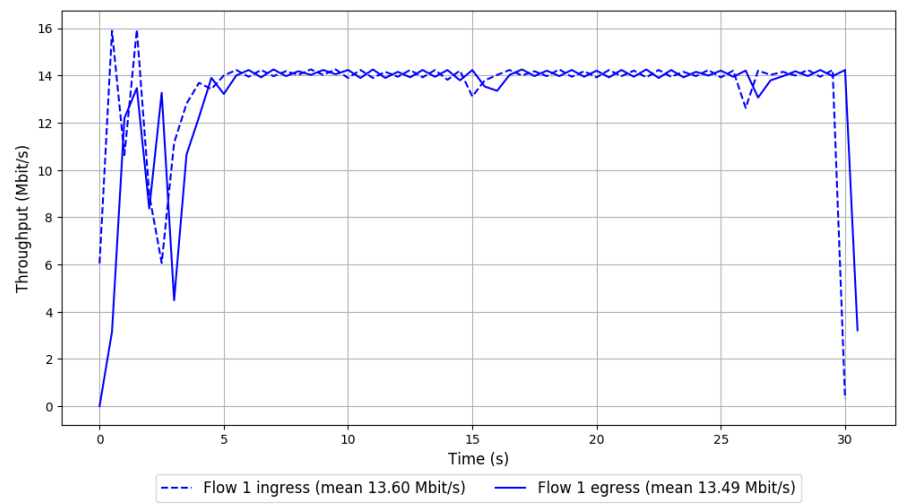
-- Flow 1:

Average throughput: 13.49 Mbit/s

95th percentile per-packet one-way delay: 103.355 ms

Loss rate: 0.83%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-07-09 20:15:48

End at: 2018-07-09 20:16:18

Local clock offset: 1.473 ms

Remote clock offset: 0.127 ms

Below is generated by plot.py at 2018-07-09 23:57:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.16 Mbit/s

95th percentile per-packet one-way delay: 101.497 ms

Loss rate: 0.80%

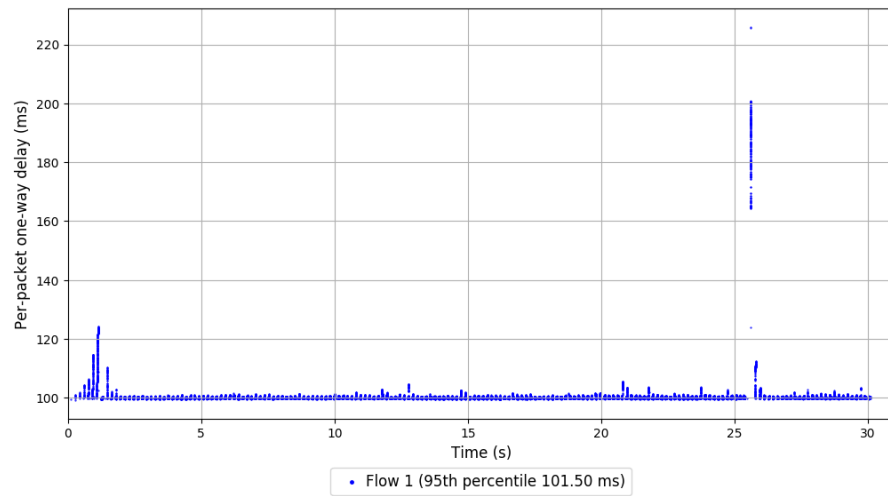
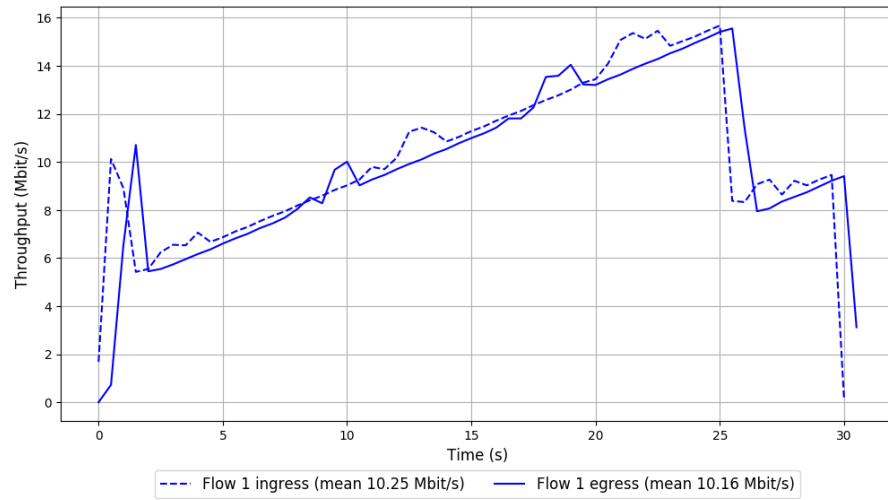
-- Flow 1:

Average throughput: 10.16 Mbit/s

95th percentile per-packet one-way delay: 101.497 ms

Loss rate: 0.80%

Run 1: Report of TCP Vegas — Data Link

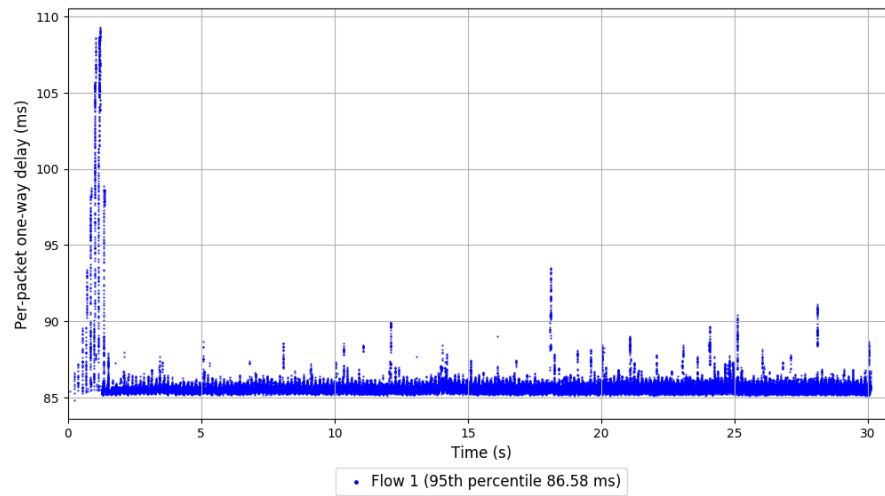
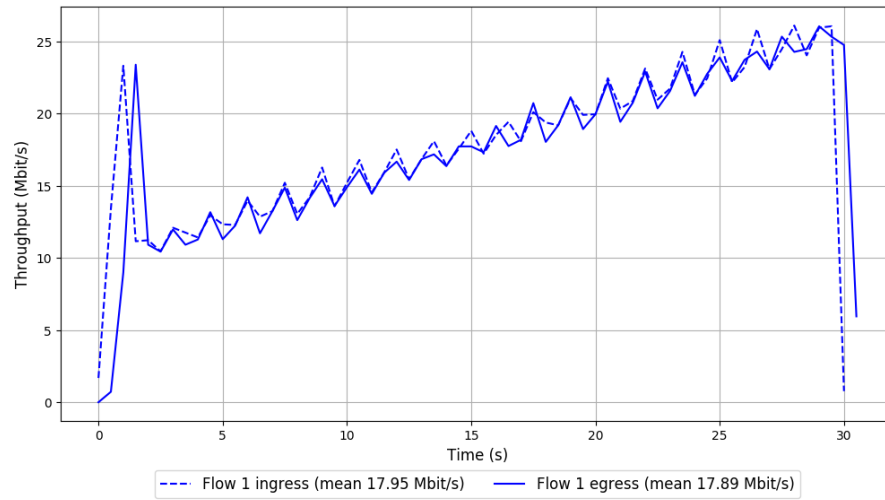


Run 2: Statistics of TCP Vegas

Start at: 2018-07-09 20:38:11
End at: 2018-07-09 20:38:41
Local clock offset: 1.111 ms
Remote clock offset: -0.889 ms

Below is generated by plot.py at 2018-07-09 23:57:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 17.89 Mbit/s
95th percentile per-packet one-way delay: 86.579 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 17.89 Mbit/s
95th percentile per-packet one-way delay: 86.579 ms
Loss rate: 0.35%

Run 2: Report of TCP Vegas — Data Link

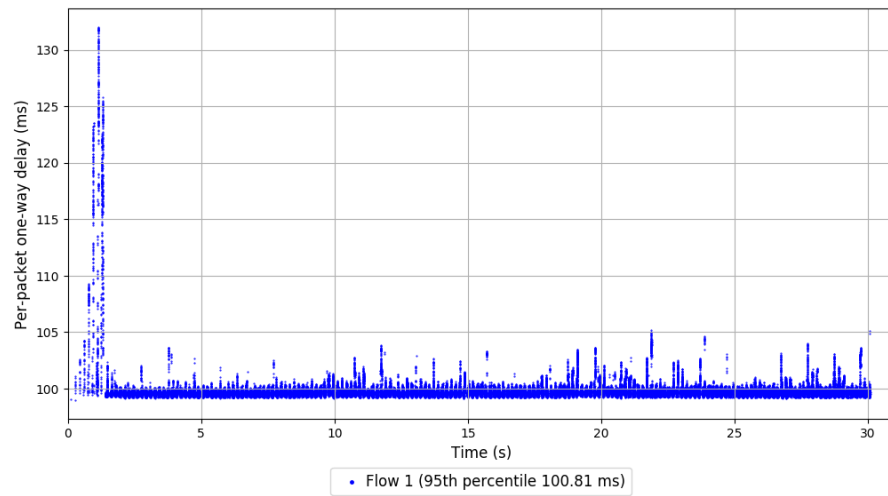
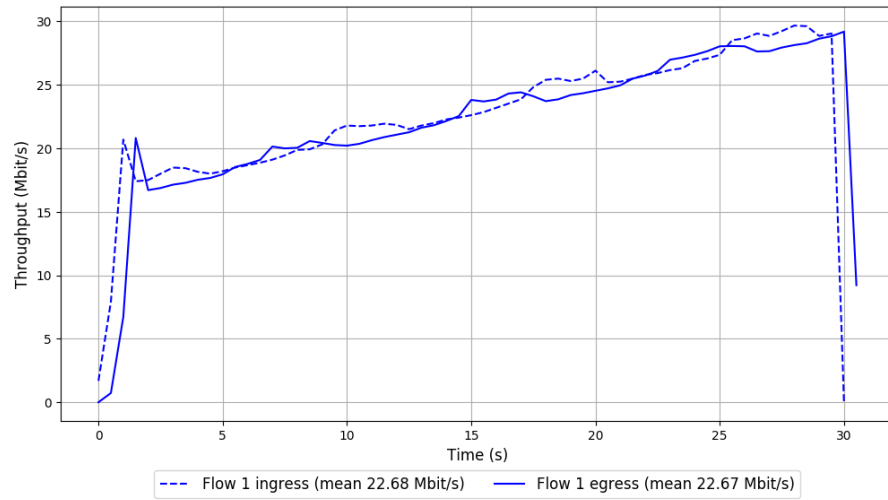


Run 3: Statistics of TCP Vegas

Start at: 2018-07-09 21:05:52
End at: 2018-07-09 21:06:22
Local clock offset: 1.035 ms
Remote clock offset: -0.686 ms

Below is generated by plot.py at 2018-07-09 23:57:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 22.67 Mbit/s
95th percentile per-packet one-way delay: 100.808 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 22.67 Mbit/s
95th percentile per-packet one-way delay: 100.808 ms
Loss rate: 0.07%

Run 3: Report of TCP Vegas — Data Link

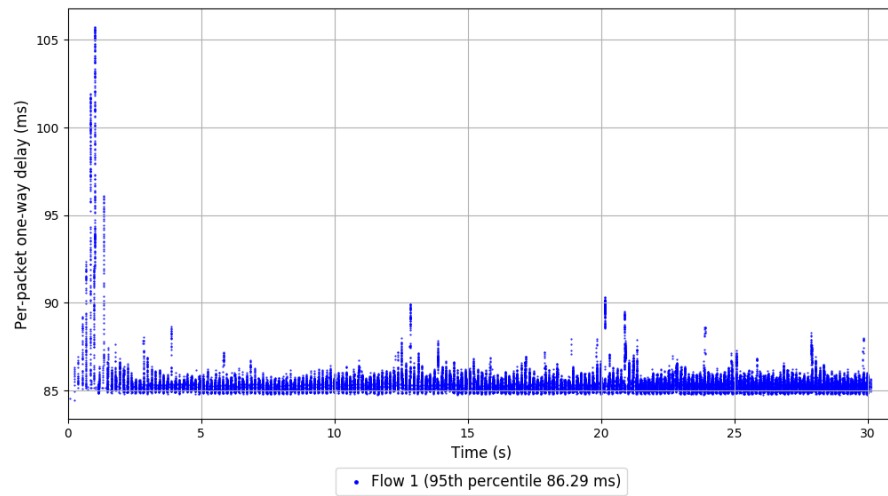
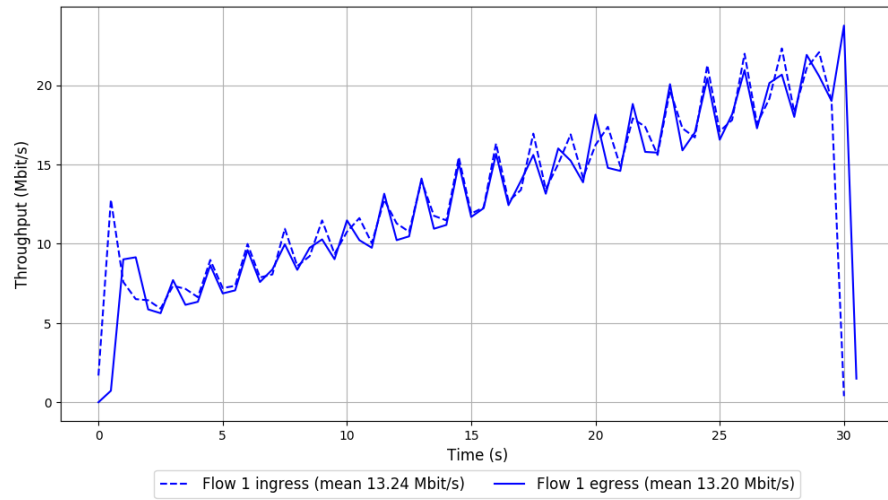


Run 4: Statistics of TCP Vegas

Start at: 2018-07-09 21:28:15
End at: 2018-07-09 21:28:46
Local clock offset: 1.184 ms
Remote clock offset: -0.444 ms

Below is generated by plot.py at 2018-07-09 23:57:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.20 Mbit/s
95th percentile per-packet one-way delay: 86.294 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 13.20 Mbit/s
95th percentile per-packet one-way delay: 86.294 ms
Loss rate: 0.34%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-07-09 21:50:38

End at: 2018-07-09 21:51:08

Local clock offset: 1.526 ms

Remote clock offset: 0.062 ms

Below is generated by plot.py at 2018-07-09 23:57:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.29 Mbit/s

95th percentile per-packet one-way delay: 86.611 ms

Loss rate: 0.09%

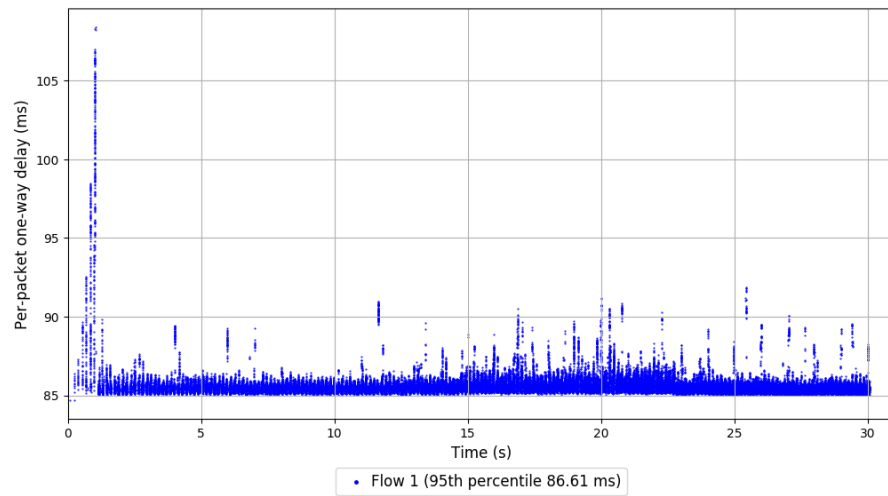
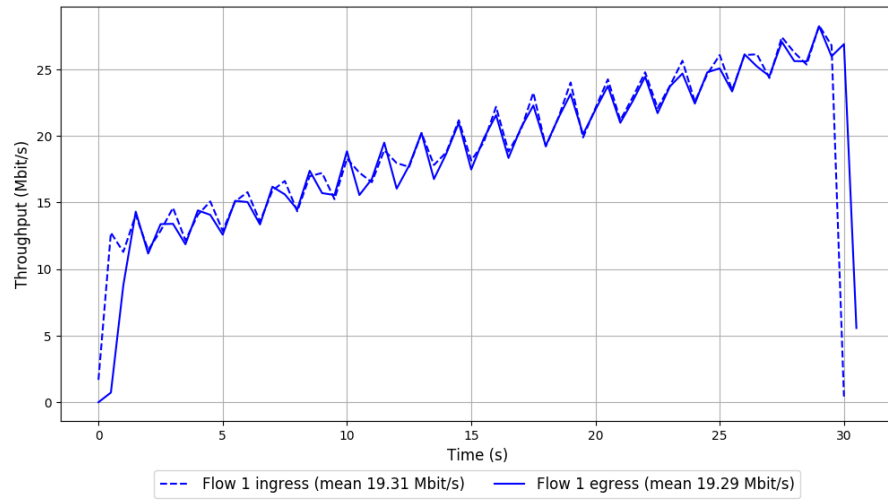
-- Flow 1:

Average throughput: 19.29 Mbit/s

95th percentile per-packet one-way delay: 86.611 ms

Loss rate: 0.09%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-07-09 22:13:13

End at: 2018-07-09 22:13:43

Local clock offset: 1.573 ms

Remote clock offset: 0.804 ms

Below is generated by plot.py at 2018-07-09 23:57:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.34 Mbit/s

95th percentile per-packet one-way delay: 86.422 ms

Loss rate: 0.33%

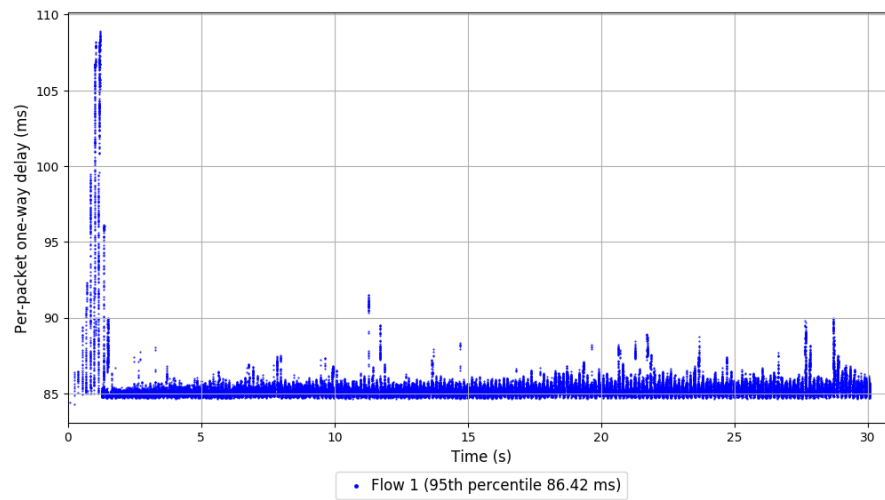
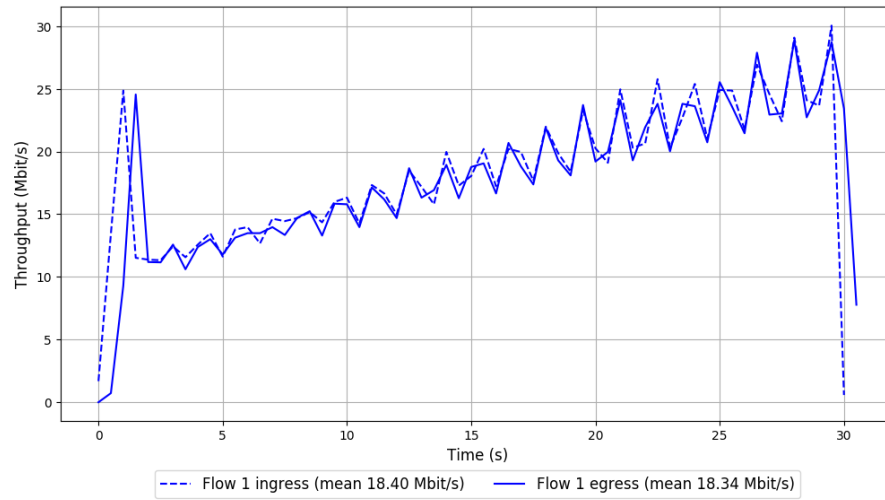
-- Flow 1:

Average throughput: 18.34 Mbit/s

95th percentile per-packet one-way delay: 86.422 ms

Loss rate: 0.33%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-09 22:35:40

End at: 2018-07-09 22:36:10

Local clock offset: 1.58 ms

Remote clock offset: 0.834 ms

Below is generated by plot.py at 2018-07-09 23:57:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.74 Mbit/s

95th percentile per-packet one-way delay: 86.380 ms

Loss rate: 0.09%

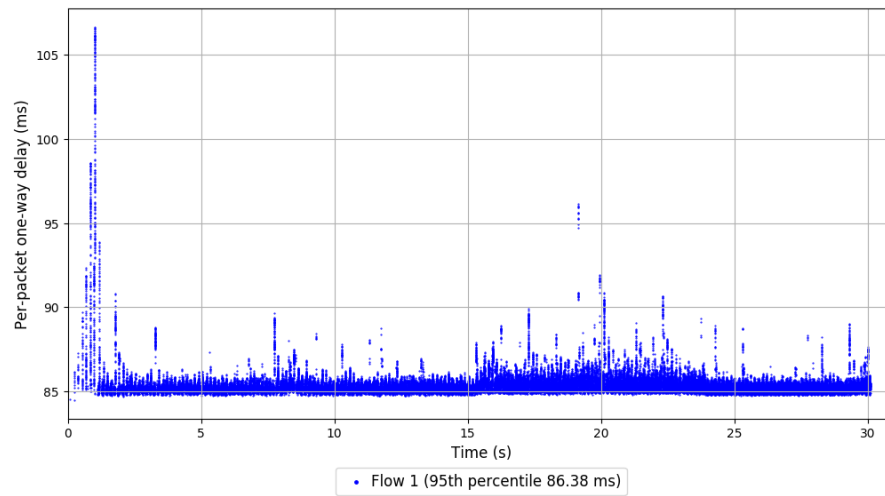
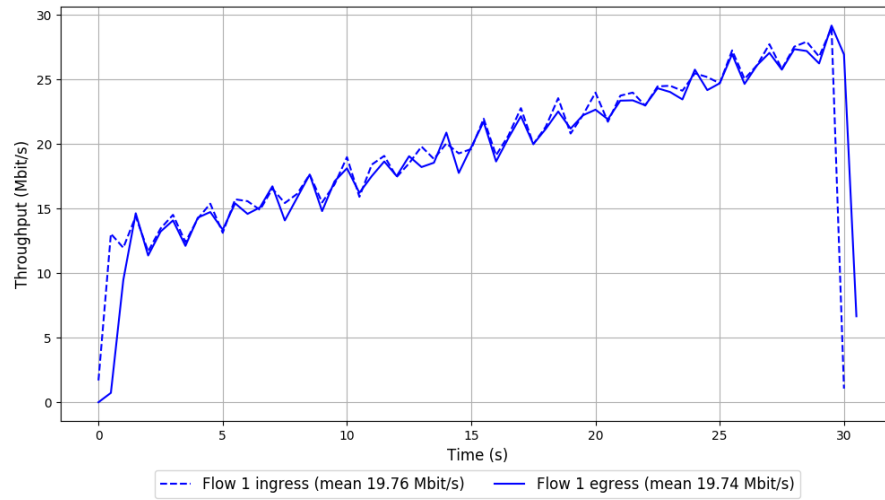
-- Flow 1:

Average throughput: 19.74 Mbit/s

95th percentile per-packet one-way delay: 86.380 ms

Loss rate: 0.09%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-07-09 22:58:07

End at: 2018-07-09 22:58:37

Local clock offset: 1.537 ms

Remote clock offset: 0.45 ms

Below is generated by plot.py at 2018-07-09 23:57:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.62 Mbit/s

95th percentile per-packet one-way delay: 86.060 ms

Loss rate: 0.06%

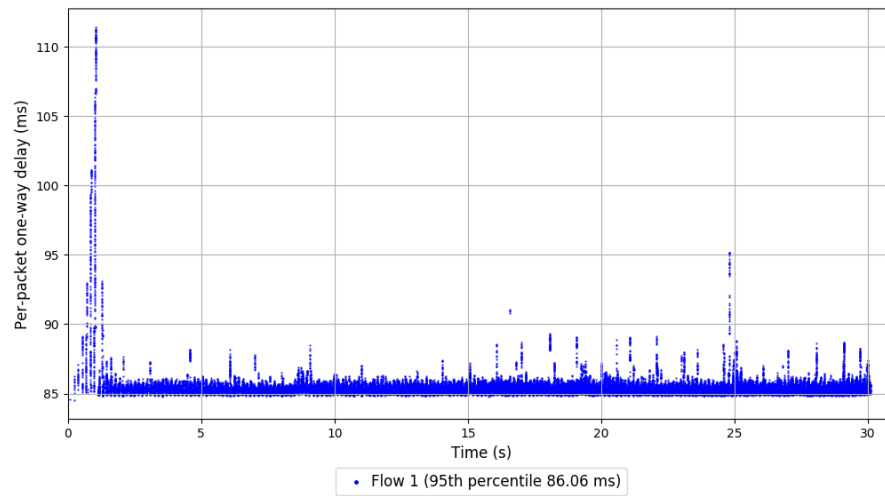
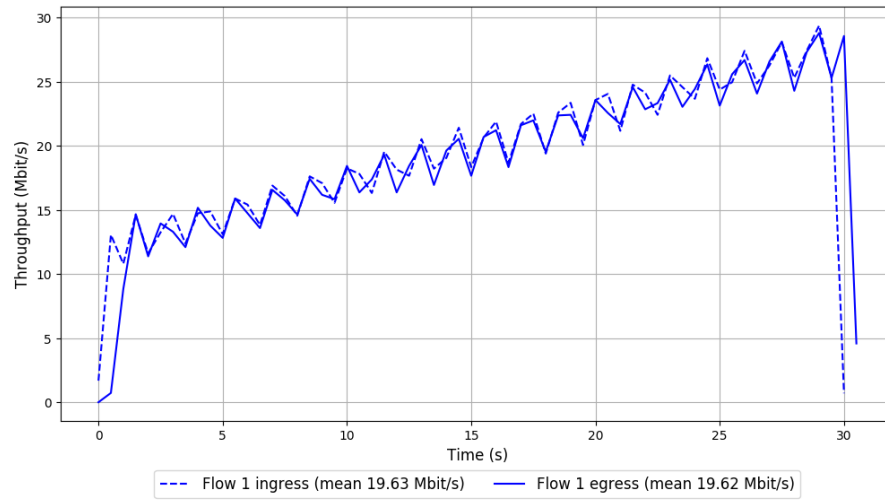
-- Flow 1:

Average throughput: 19.62 Mbit/s

95th percentile per-packet one-way delay: 86.060 ms

Loss rate: 0.06%

Run 8: Report of TCP Vegas — Data Link

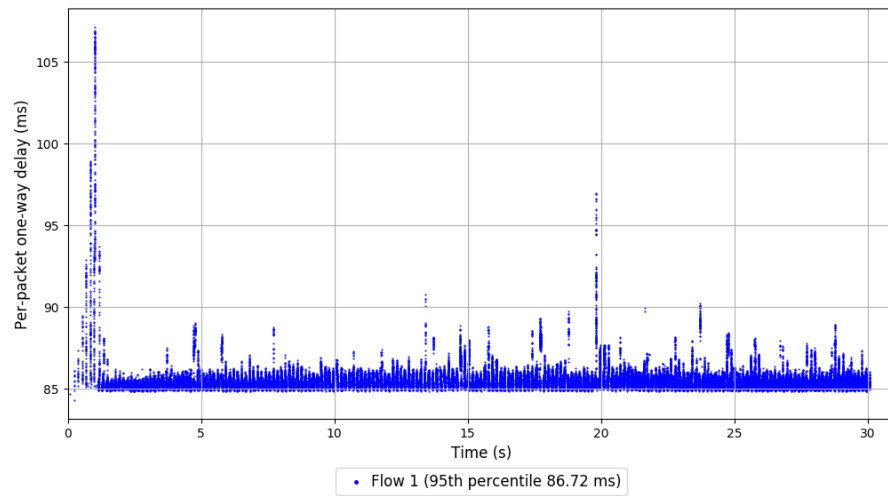
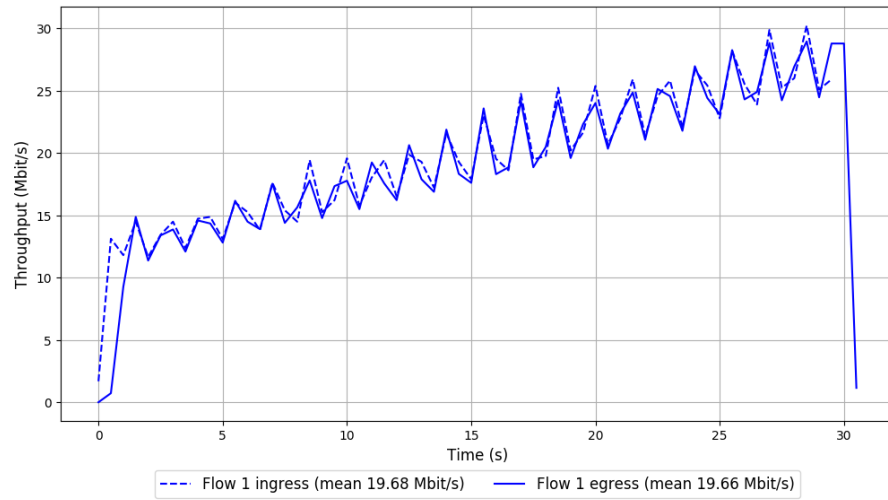


Run 9: Statistics of TCP Vegas

Start at: 2018-07-09 23:20:31
End at: 2018-07-09 23:21:01
Local clock offset: 1.645 ms
Remote clock offset: -0.163 ms

Below is generated by plot.py at 2018-07-09 23:57:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 19.66 Mbit/s
95th percentile per-packet one-way delay: 86.716 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 19.66 Mbit/s
95th percentile per-packet one-way delay: 86.716 ms
Loss rate: 0.09%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-09 23:42:54

End at: 2018-07-09 23:43:24

Local clock offset: 1.602 ms

Remote clock offset: -0.574 ms

Below is generated by plot.py at 2018-07-09 23:57:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.79 Mbit/s

95th percentile per-packet one-way delay: 103.539 ms

Loss rate: 0.37%

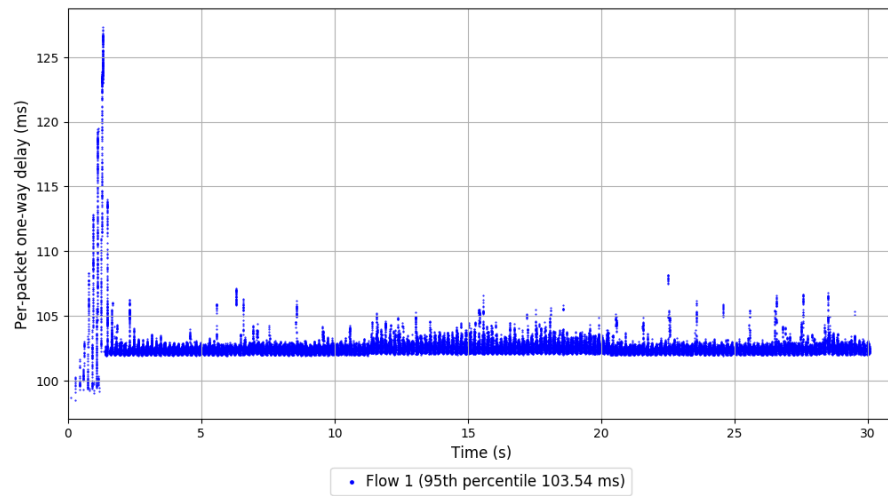
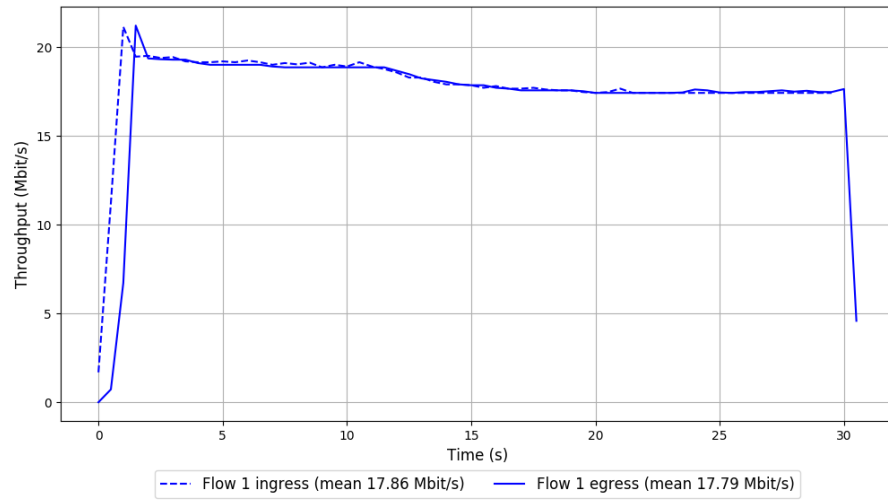
-- Flow 1:

Average throughput: 17.79 Mbit/s

95th percentile per-packet one-way delay: 103.539 ms

Loss rate: 0.37%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-07-09 19:57:26

End at: 2018-07-09 19:57:56

Local clock offset: 1.183 ms

Remote clock offset: 0.099 ms

Below is generated by plot.py at 2018-07-09 23:58:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.90 Mbit/s

95th percentile per-packet one-way delay: 181.716 ms

Loss rate: 90.95%

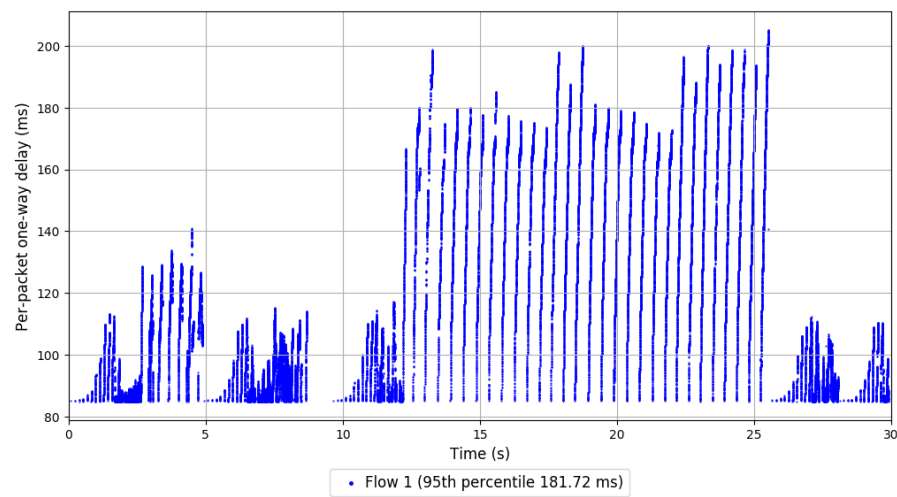
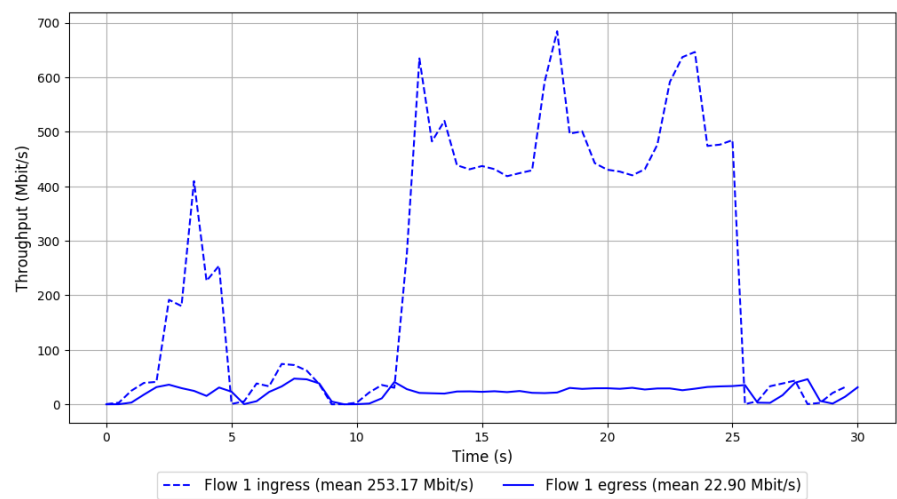
-- Flow 1:

Average throughput: 22.90 Mbit/s

95th percentile per-packet one-way delay: 181.716 ms

Loss rate: 90.95%

Run 1: Report of Verus — Data Link

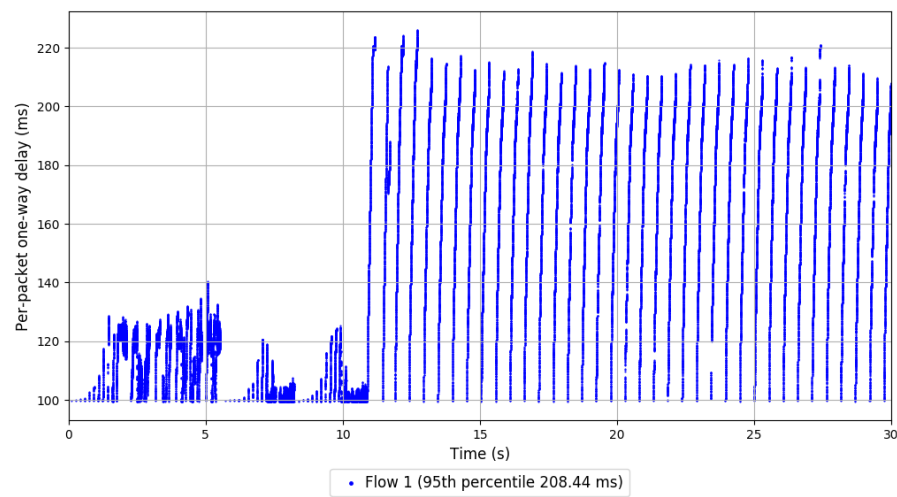
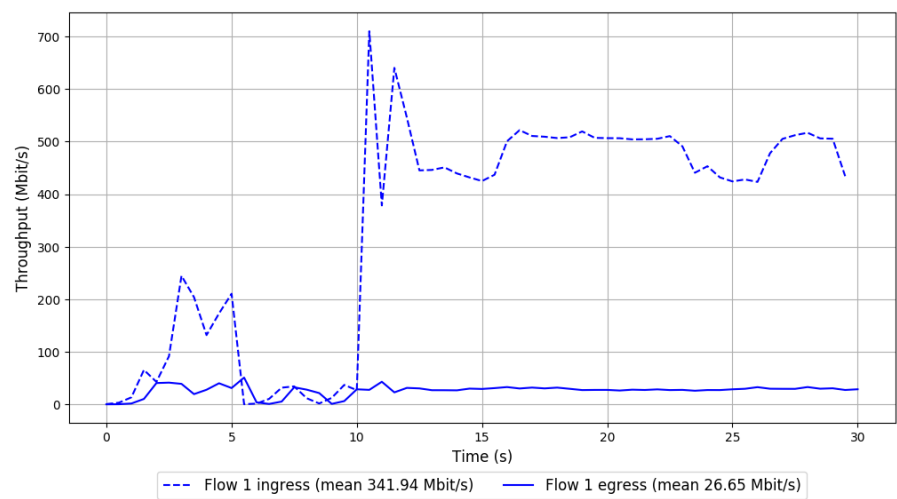


Run 2: Statistics of Verus

Start at: 2018-07-09 20:19:47
End at: 2018-07-09 20:20:17
Local clock offset: 1.705 ms
Remote clock offset: -0.284 ms

Below is generated by plot.py at 2018-07-09 23:58:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 26.65 Mbit/s
95th percentile per-packet one-way delay: 208.445 ms
Loss rate: 92.18%
-- Flow 1:
Average throughput: 26.65 Mbit/s
95th percentile per-packet one-way delay: 208.445 ms
Loss rate: 92.18%

Run 2: Report of Verus — Data Link

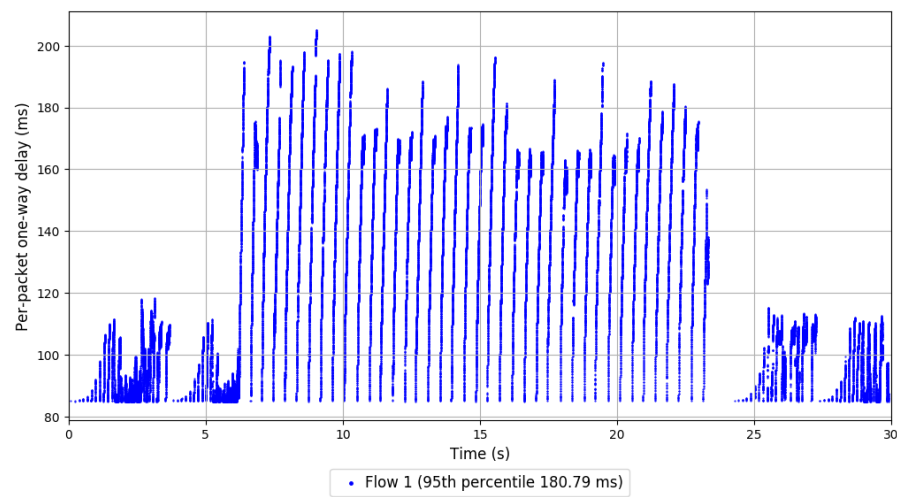
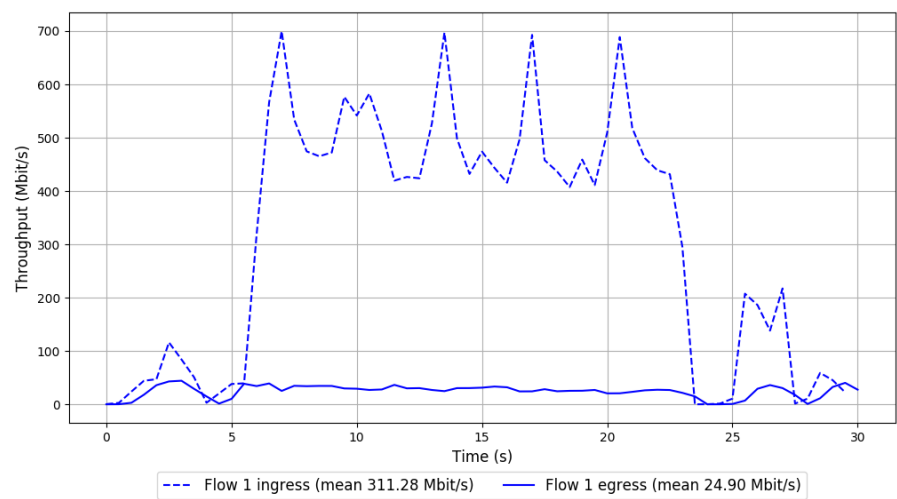


Run 3: Statistics of Verus

Start at: 2018-07-09 20:47:25
End at: 2018-07-09 20:47:55
Local clock offset: 0.91 ms
Remote clock offset: -1.009 ms

Below is generated by plot.py at 2018-07-09 23:58:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.90 Mbit/s
95th percentile per-packet one-way delay: 180.786 ms
Loss rate: 92.00%
-- Flow 1:
Average throughput: 24.90 Mbit/s
95th percentile per-packet one-way delay: 180.786 ms
Loss rate: 92.00%

Run 3: Report of Verus — Data Link

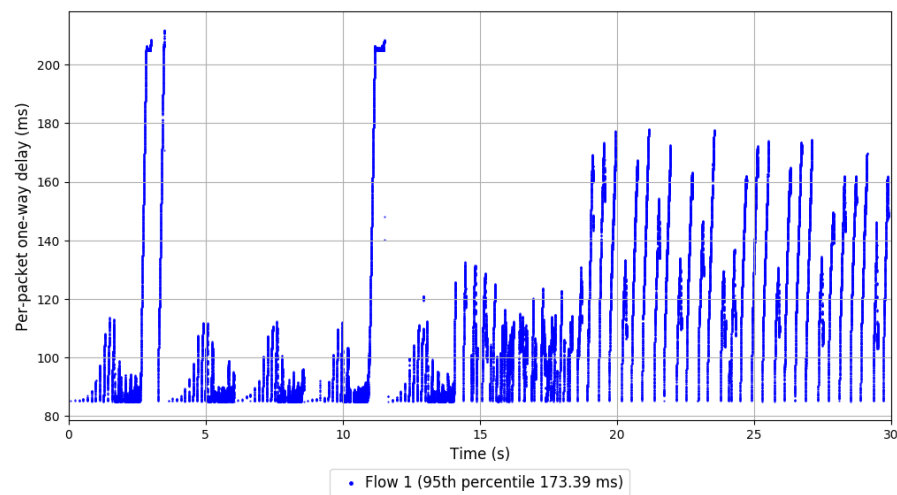
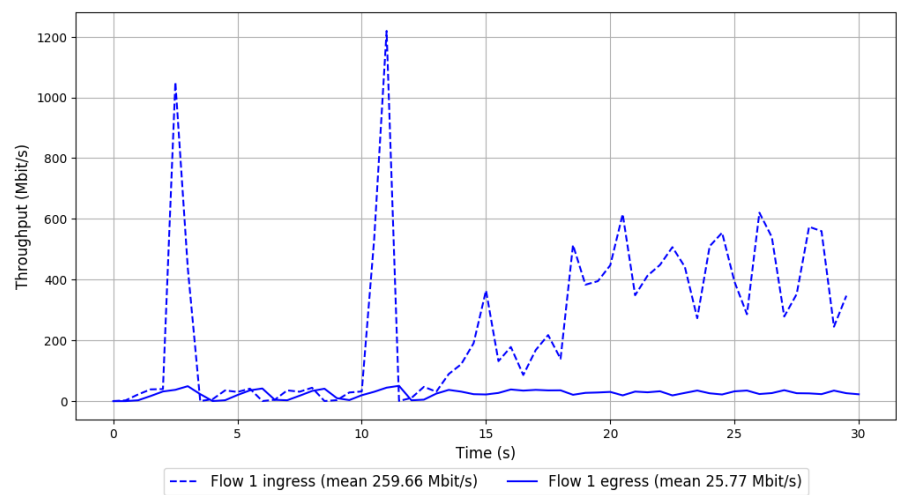


Run 4: Statistics of Verus

Start at: 2018-07-09 21:09:52
End at: 2018-07-09 21:10:22
Local clock offset: 1.204 ms
Remote clock offset: -0.733 ms

Below is generated by plot.py at 2018-07-09 23:58:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 25.77 Mbit/s
95th percentile per-packet one-way delay: 173.390 ms
Loss rate: 90.06%
-- Flow 1:
Average throughput: 25.77 Mbit/s
95th percentile per-packet one-way delay: 173.390 ms
Loss rate: 90.06%

Run 4: Report of Verus — Data Link

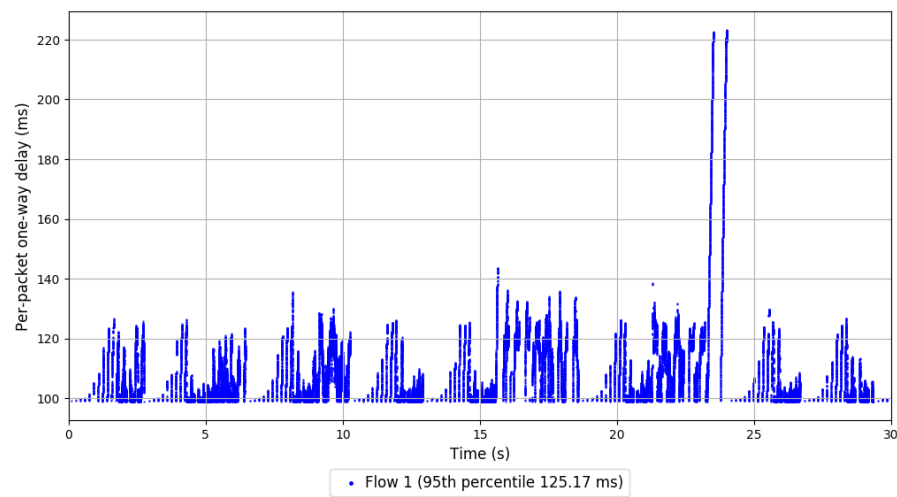
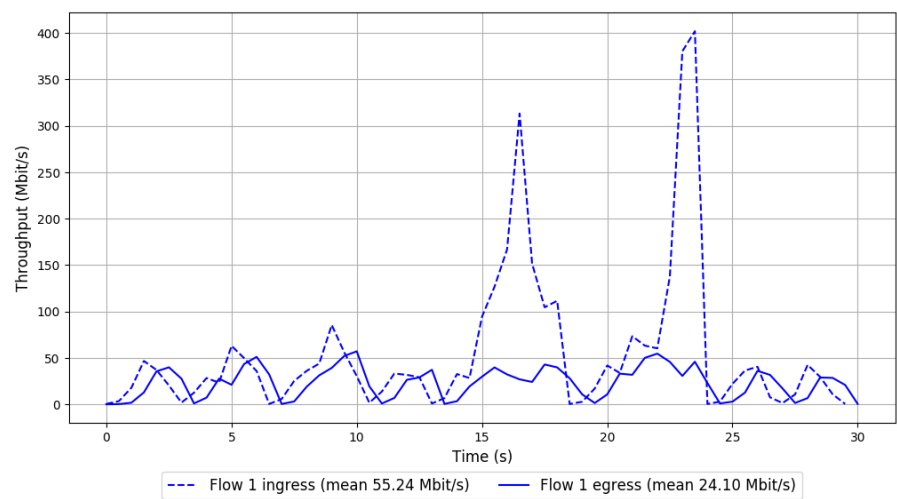


Run 5: Statistics of Verus

Start at: 2018-07-09 21:32:15
End at: 2018-07-09 21:32:45
Local clock offset: 1.176 ms
Remote clock offset: -0.355 ms

Below is generated by plot.py at 2018-07-09 23:58:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.10 Mbit/s
95th percentile per-packet one-way delay: 125.166 ms
Loss rate: 56.37%
-- Flow 1:
Average throughput: 24.10 Mbit/s
95th percentile per-packet one-way delay: 125.166 ms
Loss rate: 56.37%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-07-09 21:54:37

End at: 2018-07-09 21:55:07

Local clock offset: 1.208 ms

Remote clock offset: 0.02 ms

Below is generated by plot.py at 2018-07-09 23:58:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.00 Mbit/s

95th percentile per-packet one-way delay: 139.378 ms

Loss rate: 67.70%

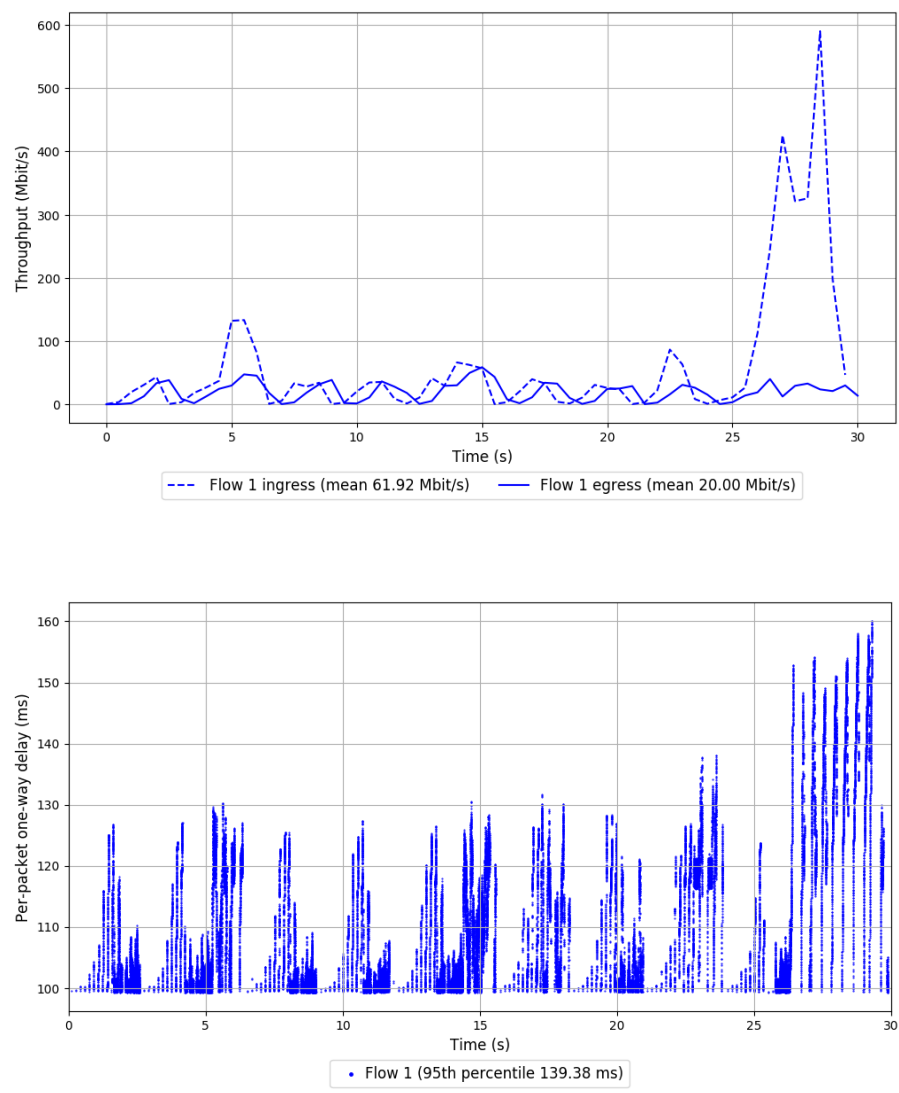
-- Flow 1:

Average throughput: 20.00 Mbit/s

95th percentile per-packet one-way delay: 139.378 ms

Loss rate: 67.70%

Run 6: Report of Verus — Data Link

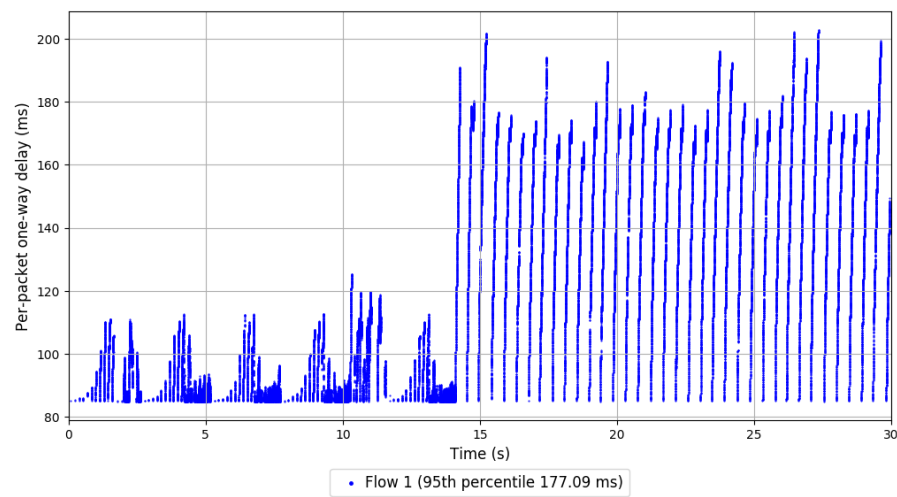
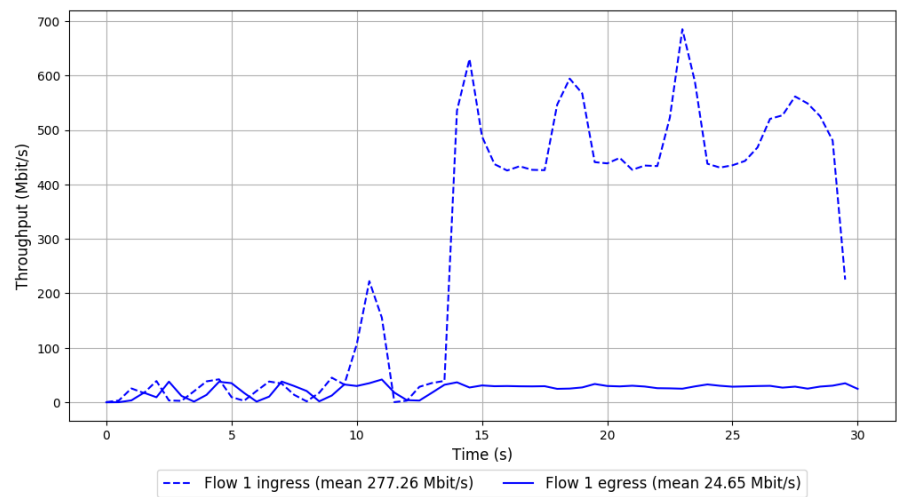


Run 7: Statistics of Verus

Start at: 2018-07-09 22:17:13
End at: 2018-07-09 22:17:43
Local clock offset: 1.477 ms
Remote clock offset: 0.884 ms

Below is generated by plot.py at 2018-07-09 23:58:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.65 Mbit/s
95th percentile per-packet one-way delay: 177.093 ms
Loss rate: 91.09%
-- Flow 1:
Average throughput: 24.65 Mbit/s
95th percentile per-packet one-way delay: 177.093 ms
Loss rate: 91.09%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-07-09 22:39:40

End at: 2018-07-09 22:40:10

Local clock offset: 1.44 ms

Remote clock offset: 0.657 ms

Below is generated by plot.py at 2018-07-09 23:58:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.02 Mbit/s

95th percentile per-packet one-way delay: 177.134 ms

Loss rate: 91.68%

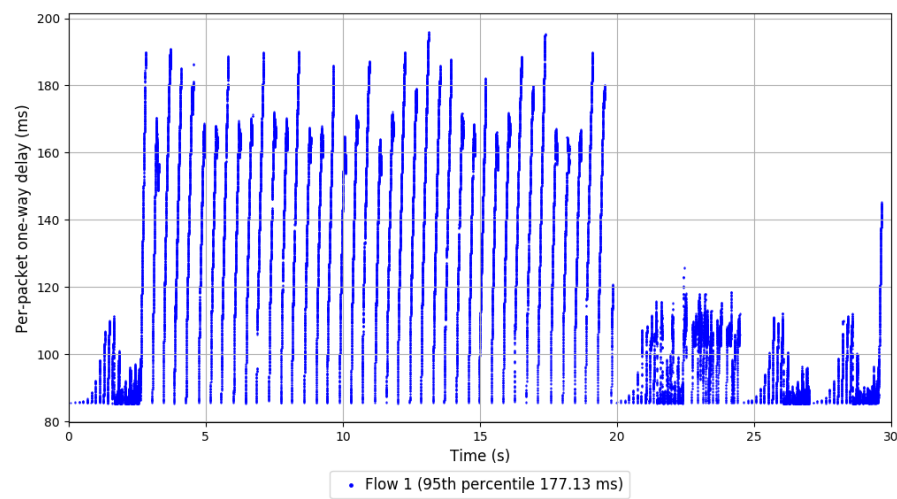
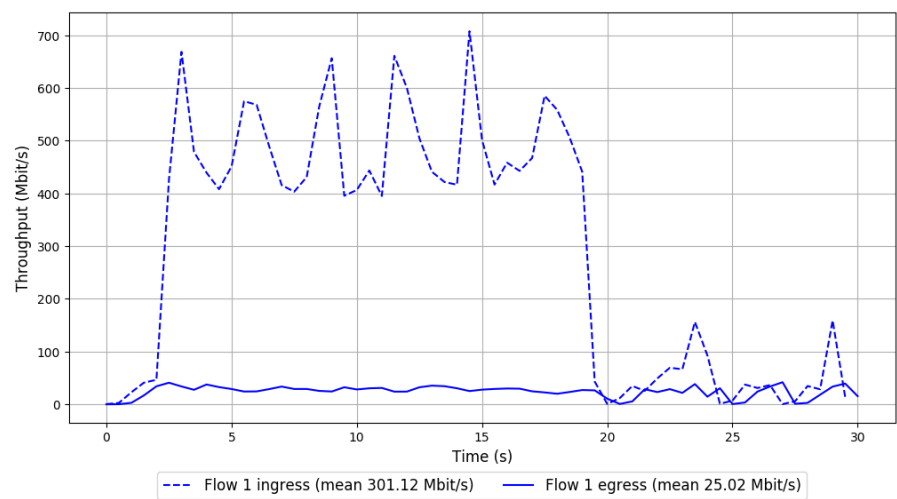
-- Flow 1:

Average throughput: 25.02 Mbit/s

95th percentile per-packet one-way delay: 177.134 ms

Loss rate: 91.68%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-07-09 23:02:08

End at: 2018-07-09 23:02:38

Local clock offset: 1.68 ms

Remote clock offset: 0.382 ms

Below is generated by plot.py at 2018-07-09 23:58:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.01 Mbit/s

95th percentile per-packet one-way delay: 182.994 ms

Loss rate: 89.25%

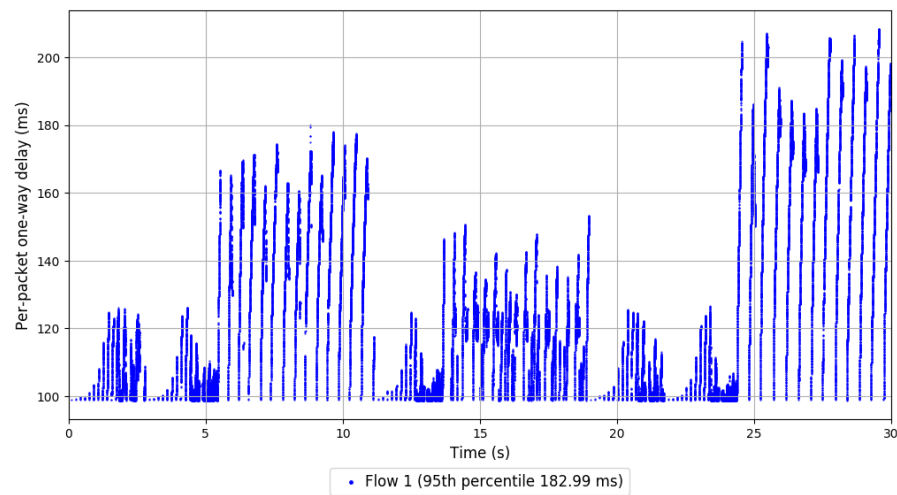
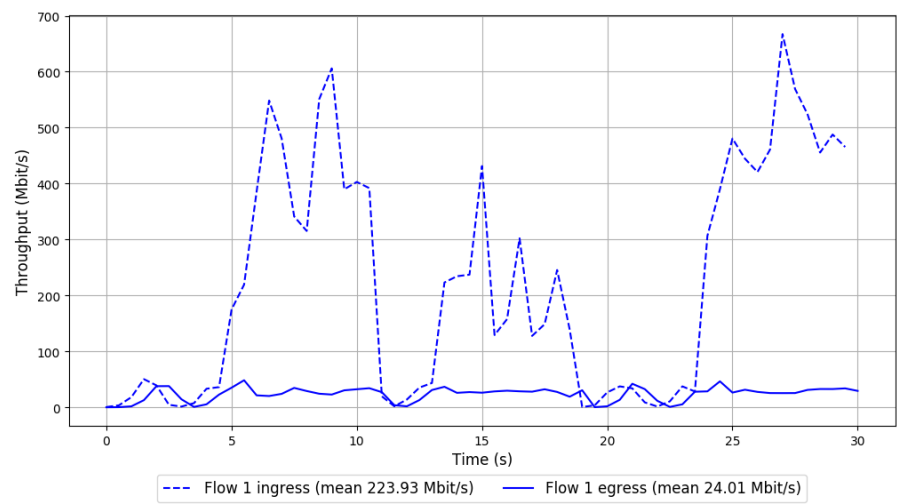
-- Flow 1:

Average throughput: 24.01 Mbit/s

95th percentile per-packet one-way delay: 182.994 ms

Loss rate: 89.25%

Run 9: Report of Verus — Data Link

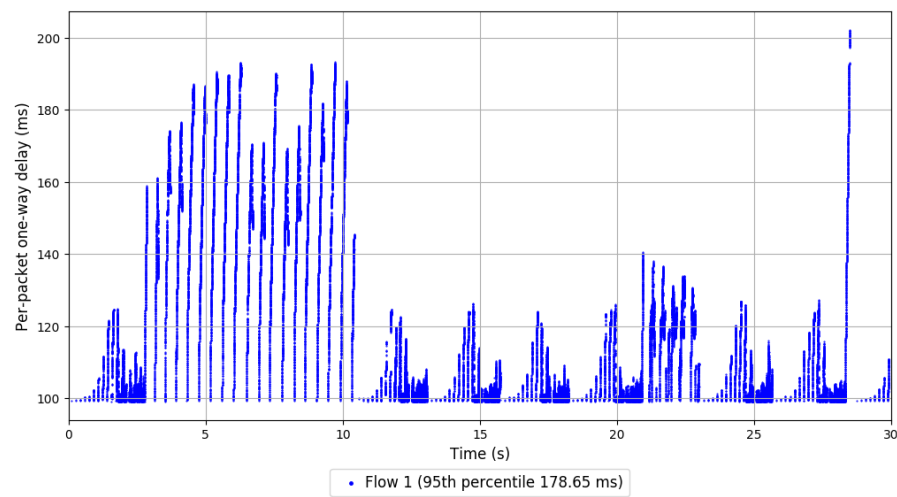
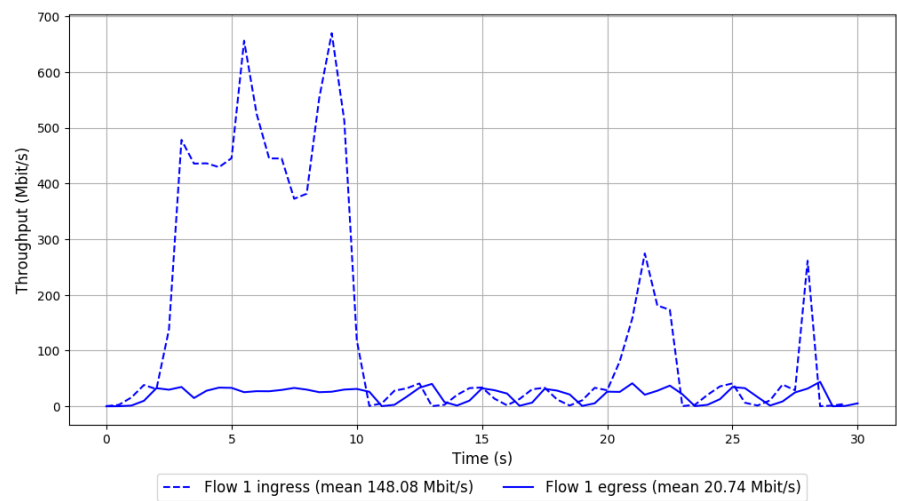


Run 10: Statistics of Verus

Start at: 2018-07-09 23:24:30
End at: 2018-07-09 23:25:00
Local clock offset: 1.618 ms
Remote clock offset: -0.285 ms

Below is generated by plot.py at 2018-07-09 23:58:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.74 Mbit/s
95th percentile per-packet one-way delay: 178.651 ms
Loss rate: 85.99%
-- Flow 1:
Average throughput: 20.74 Mbit/s
95th percentile per-packet one-way delay: 178.651 ms
Loss rate: 85.99%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-07-09 20:05:14

End at: 2018-07-09 20:05:44

Local clock offset: 1.146 ms

Remote clock offset: 0.137 ms

Below is generated by plot.py at 2018-07-09 23:58:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.97 Mbit/s

95th percentile per-packet one-way delay: 120.859 ms

Loss rate: 1.63%

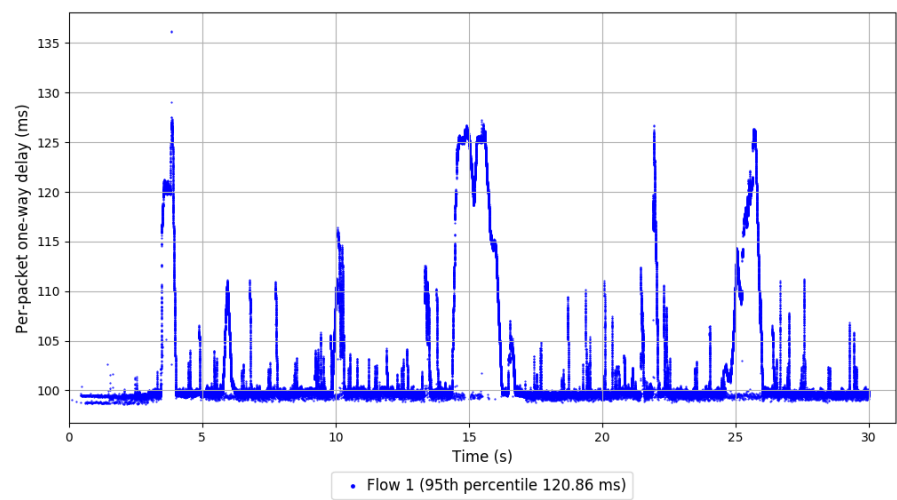
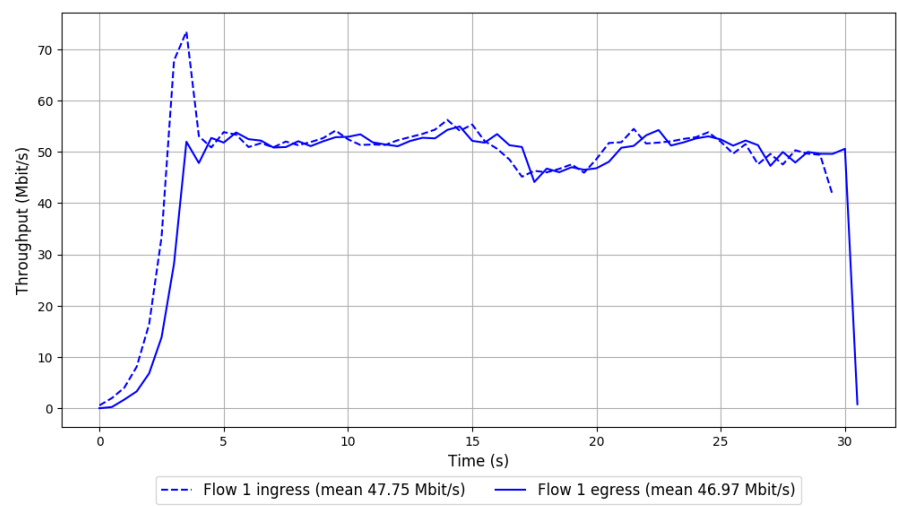
-- Flow 1:

Average throughput: 46.97 Mbit/s

95th percentile per-packet one-way delay: 120.859 ms

Loss rate: 1.63%

Run 1: Report of PCC-Vivace — Data Link

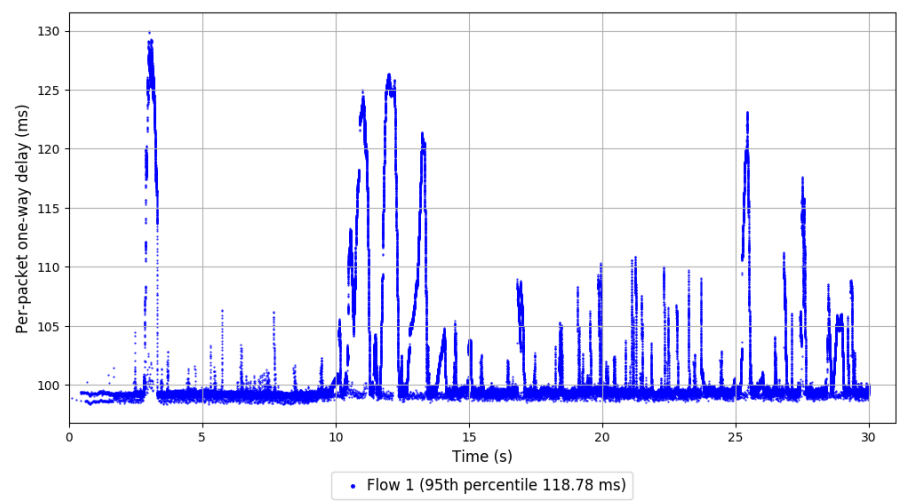
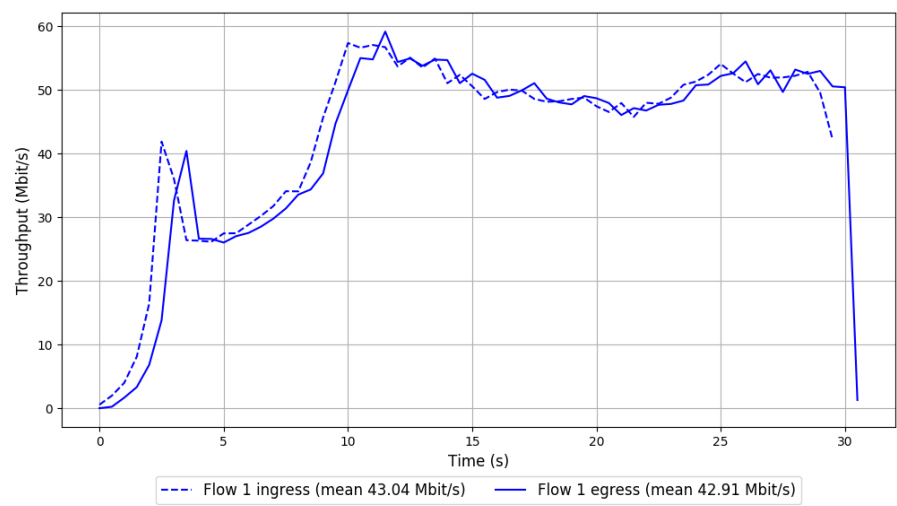


Run 2: Statistics of PCC-Vivace

Start at: 2018-07-09 20:27:41
End at: 2018-07-09 20:28:11
Local clock offset: 1.678 ms
Remote clock offset: -0.647 ms

Below is generated by plot.py at 2018-07-09 23:59:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 42.91 Mbit/s
95th percentile per-packet one-way delay: 118.782 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 42.91 Mbit/s
95th percentile per-packet one-way delay: 118.782 ms
Loss rate: 0.31%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-07-09 20:55:18

End at: 2018-07-09 20:55:48

Local clock offset: 0.815 ms

Remote clock offset: -0.83 ms

Below is generated by plot.py at 2018-07-09 23:59:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.14 Mbit/s

95th percentile per-packet one-way delay: 110.963 ms

Loss rate: 2.26%

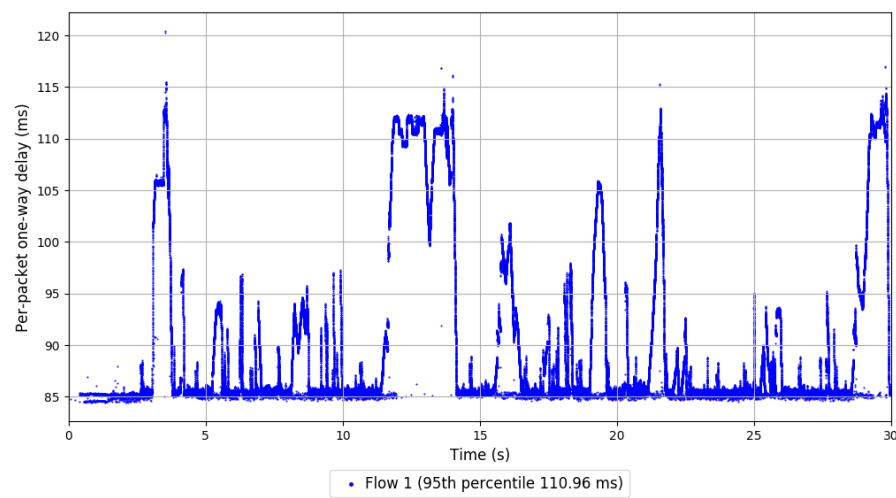
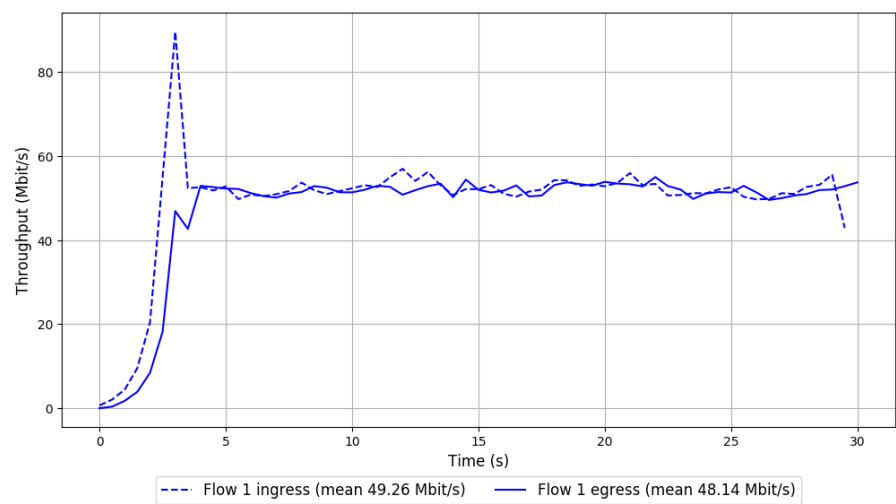
-- Flow 1:

Average throughput: 48.14 Mbit/s

95th percentile per-packet one-way delay: 110.963 ms

Loss rate: 2.26%

Run 3: Report of PCC-Vivace — Data Link

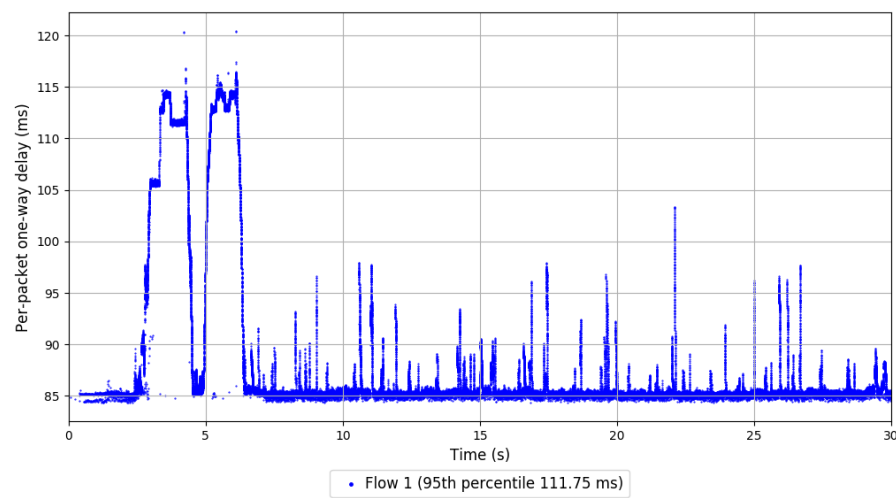
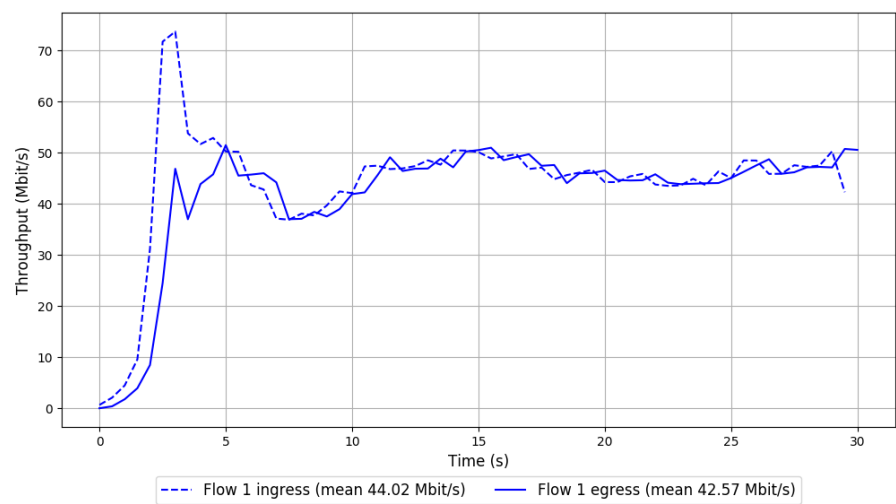


Run 4: Statistics of PCC-Vivace

Start at: 2018-07-09 21:17:45
End at: 2018-07-09 21:18:15
Local clock offset: 1.107 ms
Remote clock offset: -0.696 ms

Below is generated by plot.py at 2018-07-09 23:59:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 42.57 Mbit/s
95th percentile per-packet one-way delay: 111.747 ms
Loss rate: 3.29%
-- Flow 1:
Average throughput: 42.57 Mbit/s
95th percentile per-packet one-way delay: 111.747 ms
Loss rate: 3.29%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-07-09 21:40:05

End at: 2018-07-09 21:40:35

Local clock offset: 1.327 ms

Remote clock offset: -0.217 ms

Below is generated by plot.py at 2018-07-09 23:59:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.01 Mbit/s

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

Loss rate: 1.80%

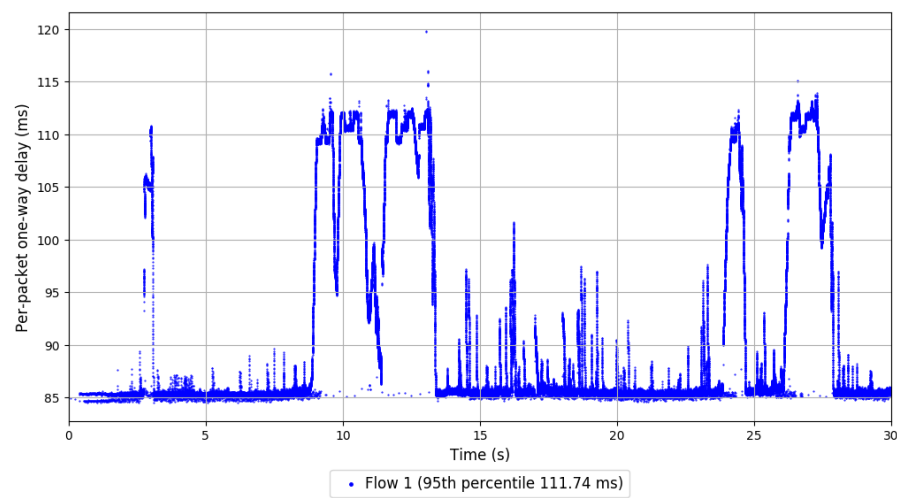
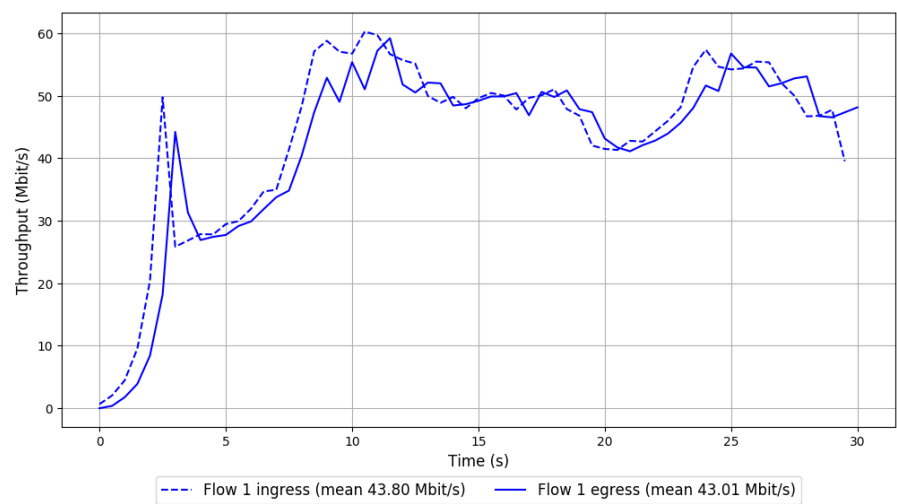
-- Flow 1:

Average throughput: 43.01 Mbit/s

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

Loss rate: 1.80%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-07-09 22:02:40

End at: 2018-07-09 22:03:10

Local clock offset: 1.377 ms

Remote clock offset: 0.455 ms

Below is generated by plot.py at 2018-07-09 23:59:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.47 Mbit/s

95th percentile per-packet one-way delay: 113.296 ms

Loss rate: 2.52%

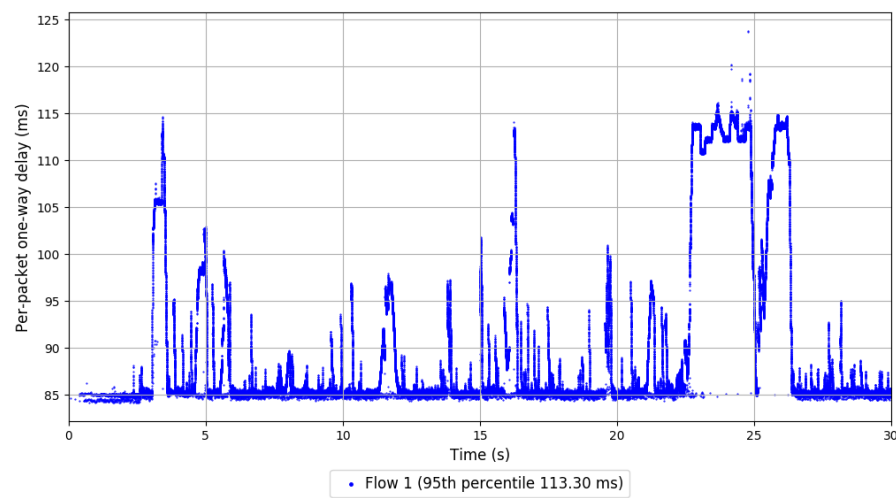
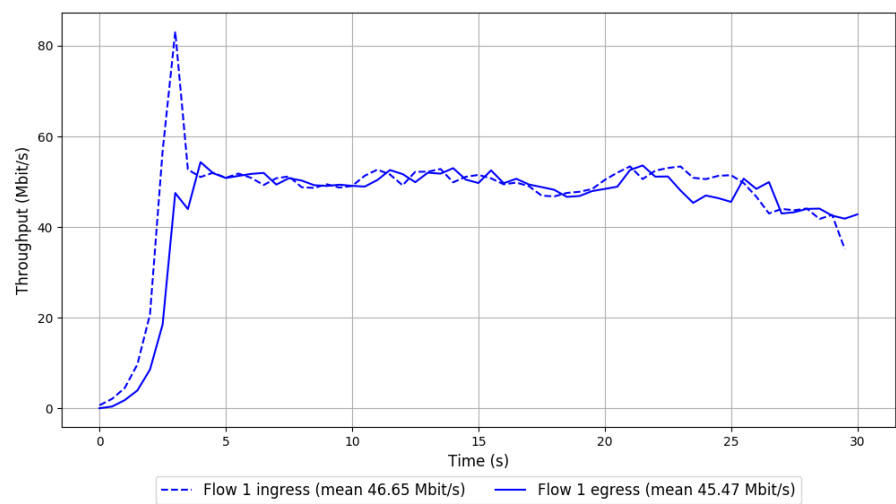
-- Flow 1:

Average throughput: 45.47 Mbit/s

95th percentile per-packet one-way delay: 113.296 ms

Loss rate: 2.52%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-07-09 22:25:05

End at: 2018-07-09 22:25:35

Local clock offset: 1.457 ms

Remote clock offset: 1.071 ms

Below is generated by plot.py at 2018-07-09 23:59:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.04 Mbit/s

95th percentile per-packet one-way delay: 103.662 ms

Loss rate: 1.83%

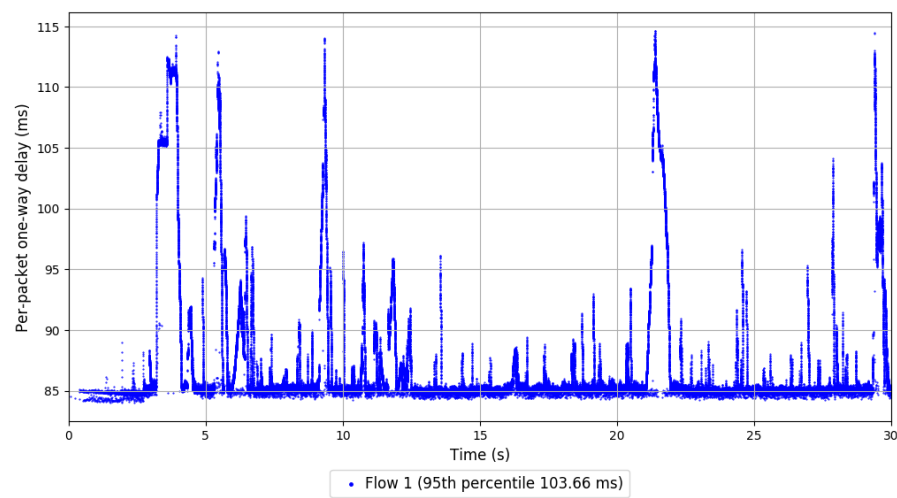
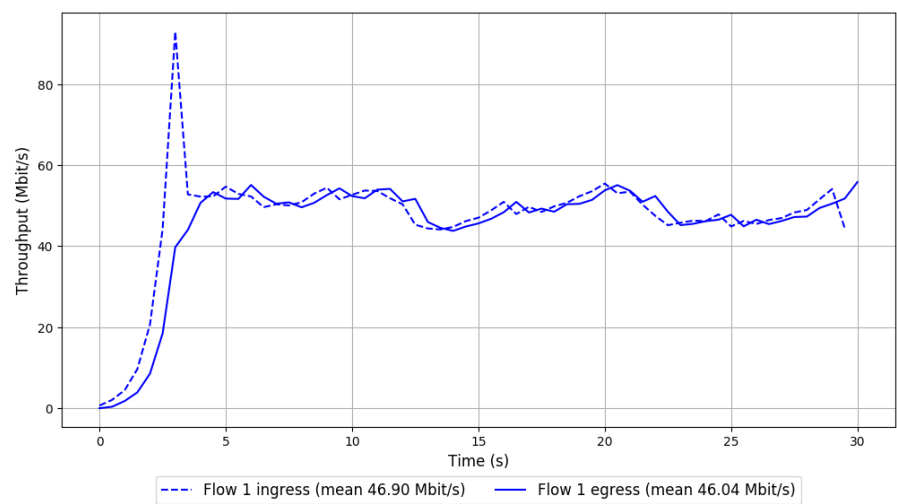
-- Flow 1:

Average throughput: 46.04 Mbit/s

95th percentile per-packet one-way delay: 103.662 ms

Loss rate: 1.83%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-09 22:47:33

End at: 2018-07-09 22:48:03

Local clock offset: 1.382 ms

Remote clock offset: 0.474 ms

Below is generated by plot.py at 2018-07-09 23:59:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.19 Mbit/s

95th percentile per-packet one-way delay: 112.400 ms

Loss rate: 1.69%

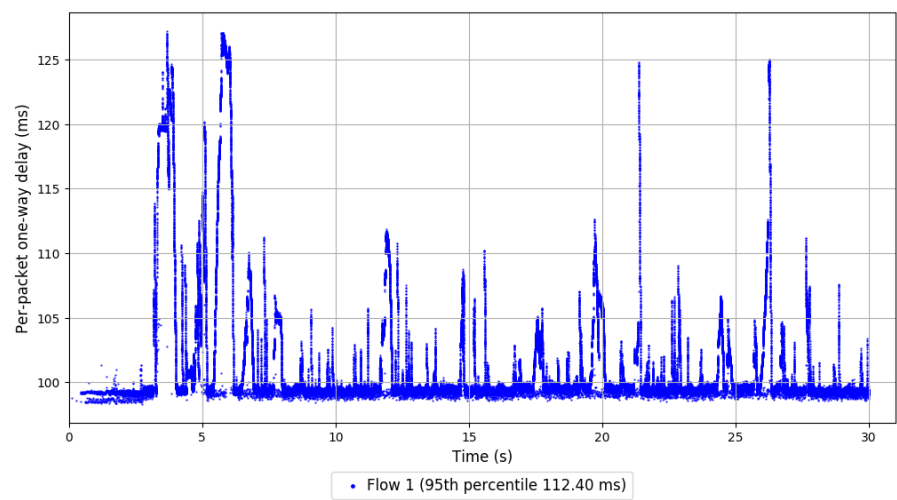
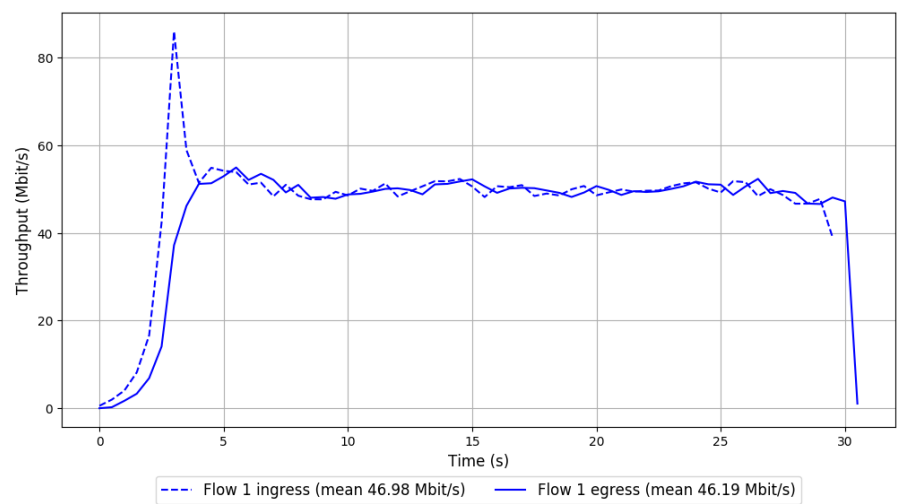
-- Flow 1:

Average throughput: 46.19 Mbit/s

95th percentile per-packet one-way delay: 112.400 ms

Loss rate: 1.69%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-09 23:10:00

End at: 2018-07-09 23:10:30

Local clock offset: 1.583 ms

Remote clock offset: 0.133 ms

Below is generated by plot.py at 2018-07-09 23:59:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.59 Mbit/s

95th percentile per-packet one-way delay: 123.956 ms

Loss rate: 0.62%

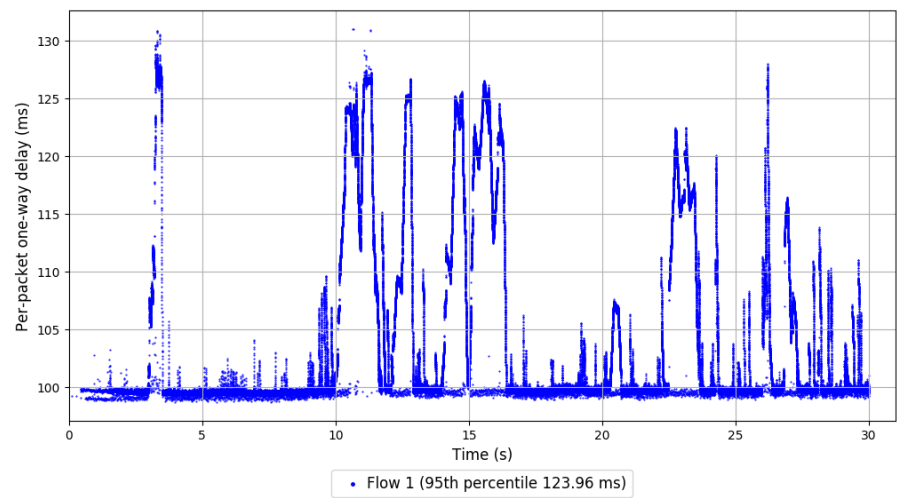
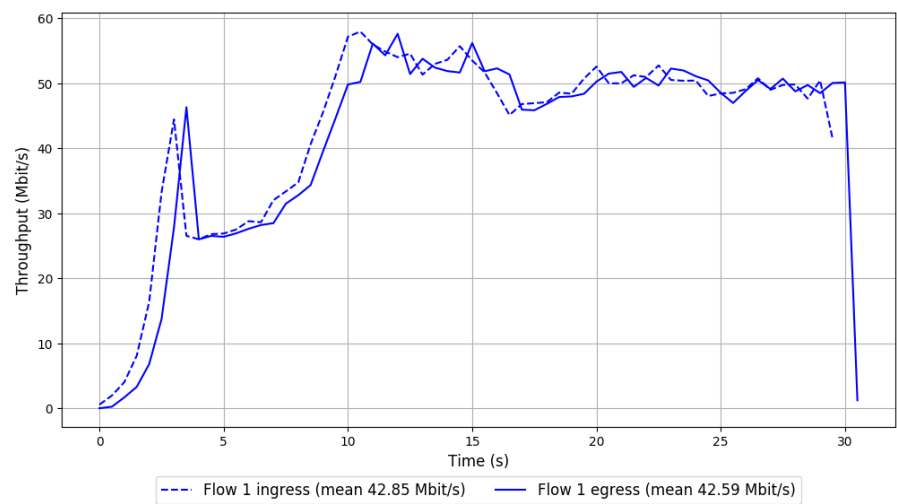
-- Flow 1:

Average throughput: 42.59 Mbit/s

95th percentile per-packet one-way delay: 123.956 ms

Loss rate: 0.62%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-09 23:32:20

End at: 2018-07-09 23:32:50

Local clock offset: 1.734 ms

Remote clock offset: -0.362 ms

Below is generated by plot.py at 2018-07-09 23:59:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.62 Mbit/s

95th percentile per-packet one-way delay: 124.774 ms

Loss rate: 2.69%

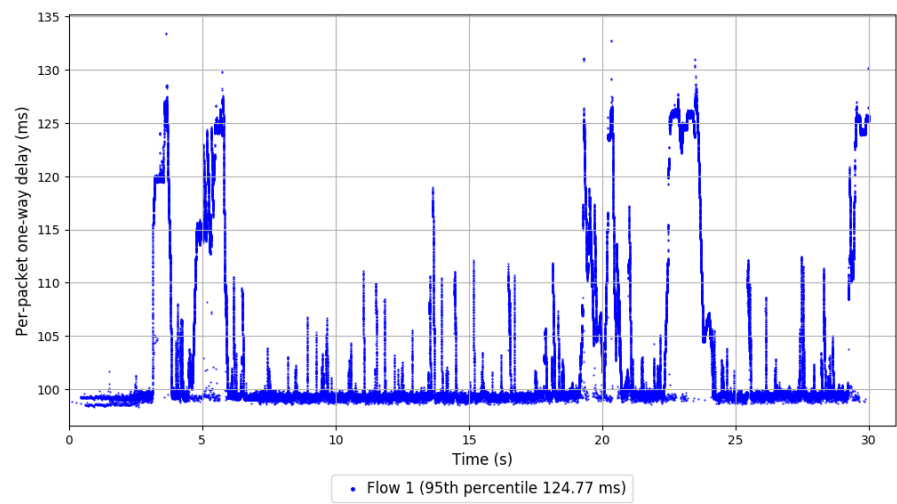
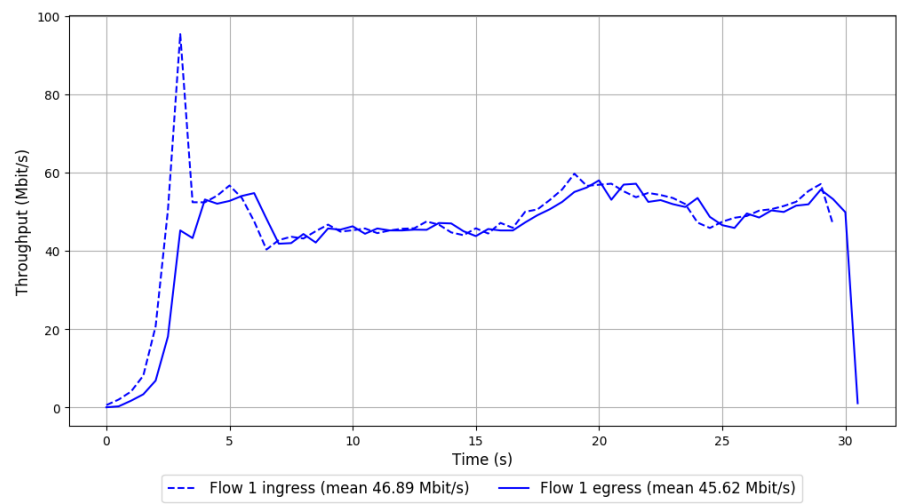
-- Flow 1:

Average throughput: 45.62 Mbit/s

95th percentile per-packet one-way delay: 124.774 ms

Loss rate: 2.69%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-07-09 20:07:57

End at: 2018-07-09 20:08:27

Local clock offset: 1.265 ms

Remote clock offset: 0.151 ms

Below is generated by plot.py at 2018-07-09 23:59:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 85.577 ms

Loss rate: 0.00%

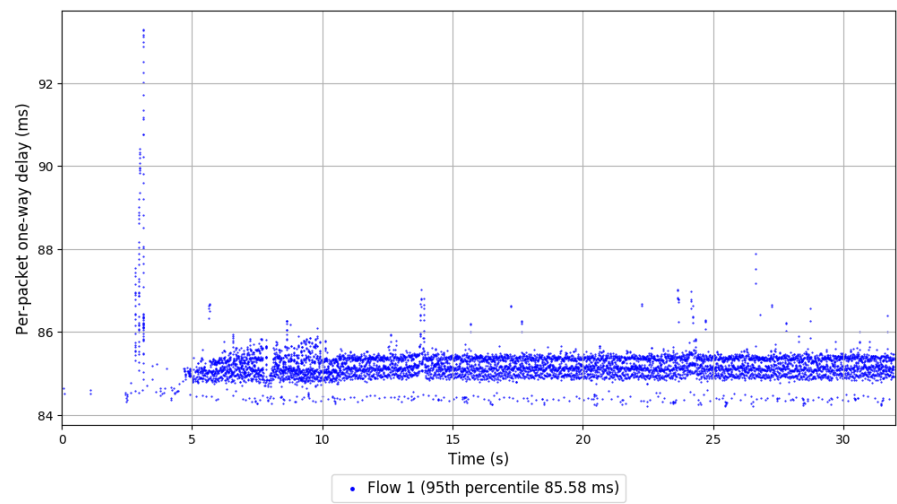
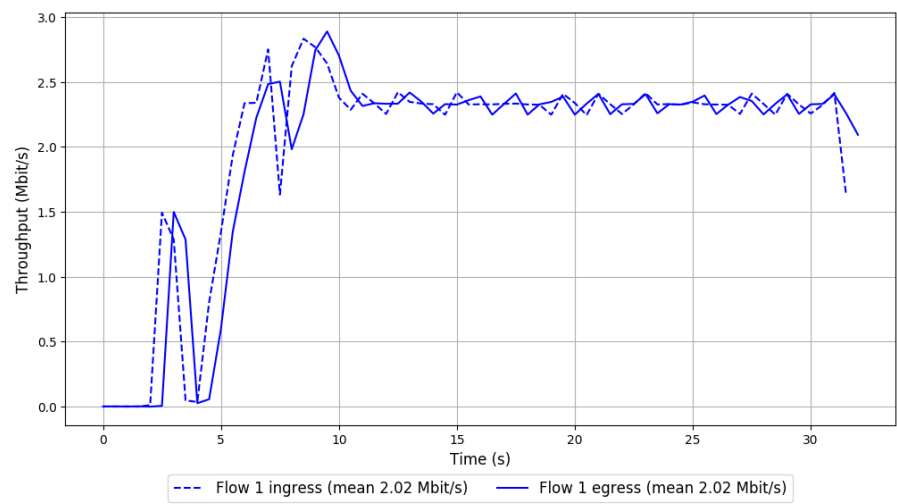
-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 85.577 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

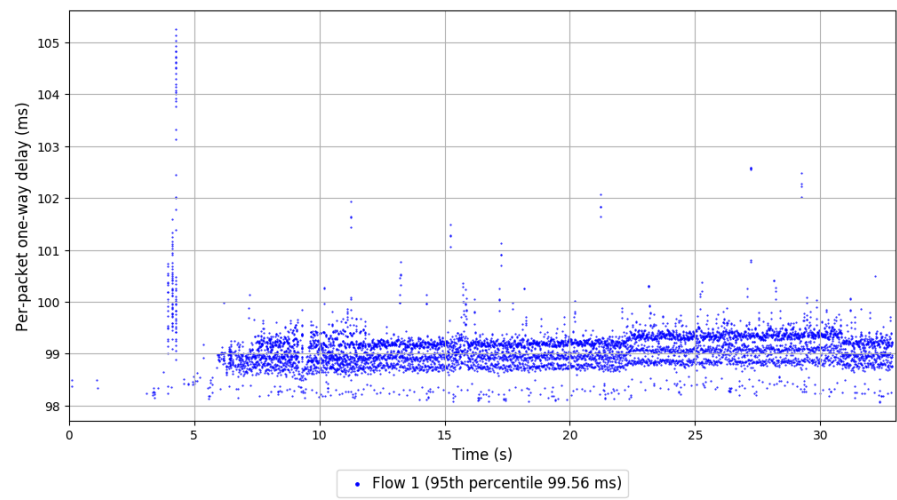
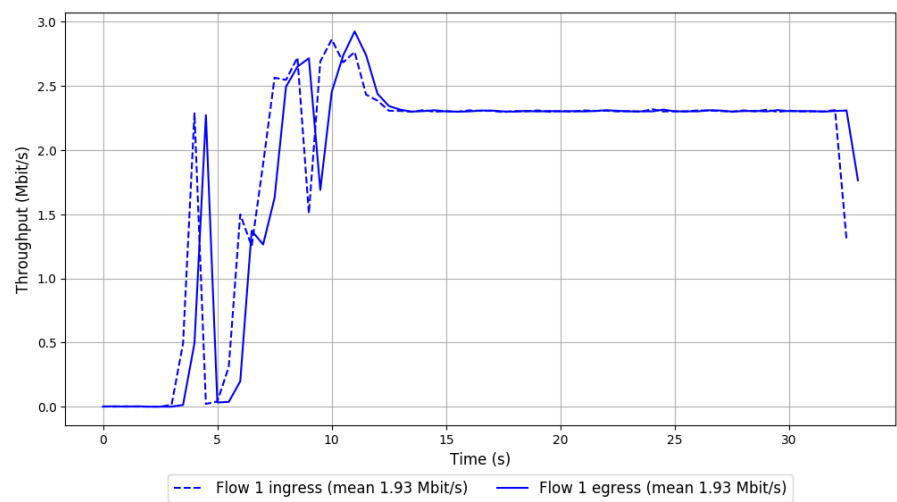


Run 2: Statistics of WebRTC media

Start at: 2018-07-09 20:30:21
End at: 2018-07-09 20:30:51
Local clock offset: 1.677 ms
Remote clock offset: -0.755 ms

Below is generated by plot.py at 2018-07-09 23:59:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 99.556 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 99.556 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-07-09 20:57:59

End at: 2018-07-09 20:58:29

Local clock offset: 1.092 ms

Remote clock offset: -0.88 ms

Below is generated by plot.py at 2018-07-09 23:59:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 85.313 ms

Loss rate: 0.00%

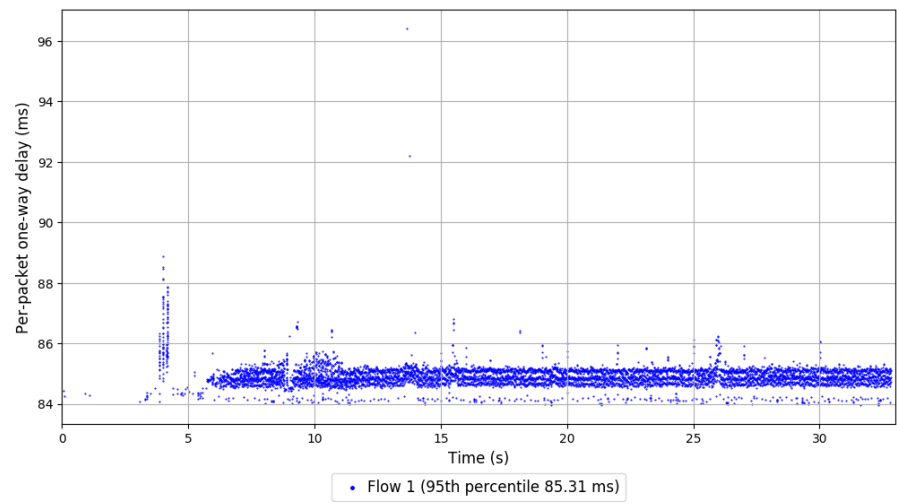
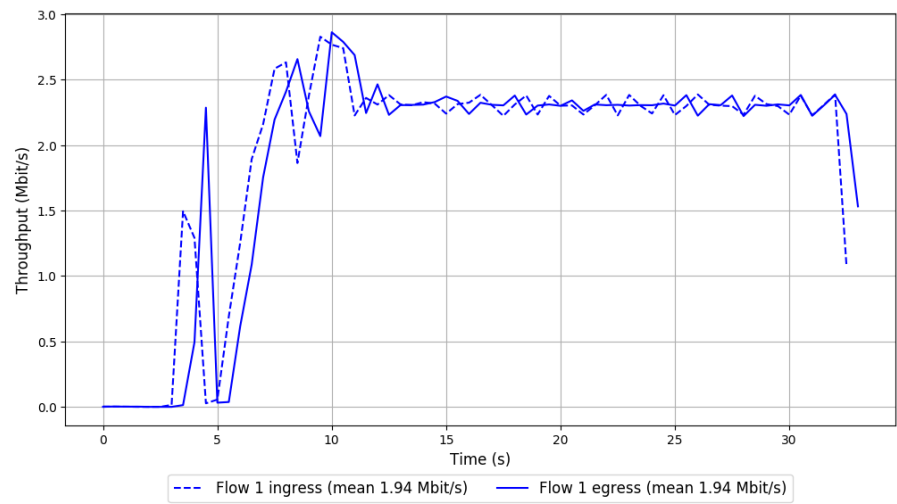
-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 85.313 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

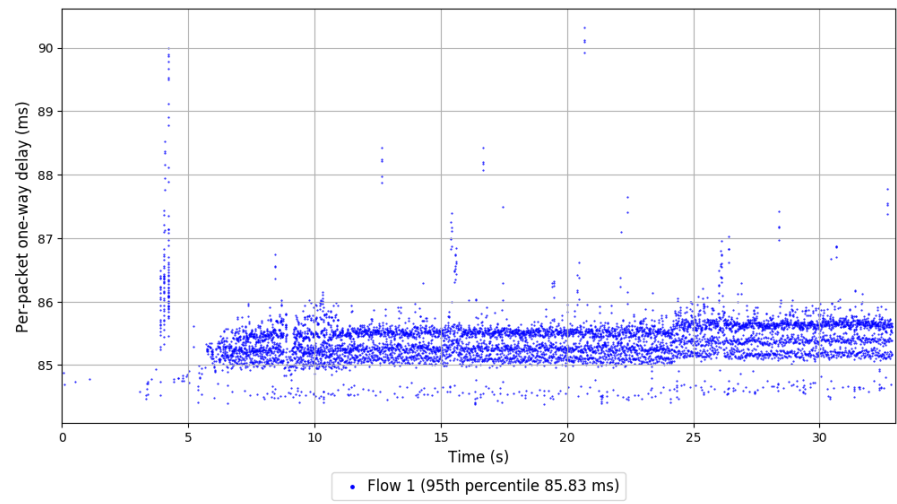
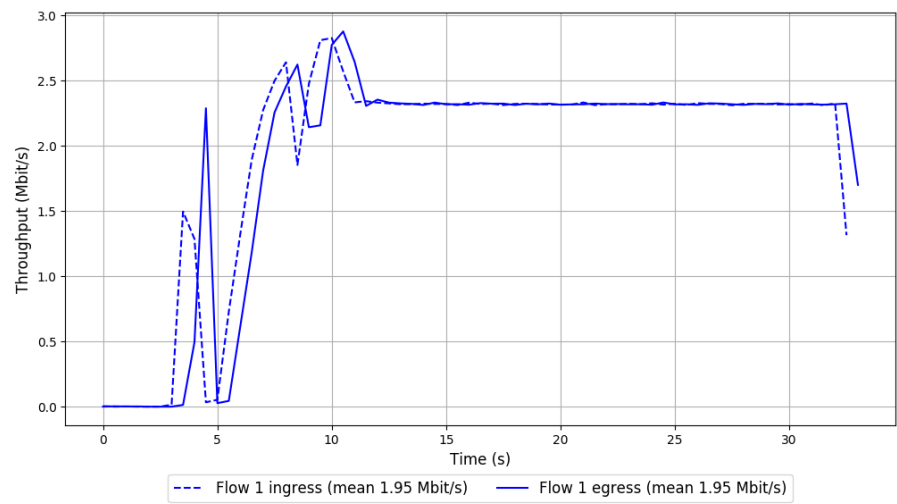


Run 4: Statistics of WebRTC media

Start at: 2018-07-09 21:20:26
End at: 2018-07-09 21:20:56
Local clock offset: 1.166 ms
Remote clock offset: -0.732 ms

Below is generated by plot.py at 2018-07-09 23:59:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 85.830 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 85.830 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

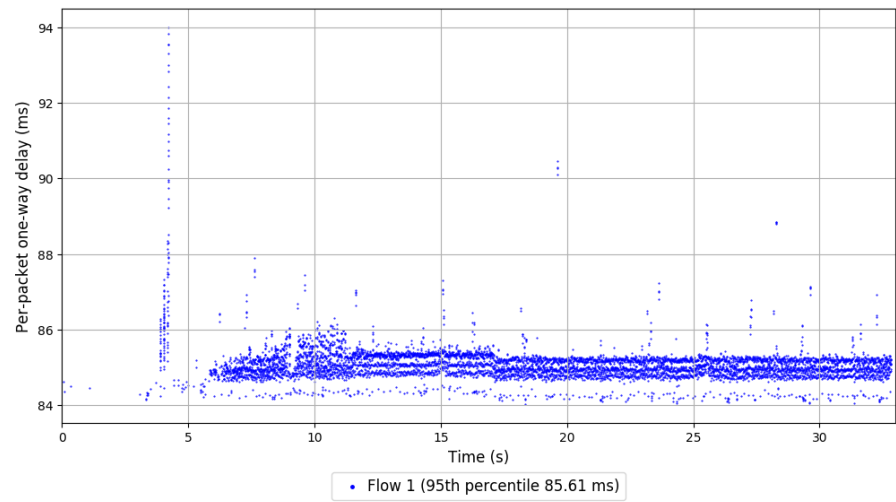
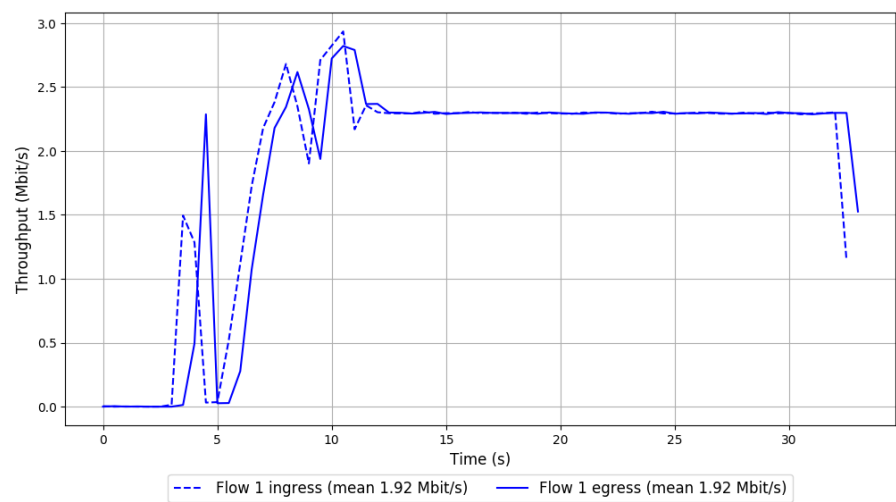


Run 5: Statistics of WebRTC media

Start at: 2018-07-09 21:42:47
End at: 2018-07-09 21:43:17
Local clock offset: 1.526 ms
Remote clock offset: -0.127 ms

Below is generated by plot.py at 2018-07-09 23:59:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.92 Mbit/s
95th percentile per-packet one-way delay: 85.606 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.92 Mbit/s
95th percentile per-packet one-way delay: 85.606 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-09 22:05:21

End at: 2018-07-09 22:05:52

Local clock offset: 1.385 ms

Remote clock offset: 0.45 ms

Below is generated by plot.py at 2018-07-09 23:59:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 85.132 ms

Loss rate: 0.00%

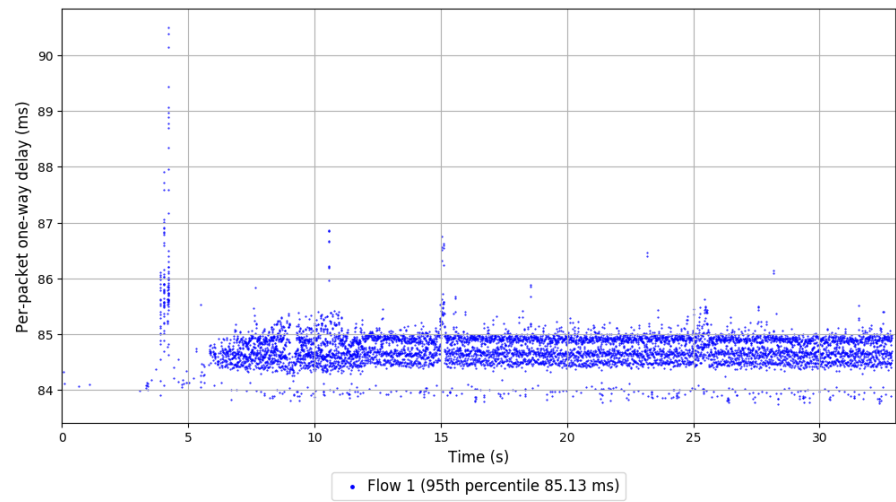
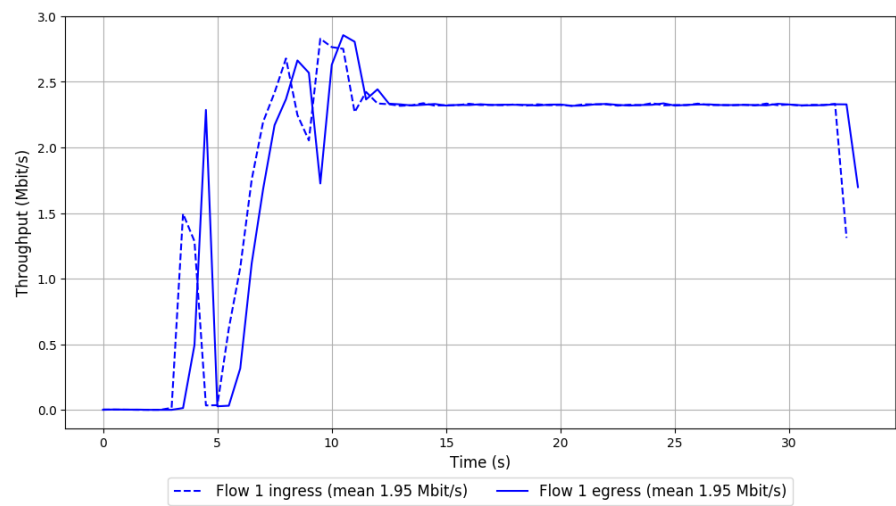
-- Flow 1:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 85.132 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-07-09 22:27:47

End at: 2018-07-09 22:28:17

Local clock offset: 1.446 ms

Remote clock offset: 1.061 ms

Below is generated by plot.py at 2018-07-09 23:59:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 85.838 ms

Loss rate: 0.00%

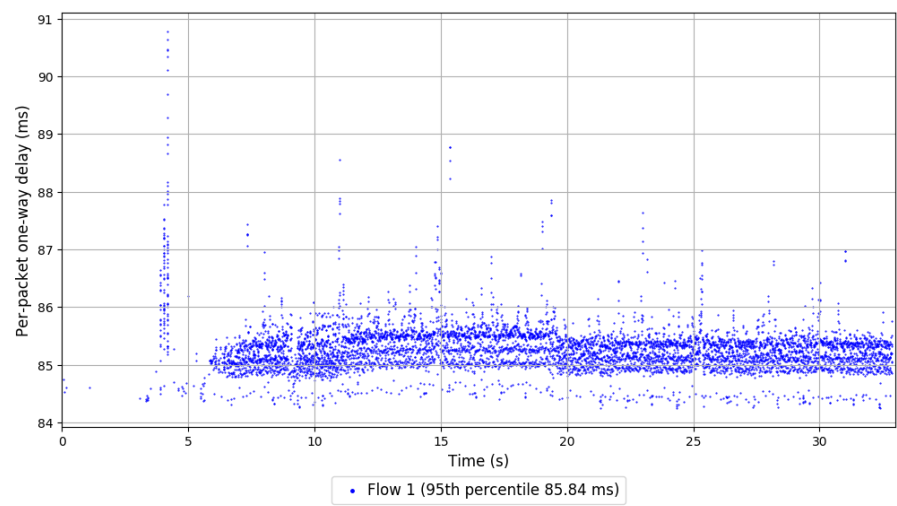
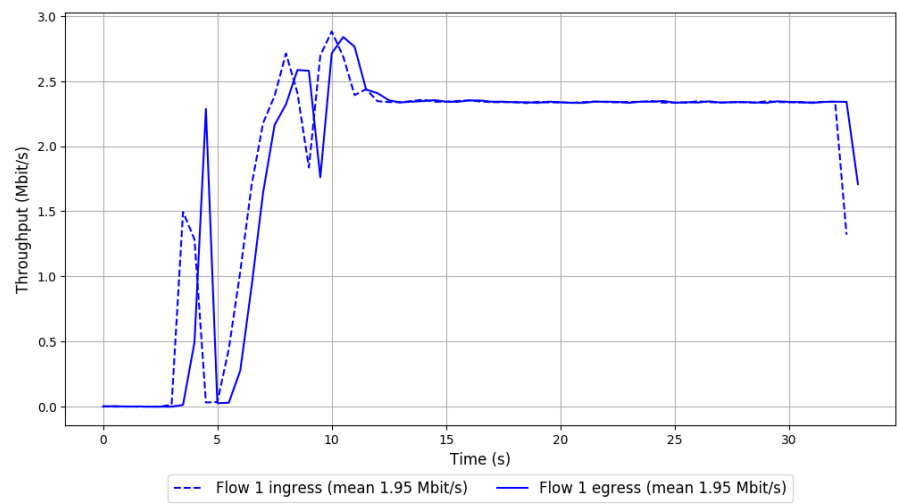
-- Flow 1:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 85.838 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-07-09 22:50:15

End at: 2018-07-09 22:50:45

Local clock offset: 1.526 ms

Remote clock offset: 0.491 ms

Below is generated by plot.py at 2018-07-09 23:59:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 85.494 ms

Loss rate: 0.00%

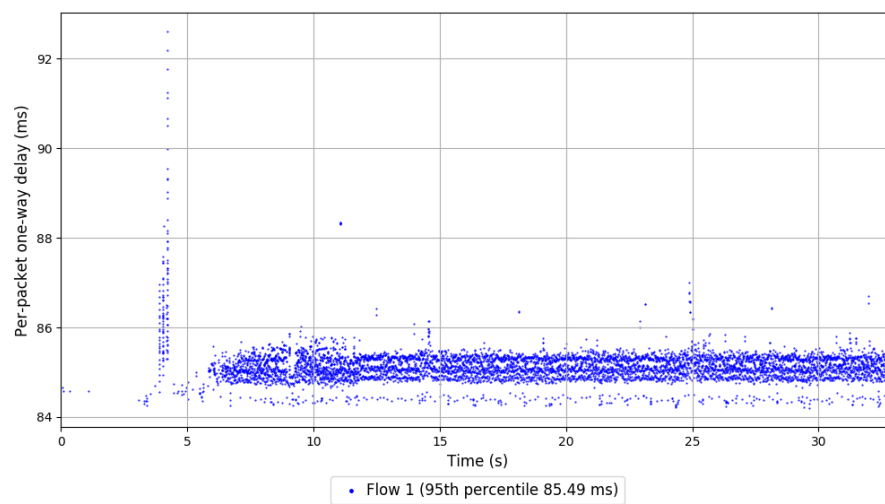
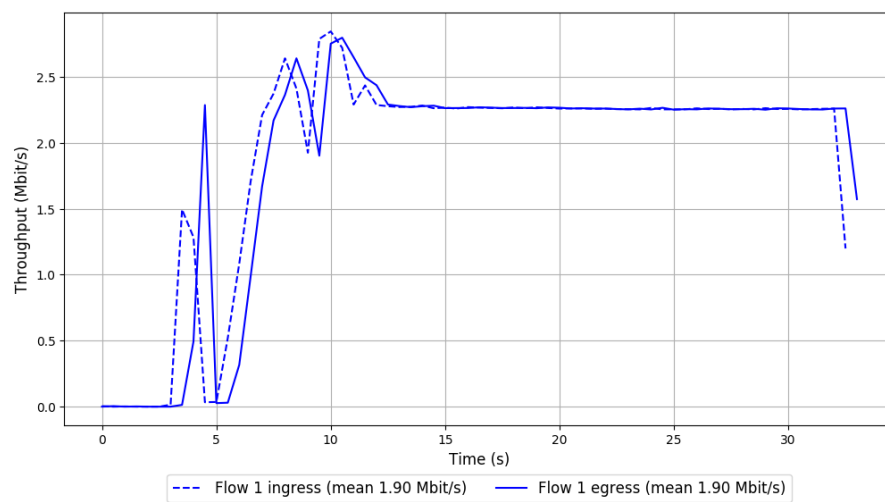
-- Flow 1:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 85.494 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-09 23:12:40

End at: 2018-07-09 23:13:10

Local clock offset: 1.731 ms

Remote clock offset: 0.02 ms

Below is generated by plot.py at 2018-07-09 23:59:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 99.787 ms

Loss rate: 0.00%

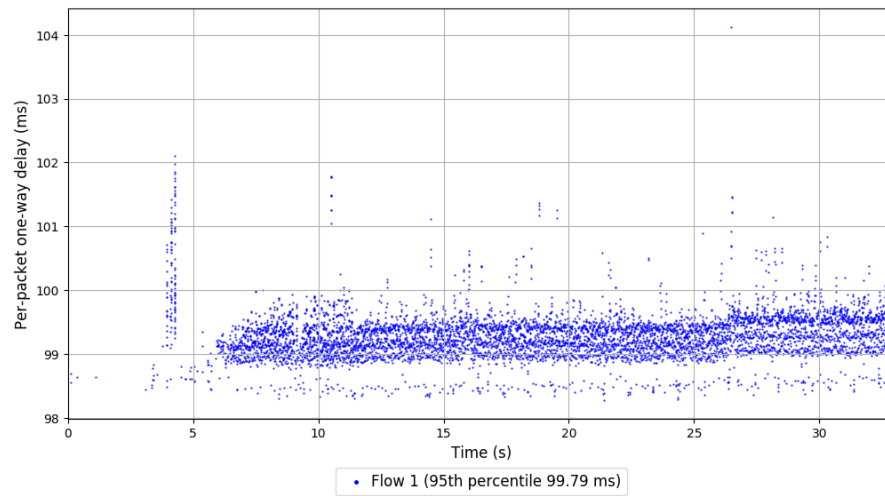
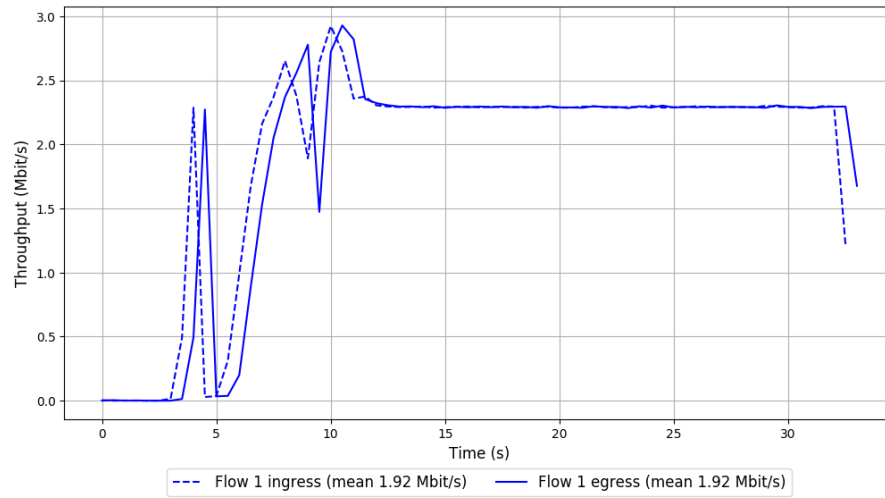
-- Flow 1:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 99.787 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-09 23:35:01

End at: 2018-07-09 23:35:31

Local clock offset: 1.488 ms

Remote clock offset: -0.45 ms

Below is generated by plot.py at 2018-07-09 23:59:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 85.975 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 85.975 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

