

Pantheon Report

Generated at 2018-05-25 04:43:53 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

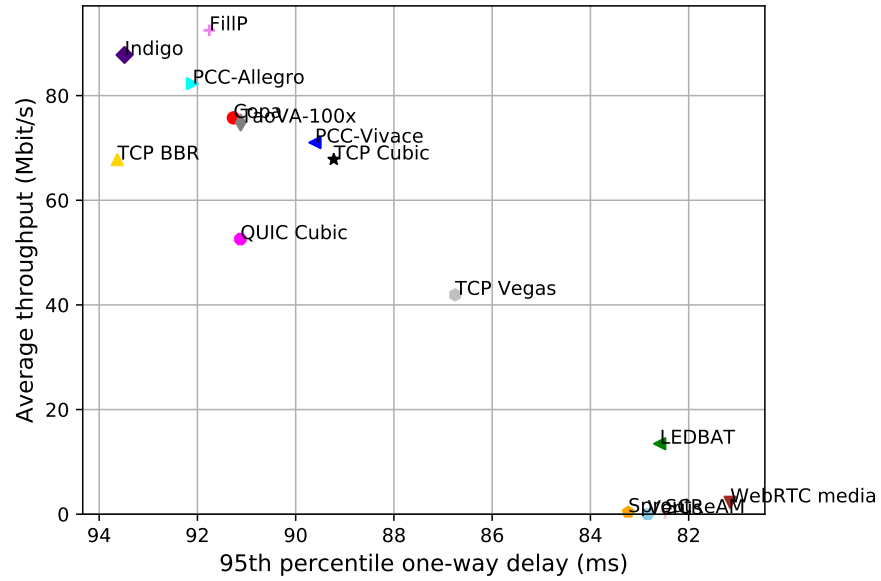
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

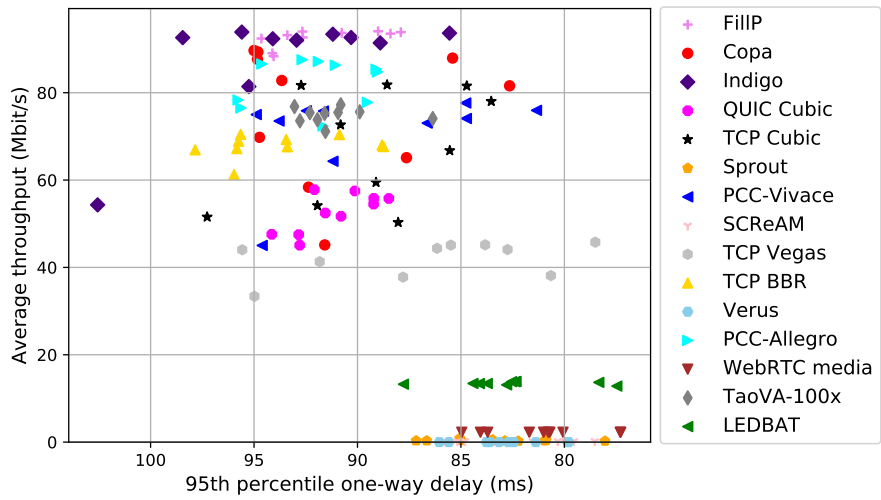
Git summary:

```
branch: master @ 0088822873ea99180f63545a341ef069f40efe59
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	67.78	93.63	0.75
Copa	10	75.74	91.27	0.80
TCP Cubic	10	67.80	89.22	0.56
FillP	10	92.48	91.76	0.59
Indigo	10	87.77	93.48	1.05
LEDBAT	10	13.47	82.59	1.09
PCC-Allegro	10	82.28	92.10	0.76
PCC-Expr	0	N/A	N/A	N/A
QUIC Cubic	10	52.58	91.13	0.79
SCReAM	10	0.22	82.48	0.59
Sprout	10	0.39	83.23	0.45
TaoVA-100x	10	74.85	91.12	0.51
TCP Vegas	10	41.92	86.75	0.58
Verus	10	0.00	82.83	0.00
PCC-Vivace	10	71.03	89.61	0.67
WebRTC media	10	2.26	81.16	0.61

Run 1: Statistics of TCP BBR

Start at: 2018-05-25 01:32:21

End at: 2018-05-25 01:32:51

Local clock offset: -4.254 ms

Remote clock offset: 3.248 ms

Below is generated by plot.py at 2018-05-25 04:30:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.27 Mbit/s

95th percentile per-packet one-way delay: 95.965 ms

Loss rate: 1.15%

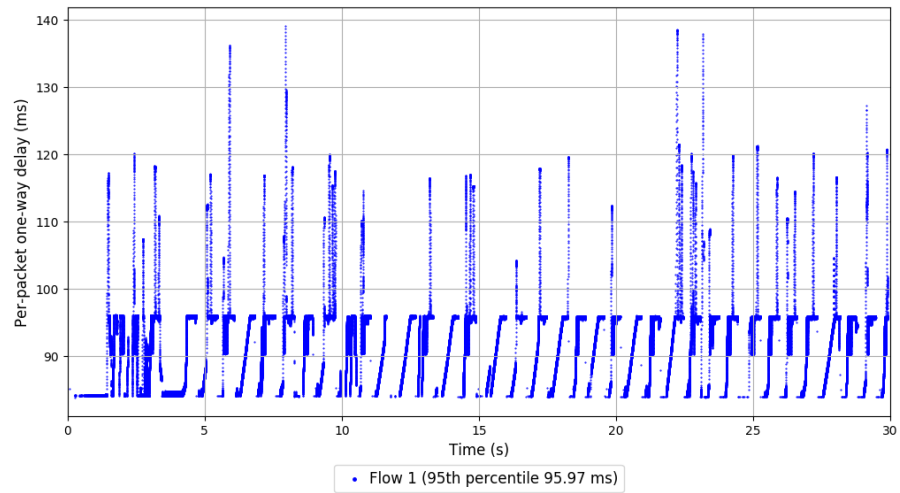
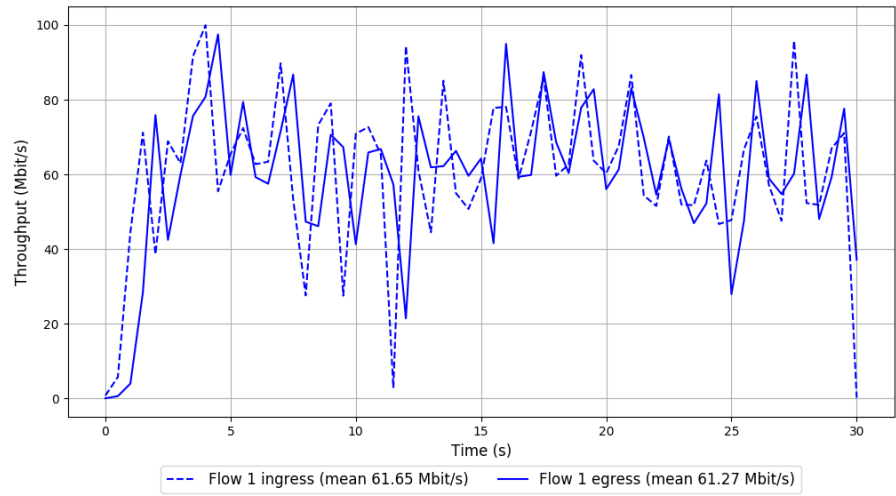
-- Flow 1:

Average throughput: 61.27 Mbit/s

95th percentile per-packet one-way delay: 95.965 ms

Loss rate: 1.15%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-05-25 01:50:45

End at: 2018-05-25 01:51:15

Local clock offset: -1.234 ms

Remote clock offset: 8.882 ms

Below is generated by plot.py at 2018-05-25 04:31:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.99 Mbit/s

95th percentile per-packet one-way delay: 88.813 ms

Loss rate: 0.26%

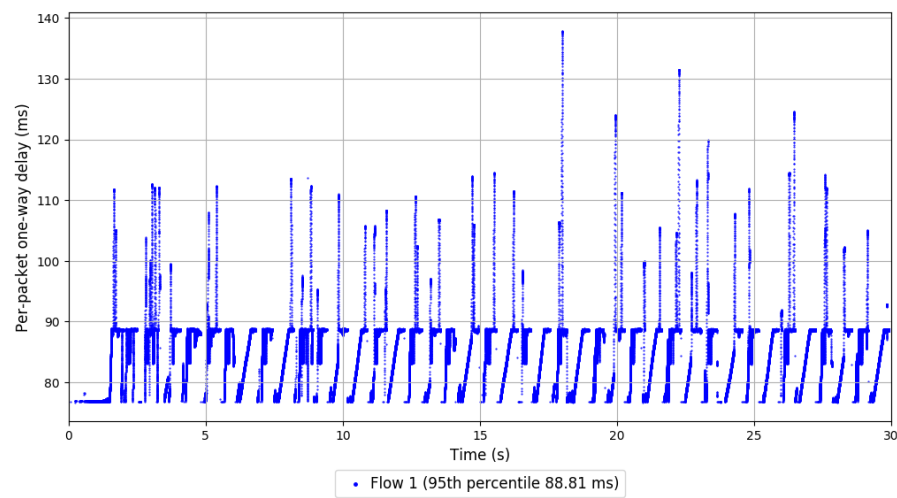
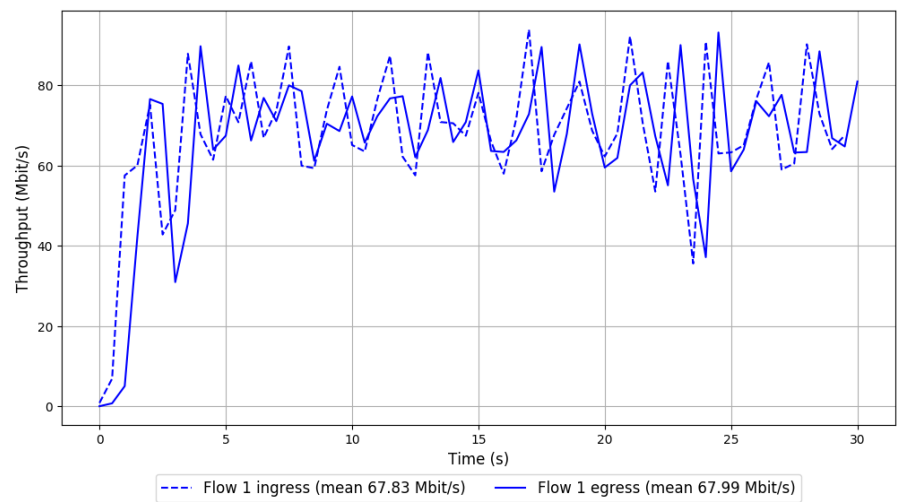
-- Flow 1:

Average throughput: 67.99 Mbit/s

95th percentile per-packet one-way delay: 88.813 ms

Loss rate: 0.26%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-05-25 02:09:06

End at: 2018-05-25 02:09:36

Local clock offset: -5.751 ms

Remote clock offset: 8.106 ms

Below is generated by plot.py at 2018-05-25 04:31:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.63 Mbit/s

95th percentile per-packet one-way delay: 93.390 ms

Loss rate: 0.98%

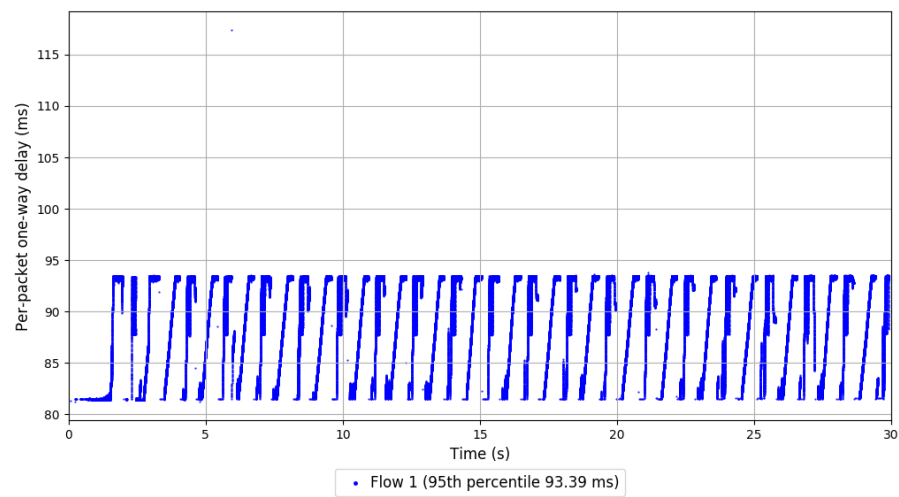
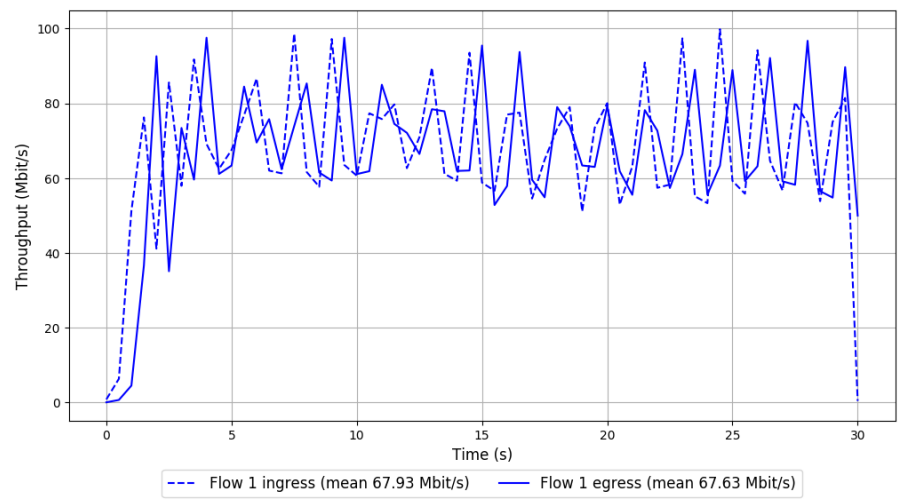
-- Flow 1:

Average throughput: 67.63 Mbit/s

95th percentile per-packet one-way delay: 93.390 ms

Loss rate: 0.98%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-05-25 02:27:34

End at: 2018-05-25 02:28:04

Local clock offset: -6.298 ms

Remote clock offset: 6.985 ms

Below is generated by plot.py at 2018-05-25 04:31:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.29 Mbit/s

95th percentile per-packet one-way delay: 93.445 ms

Loss rate: 0.99%

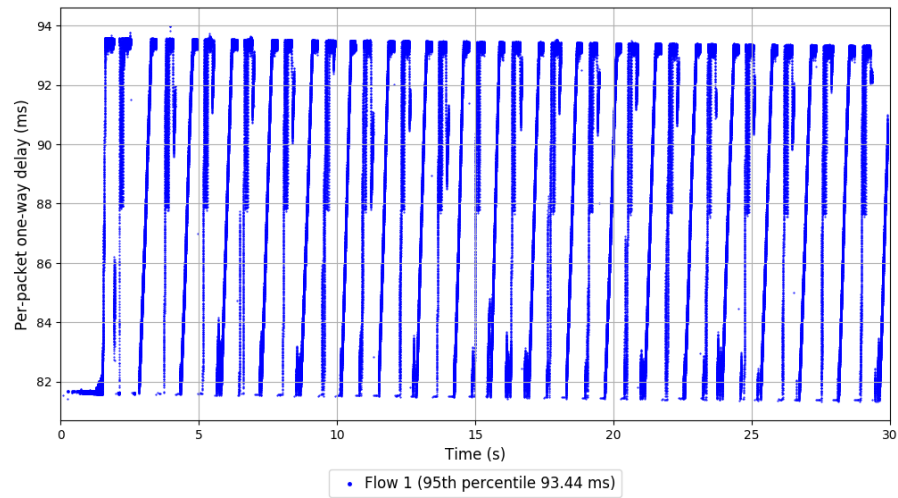
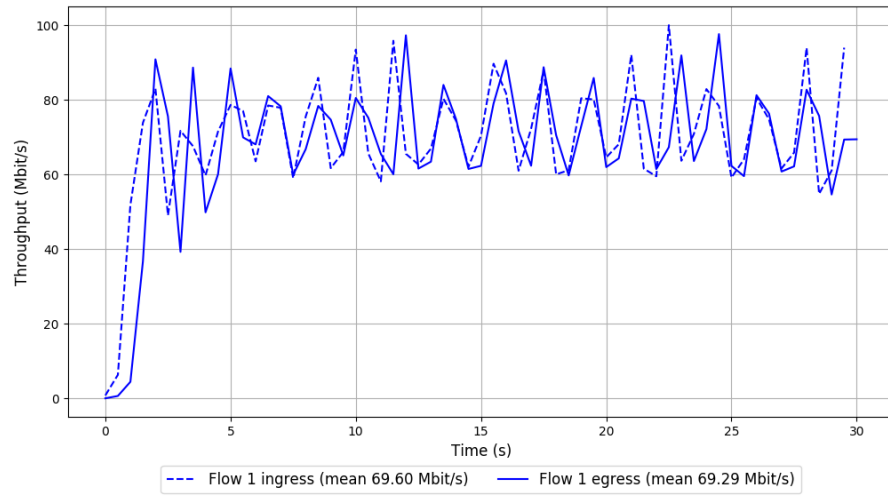
-- Flow 1:

Average throughput: 69.29 Mbit/s

95th percentile per-packet one-way delay: 93.445 ms

Loss rate: 0.99%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-05-25 02:46:01

End at: 2018-05-25 02:46:31

Local clock offset: -1.557 ms

Remote clock offset: 2.781 ms

Below is generated by plot.py at 2018-05-25 04:31:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.92 Mbit/s

95th percentile per-packet one-way delay: 97.846 ms

Loss rate: 0.57%

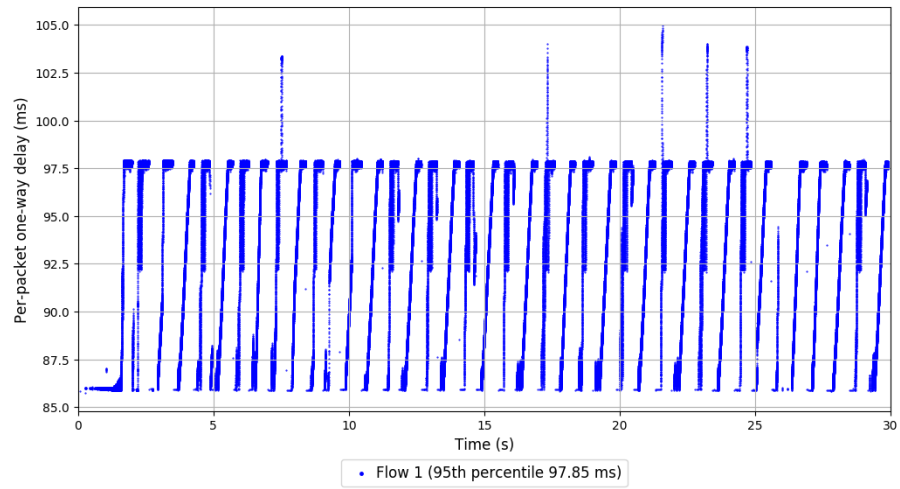
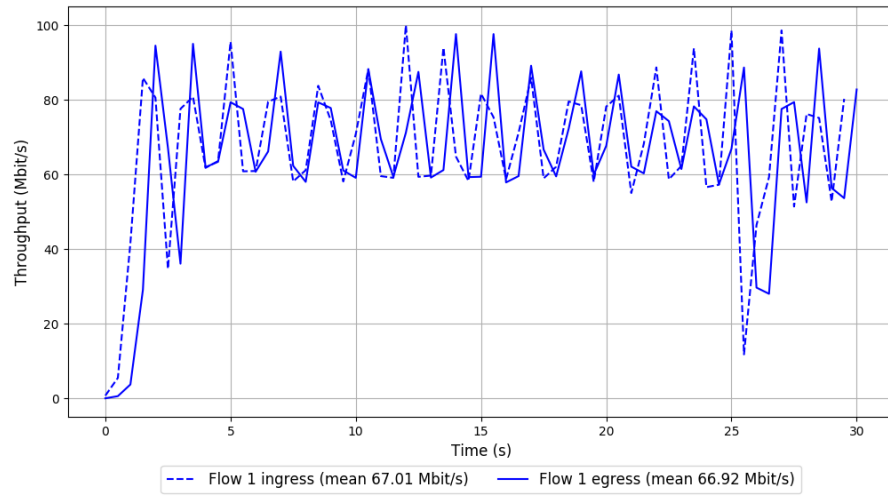
-- Flow 1:

Average throughput: 66.92 Mbit/s

95th percentile per-packet one-way delay: 97.846 ms

Loss rate: 0.57%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-05-25 03:04:29

End at: 2018-05-25 03:04:59

Local clock offset: -1.393 ms

Remote clock offset: 8.228 ms

Below is generated by plot.py at 2018-05-25 04:31:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.41 Mbit/s

95th percentile per-packet one-way delay: 90.873 ms

Loss rate: 0.74%

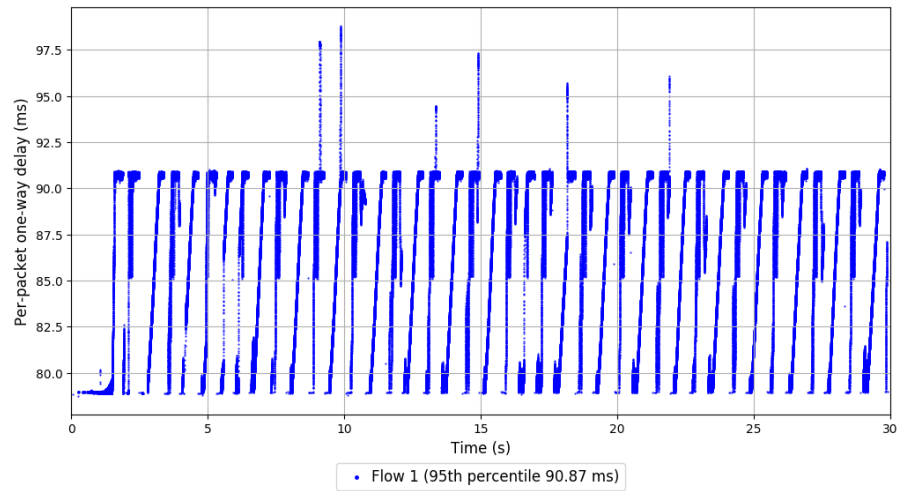
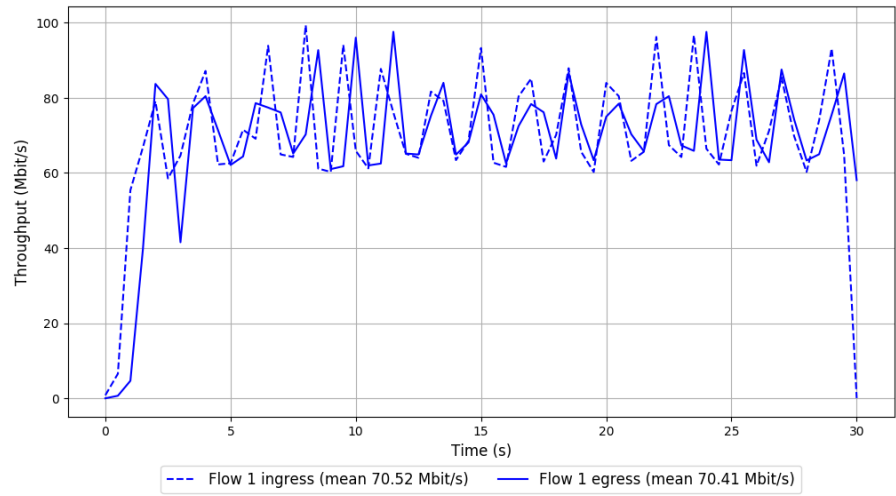
-- Flow 1:

Average throughput: 70.41 Mbit/s

95th percentile per-packet one-way delay: 90.873 ms

Loss rate: 0.74%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-05-25 03:22:57

End at: 2018-05-25 03:23:27

Local clock offset: -1.471 ms

Remote clock offset: 2.885 ms

Below is generated by plot.py at 2018-05-25 04:31:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.90 Mbit/s

95th percentile per-packet one-way delay: 95.746 ms

Loss rate: 0.96%

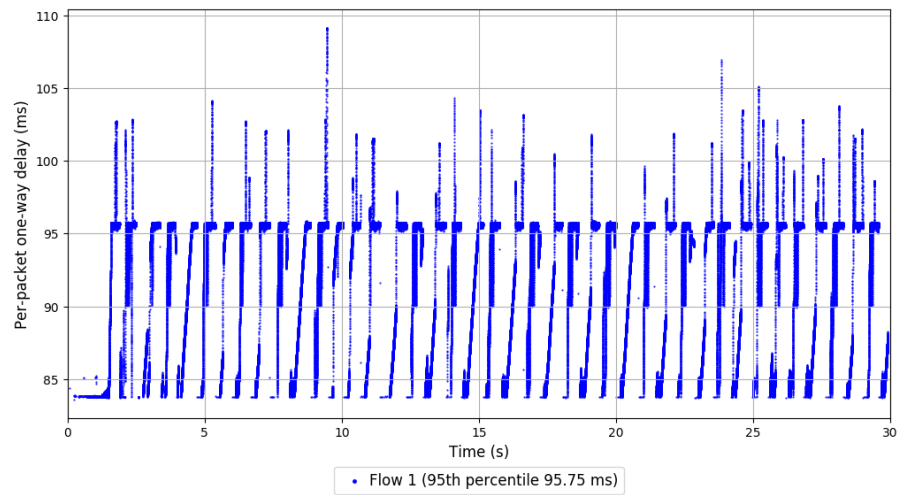
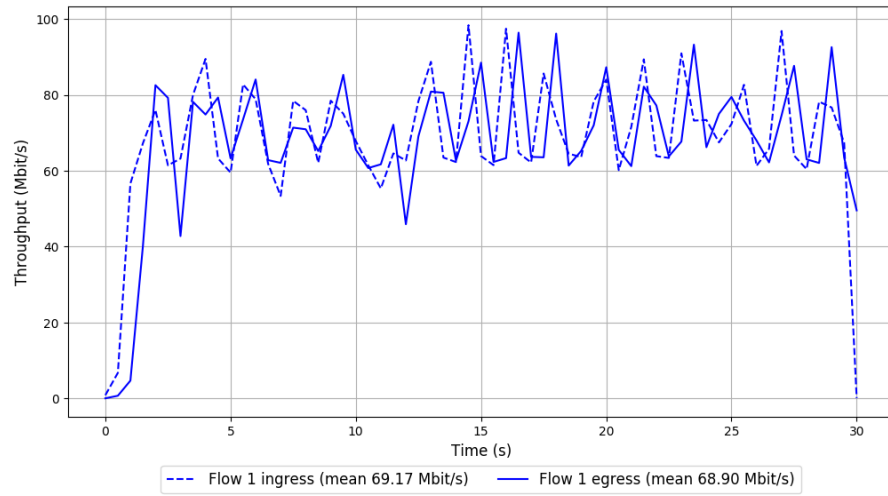
-- Flow 1:

Average throughput: 68.90 Mbit/s

95th percentile per-packet one-way delay: 95.746 ms

Loss rate: 0.96%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-05-25 03:41:26

End at: 2018-05-25 03:41:56

Local clock offset: -1.909 ms

Remote clock offset: 8.586 ms

Below is generated by plot.py at 2018-05-25 04:31:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.67 Mbit/s

95th percentile per-packet one-way delay: 88.743 ms

Loss rate: 0.49%

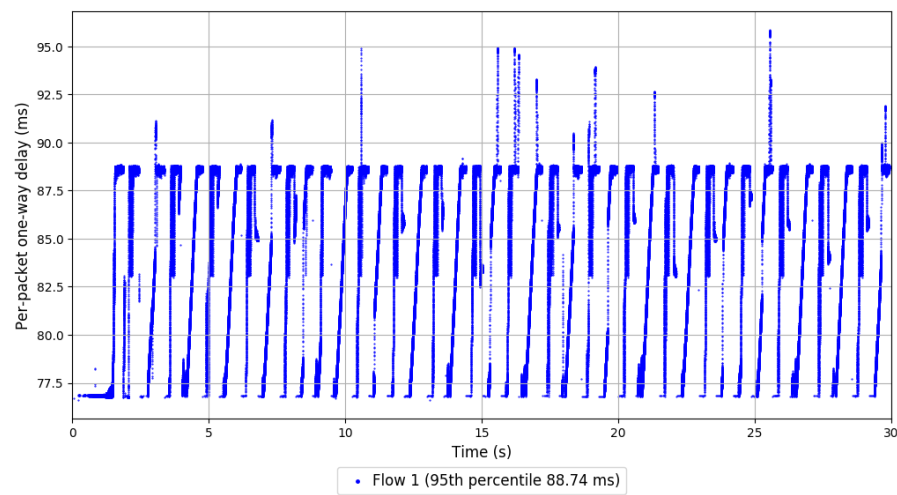
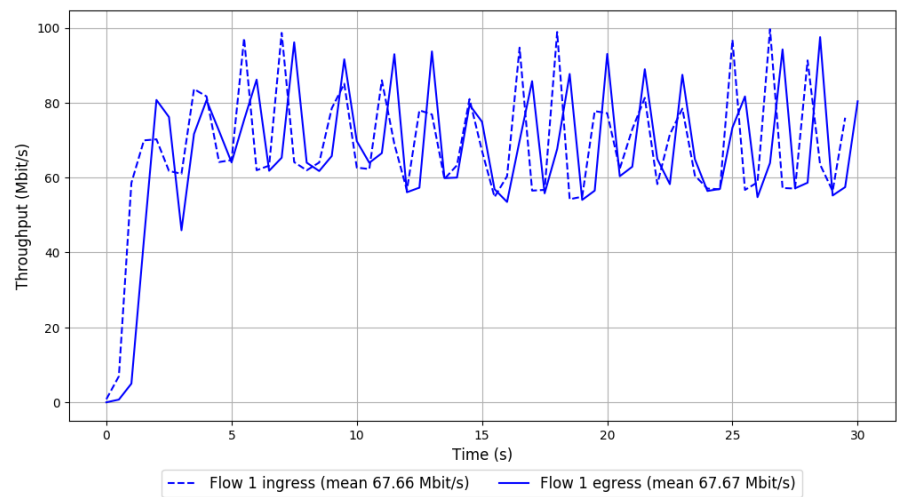
-- Flow 1:

Average throughput: 67.67 Mbit/s

95th percentile per-packet one-way delay: 88.743 ms

Loss rate: 0.49%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-05-25 03:59:59

End at: 2018-05-25 04:00:29

Local clock offset: -2.389 ms

Remote clock offset: 3.28 ms

Below is generated by plot.py at 2018-05-25 04:31:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.22 Mbit/s

95th percentile per-packet one-way delay: 95.832 ms

Loss rate: 1.02%

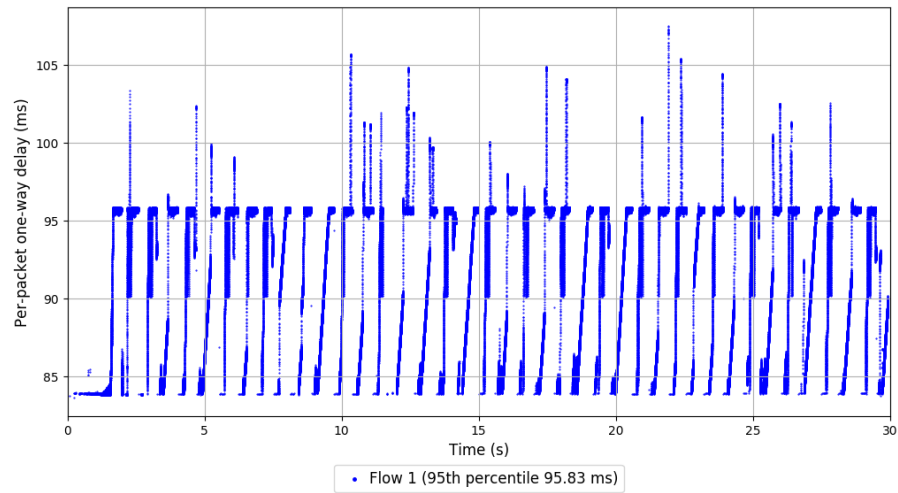
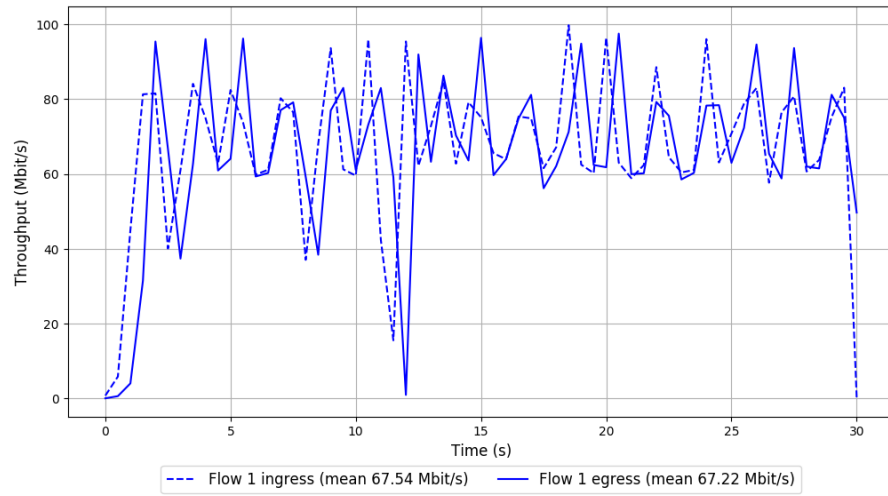
-- Flow 1:

Average throughput: 67.22 Mbit/s

95th percentile per-packet one-way delay: 95.832 ms

Loss rate: 1.02%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-05-25 04:18:27

End at: 2018-05-25 04:18:57

Local clock offset: -3.166 ms

Remote clock offset: 9.07 ms

Below is generated by plot.py at 2018-05-25 04:31:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.46 Mbit/s

95th percentile per-packet one-way delay: 95.647 ms

Loss rate: 0.38%

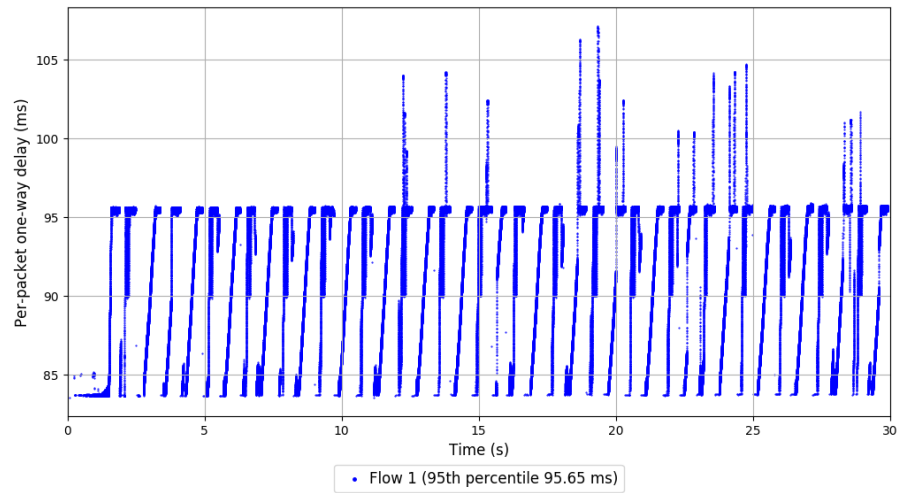
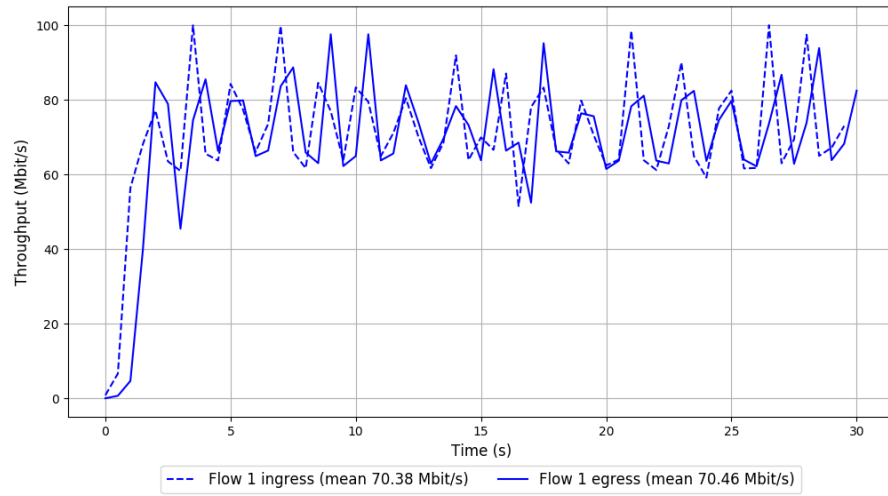
-- Flow 1:

Average throughput: 70.46 Mbit/s

95th percentile per-packet one-way delay: 95.647 ms

Loss rate: 0.38%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-05-25 01:24:17

End at: 2018-05-25 01:24:48

Local clock offset: -7.488 ms

Remote clock offset: 3.723 ms

Below is generated by plot.py at 2018-05-25 04:31:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.15 Mbit/s

95th percentile per-packet one-way delay: 91.583 ms

Loss rate: 0.70%

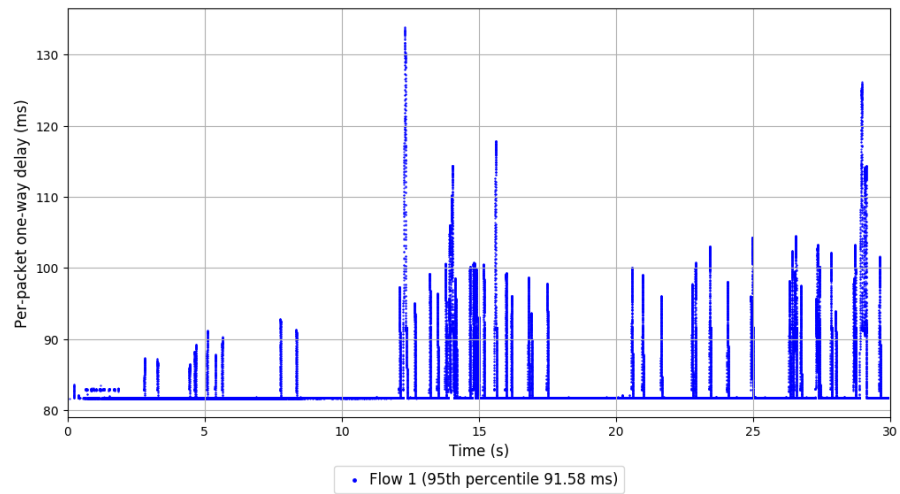
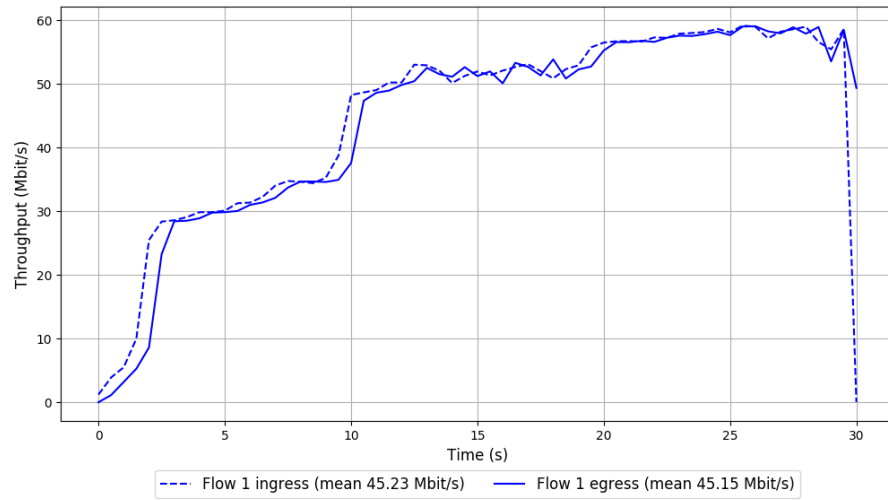
-- Flow 1:

Average throughput: 45.15 Mbit/s

95th percentile per-packet one-way delay: 91.583 ms

Loss rate: 0.70%

Run 1: Report of Copa — Data Link

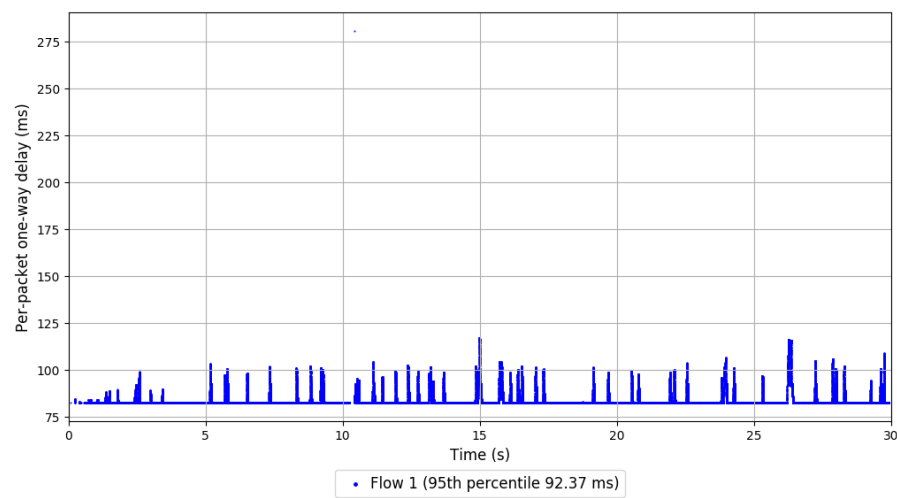
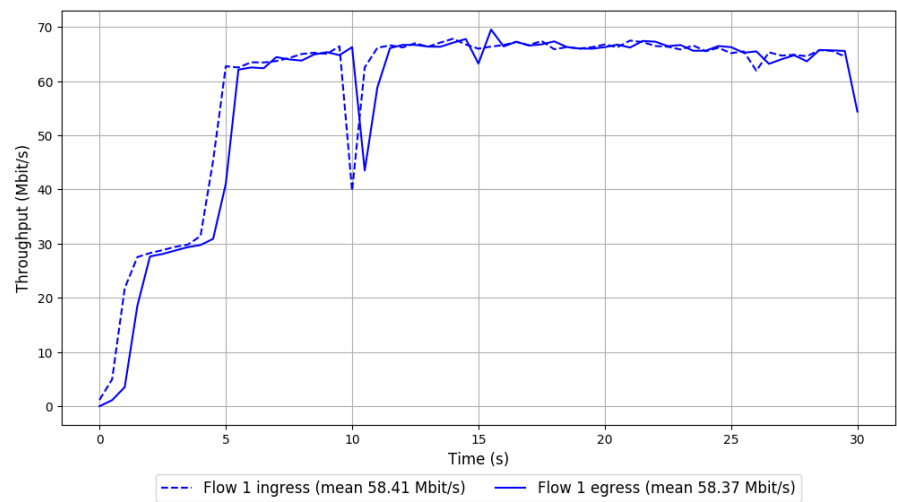


Run 2: Statistics of Copa

Start at: 2018-05-25 01:42:39
End at: 2018-05-25 01:43:09
Local clock offset: -2.133 ms
Remote clock offset: 4.272 ms

Below is generated by plot.py at 2018-05-25 04:32:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 58.37 Mbit/s
95th percentile per-packet one-way delay: 92.368 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 58.37 Mbit/s
95th percentile per-packet one-way delay: 92.368 ms
Loss rate: 0.60%

Run 2: Report of Copa — Data Link

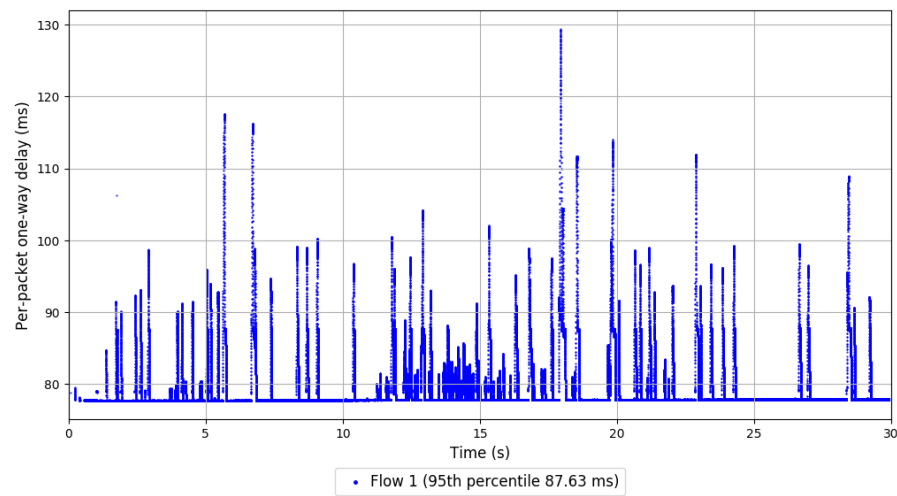
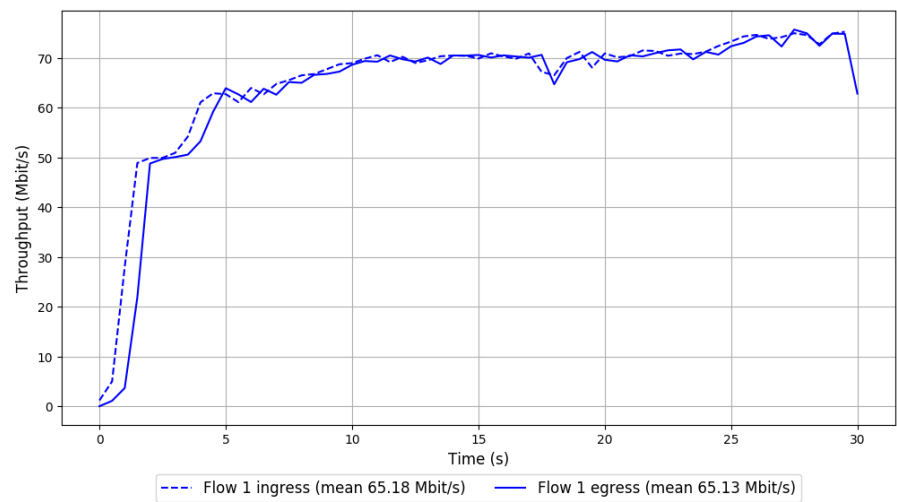


Run 3: Statistics of Copa

Start at: 2018-05-25 02:01:00
End at: 2018-05-25 02:01:30
Local clock offset: -3.646 ms
Remote clock offset: 8.207 ms

Below is generated by plot.py at 2018-05-25 04:32:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 65.13 Mbit/s
95th percentile per-packet one-way delay: 87.633 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 65.13 Mbit/s
95th percentile per-packet one-way delay: 87.633 ms
Loss rate: 0.62%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-05-25 02:19:25

End at: 2018-05-25 02:19:55

Local clock offset: -7.067 ms

Remote clock offset: 4.264 ms

Below is generated by plot.py at 2018-05-25 04:32:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.58 Mbit/s

95th percentile per-packet one-way delay: 82.648 ms

Loss rate: 0.57%

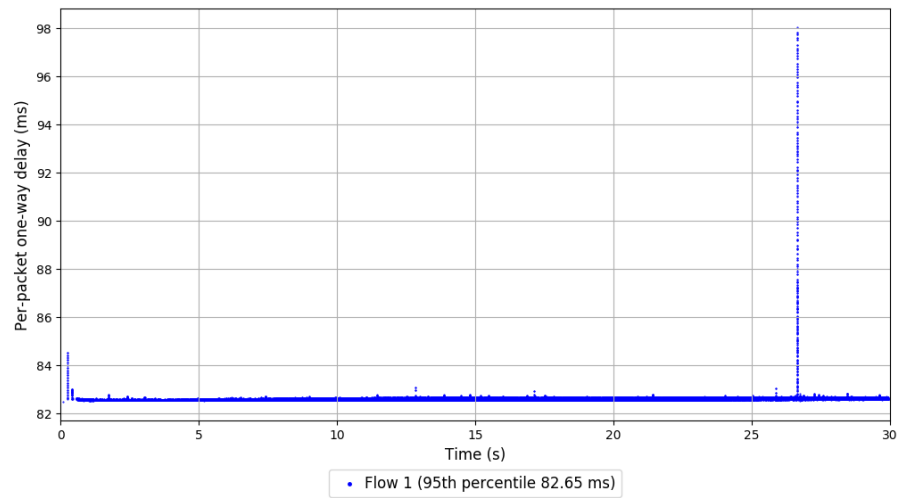
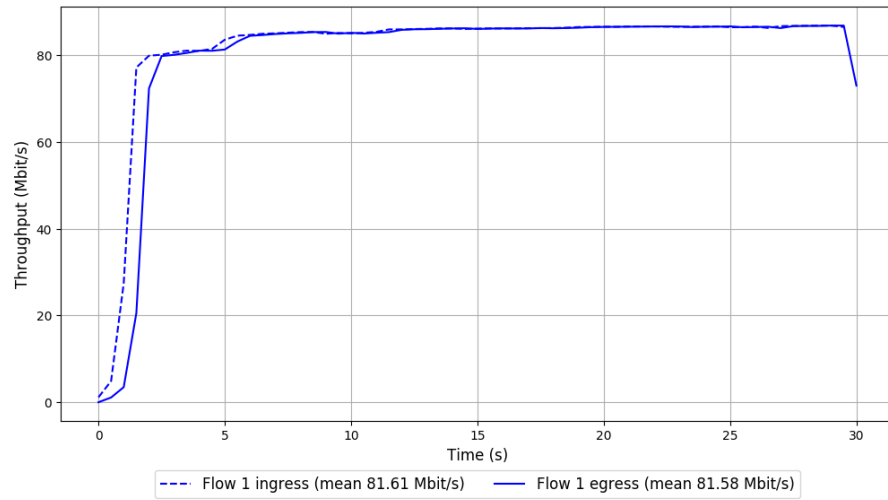
-- Flow 1:

Average throughput: 81.58 Mbit/s

95th percentile per-packet one-way delay: 82.648 ms

Loss rate: 0.57%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-05-25 02:37:54

End at: 2018-05-25 02:38:24

Local clock offset: -2.623 ms

Remote clock offset: 3.672 ms

Below is generated by plot.py at 2018-05-25 04:32:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.78 Mbit/s

95th percentile per-packet one-way delay: 94.736 ms

Loss rate: 0.64%

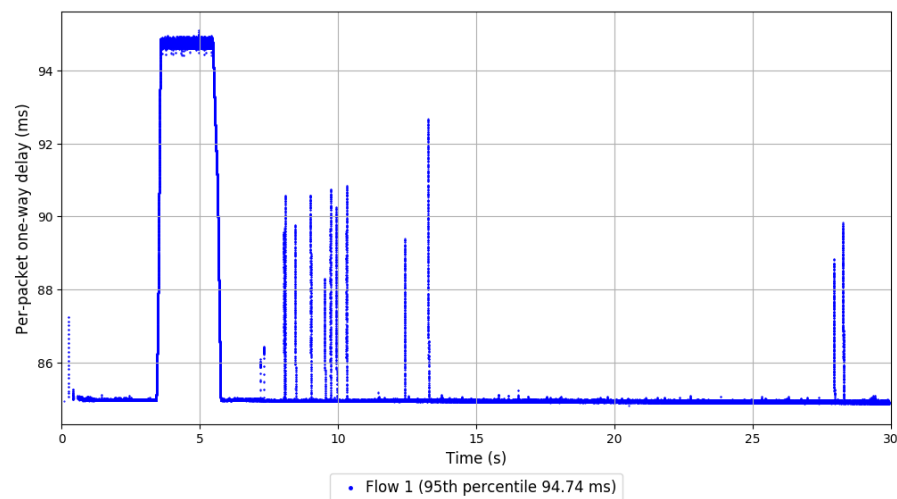
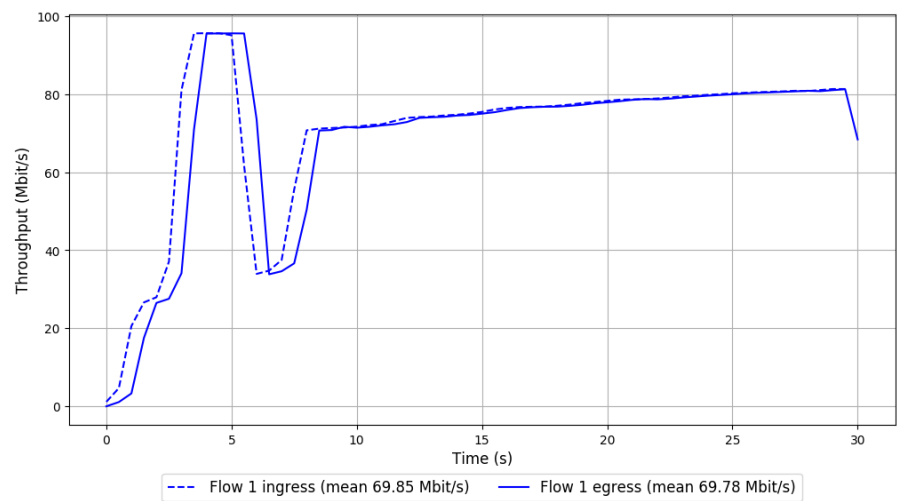
-- Flow 1:

Average throughput: 69.78 Mbit/s

95th percentile per-packet one-way delay: 94.736 ms

Loss rate: 0.64%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-05-25 02:56:20

End at: 2018-05-25 02:56:50

Local clock offset: -0.957 ms

Remote clock offset: 3.523 ms

Below is generated by plot.py at 2018-05-25 04:32:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.67 Mbit/s

95th percentile per-packet one-way delay: 94.835 ms

Loss rate: 1.12%

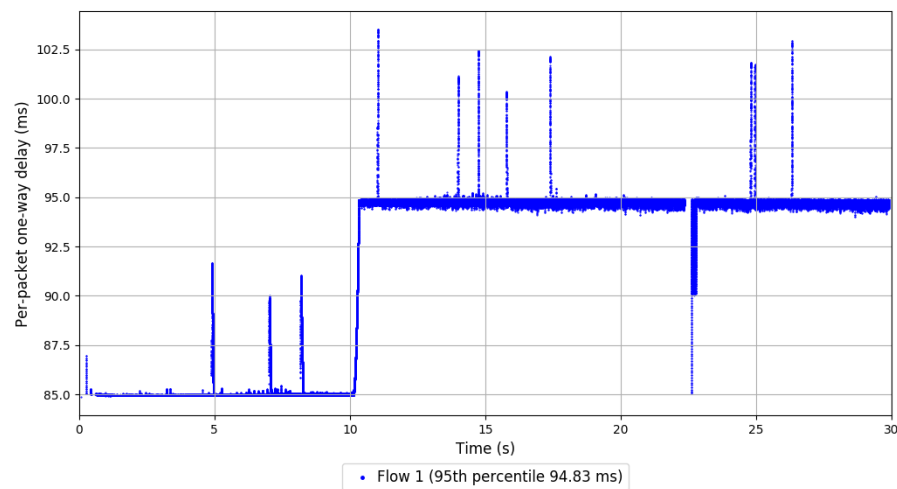
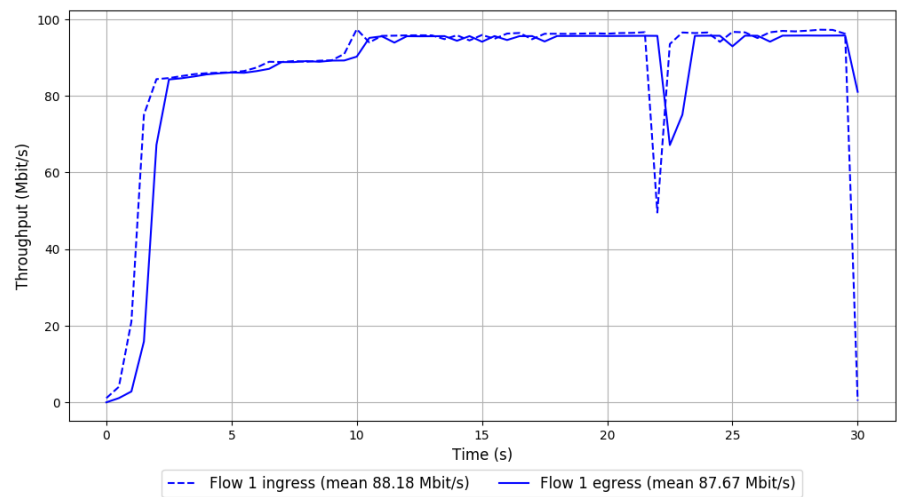
-- Flow 1:

Average throughput: 87.67 Mbit/s

95th percentile per-packet one-way delay: 94.835 ms

Loss rate: 1.12%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-05-25 03:14:48

End at: 2018-05-25 03:15:18

Local clock offset: -1.488 ms

Remote clock offset: 2.838 ms

Below is generated by plot.py at 2018-05-25 04:33:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.80 Mbit/s

95th percentile per-packet one-way delay: 93.658 ms

Loss rate: 0.65%

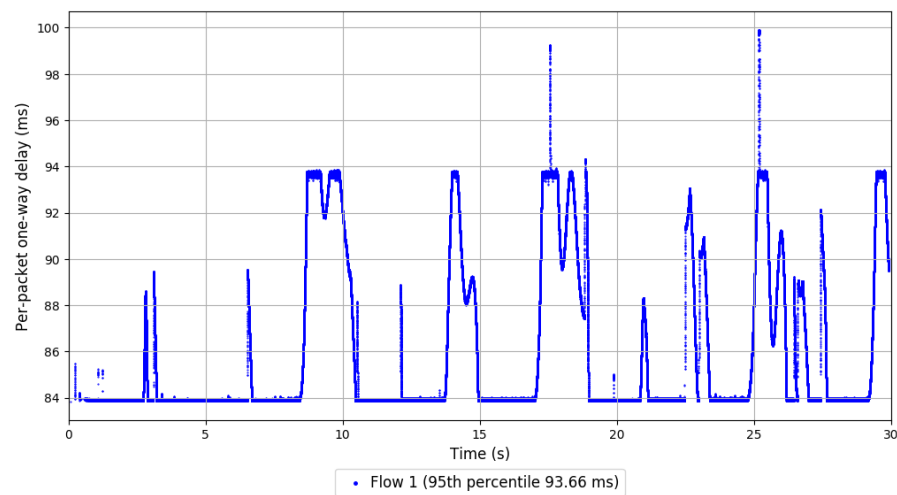
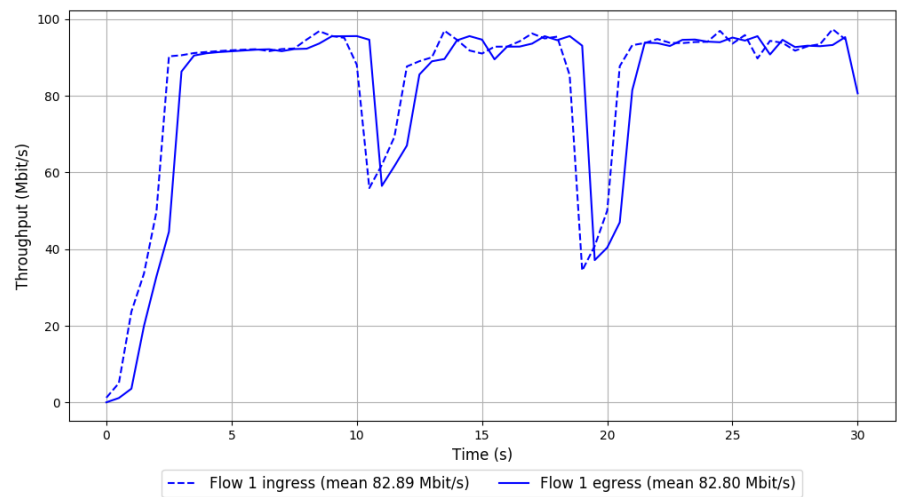
-- Flow 1:

Average throughput: 82.80 Mbit/s

95th percentile per-packet one-way delay: 93.658 ms

Loss rate: 0.65%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-05-25 03:33:16

End at: 2018-05-25 03:33:47

Local clock offset: -1.722 ms

Remote clock offset: 3.831 ms

Below is generated by plot.py at 2018-05-25 04:33:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.66 Mbit/s

95th percentile per-packet one-way delay: 95.001 ms

Loss rate: 1.48%

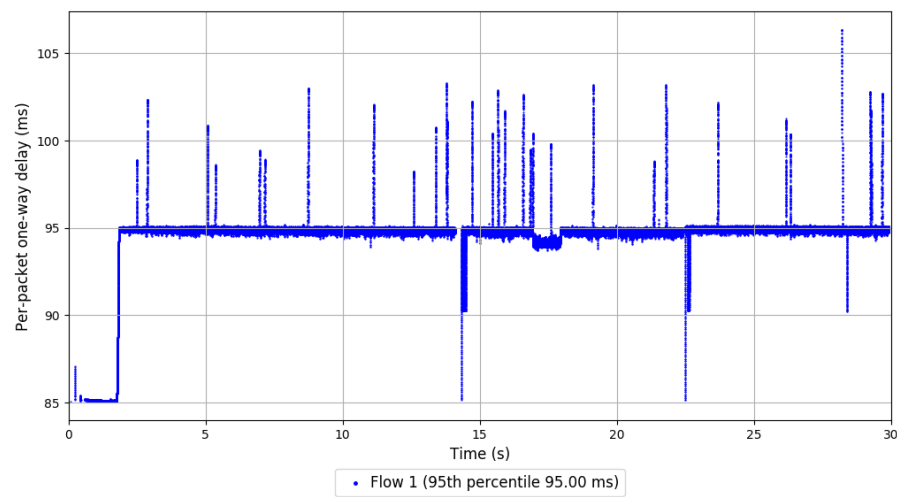
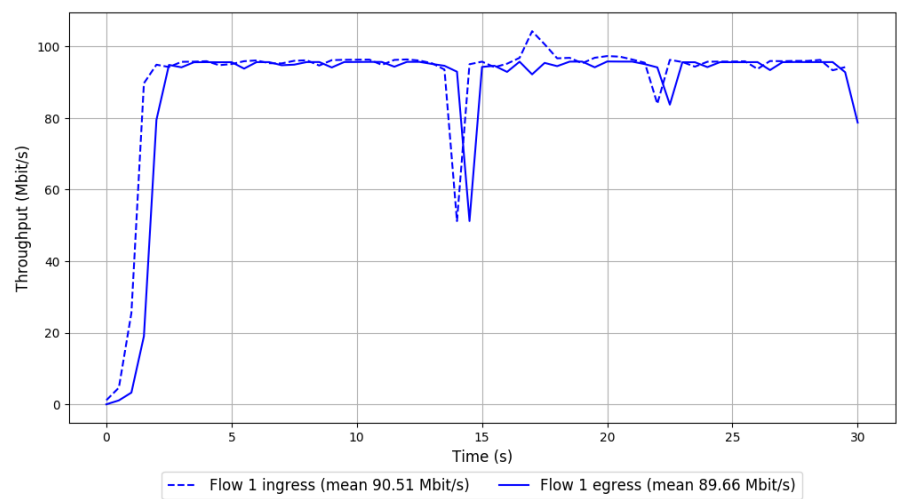
-- Flow 1:

Average throughput: 89.66 Mbit/s

95th percentile per-packet one-way delay: 95.001 ms

Loss rate: 1.48%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-05-25 03:51:45

End at: 2018-05-25 03:52:15

Local clock offset: -1.825 ms

Remote clock offset: 4.082 ms

Below is generated by plot.py at 2018-05-25 04:33:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.34 Mbit/s

95th percentile per-packet one-way delay: 94.814 ms

Loss rate: 1.04%

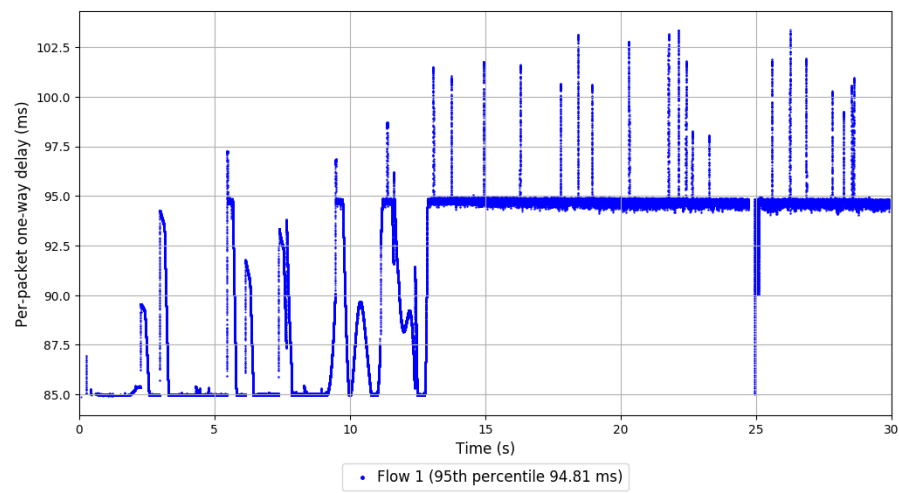
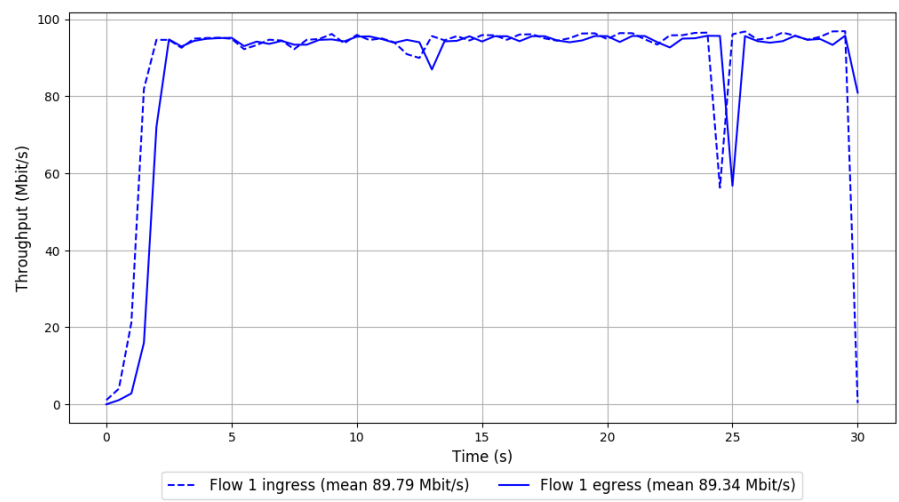
-- Flow 1:

Average throughput: 89.34 Mbit/s

95th percentile per-packet one-way delay: 94.814 ms

Loss rate: 1.04%

Run 9: Report of Copa — Data Link

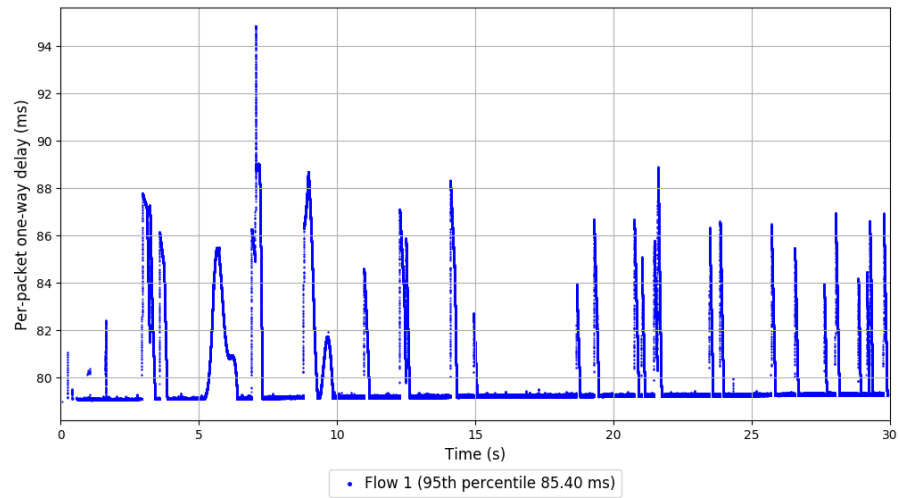
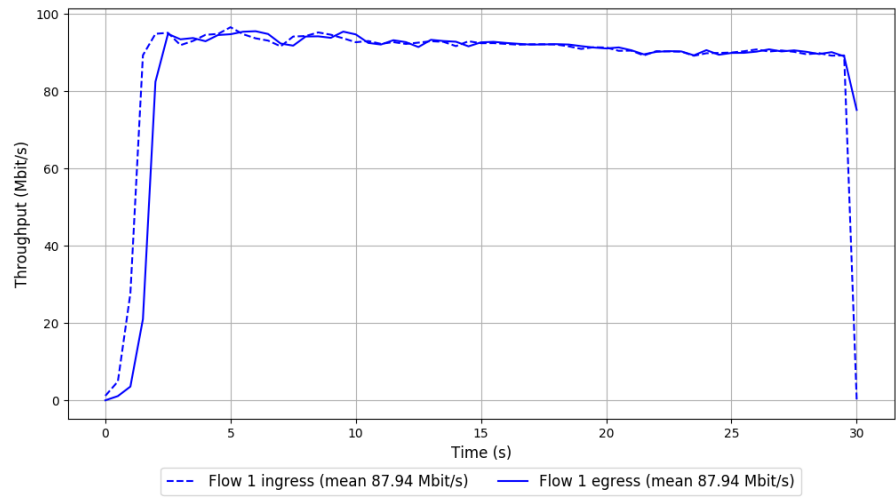


Run 10: Statistics of Copa

Start at: 2018-05-25 04:10:19
End at: 2018-05-25 04:10:49
Local clock offset: -3.078 ms
Remote clock offset: 11.569 ms

Below is generated by plot.py at 2018-05-25 04:34:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.94 Mbit/s
95th percentile per-packet one-way delay: 85.404 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 87.94 Mbit/s
95th percentile per-packet one-way delay: 85.404 ms
Loss rate: 0.54%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-05-25 01:26:36

End at: 2018-05-25 01:27:06

Local clock offset: -7.075 ms

Remote clock offset: 8.6 ms

Below is generated by plot.py at 2018-05-25 04:34:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.31 Mbit/s

95th percentile per-packet one-way delay: 88.034 ms

Loss rate: 0.70%

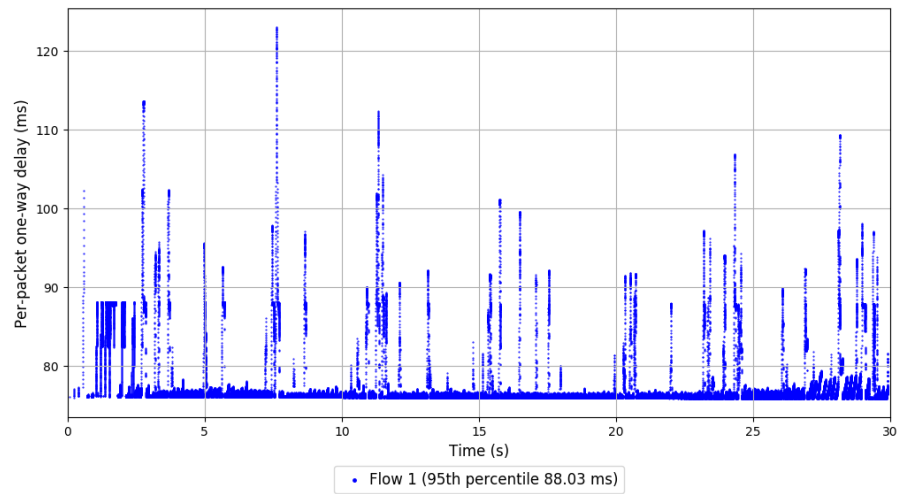
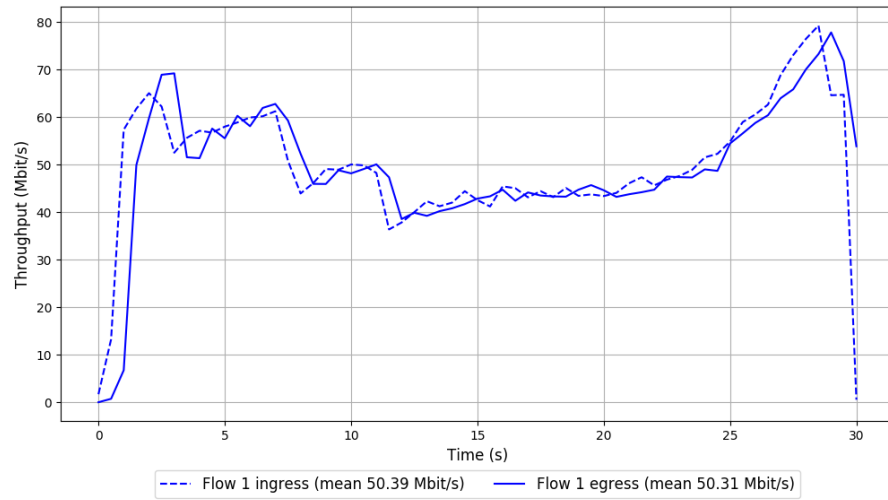
-- Flow 1:

Average throughput: 50.31 Mbit/s

95th percentile per-packet one-way delay: 88.034 ms

Loss rate: 0.70%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-05-25 01:44:59

End at: 2018-05-25 01:45:29

Local clock offset: -1.833 ms

Remote clock offset: 7.286 ms

Below is generated by plot.py at 2018-05-25 04:34:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.16 Mbit/s

95th percentile per-packet one-way delay: 91.937 ms

Loss rate: 0.61%

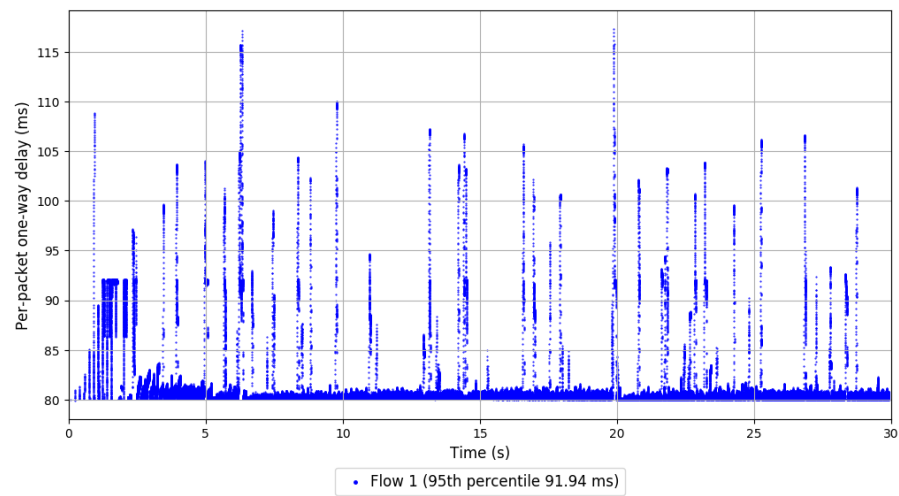
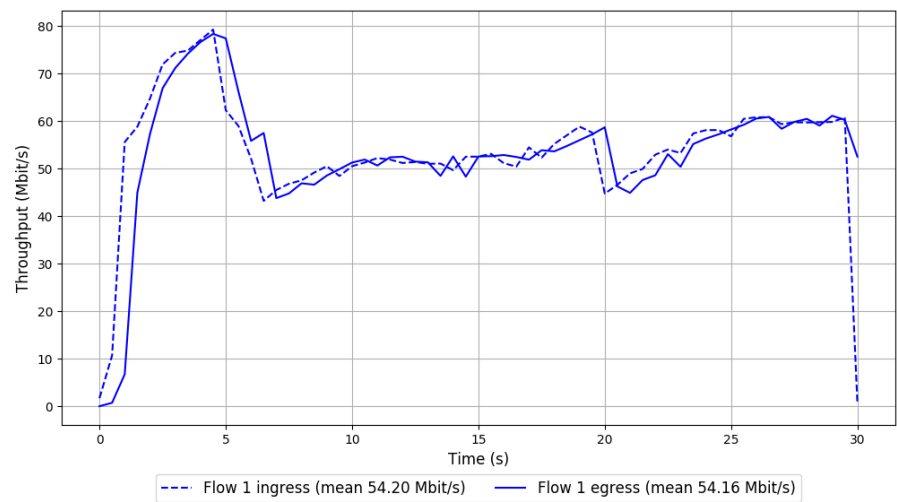
-- Flow 1:

Average throughput: 54.16 Mbit/s

95th percentile per-packet one-way delay: 91.937 ms

Loss rate: 0.61%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-05-25 02:03:21

End at: 2018-05-25 02:03:51

Local clock offset: -4.542 ms

Remote clock offset: 4.415 ms

Below is generated by plot.py at 2018-05-25 04:34:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.55 Mbit/s

95th percentile per-packet one-way delay: 97.266 ms

Loss rate: 0.47%

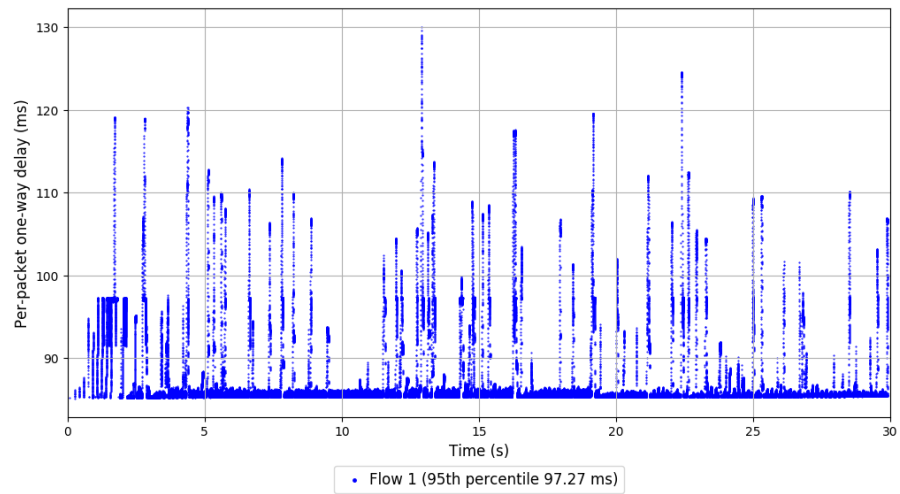
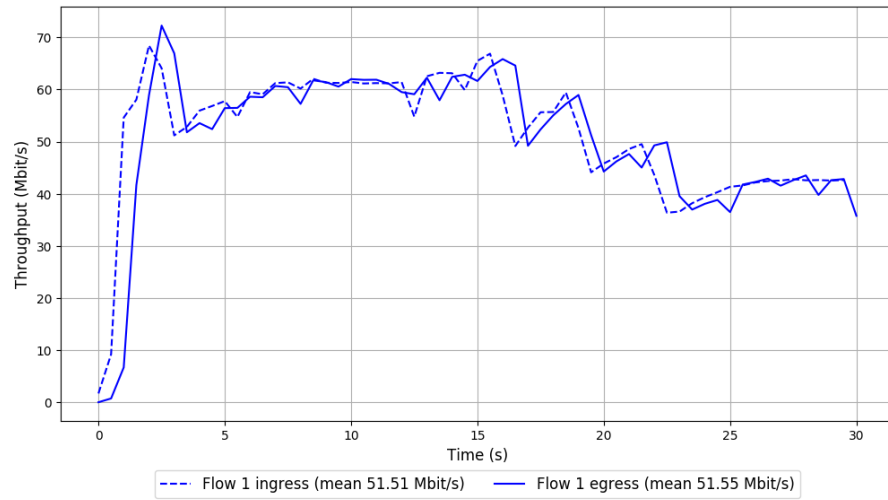
-- Flow 1:

Average throughput: 51.55 Mbit/s

95th percentile per-packet one-way delay: 97.266 ms

Loss rate: 0.47%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-05-25 02:21:47

End at: 2018-05-25 02:22:17

Local clock offset: -7.165 ms

Remote clock offset: 3.369 ms

Below is generated by plot.py at 2018-05-25 04:34:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.81 Mbit/s

95th percentile per-packet one-way delay: 88.569 ms

Loss rate: 0.56%

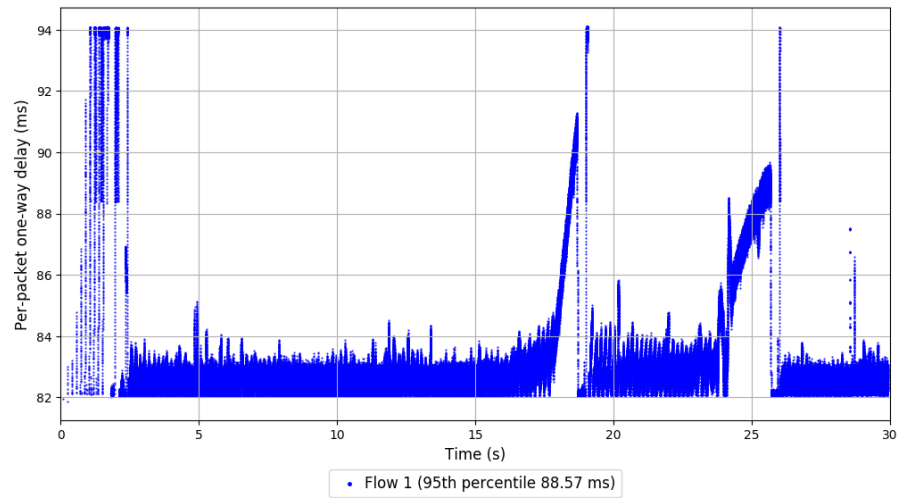
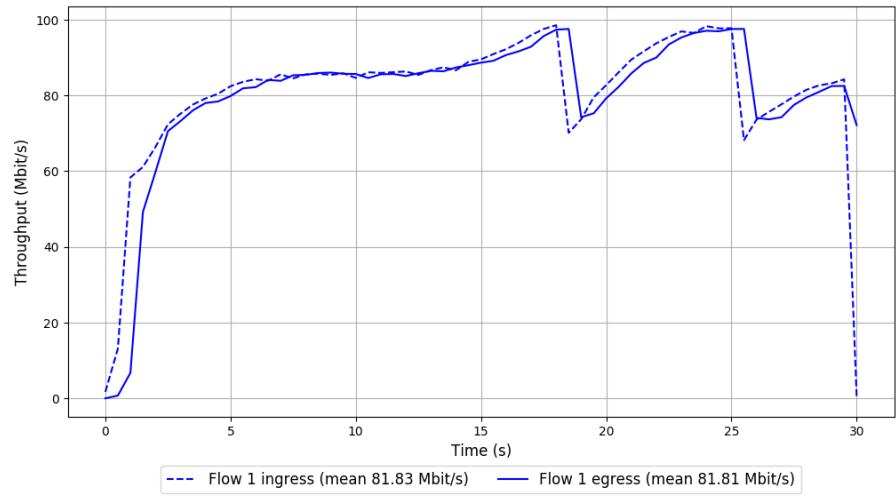
-- Flow 1:

Average throughput: 81.81 Mbit/s

95th percentile per-packet one-way delay: 88.569 ms

Loss rate: 0.56%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-05-25 02:40:15

End at: 2018-05-25 02:40:45

Local clock offset: -2.269 ms

Remote clock offset: 7.448 ms

Below is generated by plot.py at 2018-05-25 04:34:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.56 Mbit/s

95th percentile per-packet one-way delay: 84.720 ms

Loss rate: 0.56%

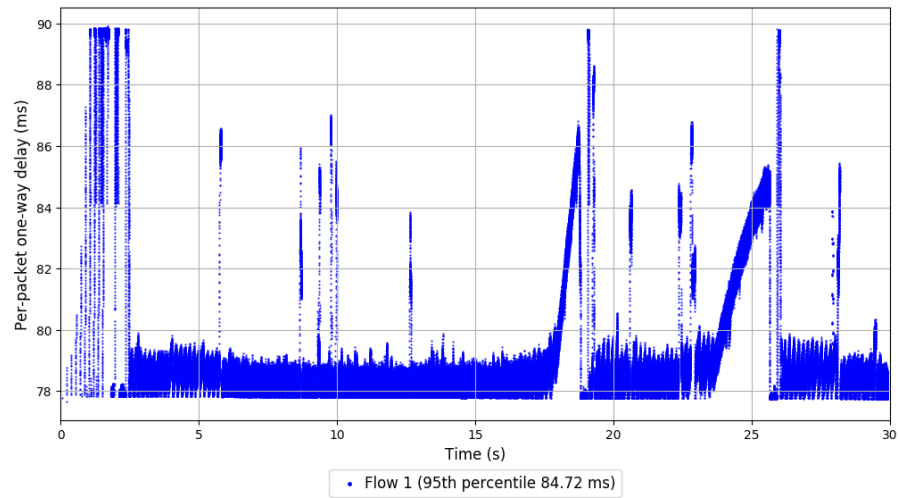
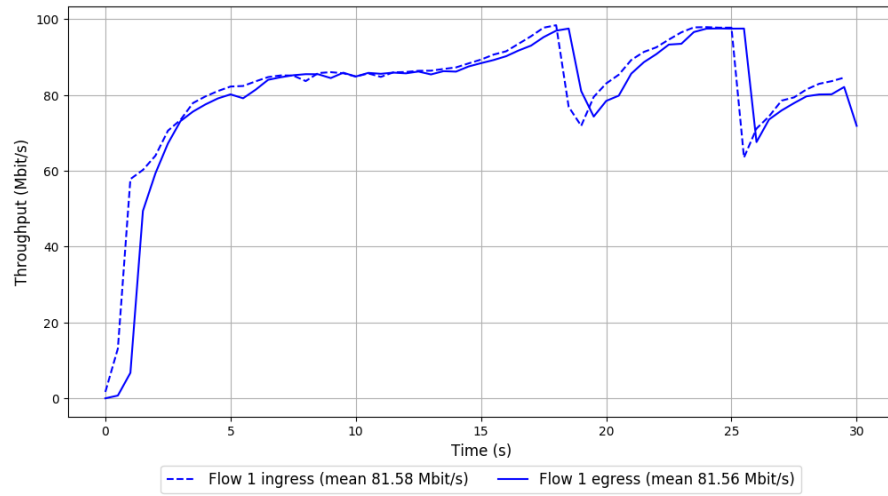
-- Flow 1:

Average throughput: 81.56 Mbit/s

95th percentile per-packet one-way delay: 84.720 ms

Loss rate: 0.56%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-05-25 02:58:43

End at: 2018-05-25 02:59:13

Local clock offset: -1.118 ms

Remote clock offset: 2.855 ms

Below is generated by plot.py at 2018-05-25 04:34:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.48 Mbit/s

95th percentile per-packet one-way delay: 89.104 ms

Loss rate: 0.65%

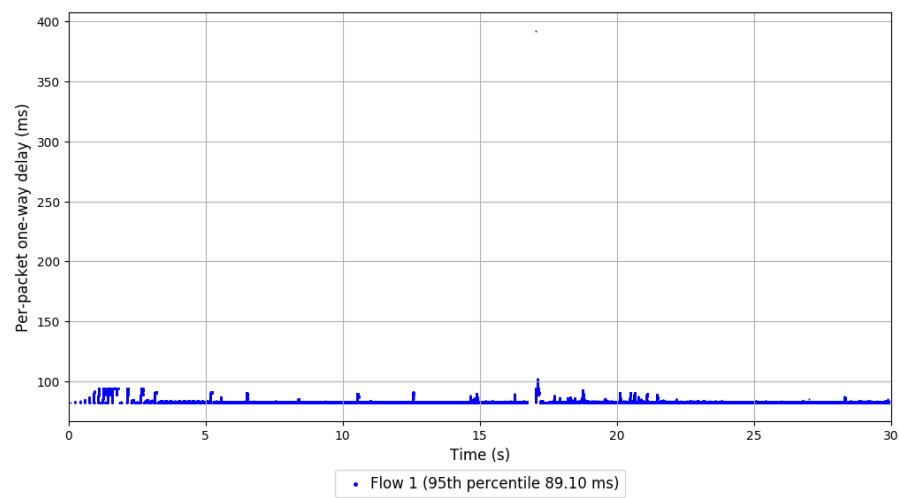
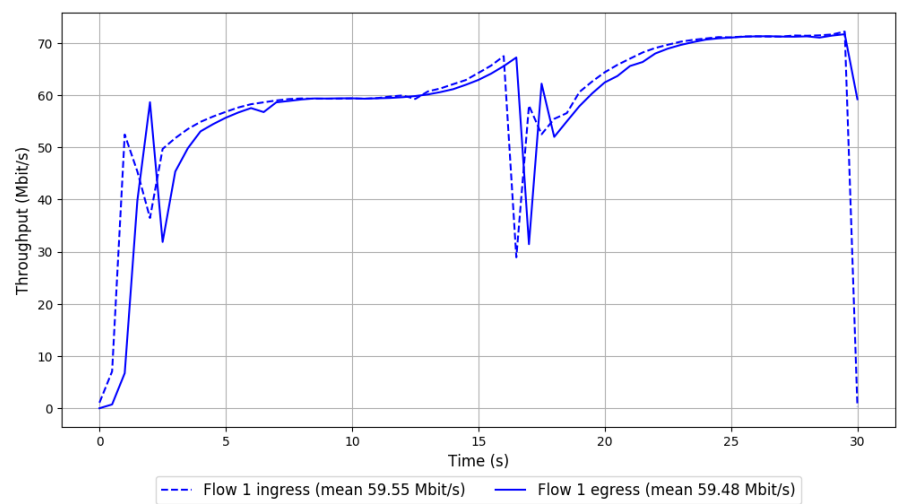
-- Flow 1:

Average throughput: 59.48 Mbit/s

95th percentile per-packet one-way delay: 89.104 ms

Loss rate: 0.65%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-05-25 03:17:10

End at: 2018-05-25 03:17:40

Local clock offset: -1.476 ms

Remote clock offset: 3.61 ms

Below is generated by plot.py at 2018-05-25 04:34:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.66 Mbit/s

95th percentile per-packet one-way delay: 90.817 ms

Loss rate: 0.49%

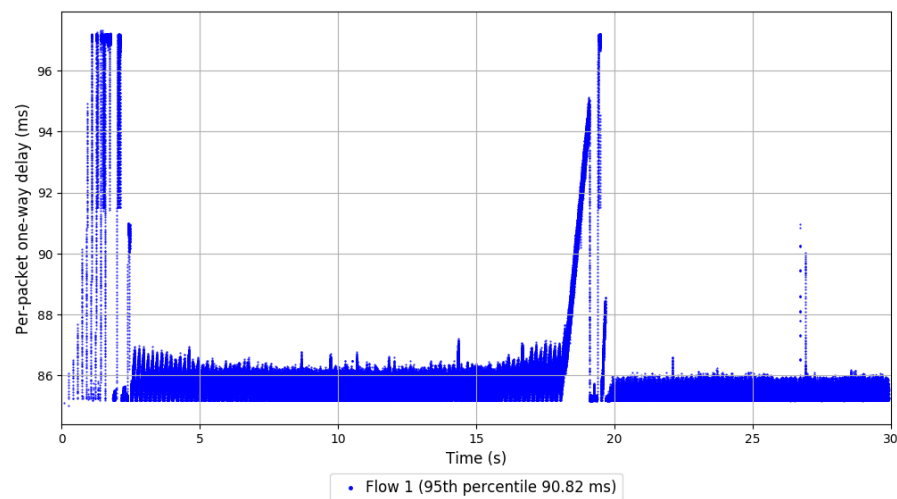
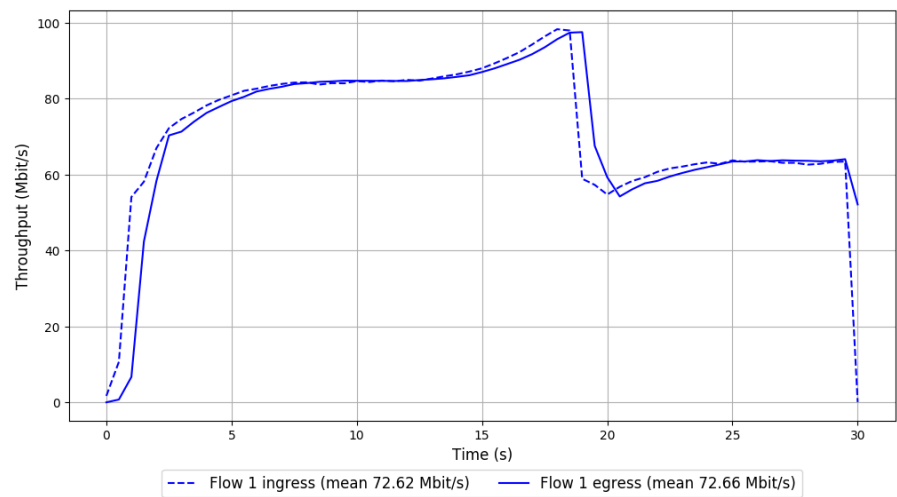
-- Flow 1:

Average throughput: 72.66 Mbit/s

95th percentile per-packet one-way delay: 90.817 ms

Loss rate: 0.49%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-05-25 03:35:39

End at: 2018-05-25 03:36:09

Local clock offset: -1.827 ms

Remote clock offset: 3.104 ms

Below is generated by plot.py at 2018-05-25 04:34:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.70 Mbit/s

95th percentile per-packet one-way delay: 92.722 ms

Loss rate: 0.35%

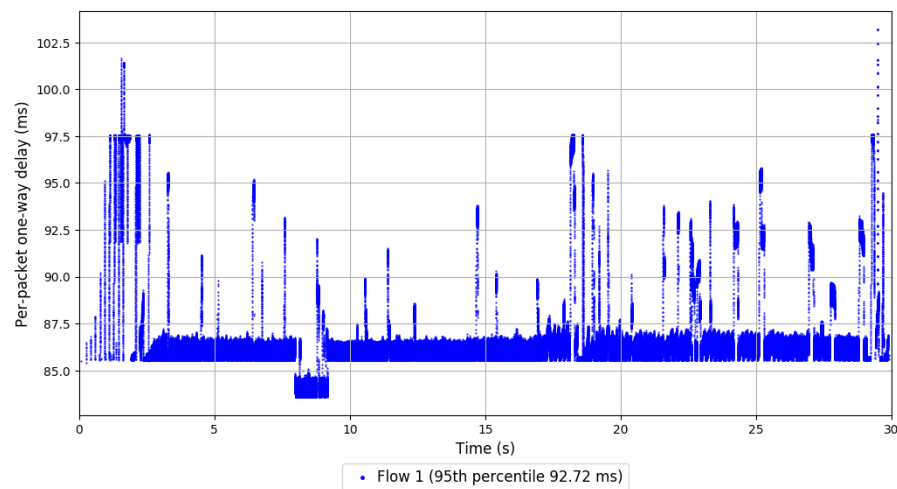
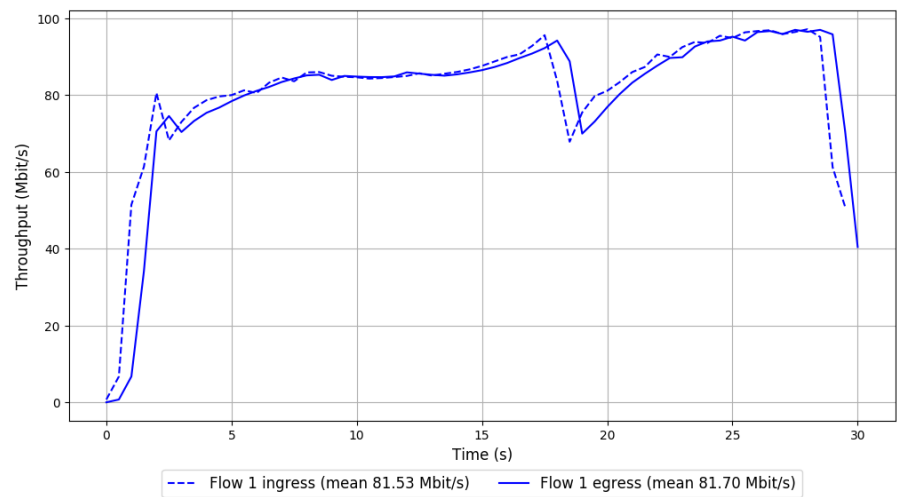
-- Flow 1:

Average throughput: 81.70 Mbit/s

95th percentile per-packet one-way delay: 92.722 ms

Loss rate: 0.35%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-05-25 03:54:08

End at: 2018-05-25 03:54:38

Local clock offset: -1.815 ms

Remote clock offset: 7.83 ms

Below is generated by plot.py at 2018-05-25 04:34:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.03 Mbit/s

95th percentile per-packet one-way delay: 83.535 ms

Loss rate: 0.54%

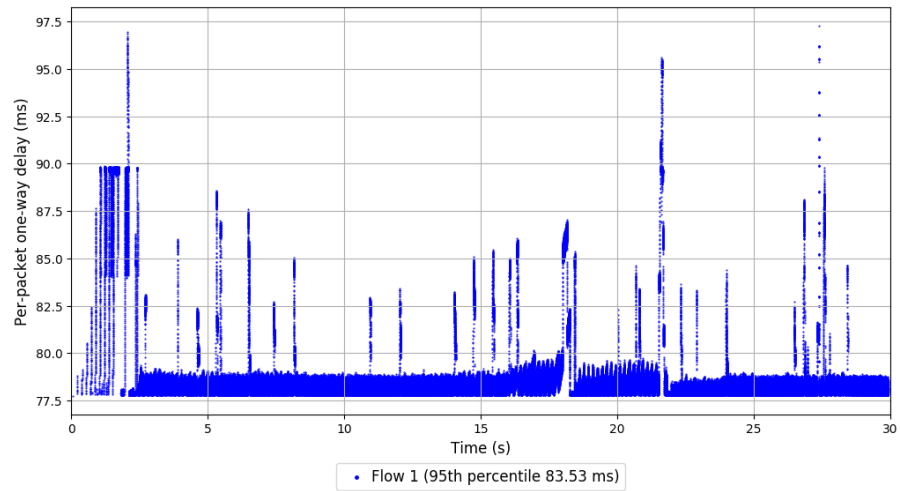
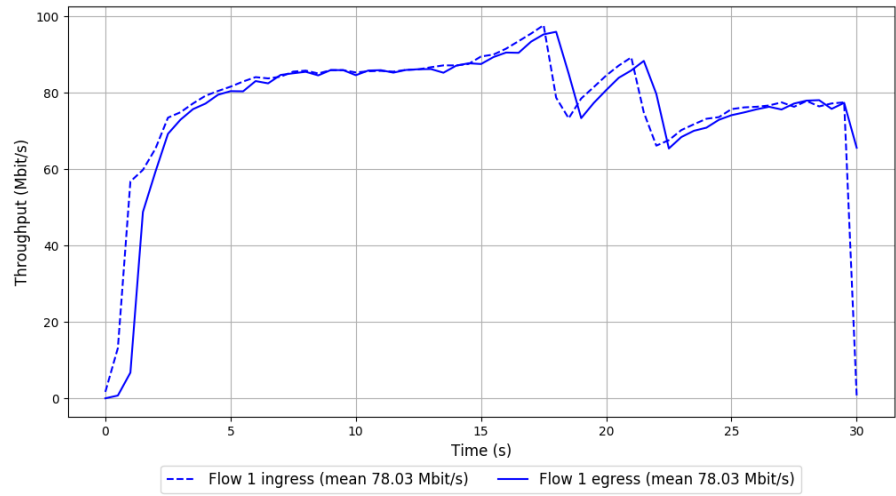
-- Flow 1:

Average throughput: 78.03 Mbit/s

95th percentile per-packet one-way delay: 83.535 ms

Loss rate: 0.54%

Run 9: Report of TCP Cubic — Data Link

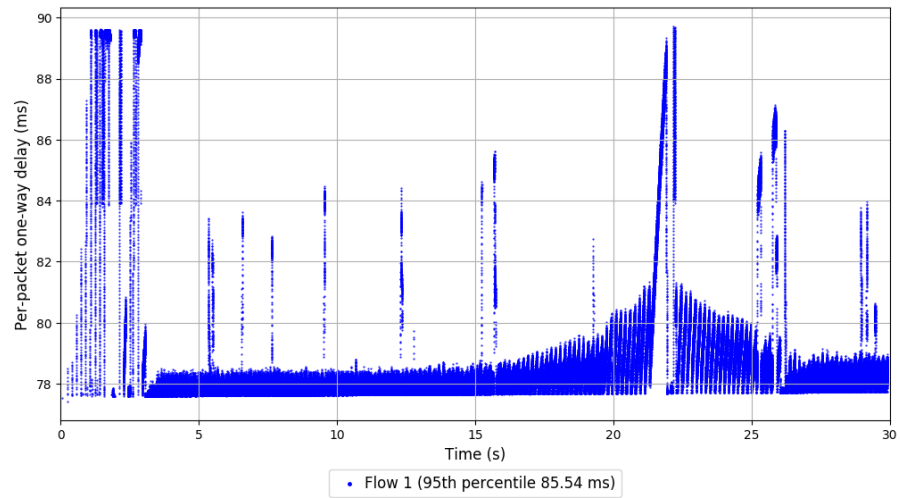
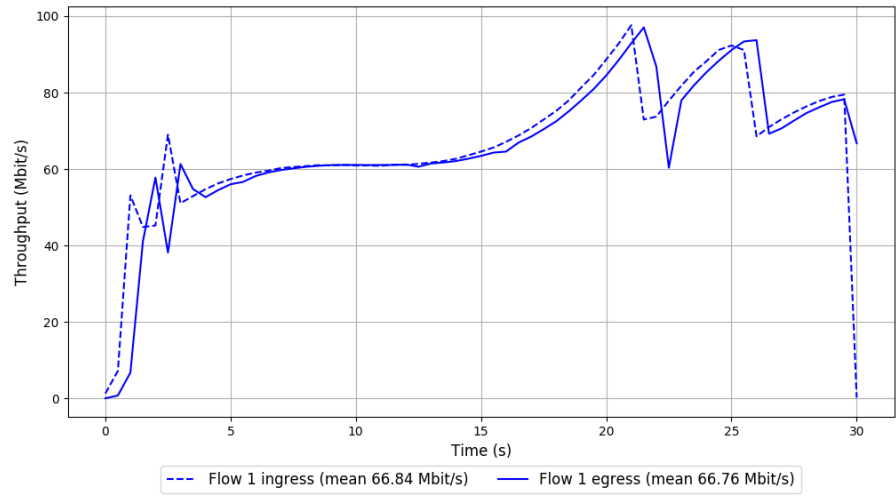


Run 10: Statistics of TCP Cubic

Start at: 2018-05-25 04:12:41
End at: 2018-05-25 04:13:11
Local clock offset: -3.038 ms
Remote clock offset: 12.467 ms

Below is generated by plot.py at 2018-05-25 04:34:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 66.76 Mbit/s
95th percentile per-packet one-way delay: 85.540 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 66.76 Mbit/s
95th percentile per-packet one-way delay: 85.540 ms
Loss rate: 0.65%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-05-25 01:38:06

End at: 2018-05-25 01:38:36

Local clock offset: -2.729 ms

Remote clock offset: 3.366 ms

Below is generated by plot.py at 2018-05-25 04:35:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.36 Mbit/s

95th percentile per-packet one-way delay: 94.055 ms

Loss rate: 0.62%

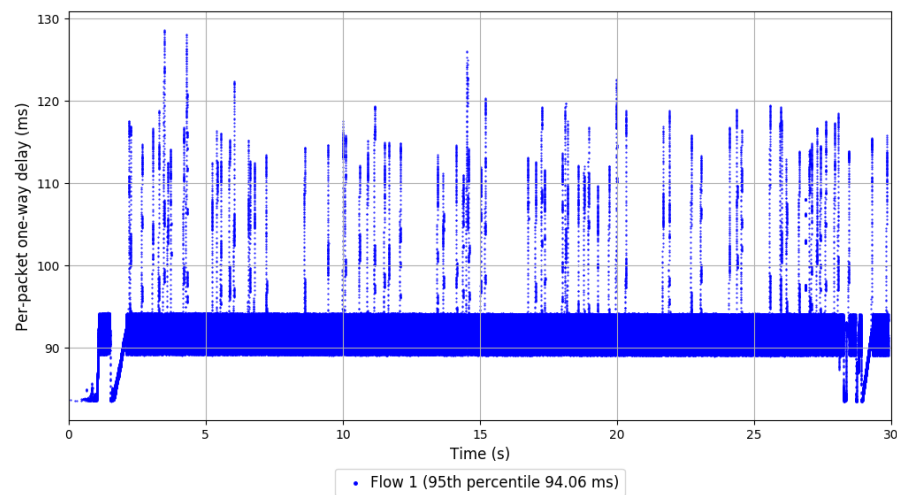
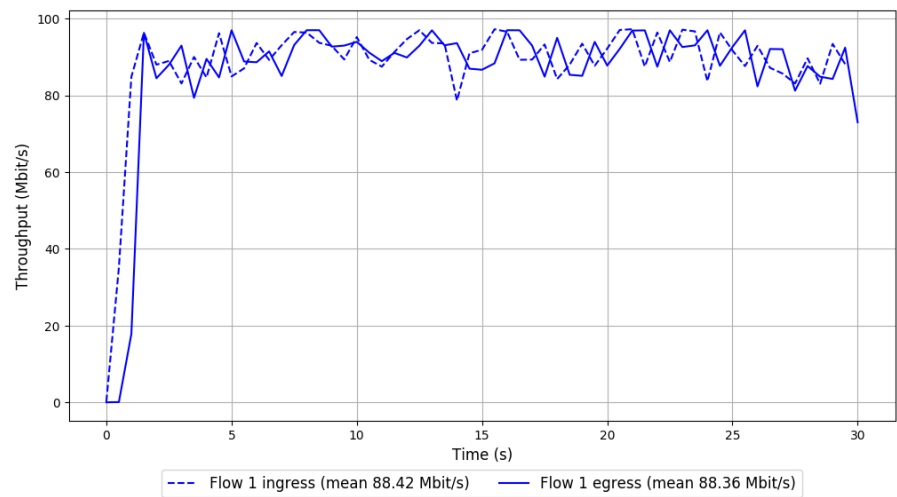
-- Flow 1:

Average throughput: 88.36 Mbit/s

95th percentile per-packet one-way delay: 94.055 ms

Loss rate: 0.62%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-05-25 01:56:27

End at: 2018-05-25 01:56:57

Local clock offset: -1.367 ms

Remote clock offset: 4.385 ms

Below is generated by plot.py at 2018-05-25 04:35:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.04 Mbit/s

95th percentile per-packet one-way delay: 94.114 ms

Loss rate: 0.62%

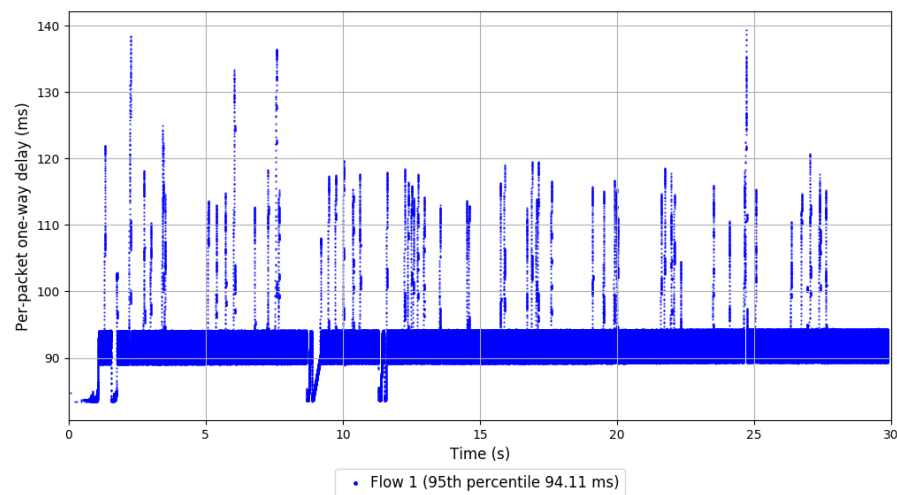
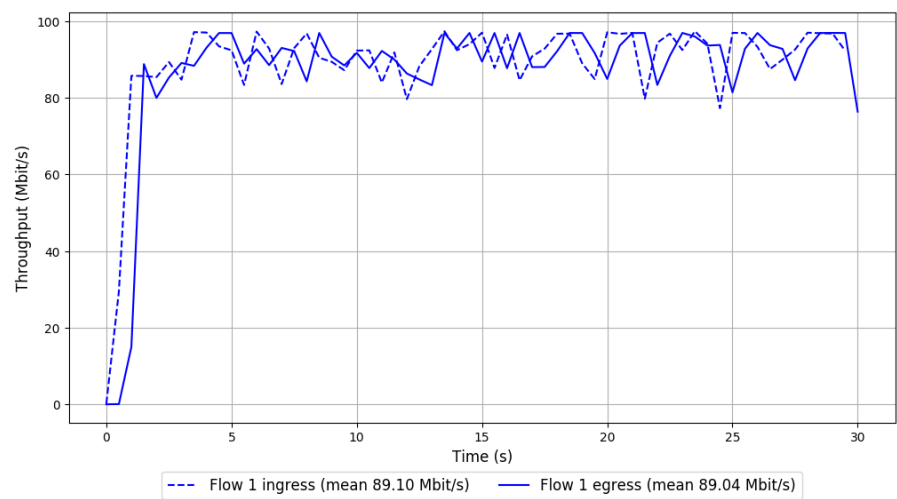
-- Flow 1:

Average throughput: 89.04 Mbit/s

95th percentile per-packet one-way delay: 94.114 ms

Loss rate: 0.62%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-05-25 02:14:51

End at: 2018-05-25 02:15:21

Local clock offset: -6.532 ms

Remote clock offset: 4.165 ms

Below is generated by plot.py at 2018-05-25 04:35:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.18 Mbit/s

95th percentile per-packet one-way delay: 93.390 ms

Loss rate: 0.59%

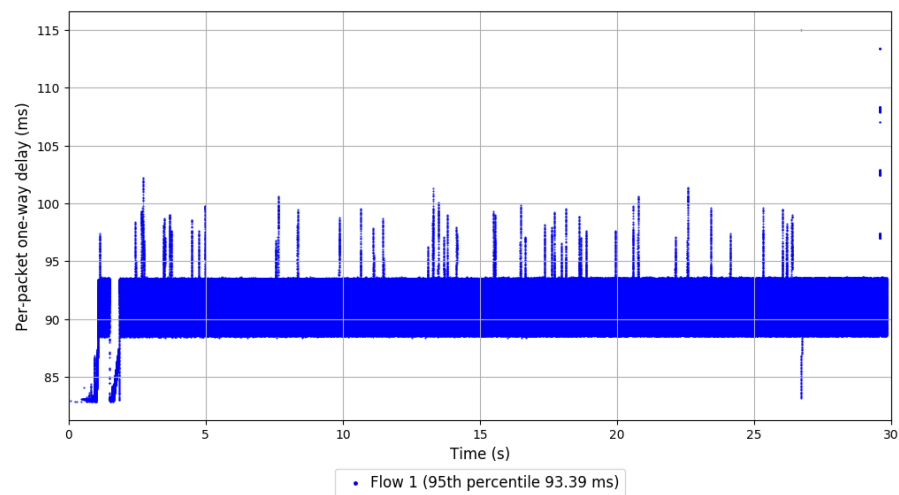
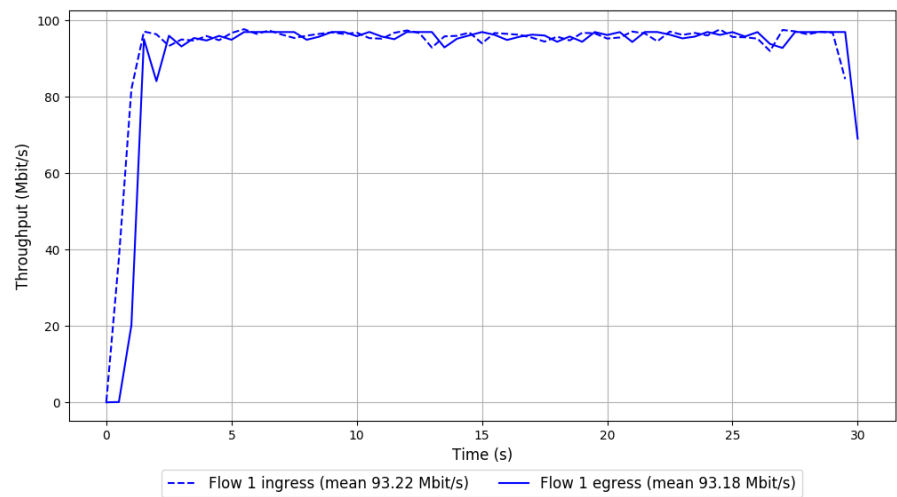
-- Flow 1:

Average throughput: 93.18 Mbit/s

95th percentile per-packet one-way delay: 93.390 ms

Loss rate: 0.59%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-05-25 02:33:19

End at: 2018-05-25 02:33:49

Local clock offset: -3.751 ms

Remote clock offset: 8.546 ms

Below is generated by plot.py at 2018-05-25 04:35:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.07 Mbit/s

95th percentile per-packet one-way delay: 89.004 ms

Loss rate: 0.58%

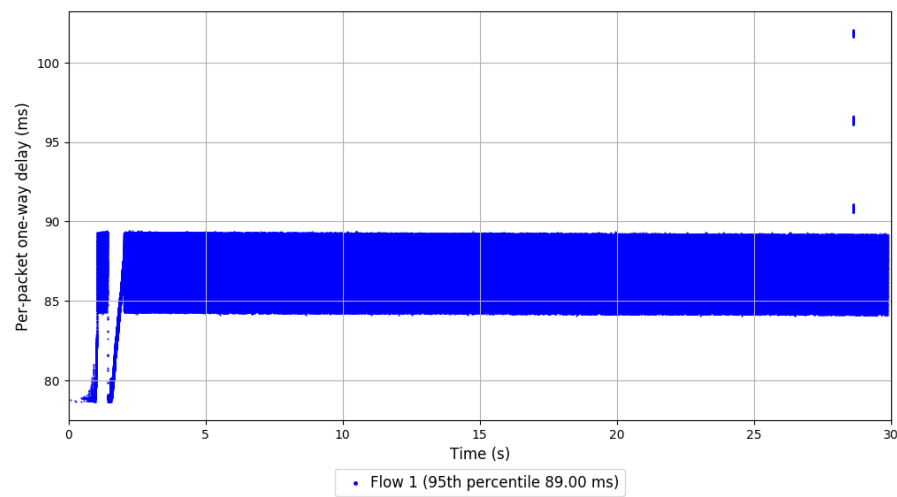
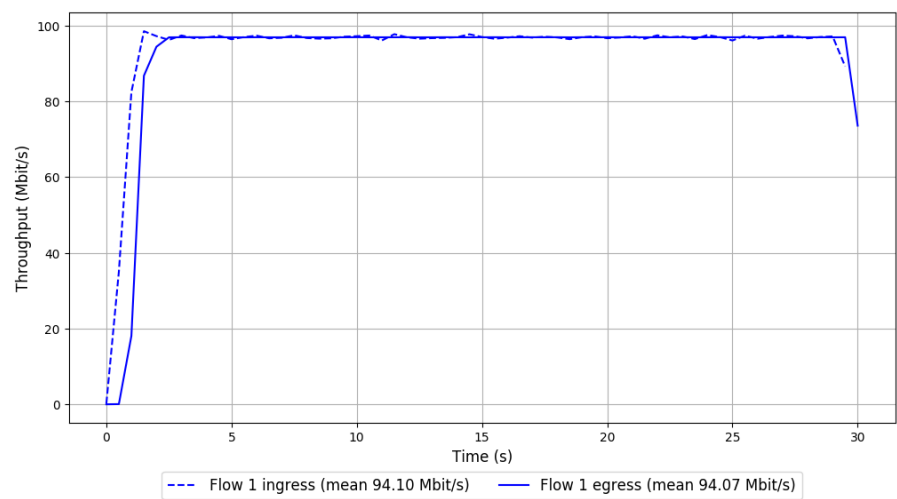
-- Flow 1:

Average throughput: 94.07 Mbit/s

95th percentile per-packet one-way delay: 89.004 ms

Loss rate: 0.58%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-05-25 02:51:46

End at: 2018-05-25 02:52:16

Local clock offset: -1.119 ms

Remote clock offset: 7.204 ms

Below is generated by plot.py at 2018-05-25 04:35:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.87 Mbit/s

95th percentile per-packet one-way delay: 87.906 ms

Loss rate: 0.59%

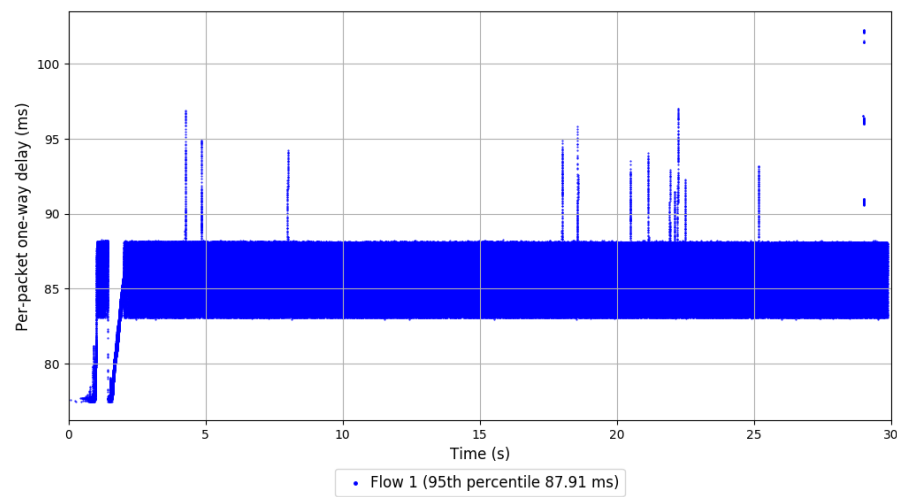
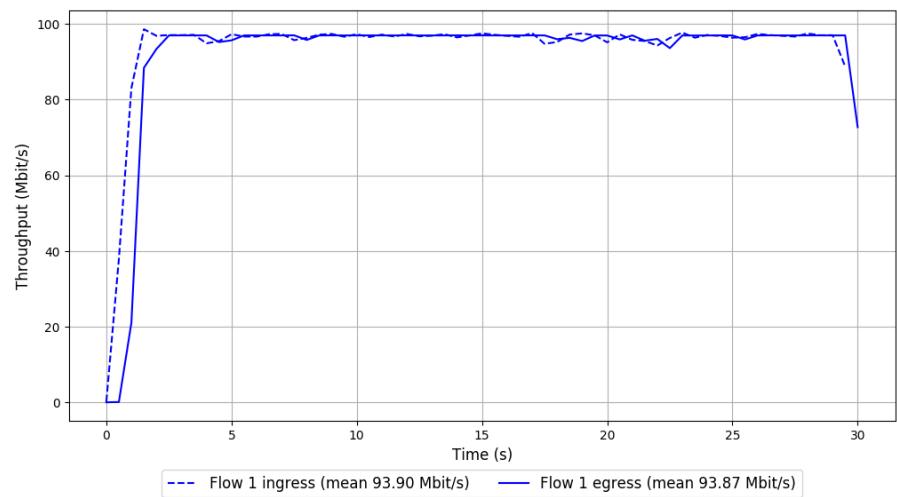
-- Flow 1:

Average throughput: 93.87 Mbit/s

95th percentile per-packet one-way delay: 87.906 ms

Loss rate: 0.59%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-05-25 03:10:14

End at: 2018-05-25 03:10:44

Local clock offset: -1.493 ms

Remote clock offset: 8.32 ms

Below is generated by plot.py at 2018-05-25 04:35:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.71 Mbit/s

95th percentile per-packet one-way delay: 90.762 ms

Loss rate: 0.60%

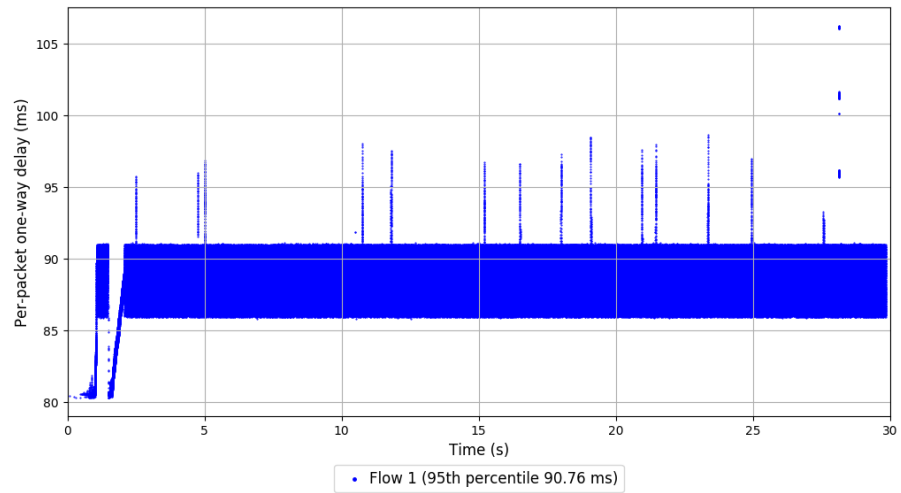
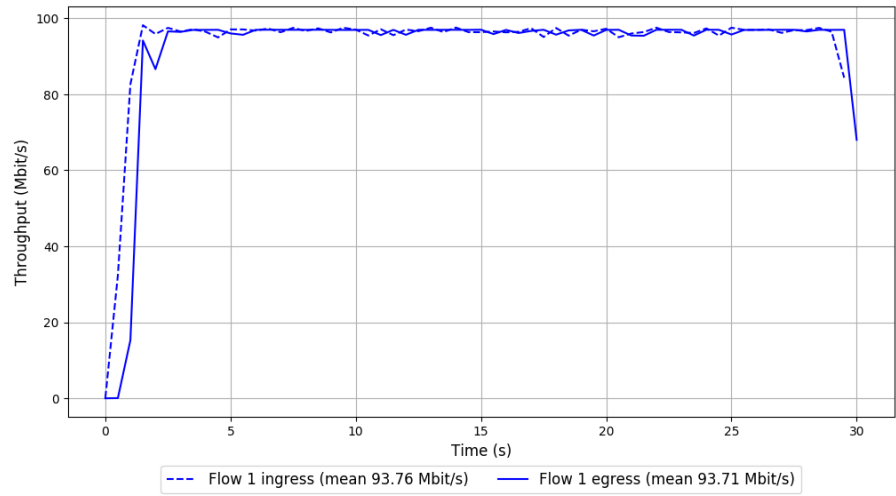
-- Flow 1:

Average throughput: 93.71 Mbit/s

95th percentile per-packet one-way delay: 90.762 ms

Loss rate: 0.60%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-05-25 03:28:42

End at: 2018-05-25 03:29:12

Local clock offset: -1.569 ms

Remote clock offset: 2.852 ms

Below is generated by plot.py at 2018-05-25 04:35:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.40 Mbit/s

95th percentile per-packet one-way delay: 94.643 ms

Loss rate: 0.59%

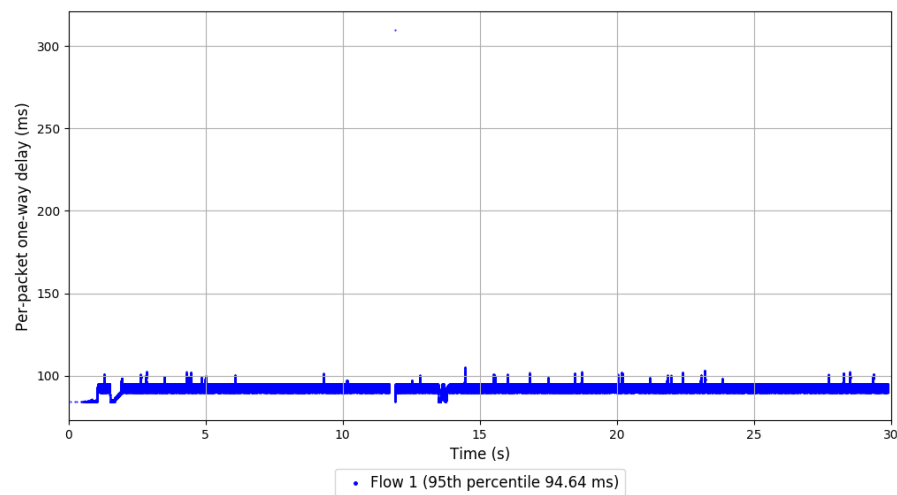
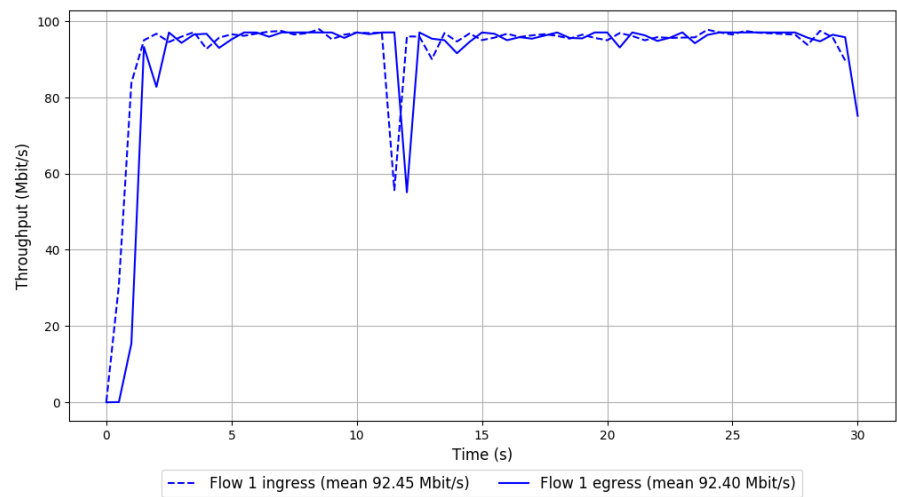
-- Flow 1:

Average throughput: 92.40 Mbit/s

95th percentile per-packet one-way delay: 94.643 ms

Loss rate: 0.59%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-05-25 03:47:11

End at: 2018-05-25 03:47:41

Local clock offset: -1.962 ms

Remote clock offset: 8.703 ms

Below is generated by plot.py at 2018-05-25 04:35:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.52 Mbit/s

95th percentile per-packet one-way delay: 88.406 ms

Loss rate: 0.56%

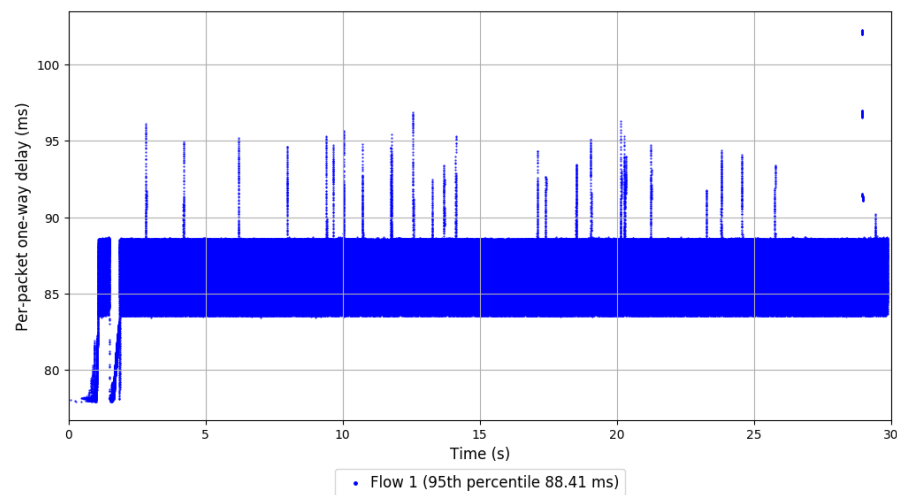
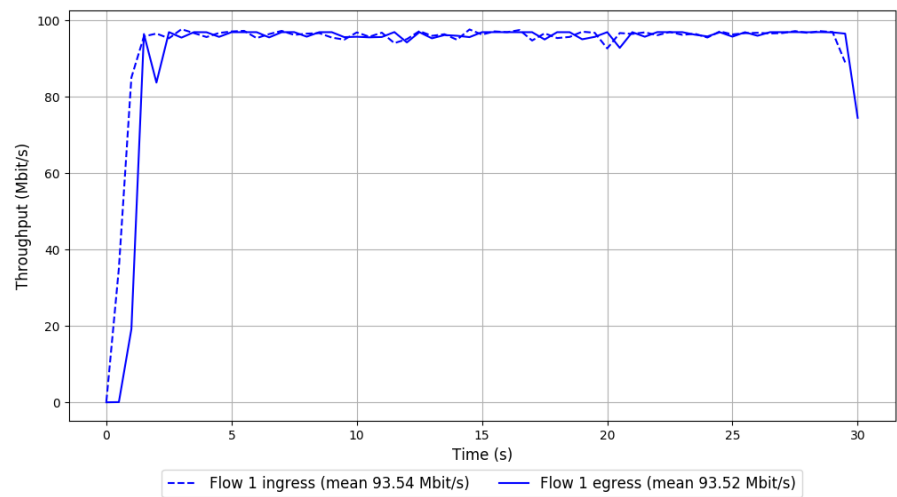
-- Flow 1:

Average throughput: 93.52 Mbit/s

95th percentile per-packet one-way delay: 88.406 ms

Loss rate: 0.56%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-05-25 04:05:44

End at: 2018-05-25 04:06:14

Local clock offset: -2.75 ms

Remote clock offset: 4.79 ms

Below is generated by plot.py at 2018-05-25 04:36:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.66 Mbit/s

95th percentile per-packet one-way delay: 92.638 ms

Loss rate: 0.59%

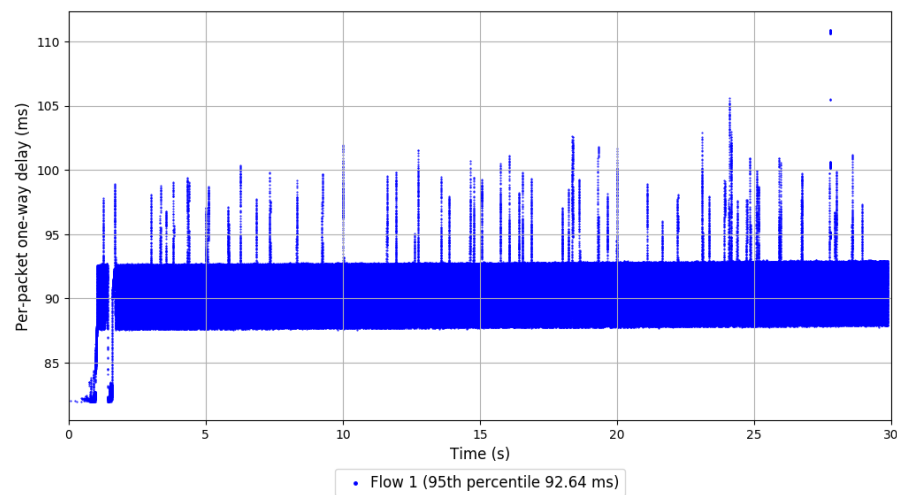
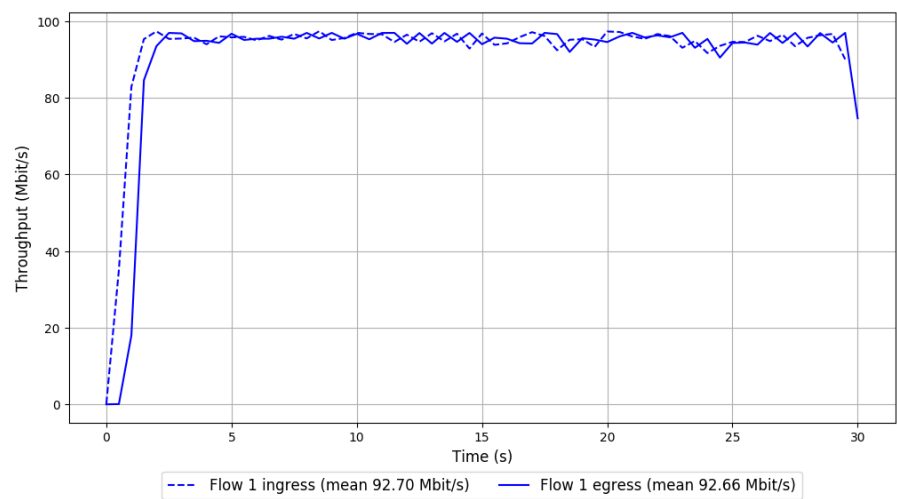
-- Flow 1:

Average throughput: 92.66 Mbit/s

95th percentile per-packet one-way delay: 92.638 ms

Loss rate: 0.59%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-05-25 04:24:13

End at: 2018-05-25 04:24:43

Local clock offset: -3.317 ms

Remote clock offset: 9.939 ms

Below is generated by plot.py at 2018-05-25 04:36:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.01 Mbit/s

95th percentile per-packet one-way delay: 92.663 ms

Loss rate: 0.58%

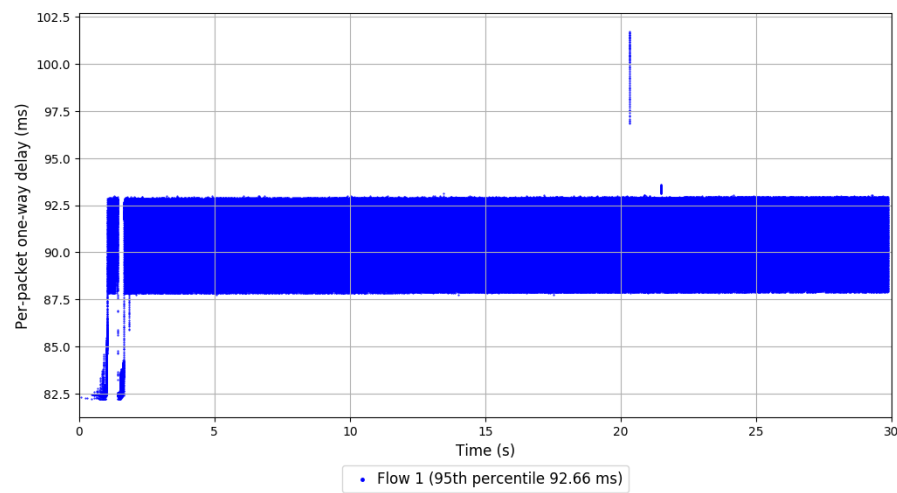
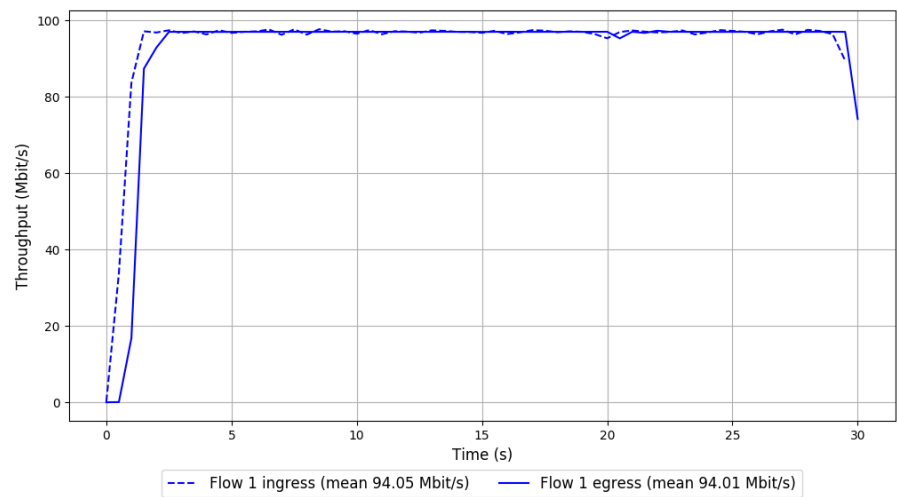
-- Flow 1:

Average throughput: 94.01 Mbit/s

95th percentile per-packet one-way delay: 92.663 ms

Loss rate: 0.58%

Run 10: Report of FillP — Data Link

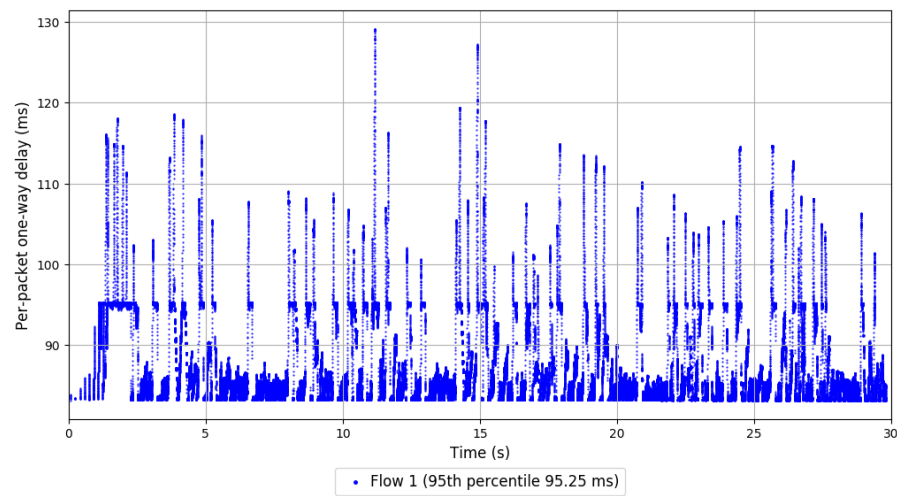
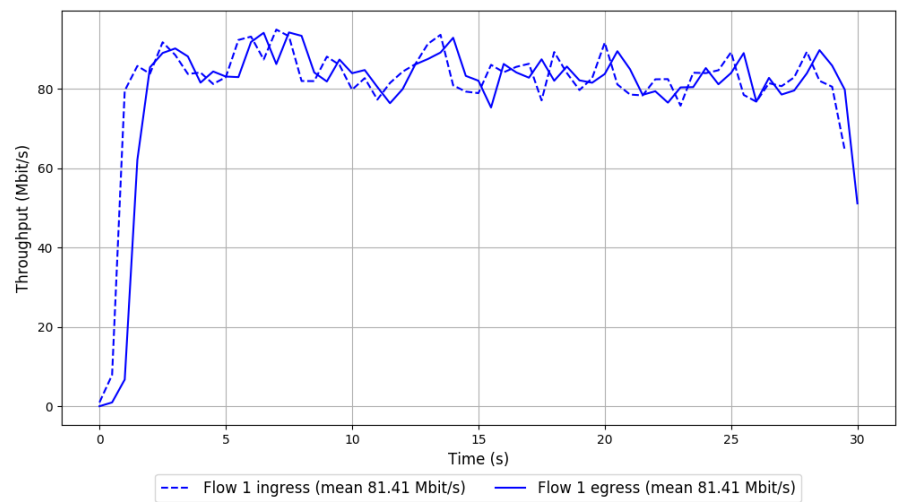


```
Run 1: Statistics of Indigo

Start at: 2018-05-25 01:36:54
End at: 2018-05-25 01:37:24
Local clock offset: -2.992 ms
Remote clock offset: 4.14 ms

# Below is generated by plot.py at 2018-05-25 04:36:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.41 Mbit/s
95th percentile per-packet one-way delay: 95.250 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 81.41 Mbit/s
95th percentile per-packet one-way delay: 95.250 ms
Loss rate: 0.55%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-05-25 01:55:17

End at: 2018-05-25 01:55:47

Local clock offset: -1.016 ms

Remote clock offset: 3.543 ms

Below is generated by plot.py at 2018-05-25 04:36:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.32 Mbit/s

95th percentile per-packet one-way delay: 102.560 ms

Loss rate: 0.52%

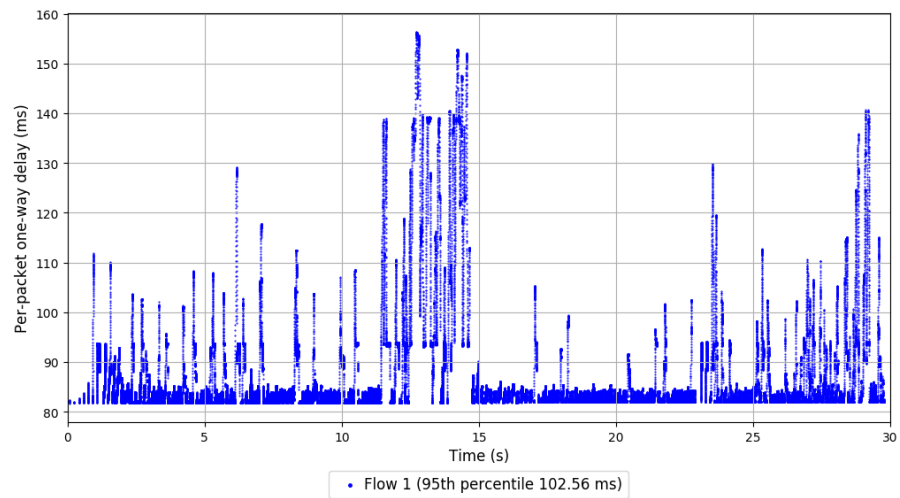
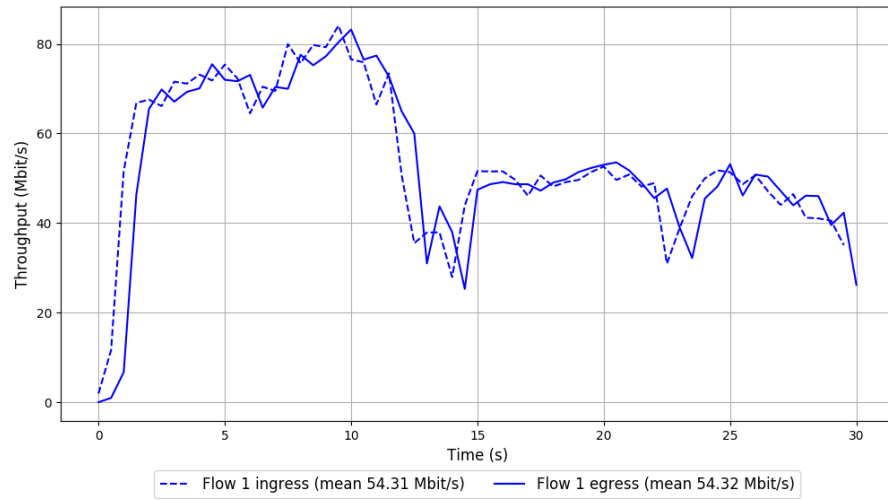
-- Flow 1:

Average throughput: 54.32 Mbit/s

95th percentile per-packet one-way delay: 102.560 ms

Loss rate: 0.52%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-05-25 02:13:39

End at: 2018-05-25 02:14:09

Local clock offset: -6.364 ms

Remote clock offset: 4.358 ms

Below is generated by plot.py at 2018-05-25 04:36:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.03 Mbit/s

95th percentile per-packet one-way delay: 92.944 ms

Loss rate: 0.58%

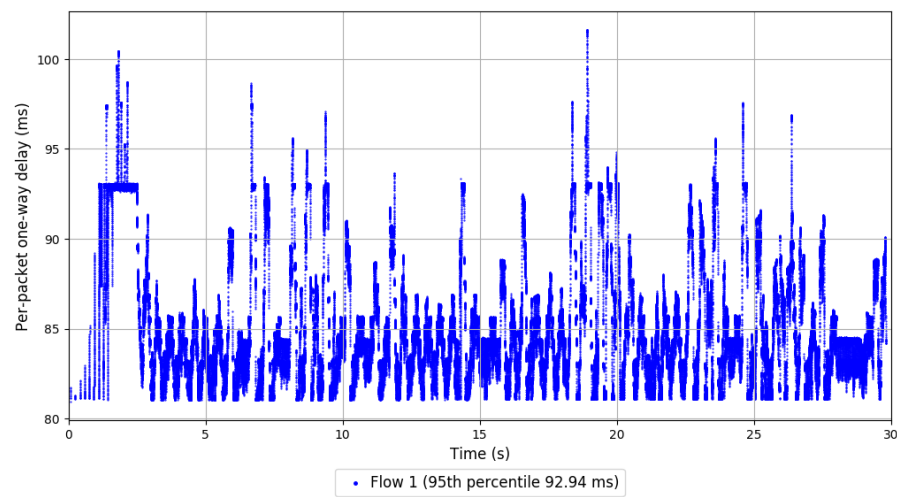
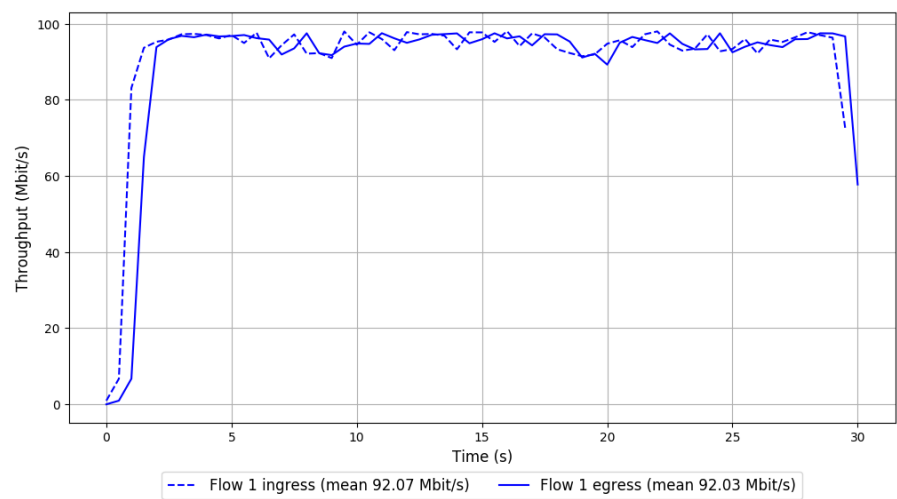
-- Flow 1:

Average throughput: 92.03 Mbit/s

95th percentile per-packet one-way delay: 92.944 ms

Loss rate: 0.58%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-05-25 02:32:07

End at: 2018-05-25 02:32:37

Local clock offset: -4.168 ms

Remote clock offset: 8.537 ms

Below is generated by plot.py at 2018-05-25 04:36:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.65 Mbit/s

95th percentile per-packet one-way delay: 85.553 ms

Loss rate: 0.58%

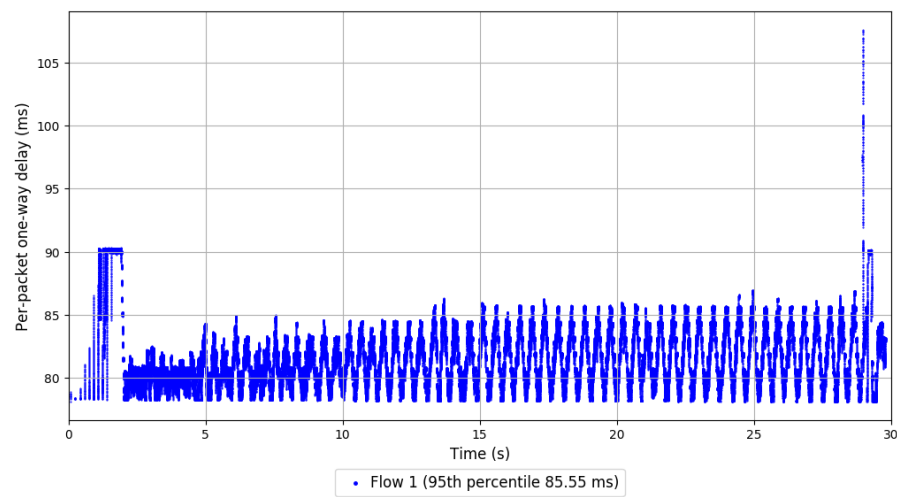
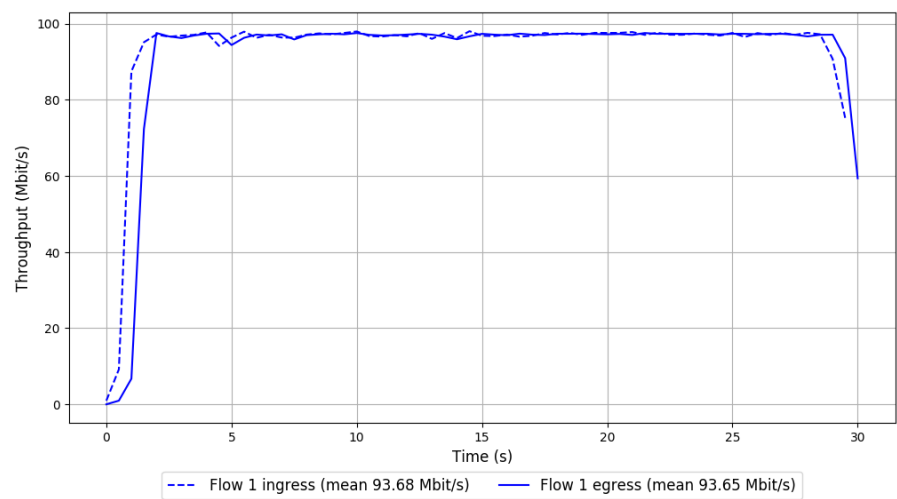
-- Flow 1:

Average throughput: 93.65 Mbit/s

95th percentile per-packet one-way delay: 85.553 ms

Loss rate: 0.58%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-05-25 02:50:34

End at: 2018-05-25 02:51:04

Local clock offset: -1.068 ms

Remote clock offset: 6.592 ms

Below is generated by plot.py at 2018-05-25 04:37:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.41 Mbit/s

95th percentile per-packet one-way delay: 88.900 ms

Loss rate: 0.54%

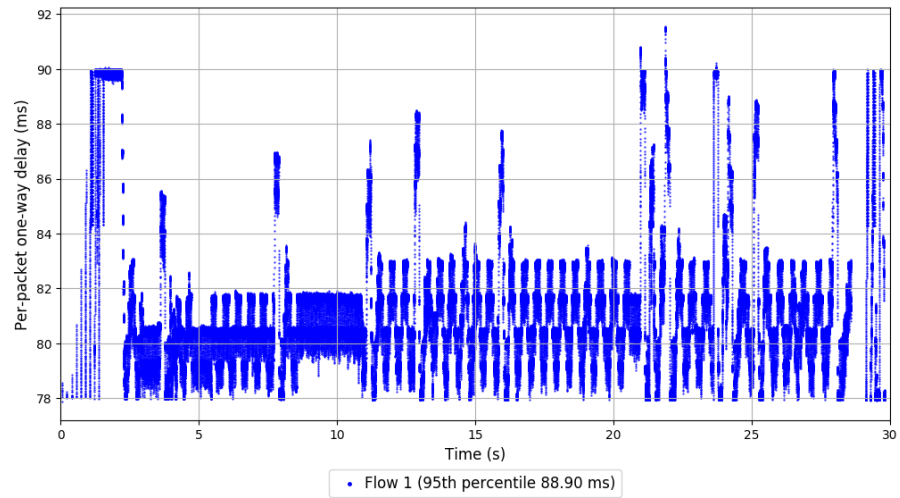
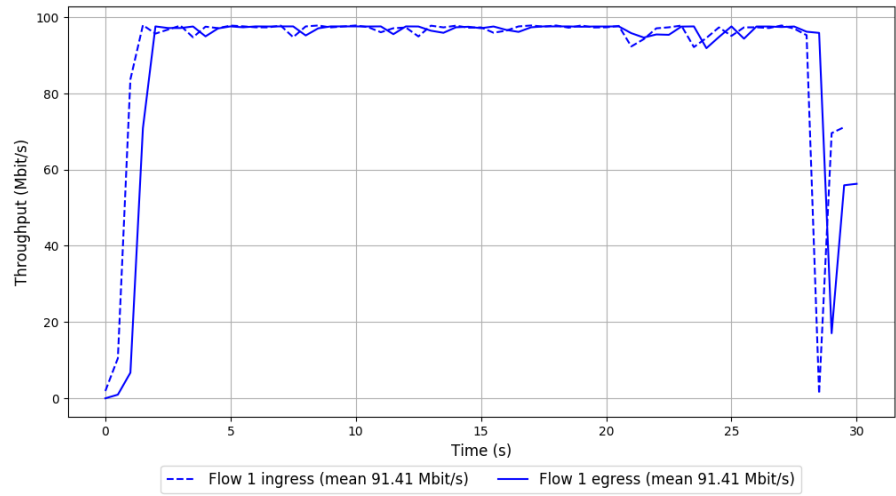
-- Flow 1:

Average throughput: 91.41 Mbit/s

95th percentile per-packet one-way delay: 88.900 ms

Loss rate: 0.54%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-05-25 03:09:02

End at: 2018-05-25 03:09:32

Local clock offset: -1.484 ms

Remote clock offset: 2.817 ms

Below is generated by plot.py at 2018-05-25 04:37:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.89 Mbit/s

95th percentile per-packet one-way delay: 95.591 ms

Loss rate: 4.93%

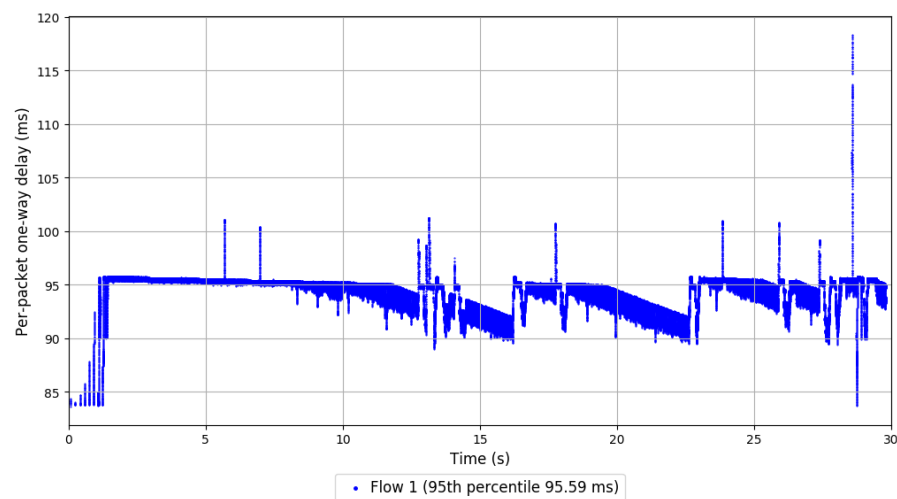
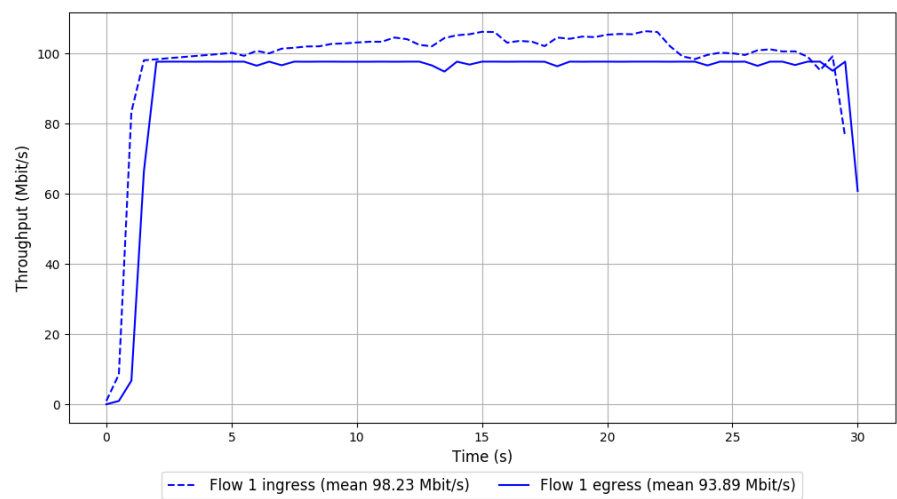
-- Flow 1:

Average throughput: 93.89 Mbit/s

95th percentile per-packet one-way delay: 95.591 ms

Loss rate: 4.93%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-05-25 03:27:30

End at: 2018-05-25 03:28:00

Local clock offset: -1.492 ms

Remote clock offset: 2.761 ms

Below is generated by plot.py at 2018-05-25 04:37:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.36 Mbit/s

95th percentile per-packet one-way delay: 94.095 ms

Loss rate: 0.59%

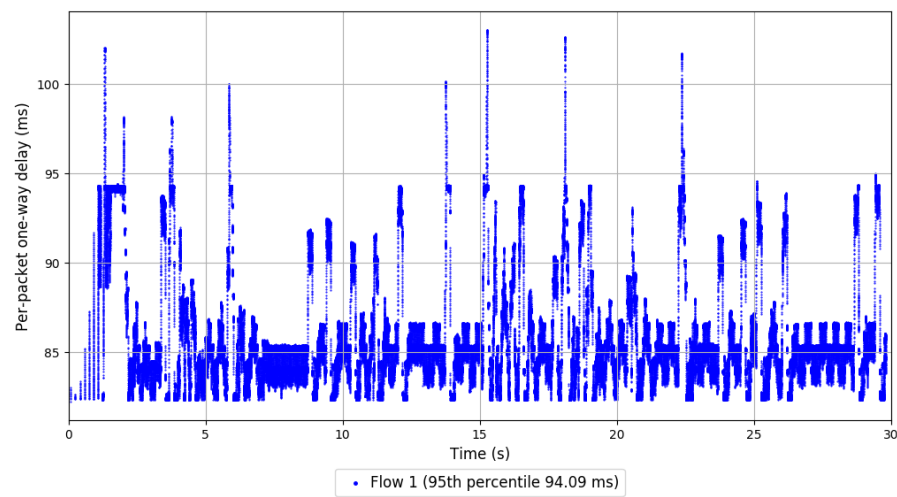
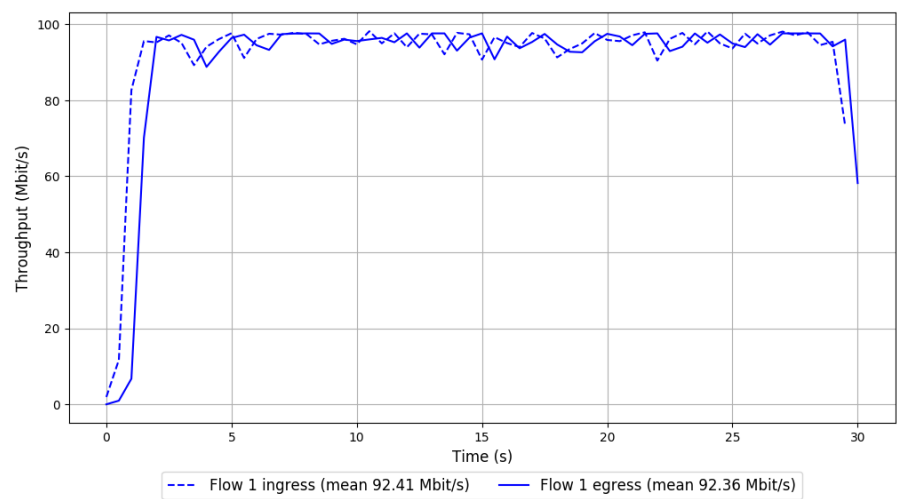
-- Flow 1:

Average throughput: 92.36 Mbit/s

95th percentile per-packet one-way delay: 94.095 ms

Loss rate: 0.59%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-05-25 03:45:59

End at: 2018-05-25 03:46:29

Local clock offset: -1.857 ms

Remote clock offset: 8.578 ms

Below is generated by plot.py at 2018-05-25 04:37:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.65 Mbit/s

95th percentile per-packet one-way delay: 90.309 ms

Loss rate: 0.60%

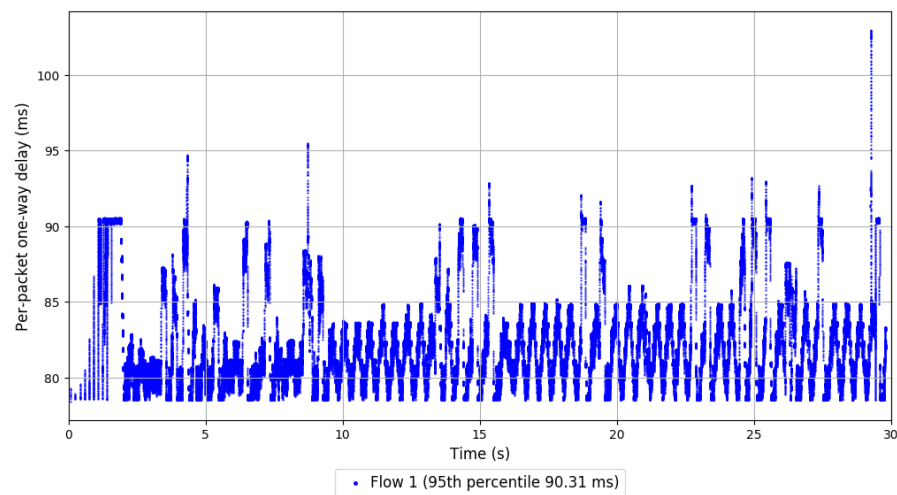
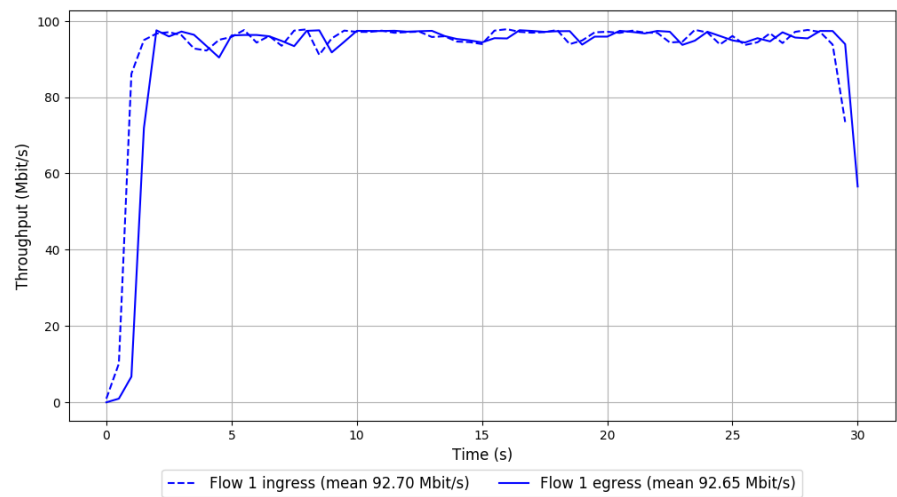
-- Flow 1:

Average throughput: 92.65 Mbit/s

95th percentile per-packet one-way delay: 90.309 ms

Loss rate: 0.60%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-05-25 04:04:32

End at: 2018-05-25 04:05:02

Local clock offset: -2.665 ms

Remote clock offset: 3.978 ms

Below is generated by plot.py at 2018-05-25 04:37:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.61 Mbit/s

95th percentile per-packet one-way delay: 98.448 ms

Loss rate: 1.02%

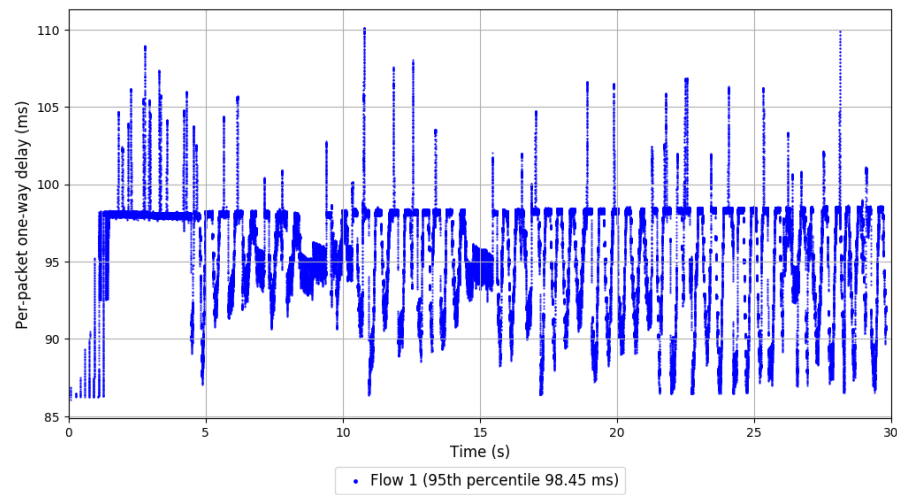
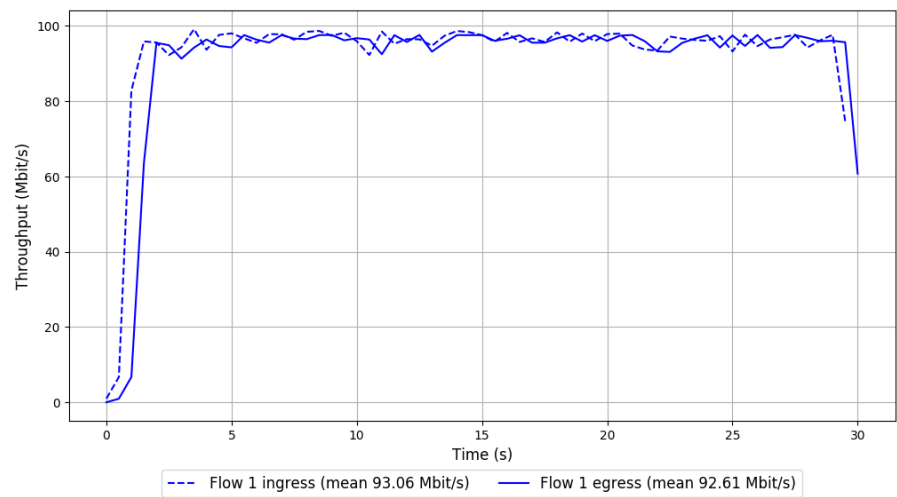
-- Flow 1:

Average throughput: 92.61 Mbit/s

95th percentile per-packet one-way delay: 98.448 ms

Loss rate: 1.02%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-05-25 04:23:00

End at: 2018-05-25 04:23:31

Local clock offset: -3.362 ms

Remote clock offset: 14.515 ms

Below is generated by plot.py at 2018-05-25 04:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.40 Mbit/s

95th percentile per-packet one-way delay: 91.191 ms

Loss rate: 0.59%

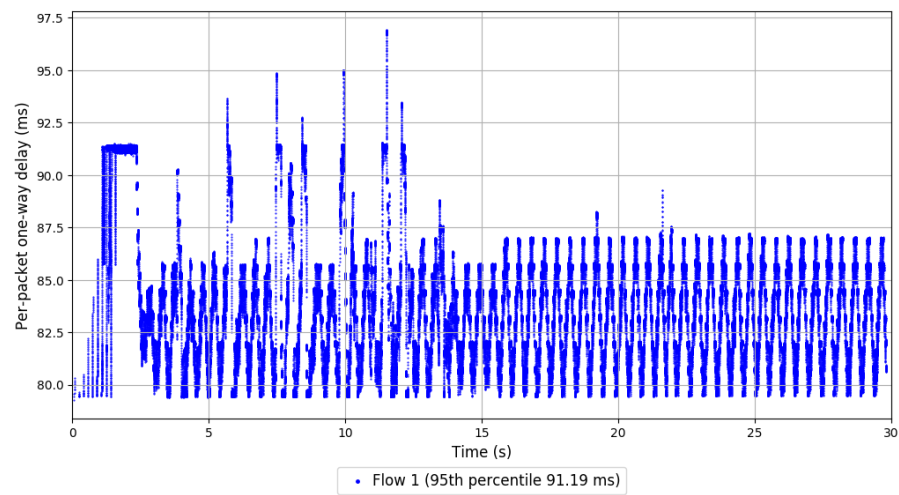
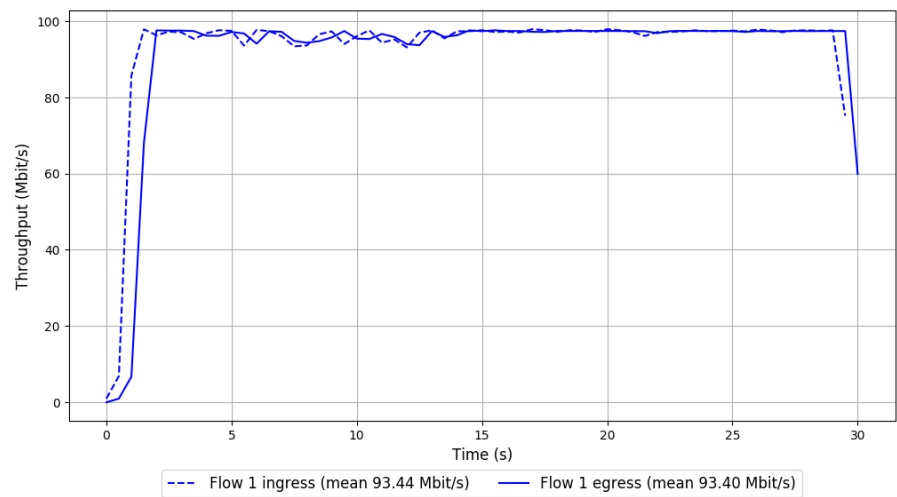
-- Flow 1:

Average throughput: 93.40 Mbit/s

95th percentile per-packet one-way delay: 91.191 ms

Loss rate: 0.59%

Run 10: Report of Indigo — Data Link

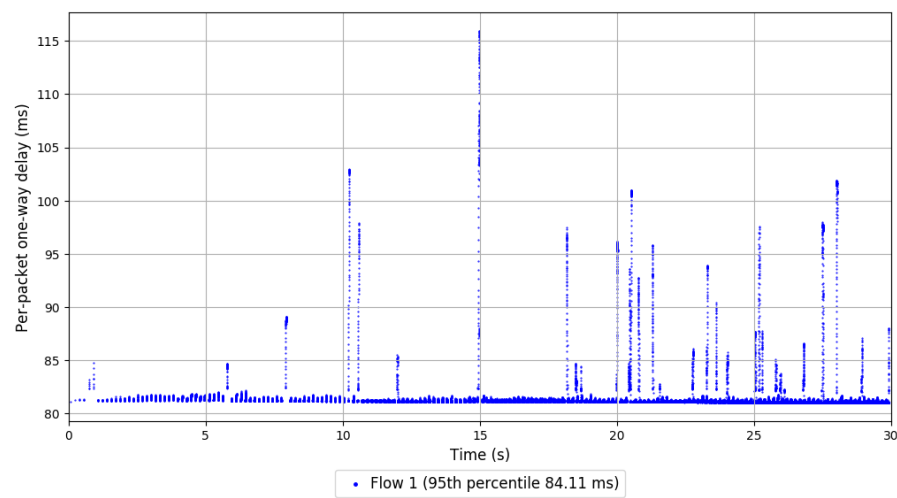
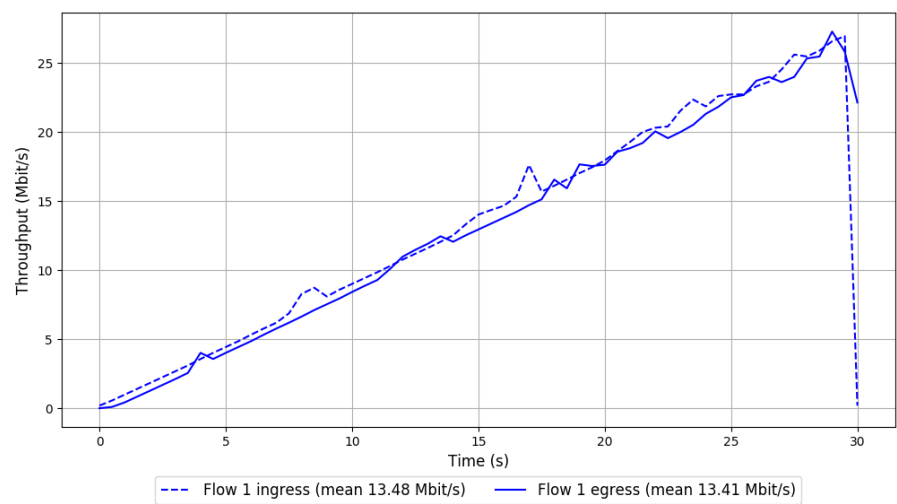


```
Run 1: Statistics of LEDBAT

Start at: 2018-05-25 01:30:01
End at: 2018-05-25 01:30:31
Local clock offset: -5.16 ms
Remote clock offset: 4.075 ms

# Below is generated by plot.py at 2018-05-25 04:37:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.41 Mbit/s
95th percentile per-packet one-way delay: 84.107 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 13.41 Mbit/s
95th percentile per-packet one-way delay: 84.107 ms
Loss rate: 1.08%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-05-25 01:48:24

End at: 2018-05-25 01:48:54

Local clock offset: -1.407 ms

Remote clock offset: 3.439 ms

Below is generated by plot.py at 2018-05-25 04:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.26 Mbit/s

95th percentile per-packet one-way delay: 87.780 ms

Loss rate: 1.09%

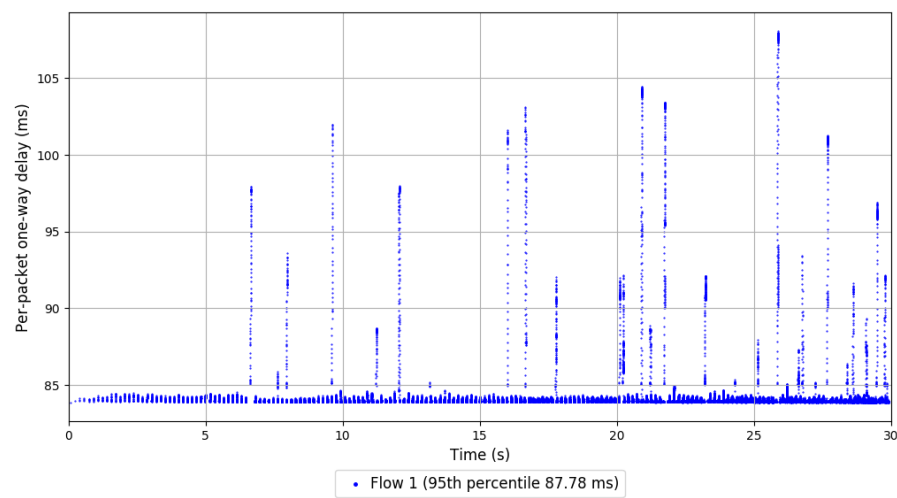
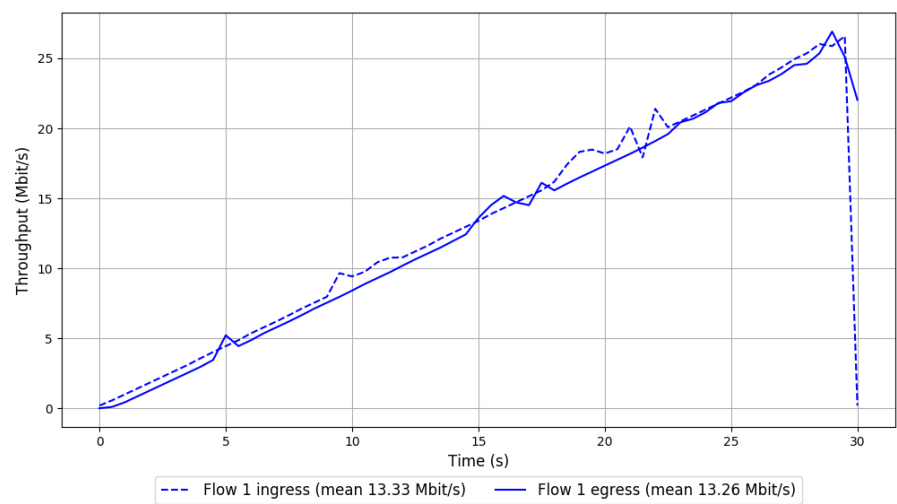
-- Flow 1:

Average throughput: 13.26 Mbit/s

95th percentile per-packet one-way delay: 87.780 ms

Loss rate: 1.09%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-05-25 02:06:46

End at: 2018-05-25 02:07:16

Local clock offset: -5.241 ms

Remote clock offset: 4.242 ms

Below is generated by plot.py at 2018-05-25 04:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.43 Mbit/s

95th percentile per-packet one-way delay: 84.419 ms

Loss rate: 1.09%

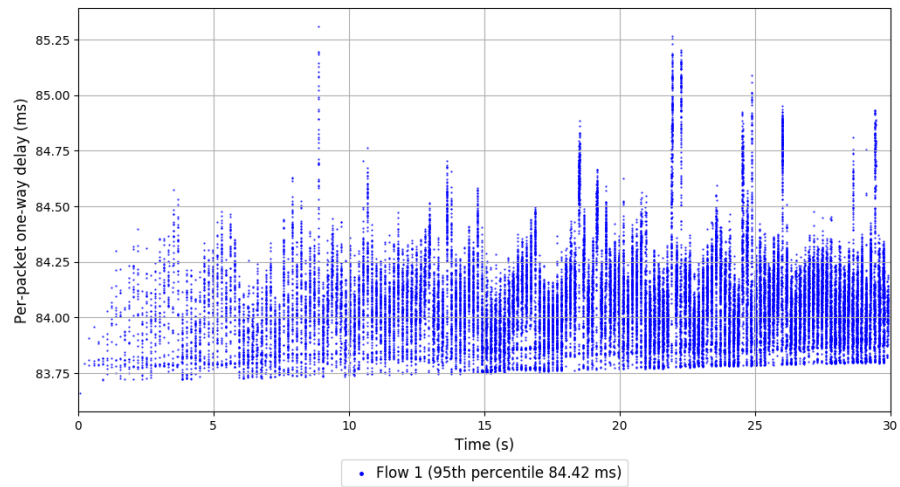
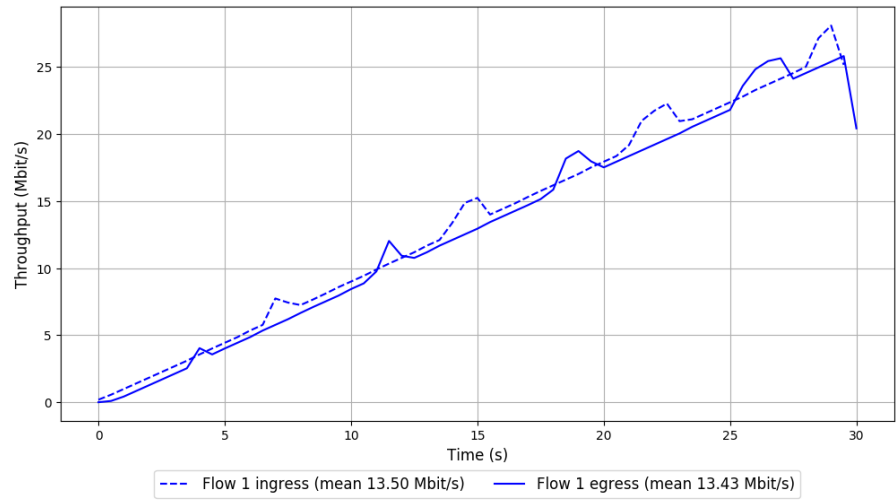
-- Flow 1:

Average throughput: 13.43 Mbit/s

95th percentile per-packet one-way delay: 84.419 ms

Loss rate: 1.09%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-05-25 02:25:14

End at: 2018-05-25 02:25:44

Local clock offset: -7.411 ms

Remote clock offset: 6.964 ms

Below is generated by plot.py at 2018-05-25 04:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.11 Mbit/s

95th percentile per-packet one-way delay: 82.792 ms

Loss rate: 1.10%

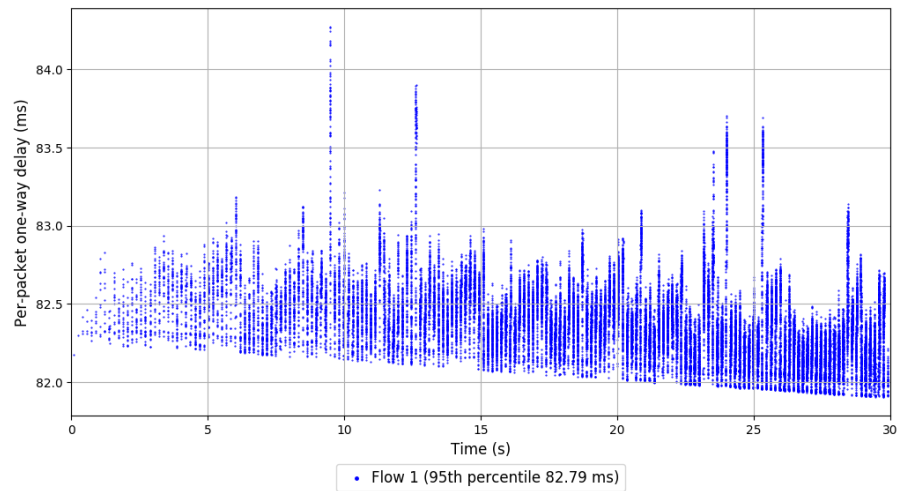
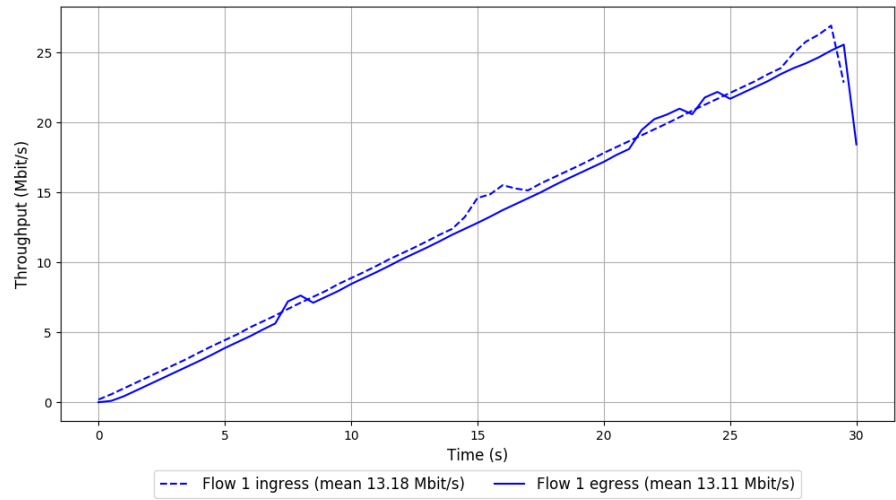
-- Flow 1:

Average throughput: 13.11 Mbit/s

95th percentile per-packet one-way delay: 82.792 ms

Loss rate: 1.10%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-05-25 02:43:41

End at: 2018-05-25 02:44:11

Local clock offset: -1.815 ms

Remote clock offset: 8.237 ms

Below is generated by plot.py at 2018-05-25 04:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.82 Mbit/s

95th percentile per-packet one-way delay: 77.466 ms

Loss rate: 1.12%

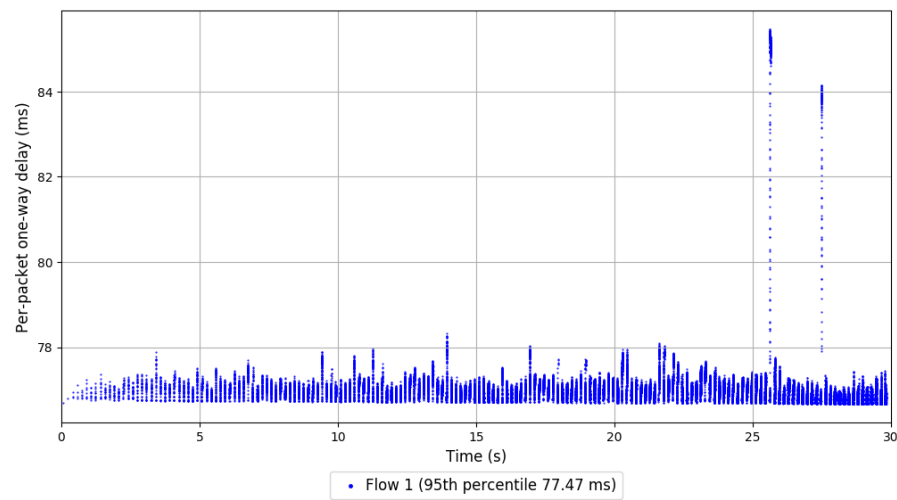
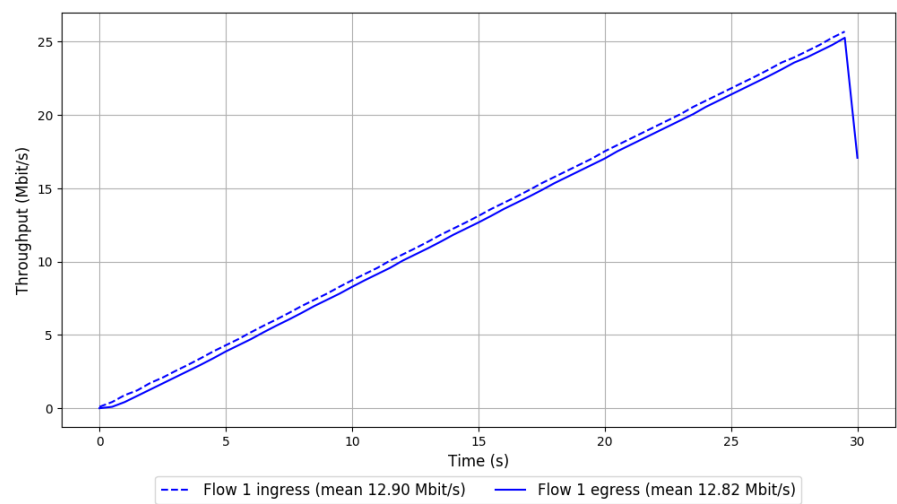
-- Flow 1:

Average throughput: 12.82 Mbit/s

95th percentile per-packet one-way delay: 77.466 ms

Loss rate: 1.12%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-05-25 03:02:08

End at: 2018-05-25 03:02:38

Local clock offset: -1.34 ms

Remote clock offset: 2.832 ms

Below is generated by plot.py at 2018-05-25 04:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.84 Mbit/s

95th percentile per-packet one-way delay: 82.547 ms

Loss rate: 1.07%

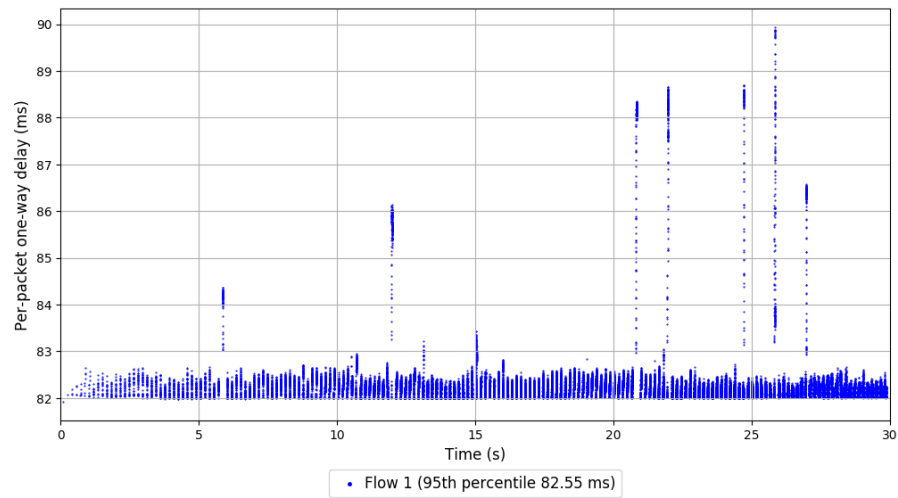
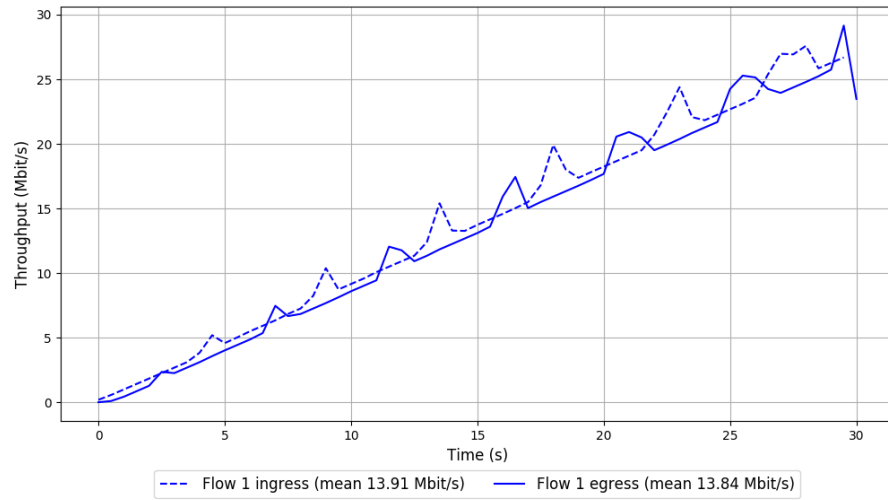
-- Flow 1:

Average throughput: 13.84 Mbit/s

95th percentile per-packet one-way delay: 82.547 ms

Loss rate: 1.07%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-05-25 03:20:37

End at: 2018-05-25 03:21:07

Local clock offset: -1.433 ms

Remote clock offset: 7.546 ms

Below is generated by plot.py at 2018-05-25 04:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.67 Mbit/s

95th percentile per-packet one-way delay: 78.337 ms

Loss rate: 1.08%

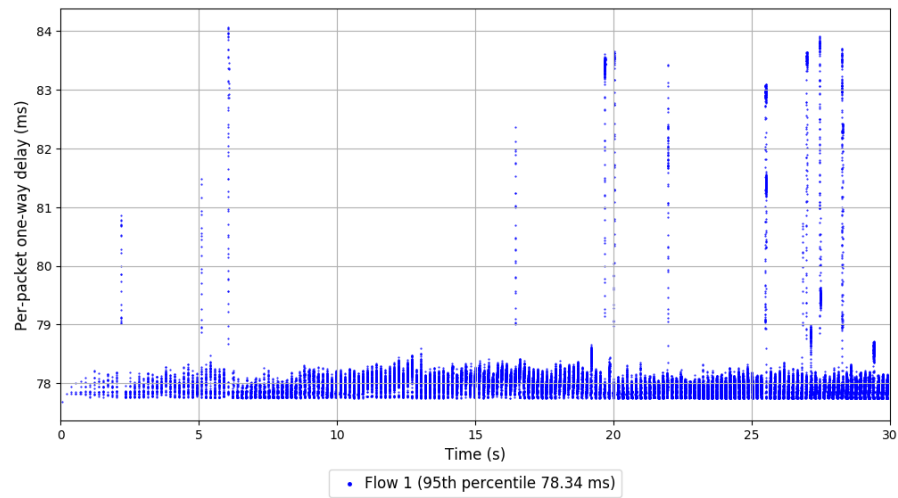
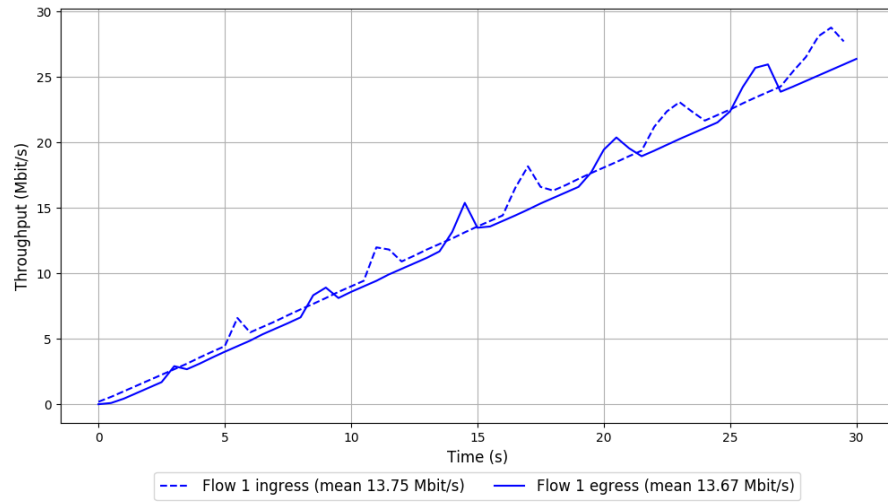
-- Flow 1:

Average throughput: 13.67 Mbit/s

95th percentile per-packet one-way delay: 78.337 ms

Loss rate: 1.08%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-05-25 03:39:05

End at: 2018-05-25 03:39:35

Local clock offset: -1.945 ms

Remote clock offset: 3.054 ms

Below is generated by plot.py at 2018-05-25 04:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.88 Mbit/s

95th percentile per-packet one-way delay: 82.337 ms

Loss rate: 1.06%

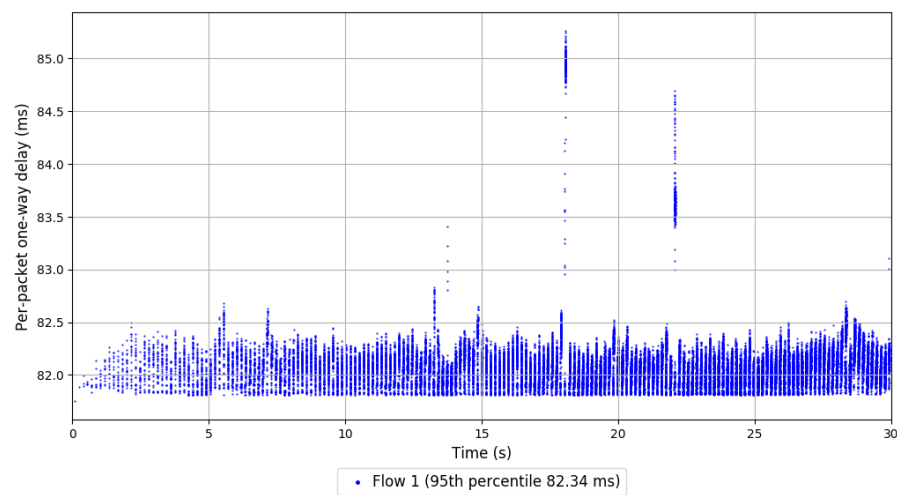
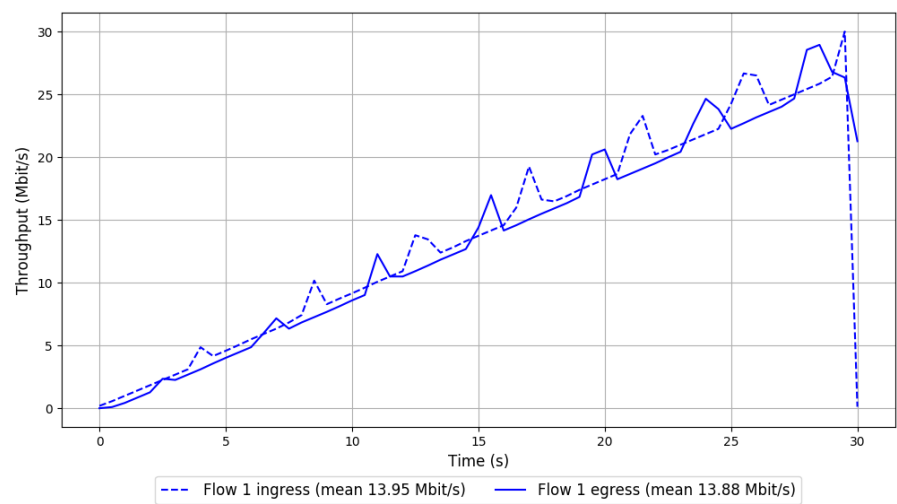
-- Flow 1:

Average throughput: 13.88 Mbit/s

95th percentile per-packet one-way delay: 82.337 ms

Loss rate: 1.06%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-05-25 03:57:39

End at: 2018-05-25 03:58:09

Local clock offset: -2.069 ms

Remote clock offset: 4.108 ms

Below is generated by plot.py at 2018-05-25 04:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.41 Mbit/s

95th percentile per-packet one-way delay: 83.730 ms

Loss rate: 1.09%

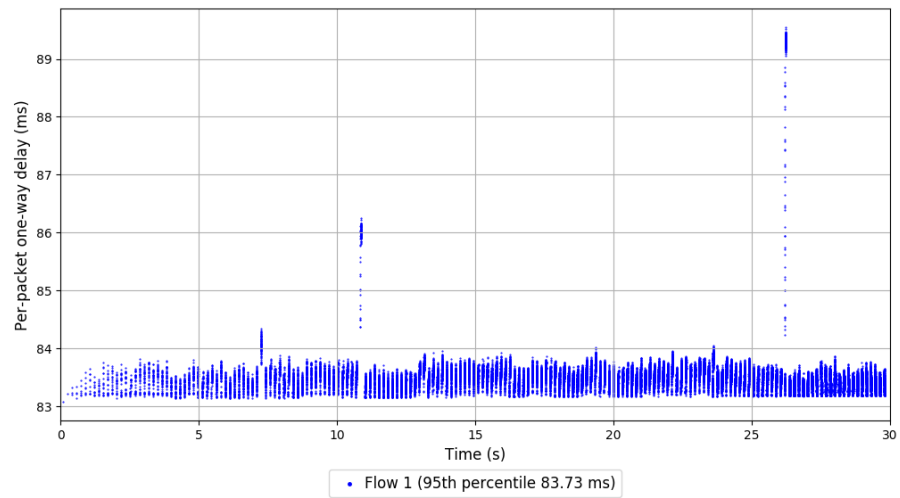
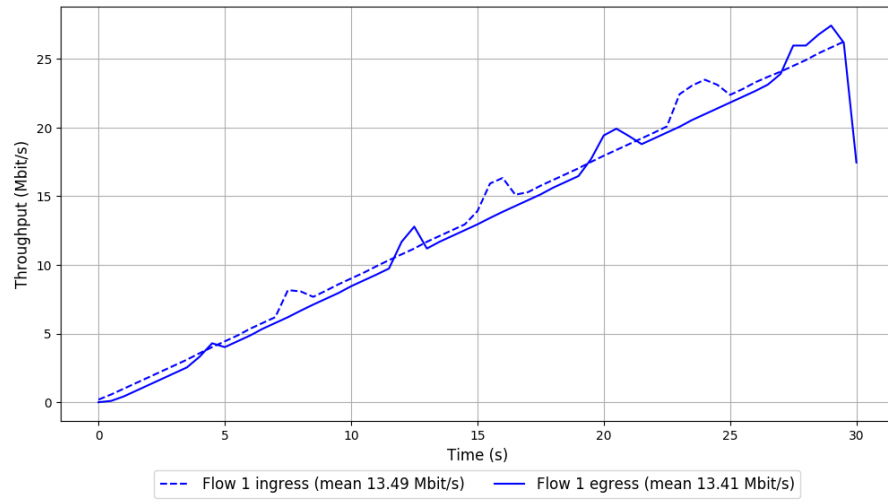
-- Flow 1:

Average throughput: 13.41 Mbit/s

95th percentile per-packet one-way delay: 83.730 ms

Loss rate: 1.09%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-05-25 04:16:07

End at: 2018-05-25 04:16:37

Local clock offset: -3.118 ms

Remote clock offset: 9.394 ms

Below is generated by plot.py at 2018-05-25 04:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.84 Mbit/s

95th percentile per-packet one-way delay: 82.382 ms

Loss rate: 1.07%

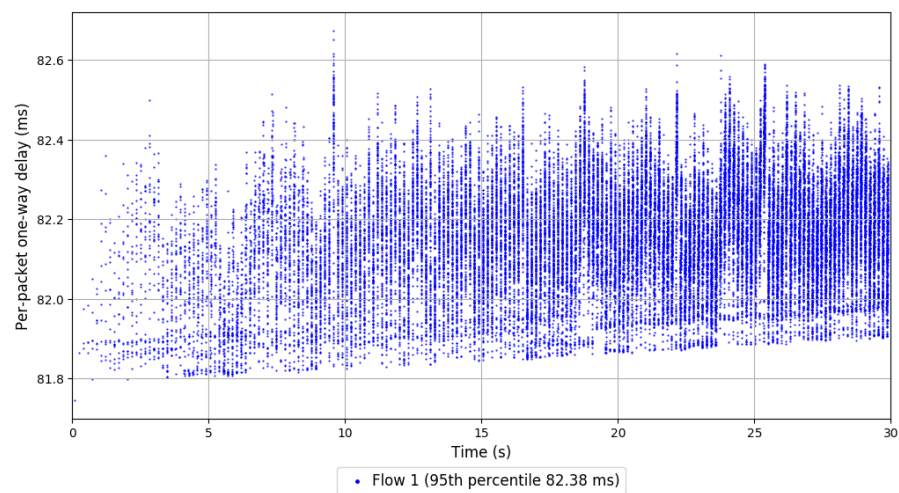
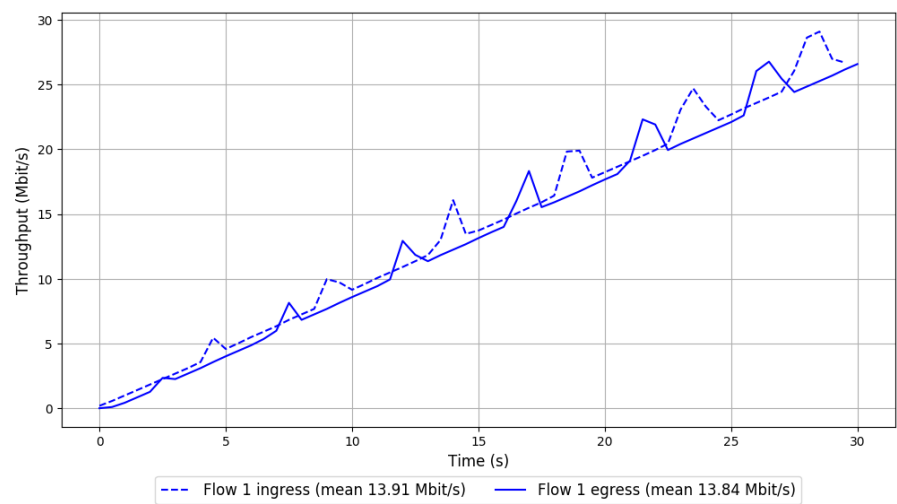
-- Flow 1:

Average throughput: 13.84 Mbit/s

95th percentile per-packet one-way delay: 82.382 ms

Loss rate: 1.07%

Run 10: Report of LEDBAT — Data Link

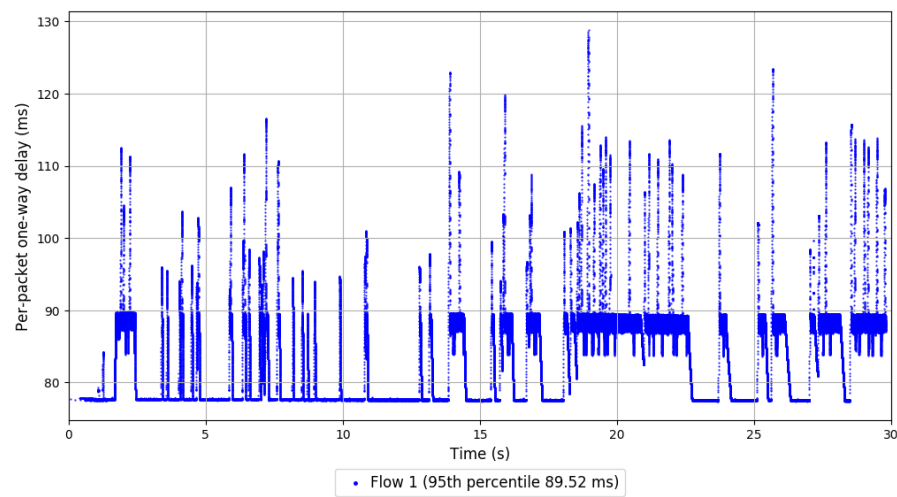
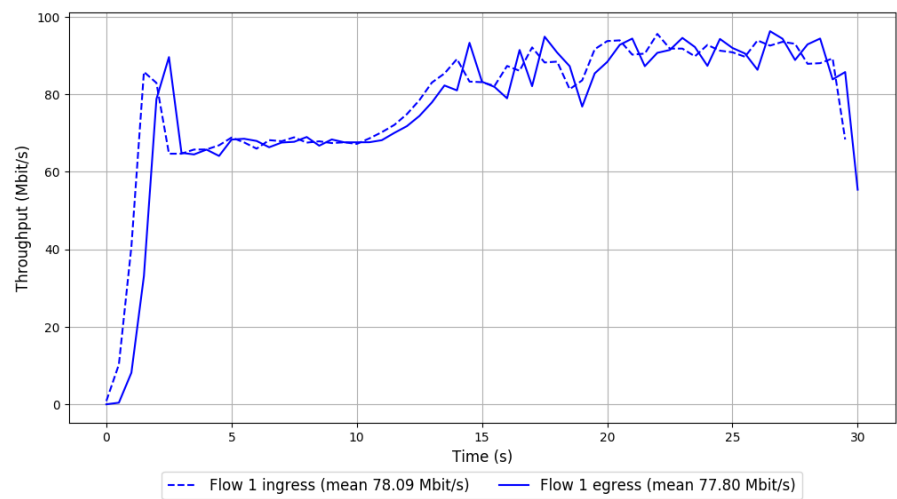


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-05-25 01:27:46
End at: 2018-05-25 01:28:16
Local clock offset: -6.35 ms
Remote clock offset: 8.58 ms

# Below is generated by plot.py at 2018-05-25 04:38:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.80 Mbit/s
95th percentile per-packet one-way delay: 89.523 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 77.80 Mbit/s
95th percentile per-packet one-way delay: 89.523 ms
Loss rate: 0.91%
```


Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-25 01:46:09

End at: 2018-05-25 01:46:39

Local clock offset: -1.604 ms

Remote clock offset: 7.236 ms

Below is generated by plot.py at 2018-05-25 04:38:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.38 Mbit/s

95th percentile per-packet one-way delay: 91.667 ms

Loss rate: 0.69%

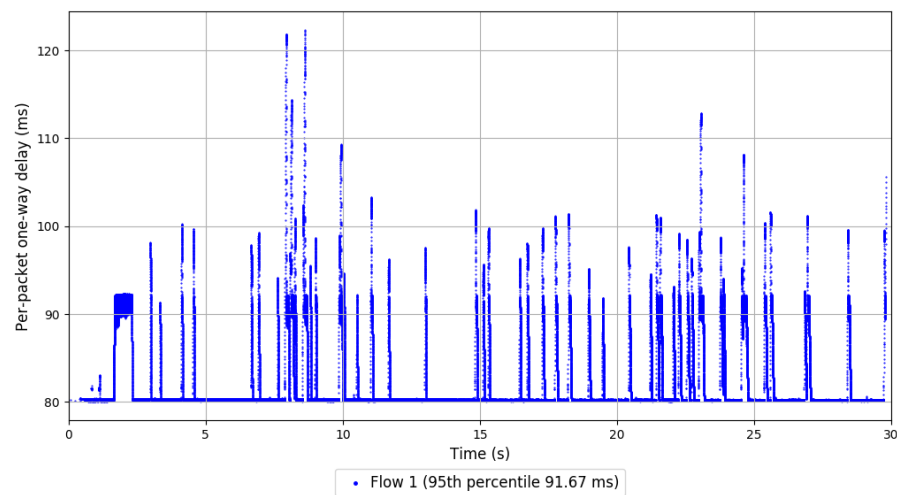
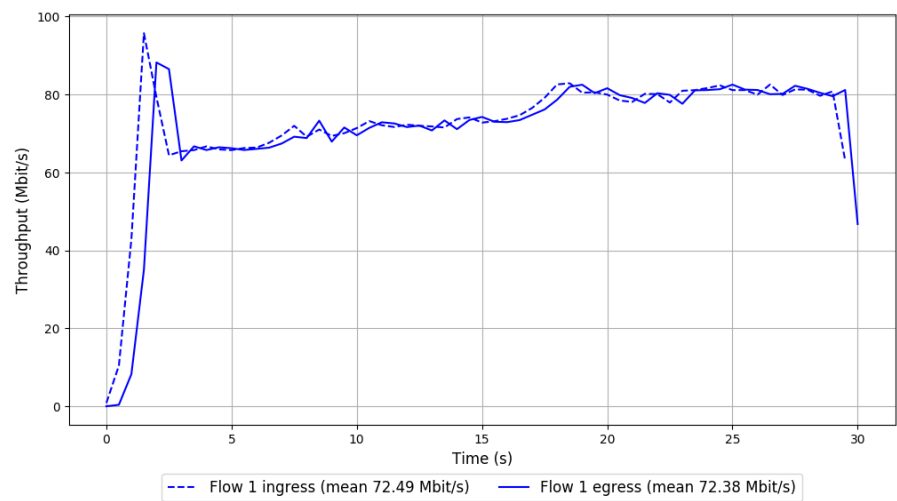
-- Flow 1:

Average throughput: 72.38 Mbit/s

95th percentile per-packet one-way delay: 91.667 ms

Loss rate: 0.69%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-05-25 02:04:30

End at: 2018-05-25 02:05:00

Local clock offset: -4.708 ms

Remote clock offset: 4.364 ms

Below is generated by plot.py at 2018-05-25 04:38:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.34 Mbit/s

95th percentile per-packet one-way delay: 95.773 ms

Loss rate: 1.11%

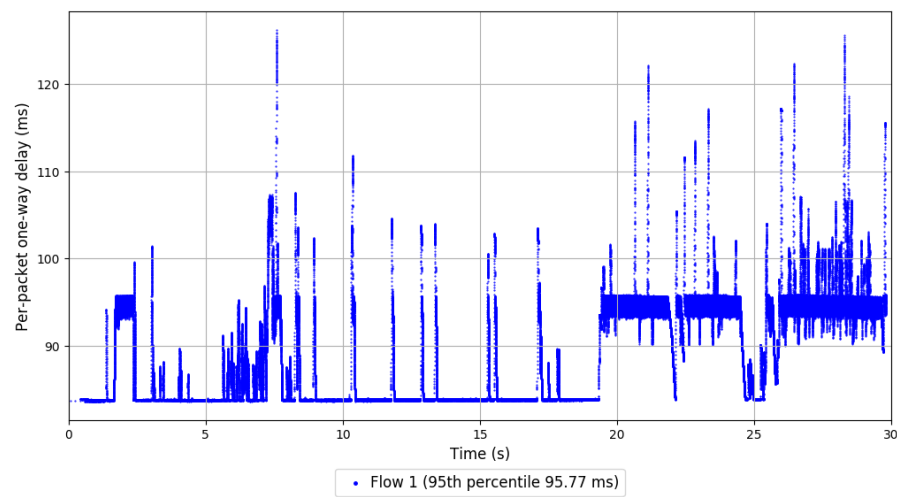
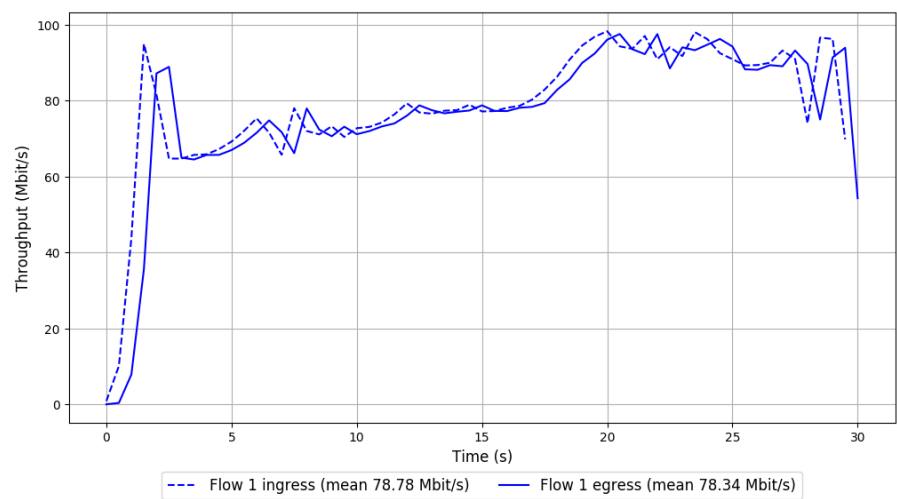
-- Flow 1:

Average throughput: 78.34 Mbit/s

95th percentile per-packet one-way delay: 95.773 ms

Loss rate: 1.11%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-05-25 02:22:58

End at: 2018-05-25 02:23:28

Local clock offset: -7.186 ms

Remote clock offset: 3.265 ms

Below is generated by plot.py at 2018-05-25 04:38:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.16 Mbit/s

95th percentile per-packet one-way delay: 91.892 ms

Loss rate: 0.63%

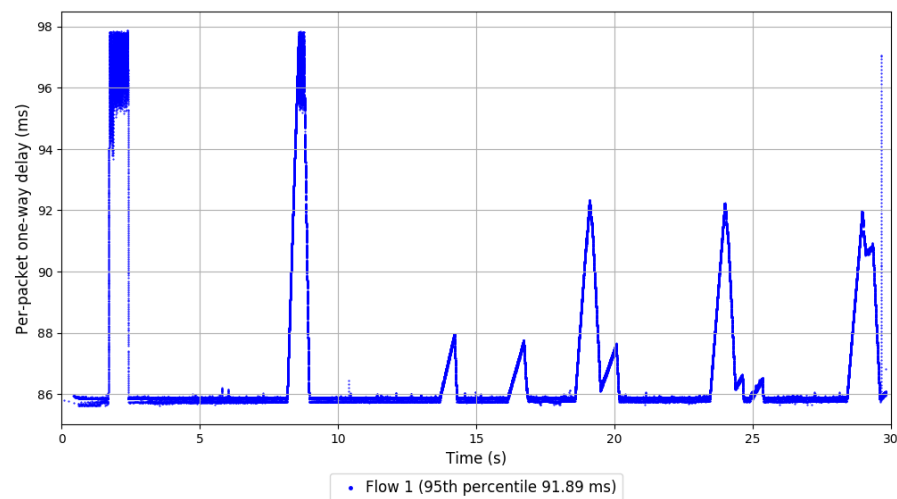
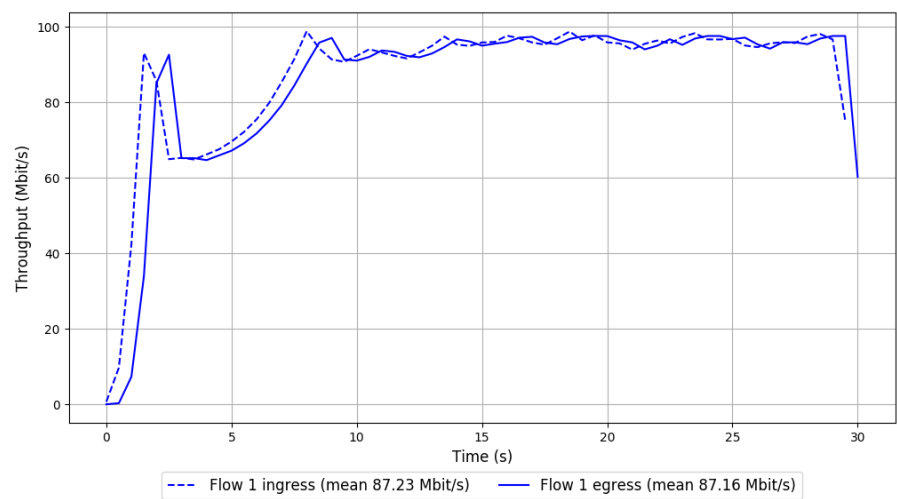
-- Flow 1:

Average throughput: 87.16 Mbit/s

95th percentile per-packet one-way delay: 91.892 ms

Loss rate: 0.63%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-05-25 02:41:25

End at: 2018-05-25 02:41:55

Local clock offset: -2.035 ms

Remote clock offset: 3.787 ms

Below is generated by plot.py at 2018-05-25 04:38:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.52 Mbit/s

95th percentile per-packet one-way delay: 95.635 ms

Loss rate: 0.69%

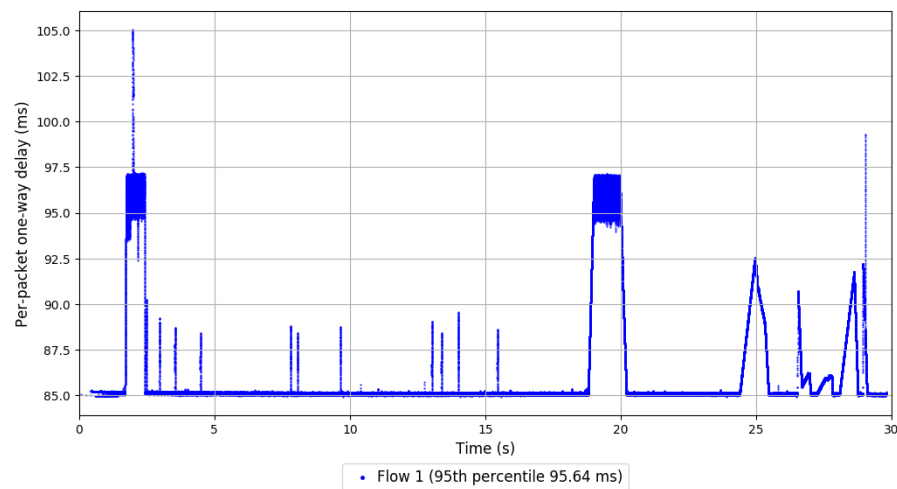
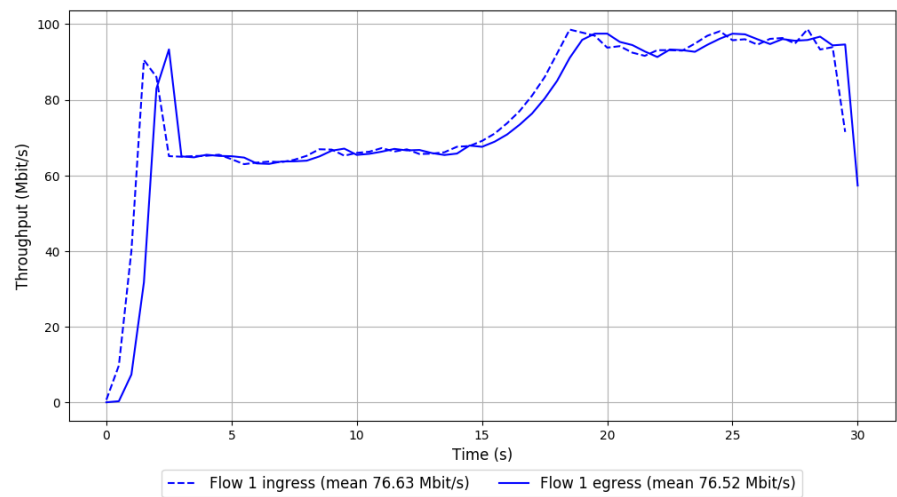
-- Flow 1:

Average throughput: 76.52 Mbit/s

95th percentile per-packet one-way delay: 95.635 ms

Loss rate: 0.69%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-05-25 02:59:52

End at: 2018-05-25 03:00:22

Local clock offset: -1.174 ms

Remote clock offset: 7.415 ms

Below is generated by plot.py at 2018-05-25 04:38:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.40 Mbit/s

95th percentile per-packet one-way delay: 89.101 ms

Loss rate: 0.74%

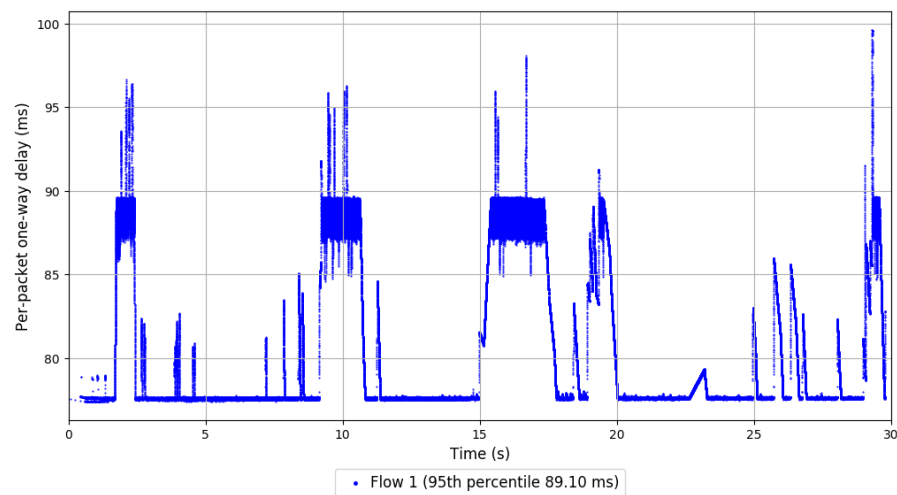
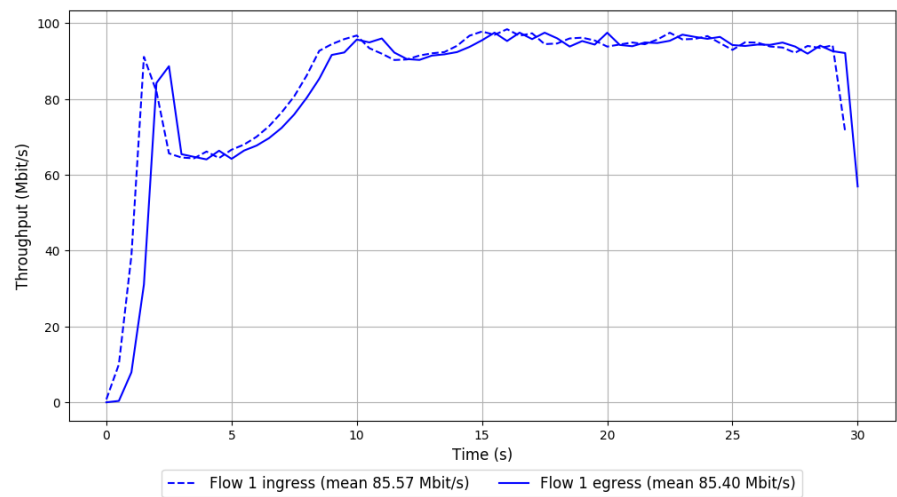
-- Flow 1:

Average throughput: 85.40 Mbit/s

95th percentile per-packet one-way delay: 89.101 ms

Loss rate: 0.74%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-05-25 03:18:20

End at: 2018-05-25 03:18:50

Local clock offset: -1.569 ms

Remote clock offset: 2.87 ms

Below is generated by plot.py at 2018-05-25 04:38:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.56 Mbit/s

95th percentile per-packet one-way delay: 92.678 ms

Loss rate: 0.63%

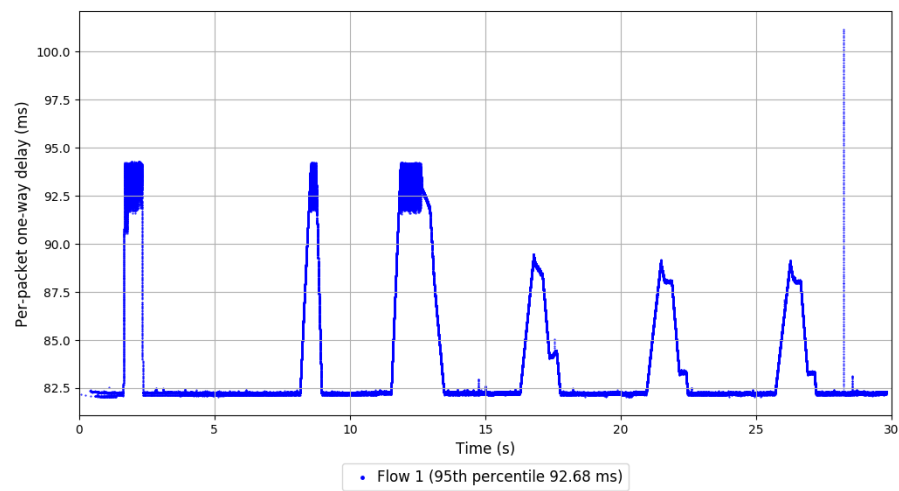
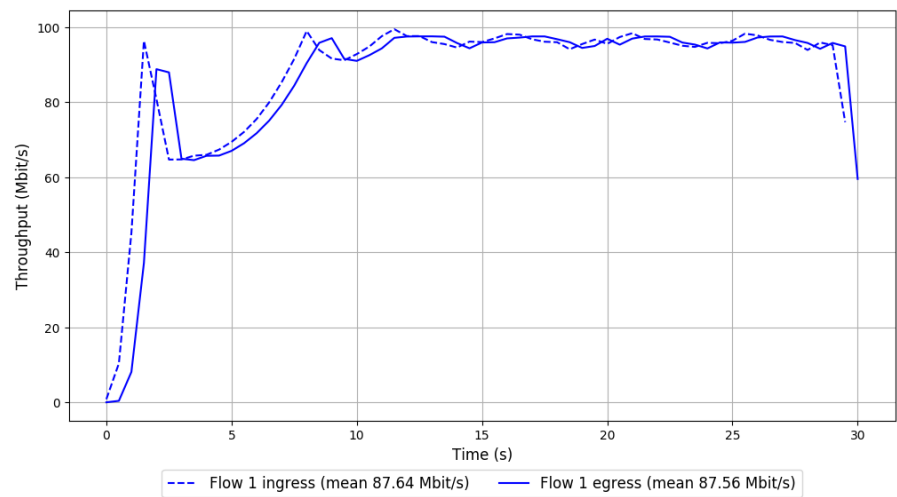
-- Flow 1:

Average throughput: 87.56 Mbit/s

95th percentile per-packet one-way delay: 92.678 ms

Loss rate: 0.63%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-05-25 03:36:49

End at: 2018-05-25 03:37:19

Local clock offset: -1.799 ms

Remote clock offset: 7.799 ms

Below is generated by plot.py at 2018-05-25 04:38:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.77 Mbit/s

95th percentile per-packet one-way delay: 89.036 ms

Loss rate: 0.63%

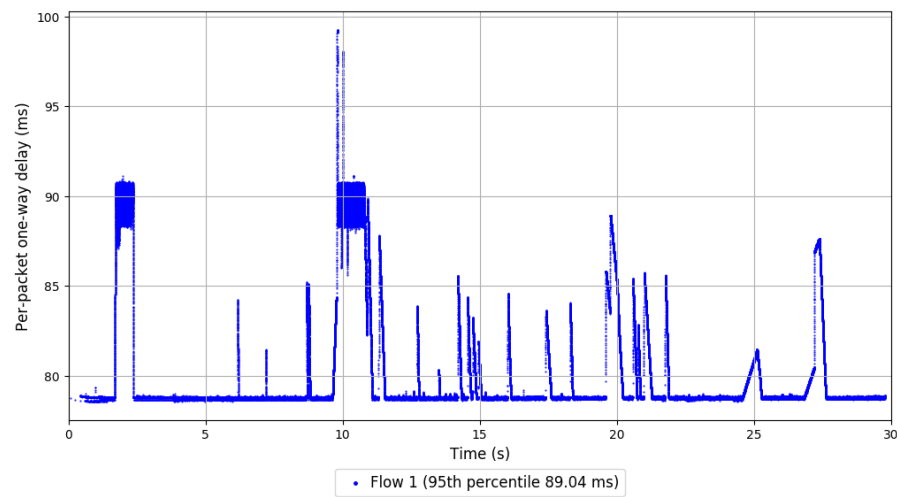
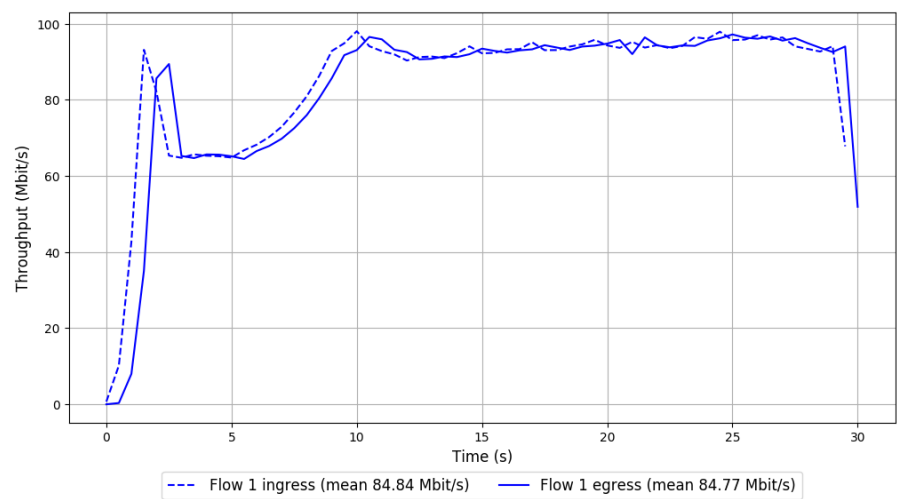
-- Flow 1:

Average throughput: 84.77 Mbit/s

95th percentile per-packet one-way delay: 89.036 ms

Loss rate: 0.63%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-05-25 03:55:18

End at: 2018-05-25 03:55:48

Local clock offset: -1.914 ms

Remote clock offset: 7.078 ms

Below is generated by plot.py at 2018-05-25 04:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.31 Mbit/s

95th percentile per-packet one-way delay: 91.071 ms

Loss rate: 0.98%

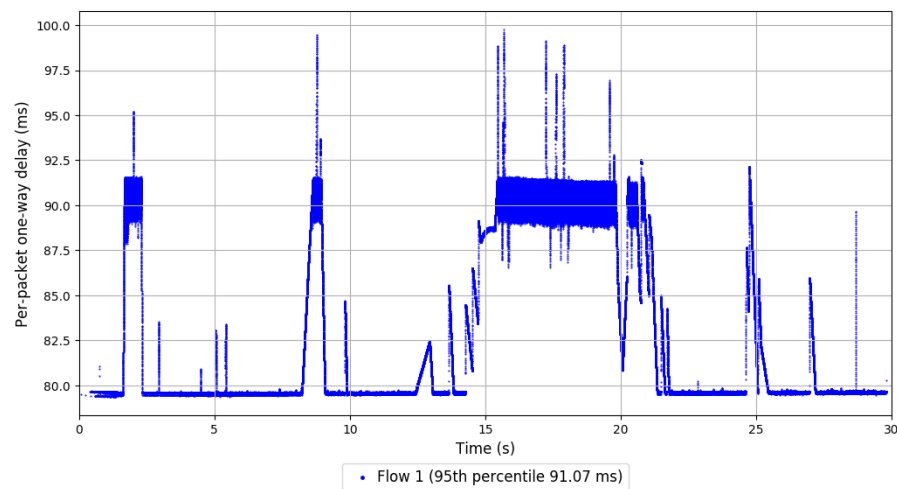
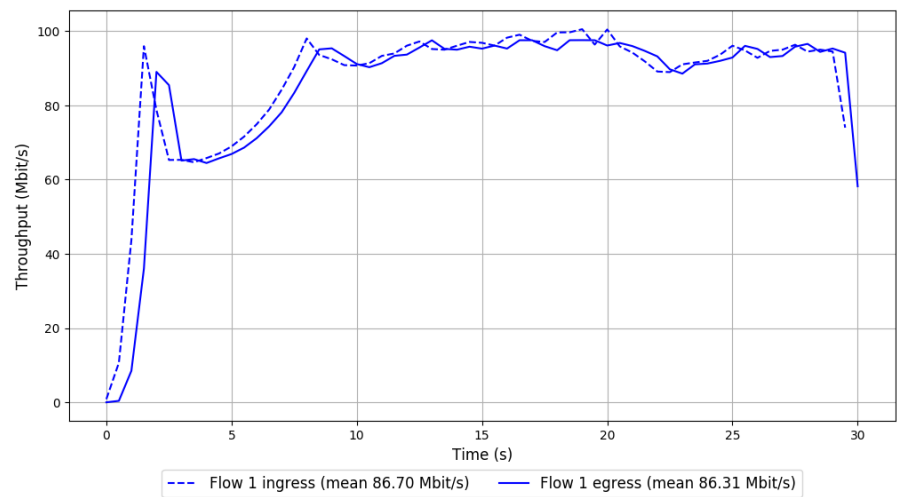
-- Flow 1:

Average throughput: 86.31 Mbit/s

95th percentile per-packet one-way delay: 91.071 ms

Loss rate: 0.98%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-05-25 04:13:51

End at: 2018-05-25 04:14:21

Local clock offset: -3.071 ms

Remote clock offset: 7.974 ms

Below is generated by plot.py at 2018-05-25 04:39:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.58 Mbit/s

95th percentile per-packet one-way delay: 94.625 ms

Loss rate: 0.62%

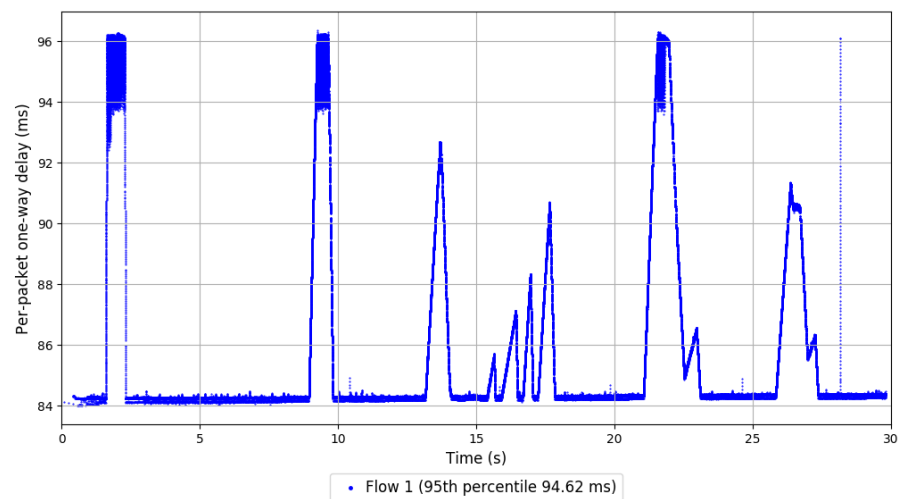
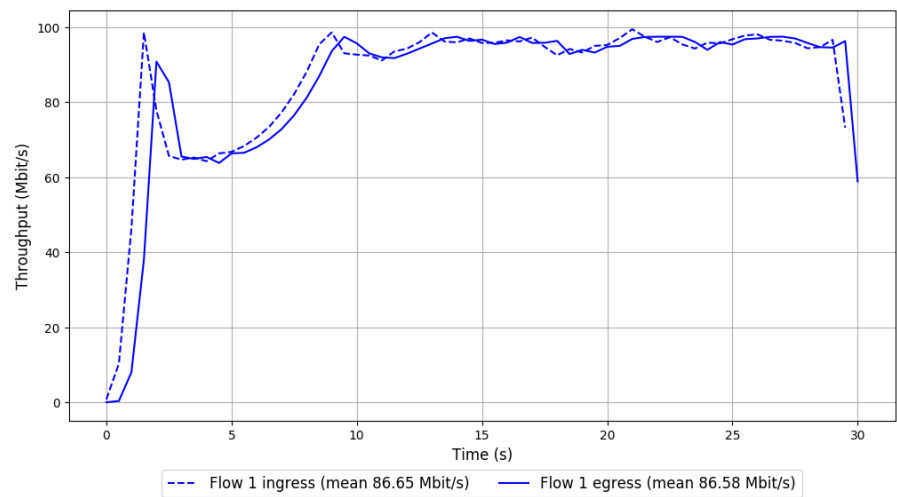
-- Flow 1:

Average throughput: 86.58 Mbit/s

95th percentile per-packet one-way delay: 94.625 ms

Loss rate: 0.62%

Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-05-25 01:41:33

End at: 2018-05-25 01:42:03

Local clock offset: -2.277 ms

Remote clock offset: 8.888 ms

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-05-25 01:59:54

End at: 2018-05-25 02:00:24

Local clock offset: -3.266 ms

Remote clock offset: 3.581 ms

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-05-25 02:18:19

End at: 2018-05-25 02:18:49

Local clock offset: -6.889 ms

Remote clock offset: 3.381 ms

Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-05-25 02:36:47

End at: 2018-05-25 02:37:17

Local clock offset: -2.871 ms

Remote clock offset: 7.523 ms

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-05-25 02:55:14

End at: 2018-05-25 02:55:44

Local clock offset: -0.834 ms

Remote clock offset: 7.457 ms

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-05-25 03:13:42

End at: 2018-05-25 03:14:12

Local clock offset: -1.492 ms

Remote clock offset: 3.653 ms

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-05-25 03:32:10

End at: 2018-05-25 03:32:40

Local clock offset: -1.704 ms

Remote clock offset: 8.403 ms

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-05-25 03:50:39

End at: 2018-05-25 03:51:09

Local clock offset: -1.89 ms

Remote clock offset: 3.965 ms

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-05-25 04:09:12

End at: 2018-05-25 04:09:42

Local clock offset: -2.913 ms

Remote clock offset: 6.574 ms

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-05-25 04:27:41

End at: 2018-05-25 04:28:11

Local clock offset: -3.104 ms

Remote clock offset: 11.313 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of QUIC Cubic

Start at: 2018-05-25 01:35:45

End at: 2018-05-25 01:36:15

Local clock offset: -3.241 ms

Remote clock offset: 8.874 ms

Below is generated by plot.py at 2018-05-25 04:39:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.46 Mbit/s

95th percentile per-packet one-way delay: 91.557 ms

Loss rate: 0.65%

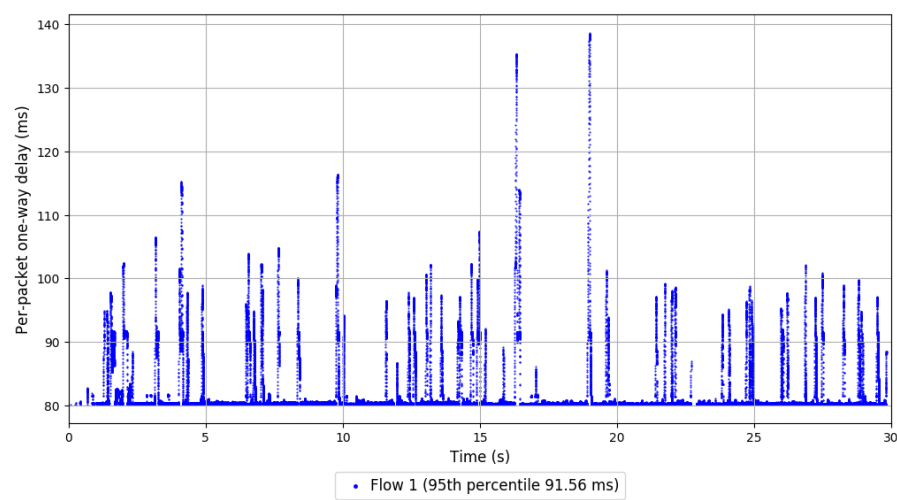
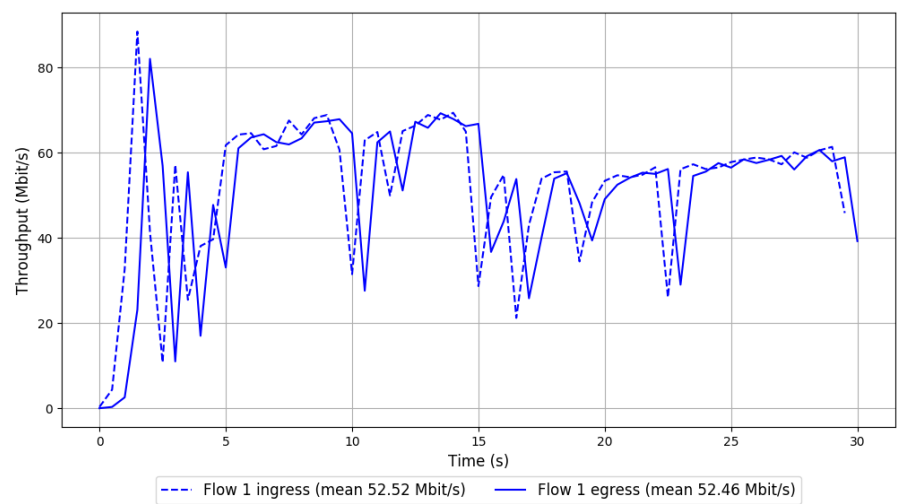
-- Flow 1:

Average throughput: 52.46 Mbit/s

95th percentile per-packet one-way delay: 91.557 ms

Loss rate: 0.65%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-05-25 01:54:08

End at: 2018-05-25 01:54:38

Local clock offset: -1.012 ms

Remote clock offset: 4.422 ms

Below is generated by plot.py at 2018-05-25 04:39:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.09 Mbit/s

95th percentile per-packet one-way delay: 92.793 ms

Loss rate: 0.79%

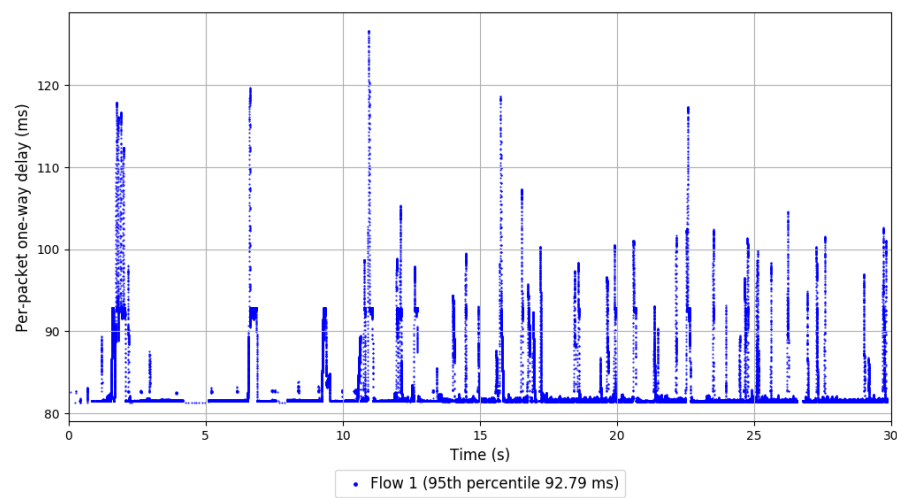
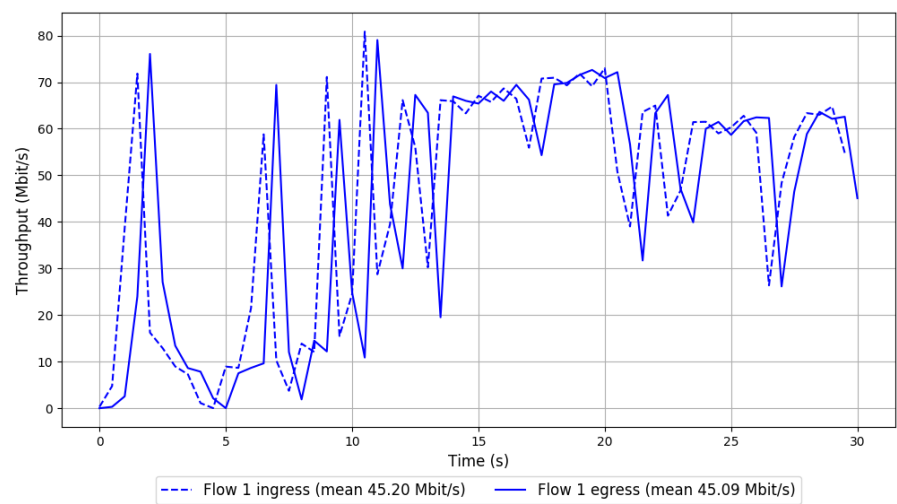
-- Flow 1:

Average throughput: 45.09 Mbit/s

95th percentile per-packet one-way delay: 92.793 ms

Loss rate: 0.79%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-05-25 02:12:29

End at: 2018-05-25 02:12:59

Local clock offset: -6.276 ms

Remote clock offset: 8.057 ms

Below is generated by plot.py at 2018-05-25 04:39:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.79 Mbit/s

95th percentile per-packet one-way delay: 88.484 ms

Loss rate: 0.81%

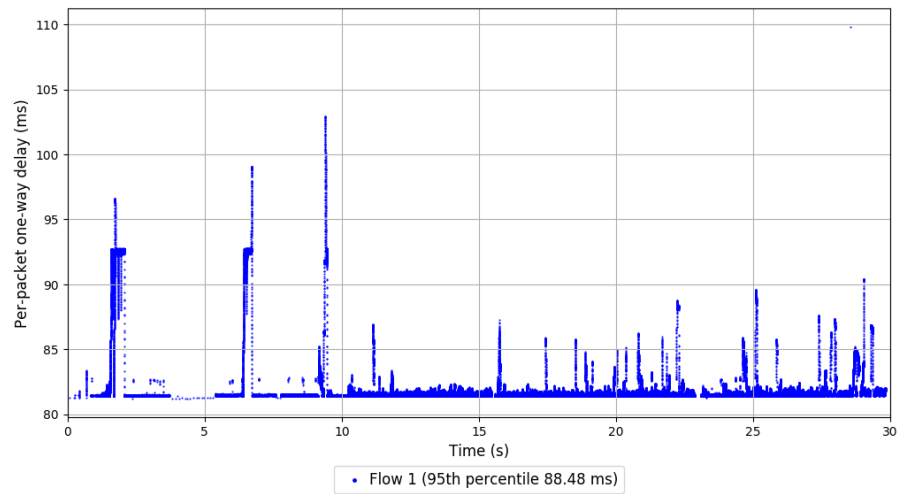
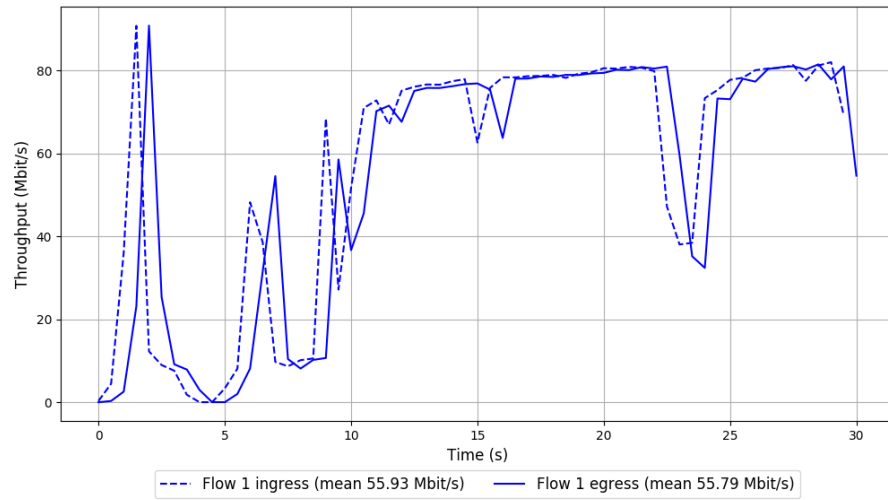
-- Flow 1:

Average throughput: 55.79 Mbit/s

95th percentile per-packet one-way delay: 88.484 ms

Loss rate: 0.81%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-05-25 02:30:58

End at: 2018-05-25 02:31:28

Local clock offset: -4.673 ms

Remote clock offset: 7.73 ms

Below is generated by plot.py at 2018-05-25 04:39:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.82 Mbit/s

95th percentile per-packet one-way delay: 89.212 ms

Loss rate: 0.88%

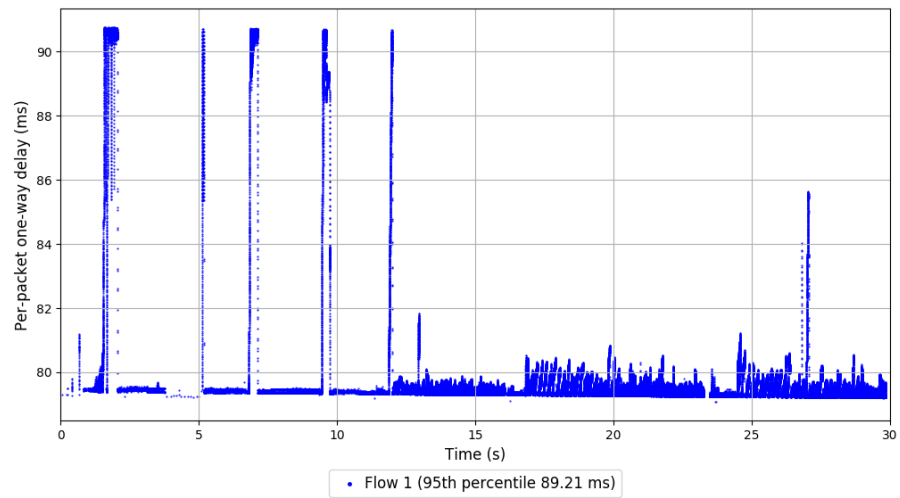
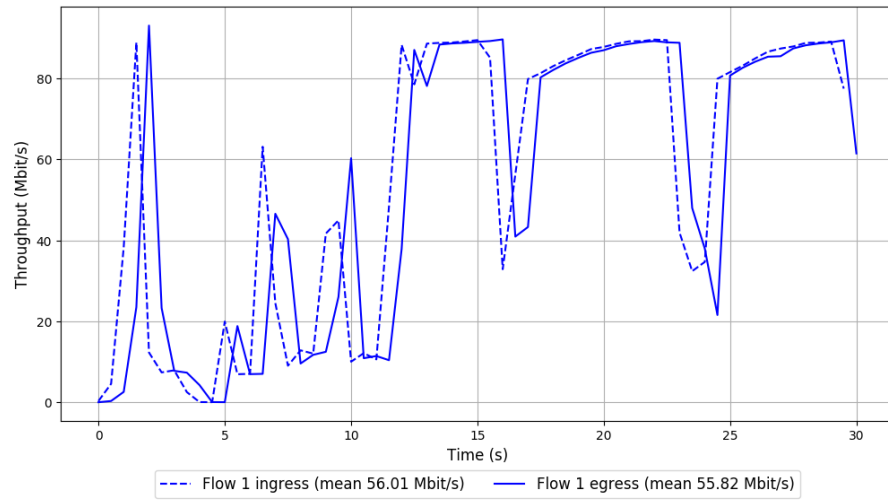
-- Flow 1:

Average throughput: 55.82 Mbit/s

95th percentile per-packet one-way delay: 89.212 ms

Loss rate: 0.88%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-05-25 02:49:25

End at: 2018-05-25 02:49:55

Local clock offset: -1.176 ms

Remote clock offset: 3.581 ms

Below is generated by plot.py at 2018-05-25 04:39:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.58 Mbit/s

95th percentile per-packet one-way delay: 94.144 ms

Loss rate: 0.77%

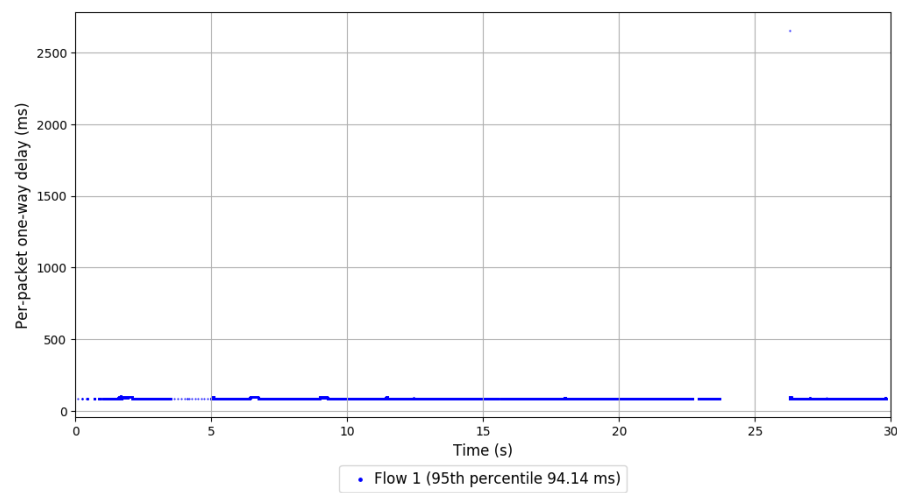
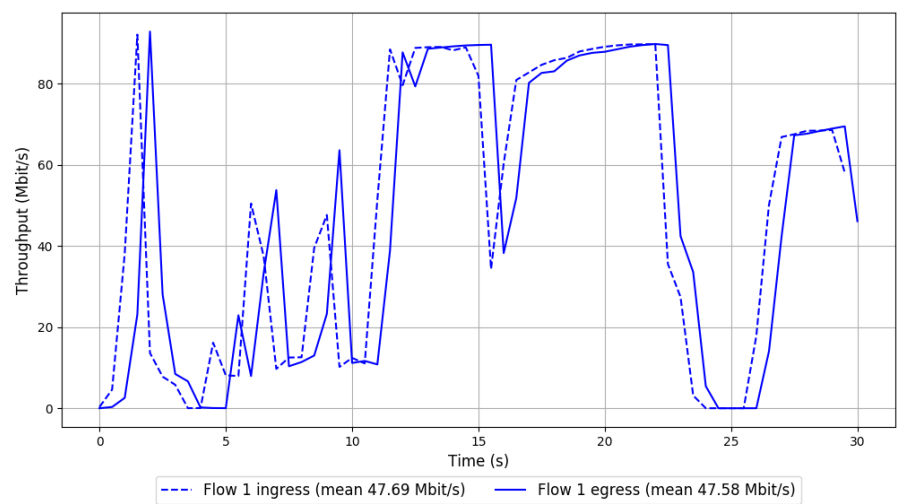
-- Flow 1:

Average throughput: 47.58 Mbit/s

95th percentile per-packet one-way delay: 94.144 ms

Loss rate: 0.77%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-05-25 03:07:52

End at: 2018-05-25 03:08:22

Local clock offset: -1.475 ms

Remote clock offset: 3.629 ms

Below is generated by plot.py at 2018-05-25 04:39:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.81 Mbit/s

95th percentile per-packet one-way delay: 92.084 ms

Loss rate: 0.86%

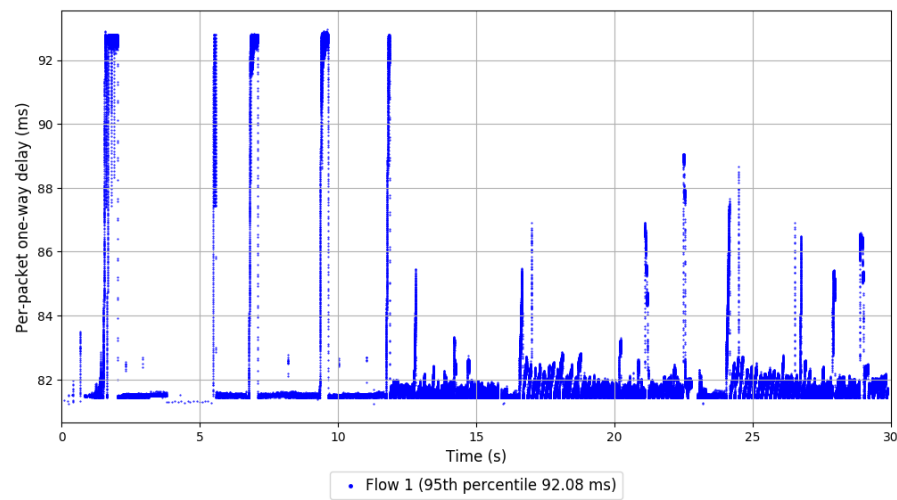
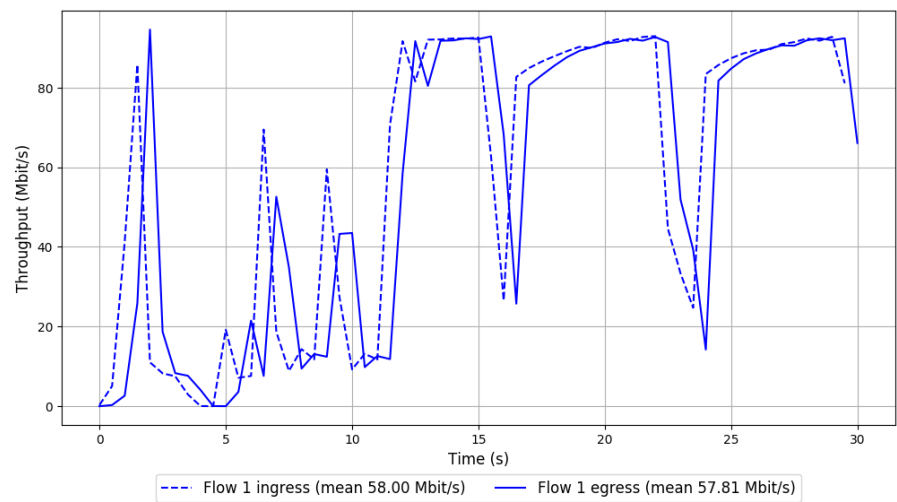
-- Flow 1:

Average throughput: 57.81 Mbit/s

95th percentile per-packet one-way delay: 92.084 ms

Loss rate: 0.86%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-05-25 03:26:21

End at: 2018-05-25 03:26:51

Local clock offset: -1.414 ms

Remote clock offset: 6.563 ms

Below is generated by plot.py at 2018-05-25 04:39:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.71 Mbit/s

95th percentile per-packet one-way delay: 90.796 ms

Loss rate: 0.82%

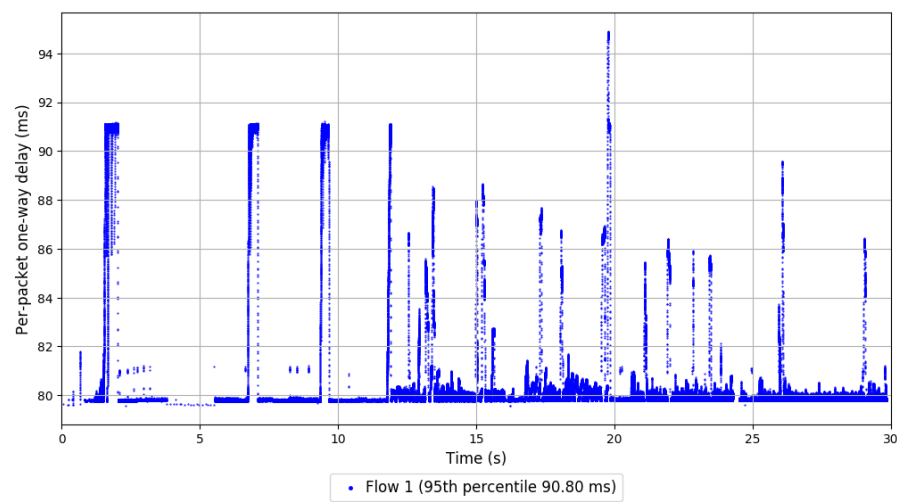
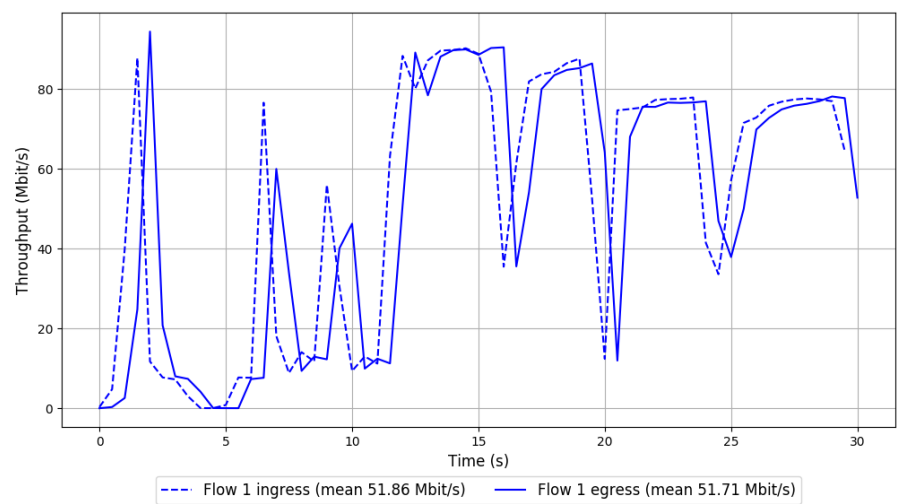
-- Flow 1:

Average throughput: 51.71 Mbit/s

95th percentile per-packet one-way delay: 90.796 ms

Loss rate: 0.82%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-05-25 03:44:49

End at: 2018-05-25 03:45:19

Local clock offset: -1.853 ms

Remote clock offset: 7.78 ms

Below is generated by plot.py at 2018-05-25 04:39:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.51 Mbit/s

95th percentile per-packet one-way delay: 90.126 ms

Loss rate: 0.85%

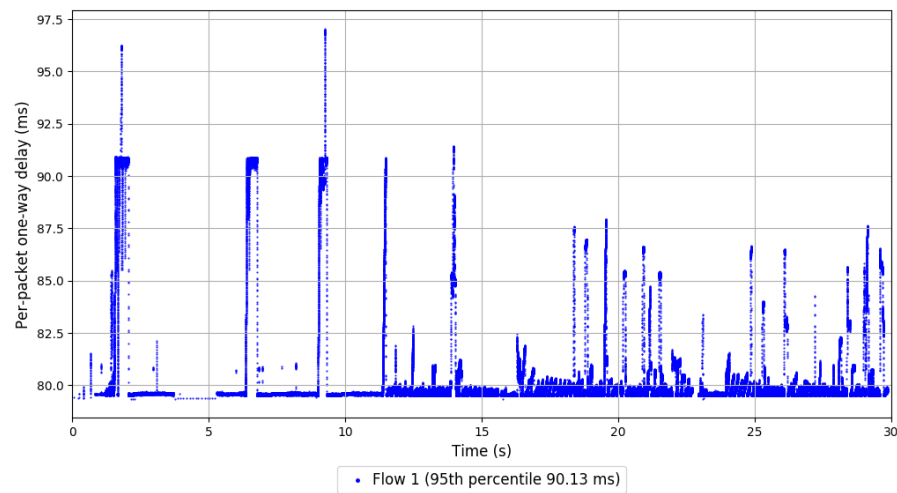
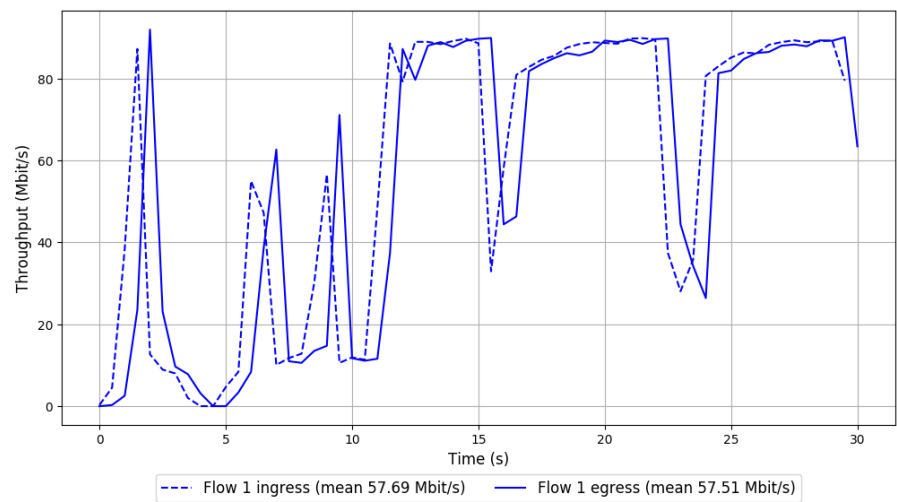
-- Flow 1:

Average throughput: 57.51 Mbit/s

95th percentile per-packet one-way delay: 90.126 ms

Loss rate: 0.85%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-05-25 04:03:23

End at: 2018-05-25 04:03:53

Local clock offset: -2.647 ms

Remote clock offset: 3.285 ms

Below is generated by plot.py at 2018-05-25 04:40:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.51 Mbit/s

95th percentile per-packet one-way delay: 92.841 ms

Loss rate: 0.72%

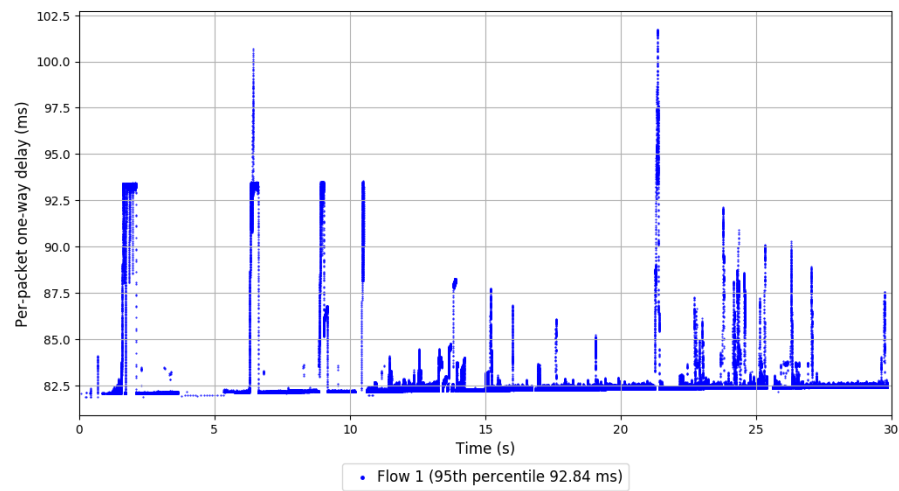
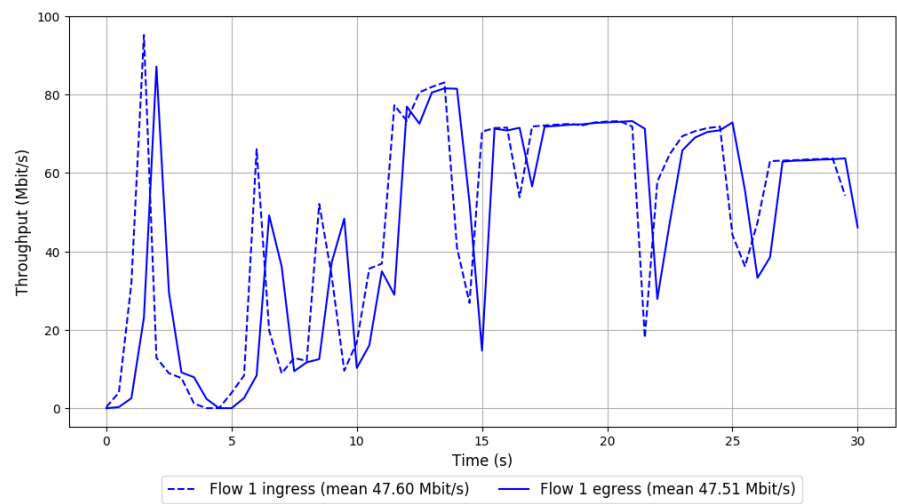
-- Flow 1:

Average throughput: 47.51 Mbit/s

95th percentile per-packet one-way delay: 92.841 ms

Loss rate: 0.72%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-05-25 04:21:51

End at: 2018-05-25 04:22:21

Local clock offset: -3.235 ms

Remote clock offset: 9.816 ms

Below is generated by plot.py at 2018-05-25 04:40:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.50 Mbit/s

95th percentile per-packet one-way delay: 89.220 ms

Loss rate: 0.75%

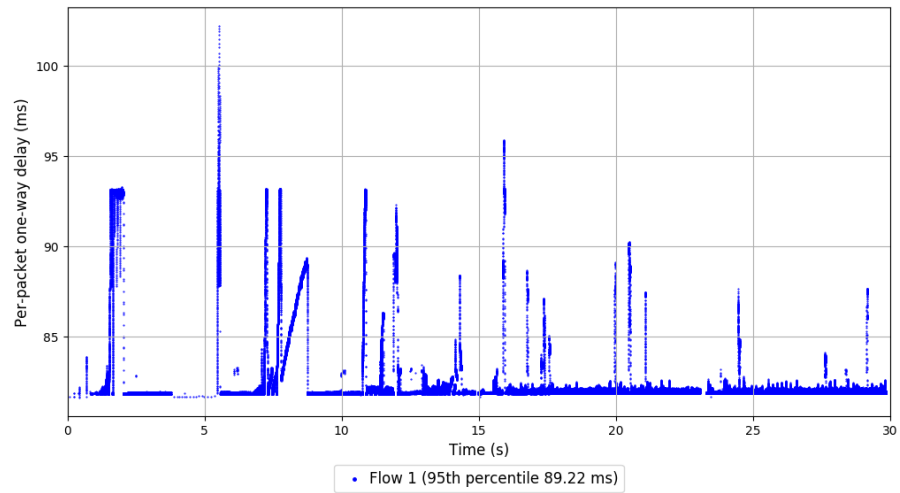
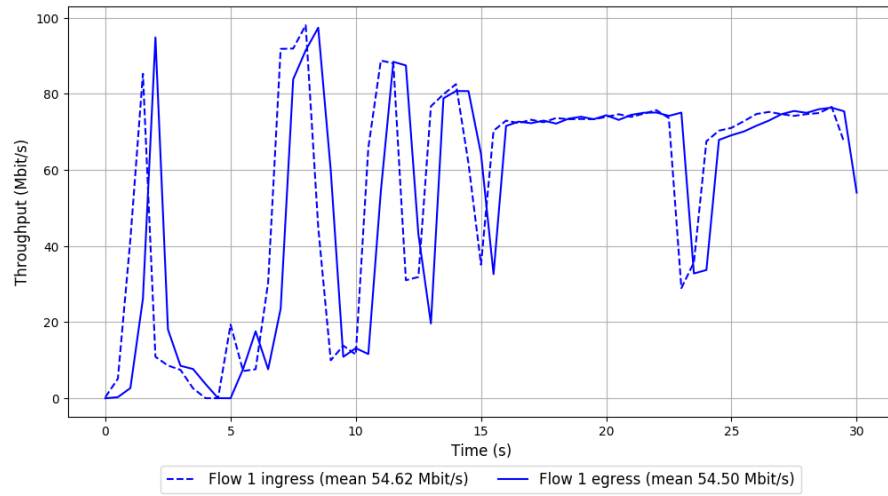
-- Flow 1:

Average throughput: 54.50 Mbit/s

95th percentile per-packet one-way delay: 89.220 ms

Loss rate: 0.75%

Run 10: Report of QUIC Cubic — Data Link

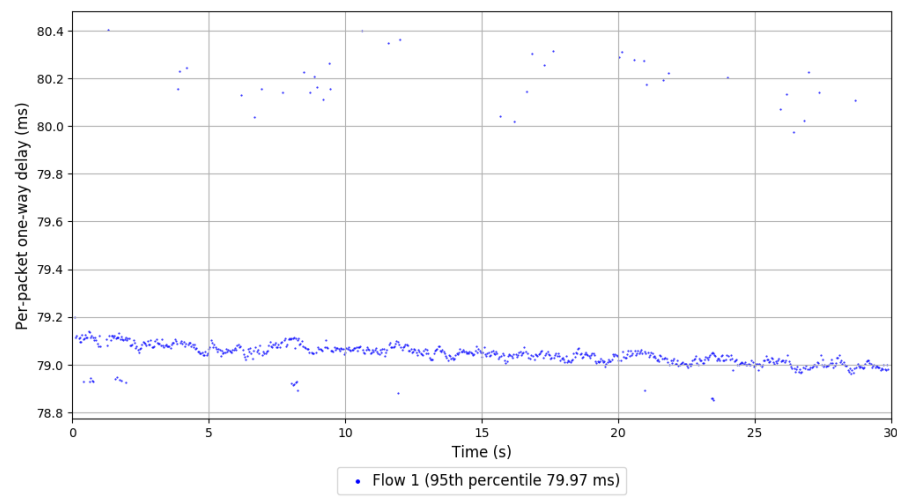
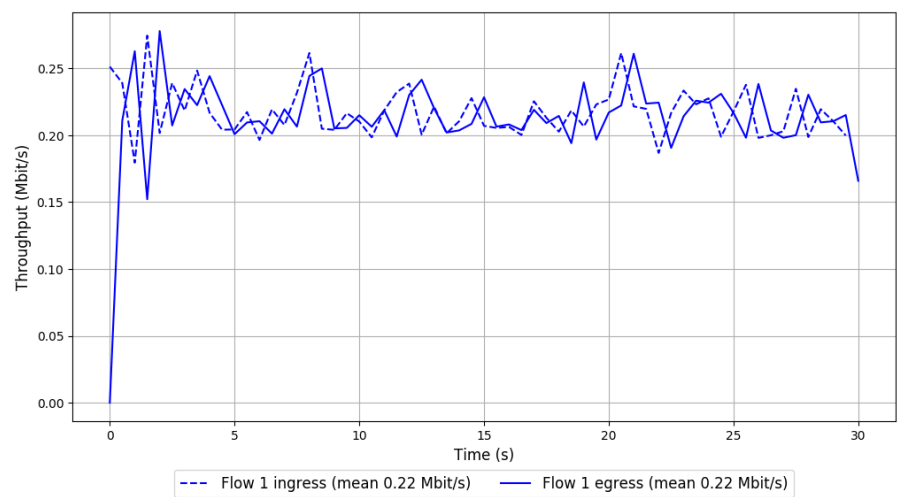


```
Run 1: Statistics of SCReAM

Start at: 2018-05-25 01:34:38
End at: 2018-05-25 01:35:08
Local clock offset: -3.548 ms
Remote clock offset: 8.022 ms

# Below is generated by plot.py at 2018-05-25 04:40:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.974 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.974 ms
Loss rate: 0.51%
```

Run 1: Report of SReAM — Data Link

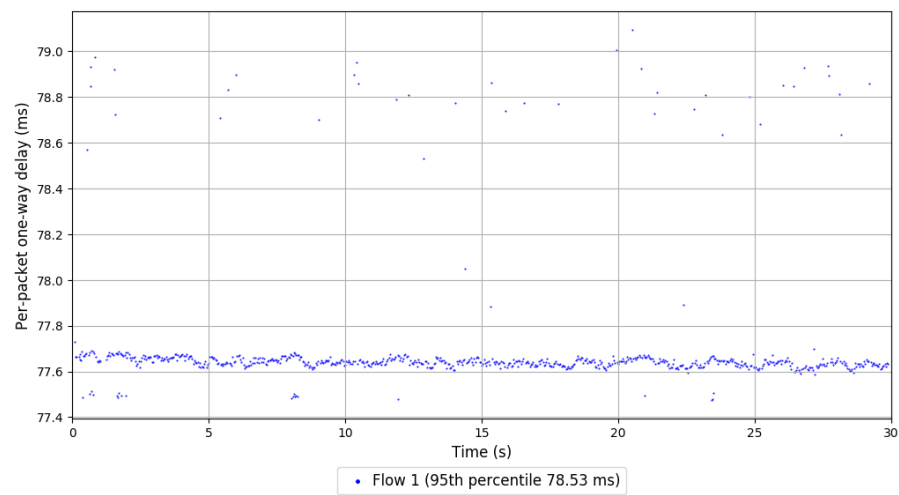
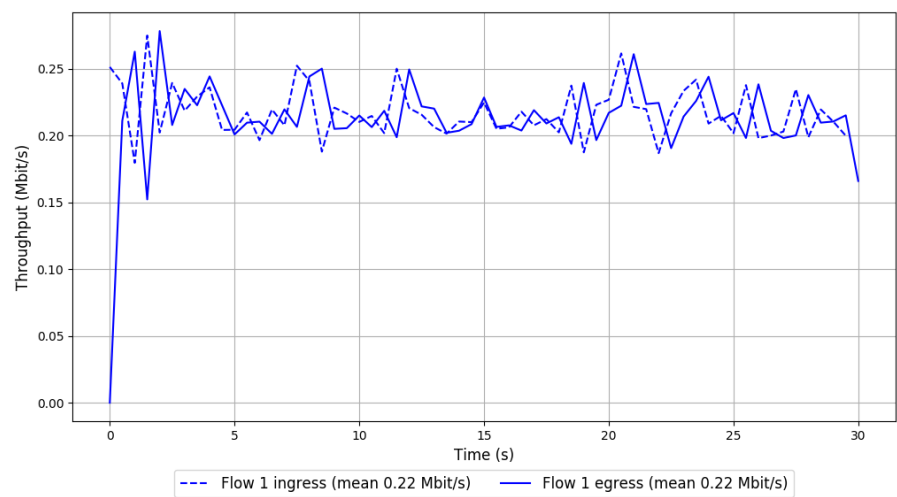


```
Run 2: Statistics of SCReAM

Start at: 2018-05-25 01:53:02
End at: 2018-05-25 01:53:32
Local clock offset: -1.059 ms
Remote clock offset: 8.165 ms

# Below is generated by plot.py at 2018-05-25 04:40:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.532 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.532 ms
Loss rate: 0.51%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-05-25 02:11:23

End at: 2018-05-25 02:11:53

Local clock offset: -6.112 ms

Remote clock offset: 3.563 ms

Below is generated by plot.py at 2018-05-25 04:40:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.796 ms

Loss rate: 0.64%

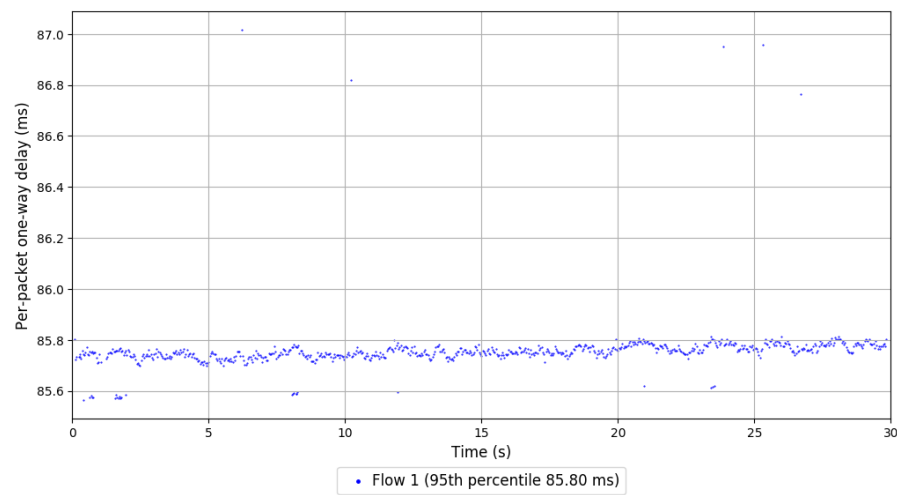
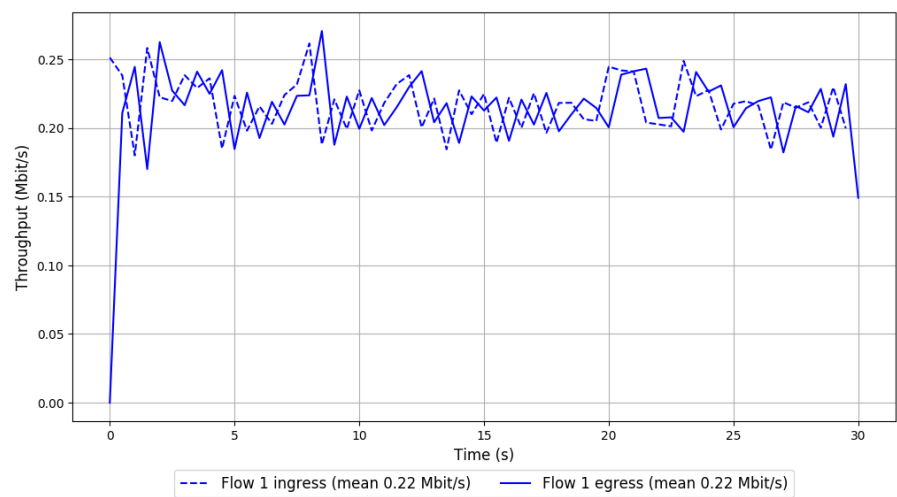
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.796 ms

Loss rate: 0.64%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-05-25 02:29:51

End at: 2018-05-25 02:30:21

Local clock offset: -5.064 ms

Remote clock offset: 6.963 ms

Below is generated by plot.py at 2018-05-25 04:40:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 81.523 ms

Loss rate: 0.64%

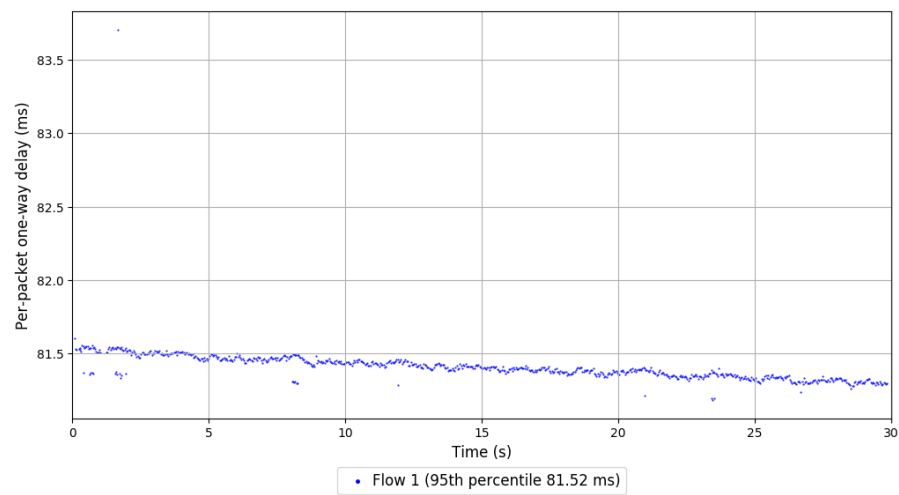
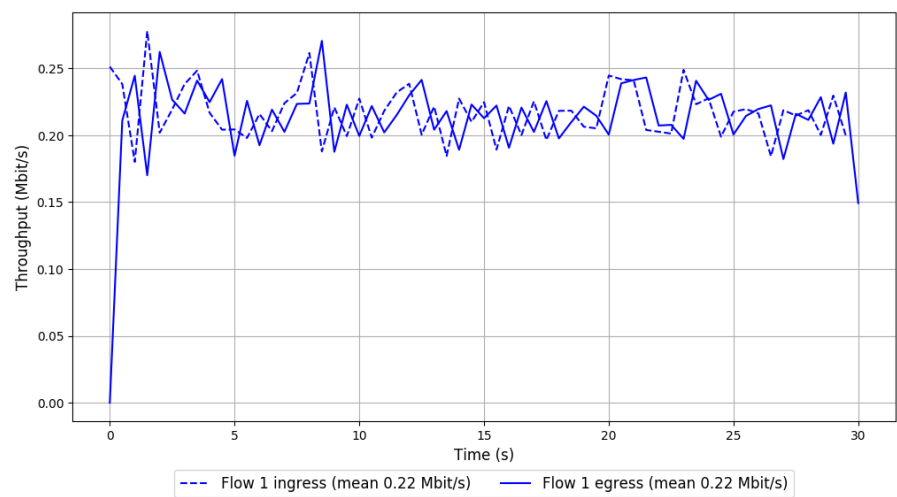
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 81.523 ms

Loss rate: 0.64%

Run 4: Report of SCReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-05-25 02:48:18

End at: 2018-05-25 02:48:48

Local clock offset: -1.286 ms

Remote clock offset: 2.752 ms

Below is generated by plot.py at 2018-05-25 04:40:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.728 ms

Loss rate: 0.64%

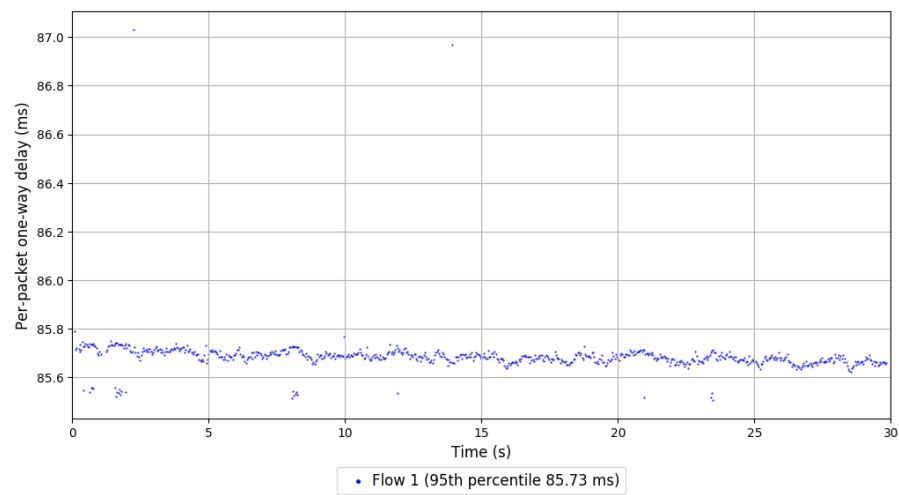
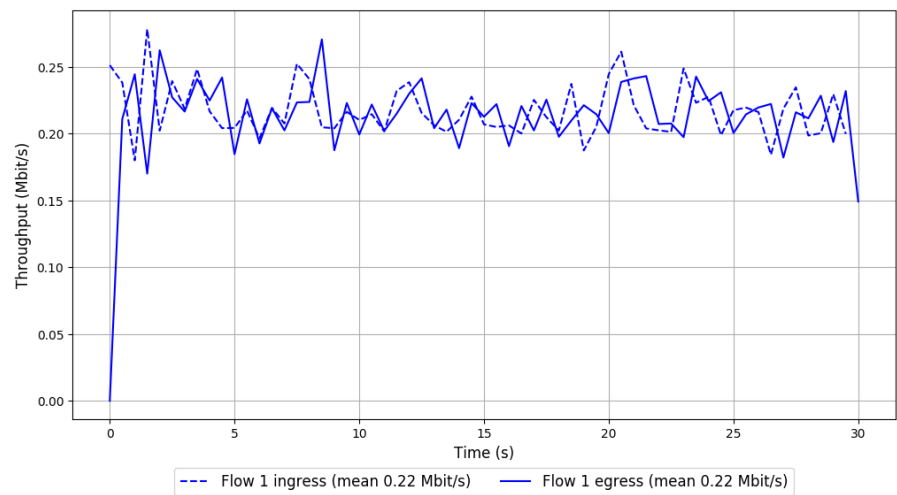
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.728 ms

Loss rate: 0.64%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-05-25 03:06:46

End at: 2018-05-25 03:07:16

Local clock offset: -1.447 ms

Remote clock offset: 3.586 ms

Below is generated by plot.py at 2018-05-25 04:40:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.413 ms

Loss rate: 0.64%

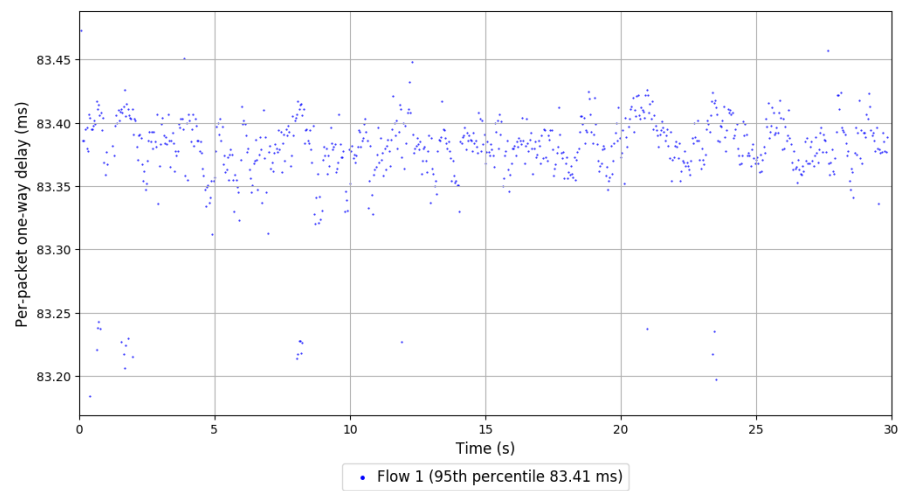
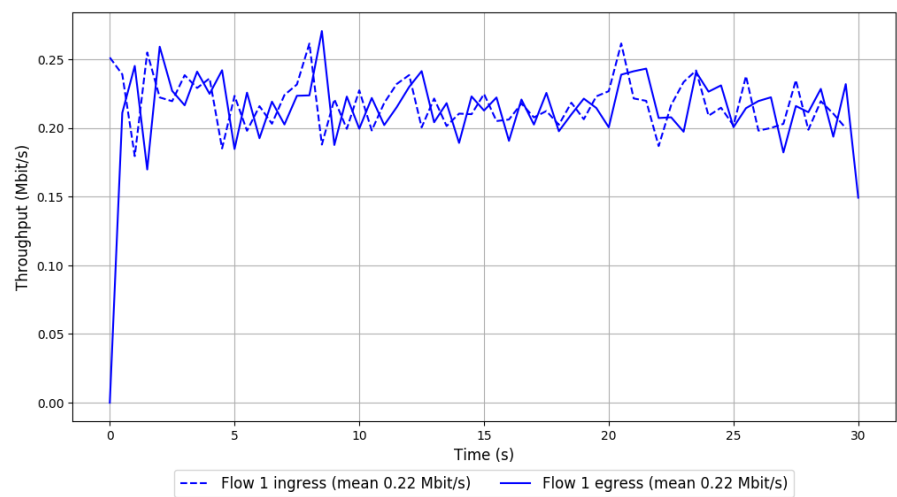
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.413 ms

Loss rate: 0.64%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-05-25 03:25:14

End at: 2018-05-25 03:25:44

Local clock offset: -1.489 ms

Remote clock offset: 6.666 ms

Below is generated by plot.py at 2018-05-25 04:40:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.319 ms

Loss rate: 0.64%

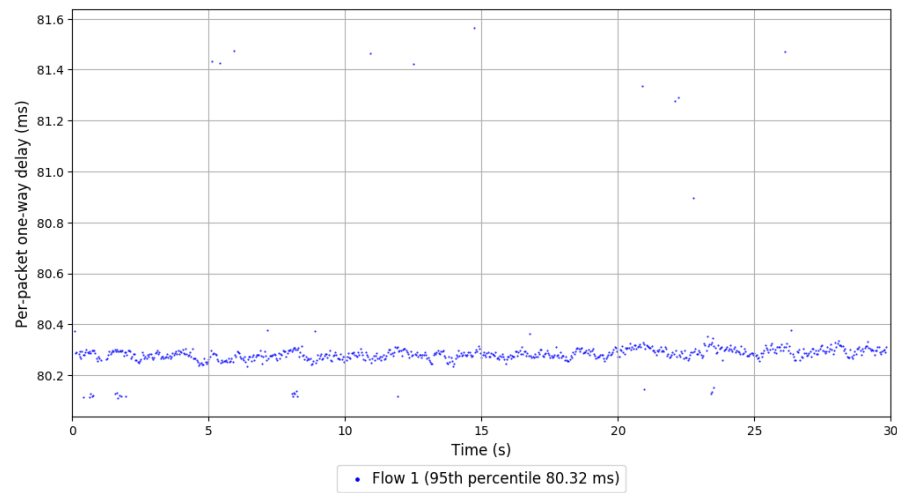
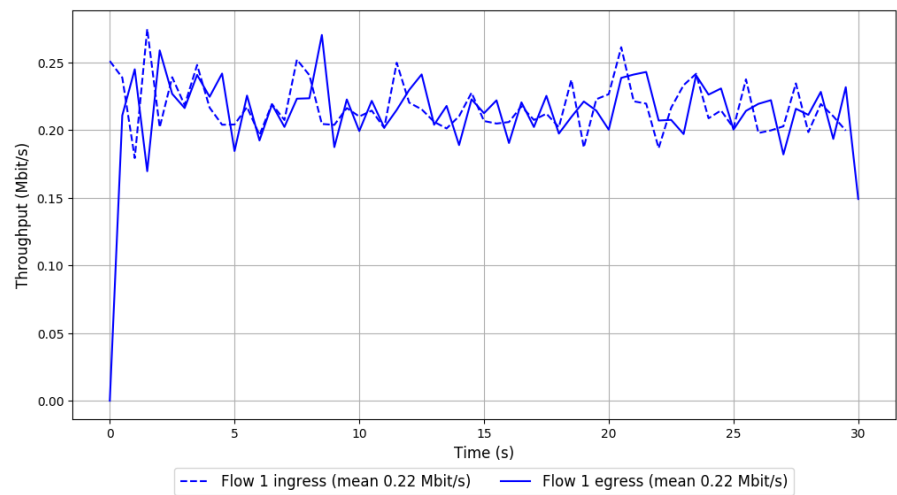
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.319 ms

Loss rate: 0.64%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-05-25 03:43:43

End at: 2018-05-25 03:44:13

Local clock offset: -1.85 ms

Remote clock offset: 4.037 ms

Below is generated by plot.py at 2018-05-25 04:40:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.170 ms

Loss rate: 0.64%

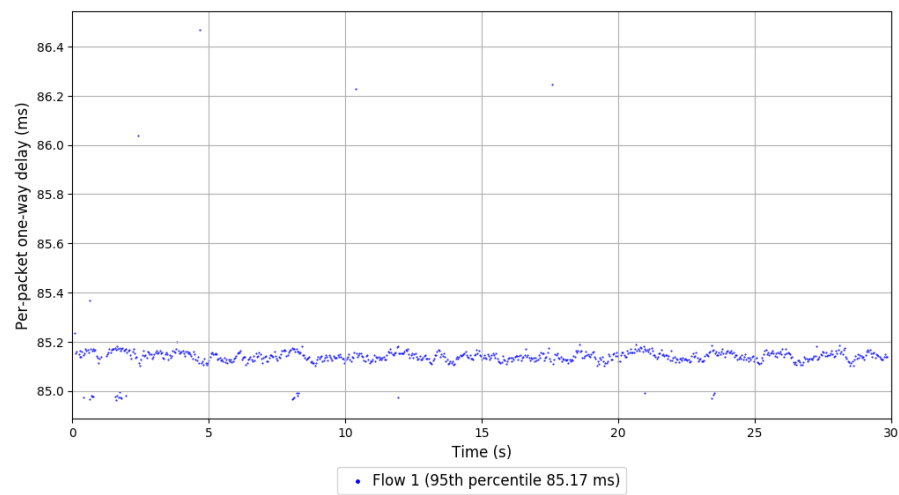
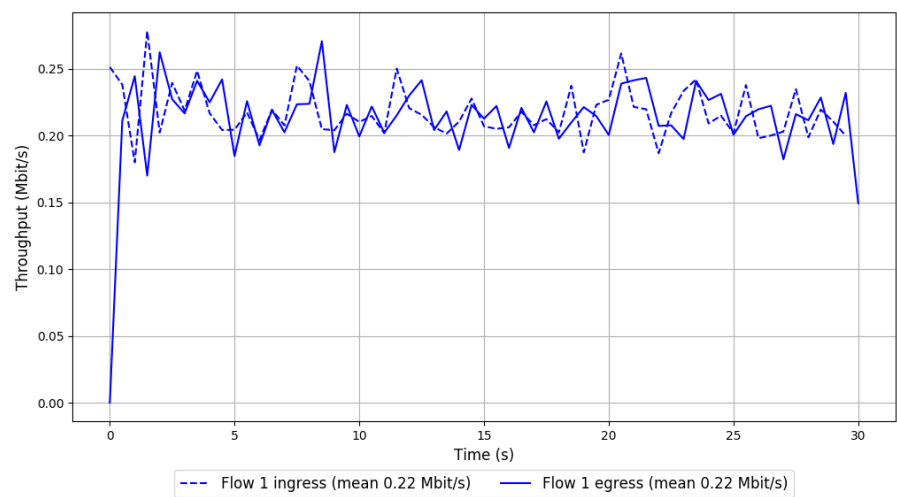
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.170 ms

Loss rate: 0.64%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-05-25 04:02:16

End at: 2018-05-25 04:02:46

Local clock offset: -2.539 ms

Remote clock offset: 7.809 ms

Below is generated by plot.py at 2018-05-25 04:40:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.539 ms

Loss rate: 0.51%

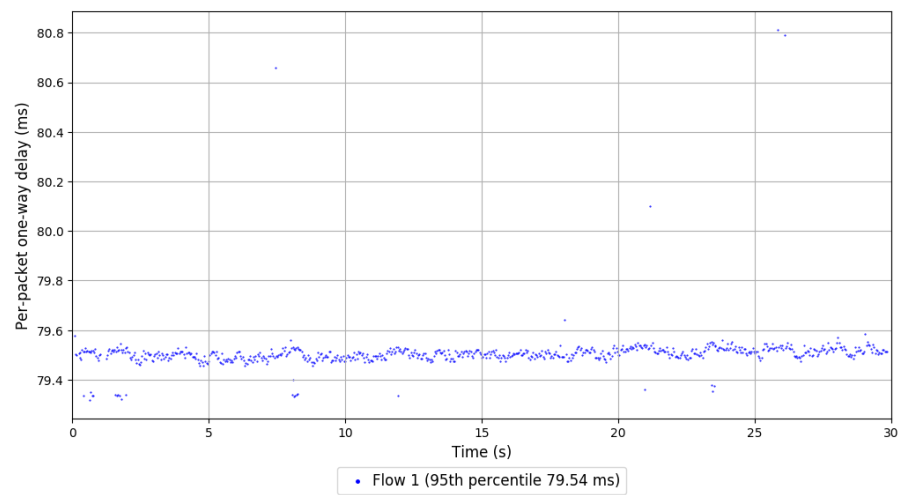
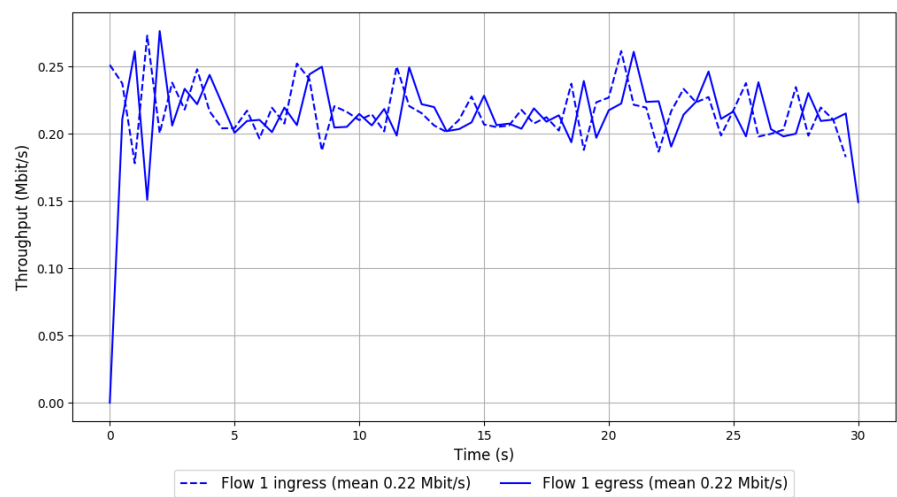
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.539 ms

Loss rate: 0.51%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-05-25 04:20:45

End at: 2018-05-25 04:21:15

Local clock offset: -3.332 ms

Remote clock offset: 9.469 ms

Below is generated by plot.py at 2018-05-25 04:40:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.808 ms

Loss rate: 0.51%

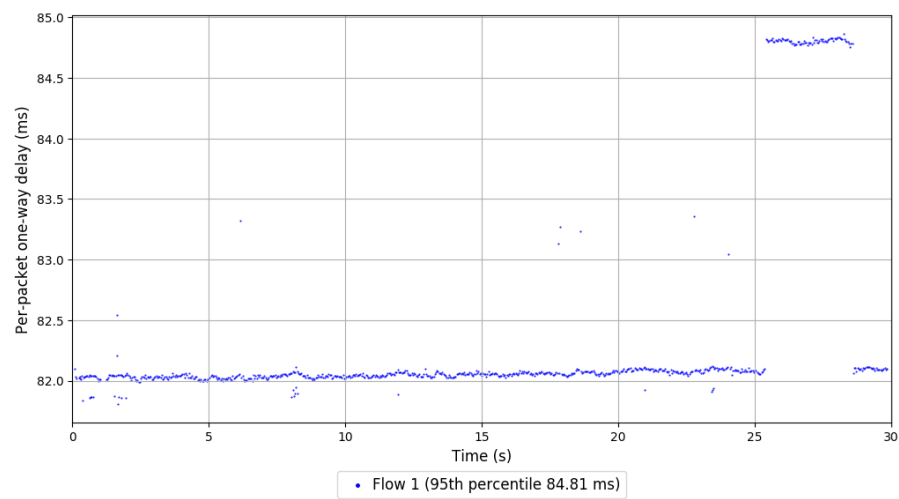
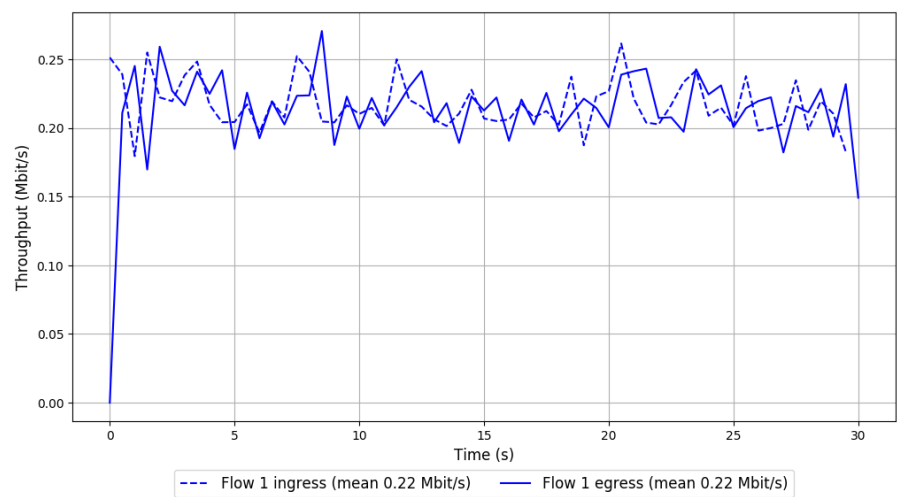
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.808 ms

Loss rate: 0.51%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-05-25 01:39:16

End at: 2018-05-25 01:39:46

Local clock offset: -2.561 ms

Remote clock offset: 7.964 ms

Below is generated by plot.py at 2018-05-25 04:40:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 80.887 ms

Loss rate: 0.40%

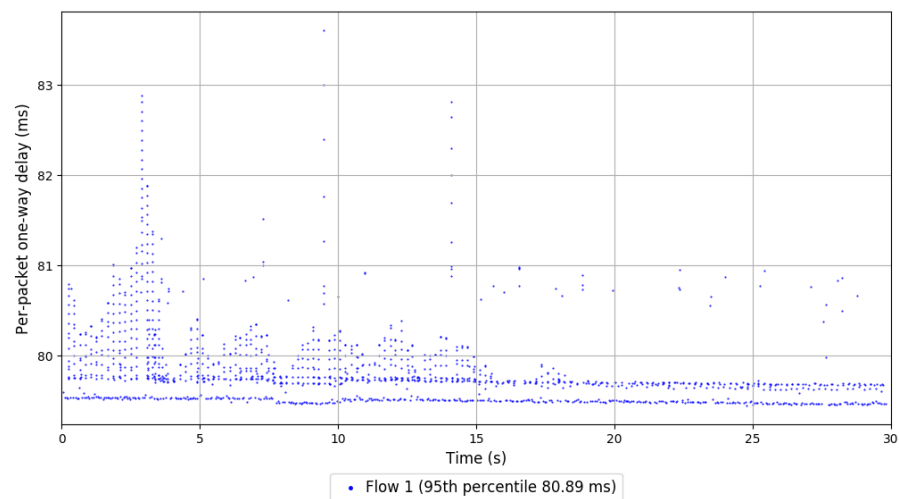
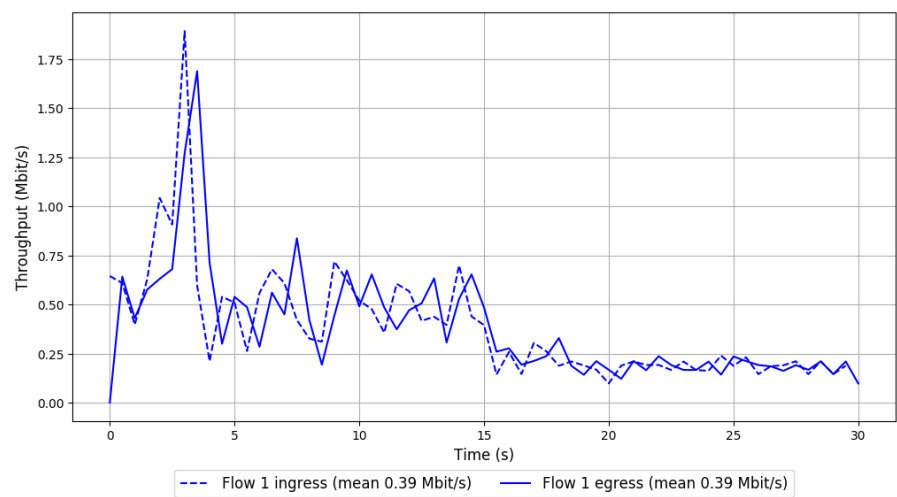
-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 80.887 ms

Loss rate: 0.40%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-05-25 01:57:37

End at: 2018-05-25 01:58:08

Local clock offset: -2.094 ms

Remote clock offset: 8.249 ms

Below is generated by plot.py at 2018-05-25 04:40:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 80.956 ms

Loss rate: 0.45%

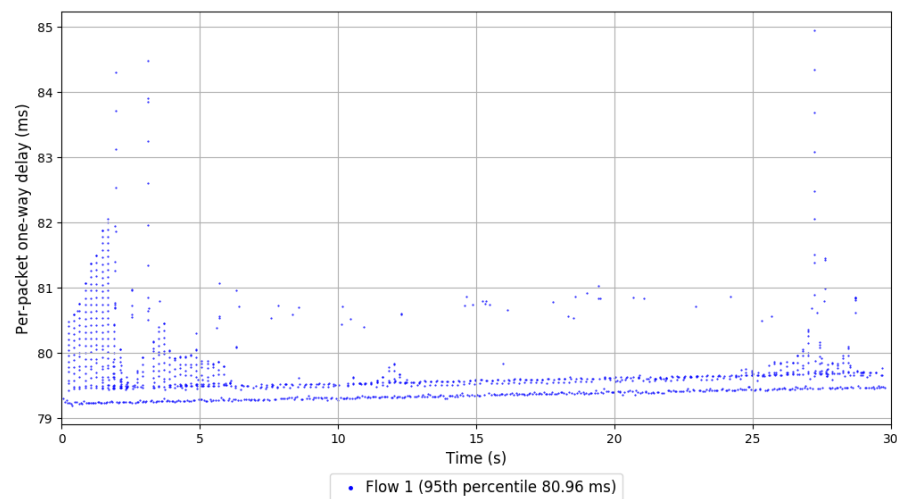
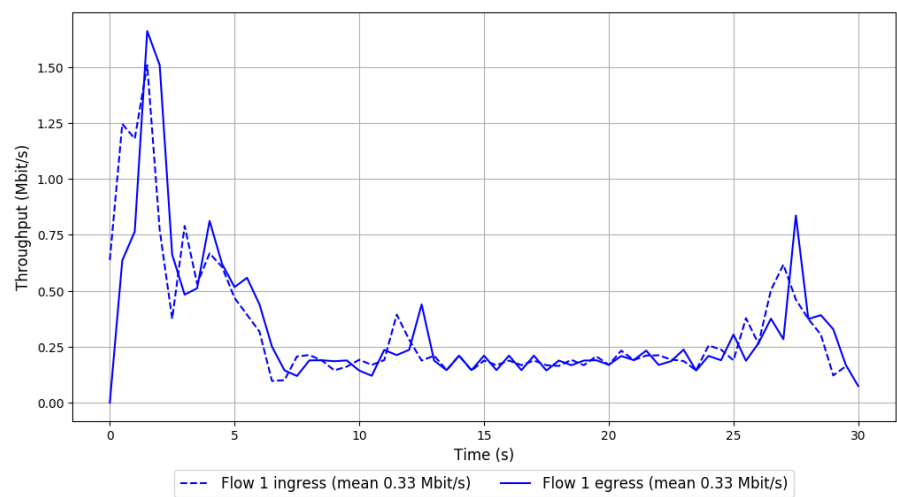
-- Flow 1:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 80.956 ms

Loss rate: 0.45%

Run 2: Report of Sprout — Data Link

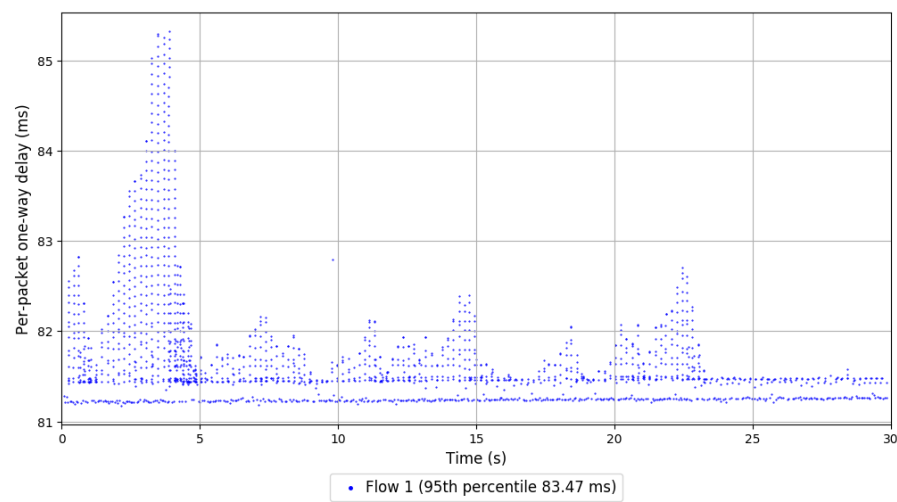
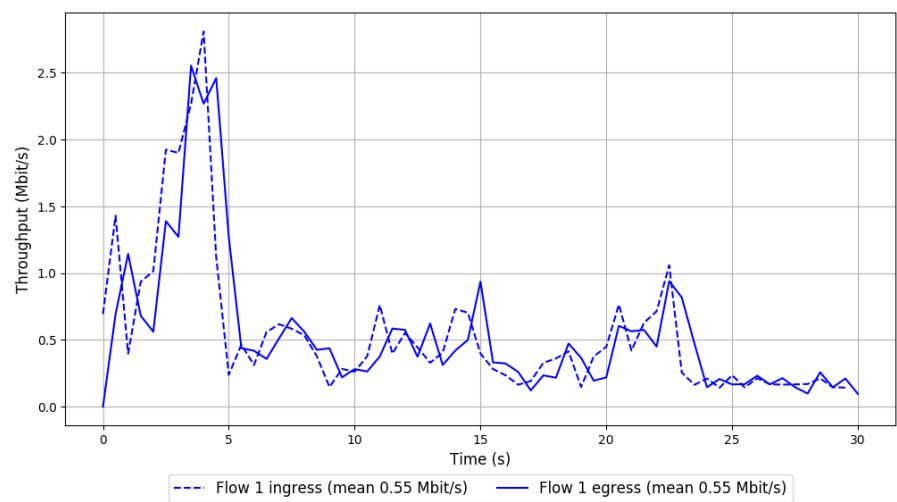


Run 3: Statistics of Sprout

Start at: 2018-05-25 02:16:01
End at: 2018-05-25 02:16:31
Local clock offset: -6.736 ms
Remote clock offset: 4.292 ms

Below is generated by plot.py at 2018-05-25 04:40:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 83.469 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 83.469 ms
Loss rate: 0.15%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-05-25 02:34:29

End at: 2018-05-25 02:34:59

Local clock offset: -3.436 ms

Remote clock offset: 3.769 ms

Below is generated by plot.py at 2018-05-25 04:40:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.85 Mbit/s

95th percentile per-packet one-way delay: 85.060 ms

Loss rate: 0.09%

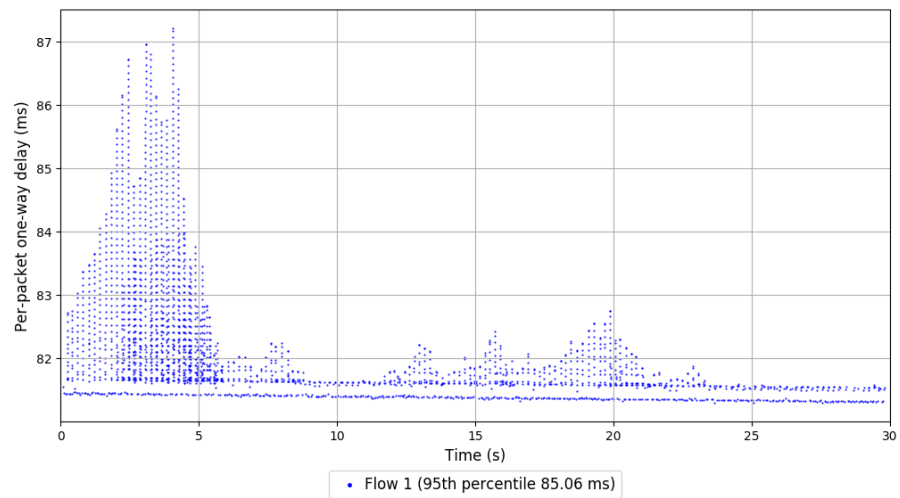
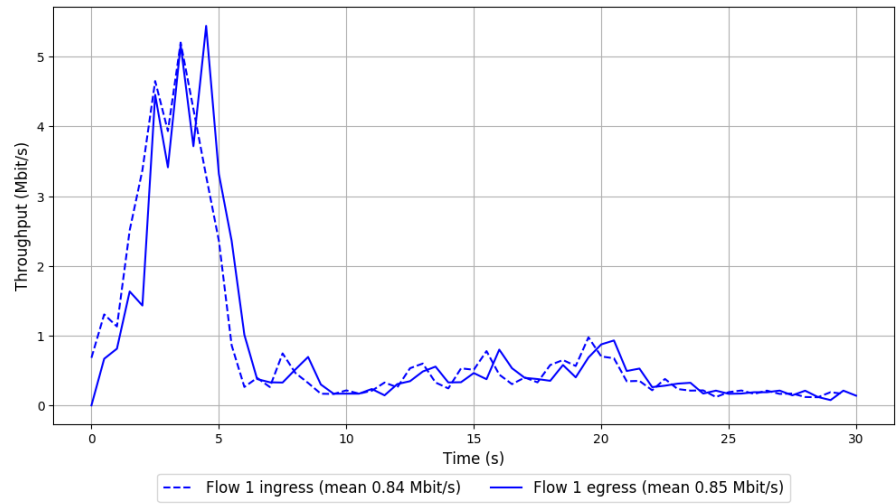
-- Flow 1:

Average throughput: 0.85 Mbit/s

95th percentile per-packet one-way delay: 85.060 ms

Loss rate: 0.09%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-05-25 02:52:56

End at: 2018-05-25 02:53:26

Local clock offset: -0.916 ms

Remote clock offset: 2.691 ms

Below is generated by plot.py at 2018-05-25 04:40:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 86.654 ms

Loss rate: 0.82%

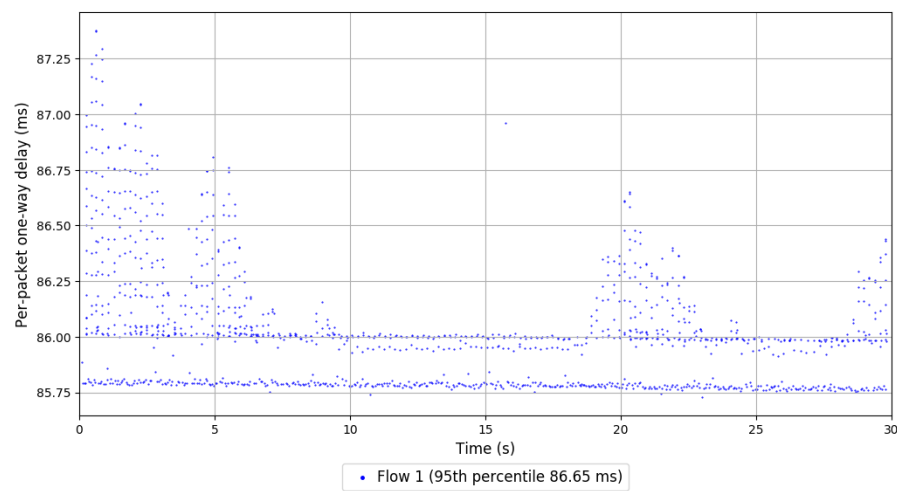
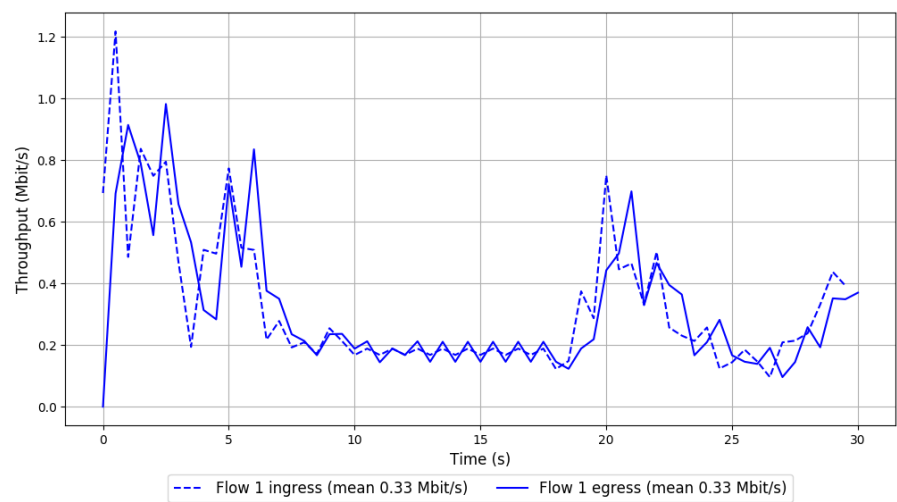
-- Flow 1:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 86.654 ms

Loss rate: 0.82%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-05-25 03:11:24

End at: 2018-05-25 03:11:54

Local clock offset: -1.616 ms

Remote clock offset: 2.832 ms

Below is generated by plot.py at 2018-05-25 04:40:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 82.877 ms

Loss rate: 0.13%

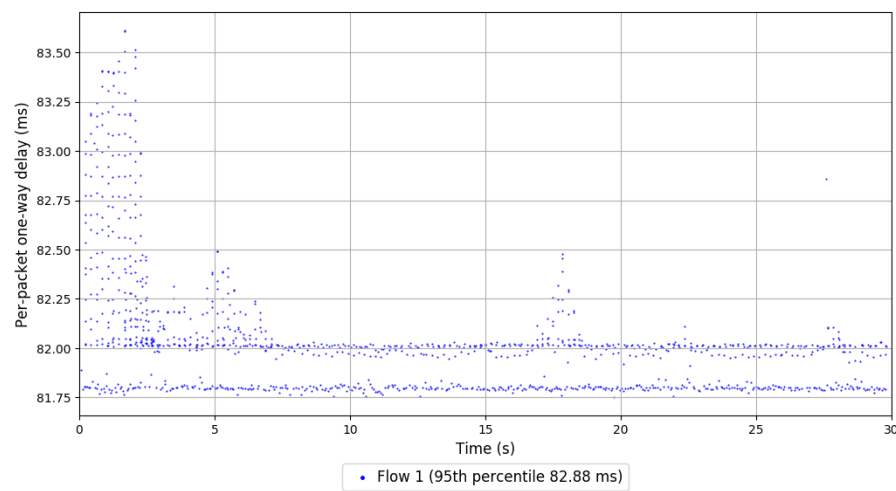
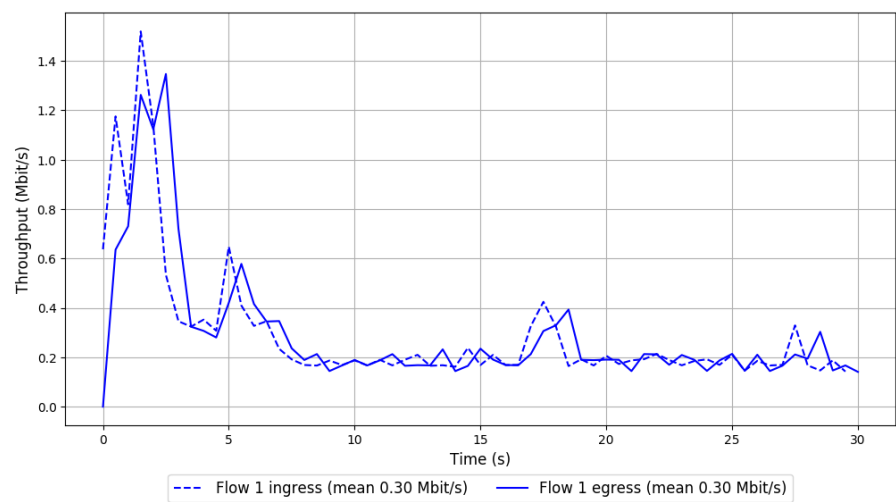
-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 82.877 ms

Loss rate: 0.13%

Run 6: Report of Sprout — Data Link

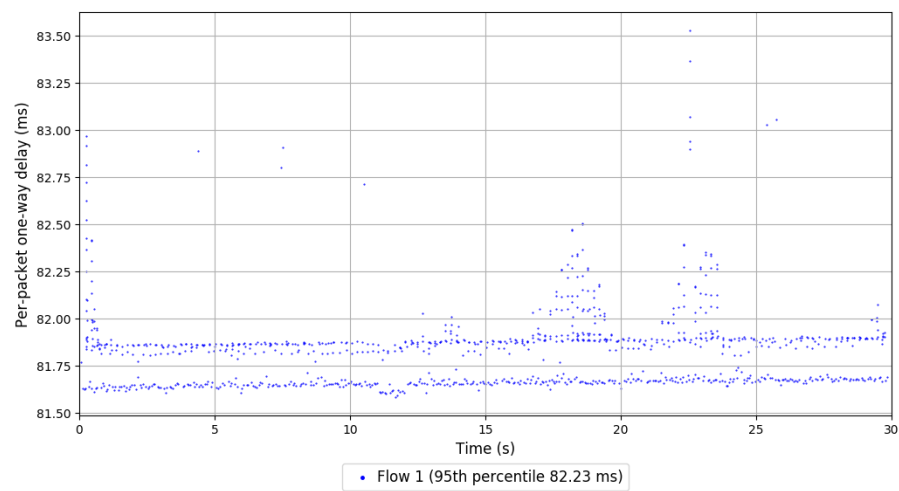
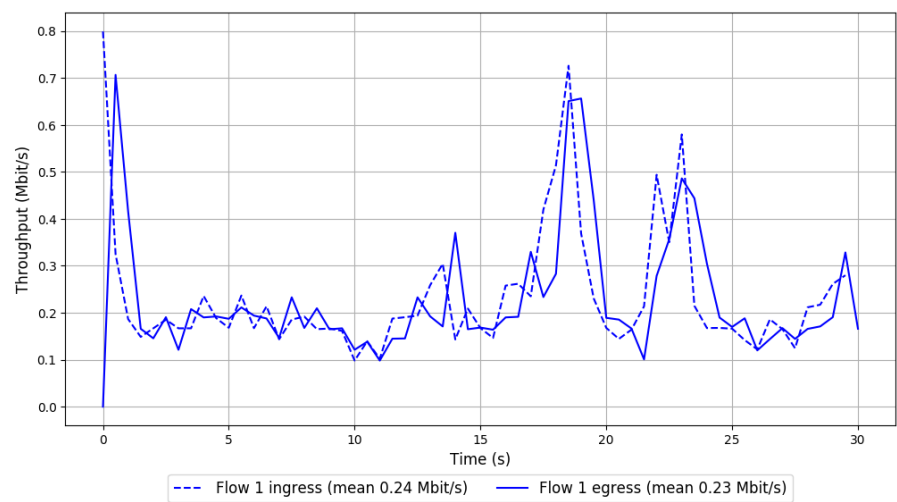


Run 7: Statistics of Sprout

Start at: 2018-05-25 03:29:52
End at: 2018-05-25 03:30:22
Local clock offset: -1.621 ms
Remote clock offset: 6.621 ms

Below is generated by plot.py at 2018-05-25 04:40:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 82.229 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 82.229 ms
Loss rate: 0.82%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-05-25 03:48:21

End at: 2018-05-25 03:48:51

Local clock offset: -1.851 ms

Remote clock offset: 3.108 ms

Below is generated by plot.py at 2018-05-25 04:40:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 87.167 ms

Loss rate: 0.24%

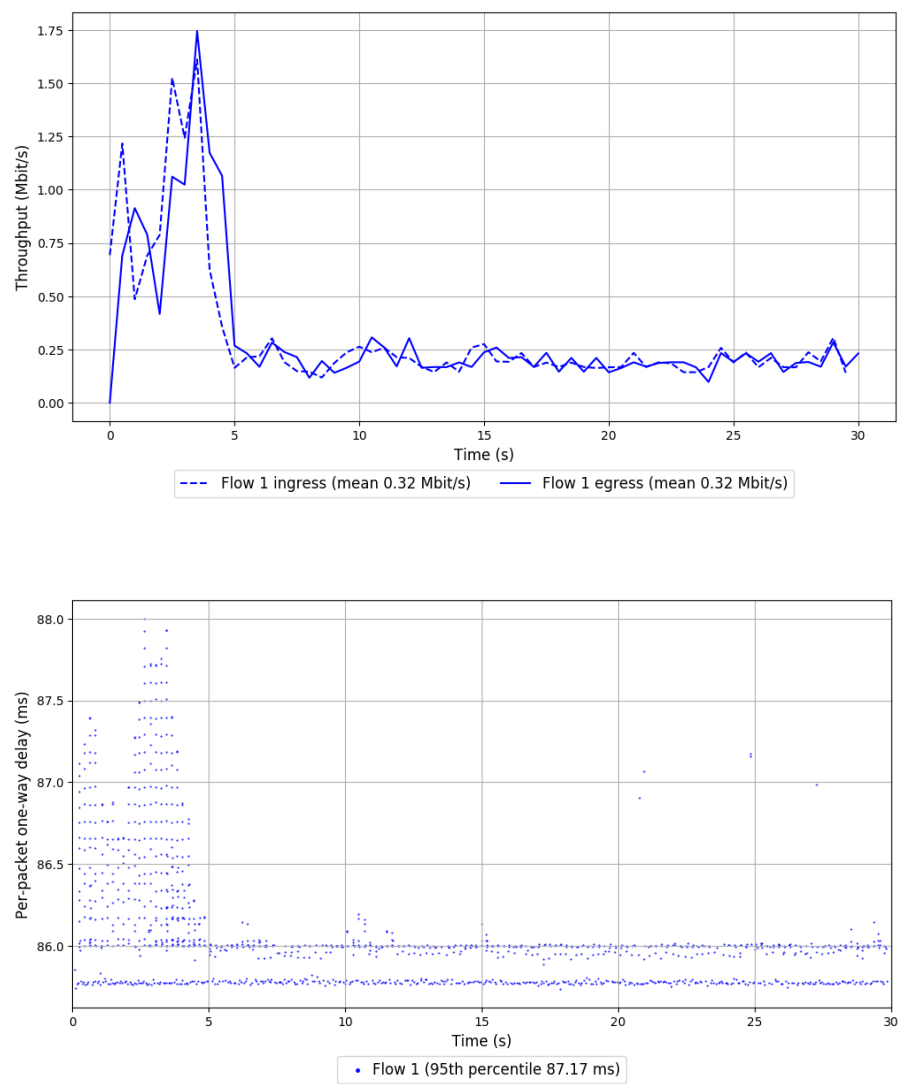
-- Flow 1:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 87.167 ms

Loss rate: 0.24%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-05-25 04:06:54

End at: 2018-05-25 04:07:25

Local clock offset: -2.798 ms

Remote clock offset: 5.39 ms

Below is generated by plot.py at 2018-05-25 04:40:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 84.978 ms

Loss rate: 0.23%

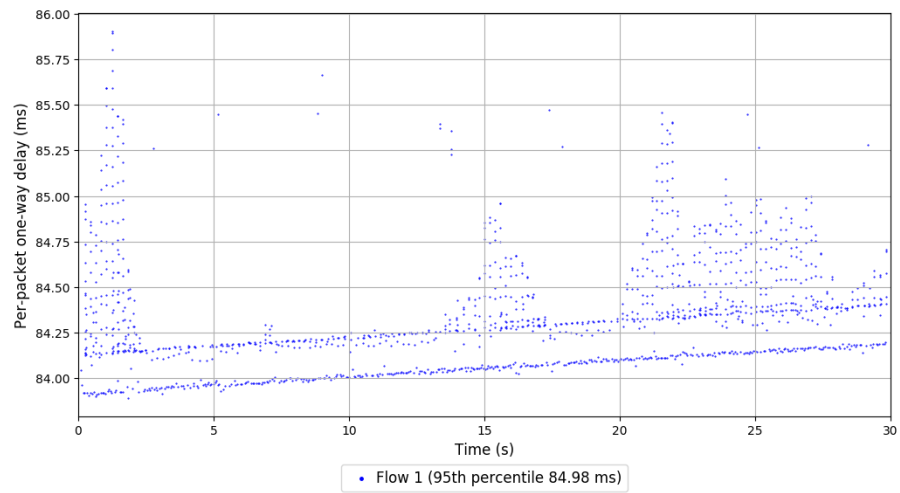
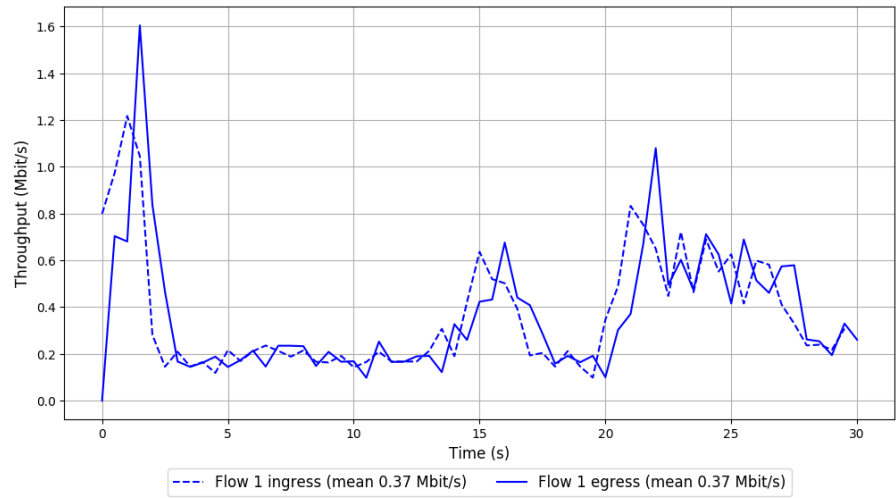
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 84.978 ms

Loss rate: 0.23%

Run 9: Report of Sprout — Data Link

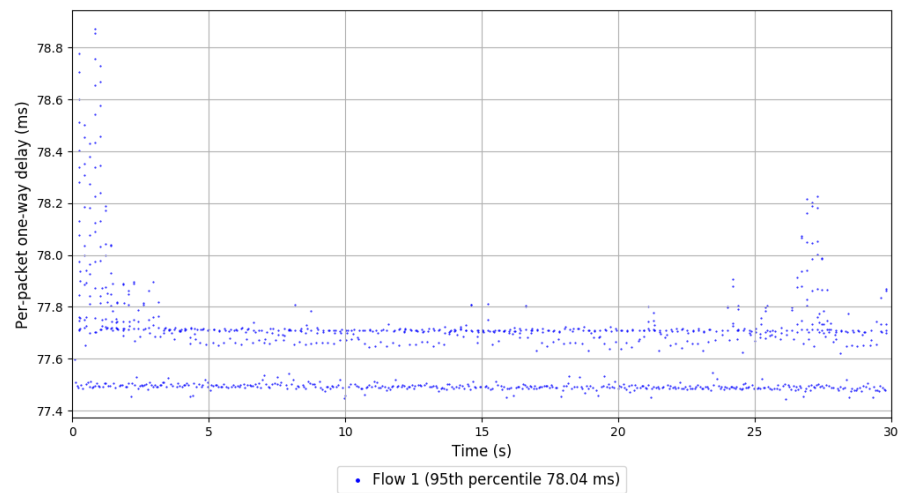
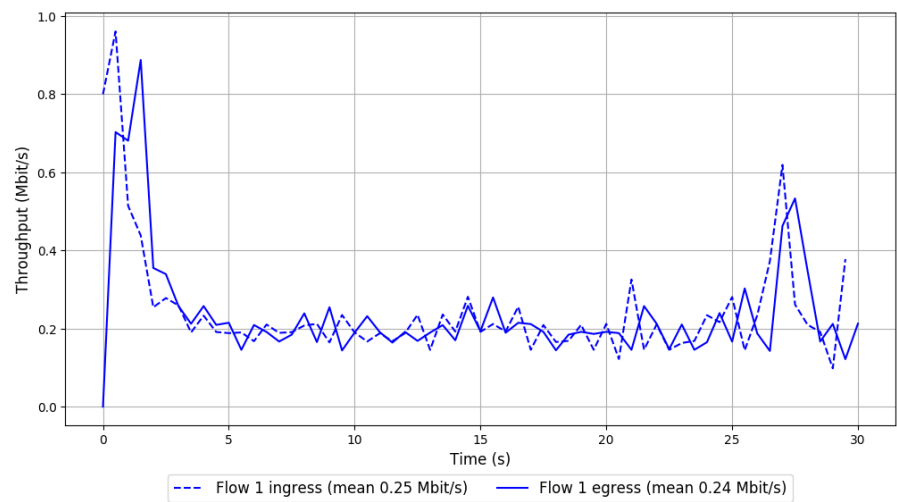


Run 10: Statistics of Sprout

Start at: 2018-05-25 04:25:23
End at: 2018-05-25 04:25:53
Local clock offset: -3.282 ms
Remote clock offset: 14.847 ms

Below is generated by plot.py at 2018-05-25 04:40:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 78.037 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 78.037 ms
Loss rate: 1.13%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-05-25 01:31:09

End at: 2018-05-25 01:31:39

Local clock offset: -4.726 ms

Remote clock offset: 3.178 ms

Below is generated by plot.py at 2018-05-25 04:41:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.14 Mbit/s

95th percentile per-packet one-way delay: 91.549 ms

Loss rate: 0.57%

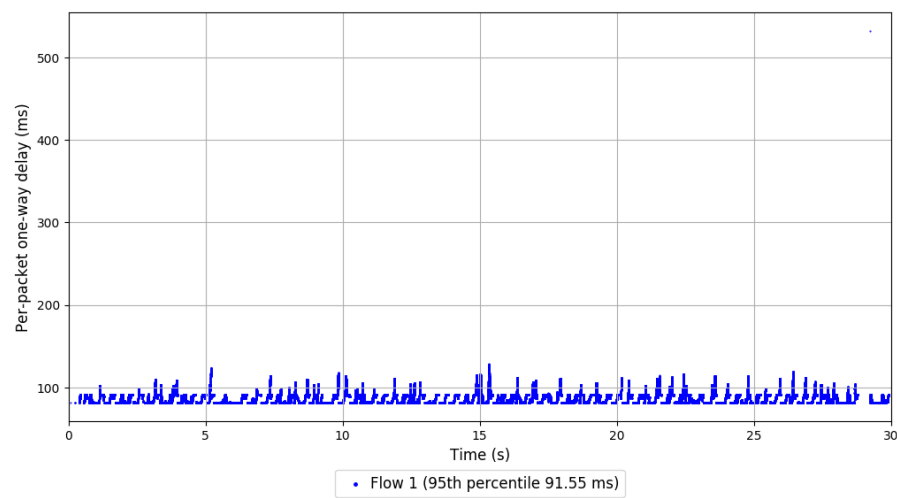
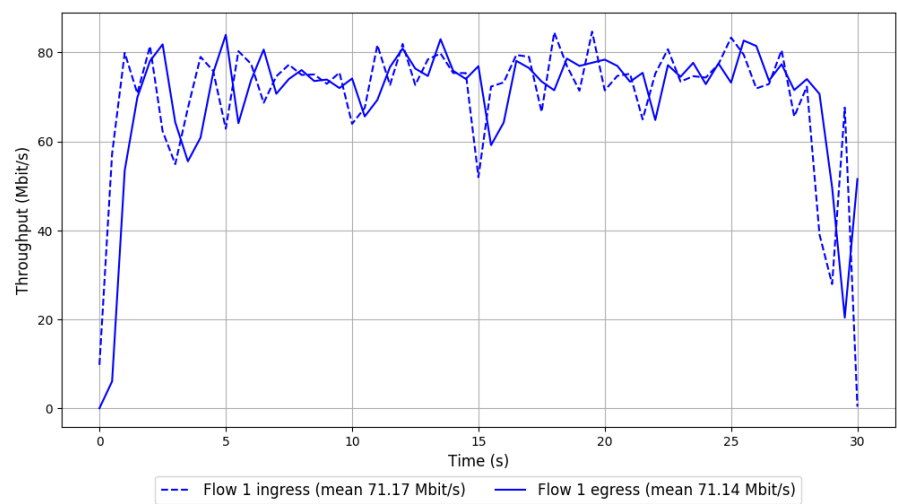
-- Flow 1:

Average throughput: 71.14 Mbit/s

95th percentile per-packet one-way delay: 91.549 ms

Loss rate: 0.57%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-05-25 01:49:32

End at: 2018-05-25 01:50:02

Local clock offset: -1.334 ms

Remote clock offset: 4.354 ms

Below is generated by plot.py at 2018-05-25 04:41:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.56 Mbit/s

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

Loss rate: 0.56%

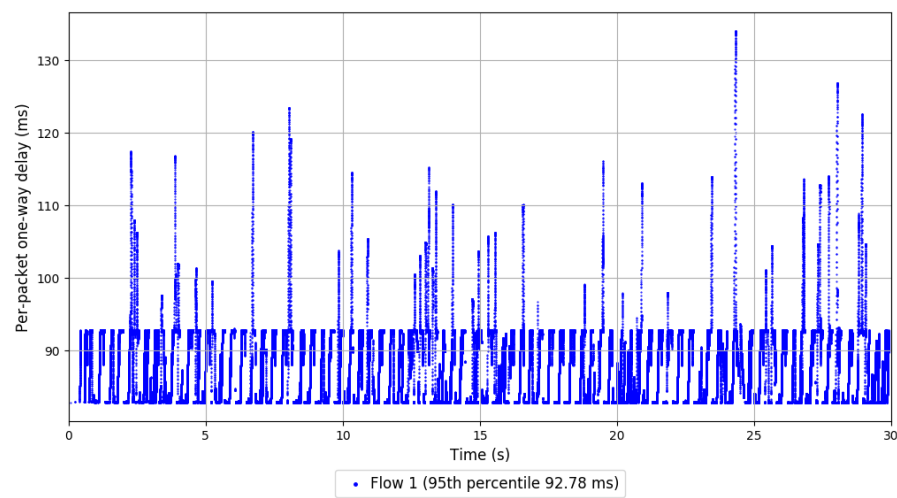
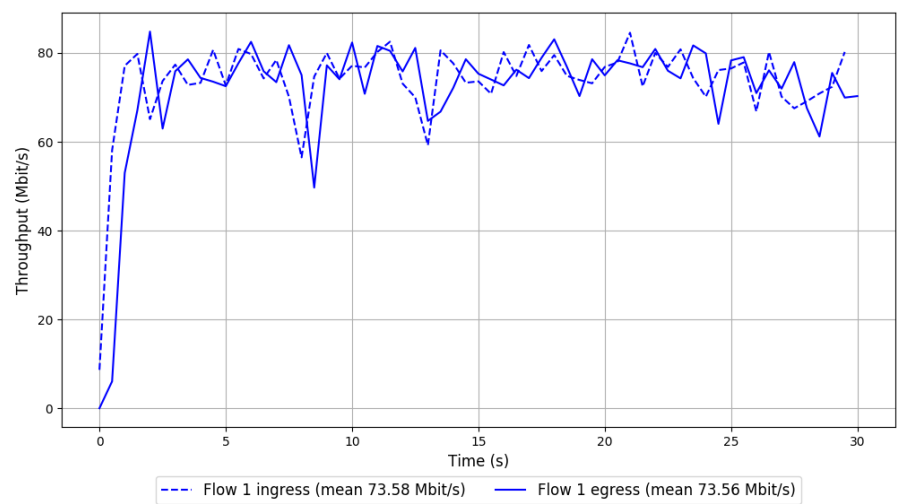
-- Flow 1:

Average throughput: 73.56 Mbit/s

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

Loss rate: 0.56%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-05-25 02:07:53

End at: 2018-05-25 02:08:23

Local clock offset: -5.566 ms

Remote clock offset: 7.276 ms

Below is generated by plot.py at 2018-05-25 04:41:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.82 Mbit/s

95th percentile per-packet one-way delay: 91.935 ms

Loss rate: 0.53%

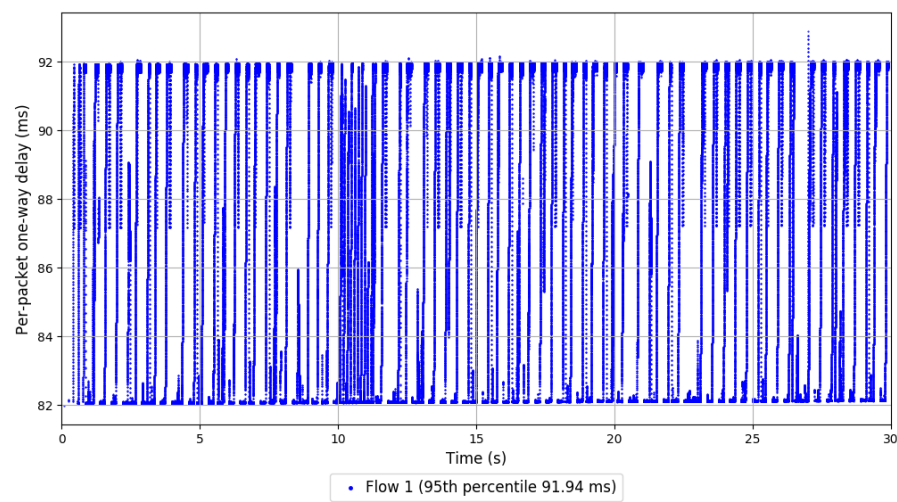
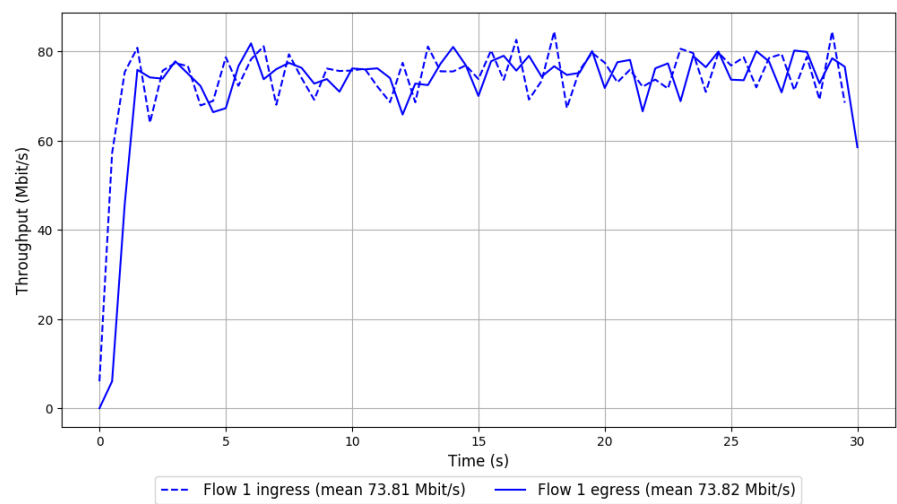
-- Flow 1:

Average throughput: 73.82 Mbit/s

95th percentile per-packet one-way delay: 91.935 ms

Loss rate: 0.53%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-05-25 02:26:21

End at: 2018-05-25 02:26:51

Local clock offset: -6.978 ms

Remote clock offset: 4.053 ms

Below is generated by plot.py at 2018-05-25 04:41:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.24 Mbit/s

95th percentile per-packet one-way delay: 90.808 ms

Loss rate: 0.53%

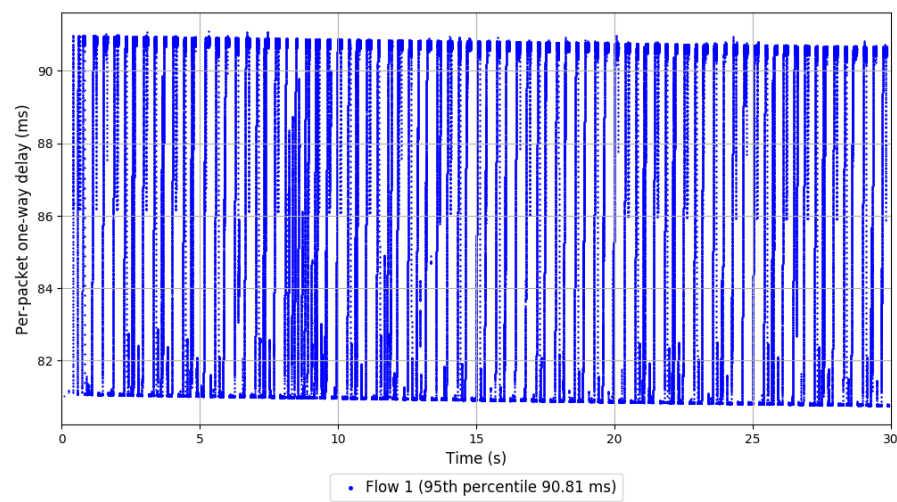
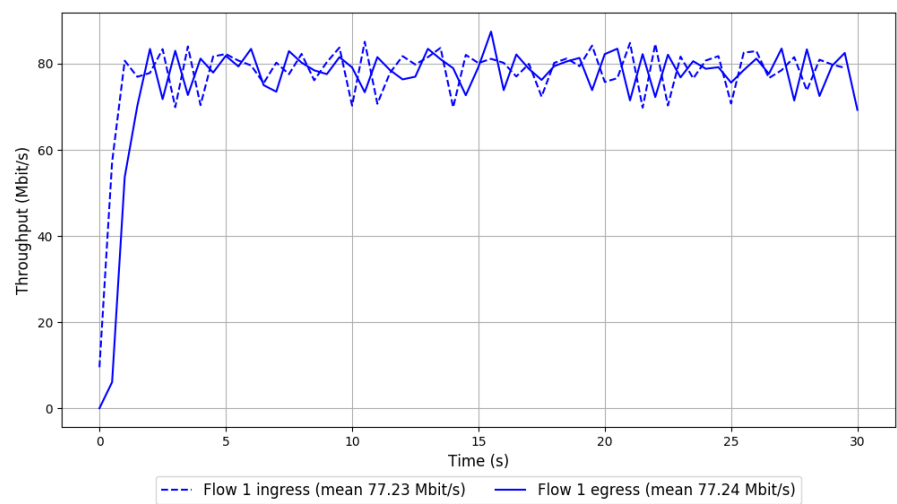
-- Flow 1:

Average throughput: 77.24 Mbit/s

95th percentile per-packet one-way delay: 90.808 ms

Loss rate: 0.53%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-05-25 02:44:48

End at: 2018-05-25 02:45:18

Local clock offset: -1.612 ms

Remote clock offset: 3.68 ms

Below is generated by plot.py at 2018-05-25 04:41:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.48 Mbit/s

95th percentile per-packet one-way delay: 90.938 ms

Loss rate: 0.71%

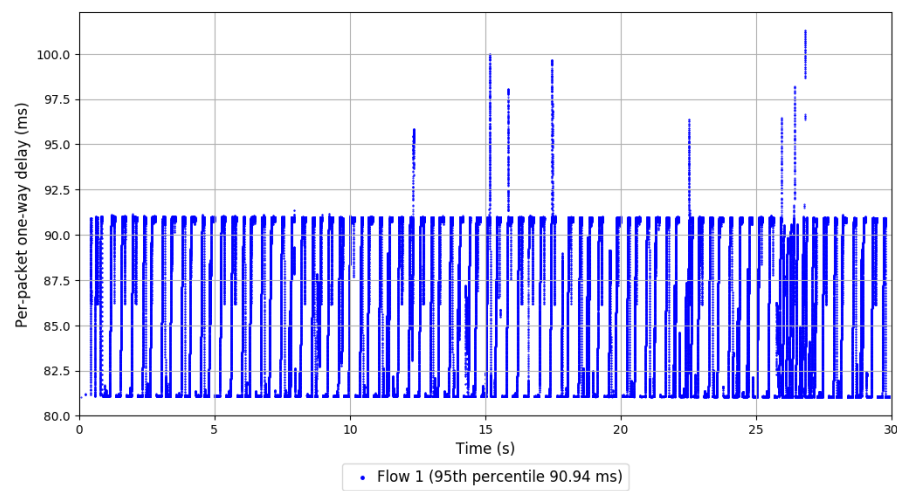
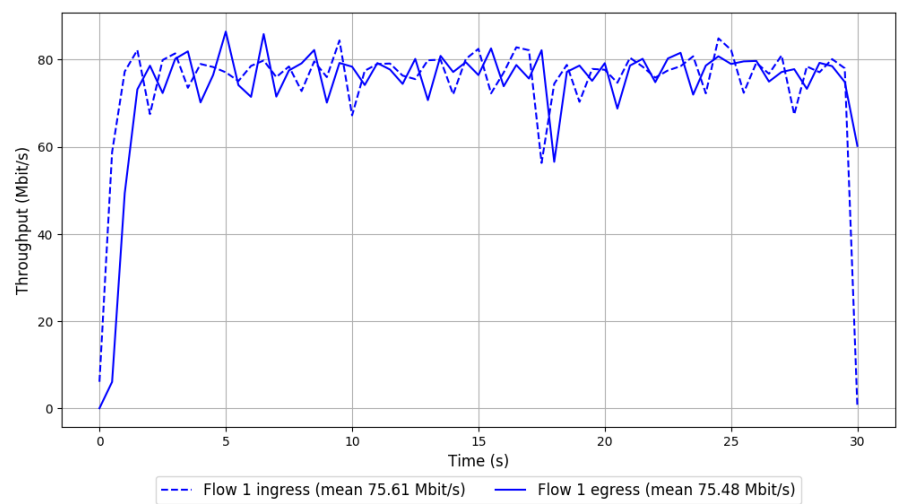
-- Flow 1:

Average throughput: 75.48 Mbit/s

95th percentile per-packet one-way delay: 90.938 ms

Loss rate: 0.71%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-05-25 03:03:16

End at: 2018-05-25 03:03:46

Local clock offset: -1.334 ms

Remote clock offset: 3.61 ms

Below is generated by plot.py at 2018-05-25 04:41:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.26 Mbit/s

95th percentile per-packet one-way delay: 91.587 ms

Loss rate: 0.46%

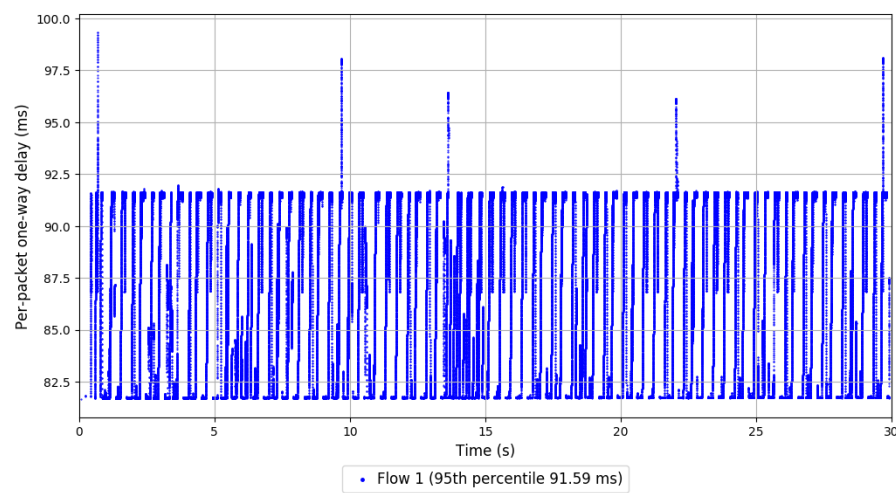
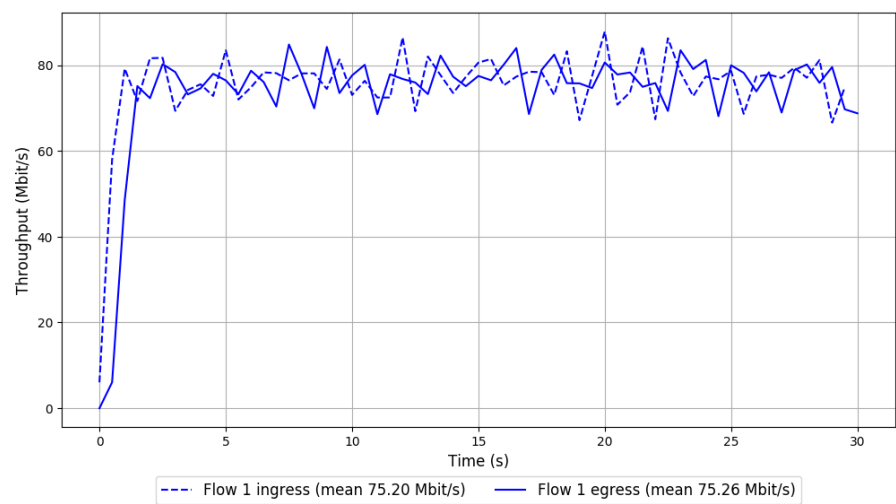
-- Flow 1:

Average throughput: 75.26 Mbit/s

95th percentile per-packet one-way delay: 91.587 ms

Loss rate: 0.46%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-05-25 03:21:44

End at: 2018-05-25 03:22:14

Local clock offset: -1.471 ms

Remote clock offset: 8.278 ms

Below is generated by plot.py at 2018-05-25 04:41:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.09 Mbit/s

95th percentile per-packet one-way delay: 86.361 ms

Loss rate: 0.12%

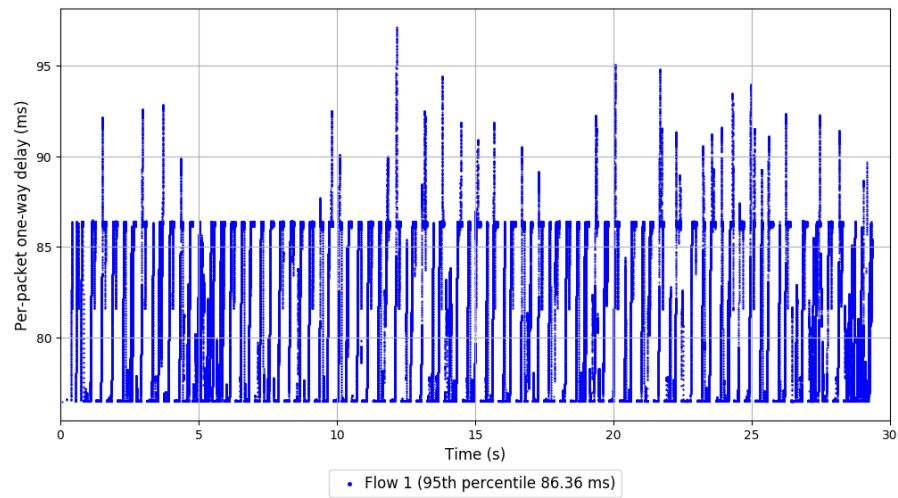
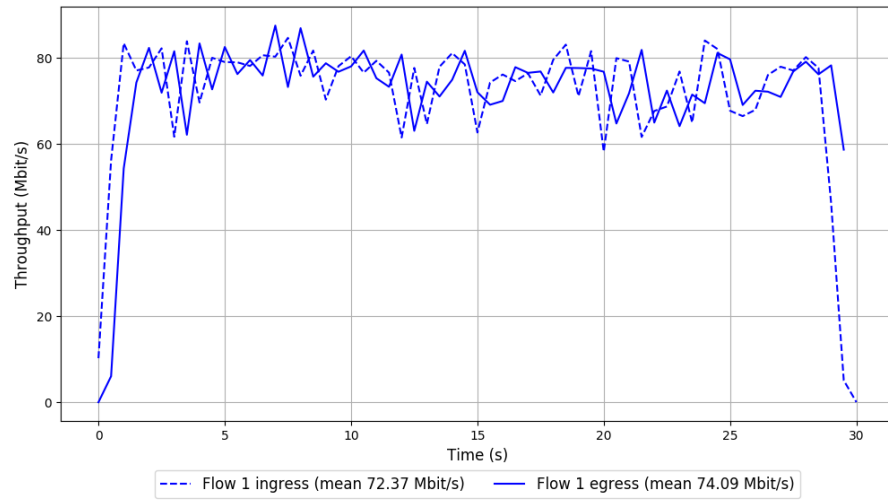
-- Flow 1:

Average throughput: 74.09 Mbit/s

95th percentile per-packet one-way delay: 86.361 ms

Loss rate: 0.12%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-05-25 03:40:13

End at: 2018-05-25 03:40:43

Local clock offset: -1.959 ms

Remote clock offset: 6.91 ms

Below is generated by plot.py at 2018-05-25 04:41:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.63 Mbit/s

95th percentile per-packet one-way delay: 89.893 ms

Loss rate: 0.56%

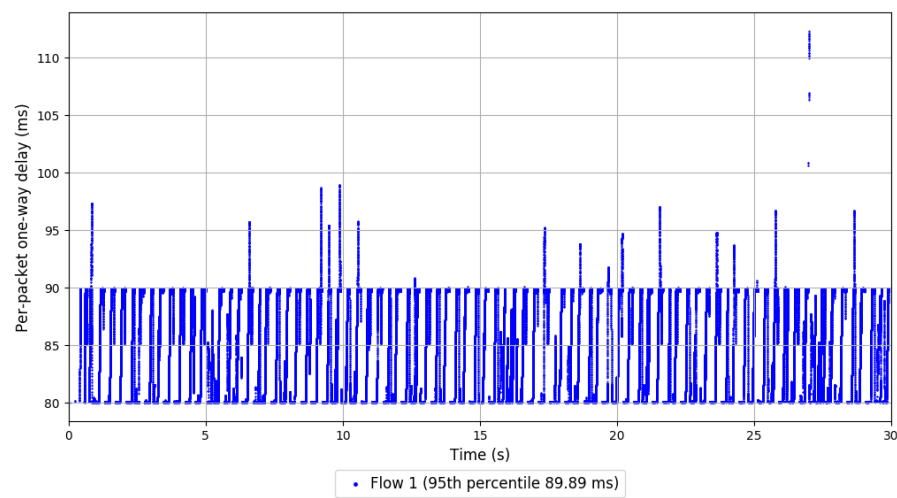
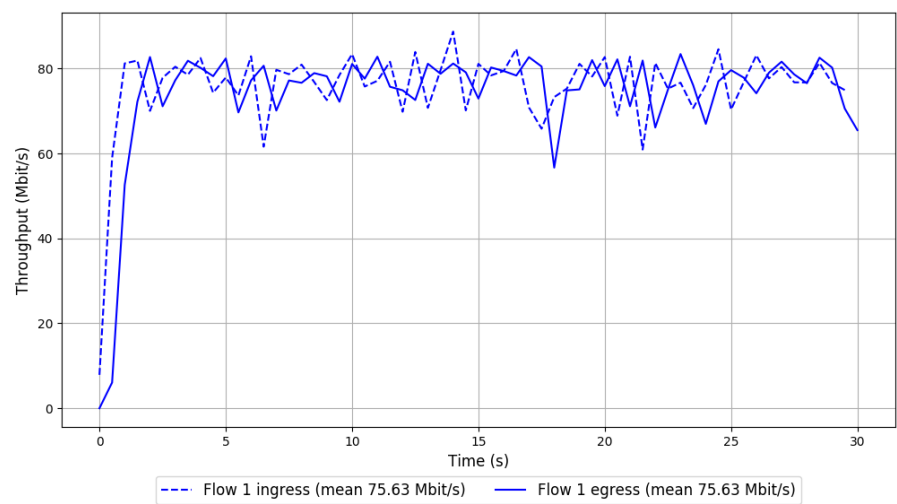
-- Flow 1:

Average throughput: 75.63 Mbit/s

95th percentile per-packet one-way delay: 89.893 ms

Loss rate: 0.56%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-05-25 03:58:47

End at: 2018-05-25 03:59:17

Local clock offset: -2.206 ms

Remote clock offset: 3.253 ms

Below is generated by plot.py at 2018-05-25 04:42:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.44 Mbit/s

95th percentile per-packet one-way delay: 92.301 ms

Loss rate: 0.52%

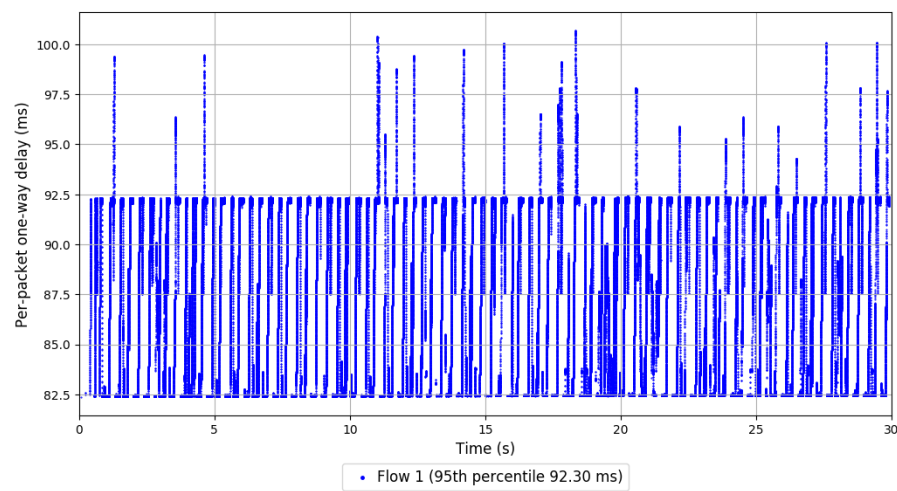
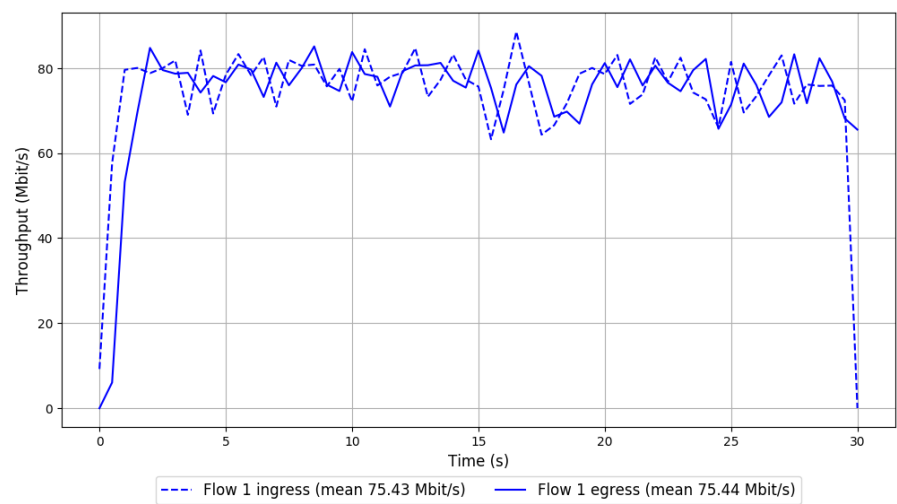
-- Flow 1:

Average throughput: 75.44 Mbit/s

95th percentile per-packet one-way delay: 92.301 ms

Loss rate: 0.52%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-05-25 04:17:15

End at: 2018-05-25 04:17:45

Local clock offset: -3.251 ms

Remote clock offset: 9.776 ms

Below is generated by plot.py at 2018-05-25 04:42:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.83 Mbit/s

95th percentile per-packet one-way delay: 93.045 ms

Loss rate: 0.52%

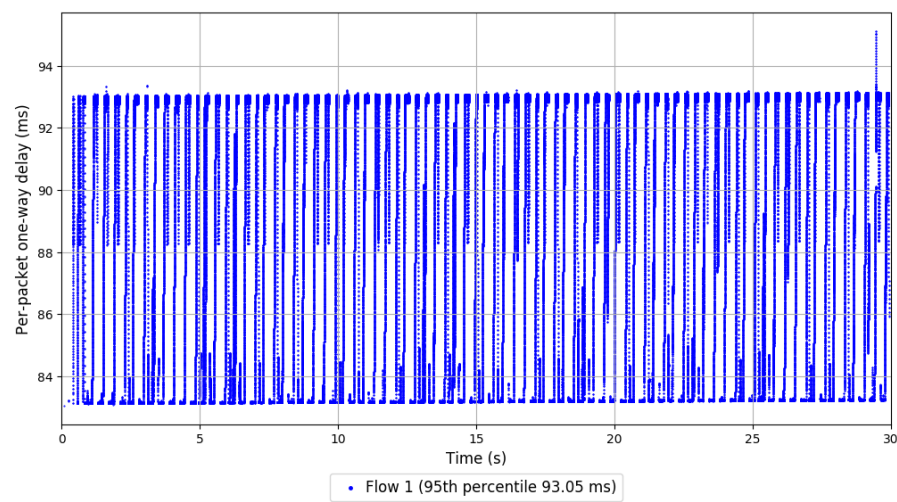
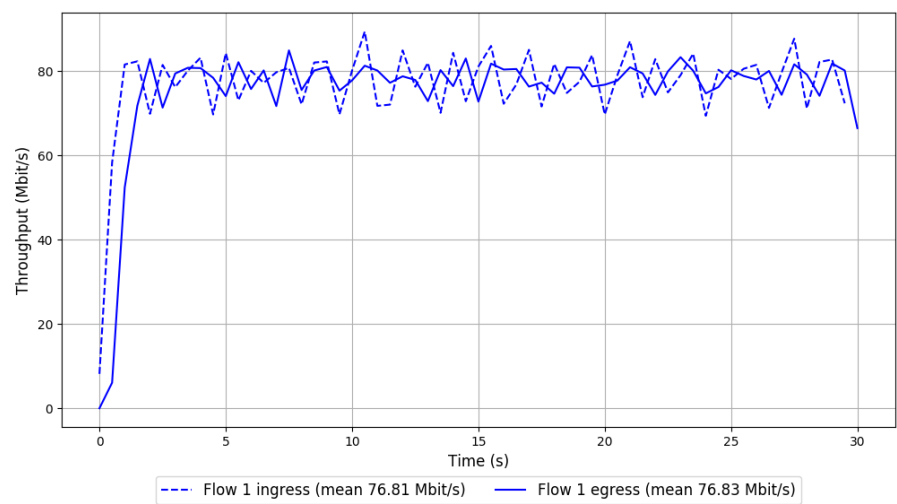
-- Flow 1:

Average throughput: 76.83 Mbit/s

95th percentile per-packet one-way delay: 93.045 ms

Loss rate: 0.52%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-05-25 01:25:28

End at: 2018-05-25 01:25:58

Local clock offset: -7.673 ms

Remote clock offset: 3.784 ms

Below is generated by plot.py at 2018-05-25 04:42:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.38 Mbit/s

95th percentile per-packet one-way delay: 94.981 ms

Loss rate: 0.53%

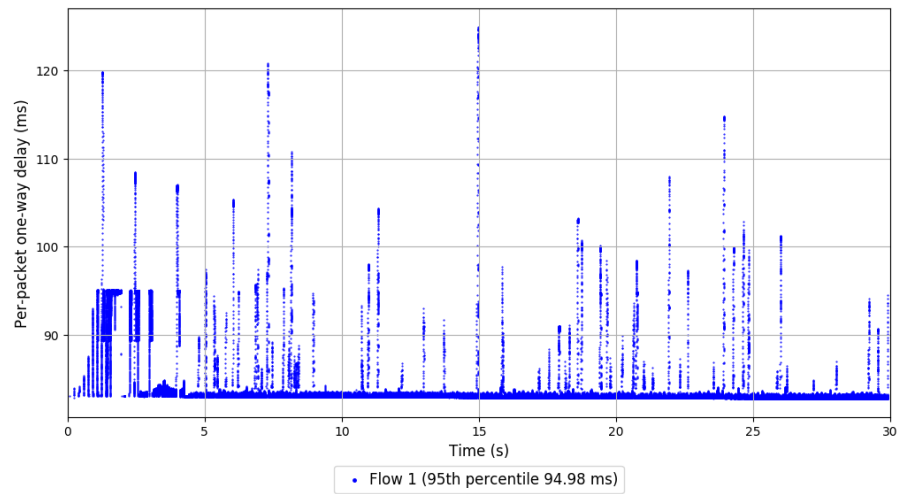
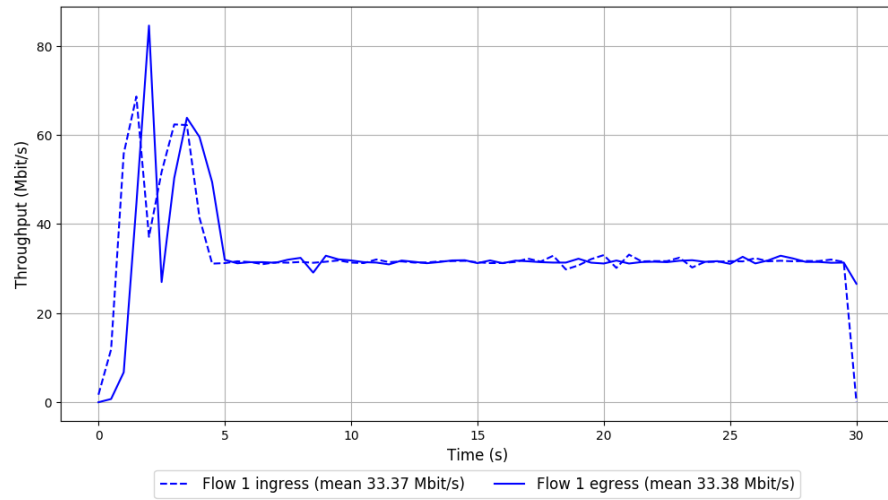
-- Flow 1:

Average throughput: 33.38 Mbit/s

95th percentile per-packet one-way delay: 94.981 ms

Loss rate: 0.53%

Run 1: Report of TCP Vegas — Data Link

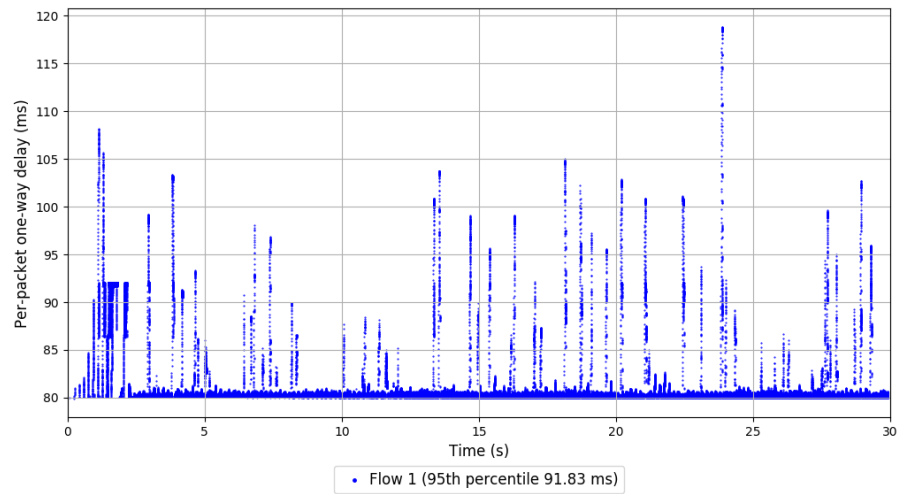
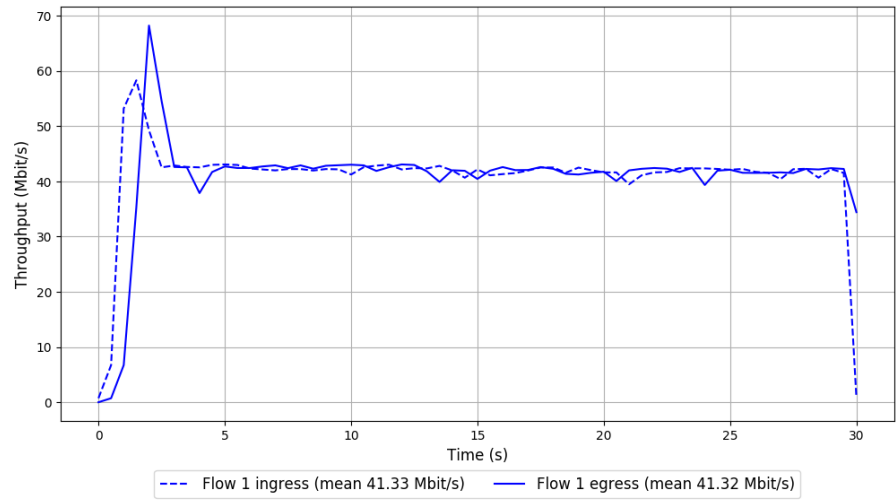


Run 2: Statistics of TCP Vegas

Start at: 2018-05-25 01:43:51
End at: 2018-05-25 01:44:21
Local clock offset: -1.856 ms
Remote clock offset: 7.248 ms

Below is generated by plot.py at 2018-05-25 04:42:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 41.32 Mbit/s
95th percentile per-packet one-way delay: 91.825 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 41.32 Mbit/s
95th percentile per-packet one-way delay: 91.825 ms
Loss rate: 0.57%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-05-25 02:02:12

End at: 2018-05-25 02:02:42

Local clock offset: -4.045 ms

Remote clock offset: 3.673 ms

Below is generated by plot.py at 2018-05-25 04:42:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.03 Mbit/s

95th percentile per-packet one-way delay: 95.571 ms

Loss rate: 0.55%

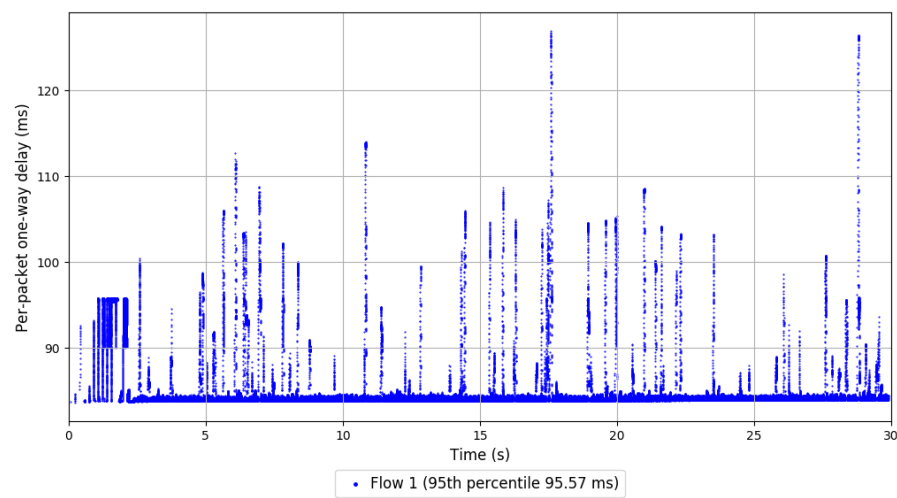
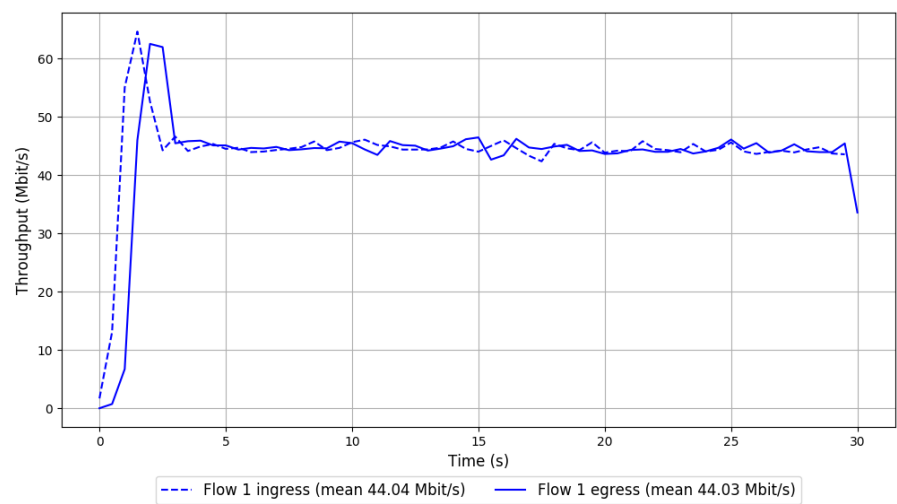
-- Flow 1:

Average throughput: 44.03 Mbit/s

95th percentile per-packet one-way delay: 95.571 ms

Loss rate: 0.55%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-05-25 02:20:38

End at: 2018-05-25 02:21:08

Local clock offset: -7.138 ms

Remote clock offset: 3.504 ms

Below is generated by plot.py at 2018-05-25 04:42:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.09 Mbit/s

95th percentile per-packet one-way delay: 82.746 ms

Loss rate: 0.60%

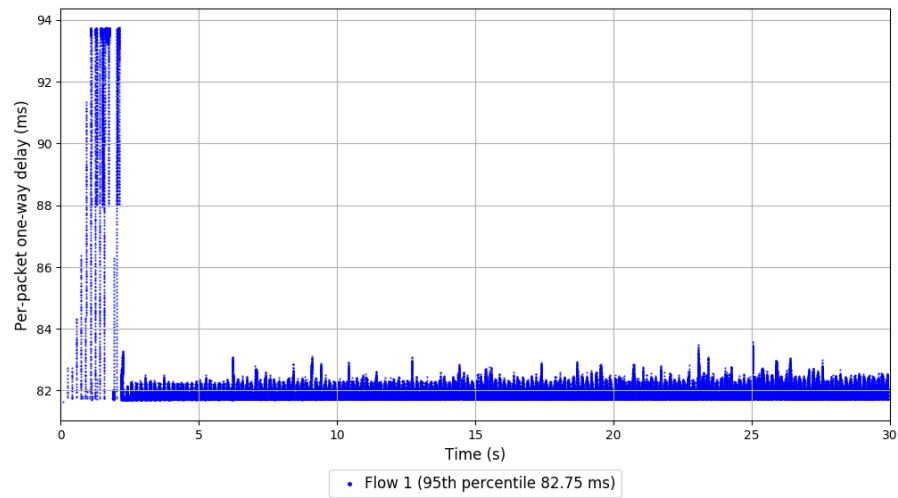
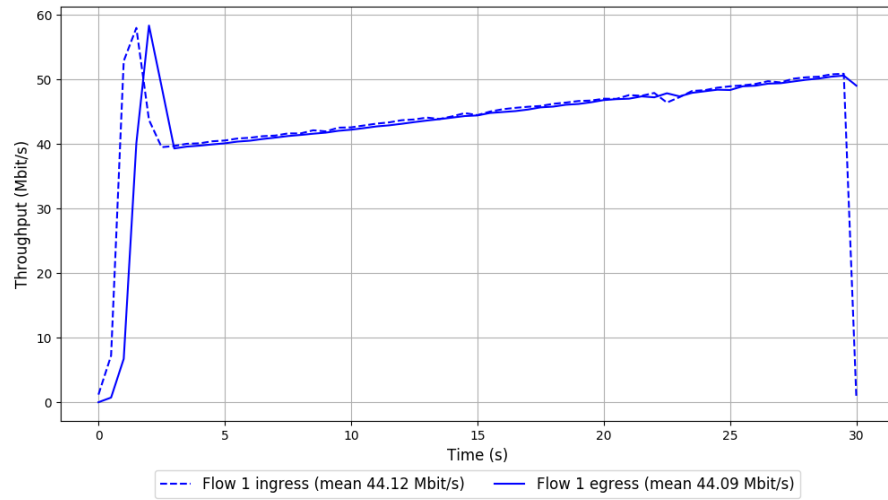
-- Flow 1:

Average throughput: 44.09 Mbit/s

95th percentile per-packet one-way delay: 82.746 ms

Loss rate: 0.60%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-05-25 02:39:06

End at: 2018-05-25 02:39:36

Local clock offset: -2.416 ms

Remote clock offset: 6.615 ms

Below is generated by plot.py at 2018-05-25 04:42:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.18 Mbit/s

95th percentile per-packet one-way delay: 83.829 ms

Loss rate: 0.63%

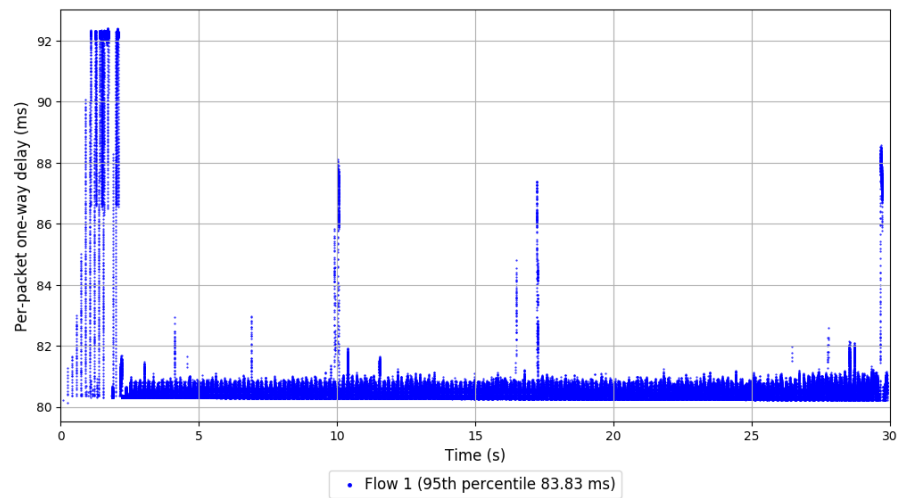
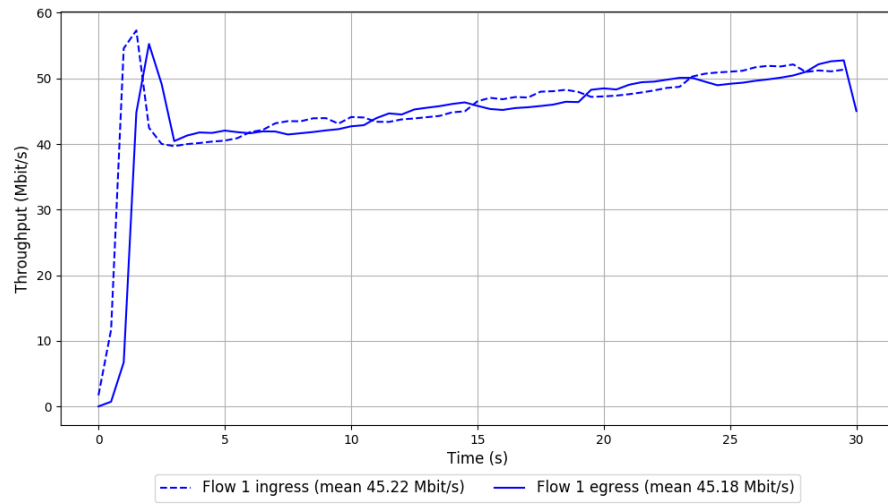
-- Flow 1:

Average throughput: 45.18 Mbit/s

95th percentile per-packet one-way delay: 83.829 ms

Loss rate: 0.63%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-05-25 02:57:34

End at: 2018-05-25 02:58:04

Local clock offset: -0.985 ms

Remote clock offset: 8.256 ms

Below is generated by plot.py at 2018-05-25 04:42:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.78 Mbit/s

95th percentile per-packet one-way delay: 78.504 ms

Loss rate: 0.63%

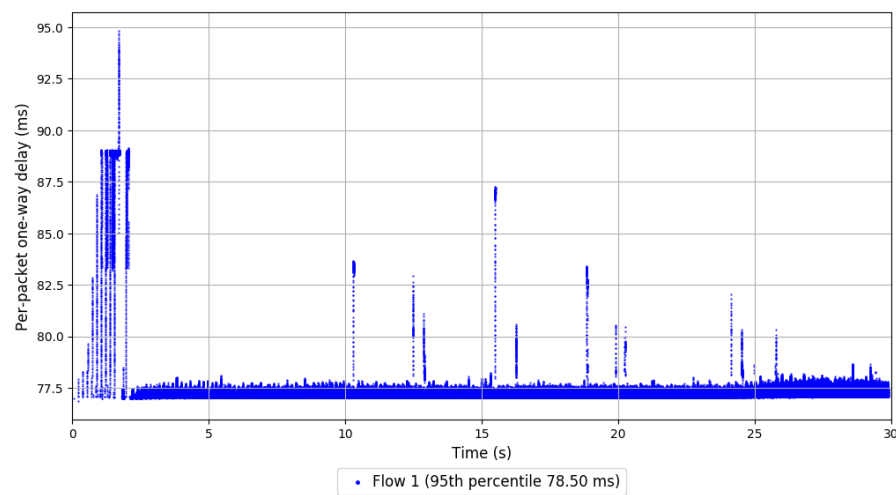
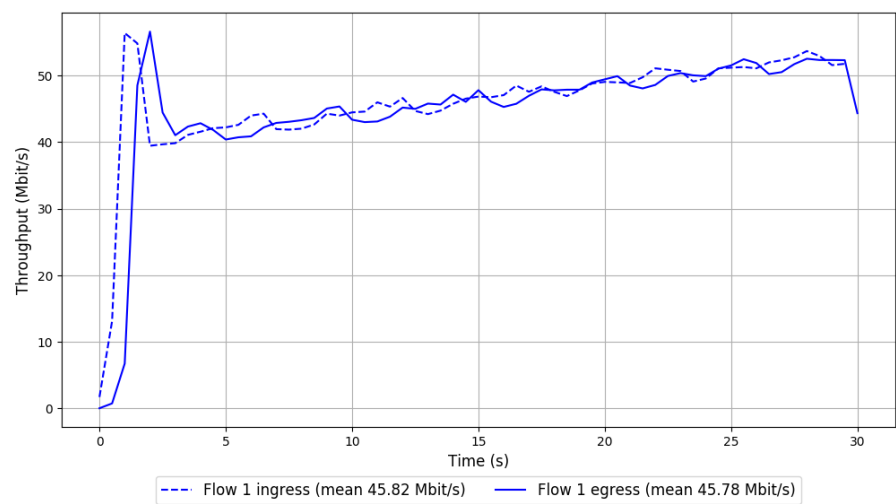
-- Flow 1:

Average throughput: 45.78 Mbit/s

95th percentile per-packet one-way delay: 78.504 ms

Loss rate: 0.63%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-05-25 03:16:02

End at: 2018-05-25 03:16:32

Local clock offset: -1.481 ms

Remote clock offset: 8.31 ms

Below is generated by plot.py at 2018-05-25 04:42:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.13 Mbit/s

95th percentile per-packet one-way delay: 80.652 ms

Loss rate: 0.54%

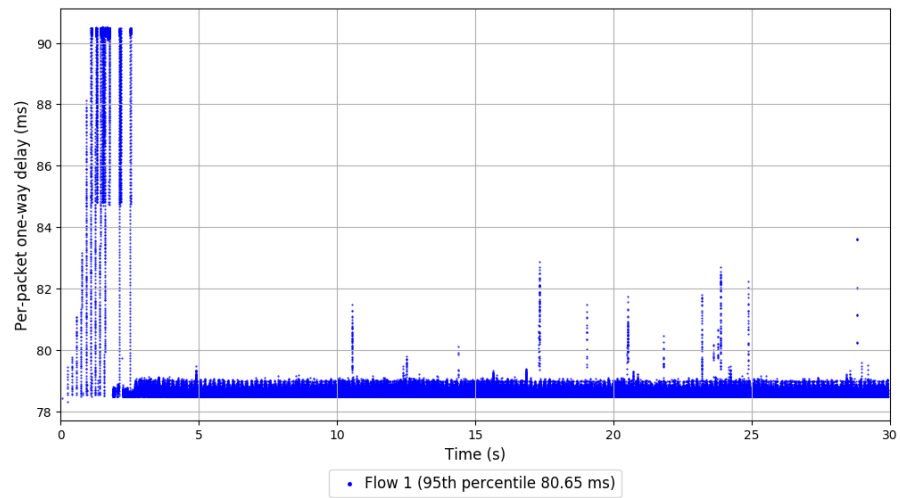
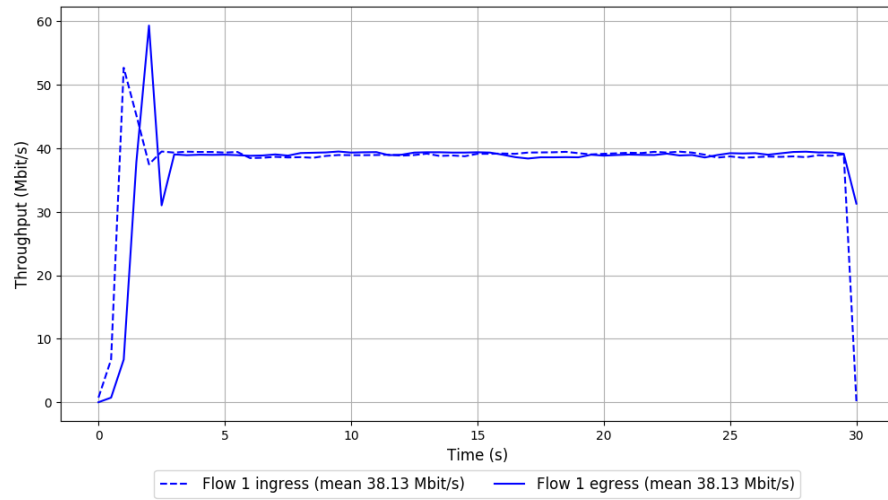
-- Flow 1:

Average throughput: 38.13 Mbit/s

95th percentile per-packet one-way delay: 80.652 ms

Loss rate: 0.54%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-05-25 03:34:30

End at: 2018-05-25 03:35:00

Local clock offset: -1.888 ms

Remote clock offset: 6.843 ms

Below is generated by plot.py at 2018-05-25 04:42:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.78 Mbit/s

95th percentile per-packet one-way delay: 87.795 ms

Loss rate: 0.53%

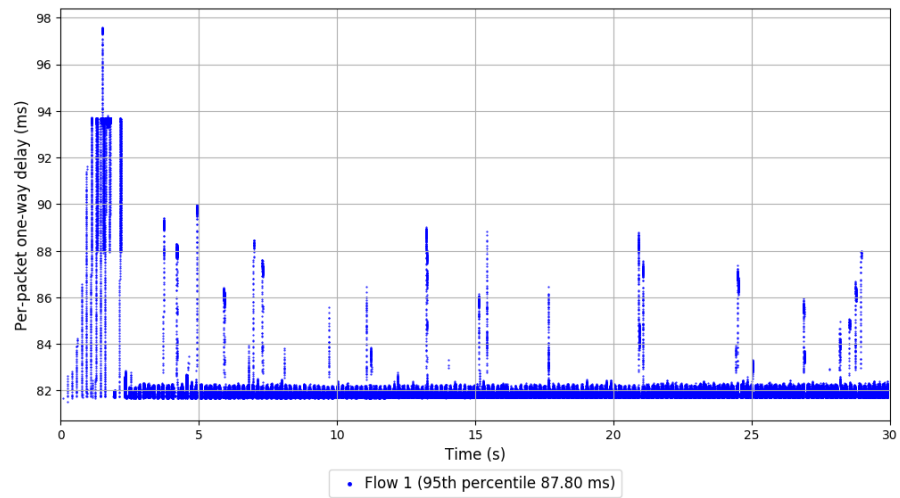
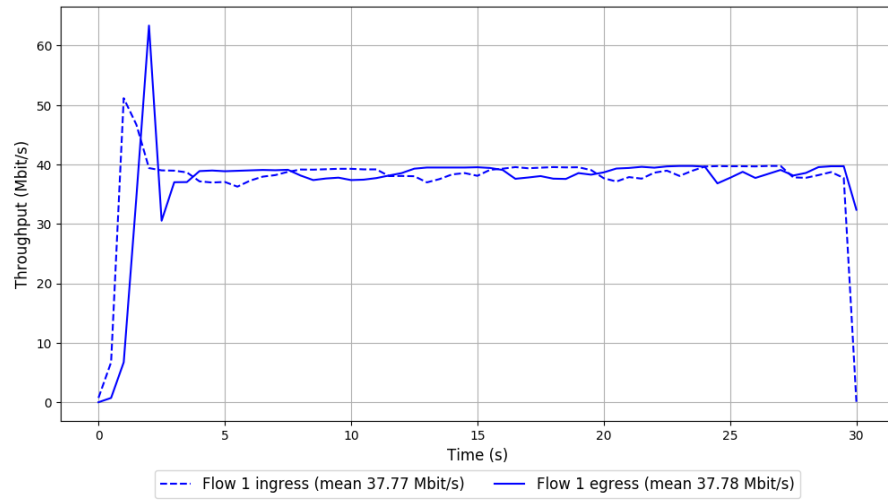
-- Flow 1:

Average throughput: 37.78 Mbit/s

95th percentile per-packet one-way delay: 87.795 ms

Loss rate: 0.53%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-05-25 03:52:59

End at: 2018-05-25 03:53:29

Local clock offset: -1.819 ms

Remote clock offset: 3.138 ms

Below is generated by plot.py at 2018-05-25 04:42:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.38 Mbit/s

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

Loss rate: 0.60%

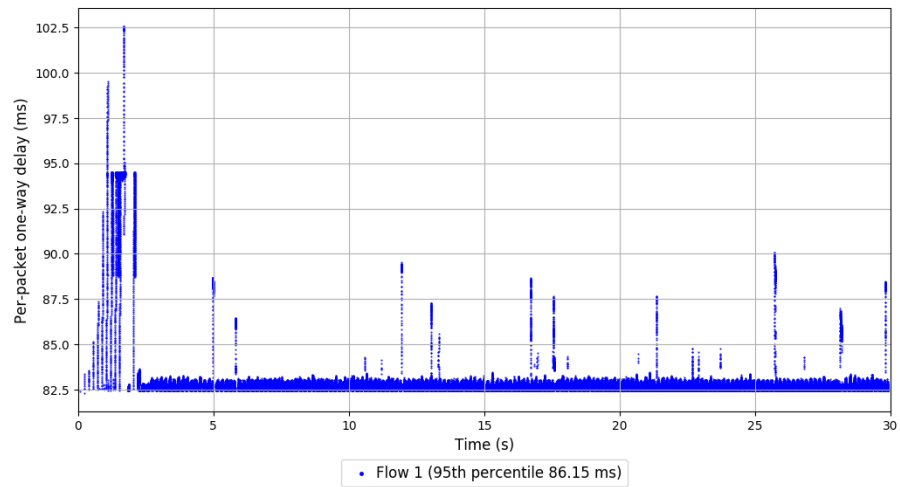
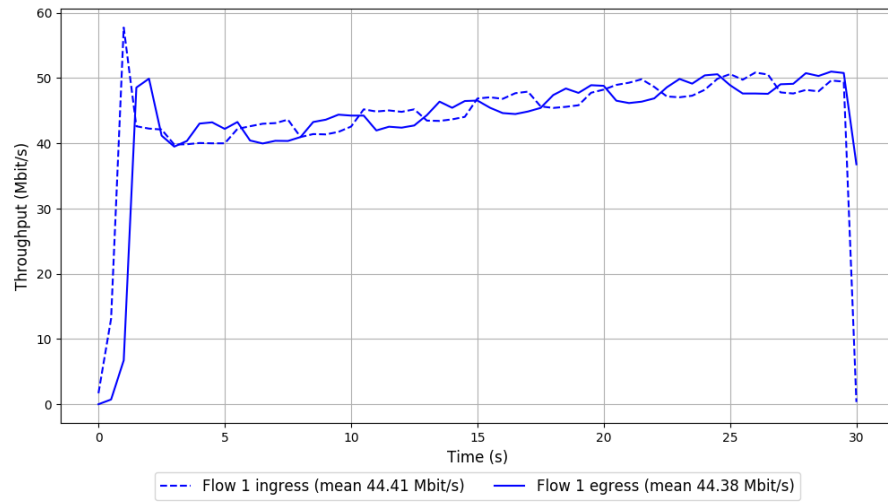
-- Flow 1:

Average throughput: 44.38 Mbit/s

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

Loss rate: 0.60%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-05-25 04:11:32

End at: 2018-05-25 04:12:02

Local clock offset: -2.999 ms

Remote clock offset: 8.074 ms

Below is generated by plot.py at 2018-05-25 04:42:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.11 Mbit/s

95th percentile per-packet one-way delay: 85.485 ms

Loss rate: 0.62%

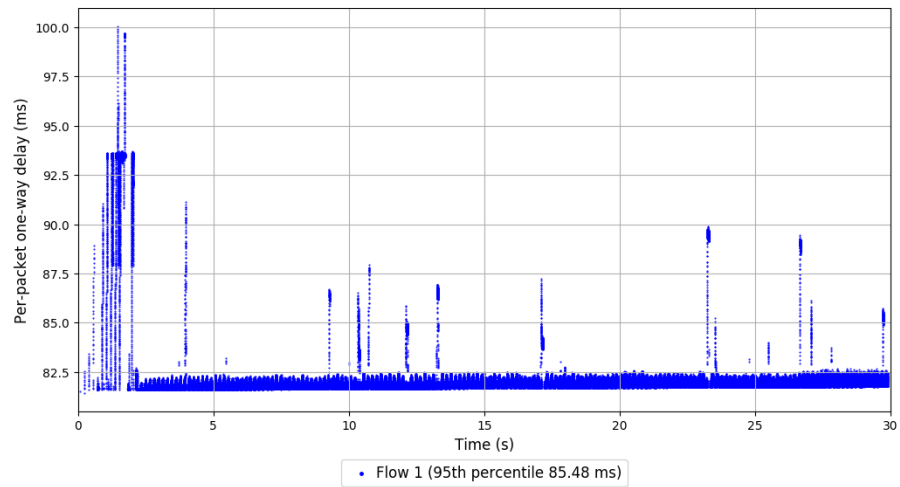
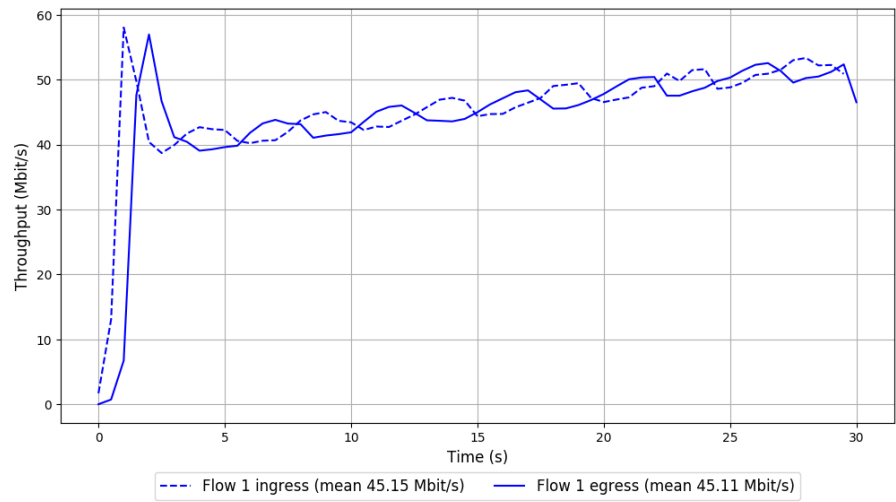
-- Flow 1:

Average throughput: 45.11 Mbit/s

95th percentile per-packet one-way delay: 85.485 ms

Loss rate: 0.62%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-05-25 01:28:55

End at: 2018-05-25 01:29:25

Local clock offset: -5.697 ms

Remote clock offset: 3.103 ms

Below is generated by plot.py at 2018-05-25 04:42:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 82.705 ms

Loss rate: 0.00%

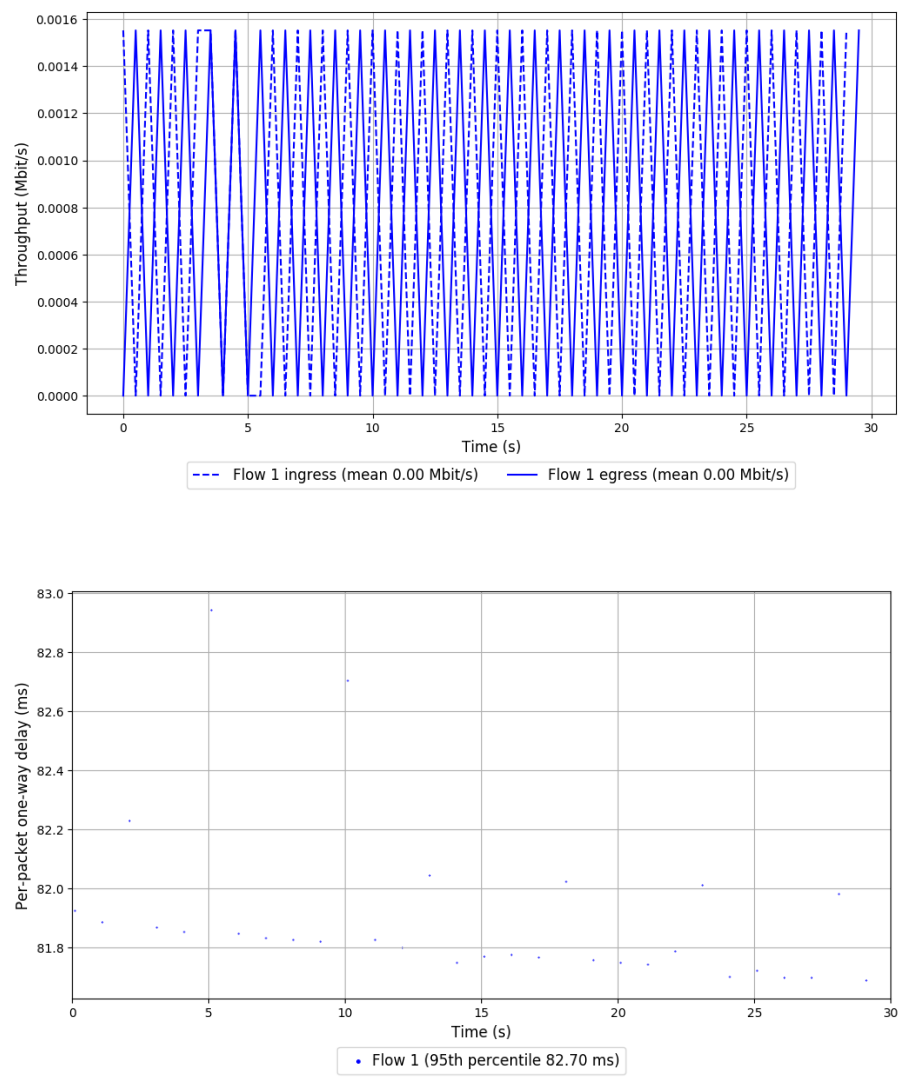
-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 82.705 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-05-25 01:47:18

End at: 2018-05-25 01:47:48

Local clock offset: -1.561 ms

Remote clock offset: 7.264 ms

Below is generated by plot.py at 2018-05-25 04:42:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 82.446 ms

Loss rate: 0.00%

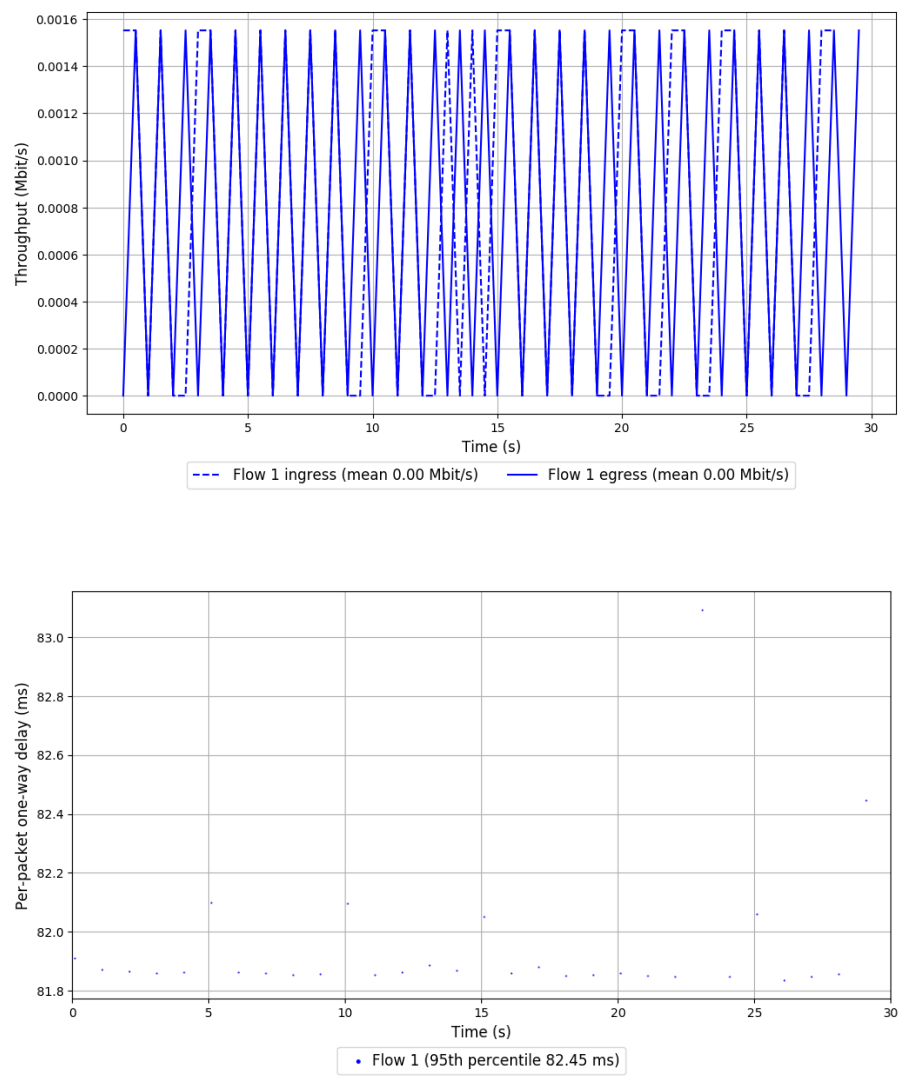
-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 82.446 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-05-25 02:05:39

End at: 2018-05-25 02:06:09

Local clock offset: -5.123 ms

Remote clock offset: 4.323 ms

Below is generated by plot.py at 2018-05-25 04:42:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 83.770 ms

Loss rate: 0.00%

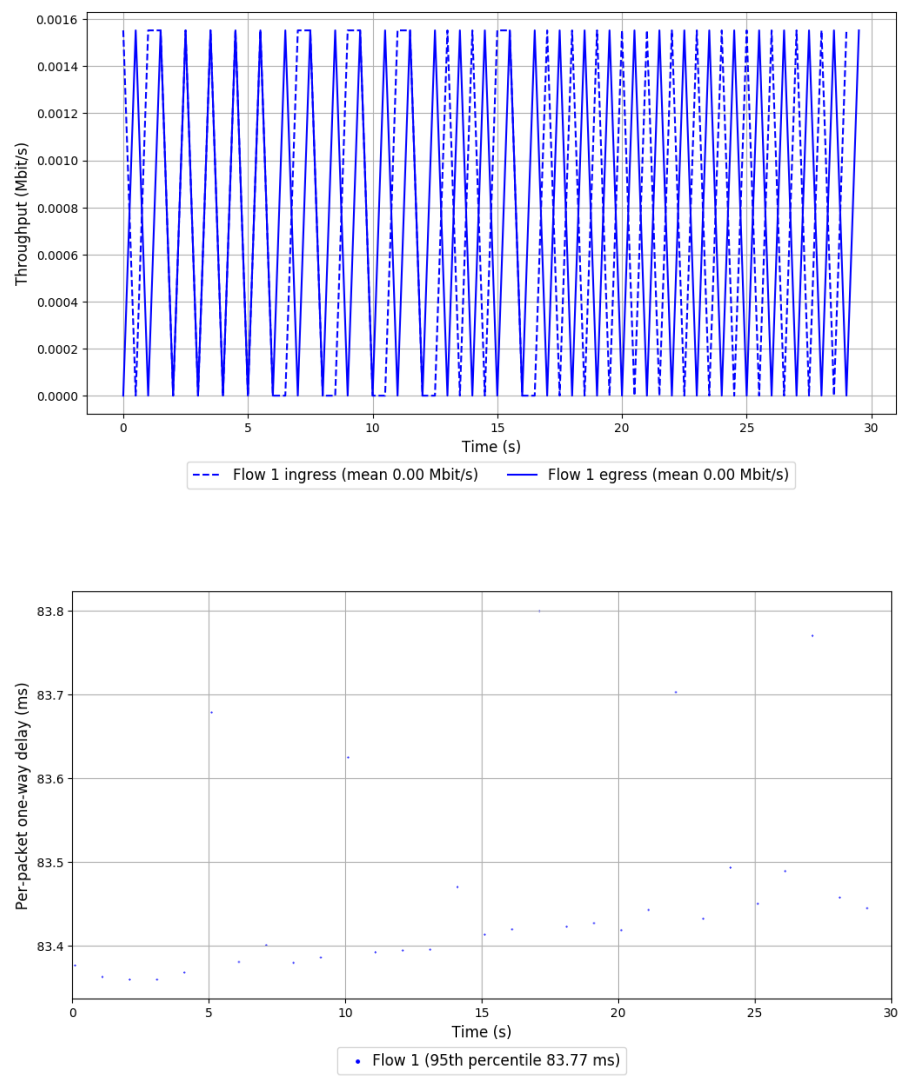
-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 83.770 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-05-25 02:24:07

End at: 2018-05-25 02:24:37

Local clock offset: -7.264 ms

Remote clock offset: 7.101 ms

Below is generated by plot.py at 2018-05-25 04:42:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 83.612 ms

Loss rate: 0.00%

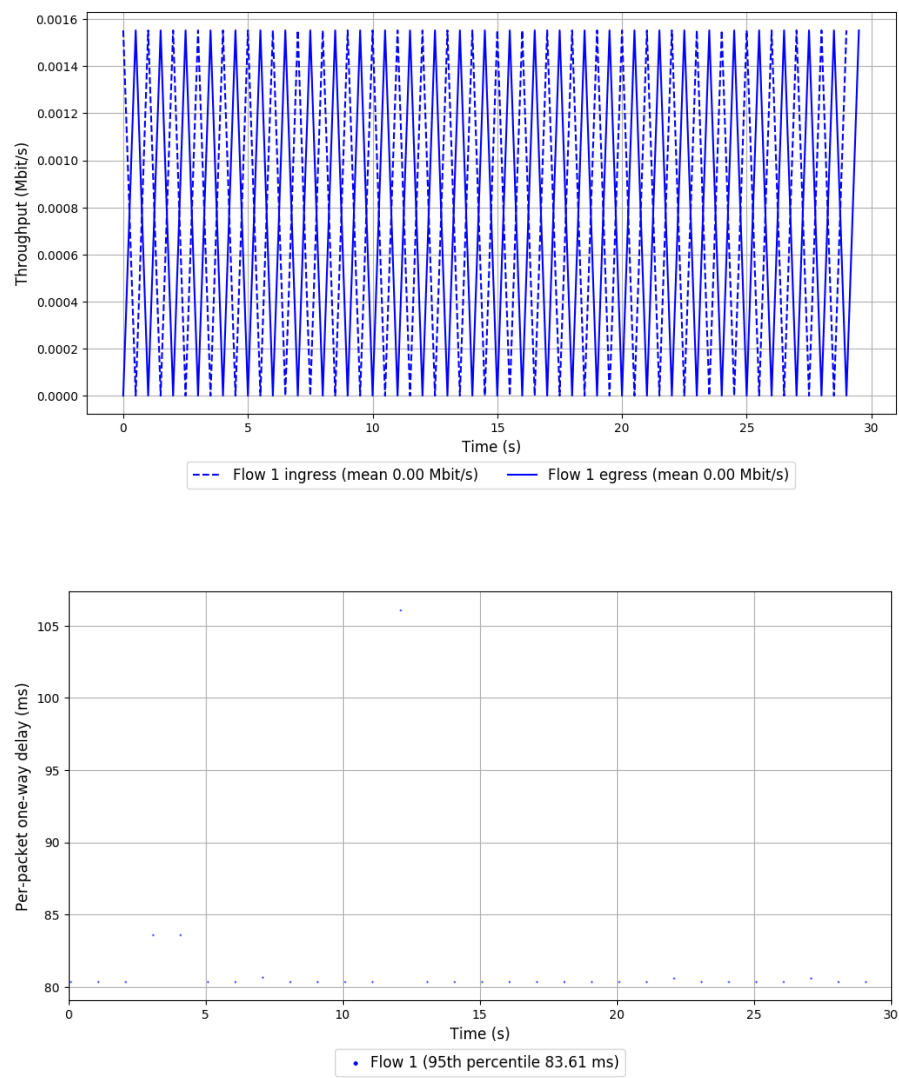
-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 83.612 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-05-25 02:42:35

End at: 2018-05-25 02:43:05

Local clock offset: -1.879 ms

Remote clock offset: 3.216 ms

Below is generated by plot.py at 2018-05-25 04:42:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 85.581 ms

Loss rate: 0.00%

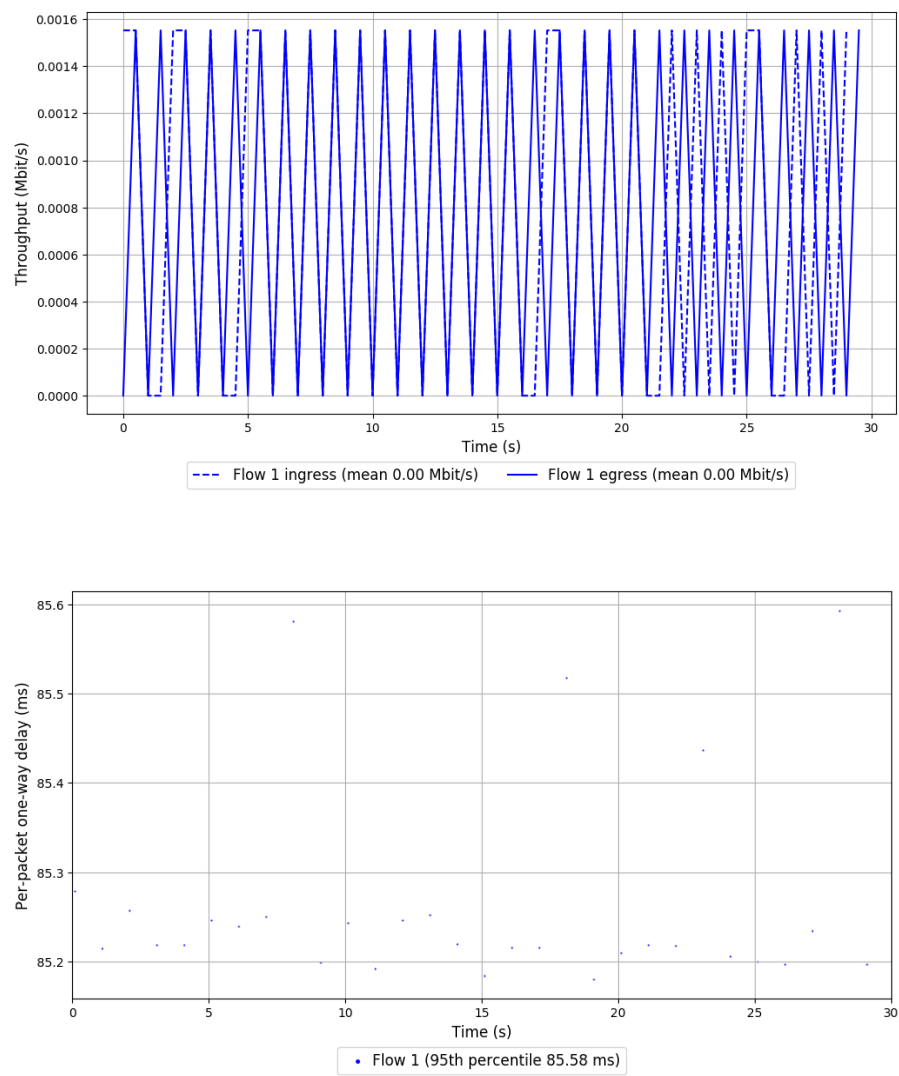
-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 85.581 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-05-25 03:01:02

End at: 2018-05-25 03:01:32

Local clock offset: -1.243 ms

Remote clock offset: 2.732 ms

Below is generated by plot.py at 2018-05-25 04:42:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 86.047 ms

Loss rate: 0.00%

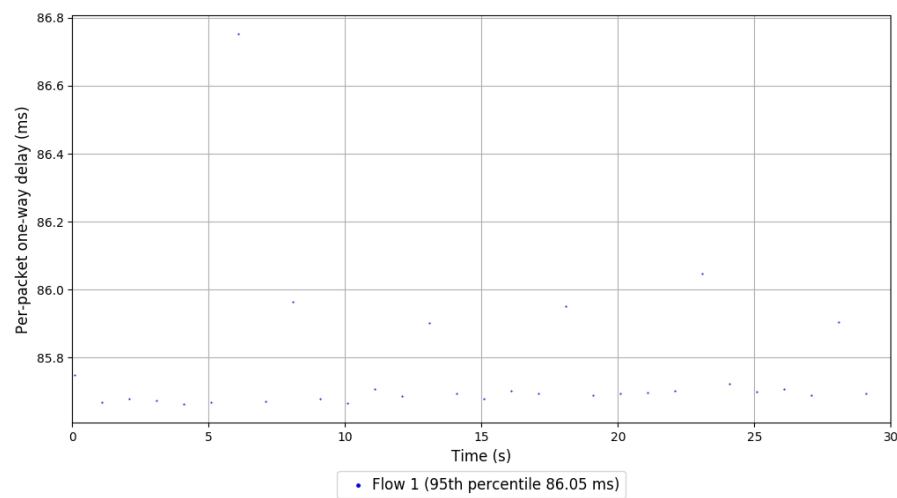
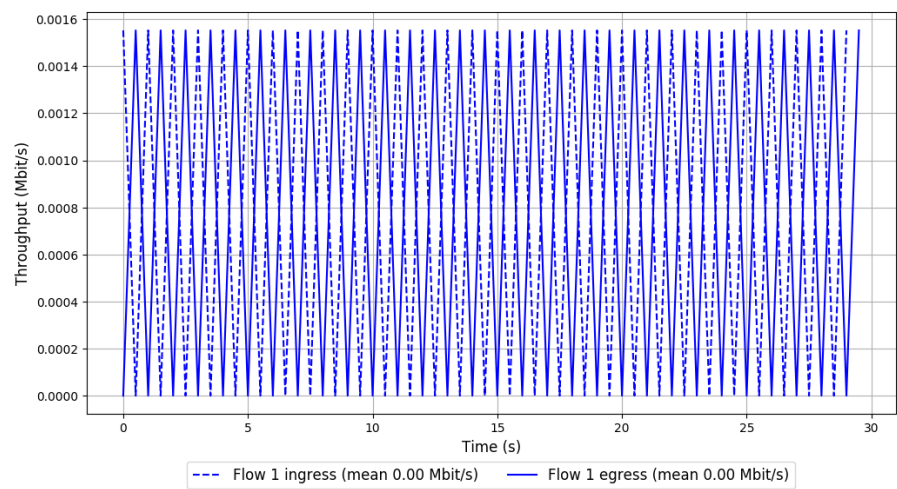
-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 86.047 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-05-25 03:19:30

End at: 2018-05-25 03:20:00

Local clock offset: -1.453 ms

Remote clock offset: 7.464 ms

Below is generated by plot.py at 2018-05-25 04:42:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 79.790 ms

Loss rate: 0.00%

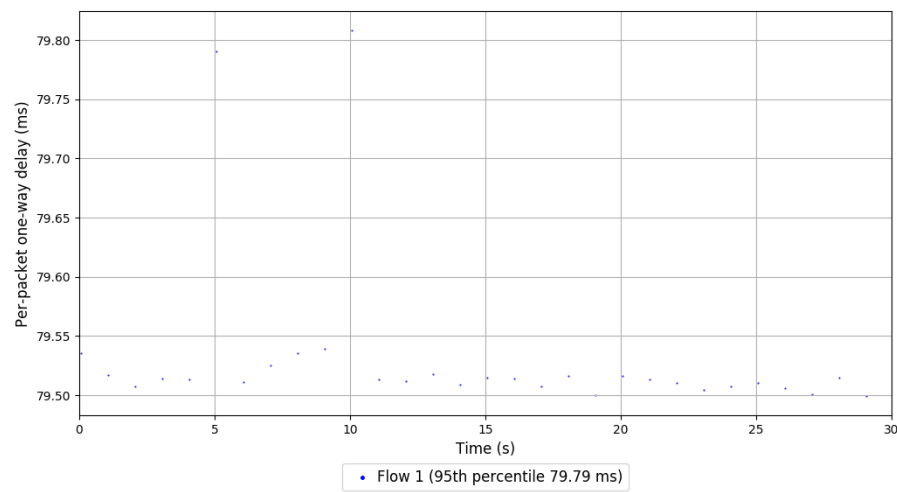
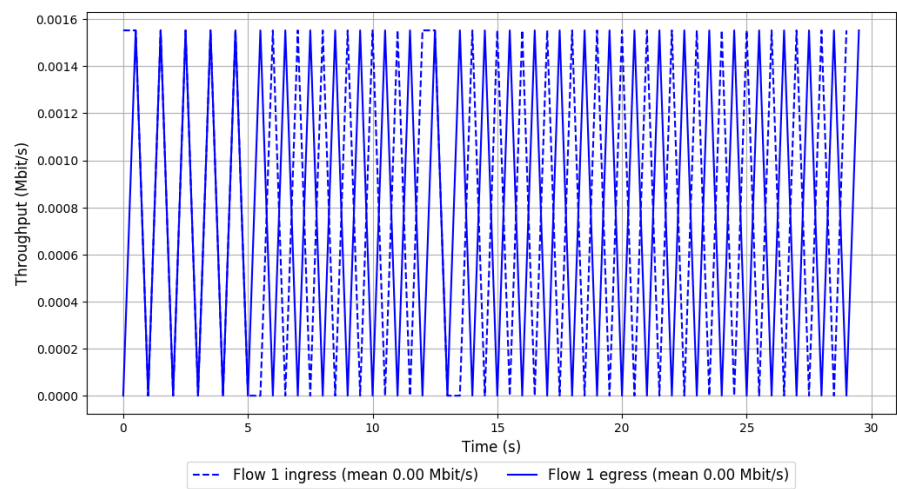
-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 79.790 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-05-25 03:37:59

End at: 2018-05-25 03:38:29

Local clock offset: -1.812 ms

Remote clock offset: 3.984 ms

Below is generated by plot.py at 2018-05-25 04:42:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 83.160 ms

Loss rate: 0.00%

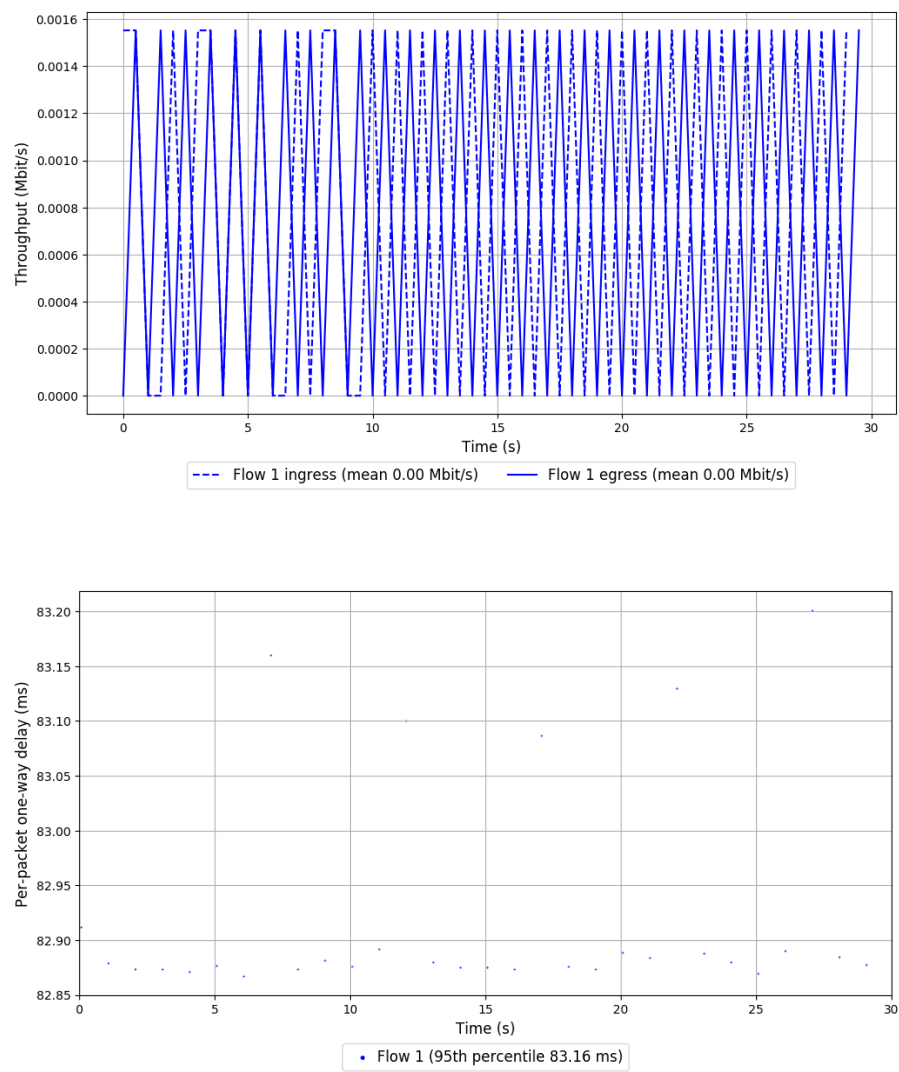
-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 83.160 ms

Loss rate: 0.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-05-25 03:56:28

End at: 2018-05-25 03:56:58

Local clock offset: -1.922 ms

Remote clock offset: 7.864 ms

Below is generated by plot.py at 2018-05-25 04:42:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 79.834 ms

Loss rate: 0.00%

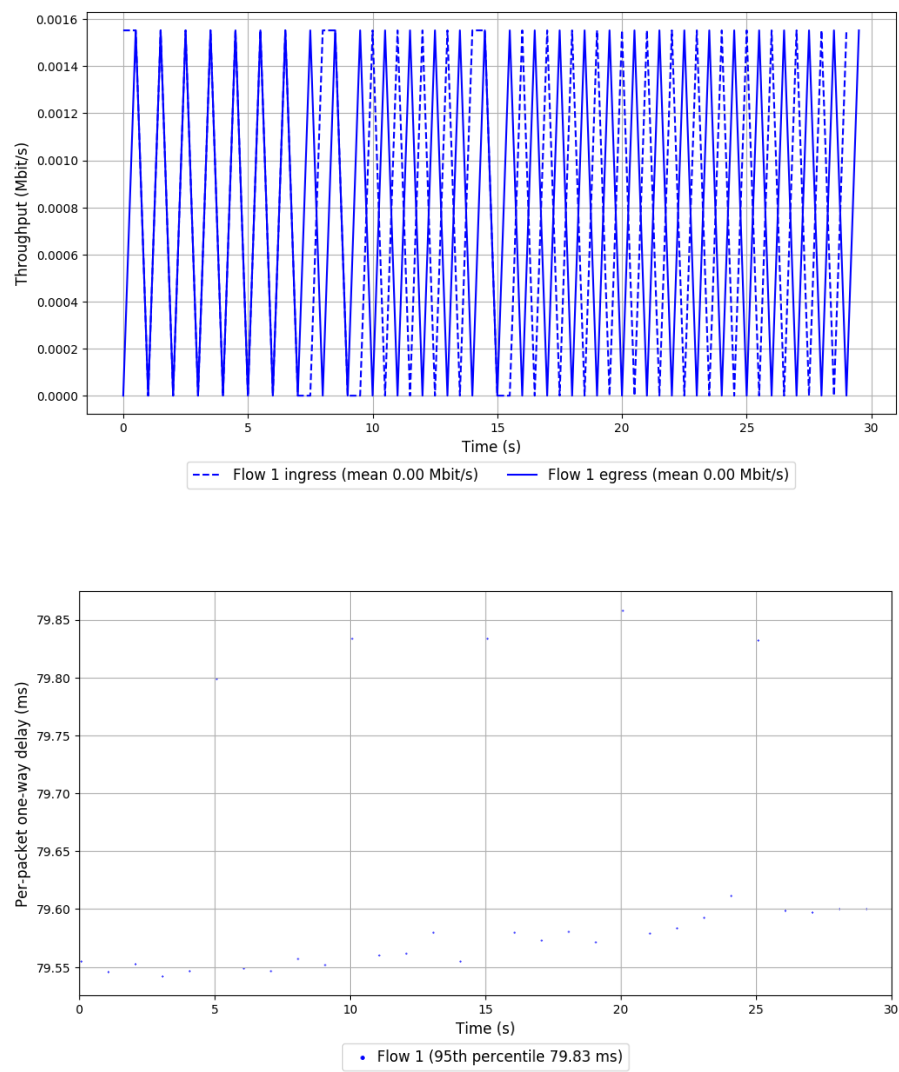
-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 79.834 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link

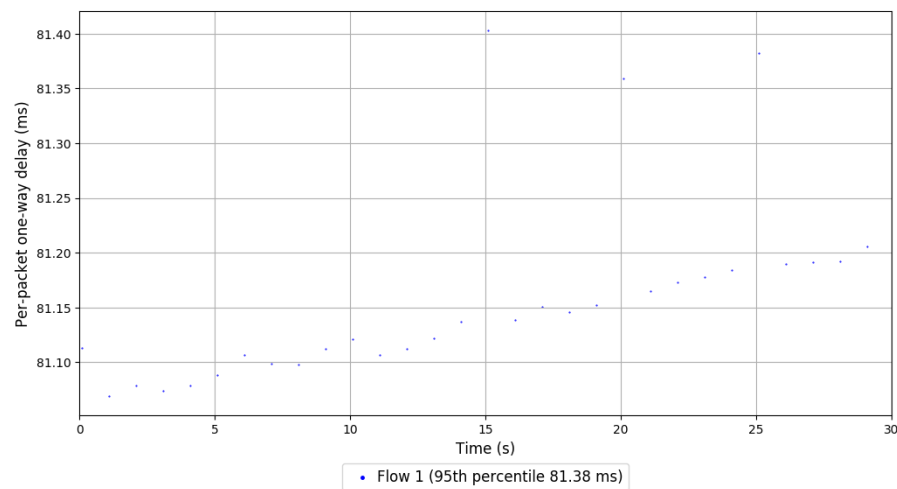
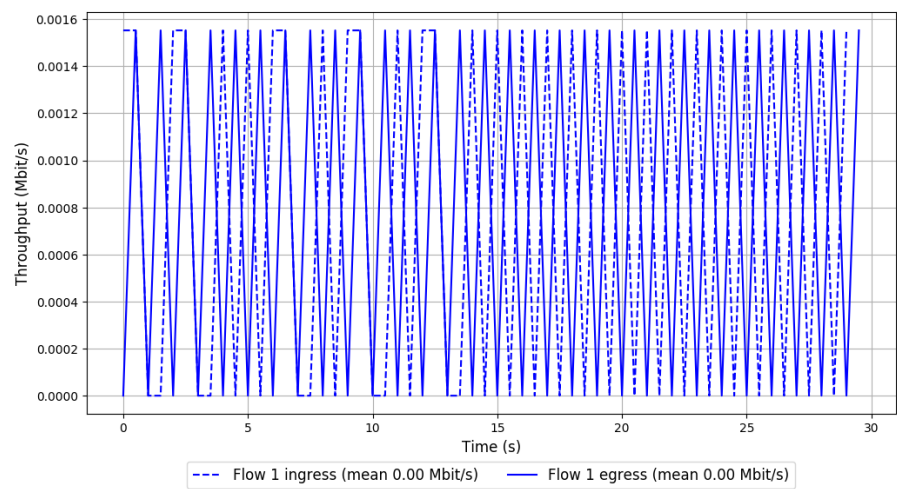


Run 10: Statistics of Verus

Start at: 2018-05-25 04:15:01
End at: 2018-05-25 04:15:31
Local clock offset: -3.173 ms
Remote clock offset: 12.866 ms

Below is generated by plot.py at 2018-05-25 04:42:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 81.382 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 81.382 ms
Loss rate: 0.00%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-05-25 01:40:22

End at: 2018-05-25 01:40:52

Local clock offset: -2.334 ms

Remote clock offset: 7.248 ms

Below is generated by plot.py at 2018-05-25 04:43:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.31 Mbit/s

95th percentile per-packet one-way delay: 91.185 ms

Loss rate: 0.76%

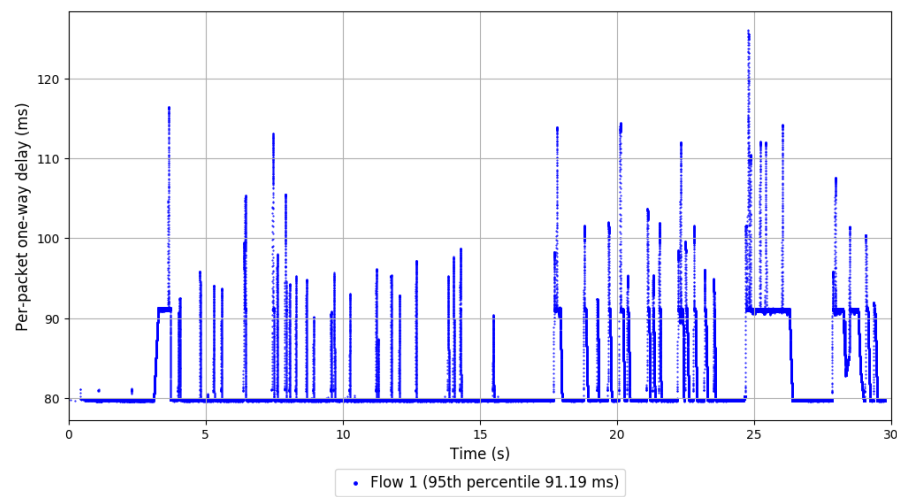
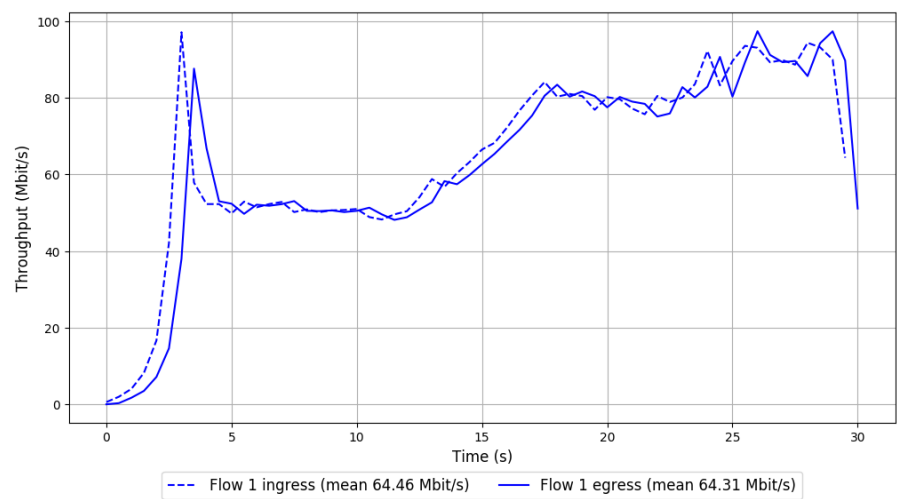
-- Flow 1:

Average throughput: 64.31 Mbit/s

95th percentile per-packet one-way delay: 91.185 ms

Loss rate: 0.76%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-05-25 01:58:44

End at: 2018-05-25 01:59:14

Local clock offset: -2.62 ms

Remote clock offset: 4.416 ms

Below is generated by plot.py at 2018-05-25 04:43:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.03 Mbit/s

95th percentile per-packet one-way delay: 94.608 ms

Loss rate: 0.51%

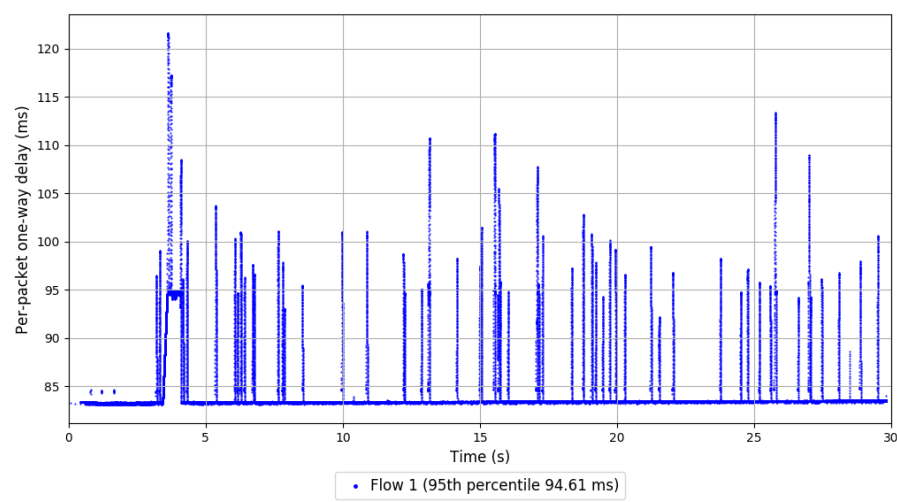
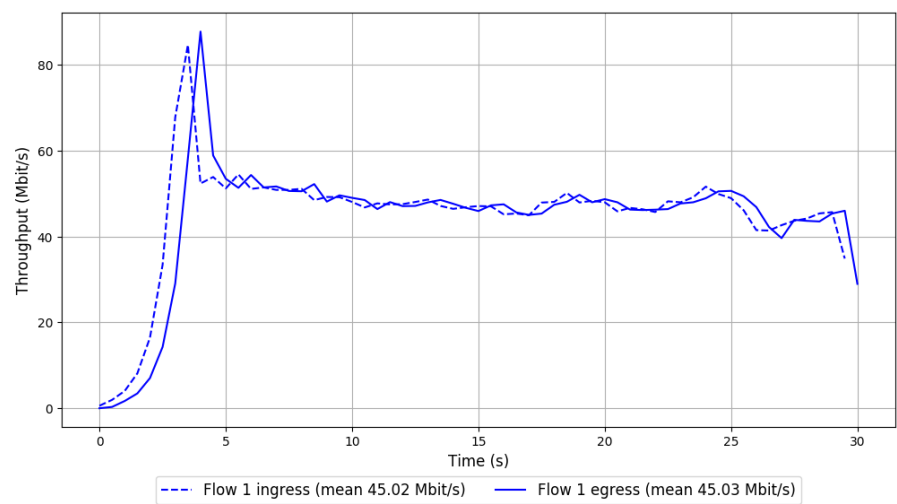
-- Flow 1:

Average throughput: 45.03 Mbit/s

95th percentile per-packet one-way delay: 94.608 ms

Loss rate: 0.51%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-05-25 02:17:07

End at: 2018-05-25 02:17:38

Local clock offset: -6.721 ms

Remote clock offset: 3.576 ms

Below is generated by plot.py at 2018-05-25 04:43:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.04 Mbit/s

95th percentile per-packet one-way delay: 86.631 ms

Loss rate: 0.71%

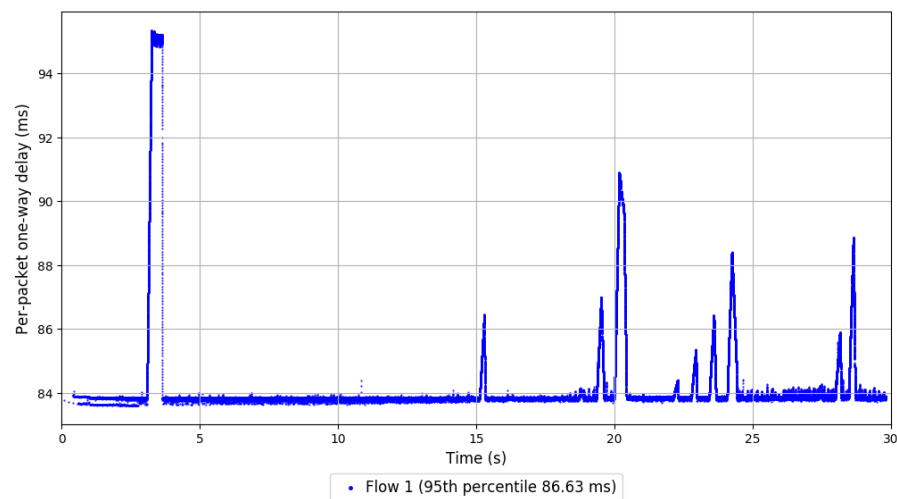
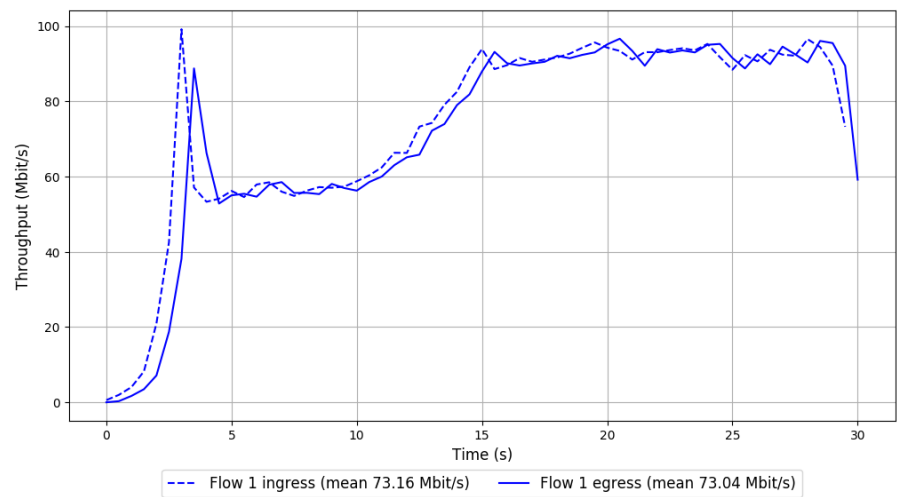
-- Flow 1:

Average throughput: 73.04 Mbit/s

95th percentile per-packet one-way delay: 86.631 ms

Loss rate: 0.71%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-05-25 02:35:36

End at: 2018-05-25 02:36:06

Local clock offset: -3.271 ms

Remote clock offset: 2.876 ms

Below is generated by plot.py at 2018-05-25 04:43:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.53 Mbit/s

95th percentile per-packet one-way delay: 93.791 ms

Loss rate: 0.69%

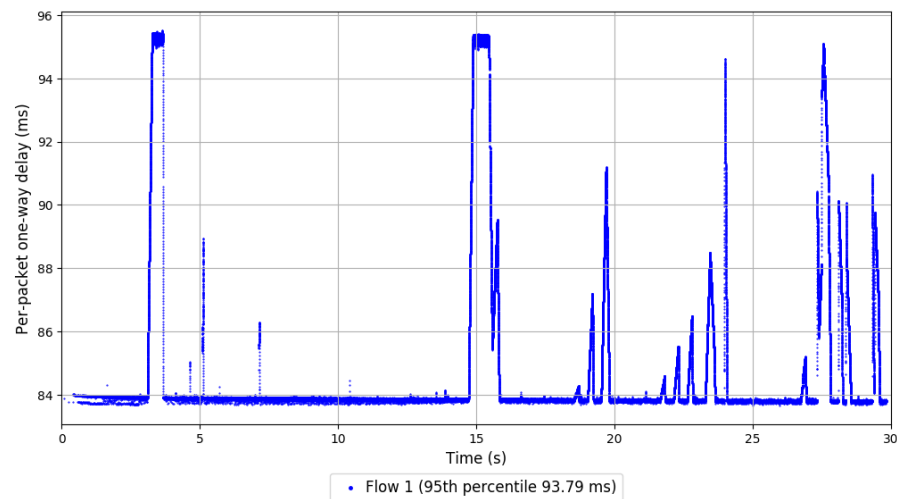
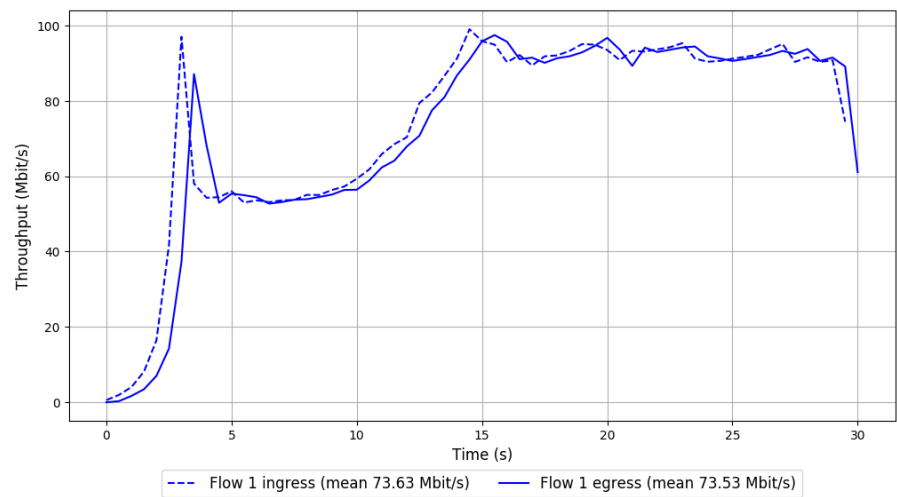
-- Flow 1:

Average throughput: 73.53 Mbit/s

95th percentile per-packet one-way delay: 93.791 ms

Loss rate: 0.69%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-05-25 02:54:03

End at: 2018-05-25 02:54:33

Local clock offset: -0.853 ms

Remote clock offset: 6.381 ms

Below is generated by plot.py at 2018-05-25 04:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.81 Mbit/s

95th percentile per-packet one-way delay: 91.646 ms

Loss rate: 0.76%

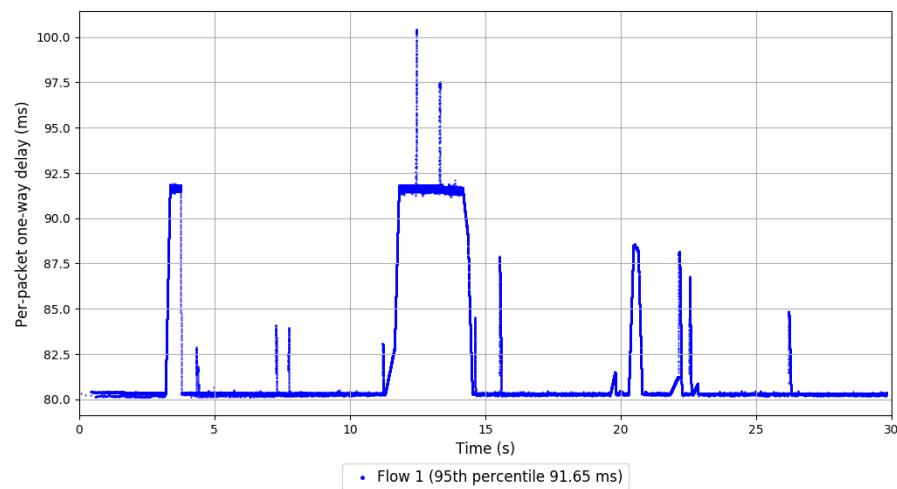
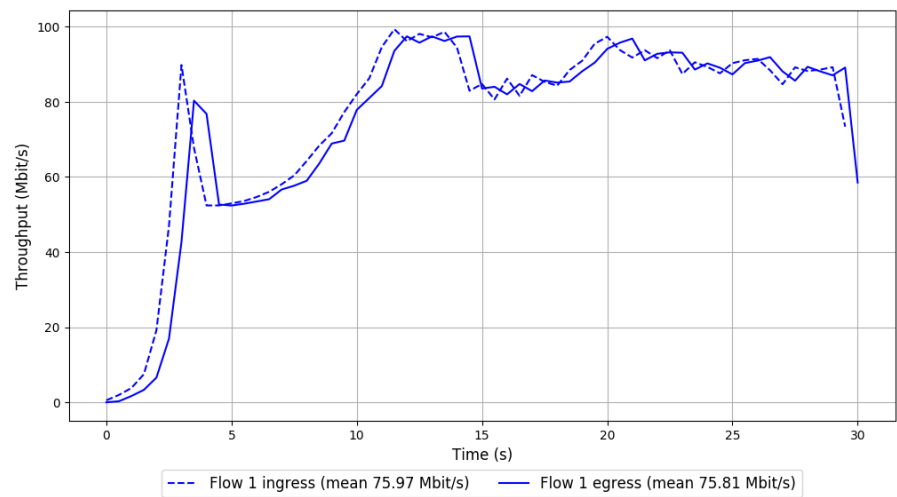
-- Flow 1:

Average throughput: 75.81 Mbit/s

95th percentile per-packet one-way delay: 91.646 ms

Loss rate: 0.76%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-05-25 03:12:31

End at: 2018-05-25 03:13:01

Local clock offset: -1.555 ms

Remote clock offset: 7.44 ms

Below is generated by plot.py at 2018-05-25 04:43:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.96 Mbit/s

95th percentile per-packet one-way delay: 81.349 ms

Loss rate: 0.64%

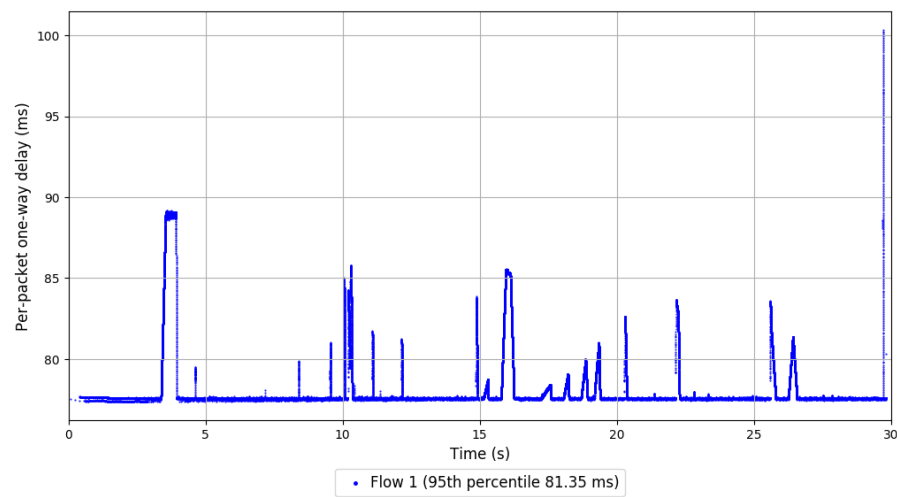
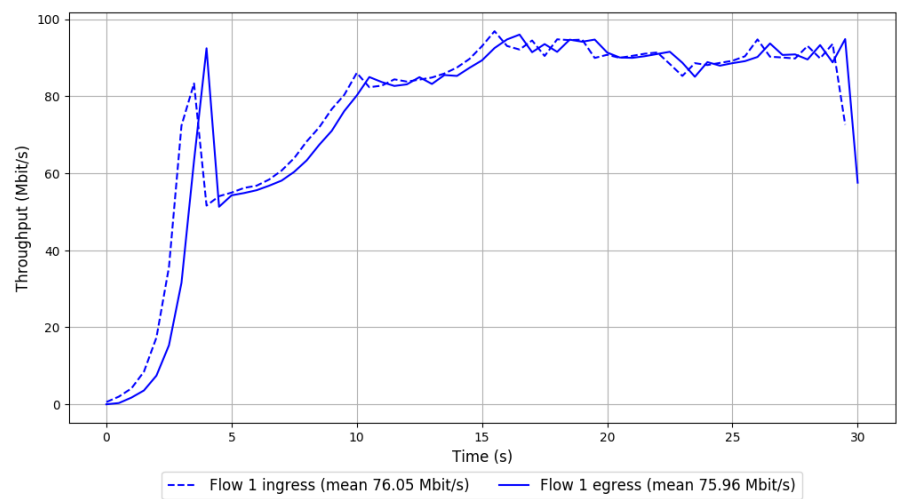
-- Flow 1:

Average throughput: 75.96 Mbit/s

95th percentile per-packet one-way delay: 81.349 ms

Loss rate: 0.64%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-05-25 03:30:59

End at: 2018-05-25 03:31:29

Local clock offset: -1.683 ms

Remote clock offset: 7.517 ms

Below is generated by plot.py at 2018-05-25 04:43:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.10 Mbit/s

95th percentile per-packet one-way delay: 84.738 ms

Loss rate: 0.65%

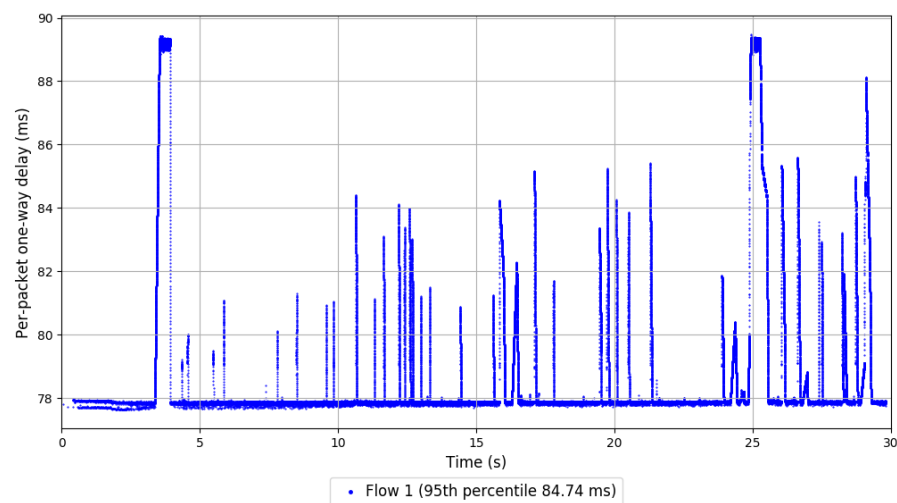
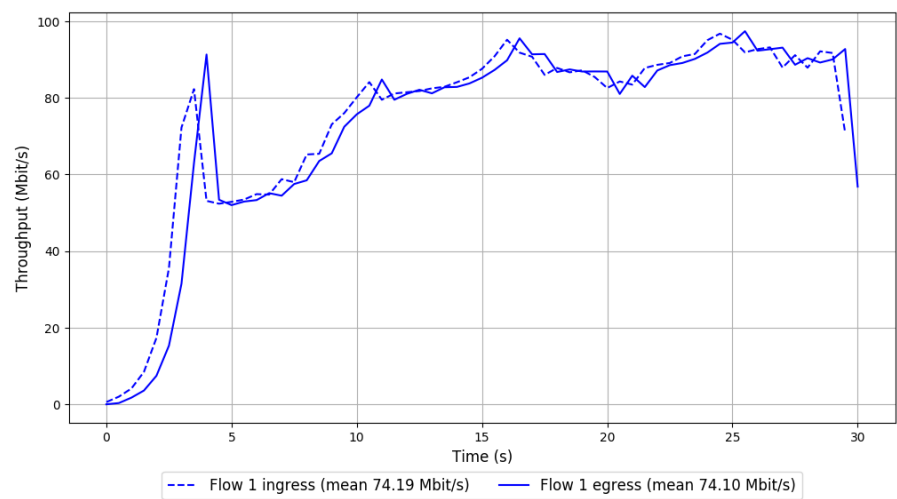
-- Flow 1:

Average throughput: 74.10 Mbit/s

95th percentile per-packet one-way delay: 84.738 ms

Loss rate: 0.65%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-05-25 03:49:28

End at: 2018-05-25 03:49:58

Local clock offset: -1.844 ms

Remote clock offset: 4.086 ms

Below is generated by plot.py at 2018-05-25 04:43:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.86 Mbit/s

95th percentile per-packet one-way delay: 92.468 ms

Loss rate: 0.71%

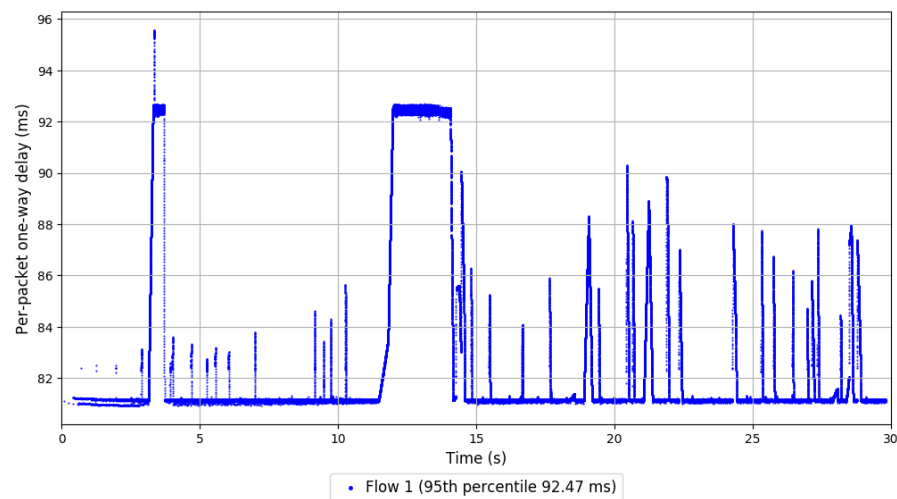
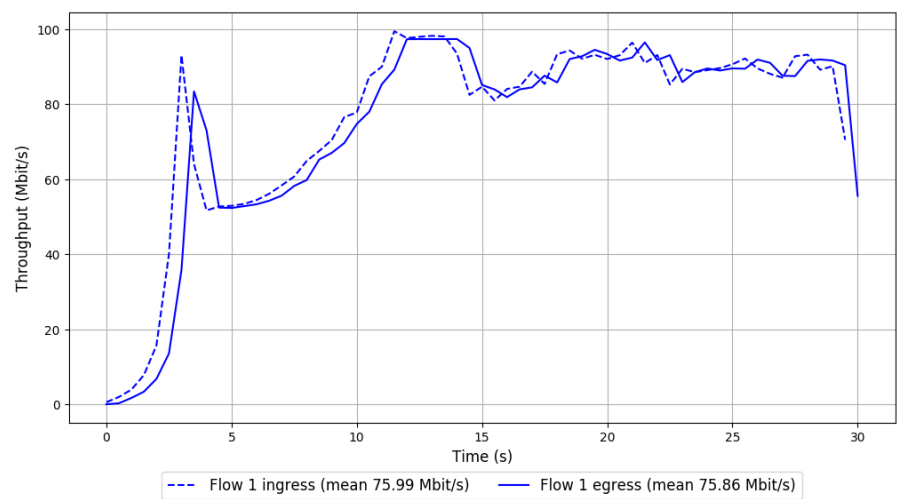
-- Flow 1:

Average throughput: 75.86 Mbit/s

95th percentile per-packet one-way delay: 92.468 ms

Loss rate: 0.71%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-05-25 04:08:01

End at: 2018-05-25 04:08:31

Local clock offset: -2.868 ms

Remote clock offset: 6.675 ms

Below is generated by plot.py at 2018-05-25 04:43:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.00 Mbit/s

95th percentile per-packet one-way delay: 94.895 ms

Loss rate: 0.66%

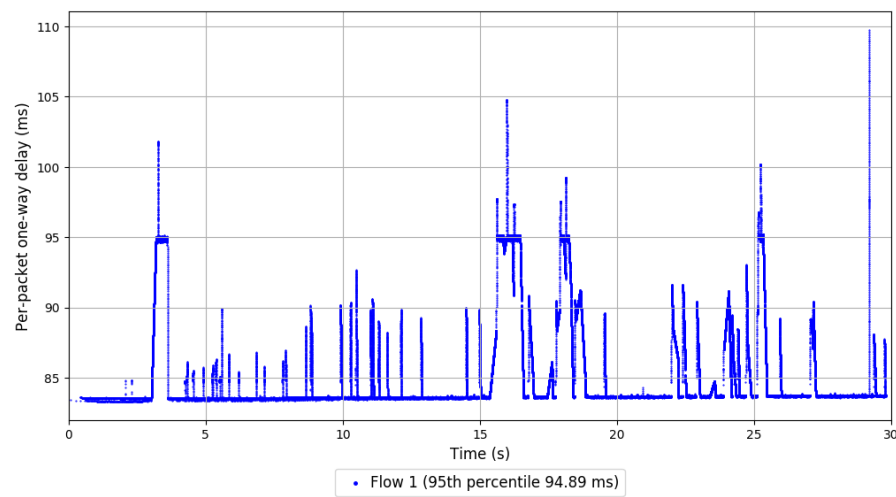
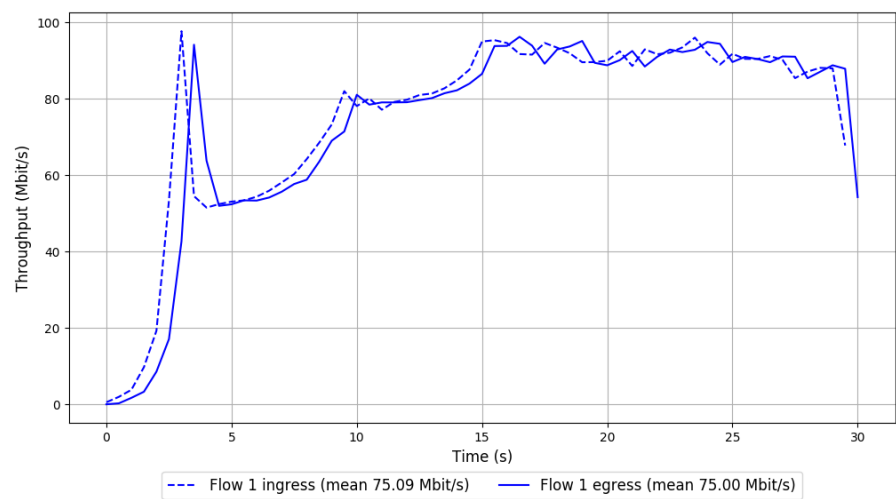
-- Flow 1:

Average throughput: 75.00 Mbit/s

95th percentile per-packet one-way delay: 94.895 ms

Loss rate: 0.66%

Run 9: Report of PCC-Vivace — Data Link

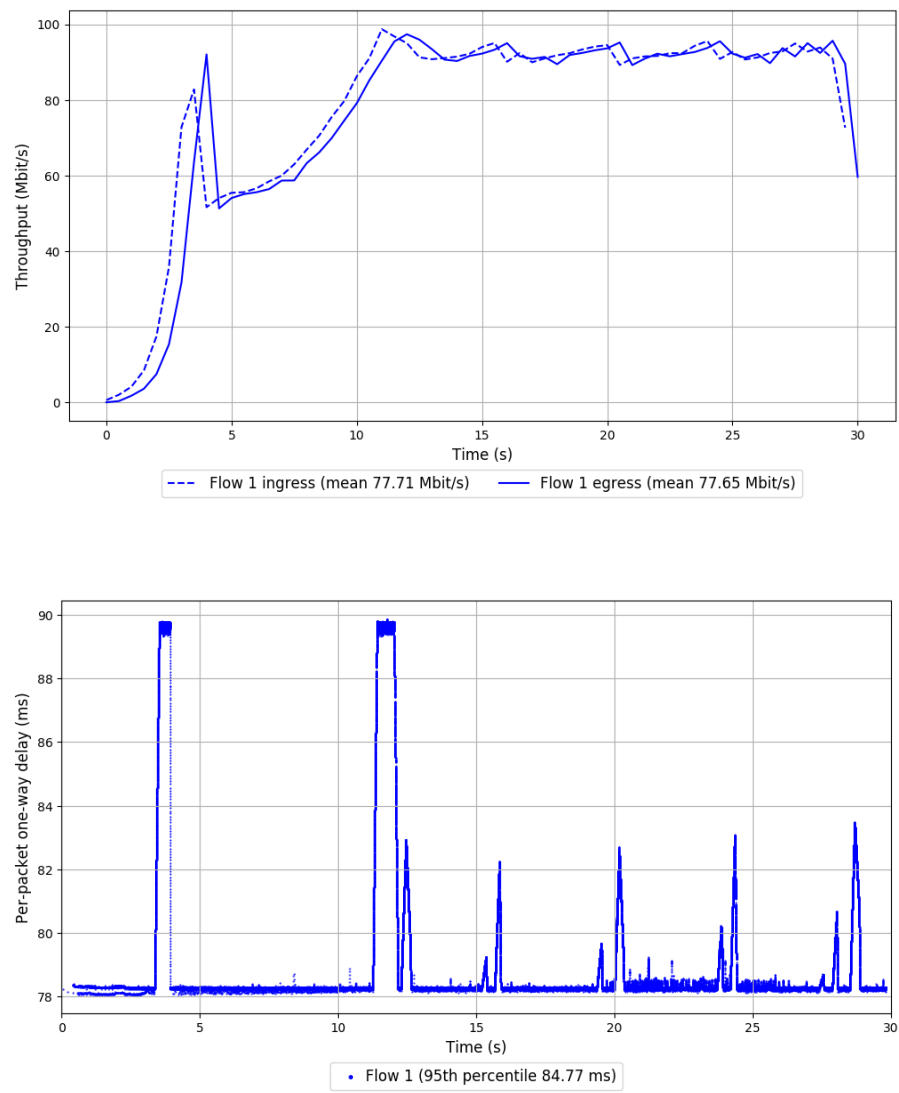


Run 10: Statistics of PCC-Vivace

Start at: 2018-05-25 04:26:30
End at: 2018-05-25 04:27:00
Local clock offset: -3.163 ms
Remote clock offset: 14.251 ms

Below is generated by plot.py at 2018-05-25 04:43:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.65 Mbit/s
95th percentile per-packet one-way delay: 84.767 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 77.65 Mbit/s
95th percentile per-packet one-way delay: 84.767 ms
Loss rate: 0.61%

Run 10: Report of PCC-Vivace — Data Link

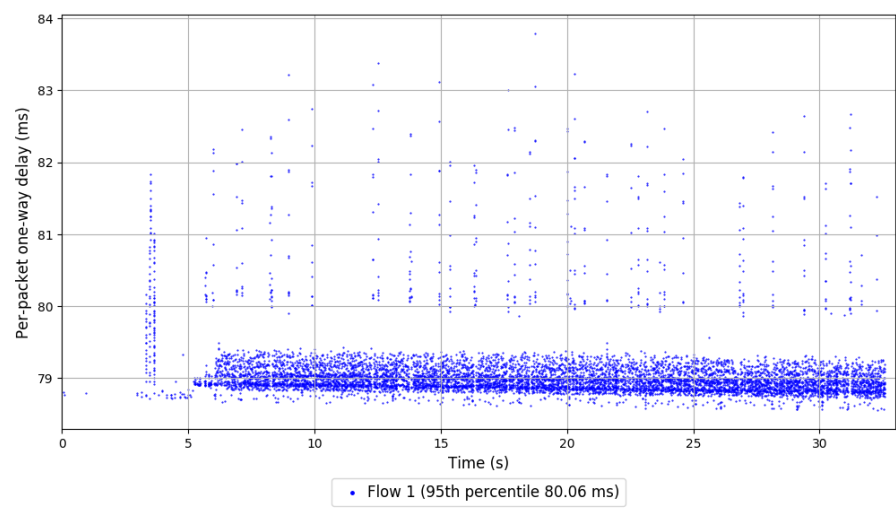
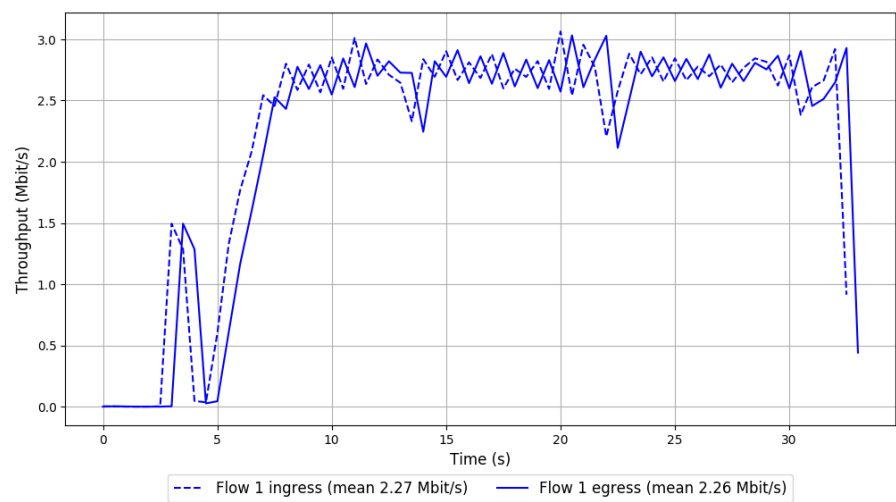


```
Run 1: Statistics of WebRTC media

Start at: 2018-05-25 01:33:32
End at: 2018-05-25 01:34:02
Local clock offset: -3.828 ms
Remote clock offset: 8.025 ms

# Below is generated by plot.py at 2018-05-25 04:43:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 80.065 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 80.065 ms
Loss rate: 0.62%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-05-25 01:51:55

End at: 2018-05-25 01:52:25

Local clock offset: -1.164 ms

Remote clock offset: 7.334 ms

Below is generated by plot.py at 2018-05-25 04:43:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 80.702 ms

Loss rate: 0.62%

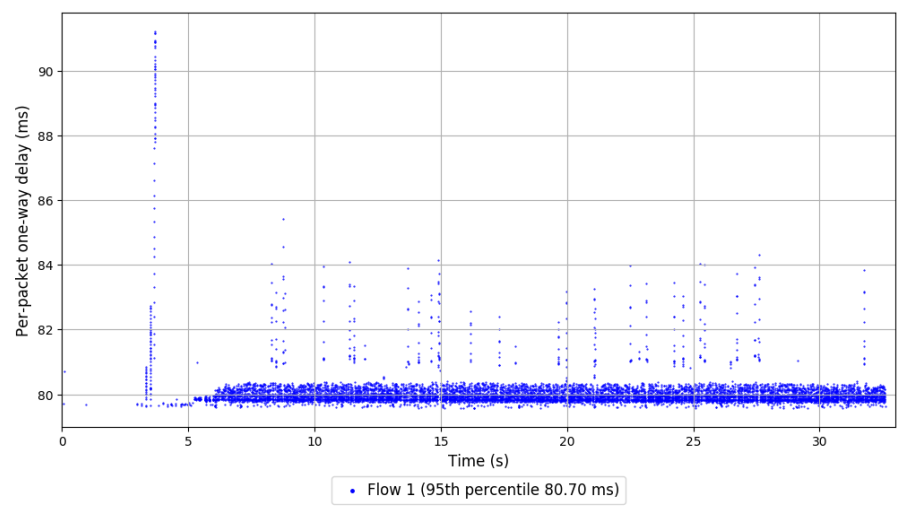
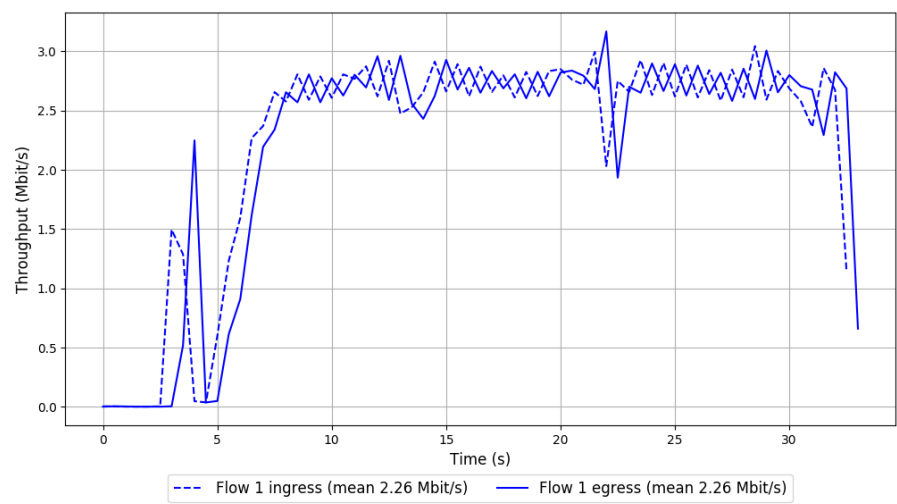
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 80.702 ms

Loss rate: 0.62%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-05-25 02:10:16

End at: 2018-05-25 02:10:46

Local clock offset: -5.976 ms

Remote clock offset: 4.328 ms

Below is generated by plot.py at 2018-05-25 04:43:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 84.057 ms

Loss rate: 0.63%

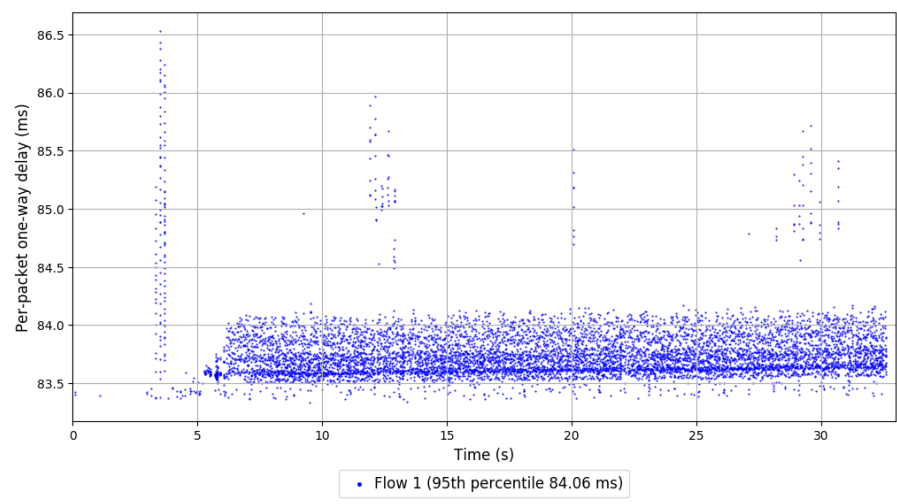
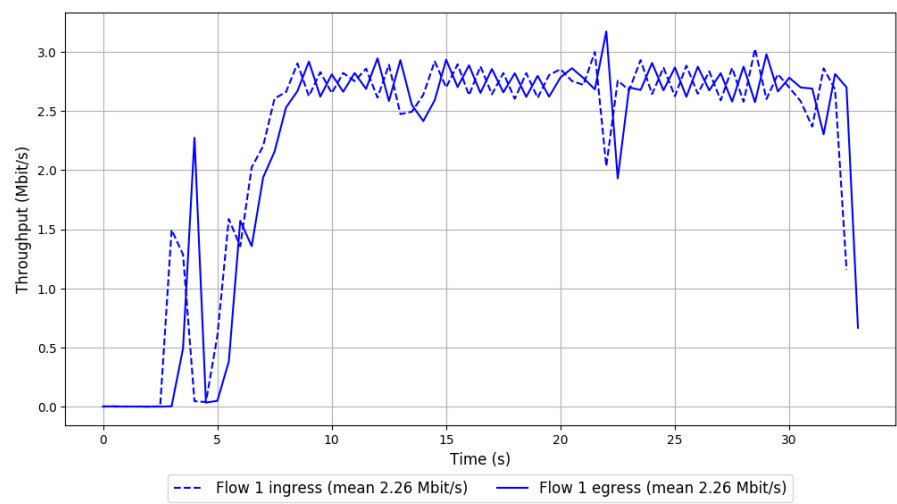
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 84.057 ms

Loss rate: 0.63%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-05-25 02:28:44

End at: 2018-05-25 02:29:14

Local clock offset: -5.535 ms

Remote clock offset: 3.914 ms

Below is generated by plot.py at 2018-05-25 04:43:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 81.695 ms

Loss rate: 0.50%

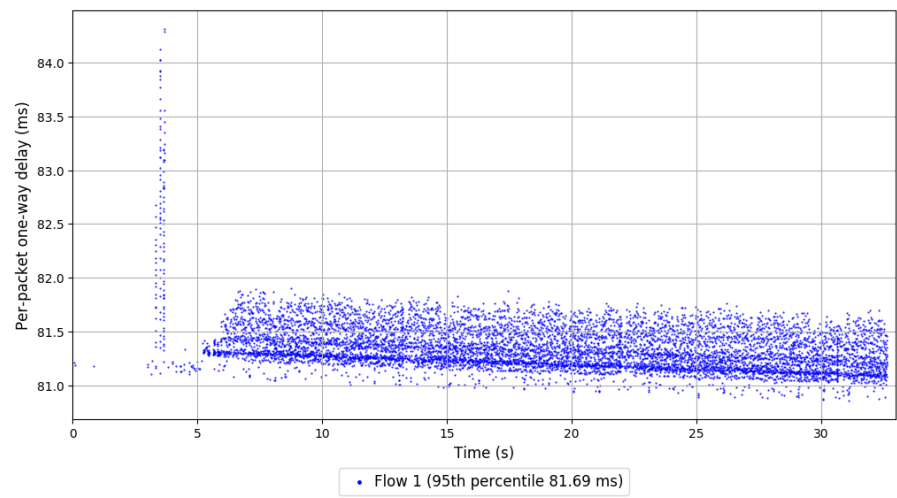
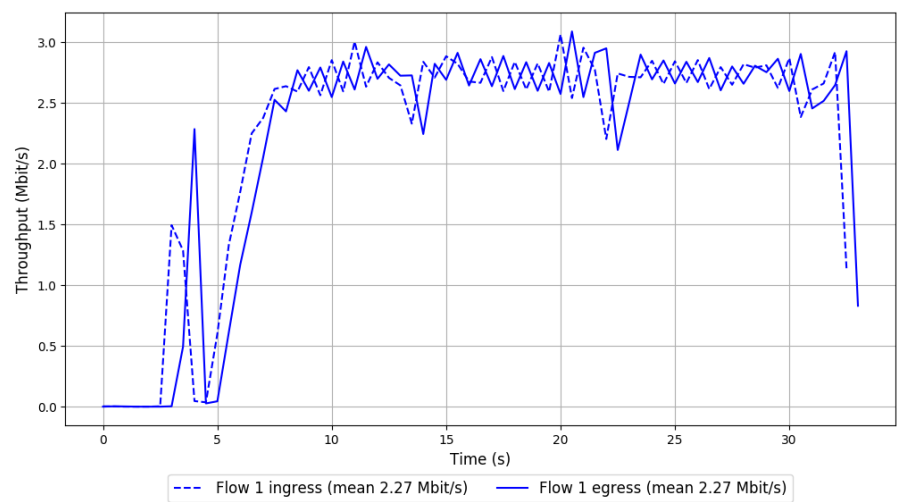
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 81.695 ms

Loss rate: 0.50%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-05-25 02:47:11

End at: 2018-05-25 02:47:41

Local clock offset: -1.439 ms

Remote clock offset: 3.701 ms

Below is generated by plot.py at 2018-05-25 04:43:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 83.709 ms

Loss rate: 0.67%

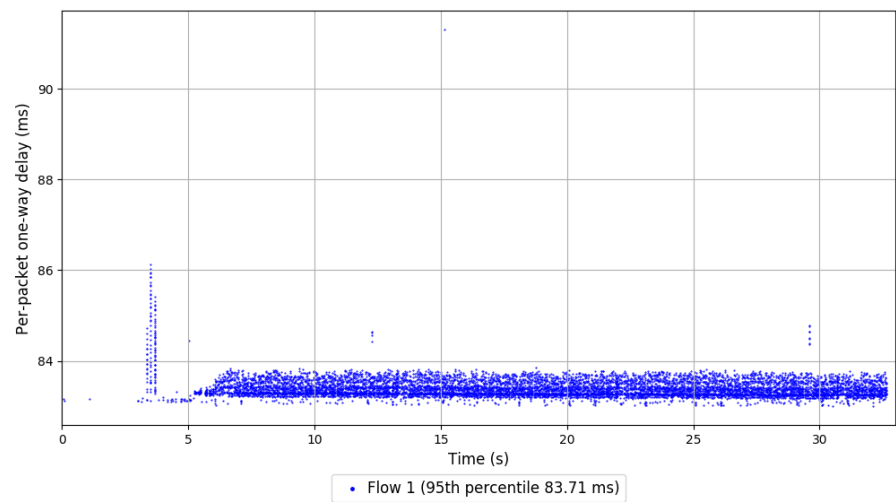
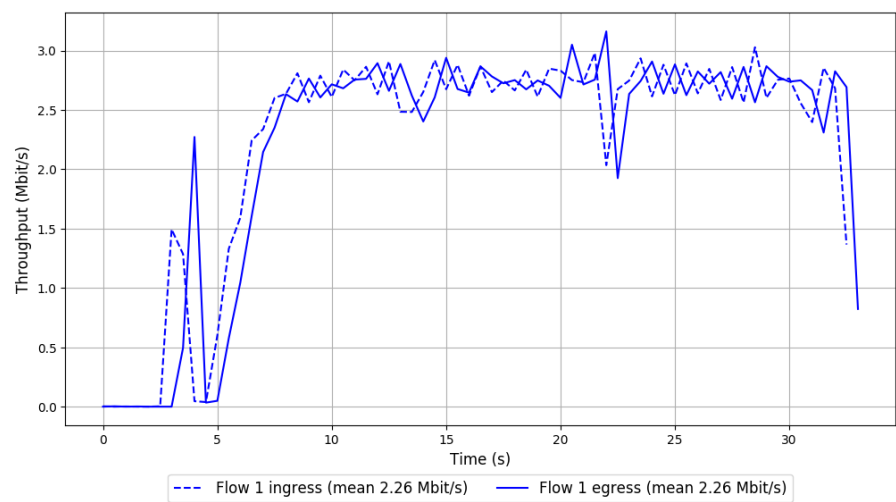
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 83.709 ms

Loss rate: 0.67%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-05-25 03:05:39

End at: 2018-05-25 03:06:09

Local clock offset: -1.532 ms

Remote clock offset: 6.549 ms

Below is generated by plot.py at 2018-05-25 04:43:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 81.005 ms

Loss rate: 0.62%

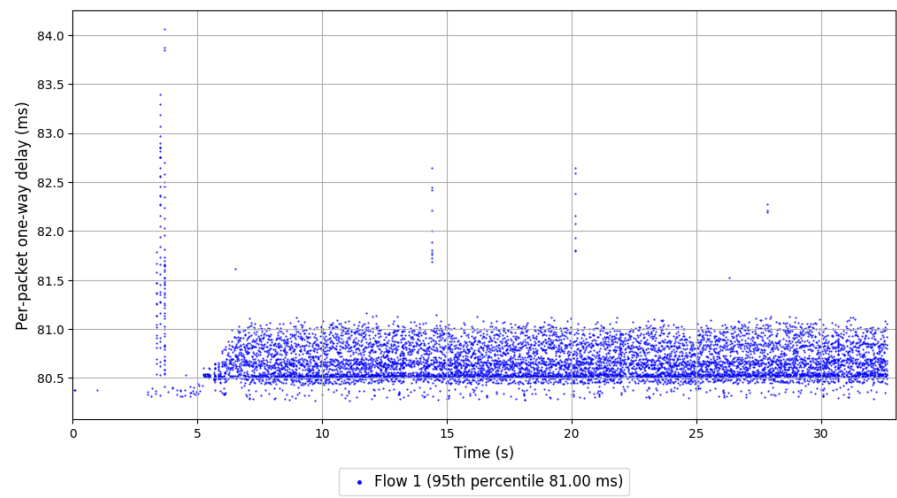
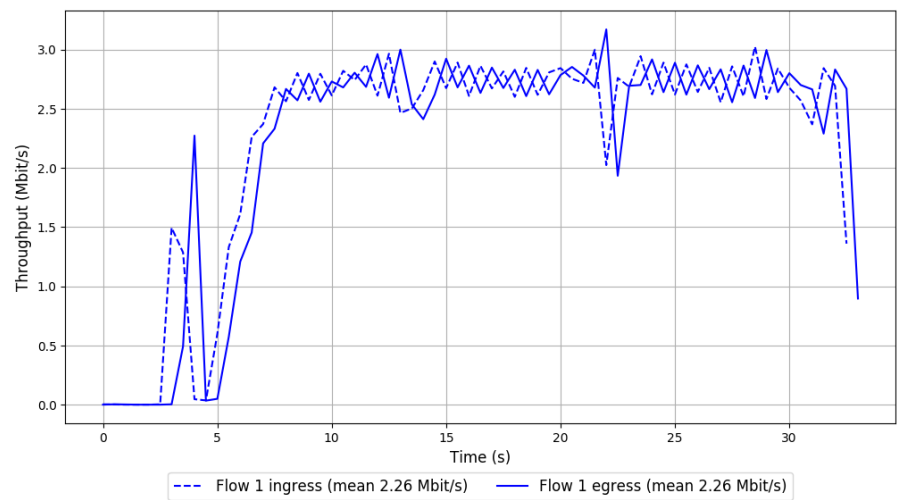
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 81.005 ms

Loss rate: 0.62%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-05-25 03:24:07

End at: 2018-05-25 03:24:37

Local clock offset: -1.397 ms

Remote clock offset: 8.255 ms

Below is generated by plot.py at 2018-05-25 04:43:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 77.277 ms

Loss rate: 0.61%

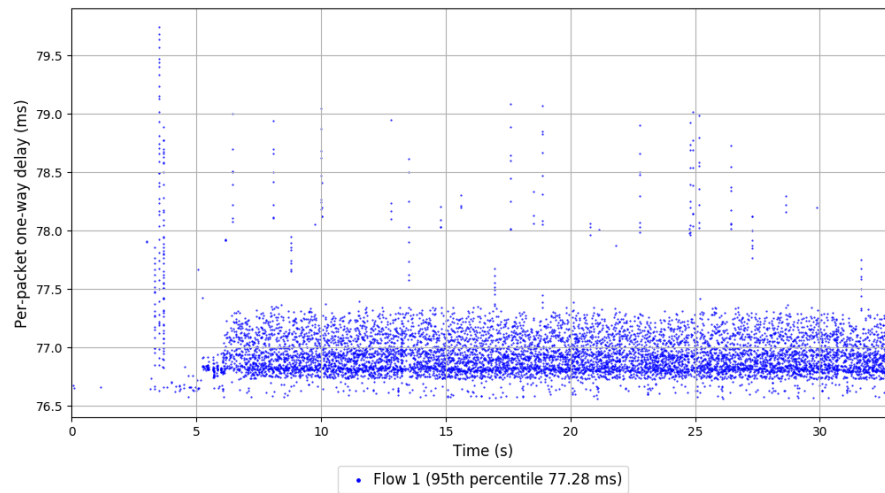
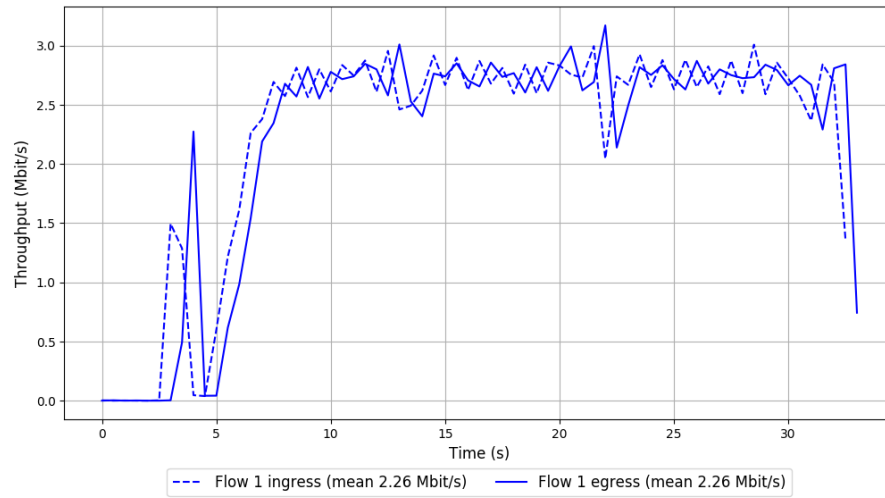
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 77.277 ms

Loss rate: 0.61%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-05-25 03:42:36

End at: 2018-05-25 03:43:06

Local clock offset: -1.913 ms

Remote clock offset: 6.97 ms

Below is generated by plot.py at 2018-05-25 04:43:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 80.784 ms

Loss rate: 0.62%

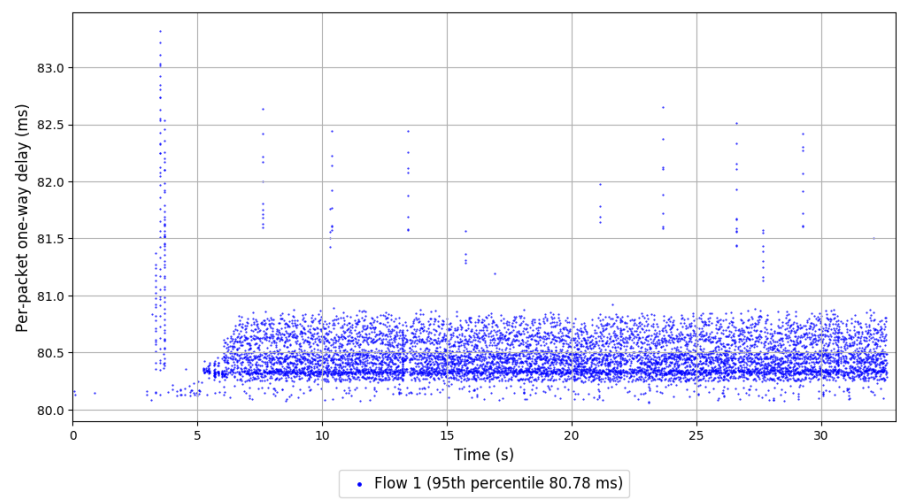
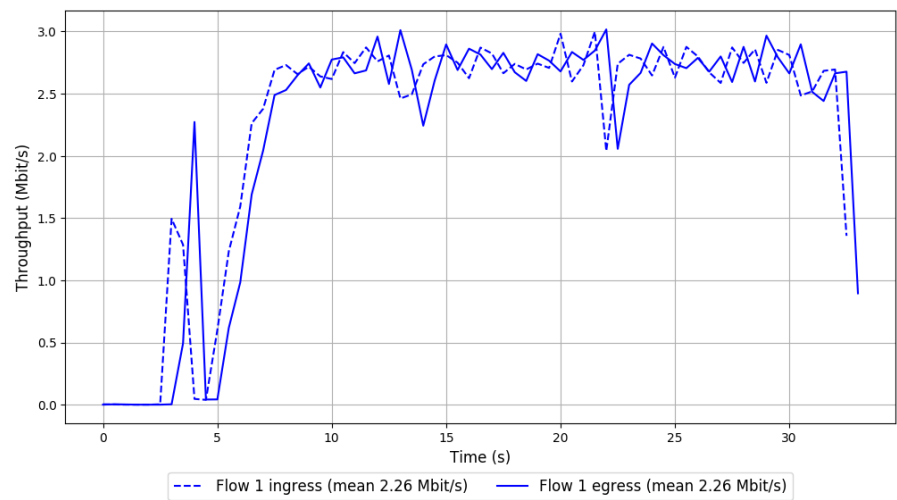
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 80.784 ms

Loss rate: 0.62%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-05-25 04:01:10

End at: 2018-05-25 04:01:40

Local clock offset: -2.443 ms

Remote clock offset: 8.733 ms

Below is generated by plot.py at 2018-05-25 04:43:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 77.301 ms

Loss rate: 0.60%

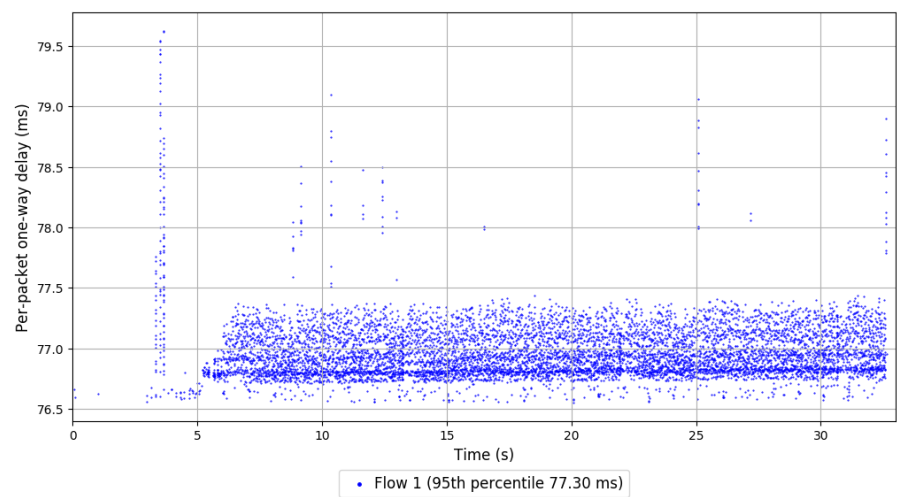
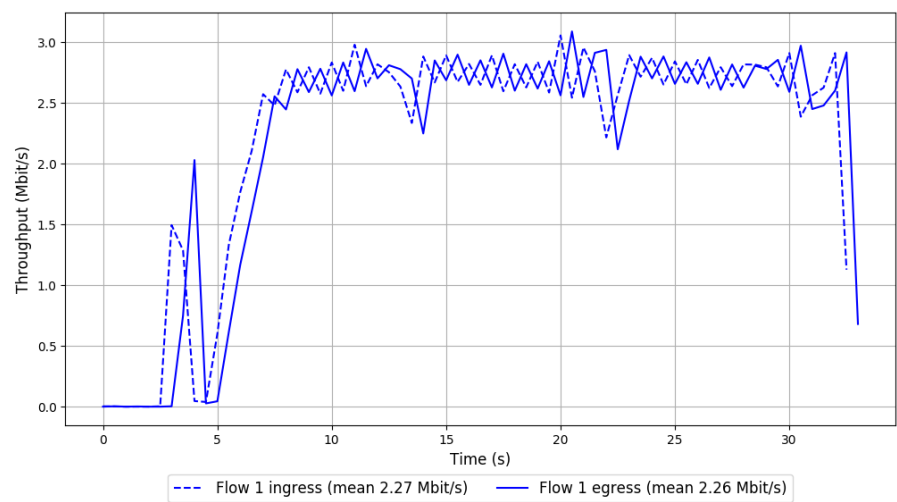
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 77.301 ms

Loss rate: 0.60%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-25 04:19:38

End at: 2018-05-25 04:20:08

Local clock offset: -3.187 ms

Remote clock offset: 9.324 ms

Below is generated by plot.py at 2018-05-25 04:43:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

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

Loss rate: 0.66%

-- Flow 1:

Average throughput: 2.26 Mbit/s

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

Loss rate: 0.66%

Run 10: Report of WebRTC media — Data Link

