

Pantheon Report

Generated at 2018-07-18 04:44:42 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

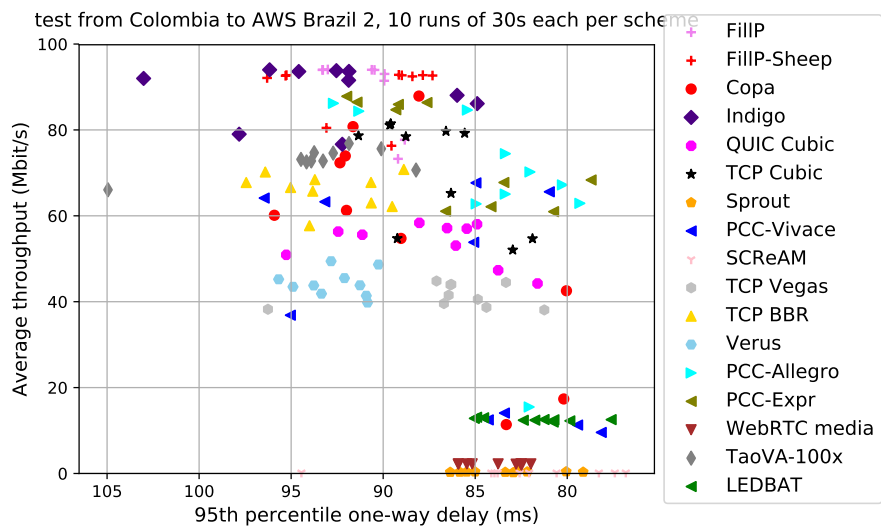
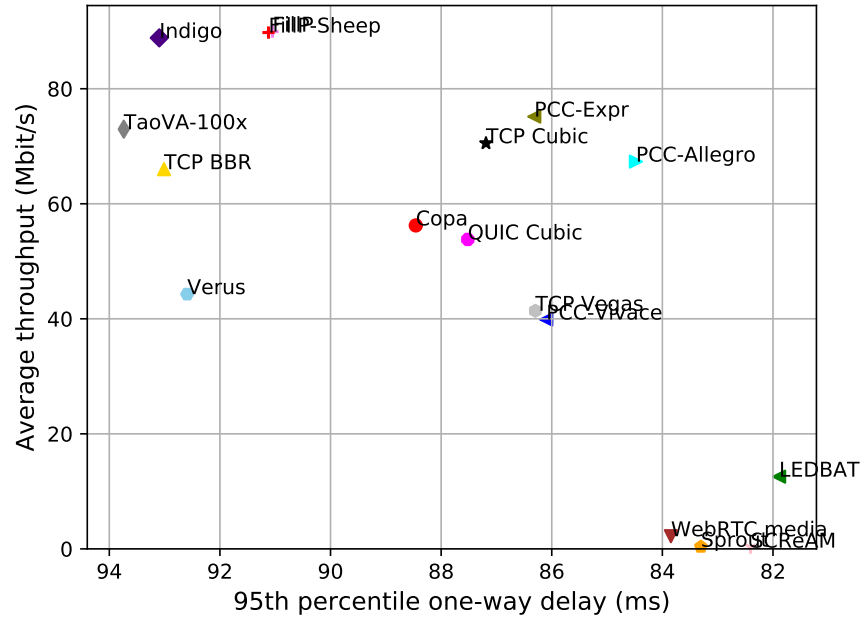
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

Git summary:

```
branch: master @ f7befc2d8410f41949e0ad8143a9aab40bab7edb
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from Colombia to AWS Brazil 2, 10 runs of 30s each per scheme
(mean of all runs by 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	66.02	93.01	2.28
Copa	10	56.24	88.46	3.13
TCP Cubic	10	70.53	87.19	0.63
FillP	10	89.93	91.05	2.95
FillP-Sheep	10	89.77	91.12	3.61
Indigo	10	88.84	93.10	2.49
LEDBAT	10	12.56	81.89	1.11
PCC-Allegro	10	67.33	84.48	0.81
PCC-Expr	10	75.16	86.32	1.35
QUIC Cubic	10	53.80	87.52	0.96
SCReAM	10	0.22	82.40	0.59
Sprout	10	0.37	83.30	0.60
TaoVA-100x	10	72.97	93.74	0.57
TCP Vegas	10	41.39	86.30	0.65
Verus	10	44.29	92.59	1.53
PCC-Vivace	10	39.87	86.10	1.07
WebRTC media	10	2.20	83.85	0.33

Run 1: Statistics of TCP BBR

Start at: 2018-07-18 01:13:59

End at: 2018-07-18 01:14:29

Local clock offset: -2.282 ms

Remote clock offset: 8.899 ms

Below is generated by plot.py at 2018-07-18 04:28:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.60 Mbit/s

95th percentile per-packet one-way delay: 95.030 ms

Loss rate: 1.08%

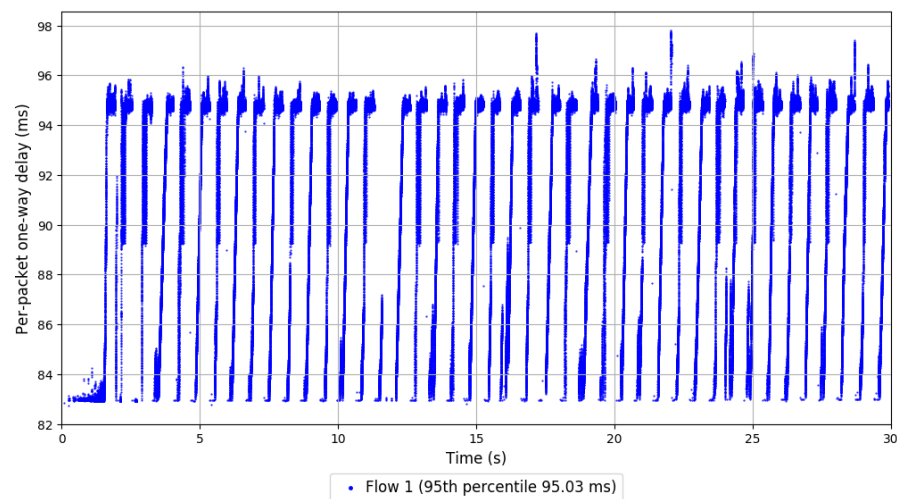
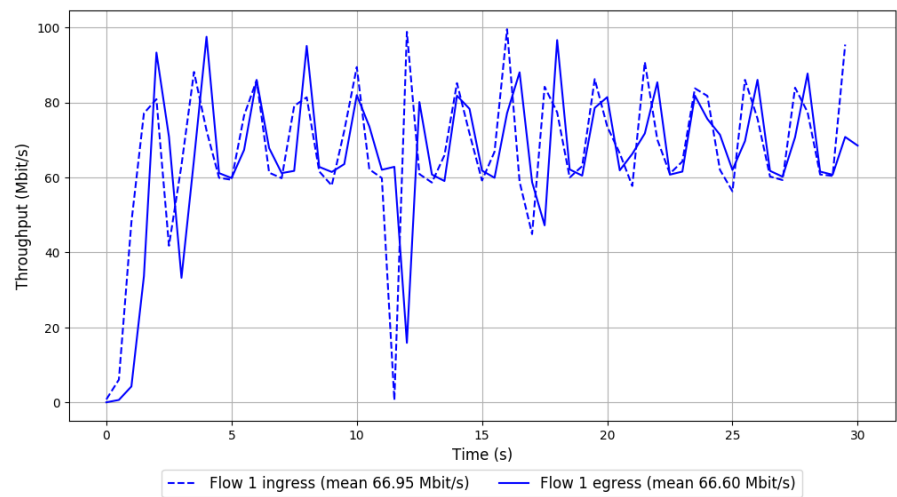
-- Flow 1:

Average throughput: 66.60 Mbit/s

95th percentile per-packet one-way delay: 95.030 ms

Loss rate: 1.08%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-07-18 01:33:42

End at: 2018-07-18 01:34:12

Local clock offset: -2.382 ms

Remote clock offset: 6.971 ms

Below is generated by plot.py at 2018-07-18 04:28:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.70 Mbit/s

95th percentile per-packet one-way delay: 94.002 ms

Loss rate: 8.99%

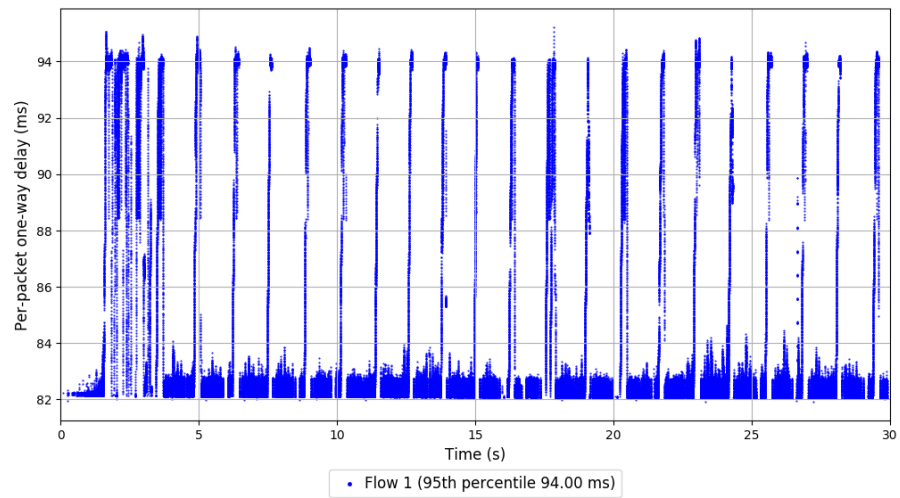
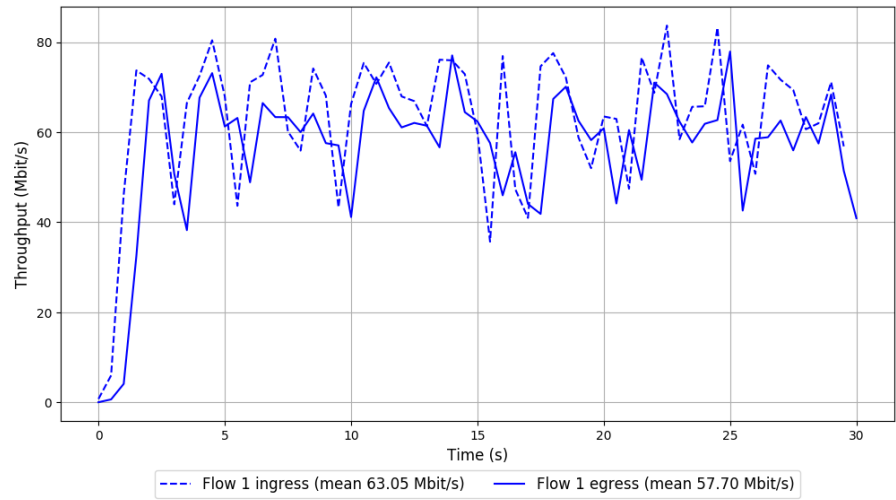
-- Flow 1:

Average throughput: 57.70 Mbit/s

95th percentile per-packet one-way delay: 94.002 ms

Loss rate: 8.99%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-07-18 01:53:28

End at: 2018-07-18 01:53:58

Local clock offset: -2.306 ms

Remote clock offset: 4.291 ms

Below is generated by plot.py at 2018-07-18 04:28:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.76 Mbit/s

95th percentile per-packet one-way delay: 97.440 ms

Loss rate: 1.00%

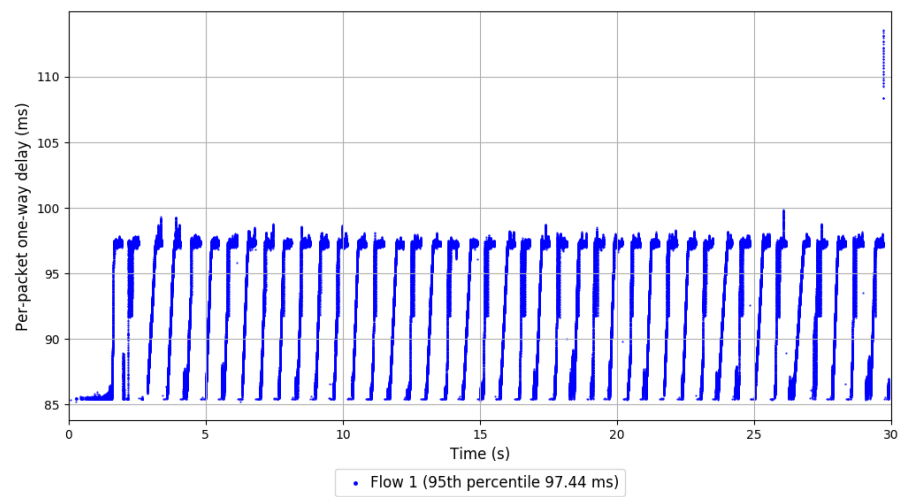
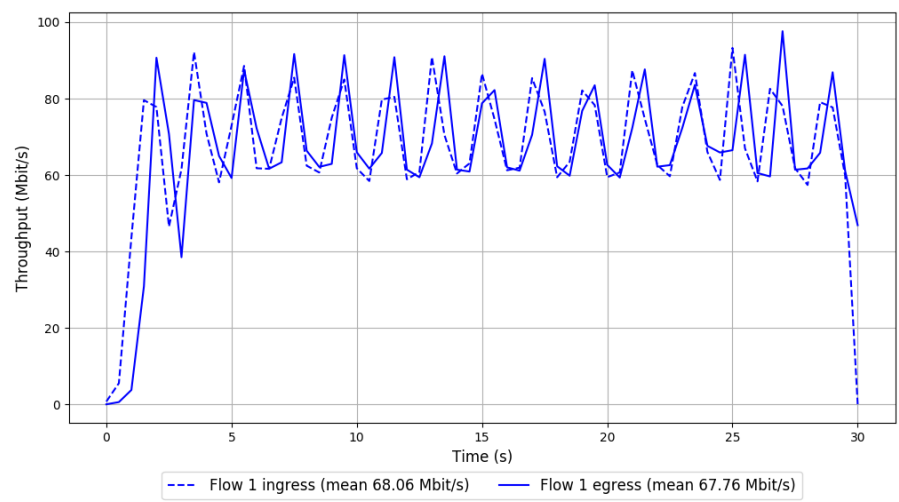
-- Flow 1:

Average throughput: 67.76 Mbit/s

95th percentile per-packet one-way delay: 97.440 ms

Loss rate: 1.00%

Run 3: Report of TCP BBR — Data Link

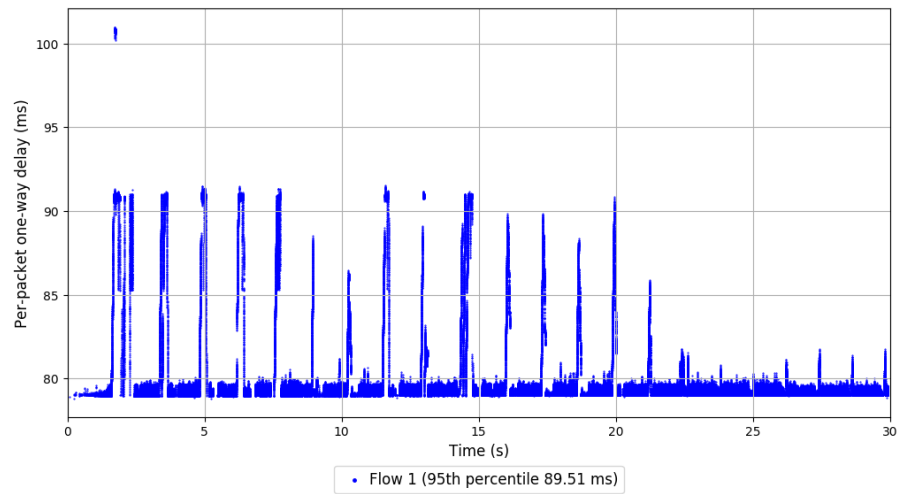
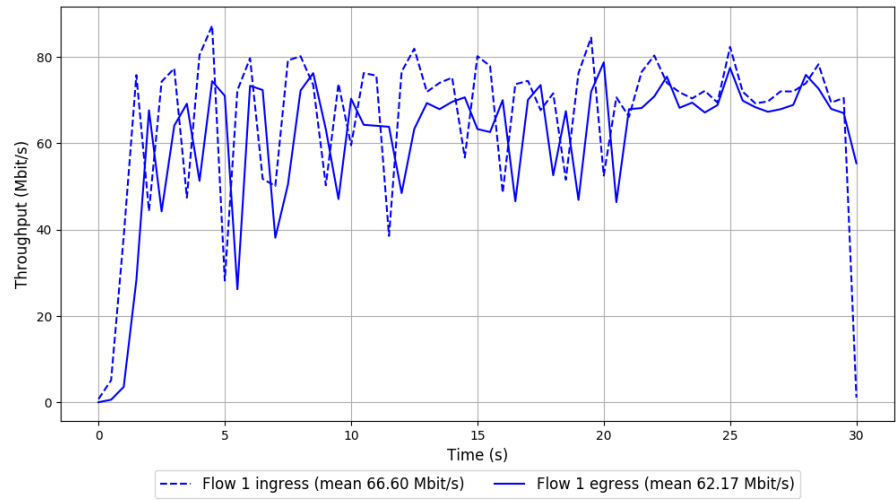


Run 4: Statistics of TCP BBR

Start at: 2018-07-18 02:13:11
End at: 2018-07-18 02:13:41
Local clock offset: -2.573 ms
Remote clock offset: 10.578 ms

Below is generated by plot.py at 2018-07-18 04:28:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 62.17 Mbit/s
95th percentile per-packet one-way delay: 89.511 ms
Loss rate: 7.19%
-- Flow 1:
Average throughput: 62.17 Mbit/s
95th percentile per-packet one-way delay: 89.511 ms
Loss rate: 7.19%

Run 4: Report of TCP BBR — Data Link

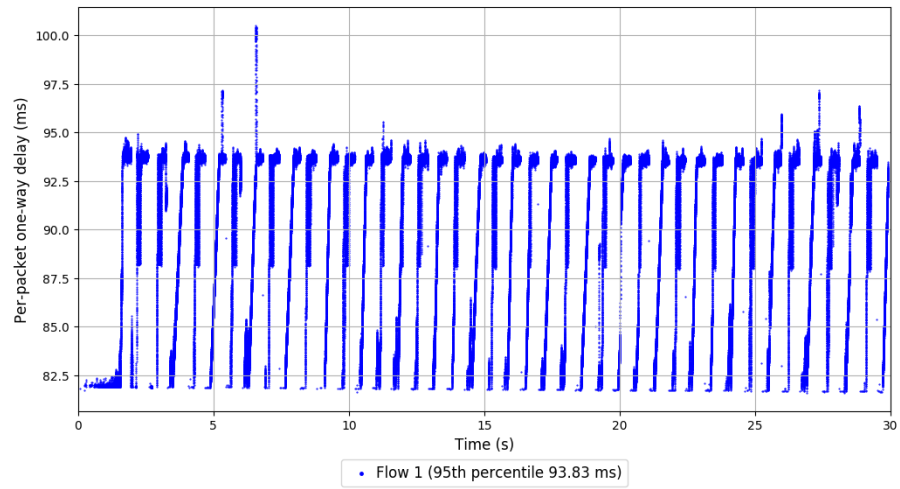
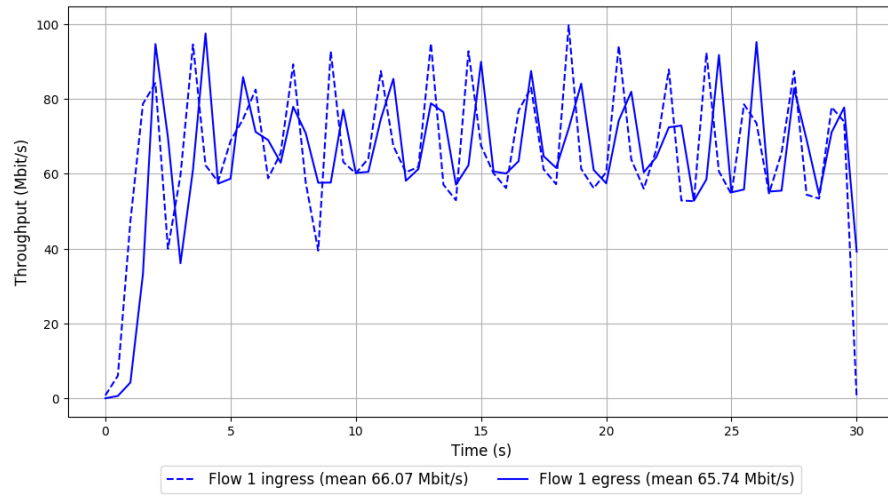


Run 5: Statistics of TCP BBR

Start at: 2018-07-18 02:32:59
End at: 2018-07-18 02:33:29
Local clock offset: -2.635 ms
Remote clock offset: 10.559 ms

Below is generated by plot.py at 2018-07-18 04:28:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 65.74 Mbit/s
95th percentile per-packet one-way delay: 93.826 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 65.74 Mbit/s
95th percentile per-packet one-way delay: 93.826 ms
Loss rate: 1.07%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-07-18 02:52:46

End at: 2018-07-18 02:53:16

Local clock offset: -2.592 ms

Remote clock offset: 6.315 ms

Below is generated by plot.py at 2018-07-18 04:28:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.00 Mbit/s

95th percentile per-packet one-way delay: 90.646 ms

Loss rate: 1.09%

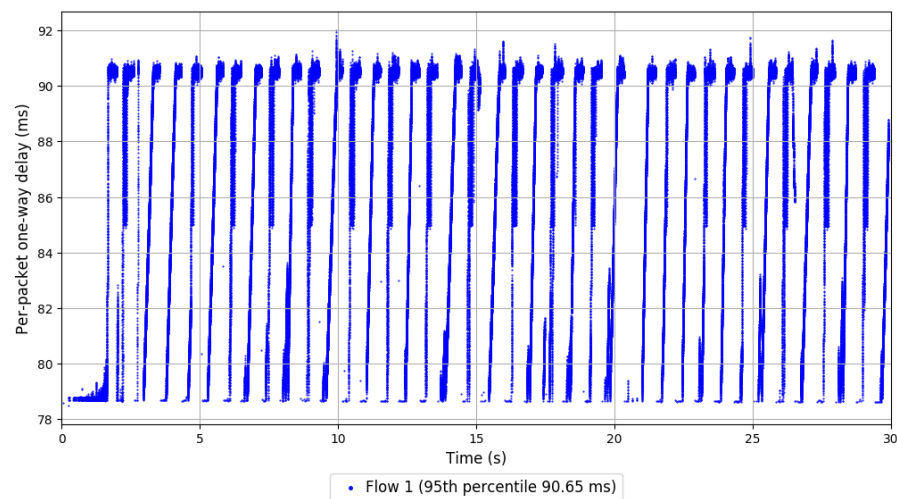
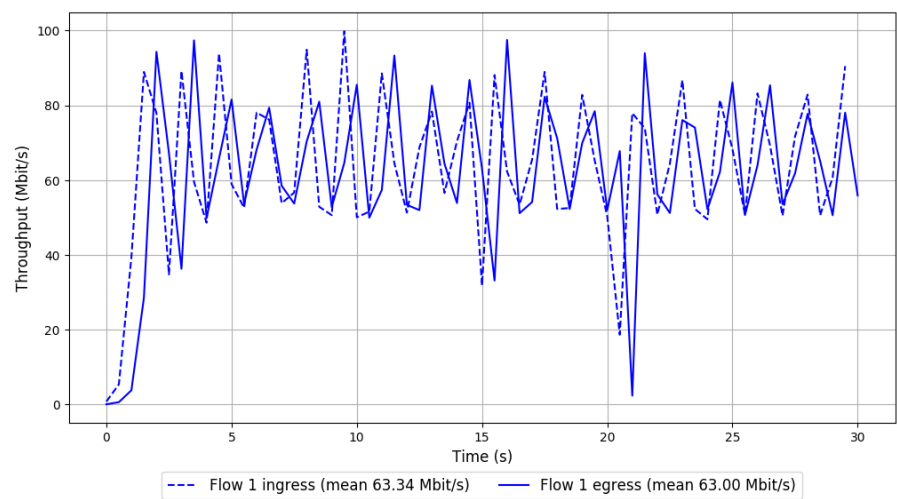
-- Flow 1:

Average throughput: 63.00 Mbit/s

95th percentile per-packet one-way delay: 90.646 ms

Loss rate: 1.09%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-07-18 03:12:41

End at: 2018-07-18 03:13:11

Local clock offset: -3.051 ms

Remote clock offset: 6.046 ms

Below is generated by plot.py at 2018-07-18 04:28:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.77 Mbit/s

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

Loss rate: 0.26%

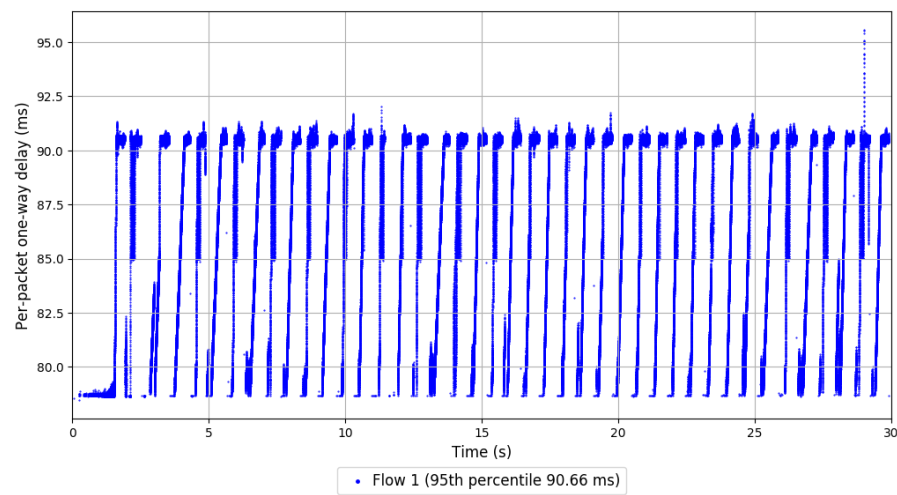
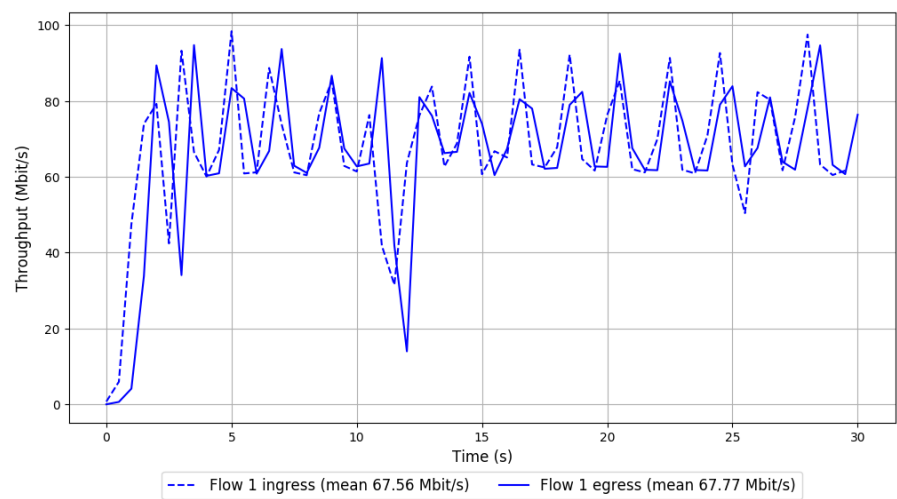
-- Flow 1:

Average throughput: 67.77 Mbit/s

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

Loss rate: 0.26%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-07-18 03:32:34

End at: 2018-07-18 03:33:04

Local clock offset: -2.8 ms

Remote clock offset: 7.949 ms

Below is generated by plot.py at 2018-07-18 04:28:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.80 Mbit/s

95th percentile per-packet one-way delay: 88.878 ms

Loss rate: 0.57%

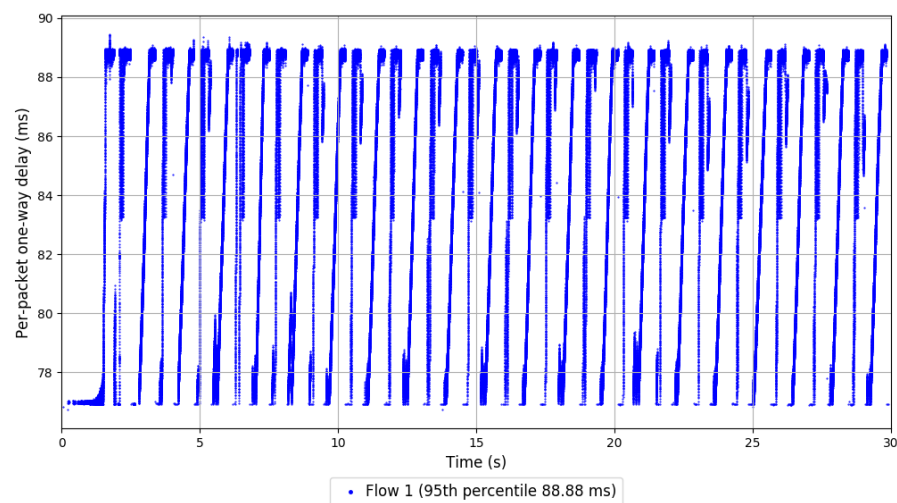
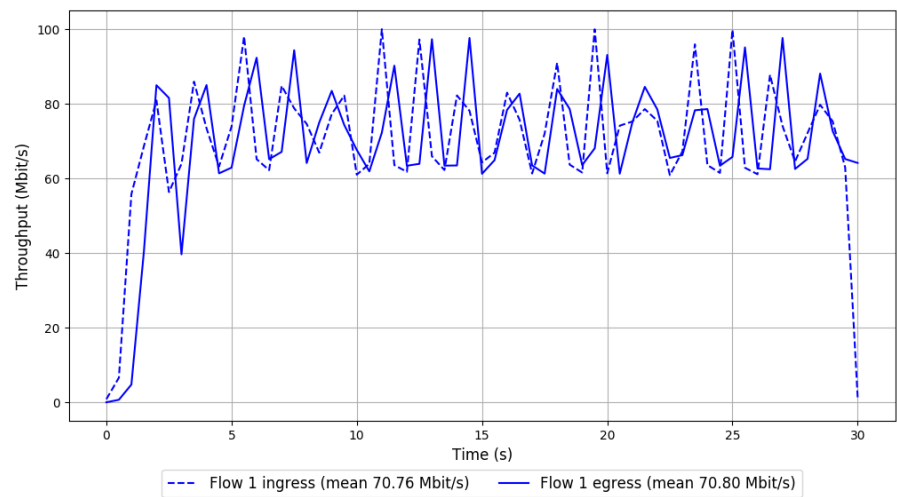
-- Flow 1:

Average throughput: 70.80 Mbit/s

95th percentile per-packet one-way delay: 88.878 ms

Loss rate: 0.57%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-18 03:52:24

End at: 2018-07-18 03:52:54

Local clock offset: -2.499 ms

Remote clock offset: 4.25 ms

Below is generated by plot.py at 2018-07-18 04:29:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.20 Mbit/s

95th percentile per-packet one-way delay: 96.404 ms

Loss rate: 0.58%

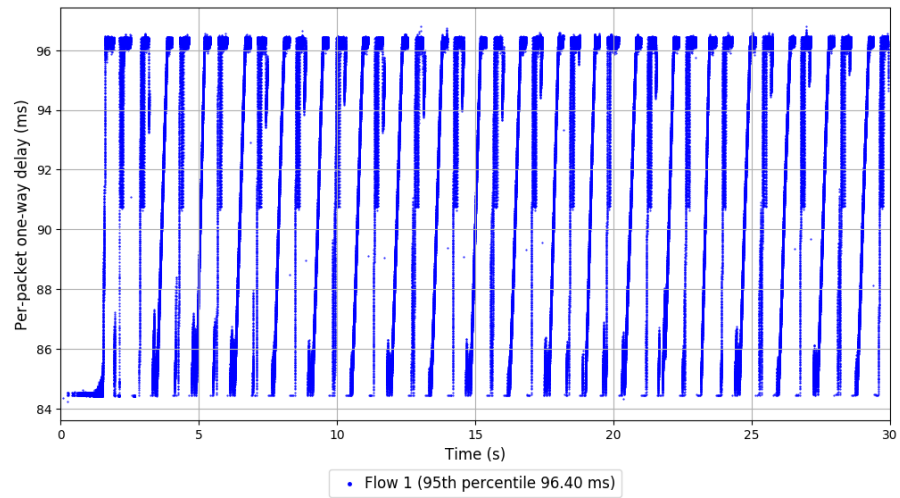
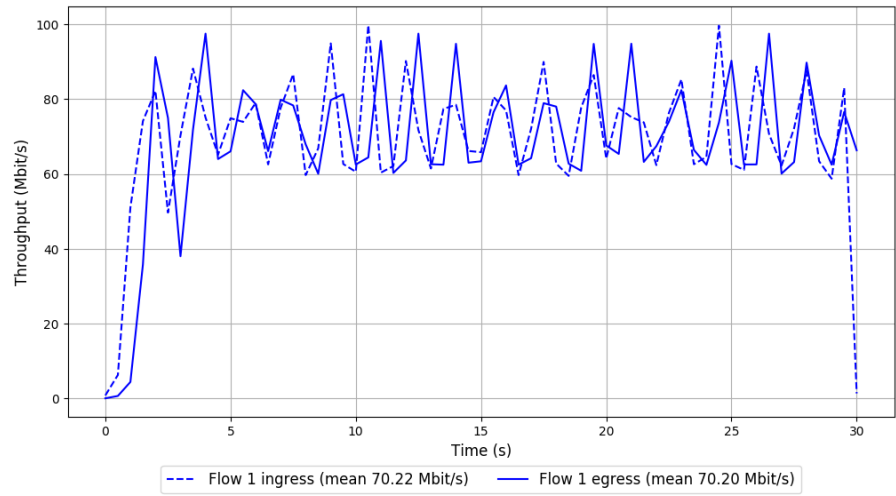
-- Flow 1:

Average throughput: 70.20 Mbit/s

95th percentile per-packet one-way delay: 96.404 ms

Loss rate: 0.58%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-07-18 04:12:15

End at: 2018-07-18 04:12:45

Local clock offset: -2.066 ms

Remote clock offset: 4.642 ms

Below is generated by plot.py at 2018-07-18 04:29:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.43 Mbit/s

95th percentile per-packet one-way delay: 93.712 ms

Loss rate: 0.97%

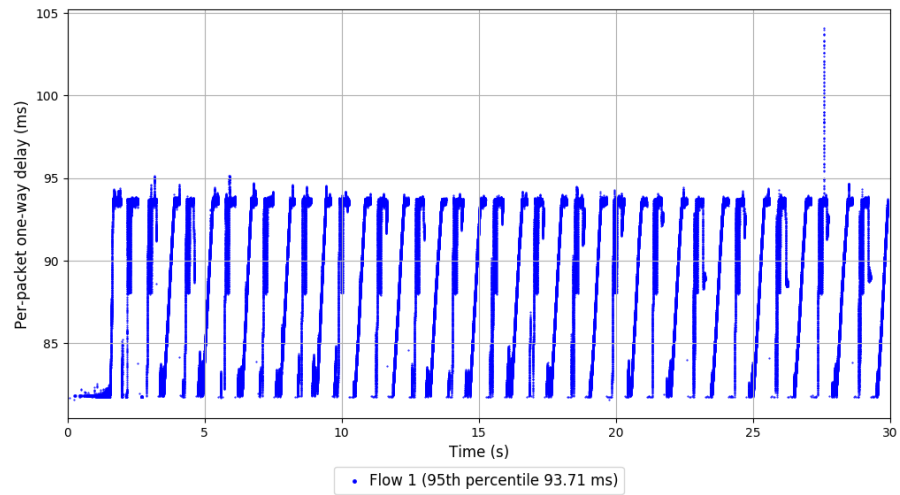
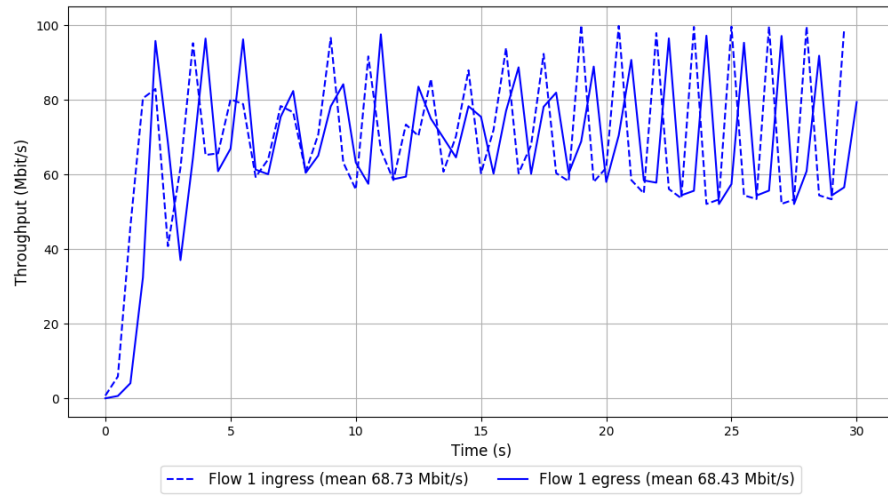
-- Flow 1:

Average throughput: 68.43 Mbit/s

95th percentile per-packet one-way delay: 93.712 ms

Loss rate: 0.97%

Run 10: Report of TCP BBR — Data Link

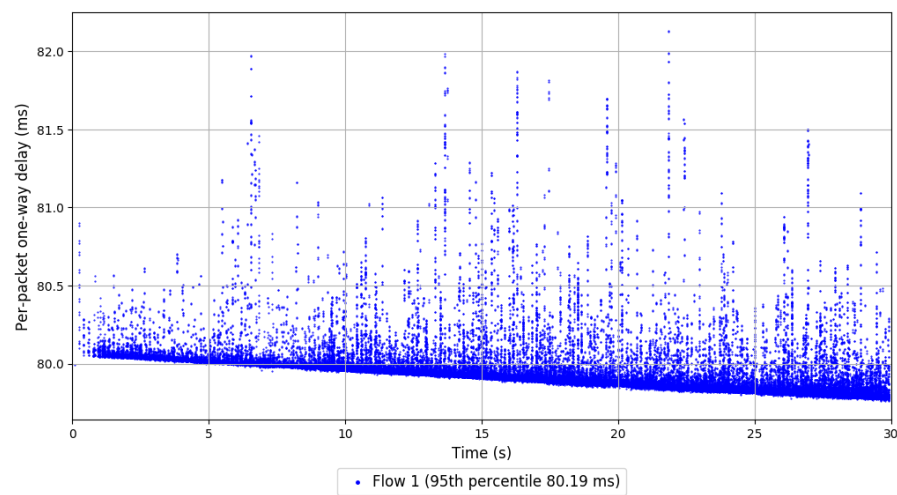
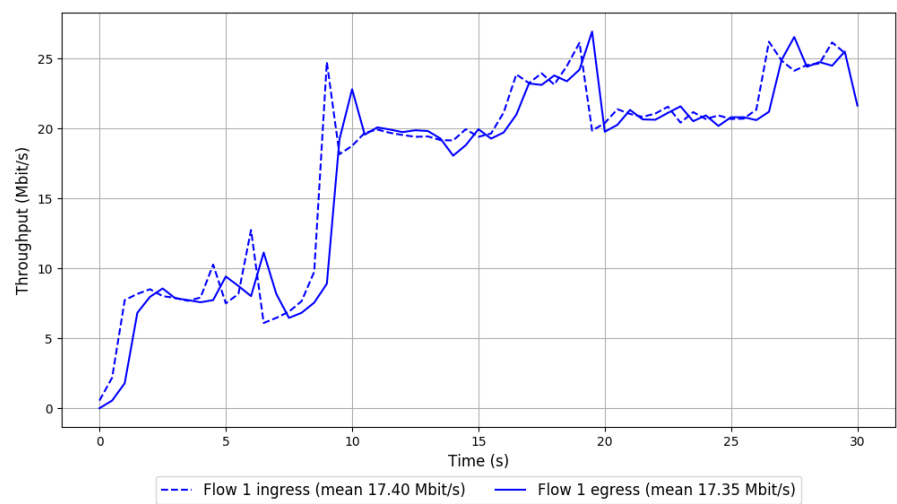


Run 1: Statistics of Copa

Start at: 2018-07-18 01:24:30
End at: 2018-07-18 01:25:00
Local clock offset: -2.073 ms
Remote clock offset: 14.306 ms

Below is generated by plot.py at 2018-07-18 04:29:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 17.35 Mbit/s
95th percentile per-packet one-way delay: 80.189 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 17.35 Mbit/s
95th percentile per-packet one-way delay: 80.189 ms
Loss rate: 0.82%

Run 1: Report of Copa — Data Link

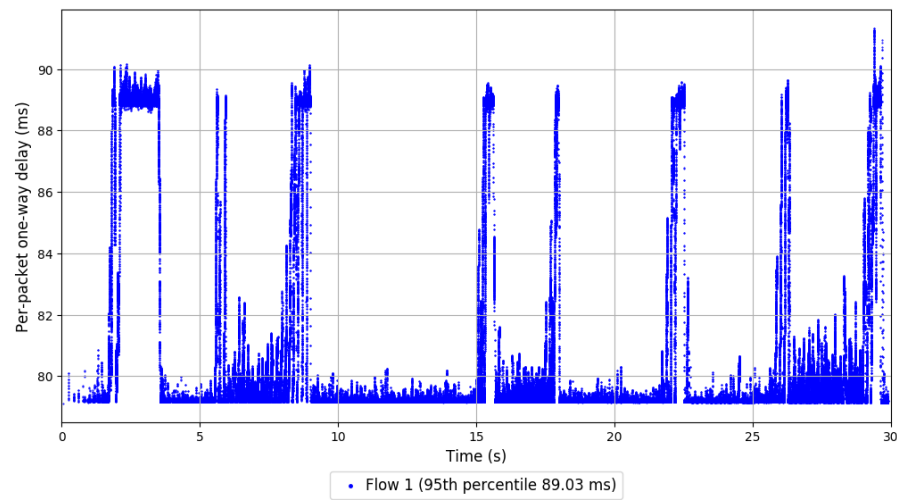
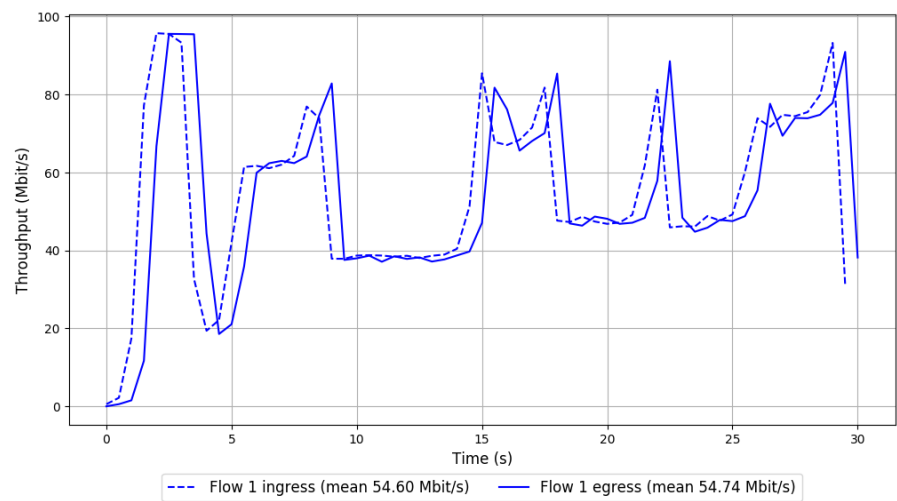


Run 2: Statistics of Copa

Start at: 2018-07-18 01:44:13
End at: 2018-07-18 01:44:43
Local clock offset: -2.467 ms
Remote clock offset: 10.831 ms

Below is generated by plot.py at 2018-07-18 04:29:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 54.74 Mbit/s
95th percentile per-packet one-way delay: 89.032 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 54.74 Mbit/s
95th percentile per-packet one-way delay: 89.032 ms
Loss rate: 0.31%

Run 2: Report of Copa — Data Link

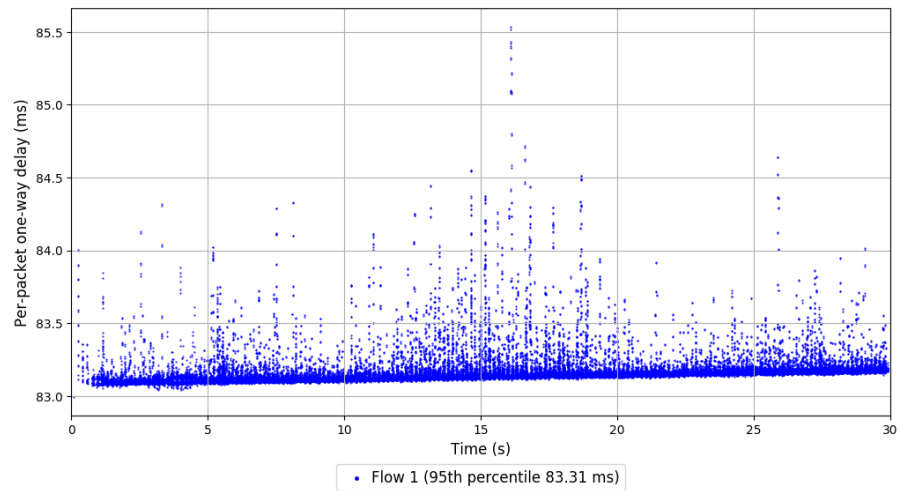
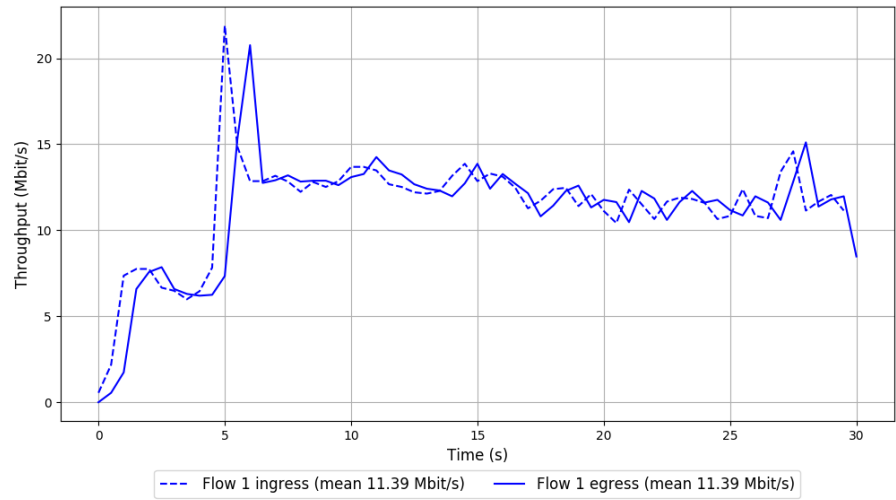


Run 3: Statistics of Copa

Start at: 2018-07-18 02:04:00
End at: 2018-07-18 02:04:30
Local clock offset: -2.508 ms
Remote clock offset: 5.523 ms

Below is generated by plot.py at 2018-07-18 04:29:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 11.39 Mbit/s
95th percentile per-packet one-way delay: 83.312 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 11.39 Mbit/s
95th percentile per-packet one-way delay: 83.312 ms
Loss rate: 0.59%

Run 3: Report of Copa — Data Link

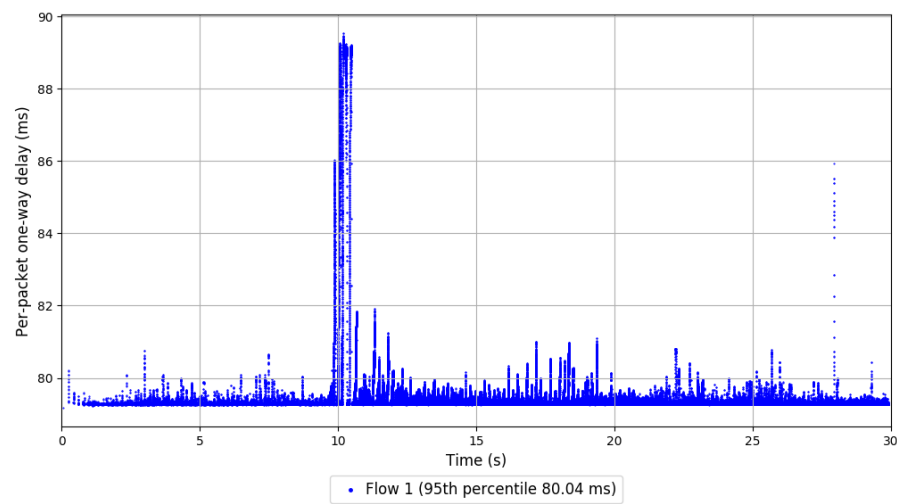
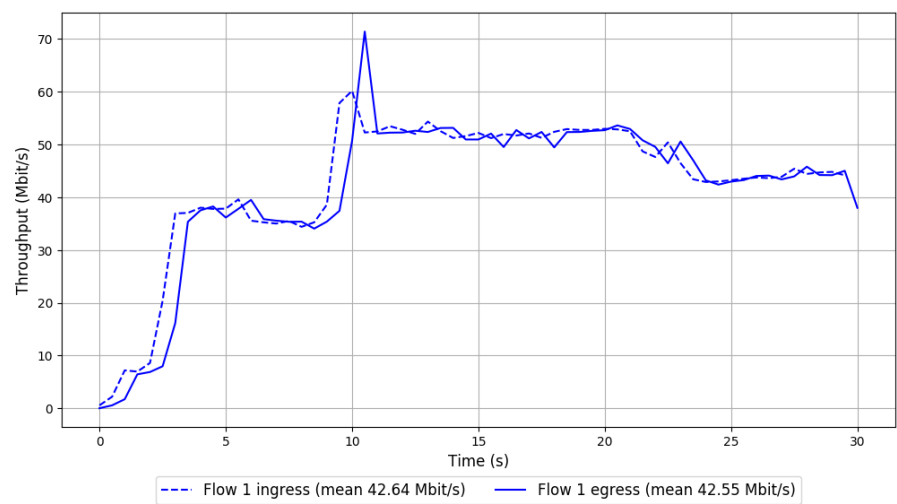


Run 4: Statistics of Copa

Start at: 2018-07-18 02:23:43
End at: 2018-07-18 02:24:13
Local clock offset: -2.539 ms
Remote clock offset: 11.194 ms

Below is generated by plot.py at 2018-07-18 04:29:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 42.55 Mbit/s
95th percentile per-packet one-way delay: 80.042 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 42.55 Mbit/s
95th percentile per-packet one-way delay: 80.042 ms
Loss rate: 0.75%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-07-18 02:43:28

End at: 2018-07-18 02:43:58

Local clock offset: -2.653 ms

Remote clock offset: 3.924 ms

Below is generated by plot.py at 2018-07-18 04:30:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.35 Mbit/s

95th percentile per-packet one-way delay: 92.347 ms

Loss rate: 11.04%

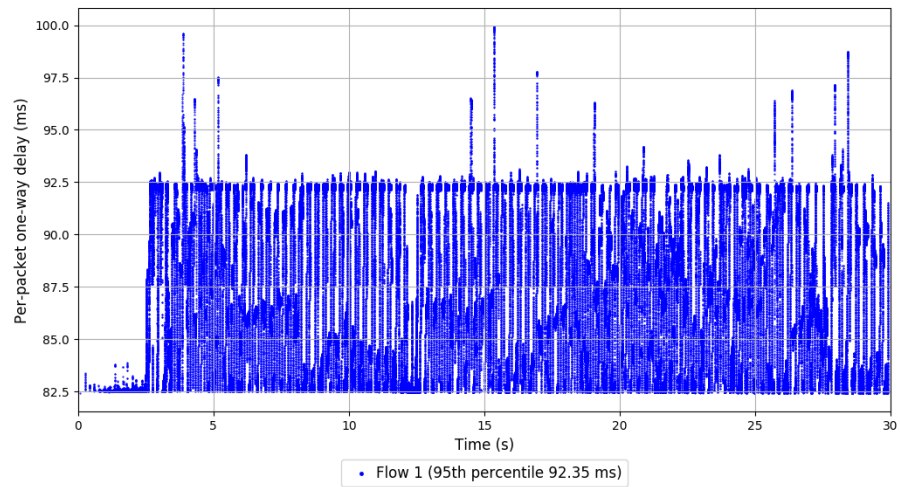
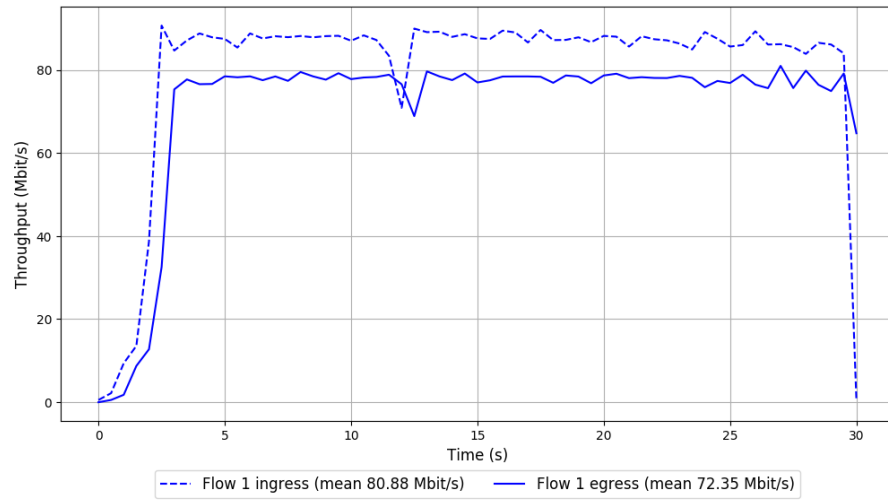
-- Flow 1:

Average throughput: 72.35 Mbit/s

95th percentile per-packet one-way delay: 92.347 ms

Loss rate: 11.04%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-07-18 03:03:23

End at: 2018-07-18 03:03:53

Local clock offset: -2.886 ms

Remote clock offset: 0.207 ms

Below is generated by plot.py at 2018-07-18 04:30:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.13 Mbit/s

95th percentile per-packet one-way delay: 95.912 ms

Loss rate: 0.54%

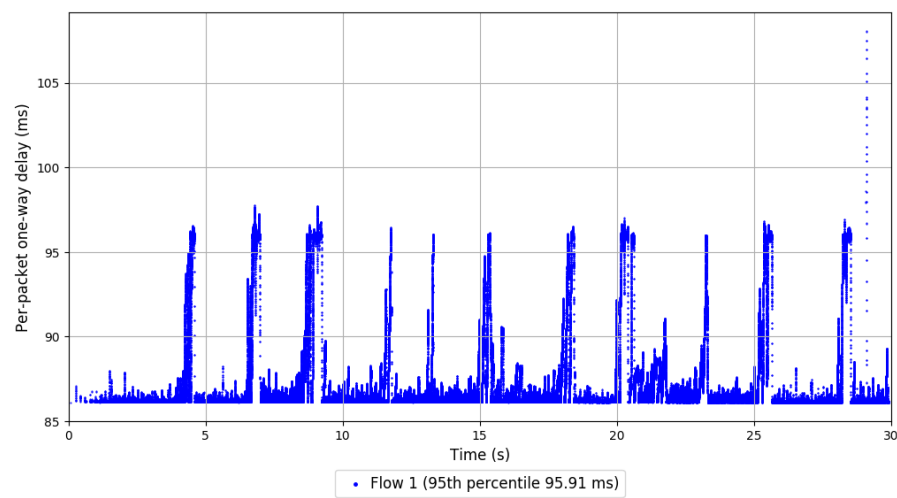
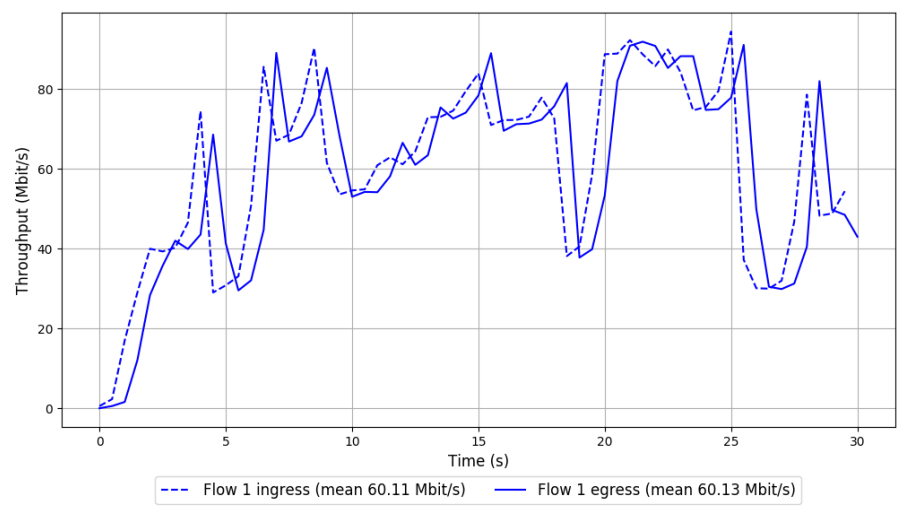
-- Flow 1:

Average throughput: 60.13 Mbit/s

95th percentile per-packet one-way delay: 95.912 ms

Loss rate: 0.54%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-07-18 03:23:14

End at: 2018-07-18 03:23:44

Local clock offset: -3.113 ms

Remote clock offset: 3.027 ms

Below is generated by plot.py at 2018-07-18 04:30:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.95 Mbit/s

95th percentile per-packet one-way delay: 92.059 ms

Loss rate: 16.06%

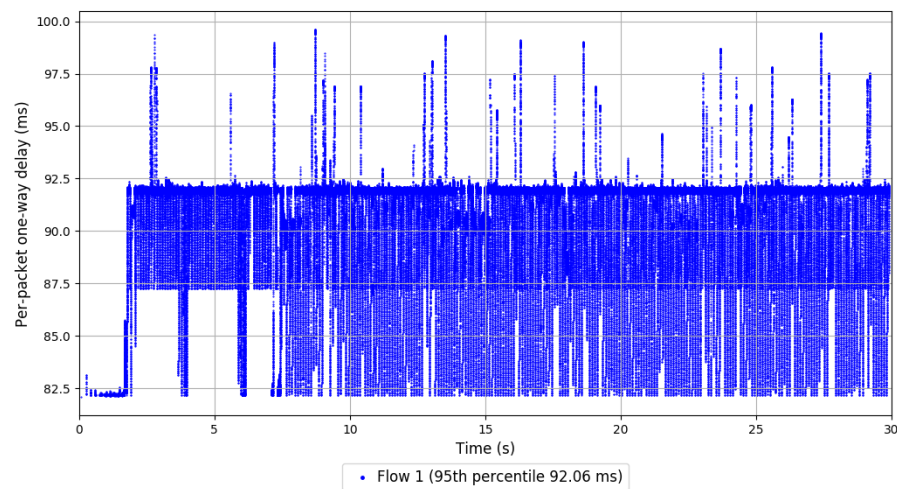
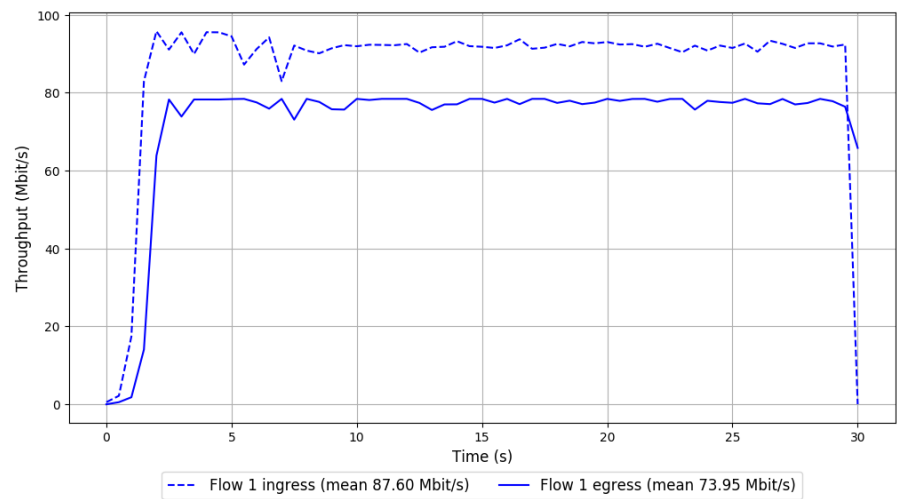
-- Flow 1:

Average throughput: 73.95 Mbit/s

95th percentile per-packet one-way delay: 92.059 ms

Loss rate: 16.06%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-07-18 03:43:06

End at: 2018-07-18 03:43:36

Local clock offset: -2.598 ms

Remote clock offset: 3.207 ms

Below is generated by plot.py at 2018-07-18 04:30:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.26 Mbit/s

95th percentile per-packet one-way delay: 91.993 ms

Loss rate: 0.32%

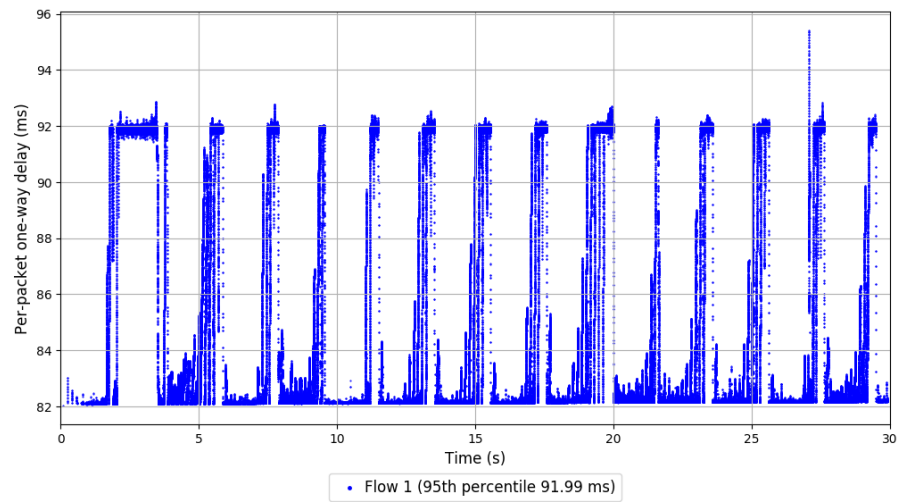
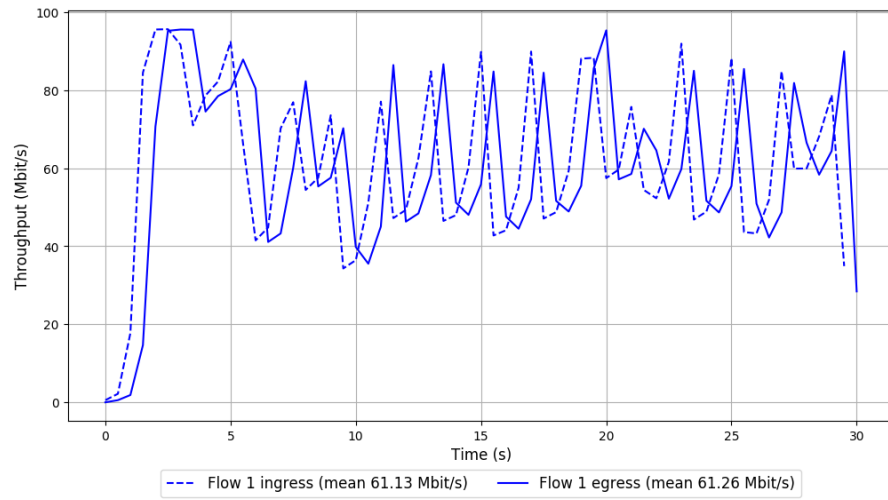
-- Flow 1:

Average throughput: 61.26 Mbit/s

95th percentile per-packet one-way delay: 91.993 ms

Loss rate: 0.32%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-07-18 04:02:56

End at: 2018-07-18 04:03:26

Local clock offset: -2.236 ms

Remote clock offset: 4.629 ms

Below is generated by plot.py at 2018-07-18 04:31:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.77 Mbit/s

95th percentile per-packet one-way delay: 91.638 ms

Loss rate: 0.58%

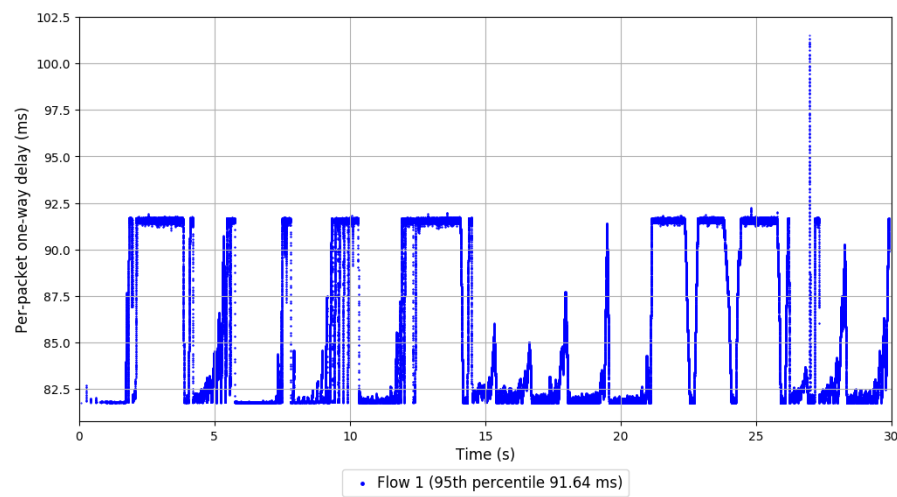
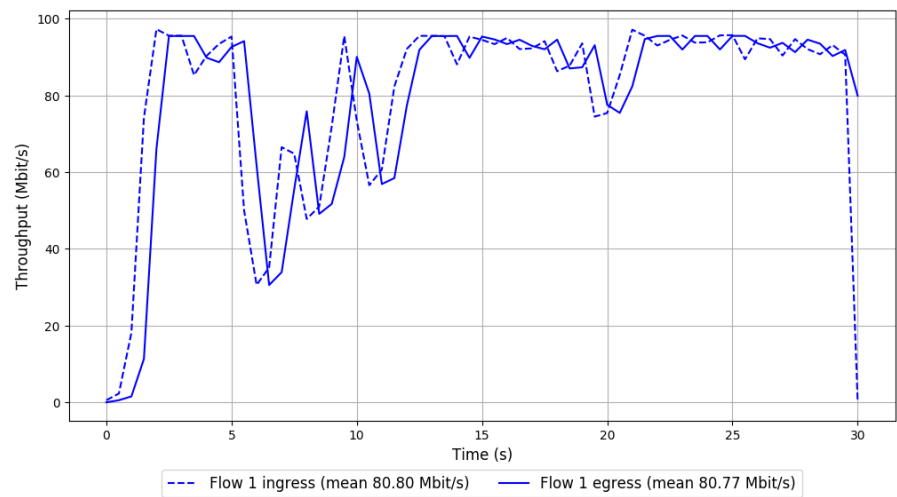
-- Flow 1:

Average throughput: 80.77 Mbit/s

95th percentile per-packet one-way delay: 91.638 ms

Loss rate: 0.58%

Run 9: Report of Copa — Data Link

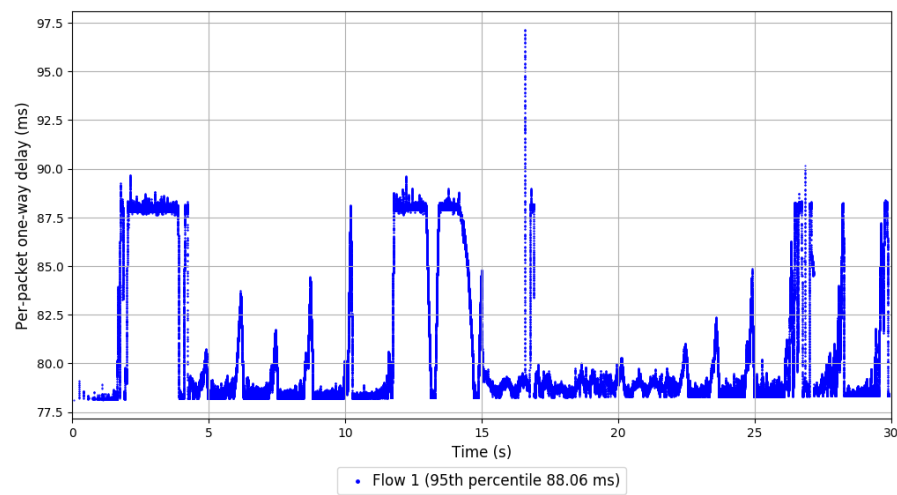
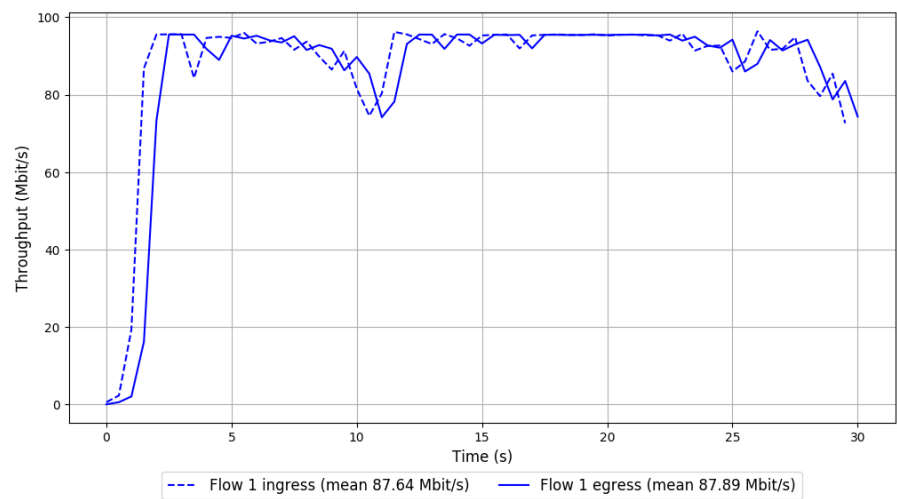


Run 10: Statistics of Copa

Start at: 2018-07-18 04:22:47
End at: 2018-07-18 04:23:17
Local clock offset: -1.976 ms
Remote clock offset: 13.184 ms

Below is generated by plot.py at 2018-07-18 04:31:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.89 Mbit/s
95th percentile per-packet one-way delay: 88.057 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 87.89 Mbit/s
95th percentile per-packet one-way delay: 88.057 ms
Loss rate: 0.26%

Run 10: Report of Copa — Data Link

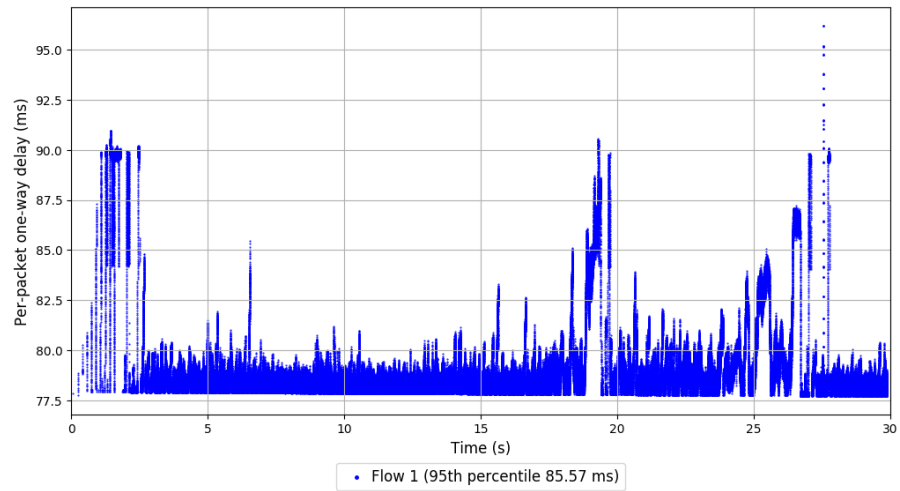
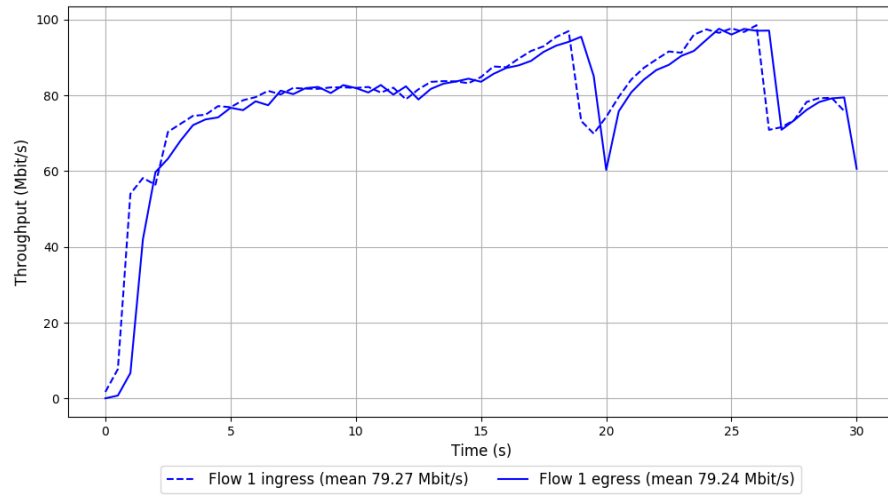


Run 1: Statistics of TCP Cubic

Start at: 2018-07-18 01:25:38
End at: 2018-07-18 01:26:08
Local clock offset: -2.168 ms
Remote clock offset: 13.839 ms

Below is generated by plot.py at 2018-07-18 04:31:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 79.24 Mbit/s
95th percentile per-packet one-way delay: 85.572 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 79.24 Mbit/s
95th percentile per-packet one-way delay: 85.572 ms
Loss rate: 0.58%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-07-18 01:45:25

End at: 2018-07-18 01:45:55

Local clock offset: -2.336 ms

Remote clock offset: 5.747 ms

Below is generated by plot.py at 2018-07-18 04:31:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.66 Mbit/s

95th percentile per-packet one-way delay: 91.341 ms

Loss rate: 0.57%

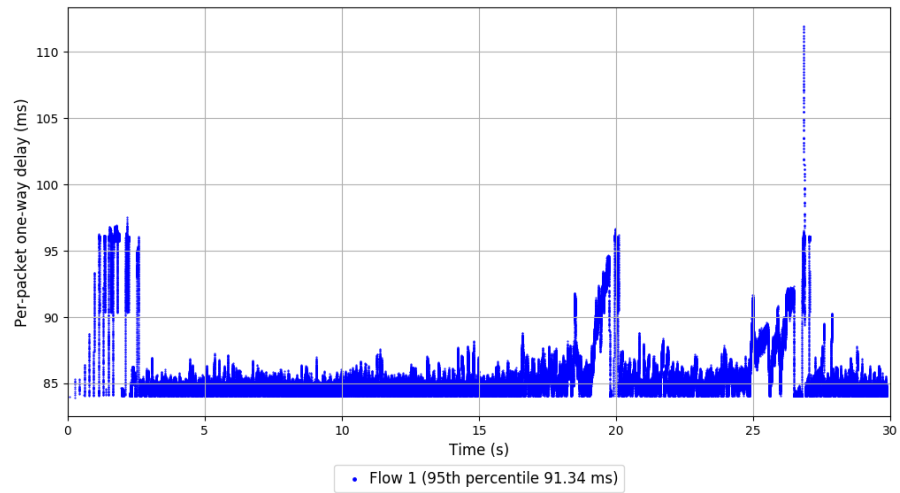
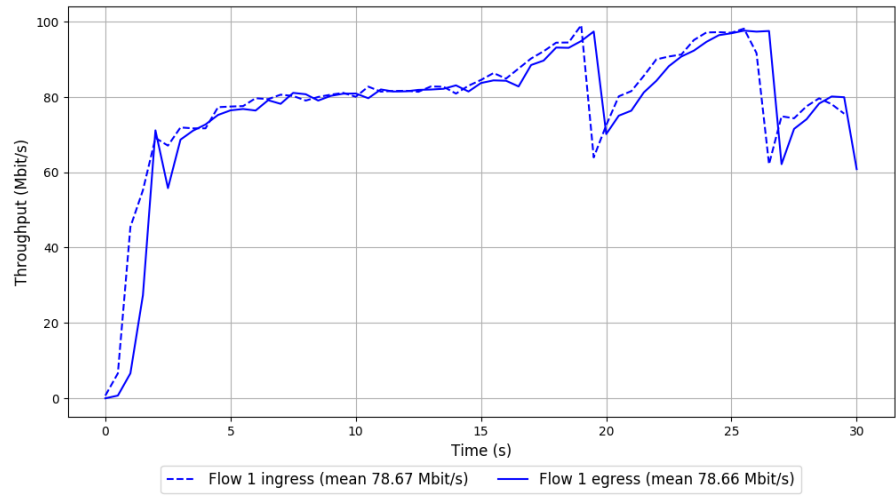
-- Flow 1:

Average throughput: 78.66 Mbit/s

95th percentile per-packet one-way delay: 91.341 ms

Loss rate: 0.57%

Run 2: Report of TCP Cubic — Data Link

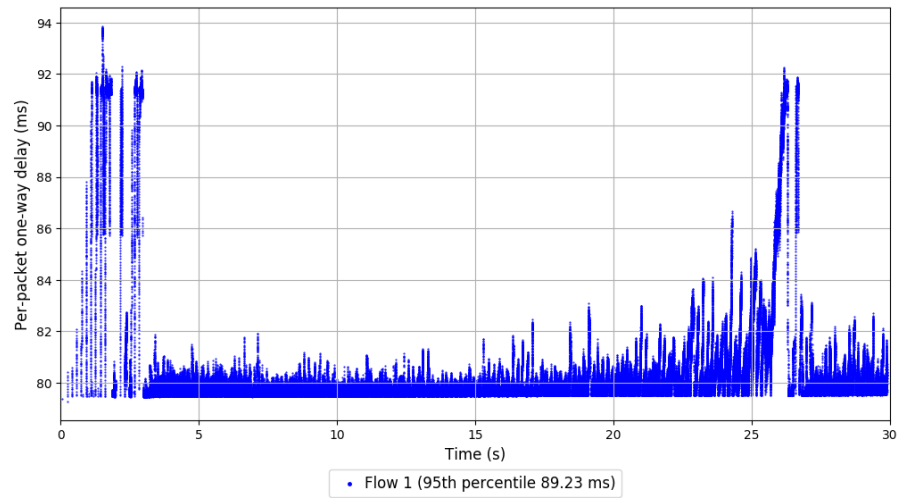
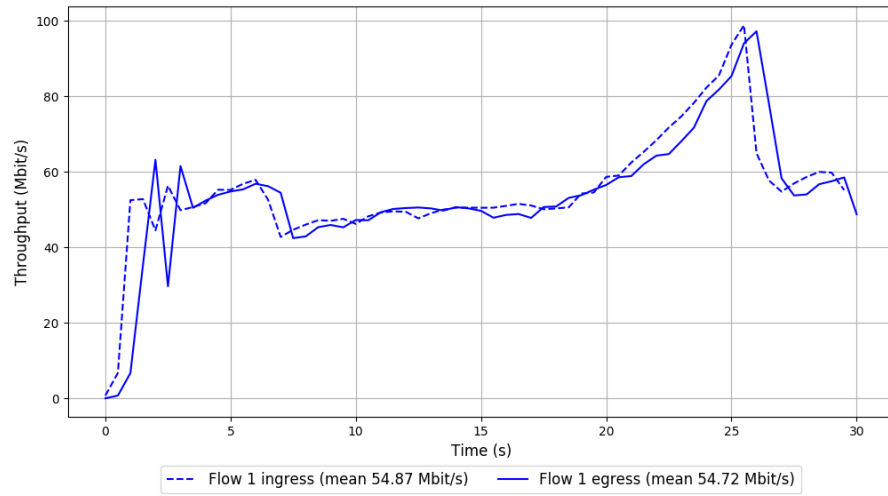


Run 3: Statistics of TCP Cubic

Start at: 2018-07-18 02:05:08
End at: 2018-07-18 02:05:38
Local clock offset: -2.517 ms
Remote clock offset: 11.768 ms

Below is generated by plot.py at 2018-07-18 04:31:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 54.72 Mbit/s
95th percentile per-packet one-way delay: 89.232 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 54.72 Mbit/s
95th percentile per-packet one-way delay: 89.232 ms
Loss rate: 0.82%

Run 3: Report of TCP Cubic — Data Link

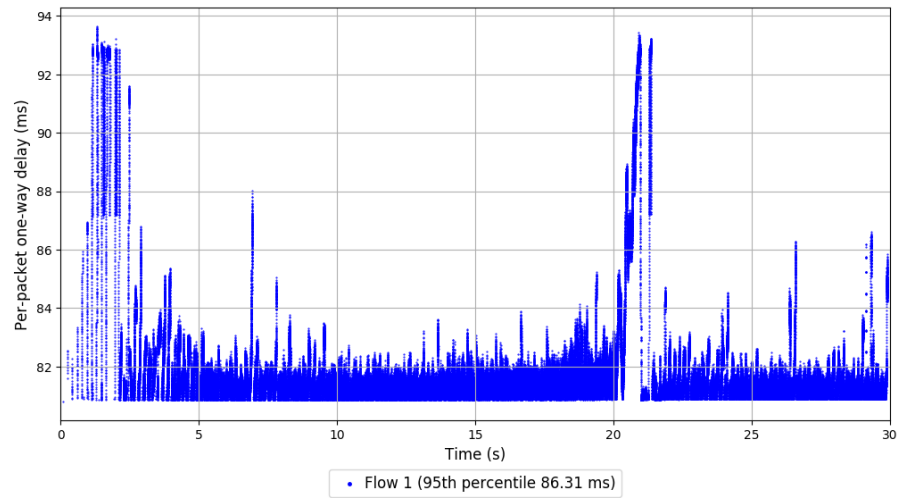
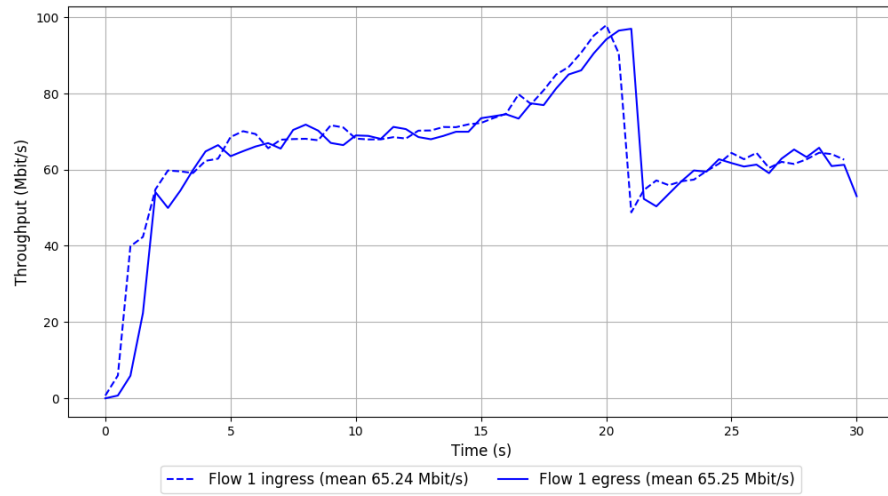


Run 4: Statistics of TCP Cubic

Start at: 2018-07-18 02:24:54
End at: 2018-07-18 02:25:24
Local clock offset: -2.531 ms
Remote clock offset: 11.805 ms

Below is generated by plot.py at 2018-07-18 04:31:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 65.25 Mbit/s
95th percentile per-packet one-way delay: 86.315 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 65.25 Mbit/s
95th percentile per-packet one-way delay: 86.315 ms
Loss rate: 0.54%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-07-18 02:44:41

End at: 2018-07-18 02:45:11

Local clock offset: -2.636 ms

Remote clock offset: 7.498 ms

Below is generated by plot.py at 2018-07-18 04:31:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.68 Mbit/s

95th percentile per-packet one-way delay: 81.887 ms

Loss rate: 0.83%

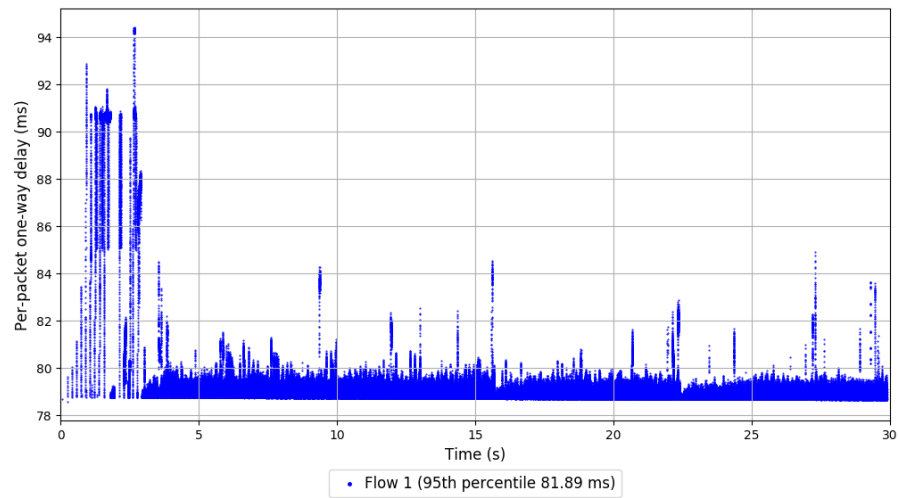
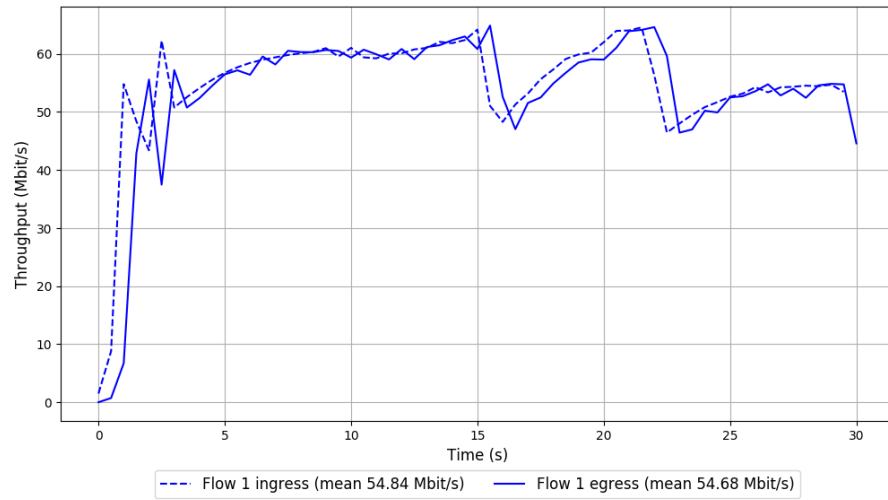
-- Flow 1:

Average throughput: 54.68 Mbit/s

95th percentile per-packet one-way delay: 81.887 ms

Loss rate: 0.83%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-07-18 03:04:35

End at: 2018-07-18 03:05:05

Local clock offset: -2.918 ms

Remote clock offset: 4.12 ms

Below is generated by plot.py at 2018-07-18 04:31:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.69 Mbit/s

95th percentile per-packet one-way delay: 86.588 ms

Loss rate: 0.42%

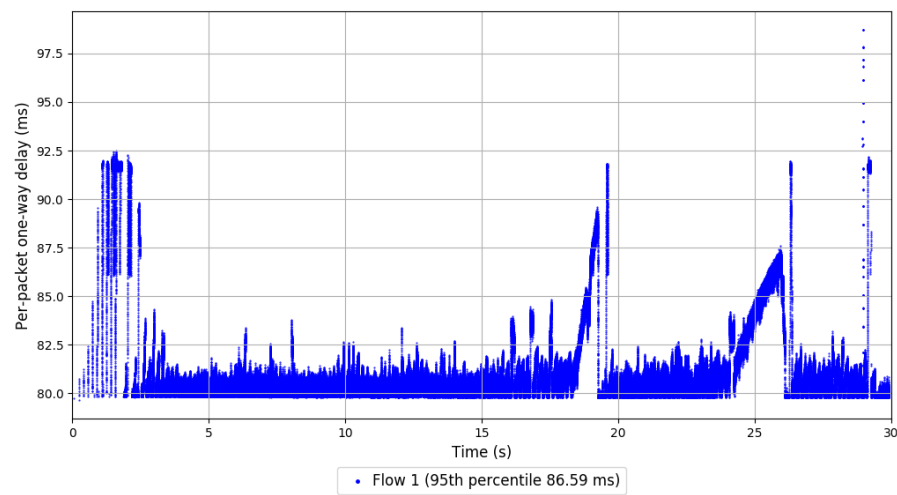
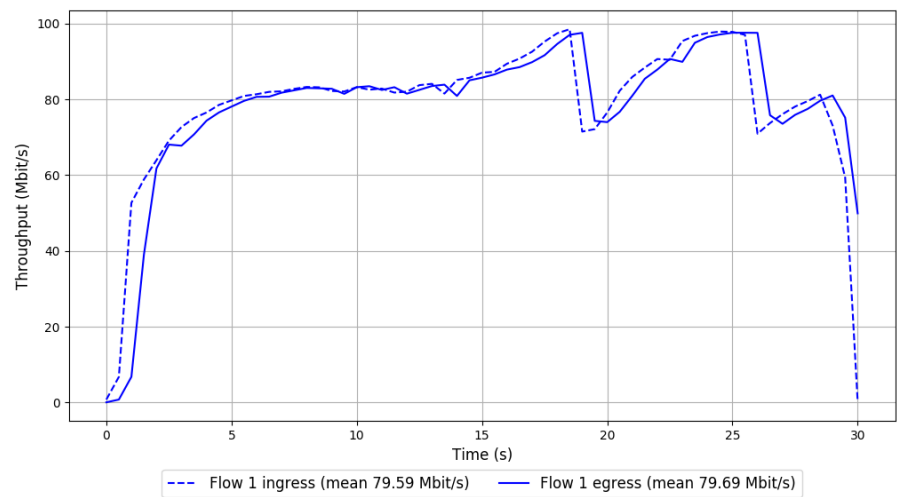
-- Flow 1:

Average throughput: 79.69 Mbit/s

95th percentile per-packet one-way delay: 86.588 ms

Loss rate: 0.42%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-07-18 03:24:28

End at: 2018-07-18 03:24:58

Local clock offset: -3.175 ms

Remote clock offset: 2.973 ms

Below is generated by plot.py at 2018-07-18 04:31:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.06 Mbit/s

95th percentile per-packet one-way delay: 82.960 ms

Loss rate: 0.98%

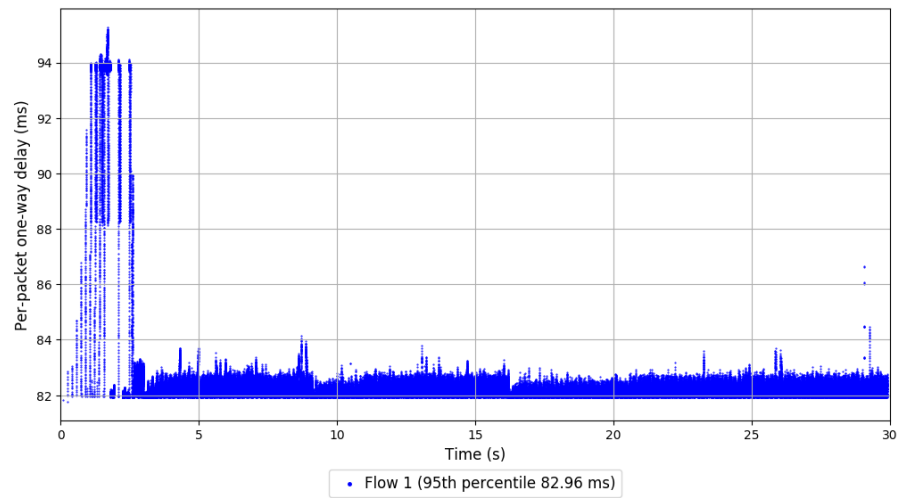
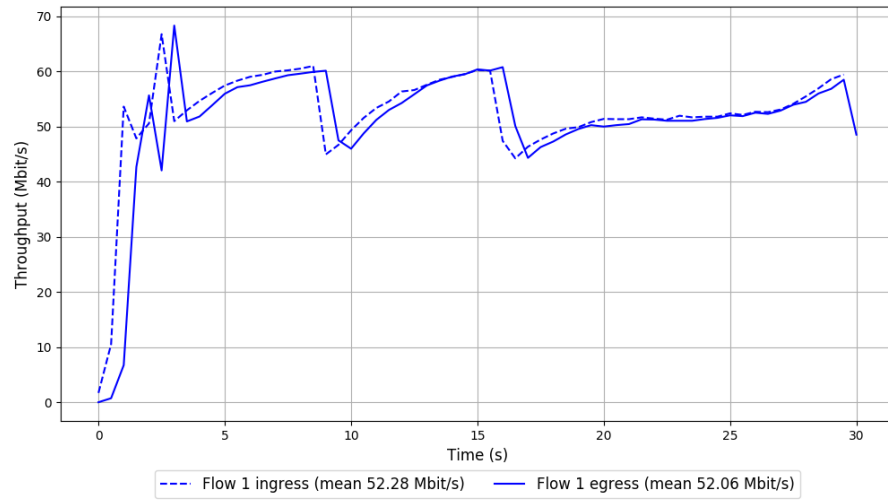
-- Flow 1:

Average throughput: 52.06 Mbit/s

95th percentile per-packet one-way delay: 82.960 ms

Loss rate: 0.98%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-07-18 03:44:18

End at: 2018-07-18 03:44:48

Local clock offset: -2.637 ms

Remote clock offset: 2.232 ms

Below is generated by plot.py at 2018-07-18 04:31:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.08 Mbit/s

95th percentile per-packet one-way delay: 89.640 ms

Loss rate: 0.57%

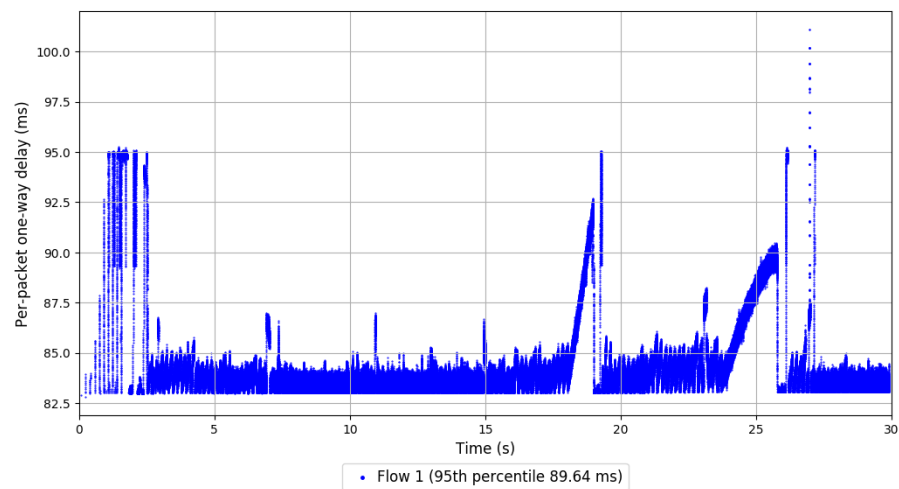
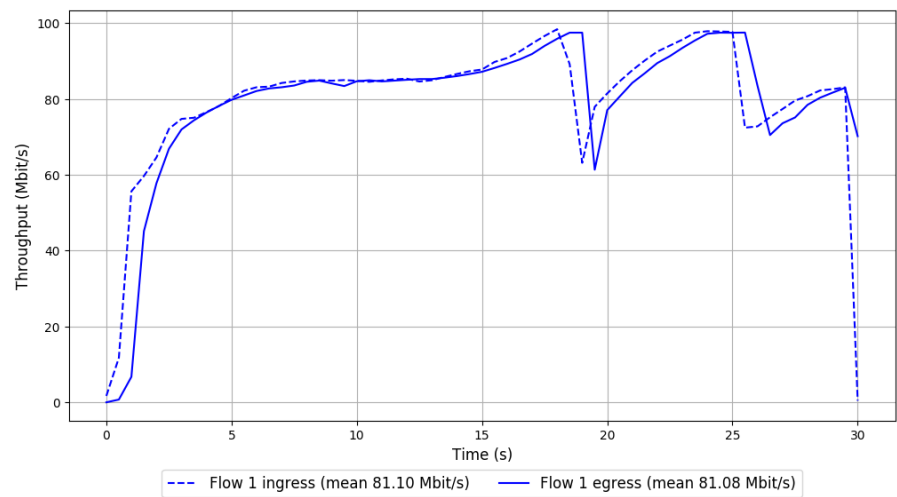
-- Flow 1:

Average throughput: 81.08 Mbit/s

95th percentile per-packet one-way delay: 89.640 ms

Loss rate: 0.57%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-07-18 04:04:09

End at: 2018-07-18 04:04:39

Local clock offset: -2.221 ms

Remote clock offset: 4.571 ms

Below is generated by plot.py at 2018-07-18 04:31:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.44 Mbit/s

95th percentile per-packet one-way delay: 88.767 ms

Loss rate: 0.42%

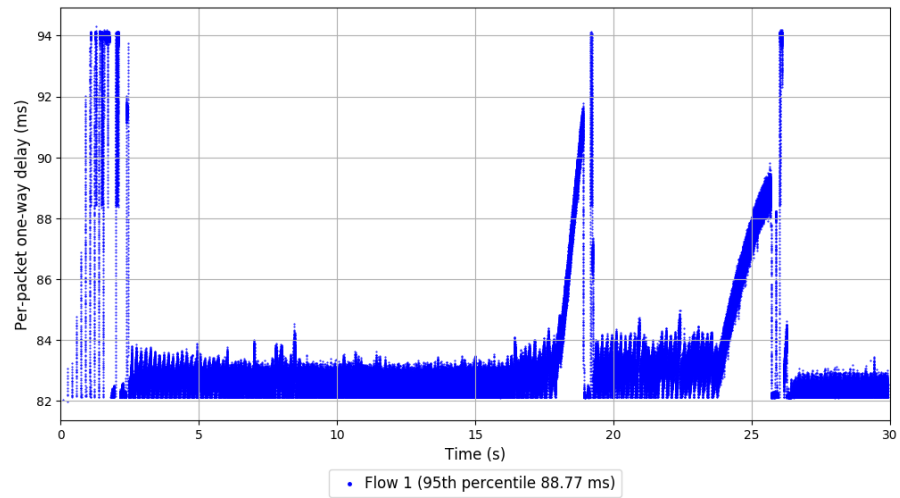
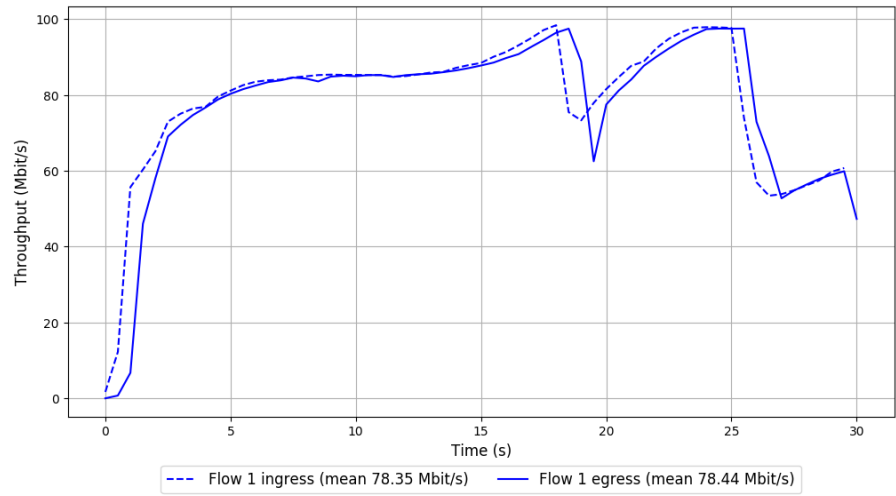
-- Flow 1:

Average throughput: 78.44 Mbit/s

95th percentile per-packet one-way delay: 88.767 ms

Loss rate: 0.42%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-07-18 04:24:01

End at: 2018-07-18 04:24:31

Local clock offset: -1.94 ms

Remote clock offset: 8.643 ms

Below is generated by plot.py at 2018-07-18 04:32:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.45 Mbit/s

95th percentile per-packet one-way delay: 89.591 ms

Loss rate: 0.57%

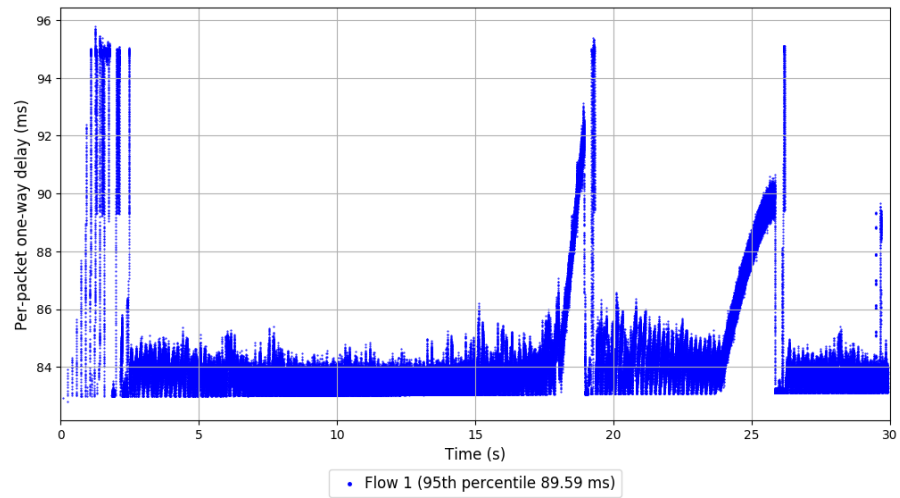
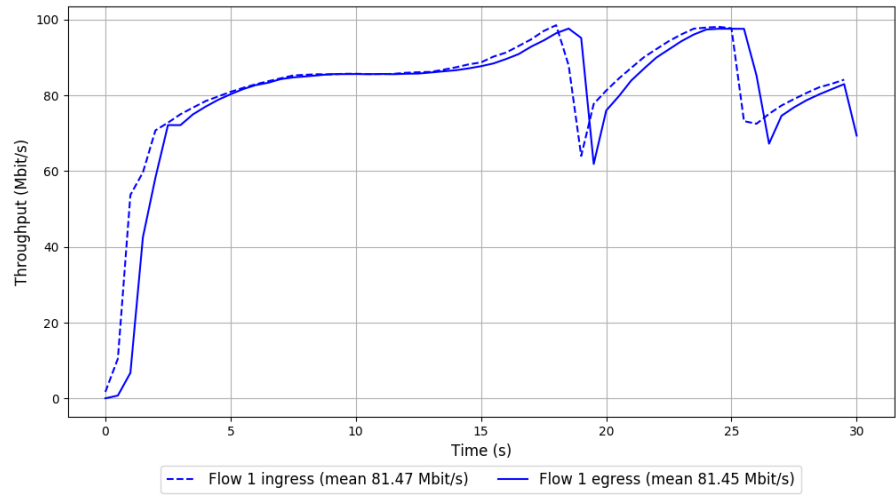
-- Flow 1:

Average throughput: 81.45 Mbit/s

95th percentile per-packet one-way delay: 89.591 ms

Loss rate: 0.57%

Run 10: Report of TCP Cubic — Data Link

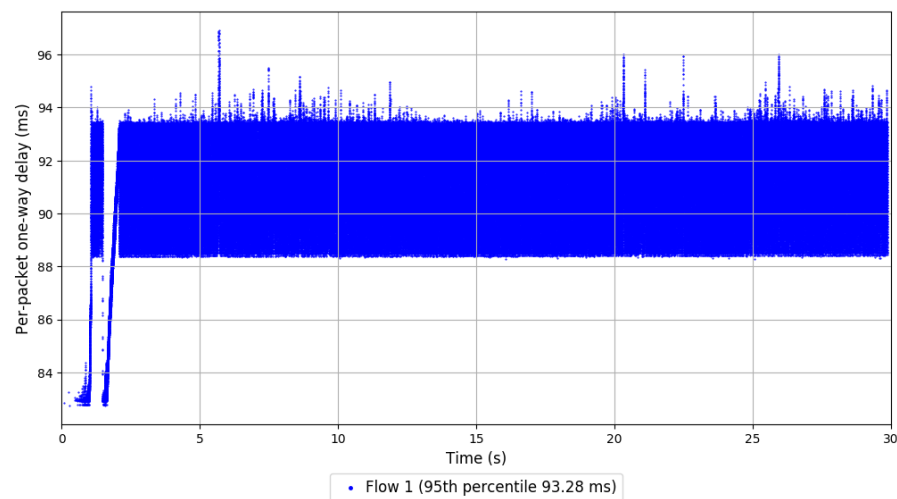
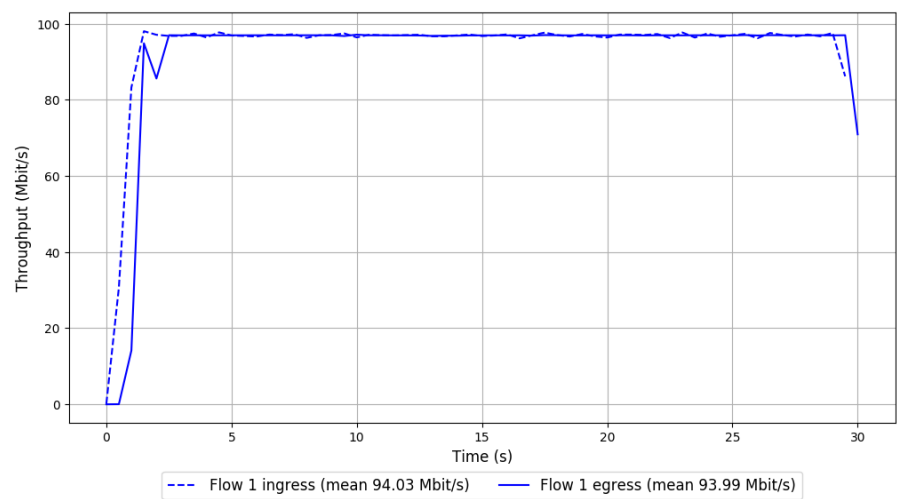


Run 1: Statistics of FillP

Start at: 2018-07-18 01:20:58
End at: 2018-07-18 01:21:28
Local clock offset: 1.56 ms
Remote clock offset: 13.477 ms

Below is generated by plot.py at 2018-07-18 04:32:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.99 Mbit/s
95th percentile per-packet one-way delay: 93.275 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 93.99 Mbit/s
95th percentile per-packet one-way delay: 93.275 ms
Loss rate: 0.59%

Run 1: Report of FillP — Data Link

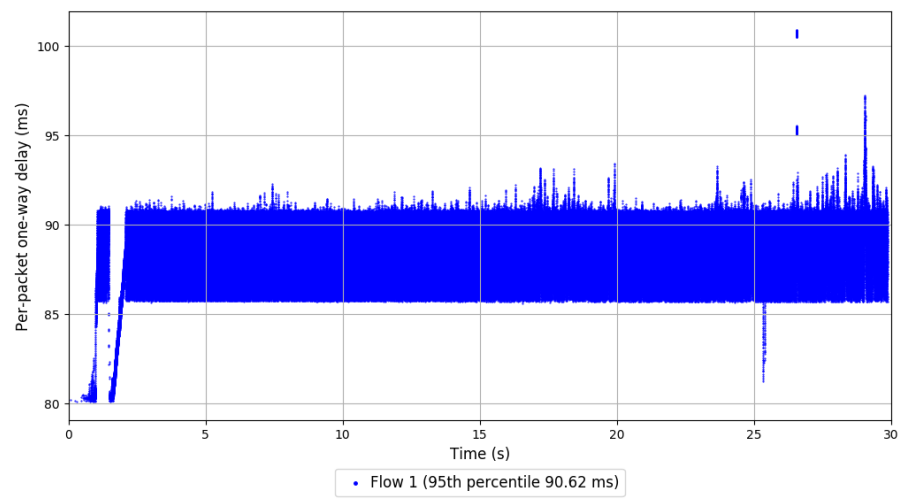
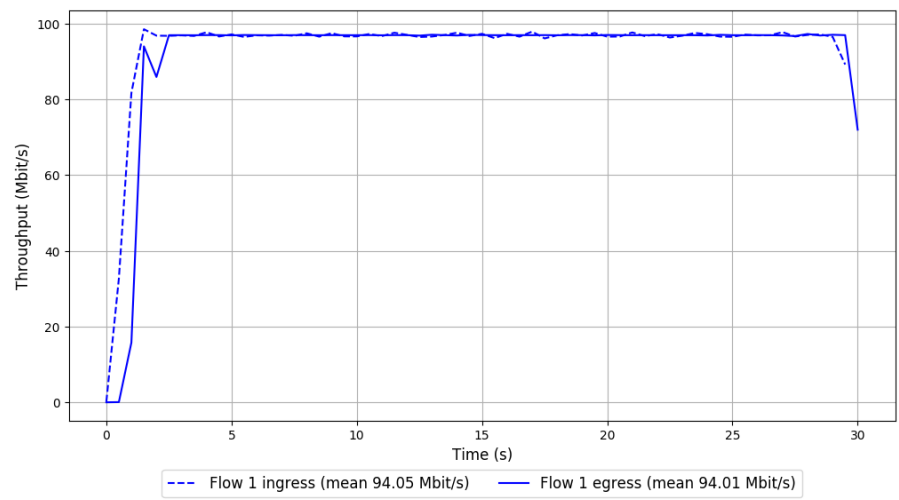


Run 2: Statistics of FillP

Start at: 2018-07-18 01:40:40
End at: 2018-07-18 01:41:10
Local clock offset: -2.402 ms
Remote clock offset: 10.065 ms

Below is generated by plot.py at 2018-07-18 04:32:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.01 Mbit/s
95th percentile per-packet one-way delay: 90.621 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 94.01 Mbit/s
95th percentile per-packet one-way delay: 90.621 ms
Loss rate: 0.61%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-07-18 02:00:28

End at: 2018-07-18 02:00:58

Local clock offset: -2.465 ms

Remote clock offset: 9.972 ms

Below is generated by plot.py at 2018-07-18 04:32:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.97 Mbit/s

95th percentile per-packet one-way delay: 90.471 ms

Loss rate: 0.63%

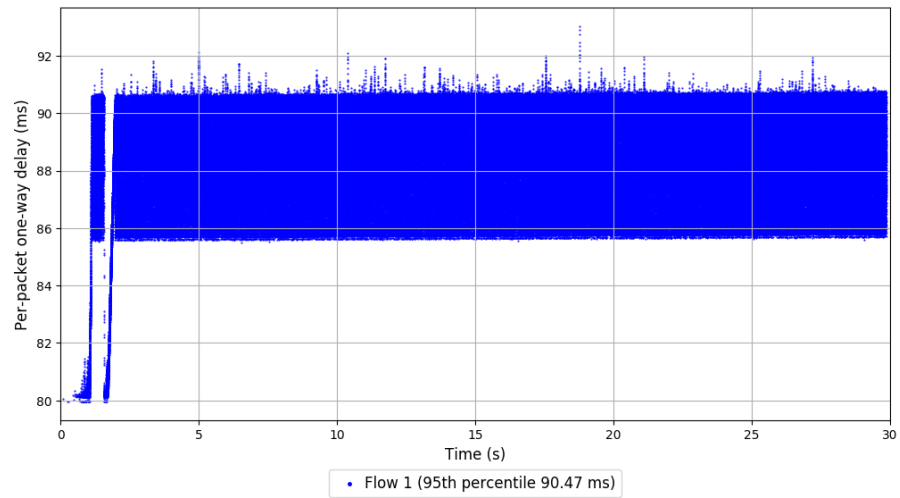
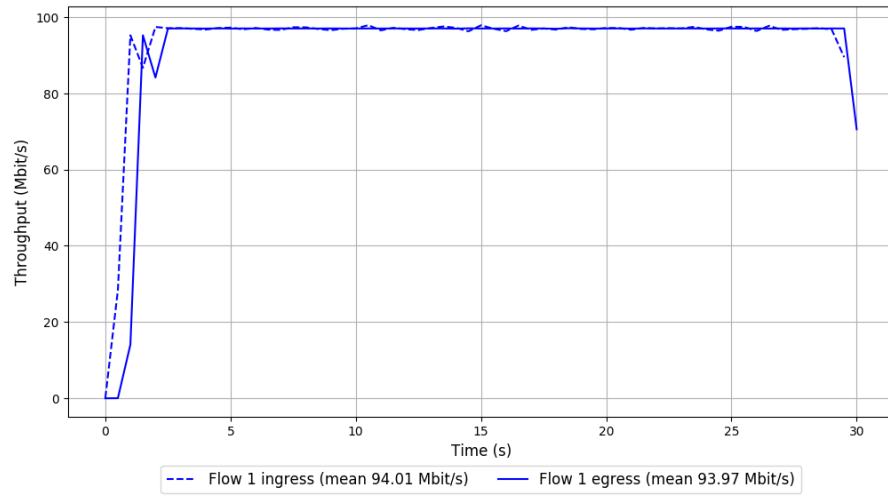
-- Flow 1:

Average throughput: 93.97 Mbit/s

95th percentile per-packet one-way delay: 90.471 ms

Loss rate: 0.63%

Run 3: Report of FillP — Data Link

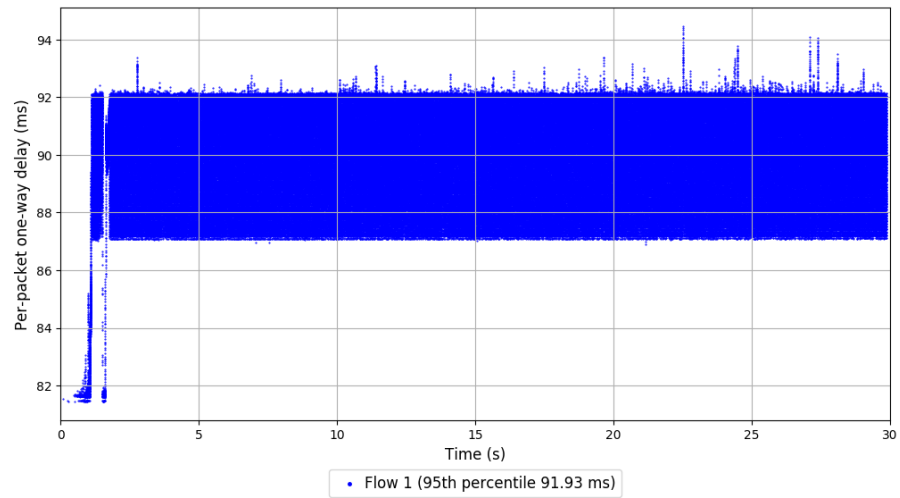
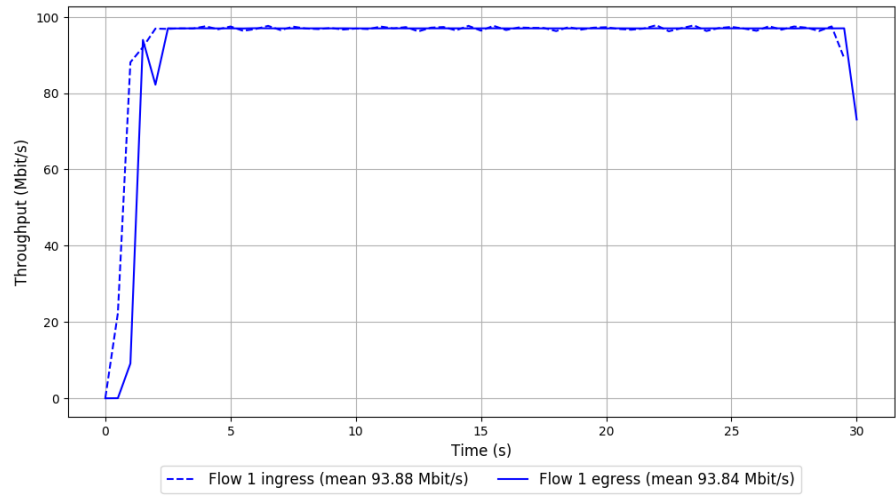


Run 4: Statistics of FillP

Start at: 2018-07-18 02:20:11
End at: 2018-07-18 02:20:41
Local clock offset: -2.62 ms
Remote clock offset: 10.544 ms

Below is generated by plot.py at 2018-07-18 04:32:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.84 Mbit/s
95th percentile per-packet one-way delay: 91.934 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 93.84 Mbit/s
95th percentile per-packet one-way delay: 91.934 ms
Loss rate: 0.60%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-07-18 02:39:56

End at: 2018-07-18 02:40:26

Local clock offset: -2.624 ms

Remote clock offset: 9.949 ms

Below is generated by plot.py at 2018-07-18 04:32:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.44 Mbit/s

95th percentile per-packet one-way delay: 89.942 ms

Loss rate: 0.62%

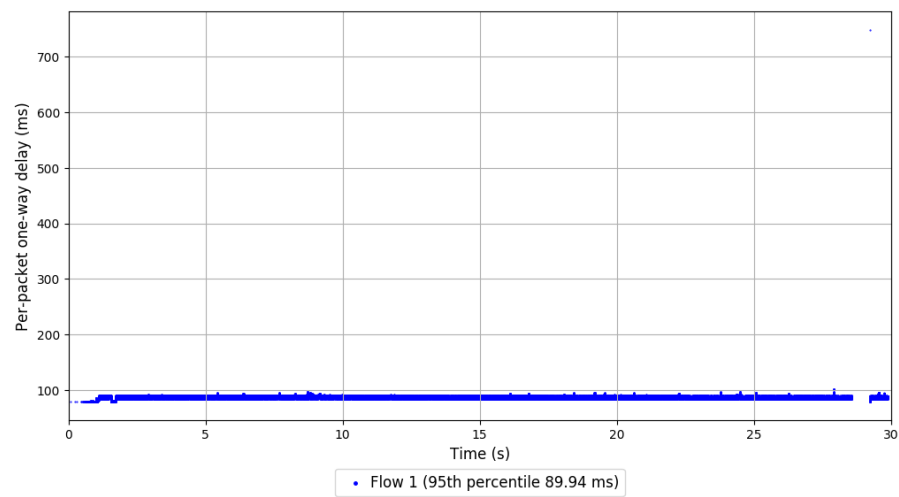
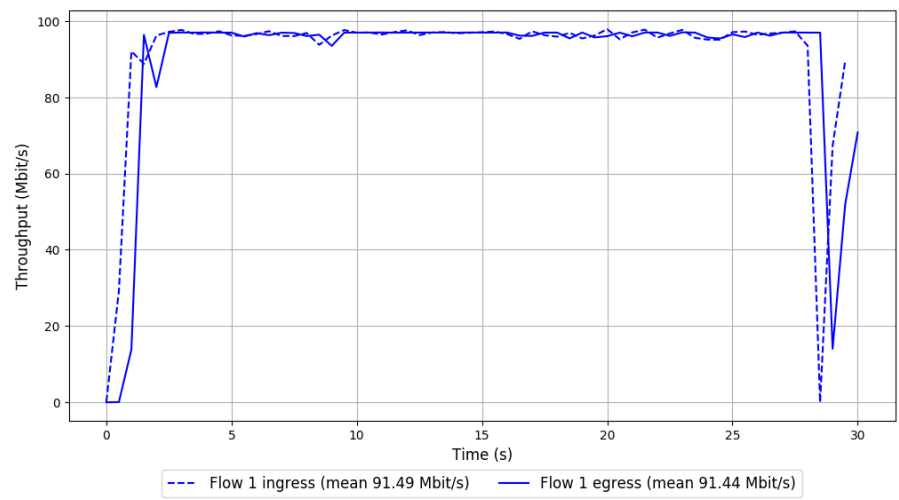
-- Flow 1:

Average throughput: 91.44 Mbit/s

95th percentile per-packet one-way delay: 89.942 ms

Loss rate: 0.62%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-18 02:59:46

End at: 2018-07-18 03:00:16

Local clock offset: -2.782 ms

Remote clock offset: 5.586 ms

Below is generated by plot.py at 2018-07-18 04:32:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.70 Mbit/s

95th percentile per-packet one-way delay: 88.828 ms

Loss rate: 10.97%

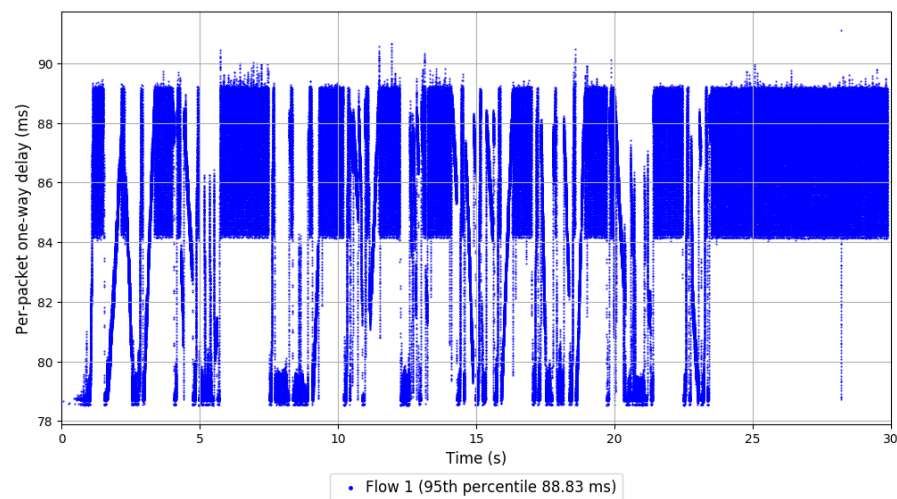
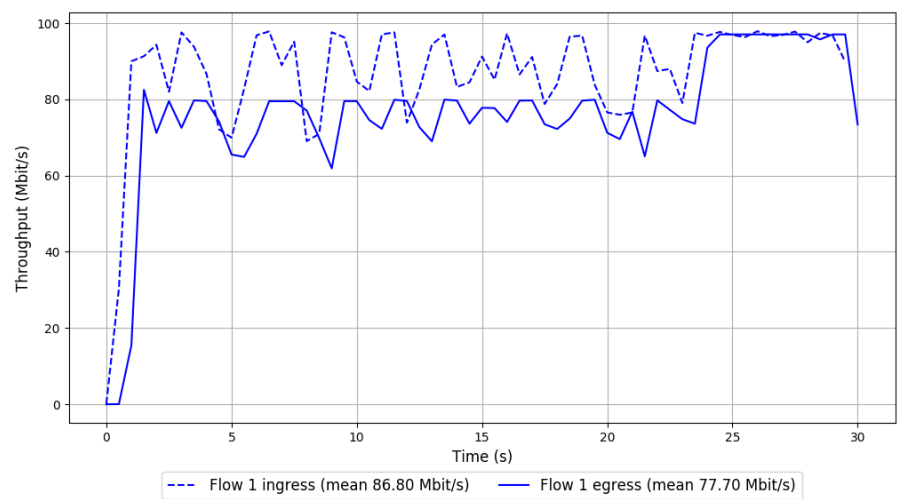
-- Flow 1:

Average throughput: 77.70 Mbit/s

95th percentile per-packet one-way delay: 88.828 ms

Loss rate: 10.97%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-07-18 03:19:40

End at: 2018-07-18 03:20:10

Local clock offset: -3.107 ms

Remote clock offset: 7.471 ms

Below is generated by plot.py at 2018-07-18 04:33:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.04 Mbit/s

95th percentile per-packet one-way delay: 89.926 ms

Loss rate: 0.60%

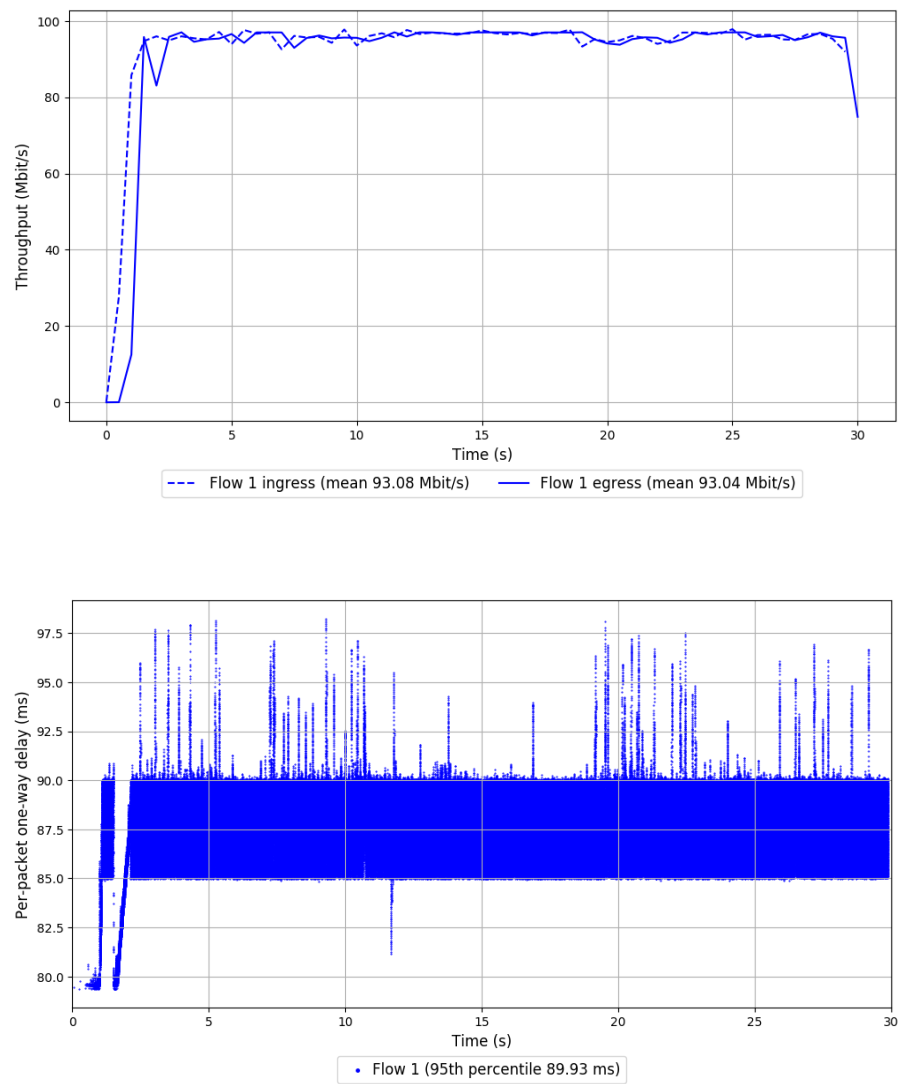
-- Flow 1:

Average throughput: 93.04 Mbit/s

95th percentile per-packet one-way delay: 89.926 ms

Loss rate: 0.60%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-07-18 03:39:35

End at: 2018-07-18 03:40:05

Local clock offset: -2.645 ms

Remote clock offset: 1.616 ms

Below is generated by plot.py at 2018-07-18 04:33:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.98 Mbit/s

95th percentile per-packet one-way delay: 93.300 ms

Loss rate: 0.60%

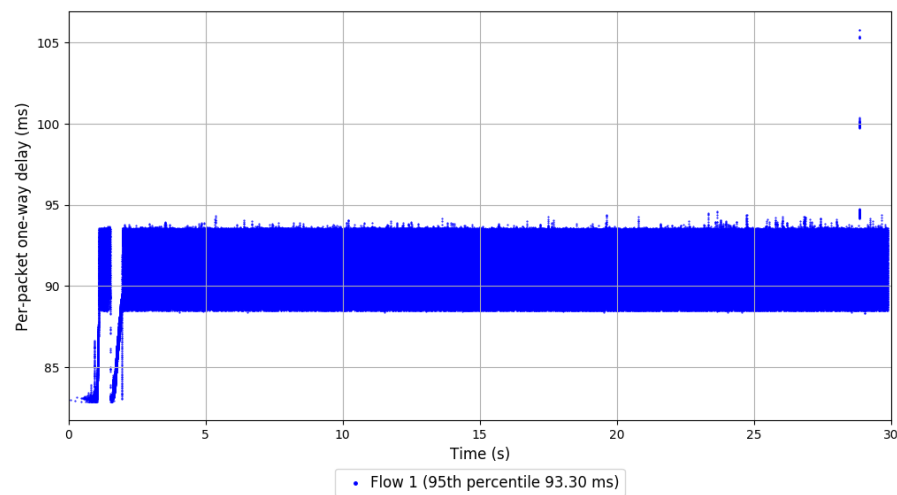
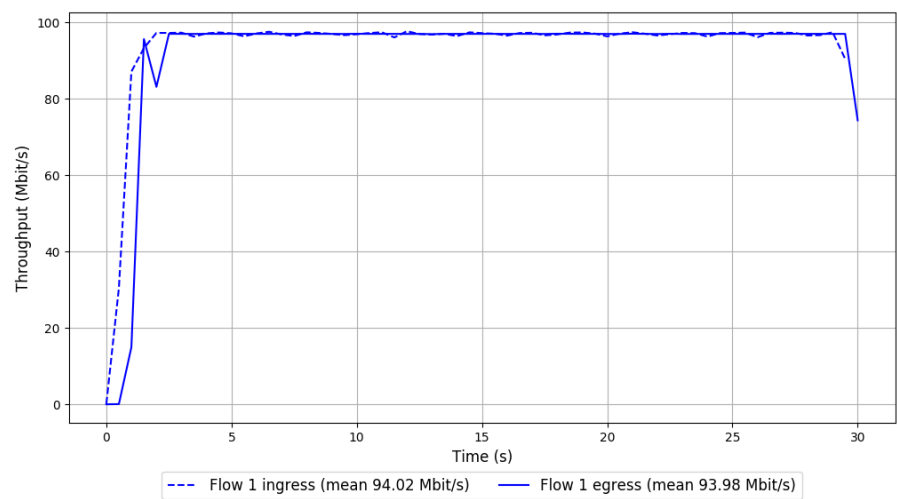
-- Flow 1:

Average throughput: 93.98 Mbit/s

95th percentile per-packet one-way delay: 93.300 ms

Loss rate: 0.60%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-18 03:59:23

End at: 2018-07-18 03:59:53

Local clock offset: -2.343 ms

Remote clock offset: 3.511 ms

Below is generated by plot.py at 2018-07-18 04:33:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.07 Mbit/s

95th percentile per-packet one-way delay: 93.007 ms

Loss rate: 0.59%

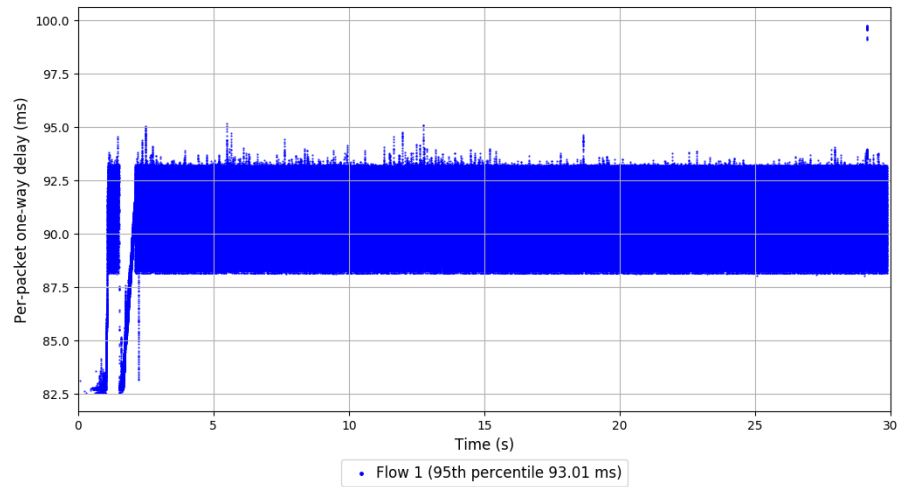
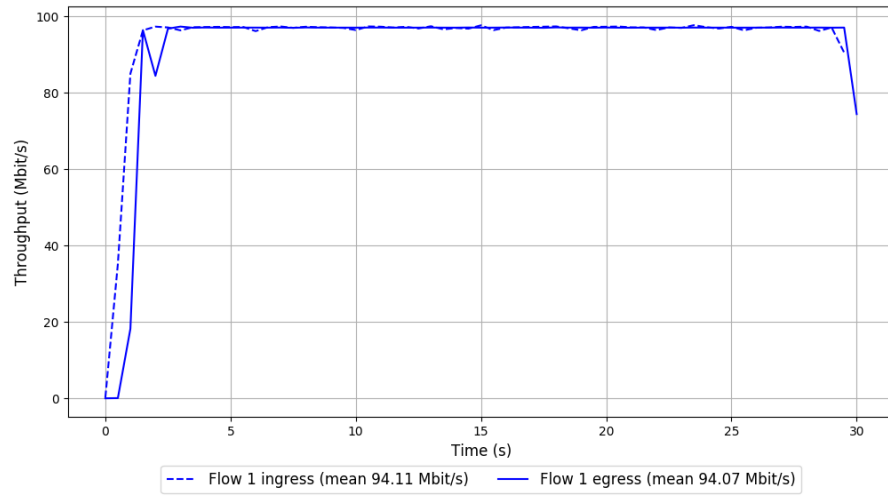
-- Flow 1:

Average throughput: 94.07 Mbit/s

95th percentile per-packet one-way delay: 93.007 ms

Loss rate: 0.59%

Run 9: Report of FillP — Data Link

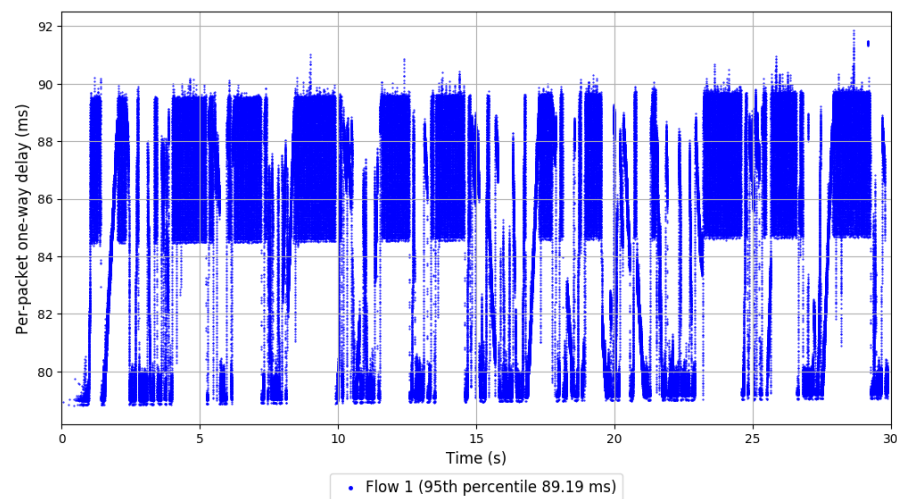
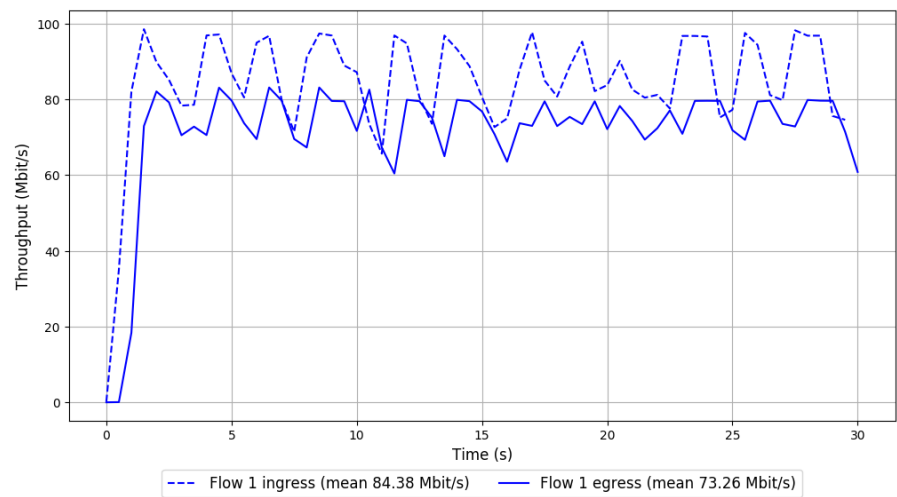


Run 10: Statistics of FillP

Start at: 2018-07-18 04:19:13
End at: 2018-07-18 04:19:43
Local clock offset: -2.043 ms
Remote clock offset: 10.535 ms

Below is generated by plot.py at 2018-07-18 04:33:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 73.26 Mbit/s
95th percentile per-packet one-way delay: 89.193 ms
Loss rate: 13.67%
-- Flow 1:
Average throughput: 73.26 Mbit/s
95th percentile per-packet one-way delay: 89.193 ms
Loss rate: 13.67%

Run 10: Report of FillP — Data Link

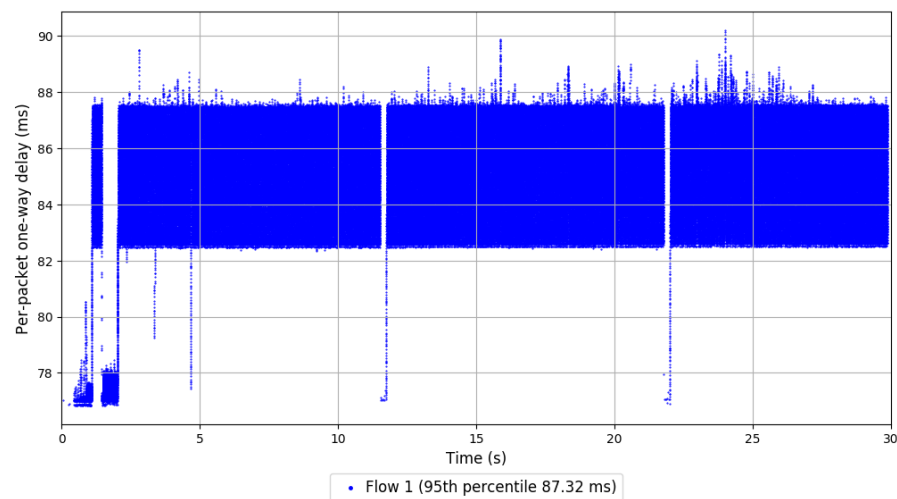
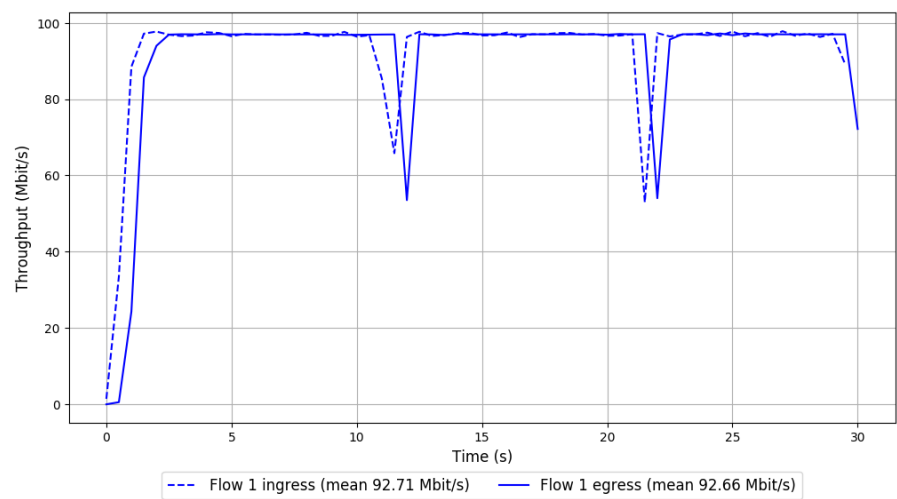


Run 1: Statistics of FillP-Sheep

Start at: 2018-07-18 01:15:10
End at: 2018-07-18 01:15:40
Local clock offset: -2.345 ms
Remote clock offset: 15.032 ms

Below is generated by plot.py at 2018-07-18 04:33:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.66 Mbit/s
95th percentile per-packet one-way delay: 87.319 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 92.66 Mbit/s
95th percentile per-packet one-way delay: 87.319 ms
Loss rate: 0.60%

Run 1: Report of FillP-Sheep — Data Link

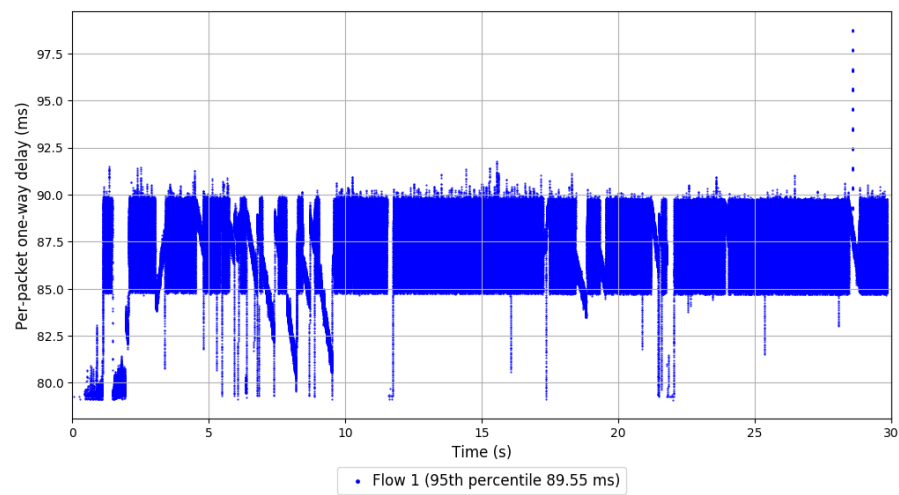
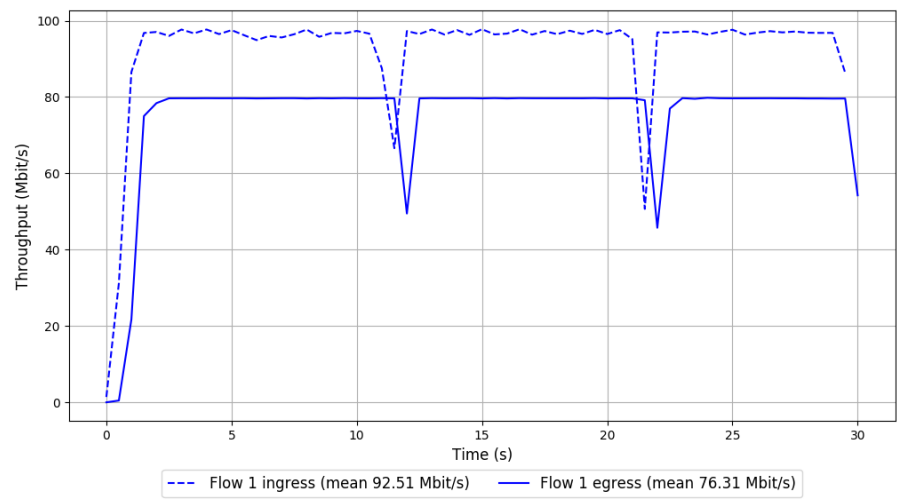


Run 2: Statistics of FillP-Sheep

Start at: 2018-07-18 01:34:52
End at: 2018-07-18 01:35:22
Local clock offset: -2.378 ms
Remote clock offset: 11.906 ms

Below is generated by plot.py at 2018-07-18 04:33:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.31 Mbit/s
95th percentile per-packet one-way delay: 89.550 ms
Loss rate: 18.00%
-- Flow 1:
Average throughput: 76.31 Mbit/s
95th percentile per-packet one-way delay: 89.550 ms
Loss rate: 18.00%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-07-18 01:54:39

End at: 2018-07-18 01:55:09

Local clock offset: -2.349 ms

Remote clock offset: 9.348 ms

Below is generated by plot.py at 2018-07-18 04:34:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.75 Mbit/s

95th percentile per-packet one-way delay: 87.845 ms

Loss rate: 0.61%

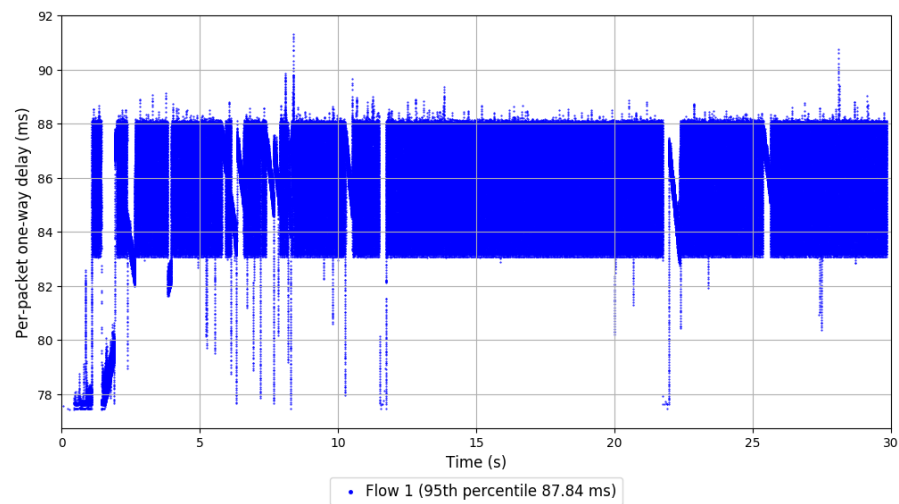
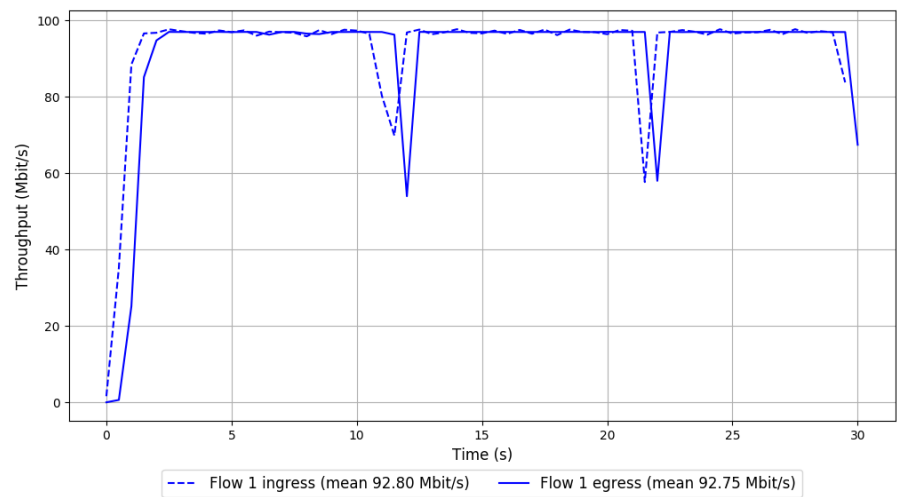
-- Flow 1:

Average throughput: 92.75 Mbit/s

95th percentile per-packet one-way delay: 87.845 ms

Loss rate: 0.61%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-07-18 02:14:22

End at: 2018-07-18 02:14:52

Local clock offset: -2.65 ms

Remote clock offset: 6.698 ms

Below is generated by plot.py at 2018-07-18 04:34:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.47 Mbit/s

95th percentile per-packet one-way delay: 93.083 ms

Loss rate: 13.21%

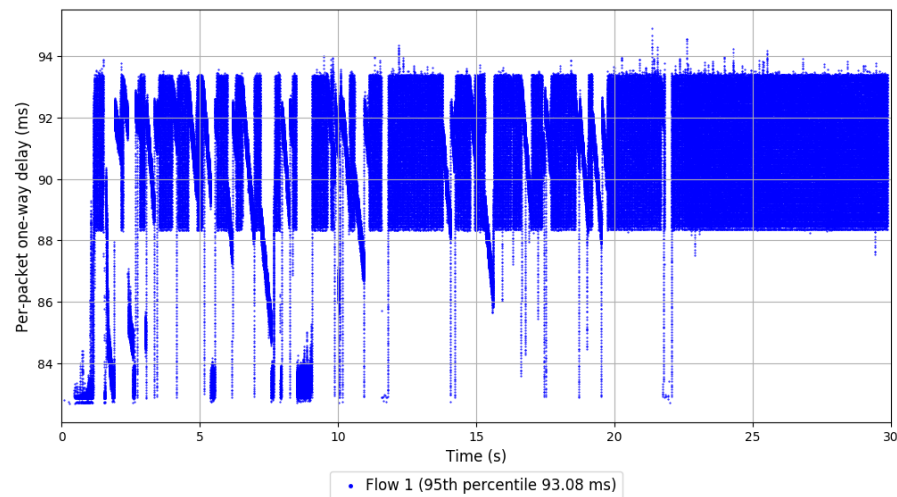
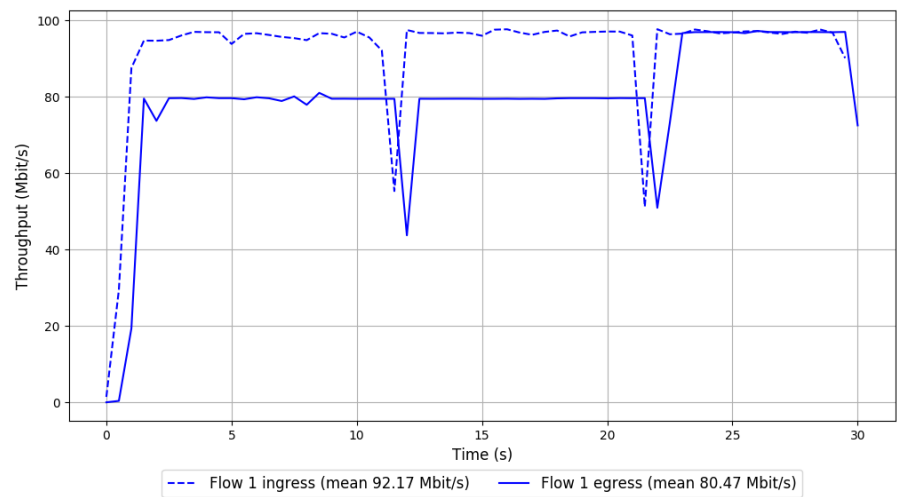
-- Flow 1:

Average throughput: 80.47 Mbit/s

95th percentile per-packet one-way delay: 93.083 ms

Loss rate: 13.21%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-07-18 02:34:09

End at: 2018-07-18 02:34:39

Local clock offset: -2.63 ms

Remote clock offset: 10.951 ms

Below is generated by plot.py at 2018-07-18 04:34:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.83 Mbit/s

95th percentile per-packet one-way delay: 89.151 ms

Loss rate: 0.62%

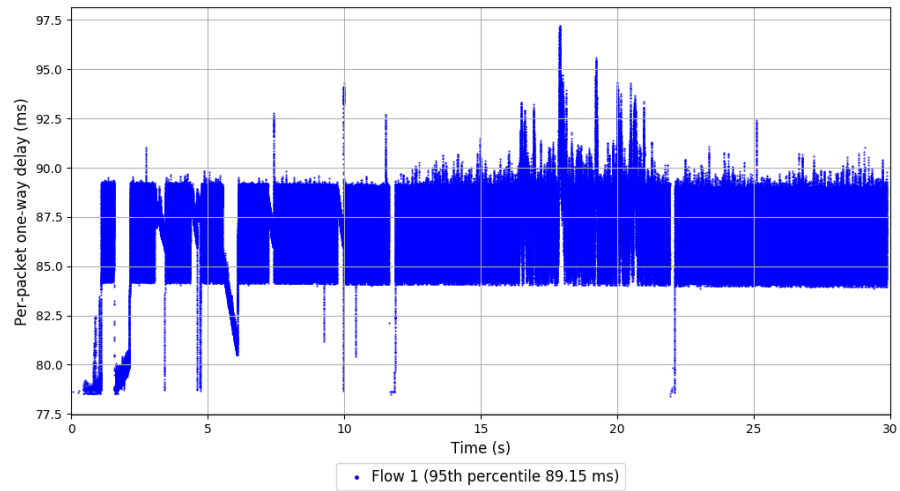
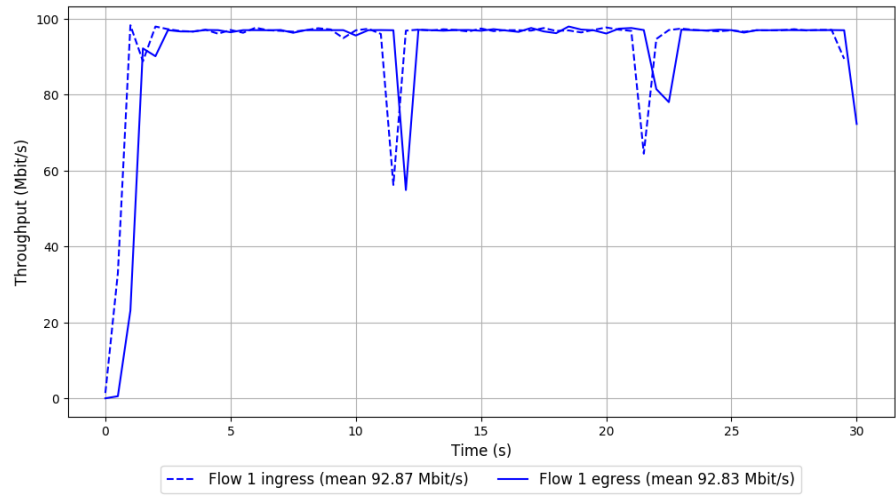
-- Flow 1:

Average throughput: 92.83 Mbit/s

95th percentile per-packet one-way delay: 89.151 ms

Loss rate: 0.62%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-07-18 02:53:57

End at: 2018-07-18 02:54:27

Local clock offset: -2.604 ms

Remote clock offset: 6.273 ms

Below is generated by plot.py at 2018-07-18 04:34:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.47 Mbit/s

95th percentile per-packet one-way delay: 88.413 ms

Loss rate: 0.62%

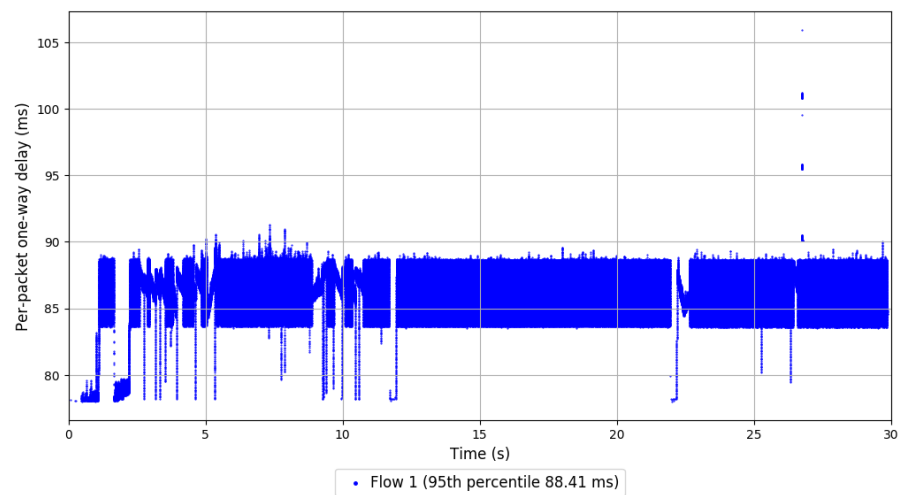
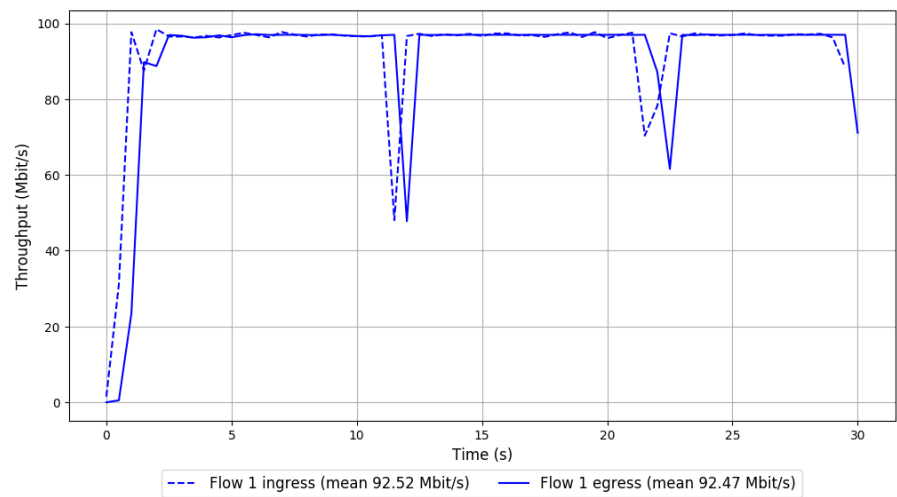
-- Flow 1:

Average throughput: 92.47 Mbit/s

95th percentile per-packet one-way delay: 88.413 ms

Loss rate: 0.62%

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-07-18 03:13:52

End at: 2018-07-18 03:14:22

Local clock offset: -3.048 ms

Remote clock offset: 0.973 ms

Below is generated by plot.py at 2018-07-18 04:35:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.10 Mbit/s

95th percentile per-packet one-way delay: 96.305 ms

Loss rate: 0.61%

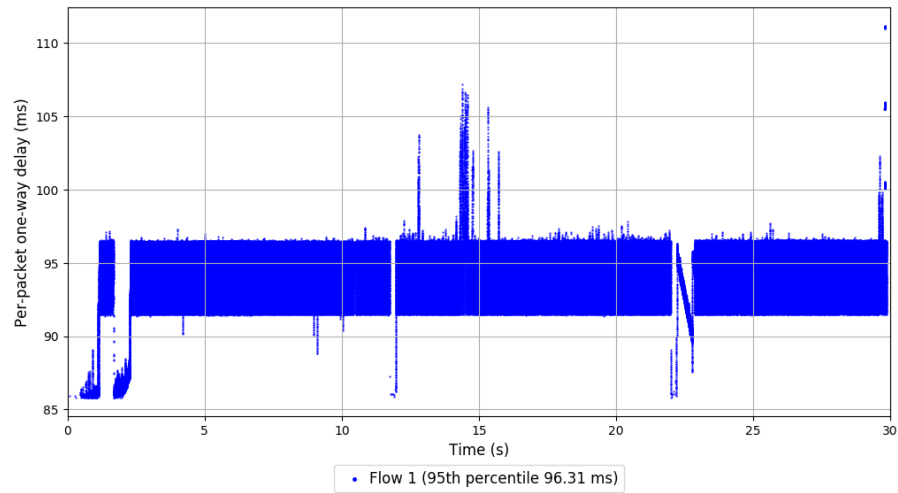
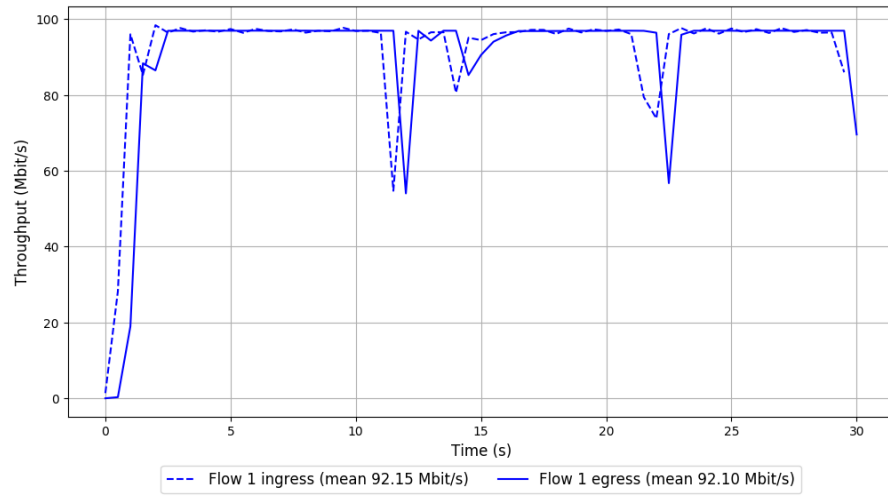
-- Flow 1:

Average throughput: 92.10 Mbit/s

95th percentile per-packet one-way delay: 96.305 ms

Loss rate: 0.61%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-07-18 03:33:45

End at: 2018-07-18 03:34:15

Local clock offset: -2.766 ms

Remote clock offset: 1.81 ms

Below is generated by plot.py at 2018-07-18 04:35:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.75 Mbit/s

95th percentile per-packet one-way delay: 95.255 ms

Loss rate: 0.61%

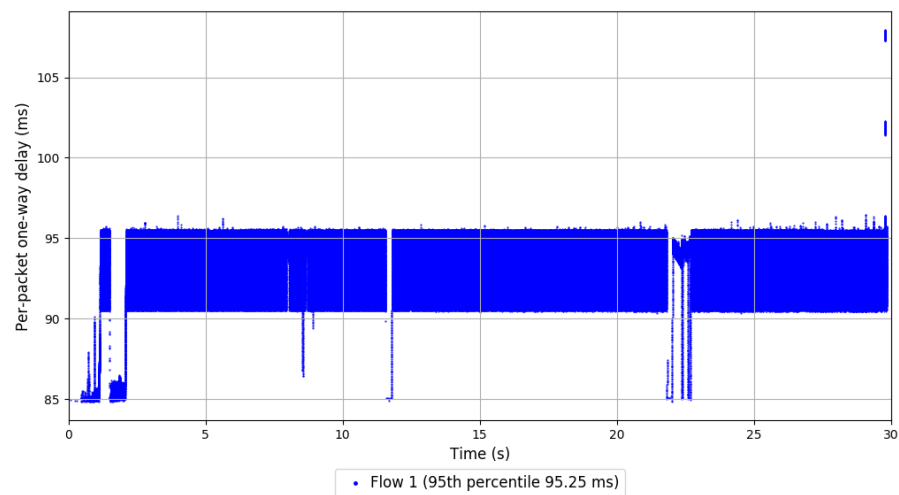
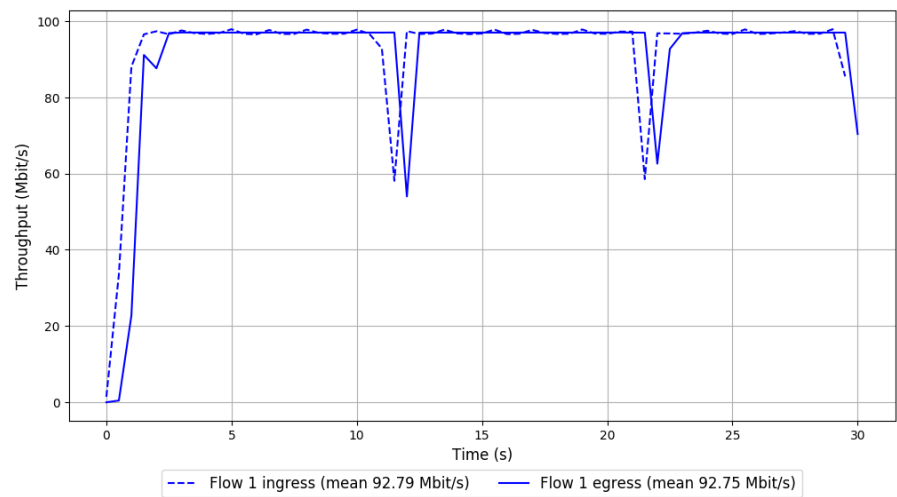
-- Flow 1:

Average throughput: 92.75 Mbit/s

95th percentile per-packet one-way delay: 95.255 ms

Loss rate: 0.61%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-18 03:53:35

End at: 2018-07-18 03:54:05

Local clock offset: -2.475 ms

Remote clock offset: 3.27 ms

Below is generated by plot.py at 2018-07-18 04:35:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.62 Mbit/s

95th percentile per-packet one-way delay: 95.302 ms

Loss rate: 0.61%

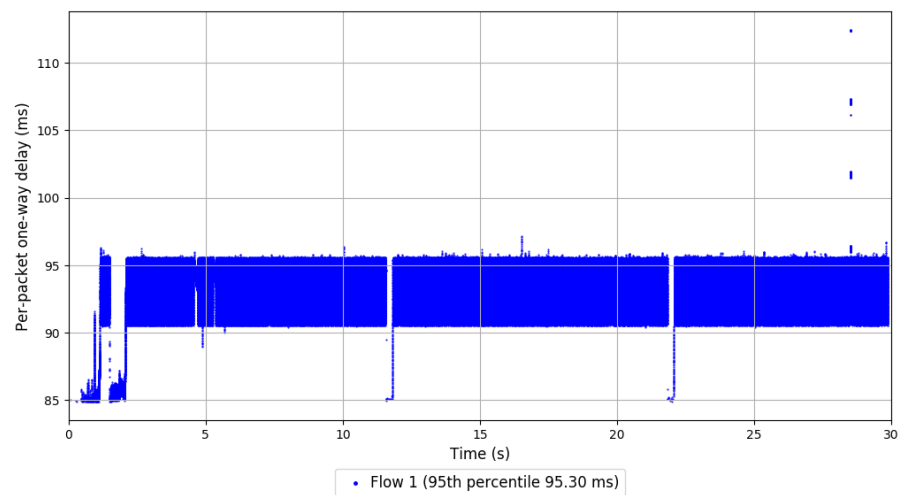
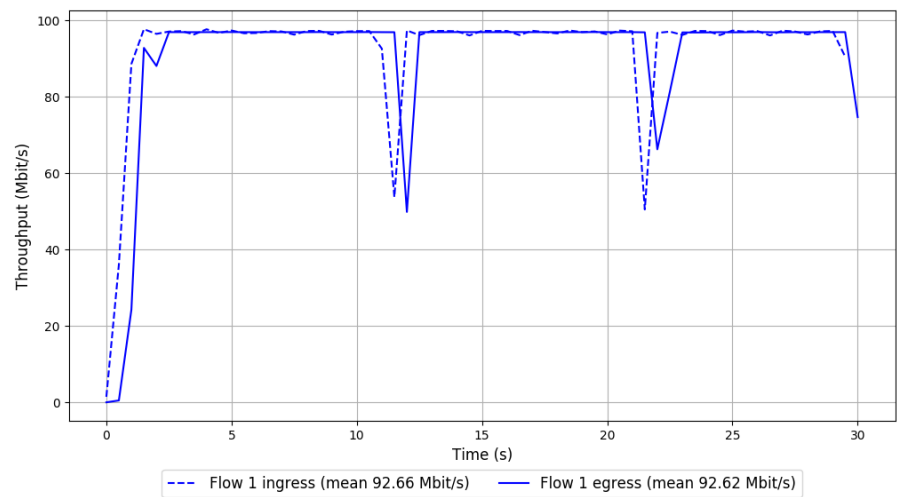
-- Flow 1:

Average throughput: 92.62 Mbit/s

95th percentile per-packet one-way delay: 95.302 ms

Loss rate: 0.61%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-07-18 04:13:25

End at: 2018-07-18 04:13:55

Local clock offset: -2.08 ms

Remote clock offset: 7.587 ms

Below is generated by plot.py at 2018-07-18 04:35:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.72 Mbit/s

95th percentile per-packet one-way delay: 88.988 ms

Loss rate: 0.60%

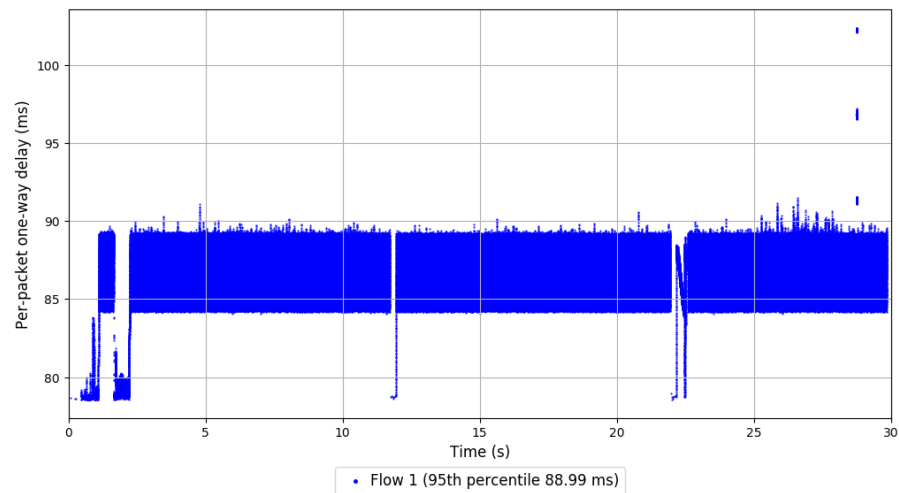
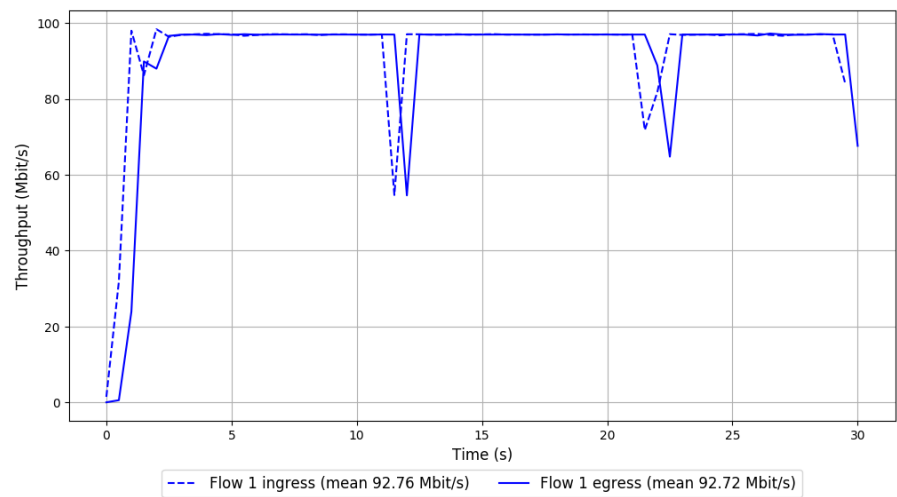
-- Flow 1:

Average throughput: 92.72 Mbit/s

95th percentile per-packet one-way delay: 88.988 ms

Loss rate: 0.60%

Run 10: Report of FillP-Sheep — Data Link

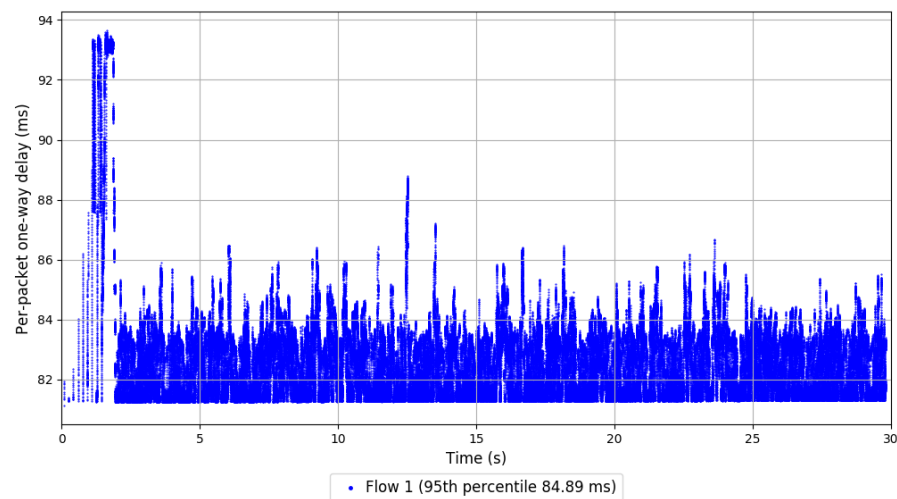
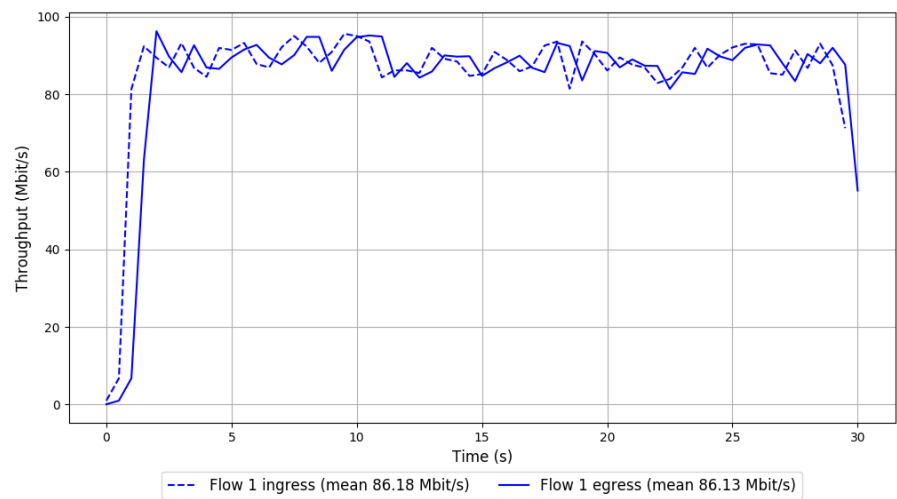


Run 1: Statistics of Indigo

Start at: 2018-07-18 01:08:15
End at: 2018-07-18 01:08:45
Local clock offset: -2.315 ms
Remote clock offset: 12.079 ms

Below is generated by plot.py at 2018-07-18 04:35:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.13 Mbit/s
95th percentile per-packet one-way delay: 84.890 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 86.13 Mbit/s
95th percentile per-packet one-way delay: 84.890 ms
Loss rate: 0.61%

Run 1: Report of Indigo — Data Link

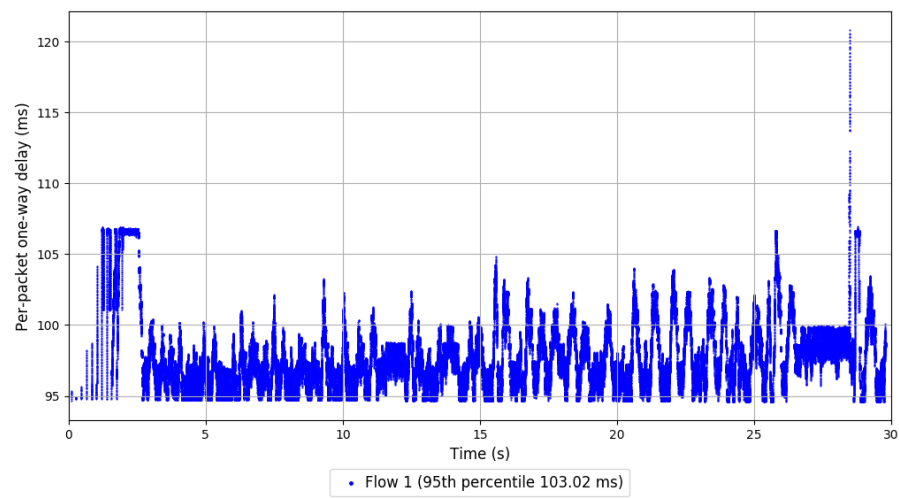
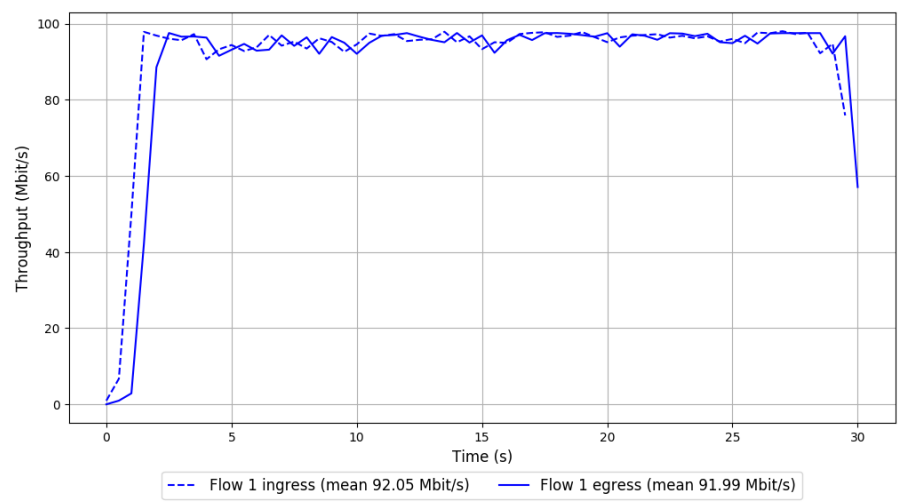


Run 2: Statistics of Indigo

Start at: 2018-07-18 01:27:56
End at: 2018-07-18 01:28:26
Local clock offset: -2.196 ms
Remote clock offset: 12.407 ms

Below is generated by plot.py at 2018-07-18 04:35:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.99 Mbit/s
95th percentile per-packet one-way delay: 103.015 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 91.99 Mbit/s
95th percentile per-packet one-way delay: 103.015 ms
Loss rate: 0.67%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-07-18 01:47:42

End at: 2018-07-18 01:48:12

Local clock offset: -2.417 ms

Remote clock offset: 5.585 ms

Below is generated by plot.py at 2018-07-18 04:35:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.56 Mbit/s

95th percentile per-packet one-way delay: 91.875 ms

Loss rate: 0.60%

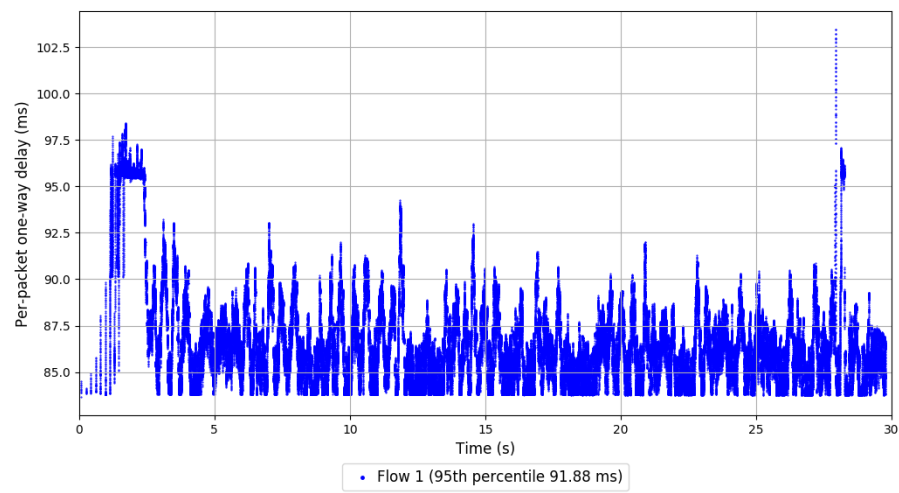
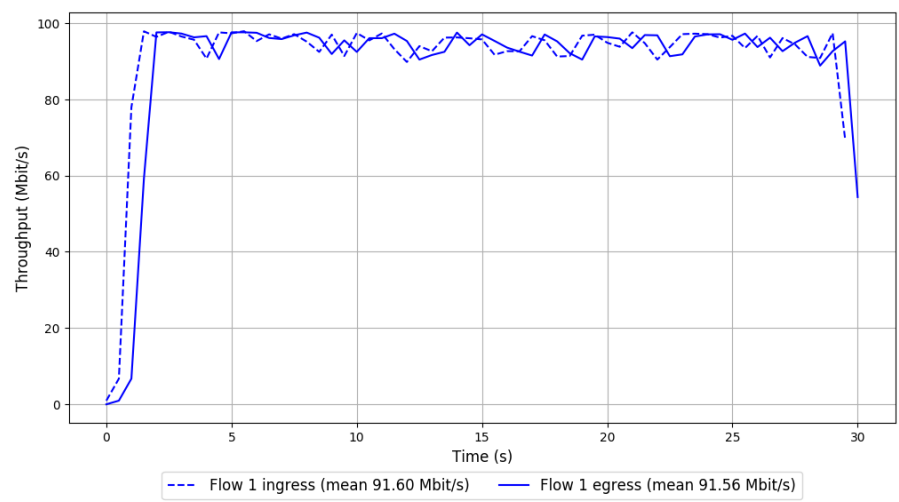
-- Flow 1:

Average throughput: 91.56 Mbit/s

95th percentile per-packet one-way delay: 91.875 ms

Loss rate: 0.60%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-07-18 02:07:24

End at: 2018-07-18 02:07:54

Local clock offset: -2.541 ms

Remote clock offset: 7.16 ms

Below is generated by plot.py at 2018-07-18 04:35:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.06 Mbit/s

95th percentile per-packet one-way delay: 85.983 ms

Loss rate: 0.58%

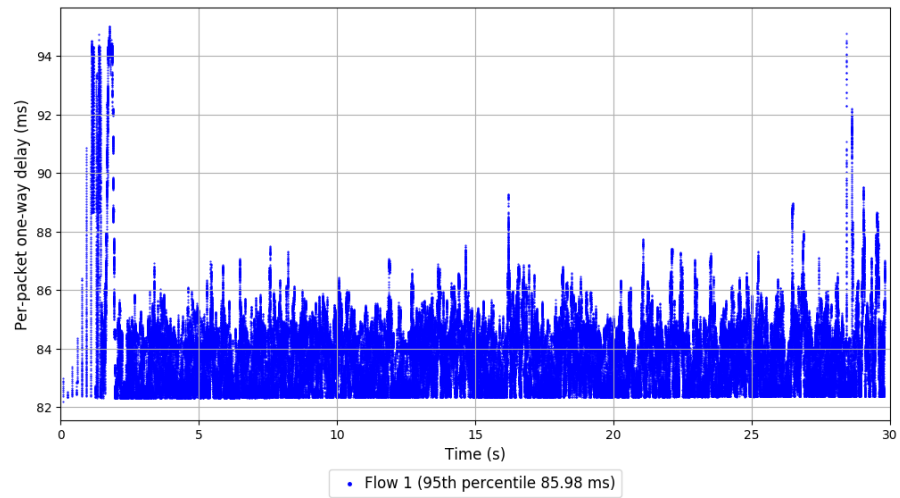
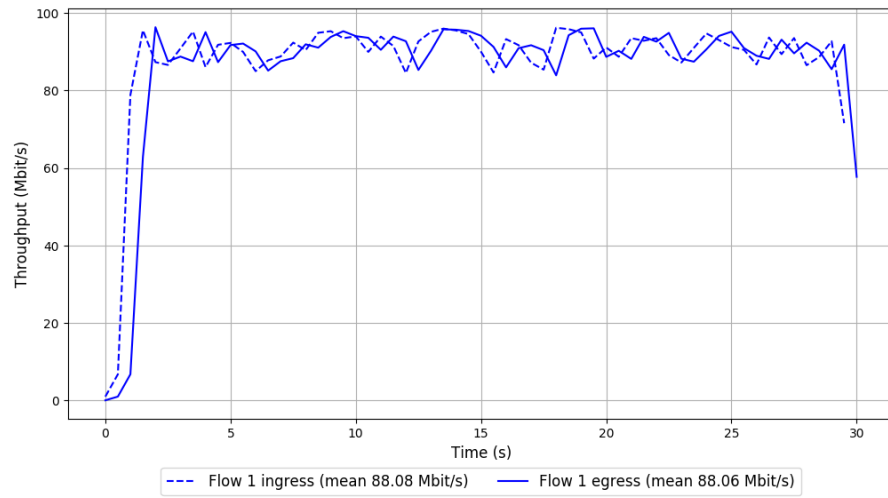
-- Flow 1:

Average throughput: 88.06 Mbit/s

95th percentile per-packet one-way delay: 85.983 ms

Loss rate: 0.58%

Run 4: Report of Indigo — Data Link

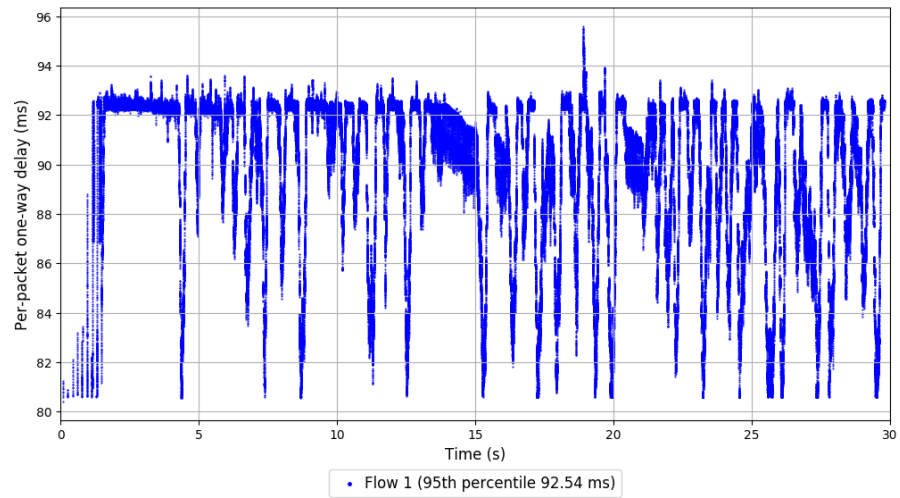
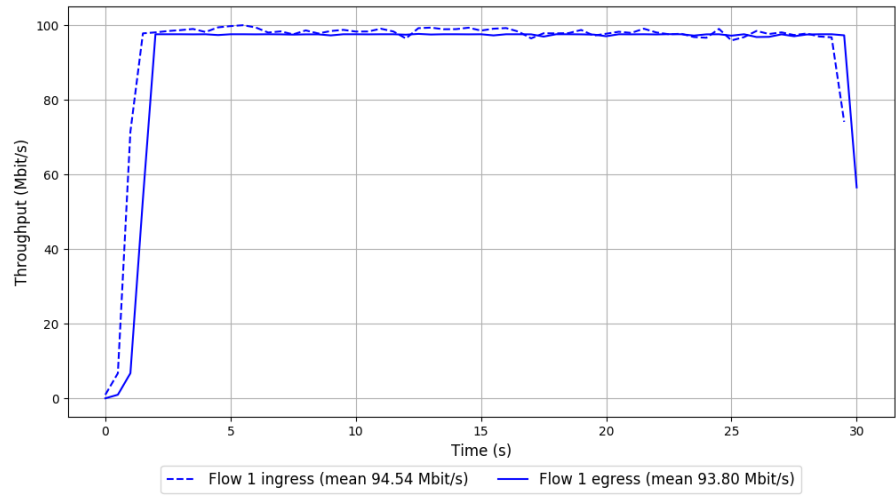


Run 5: Statistics of Indigo

Start at: 2018-07-18 02:27:10
End at: 2018-07-18 02:27:40
Local clock offset: -2.638 ms
Remote clock offset: 11.871 ms

Below is generated by plot.py at 2018-07-18 04:36:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.80 Mbit/s
95th percentile per-packet one-way delay: 92.541 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 93.80 Mbit/s
95th percentile per-packet one-way delay: 92.541 ms
Loss rate: 1.33%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-07-18 02:46:58

End at: 2018-07-18 02:47:28

Local clock offset: -2.632 ms

Remote clock offset: 3.357 ms

Below is generated by plot.py at 2018-07-18 04:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.60 Mbit/s

95th percentile per-packet one-way delay: 94.585 ms

Loss rate: 0.85%

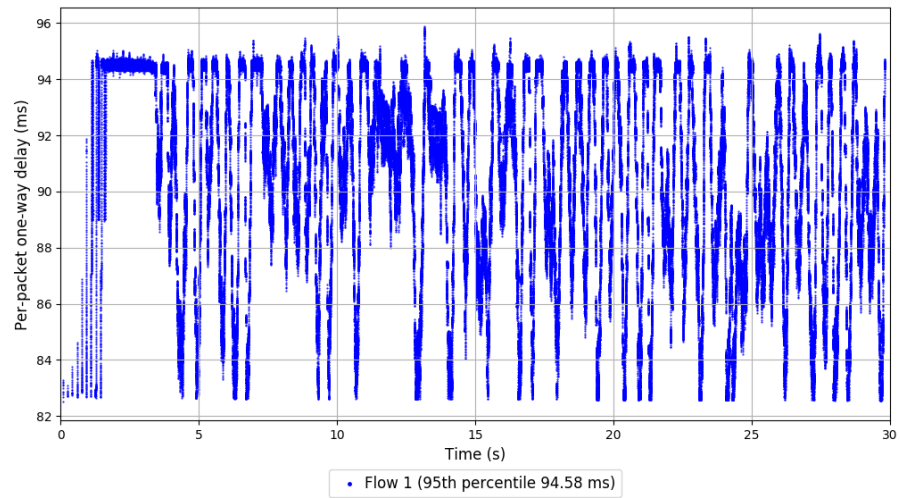
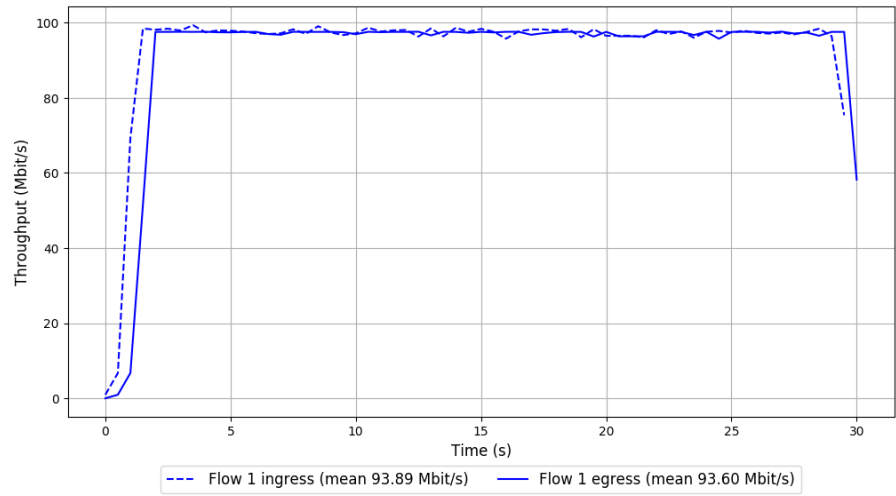
-- Flow 1:

Average throughput: 93.60 Mbit/s

95th percentile per-packet one-way delay: 94.585 ms

Loss rate: 0.85%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-07-18 03:06:52

End at: 2018-07-18 03:07:22

Local clock offset: -2.971 ms

Remote clock offset: 0.138 ms

Below is generated by plot.py at 2018-07-18 04:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.01 Mbit/s

95th percentile per-packet one-way delay: 97.823 ms

Loss rate: 5.65%

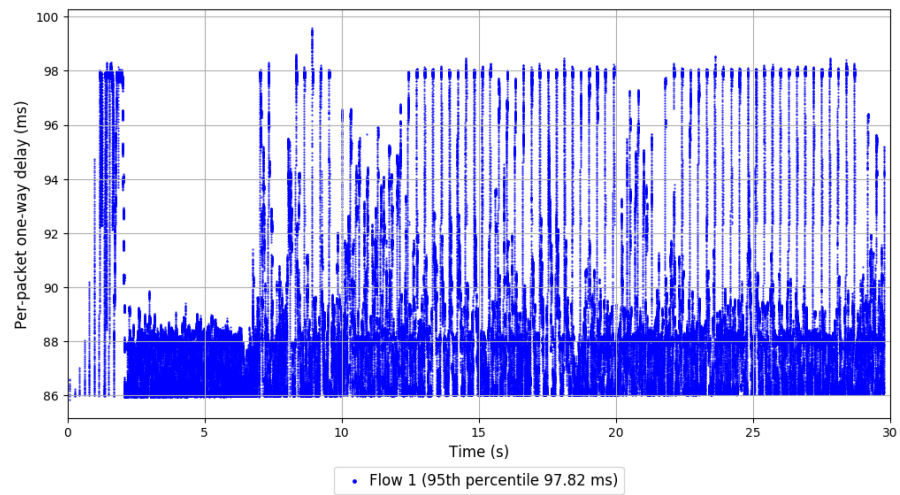
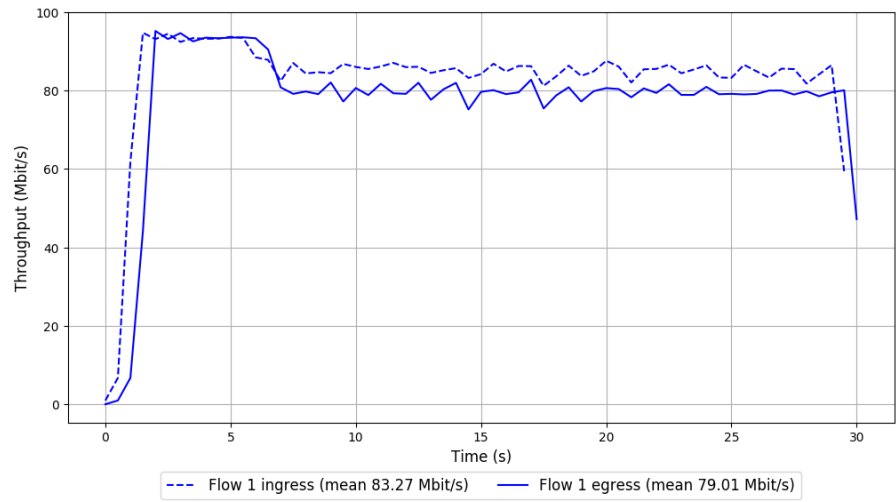
-- Flow 1:

Average throughput: 79.01 Mbit/s

95th percentile per-packet one-way delay: 97.823 ms

Loss rate: 5.65%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-07-18 03:26:44

End at: 2018-07-18 03:27:14

Local clock offset: -3.034 ms

Remote clock offset: 6.881 ms

Below is generated by plot.py at 2018-07-18 04:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.66 Mbit/s

95th percentile per-packet one-way delay: 92.221 ms

Loss rate: 9.00%

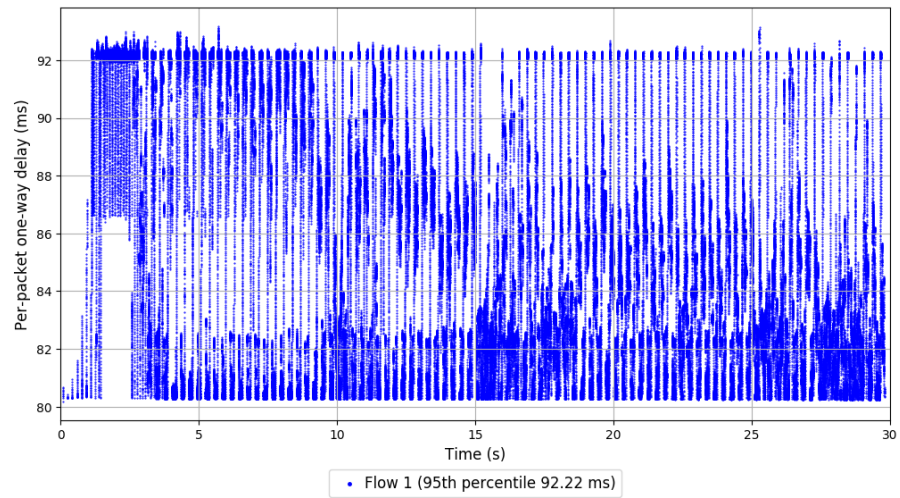
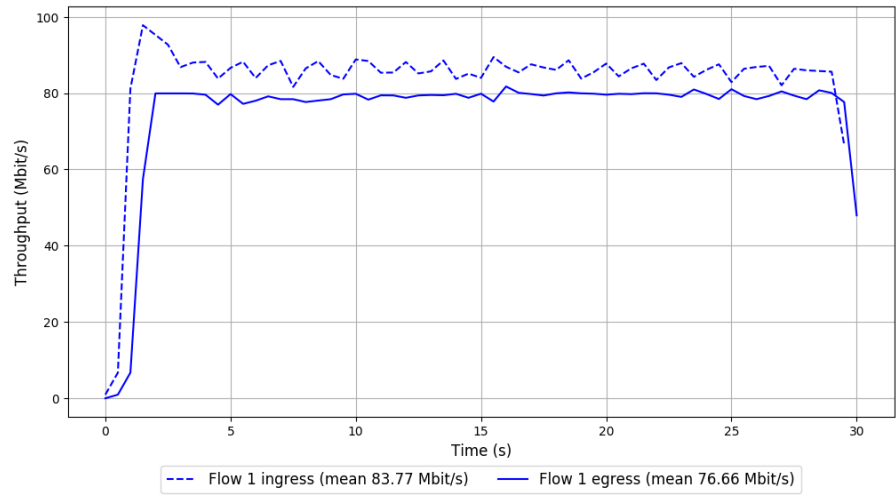
-- Flow 1:

Average throughput: 76.66 Mbit/s

95th percentile per-packet one-way delay: 92.221 ms

Loss rate: 9.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-07-18 03:46:35

End at: 2018-07-18 03:47:05

Local clock offset: -2.554 ms

Remote clock offset: 3.752 ms

Below is generated by plot.py at 2018-07-18 04:36:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.00 Mbit/s

95th percentile per-packet one-way delay: 96.170 ms

Loss rate: 5.05%

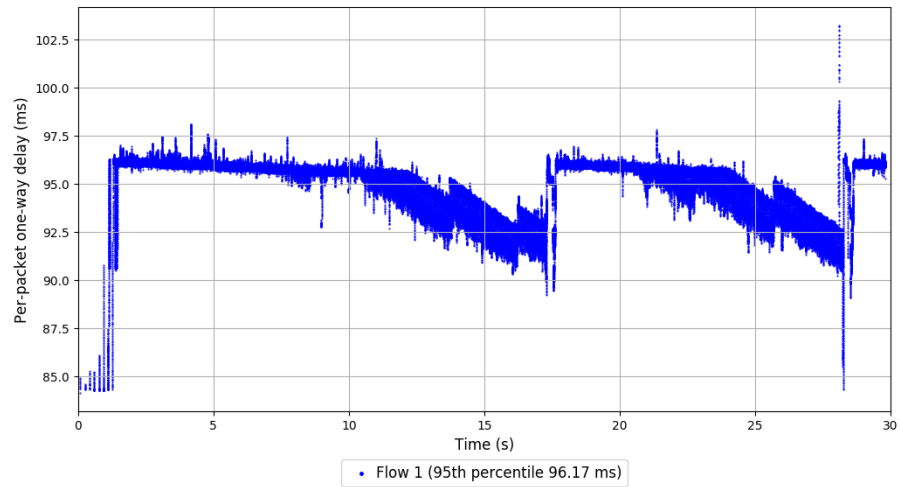
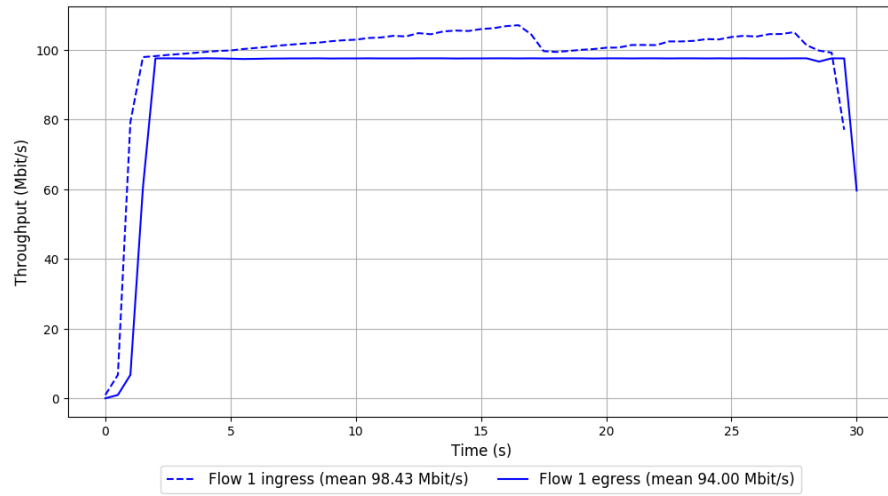
-- Flow 1:

Average throughput: 94.00 Mbit/s

95th percentile per-packet one-way delay: 96.170 ms

Loss rate: 5.05%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-18 04:06:26

End at: 2018-07-18 04:06:56

Local clock offset: -2.16 ms

Remote clock offset: 3.506 ms

Below is generated by plot.py at 2018-07-18 04:36:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.63 Mbit/s

95th percentile per-packet one-way delay: 91.859 ms

Loss rate: 0.59%

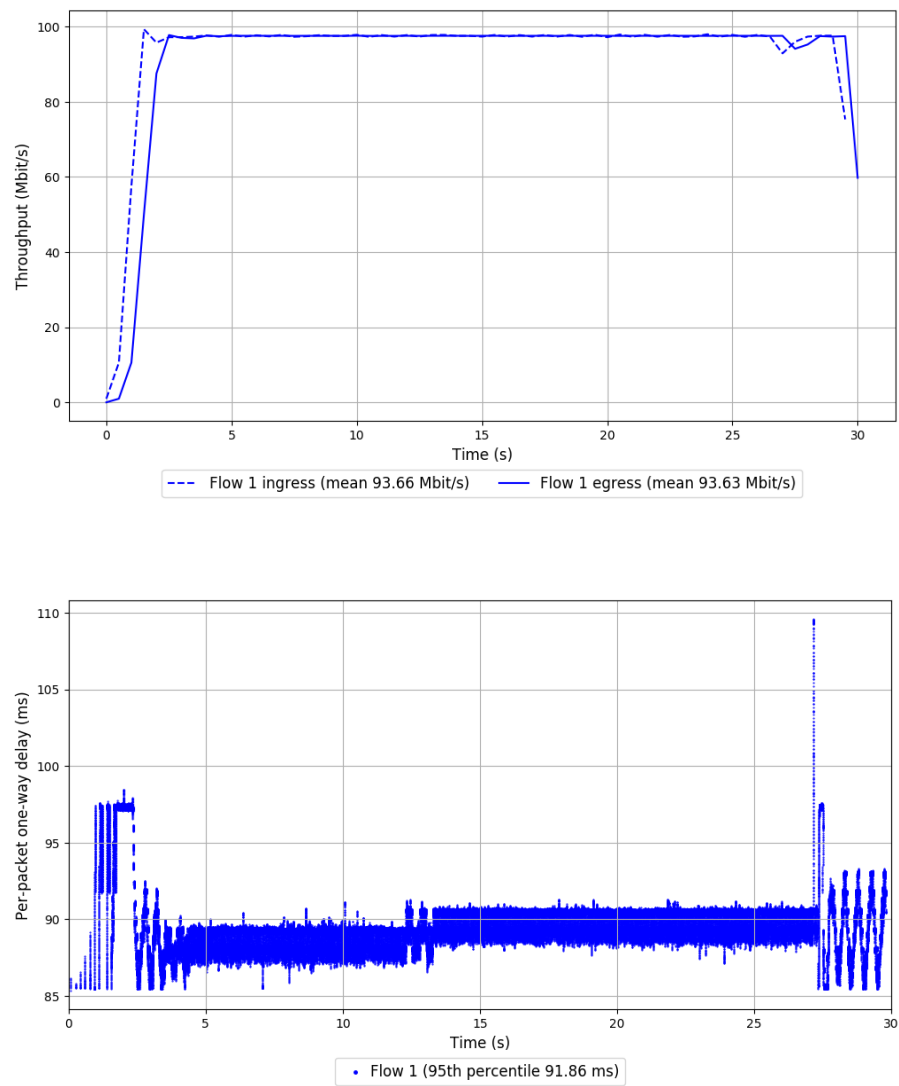
-- Flow 1:

Average throughput: 93.63 Mbit/s

95th percentile per-packet one-way delay: 91.859 ms

Loss rate: 0.59%

Run 10: Report of Indigo — Data Link



Run 1: Statistics of LEDBAT

Start at: 2018-07-18 01:18:43

End at: 2018-07-18 01:19:13

Local clock offset: -2.199 ms

Remote clock offset: 9.303 ms

Below is generated by plot.py at 2018-07-18 04:36:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.98 Mbit/s

95th percentile per-packet one-way delay: 84.544 ms

Loss rate: 1.11%

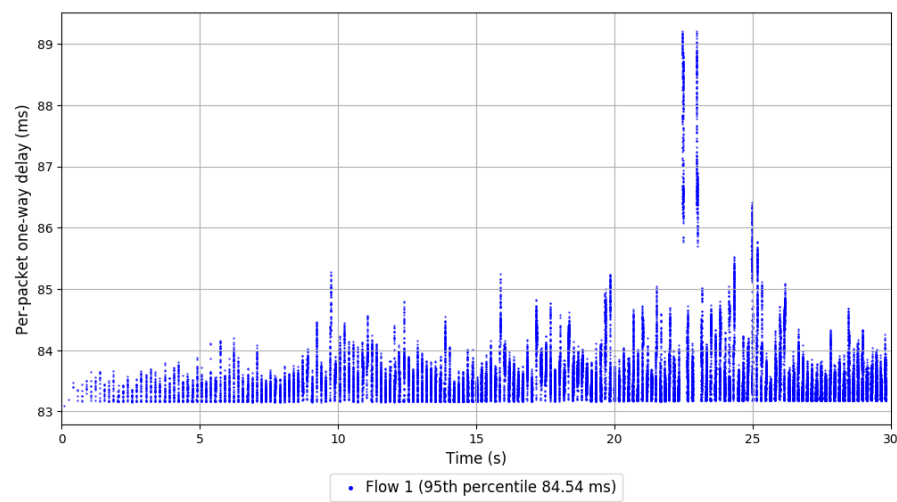
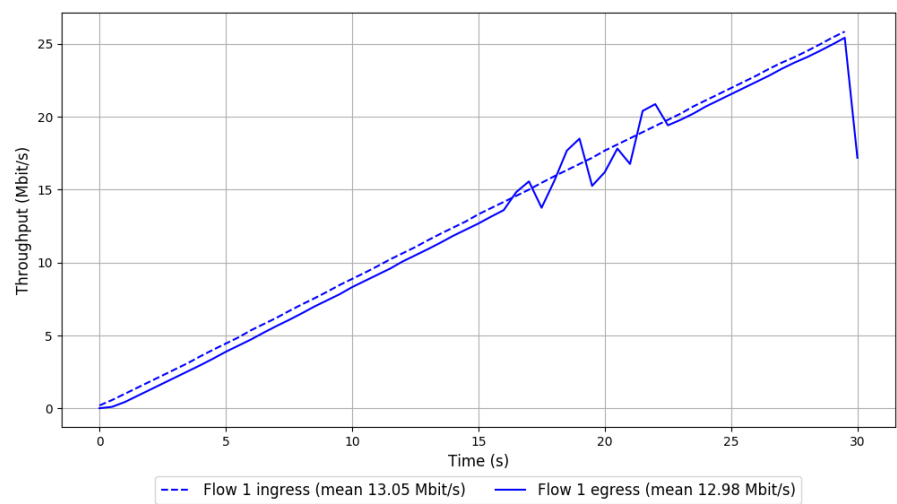
-- Flow 1:

Average throughput: 12.98 Mbit/s

95th percentile per-packet one-way delay: 84.544 ms

Loss rate: 1.11%

Run 1: Report of LEDBAT — Data Link

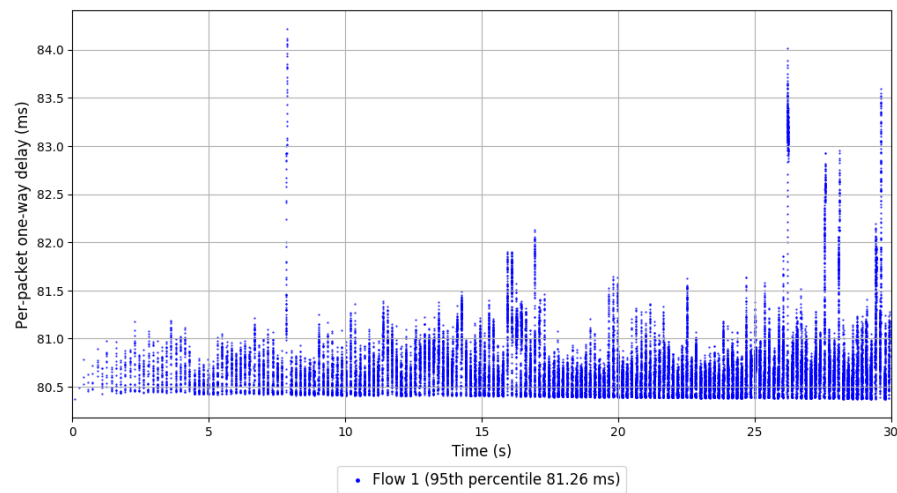
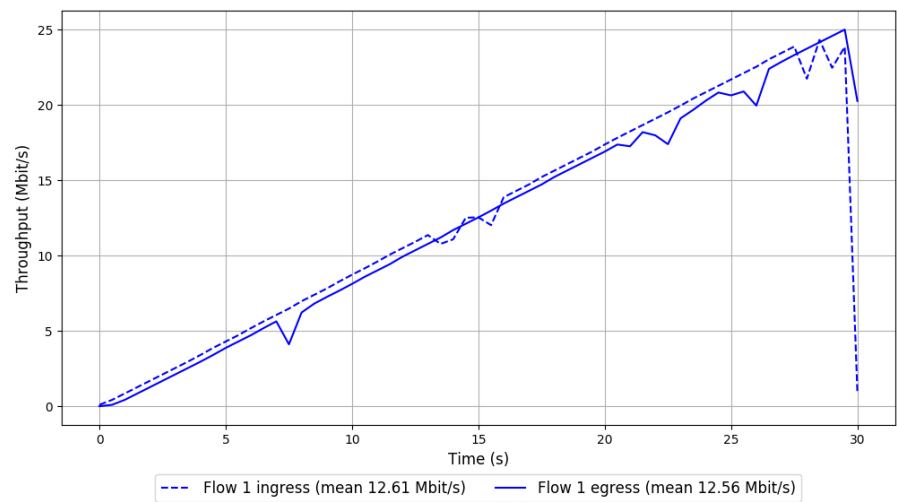


Run 2: Statistics of LEDBAT

Start at: 2018-07-18 01:38:25
End at: 2018-07-18 01:38:56
Local clock offset: -2.414 ms
Remote clock offset: 10.136 ms

Below is generated by plot.py at 2018-07-18 04:36:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.56 Mbit/s
95th percentile per-packet one-way delay: 81.261 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 12.56 Mbit/s
95th percentile per-packet one-way delay: 81.261 ms
Loss rate: 0.96%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-07-18 01:58:13

End at: 2018-07-18 01:58:43

Local clock offset: -2.42 ms

Remote clock offset: 8.303 ms

Below is generated by plot.py at 2018-07-18 04:36:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.40 Mbit/s

95th percentile per-packet one-way delay: 82.390 ms

Loss rate: 1.13%

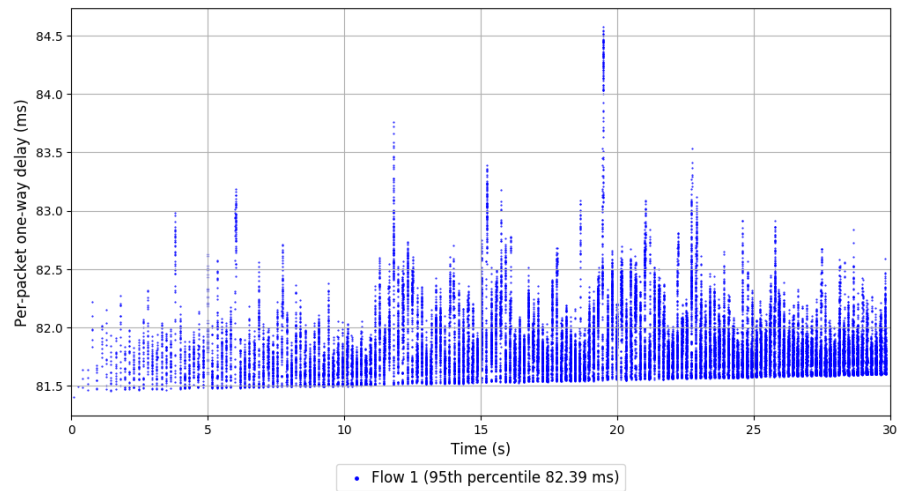
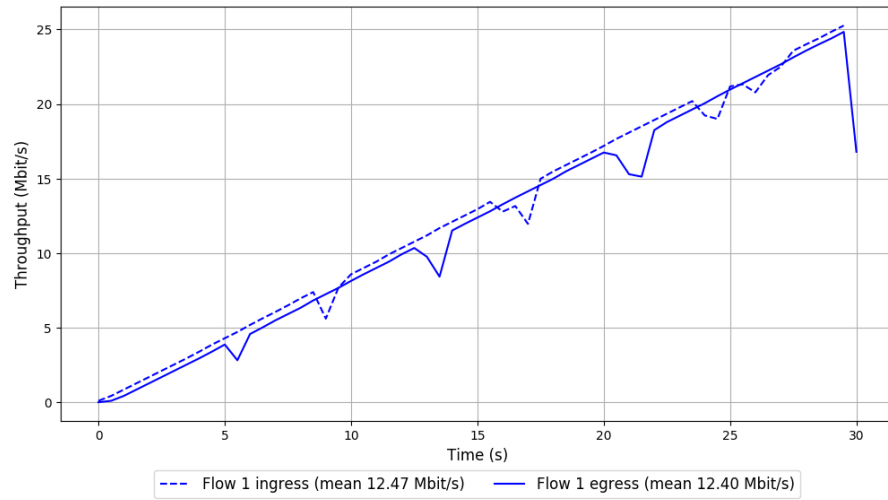
-- Flow 1:

Average throughput: 12.40 Mbit/s

95th percentile per-packet one-way delay: 82.390 ms

Loss rate: 1.13%

Run 3: Report of LEDBAT — Data Link

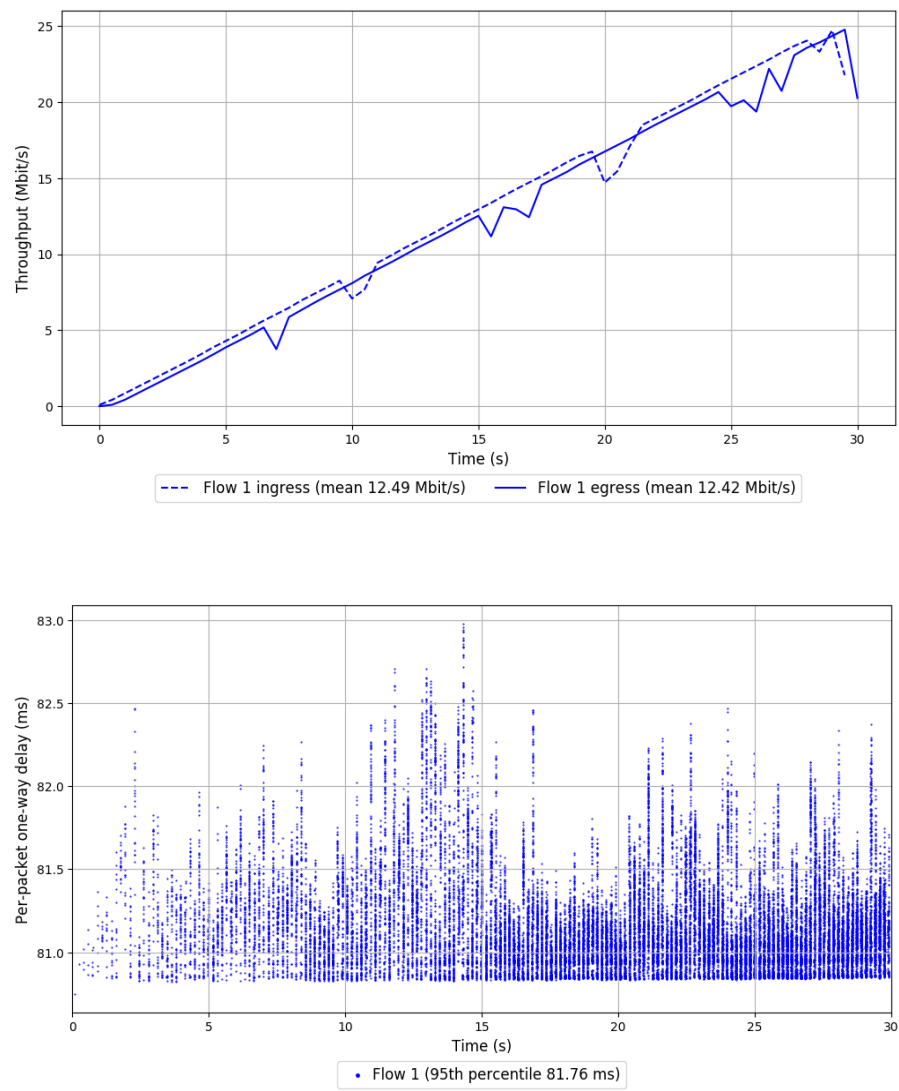


Run 4: Statistics of LEDBAT

Start at: 2018-07-18 02:17:56
End at: 2018-07-18 02:18:26
Local clock offset: -2.638 ms
Remote clock offset: 11.421 ms

Below is generated by plot.py at 2018-07-18 04:36:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.42 Mbit/s
95th percentile per-packet one-way delay: 81.763 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 12.42 Mbit/s
95th percentile per-packet one-way delay: 81.763 ms
Loss rate: 1.13%

Run 4: Report of LEDBAT — Data Link

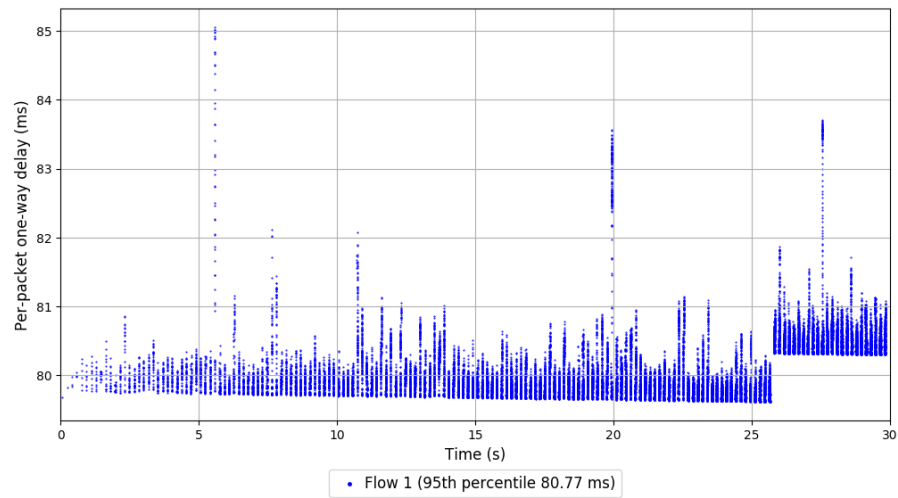
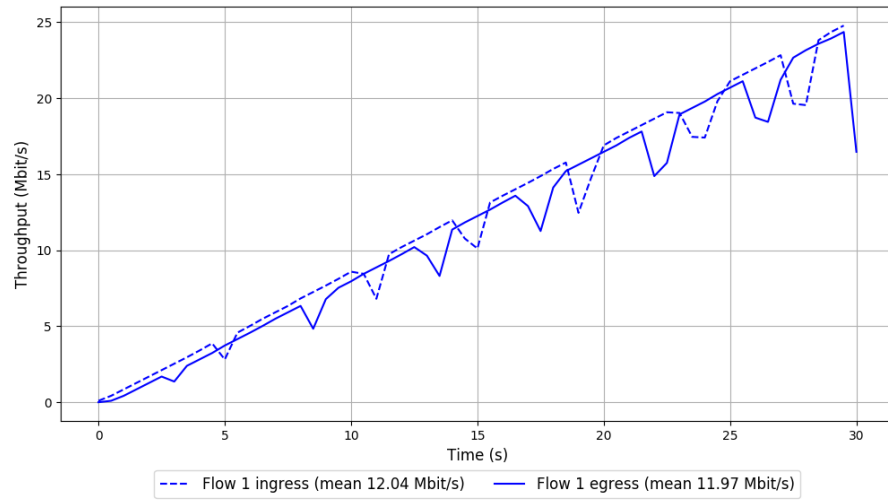


Run 5: Statistics of LEDBAT

Start at: 2018-07-18 02:37:41
End at: 2018-07-18 02:38:11
Local clock offset: -2.707 ms
Remote clock offset: 10.463 ms

Below is generated by plot.py at 2018-07-18 04:36:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 11.97 Mbit/s
95th percentile per-packet one-way delay: 80.765 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 11.97 Mbit/s
95th percentile per-packet one-way delay: 80.765 ms
Loss rate: 1.15%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-07-18 02:57:31

End at: 2018-07-18 02:58:01

Local clock offset: -2.688 ms

Remote clock offset: 7.016 ms

Below is generated by plot.py at 2018-07-18 04:36:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.51 Mbit/s

95th percentile per-packet one-way delay: 80.724 ms

Loss rate: 1.13%

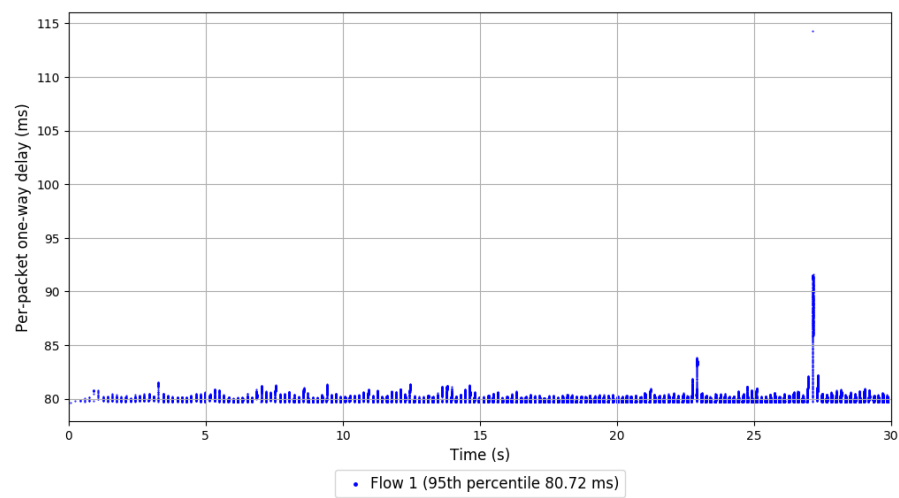
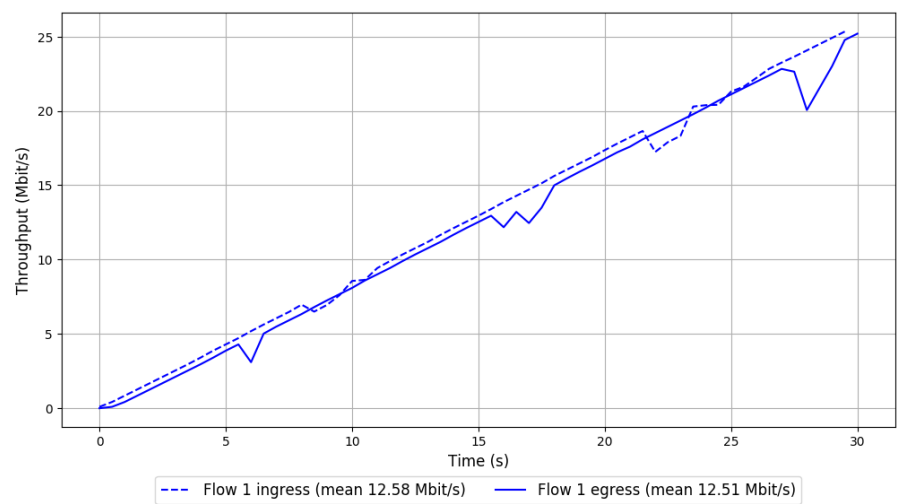
-- Flow 1:

Average throughput: 12.51 Mbit/s

95th percentile per-packet one-way delay: 80.724 ms

Loss rate: 1.13%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-07-18 03:17:26

End at: 2018-07-18 03:17:56

Local clock offset: -3.077 ms

Remote clock offset: 6.298 ms

Below is generated by plot.py at 2018-07-18 04:36:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.25 Mbit/s

95th percentile per-packet one-way delay: 79.861 ms

Loss rate: 1.14%

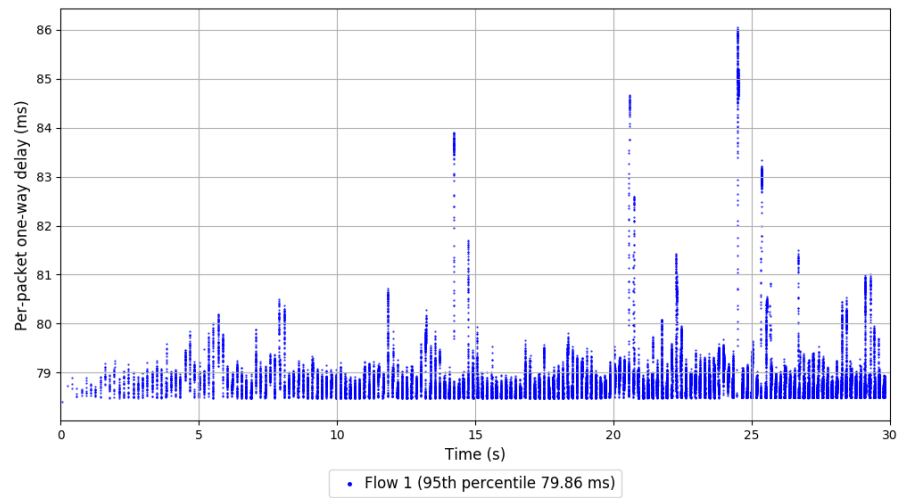
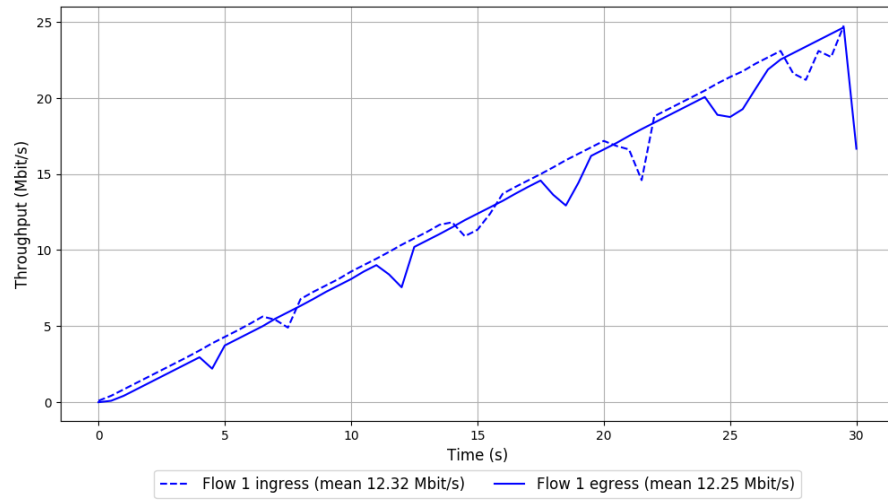
-- Flow 1:

Average throughput: 12.25 Mbit/s

95th percentile per-packet one-way delay: 79.861 ms

Loss rate: 1.14%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-07-18 03:37:20

End at: 2018-07-18 03:37:50

Local clock offset: -2.684 ms

Remote clock offset: 7.729 ms

Below is generated by plot.py at 2018-07-18 04:36:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.54 Mbit/s

95th percentile per-packet one-way delay: 77.616 ms

Loss rate: 1.13%

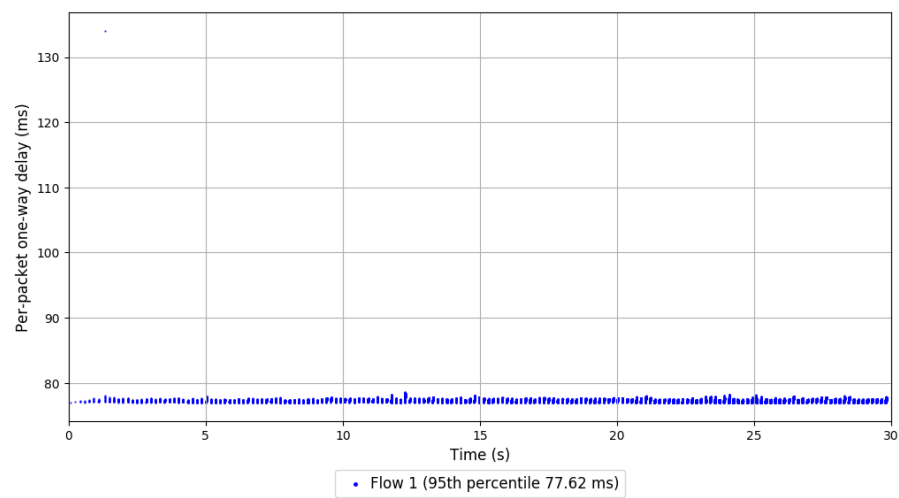
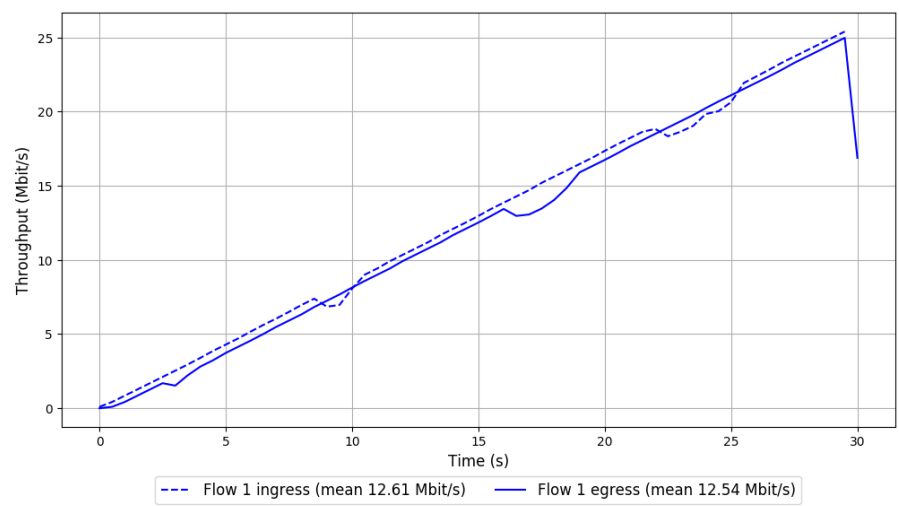
-- Flow 1:

Average throughput: 12.54 Mbit/s

95th percentile per-packet one-way delay: 77.616 ms

Loss rate: 1.13%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-18 03:57:09

End at: 2018-07-18 03:57:39

Local clock offset: -2.389 ms

Remote clock offset: 4.458 ms

Below is generated by plot.py at 2018-07-18 04:36:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.83 Mbit/s

95th percentile per-packet one-way delay: 85.051 ms

Loss rate: 1.11%

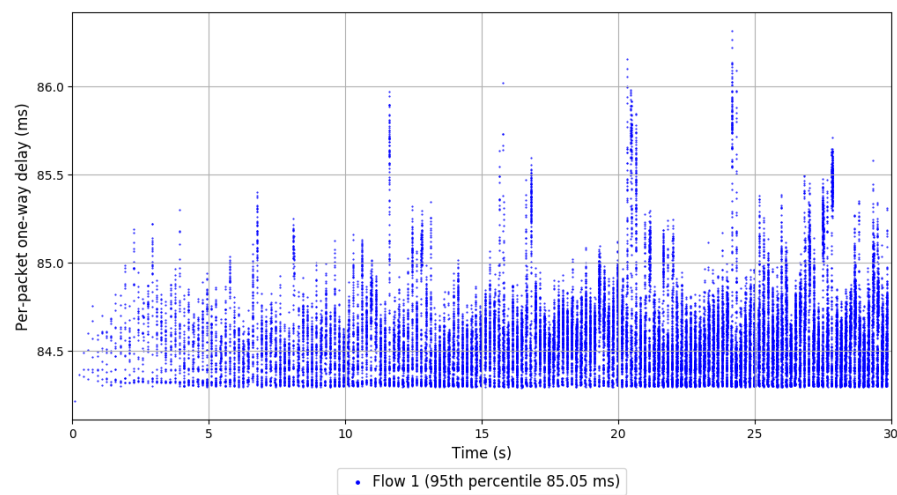
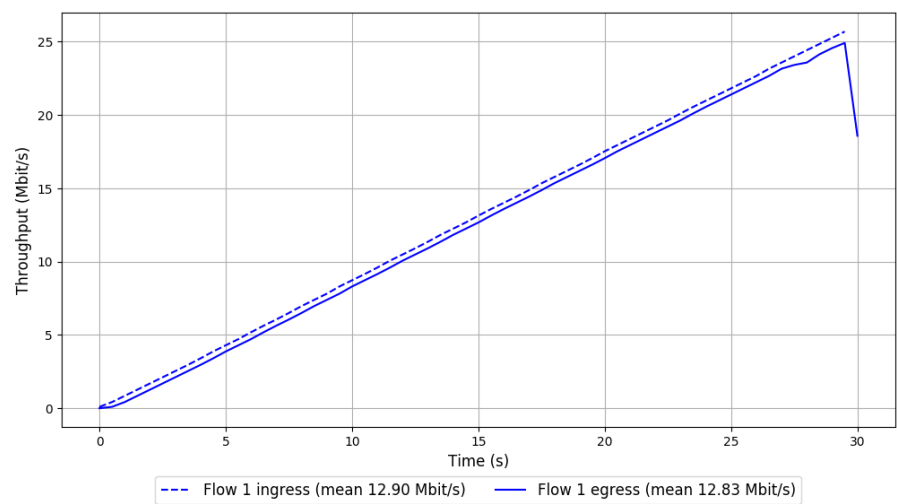
-- Flow 1:

Average throughput: 12.83 Mbit/s

95th percentile per-packet one-way delay: 85.051 ms

Loss rate: 1.11%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-18 04:16:59

End at: 2018-07-18 04:17:29

Local clock offset: -2.015 ms

Remote clock offset: 9.239 ms

Below is generated by plot.py at 2018-07-18 04:36:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.10 Mbit/s

95th percentile per-packet one-way delay: 84.923 ms

Loss rate: 1.10%

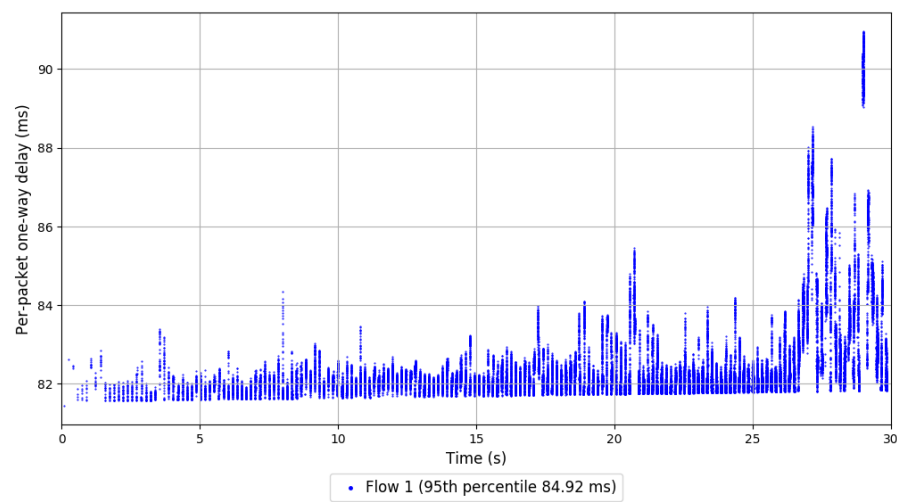
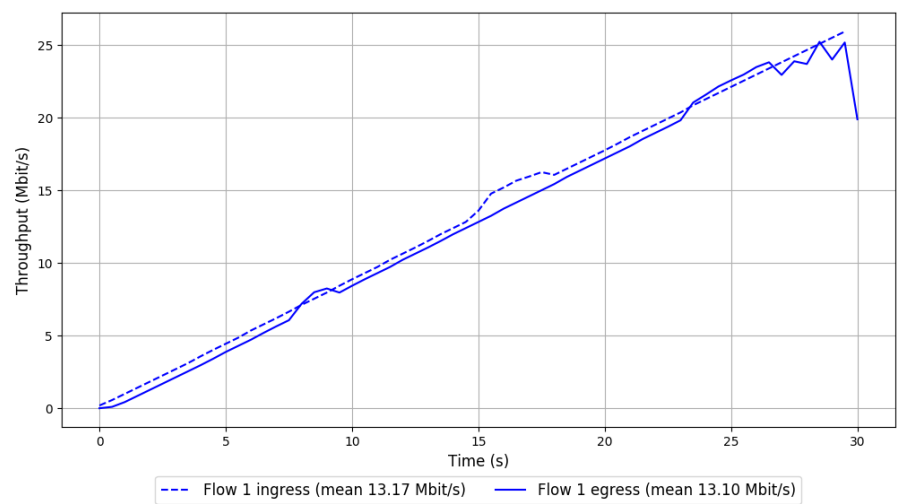
-- Flow 1:

Average throughput: 13.10 Mbit/s

95th percentile per-packet one-way delay: 84.923 ms

Loss rate: 1.10%

Run 10: Report of LEDBAT — Data Link

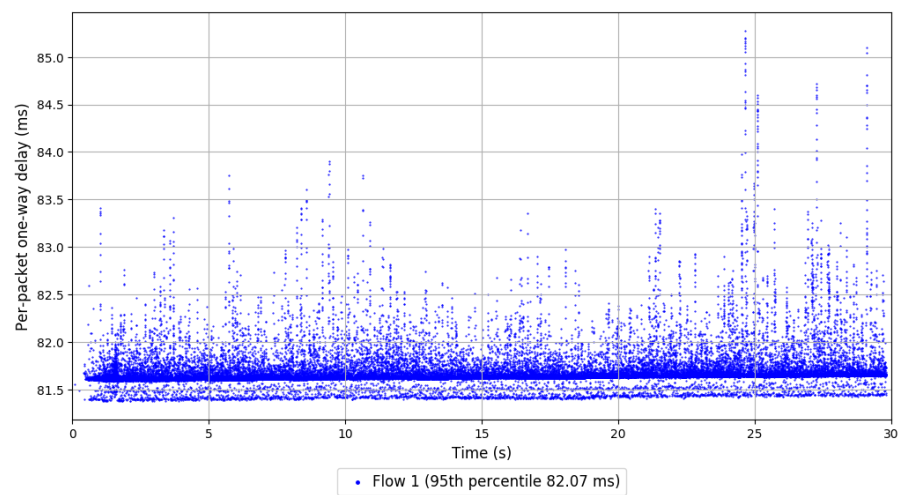
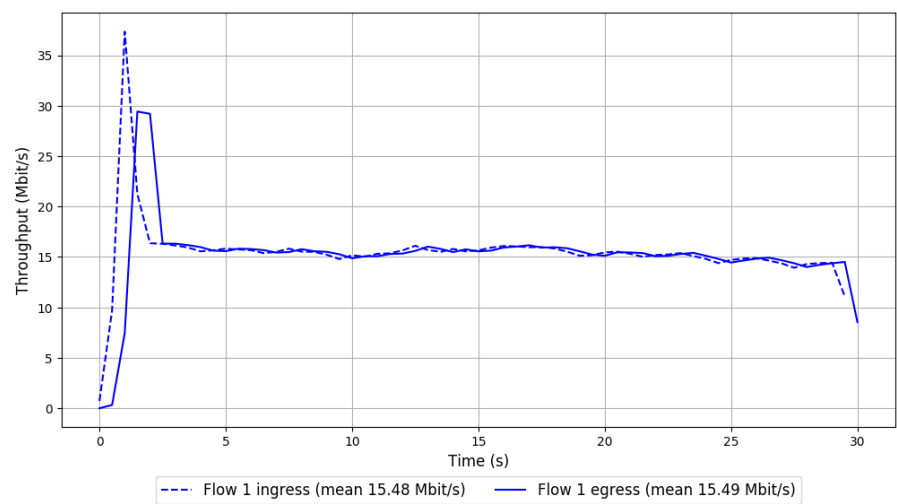


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-07-18 01:10:34
End at: 2018-07-18 01:11:04
Local clock offset: -2.313 ms
Remote clock offset: 9.652 ms

# Below is generated by plot.py at 2018-07-18 04:36:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.49 Mbit/s
95th percentile per-packet one-way delay: 82.066 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 15.49 Mbit/s
95th percentile per-packet one-way delay: 82.066 ms
Loss rate: 0.52%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-07-18 01:30:15

End at: 2018-07-18 01:30:45

Local clock offset: -2.365 ms

Remote clock offset: 6.873 ms

Below is generated by plot.py at 2018-07-18 04:37:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.06 Mbit/s

95th percentile per-packet one-way delay: 83.367 ms

Loss rate: 0.63%

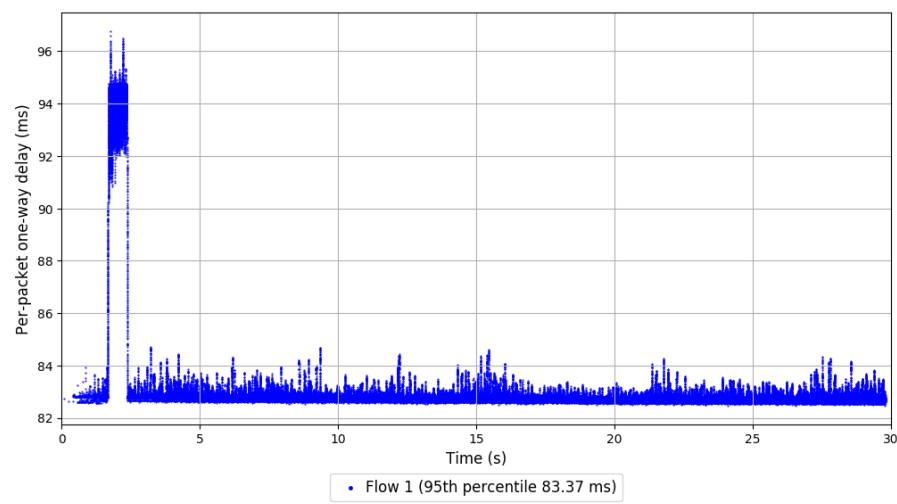
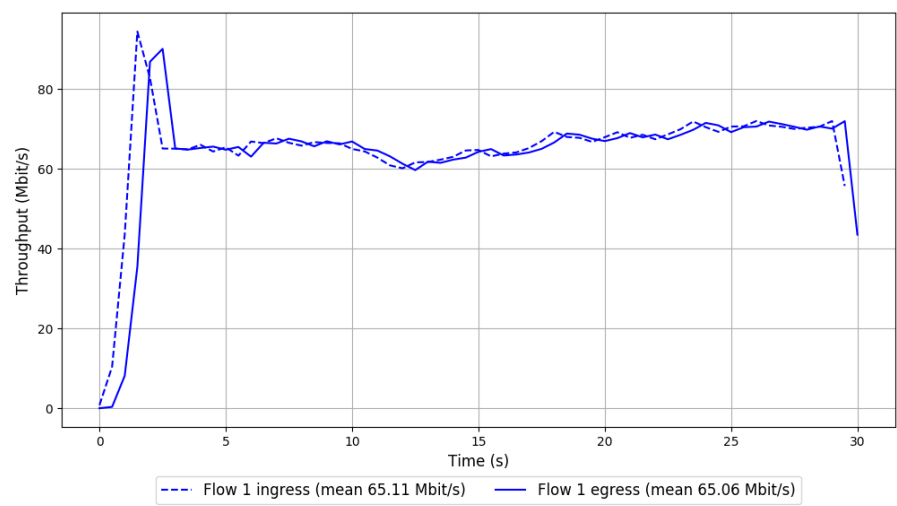
-- Flow 1:

Average throughput: 65.06 Mbit/s

95th percentile per-packet one-way delay: 83.367 ms

Loss rate: 0.63%

Run 2: Report of PCC-Allegro — Data Link

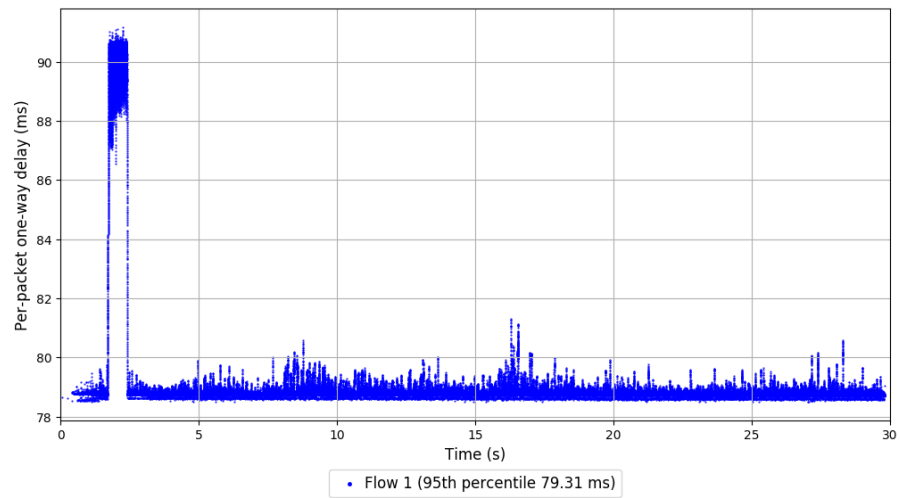
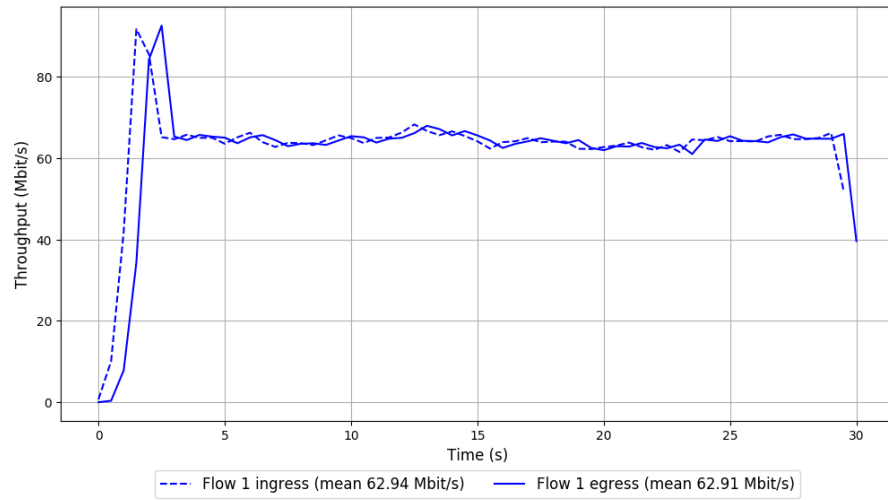


Run 3: Statistics of PCC-Allegro

Start at: 2018-07-18 01:50:01
End at: 2018-07-18 01:50:31
Local clock offset: -2.354 ms
Remote clock offset: 10.587 ms

Below is generated by plot.py at 2018-07-18 04:37:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 62.91 Mbit/s
95th percentile per-packet one-way delay: 79.312 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 62.91 Mbit/s
95th percentile per-packet one-way delay: 79.312 ms
Loss rate: 0.61%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-18 02:09:43

End at: 2018-07-18 02:10:13

Local clock offset: -2.634 ms

Remote clock offset: 11.381 ms

Below is generated by plot.py at 2018-07-18 04:37:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.36 Mbit/s

95th percentile per-packet one-way delay: 91.323 ms

Loss rate: 0.72%

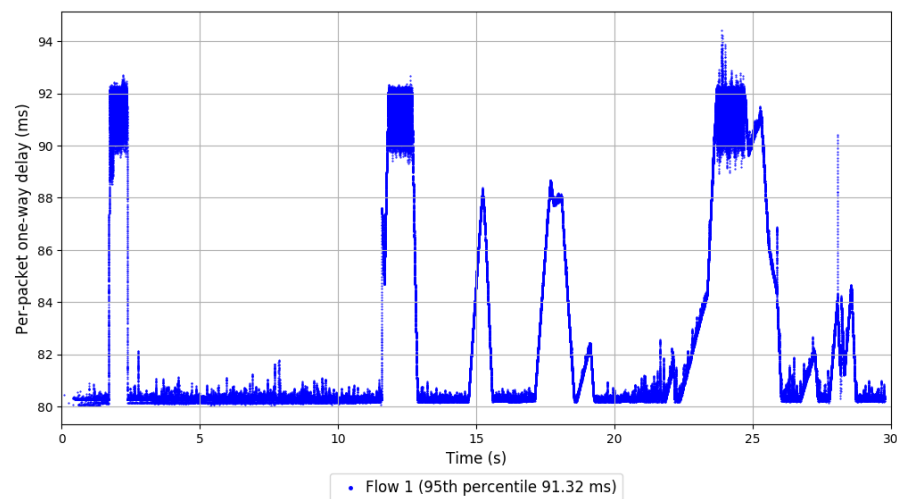
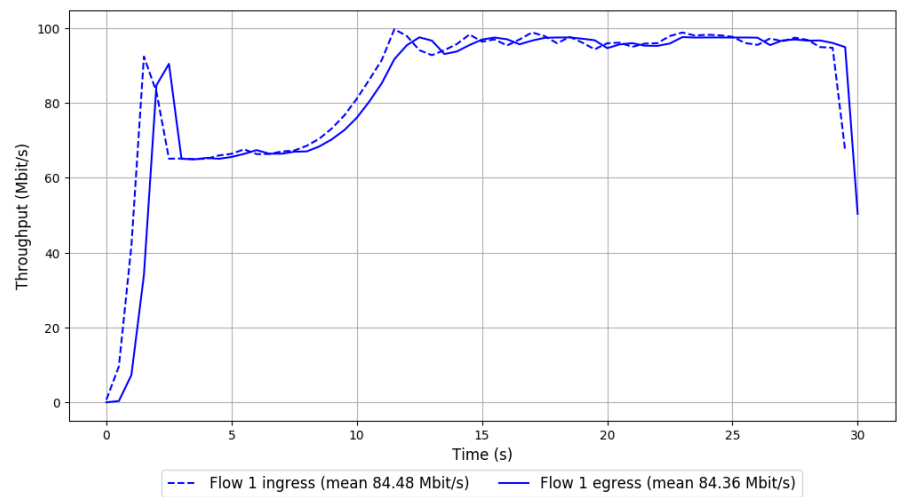
-- Flow 1:

Average throughput: 84.36 Mbit/s

95th percentile per-packet one-way delay: 91.323 ms

Loss rate: 0.72%

Run 4: Report of PCC-Allegro — Data Link

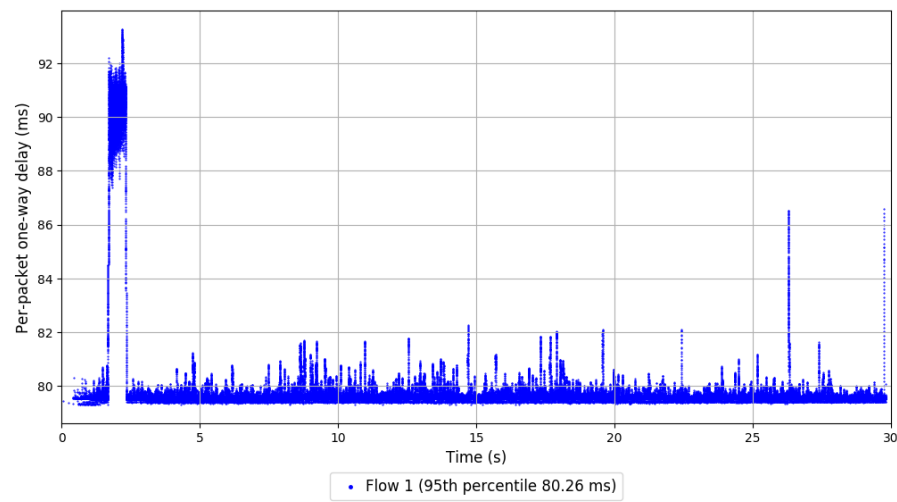
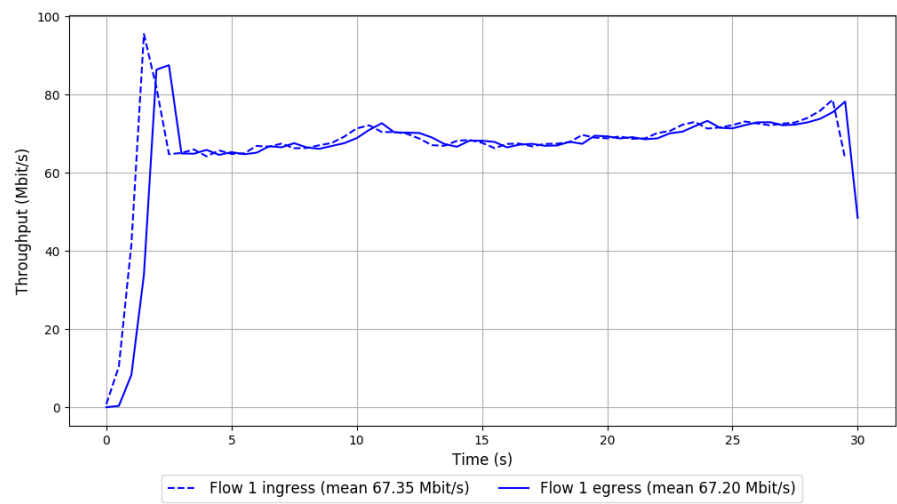


Run 5: Statistics of PCC-Allegro

Start at: 2018-07-18 02:29:29
End at: 2018-07-18 02:29:59
Local clock offset: -2.596 ms
Remote clock offset: 10.817 ms

Below is generated by plot.py at 2018-07-18 04:37:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 67.20 Mbit/s
95th percentile per-packet one-way delay: 80.261 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 67.20 Mbit/s
95th percentile per-packet one-way delay: 80.261 ms
Loss rate: 0.77%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-18 02:49:17

End at: 2018-07-18 02:49:47

Local clock offset: -2.589 ms

Remote clock offset: 2.934 ms

Below is generated by plot.py at 2018-07-18 04:37:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.78 Mbit/s

95th percentile per-packet one-way delay: 84.948 ms

Loss rate: 0.58%

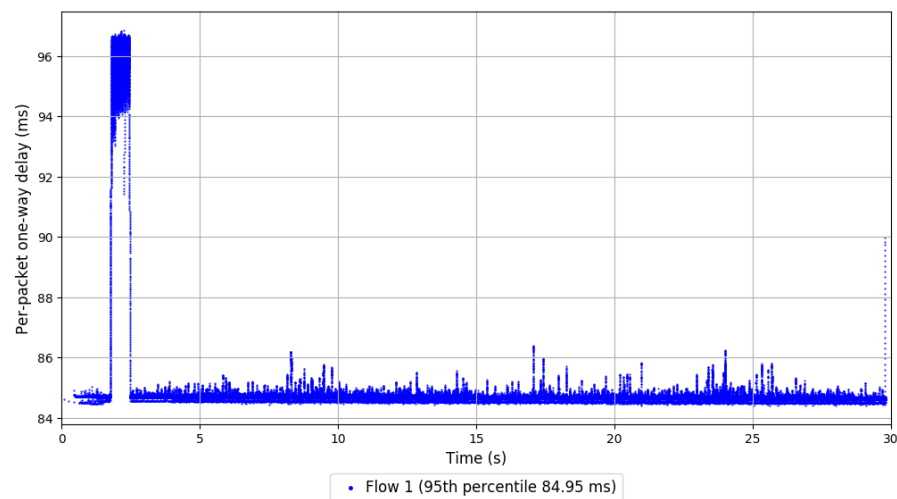
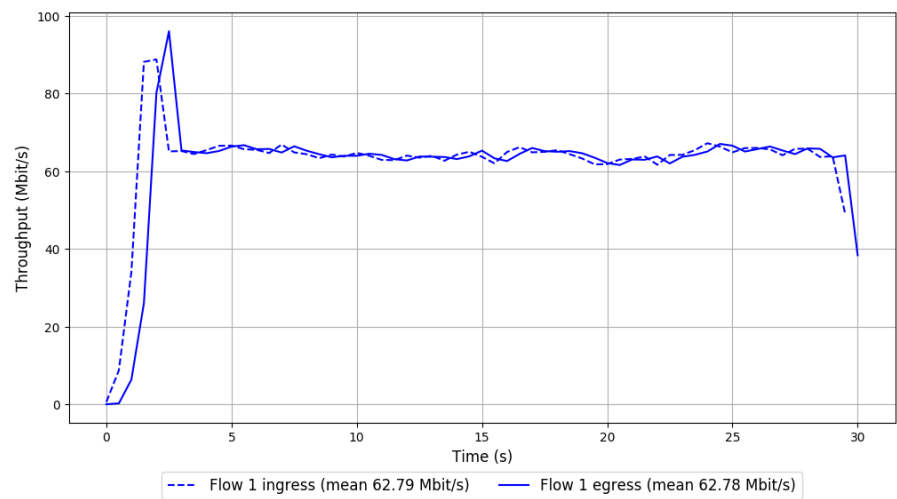
-- Flow 1:

Average throughput: 62.78 Mbit/s

95th percentile per-packet one-way delay: 84.948 ms

Loss rate: 0.58%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-18 03:09:11

End at: 2018-07-18 03:09:41

Local clock offset: -3.01 ms

Remote clock offset: 4.612 ms

Below is generated by plot.py at 2018-07-18 04:37:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.21 Mbit/s

95th percentile per-packet one-way delay: 82.024 ms

Loss rate: 1.30%

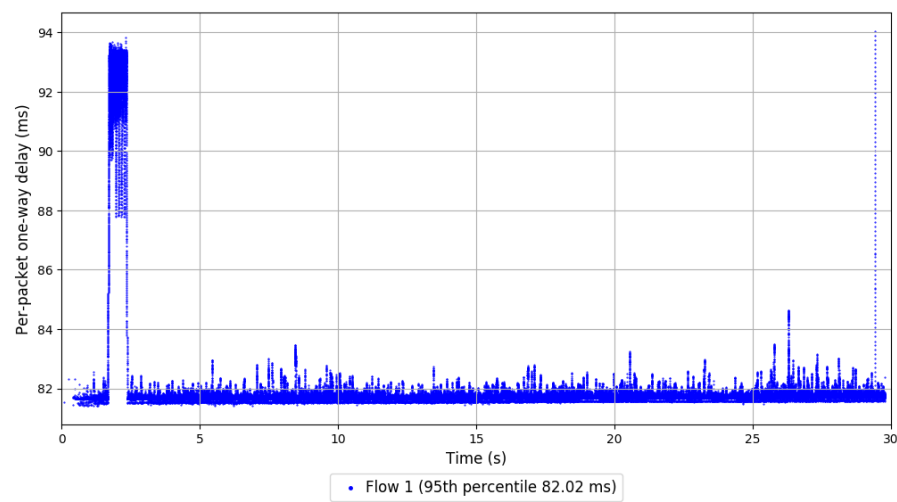
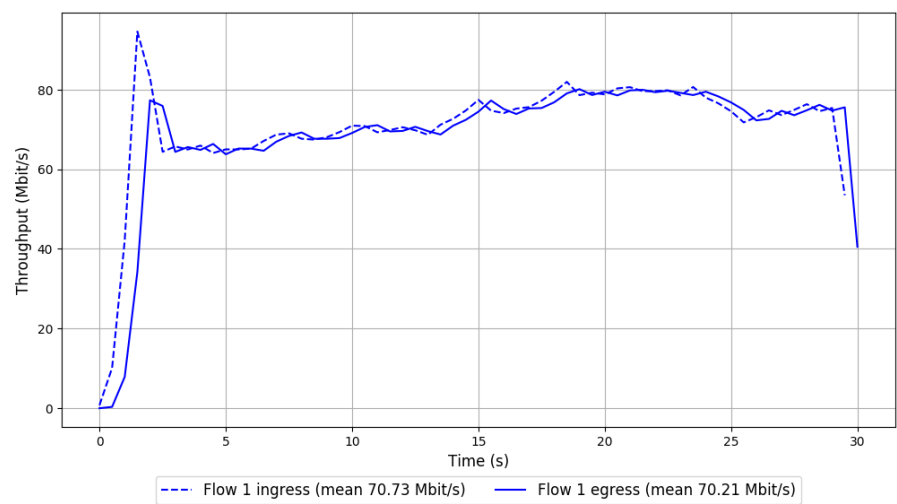
-- Flow 1:

Average throughput: 70.21 Mbit/s

95th percentile per-packet one-way delay: 82.024 ms

Loss rate: 1.30%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-07-18 03:29:03

End at: 2018-07-18 03:29:33

Local clock offset: -2.938 ms

Remote clock offset: 5.715 ms

Below is generated by plot.py at 2018-07-18 04:37:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.63 Mbit/s

95th percentile per-packet one-way delay: 85.424 ms

Loss rate: 0.63%

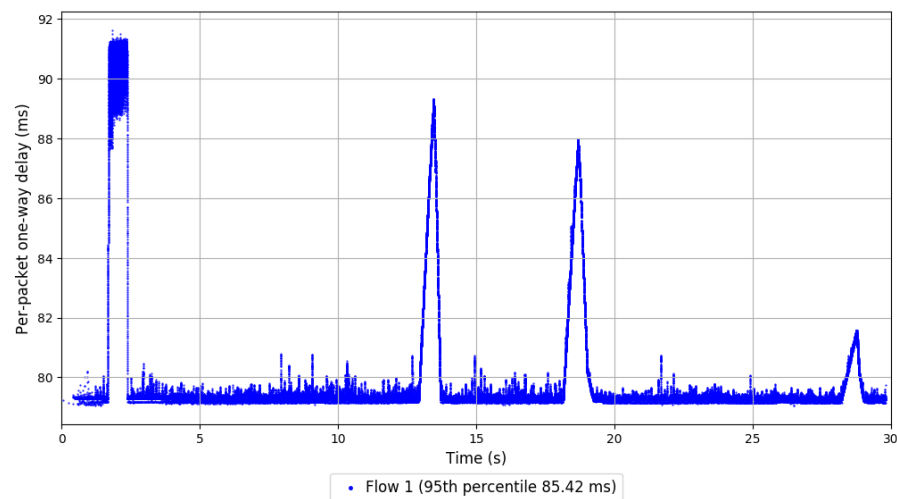
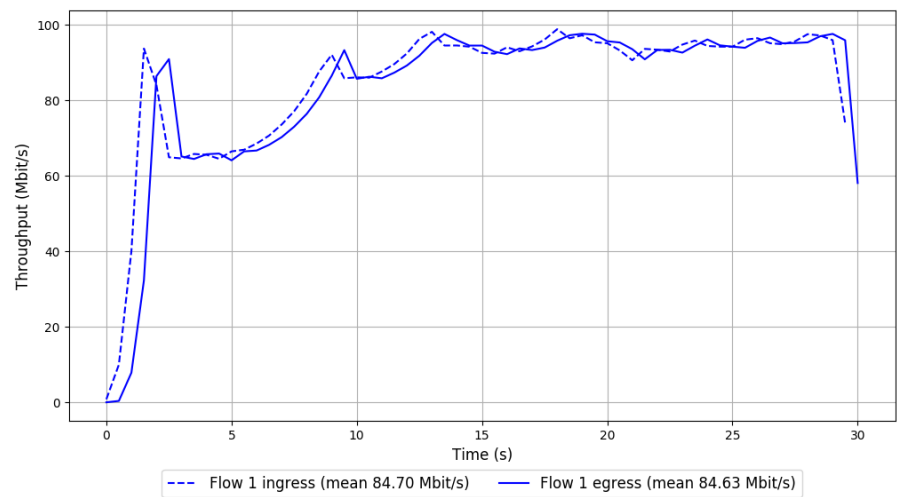
-- Flow 1:

Average throughput: 84.63 Mbit/s

95th percentile per-packet one-way delay: 85.424 ms

Loss rate: 0.63%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-18 03:48:54

End at: 2018-07-18 03:49:24

Local clock offset: -2.523 ms

Remote clock offset: 2.916 ms

Below is generated by plot.py at 2018-07-18 04:37:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.47 Mbit/s

95th percentile per-packet one-way delay: 83.359 ms

Loss rate: 1.66%

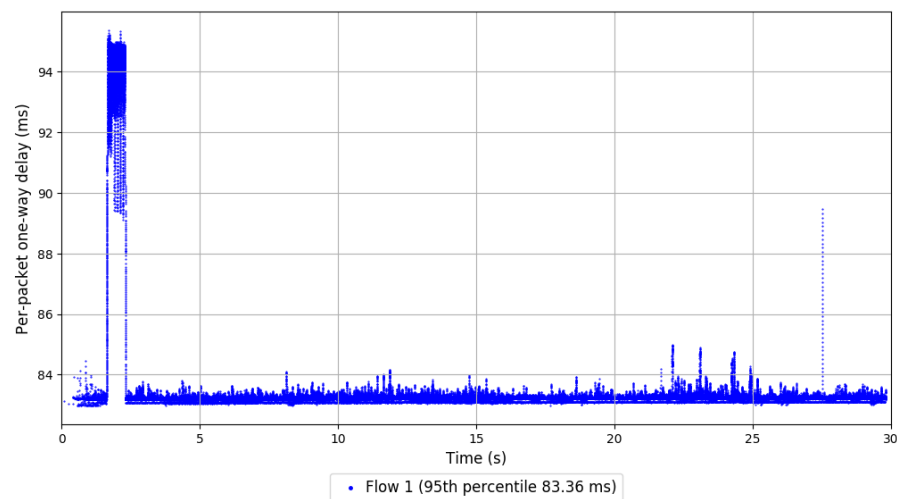
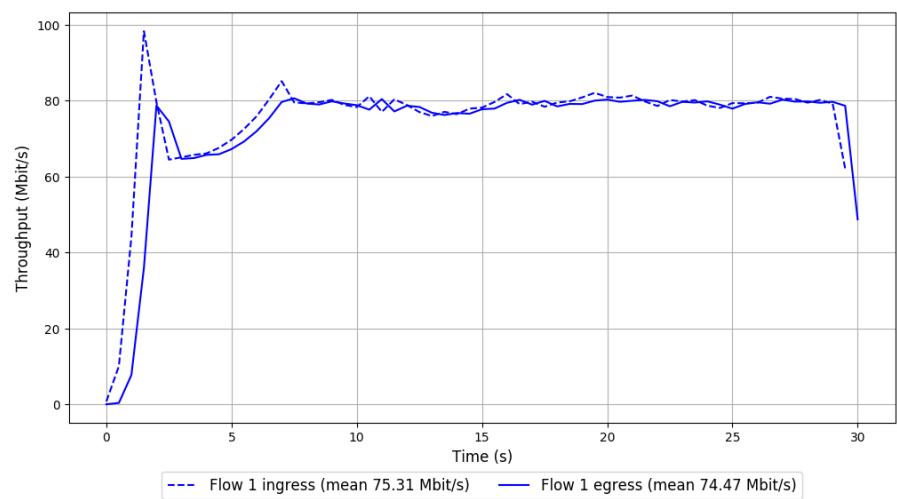
-- Flow 1:

Average throughput: 74.47 Mbit/s

95th percentile per-packet one-way delay: 83.359 ms

Loss rate: 1.66%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-07-18 04:08:45

End at: 2018-07-18 04:09:15

Local clock offset: -2.131 ms

Remote clock offset: 3.613 ms

Below is generated by plot.py at 2018-07-18 04:38:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.20 Mbit/s

95th percentile per-packet one-way delay: 92.703 ms

Loss rate: 0.64%

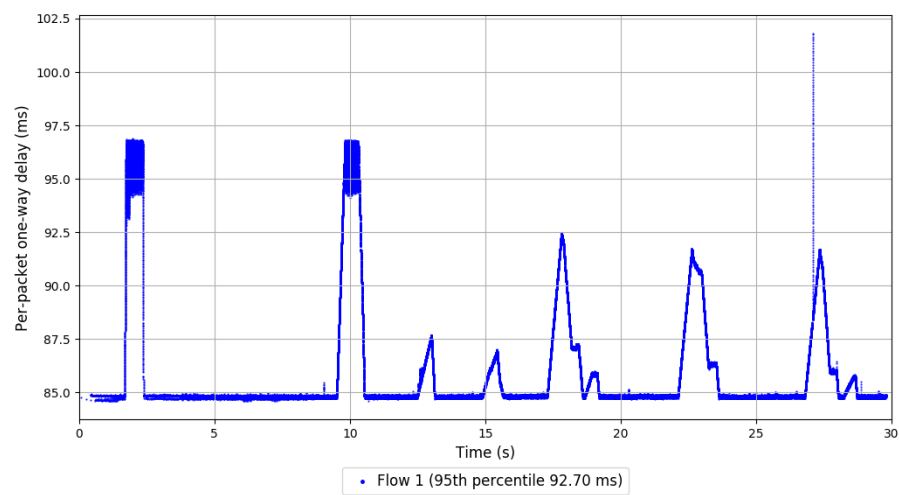
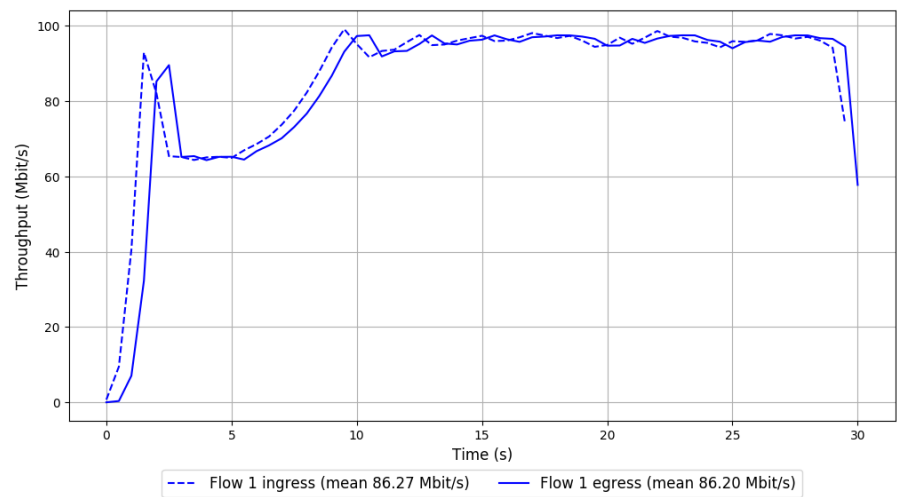
-- Flow 1:

Average throughput: 86.20 Mbit/s

95th percentile per-packet one-way delay: 92.703 ms

Loss rate: 0.64%

Run 10: Report of PCC-Allegro — Data Link

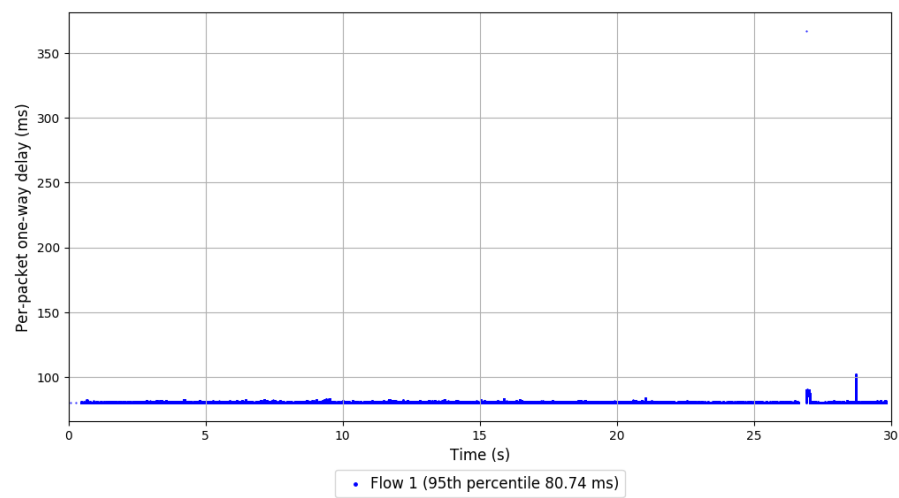
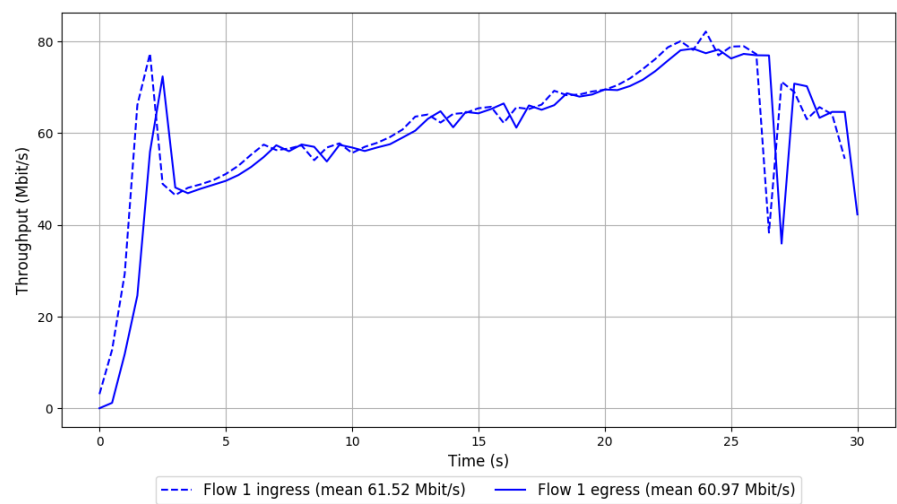


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-18 01:17:30
End at: 2018-07-18 01:18:01
Local clock offset: -2.225 ms
Remote clock offset: 13.82 ms

# Below is generated by plot.py at 2018-07-18 04:38:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.97 Mbit/s
95th percentile per-packet one-way delay: 80.742 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 60.97 Mbit/s
95th percentile per-packet one-way delay: 80.742 ms
Loss rate: 1.45%
```


Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-07-18 01:37:13

End at: 2018-07-18 01:37:43

Local clock offset: -2.397 ms

Remote clock offset: 6.44 ms

Below is generated by plot.py at 2018-07-18 04:38:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.12 Mbit/s

95th percentile per-packet one-way delay: 84.144 ms

Loss rate: 1.36%

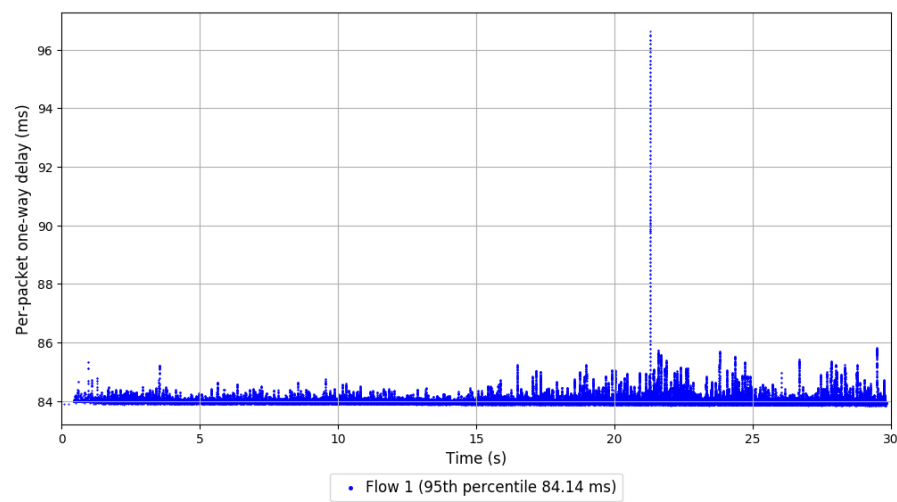
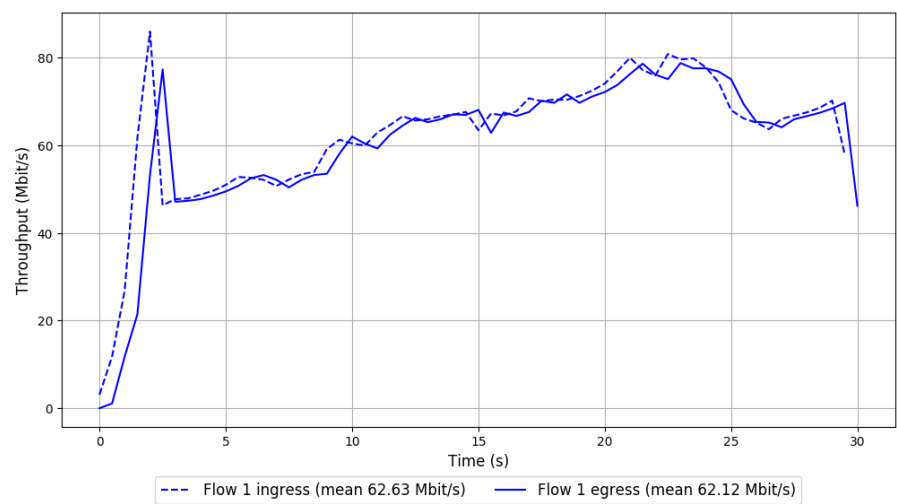
-- Flow 1:

Average throughput: 62.12 Mbit/s

95th percentile per-packet one-way delay: 84.144 ms

Loss rate: 1.36%

Run 2: Report of PCC-Expr — Data Link

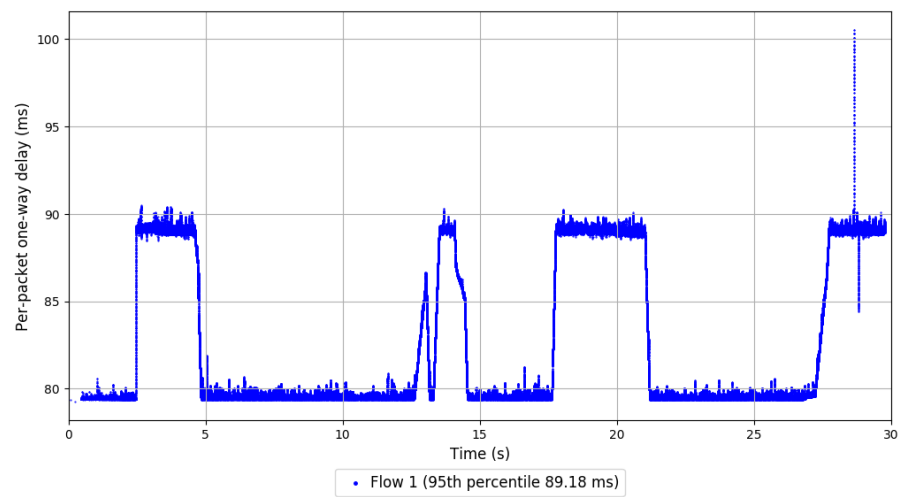
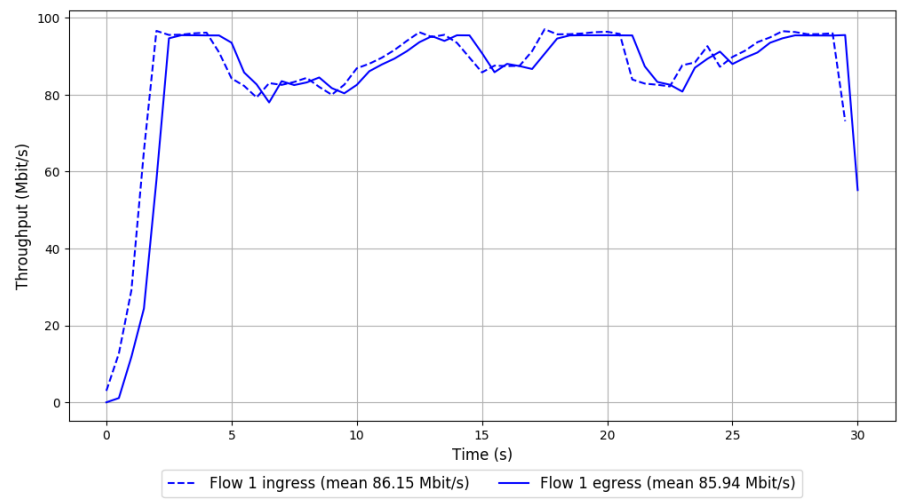


Run 3: Statistics of PCC-Expr

Start at: 2018-07-18 01:56:59
End at: 2018-07-18 01:57:29
Local clock offset: -2.347 ms
Remote clock offset: 10.298 ms

Below is generated by plot.py at 2018-07-18 04:39:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 85.94 Mbit/s
95th percentile per-packet one-way delay: 89.178 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 85.94 Mbit/s
95th percentile per-packet one-way delay: 89.178 ms
Loss rate: 0.82%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-07-18 02:16:42

End at: 2018-07-18 02:17:12

Local clock offset: -2.652 ms

Remote clock offset: 8.062 ms

Below is generated by plot.py at 2018-07-18 04:39:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.47 Mbit/s

95th percentile per-packet one-way delay: 91.422 ms

Loss rate: 0.69%

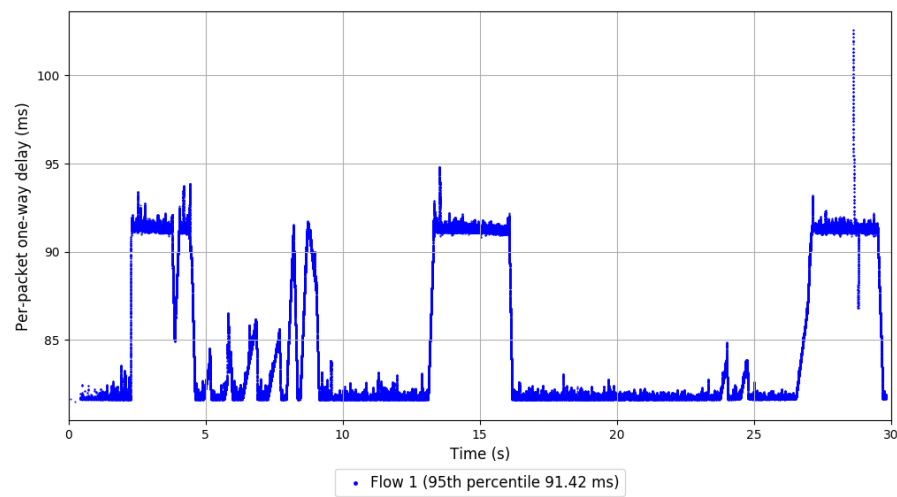
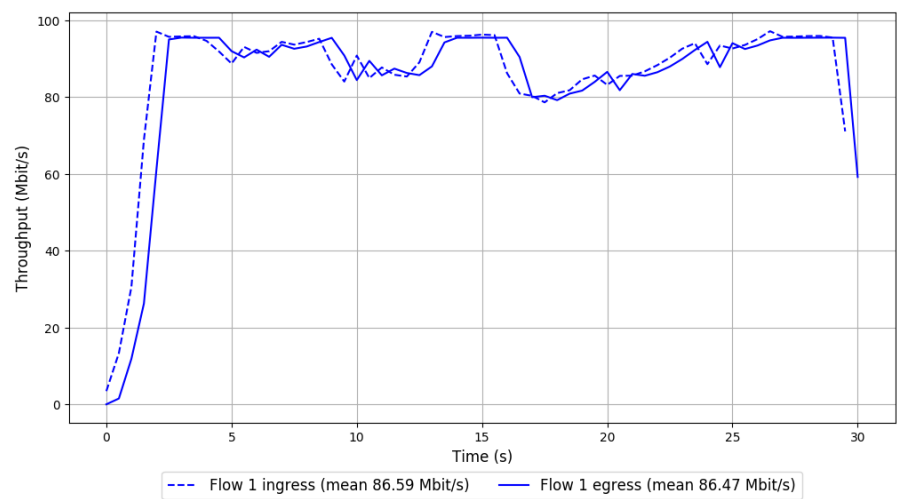
-- Flow 1:

Average throughput: 86.47 Mbit/s

95th percentile per-packet one-way delay: 91.422 ms

Loss rate: 0.69%

Run 4: Report of PCC-Expr — Data Link

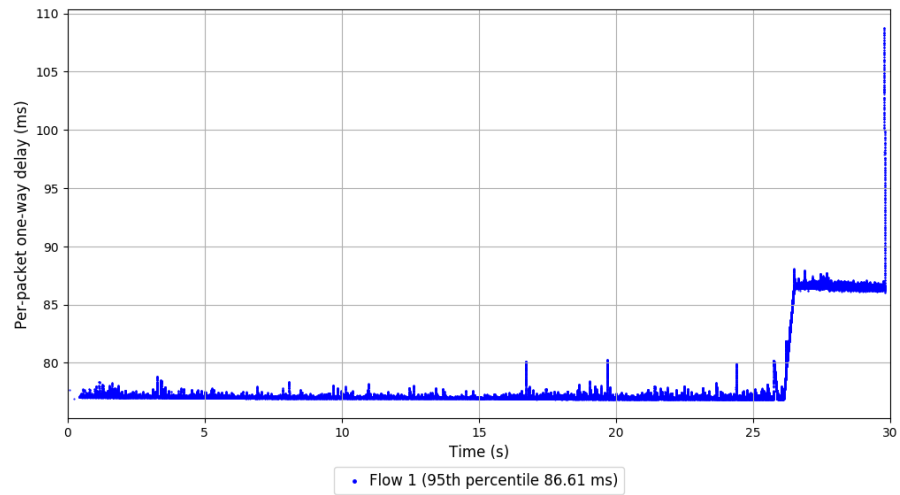
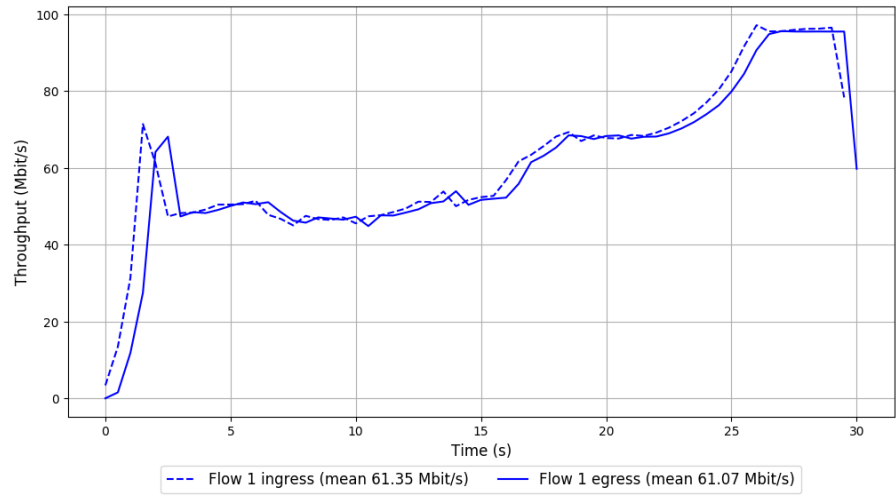


Run 5: Statistics of PCC-Expr

Start at: 2018-07-18 02:36:29
End at: 2018-07-18 02:36:59
Local clock offset: -2.654 ms
Remote clock offset: 10.979 ms

Below is generated by plot.py at 2018-07-18 04:39:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 61.07 Mbit/s
95th percentile per-packet one-way delay: 86.611 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 61.07 Mbit/s
95th percentile per-packet one-way delay: 86.611 ms
Loss rate: 1.04%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-07-18 02:56:18

End at: 2018-07-18 02:56:48

Local clock offset: -2.704 ms

Remote clock offset: 7.129 ms

Below is generated by plot.py at 2018-07-18 04:39:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.70 Mbit/s

95th percentile per-packet one-way delay: 89.314 ms

Loss rate: 0.69%

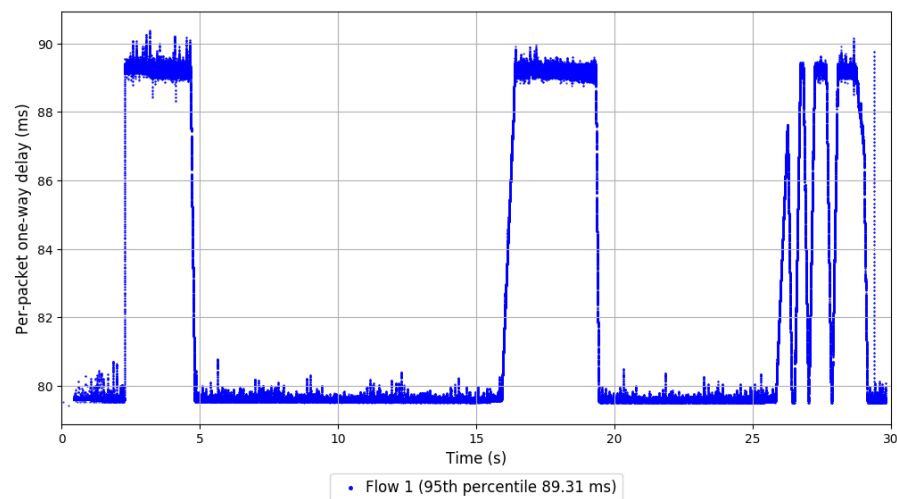
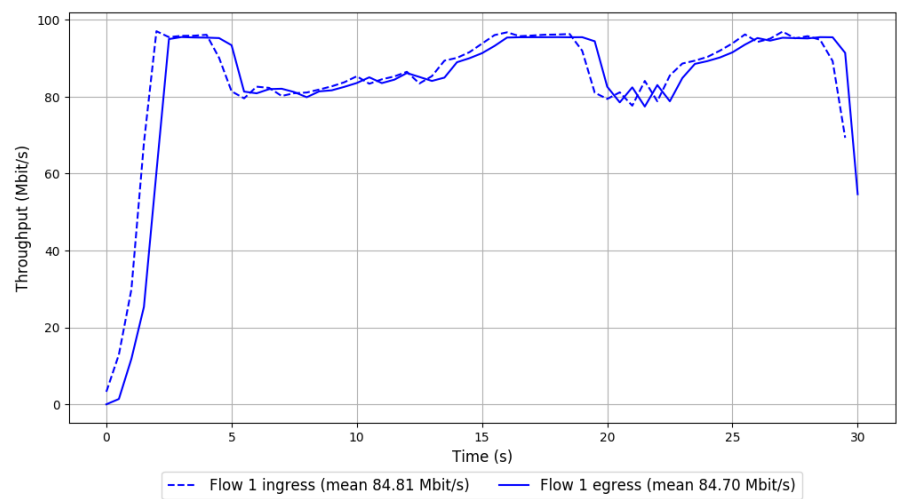
-- Flow 1:

Average throughput: 84.70 Mbit/s

95th percentile per-packet one-way delay: 89.314 ms

Loss rate: 0.69%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-07-18 03:16:13

End at: 2018-07-18 03:16:43

Local clock offset: -3.082 ms

Remote clock offset: 5.148 ms

Below is generated by plot.py at 2018-07-18 04:39:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.76 Mbit/s

95th percentile per-packet one-way delay: 83.445 ms

Loss rate: 3.06%

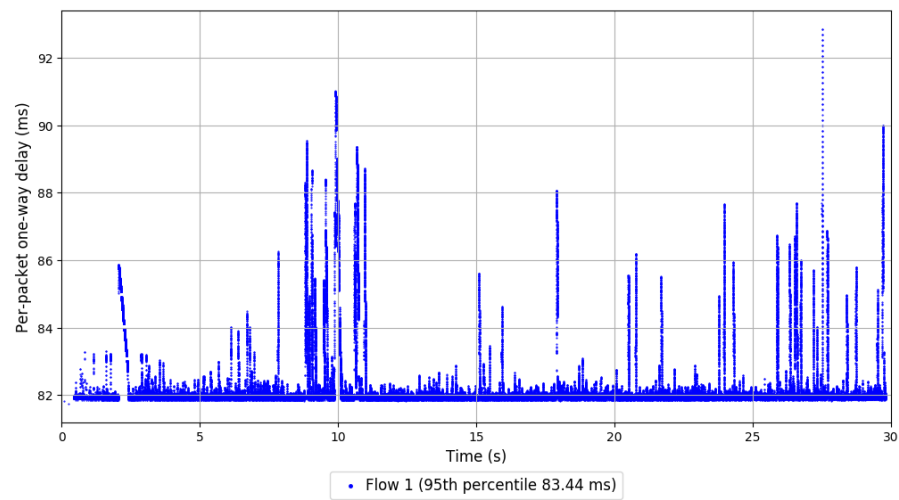
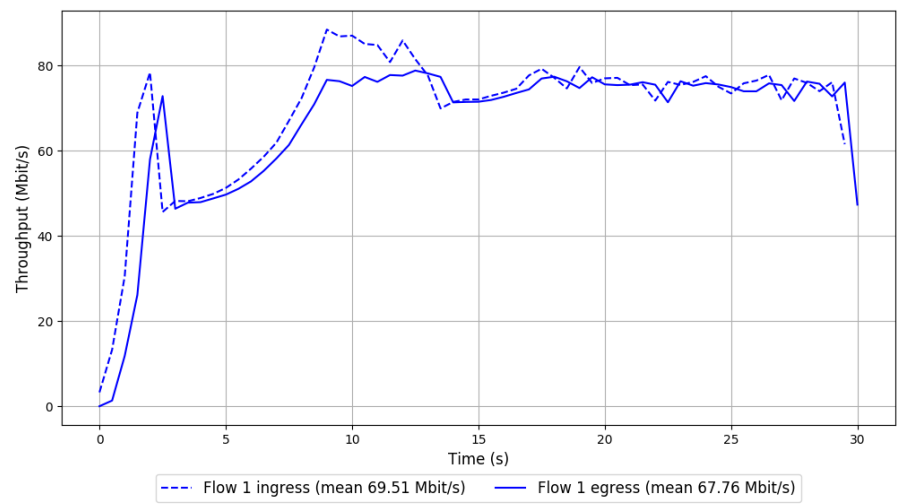
-- Flow 1:

Average throughput: 67.76 Mbit/s

95th percentile per-packet one-way delay: 83.445 ms

Loss rate: 3.06%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-07-18 03:36:06

End at: 2018-07-18 03:36:36

Local clock offset: -2.697 ms

Remote clock offset: 2.672 ms

Below is generated by plot.py at 2018-07-18 04:40:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.82 Mbit/s

95th percentile per-packet one-way delay: 91.982 ms

Loss rate: 0.86%

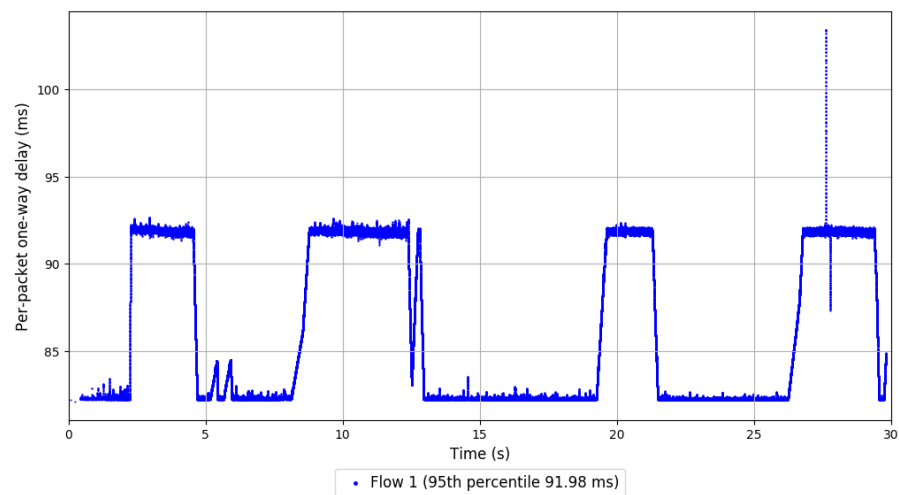
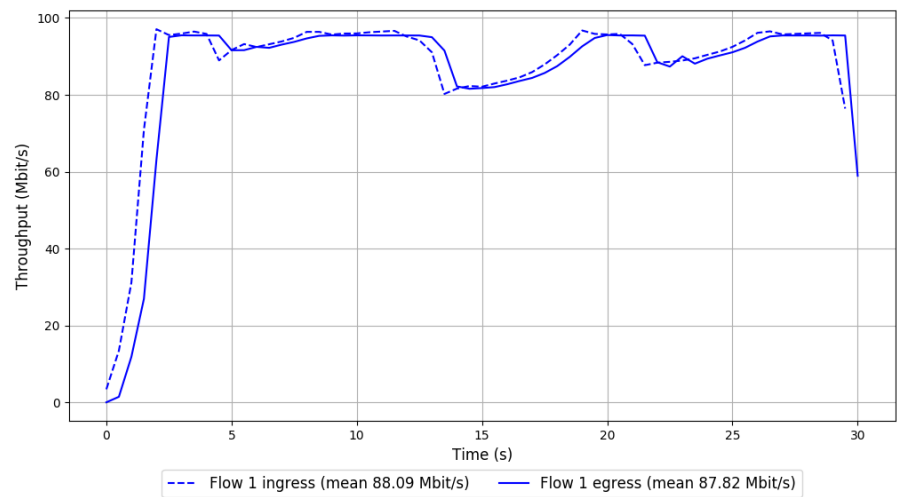
-- Flow 1:

Average throughput: 87.82 Mbit/s

95th percentile per-packet one-way delay: 91.982 ms

Loss rate: 0.86%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-07-18 03:55:55

End at: 2018-07-18 03:56:25

Local clock offset: -2.459 ms

Remote clock offset: 8.287 ms

Below is generated by plot.py at 2018-07-18 04:40:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.38 Mbit/s

95th percentile per-packet one-way delay: 87.622 ms

Loss rate: 0.80%

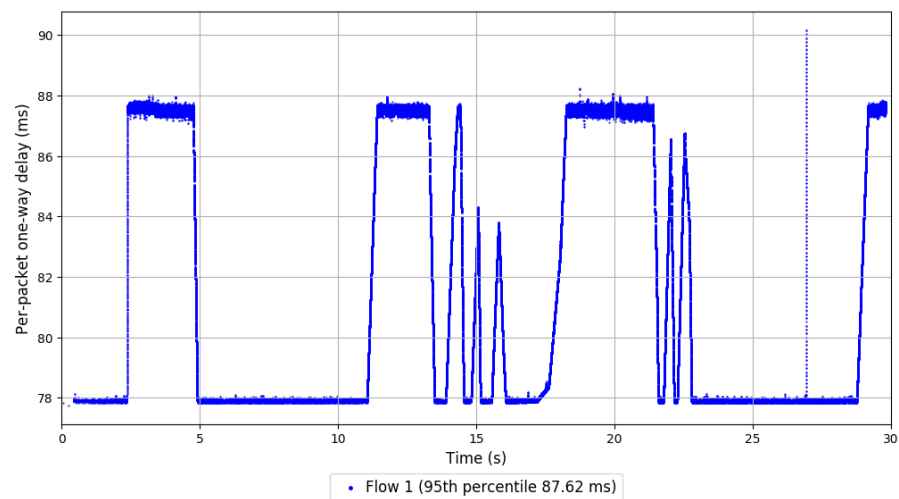
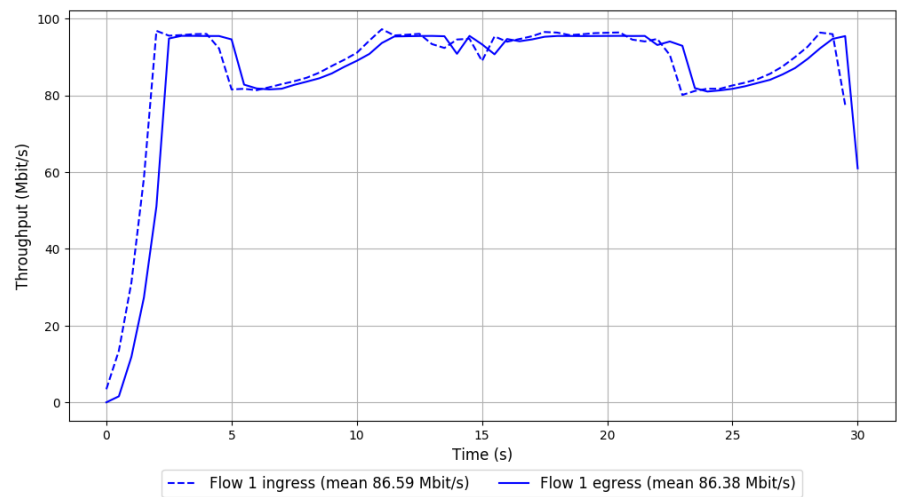
-- Flow 1:

Average throughput: 86.38 Mbit/s

95th percentile per-packet one-way delay: 87.622 ms

Loss rate: 0.80%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-18 04:15:45

End at: 2018-07-18 04:16:15

Local clock offset: -2.089 ms

Remote clock offset: 9.484 ms

Below is generated by plot.py at 2018-07-18 04:40:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.34 Mbit/s

95th percentile per-packet one-way delay: 78.705 ms

Loss rate: 2.69%

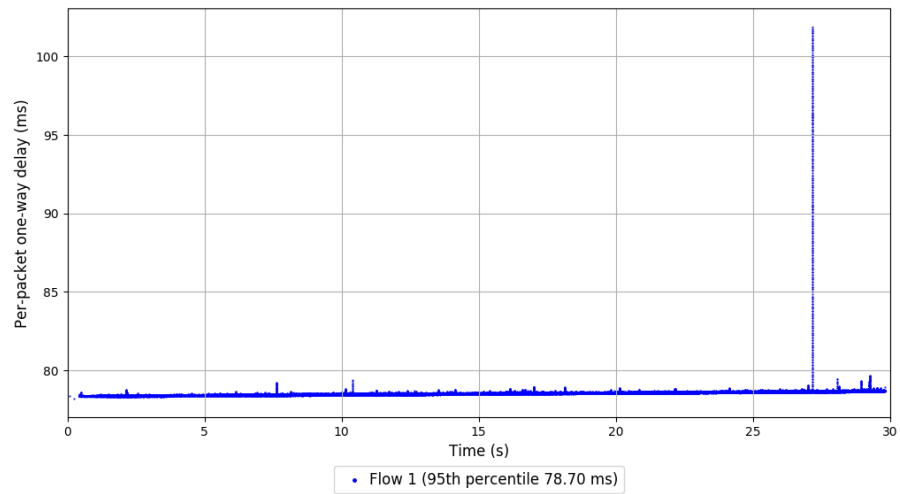
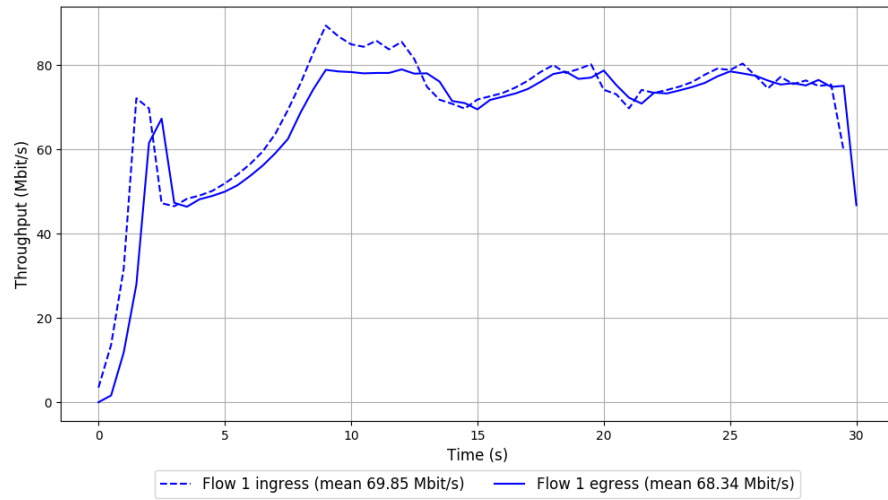
-- Flow 1:

Average throughput: 68.34 Mbit/s

95th percentile per-packet one-way delay: 78.705 ms

Loss rate: 2.69%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-07-18 01:11:42

End at: 2018-07-18 01:12:12

Local clock offset: -2.285 ms

Remote clock offset: 14.336 ms

Below is generated by plot.py at 2018-07-18 04:40:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.01 Mbit/s

95th percentile per-packet one-way delay: 85.457 ms

Loss rate: 0.87%

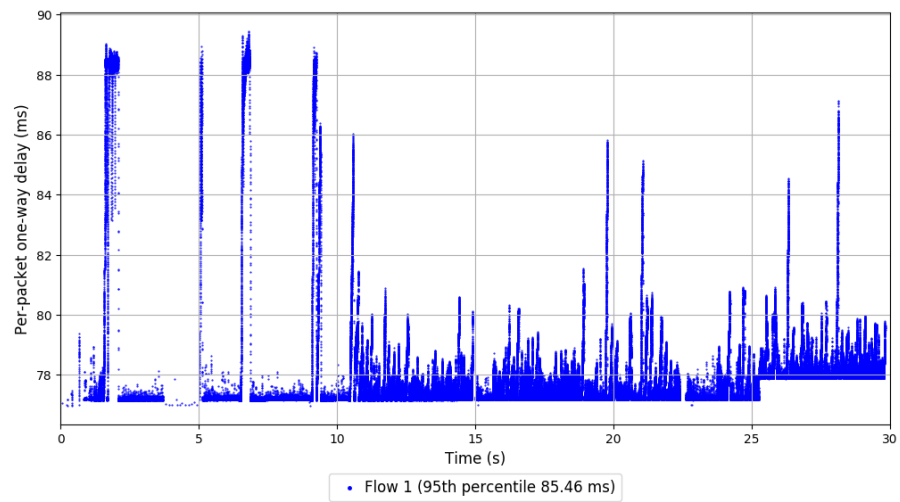
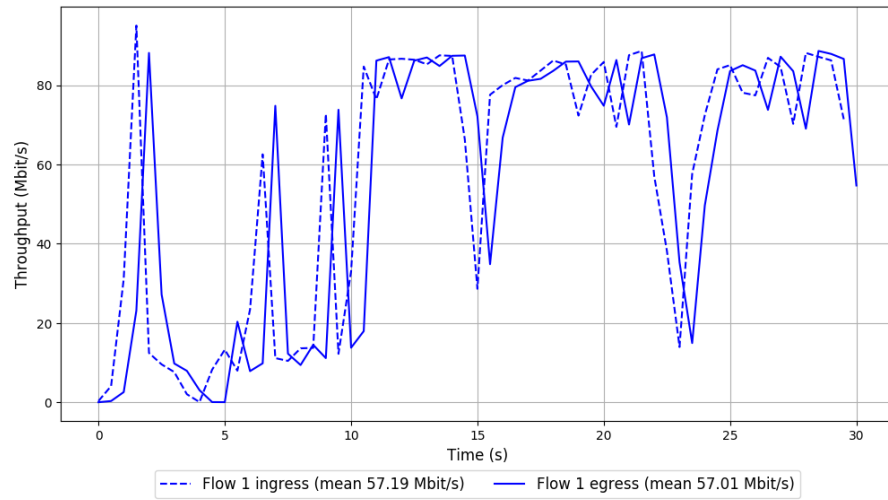
-- Flow 1:

Average throughput: 57.01 Mbit/s

95th percentile per-packet one-way delay: 85.457 ms

Loss rate: 0.87%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-07-18 01:31:24

End at: 2018-07-18 01:31:54

Local clock offset: -2.312 ms

Remote clock offset: 12.55 ms

Below is generated by plot.py at 2018-07-18 04:40:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.04 Mbit/s

95th percentile per-packet one-way delay: 84.900 ms

Loss rate: 0.84%

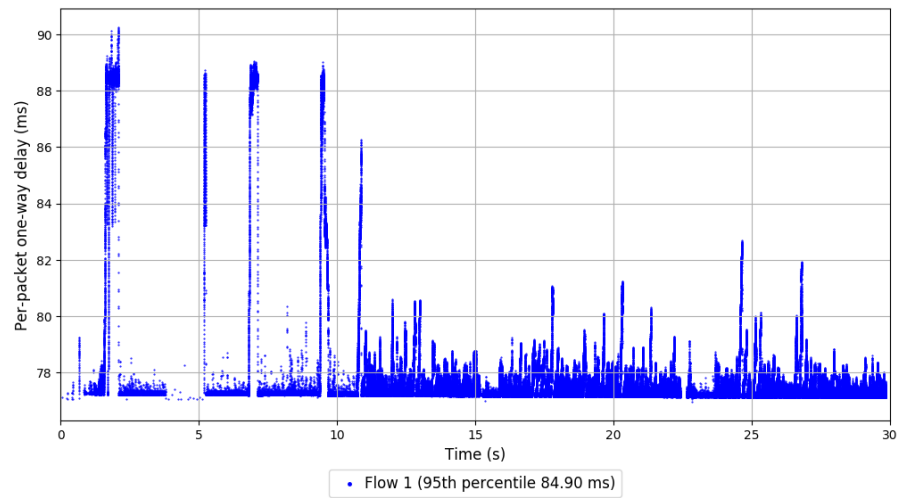
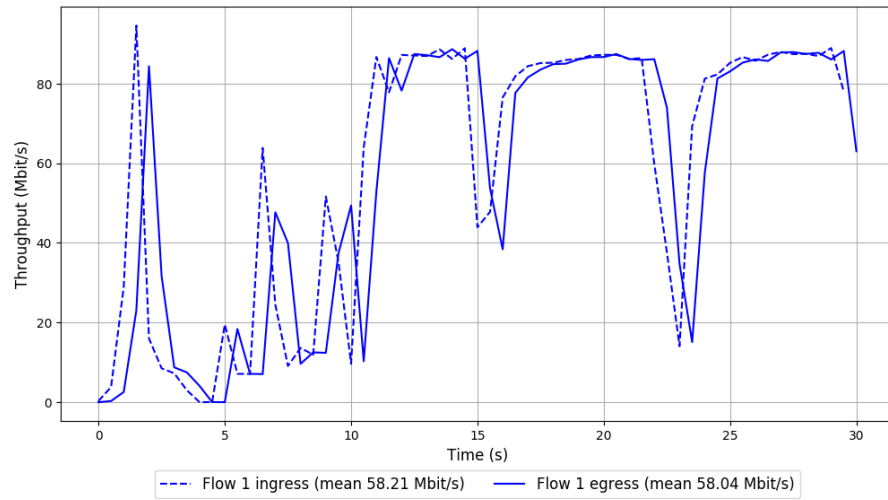
-- Flow 1:

Average throughput: 58.04 Mbit/s

95th percentile per-packet one-way delay: 84.900 ms

Loss rate: 0.84%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-07-18 01:51:10

End at: 2018-07-18 01:51:40

Local clock offset: -2.347 ms

Remote clock offset: 9.492 ms

Below is generated by plot.py at 2018-07-18 04:40:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.14 Mbit/s

95th percentile per-packet one-way delay: 86.529 ms

Loss rate: 0.81%

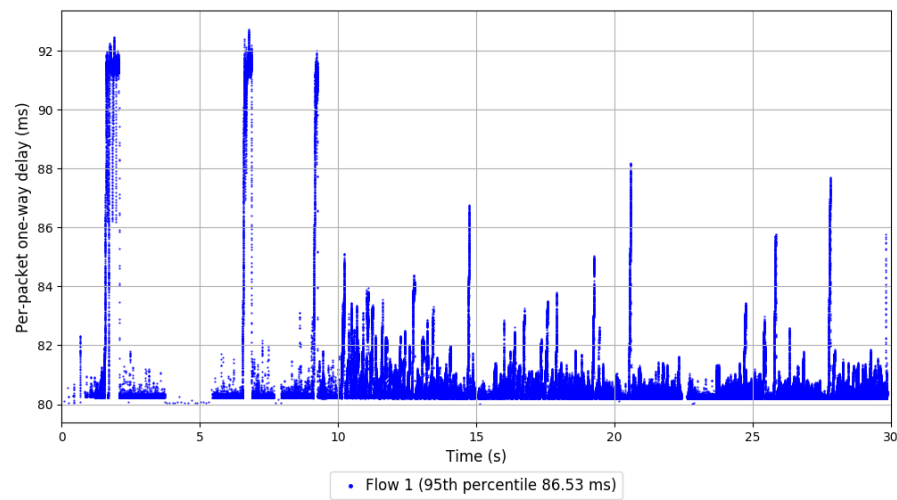
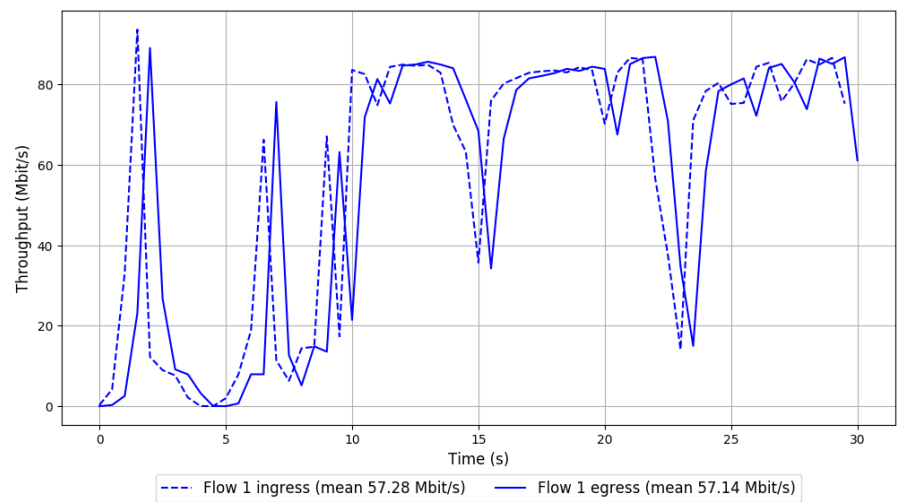
-- Flow 1:

Average throughput: 57.14 Mbit/s

95th percentile per-packet one-way delay: 86.529 ms

Loss rate: 0.81%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-07-18 02:10:53

End at: 2018-07-18 02:11:23

Local clock offset: -2.566 ms

Remote clock offset: 6.606 ms

Below is generated by plot.py at 2018-07-18 04:40:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.60 Mbit/s

95th percentile per-packet one-way delay: 91.134 ms

Loss rate: 0.87%

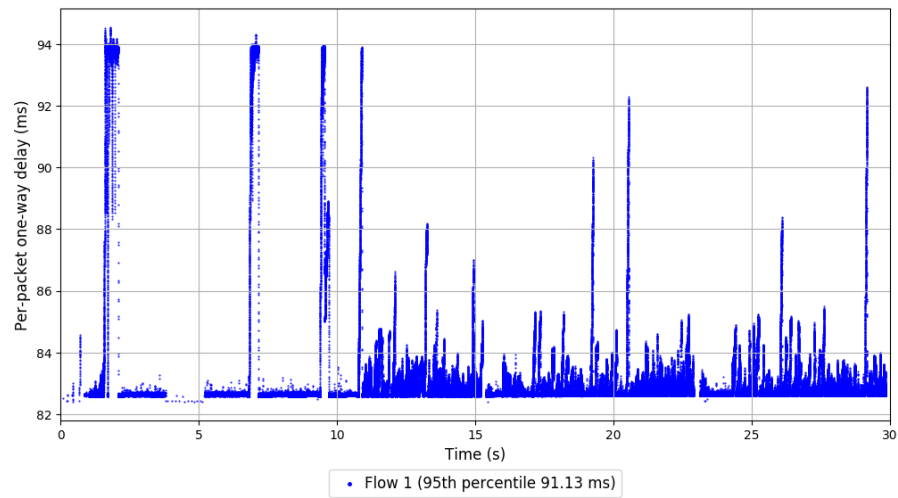
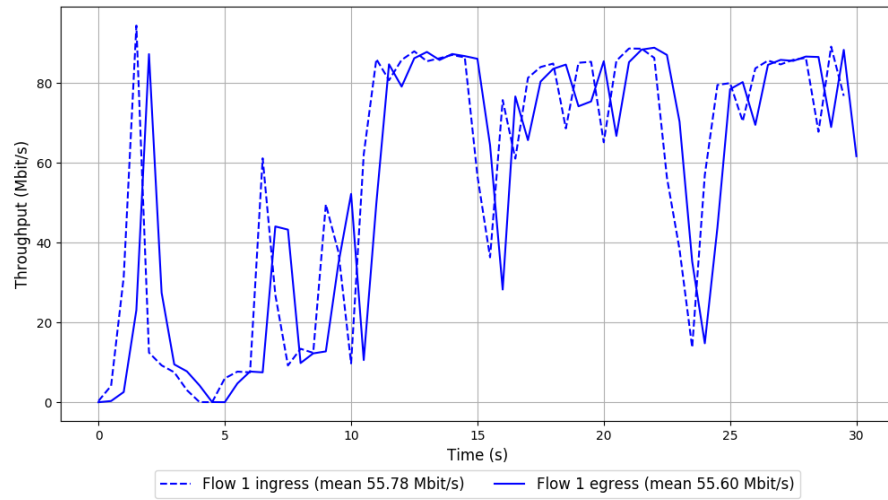
-- Flow 1:

Average throughput: 55.60 Mbit/s

95th percentile per-packet one-way delay: 91.134 ms

Loss rate: 0.87%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-07-18 02:30:39

End at: 2018-07-18 02:31:09

Local clock offset: -2.63 ms

Remote clock offset: 8.017 ms

Below is generated by plot.py at 2018-07-18 04:40:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.92 Mbit/s

95th percentile per-packet one-way delay: 95.264 ms

Loss rate: 0.54%

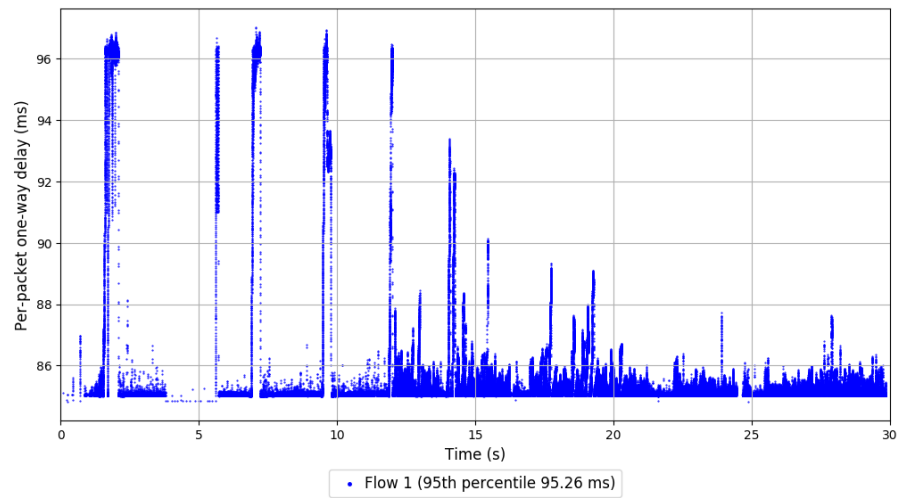
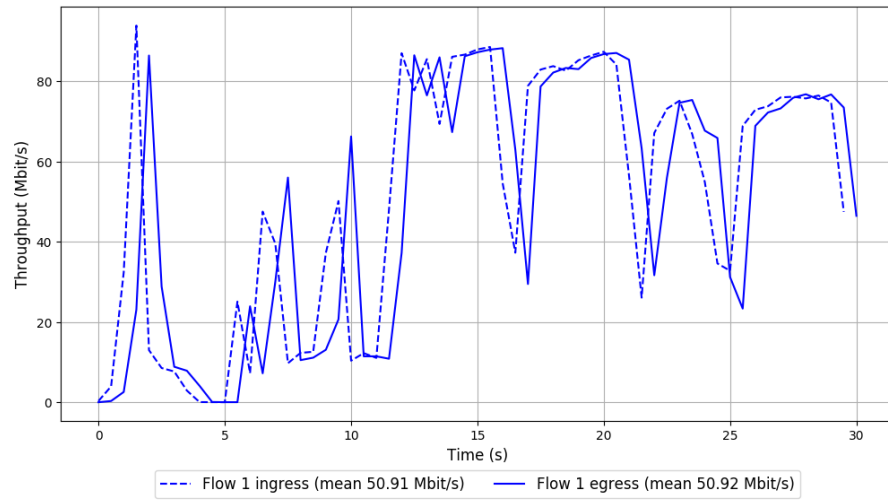
-- Flow 1:

Average throughput: 50.92 Mbit/s

95th percentile per-packet one-way delay: 95.264 ms

Loss rate: 0.54%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-18 02:50:27

End at: 2018-07-18 02:50:57

Local clock offset: -2.599 ms

Remote clock offset: 2.66 ms

Below is generated by plot.py at 2018-07-18 04:40:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.33 Mbit/s

95th percentile per-packet one-way delay: 92.443 ms

Loss rate: 0.87%

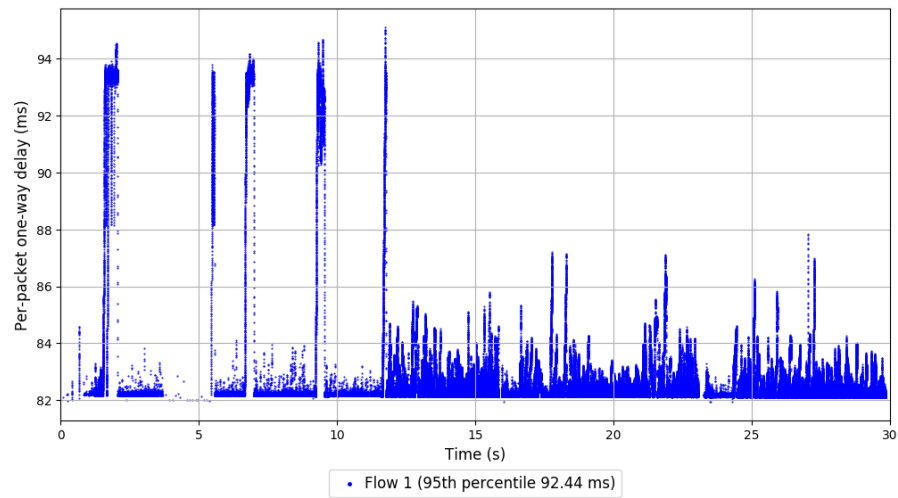
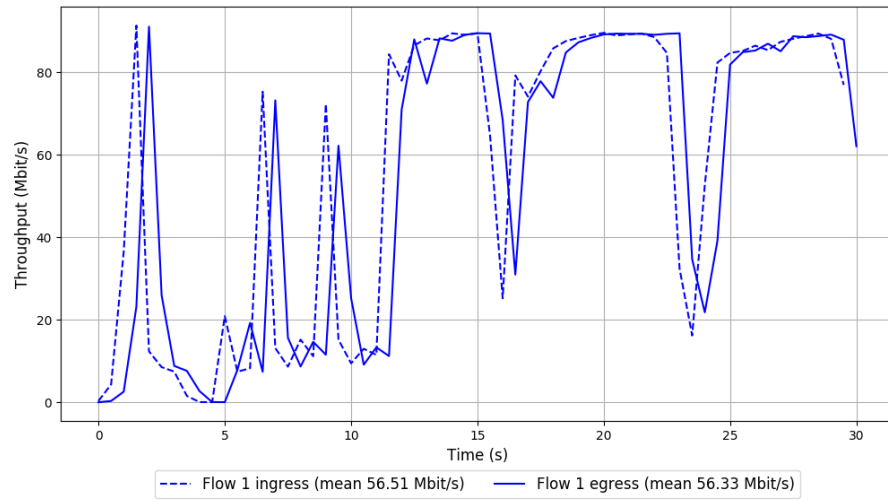
-- Flow 1:

Average throughput: 56.33 Mbit/s

95th percentile per-packet one-way delay: 92.443 ms

Loss rate: 0.87%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-18 03:10:20

End at: 2018-07-18 03:10:50

Local clock offset: -3.019 ms

Remote clock offset: 4.732 ms

Below is generated by plot.py at 2018-07-18 04:40:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.32 Mbit/s

95th percentile per-packet one-way delay: 83.752 ms

Loss rate: 1.55%

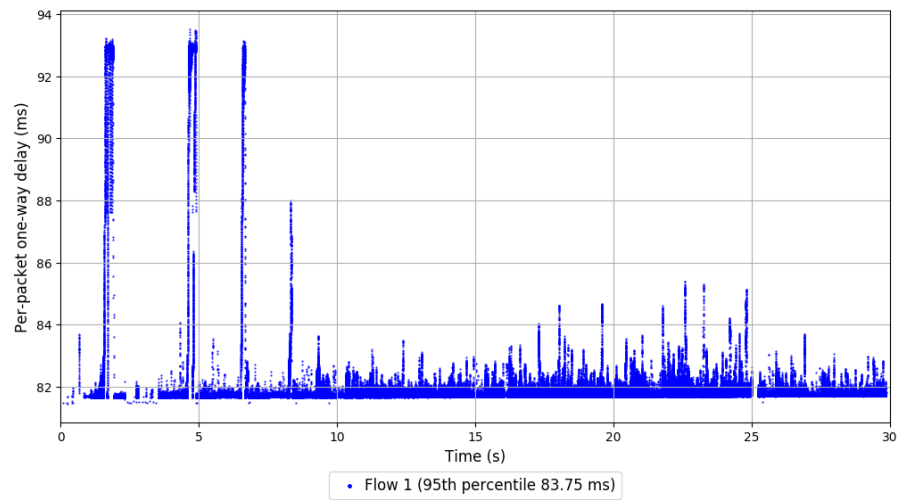
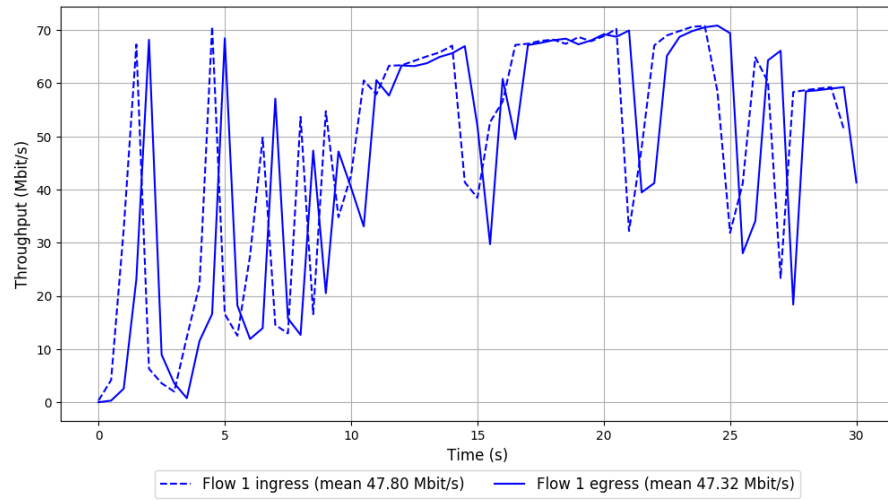
-- Flow 1:

Average throughput: 47.32 Mbit/s

95th percentile per-packet one-way delay: 83.752 ms

Loss rate: 1.55%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-18 03:30:13

End at: 2018-07-18 03:30:43

Local clock offset: -2.948 ms

Remote clock offset: 6.717 ms

Below is generated by plot.py at 2018-07-18 04:40:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.36 Mbit/s

95th percentile per-packet one-way delay: 88.035 ms

Loss rate: 0.84%

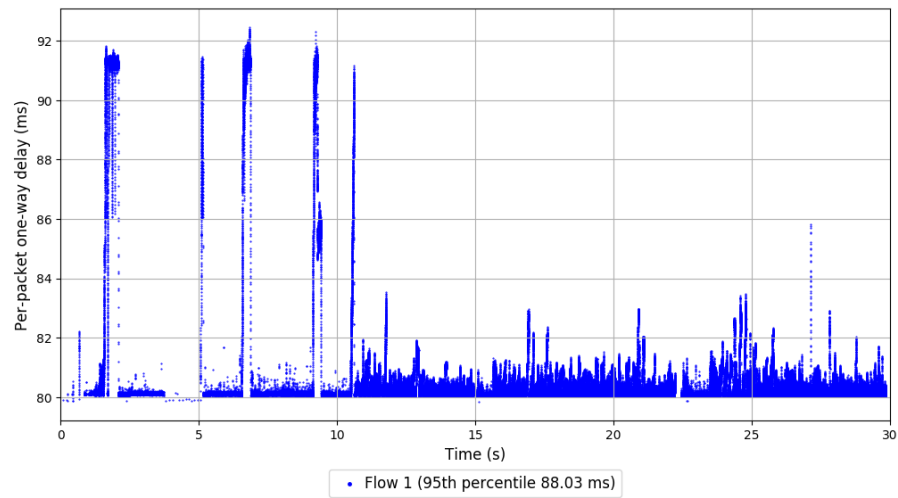
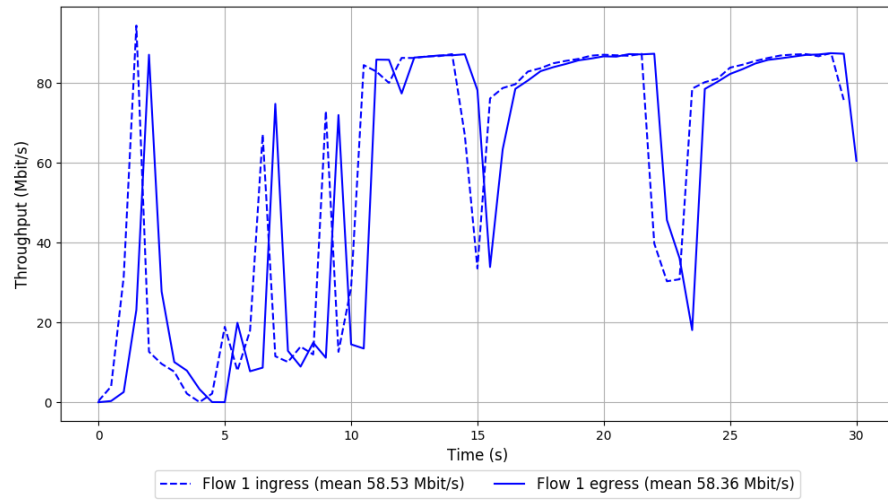
-- Flow 1:

Average throughput: 58.36 Mbit/s

95th percentile per-packet one-way delay: 88.035 ms

Loss rate: 0.84%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-18 03:50:04

End at: 2018-07-18 03:50:34

Local clock offset: -2.511 ms

Remote clock offset: 8.095 ms

Below is generated by plot.py at 2018-07-18 04:40:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.24 Mbit/s

95th percentile per-packet one-way delay: 81.614 ms

Loss rate: 1.65%

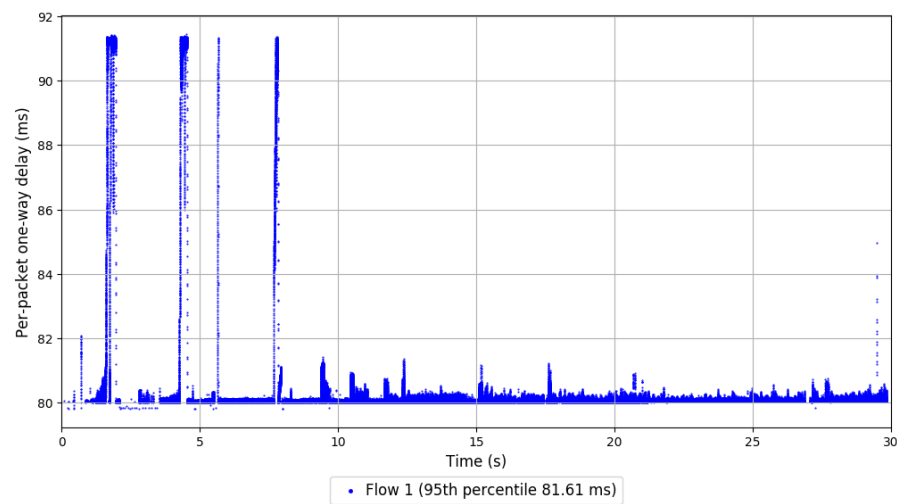
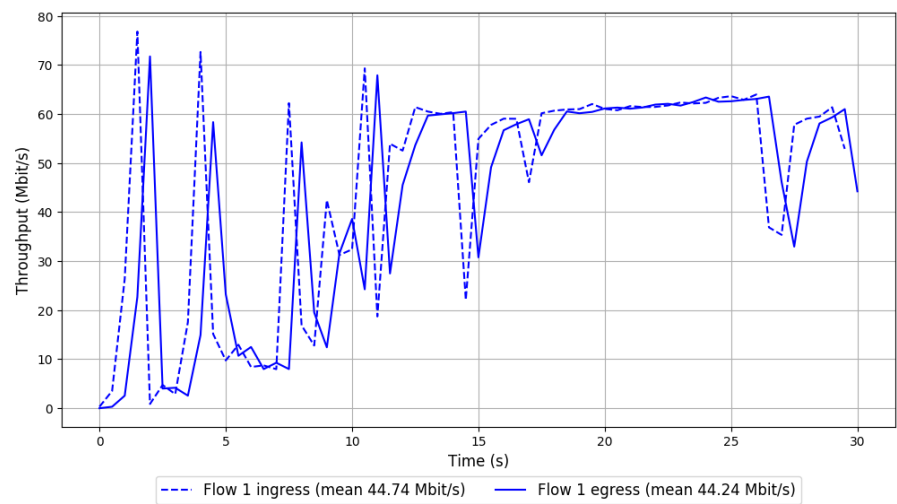
-- Flow 1:

Average throughput: 44.24 Mbit/s

95th percentile per-packet one-way delay: 81.614 ms

Loss rate: 1.65%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-18 04:09:54

End at: 2018-07-18 04:10:24

Local clock offset: -2.11 ms

Remote clock offset: 8.725 ms

Below is generated by plot.py at 2018-07-18 04:40:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.07 Mbit/s

95th percentile per-packet one-way delay: 86.054 ms

Loss rate: 0.80%

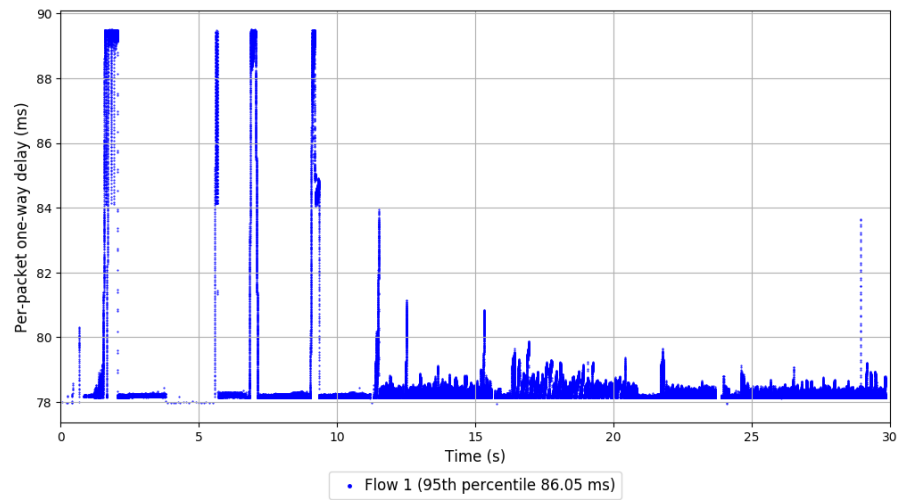
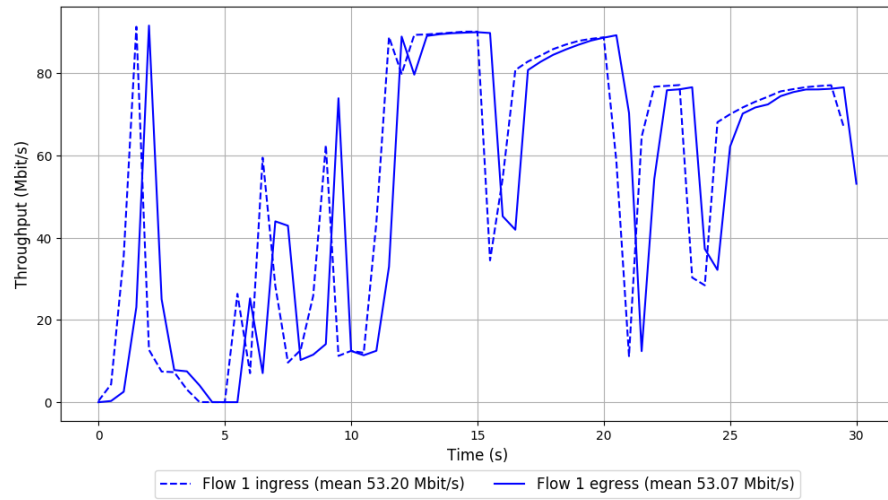
-- Flow 1:

Average throughput: 53.07 Mbit/s

95th percentile per-packet one-way delay: 86.054 ms

Loss rate: 0.80%

Run 10: Report of QUIC Cubic — Data Link

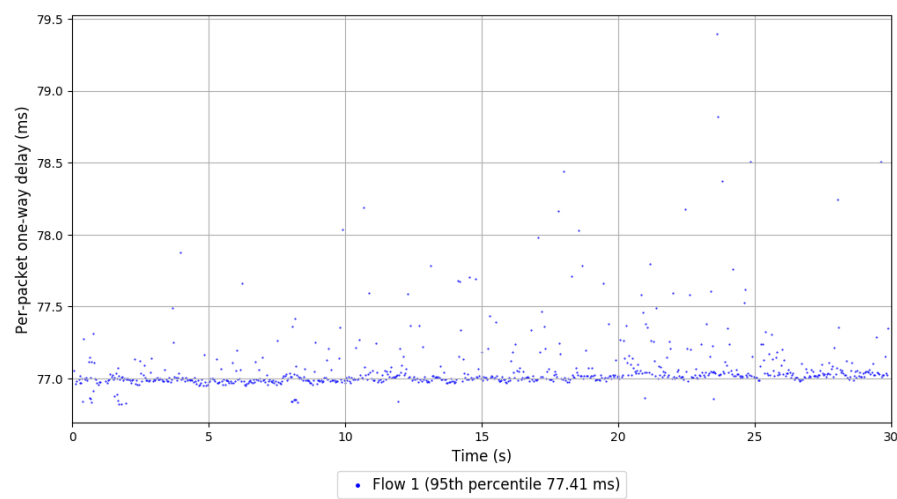
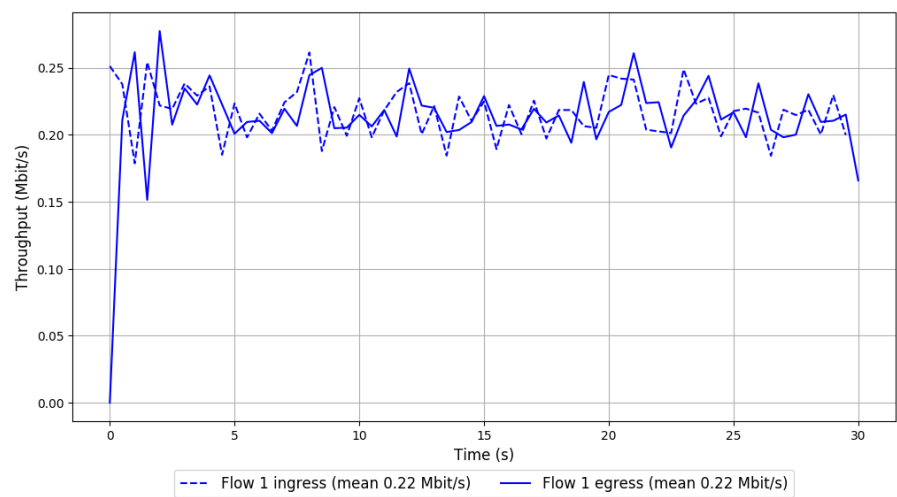


Run 1: Statistics of SCReAM

Start at: 2018-07-18 01:09:27
End at: 2018-07-18 01:09:57
Local clock offset: -2.369 ms
Remote clock offset: 14.439 ms

Below is generated by plot.py at 2018-07-18 04:40:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 77.413 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 77.413 ms
Loss rate: 0.51%

Run 1: Report of SReAM — Data Link

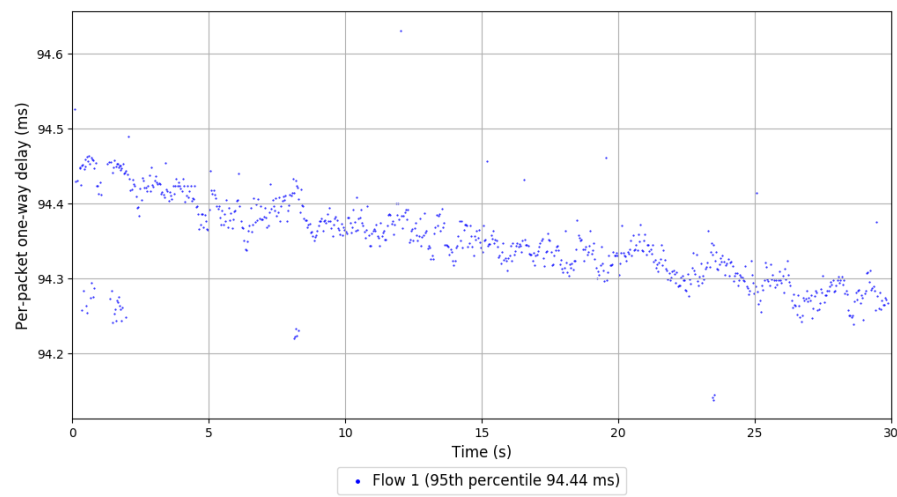
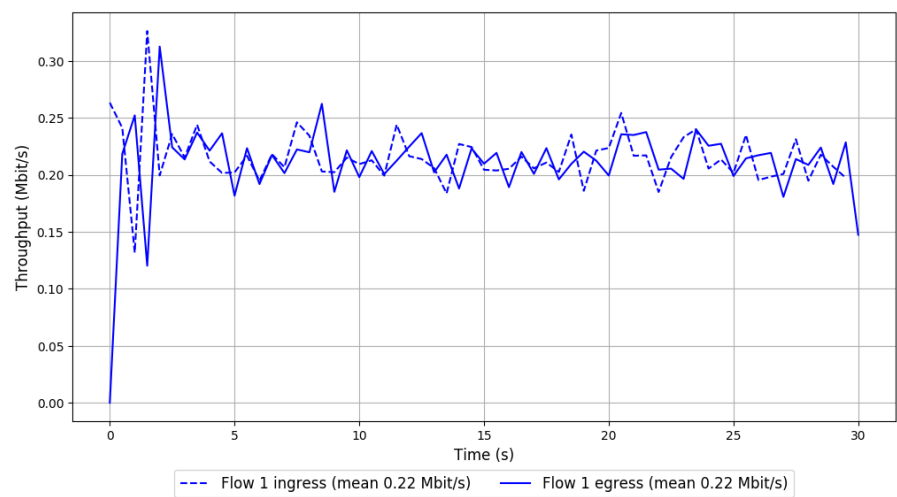


Run 2: Statistics of SCReAM

Start at: 2018-07-18 01:29:08
End at: 2018-07-18 01:29:38
Local clock offset: -2.313 ms
Remote clock offset: 12.197 ms

Below is generated by plot.py at 2018-07-18 04:40:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 94.443 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 94.443 ms
Loss rate: 0.64%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-07-18 01:48:54

End at: 2018-07-18 01:49:24

Local clock offset: -2.36 ms

Remote clock offset: 9.563 ms

Below is generated by plot.py at 2018-07-18 04:40:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.577 ms

Loss rate: 0.51%

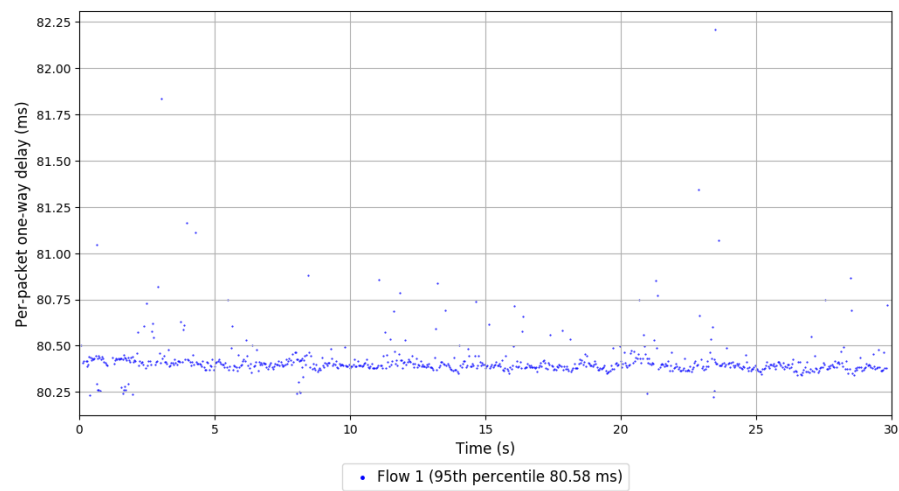
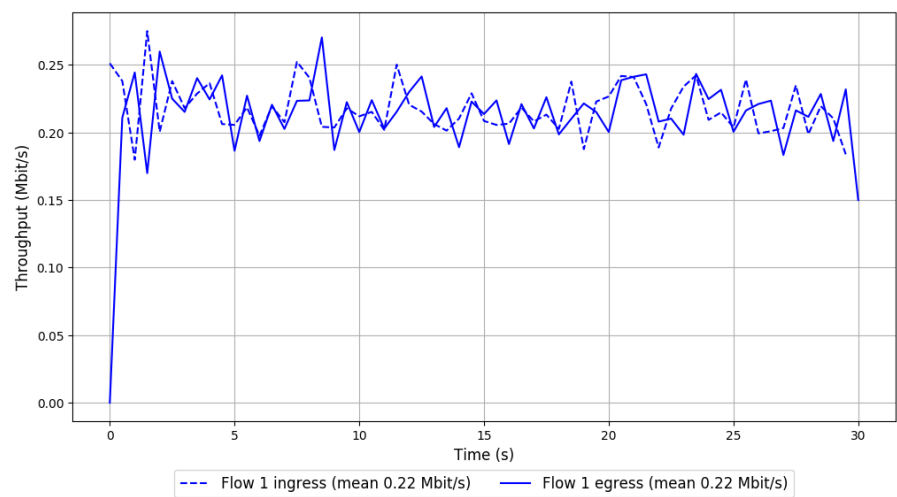
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.577 ms

Loss rate: 0.51%

Run 3: Report of SReAM — Data Link

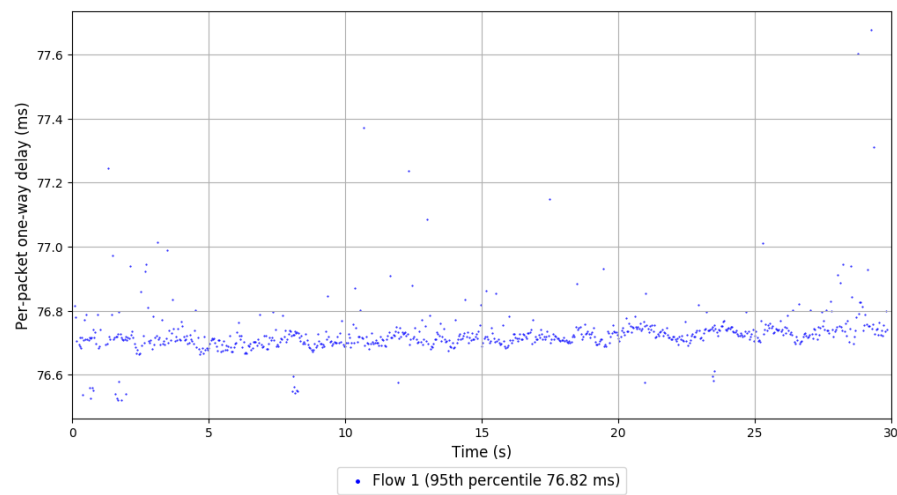
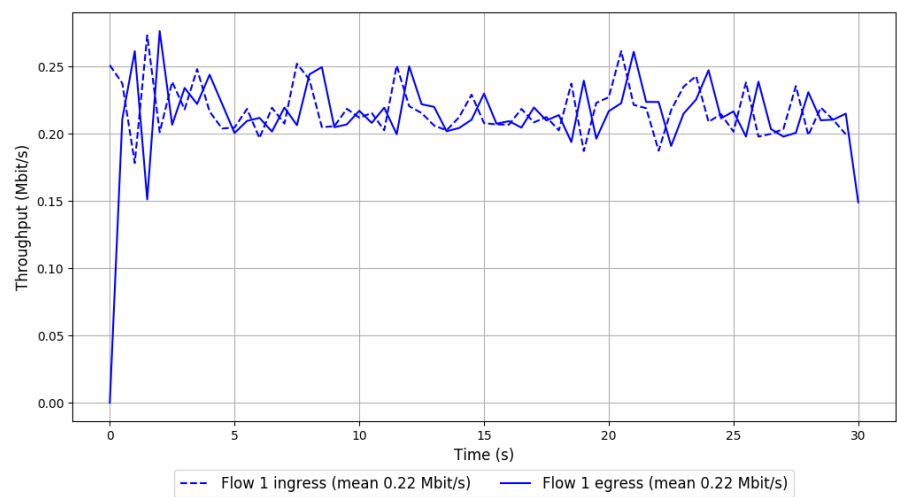


Run 4: Statistics of SCReAM

Start at: 2018-07-18 02:08:36
End at: 2018-07-18 02:09:06
Local clock offset: -2.605 ms
Remote clock offset: 12.259 ms

Below is generated by plot.py at 2018-07-18 04:40:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 76.818 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 76.818 ms
Loss rate: 0.64%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-07-18 02:28:23

End at: 2018-07-18 02:28:53

Local clock offset: -2.59 ms

Remote clock offset: 6.958 ms

Below is generated by plot.py at 2018-07-18 04:40:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.781 ms

Loss rate: 0.64%

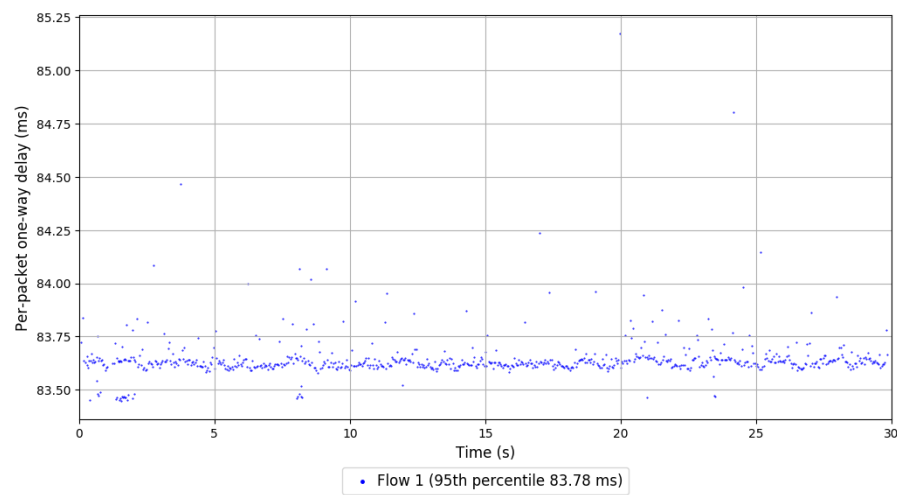
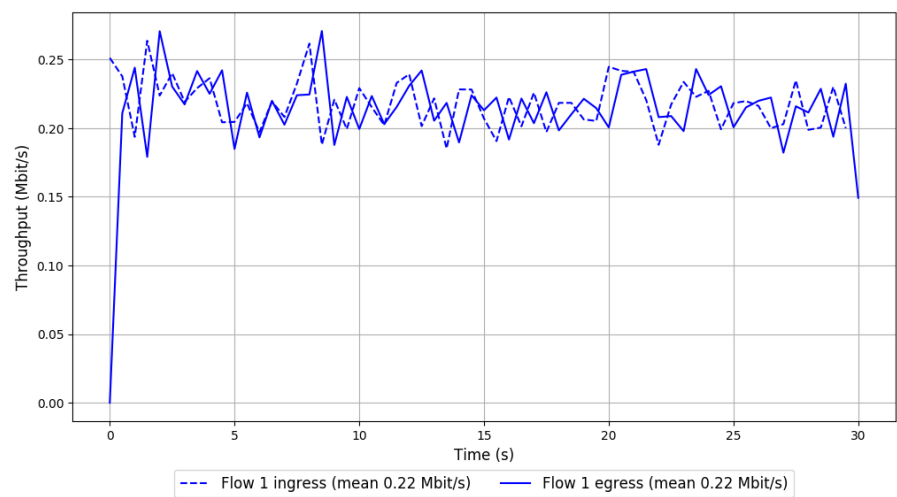
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.781 ms

Loss rate: 0.64%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-07-18 02:48:11

End at: 2018-07-18 02:48:41

Local clock offset: -2.624 ms

Remote clock offset: 1.878 ms

Below is generated by plot.py at 2018-07-18 04:40:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.954 ms

Loss rate: 0.51%

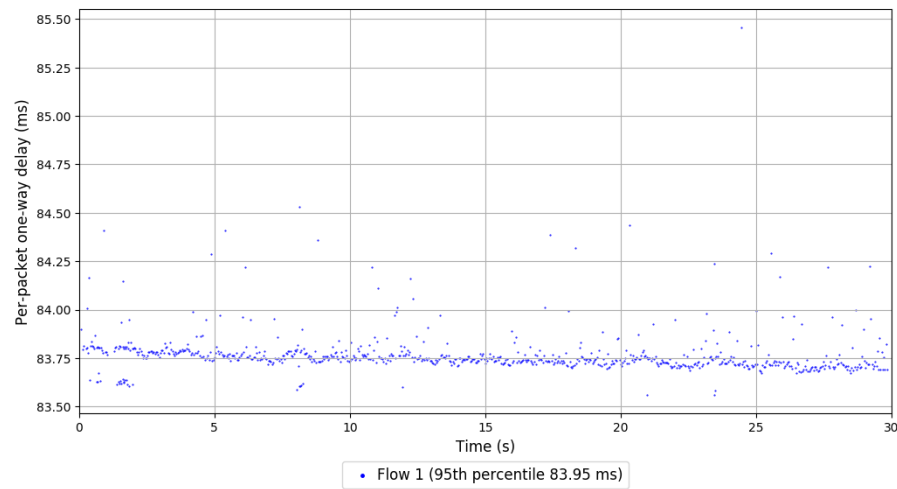
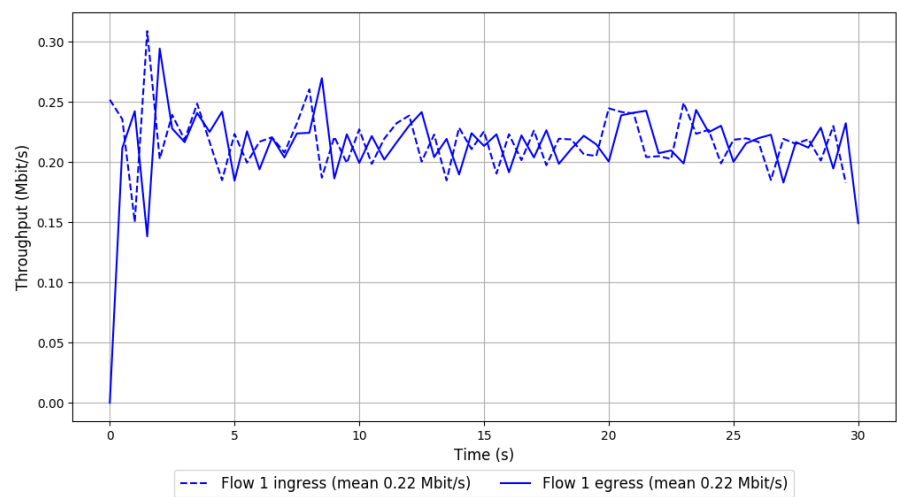
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.954 ms

Loss rate: 0.51%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-07-18 03:08:04

End at: 2018-07-18 03:08:34

Local clock offset: -3.055 ms

Remote clock offset: 1.599 ms

Below is generated by plot.py at 2018-07-18 04:40:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 82.587 ms

Loss rate: 0.64%

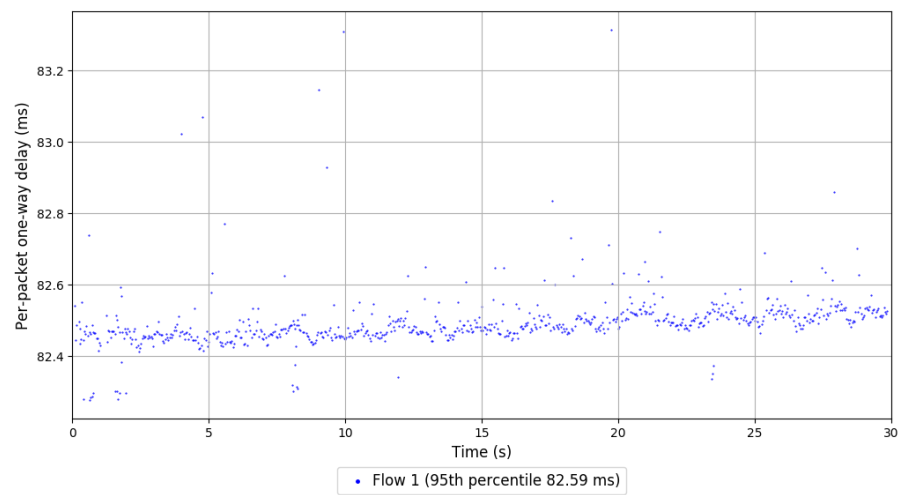
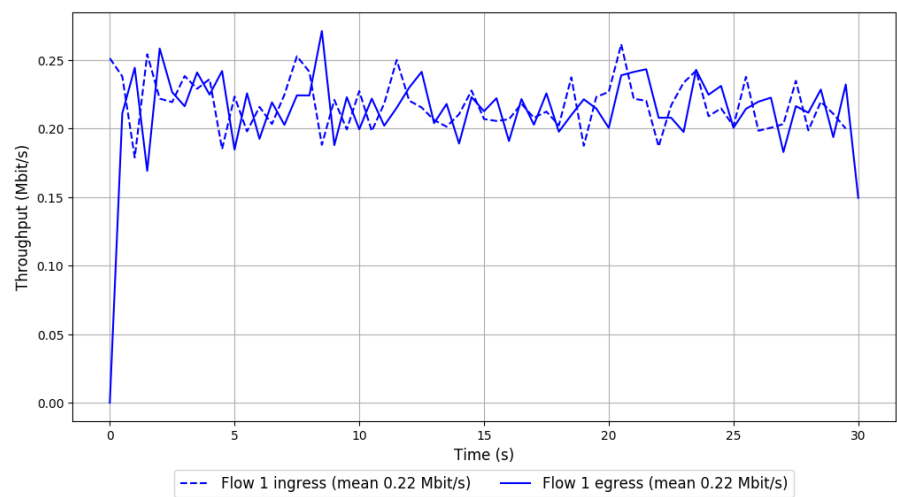
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 82.587 ms

Loss rate: 0.64%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-07-18 03:27:56

End at: 2018-07-18 03:28:26

Local clock offset: -3.041 ms

Remote clock offset: 3.018 ms

Below is generated by plot.py at 2018-07-18 04:40:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.126 ms

Loss rate: 0.64%

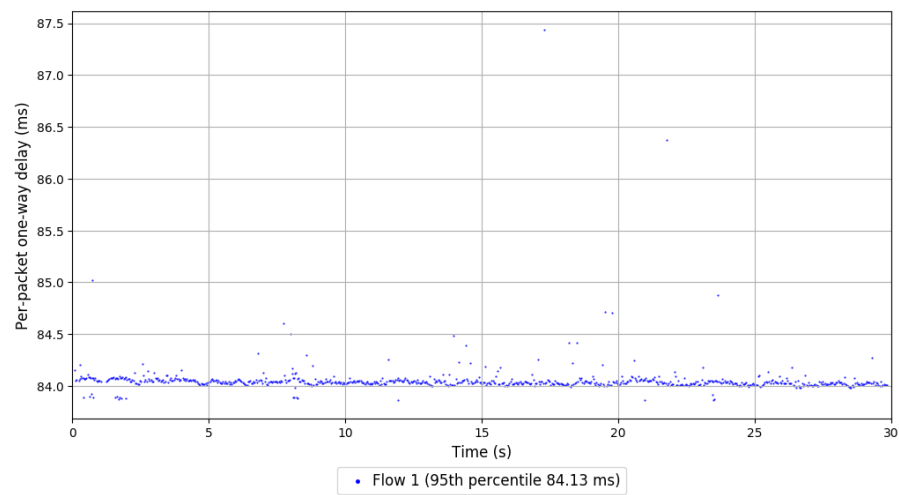
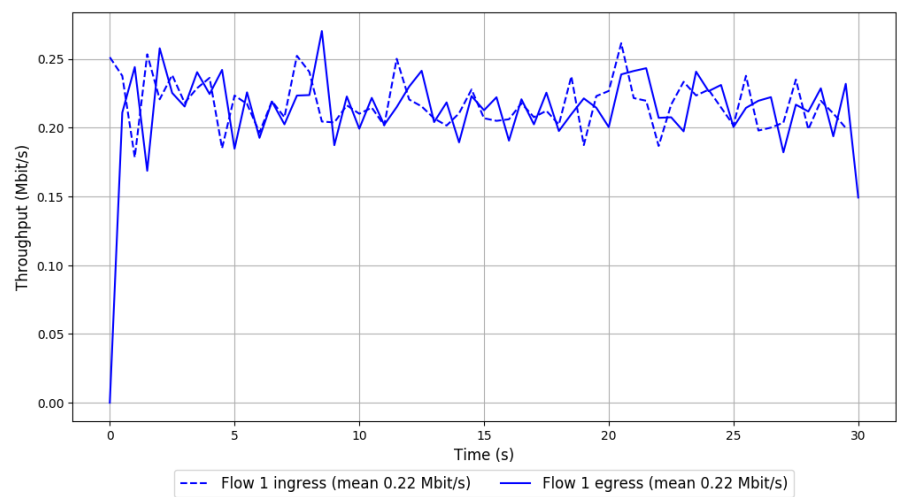
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.126 ms

Loss rate: 0.64%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-07-18 03:47:48

End at: 2018-07-18 03:48:18

Local clock offset: -2.61 ms

Remote clock offset: 3.916 ms

Below is generated by plot.py at 2018-07-18 04:40:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 82.069 ms

Loss rate: 0.64%

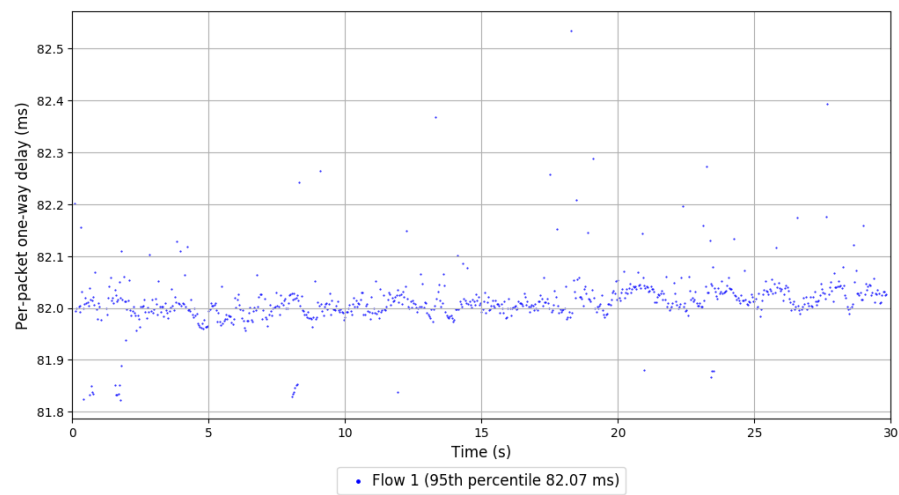
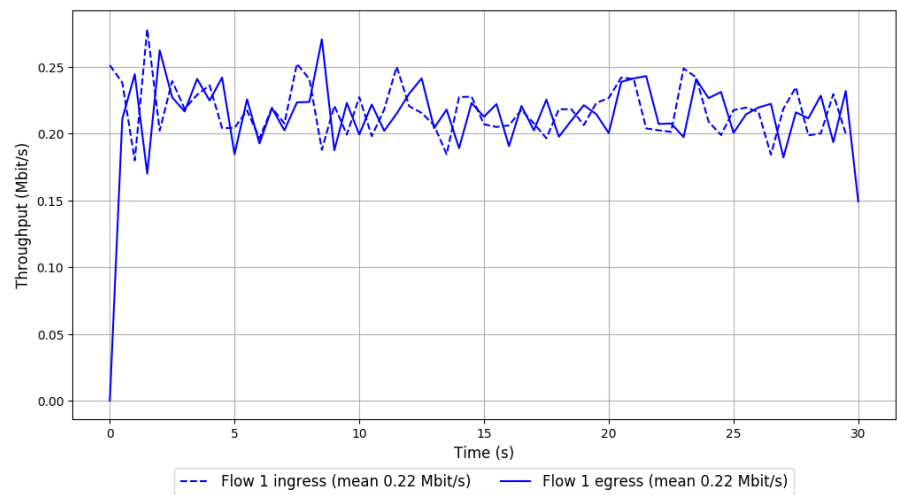
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 82.069 ms

Loss rate: 0.64%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-07-18 04:07:38

End at: 2018-07-18 04:08:08

Local clock offset: -2.132 ms

Remote clock offset: 8.608 ms

Below is generated by plot.py at 2018-07-18 04:40:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 78.281 ms

Loss rate: 0.51%

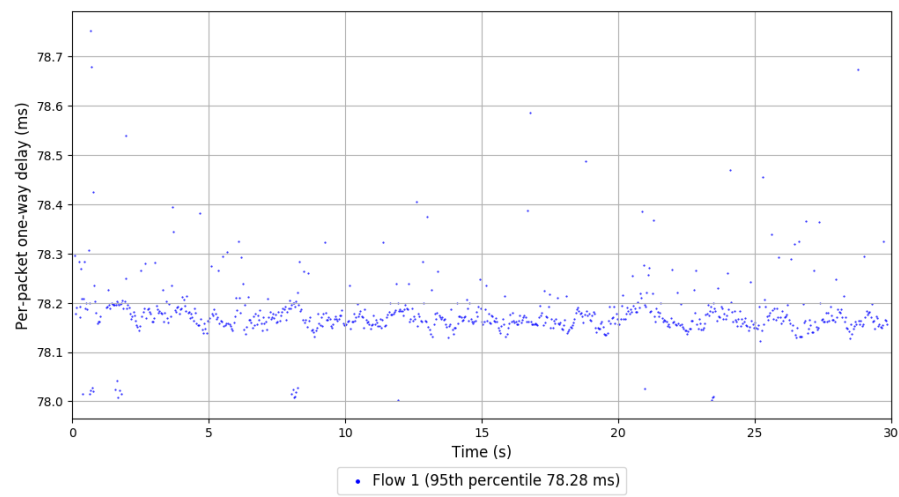
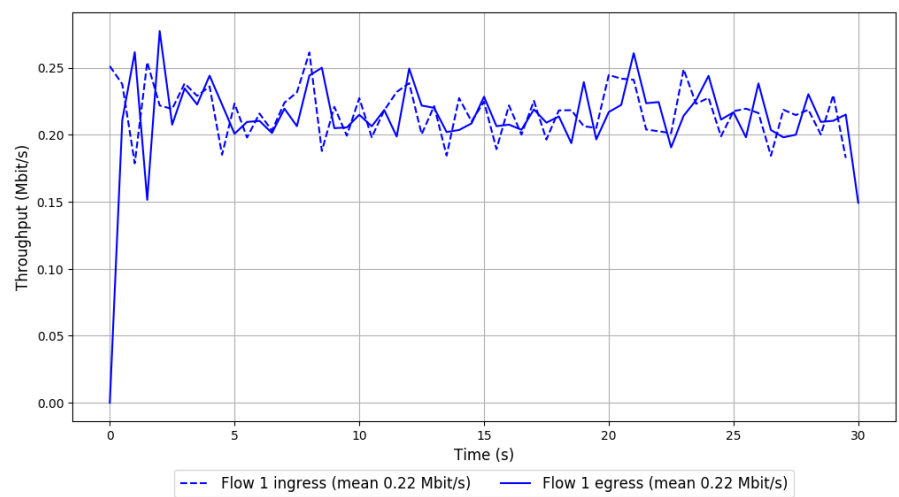
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 78.281 ms

Loss rate: 0.51%

Run 10: Report of SCRAM — Data Link

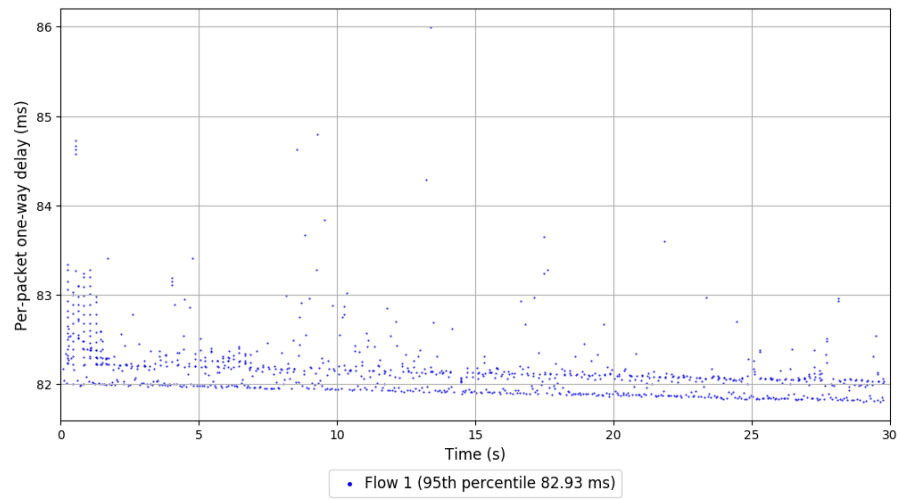
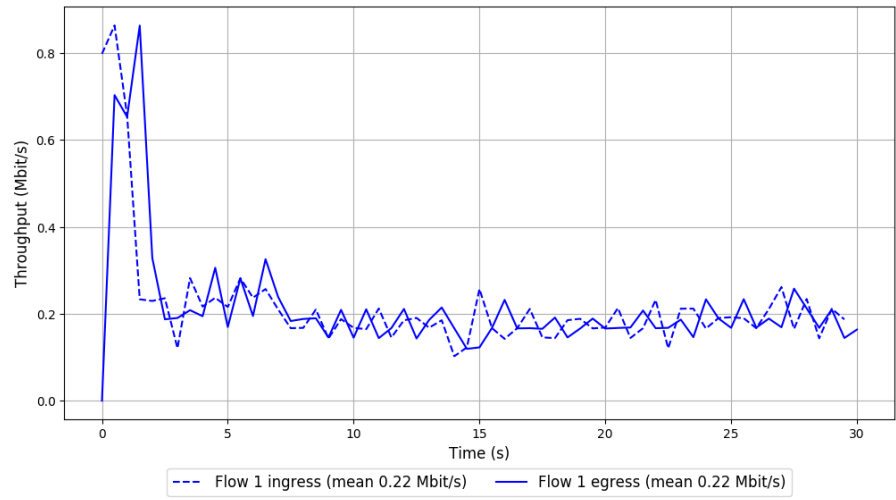


Run 1: Statistics of Sprout

Start at: 2018-07-18 01:26:49
End at: 2018-07-18 01:27:19
Local clock offset: -2.135 ms
Remote clock offset: 11.256 ms

Below is generated by plot.py at 2018-07-18 04:40:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.930 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.930 ms
Loss rate: 0.70%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-07-18 01:46:35

End at: 2018-07-18 01:47:05

Local clock offset: -2.382 ms

Remote clock offset: 5.615 ms

Below is generated by plot.py at 2018-07-18 04:40:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 85.466 ms

Loss rate: 0.23%

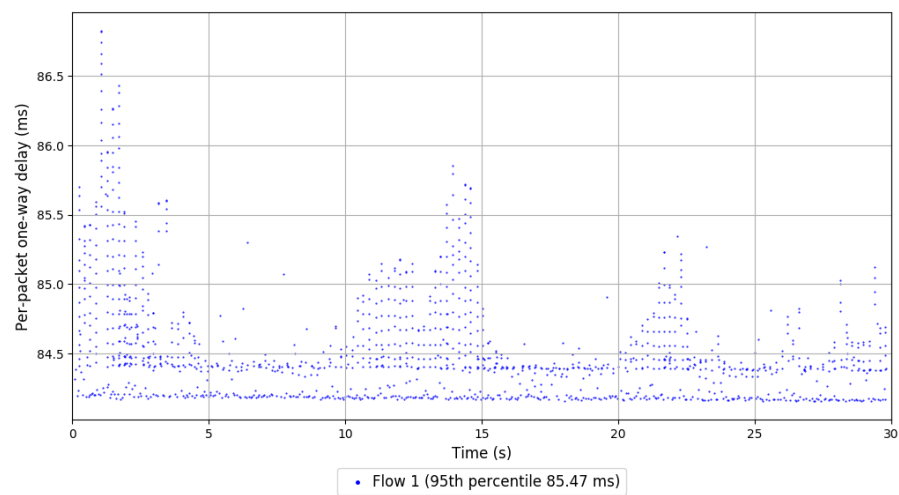
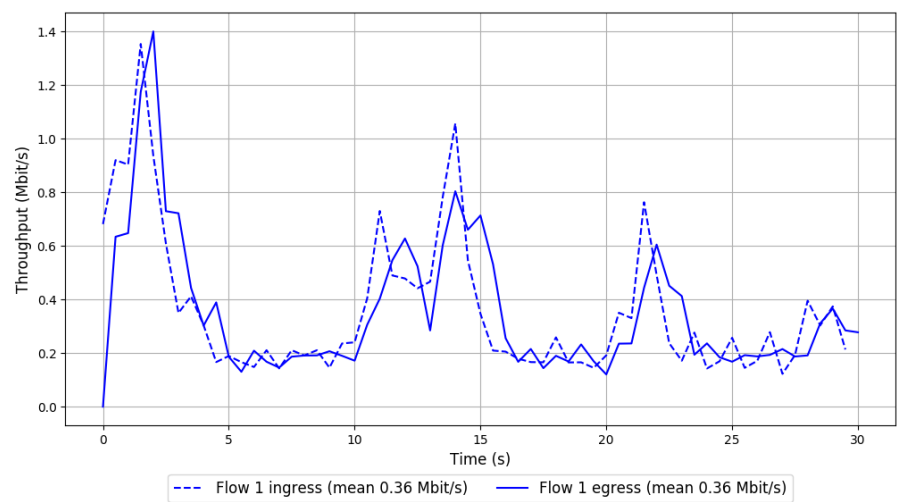
-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 85.466 ms

Loss rate: 0.23%

Run 2: Report of Sprout — Data Link

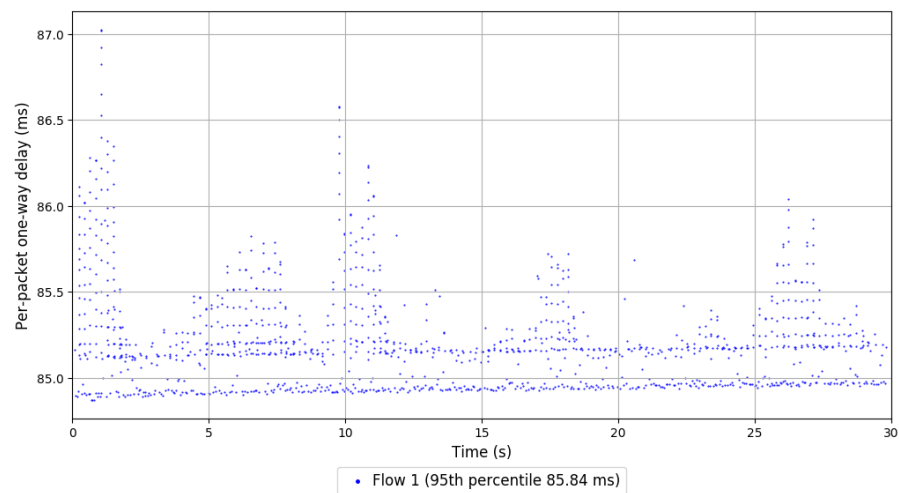
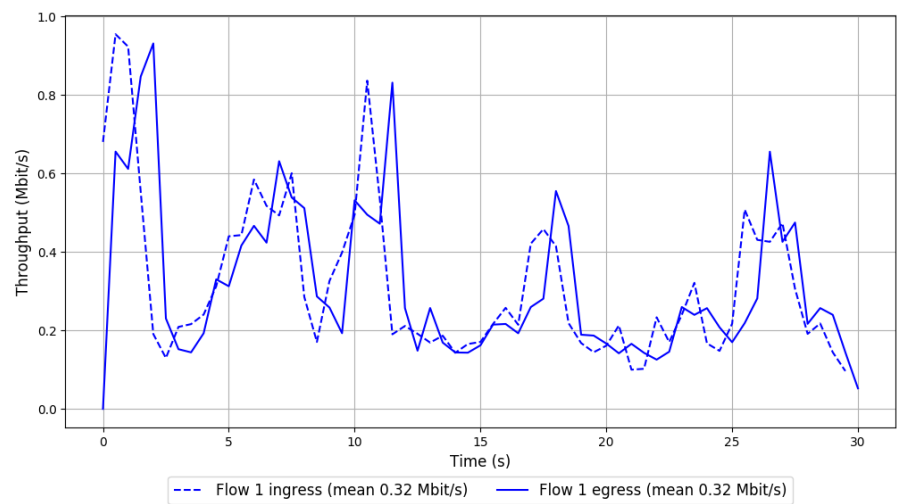


Run 3: Statistics of Sprout

Start at: 2018-07-18 02:06:18
End at: 2018-07-18 02:06:48
Local clock offset: -2.542 ms
Remote clock offset: 6.089 ms

Below is generated by plot.py at 2018-07-18 04:40:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 85.841 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 85.841 ms
Loss rate: 0.24%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-07-18 02:26:04

End at: 2018-07-18 02:26:34

Local clock offset: -2.528 ms

Remote clock offset: 7.84 ms

Below is generated by plot.py at 2018-07-18 04:40:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 83.367 ms

Loss rate: 0.13%

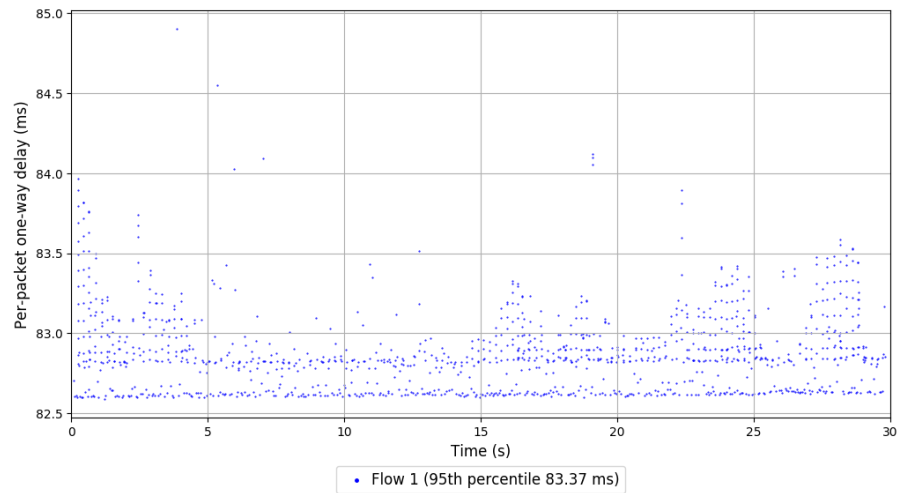
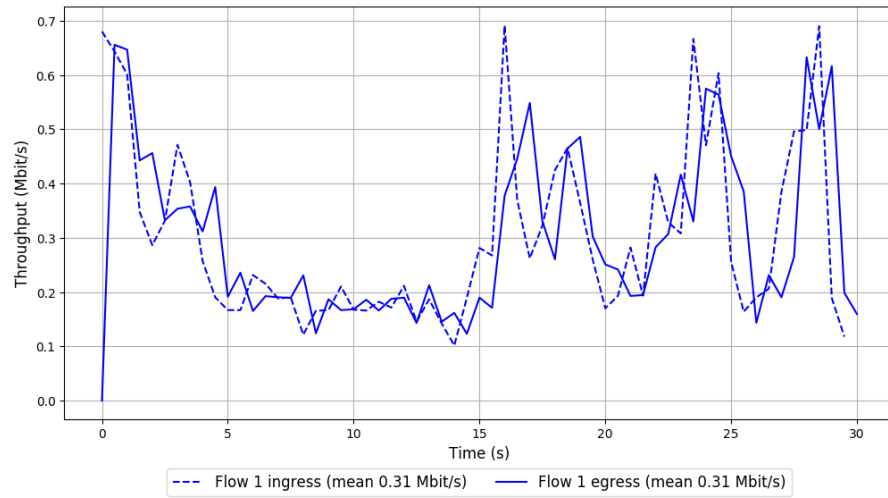
-- Flow 1:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 83.367 ms

Loss rate: 0.13%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-07-18 02:45:51

End at: 2018-07-18 02:46:21

Local clock offset: -2.627 ms

Remote clock offset: 7.321 ms

Below is generated by plot.py at 2018-07-18 04:40:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 80.055 ms

Loss rate: 0.27%

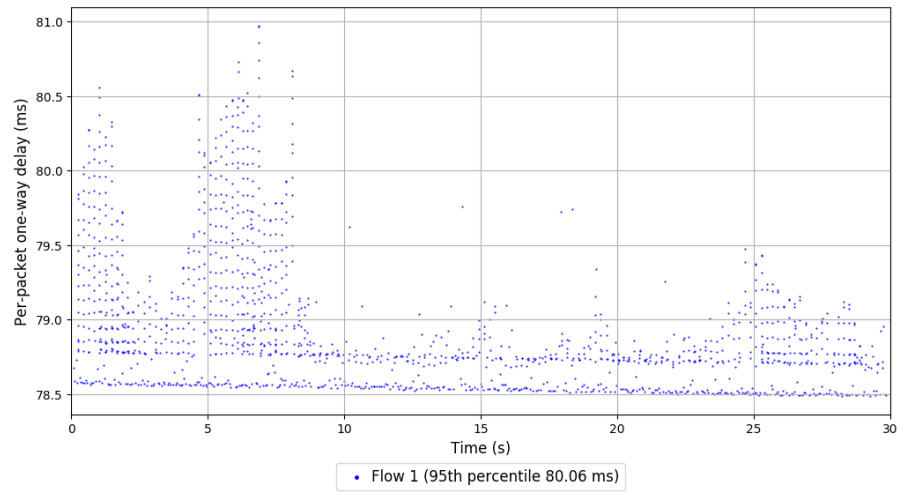
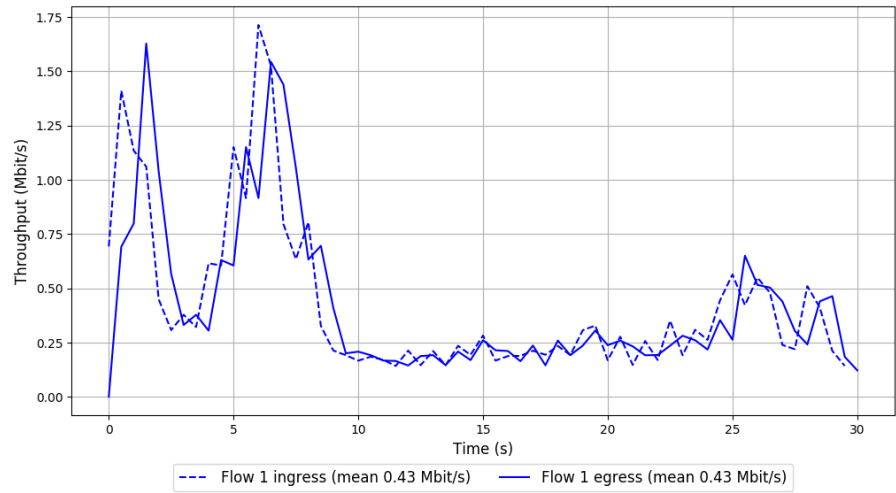
-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 80.055 ms

Loss rate: 0.27%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-07-18 03:05:46

End at: 2018-07-18 03:06:16

Local clock offset: -2.946 ms

Remote clock offset: 0.186 ms

Below is generated by plot.py at 2018-07-18 04:40:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 86.356 ms

Loss rate: 0.26%

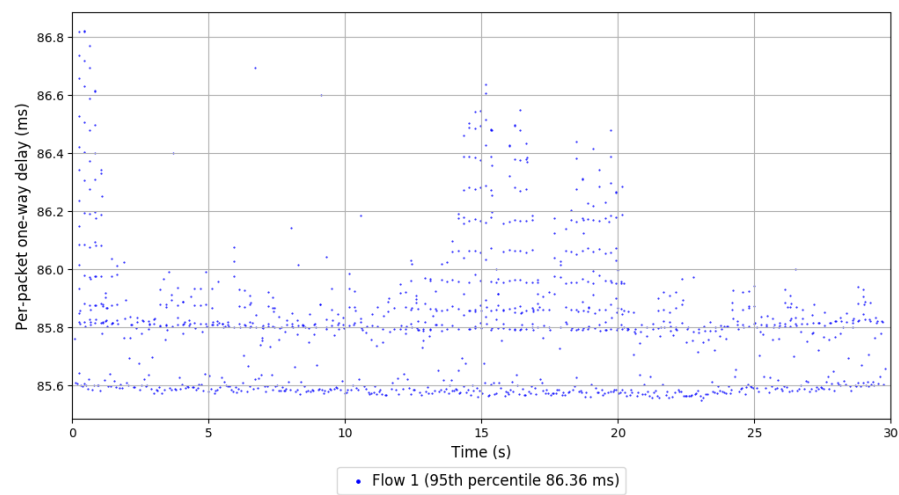
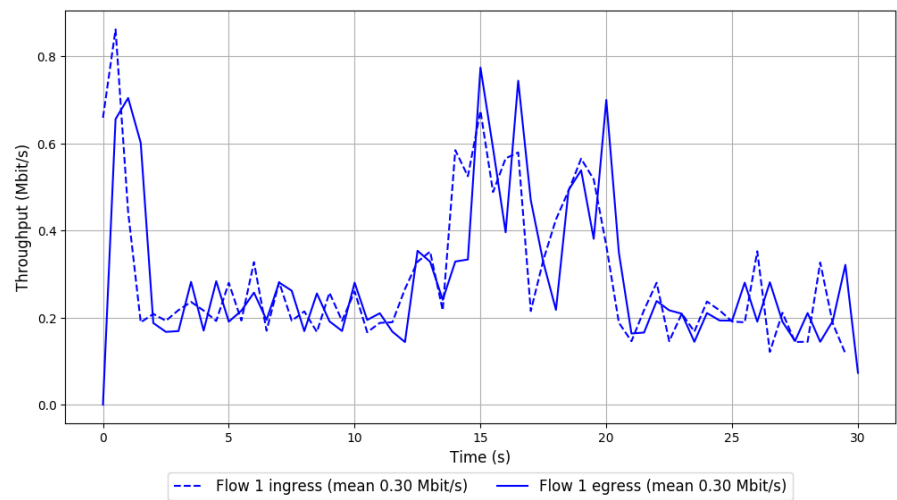
-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 86.356 ms

Loss rate: 0.26%

Run 6: Report of Sprout — Data Link

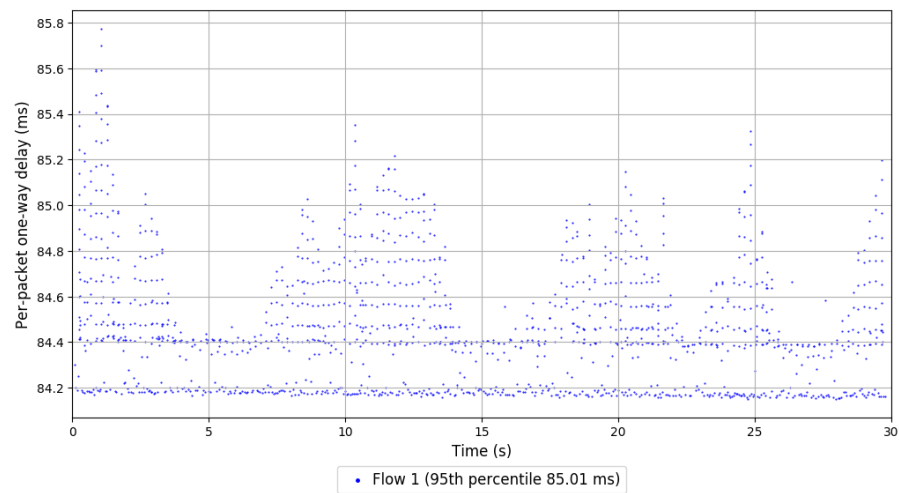
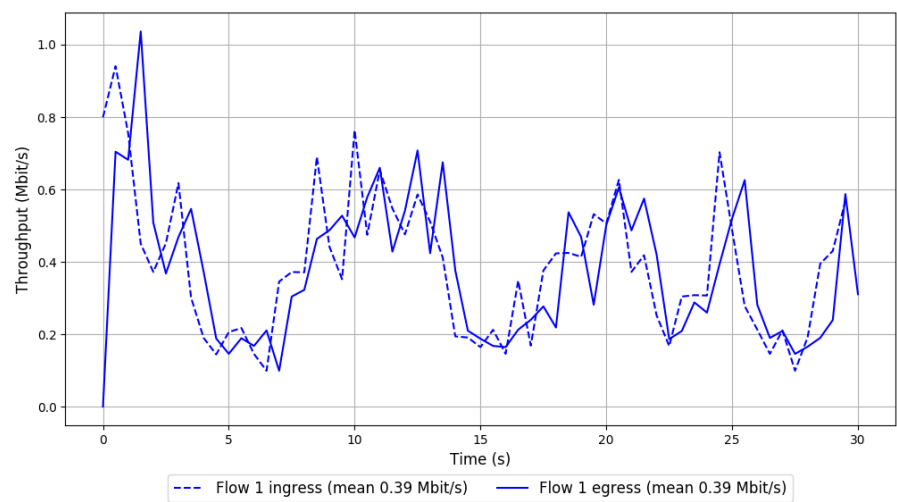


Run 7: Statistics of Sprout

Start at: 2018-07-18 03:25:38
End at: 2018-07-18 03:26:08
Local clock offset: -3.083 ms
Remote clock offset: 2.986 ms

Below is generated by plot.py at 2018-07-18 04:40:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 85.008 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 85.008 ms
Loss rate: 1.11%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-07-18 03:45:29

End at: 2018-07-18 03:45:59

Local clock offset: -2.571 ms

Remote clock offset: 7.565 ms

Below is generated by plot.py at 2018-07-18 04:40:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 79.134 ms

Loss rate: 0.59%

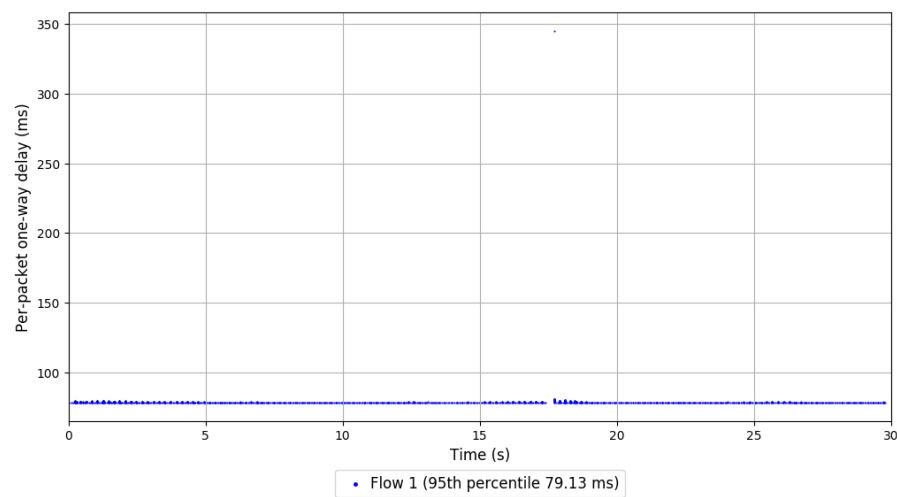
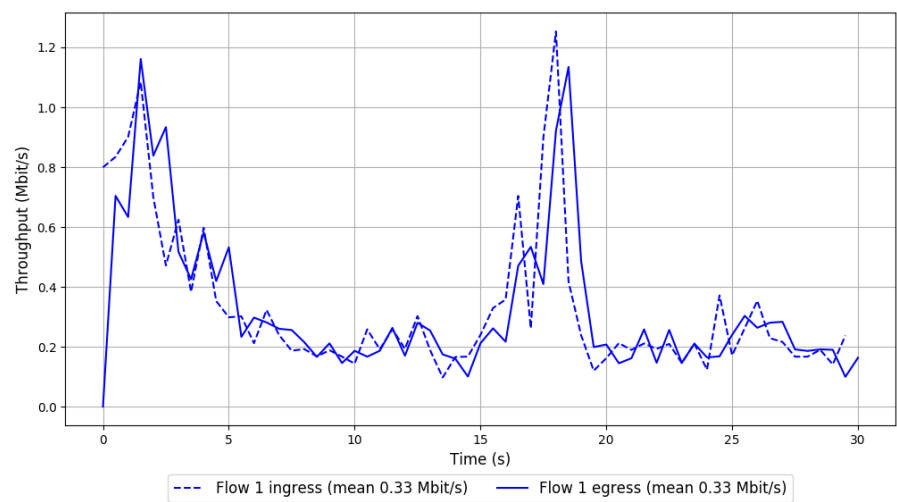
-- Flow 1:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 79.134 ms

Loss rate: 0.59%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-07-18 04:05:19

End at: 2018-07-18 04:05:49

Local clock offset: -2.196 ms

Remote clock offset: 7.489 ms

Below is generated by plot.py at 2018-07-18 04:40:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 82.175 ms

Loss rate: 0.59%

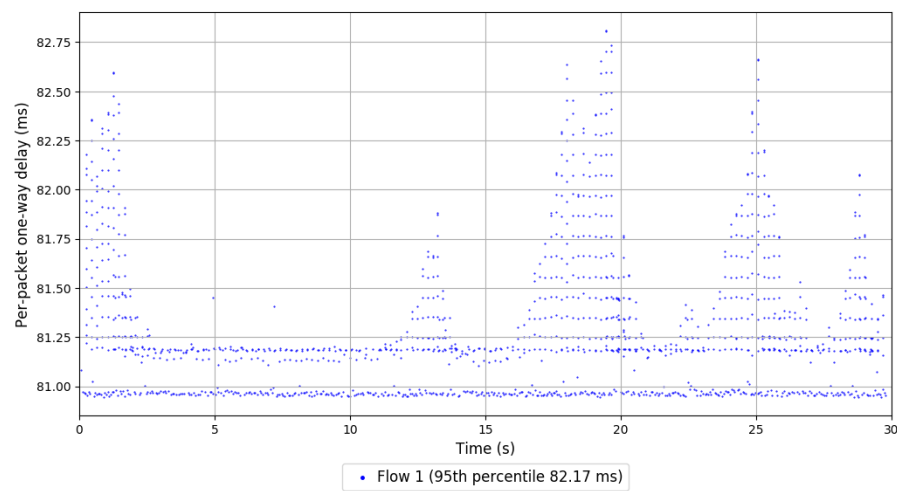
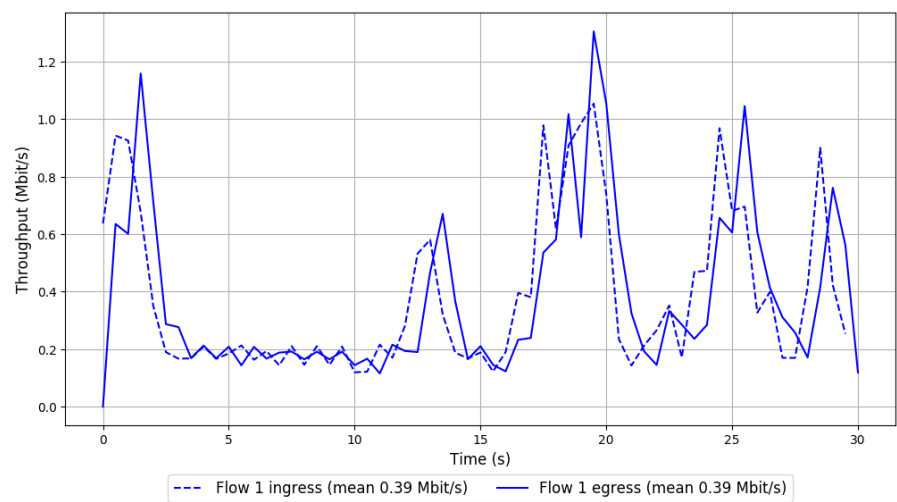
-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 82.175 ms

Loss rate: 0.59%

Run 9: Report of Sprout — Data Link

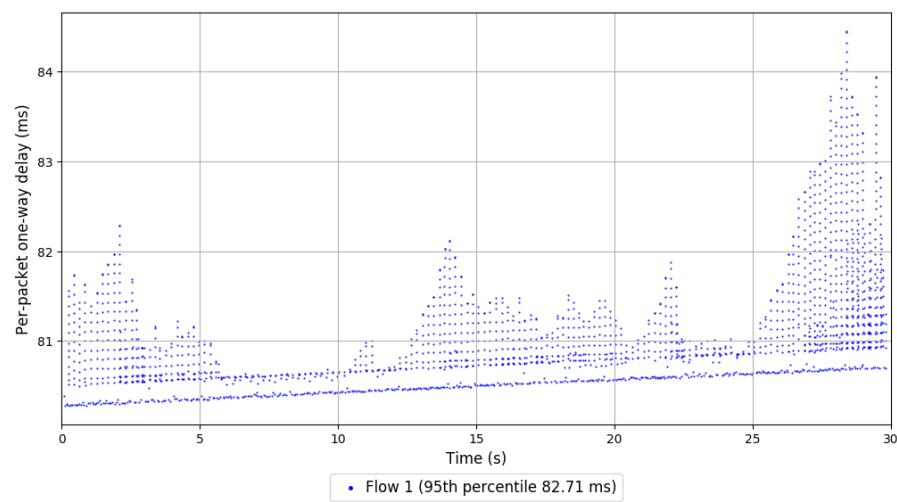
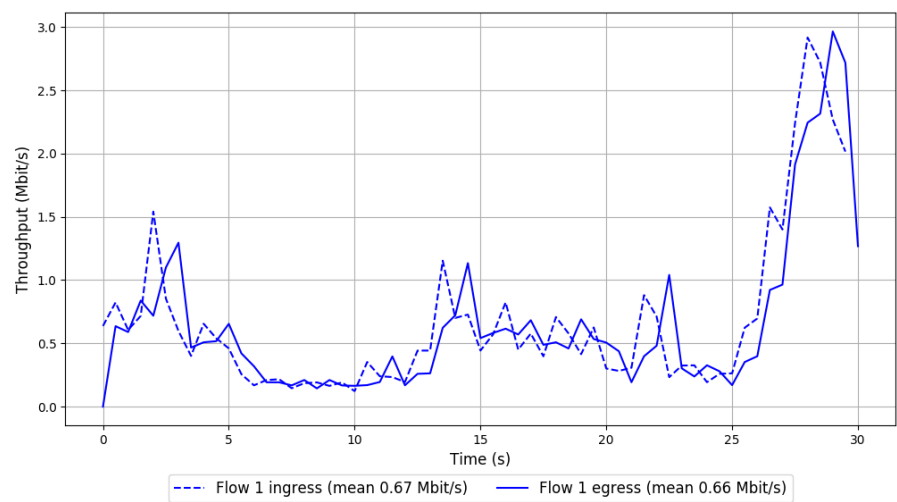


Run 10: Statistics of Sprout

Start at: 2018-07-18 04:25:12
End at: 2018-07-18 04:25:42
Local clock offset: -1.947 ms
Remote clock offset: 13.968 ms

Below is generated by plot.py at 2018-07-18 04:40:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 82.711 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 82.711 ms
Loss rate: 1.86%

Run 10: Report of Sprout — Data Link

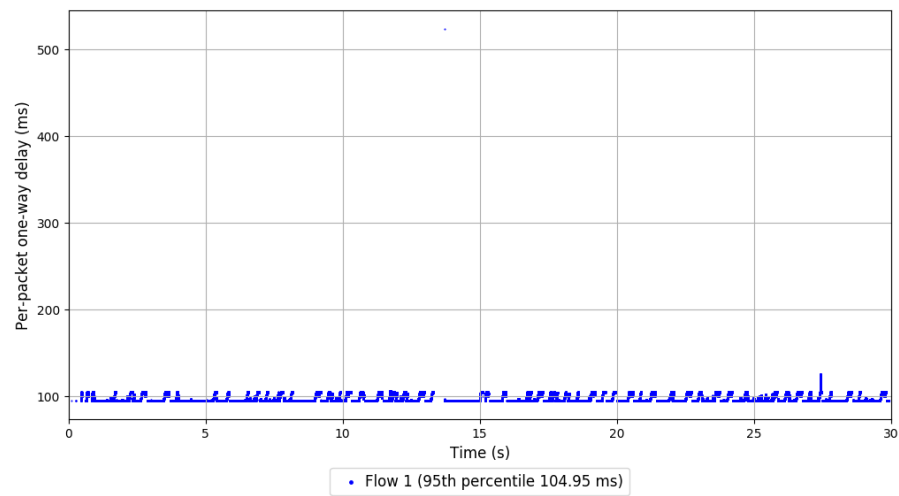
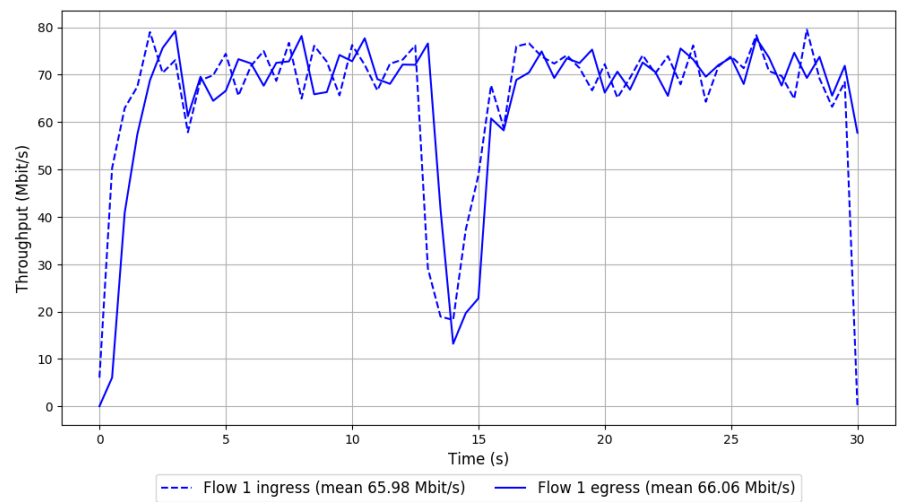


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-07-18 01:22:08
End at: 2018-07-18 01:22:38
Local clock offset: -2.172 ms
Remote clock offset: 13.446 ms

# Below is generated by plot.py at 2018-07-18 04:41:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.06 Mbit/s
95th percentile per-packet one-way delay: 104.950 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 66.06 Mbit/s
95th percentile per-packet one-way delay: 104.950 ms
Loss rate: 0.50%
```


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



Run 2: Statistics of TaoVA-100x

Start at: 2018-07-18 01:41:51

End at: 2018-07-18 01:42:21

Local clock offset: -2.394 ms

Remote clock offset: 5.886 ms

Below is generated by plot.py at 2018-07-18 04:41:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.77 Mbit/s

95th percentile per-packet one-way delay: 93.904 ms

Loss rate: 0.56%

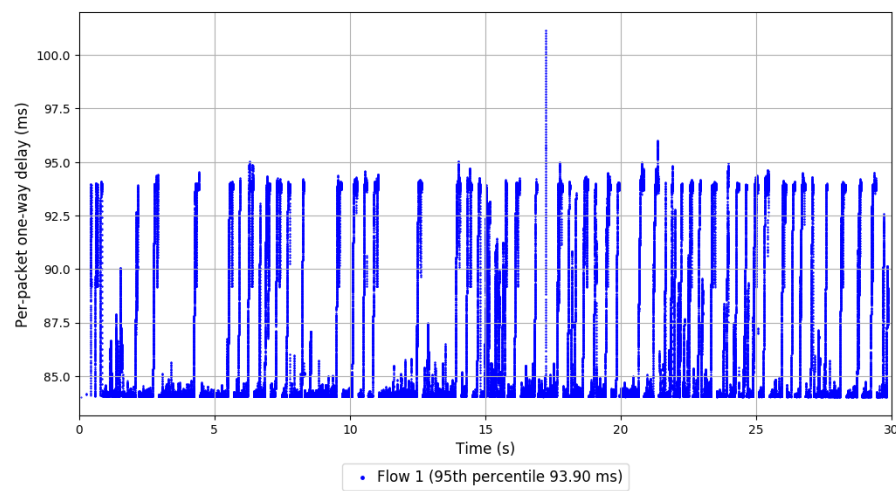
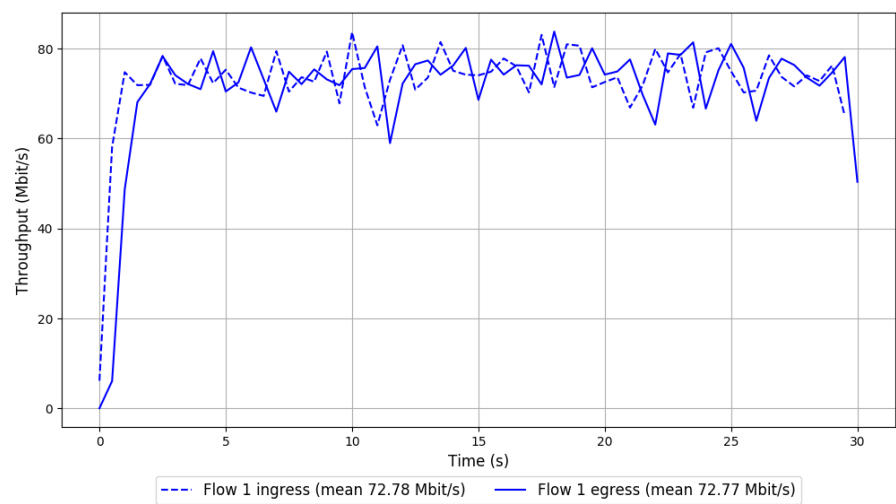
-- Flow 1:

Average throughput: 72.77 Mbit/s

95th percentile per-packet one-way delay: 93.904 ms

Loss rate: 0.56%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-07-18 02:01:38

End at: 2018-07-18 02:02:08

Local clock offset: -2.482 ms

Remote clock offset: 6.335 ms

Below is generated by plot.py at 2018-07-18 04:41:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.55 Mbit/s

95th percentile per-packet one-way delay: 94.164 ms

Loss rate: 0.58%

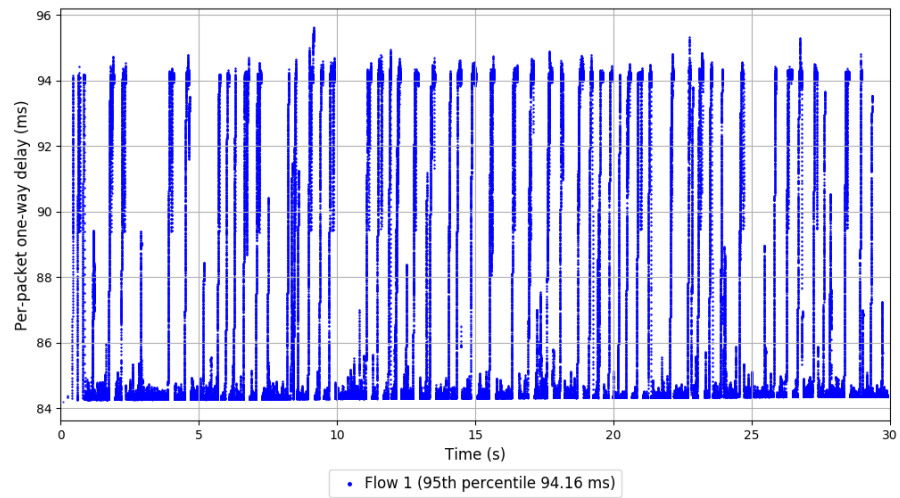
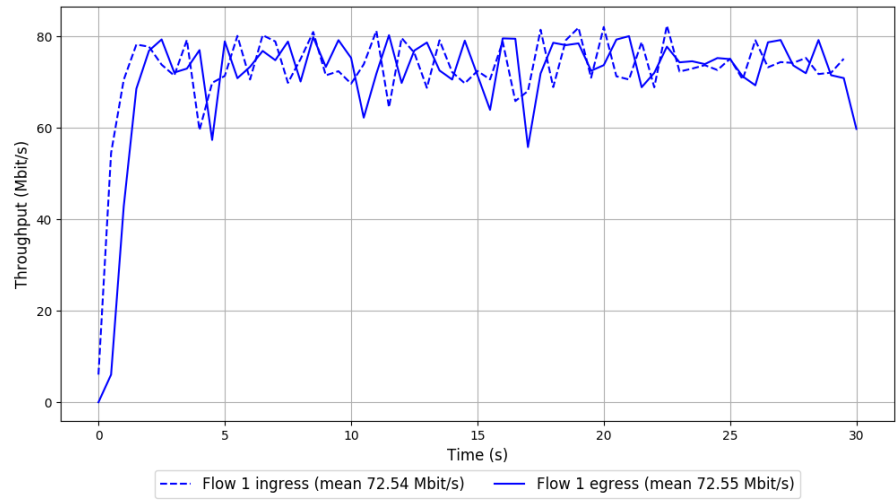
-- Flow 1:

Average throughput: 72.55 Mbit/s

95th percentile per-packet one-way delay: 94.164 ms

Loss rate: 0.58%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-07-18 02:21:21

End at: 2018-07-18 02:21:51

Local clock offset: -2.549 ms

Remote clock offset: 6.688 ms

Below is generated by plot.py at 2018-07-18 04:42:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.76 Mbit/s

95th percentile per-packet one-way delay: 93.266 ms

Loss rate: 0.61%

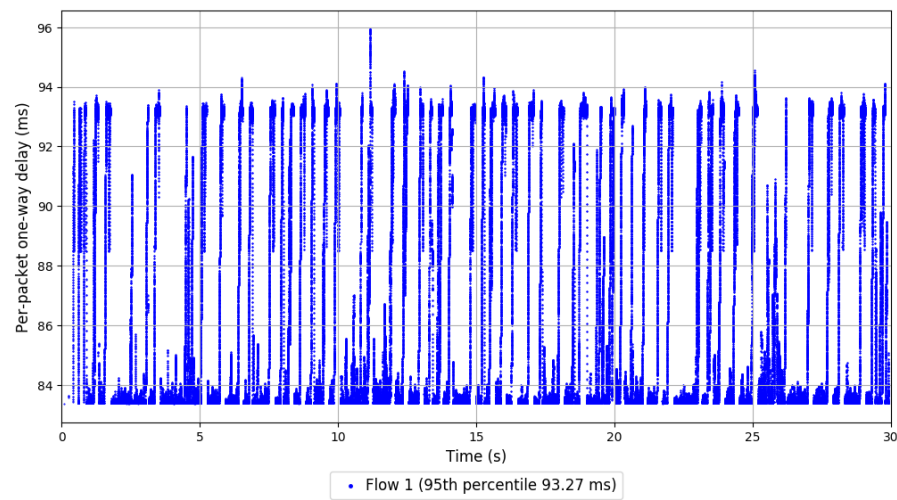
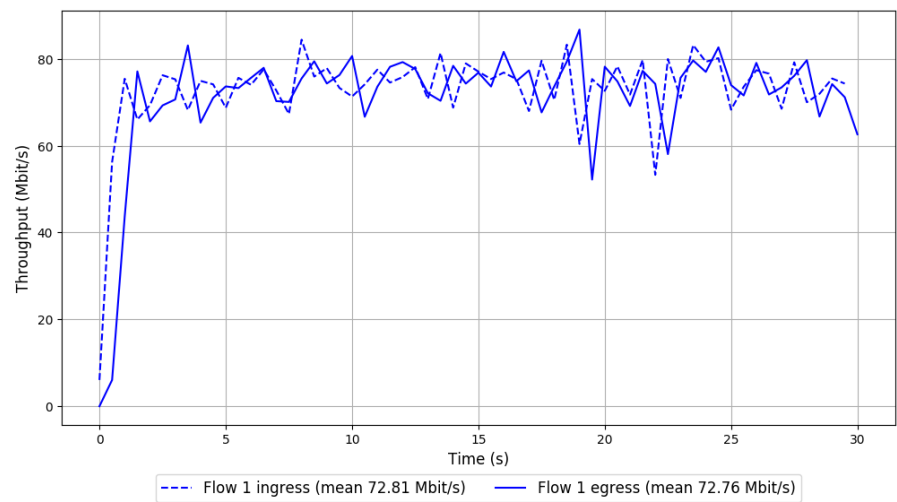
-- Flow 1:

Average throughput: 72.76 Mbit/s

95th percentile per-packet one-way delay: 93.266 ms

Loss rate: 0.61%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-07-18 02:41:06

End at: 2018-07-18 02:41:36

Local clock offset: -2.716 ms

Remote clock offset: 4.541 ms

Below is generated by plot.py at 2018-07-18 04:42:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.14 Mbit/s

95th percentile per-packet one-way delay: 94.465 ms

Loss rate: 0.64%

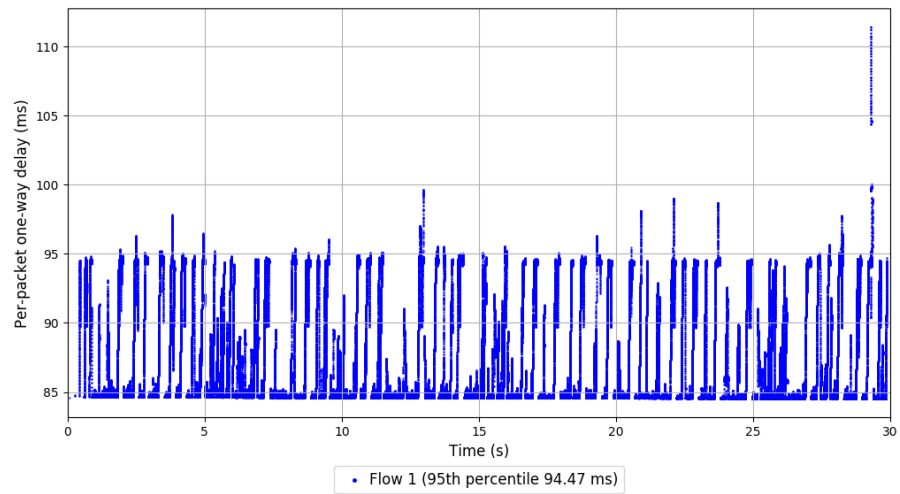
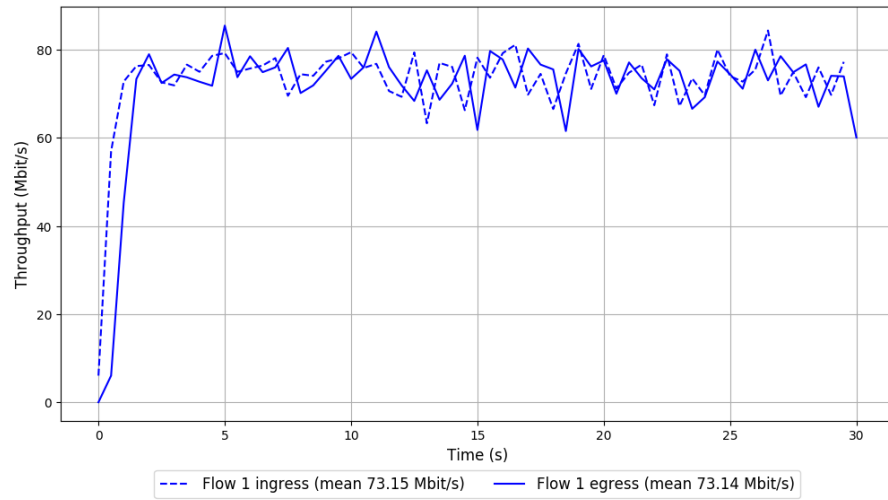
-- Flow 1:

Average throughput: 73.14 Mbit/s

95th percentile per-packet one-way delay: 94.465 ms

Loss rate: 0.64%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-07-18 03:00:56

End at: 2018-07-18 03:01:26

Local clock offset: -2.823 ms

Remote clock offset: 1.5 ms

Below is generated by plot.py at 2018-07-18 04:42:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.60 Mbit/s

95th percentile per-packet one-way delay: 92.714 ms

Loss rate: 0.52%

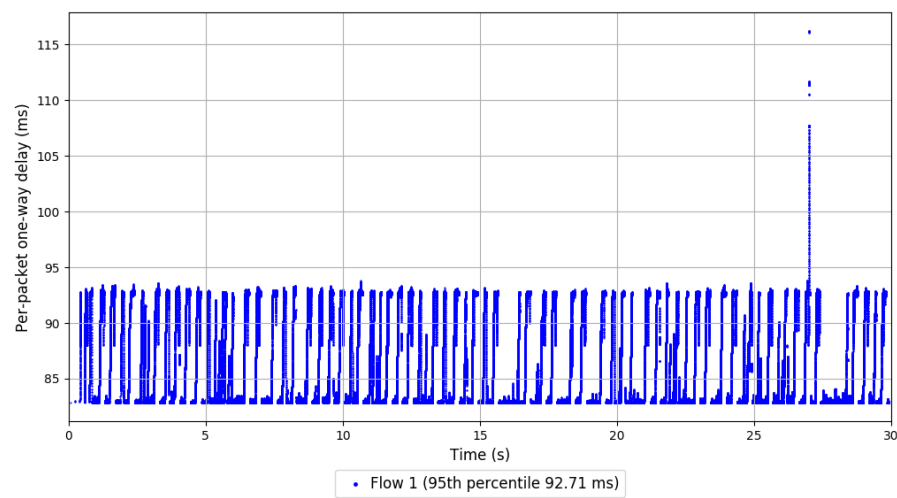
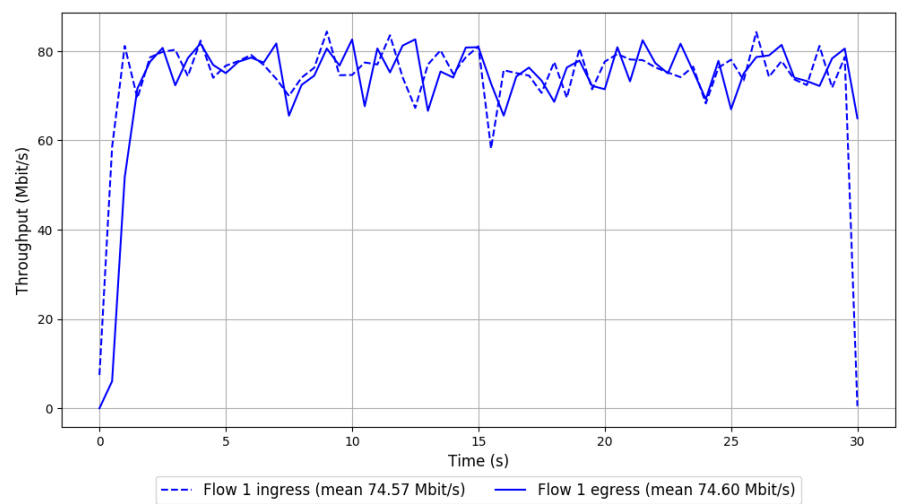
-- Flow 1:

Average throughput: 74.60 Mbit/s

95th percentile per-packet one-way delay: 92.714 ms

Loss rate: 0.52%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-18 03:20:51

End at: 2018-07-18 03:21:21

Local clock offset: -3.092 ms

Remote clock offset: 1.315 ms

Below is generated by plot.py at 2018-07-18 04:42:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.70 Mbit/s

95th percentile per-packet one-way delay: 93.748 ms

Loss rate: 0.52%

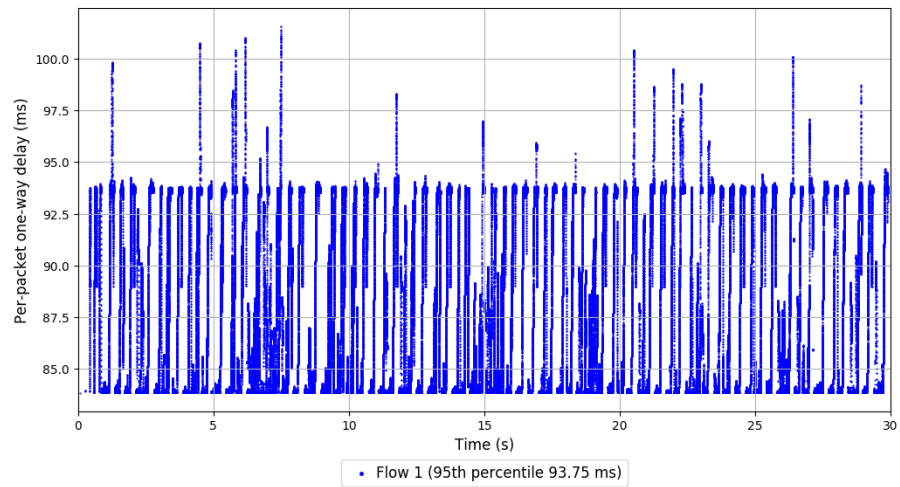
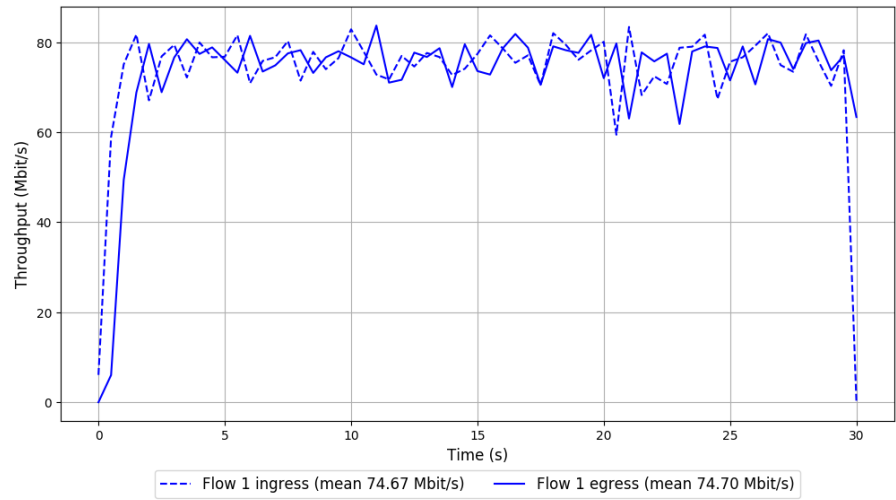
-- Flow 1:

Average throughput: 74.70 Mbit/s

95th percentile per-packet one-way delay: 93.748 ms

Loss rate: 0.52%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-18 03:40:45

End at: 2018-07-18 03:41:15

Local clock offset: -2.622 ms

Remote clock offset: 6.544 ms

Below is generated by plot.py at 2018-07-18 04:42:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.66 Mbit/s

95th percentile per-packet one-way delay: 88.214 ms

Loss rate: 0.57%

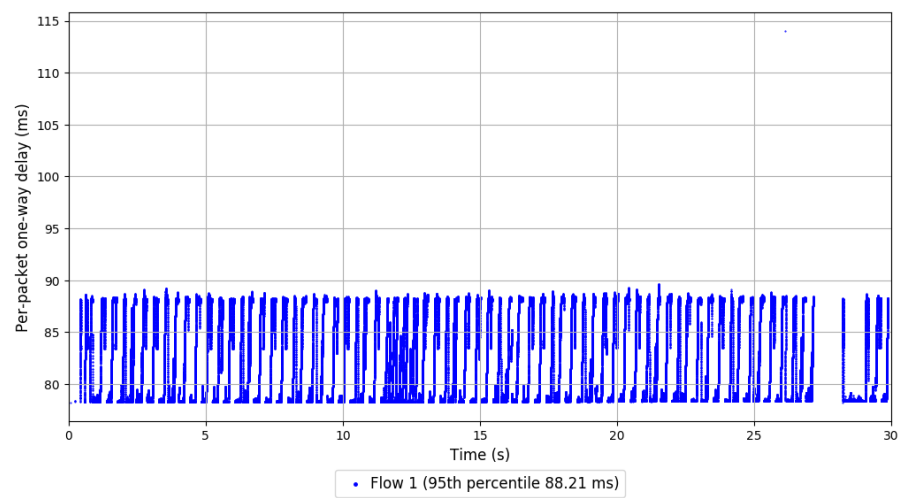
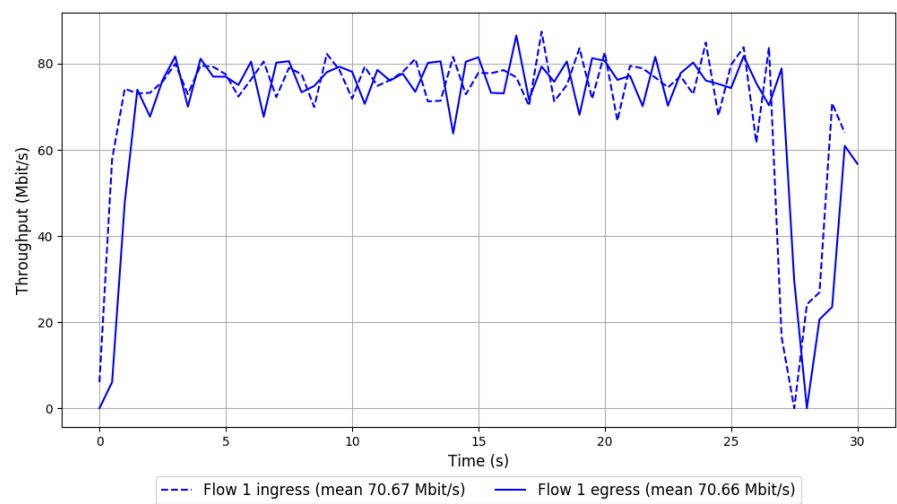
-- Flow 1:

Average throughput: 70.66 Mbit/s

95th percentile per-packet one-way delay: 88.214 ms

Loss rate: 0.57%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-07-18 04:00:34

End at: 2018-07-18 04:01:04

Local clock offset: -2.3 ms

Remote clock offset: 8.555 ms

Below is generated by plot.py at 2018-07-18 04:43:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.62 Mbit/s

95th percentile per-packet one-way delay: 90.101 ms

Loss rate: 0.64%

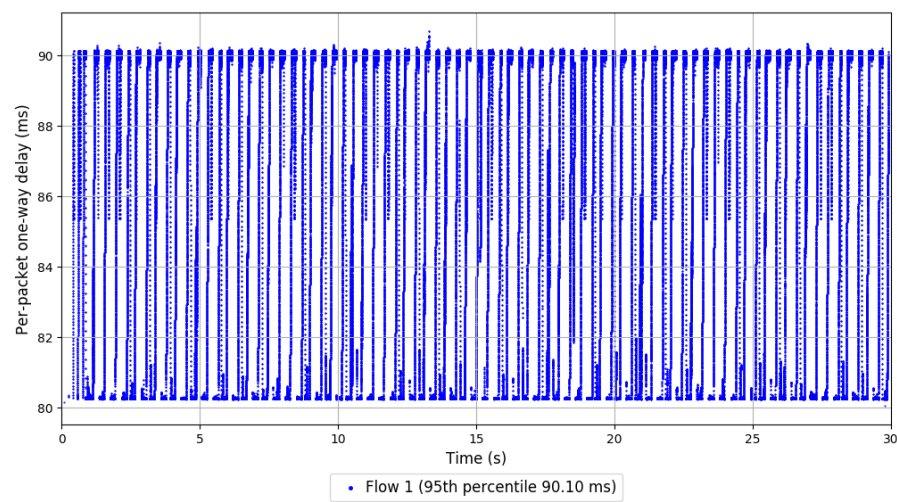
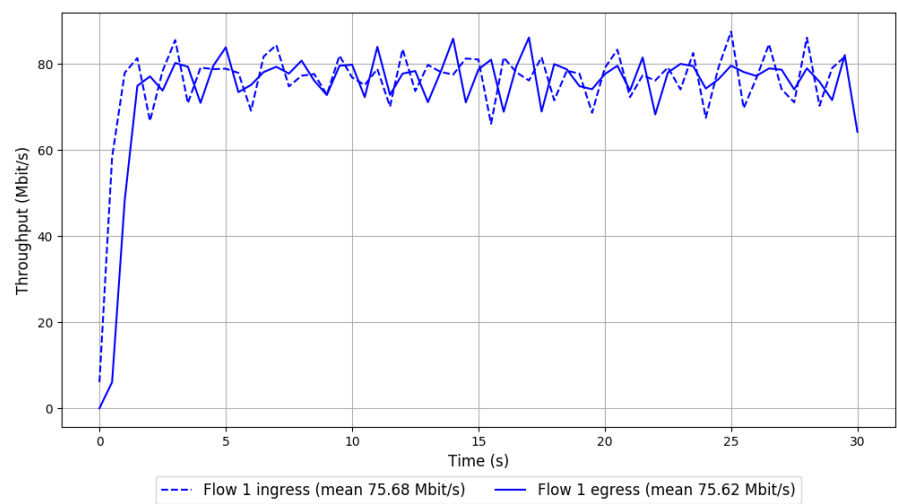
-- Flow 1:

Average throughput: 75.62 Mbit/s

95th percentile per-packet one-way delay: 90.101 ms

Loss rate: 0.64%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-18 04:20:24

End at: 2018-07-18 04:20:54

Local clock offset: -1.986 ms

Remote clock offset: 8.355 ms

Below is generated by plot.py at 2018-07-18 04:43:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.84 Mbit/s

95th percentile per-packet one-way delay: 91.856 ms

Loss rate: 0.53%

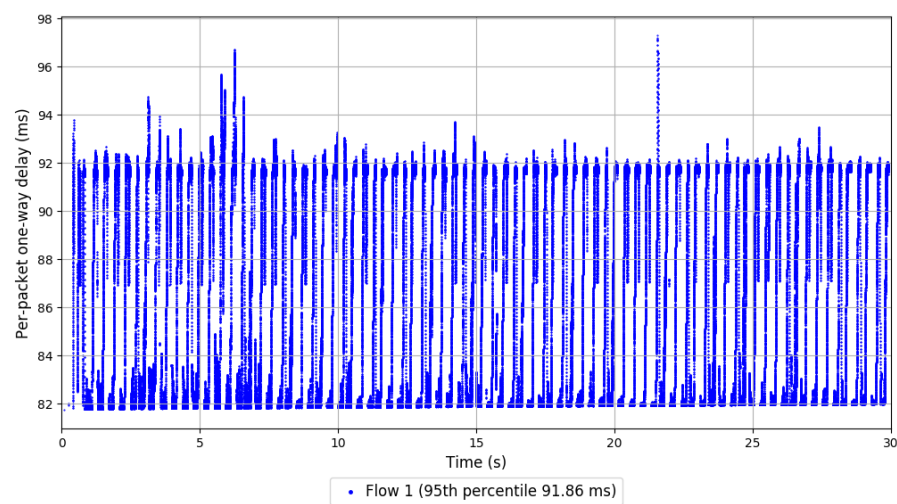
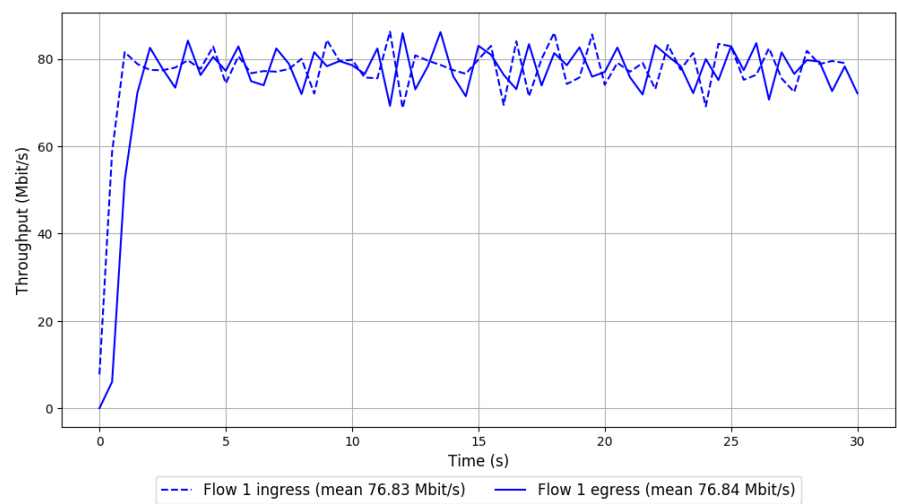
-- Flow 1:

Average throughput: 76.84 Mbit/s

95th percentile per-packet one-way delay: 91.856 ms

Loss rate: 0.53%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-07-18 01:23:21

End at: 2018-07-18 01:23:51

Local clock offset: -2.09 ms

Remote clock offset: 9.813 ms

Below is generated by plot.py at 2018-07-18 04:43:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.54 Mbit/s

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

Loss rate: 0.60%

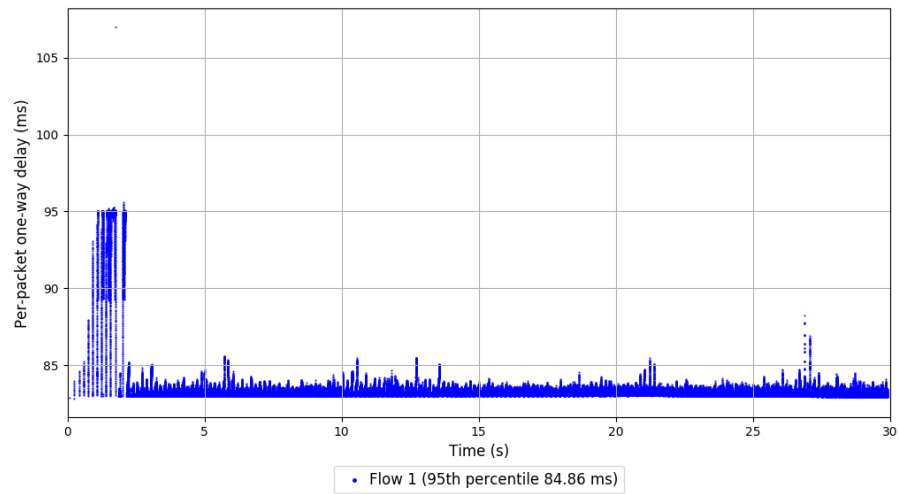
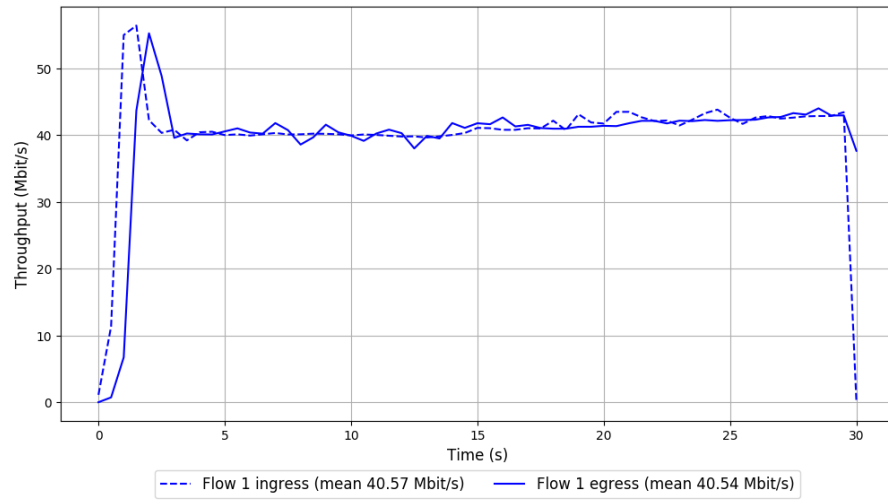
-- Flow 1:

Average throughput: 40.54 Mbit/s

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

Loss rate: 0.60%

Run 1: Report of TCP Vegas — Data Link

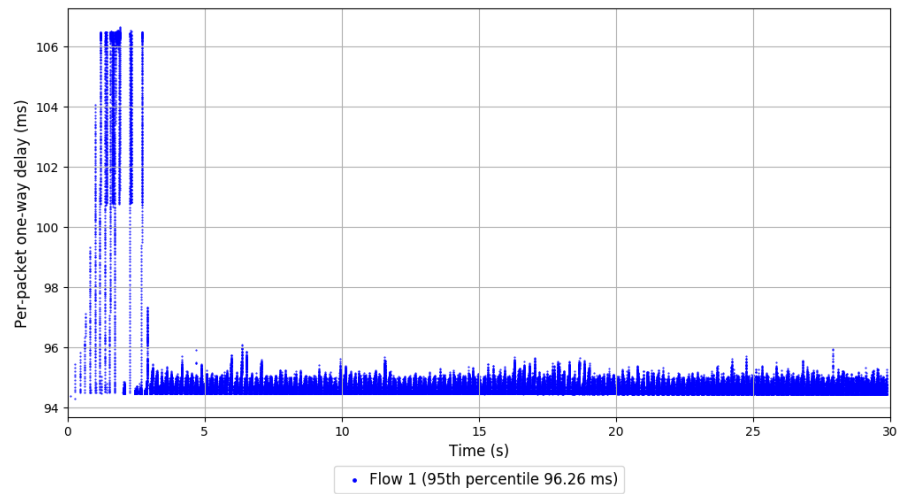
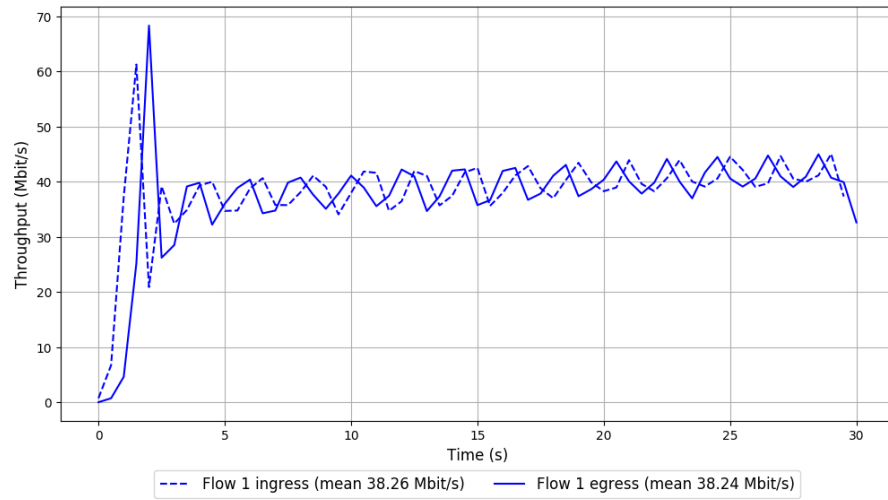


Run 2: Statistics of TCP Vegas

Start at: 2018-07-18 01:43:04
End at: 2018-07-18 01:43:34
Local clock offset: -2.416 ms
Remote clock offset: 9.849 ms

Below is generated by plot.py at 2018-07-18 04:43:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 38.24 Mbit/s
95th percentile per-packet one-way delay: 96.260 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 38.24 Mbit/s
95th percentile per-packet one-way delay: 96.260 ms
Loss rate: 0.67%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-07-18 02:02:51

End at: 2018-07-18 02:03:21

Local clock offset: -2.54 ms

Remote clock offset: 6.495 ms

Below is generated by plot.py at 2018-07-18 04:43:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.49 Mbit/s

95th percentile per-packet one-way delay: 83.329 ms

Loss rate: 0.58%

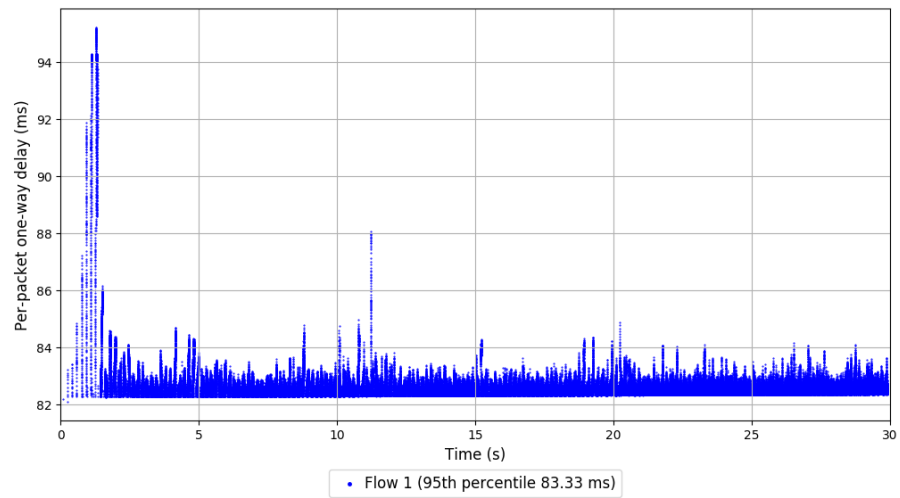
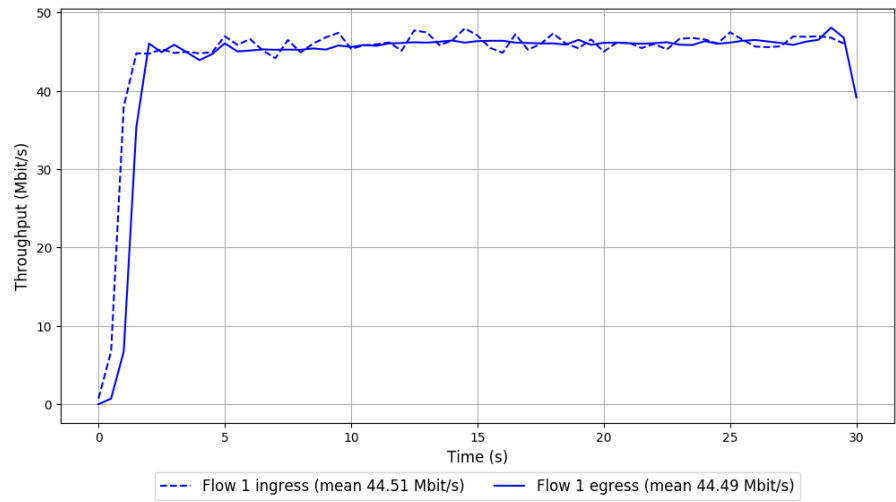
-- Flow 1:

Average throughput: 44.49 Mbit/s

95th percentile per-packet one-way delay: 83.329 ms

Loss rate: 0.58%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-07-18 02:22:34

End at: 2018-07-18 02:23:04

Local clock offset: -2.568 ms

Remote clock offset: 7.799 ms

Below is generated by plot.py at 2018-07-18 04:43:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.94 Mbit/s

95th percentile per-packet one-way delay: 86.342 ms

Loss rate: 0.64%

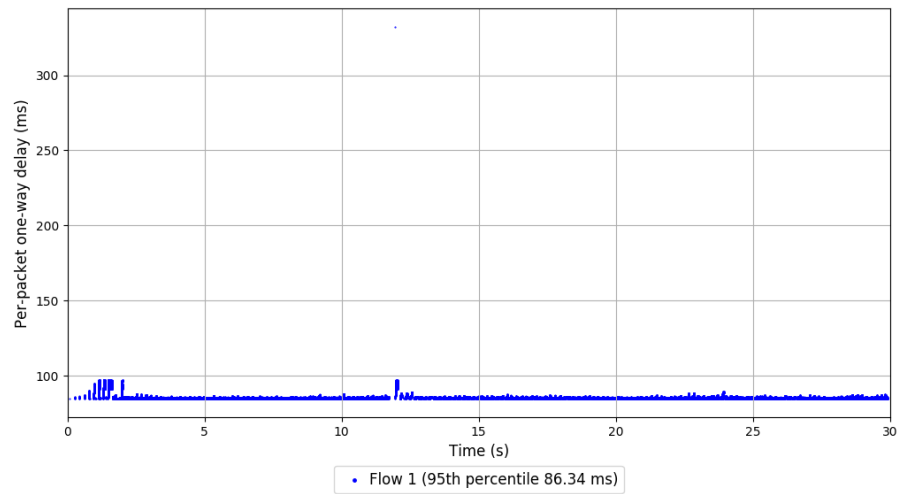
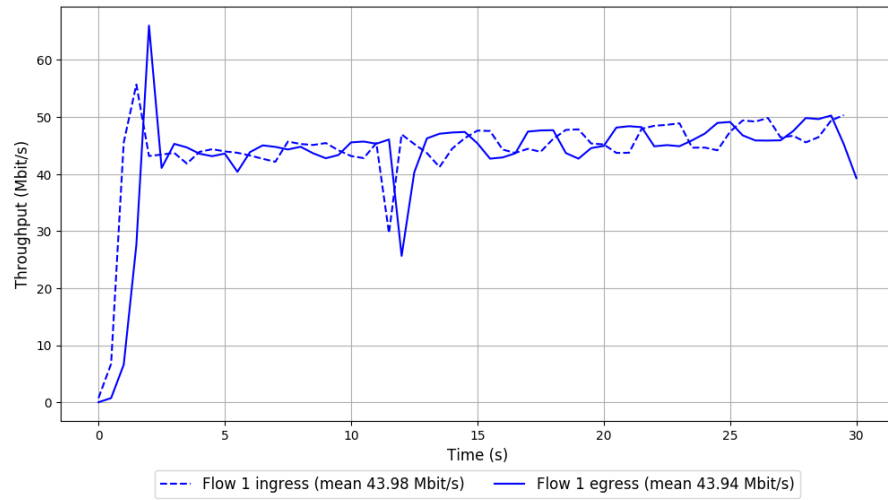
-- Flow 1:

Average throughput: 43.94 Mbit/s

95th percentile per-packet one-way delay: 86.342 ms

Loss rate: 0.64%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-07-18 02:42:19

End at: 2018-07-18 02:42:49

Local clock offset: -2.646 ms

Remote clock offset: 3.188 ms

Below is generated by plot.py at 2018-07-18 04:43:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.51 Mbit/s

95th percentile per-packet one-way delay: 86.442 ms

Loss rate: 0.61%

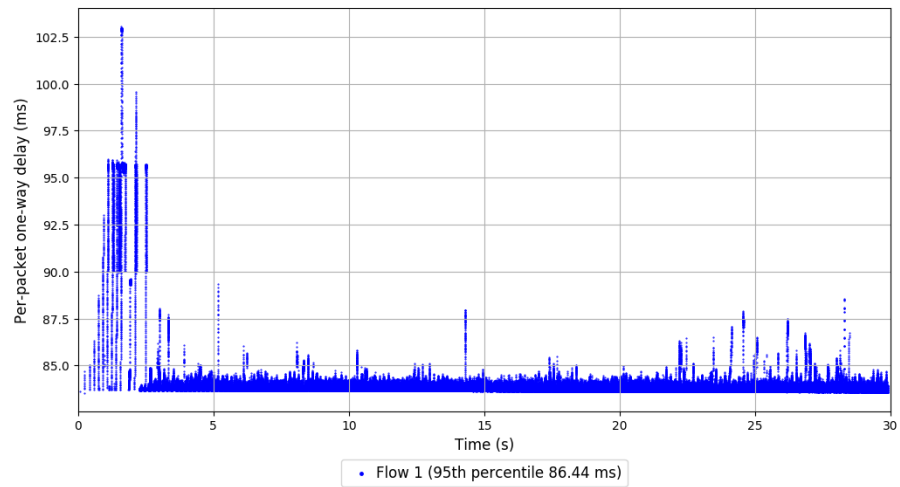
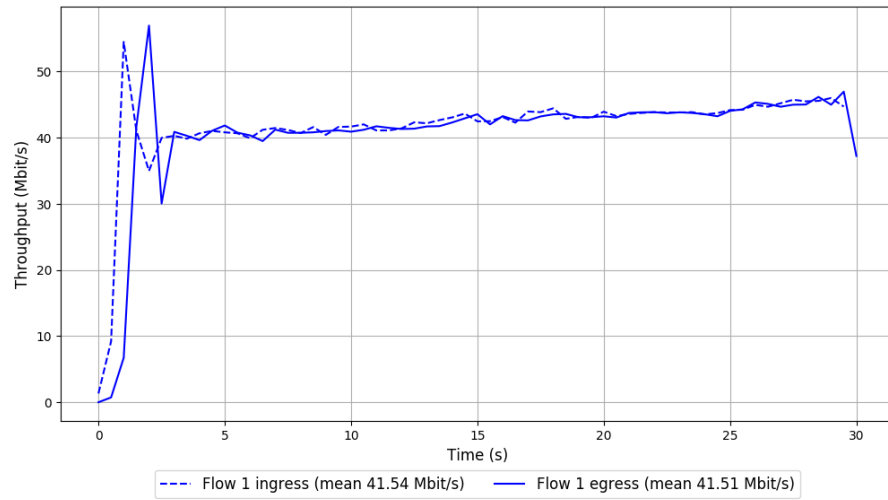
-- Flow 1:

Average throughput: 41.51 Mbit/s

95th percentile per-packet one-way delay: 86.442 ms

Loss rate: 0.61%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-07-18 03:02:09

End at: 2018-07-18 03:02:39

Local clock offset: -2.869 ms

Remote clock offset: 0.45 ms

Below is generated by plot.py at 2018-07-18 04:43:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.57 Mbit/s

95th percentile per-packet one-way delay: 86.700 ms

Loss rate: 0.59%

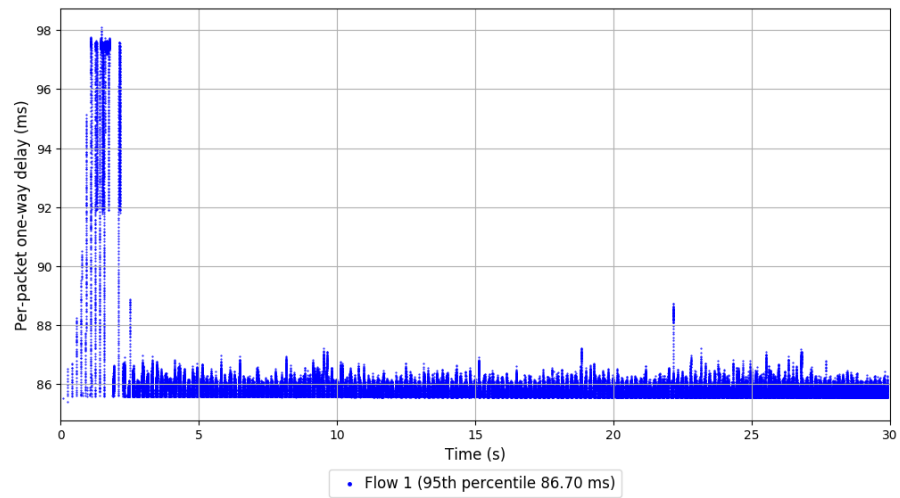
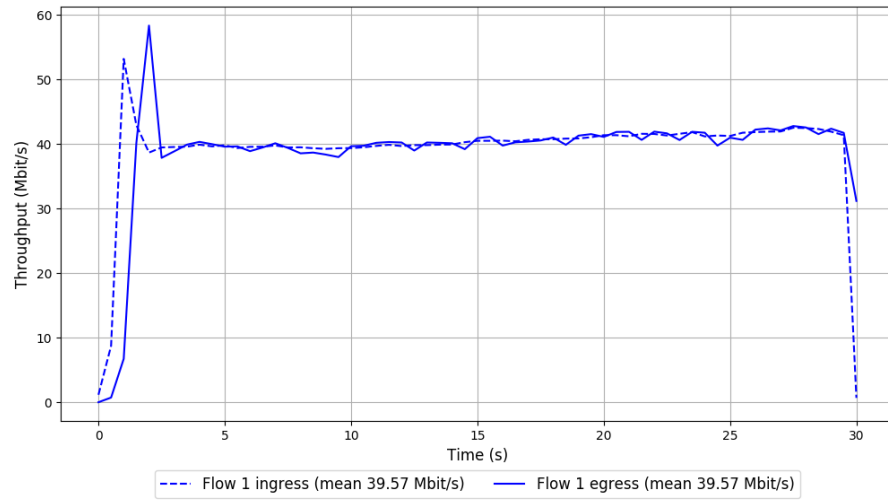
-- Flow 1:

Average throughput: 39.57 Mbit/s

95th percentile per-packet one-way delay: 86.700 ms

Loss rate: 0.59%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-18 03:22:05

End at: 2018-07-18 03:22:35

Local clock offset: -3.173 ms

Remote clock offset: 6.95 ms

Below is generated by plot.py at 2018-07-18 04:43:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.69 Mbit/s

95th percentile per-packet one-way delay: 84.390 ms

Loss rate: 0.57%

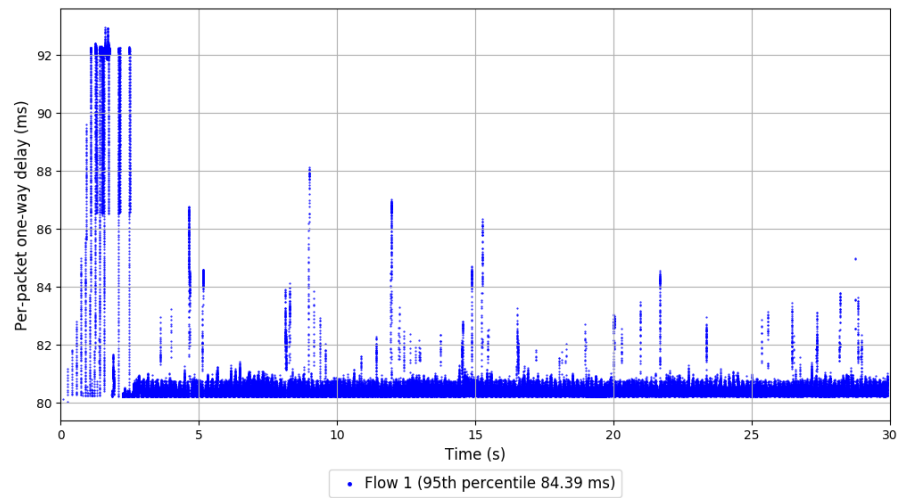
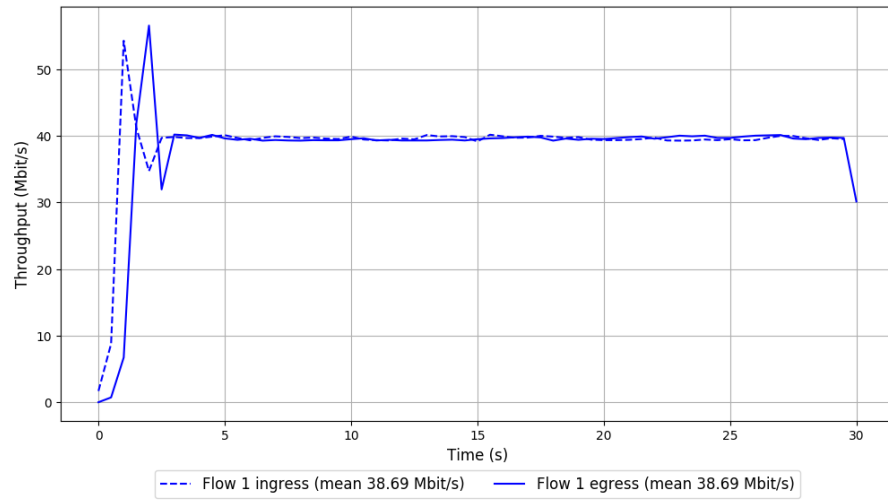
-- Flow 1:

Average throughput: 38.69 Mbit/s

95th percentile per-packet one-way delay: 84.390 ms

Loss rate: 0.57%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-07-18 03:41:58

End at: 2018-07-18 03:42:28

Local clock offset: -2.593 ms

Remote clock offset: 5.901 ms

Below is generated by plot.py at 2018-07-18 04:43:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.08 Mbit/s

95th percentile per-packet one-way delay: 81.246 ms

Loss rate: 0.92%

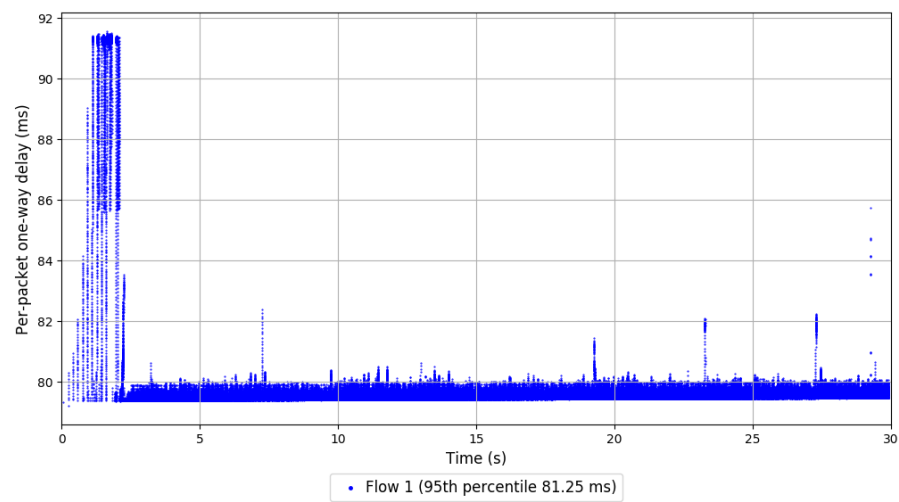
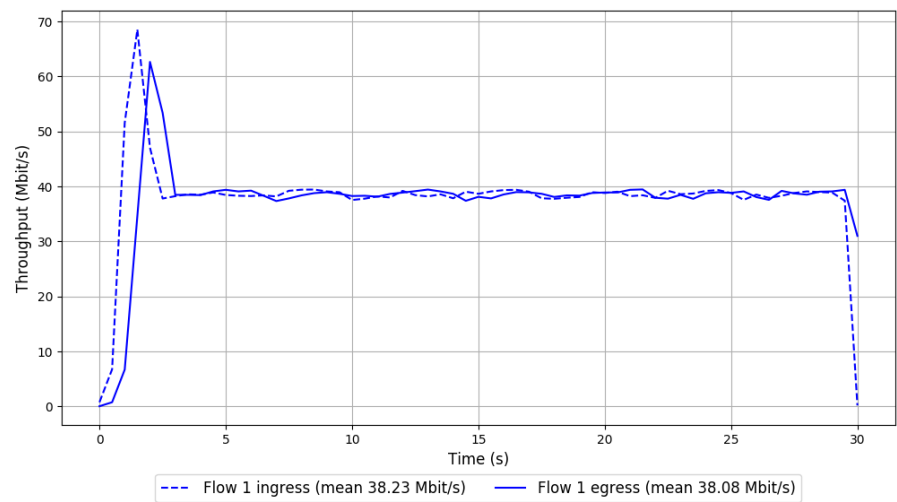
-- Flow 1:

Average throughput: 38.08 Mbit/s

95th percentile per-packet one-way delay: 81.246 ms

Loss rate: 0.92%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-07-18 04:01:47

End at: 2018-07-18 04:02:17

Local clock offset: -2.267 ms

Remote clock offset: 3.509 ms

Below is generated by plot.py at 2018-07-18 04:43:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.03 Mbit/s

95th percentile per-packet one-way delay: 86.298 ms

Loss rate: 0.65%

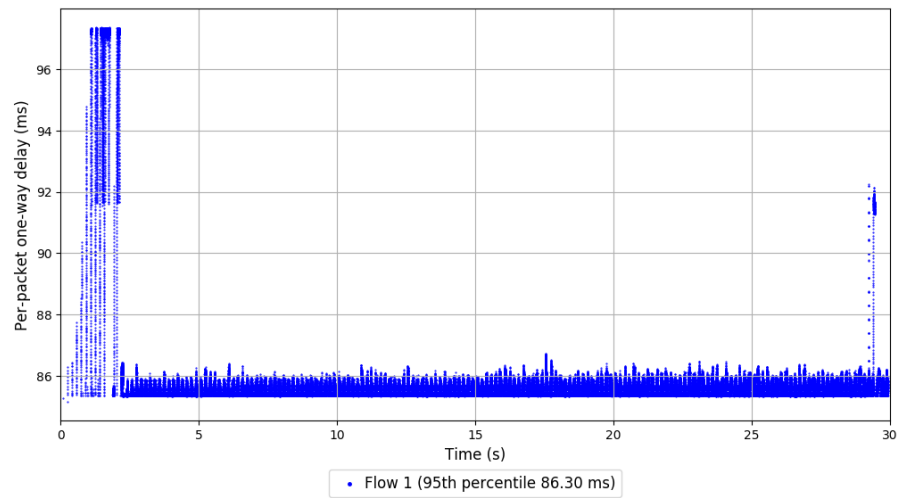
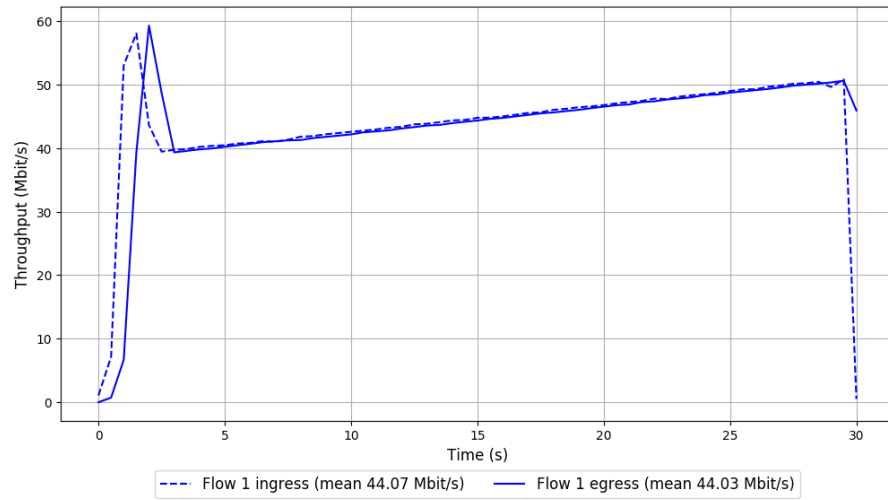
-- Flow 1:

Average throughput: 44.03 Mbit/s

95th percentile per-packet one-way delay: 86.298 ms

Loss rate: 0.65%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-18 04:21:38

End at: 2018-07-18 04:22:08

Local clock offset: -2.027 ms

Remote clock offset: 7.586 ms

Below is generated by plot.py at 2018-07-18 04:43:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.81 Mbit/s

95th percentile per-packet one-way delay: 87.102 ms

Loss rate: 0.64%

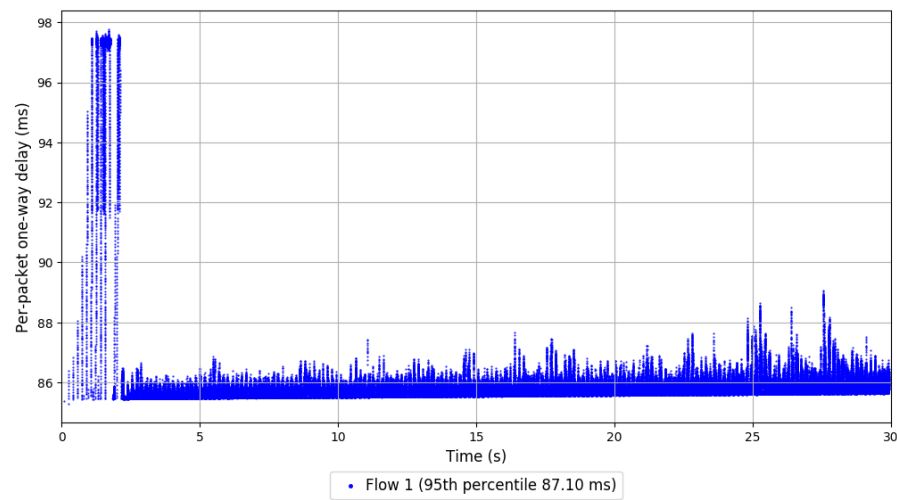
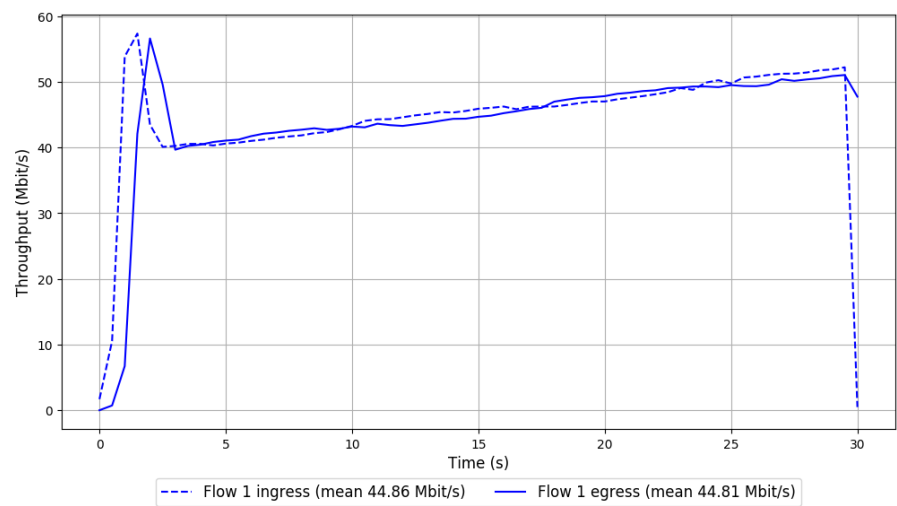
-- Flow 1:

Average throughput: 44.81 Mbit/s

95th percentile per-packet one-way delay: 87.102 ms

Loss rate: 0.64%

Run 10: Report of TCP Vegas — Data Link

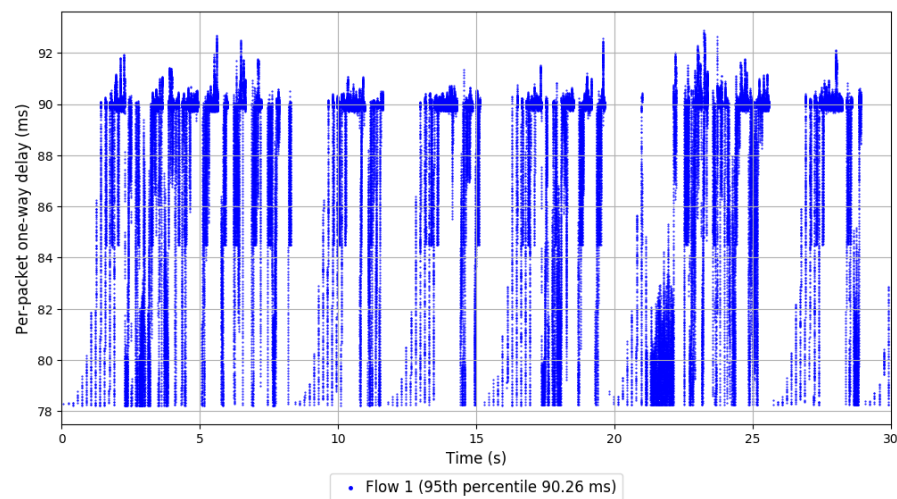
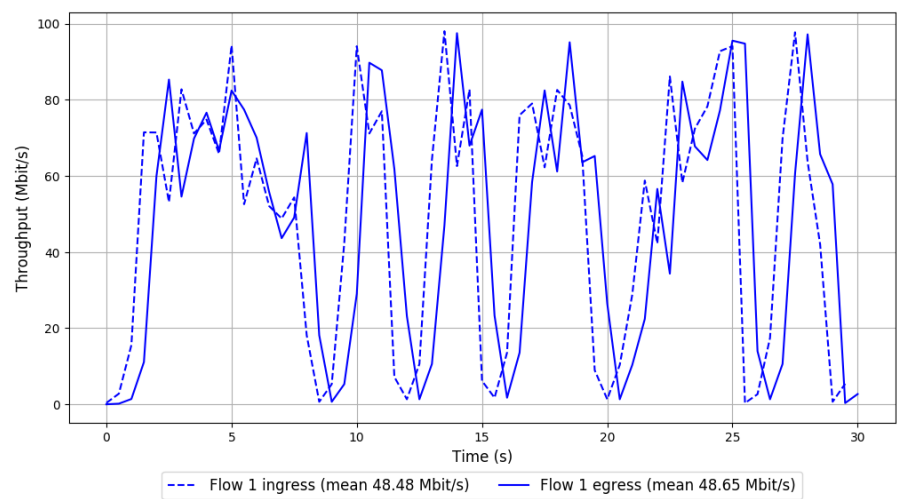


Run 1: Statistics of Verus

Start at: 2018-07-18 01:16:20
End at: 2018-07-18 01:16:50
Local clock offset: -2.247 ms
Remote clock offset: 14.063 ms

Below is generated by plot.py at 2018-07-18 04:43:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 48.65 Mbit/s
95th percentile per-packet one-way delay: 90.256 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 48.65 Mbit/s
95th percentile per-packet one-way delay: 90.256 ms
Loss rate: 0.19%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-07-18 01:36:03

End at: 2018-07-18 01:36:33

Local clock offset: -2.391 ms

Remote clock offset: 5.596 ms

Below is generated by plot.py at 2018-07-18 04:43:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.47 Mbit/s

95th percentile per-packet one-way delay: 94.899 ms

Loss rate: 9.36%

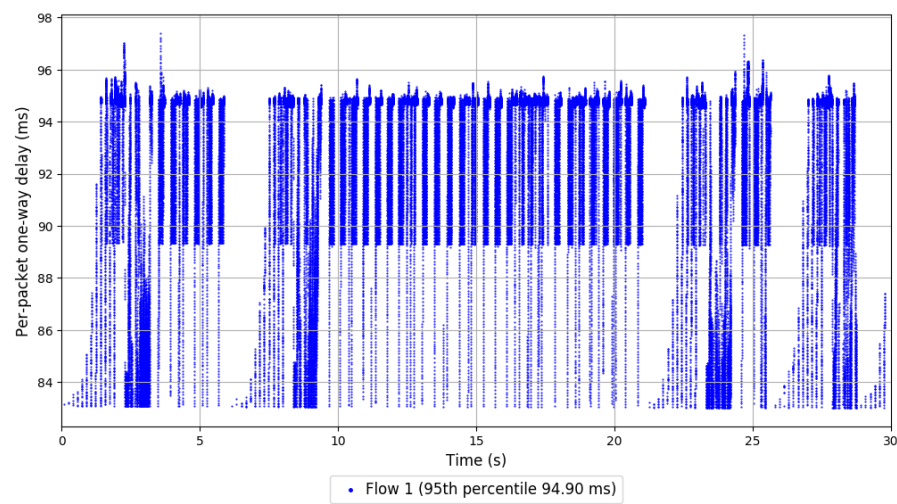
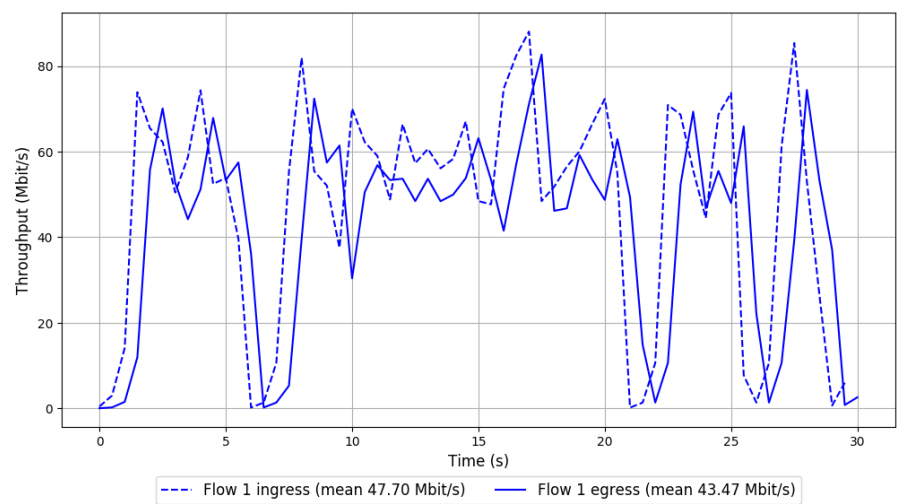
-- Flow 1:

Average throughput: 43.47 Mbit/s

95th percentile per-packet one-way delay: 94.899 ms

Loss rate: 9.36%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-07-18 01:55:49

End at: 2018-07-18 01:56:19

Local clock offset: -2.307 ms

Remote clock offset: 9.427 ms

Below is generated by plot.py at 2018-07-18 04:43:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.49 Mbit/s

95th percentile per-packet one-way delay: 92.104 ms

Loss rate: 0.65%

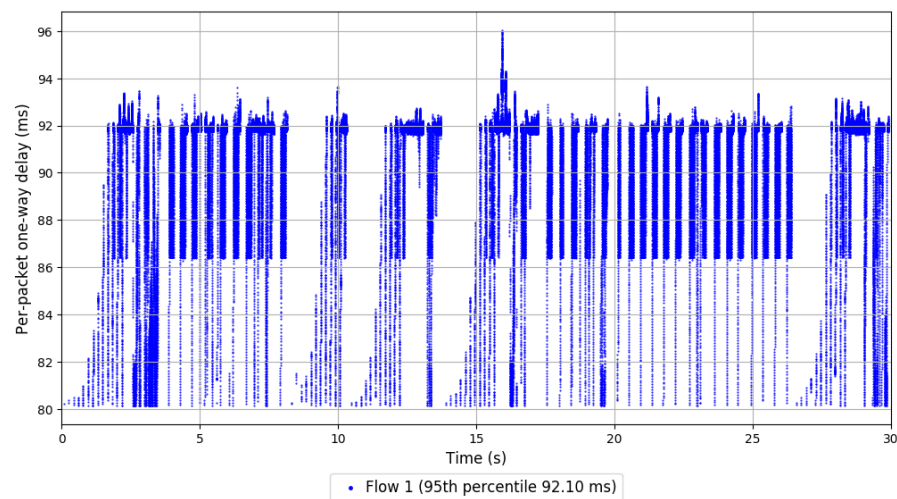
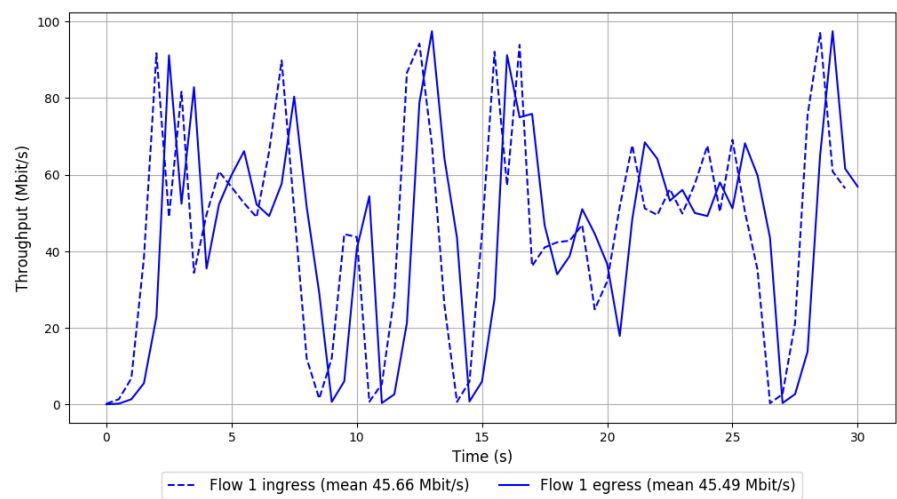
-- Flow 1:

Average throughput: 45.49 Mbit/s

95th percentile per-packet one-way delay: 92.104 ms

Loss rate: 0.65%

Run 3: Report of Verus — Data Link

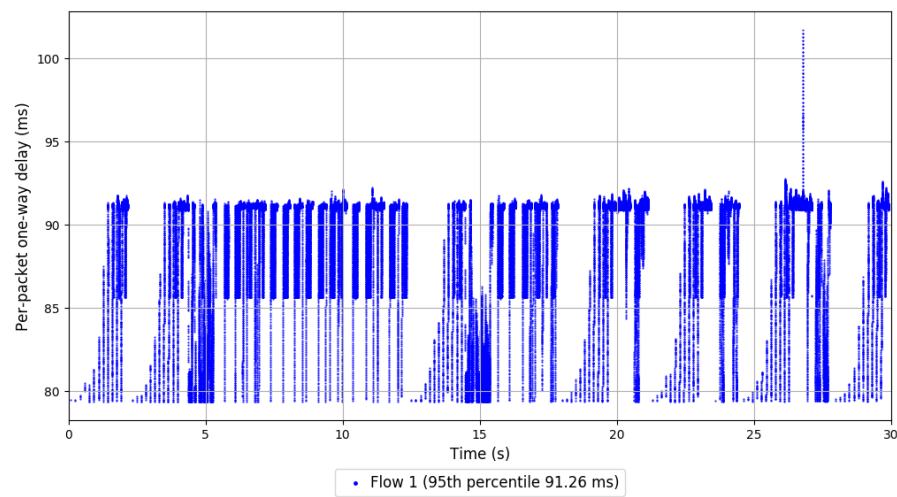
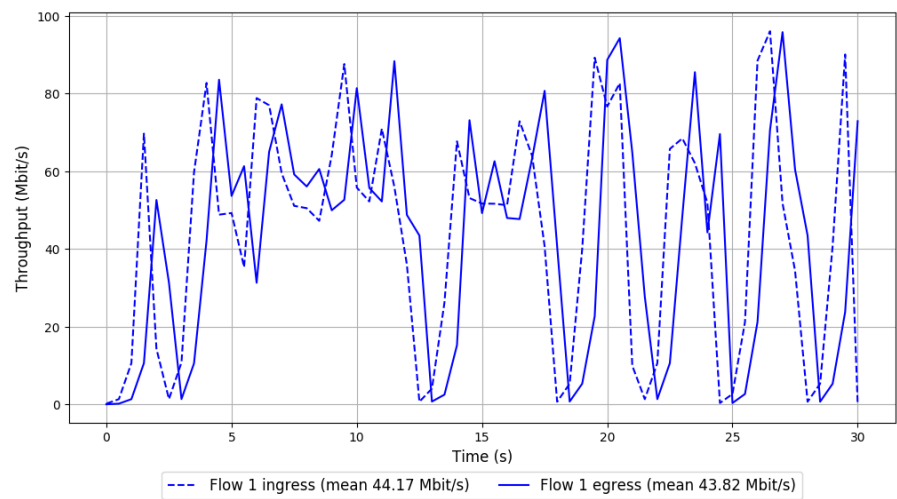


Run 4: Statistics of Verus

Start at: 2018-07-18 02:15:32
End at: 2018-07-18 02:16:02
Local clock offset: -2.575 ms
Remote clock offset: 10.675 ms

Below is generated by plot.py at 2018-07-18 04:43:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 43.82 Mbit/s
95th percentile per-packet one-way delay: 91.259 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 43.82 Mbit/s
95th percentile per-packet one-way delay: 91.259 ms
Loss rate: 1.34%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-07-18 02:35:20

End at: 2018-07-18 02:35:50

Local clock offset: -2.705 ms

Remote clock offset: 9.282 ms

Below is generated by plot.py at 2018-07-18 04:43:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.87 Mbit/s

95th percentile per-packet one-way delay: 93.351 ms

Loss rate: 0.12%

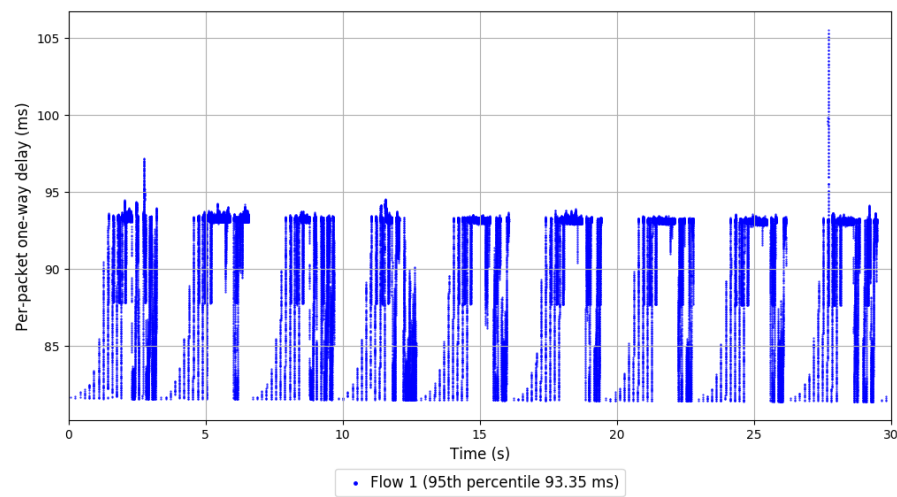
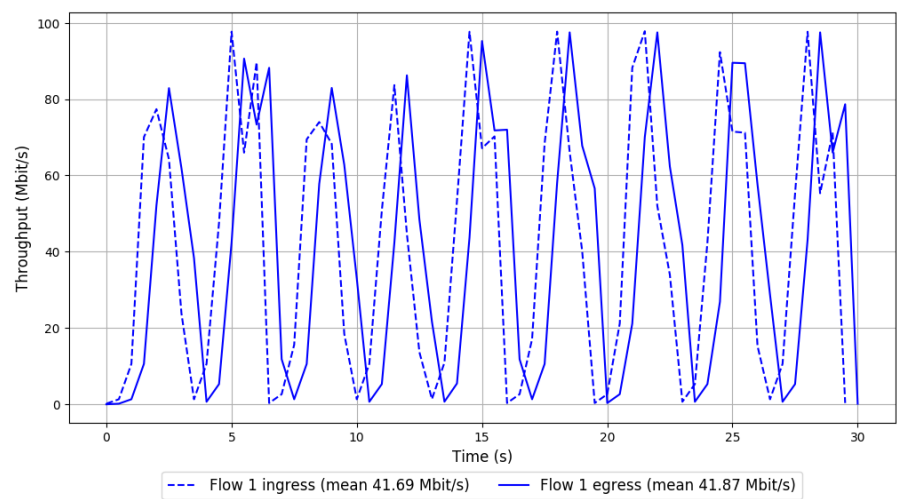
-- Flow 1:

Average throughput: 41.87 Mbit/s

95th percentile per-packet one-way delay: 93.351 ms

Loss rate: 0.12%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-07-18 02:55:07

End at: 2018-07-18 02:55:37

Local clock offset: -2.581 ms

Remote clock offset: 6.082 ms

Below is generated by plot.py at 2018-07-18 04:43:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.43 Mbit/s

95th percentile per-packet one-way delay: 92.831 ms

Loss rate: 0.94%

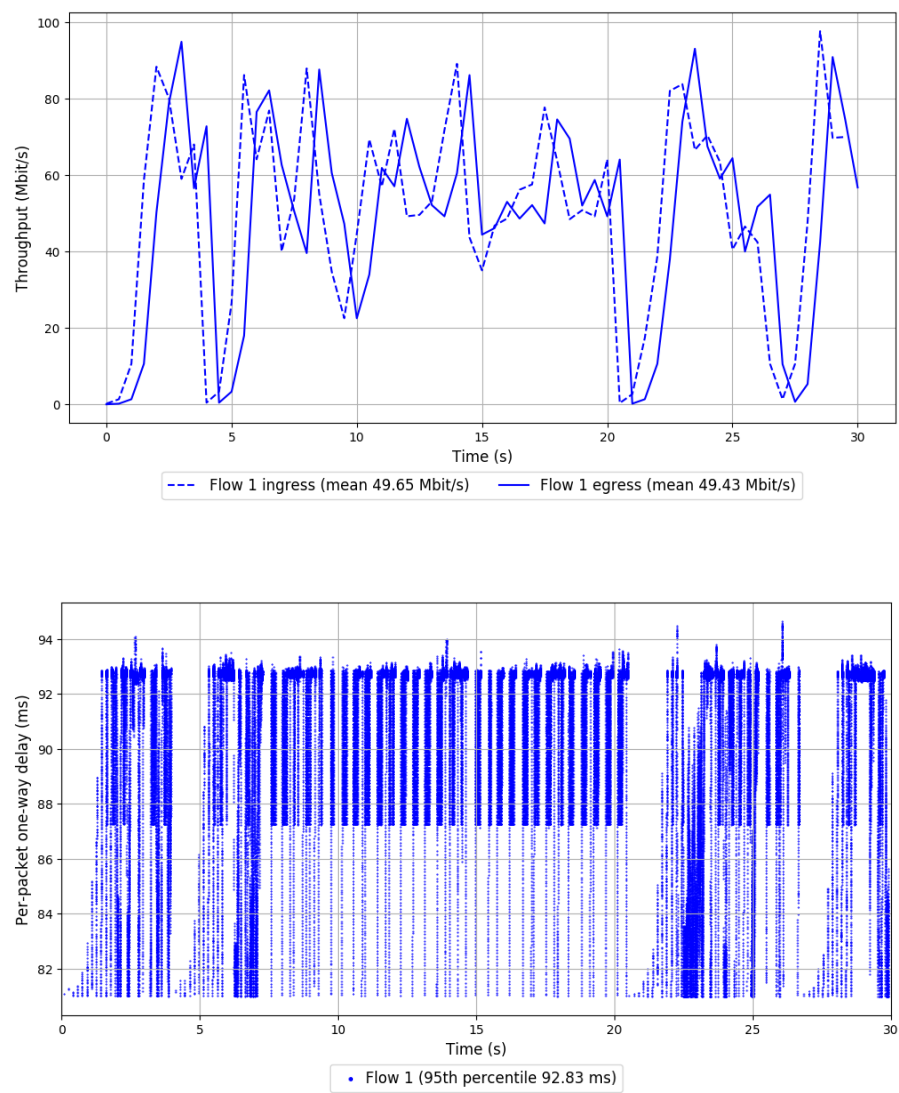
-- Flow 1:

Average throughput: 49.43 Mbit/s

95th percentile per-packet one-way delay: 92.831 ms

Loss rate: 0.94%

Run 6: Report of Verus — Data Link

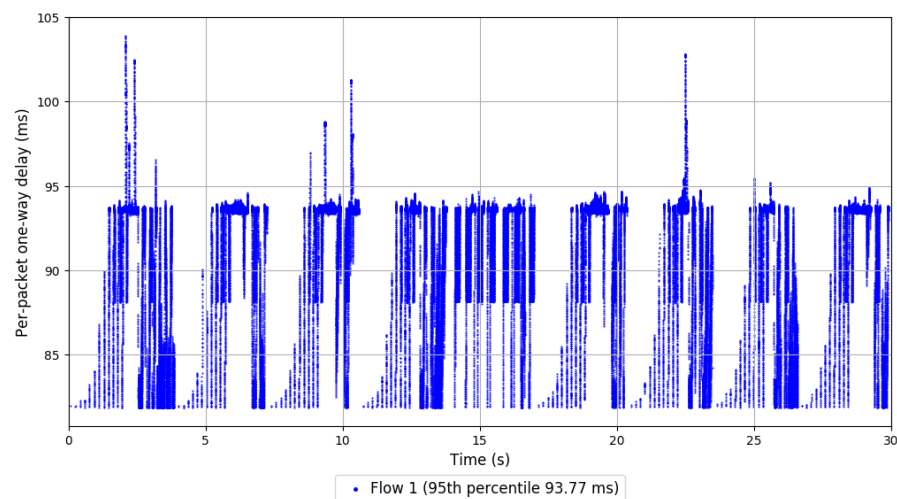
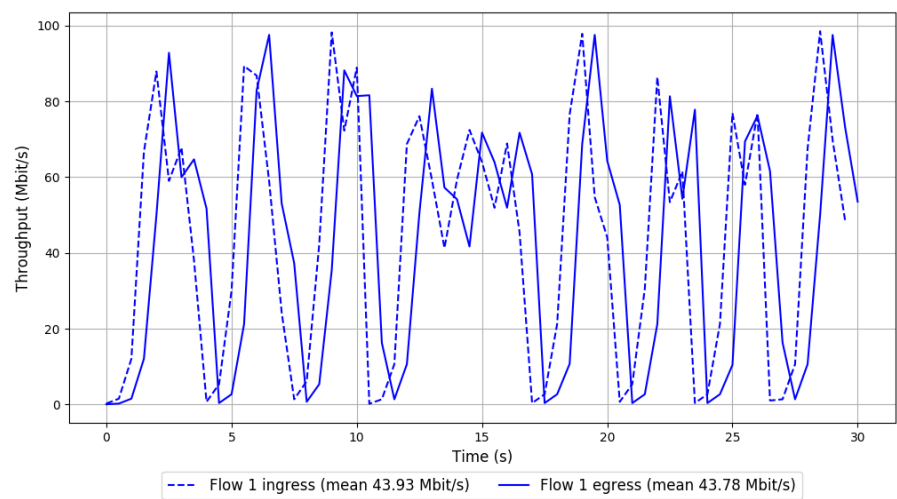


Run 7: Statistics of Verus

Start at: 2018-07-18 03:15:03
End at: 2018-07-18 03:15:33
Local clock offset: -3.065 ms
Remote clock offset: 5.179 ms

Below is generated by plot.py at 2018-07-18 04:44:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 43.78 Mbit/s
95th percentile per-packet one-way delay: 93.772 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 43.78 Mbit/s
95th percentile per-packet one-way delay: 93.772 ms
Loss rate: 0.46%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-07-18 03:34:56

End at: 2018-07-18 03:35:26

Local clock offset: -2.778 ms

Remote clock offset: 7.909 ms

Below is generated by plot.py at 2018-07-18 04:44:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.39 Mbit/s

95th percentile per-packet one-way delay: 90.917 ms

Loss rate: 0.36%

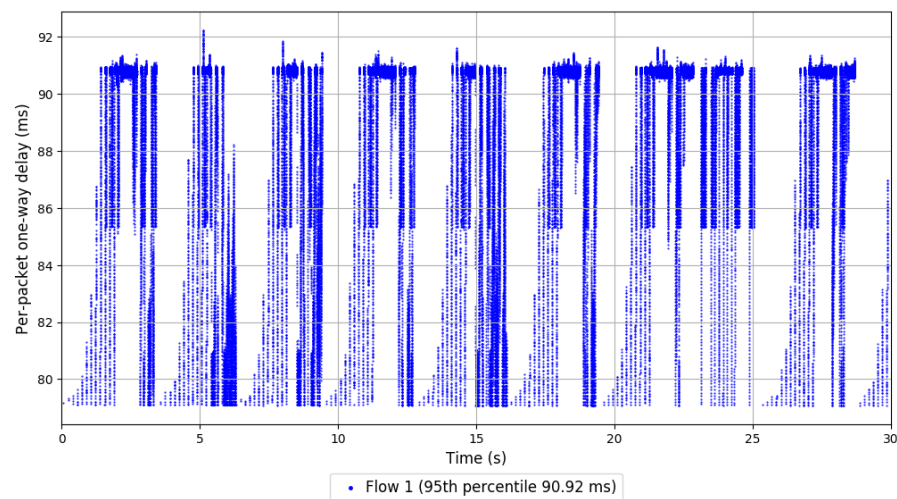
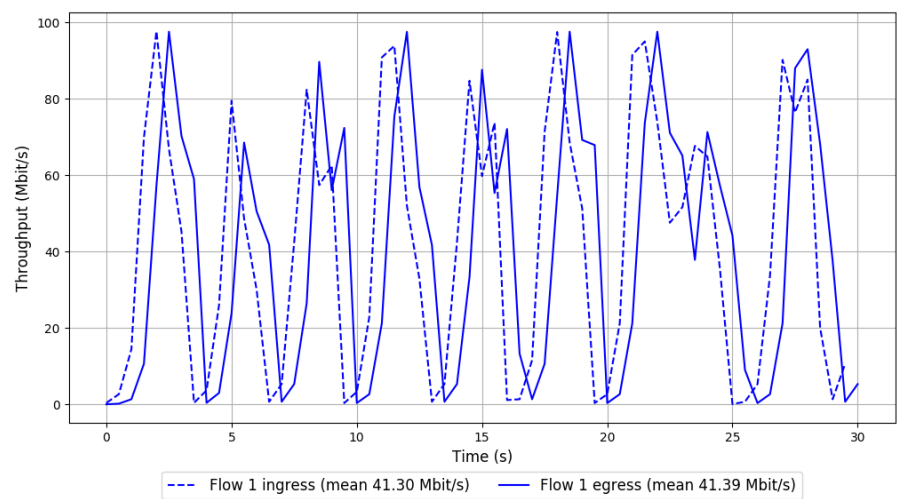
-- Flow 1:

Average throughput: 41.39 Mbit/s

95th percentile per-packet one-way delay: 90.917 ms

Loss rate: 0.36%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-07-18 03:54:45

End at: 2018-07-18 03:55:15

Local clock offset: -2.476 ms

Remote clock offset: 7.253 ms

Below is generated by plot.py at 2018-07-18 04:44:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.80 Mbit/s

95th percentile per-packet one-way delay: 90.850 ms

Loss rate: 1.03%

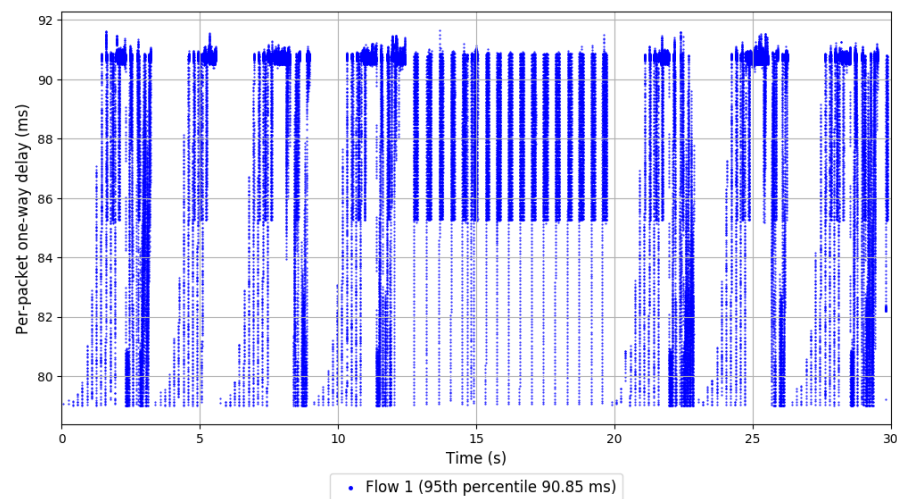
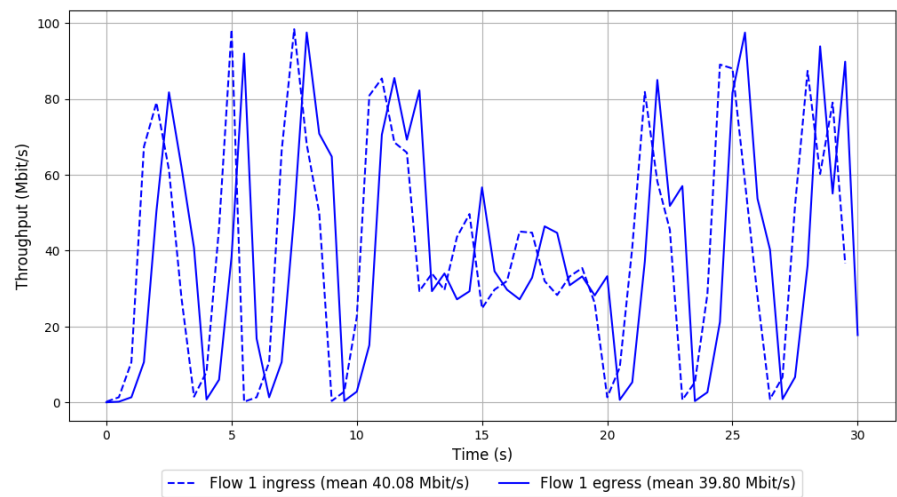
-- Flow 1:

Average throughput: 39.80 Mbit/s

95th percentile per-packet one-way delay: 90.850 ms

Loss rate: 1.03%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-07-18 04:14:36

End at: 2018-07-18 04:15:06

Local clock offset: -2.028 ms

Remote clock offset: 3.664 ms

Below is generated by plot.py at 2018-07-18 04:44:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.22 Mbit/s

95th percentile per-packet one-way delay: 95.679 ms

Loss rate: 0.85%

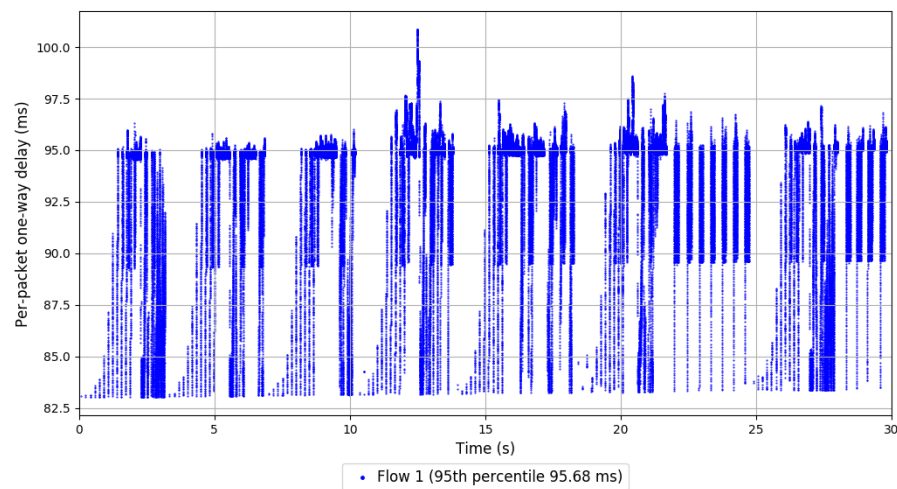
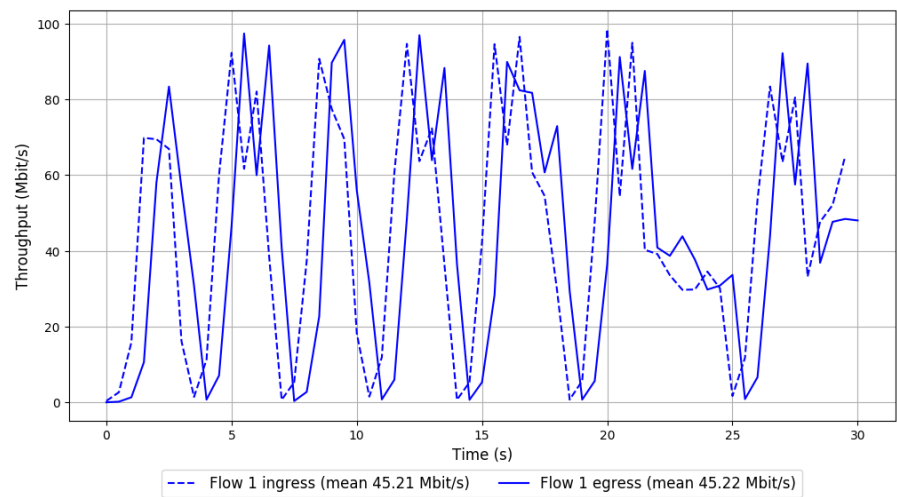
-- Flow 1:

Average throughput: 45.22 Mbit/s

95th percentile per-packet one-way delay: 95.679 ms

Loss rate: 0.85%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-07-18 01:12:51

End at: 2018-07-18 01:13:21

Local clock offset: -2.295 ms

Remote clock offset: 8.816 ms

Below is generated by plot.py at 2018-07-18 04:44:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.07 Mbit/s

95th percentile per-packet one-way delay: 83.414 ms

Loss rate: 0.99%

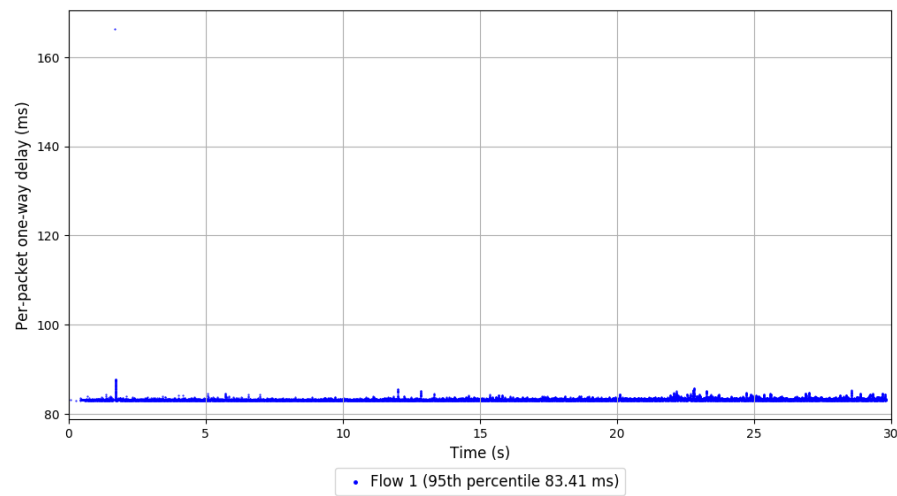
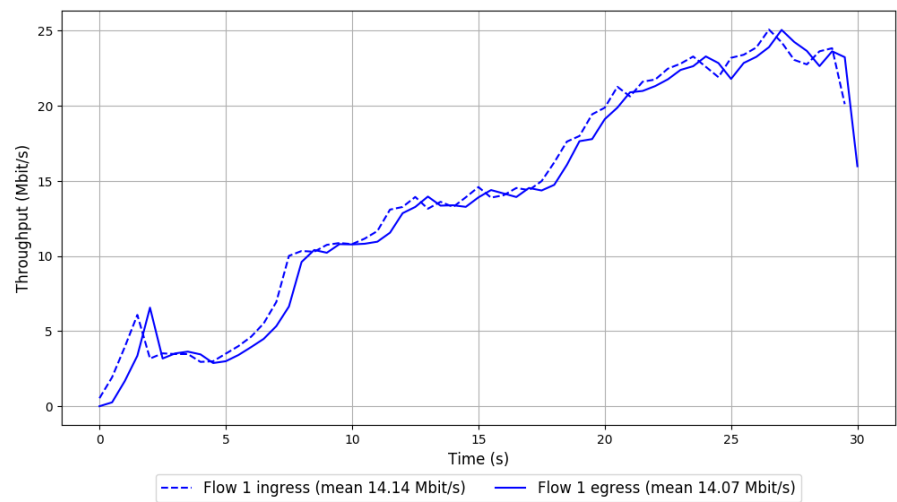
-- Flow 1:

Average throughput: 14.07 Mbit/s

95th percentile per-packet one-way delay: 83.414 ms

Loss rate: 0.99%

Run 1: Report of PCC-Vivace — Data Link

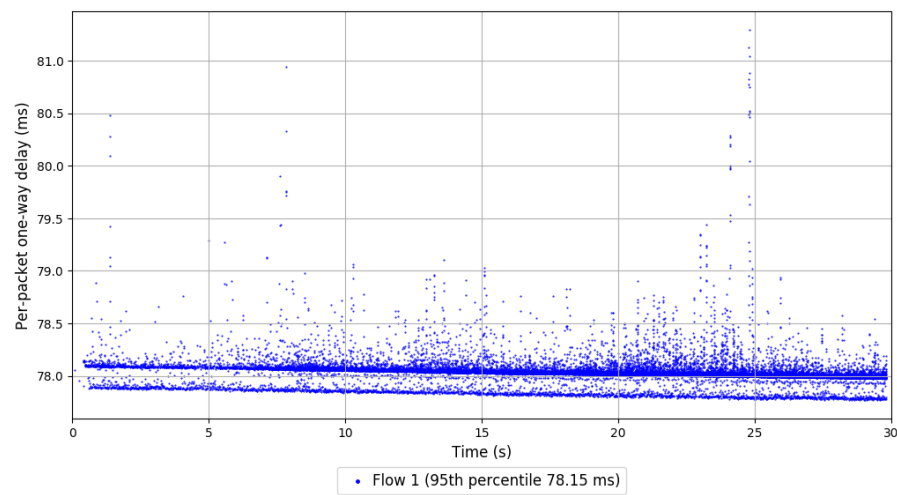
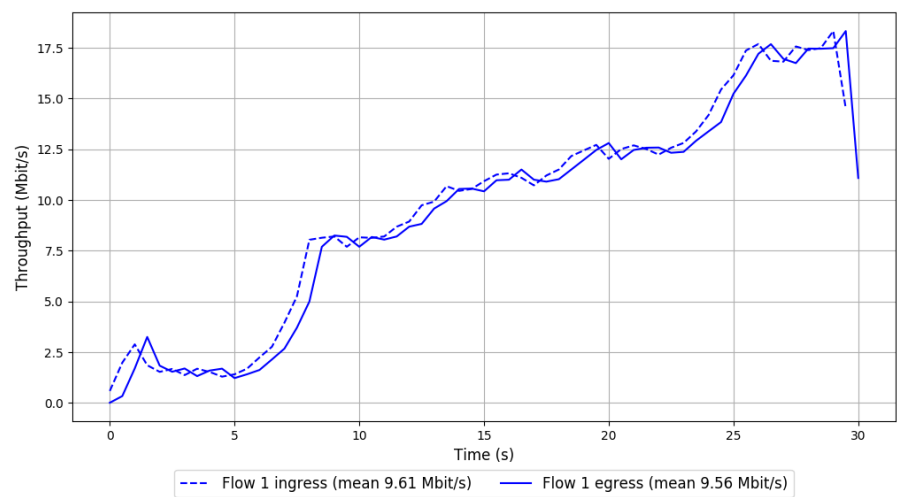


Run 2: Statistics of PCC-Vivace

Start at: 2018-07-18 01:32:34
End at: 2018-07-18 01:33:04
Local clock offset: -2.357 ms
Remote clock offset: 11.246 ms

Below is generated by plot.py at 2018-07-18 04:44:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.56 Mbit/s
95th percentile per-packet one-way delay: 78.154 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 9.56 Mbit/s
95th percentile per-packet one-way delay: 78.154 ms
Loss rate: 1.07%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-07-18 01:52:20

End at: 2018-07-18 01:52:50

Local clock offset: -2.335 ms

Remote clock offset: 5.584 ms

Below is generated by plot.py at 2018-07-18 04:44:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.48 Mbit/s

95th percentile per-packet one-way delay: 84.291 ms

Loss rate: 1.00%

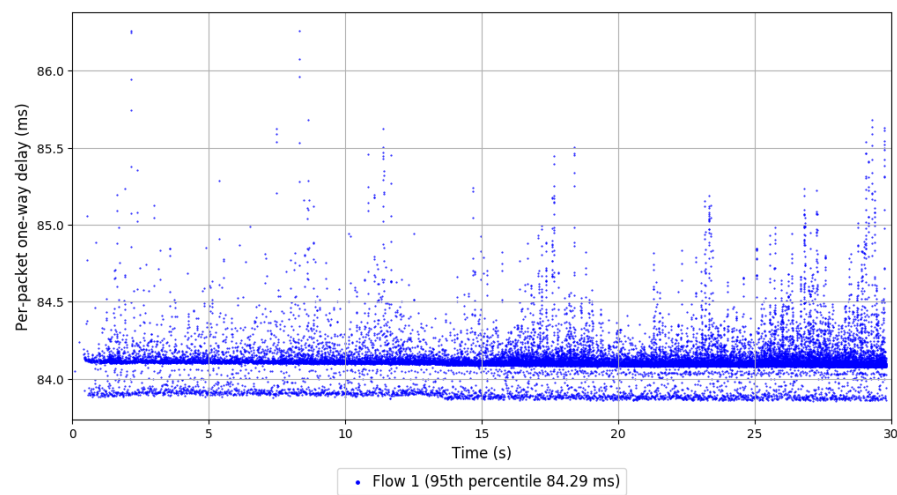
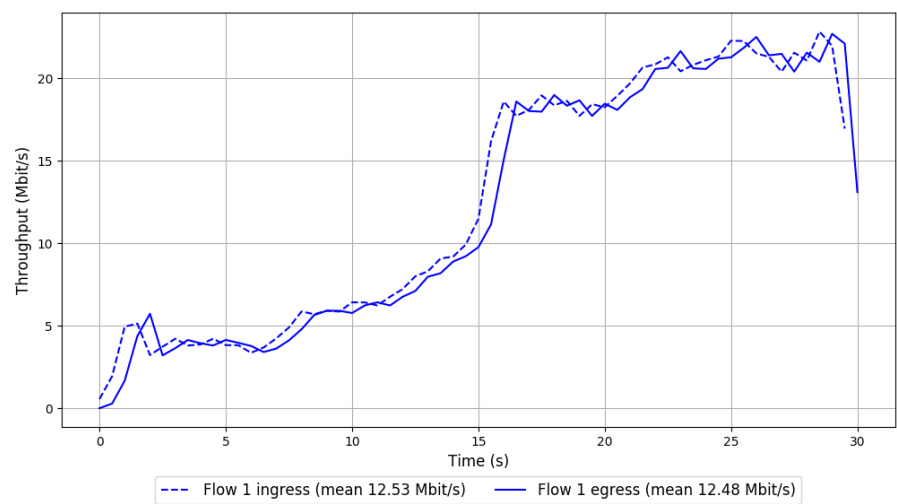
-- Flow 1:

Average throughput: 12.48 Mbit/s

95th percentile per-packet one-way delay: 84.291 ms

Loss rate: 1.00%

Run 3: Report of PCC-Vivace — Data Link

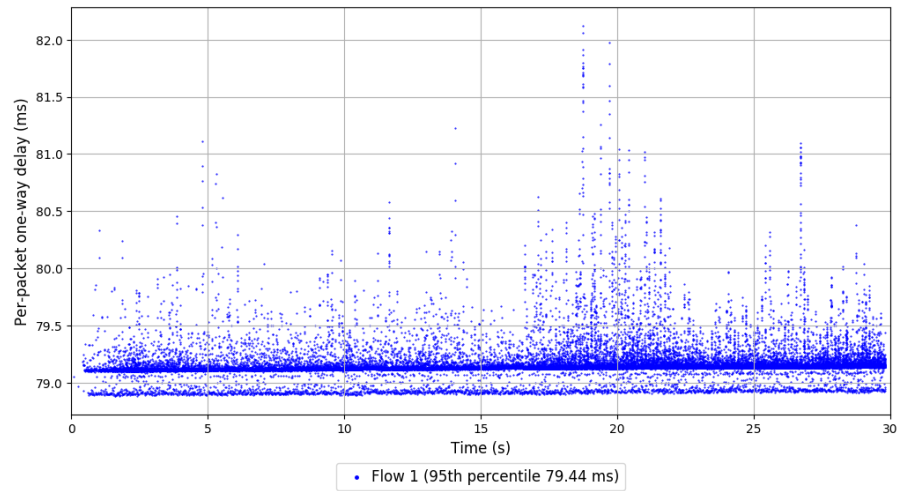
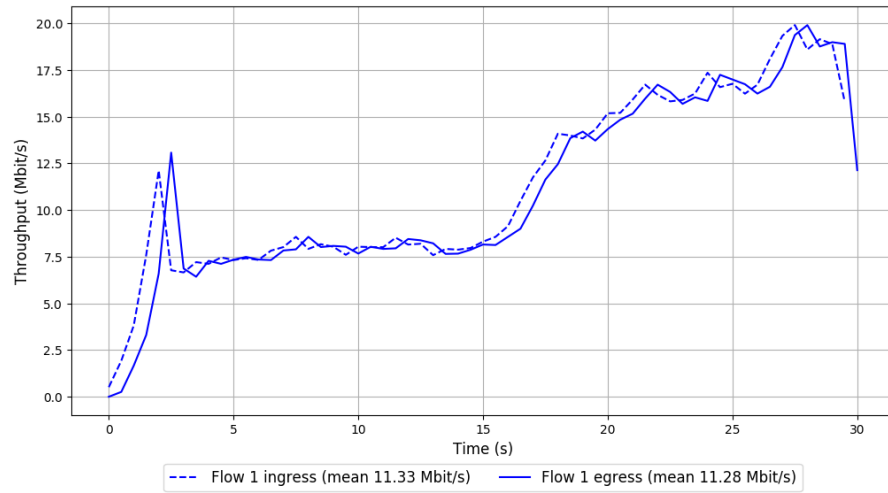


Run 4: Statistics of PCC-Vivace

Start at: 2018-07-18 02:12:02
End at: 2018-07-18 02:12:32
Local clock offset: -2.642 ms
Remote clock offset: 12.715 ms

Below is generated by plot.py at 2018-07-18 04:44:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 11.28 Mbit/s
95th percentile per-packet one-way delay: 79.437 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 11.28 Mbit/s
95th percentile per-packet one-way delay: 79.437 ms
Loss rate: 0.98%

Run 4: Report of PCC-Vivace — Data Link

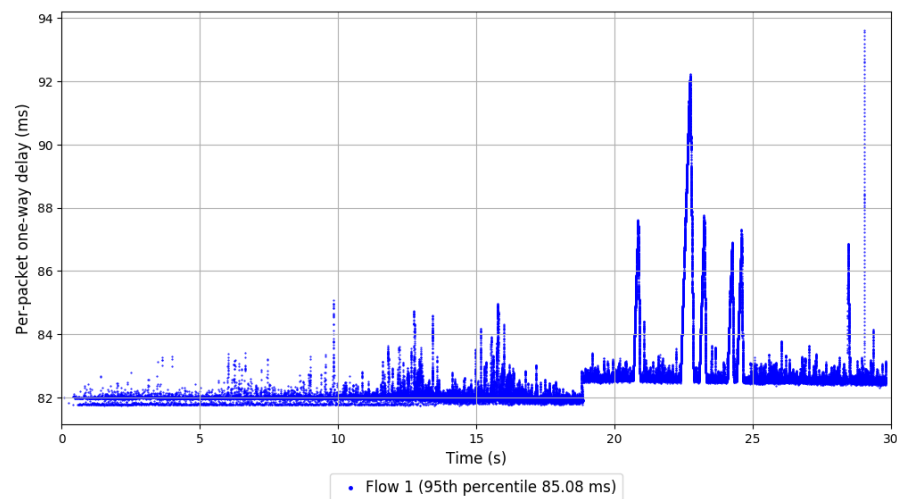
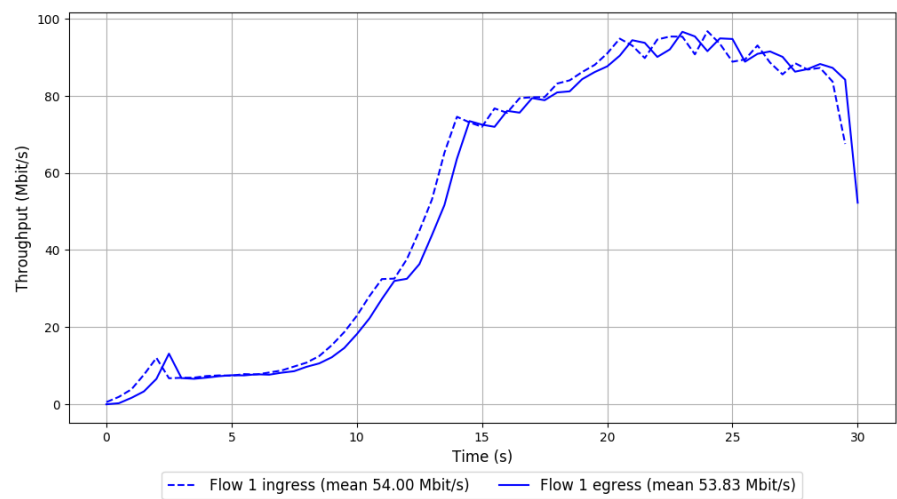


Run 5: Statistics of PCC-Vivace

Start at: 2018-07-18 02:31:48
End at: 2018-07-18 02:32:18
Local clock offset: -2.612 ms
Remote clock offset: 10.905 ms

Below is generated by plot.py at 2018-07-18 04:44:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 53.83 Mbit/s
95th percentile per-packet one-way delay: 85.082 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 53.83 Mbit/s
95th percentile per-packet one-way delay: 85.082 ms
Loss rate: 0.88%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-07-18 02:51:37

End at: 2018-07-18 02:52:07

Local clock offset: -2.588 ms

Remote clock offset: 1.539 ms

Below is generated by plot.py at 2018-07-18 04:44:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.85 Mbit/s

95th percentile per-packet one-way delay: 95.045 ms

Loss rate: 1.41%

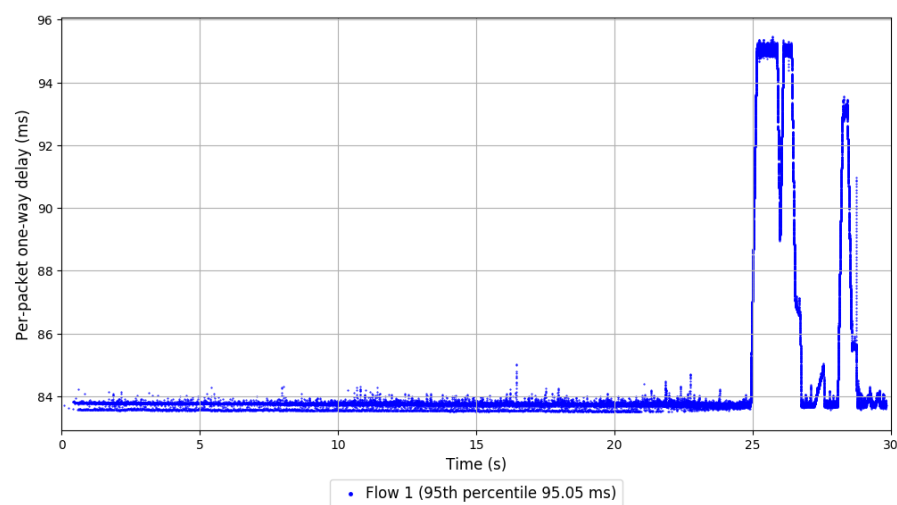
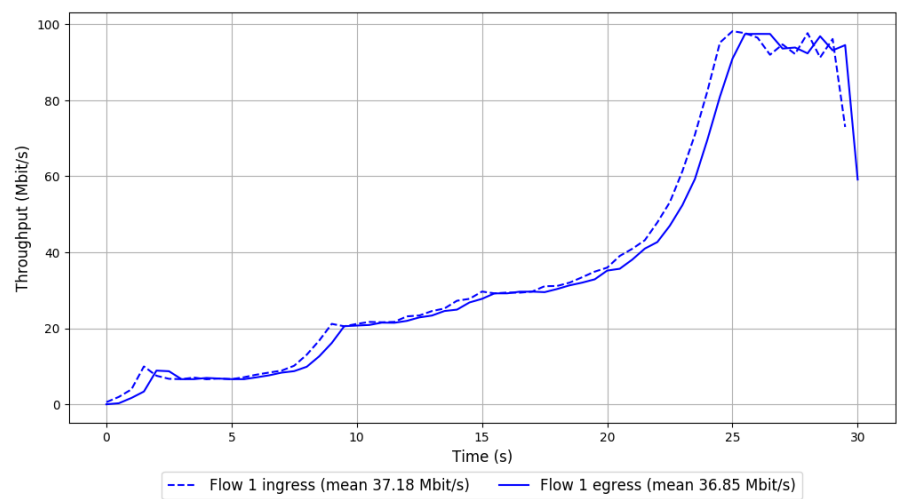
-- Flow 1:

Average throughput: 36.85 Mbit/s

95th percentile per-packet one-way delay: 95.045 ms

Loss rate: 1.41%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-07-18 03:11:30

End at: 2018-07-18 03:12:00

Local clock offset: -3.026 ms

Remote clock offset: 6.054 ms

Below is generated by plot.py at 2018-07-18 04:44:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.59 Mbit/s

95th percentile per-packet one-way delay: 80.976 ms

Loss rate: 0.74%

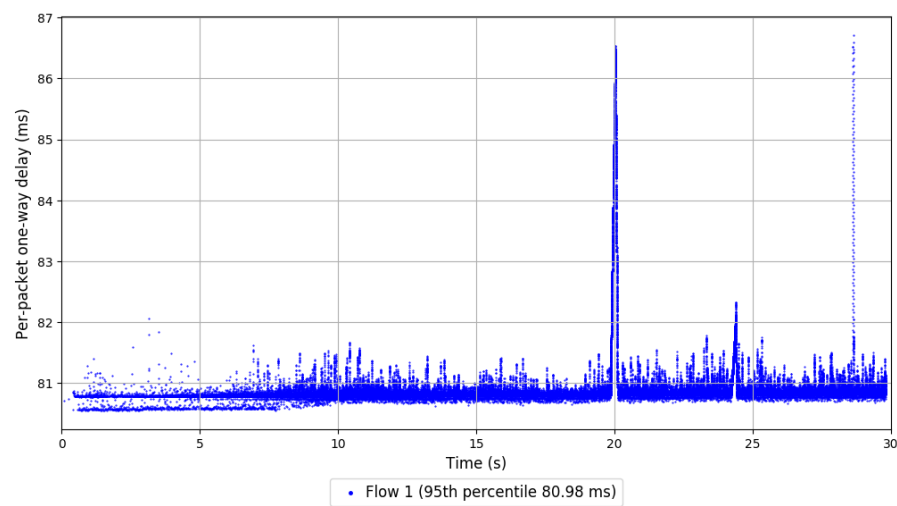
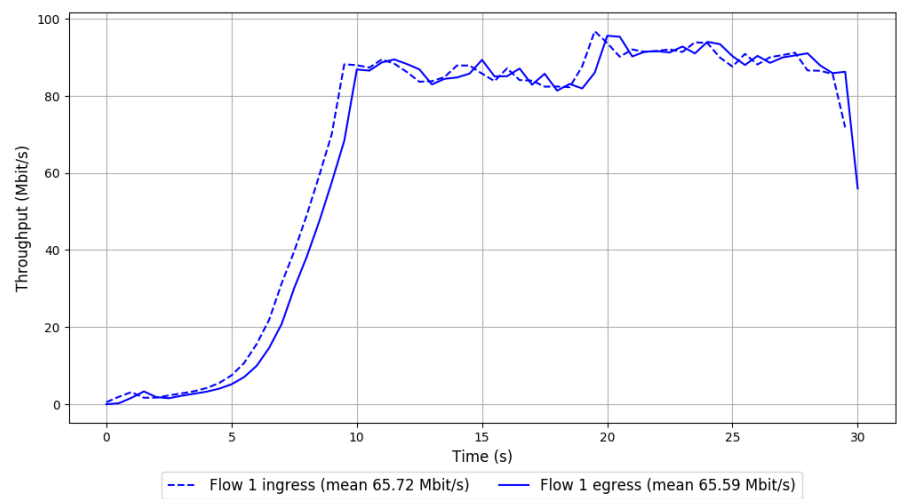
-- Flow 1:

Average throughput: 65.59 Mbit/s

95th percentile per-packet one-way delay: 80.976 ms

Loss rate: 0.74%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-18 03:31:23

End at: 2018-07-18 03:31:53

Local clock offset: -2.826 ms

Remote clock offset: 1.904 ms

Below is generated by plot.py at 2018-07-18 04:44:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.13 Mbit/s

95th percentile per-packet one-way delay: 96.467 ms

Loss rate: 0.92%

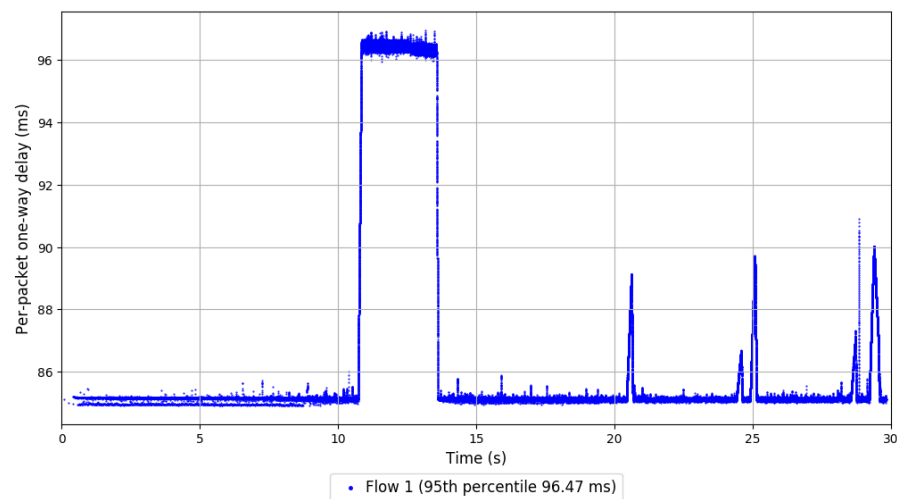
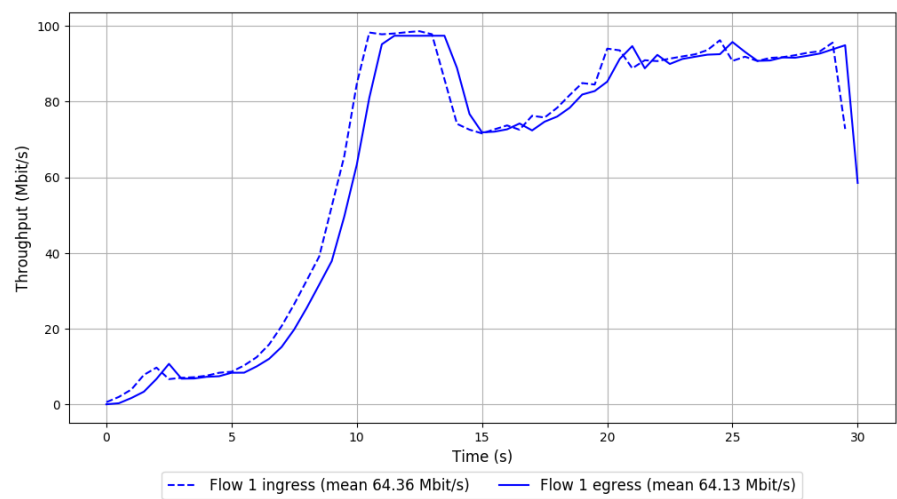
-- Flow 1:

Average throughput: 64.13 Mbit/s

95th percentile per-packet one-way delay: 96.467 ms

Loss rate: 0.92%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-18 03:51:13

End at: 2018-07-18 03:51:43

Local clock offset: -2.56 ms

Remote clock offset: 2.992 ms

Below is generated by plot.py at 2018-07-18 04:44:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.67 Mbit/s

95th percentile per-packet one-way delay: 84.962 ms

Loss rate: 1.77%

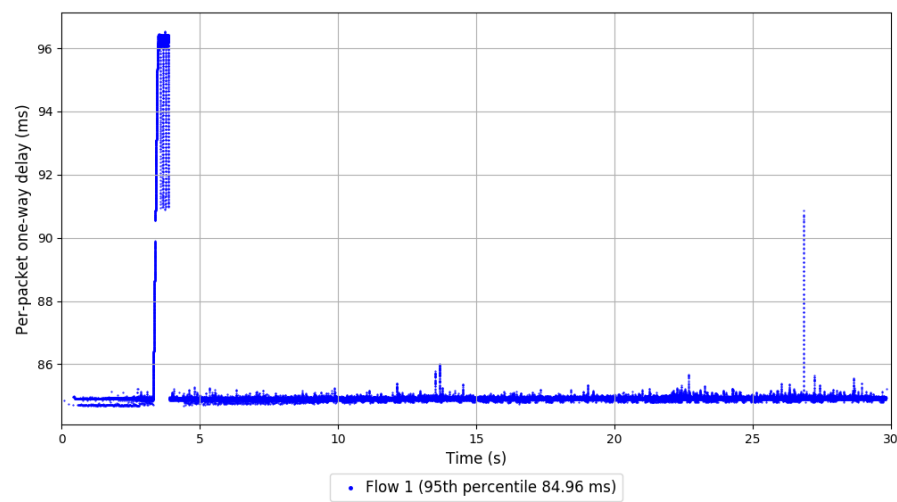
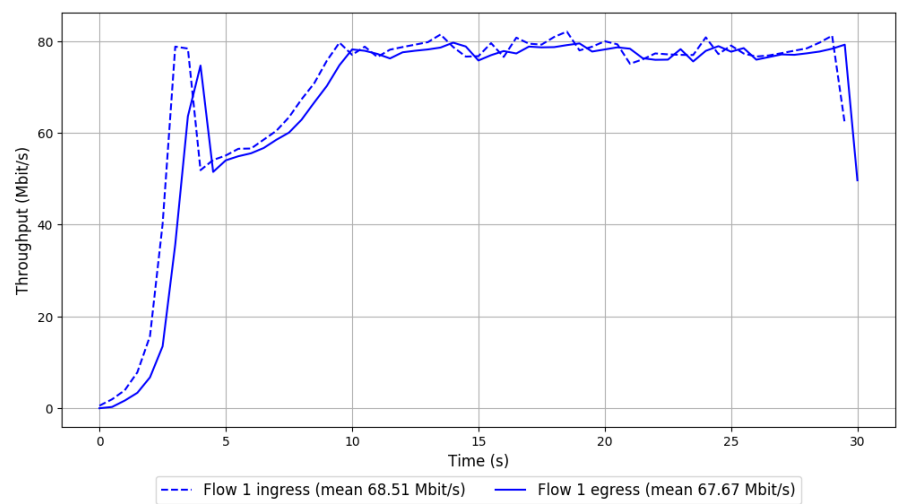
-- Flow 1:

Average throughput: 67.67 Mbit/s

95th percentile per-packet one-way delay: 84.962 ms

Loss rate: 1.77%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-18 04:11:04

End at: 2018-07-18 04:11:34

Local clock offset: -2.069 ms

Remote clock offset: 4.686 ms

Below is generated by plot.py at 2018-07-18 04:44:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.26 Mbit/s

95th percentile per-packet one-way delay: 93.172 ms

Loss rate: 0.98%

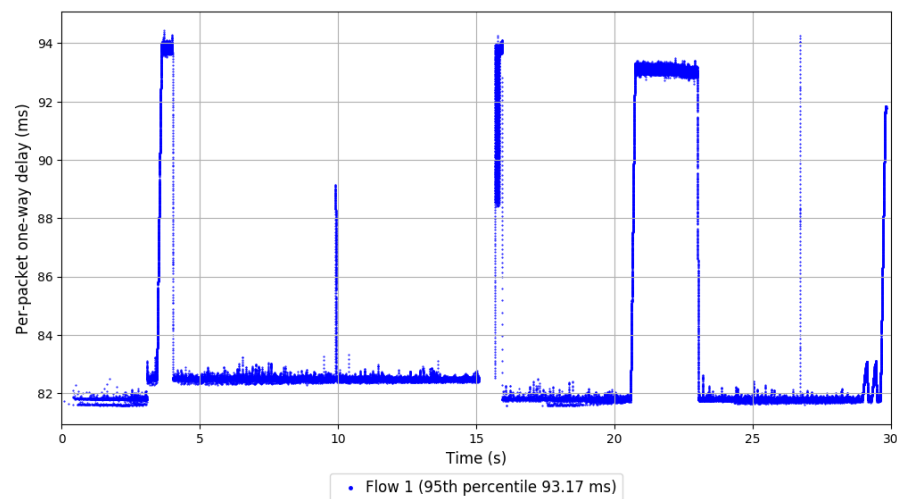
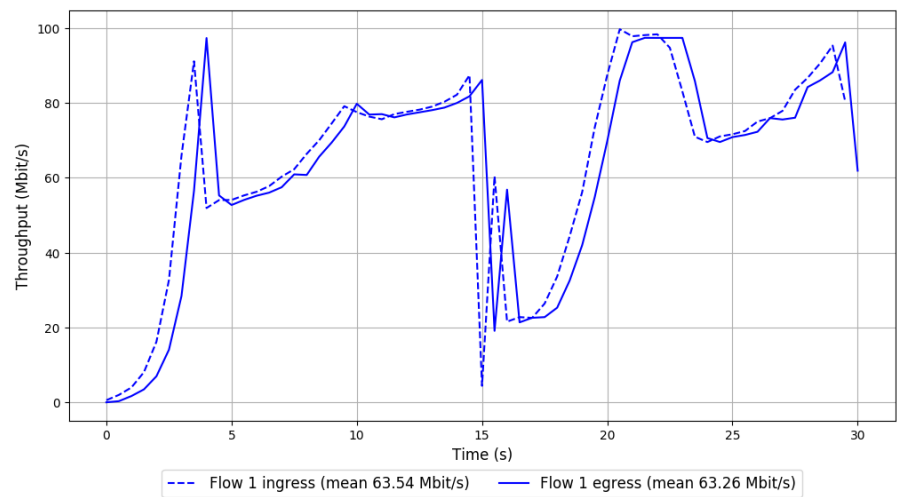
-- Flow 1:

Average throughput: 63.26 Mbit/s

95th percentile per-packet one-way delay: 93.172 ms

Loss rate: 0.98%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-07-18 01:19:51

End at: 2018-07-18 01:20:21

Local clock offset: -2.163 ms

Remote clock offset: 9.381 ms

Below is generated by plot.py at 2018-07-18 04:44:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 83.753 ms

Loss rate: 0.28%

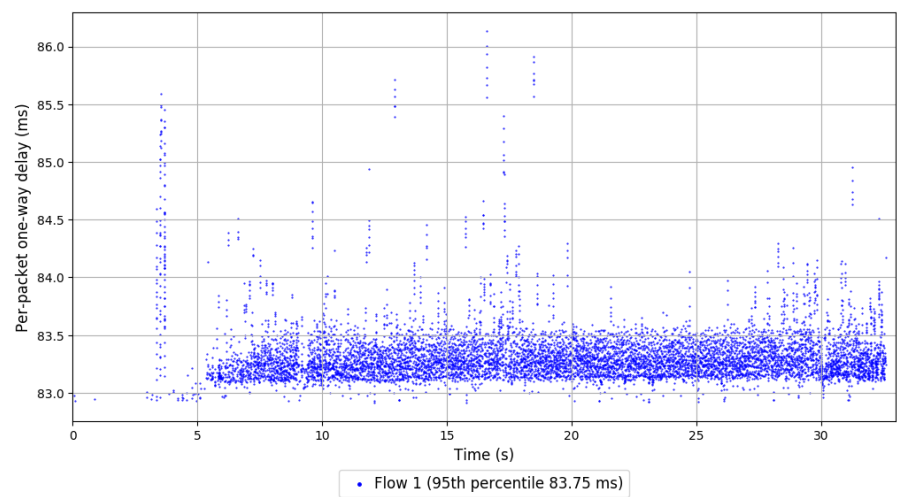
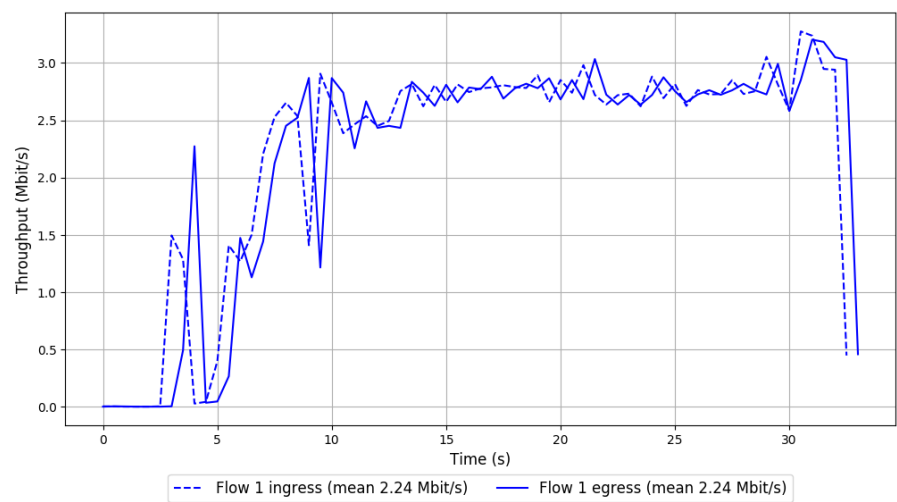
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 83.753 ms

Loss rate: 0.28%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-07-18 01:39:33

End at: 2018-07-18 01:40:03

Local clock offset: -2.476 ms

Remote clock offset: 8.959 ms

Below is generated by plot.py at 2018-07-18 04:44:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 81.976 ms

Loss rate: 0.31%

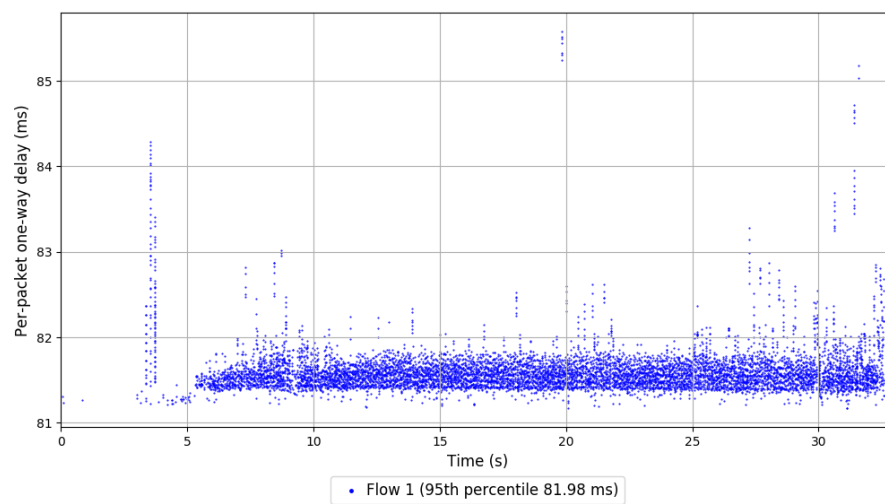
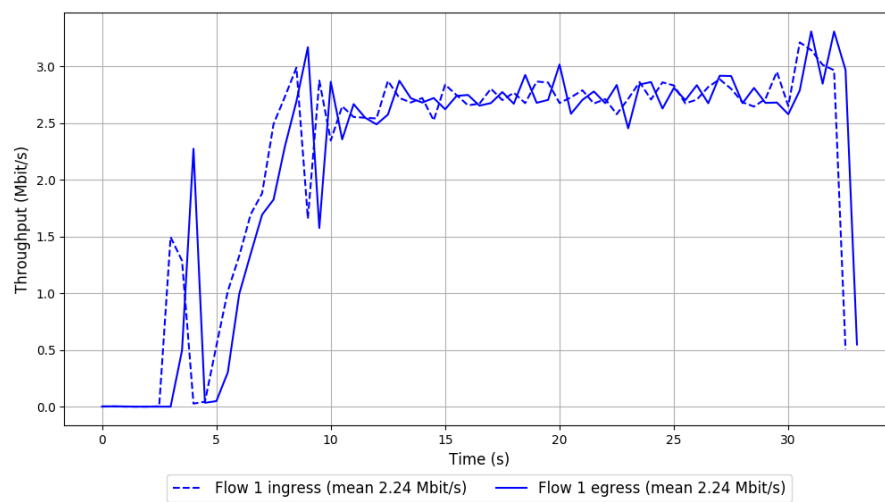
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 81.976 ms

Loss rate: 0.31%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-07-18 01:59:21

End at: 2018-07-18 01:59:51

Local clock offset: -2.505 ms

Remote clock offset: 4.626 ms

Below is generated by plot.py at 2018-07-18 04:44:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 85.908 ms

Loss rate: 0.25%

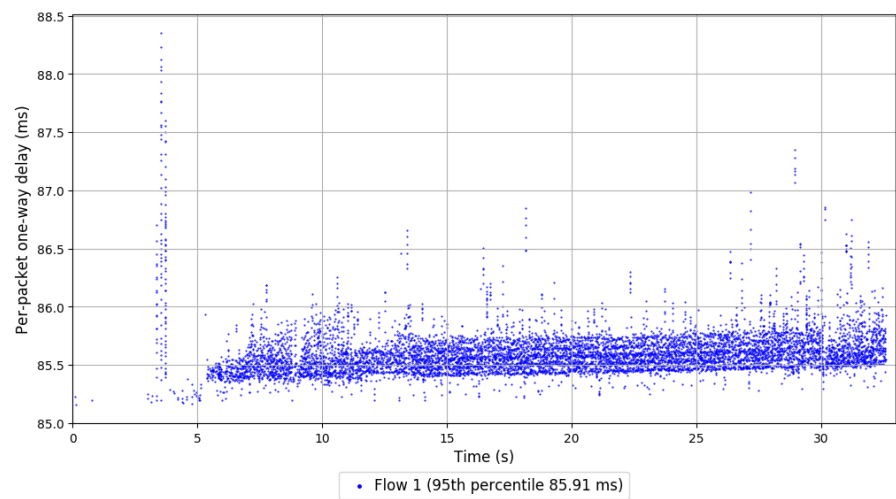
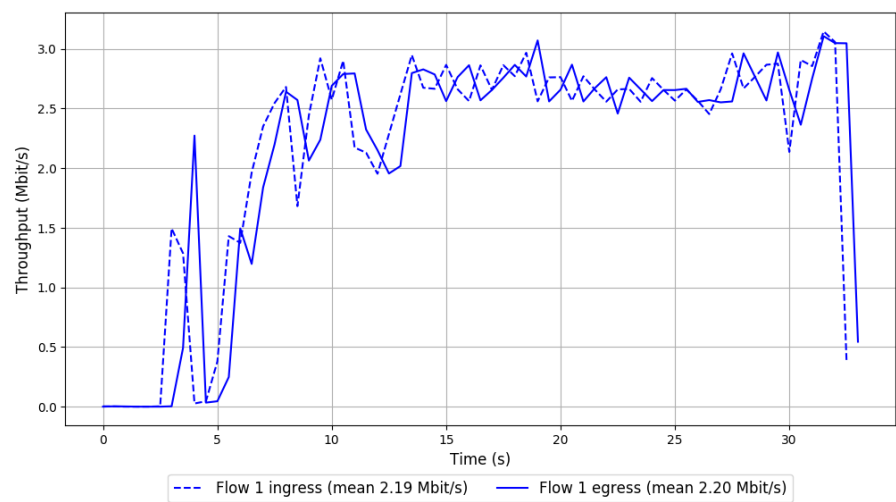
-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 85.908 ms

Loss rate: 0.25%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-07-18 02:19:04

End at: 2018-07-18 02:19:34

Local clock offset: -2.561 ms

Remote clock offset: 10.34 ms

Below is generated by plot.py at 2018-07-18 04:44:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 82.497 ms

Loss rate: 0.30%

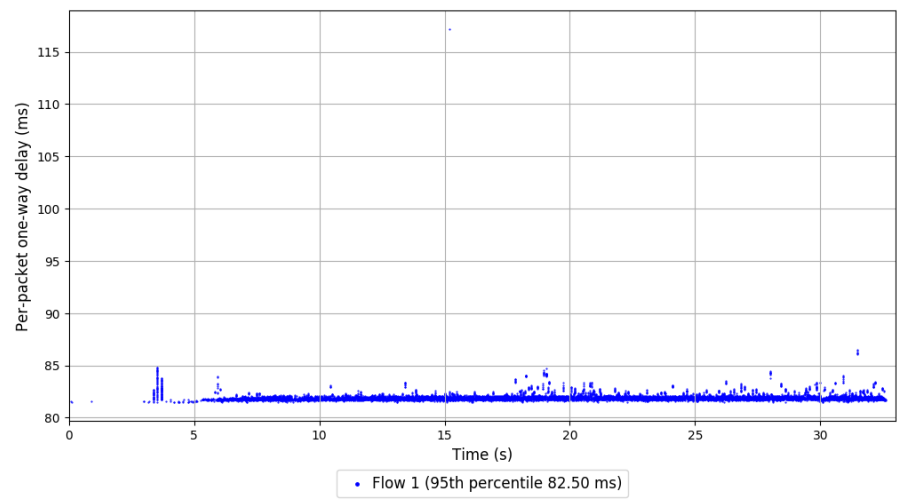
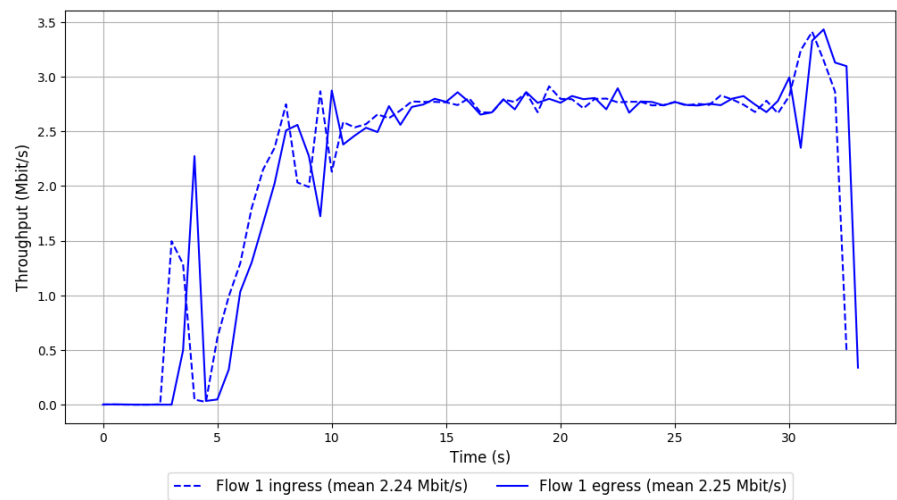
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 82.497 ms

Loss rate: 0.30%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-07-18 02:38:49

End at: 2018-07-18 02:39:19

Local clock offset: -2.65 ms

Remote clock offset: 5.129 ms

Below is generated by plot.py at 2018-07-18 04:44:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 85.454 ms

Loss rate: 0.32%

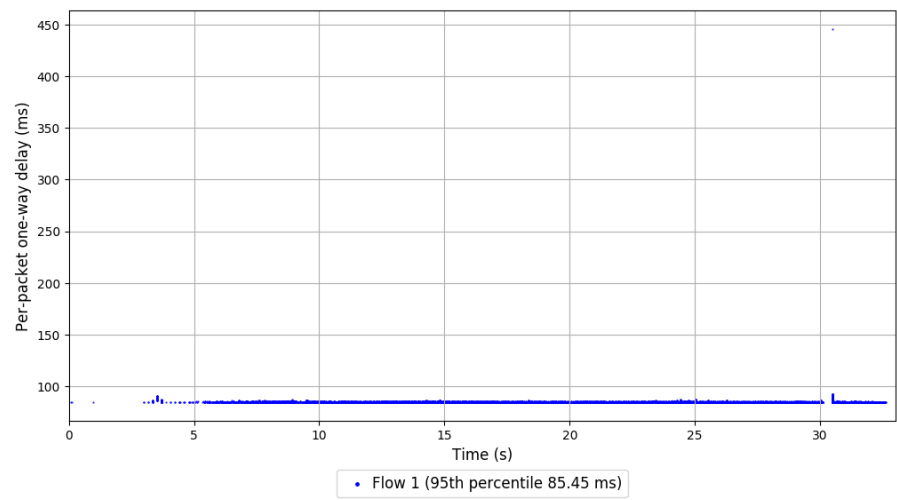
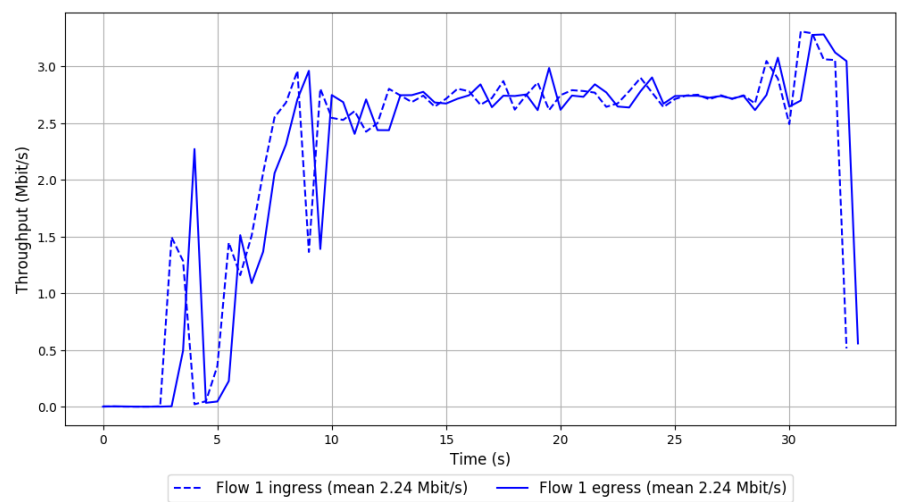
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 85.454 ms

Loss rate: 0.32%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-18 02:58:39

End at: 2018-07-18 02:59:09

Local clock offset: -2.743 ms

Remote clock offset: 1.933 ms

Below is generated by plot.py at 2018-07-18 04:44:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 85.162 ms

Loss rate: 0.30%

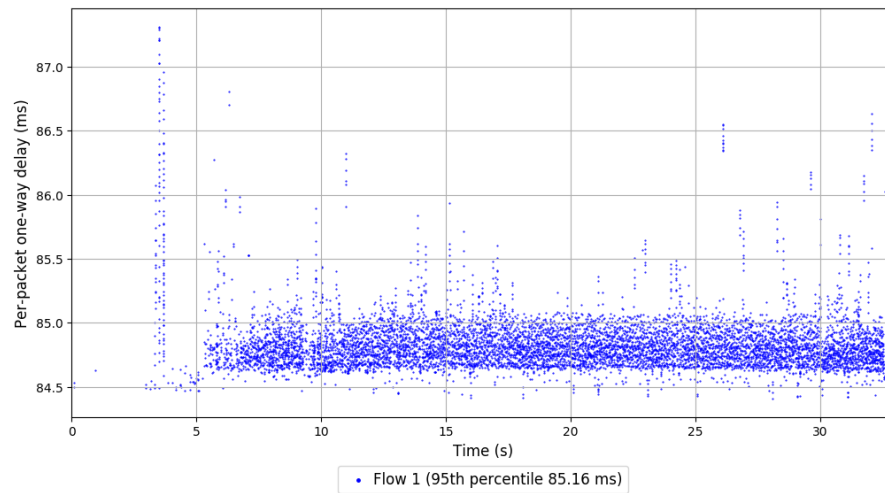
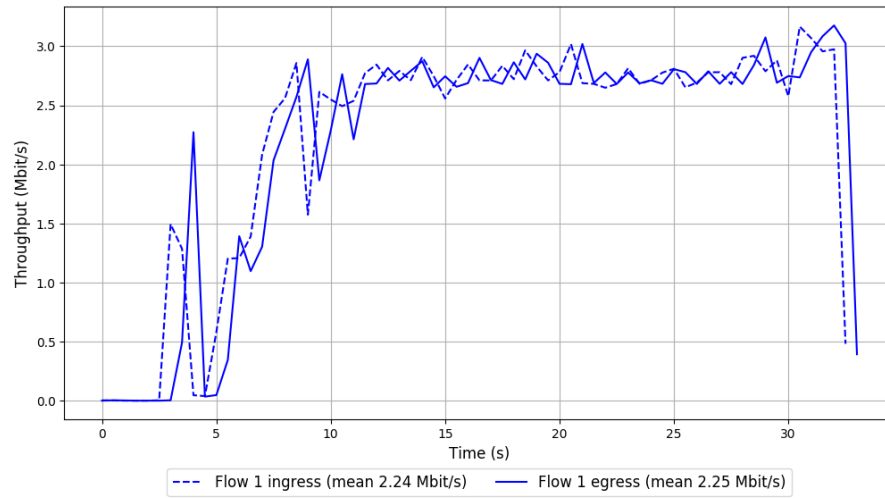
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 85.162 ms

Loss rate: 0.30%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-07-18 03:18:33

End at: 2018-07-18 03:19:04

Local clock offset: -3.117 ms

Remote clock offset: 1.321 ms

Below is generated by plot.py at 2018-07-18 04:44:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 85.922 ms

Loss rate: 0.31%

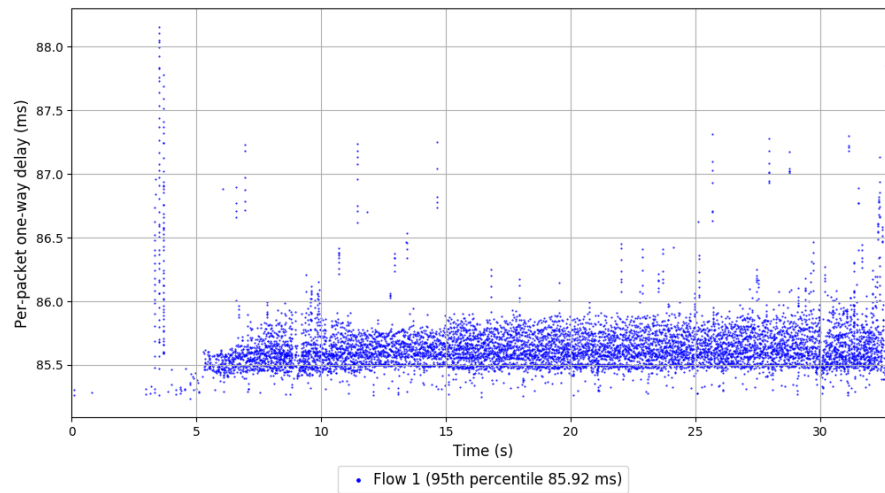
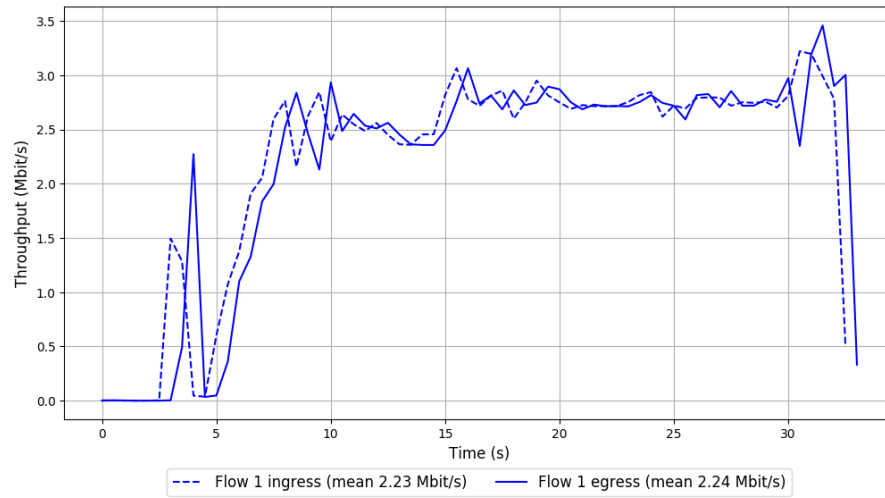
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 85.922 ms

Loss rate: 0.31%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-07-18 03:38:28

End at: 2018-07-18 03:38:58

Local clock offset: -2.67 ms

Remote clock offset: 2.575 ms

Below is generated by plot.py at 2018-07-18 04:44:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 82.520 ms

Loss rate: 0.33%

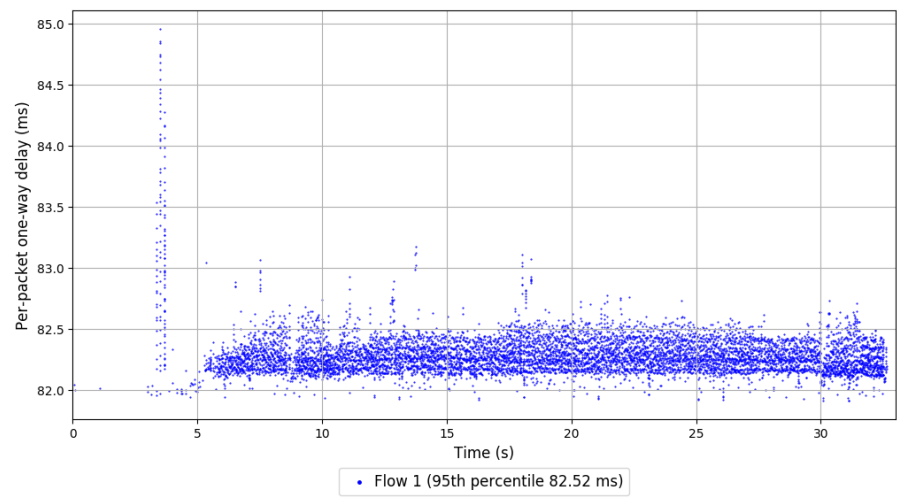
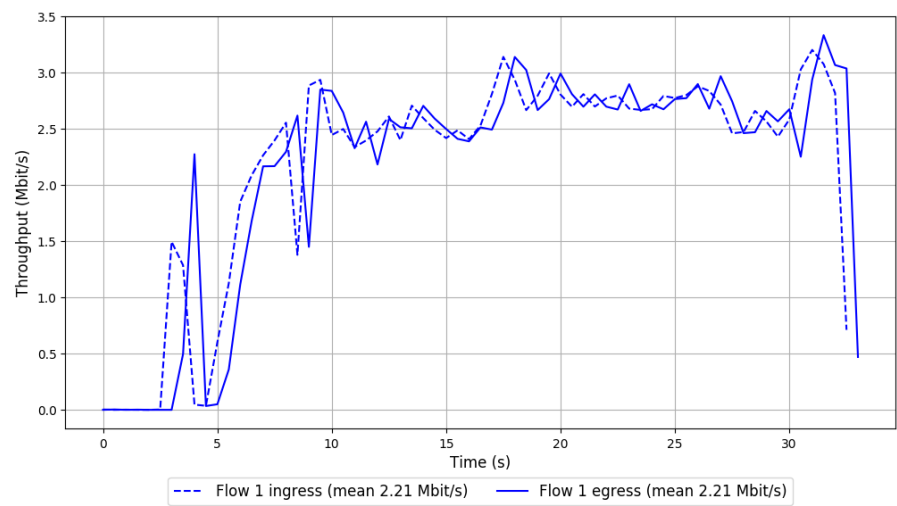
-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 82.520 ms

Loss rate: 0.33%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-18 03:58:16

End at: 2018-07-18 03:58:46

Local clock offset: -2.369 ms

Remote clock offset: 4.465 ms

Below is generated by plot.py at 2018-07-18 04:44:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 82.486 ms

Loss rate: 0.54%

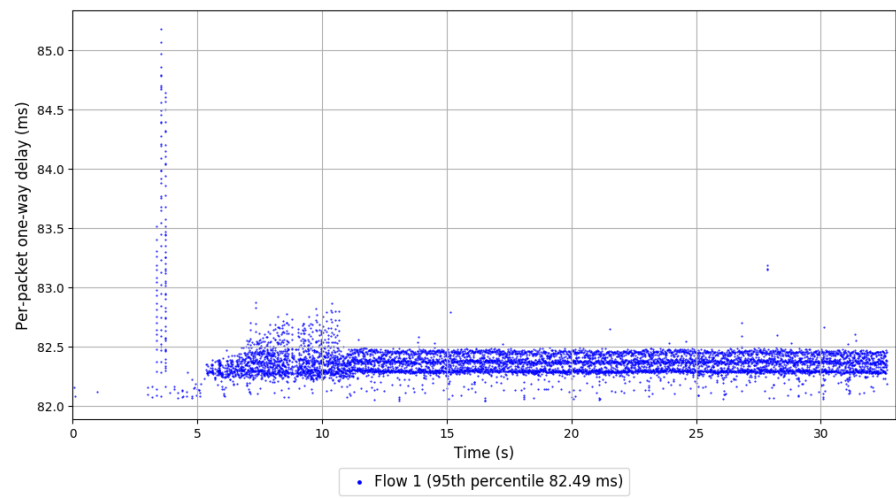
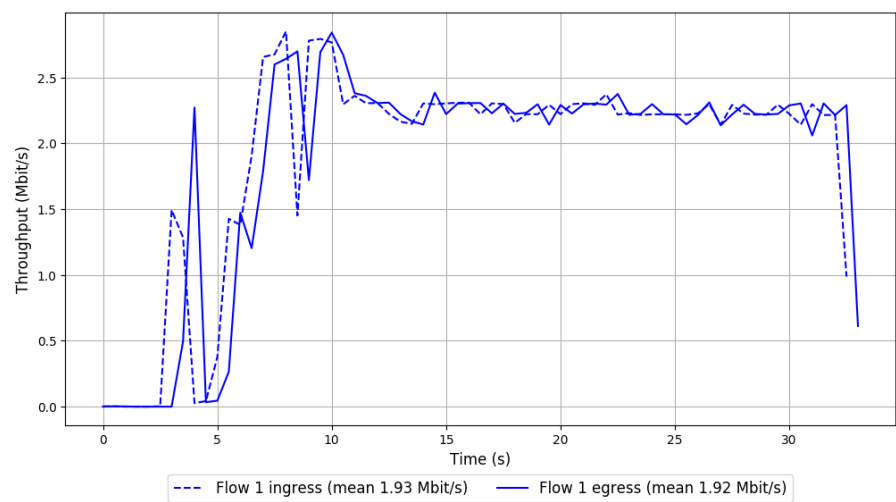
-- Flow 1:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 82.486 ms

Loss rate: 0.54%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-18 04:18:06

End at: 2018-07-18 04:18:37

Local clock offset: -2.001 ms

Remote clock offset: 7.141 ms

Below is generated by plot.py at 2018-07-18 04:44:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 82.777 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 82.777 ms

Loss rate: 0.33%

Run 10: Report of WebRTC media — Data Link

