

Pantheon Report

Generated at 2018-08-28 00:05:11 (UTC).

Data path: AWS Brazil 1 ens5 (*local*) →Brazil p4p1 (*remote*).

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

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

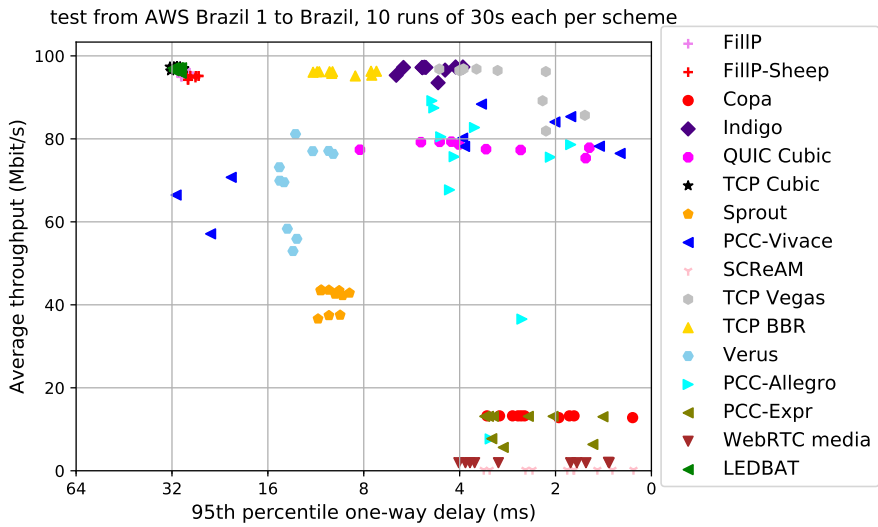
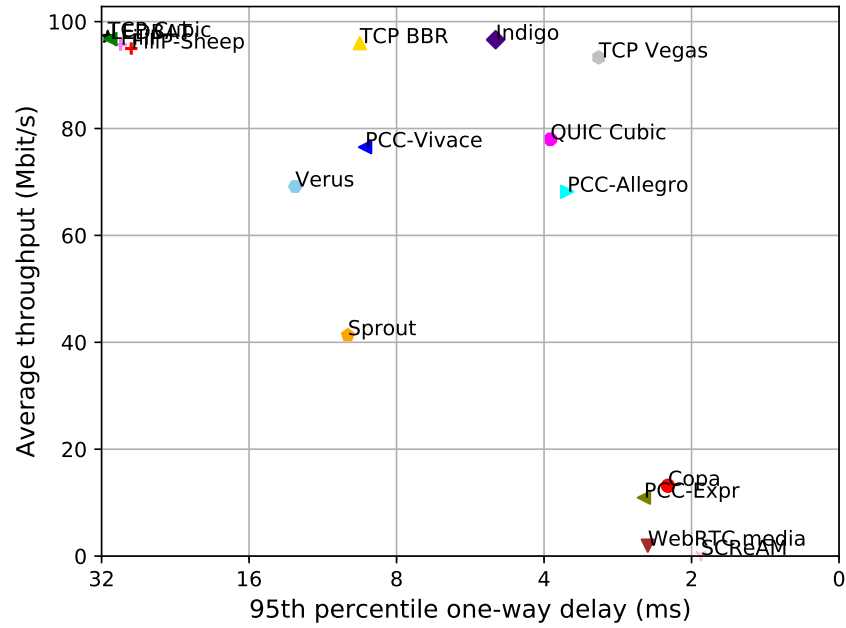
System info:

```
Linux 4.15.0-1019-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: master @ 8f31687904b612ba36b45467ab20eda73108da68
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfef58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 5386469677b75a7fdc5fe25d8daccce7950d8a69
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from AWS Brazil 1 to Brazil, 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	95.97	9.51	0.00
Copa	10	13.15	2.23	60.77
TCP Cubic	10	97.14	31.09	0.01
FillP	10	95.68	29.26	4.45
FillP-Sheep	10	94.97	27.83	1.41
Indigo	10	96.61	5.02	0.00
LEDBAT	10	96.75	30.71	0.01
PCC-Allegro	10	68.17	3.59	0.00
PCC-Expr	9	10.93	2.50	22.03
QUIC Cubic	9	77.99	3.88	0.21
SCReAM	10	0.22	1.87	0.00
Sprout	10	41.33	10.06	0.00
TaoVA-100x	0	N/A	N/A	N/A
TCP Vegas	10	93.30	3.09	0.00
Verus	10	69.15	12.88	1.00
PCC-Vivace	10	76.51	9.27	0.16
WebRTC media	10	1.95	2.46	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-08-27 20:40:57

End at: 2018-08-27 20:41:27

Local clock offset: 1.916 ms

Remote clock offset: -0.036 ms

Below is generated by plot.py at 2018-08-27 23:49:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.16 Mbit/s

95th percentile per-packet one-way delay: 8.503 ms

Loss rate: 0.00%

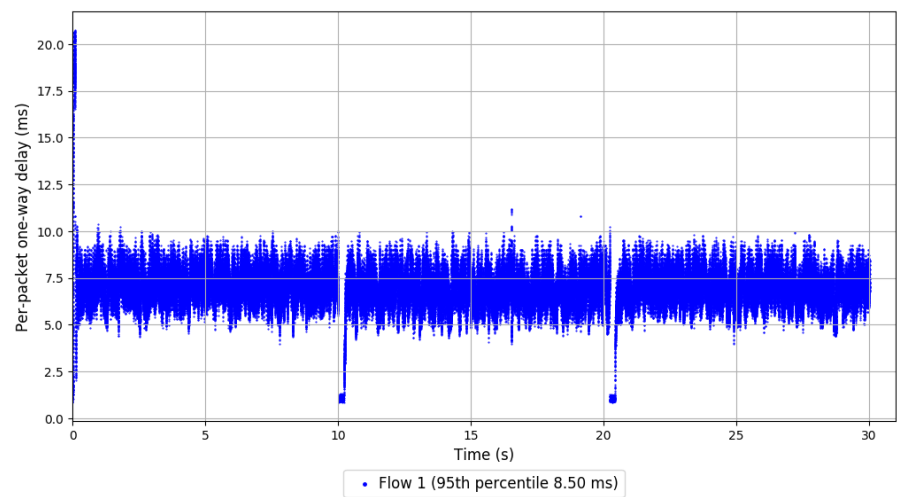
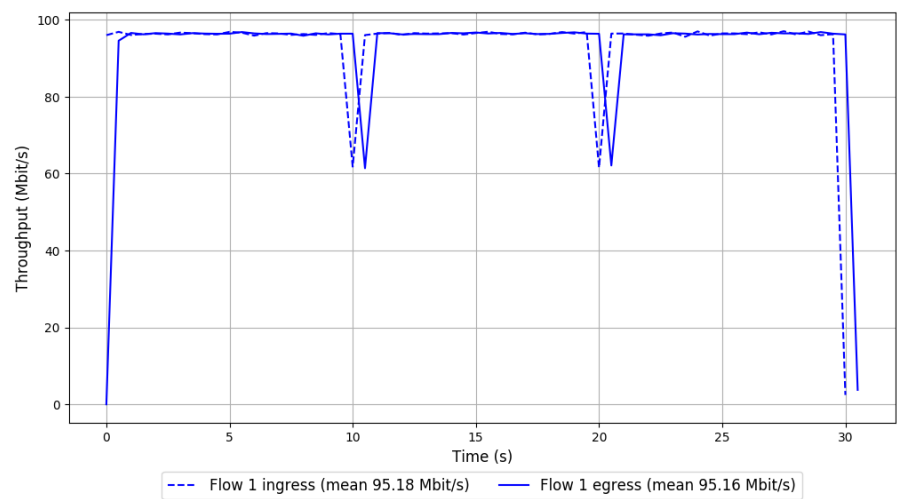
-- Flow 1:

Average throughput: 95.16 Mbit/s

95th percentile per-packet one-way delay: 8.503 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-08-27 20:59:39

End at: 2018-08-27 21:00:09

Local clock offset: 3.128 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2018-08-27 23:49:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.35 Mbit/s

95th percentile per-packet one-way delay: 7.551 ms

Loss rate: 0.00%

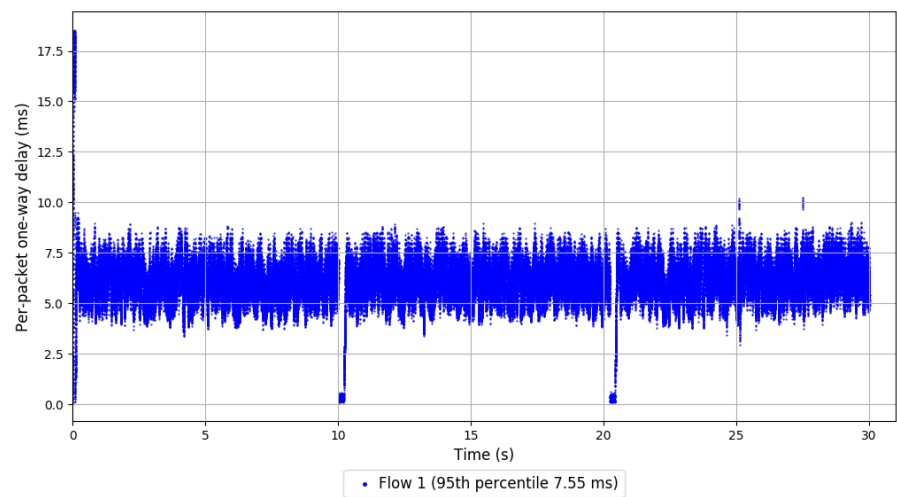
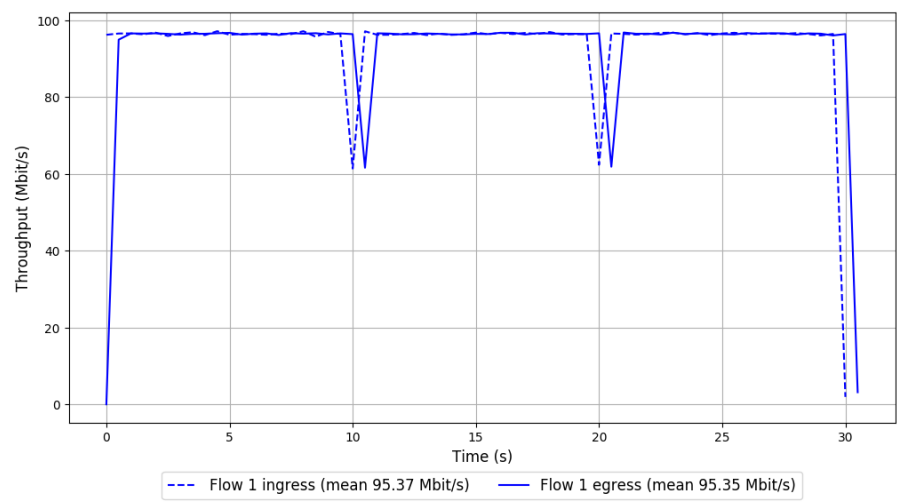
-- Flow 1:

Average throughput: 95.35 Mbit/s

95th percentile per-packet one-way delay: 7.551 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-08-27 21:18:28

End at: 2018-08-27 21:18:58

Local clock offset: 2.462 ms

Remote clock offset: 0.121 ms

Below is generated by plot.py at 2018-08-27 23:49:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.78 Mbit/s

95th percentile per-packet one-way delay: 10.087 ms

Loss rate: 0.00%

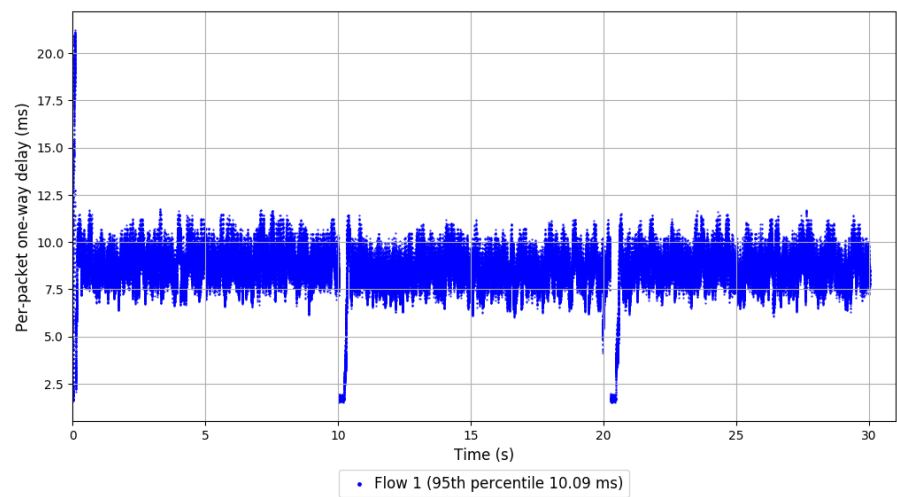
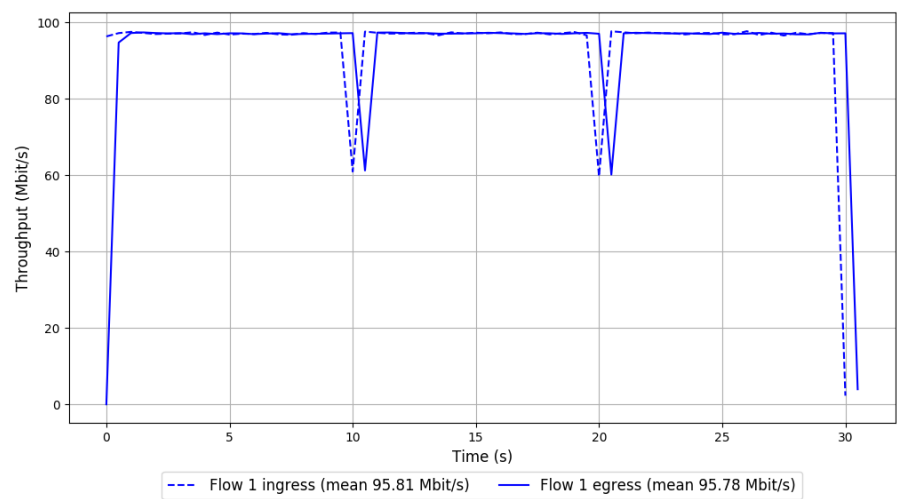
-- Flow 1:

Average throughput: 95.78 Mbit/s

95th percentile per-packet one-way delay: 10.087 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-08-27 21:37:13

End at: 2018-08-27 21:37:43

Local clock offset: 3.404 ms

Remote clock offset: 0.213 ms

Below is generated by plot.py at 2018-08-27 23:49:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.06 Mbit/s

95th percentile per-packet one-way delay: 11.537 ms

Loss rate: 0.00%

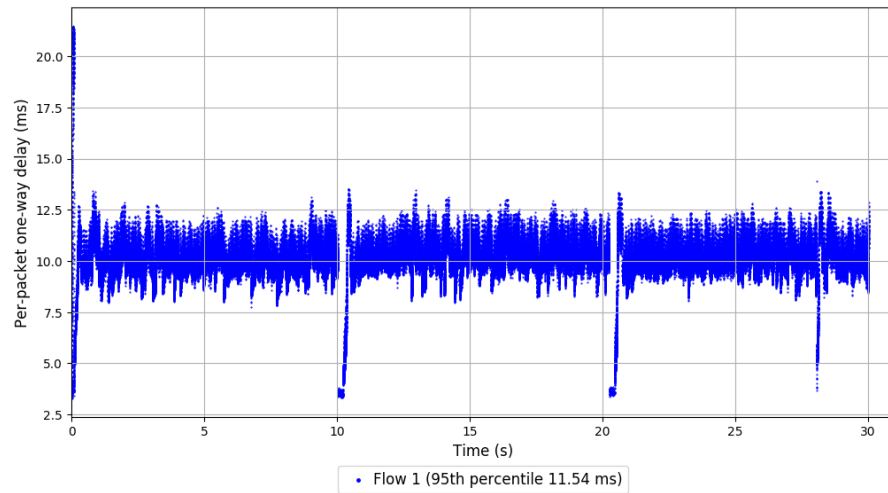
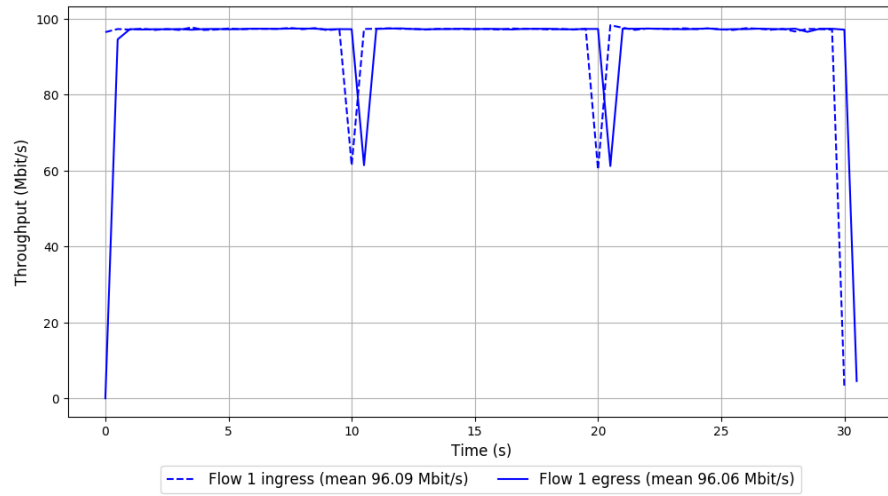
-- Flow 1:

Average throughput: 96.06 Mbit/s

95th percentile per-packet one-way delay: 11.537 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-08-27 21:55:57

End at: 2018-08-27 21:56:27

Local clock offset: 7.973 ms

Remote clock offset: 0.141 ms

Below is generated by plot.py at 2018-08-27 23:49:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.30 Mbit/s

95th percentile per-packet one-way delay: 7.590 ms

Loss rate: 0.00%

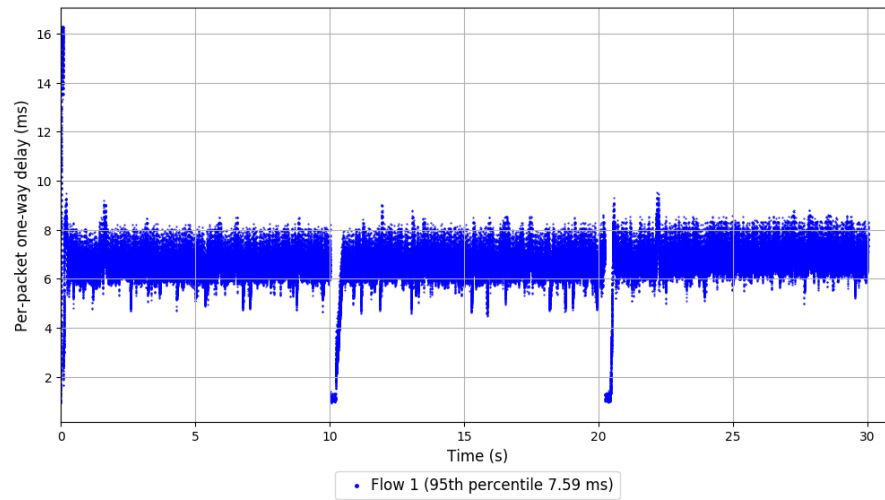
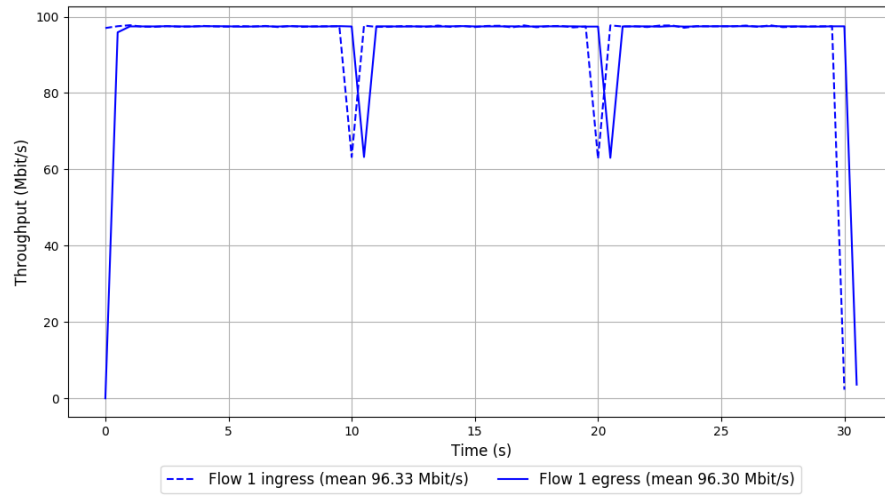
-- Flow 1:

Average throughput: 96.30 Mbit/s

95th percentile per-packet one-way delay: 7.590 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-08-27 22:14:43

End at: 2018-08-27 22:15:13

Local clock offset: 5.187 ms

Remote clock offset: 0.024 ms

Below is generated by plot.py at 2018-08-27 23:49:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.20 Mbit/s

95th percentile per-packet one-way delay: 10.246 ms

Loss rate: 0.00%

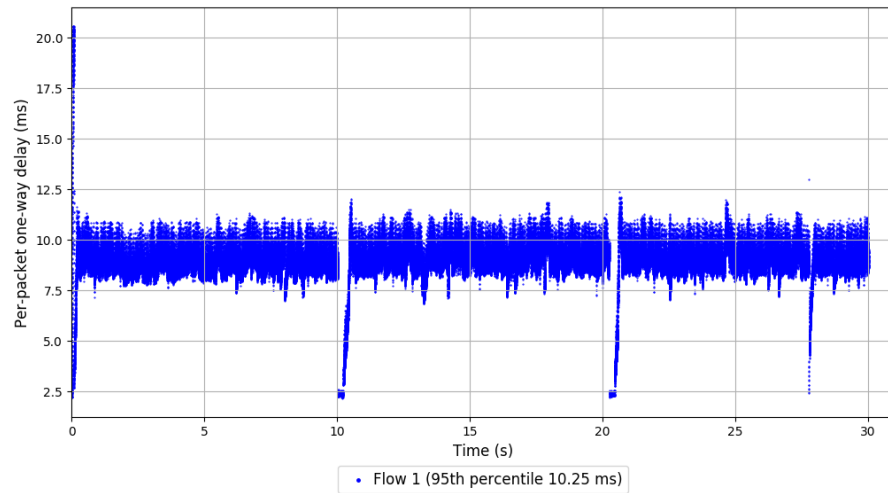
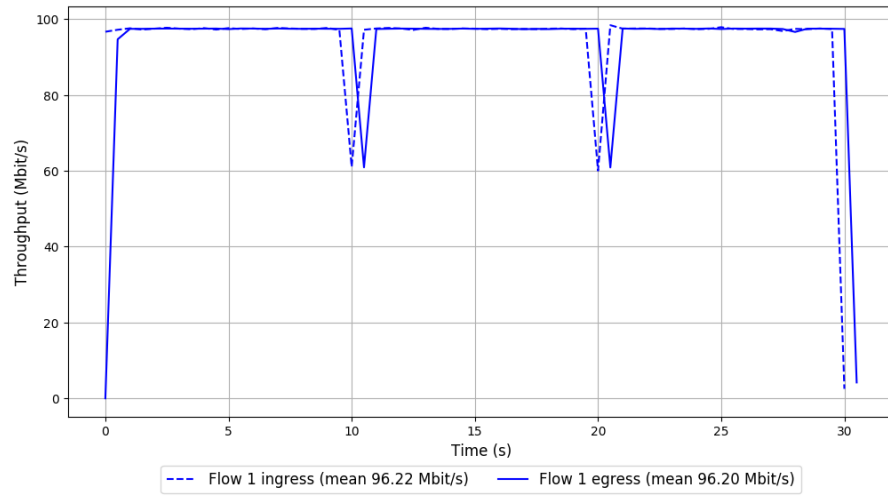
-- Flow 1:

Average throughput: 96.20 Mbit/s

95th percentile per-packet one-way delay: 10.246 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-08-27 22:33:29

End at: 2018-08-27 22:33:59

Local clock offset: 3.626 ms

Remote clock offset: -0.009 ms

Below is generated by plot.py at 2018-08-27 23:49:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.19 Mbit/s

95th percentile per-packet one-way delay: 11.036 ms

Loss rate: 0.00%

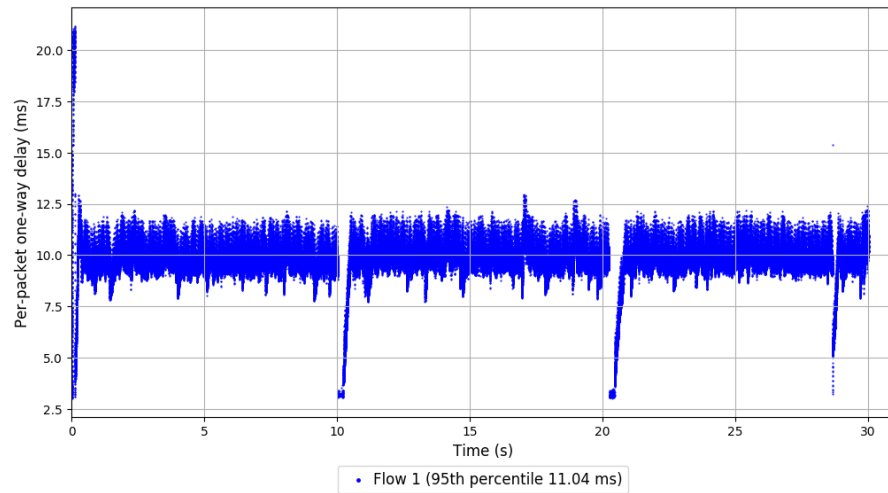
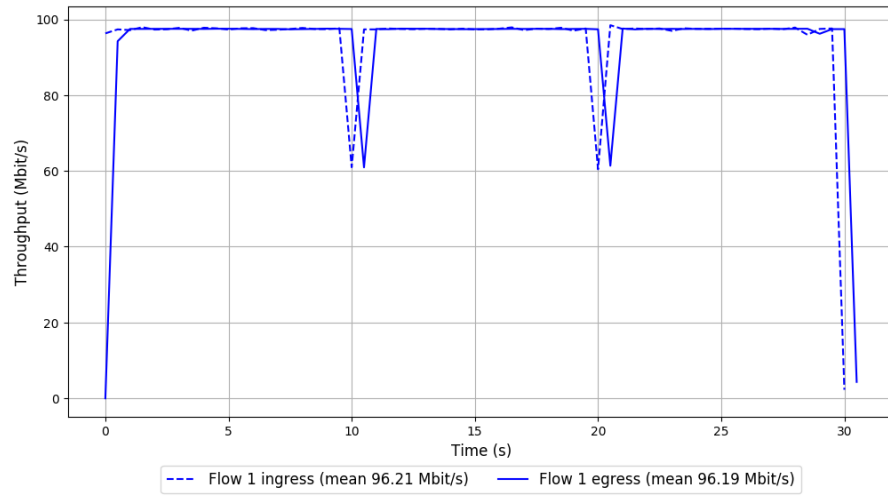
-- Flow 1:

Average throughput: 96.19 Mbit/s

95th percentile per-packet one-way delay: 11.036 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-08-27 22:52:15

End at: 2018-08-27 22:52:45

Local clock offset: 3.356 ms

Remote clock offset: 0.036 ms

Below is generated by plot.py at 2018-08-27 23:49:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.20 Mbit/s

95th percentile per-packet one-way delay: 11.208 ms

Loss rate: 0.00%

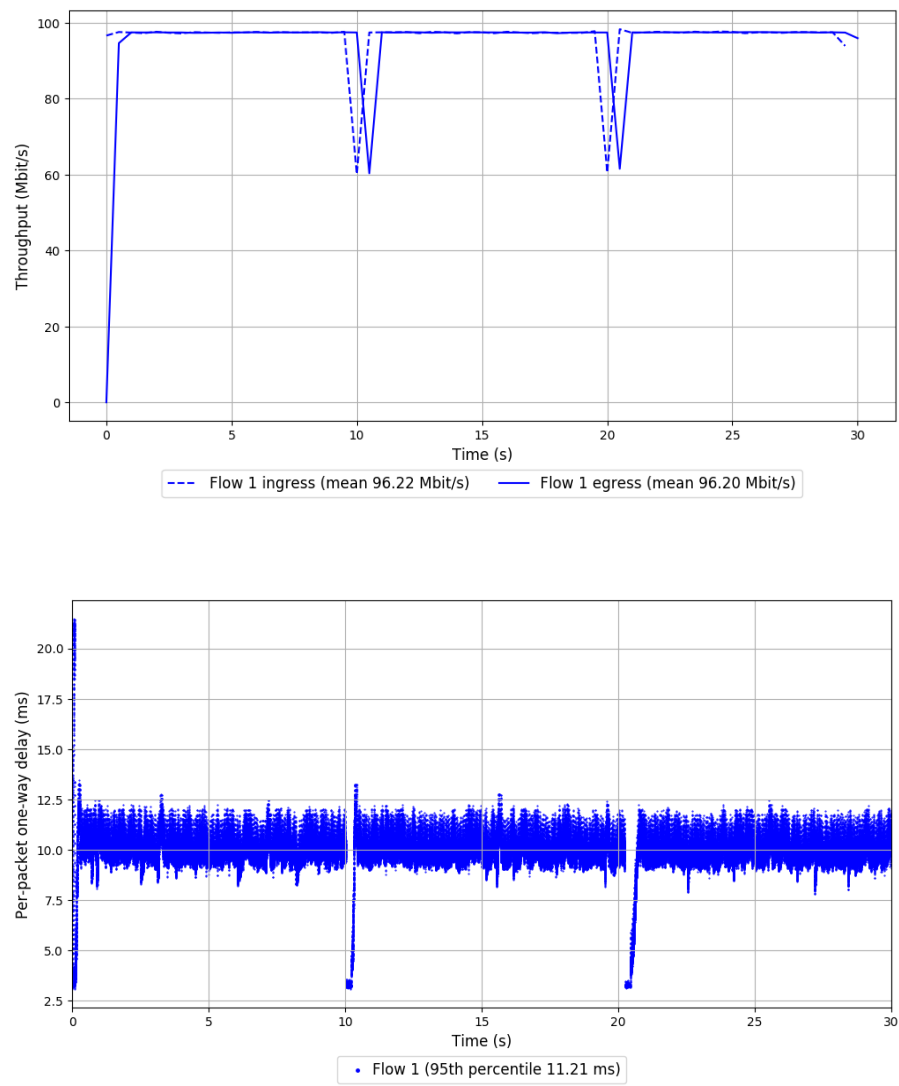
-- Flow 1:

Average throughput: 96.20 Mbit/s

95th percentile per-packet one-way delay: 11.208 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-08-27 23:10:58

End at: 2018-08-27 23:11:28

Local clock offset: 0.031 ms

Remote clock offset: -0.018 ms

Below is generated by plot.py at 2018-08-27 23:50:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.20 Mbit/s

95th percentile per-packet one-way delay: 10.027 ms

Loss rate: 0.00%

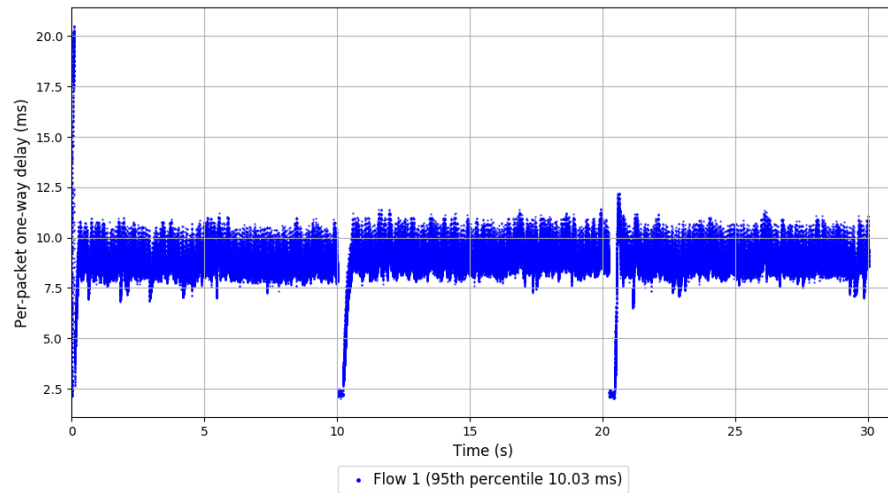
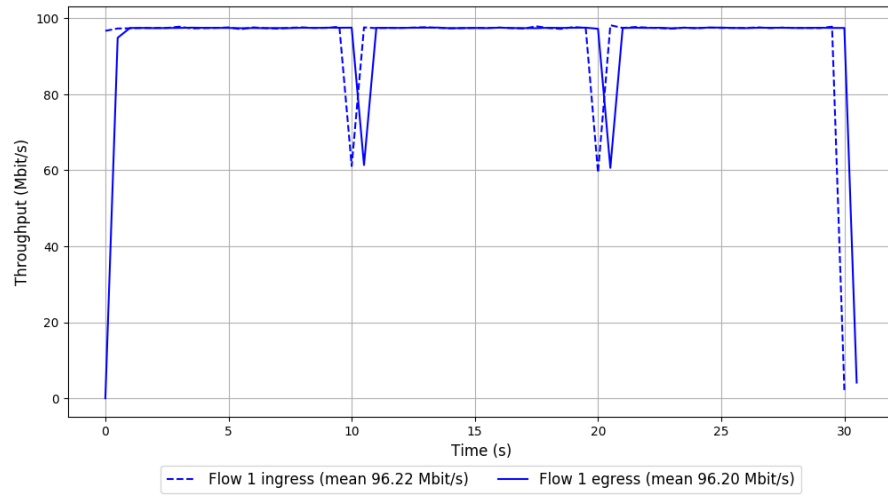
-- Flow 1:

Average throughput: 96.20 Mbit/s

95th percentile per-packet one-way delay: 10.027 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link

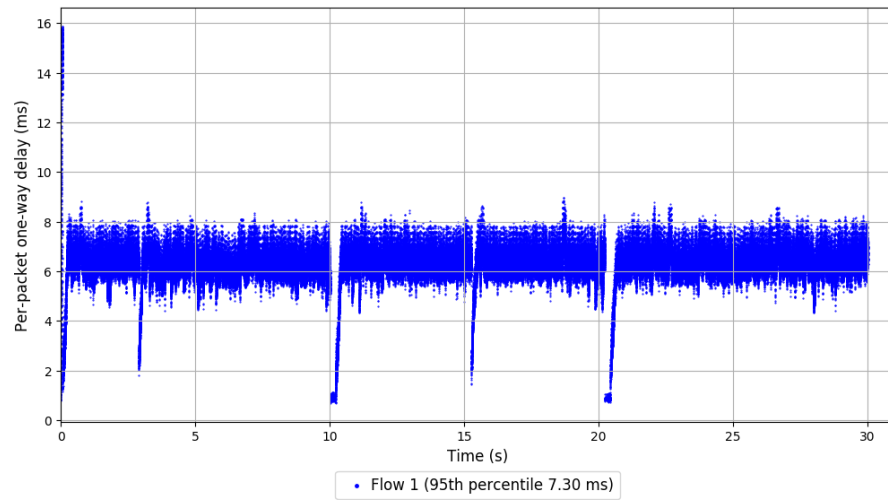
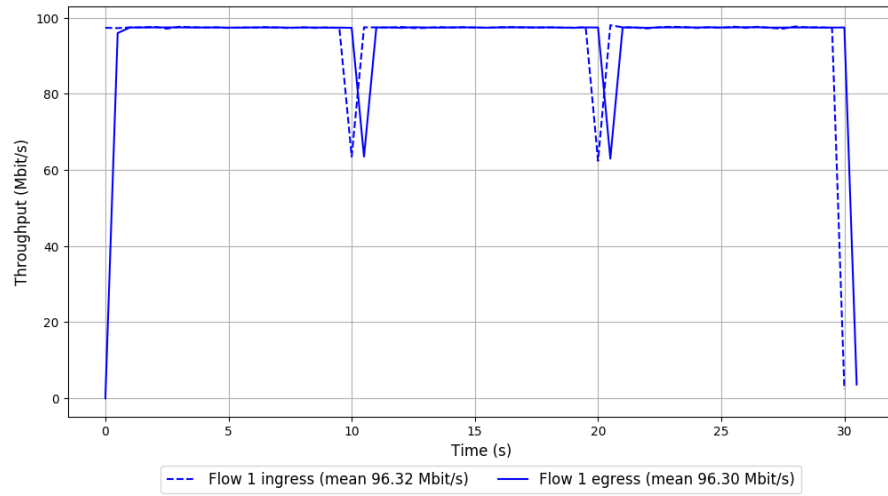


Run 10: Statistics of TCP BBR

Start at: 2018-08-27 23:29:49
End at: 2018-08-27 23:30:19
Local clock offset: -3.068 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2018-08-27 23:50:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.30 Mbit/s
95th percentile per-packet one-way delay: 7.299 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.30 Mbit/s
95th percentile per-packet one-way delay: 7.299 ms
Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link

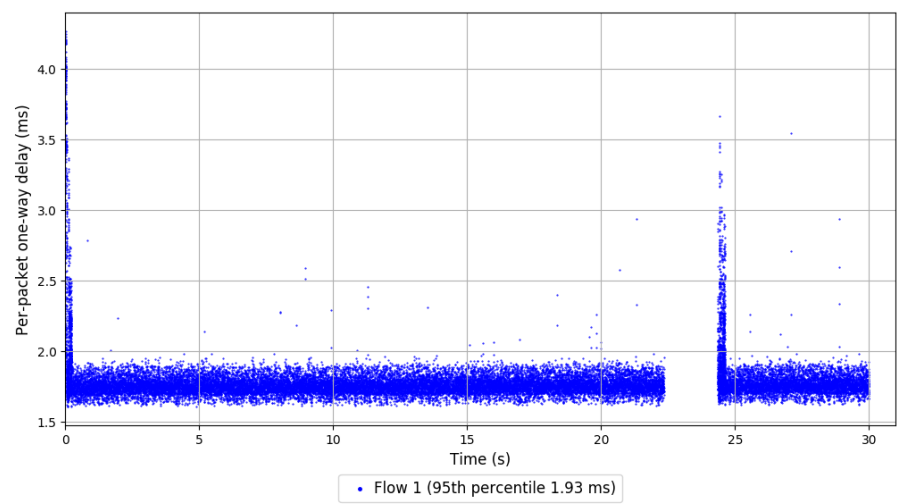
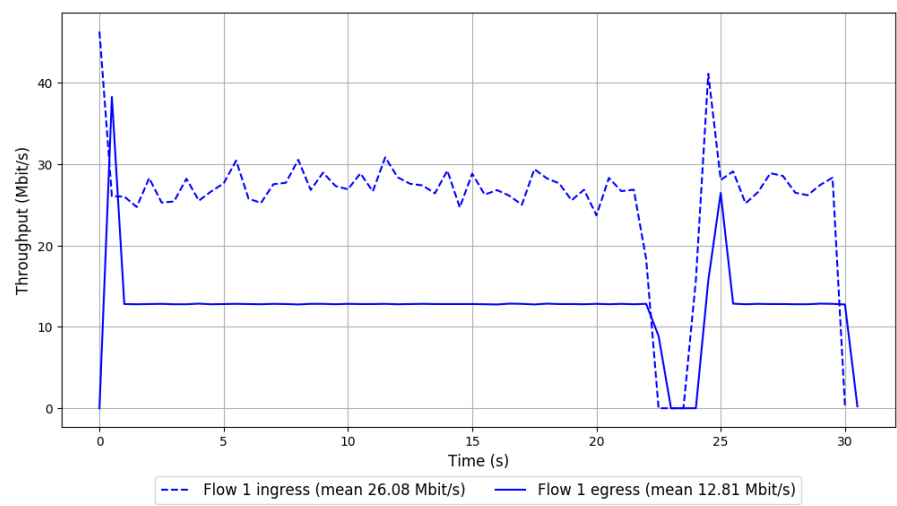


Run 1: Statistics of Copa

Start at: 2018-08-27 20:56:18
End at: 2018-08-27 20:56:48
Local clock offset: 1.502 ms
Remote clock offset: -0.007 ms

Below is generated by plot.py at 2018-08-27 23:50:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.81 Mbit/s
95th percentile per-packet one-way delay: 1.931 ms
Loss rate: 50.88%
-- Flow 1:
Average throughput: 12.81 Mbit/s
95th percentile per-packet one-way delay: 1.931 ms
Loss rate: 50.88%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-08-27 21:15:02

End at: 2018-08-27 21:15:32

Local clock offset: 2.517 ms

Remote clock offset: 0.108 ms

Below is generated by plot.py at 2018-08-27 23:50:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.81 Mbit/s

95th percentile per-packet one-way delay: 0.392 ms

Loss rate: 58.16%

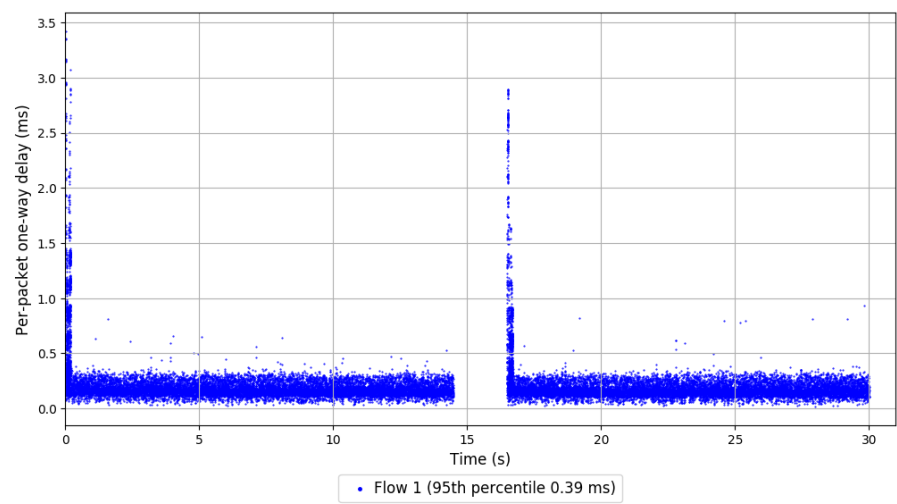
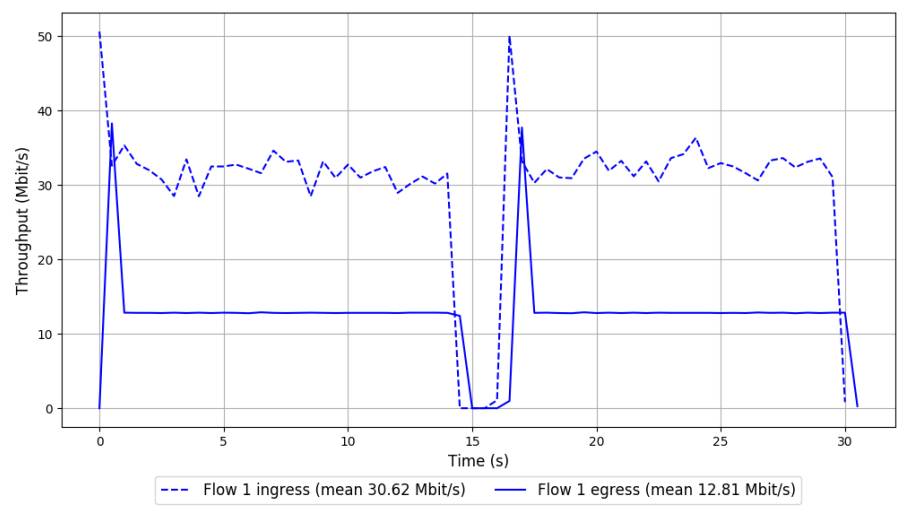
-- Flow 1:

Average throughput: 12.81 Mbit/s

95th percentile per-packet one-way delay: 0.392 ms

Loss rate: 58.16%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-08-27 21:33:53

End at: 2018-08-27 21:34:23

Local clock offset: 2.654 ms

Remote clock offset: 0.2 ms

Below is generated by plot.py at 2018-08-27 23:50:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.24 Mbit/s

95th percentile per-packet one-way delay: 2.998 ms

Loss rate: 60.50%

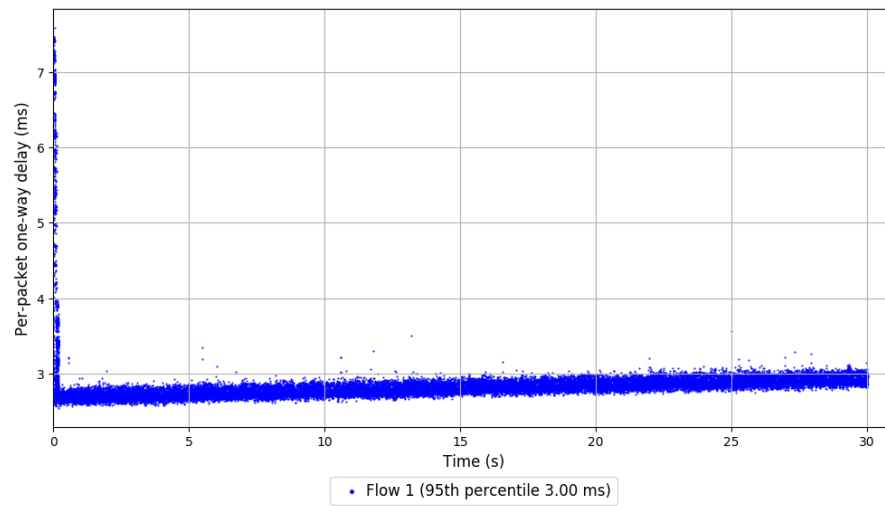
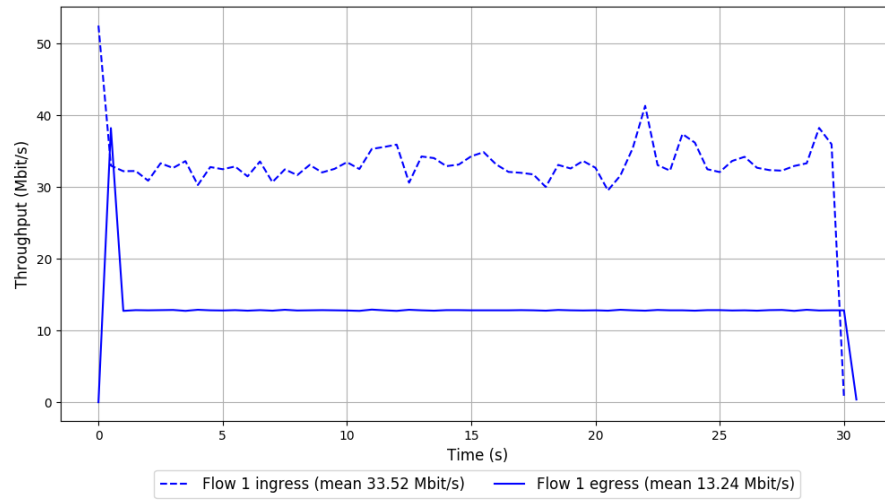
-- Flow 1:

Average throughput: 13.24 Mbit/s

95th percentile per-packet one-way delay: 2.998 ms

Loss rate: 60.50%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-08-27 21:52:37

End at: 2018-08-27 21:53:07

Local clock offset: 7.496 ms

Remote clock offset: 0.188 ms

Below is generated by plot.py at 2018-08-27 23:50:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.24 Mbit/s

95th percentile per-packet one-way delay: 2.729 ms

Loss rate: 60.07%

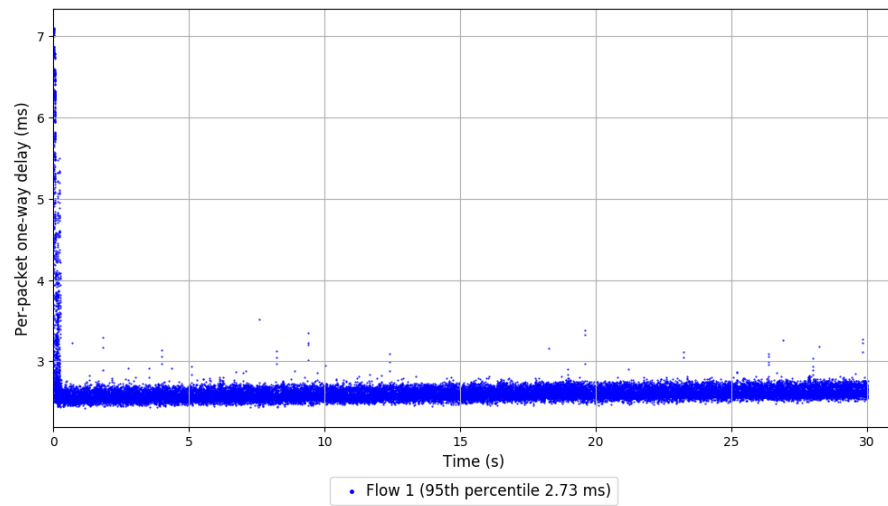
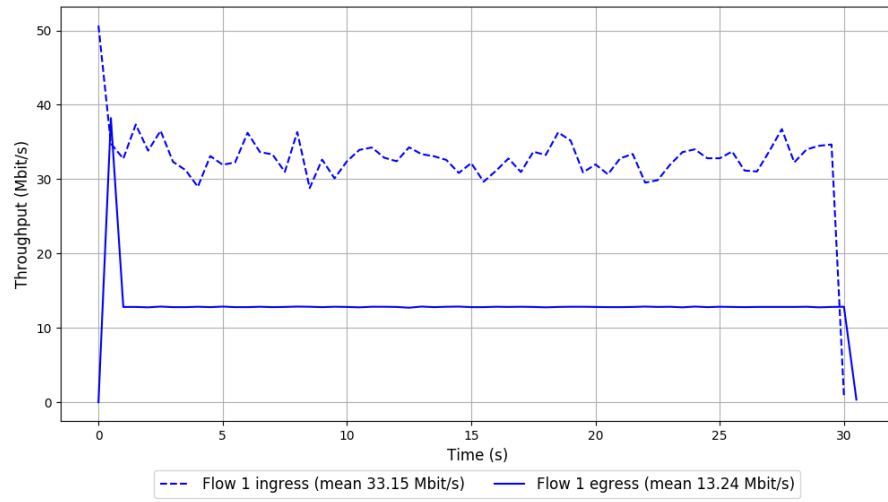
-- Flow 1:

Average throughput: 13.24 Mbit/s

95th percentile per-packet one-way delay: 2.729 ms

Loss rate: 60.07%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-08-27 22:11:22

End at: 2018-08-27 22:11:52

Local clock offset: 6.398 ms

Remote clock offset: 0.098 ms

Below is generated by plot.py at 2018-08-27 23:50:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.24 Mbit/s

95th percentile per-packet one-way delay: 1.711 ms

Loss rate: 62.34%

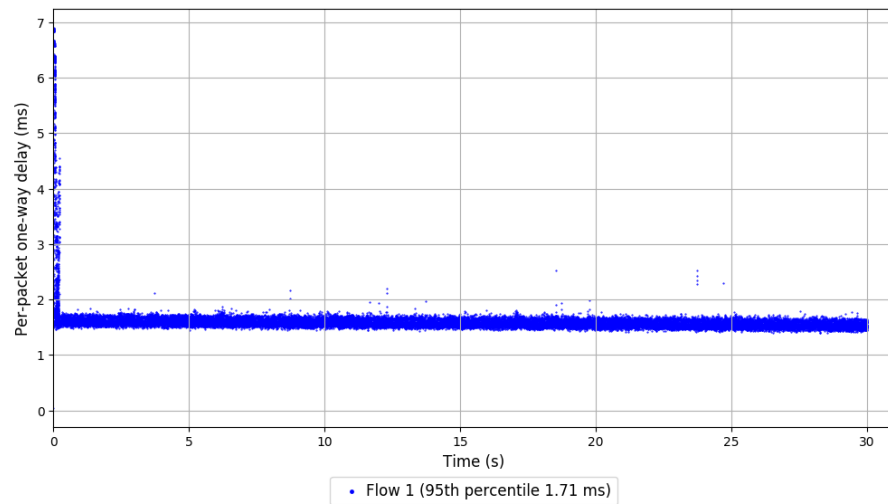
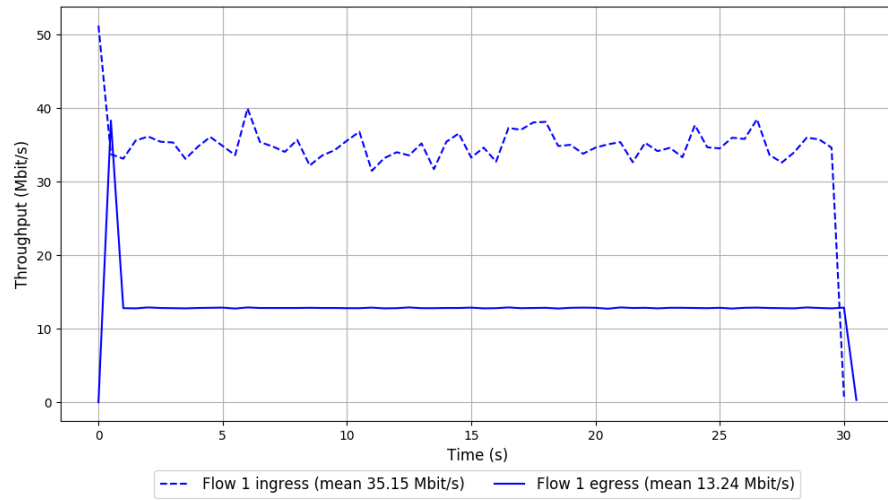
-- Flow 1:

Average throughput: 13.24 Mbit/s

95th percentile per-packet one-way delay: 1.711 ms

Loss rate: 62.34%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-08-27 22:30:08

End at: 2018-08-27 22:30:38

Local clock offset: 4.411 ms

Remote clock offset: 0.063 ms

Below is generated by plot.py at 2018-08-27 23:50:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.24 Mbit/s

95th percentile per-packet one-way delay: 2.623 ms

Loss rate: 61.89%

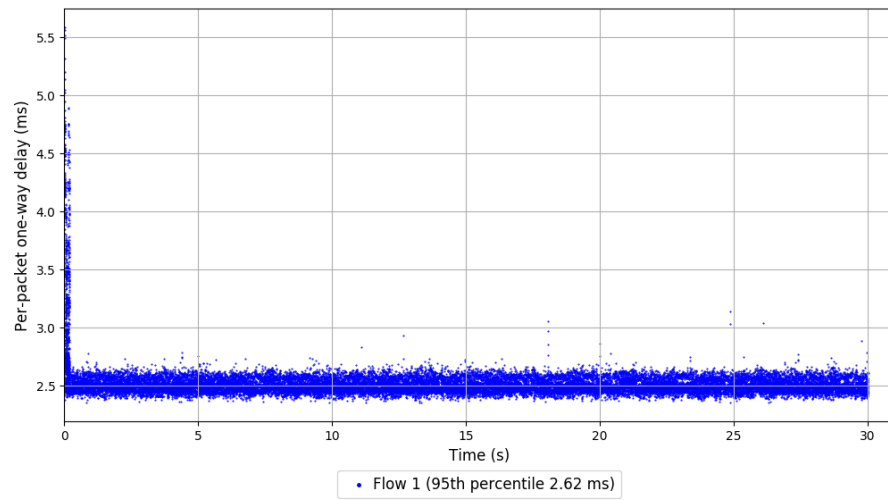
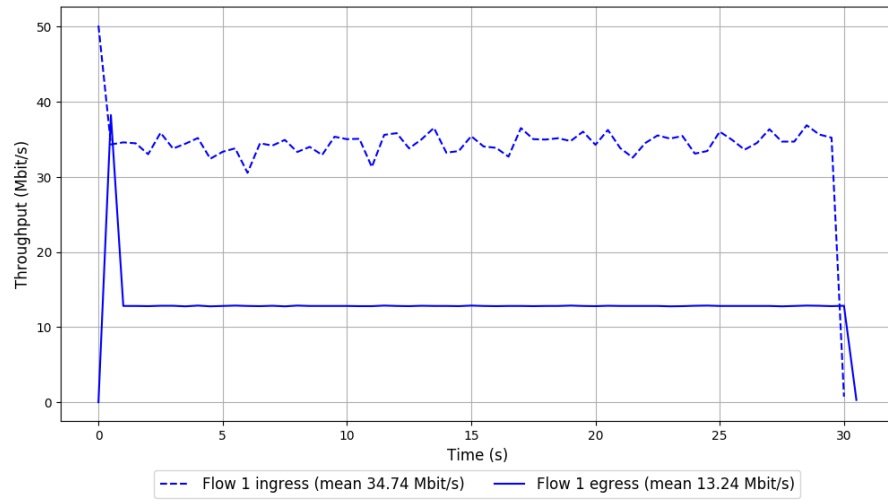
-- Flow 1:

Average throughput: 13.24 Mbit/s

95th percentile per-packet one-way delay: 2.623 ms

Loss rate: 61.89%

Run 6: Report of Copa — Data Link

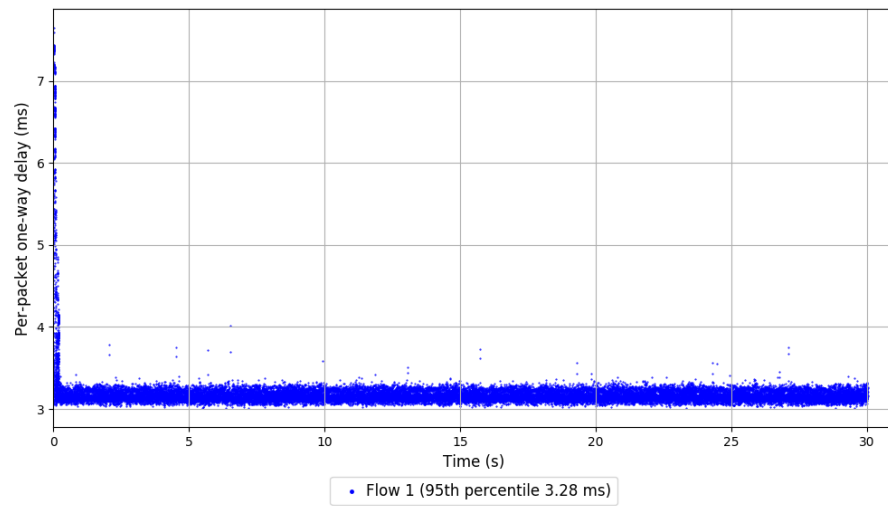
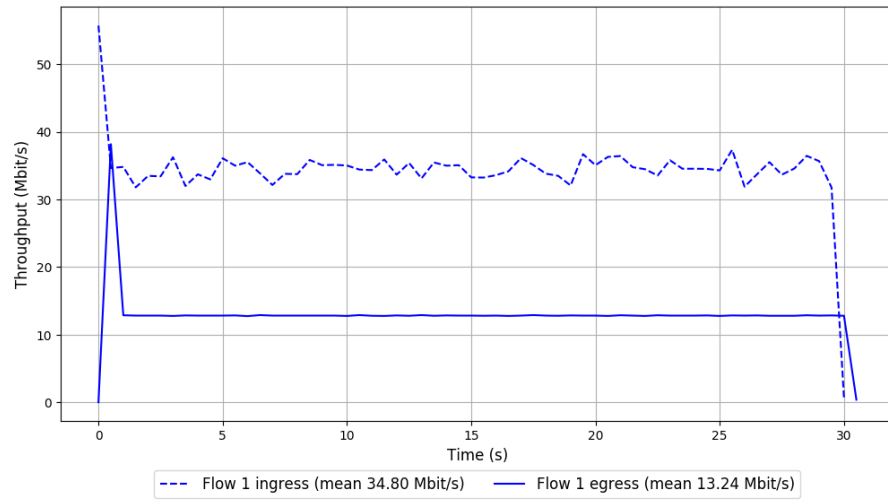


Run 7: Statistics of Copa

Start at: 2018-08-27 22:48:54
End at: 2018-08-27 22:49:24
Local clock offset: 3.297 ms
Remote clock offset: -0.069 ms

Below is generated by plot.py at 2018-08-27 23:50:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.24 Mbit/s
95th percentile per-packet one-way delay: 3.283 ms
Loss rate: 61.96%
-- Flow 1:
Average throughput: 13.24 Mbit/s
95th percentile per-packet one-way delay: 3.283 ms
Loss rate: 61.96%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-08-27 23:07:38

End at: 2018-08-27 23:08:08

Local clock offset: 0.393 ms

Remote clock offset: -0.009 ms

Below is generated by plot.py at 2018-08-27 23:50:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.24 Mbit/s

95th percentile per-packet one-way delay: 1.614 ms

Loss rate: 66.09%

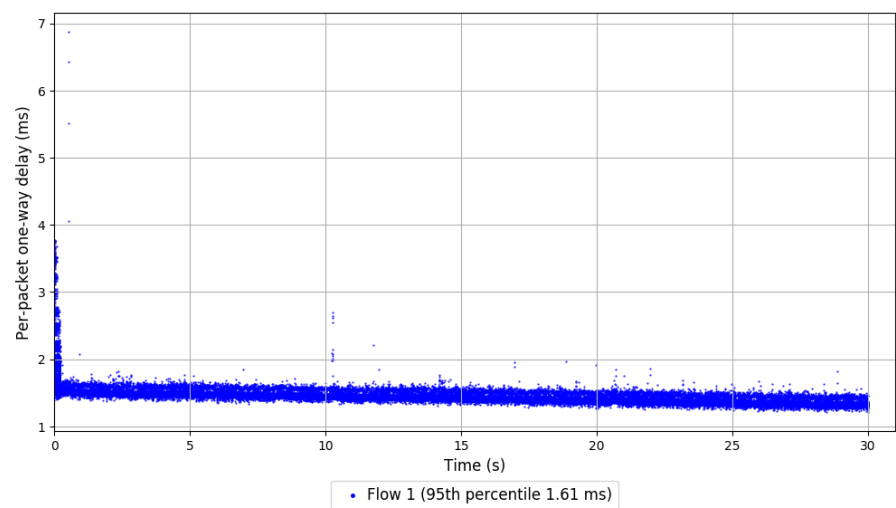
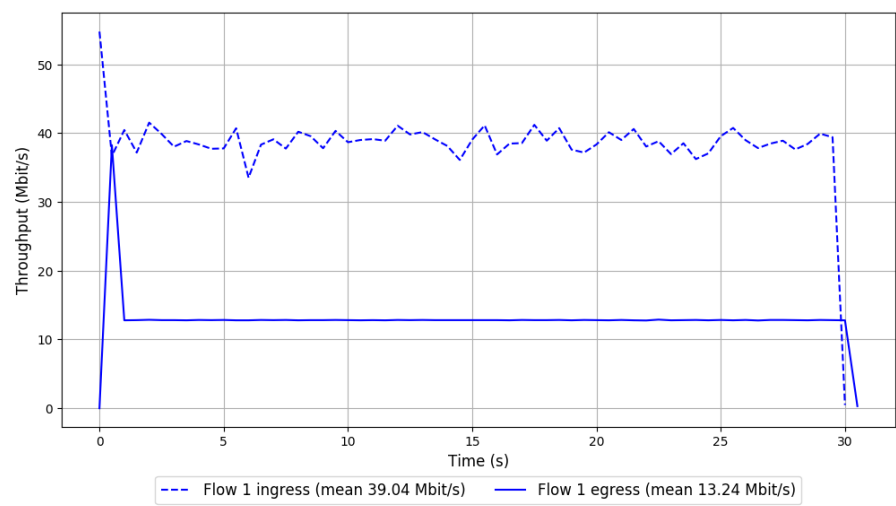
-- Flow 1:

Average throughput: 13.24 Mbit/s

95th percentile per-packet one-way delay: 1.614 ms

Loss rate: 66.09%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-08-27 23:26:28

End at: 2018-08-27 23:26:58

Local clock offset: -2.733 ms

Remote clock offset: 0.035 ms

Below is generated by plot.py at 2018-08-27 23:50:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.24 Mbit/s

95th percentile per-packet one-way delay: 2.502 ms

Loss rate: 62.95%

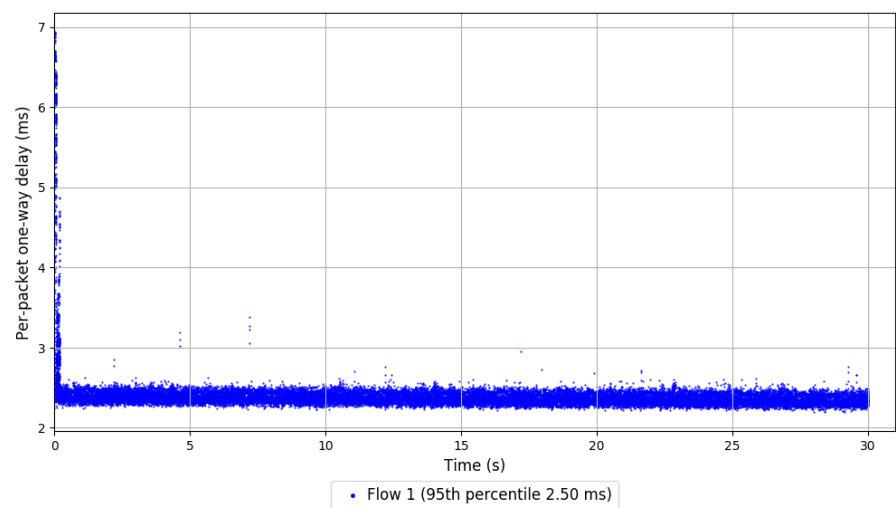
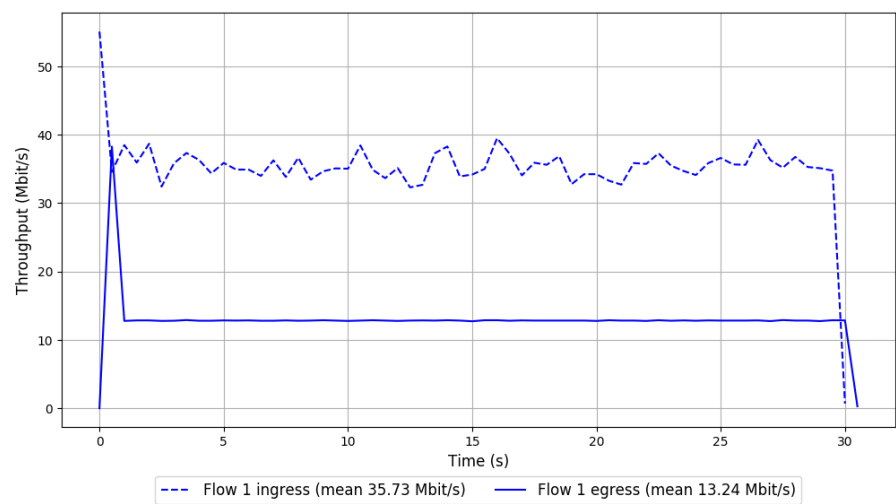
-- Flow 1:

Average throughput: 13.24 Mbit/s

95th percentile per-packet one-way delay: 2.502 ms

Loss rate: 62.95%

Run 9: Report of Copa — Data Link

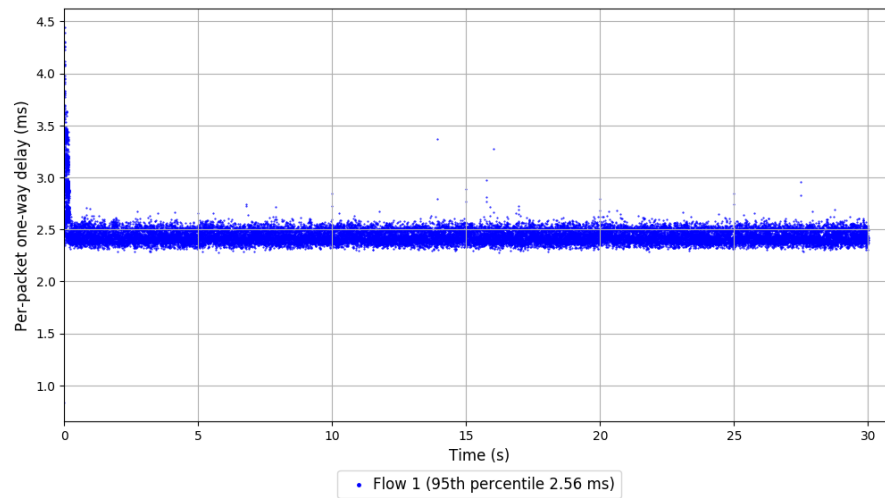
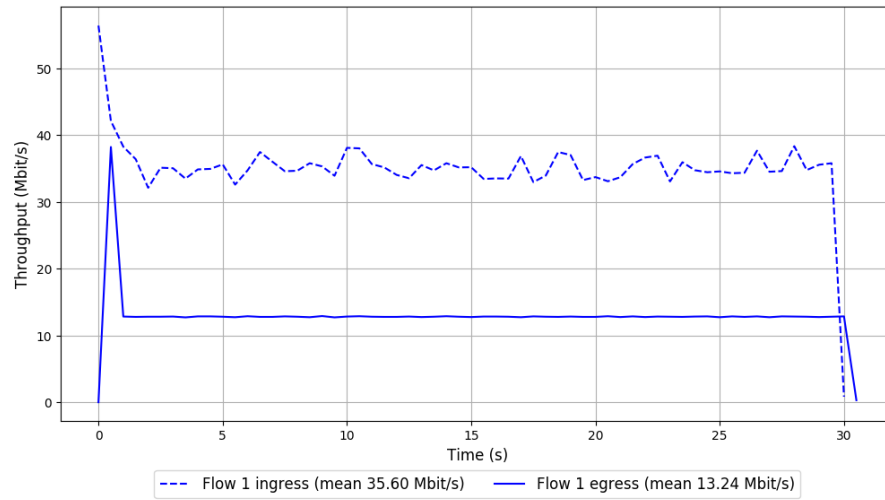


Run 10: Statistics of Copa

Start at: 2018-08-27 23:45:13
End at: 2018-08-27 23:45:43
Local clock offset: -2.358 ms
Remote clock offset: -0.024 ms

Below is generated by plot.py at 2018-08-27 23:50:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.24 Mbit/s
95th percentile per-packet one-way delay: 2.563 ms
Loss rate: 62.81%
-- Flow 1:
Average throughput: 13.24 Mbit/s
95th percentile per-packet one-way delay: 2.563 ms
Loss rate: 62.81%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-08-27 20:39:49

End at: 2018-08-27 20:40:19

Local clock offset: 1.126 ms

Remote clock offset: 0.552 ms

Below is generated by plot.py at 2018-08-27 23:50:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.41 Mbit/s

95th percentile per-packet one-way delay: 32.349 ms

Loss rate: 0.02%

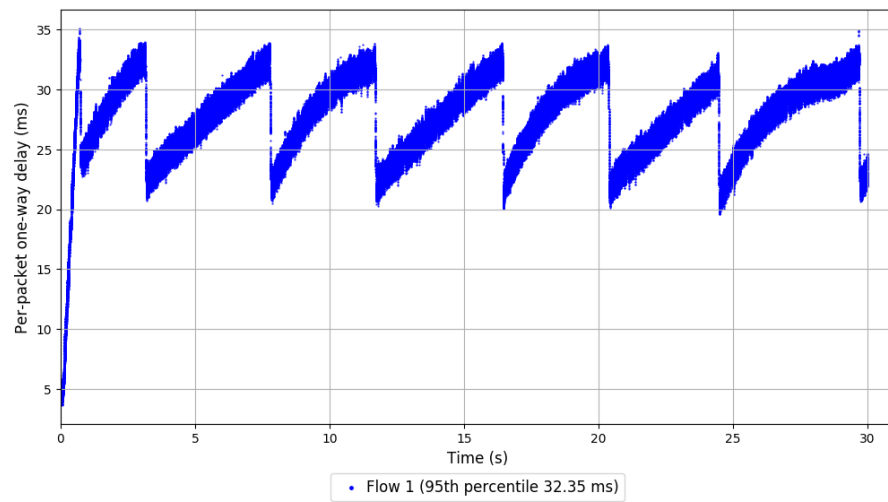
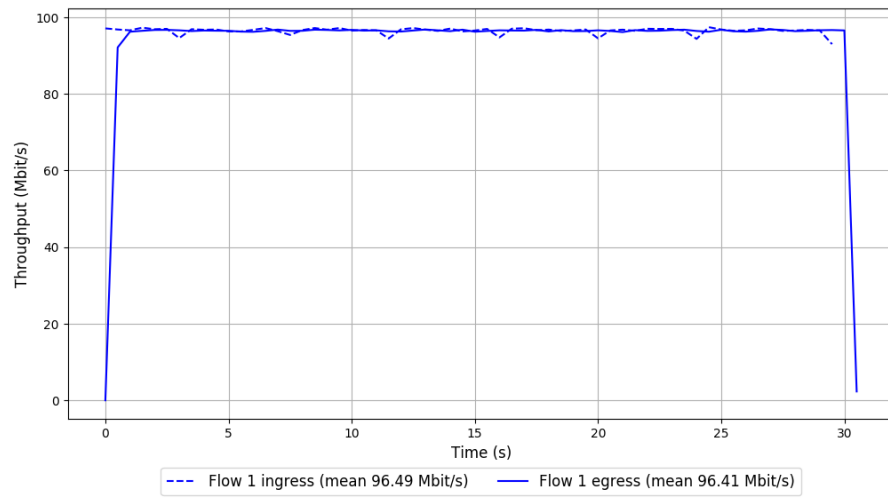
-- Flow 1:

Average throughput: 96.41 Mbit/s

95th percentile per-packet one-way delay: 32.349 ms

Loss rate: 0.02%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-08-27 20:58:31

End at: 2018-08-27 20:59:01

Local clock offset: 2.326 ms

Remote clock offset: 0.023 ms

Below is generated by plot.py at 2018-08-27 23:50:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.51 Mbit/s

95th percentile per-packet one-way delay: 31.308 ms

Loss rate: 0.01%

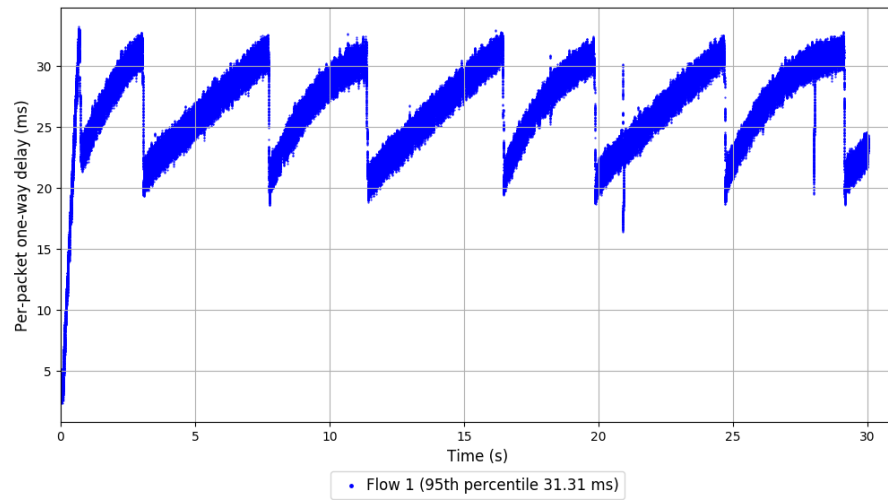
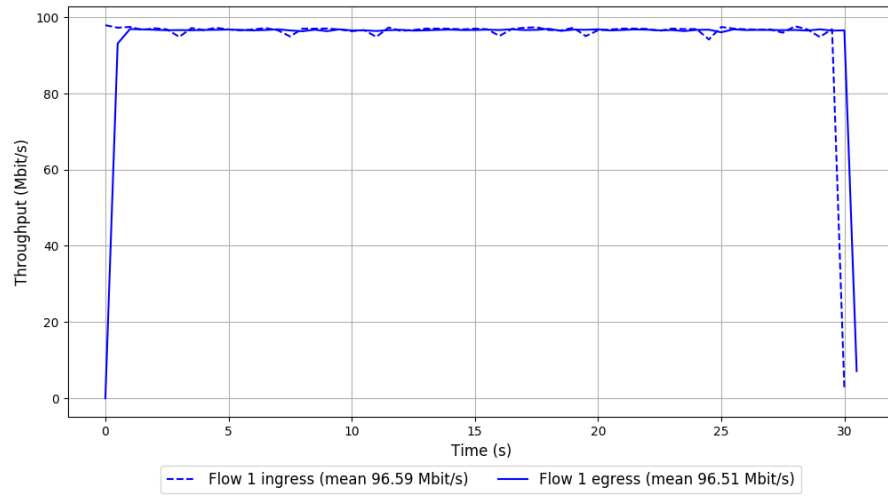
-- Flow 1:

Average throughput: 96.51 Mbit/s

95th percentile per-packet one-way delay: 31.308 ms

Loss rate: 0.01%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-08-27 21:17:16

End at: 2018-08-27 21:17:46

Local clock offset: 2.473 ms

Remote clock offset: 0.045 ms

Below is generated by plot.py at 2018-08-27 23:50:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.95 Mbit/s

95th percentile per-packet one-way delay: 29.333 ms

Loss rate: 0.01%

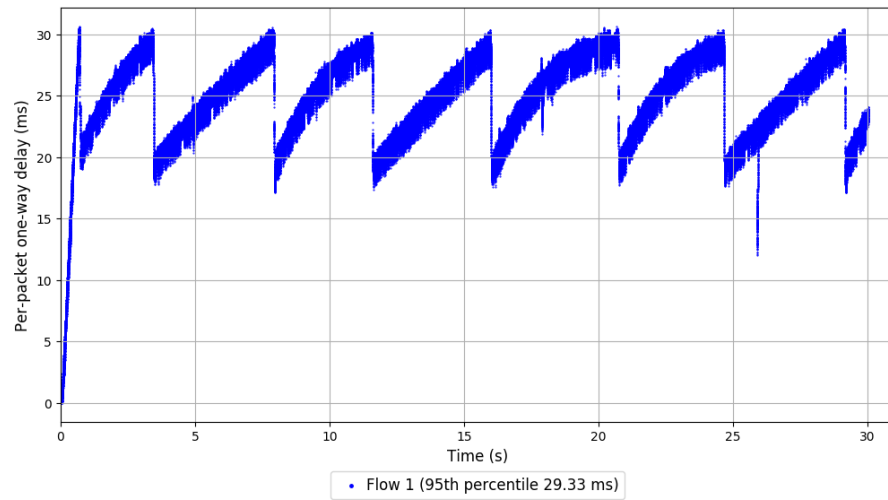
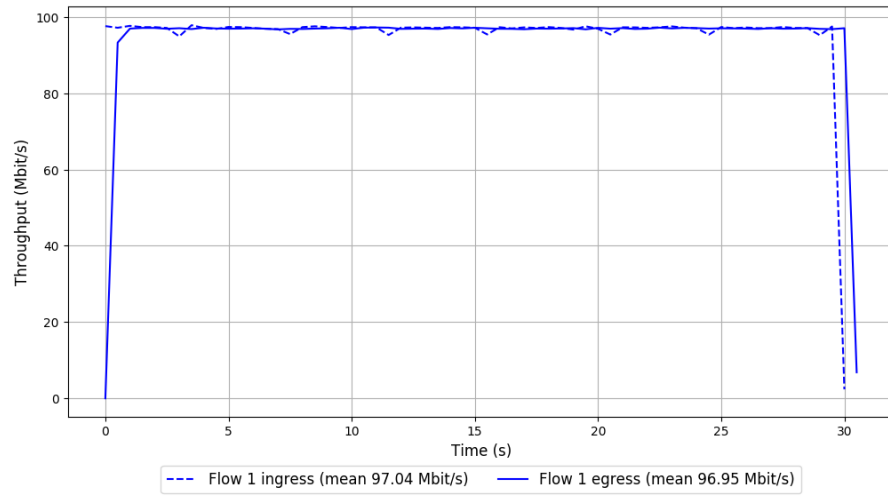
-- Flow 1:

Average throughput: 96.95 Mbit/s

95th percentile per-packet one-way delay: 29.333 ms

Loss rate: 0.01%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-08-27 21:36:06

End at: 2018-08-27 21:36:36

Local clock offset: 3.768 ms

Remote clock offset: 0.214 ms

Below is generated by plot.py at 2018-08-27 23:50:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.21 Mbit/s

95th percentile per-packet one-way delay: 31.033 ms

Loss rate: 0.02%

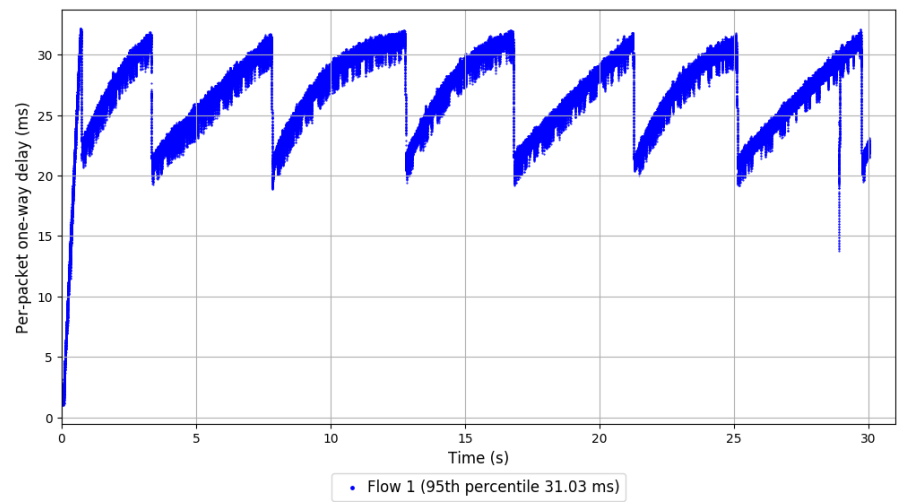
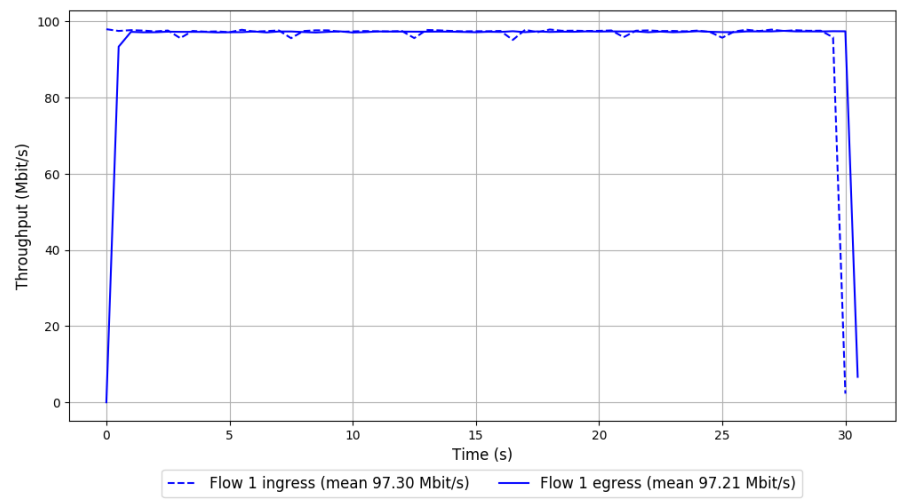
-- Flow 1:

Average throughput: 97.21 Mbit/s

95th percentile per-packet one-way delay: 31.033 ms

Loss rate: 0.02%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-08-27 21:54:50

End at: 2018-08-27 21:55:20

Local clock offset: 7.846 ms

Remote clock offset: 0.073 ms

Below is generated by plot.py at 2018-08-27 23:50:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.35 Mbit/s

95th percentile per-packet one-way delay: 32.473 ms

Loss rate: 0.01%

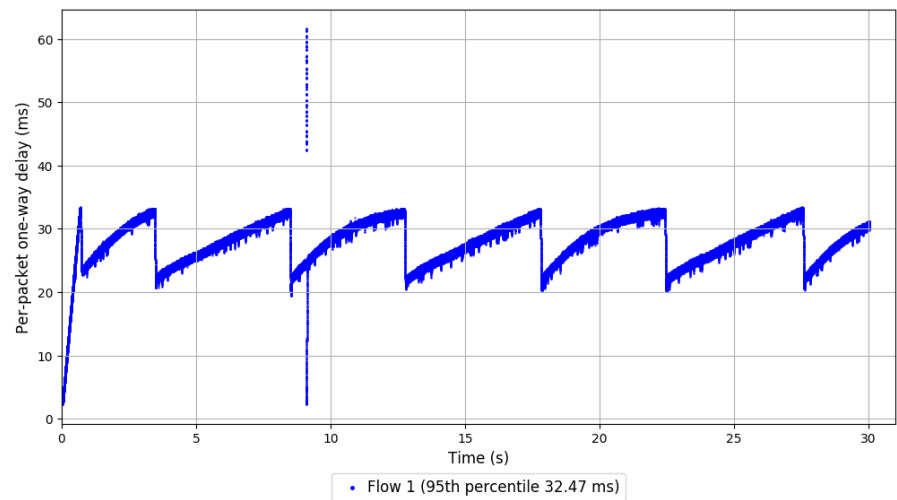
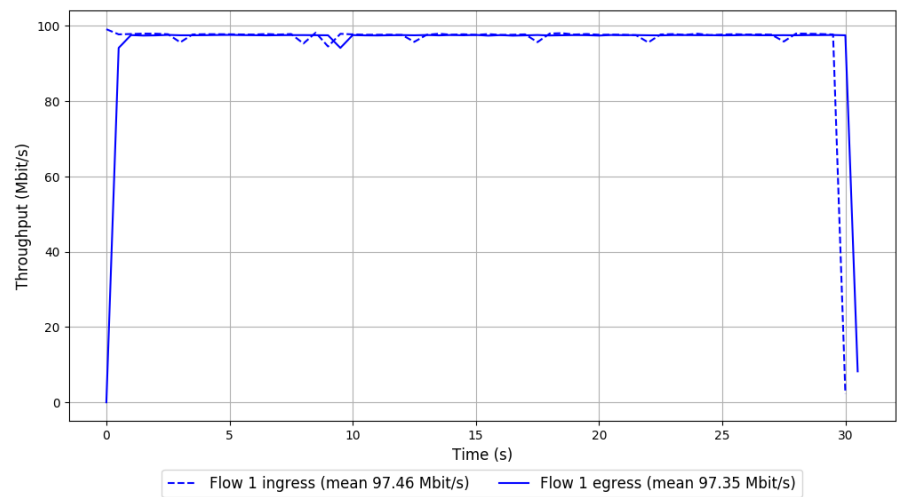
-- Flow 1:

Average throughput: 97.35 Mbit/s

95th percentile per-packet one-way delay: 32.473 ms

Loss rate: 0.01%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-08-27 22:13:35

End at: 2018-08-27 22:14:05

Local clock offset: 5.242 ms

Remote clock offset: 0.098 ms

Below is generated by plot.py at 2018-08-27 23:50:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.40 Mbit/s

95th percentile per-packet one-way delay: 30.888 ms

Loss rate: 0.01%

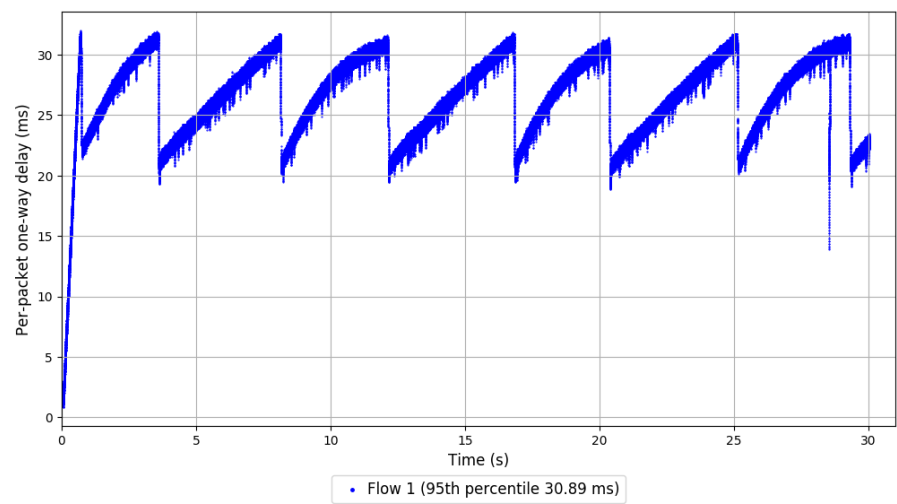
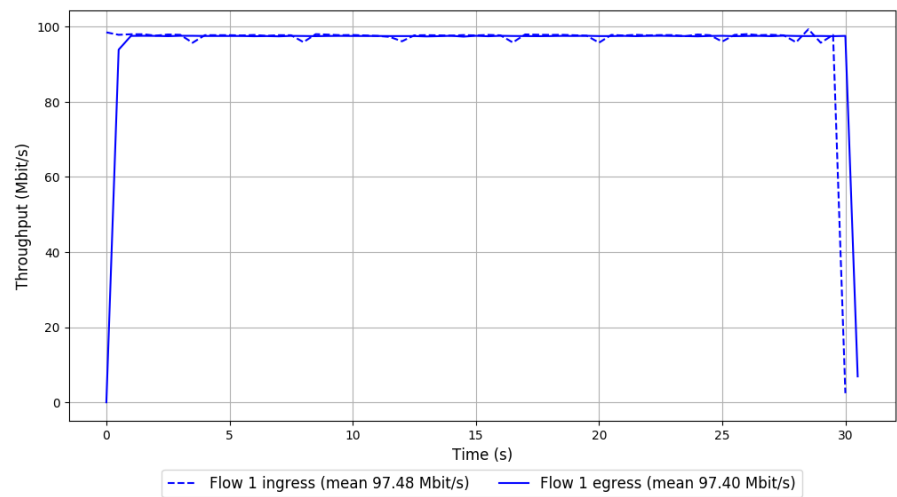
-- Flow 1:

Average throughput: 97.40 Mbit/s

95th percentile per-packet one-way delay: 30.888 ms

Loss rate: 0.01%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-08-27 22:32:21

End at: 2018-08-27 22:32:51

Local clock offset: 5.223 ms

Remote clock offset: 0.043 ms

Below is generated by plot.py at 2018-08-27 23:51:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.40 Mbit/s

95th percentile per-packet one-way delay: 30.176 ms

Loss rate: 0.01%

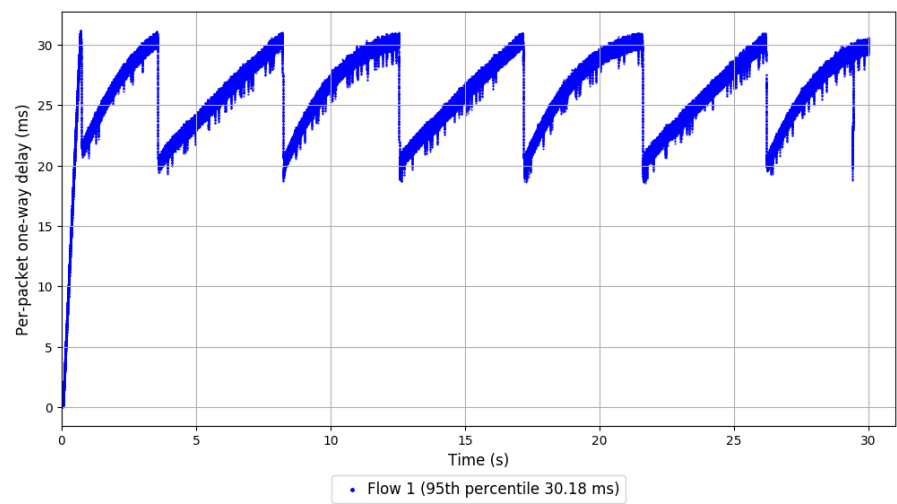
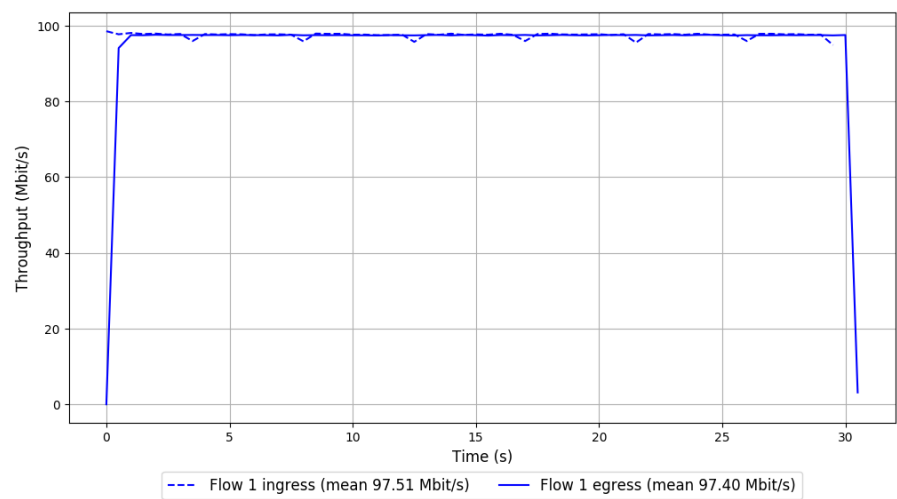
-- Flow 1:

Average throughput: 97.40 Mbit/s

95th percentile per-packet one-way delay: 30.176 ms

Loss rate: 0.01%

Run 7: Report of TCP Cubic — Data Link

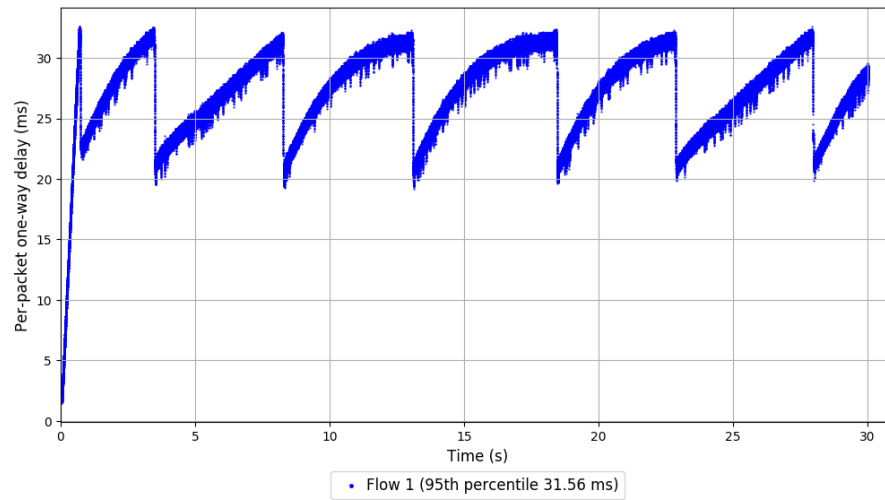
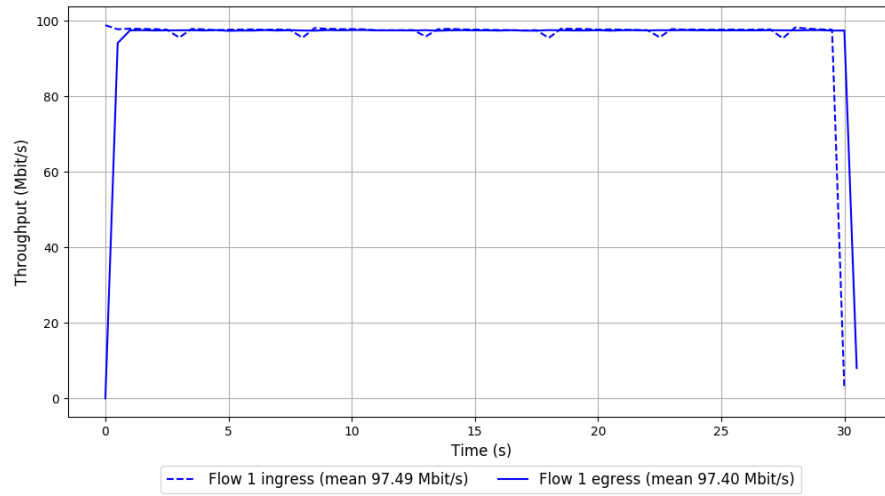


Run 8: Statistics of TCP Cubic

Start at: 2018-08-27 22:51:07
End at: 2018-08-27 22:51:37
Local clock offset: 4.905 ms
Remote clock offset: -0.041 ms

Below is generated by plot.py at 2018-08-27 23:51:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.40 Mbit/s
95th percentile per-packet one-way delay: 31.559 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.40 Mbit/s
95th percentile per-packet one-way delay: 31.559 ms
Loss rate: 0.01%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-08-27 23:09:51

End at: 2018-08-27 23:10:21

Local clock offset: 0.332 ms

Remote clock offset: 0.039 ms

Below is generated by plot.py at 2018-08-27 23:51:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.43 Mbit/s

95th percentile per-packet one-way delay: 30.803 ms

Loss rate: 0.01%

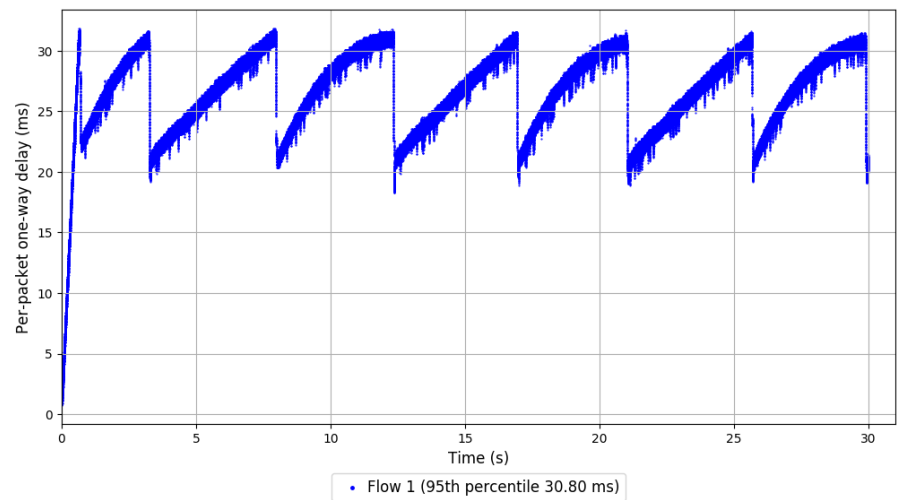
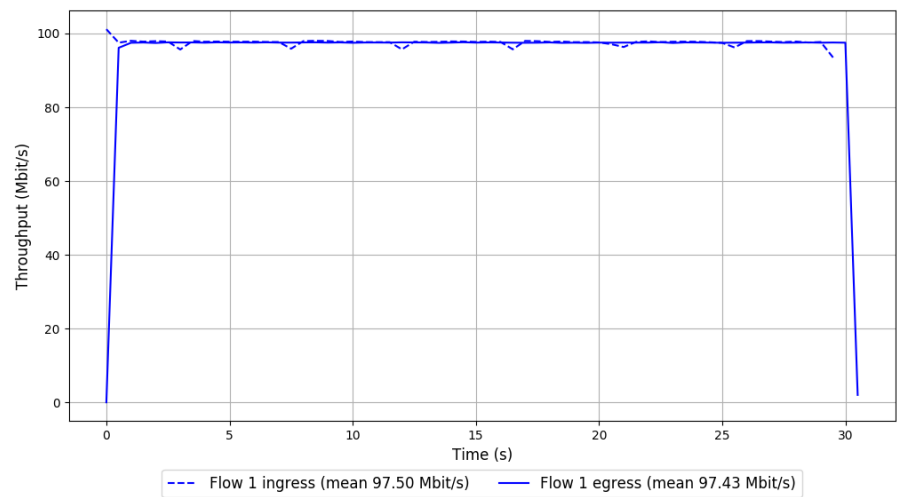
-- Flow 1:

Average throughput: 97.43 Mbit/s

95th percentile per-packet one-way delay: 30.803 ms

Loss rate: 0.01%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-08-27 23:28:42

End at: 2018-08-27 23:29:12

Local clock offset: -3.024 ms

Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-08-27 23:51:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.38 Mbit/s

95th percentile per-packet one-way delay: 30.936 ms

Loss rate: 0.01%

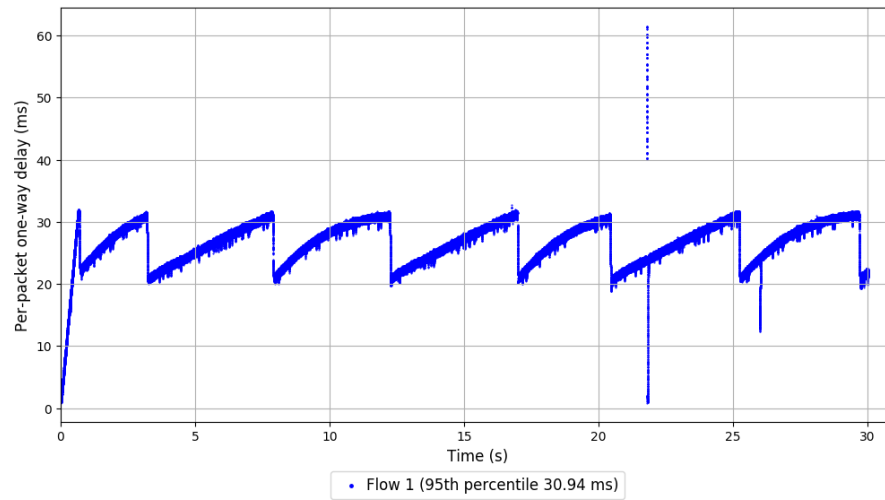
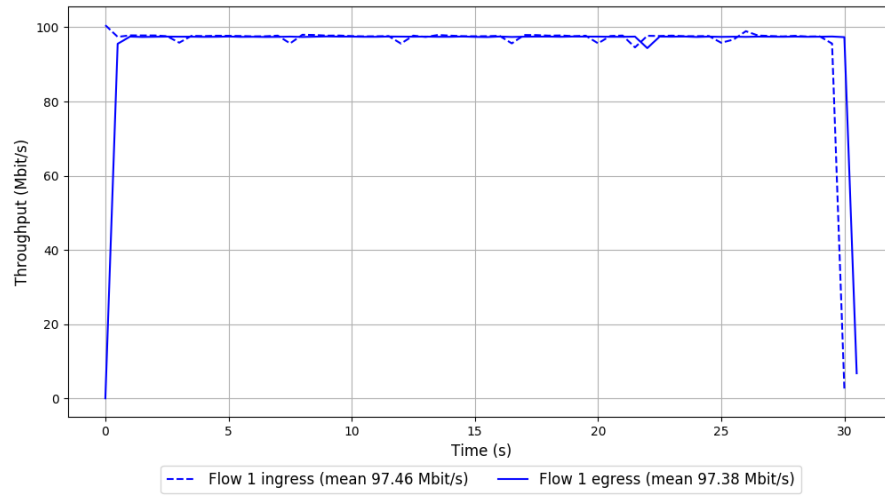
-- Flow 1:

Average throughput: 97.38 Mbit/s

95th percentile per-packet one-way delay: 30.936 ms

Loss rate: 0.01%

Run 10: Report of TCP Cubic — Data Link

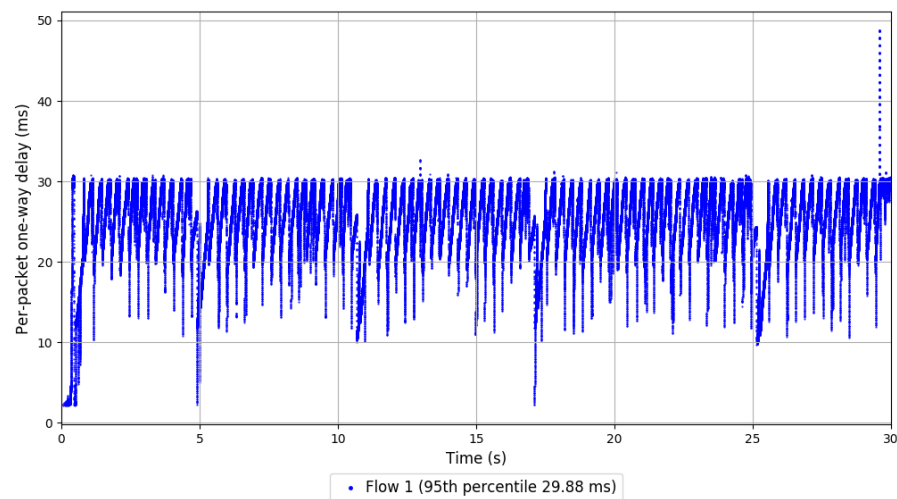
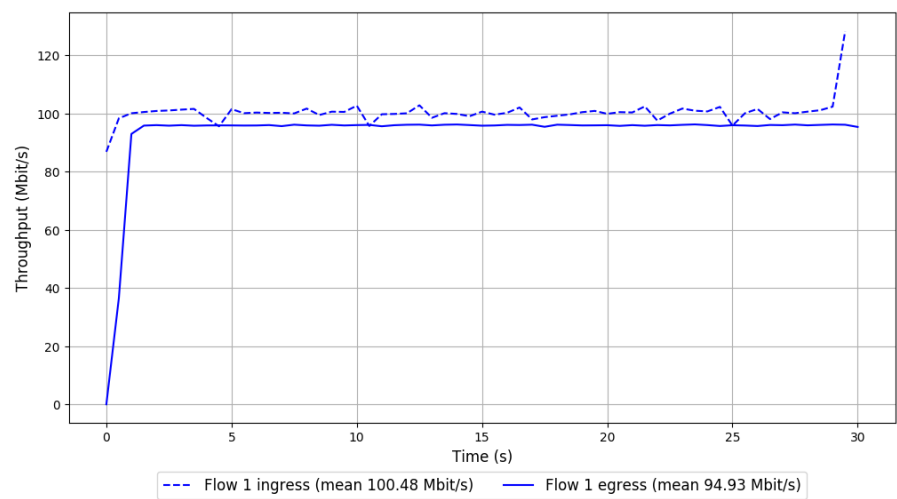


Run 1: Statistics of FillP

Start at: 2018-08-27 20:53:01
End at: 2018-08-27 20:53:31
Local clock offset: 2.185 ms
Remote clock offset: -0.092 ms

Below is generated by plot.py at 2018-08-27 23:52:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.93 Mbit/s
95th percentile per-packet one-way delay: 29.876 ms
Loss rate: 5.44%
-- Flow 1:
Average throughput: 94.93 Mbit/s
95th percentile per-packet one-way delay: 29.876 ms
Loss rate: 5.44%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-08-27 21:11:46

End at: 2018-08-27 21:12:16

Local clock offset: 1.748 ms

Remote clock offset: 0.084 ms

Below is generated by plot.py at 2018-08-27 23:52:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.17 Mbit/s

95th percentile per-packet one-way delay: 29.956 ms

Loss rate: 4.51%

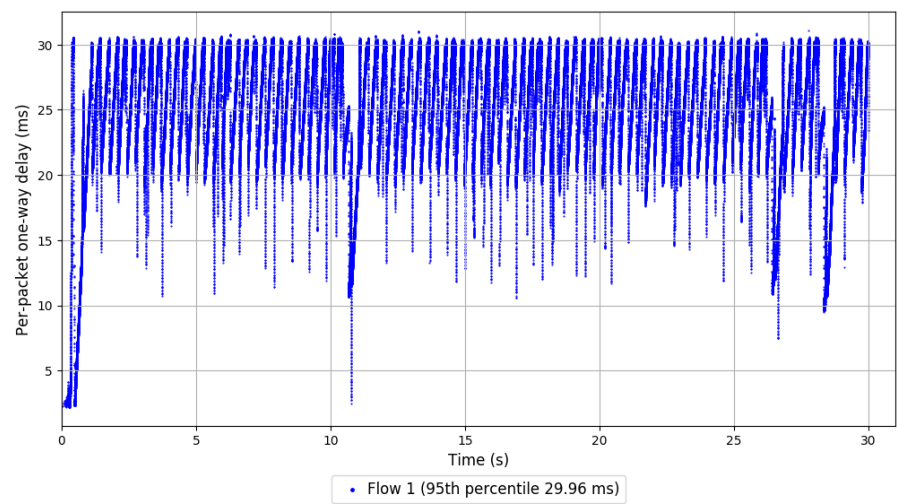
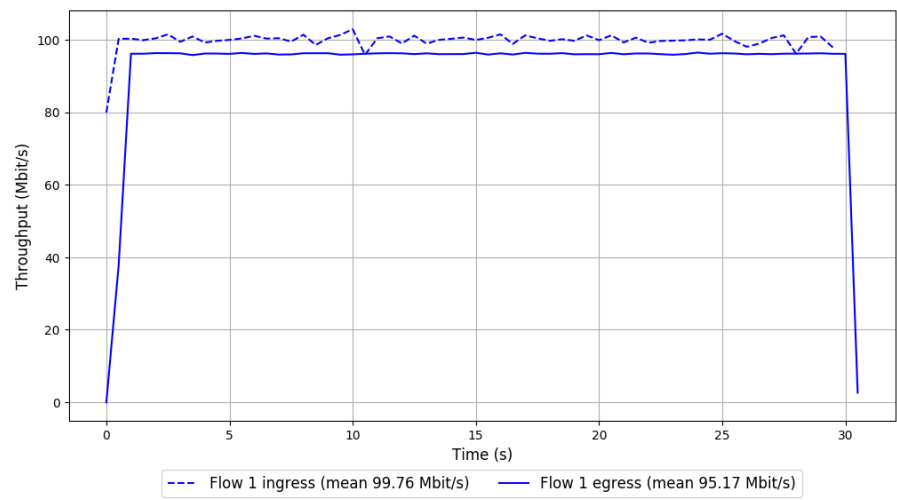
-- Flow 1:

Average throughput: 95.17 Mbit/s

95th percentile per-packet one-way delay: 29.956 ms

Loss rate: 4.51%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-08-27 21:30:37

End at: 2018-08-27 21:31:07

Local clock offset: 1.612 ms

Remote clock offset: 0.203 ms

Below is generated by plot.py at 2018-08-27 23:52:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.35 Mbit/s

95th percentile per-packet one-way delay: 28.534 ms

Loss rate: 4.87%

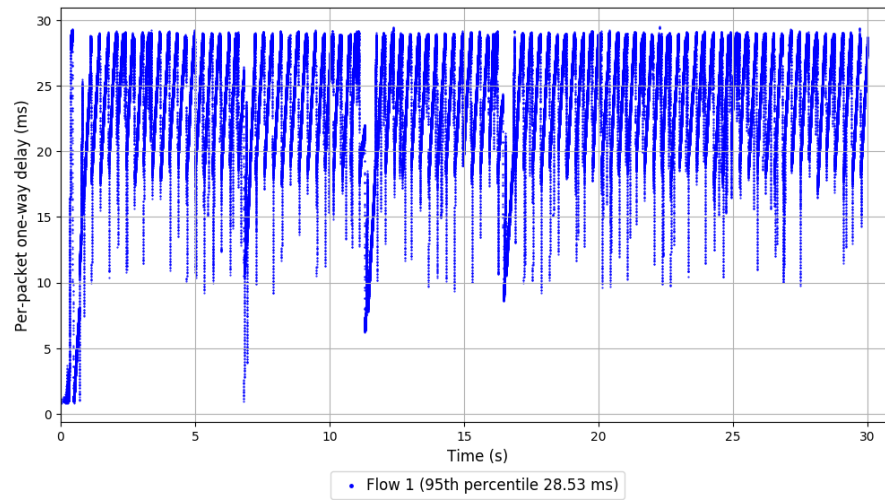
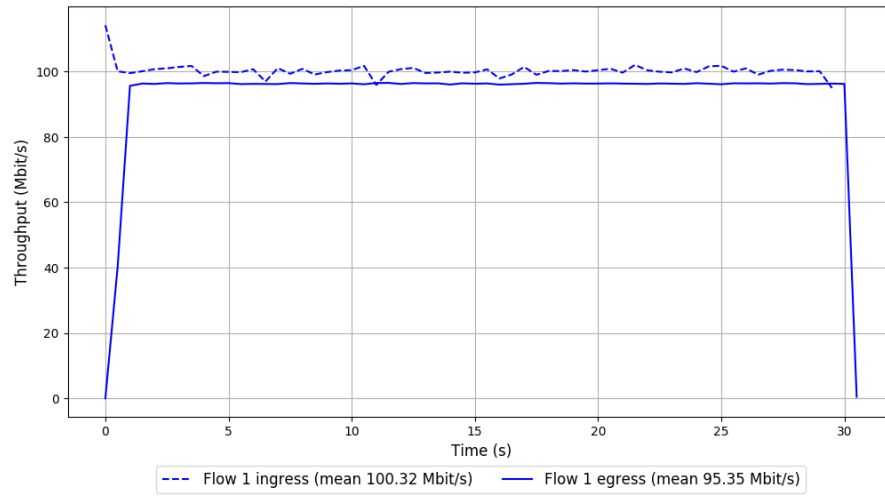
-- Flow 1:

Average throughput: 95.35 Mbit/s

95th percentile per-packet one-way delay: 28.534 ms

Loss rate: 4.87%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-08-27 21:49:21

End at: 2018-08-27 21:49:51

Local clock offset: 7.878 ms

Remote clock offset: 0.178 ms

Below is generated by plot.py at 2018-08-27 23:52:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.85 Mbit/s

95th percentile per-packet one-way delay: 29.260 ms

Loss rate: 4.08%

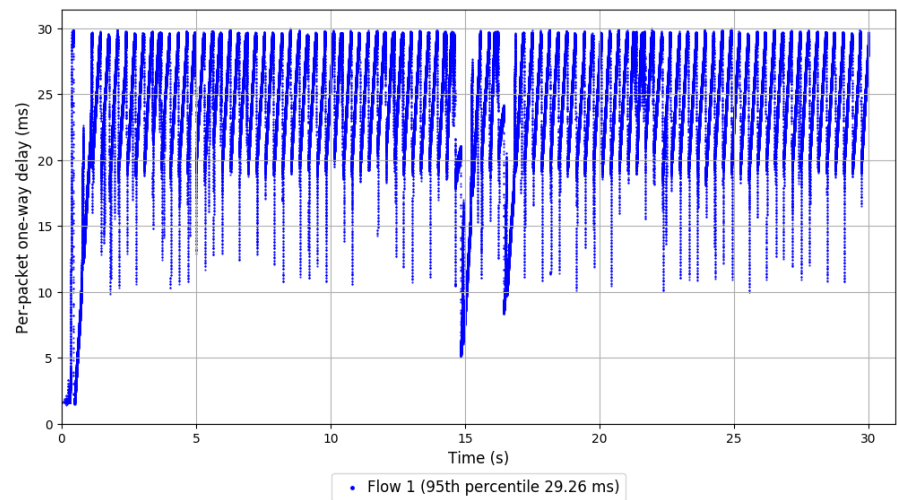
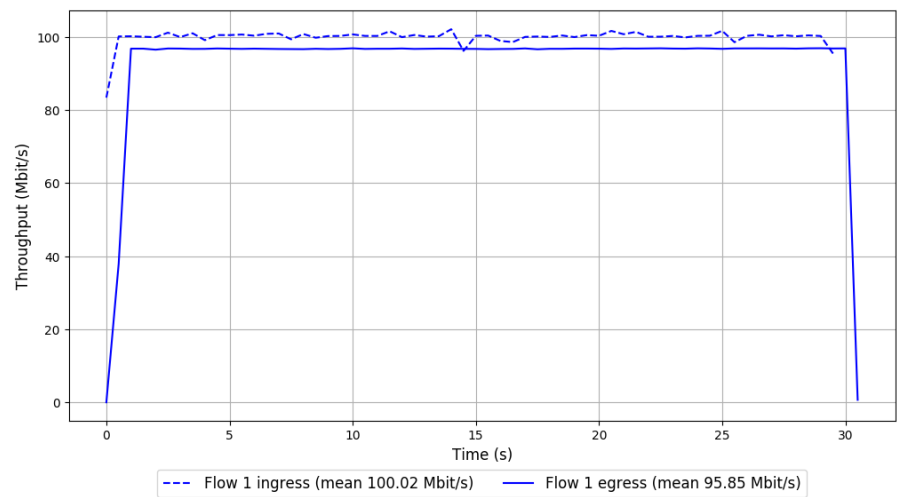
-- Flow 1:

Average throughput: 95.85 Mbit/s

95th percentile per-packet one-way delay: 29.260 ms

Loss rate: 4.08%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-08-27 22:08:06

End at: 2018-08-27 22:08:36

Local clock offset: 6.344 ms

Remote clock offset: 0.029 ms

Below is generated by plot.py at 2018-08-27 23:53:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.97 Mbit/s

95th percentile per-packet one-way delay: 28.289 ms

Loss rate: 4.59%

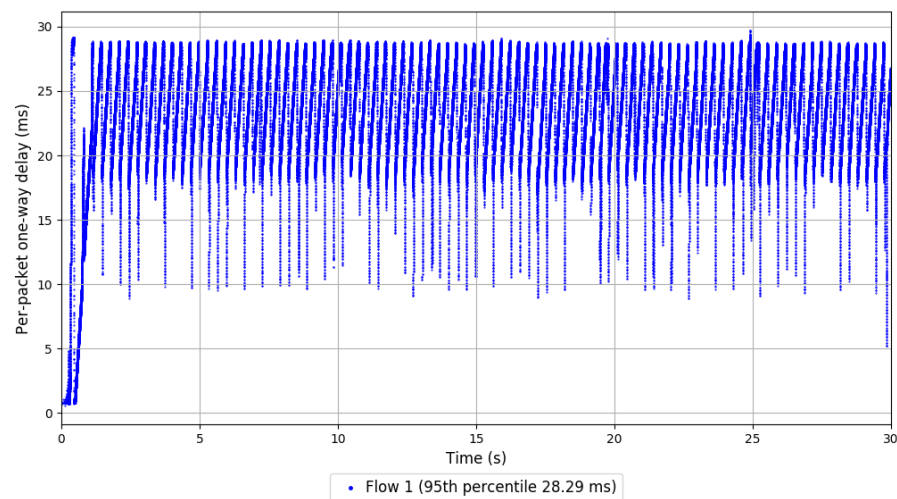
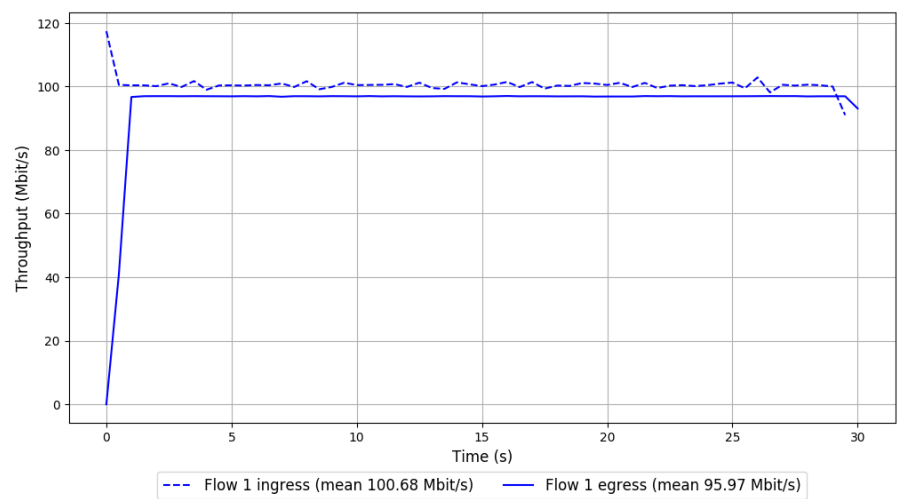
-- Flow 1:

Average throughput: 95.97 Mbit/s

95th percentile per-packet one-way delay: 28.289 ms

Loss rate: 4.59%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-08-27 22:26:52

End at: 2018-08-27 22:27:22

Local clock offset: 3.745 ms

Remote clock offset: 0.063 ms

Below is generated by plot.py at 2018-08-27 23:53:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.96 Mbit/s

95th percentile per-packet one-way delay: 29.309 ms

Loss rate: 4.03%

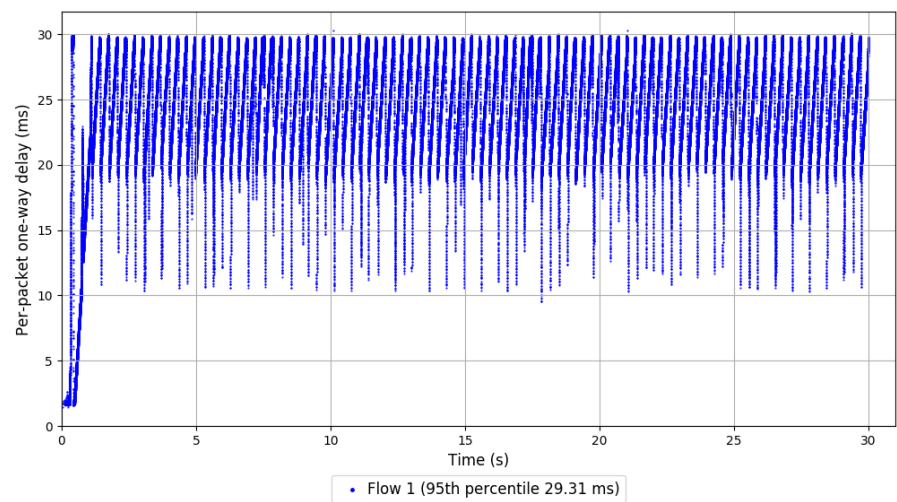
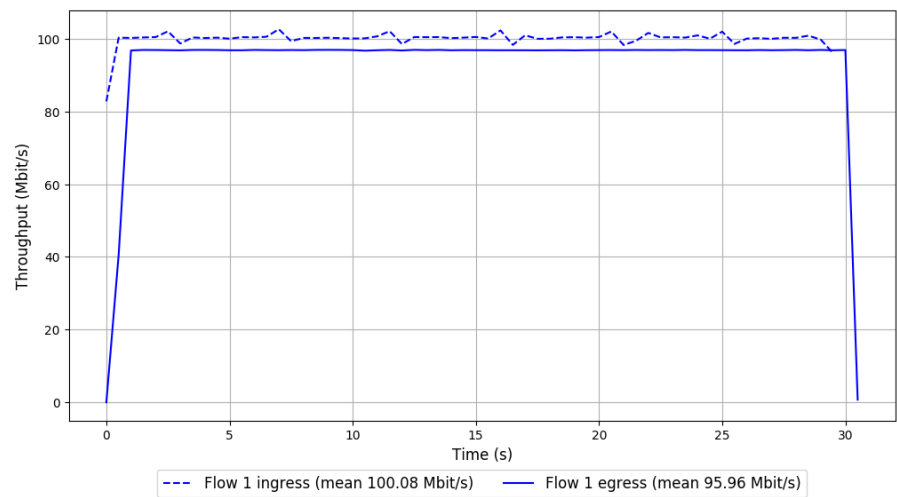
-- Flow 1:

Average throughput: 95.96 Mbit/s

95th percentile per-packet one-way delay: 29.309 ms

Loss rate: 4.03%

Run 6: Report of FillP — Data Link

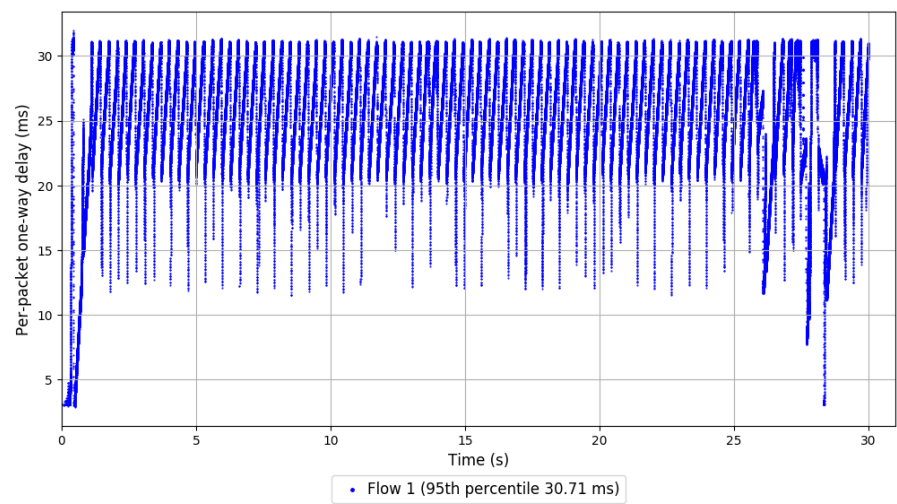
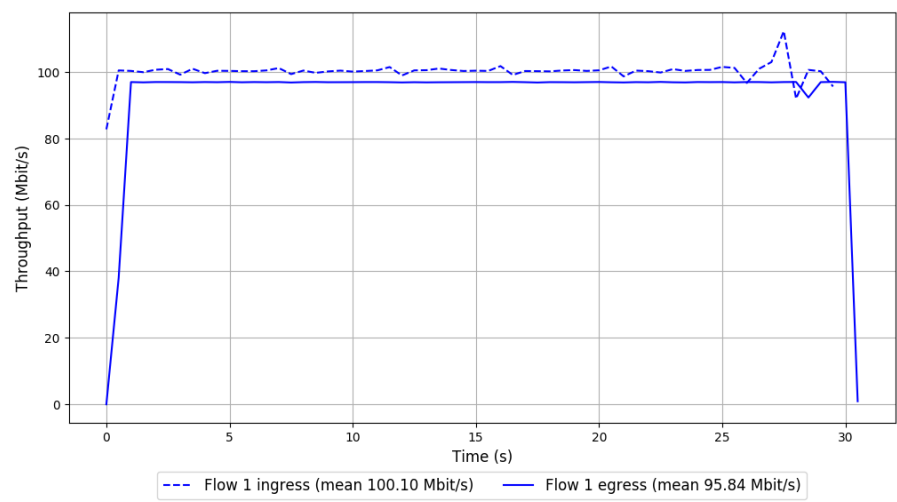


Run 7: Statistics of FillP

Start at: 2018-08-27 22:45:38
End at: 2018-08-27 22:46:08
Local clock offset: 3.365 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-08-27 23:53:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.84 Mbit/s
95th percentile per-packet one-way delay: 30.707 ms
Loss rate: 4.17%
-- Flow 1:
Average throughput: 95.84 Mbit/s
95th percentile per-packet one-way delay: 30.707 ms
Loss rate: 4.17%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-08-27 23:04:22

End at: 2018-08-27 23:04:52

Local clock offset: 2.727 ms

Remote clock offset: 0.053 ms

Below is generated by plot.py at 2018-08-27 23:53:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.91 Mbit/s

95th percentile per-packet one-way delay: 28.173 ms

Loss rate: 3.97%

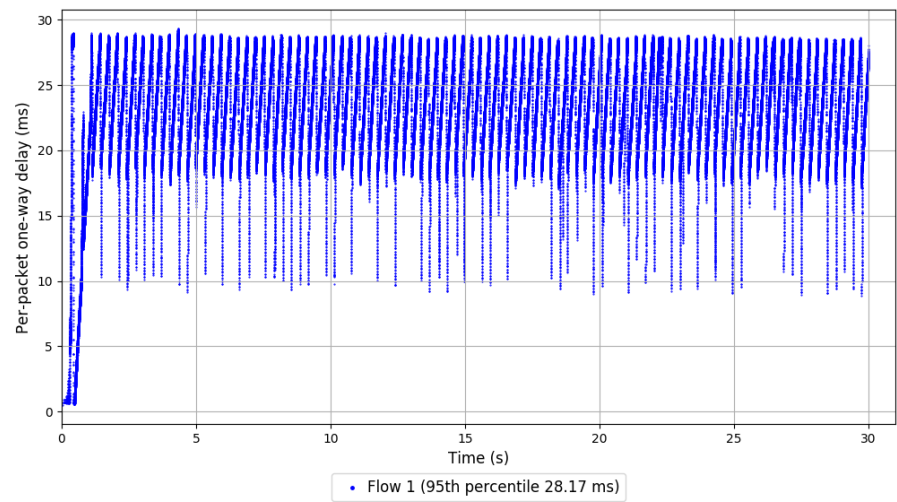
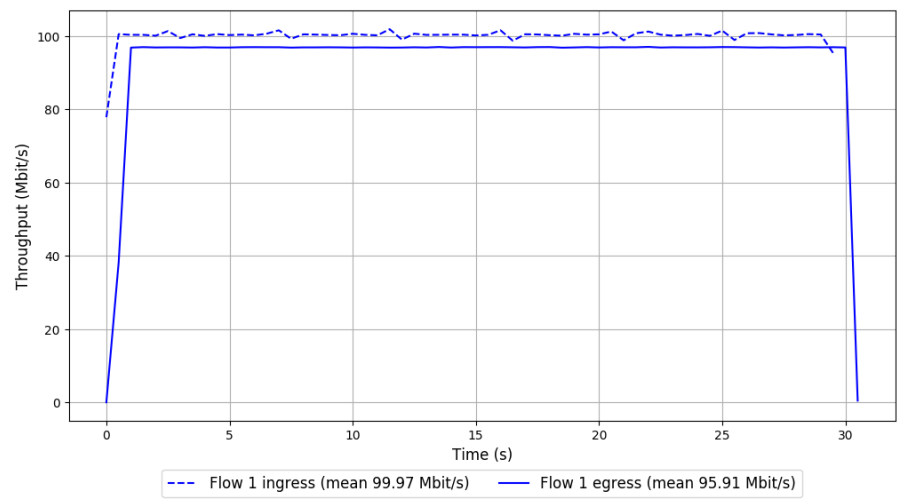
-- Flow 1:

Average throughput: 95.91 Mbit/s

95th percentile per-packet one-way delay: 28.173 ms

Loss rate: 3.97%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-08-27 23:23:12

End at: 2018-08-27 23:23:43

Local clock offset: -2.416 ms

Remote clock offset: 0.041 ms

Below is generated by plot.py at 2018-08-27 23:53:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.92 Mbit/s

95th percentile per-packet one-way delay: 28.530 ms

Loss rate: 4.29%

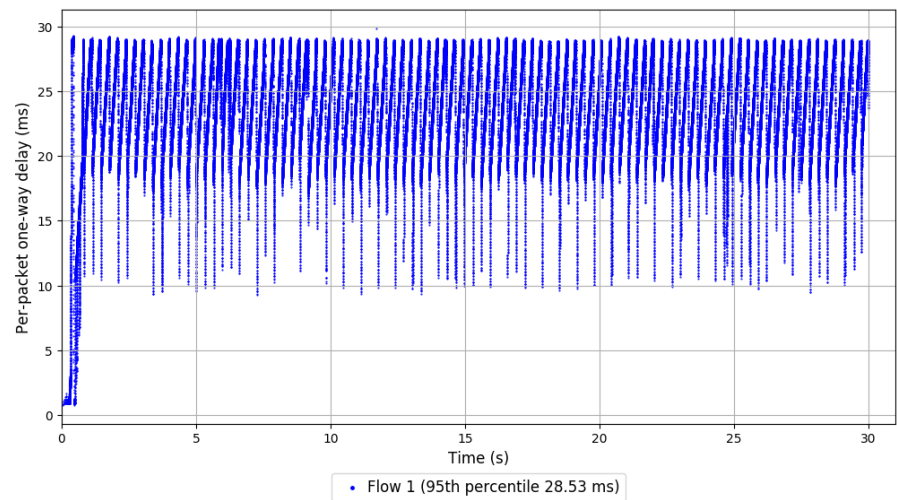
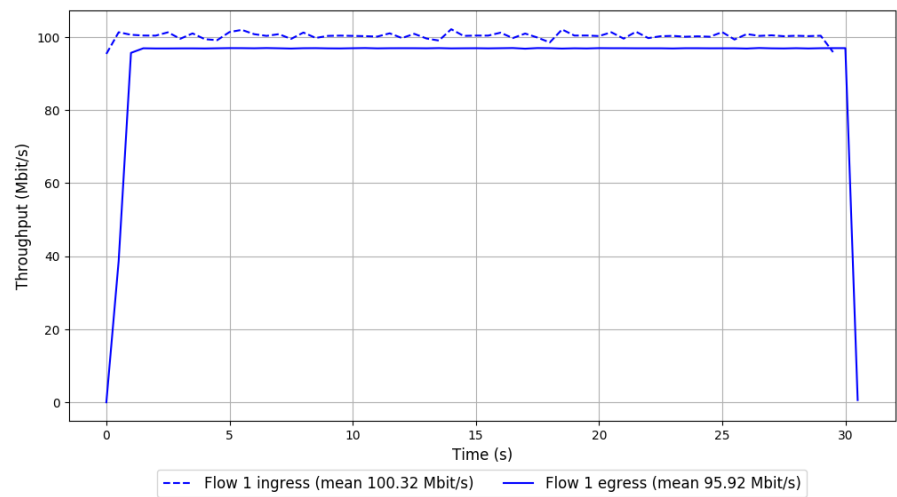
-- Flow 1:

Average throughput: 95.92 Mbit/s

95th percentile per-packet one-way delay: 28.530 ms

Loss rate: 4.29%

Run 9: Report of FillP — Data Link

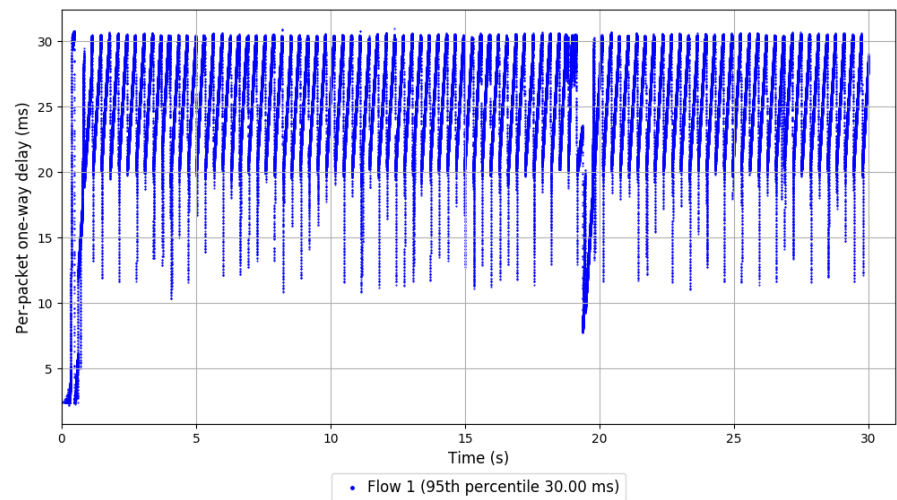
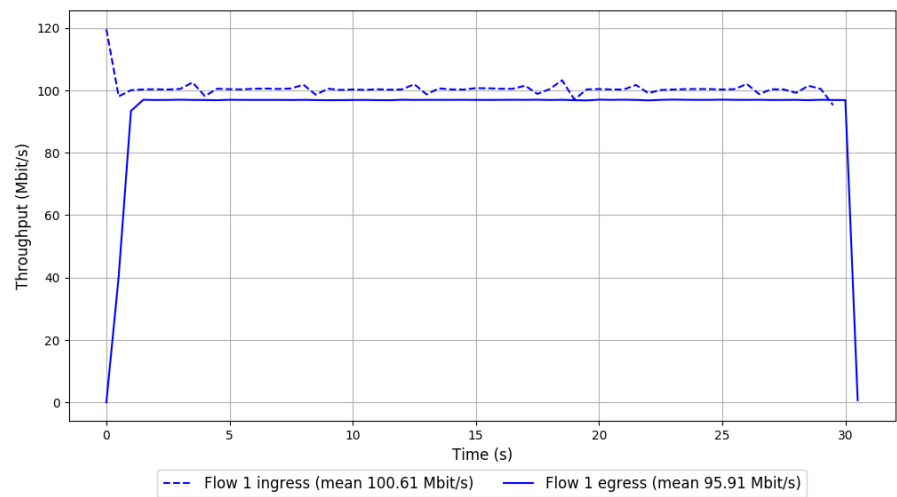


Run 10: Statistics of FillP

Start at: 2018-08-27 23:41:57
End at: 2018-08-27 23:42:27
Local clock offset: -2.4 ms
Remote clock offset: -0.007 ms

Below is generated by plot.py at 2018-08-27 23:53:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.91 Mbit/s
95th percentile per-packet one-way delay: 30.000 ms
Loss rate: 4.59%
-- Flow 1:
Average throughput: 95.91 Mbit/s
95th percentile per-packet one-way delay: 30.000 ms
Loss rate: 4.59%

Run 10: Report of FillP — Data Link

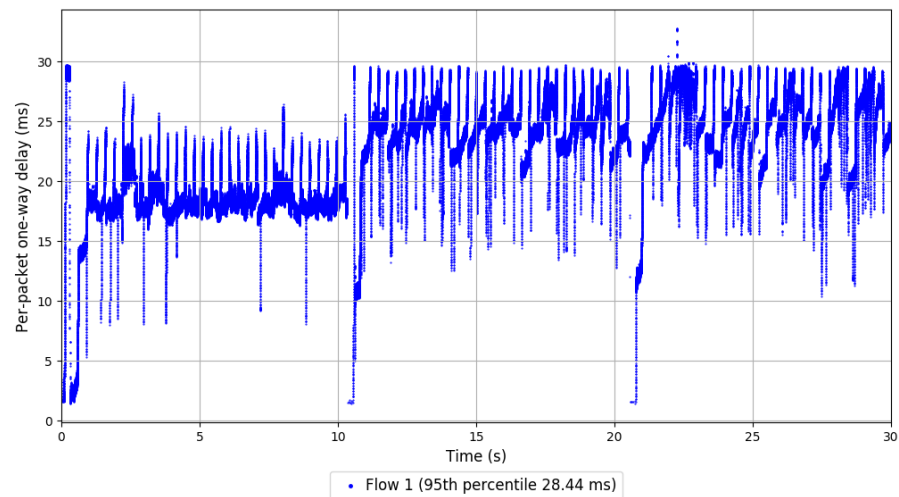
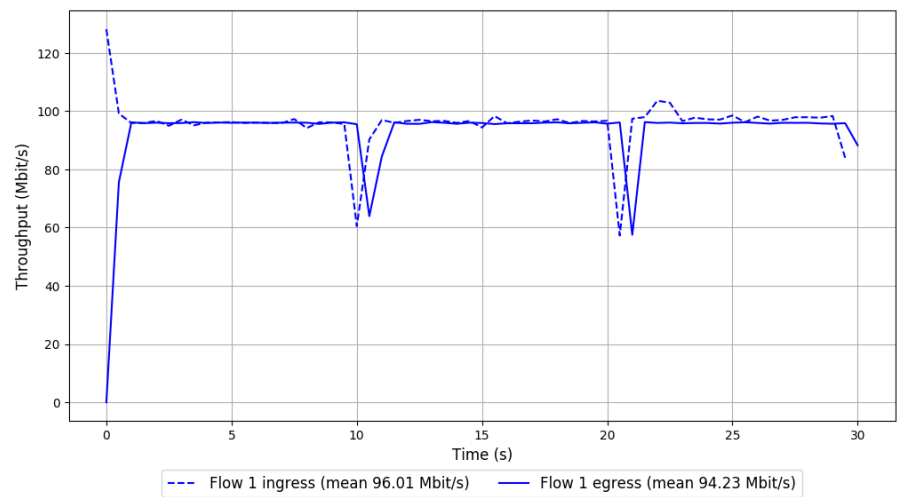


Run 1: Statistics of FillP-Sheep

Start at: 2018-08-27 20:48:40
End at: 2018-08-27 20:49:10
Local clock offset: 2.861 ms
Remote clock offset: -0.059 ms

Below is generated by plot.py at 2018-08-27 23:53:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.23 Mbit/s
95th percentile per-packet one-way delay: 28.441 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 94.23 Mbit/s
95th percentile per-packet one-way delay: 28.441 ms
Loss rate: 1.78%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-08-27 21:07:21

End at: 2018-08-27 21:07:52

Local clock offset: 1.995 ms

Remote clock offset: 0.069 ms

Below is generated by plot.py at 2018-08-27 23:53:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.23 Mbit/s

95th percentile per-packet one-way delay: 28.543 ms

Loss rate: 1.60%

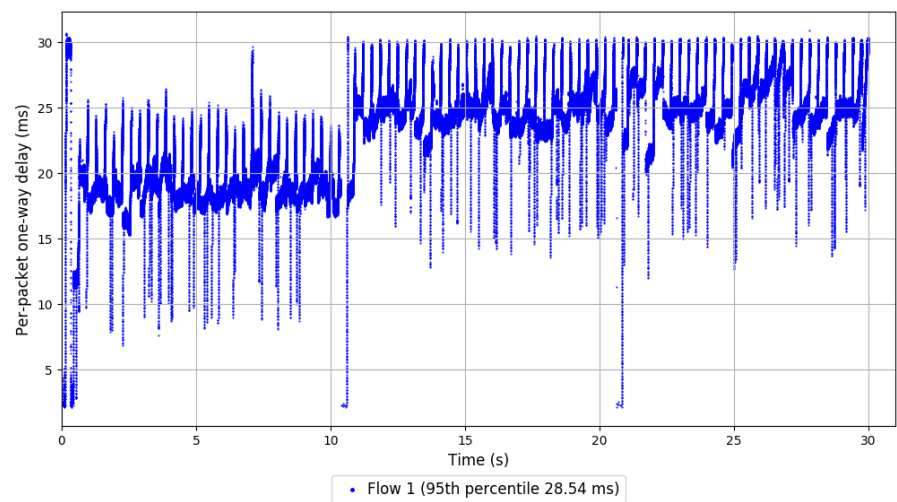
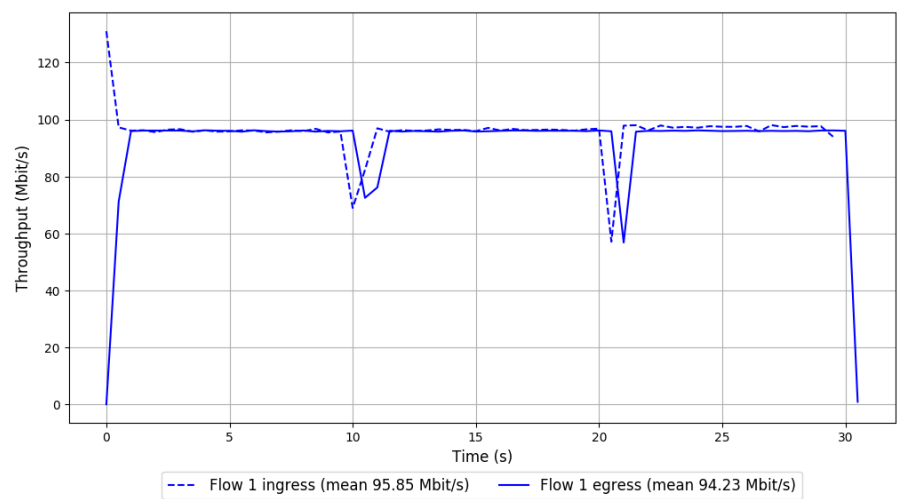
-- Flow 1:

Average throughput: 94.23 Mbit/s

95th percentile per-packet one-way delay: 28.543 ms

Loss rate: 1.60%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-08-27 21:26:12

End at: 2018-08-27 21:26:42

Local clock offset: 1.654 ms

Remote clock offset: 0.17 ms

Below is generated by plot.py at 2018-08-27 23:54:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.76 Mbit/s

95th percentile per-packet one-way delay: 27.001 ms

Loss rate: 1.37%

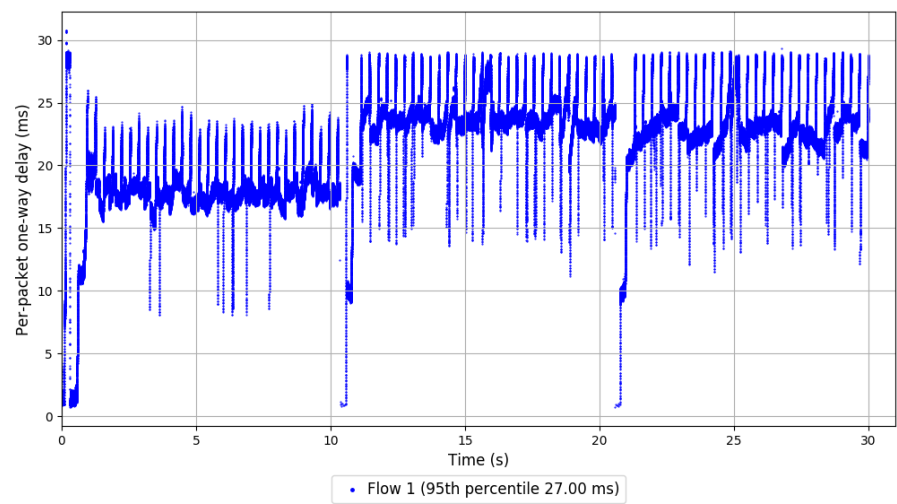
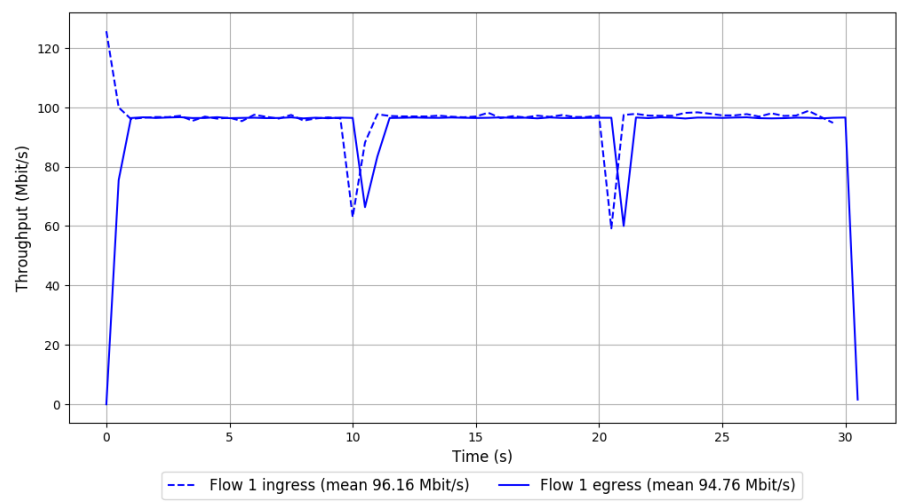
-- Flow 1:

Average throughput: 94.76 Mbit/s

95th percentile per-packet one-way delay: 27.001 ms

Loss rate: 1.37%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-08-27 21:44:57

End at: 2018-08-27 21:45:27

Local clock offset: 6.277 ms

Remote clock offset: 0.224 ms

Below is generated by plot.py at 2018-08-27 23:54:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.23 Mbit/s

95th percentile per-packet one-way delay: 28.027 ms

Loss rate: 1.15%

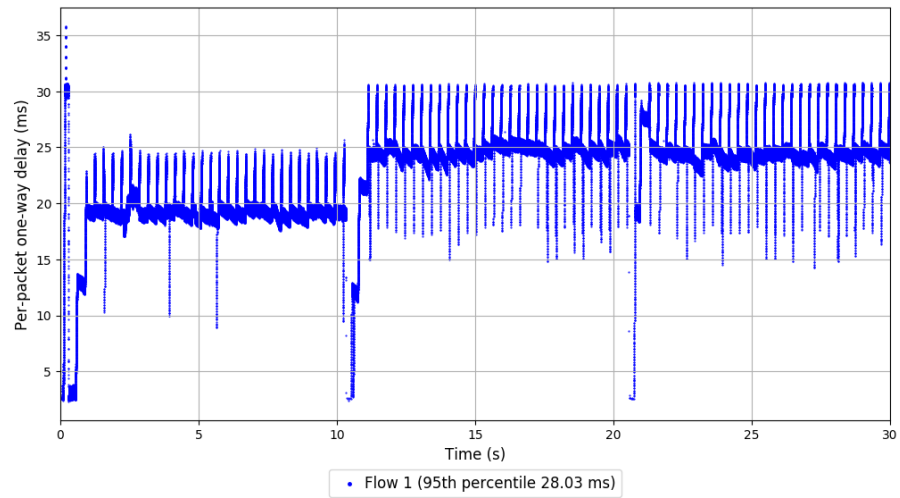
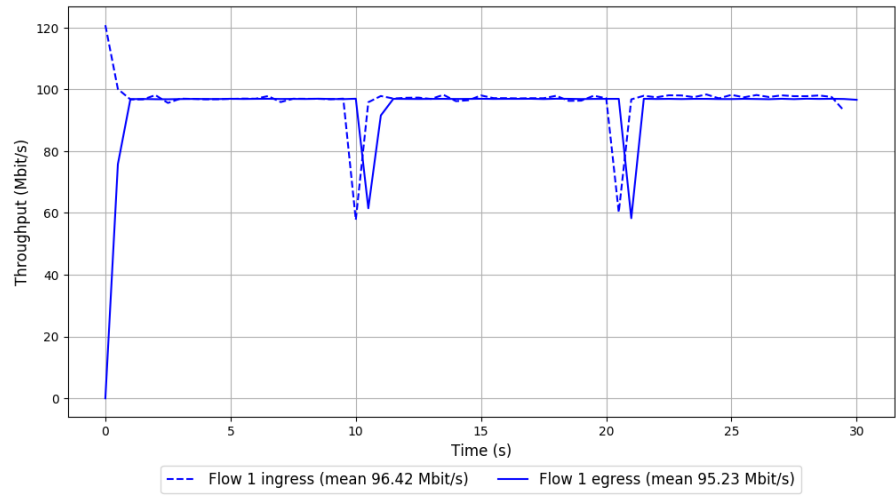
-- Flow 1:

Average throughput: 95.23 Mbit/s

95th percentile per-packet one-way delay: 28.027 ms

Loss rate: 1.15%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-08-27 22:03:42

End at: 2018-08-27 22:04:12

Local clock offset: 6.953 ms

Remote clock offset: 0.059 ms

Below is generated by plot.py at 2018-08-27 23:54:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.19 Mbit/s

95th percentile per-packet one-way delay: 26.942 ms

Loss rate: 1.26%

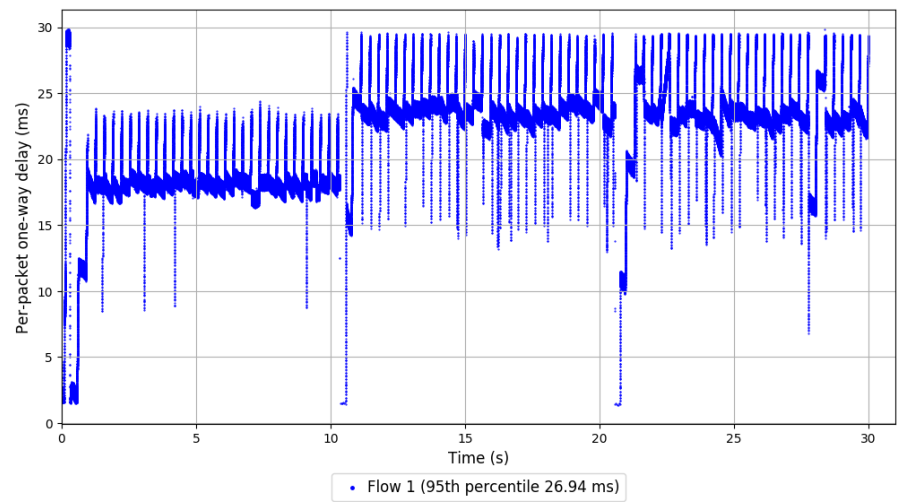
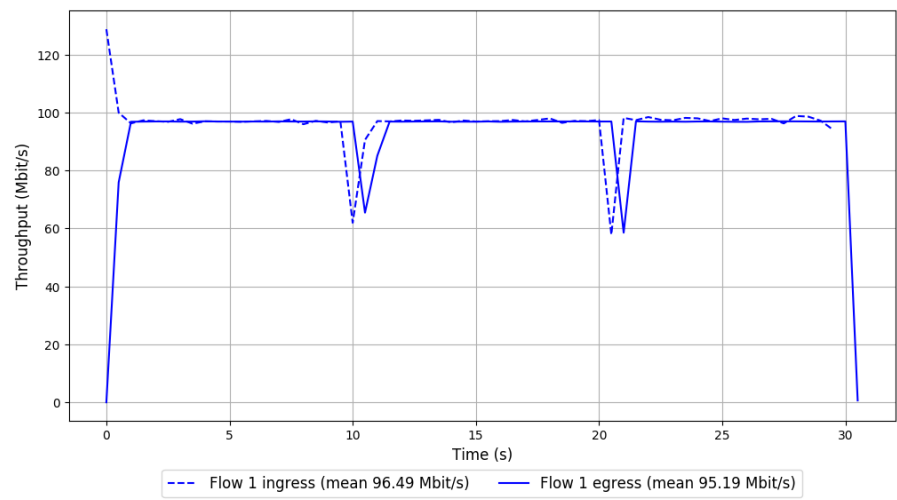
-- Flow 1:

Average throughput: 95.19 Mbit/s

95th percentile per-packet one-way delay: 26.942 ms

Loss rate: 1.26%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-08-27 22:22:28

End at: 2018-08-27 22:22:58

Local clock offset: 4.578 ms

Remote clock offset: 0.082 ms

Below is generated by plot.py at 2018-08-27 23:54:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.20 Mbit/s

95th percentile per-packet one-way delay: 28.778 ms

Loss rate: 1.55%

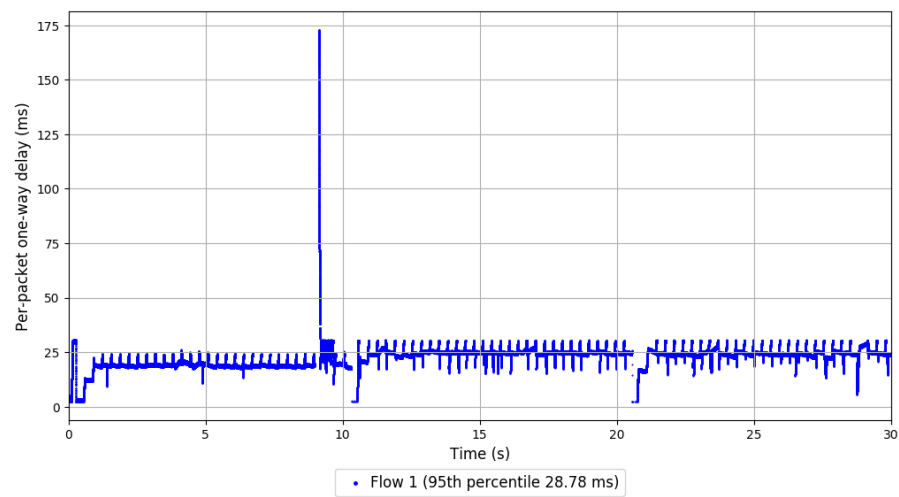
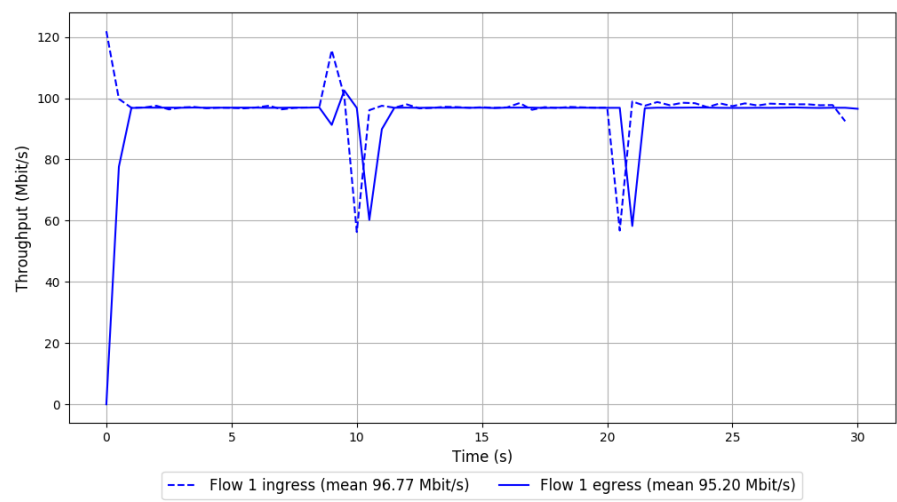
-- Flow 1:

Average throughput: 95.20 Mbit/s

95th percentile per-packet one-way delay: 28.778 ms

Loss rate: 1.55%

Run 6: Report of FillP-Sheep — Data Link

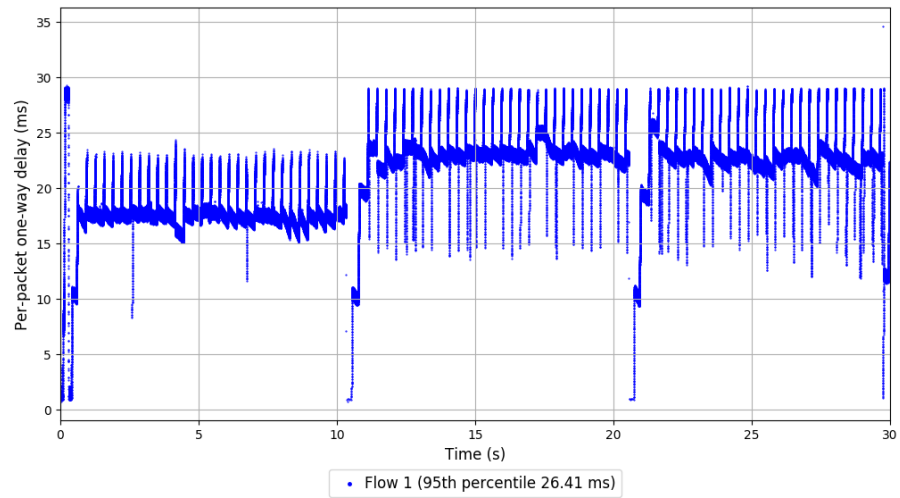
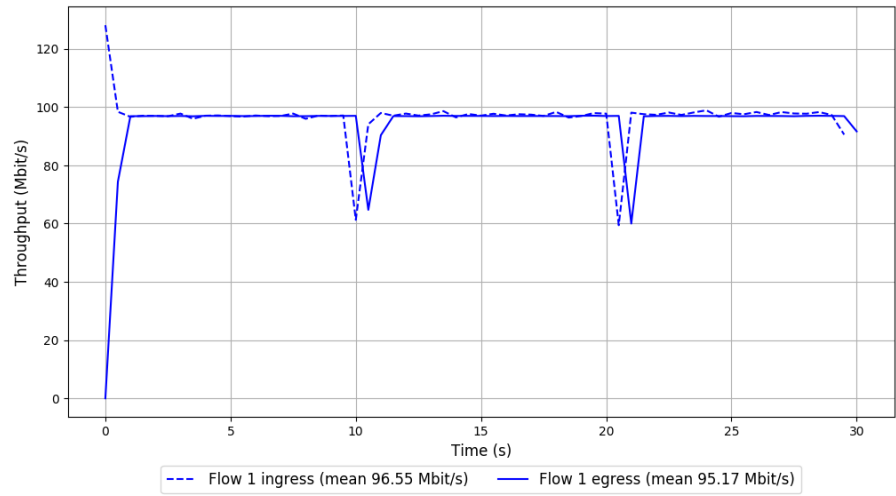


Run 7: Statistics of FillP-Sheep

Start at: 2018-08-27 22:41:14
End at: 2018-08-27 22:41:44
Local clock offset: 4.214 ms
Remote clock offset: 0.054 ms

Below is generated by plot.py at 2018-08-27 23:55:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.17 Mbit/s
95th percentile per-packet one-way delay: 26.411 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 95.17 Mbit/s
95th percentile per-packet one-way delay: 26.411 ms
Loss rate: 1.35%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-08-27 22:59:58

End at: 2018-08-27 23:00:28

Local clock offset: 3.307 ms

Remote clock offset: 0.04 ms

Below is generated by plot.py at 2018-08-27 23:55:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.25 Mbit/s

95th percentile per-packet one-way delay: 28.902 ms

Loss rate: 1.29%

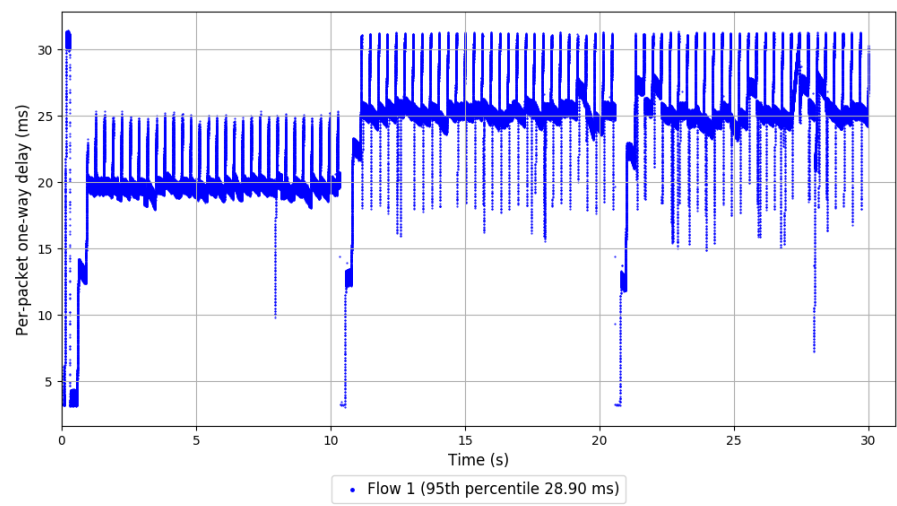
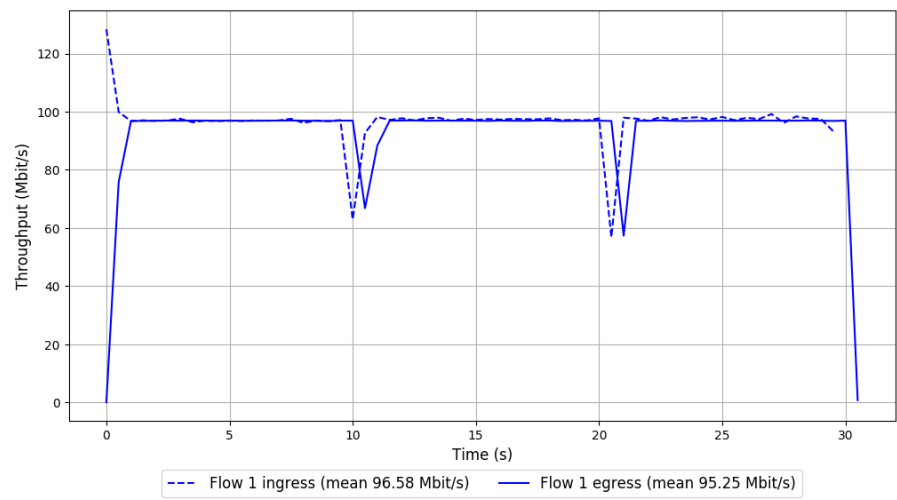
-- Flow 1:

Average throughput: 95.25 Mbit/s

95th percentile per-packet one-way delay: 28.902 ms

Loss rate: 1.29%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-08-27 23:18:48

End at: 2018-08-27 23:19:18

Local clock offset: -1.701 ms

Remote clock offset: 0.053 ms

Below is generated by plot.py at 2018-08-27 23:55:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.14 Mbit/s

95th percentile per-packet one-way delay: 26.383 ms

Loss rate: 1.28%

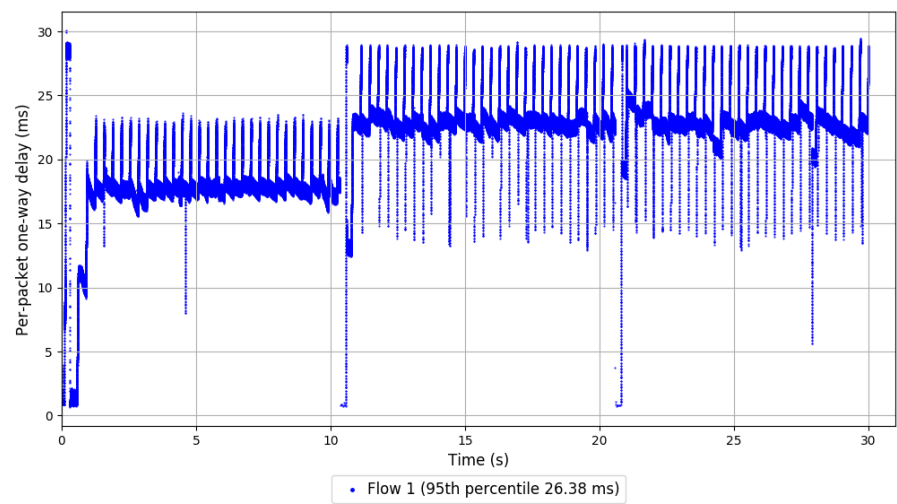
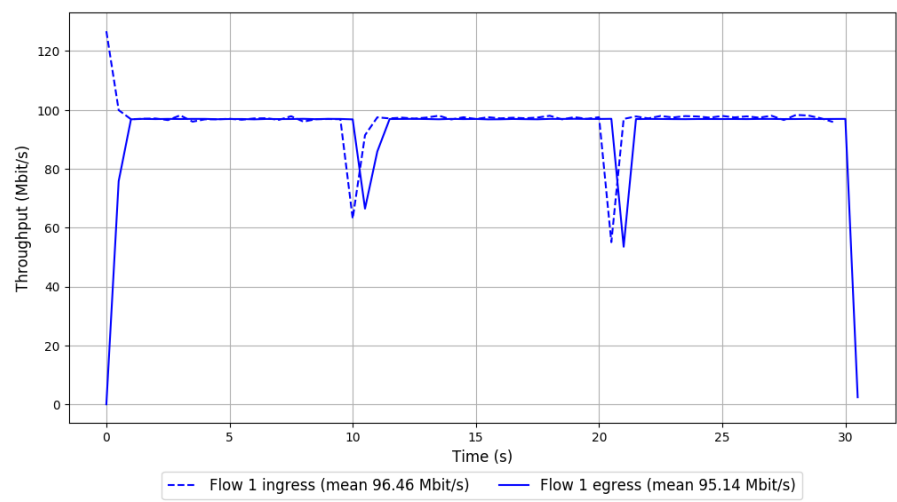
-- Flow 1:

Average throughput: 95.14 Mbit/s

95th percentile per-packet one-way delay: 26.383 ms

Loss rate: 1.28%

Run 9: Report of FillP-Sheep — Data Link

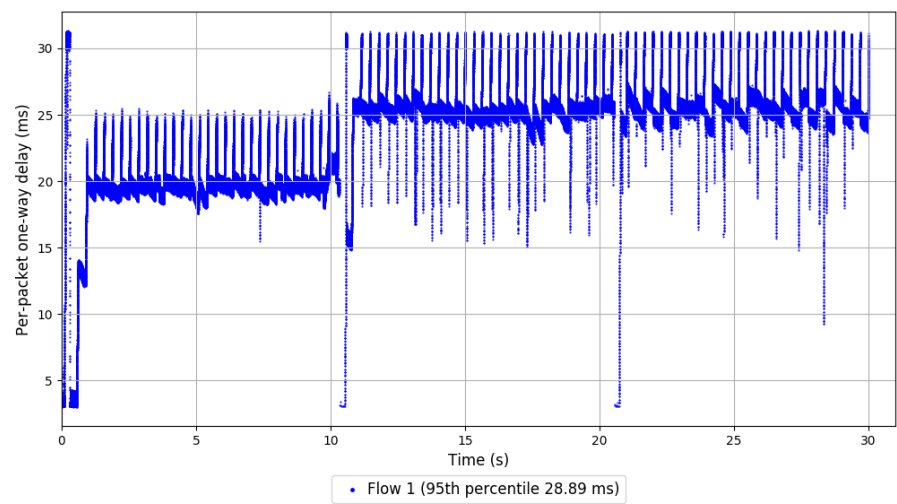
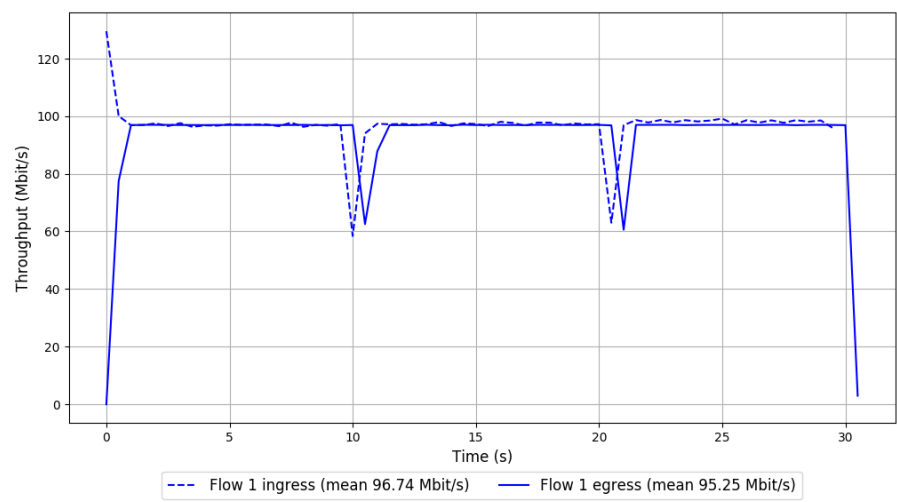


Run 10: Statistics of FillP-Sheep

Start at: 2018-08-27 23:37:33
End at: 2018-08-27 23:38:03
Local clock offset: -3.396 ms
Remote clock offset: -0.092 ms

Below is generated by plot.py at 2018-08-27 23:55:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.25 Mbit/s
95th percentile per-packet one-way delay: 28.886 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 95.25 Mbit/s
95th percentile per-packet one-way delay: 28.886 ms
Loss rate: 1.44%

Run 10: Report of FillP-Sheep — Data Link

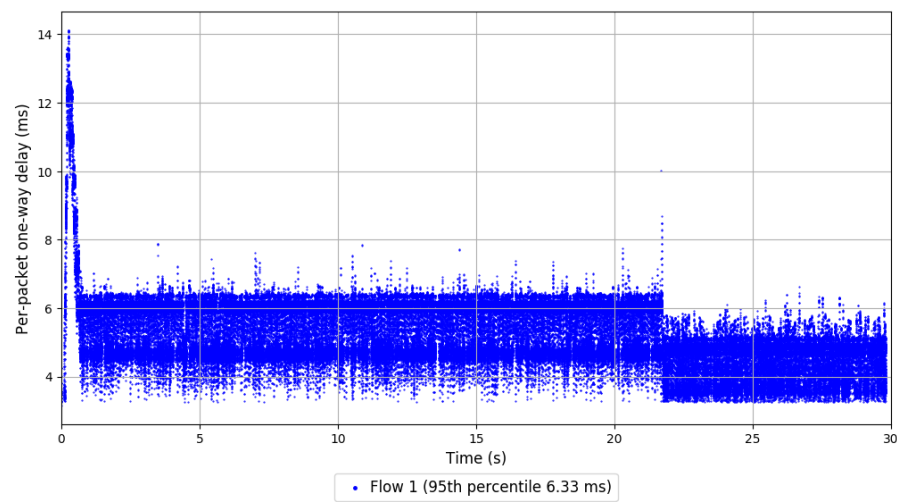
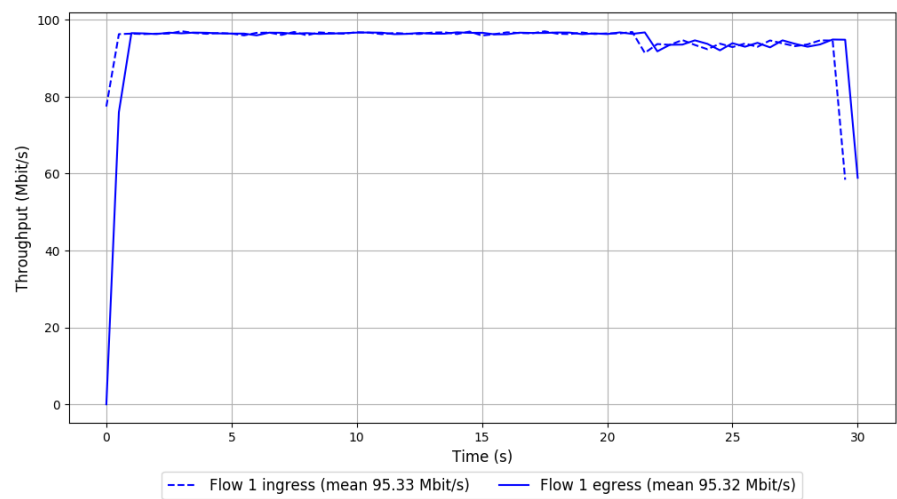


```
Run 1: Statistics of Indigo

Start at: 2018-08-27 20:45:19
End at: 2018-08-27 20:45:49
Local clock offset: 1.229 ms
Remote clock offset: 0.131 ms

# Below is generated by plot.py at 2018-08-27 23:55:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.32 Mbit/s
95th percentile per-packet one-way delay: 6.325 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.32 Mbit/s
95th percentile per-packet one-way delay: 6.325 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-08-27 21:04:01

End at: 2018-08-27 21:04:31

Local clock offset: 2.224 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-08-27 23:55:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.52 Mbit/s

95th percentile per-packet one-way delay: 4.675 ms

Loss rate: 0.00%

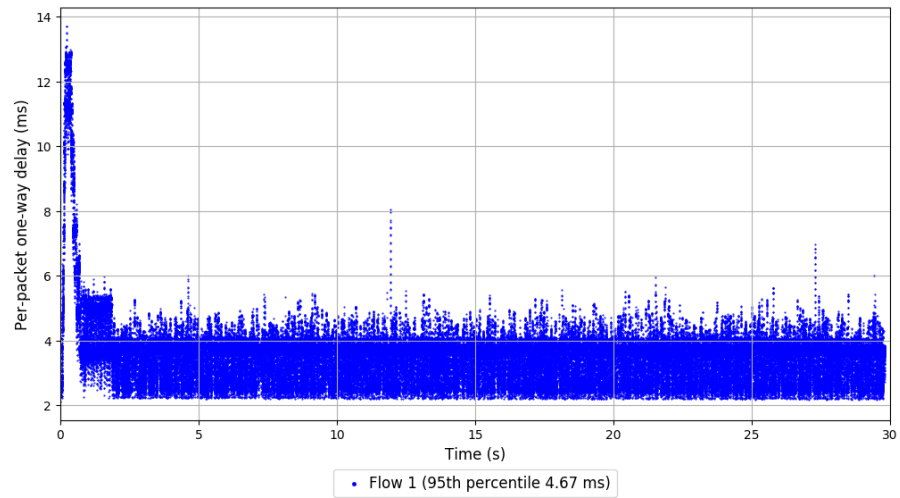
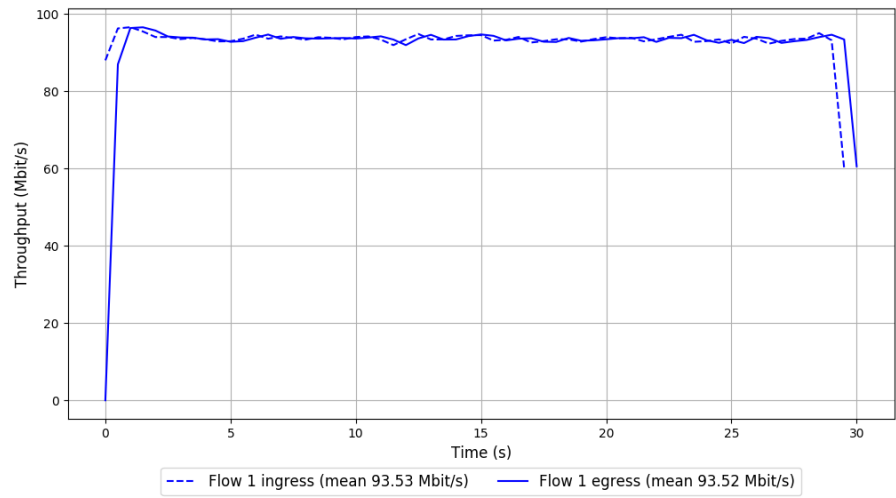
-- Flow 1:

Average throughput: 93.52 Mbit/s

95th percentile per-packet one-way delay: 4.675 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-08-27 21:22:51

End at: 2018-08-27 21:23:21

Local clock offset: 2.433 ms

Remote clock offset: 0.131 ms

Below is generated by plot.py at 2018-08-27 23:55:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.57 Mbit/s

95th percentile per-packet one-way delay: 4.443 ms

Loss rate: 0.00%

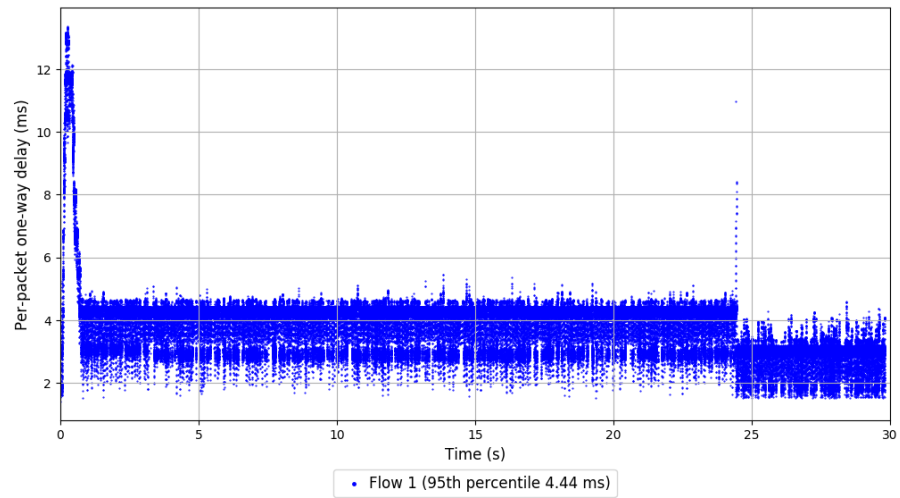
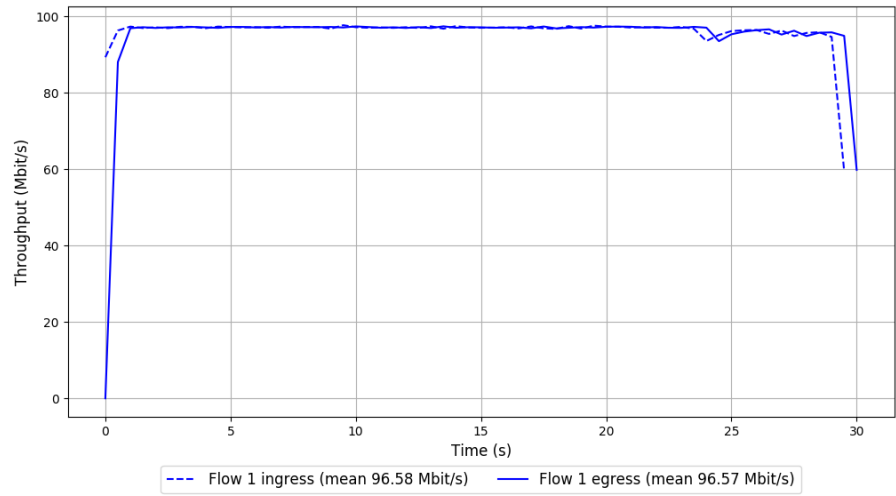
-- Flow 1:

Average throughput: 96.57 Mbit/s

95th percentile per-packet one-way delay: 4.443 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-08-27 21:41:36

End at: 2018-08-27 21:42:06

Local clock offset: 5.587 ms

Remote clock offset: 0.214 ms

Below is generated by plot.py at 2018-08-27 23:55:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.33 Mbit/s

95th percentile per-packet one-way delay: 4.120 ms

Loss rate: 0.00%

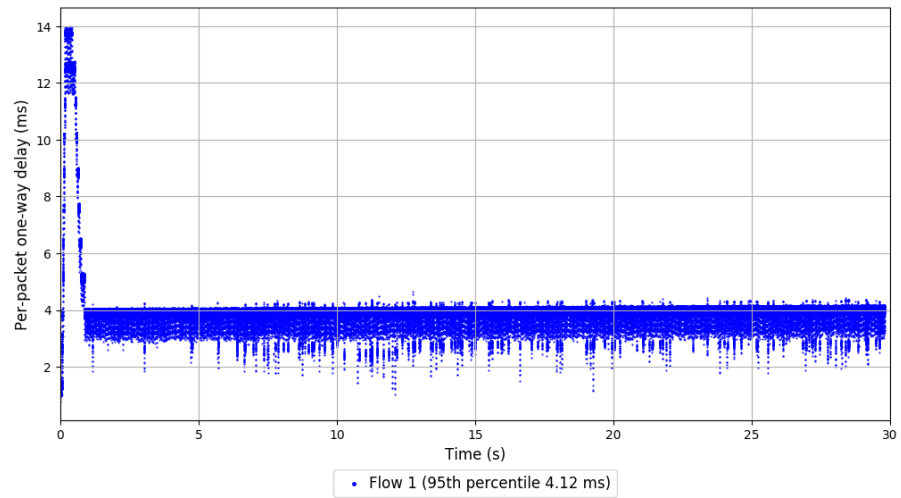
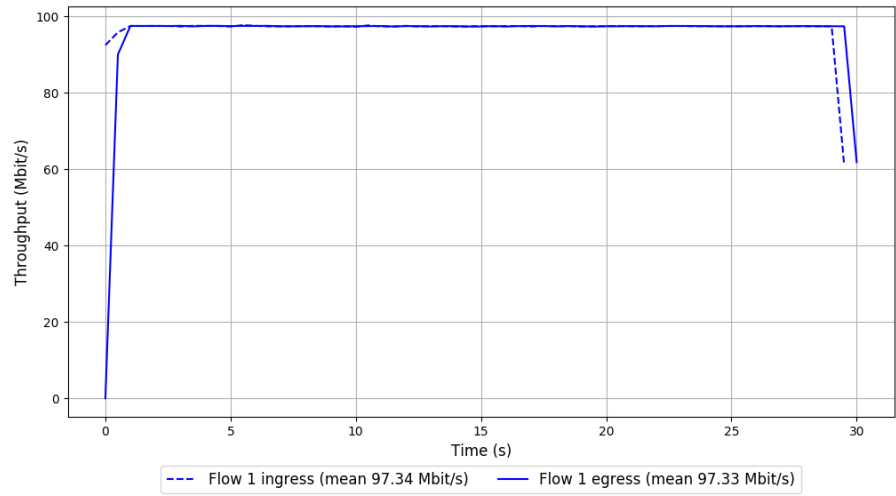
-- Flow 1:

Average throughput: 97.33 Mbit/s

95th percentile per-packet one-way delay: 4.120 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-08-27 22:00:20

End at: 2018-08-27 22:00:50

Local clock offset: 7.671 ms

Remote clock offset: 0.11 ms

Below is generated by plot.py at 2018-08-27 23:56:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.22 Mbit/s

95th percentile per-packet one-way delay: 6.004 ms

Loss rate: 0.00%

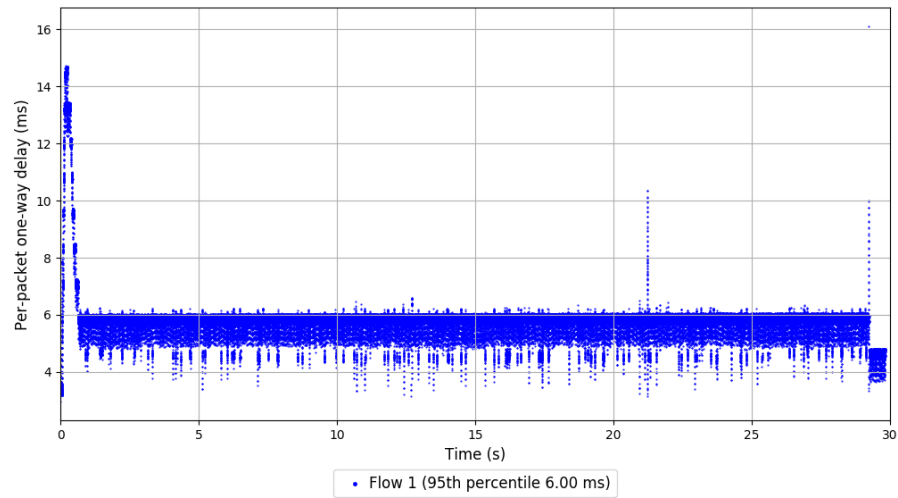
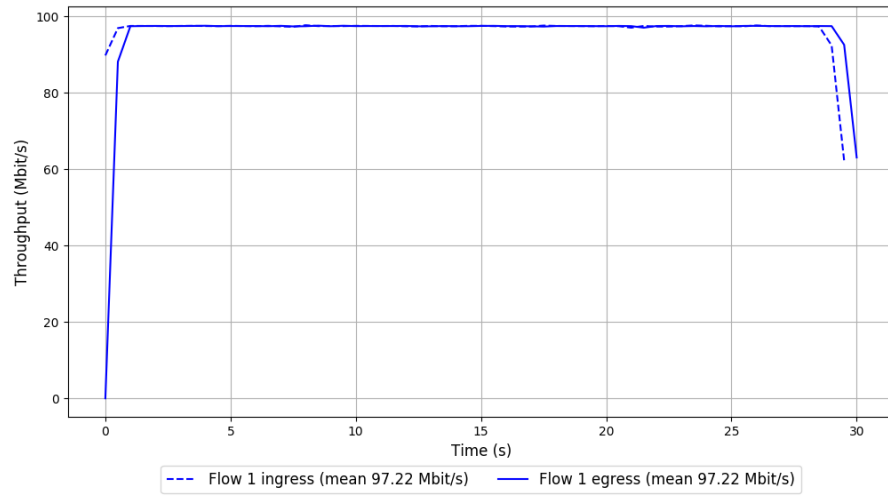
-- Flow 1:

Average throughput: 97.22 Mbit/s

95th percentile per-packet one-way delay: 6.004 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-08-27 22:19:06

End at: 2018-08-27 22:19:36

Local clock offset: 4.799 ms

Remote clock offset: 0.069 ms

Below is generated by plot.py at 2018-08-27 23:56:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.32 Mbit/s

95th percentile per-packet one-way delay: 3.907 ms

Loss rate: 0.00%

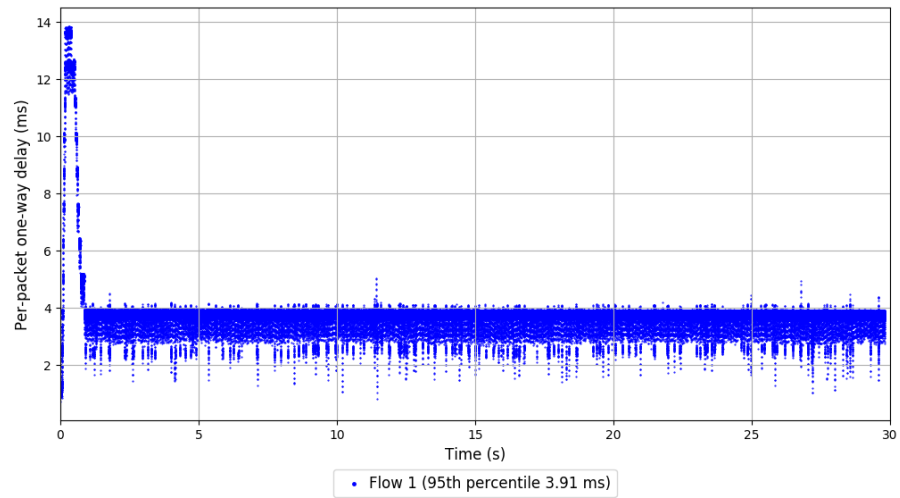
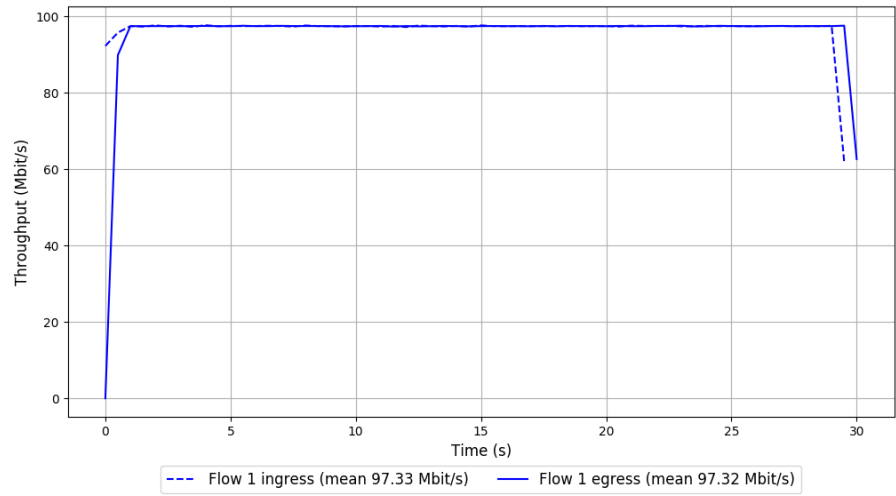
-- Flow 1:

Average throughput: 97.32 Mbit/s

95th percentile per-packet one-way delay: 3.907 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-08-27 22:37:52

End at: 2018-08-27 22:38:22

Local clock offset: 4.253 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2018-08-27 23:56:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.27 Mbit/s

95th percentile per-packet one-way delay: 5.165 ms

Loss rate: 0.00%

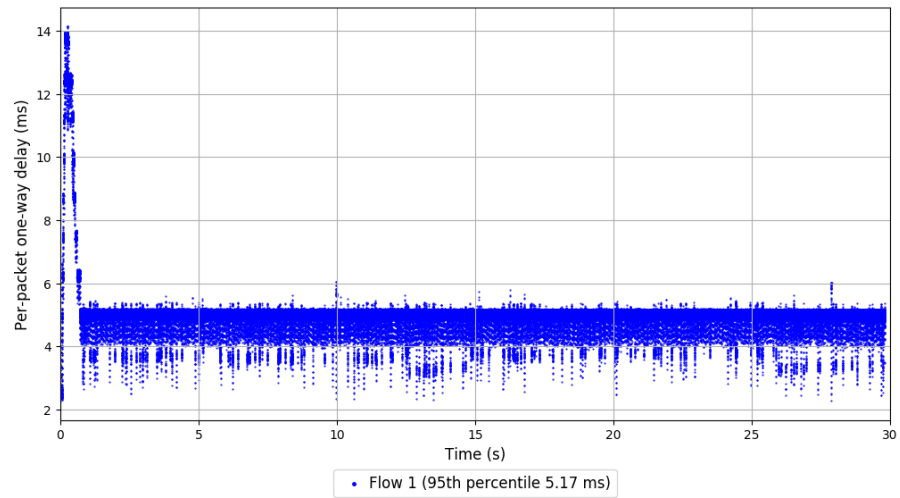
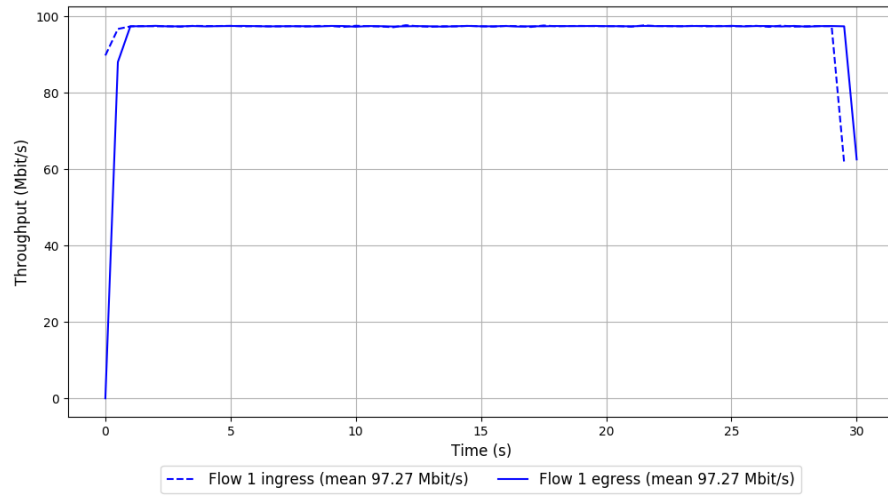
-- Flow 1:

Average throughput: 97.27 Mbit/s

95th percentile per-packet one-way delay: 5.165 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-08-27 22:56:37

End at: 2018-08-27 22:57:07

Local clock offset: 4.059 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2018-08-27 23:56:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.15 Mbit/s

95th percentile per-packet one-way delay: 5.234 ms

Loss rate: 0.00%

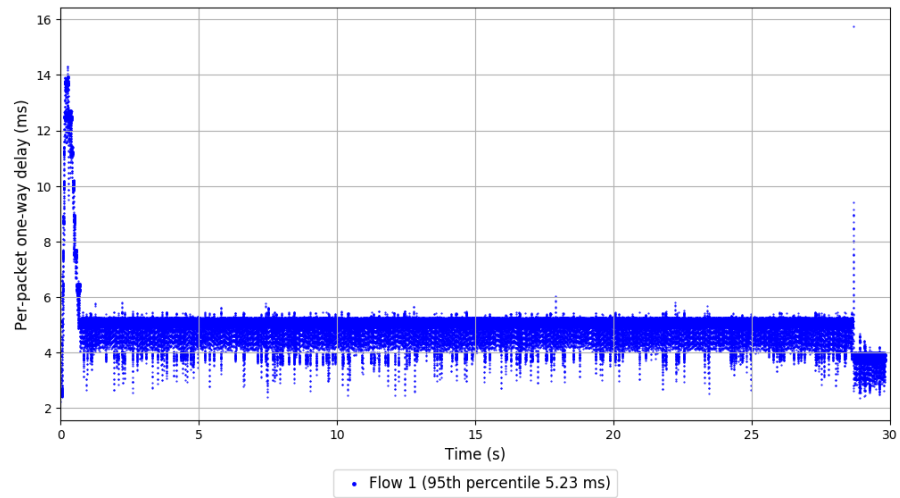
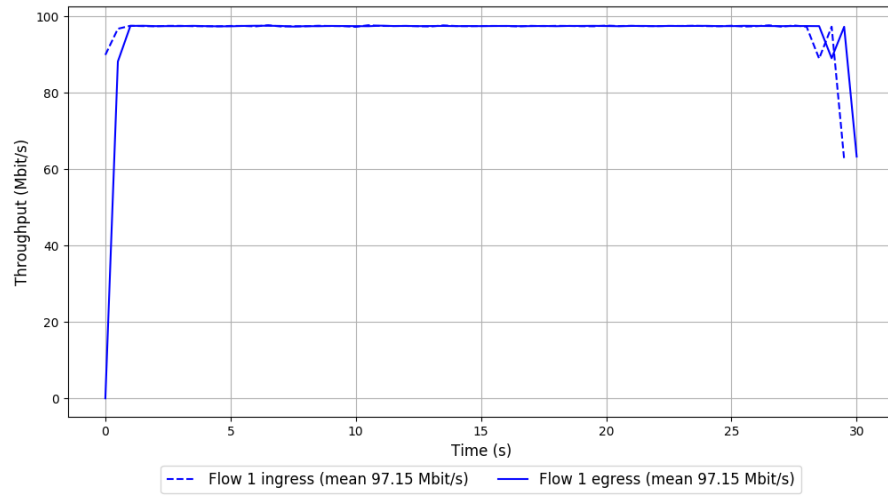
-- Flow 1:

Average throughput: 97.15 Mbit/s

95th percentile per-packet one-way delay: 5.234 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-08-27 23:15:21

End at: 2018-08-27 23:15:51

Local clock offset: -1.103 ms

Remote clock offset: 0.078 ms

Below is generated by plot.py at 2018-08-27 23:56:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.21 Mbit/s

95th percentile per-packet one-way delay: 5.106 ms

Loss rate: 0.00%

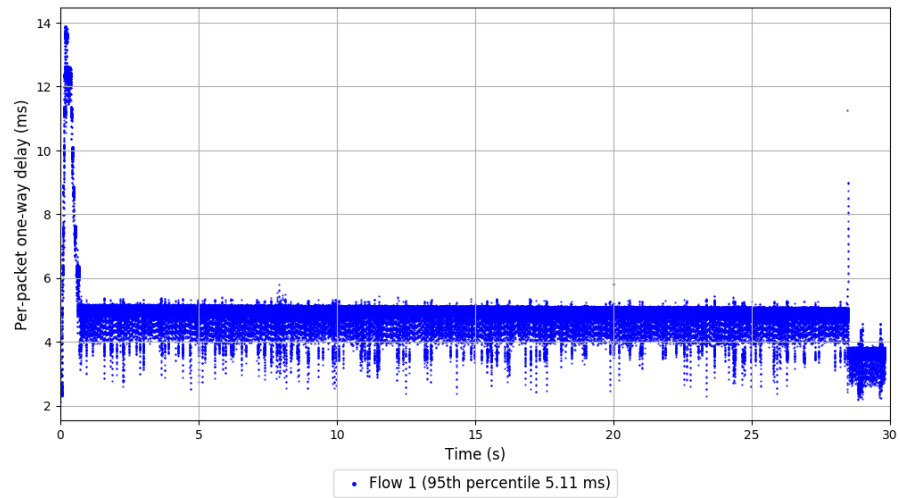
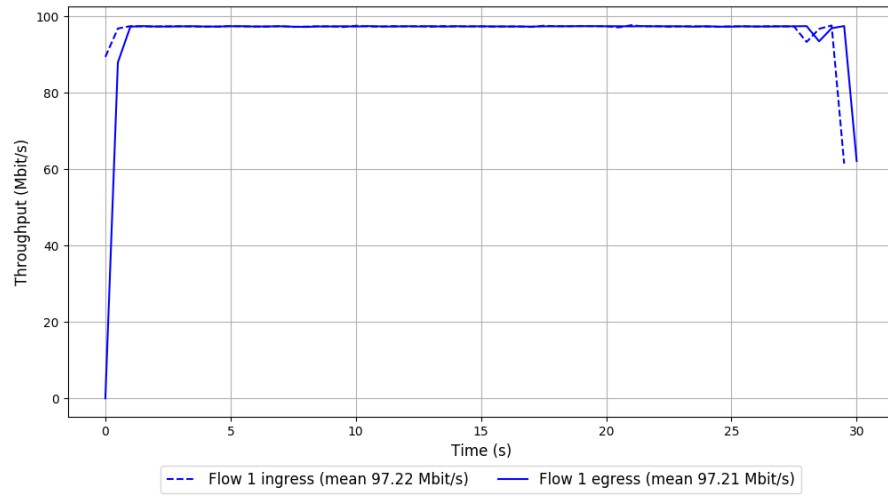
-- Flow 1:

Average throughput: 97.21 Mbit/s

95th percentile per-packet one-way delay: 5.106 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-08-27 23:34:12

End at: 2018-08-27 23:34:42

Local clock offset: -3.043 ms

Remote clock offset: -0.07 ms

Below is generated by plot.py at 2018-08-27 23:56:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.21 Mbit/s

95th percentile per-packet one-way delay: 5.250 ms

Loss rate: 0.00%

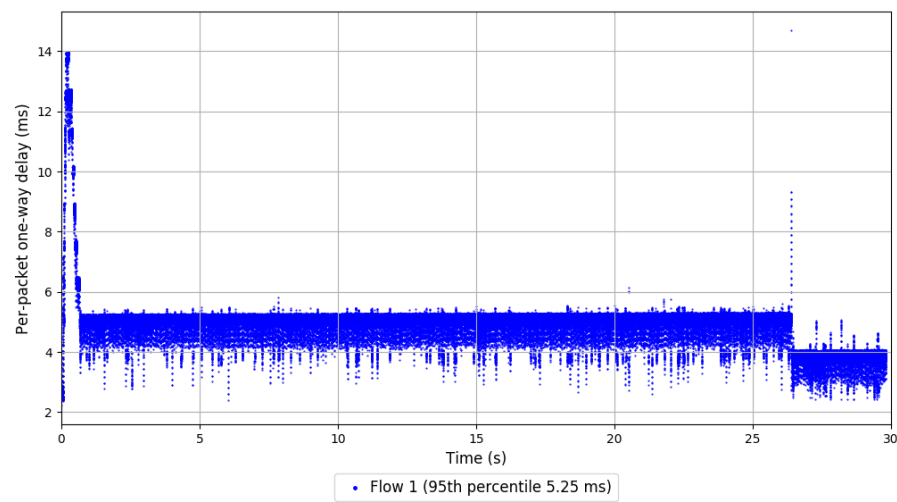
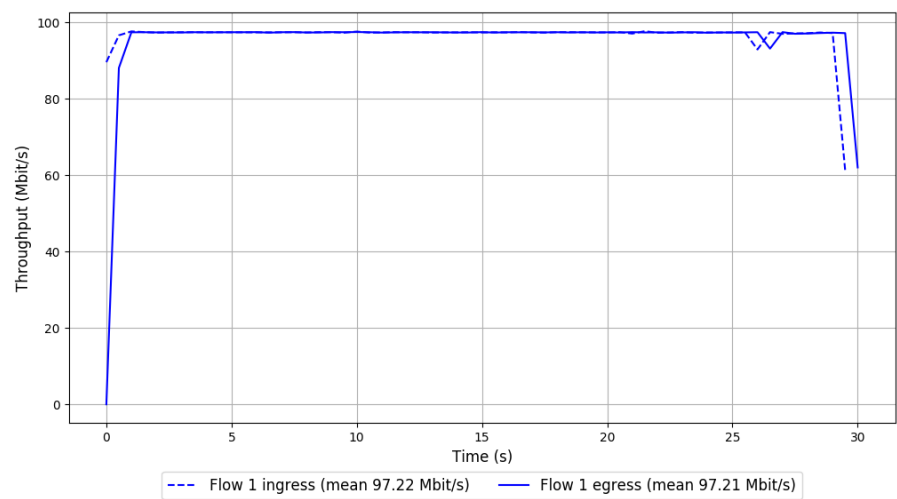
-- Flow 1:

Average throughput: 97.21 Mbit/s

95th percentile per-packet one-way delay: 5.250 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

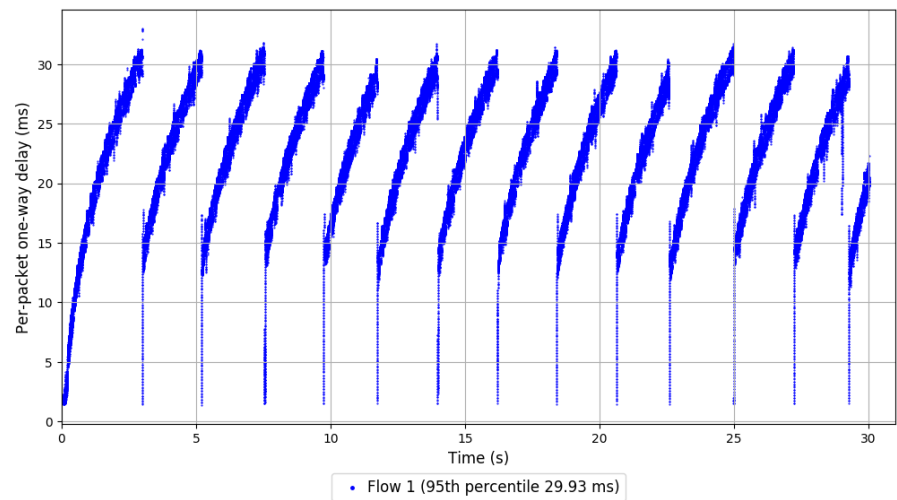
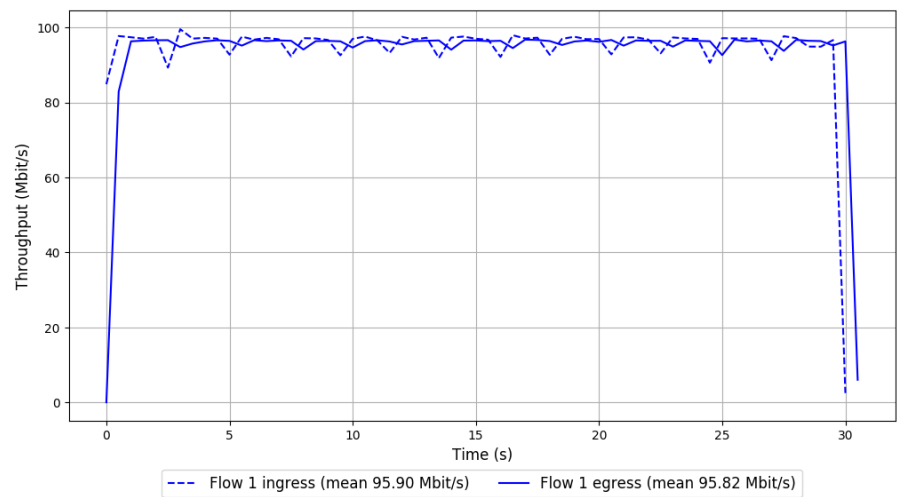


```
Run 1: Statistics of LEDBAT

Start at: 2018-08-27 20:38:40
End at: 2018-08-27 20:39:10
Local clock offset: 2.659 ms
Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2018-08-27 23:57:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.82 Mbit/s
95th percentile per-packet one-way delay: 29.932 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 95.82 Mbit/s
95th percentile per-packet one-way delay: 29.932 ms
Loss rate: 0.02%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-08-27 20:57:22

End at: 2018-08-27 20:57:52

Local clock offset: 1.543 ms

Remote clock offset: 0.003 ms

Below is generated by plot.py at 2018-08-27 23:57:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.03 Mbit/s

95th percentile per-packet one-way delay: 30.203 ms

Loss rate: 0.02%

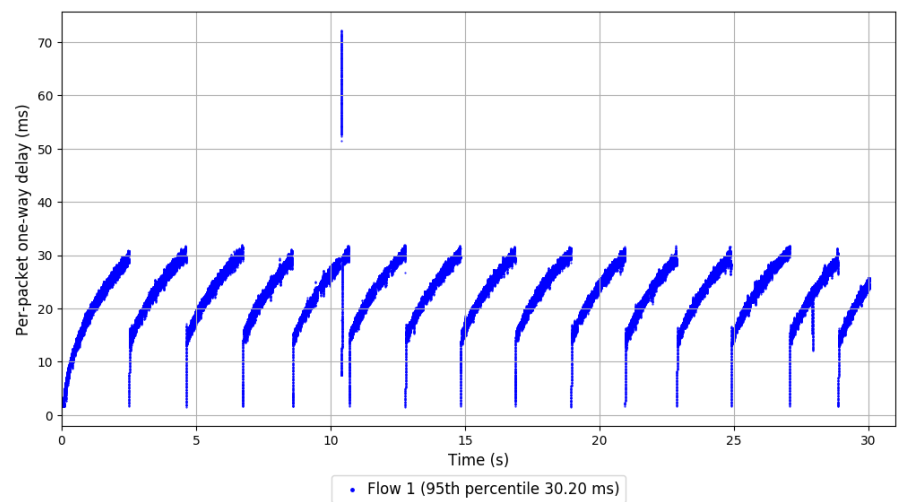
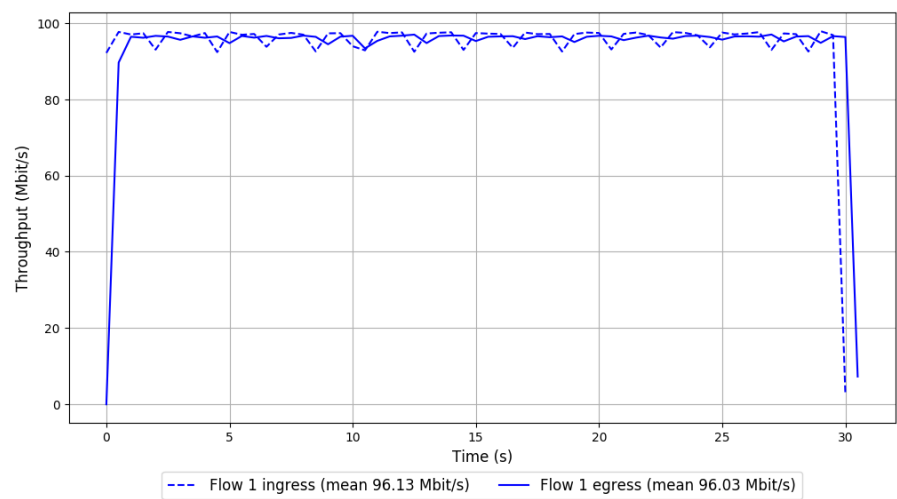
-- Flow 1:

Average throughput: 96.03 Mbit/s

95th percentile per-packet one-way delay: 30.203 ms

Loss rate: 0.02%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-08-27 21:16:07

End at: 2018-08-27 21:16:37

Local clock offset: 0.888 ms

Remote clock offset: 0.049 ms

Below is generated by plot.py at 2018-08-27 23:57:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.63 Mbit/s

95th percentile per-packet one-way delay: 30.725 ms

Loss rate: 0.01%

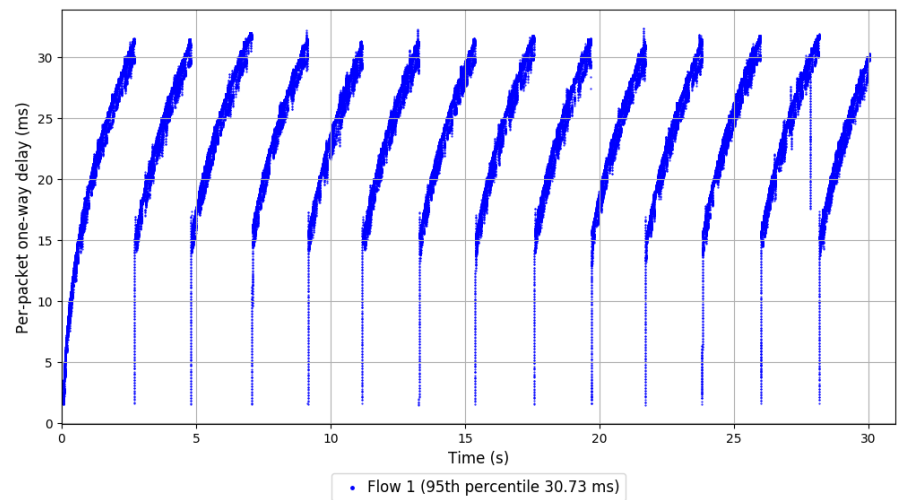
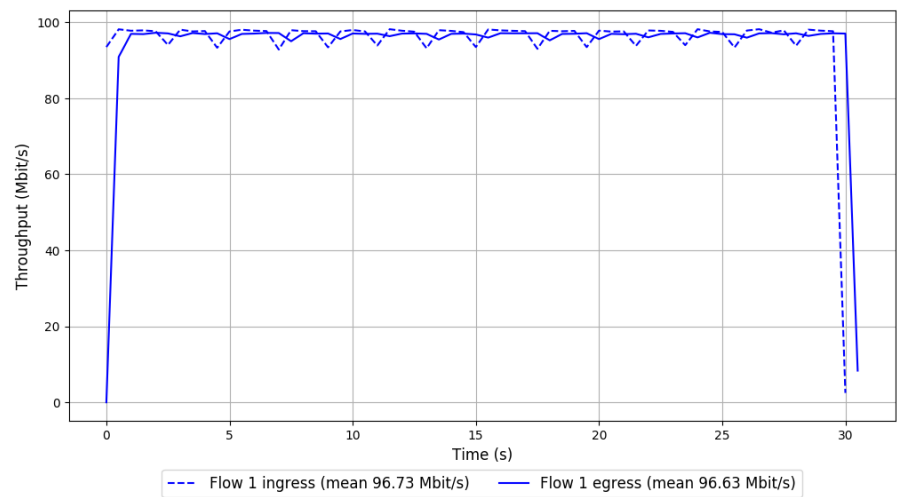
-- Flow 1:

Average throughput: 96.63 Mbit/s

95th percentile per-packet one-way delay: 30.725 ms

Loss rate: 0.01%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-08-27 21:34:57

End at: 2018-08-27 21:35:27

Local clock offset: 2.414 ms

Remote clock offset: 0.198 ms

Below is generated by plot.py at 2018-08-27 23:57:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.40 Mbit/s

95th percentile per-packet one-way delay: 31.515 ms

Loss rate: 0.01%

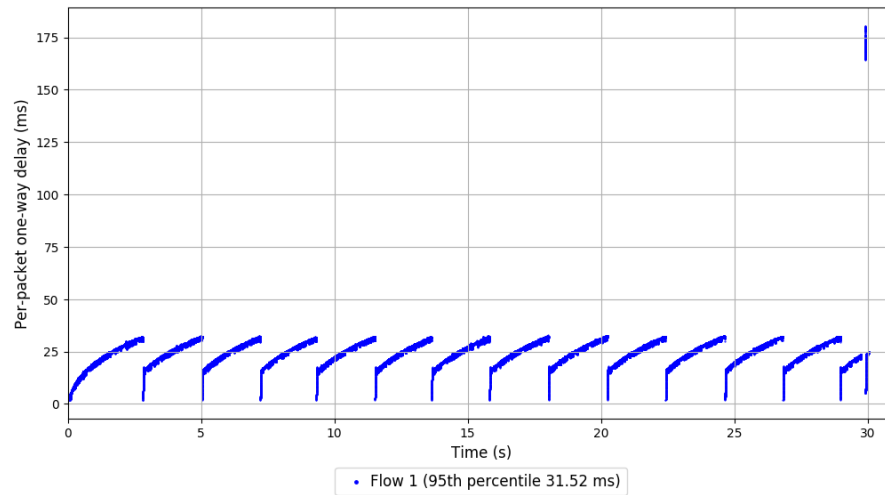
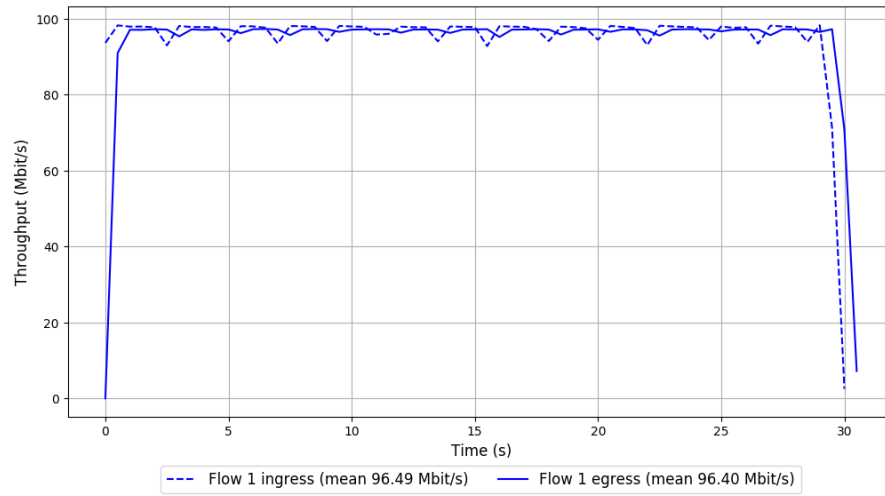
-- Flow 1:

Average throughput: 96.40 Mbit/s

95th percentile per-packet one-way delay: 31.515 ms

Loss rate: 0.01%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-08-27 21:53:42

End at: 2018-08-27 21:54:12

Local clock offset: 6.948 ms

Remote clock offset: 0.183 ms

Below is generated by plot.py at 2018-08-27 23:57:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.12 Mbit/s

95th percentile per-packet one-way delay: 31.462 ms

Loss rate: 0.01%

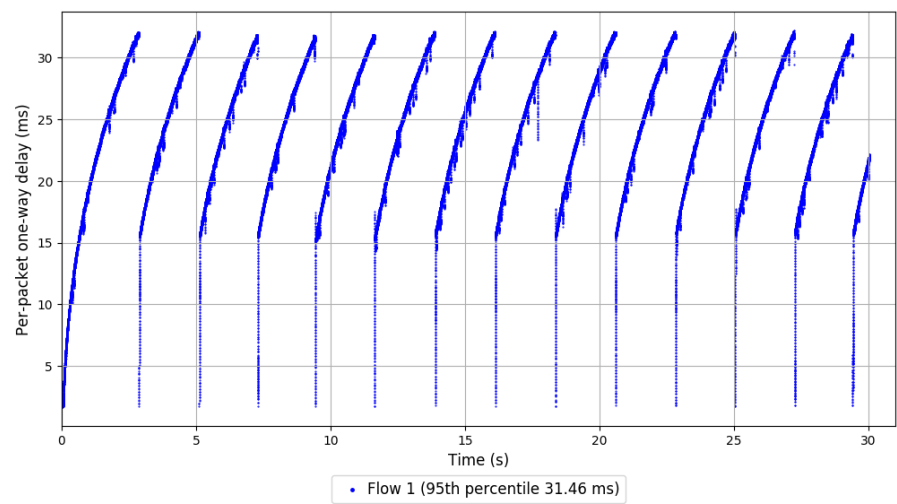
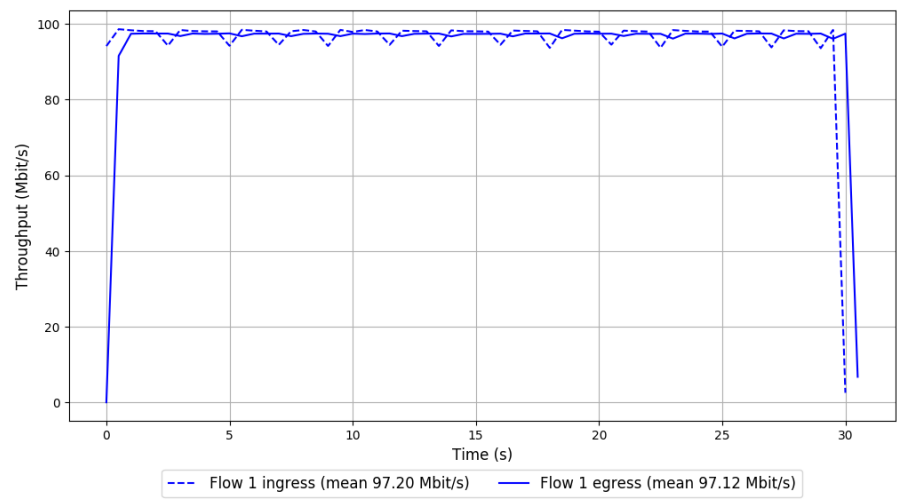
-- Flow 1:

Average throughput: 97.12 Mbit/s

95th percentile per-packet one-way delay: 31.462 ms

Loss rate: 0.01%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-08-27 22:12:27

End at: 2018-08-27 22:12:57

Local clock offset: 5.491 ms

Remote clock offset: 0.095 ms

Below is generated by plot.py at 2018-08-27 23:57:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.10 Mbit/s

95th percentile per-packet one-way delay: 30.362 ms

Loss rate: 0.01%

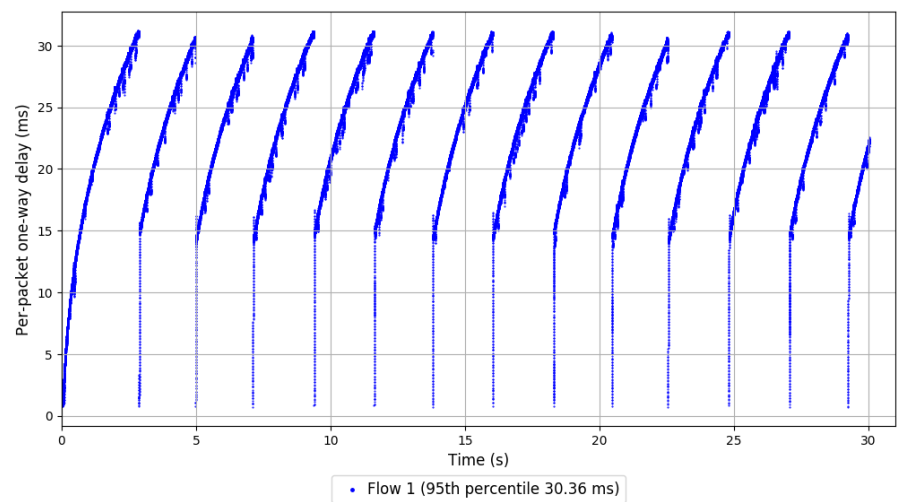
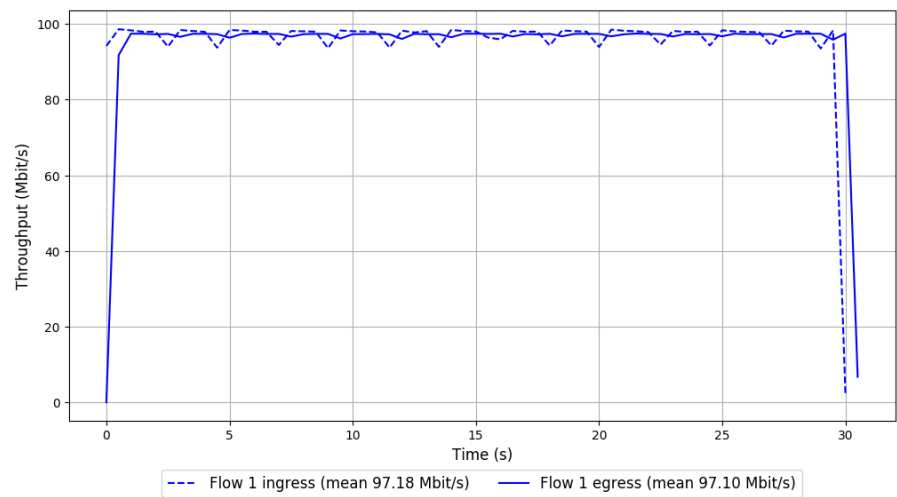
-- Flow 1:

Average throughput: 97.10 Mbit/s

95th percentile per-packet one-way delay: 30.362 ms

Loss rate: 0.01%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-08-27 22:31:13

End at: 2018-08-27 22:31:43

Local clock offset: 5.239 ms

Remote clock offset: 0.04 ms

Below is generated by plot.py at 2018-08-27 23:58:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.14 Mbit/s

95th percentile per-packet one-way delay: 29.861 ms

Loss rate: 0.01%

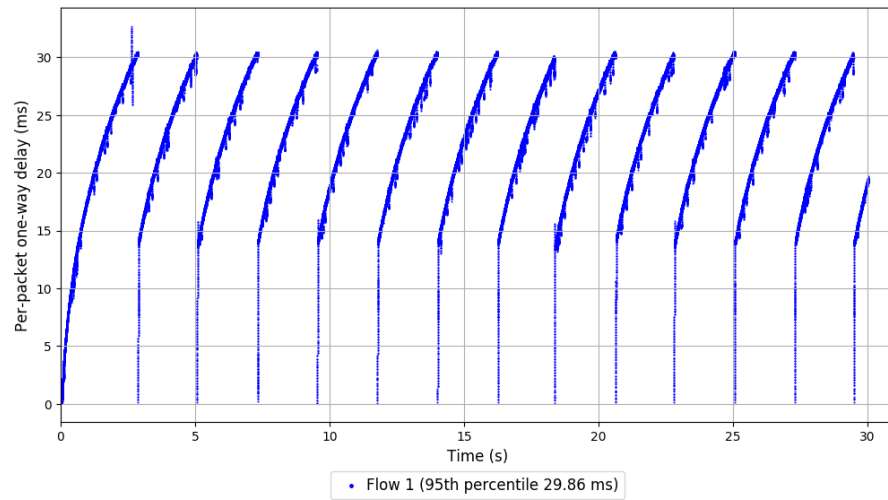
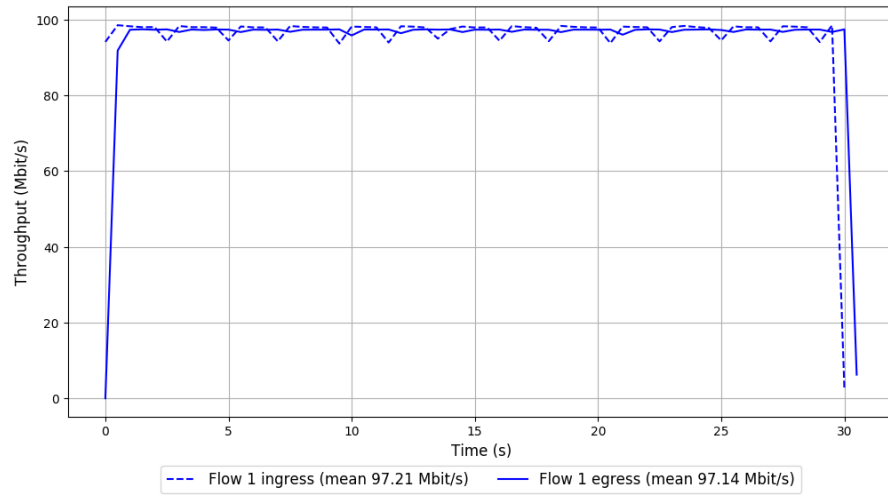
-- Flow 1:

Average throughput: 97.14 Mbit/s

95th percentile per-packet one-way delay: 29.861 ms

Loss rate: 0.01%

Run 7: Report of LEDBAT — Data Link

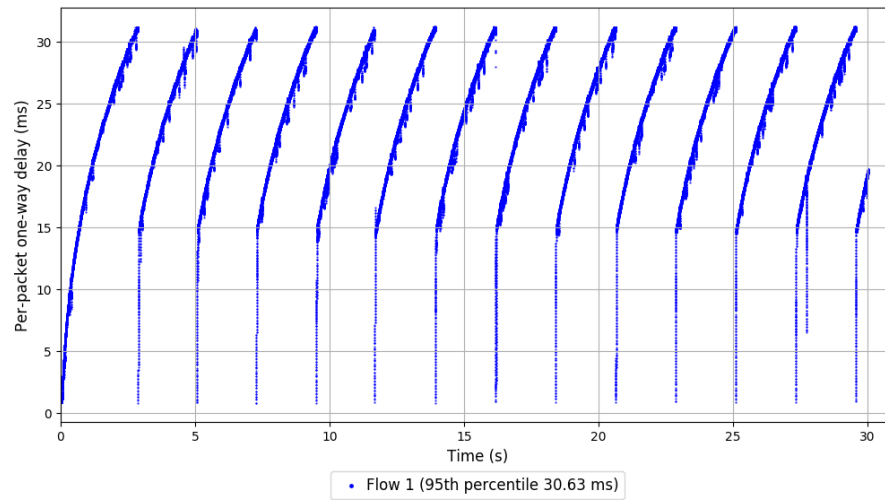
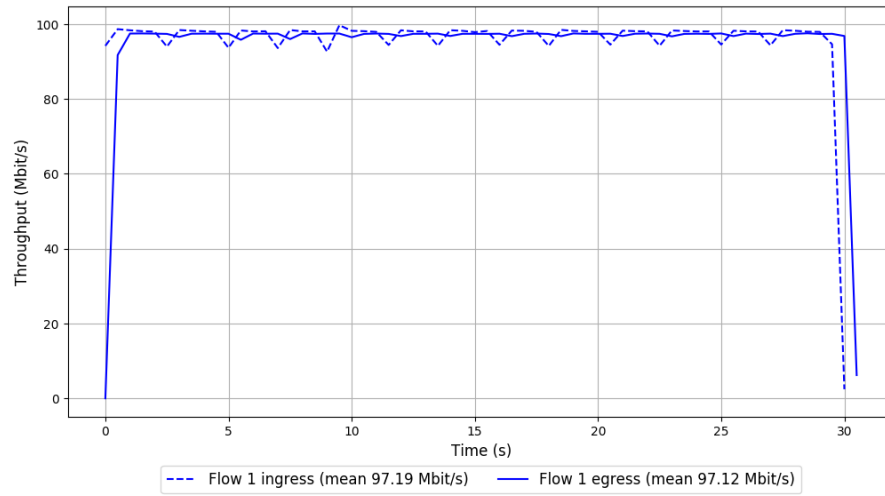


Run 8: Statistics of LEDBAT

Start at: 2018-08-27 22:49:59
End at: 2018-08-27 22:50:29
Local clock offset: 4.138 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2018-08-27 23:58:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.12 Mbit/s
95th percentile per-packet one-way delay: 30.631 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.12 Mbit/s
95th percentile per-packet one-way delay: 30.631 ms
Loss rate: 0.01%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-08-27 23:08:43

End at: 2018-08-27 23:09:13

Local clock offset: 0.78 ms

Remote clock offset: 0.059 ms

Below is generated by plot.py at 2018-08-27 23:58:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.01 Mbit/s

95th percentile per-packet one-way delay: 31.803 ms

Loss rate: 0.01%

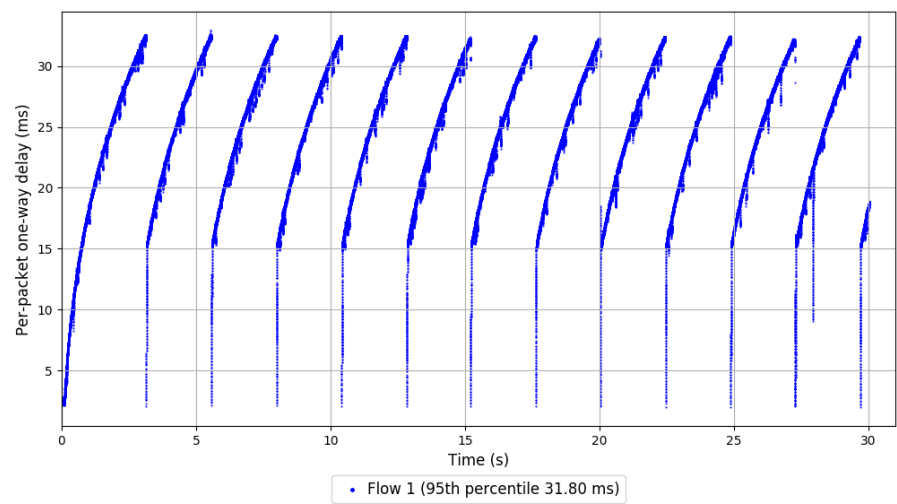
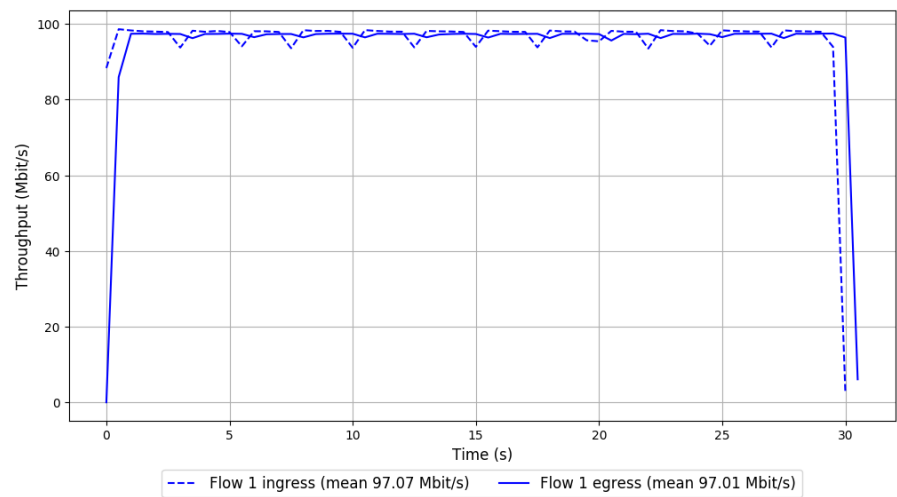
-- Flow 1:

Average throughput: 97.01 Mbit/s

95th percentile per-packet one-way delay: 31.803 ms

Loss rate: 0.01%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-08-27 23:27:33

End at: 2018-08-27 23:28:03

Local clock offset: -2.846 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-08-27 23:58:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.11 Mbit/s

95th percentile per-packet one-way delay: 30.622 ms

Loss rate: 0.01%

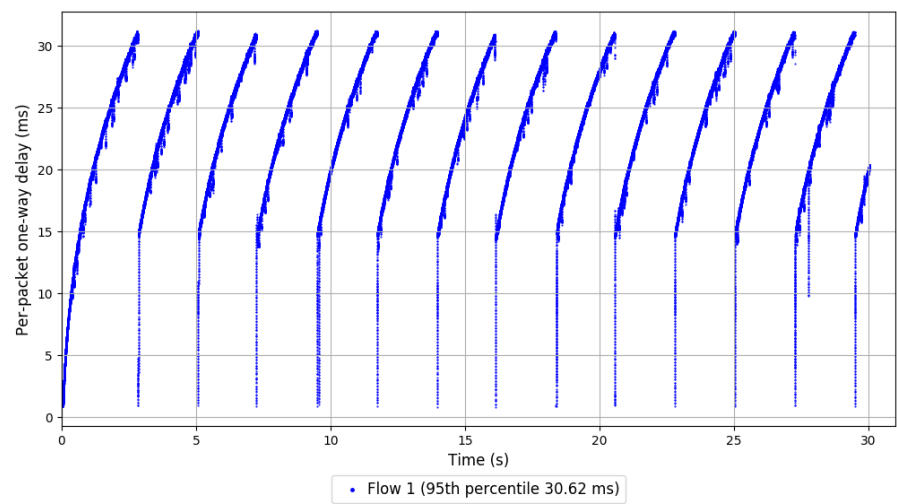
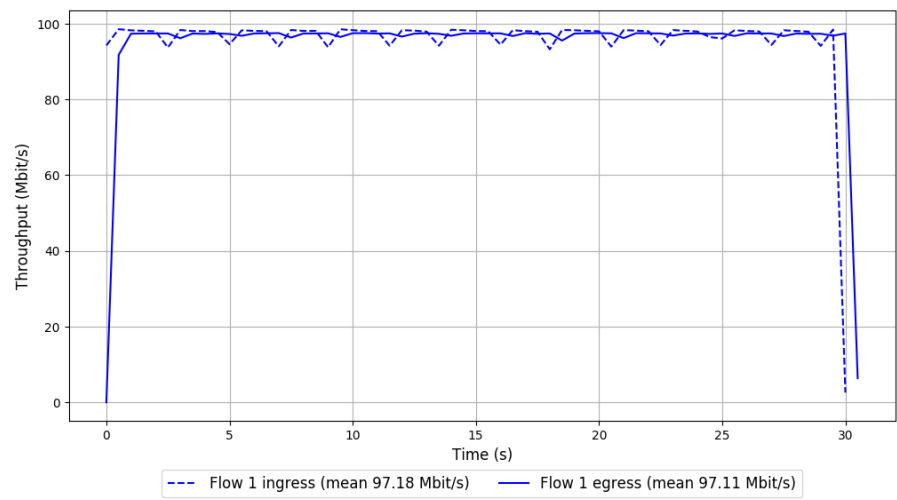
-- Flow 1:

Average throughput: 97.11 Mbit/s

95th percentile per-packet one-way delay: 30.622 ms

Loss rate: 0.01%

Run 10: Report of LEDBAT — Data Link

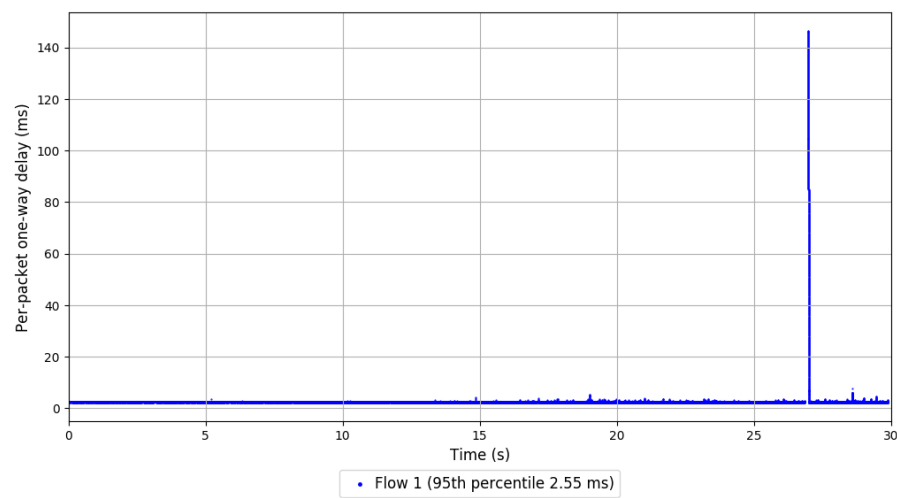
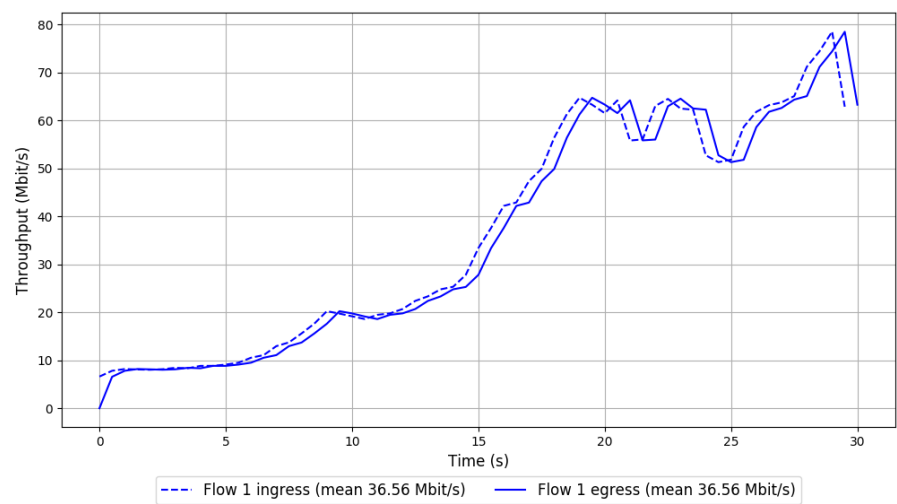


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-08-27 20:47:36
End at: 2018-08-27 20:48:06
Local clock offset: 2.056 ms
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2018-08-27 23:58:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.56 Mbit/s
95th percentile per-packet one-way delay: 2.550 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 36.56 Mbit/s
95th percentile per-packet one-way delay: 2.550 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-08-27 21:06:18

End at: 2018-08-27 21:06:48

Local clock offset: 1.314 ms

Remote clock offset: 0.055 ms

Below is generated by plot.py at 2018-08-27 23:58:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 3.208 ms

Loss rate: 0.00%

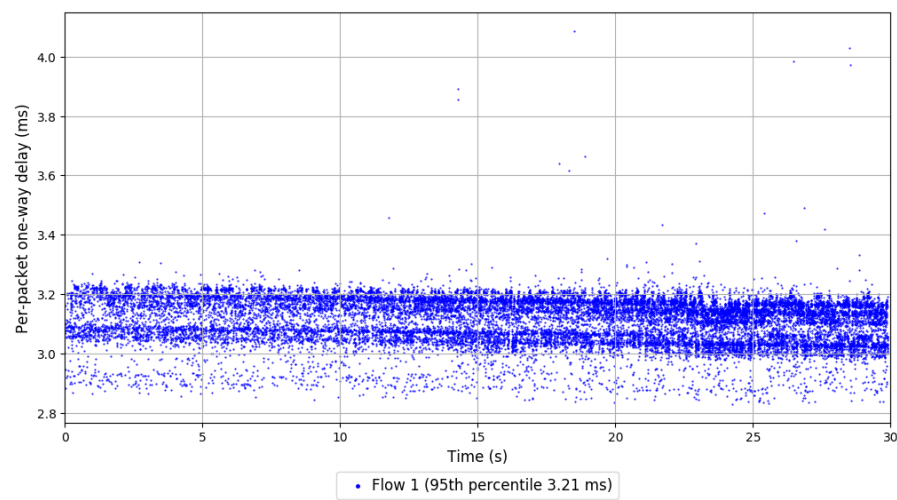
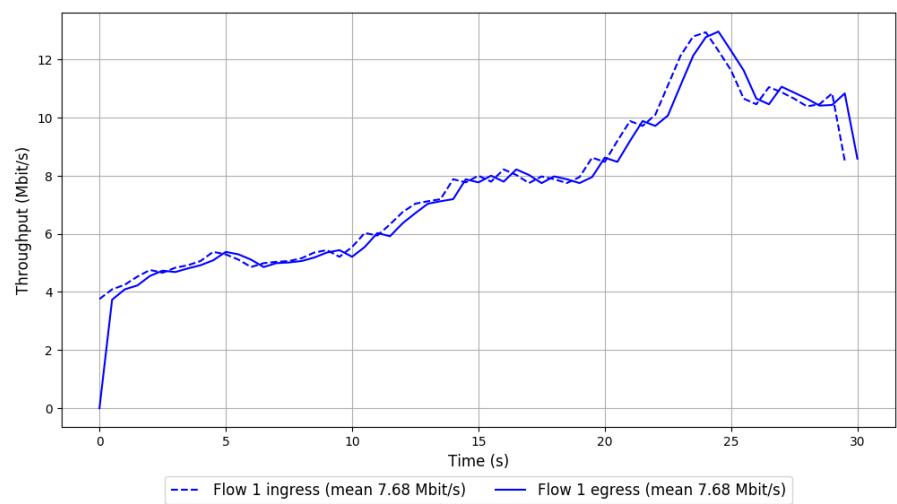
-- Flow 1:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 3.208 ms

Loss rate: 0.00%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-08-27 21:25:07

End at: 2018-08-27 21:25:37

Local clock offset: 0.893 ms

Remote clock offset: 0.152 ms

Below is generated by plot.py at 2018-08-27 23:58:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.70 Mbit/s

95th percentile per-packet one-way delay: 4.304 ms

Loss rate: 0.00%

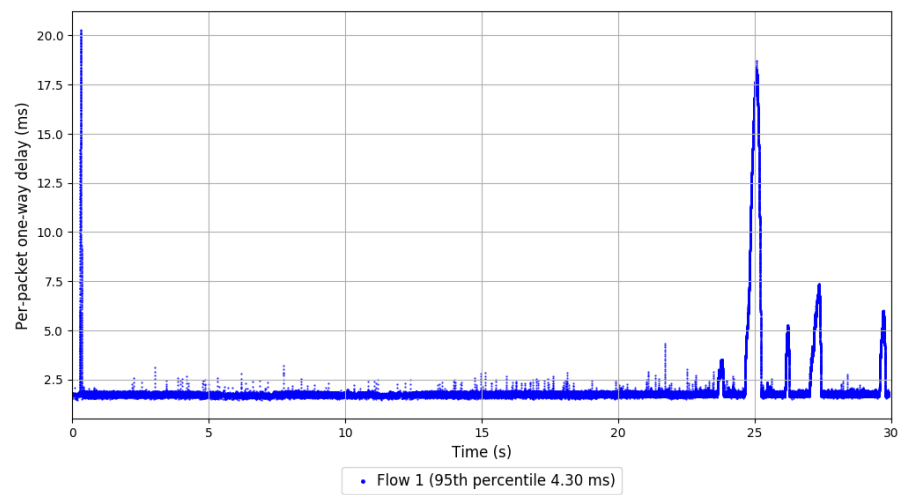
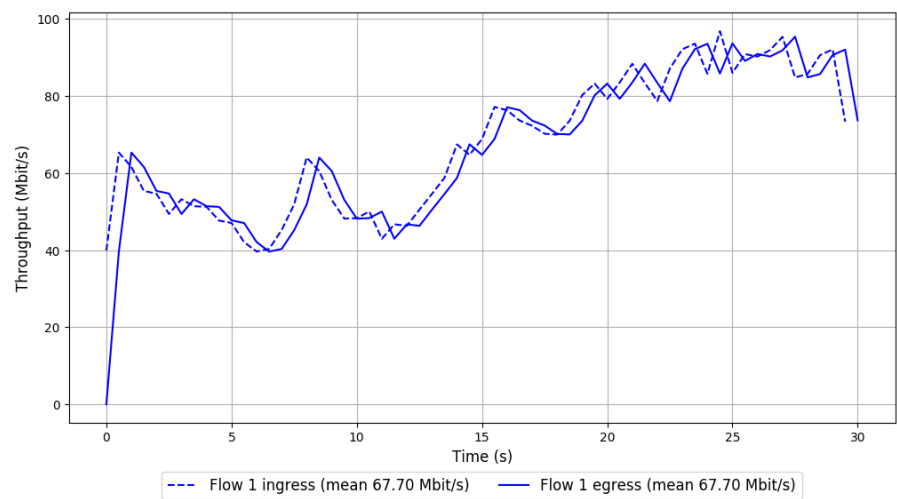
-- Flow 1:

Average throughput: 67.70 Mbit/s

95th percentile per-packet one-way delay: 4.304 ms

Loss rate: 0.00%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-08-27 21:43:51

End at: 2018-08-27 21:44:21

Local clock offset: 5.28 ms

Remote clock offset: 0.148 ms

Below is generated by plot.py at 2018-08-27 23:58:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.73 Mbit/s

95th percentile per-packet one-way delay: 3.593 ms

Loss rate: 0.00%

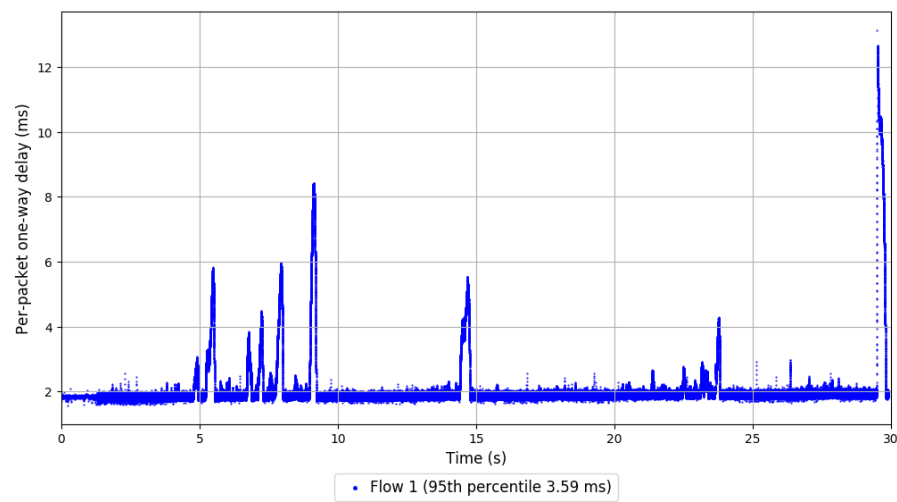
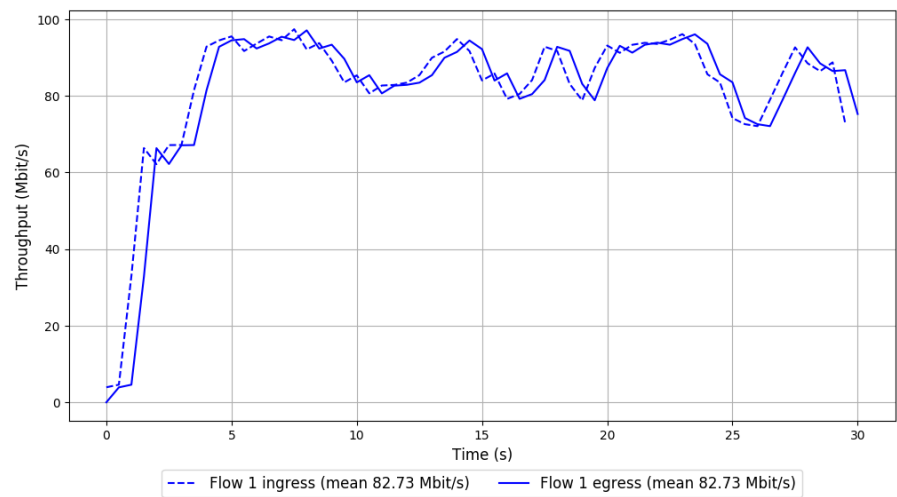
-- Flow 1:

Average throughput: 82.73 Mbit/s

95th percentile per-packet one-way delay: 3.593 ms

Loss rate: 0.00%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-08-27 22:02:36

End at: 2018-08-27 22:03:07

Local clock offset: 7.527 ms

Remote clock offset: 0.051 ms

Below is generated by plot.py at 2018-08-27 23:58:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.62 Mbit/s

95th percentile per-packet one-way delay: 1.684 ms

Loss rate: 0.00%

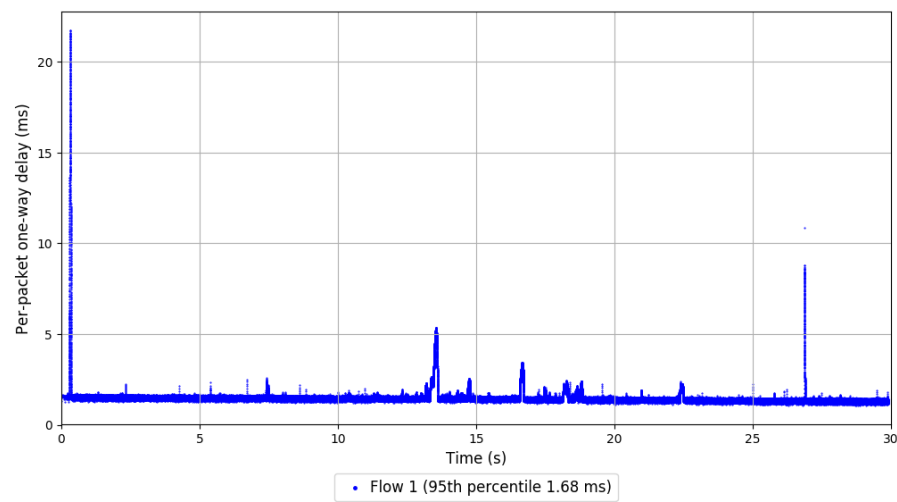
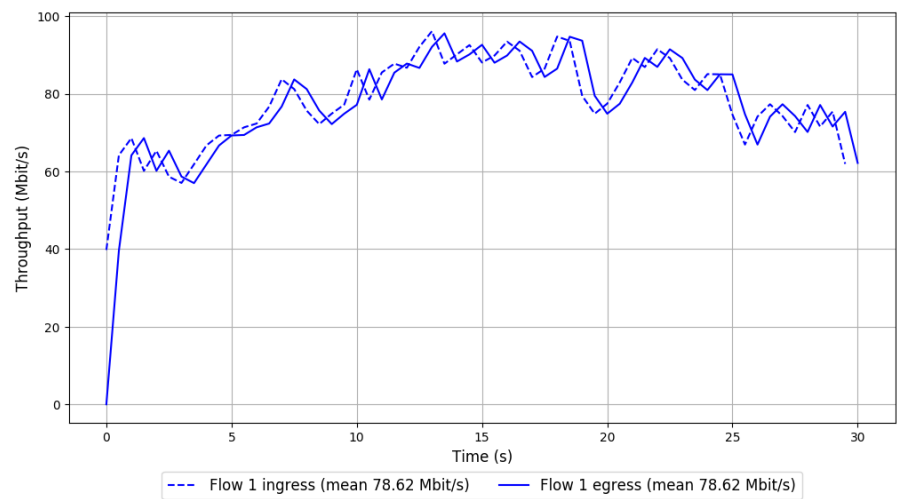
-- Flow 1:

Average throughput: 78.62 Mbit/s

95th percentile per-packet one-way delay: 1.684 ms

Loss rate: 0.00%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-08-27 22:21:22

End at: 2018-08-27 22:21:52

Local clock offset: 3.869 ms

Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-08-27 23:59:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.19 Mbit/s

95th percentile per-packet one-way delay: 4.888 ms

Loss rate: 0.00%

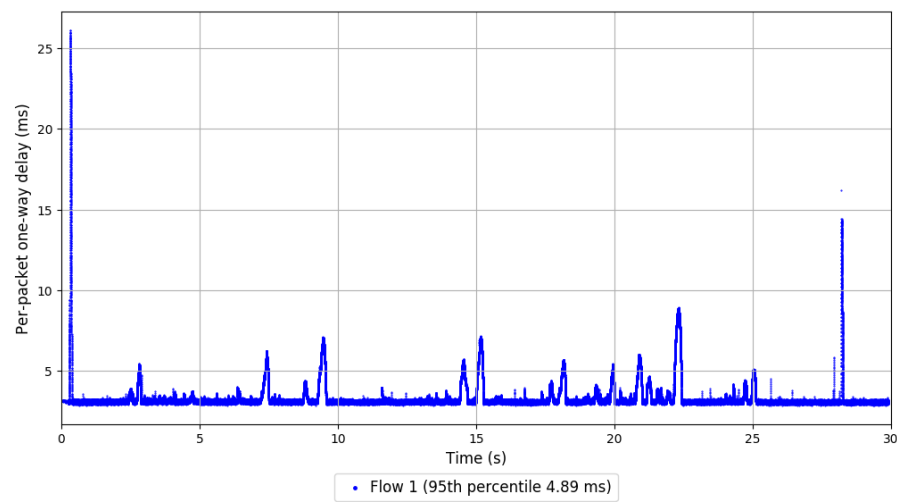
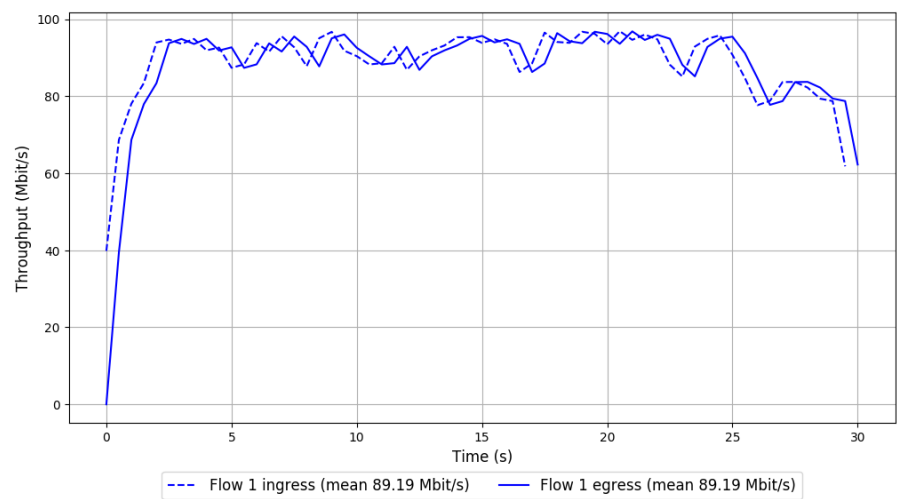
-- Flow 1:

Average throughput: 89.19 Mbit/s

95th percentile per-packet one-way delay: 4.888 ms

Loss rate: 0.00%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-08-27 22:40:08

End at: 2018-08-27 22:40:38

Local clock offset: 3.434 ms

Remote clock offset: 0.046 ms

Below is generated by plot.py at 2018-08-27 23:59:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.46 Mbit/s

95th percentile per-packet one-way delay: 4.820 ms

Loss rate: 0.00%

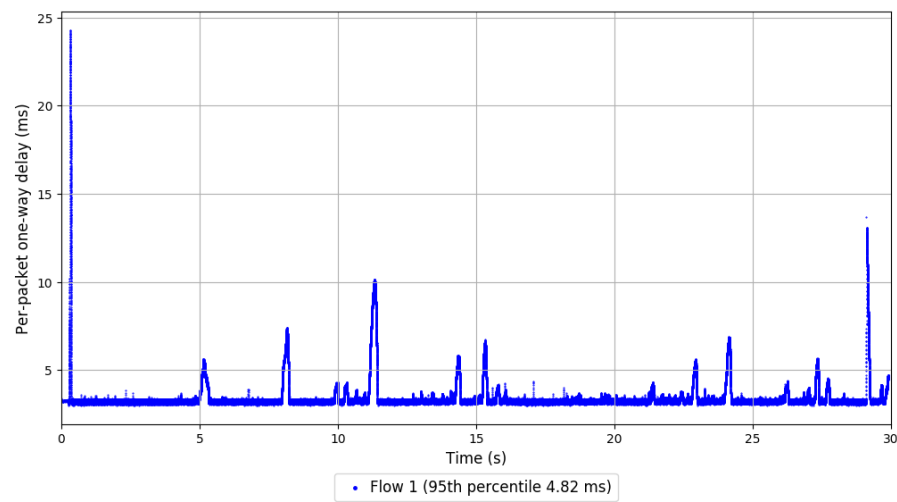
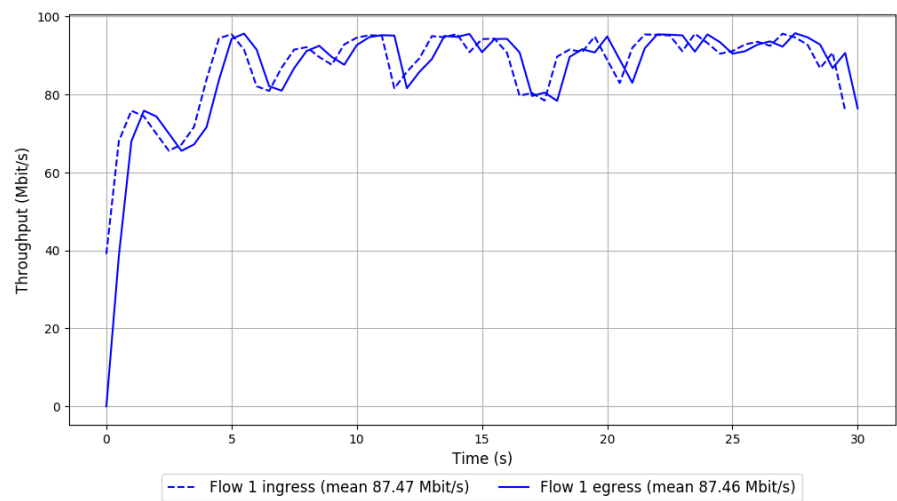
-- Flow 1:

Average throughput: 87.46 Mbit/s

95th percentile per-packet one-way delay: 4.820 ms

Loss rate: 0.00%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-08-27 22:58:52

End at: 2018-08-27 22:59:22

Local clock offset: 3.384 ms

Remote clock offset: 0.054 ms

Below is generated by plot.py at 2018-08-27 23:59:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.70 Mbit/s

95th percentile per-packet one-way delay: 4.162 ms

Loss rate: 0.00%

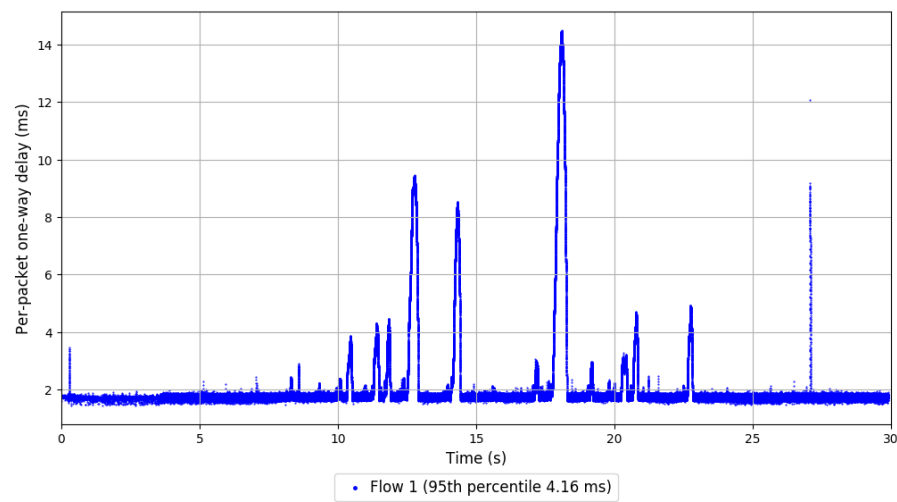
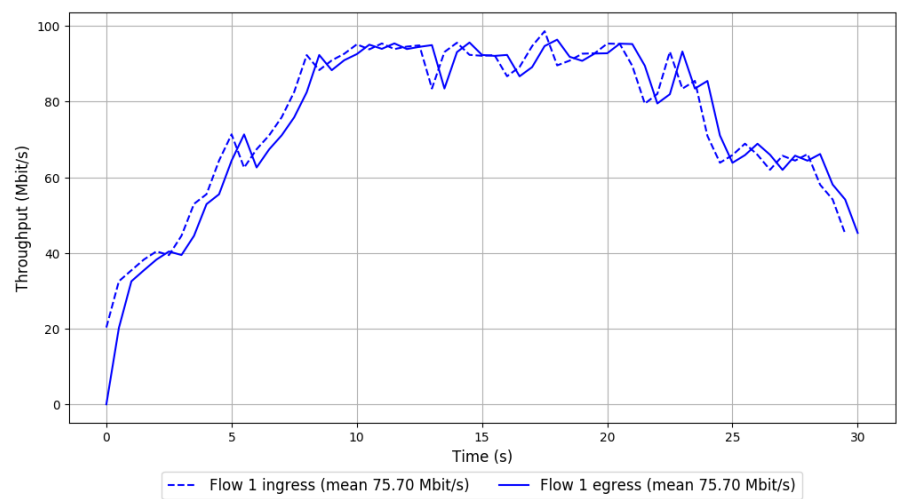
-- Flow 1:

Average throughput: 75.70 Mbit/s

95th percentile per-packet one-way delay: 4.162 ms

Loss rate: 0.00%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-08-27 23:17:37

End at: 2018-08-27 23:18:07

Local clock offset: -1.578 ms

Remote clock offset: 0.033 ms

Below is generated by plot.py at 2018-08-27 23:59:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.58 Mbit/s

95th percentile per-packet one-way delay: 2.076 ms

Loss rate: 0.00%

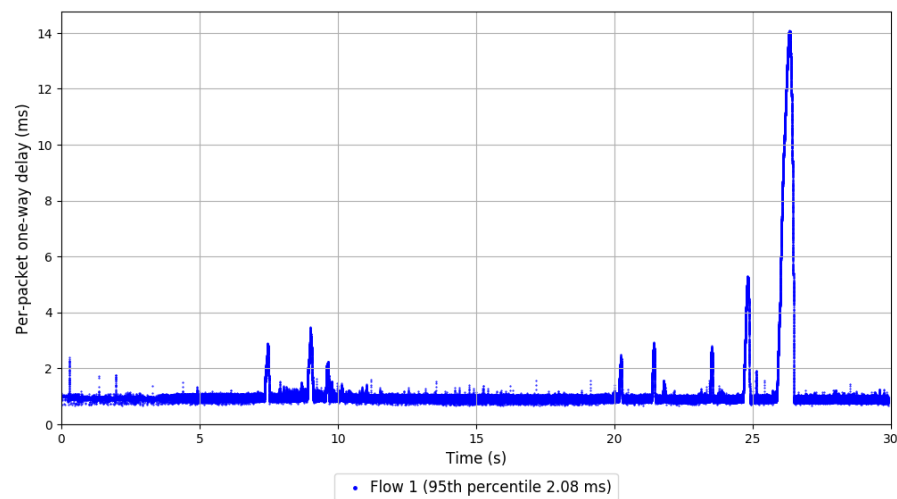
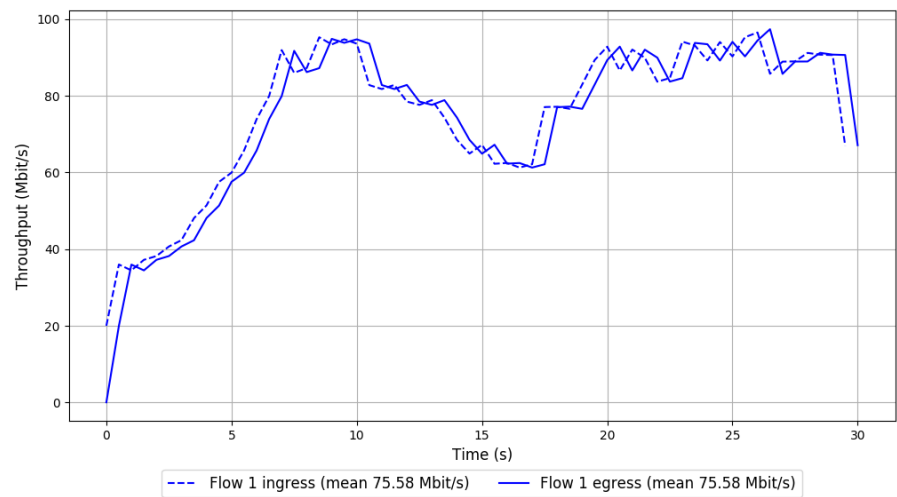
-- Flow 1:

Average throughput: 75.58 Mbit/s

95th percentile per-packet one-way delay: 2.076 ms

Loss rate: 0.00%

Run 9: Report of PCC-Allegro — Data Link

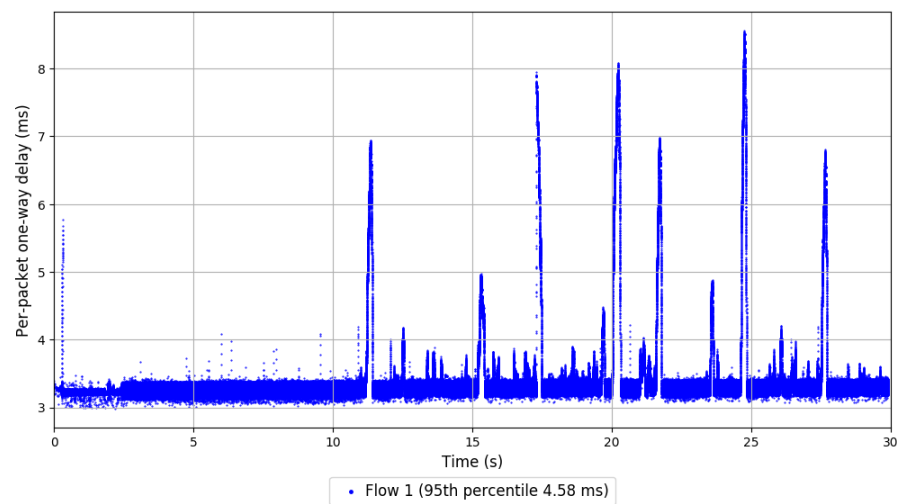
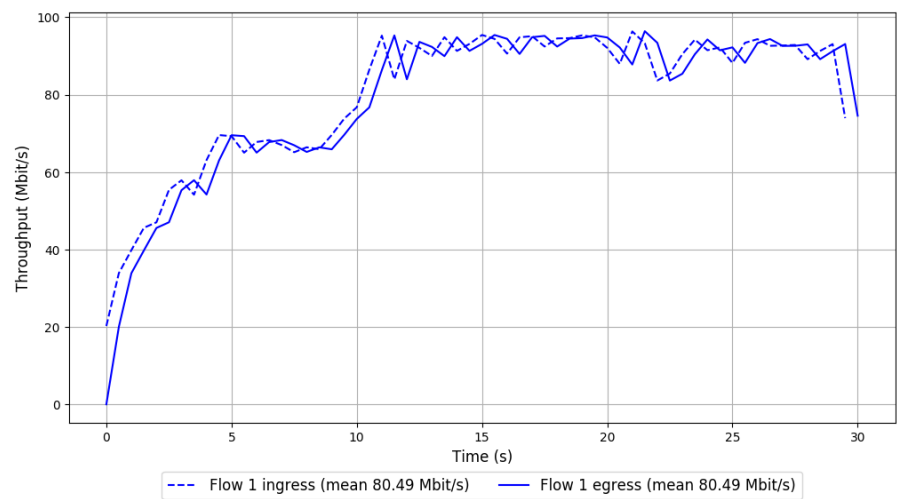


Run 10: Statistics of PCC-Allegro

Start at: 2018-08-27 23:36:27
End at: 2018-08-27 23:36:57
Local clock offset: -3.495 ms
Remote clock offset: -0.004 ms

Below is generated by plot.py at 2018-08-27 23:59:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 80.49 Mbit/s
95th percentile per-packet one-way delay: 4.585 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 80.49 Mbit/s
95th percentile per-packet one-way delay: 4.585 ms
Loss rate: 0.00%

Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

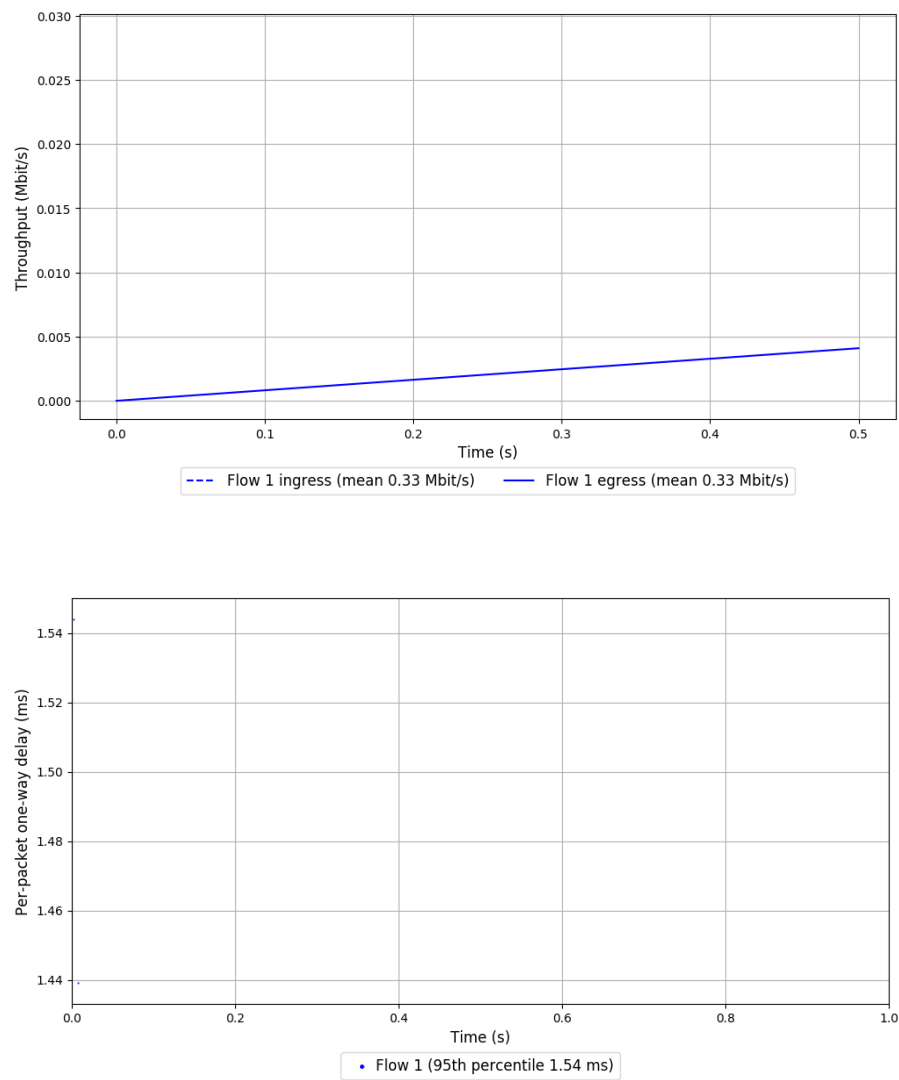
Start at: 2018-08-27 20:42:04

End at: 2018-08-27 20:42:34

Local clock offset: 2.717 ms

Remote clock offset: -0.05 ms

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-08-27 21:00:47

End at: 2018-08-27 21:01:17

Local clock offset: 1.558 ms

Remote clock offset: 0.027 ms

Below is generated by plot.py at 2018-08-27 23:59:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.11 Mbit/s

95th percentile per-packet one-way delay: 3.337 ms

Loss rate: 4.94%

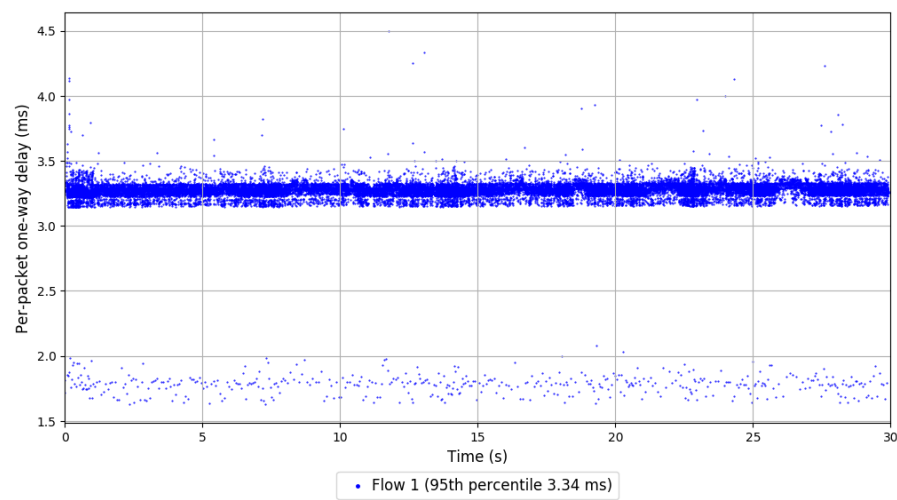
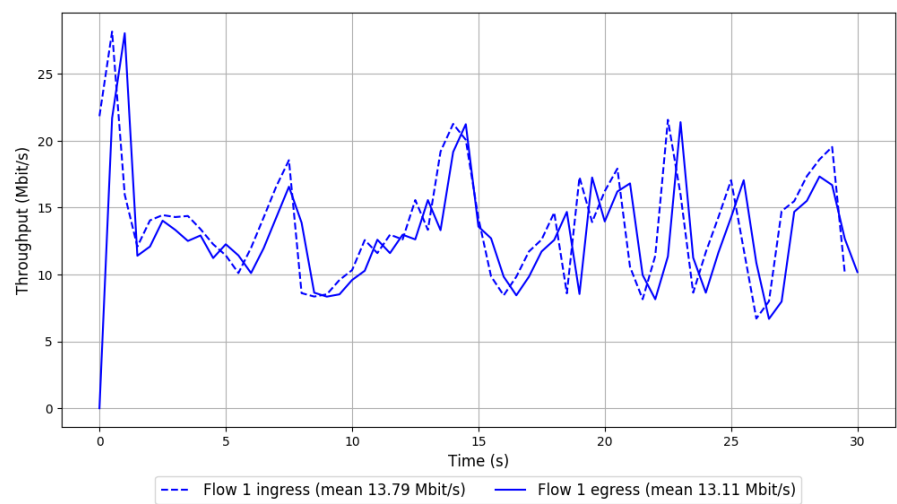
-- Flow 1:

Average throughput: 13.11 Mbit/s

95th percentile per-packet one-way delay: 3.337 ms

Loss rate: 4.94%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-08-27 21:19:35

End at: 2018-08-27 21:20:05

Local clock offset: 1.679 ms

Remote clock offset: 0.131 ms

Below is generated by plot.py at 2018-08-27 23:59:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.02 Mbit/s

95th percentile per-packet one-way delay: 1.011 ms

Loss rate: 20.17%

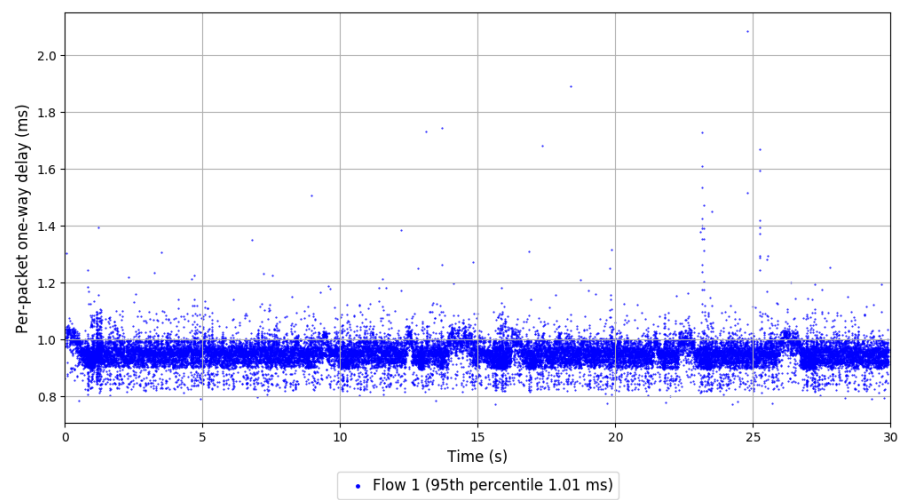
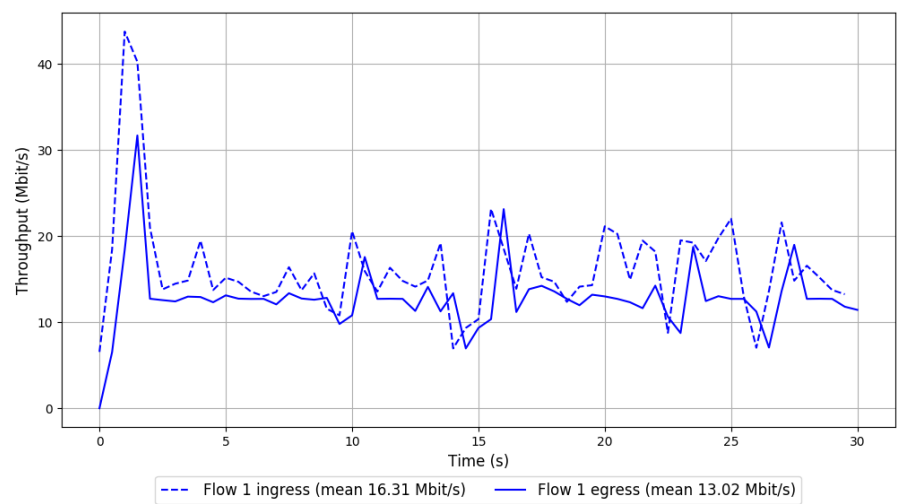
-- Flow 1:

Average throughput: 13.02 Mbit/s

95th percentile per-packet one-way delay: 1.011 ms

Loss rate: 20.17%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-08-27 21:38:20

End at: 2018-08-27 21:38:51

Local clock offset: 3.828 ms

Remote clock offset: 0.183 ms

Below is generated by plot.py at 2018-08-27 23:59:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.12 Mbit/s

95th percentile per-packet one-way delay: 2.036 ms

Loss rate: 17.22%

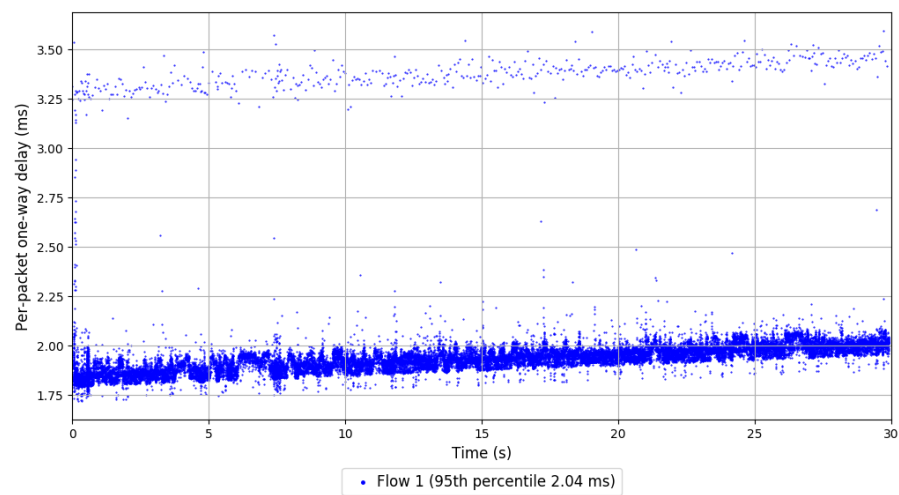
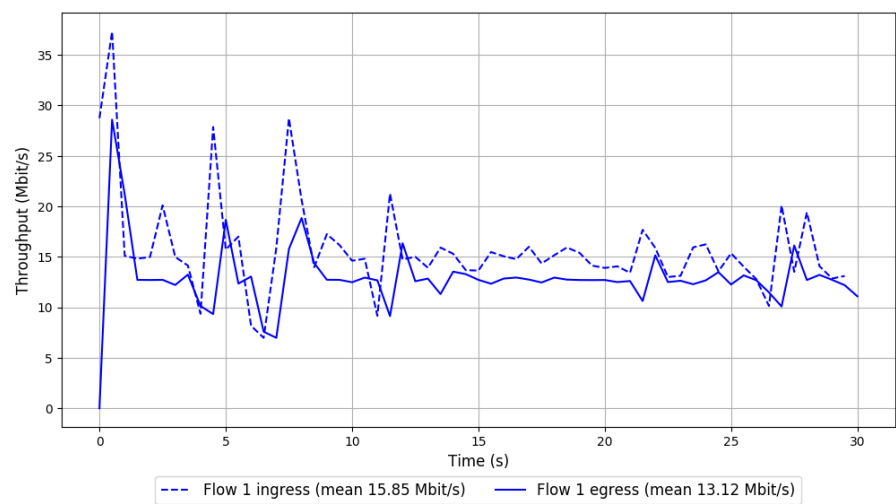
-- Flow 1:

Average throughput: 13.12 Mbit/s

95th percentile per-packet one-way delay: 2.036 ms

Loss rate: 17.22%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-08-27 21:57:05

End at: 2018-08-27 21:57:35

Local clock offset: 8.024 ms

Remote clock offset: 0.14 ms

Below is generated by plot.py at 2018-08-27 23:59:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.35 Mbit/s

95th percentile per-packet one-way delay: 1.222 ms

Loss rate: 26.09%

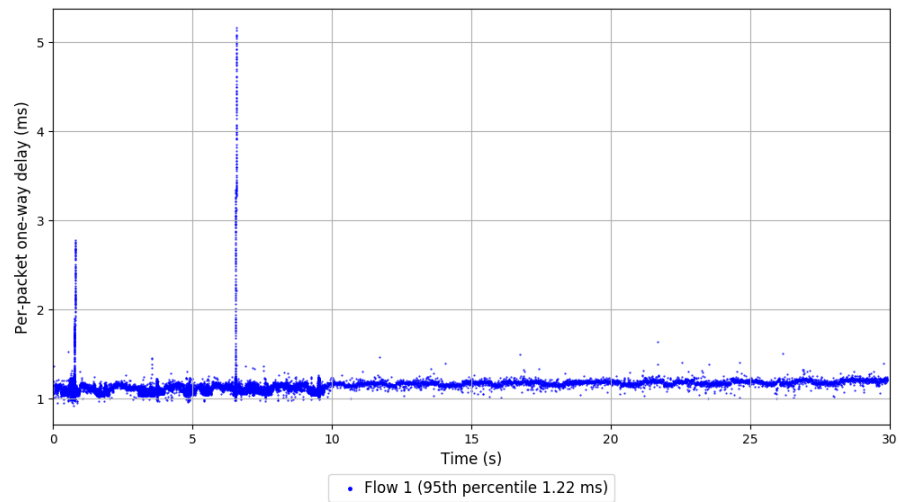
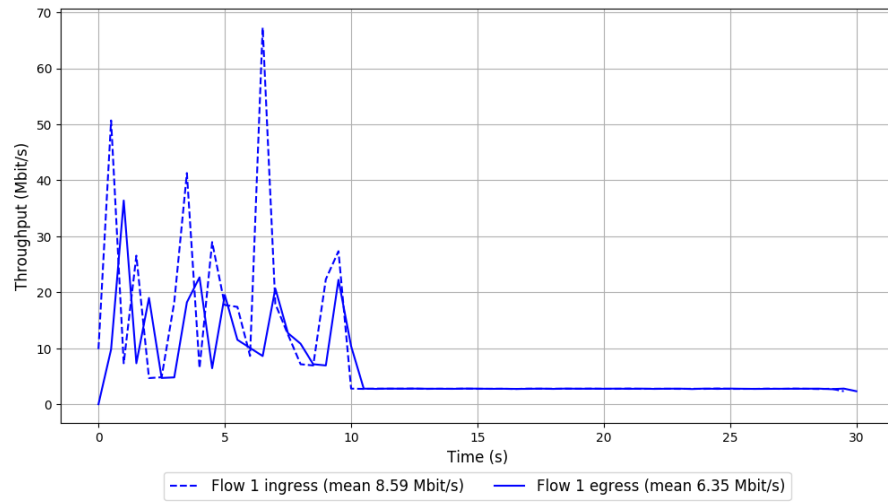
-- Flow 1:

Average throughput: 6.35 Mbit/s

95th percentile per-packet one-way delay: 1.222 ms

Loss rate: 26.09%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-08-27 22:15:50

End at: 2018-08-27 22:16:20

Local clock offset: 4.322 ms

Remote clock offset: 0.067 ms

Below is generated by plot.py at 2018-08-27 23:59:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.12 Mbit/s

95th percentile per-packet one-way delay: 3.135 ms

Loss rate: 15.60%

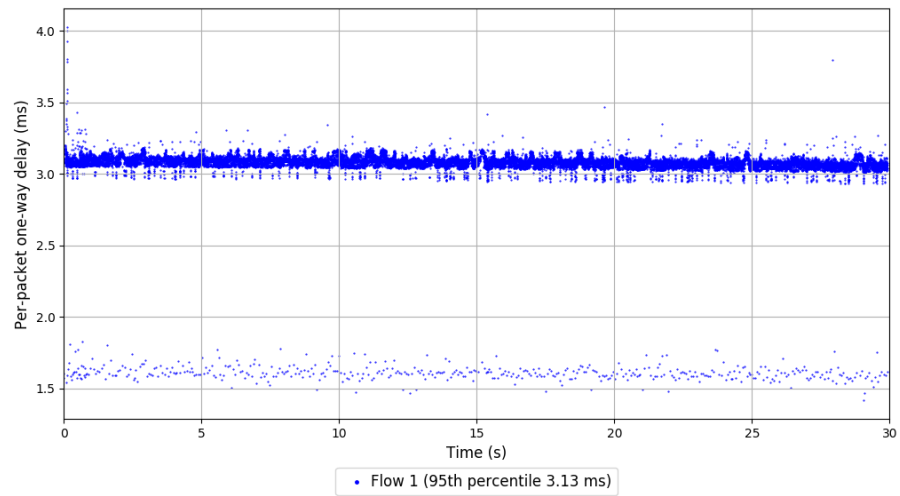
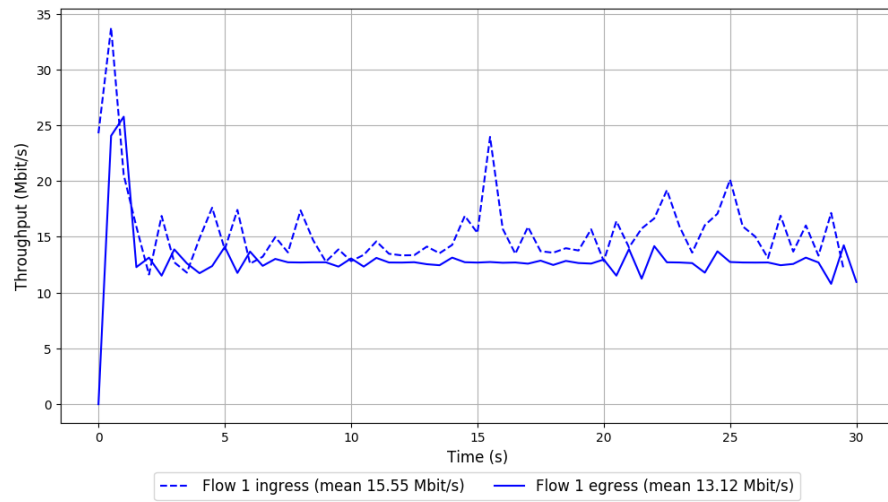
-- Flow 1:

Average throughput: 13.12 Mbit/s

95th percentile per-packet one-way delay: 3.135 ms

Loss rate: 15.60%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-08-27 22:34:36

End at: 2018-08-27 22:35:06

Local clock offset: 4.351 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-08-27 23:59:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.12 Mbit/s

95th percentile per-packet one-way delay: 2.435 ms

Loss rate: 20.30%

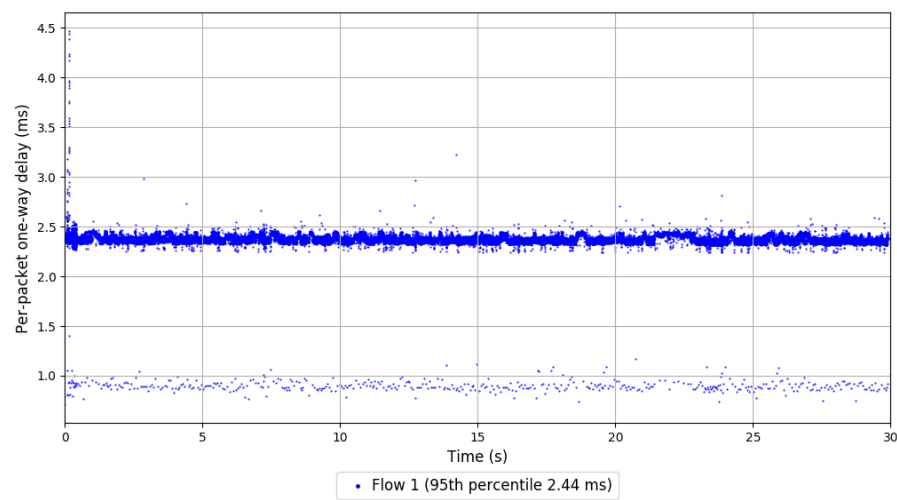
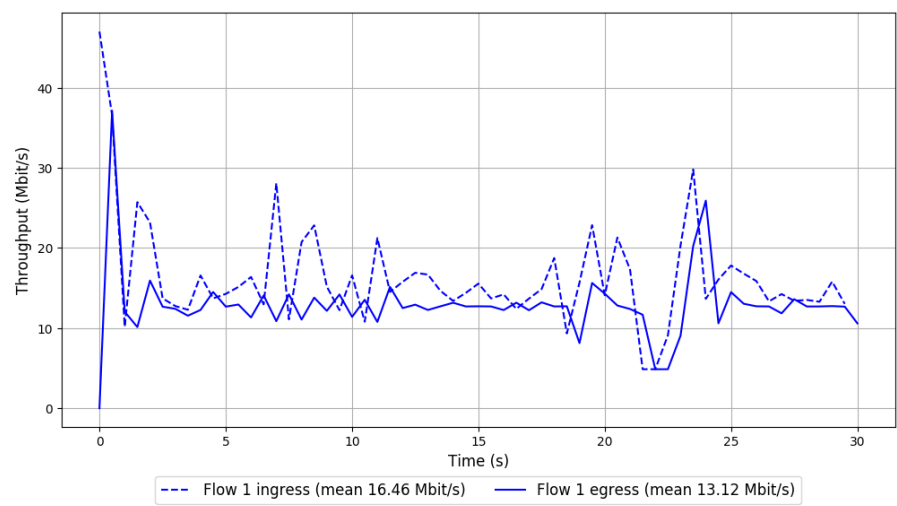
-- Flow 1:

Average throughput: 13.12 Mbit/s

95th percentile per-packet one-way delay: 2.435 ms

Loss rate: 20.30%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-08-27 22:53:22

End at: 2018-08-27 22:53:52

Local clock offset: 4.129 ms

Remote clock offset: 0.056 ms

Below is generated by plot.py at 2018-08-27 23:59:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.63 Mbit/s

95th percentile per-packet one-way delay: 2.919 ms

Loss rate: 39.12%

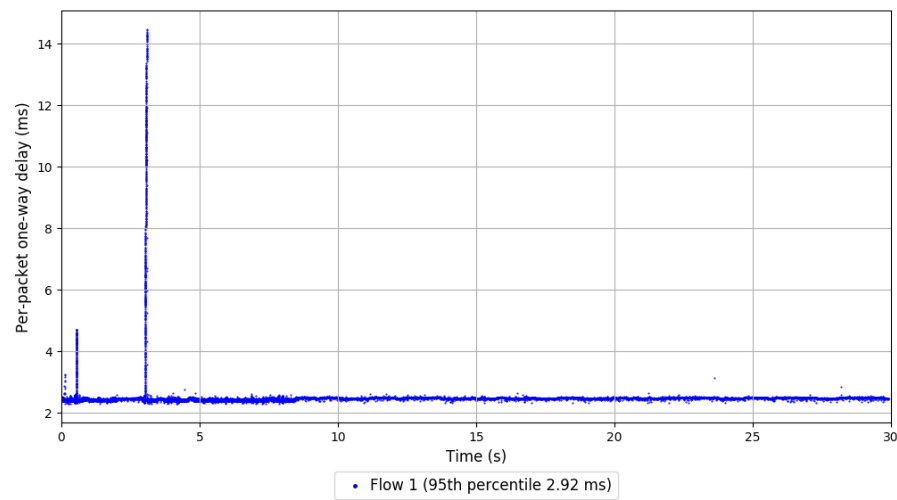
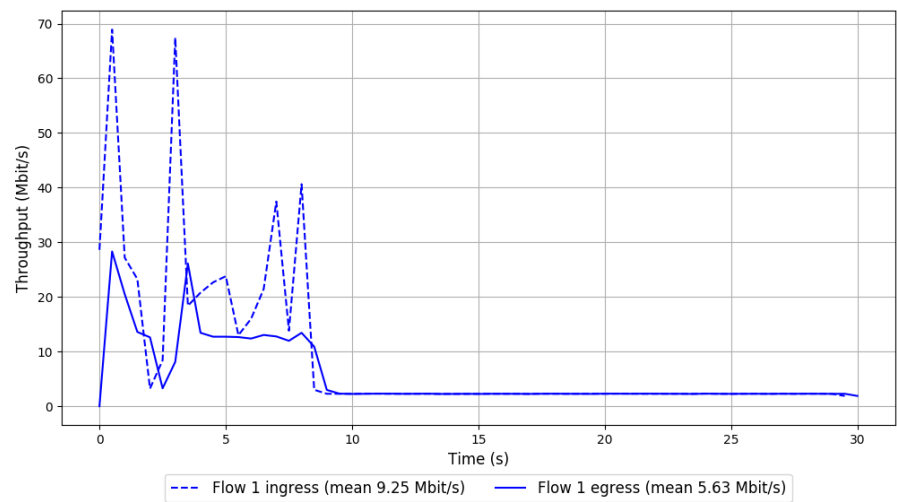
-- Flow 1:

Average throughput: 5.63 Mbit/s

95th percentile per-packet one-way delay: 2.919 ms

Loss rate: 39.12%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-08-27 23:12:06

End at: 2018-08-27 23:12:36

Local clock offset: -1.133 ms

Remote clock offset: 0.055 ms

Below is generated by plot.py at 2018-08-27 23:59:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 3.171 ms

Loss rate: 22.37%

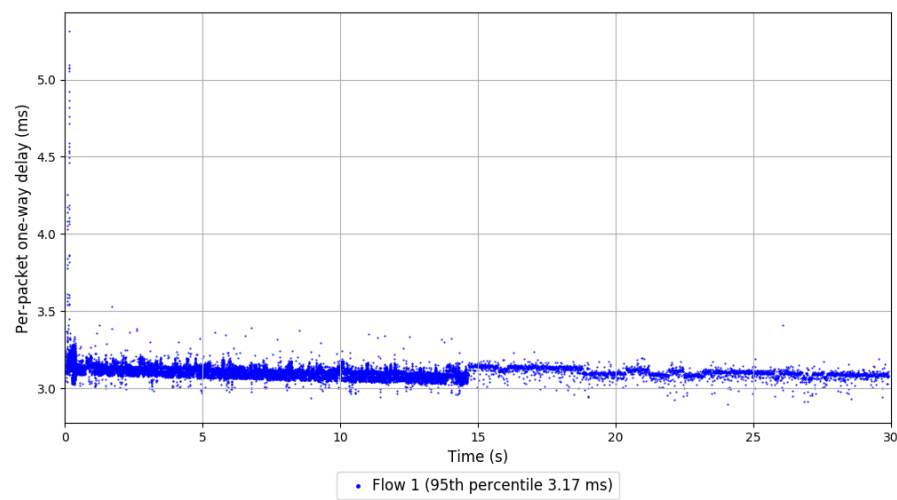
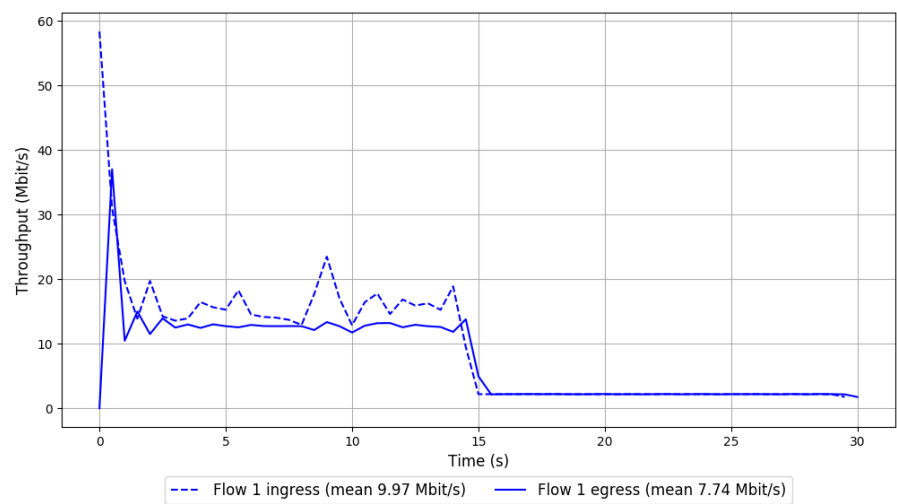
-- Flow 1:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 3.171 ms

Loss rate: 22.37%

Run 9: Report of PCC-Expr — Data Link

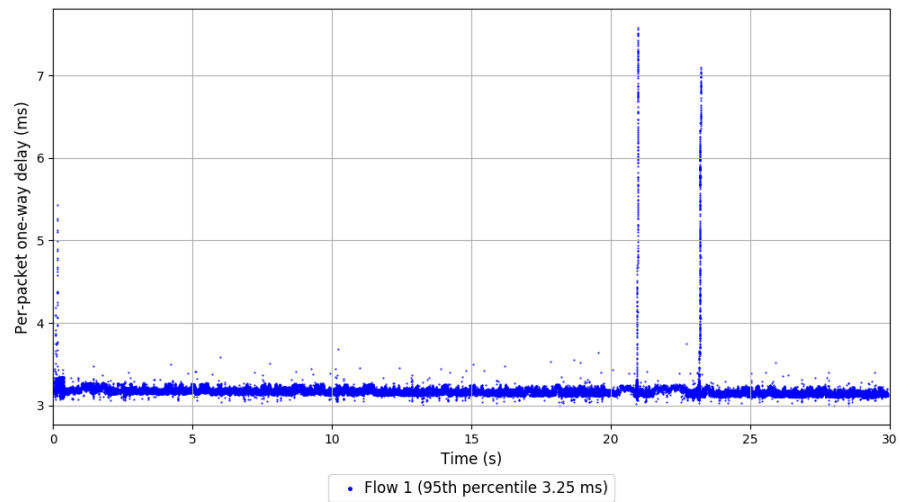
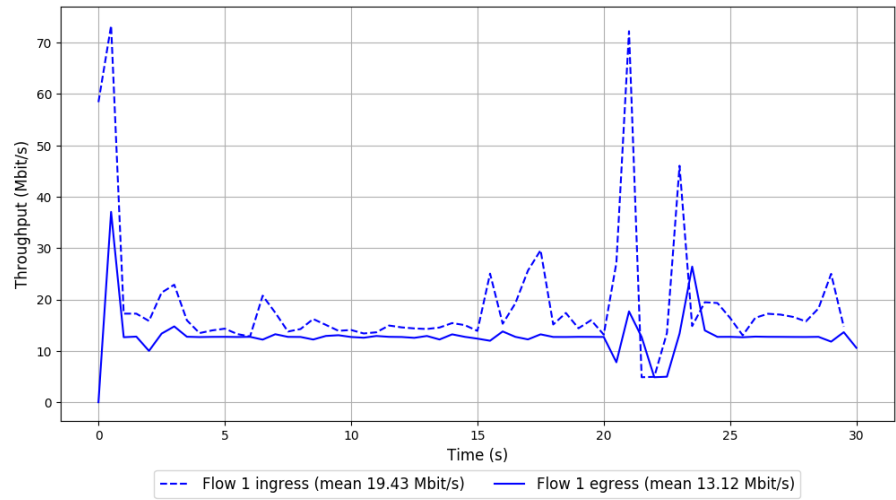


Run 10: Statistics of PCC-Expr

Start at: 2018-08-27 23:30:56
End at: 2018-08-27 23:31:26
Local clock offset: -4.022 ms
Remote clock offset: -0.007 ms

Below is generated by plot.py at 2018-08-27 23:59:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.12 Mbit/s
95th percentile per-packet one-way delay: 3.248 ms
Loss rate: 32.49%
-- Flow 1:
Average throughput: 13.12 Mbit/s
95th percentile per-packet one-way delay: 3.248 ms
Loss rate: 32.49%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

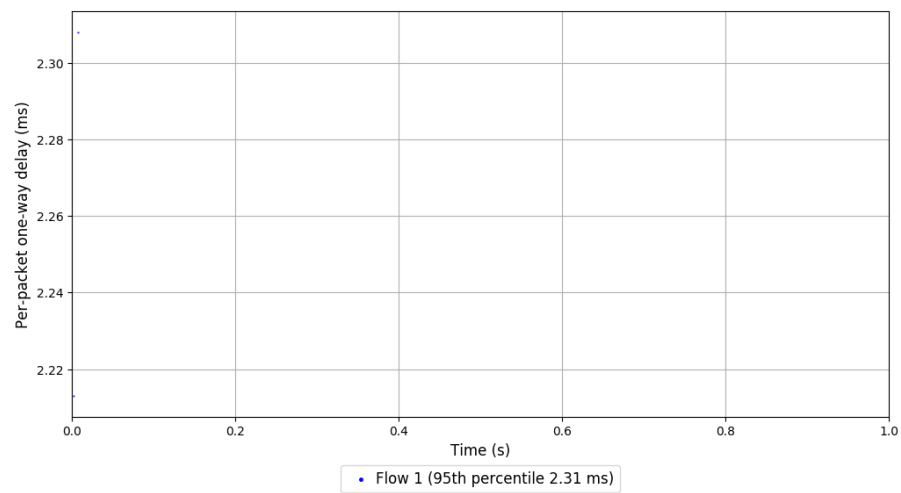
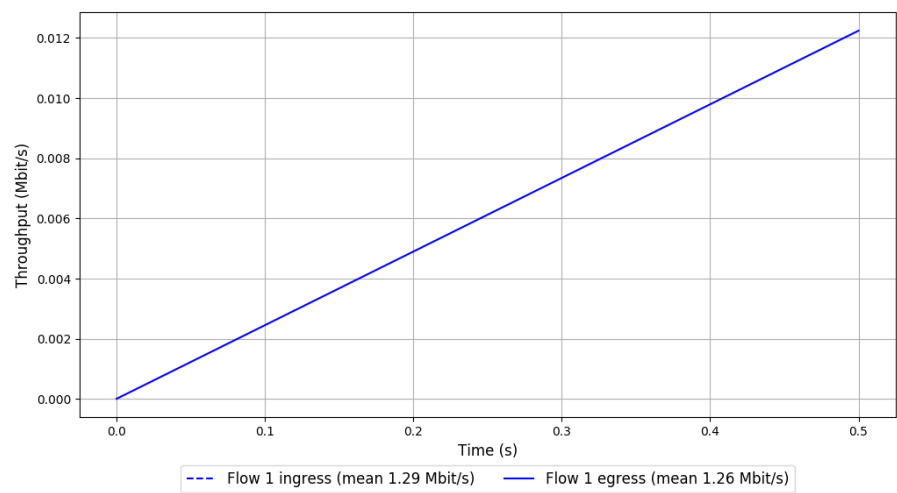
Start at: 2018-08-27 20:50:54

End at: 2018-08-27 20:51:24

Local clock offset: 2.132 ms

Remote clock offset: -0.112 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-08-27 21:09:35

End at: 2018-08-27 21:10:06

Local clock offset: 1.883 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2018-08-28 00:00:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.51 Mbit/s

95th percentile per-packet one-way delay: 3.305 ms

Loss rate: 0.00%

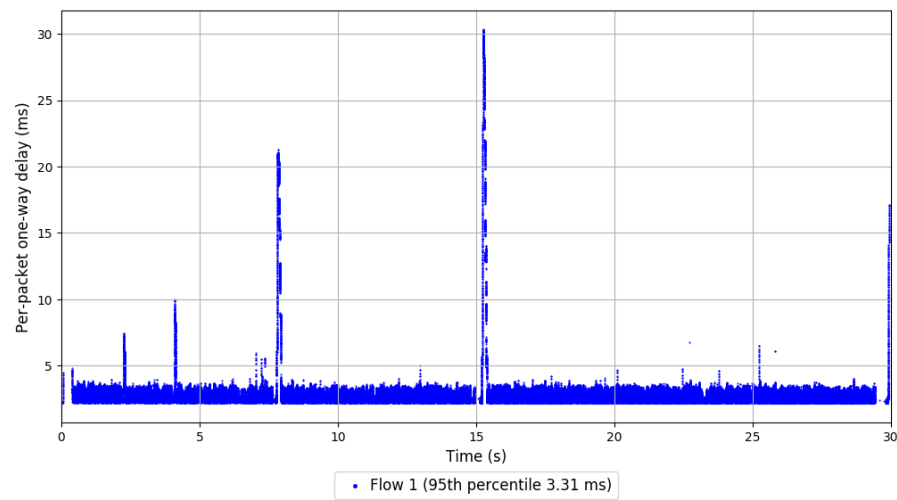
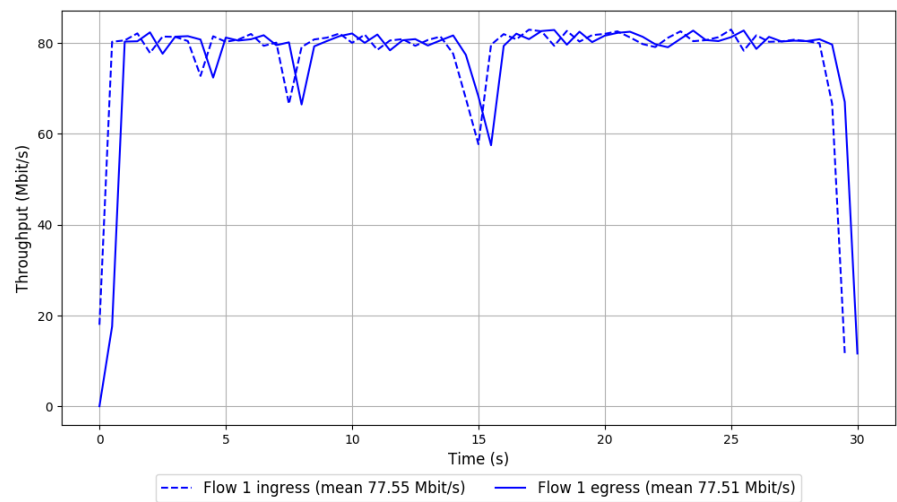
-- Flow 1:

Average throughput: 77.51 Mbit/s

95th percentile per-packet one-way delay: 3.305 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-08-27 21:28:26

End at: 2018-08-27 21:28:56

Local clock offset: 2.427 ms

Remote clock offset: 0.188 ms

Below is generated by plot.py at 2018-08-28 00:00:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.87 Mbit/s

95th percentile per-packet one-way delay: 1.295 ms

Loss rate: 0.08%

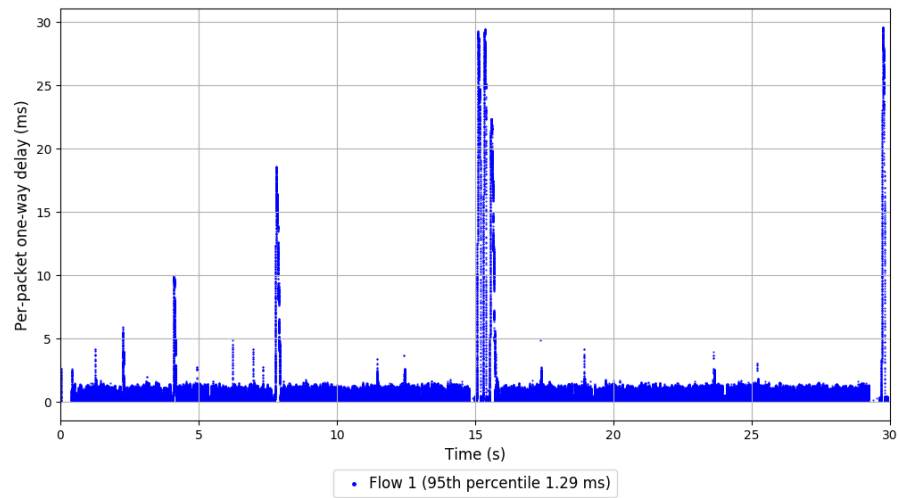
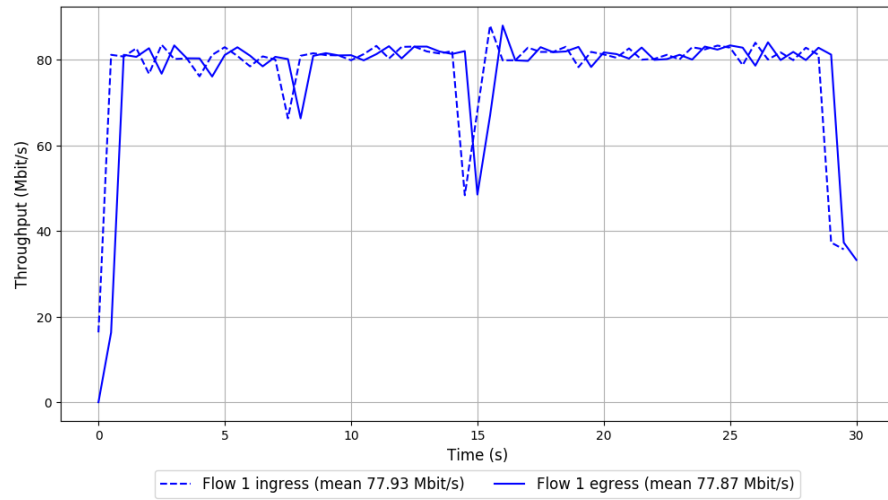
-- Flow 1:

Average throughput: 77.87 Mbit/s

95th percentile per-packet one-way delay: 1.295 ms

Loss rate: 0.08%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-08-27 21:47:11

End at: 2018-08-27 21:47:41

Local clock offset: 6.724 ms

Remote clock offset: 0.226 ms

Below is generated by plot.py at 2018-08-28 00:00:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.32 Mbit/s

95th percentile per-packet one-way delay: 4.246 ms

Loss rate: 0.25%

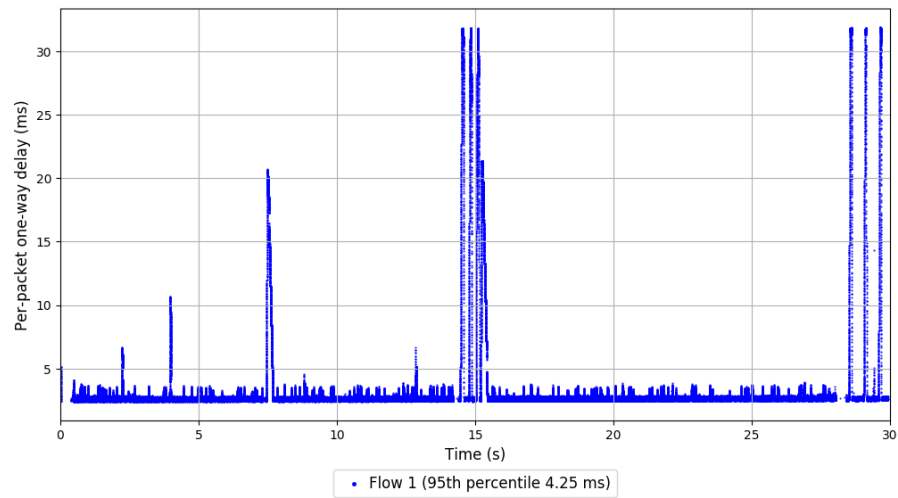
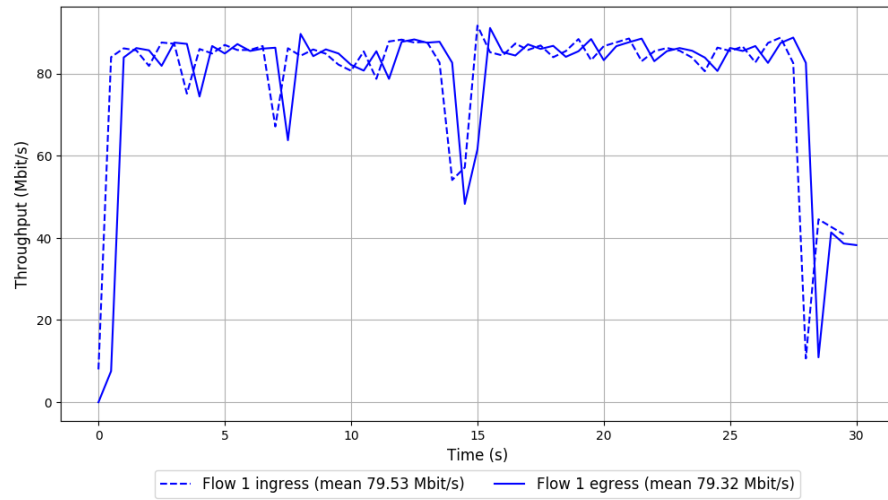
-- Flow 1:

Average throughput: 79.32 Mbit/s

95th percentile per-packet one-way delay: 4.246 ms

Loss rate: 0.25%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-08-27 22:05:56

End at: 2018-08-27 22:06:26

Local clock offset: 6.952 ms

Remote clock offset: 0.058 ms

Below is generated by plot.py at 2018-08-28 00:00:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.38 Mbit/s

95th percentile per-packet one-way delay: 8.224 ms

Loss rate: 0.35%

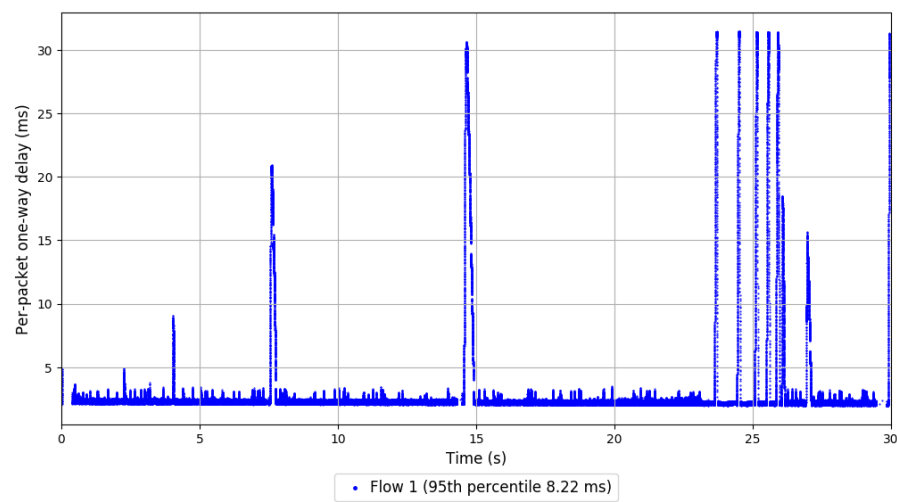
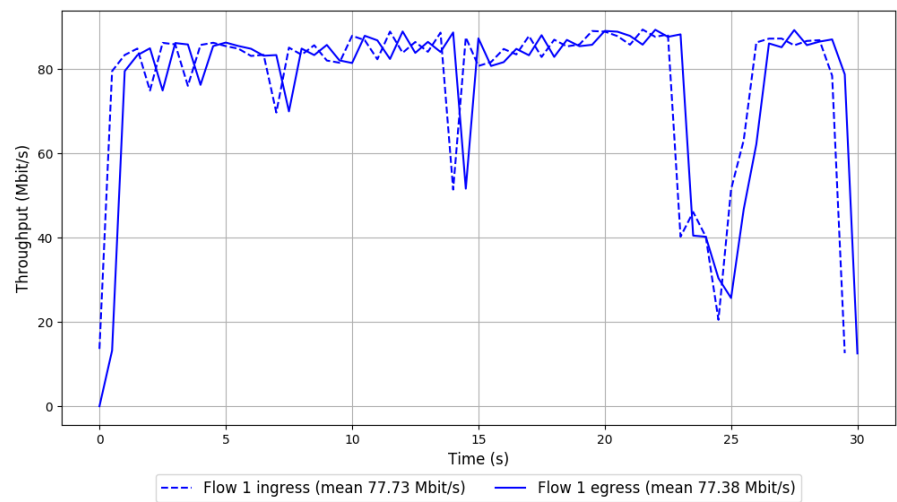
-- Flow 1:

Average throughput: 77.38 Mbit/s

95th percentile per-packet one-way delay: 8.224 ms

Loss rate: 0.35%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-08-27 22:24:42

End at: 2018-08-27 22:25:12

Local clock offset: 3.744 ms

Remote clock offset: 0.066 ms

Below is generated by plot.py at 2018-08-28 00:00:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.20 Mbit/s

95th percentile per-packet one-way delay: 5.293 ms

Loss rate: 0.25%

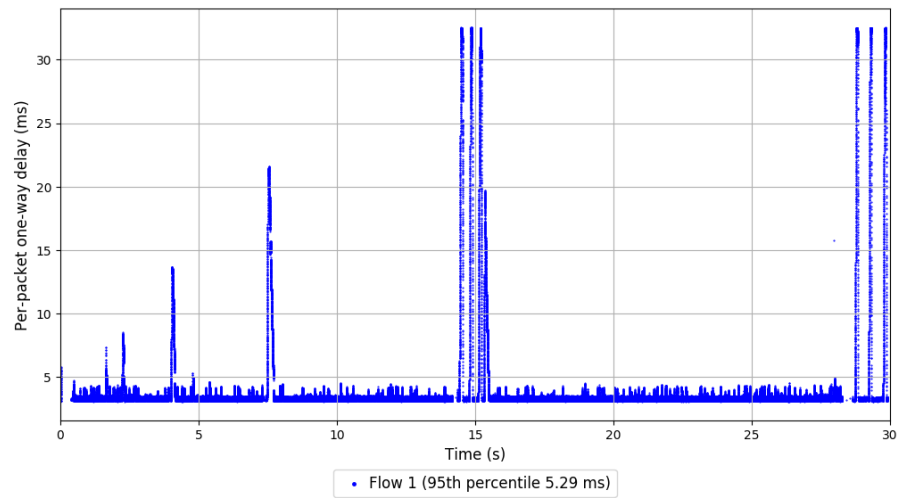
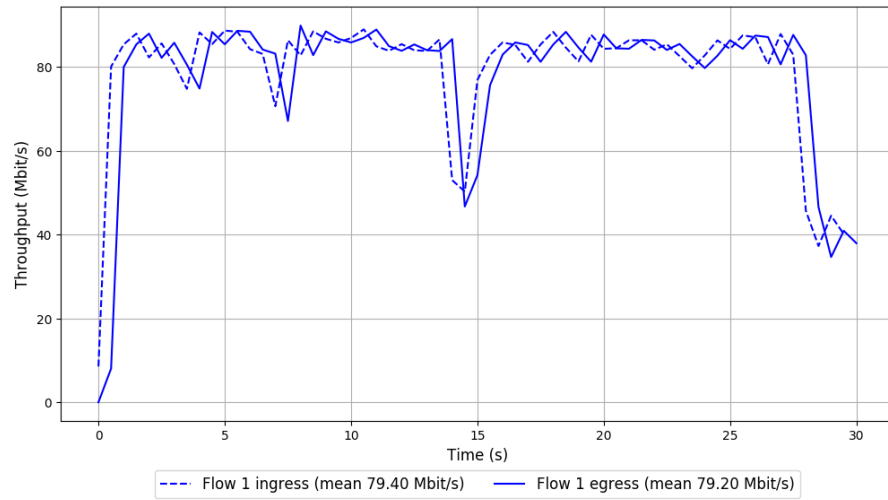
-- Flow 1:

Average throughput: 79.20 Mbit/s

95th percentile per-packet one-way delay: 5.293 ms

Loss rate: 0.25%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-08-27 22:43:28

End at: 2018-08-27 22:43:58

Local clock offset: 3.406 ms

Remote clock offset: -0.025 ms

Below is generated by plot.py at 2018-08-28 00:00:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.64 Mbit/s

95th percentile per-packet one-way delay: 4.021 ms

Loss rate: 0.19%

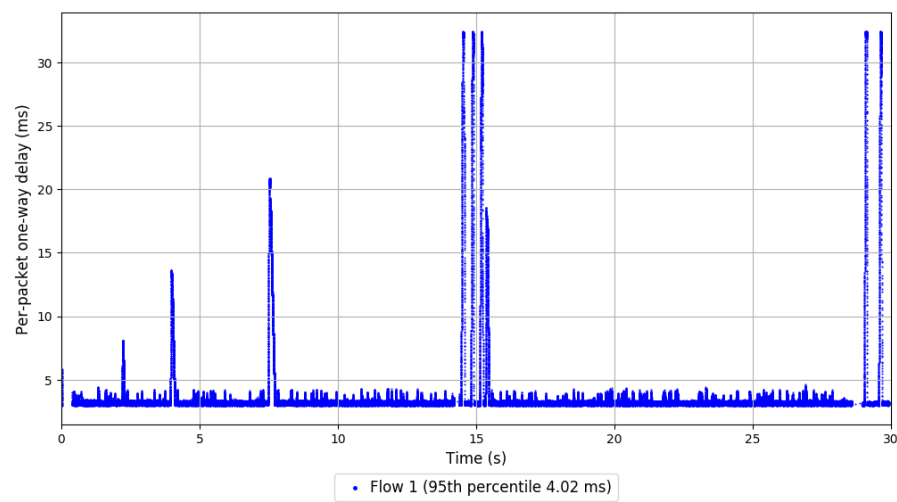
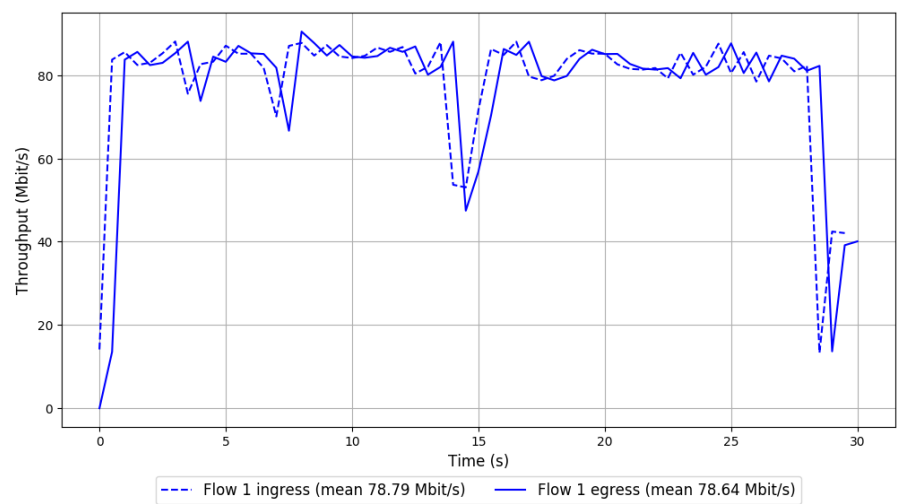
-- Flow 1:

Average throughput: 78.64 Mbit/s

95th percentile per-packet one-way delay: 4.021 ms

Loss rate: 0.19%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-08-27 23:02:12

End at: 2018-08-27 23:02:42

Local clock offset: 4.144 ms

Remote clock offset: -0.023 ms

Below is generated by plot.py at 2018-08-28 00:00:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.35 Mbit/s

95th percentile per-packet one-way delay: 1.371 ms

Loss rate: 0.35%

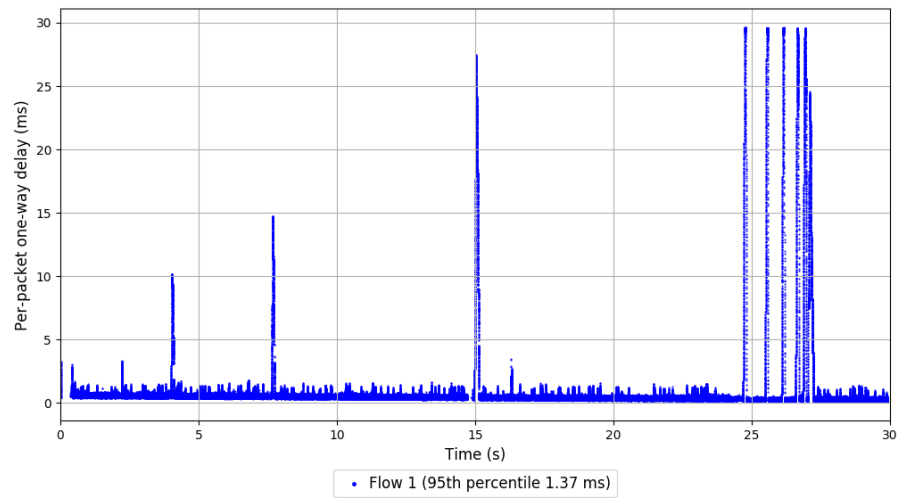
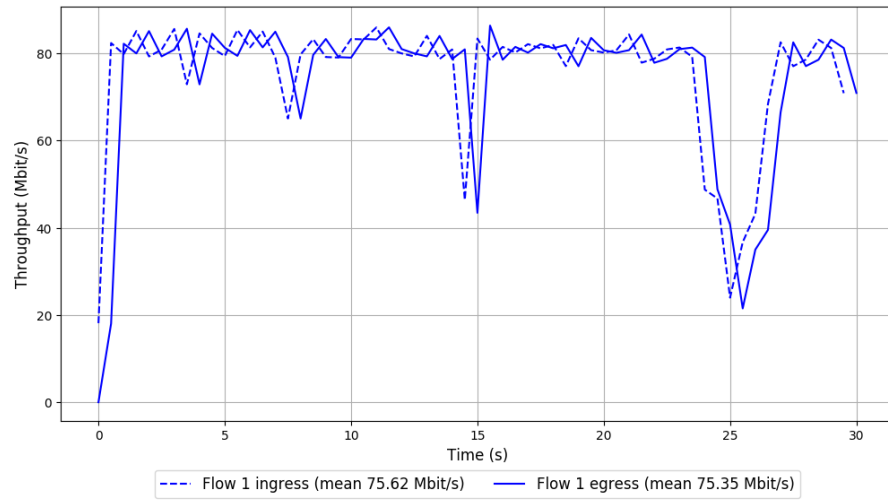
-- Flow 1:

Average throughput: 75.35 Mbit/s

95th percentile per-packet one-way delay: 1.371 ms

Loss rate: 0.35%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-08-27 23:21:02

End at: 2018-08-27 23:21:32

Local clock offset: -1.293 ms

Remote clock offset: 0.04 ms

Below is generated by plot.py at 2018-08-28 00:00:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.28 Mbit/s

95th percentile per-packet one-way delay: 4.621 ms

Loss rate: 0.13%

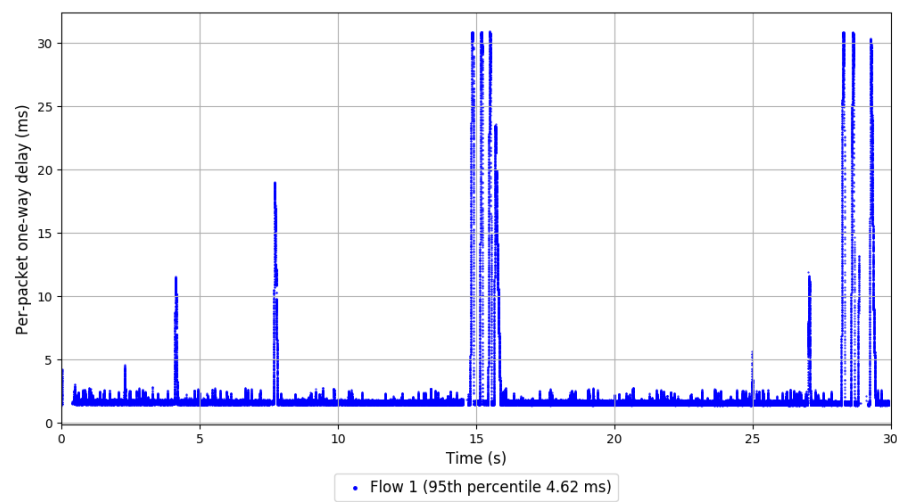
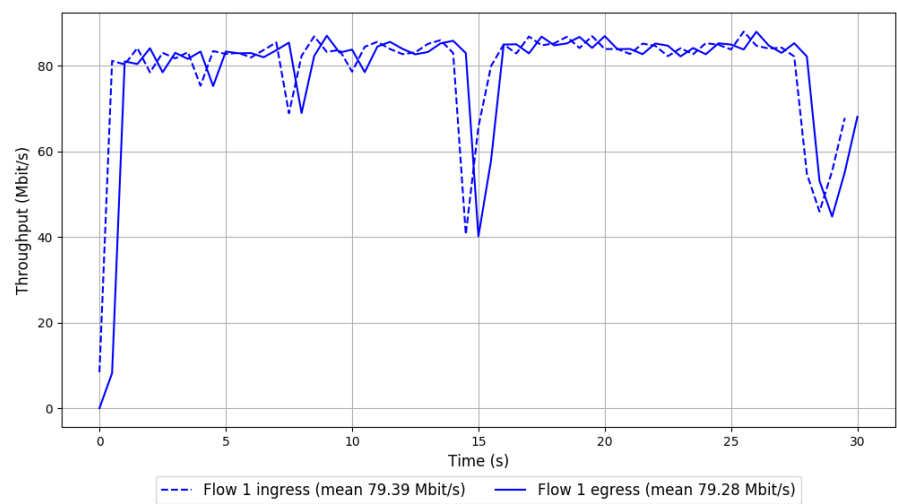
-- Flow 1:

Average throughput: 79.28 Mbit/s

95th percentile per-packet one-way delay: 4.621 ms

Loss rate: 0.13%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-08-27 23:39:47

End at: 2018-08-27 23:40:17

Local clock offset: -2.486 ms

Remote clock offset: -0.011 ms

Below is generated by plot.py at 2018-08-28 00:01:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.32 Mbit/s

95th percentile per-packet one-way delay: 2.573 ms

Loss rate: 0.33%

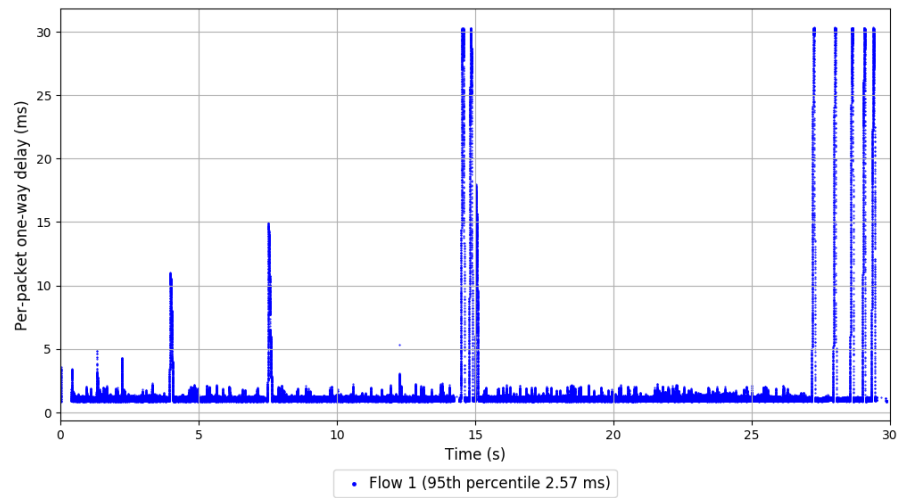
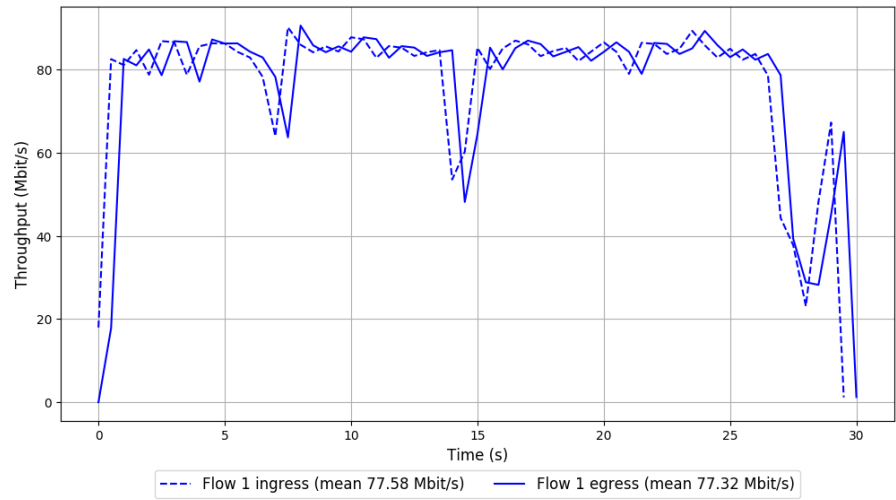
-- Flow 1:

Average throughput: 77.32 Mbit/s

95th percentile per-packet one-way delay: 2.573 ms

Loss rate: 0.33%

Run 10: Report of QUIC Cubic — Data Link

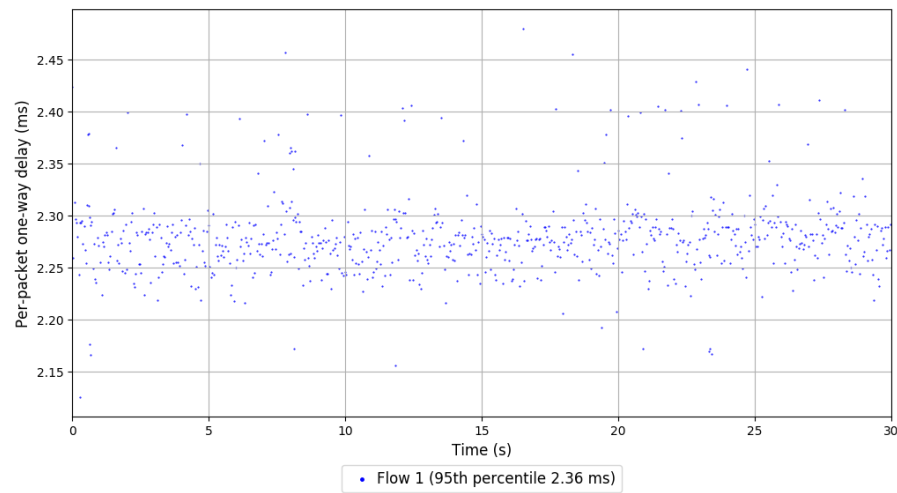
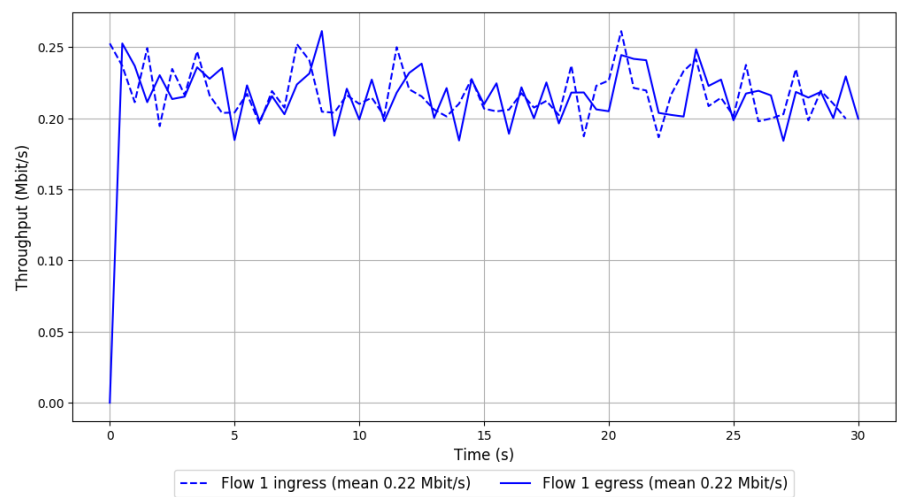


Run 1: Statistics of SCReAM

Start at: 2018-08-27 20:55:14
End at: 2018-08-27 20:55:44
Local clock offset: 2.245 ms
Remote clock offset: -0.078 ms

Below is generated by plot.py at 2018-08-28 00:01:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.362 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.362 ms
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-08-27 21:13:59

End at: 2018-08-27 21:14:29

Local clock offset: 1.732 ms

Remote clock offset: 0.107 ms

Below is generated by plot.py at 2018-08-28 00:01:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.486 ms

Loss rate: 0.00%

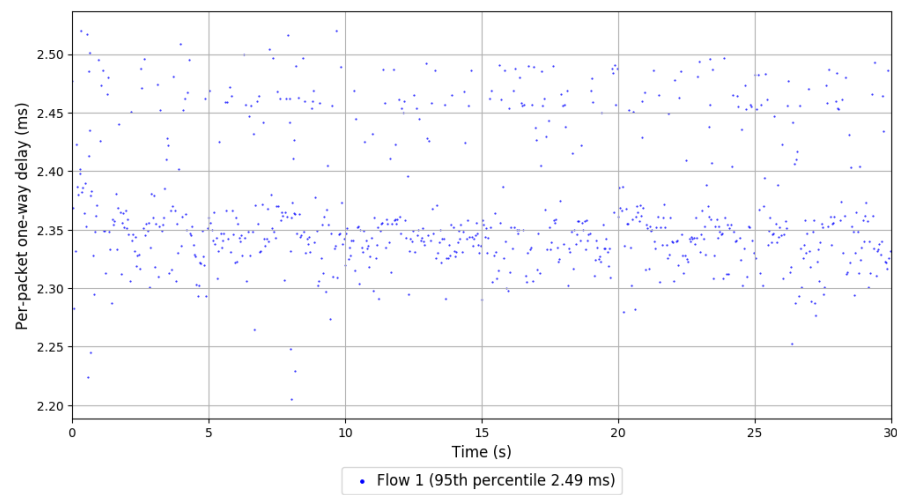
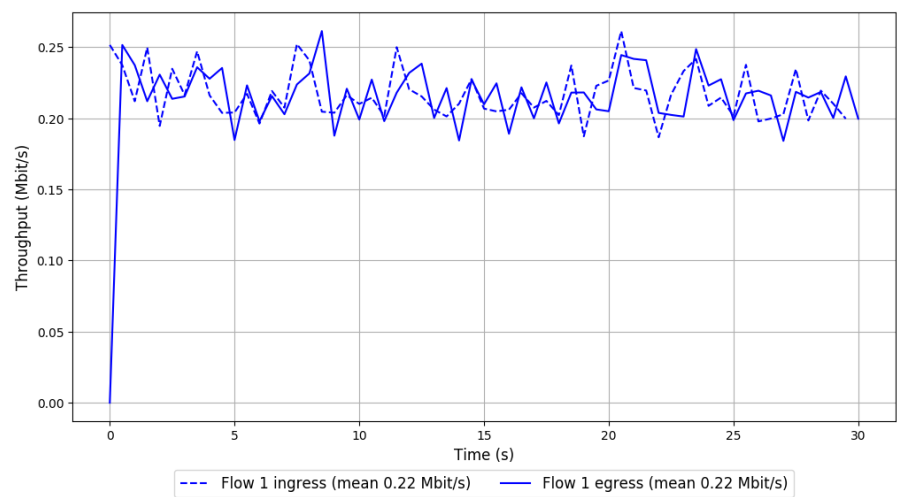
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.486 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-08-27 21:32:49

End at: 2018-08-27 21:33:19

Local clock offset: 1.961 ms

Remote clock offset: 0.202 ms

Below is generated by plot.py at 2018-08-28 00:01:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.625 ms

Loss rate: 0.00%

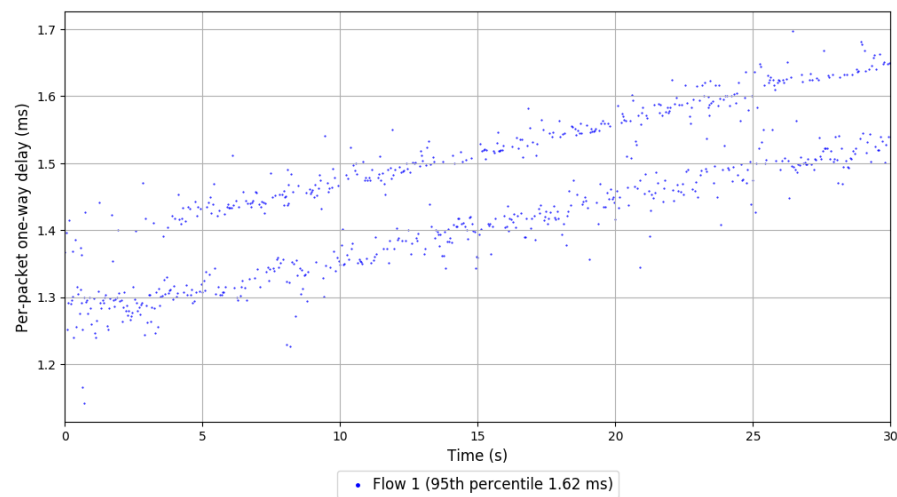
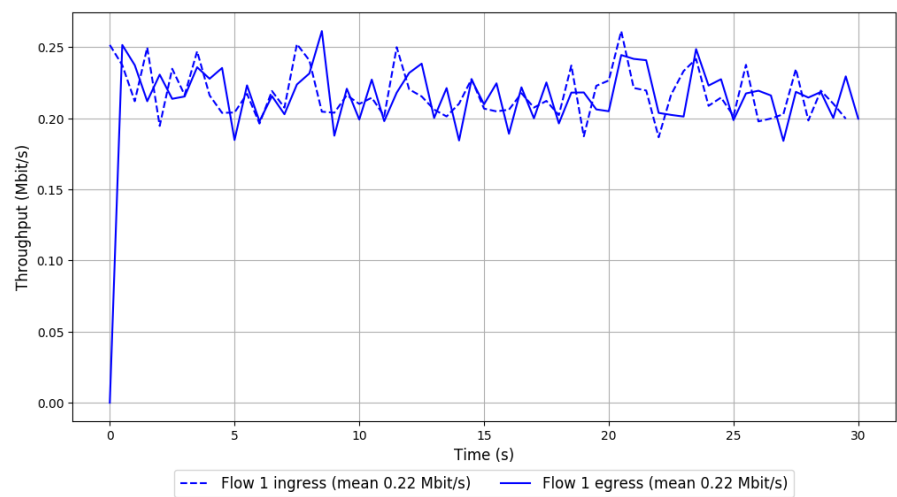
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.625 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-08-27 21:51:34

End at: 2018-08-27 21:52:04

Local clock offset: 8.218 ms

Remote clock offset: 0.24 ms

Below is generated by plot.py at 2018-08-28 00:01:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 0.374 ms

Loss rate: 0.00%

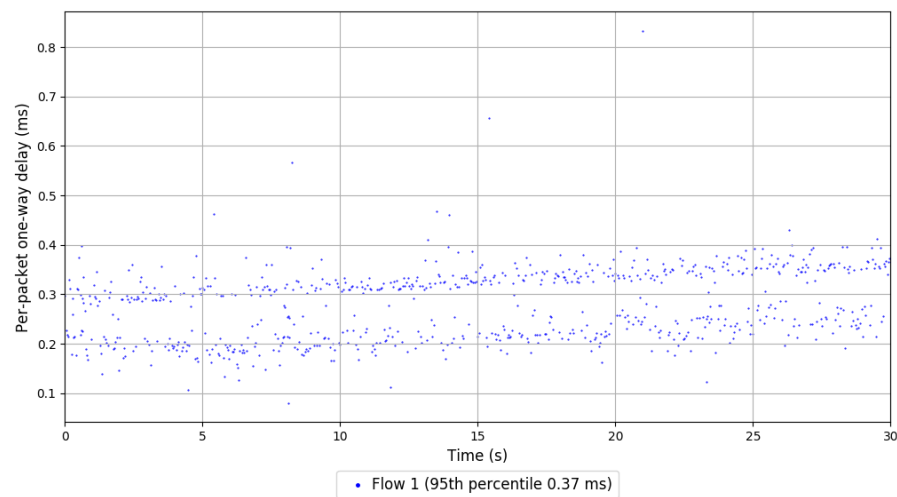
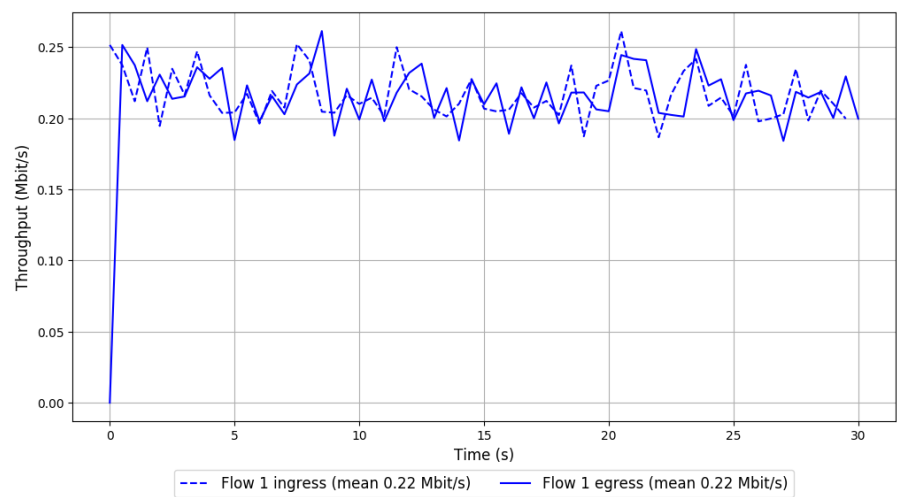
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 0.374 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-08-27 22:10:19

End at: 2018-08-27 22:10:49

Local clock offset: 5.022 ms

Remote clock offset: 0.124 ms

Below is generated by plot.py at 2018-08-28 00:01:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 3.220 ms

Loss rate: 0.00%

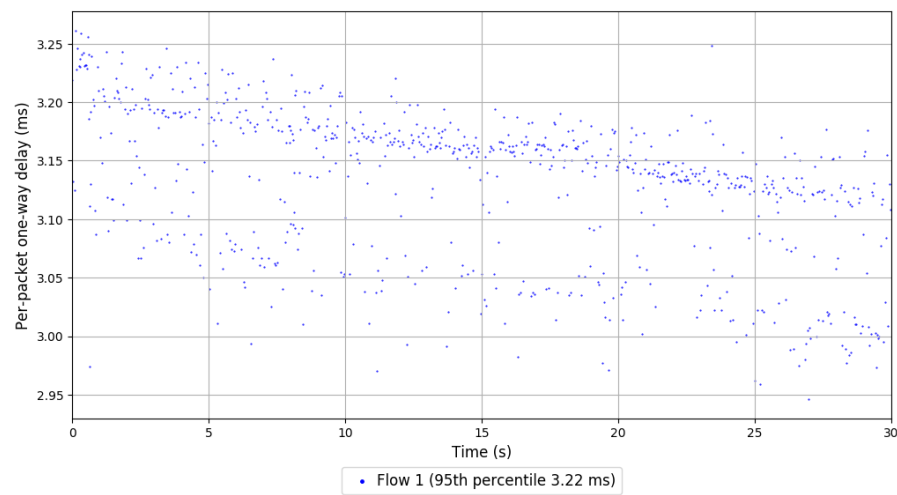
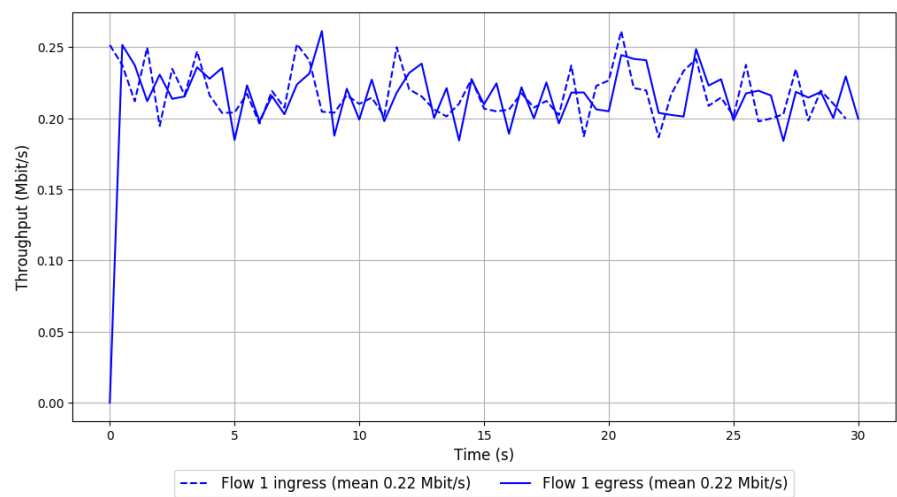
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 3.220 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

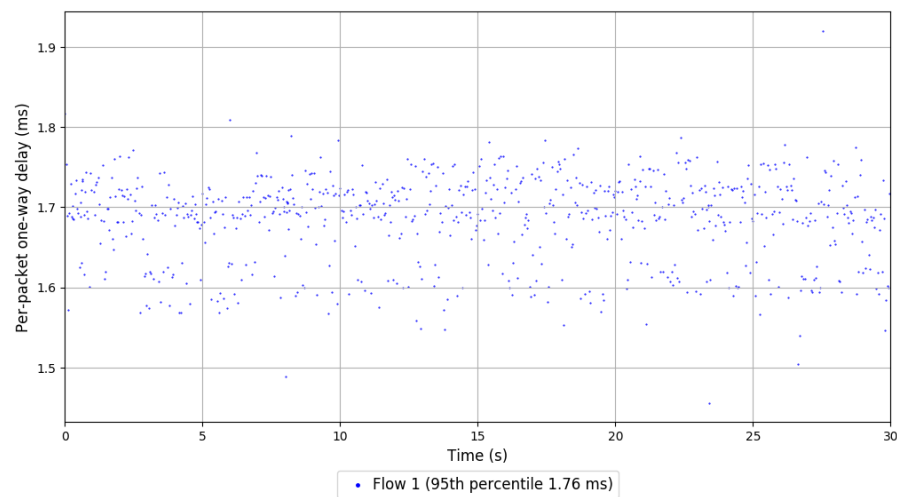
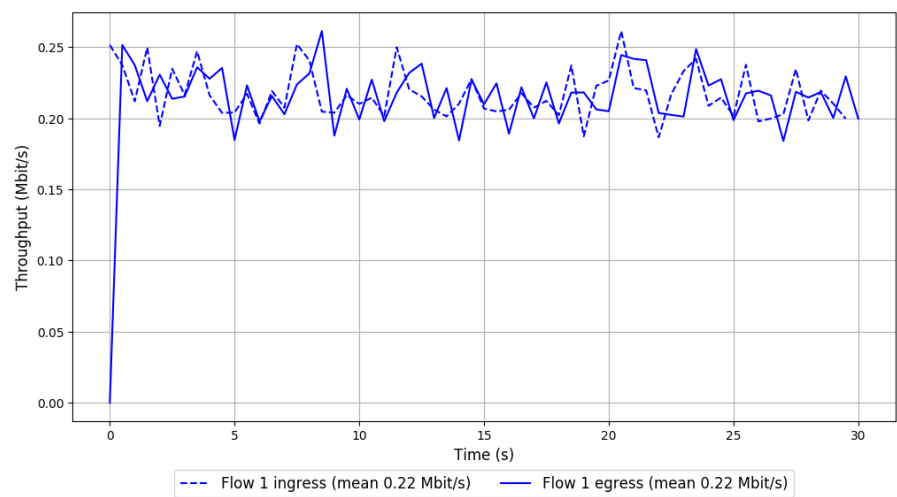


Run 6: Statistics of SCReAM

Start at: 2018-08-27 22:29:05
End at: 2018-08-27 22:29:35
Local clock offset: 3.677 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2018-08-28 00:01:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.756 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.756 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-08-27 22:47:51

End at: 2018-08-27 22:48:21

Local clock offset: 3.302 ms

Remote clock offset: 0.073 ms

Below is generated by plot.py at 2018-08-28 00:01:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 3.360 ms

Loss rate: 0.00%

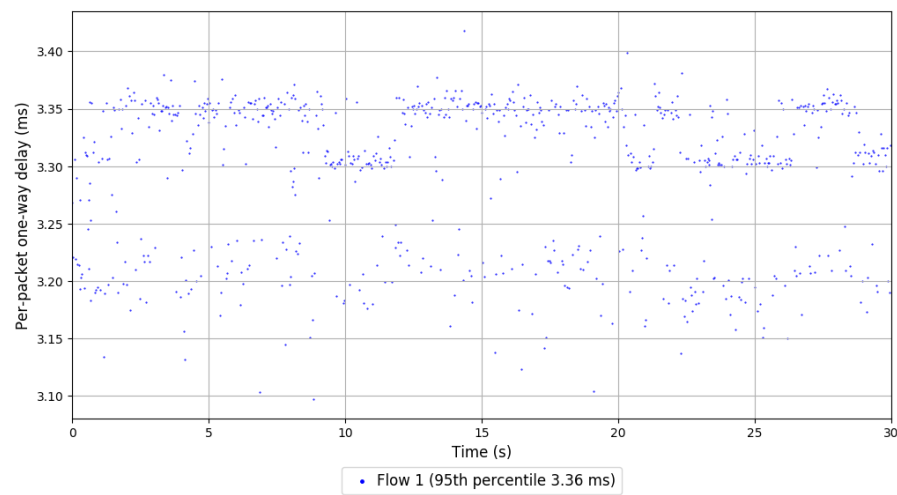
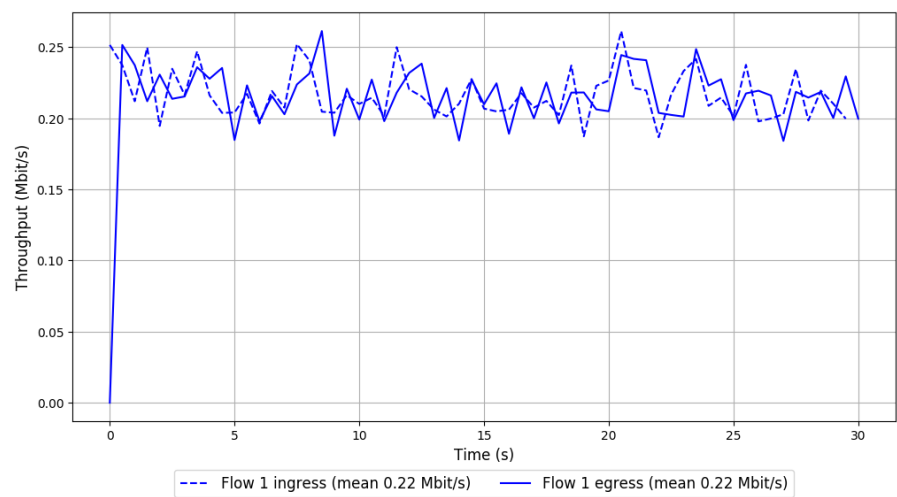
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 3.360 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-08-27 23:06:34

End at: 2018-08-27 23:07:05

Local clock offset: 1.634 ms

Remote clock offset: 0.055 ms

Below is generated by plot.py at 2018-08-28 00:01:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 0.813 ms

Loss rate: 0.00%

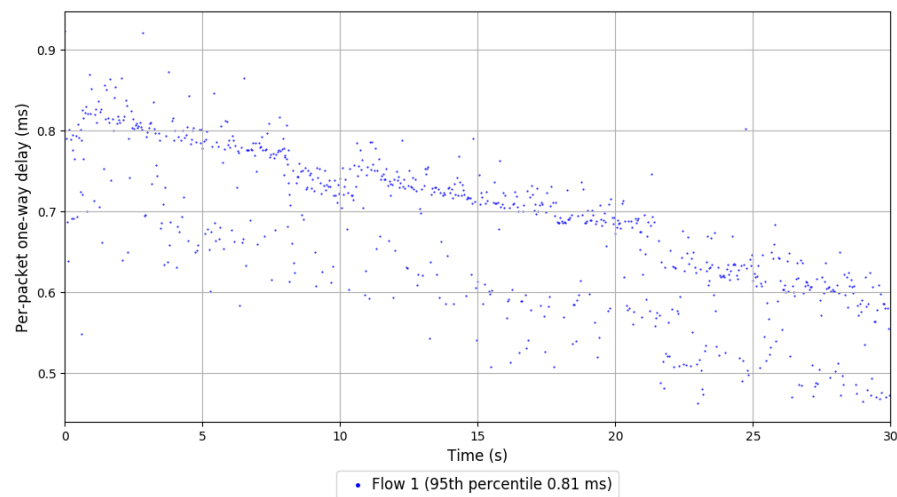
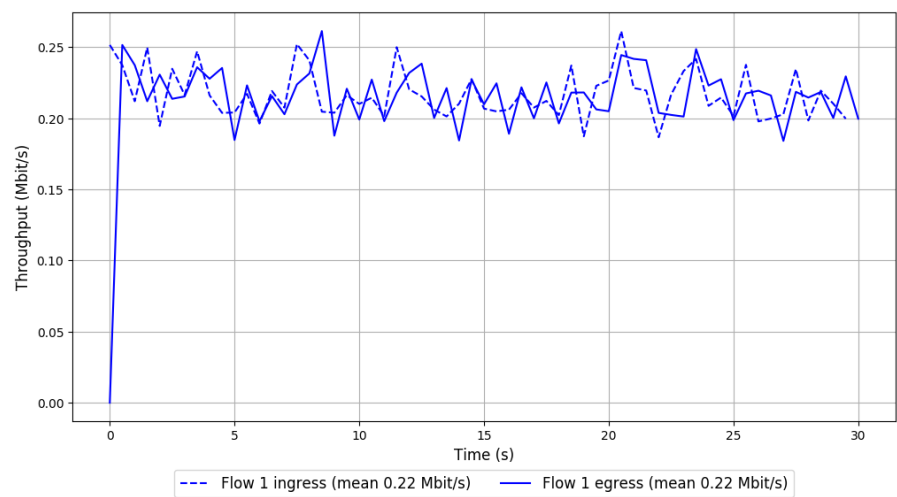
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 0.813 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-08-27 23:25:25

End at: 2018-08-27 23:25:55

Local clock offset: -1.862 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2018-08-28 00:01:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.612 ms

Loss rate: 0.00%

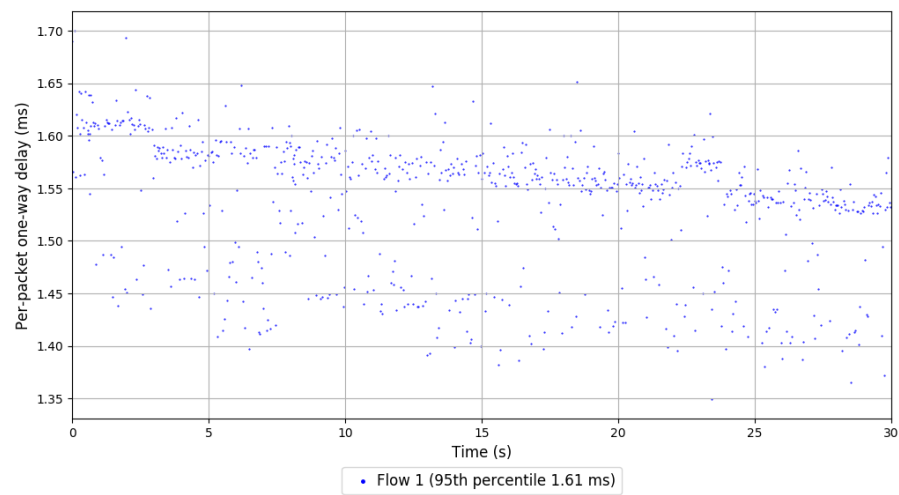
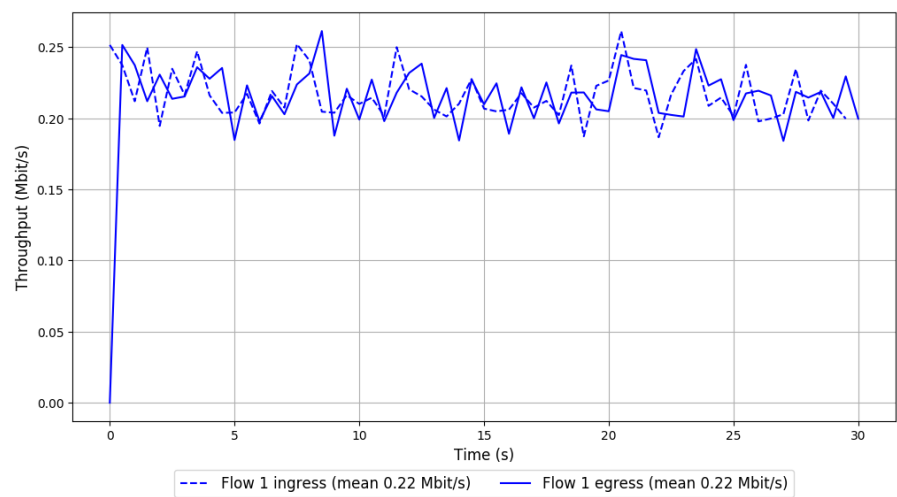
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.612 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

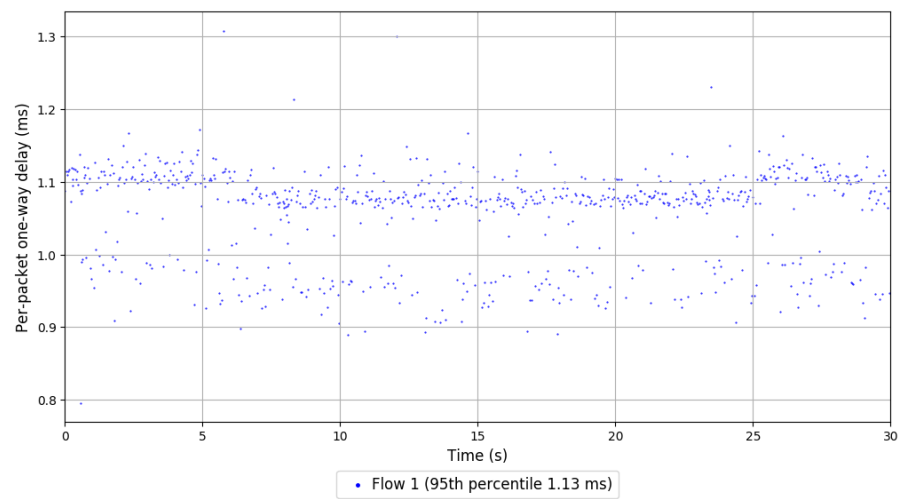
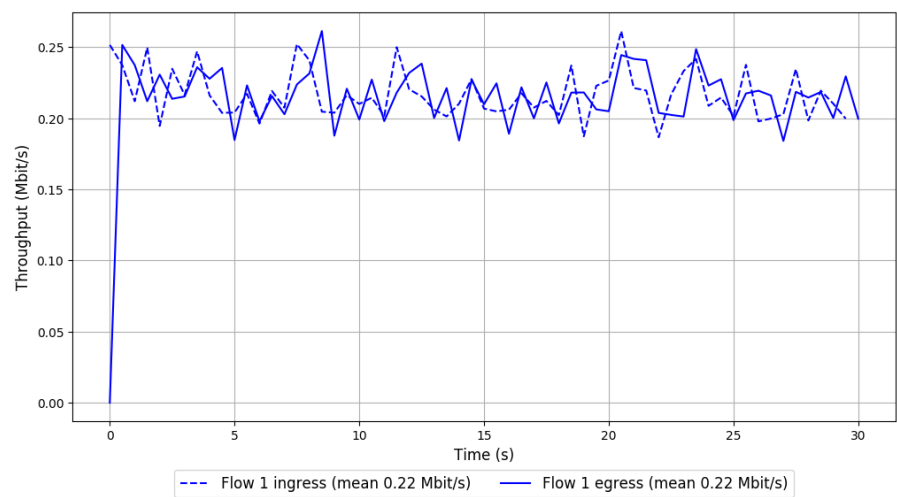


Run 10: Statistics of SReAM

Start at: 2018-08-27 23:44:09
End at: 2018-08-27 23:44:39
Local clock offset: -2.432 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-08-28 00:01:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.128 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.128 ms
Loss rate: 0.00%

Run 10: Report of SCReAM — Data Link

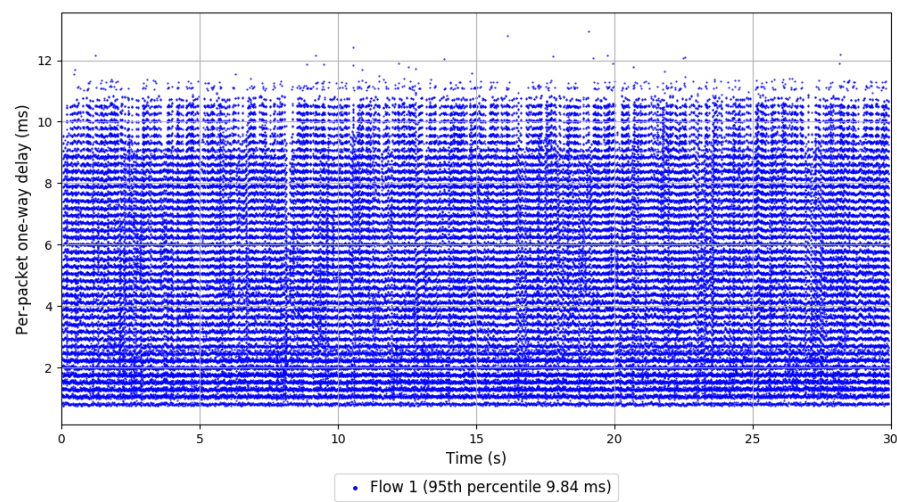
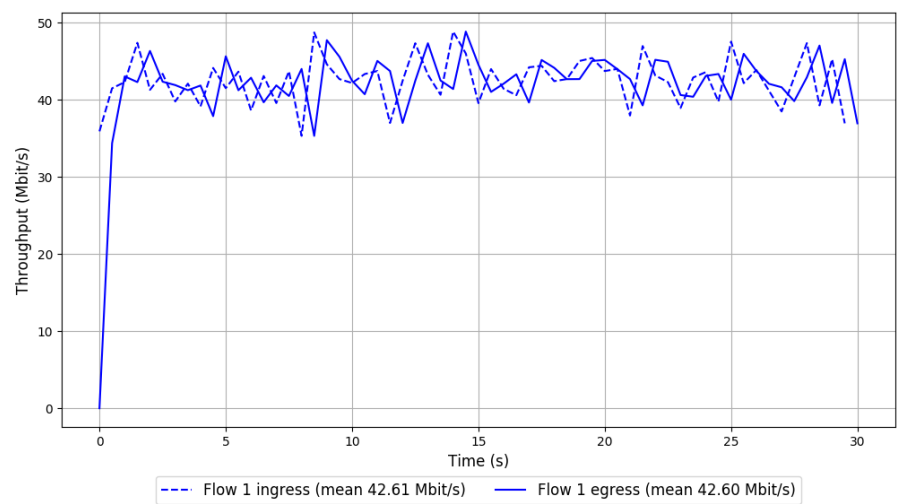


Run 1: Statistics of Sprout

Start at: 2018-08-27 20:54:09
End at: 2018-08-27 20:54:39
Local clock offset: 2.218 ms
Remote clock offset: -0.088 ms

Below is generated by plot.py at 2018-08-28 00:01:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 42.60 Mbit/s
95th percentile per-packet one-way delay: 9.836 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.60 Mbit/s
95th percentile per-packet one-way delay: 9.836 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-08-27 21:12:53

End at: 2018-08-27 21:13:23

Local clock offset: 0.95 ms

Remote clock offset: 0.113 ms

Below is generated by plot.py at 2018-08-28 00:01:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.42 Mbit/s

95th percentile per-packet one-way delay: 10.926 ms

Loss rate: 0.00%

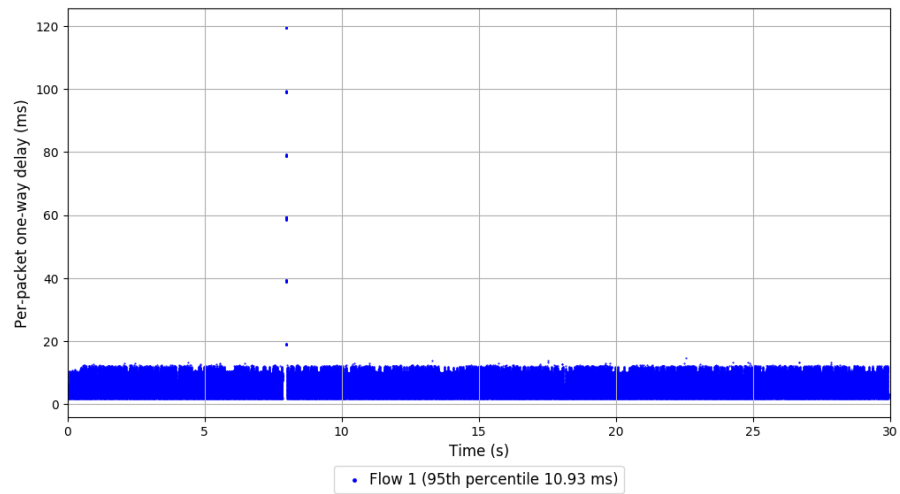
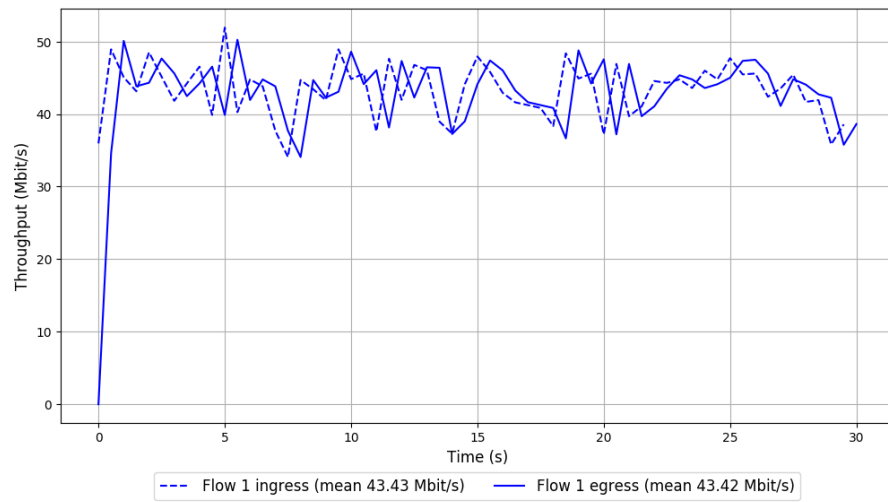
-- Flow 1:

Average throughput: 43.42 Mbit/s

95th percentile per-packet one-way delay: 10.926 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-08-27 21:31:44

End at: 2018-08-27 21:32:14

Local clock offset: 0.904 ms

Remote clock offset: 0.14 ms

Below is generated by plot.py at 2018-08-28 00:01:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.60 Mbit/s

95th percentile per-packet one-way delay: 10.880 ms

Loss rate: 0.00%

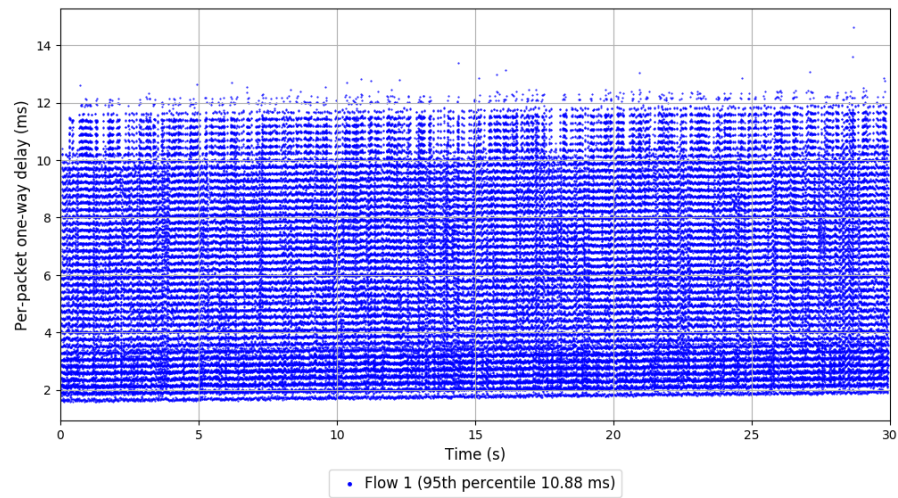
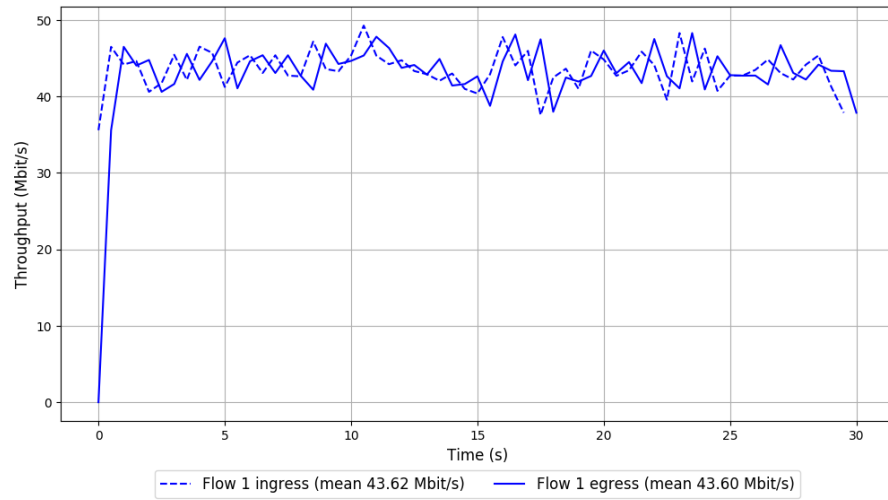
-- Flow 1:

Average throughput: 43.60 Mbit/s

95th percentile per-packet one-way delay: 10.880 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

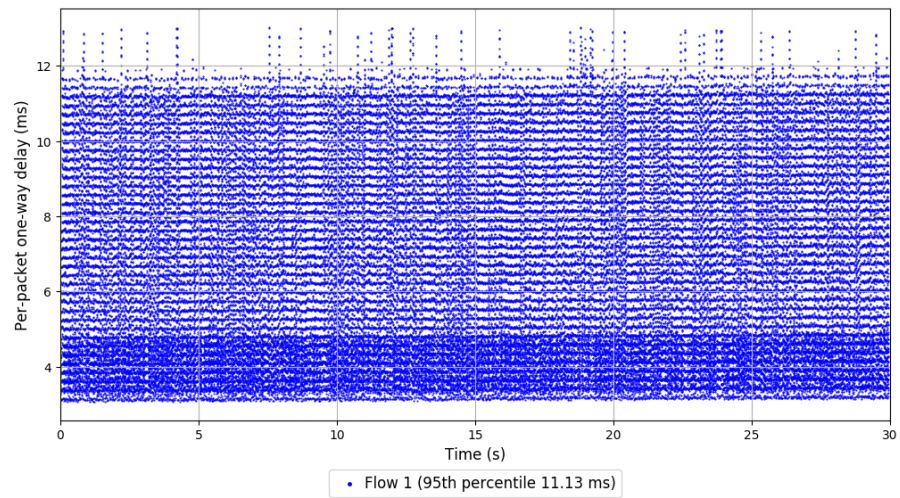
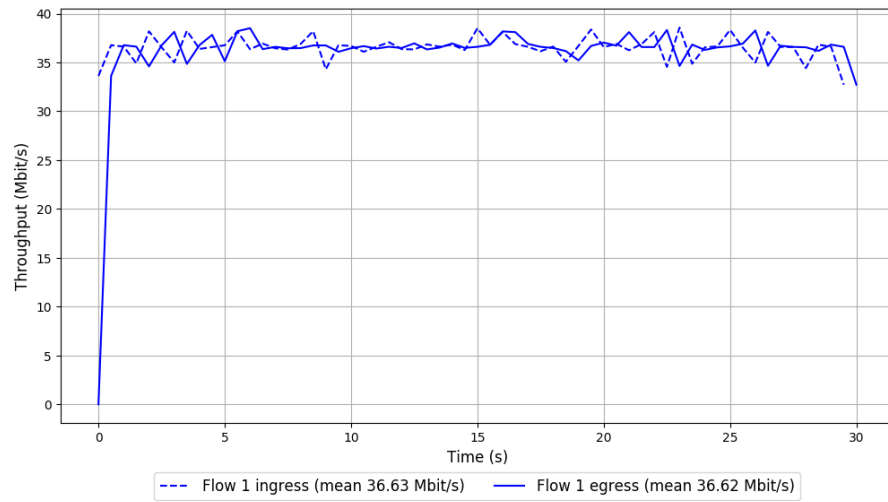


Run 4: Statistics of Sprout

Start at: 2018-08-27 21:50:28
End at: 2018-08-27 21:50:58
Local clock offset: 6.54 ms
Remote clock offset: 0.218 ms

```
# Below is generated by plot.py at 2018-08-28 00:01:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.62 Mbit/s
95th percentile per-packet one-way delay: 11.133 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 36.62 Mbit/s
95th percentile per-packet one-way delay: 11.133 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-08-27 22:09:13

End at: 2018-08-27 22:09:43

Local clock offset: 6.054 ms

Remote clock offset: 0.108 ms

Below is generated by plot.py at 2018-08-28 00:01:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.44 Mbit/s

95th percentile per-packet one-way delay: 9.555 ms

Loss rate: 0.00%

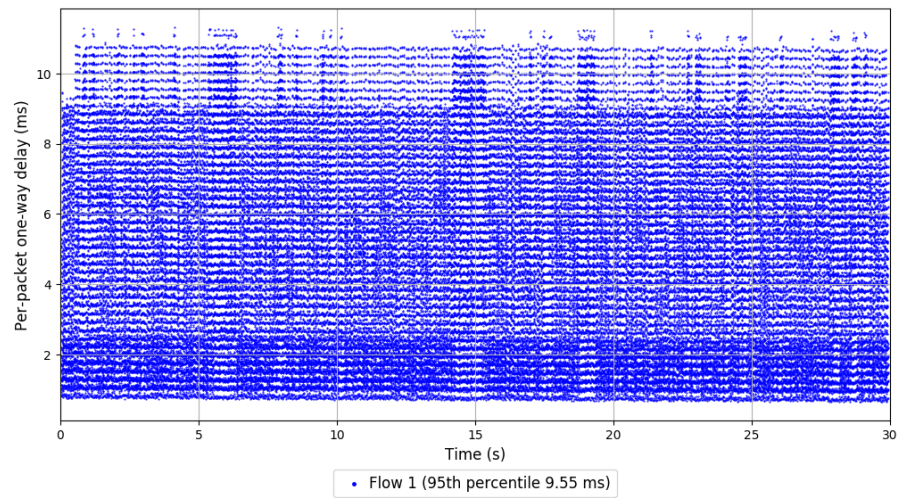
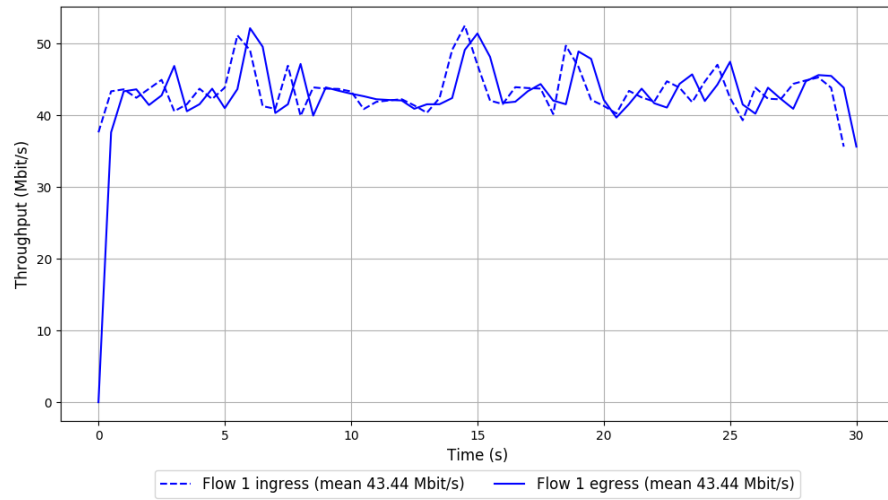
-- Flow 1:

Average throughput: 43.44 Mbit/s

95th percentile per-packet one-way delay: 9.555 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-08-27 22:27:59

End at: 2018-08-27 22:28:29

Local clock offset: 5.274 ms

Remote clock offset: 0.078 ms

Below is generated by plot.py at 2018-08-28 00:01:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.85 Mbit/s

95th percentile per-packet one-way delay: 8.870 ms

Loss rate: 0.00%

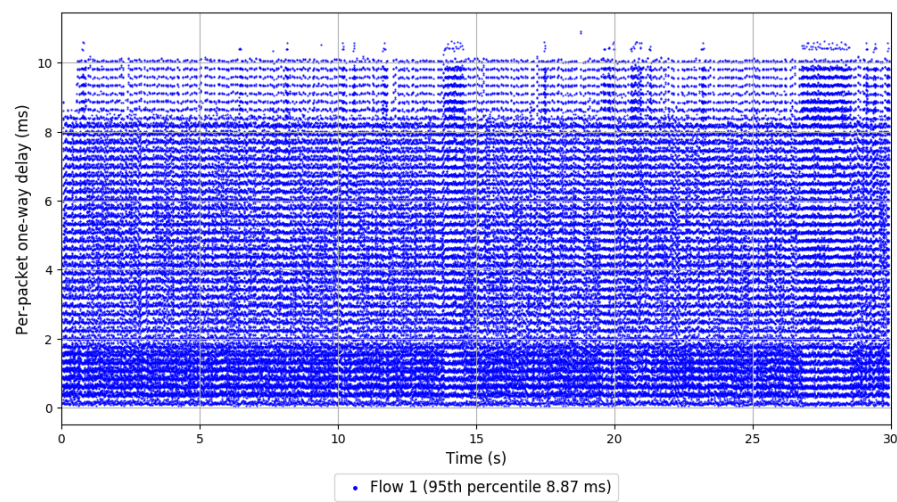
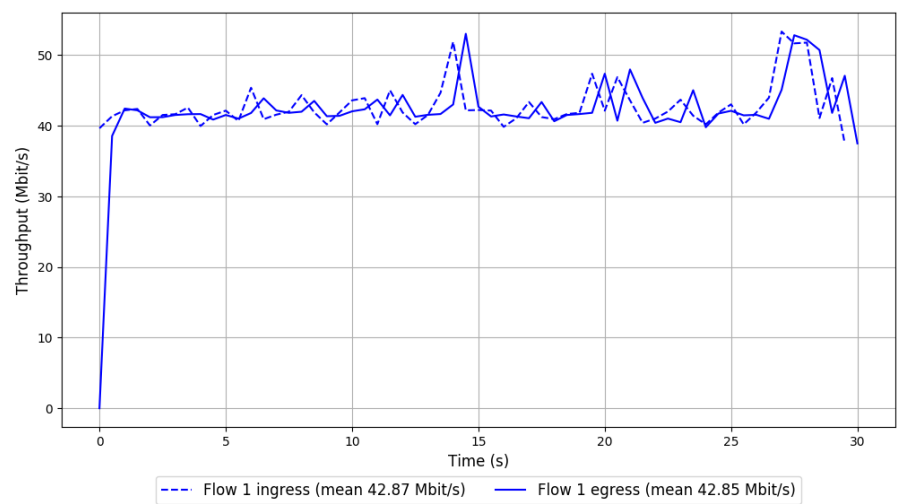
-- Flow 1:

Average throughput: 42.85 Mbit/s

95th percentile per-packet one-way delay: 8.870 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-08-27 22:46:45

End at: 2018-08-27 22:47:15

Local clock offset: 4.908 ms

Remote clock offset: 0.062 ms

Below is generated by plot.py at 2018-08-28 00:01:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.53 Mbit/s

95th percentile per-packet one-way delay: 9.489 ms

Loss rate: 0.00%

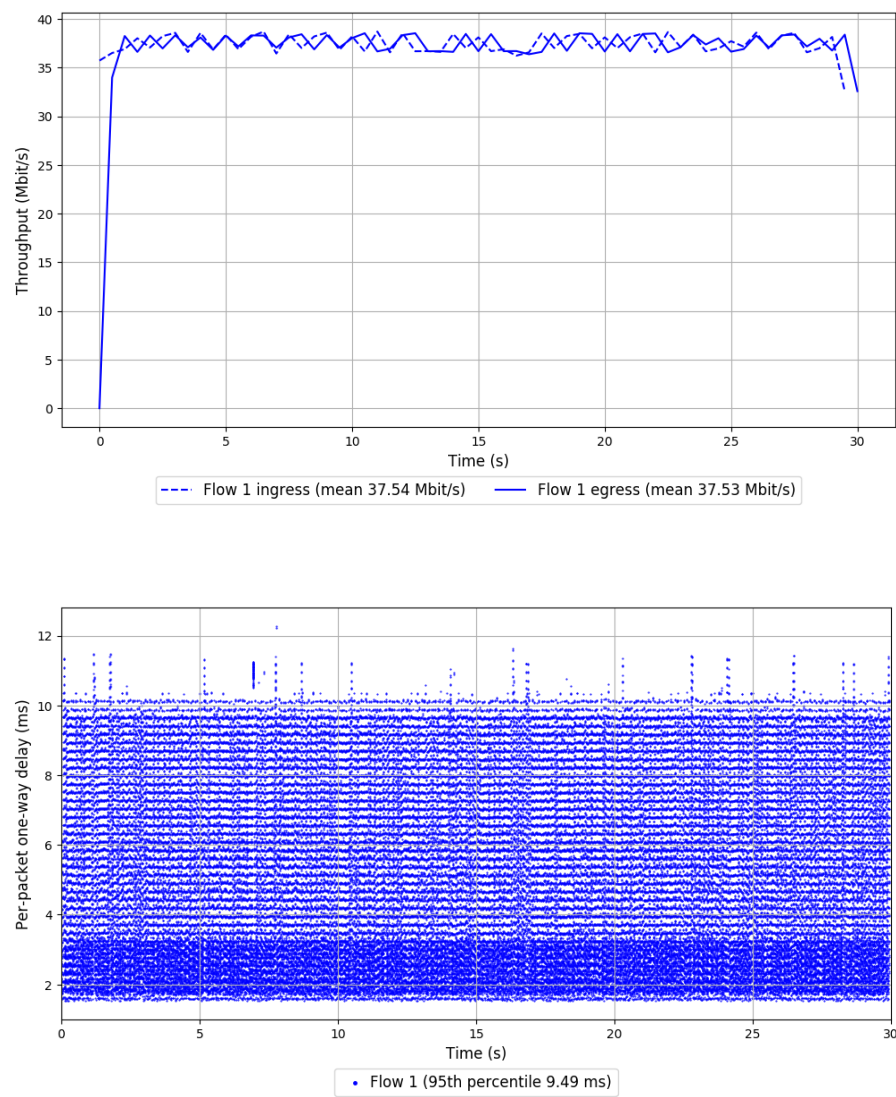
-- Flow 1:

Average throughput: 37.53 Mbit/s

95th percentile per-packet one-way delay: 9.489 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-08-27 23:05:29

End at: 2018-08-27 23:05:59

Local clock offset: 2.032 ms

Remote clock offset: 0.037 ms

Below is generated by plot.py at 2018-08-28 00:01:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.27 Mbit/s

95th percentile per-packet one-way delay: 9.325 ms

Loss rate: 0.00%

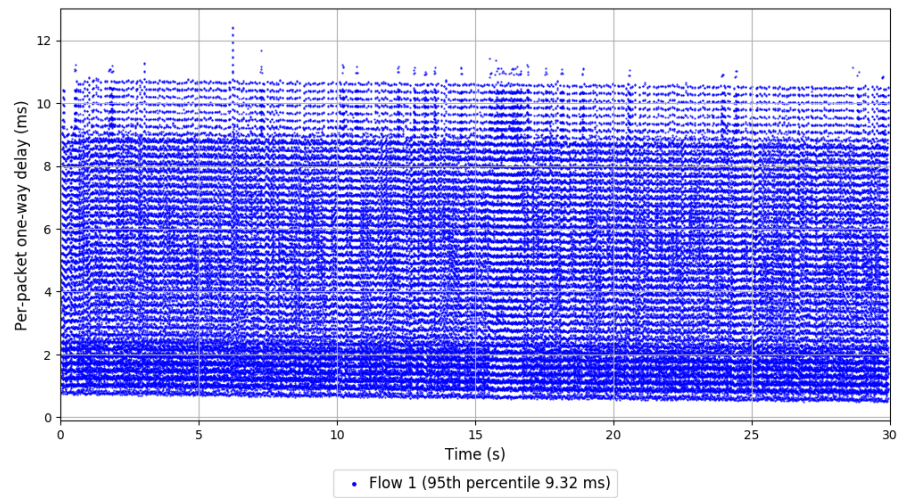
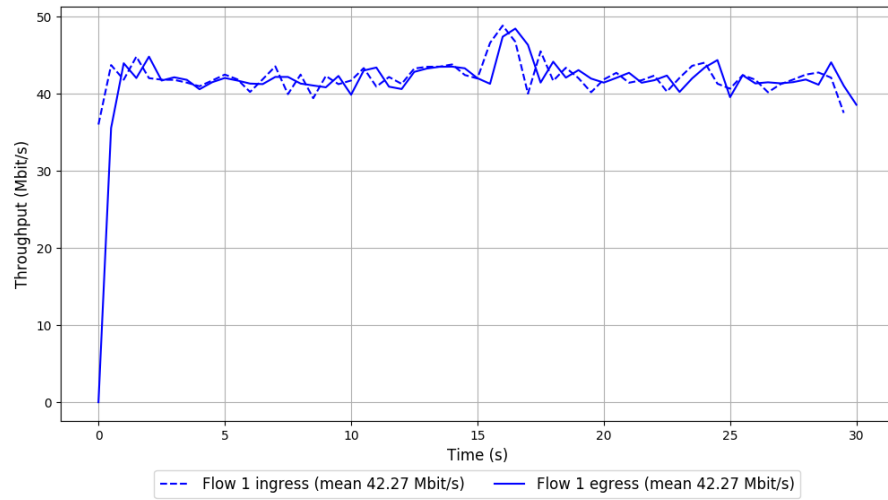
-- Flow 1:

Average throughput: 42.27 Mbit/s

95th percentile per-packet one-way delay: 9.325 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

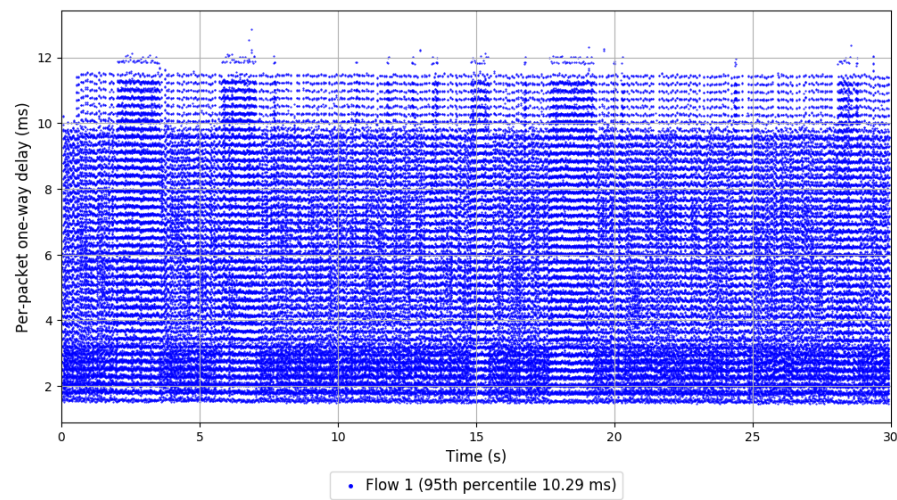
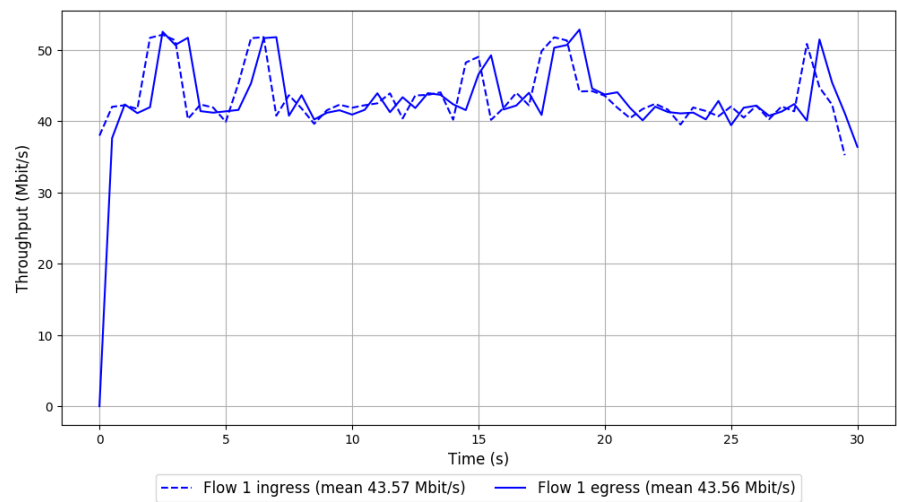


Run 9: Statistics of Sprout

Start at: 2018-08-27 23:24:19
End at: 2018-08-27 23:24:49
Local clock offset: -3.232 ms
Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-08-28 00:01:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 43.56 Mbit/s
95th percentile per-packet one-way delay: 10.291 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 43.56 Mbit/s
95th percentile per-packet one-way delay: 10.291 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-08-27 23:43:04

End at: 2018-08-27 23:43:34

Local clock offset: -2.45 ms

Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-08-28 00:01:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.43 Mbit/s

95th percentile per-packet one-way delay: 10.290 ms

Loss rate: 0.01%

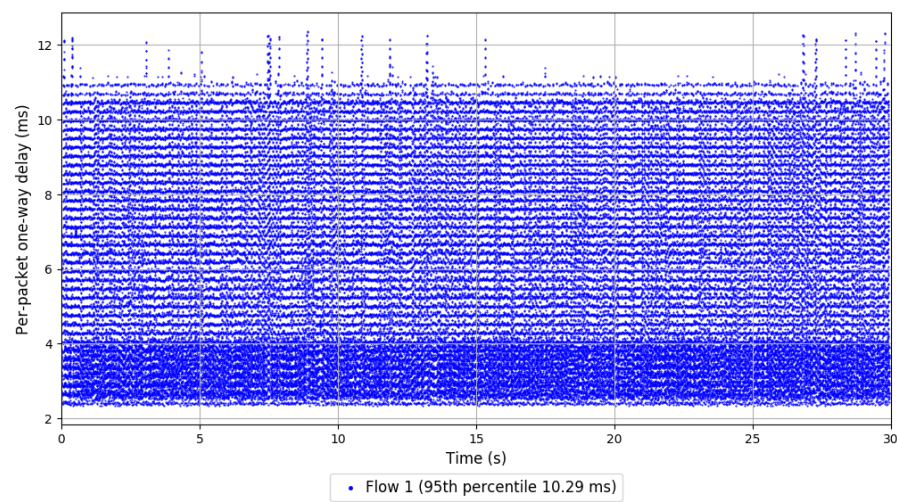
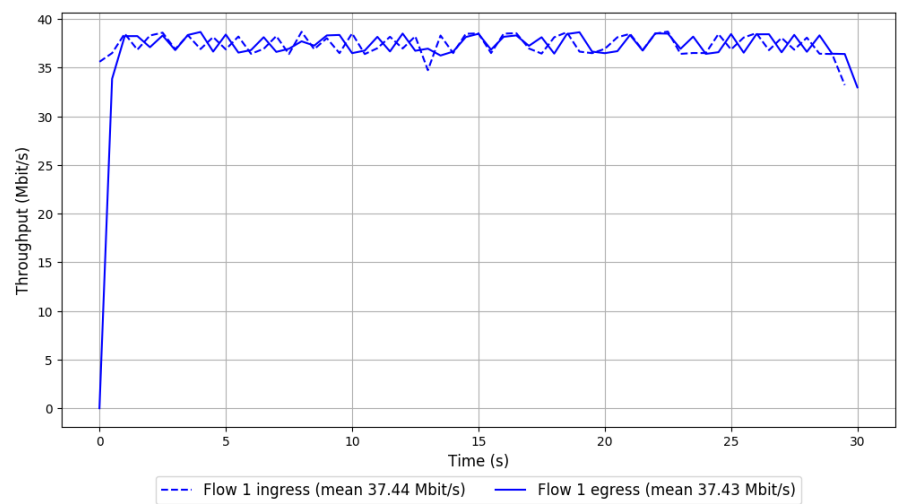
-- Flow 1:

Average throughput: 37.43 Mbit/s

95th percentile per-packet one-way delay: 10.290 ms

Loss rate: 0.01%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

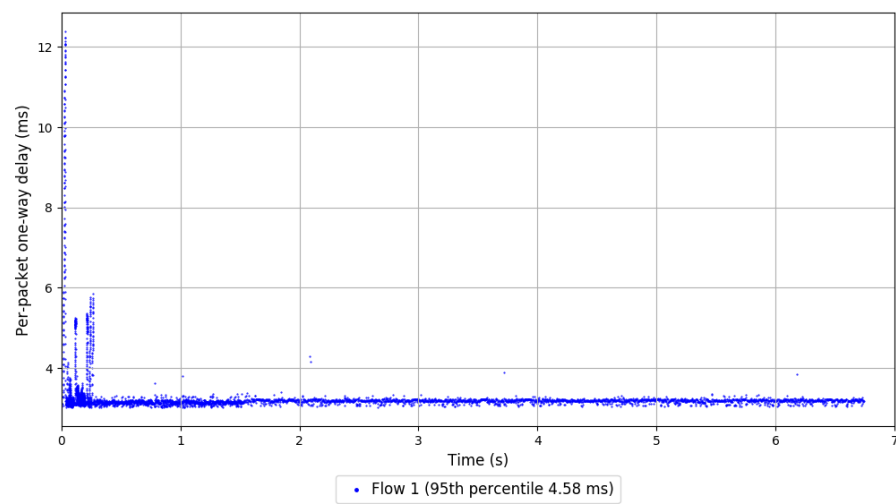
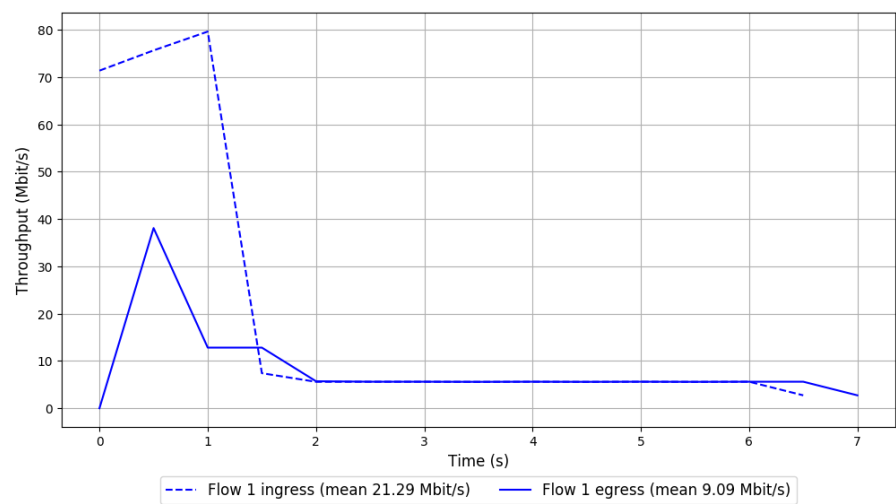
Start at: 2018-08-27 20:51:58

End at: 2018-08-27 20:52:28

Local clock offset: 1.33 ms

Remote clock offset: -0.156 ms

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



Run 2: Statistics of TaoVA-100x

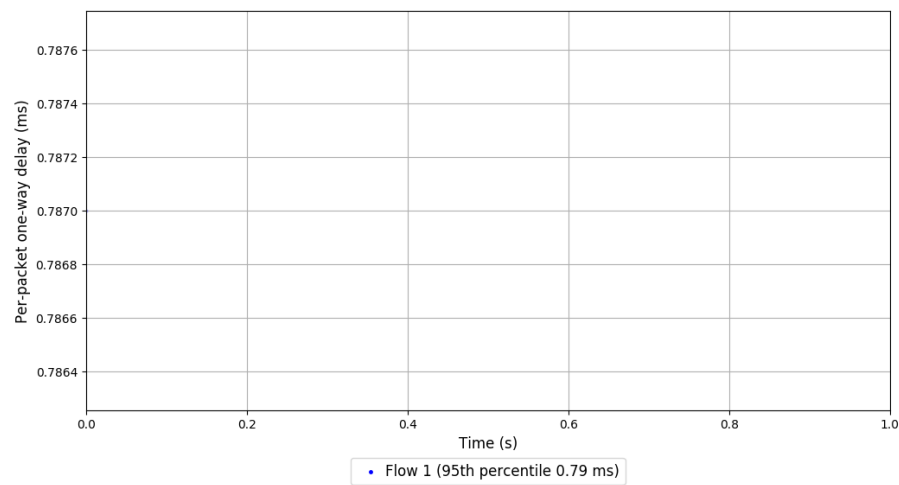
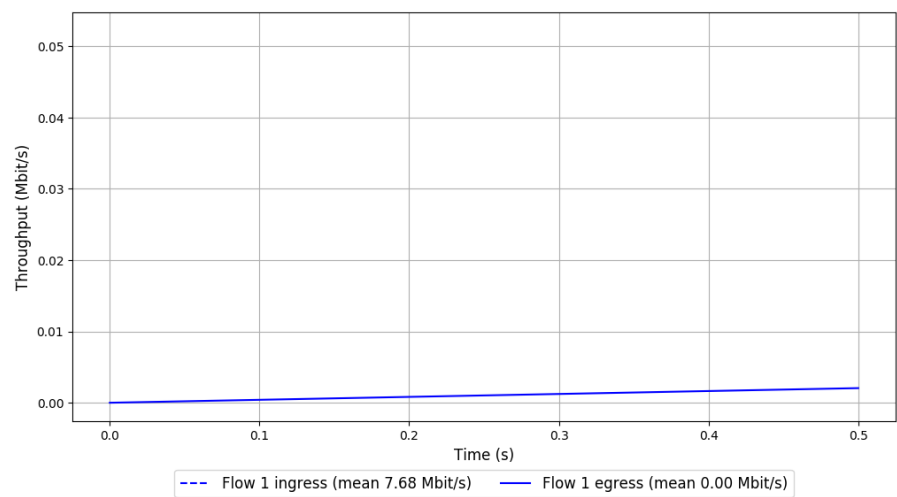
Start at: 2018-08-27 21:10:42

End at: 2018-08-27 21:11:12

Local clock offset: 1.857 ms

Remote clock offset: 0.03 ms

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



Run 3: Statistics of TaoVA-100x

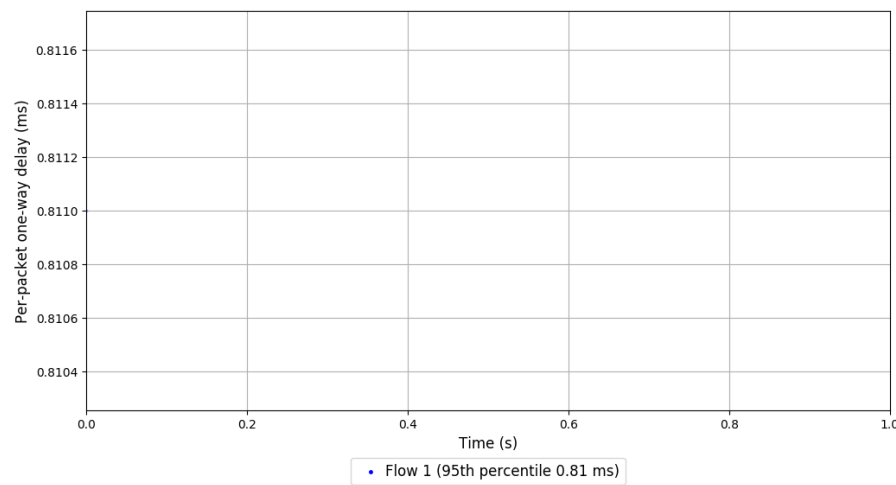
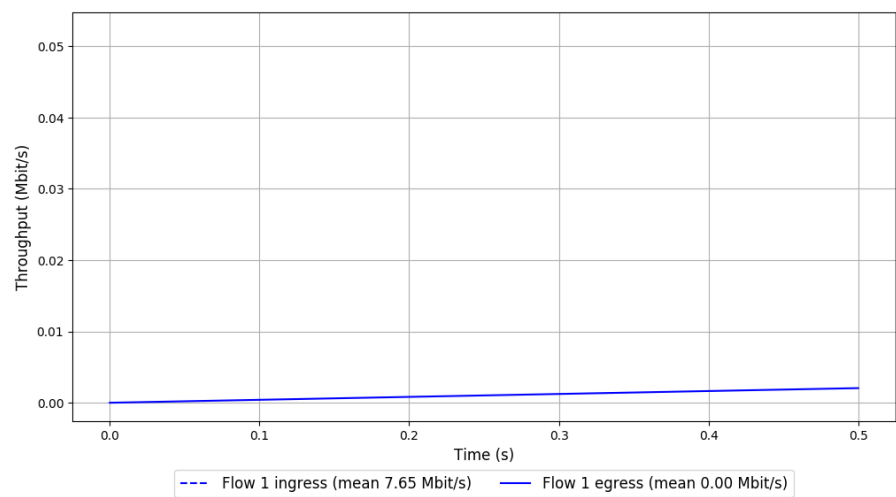
Start at: 2018-08-27 21:29:33

End at: 2018-08-27 21:30:03

Local clock offset: 1.663 ms

Remote clock offset: 0.13 ms

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



Run 4: Statistics of TaoVA-100x

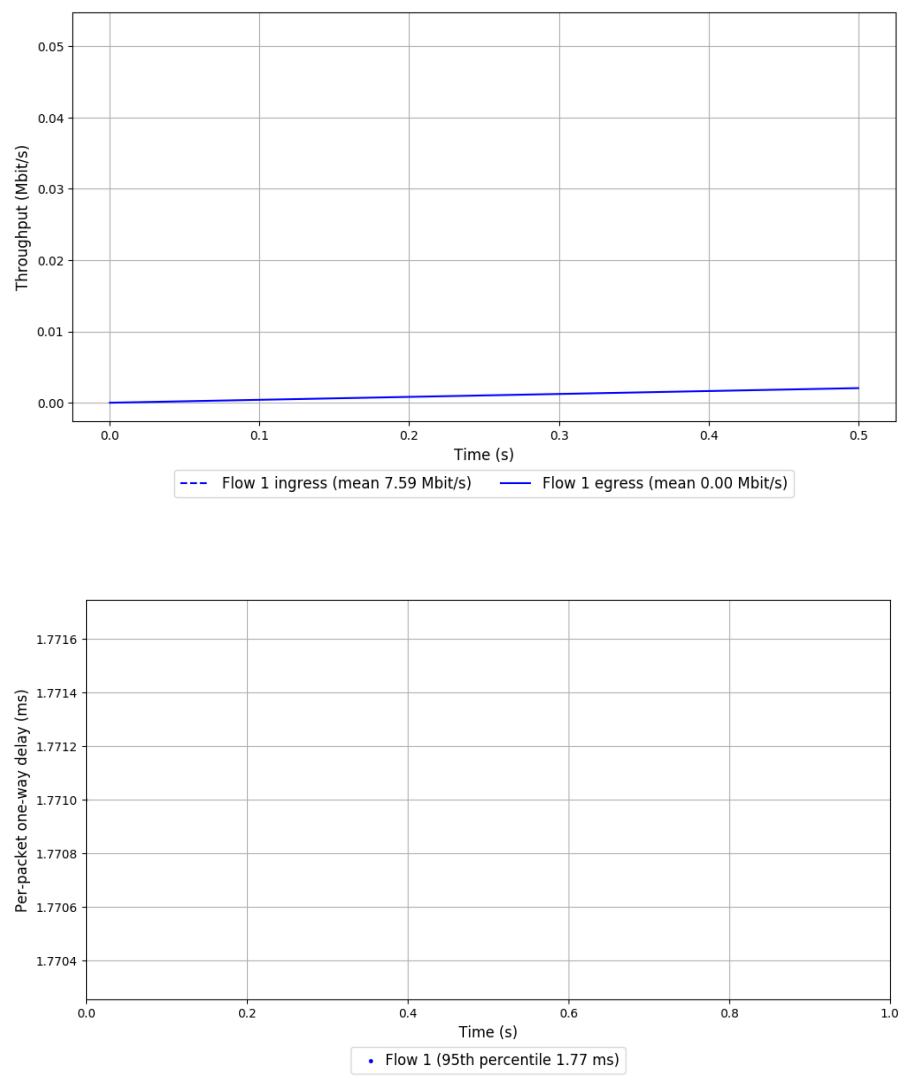
Start at: 2018-08-27 21:48:18

End at: 2018-08-27 21:48:48

Local clock offset: 6.156 ms

Remote clock offset: 0.265 ms

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



Run 5: Statistics of TaoVA-100x

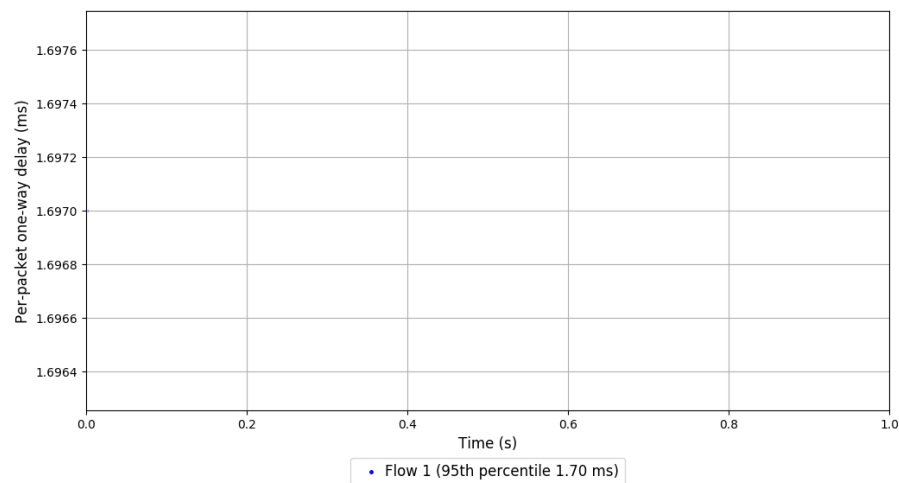
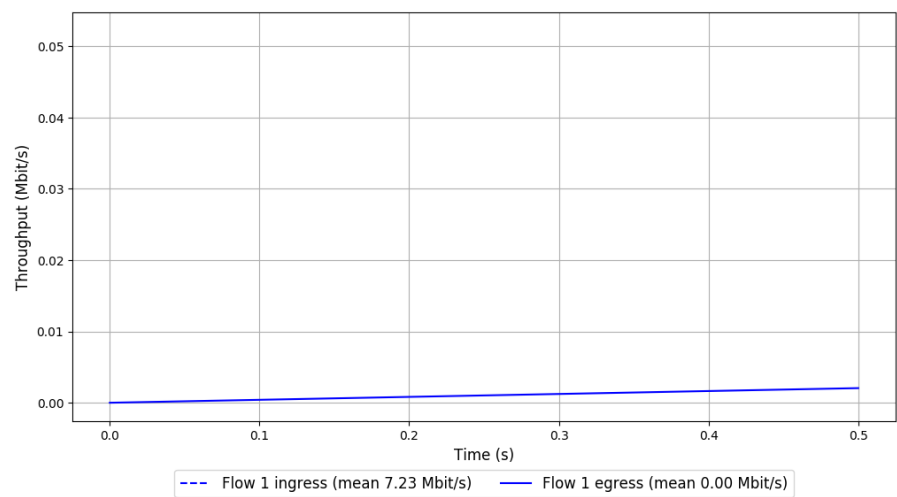
Start at: 2018-08-27 22:07:03

End at: 2018-08-27 22:07:33

Local clock offset: 5.887 ms

Remote clock offset: 0.128 ms

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



Run 6: Statistics of TaoVA-100x

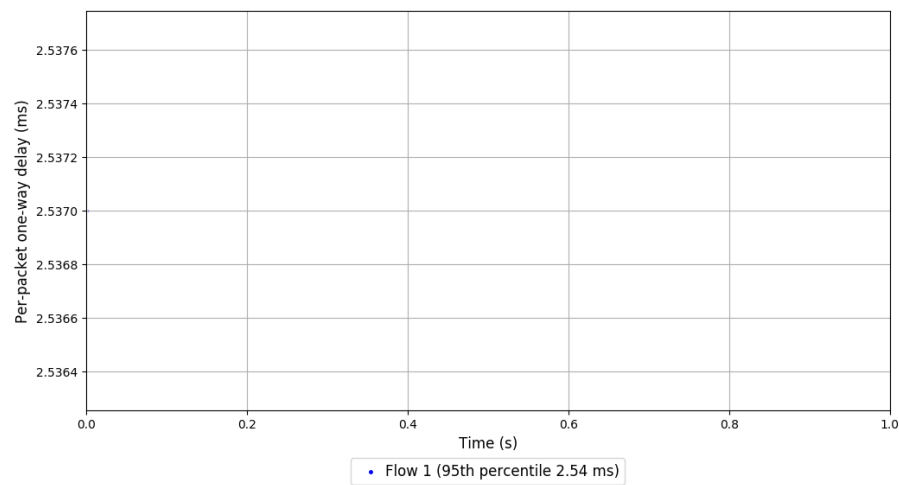
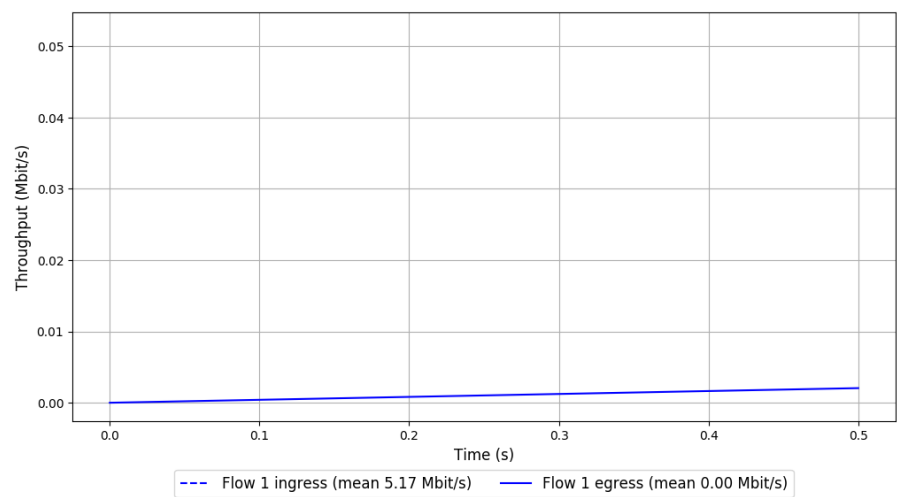
Start at: 2018-08-27 22:25:49

End at: 2018-08-27 22:26:19

Local clock offset: 4.485 ms

Remote clock offset: 0.075 ms

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



Run 7: Statistics of TaoVA-100x

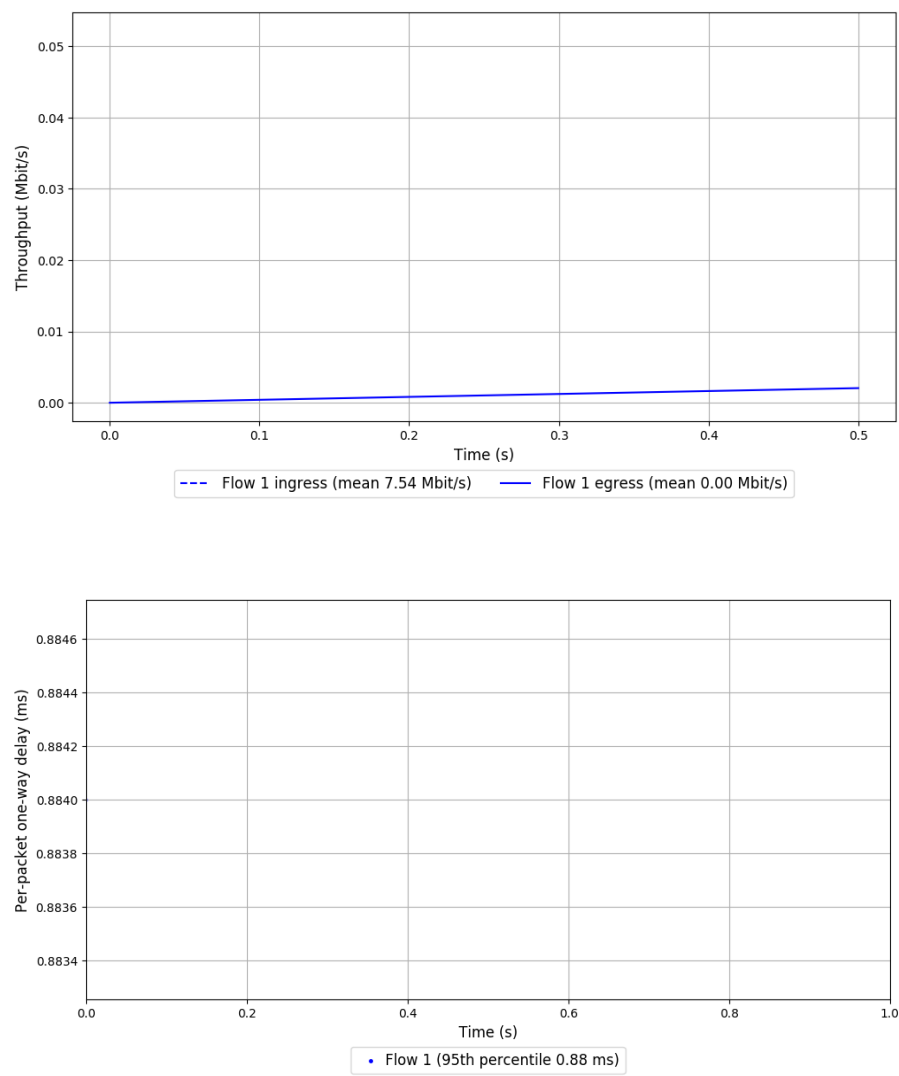
Start at: 2018-08-27 22:44:35

End at: 2018-08-27 22:45:05

Local clock offset: 4.162 ms

Remote clock offset: 0.05 ms

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



Run 8: Statistics of TaoVA-100x

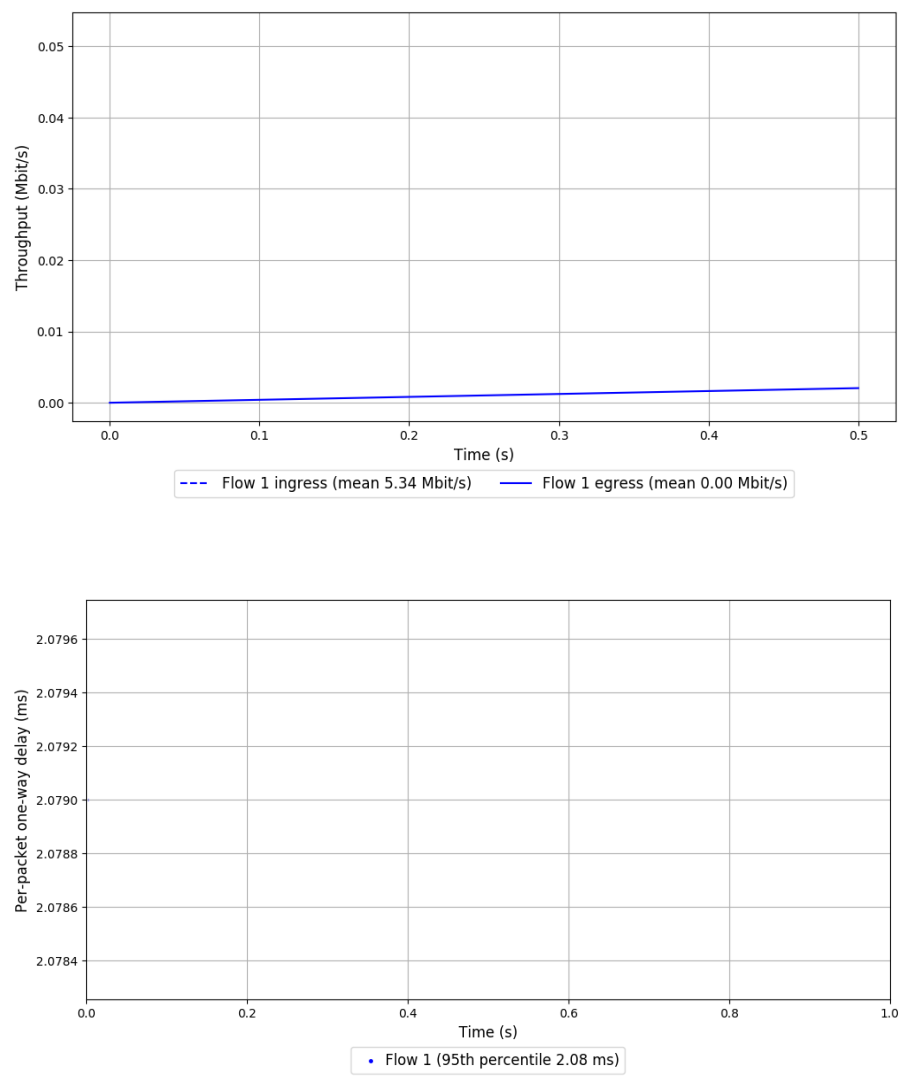
Start at: 2018-08-27 23:03:18

End at: 2018-08-27 23:03:48

Local clock offset: 3.333 ms

Remote clock offset: 0.051 ms

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



Run 9: Statistics of TaoVA-100x

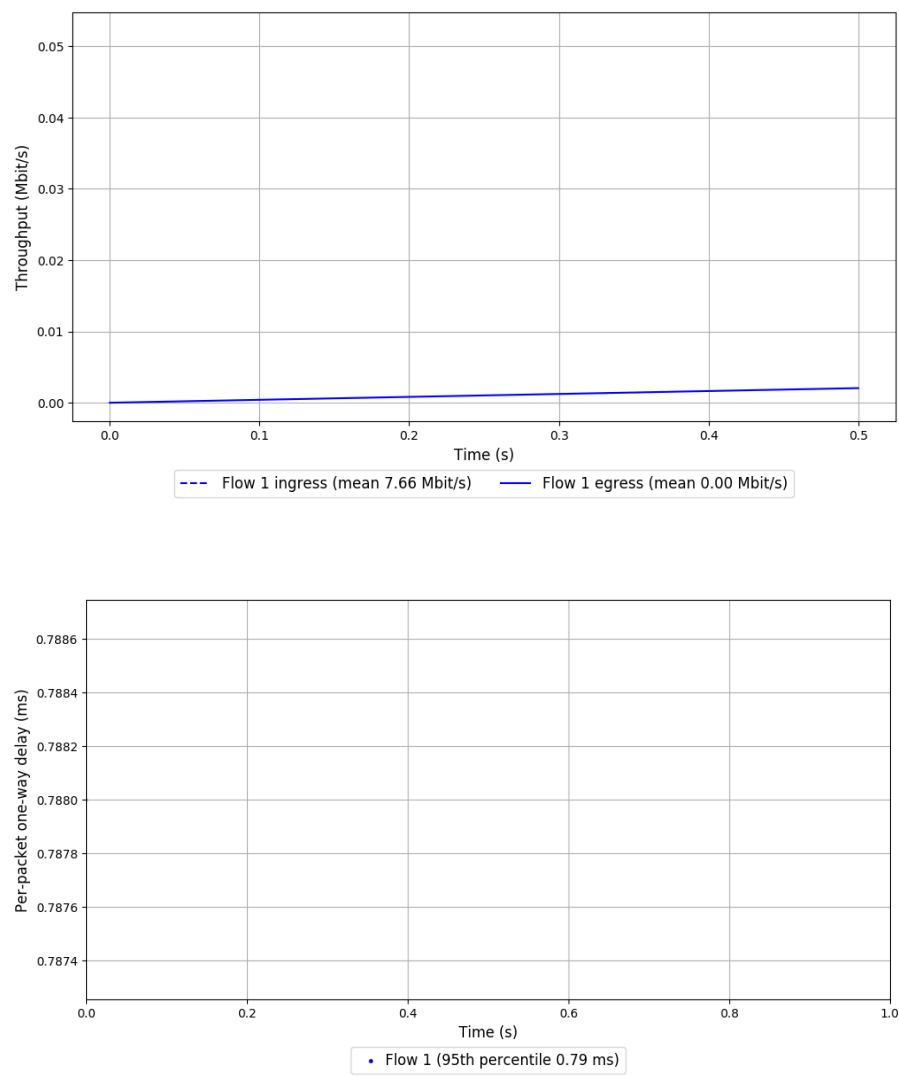
Start at: 2018-08-27 23:22:09

End at: 2018-08-27 23:22:39

Local clock offset: -2.192 ms

Remote clock offset: 0.048 ms

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



Run 10: Statistics of TaoVA-100x

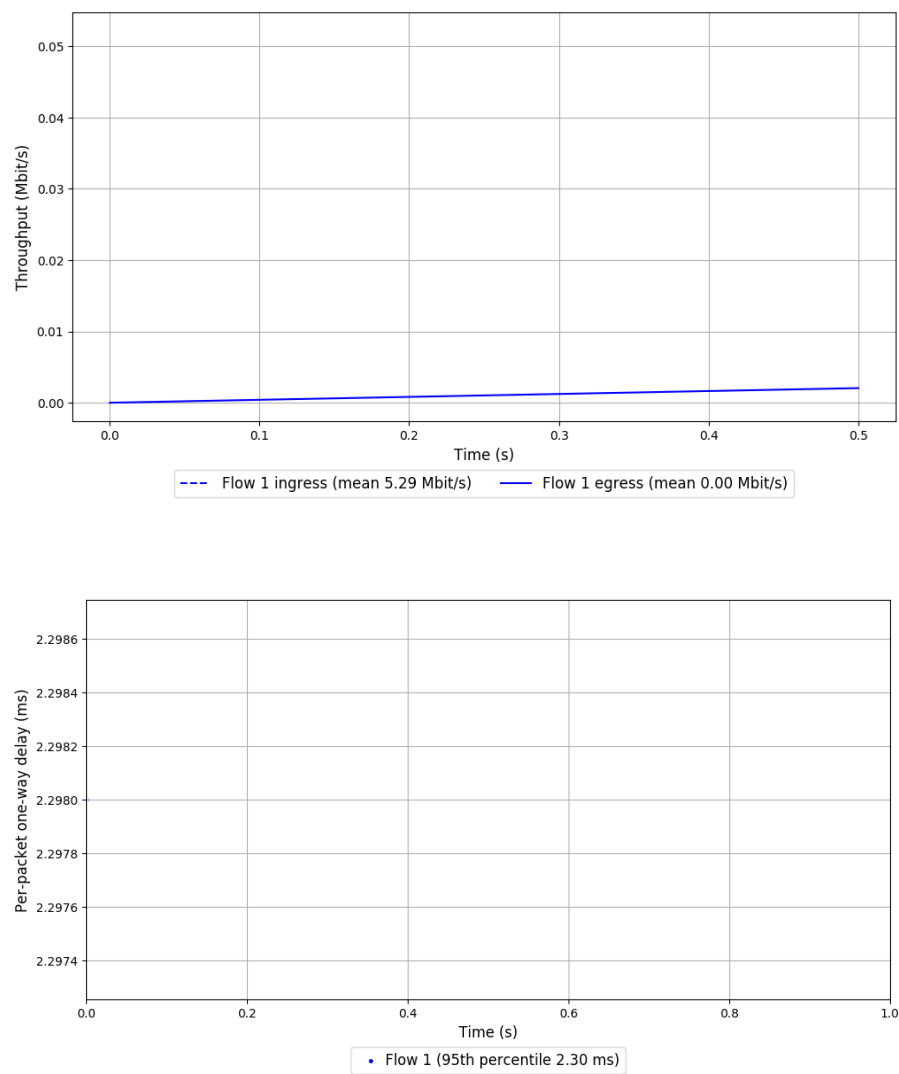
Start at: 2018-08-27 23:40:53

End at: 2018-08-27 23:41:23

Local clock offset: -2.442 ms

Remote clock offset: -0.085 ms

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



Run 1: Statistics of TCP Vegas

Start at: 2018-08-27 20:49:47

End at: 2018-08-27 20:50:17

Local clock offset: 2.059 ms

Remote clock offset: -0.053 ms

Below is generated by plot.py at 2018-08-28 00:01:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.89 Mbit/s

95th percentile per-packet one-way delay: 2.143 ms

Loss rate: 0.00%

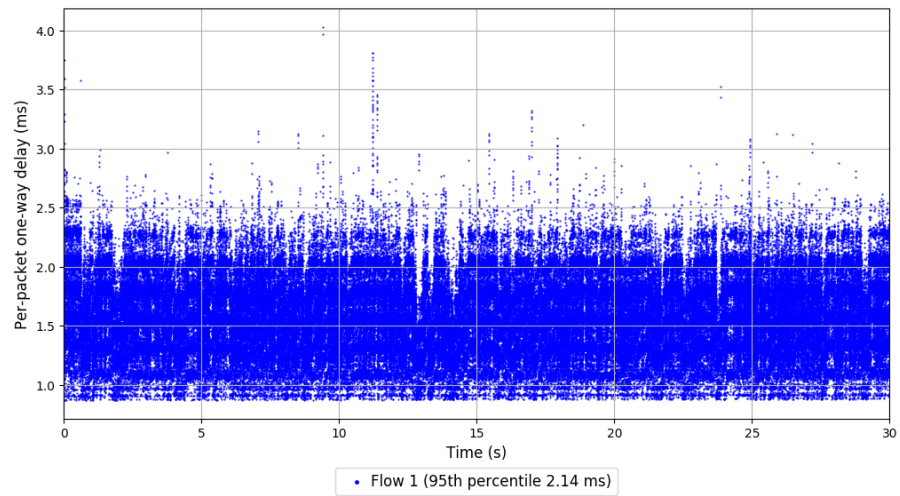
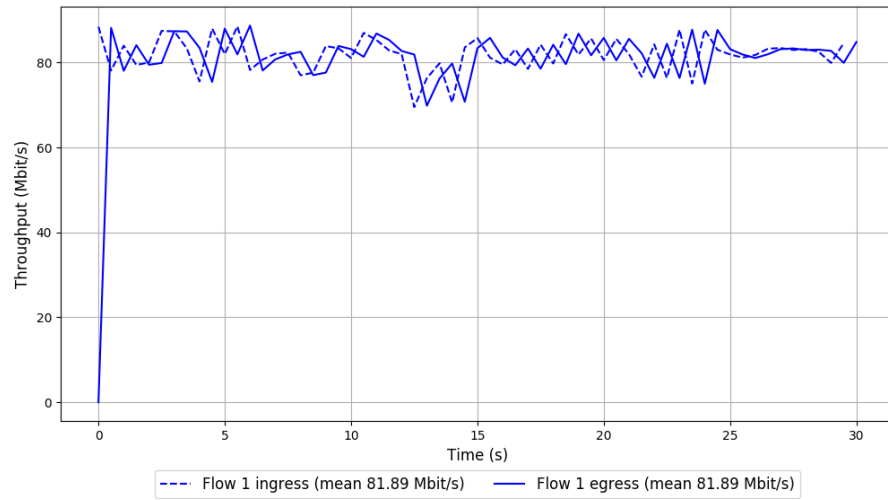
-- Flow 1:

Average throughput: 81.89 Mbit/s

95th percentile per-packet one-way delay: 2.143 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-08-27 21:08:28

End at: 2018-08-27 21:08:58

Local clock offset: 2.713 ms

Remote clock offset: 0.02 ms

Below is generated by plot.py at 2018-08-28 00:02:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.67 Mbit/s

95th percentile per-packet one-way delay: 1.388 ms

Loss rate: 0.00%

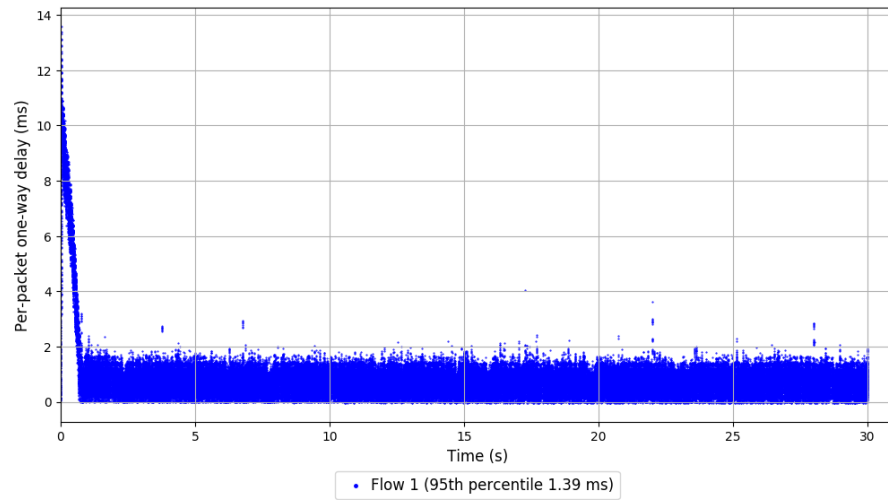
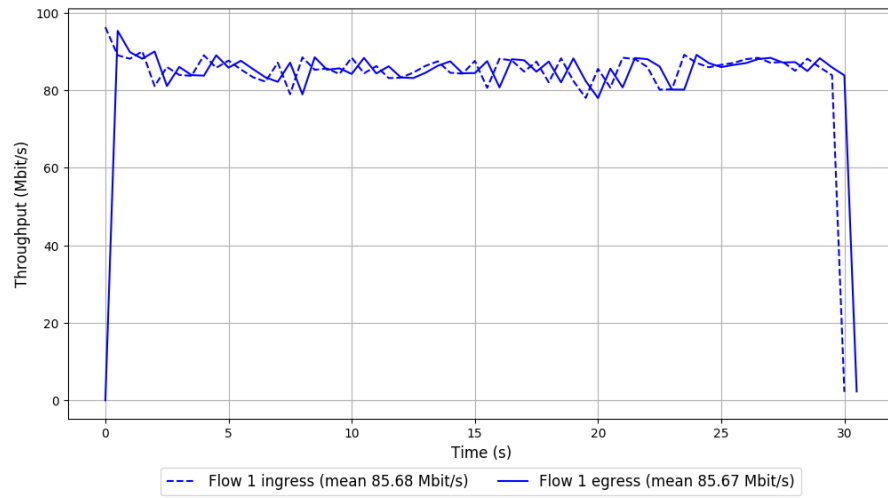
-- Flow 1:

Average throughput: 85.67 Mbit/s

95th percentile per-packet one-way delay: 1.388 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-08-27 21:27:19

End at: 2018-08-27 21:27:49

Local clock offset: 1.607 ms

Remote clock offset: 0.107 ms

Below is generated by plot.py at 2018-08-28 00:02:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.18 Mbit/s

95th percentile per-packet one-way delay: 2.196 ms

Loss rate: 0.00%

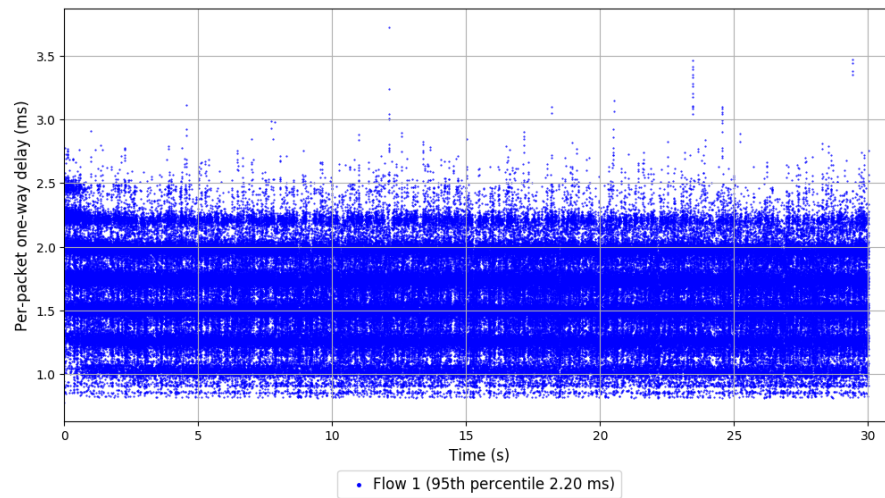
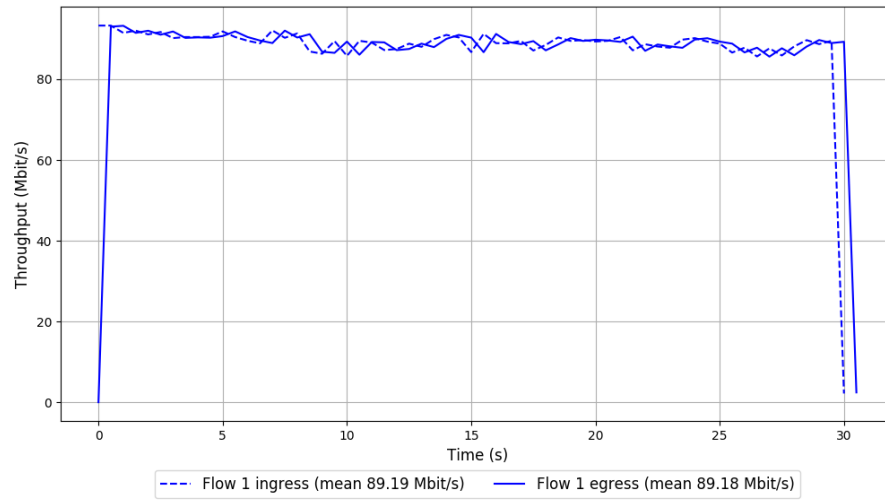
-- Flow 1:

Average throughput: 89.18 Mbit/s

95th percentile per-packet one-way delay: 2.196 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-08-27 21:46:04

End at: 2018-08-27 21:46:34

Local clock offset: 5.729 ms

Remote clock offset: 0.172 ms

Below is generated by plot.py at 2018-08-28 00:02:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.83 Mbit/s

95th percentile per-packet one-way delay: 4.634 ms

Loss rate: 0.00%

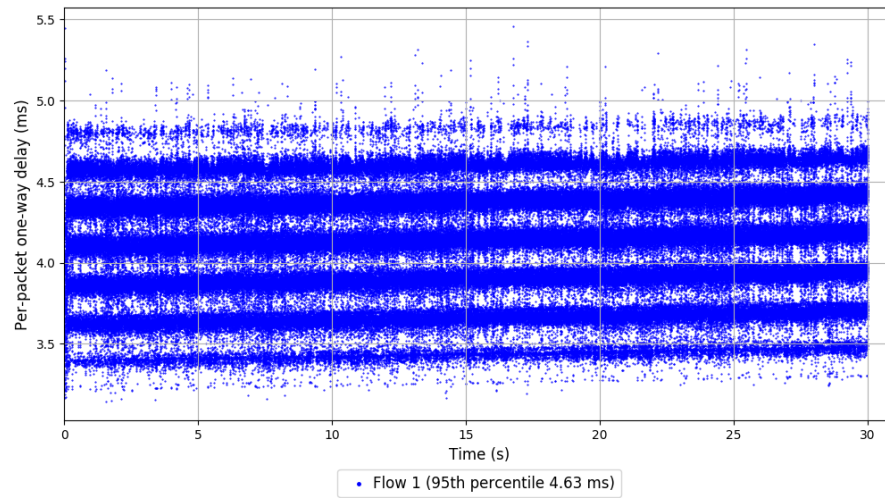
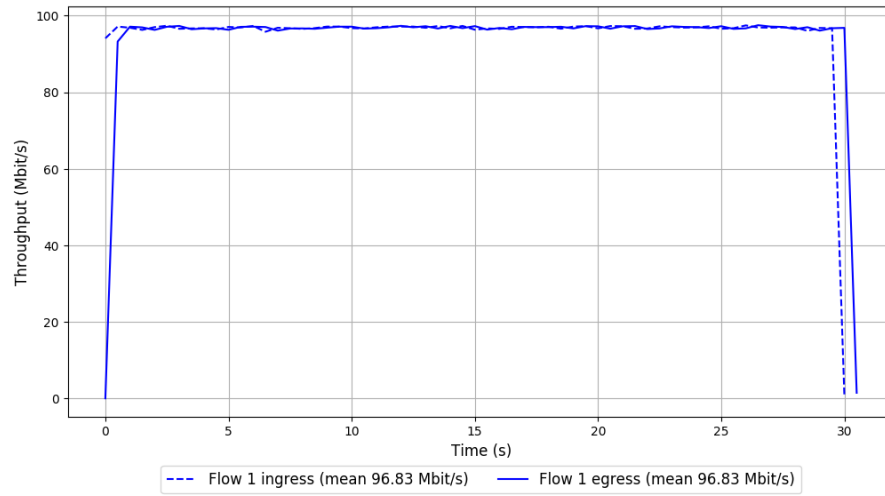
-- Flow 1:

Average throughput: 96.83 Mbit/s

95th percentile per-packet one-way delay: 4.634 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-08-27 22:04:49

End at: 2018-08-27 22:05:19

Local clock offset: 7.344 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-08-28 00:02:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.82 Mbit/s

95th percentile per-packet one-way delay: 3.541 ms

Loss rate: 0.00%

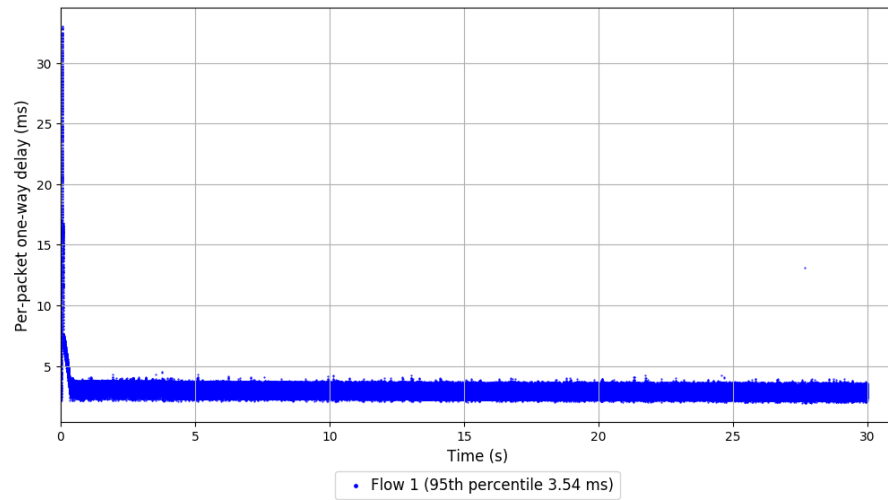
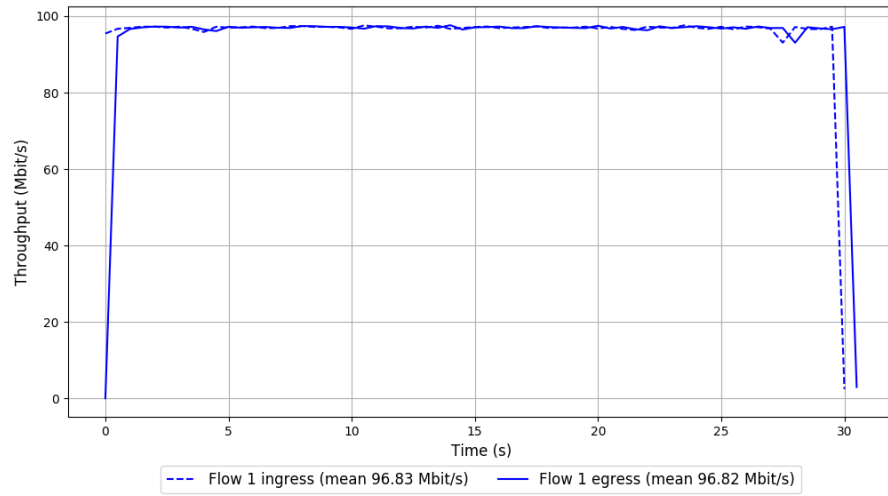
-- Flow 1:

Average throughput: 96.82 Mbit/s

95th percentile per-packet one-way delay: 3.541 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-08-27 22:23:35

End at: 2018-08-27 22:24:05

Local clock offset: 4.593 ms

Remote clock offset: 0.059 ms

Below is generated by plot.py at 2018-08-28 00:02:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.56 Mbit/s

95th percentile per-packet one-way delay: 3.956 ms

Loss rate: 0.00%

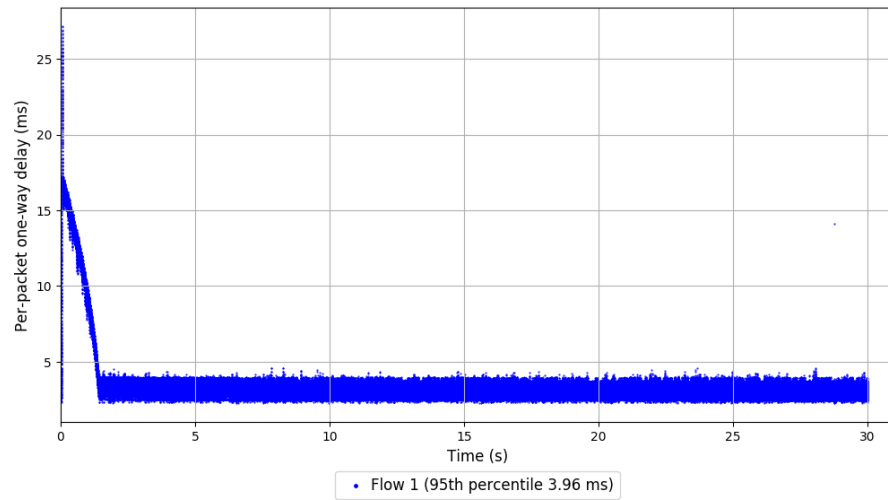
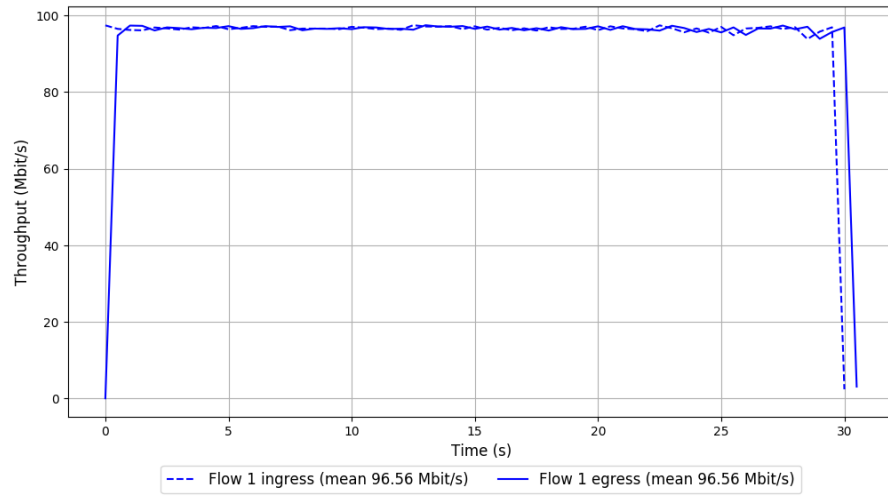
-- Flow 1:

Average throughput: 96.56 Mbit/s

95th percentile per-packet one-way delay: 3.956 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link

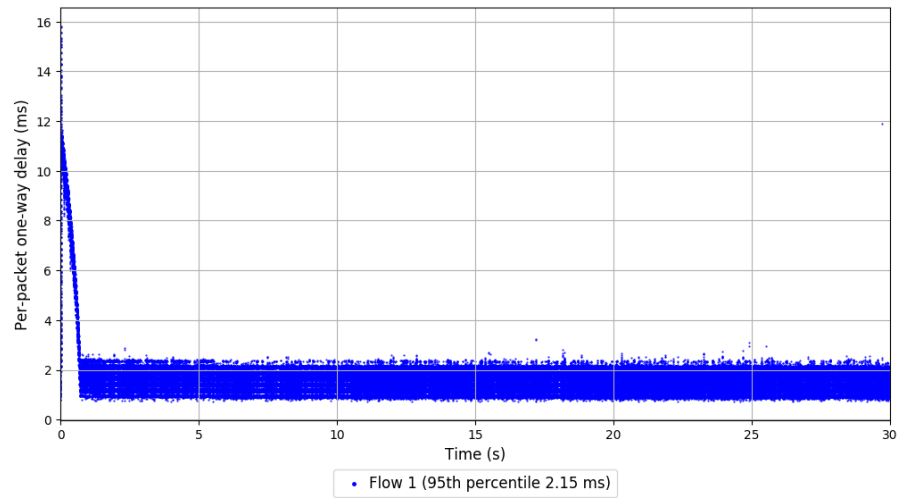
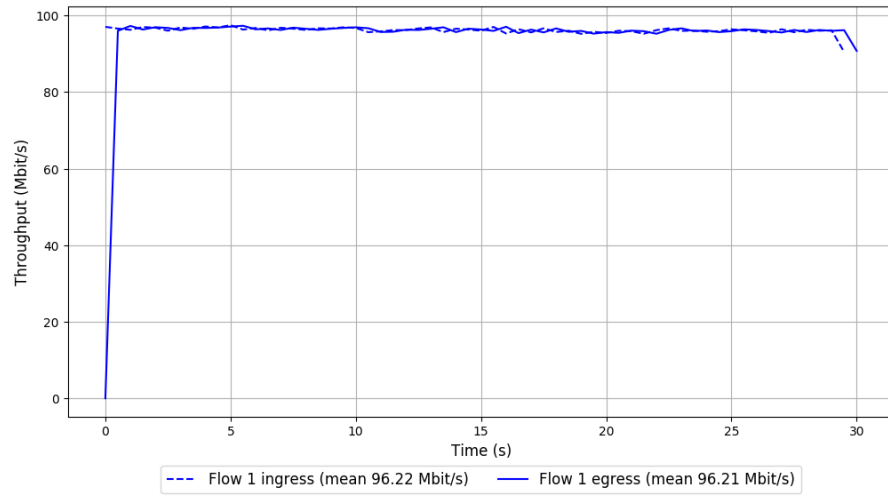


Run 7: Statistics of TCP Vegas

Start at: 2018-08-27 22:42:21
End at: 2018-08-27 22:42:51
Local clock offset: 4.176 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2018-08-28 00:02:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.21 Mbit/s
95th percentile per-packet one-way delay: 2.145 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.21 Mbit/s
95th percentile per-packet one-way delay: 2.145 ms
Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-08-27 23:01:05

End at: 2018-08-27 23:01:35

Local clock offset: 4.893 ms

Remote clock offset: 0.067 ms

Below is generated by plot.py at 2018-08-28 00:02:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.48 Mbit/s

95th percentile per-packet one-way delay: 3.040 ms

Loss rate: 0.00%

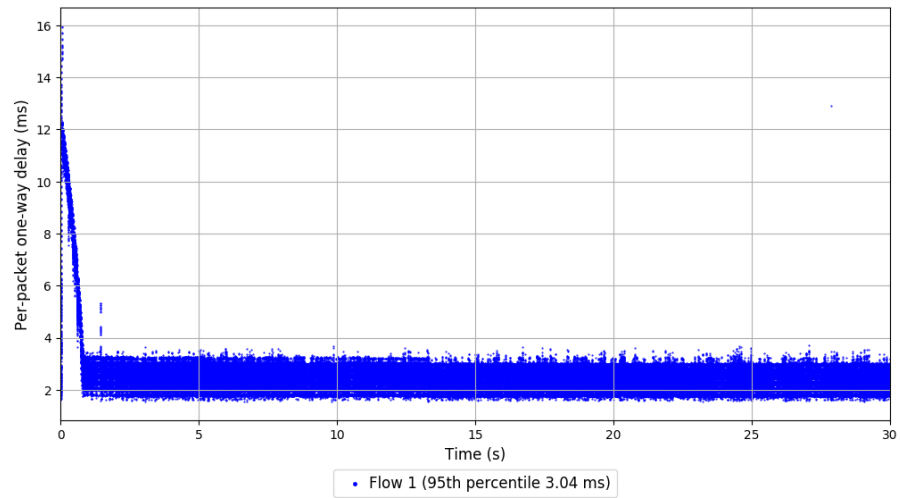
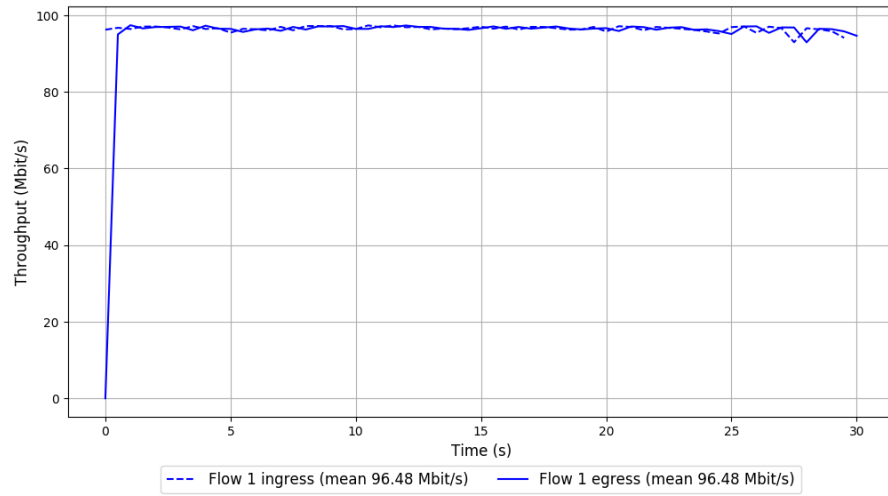
-- Flow 1:

Average throughput: 96.48 Mbit/s

95th percentile per-packet one-way delay: 3.040 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-08-27 23:19:55

End at: 2018-08-27 23:20:25

Local clock offset: -1.897 ms

Remote clock offset: 0.039 ms

Below is generated by plot.py at 2018-08-28 00:03:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.86 Mbit/s

95th percentile per-packet one-way delay: 3.889 ms

Loss rate: 0.00%

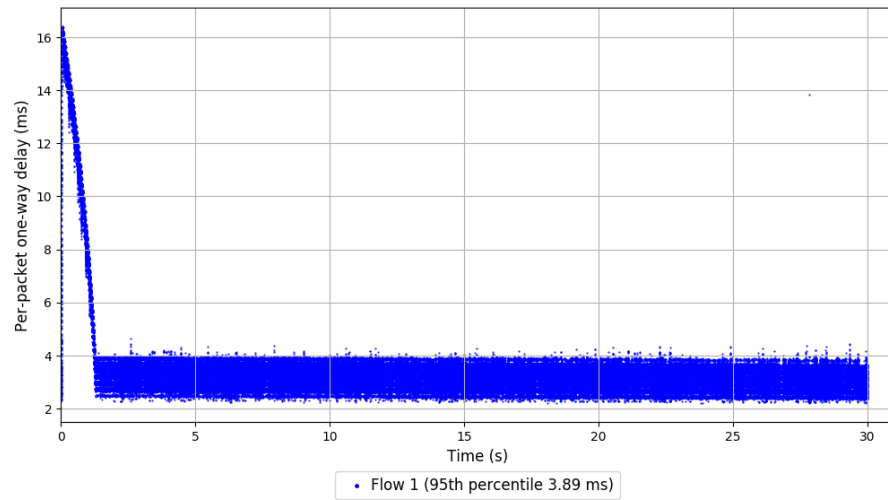
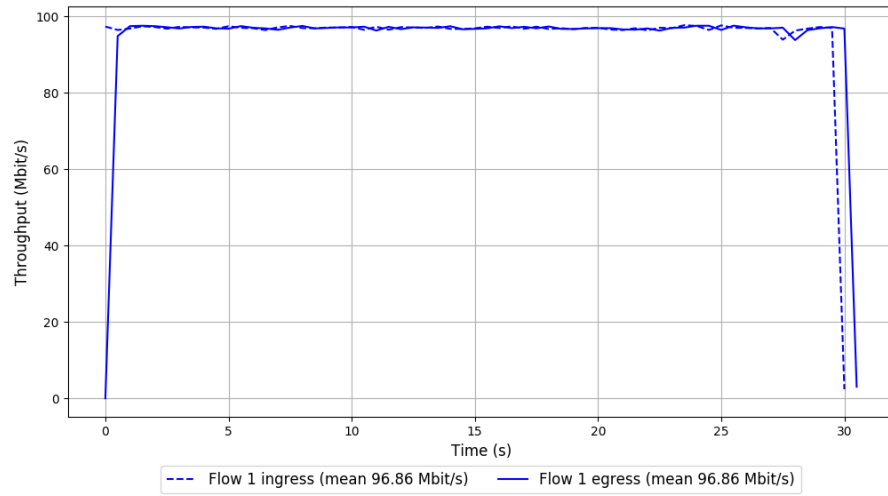
-- Flow 1:

Average throughput: 96.86 Mbit/s

95th percentile per-packet one-way delay: 3.889 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-08-27 23:38:39

End at: 2018-08-27 23:39:09

Local clock offset: -2.544 ms

Remote clock offset: -0.0 ms

Below is generated by plot.py at 2018-08-28 00:03:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.46 Mbit/s

95th percentile per-packet one-way delay: 4.009 ms

Loss rate: 0.00%

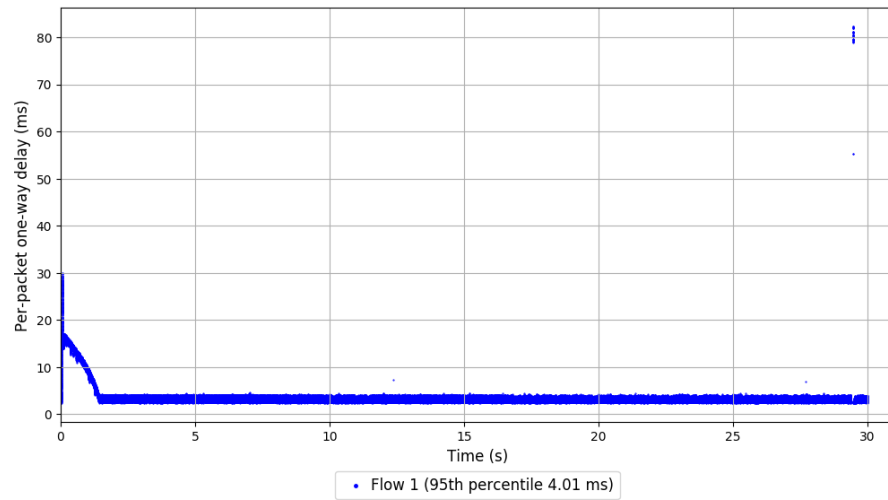
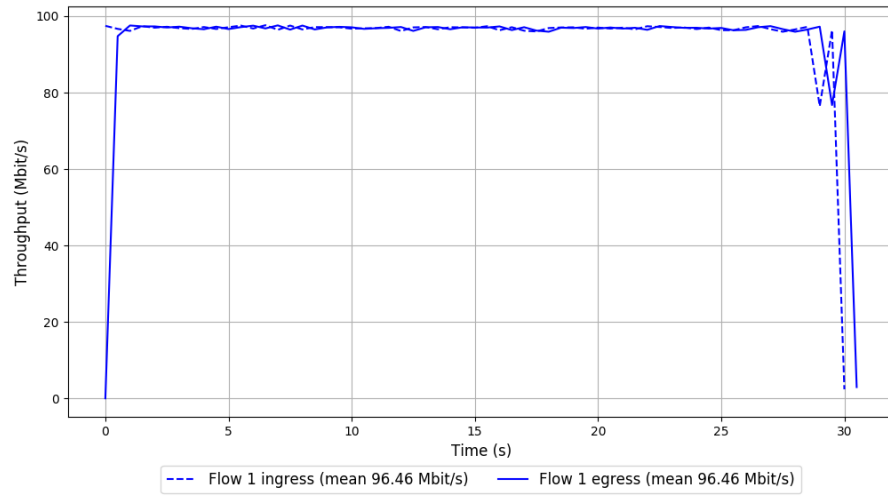
-- Flow 1:

Average throughput: 96.46 Mbit/s

95th percentile per-packet one-way delay: 4.009 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

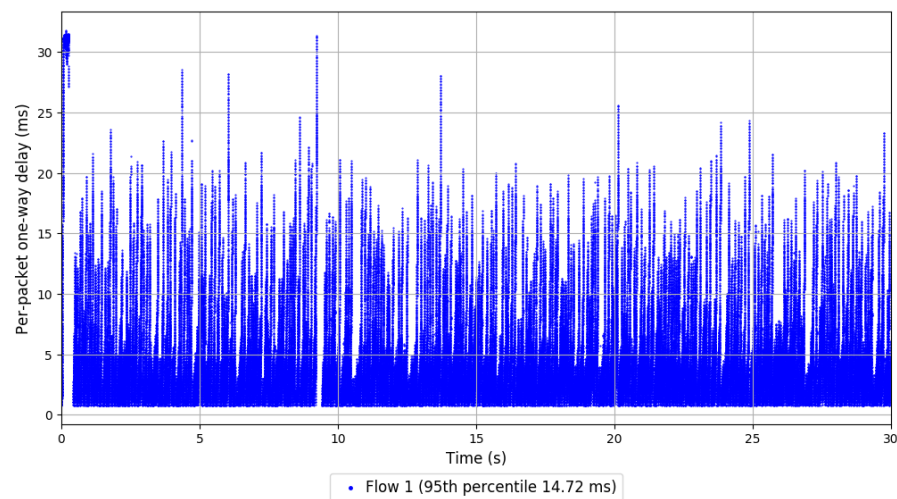
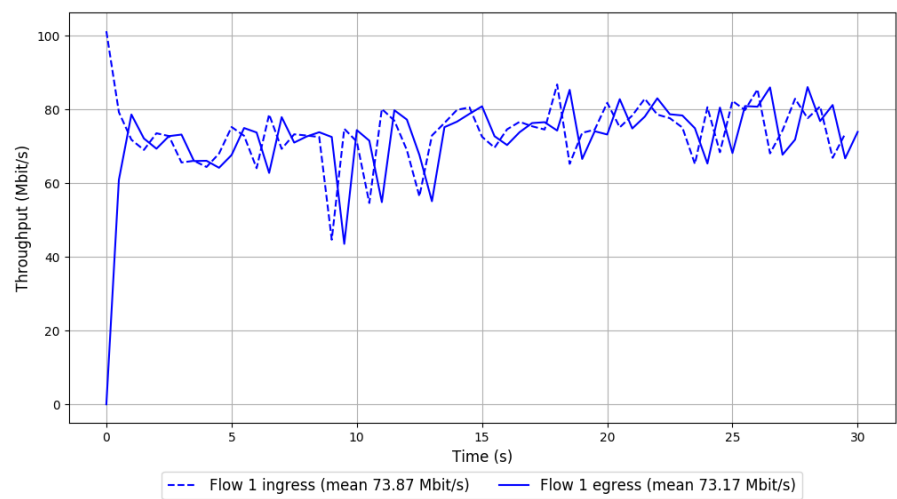


Run 1: Statistics of Verus

Start at: 2018-08-27 20:46:28
End at: 2018-08-27 20:46:58
Local clock offset: 2.022 ms
Remote clock offset: -0.125 ms

Below is generated by plot.py at 2018-08-28 00:03:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 73.17 Mbit/s
95th percentile per-packet one-way delay: 14.722 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 73.17 Mbit/s
95th percentile per-packet one-way delay: 14.722 ms
Loss rate: 0.93%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-08-27 21:05:10

End at: 2018-08-27 21:05:40

Local clock offset: 2.915 ms

Remote clock offset: 0.067 ms

Below is generated by plot.py at 2018-08-28 00:03:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.55 Mbit/s

95th percentile per-packet one-way delay: 14.241 ms

Loss rate: 1.02%

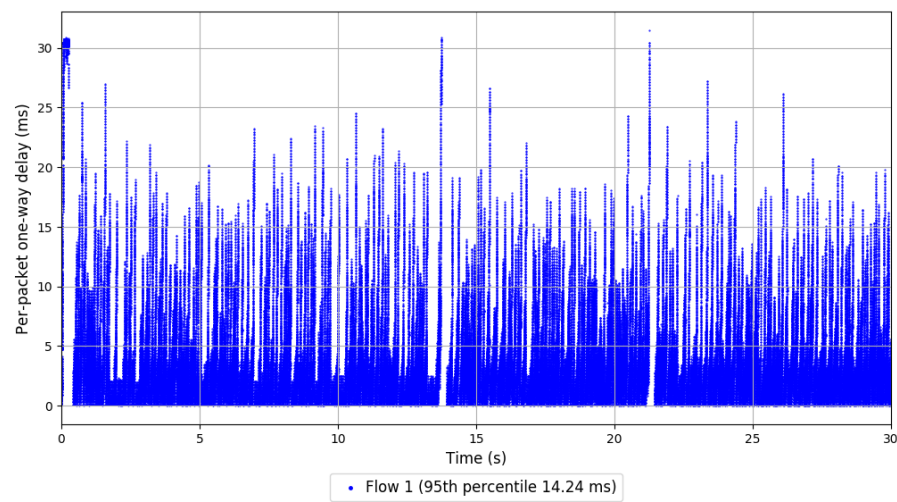
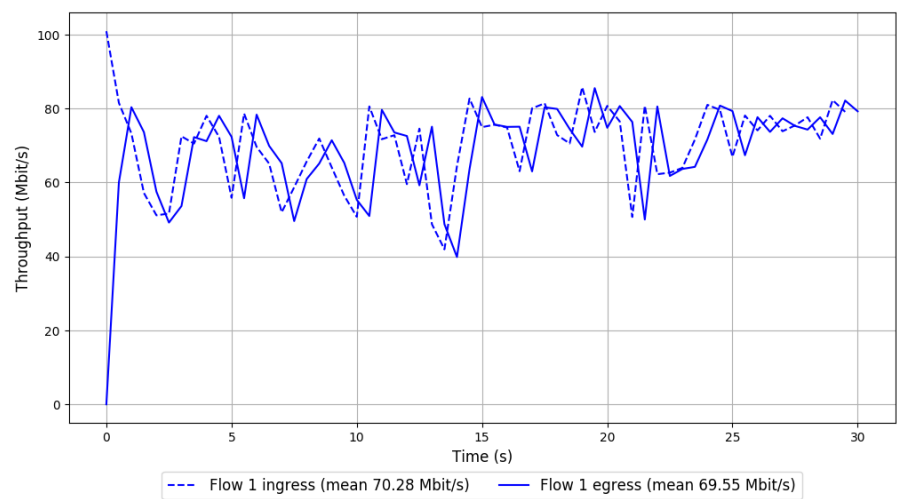
-- Flow 1:

Average throughput: 69.55 Mbit/s

95th percentile per-packet one-way delay: 14.241 ms

Loss rate: 1.02%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-08-27 21:23:59

End at: 2018-08-27 21:24:29

Local clock offset: 1.582 ms

Remote clock offset: 0.055 ms

Below is generated by plot.py at 2018-08-28 00:03:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.91 Mbit/s

95th percentile per-packet one-way delay: 14.679 ms

Loss rate: 0.98%

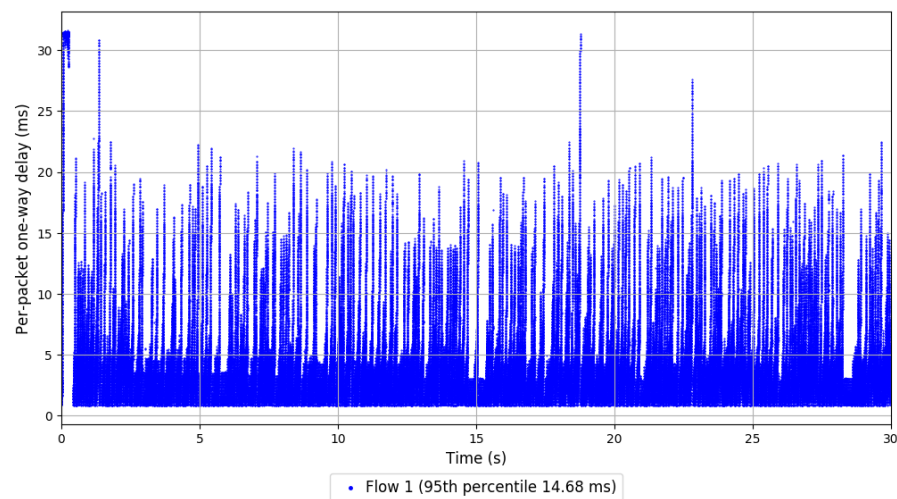
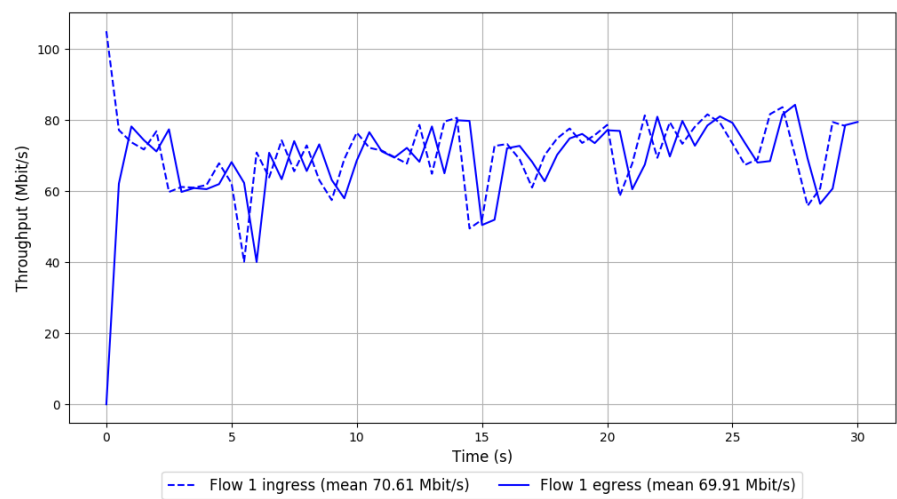
-- Flow 1:

Average throughput: 69.91 Mbit/s

95th percentile per-packet one-way delay: 14.679 ms

Loss rate: 0.98%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-08-27 21:42:45

End at: 2018-08-27 21:43:15

Local clock offset: 5.875 ms

Remote clock offset: 0.202 ms

Below is generated by plot.py at 2018-08-28 00:03:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.96 Mbit/s

95th percentile per-packet one-way delay: 13.341 ms

Loss rate: 1.26%

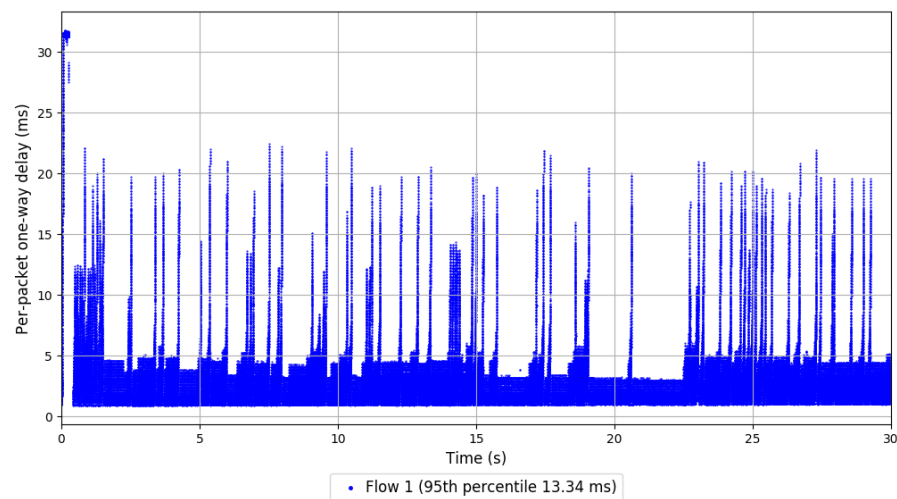
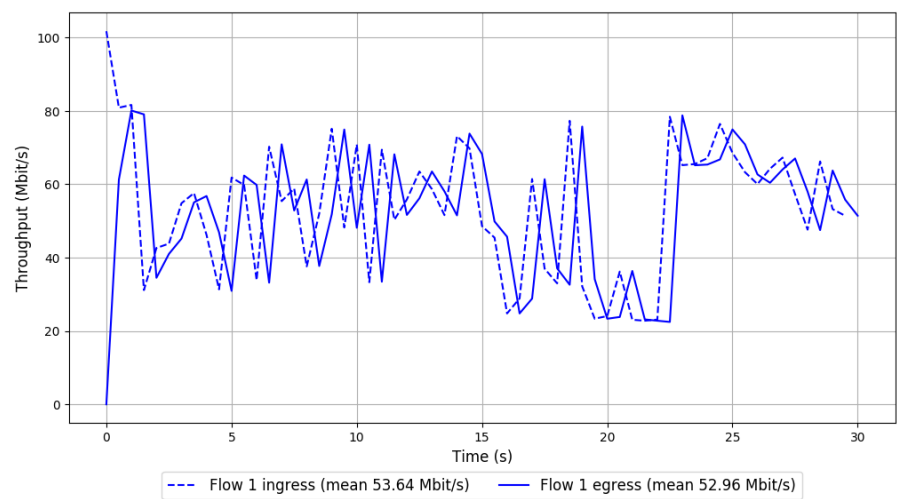
-- Flow 1:

Average throughput: 52.96 Mbit/s

95th percentile per-packet one-way delay: 13.341 ms

Loss rate: 1.26%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-08-27 22:01:29

End at: 2018-08-27 22:01:59

Local clock offset: 8.546 ms

Remote clock offset: 0.042 ms

Below is generated by plot.py at 2018-08-28 00:03:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.37 Mbit/s

95th percentile per-packet one-way delay: 9.982 ms

Loss rate: 0.88%

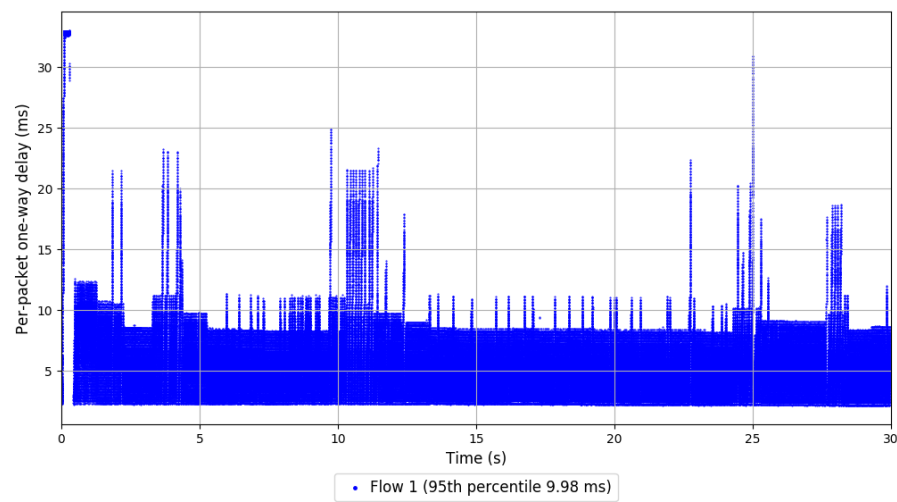
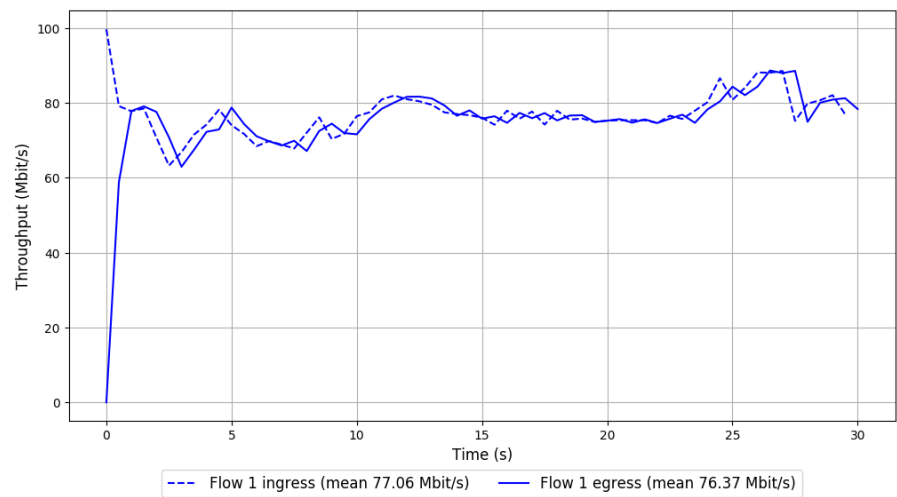
-- Flow 1:

Average throughput: 76.37 Mbit/s

95th percentile per-packet one-way delay: 9.982 ms

Loss rate: 0.88%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-08-27 22:20:14

End at: 2018-08-27 22:20:44

Local clock offset: 3.976 ms

Remote clock offset: 0.079 ms

Below is generated by plot.py at 2018-08-28 00:03:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.15 Mbit/s

95th percentile per-packet one-way delay: 13.101 ms

Loss rate: 0.83%

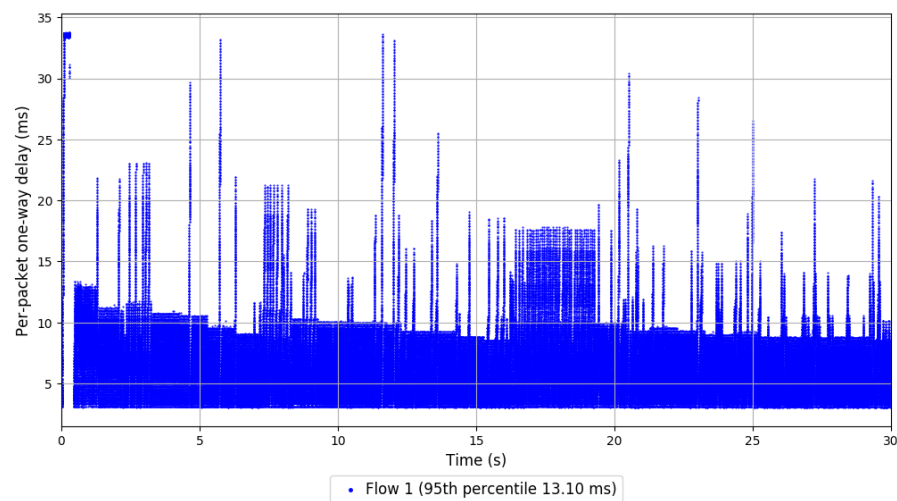
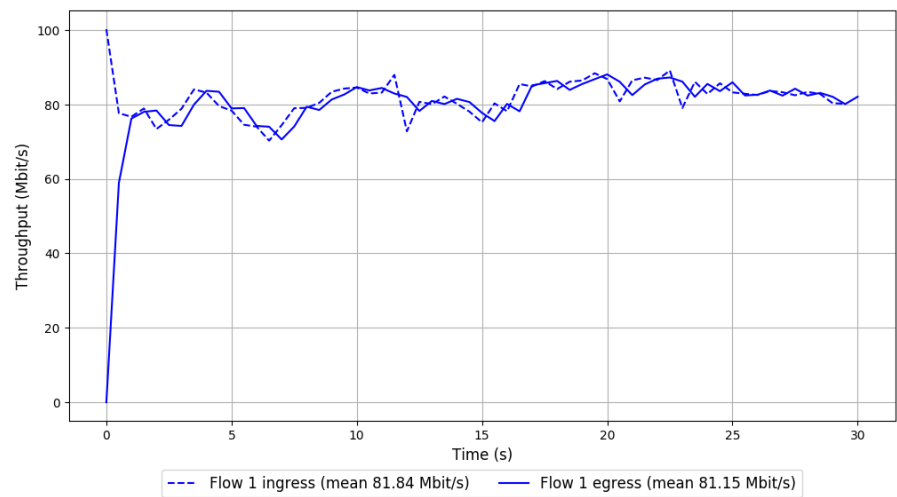
-- Flow 1:

Average throughput: 81.15 Mbit/s

95th percentile per-packet one-way delay: 13.101 ms

Loss rate: 0.83%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-08-27 22:39:00

End at: 2018-08-27 22:39:30

Local clock offset: 4.232 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2018-08-28 00:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.09 Mbit/s

95th percentile per-packet one-way delay: 10.305 ms

Loss rate: 0.87%

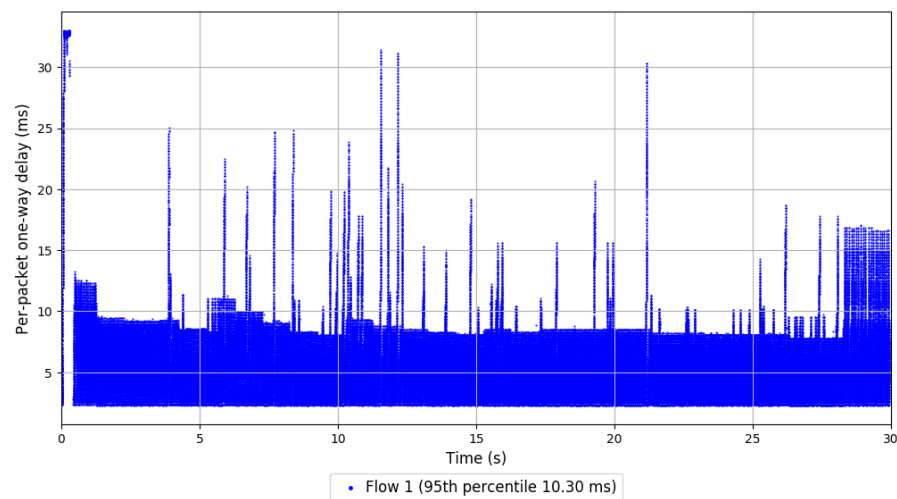
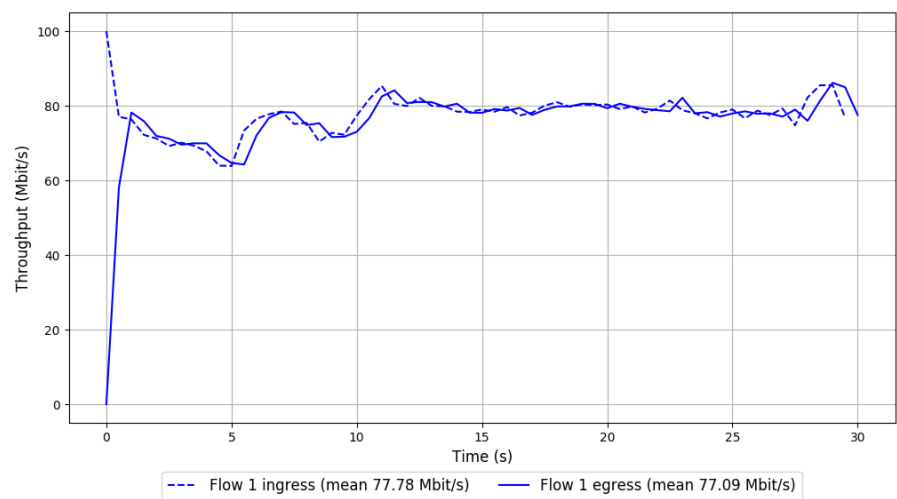
-- Flow 1:

Average throughput: 77.09 Mbit/s

95th percentile per-packet one-way delay: 10.305 ms

Loss rate: 0.87%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-08-27 22:57:46

End at: 2018-08-27 22:58:16

Local clock offset: 4.132 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2018-08-28 00:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.90 Mbit/s

95th percentile per-packet one-way delay: 12.978 ms

Loss rate: 1.20%

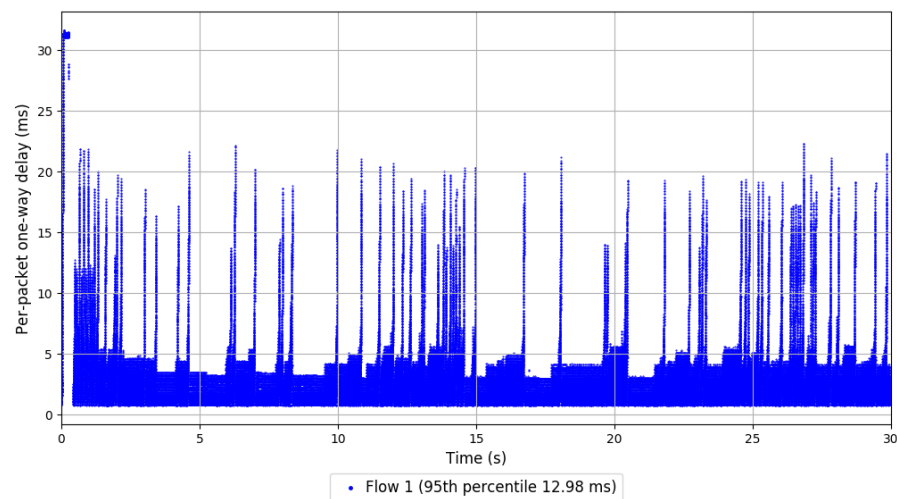
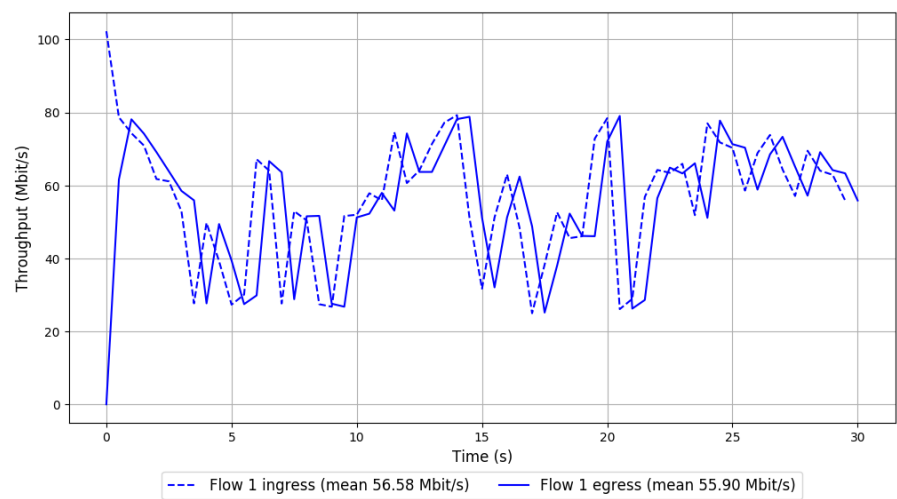
-- Flow 1:

Average throughput: 55.90 Mbit/s

95th percentile per-packet one-way delay: 12.978 ms

Loss rate: 1.20%

Run 8: Report of Verus — Data Link

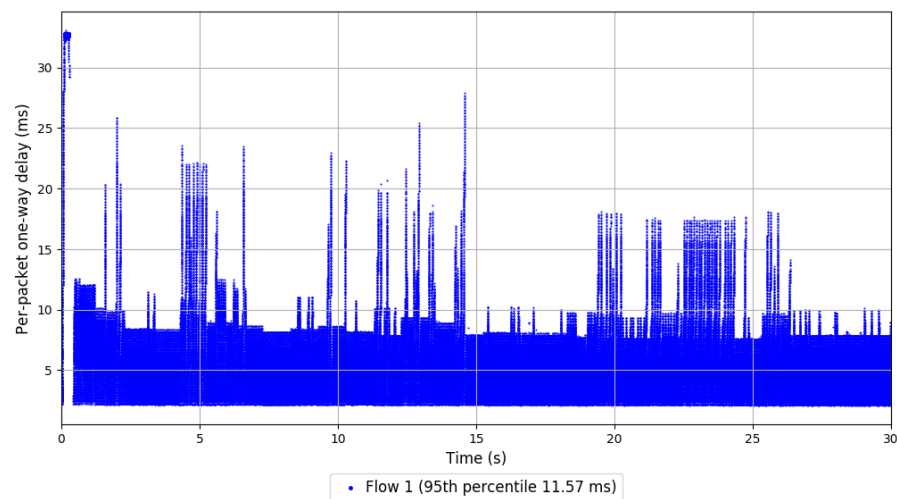
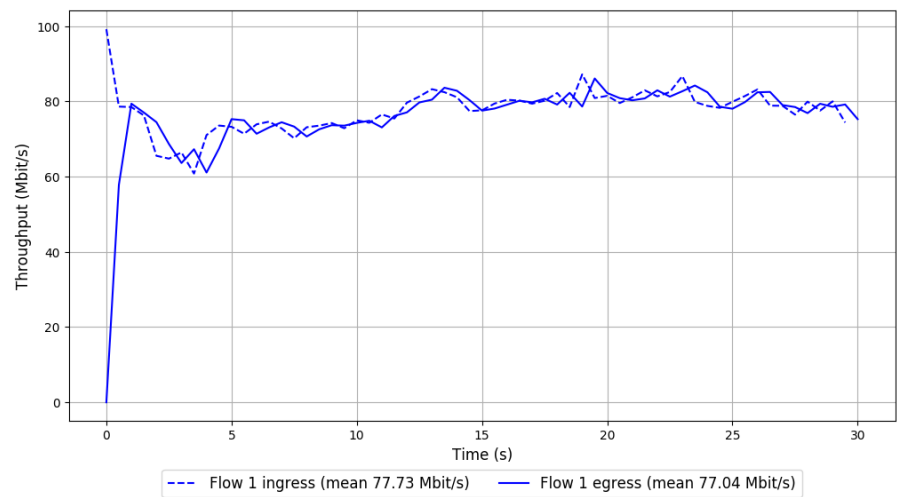


Run 9: Statistics of Verus

Start at: 2018-08-27 23:16:30
End at: 2018-08-27 23:17:00
Local clock offset: -1.302 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2018-08-28 00:04:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.04 Mbit/s
95th percentile per-packet one-way delay: 11.569 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 77.04 Mbit/s
95th percentile per-packet one-way delay: 11.569 ms
Loss rate: 0.87%

Run 9: Report of Verus — Data Link

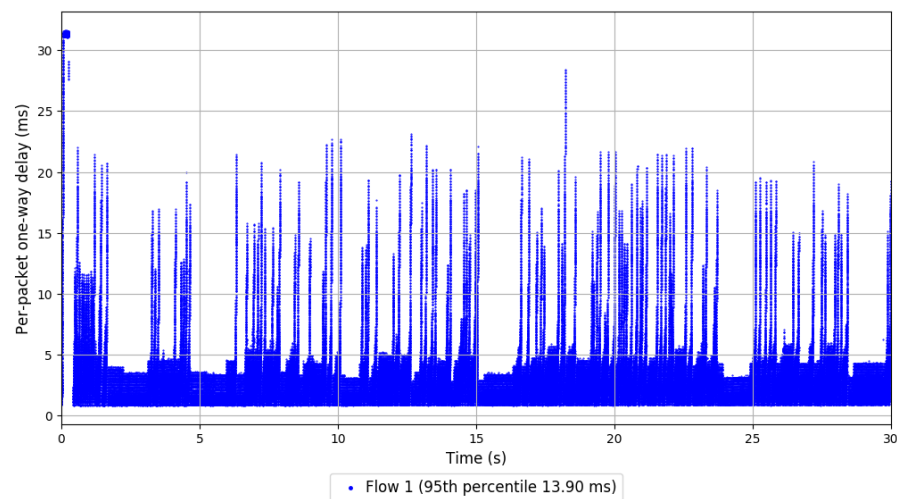
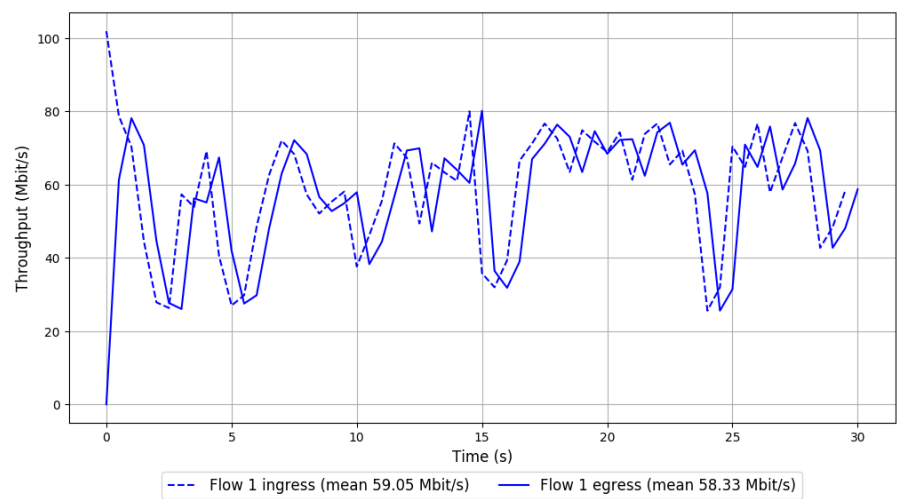


Run 10: Statistics of Verus

Start at: 2018-08-27 23:35:20
End at: 2018-08-27 23:35:50
Local clock offset: -2.813 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2018-08-28 00:04:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 58.33 Mbit/s
95th percentile per-packet one-way delay: 13.900 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 58.33 Mbit/s
95th percentile per-packet one-way delay: 13.900 ms
Loss rate: 1.15%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-08-27 20:44:12

End at: 2018-08-27 20:44:42

Local clock offset: 2.76 ms

Remote clock offset: -0.038 ms

Below is generated by plot.py at 2018-08-28 00:04:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.46 Mbit/s

95th percentile per-packet one-way delay: 31.060 ms

Loss rate: 0.97%

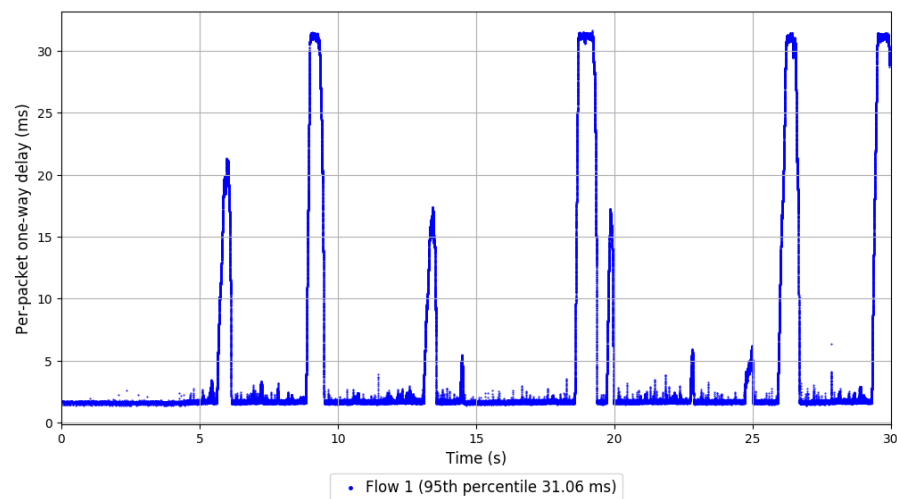
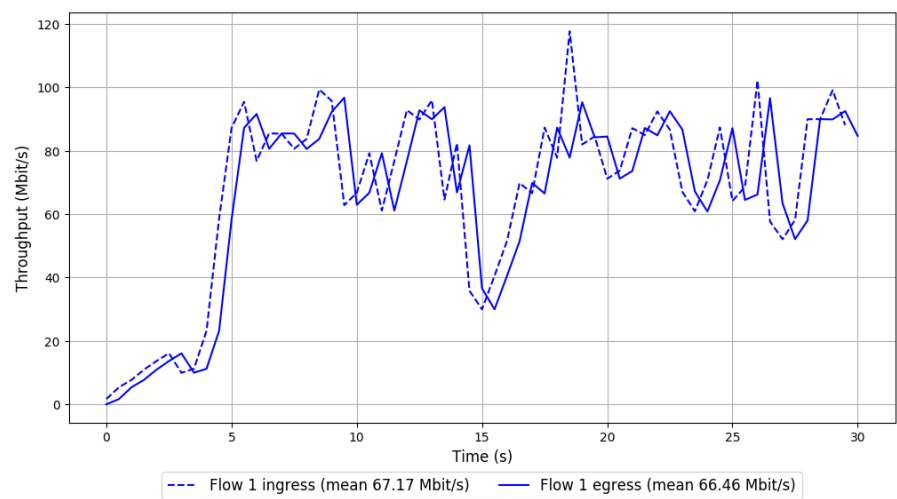
-- Flow 1:

Average throughput: 66.46 Mbit/s

95th percentile per-packet one-way delay: 31.060 ms

Loss rate: 0.97%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-08-27 21:02:54

End at: 2018-08-27 21:03:24

Local clock offset: 2.339 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2018-08-28 00:04:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.10 Mbit/s

95th percentile per-packet one-way delay: 24.206 ms

Loss rate: 0.34%

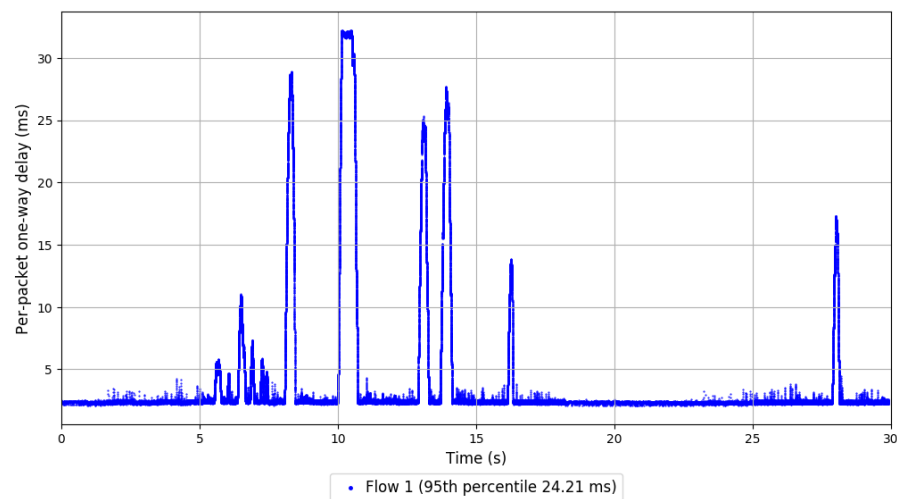
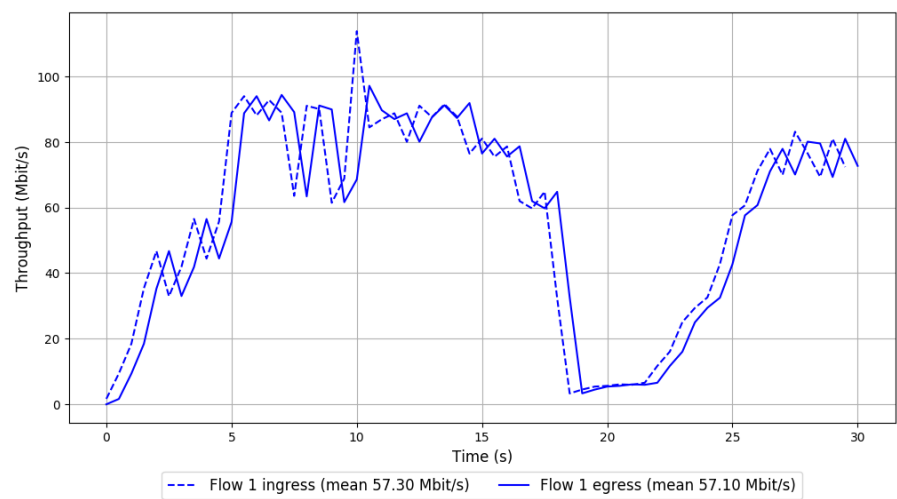
-- Flow 1:

Average throughput: 57.10 Mbit/s

95th percentile per-packet one-way delay: 24.206 ms

Loss rate: 0.34%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-08-27 21:21:43

End at: 2018-08-27 21:22:13

Local clock offset: 2.439 ms

Remote clock offset: 0.057 ms

Below is generated by plot.py at 2018-08-28 00:04:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.73 Mbit/s

95th percentile per-packet one-way delay: 20.857 ms

Loss rate: 0.22%

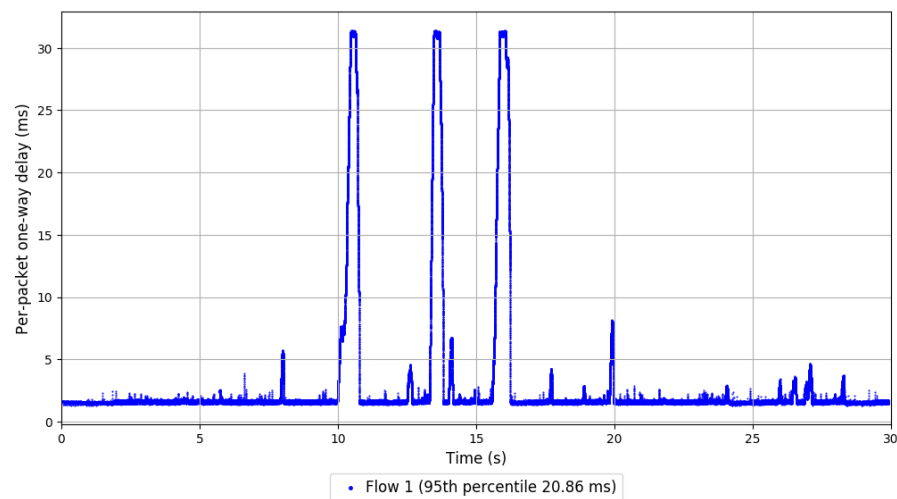
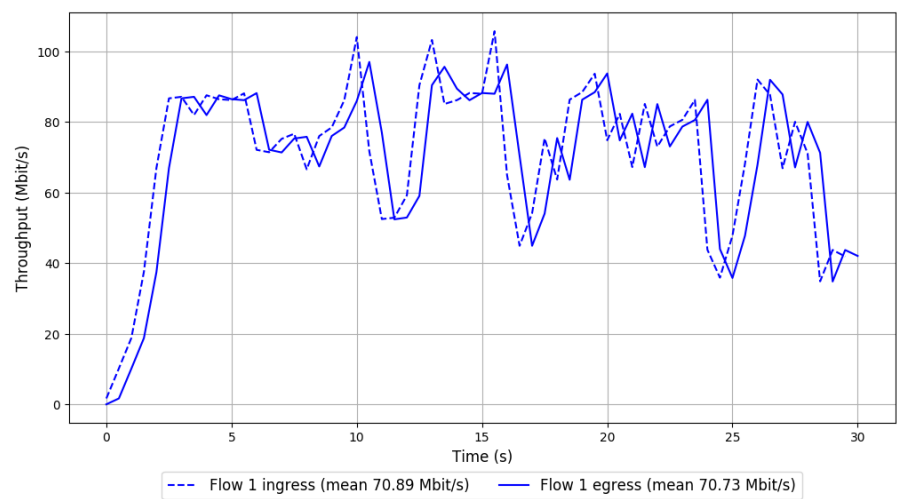
-- Flow 1:

Average throughput: 70.73 Mbit/s

95th percentile per-packet one-way delay: 20.857 ms

Loss rate: 0.22%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-08-27 21:40:28

End at: 2018-08-27 21:40:58

Local clock offset: 4.445 ms

Remote clock offset: 0.201 ms

Below is generated by plot.py at 2018-08-28 00:04:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.17 Mbit/s

95th percentile per-packet one-way delay: 3.914 ms

Loss rate: 0.00%

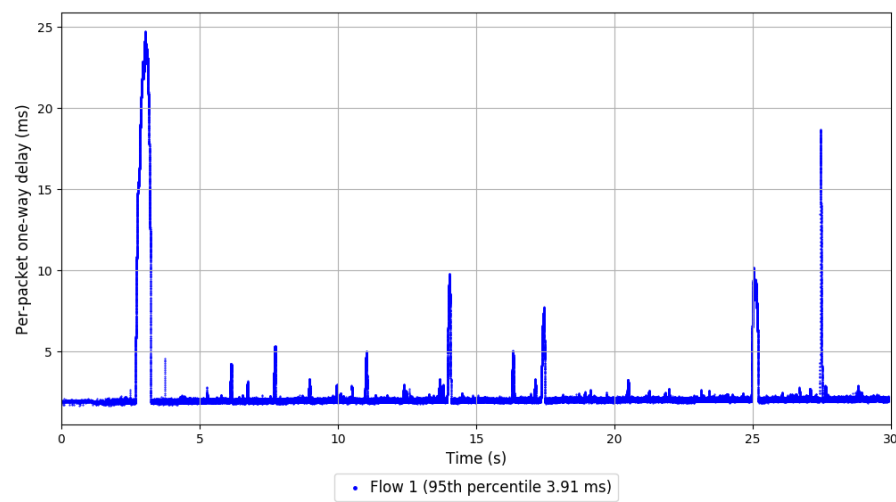
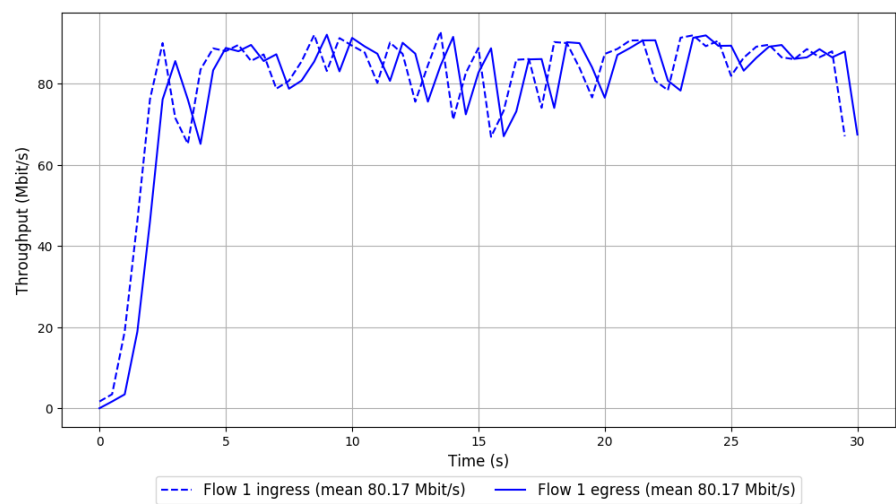
-- Flow 1:

Average throughput: 80.17 Mbit/s

95th percentile per-packet one-way delay: 3.914 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-08-27 21:59:12

End at: 2018-08-27 21:59:42

Local clock offset: 7.537 ms

Remote clock offset: 0.085 ms

Below is generated by plot.py at 2018-08-28 00:05:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.37 Mbit/s

95th percentile per-packet one-way delay: 3.417 ms

Loss rate: 0.00%

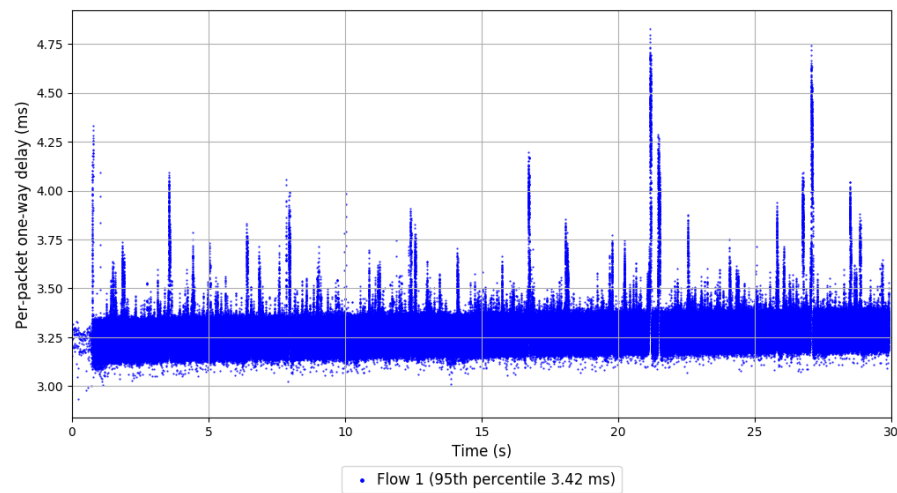
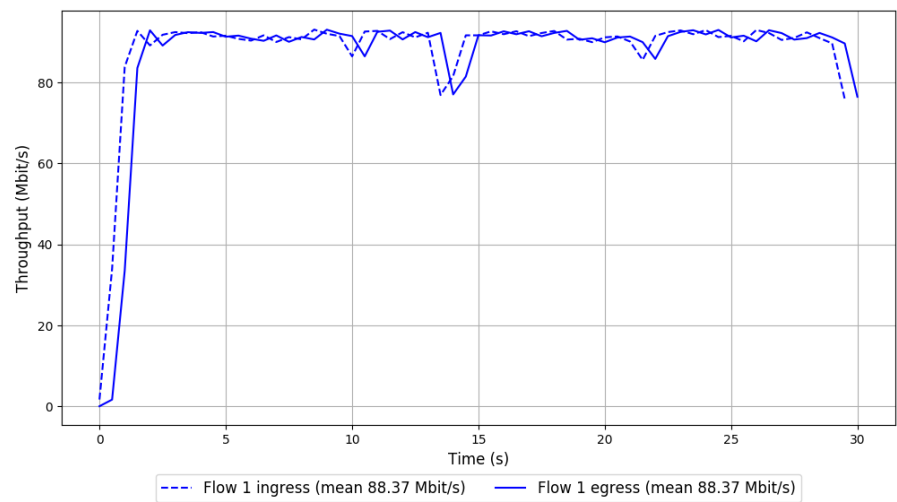
-- Flow 1:

Average throughput: 88.37 Mbit/s

95th percentile per-packet one-way delay: 3.417 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-08-27 22:17:58

End at: 2018-08-27 22:18:28

Local clock offset: 4.908 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-08-28 00:05:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.22 Mbit/s

95th percentile per-packet one-way delay: 1.085 ms

Loss rate: 0.00%

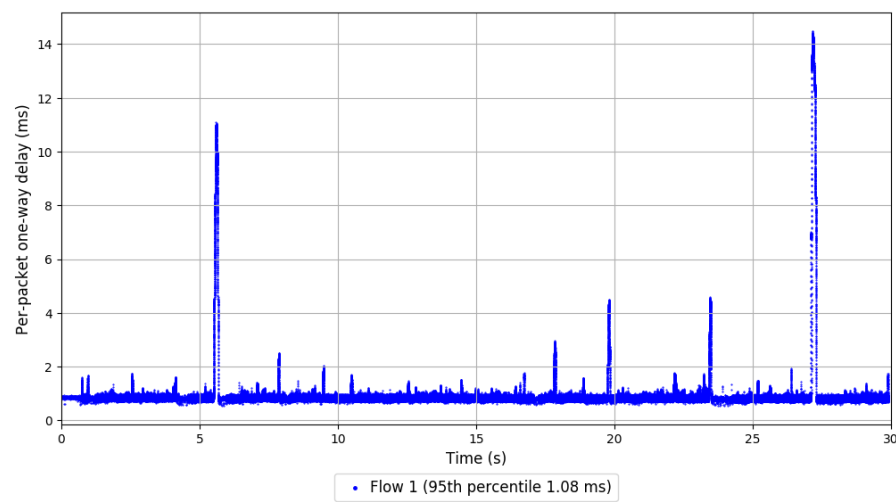
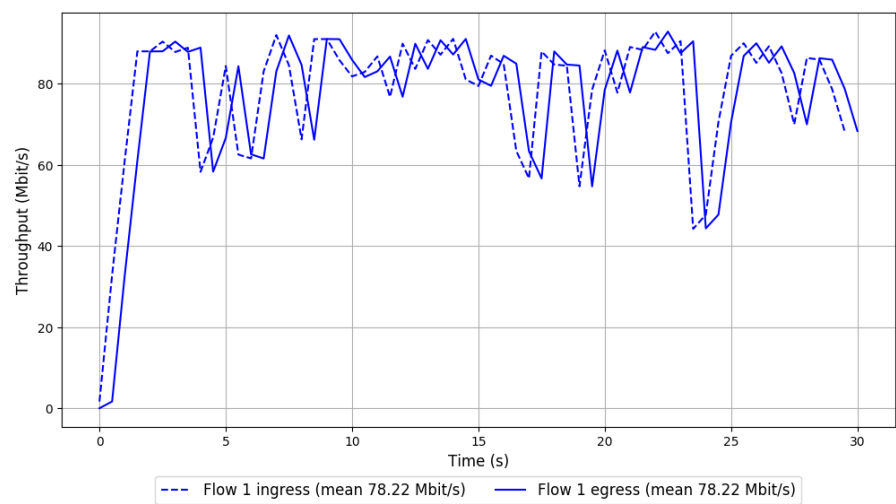
-- Flow 1:

Average throughput: 78.22 Mbit/s

95th percentile per-packet one-way delay: 1.085 ms

Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-08-27 22:36:44

End at: 2018-08-27 22:37:14

Local clock offset: 5.054 ms

Remote clock offset: -0.009 ms

Below is generated by plot.py at 2018-08-28 00:05:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.06 Mbit/s

95th percentile per-packet one-way delay: 2.009 ms

Loss rate: 0.00%

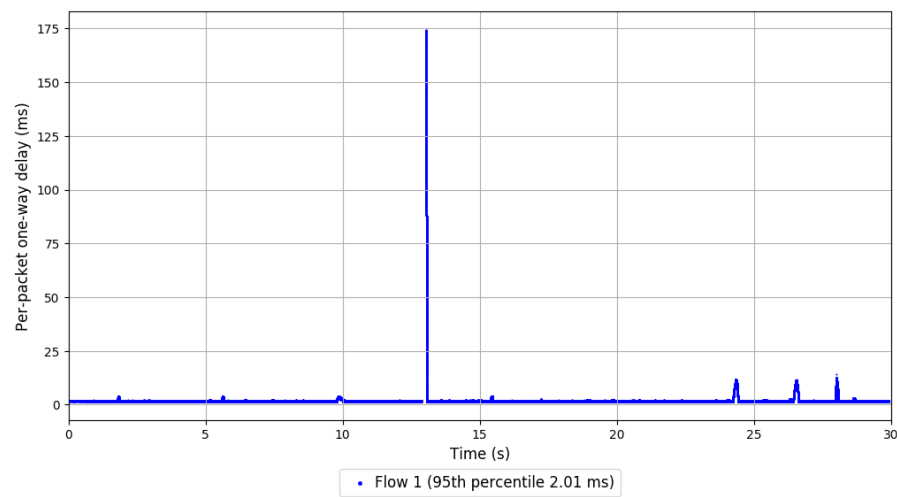
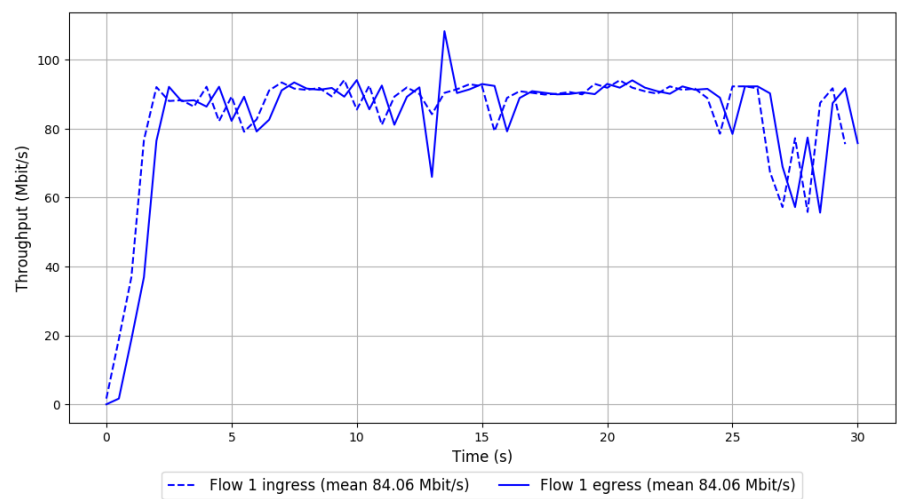
-- Flow 1:

Average throughput: 84.06 Mbit/s

95th percentile per-packet one-way delay: 2.009 ms

Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-08-27 22:55:29

End at: 2018-08-27 22:55:59

Local clock offset: 4.899 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-08-28 00:05:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.17 Mbit/s

95th percentile per-packet one-way delay: 3.860 ms

Loss rate: 0.06%

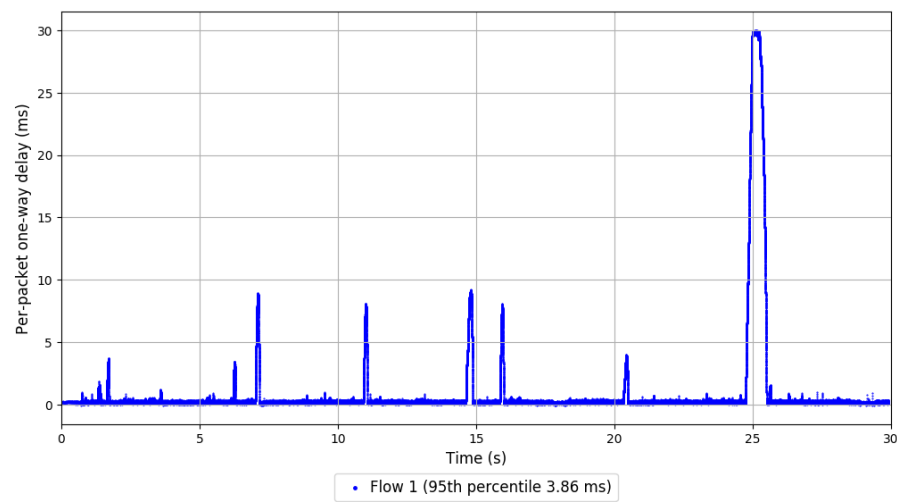
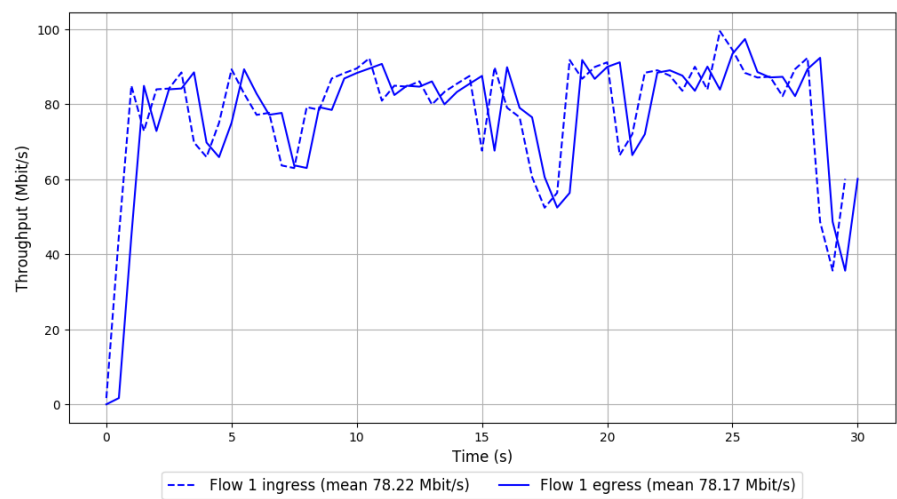
-- Flow 1:

Average throughput: 78.17 Mbit/s

95th percentile per-packet one-way delay: 3.860 ms

Loss rate: 0.06%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-08-27 23:14:13

End at: 2018-08-27 23:14:43

Local clock offset: -0.047 ms

Remote clock offset: 0.036 ms

Below is generated by plot.py at 2018-08-28 00:05:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.36 Mbit/s

95th percentile per-packet one-way delay: 1.683 ms

Loss rate: 0.00%

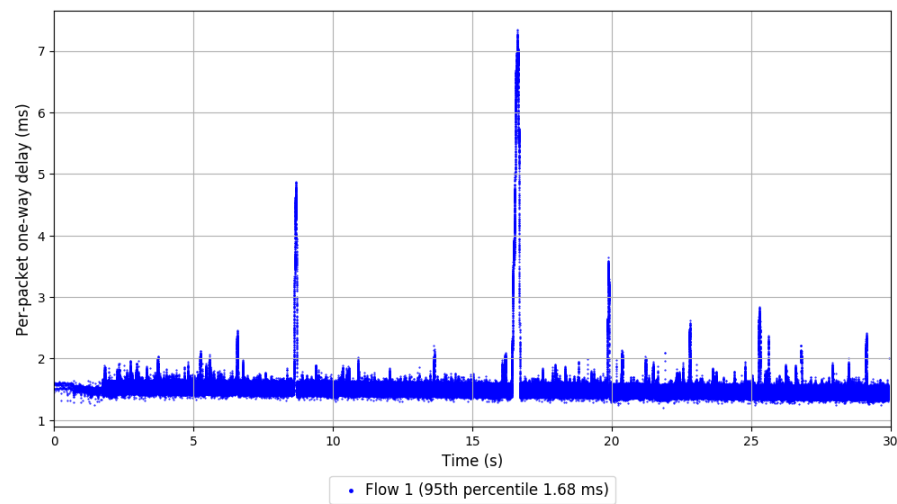
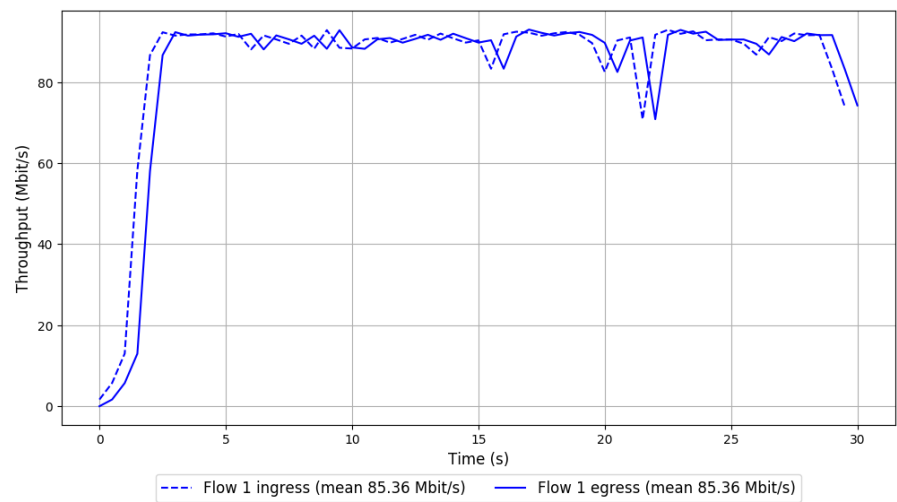
-- Flow 1:

Average throughput: 85.36 Mbit/s

95th percentile per-packet one-way delay: 1.683 ms

Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-08-27 23:33:04

End at: 2018-08-27 23:33:34

Local clock offset: -2.378 ms

Remote clock offset: -0.074 ms

Below is generated by plot.py at 2018-08-28 00:05:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.49 Mbit/s

95th percentile per-packet one-way delay: 0.653 ms

Loss rate: 0.00%

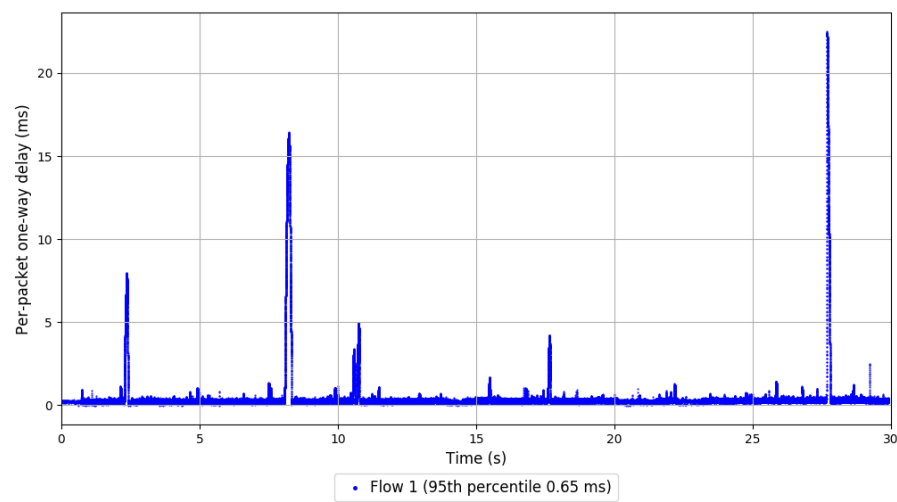
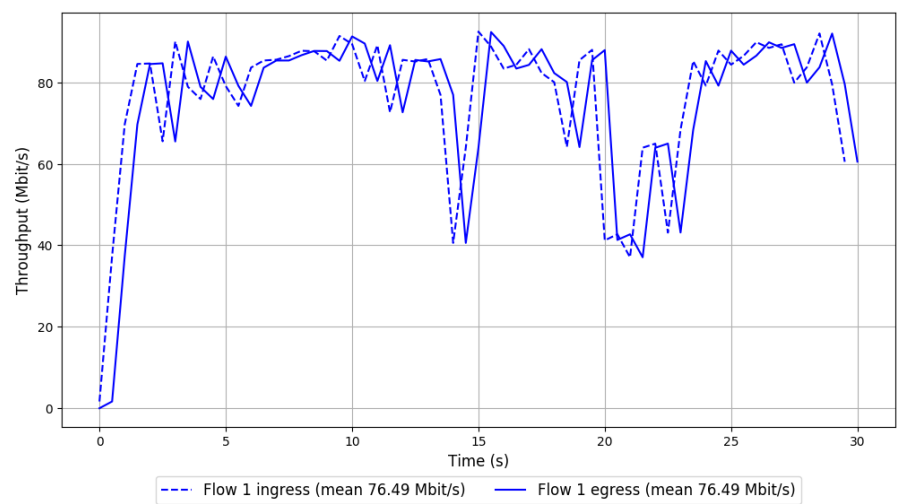
-- Flow 1:

Average throughput: 76.49 Mbit/s

95th percentile per-packet one-way delay: 0.653 ms

Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-08-27 20:43:08

End at: 2018-08-27 20:43:38

Local clock offset: 2.737 ms

Remote clock offset: -0.046 ms

Below is generated by plot.py at 2018-08-28 00:05:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 0.896 ms

Loss rate: 0.00%

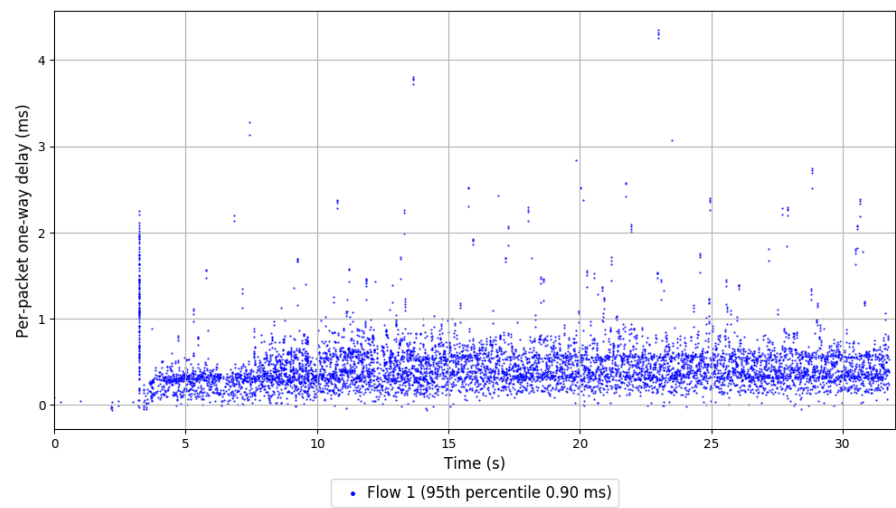
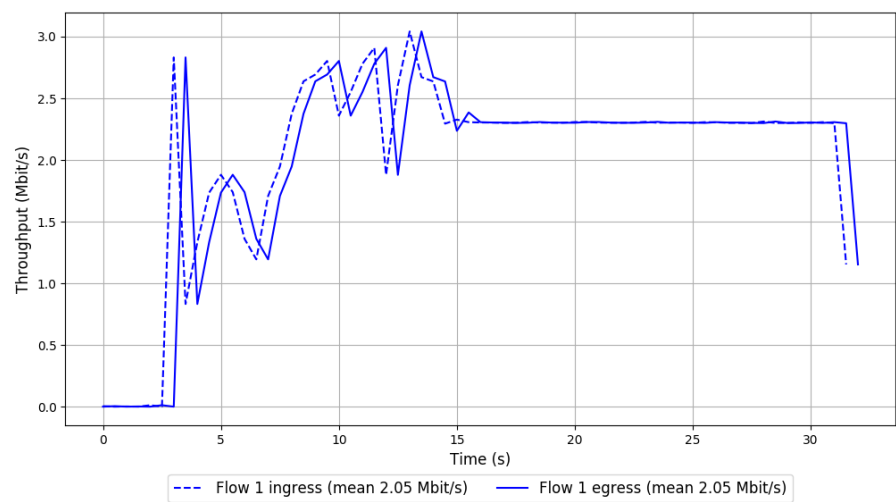
-- Flow 1:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 0.896 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-08-27 21:01:51

End at: 2018-08-27 21:02:21

Local clock offset: 2.338 ms

Remote clock offset: -0.01 ms

Below is generated by plot.py at 2018-08-28 00:05:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 1.686 ms

Loss rate: 0.00%

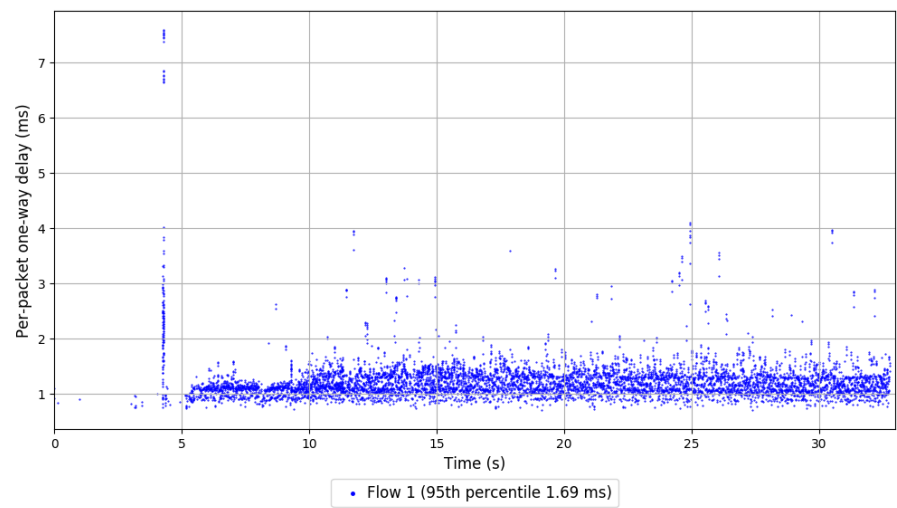
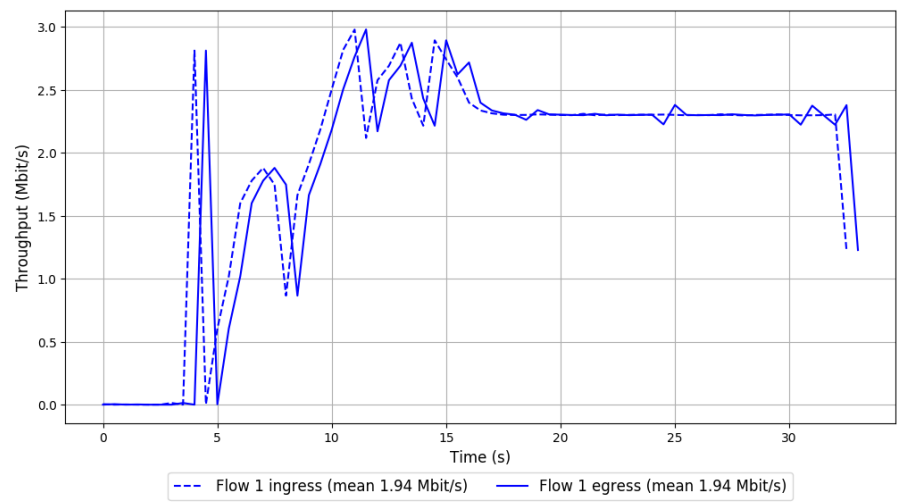
-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 1.686 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-08-27 21:20:40

End at: 2018-08-27 21:21:10

Local clock offset: 0.847 ms

Remote clock offset: 0.123 ms

Below is generated by plot.py at 2018-08-28 00:05:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 3.836 ms

Loss rate: 0.00%

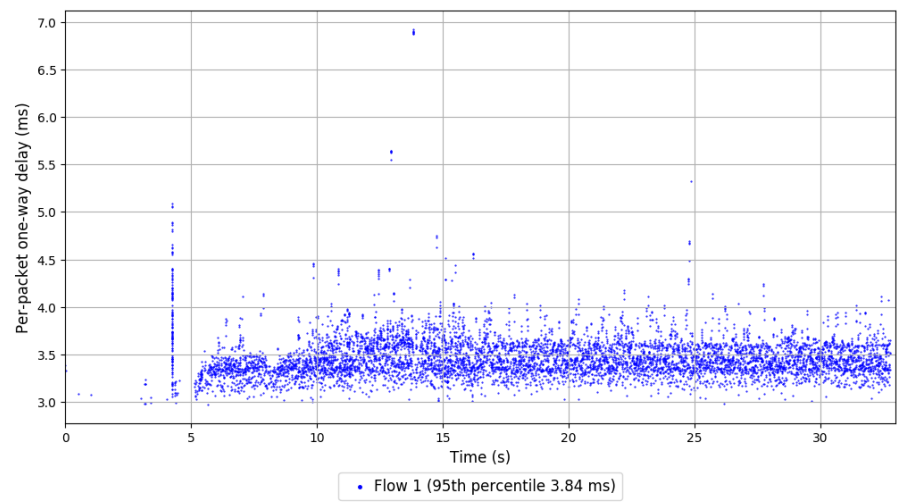
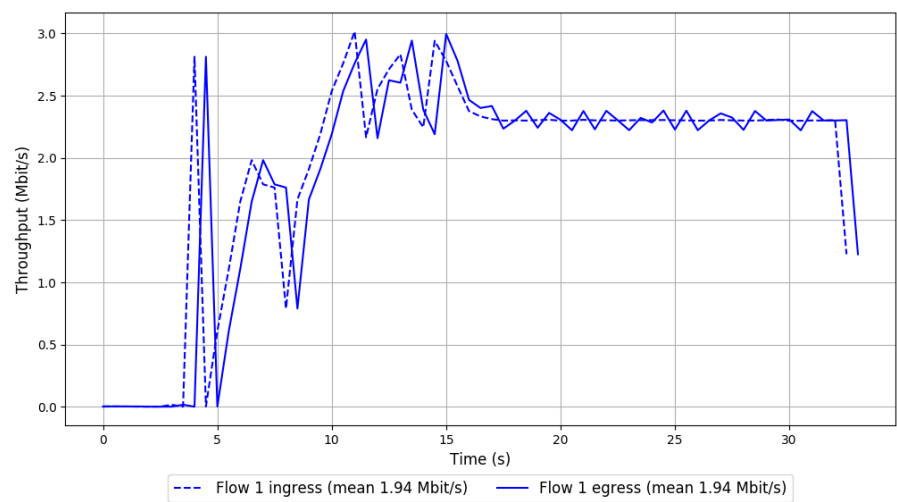
-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 3.836 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-08-27 21:39:25

End at: 2018-08-27 21:39:55

Local clock offset: 4.974 ms

Remote clock offset: 0.145 ms

Below is generated by plot.py at 2018-08-28 00:05:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 3.022 ms

Loss rate: 0.00%

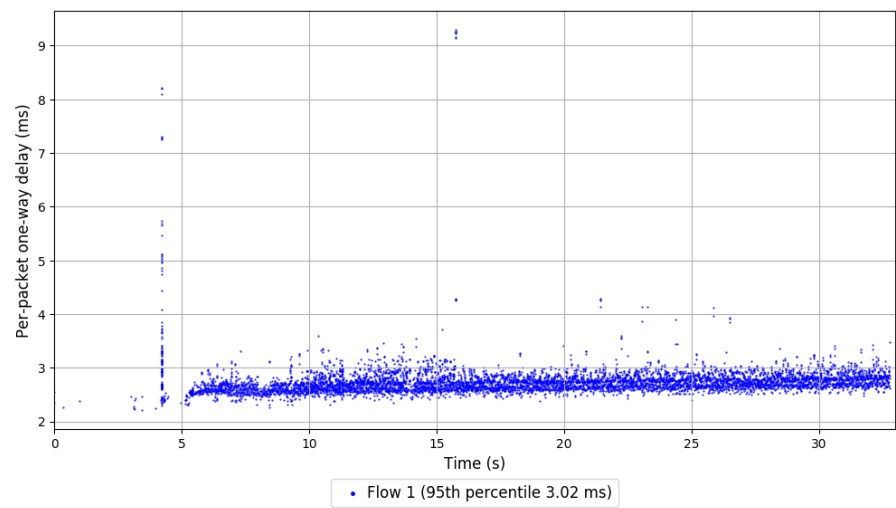
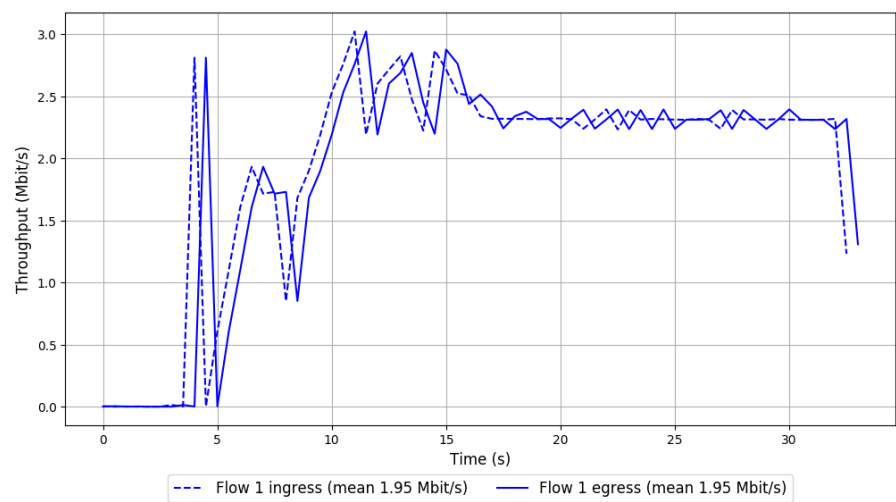
-- Flow 1:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 3.022 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-08-27 21:58:08

End at: 2018-08-27 21:58:39

Local clock offset: 8.959 ms

Remote clock offset: 0.084 ms

Below is generated by plot.py at 2018-08-28 00:05:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 0.880 ms

Loss rate: 0.00%

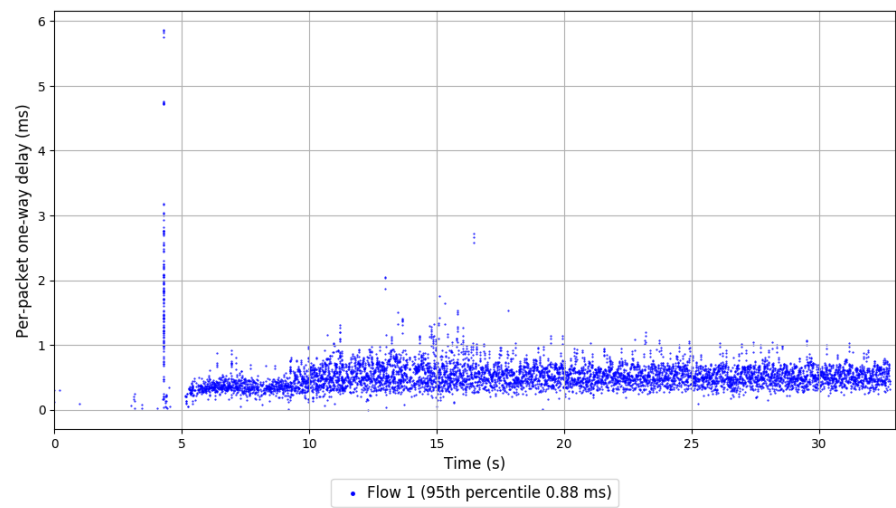
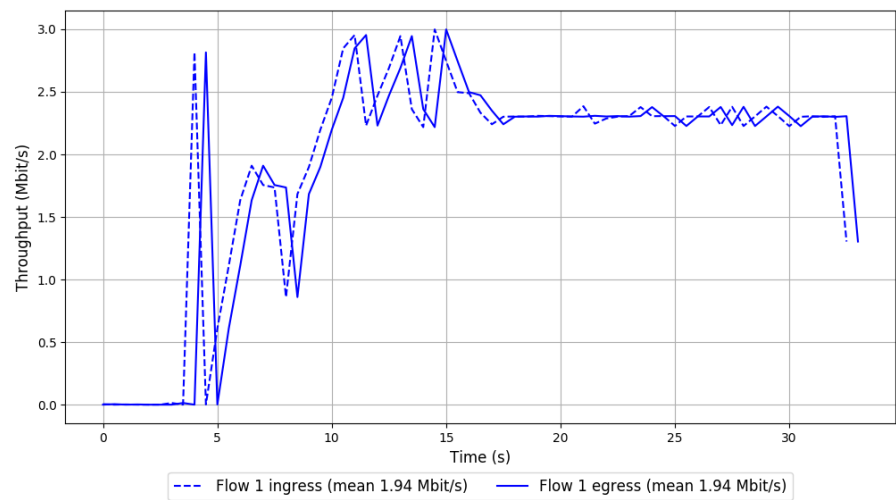
-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 0.880 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-08-27 22:16:54

End at: 2018-08-27 22:17:24

Local clock offset: 4.154 ms

Remote clock offset: 0.112 ms

Below is generated by plot.py at 2018-08-28 00:05:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 3.712 ms

Loss rate: 0.00%

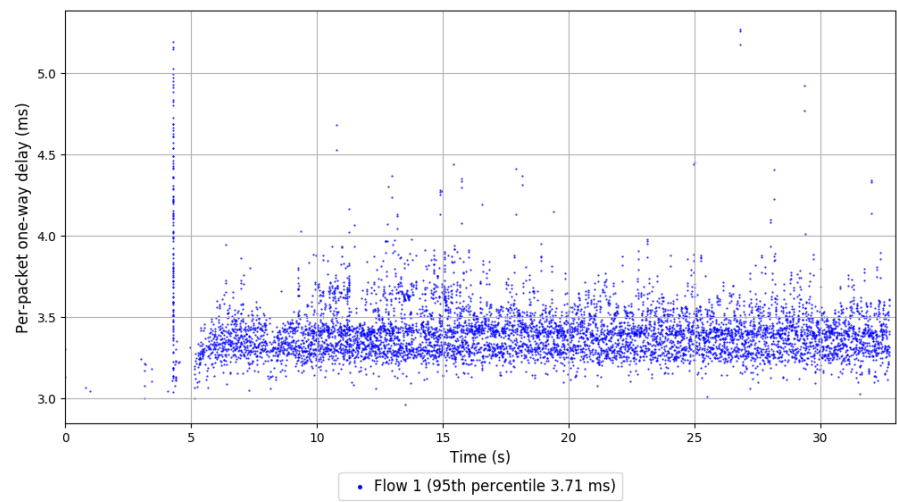
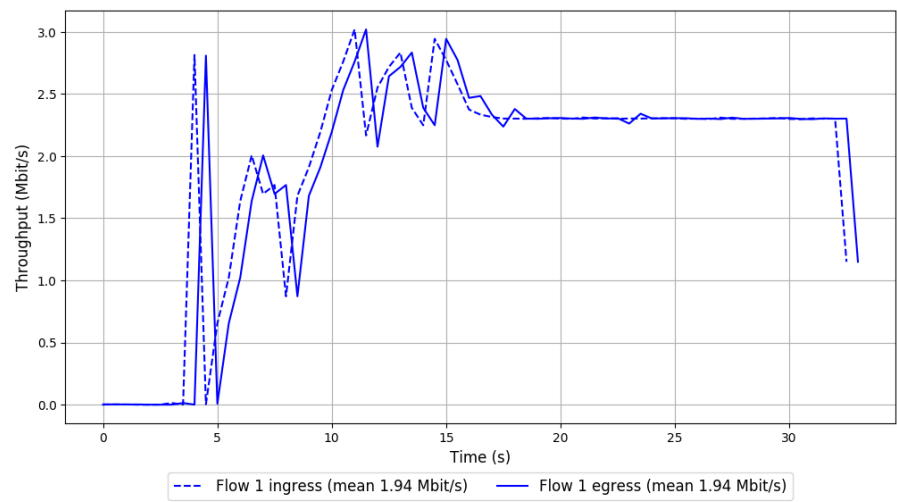
-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 3.712 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-08-27 22:35:40

End at: 2018-08-27 22:36:10

Local clock offset: 4.305 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-08-28 00:05:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 1.555 ms

Loss rate: 0.00%

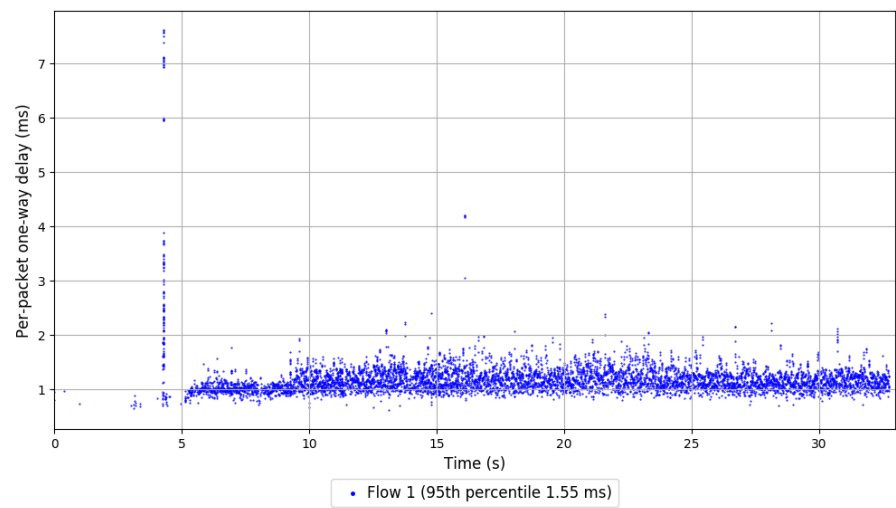
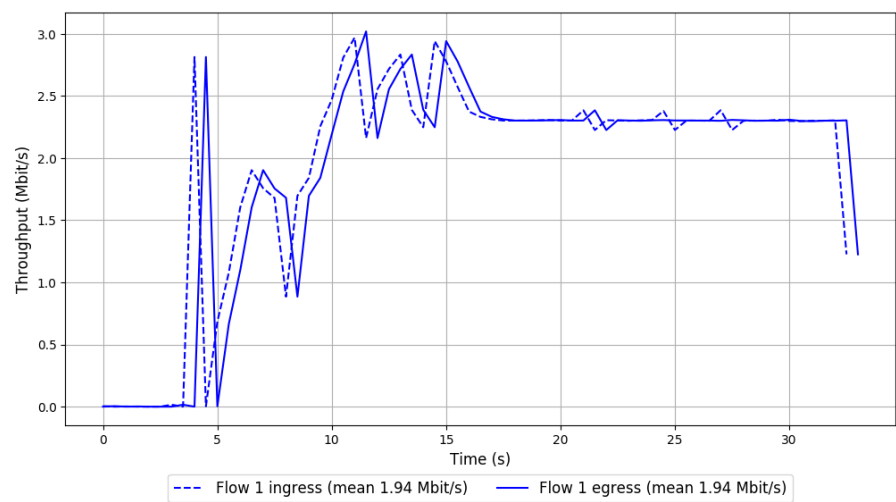
-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 1.555 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

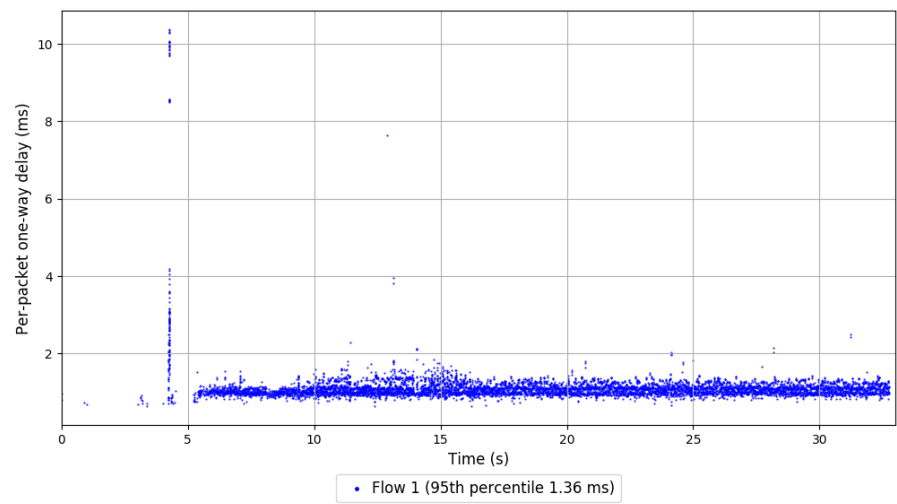
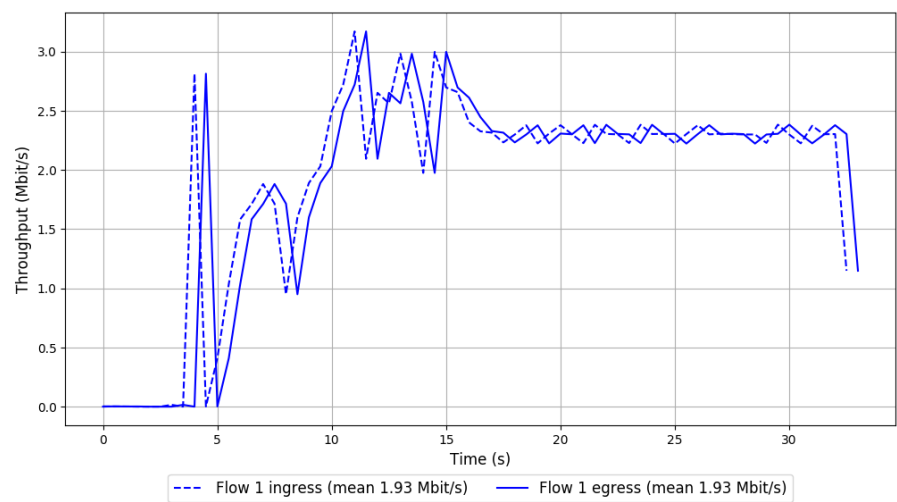


Run 8: Statistics of WebRTC media

Start at: 2018-08-27 22:54:26
End at: 2018-08-27 22:54:56
Local clock offset: 4.125 ms
Remote clock offset: -0.028 ms

Below is generated by plot.py at 2018-08-28 00:05:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 1.365 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 1.365 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-08-27 23:13:10

End at: 2018-08-27 23:13:40

Local clock offset: -1.344 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2018-08-28 00:05:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 3.589 ms

Loss rate: 0.00%

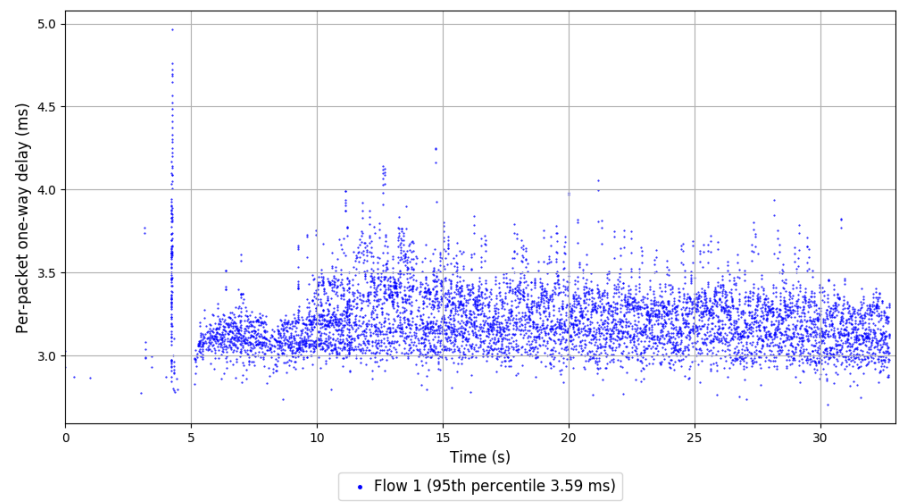
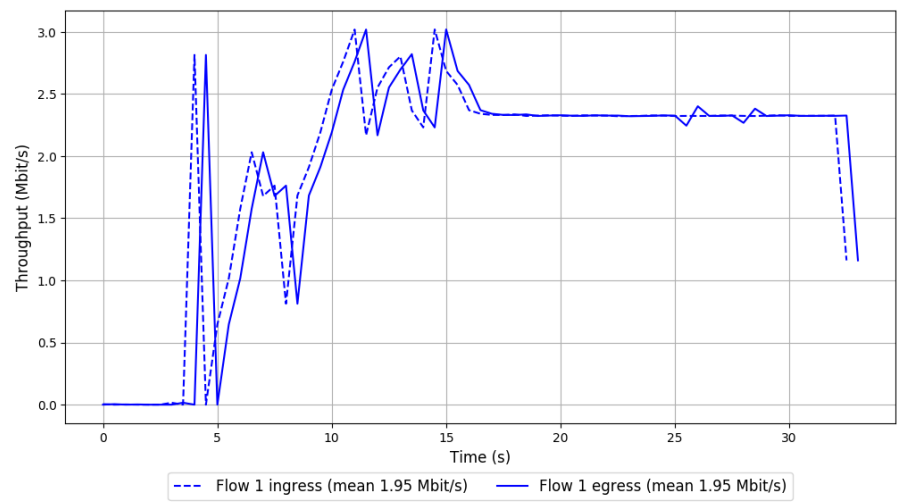
-- Flow 1:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 3.589 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-08-27 23:32:00

End at: 2018-08-27 23:32:30

Local clock offset: -4.115 ms

Remote clock offset: 0.013 ms

Below is generated by plot.py at 2018-08-28 00:05:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 4.024 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 4.024 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

