

Pantheon Report

Generated at 2018-08-28 00:09:25 (UTC).

Data path: AWS Brazil 2 ens5 (*local*) → Colombia 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.

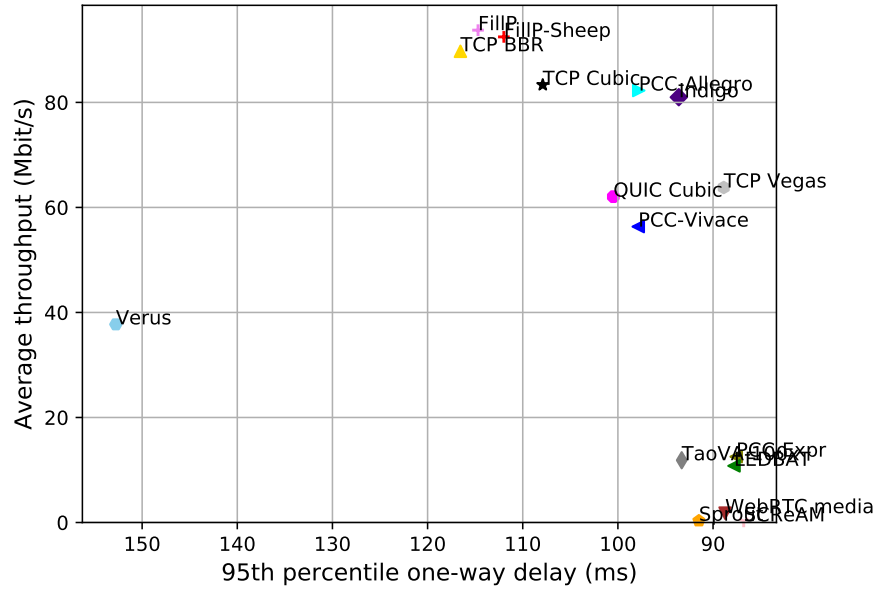
System info:

```
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
```

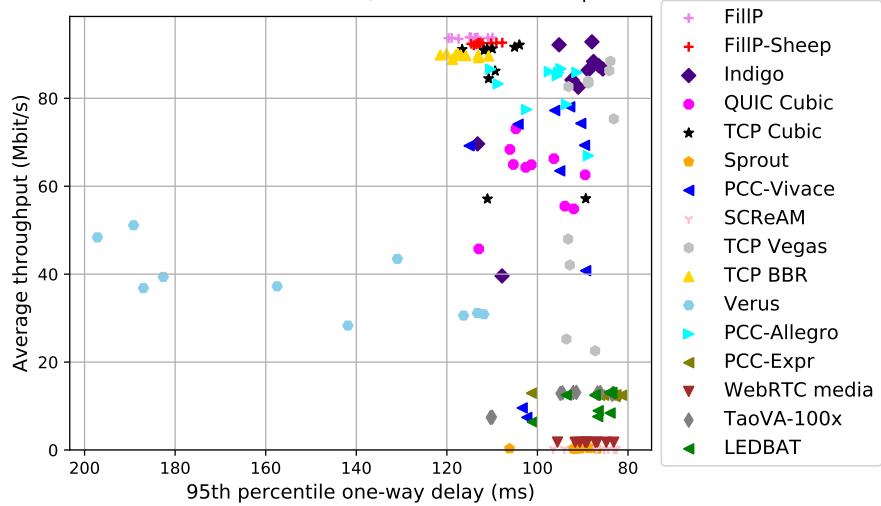
Git summary:

```
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 2 to Colombia, 10 runs of 30s each per scheme
(mean of all runs by scheme)



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	89.73	116.55	3.22
Copa	0	N/A	N/A	N/A
TCP Cubic	10	83.33	107.90	0.61
FillP	10	93.76	114.70	7.64
FillP-Sheep	10	92.47	111.98	2.19
Indigo	10	80.98	93.60	0.65
LEDBAT	10	10.79	87.80	0.03
PCC-Allegro	10	82.26	97.81	1.56
PCC-Expr	9	12.54	87.57	43.24
QUIC Cubic	10	62.05	100.48	0.42
SCReAM	10	0.22	86.78	0.01
Sprout	10	0.34	91.49	0.06
TaoVA-100x	10	11.86	93.29	17.65
TCP Vegas	10	63.79	88.88	0.65
Verus	10	37.73	152.76	59.11
PCC-Vivace	10	56.35	97.86	0.10
WebRTC media	10	1.78	88.74	0.01

Run 1: Statistics of TCP BBR

Start at: 2018-08-27 20:46:43

End at: 2018-08-27 20:47:13

Local clock offset: 5.328 ms

Remote clock offset: 2.758 ms

Below is generated by plot.py at 2018-08-27 23:56:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.65 Mbit/s

95th percentile per-packet one-way delay: 110.767 ms

Loss rate: 3.06%

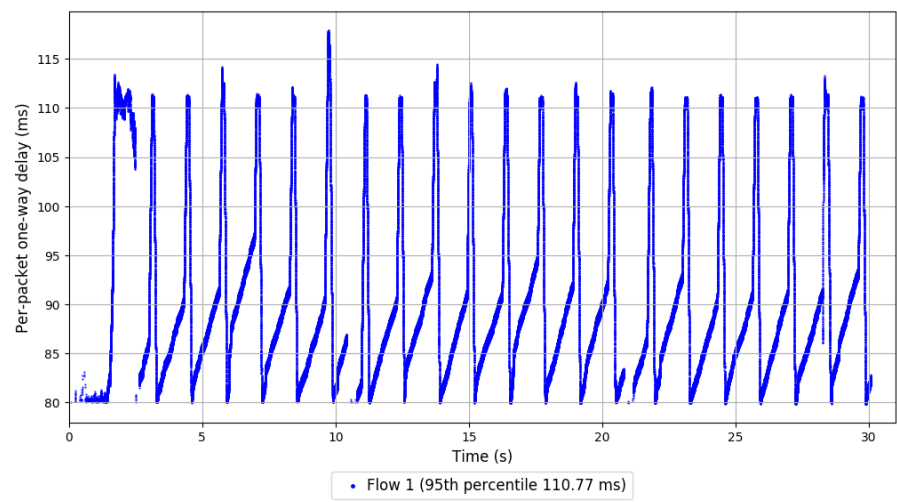
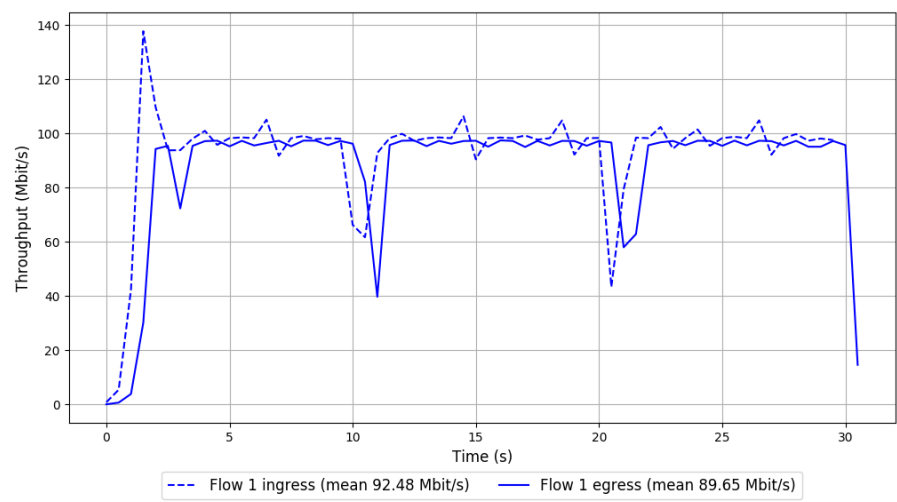
-- Flow 1:

Average throughput: 89.65 Mbit/s

95th percentile per-packet one-way delay: 110.767 ms

Loss rate: 3.06%

Run 1: Report of TCP BBR — Data Link

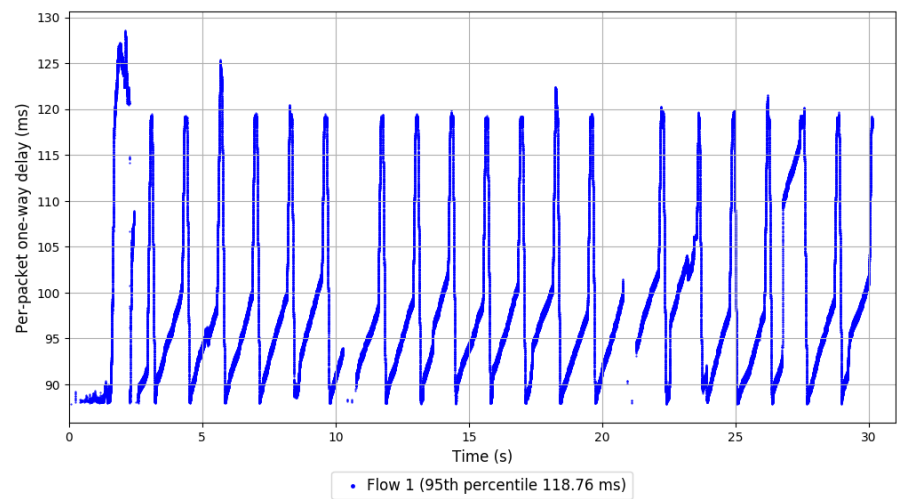
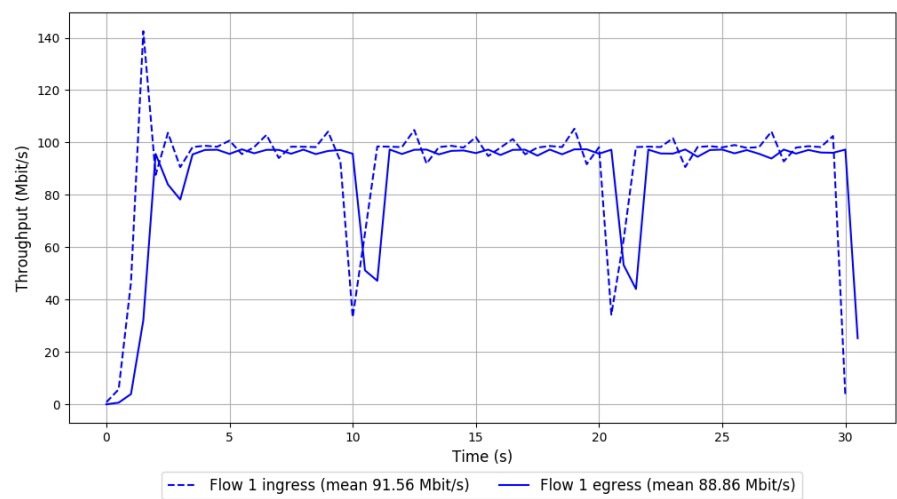


Run 2: Statistics of TCP BBR

Start at: 2018-08-27 21:06:18
End at: 2018-08-27 21:06:48
Local clock offset: 2.798 ms
Remote clock offset: 13.833 ms

Below is generated by plot.py at 2018-08-27 23:56:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.86 Mbit/s
95th percentile per-packet one-way delay: 118.763 ms
Loss rate: 2.86%
-- Flow 1:
Average throughput: 88.86 Mbit/s
95th percentile per-packet one-way delay: 118.763 ms
Loss rate: 2.86%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-08-27 21:25:52

End at: 2018-08-27 21:26:22

Local clock offset: 1.757 ms

Remote clock offset: 13.953 ms

Below is generated by plot.py at 2018-08-27 23:56:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.87 Mbit/s

95th percentile per-packet one-way delay: 121.444 ms

Loss rate: 3.28%

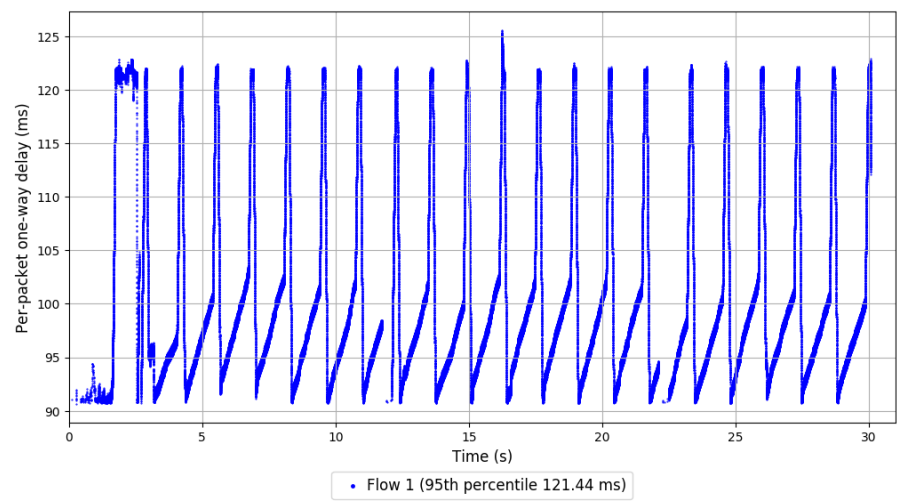
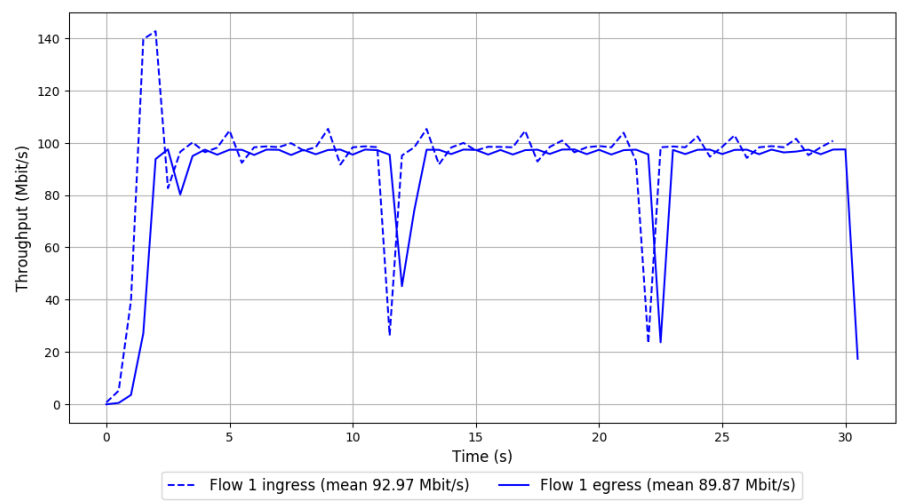
-- Flow 1:

Average throughput: 89.87 Mbit/s

95th percentile per-packet one-way delay: 121.444 ms

Loss rate: 3.28%

Run 3: Report of TCP BBR — Data Link

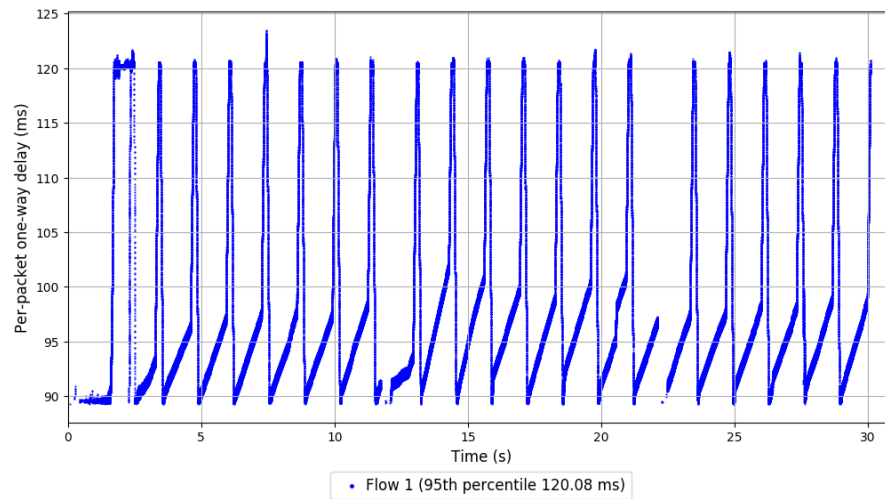
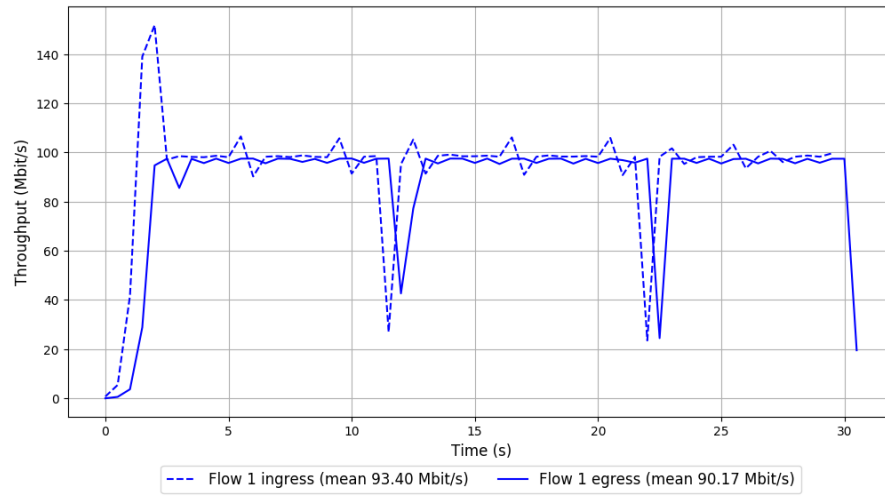


Run 4: Statistics of TCP BBR

Start at: 2018-08-27 21:45:29
End at: 2018-08-27 21:45:59
Local clock offset: 1.648 ms
Remote clock offset: 13.931 ms

Below is generated by plot.py at 2018-08-27 23:56:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.17 Mbit/s
95th percentile per-packet one-way delay: 120.077 ms
Loss rate: 3.36%
-- Flow 1:
Average throughput: 90.17 Mbit/s
95th percentile per-packet one-way delay: 120.077 ms
Loss rate: 3.36%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-08-27 22:05:03

End at: 2018-08-27 22:05:33

Local clock offset: 0.736 ms

Remote clock offset: 14.615 ms

Below is generated by plot.py at 2018-08-27 23:56:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.87 Mbit/s

95th percentile per-packet one-way delay: 118.036 ms

Loss rate: 2.84%

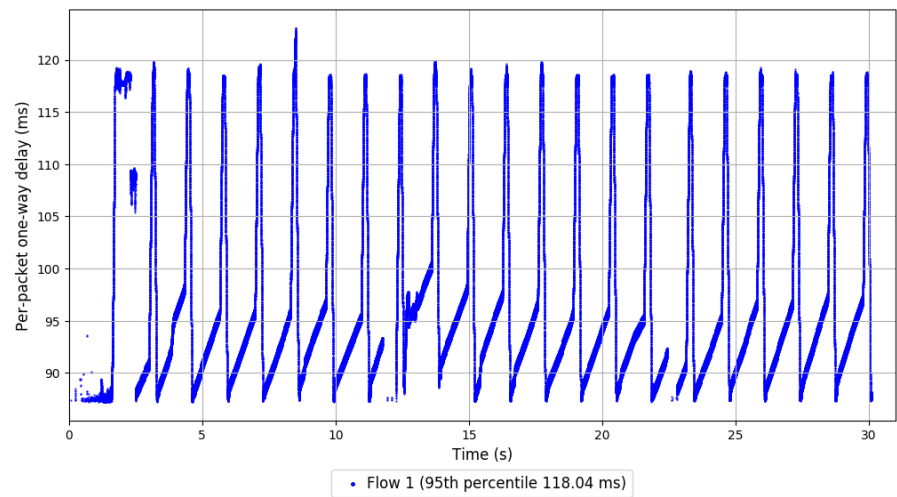
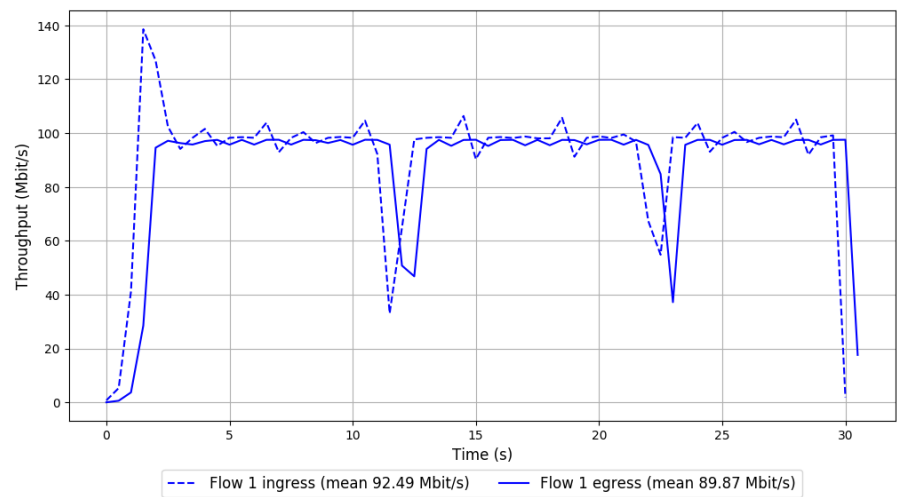
-- Flow 1:

Average throughput: 89.87 Mbit/s

95th percentile per-packet one-way delay: 118.036 ms

Loss rate: 2.84%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-08-27 22:24:38

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

Local clock offset: 4.285 ms

Remote clock offset: 14.046 ms

Below is generated by plot.py at 2018-08-27 23:56:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.84 Mbit/s

95th percentile per-packet one-way delay: 116.939 ms

Loss rate: 2.85%

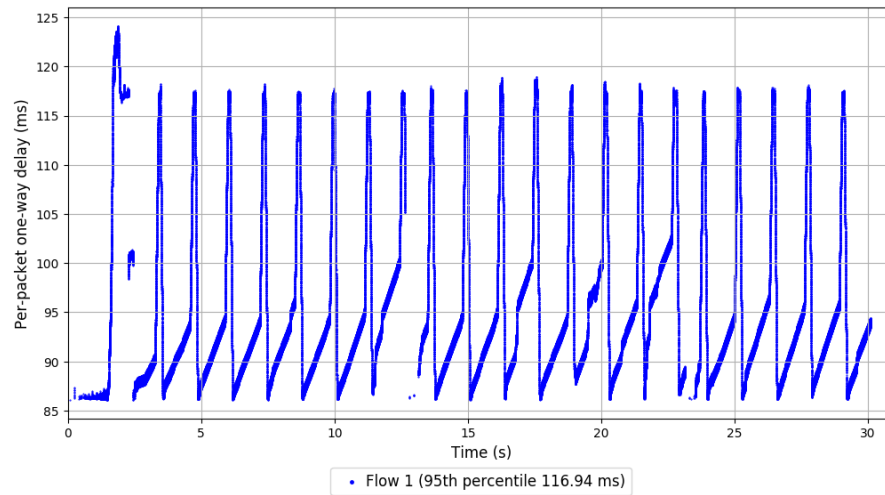
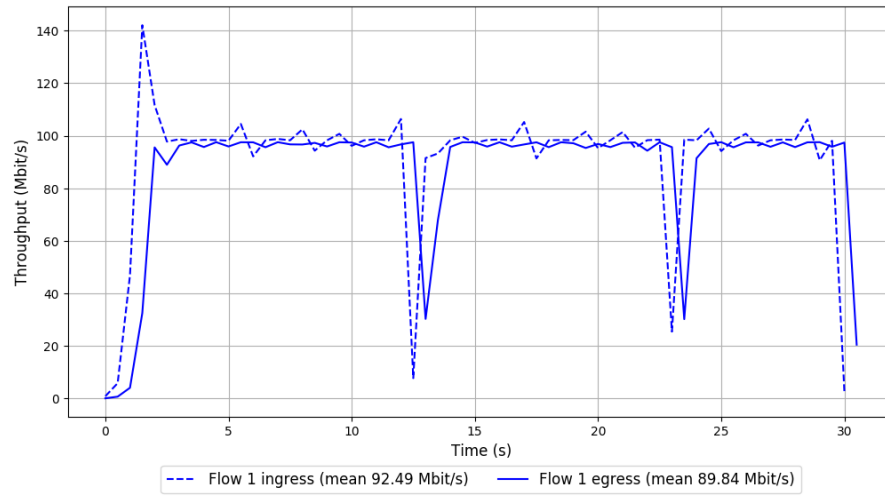
-- Flow 1:

Average throughput: 89.84 Mbit/s

95th percentile per-packet one-way delay: 116.939 ms

Loss rate: 2.85%

Run 6: Report of TCP BBR — Data Link

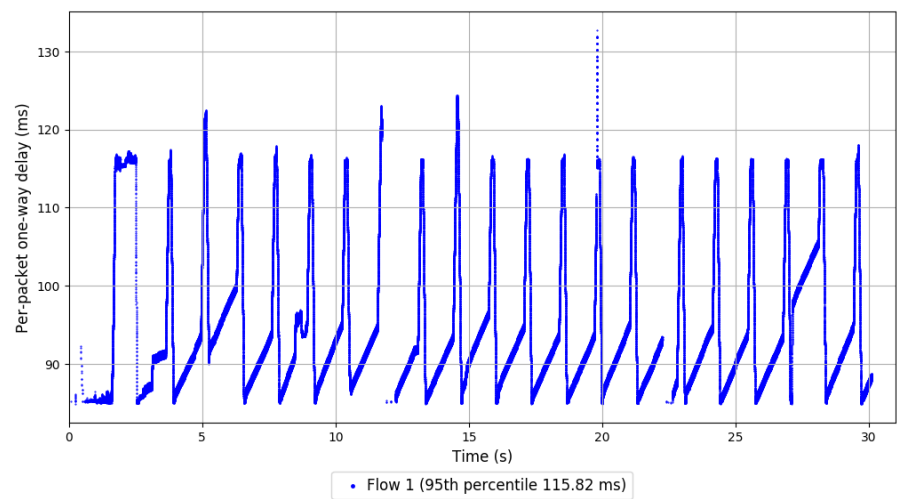
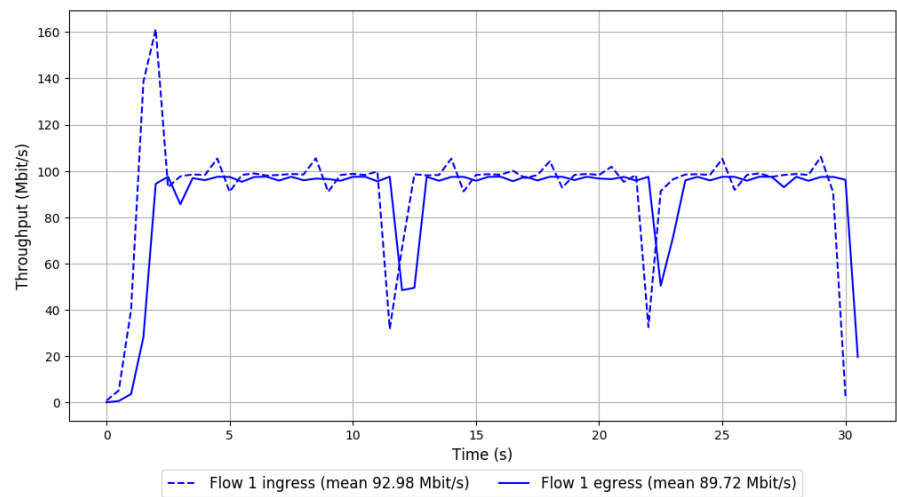


Run 7: Statistics of TCP BBR

Start at: 2018-08-27 22:44:20
End at: 2018-08-27 22:44:50
Local clock offset: 1.475 ms
Remote clock offset: 14.395 ms

Below is generated by plot.py at 2018-08-27 23:56:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.72 Mbit/s
95th percentile per-packet one-way delay: 115.820 ms
Loss rate: 3.50%
-- Flow 1:
Average throughput: 89.72 Mbit/s
95th percentile per-packet one-way delay: 115.820 ms
Loss rate: 3.50%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-08-27 23:03:55

End at: 2018-08-27 23:04:25

Local clock offset: 0.3 ms

Remote clock offset: 13.411 ms

Below is generated by plot.py at 2018-08-27 23:56:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.88 Mbit/s

95th percentile per-packet one-way delay: 113.086 ms

Loss rate: 3.51%

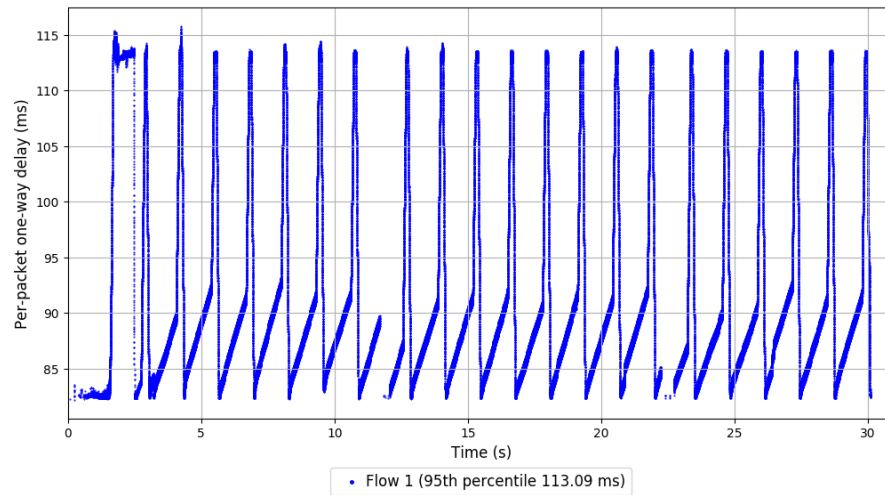
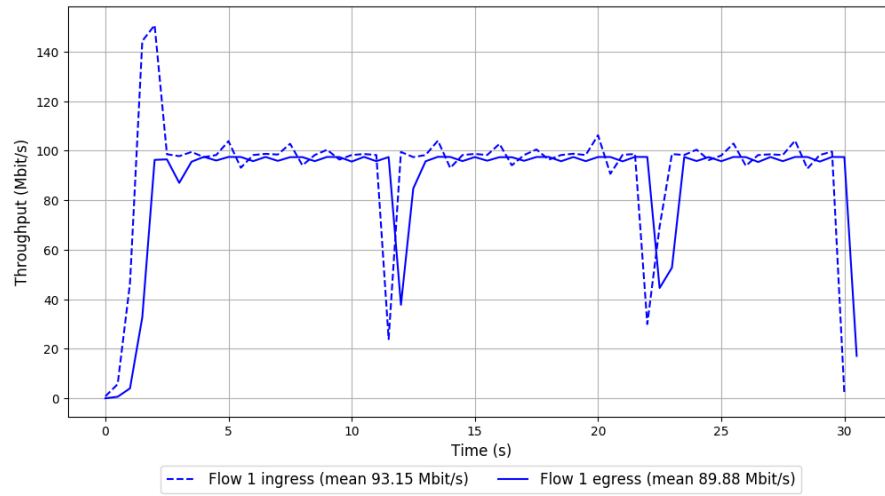
-- Flow 1:

Average throughput: 89.88 Mbit/s

95th percentile per-packet one-way delay: 113.086 ms

Loss rate: 3.51%

Run 8: Report of TCP BBR — Data Link

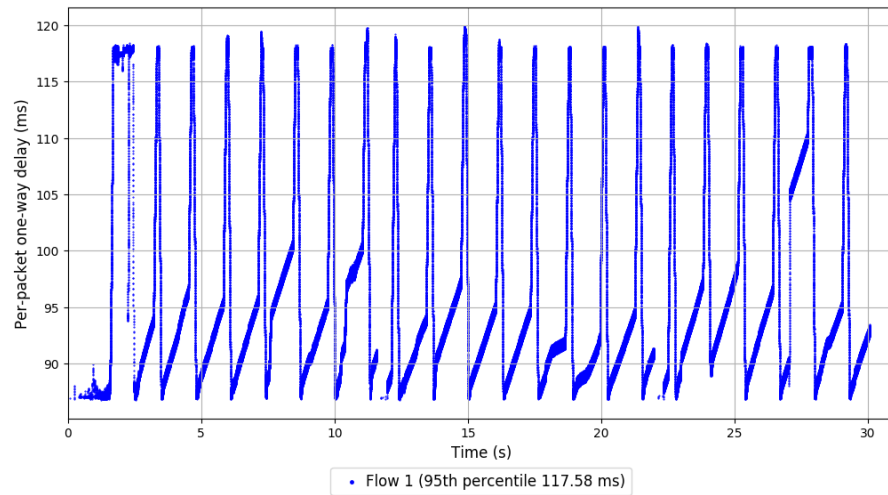
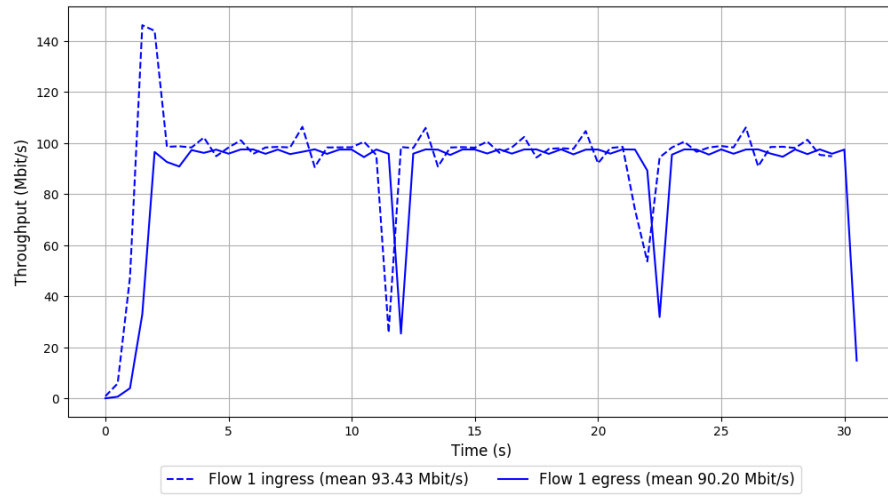


Run 9: Statistics of TCP BBR

Start at: 2018-08-27 23:23:27
End at: 2018-08-27 23:23:57
Local clock offset: -1.013 ms
Remote clock offset: 16.513 ms

Below is generated by plot.py at 2018-08-27 23:58:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.20 Mbit/s
95th percentile per-packet one-way delay: 117.584 ms
Loss rate: 3.44%
-- Flow 1:
Average throughput: 90.20 Mbit/s
95th percentile per-packet one-way delay: 117.584 ms
Loss rate: 3.44%

Run 9: Report of TCP BBR — Data Link

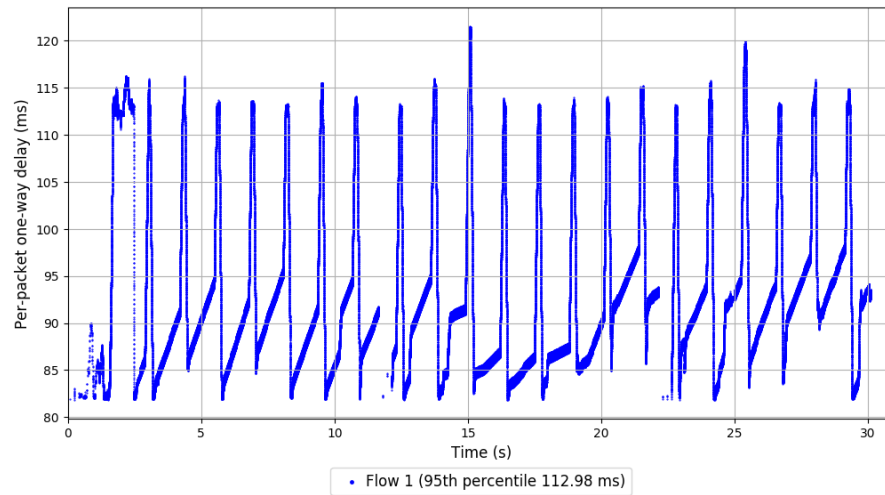
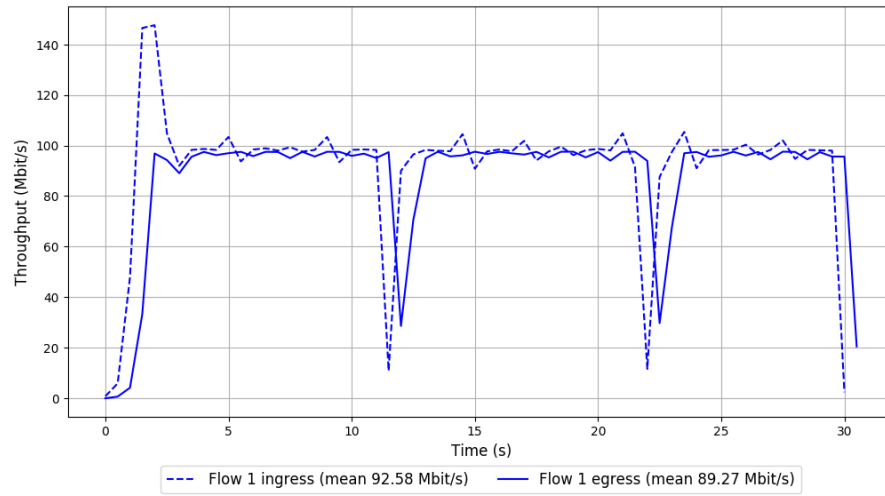


Run 10: Statistics of TCP BBR

Start at: 2018-08-27 23:43:07
End at: 2018-08-27 23:43:37
Local clock offset: -3.529 ms
Remote clock offset: 12.029 ms

Below is generated by plot.py at 2018-08-27 23:58:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.27 Mbit/s
95th percentile per-packet one-way delay: 112.980 ms
Loss rate: 3.53%
-- Flow 1:
Average throughput: 89.27 Mbit/s
95th percentile per-packet one-way delay: 112.980 ms
Loss rate: 3.53%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

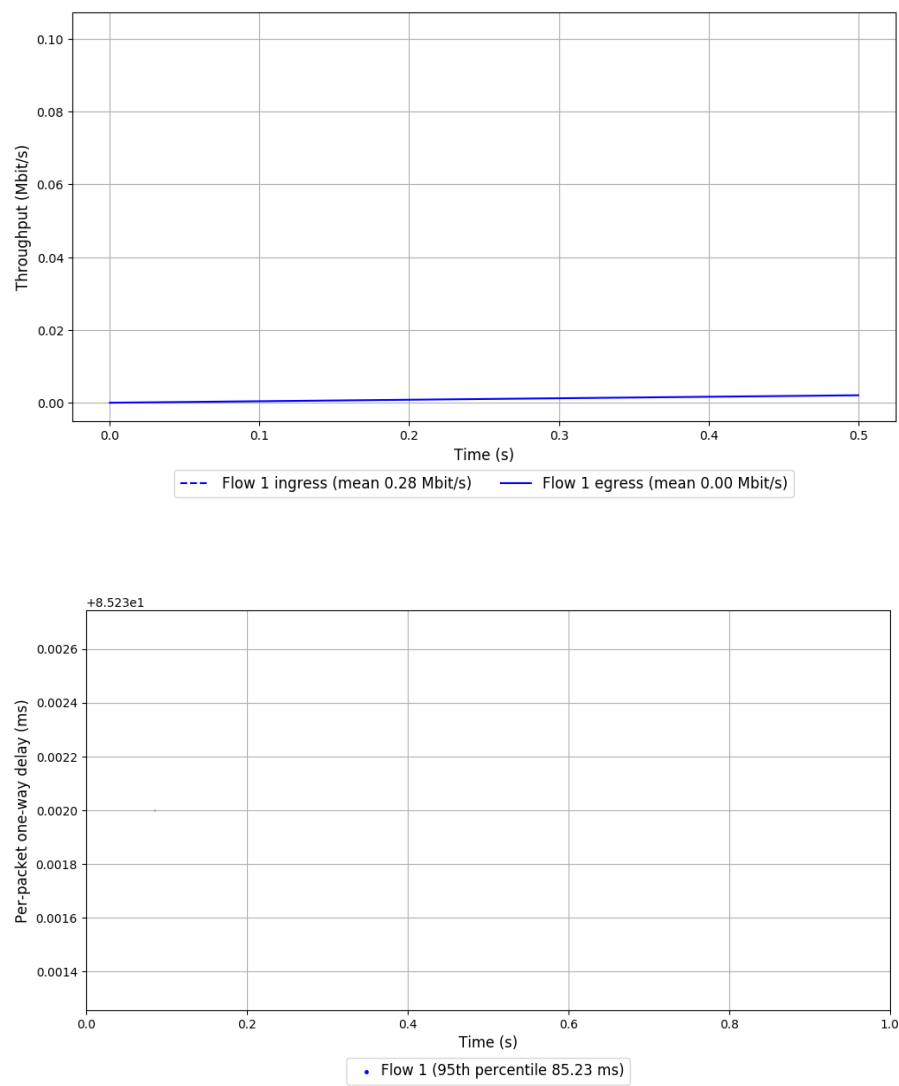
Start at: 2018-08-27 20:53:42

End at: 2018-08-27 20:54:12

Local clock offset: 3.612 ms

Remote clock offset: 4.969 ms

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

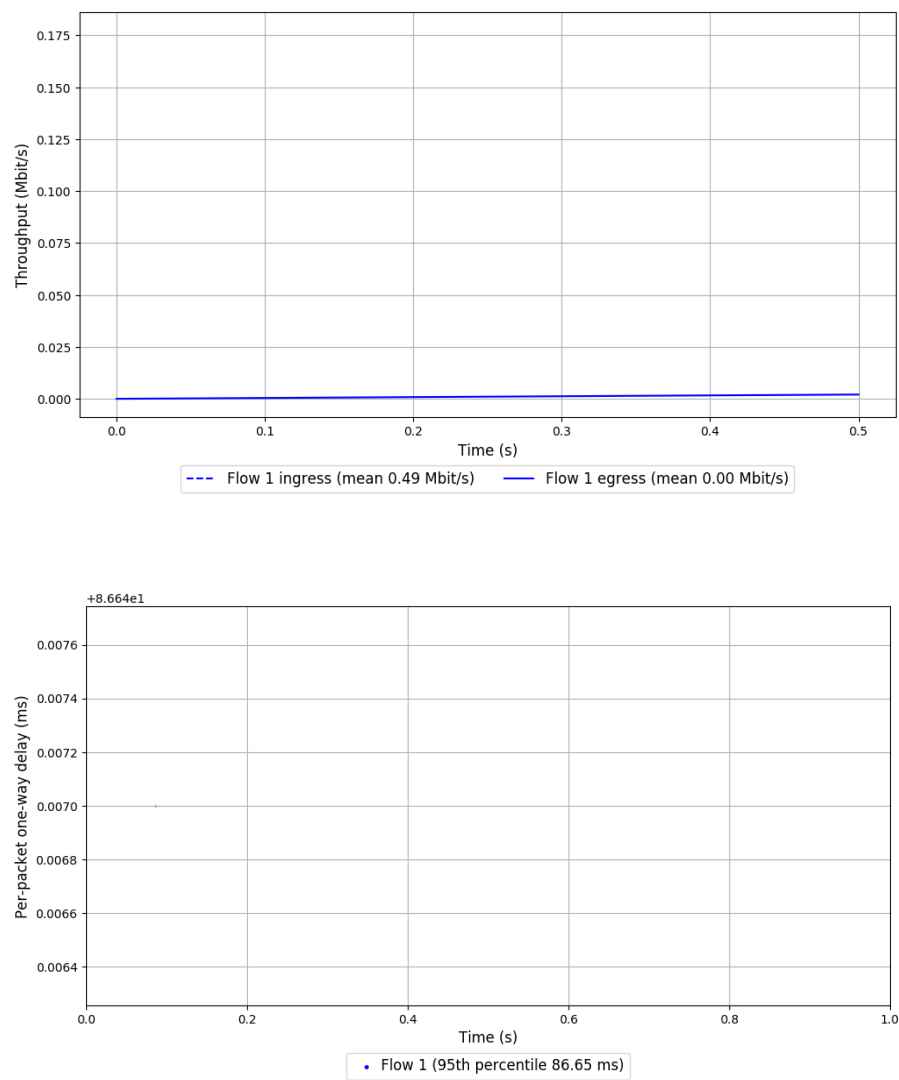
Start at: 2018-08-27 21:13:16

End at: 2018-08-27 21:13:46

Local clock offset: 2.775 ms

Remote clock offset: 14.34 ms

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

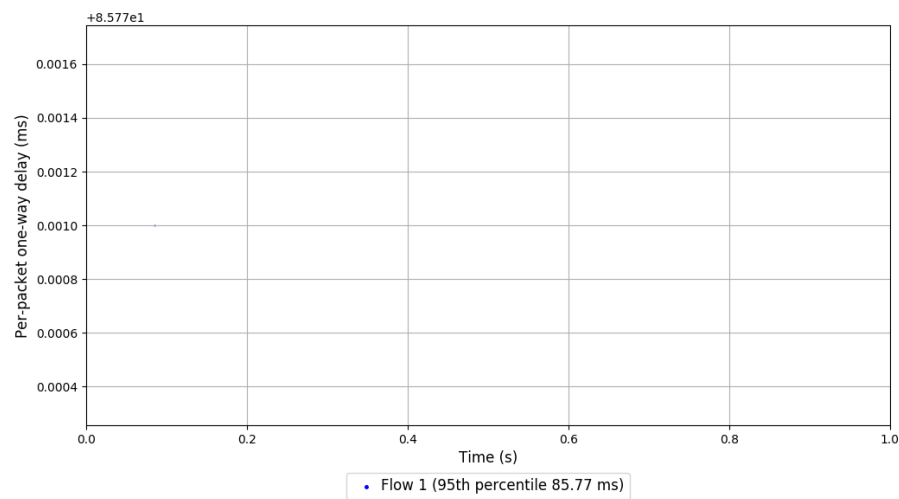
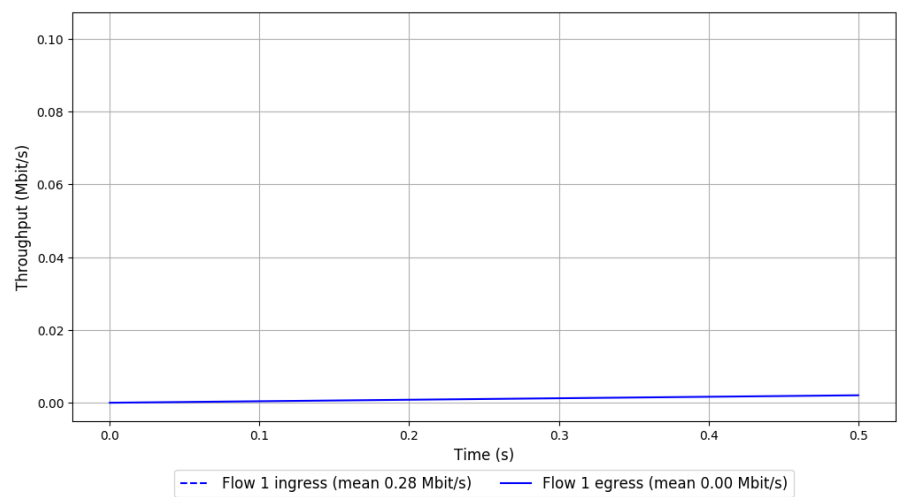
Start at: 2018-08-27 21:32:51

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

Local clock offset: 1.689 ms

Remote clock offset: 11.901 ms

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

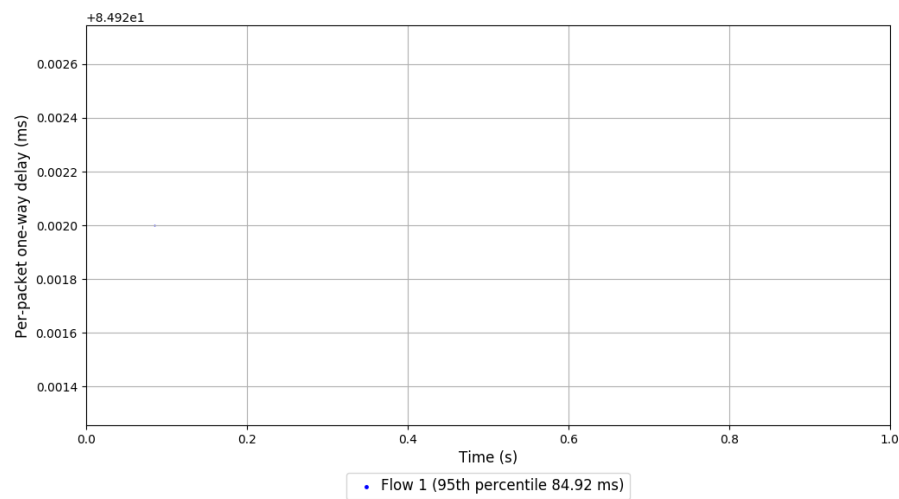
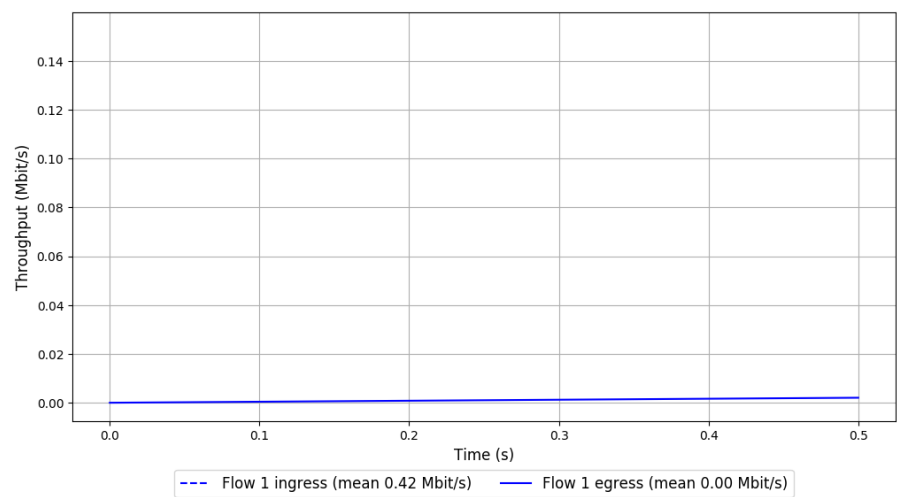
Start at: 2018-08-27 21:52:27

End at: 2018-08-27 21:52:58

Local clock offset: 0.603 ms

Remote clock offset: 14.918 ms

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

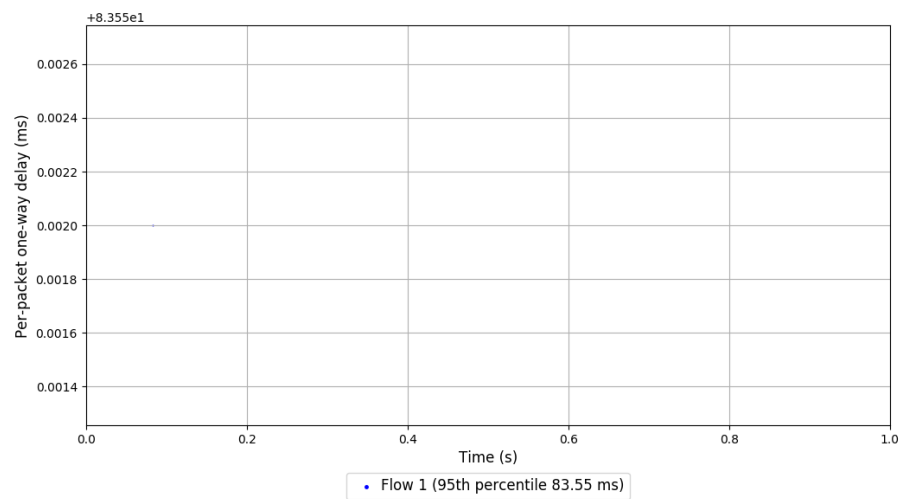
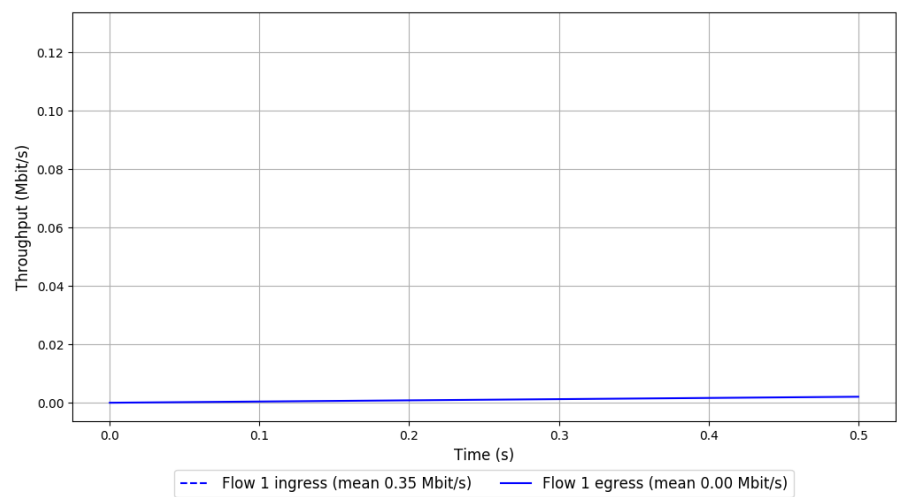
Start at: 2018-08-27 22:12:02

End at: 2018-08-27 22:12:32

Local clock offset: 2.915 ms

Remote clock offset: 13.423 ms

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

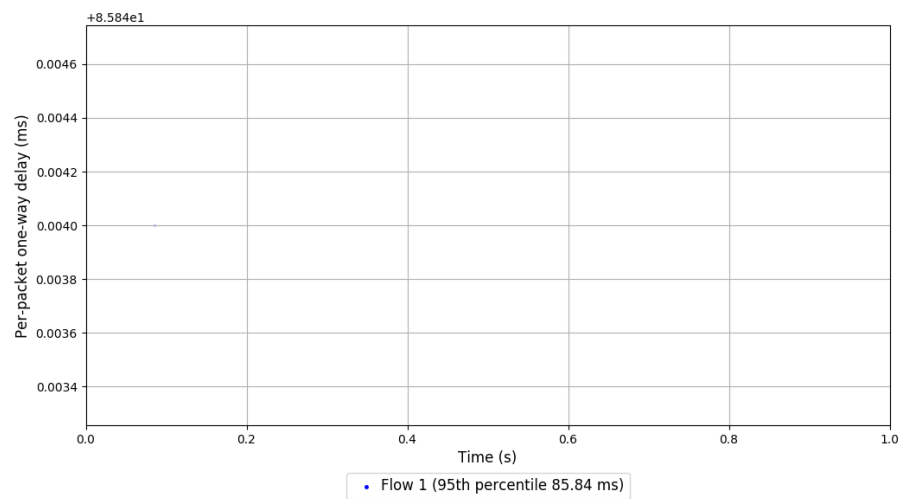
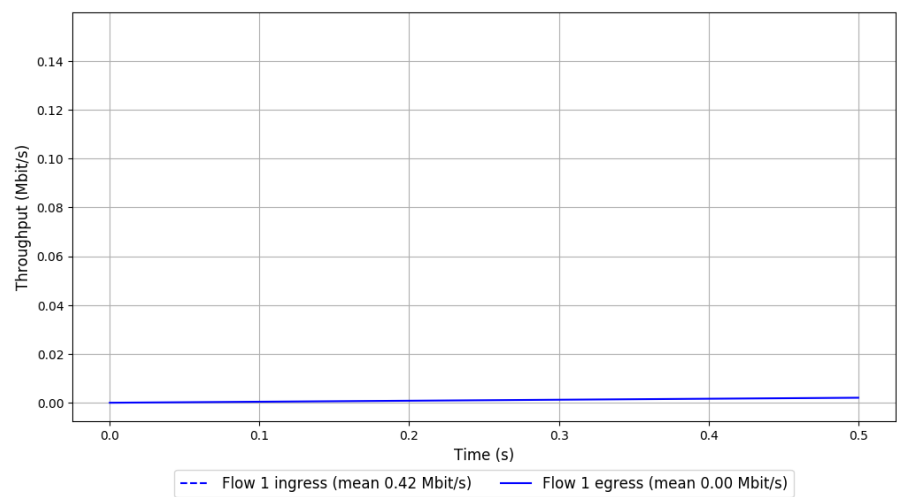
Start at: 2018-08-27 22:31:37

End at: 2018-08-27 22:32:07

Local clock offset: 3.931 ms

Remote clock offset: 13.187 ms

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

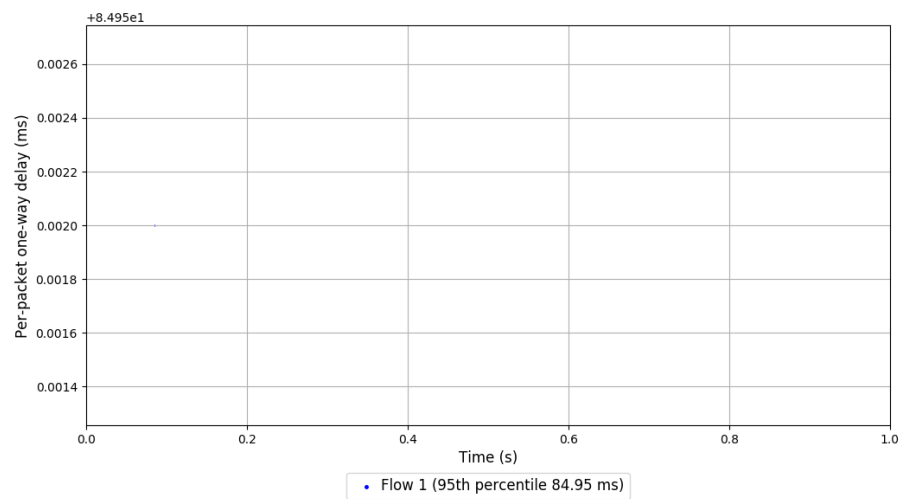
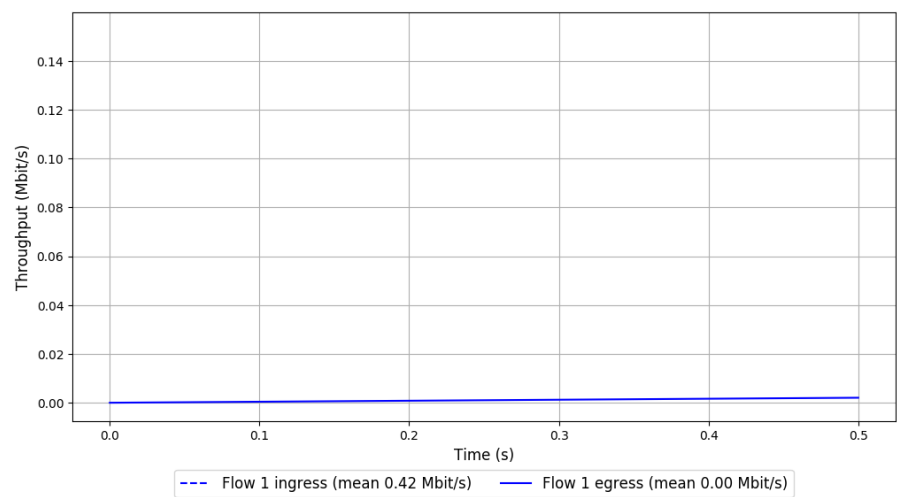
Start at: 2018-08-27 22:51:19

End at: 2018-08-27 22:51:49

Local clock offset: 0.84 ms

Remote clock offset: 15.141 ms

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

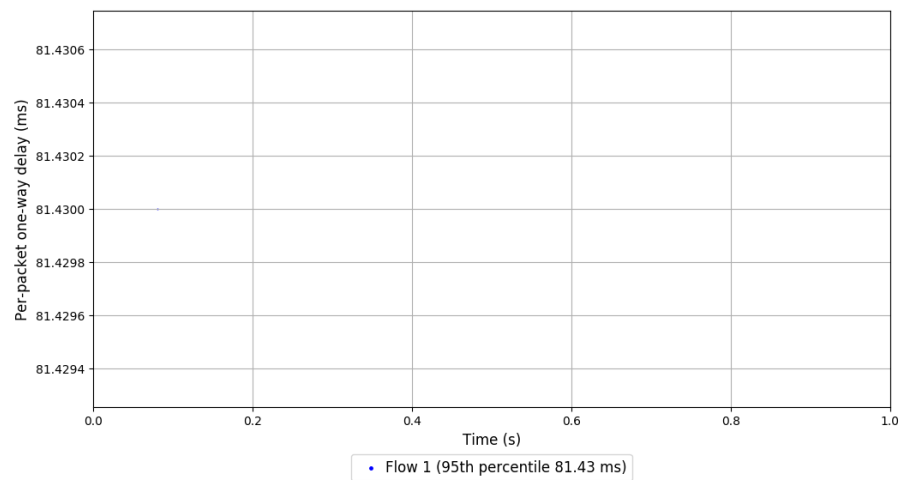
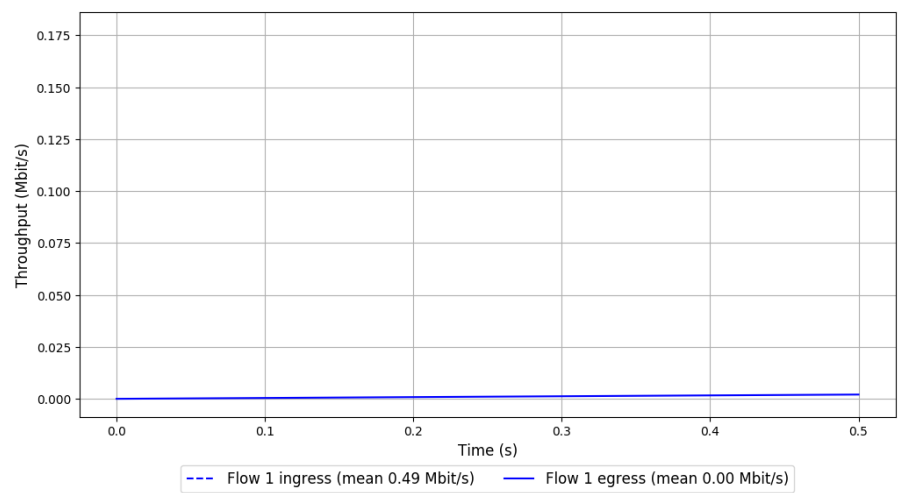
Start at: 2018-08-27 23:10:50

End at: 2018-08-27 23:11:20

Local clock offset: 0.053 ms

Remote clock offset: 11.992 ms

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

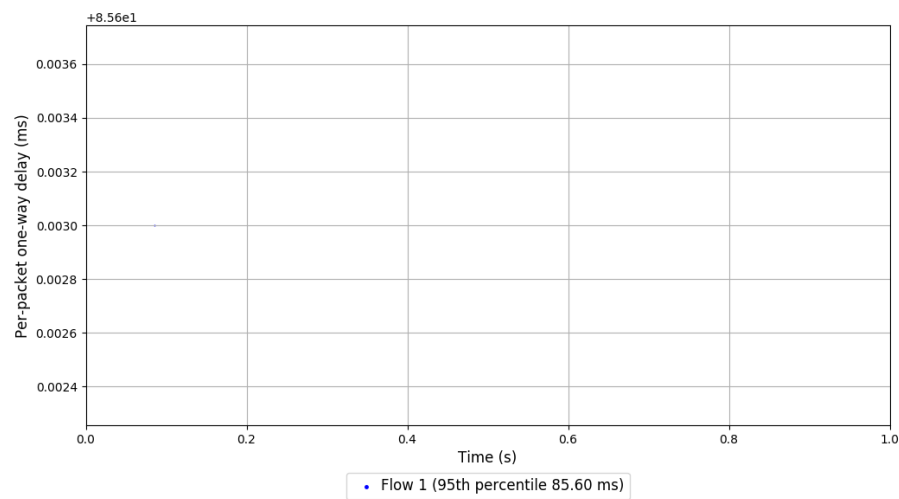
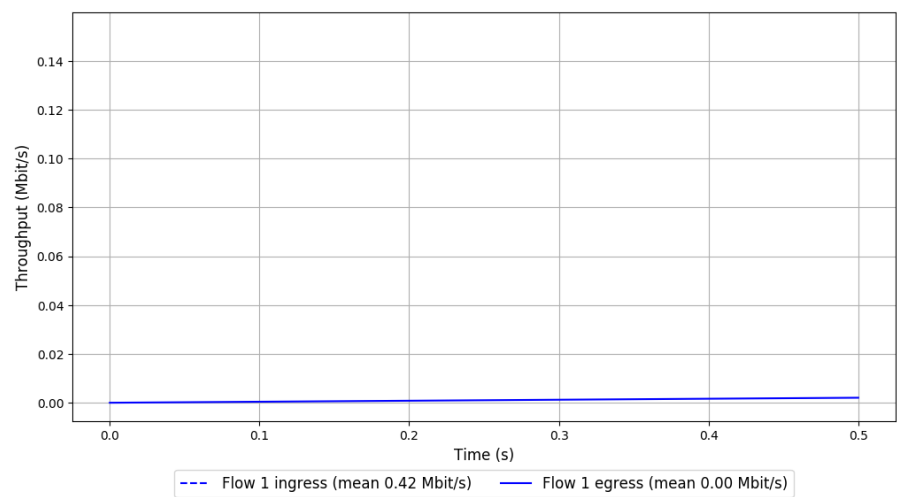
Start at: 2018-08-27 23:30:22

End at: 2018-08-27 23:30:52

Local clock offset: -0.388 ms

Remote clock offset: 16.054 ms

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

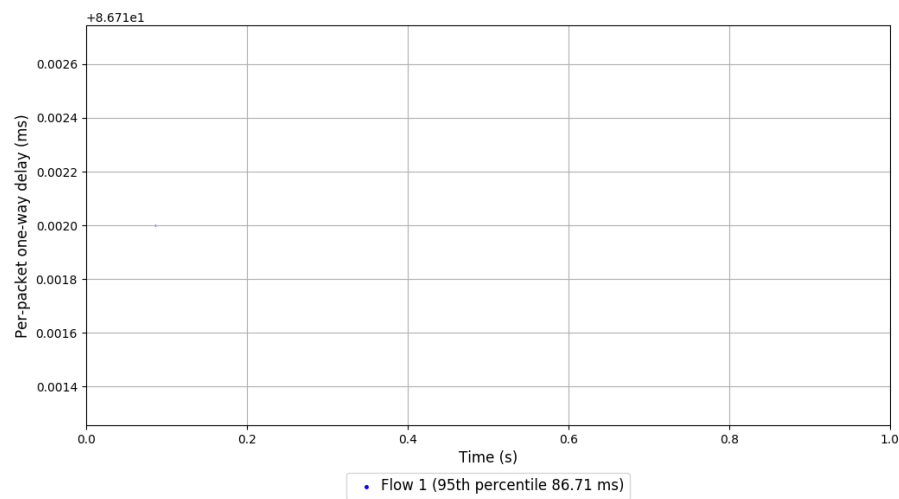
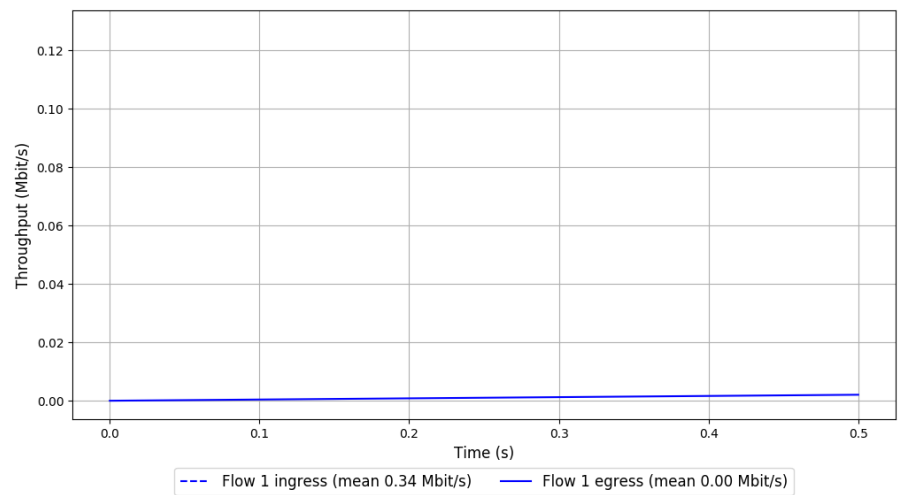
Start at: 2018-08-27 23:50:04

End at: 2018-08-27 23:50:34

Local clock offset: -4.158 ms

Remote clock offset: 12.083 ms

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-08-27 20:45:33

End at: 2018-08-27 20:46:03

Local clock offset: 3.872 ms

Remote clock offset: 3.448 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.89 Mbit/s

95th percentile per-packet one-way delay: 111.804 ms

Loss rate: 0.44%

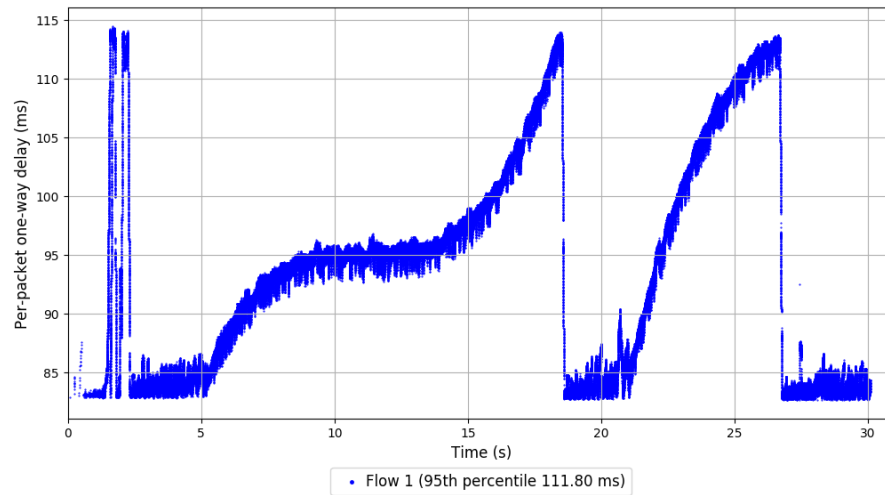
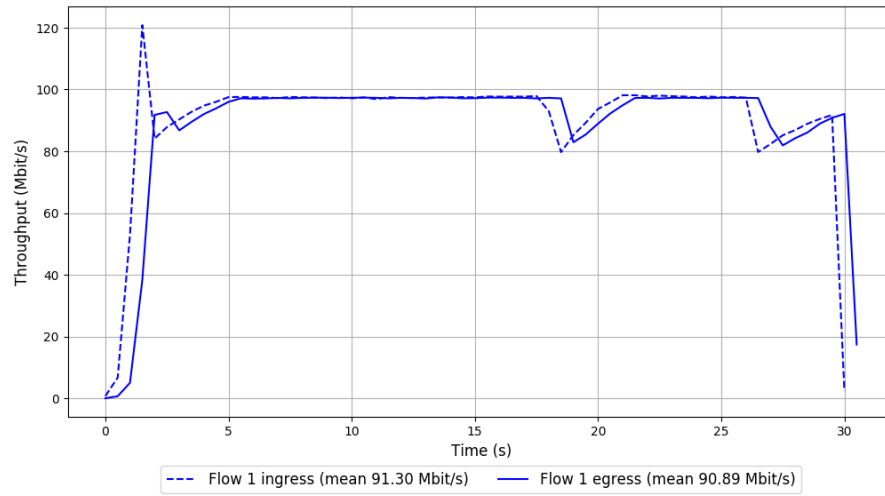
-- Flow 1:

Average throughput: 90.89 Mbit/s

95th percentile per-packet one-way delay: 111.804 ms

Loss rate: 0.44%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-08-27 21:05:07

End at: 2018-08-27 21:05:37

Local clock offset: 3.795 ms

Remote clock offset: 7.722 ms

Below is generated by plot.py at 2018-08-27 23:58:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.14 Mbit/s

95th percentile per-packet one-way delay: 103.972 ms

Loss rate: 0.46%

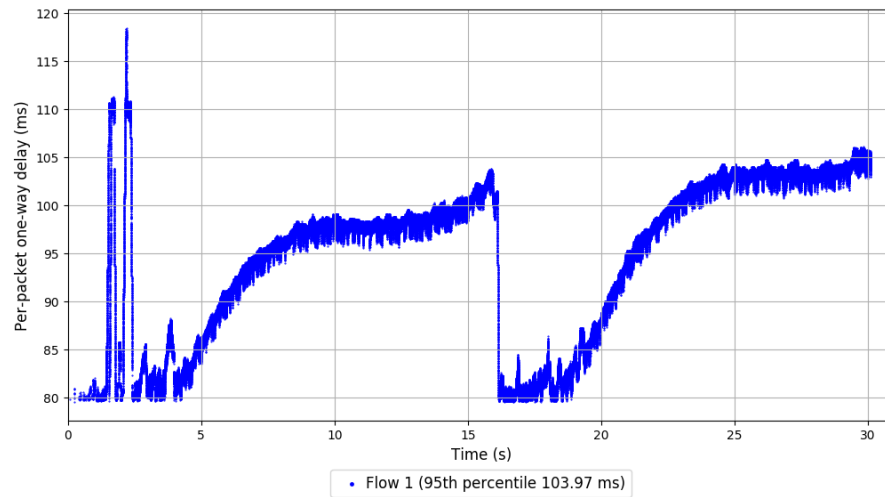
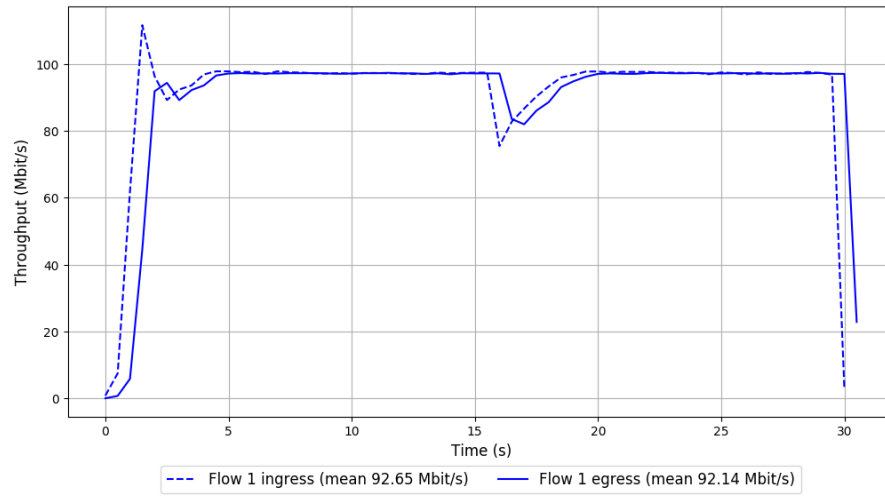
-- Flow 1:

Average throughput: 92.14 Mbit/s

95th percentile per-packet one-way delay: 103.972 ms

Loss rate: 0.46%

Run 2: Report of TCP Cubic — Data Link

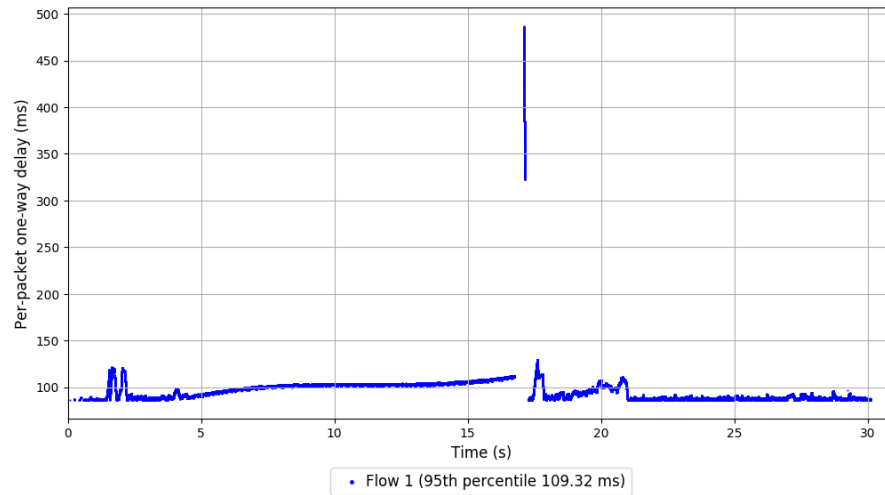
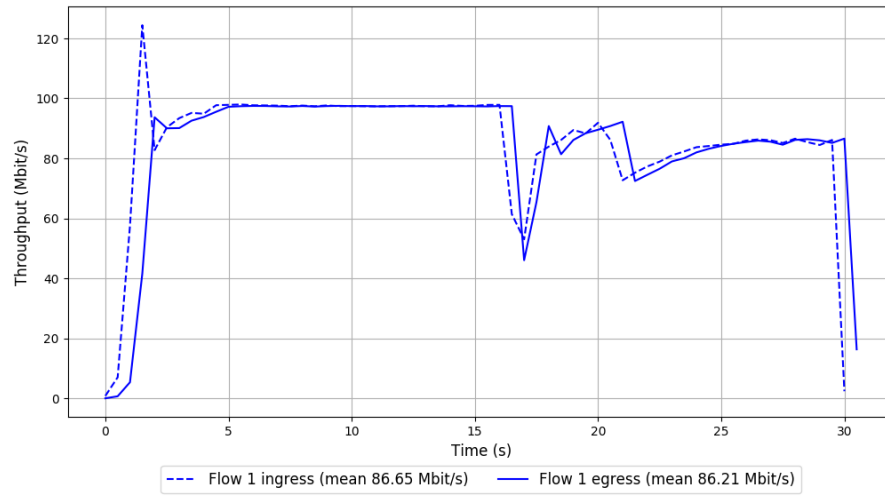


Run 3: Statistics of TCP Cubic

Start at: 2018-08-27 21:24:41
End at: 2018-08-27 21:25:11
Local clock offset: 1.746 ms
Remote clock offset: 15.009 ms

Below is generated by plot.py at 2018-08-27 23:58:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.21 Mbit/s
95th percentile per-packet one-way delay: 109.323 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 86.21 Mbit/s
95th percentile per-packet one-way delay: 109.323 ms
Loss rate: 0.51%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-08-27 21:44:18

End at: 2018-08-27 21:44:48

Local clock offset: 1.735 ms

Remote clock offset: 9.891 ms

Below is generated by plot.py at 2018-08-27 23:58:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.65 Mbit/s

95th percentile per-packet one-way delay: 105.050 ms

Loss rate: 0.49%

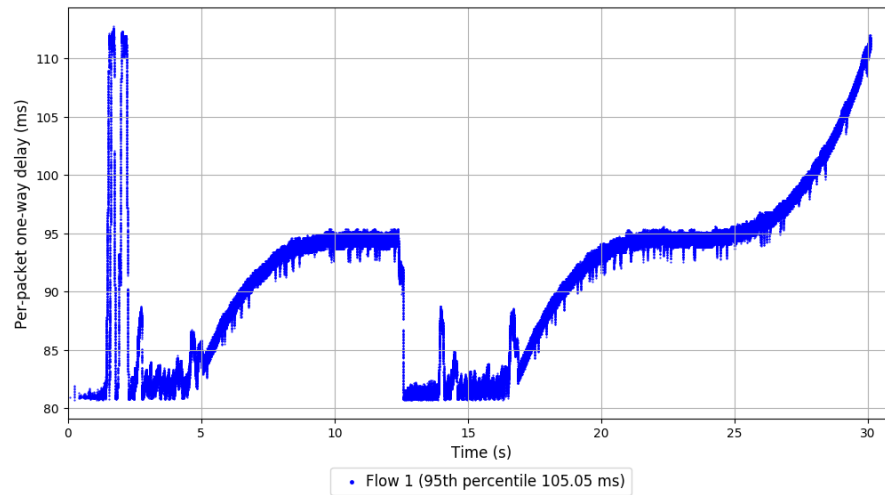
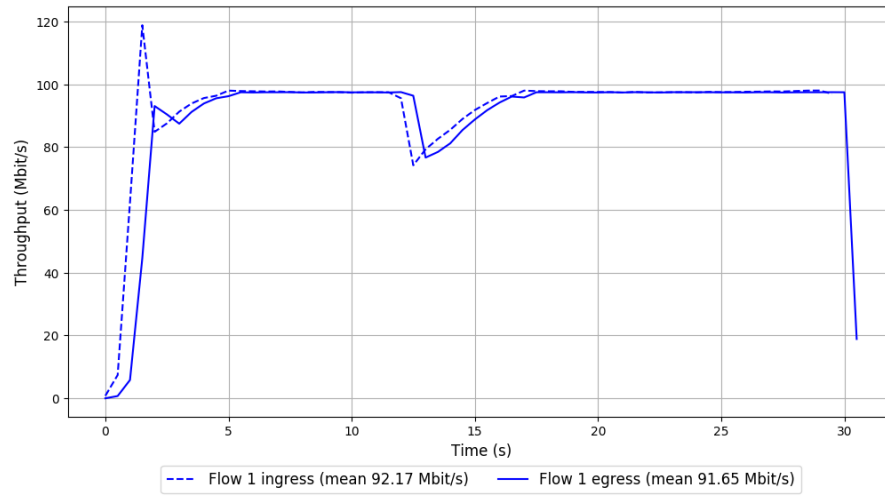
-- Flow 1:

Average throughput: 91.65 Mbit/s

95th percentile per-packet one-way delay: 105.050 ms

Loss rate: 0.49%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-08-27 22:03:52

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

Local clock offset: 0.327 ms

Remote clock offset: 9.591 ms

Below is generated by plot.py at 2018-08-27 23:58:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.11 Mbit/s

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

Loss rate: 0.48%

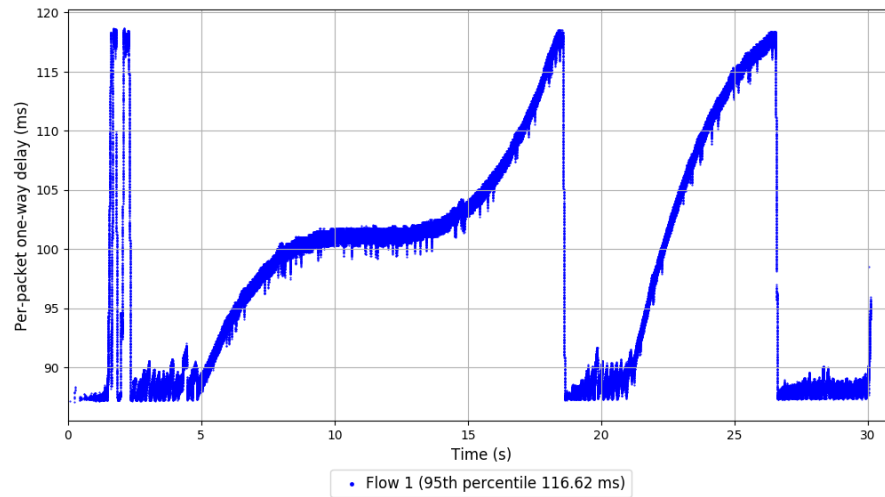
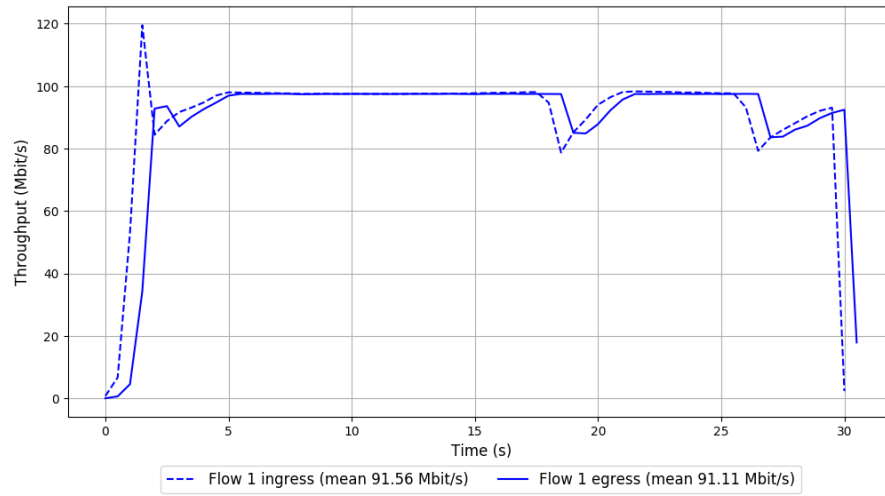
-- Flow 1:

Average throughput: 91.11 Mbit/s

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

Loss rate: 0.48%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

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

End at: 2018-08-27 22:23:57

Local clock offset: 4.187 ms

Remote clock offset: 9.134 ms

Below is generated by plot.py at 2018-08-27 23:58:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.27 Mbit/s

95th percentile per-packet one-way delay: 109.984 ms

Loss rate: 0.44%

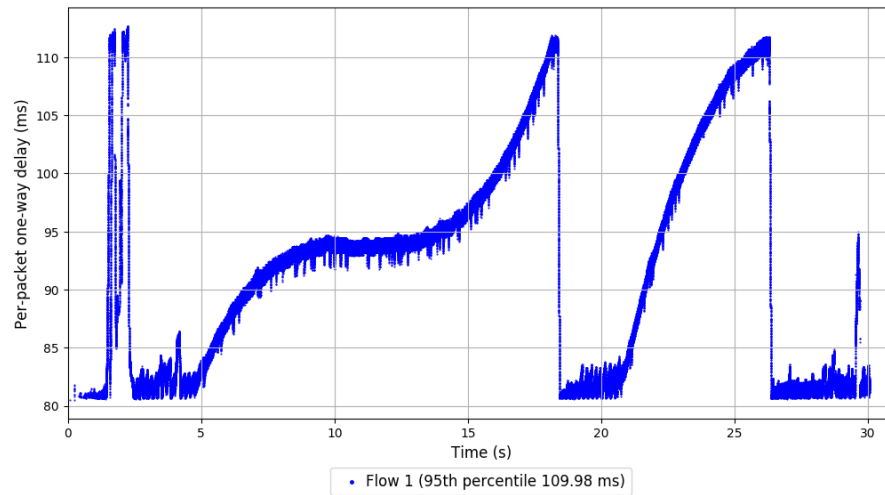
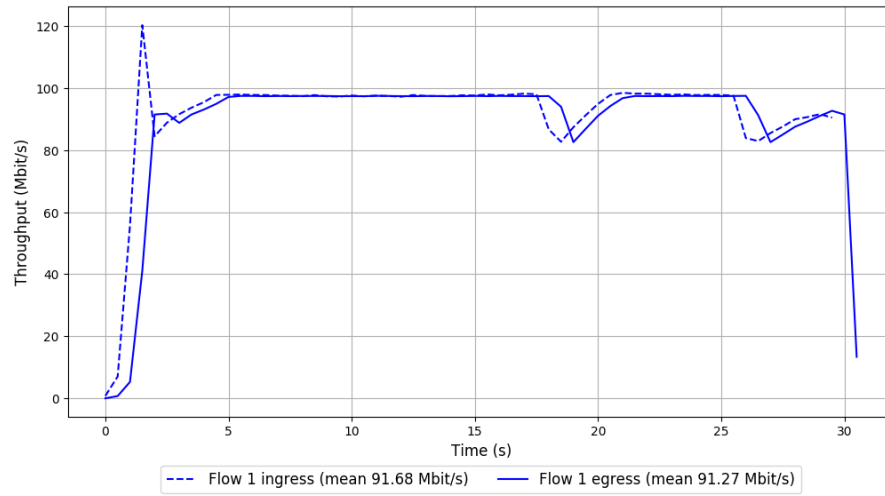
-- Flow 1:

Average throughput: 91.27 Mbit/s

95th percentile per-packet one-way delay: 109.984 ms

Loss rate: 0.44%

Run 6: Report of TCP Cubic — Data Link

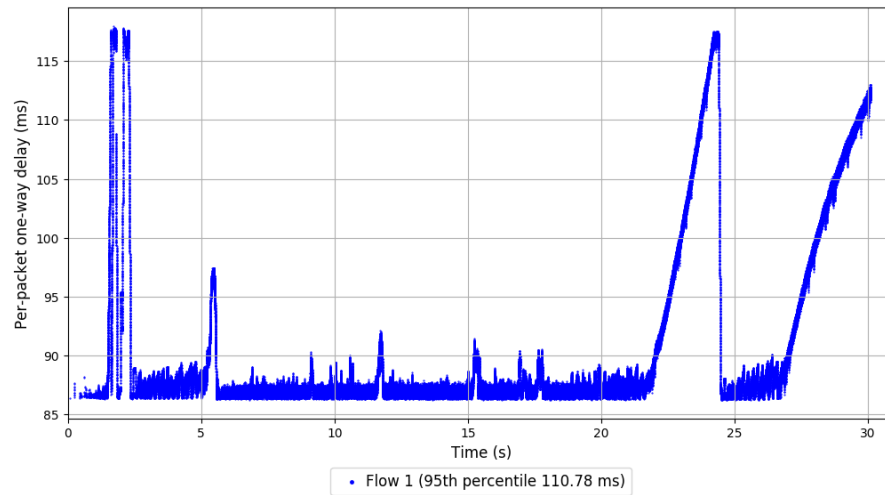
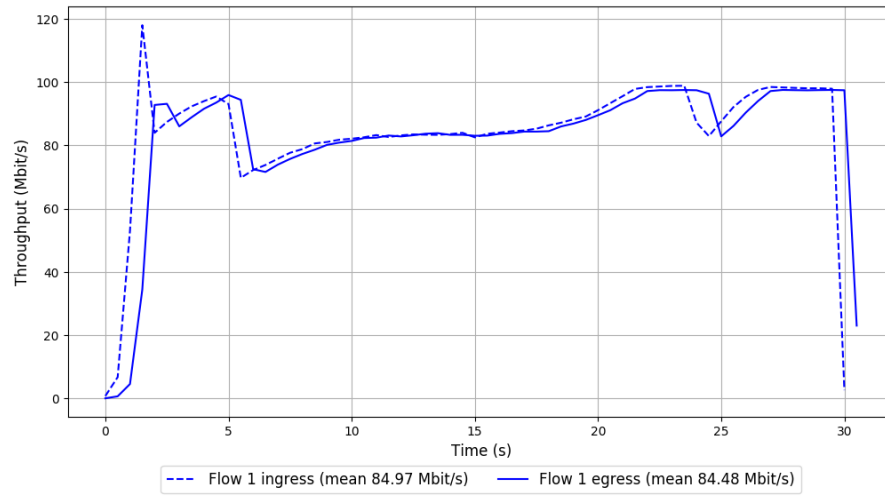


Run 7: Statistics of TCP Cubic

Start at: 2018-08-27 22:43:09
End at: 2018-08-27 22:43:39
Local clock offset: 1.654 ms
Remote clock offset: 10.323 ms

Below is generated by plot.py at 2018-08-27 23:58:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.48 Mbit/s
95th percentile per-packet one-way delay: 110.780 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 84.48 Mbit/s
95th percentile per-packet one-way delay: 110.780 ms
Loss rate: 0.51%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-08-27 23:02:44

End at: 2018-08-27 23:03:14

Local clock offset: 0.328 ms

Remote clock offset: 12.36 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.27 Mbit/s

95th percentile per-packet one-way delay: 111.093 ms

Loss rate: 0.44%

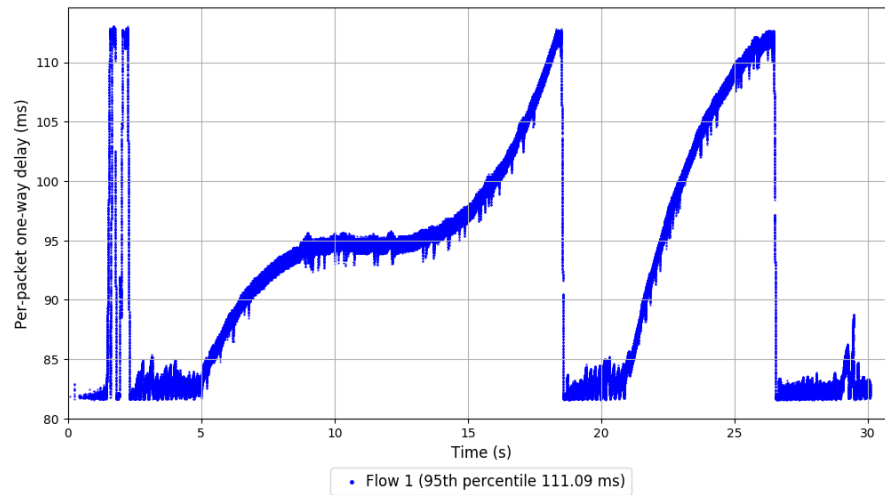
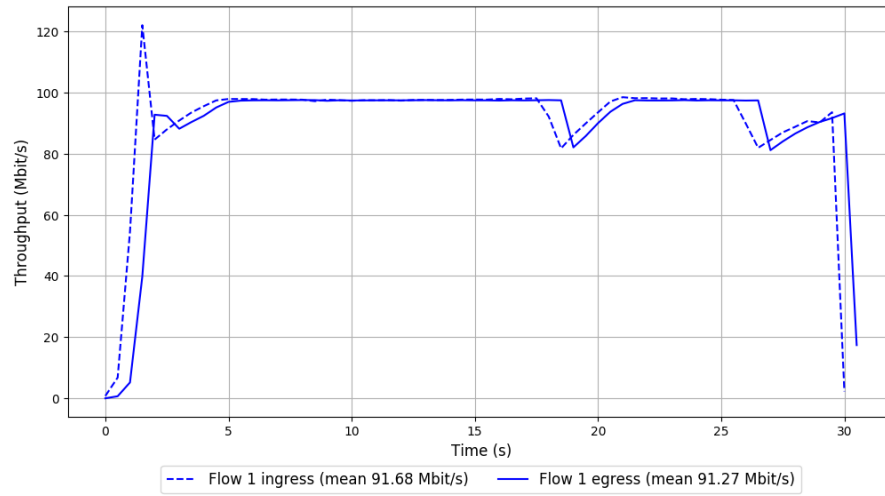
-- Flow 1:

Average throughput: 91.27 Mbit/s

95th percentile per-packet one-way delay: 111.093 ms

Loss rate: 0.44%

Run 8: Report of TCP Cubic — Data Link

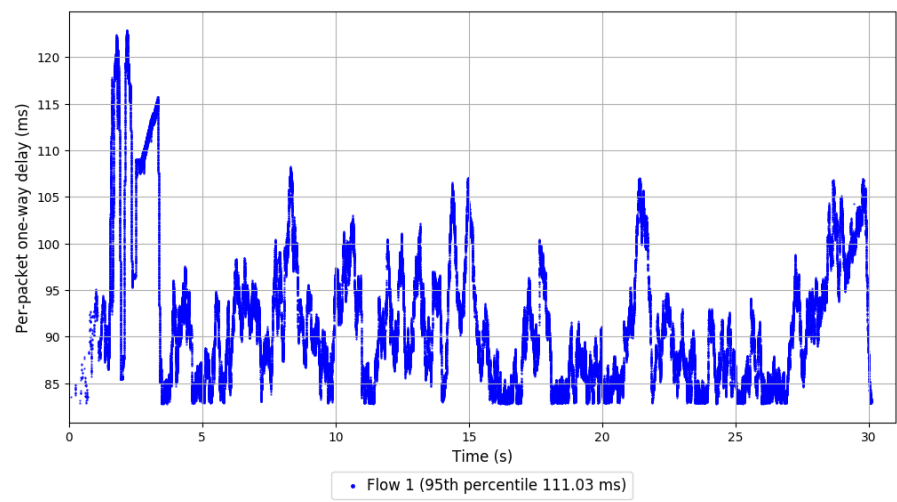
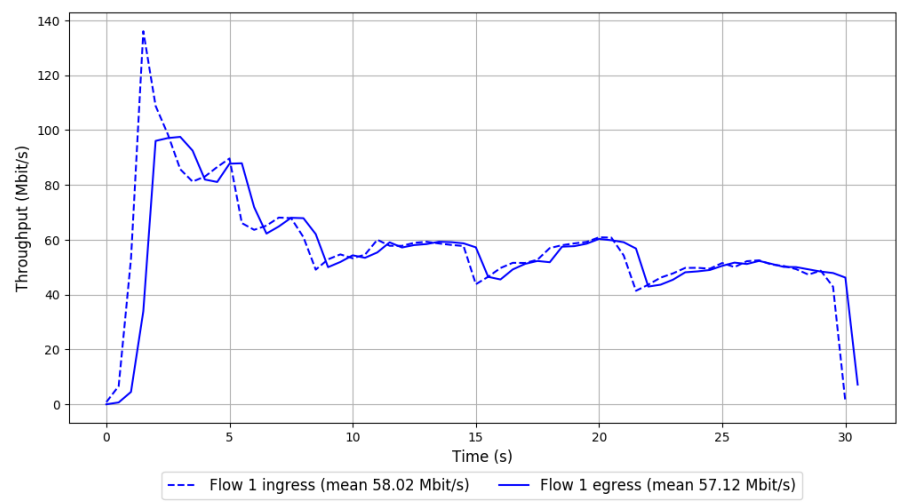


Run 9: Statistics of TCP Cubic

Start at: 2018-08-27 23:22:17
End at: 2018-08-27 23:22:47
Local clock offset: 0.545 ms
Remote clock offset: 15.498 ms

Below is generated by plot.py at 2018-08-27 23:59:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 57.12 Mbit/s
95th percentile per-packet one-way delay: 111.033 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 57.12 Mbit/s
95th percentile per-packet one-way delay: 111.033 ms
Loss rate: 1.55%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-08-27 23:41:57

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

Local clock offset: -2.532 ms

Remote clock offset: 11.002 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.18 Mbit/s

95th percentile per-packet one-way delay: 89.321 ms

Loss rate: 0.80%

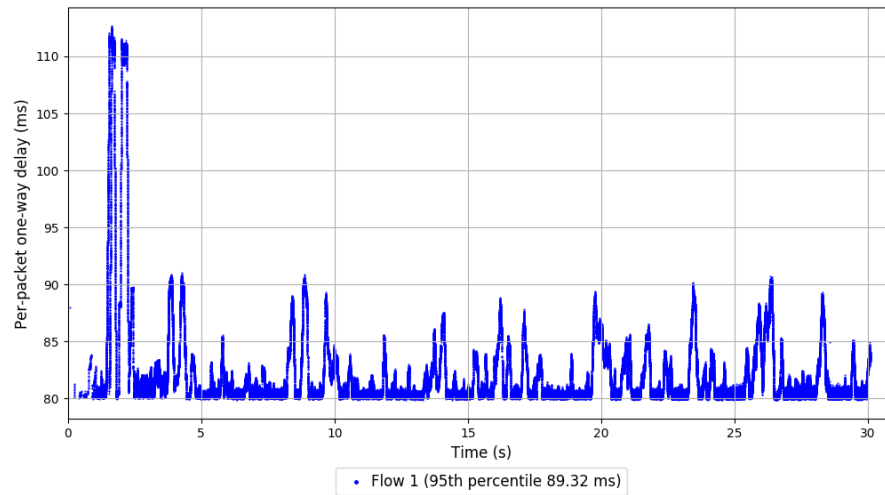
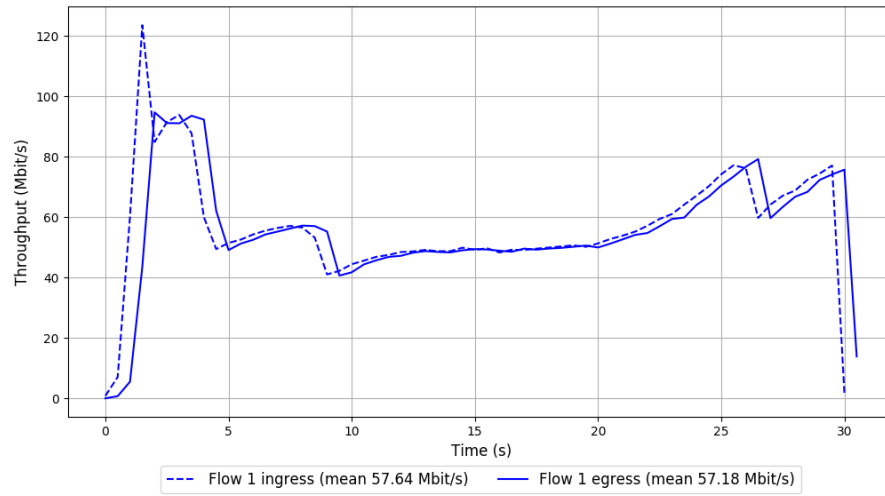
-- Flow 1:

Average throughput: 57.18 Mbit/s

95th percentile per-packet one-way delay: 89.321 ms

Loss rate: 0.80%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-08-27 20:39:51

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

Local clock offset: 5.634 ms

Remote clock offset: 3.933 ms

Below is generated by plot.py at 2018-08-27 23:59:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.51 Mbit/s

95th percentile per-packet one-way delay: 117.402 ms

Loss rate: 8.32%

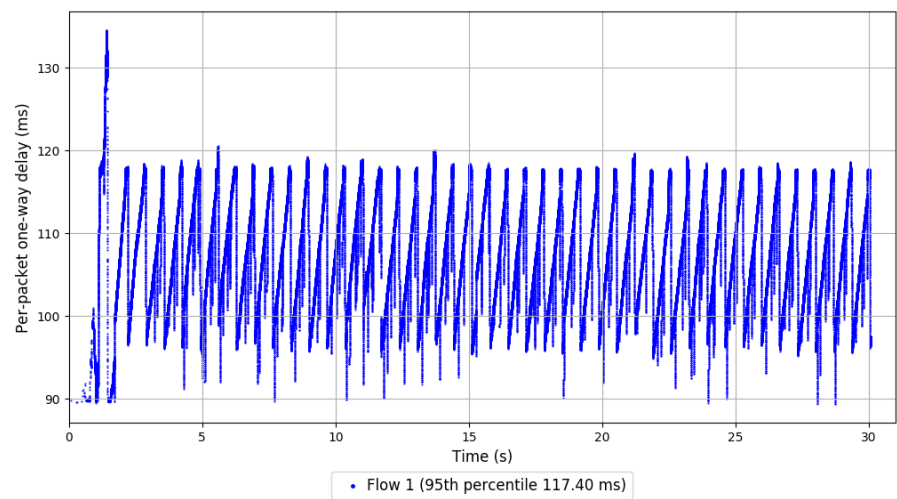
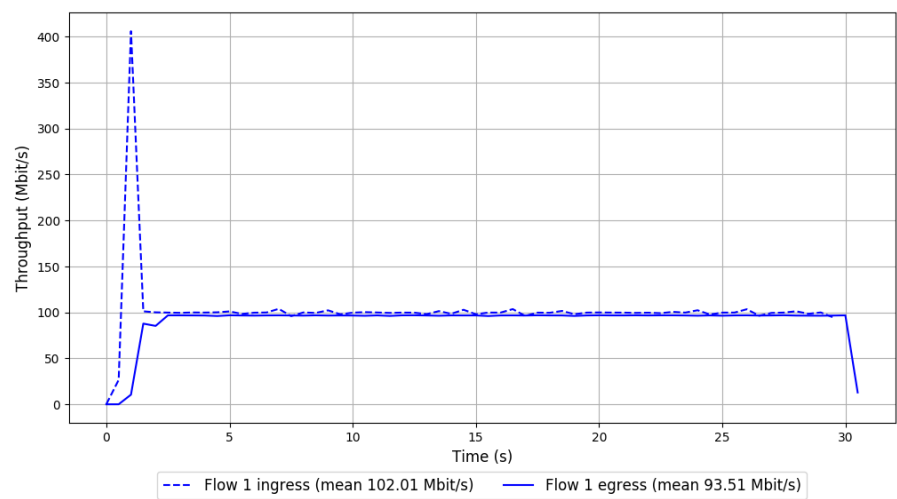
-- Flow 1:

Average throughput: 93.51 Mbit/s

95th percentile per-packet one-way delay: 117.402 ms

Loss rate: 8.32%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-08-27 20:59:25

End at: 2018-08-27 20:59:55

Local clock offset: 3.772 ms

Remote clock offset: 7.629 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.71 Mbit/s

95th percentile per-packet one-way delay: 110.934 ms

Loss rate: 7.51%

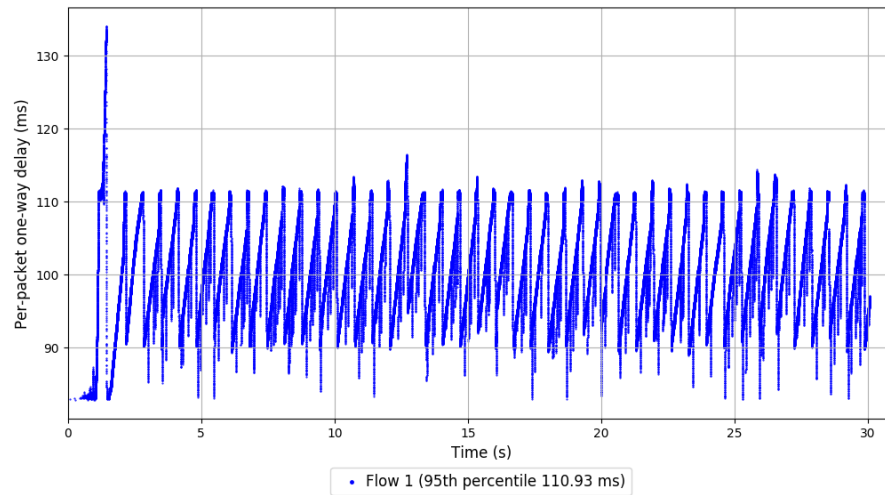
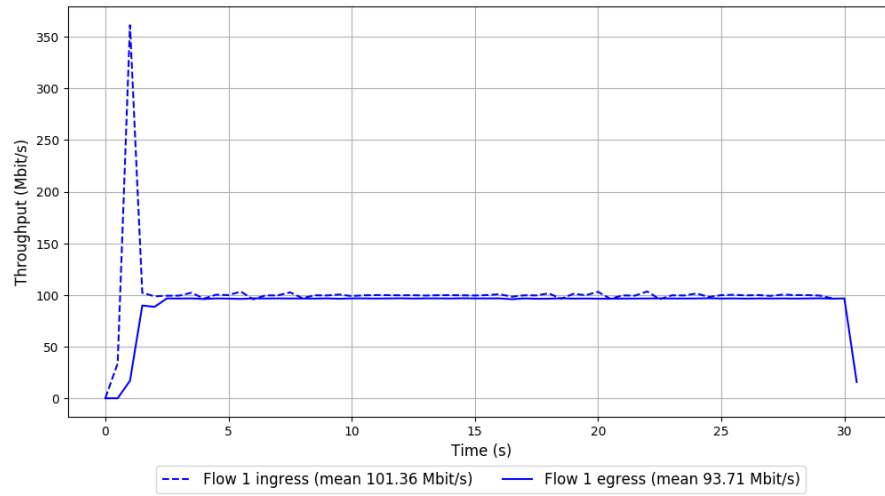
-- Flow 1:

Average throughput: 93.71 Mbit/s

95th percentile per-packet one-way delay: 110.934 ms

Loss rate: 7.51%

Run 2: Report of FillP — Data Link

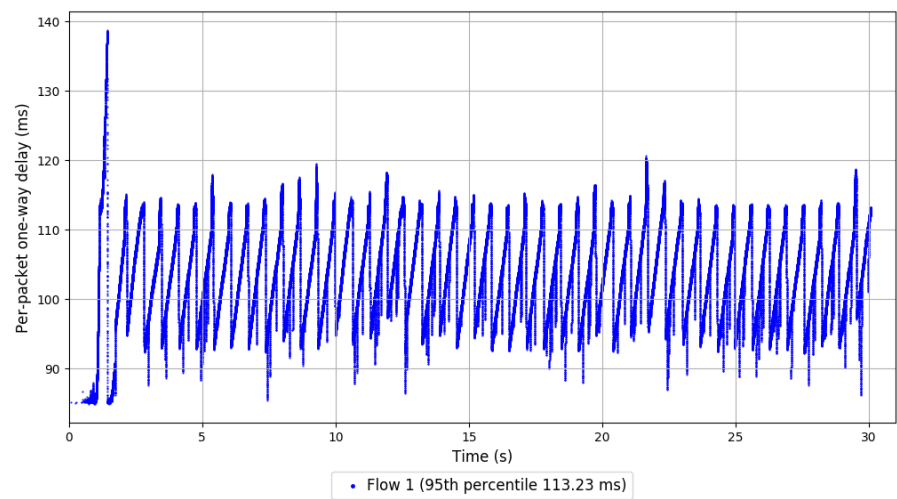
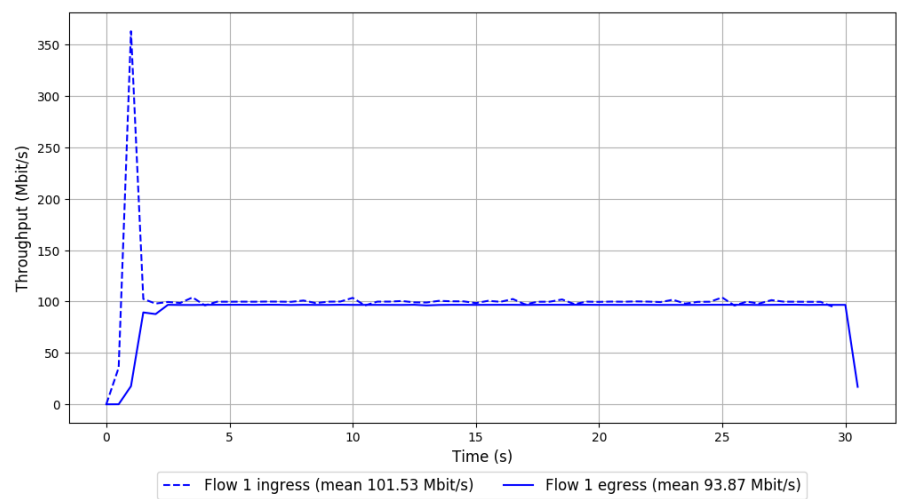


Run 3: Statistics of FillP

Start at: 2018-08-27 21:18:58
End at: 2018-08-27 21:19:28
Local clock offset: 2.538 ms
Remote clock offset: 13.561 ms

Below is generated by plot.py at 2018-08-27 23:59:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.87 Mbit/s
95th percentile per-packet one-way delay: 113.226 ms
Loss rate: 7.45%
-- Flow 1:
Average throughput: 93.87 Mbit/s
95th percentile per-packet one-way delay: 113.226 ms
Loss rate: 7.45%

Run 3: Report of FillP — Data Link

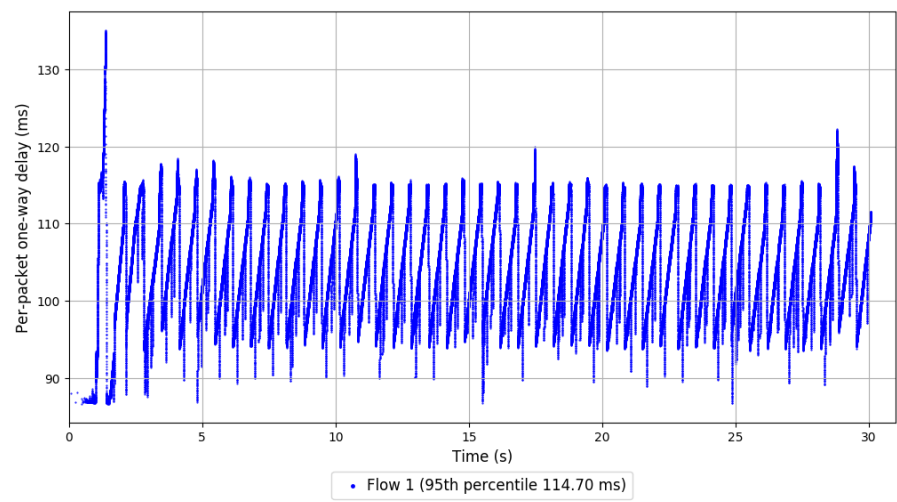
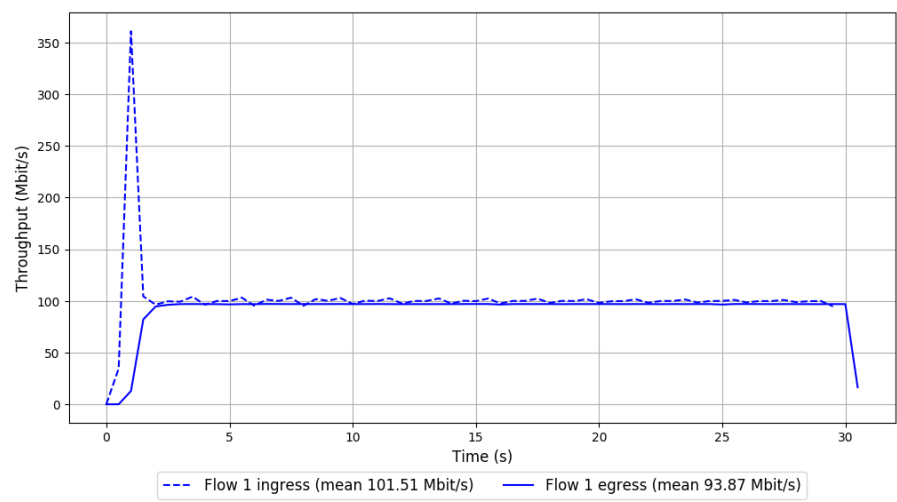


Run 4: Statistics of FillP

Start at: 2018-08-27 21:38:33
End at: 2018-08-27 21:39:03
Local clock offset: 0.722 ms
Remote clock offset: 13.122 ms

Below is generated by plot.py at 2018-08-27 23:59:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.87 Mbit/s
95th percentile per-packet one-way delay: 114.702 ms
Loss rate: 7.46%
-- Flow 1:
Average throughput: 93.87 Mbit/s
95th percentile per-packet one-way delay: 114.702 ms
Loss rate: 7.46%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-08-27 21:58:11

End at: 2018-08-27 21:58:41

Local clock offset: -0.258 ms

Remote clock offset: 9.736 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.81 Mbit/s

95th percentile per-packet one-way delay: 109.939 ms

Loss rate: 7.42%

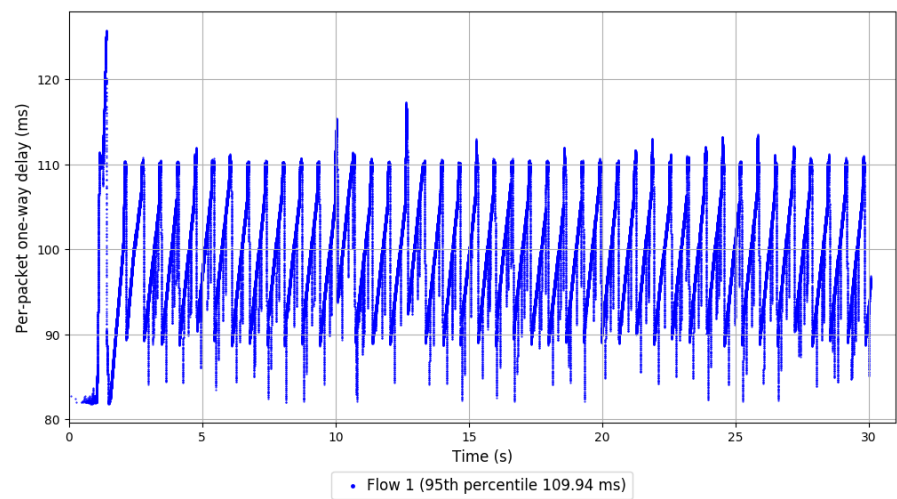
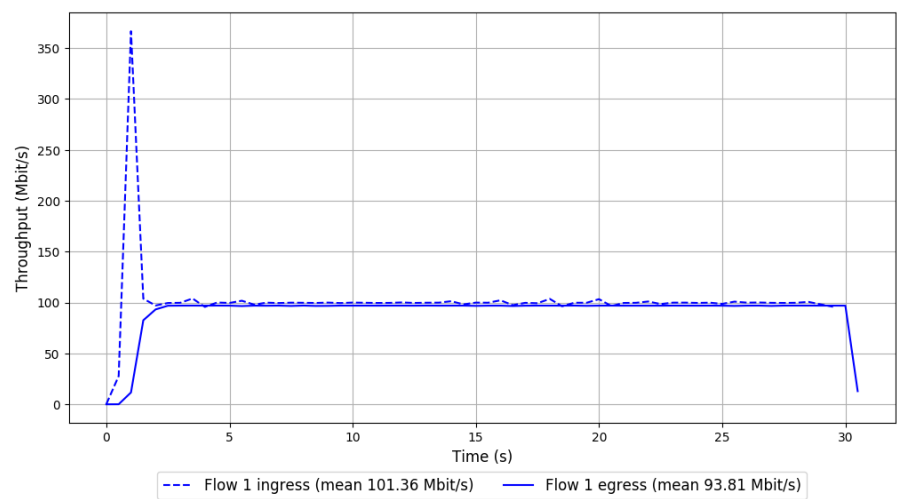
-- Flow 1:

Average throughput: 93.81 Mbit/s

95th percentile per-packet one-way delay: 109.939 ms

Loss rate: 7.42%

Run 5: Report of FillP — Data Link

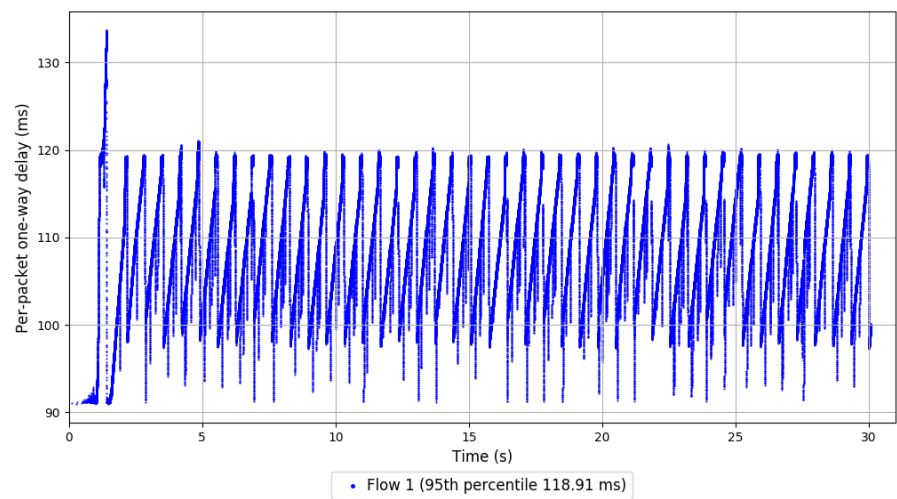
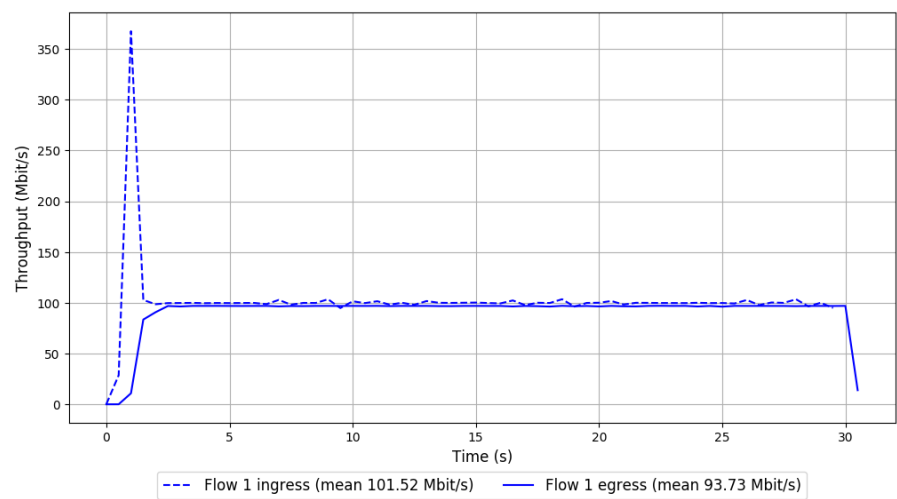


Run 6: Statistics of FillP

Start at: 2018-08-27 22:17:45
End at: 2018-08-27 22:18:15
Local clock offset: 3.718 ms
Remote clock offset: 14.309 ms

Below is generated by plot.py at 2018-08-28 00:00:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.73 Mbit/s
95th percentile per-packet one-way delay: 118.911 ms
Loss rate: 7.65%
-- Flow 1:
Average throughput: 93.73 Mbit/s
95th percentile per-packet one-way delay: 118.911 ms
Loss rate: 7.65%

Run 6: Report of FillP — Data Link

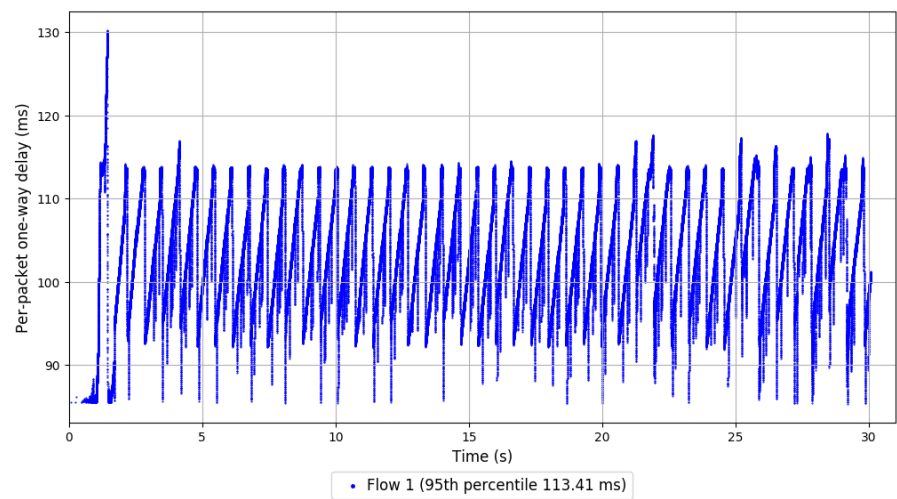
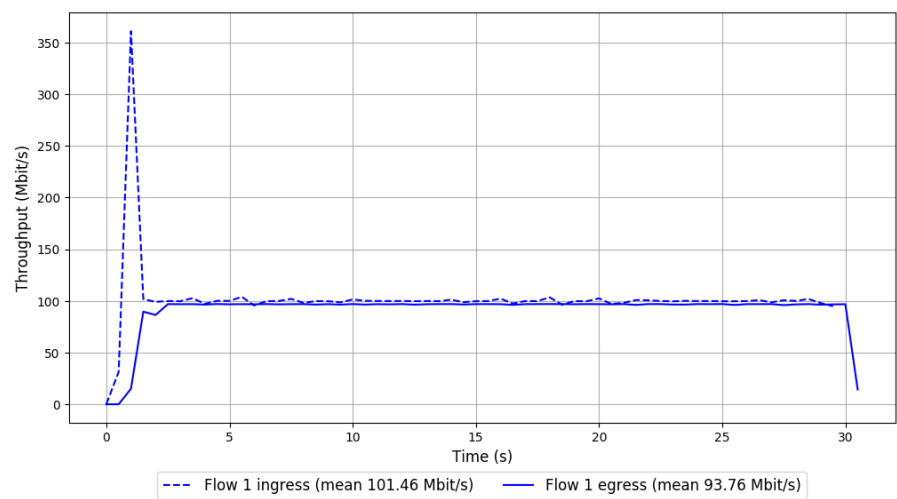


Run 7: Statistics of FillP

Start at: 2018-08-27 22:37:20
End at: 2018-08-27 22:37:50
Local clock offset: 2.082 ms
Remote clock offset: 13.399 ms

Below is generated by plot.py at 2018-08-28 00:00:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.76 Mbit/s
95th percentile per-packet one-way delay: 113.410 ms
Loss rate: 7.54%
-- Flow 1:
Average throughput: 93.76 Mbit/s
95th percentile per-packet one-way delay: 113.410 ms
Loss rate: 7.54%

Run 7: Report of FillP — Data Link

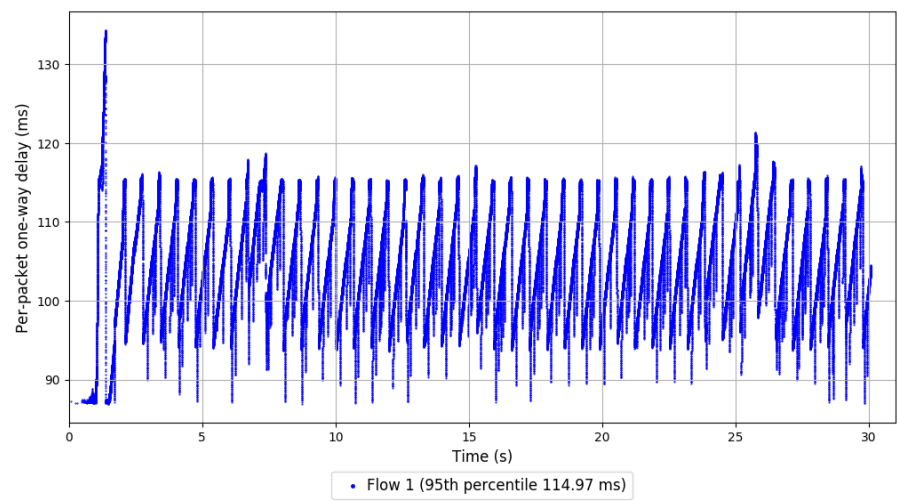
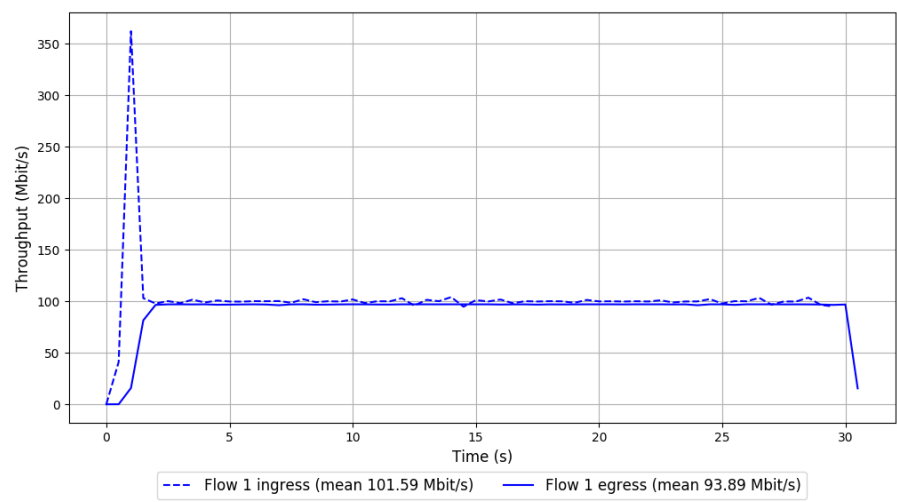


Run 8: Statistics of FillP

Start at: 2018-08-27 22:57:01
End at: 2018-08-27 22:57:31
Local clock offset: -0.21 ms
Remote clock offset: 16.809 ms

Below is generated by plot.py at 2018-08-28 00:00:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.89 Mbit/s
95th percentile per-packet one-way delay: 114.975 ms
Loss rate: 7.53%
-- Flow 1:
Average throughput: 93.89 Mbit/s
95th percentile per-packet one-way delay: 114.975 ms
Loss rate: 7.53%

Run 8: Report of FillP — Data Link

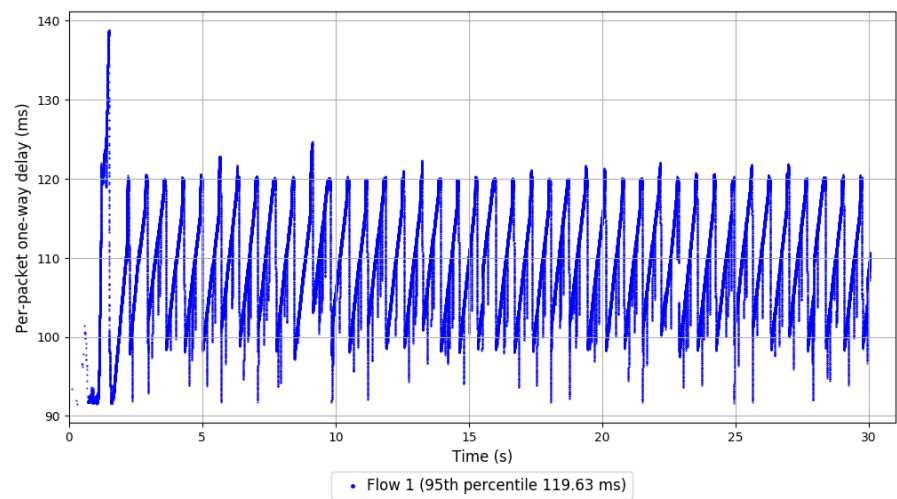
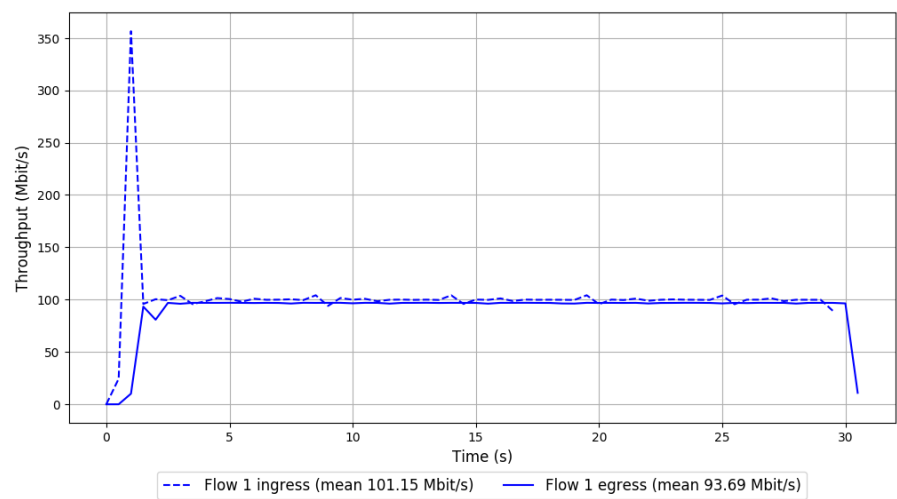


Run 9: Statistics of FillP

Start at: 2018-08-27 23:16:29
End at: 2018-08-27 23:16:59
Local clock offset: -0.094 ms
Remote clock offset: 16.856 ms

Below is generated by plot.py at 2018-08-28 00:00:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.69 Mbit/s
95th percentile per-packet one-way delay: 119.629 ms
Loss rate: 7.33%
-- Flow 1:
Average throughput: 93.69 Mbit/s
95th percentile per-packet one-way delay: 119.629 ms
Loss rate: 7.33%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-08-27 23:36:03

End at: 2018-08-27 23:36:34

Local clock offset: -1.555 ms

Remote clock offset: 12.06 ms

Below is generated by plot.py at 2018-08-28 00:00:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.74 Mbit/s

95th percentile per-packet one-way delay: 113.850 ms

Loss rate: 8.16%

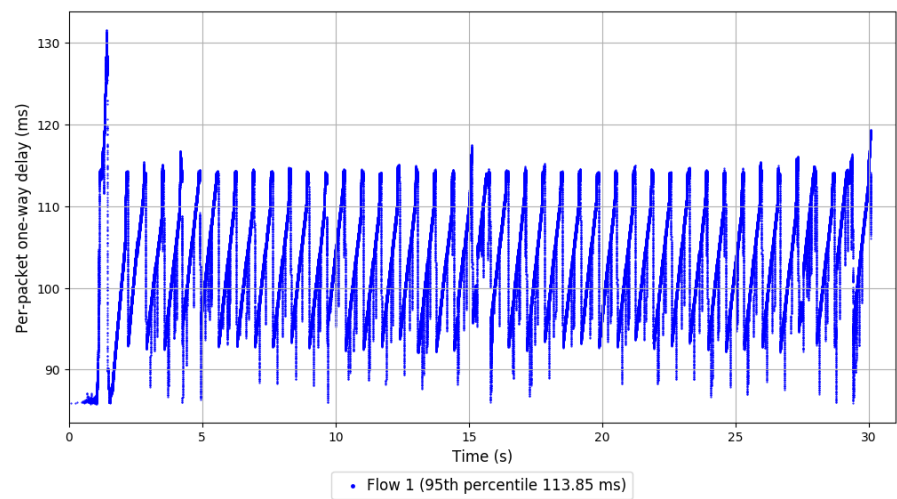
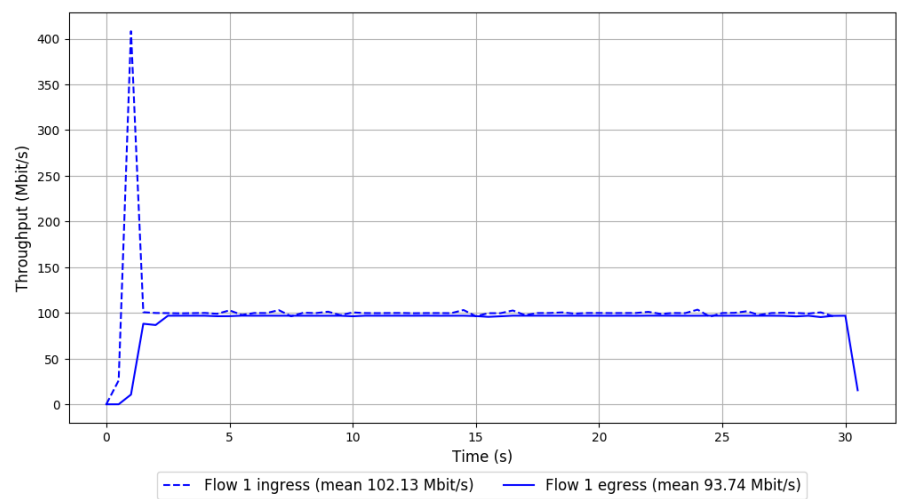
-- Flow 1:

Average throughput: 93.74 Mbit/s

95th percentile per-packet one-way delay: 113.850 ms

Loss rate: 8.16%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-08-27 20:50:12

End at: 2018-08-27 20:50:42

Local clock offset: 3.639 ms

Remote clock offset: 9.104 ms

Below is generated by plot.py at 2018-08-28 00:00:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.36 Mbit/s

95th percentile per-packet one-way delay: 112.773 ms

Loss rate: 2.02%

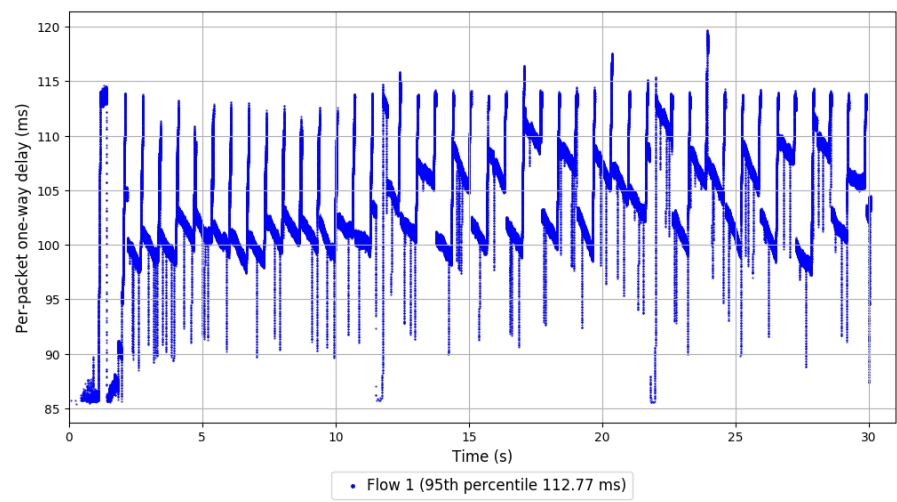
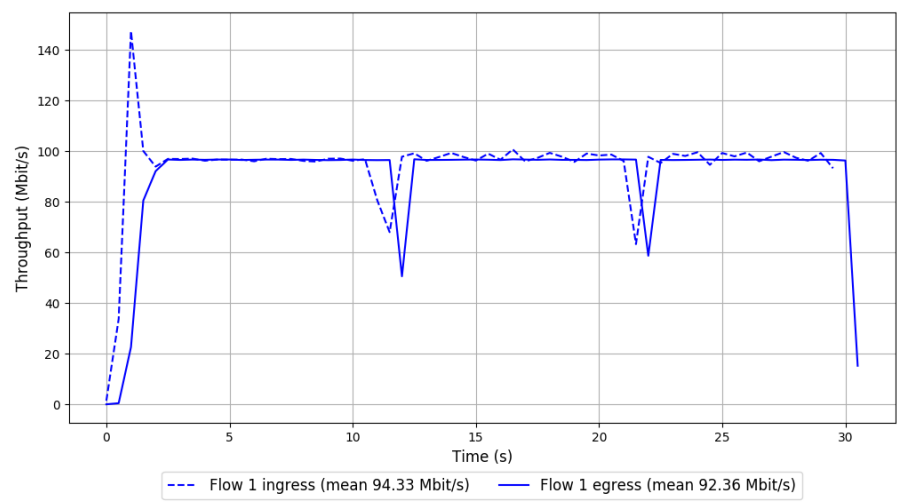
-- Flow 1:

Average throughput: 92.36 Mbit/s

95th percentile per-packet one-way delay: 112.773 ms

Loss rate: 2.02%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-08-27 21:09:47

End at: 2018-08-27 21:10:17

Local clock offset: 2.375 ms

Remote clock offset: 8.16 ms

Below is generated by plot.py at 2018-08-28 00:00:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.06 Mbit/s

95th percentile per-packet one-way delay: 114.045 ms

Loss rate: 2.86%

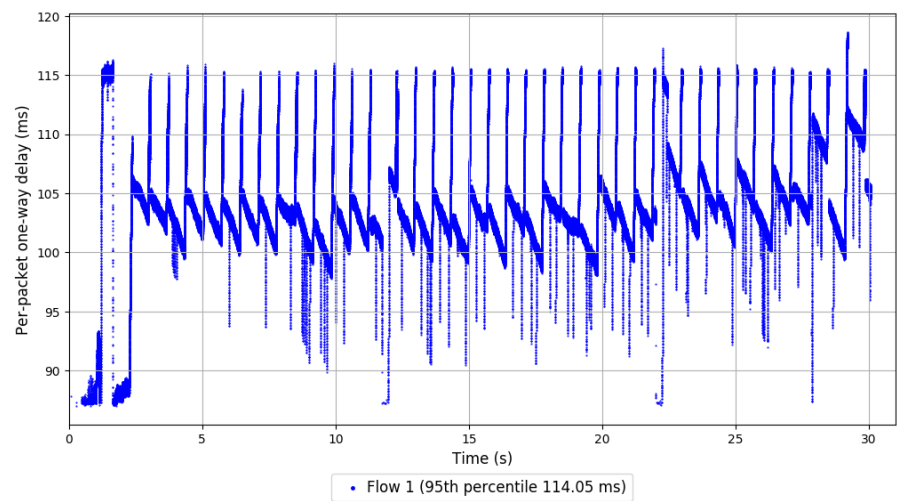
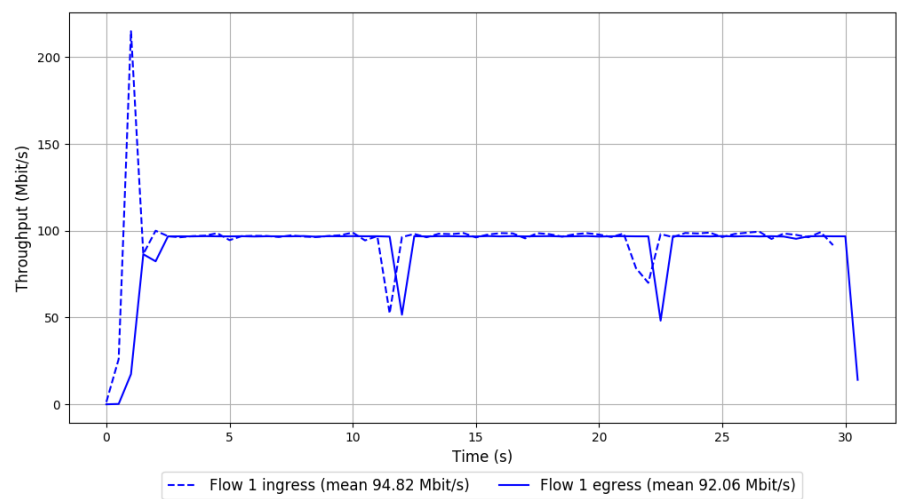
-- Flow 1:

Average throughput: 92.06 Mbit/s

95th percentile per-packet one-way delay: 114.045 ms

Loss rate: 2.86%

Run 2: Report of FillP-Sheep — Data Link

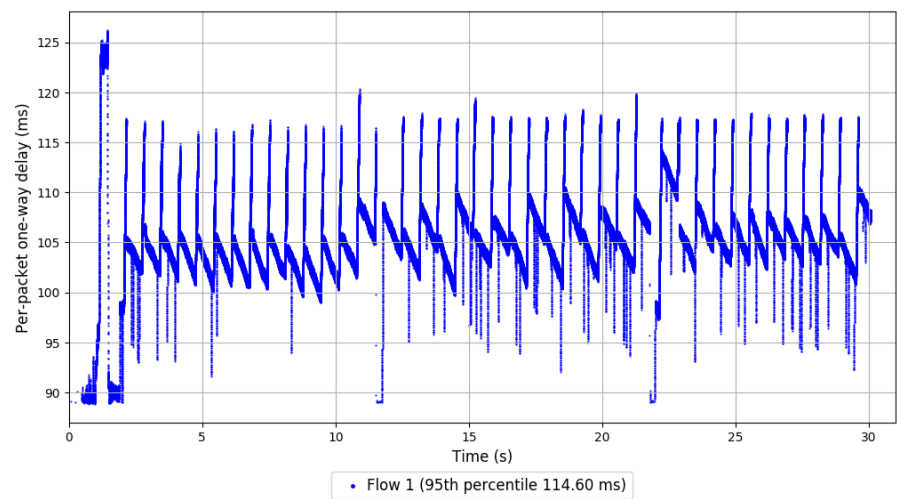
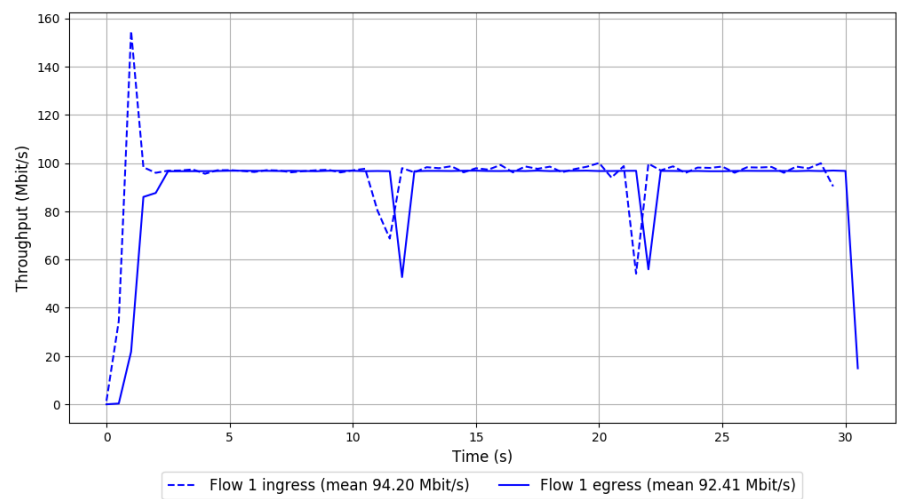


Run 3: Statistics of FillP-Sheep

Start at: 2018-08-27 21:29:21
End at: 2018-08-27 21:29:51
Local clock offset: 3.415 ms
Remote clock offset: 13.576 ms

Below is generated by plot.py at 2018-08-28 00:01:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.41 Mbit/s
95th percentile per-packet one-way delay: 114.601 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 92.41 Mbit/s
95th percentile per-packet one-way delay: 114.601 ms
Loss rate: 1.86%

Run 3: Report of FillP-Sheep — Data Link

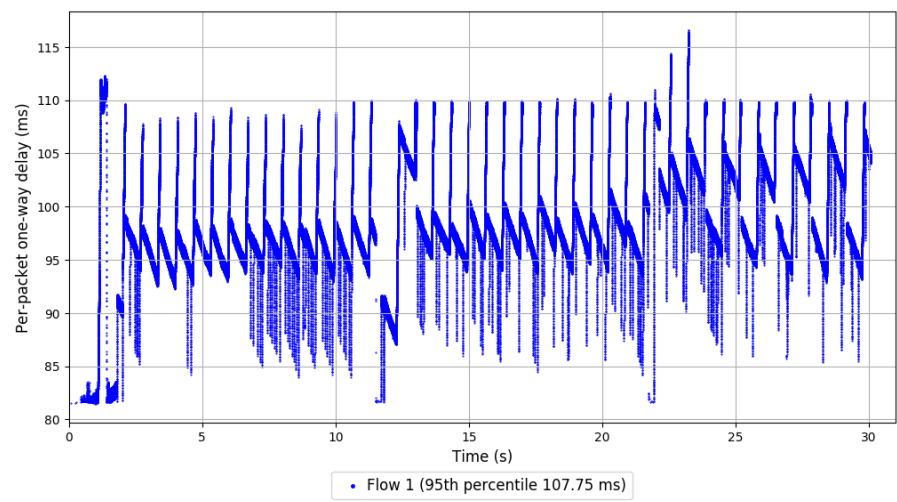
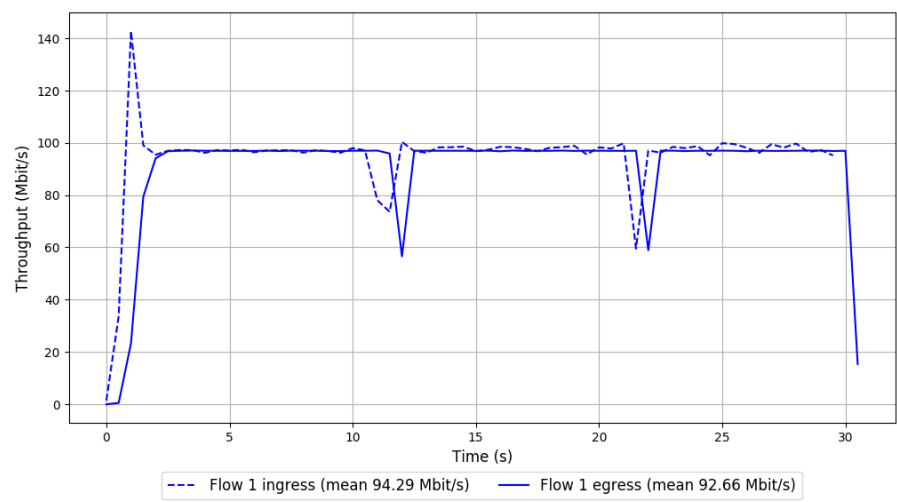


Run 4: Statistics of FillP-Sheep

Start at: 2018-08-27 21:48:57
End at: 2018-08-27 21:49:27
Local clock offset: 1.486 ms
Remote clock offset: 10.527 ms

Below is generated by plot.py at 2018-08-28 00:01:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.66 Mbit/s
95th percentile per-packet one-way delay: 107.755 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 92.66 Mbit/s
95th percentile per-packet one-way delay: 107.755 ms
Loss rate: 1.66%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

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

End at: 2018-08-27 22:09:02

Local clock offset: 1.512 ms

Remote clock offset: 14.568 ms

Below is generated by plot.py at 2018-08-28 00:01:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.54 Mbit/s

95th percentile per-packet one-way delay: 112.128 ms

Loss rate: 1.74%

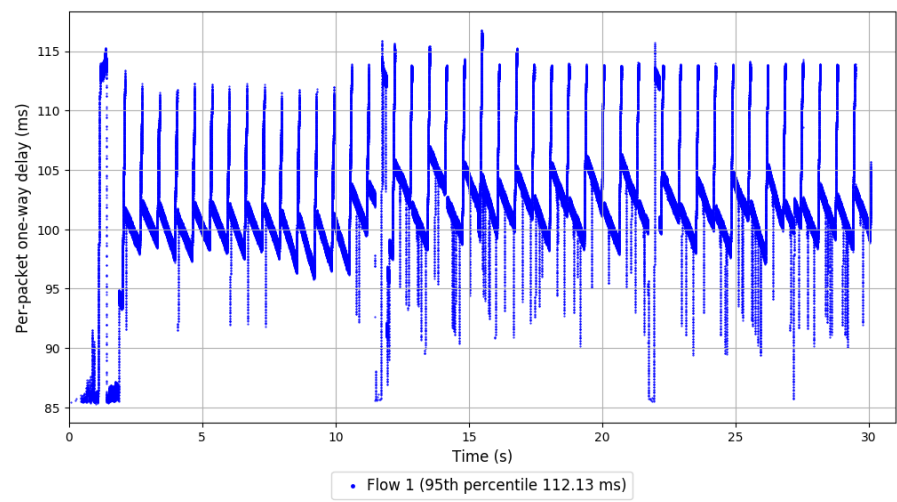
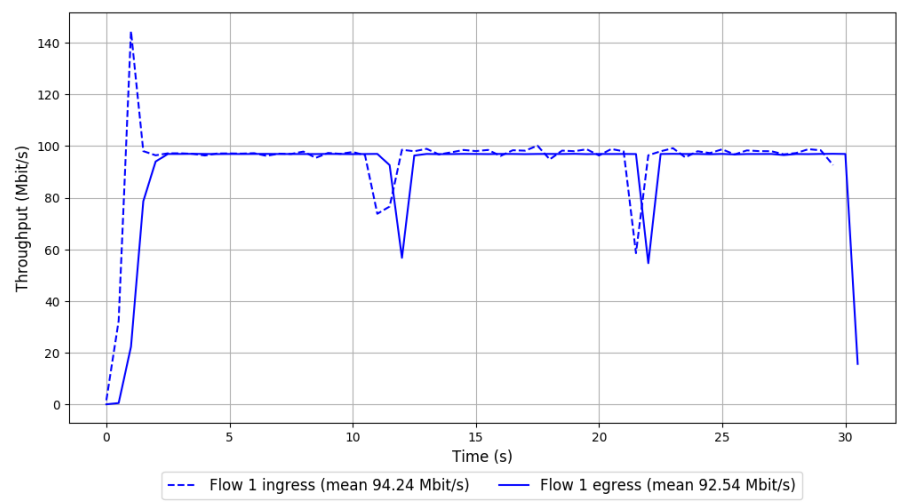
-- Flow 1:

Average throughput: 92.54 Mbit/s

95th percentile per-packet one-way delay: 112.128 ms

Loss rate: 1.74%

Run 5: Report of FillP-Sheep — Data Link

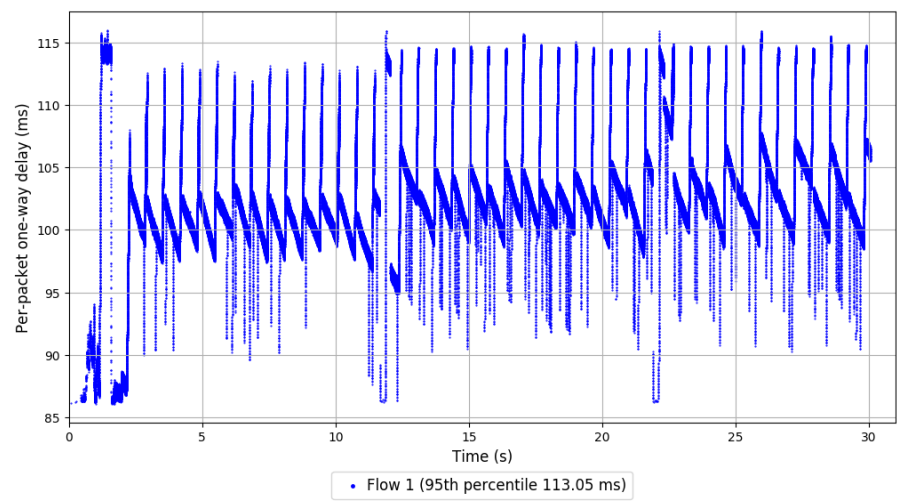
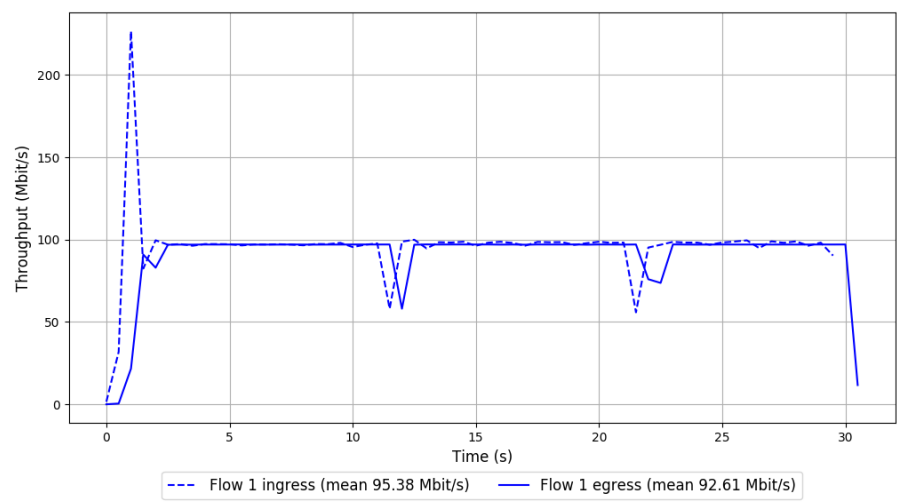


Run 6: Statistics of FillP-Sheep

Start at: 2018-08-27 22:28:07
End at: 2018-08-27 22:28:37
Local clock offset: 4.524 ms
Remote clock offset: 14.048 ms

Below is generated by plot.py at 2018-08-28 00:01:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.61 Mbit/s
95th percentile per-packet one-way delay: 113.046 ms
Loss rate: 2.84%
-- Flow 1:
Average throughput: 92.61 Mbit/s
95th percentile per-packet one-way delay: 113.046 ms
Loss rate: 2.84%

Run 6: Report of FillP-Sheep — Data Link

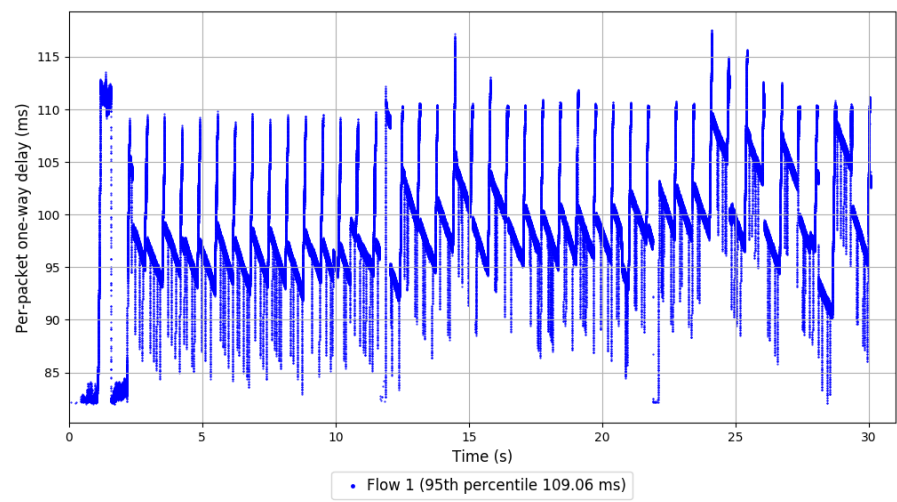
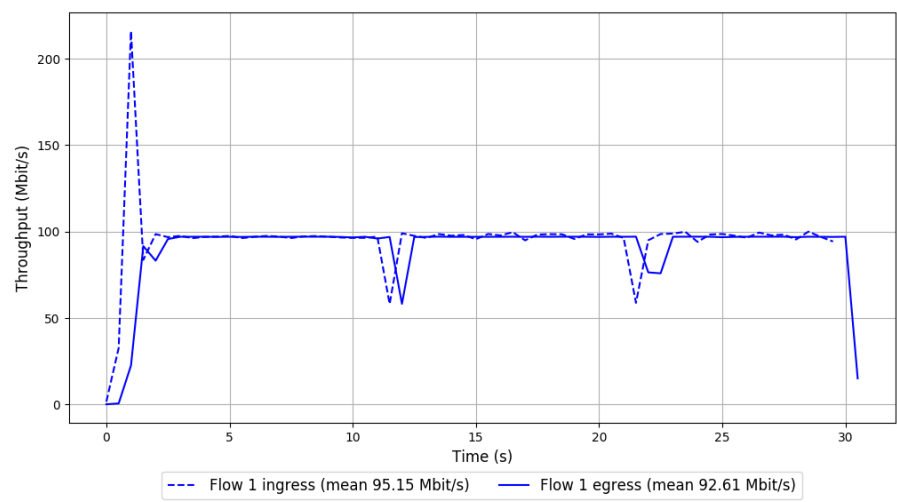


Run 7: Statistics of FillP-Sheep

Start at: 2018-08-27 22:47:49
End at: 2018-08-27 22:48:19
Local clock offset: 1.106 ms
Remote clock offset: 11.934 ms

Below is generated by plot.py at 2018-08-28 00:02:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.61 Mbit/s
95th percentile per-packet one-way delay: 109.061 ms
Loss rate: 2.60%
-- Flow 1:
Average throughput: 92.61 Mbit/s
95th percentile per-packet one-way delay: 109.061 ms
Loss rate: 2.60%

Run 7: Report of FillP-Sheep — Data Link

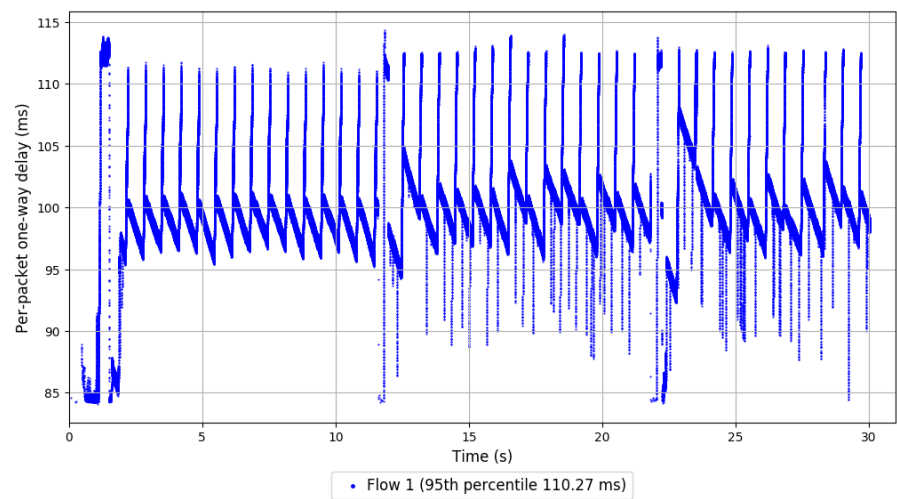
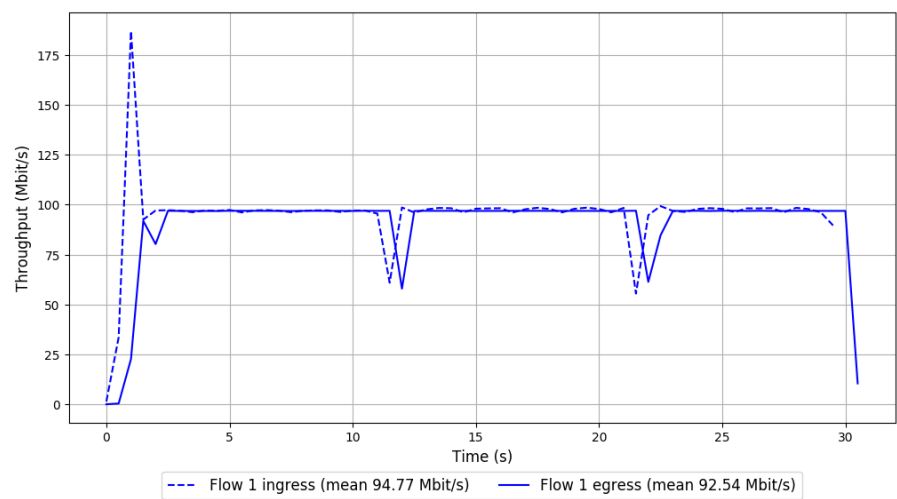


Run 8: Statistics of FillP-Sheep

Start at: 2018-08-27 23:07:20
End at: 2018-08-27 23:07:50
Local clock offset: 0.943 ms
Remote clock offset: 16.129 ms

Below is generated by plot.py at 2018-08-28 00:02:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.54 Mbit/s
95th percentile per-packet one-way delay: 110.270 ms
Loss rate: 2.31%
-- Flow 1:
Average throughput: 92.54 Mbit/s
95th percentile per-packet one-way delay: 110.270 ms
Loss rate: 2.31%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-08-27 23:26:53

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

Local clock offset: -0.309 ms

Remote clock offset: 12.256 ms

Below is generated by plot.py at 2018-08-28 00:02:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.32 Mbit/s

95th percentile per-packet one-way delay: 113.478 ms

Loss rate: 1.73%

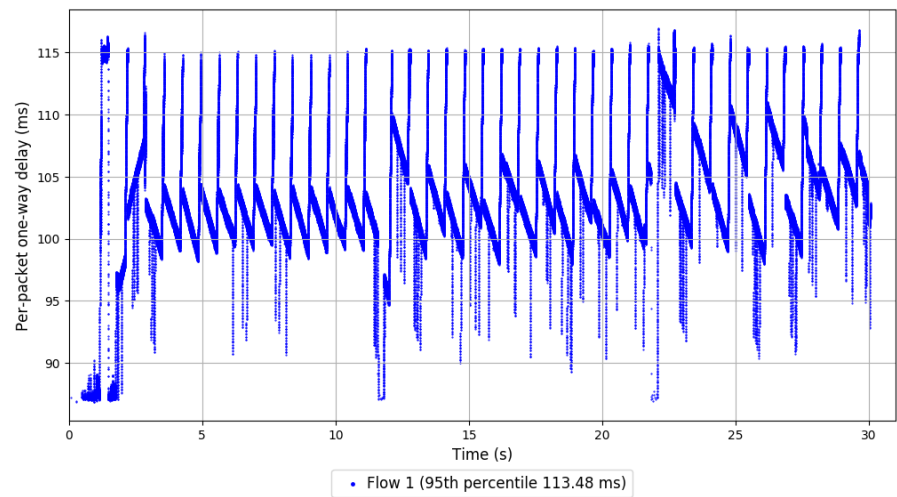
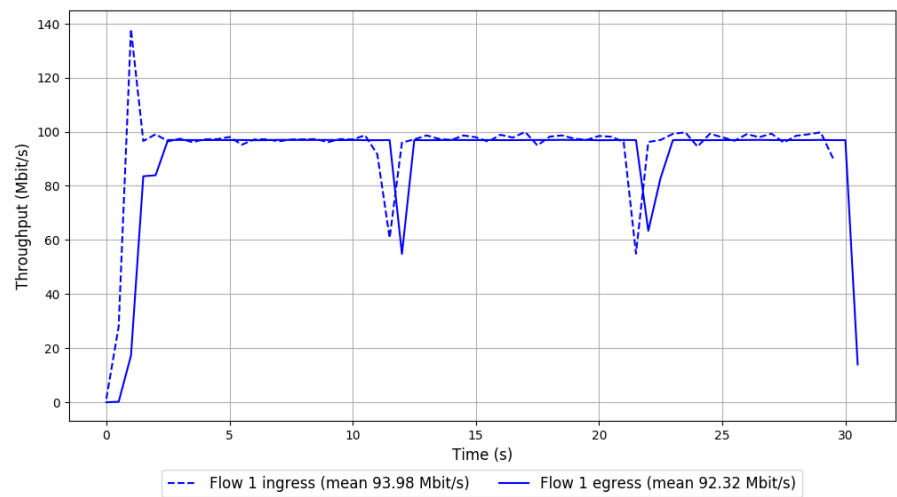
-- Flow 1:

Average throughput: 92.32 Mbit/s

95th percentile per-packet one-way delay: 113.478 ms

Loss rate: 1.73%

Run 9: Report of FillP-Sheep — Data Link

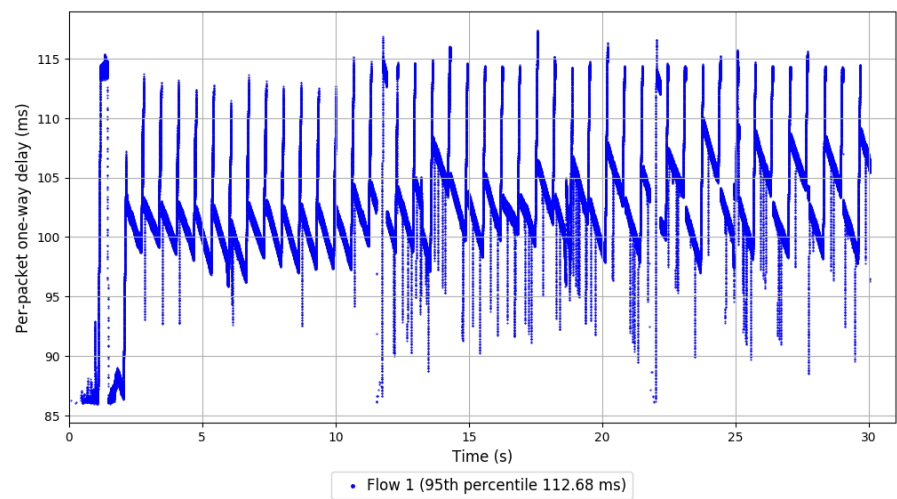
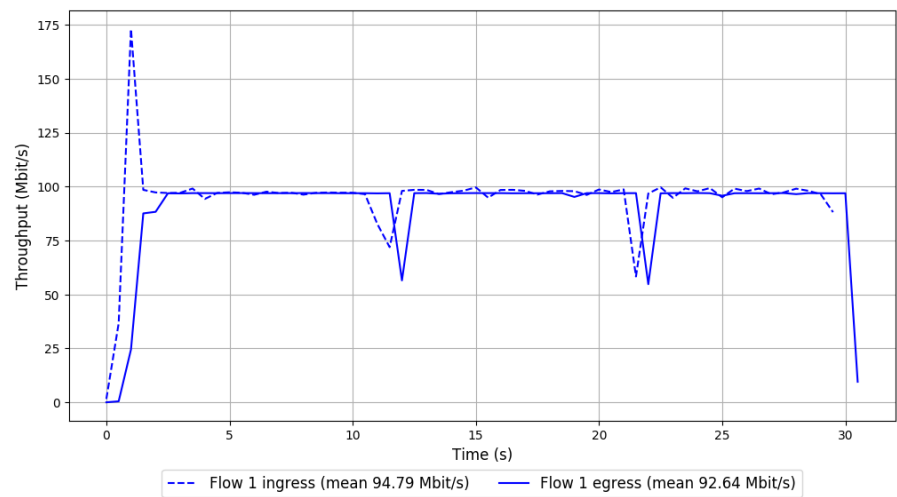


Run 10: Statistics of FillP-Sheep

Start at: 2018-08-27 23:46:35
End at: 2018-08-27 23:47:05
Local clock offset: -3.151 ms
Remote clock offset: 16.001 ms

Below is generated by plot.py at 2018-08-28 00:02:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.64 Mbit/s
95th percentile per-packet one-way delay: 112.681 ms
Loss rate: 2.23%
-- Flow 1:
Average throughput: 92.64 Mbit/s
95th percentile per-packet one-way delay: 112.681 ms
Loss rate: 2.23%

Run 10: Report of FillP-Sheep — Data Link

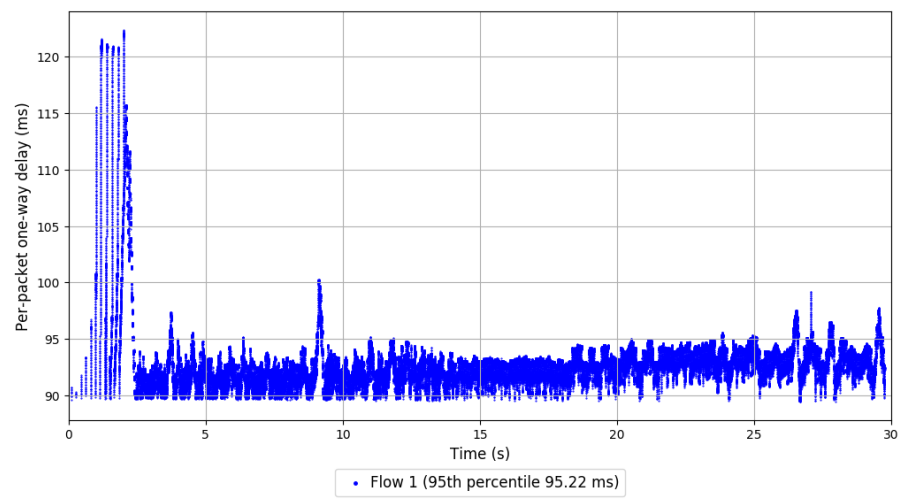
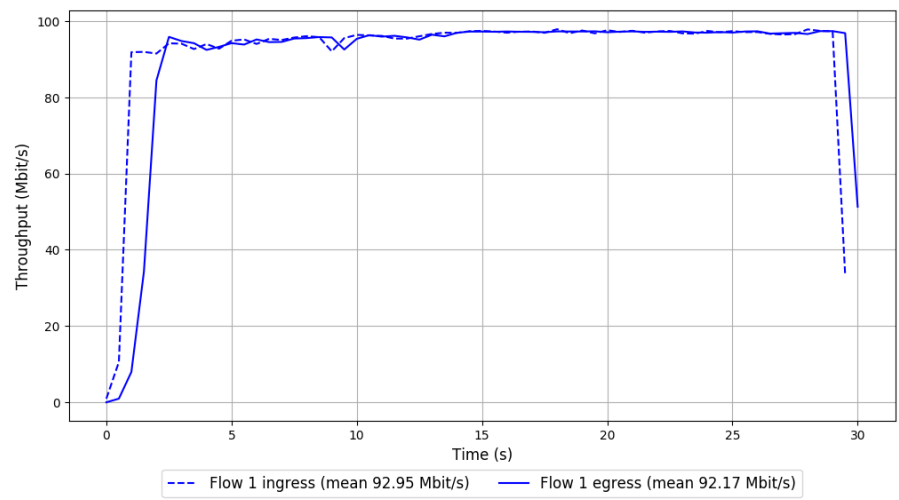


```
Run 1: Statistics of Indigo

Start at: 2018-08-27 20:38:39
End at: 2018-08-27 20:39:09
Local clock offset: 5.951 ms
Remote clock offset: 3.52 ms

# Below is generated by plot.py at 2018-08-28 00:02:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.17 Mbit/s
95th percentile per-packet one-way delay: 95.221 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 92.17 Mbit/s
95th percentile per-packet one-way delay: 95.221 ms
Loss rate: 0.84%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-08-27 20:58:13

End at: 2018-08-27 20:58:43

Local clock offset: 3.67 ms

Remote clock offset: 7.39 ms

Below is generated by plot.py at 2018-08-28 00:02:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.38 Mbit/s

95th percentile per-packet one-way delay: 87.611 ms

Loss rate: 0.73%

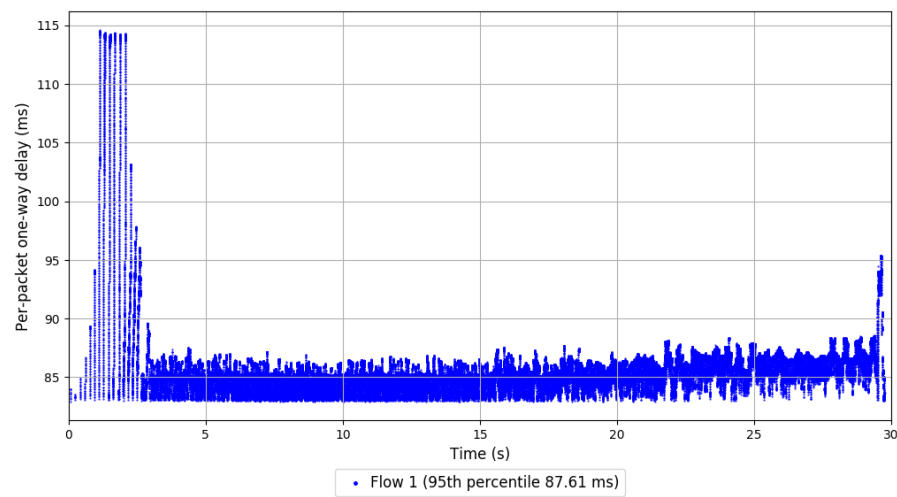
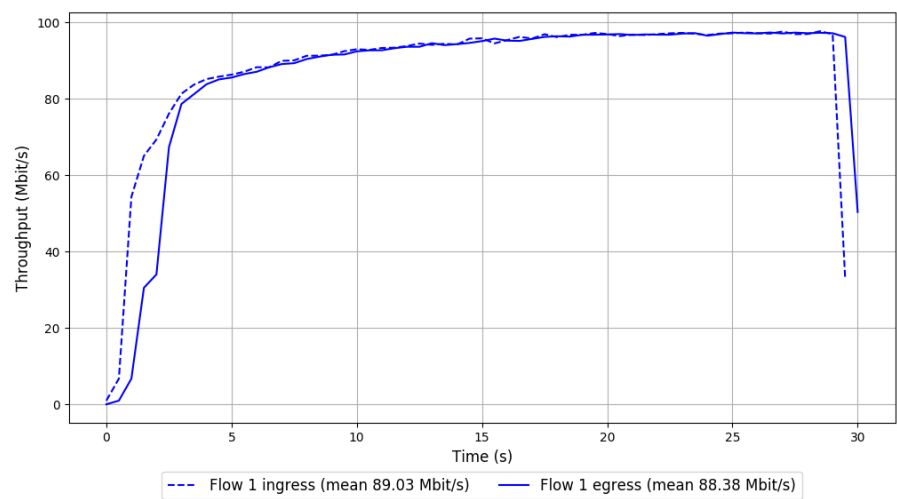
-- Flow 1:

Average throughput: 88.38 Mbit/s

95th percentile per-packet one-way delay: 87.611 ms

Loss rate: 0.73%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

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

End at: 2018-08-27 21:18:16

Local clock offset: 1.807 ms

Remote clock offset: 9.522 ms

Below is generated by plot.py at 2018-08-28 00:02:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.39 Mbit/s

95th percentile per-packet one-way delay: 88.797 ms

Loss rate: 0.05%

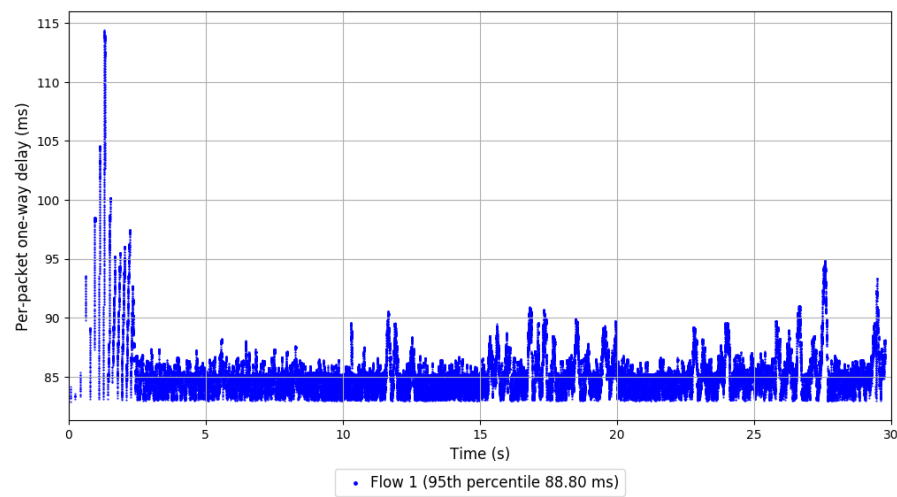
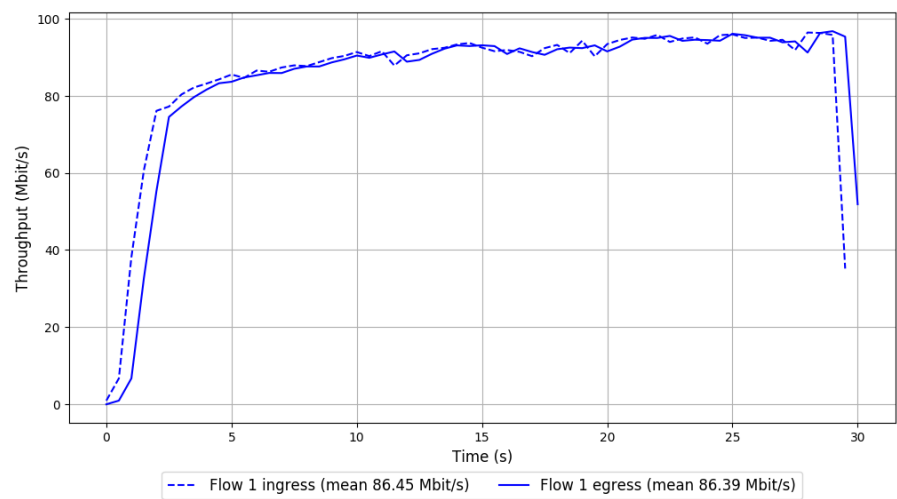
-- Flow 1:

Average throughput: 86.39 Mbit/s

95th percentile per-packet one-way delay: 88.797 ms

Loss rate: 0.05%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-08-27 21:37:22

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

Local clock offset: 2.418 ms

Remote clock offset: 9.02 ms

Below is generated by plot.py at 2018-08-28 00:02:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.54 Mbit/s

95th percentile per-packet one-way delay: 90.998 ms

Loss rate: 0.83%

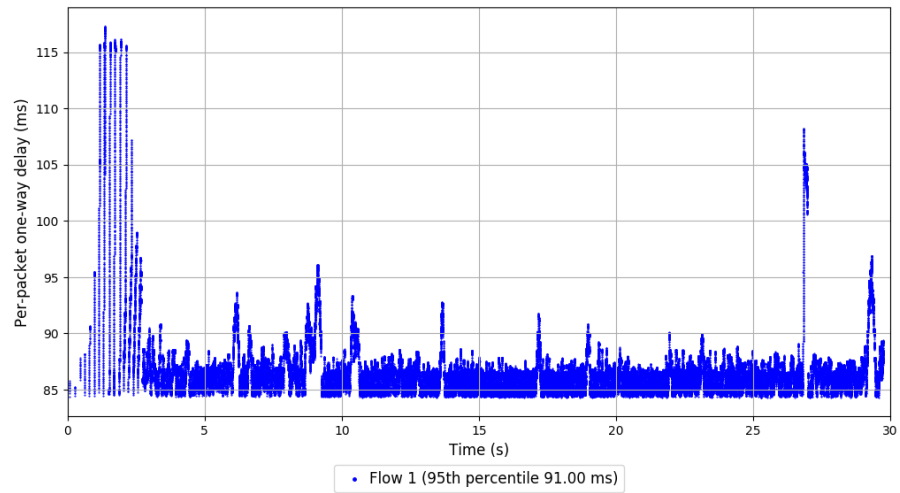
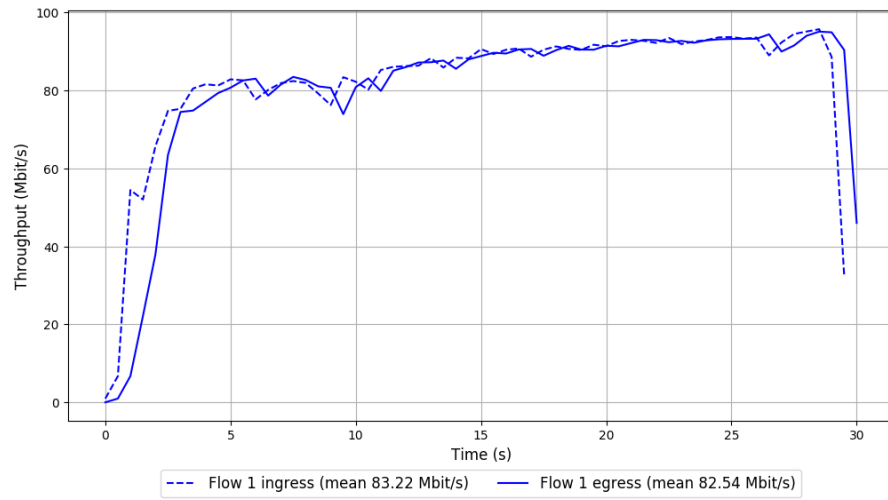
-- Flow 1:

Average throughput: 82.54 Mbit/s

95th percentile per-packet one-way delay: 90.998 ms

Loss rate: 0.83%

Run 4: Report of Indigo — Data Link

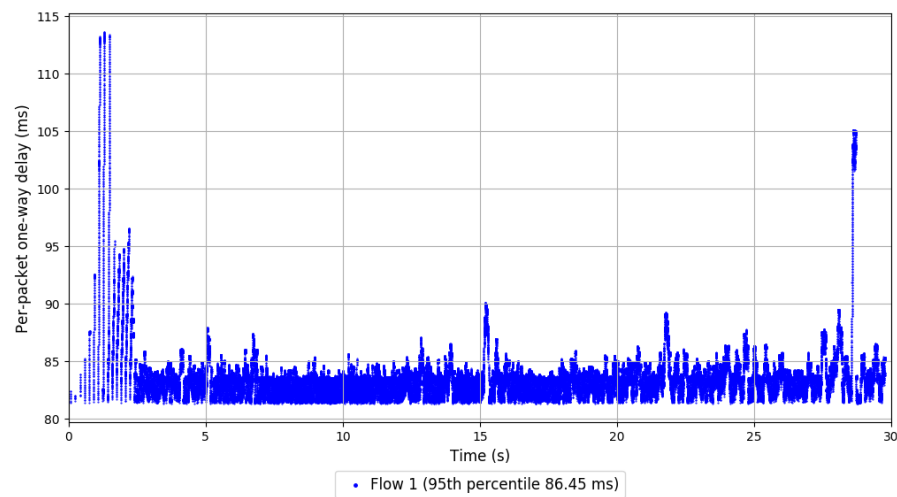
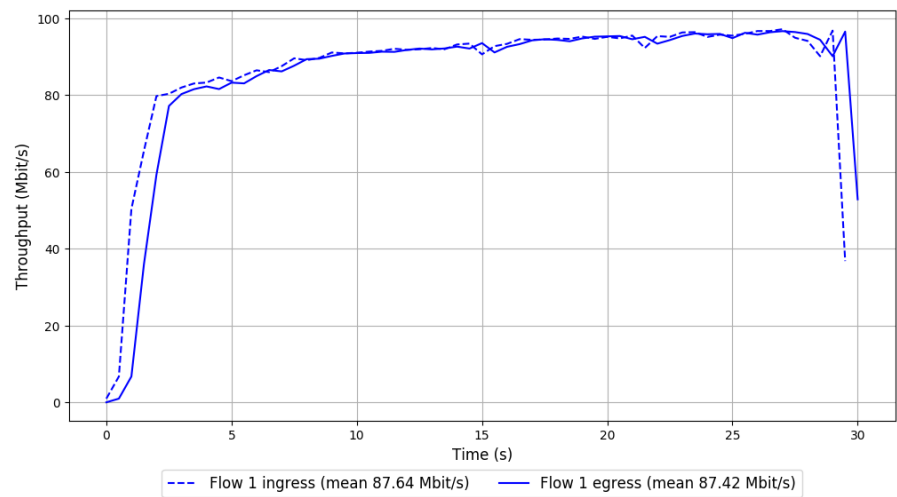


Run 5: Statistics of Indigo

Start at: 2018-08-27 21:56:59
End at: 2018-08-27 21:57:29
Local clock offset: -0.311 ms
Remote clock offset: 10.854 ms

Below is generated by plot.py at 2018-08-28 00:03:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.42 Mbit/s
95th percentile per-packet one-way delay: 86.453 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 87.42 Mbit/s
95th percentile per-packet one-way delay: 86.453 ms
Loss rate: 0.24%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-08-27 22:16:33

End at: 2018-08-27 22:17:03

Local clock offset: 3.587 ms

Remote clock offset: 9.316 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.85 Mbit/s

95th percentile per-packet one-way delay: 87.963 ms

Loss rate: 0.64%

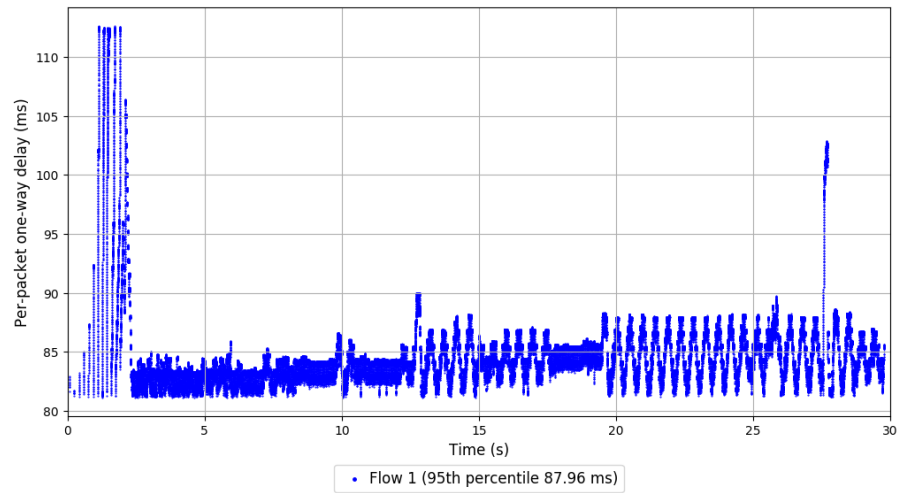
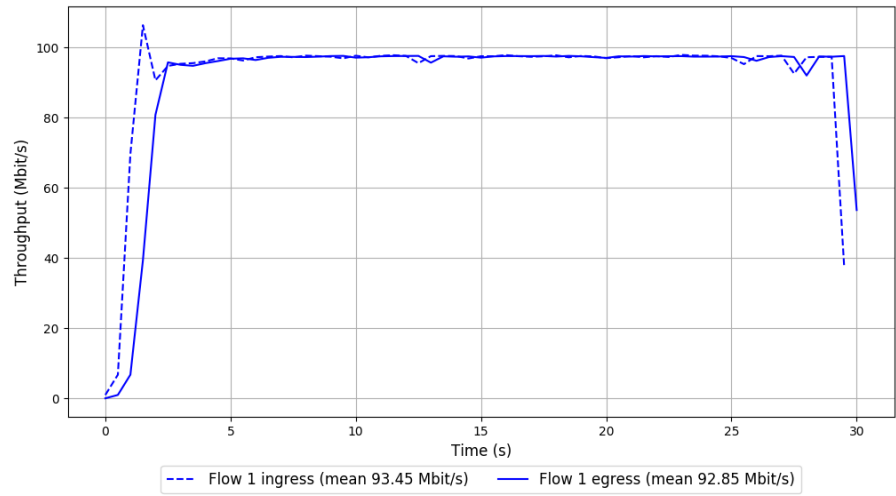
-- Flow 1:

Average throughput: 92.85 Mbit/s

95th percentile per-packet one-way delay: 87.963 ms

Loss rate: 0.64%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

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

End at: 2018-08-27 22:36:38

Local clock offset: 3.134 ms

Remote clock offset: 9.703 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.67 Mbit/s

95th percentile per-packet one-way delay: 85.570 ms

Loss rate: 1.01%

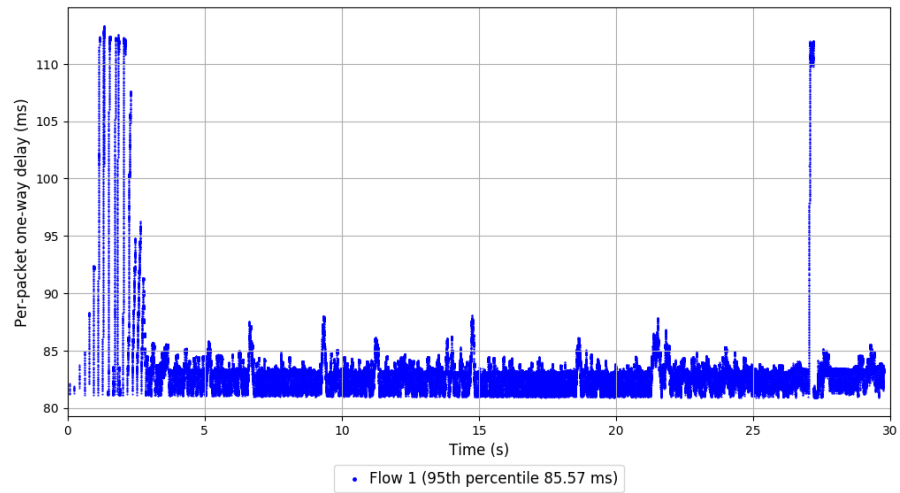
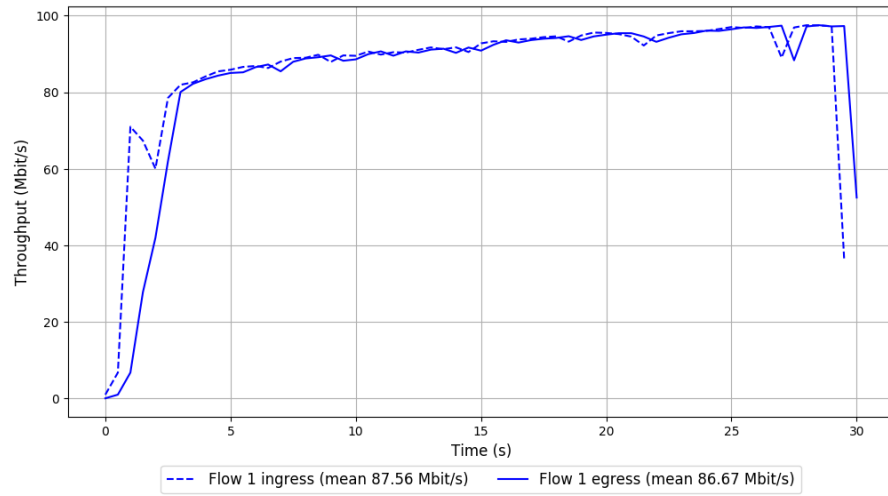
-- Flow 1:

Average throughput: 86.67 Mbit/s

95th percentile per-packet one-way delay: 85.570 ms

Loss rate: 1.01%

Run 7: Report of Indigo — Data Link

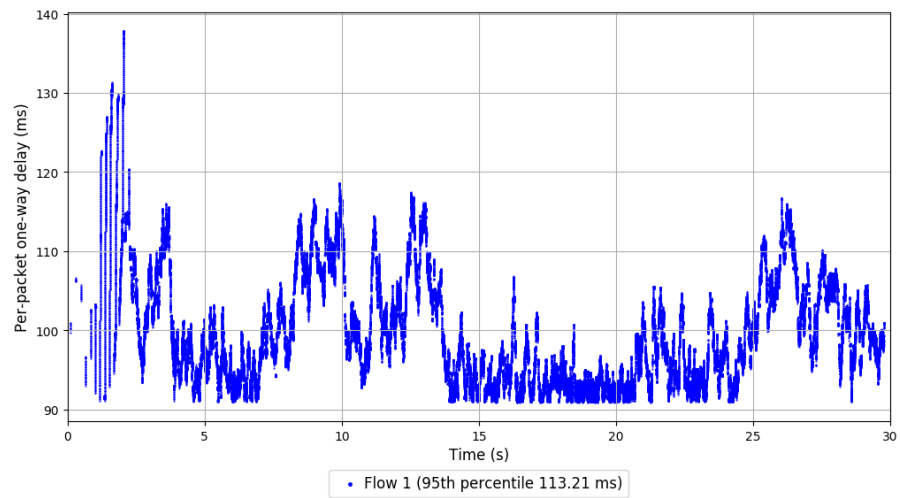
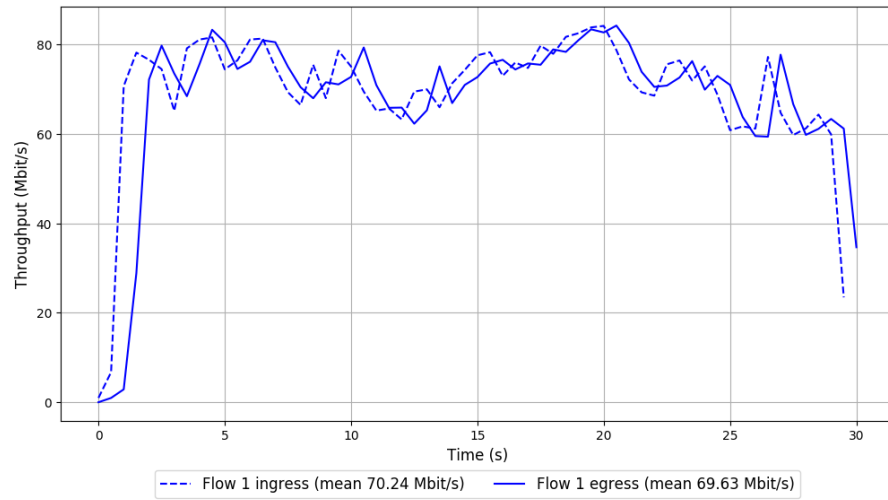


Run 8: Statistics of Indigo

Start at: 2018-08-27 22:55:50
End at: 2018-08-27 22:56:20
Local clock offset: 0.544 ms
Remote clock offset: 17.859 ms

Below is generated by plot.py at 2018-08-28 00:03:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 69.63 Mbit/s
95th percentile per-packet one-way delay: 113.214 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 69.63 Mbit/s
95th percentile per-packet one-way delay: 113.214 ms
Loss rate: 0.88%

Run 8: Report of Indigo — Data Link

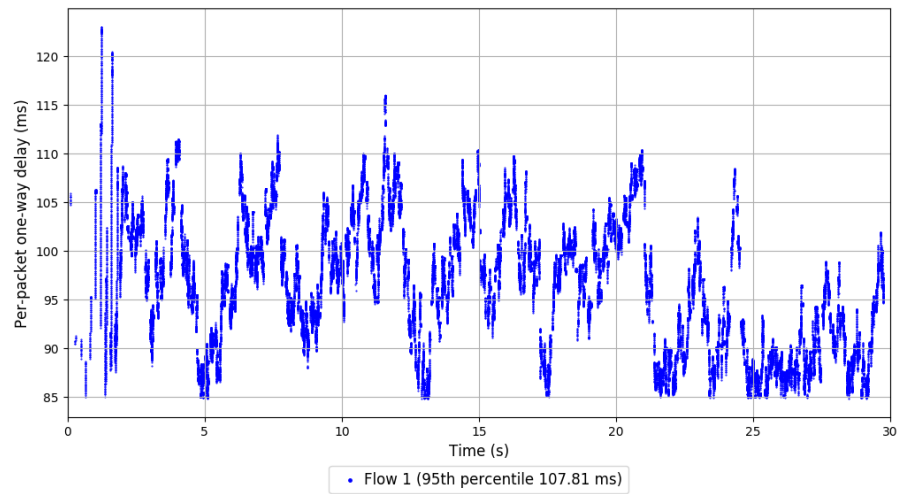
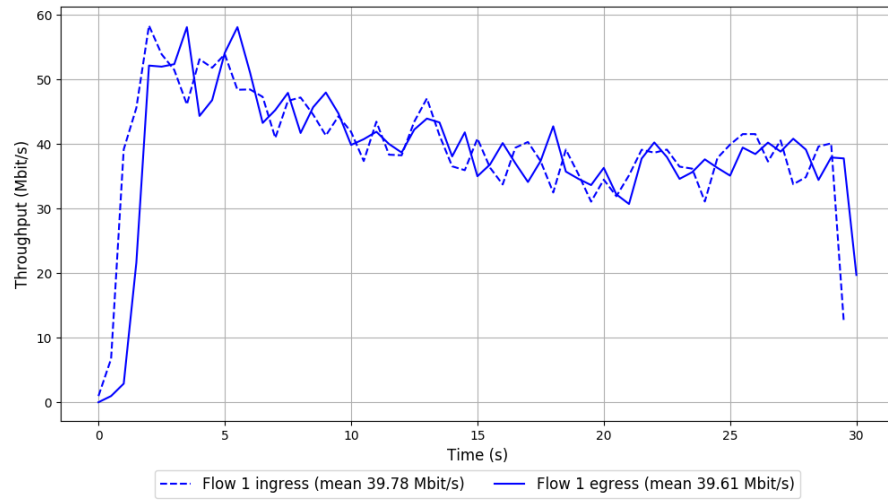


Run 9: Statistics of Indigo

Start at: 2018-08-27 23:15:20
End at: 2018-08-27 23:15:50
Local clock offset: 0.708 ms
Remote clock offset: 12.963 ms

Below is generated by plot.py at 2018-08-28 00:03:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 39.61 Mbit/s
95th percentile per-packet one-way delay: 107.812 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 39.61 Mbit/s
95th percentile per-packet one-way delay: 107.812 ms
Loss rate: 0.49%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-08-27 23:34:52

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

Local clock offset: -1.99 ms

Remote clock offset: 15.213 ms

Below is generated by plot.py at 2018-08-28 00:03:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.19 Mbit/s

95th percentile per-packet one-way delay: 92.372 ms

Loss rate: 0.78%

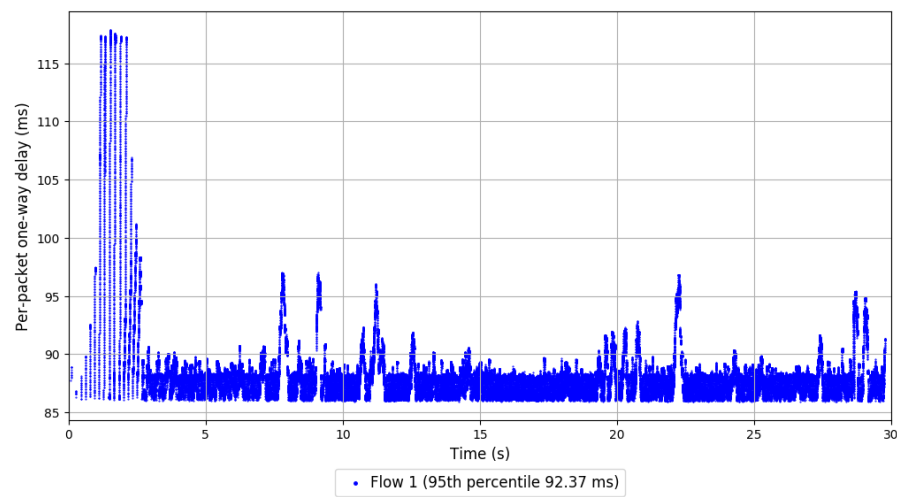
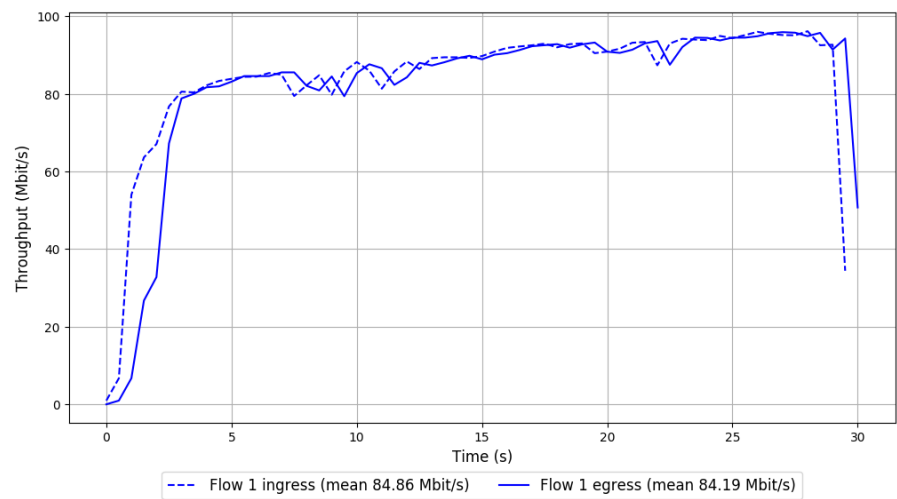
-- Flow 1:

Average throughput: 84.19 Mbit/s

95th percentile per-packet one-way delay: 92.372 ms

Loss rate: 0.78%

Run 10: Report of Indigo — Data Link

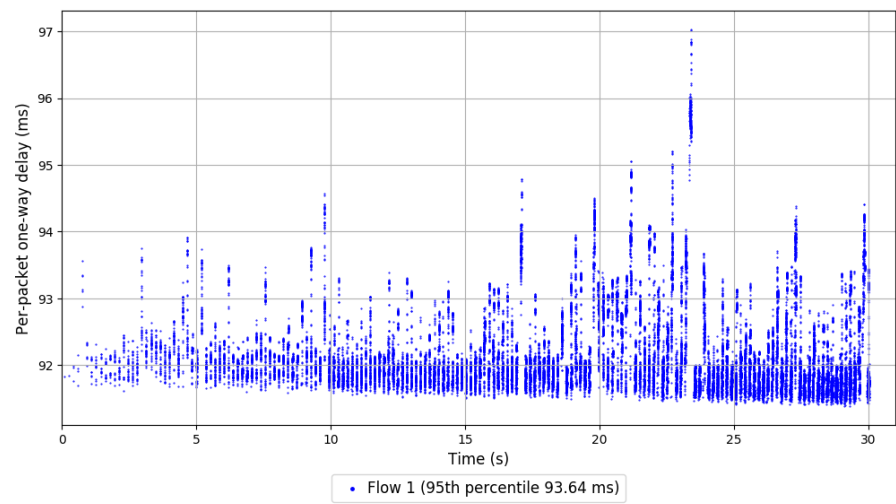
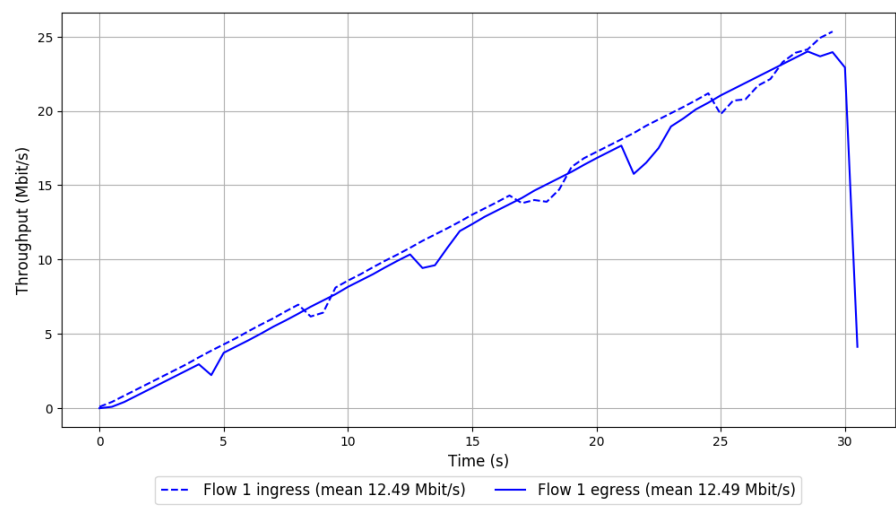


```
Run 1: Statistics of LEDBAT

Start at: 2018-08-27 20:42:08
End at: 2018-08-27 20:42:38
Local clock offset: 4.365 ms
Remote clock offset: 7.277 ms

# Below is generated by plot.py at 2018-08-28 00:03:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.49 Mbit/s
95th percentile per-packet one-way delay: 93.642 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.49 Mbit/s
95th percentile per-packet one-way delay: 93.642 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-08-27 21:01:44

End at: 2018-08-27 21:02:14

Local clock offset: 4.677 ms

Remote clock offset: 8.093 ms

Below is generated by plot.py at 2018-08-28 00:03:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.07 Mbit/s

95th percentile per-packet one-way delay: 83.556 ms

Loss rate: 0.00%

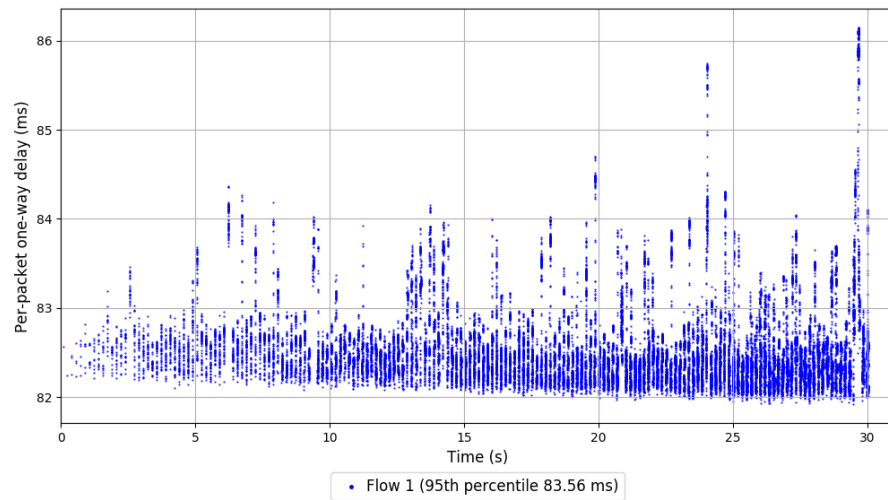
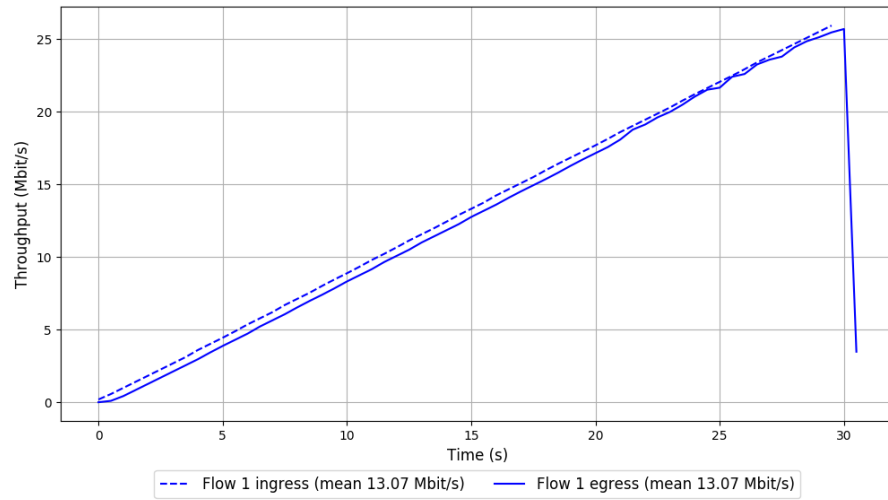
-- Flow 1:

Average throughput: 13.07 Mbit/s

95th percentile per-packet one-way delay: 83.556 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

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

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

Local clock offset: 1.766 ms

Remote clock offset: 8.687 ms

Below is generated by plot.py at 2018-08-28 00:03:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.41 Mbit/s

95th percentile per-packet one-way delay: 83.965 ms

Loss rate: 0.02%

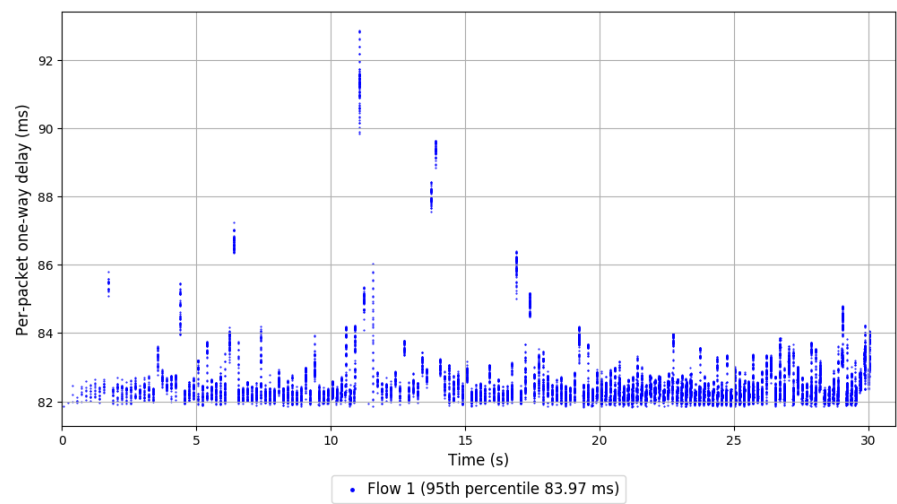
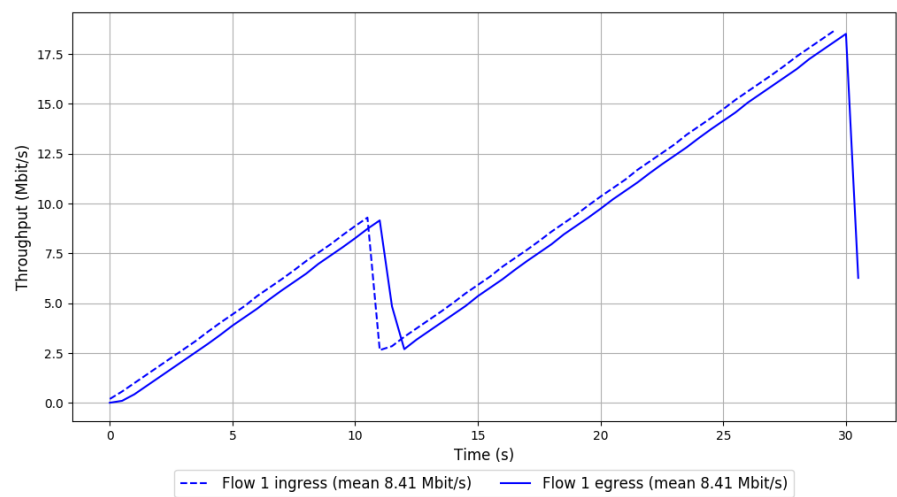
-- Flow 1:

Average throughput: 8.41 Mbit/s

95th percentile per-packet one-way delay: 83.965 ms

Loss rate: 0.02%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-08-27 21:40:52

End at: 2018-08-27 21:41:22

Local clock offset: 2.001 ms

Remote clock offset: 8.366 ms

Below is generated by plot.py at 2018-08-28 00:03:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.82 Mbit/s

95th percentile per-packet one-way delay: 83.793 ms

Loss rate: 0.01%

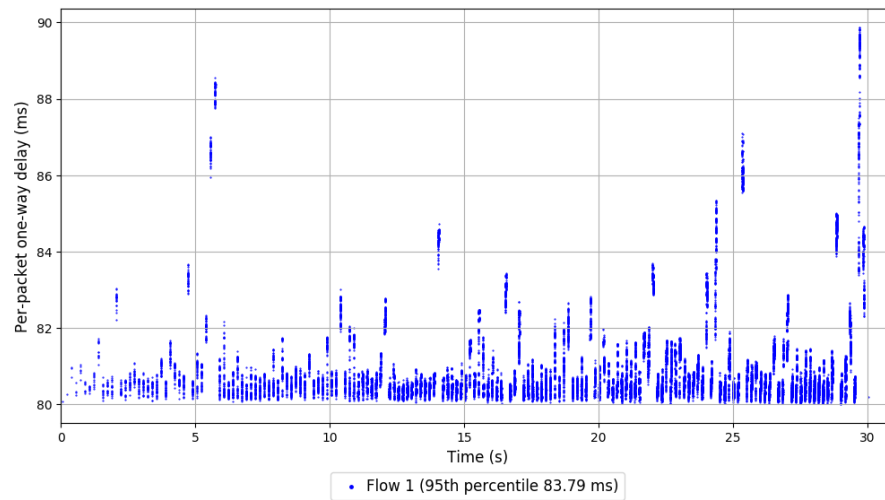
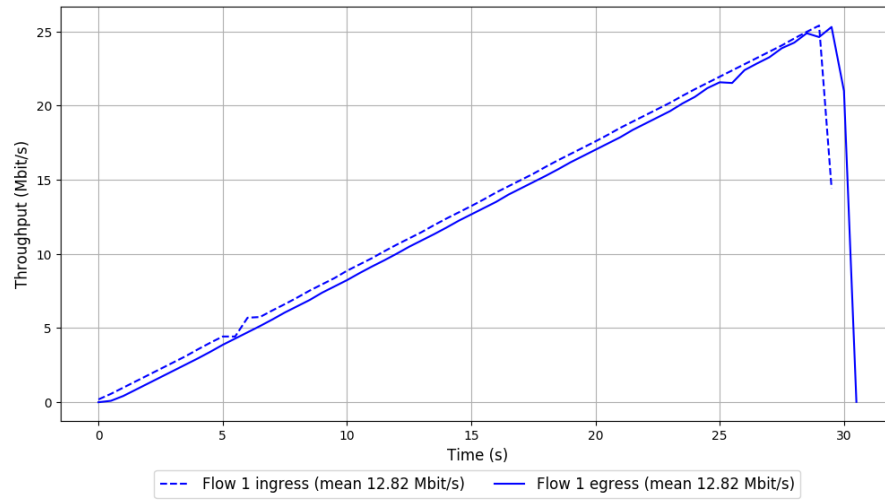
-- Flow 1:

Average throughput: 12.82 Mbit/s

95th percentile per-packet one-way delay: 83.793 ms

Loss rate: 0.01%

Run 4: Report of LEDBAT — Data Link

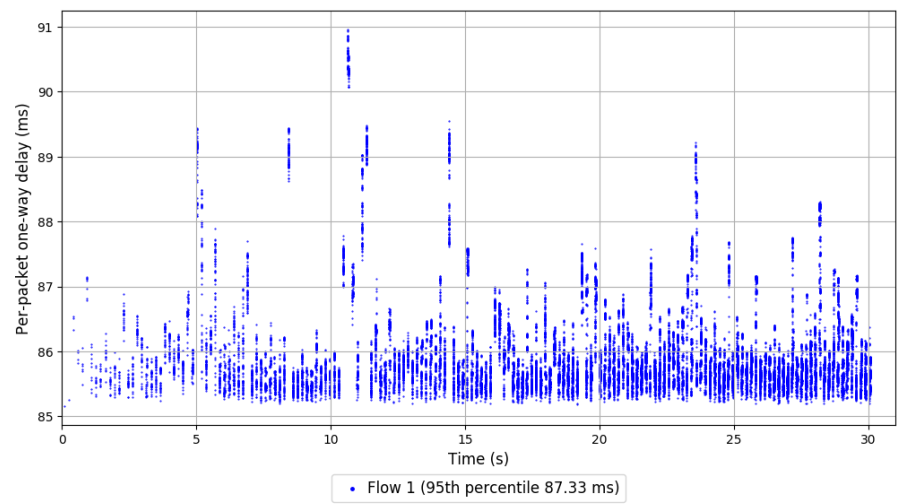
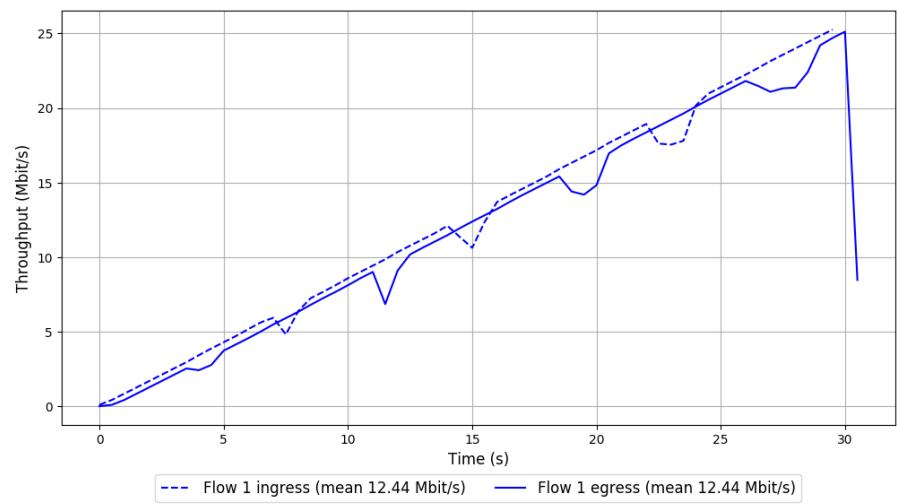


Run 5: Statistics of LEDBAT

Start at: 2018-08-27 22:00:29
End at: 2018-08-27 22:00:59
Local clock offset: 0.48 ms
Remote clock offset: 10.708 ms

Below is generated by plot.py at 2018-08-28 00:03:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.44 Mbit/s
95th percentile per-packet one-way delay: 87.332 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.44 Mbit/s
95th percentile per-packet one-way delay: 87.332 ms
Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-08-27 22:20:04

End at: 2018-08-27 22:20:34

Local clock offset: 3.853 ms

Remote clock offset: 9.151 ms

Below is generated by plot.py at 2018-08-28 00:03:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.57 Mbit/s

95th percentile per-packet one-way delay: 87.220 ms

Loss rate: 0.15%

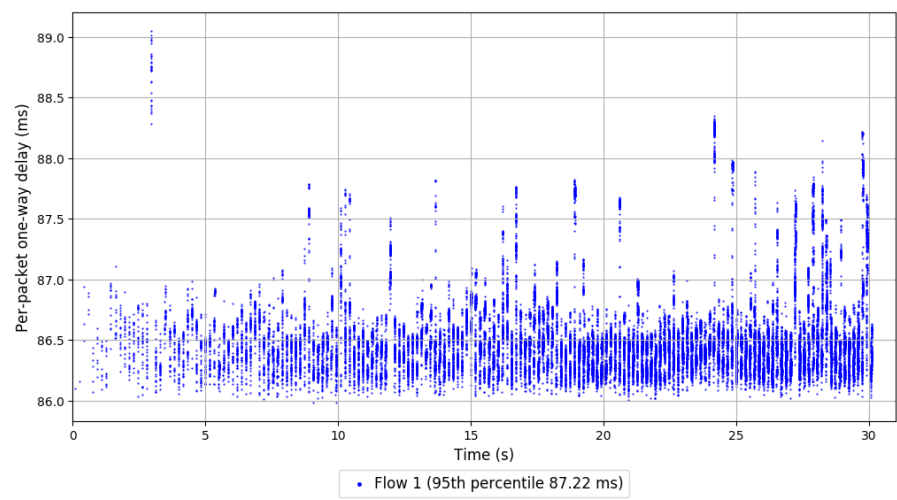
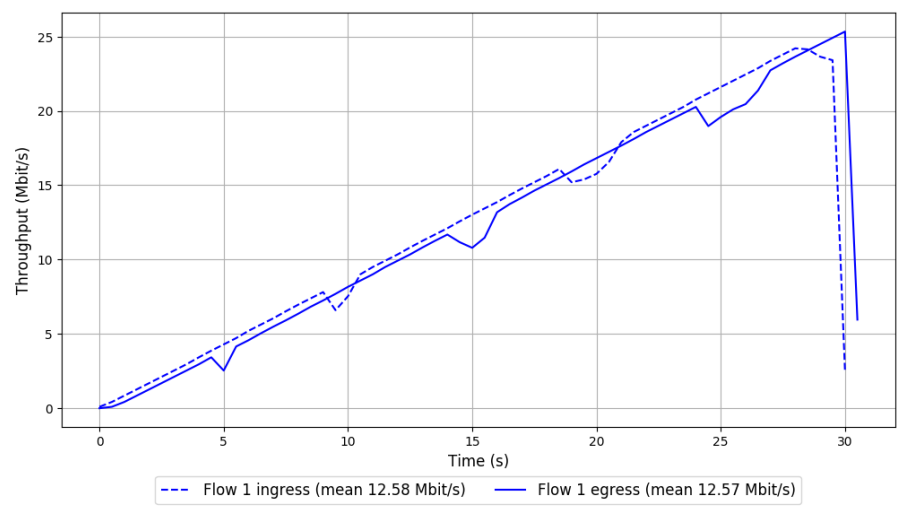
-- Flow 1:

Average throughput: 12.57 Mbit/s

95th percentile per-packet one-way delay: 87.220 ms

Loss rate: 0.15%

Run 6: Report of LEDBAT — Data Link

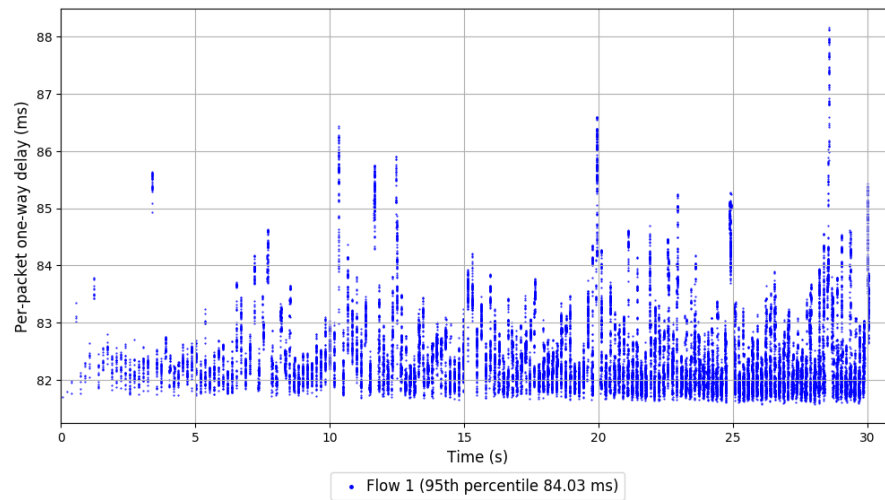
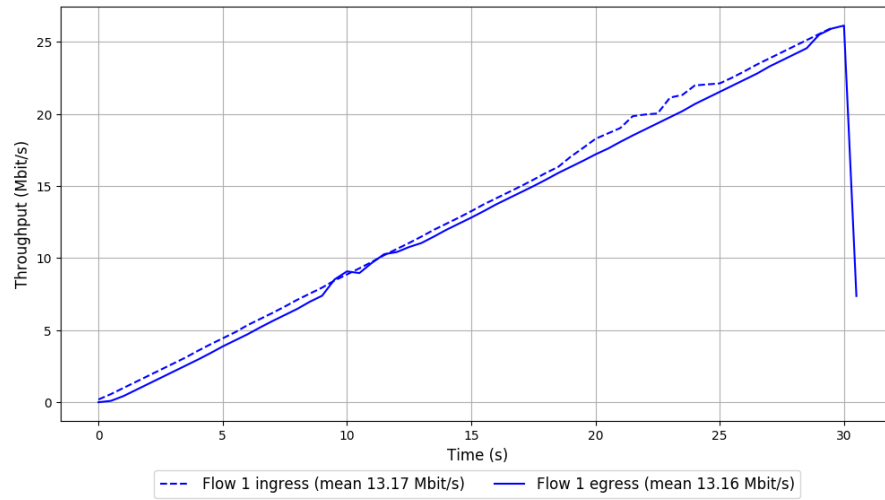


Run 7: Statistics of LEDBAT

Start at: 2018-08-27 22:39:43
End at: 2018-08-27 22:40:13
Local clock offset: 1.475 ms
Remote clock offset: 11.111 ms

Below is generated by plot.py at 2018-08-28 00:03:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.16 Mbit/s
95th percentile per-packet one-way delay: 84.033 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.16 Mbit/s
95th percentile per-packet one-way delay: 84.033 ms
Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link

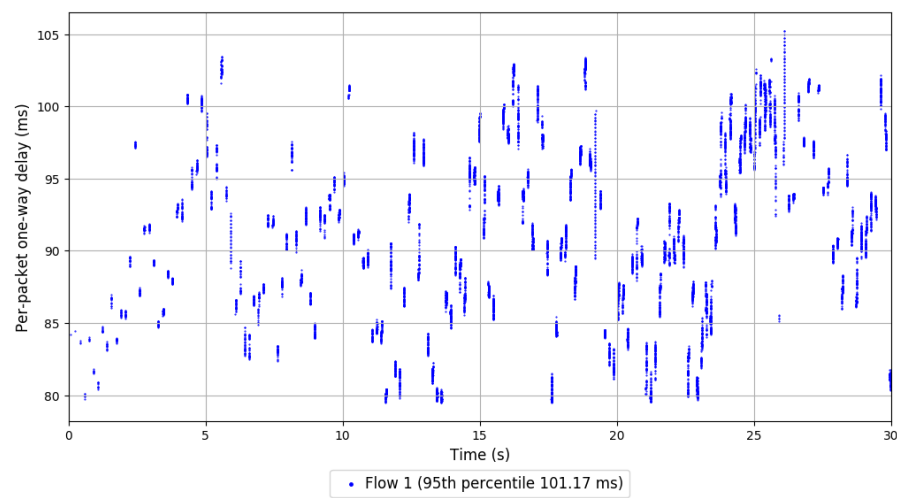
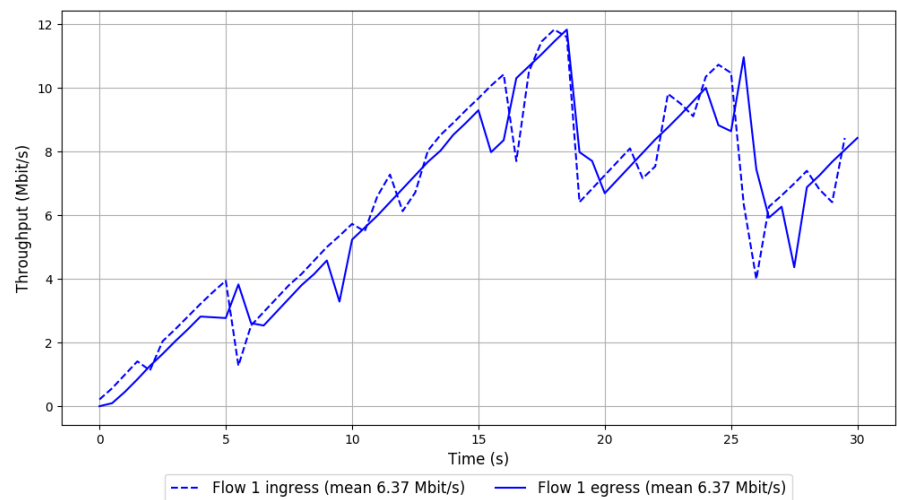


Run 8: Statistics of LEDBAT

Start at: 2018-08-27 22:59:20
End at: 2018-08-27 22:59:50
Local clock offset: 0.47 ms
Remote clock offset: 12.178 ms

Below is generated by plot.py at 2018-08-28 00:03:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.37 Mbit/s
95th percentile per-packet one-way delay: 101.167 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 6.37 Mbit/s
95th percentile per-packet one-way delay: 101.167 ms
Loss rate: 0.07%

Run 8: Report of LEDBAT — Data Link

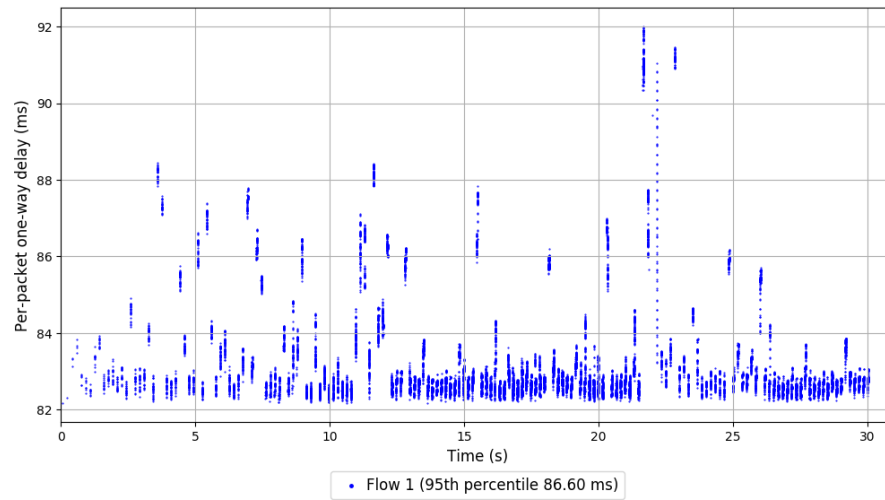
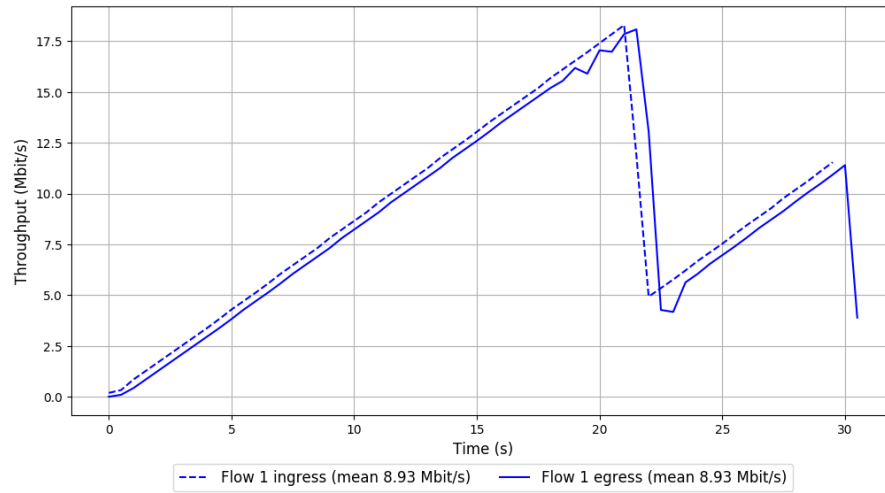


Run 9: Statistics of LEDBAT

Start at: 2018-08-27 23:18:48
End at: 2018-08-27 23:19:18
Local clock offset: -0.148 ms
Remote clock offset: 12.957 ms

Below is generated by plot.py at 2018-08-28 00:03:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 8.93 Mbit/s
95th percentile per-packet one-way delay: 86.596 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 8.93 Mbit/s
95th percentile per-packet one-way delay: 86.596 ms
Loss rate: 0.01%

Run 9: Report of LEDBAT — Data Link

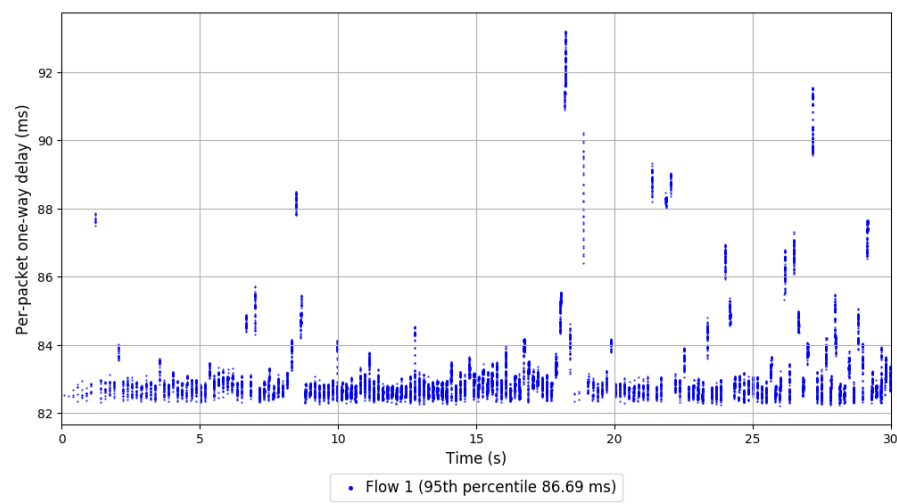
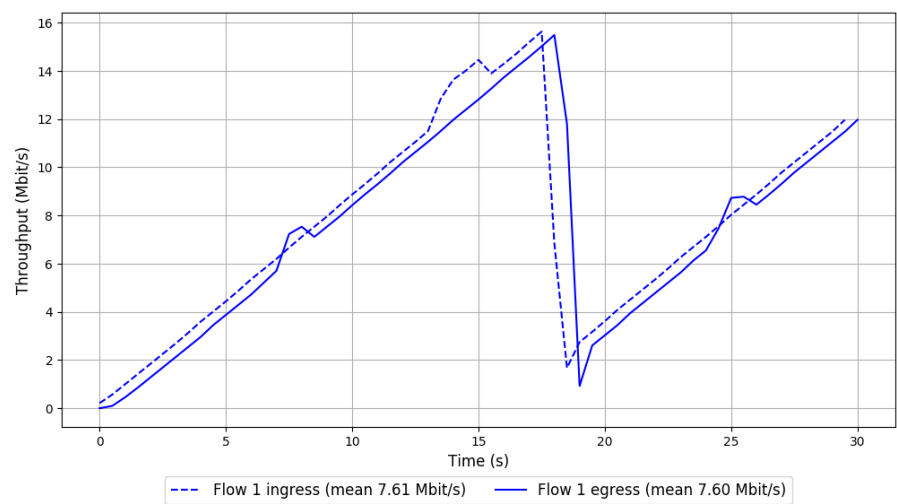


Run 10: Statistics of LEDBAT

Start at: 2018-08-27 23:38:27
End at: 2018-08-27 23:38:57
Local clock offset: -1.949 ms
Remote clock offset: 12.195 ms

Below is generated by plot.py at 2018-08-28 00:03:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.60 Mbit/s
95th percentile per-packet one-way delay: 86.694 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 7.60 Mbit/s
95th percentile per-packet one-way delay: 86.694 ms
Loss rate: 0.05%

Run 10: Report of LEDBAT — Data Link

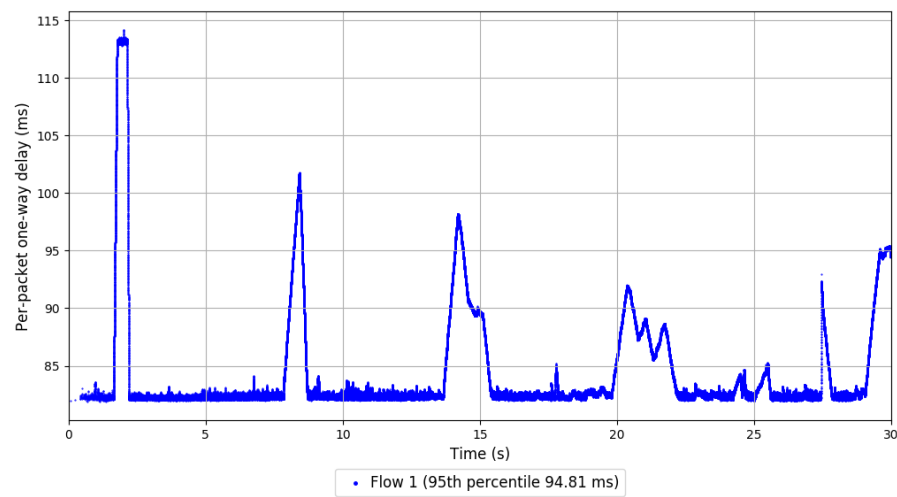
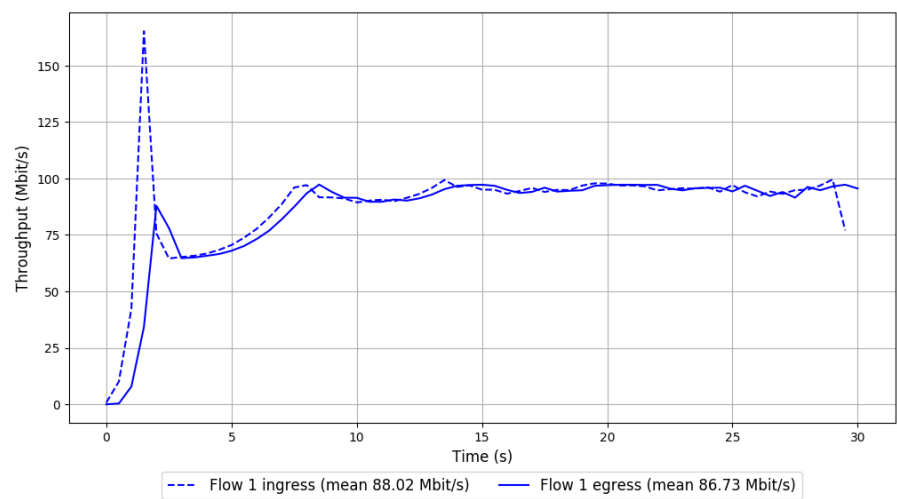


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-08-27 20:52:32
End at: 2018-08-27 20:53:02
Local clock offset: 4.366 ms
Remote clock offset: 5.857 ms

# Below is generated by plot.py at 2018-08-28 00:04:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.73 Mbit/s
95th percentile per-packet one-way delay: 94.814 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 86.73 Mbit/s
95th percentile per-packet one-way delay: 94.814 ms
Loss rate: 1.42%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-08-27 21:12:07

End at: 2018-08-27 21:12:37

Local clock offset: 2.906 ms

Remote clock offset: 9.344 ms

Below is generated by plot.py at 2018-08-28 00:04:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.60 Mbit/s

95th percentile per-packet one-way delay: 93.558 ms

Loss rate: 1.63%

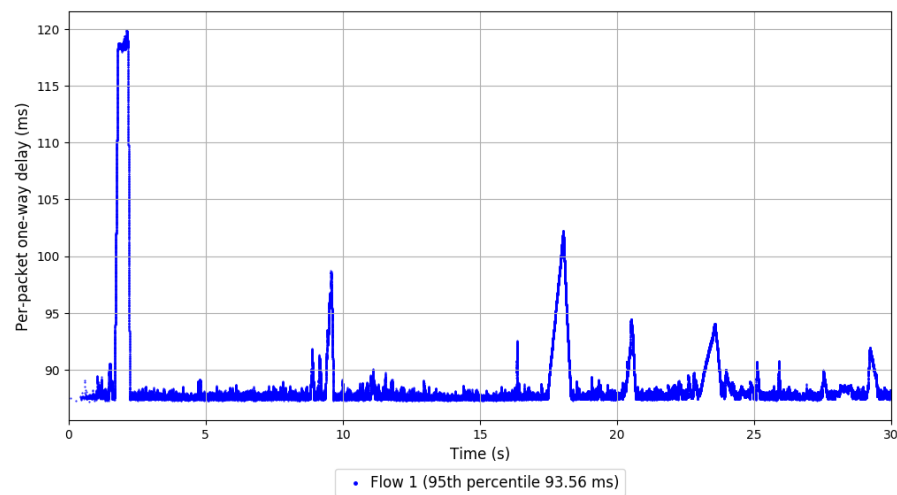
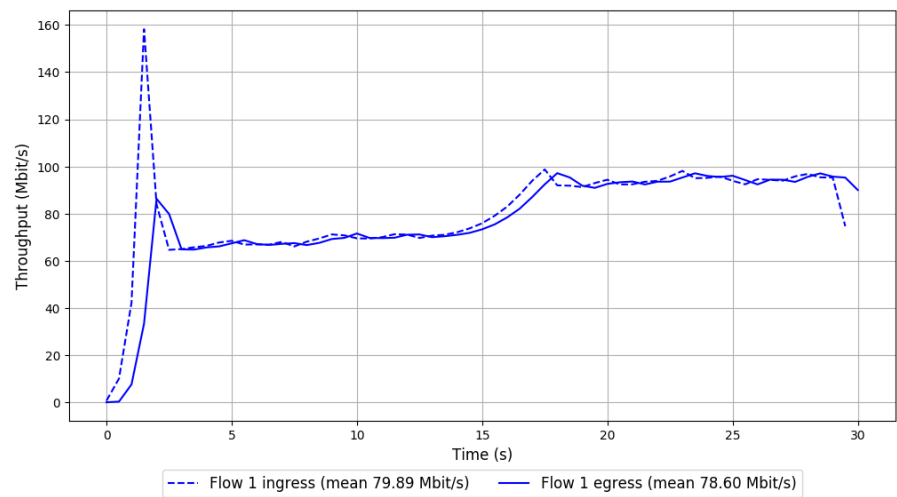
-- Flow 1:

Average throughput: 78.60 Mbit/s

95th percentile per-packet one-way delay: 93.558 ms

Loss rate: 1.63%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-08-27 21:31:41

End at: 2018-08-27 21:32:11

Local clock offset: 3.438 ms

Remote clock offset: 8.287 ms

Below is generated by plot.py at 2018-08-28 00:04:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.15 Mbit/s

95th percentile per-packet one-way delay: 95.610 ms

Loss rate: 1.52%

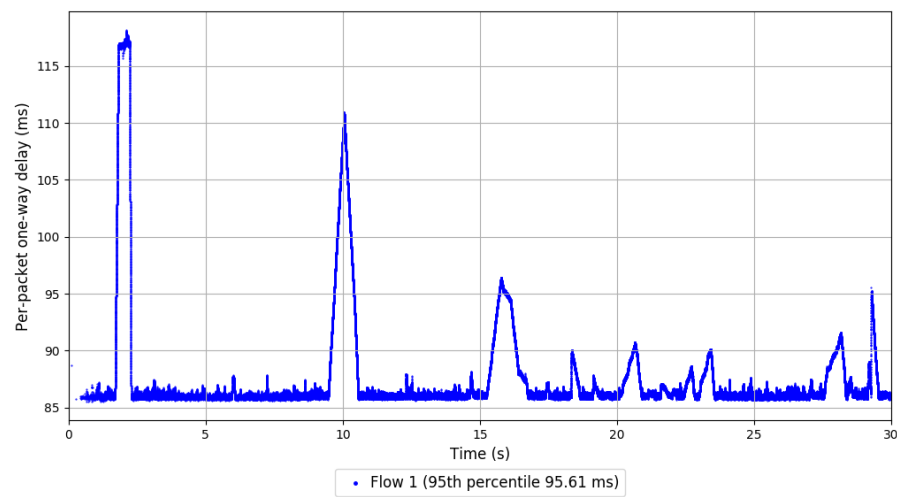
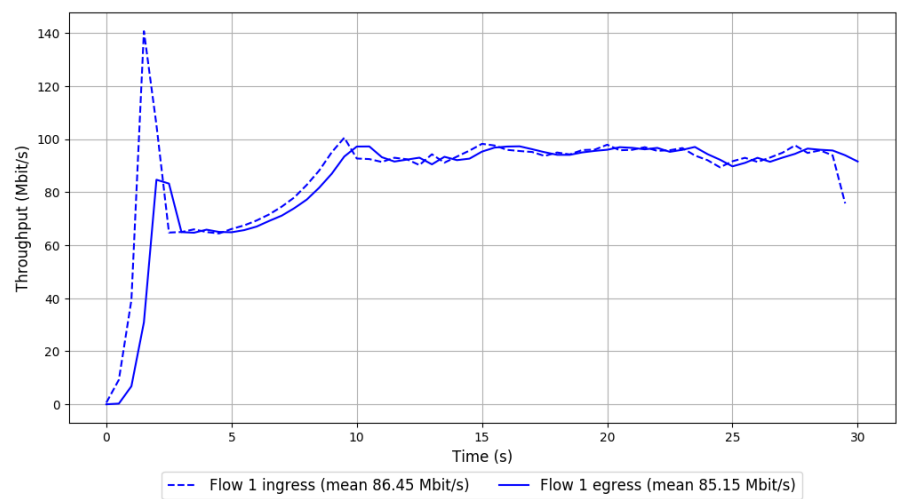
-- Flow 1:

Average throughput: 85.15 Mbit/s

95th percentile per-packet one-way delay: 95.610 ms

Loss rate: 1.52%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-08-27 21:51:18

End at: 2018-08-27 21:51:48

Local clock offset: 0.583 ms

Remote clock offset: 15.796 ms

Below is generated by plot.py at 2018-08-28 00:04:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.63 Mbit/s

95th percentile per-packet one-way delay: 110.314 ms

Loss rate: 1.46%

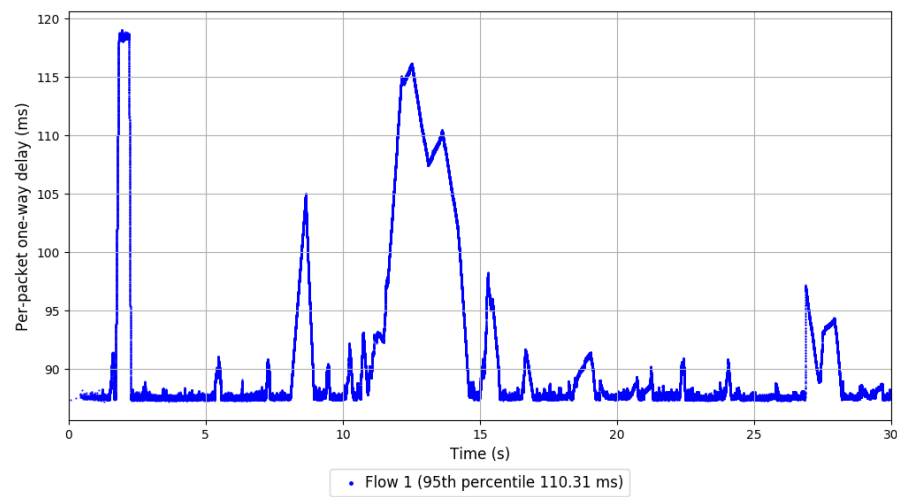
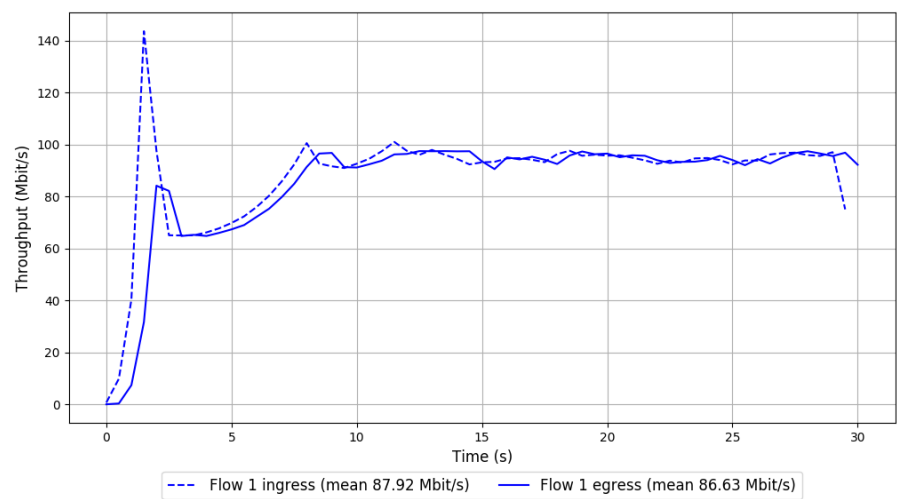
-- Flow 1:

Average throughput: 86.63 Mbit/s

95th percentile per-packet one-way delay: 110.314 ms

Loss rate: 1.46%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-08-27 22:10:52

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

Local clock offset: 2.805 ms

Remote clock offset: 14.454 ms

Below is generated by plot.py at 2018-08-28 00:04:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.07 Mbit/s

95th percentile per-packet one-way delay: 97.373 ms

Loss rate: 1.44%

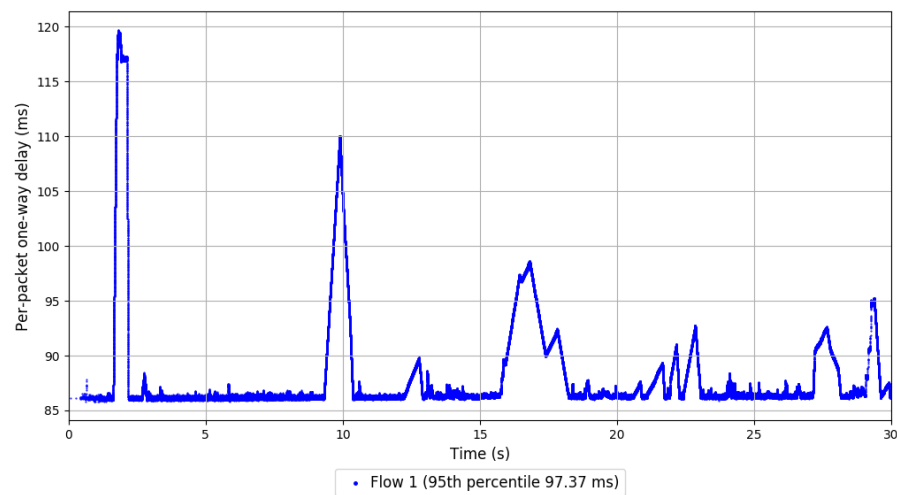
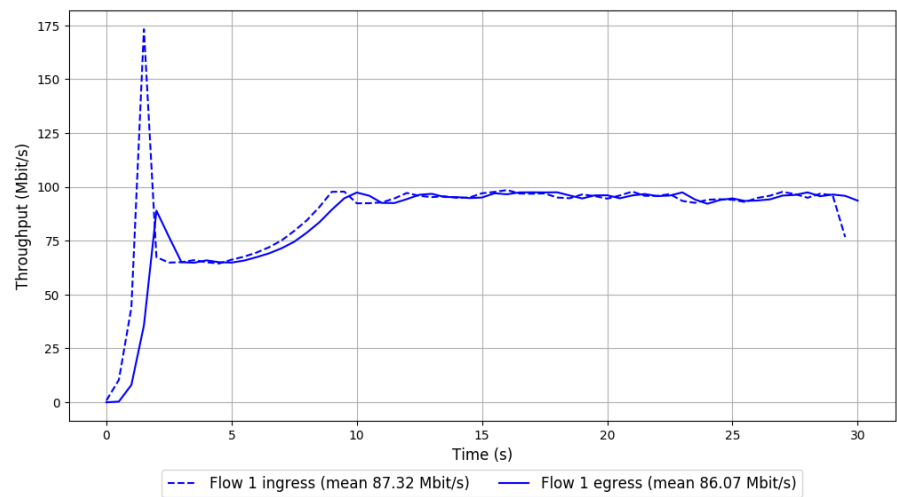
-- Flow 1:

Average throughput: 86.07 Mbit/s

95th percentile per-packet one-way delay: 97.373 ms

Loss rate: 1.44%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

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

End at: 2018-08-27 22:30:57

Local clock offset: 5.426 ms

Remote clock offset: 14.124 ms

Below is generated by plot.py at 2018-08-28 00:04:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.29 Mbit/s

95th percentile per-packet one-way delay: 108.657 ms

Loss rate: 1.60%

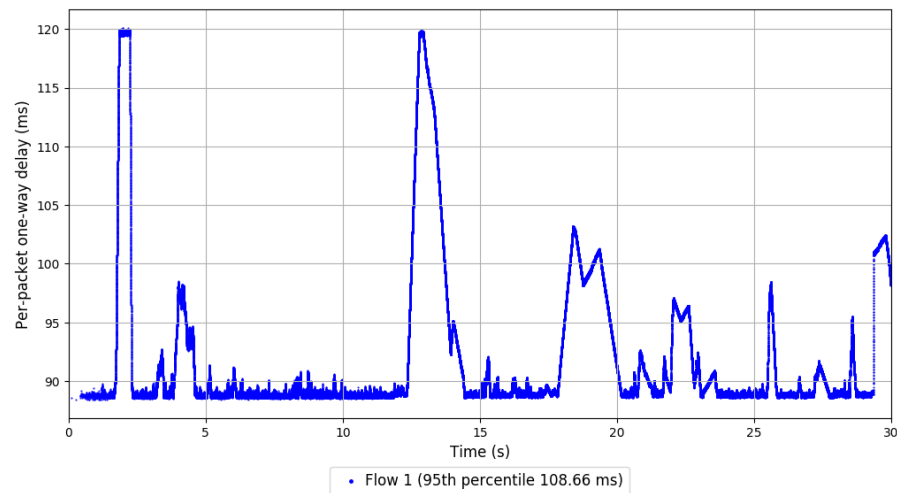
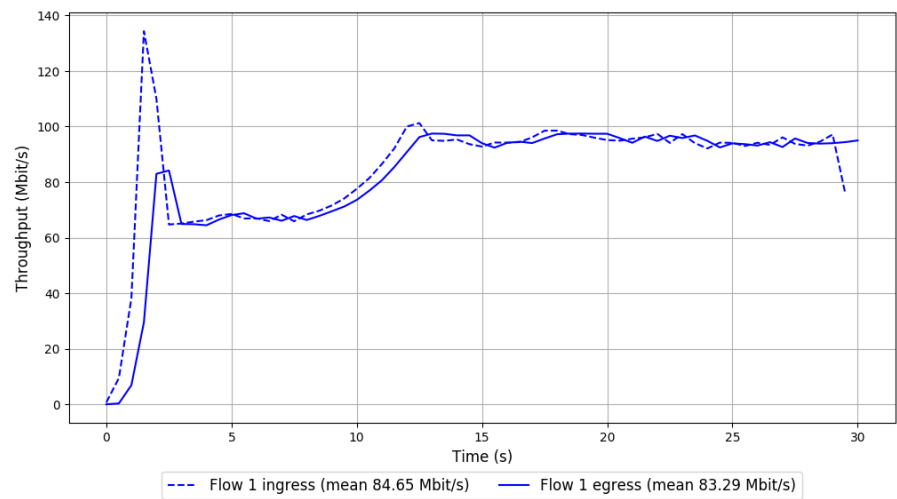
-- Flow 1:

Average throughput: 83.29 Mbit/s

95th percentile per-packet one-way delay: 108.657 ms

Loss rate: 1.60%

Run 6: Report of PCC-Allegro — Data Link

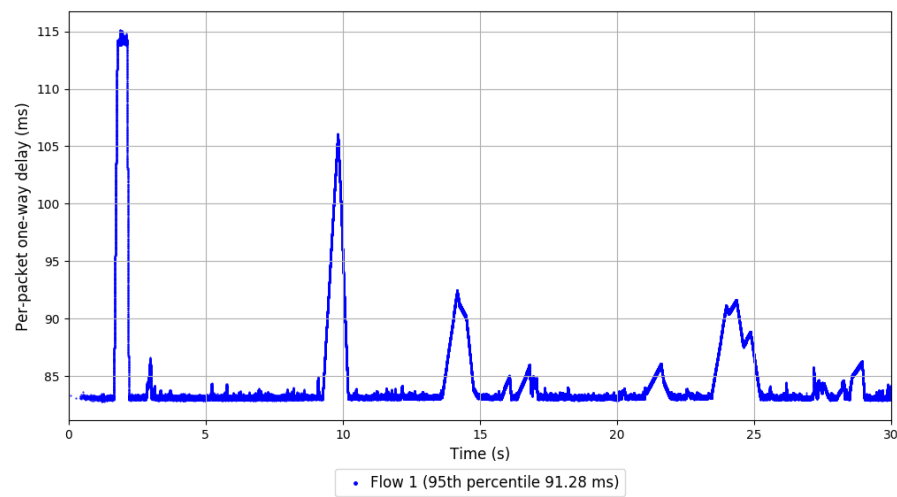
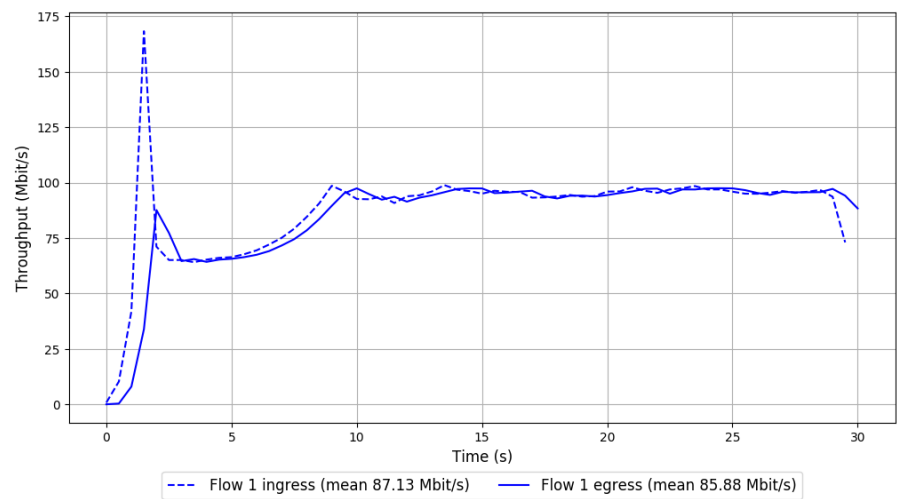


Run 7: Statistics of PCC-Allegro

Start at: 2018-08-27 22:50:09
End at: 2018-08-27 22:50:39
Local clock offset: 0.113 ms
Remote clock offset: 12.148 ms

Below is generated by plot.py at 2018-08-28 00:04:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 85.88 Mbit/s
95th percentile per-packet one-way delay: 91.275 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 85.88 Mbit/s
95th percentile per-packet one-way delay: 91.275 ms
Loss rate: 1.43%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-08-27 23:09:40

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

Local clock offset: 0.092 ms

Remote clock offset: 13.22 ms

Below is generated by plot.py at 2018-08-28 00:04:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.86 Mbit/s

95th percentile per-packet one-way delay: 95.320 ms

Loss rate: 1.44%

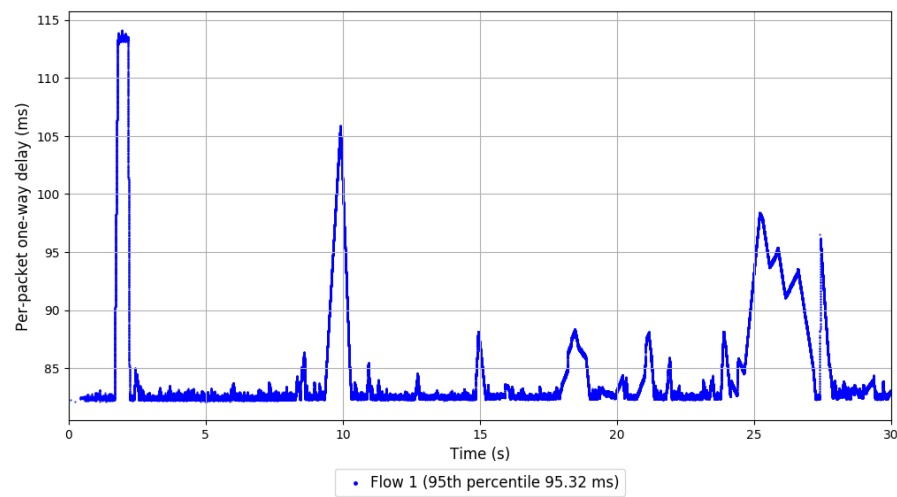
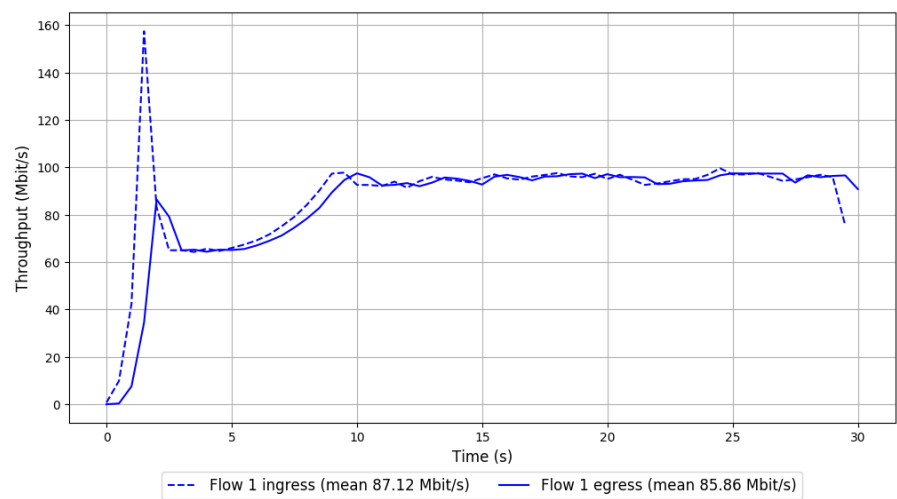
-- Flow 1:

Average throughput: 85.86 Mbit/s

95th percentile per-packet one-way delay: 95.320 ms

Loss rate: 1.44%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-08-27 23:29:13

End at: 2018-08-27 23:29:43

Local clock offset: 0.416 ms

Remote clock offset: 11.17 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.93 Mbit/s

95th percentile per-packet one-way delay: 88.746 ms

Loss rate: 1.95%

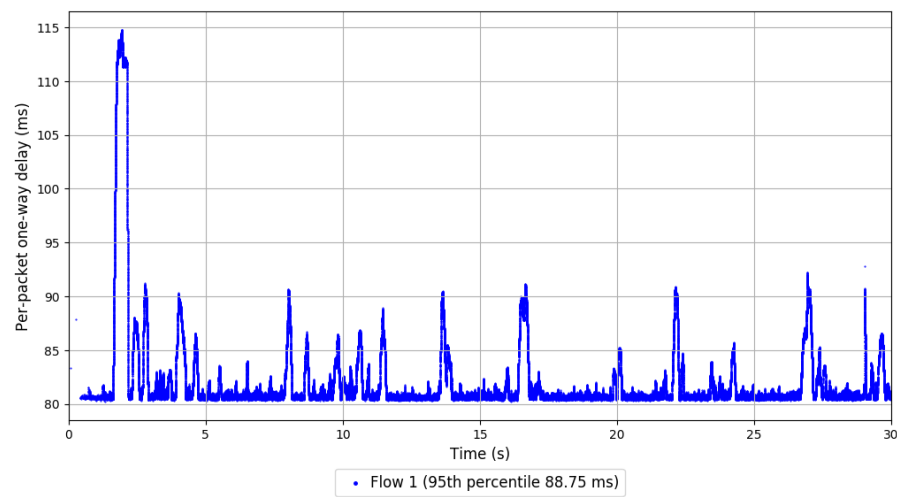
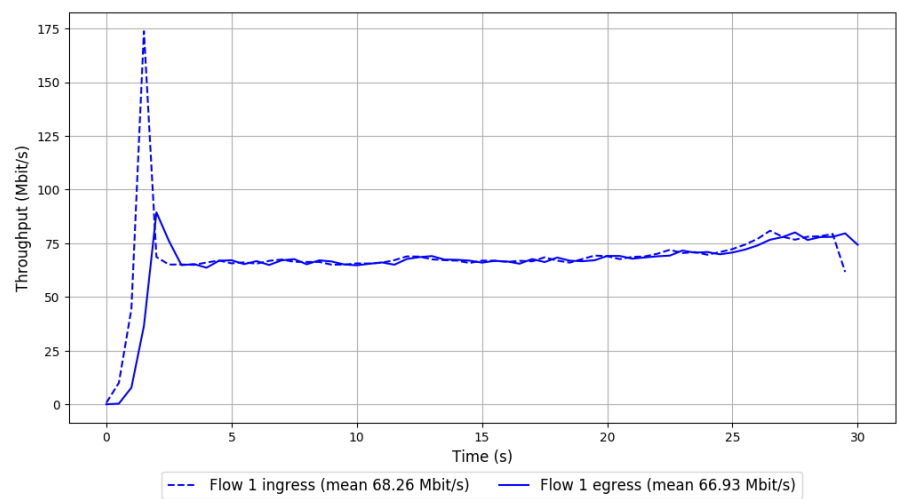
-- Flow 1:

Average throughput: 66.93 Mbit/s

95th percentile per-packet one-way delay: 88.746 ms

Loss rate: 1.95%

Run 9: Report of PCC-Allegro — Data Link

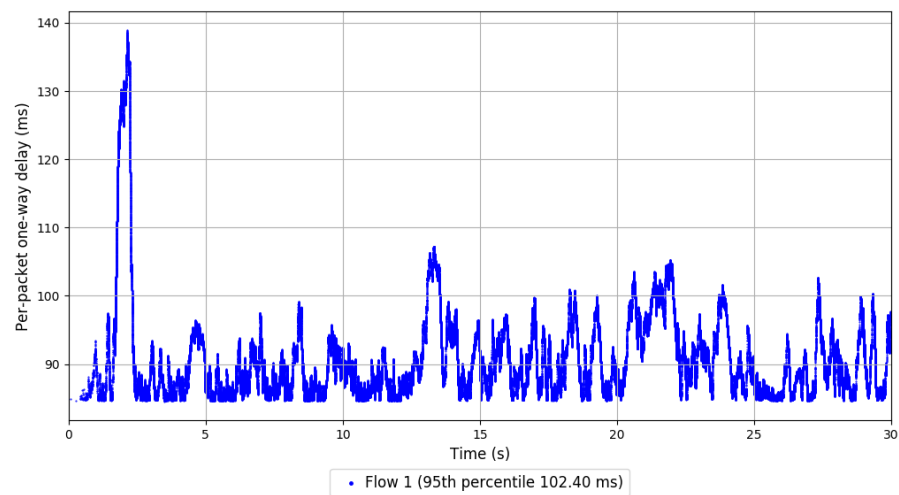
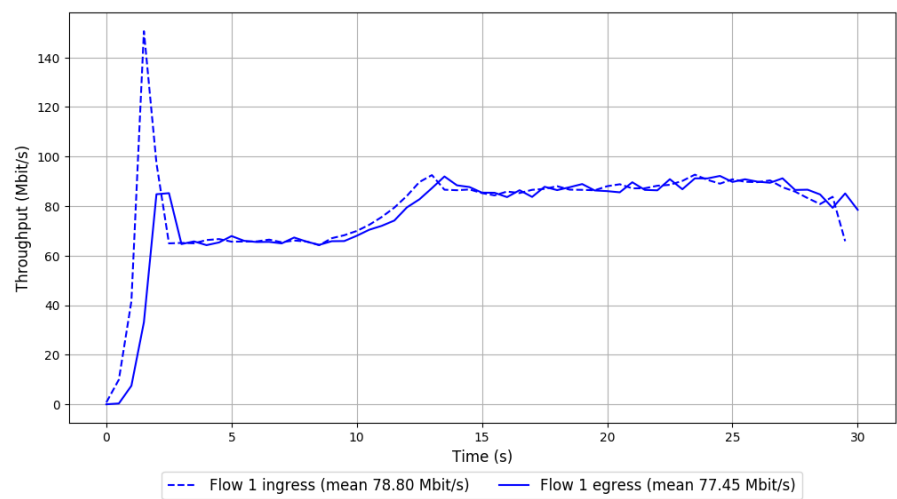


Run 10: Statistics of PCC-Allegro

Start at: 2018-08-27 23:48:55
End at: 2018-08-27 23:49:25
Local clock offset: -3.369 ms
Remote clock offset: 10.923 ms

Below is generated by plot.py at 2018-08-28 00:05:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.45 Mbit/s
95th percentile per-packet one-way delay: 102.402 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 77.45 Mbit/s
95th percentile per-packet one-way delay: 102.402 ms
Loss rate: 1.71%

Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

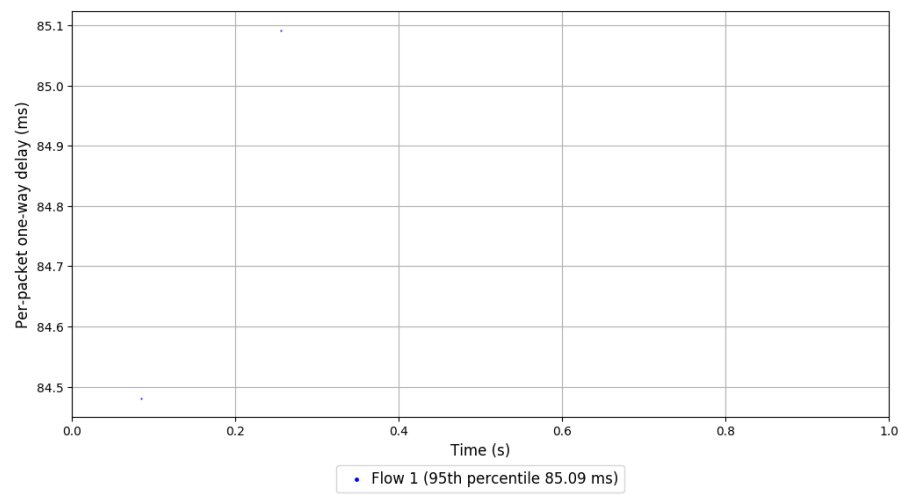
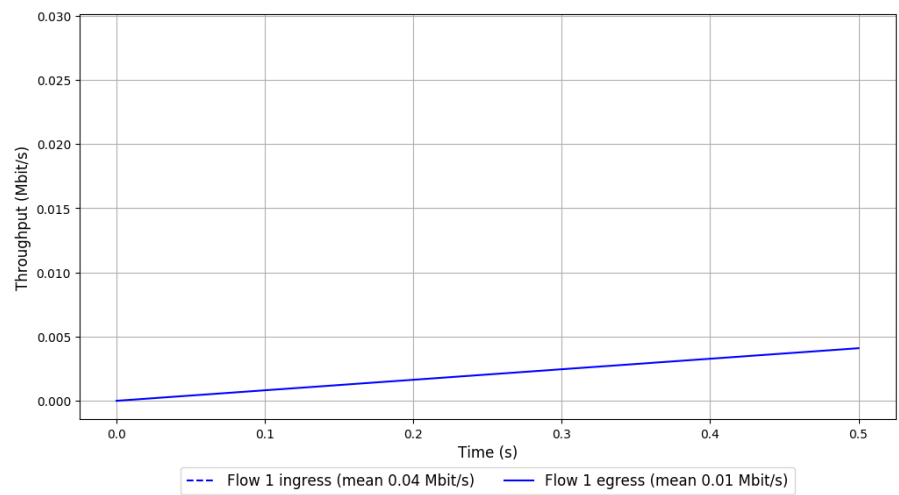
Start at: 2018-08-27 20:41:02

End at: 2018-08-27 20:41:32

Local clock offset: 5.345 ms

Remote clock offset: 0.606 ms

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-08-27 21:00:36

End at: 2018-08-27 21:01:06

Local clock offset: 4.601 ms

Remote clock offset: 7.933 ms

Below is generated by plot.py at 2018-08-28 00:05:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.48 Mbit/s

95th percentile per-packet one-way delay: 83.919 ms

Loss rate: 57.78%

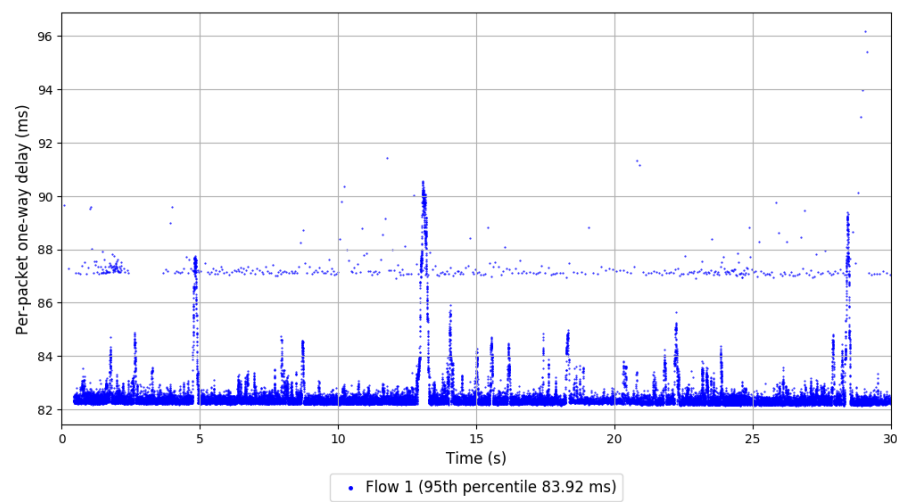
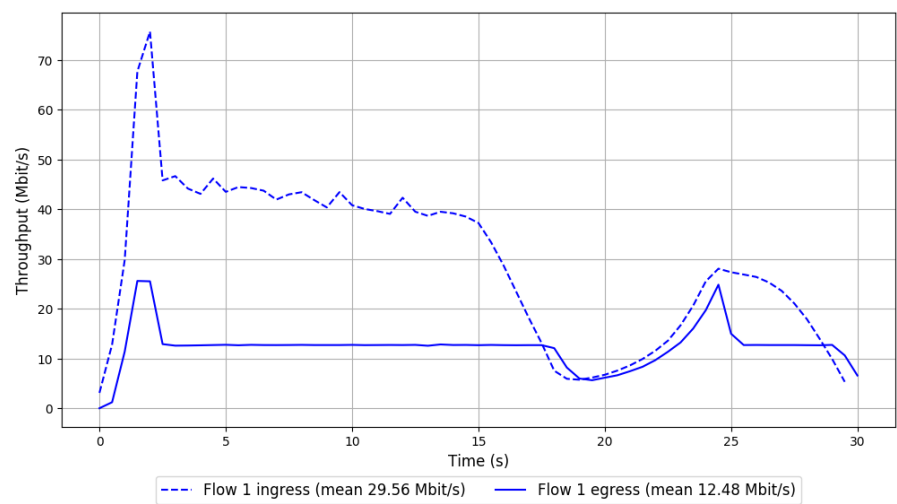
-- Flow 1:

Average throughput: 12.48 Mbit/s

95th percentile per-packet one-way delay: 83.919 ms

Loss rate: 57.78%

Run 2: Report of PCC-Expr — Data Link

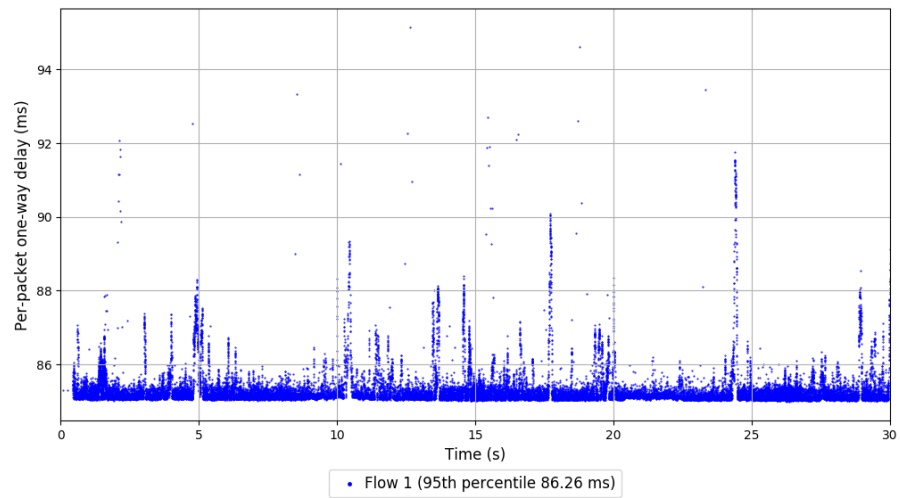
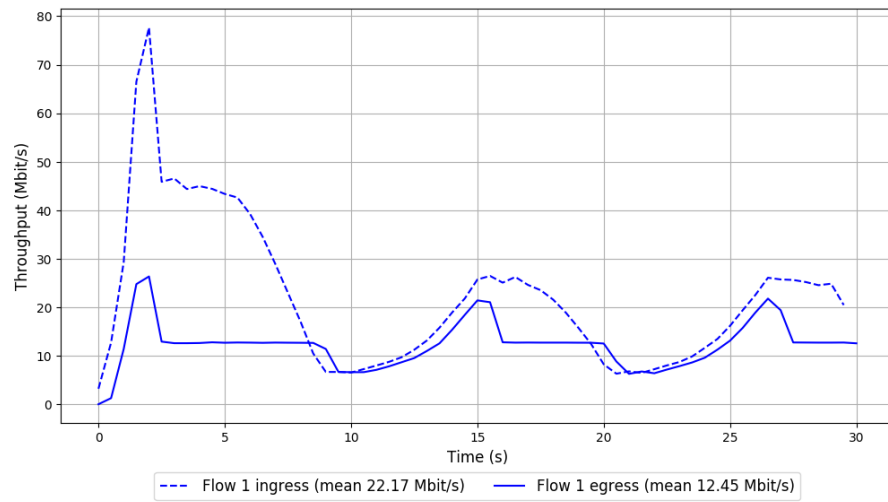


Run 3: Statistics of PCC-Expr

Start at: 2018-08-27 21:20:09
End at: 2018-08-27 21:20:39
Local clock offset: 2.589 ms
Remote clock offset: 12.545 ms

Below is generated by plot.py at 2018-08-28 00:05:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.45 Mbit/s
95th percentile per-packet one-way delay: 86.262 ms
Loss rate: 43.85%
-- Flow 1:
Average throughput: 12.45 Mbit/s
95th percentile per-packet one-way delay: 86.262 ms
Loss rate: 43.85%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-08-27 21:39:44

End at: 2018-08-27 21:40:14

Local clock offset: 1.269 ms

Remote clock offset: 9.352 ms

Below is generated by plot.py at 2018-08-28 00:05:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.46 Mbit/s

95th percentile per-packet one-way delay: 85.379 ms

Loss rate: 41.57%

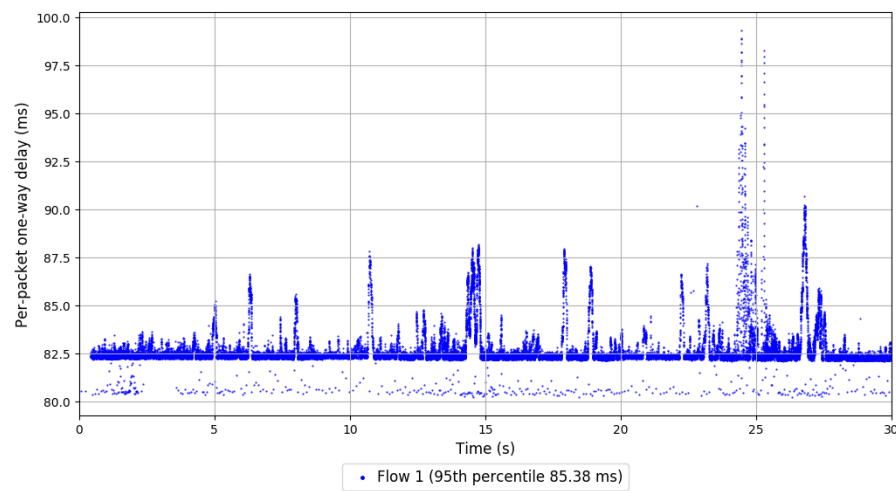
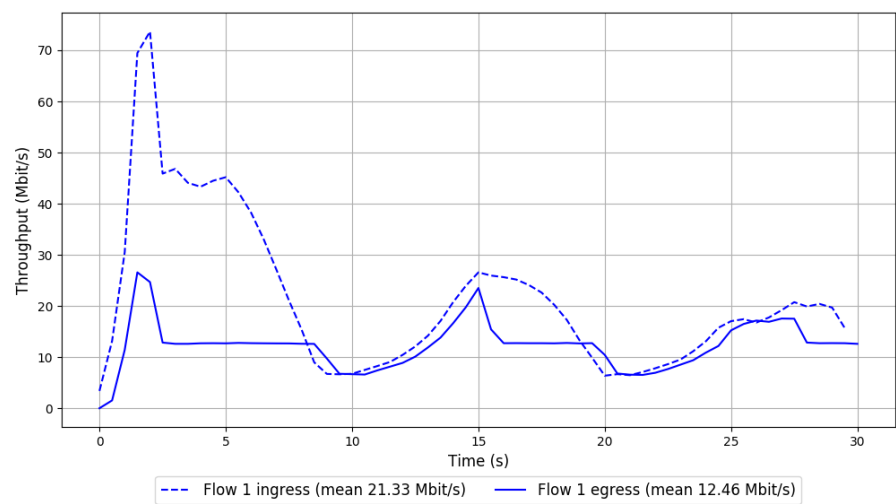
-- Flow 1:

Average throughput: 12.46 Mbit/s

95th percentile per-packet one-way delay: 85.379 ms

Loss rate: 41.57%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

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

End at: 2018-08-27 21:59:51

Local clock offset: -0.262 ms

Remote clock offset: 10.76 ms

Below is generated by plot.py at 2018-08-28 00:05:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.45 Mbit/s

95th percentile per-packet one-way delay: 83.133 ms

Loss rate: 44.65%

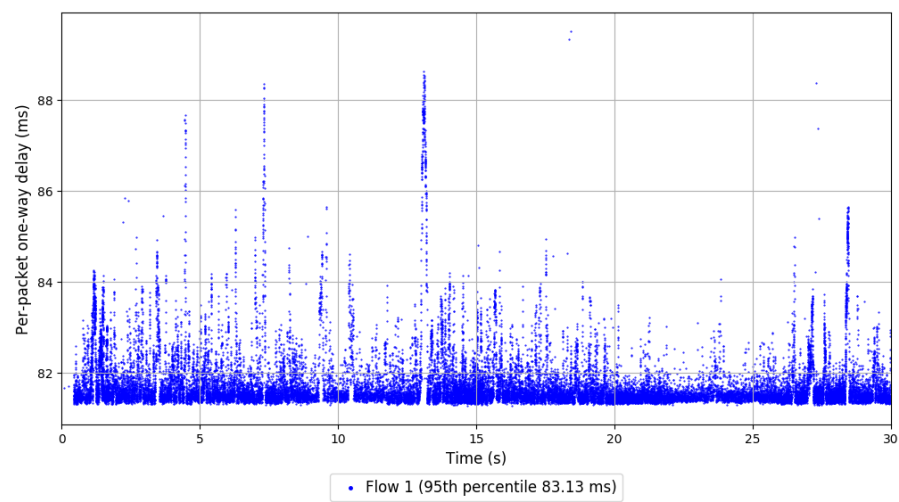
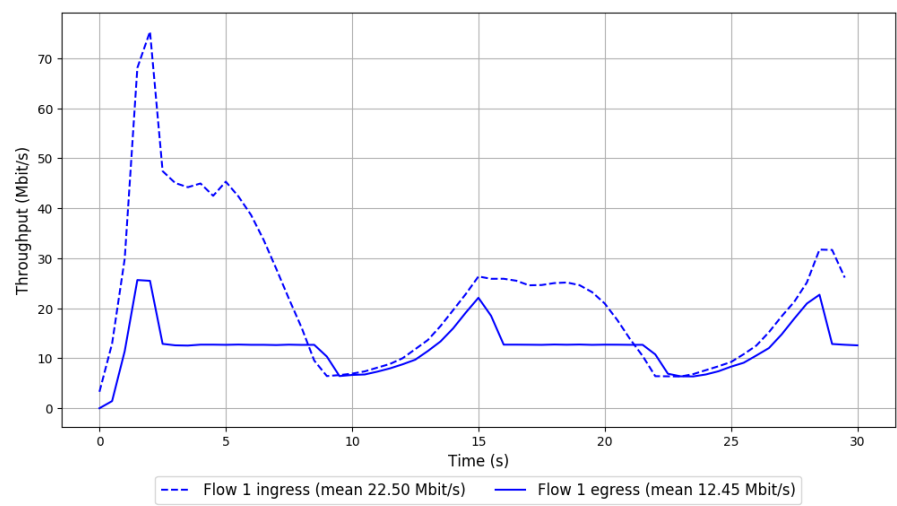
-- Flow 1:

Average throughput: 12.45 Mbit/s

95th percentile per-packet one-way delay: 83.133 ms

Loss rate: 44.65%

Run 5: Report of PCC-Expr — Data Link

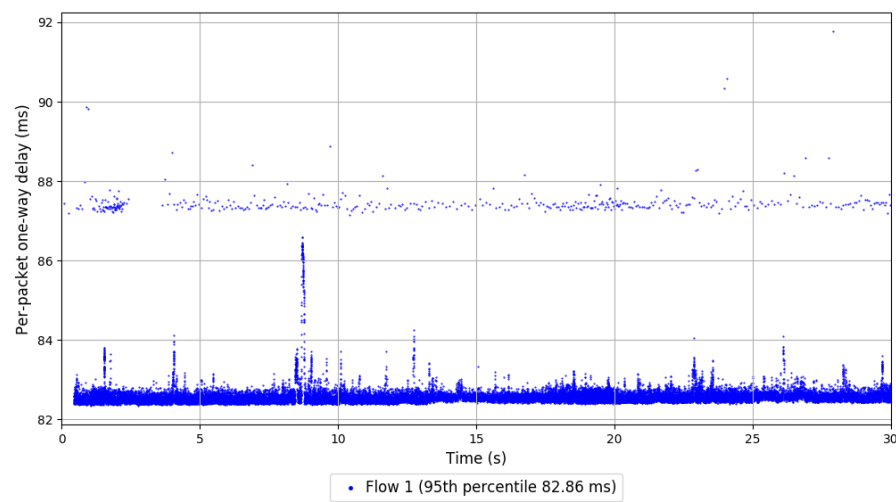
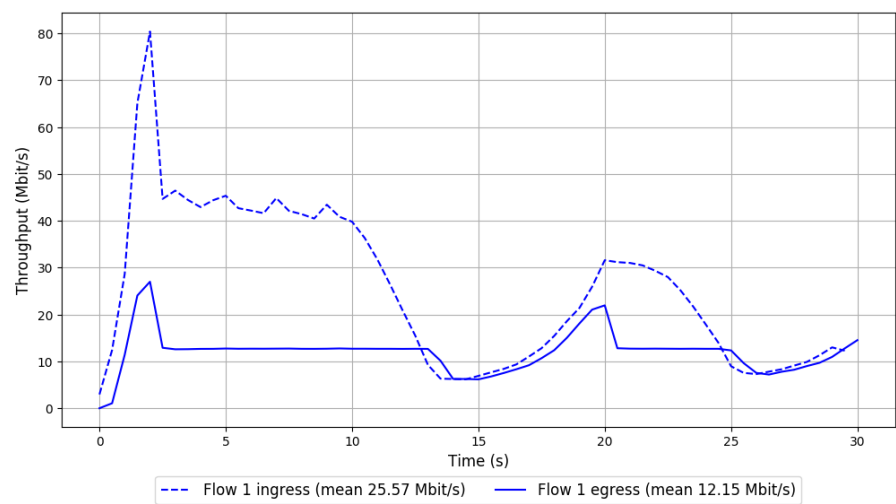


Run 6: Statistics of PCC-Expr

Start at: 2018-08-27 22:18:56
End at: 2018-08-27 22:19:26
Local clock offset: 3.737 ms
Remote clock offset: 10.326 ms

Below is generated by plot.py at 2018-08-28 00:05:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.15 Mbit/s
95th percentile per-packet one-way delay: 82.858 ms
Loss rate: 52.48%
-- Flow 1:
Average throughput: 12.15 Mbit/s
95th percentile per-packet one-way delay: 82.858 ms
Loss rate: 52.48%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

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

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

Local clock offset: 2.484 ms

Remote clock offset: 9.786 ms

Below is generated by plot.py at 2018-08-28 00:05:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.46 Mbit/s

95th percentile per-packet one-way delay: 81.400 ms

Loss rate: 45.05%

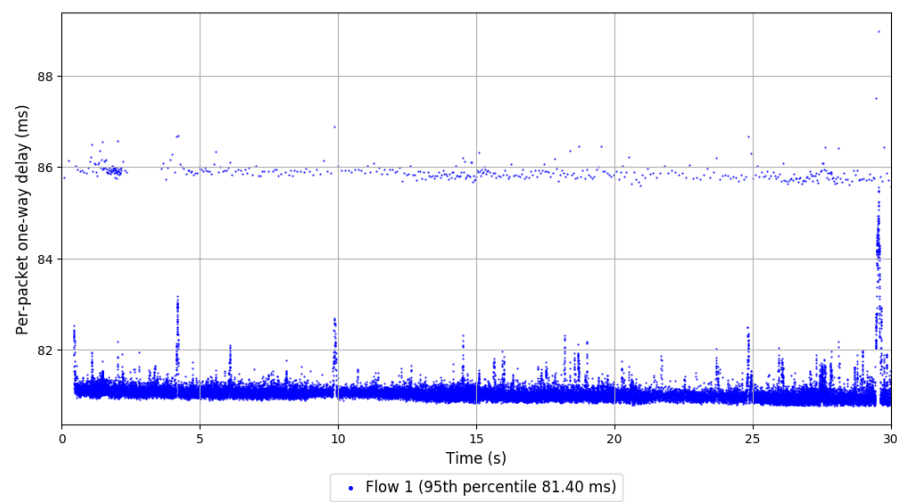
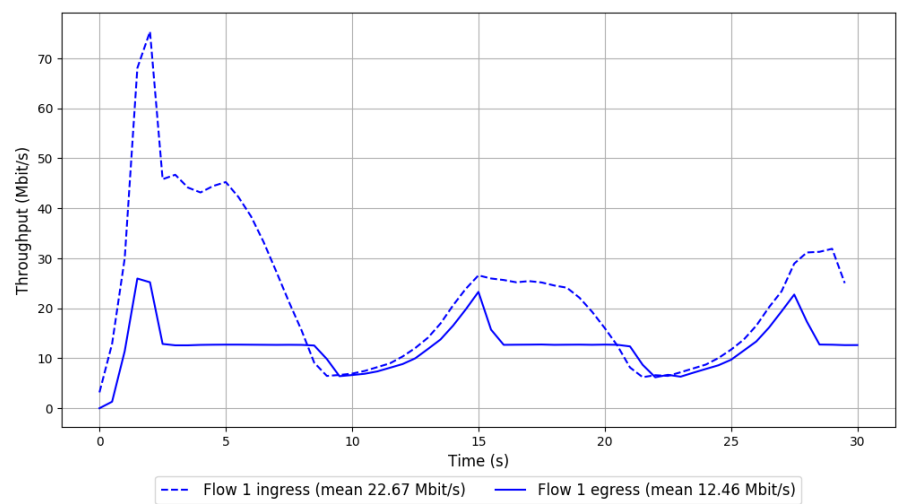
-- Flow 1:

Average throughput: 12.46 Mbit/s

95th percentile per-packet one-way delay: 81.400 ms

Loss rate: 45.05%

Run 7: Report of PCC-Expr — Data Link

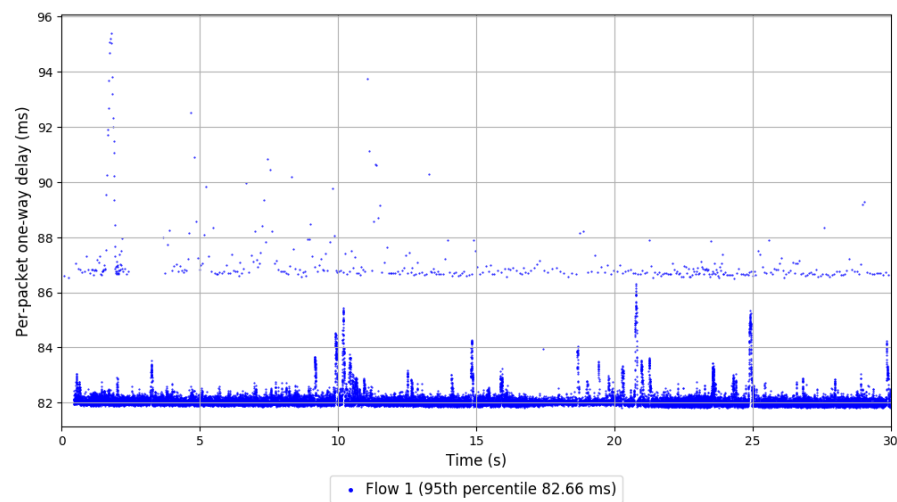
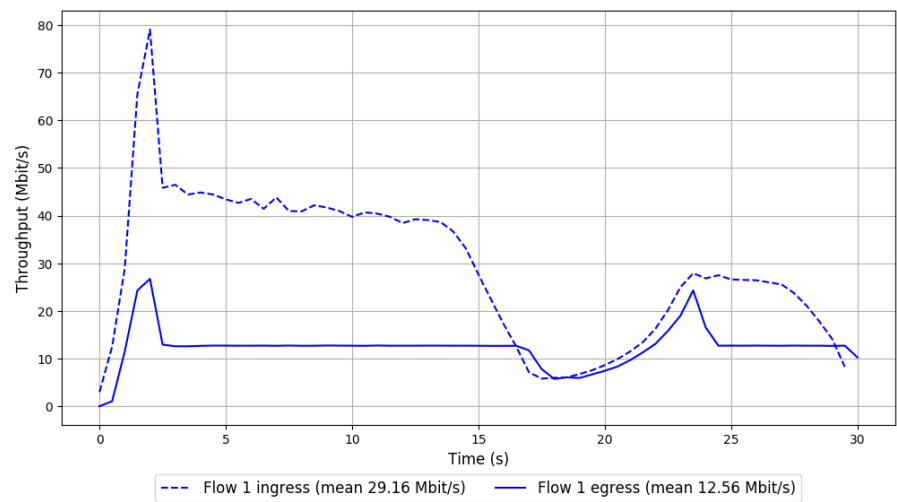


Run 8: Statistics of PCC-Expr

Start at: 2018-08-27 22:58:12
End at: 2018-08-27 22:58:42
Local clock offset: -0.322 ms
Remote clock offset: 11.907 ms

Below is generated by plot.py at 2018-08-28 00:05:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.56 Mbit/s
95th percentile per-packet one-way delay: 82.663 ms
Loss rate: 56.93%
-- Flow 1:
Average throughput: 12.56 Mbit/s
95th percentile per-packet one-way delay: 82.663 ms
Loss rate: 56.93%

Run 8: Report of PCC-Expr — Data Link

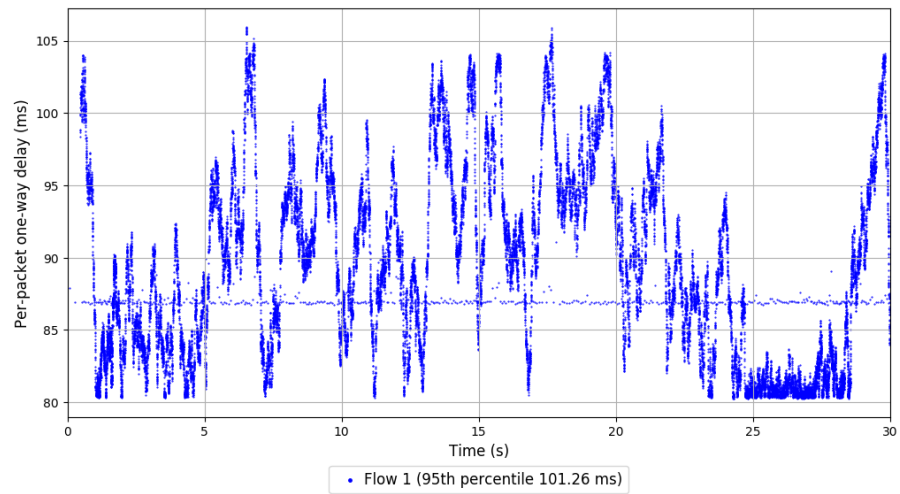
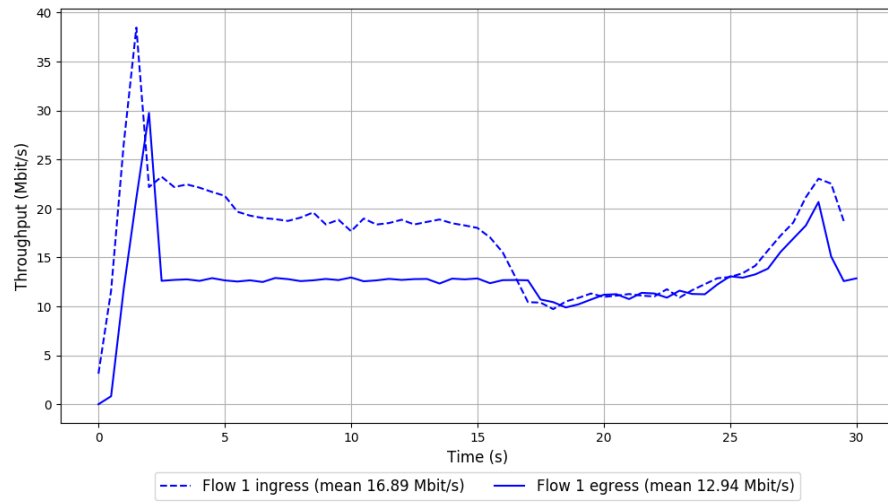


Run 9: Statistics of PCC-Expr

Start at: 2018-08-27 23:17:40
End at: 2018-08-27 23:18:10
Local clock offset: -0.888 ms
Remote clock offset: 11.772 ms

Below is generated by plot.py at 2018-08-28 00:05:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.94 Mbit/s
95th percentile per-packet one-way delay: 101.260 ms
Loss rate: 23.39%
-- Flow 1:
Average throughput: 12.94 Mbit/s
95th percentile per-packet one-way delay: 101.260 ms
Loss rate: 23.39%

Run 9: Report of PCC-Expr — Data Link

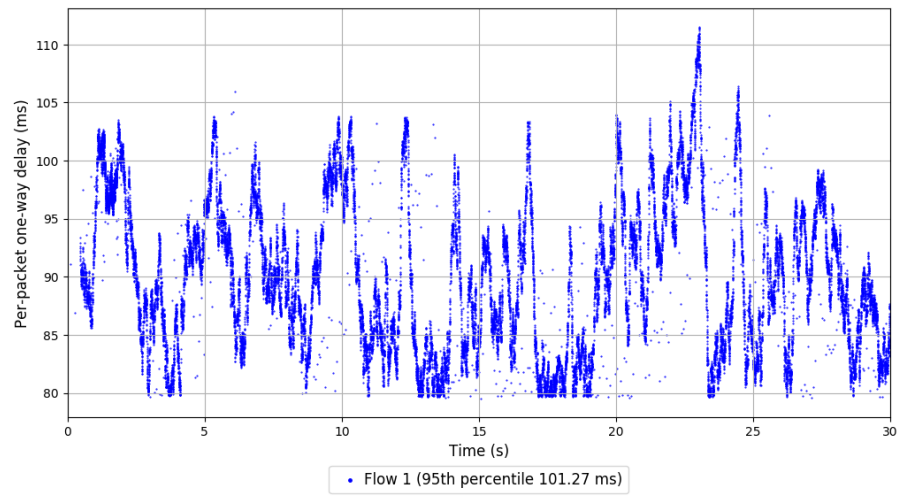
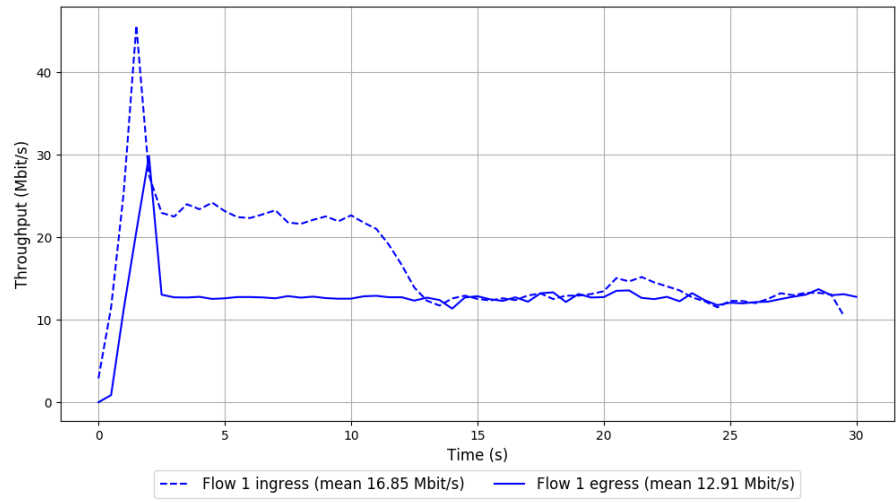


Run 10: Statistics of PCC-Expr

Start at: 2018-08-27 23:37:14
End at: 2018-08-27 23:37:44
Local clock offset: -0.939 ms
Remote clock offset: 12.062 ms

Below is generated by plot.py at 2018-08-28 00:05:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.91 Mbit/s
95th percentile per-packet one-way delay: 101.265 ms
Loss rate: 23.42%
-- Flow 1:
Average throughput: 12.91 Mbit/s
95th percentile per-packet one-way delay: 101.265 ms
Loss rate: 23.42%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-08-27 20:51:22

End at: 2018-08-27 20:51:52

Local clock offset: 5.148 ms

Remote clock offset: 4.404 ms

Below is generated by plot.py at 2018-08-28 00:05:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.07 Mbit/s

95th percentile per-packet one-way delay: 104.766 ms

Loss rate: 0.36%

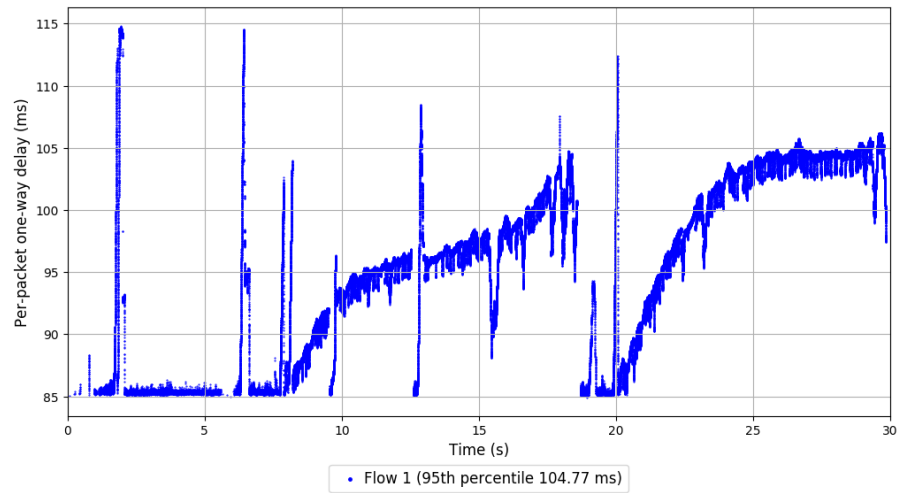
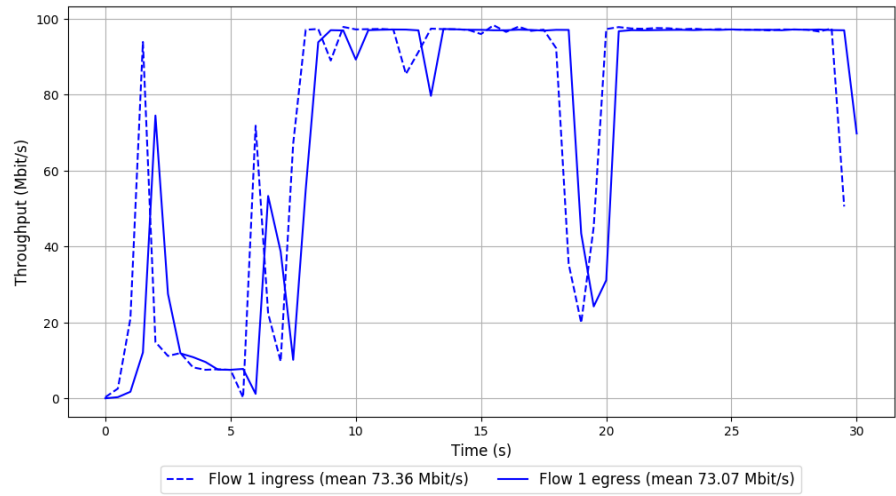
-- Flow 1:

Average throughput: 73.07 Mbit/s

95th percentile per-packet one-way delay: 104.766 ms

Loss rate: 0.36%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-08-27 21:10:57

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

Local clock offset: 3.021 ms

Remote clock offset: 9.187 ms

Below is generated by plot.py at 2018-08-28 00:05:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.59 Mbit/s

95th percentile per-packet one-way delay: 89.465 ms

Loss rate: 0.44%

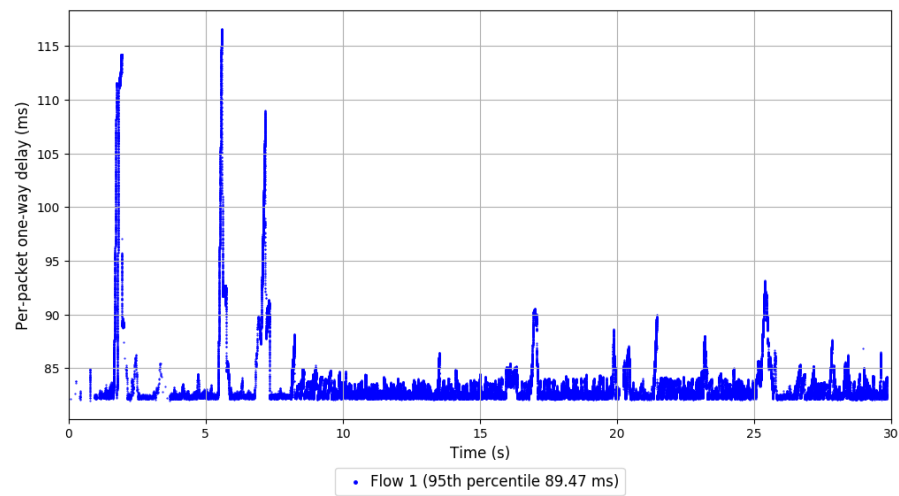
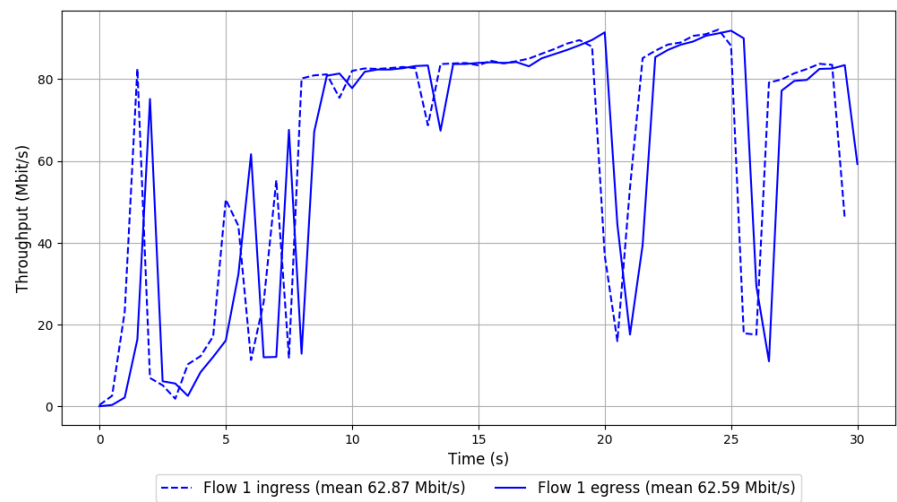
-- Flow 1:

Average throughput: 62.59 Mbit/s

95th percentile per-packet one-way delay: 89.465 ms

Loss rate: 0.44%

Run 2: Report of QUIC Cubic — Data Link

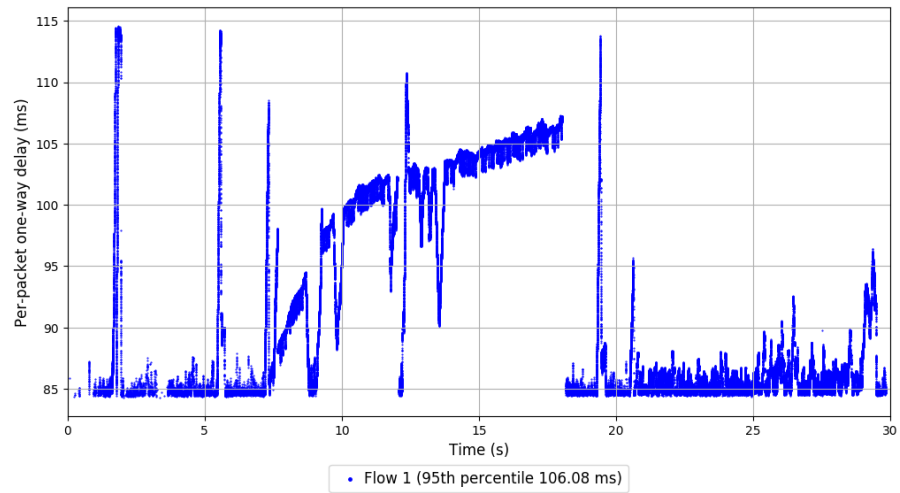
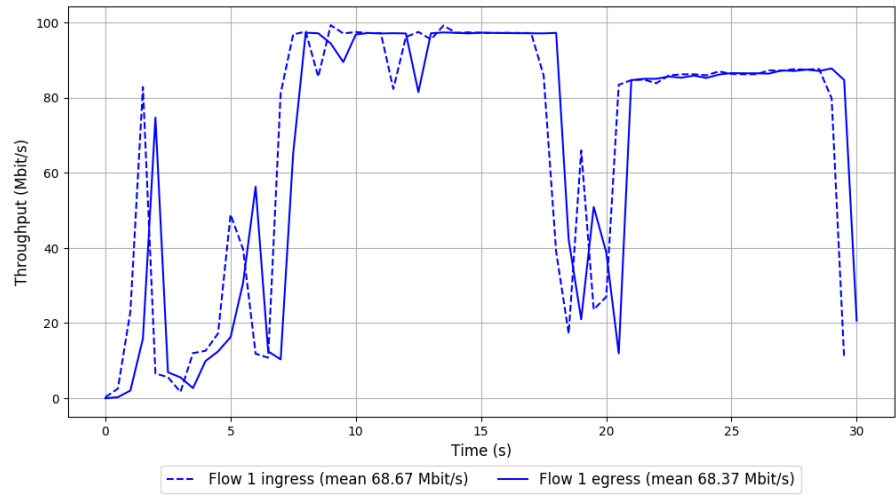


Run 3: Statistics of QUIC Cubic

Start at: 2018-08-27 21:30:31
End at: 2018-08-27 21:31:01
Local clock offset: 2.6 ms
Remote clock offset: 13.451 ms

Below is generated by plot.py at 2018-08-28 00:05:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 68.37 Mbit/s
95th percentile per-packet one-way delay: 106.077 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 68.37 Mbit/s
95th percentile per-packet one-way delay: 106.077 ms
Loss rate: 0.43%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

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

End at: 2018-08-27 21:50:38

Local clock offset: -0.091 ms

Remote clock offset: 14.512 ms

Below is generated by plot.py at 2018-08-28 00:05:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.90 Mbit/s

95th percentile per-packet one-way delay: 101.342 ms

Loss rate: 0.46%

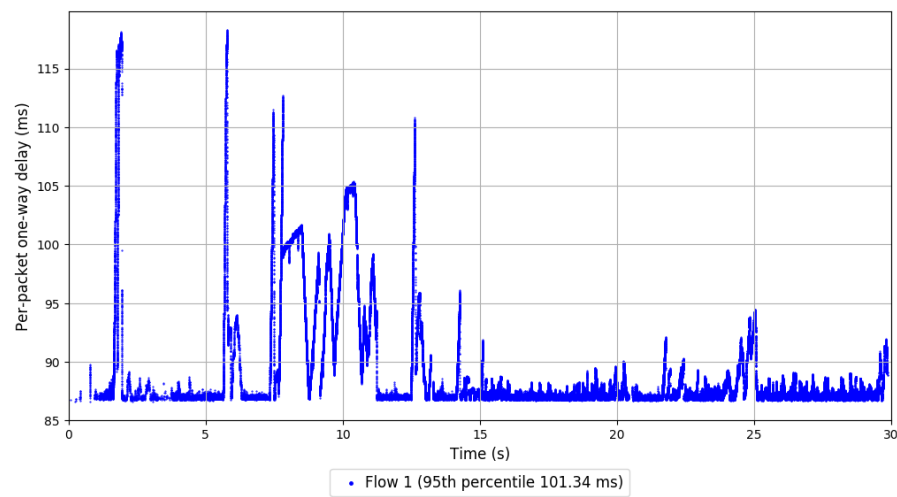
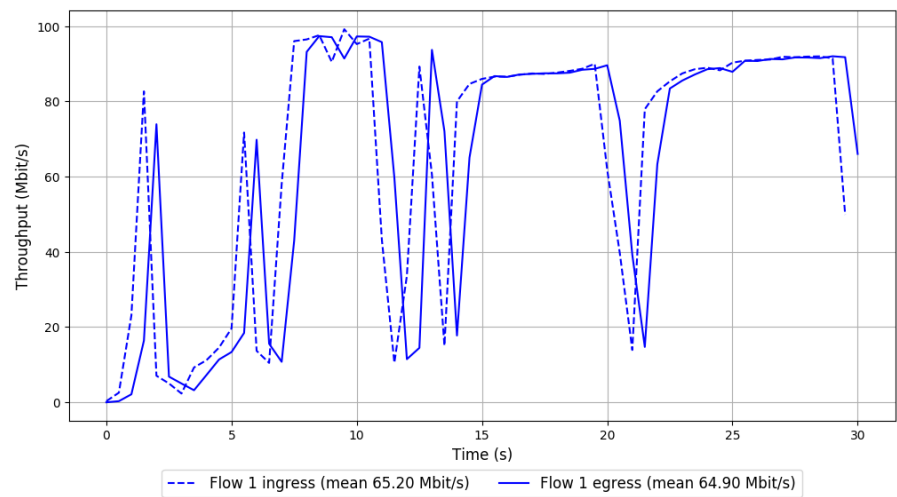
-- Flow 1:

Average throughput: 64.90 Mbit/s

95th percentile per-packet one-way delay: 101.342 ms

Loss rate: 0.46%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

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

End at: 2018-08-27 22:10:13

Local clock offset: 1.841 ms

Remote clock offset: 15.61 ms

Below is generated by plot.py at 2018-08-28 00:05:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.95 Mbit/s

95th percentile per-packet one-way delay: 105.317 ms

Loss rate: 0.44%

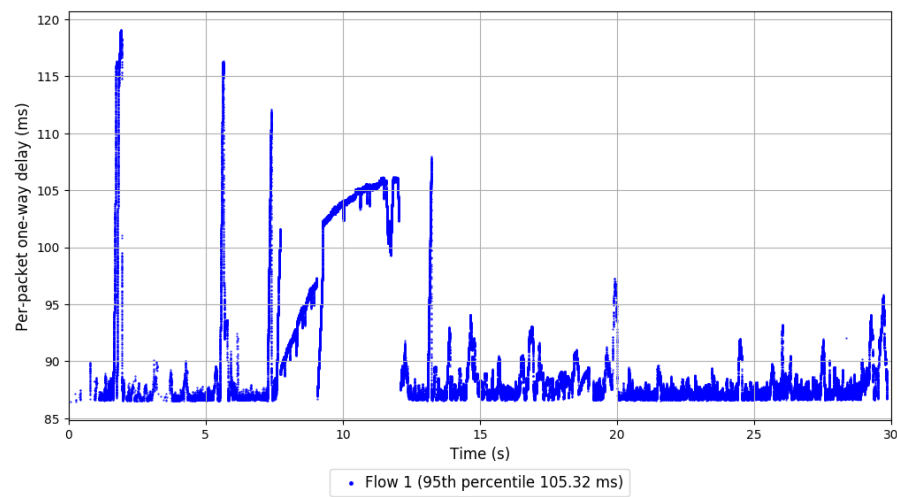
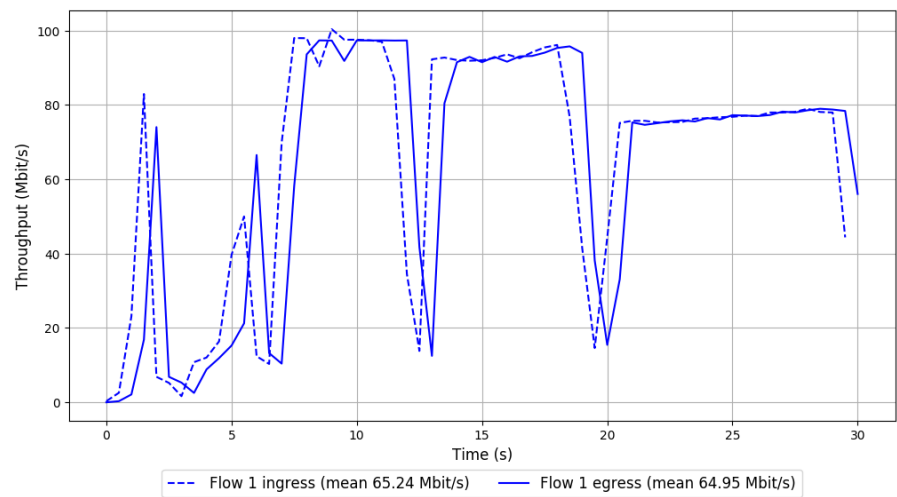
-- Flow 1:

Average throughput: 64.95 Mbit/s

95th percentile per-packet one-way delay: 105.317 ms

Loss rate: 0.44%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-08-27 22:29:17

End at: 2018-08-27 22:29:47

Local clock offset: 4.575 ms

Remote clock offset: 9.027 ms

Below is generated by plot.py at 2018-08-28 00:05:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.27 Mbit/s

95th percentile per-packet one-way delay: 96.369 ms

Loss rate: 0.44%

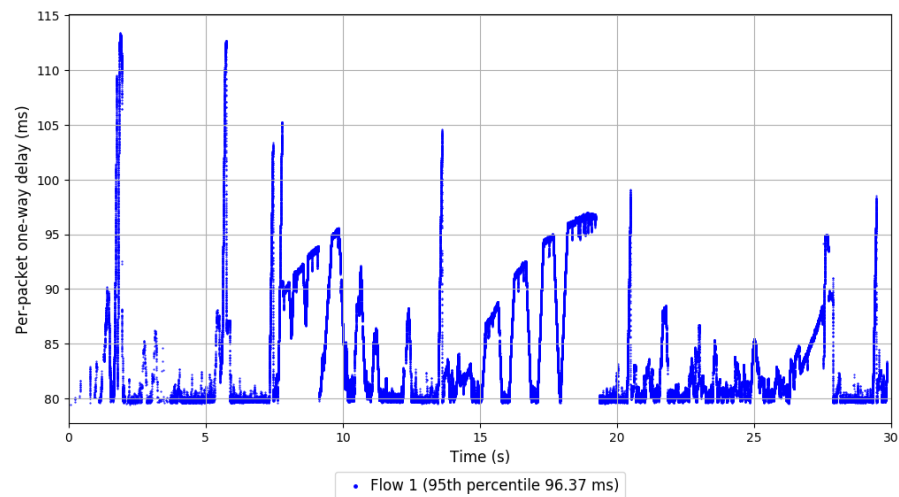
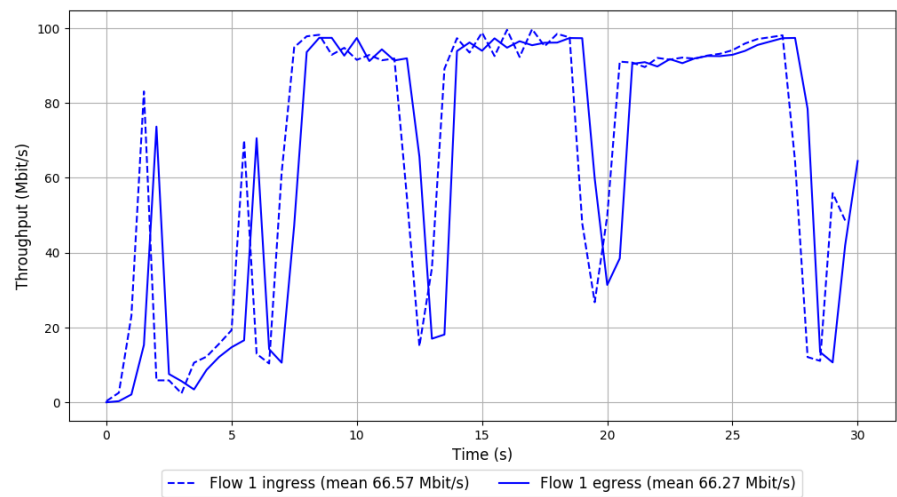
-- Flow 1:

Average throughput: 66.27 Mbit/s

95th percentile per-packet one-way delay: 96.369 ms

Loss rate: 0.44%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-08-27 22:48:59

End at: 2018-08-27 22:49:29

Local clock offset: 0.229 ms

Remote clock offset: 10.976 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.29 Mbit/s

95th percentile per-packet one-way delay: 102.582 ms

Loss rate: 0.44%

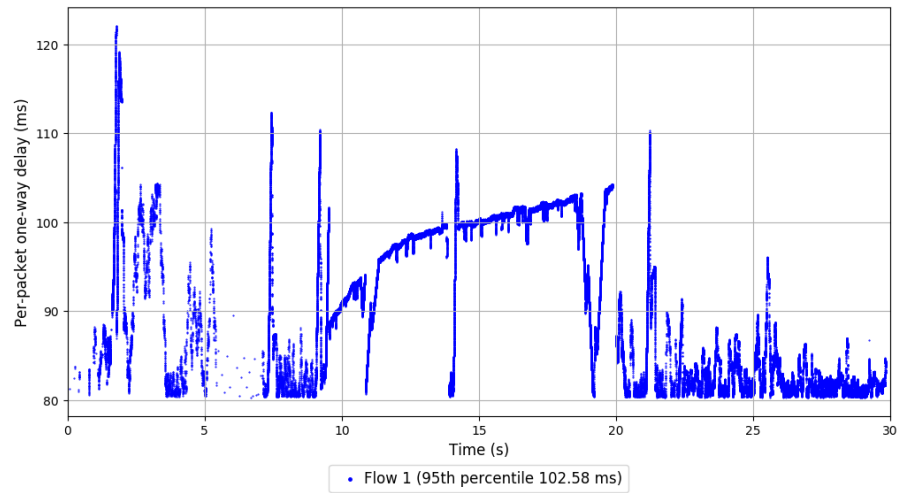
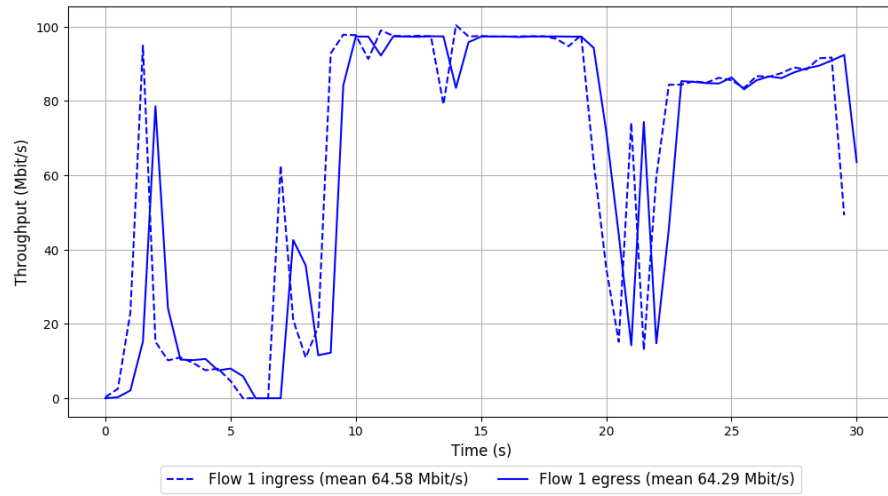
-- Flow 1:

Average throughput: 64.29 Mbit/s

95th percentile per-packet one-way delay: 102.582 ms

Loss rate: 0.44%

Run 7: Report of QUIC Cubic — Data Link

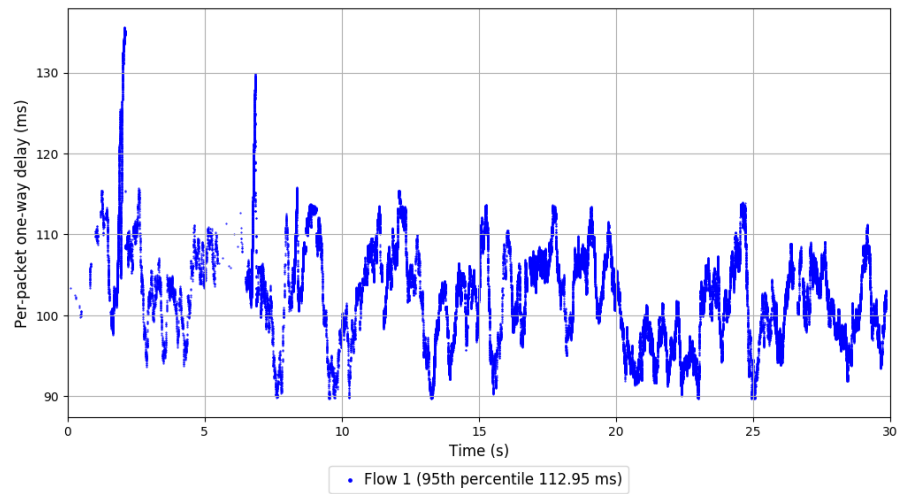
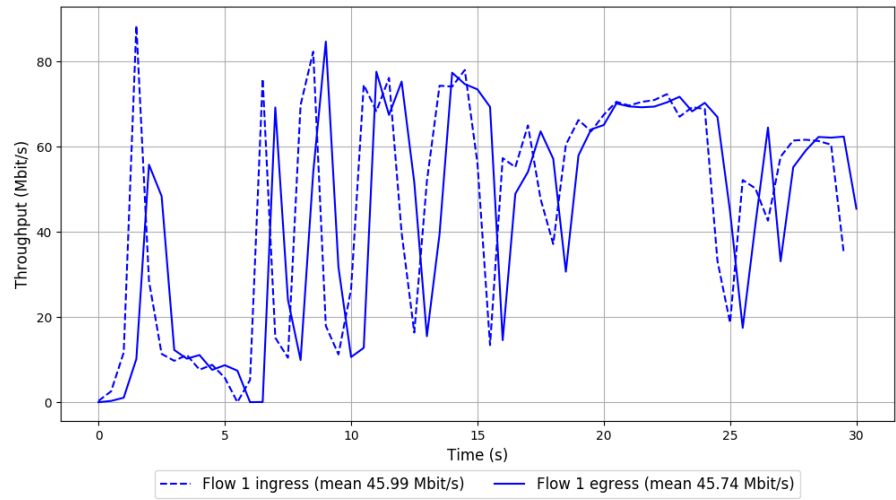


Run 8: Statistics of QUIC Cubic

Start at: 2018-08-27 23:08:31
End at: 2018-08-27 23:09:01
Local clock offset: 0.899 ms
Remote clock offset: 18.185 ms

Below is generated by plot.py at 2018-08-28 00:06:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 45.74 Mbit/s
95th percentile per-packet one-way delay: 112.948 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 45.74 Mbit/s
95th percentile per-packet one-way delay: 112.948 ms
Loss rate: 0.56%

Run 8: Report of QUIC Cubic — Data Link

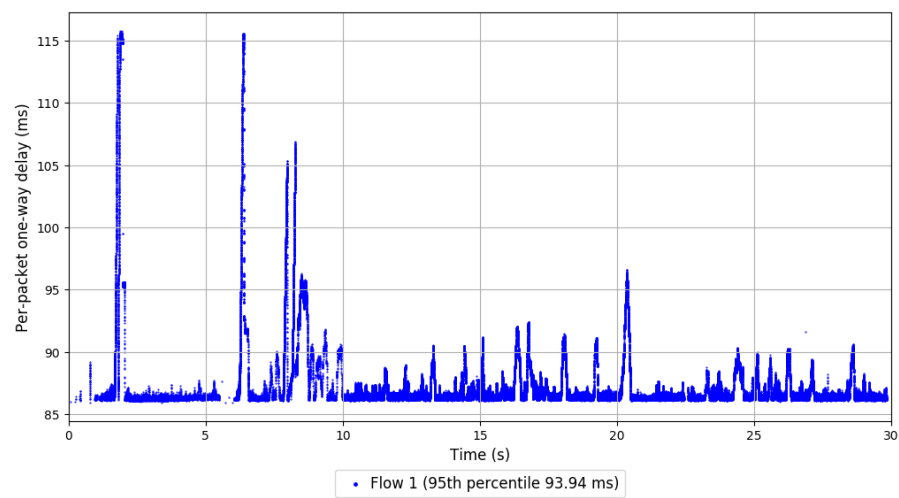
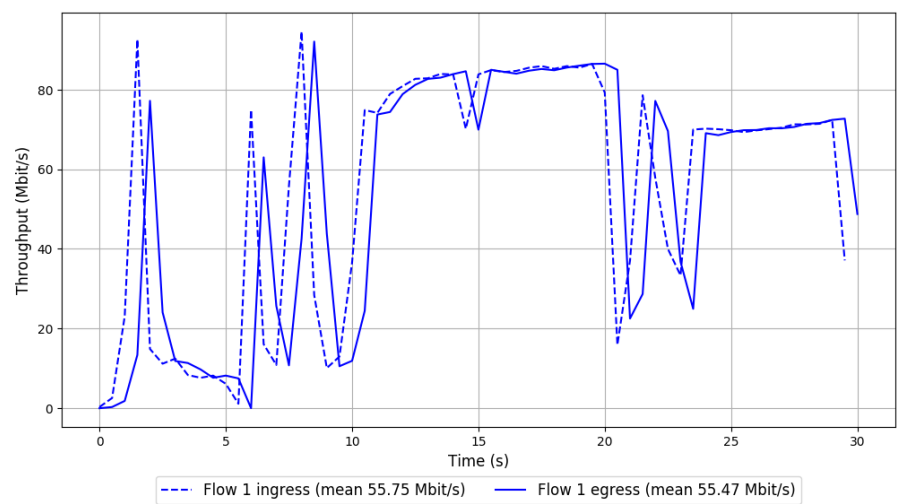


Run 9: Statistics of QUIC Cubic

Start at: 2018-08-27 23:28:03
End at: 2018-08-27 23:28:33
Local clock offset: -0.328 ms
Remote clock offset: 11.238 ms

Below is generated by plot.py at 2018-08-28 00:06:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 55.47 Mbit/s
95th percentile per-packet one-way delay: 93.945 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 55.47 Mbit/s
95th percentile per-packet one-way delay: 93.945 ms
Loss rate: 0.49%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-08-27 23:47:45

End at: 2018-08-27 23:48:15

Local clock offset: -3.216 ms

Remote clock offset: 15.847 ms

Below is generated by plot.py at 2018-08-28 00:06:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.85 Mbit/s

95th percentile per-packet one-way delay: 91.998 ms

Loss rate: 0.11%

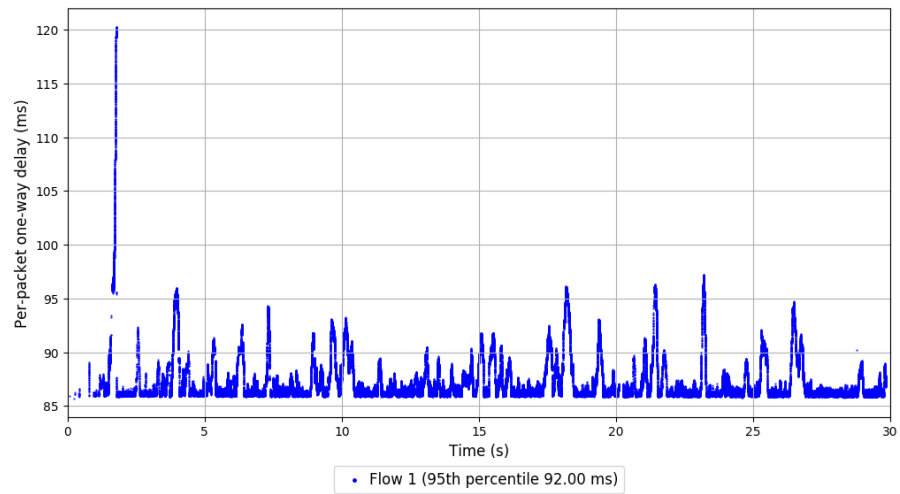
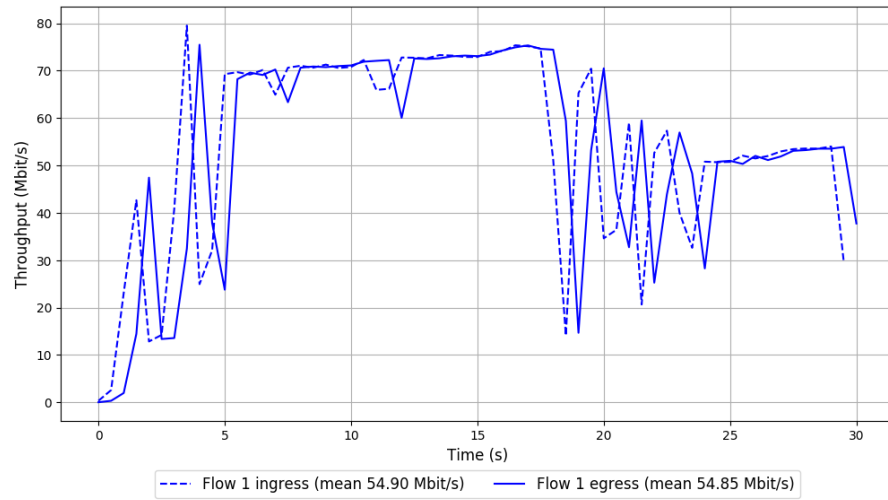
-- Flow 1:

Average throughput: 54.85 Mbit/s

95th percentile per-packet one-way delay: 91.998 ms

Loss rate: 0.11%

Run 10: Report of QUIC Cubic — Data Link

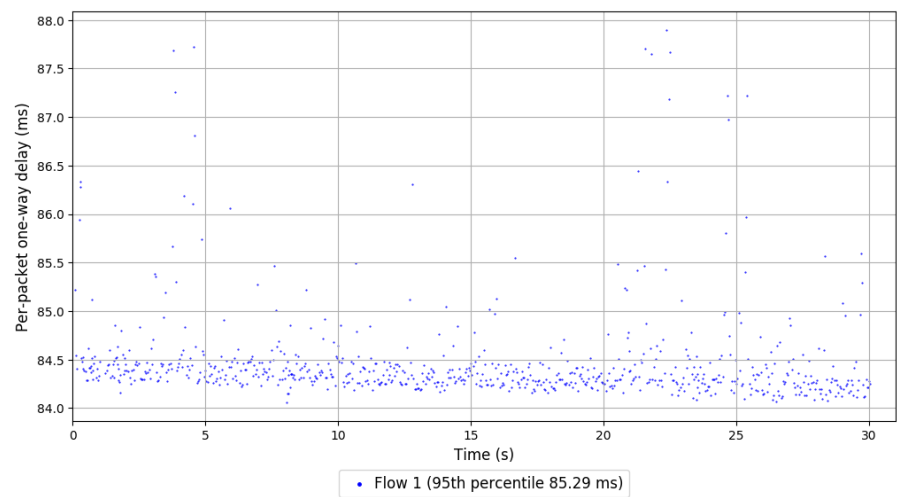
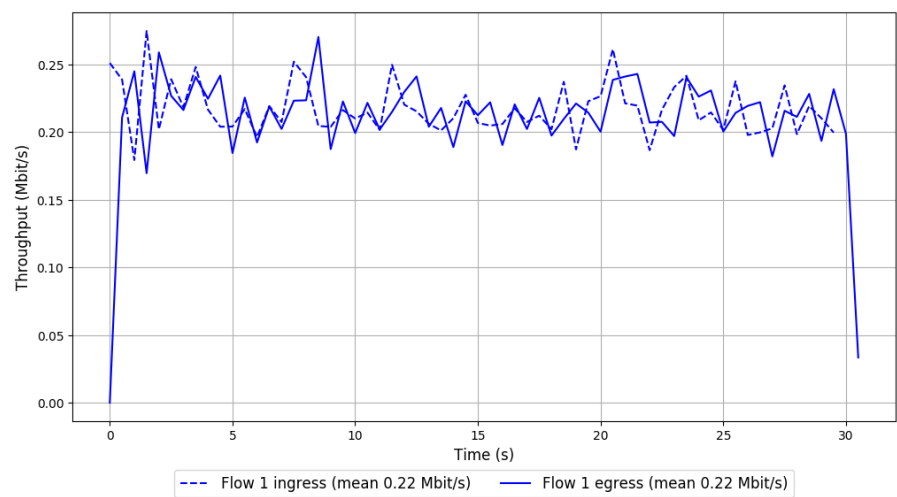


```
Run 1: Statistics of SCReAM

Start at: 2018-08-27 20:49:05
End at: 2018-08-27 20:49:35
Local clock offset: 3.662 ms
Remote clock offset: 7.613 ms

# Below is generated by plot.py at 2018-08-28 00:06:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.288 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.288 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

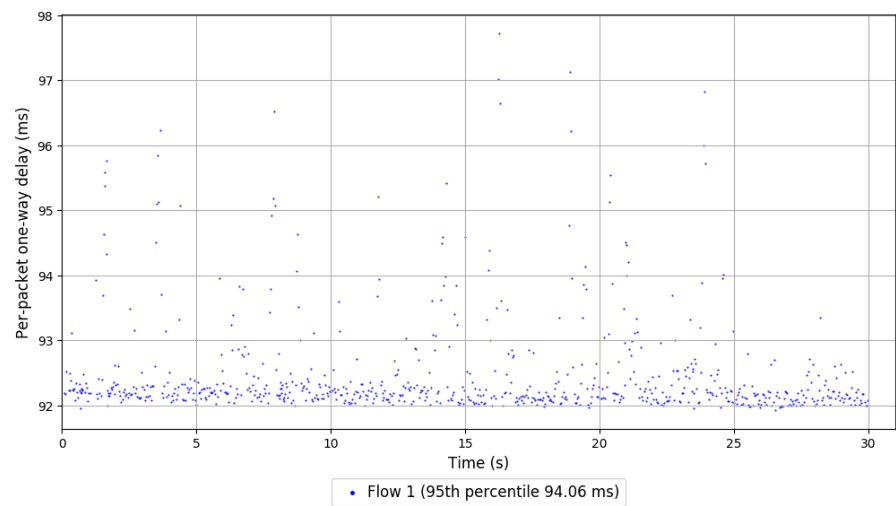
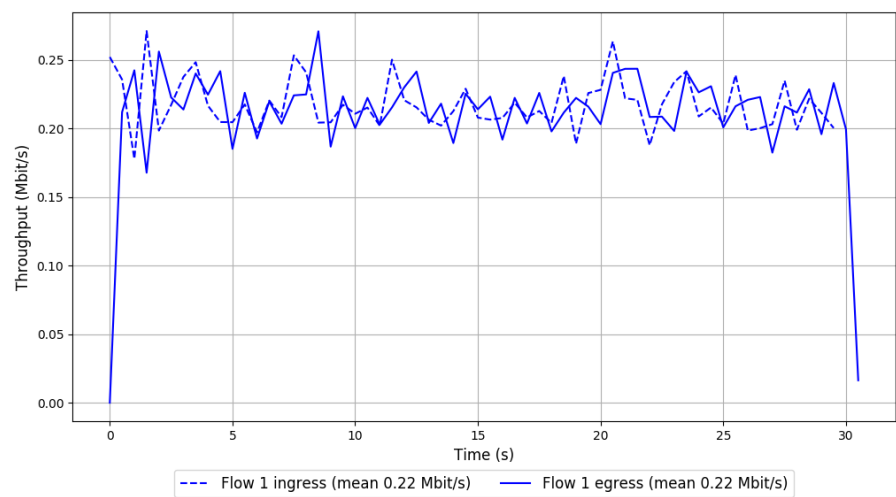


Run 2: Statistics of SCReAM

Start at: 2018-08-27 21:08:40
End at: 2018-08-27 21:09:10
Local clock offset: 2.542 ms
Remote clock offset: 13.196 ms

Below is generated by plot.py at 2018-08-28 00:06:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 94.063 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 94.063 ms
Loss rate: 0.13%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-08-27 21:28:14

End at: 2018-08-27 21:28:44

Local clock offset: 2.625 ms

Remote clock offset: 8.827 ms

Below is generated by plot.py at 2018-08-28 00:06:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.385 ms

Loss rate: 0.00%

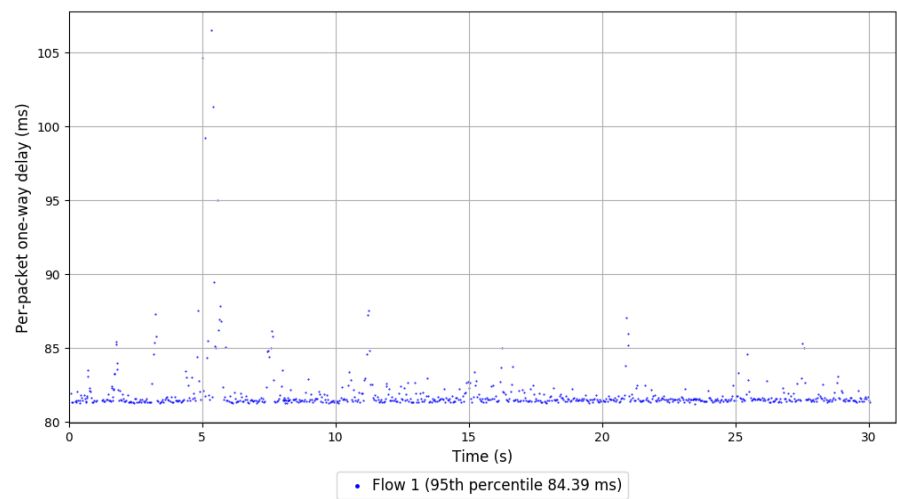
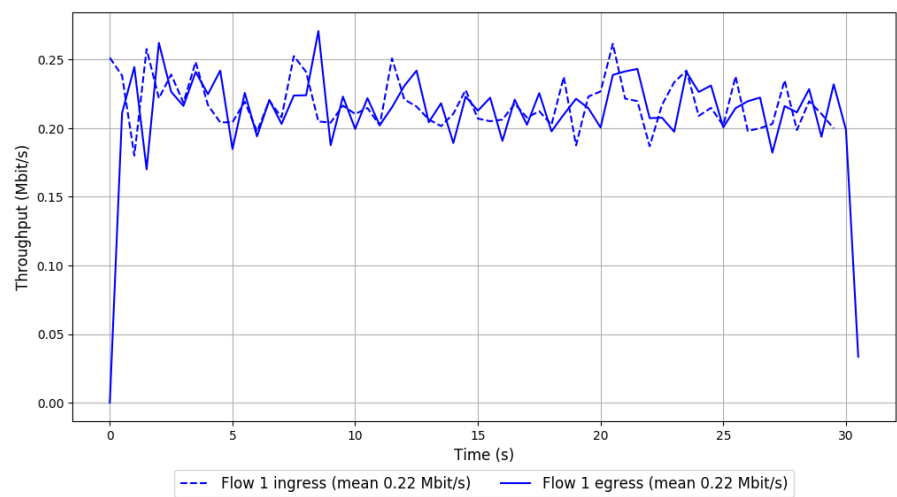
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.385 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-08-27 21:47:51

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

Local clock offset: 0.768 ms

Remote clock offset: 9.286 ms

Below is generated by plot.py at 2018-08-28 00:06:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 82.518 ms

Loss rate: 0.00%

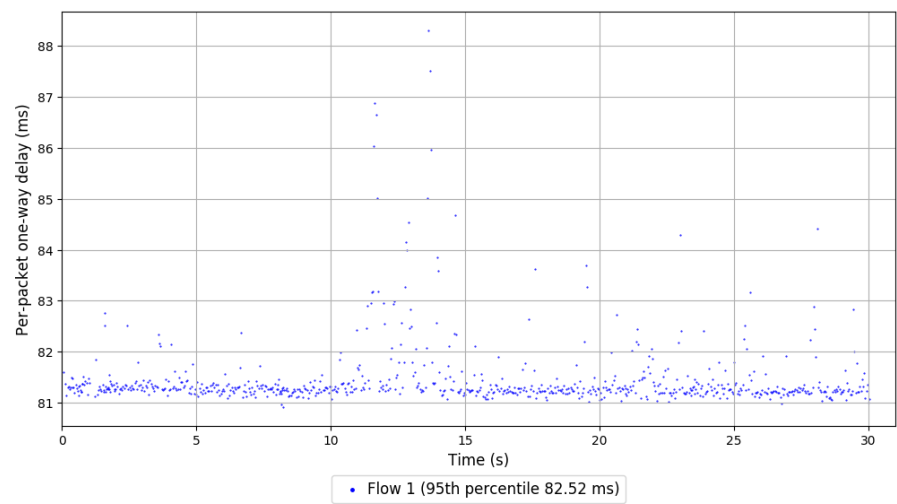
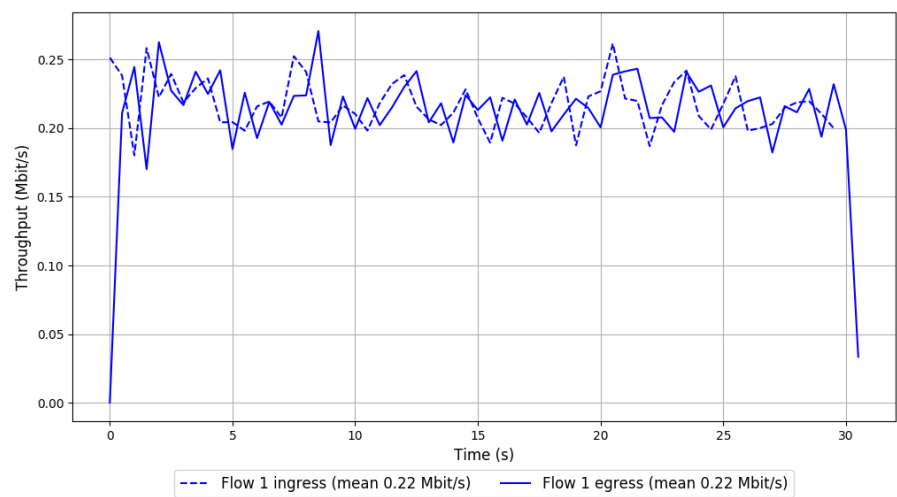
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 82.518 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-08-27 22:07:26

End at: 2018-08-27 22:07:56

Local clock offset: 1.274 ms

Remote clock offset: 9.572 ms

Below is generated by plot.py at 2018-08-28 00:06:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.063 ms

Loss rate: 0.00%

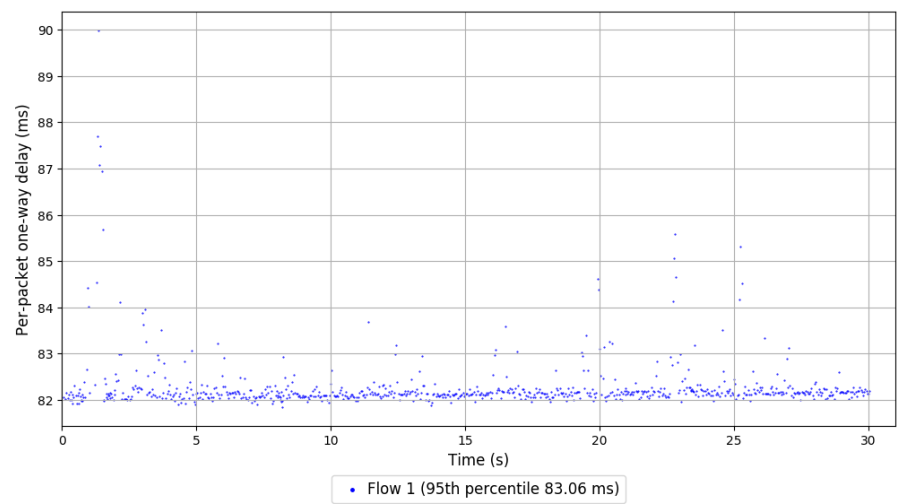
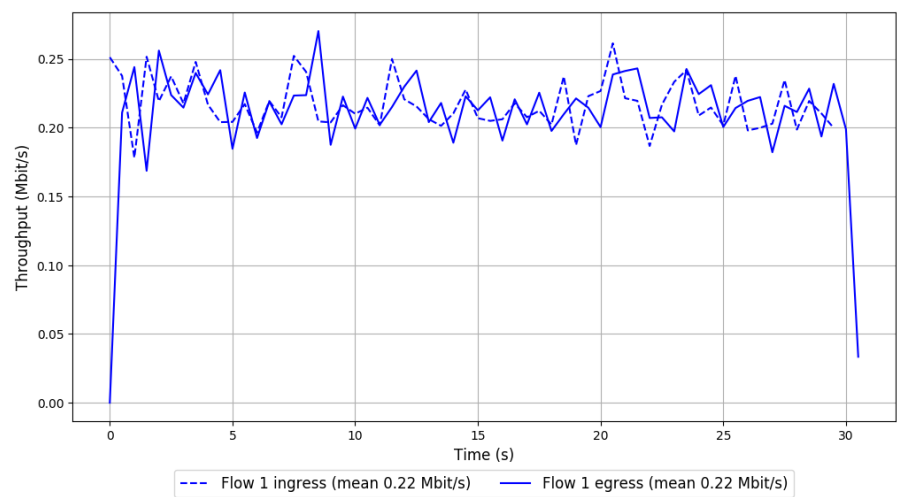
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.063 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

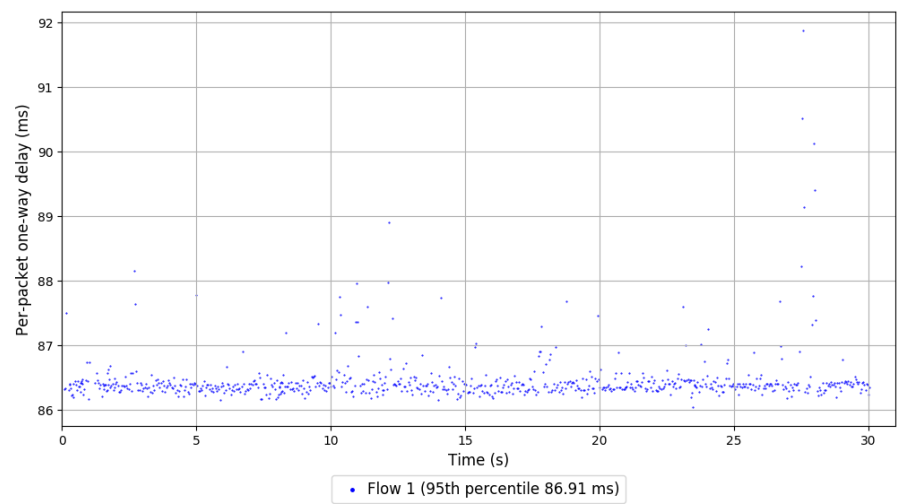
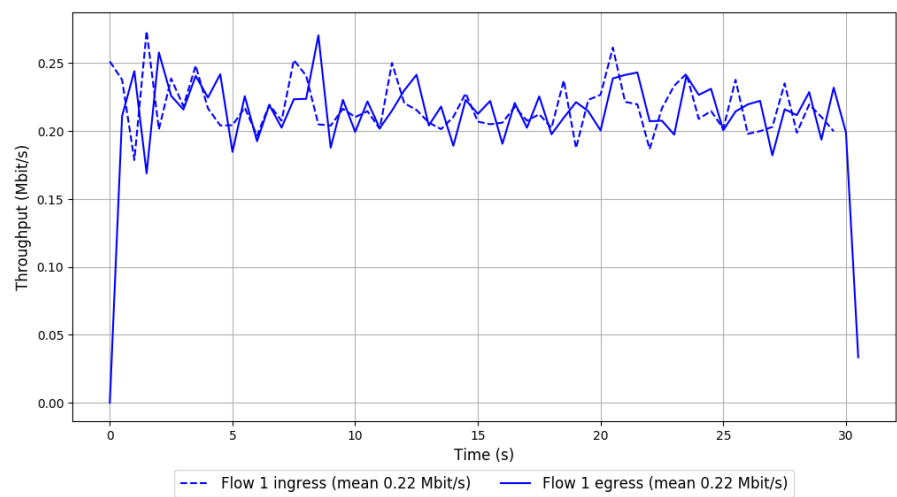


Run 6: Statistics of SCReAM

Start at: 2018-08-27 22:27:01
End at: 2018-08-27 22:27:31
Local clock offset: 4.45 ms
Remote clock offset: 14.113 ms

Below is generated by plot.py at 2018-08-28 00:06:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.906 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.906 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

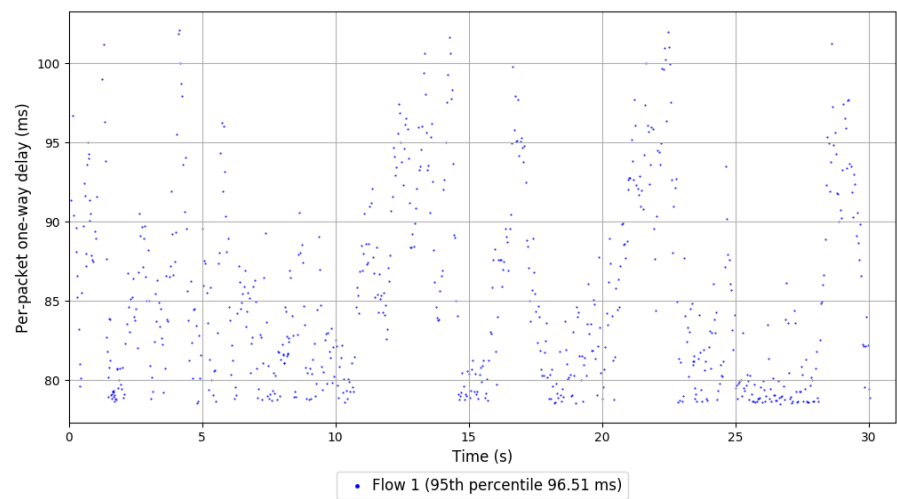
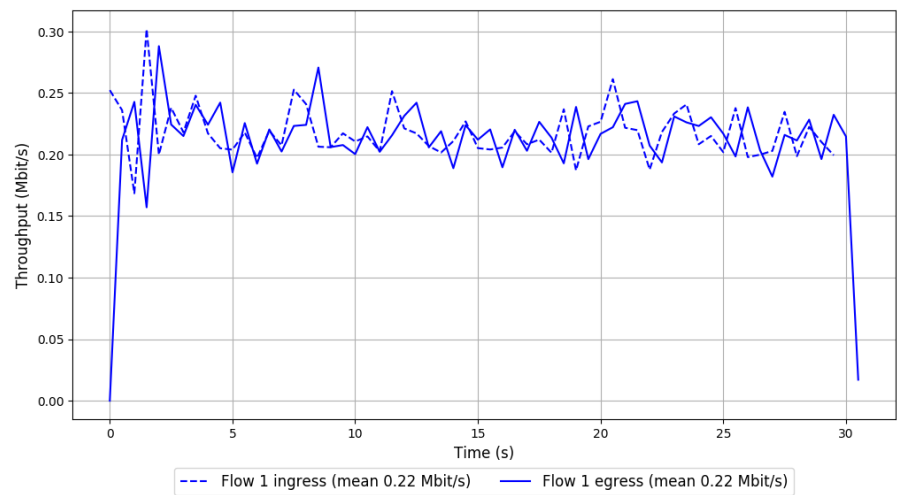


Run 7: Statistics of SCReAM

Start at: 2018-08-27 22:46:42
End at: 2018-08-27 22:47:12
Local clock offset: 1.99 ms
Remote clock offset: 10.802 ms

Below is generated by plot.py at 2018-08-28 00:06:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 96.512 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 96.512 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

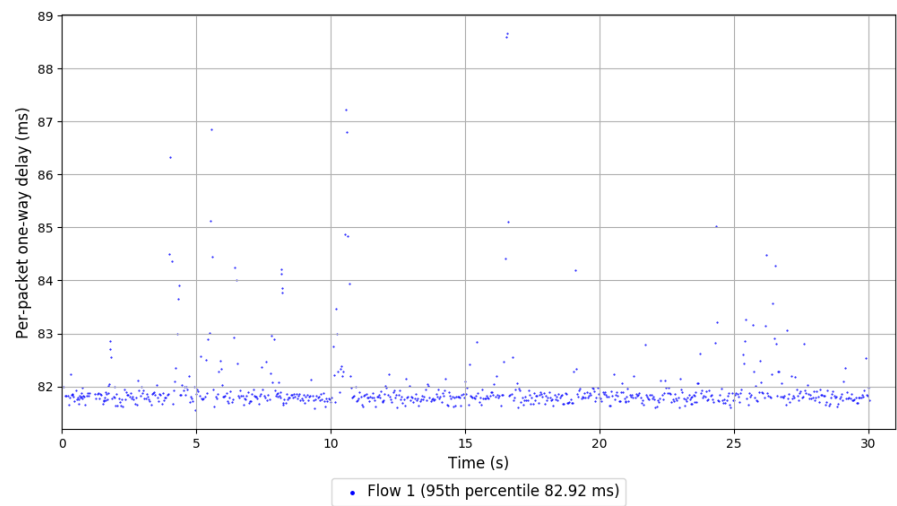
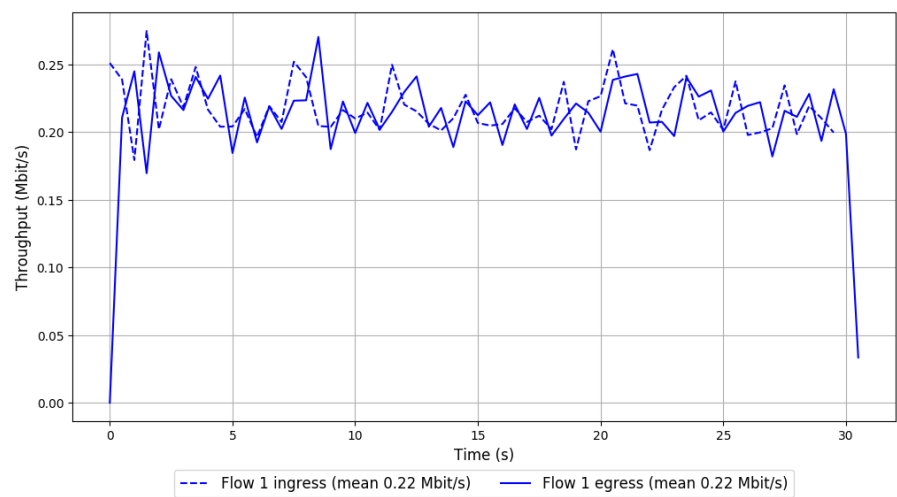


Run 8: Statistics of SCReAM

Start at: 2018-08-27 23:06:14
End at: 2018-08-27 23:06:44
Local clock offset: -0.623 ms
Remote clock offset: 13.394 ms

Below is generated by plot.py at 2018-08-28 00:06:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.919 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.919 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

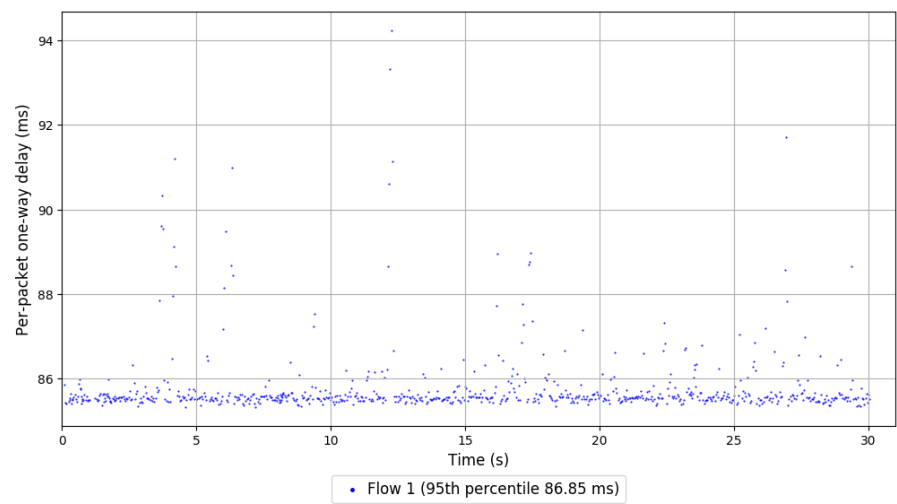
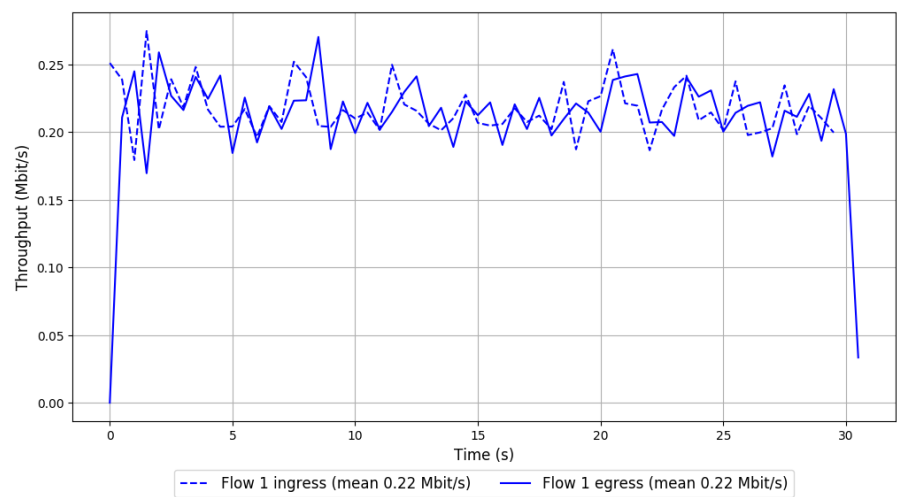


Run 9: Statistics of SCReAM

Start at: 2018-08-27 23:25:46
End at: 2018-08-27 23:26:16
Local clock offset: 0.471 ms
Remote clock offset: 16.221 ms

Below is generated by plot.py at 2018-08-28 00:06:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.851 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.851 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

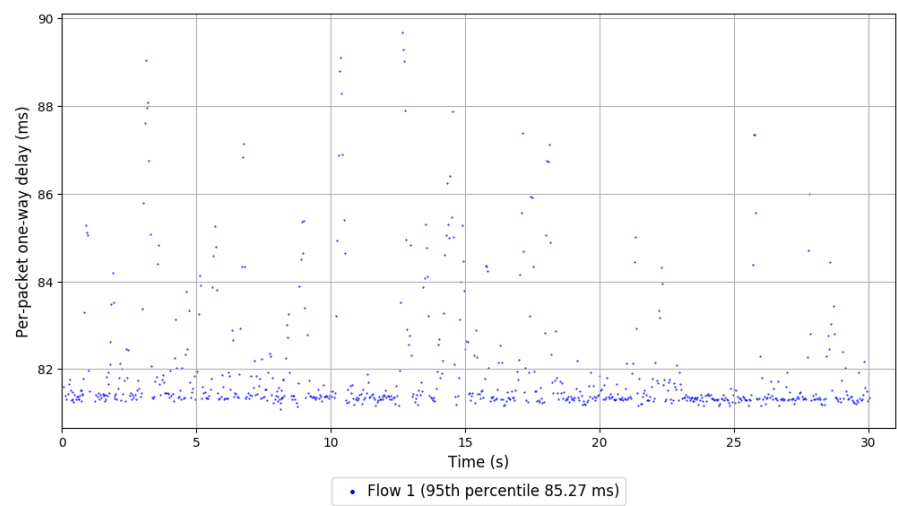
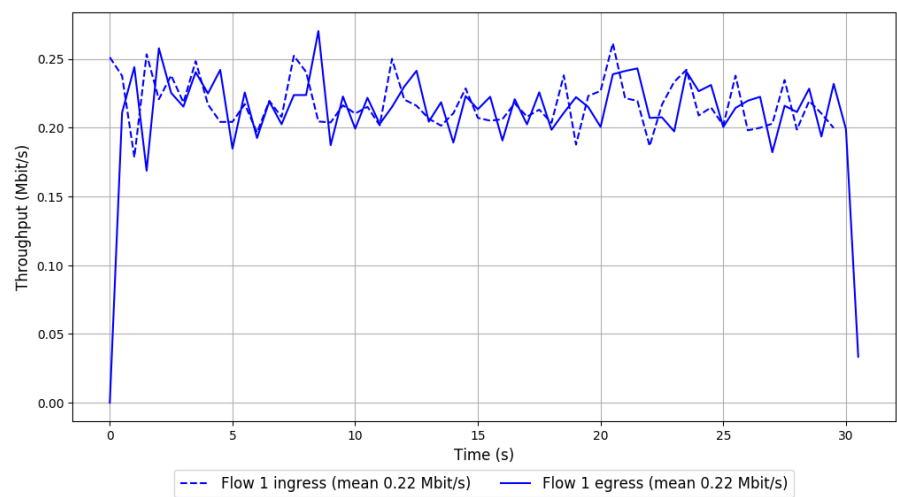


Run 10: Statistics of SReAM

Start at: 2018-08-27 23:45:28
End at: 2018-08-27 23:45:58
Local clock offset: -3.008 ms
Remote clock offset: 10.949 ms

Below is generated by plot.py at 2018-08-28 00:06:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.274 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.274 ms
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

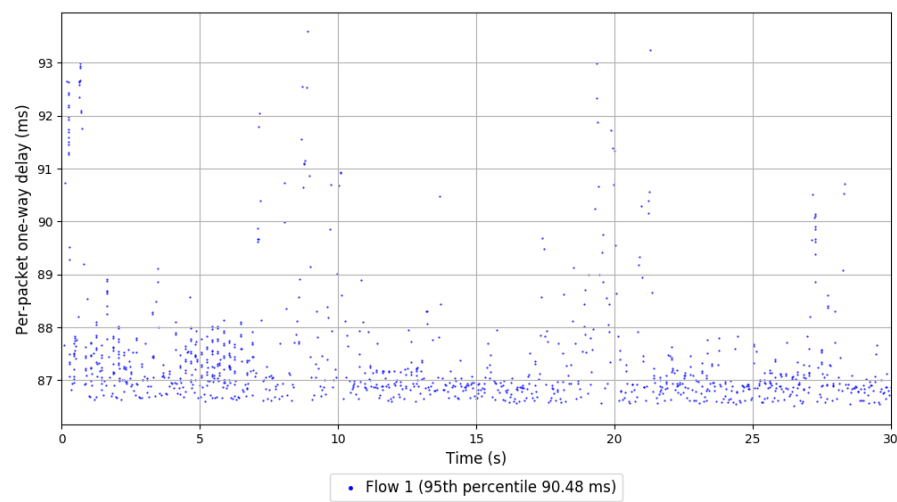
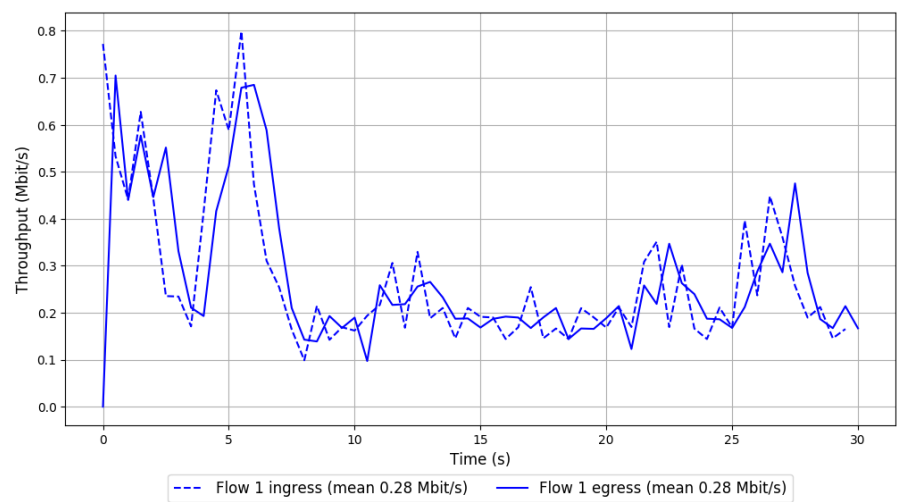


Run 1: Statistics of Sprout

Start at: 2018-08-27 20:54:49
End at: 2018-08-27 20:55:19
Local clock offset: 3.561 ms
Remote clock offset: 10.356 ms

Below is generated by plot.py at 2018-08-28 00:06:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 90.479 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 90.479 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-08-27 21:14:23

End at: 2018-08-27 21:14:53

Local clock offset: 1.918 ms

Remote clock offset: 12.22 ms

Below is generated by plot.py at 2018-08-28 00:06:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 88.618 ms

Loss rate: 0.00%

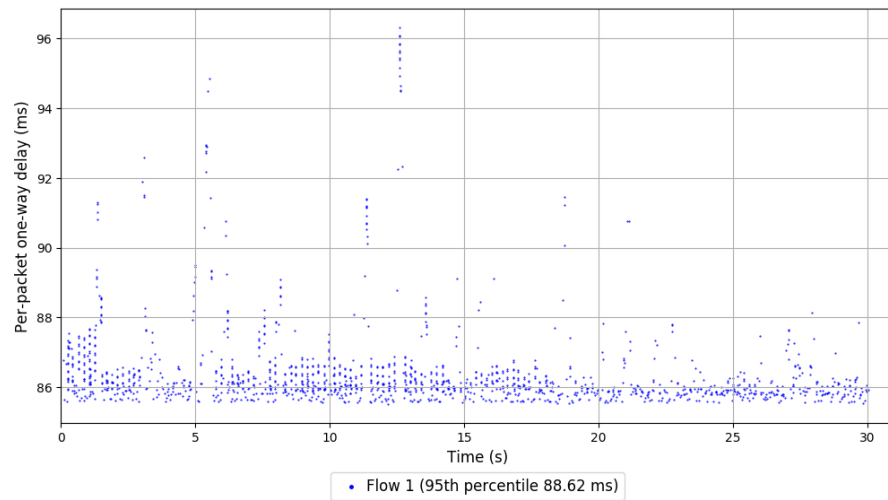
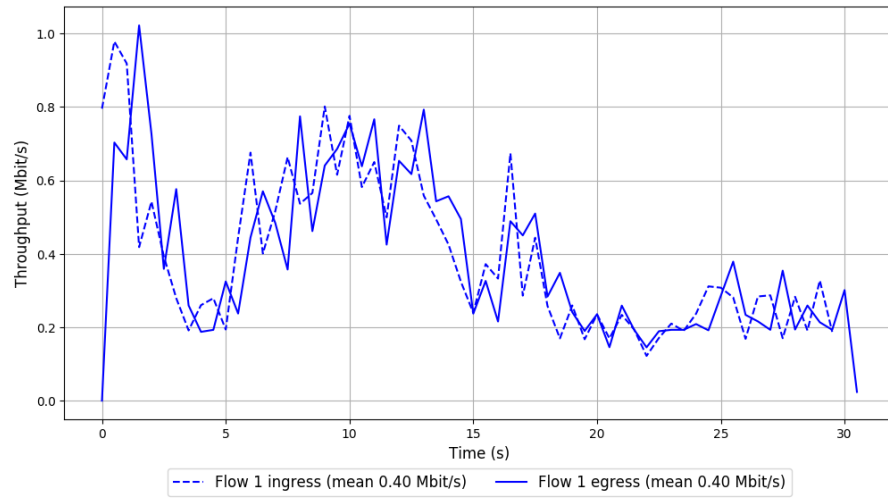
-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 88.618 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

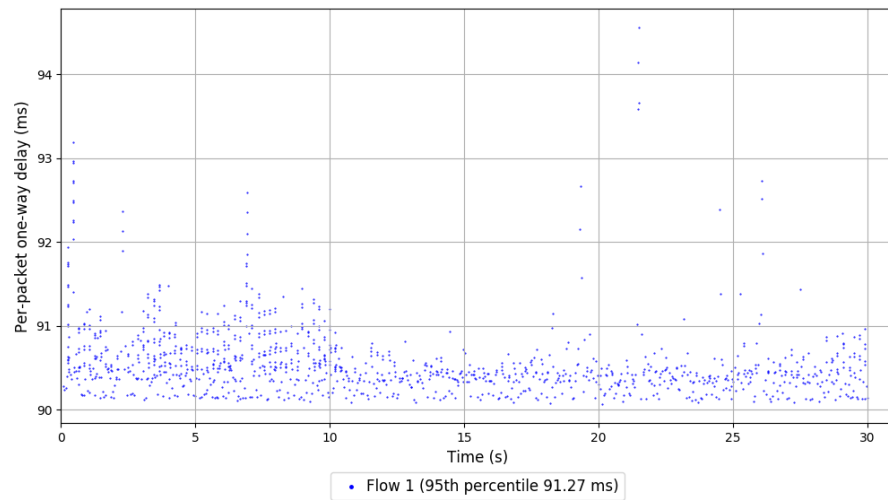
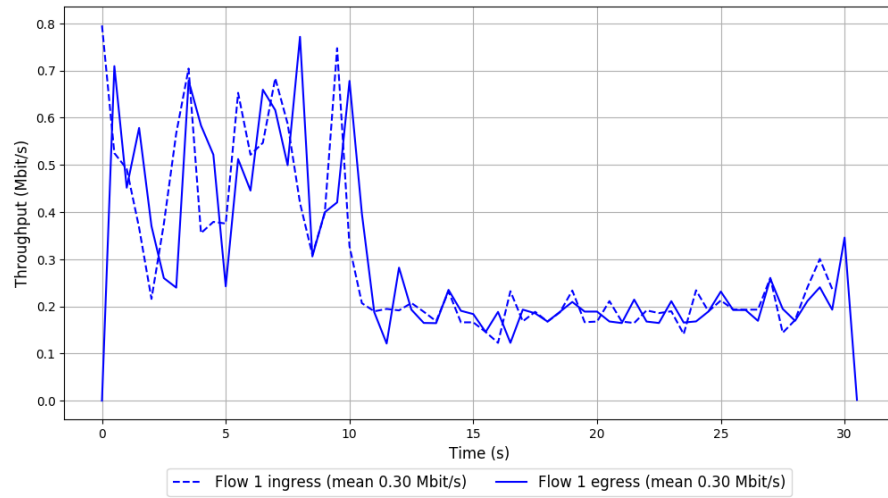


Run 3: Statistics of Sprout

Start at: 2018-08-27 21:33:57
End at: 2018-08-27 21:34:27
Local clock offset: 2.23 ms
Remote clock offset: 12.336 ms

Below is generated by plot.py at 2018-08-28 00:06:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 91.270 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 91.270 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

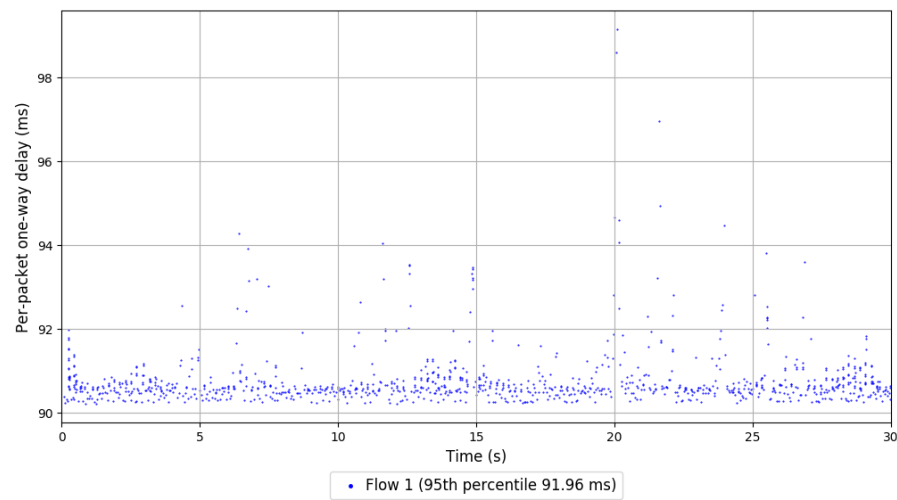
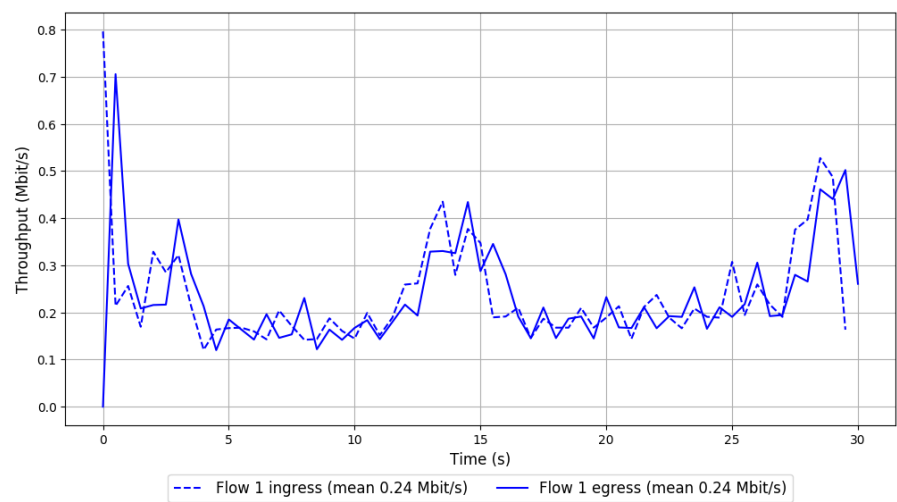


Run 4: Statistics of Sprout

Start at: 2018-08-27 21:53:34
End at: 2018-08-27 21:54:04
Local clock offset: 0.521 ms
Remote clock offset: 13.716 ms

Below is generated by plot.py at 2018-08-28 00:06:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 91.958 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 91.958 ms
Loss rate: 0.17%

Run 4: Report of Sprout — Data Link

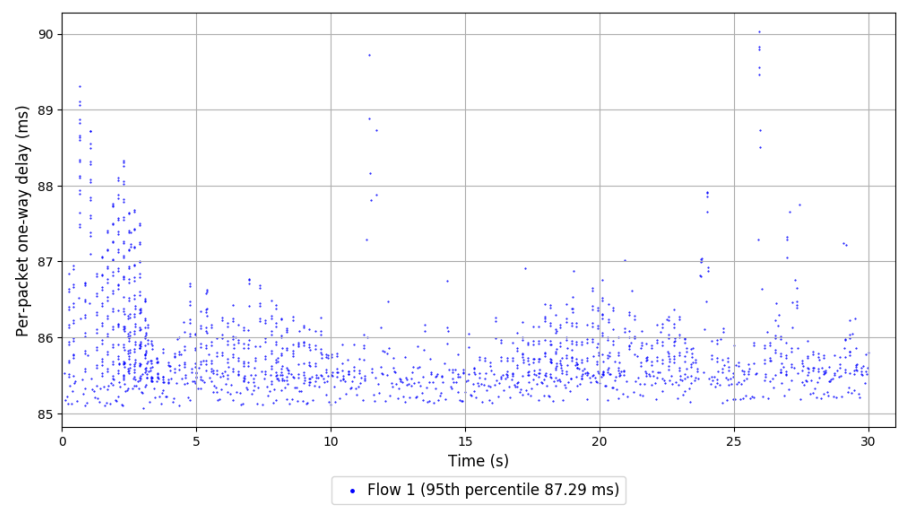
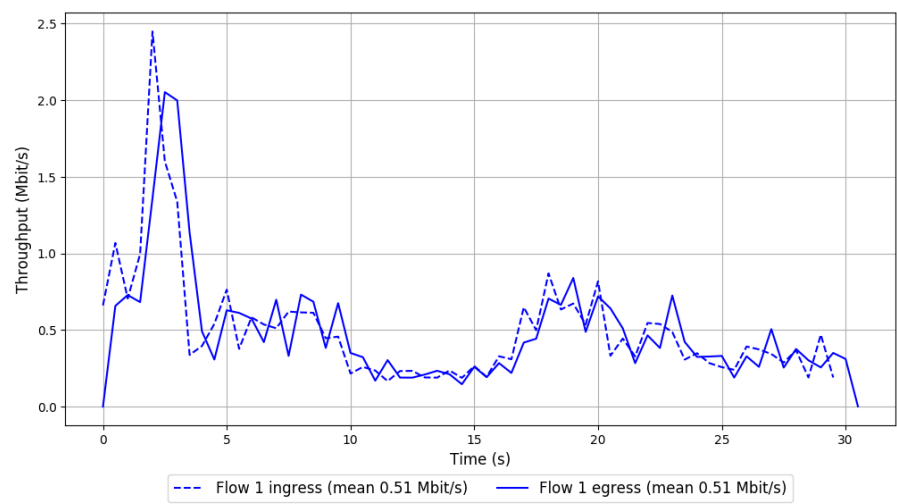


Run 5: Statistics of Sprout

Start at: 2018-08-27 22:13:08
End at: 2018-08-27 22:13:39
Local clock offset: 3.161 ms
Remote clock offset: 14.532 ms

Below is generated by plot.py at 2018-08-28 00:06:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 87.287 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 87.287 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

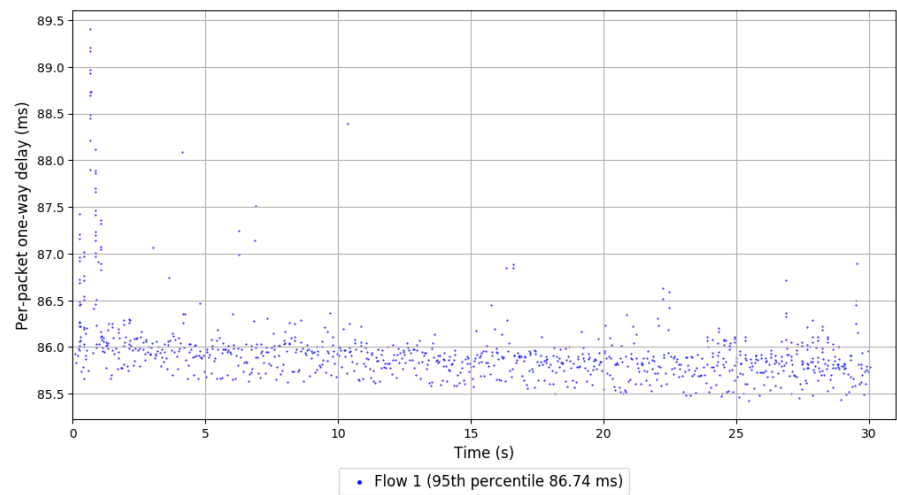
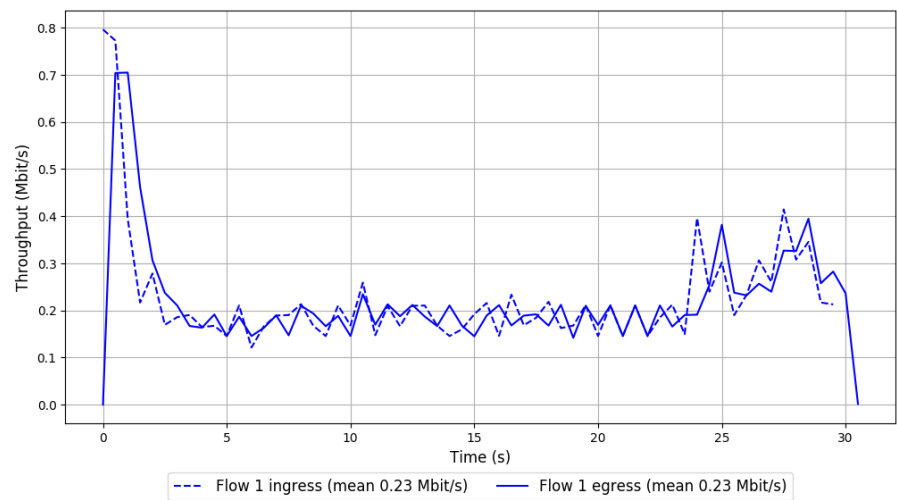


Run 6: Statistics of Sprout

Start at: 2018-08-27 22:32:43
End at: 2018-08-27 22:33:13
Local clock offset: 4.471 ms
Remote clock offset: 14.289 ms

Below is generated by plot.py at 2018-08-28 00:06:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 86.744 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 86.744 ms
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

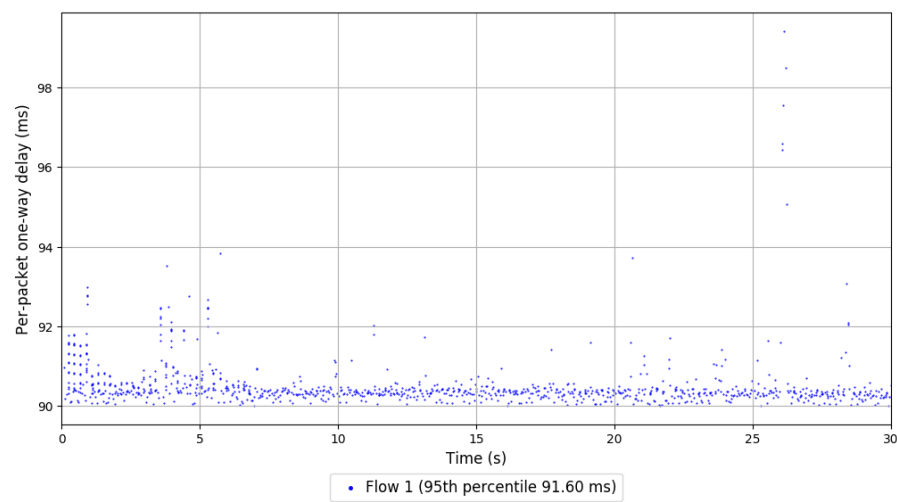
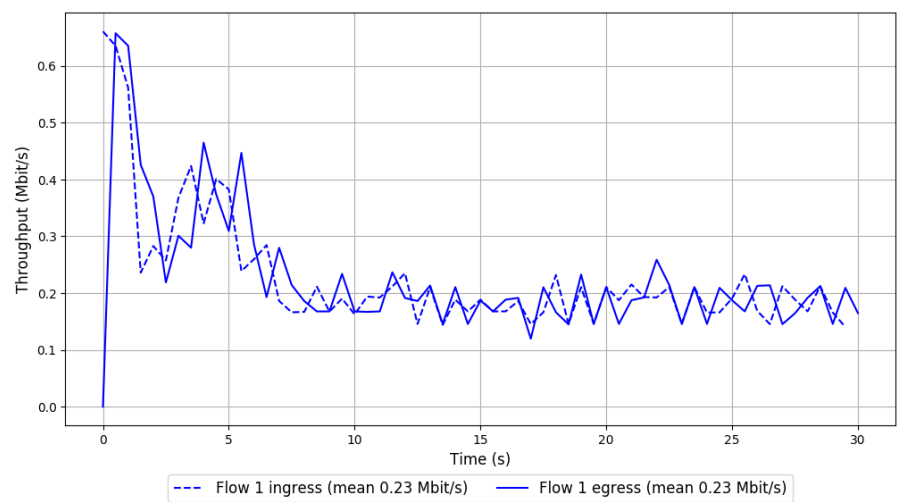


Run 7: Statistics of Sprout

Start at: 2018-08-27 22:52:25
End at: 2018-08-27 22:52:55
Local clock offset: 1.547 ms
Remote clock offset: 16.322 ms

Below is generated by plot.py at 2018-08-28 00:06:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 91.602 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 91.602 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

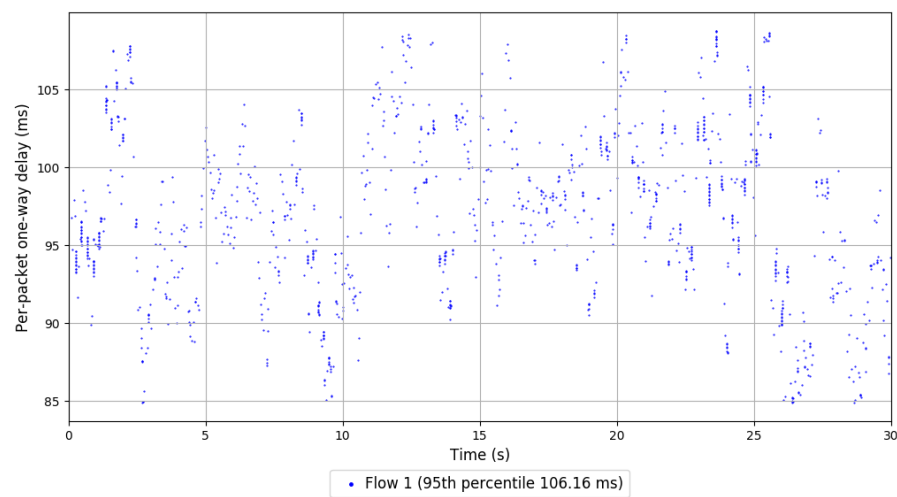
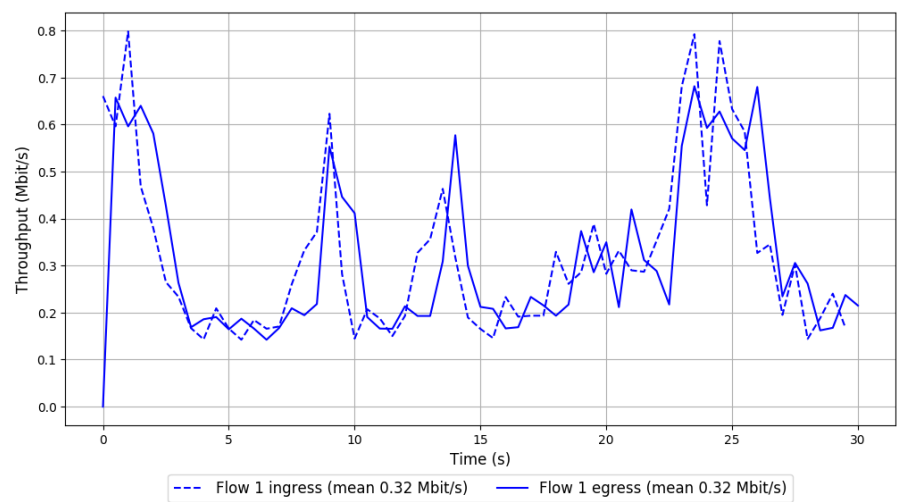


Run 8: Statistics of Sprout

Start at: 2018-08-27 23:11:56
End at: 2018-08-27 23:12:27
Local clock offset: 0.786 ms
Remote clock offset: 18.048 ms

Below is generated by plot.py at 2018-08-28 00:06:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 106.158 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 106.158 ms
Loss rate: 0.44%

Run 8: Report of Sprout — Data Link

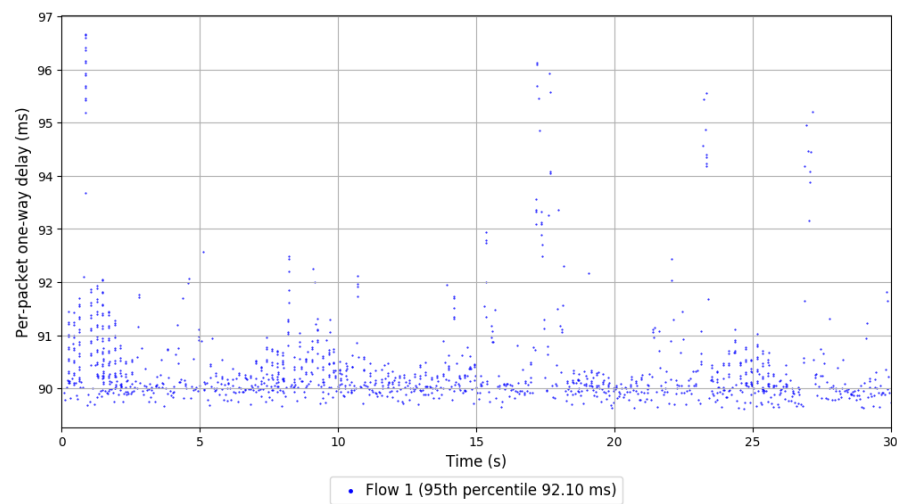
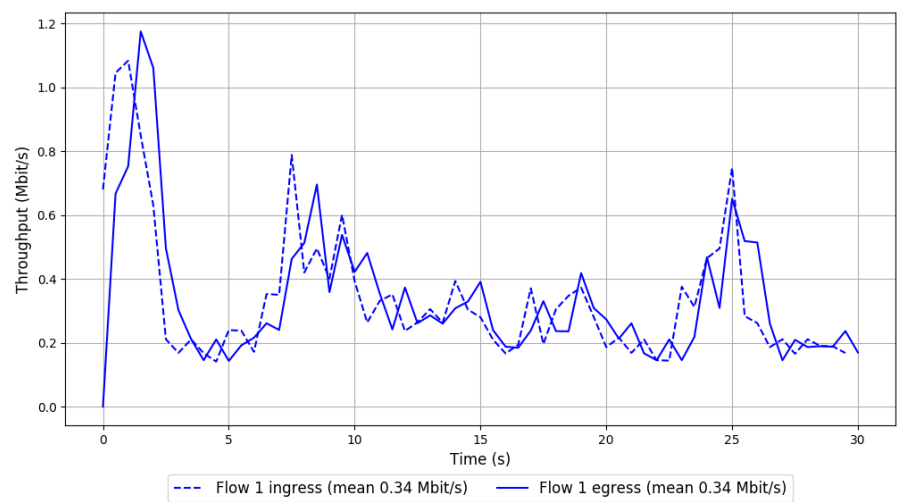


Run 9: Statistics of Sprout

Start at: 2018-08-27 23:31:29
End at: 2018-08-27 23:31:59
Local clock offset: -0.48 ms
Remote clock offset: 16.084 ms

Below is generated by plot.py at 2018-08-28 00:06:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 92.098 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 92.098 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

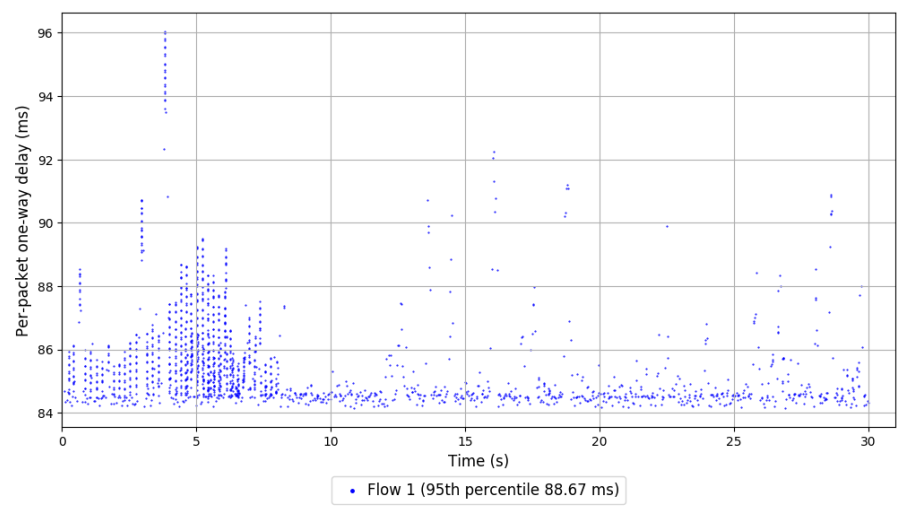
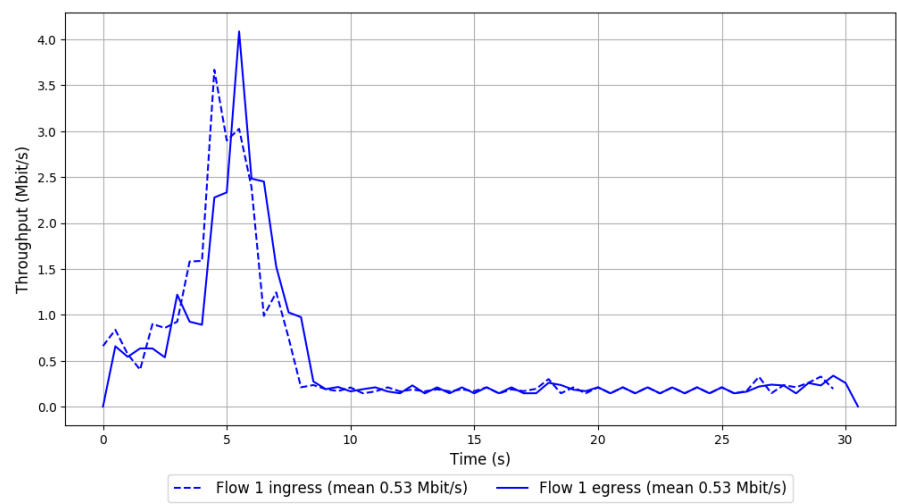


Run 10: Statistics of Sprout

Start at: 2018-08-27 23:51:11
End at: 2018-08-27 23:51:41
Local clock offset: -4.317 ms
Remote clock offset: 15.014 ms

Below is generated by plot.py at 2018-08-28 00:06:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 88.674 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 88.674 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

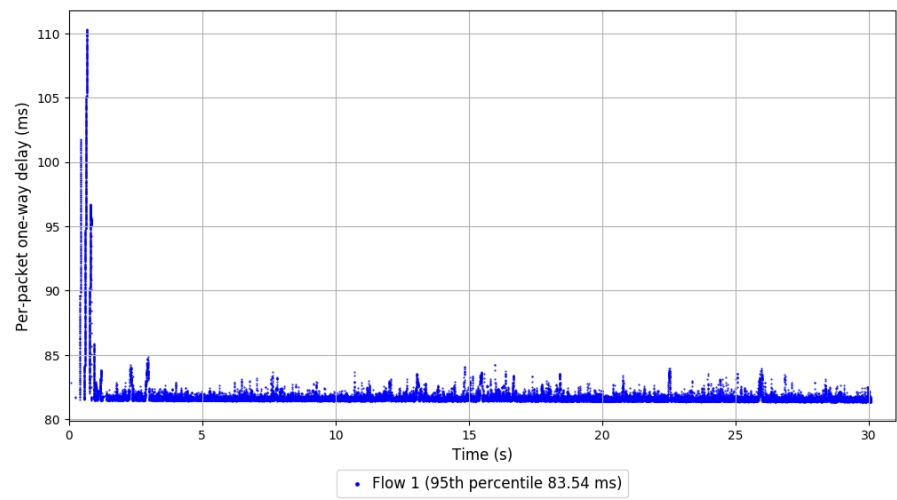
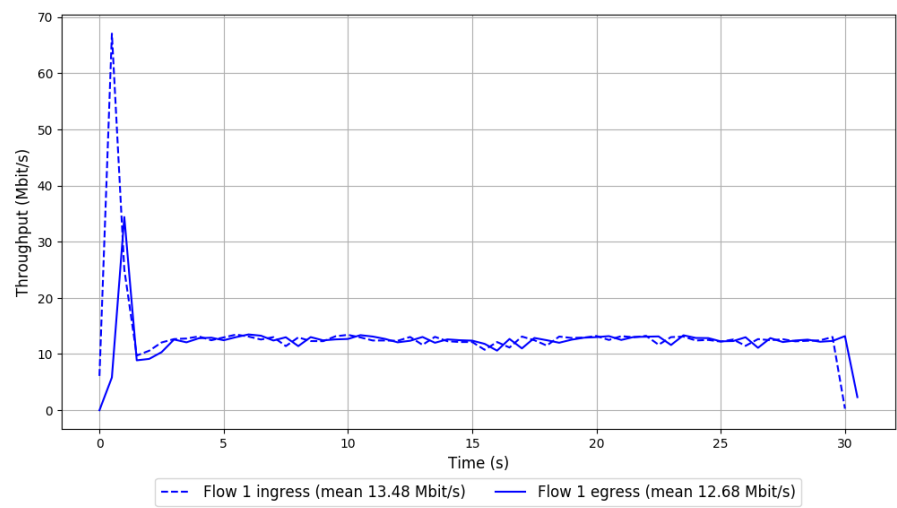


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-08-27 20:57:05
End at: 2018-08-27 20:57:35
Local clock offset: 3.632 ms
Remote clock offset: 7.107 ms

# Below is generated by plot.py at 2018-08-28 00:06:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.68 Mbit/s
95th percentile per-packet one-way delay: 83.536 ms
Loss rate: 5.92%
-- Flow 1:
Average throughput: 12.68 Mbit/s
95th percentile per-packet one-way delay: 83.536 ms
Loss rate: 5.92%
```

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

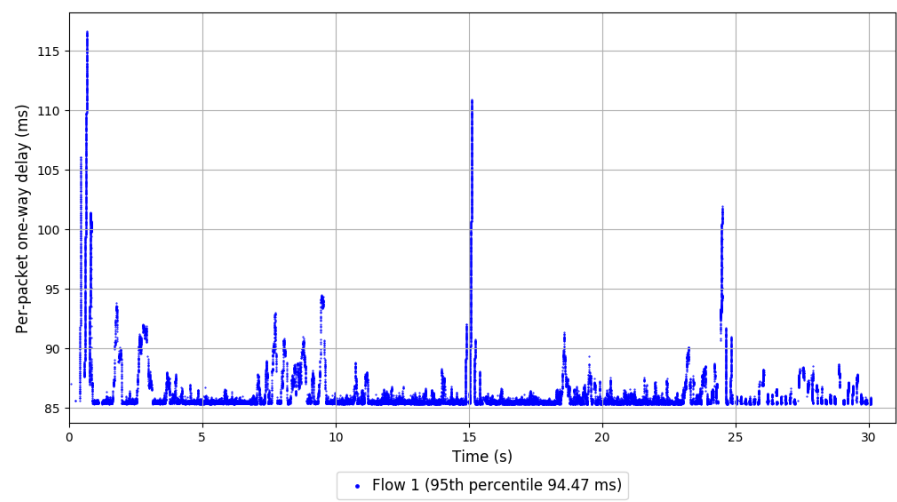
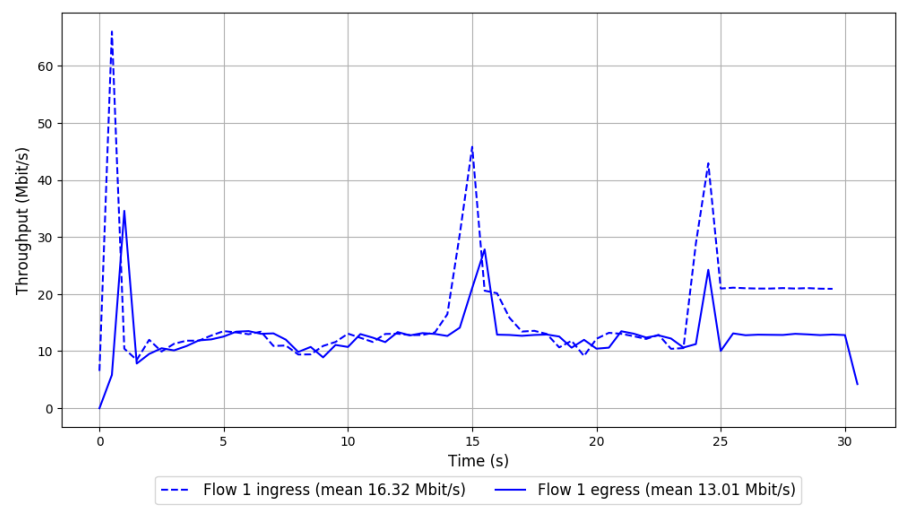


Run 2: Statistics of TaoVA-100x

Start at: 2018-08-27 21:16:38
End at: 2018-08-27 21:17:08
Local clock offset: 3.453 ms
Remote clock offset: 13.474 ms

Below is generated by plot.py at 2018-08-28 00:06:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.01 Mbit/s
95th percentile per-packet one-way delay: 94.466 ms
Loss rate: 20.27%
-- Flow 1:
Average throughput: 13.01 Mbit/s
95th percentile per-packet one-way delay: 94.466 ms
Loss rate: 20.27%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-08-27 21:36:14

End at: 2018-08-27 21:36:44

Local clock offset: 1.071 ms

Remote clock offset: 8.906 ms

Below is generated by plot.py at 2018-08-28 00:06:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.97 Mbit/s

95th percentile per-packet one-way delay: 86.743 ms

Loss rate: 5.89%

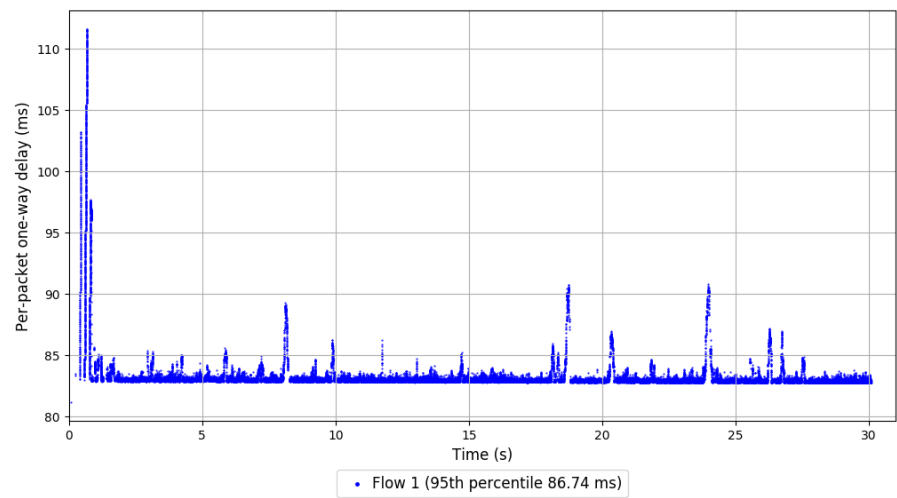
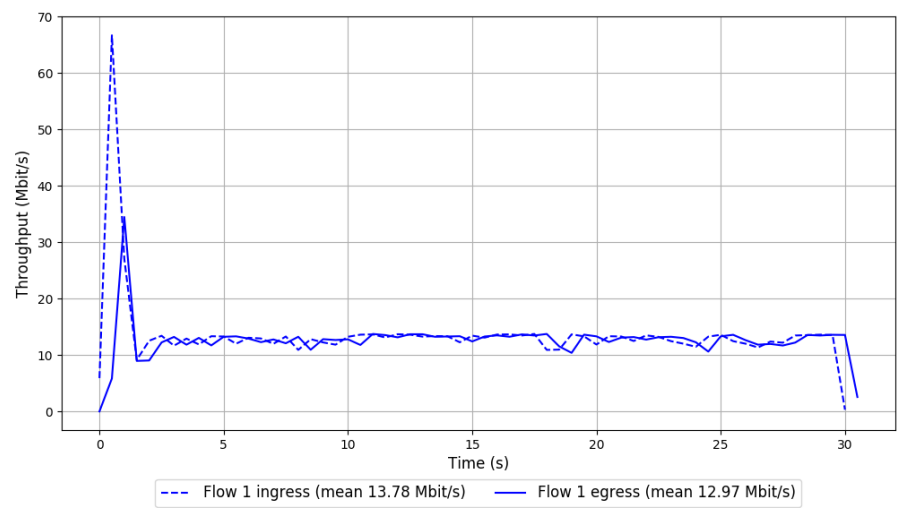
-- Flow 1:

Average throughput: 12.97 Mbit/s

95th percentile per-packet one-way delay: 86.743 ms

Loss rate: 5.89%

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

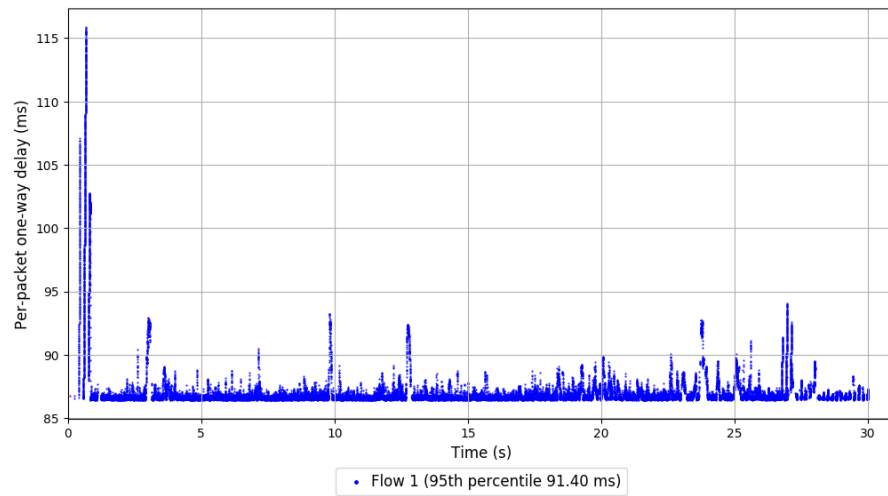
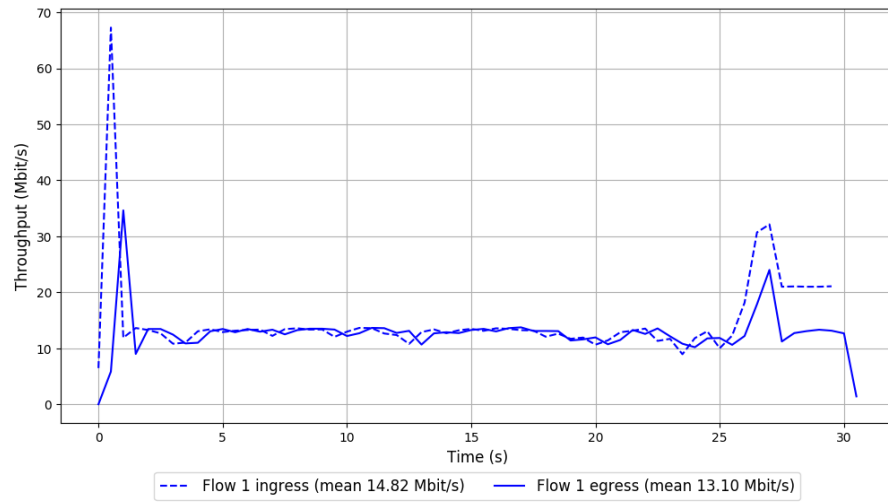


Run 4: Statistics of TaoVA-100x

Start at: 2018-08-27 21:55:51
End at: 2018-08-27 21:56:21
Local clock offset: -0.268 ms
Remote clock offset: 15.921 ms

Below is generated by plot.py at 2018-08-28 00:06:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.10 Mbit/s
95th percentile per-packet one-way delay: 91.397 ms
Loss rate: 11.59%
-- Flow 1:
Average throughput: 13.10 Mbit/s
95th percentile per-packet one-way delay: 91.397 ms
Loss rate: 11.59%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-08-27 22:15:26

End at: 2018-08-27 22:15:56

Local clock offset: 3.413 ms

Remote clock offset: 9.377 ms

Below is generated by plot.py at 2018-08-28 00:06:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.88 Mbit/s

95th percentile per-packet one-way delay: 83.301 ms

Loss rate: 9.53%

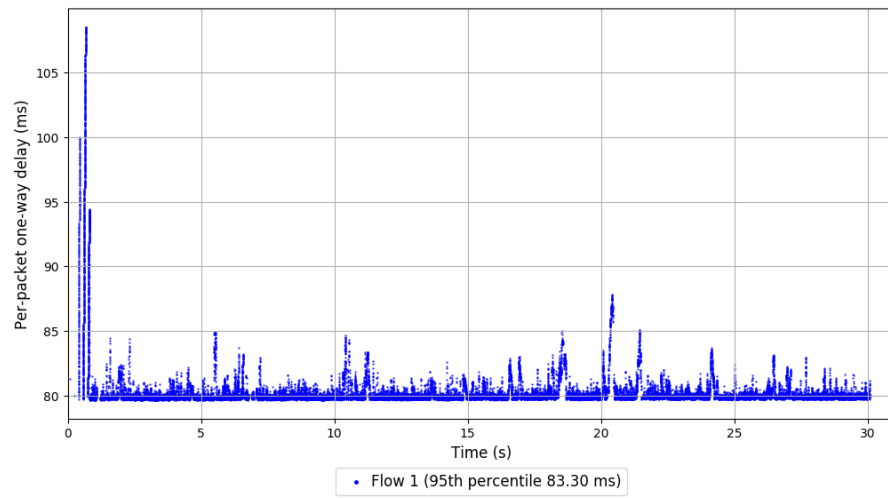
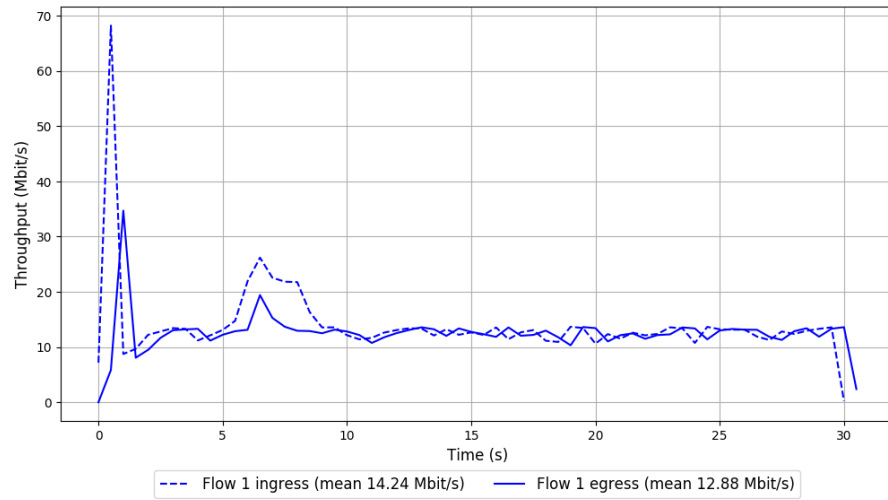
-- Flow 1:

Average throughput: 12.88 Mbit/s

95th percentile per-packet one-way delay: 83.301 ms

Loss rate: 9.53%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-08-27 22:35:00

End at: 2018-08-27 22:35:30

Local clock offset: 2.711 ms

Remote clock offset: 10.619 ms

Below is generated by plot.py at 2018-08-28 00:06:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.09 Mbit/s

95th percentile per-packet one-way delay: 86.106 ms

Loss rate: 38.99%

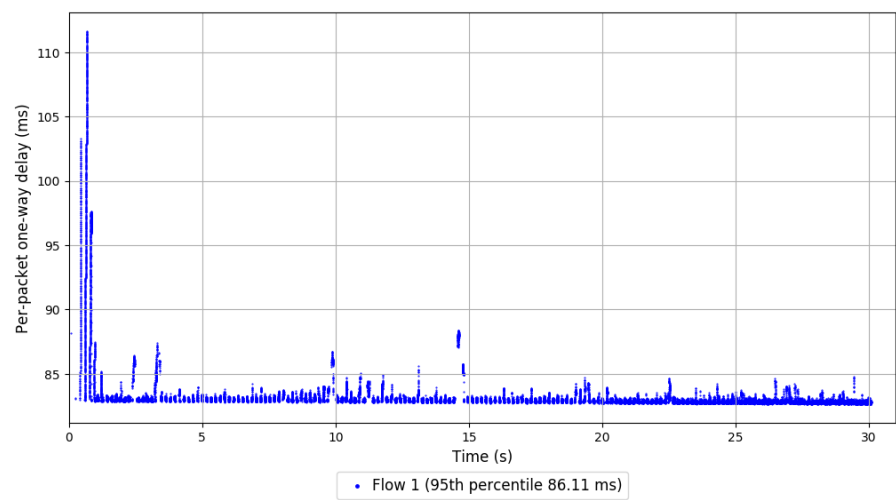
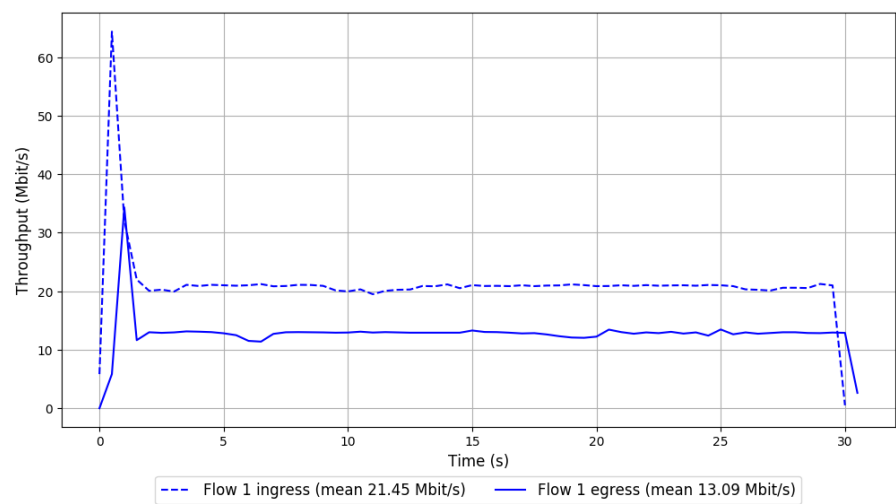
-- Flow 1:

Average throughput: 13.09 Mbit/s

95th percentile per-packet one-way delay: 86.106 ms

Loss rate: 38.99%

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

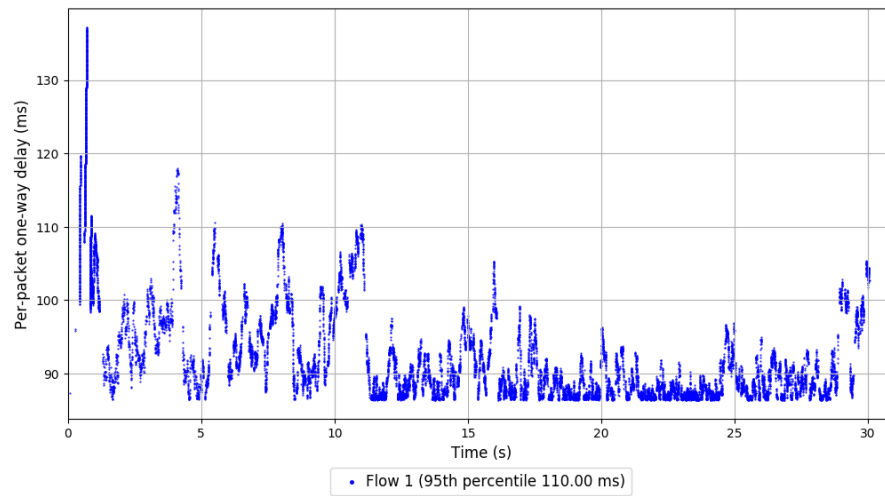
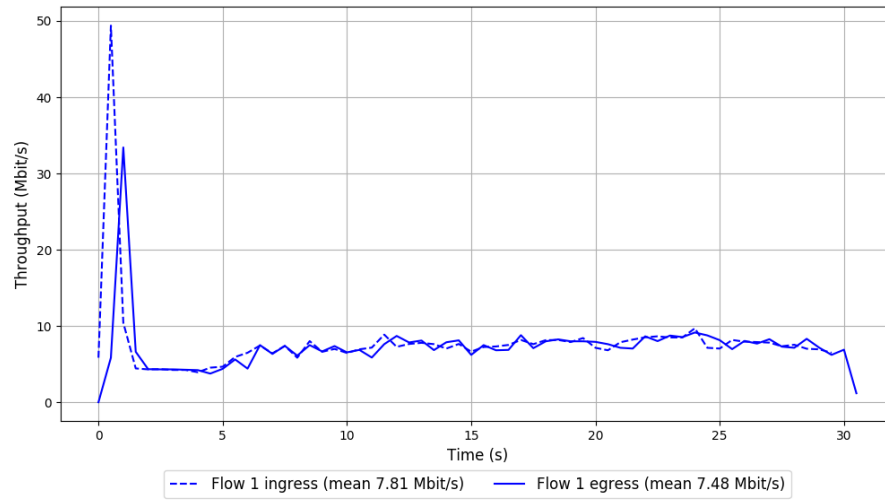


Run 7: Statistics of TaoVA-100x

Start at: 2018-08-27 22:54:42
End at: 2018-08-27 22:55:12
Local clock offset: -0.11 ms
Remote clock offset: 17.736 ms

Below is generated by plot.py at 2018-08-28 00:06:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.48 Mbit/s
95th percentile per-packet one-way delay: 110.003 ms
Loss rate: 4.10%
-- Flow 1:
Average throughput: 7.48 Mbit/s
95th percentile per-packet one-way delay: 110.003 ms
Loss rate: 4.10%

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

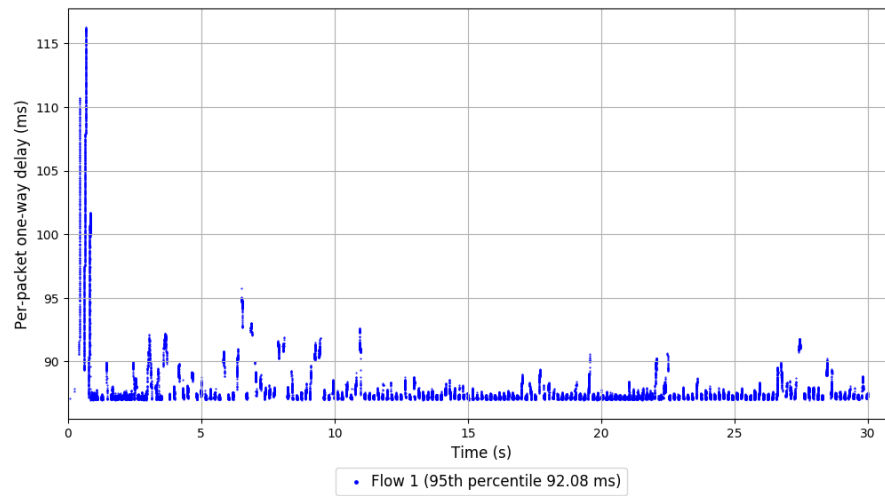
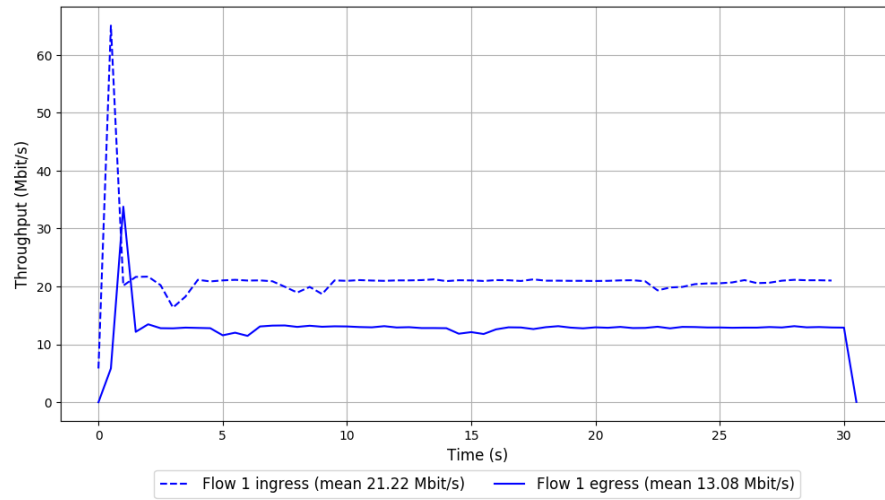


Run 8: Statistics of TaoVA-100x

Start at: 2018-08-27 23:14:12
End at: 2018-08-27 23:14:42
Local clock offset: -0.806 ms
Remote clock offset: 16.956 ms

Below is generated by plot.py at 2018-08-28 00:06:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.08 Mbit/s
95th percentile per-packet one-way delay: 92.078 ms
Loss rate: 38.33%
-- Flow 1:
Average throughput: 13.08 Mbit/s
95th percentile per-packet one-way delay: 92.078 ms
Loss rate: 38.33%

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

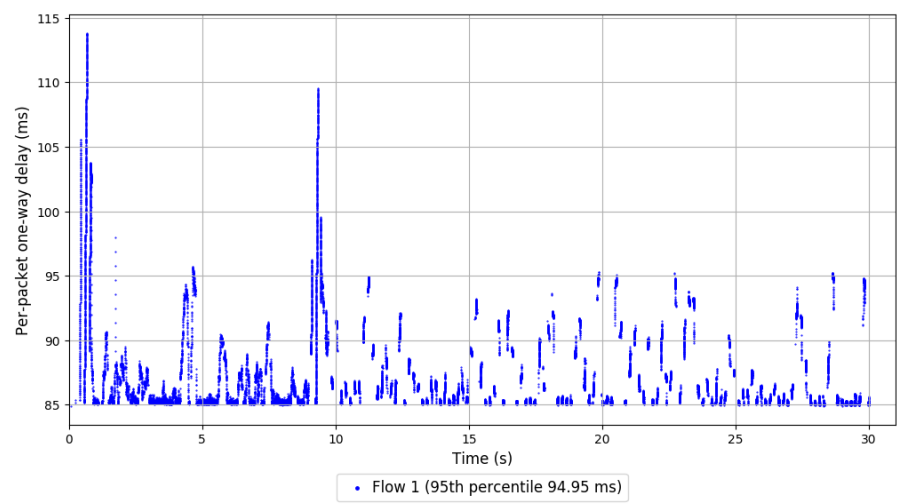
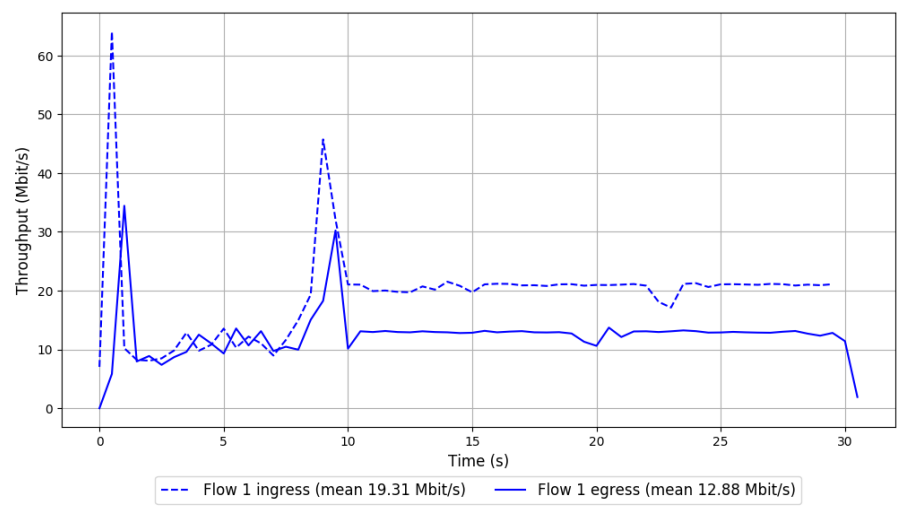


Run 9: Statistics of TaoVA-100x

Start at: 2018-08-27 23:33:44
End at: 2018-08-27 23:34:14
Local clock offset: -0.997 ms
Remote clock offset: 14.954 ms

Below is generated by plot.py at 2018-08-28 00:06:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.88 Mbit/s
95th percentile per-packet one-way delay: 94.949 ms
Loss rate: 33.30%
-- Flow 1:
Average throughput: 12.88 Mbit/s
95th percentile per-packet one-way delay: 94.949 ms
Loss rate: 33.30%

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

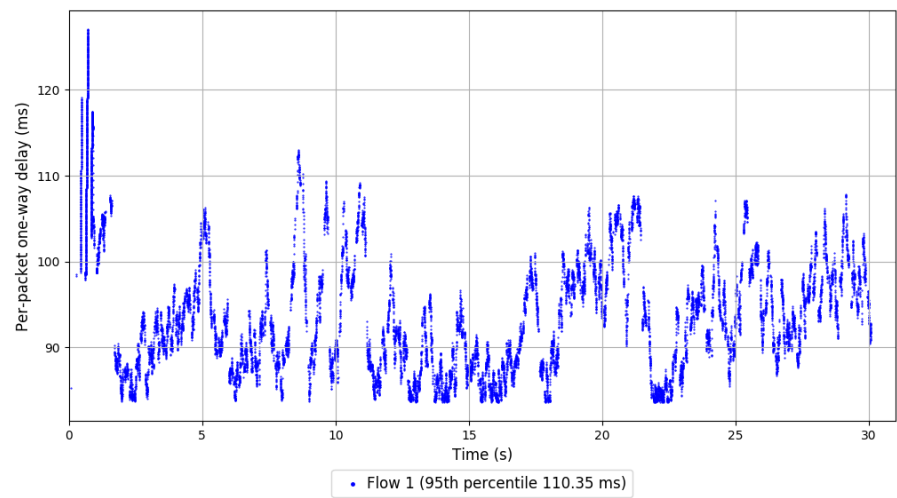
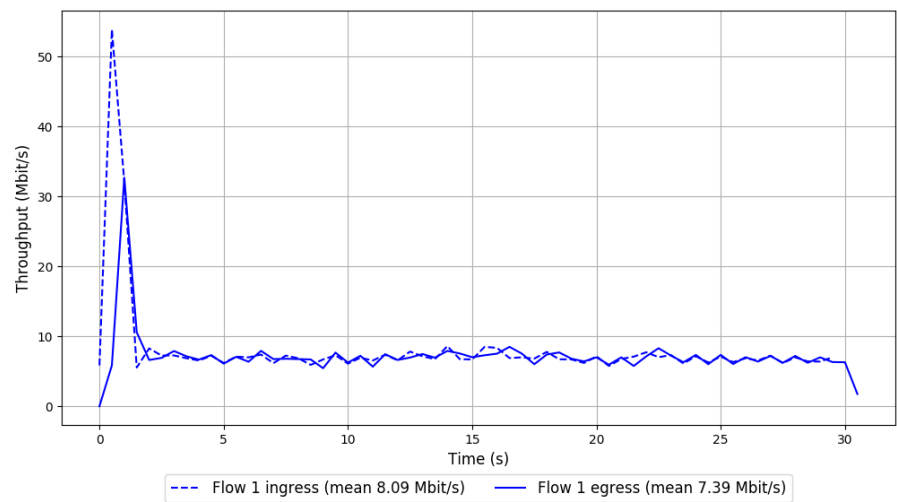


Run 10: Statistics of TaoVA-100x

Start at: 2018-08-27 23:53:25
End at: 2018-08-27 23:53:55
Local clock offset: -2.917 ms
Remote clock offset: 15.938 ms

Below is generated by plot.py at 2018-08-28 00:06:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.39 Mbit/s
95th percentile per-packet one-way delay: 110.348 ms
Loss rate: 8.60%
-- Flow 1:
Average throughput: 7.39 Mbit/s
95th percentile per-packet one-way delay: 110.348 ms
Loss rate: 8.60%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-08-27 20:55:55

End at: 2018-08-27 20:56:25

Local clock offset: 4.422 ms

Remote clock offset: 5.709 ms

Below is generated by plot.py at 2018-08-28 00:07:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.32 Mbit/s

95th percentile per-packet one-way delay: 83.134 ms

Loss rate: 0.46%

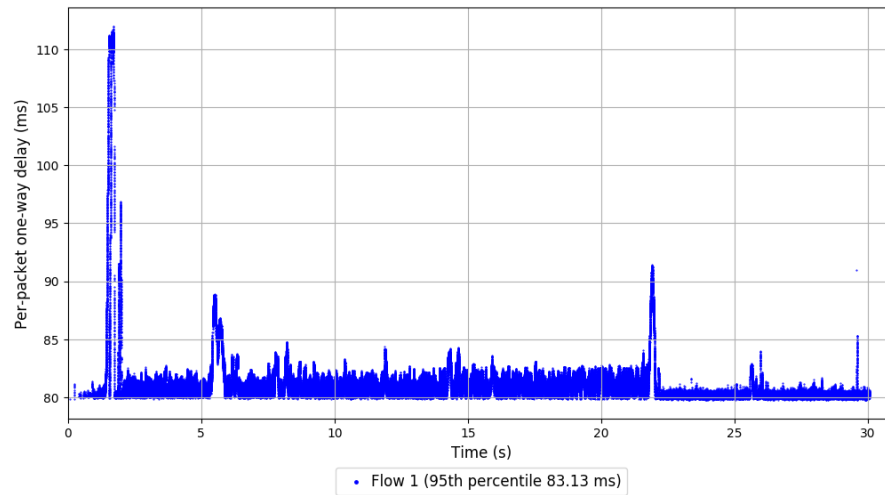
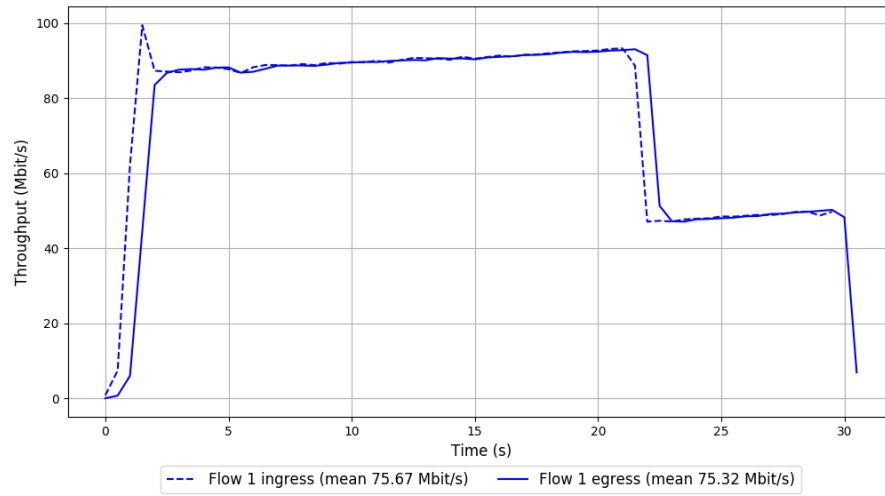
-- Flow 1:

Average throughput: 75.32 Mbit/s

95th percentile per-packet one-way delay: 83.134 ms

Loss rate: 0.46%

Run 1: Report of TCP Vegas — Data Link

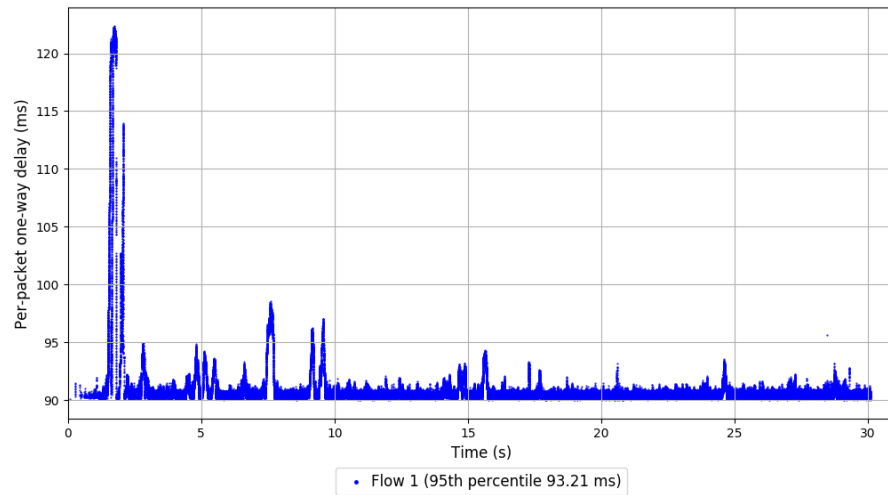
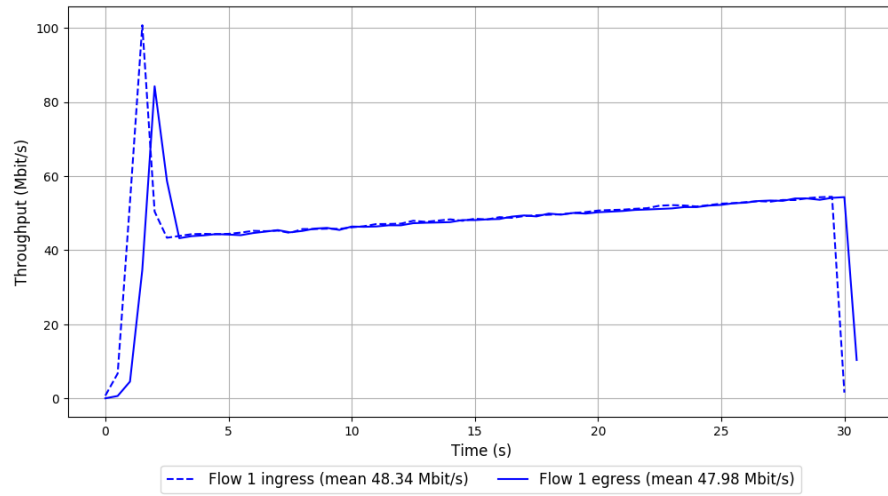


Run 2: Statistics of TCP Vegas

Start at: 2018-08-27 21:15:29
End at: 2018-08-27 21:15:59
Local clock offset: 3.472 ms
Remote clock offset: 13.328 ms

Below is generated by plot.py at 2018-08-28 00:07:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 47.98 Mbit/s
95th percentile per-packet one-way delay: 93.213 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 47.98 Mbit/s
95th percentile per-packet one-way delay: 93.213 ms
Loss rate: 0.76%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-08-27 21:35:03

End at: 2018-08-27 21:35:33

Local clock offset: 2.771 ms

Remote clock offset: 7.961 ms

Below is generated by plot.py at 2018-08-28 00:07:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.43 Mbit/s

95th percentile per-packet one-way delay: 83.899 ms

Loss rate: 0.39%

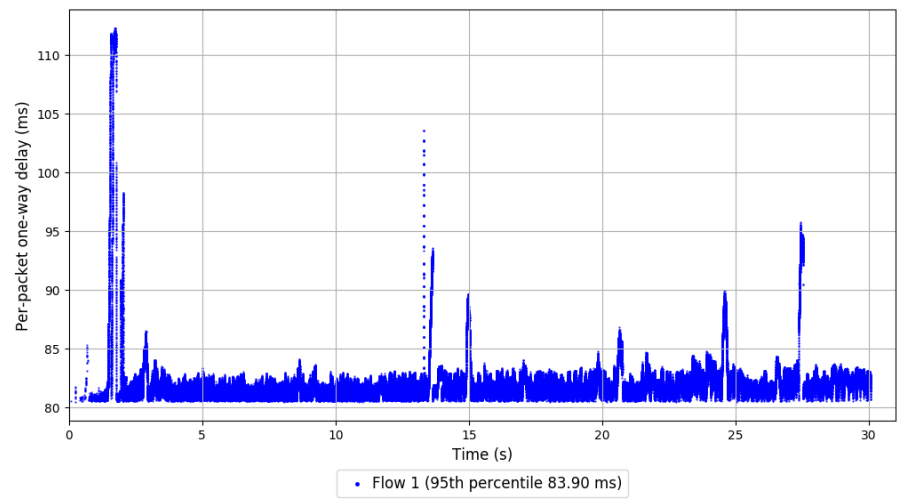
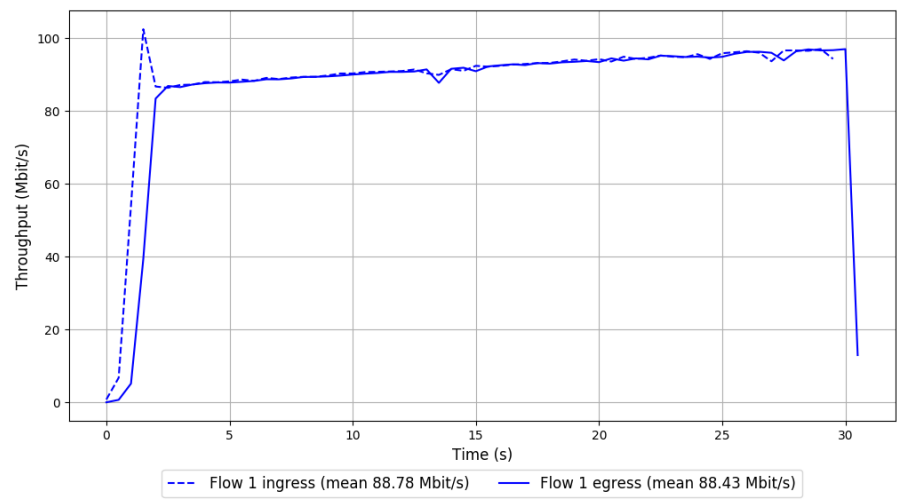
-- Flow 1:

Average throughput: 88.43 Mbit/s

95th percentile per-packet one-way delay: 83.899 ms

Loss rate: 0.39%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-08-27 21:54:40

End at: 2018-08-27 21:55:10

Local clock offset: -0.202 ms

Remote clock offset: 9.884 ms

Below is generated by plot.py at 2018-08-28 00:07:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.91 Mbit/s

95th percentile per-packet one-way delay: 88.808 ms

Loss rate: 0.45%

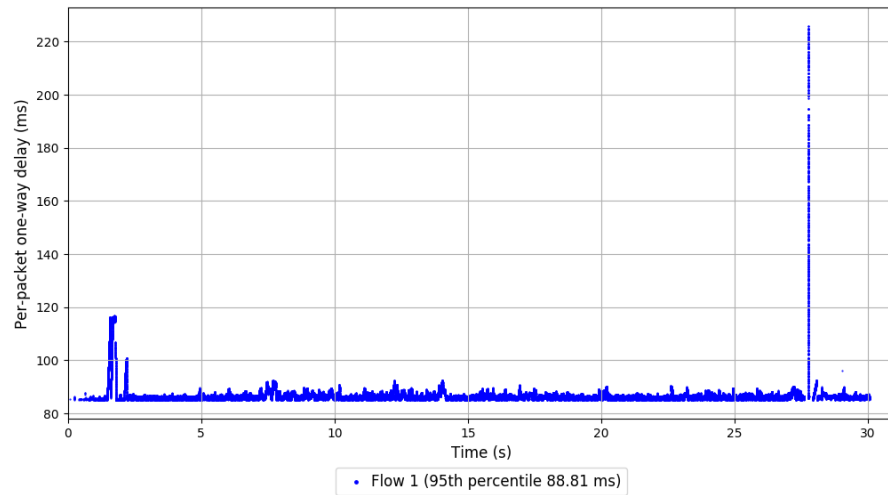
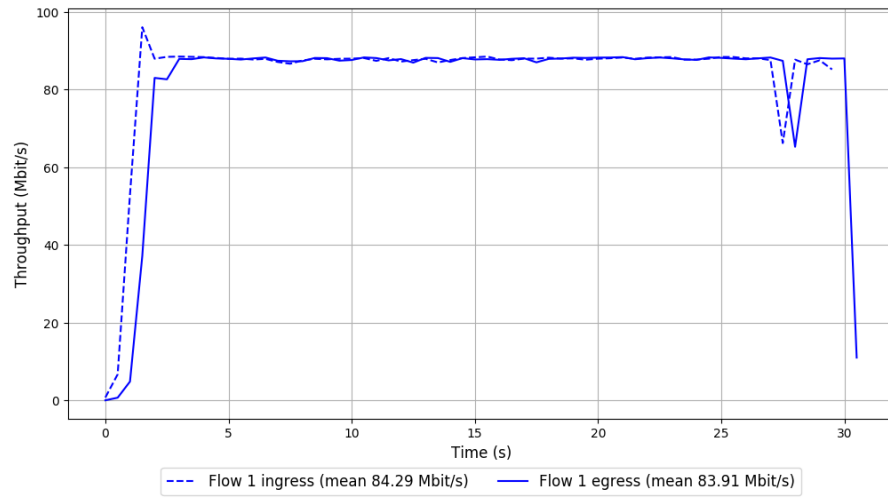
-- Flow 1:

Average throughput: 83.91 Mbit/s

95th percentile per-packet one-way delay: 88.808 ms

Loss rate: 0.45%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-08-27 22:14:15

End at: 2018-08-27 22:14:45

Local clock offset: 2.56 ms

Remote clock offset: 9.405 ms

Below is generated by plot.py at 2018-08-28 00:07:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.29 Mbit/s

95th percentile per-packet one-way delay: 84.141 ms

Loss rate: 0.41%

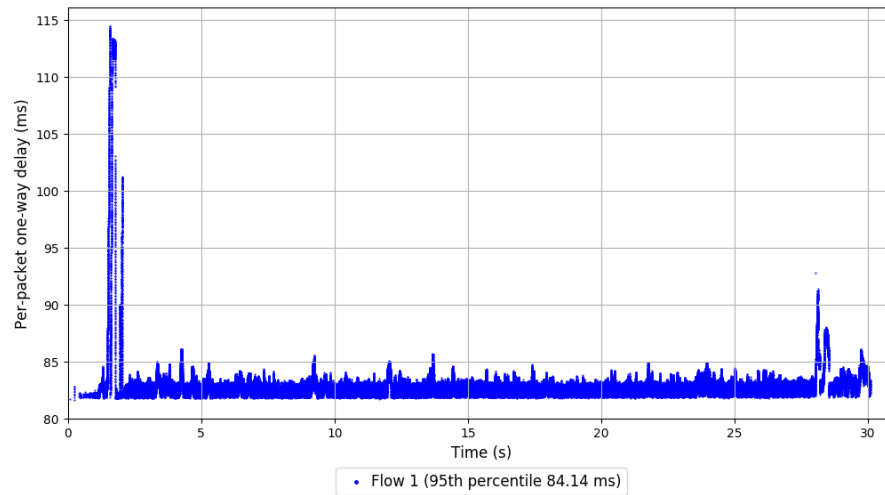
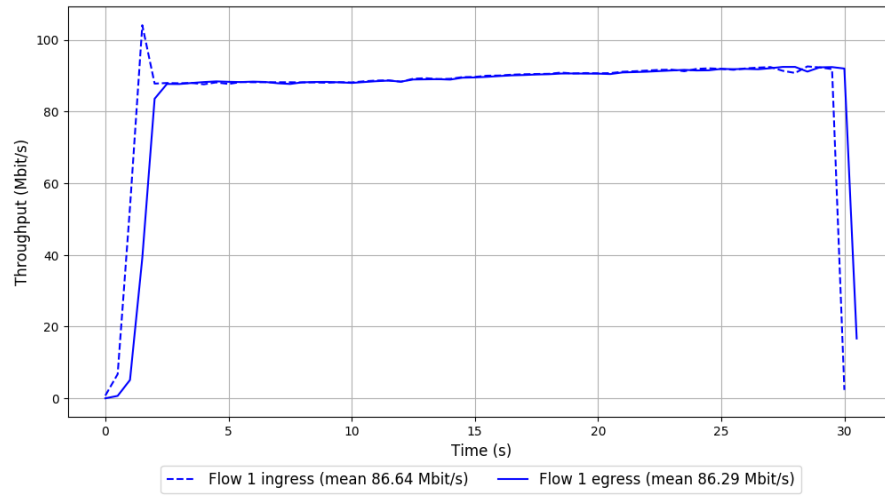
-- Flow 1:

Average throughput: 86.29 Mbit/s

95th percentile per-packet one-way delay: 84.141 ms

Loss rate: 0.41%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-08-27 22:33:50

End at: 2018-08-27 22:34:20

Local clock offset: 3.284 ms

Remote clock offset: 9.452 ms

Below is generated by plot.py at 2018-08-28 00:07:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.48 Mbit/s

95th percentile per-packet one-way delay: 88.727 ms

Loss rate: 0.46%

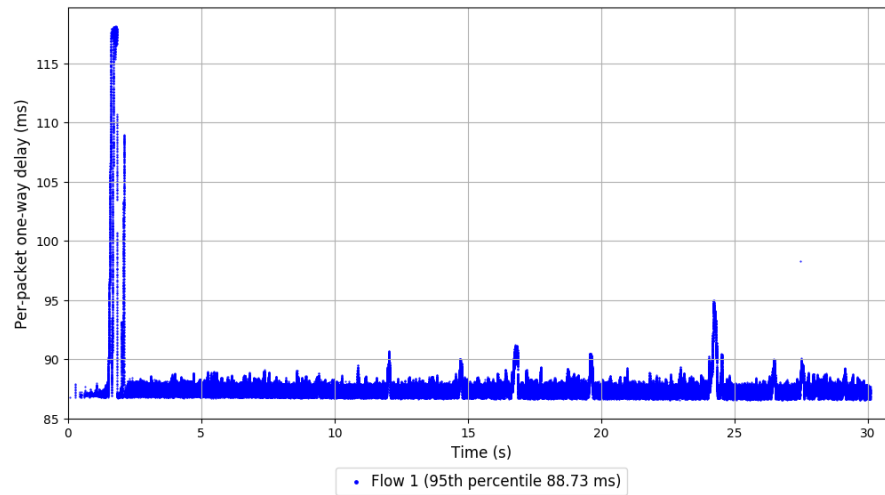
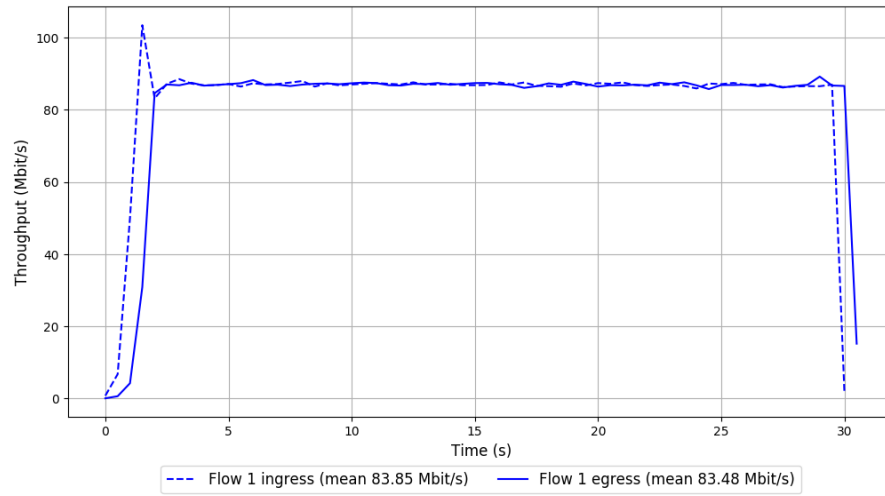
-- Flow 1:

Average throughput: 83.48 Mbit/s

95th percentile per-packet one-way delay: 88.727 ms

Loss rate: 0.46%

Run 6: Report of TCP Vegas — Data Link

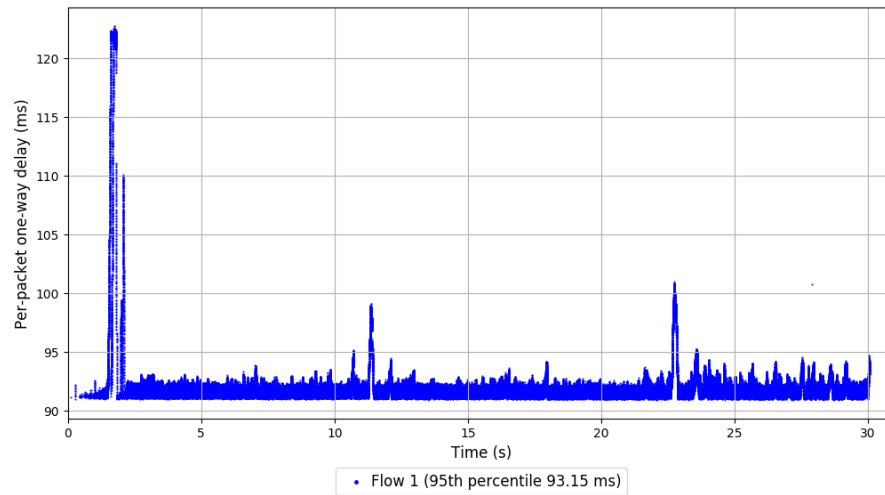
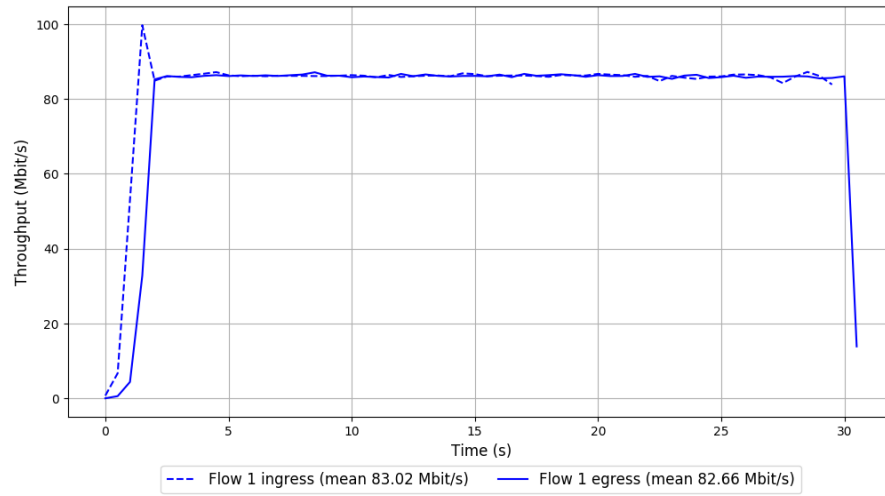


Run 7: Statistics of TCP Vegas

Start at: 2018-08-27 22:53:32
End at: 2018-08-27 22:54:02
Local clock offset: -0.038 ms
Remote clock offset: 15.301 ms

Below is generated by plot.py at 2018-08-28 00:07:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 82.66 Mbit/s
95th percentile per-packet one-way delay: 93.152 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 82.66 Mbit/s
95th percentile per-packet one-way delay: 93.152 ms
Loss rate: 0.44%

Run 7: Report of TCP Vegas — Data Link

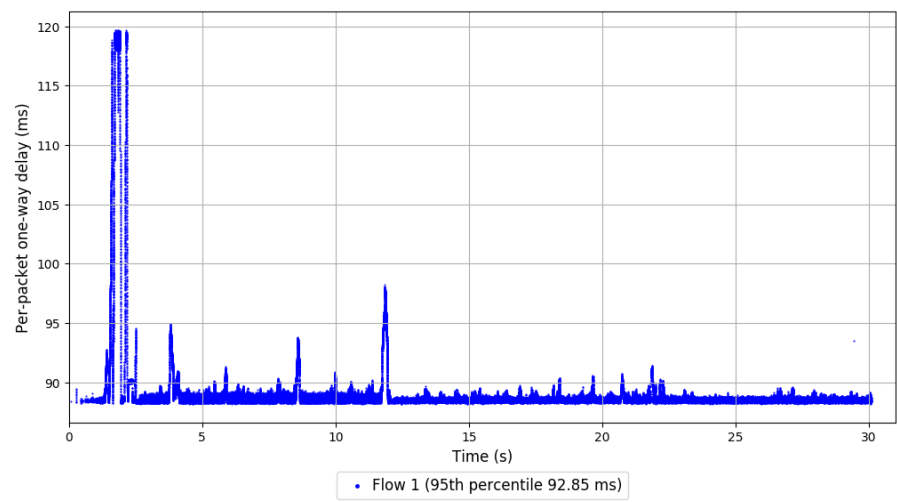
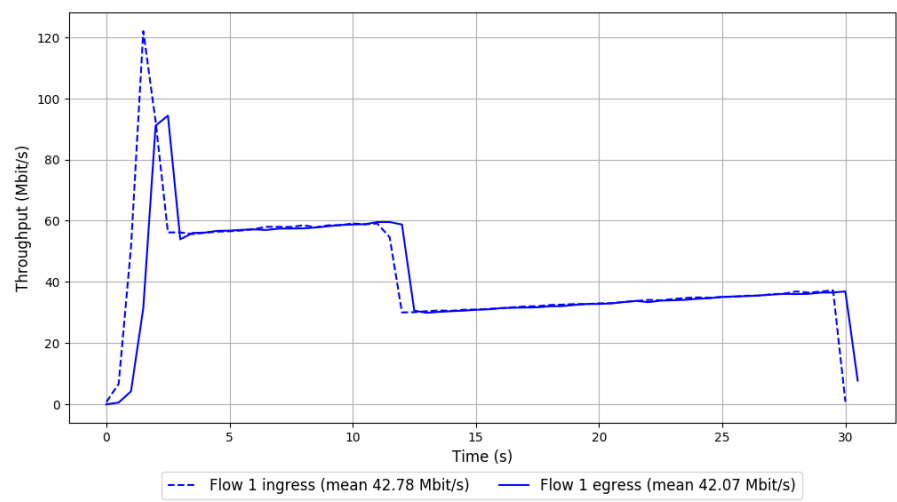


Run 8: Statistics of TCP Vegas

Start at: 2018-08-27 23:13:03
End at: 2018-08-27 23:13:33
Local clock offset: -0.81 ms
Remote clock offset: 13.099 ms

Below is generated by plot.py at 2018-08-28 00:07:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 42.07 Mbit/s
95th percentile per-packet one-way delay: 92.847 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 42.07 Mbit/s
95th percentile per-packet one-way delay: 92.847 ms
Loss rate: 1.68%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-08-27 23:32:35

End at: 2018-08-27 23:33:05

Local clock offset: -0.539 ms

Remote clock offset: 14.9 ms

Below is generated by plot.py at 2018-08-28 00:07:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.23 Mbit/s

95th percentile per-packet one-way delay: 93.607 ms

Loss rate: 1.42%

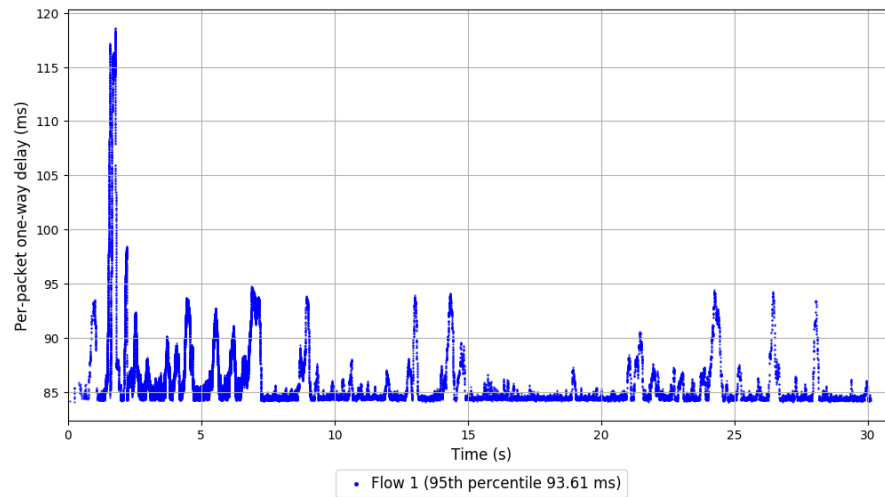
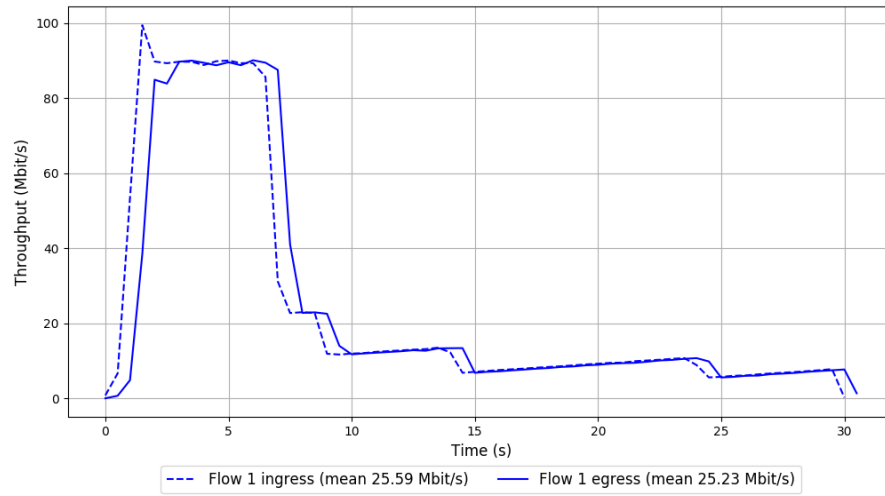
-- Flow 1:

Average throughput: 25.23 Mbit/s

95th percentile per-packet one-way delay: 93.607 ms

Loss rate: 1.42%

Run 9: Report of TCP Vegas — Data Link

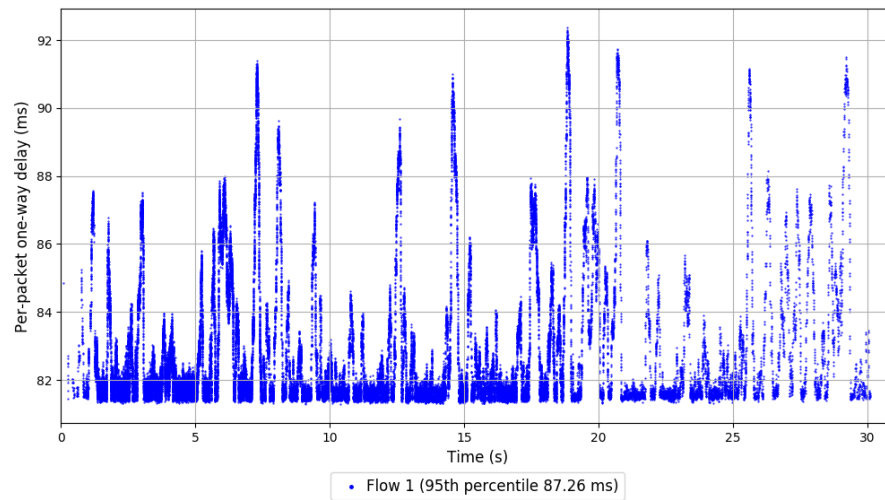
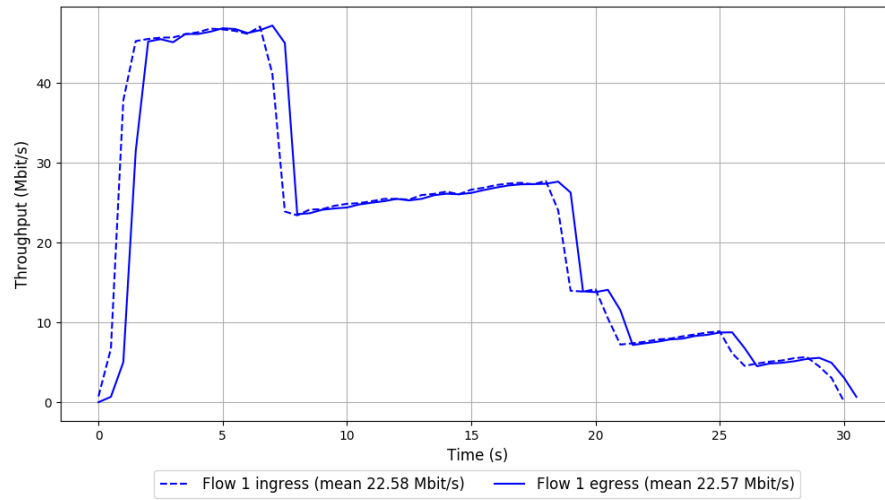


Run 10: Statistics of TCP Vegas

Start at: 2018-08-27 23:52:17
End at: 2018-08-27 23:52:47
Local clock offset: -2.834 ms
Remote clock offset: 12.184 ms

Below is generated by plot.py at 2018-08-28 00:07:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 22.57 Mbit/s
95th percentile per-packet one-way delay: 87.263 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 22.57 Mbit/s
95th percentile per-packet one-way delay: 87.263 ms
Loss rate: 0.05%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-08-27 20:43:15

End at: 2018-08-27 20:43:46

Local clock offset: 4.169 ms

Remote clock offset: 6.623 ms

Below is generated by plot.py at 2018-08-28 00:07:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.24 Mbit/s

95th percentile per-packet one-way delay: 157.486 ms

Loss rate: 71.40%

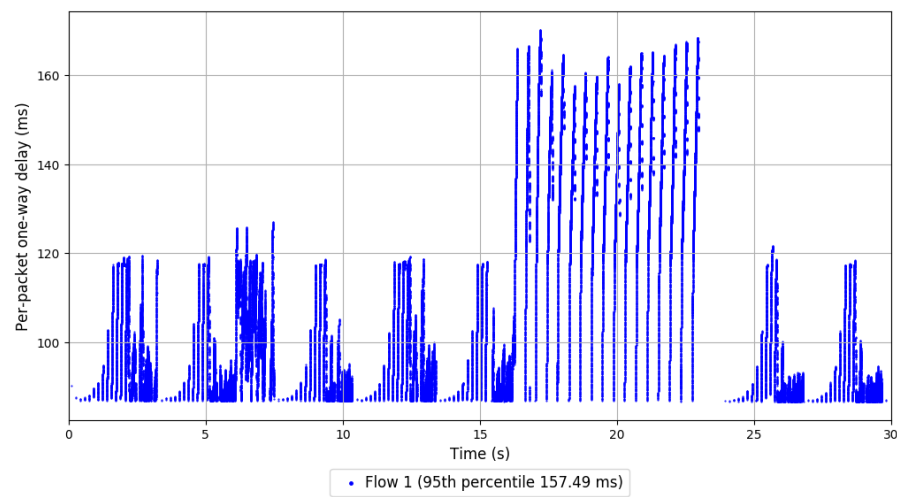
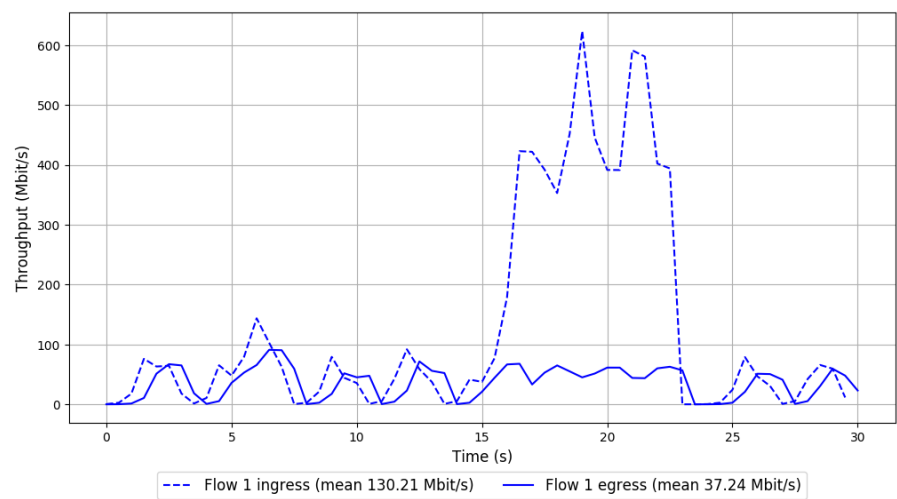
-- Flow 1:

Average throughput: 37.24 Mbit/s

95th percentile per-packet one-way delay: 157.486 ms

Loss rate: 71.40%

Run 1: Report of Verus — Data Link

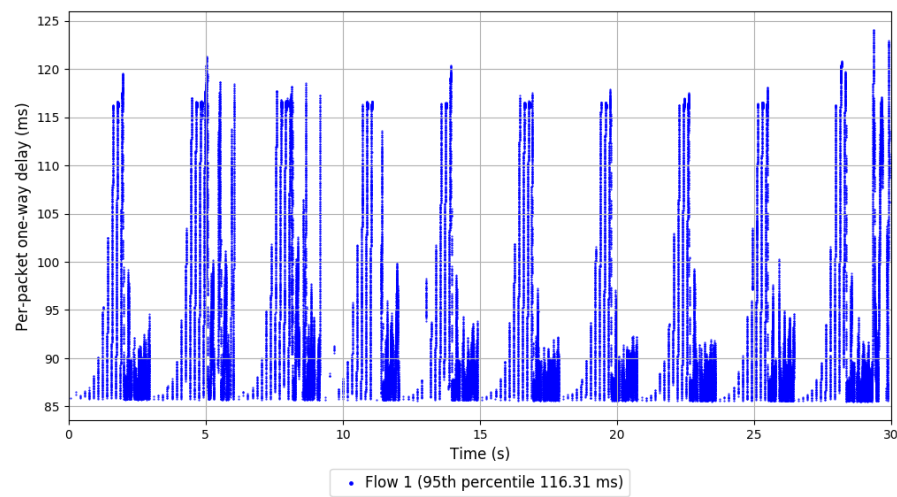
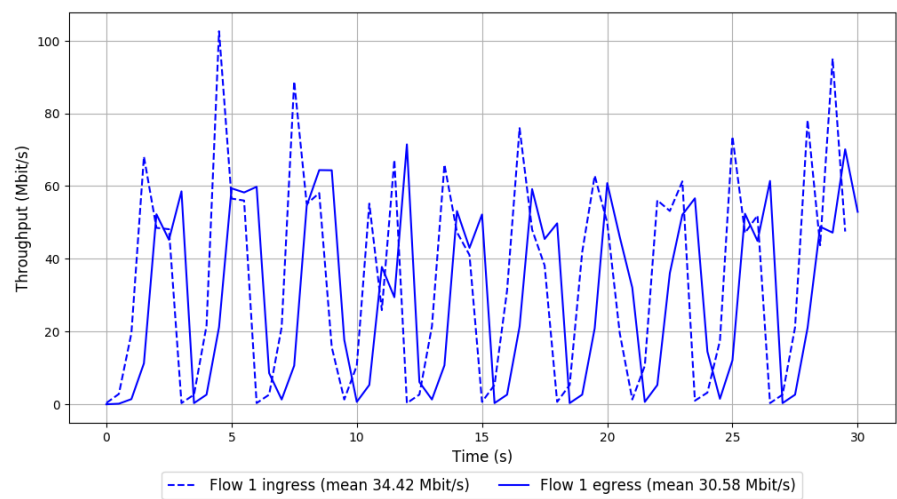


Run 2: Statistics of Verus

Start at: 2018-08-27 21:02:51
End at: 2018-08-27 21:03:21
Local clock offset: 4.486 ms
Remote clock offset: 12.173 ms

Below is generated by plot.py at 2018-08-28 00:07:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 30.58 Mbit/s
95th percentile per-packet one-way delay: 116.305 ms
Loss rate: 11.08%
-- Flow 1:
Average throughput: 30.58 Mbit/s
95th percentile per-packet one-way delay: 116.305 ms
Loss rate: 11.08%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-08-27 21:22:24

End at: 2018-08-27 21:22:54

Local clock offset: 2.522 ms

Remote clock offset: 12.68 ms

Below is generated by plot.py at 2018-08-28 00:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.48 Mbit/s

95th percentile per-packet one-way delay: 130.928 ms

Loss rate: 56.04%

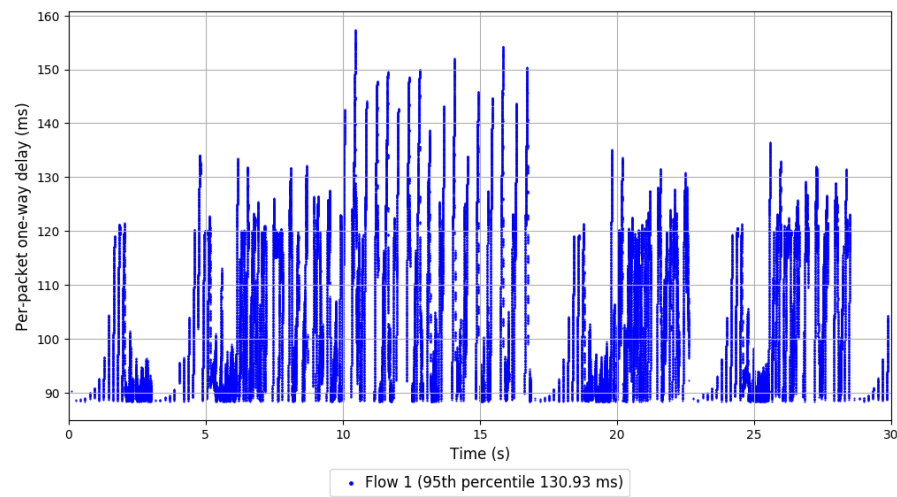
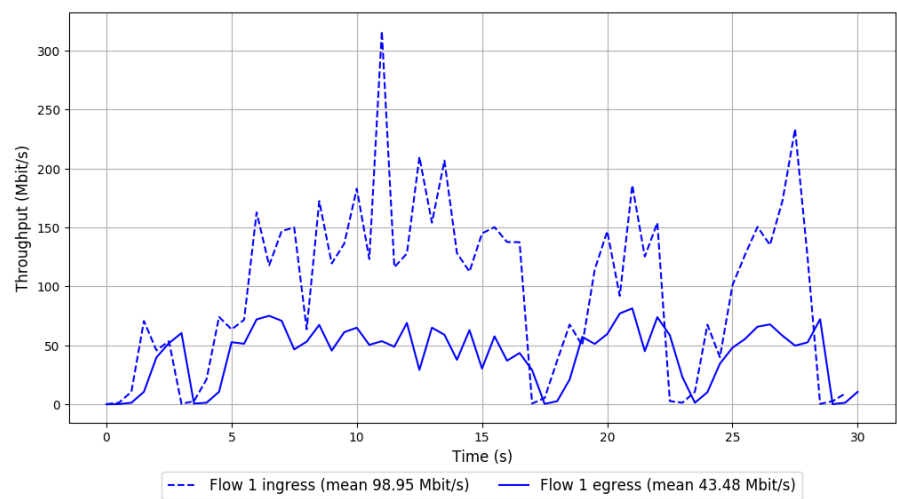
-- Flow 1:

Average throughput: 43.48 Mbit/s

95th percentile per-packet one-way delay: 130.928 ms

Loss rate: 56.04%

Run 3: Report of Verus — Data Link

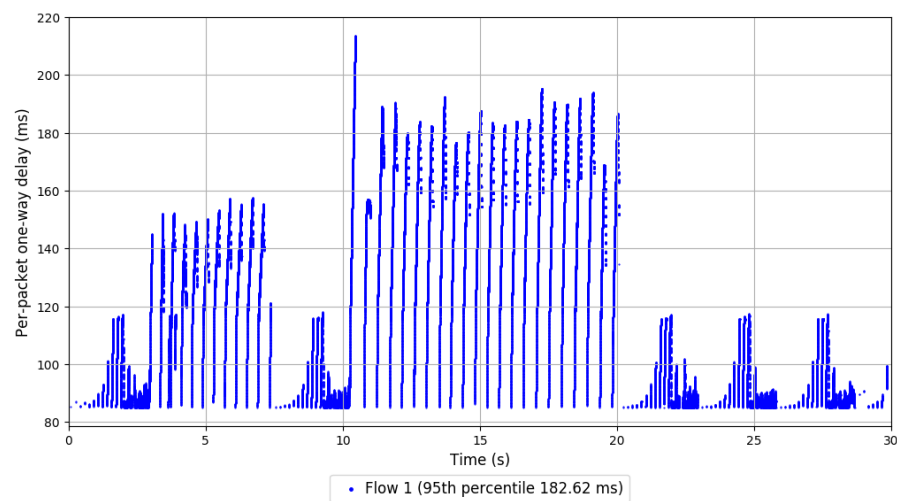
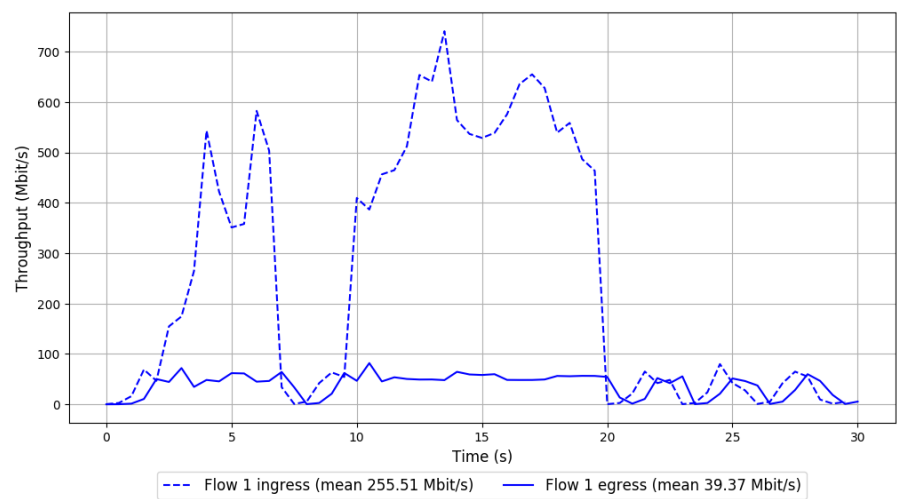


Run 4: Statistics of Verus

Start at: 2018-08-27 21:42:00
End at: 2018-08-27 21:42:30
Local clock offset: 1.045 ms
Remote clock offset: 12.473 ms

Below is generated by plot.py at 2018-08-28 00:08:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 39.37 Mbit/s
95th percentile per-packet one-way delay: 182.616 ms
Loss rate: 84.58%
-- Flow 1:
Average throughput: 39.37 Mbit/s
95th percentile per-packet one-way delay: 182.616 ms
Loss rate: 84.58%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-08-27 22:01:37

End at: 2018-08-27 22:02:07

Local clock offset: -0.352 ms

Remote clock offset: 9.591 ms

Below is generated by plot.py at 2018-08-28 00:08:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.88 Mbit/s

95th percentile per-packet one-way delay: 111.831 ms

Loss rate: 31.46%

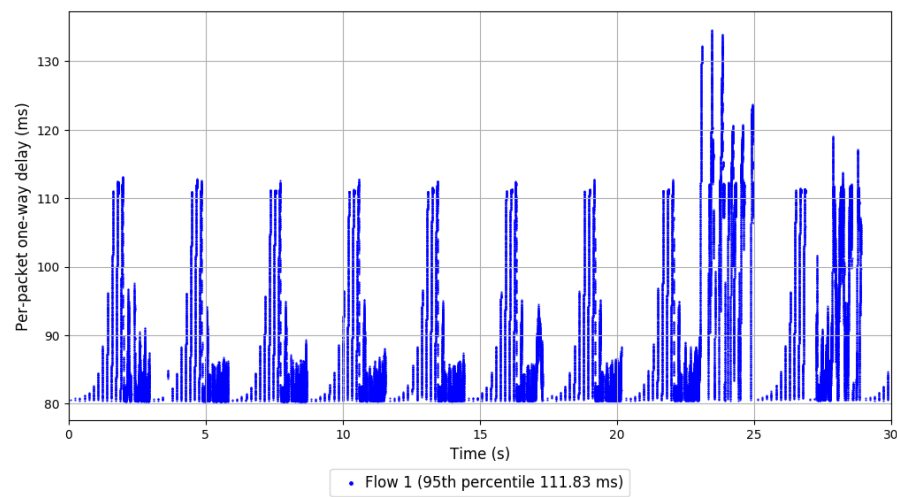
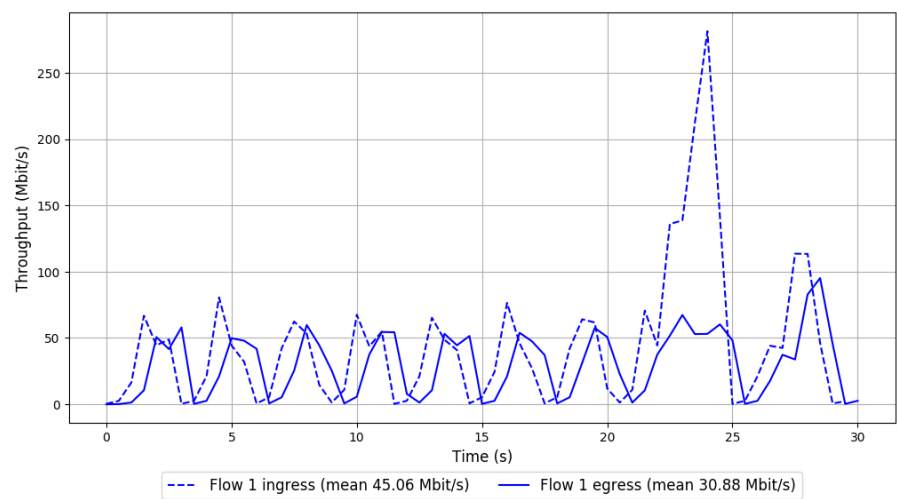
-- Flow 1:

Average throughput: 30.88 Mbit/s

95th percentile per-packet one-way delay: 111.831 ms

Loss rate: 31.46%

Run 5: Report of Verus — Data Link

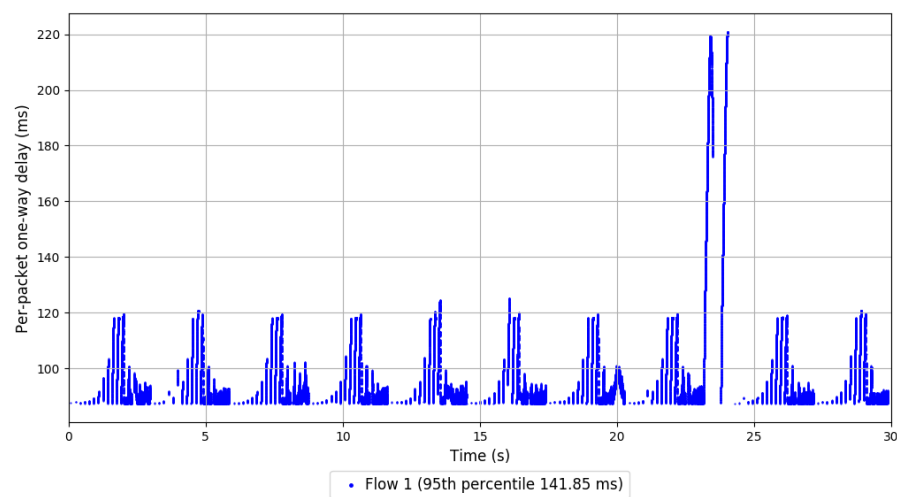
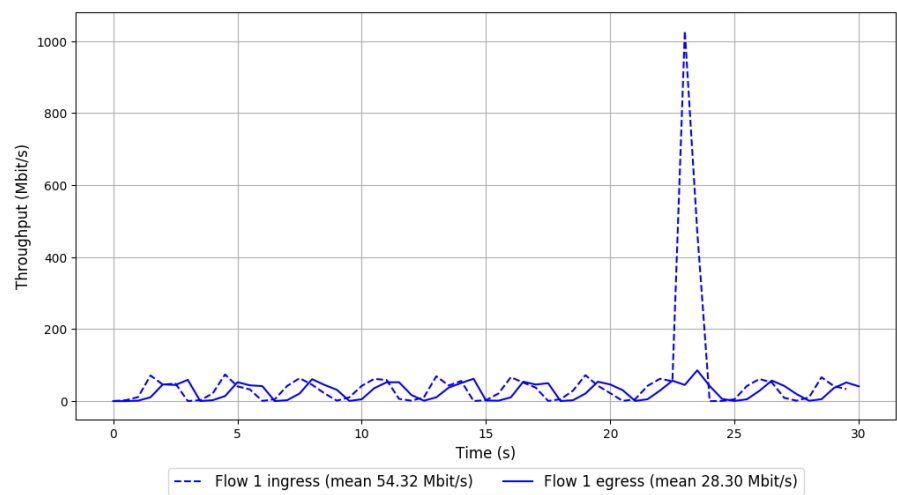


Run 6: Statistics of Verus

Start at: 2018-08-27 22:21:11
End at: 2018-08-27 22:21:41
Local clock offset: 4.021 ms
Remote clock offset: 15.239 ms

Below is generated by plot.py at 2018-08-28 00:08:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 28.30 Mbit/s
95th percentile per-packet one-way delay: 141.855 ms
Loss rate: 47.90%
-- Flow 1:
Average throughput: 28.30 Mbit/s
95th percentile per-packet one-way delay: 141.855 ms
Loss rate: 47.90%

Run 6: Report of Verus — Data Link

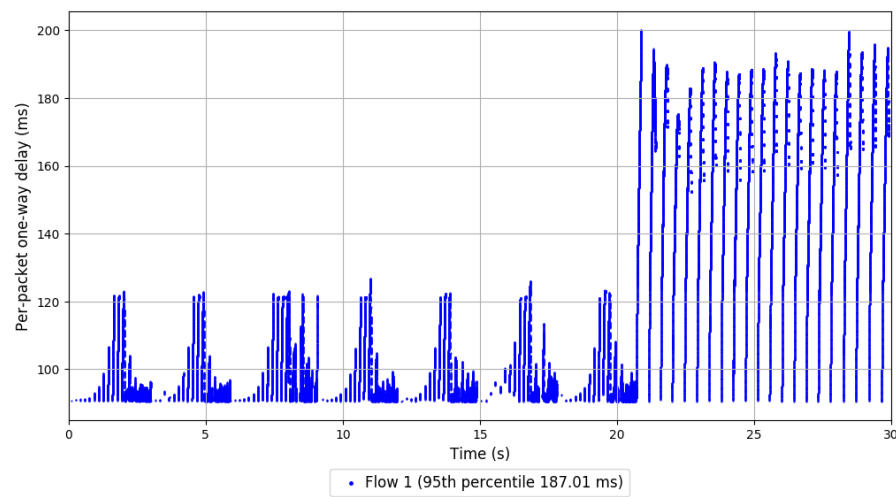
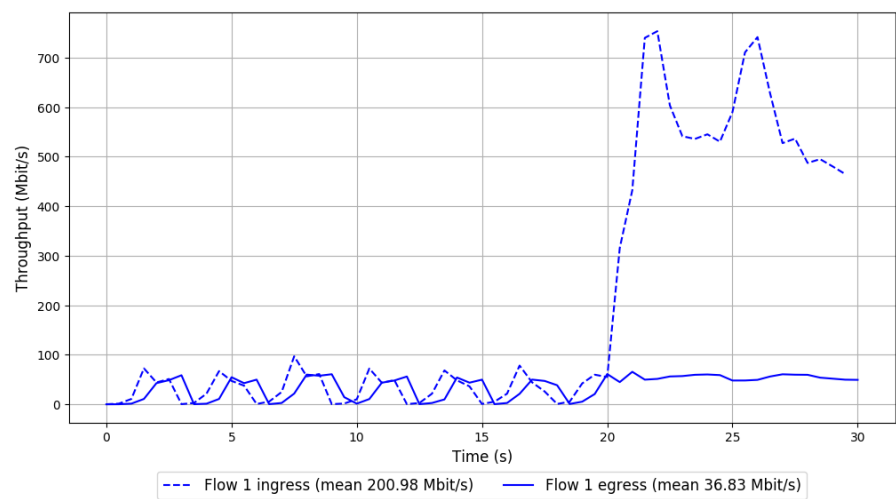


Run 7: Statistics of Verus

Start at: 2018-08-27 22:40:51
End at: 2018-08-27 22:41:21
Local clock offset: 1.272 ms
Remote clock offset: 15.201 ms

Below is generated by plot.py at 2018-08-28 00:08:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 36.83 Mbit/s
95th percentile per-packet one-way delay: 187.010 ms
Loss rate: 81.63%
-- Flow 1:
Average throughput: 36.83 Mbit/s
95th percentile per-packet one-way delay: 187.010 ms
Loss rate: 81.63%

Run 7: Report of Verus — Data Link

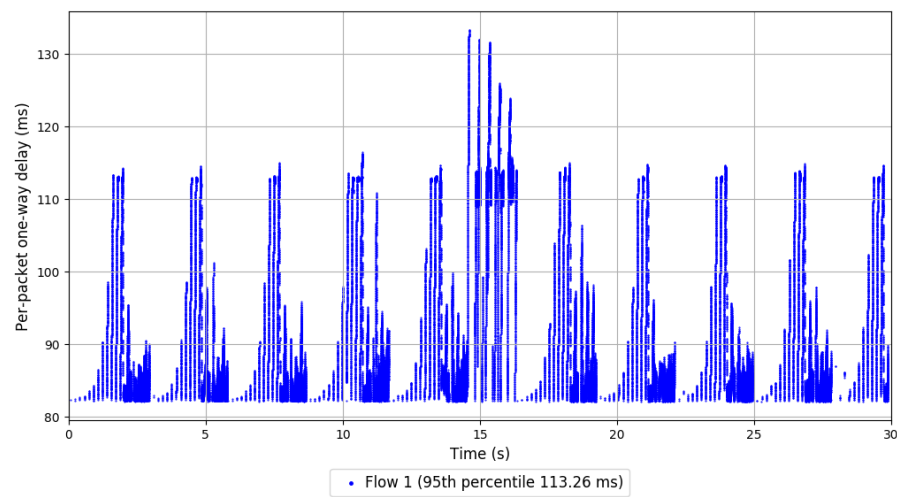
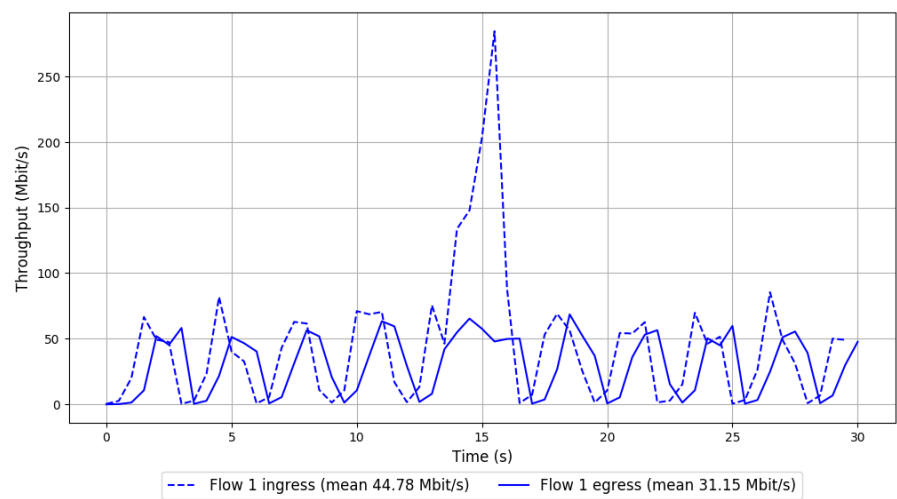


Run 8: Statistics of Verus

Start at: 2018-08-27 23:00:27
End at: 2018-08-27 23:00:57
Local clock offset: 0.435 ms
Remote clock offset: 13.281 ms

Below is generated by plot.py at 2018-08-28 00:08:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 31.15 Mbit/s
95th percentile per-packet one-way delay: 113.257 ms
Loss rate: 30.42%
-- Flow 1:
Average throughput: 31.15 Mbit/s
95th percentile per-packet one-way delay: 113.257 ms
Loss rate: 30.42%

Run 8: Report of Verus — Data Link

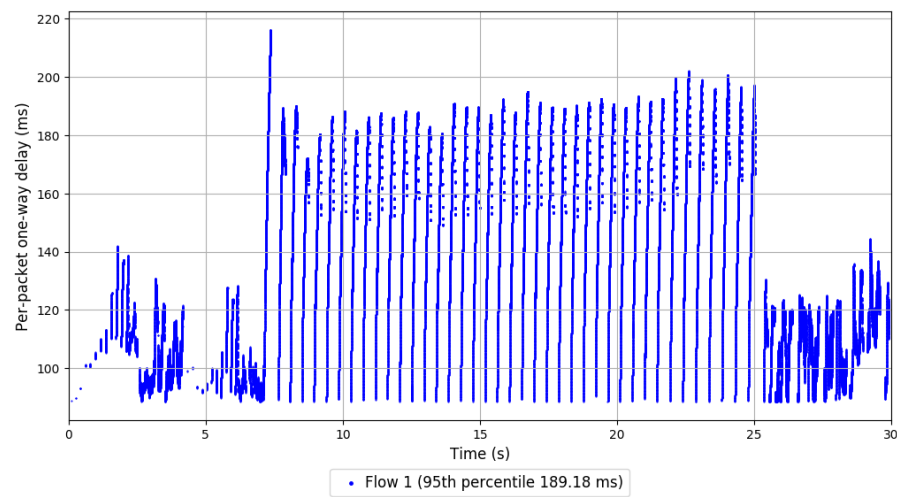
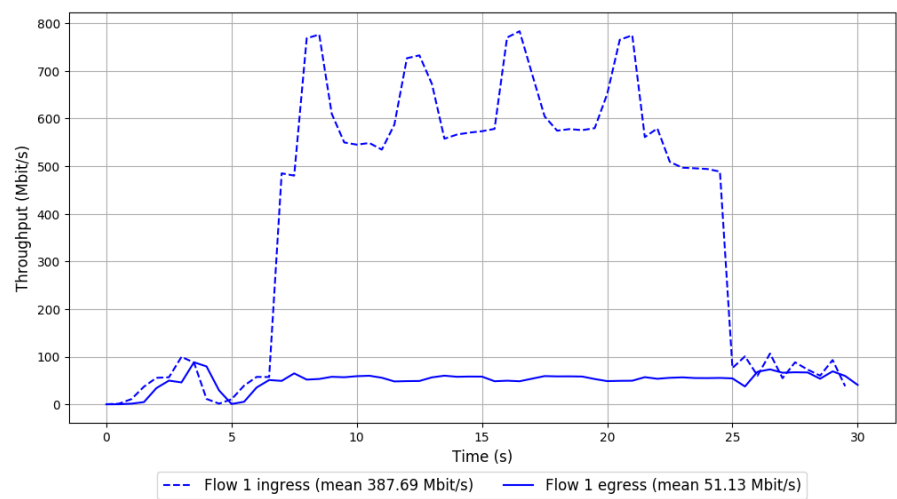


Run 9: Statistics of Verus

Start at: 2018-08-27 23:19:56
End at: 2018-08-27 23:20:26
Local clock offset: -0.169 ms
Remote clock offset: 15.582 ms

Below is generated by plot.py at 2018-08-28 00:09:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 51.13 Mbit/s
95th percentile per-packet one-way delay: 189.180 ms
Loss rate: 86.80%
-- Flow 1:
Average throughput: 51.13 Mbit/s
95th percentile per-packet one-way delay: 189.180 ms
Loss rate: 86.80%

Run 9: Report of Verus — Data Link

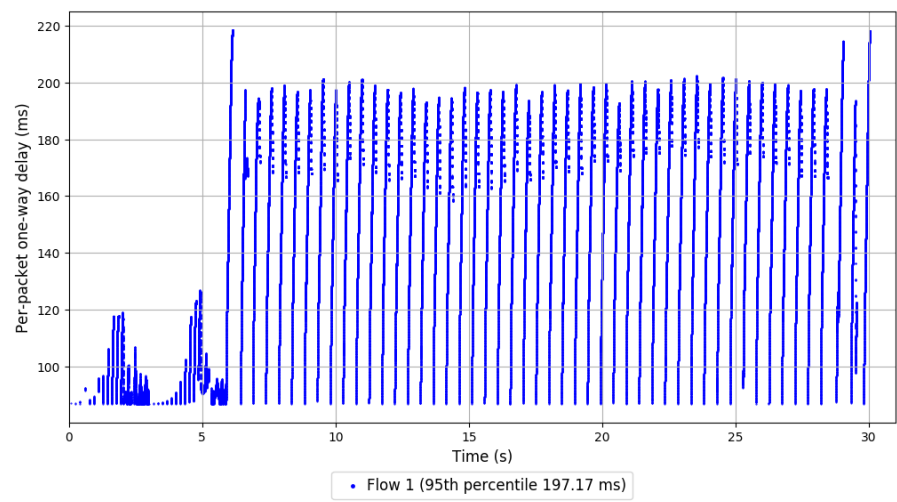
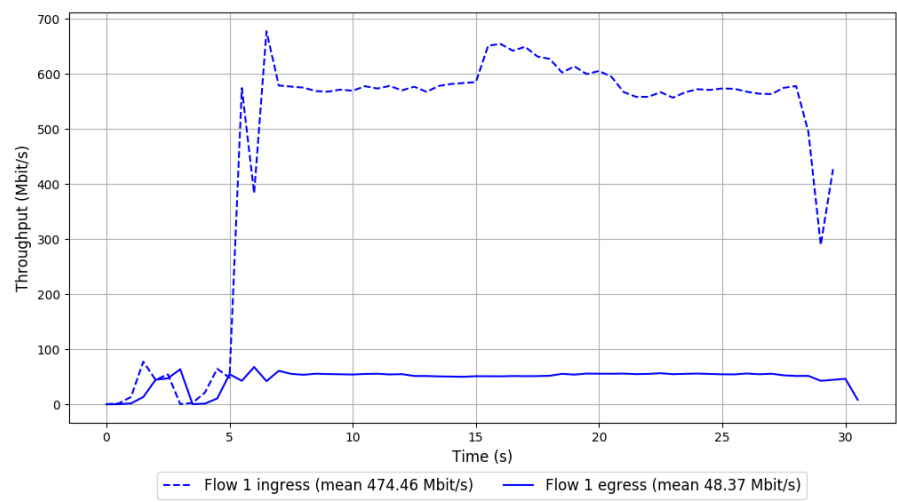


Run 10: Statistics of Verus

Start at: 2018-08-27 23:39:35
End at: 2018-08-27 23:40:05
Local clock offset: -2.93 ms
Remote clock offset: 12.109 ms

Below is generated by plot.py at 2018-08-28 00:09:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 48.37 Mbit/s
95th percentile per-packet one-way delay: 197.170 ms
Loss rate: 89.76%
-- Flow 1:
Average throughput: 48.37 Mbit/s
95th percentile per-packet one-way delay: 197.170 ms
Loss rate: 89.76%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-08-27 20:47:54

End at: 2018-08-27 20:48:24

Local clock offset: 3.69 ms

Remote clock offset: 8.235 ms

Below is generated by plot.py at 2018-08-28 00:09:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.49 Mbit/s

95th percentile per-packet one-way delay: 95.078 ms

Loss rate: 0.07%

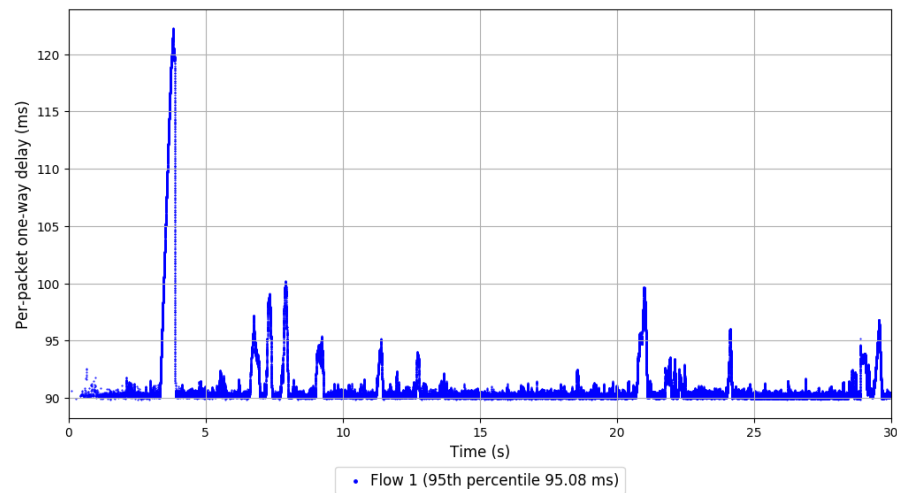
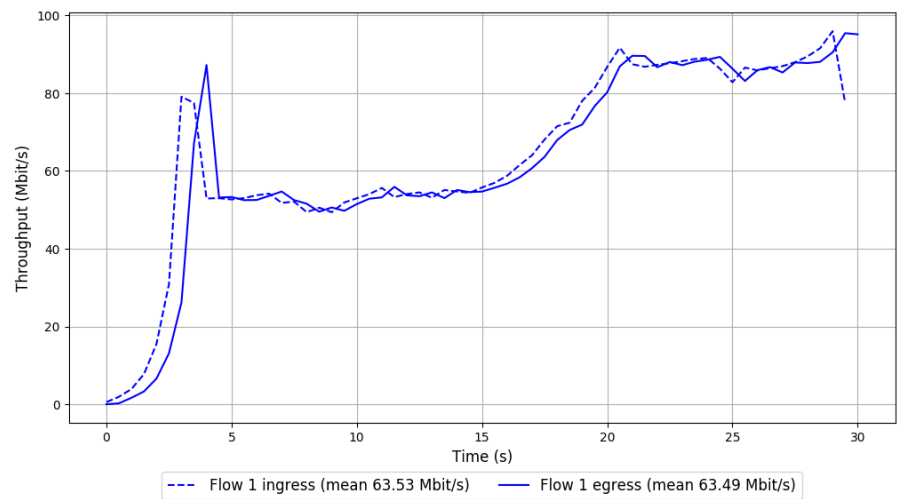
-- Flow 1:

Average throughput: 63.49 Mbit/s

95th percentile per-packet one-way delay: 95.078 ms

Loss rate: 0.07%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-08-27 21:07:29

End at: 2018-08-27 21:07:59

Local clock offset: 4.216 ms

Remote clock offset: 12.942 ms

Below is generated by plot.py at 2018-08-28 00:09:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.29 Mbit/s

95th percentile per-packet one-way delay: 90.434 ms

Loss rate: 0.03%

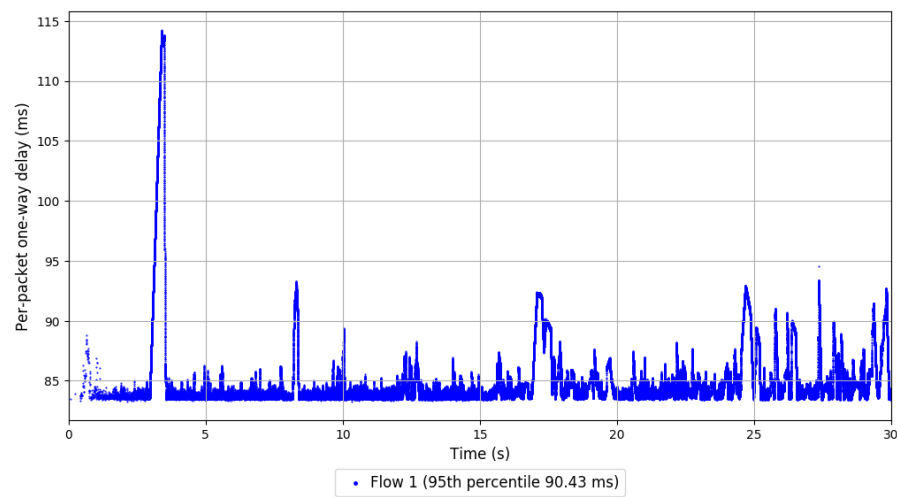
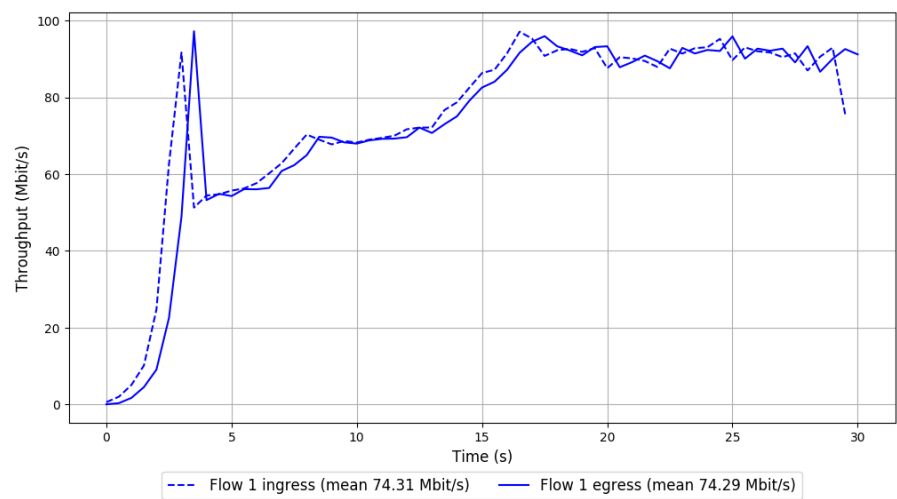
-- Flow 1:

Average throughput: 74.29 Mbit/s

95th percentile per-packet one-way delay: 90.434 ms

Loss rate: 0.03%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-08-27 21:27:03

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

Local clock offset: 2.533 ms

Remote clock offset: 10.069 ms

Below is generated by plot.py at 2018-08-28 00:09:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.32 Mbit/s

95th percentile per-packet one-way delay: 89.608 ms

Loss rate: 0.05%

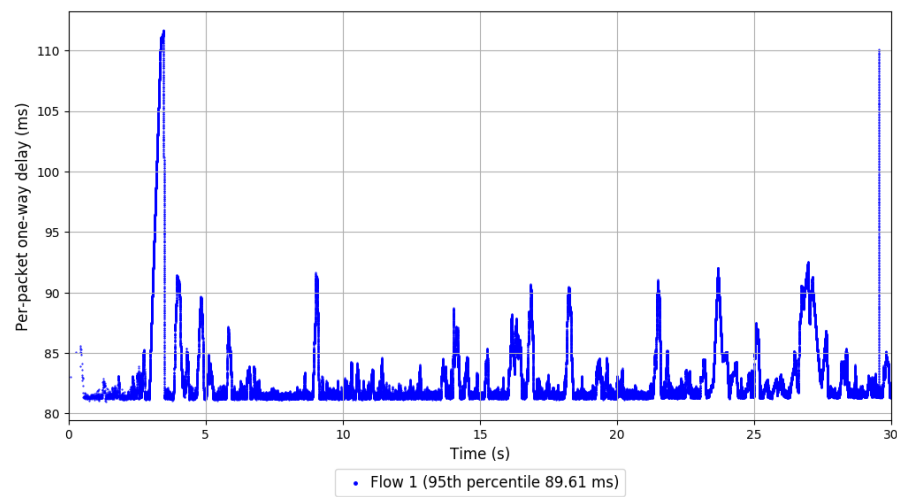
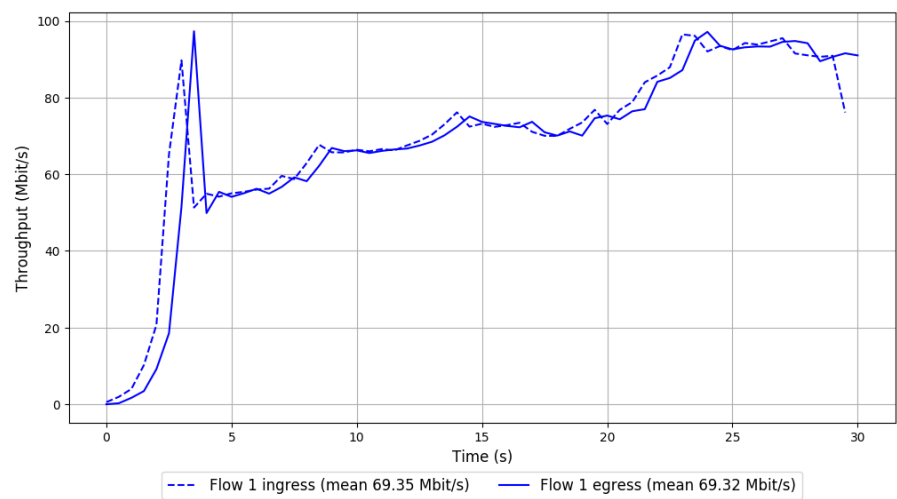
-- Flow 1:

Average throughput: 69.32 Mbit/s

95th percentile per-packet one-way delay: 89.608 ms

Loss rate: 0.05%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-08-27 21:46:40

End at: 2018-08-27 21:47:10

Local clock offset: -0.009 ms

Remote clock offset: 9.237 ms

Below is generated by plot.py at 2018-08-28 00:09:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.21 Mbit/s

95th percentile per-packet one-way delay: 115.093 ms

Loss rate: 0.39%

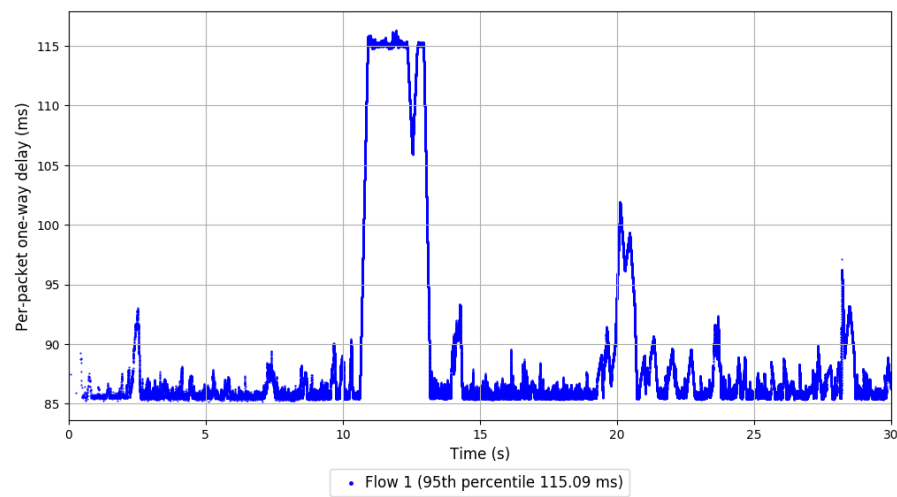
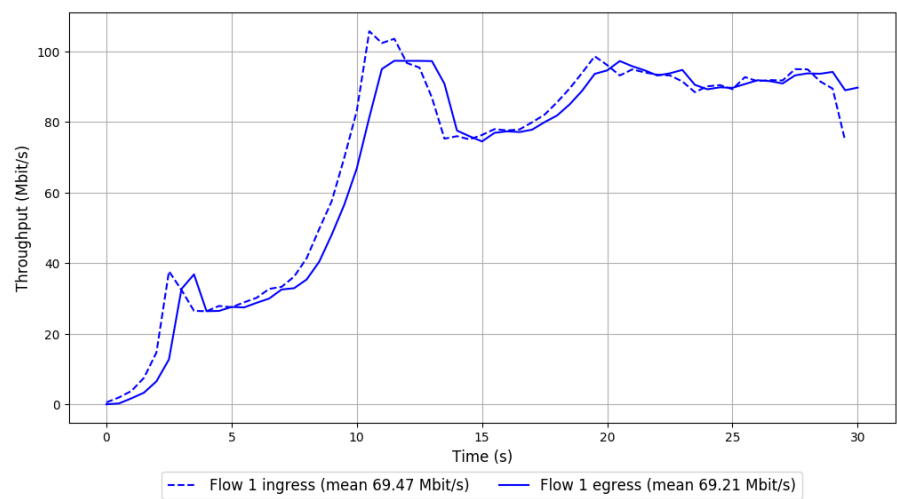
-- Flow 1:

Average throughput: 69.21 Mbit/s

95th percentile per-packet one-way delay: 115.093 ms

Loss rate: 0.39%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-08-27 22:06:14

End at: 2018-08-27 22:06:44

Local clock offset: 1.795 ms

Remote clock offset: 10.676 ms

Below is generated by plot.py at 2018-08-28 00:09:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.06 Mbit/s

95th percentile per-packet one-way delay: 92.872 ms

Loss rate: 0.03%

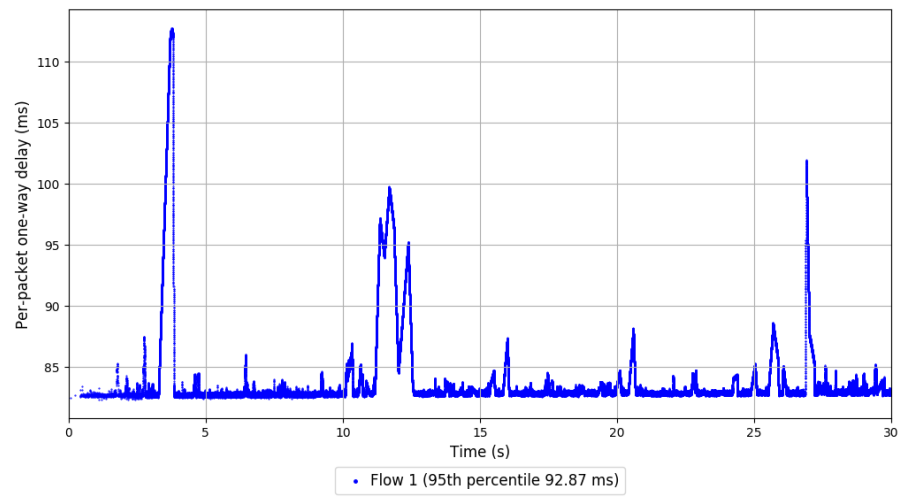
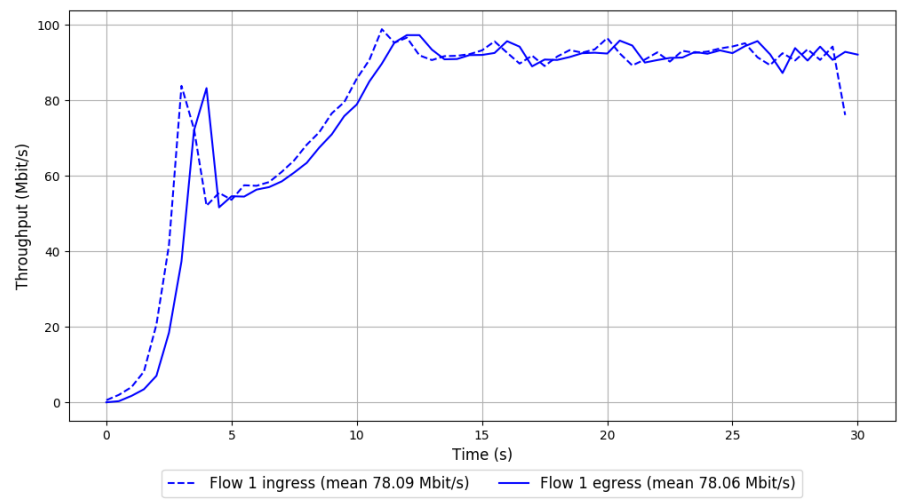
-- Flow 1:

Average throughput: 78.06 Mbit/s

95th percentile per-packet one-way delay: 92.872 ms

Loss rate: 0.03%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

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

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

Local clock offset: 5.126 ms

Remote clock offset: 10.169 ms

Below is generated by plot.py at 2018-08-28 00:09:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.24 Mbit/s

95th percentile per-packet one-way delay: 96.189 ms

Loss rate: 0.07%

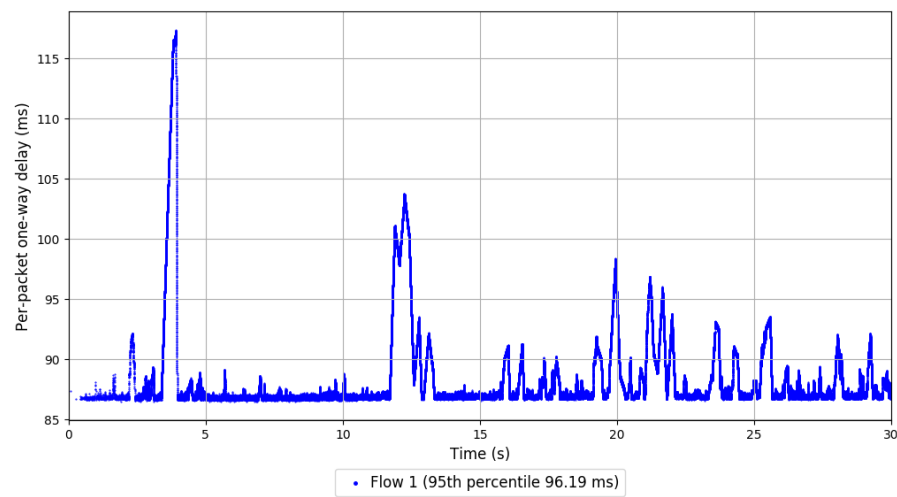
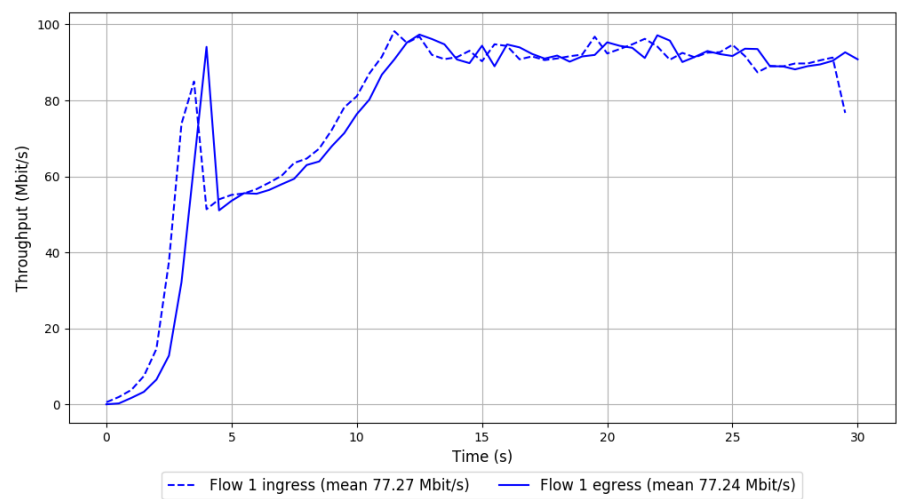
-- Flow 1:

Average throughput: 77.24 Mbit/s

95th percentile per-packet one-way delay: 96.189 ms

Loss rate: 0.07%

Run 6: Report of PCC-Vivace — Data Link

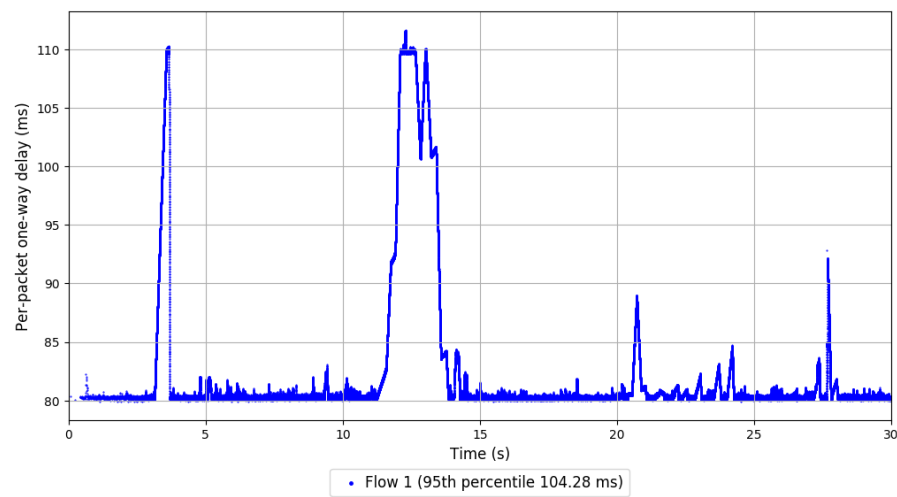
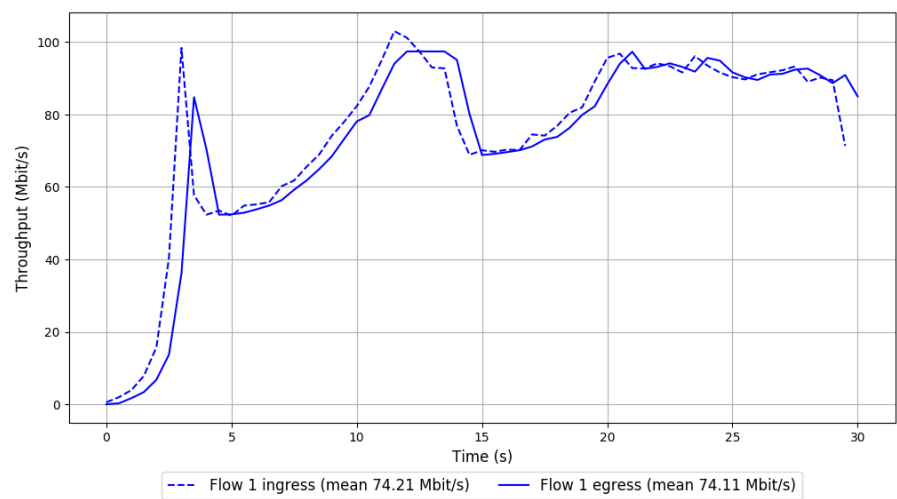


Run 7: Statistics of PCC-Vivace

Start at: 2018-08-27 22:45:31
End at: 2018-08-27 22:46:01
Local clock offset: 1.344 ms
Remote clock offset: 10.616 ms

Below is generated by plot.py at 2018-08-28 00:09:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 74.11 Mbit/s
95th percentile per-packet one-way delay: 104.280 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 74.11 Mbit/s
95th percentile per-packet one-way delay: 104.280 ms
Loss rate: 0.14%

Run 7: Report of PCC-Vivace — Data Link

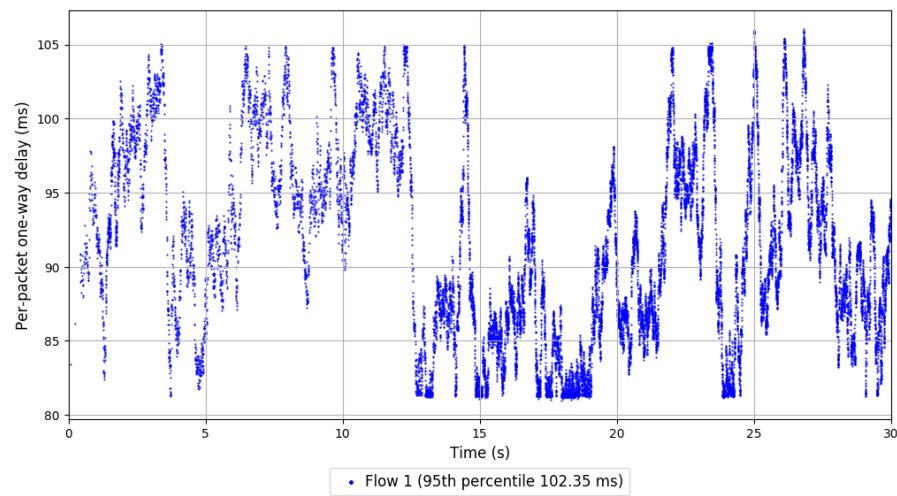
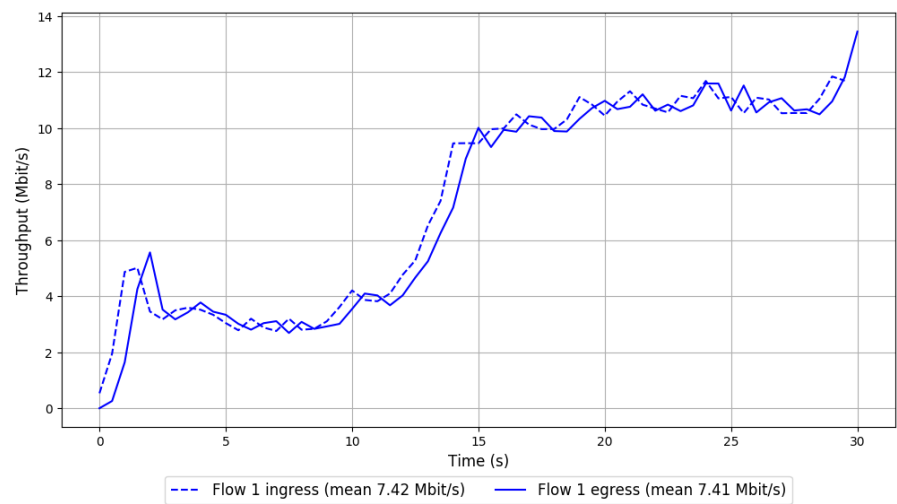


Run 8: Statistics of PCC-Vivace

Start at: 2018-08-27 23:05:06
End at: 2018-08-27 23:05:36
Local clock offset: -0.507 ms
Remote clock offset: 13.366 ms

Below is generated by plot.py at 2018-08-28 00:09:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.41 Mbit/s
95th percentile per-packet one-way delay: 102.352 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 7.41 Mbit/s
95th percentile per-packet one-way delay: 102.352 ms
Loss rate: 0.06%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-08-27 23:24:38

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

Local clock offset: 0.501 ms

Remote clock offset: 16.06 ms

Below is generated by plot.py at 2018-08-28 00:09:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.57 Mbit/s

95th percentile per-packet one-way delay: 103.372 ms

Loss rate: 0.04%

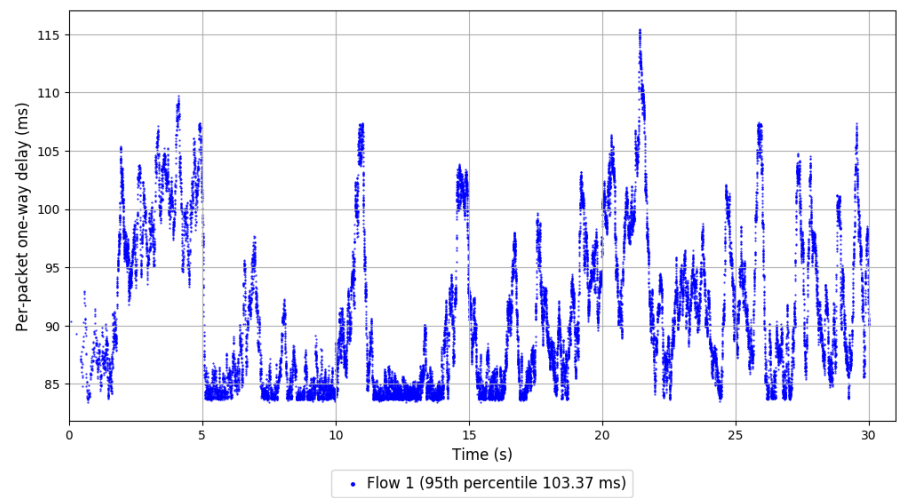
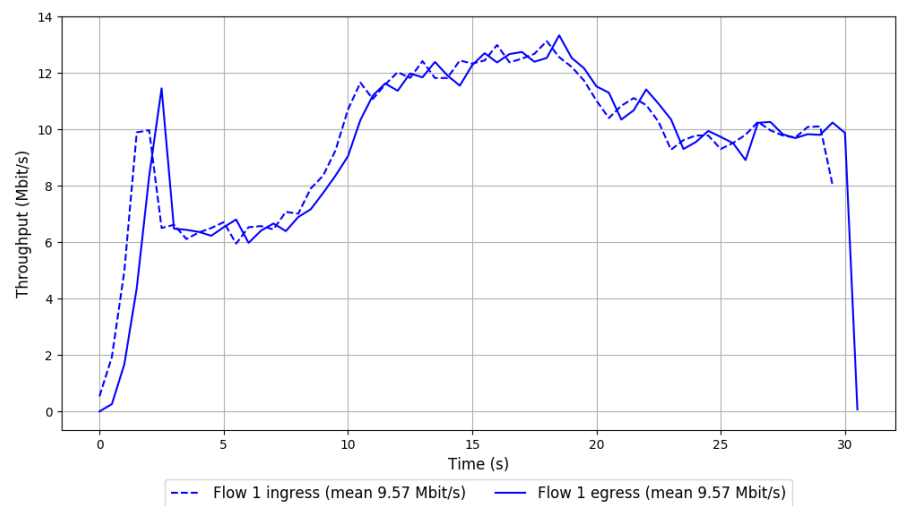
-- Flow 1:

Average throughput: 9.57 Mbit/s

95th percentile per-packet one-way delay: 103.372 ms

Loss rate: 0.04%

Run 9: Report of PCC-Vivace — Data Link

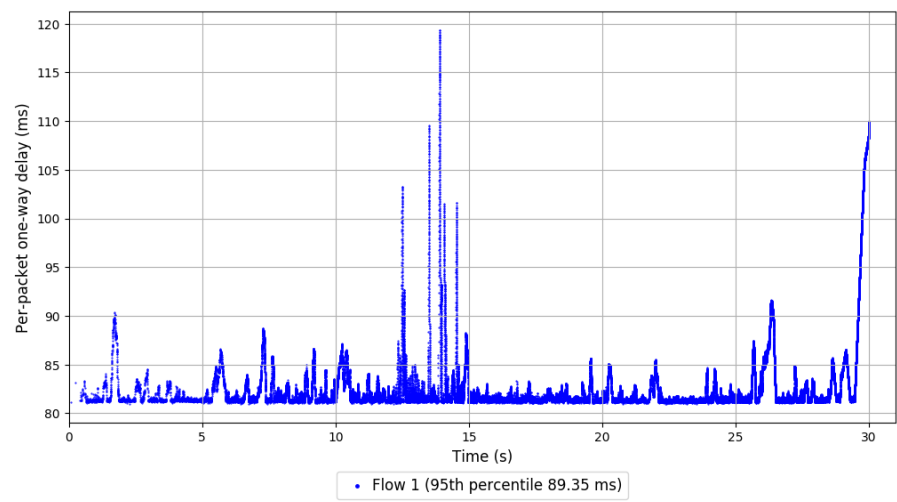
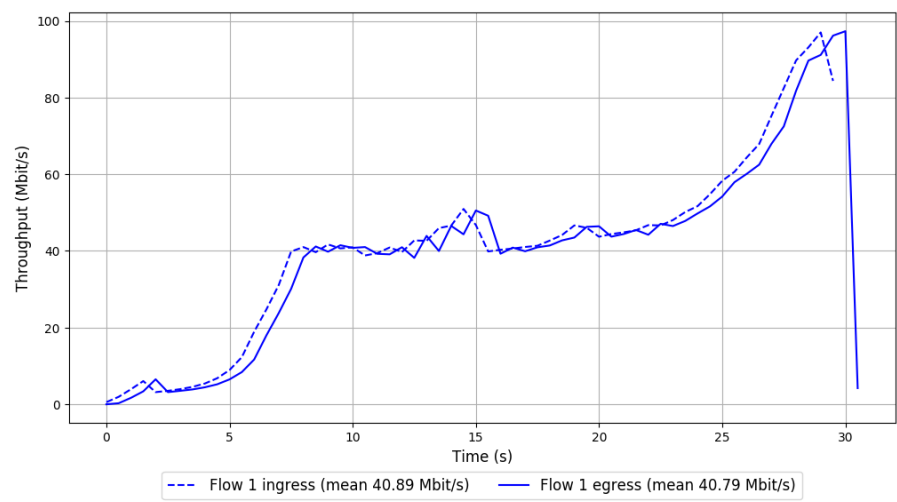


Run 10: Statistics of PCC-Vivace

Start at: 2018-08-27 23:44:18
End at: 2018-08-27 23:44:48
Local clock offset: -2.889 ms
Remote clock offset: 10.955 ms

Below is generated by plot.py at 2018-08-28 00:09:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 40.79 Mbit/s
95th percentile per-packet one-way delay: 89.350 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 40.79 Mbit/s
95th percentile per-packet one-way delay: 89.350 ms
Loss rate: 0.16%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-08-27 20:44:26

End at: 2018-08-27 20:44:56

Local clock offset: 4.79 ms

Remote clock offset: 2.059 ms

Below is generated by plot.py at 2018-08-28 00:09:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 89.436 ms

Loss rate: 0.02%

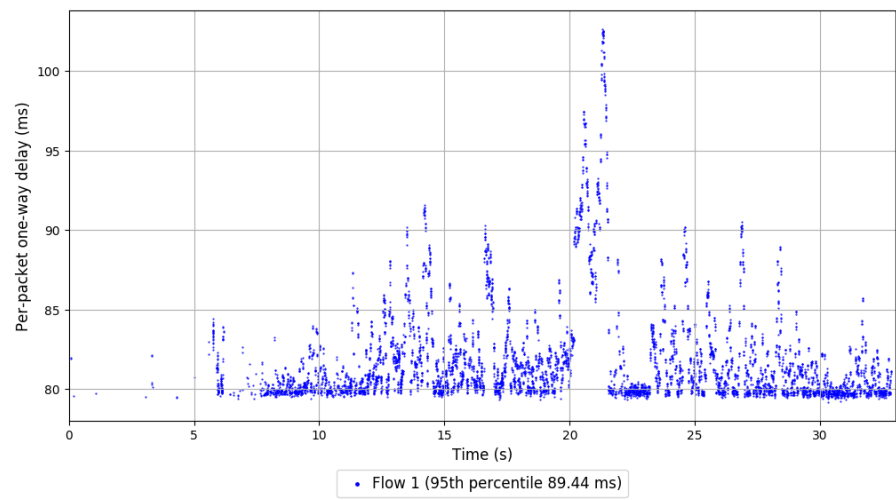
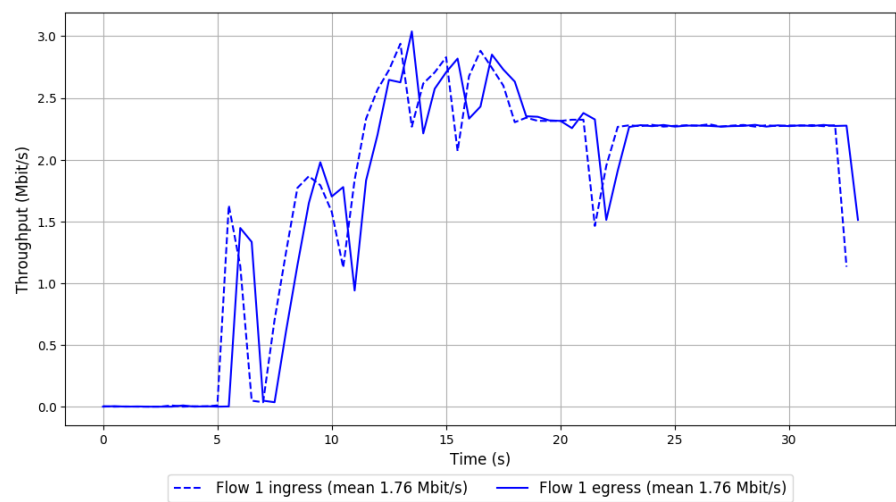
-- Flow 1:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 89.436 ms

Loss rate: 0.02%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-08-27 21:04:00

End at: 2018-08-27 21:04:30

Local clock offset: 4.097 ms

Remote clock offset: 7.52 ms

Below is generated by plot.py at 2018-08-28 00:09:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 83.161 ms

Loss rate: 0.02%

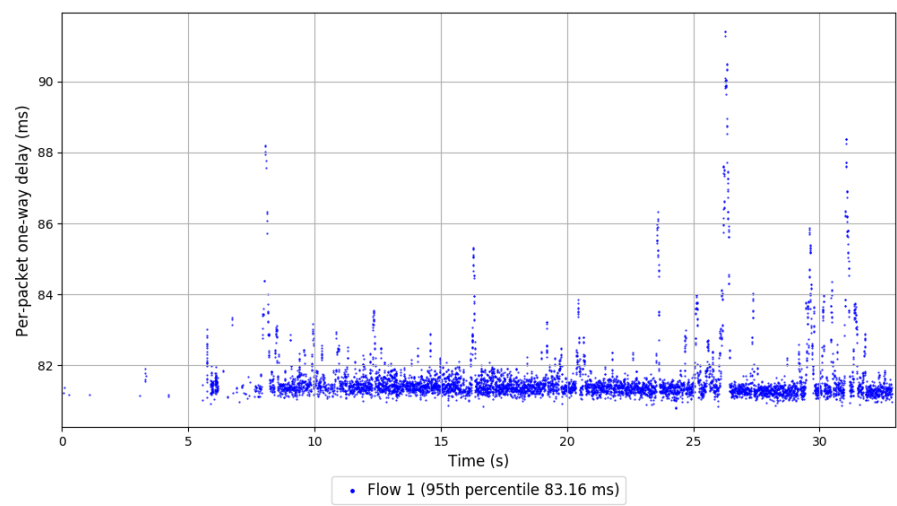
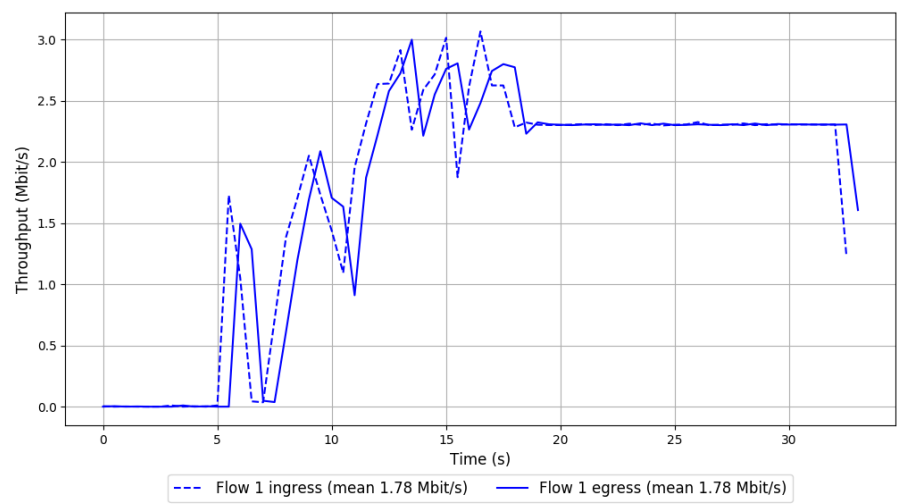
-- Flow 1:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 83.161 ms

Loss rate: 0.02%

Run 2: Report of WebRTC media — Data Link

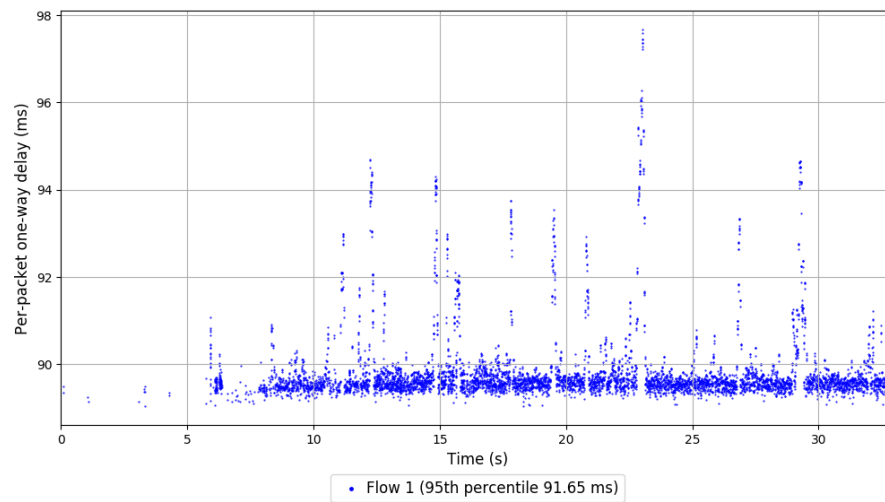
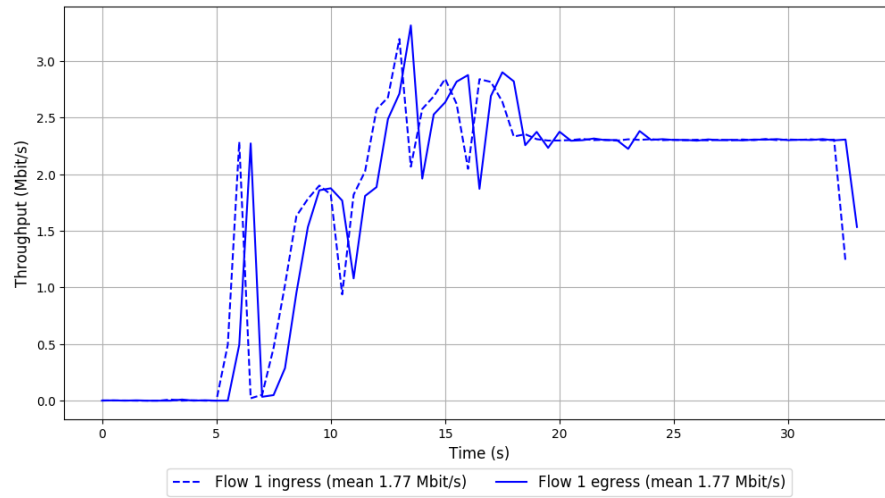


Run 3: Statistics of WebRTC media

Start at: 2018-08-27 21:23:34
End at: 2018-08-27 21:24:04
Local clock offset: 3.347 ms
Remote clock offset: 13.763 ms

Below is generated by plot.py at 2018-08-28 00:09:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.77 Mbit/s
95th percentile per-packet one-way delay: 91.647 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 1.77 Mbit/s
95th percentile per-packet one-way delay: 91.647 ms
Loss rate: 0.07%

Run 3: Report of WebRTC media — Data Link

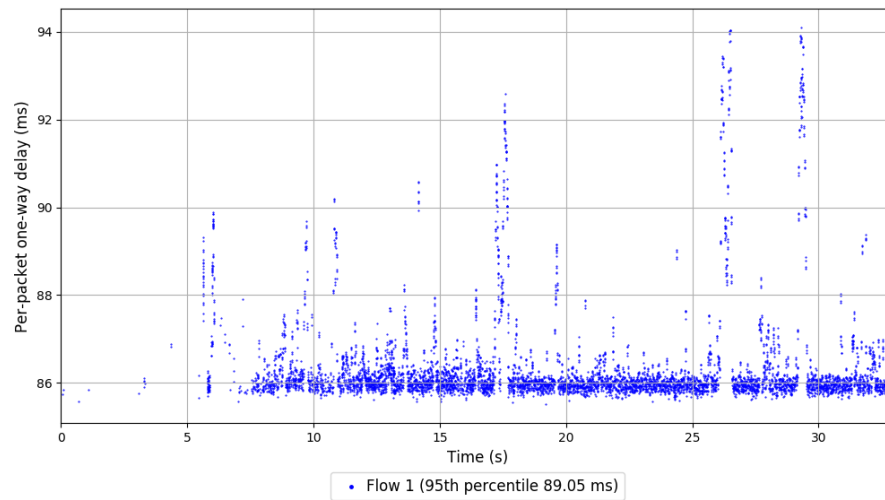
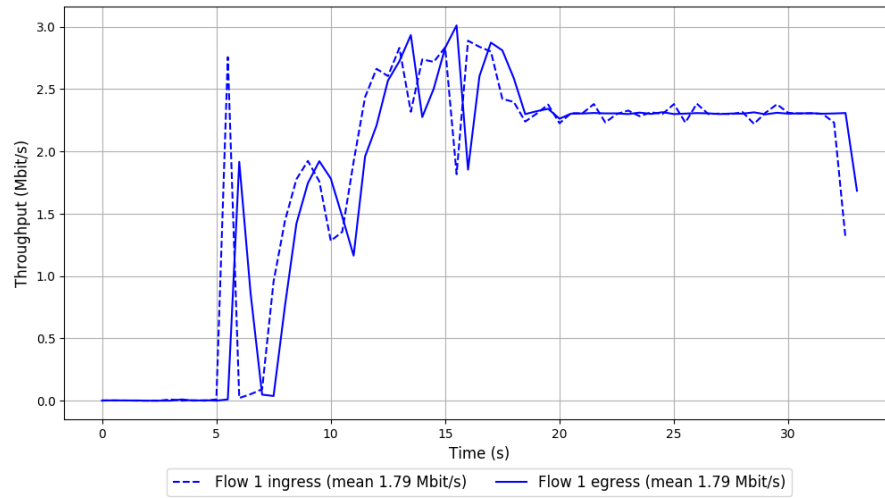


Run 4: Statistics of WebRTC media

Start at: 2018-08-27 21:43:11
End at: 2018-08-27 21:43:41
Local clock offset: 0.27 ms
Remote clock offset: 13.687 ms

Below is generated by plot.py at 2018-08-28 00:09:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 89.049 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 89.049 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-08-27 22:02:46

End at: 2018-08-27 22:03:16

Local clock offset: 0.724 ms

Remote clock offset: 13.54 ms

Below is generated by plot.py at 2018-08-28 00:09:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.77 Mbit/s

95th percentile per-packet one-way delay: 84.794 ms

Loss rate: 0.00%

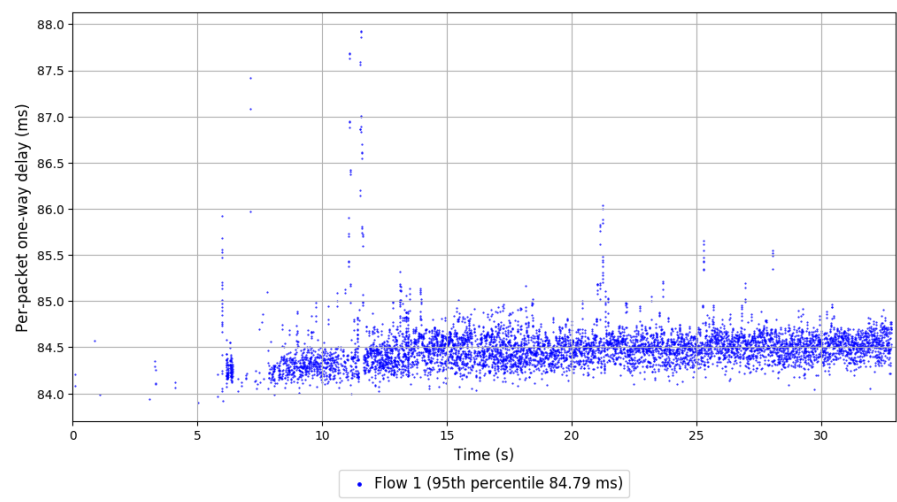
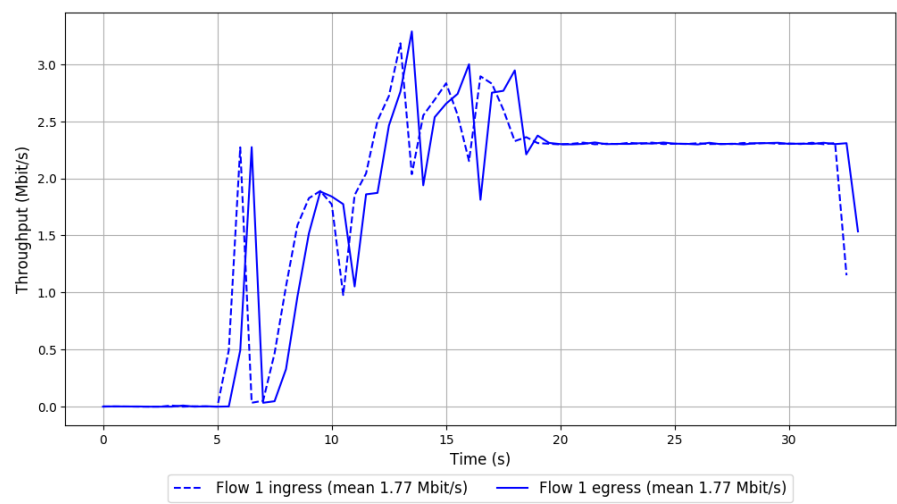
-- Flow 1:

Average throughput: 1.77 Mbit/s

95th percentile per-packet one-way delay: 84.794 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

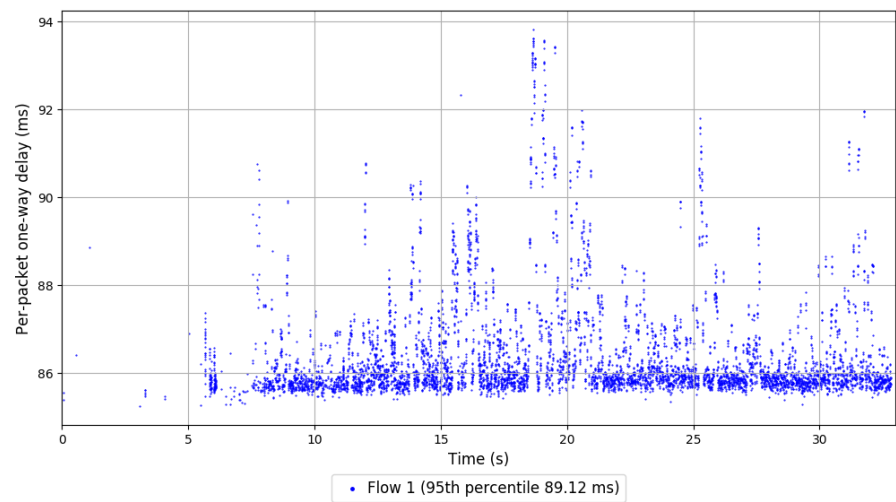
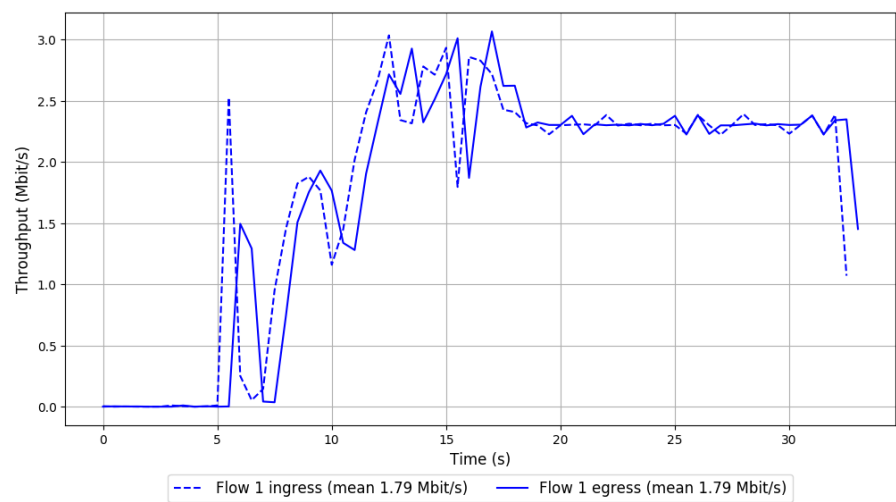


Run 6: Statistics of WebRTC media

Start at: 2018-08-27 22:22:20
End at: 2018-08-27 22:22:50
Local clock offset: 3.35 ms
Remote clock offset: 14.136 ms

Below is generated by plot.py at 2018-08-28 00:09:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 89.120 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 89.120 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

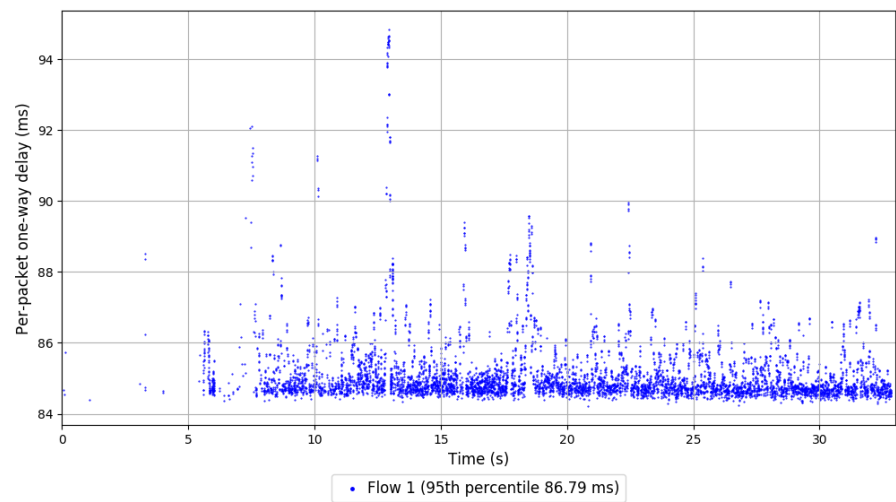
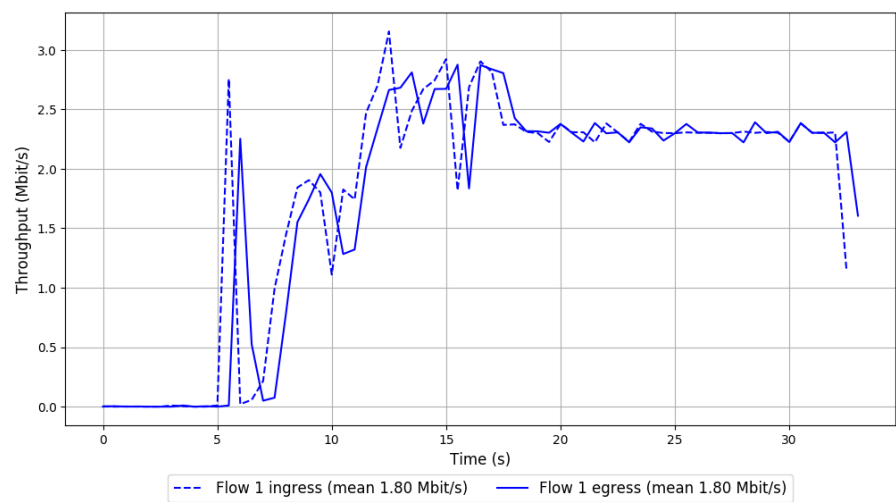


Run 7: Statistics of WebRTC media

Start at: 2018-08-27 22:42:02
End at: 2018-08-27 22:42:32
Local clock offset: 1.817 ms
Remote clock offset: 15.255 ms

Below is generated by plot.py at 2018-08-28 00:09:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.80 Mbit/s
95th percentile per-packet one-way delay: 86.792 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.80 Mbit/s
95th percentile per-packet one-way delay: 86.792 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

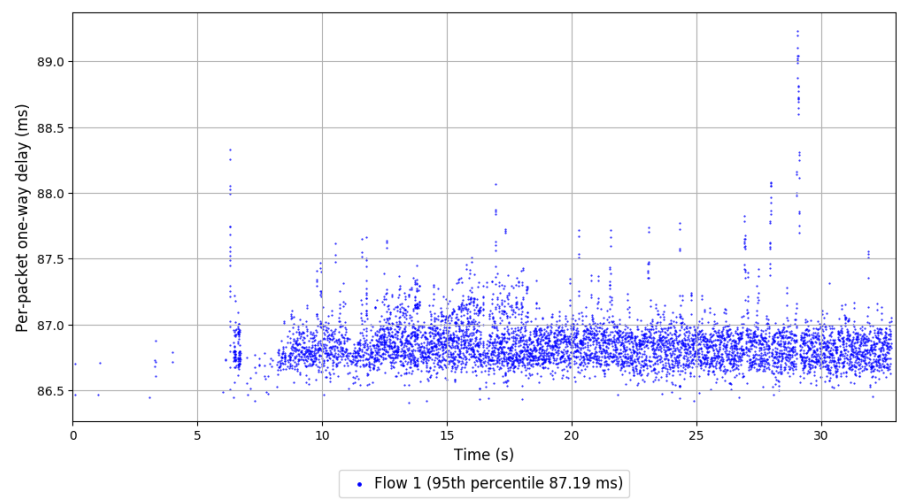
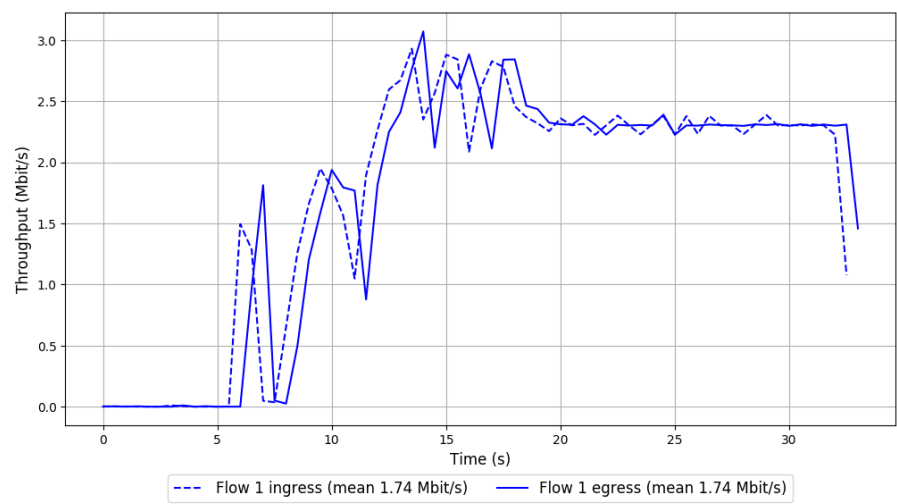


Run 8: Statistics of WebRTC media

Start at: 2018-08-27 23:01:37
End at: 2018-08-27 23:02:07
Local clock offset: 0.324 ms
Remote clock offset: 17.286 ms

Below is generated by plot.py at 2018-08-28 00:09:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.74 Mbit/s
95th percentile per-packet one-way delay: 87.185 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.74 Mbit/s
95th percentile per-packet one-way delay: 87.185 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

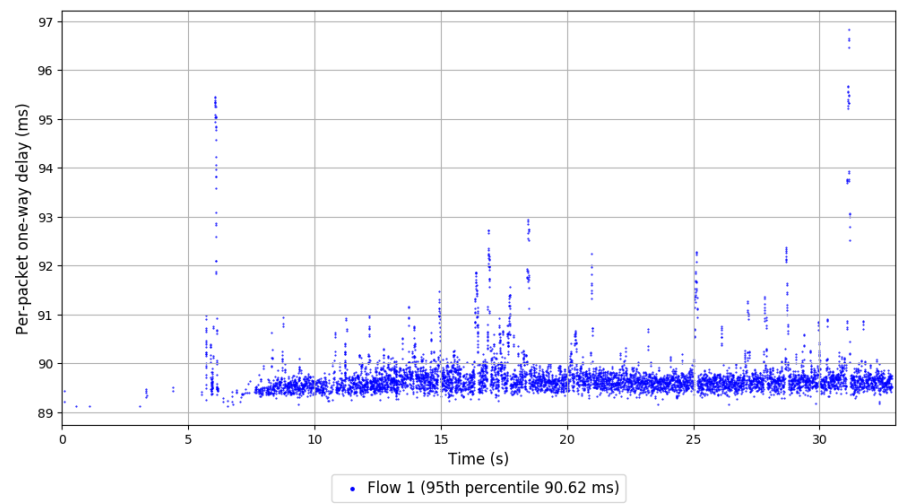
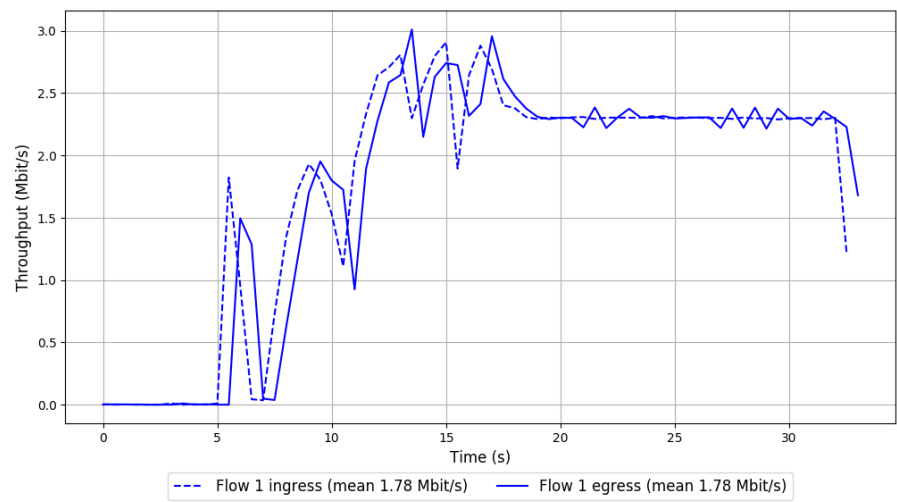


Run 9: Statistics of WebRTC media

Start at: 2018-08-27 23:21:10
End at: 2018-08-27 23:21:40
Local clock offset: 0.584 ms
Remote clock offset: 15.634 ms

Below is generated by plot.py at 2018-08-28 00:09:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.78 Mbit/s
95th percentile per-packet one-way delay: 90.623 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.78 Mbit/s
95th percentile per-packet one-way delay: 90.623 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-08-27 23:40:50

End at: 2018-08-27 23:41:20

Local clock offset: -3.195 ms

Remote clock offset: 14.69 ms

Below is generated by plot.py at 2018-08-28 00:09:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.80 Mbit/s

95th percentile per-packet one-way delay: 95.564 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 1.80 Mbit/s

95th percentile per-packet one-way delay: 95.564 ms

Loss rate: 0.02%

Run 10: Report of WebRTC media — Data Link

