

Pantheon Report

Generated at 2018-06-18 14:51:58 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

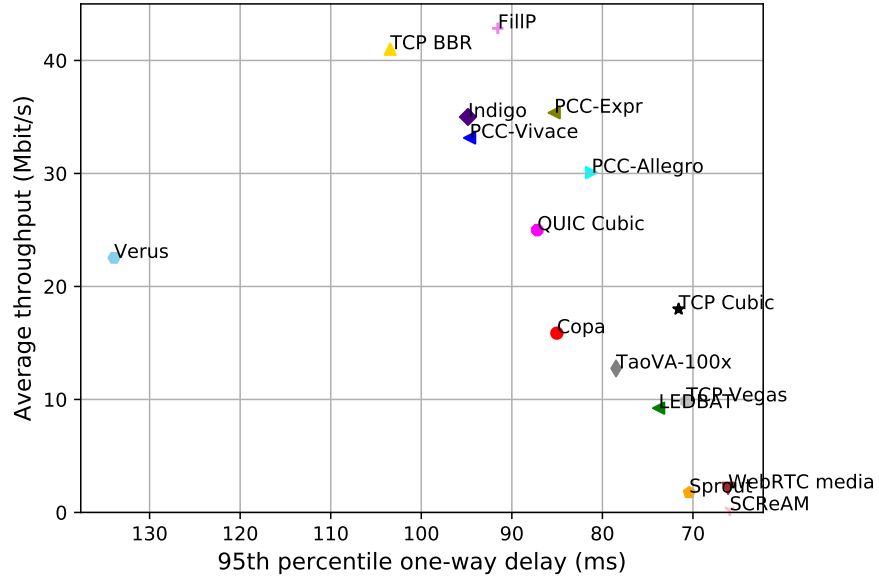
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

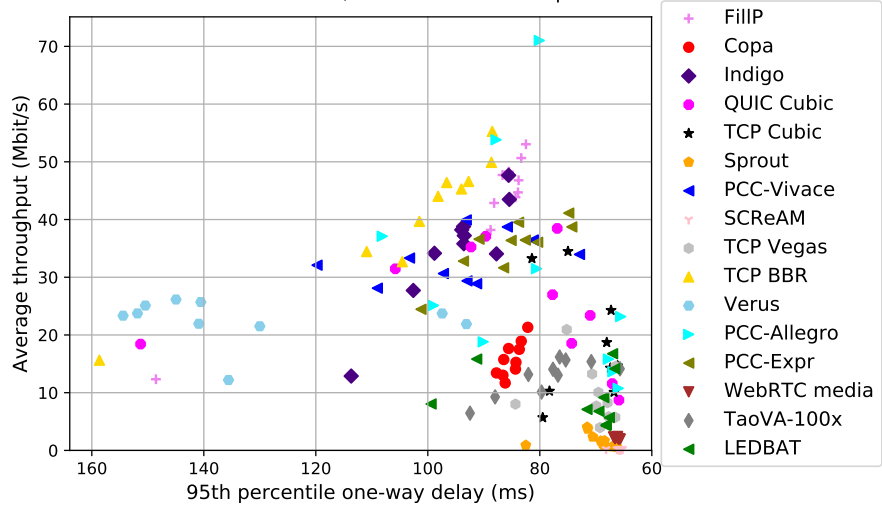
Git summary:

```
branch: master @ 9141c5f9450c85ea5ea2ea755a8e946998d3abf3
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quirk @ 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 Korea to China, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from AWS Korea to China, 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	41.00	103.43	12.34
Copa	10	15.87	85.03	3.85
TCP Cubic	10	17.99	71.58	0.57
FillP	10	42.84	91.55	32.79
Indigo	10	35.00	94.85	2.10
LEDBAT	10	9.23	73.79	0.28
PCC-Allegro	10	30.07	81.20	3.52
PCC-Expr	10	35.37	85.32	6.13
QUIC Cubic	10	24.99	87.19	1.16
SCReAM	10	0.19	65.95	0.10
Sprout	10	1.76	70.42	0.84
TaoVA-100x	10	12.74	78.49	2.76
TCP Vegas	10	9.83	70.75	0.27
Verus	10	22.53	133.92	81.62
PCC-Vivace	10	33.15	94.66	2.92
WebRTC media	10	2.13	66.12	0.14

Run 1: Statistics of TCP BBR

Start at: 2018-06-18 08:47:24

End at: 2018-06-18 08:47:54

Local clock offset: 2.165 ms

Remote clock offset: -1.244 ms

Below is generated by plot.py at 2018-06-18 14:44:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.60 Mbit/s

95th percentile per-packet one-way delay: 92.724 ms

Loss rate: 12.21%

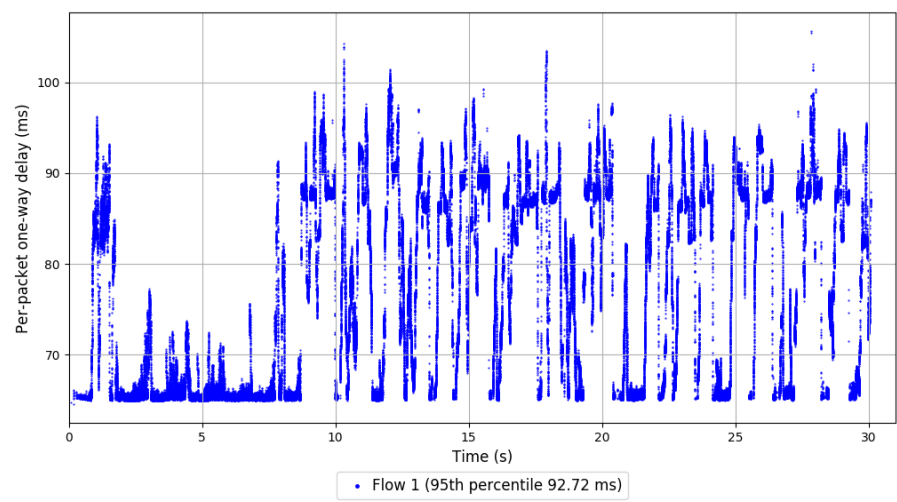
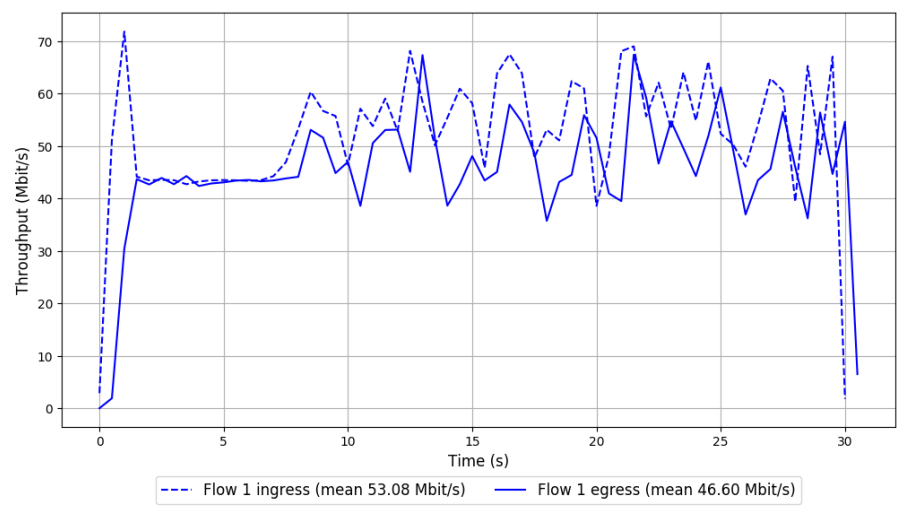
-- Flow 1:

Average throughput: 46.60 Mbit/s

95th percentile per-packet one-way delay: 92.724 ms

Loss rate: 12.21%

Run 1: Report of TCP BBR — Data Link

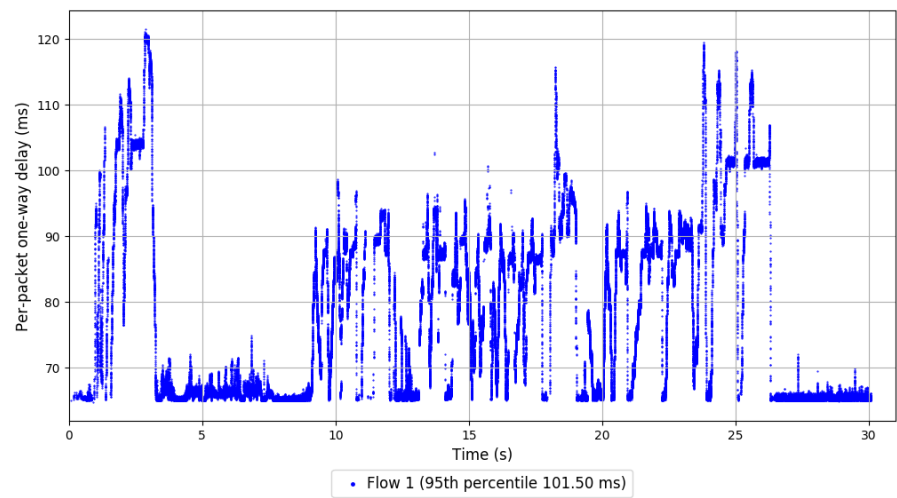
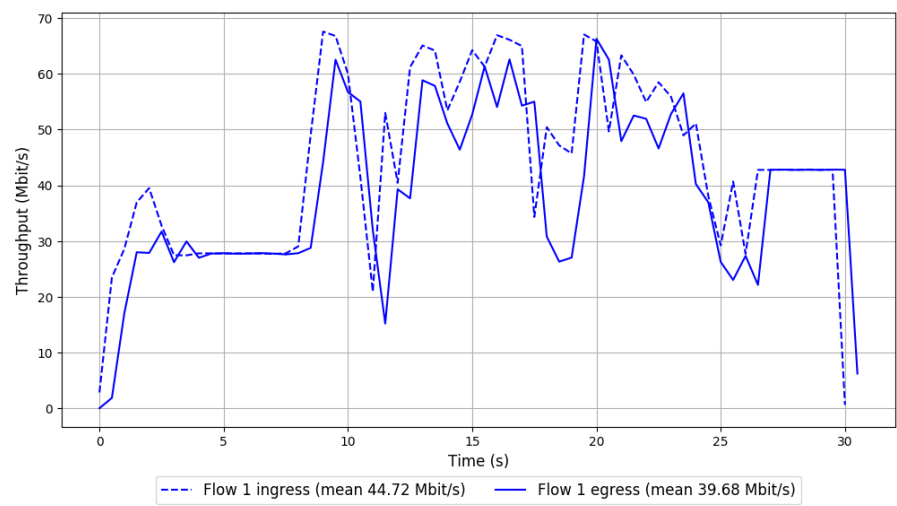


Run 2: Statistics of TCP BBR

Start at: 2018-06-18 09:20:12
End at: 2018-06-18 09:20:42
Local clock offset: 2.579 ms
Remote clock offset: -0.116 ms

Below is generated by plot.py at 2018-06-18 14:44:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 39.68 Mbit/s
95th percentile per-packet one-way delay: 101.503 ms
Loss rate: 11.27%
-- Flow 1:
Average throughput: 39.68 Mbit/s
95th percentile per-packet one-way delay: 101.503 ms
Loss rate: 11.27%

Run 2: Report of TCP BBR — Data Link

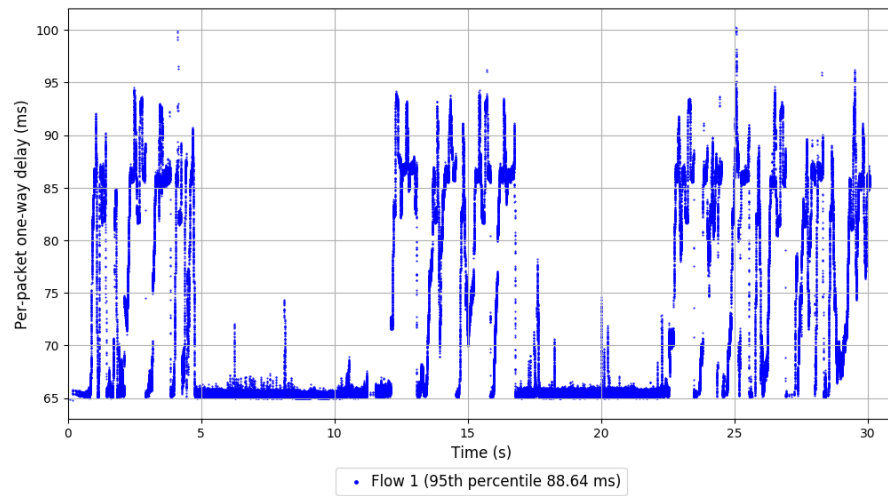
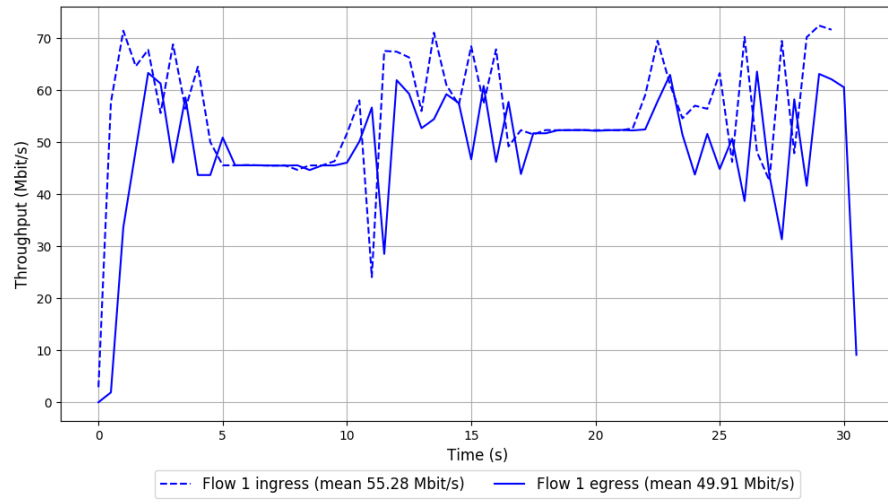


Run 3: Statistics of TCP BBR

Start at: 2018-06-18 09:56:07
End at: 2018-06-18 09:56:37
Local clock offset: -0.107 ms
Remote clock offset: -0.784 ms

Below is generated by plot.py at 2018-06-18 14:44:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 49.91 Mbit/s
95th percentile per-packet one-way delay: 88.642 ms
Loss rate: 9.68%
-- Flow 1:
Average throughput: 49.91 Mbit/s
95th percentile per-packet one-way delay: 88.642 ms
Loss rate: 9.68%

Run 3: Report of TCP BBR — Data Link

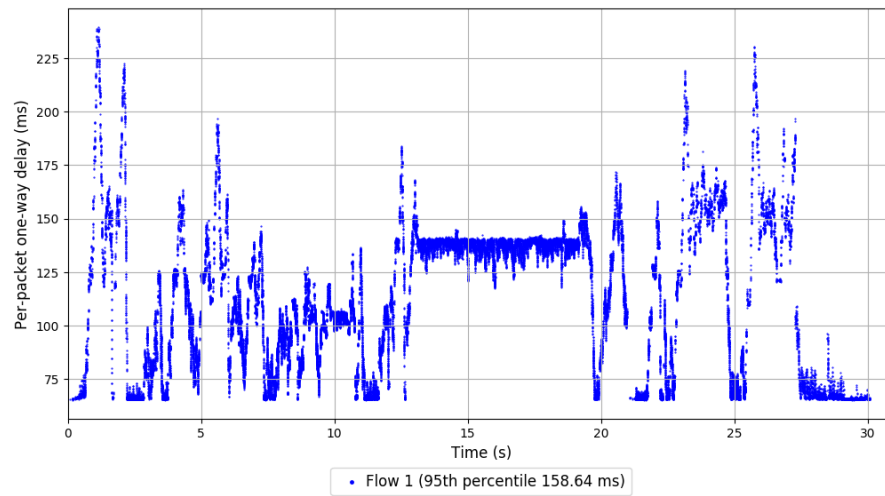
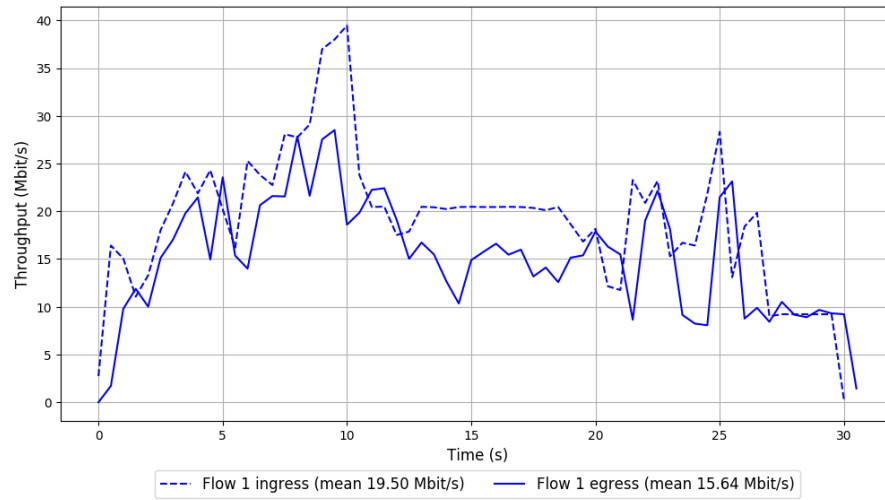


Run 4: Statistics of TCP BBR

Start at: 2018-06-18 10:28:33
End at: 2018-06-18 10:29:03
Local clock offset: -5.863 ms
Remote clock offset: -2.636 ms

Below is generated by plot.py at 2018-06-18 14:44:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 15.64 Mbit/s
95th percentile per-packet one-way delay: 158.639 ms
Loss rate: 19.81%
-- Flow 1:
Average throughput: 15.64 Mbit/s
95th percentile per-packet one-way delay: 158.639 ms
Loss rate: 19.81%

Run 4: Report of TCP BBR — Data Link

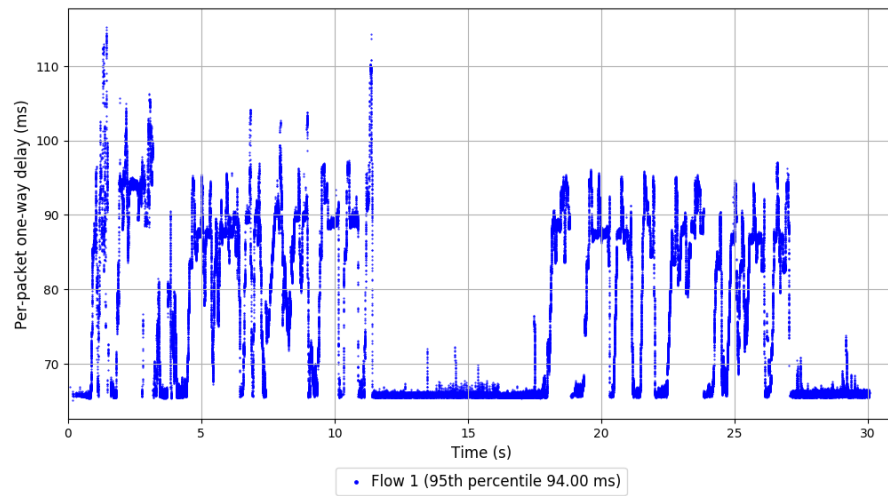
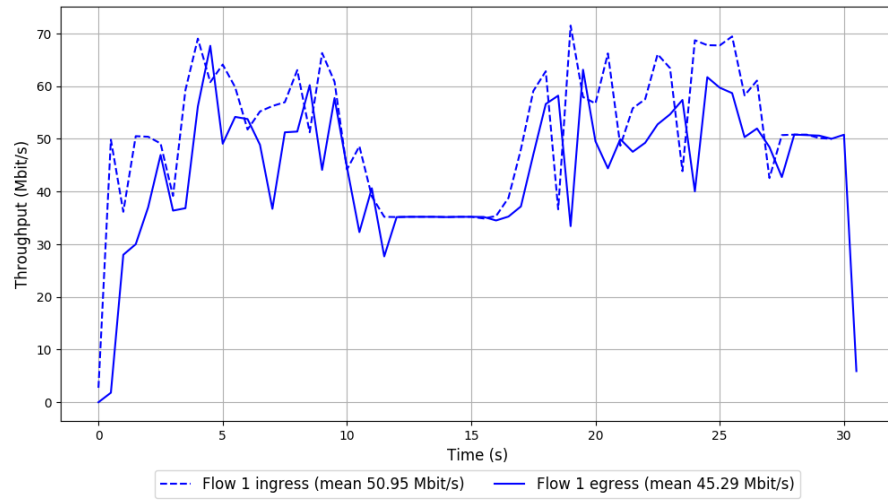


Run 5: Statistics of TCP BBR

Start at: 2018-06-18 11:05:00
End at: 2018-06-18 11:05:30
Local clock offset: 4.299 ms
Remote clock offset: -1.816 ms

Below is generated by plot.py at 2018-06-18 14:44:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 45.29 Mbit/s
95th percentile per-packet one-way delay: 93.996 ms
Loss rate: 11.10%
-- Flow 1:
Average throughput: 45.29 Mbit/s
95th percentile per-packet one-way delay: 93.996 ms
Loss rate: 11.10%

Run 5: Report of TCP BBR — Data Link

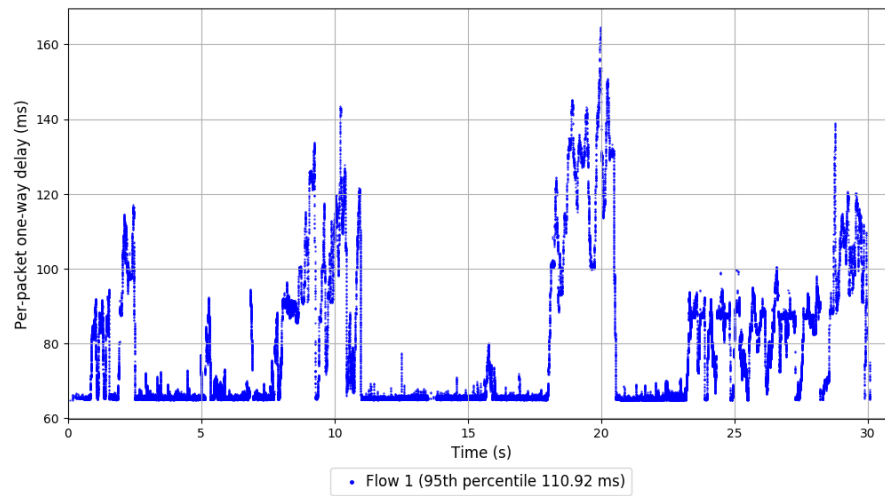
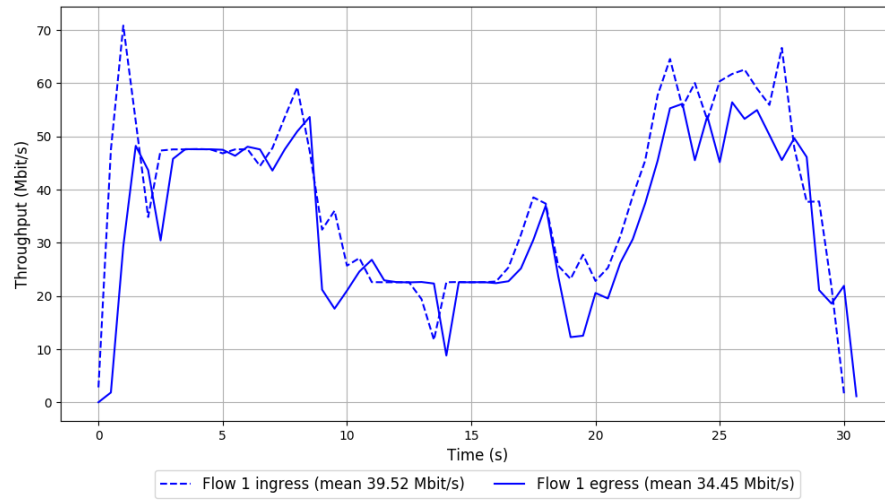


Run 6: Statistics of TCP BBR

Start at: 2018-06-18 11:41:57
End at: 2018-06-18 11:42:27
Local clock offset: 1.795 ms
Remote clock offset: -0.743 ms

Below is generated by plot.py at 2018-06-18 14:44:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 34.45 Mbit/s
95th percentile per-packet one-way delay: 110.921 ms
Loss rate: 12.82%
-- Flow 1:
Average throughput: 34.45 Mbit/s
95th percentile per-packet one-way delay: 110.921 ms
Loss rate: 12.82%

Run 6: Report of TCP BBR — Data Link

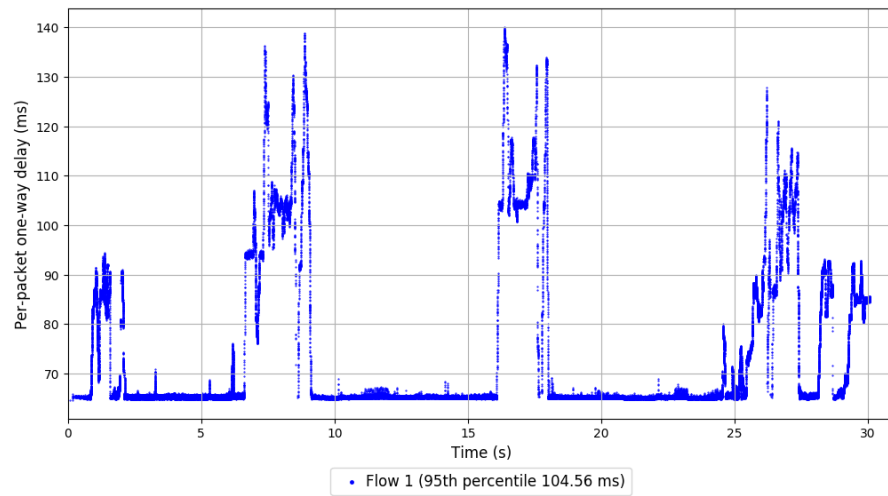
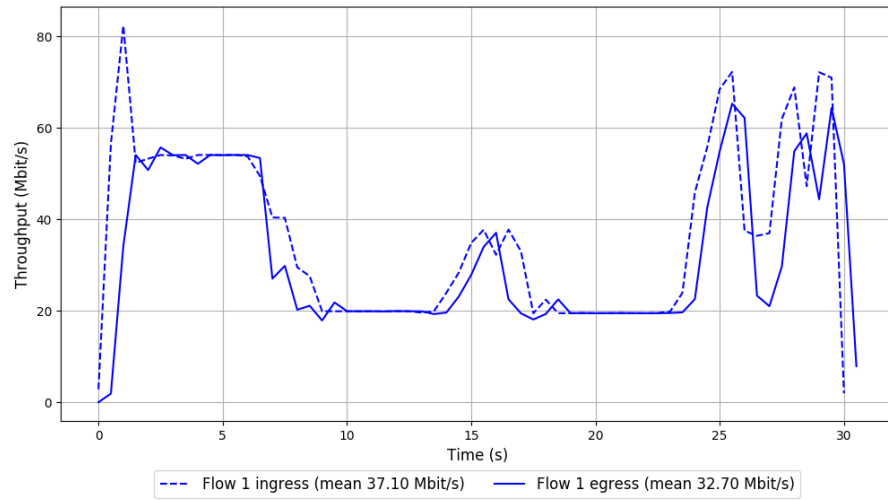


Run 7: Statistics of TCP BBR

Start at: 2018-06-18 12:17:54
End at: 2018-06-18 12:18:24
Local clock offset: -3.567 ms
Remote clock offset: -0.621 ms

Below is generated by plot.py at 2018-06-18 14:44:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 32.70 Mbit/s
95th percentile per-packet one-way delay: 104.561 ms
Loss rate: 11.87%
-- Flow 1:
Average throughput: 32.70 Mbit/s
95th percentile per-packet one-way delay: 104.561 ms
Loss rate: 11.87%

Run 7: Report of TCP BBR — Data Link

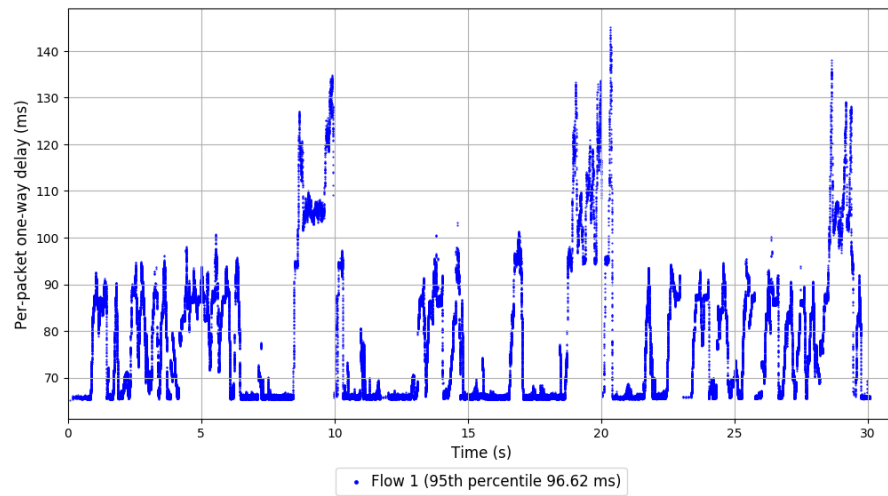
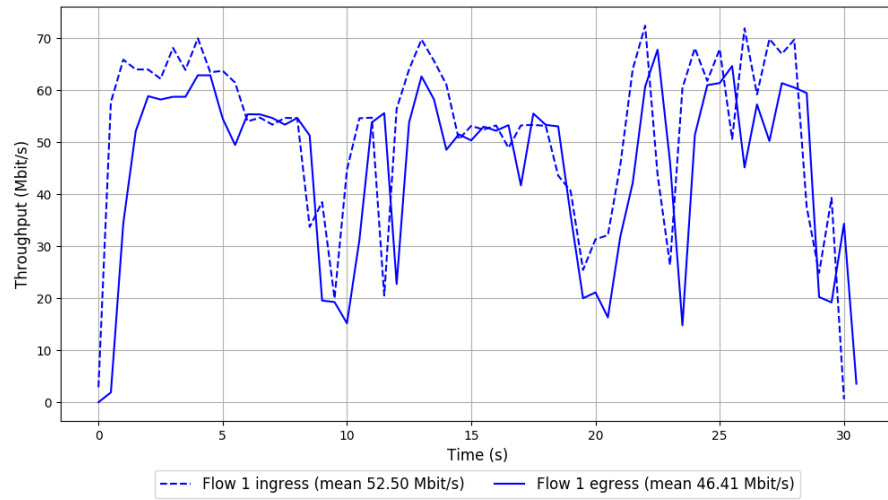


Run 8: Statistics of TCP BBR

Start at: 2018-06-18 12:53:37
End at: 2018-06-18 12:54:07
Local clock offset: 3.235 ms
Remote clock offset: -1.782 ms

Below is generated by plot.py at 2018-06-18 14:44:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 46.41 Mbit/s
95th percentile per-packet one-way delay: 96.620 ms
Loss rate: 11.60%
-- Flow 1:
Average throughput: 46.41 Mbit/s
95th percentile per-packet one-way delay: 96.620 ms
Loss rate: 11.60%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-06-18 13:29:08

End at: 2018-06-18 13:29:38

Local clock offset: 5.167 ms

Remote clock offset: -1.491 ms

Below is generated by plot.py at 2018-06-18 14:44:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.02 Mbit/s

95th percentile per-packet one-way delay: 98.162 ms

Loss rate: 15.29%

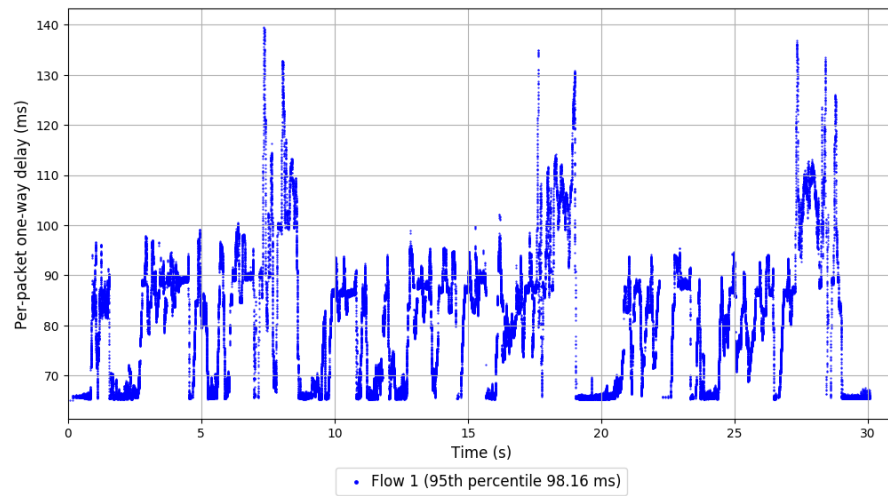
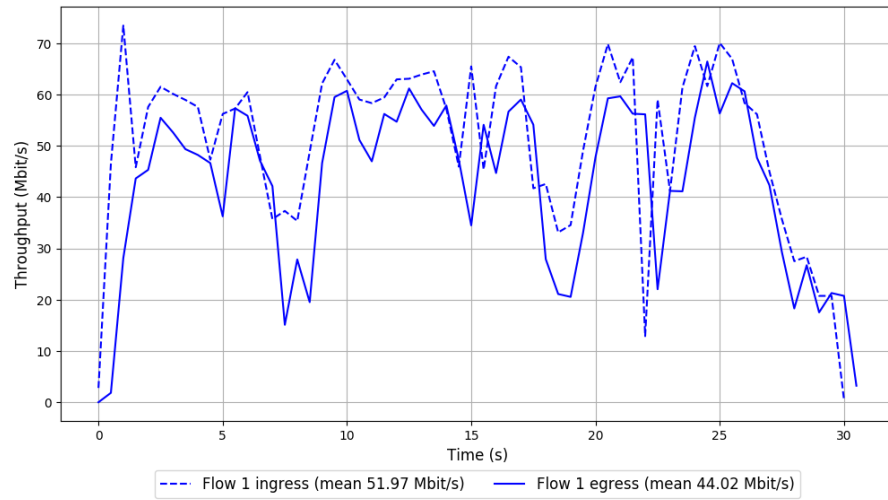
-- Flow 1:

Average throughput: 44.02 Mbit/s

95th percentile per-packet one-way delay: 98.162 ms

Loss rate: 15.29%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-06-18 14:05:24

End at: 2018-06-18 14:05:54

Local clock offset: -0.349 ms

Remote clock offset: -2.478 ms

Below is generated by plot.py at 2018-06-18 14:44:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.27 Mbit/s

95th percentile per-packet one-way delay: 88.486 ms

Loss rate: 7.70%

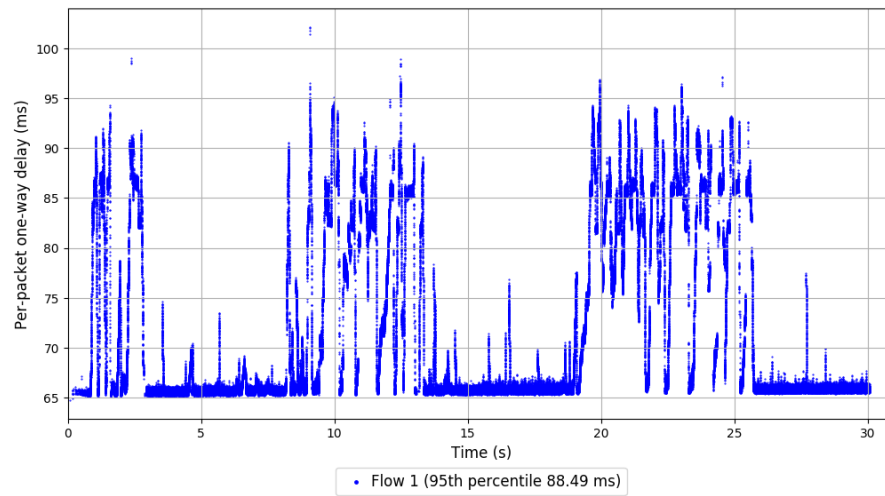
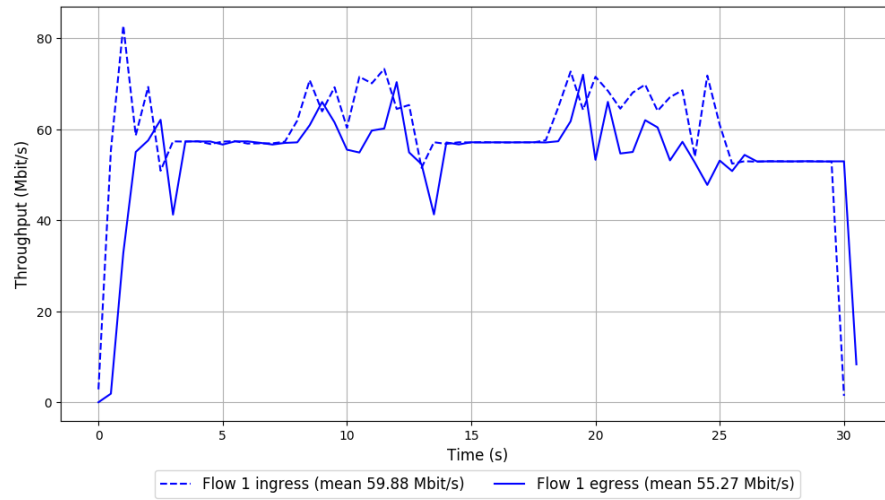
-- Flow 1:

Average throughput: 55.27 Mbit/s

95th percentile per-packet one-way delay: 88.486 ms

Loss rate: 7.70%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-06-18 08:58:59

End at: 2018-06-18 08:59:29

Local clock offset: 1.7 ms

Remote clock offset: -1.36 ms

Below is generated by plot.py at 2018-06-18 14:44:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.42 Mbit/s

95th percentile per-packet one-way delay: 87.748 ms

Loss rate: 5.79%

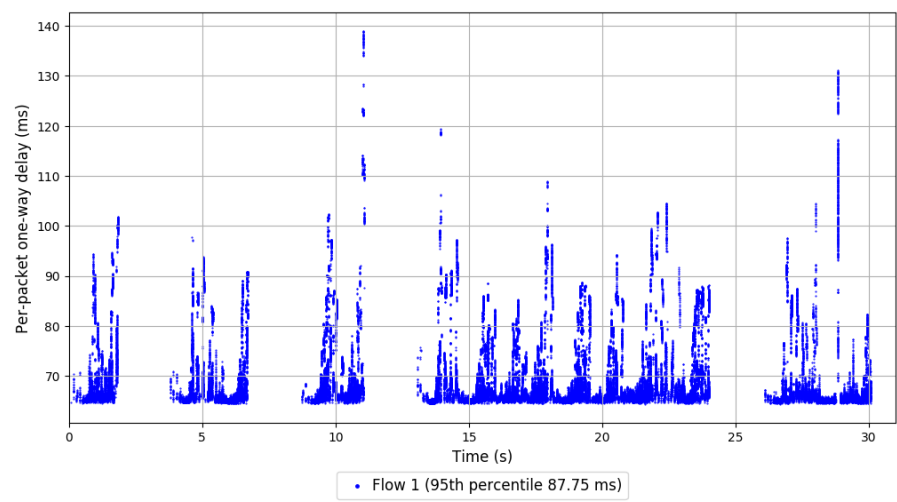
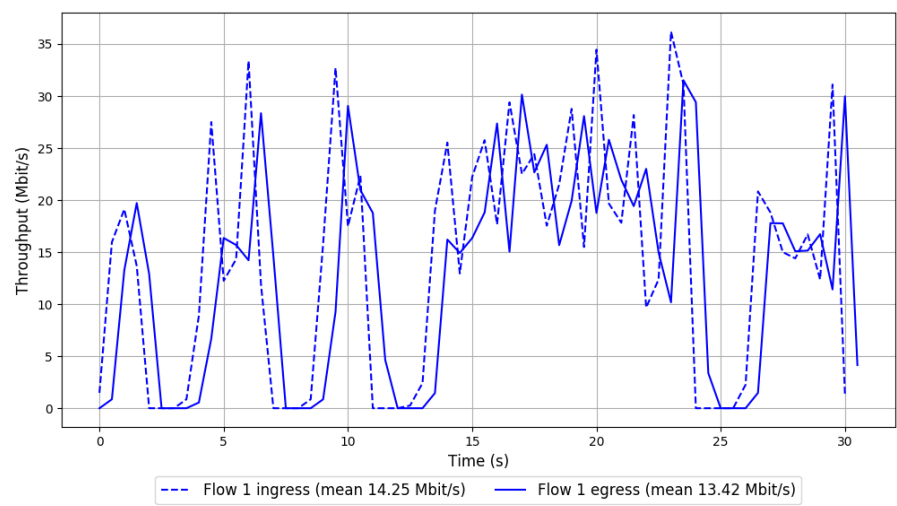
-- Flow 1:

Average throughput: 13.42 Mbit/s

95th percentile per-packet one-way delay: 87.748 ms

Loss rate: 5.79%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-06-18 09:33:30

End at: 2018-06-18 09:34:00

Local clock offset: 2.186 ms

Remote clock offset: 0.401 ms

Below is generated by plot.py at 2018-06-18 14:44:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.26 Mbit/s

95th percentile per-packet one-way delay: 84.261 ms

Loss rate: 3.36%

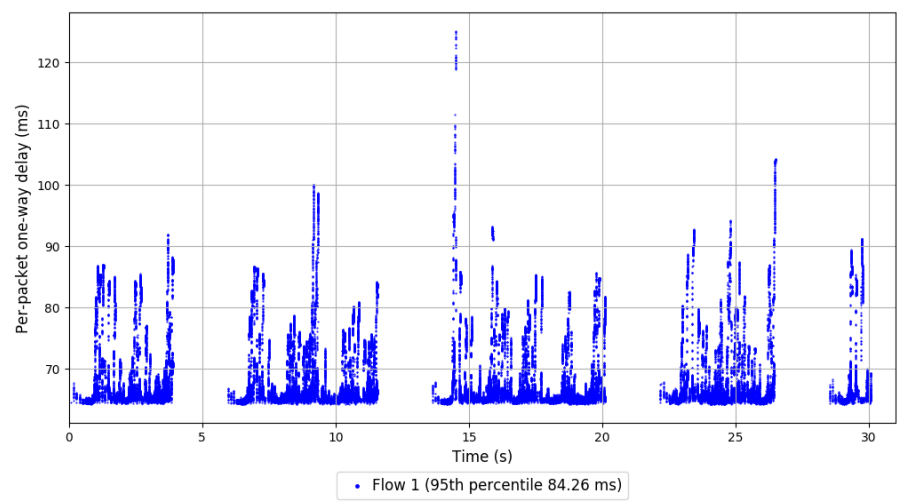
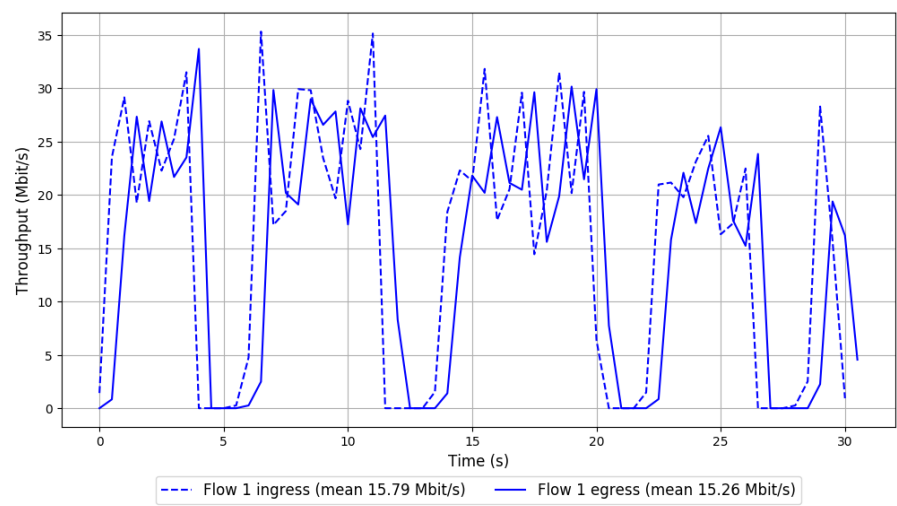
-- Flow 1:

Average throughput: 15.26 Mbit/s

95th percentile per-packet one-way delay: 84.261 ms

Loss rate: 3.36%

Run 2: Report of Copa — Data Link

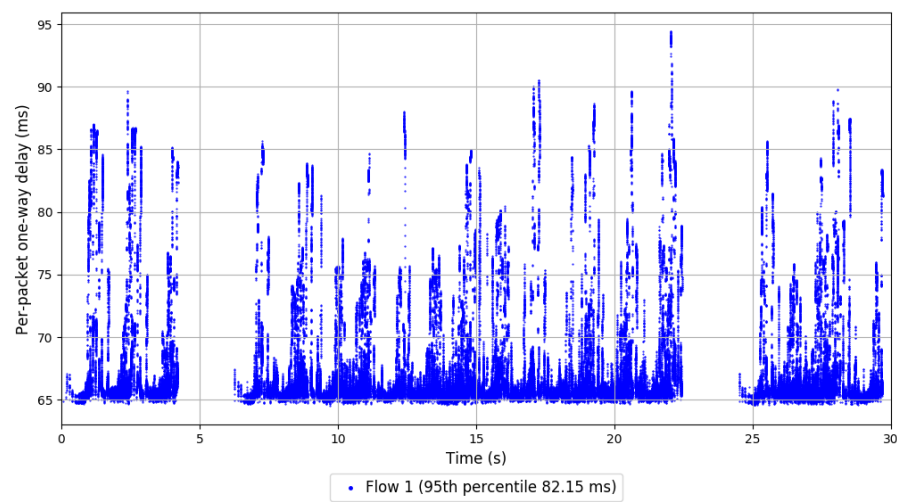
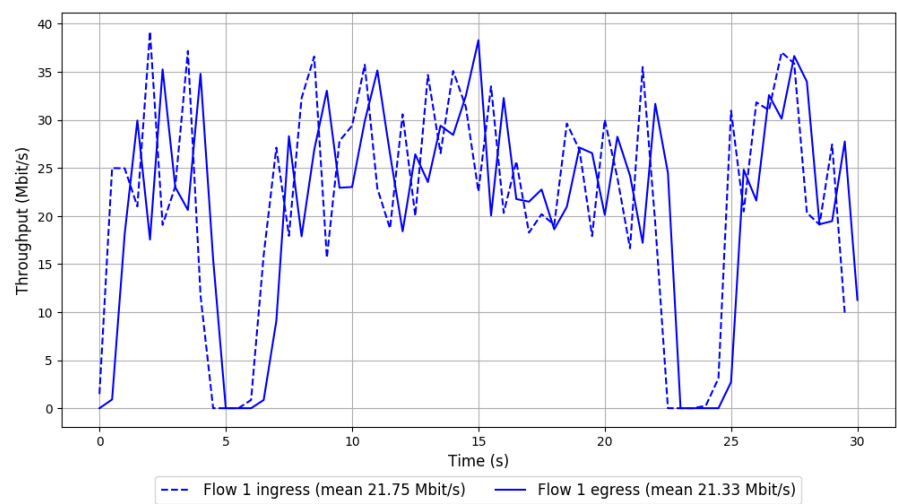


Run 3: Statistics of Copa

Start at: 2018-06-18 10:09:43
End at: 2018-06-18 10:10:13
Local clock offset: -2.905 ms
Remote clock offset: -1.184 ms

Below is generated by plot.py at 2018-06-18 14:44:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 21.33 Mbit/s
95th percentile per-packet one-way delay: 82.151 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 21.33 Mbit/s
95th percentile per-packet one-way delay: 82.151 ms
Loss rate: 1.92%

Run 3: Report of Copa — Data Link

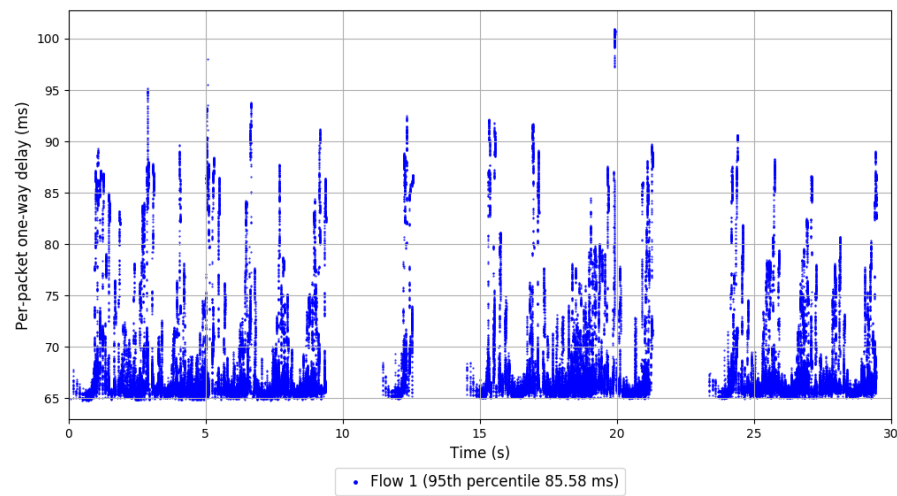
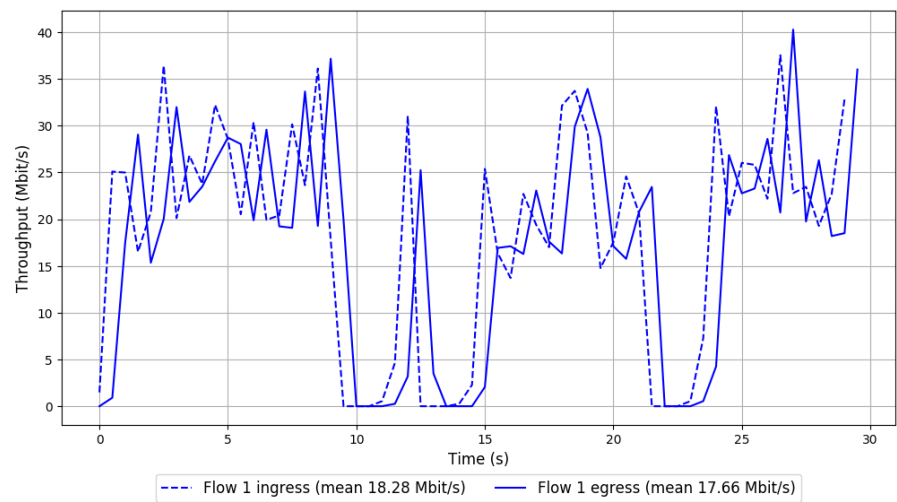


Run 4: Statistics of Copa

Start at: 2018-06-18 10:40:52
End at: 2018-06-18 10:41:22
Local clock offset: -0.123 ms
Remote clock offset: -3.127 ms

Below is generated by plot.py at 2018-06-18 14:44:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 17.66 Mbit/s
95th percentile per-packet one-way delay: 85.575 ms
Loss rate: 3.38%
-- Flow 1:
Average throughput: 17.66 Mbit/s
95th percentile per-packet one-way delay: 85.575 ms
Loss rate: 3.38%

Run 4: Report of Copa — Data Link

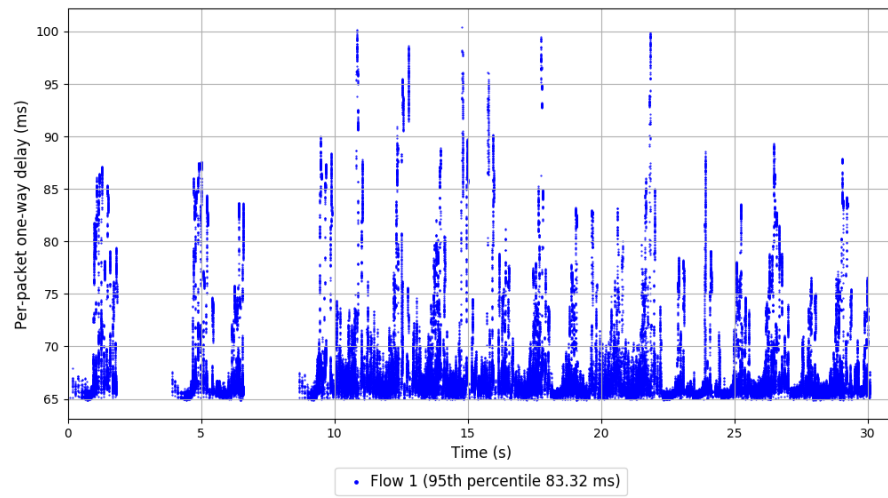
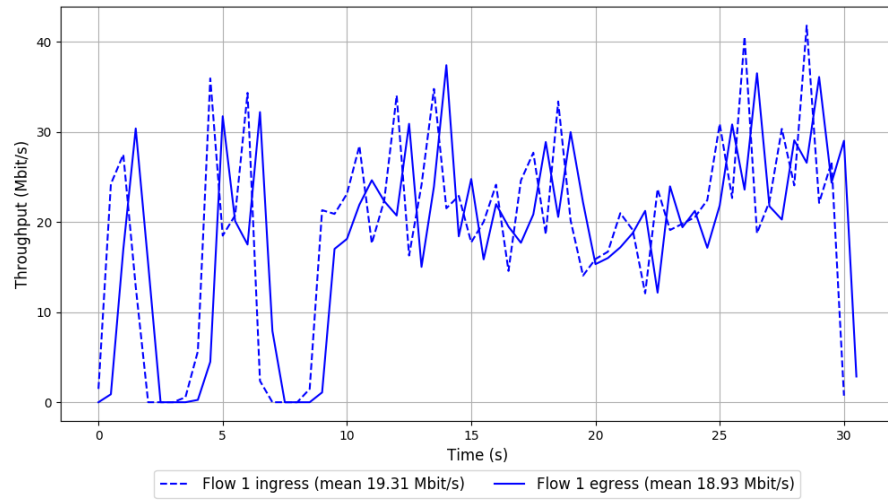


Run 5: Statistics of Copa

Start at: 2018-06-18 11:18:20
End at: 2018-06-18 11:18:50
Local clock offset: 6.672 ms
Remote clock offset: -1.291 ms

Below is generated by plot.py at 2018-06-18 14:44:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 18.93 Mbit/s
95th percentile per-packet one-way delay: 83.316 ms
Loss rate: 1.93%
-- Flow 1:
Average throughput: 18.93 Mbit/s
95th percentile per-packet one-way delay: 83.316 ms
Loss rate: 1.93%

Run 5: Report of Copa — Data Link

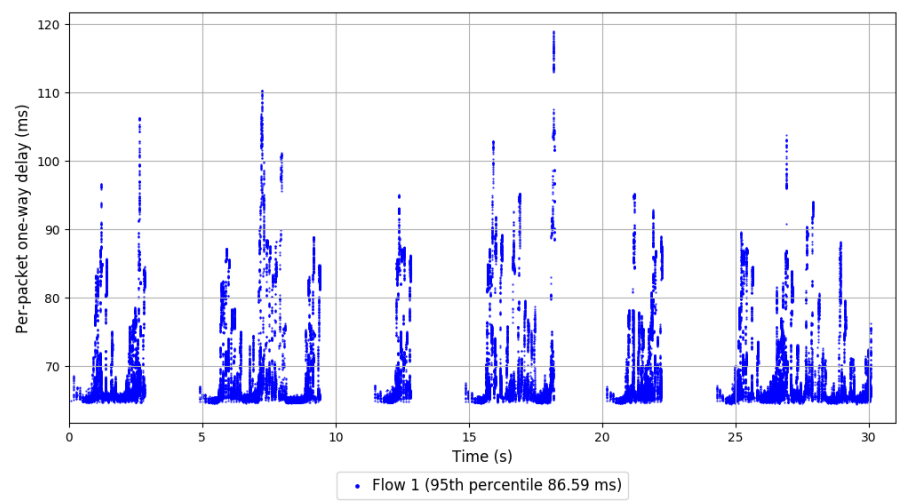
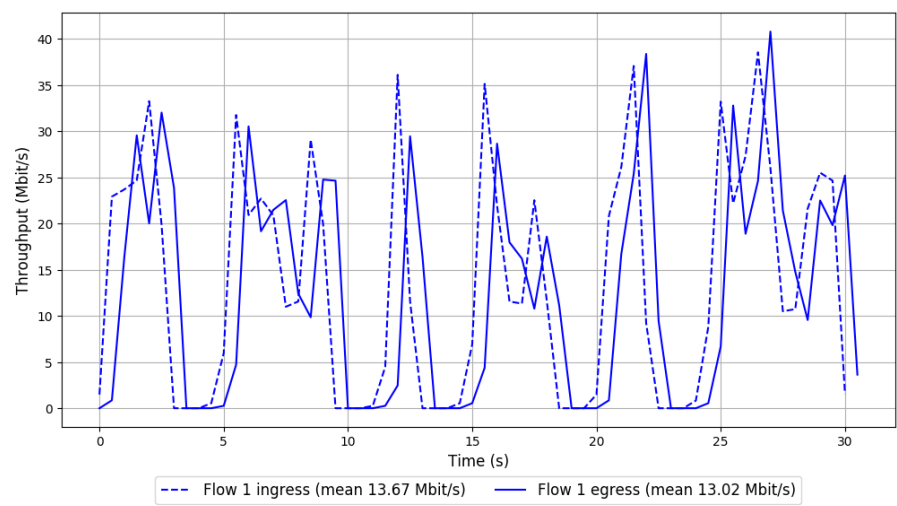


Run 6: Statistics of Copa

Start at: 2018-06-18 11:54:13
End at: 2018-06-18 11:54:43
Local clock offset: -0.343 ms
Remote clock offset: -0.521 ms

Below is generated by plot.py at 2018-06-18 14:44:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.02 Mbit/s
95th percentile per-packet one-way delay: 86.591 ms
Loss rate: 4.70%
-- Flow 1:
Average throughput: 13.02 Mbit/s
95th percentile per-packet one-way delay: 86.591 ms
Loss rate: 4.70%

Run 6: Report of Copa — Data Link

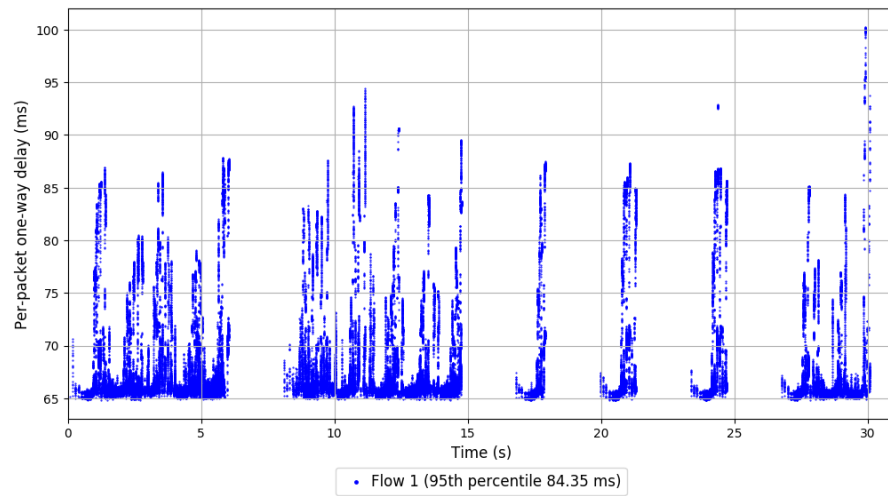
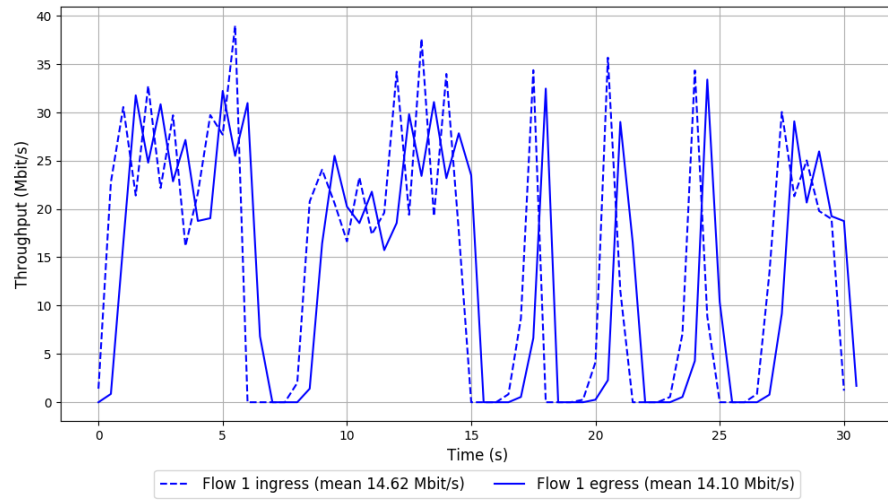


Run 7: Statistics of Copa

Start at: 2018-06-18 12:30:02
End at: 2018-06-18 12:30:32
Local clock offset: -4.674 ms
Remote clock offset: -0.646 ms

Below is generated by plot.py at 2018-06-18 14:44:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 14.10 Mbit/s
95th percentile per-packet one-way delay: 84.347 ms
Loss rate: 3.61%
-- Flow 1:
Average throughput: 14.10 Mbit/s
95th percentile per-packet one-way delay: 84.347 ms
Loss rate: 3.61%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-06-18 13:05:44

End at: 2018-06-18 13:06:14

Local clock offset: 4.255 ms

Remote clock offset: -1.89 ms

Below is generated by plot.py at 2018-06-18 14:44:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.51 Mbit/s

95th percentile per-packet one-way delay: 83.665 ms

Loss rate: 3.13%

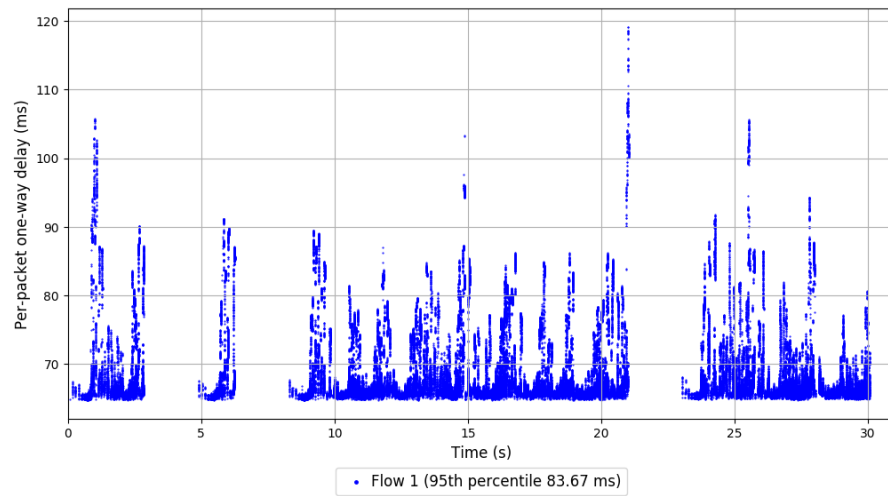
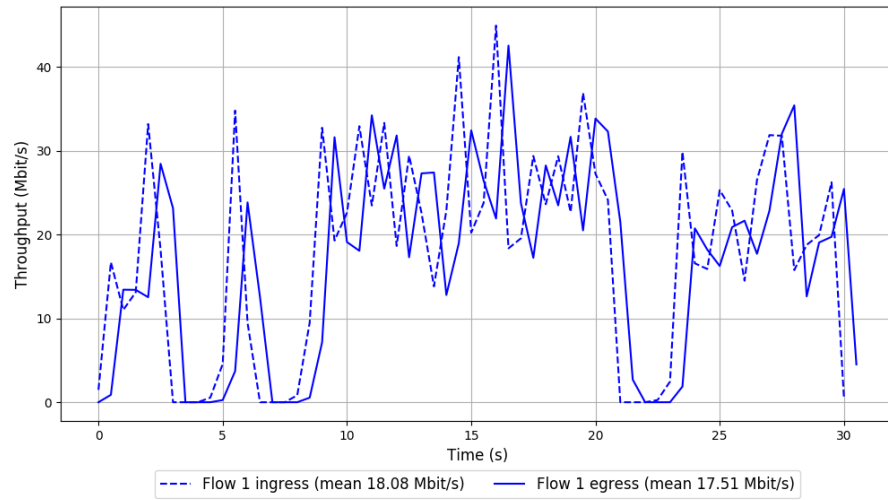
-- Flow 1:

Average throughput: 17.51 Mbit/s

95th percentile per-packet one-way delay: 83.665 ms

Loss rate: 3.13%

Run 8: Report of Copa — Data Link

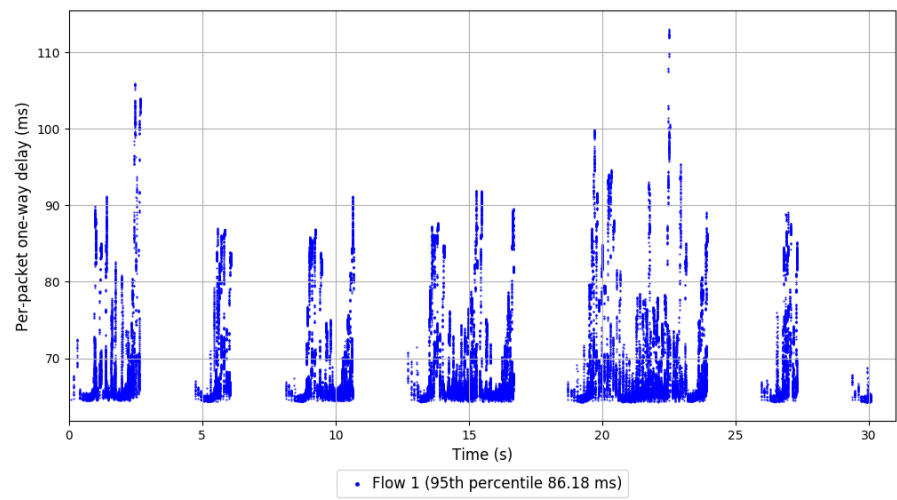
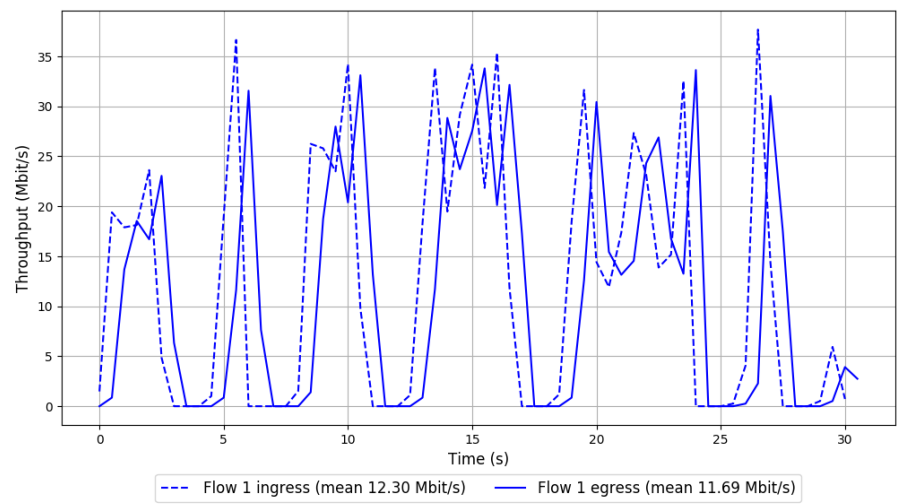


Run 9: Statistics of Copa

Start at: 2018-06-18 13:42:13
End at: 2018-06-18 13:42:43
Local clock offset: -0.118 ms
Remote clock offset: -1.558 ms

Below is generated by plot.py at 2018-06-18 14:44:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 11.69 Mbit/s
95th percentile per-packet one-way delay: 86.182 ms
Loss rate: 5.03%
-- Flow 1:
Average throughput: 11.69 Mbit/s
95th percentile per-packet one-way delay: 86.182 ms
Loss rate: 5.03%

Run 9: Report of Copa — Data Link

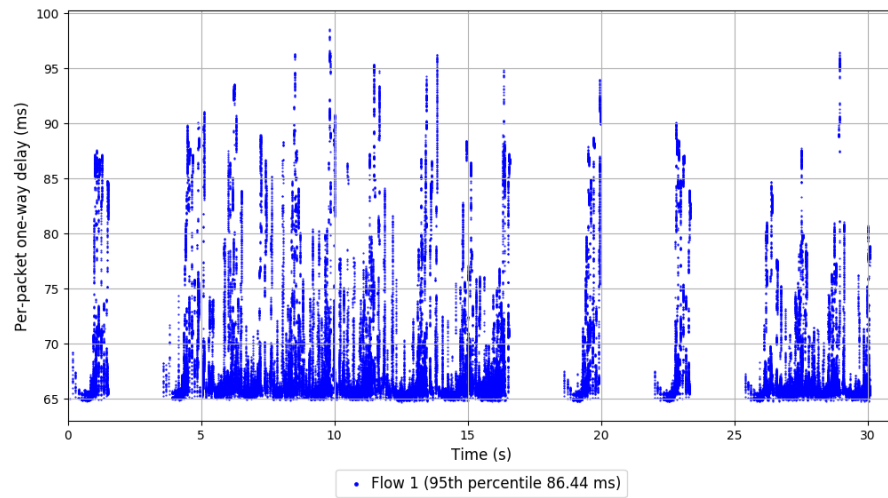
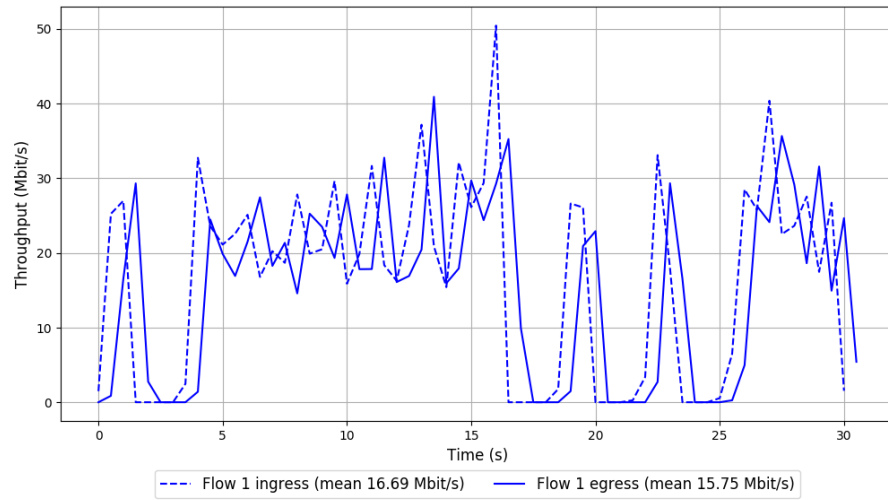


Run 10: Statistics of Copa

Start at: 2018-06-18 14:19:05
End at: 2018-06-18 14:19:35
Local clock offset: 4.323 ms
Remote clock offset: -1.633 ms

Below is generated by plot.py at 2018-06-18 14:45:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 15.75 Mbit/s
95th percentile per-packet one-way delay: 86.443 ms
Loss rate: 5.64%
-- Flow 1:
Average throughput: 15.75 Mbit/s
95th percentile per-packet one-way delay: 86.443 ms
Loss rate: 5.64%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-06-18 08:54:38

End at: 2018-06-18 08:55:08

Local clock offset: 2.06 ms

Remote clock offset: -1.34 ms

Below is generated by plot.py at 2018-06-18 14:45:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.69 Mbit/s

95th percentile per-packet one-way delay: 79.485 ms

Loss rate: 2.06%

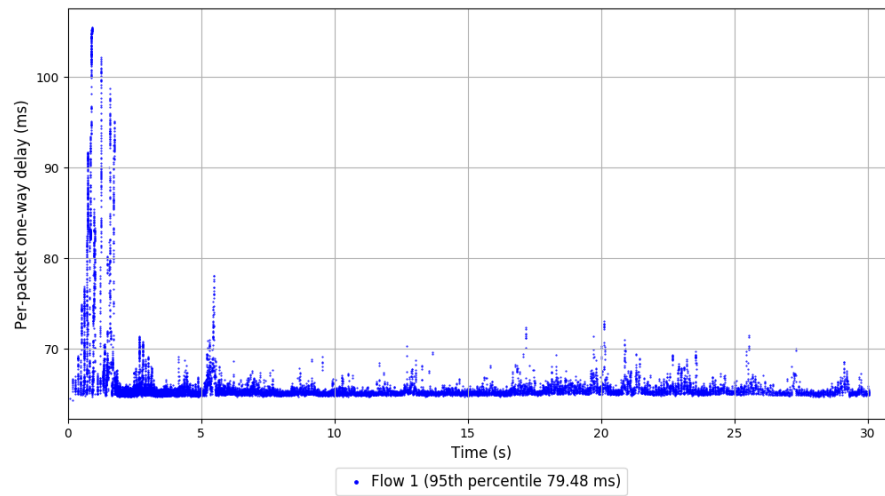
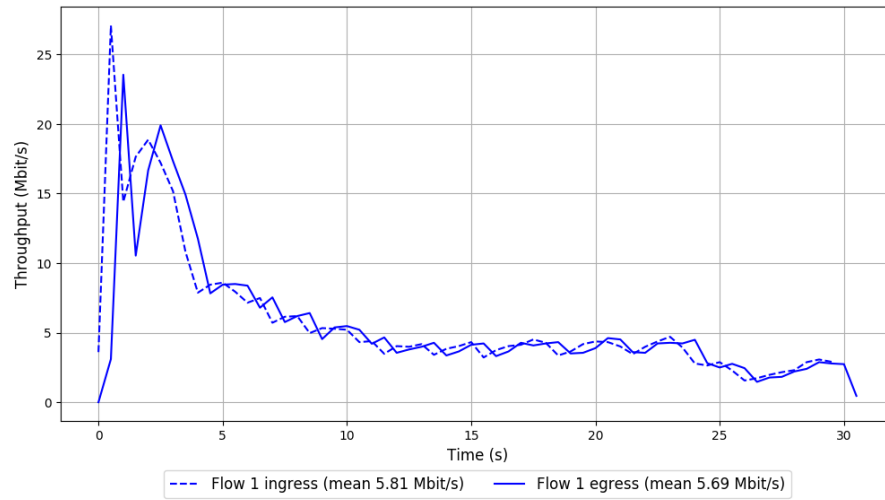
-- Flow 1:

Average throughput: 5.69 Mbit/s

95th percentile per-packet one-way delay: 79.485 ms

Loss rate: 2.06%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-06-18 09:27:33

End at: 2018-06-18 09:28:03

Local clock offset: 2.445 ms

Remote clock offset: 0.206 ms

Below is generated by plot.py at 2018-06-18 14:45:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.28 Mbit/s

95th percentile per-packet one-way delay: 67.276 ms

Loss rate: 0.24%

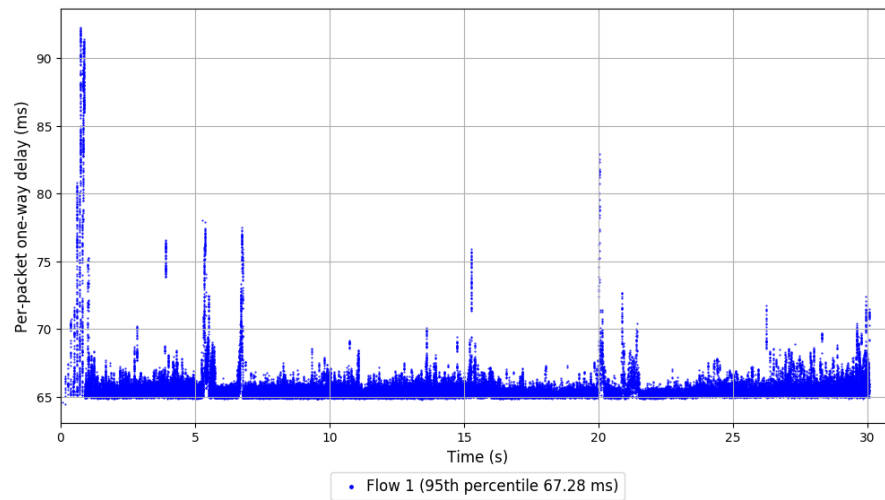
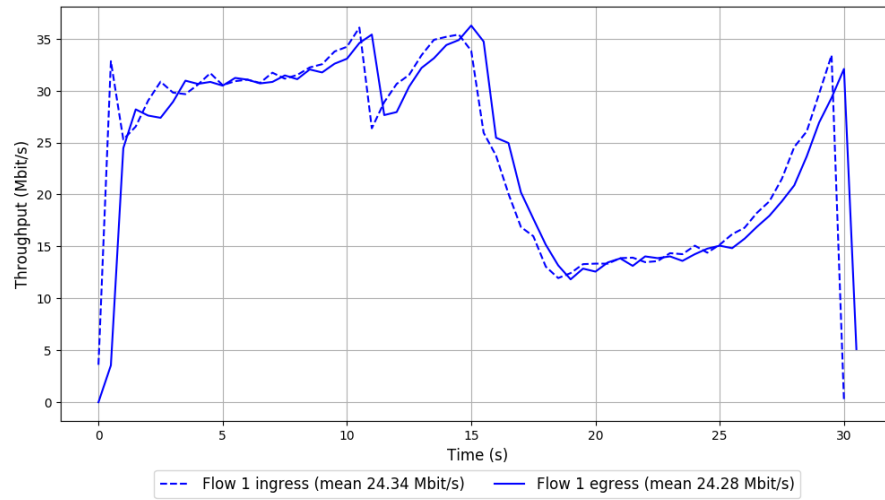
-- Flow 1:

Average throughput: 24.28 Mbit/s

95th percentile per-packet one-way delay: 67.276 ms

Loss rate: 0.24%

Run 2: Report of TCP Cubic — Data Link

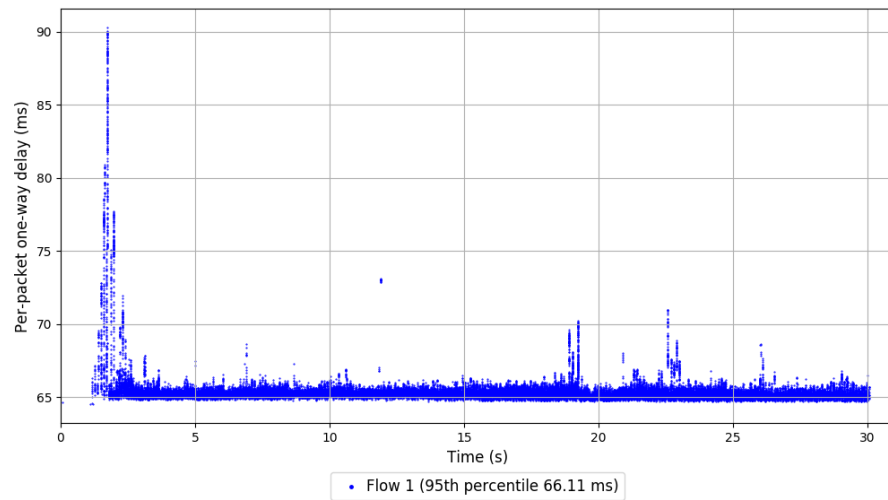
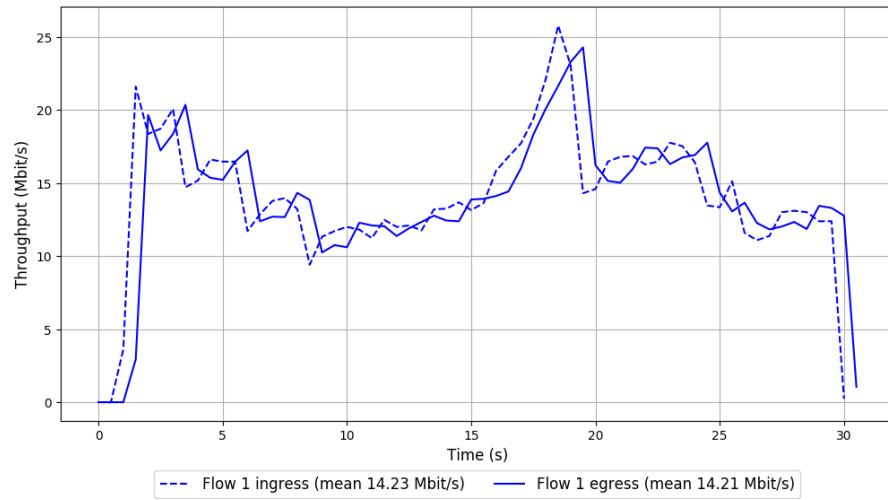


Run 3: Statistics of TCP Cubic

Start at: 2018-06-18 10:04:09
End at: 2018-06-18 10:04:39
Local clock offset: -1.184 ms
Remote clock offset: -1.001 ms

Below is generated by plot.py at 2018-06-18 14:45:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 14.21 Mbit/s
95th percentile per-packet one-way delay: 66.112 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 14.21 Mbit/s
95th percentile per-packet one-way delay: 66.112 ms
Loss rate: 0.19%

Run 3: Report of TCP Cubic — Data Link

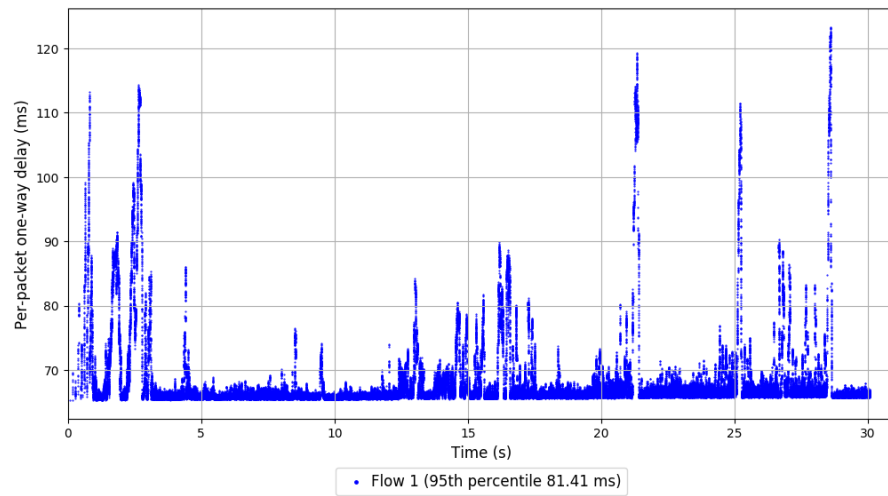
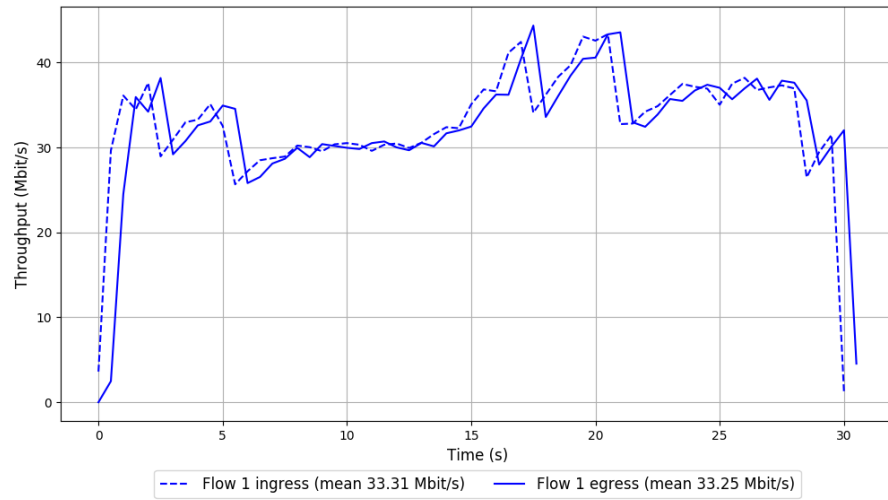


Run 4: Statistics of TCP Cubic

Start at: 2018-06-18 10:34:43
End at: 2018-06-18 10:35:13
Local clock offset: -3.574 ms
Remote clock offset: -2.839 ms

Below is generated by plot.py at 2018-06-18 14:45:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 33.25 Mbit/s
95th percentile per-packet one-way delay: 81.408 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 33.25 Mbit/s
95th percentile per-packet one-way delay: 81.408 ms
Loss rate: 0.19%

Run 4: Report of TCP Cubic — Data Link

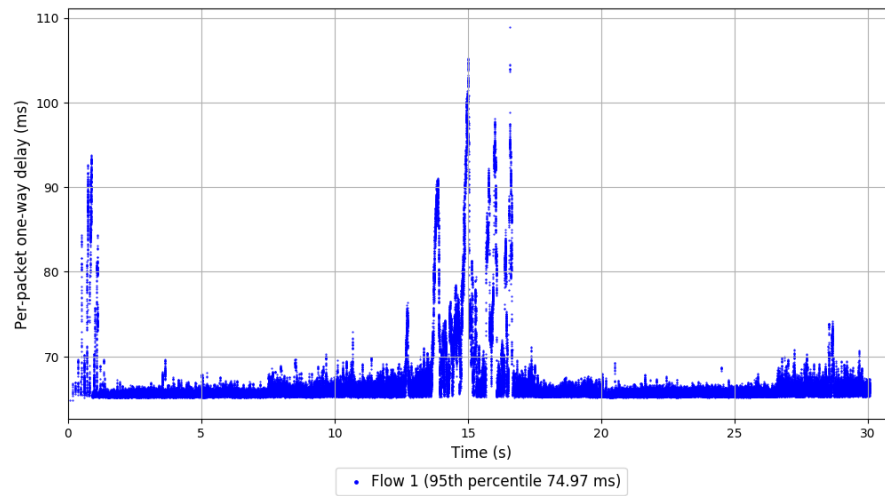
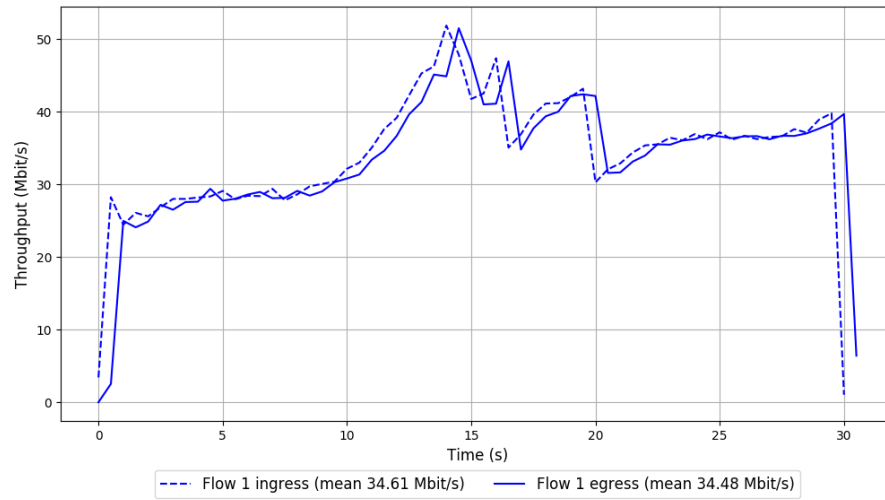


Run 5: Statistics of TCP Cubic

Start at: 2018-06-18 11:12:23
End at: 2018-06-18 11:12:53
Local clock offset: 5.811 ms
Remote clock offset: -1.448 ms

Below is generated by plot.py at 2018-06-18 14:45:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 34.48 Mbit/s
95th percentile per-packet one-way delay: 74.972 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 34.48 Mbit/s
95th percentile per-packet one-way delay: 74.972 ms
Loss rate: 0.37%

Run 5: Report of TCP Cubic — Data Link

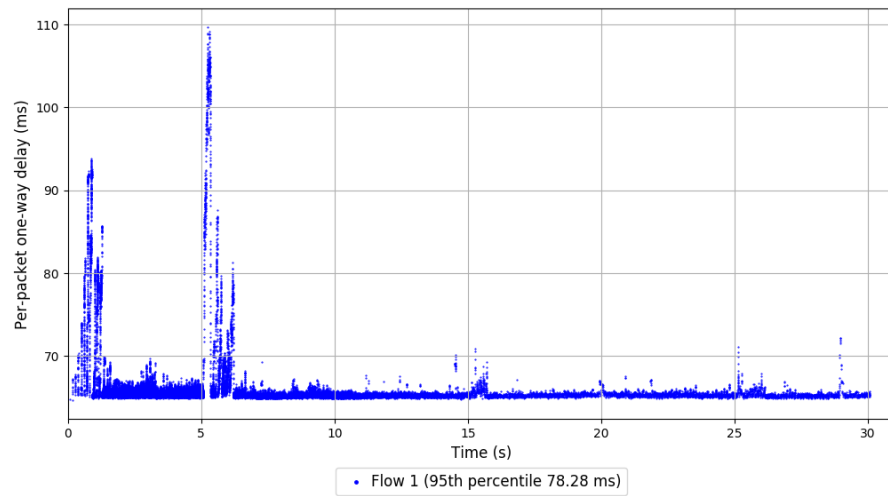
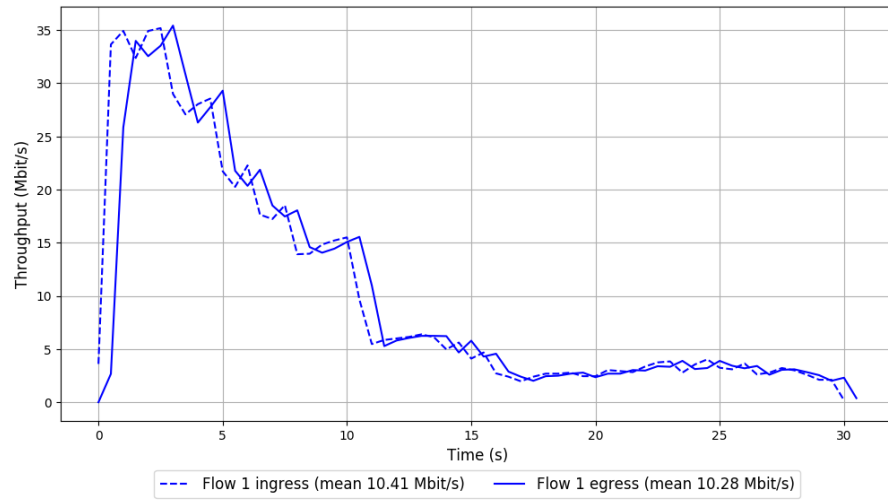


Run 6: Statistics of TCP Cubic

Start at: 2018-06-18 11:49:05
End at: 2018-06-18 11:49:35
Local clock offset: 0.381 ms
Remote clock offset: -0.535 ms

Below is generated by plot.py at 2018-06-18 14:45:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 10.28 Mbit/s
95th percentile per-packet one-way delay: 78.276 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 10.28 Mbit/s
95th percentile per-packet one-way delay: 78.276 ms
Loss rate: 1.20%

Run 6: Report of TCP Cubic — Data Link

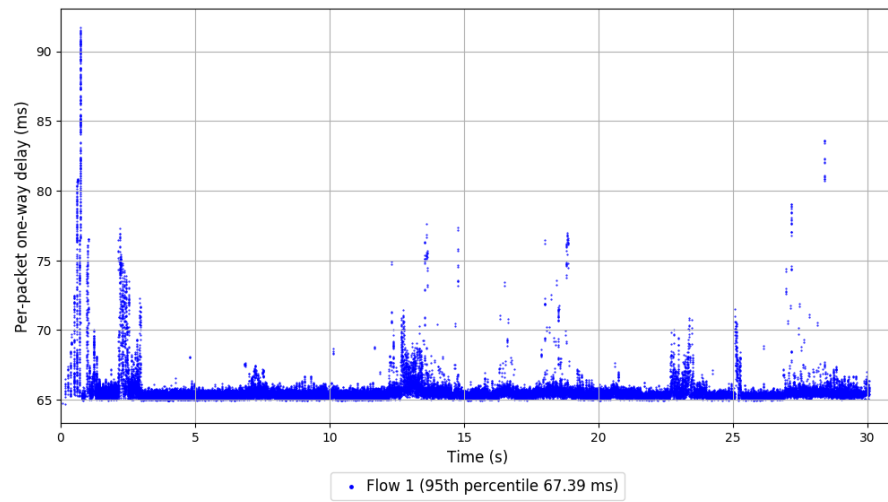
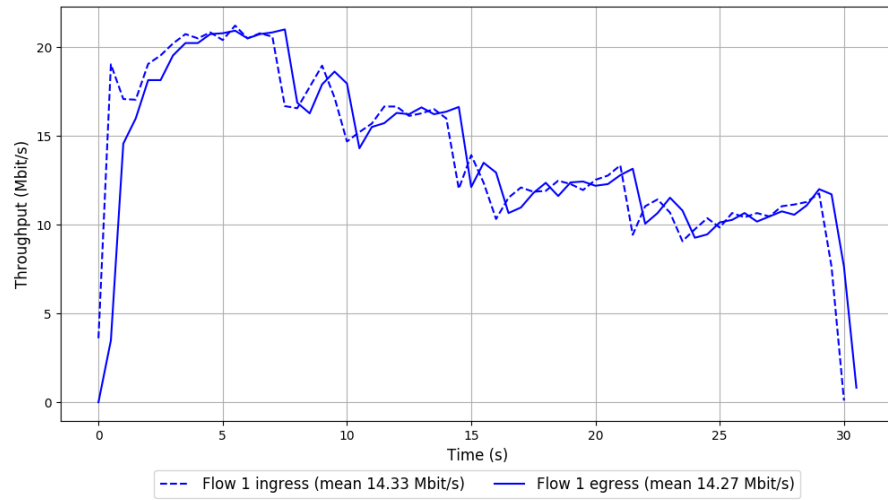


Run 7: Statistics of TCP Cubic

Start at: 2018-06-18 12:24:38
End at: 2018-06-18 12:25:08
Local clock offset: -4.135 ms
Remote clock offset: -0.578 ms

Below is generated by plot.py at 2018-06-18 14:45:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 14.27 Mbit/s
95th percentile per-packet one-way delay: 67.395 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 14.27 Mbit/s
95th percentile per-packet one-way delay: 67.395 ms
Loss rate: 0.42%

Run 7: Report of TCP Cubic — Data Link

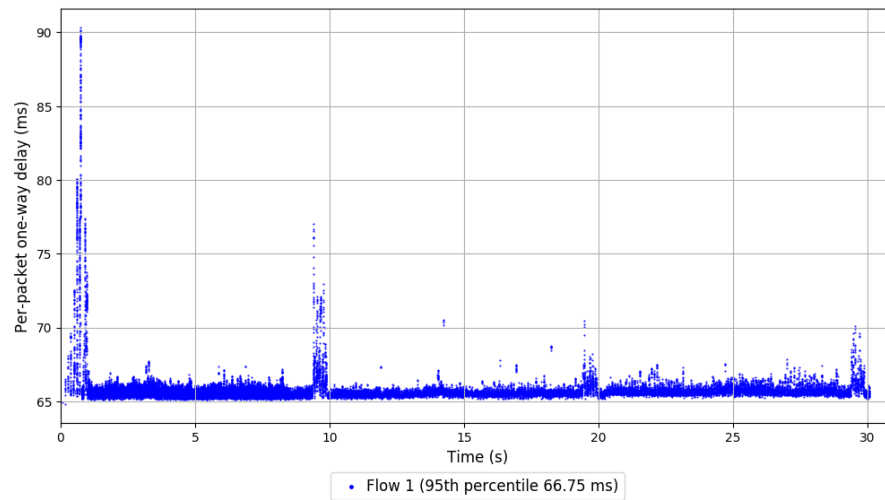
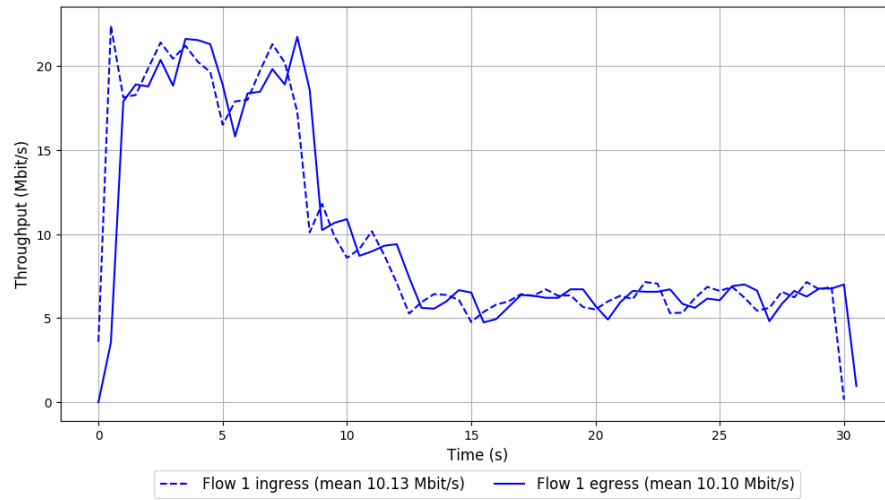


Run 8: Statistics of TCP Cubic

Start at: 2018-06-18 13:00:46
End at: 2018-06-18 13:01:16
Local clock offset: 4.106 ms
Remote clock offset: -1.912 ms

Below is generated by plot.py at 2018-06-18 14:45:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 10.10 Mbit/s
95th percentile per-packet one-way delay: 66.747 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 10.10 Mbit/s
95th percentile per-packet one-way delay: 66.747 ms
Loss rate: 0.34%

Run 8: Report of TCP Cubic — Data Link

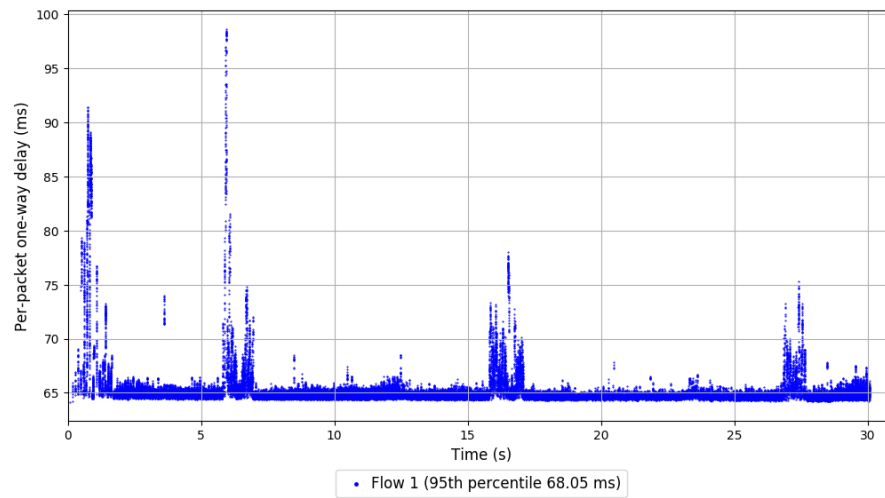
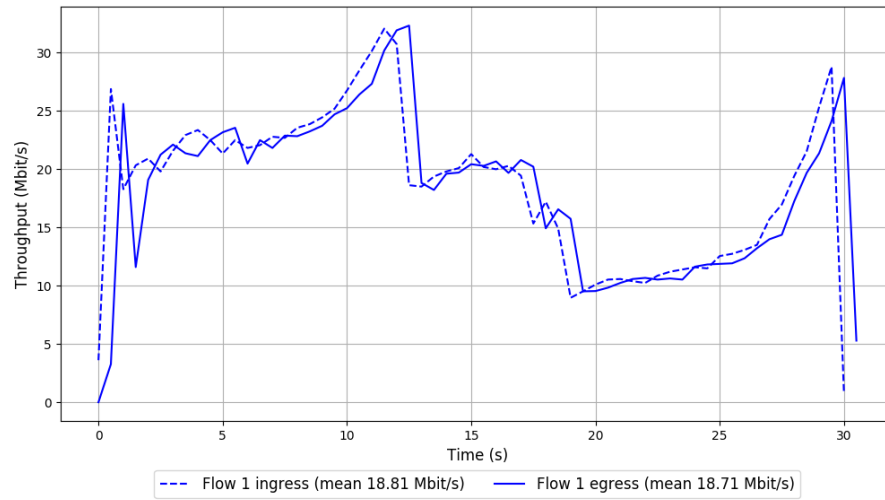


Run 9: Statistics of TCP Cubic

Start at: 2018-06-18 13:36:40
End at: 2018-06-18 13:37:10
Local clock offset: 2.285 ms
Remote clock offset: -1.444 ms

Below is generated by plot.py at 2018-06-18 14:45:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 18.71 Mbit/s
95th percentile per-packet one-way delay: 68.051 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 18.71 Mbit/s
95th percentile per-packet one-way delay: 68.051 ms
Loss rate: 0.55%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-06-18 14:13:24

End at: 2018-06-18 14:13:54

Local clock offset: 3.119 ms

Remote clock offset: -2.604 ms

Below is generated by plot.py at 2018-06-18 14:45:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.66 Mbit/s

95th percentile per-packet one-way delay: 66.116 ms

Loss rate: 0.13%

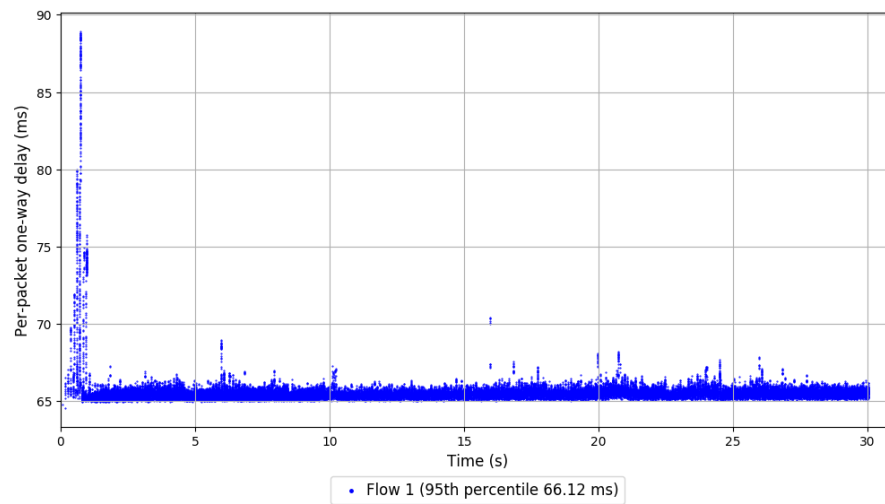
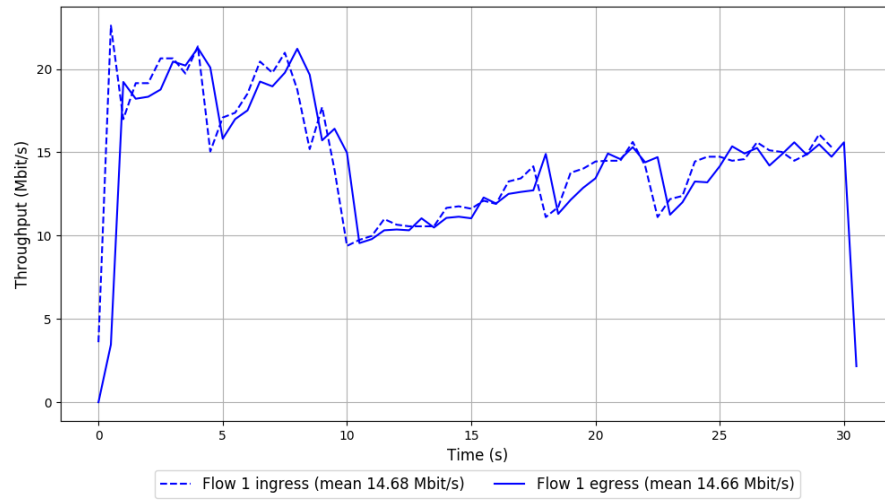
-- Flow 1:

Average throughput: 14.66 Mbit/s

95th percentile per-packet one-way delay: 66.116 ms

Loss rate: 0.13%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-06-18 09:14:44

End at: 2018-06-18 09:15:14

Local clock offset: 2.742 ms

Remote clock offset: -0.6 ms

Below is generated by plot.py at 2018-06-18 14:45:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.86 Mbit/s

95th percentile per-packet one-way delay: 84.340 ms

Loss rate: 33.53%

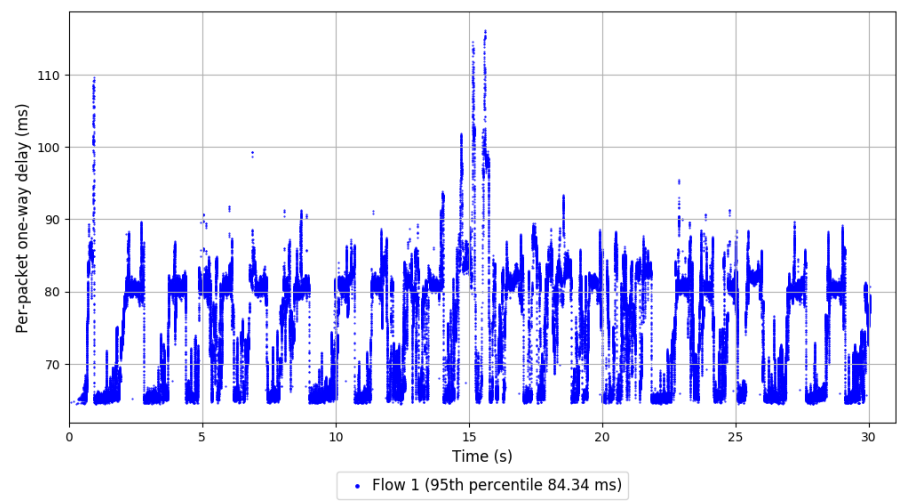
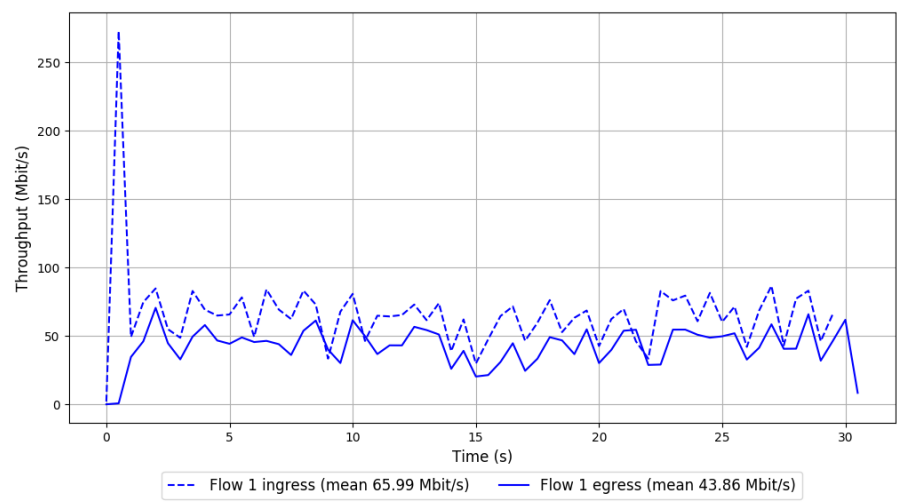
-- Flow 1:

Average throughput: 43.86 Mbit/s

95th percentile per-packet one-way delay: 84.340 ms

Loss rate: 33.53%

Run 1: Report of FillP — Data Link

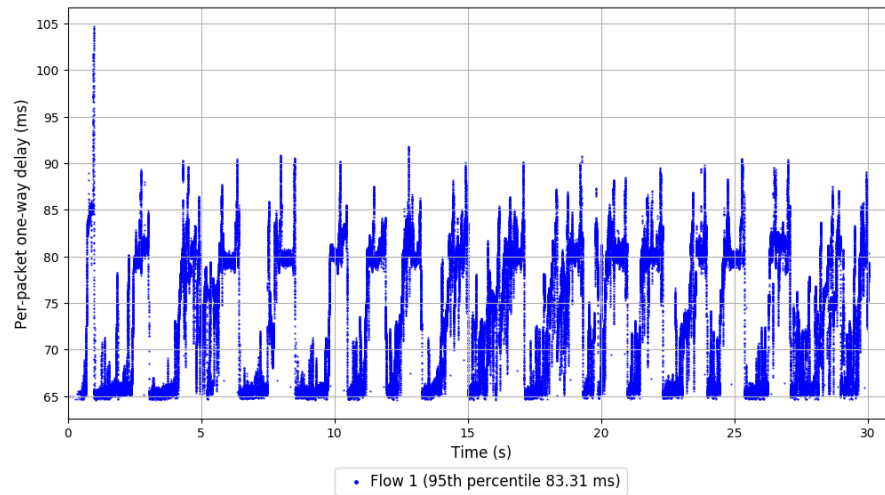
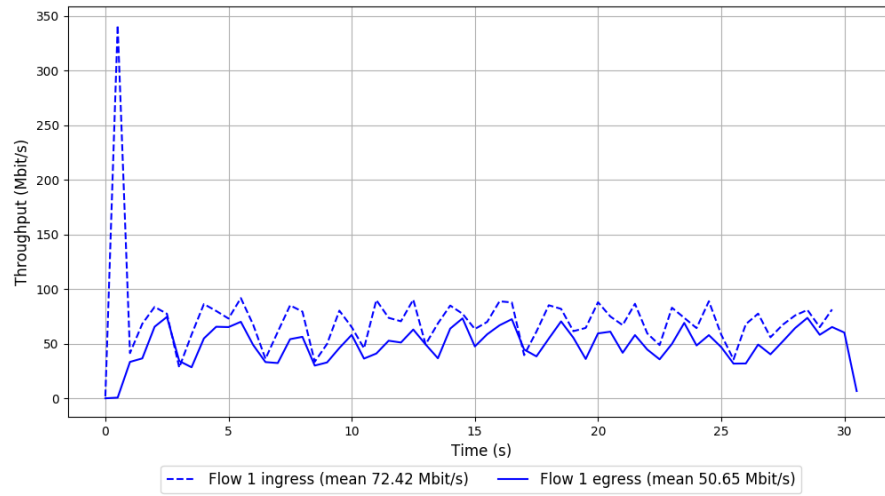


Run 2: Statistics of FillP

Start at: 2018-06-18 09:50:15
End at: 2018-06-18 09:50:45
Local clock offset: 0.259 ms
Remote clock offset: -0.408 ms

Below is generated by plot.py at 2018-06-18 14:46:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.65 Mbit/s
95th percentile per-packet one-way delay: 83.314 ms
Loss rate: 30.06%
-- Flow 1:
Average throughput: 50.65 Mbit/s
95th percentile per-packet one-way delay: 83.314 ms
Loss rate: 30.06%

Run 2: Report of FillP — Data Link

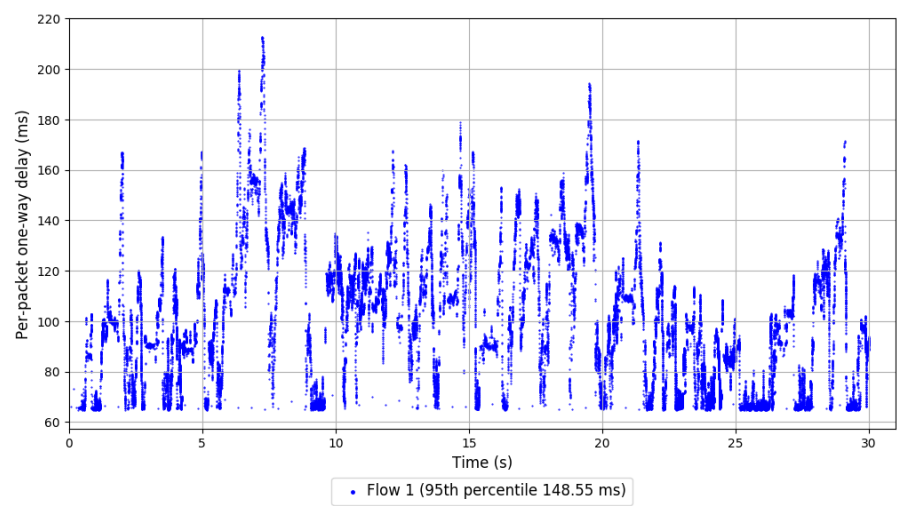
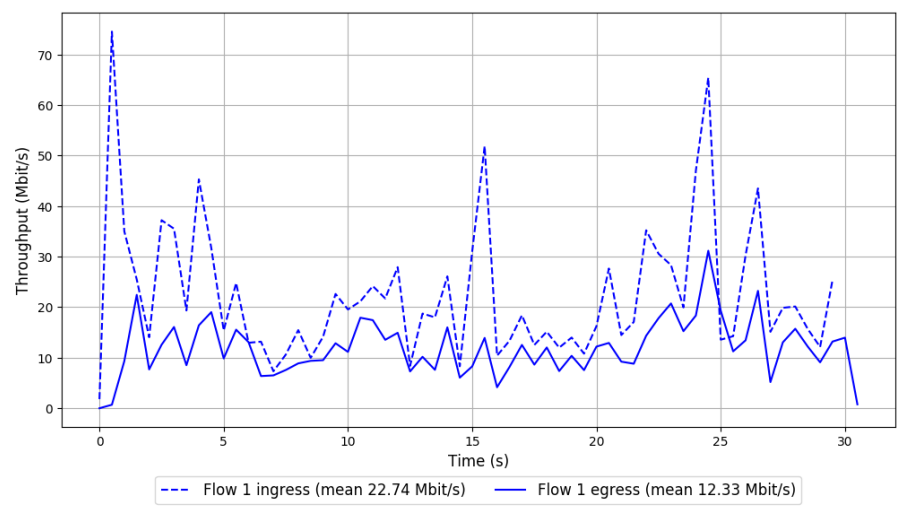


Run 3: Statistics of FillP

Start at: 2018-06-18 10:24:59
End at: 2018-06-18 10:25:29
Local clock offset: -5.324 ms
Remote clock offset: -2.202 ms

Below is generated by plot.py at 2018-06-18 14:46:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.33 Mbit/s
95th percentile per-packet one-way delay: 148.552 ms
Loss rate: 45.77%
-- Flow 1:
Average throughput: 12.33 Mbit/s
95th percentile per-packet one-way delay: 148.552 ms
Loss rate: 45.77%

Run 3: Report of FillP — Data Link

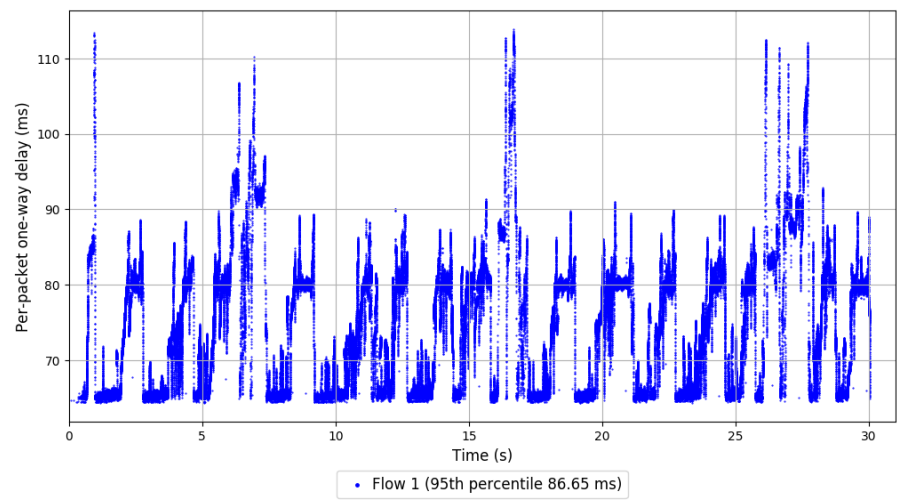
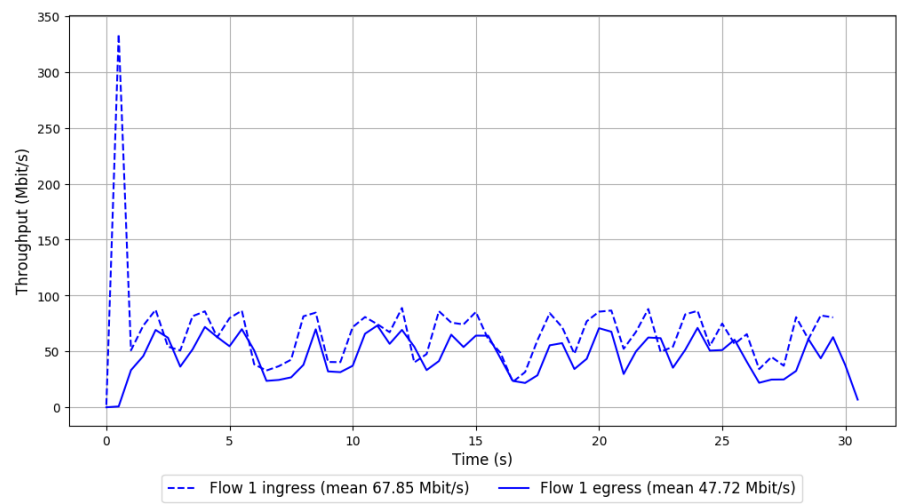


Run 4: Statistics of FillP

Start at: 2018-06-18 10:59:29
End at: 2018-06-18 10:59:59
Local clock offset: 3.377 ms
Remote clock offset: -2.126 ms

Below is generated by plot.py at 2018-06-18 14:46:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 47.72 Mbit/s
95th percentile per-packet one-way delay: 86.653 ms
Loss rate: 29.67%
-- Flow 1:
Average throughput: 47.72 Mbit/s
95th percentile per-packet one-way delay: 86.653 ms
Loss rate: 29.67%

Run 4: Report of FillP — Data Link

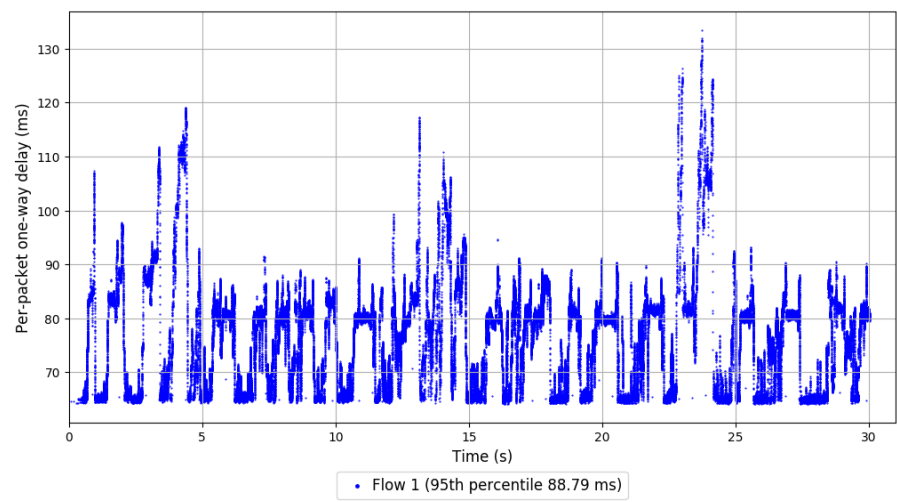
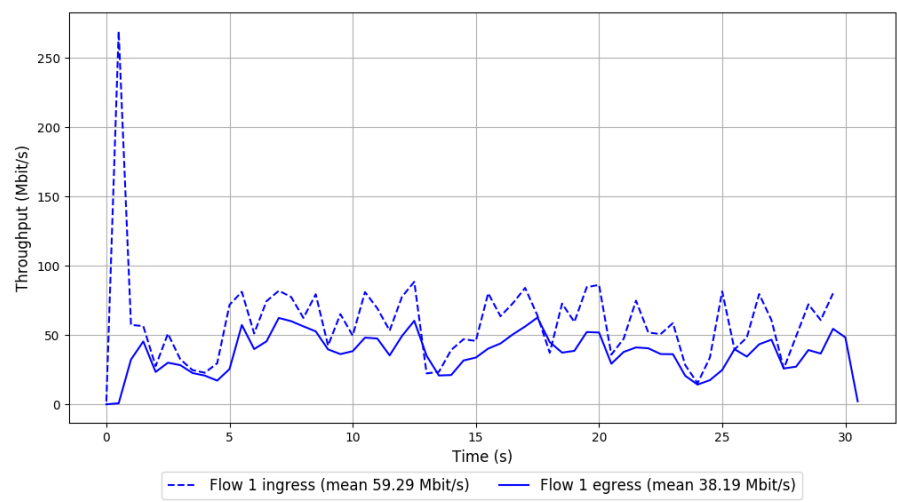


Run 5: Statistics of FillP

Start at: 2018-06-18 11:36:42
End at: 2018-06-18 11:37:12
Local clock offset: 4.15 ms
Remote clock offset: -0.711 ms

Below is generated by plot.py at 2018-06-18 14:46:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 38.19 Mbit/s
95th percentile per-packet one-way delay: 88.791 ms
Loss rate: 35.58%
-- Flow 1:
Average throughput: 38.19 Mbit/s
95th percentile per-packet one-way delay: 88.791 ms
Loss rate: 35.58%

Run 5: Report of FillP — Data Link

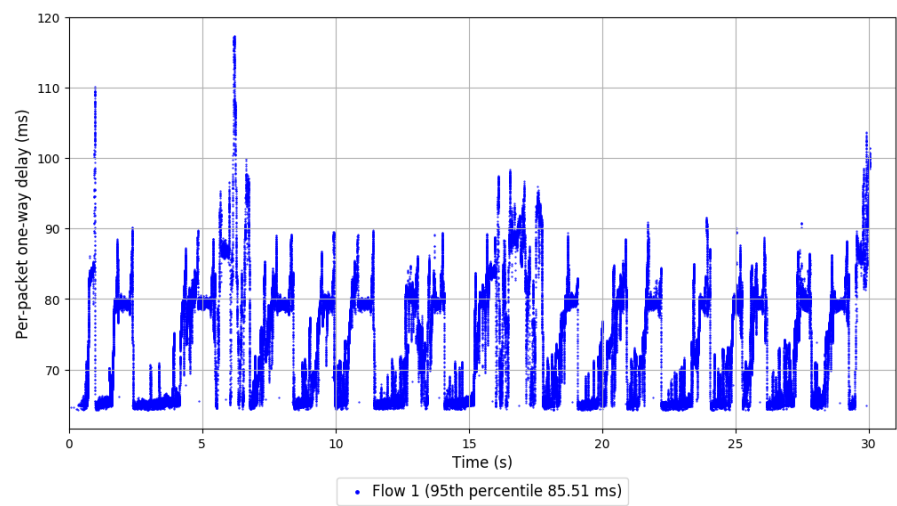
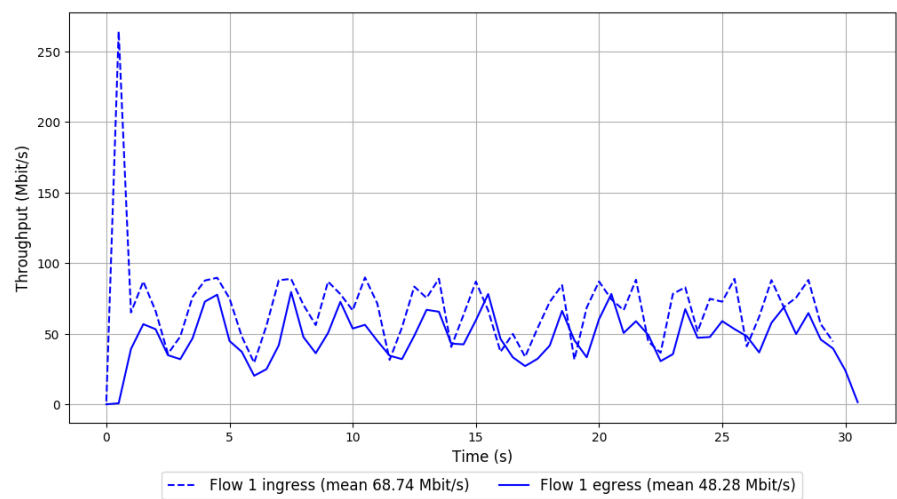


Run 6: Statistics of FillP

Start at: 2018-06-18 12:12:14
End at: 2018-06-18 12:12:44
Local clock offset: -2.969 ms
Remote clock offset: -0.628 ms

Below is generated by plot.py at 2018-06-18 14:46:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 48.28 Mbit/s
95th percentile per-packet one-way delay: 85.511 ms
Loss rate: 29.74%
-- Flow 1:
Average throughput: 48.28 Mbit/s
95th percentile per-packet one-way delay: 85.511 ms
Loss rate: 29.74%

Run 6: Report of FillP — Data Link

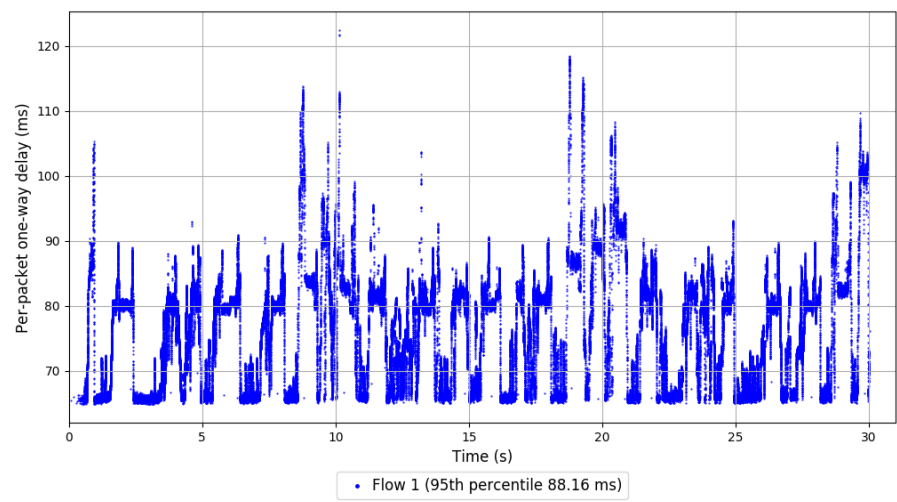
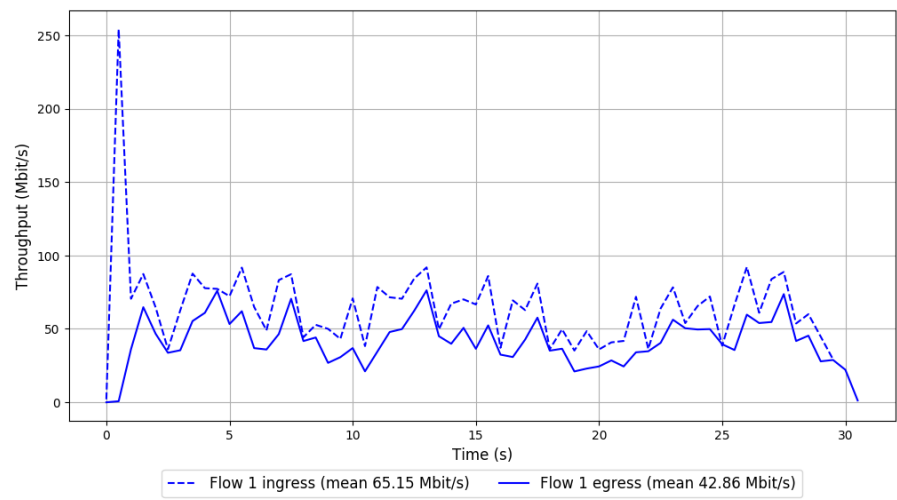


Run 7: Statistics of FillP

Start at: 2018-06-18 12:47:56
End at: 2018-06-18 12:48:26
Local clock offset: 2.358 ms
Remote clock offset: -1.604 ms

Below is generated by plot.py at 2018-06-18 14:46:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 42.86 Mbit/s
95th percentile per-packet one-way delay: 88.160 ms
Loss rate: 34.20%
-- Flow 1:
Average throughput: 42.86 Mbit/s
95th percentile per-packet one-way delay: 88.160 ms
Loss rate: 34.20%

Run 7: Report of FillP — Data Link

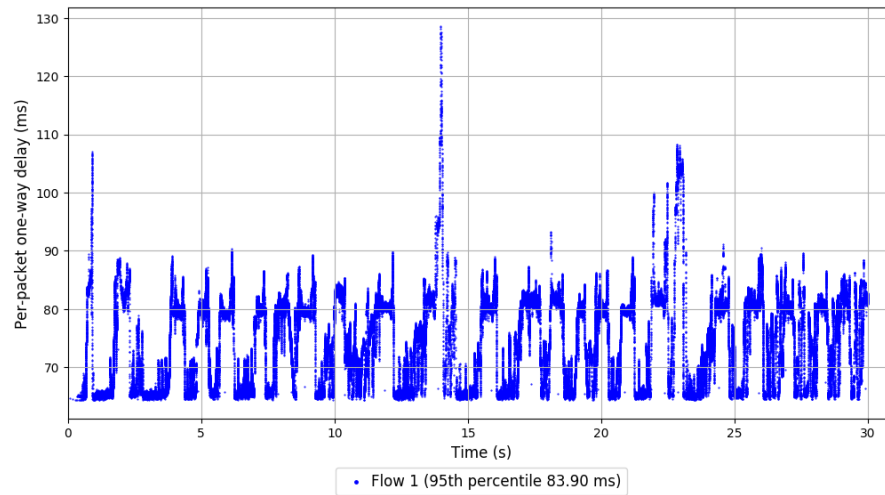
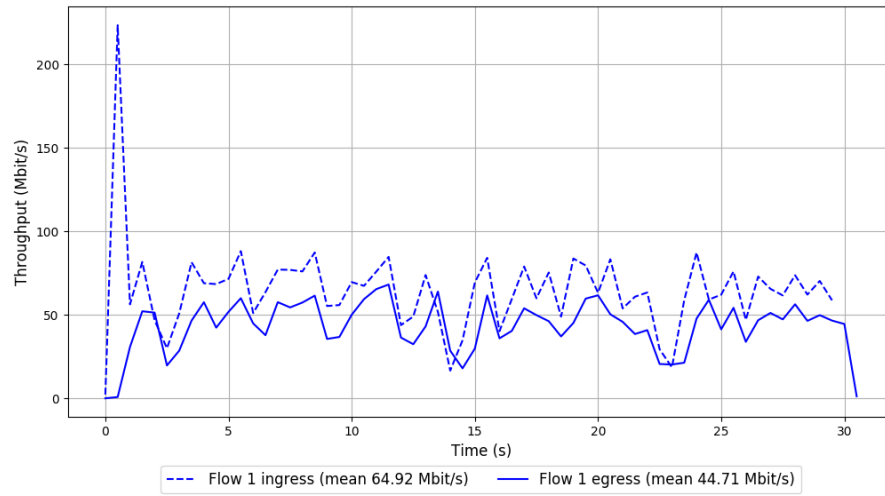


Run 8: Statistics of FillP

Start at: 2018-06-18 13:23:43
End at: 2018-06-18 13:24:13
Local clock offset: 4.922 ms
Remote clock offset: -1.578 ms

Below is generated by plot.py at 2018-06-18 14:46:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 44.71 Mbit/s
95th percentile per-packet one-way delay: 83.899 ms
Loss rate: 31.13%
-- Flow 1:
Average throughput: 44.71 Mbit/s
95th percentile per-packet one-way delay: 83.899 ms
Loss rate: 31.13%

Run 8: Report of FillP — Data Link

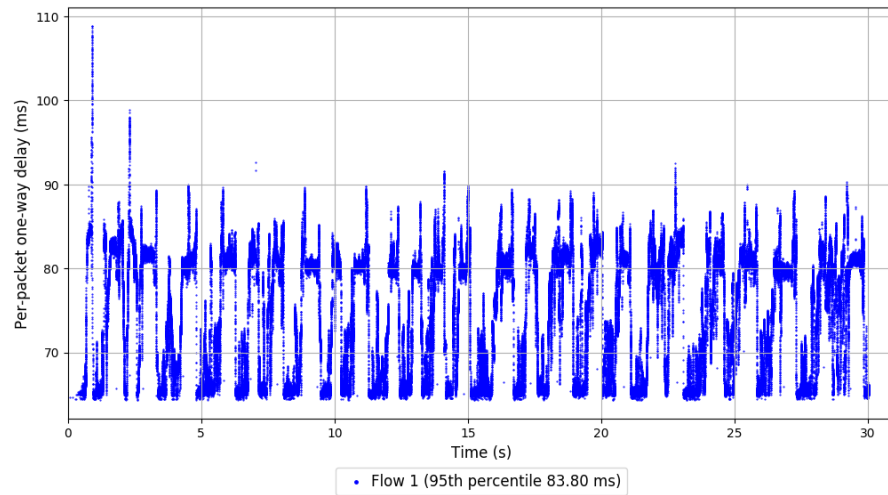
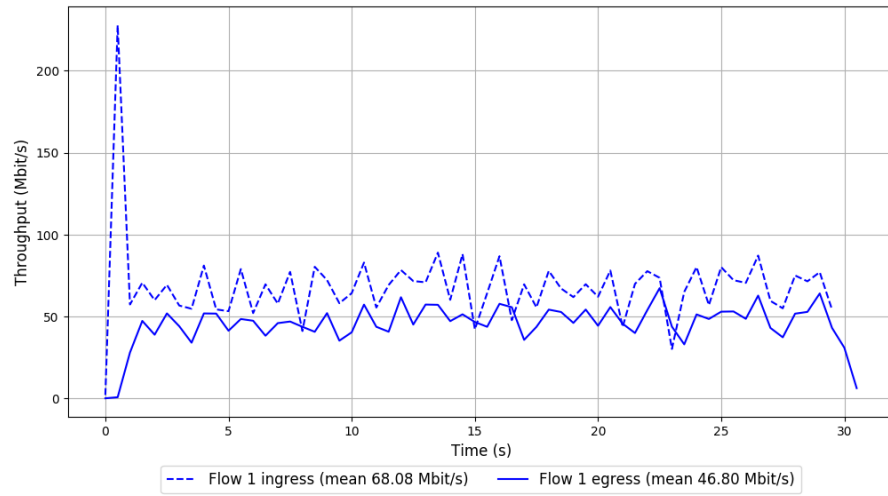


Run 9: Statistics of FillP

Start at: 2018-06-18 13:59:44
End at: 2018-06-18 14:00:15
Local clock offset: -2.929 ms
Remote clock offset: -2.363 ms

Below is generated by plot.py at 2018-06-18 14:46:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 46.80 Mbit/s
95th percentile per-packet one-way delay: 83.796 ms
Loss rate: 31.26%
-- Flow 1:
Average throughput: 46.80 Mbit/s
95th percentile per-packet one-way delay: 83.796 ms
Loss rate: 31.26%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-06-18 14:37:15

End at: 2018-06-18 14:37:45

Local clock offset: 2.076 ms

Remote clock offset: 0.48 ms

Below is generated by plot.py at 2018-06-18 14:46:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.04 Mbit/s

95th percentile per-packet one-way delay: 82.482 ms

Loss rate: 26.96%

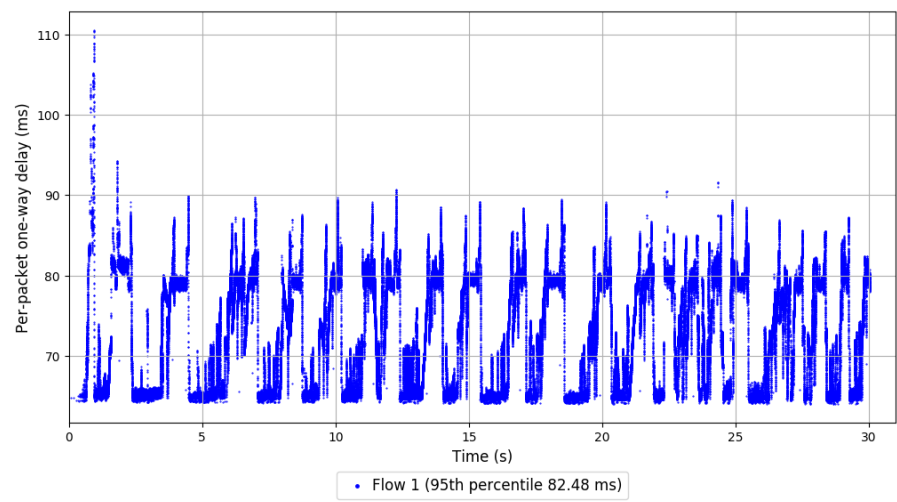
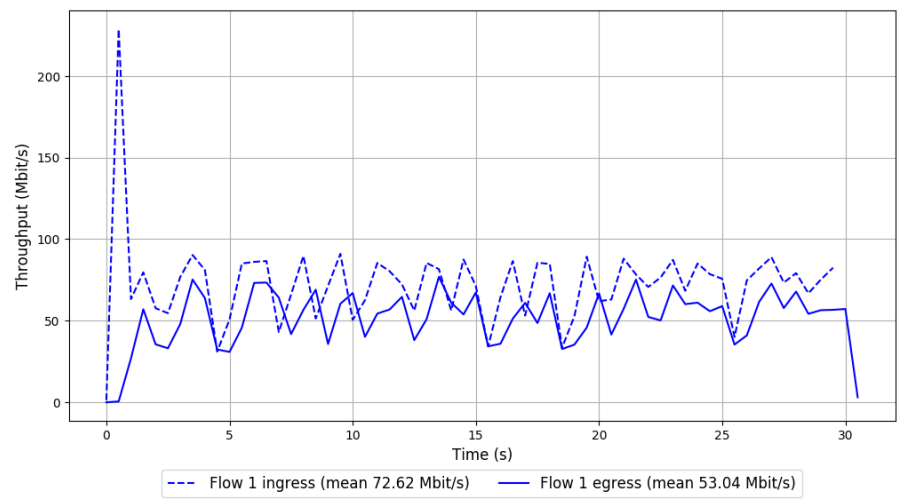
-- Flow 1:

Average throughput: 53.04 Mbit/s

95th percentile per-packet one-way delay: 82.482 ms

Loss rate: 26.96%

Run 10: Report of FillP — Data Link

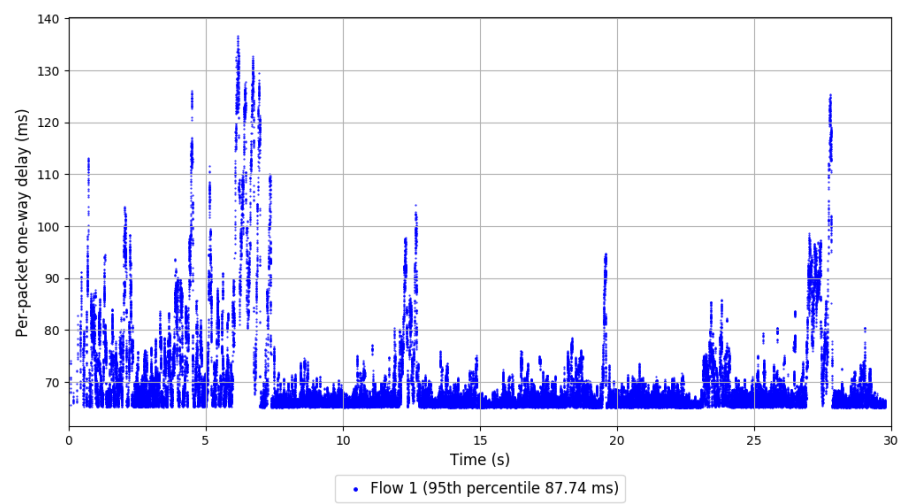
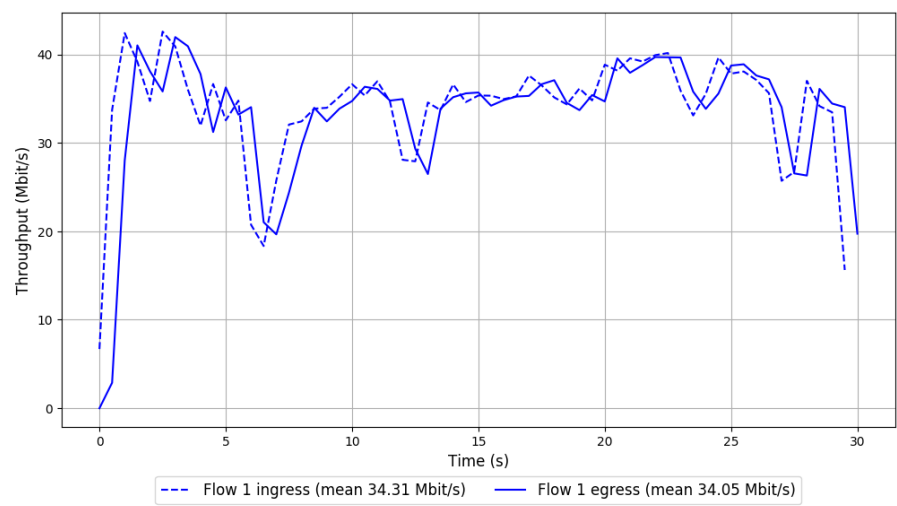


```
Run 1: Statistics of Indigo

Start at: 2018-06-18 09:09:57
End at: 2018-06-18 09:10:27
Local clock offset: 2.569 ms
Remote clock offset: -1.19 ms

# Below is generated by plot.py at 2018-06-18 14:46:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.05 Mbit/s
95th percentile per-packet one-way delay: 87.743 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 34.05 Mbit/s
95th percentile per-packet one-way delay: 87.743 ms
Loss rate: 0.76%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-06-18 09:45:07

End at: 2018-06-18 09:45:37

Local clock offset: 0.885 ms

Remote clock offset: 0.304 ms

Below is generated by plot.py at 2018-06-18 14:46:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.80 Mbit/s

95th percentile per-packet one-way delay: 93.622 ms

Loss rate: 2.71%

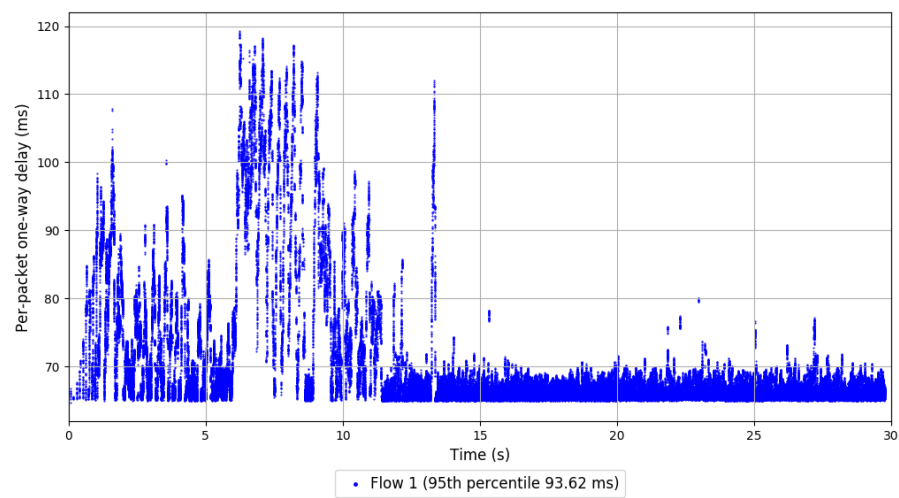
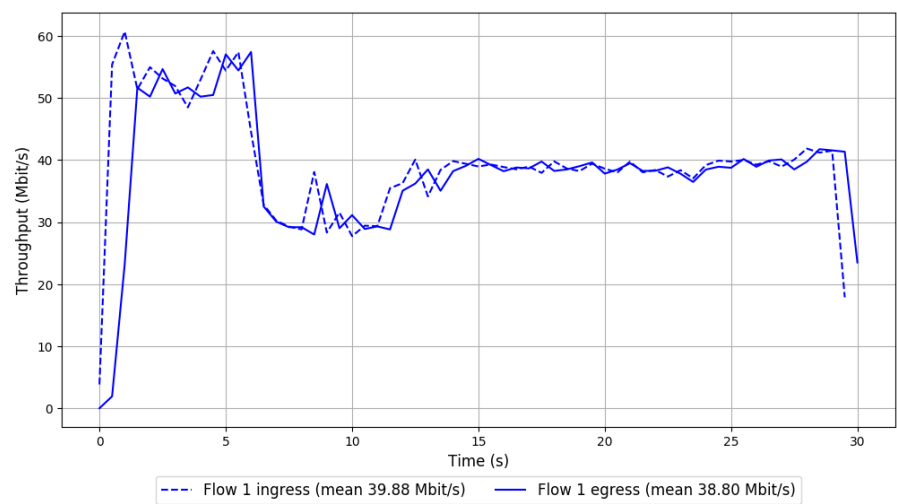
-- Flow 1:

Average throughput: 38.80 Mbit/s

95th percentile per-packet one-way delay: 93.622 ms

Loss rate: 2.71%

Run 2: Report of Indigo — Data Link

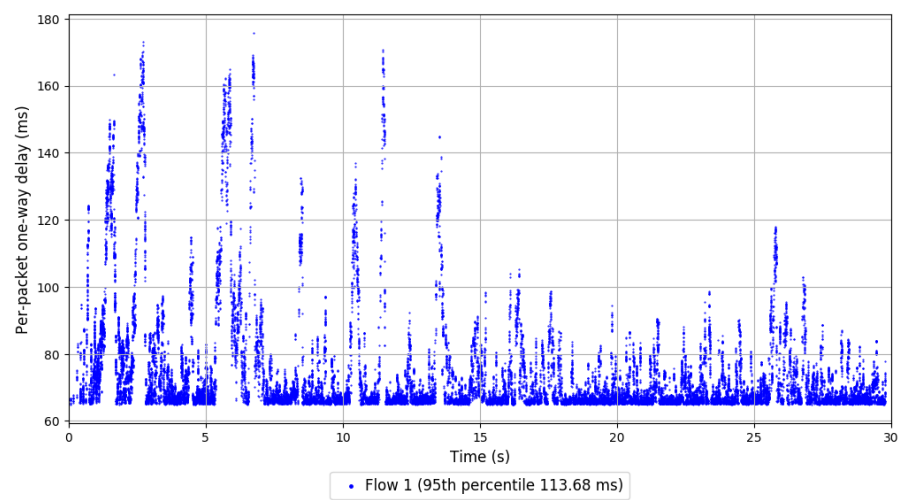
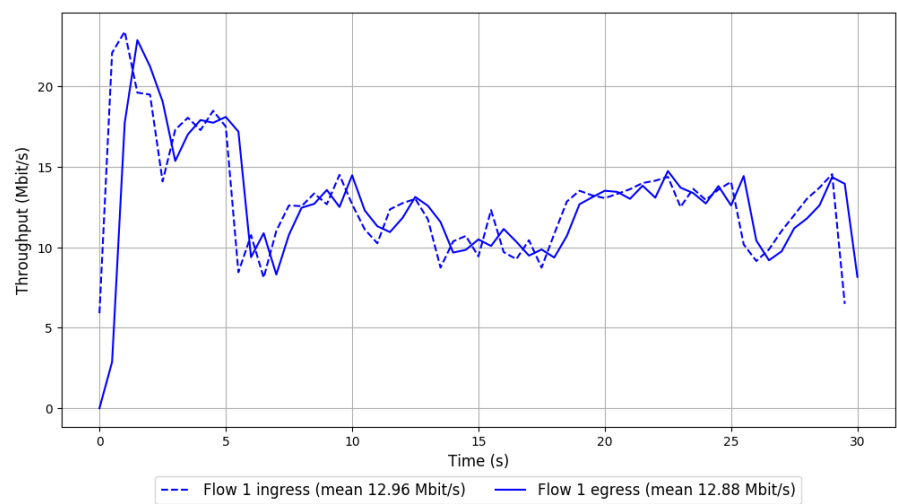


Run 3: Statistics of Indigo

Start at: 2018-06-18 10:21:28
End at: 2018-06-18 10:21:58
Local clock offset: -4.934 ms
Remote clock offset: -2.022 ms

Below is generated by plot.py at 2018-06-18 14:46:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.88 Mbit/s
95th percentile per-packet one-way delay: 113.679 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 12.88 Mbit/s
95th percentile per-packet one-way delay: 113.679 ms
Loss rate: 0.55%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-06-18 10:54:34

End at: 2018-06-18 10:55:04

Local clock offset: 2.788 ms

Remote clock offset: -2.716 ms

Below is generated by plot.py at 2018-06-18 14:46:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.15 Mbit/s

95th percentile per-packet one-way delay: 98.820 ms

Loss rate: 3.09%

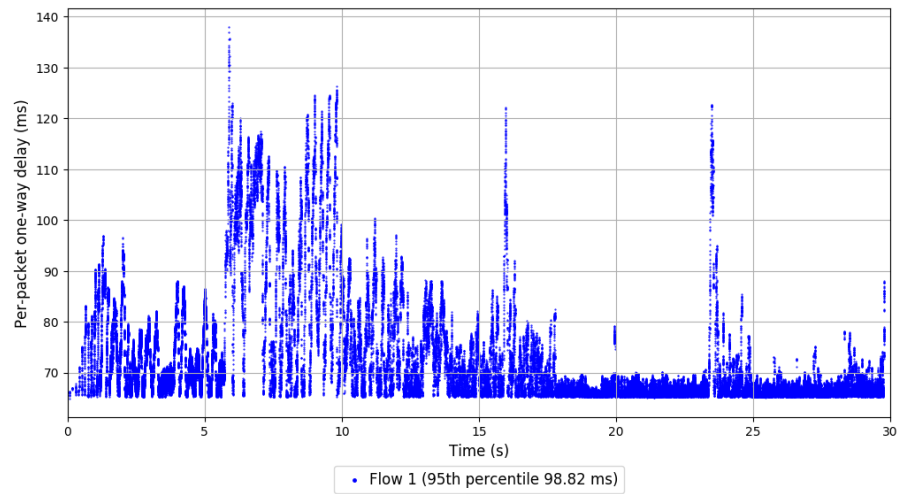
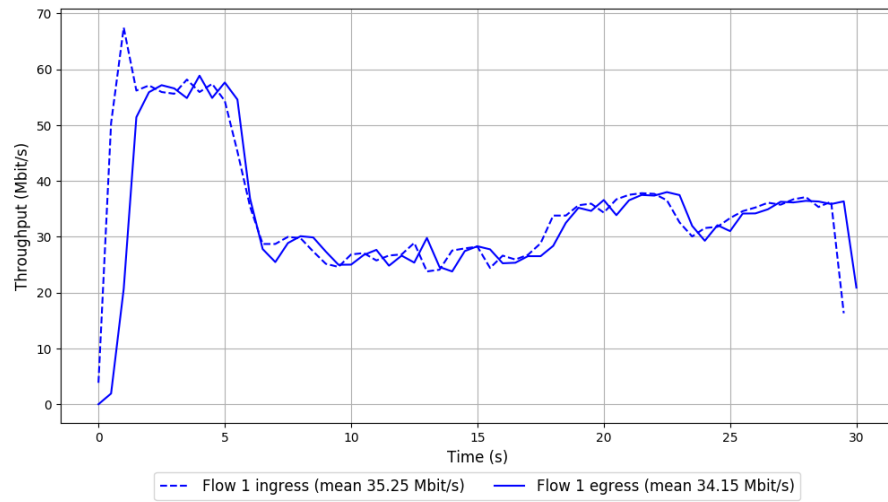
-- Flow 1:

Average throughput: 34.15 Mbit/s

95th percentile per-packet one-way delay: 98.820 ms

Loss rate: 3.09%

Run 4: Report of Indigo — Data Link

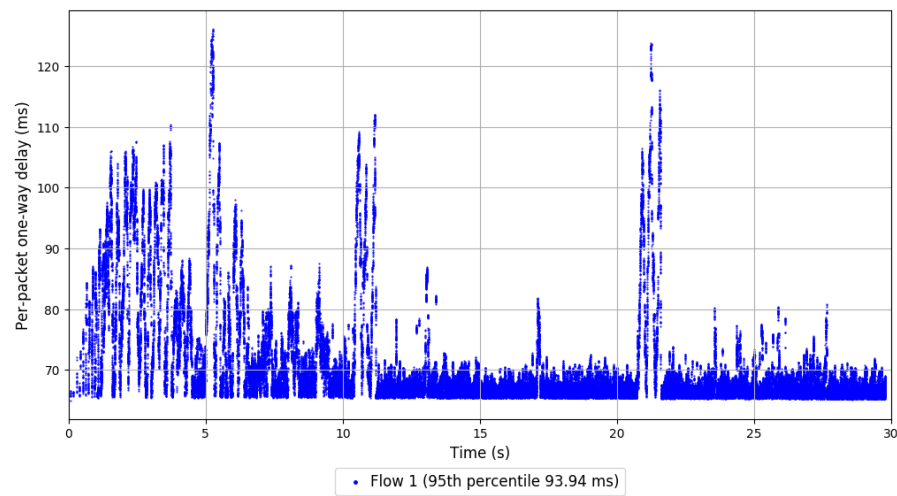
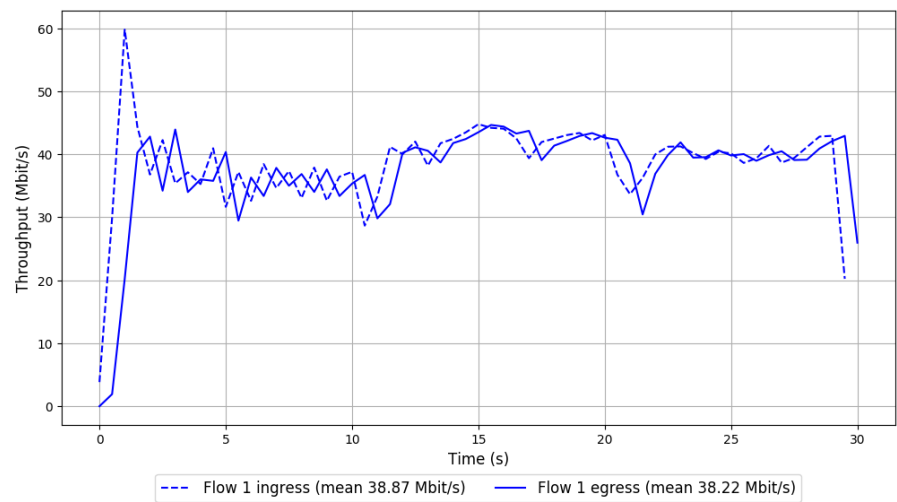


Run 5: Statistics of Indigo

Start at: 2018-06-18 11:31:13
End at: 2018-06-18 11:31:43
Local clock offset: 7.72 ms
Remote clock offset: -0.943 ms

Below is generated by plot.py at 2018-06-18 14:46:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 38.22 Mbit/s
95th percentile per-packet one-way delay: 93.943 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 38.22 Mbit/s
95th percentile per-packet one-way delay: 93.943 ms
Loss rate: 1.67%

Run 5: Report of Indigo — Data Link

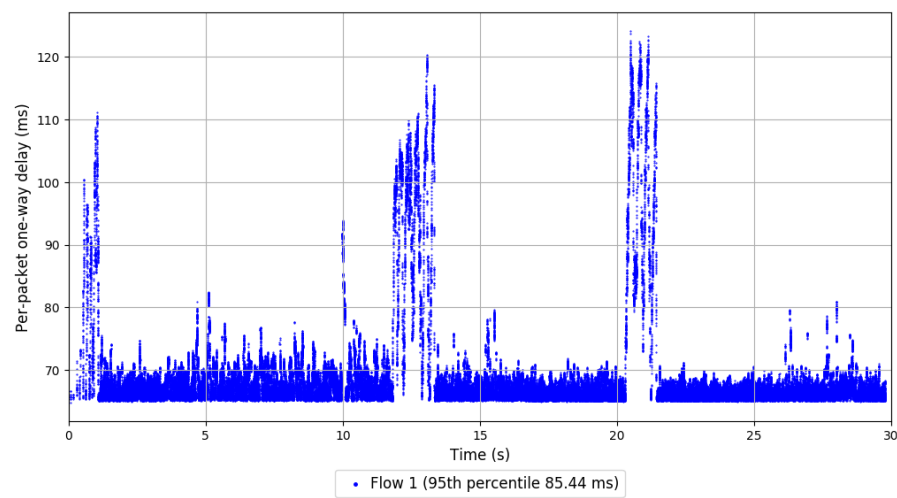
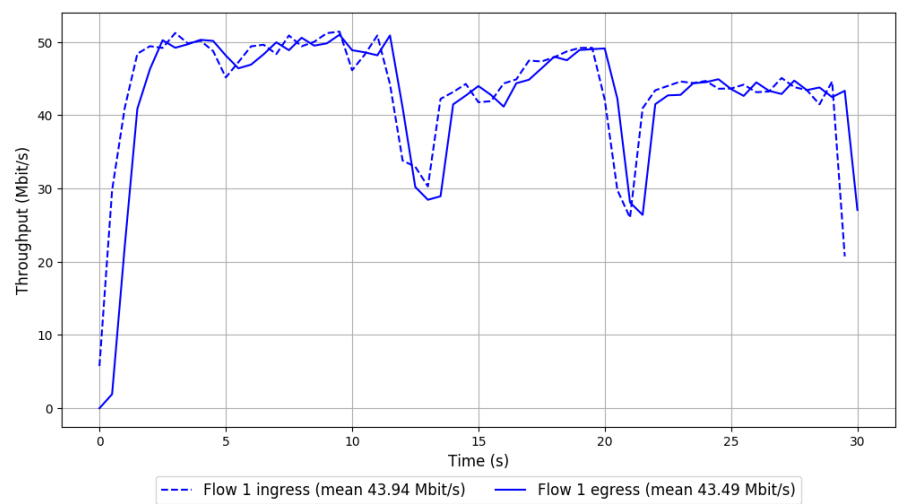


Run 6: Statistics of Indigo

Start at: 2018-06-18 12:06:29
End at: 2018-06-18 12:06:59
Local clock offset: -2.121 ms
Remote clock offset: -0.623 ms

Below is generated by plot.py at 2018-06-18 14:46:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 43.49 Mbit/s
95th percentile per-packet one-way delay: 85.443 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 43.49 Mbit/s
95th percentile per-packet one-way delay: 85.443 ms
Loss rate: 1.04%

Run 6: Report of Indigo — Data Link

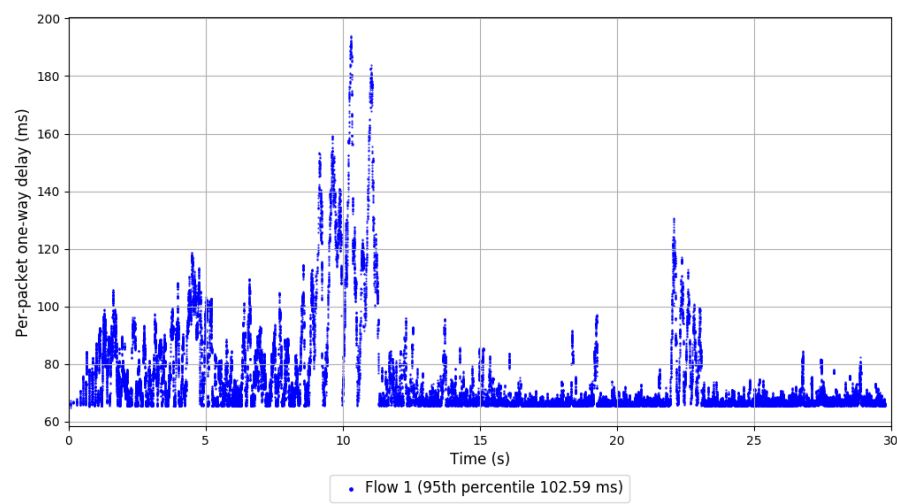
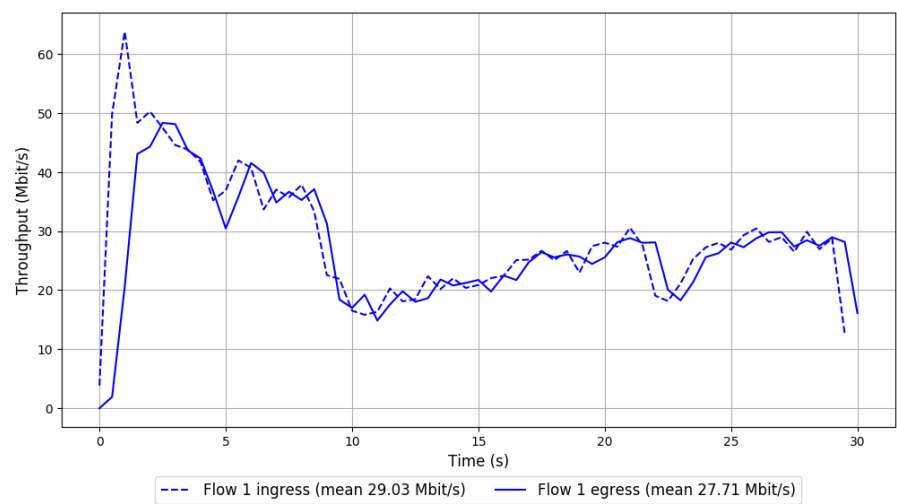


Run 7: Statistics of Indigo

Start at: 2018-06-18 12:43:01
End at: 2018-06-18 12:43:31
Local clock offset: 1.351 ms
Remote clock offset: -1.433 ms

Below is generated by plot.py at 2018-06-18 14:46:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 27.71 Mbit/s
95th percentile per-packet one-way delay: 102.592 ms
Loss rate: 4.51%
-- Flow 1:
Average throughput: 27.71 Mbit/s
95th percentile per-packet one-way delay: 102.592 ms
Loss rate: 4.51%

Run 7: Report of Indigo — Data Link

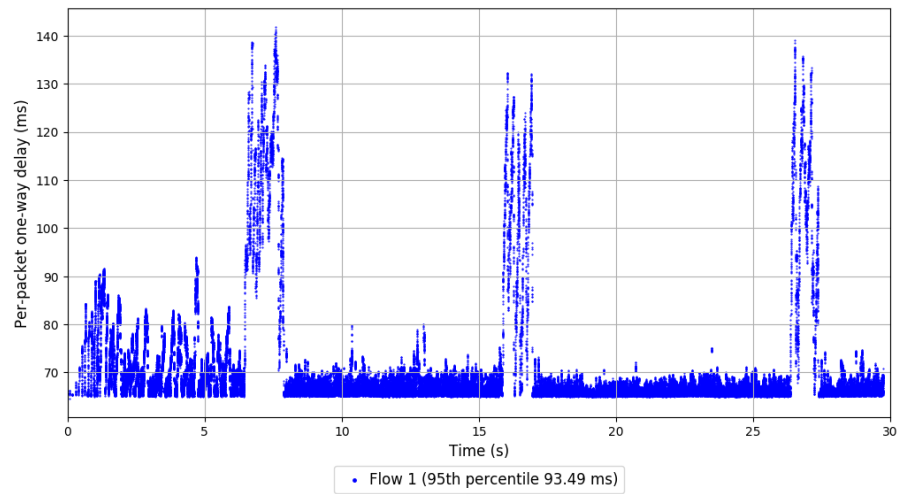
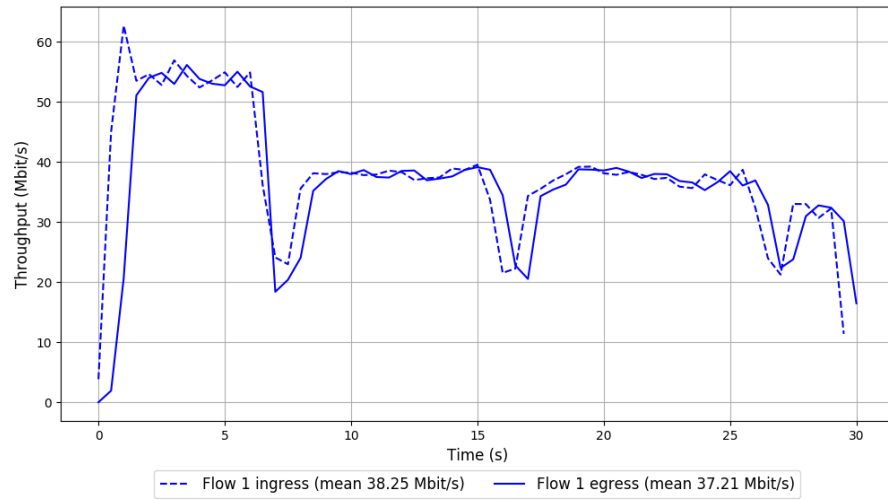


Run 8: Statistics of Indigo

Start at: 2018-06-18 13:18:39
End at: 2018-06-18 13:19:09
Local clock offset: 4.713 ms
Remote clock offset: -1.595 ms

Below is generated by plot.py at 2018-06-18 14:46:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 37.21 Mbit/s
95th percentile per-packet one-way delay: 93.492 ms
Loss rate: 2.70%
-- Flow 1:
Average throughput: 37.21 Mbit/s
95th percentile per-packet one-way delay: 93.492 ms
Loss rate: 2.70%

Run 8: Report of Indigo — Data Link

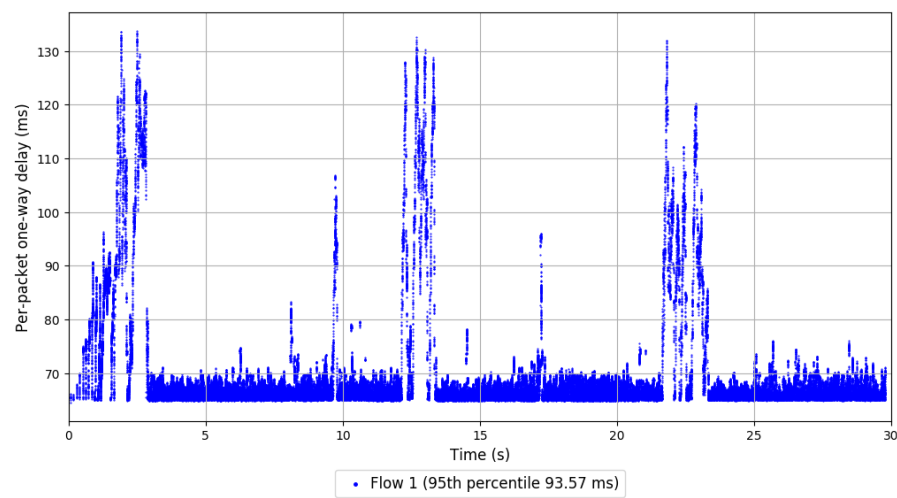
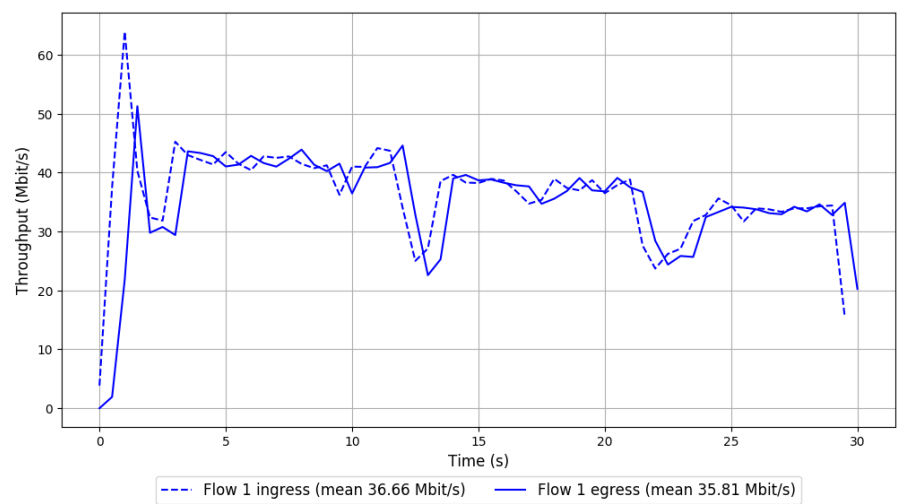


Run 9: Statistics of Indigo

Start at: 2018-06-18 13:54:44
End at: 2018-06-18 13:55:14
Local clock offset: -2.413 ms
Remote clock offset: -2.213 ms

Below is generated by plot.py at 2018-06-18 14:46:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 35.81 Mbit/s
95th percentile per-packet one-way delay: 93.568 ms
Loss rate: 2.32%
-- Flow 1:
Average throughput: 35.81 Mbit/s
95th percentile per-packet one-way delay: 93.568 ms
Loss rate: 2.32%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-06-18 14:31:26

End at: 2018-06-18 14:31:56

Local clock offset: 5.557 ms

Remote clock offset: 0.068 ms

Below is generated by plot.py at 2018-06-18 14:47:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.66 Mbit/s

95th percentile per-packet one-way delay: 85.568 ms

Loss rate: 1.63%

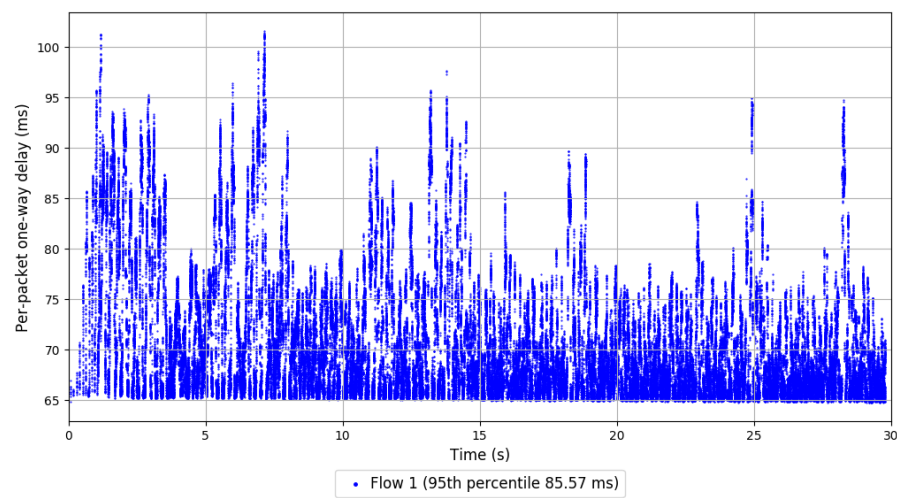
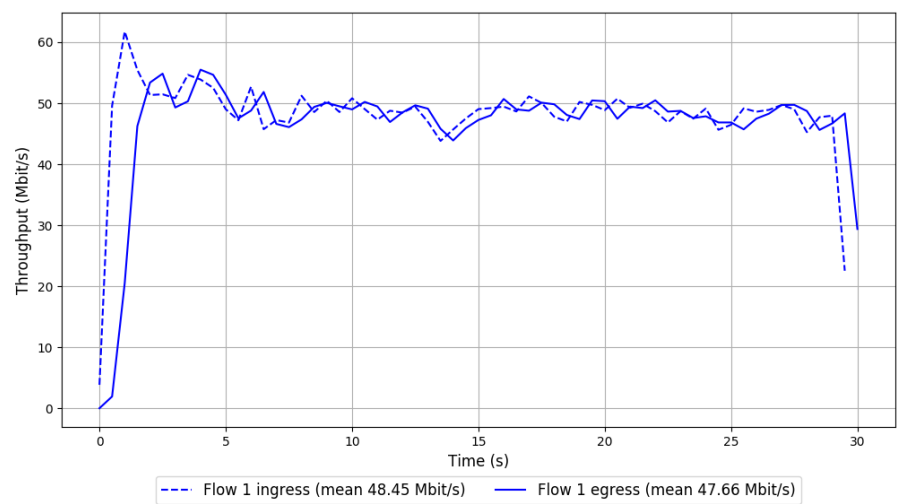
-- Flow 1:

Average throughput: 47.66 Mbit/s

95th percentile per-packet one-way delay: 85.568 ms

Loss rate: 1.63%

Run 10: Report of Indigo — Data Link

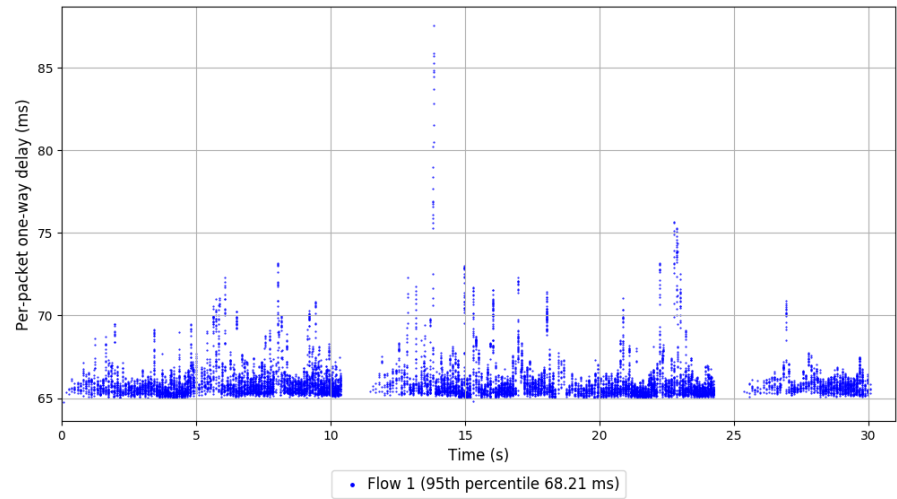
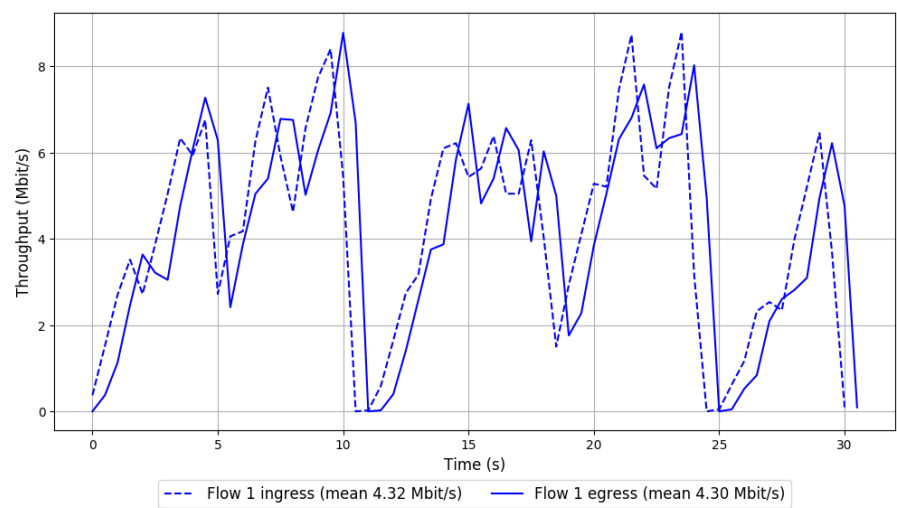


```
Run 1: Statistics of LEDBAT

Start at: 2018-06-18 09:05:50
End at: 2018-06-18 09:06:20
Local clock offset: 2.125 ms
Remote clock offset: -1.372 ms

# Below is generated by plot.py at 2018-06-18 14:47:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.30 Mbit/s
95th percentile per-packet one-way delay: 68.210 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 4.30 Mbit/s
95th percentile per-packet one-way delay: 68.210 ms
Loss rate: 0.36%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-06-18 09:40:53

End at: 2018-06-18 09:41:23

Local clock offset: 1.231 ms

Remote clock offset: 0.674 ms

Below is generated by plot.py at 2018-06-18 14:47:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.69 Mbit/s

95th percentile per-packet one-way delay: 67.597 ms

Loss rate: 0.44%

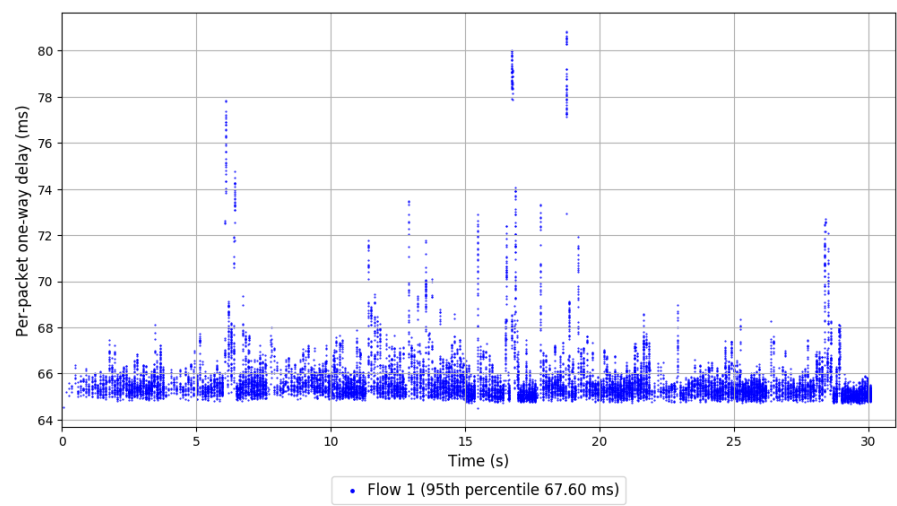
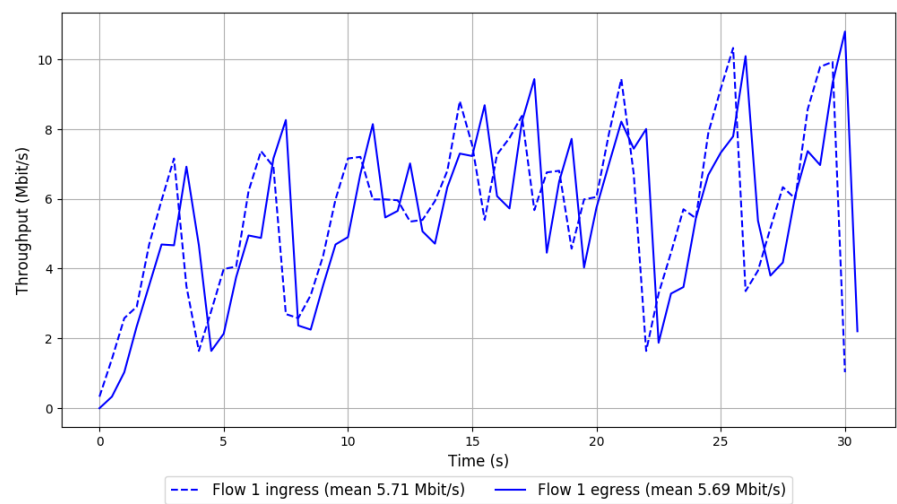
-- Flow 1:

Average throughput: 5.69 Mbit/s

95th percentile per-packet one-way delay: 67.597 ms

Loss rate: 0.44%

Run 2: Report of LEDBAT — Data Link

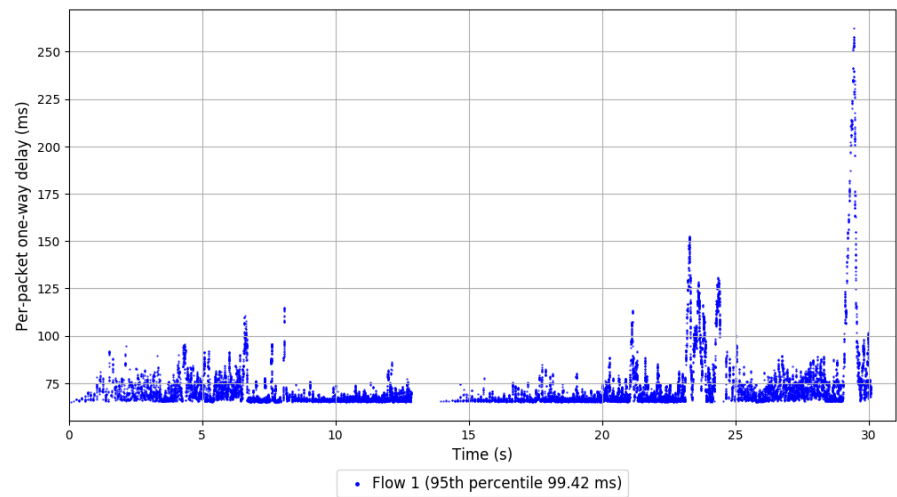
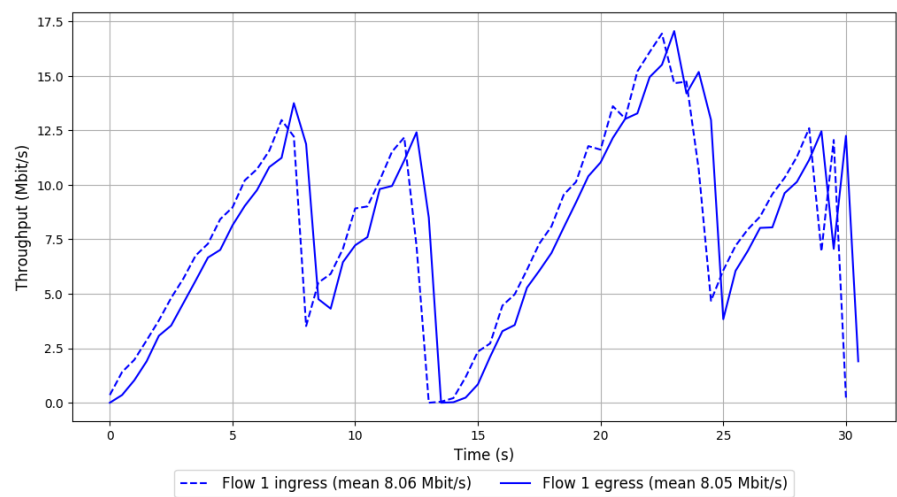


Run 3: Statistics of LEDBAT

Start at: 2018-06-18 10:17:05
End at: 2018-06-18 10:17:35
Local clock offset: -4.447 ms
Remote clock offset: -1.629 ms

Below is generated by plot.py at 2018-06-18 14:47:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 8.05 Mbit/s
95th percentile per-packet one-way delay: 99.423 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 8.05 Mbit/s
95th percentile per-packet one-way delay: 99.423 ms
Loss rate: 0.15%

Run 3: Report of LEDBAT — Data Link

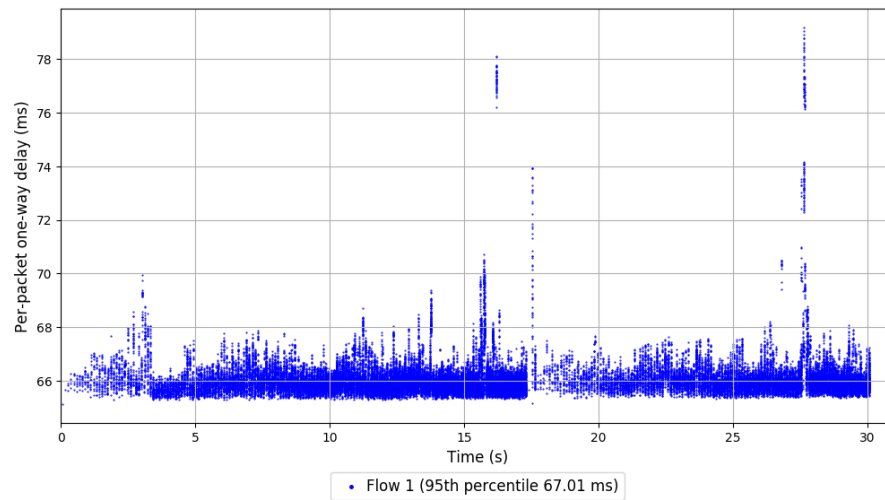
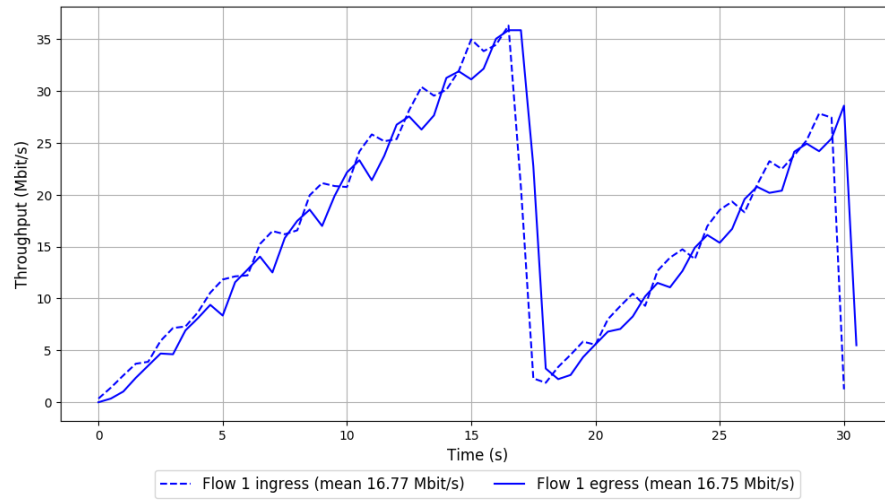


Run 4: Statistics of LEDBAT

Start at: 2018-06-18 10:49:24
End at: 2018-06-18 10:49:54
Local clock offset: 2.242 ms
Remote clock offset: -3.427 ms

Below is generated by plot.py at 2018-06-18 14:47:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 16.75 Mbit/s
95th percentile per-packet one-way delay: 67.009 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 16.75 Mbit/s
95th percentile per-packet one-way delay: 67.009 ms
Loss rate: 0.07%

Run 4: Report of LEDBAT — Data Link

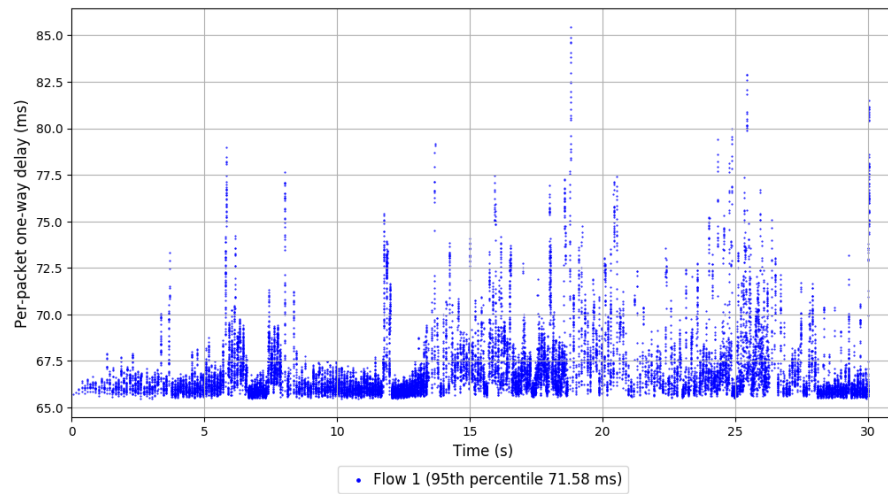
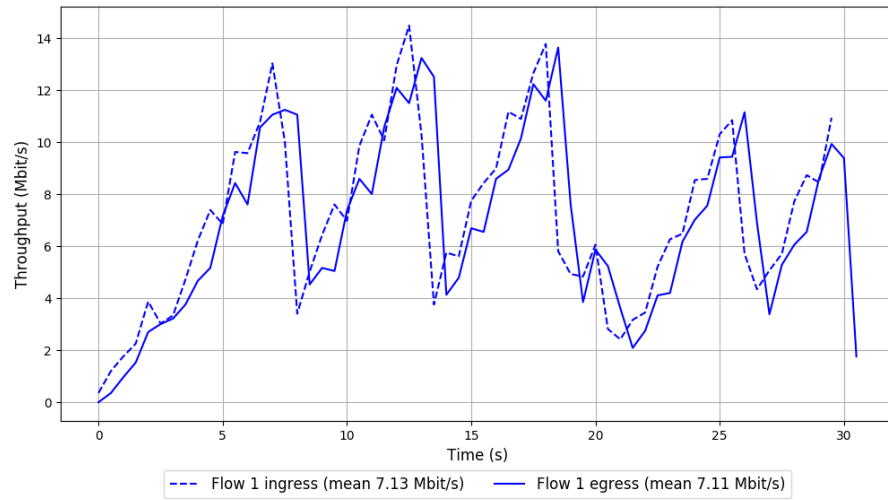


Run 5: Statistics of LEDBAT

Start at: 2018-06-18 11:26:50
End at: 2018-06-18 11:27:20
Local clock offset: 7.377 ms
Remote clock offset: -0.979 ms

Below is generated by plot.py at 2018-06-18 14:47:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.11 Mbit/s
95th percentile per-packet one-way delay: 71.581 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 7.11 Mbit/s
95th percentile per-packet one-way delay: 71.581 ms
Loss rate: 0.23%

Run 5: Report of LEDBAT — Data Link

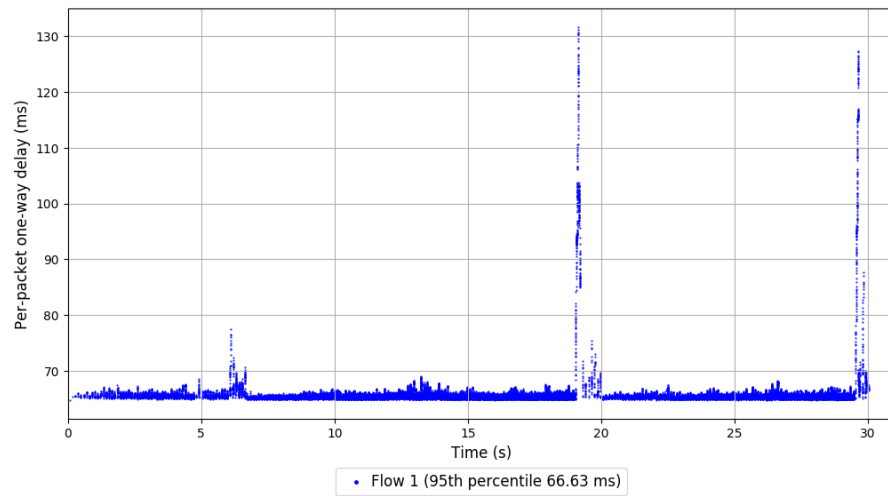
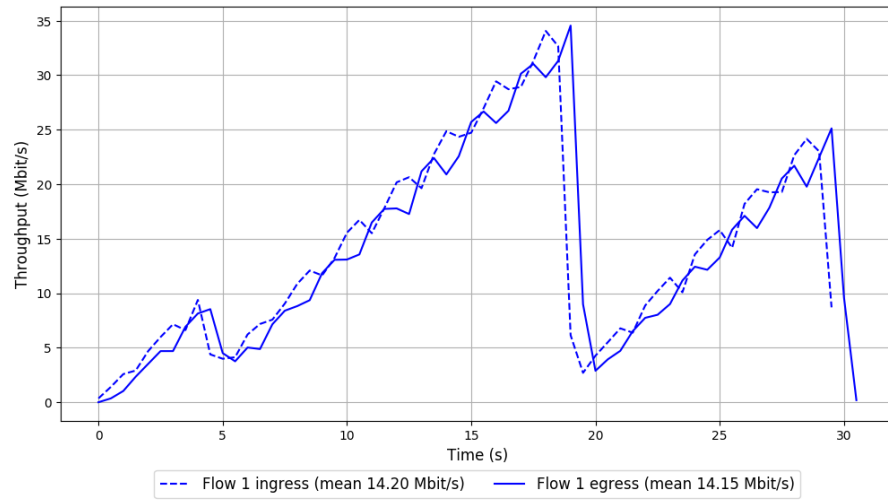


Run 6: Statistics of LEDBAT

Start at: 2018-06-18 12:01:34
End at: 2018-06-18 12:02:04
Local clock offset: -1.113 ms
Remote clock offset: -0.471 ms

Below is generated by plot.py at 2018-06-18 14:47:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 14.15 Mbit/s
95th percentile per-packet one-way delay: 66.633 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 14.15 Mbit/s
95th percentile per-packet one-way delay: 66.633 ms
Loss rate: 0.37%

Run 6: Report of LEDBAT — Data Link

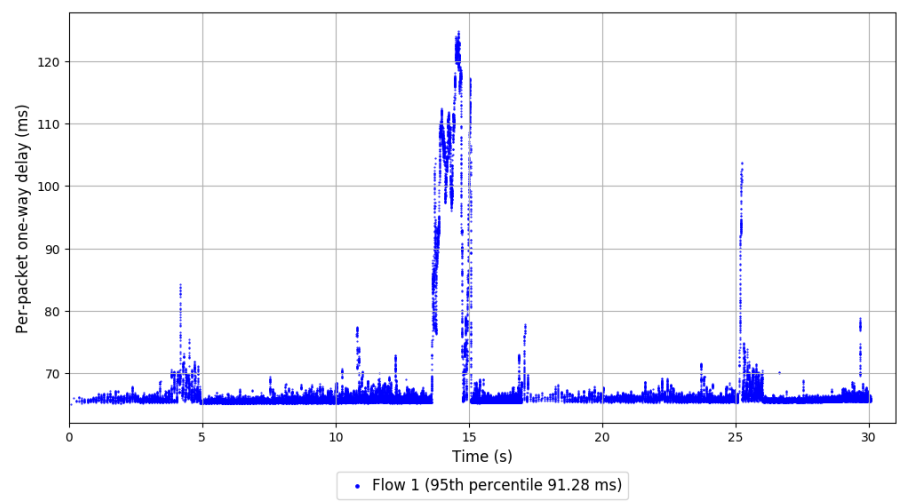
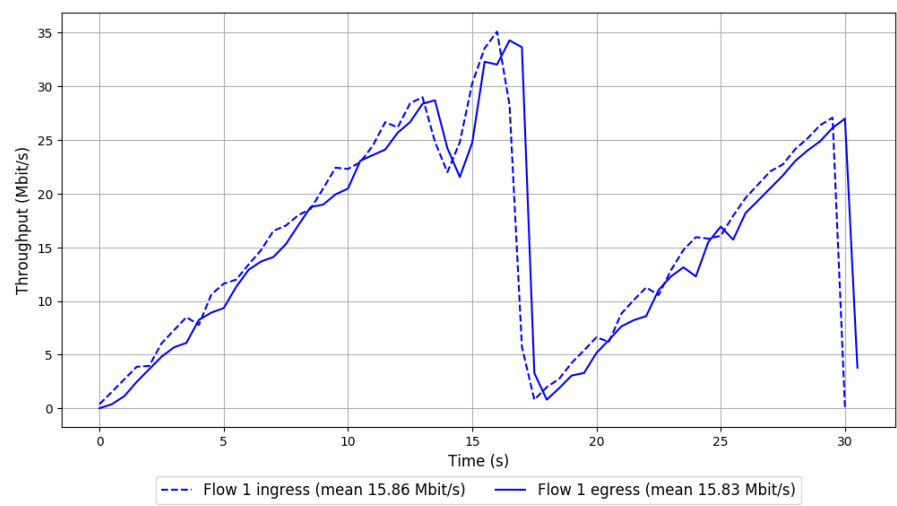


Run 7: Statistics of LEDBAT

Start at: 2018-06-18 12:37:36
End at: 2018-06-18 12:38:06
Local clock offset: -0.72 ms
Remote clock offset: -1.073 ms

Below is generated by plot.py at 2018-06-18 14:47:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 15.83 Mbit/s
95th percentile per-packet one-way delay: 91.278 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 15.83 Mbit/s
95th percentile per-packet one-way delay: 91.278 ms
Loss rate: 0.24%

Run 7: Report of LEDBAT — Data Link

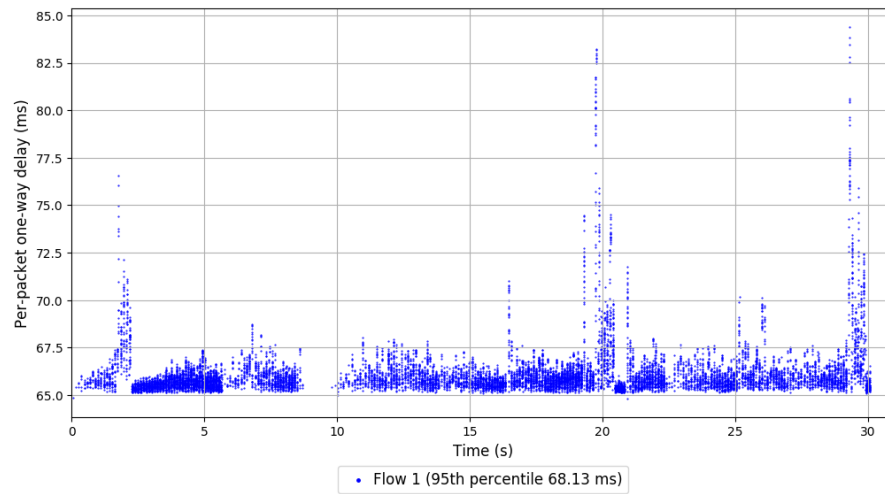
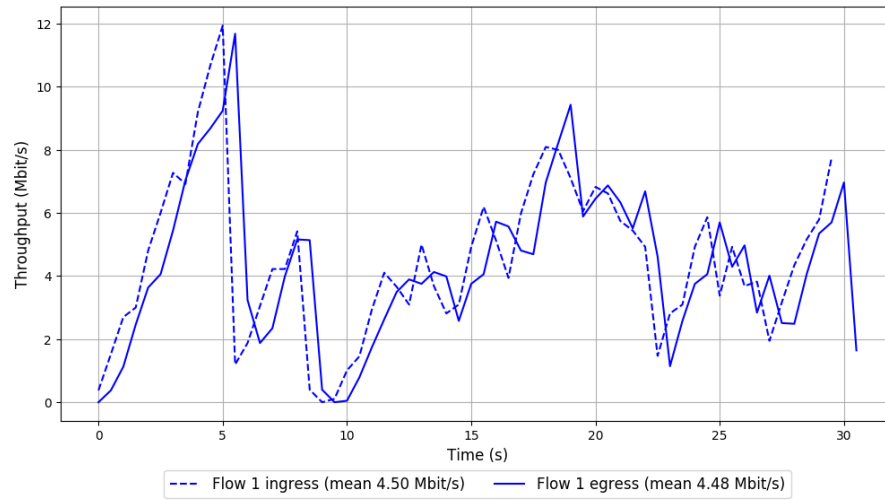


Run 8: Statistics of LEDBAT

Start at: 2018-06-18 13:14:26
End at: 2018-06-18 13:14:56
Local clock offset: 4.523 ms
Remote clock offset: -1.744 ms

Below is generated by plot.py at 2018-06-18 14:47:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.48 Mbit/s
95th percentile per-packet one-way delay: 68.134 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 4.48 Mbit/s
95th percentile per-packet one-way delay: 68.134 ms
Loss rate: 0.50%

Run 8: Report of LEDBAT — Data Link

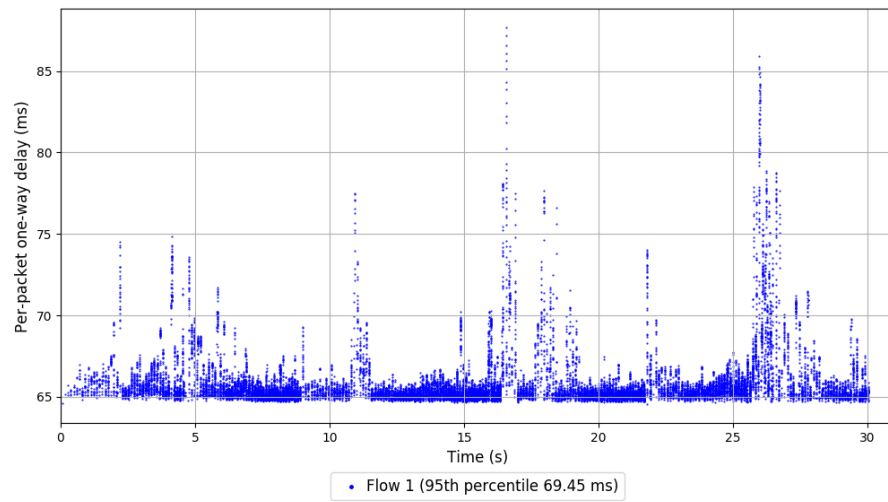
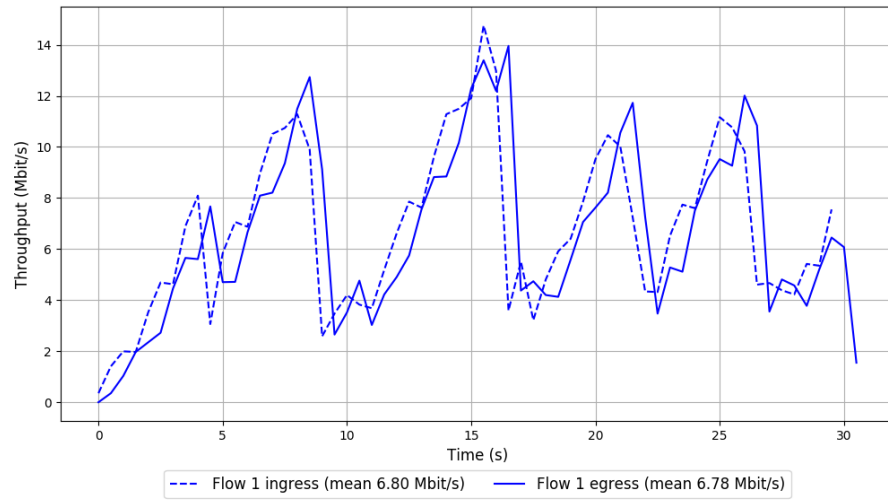


Run 9: Statistics of LEDBAT

Start at: 2018-06-18 13:50:10
End at: 2018-06-18 13:50:40
Local clock offset: -1.672 ms
Remote clock offset: -2.004 ms

Below is generated by plot.py at 2018-06-18 14:47:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.78 Mbit/s
95th percentile per-packet one-way delay: 69.455 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 6.78 Mbit/s
95th percentile per-packet one-way delay: 69.455 ms
Loss rate: 0.30%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-06-18 14:26:57

End at: 2018-06-18 14:27:27

Local clock offset: 5.252 ms

Remote clock offset: -0.43 ms

Below is generated by plot.py at 2018-06-18 14:47:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.17 Mbit/s

95th percentile per-packet one-way delay: 68.586 ms

Loss rate: 0.12%

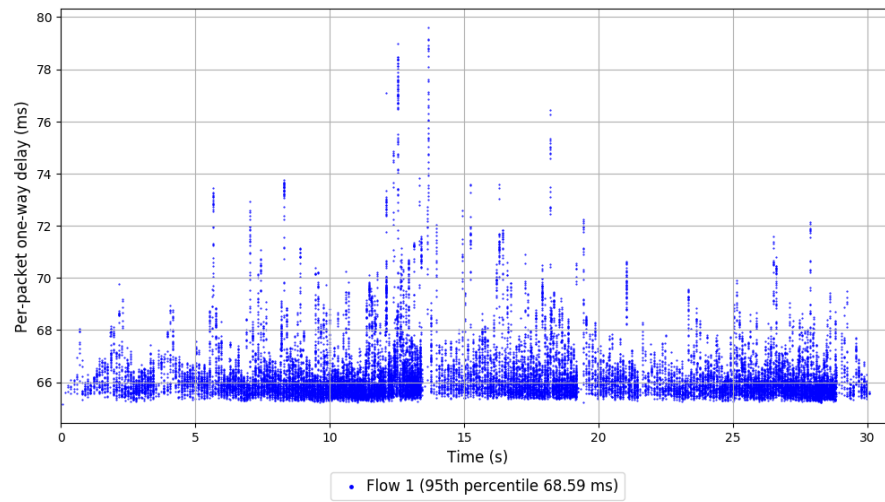
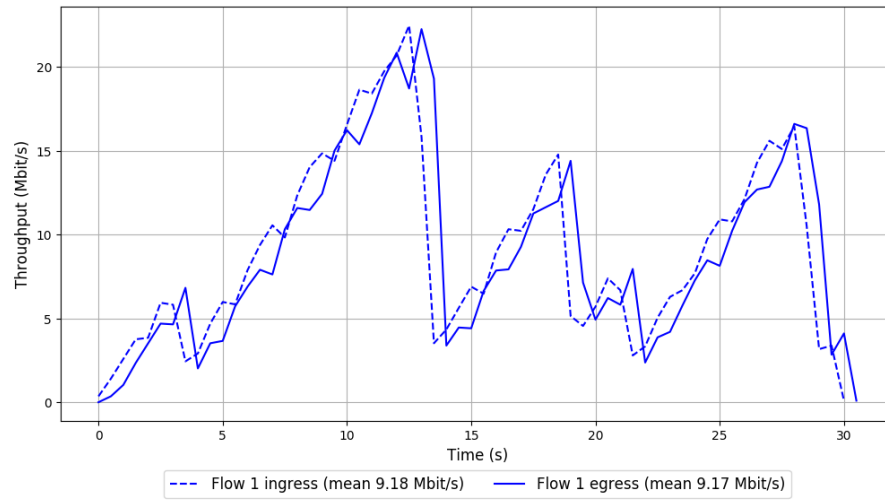
-- Flow 1:

Average throughput: 9.17 Mbit/s

95th percentile per-packet one-way delay: 68.586 ms

Loss rate: 0.12%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-06-18 09:01:06

End at: 2018-06-18 09:01:36

Local clock offset: 1.577 ms

Remote clock offset: -1.303 ms

Below is generated by plot.py at 2018-06-18 14:47:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.81 Mbit/s

95th percentile per-packet one-way delay: 90.107 ms

Loss rate: 2.78%

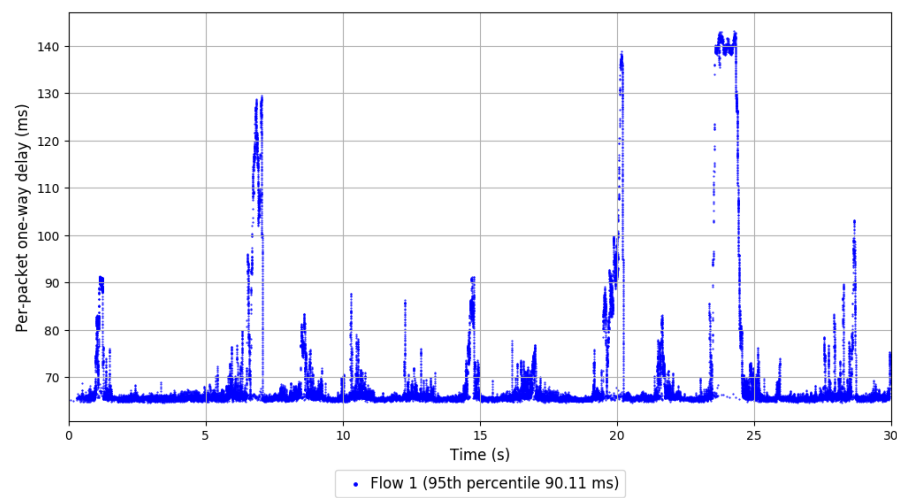
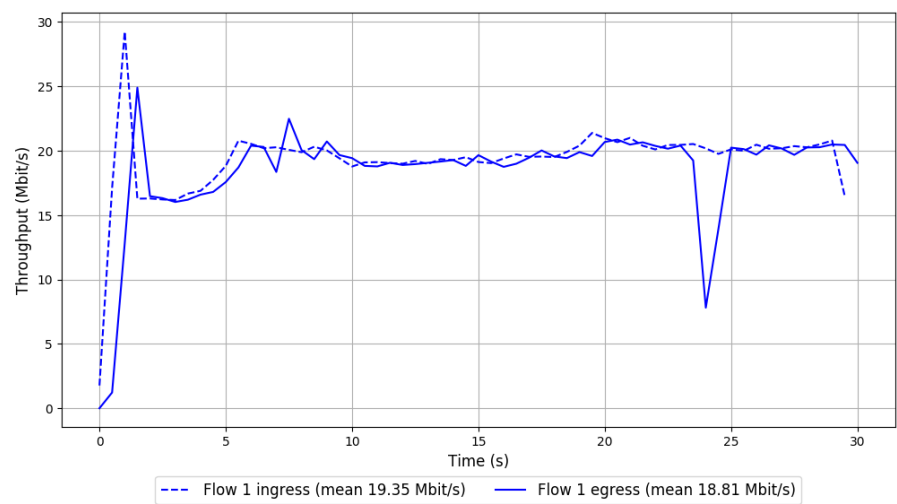
-- Flow 1:

Average throughput: 18.81 Mbit/s

95th percentile per-packet one-way delay: 90.107 ms

Loss rate: 2.78%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-06-18 09:35:43

End at: 2018-06-18 09:36:13

Local clock offset: 1.726 ms

Remote clock offset: 0.419 ms

Below is generated by plot.py at 2018-06-18 14:47:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.18 Mbit/s

95th percentile per-packet one-way delay: 65.558 ms

Loss rate: 0.04%

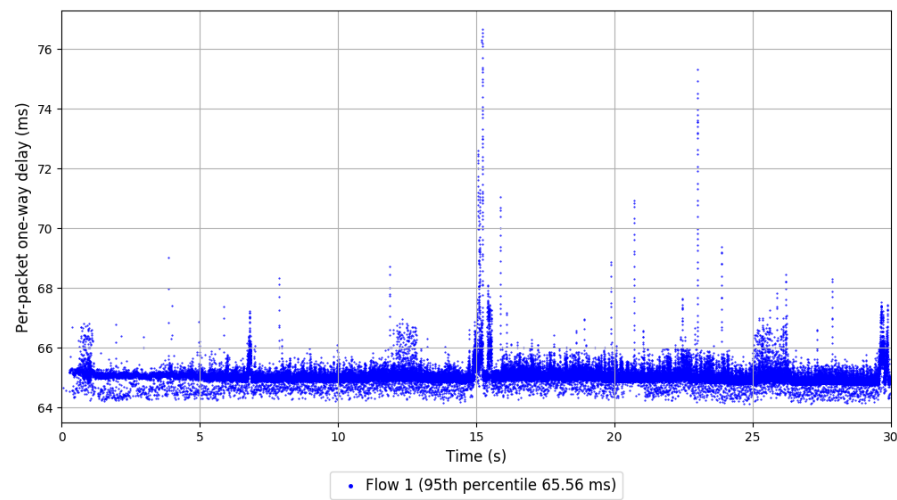
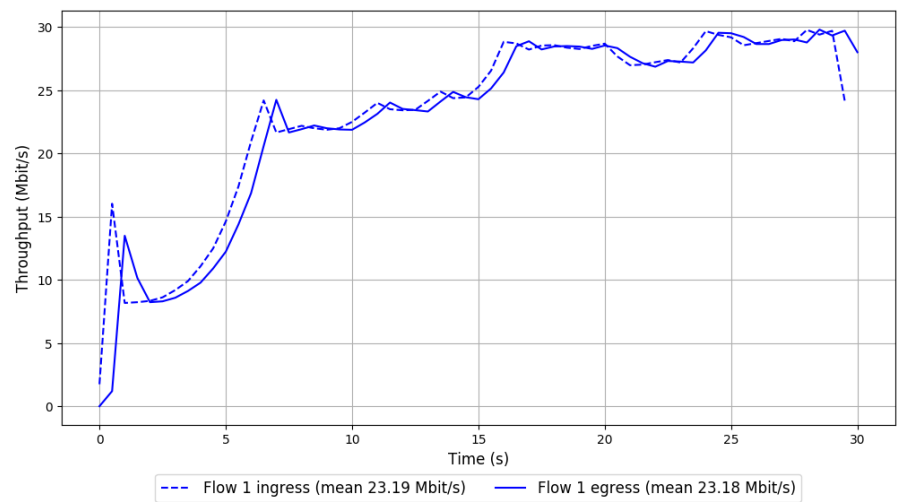
-- Flow 1:

Average throughput: 23.18 Mbit/s

95th percentile per-packet one-way delay: 65.558 ms

Loss rate: 0.04%

Run 2: Report of PCC-Allegro — Data Link

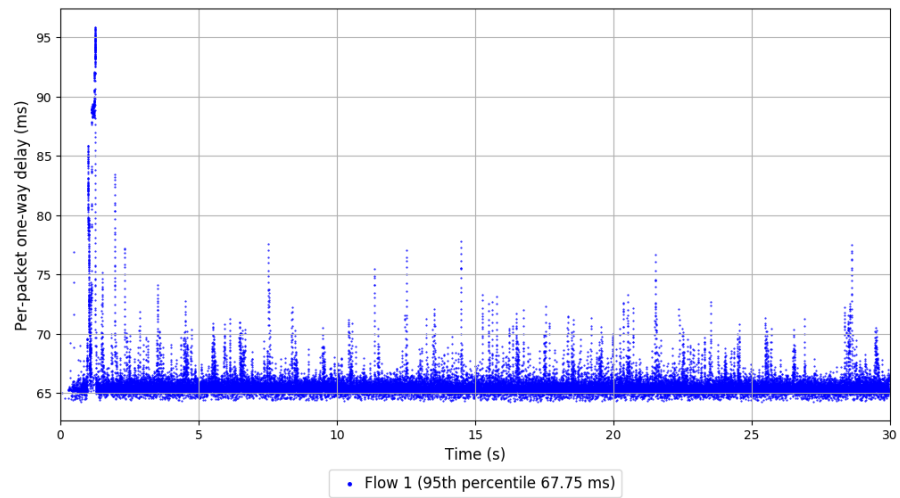
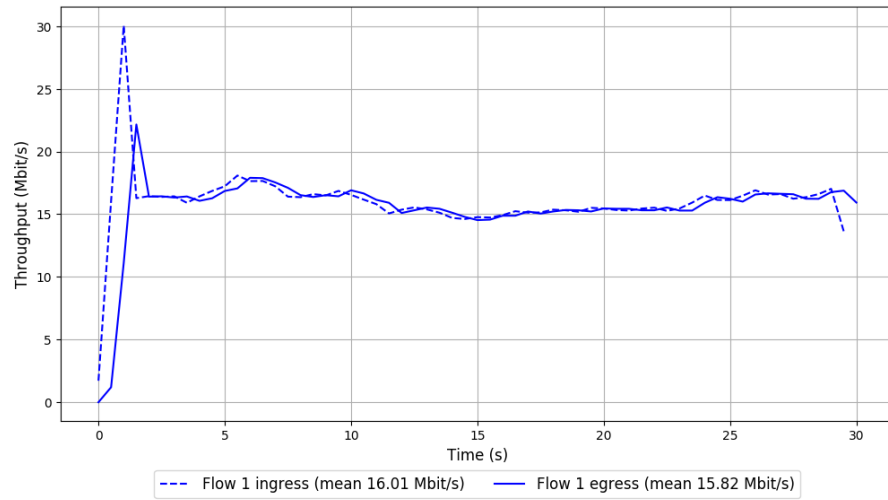


Run 3: Statistics of PCC-Allegro

Start at: 2018-06-18 10:12:11
End at: 2018-06-18 10:12:41
Local clock offset: -3.318 ms
Remote clock offset: -1.313 ms

Below is generated by plot.py at 2018-06-18 14:47:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 15.82 Mbit/s
95th percentile per-packet one-way delay: 67.747 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 15.82 Mbit/s
95th percentile per-packet one-way delay: 67.747 ms
Loss rate: 1.24%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-06-18 10:43:07

End at: 2018-06-18 10:43:37

Local clock offset: 0.581 ms

Remote clock offset: -3.237 ms

Below is generated by plot.py at 2018-06-18 14:47:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.09 Mbit/s

95th percentile per-packet one-way delay: 108.134 ms

Loss rate: 10.42%

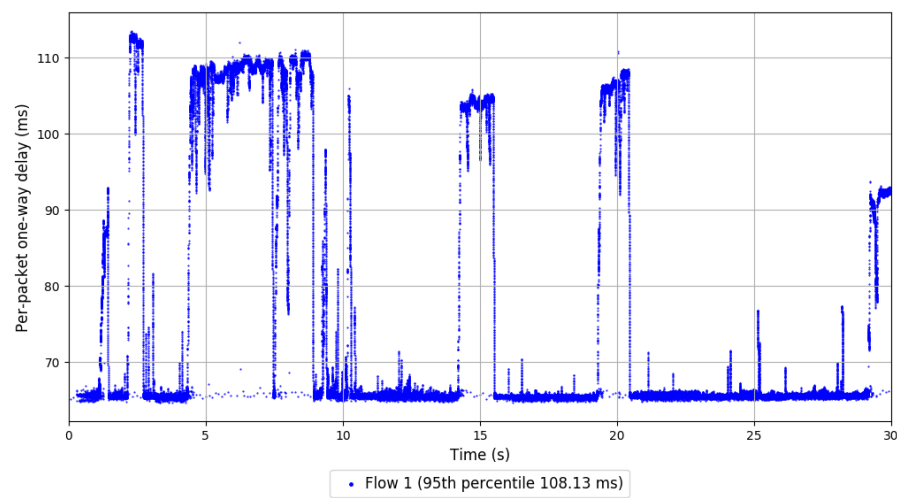
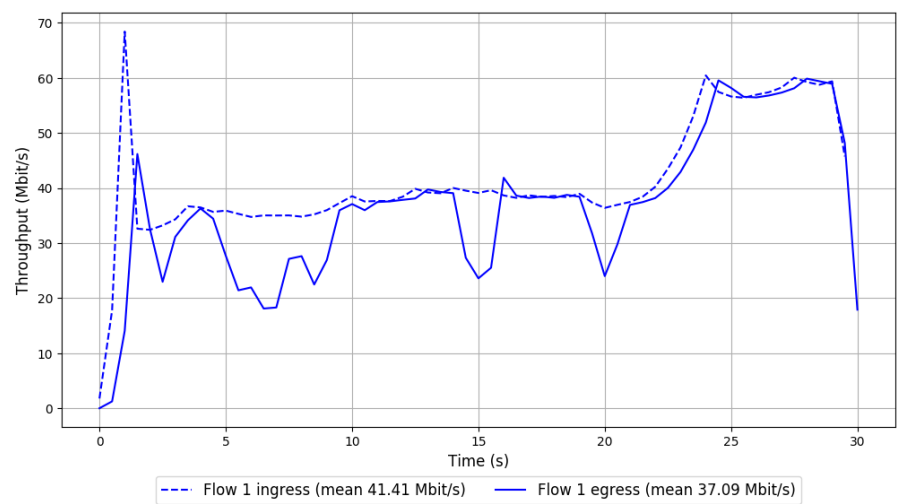
-- Flow 1:

Average throughput: 37.09 Mbit/s

95th percentile per-packet one-way delay: 108.134 ms

Loss rate: 10.42%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-06-18 11:20:46

End at: 2018-06-18 11:21:16

Local clock offset: 6.887 ms

Remote clock offset: -1.234 ms

Below is generated by plot.py at 2018-06-18 14:47:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.02 Mbit/s

95th percentile per-packet one-way delay: 80.090 ms

Loss rate: 2.13%

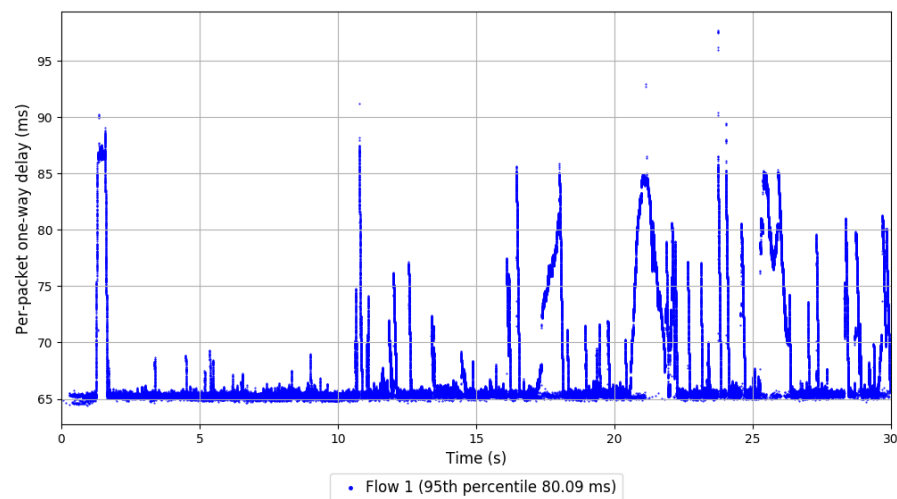
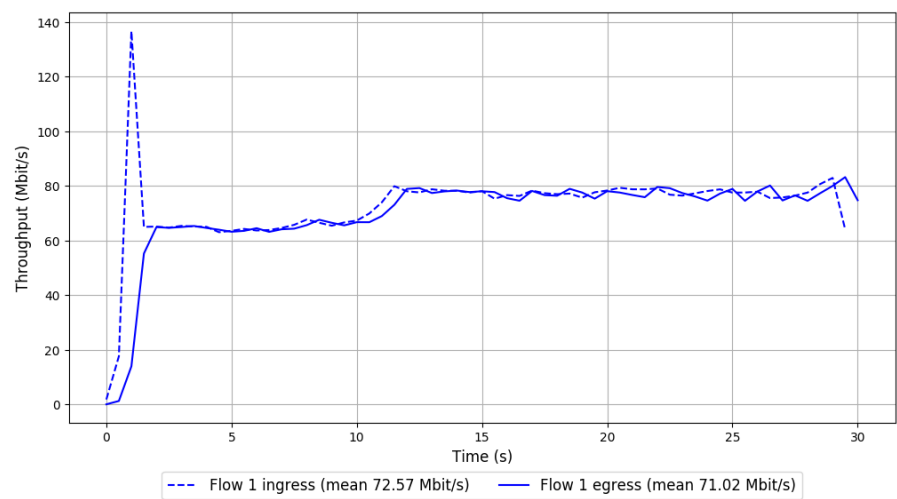
-- Flow 1:

Average throughput: 71.02 Mbit/s

95th percentile per-packet one-way delay: 80.090 ms

Loss rate: 2.13%

Run 5: Report of PCC-Allegro — Data Link

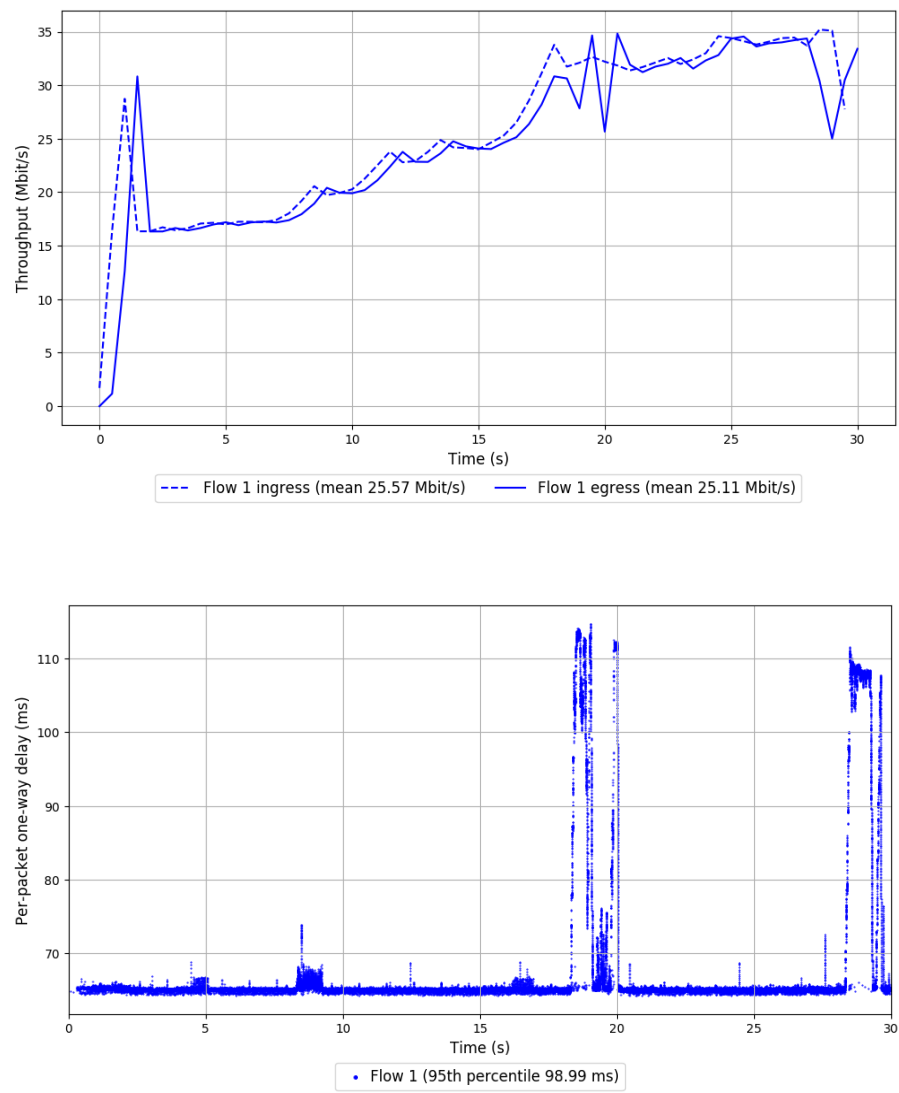


Run 6: Statistics of PCC-Allegro

Start at: 2018-06-18 11:56:11
End at: 2018-06-18 11:56:41
Local clock offset: -0.678 ms
Remote clock offset: -0.529 ms

Below is generated by plot.py at 2018-06-18 14:47:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 25.11 Mbit/s
95th percentile per-packet one-way delay: 98.990 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 25.11 Mbit/s
95th percentile per-packet one-way delay: 98.990 ms
Loss rate: 1.79%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-06-18 12:32:03

End at: 2018-06-18 12:32:33

Local clock offset: -4.79 ms

Remote clock offset: -0.625 ms

Below is generated by plot.py at 2018-06-18 14:47:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.64 Mbit/s

95th percentile per-packet one-way delay: 66.947 ms

Loss rate: 0.04%

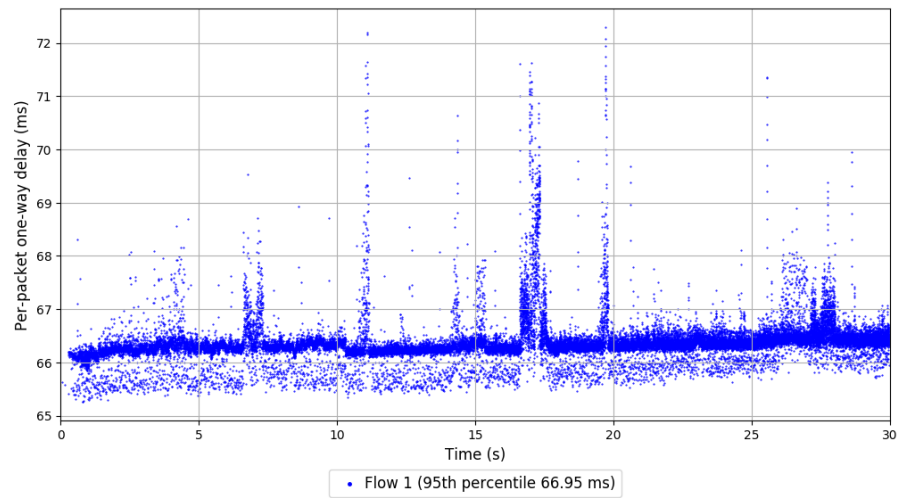
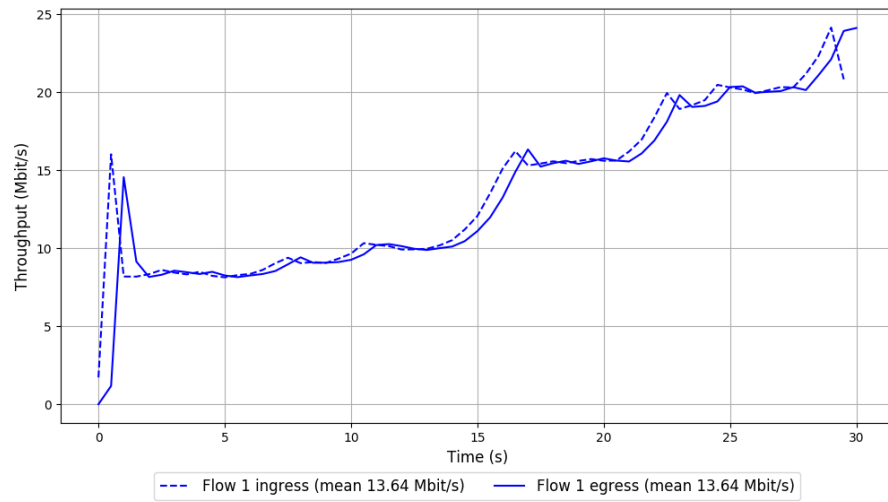
-- Flow 1:

Average throughput: 13.64 Mbit/s

95th percentile per-packet one-way delay: 66.947 ms

Loss rate: 0.04%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-06-18 13:08:06

End at: 2018-06-18 13:08:36

Local clock offset: 4.461 ms

Remote clock offset: -1.938 ms

Below is generated by plot.py at 2018-06-18 14:47:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.83 Mbit/s

95th percentile per-packet one-way delay: 87.810 ms

Loss rate: 13.76%

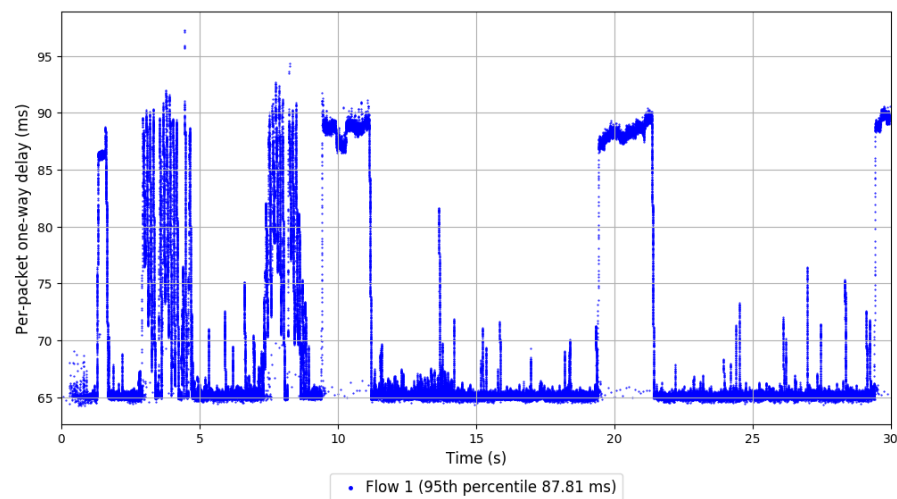
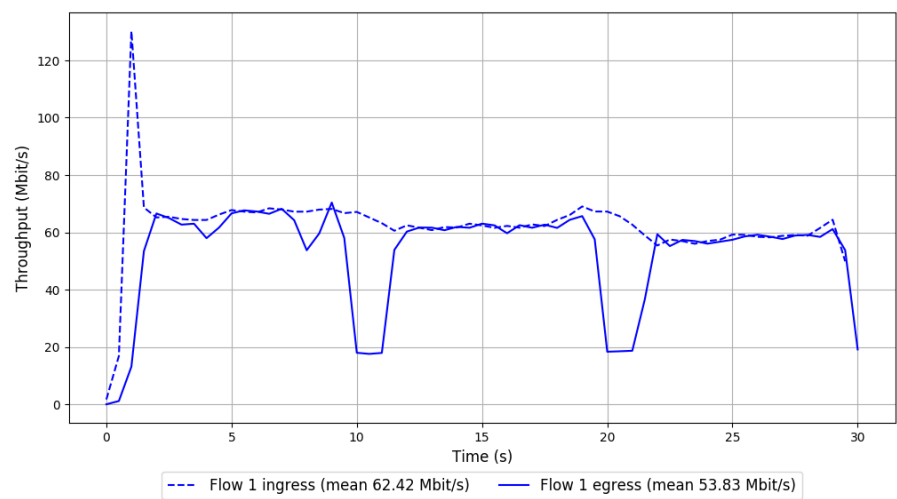
-- Flow 1:

Average throughput: 53.83 Mbit/s

95th percentile per-packet one-way delay: 87.810 ms

Loss rate: 13.76%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-06-18 13:44:06

End at: 2018-06-18 13:44:36

Local clock offset: -0.543 ms

Remote clock offset: -1.732 ms

Below is generated by plot.py at 2018-06-18 14:47:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.48 Mbit/s

95th percentile per-packet one-way delay: 80.571 ms

Loss rate: 3.00%

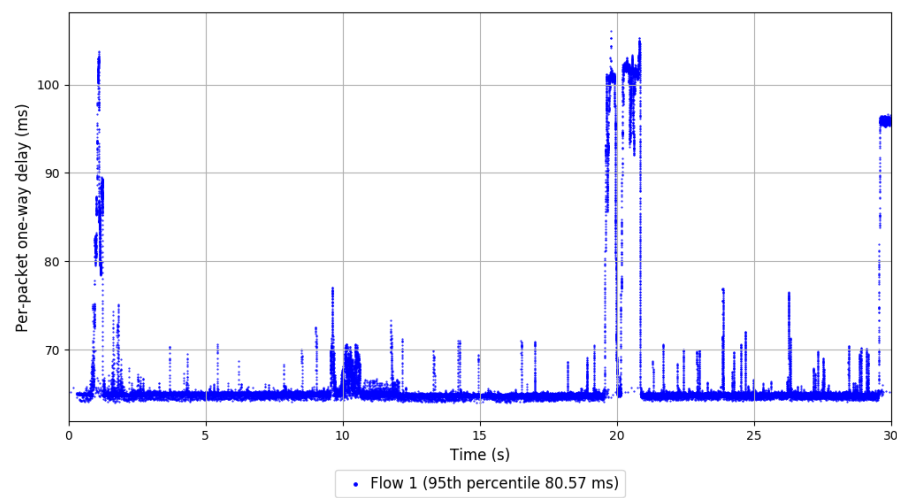
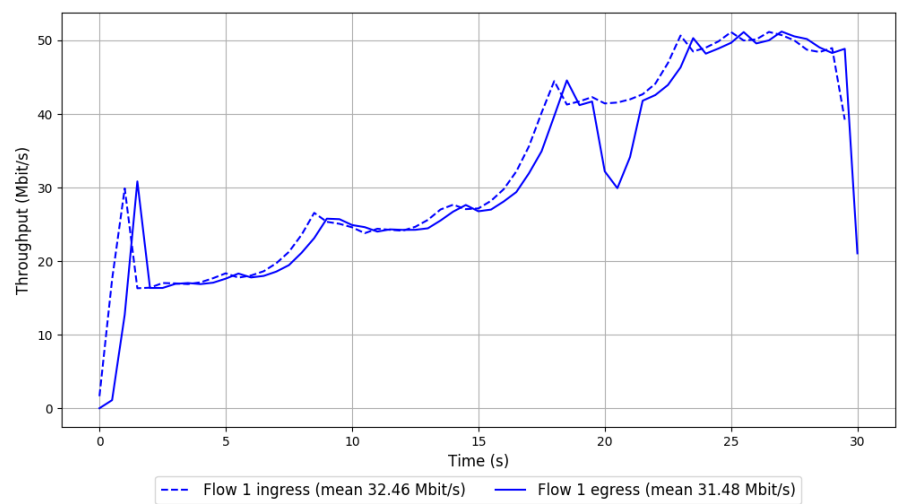
-- Flow 1:

Average throughput: 31.48 Mbit/s

95th percentile per-packet one-way delay: 80.571 ms

Loss rate: 3.00%

Run 9: Report of PCC-Allegro — Data Link

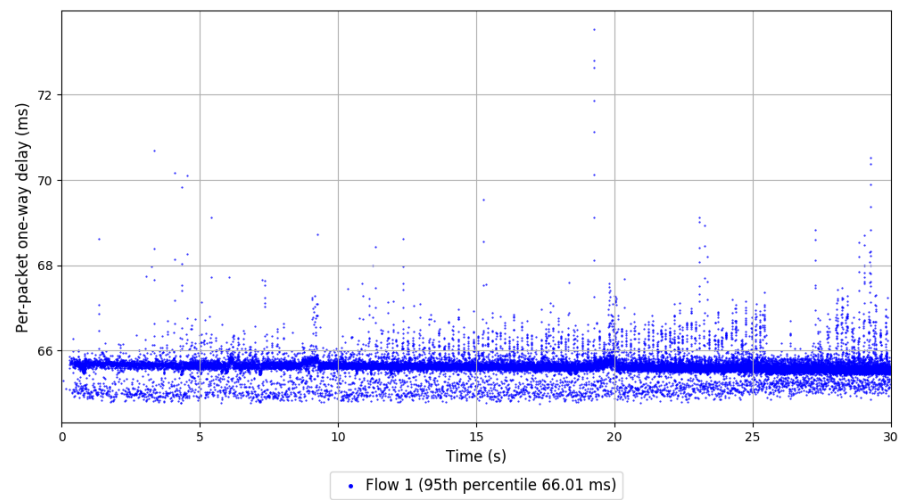
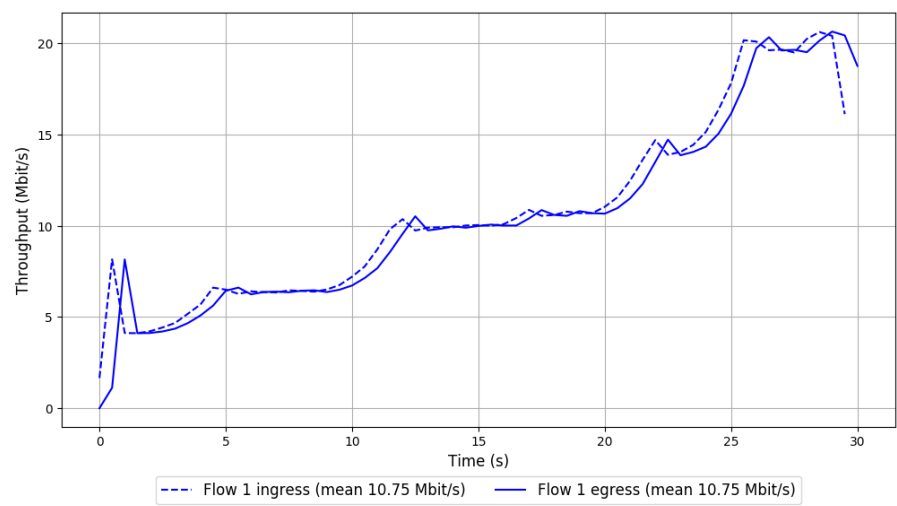


Run 10: Statistics of PCC-Allegro

Start at: 2018-06-18 14:21:21
End at: 2018-06-18 14:21:51
Local clock offset: 4.515 ms
Remote clock offset: -1.126 ms

Below is generated by plot.py at 2018-06-18 14:47:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 10.75 Mbit/s
95th percentile per-packet one-way delay: 66.006 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.75 Mbit/s
95th percentile per-packet one-way delay: 66.006 ms
Loss rate: 0.00%

Run 10: Report of PCC-Allegro — Data Link

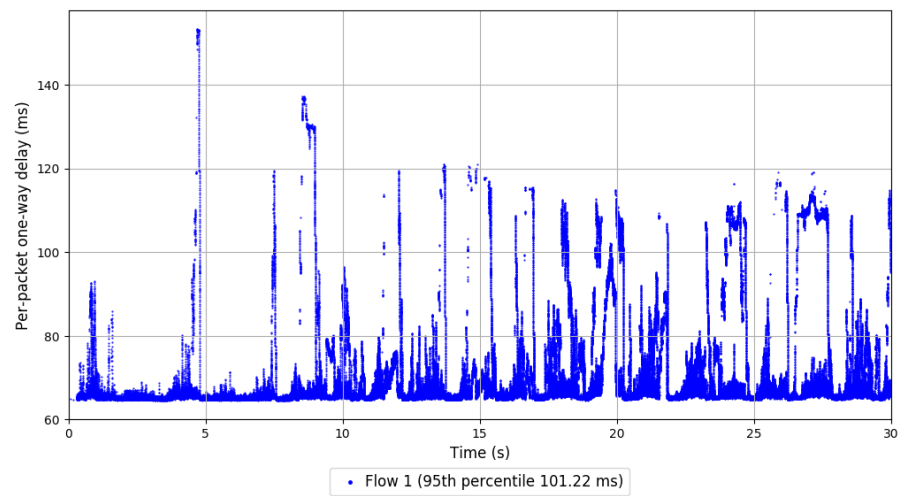
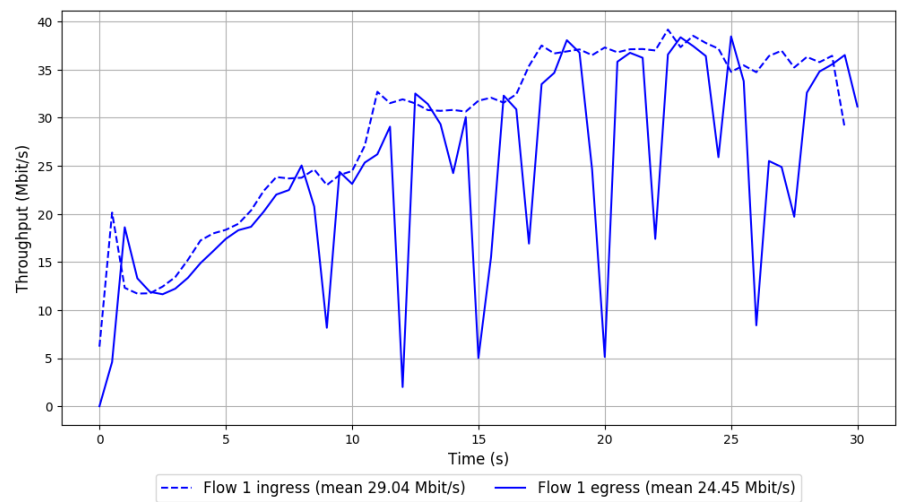


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-18 08:56:04
End at: 2018-06-18 08:56:34
Local clock offset: 1.968 ms
Remote clock offset: -1.376 ms

# Below is generated by plot.py at 2018-06-18 14:47:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.45 Mbit/s
95th percentile per-packet one-way delay: 101.223 ms
Loss rate: 15.82%
-- Flow 1:
Average throughput: 24.45 Mbit/s
95th percentile per-packet one-way delay: 101.223 ms
Loss rate: 15.82%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-06-18 09:29:40

End at: 2018-06-18 09:30:10

Local clock offset: 2.376 ms

Remote clock offset: 0.278 ms

Below is generated by plot.py at 2018-06-18 14:48:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.53 Mbit/s

95th percentile per-packet one-way delay: 83.800 ms

Loss rate: 4.01%

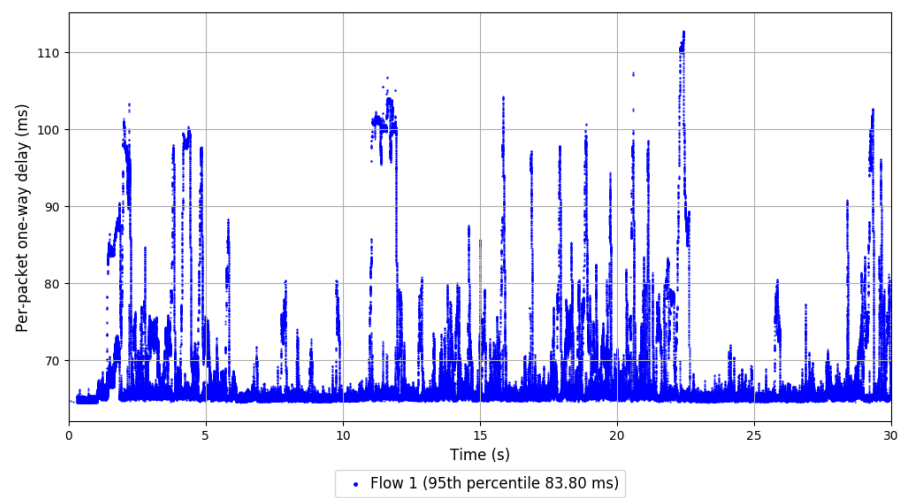
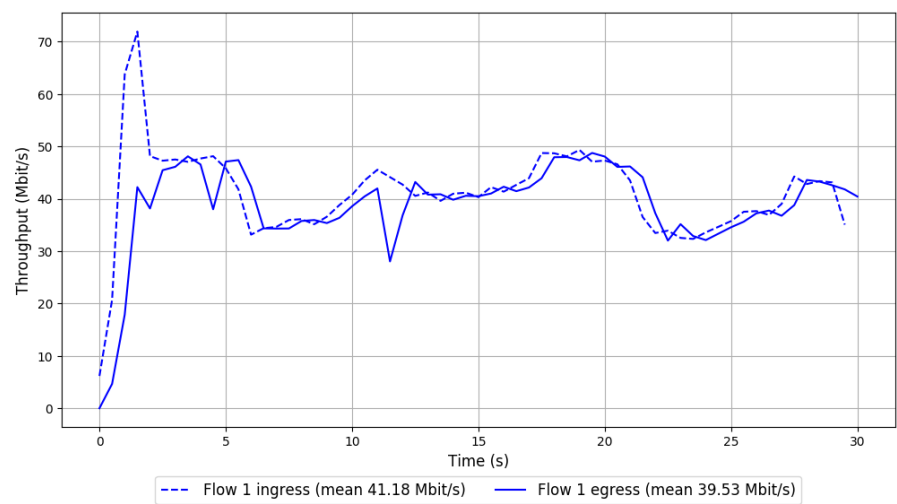
-- Flow 1:

Average throughput: 39.53 Mbit/s

95th percentile per-packet one-way delay: 83.800 ms

Loss rate: 4.01%

Run 2: Report of PCC-Expr — Data Link

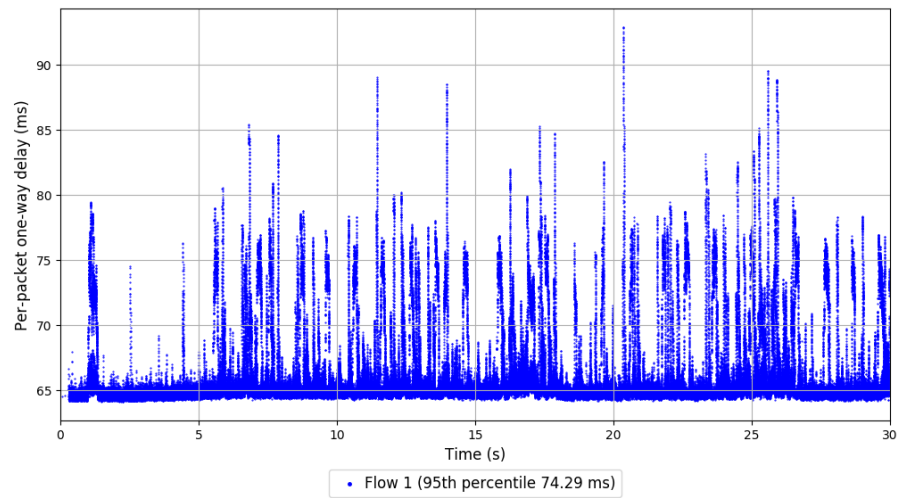
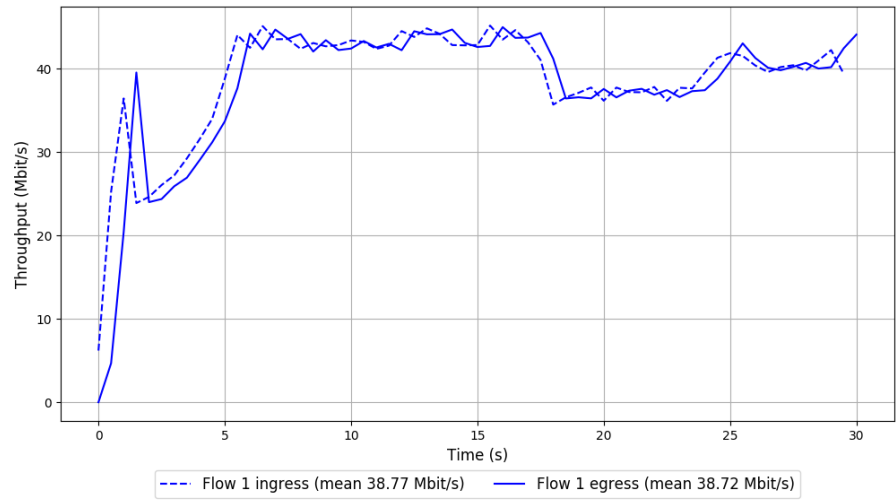


Run 3: Statistics of PCC-Expr

Start at: 2018-06-18 10:05:55
End at: 2018-06-18 10:06:25
Local clock offset: -1.679 ms
Remote clock offset: -1.139 ms

Below is generated by plot.py at 2018-06-18 14:48:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 38.72 Mbit/s
95th percentile per-packet one-way delay: 74.292 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 38.72 Mbit/s
95th percentile per-packet one-way delay: 74.292 ms
Loss rate: 0.12%

Run 3: Report of PCC-Expr — Data Link

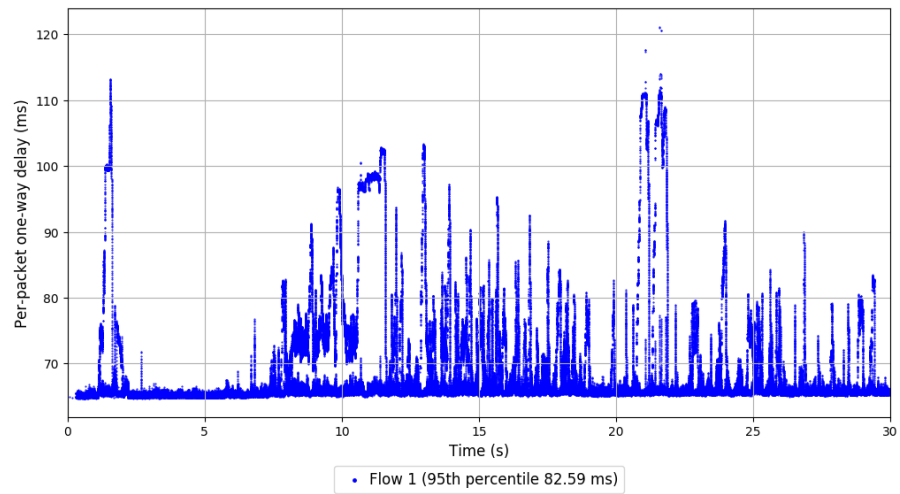
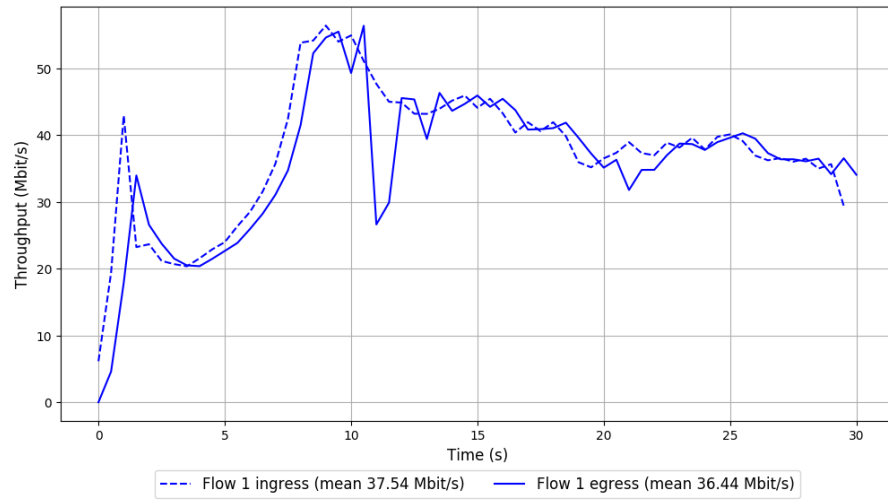


Run 4: Statistics of PCC-Expr

Start at: 2018-06-18 10:37:17
End at: 2018-06-18 10:37:47
Local clock offset: -1.767 ms
Remote clock offset: -3.042 ms

Below is generated by plot.py at 2018-06-18 14:48:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 36.44 Mbit/s
95th percentile per-packet one-way delay: 82.589 ms
Loss rate: 2.93%
-- Flow 1:
Average throughput: 36.44 Mbit/s
95th percentile per-packet one-way delay: 82.589 ms
Loss rate: 2.93%

Run 4: Report of PCC-Expr — Data Link

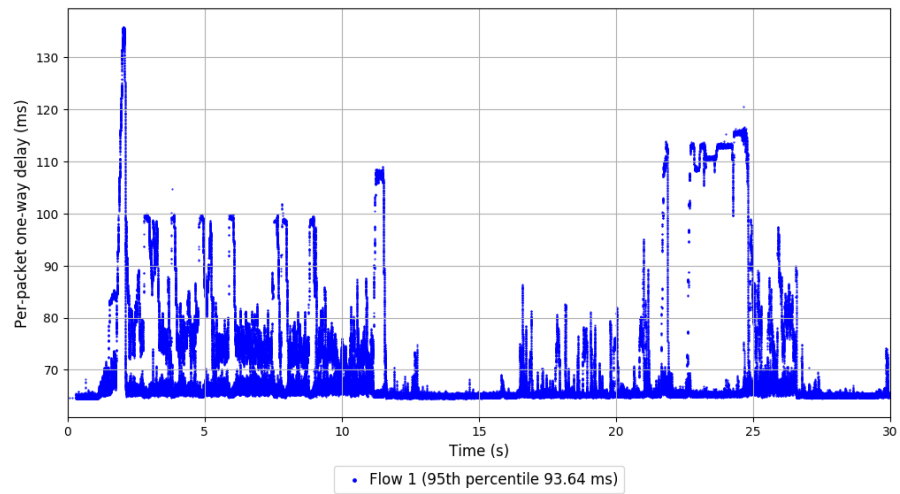
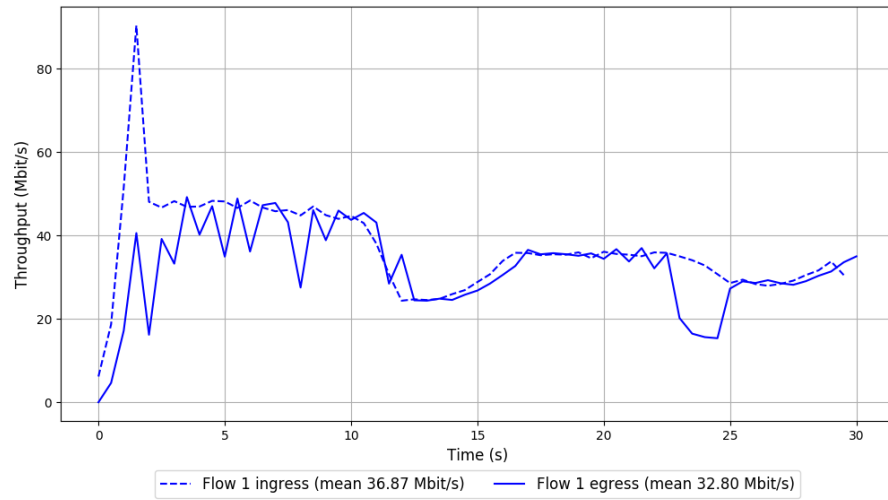


Run 5: Statistics of PCC-Expr

Start at: 2018-06-18 11:14:55
End at: 2018-06-18 11:15:25
Local clock offset: 6.399 ms
Remote clock offset: -1.378 ms

Below is generated by plot.py at 2018-06-18 14:48:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 32.80 Mbit/s
95th percentile per-packet one-way delay: 93.645 ms
Loss rate: 11.05%
-- Flow 1:
Average throughput: 32.80 Mbit/s
95th percentile per-packet one-way delay: 93.645 ms
Loss rate: 11.05%

Run 5: Report of PCC-Expr — Data Link

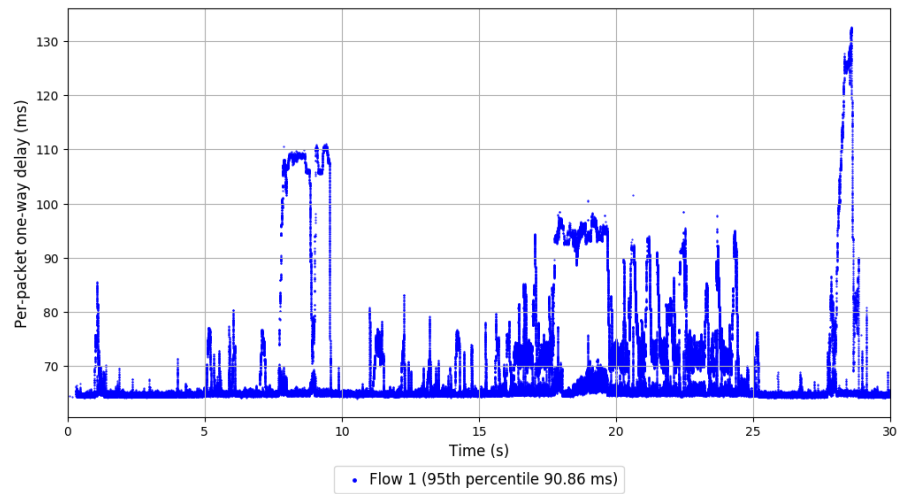
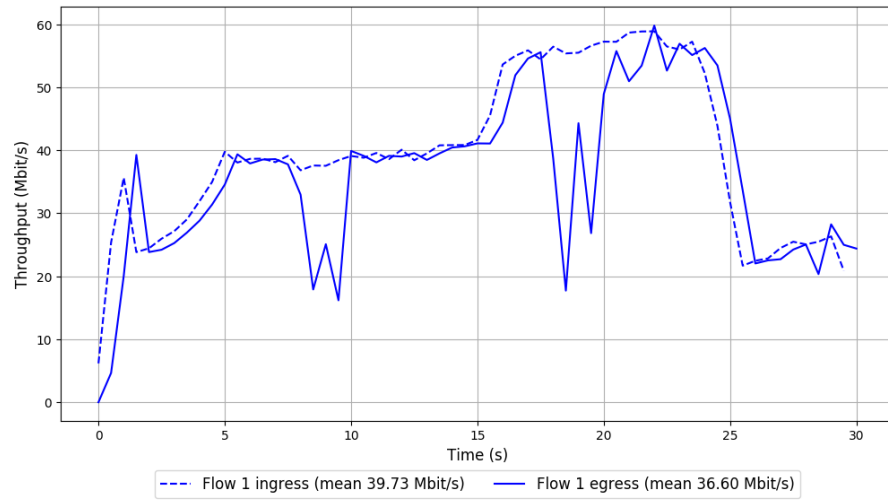


Run 6: Statistics of PCC-Expr

Start at: 2018-06-18 11:50:42
End at: 2018-06-18 11:51:12
Local clock offset: 0.105 ms
Remote clock offset: -0.588 ms

Below is generated by plot.py at 2018-06-18 14:48:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 36.60 Mbit/s
95th percentile per-packet one-way delay: 90.859 ms
Loss rate: 7.88%
-- Flow 1:
Average throughput: 36.60 Mbit/s
95th percentile per-packet one-way delay: 90.859 ms
Loss rate: 7.88%

Run 6: Report of PCC-Expr — Data Link

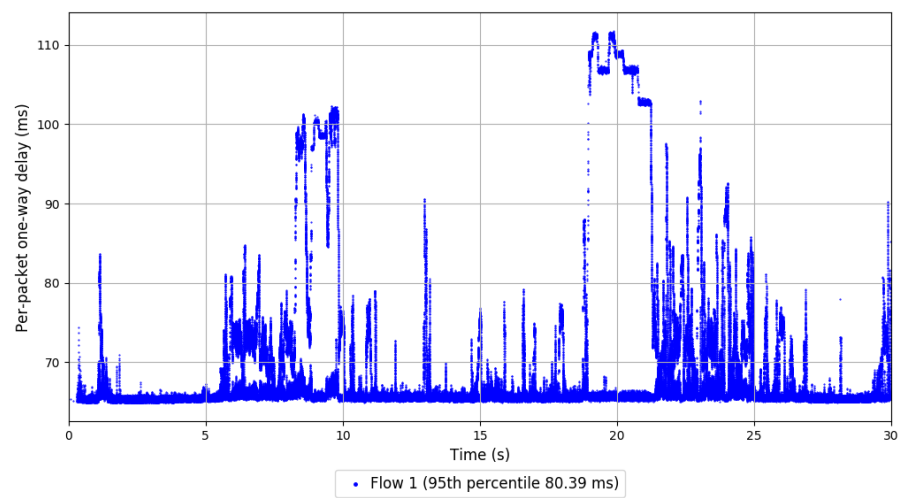
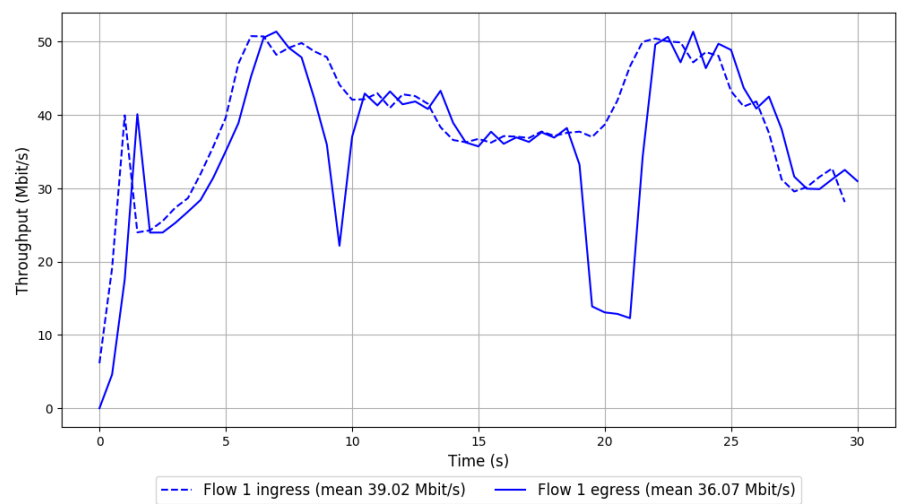


Run 7: Statistics of PCC-Expr

Start at: 2018-06-18 12:26:22
End at: 2018-06-18 12:26:52
Local clock offset: -4.405 ms
Remote clock offset: -0.629 ms

Below is generated by plot.py at 2018-06-18 14:48:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 36.07 Mbit/s
95th percentile per-packet one-way delay: 80.391 ms
Loss rate: 7.57%
-- Flow 1:
Average throughput: 36.07 Mbit/s
95th percentile per-packet one-way delay: 80.391 ms
Loss rate: 7.57%

Run 7: Report of PCC-Expr — Data Link

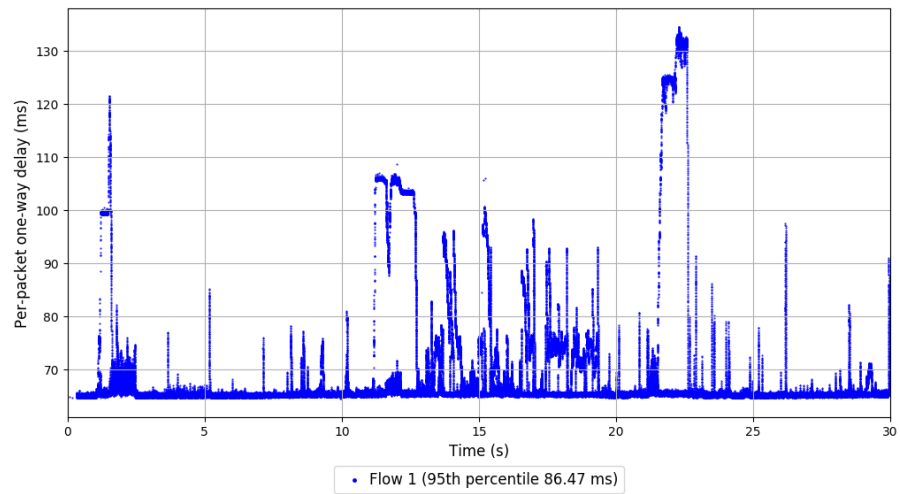
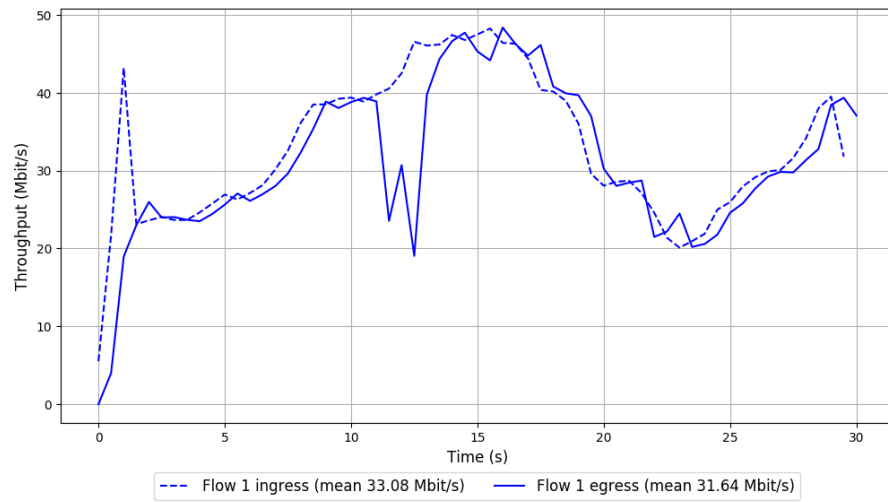


Run 8: Statistics of PCC-Expr

Start at: 2018-06-18 13:02:24
End at: 2018-06-18 13:02:54
Local clock offset: 4.194 ms
Remote clock offset: -1.855 ms

Below is generated by plot.py at 2018-06-18 14:48:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 31.64 Mbit/s
95th percentile per-packet one-way delay: 86.472 ms
Loss rate: 4.35%
-- Flow 1:
Average throughput: 31.64 Mbit/s
95th percentile per-packet one-way delay: 86.472 ms
Loss rate: 4.35%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-06-18 13:38:34

End at: 2018-06-18 13:39:04

Local clock offset: 1.071 ms

Remote clock offset: -1.422 ms

Below is generated by plot.py at 2018-06-18 14:48:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.38 Mbit/s

95th percentile per-packet one-way delay: 85.133 ms

Loss rate: 7.50%

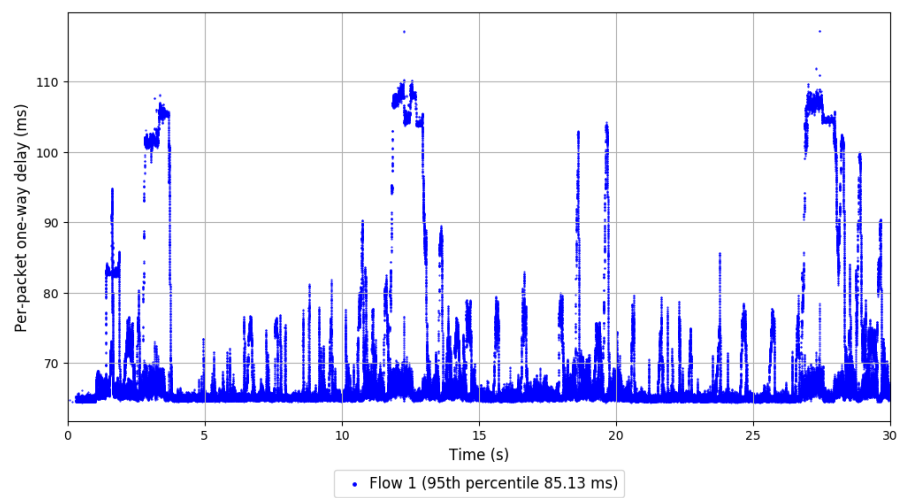
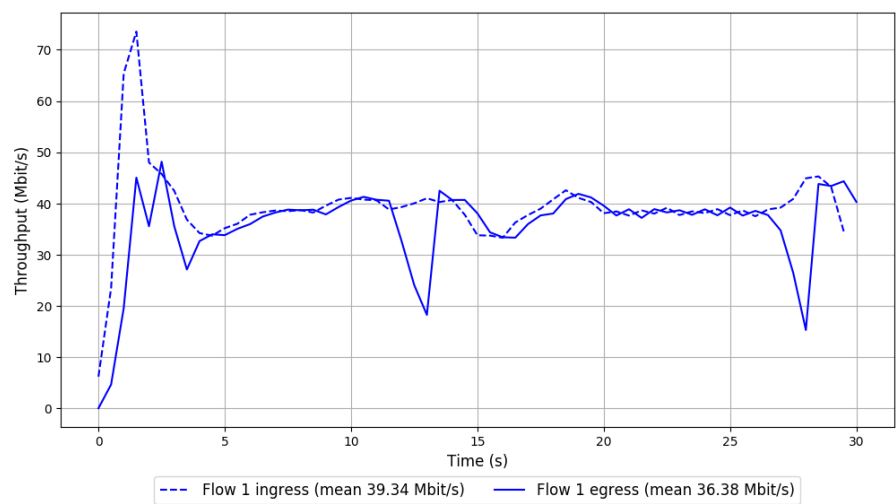
-- Flow 1:

Average throughput: 36.38 Mbit/s

95th percentile per-packet one-way delay: 85.133 ms

Loss rate: 7.50%

Run 9: Report of PCC-Expr — Data Link

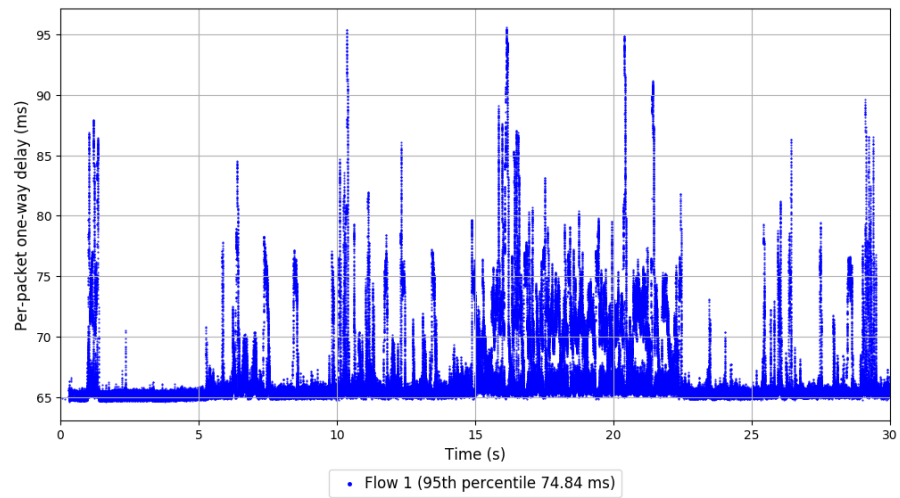
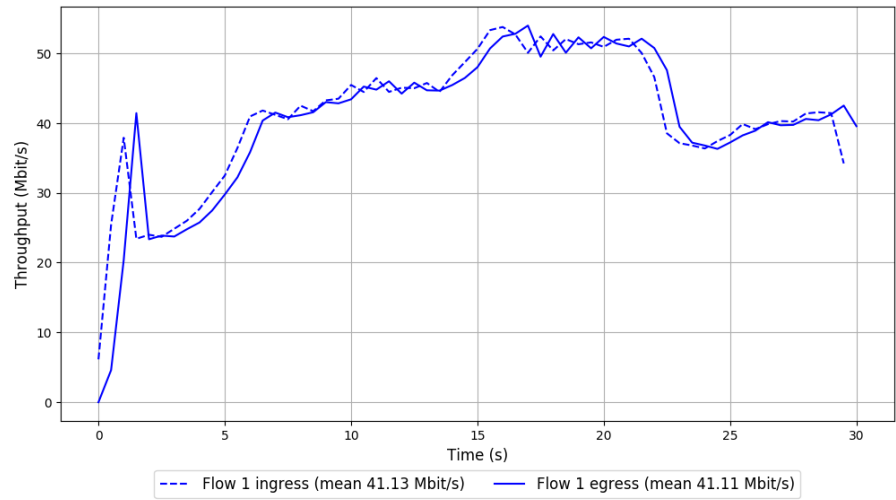


Run 10: Statistics of PCC-Expr

Start at: 2018-06-18 14:15:10
End at: 2018-06-18 14:15:40
Local clock offset: 3.524 ms
Remote clock offset: -2.626 ms

Below is generated by plot.py at 2018-06-18 14:49:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 41.11 Mbit/s
95th percentile per-packet one-way delay: 74.840 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 41.11 Mbit/s
95th percentile per-packet one-way delay: 74.840 ms
Loss rate: 0.04%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-06-18 09:02:56

End at: 2018-06-18 09:03:26

Local clock offset: 1.793 ms

Remote clock offset: -1.398 ms

Below is generated by plot.py at 2018-06-18 14:49:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.58 Mbit/s

95th percentile per-packet one-way delay: 67.067 ms

Loss rate: 0.25%

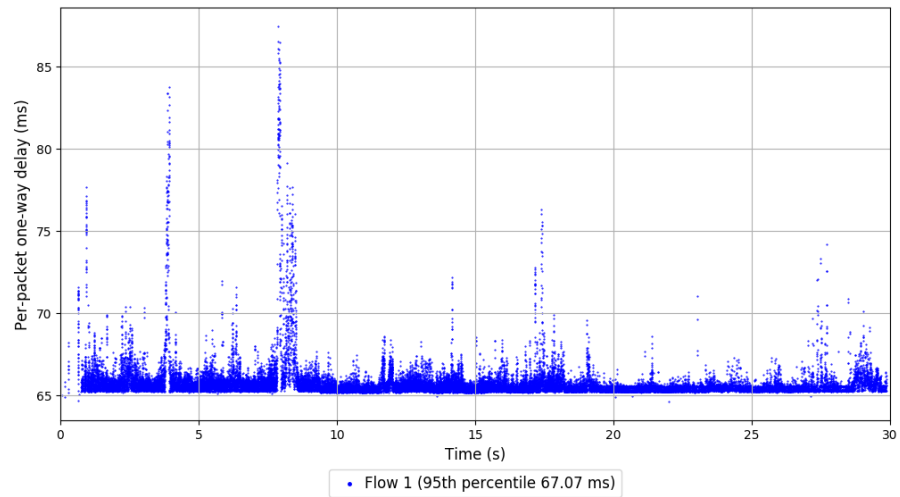
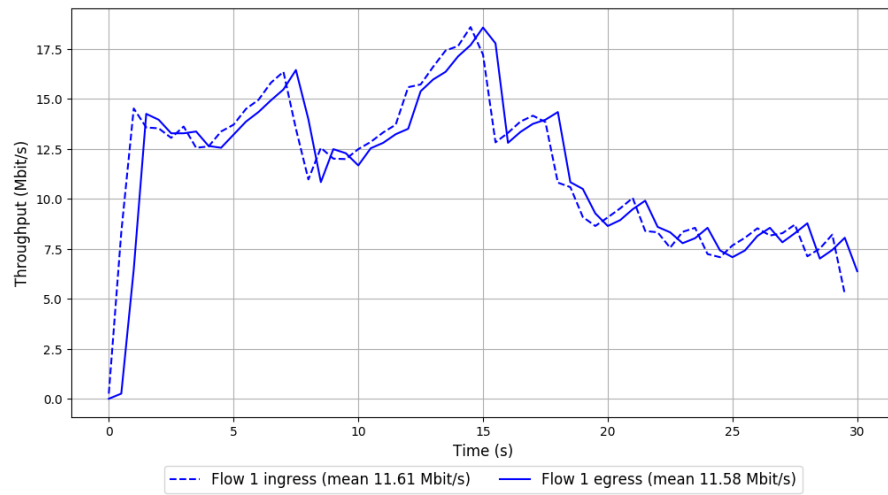
-- Flow 1:

Average throughput: 11.58 Mbit/s

95th percentile per-packet one-way delay: 67.067 ms

Loss rate: 0.25%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-06-18 09:37:39

End at: 2018-06-18 09:38:09

Local clock offset: 1.463 ms

Remote clock offset: 0.518 ms

Below is generated by plot.py at 2018-06-18 14:49:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.55 Mbit/s

95th percentile per-packet one-way delay: 74.308 ms

Loss rate: 1.15%

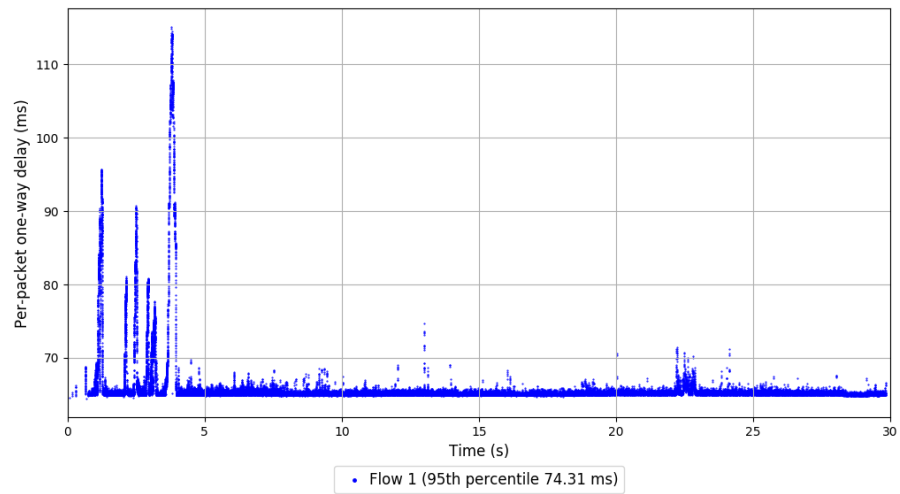
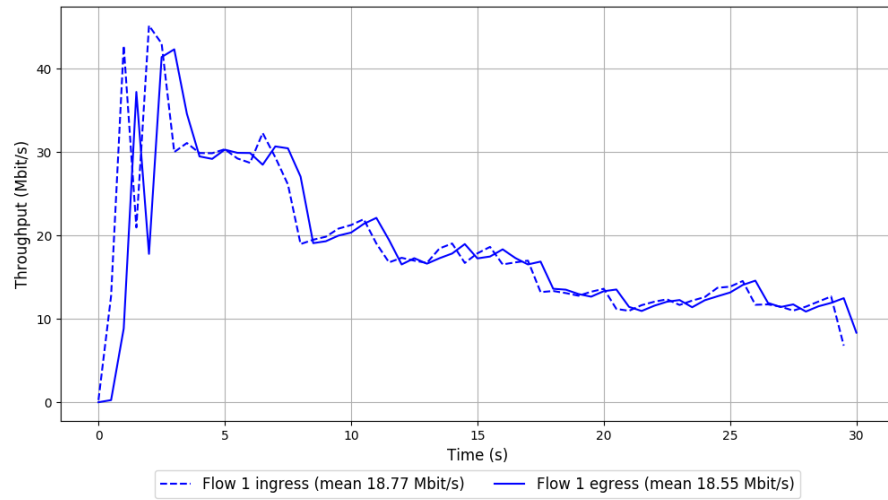
-- Flow 1:

Average throughput: 18.55 Mbit/s

95th percentile per-packet one-way delay: 74.308 ms

Loss rate: 1.15%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-06-18 10:13:54

End at: 2018-06-18 10:14:24

Local clock offset: -3.903 ms

Remote clock offset: -1.336 ms

Below is generated by plot.py at 2018-06-18 14:49:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.42 Mbit/s

95th percentile per-packet one-way delay: 151.292 ms

Loss rate: 1.65%

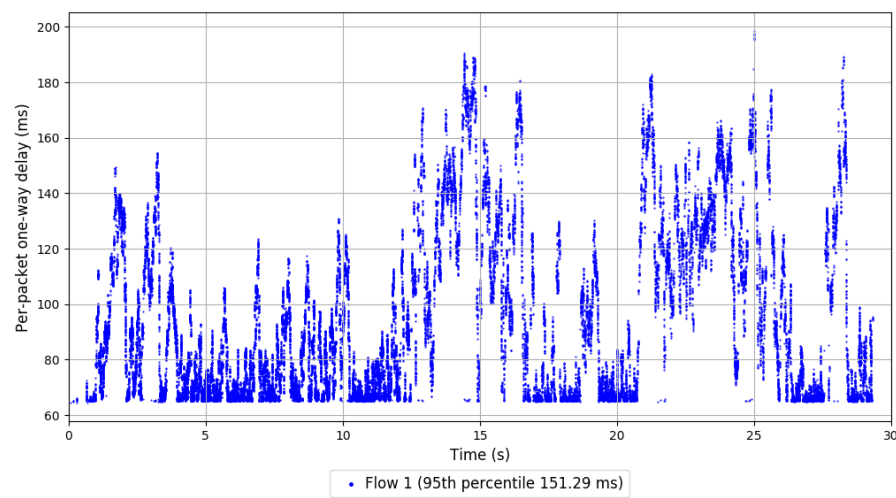
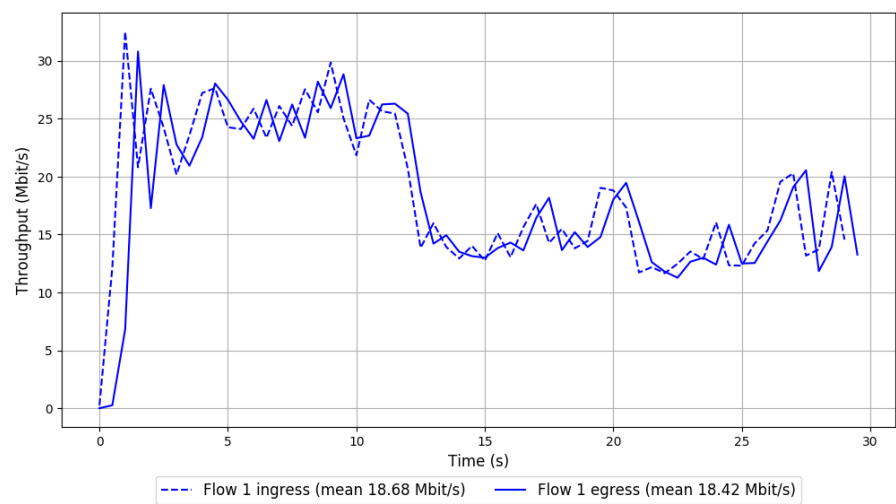
-- Flow 1:

Average throughput: 18.42 Mbit/s

95th percentile per-packet one-way delay: 151.292 ms

Loss rate: 1.65%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-06-18 10:45:27

End at: 2018-06-18 10:45:57

Local clock offset: 1.531 ms

Remote clock offset: -3.33 ms

Below is generated by plot.py at 2018-06-18 14:49:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.46 Mbit/s

95th percentile per-packet one-way delay: 105.801 ms

Loss rate: 1.26%

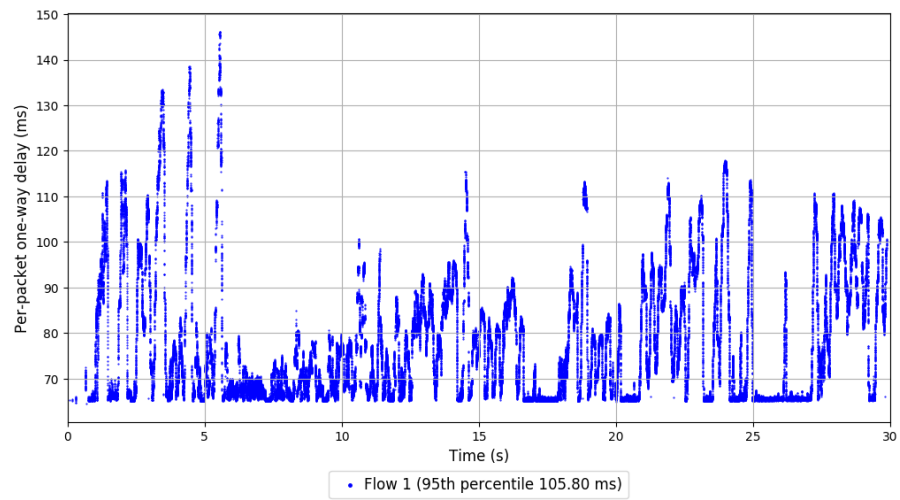
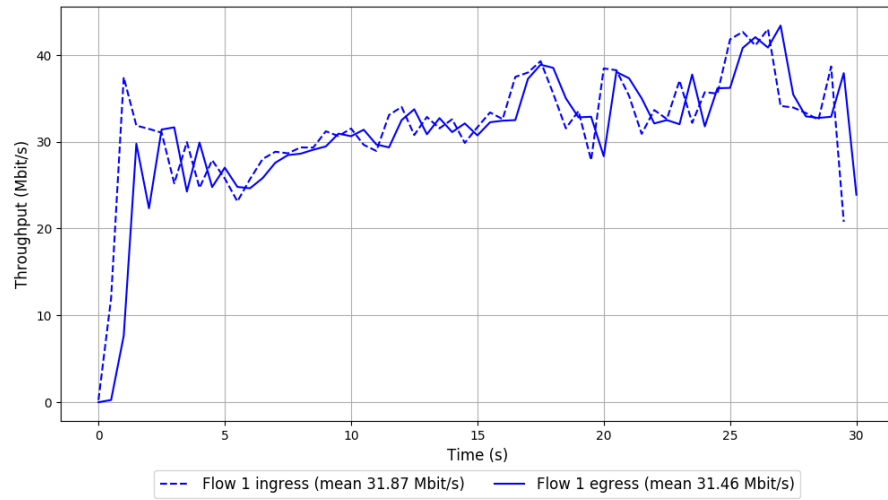
-- Flow 1:

Average throughput: 31.46 Mbit/s

95th percentile per-packet one-way delay: 105.801 ms

Loss rate: 1.26%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-06-18 11:23:57

End at: 2018-06-18 11:24:27

Local clock offset: 7.385 ms

Remote clock offset: -1.277 ms

Below is generated by plot.py at 2018-06-18 14:49:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.72 Mbit/s

95th percentile per-packet one-way delay: 65.874 ms

Loss rate: 0.25%

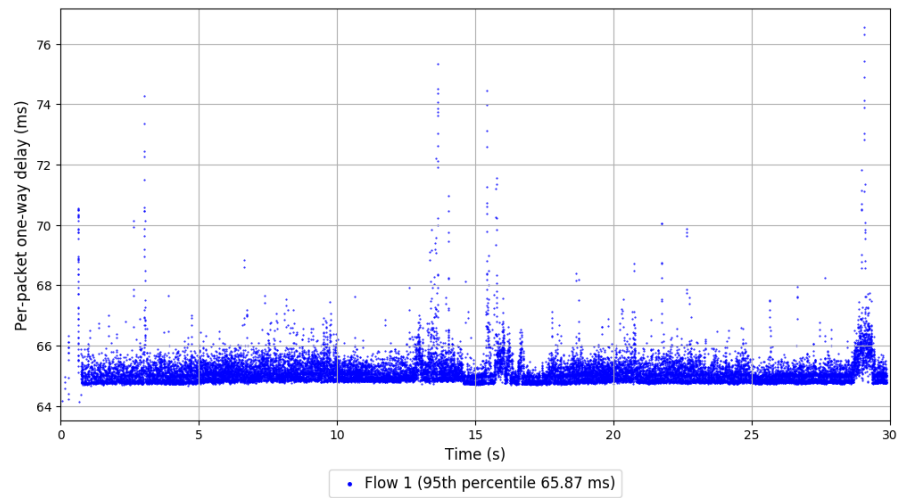
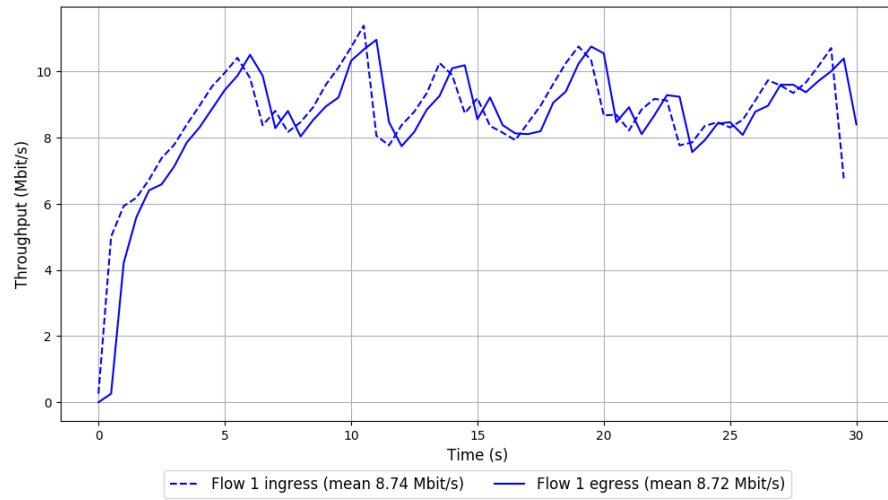
-- Flow 1:

Average throughput: 8.72 Mbit/s

95th percentile per-packet one-way delay: 65.874 ms

Loss rate: 0.25%

Run 5: Report of QUIC Cubic — Data Link

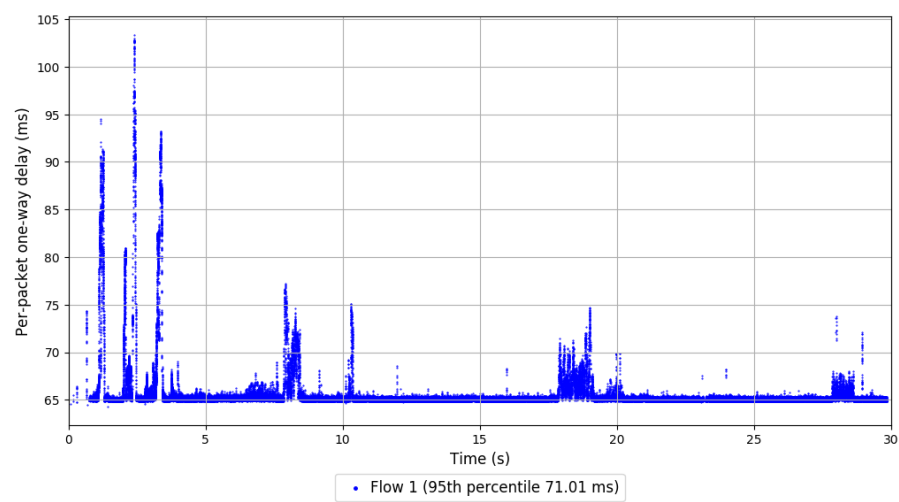
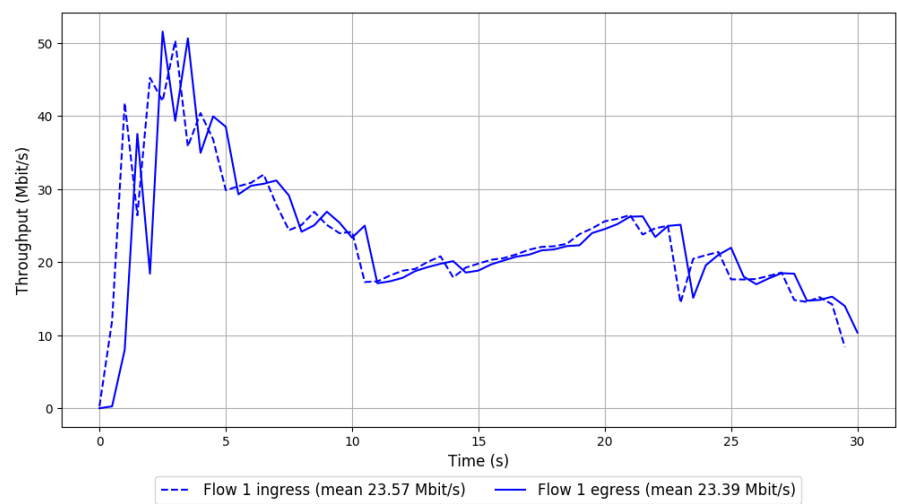


Run 6: Statistics of QUIC Cubic

Start at: 2018-06-18 11:58:12
End at: 2018-06-18 11:58:42
Local clock offset: -0.832 ms
Remote clock offset: -0.467 ms

Below is generated by plot.py at 2018-06-18 14:49:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 23.39 Mbit/s
95th percentile per-packet one-way delay: 71.006 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 23.39 Mbit/s
95th percentile per-packet one-way delay: 71.006 ms
Loss rate: 0.78%

Run 6: Report of QUIC Cubic — Data Link

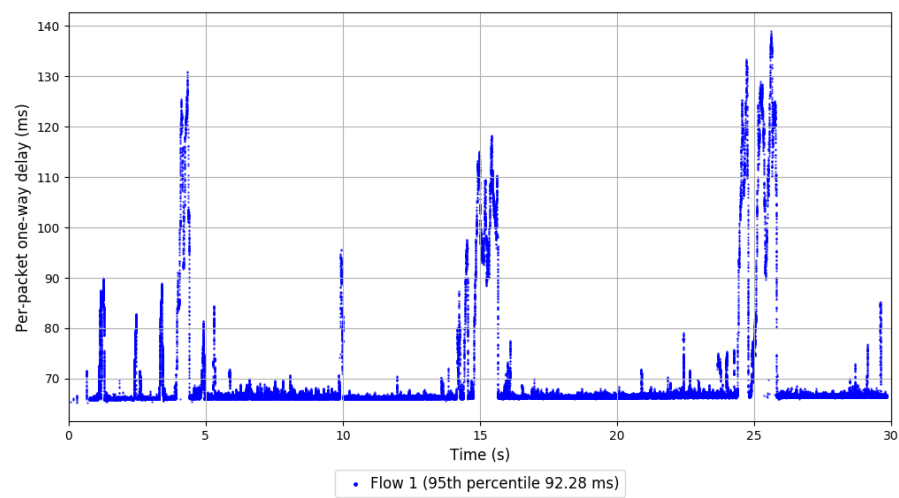
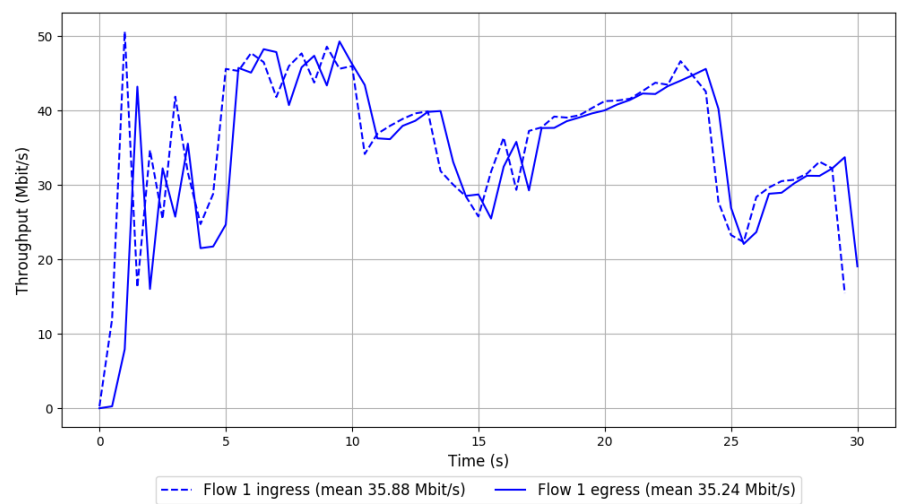


Run 7: Statistics of QUIC Cubic

Start at: 2018-06-18 12:33:46
End at: 2018-06-18 12:34:16
Local clock offset: -3.333 ms
Remote clock offset: -0.686 ms

Below is generated by plot.py at 2018-06-18 14:49:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 35.24 Mbit/s
95th percentile per-packet one-way delay: 92.282 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 35.24 Mbit/s
95th percentile per-packet one-way delay: 92.282 ms
Loss rate: 1.78%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-06-18 13:10:52

End at: 2018-06-18 13:11:22

Local clock offset: 4.478 ms

Remote clock offset: -1.76 ms

Below is generated by plot.py at 2018-06-18 14:49:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.98 Mbit/s

95th percentile per-packet one-way delay: 77.726 ms

Loss rate: 2.06%

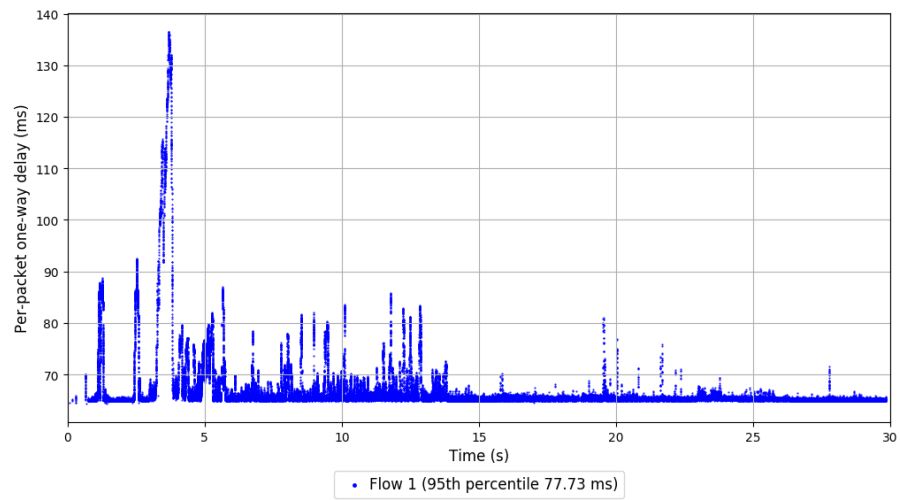
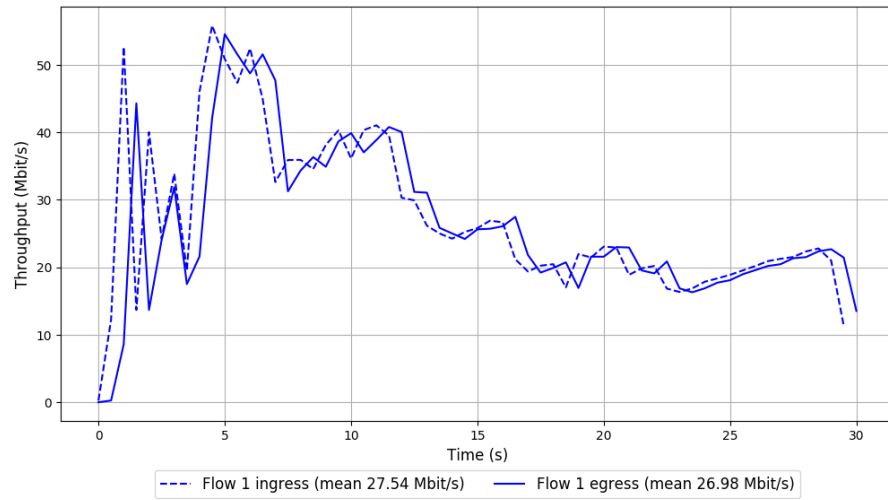
-- Flow 1:

Average throughput: 26.98 Mbit/s

95th percentile per-packet one-way delay: 77.726 ms

Loss rate: 2.06%

Run 8: Report of QUIC Cubic — Data Link

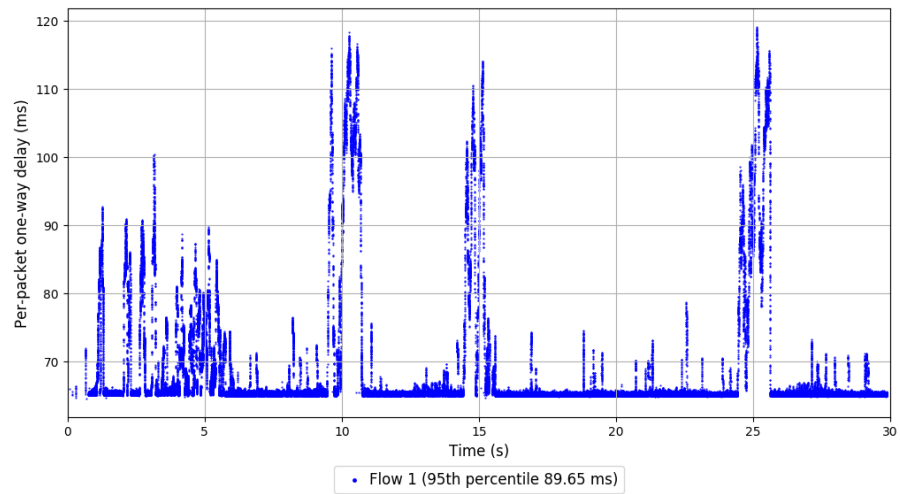
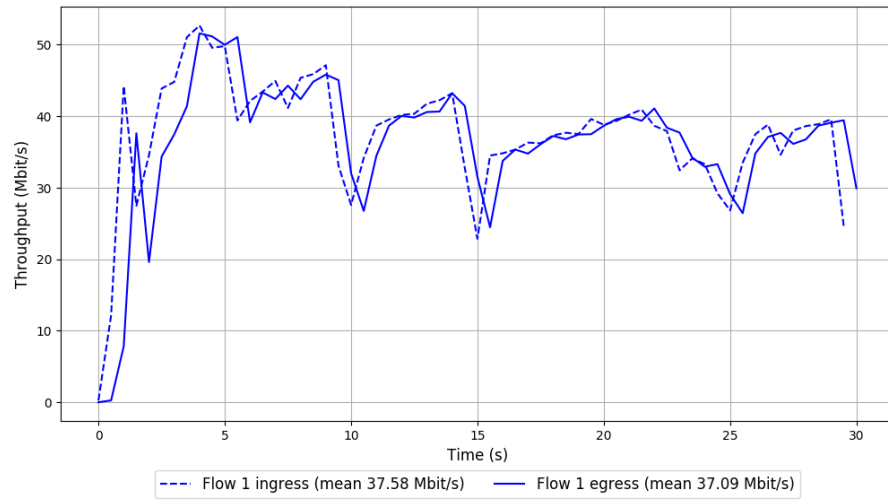


Run 9: Statistics of QUIC Cubic

Start at: 2018-06-18 13:46:11
End at: 2018-06-18 13:46:41
Local clock offset: -1.037 ms
Remote clock offset: -1.878 ms

Below is generated by plot.py at 2018-06-18 14:49:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 37.09 Mbit/s
95th percentile per-packet one-way delay: 89.650 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 37.09 Mbit/s
95th percentile per-packet one-way delay: 89.650 ms
Loss rate: 1.30%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-06-18 14:22:54

End at: 2018-06-18 14:23:24

Local clock offset: 4.848 ms

Remote clock offset: -0.987 ms

Below is generated by plot.py at 2018-06-18 14:49:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.46 Mbit/s

95th percentile per-packet one-way delay: 76.890 ms

Loss rate: 1.08%

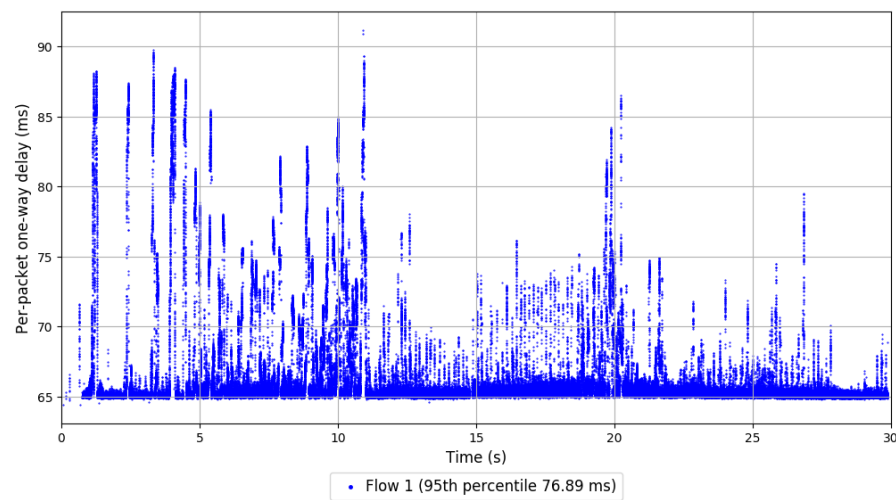
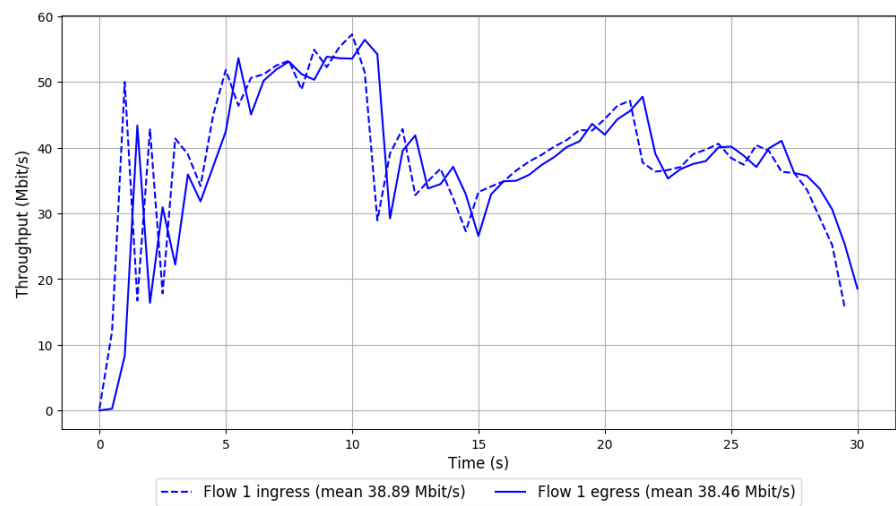
-- Flow 1:

Average throughput: 38.46 Mbit/s

95th percentile per-packet one-way delay: 76.890 ms

Loss rate: 1.08%

Run 10: Report of QUIC Cubic — Data Link

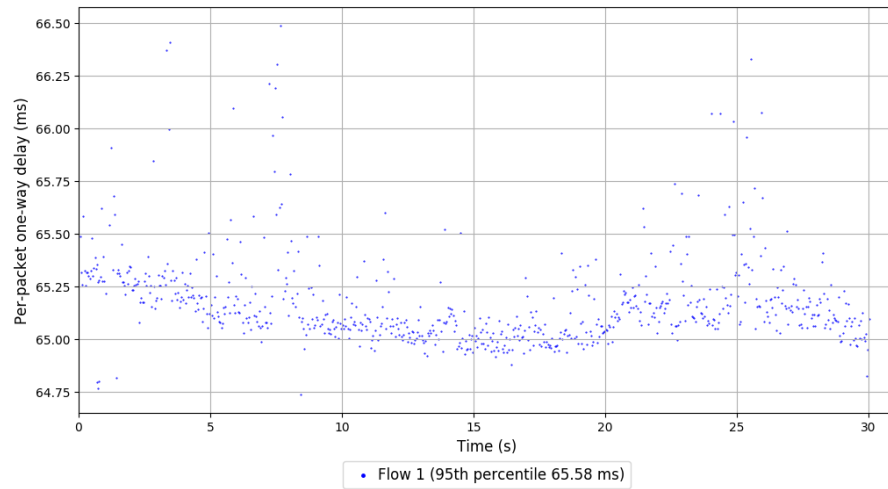
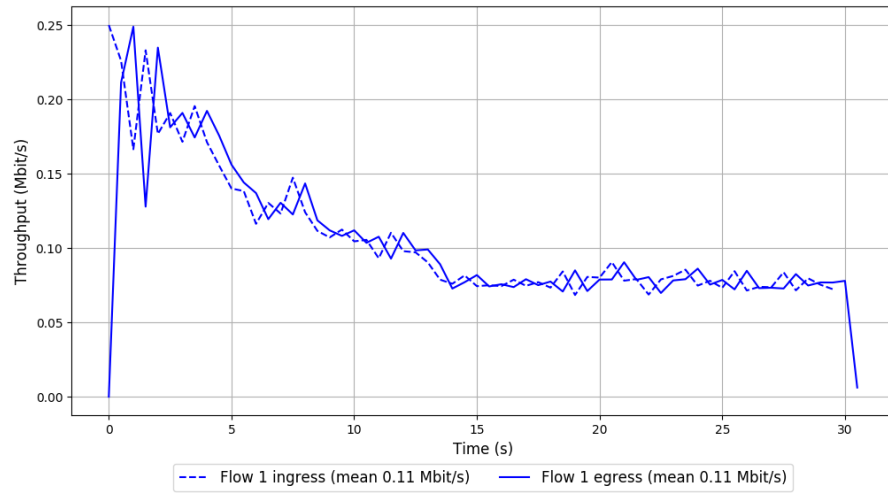


```
Run 1: Statistics of SCReAM

Start at: 2018-06-18 09:04:35
End at: 2018-06-18 09:05:05
Local clock offset: 1.831 ms
Remote clock offset: -1.373 ms

# Below is generated by plot.py at 2018-06-18 14:49:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 65.582 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 65.582 ms
Loss rate: 0.57%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-06-18 09:39:37

End at: 2018-06-18 09:40:07

Local clock offset: 1.232 ms

Remote clock offset: 0.58 ms

Below is generated by plot.py at 2018-06-18 14:49:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 65.225 ms

Loss rate: 0.00%

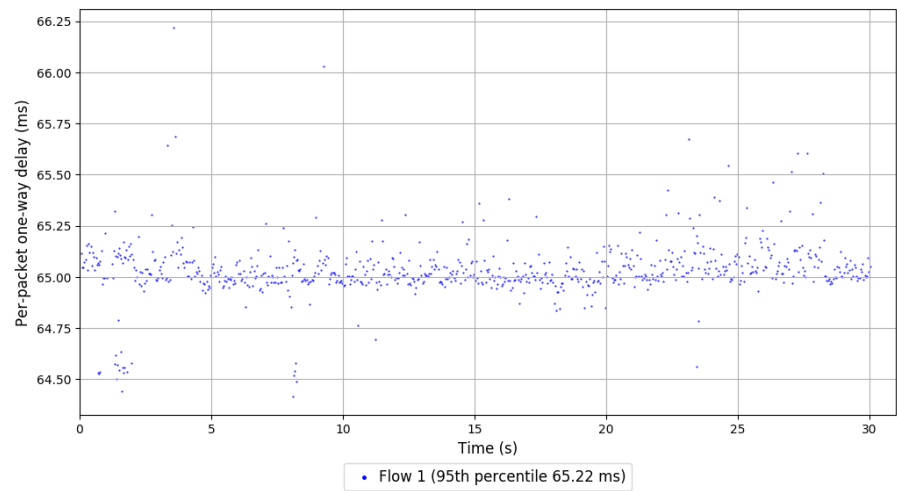
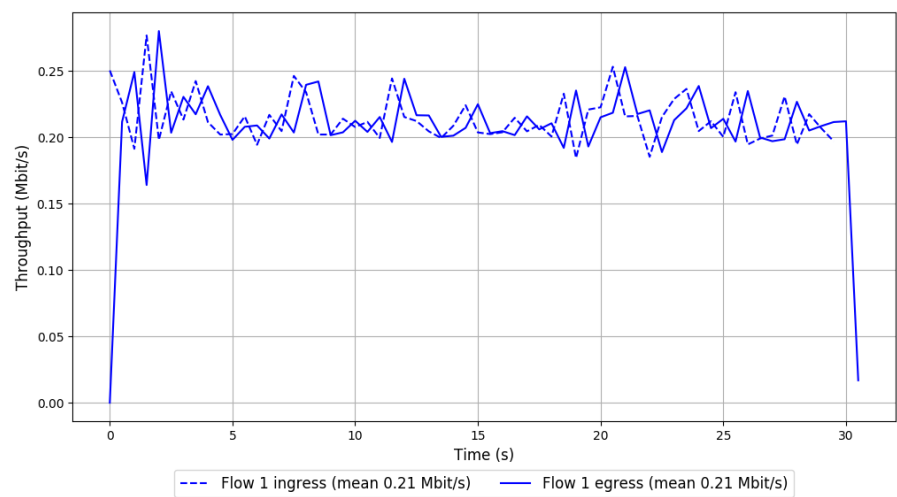
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 65.225 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

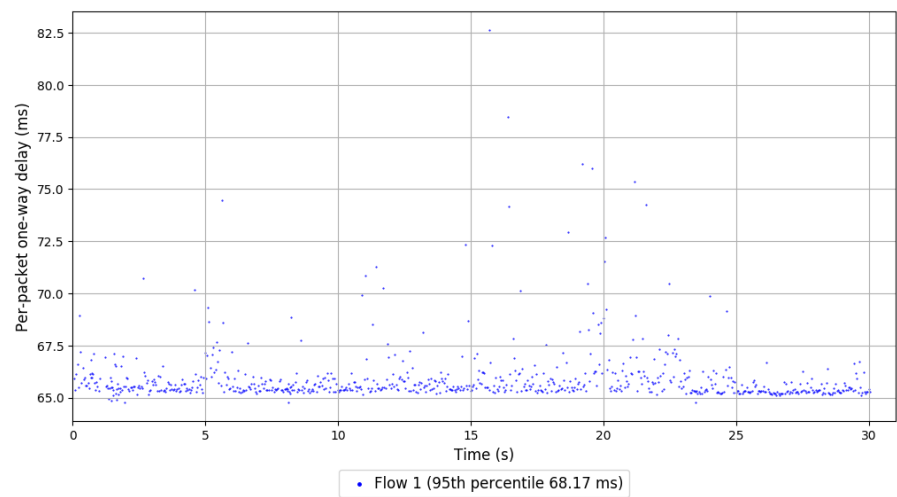
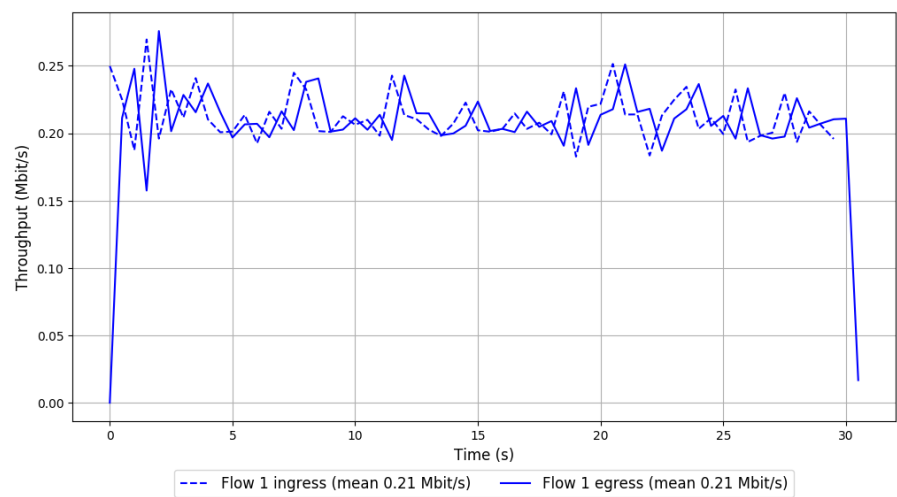


Run 3: Statistics of SCReAM

Start at: 2018-06-18 10:15:49
End at: 2018-06-18 10:16:19
Local clock offset: -4.167 ms
Remote clock offset: -1.213 ms

Below is generated by plot.py at 2018-06-18 14:49:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 68.171 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 68.171 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

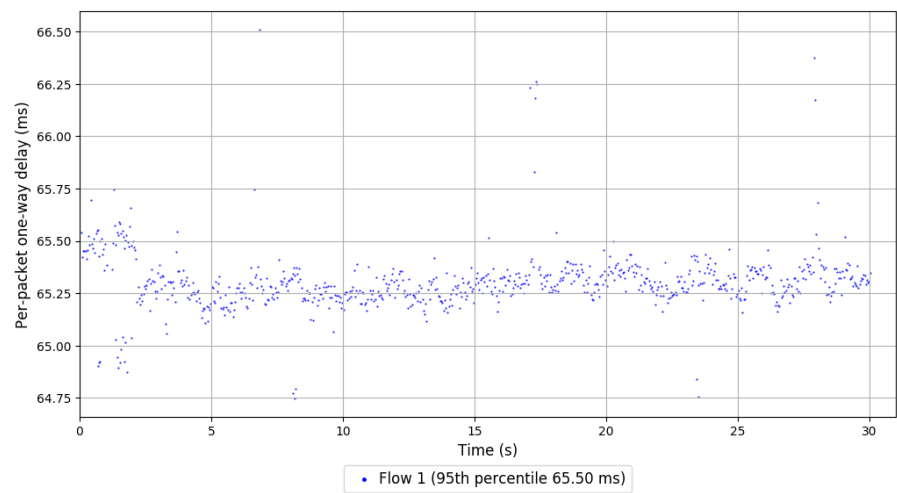
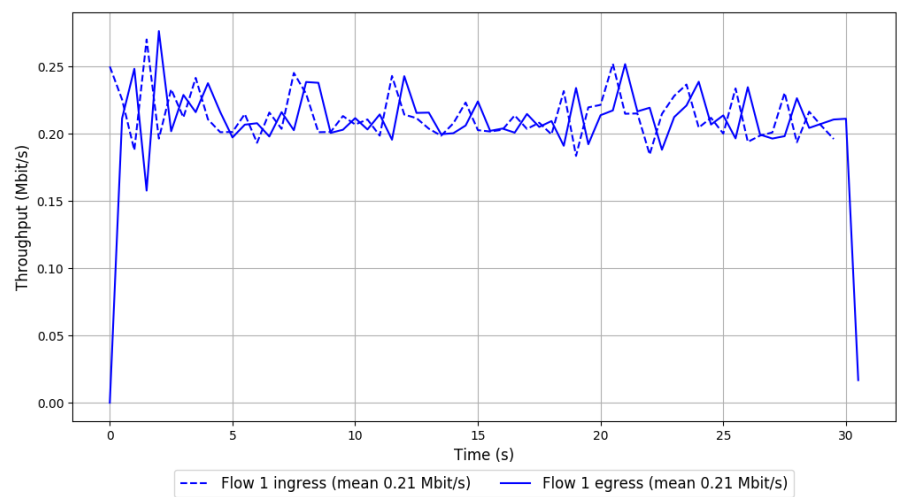


Run 4: Statistics of SCReAM

Start at: 2018-06-18 10:48:08
End at: 2018-06-18 10:48:38
Local clock offset: 2.002 ms
Remote clock offset: -3.366 ms

Below is generated by plot.py at 2018-06-18 14:49:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 65.496 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 65.496 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

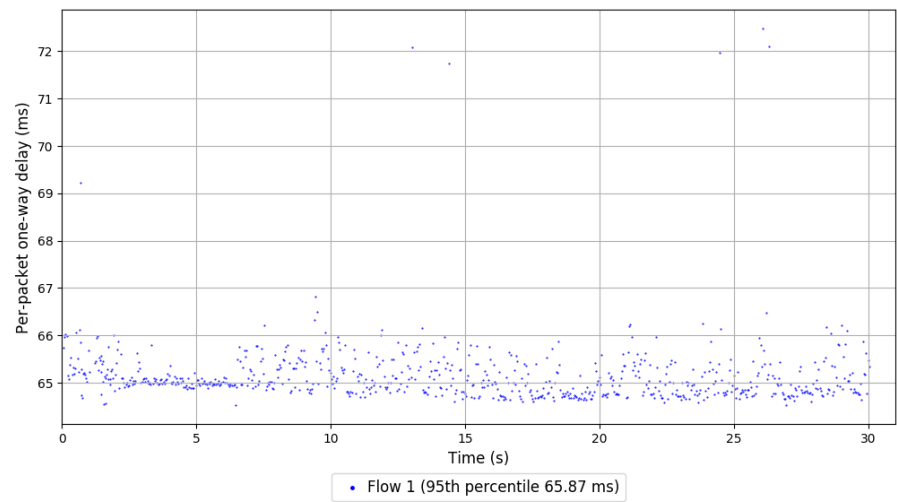
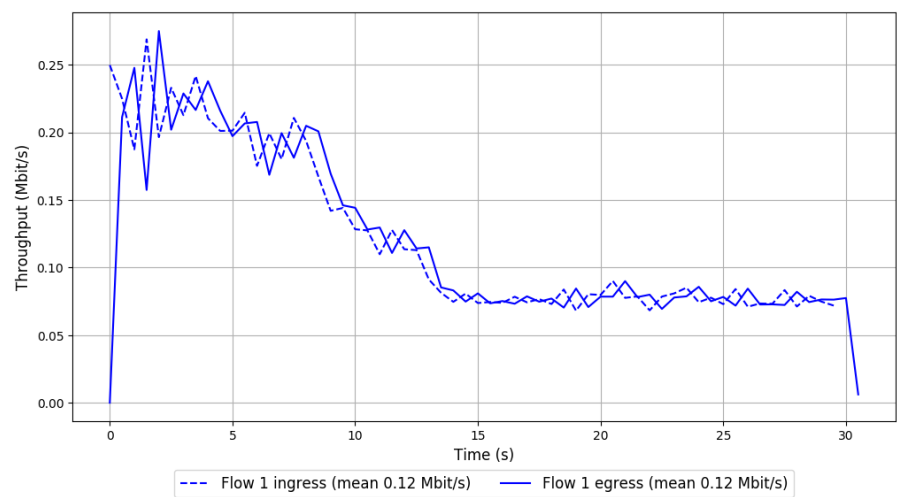


Run 5: Statistics of SCReAM

Start at: 2018-06-18 11:25:34
End at: 2018-06-18 11:26:04
Local clock offset: 7.517 ms
Remote clock offset: -1.391 ms

Below is generated by plot.py at 2018-06-18 14:49:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 65.871 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 65.871 ms
Loss rate: 0.30%

Run 5: Report of SReAM — Data Link

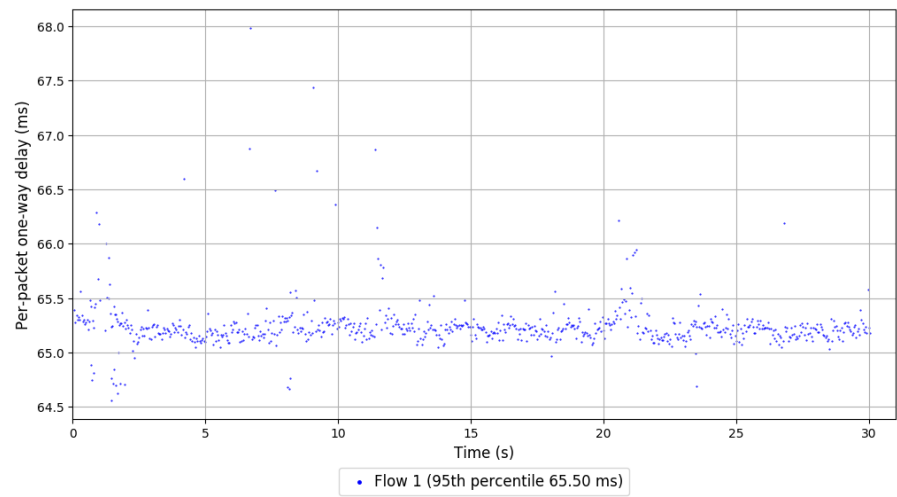
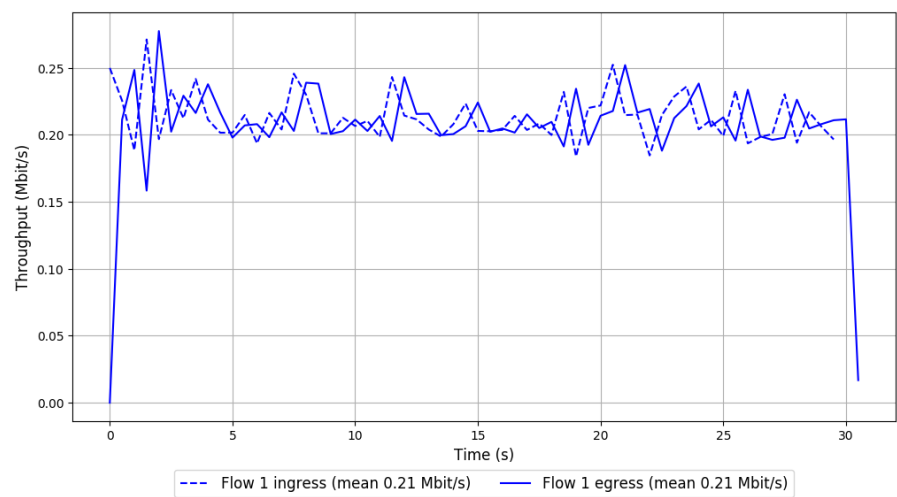


Run 6: Statistics of SCReAM

Start at: 2018-06-18 12:00:19
End at: 2018-06-18 12:00:49
Local clock offset: -1.189 ms
Remote clock offset: -0.524 ms

Below is generated by plot.py at 2018-06-18 14:49:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 65.496 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 65.496 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

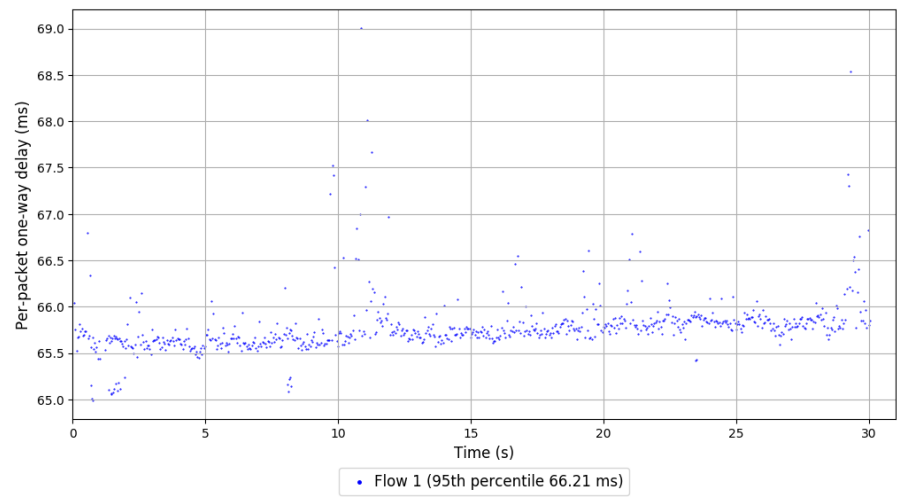
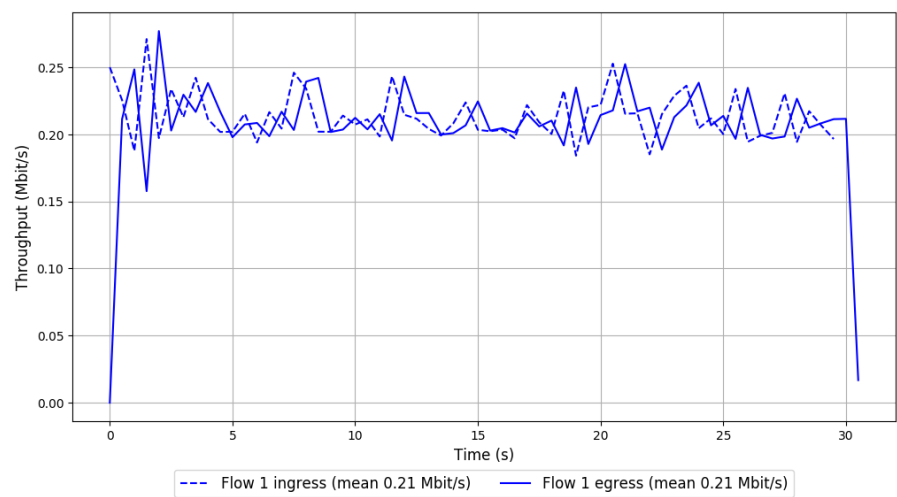


Run 7: Statistics of SCReAM

Start at: 2018-06-18 12:36:21
End at: 2018-06-18 12:36:51
Local clock offset: -1.416 ms
Remote clock offset: -0.957 ms

Below is generated by plot.py at 2018-06-18 14:49:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 66.208 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 66.208 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

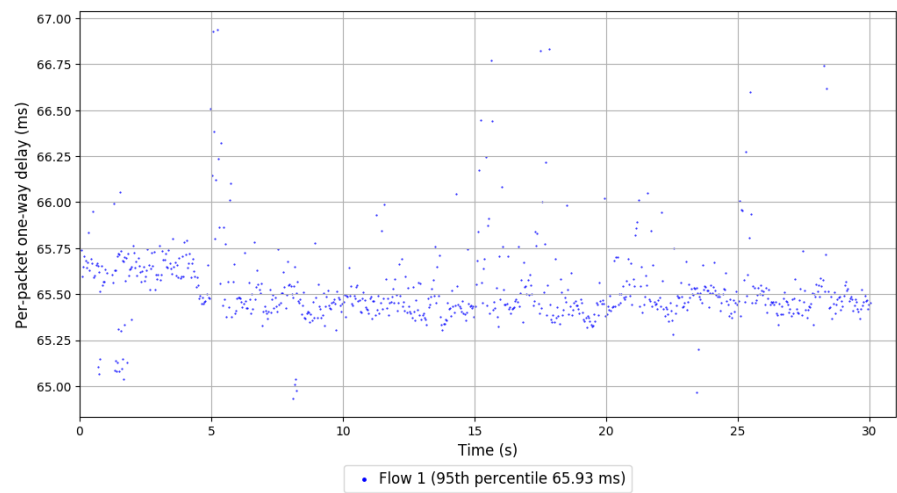
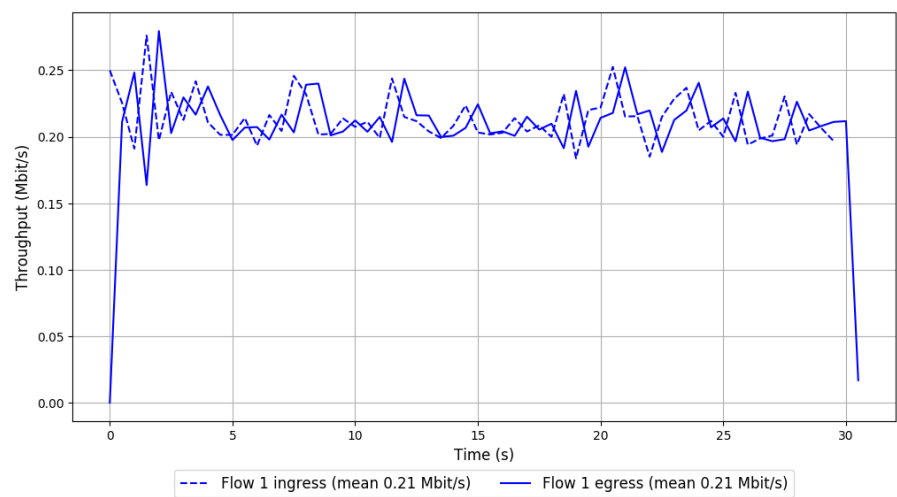


Run 8: Statistics of SCReAM

Start at: 2018-06-18 13:13:10
End at: 2018-06-18 13:13:40
Local clock offset: 4.362 ms
Remote clock offset: -1.709 ms

Below is generated by plot.py at 2018-06-18 14:49:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 65.928 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 65.928 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

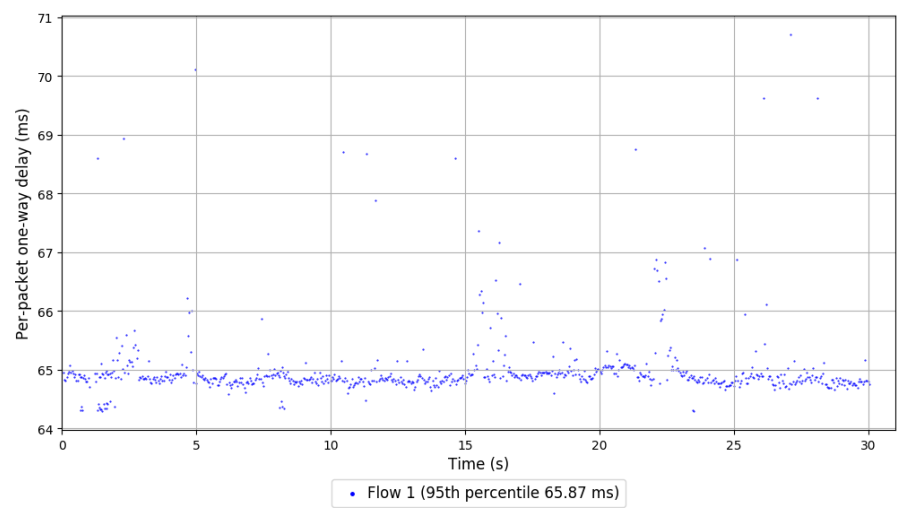
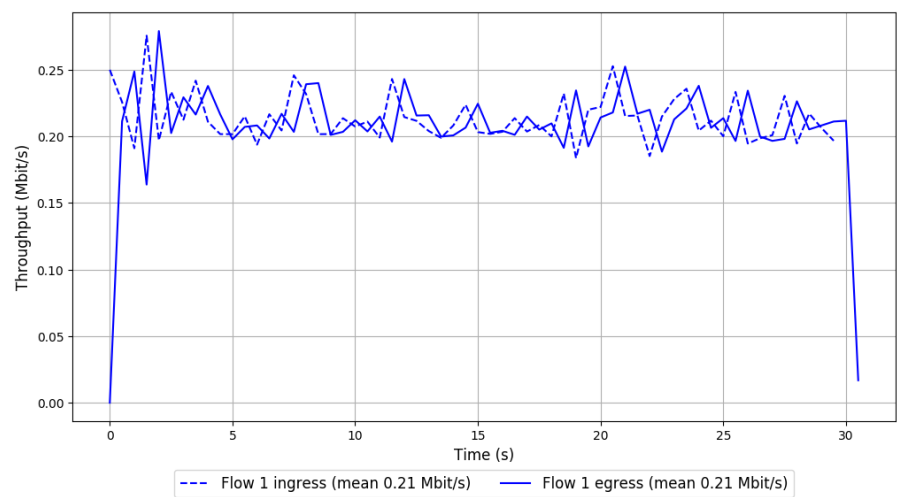


Run 9: Statistics of SCReAM

Start at: 2018-06-18 13:48:53
End at: 2018-06-18 13:49:23
Local clock offset: -1.52 ms
Remote clock offset: -1.985 ms

Below is generated by plot.py at 2018-06-18 14:49:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 65.866 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 65.866 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

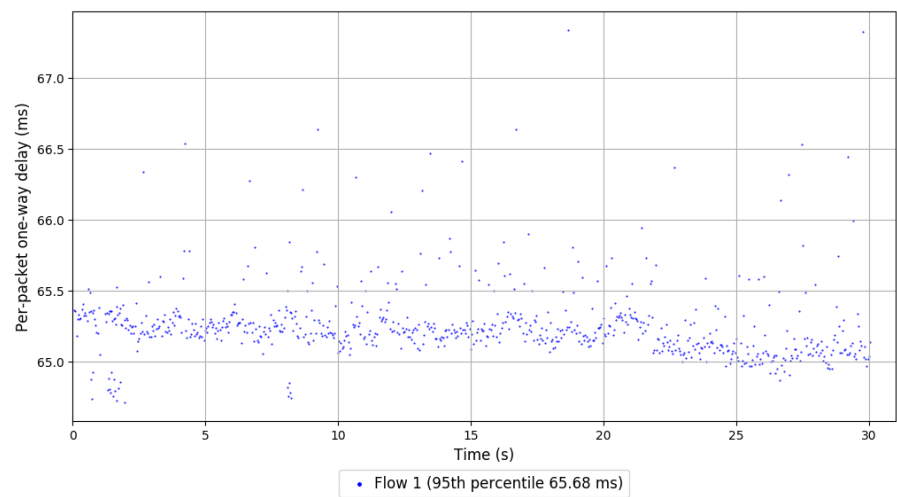
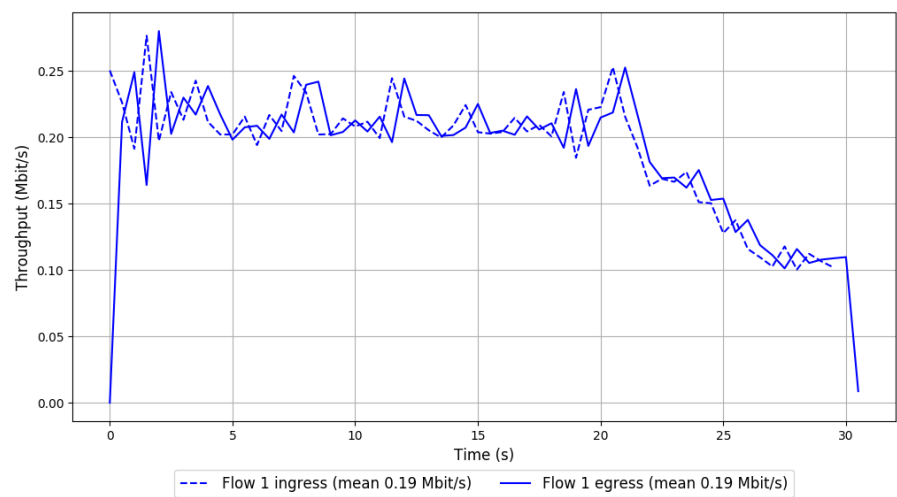


Run 10: Statistics of SReAM

Start at: 2018-06-18 14:25:41
End at: 2018-06-18 14:26:11
Local clock offset: 5.293 ms
Remote clock offset: -0.549 ms

Below is generated by plot.py at 2018-06-18 14:49:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 65.684 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 65.684 ms
Loss rate: 0.15%

Run 10: Report of SReAM — Data Link

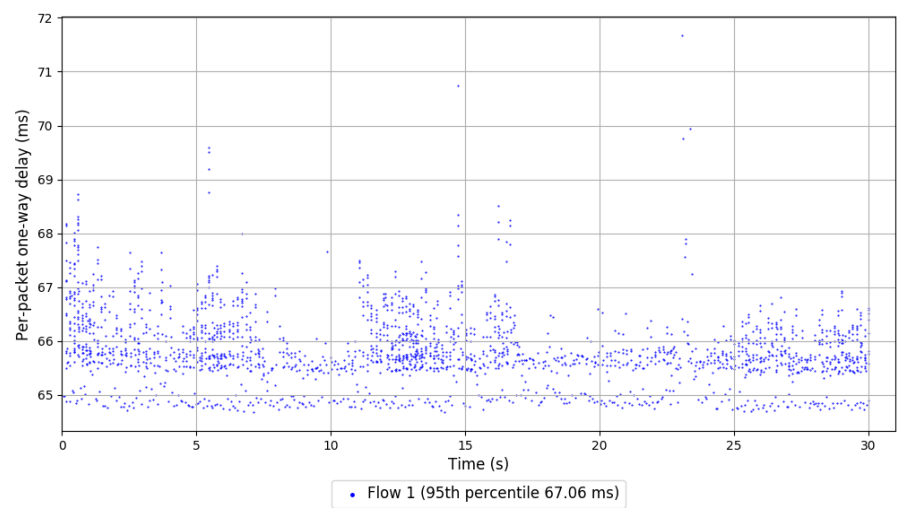
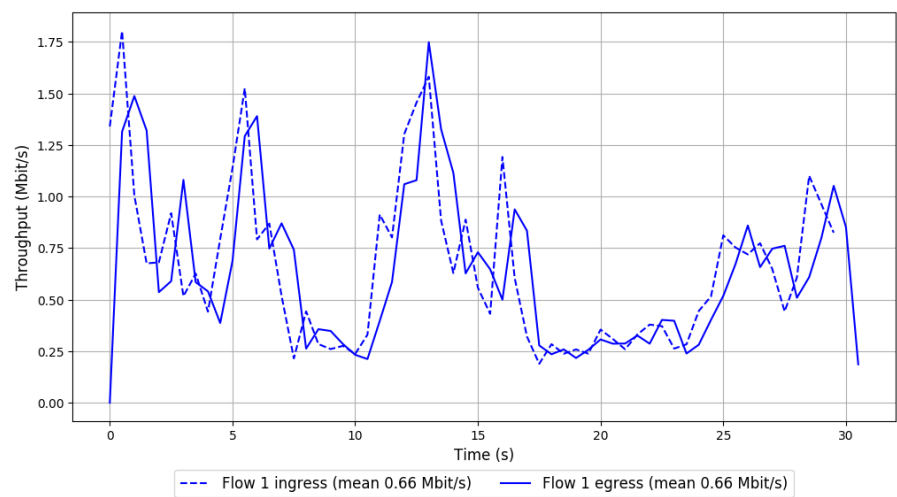


Run 1: Statistics of Sprout

Start at: 2018-06-18 09:08:39
End at: 2018-06-18 09:09:09
Local clock offset: 2.359 ms
Remote clock offset: -1.417 ms

Below is generated by plot.py at 2018-06-18 14:49:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 67.055 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 67.055 ms
Loss rate: 0.19%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-06-18 09:43:49

End at: 2018-06-18 09:44:19

Local clock offset: 0.978 ms

Remote clock offset: 0.455 ms

Below is generated by plot.py at 2018-06-18 14:49:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.68 Mbit/s

95th percentile per-packet one-way delay: 68.436 ms

Loss rate: 0.07%

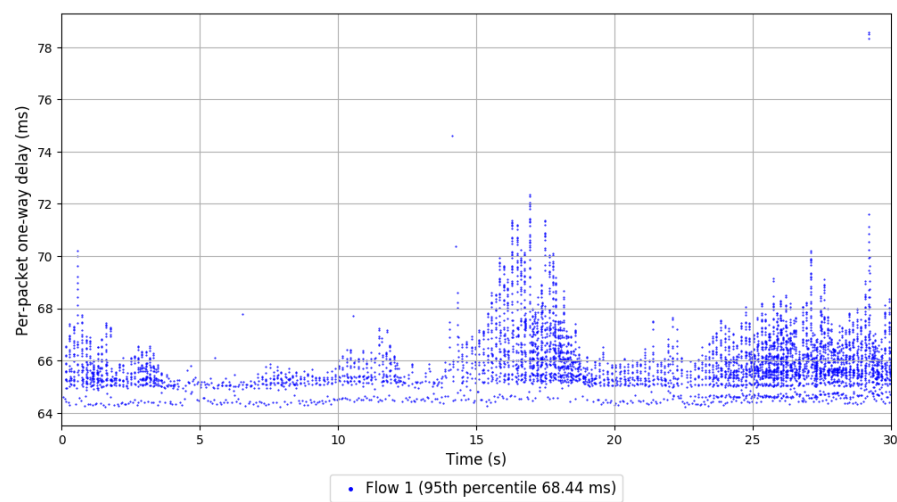
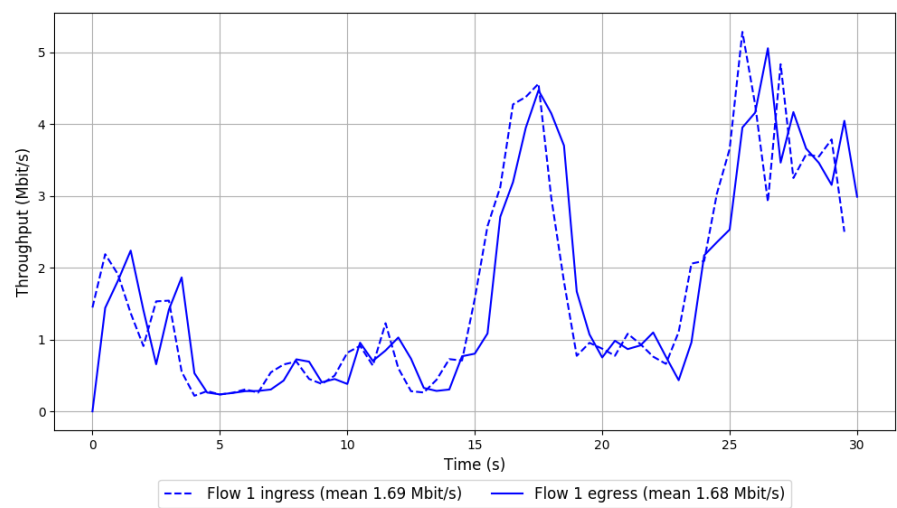
-- Flow 1:

Average throughput: 1.68 Mbit/s

95th percentile per-packet one-way delay: 68.436 ms

Loss rate: 0.07%

Run 2: Report of Sprout — Data Link

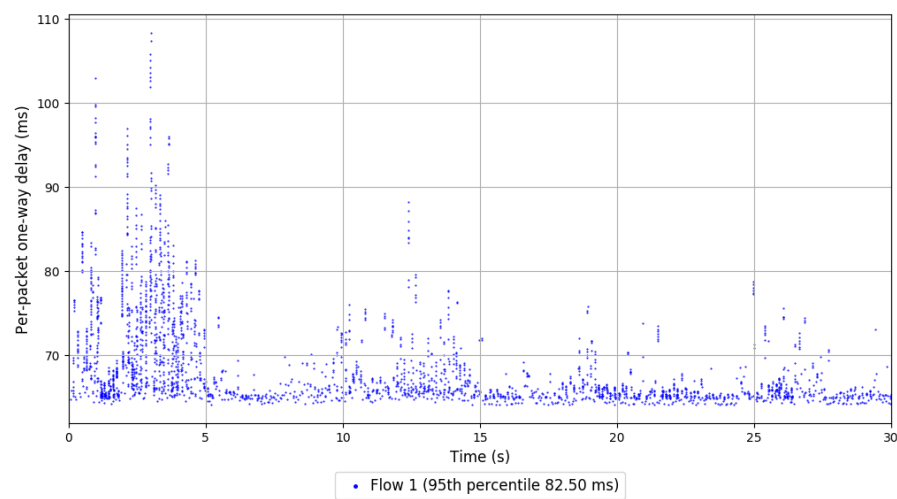
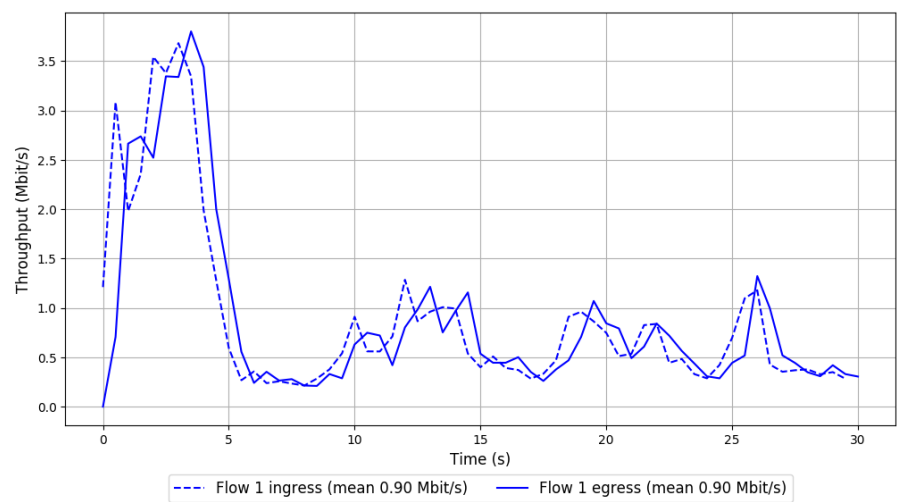


Run 3: Statistics of Sprout

Start at: 2018-06-18 10:20:12
End at: 2018-06-18 10:20:42
Local clock offset: -4.755 ms
Remote clock offset: -2.129 ms

Below is generated by plot.py at 2018-06-18 14:49:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.90 Mbit/s
95th percentile per-packet one-way delay: 82.501 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.90 Mbit/s
95th percentile per-packet one-way delay: 82.501 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

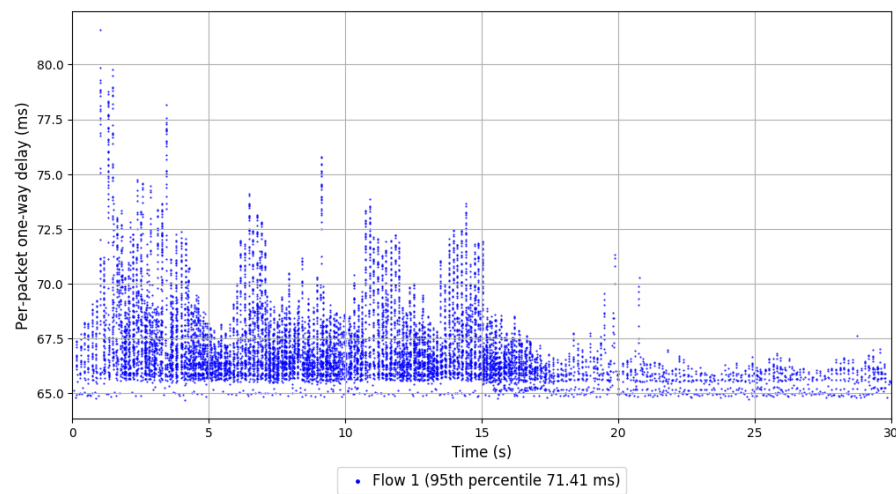
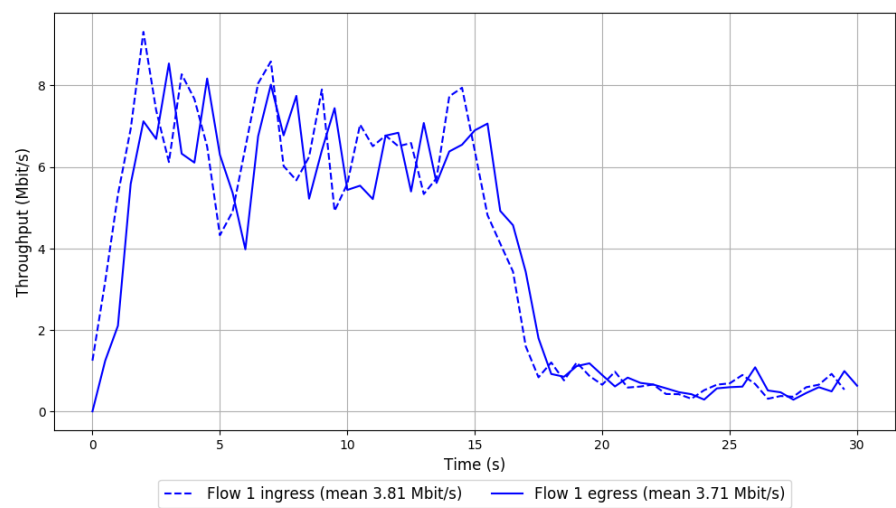


Run 4: Statistics of Sprout

Start at: 2018-06-18 10:53:11
End at: 2018-06-18 10:53:41
Local clock offset: 2.65 ms
Remote clock offset: -2.943 ms

Below is generated by plot.py at 2018-06-18 14:49:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.71 Mbit/s
95th percentile per-packet one-way delay: 71.414 ms
Loss rate: 2.51%
-- Flow 1:
Average throughput: 3.71 Mbit/s
95th percentile per-packet one-way delay: 71.414 ms
Loss rate: 2.51%

Run 4: Report of Sprout — Data Link

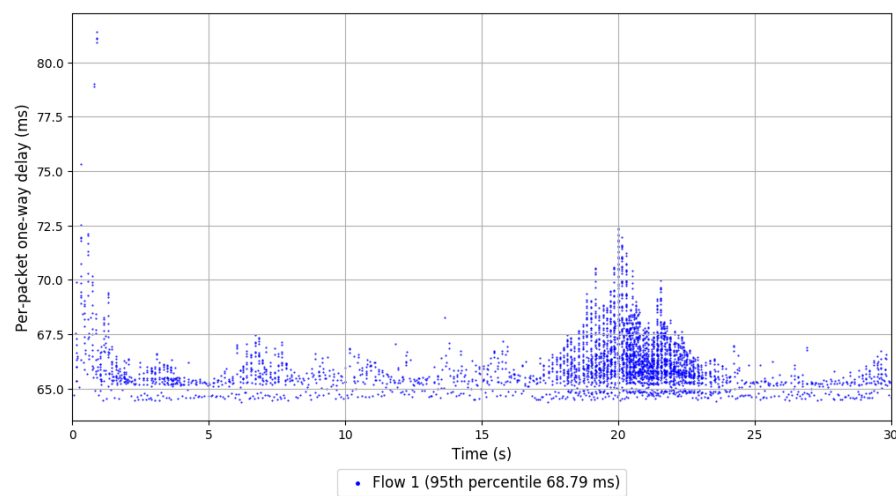
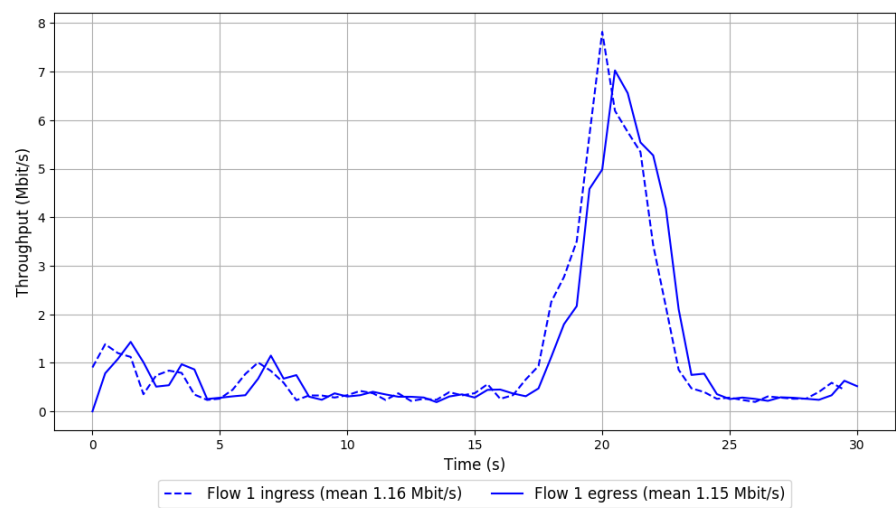


Run 5: Statistics of Sprout

Start at: 2018-06-18 11:29:54
End at: 2018-06-18 11:30:24
Local clock offset: 7.758 ms
Remote clock offset: -0.989 ms

Below is generated by plot.py at 2018-06-18 14:49:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.15 Mbit/s
95th percentile per-packet one-way delay: 68.787 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 1.15 Mbit/s
95th percentile per-packet one-way delay: 68.787 ms
Loss rate: 0.99%

Run 5: Report of Sprout — Data Link

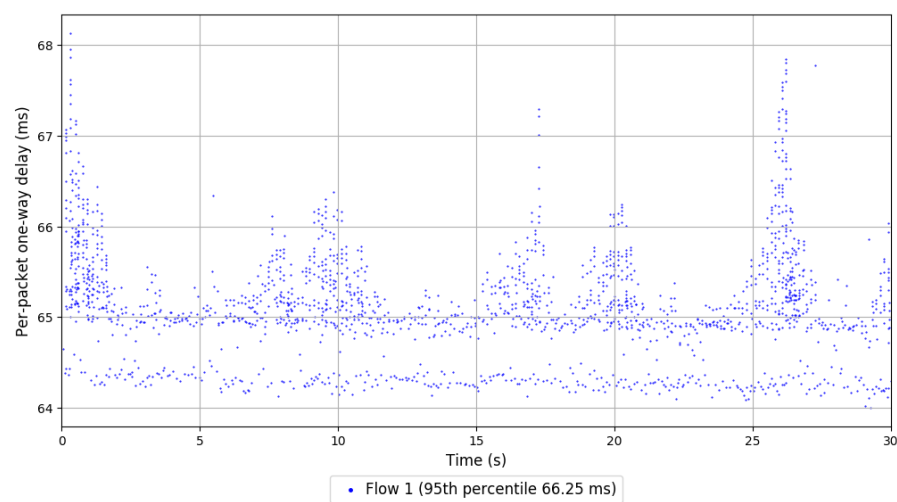
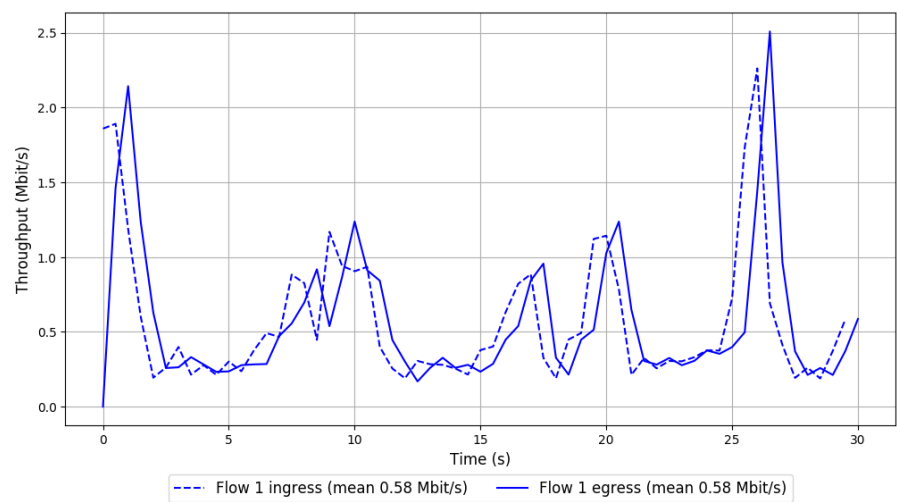


Run 6: Statistics of Sprout

Start at: 2018-06-18 12:05:13
End at: 2018-06-18 12:05:43
Local clock offset: -1.763 ms
Remote clock offset: -0.619 ms

Below is generated by plot.py at 2018-06-18 14:49:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 66.255 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 66.255 ms
Loss rate: 0.07%

Run 6: Report of Sprout — Data Link

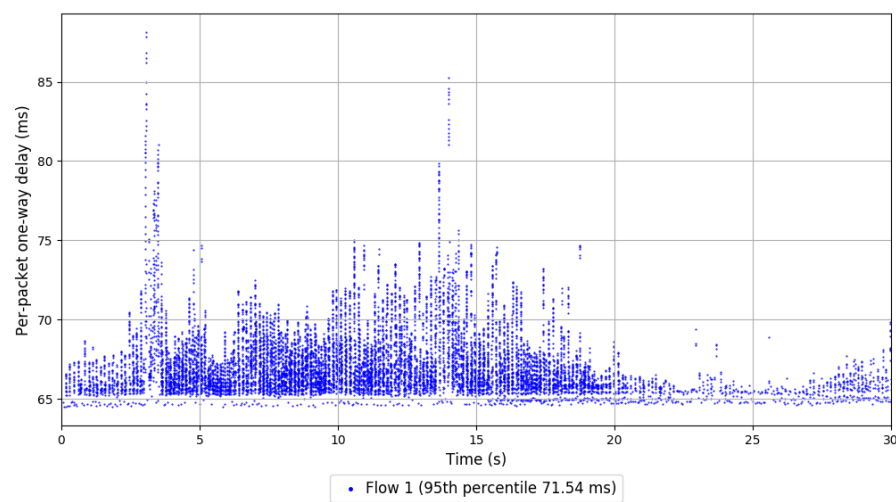
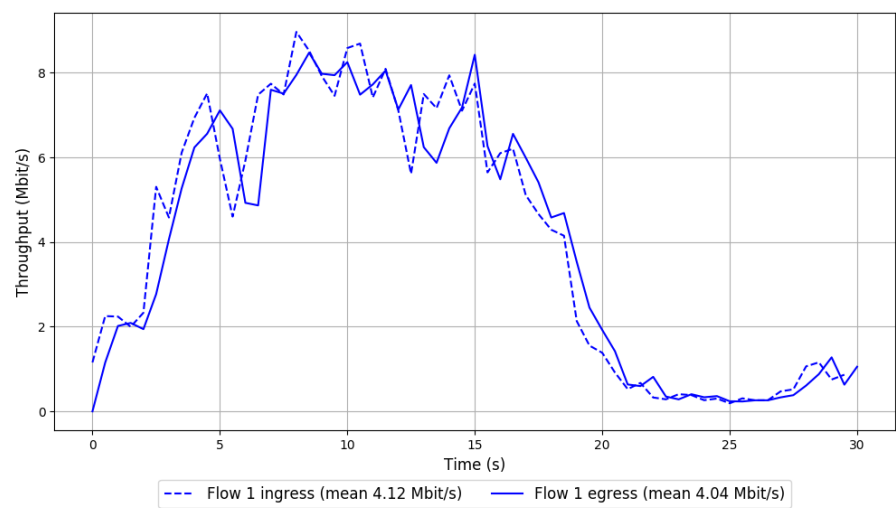


Run 7: Statistics of Sprout

Start at: 2018-06-18 12:41:37
End at: 2018-06-18 12:42:07
Local clock offset: 1.001 ms
Remote clock offset: -1.293 ms

Below is generated by plot.py at 2018-06-18 14:49:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.04 Mbit/s
95th percentile per-packet one-way delay: 71.539 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 4.04 Mbit/s
95th percentile per-packet one-way delay: 71.539 ms
Loss rate: 1.82%

Run 7: Report of Sprout — Data Link

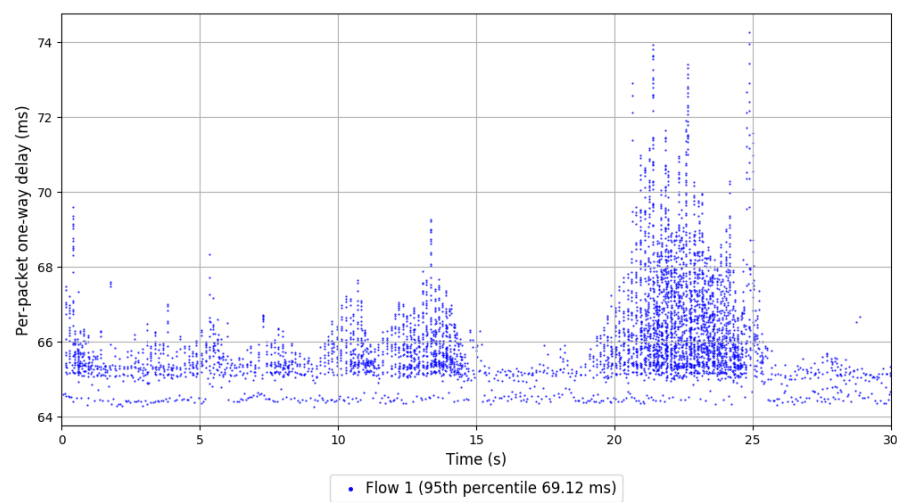
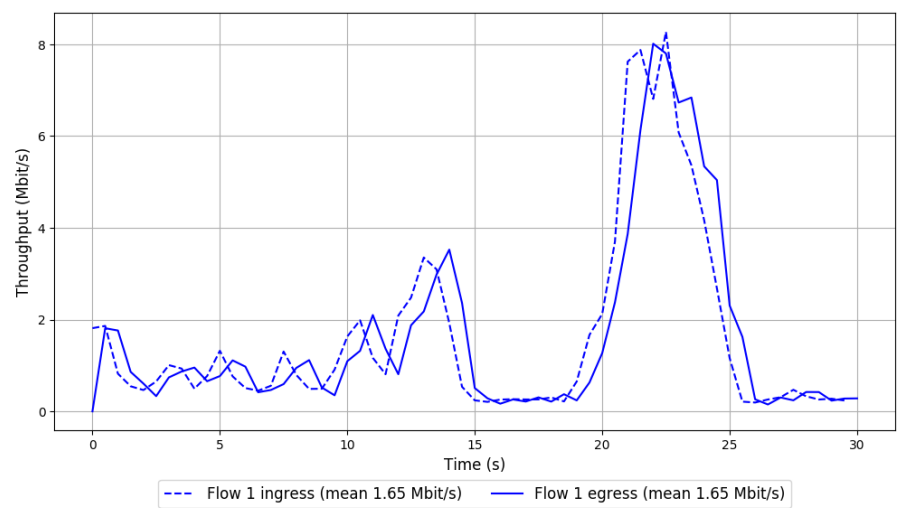


Run 8: Statistics of Sprout

Start at: 2018-06-18 13:17:20
End at: 2018-06-18 13:17:50
Local clock offset: 4.775 ms
Remote clock offset: -1.612 ms

Below is generated by plot.py at 2018-06-18 14:49:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.65 Mbit/s
95th percentile per-packet one-way delay: 69.124 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 1.65 Mbit/s
95th percentile per-packet one-way delay: 69.124 ms
Loss rate: 0.15%

Run 8: Report of Sprout — Data Link

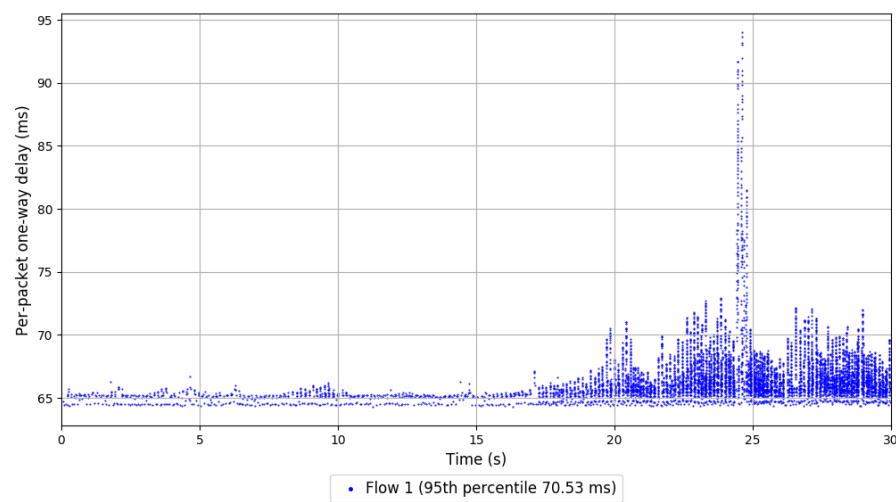
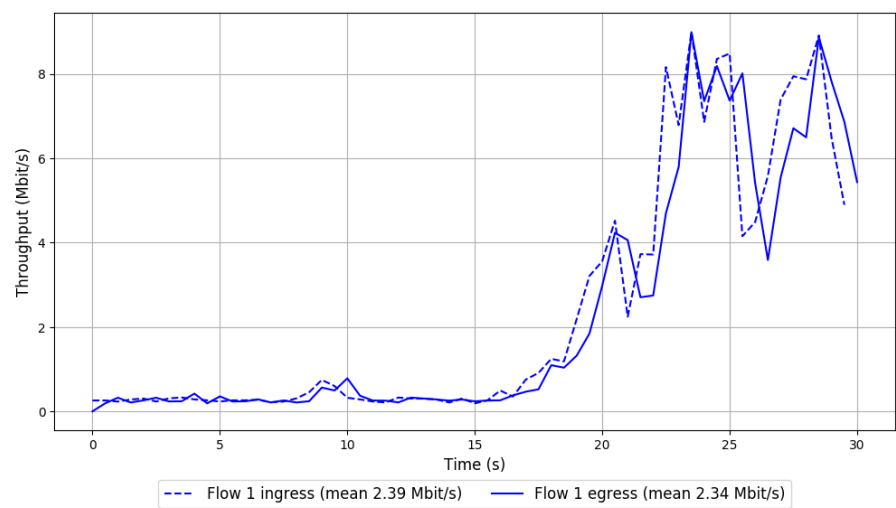


Run 9: Statistics of Sprout

Start at: 2018-06-18 13:53:21
End at: 2018-06-18 13:53:51
Local clock offset: -2.259 ms
Remote clock offset: -2.123 ms

Below is generated by plot.py at 2018-06-18 14:49:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 70.529 ms
Loss rate: 2.06%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 70.529 ms
Loss rate: 2.06%

Run 9: Report of Sprout — Data Link

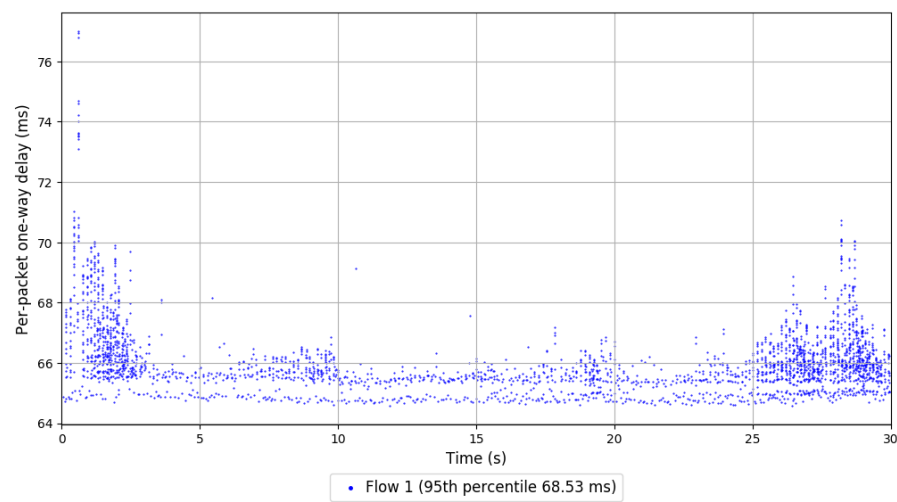
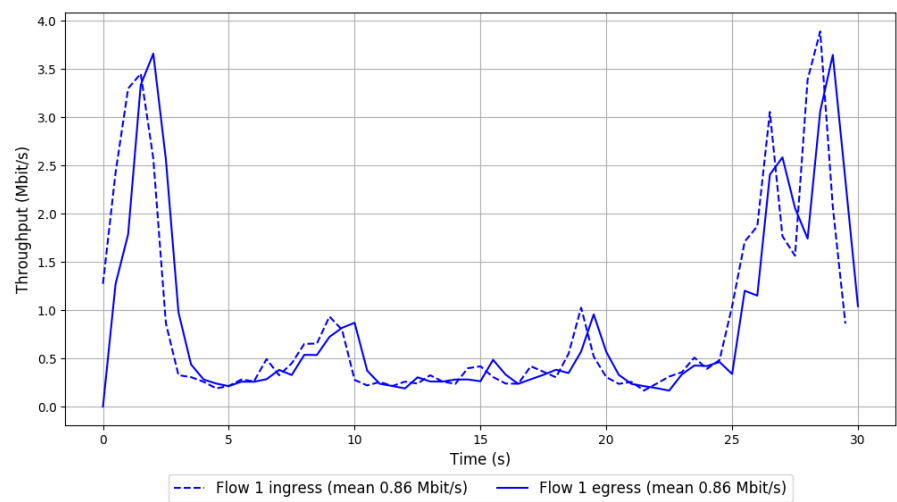


Run 10: Statistics of Sprout

Start at: 2018-06-18 14:30:09
End at: 2018-06-18 14:30:39
Local clock offset: 5.727 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2018-06-18 14:49:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.86 Mbit/s
95th percentile per-packet one-way delay: 68.528 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.86 Mbit/s
95th percentile per-packet one-way delay: 68.528 ms
Loss rate: 0.58%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-06-18 09:12:56

End at: 2018-06-18 09:13:26

Local clock offset: 2.454 ms

Remote clock offset: -0.712 ms

Below is generated by plot.py at 2018-06-18 14:49:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.27 Mbit/s

95th percentile per-packet one-way delay: 87.982 ms

Loss rate: 6.35%

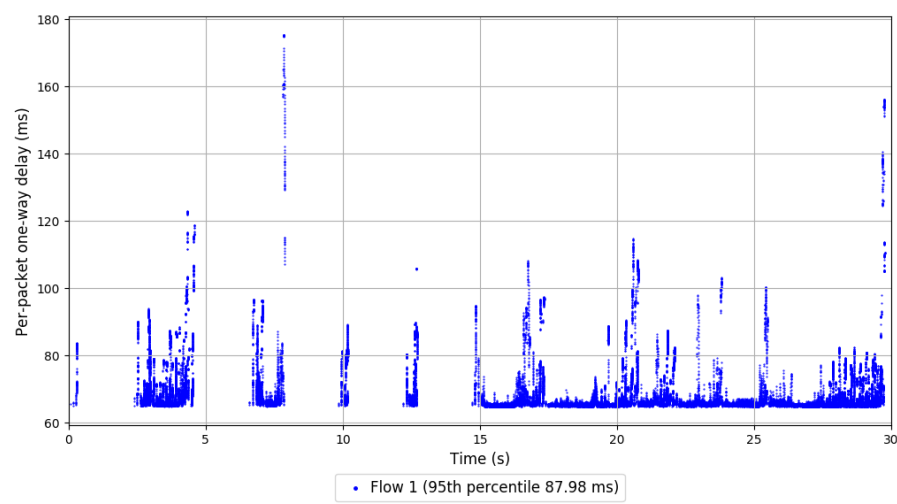
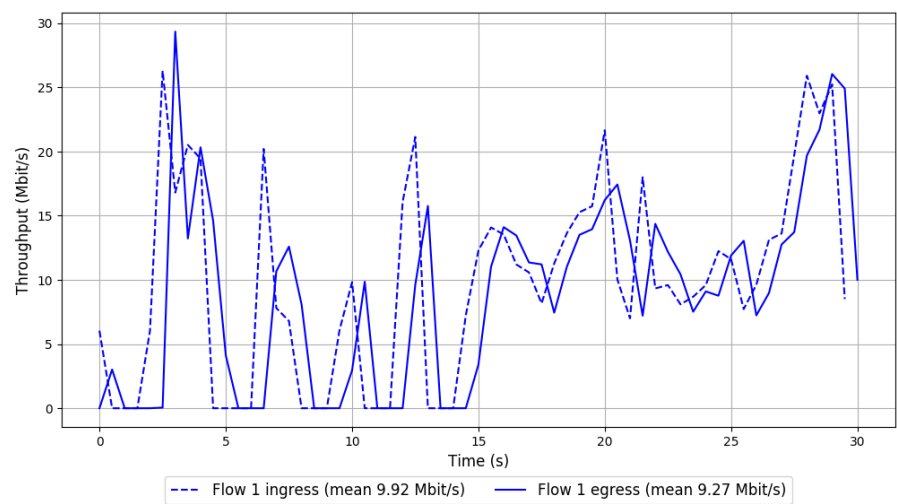
-- Flow 1:

Average throughput: 9.27 Mbit/s

95th percentile per-packet one-way delay: 87.982 ms

Loss rate: 6.35%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-06-18 09:48:04

End at: 2018-06-18 09:48:34

Local clock offset: 0.518 ms

Remote clock offset: -0.152 ms

Below is generated by plot.py at 2018-06-18 14:49:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.14 Mbit/s

95th percentile per-packet one-way delay: 65.685 ms

Loss rate: 0.71%

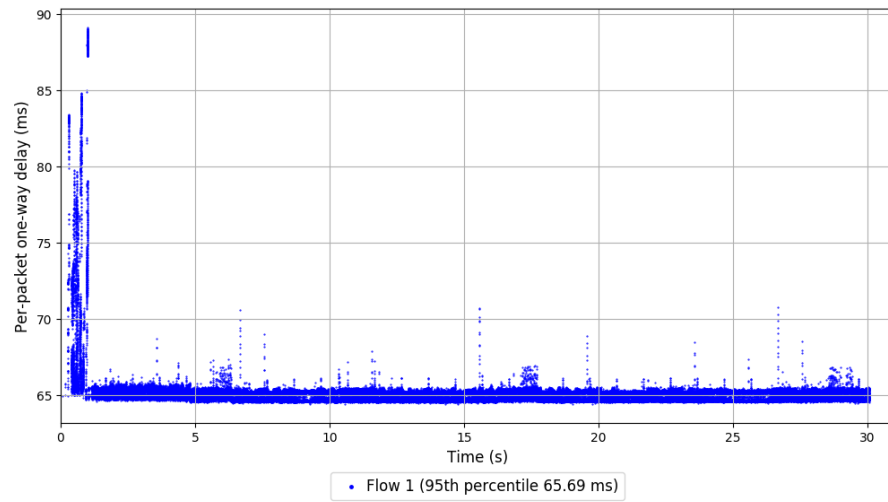
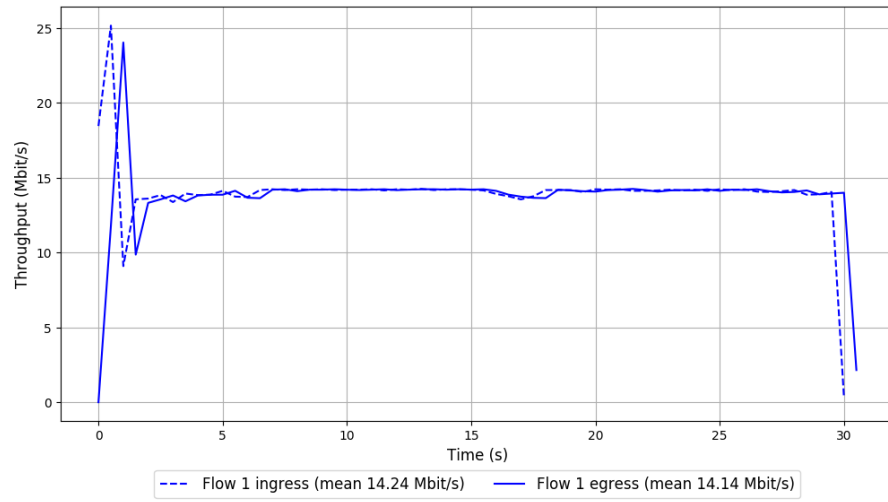
-- Flow 1:

Average throughput: 14.14 Mbit/s

95th percentile per-packet one-way delay: 65.685 ms

Loss rate: 0.71%

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

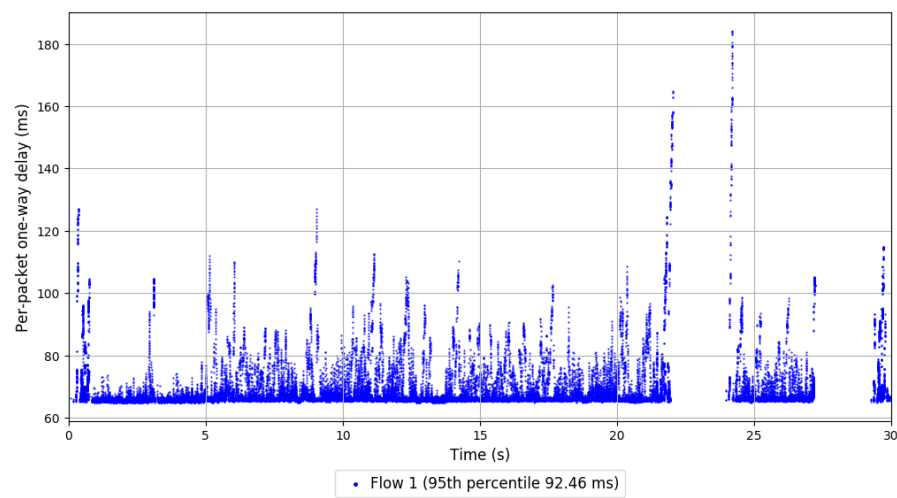
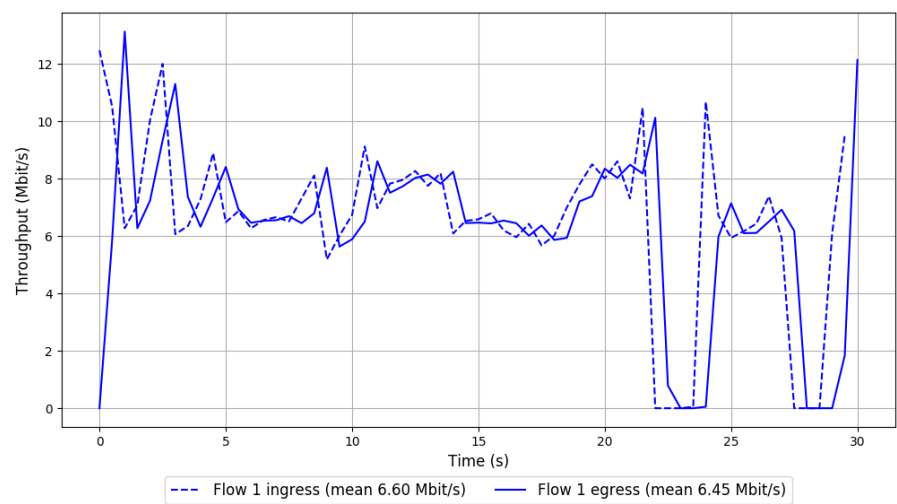


Run 3: Statistics of TaoVA-100x

Start at: 2018-06-18 10:23:20
End at: 2018-06-18 10:23:50
Local clock offset: -5.139 ms
Remote clock offset: -2.011 ms

Below is generated by plot.py at 2018-06-18 14:49:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.45 Mbit/s
95th percentile per-packet one-way delay: 92.462 ms
Loss rate: 2.32%
-- Flow 1:
Average throughput: 6.45 Mbit/s
95th percentile per-packet one-way delay: 92.462 ms
Loss rate: 2.32%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-06-18 10:57:24

End at: 2018-06-18 10:57:54

Local clock offset: 3.351 ms

Remote clock offset: -2.348 ms

Below is generated by plot.py at 2018-06-18 14:49:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.16 Mbit/s

95th percentile per-packet one-way delay: 82.043 ms

Loss rate: 3.80%

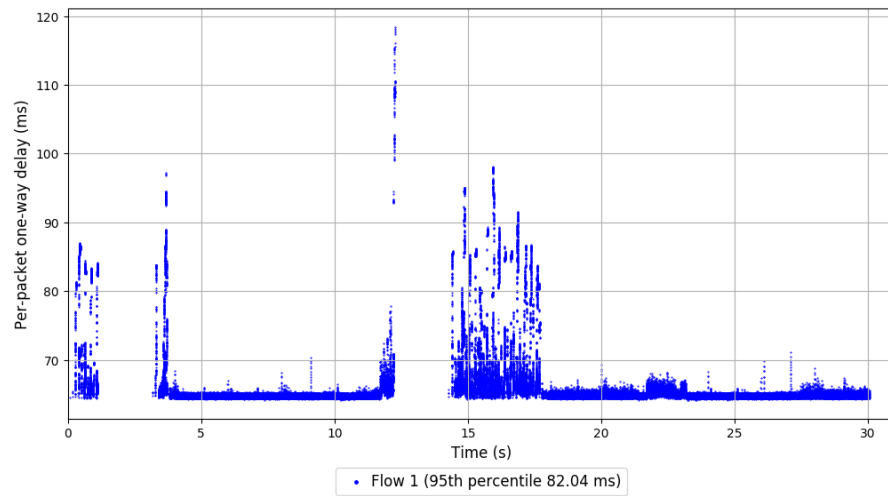
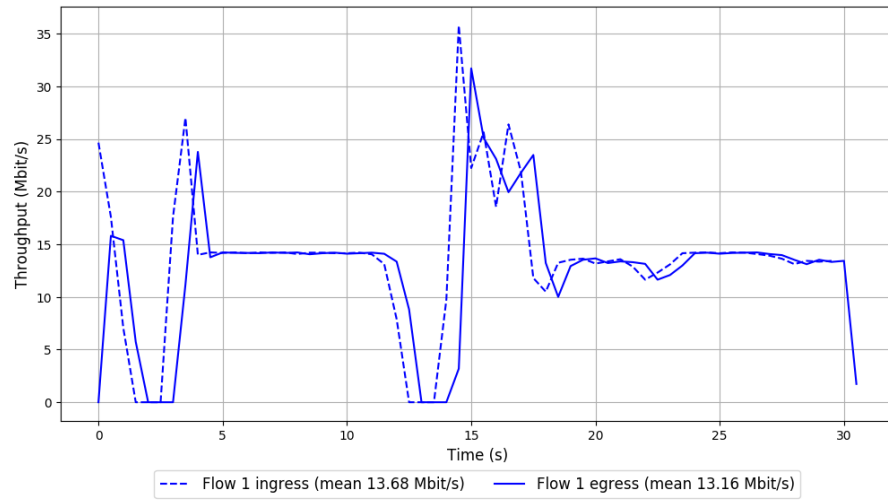
-- Flow 1:

Average throughput: 13.16 Mbit/s

95th percentile per-packet one-way delay: 82.043 ms

Loss rate: 3.80%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-06-18 11:34:20

End at: 2018-06-18 11:34:50

Local clock offset: 5.94 ms

Remote clock offset: -0.854 ms

Below is generated by plot.py at 2018-06-18 14:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.67 Mbit/s

95th percentile per-packet one-way delay: 75.375 ms

Loss rate: 1.23%

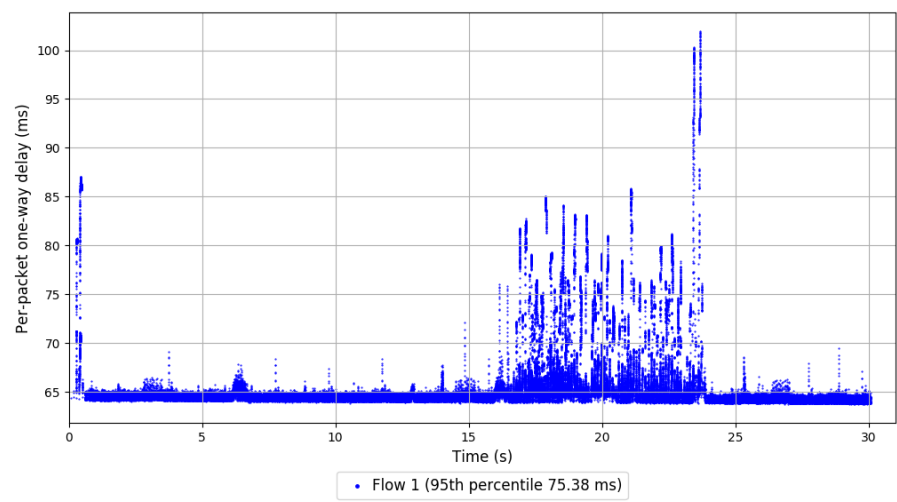
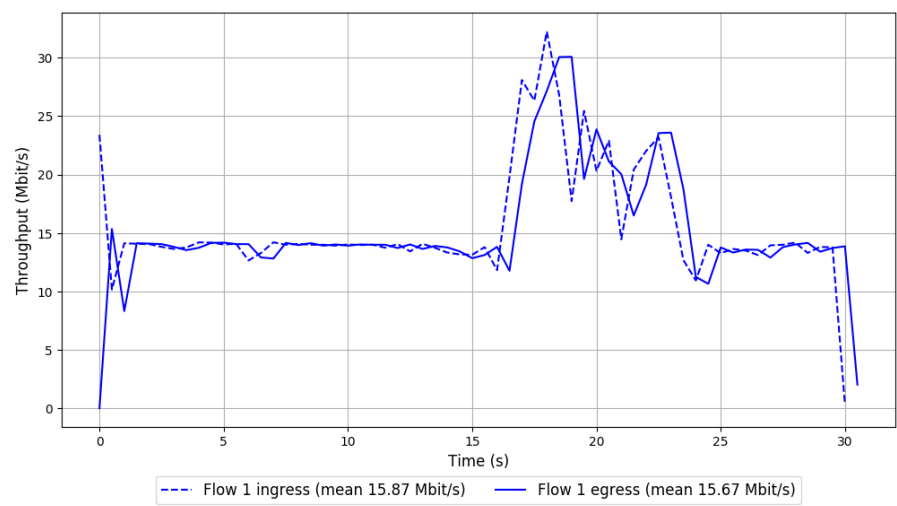
-- Flow 1:

Average throughput: 15.67 Mbit/s

95th percentile per-packet one-way delay: 75.375 ms

Loss rate: 1.23%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-06-18 12:10:03

End at: 2018-06-18 12:10:33

Local clock offset: -2.567 ms

Remote clock offset: -0.66 ms

Below is generated by plot.py at 2018-06-18 14:49:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.18 Mbit/s

95th percentile per-packet one-way delay: 76.465 ms

Loss rate: 1.09%

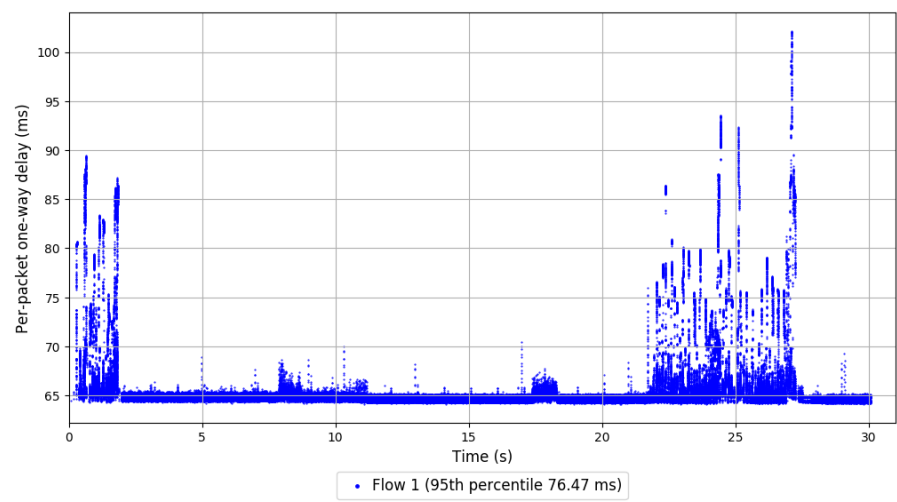
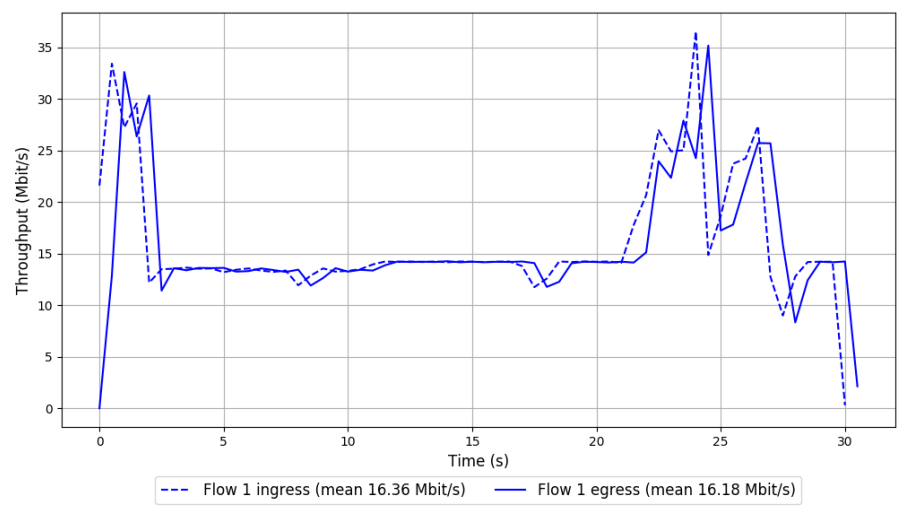
-- Flow 1:

Average throughput: 16.18 Mbit/s

95th percentile per-packet one-way delay: 76.465 ms

Loss rate: 1.09%

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

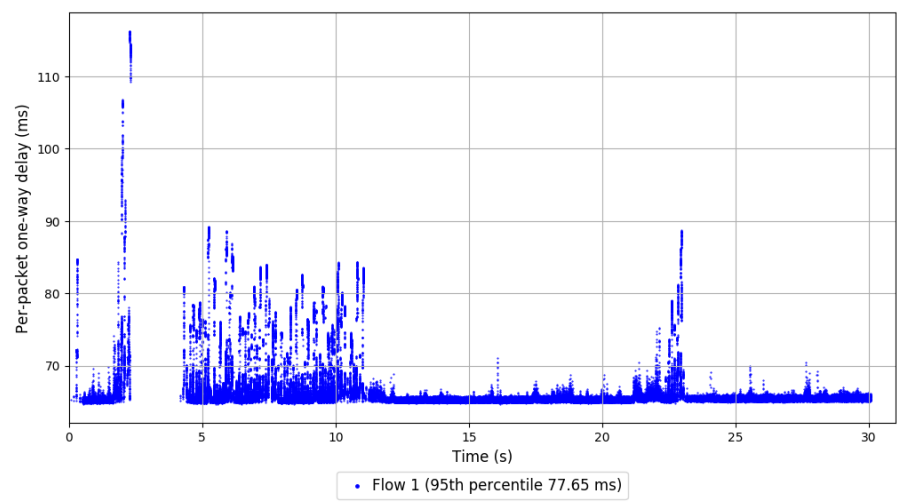
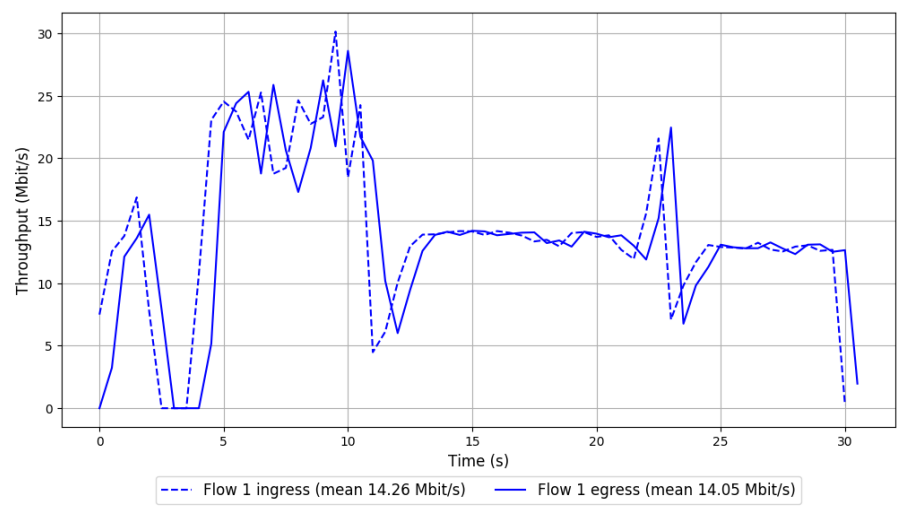


Run 7: Statistics of TaoVA-100x

Start at: 2018-06-18 12:45:44
End at: 2018-06-18 12:46:14
Local clock offset: 2.033 ms
Remote clock offset: -1.555 ms

Below is generated by plot.py at 2018-06-18 14:49:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 14.05 Mbit/s
95th percentile per-packet one-way delay: 77.646 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 14.05 Mbit/s
95th percentile per-packet one-way delay: 77.646 ms
Loss rate: 1.47%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-06-18 13:21:40

End at: 2018-06-18 13:22:10

Local clock offset: 4.96 ms

Remote clock offset: -1.553 ms

Below is generated by plot.py at 2018-06-18 14:49:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.03 Mbit/s

95th percentile per-packet one-way delay: 76.755 ms

Loss rate: 3.01%

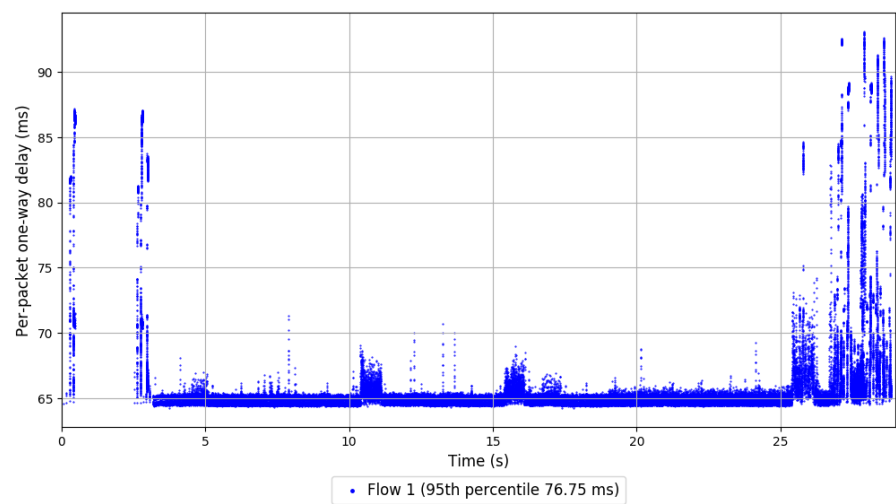
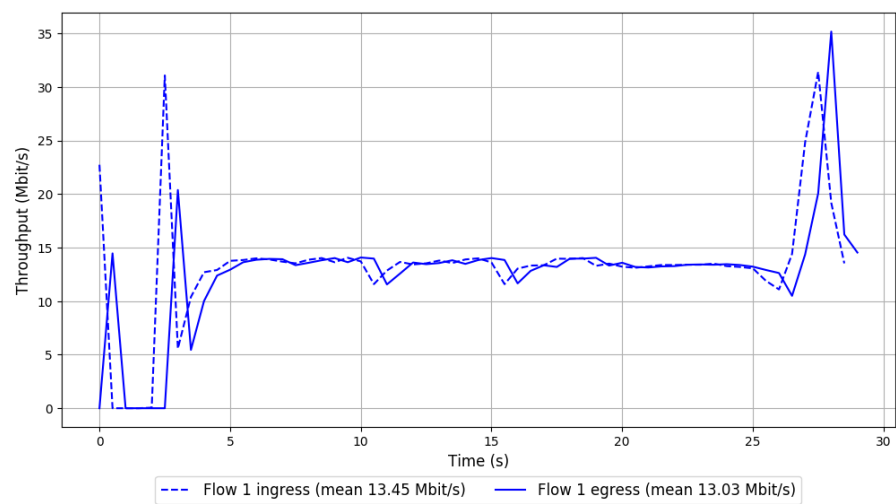
-- Flow 1:

Average throughput: 13.03 Mbit/s

95th percentile per-packet one-way delay: 76.755 ms

Loss rate: 3.01%

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

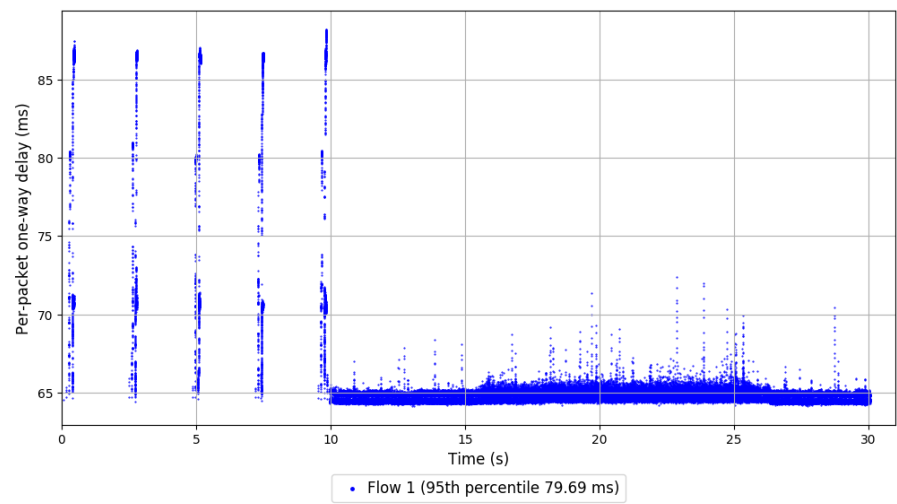
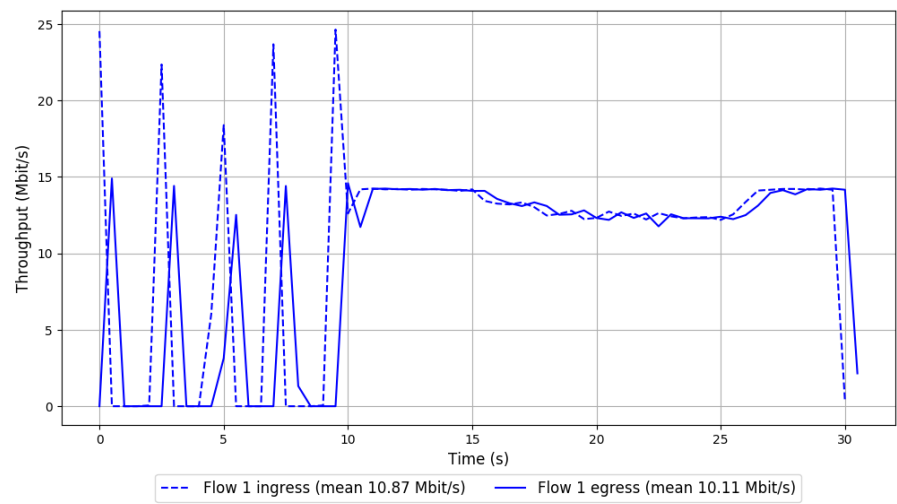


Run 9: Statistics of TaoVA-100x

Start at: 2018-06-18 13:57:51
End at: 2018-06-18 13:58:21
Local clock offset: -2.682 ms
Remote clock offset: -2.331 ms

Below is generated by plot.py at 2018-06-18 14:49:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 10.11 Mbit/s
95th percentile per-packet one-way delay: 79.695 ms
Loss rate: 6.91%
-- Flow 1:
Average throughput: 10.11 Mbit/s
95th percentile per-packet one-way delay: 79.695 ms
Loss rate: 6.91%

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

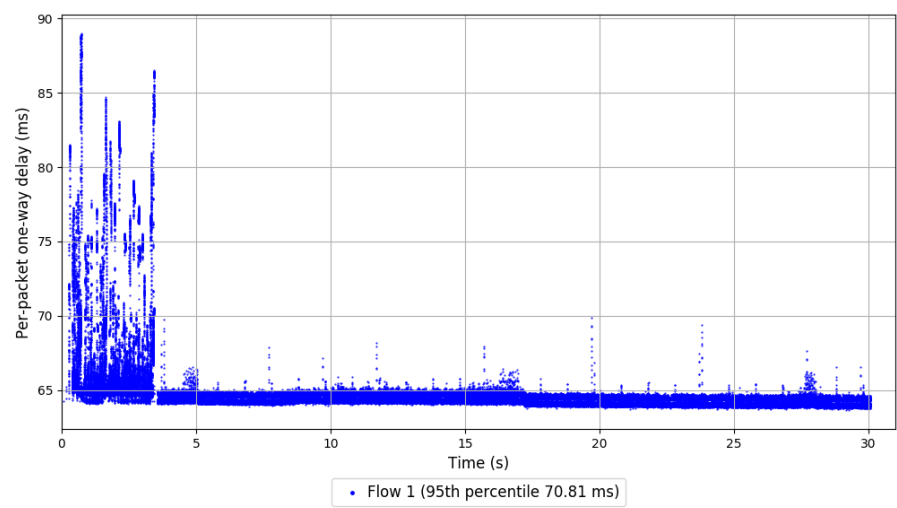
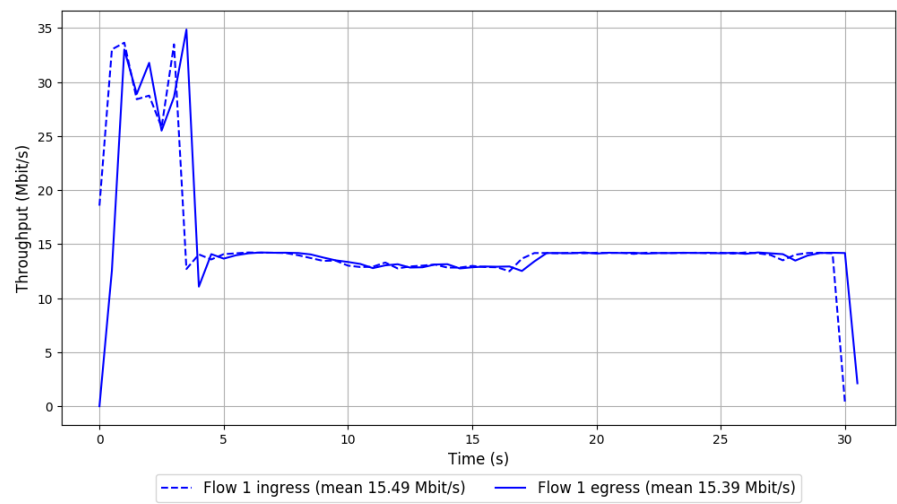


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-06-18 14:35:00
End at: 2018-06-18 14:35:30
Local clock offset: 3.351 ms
Remote clock offset: 0.3 ms

# Below is generated by plot.py at 2018-06-18 14:50:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.39 Mbit/s
95th percentile per-packet one-way delay: 70.808 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 15.39 Mbit/s
95th percentile per-packet one-way delay: 70.808 ms
Loss rate: 0.68%
```

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

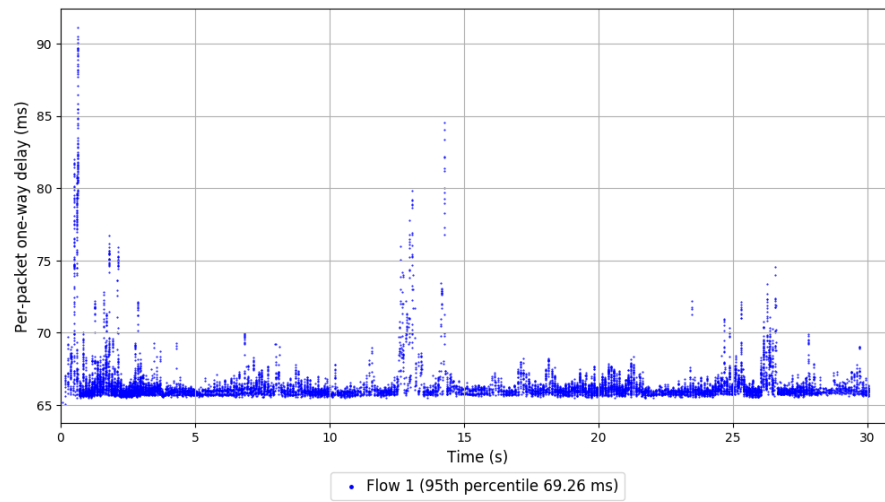
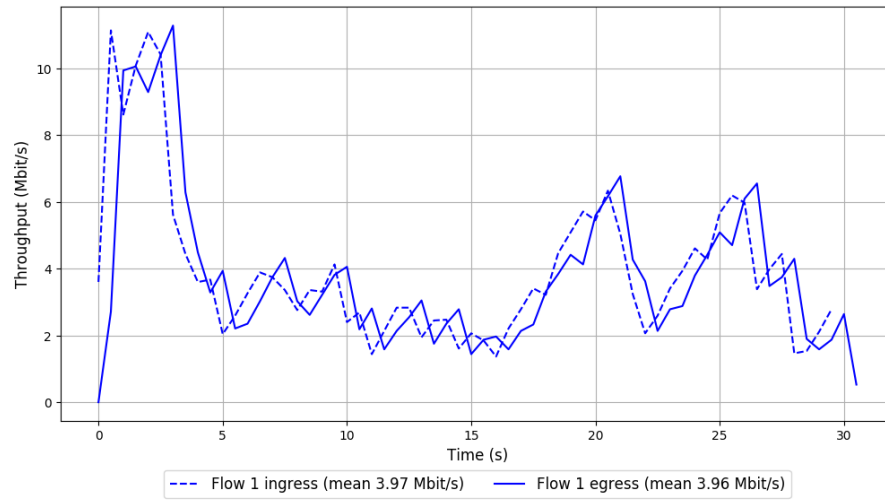


Run 1: Statistics of TCP Vegas

Start at: 2018-06-18 09:07:16
End at: 2018-06-18 09:07:46
Local clock offset: 2.155 ms
Remote clock offset: -1.346 ms

Below is generated by plot.py at 2018-06-18 14:50:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.96 Mbit/s
95th percentile per-packet one-way delay: 69.257 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 3.96 Mbit/s
95th percentile per-packet one-way delay: 69.257 ms
Loss rate: 0.41%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-06-18 09:42:23

End at: 2018-06-18 09:42:53

Local clock offset: 1.079 ms

Remote clock offset: 0.671 ms

Below is generated by plot.py at 2018-06-18 14:50:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.74 Mbit/s

95th percentile per-packet one-way delay: 66.524 ms

Loss rate: 0.46%

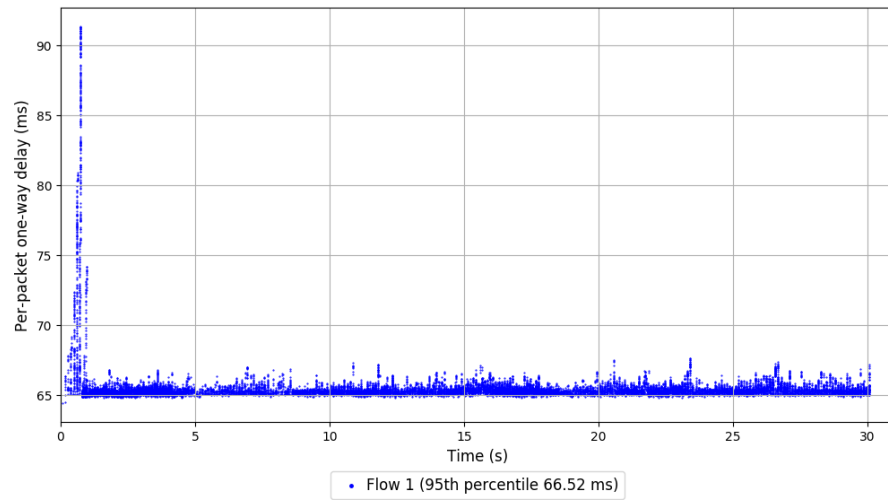
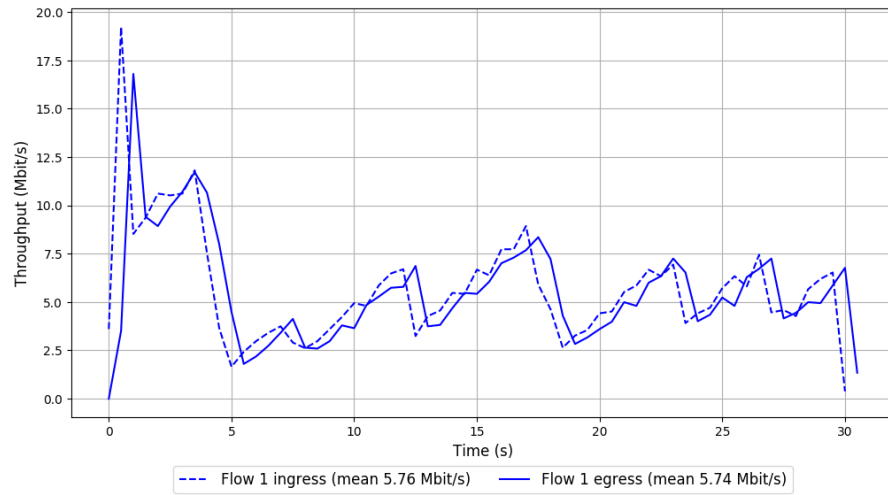
-- Flow 1:

Average throughput: 5.74 Mbit/s

95th percentile per-packet one-way delay: 66.524 ms

Loss rate: 0.46%

Run 2: Report of TCP Vegas — Data Link

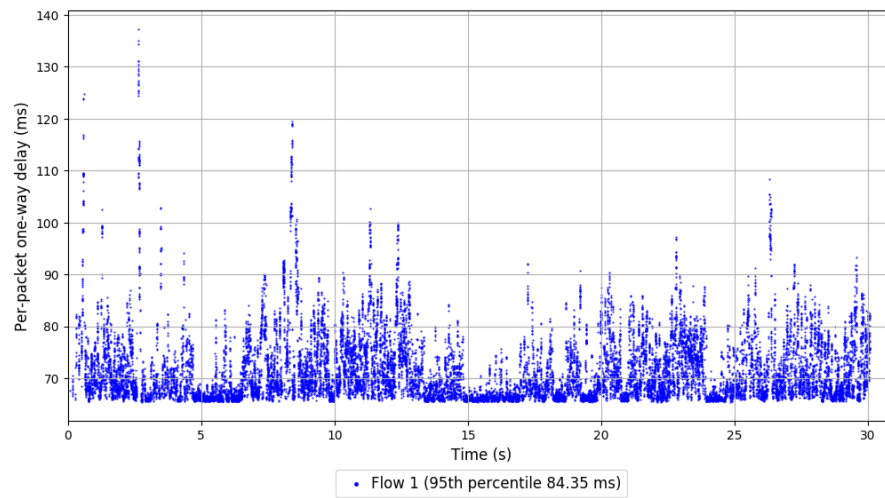
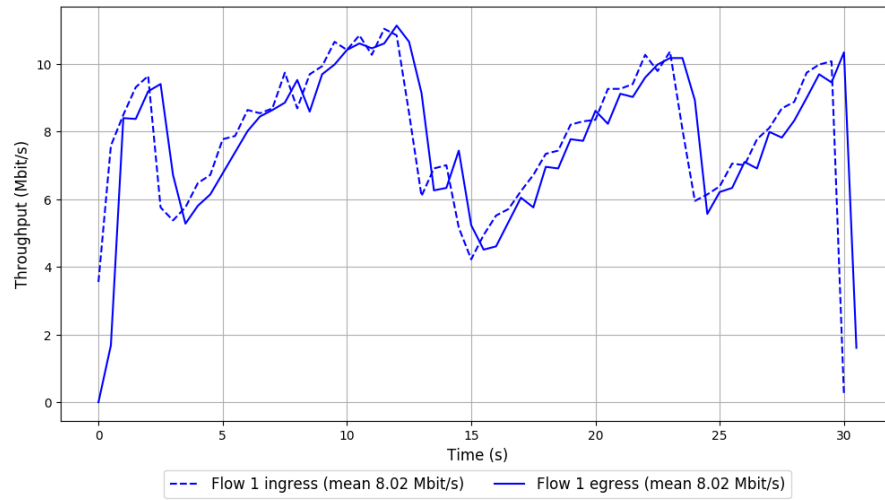


Run 3: Statistics of TCP Vegas

Start at: 2018-06-18 10:18:38
End at: 2018-06-18 10:19:08
Local clock offset: -4.556 ms
Remote clock offset: -1.454 ms

Below is generated by plot.py at 2018-06-18 14:50:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 8.02 Mbit/s
95th percentile per-packet one-way delay: 84.354 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 8.02 Mbit/s
95th percentile per-packet one-way delay: 84.354 ms
Loss rate: 0.08%

Run 3: Report of TCP Vegas — Data Link

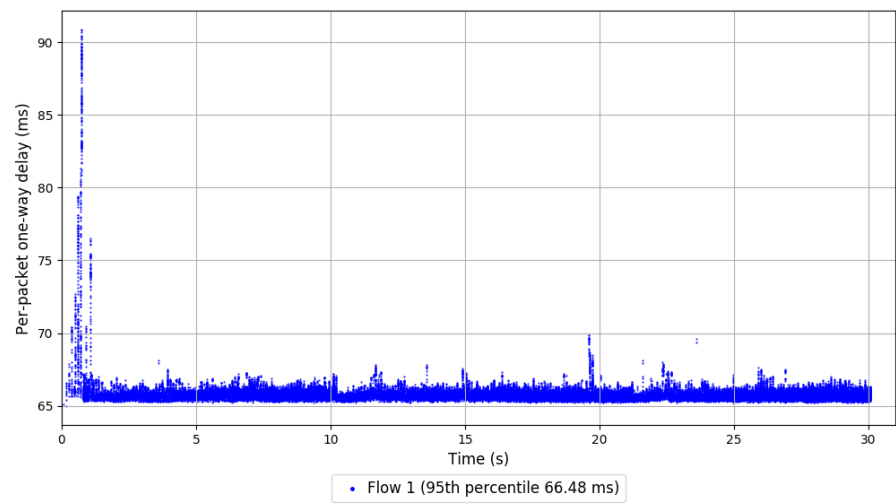
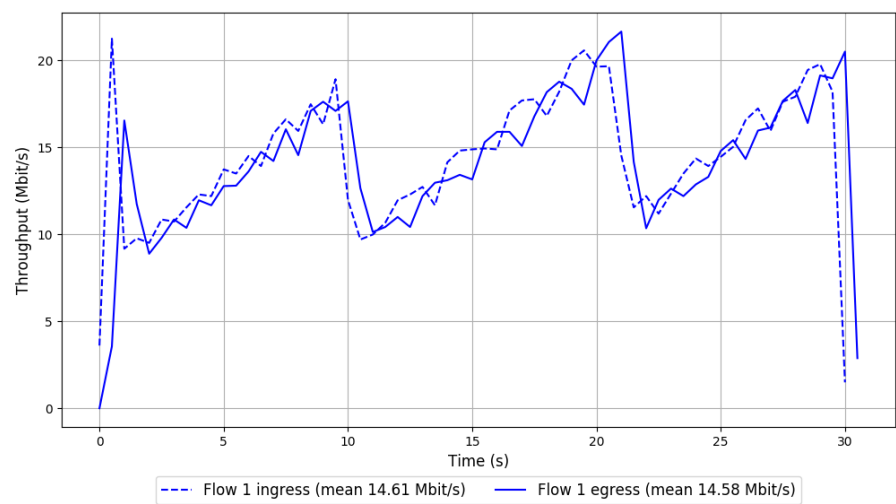


Run 4: Statistics of TCP Vegas

Start at: 2018-06-18 10:51:28
End at: 2018-06-18 10:51:58
Local clock offset: 2.432 ms
Remote clock offset: -3.358 ms

Below is generated by plot.py at 2018-06-18 14:50:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 14.58 Mbit/s
95th percentile per-packet one-way delay: 66.482 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 14.58 Mbit/s
95th percentile per-packet one-way delay: 66.482 ms
Loss rate: 0.18%

Run 4: Report of TCP Vegas — Data Link

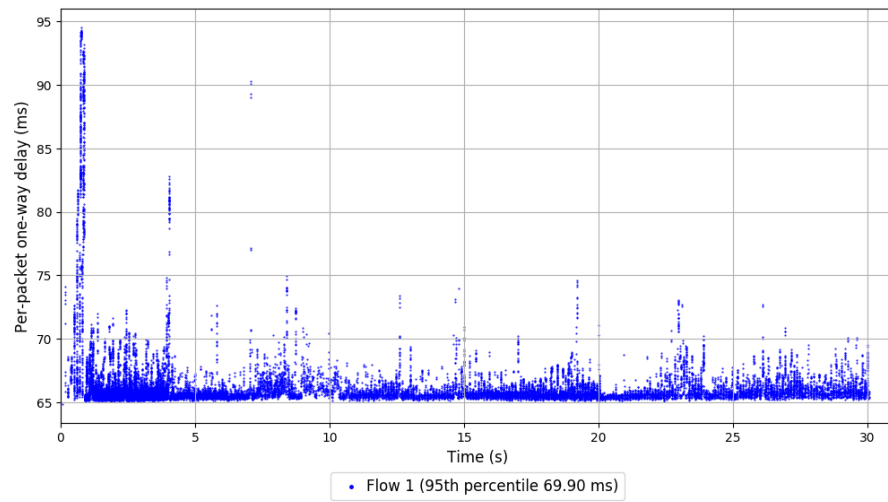
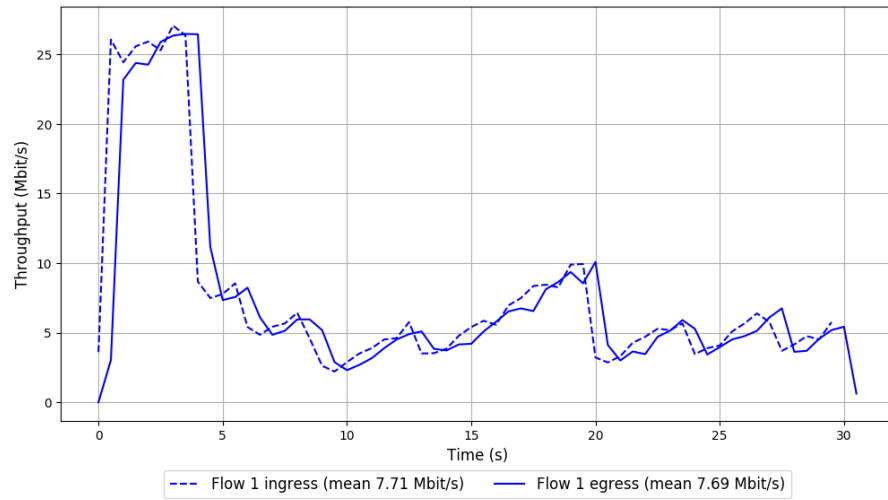


Run 5: Statistics of TCP Vegas

Start at: 2018-06-18 11:28:25
End at: 2018-06-18 11:28:55
Local clock offset: 7.495 ms
Remote clock offset: -1.058 ms

Below is generated by plot.py at 2018-06-18 14:50:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.69 Mbit/s
95th percentile per-packet one-way delay: 69.900 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 7.69 Mbit/s
95th percentile per-packet one-way delay: 69.900 ms
Loss rate: 0.30%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-06-18 12:03:25

End at: 2018-06-18 12:03:55

Local clock offset: -1.478 ms

Remote clock offset: -0.59 ms

Below is generated by plot.py at 2018-06-18 14:50:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.25 Mbit/s

95th percentile per-packet one-way delay: 70.660 ms

Loss rate: 0.58%

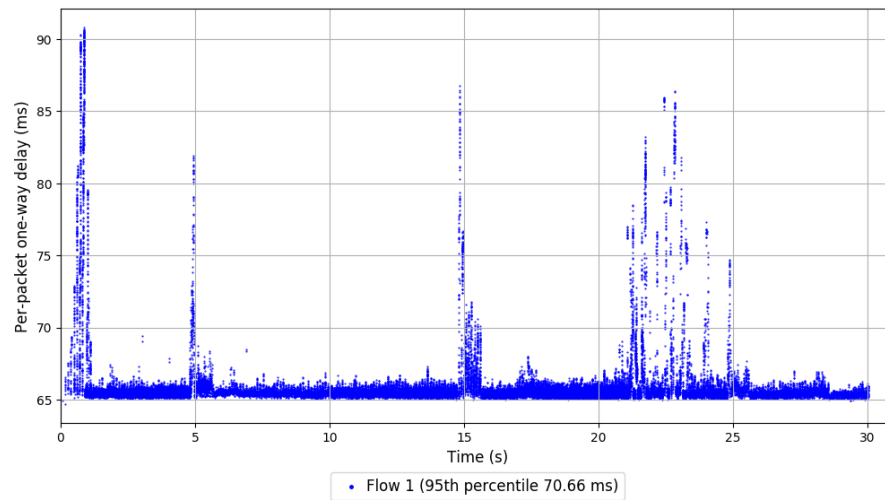
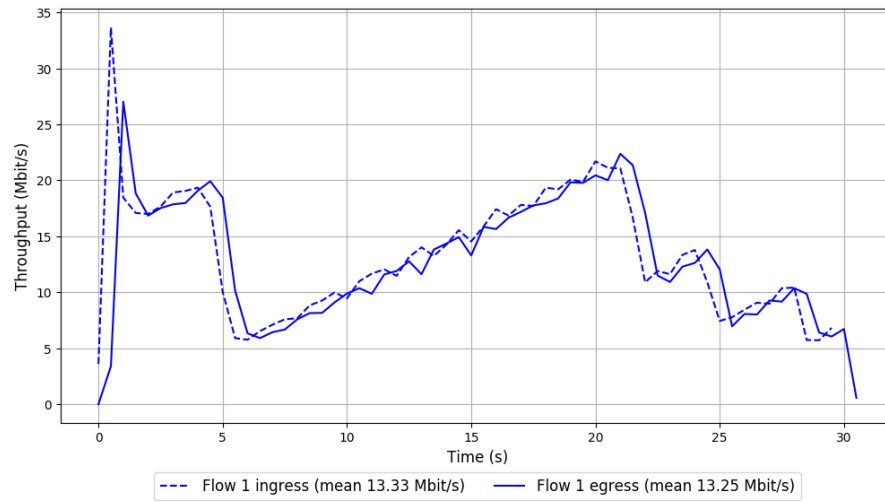
-- Flow 1:

Average throughput: 13.25 Mbit/s

95th percentile per-packet one-way delay: 70.660 ms

Loss rate: 0.58%

Run 6: Report of TCP Vegas — Data Link

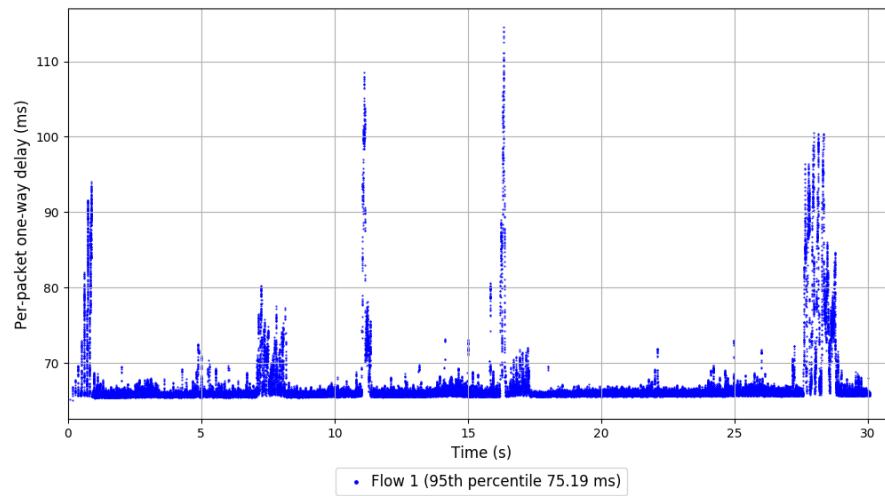
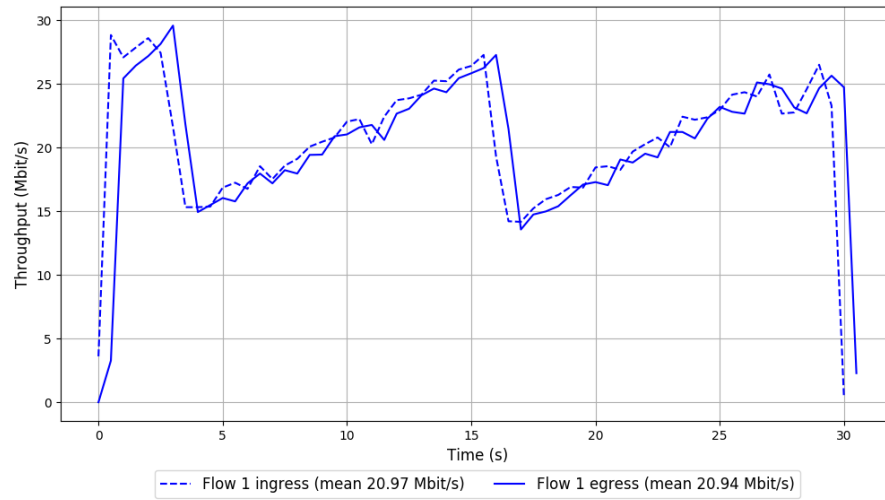


Run 7: Statistics of TCP Vegas

Start at: 2018-06-18 12:39:34
End at: 2018-06-18 12:40:04
Local clock offset: 0.112 ms
Remote clock offset: -1.195 ms

Below is generated by plot.py at 2018-06-18 14:50:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.94 Mbit/s
95th percentile per-packet one-way delay: 75.194 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 20.94 Mbit/s
95th percentile per-packet one-way delay: 75.194 ms
Loss rate: 0.14%

Run 7: Report of TCP Vegas — Data Link

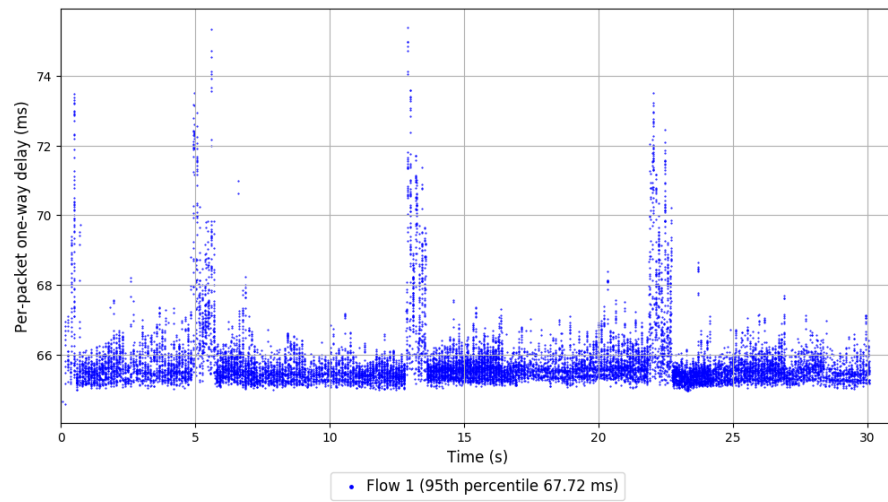
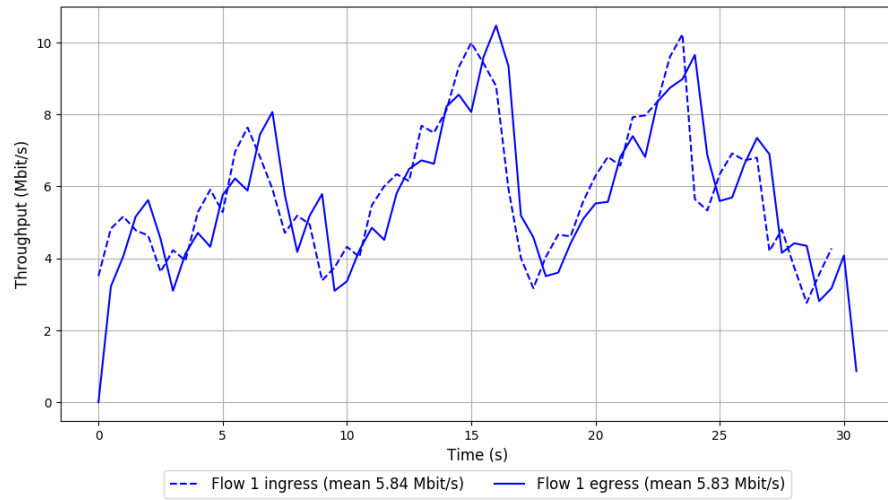


Run 8: Statistics of TCP Vegas

Start at: 2018-06-18 13:15:53
End at: 2018-06-18 13:16:23
Local clock offset: 4.525 ms
Remote clock offset: -1.635 ms

Below is generated by plot.py at 2018-06-18 14:50:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.83 Mbit/s
95th percentile per-packet one-way delay: 67.717 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 5.83 Mbit/s
95th percentile per-packet one-way delay: 67.717 ms
Loss rate: 0.08%

Run 8: Report of TCP Vegas — Data Link

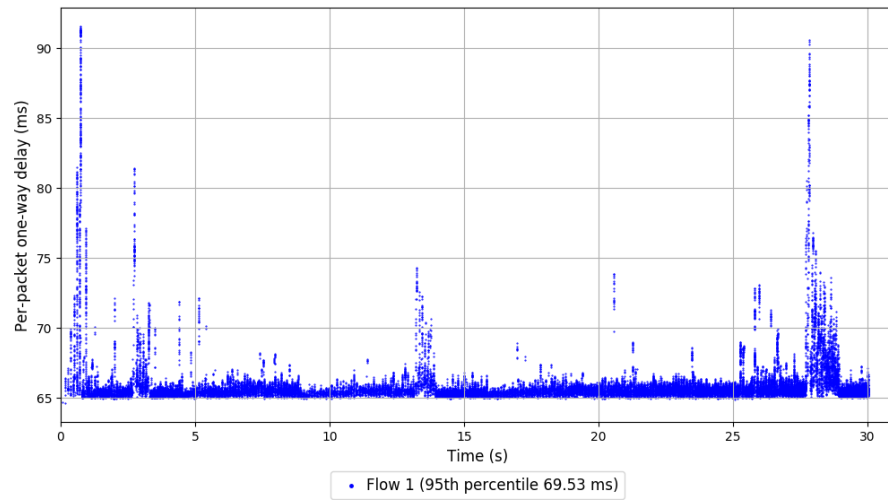
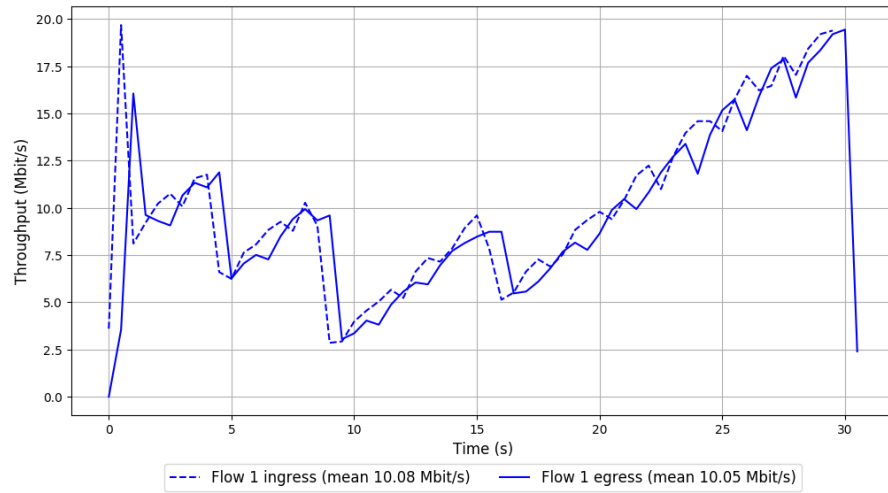


Run 9: Statistics of TCP Vegas

Start at: 2018-06-18 13:51:43
End at: 2018-06-18 13:52:13
Local clock offset: -2.06 ms
Remote clock offset: -2.056 ms

Below is generated by plot.py at 2018-06-18 14:50:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 10.05 Mbit/s
95th percentile per-packet one-way delay: 69.533 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 10.05 Mbit/s
95th percentile per-packet one-way delay: 69.533 ms
Loss rate: 0.25%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-06-18 14:28:35

End at: 2018-06-18 14:29:05

Local clock offset: 5.468 ms

Remote clock offset: -0.235 ms

Below is generated by plot.py at 2018-06-18 14:50:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.27 Mbit/s

95th percentile per-packet one-way delay: 67.909 ms

Loss rate: 0.22%

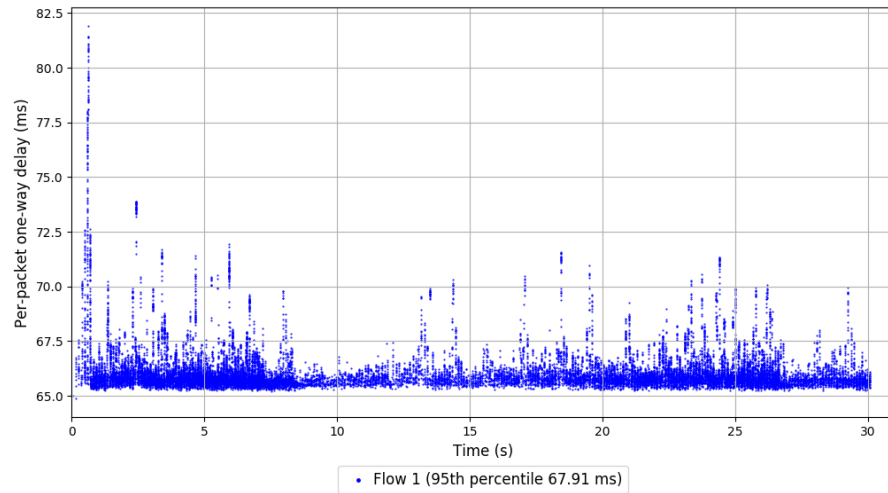
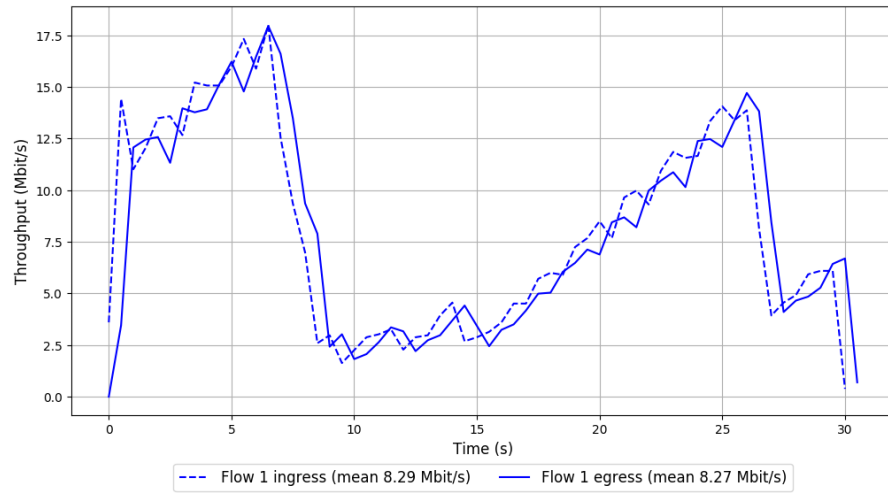
-- Flow 1:

Average throughput: 8.27 Mbit/s

95th percentile per-packet one-way delay: 67.909 ms

Loss rate: 0.22%

Run 10: Report of TCP Vegas — Data Link

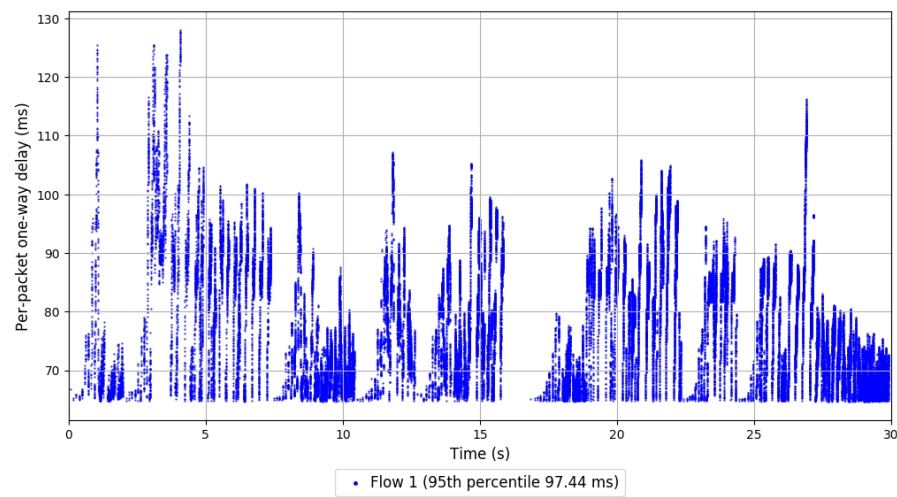
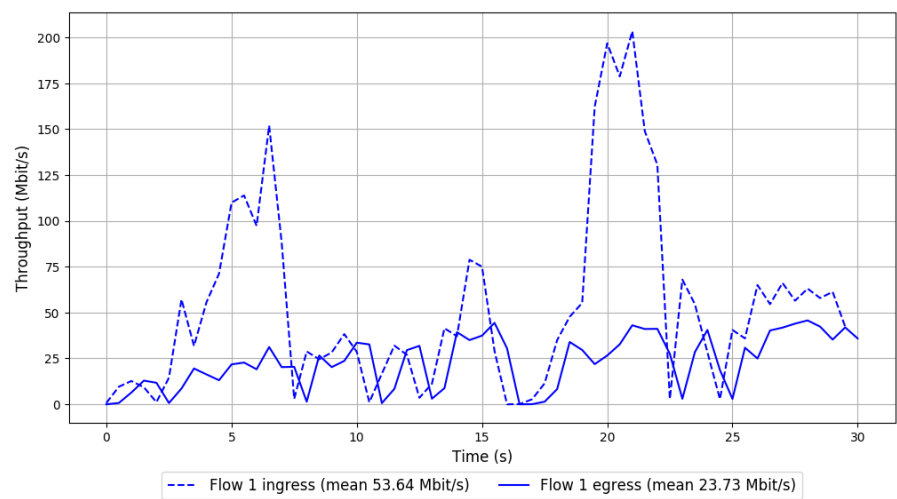


Run 1: Statistics of Verus

Start at: 2018-06-18 09:17:44
End at: 2018-06-18 09:18:14
Local clock offset: 2.741 ms
Remote clock offset: -0.385 ms

Below is generated by plot.py at 2018-06-18 14:50:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 23.73 Mbit/s
95th percentile per-packet one-way delay: 97.435 ms
Loss rate: 55.77%
-- Flow 1:
Average throughput: 23.73 Mbit/s
95th percentile per-packet one-way delay: 97.435 ms
Loss rate: 55.77%

Run 1: Report of Verus — Data Link

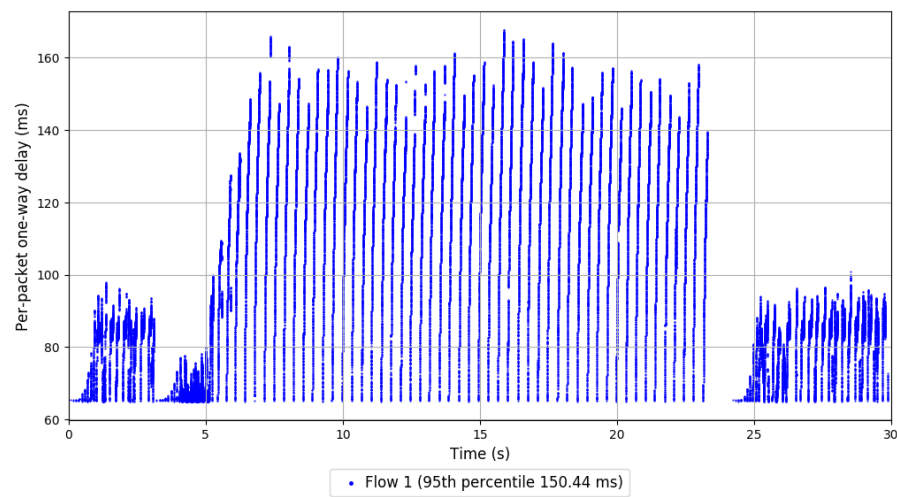
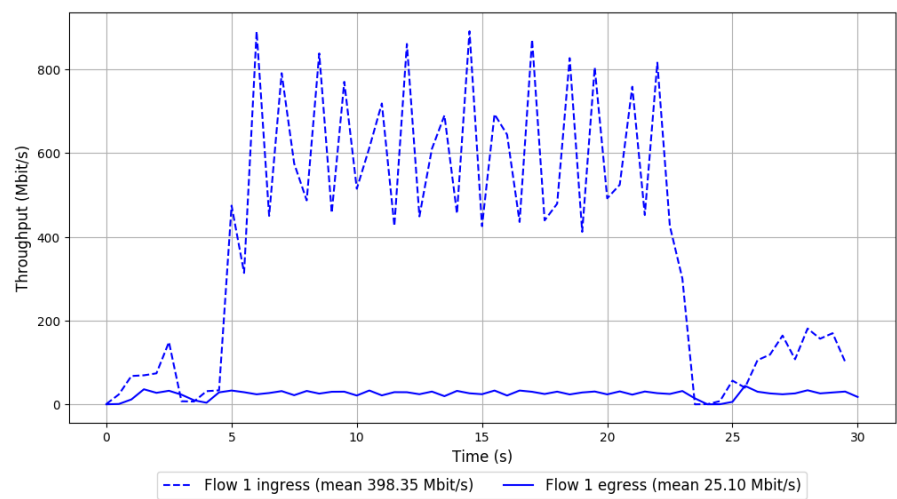


Run 2: Statistics of Verus

Start at: 2018-06-18 09:53:27
End at: 2018-06-18 09:53:57
Local clock offset: 0.171 ms
Remote clock offset: -0.614 ms

Below is generated by plot.py at 2018-06-18 14:51:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 25.10 Mbit/s
95th percentile per-packet one-way delay: 150.444 ms
Loss rate: 93.70%
-- Flow 1:
Average throughput: 25.10 Mbit/s
95th percentile per-packet one-way delay: 150.444 ms
Loss rate: 93.70%

Run 2: Report of Verus — Data Link

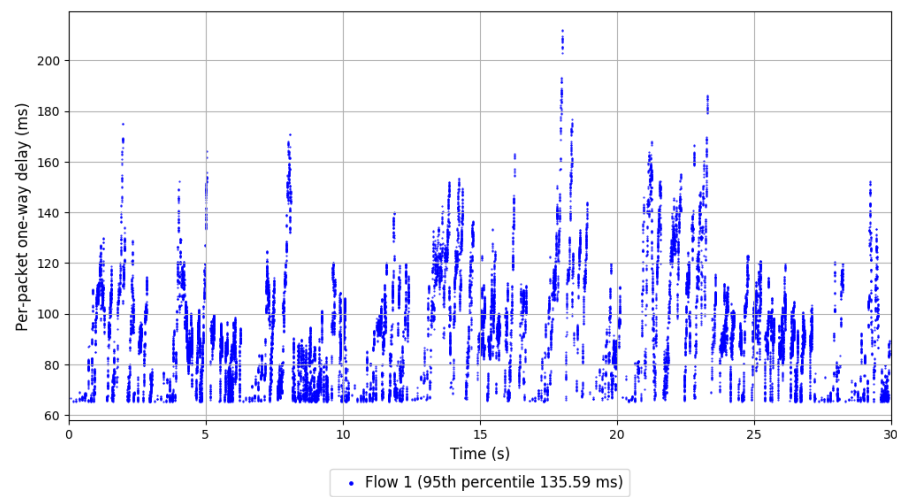
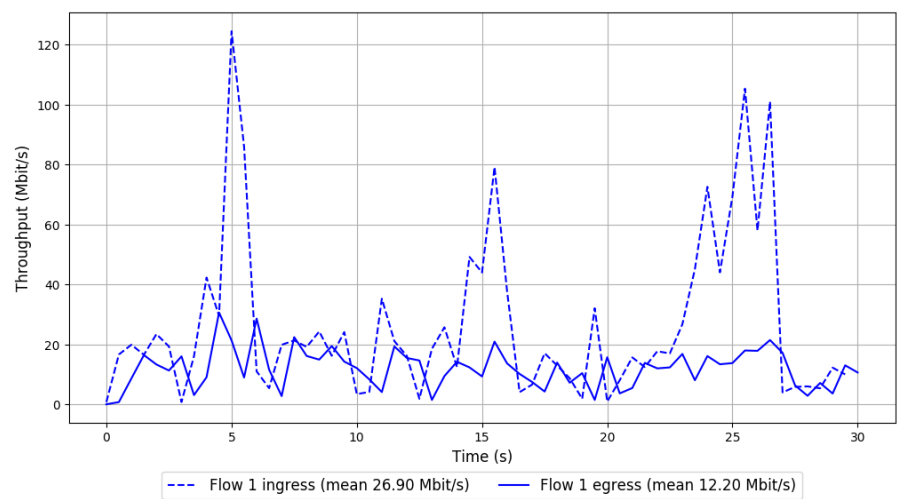


Run 3: Statistics of Verus

Start at: 2018-06-18 10:26:43
End at: 2018-06-18 10:27:13
Local clock offset: -5.549 ms
Remote clock offset: -2.378 ms

Below is generated by plot.py at 2018-06-18 14:51:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.20 Mbit/s
95th percentile per-packet one-way delay: 135.592 ms
Loss rate: 54.66%
-- Flow 1:
Average throughput: 12.20 Mbit/s
95th percentile per-packet one-way delay: 135.592 ms
Loss rate: 54.66%

Run 3: Report of Verus — Data Link

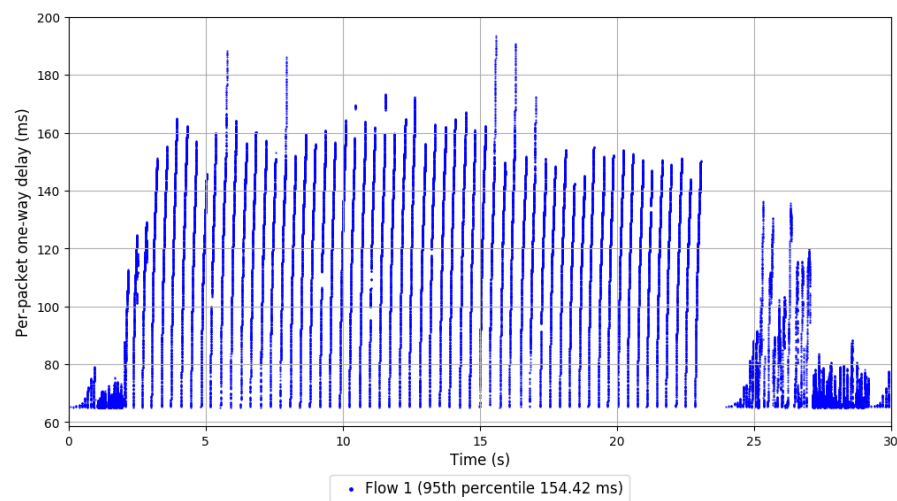
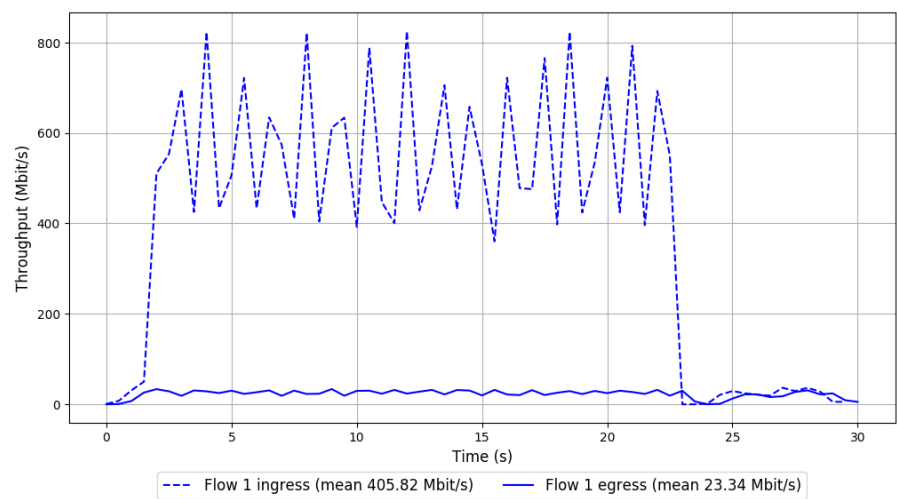


Run 4: Statistics of Verus

Start at: 2018-06-18 11:02:30
End at: 2018-06-18 11:03:00
Local clock offset: 3.721 ms
Remote clock offset: -1.918 ms

Below is generated by plot.py at 2018-06-18 14:51:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 23.34 Mbit/s
95th percentile per-packet one-way delay: 154.417 ms
Loss rate: 94.25%
-- Flow 1:
Average throughput: 23.34 Mbit/s
95th percentile per-packet one-way delay: 154.417 ms
Loss rate: 94.25%

Run 4: Report of Verus — Data Link

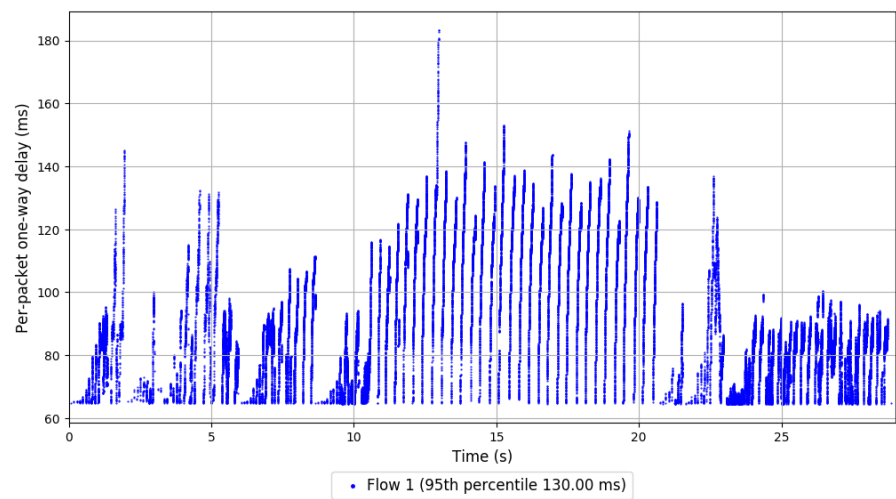
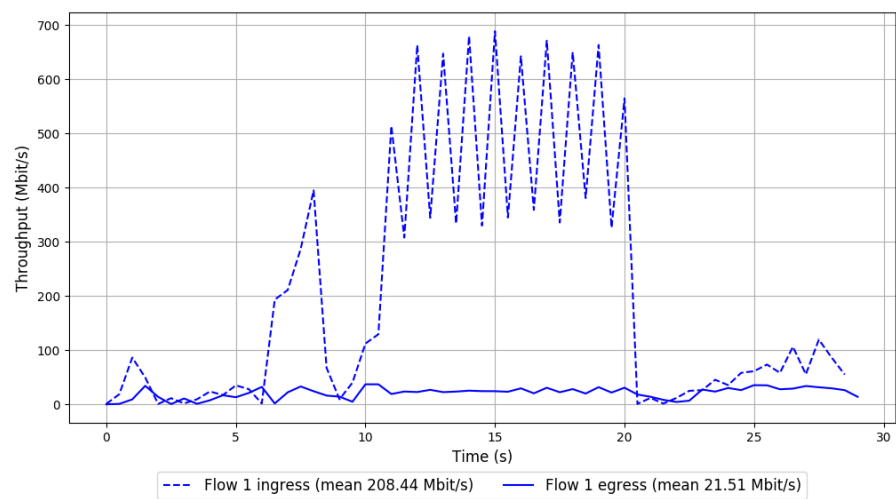


Run 5: Statistics of Verus

Start at: 2018-06-18 11:39:32
End at: 2018-06-18 11:40:02
Local clock offset: 3.001 ms
Remote clock offset: -0.708 ms

Below is generated by plot.py at 2018-06-18 14:51:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 21.51 Mbit/s
95th percentile per-packet one-way delay: 130.000 ms
Loss rate: 89.68%
-- Flow 1:
Average throughput: 21.51 Mbit/s
95th percentile per-packet one-way delay: 130.000 ms
Loss rate: 89.68%

Run 5: Report of Verus — Data Link

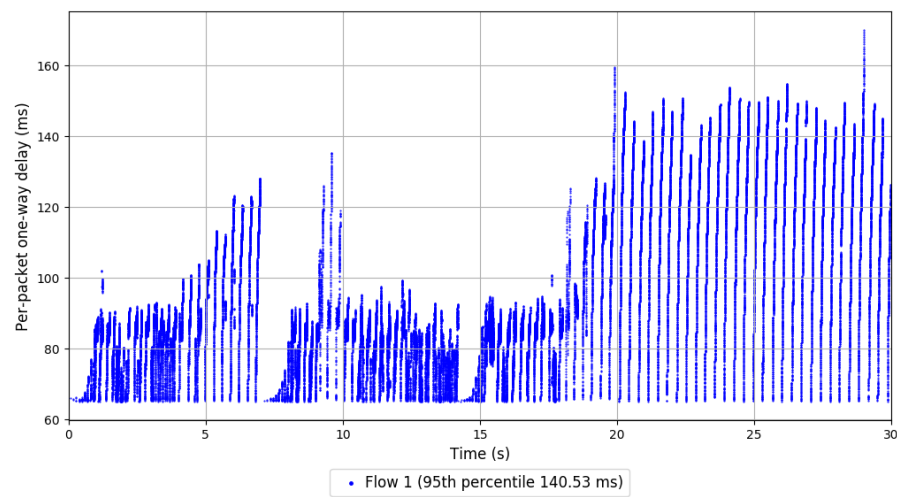
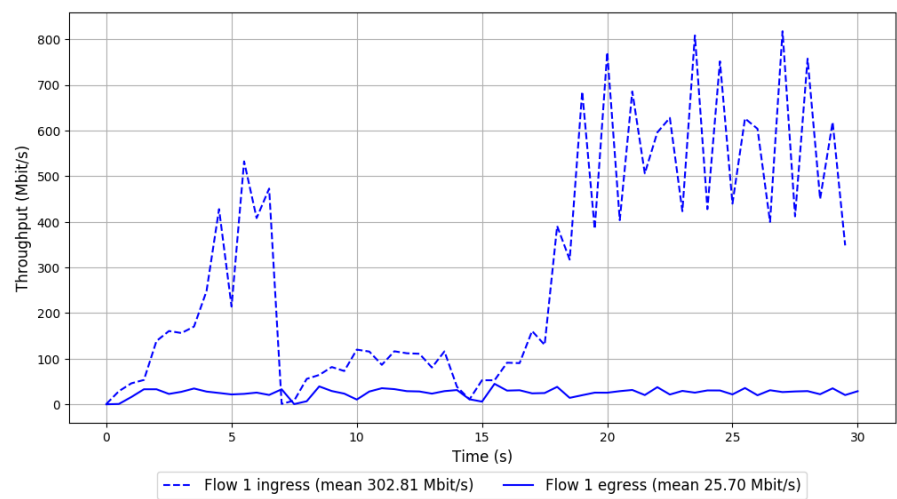


Run 6: Statistics of Verus

Start at: 2018-06-18 12:15:22
End at: 2018-06-18 12:15:52
Local clock offset: -3.226 ms
Remote clock offset: -0.681 ms

Below is generated by plot.py at 2018-06-18 14:51:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 25.70 Mbit/s
95th percentile per-packet one-way delay: 140.533 ms
Loss rate: 91.50%
-- Flow 1:
Average throughput: 25.70 Mbit/s
95th percentile per-packet one-way delay: 140.533 ms
Loss rate: 91.50%

Run 6: Report of Verus — Data Link

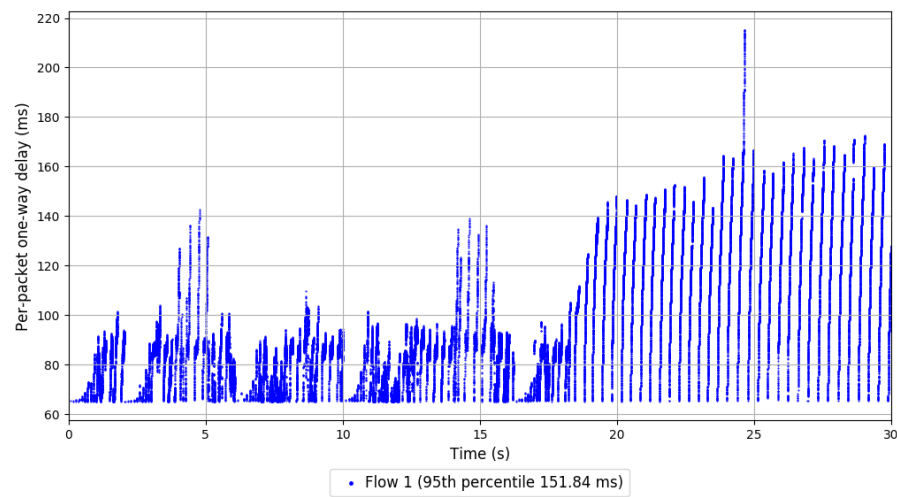
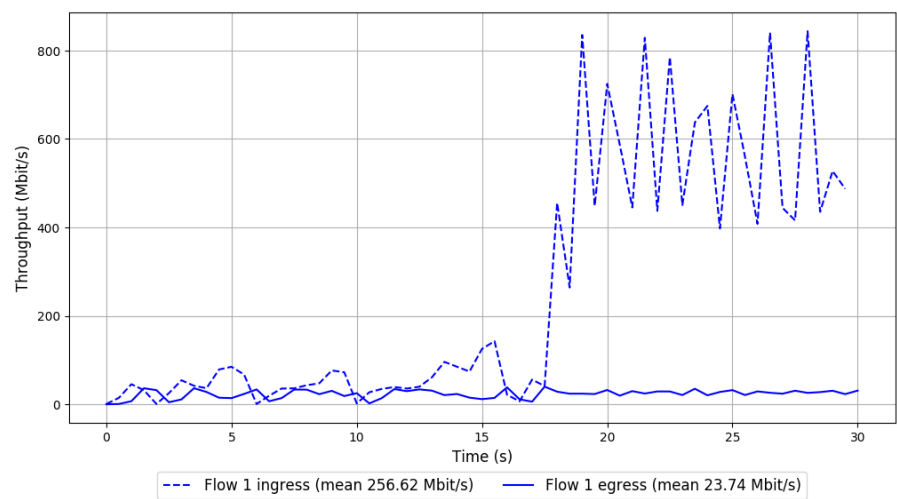


Run 7: Statistics of Verus

Start at: 2018-06-18 12:51:01
End at: 2018-06-18 12:51:31
Local clock offset: 3.161 ms
Remote clock offset: -1.644 ms

Below is generated by plot.py at 2018-06-18 14:51:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 23.74 Mbit/s
95th percentile per-packet one-way delay: 151.845 ms
Loss rate: 90.73%
-- Flow 1:
Average throughput: 23.74 Mbit/s
95th percentile per-packet one-way delay: 151.845 ms
Loss rate: 90.73%

Run 7: Report of Verus — Data Link

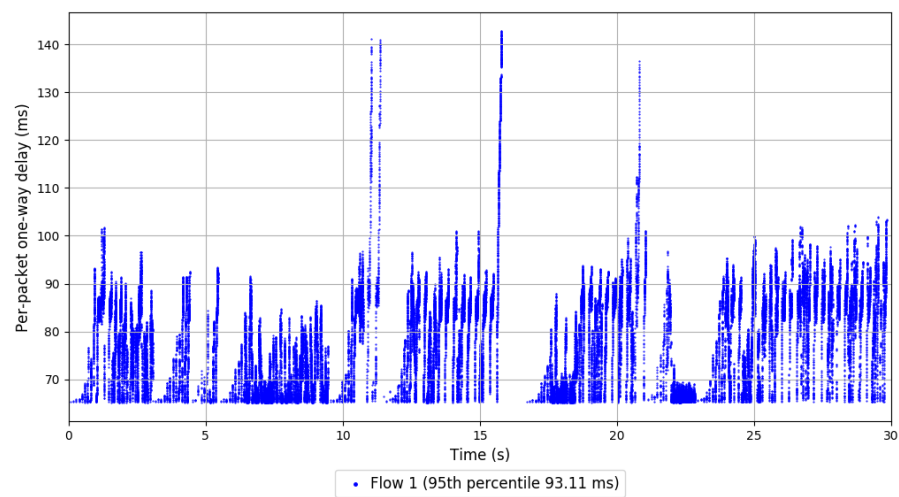
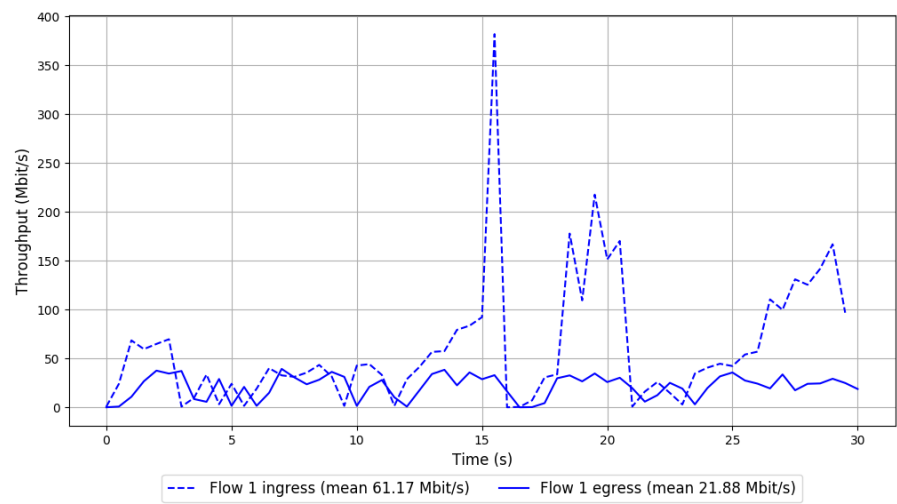


Run 8: Statistics of Verus

Start at: 2018-06-18 13:26:45
End at: 2018-06-18 13:27:15
Local clock offset: 5.186 ms
Remote clock offset: -1.509 ms

Below is generated by plot.py at 2018-06-18 14:51:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 21.88 Mbit/s
95th percentile per-packet one-way delay: 93.105 ms
Loss rate: 64.18%
-- Flow 1:
Average throughput: 21.88 Mbit/s
95th percentile per-packet one-way delay: 93.105 ms
Loss rate: 64.18%

Run 8: Report of Verus — Data Link

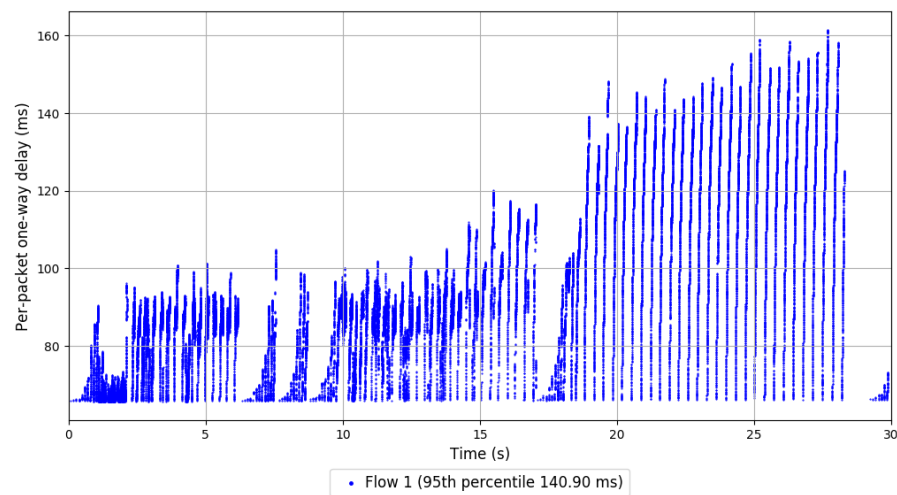
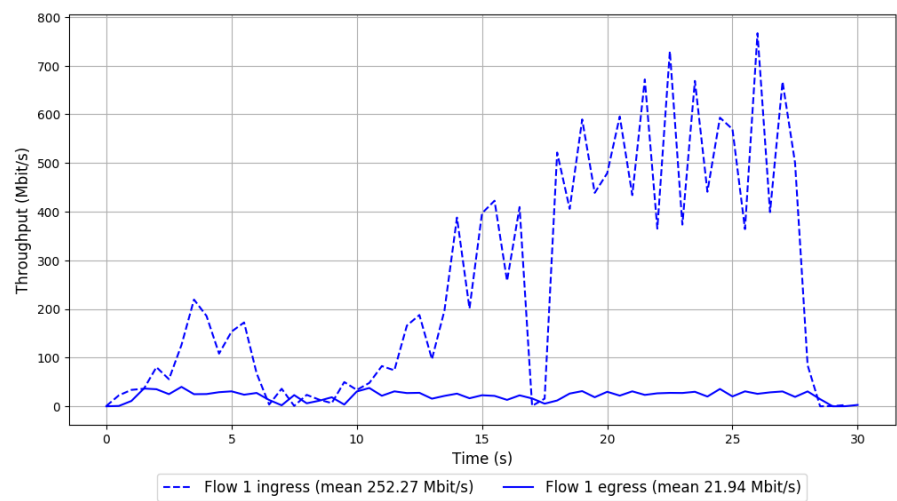


Run 9: Statistics of Verus

Start at: 2018-06-18 14:03:00
End at: 2018-06-18 14:03:30
Local clock offset: -2.377 ms
Remote clock offset: -2.405 ms

Below is generated by plot.py at 2018-06-18 14:51:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 21.94 Mbit/s
95th percentile per-packet one-way delay: 140.898 ms
Loss rate: 91.30%
-- Flow 1:
Average throughput: 21.94 Mbit/s
95th percentile per-packet one-way delay: 140.898 ms
Loss rate: 91.30%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-06-18 14:40:34

End at: 2018-06-18 14:41:04

Local clock offset: 0.552 ms

Remote clock offset: 0.67 ms

Below is generated by plot.py at 2018-06-18 14:51:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.15 Mbit/s

95th percentile per-packet one-way delay: 144.965 ms

Loss rate: 90.45%

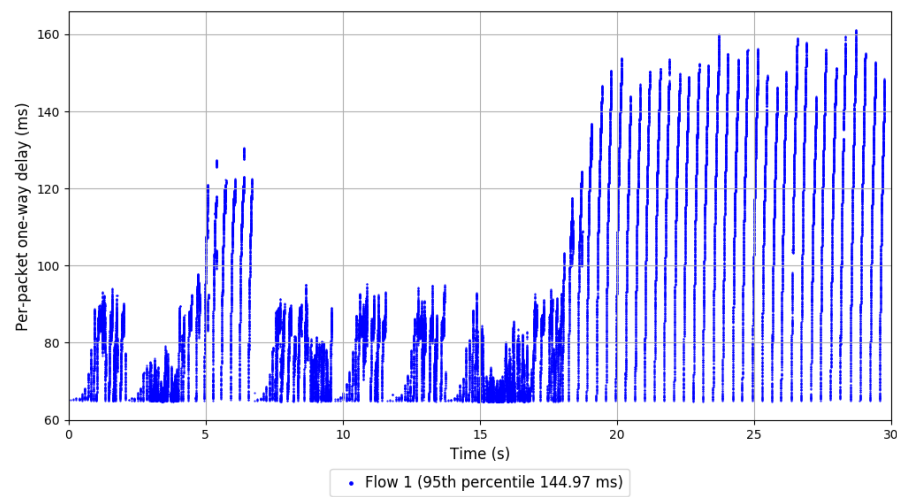
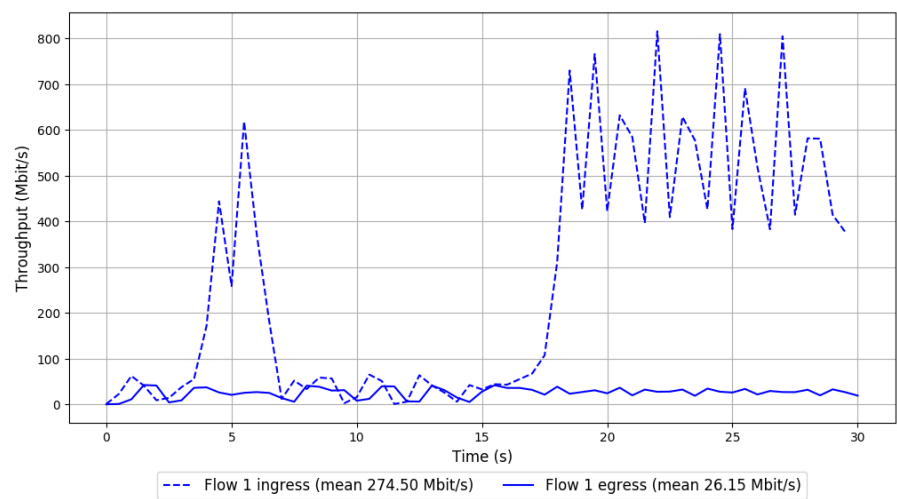
-- Flow 1:

Average throughput: 26.15 Mbit/s

95th percentile per-packet one-way delay: 144.965 ms

Loss rate: 90.45%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-06-18 08:51:50

End at: 2018-06-18 08:52:20

Local clock offset: 2.141 ms

Remote clock offset: -1.331 ms

Below is generated by plot.py at 2018-06-18 14:51:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.88 Mbit/s

95th percentile per-packet one-way delay: 91.287 ms

Loss rate: 0.88%

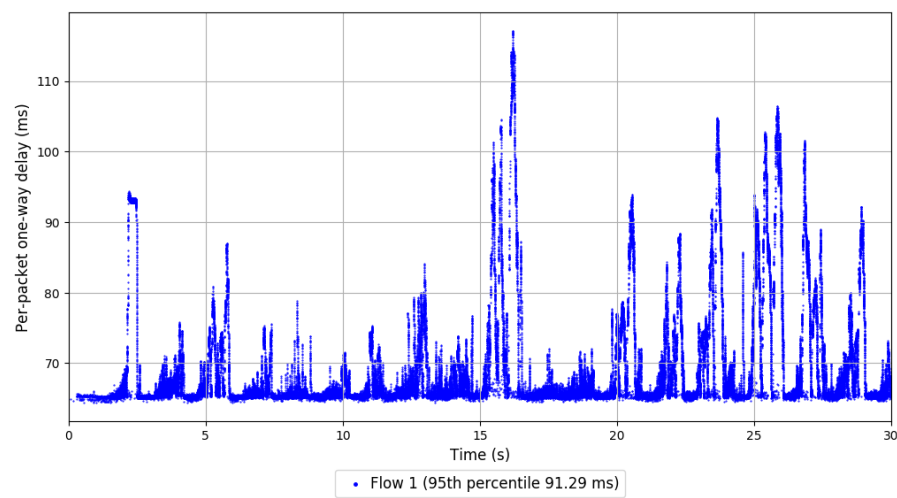
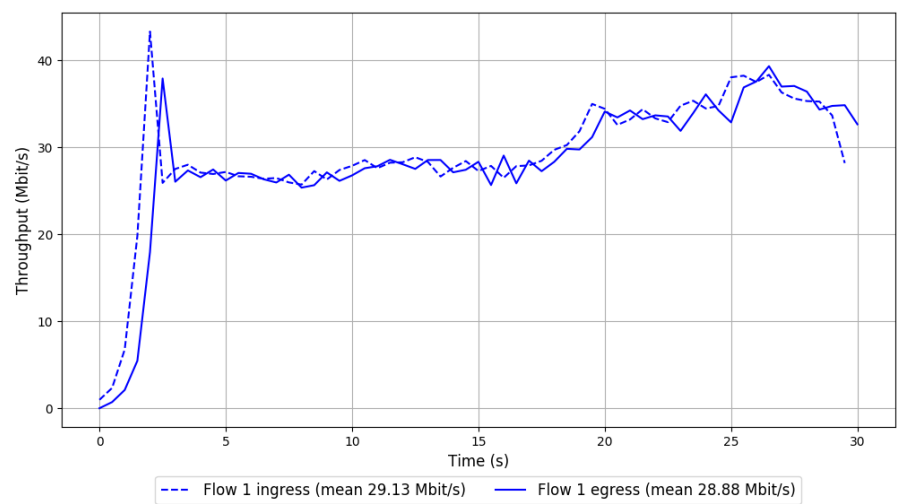
-- Flow 1:

Average throughput: 28.88 Mbit/s

95th percentile per-packet one-way delay: 91.287 ms

Loss rate: 0.88%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-06-18 09:24:23

End at: 2018-06-18 09:24:53

Local clock offset: 2.397 ms

Remote clock offset: 0.1 ms

Below is generated by plot.py at 2018-06-18 14:51:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.72 Mbit/s

95th percentile per-packet one-way delay: 85.806 ms

Loss rate: 2.34%

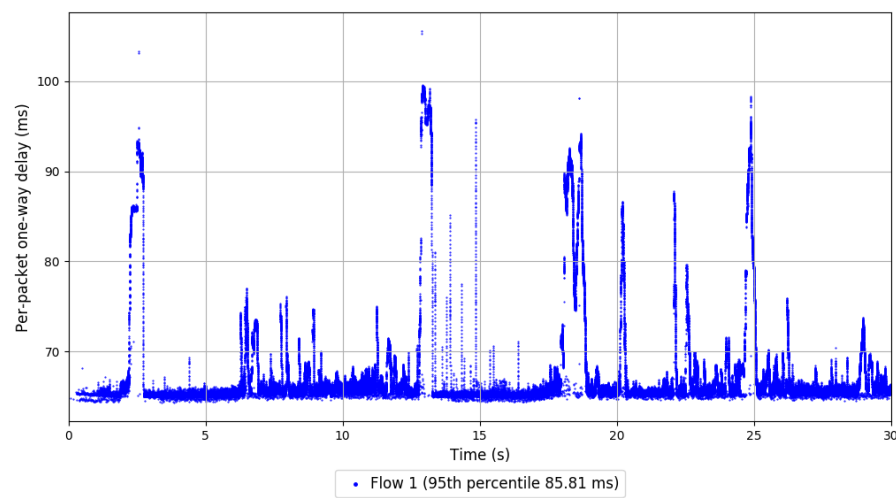
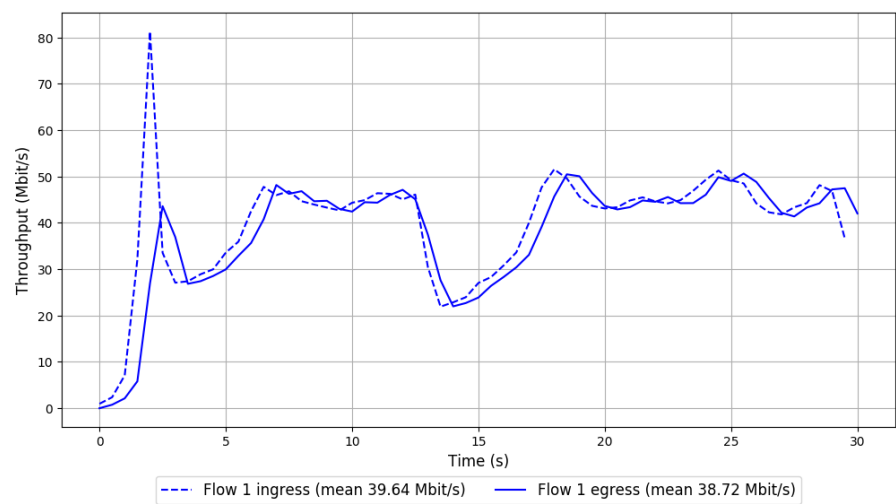
-- Flow 1:

Average throughput: 38.72 Mbit/s

95th percentile per-packet one-way delay: 85.806 ms

Loss rate: 2.34%

Run 2: Report of PCC-Vivace — Data Link

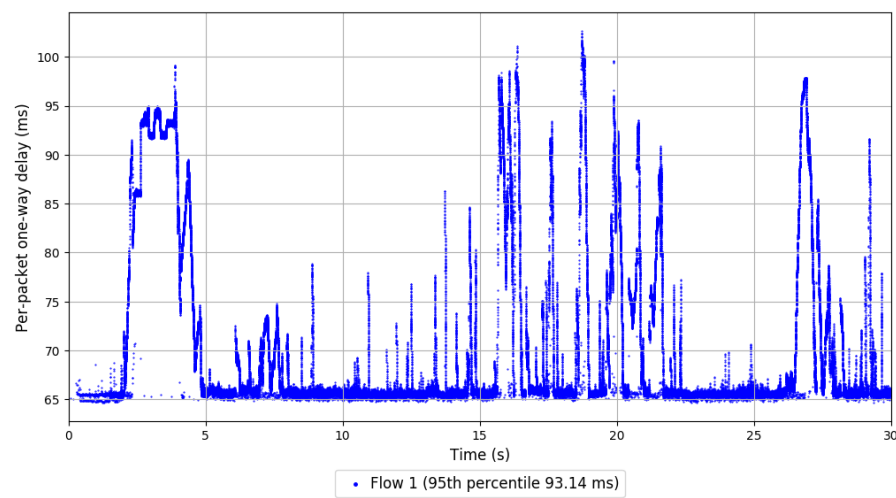
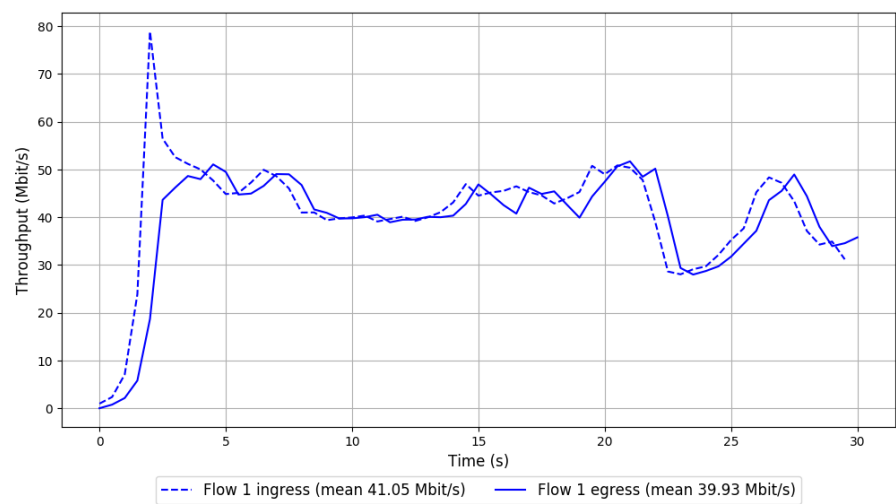


Run 3: Statistics of PCC-Vivace

Start at: 2018-06-18 10:00:47
End at: 2018-06-18 10:01:17
Local clock offset: -0.396 ms
Remote clock offset: -1.036 ms

Below is generated by plot.py at 2018-06-18 14:51:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 39.93 Mbit/s
95th percentile per-packet one-way delay: 93.144 ms
Loss rate: 2.73%
-- Flow 1:
Average throughput: 39.93 Mbit/s
95th percentile per-packet one-way delay: 93.144 ms
Loss rate: 2.73%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-06-18 10:31:45

End at: 2018-06-18 10:32:15

Local clock offset: -5.949 ms

Remote clock offset: -2.8 ms

Below is generated by plot.py at 2018-06-18 14:51:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.64 Mbit/s

95th percentile per-packet one-way delay: 97.219 ms

Loss rate: 2.84%

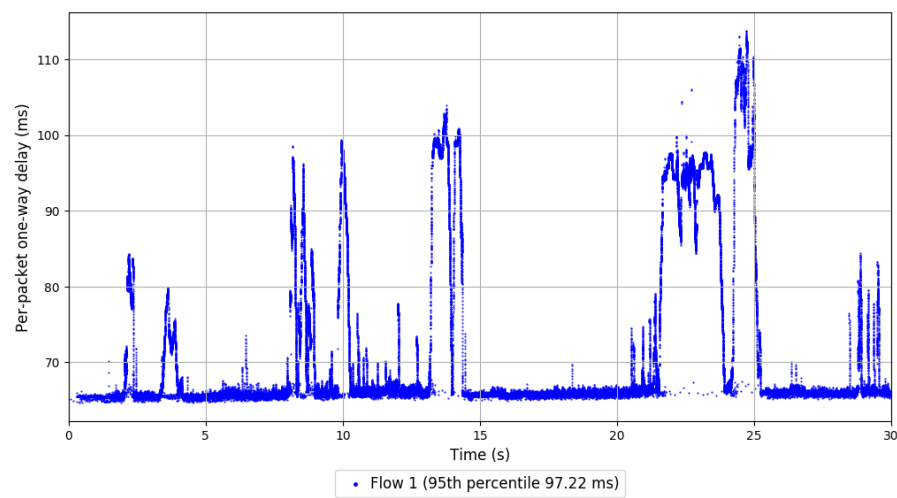
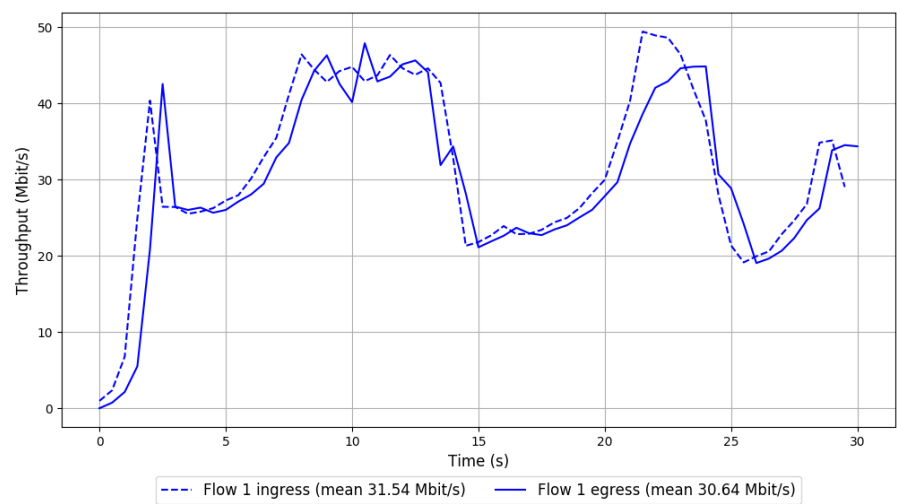
-- Flow 1:

Average throughput: 30.64 Mbit/s

95th percentile per-packet one-way delay: 97.219 ms

Loss rate: 2.84%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-06-18 11:09:24

End at: 2018-06-18 11:09:54

Local clock offset: 5.565 ms

Remote clock offset: -1.599 ms

Below is generated by plot.py at 2018-06-18 14:51:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.32 Mbit/s

95th percentile per-packet one-way delay: 103.273 ms

Loss rate: 2.66%

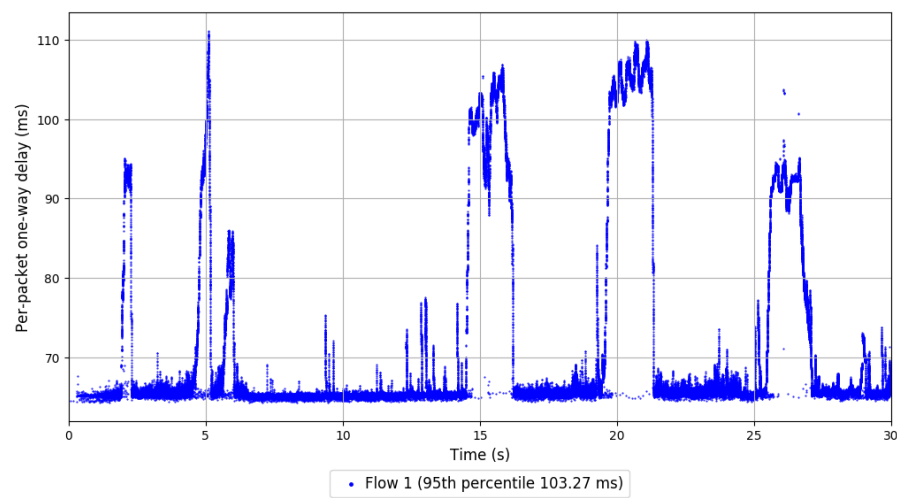
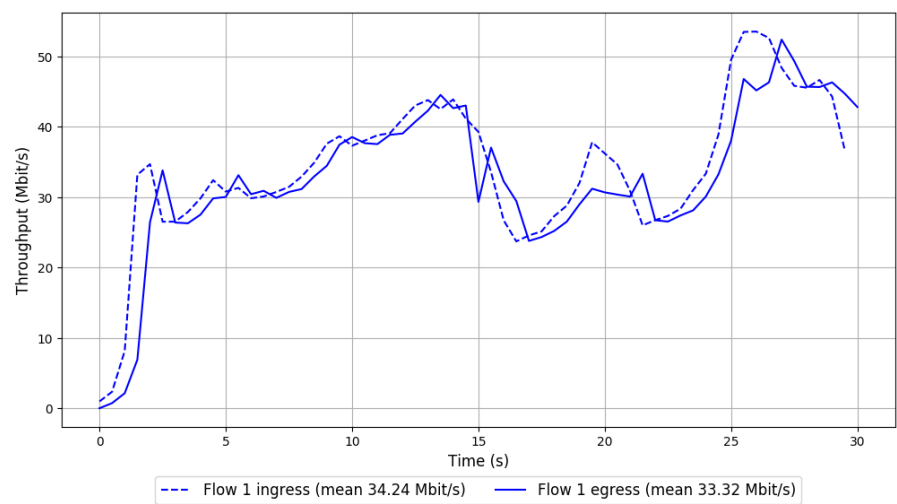
-- Flow 1:

Average throughput: 33.32 Mbit/s

95th percentile per-packet one-way delay: 103.273 ms

Loss rate: 2.66%

Run 5: Report of PCC-Vivace — Data Link

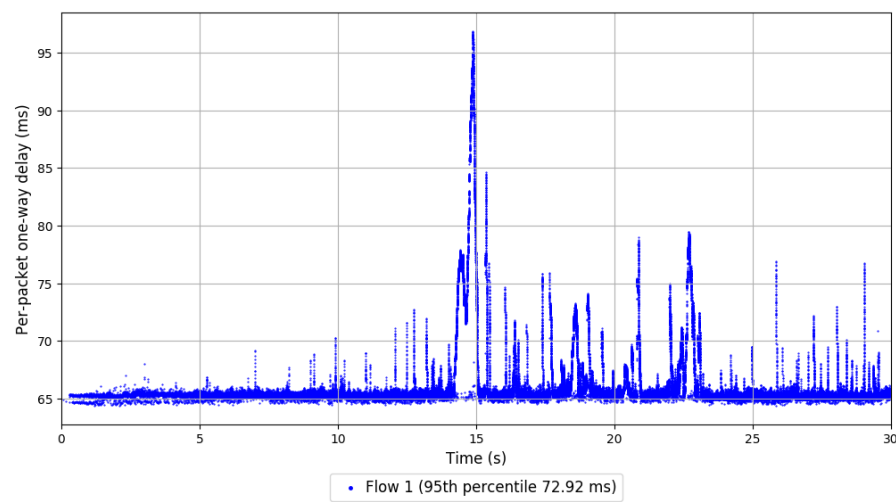
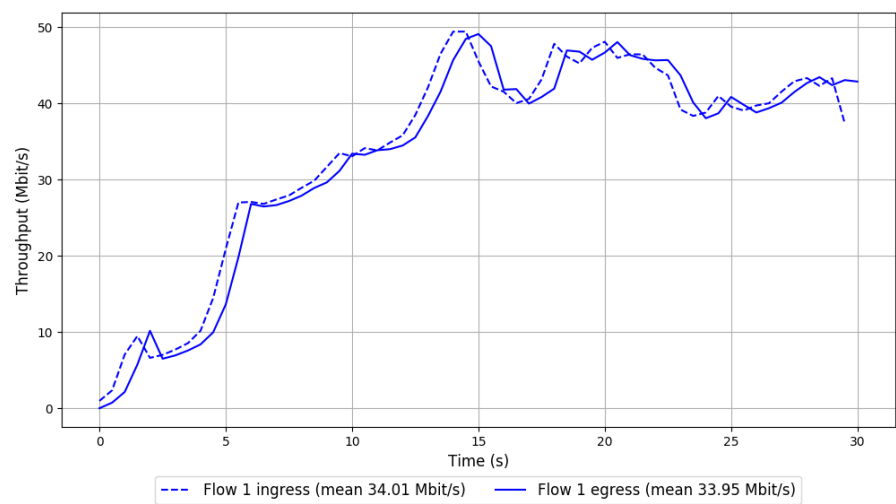


Run 6: Statistics of PCC-Vivace

Start at: 2018-06-18 11:46:01
End at: 2018-06-18 11:46:31
Local clock offset: 0.803 ms
Remote clock offset: -0.706 ms

Below is generated by plot.py at 2018-06-18 14:51:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 33.95 Mbit/s
95th percentile per-packet one-way delay: 72.919 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 33.95 Mbit/s
95th percentile per-packet one-way delay: 72.919 ms
Loss rate: 0.16%

Run 6: Report of PCC-Vivace — Data Link

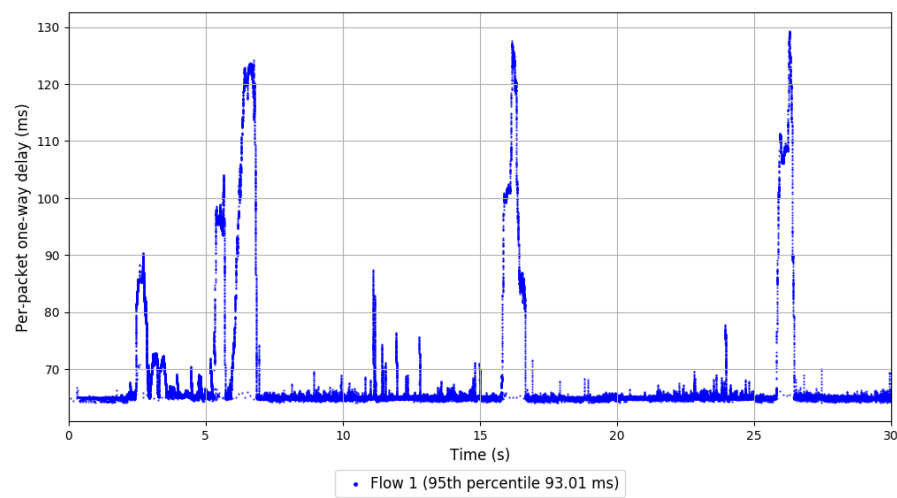
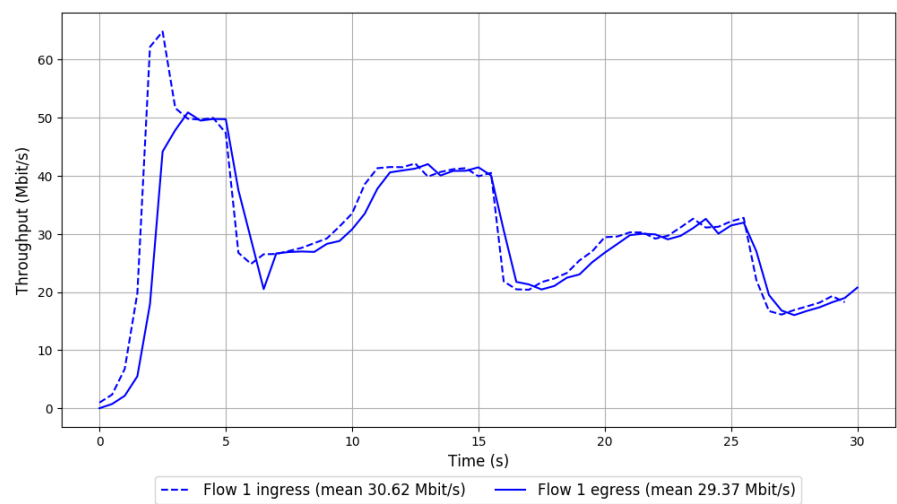


Run 7: Statistics of PCC-Vivace

Start at: 2018-06-18 12:21:45
End at: 2018-06-18 12:22:15
Local clock offset: -3.822 ms
Remote clock offset: -0.661 ms

Below is generated by plot.py at 2018-06-18 14:51:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 29.37 Mbit/s
95th percentile per-packet one-way delay: 93.011 ms
Loss rate: 4.08%
-- Flow 1:
Average throughput: 29.37 Mbit/s
95th percentile per-packet one-way delay: 93.011 ms
Loss rate: 4.08%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-06-18 12:58:02

End at: 2018-06-18 12:58:32

Local clock offset: 3.868 ms

Remote clock offset: -1.844 ms

Below is generated by plot.py at 2018-06-18 14:51:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.11 Mbit/s

95th percentile per-packet one-way delay: 109.021 ms

Loss rate: 7.20%

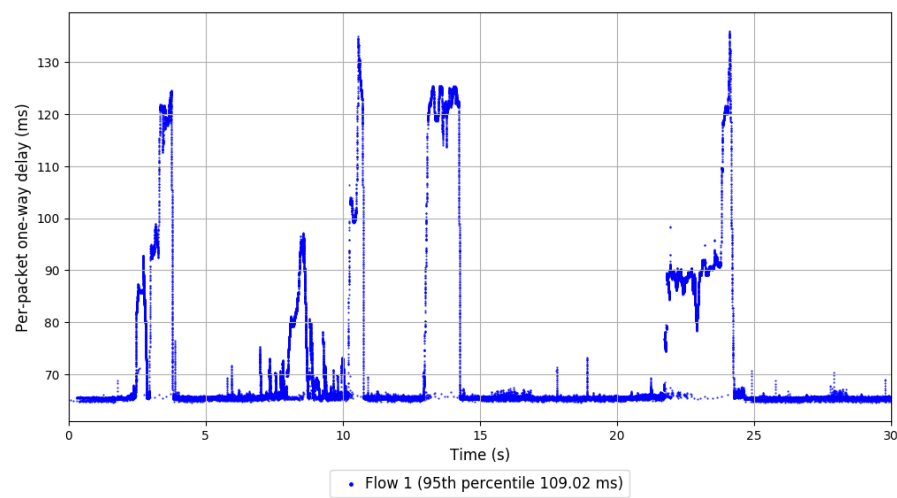
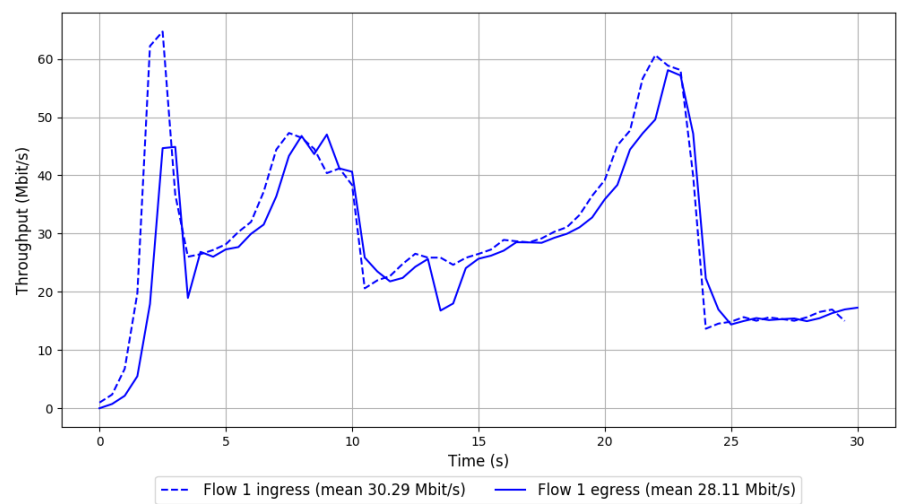
-- Flow 1:

Average throughput: 28.11 Mbit/s

95th percentile per-packet one-way delay: 109.021 ms

Loss rate: 7.20%

Run 8: Report of PCC-Vivace — Data Link

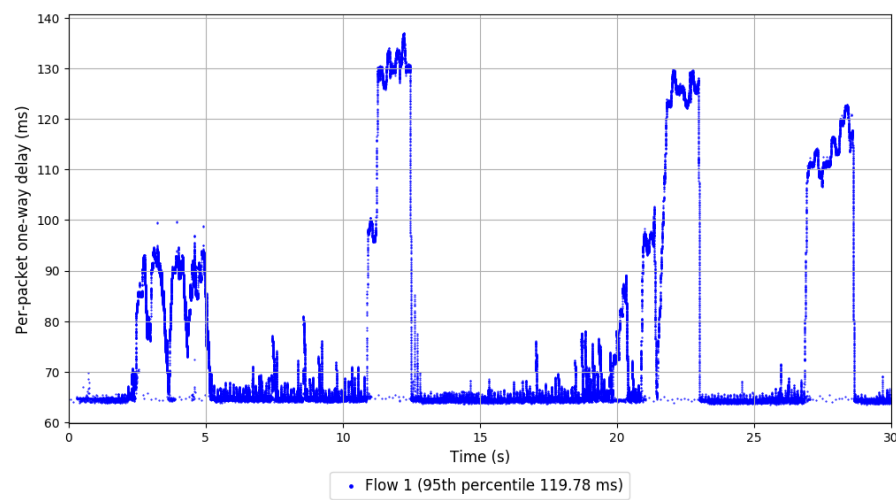
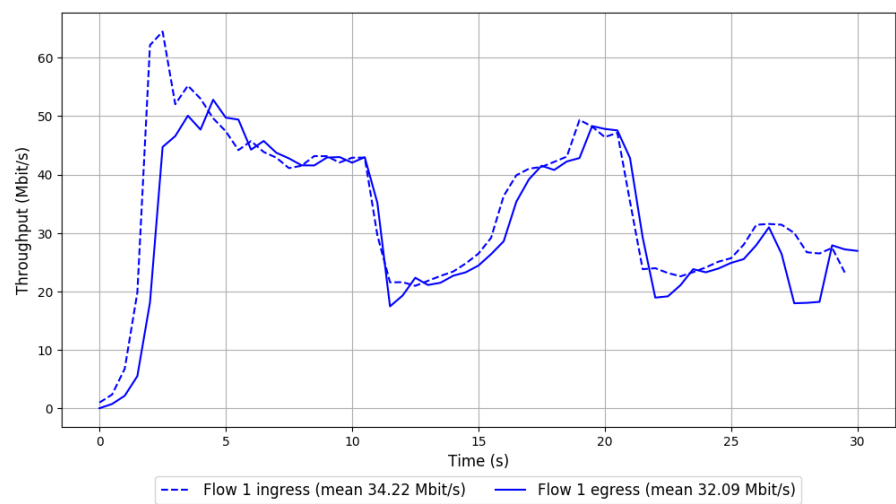


Run 9: Statistics of PCC-Vivace

Start at: 2018-06-18 13:33:39
End at: 2018-06-18 13:34:09
Local clock offset: 4.103 ms
Remote clock offset: -1.529 ms

Below is generated by plot.py at 2018-06-18 14:51:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 32.09 Mbit/s
95th percentile per-packet one-way delay: 119.784 ms
Loss rate: 6.22%
-- Flow 1:
Average throughput: 32.09 Mbit/s
95th percentile per-packet one-way delay: 119.784 ms
Loss rate: 6.22%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-06-18 14:10:15

End at: 2018-06-18 14:10:45

Local clock offset: 1.965 ms

Remote clock offset: -2.571 ms

Below is generated by plot.py at 2018-06-18 14:51:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.45 Mbit/s

95th percentile per-packet one-way delay: 81.175 ms

Loss rate: 0.08%

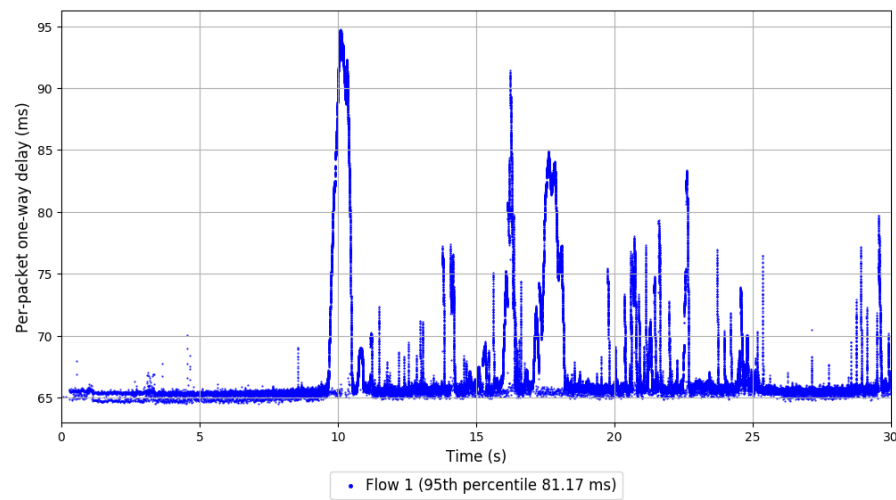
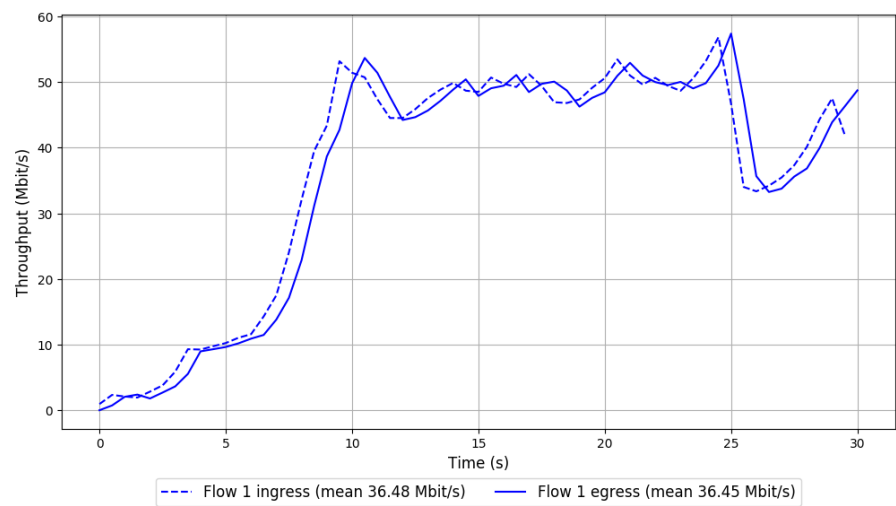
-- Flow 1:

Average throughput: 36.45 Mbit/s

95th percentile per-packet one-way delay: 81.175 ms

Loss rate: 0.08%

Run 10: Report of PCC-Vivace — Data Link

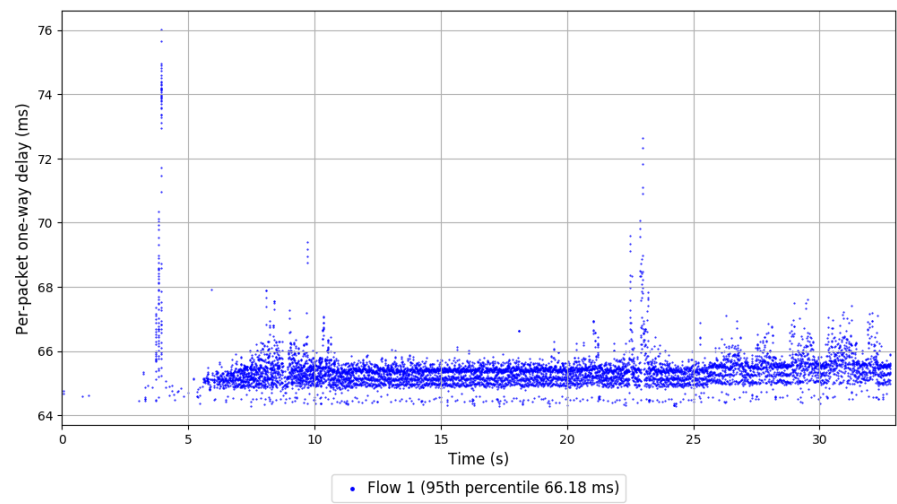
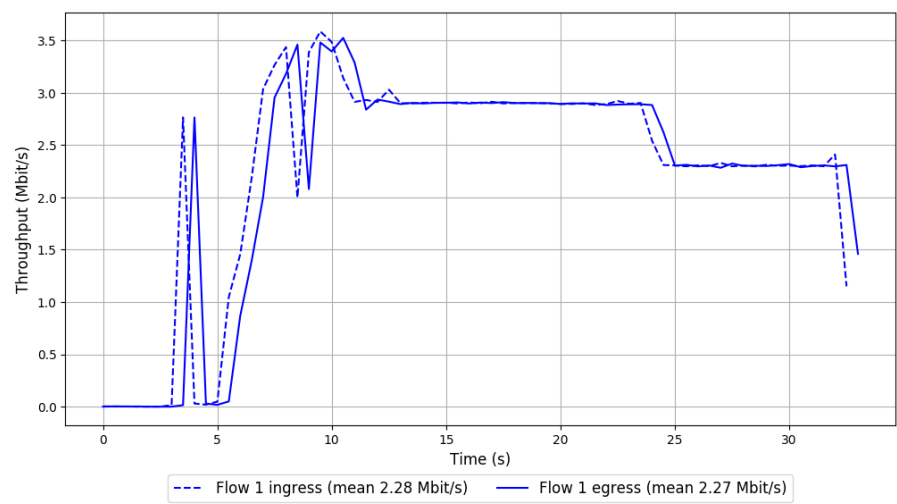


```
Run 1: Statistics of WebRTC media

Start at: 2018-06-18 08:50:32
End at: 2018-06-18 08:51:02
Local clock offset: 2.036 ms
Remote clock offset: -1.341 ms

# Below is generated by plot.py at 2018-06-18 14:51:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 66.181 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 66.181 ms
Loss rate: 0.26%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-06-18 09:23:02

End at: 2018-06-18 09:23:33

Local clock offset: 2.474 ms

Remote clock offset: 0.045 ms

Below is generated by plot.py at 2018-06-18 14:51:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 66.837 ms

Loss rate: 0.09%

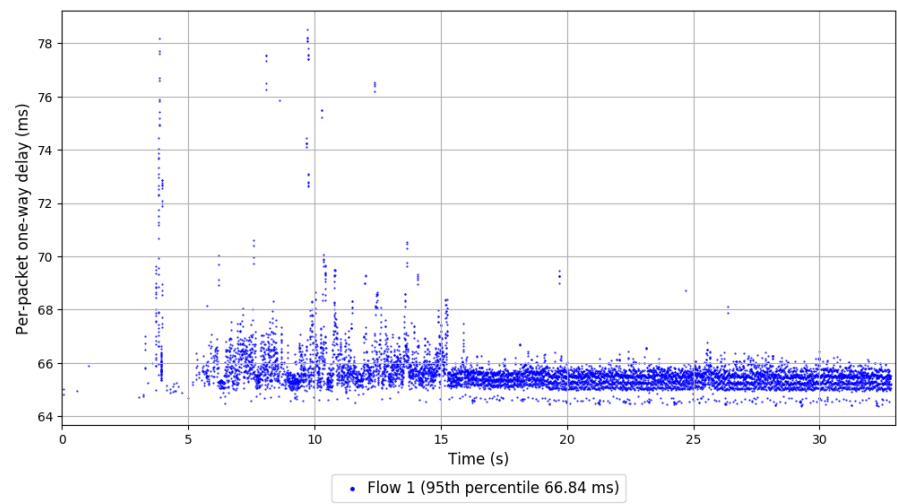
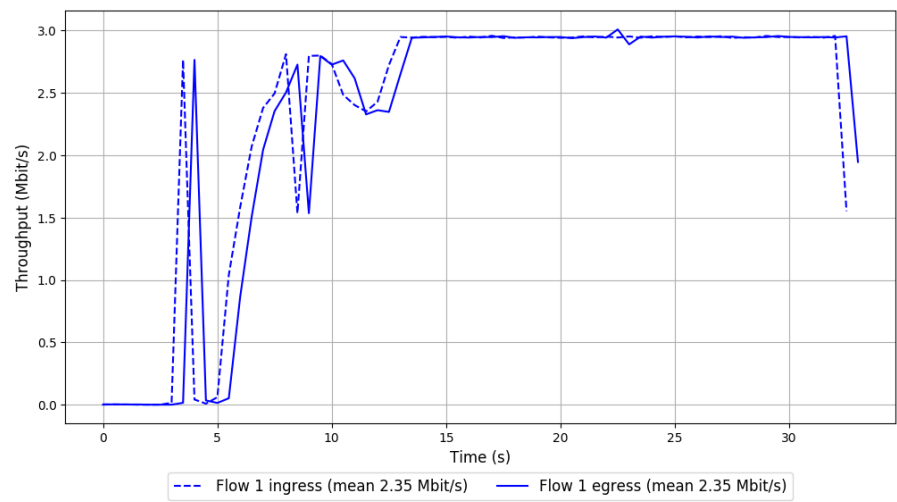
-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 66.837 ms

Loss rate: 0.09%

Run 2: Report of WebRTC media — Data Link

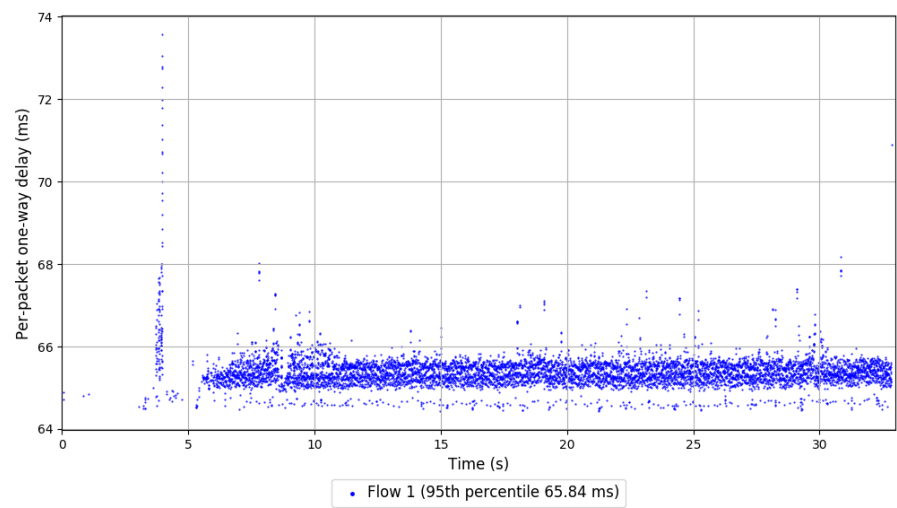
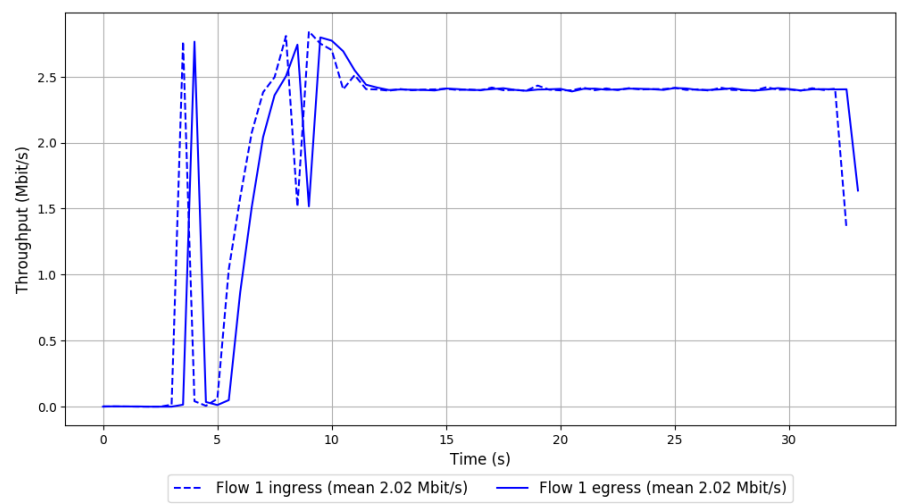


Run 3: Statistics of WebRTC media

Start at: 2018-06-18 09:59:27
End at: 2018-06-18 09:59:57
Local clock offset: -0.288 ms
Remote clock offset: -0.891 ms

Below is generated by plot.py at 2018-06-18 14:51:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 65.843 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 65.843 ms
Loss rate: 0.04%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-06-18 10:30:24

End at: 2018-06-18 10:30:54

Local clock offset: -5.9 ms

Remote clock offset: -2.68 ms

Below is generated by plot.py at 2018-06-18 14:51:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 65.786 ms

Loss rate: 0.01%

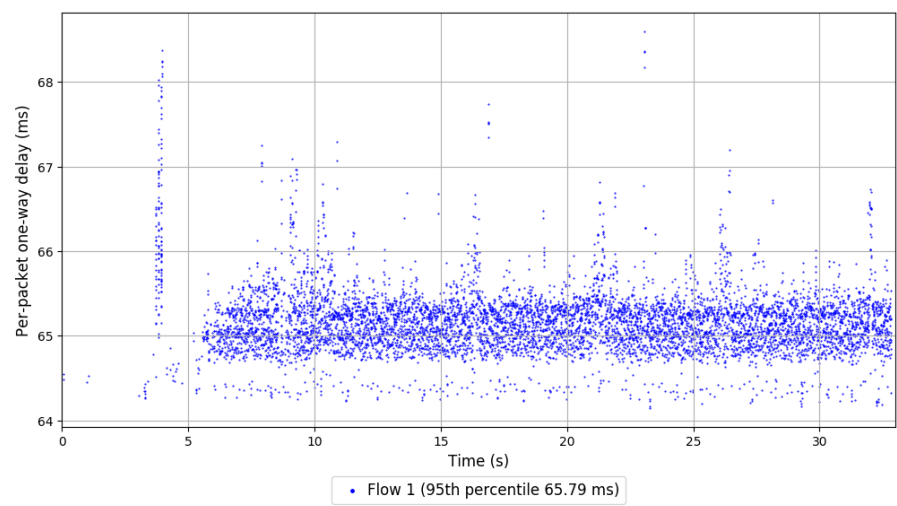
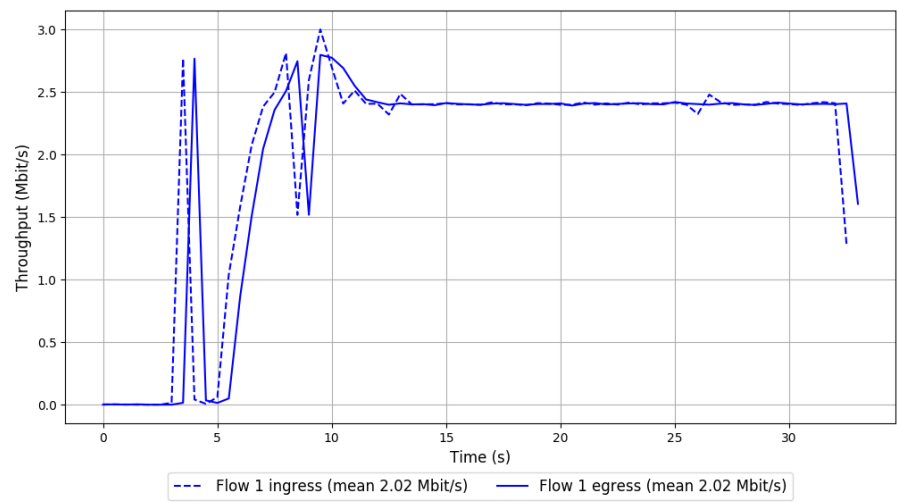
-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 65.786 ms

Loss rate: 0.01%

Run 4: Report of WebRTC media — Data Link

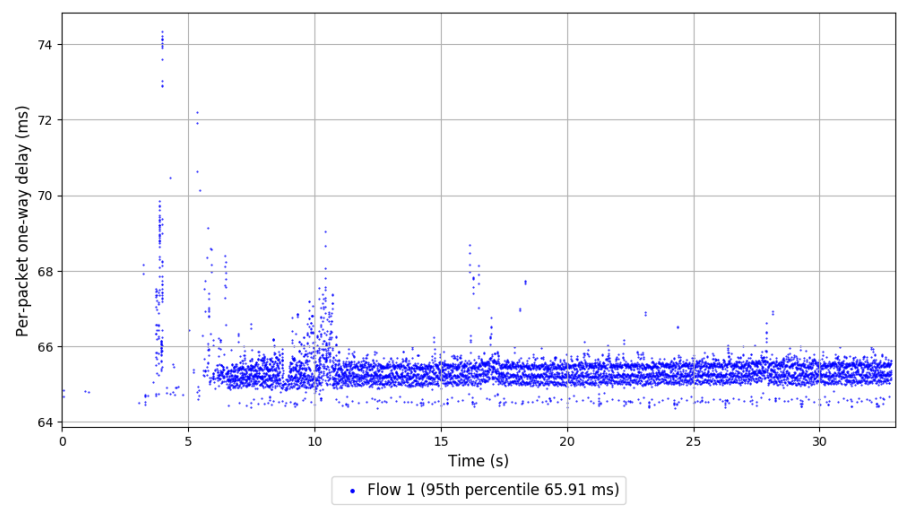
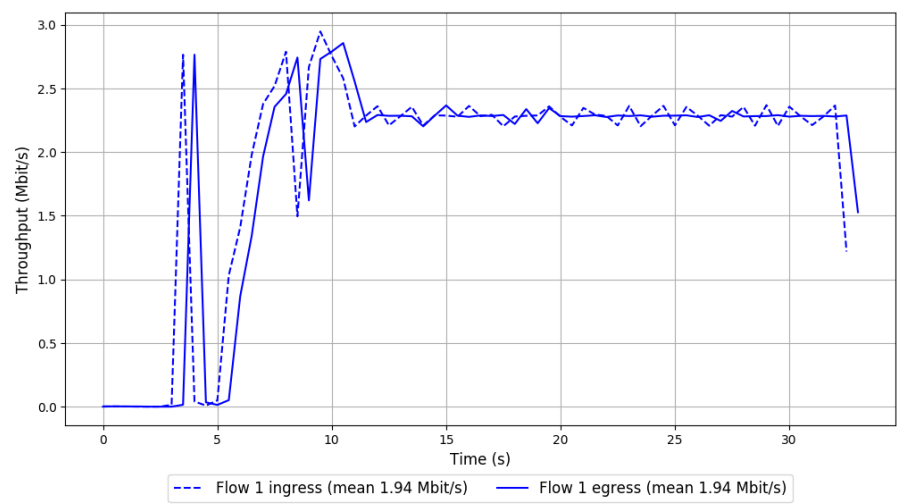


Run 5: Statistics of WebRTC media

Start at: 2018-06-18 11:08:07
End at: 2018-06-18 11:08:37
Local clock offset: 5.295 ms
Remote clock offset: -1.563 ms

Below is generated by plot.py at 2018-06-18 14:51:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 65.910 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 65.910 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

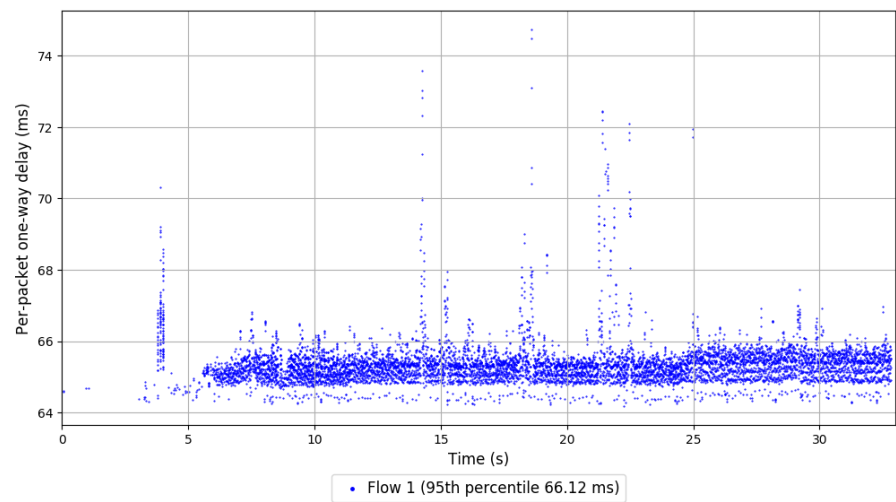
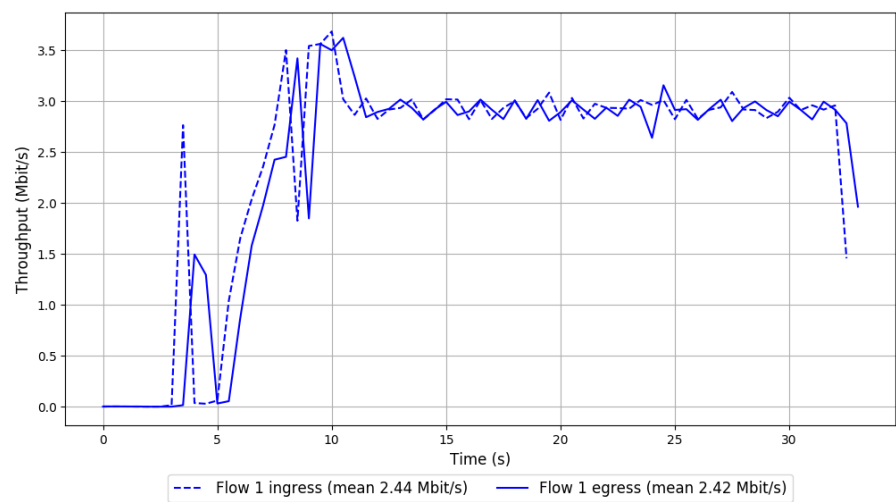


Run 6: Statistics of WebRTC media

Start at: 2018-06-18 11:44:41
End at: 2018-06-18 11:45:11
Local clock offset: 1.267 ms
Remote clock offset: -0.721 ms

Below is generated by plot.py at 2018-06-18 14:51:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 66.120 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 66.120 ms
Loss rate: 0.60%

Run 6: Report of WebRTC media — Data Link

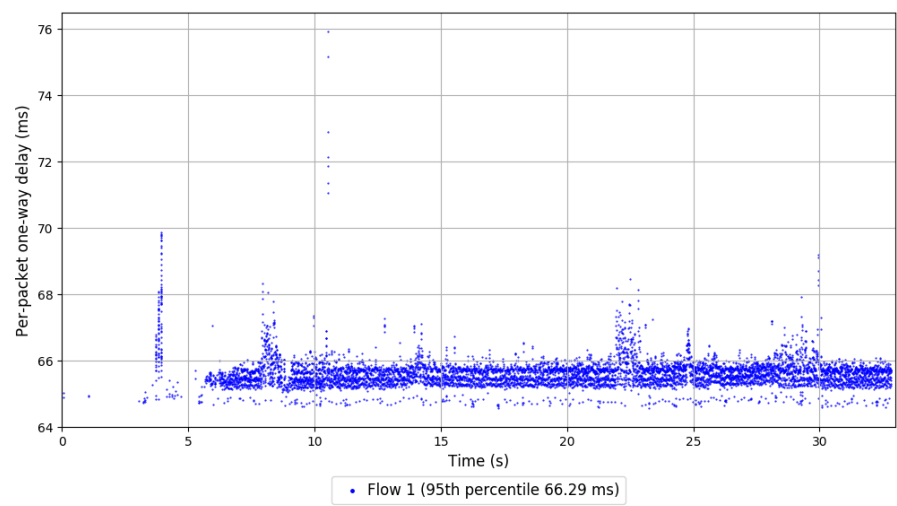
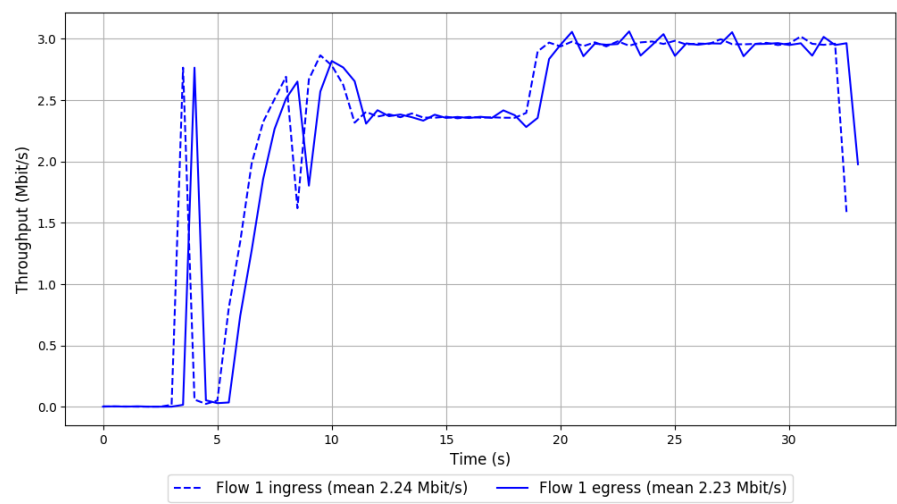


Run 7: Statistics of WebRTC media

Start at: 2018-06-18 12:20:25
End at: 2018-06-18 12:20:55
Local clock offset: -3.954 ms
Remote clock offset: -0.717 ms

Below is generated by plot.py at 2018-06-18 14:51:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 66.287 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 66.287 ms
Loss rate: 0.19%

Run 7: Report of WebRTC media — Data Link

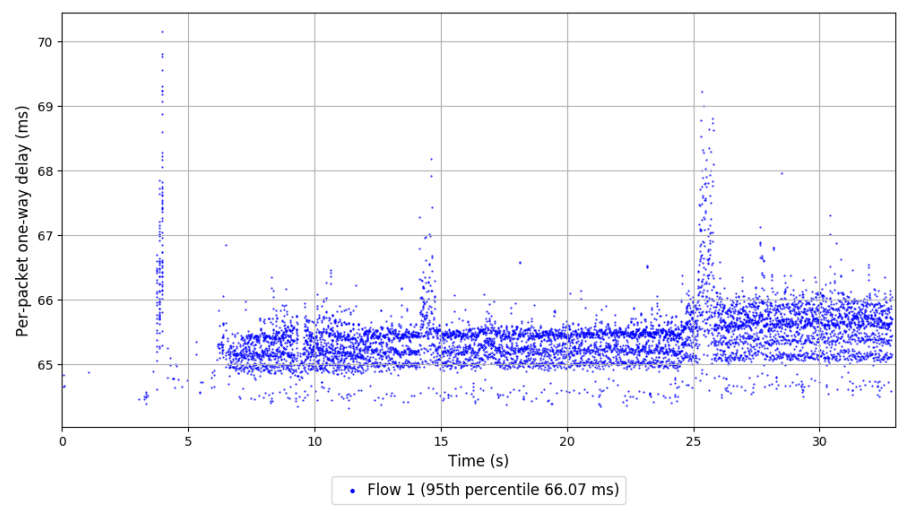
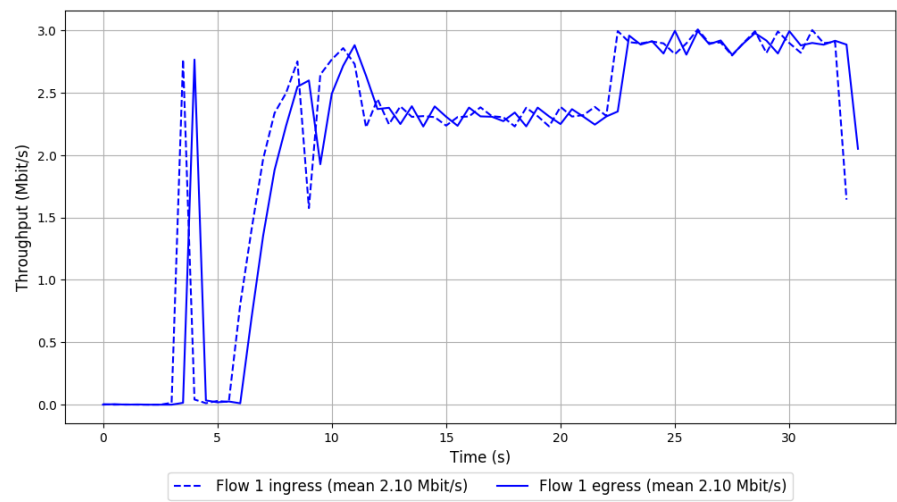


Run 8: Statistics of WebRTC media

Start at: 2018-06-18 12:56:44
End at: 2018-06-18 12:57:14
Local clock offset: 3.718 ms
Remote clock offset: -1.791 ms

Below is generated by plot.py at 2018-06-18 14:51:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 66.068 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 66.068 ms
Loss rate: 0.08%

Run 8: Report of WebRTC media — Data Link

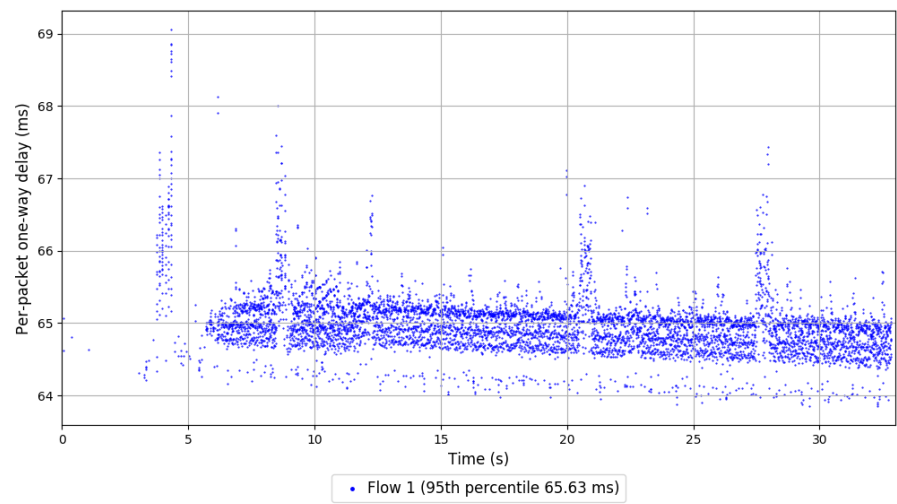
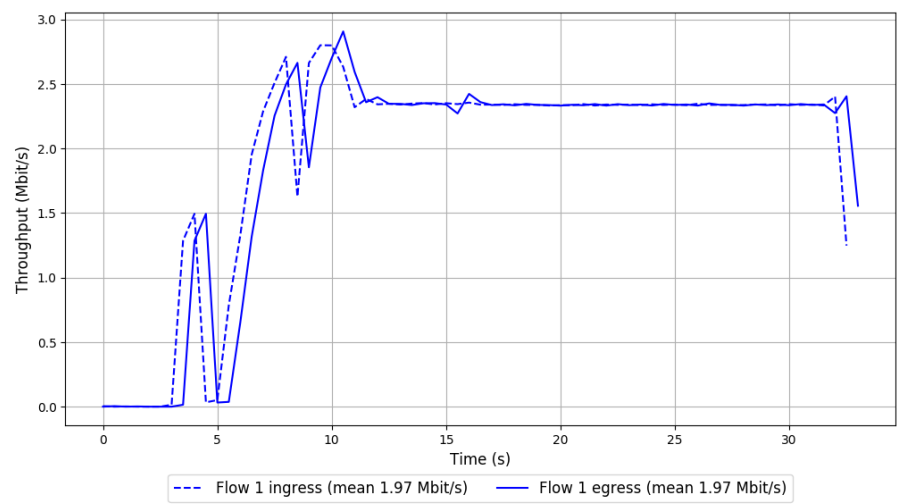


Run 9: Statistics of WebRTC media

Start at: 2018-06-18 13:32:21
End at: 2018-06-18 13:32:51
Local clock offset: 4.926 ms
Remote clock offset: -1.528 ms

Below is generated by plot.py at 2018-06-18 14:51:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 65.632 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 65.632 ms
Loss rate: 0.05%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-18 14:08:57

End at: 2018-06-18 14:09:27

Local clock offset: 1.17 ms

Remote clock offset: -2.572 ms

Below is generated by plot.py at 2018-06-18 14:51:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 66.578 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 66.578 ms

Loss rate: 0.07%

Run 10: Report of WebRTC media — Data Link

