

Pantheon Report

Generated at 2018-06-19 10:26:38 (UTC).

Data path: GCE Iowa Ethernet (*local*) → GCE Tokyo Ethernet (*remote*).

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

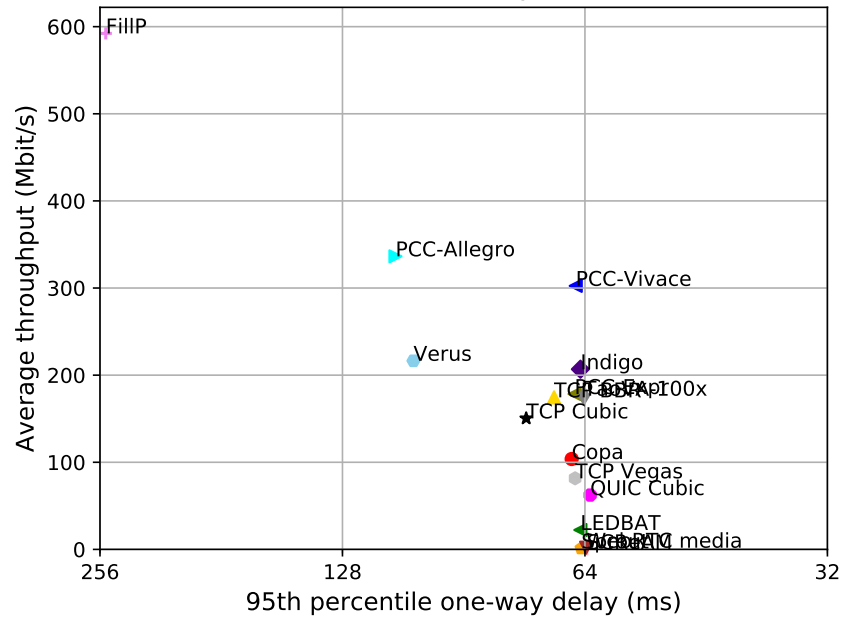
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.

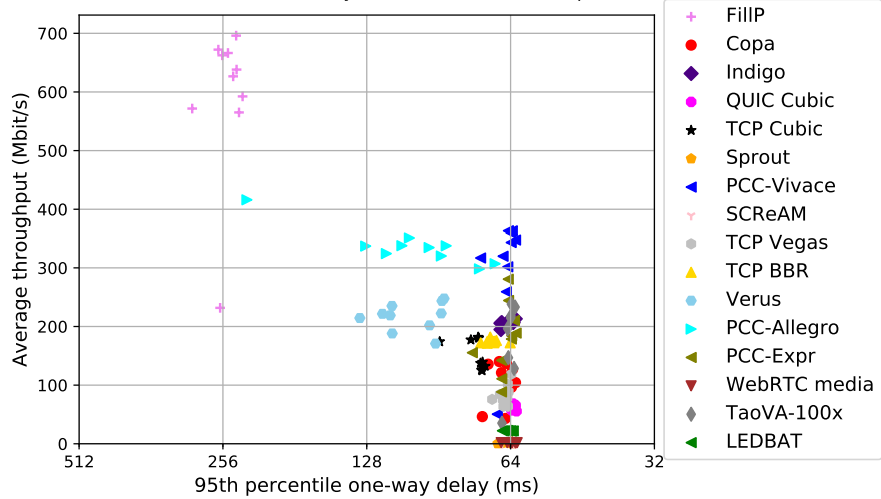
Git summary:

```
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-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from GCE Iowa to GCE Tokyo, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE Iowa to GCE Tokyo, 10 runs of 30s each per scheme



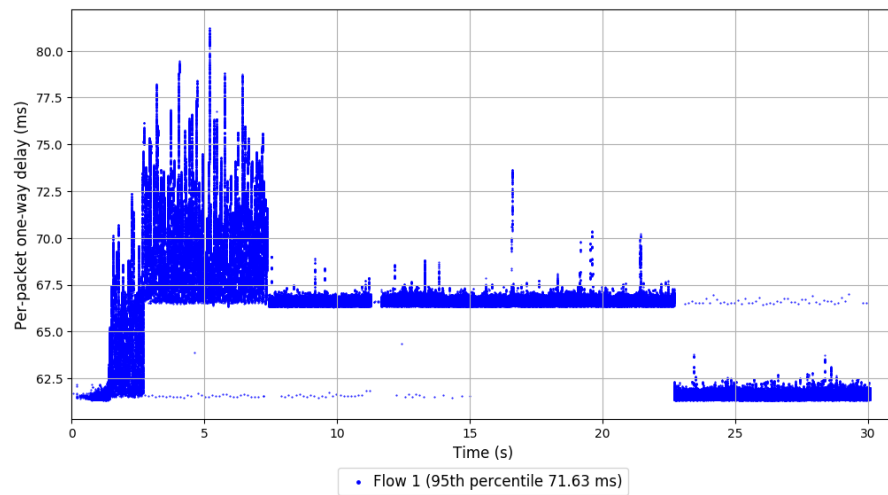
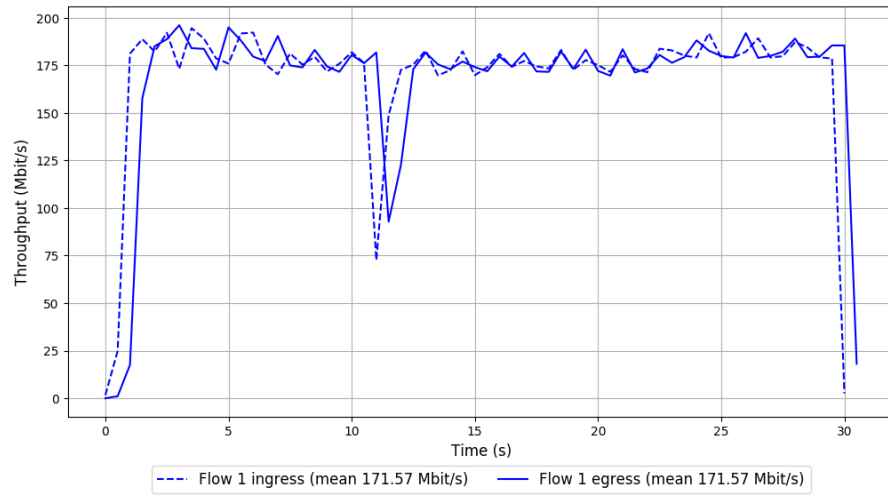
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	174.53	69.91	0.00
Copa	10	103.76	66.48	0.00
TCP Cubic	10	150.38	75.71	0.04
FillP	10	592.30	251.81	0.68
Indigo	10	206.82	64.83	0.00
LEDBAT	10	22.29	64.85	0.00
PCC-Allegro	10	336.40	110.00	0.50
PCC-Expr	10	178.37	65.94	0.00
QUIC Cubic	8	62.35	63.05	0.00
SCReAM	10	0.22	63.63	0.00
Sprout	10	1.21	64.66	0.00
TaoVA-100x	8	176.41	64.19	0.00
TCP Vegas	10	81.59	65.82	0.00
Verus	10	216.48	104.50	0.03
PCC-Vivace	10	302.49	65.71	0.07
WebRTC media	10	1.95	63.78	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-06-19 05:50:45
End at: 2018-06-19 05:51:15
Local clock offset: -0.013 ms
Remote clock offset: -0.209 ms

Below is generated by plot.py at 2018-06-19 09:16:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 171.57 Mbit/s
95th percentile per-packet one-way delay: 71.632 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 171.57 Mbit/s
95th percentile per-packet one-way delay: 71.632 ms
Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-06-19 06:10:37

End at: 2018-06-19 06:11:07

Local clock offset: 0.037 ms

Remote clock offset: 0.26 ms

Below is generated by plot.py at 2018-06-19 09:16:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.21 Mbit/s

95th percentile per-packet one-way delay: 73.909 ms

Loss rate: 0.01%

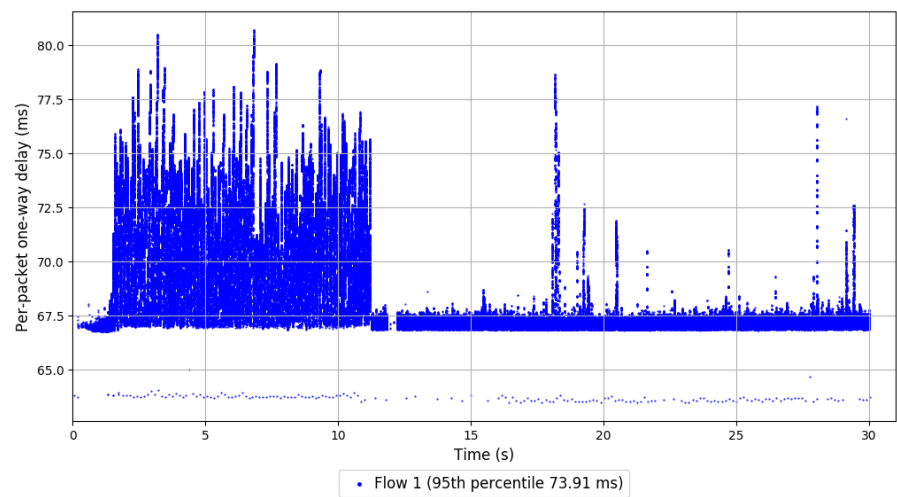
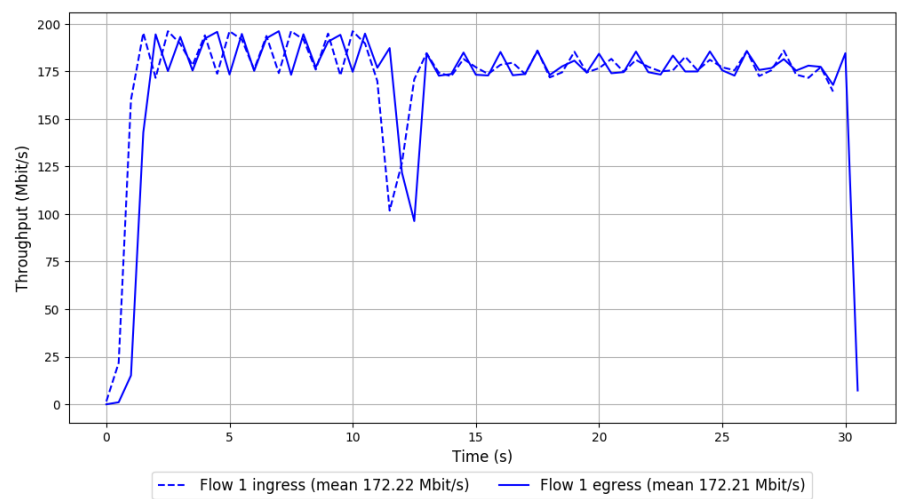
-- Flow 1:

Average throughput: 172.21 Mbit/s

95th percentile per-packet one-way delay: 73.909 ms

Loss rate: 0.01%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-06-19 06:30:07

End at: 2018-06-19 06:30:37

Local clock offset: -0.009 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-06-19 09:16:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.34 Mbit/s

95th percentile per-packet one-way delay: 69.370 ms

Loss rate: 0.01%

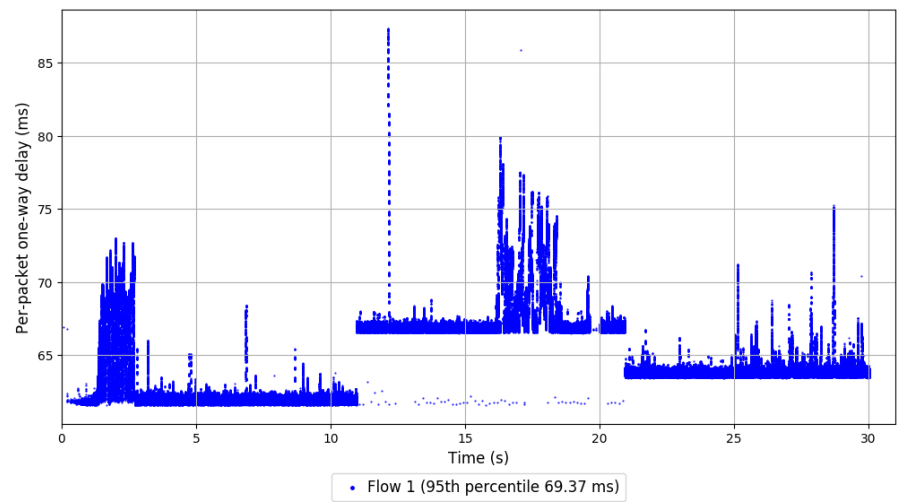
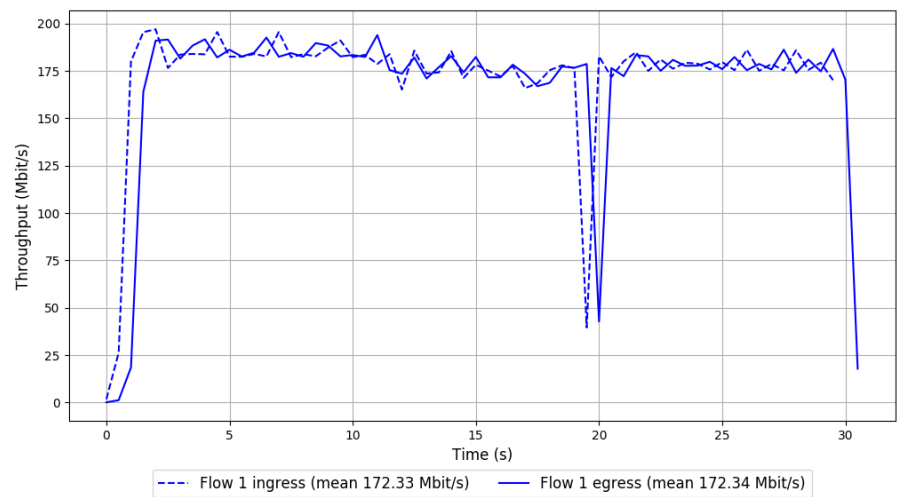
-- Flow 1:

Average throughput: 172.34 Mbit/s

95th percentile per-packet one-way delay: 69.370 ms

Loss rate: 0.01%

Run 3: Report of TCP BBR — Data Link

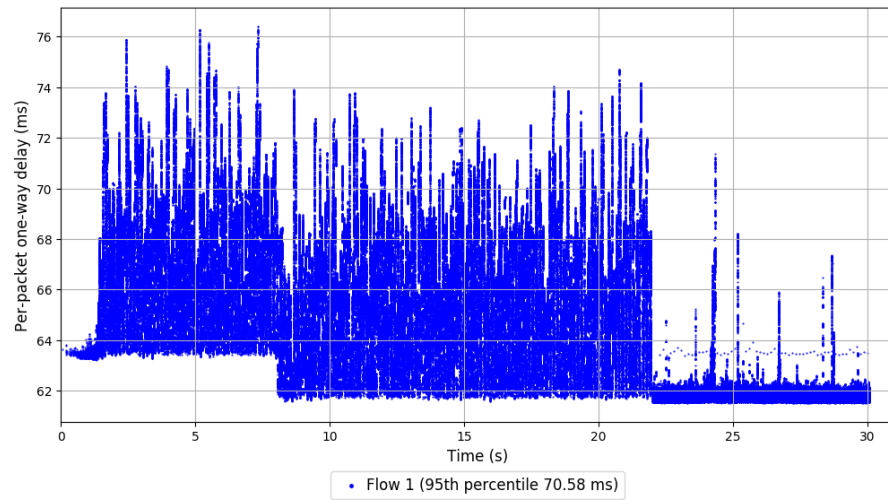
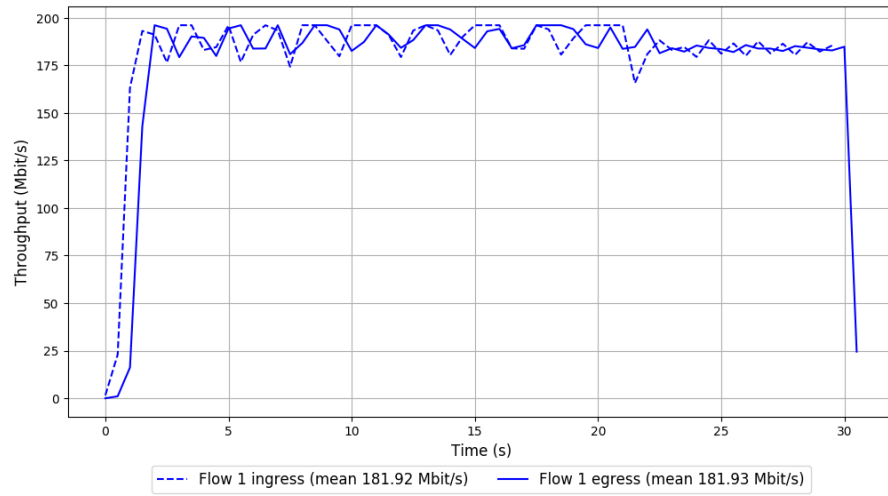


Run 4: Statistics of TCP BBR

Start at: 2018-06-19 06:50:20
End at: 2018-06-19 06:50:50
Local clock offset: -0.123 ms
Remote clock offset: -0.112 ms

Below is generated by plot.py at 2018-06-19 09:16:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 181.93 Mbit/s
95th percentile per-packet one-way delay: 70.582 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 181.93 Mbit/s
95th percentile per-packet one-way delay: 70.582 ms
Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-06-19 07:10:32

End at: 2018-06-19 07:11:02

Local clock offset: -0.014 ms

Remote clock offset: -0.202 ms

Below is generated by plot.py at 2018-06-19 09:16:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.20 Mbit/s

95th percentile per-packet one-way delay: 68.532 ms

Loss rate: 0.00%

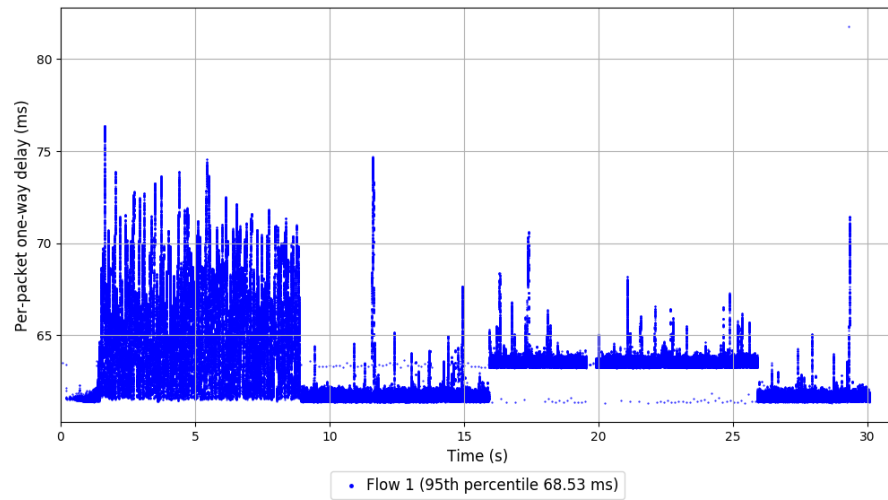
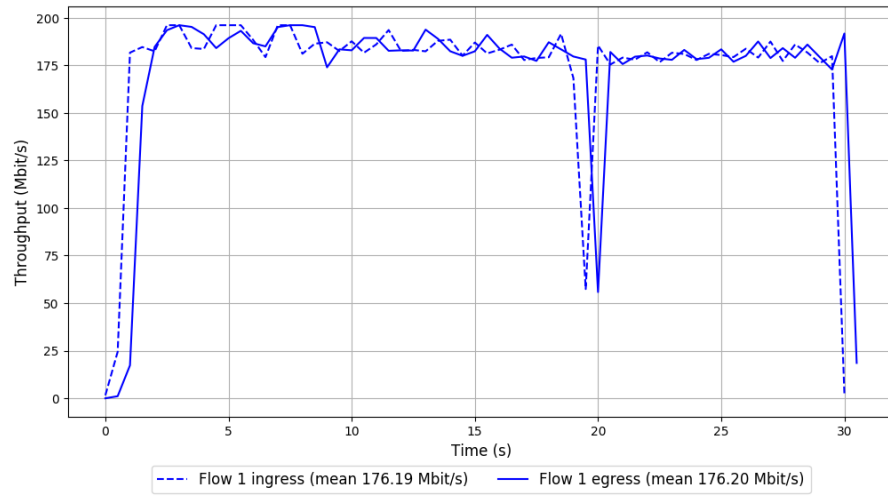
-- Flow 1:

Average throughput: 176.20 Mbit/s

95th percentile per-packet one-way delay: 68.532 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-06-19 07:30:48

End at: 2018-06-19 07:31:18

Local clock offset: 0.068 ms

Remote clock offset: -0.099 ms

Below is generated by plot.py at 2018-06-19 09:16:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.04 Mbit/s

95th percentile per-packet one-way delay: 70.589 ms

Loss rate: 0.00%

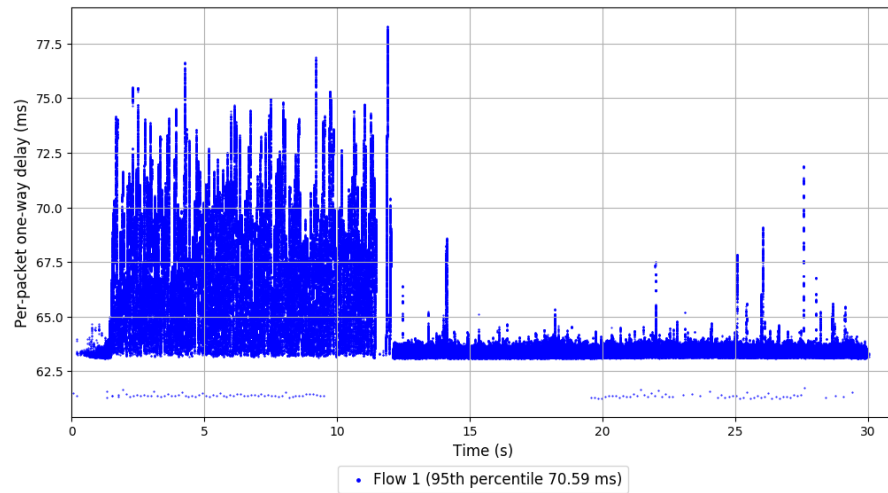
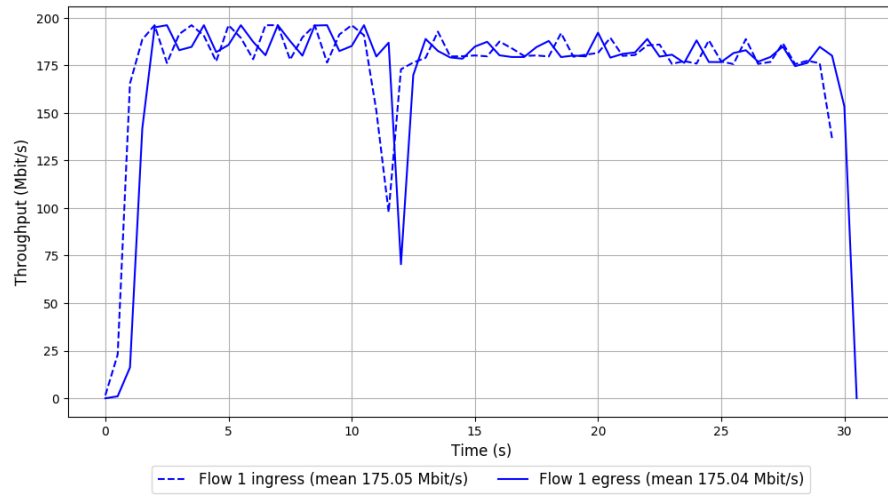
-- Flow 1:

Average throughput: 175.04 Mbit/s

95th percentile per-packet one-way delay: 70.589 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link

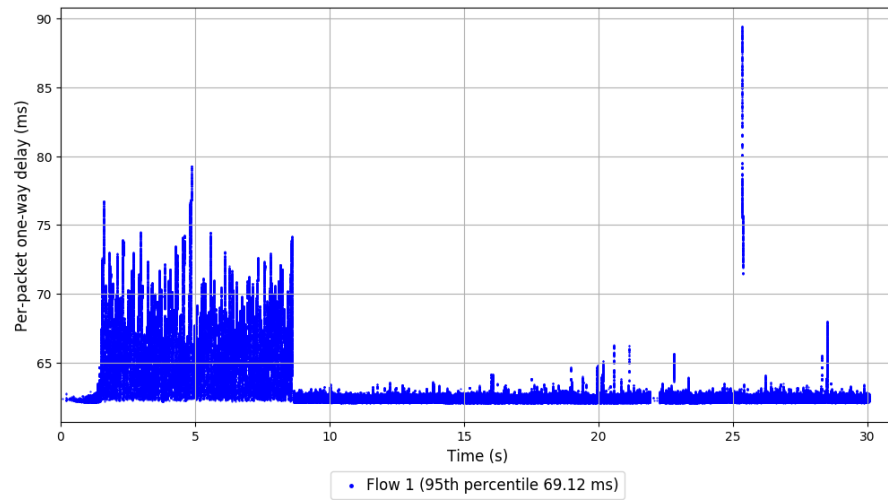
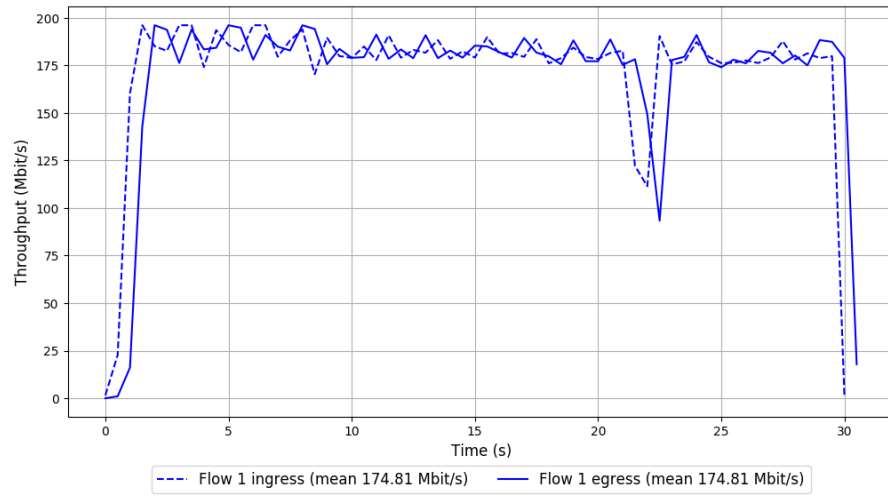


Run 7: Statistics of TCP BBR

Start at: 2018-06-19 07:50:54
End at: 2018-06-19 07:51:24
Local clock offset: -0.031 ms
Remote clock offset: -1.312 ms

Below is generated by plot.py at 2018-06-19 09:16:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 174.81 Mbit/s
95th percentile per-packet one-way delay: 69.116 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 174.81 Mbit/s
95th percentile per-packet one-way delay: 69.116 ms
Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-06-19 08:10:59

End at: 2018-06-19 08:11:29

Local clock offset: -0.07 ms

Remote clock offset: 0.088 ms

Below is generated by plot.py at 2018-06-19 09:16:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.38 Mbit/s

95th percentile per-packet one-way delay: 71.626 ms

Loss rate: 0.00%

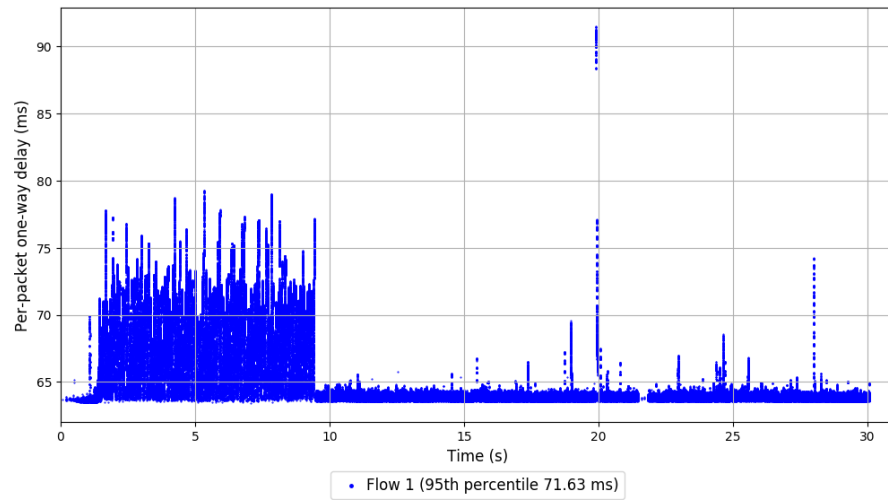
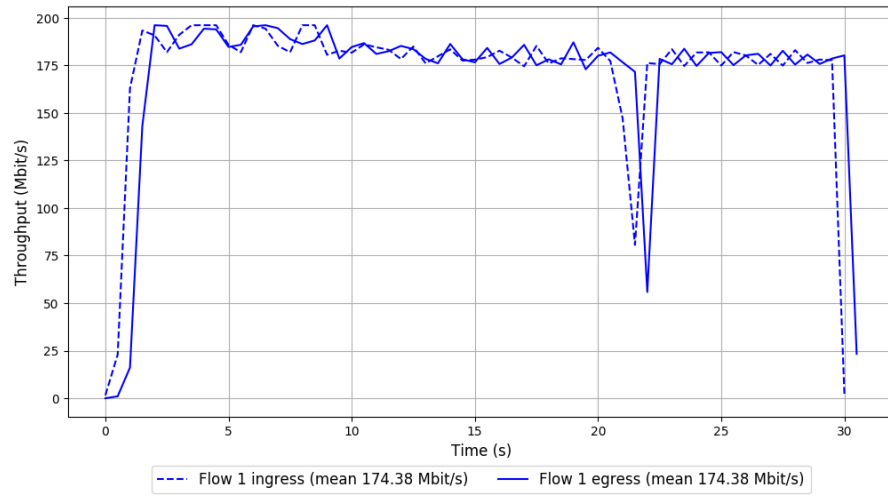
-- Flow 1:

Average throughput: 174.38 Mbit/s

95th percentile per-packet one-way delay: 71.626 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-06-19 08:31:12

End at: 2018-06-19 08:31:42

Local clock offset: -0.021 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at 2018-06-19 09:19:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.19 Mbit/s

95th percentile per-packet one-way delay: 64.118 ms

Loss rate: 0.00%

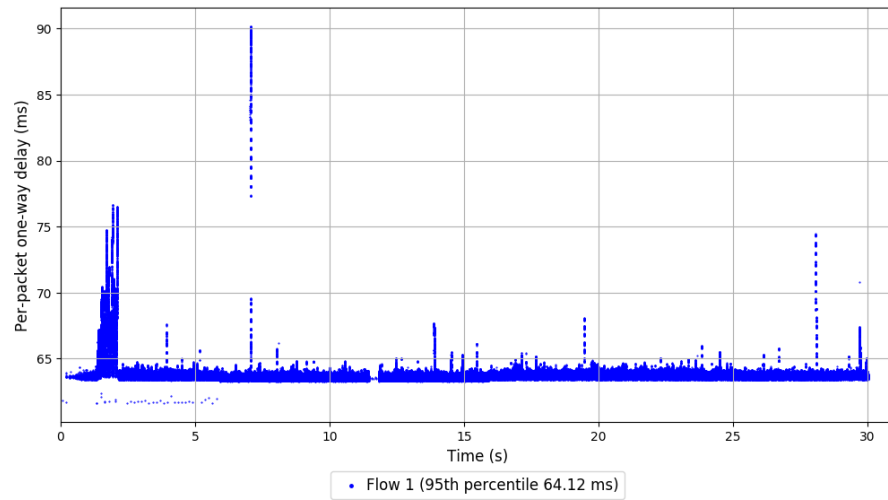
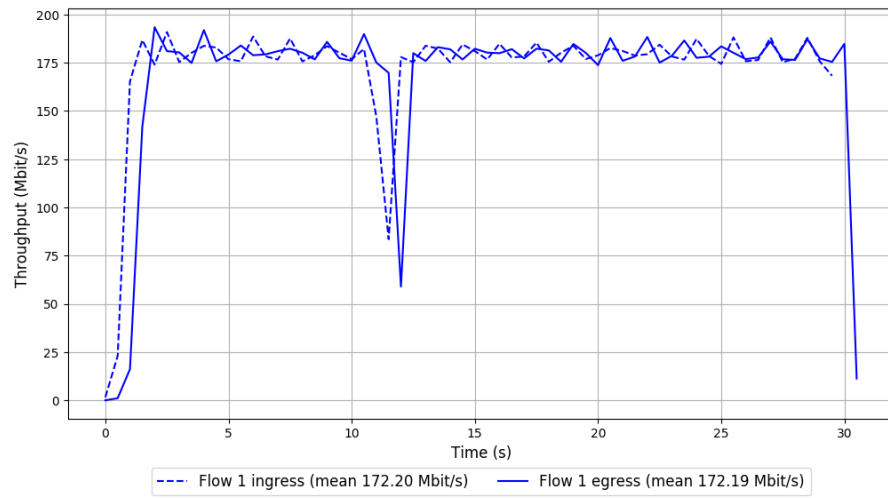
-- Flow 1:

Average throughput: 172.19 Mbit/s

95th percentile per-packet one-way delay: 64.118 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-06-19 08:51:07

End at: 2018-06-19 08:51:37

Local clock offset: -0.087 ms

Remote clock offset: 0.168 ms

Below is generated by plot.py at 2018-06-19 09:19:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.67 Mbit/s

95th percentile per-packet one-way delay: 69.593 ms

Loss rate: 0.00%

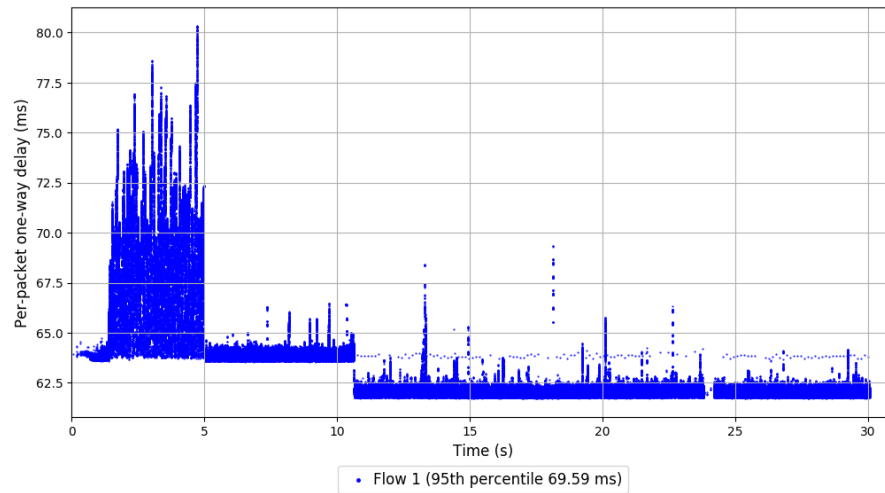
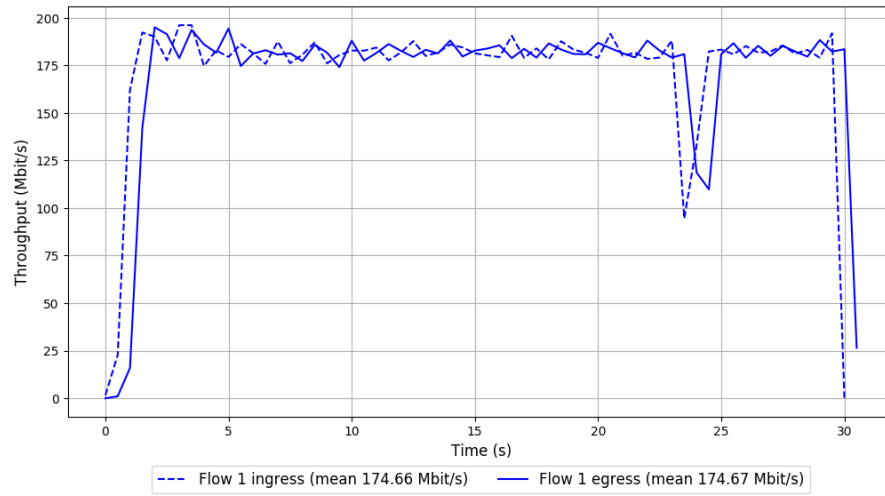
-- Flow 1:

Average throughput: 174.67 Mbit/s

95th percentile per-packet one-way delay: 69.593 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link

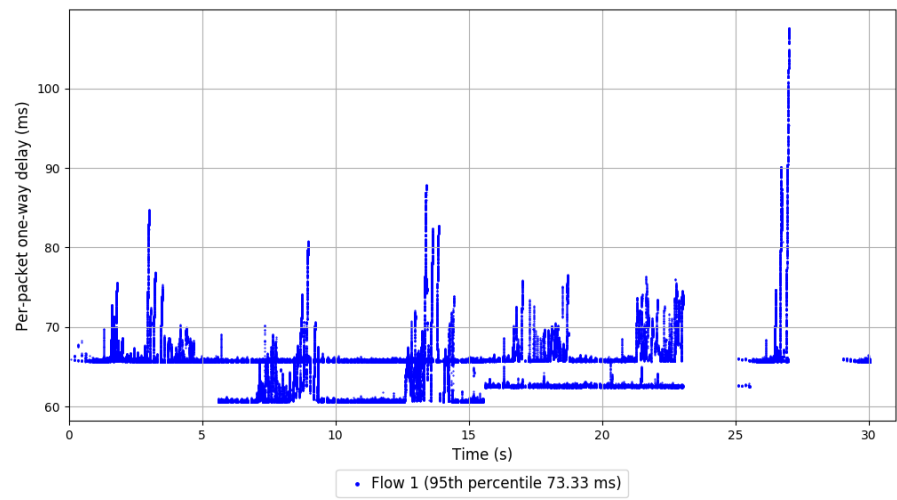
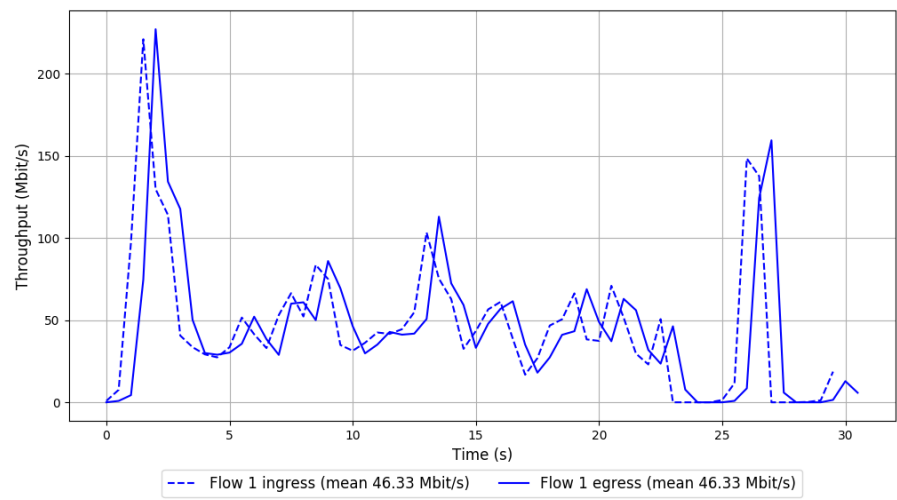


Run 1: Statistics of Copa

Start at: 2018-06-19 05:59:12
End at: 2018-06-19 05:59:42
Local clock offset: -0.019 ms
Remote clock offset: -0.981 ms

Below is generated by plot.py at 2018-06-19 09:19:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 46.33 Mbit/s
95th percentile per-packet one-way delay: 73.332 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 46.33 Mbit/s
95th percentile per-packet one-way delay: 73.332 ms
Loss rate: 0.00%

Run 1: Report of Copa — Data Link

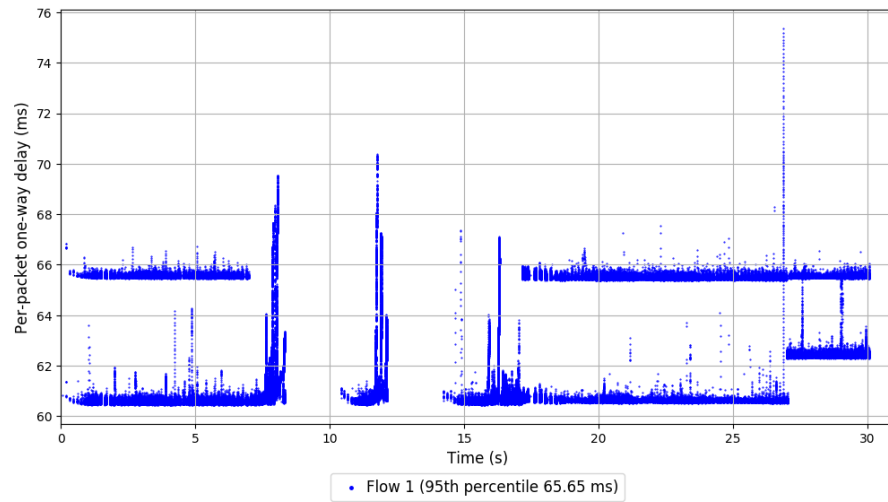
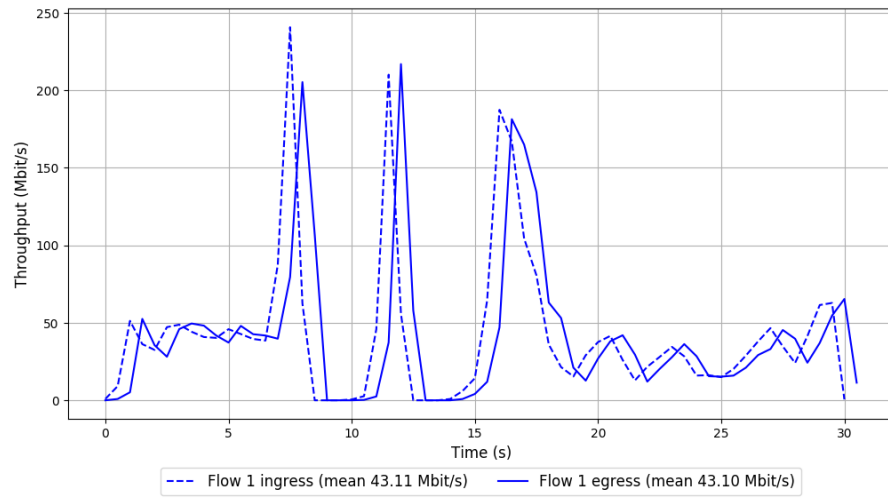


Run 2: Statistics of Copa

Start at: 2018-06-19 06:18:41
End at: 2018-06-19 06:19:11
Local clock offset: 0.028 ms
Remote clock offset: -1.017 ms

Below is generated by plot.py at 2018-06-19 09:19:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 43.10 Mbit/s
95th percentile per-packet one-way delay: 65.651 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 43.10 Mbit/s
95th percentile per-packet one-way delay: 65.651 ms
Loss rate: 0.00%

Run 2: Report of Copa — Data Link

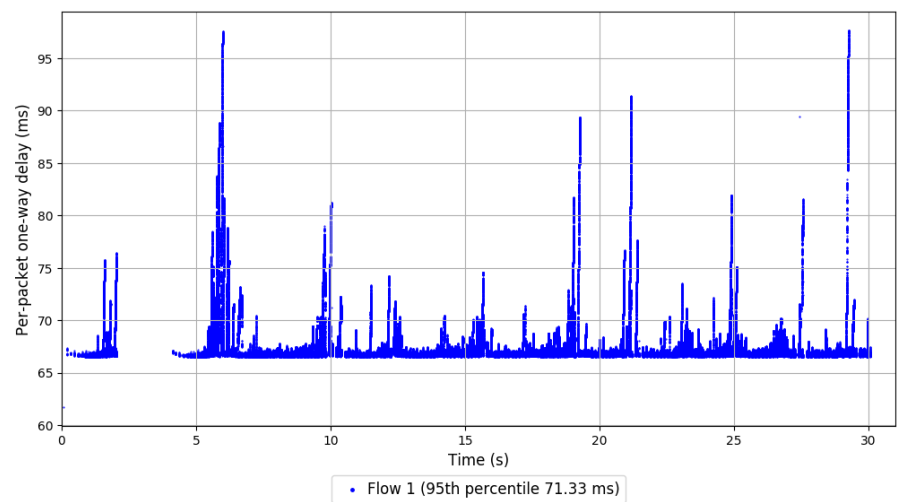
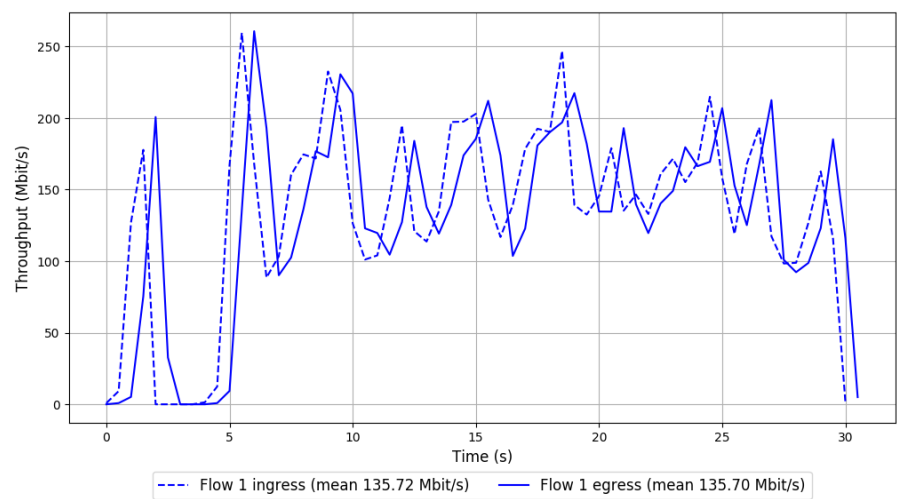


Run 3: Statistics of Copa

Start at: 2018-06-19 06:38:28
End at: 2018-06-19 06:38:58
Local clock offset: -0.055 ms
Remote clock offset: 0.011 ms

Below is generated by plot.py at 2018-06-19 09:20:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 135.70 Mbit/s
95th percentile per-packet one-way delay: 71.325 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 135.70 Mbit/s
95th percentile per-packet one-way delay: 71.325 ms
Loss rate: 0.00%

Run 3: Report of Copa — Data Link

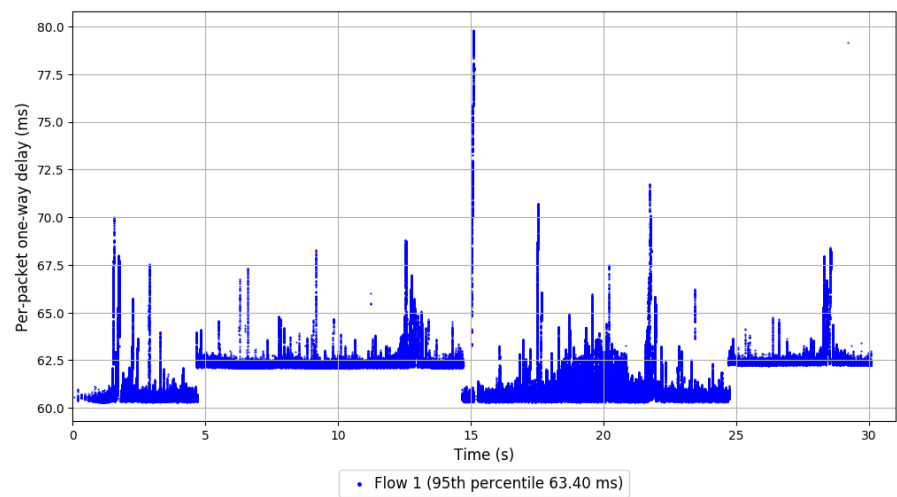
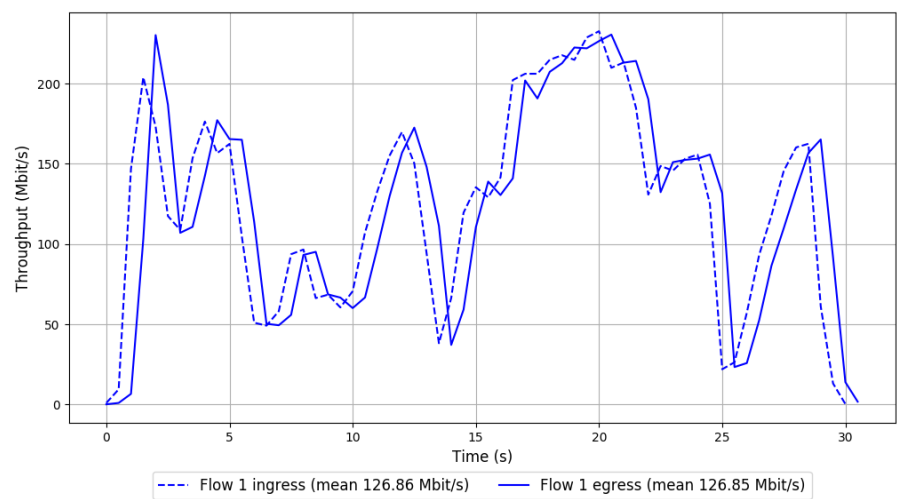


Run 4: Statistics of Copa

Start at: 2018-06-19 06:58:43
End at: 2018-06-19 06:59:13
Local clock offset: -0.131 ms
Remote clock offset: -1.226 ms

Below is generated by plot.py at 2018-06-19 09:20:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 126.85 Mbit/s
95th percentile per-packet one-way delay: 63.396 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 126.85 Mbit/s
95th percentile per-packet one-way delay: 63.396 ms
Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-06-19 07:18:57

End at: 2018-06-19 07:19:28

Local clock offset: -0.001 ms

Remote clock offset: 0.984 ms

Below is generated by plot.py at 2018-06-19 09:20:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 140.22 Mbit/s

95th percentile per-packet one-way delay: 67.579 ms

Loss rate: 0.00%

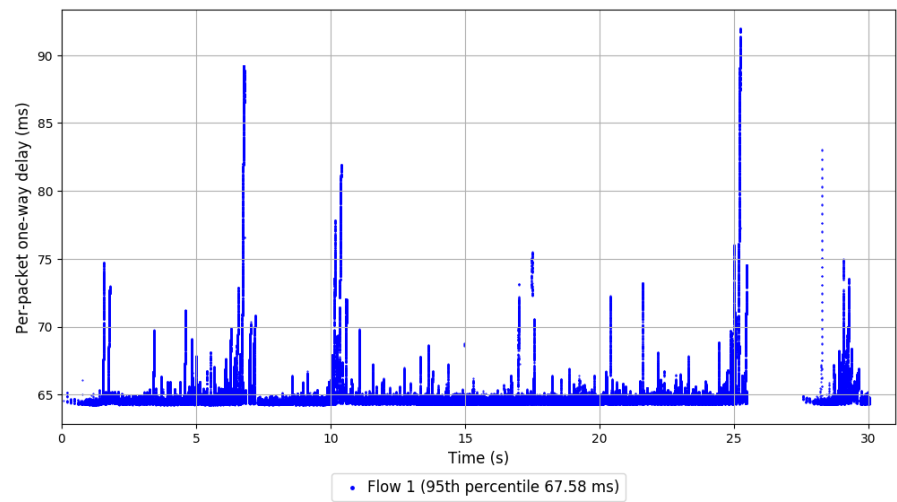
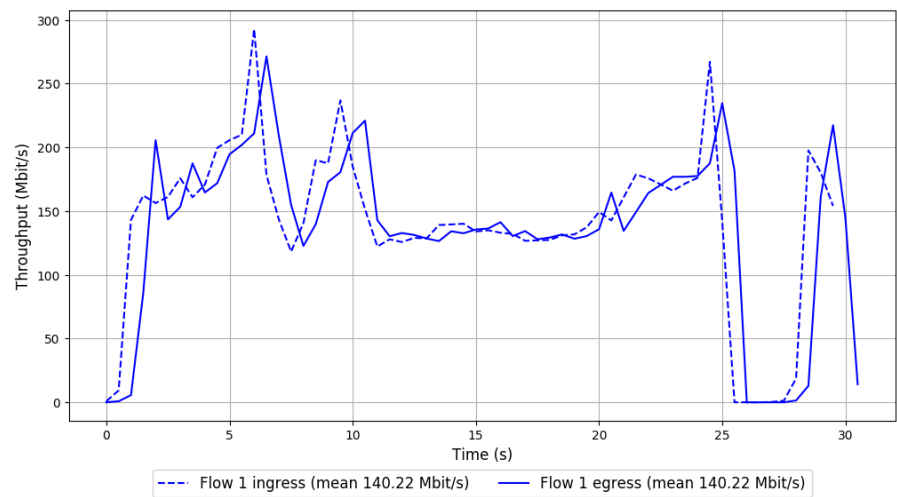
-- Flow 1:

Average throughput: 140.22 Mbit/s

95th percentile per-packet one-way delay: 67.579 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-06-19 07:39:14

End at: 2018-06-19 07:39:44

Local clock offset: 0.007 ms

Remote clock offset: 1.374 ms

Below is generated by plot.py at 2018-06-19 09:20:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.34 Mbit/s

95th percentile per-packet one-way delay: 65.084 ms

Loss rate: 0.01%

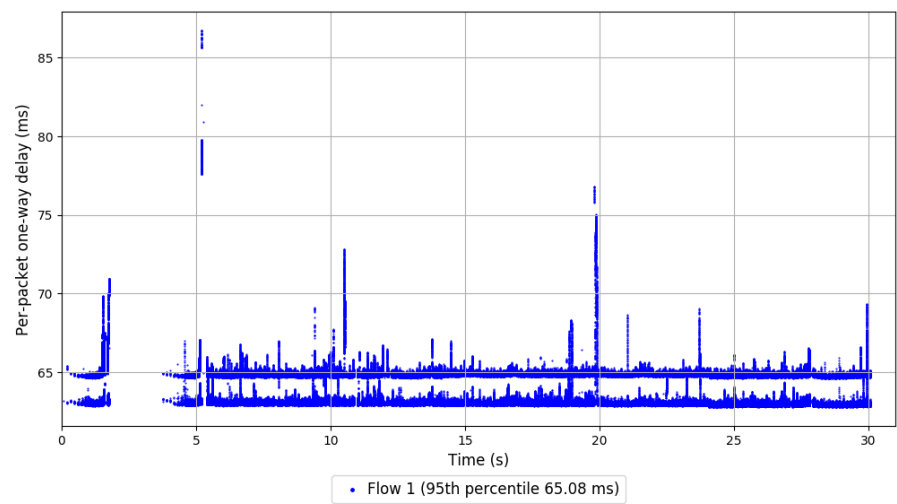
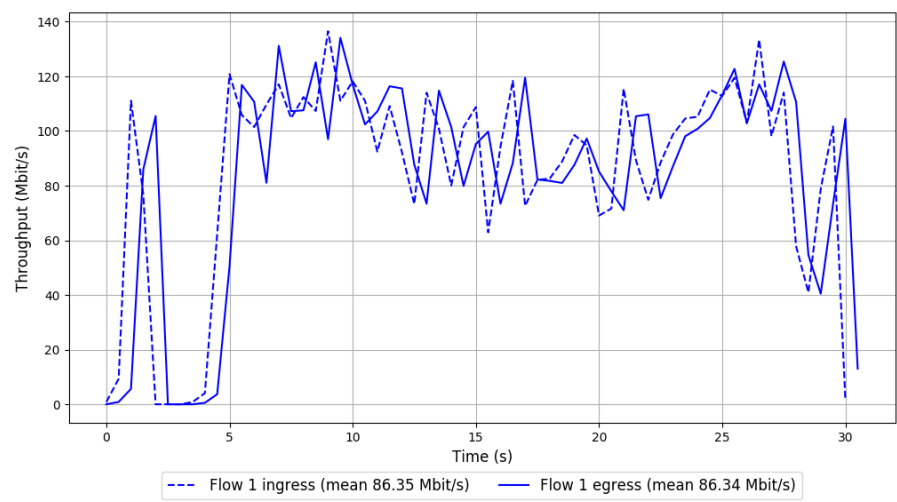
-- Flow 1:

Average throughput: 86.34 Mbit/s

95th percentile per-packet one-way delay: 65.084 ms

Loss rate: 0.01%

Run 6: Report of Copa — Data Link

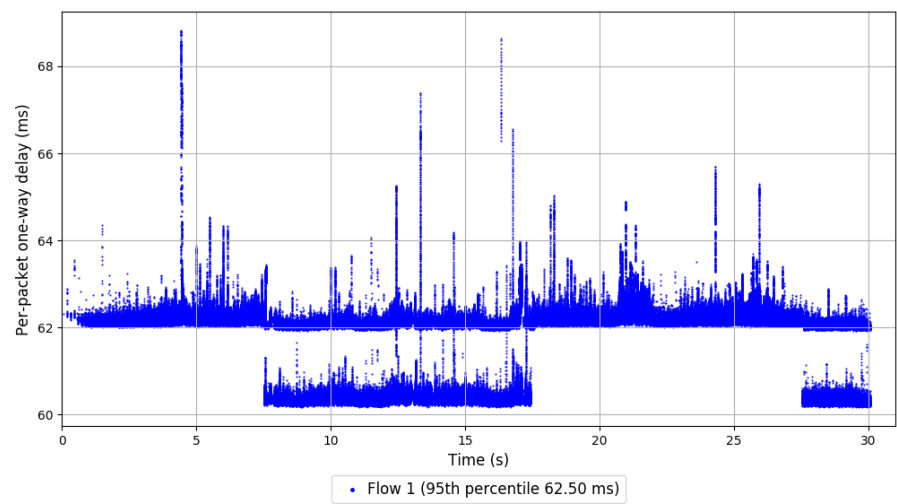
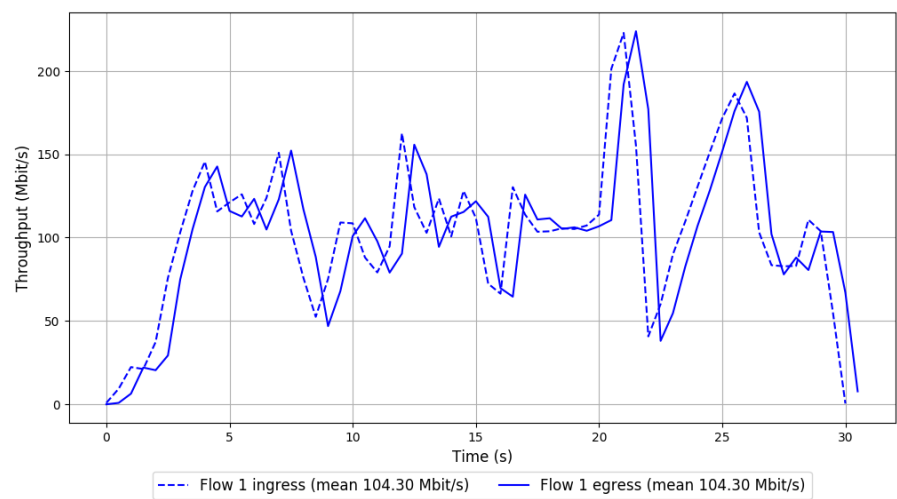


Run 7: Statistics of Copa

Start at: 2018-06-19 07:59:20
End at: 2018-06-19 07:59:50
Local clock offset: 0.011 ms
Remote clock offset: -1.309 ms

Below is generated by plot.py at 2018-06-19 09:21:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 104.30 Mbit/s
95th percentile per-packet one-way delay: 62.503 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 104.30 Mbit/s
95th percentile per-packet one-way delay: 62.503 ms
Loss rate: 0.00%

Run 7: Report of Copa — Data Link

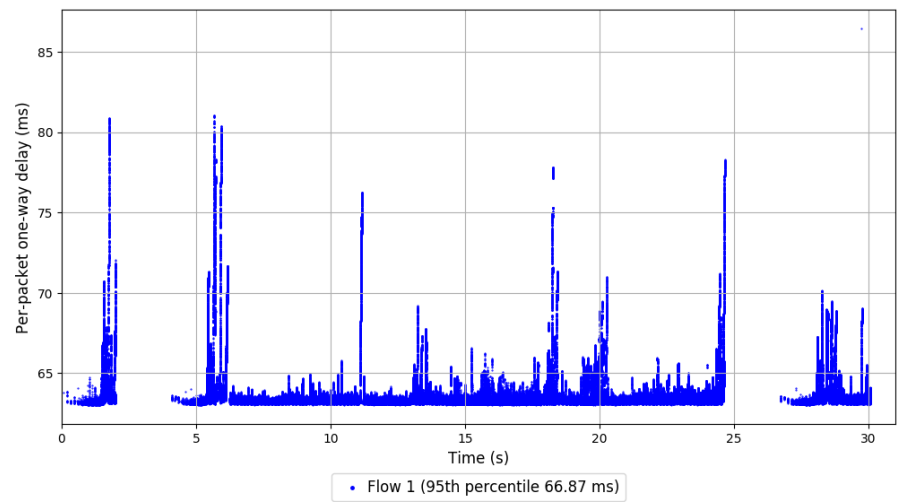
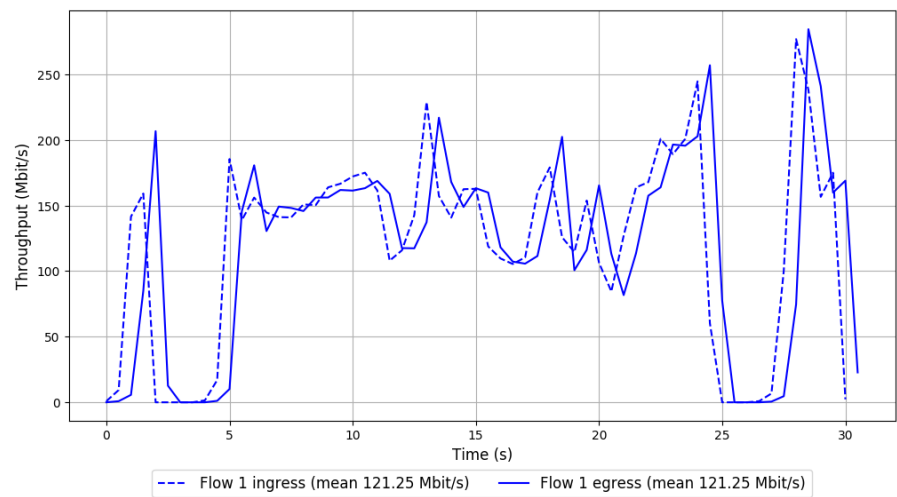


Run 8: Statistics of Copa

Start at: 2018-06-19 08:19:24
End at: 2018-06-19 08:19:54
Local clock offset: -0.014 ms
Remote clock offset: -0.255 ms

Below is generated by plot.py at 2018-06-19 09:21:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 121.25 Mbit/s
95th percentile per-packet one-way delay: 66.867 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 121.25 Mbit/s
95th percentile per-packet one-way delay: 66.867 ms
Loss rate: 0.00%

Run 8: Report of Copa — Data Link

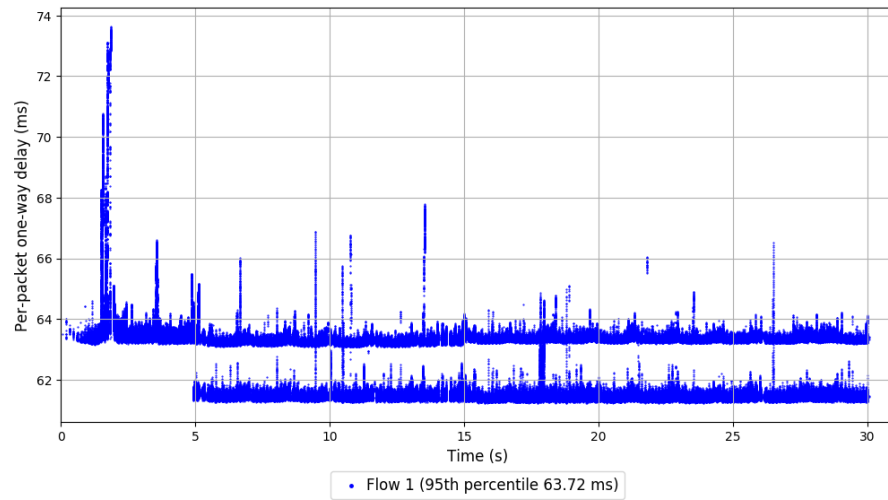
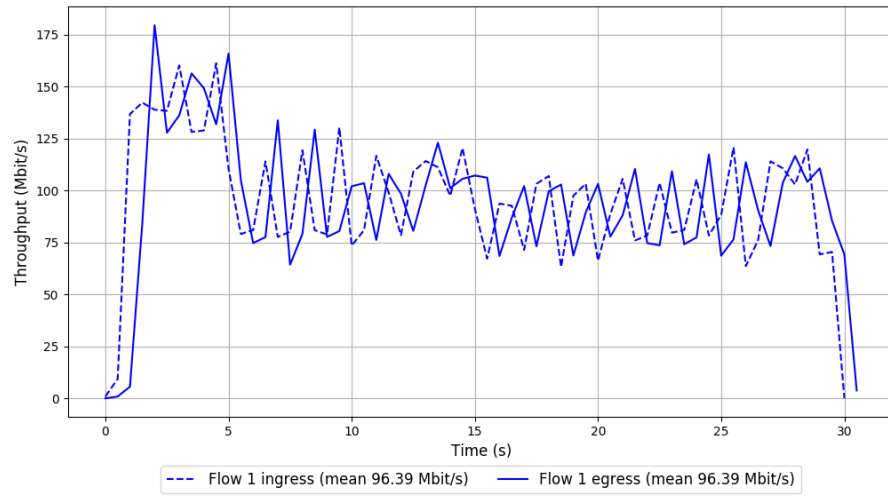


Run 9: Statistics of Copa

Start at: 2018-06-19 08:39:33
End at: 2018-06-19 08:40:03
Local clock offset: 0.031 ms
Remote clock offset: -0.182 ms

Below is generated by plot.py at 2018-06-19 09:22:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.39 Mbit/s
95th percentile per-packet one-way delay: 63.722 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.39 Mbit/s
95th percentile per-packet one-way delay: 63.722 ms
Loss rate: 0.00%

Run 9: Report of Copa — Data Link

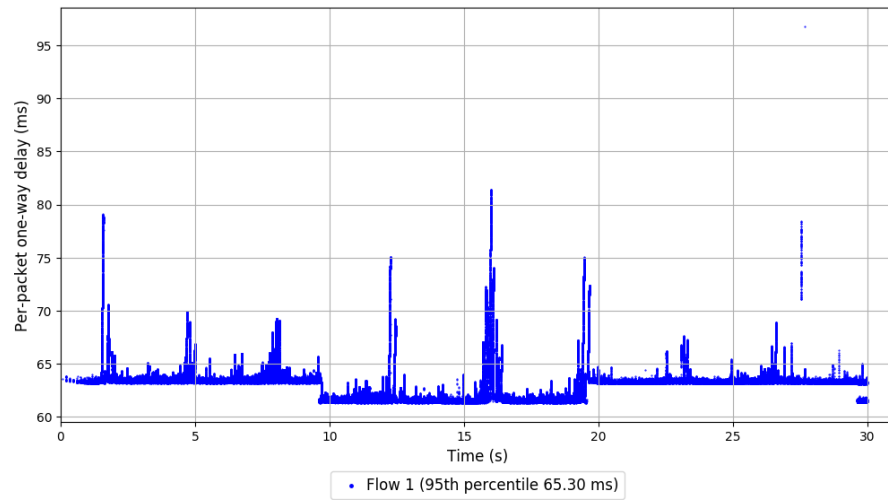
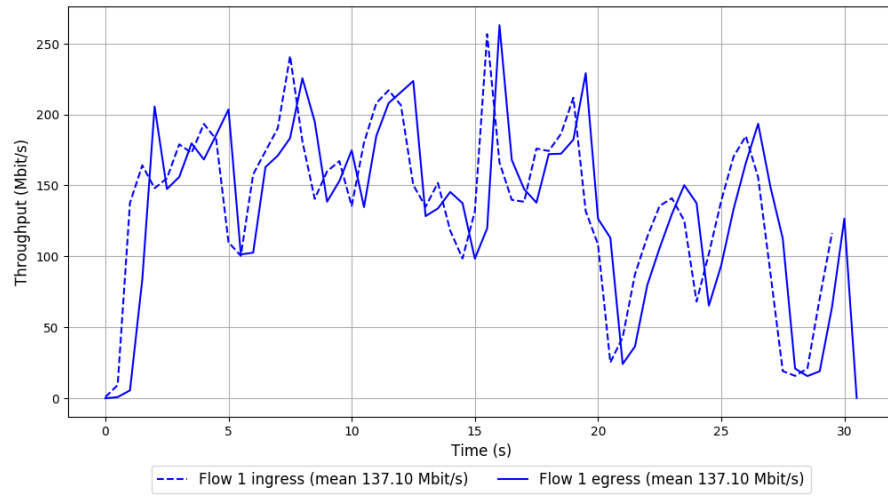


Run 10: Statistics of Copa

Start at: 2018-06-19 08:59:28
End at: 2018-06-19 08:59:58
Local clock offset: -0.125 ms
Remote clock offset: -0.211 ms

Below is generated by plot.py at 2018-06-19 09:24:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 137.10 Mbit/s
95th percentile per-packet one-way delay: 65.296 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 137.10 Mbit/s
95th percentile per-packet one-way delay: 65.296 ms
Loss rate: 0.00%

Run 10: Report of Copa — Data Link

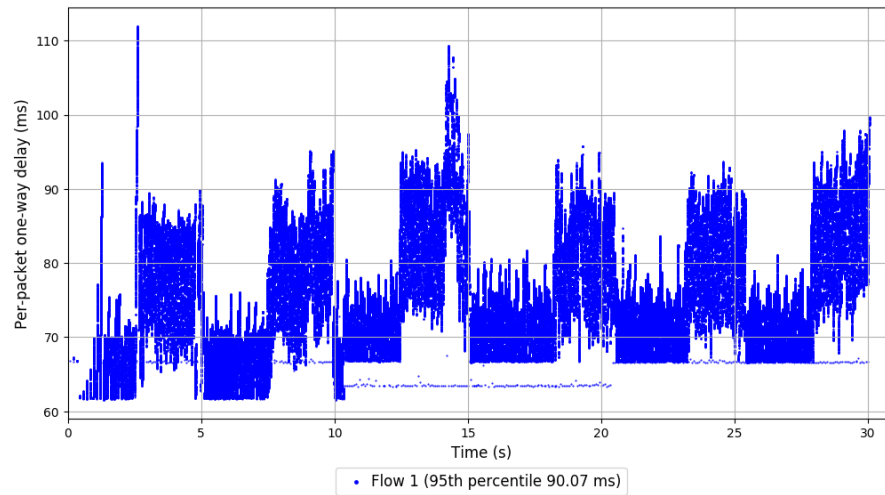
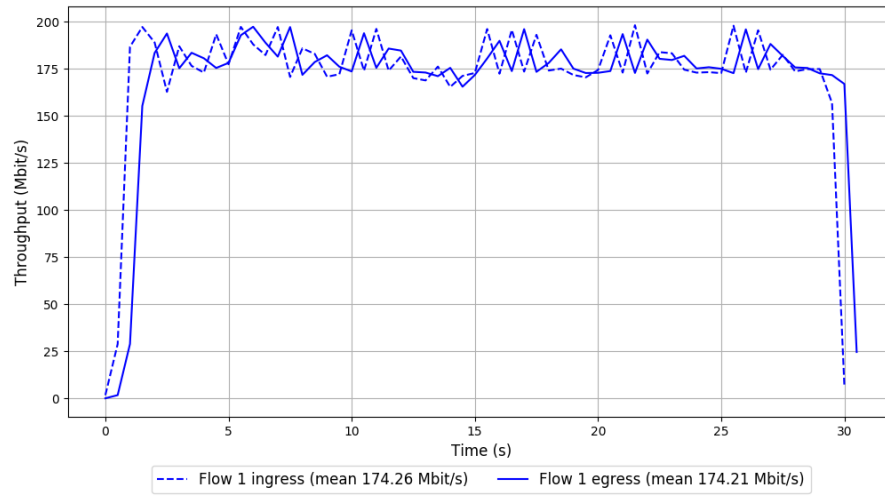


Run 1: Statistics of TCP Cubic

Start at: 2018-06-19 05:57:58
End at: 2018-06-19 05:58:28
Local clock offset: 0.017 ms
Remote clock offset: -0.066 ms

Below is generated by plot.py at 2018-06-19 09:24:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 174.21 Mbit/s
95th percentile per-packet one-way delay: 90.074 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 174.21 Mbit/s
95th percentile per-packet one-way delay: 90.074 ms
Loss rate: 0.07%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-06-19 06:17:26

End at: 2018-06-19 06:17:56

Local clock offset: 0.031 ms

Remote clock offset: 1.249 ms

Below is generated by plot.py at 2018-06-19 09:24:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 177.33 Mbit/s

95th percentile per-packet one-way delay: 77.498 ms

Loss rate: 0.05%

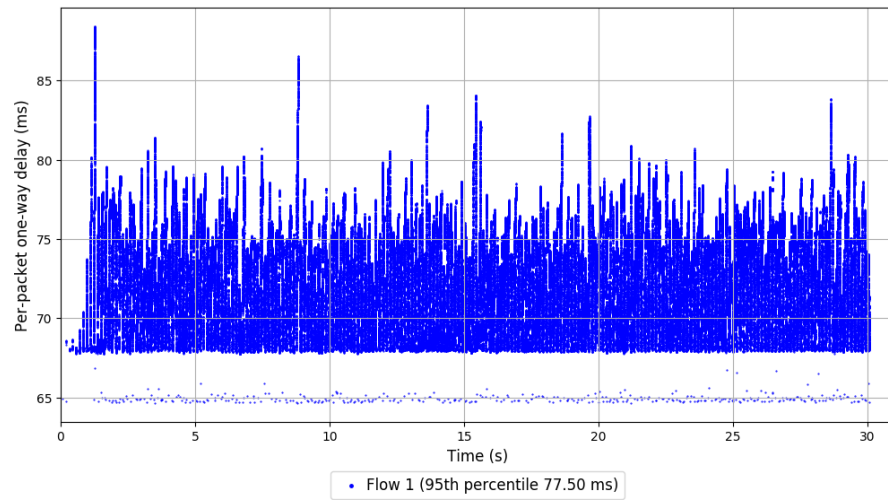
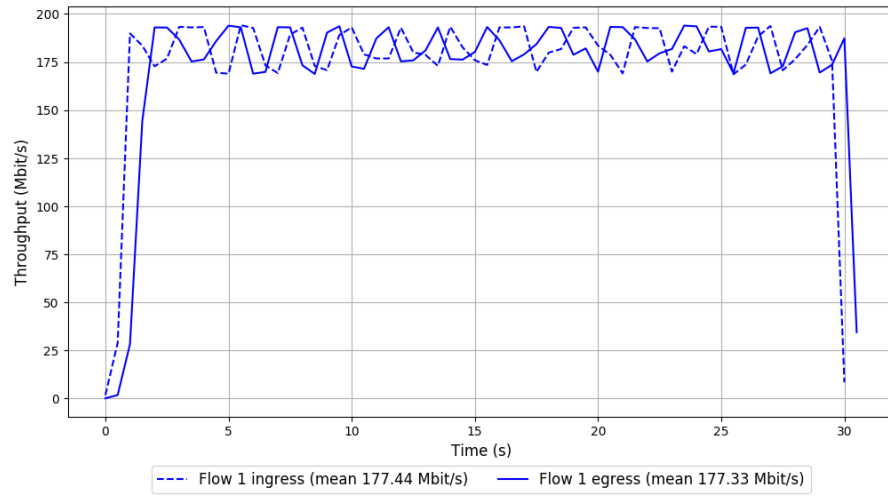
-- Flow 1:

Average throughput: 177.33 Mbit/s

95th percentile per-packet one-way delay: 77.498 ms

Loss rate: 0.05%

Run 2: Report of TCP Cubic — Data Link

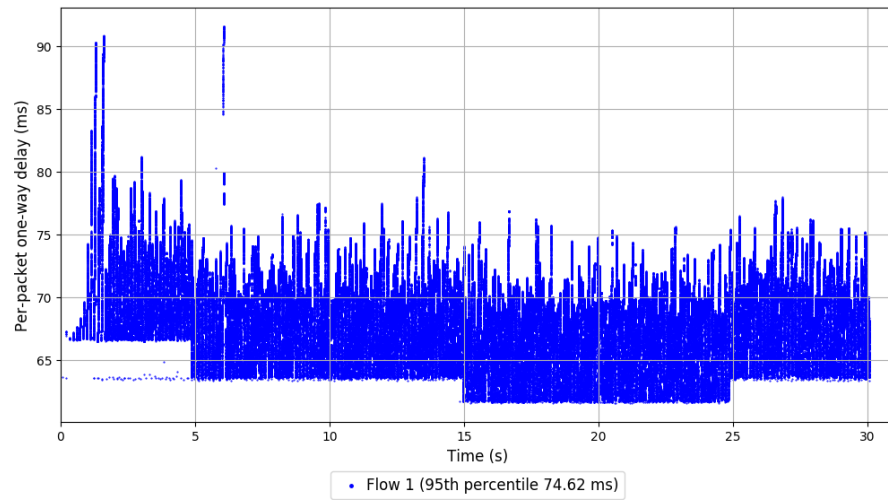
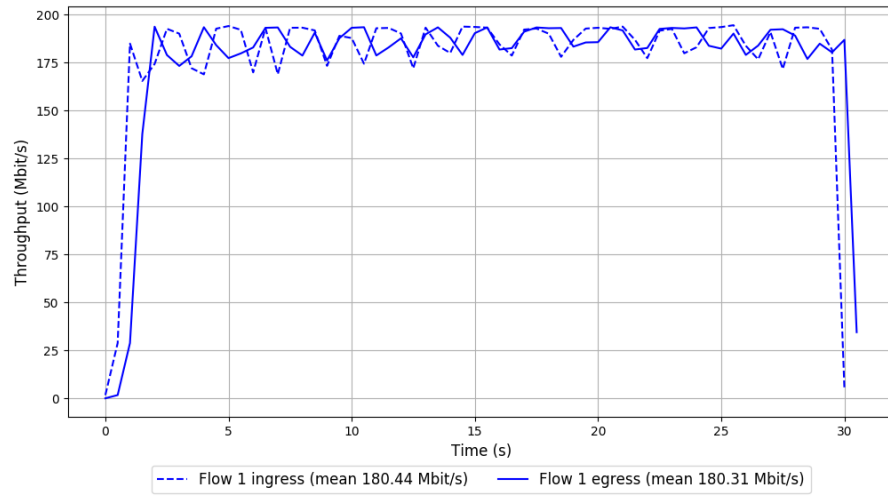


Run 3: Statistics of TCP Cubic

Start at: 2018-06-19 06:37:13
End at: 2018-06-19 06:37:43
Local clock offset: -0.029 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2018-06-19 09:24:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 180.31 Mbit/s
95th percentile per-packet one-way delay: 74.623 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 180.31 Mbit/s
95th percentile per-packet one-way delay: 74.623 ms
Loss rate: 0.07%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-06-19 06:57:31

End at: 2018-06-19 06:58:01

Local clock offset: -0.095 ms

Remote clock offset: 1.255 ms

Below is generated by plot.py at 2018-06-19 09:24:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 139.26 Mbit/s

95th percentile per-packet one-way delay: 73.258 ms

Loss rate: 0.00%

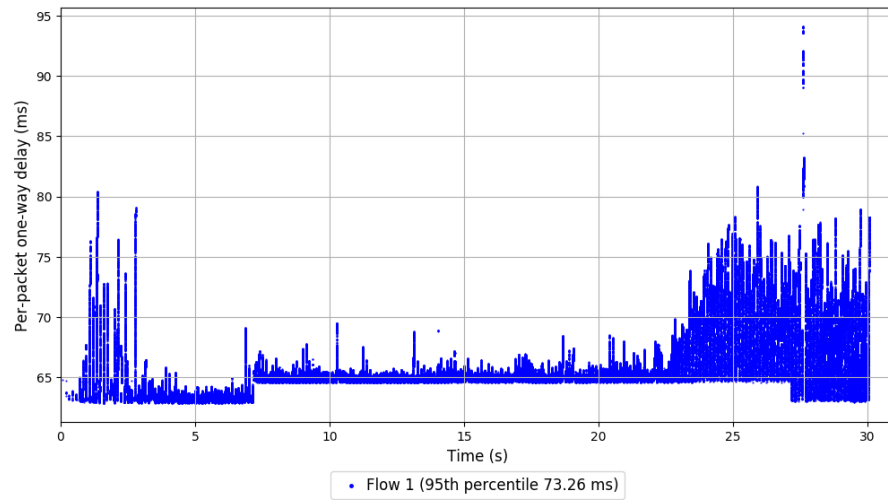
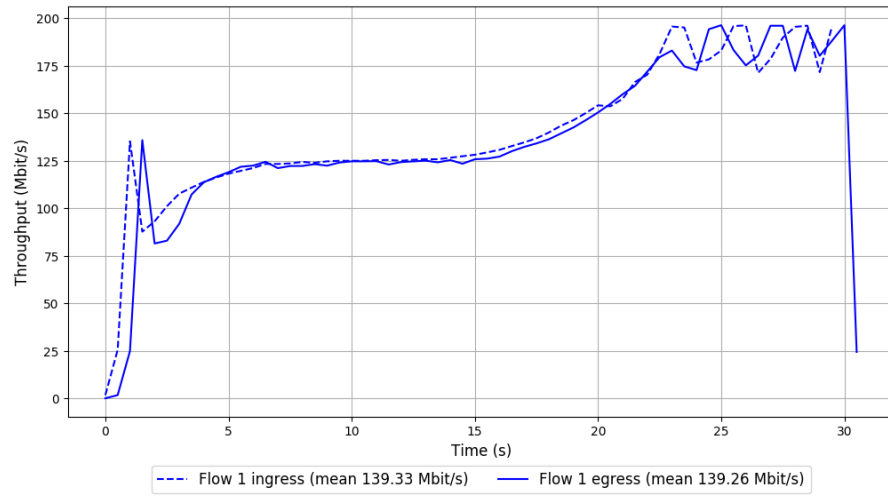
-- Flow 1:

Average throughput: 139.26 Mbit/s

95th percentile per-packet one-way delay: 73.258 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-06-19 07:17:45

End at: 2018-06-19 07:18:15

Local clock offset: 0.028 ms

Remote clock offset: 1.087 ms

Below is generated by plot.py at 2018-06-19 09:24:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 124.80 Mbit/s

95th percentile per-packet one-way delay: 73.425 ms

Loss rate: 0.01%

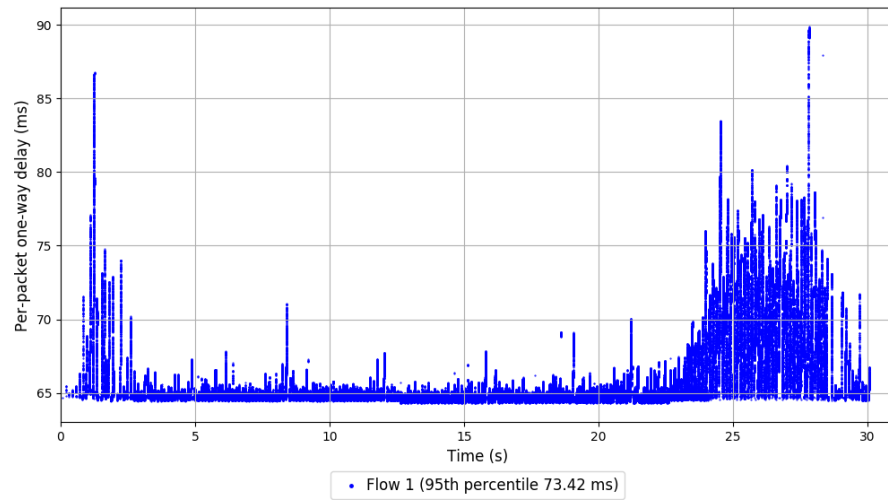
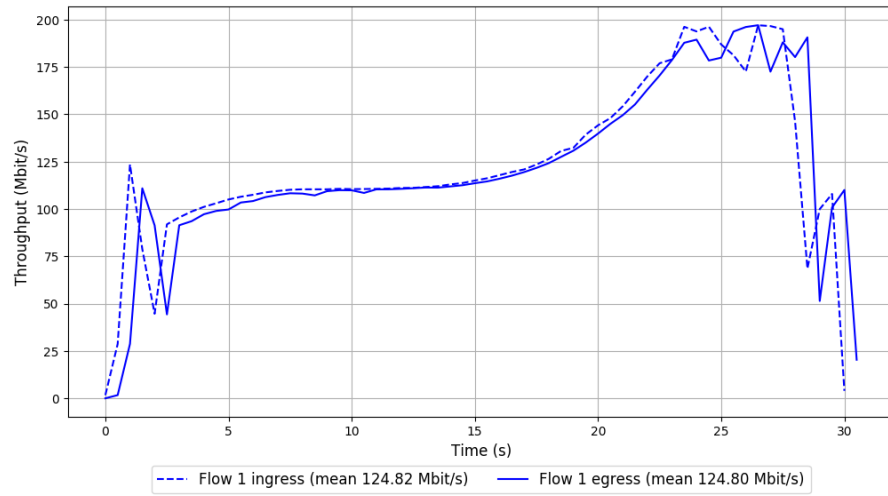
-- Flow 1:

Average throughput: 124.80 Mbit/s

95th percentile per-packet one-way delay: 73.425 ms

Loss rate: 0.01%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-06-19 07:38:02

End at: 2018-06-19 07:38:32

Local clock offset: -0.011 ms

Remote clock offset: 0.24 ms

Below is generated by plot.py at 2018-06-19 09:24:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.47 Mbit/s

95th percentile per-packet one-way delay: 73.396 ms

Loss rate: 0.07%

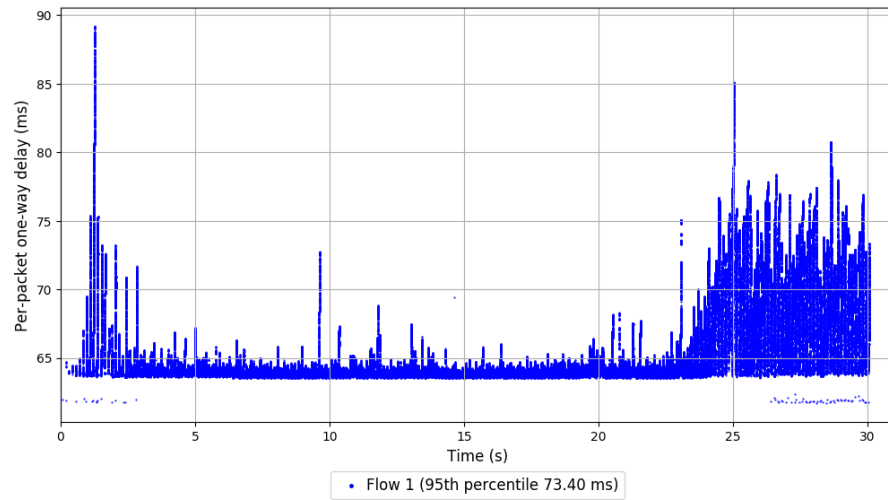
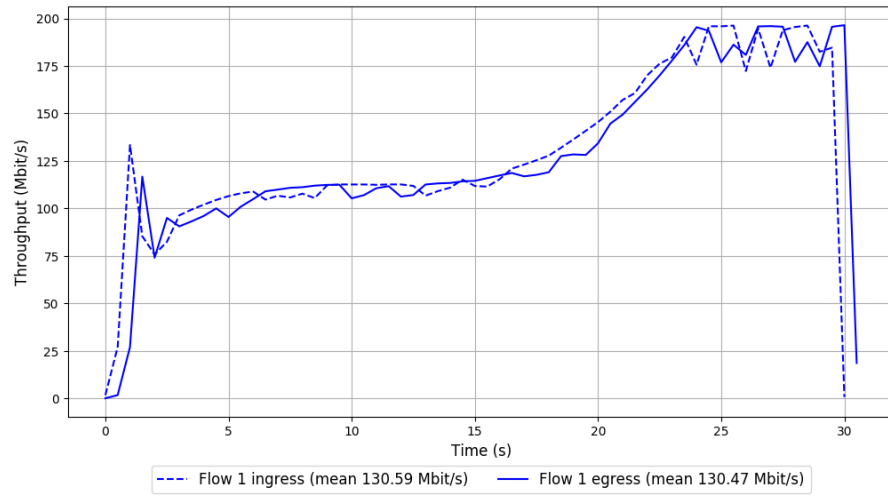
-- Flow 1:

Average throughput: 130.47 Mbit/s

95th percentile per-packet one-way delay: 73.396 ms

Loss rate: 0.07%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-06-19 07:58:06

End at: 2018-06-19 07:58:36

Local clock offset: -0.056 ms

Remote clock offset: 0.06 ms

Below is generated by plot.py at 2018-06-19 09:25:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.80 Mbit/s

95th percentile per-packet one-way delay: 74.810 ms

Loss rate: 0.00%

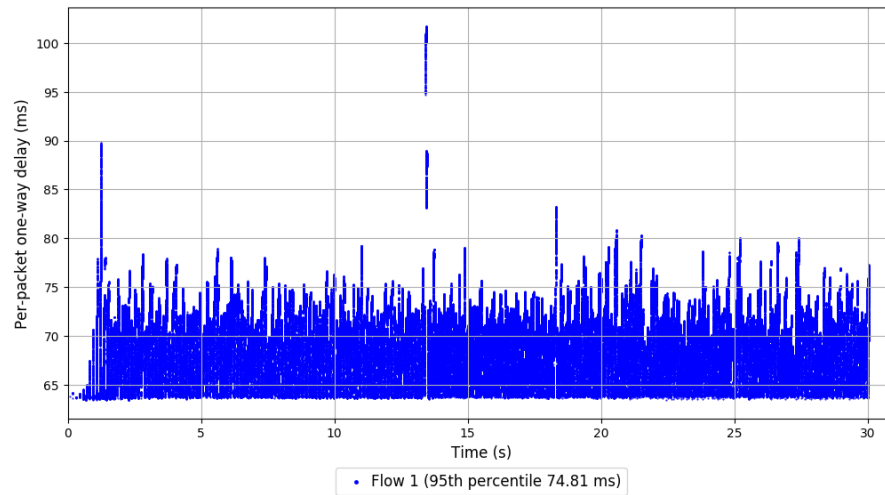
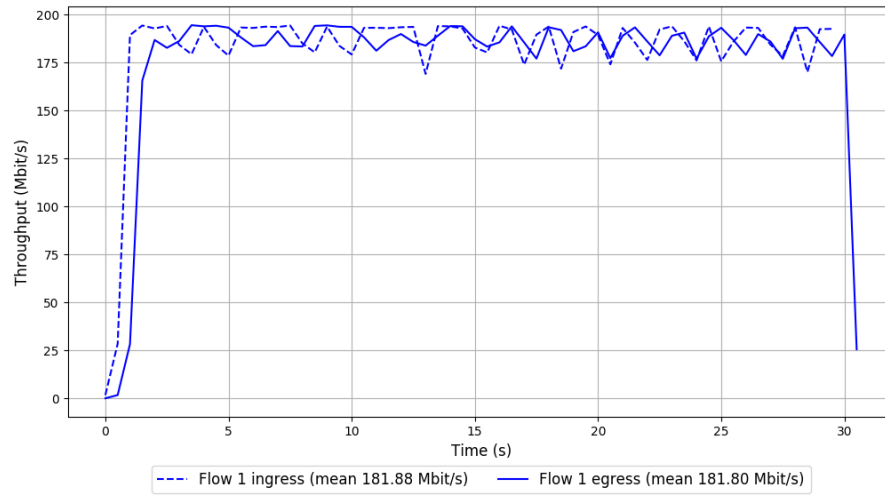
-- Flow 1:

Average throughput: 181.80 Mbit/s

95th percentile per-packet one-way delay: 74.810 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link

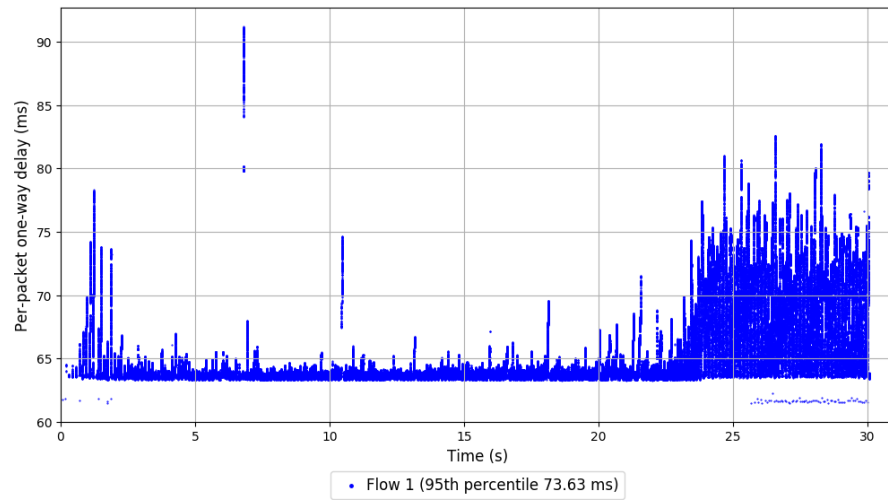
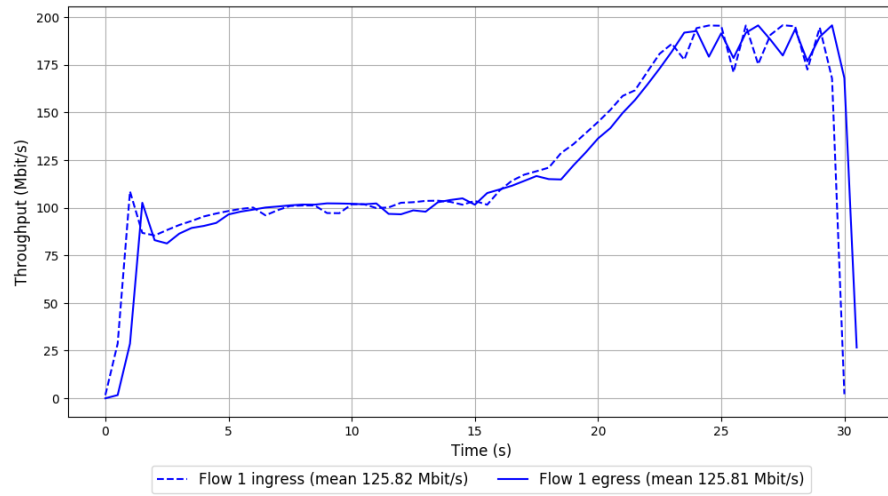


Run 8: Statistics of TCP Cubic

Start at: 2018-06-19 08:18:12
End at: 2018-06-19 08:18:42
Local clock offset: -0.028 ms
Remote clock offset: -0.122 ms

Below is generated by plot.py at 2018-06-19 09:25:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 125.81 Mbit/s
95th percentile per-packet one-way delay: 73.630 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 125.81 Mbit/s
95th percentile per-packet one-way delay: 73.630 ms
Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-06-19 08:38:20

End at: 2018-06-19 08:38:50

Local clock offset: 0.025 ms

Remote clock offset: 0.128 ms

Below is generated by plot.py at 2018-06-19 09:26:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 137.41 Mbit/s

95th percentile per-packet one-way delay: 73.987 ms

Loss rate: 0.08%

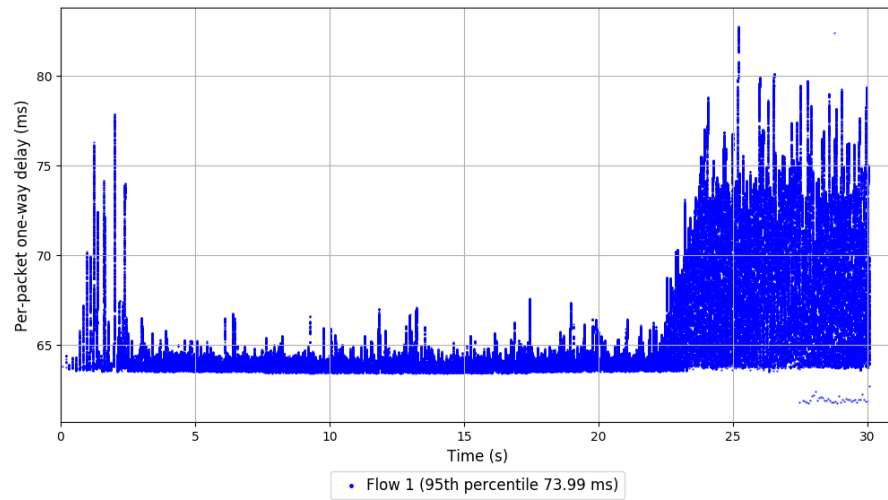
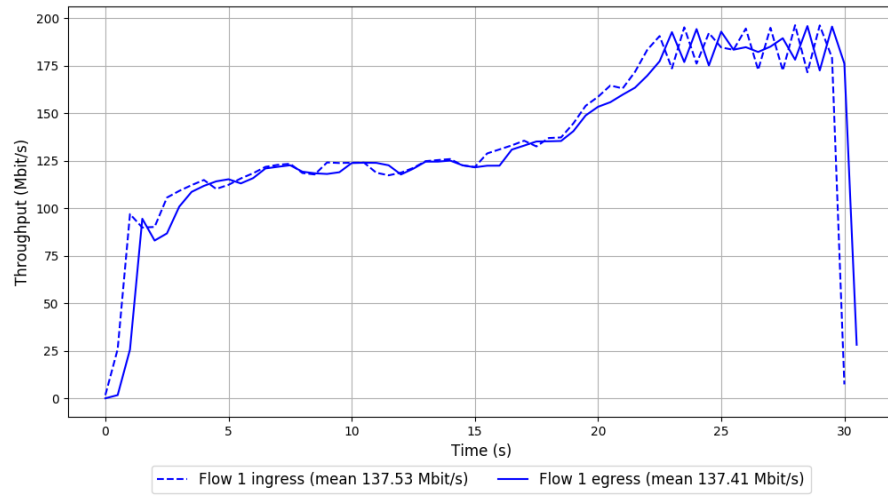
-- Flow 1:

Average throughput: 137.41 Mbit/s

95th percentile per-packet one-way delay: 73.987 ms

Loss rate: 0.08%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-06-19 08:58:16

End at: 2018-06-19 08:58:46

Local clock offset: -0.057 ms

Remote clock offset: 0.034 ms

Below is generated by plot.py at 2018-06-19 09:26:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 132.44 Mbit/s

95th percentile per-packet one-way delay: 72.351 ms

Loss rate: 0.00%

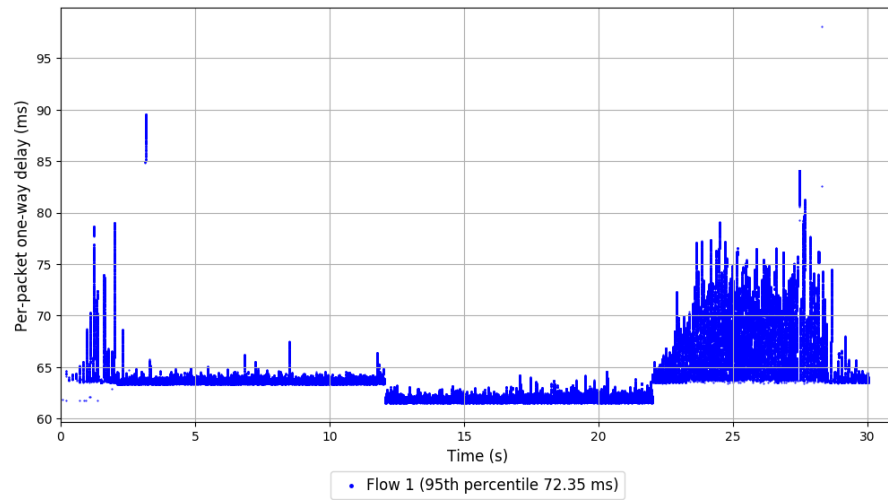
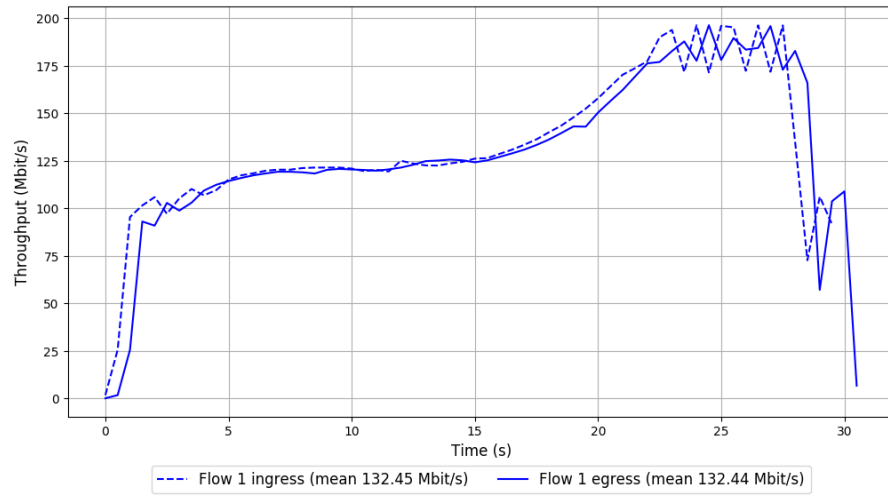
-- Flow 1:

Average throughput: 132.44 Mbit/s

95th percentile per-packet one-way delay: 72.351 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-06-19 06:02:52

End at: 2018-06-19 06:03:22

Local clock offset: 0.042 ms

Remote clock offset: 1.266 ms

Below is generated by plot.py at 2018-06-19 09:39:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 672.18 Mbit/s

95th percentile per-packet one-way delay: 261.715 ms

Loss rate: 0.72%

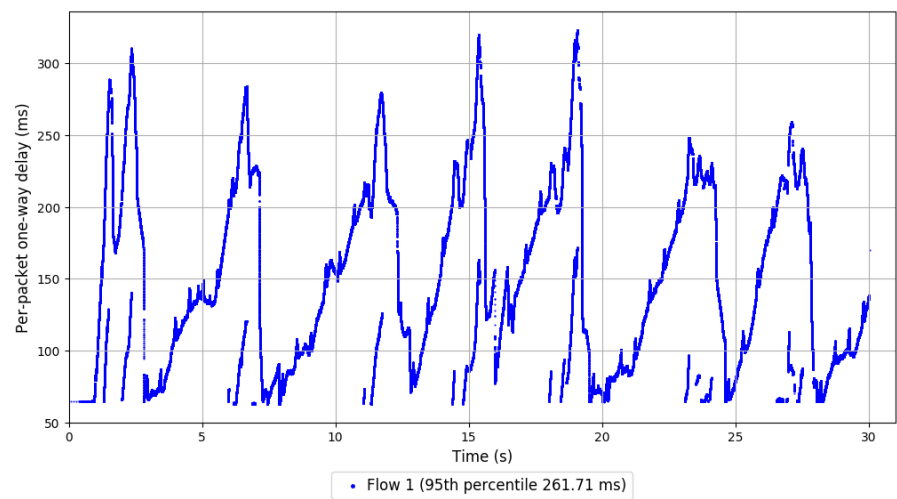
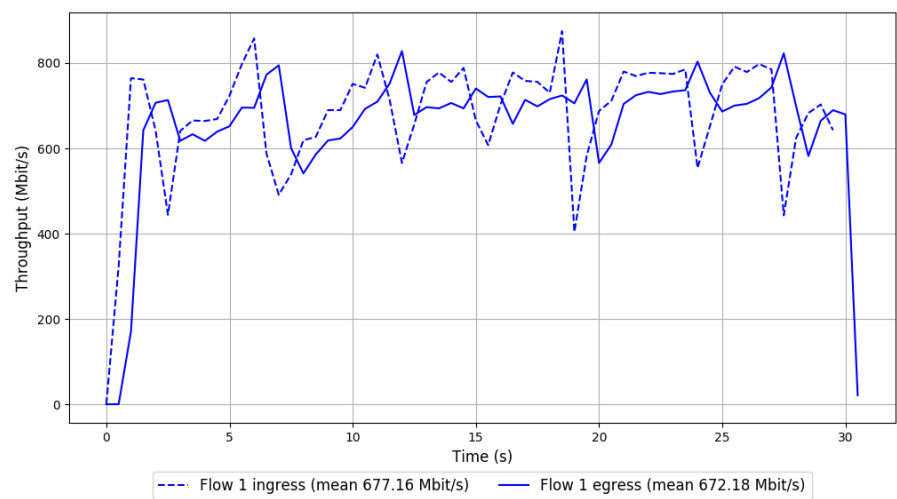
-- Flow 1:

Average throughput: 672.18 Mbit/s

95th percentile per-packet one-way delay: 261.715 ms

Loss rate: 0.72%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-06-19 06:22:17

End at: 2018-06-19 06:22:47

Local clock offset: 0.011 ms

Remote clock offset: 0.415 ms

Below is generated by plot.py at 2018-06-19 09:39:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 662.51 Mbit/s

95th percentile per-packet one-way delay: 256.865 ms

Loss rate: 0.30%

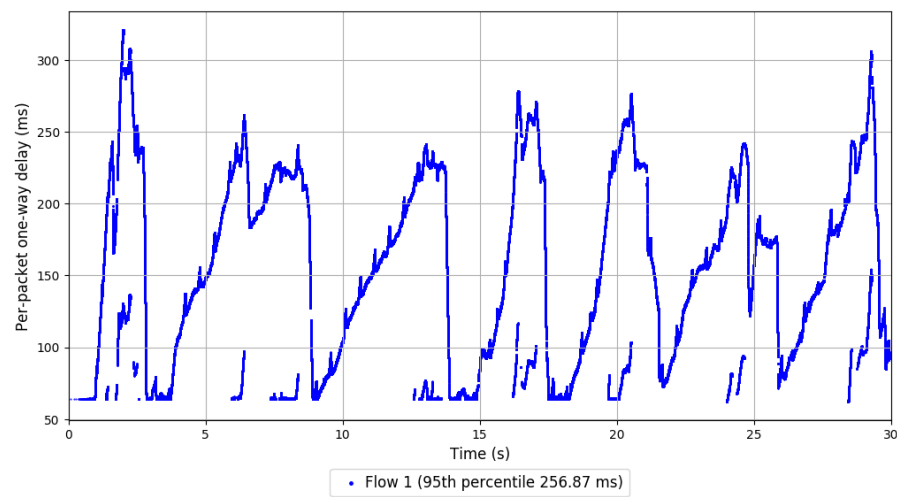
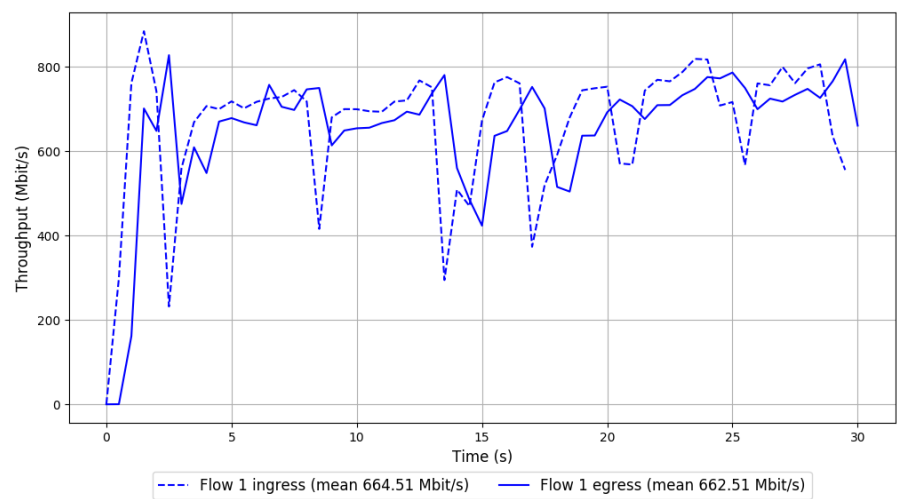
-- Flow 1:

Average throughput: 662.51 Mbit/s

95th percentile per-packet one-way delay: 256.865 ms

Loss rate: 0.30%

Run 2: Report of FillP — Data Link

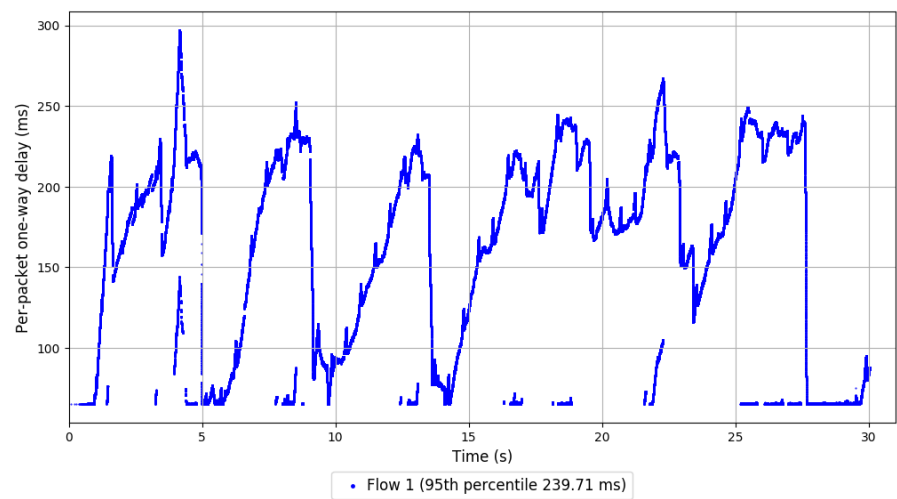
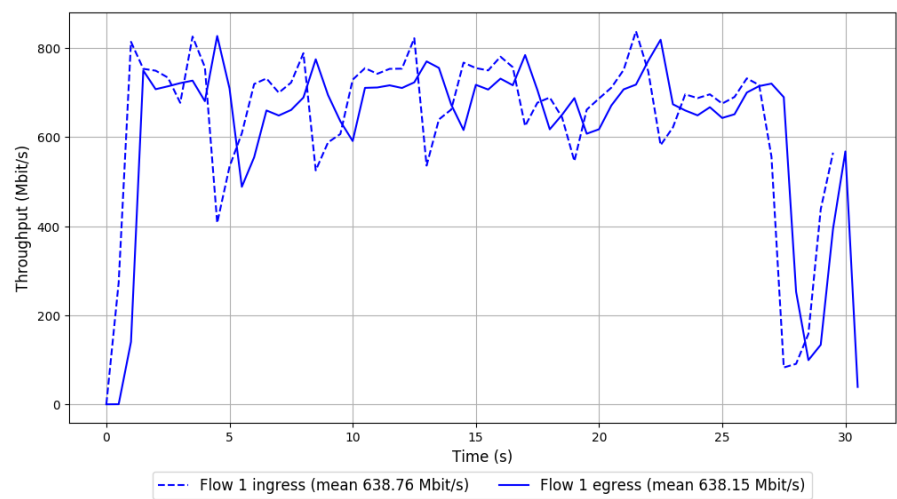


Run 3: Statistics of FillP

Start at: 2018-06-19 06:42:12
End at: 2018-06-19 06:42:42
Local clock offset: -0.031 ms
Remote clock offset: -1.427 ms

Below is generated by plot.py at 2018-06-19 09:39:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 638.15 Mbit/s
95th percentile per-packet one-way delay: 239.705 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 638.15 Mbit/s
95th percentile per-packet one-way delay: 239.705 ms
Loss rate: 0.10%

Run 3: Report of FillP — Data Link

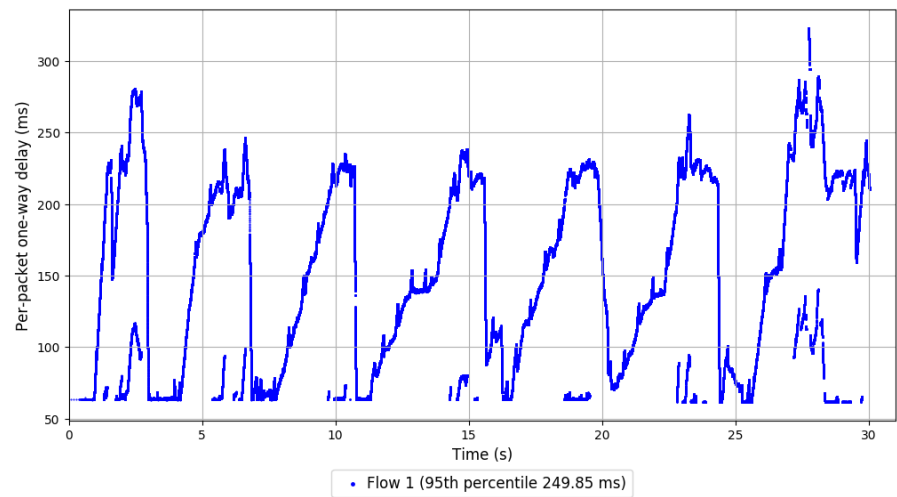
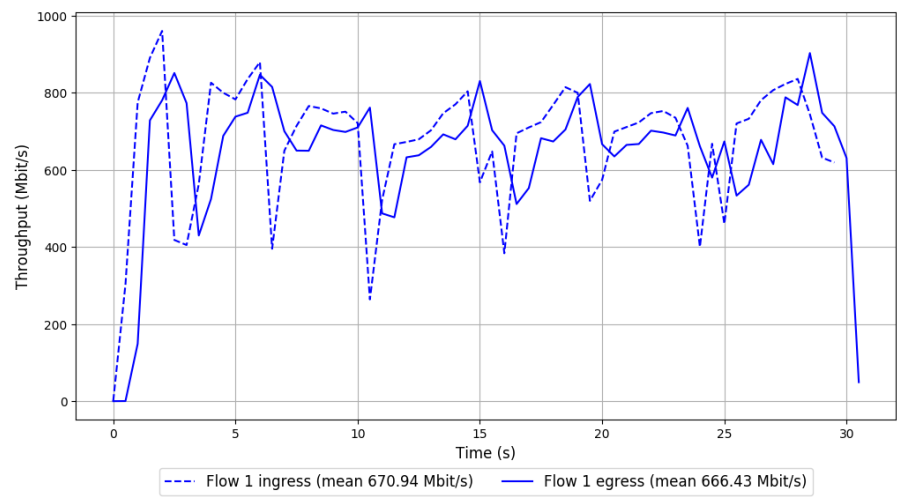


Run 4: Statistics of FillP

Start at: 2018-06-19 07:02:28
End at: 2018-06-19 07:02:58
Local clock offset: -0.109 ms
Remote clock offset: -0.036 ms

Below is generated by plot.py at 2018-06-19 09:39:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 666.43 Mbit/s
95th percentile per-packet one-way delay: 249.851 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 666.43 Mbit/s
95th percentile per-packet one-way delay: 249.851 ms
Loss rate: 0.67%

Run 4: Report of FillP — Data Link

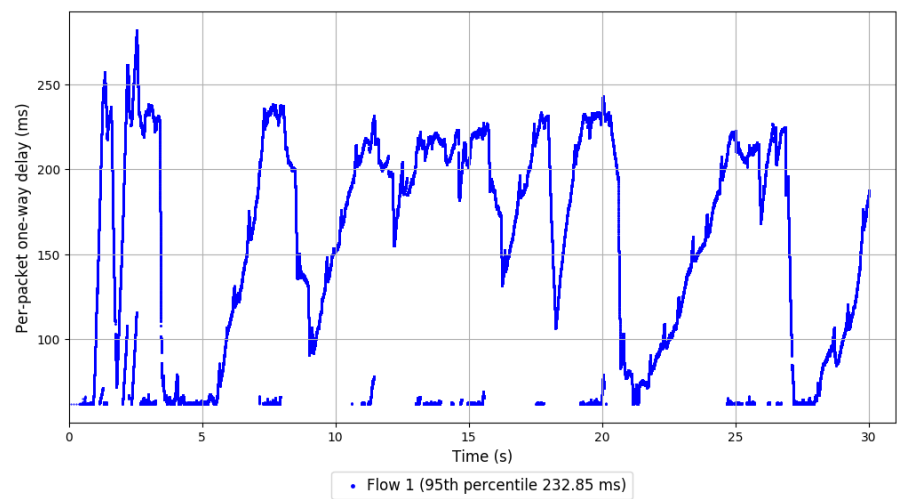
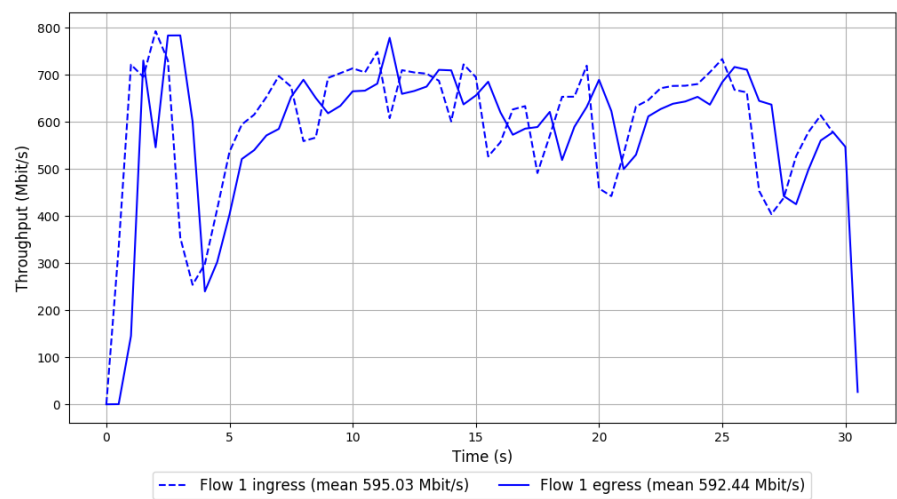


Run 5: Statistics of FillP

Start at: 2018-06-19 07:22:41
End at: 2018-06-19 07:23:11
Local clock offset: 0.027 ms
Remote clock offset: -1.335 ms

Below is generated by plot.py at 2018-06-19 09:39:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 592.44 Mbit/s
95th percentile per-packet one-way delay: 232.854 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 592.44 Mbit/s
95th percentile per-packet one-way delay: 232.854 ms
Loss rate: 0.44%

Run 5: Report of FillP — Data Link

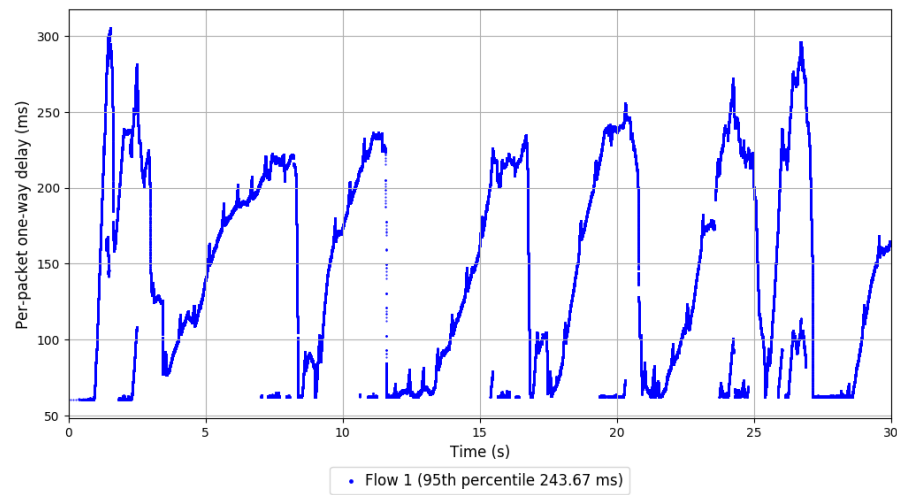
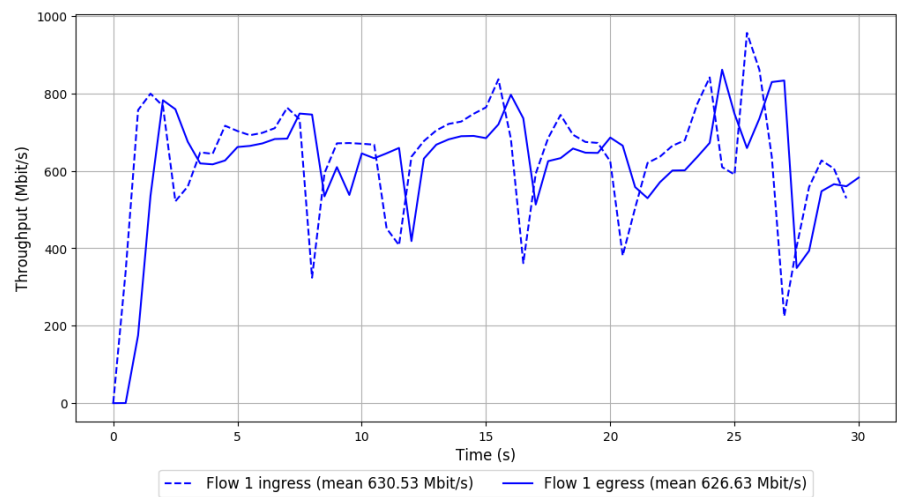


Run 6: Statistics of FillP

Start at: 2018-06-19 07:42:56
End at: 2018-06-19 07:43:26
Local clock offset: 0.015 ms
Remote clock offset: -1.302 ms

Below is generated by plot.py at 2018-06-19 09:40:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 626.63 Mbit/s
95th percentile per-packet one-way delay: 243.673 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 626.63 Mbit/s
95th percentile per-packet one-way delay: 243.673 ms
Loss rate: 0.61%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-06-19 08:03:03

End at: 2018-06-19 08:03:33

Local clock offset: -0.06 ms

Remote clock offset: 0.117 ms

Below is generated by plot.py at 2018-06-19 09:40:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 571.72 Mbit/s

95th percentile per-packet one-way delay: 296.847 ms

Loss rate: 1.50%

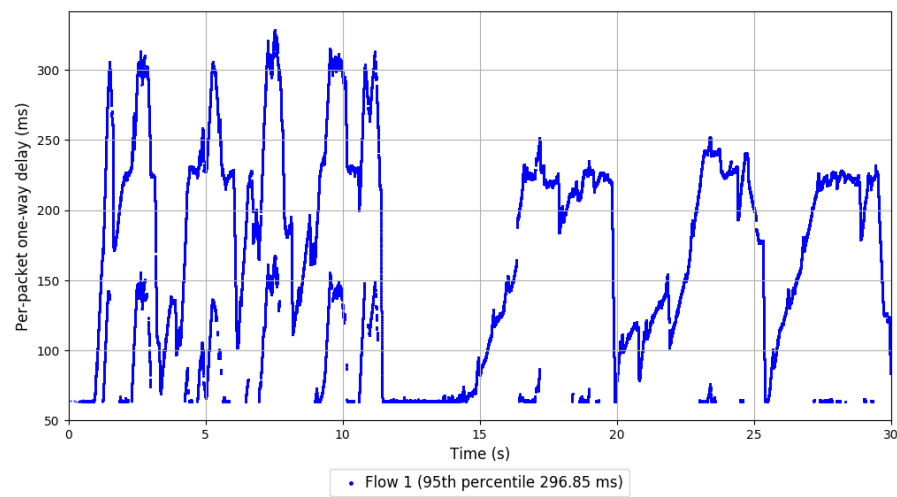
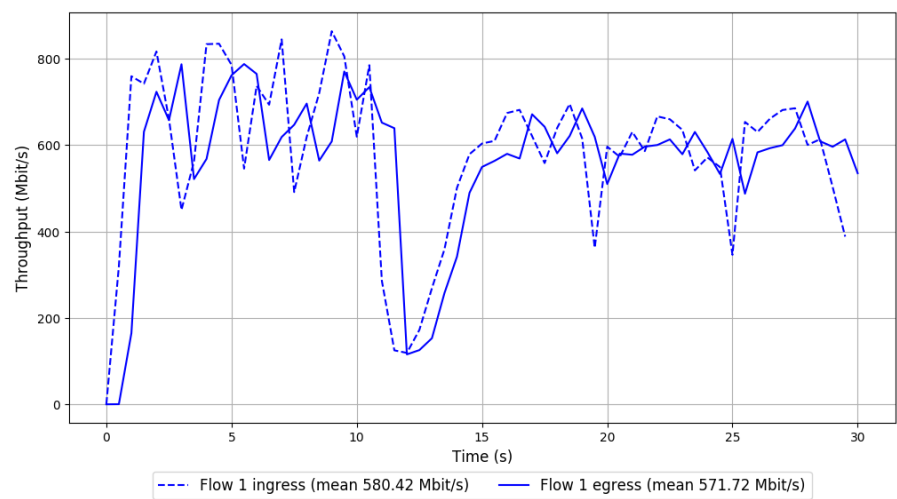
-- Flow 1:

Average throughput: 571.72 Mbit/s

95th percentile per-packet one-way delay: 296.847 ms

Loss rate: 1.50%

Run 7: Report of FillP — Data Link

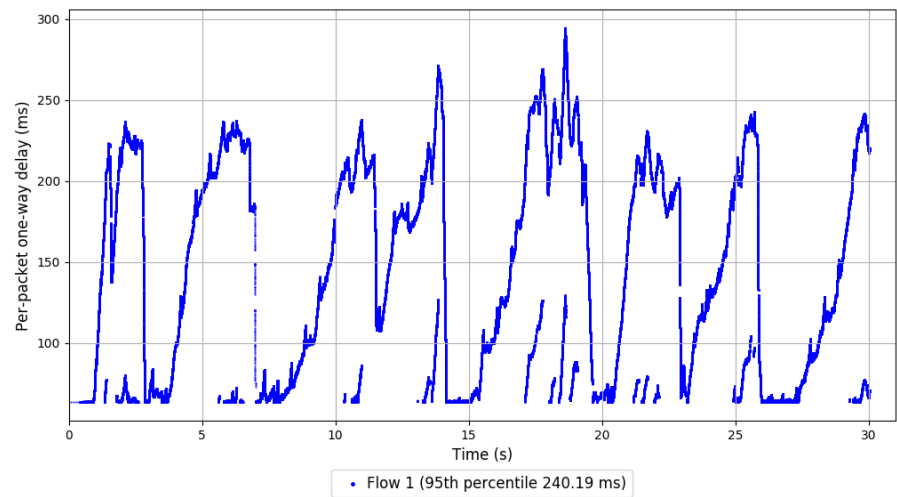
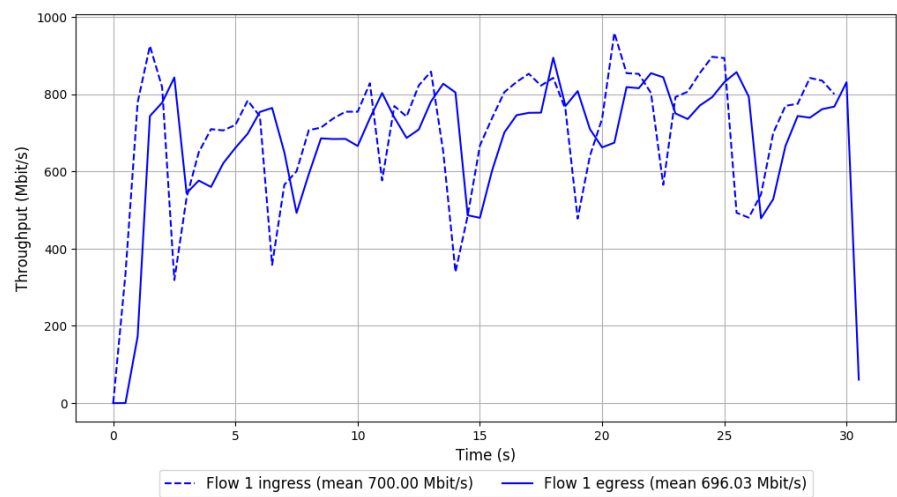


Run 8: Statistics of FillP

Start at: 2018-06-19 08:23:09
End at: 2018-06-19 08:23:39
Local clock offset: -0.015 ms
Remote clock offset: -0.027 ms

Below is generated by plot.py at 2018-06-19 09:42:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 696.03 Mbit/s
95th percentile per-packet one-way delay: 240.191 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 696.03 Mbit/s
95th percentile per-packet one-way delay: 240.191 ms
Loss rate: 0.57%

Run 8: Report of FillP — Data Link

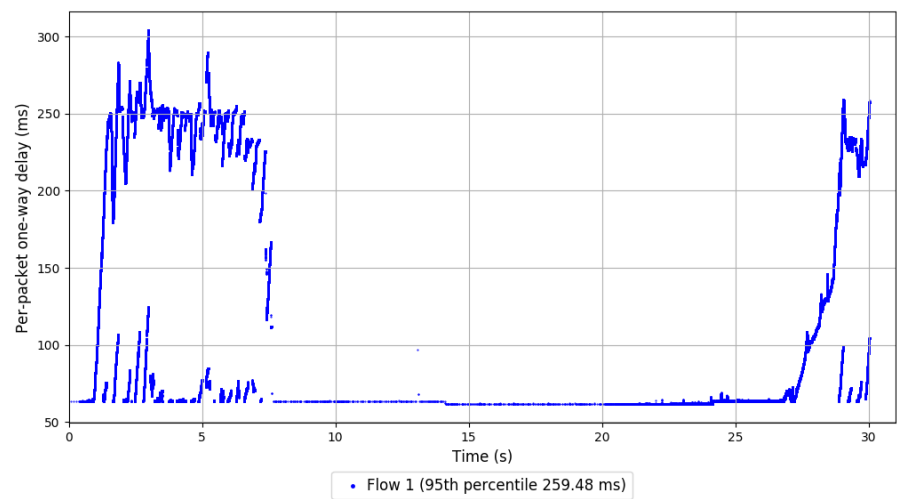
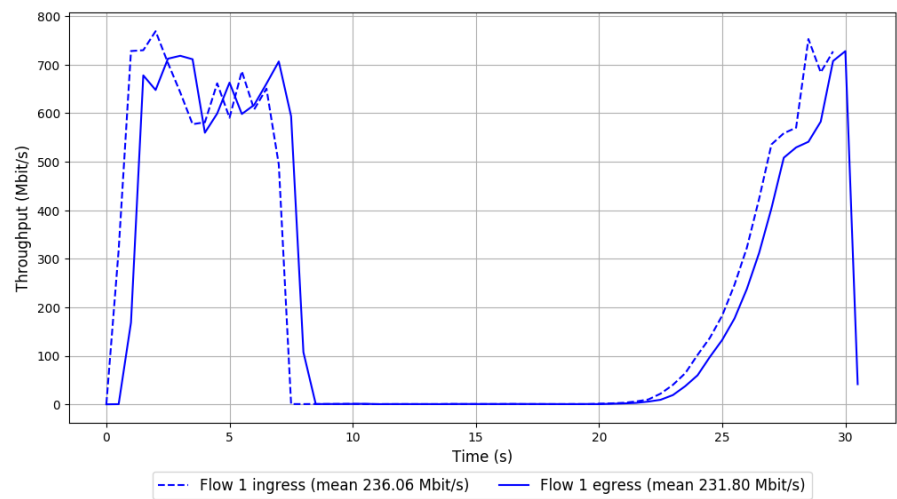


Run 9: Statistics of FillP

Start at: 2018-06-19 08:43:14
End at: 2018-06-19 08:43:44
Local clock offset: 0.01 ms
Remote clock offset: -0.104 ms

Below is generated by plot.py at 2018-06-19 09:43:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 231.80 Mbit/s
95th percentile per-packet one-way delay: 259.479 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 231.80 Mbit/s
95th percentile per-packet one-way delay: 259.479 ms
Loss rate: 1.80%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-06-19 09:03:15

End at: 2018-06-19 09:03:45

Local clock offset: -0.118 ms

Remote clock offset: 0.059 ms

Below is generated by plot.py at 2018-06-19 09:52:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 565.09 Mbit/s

95th percentile per-packet one-way delay: 236.909 ms

Loss rate: 0.14%

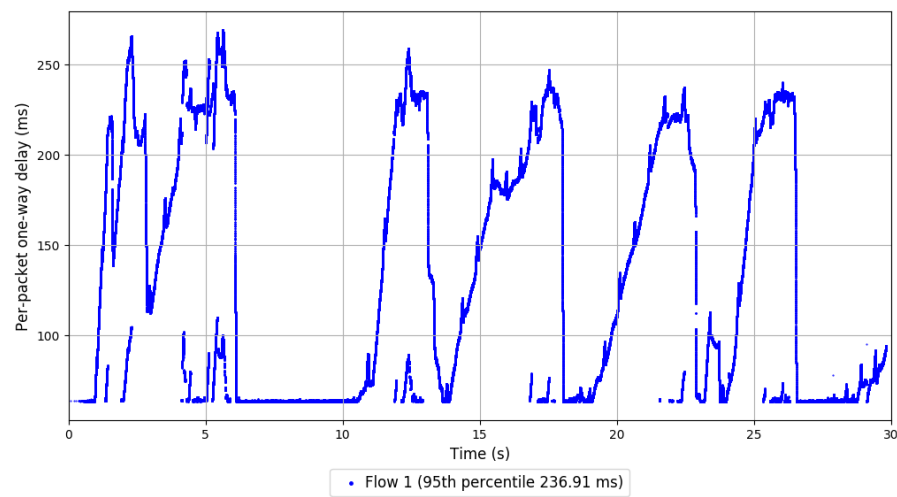
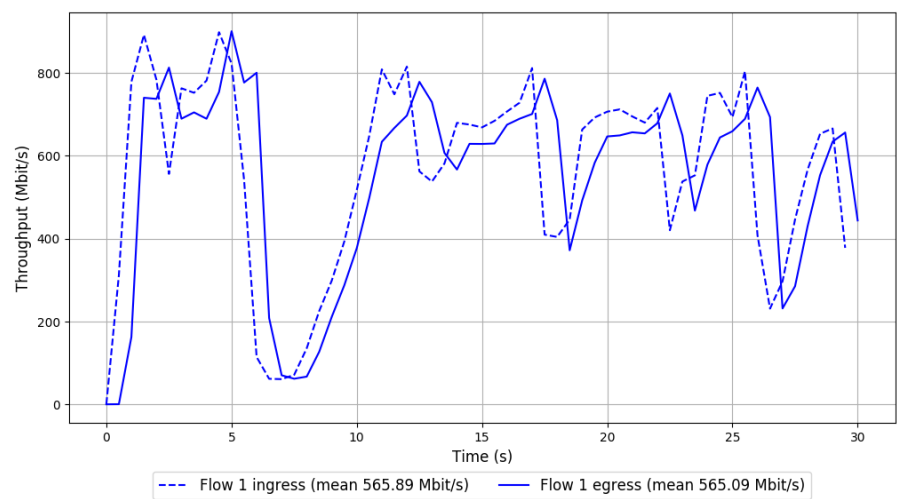
-- Flow 1:

Average throughput: 565.09 Mbit/s

95th percentile per-packet one-way delay: 236.909 ms

Loss rate: 0.14%

Run 10: Report of FillP — Data Link



Run 1: Statistics of Indigo

Start at: 2018-06-19 05:48:20

End at: 2018-06-19 05:48:50

Local clock offset: 0.001 ms

Remote clock offset: -0.244 ms

Below is generated by plot.py at 2018-06-19 09:52:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.72 Mbit/s

95th percentile per-packet one-way delay: 66.763 ms

Loss rate: 0.00%

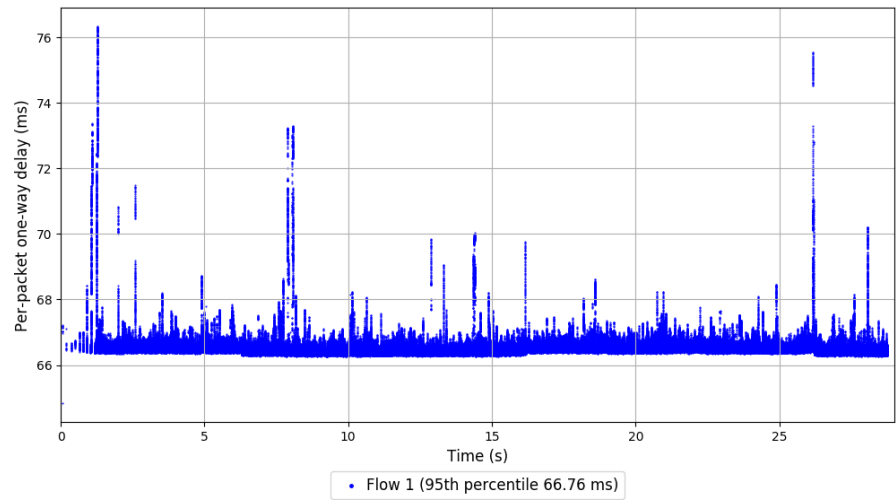
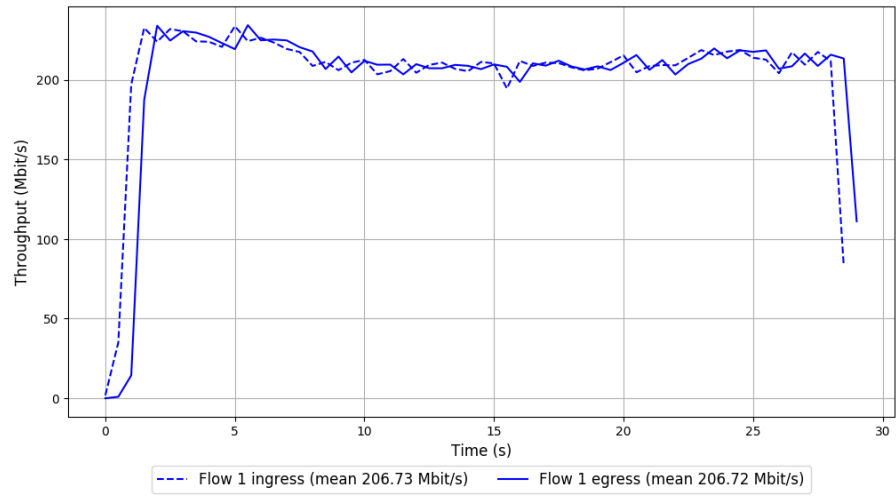
-- Flow 1:

Average throughput: 206.72 Mbit/s

95th percentile per-packet one-way delay: 66.763 ms

Loss rate: 0.00%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-06-19 06:08:12

End at: 2018-06-19 06:08:42

Local clock offset: 0.042 ms

Remote clock offset: 0.231 ms

Below is generated by plot.py at 2018-06-19 09:52:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.57 Mbit/s

95th percentile per-packet one-way delay: 67.071 ms

Loss rate: 0.00%

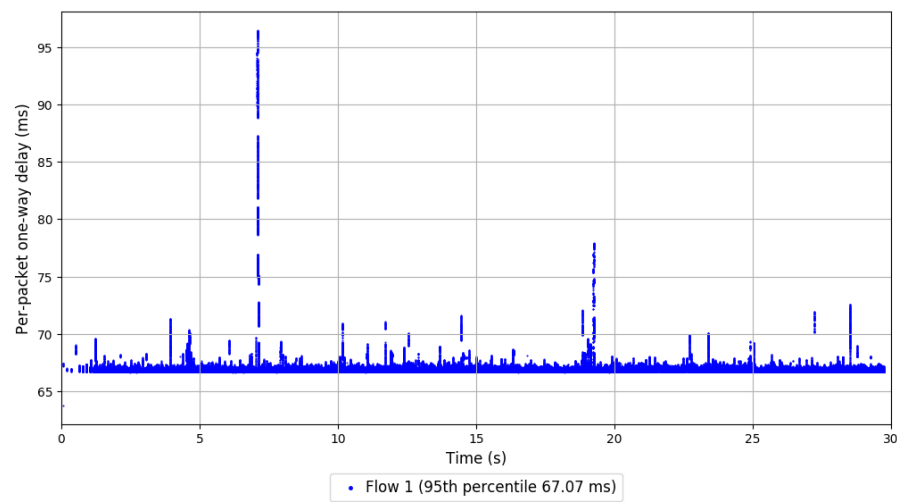
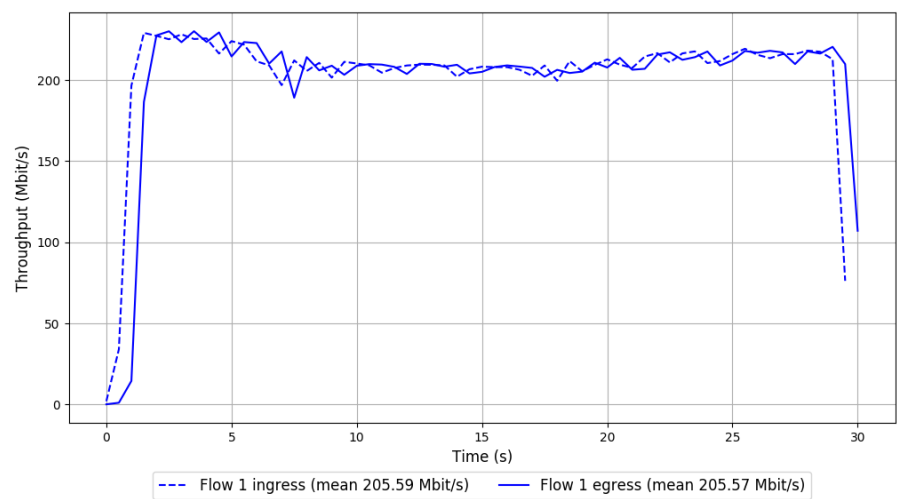
-- Flow 1:

Average throughput: 205.57 Mbit/s

95th percentile per-packet one-way delay: 67.071 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-06-19 06:27:42

End at: 2018-06-19 06:28:12

Local clock offset: 0.047 ms

Remote clock offset: 0.305 ms

Below is generated by plot.py at 2018-06-19 09:52:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.83 Mbit/s

95th percentile per-packet one-way delay: 67.044 ms

Loss rate: 0.00%

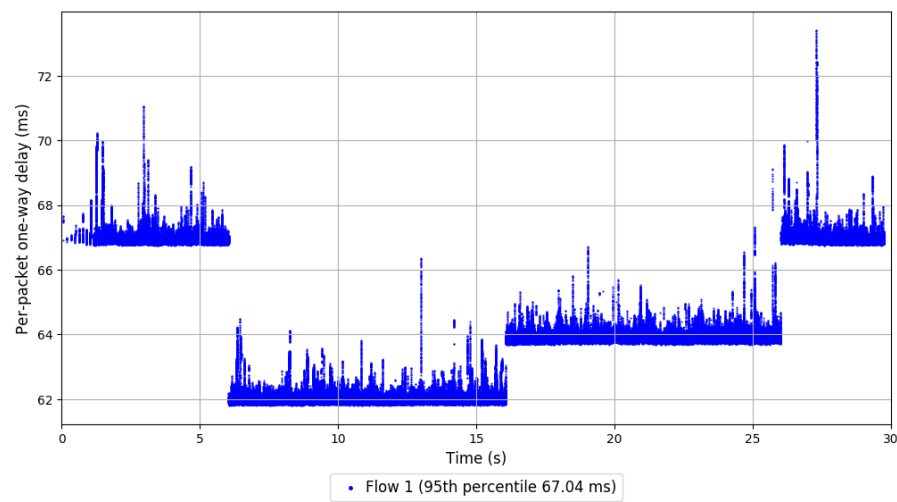
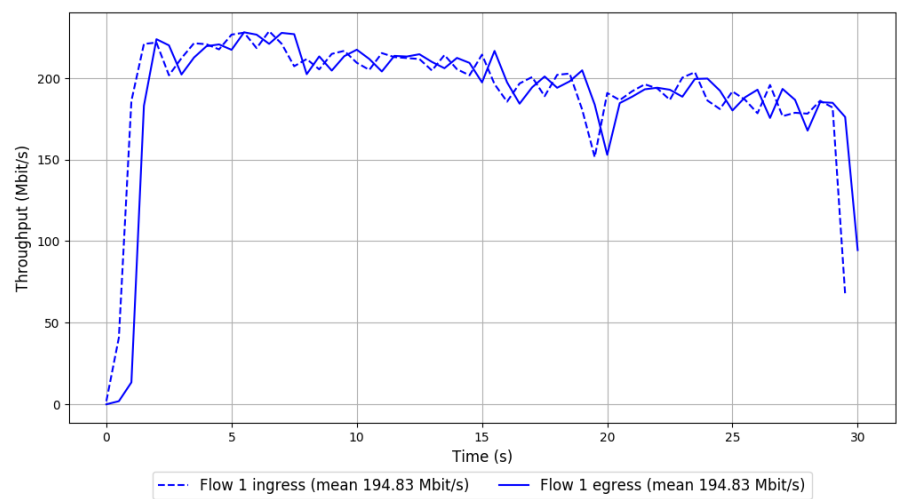
-- Flow 1:

Average throughput: 194.83 Mbit/s

95th percentile per-packet one-way delay: 67.044 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link

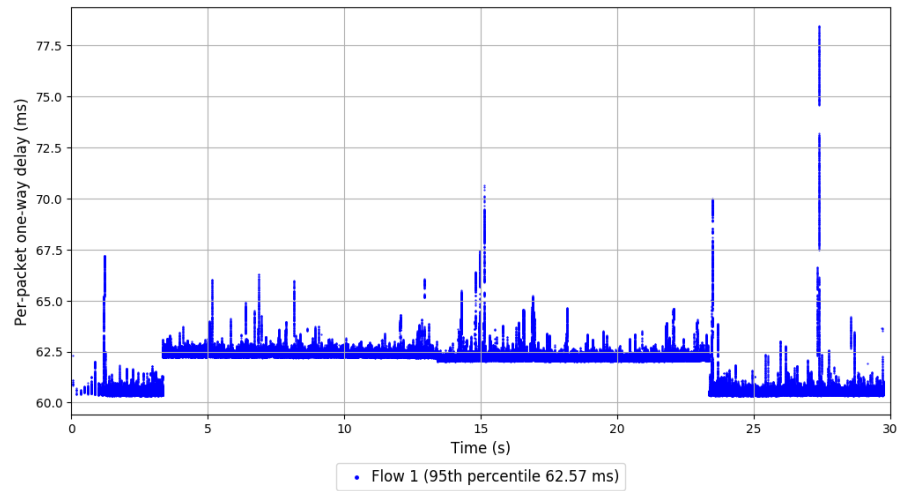
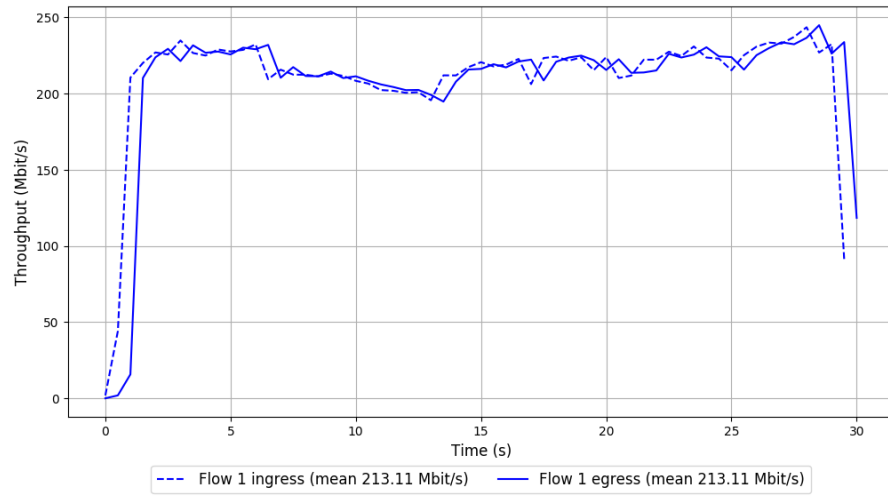


Run 4: Statistics of Indigo

Start at: 2018-06-19 06:47:54
End at: 2018-06-19 06:48:24
Local clock offset: -0.113 ms
Remote clock offset: -1.291 ms

Below is generated by plot.py at 2018-06-19 09:52:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 213.11 Mbit/s
95th percentile per-packet one-way delay: 62.566 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 213.11 Mbit/s
95th percentile per-packet one-way delay: 62.566 ms
Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-06-19 07:08:07

End at: 2018-06-19 07:08:37

Local clock offset: -0.019 ms

Remote clock offset: 1.094 ms

Below is generated by plot.py at 2018-06-19 09:52:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.31 Mbit/s

95th percentile per-packet one-way delay: 64.930 ms

Loss rate: 0.00%

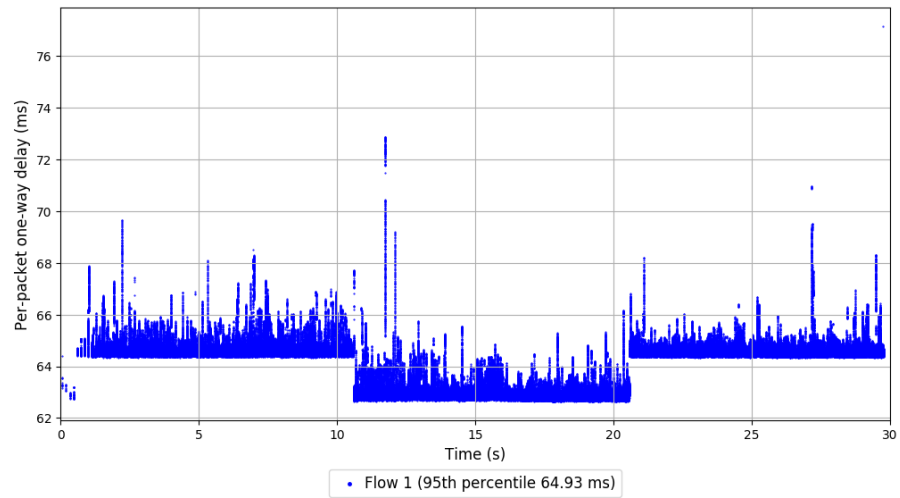
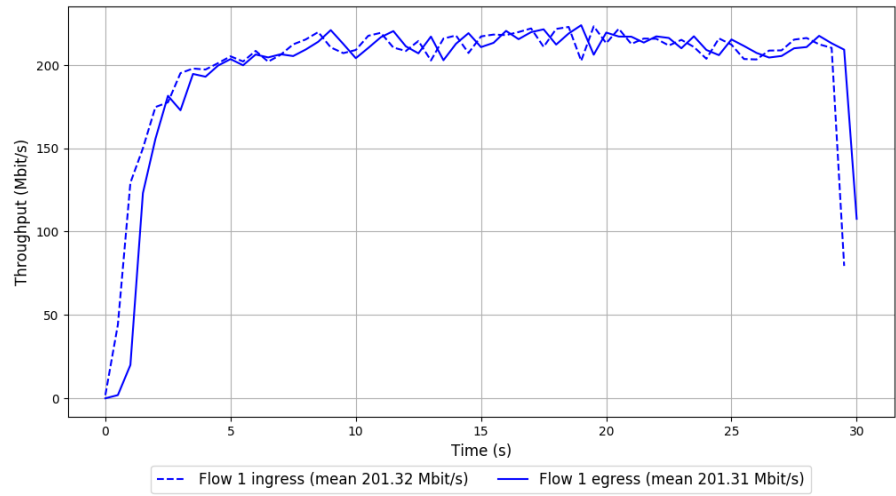
-- Flow 1:

Average throughput: 201.31 Mbit/s

95th percentile per-packet one-way delay: 64.930 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-06-19 07:28:23

End at: 2018-06-19 07:28:53

Local clock offset: -0.018 ms

Remote clock offset: 1.318 ms

Below is generated by plot.py at 2018-06-19 09:52:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.25 Mbit/s

95th percentile per-packet one-way delay: 65.095 ms

Loss rate: 0.00%

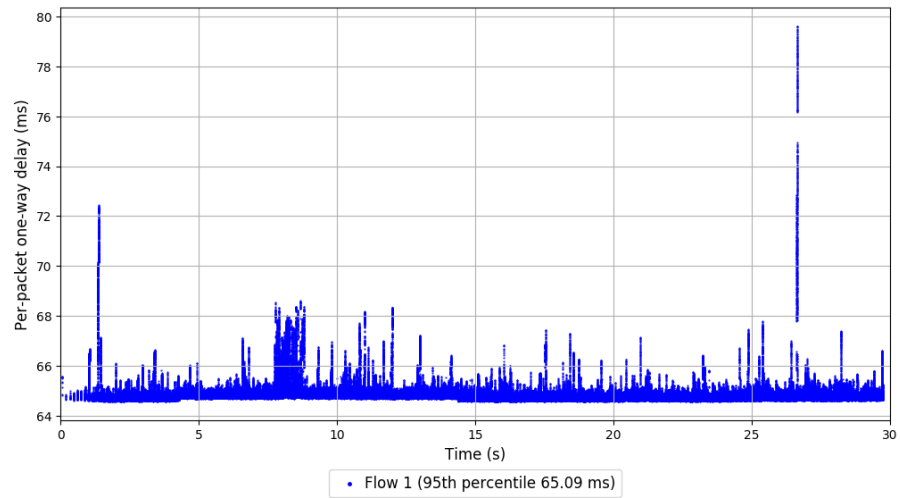
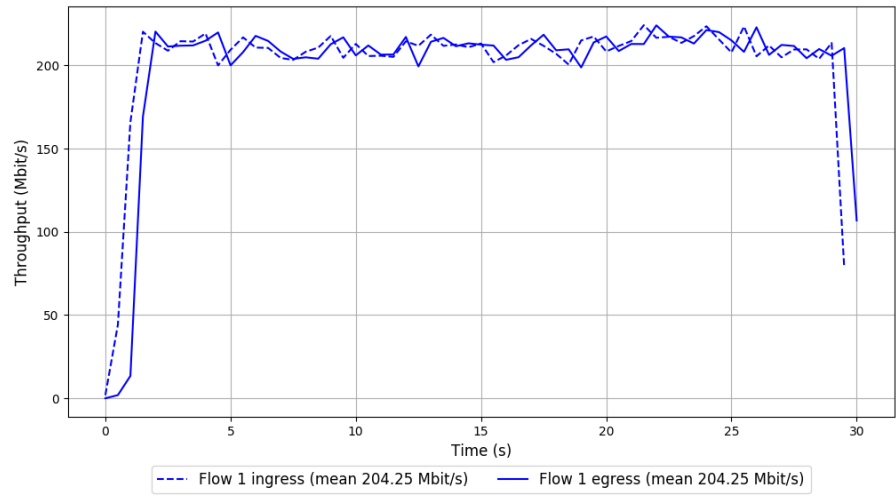
-- Flow 1:

Average throughput: 204.25 Mbit/s

95th percentile per-packet one-way delay: 65.095 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link

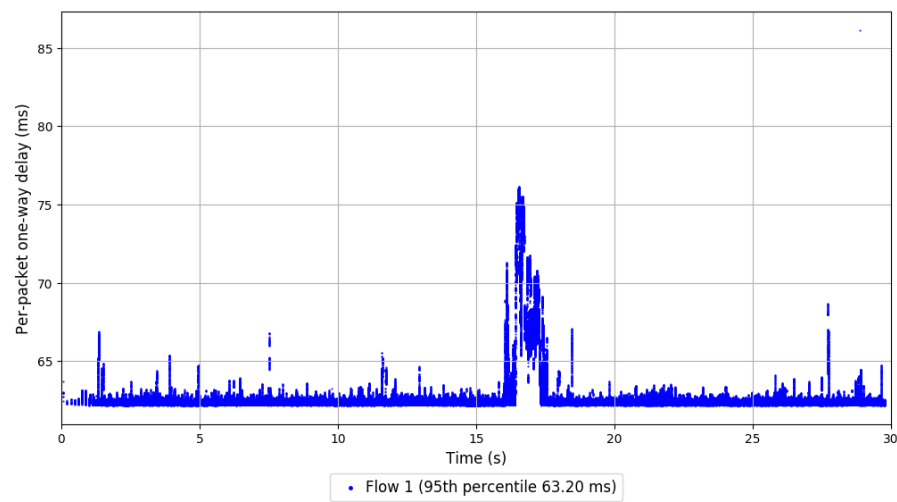
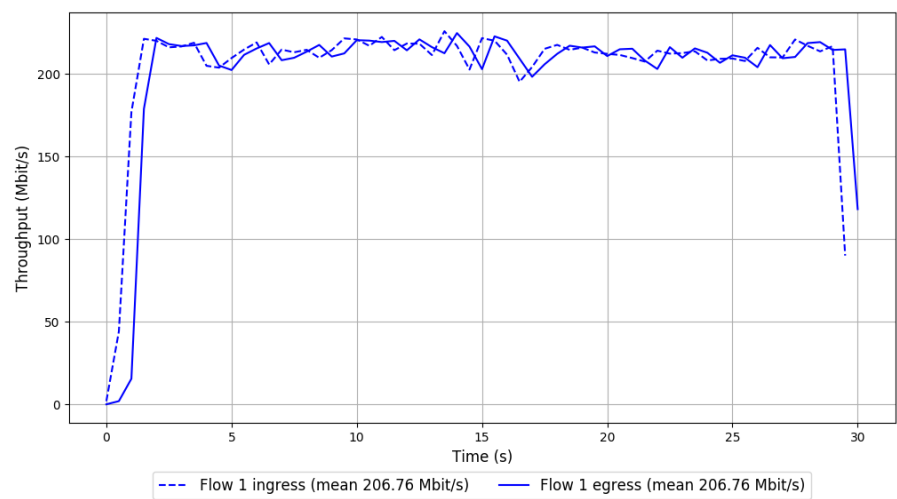


Run 7: Statistics of Indigo

Start at: 2018-06-19 07:48:29
End at: 2018-06-19 07:48:59
Local clock offset: -0.09 ms
Remote clock offset: -1.266 ms

Below is generated by plot.py at 2018-06-19 09:52:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 206.76 Mbit/s
95th percentile per-packet one-way delay: 63.202 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 206.76 Mbit/s
95th percentile per-packet one-way delay: 63.202 ms
Loss rate: 0.00%

Run 7: Report of Indigo — Data Link

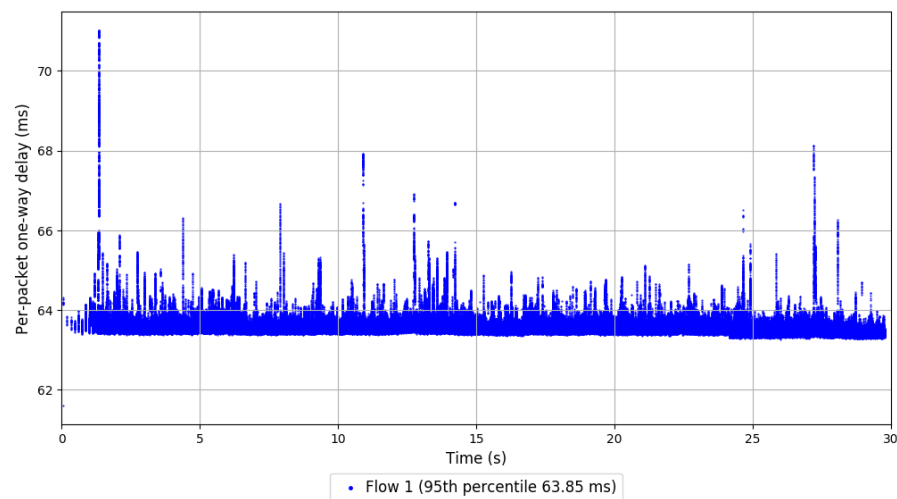
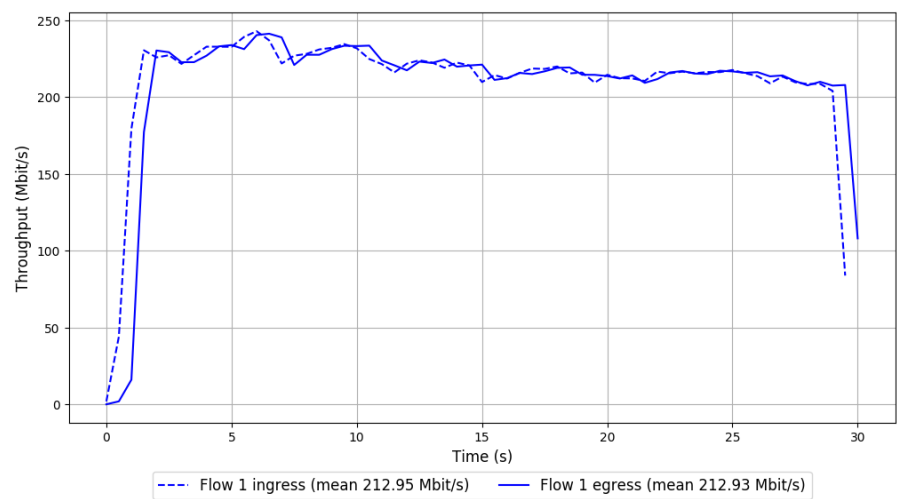


Run 8: Statistics of Indigo

Start at: 2018-06-19 08:08:33
End at: 2018-06-19 08:09:04
Local clock offset: -0.059 ms
Remote clock offset: -0.047 ms

Below is generated by plot.py at 2018-06-19 09:52:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 212.93 Mbit/s
95th percentile per-packet one-way delay: 63.851 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 212.93 Mbit/s
95th percentile per-packet one-way delay: 63.851 ms
Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-06-19 08:28:47

End at: 2018-06-19 08:29:17

Local clock offset: -0.004 ms

Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-06-19 09:52:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.33 Mbit/s

95th percentile per-packet one-way delay: 63.971 ms

Loss rate: 0.00%

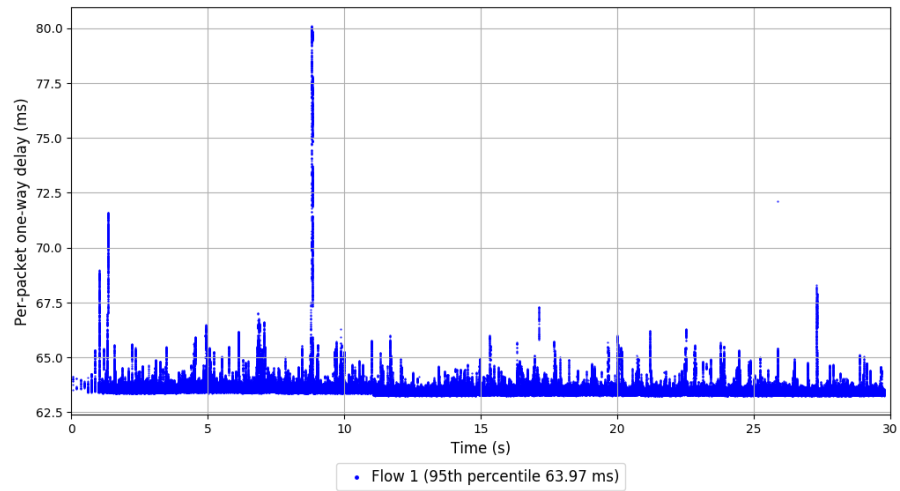
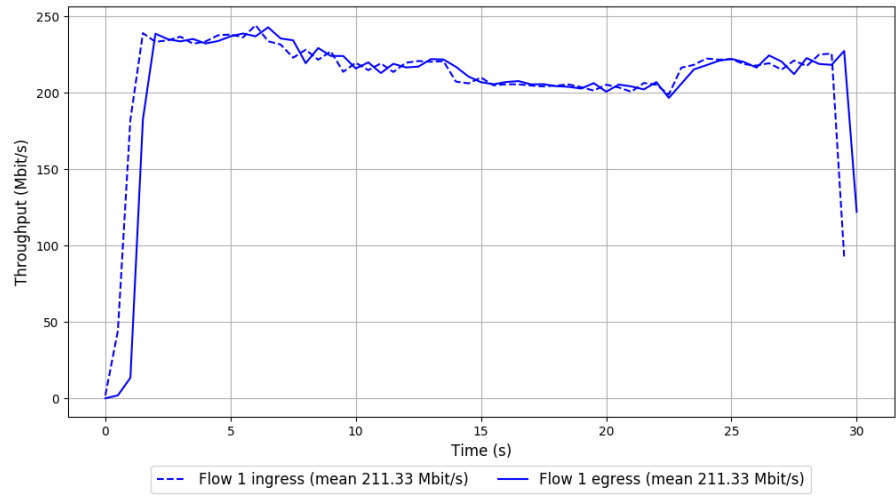
-- Flow 1:

Average throughput: 211.33 Mbit/s

95th percentile per-packet one-way delay: 63.971 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-06-19 08:48:42

End at: 2018-06-19 08:49:12

Local clock offset: -0.04 ms

Remote clock offset: -0.023 ms

Below is generated by plot.py at 2018-06-19 09:52:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.42 Mbit/s

95th percentile per-packet one-way delay: 63.807 ms

Loss rate: 0.00%

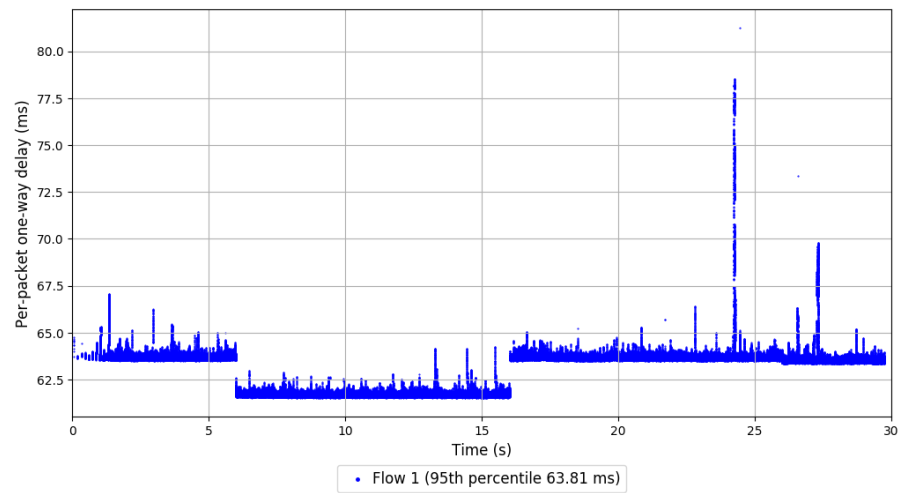
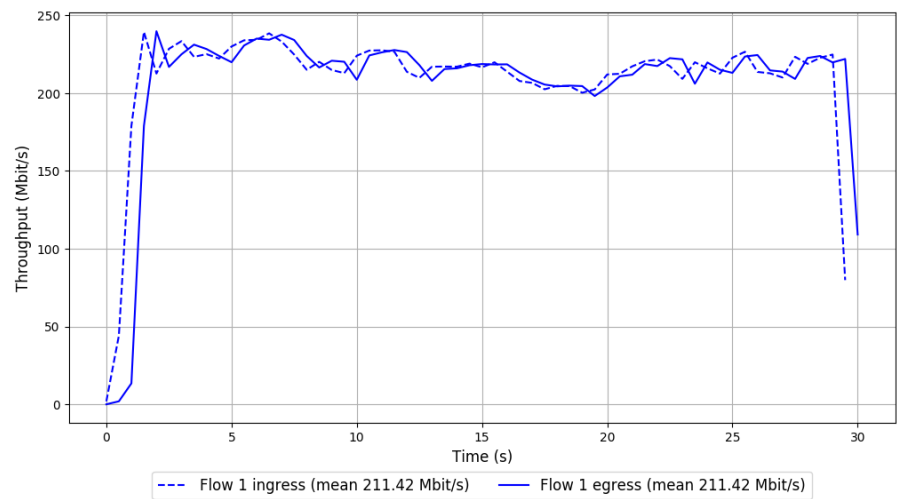
-- Flow 1:

Average throughput: 211.42 Mbit/s

95th percentile per-packet one-way delay: 63.807 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

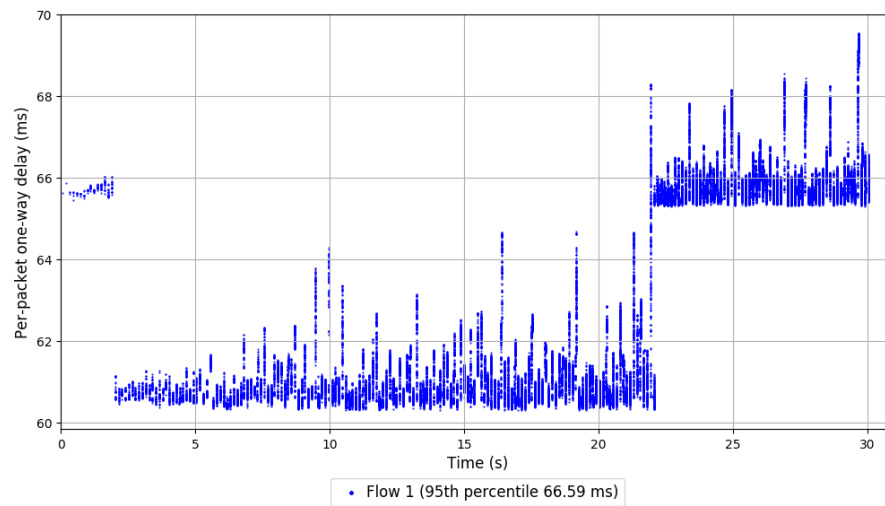
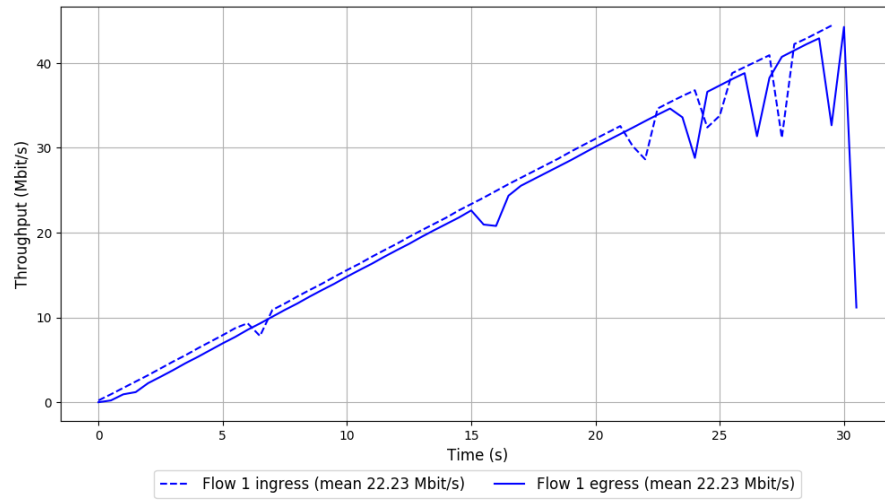


Run 1: Statistics of LEDBAT

Start at: 2018-06-19 05:54:16
End at: 2018-06-19 05:54:46
Local clock offset: -0.01 ms
Remote clock offset: -1.228 ms

Below is generated by plot.py at 2018-06-19 09:52:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 22.23 Mbit/s
95th percentile per-packet one-way delay: 66.588 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 22.23 Mbit/s
95th percentile per-packet one-way delay: 66.588 ms
Loss rate: 0.00%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-06-19 06:14:03

End at: 2018-06-19 06:14:33

Local clock offset: -0.003 ms

Remote clock offset: 0.065 ms

Below is generated by plot.py at 2018-06-19 09:52:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.97 Mbit/s

95th percentile per-packet one-way delay: 63.190 ms

Loss rate: 0.00%

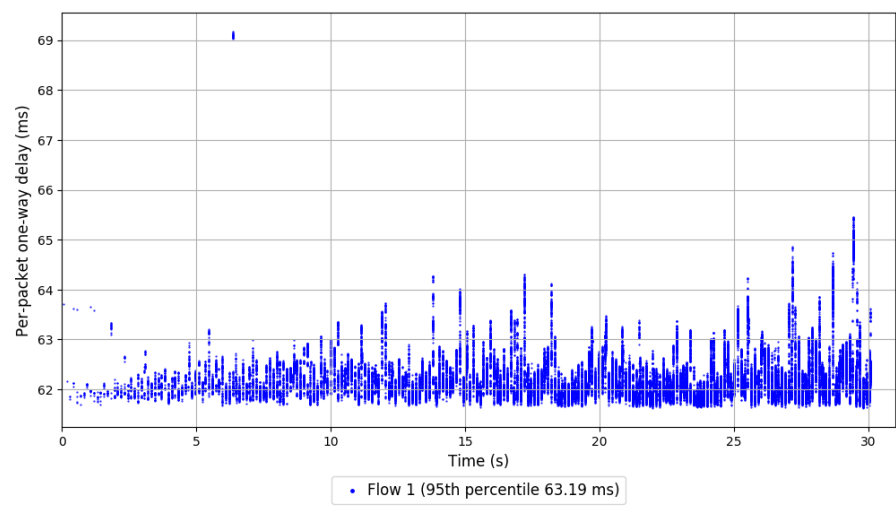
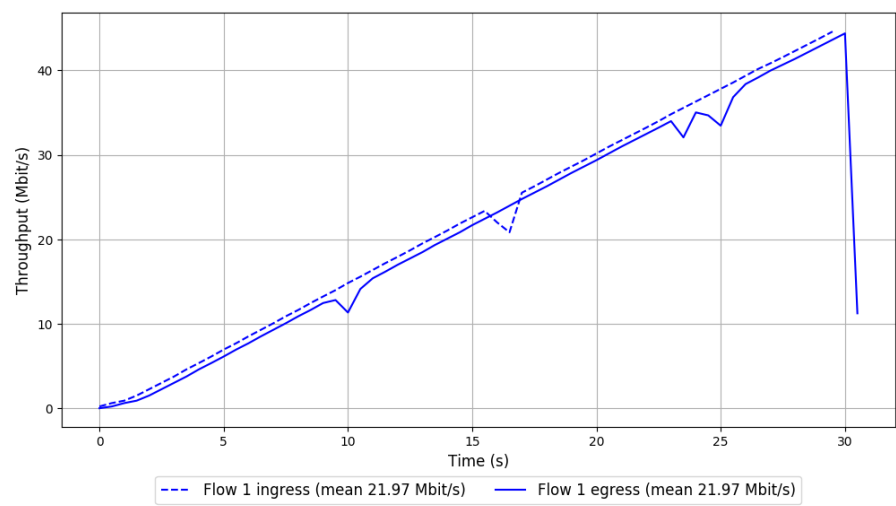
-- Flow 1:

Average throughput: 21.97 Mbit/s

95th percentile per-packet one-way delay: 63.190 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

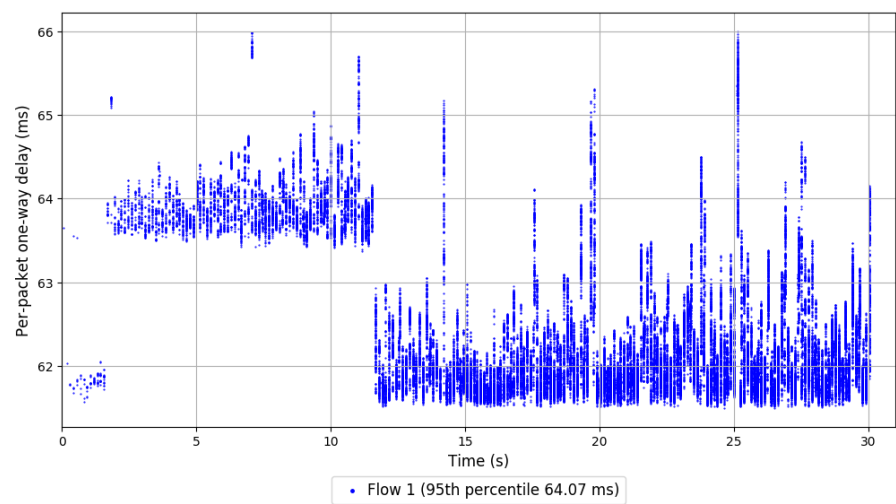
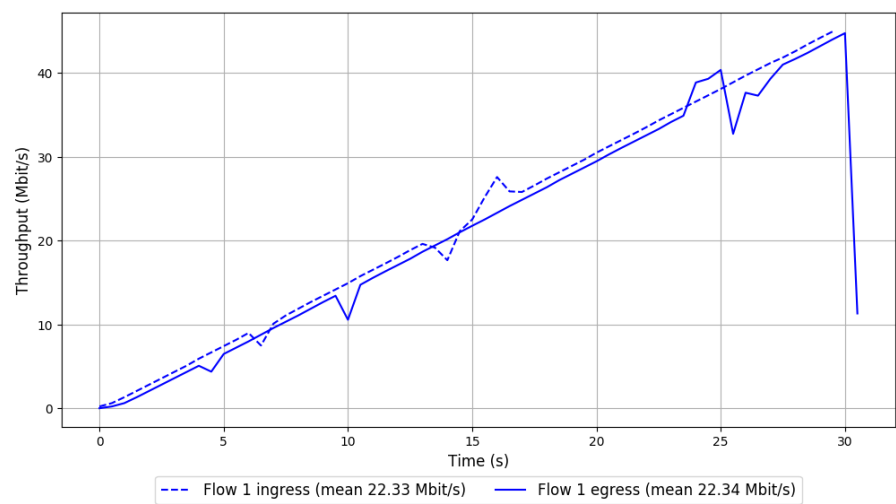


Run 3: Statistics of LEDBAT

Start at: 2018-06-19 06:33:36
End at: 2018-06-19 06:34:06
Local clock offset: 0.005 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-06-19 09:52:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 22.34 Mbit/s
95th percentile per-packet one-way delay: 64.067 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 22.34 Mbit/s
95th percentile per-packet one-way delay: 64.067 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

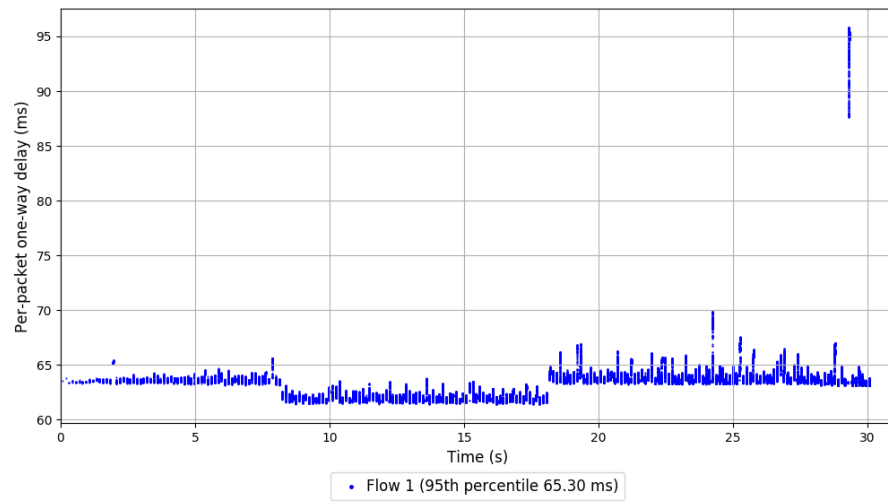
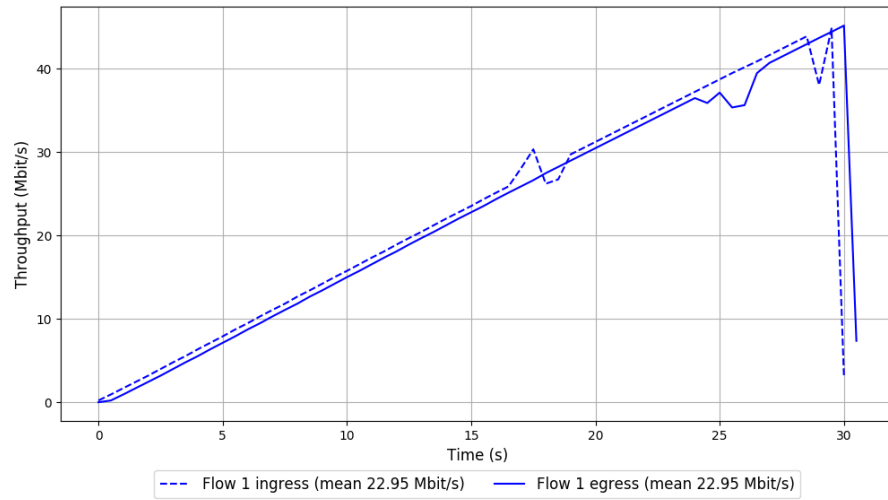


Run 4: Statistics of LEDBAT

Start at: 2018-06-19 06:53:50
End at: 2018-06-19 06:54:20
Local clock offset: -0.11 ms
Remote clock offset: -0.212 ms

Below is generated by plot.py at 2018-06-19 09:52:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 22.95 Mbit/s
95th percentile per-packet one-way delay: 65.303 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 22.95 Mbit/s
95th percentile per-packet one-way delay: 65.303 ms
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

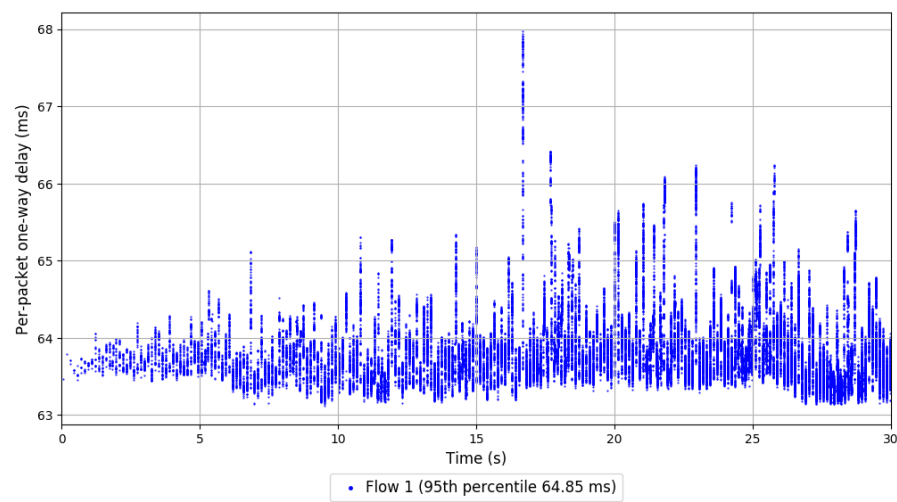
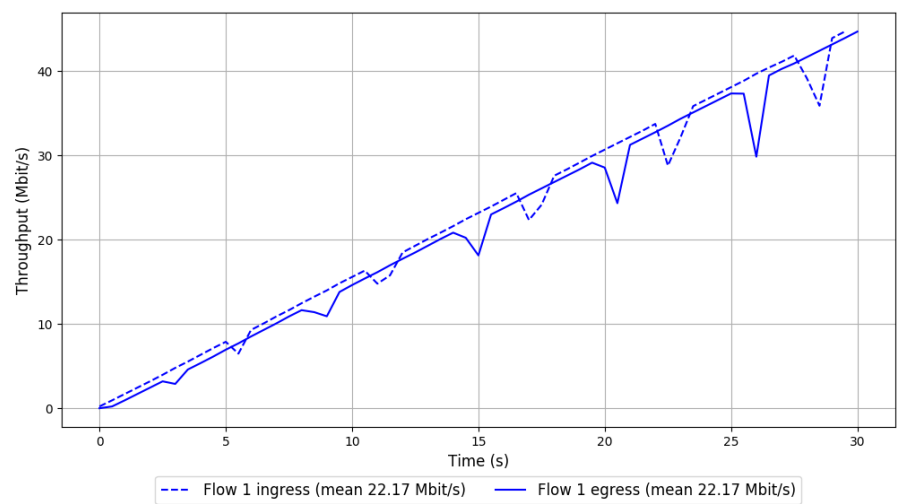


Run 5: Statistics of LEDBAT

Start at: 2018-06-19 07:14:01
End at: 2018-06-19 07:14:31
Local clock offset: -0.056 ms
Remote clock offset: -0.168 ms

Below is generated by plot.py at 2018-06-19 09:52:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 22.17 Mbit/s
95th percentile per-packet one-way delay: 64.854 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 22.17 Mbit/s
95th percentile per-packet one-way delay: 64.854 ms
Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

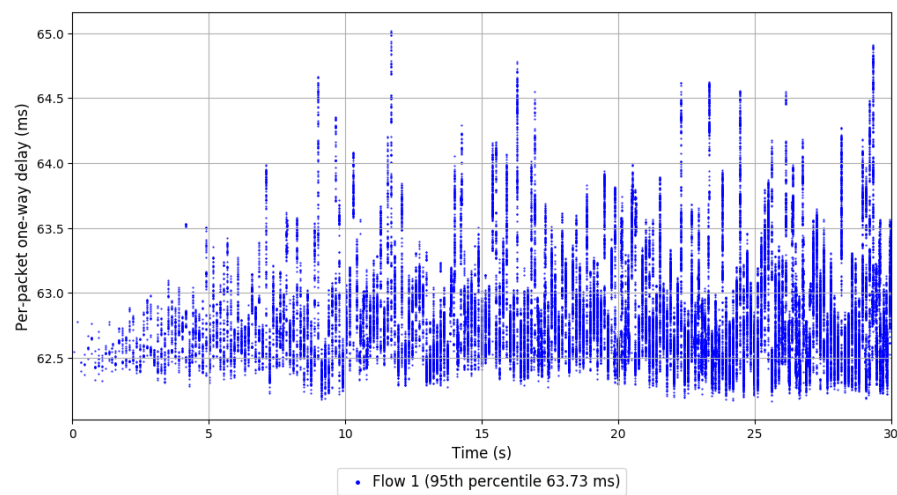
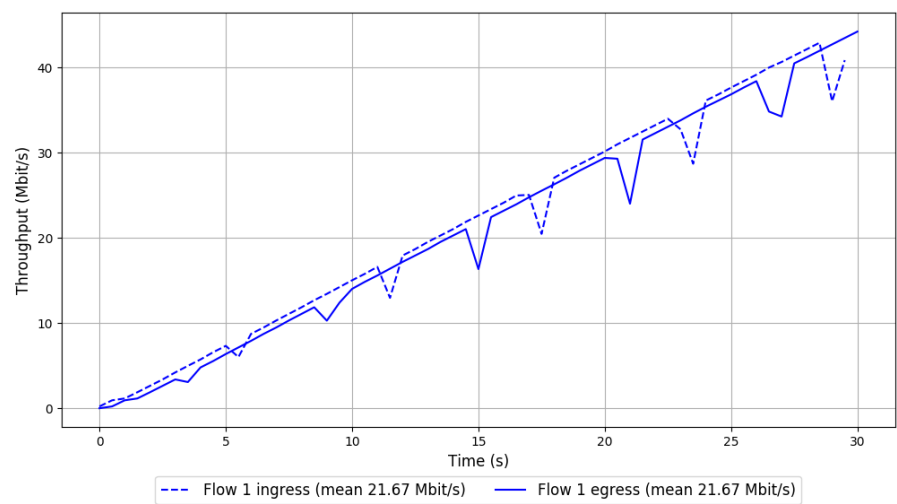


Run 6: Statistics of LEDBAT

Start at: 2018-06-19 07:34:18
End at: 2018-06-19 07:34:48
Local clock offset: -0.024 ms
Remote clock offset: -1.121 ms

Below is generated by plot.py at 2018-06-19 09:52:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 21.67 Mbit/s
95th percentile per-packet one-way delay: 63.730 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 21.67 Mbit/s
95th percentile per-packet one-way delay: 63.730 ms
Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-06-19 07:54:23

End at: 2018-06-19 07:54:53

Local clock offset: -0.007 ms

Remote clock offset: 1.026 ms

Below is generated by plot.py at 2018-06-19 09:52:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.07 Mbit/s

95th percentile per-packet one-way delay: 66.046 ms

Loss rate: 0.00%

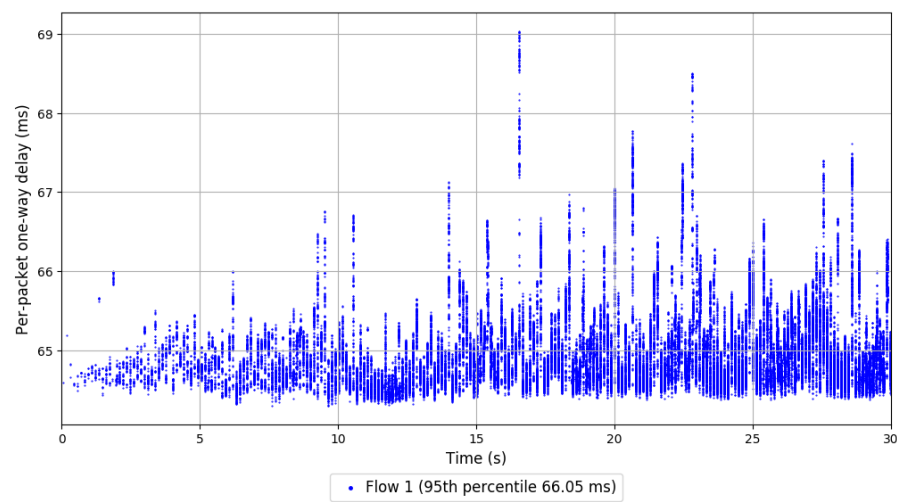
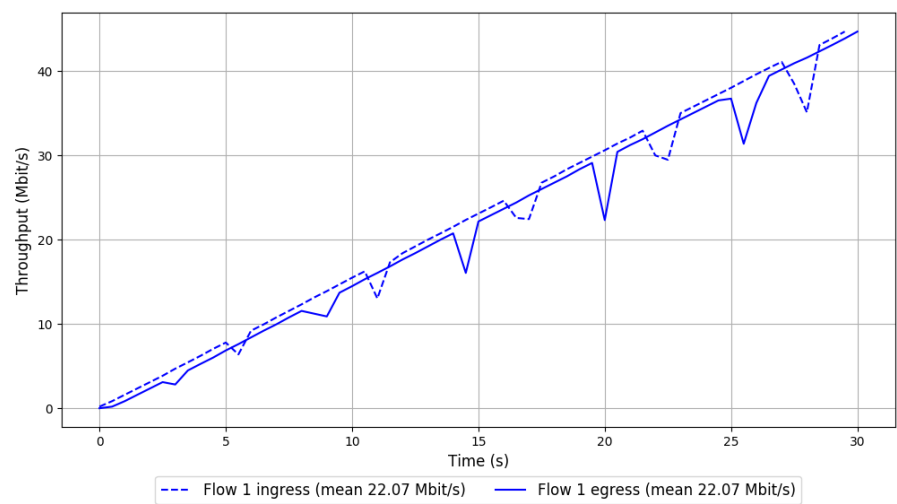
-- Flow 1:

Average throughput: 22.07 Mbit/s

95th percentile per-packet one-way delay: 66.046 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link

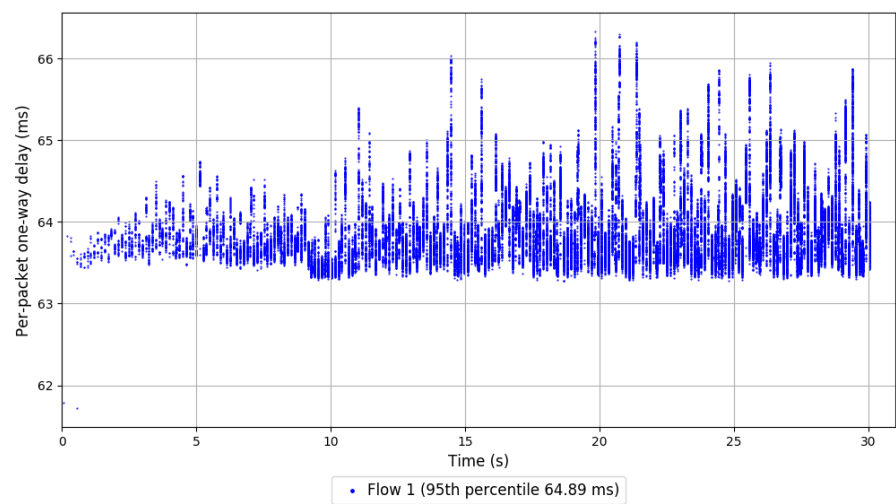
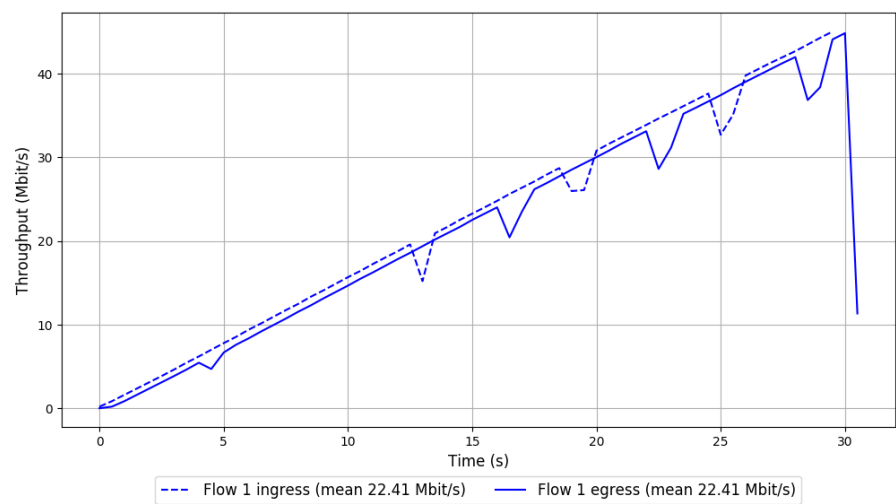


Run 8: Statistics of LEDBAT

Start at: 2018-06-19 08:14:29
End at: 2018-06-19 08:14:59
Local clock offset: -0.067 ms
Remote clock offset: -0.069 ms

Below is generated by plot.py at 2018-06-19 09:52:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 22.41 Mbit/s
95th percentile per-packet one-way delay: 64.890 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 22.41 Mbit/s
95th percentile per-packet one-way delay: 64.890 ms
Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-06-19 08:34:41

End at: 2018-06-19 08:35:11

Local clock offset: 0.013 ms

Remote clock offset: 0.139 ms

Below is generated by plot.py at 2018-06-19 09:52:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.44 Mbit/s

95th percentile per-packet one-way delay: 65.034 ms

Loss rate: 0.00%

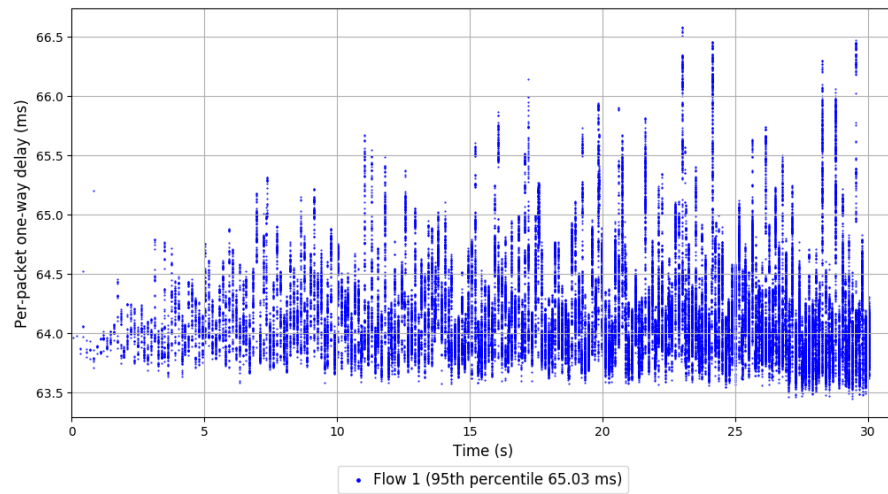
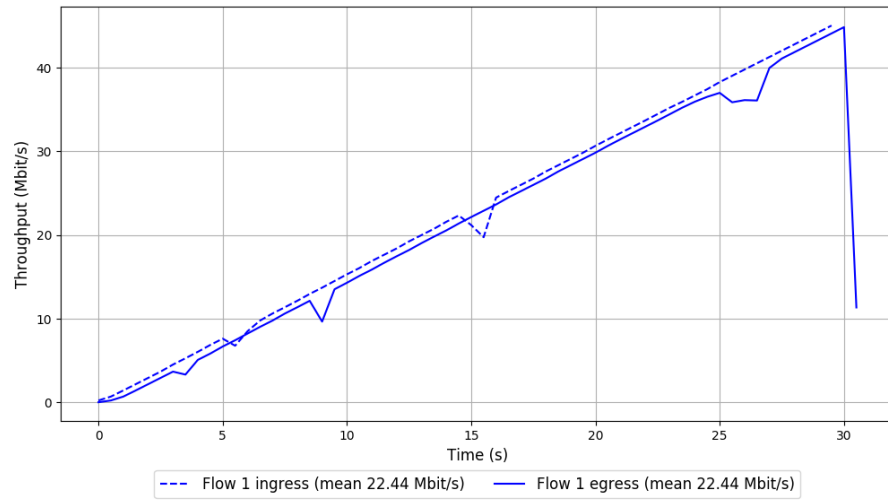
-- Flow 1:

Average throughput: 22.44 Mbit/s

95th percentile per-packet one-way delay: 65.034 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-06-19 08:54:33

End at: 2018-06-19 08:55:03

Local clock offset: -0.09 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2018-06-19 09:52:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.68 Mbit/s

95th percentile per-packet one-way delay: 64.808 ms

Loss rate: 0.00%

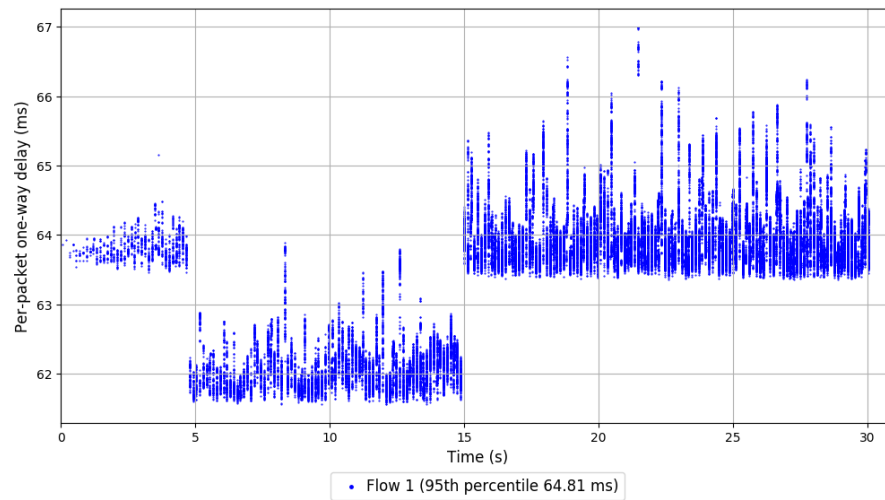
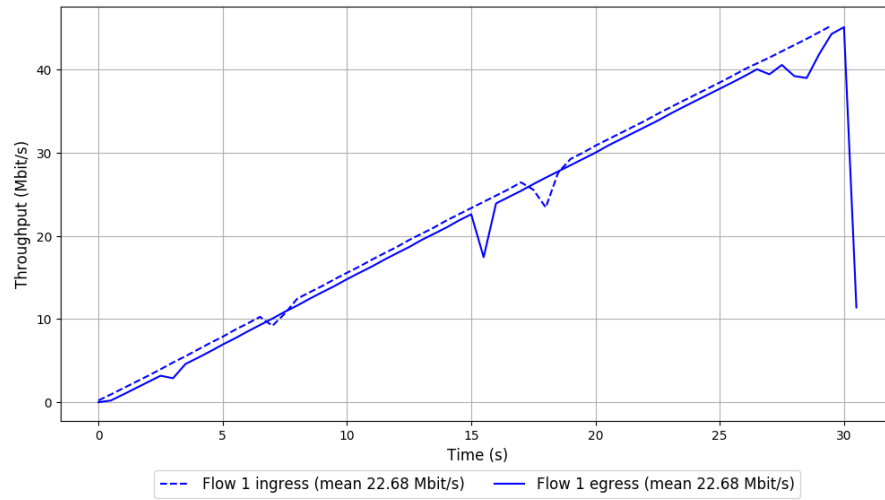
-- Flow 1:

Average throughput: 22.68 Mbit/s

95th percentile per-packet one-way delay: 64.808 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-06-19 06:00:22

End at: 2018-06-19 06:00:52

Local clock offset: 0.027 ms

Remote clock offset: -0.114 ms

Below is generated by plot.py at 2018-06-19 09:54:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 416.08 Mbit/s

95th percentile per-packet one-way delay: 228.007 ms

Loss rate: 3.43%

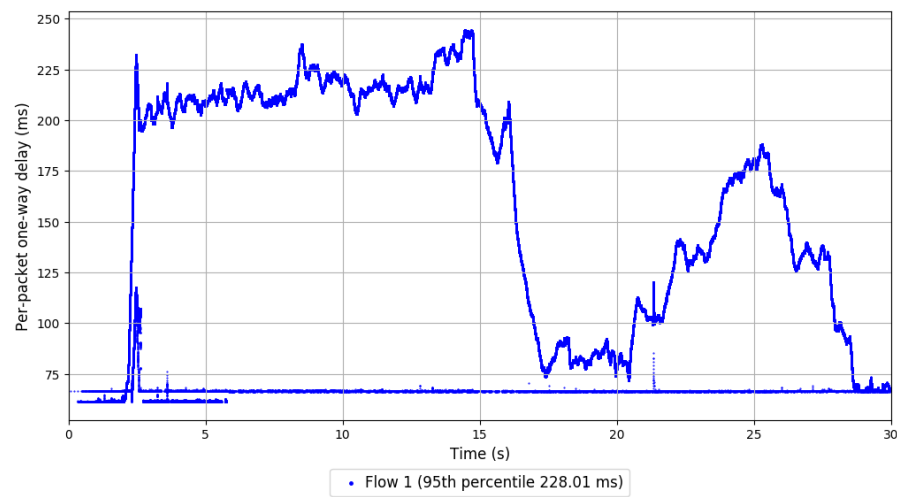
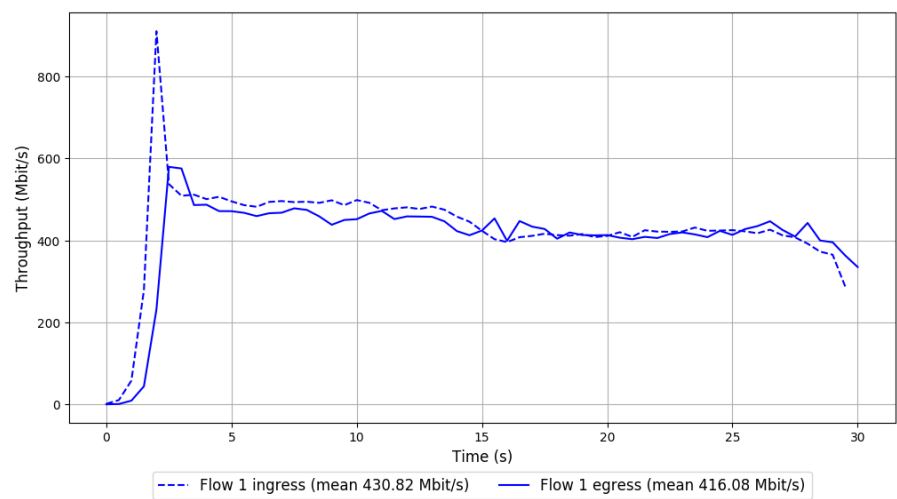
-- Flow 1:

Average throughput: 416.08 Mbit/s

95th percentile per-packet one-way delay: 228.007 ms

Loss rate: 3.43%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-06-19 06:19:50

End at: 2018-06-19 06:20:21

Local clock offset: 0.043 ms

Remote clock offset: -0.044 ms

Below is generated by plot.py at 2018-06-19 09:54:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 298.29 Mbit/s

95th percentile per-packet one-way delay: 74.353 ms

Loss rate: 0.11%

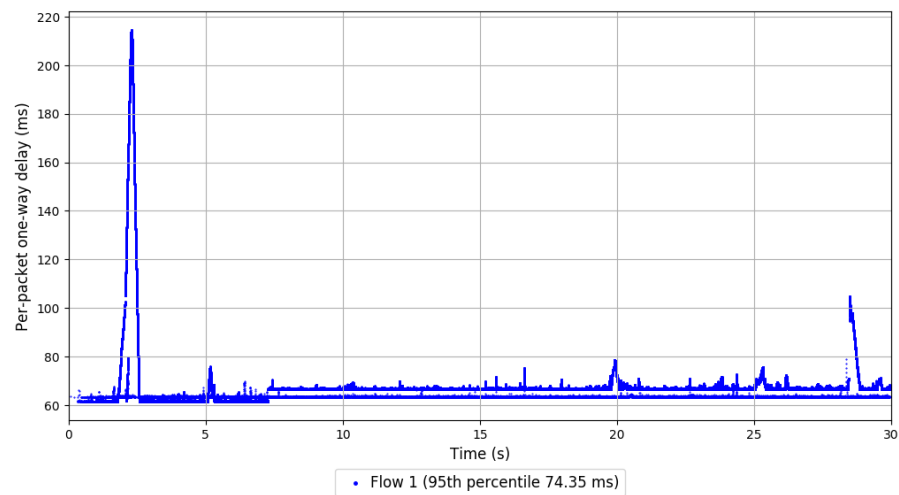
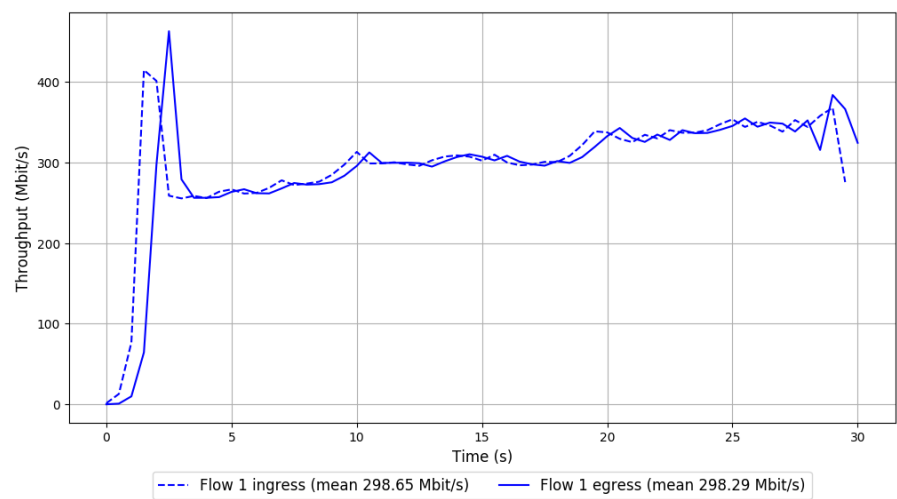
-- Flow 1:

Average throughput: 298.29 Mbit/s

95th percentile per-packet one-way delay: 74.353 ms

Loss rate: 0.11%

Run 2: Report of PCC-Allegro — Data Link

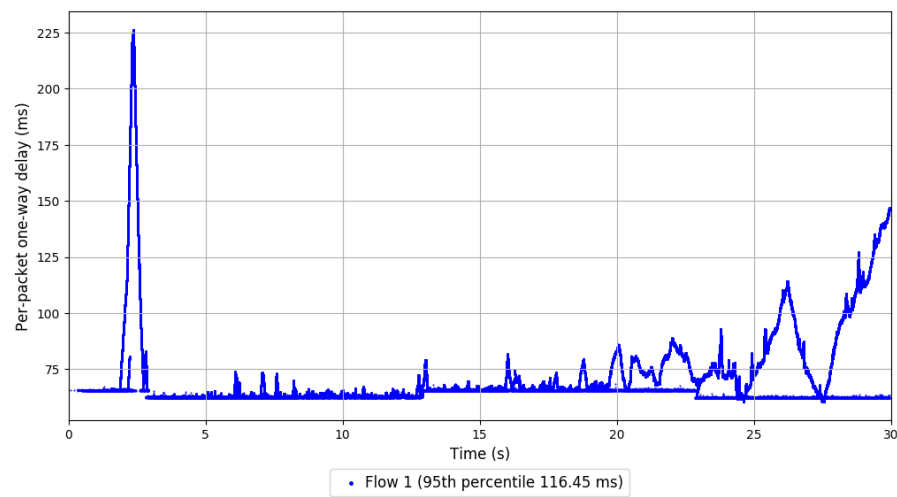
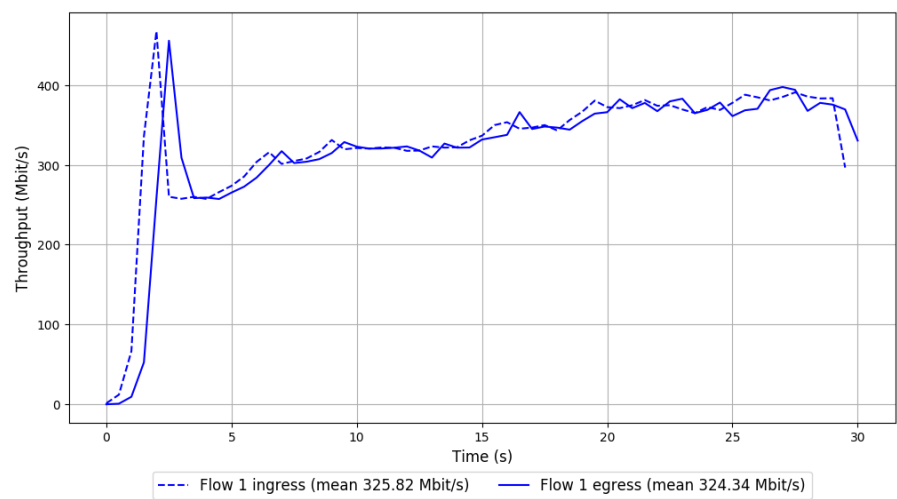


Run 3: Statistics of PCC-Allegro

Start at: 2018-06-19 06:39:45
End at: 2018-06-19 06:40:15
Local clock offset: -0.081 ms
Remote clock offset: -1.127 ms

Below is generated by plot.py at 2018-06-19 09:54:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 324.34 Mbit/s
95th percentile per-packet one-way delay: 116.455 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 324.34 Mbit/s
95th percentile per-packet one-way delay: 116.455 ms
Loss rate: 0.47%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-06-19 07:00:00

End at: 2018-06-19 07:00:30

Local clock offset: -0.139 ms

Remote clock offset: -1.399 ms

Below is generated by plot.py at 2018-06-19 09:54:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 337.58 Mbit/s

95th percentile per-packet one-way delay: 87.269 ms

Loss rate: 0.10%

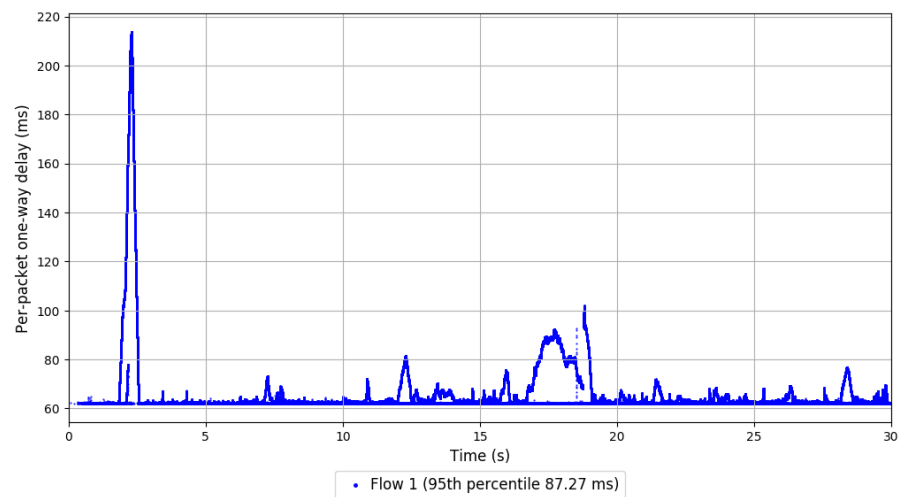
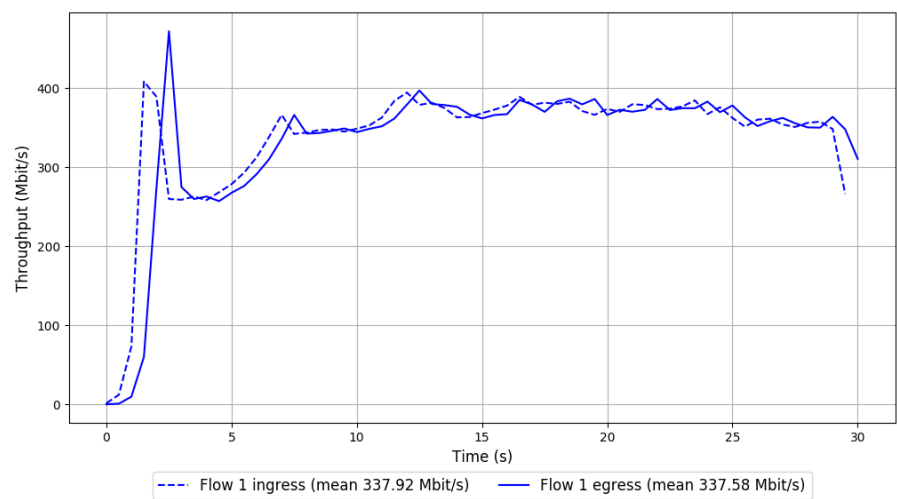
-- Flow 1:

Average throughput: 337.58 Mbit/s

95th percentile per-packet one-way delay: 87.269 ms

Loss rate: 0.10%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-06-19 07:20:15

End at: 2018-06-19 07:20:45

Local clock offset: -0.026 ms

Remote clock offset: 1.274 ms

Below is generated by plot.py at 2018-06-19 09:54:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 307.05 Mbit/s

95th percentile per-packet one-way delay: 68.940 ms

Loss rate: 0.12%

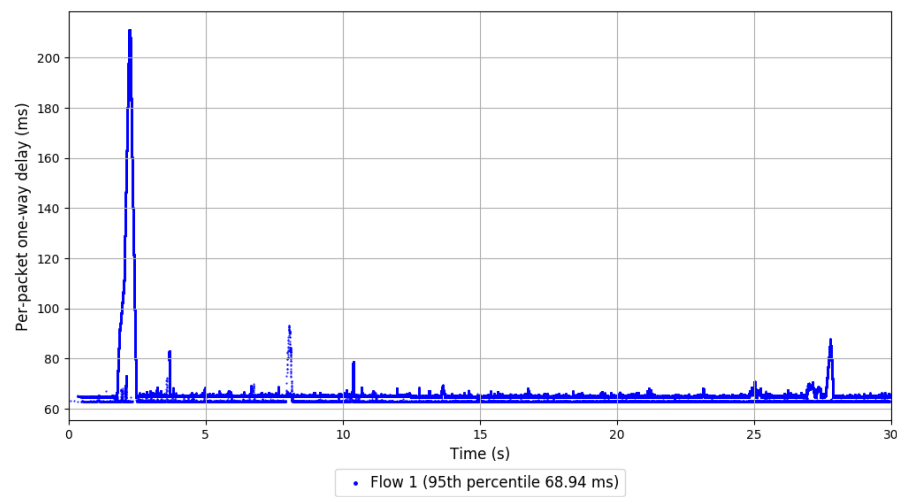
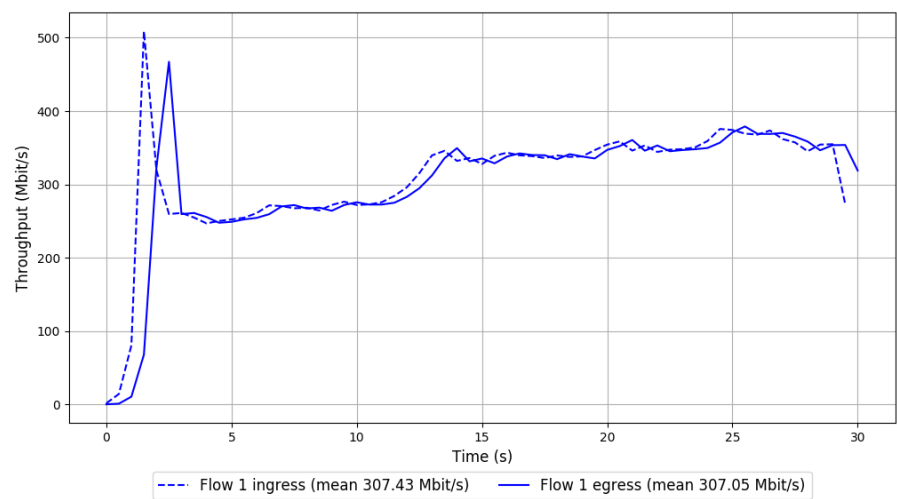
-- Flow 1:

Average throughput: 307.05 Mbit/s

95th percentile per-packet one-way delay: 68.940 ms

Loss rate: 0.12%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-06-19 07:40:27

End at: 2018-06-19 07:40:57

Local clock offset: -0.018 ms

Remote clock offset: -0.365 ms

Below is generated by plot.py at 2018-06-19 09:54:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 334.61 Mbit/s

95th percentile per-packet one-way delay: 94.752 ms

Loss rate: 0.23%

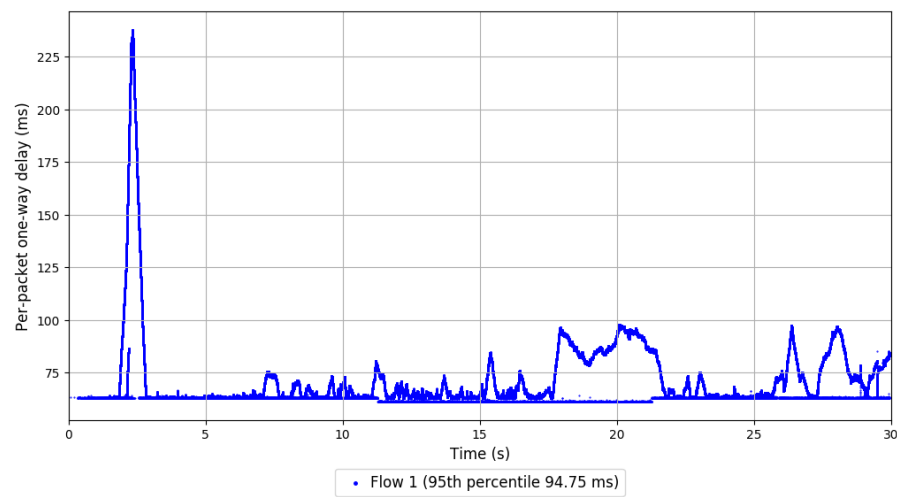
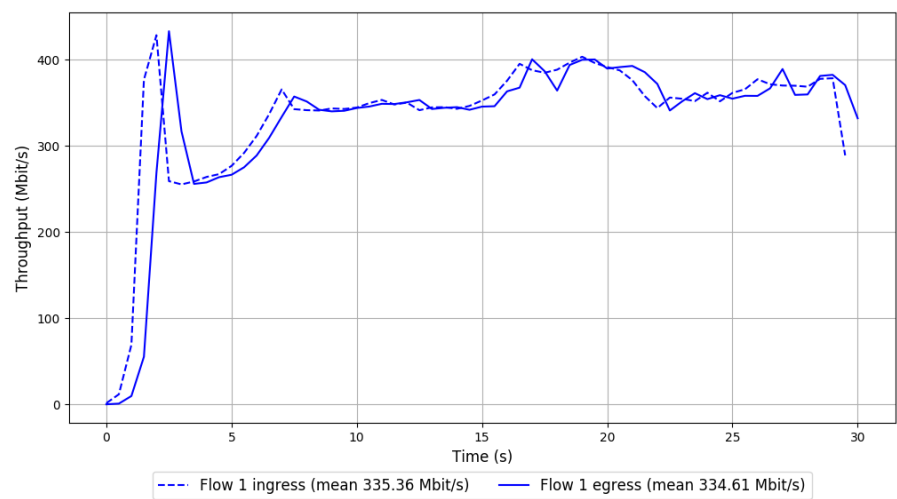
-- Flow 1:

Average throughput: 334.61 Mbit/s

95th percentile per-packet one-way delay: 94.752 ms

Loss rate: 0.23%

Run 6: Report of PCC-Allegro — Data Link

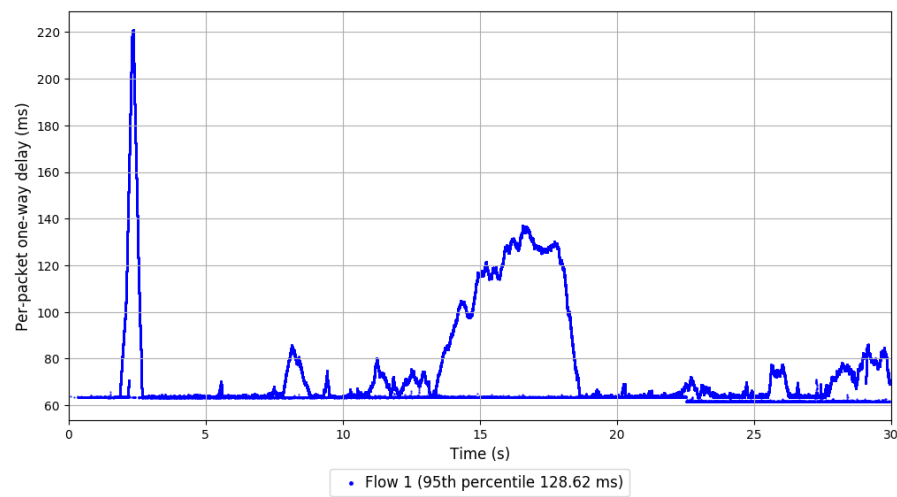
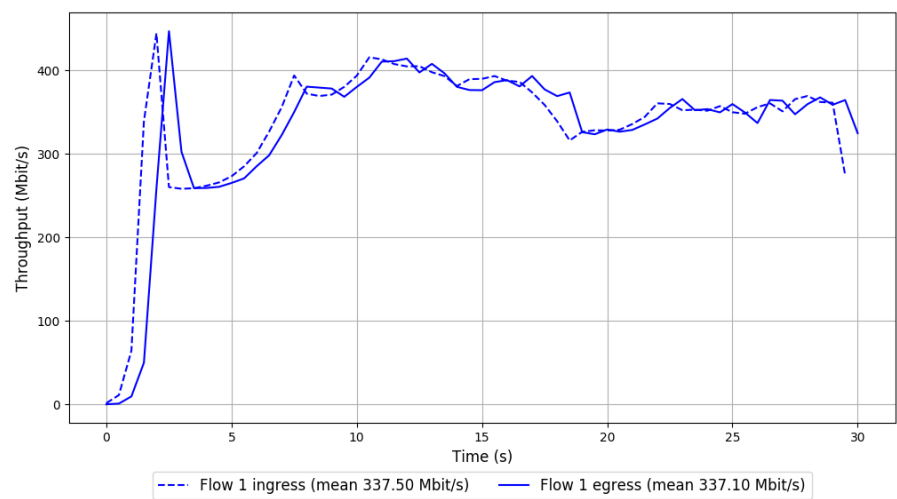


Run 7: Statistics of PCC-Allegro

Start at: 2018-06-19 08:00:35
End at: 2018-06-19 08:01:05
Local clock offset: -0.026 ms
Remote clock offset: -0.011 ms

Below is generated by plot.py at 2018-06-19 09:54:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 337.10 Mbit/s
95th percentile per-packet one-way delay: 128.624 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 337.10 Mbit/s
95th percentile per-packet one-way delay: 128.624 ms
Loss rate: 0.12%

Run 7: Report of PCC-Allegro — Data Link

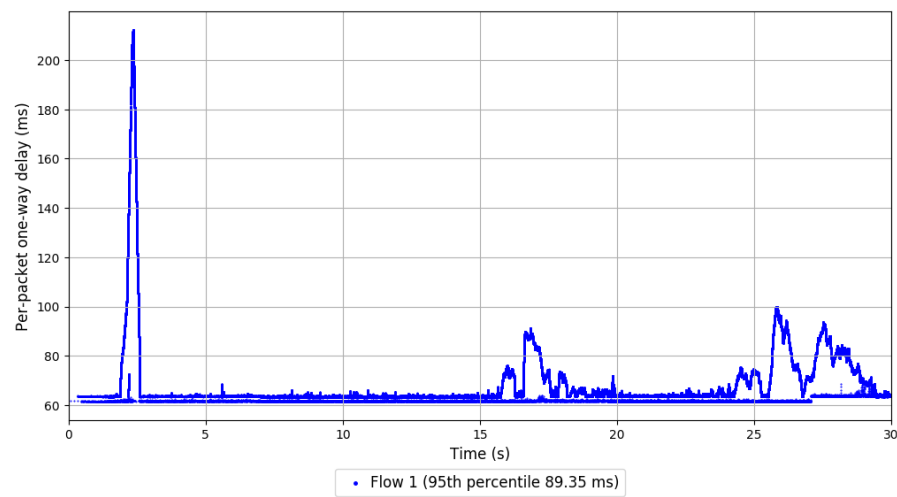
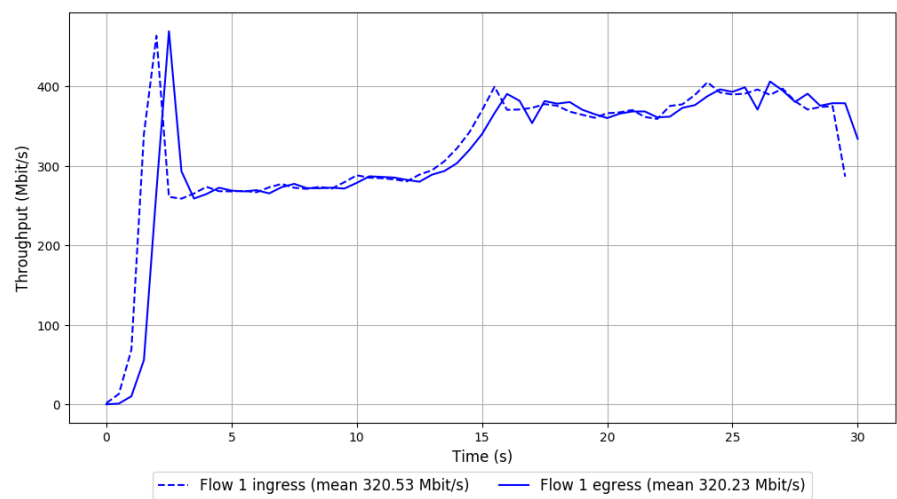


Run 8: Statistics of PCC-Allegro

Start at: 2018-06-19 08:20:41
End at: 2018-06-19 08:21:11
Local clock offset: -0.042 ms
Remote clock offset: -0.016 ms

Below is generated by plot.py at 2018-06-19 09:58:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 320.23 Mbit/s
95th percentile per-packet one-way delay: 89.347 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 320.23 Mbit/s
95th percentile per-packet one-way delay: 89.347 ms
Loss rate: 0.09%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-06-19 08:40:47

End at: 2018-06-19 08:41:17

Local clock offset: 0.016 ms

Remote clock offset: 0.012 ms

Below is generated by plot.py at 2018-06-19 09:58:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 337.79 Mbit/s

95th percentile per-packet one-way delay: 108.033 ms

Loss rate: 0.14%

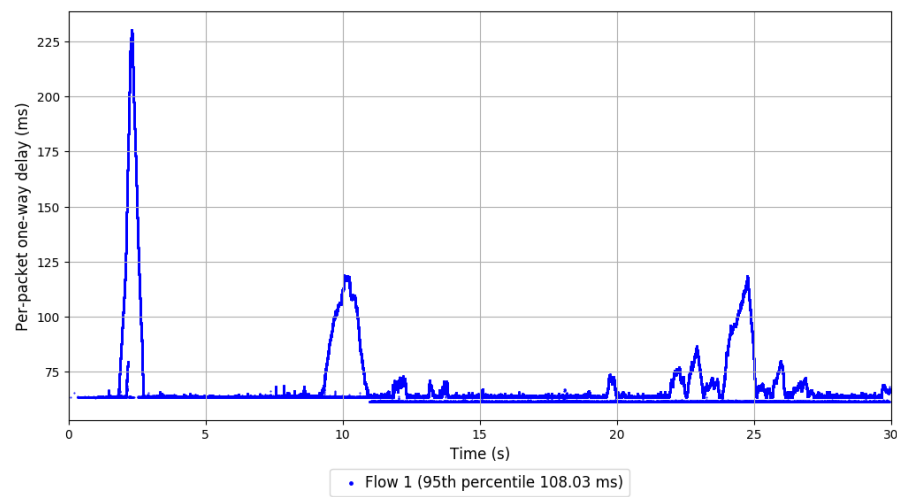
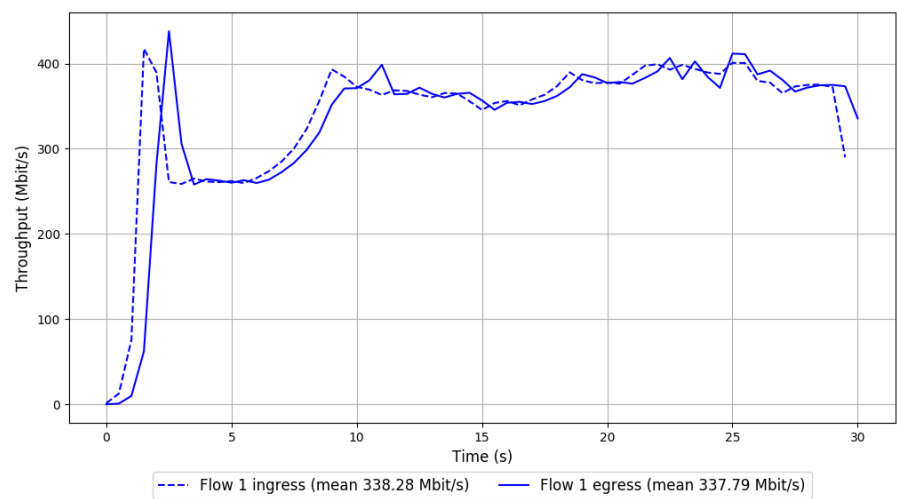
-- Flow 1:

Average throughput: 337.79 Mbit/s

95th percentile per-packet one-way delay: 108.033 ms

Loss rate: 0.14%

Run 9: Report of PCC-Allegro — Data Link

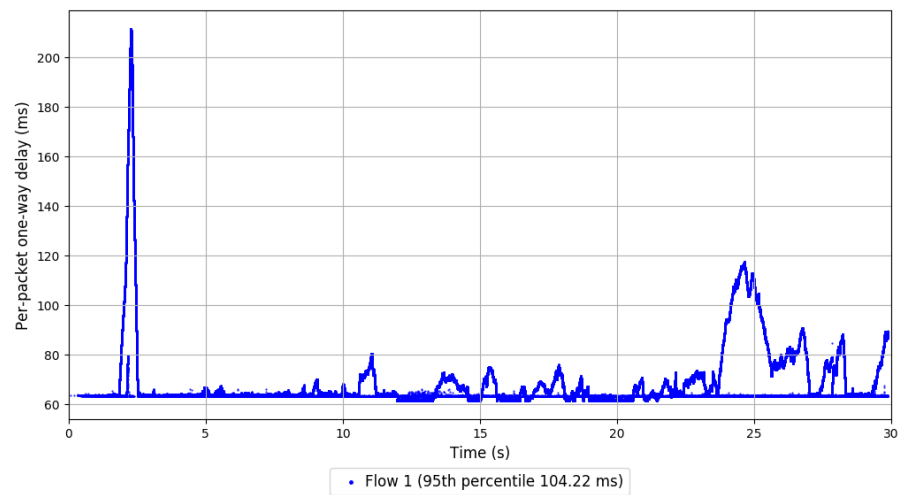
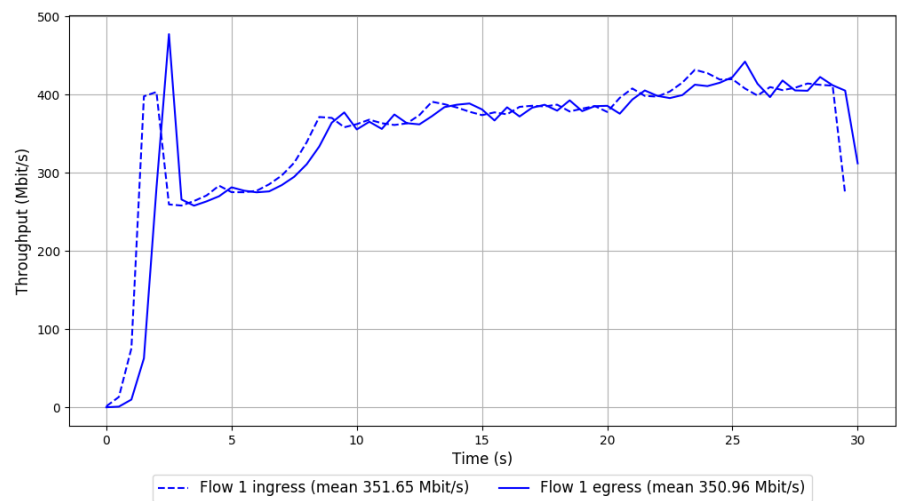


Run 10: Statistics of PCC-Allegro

Start at: 2018-06-19 09:00:46
End at: 2018-06-19 09:01:16
Local clock offset: -0.106 ms
Remote clock offset: -0.049 ms

Below is generated by plot.py at 2018-06-19 09:59:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 350.96 Mbit/s
95th percentile per-packet one-way delay: 104.217 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 350.96 Mbit/s
95th percentile per-packet one-way delay: 104.217 ms
Loss rate: 0.19%

Run 10: Report of PCC-Allegro — Data Link

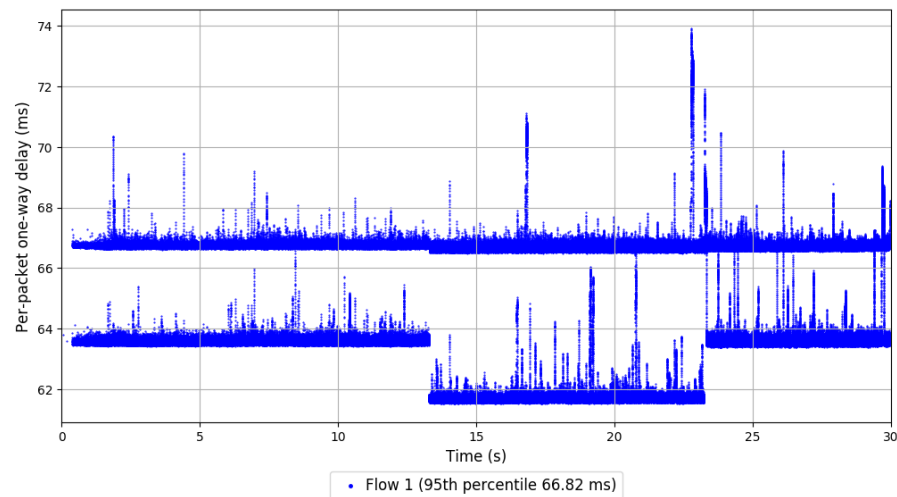
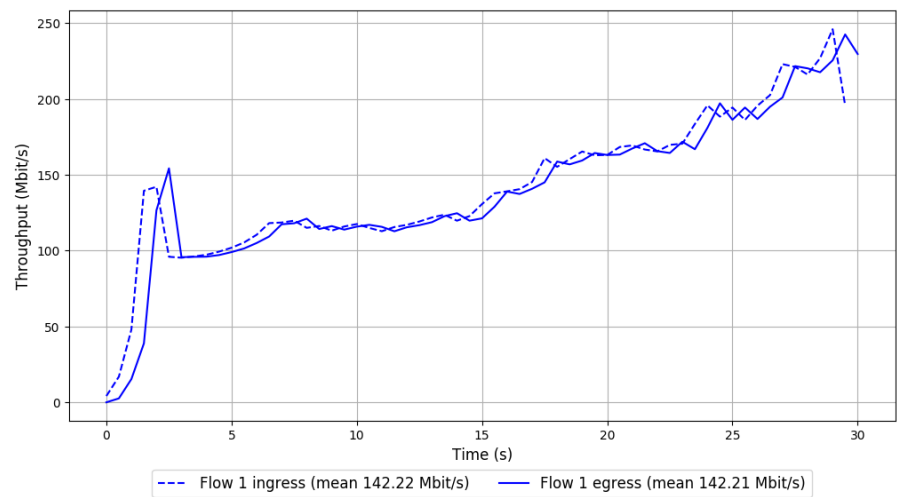


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-19 05:45:45
End at: 2018-06-19 05:46:15
Local clock offset: -0.042 ms
Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2018-06-19 09:59:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 142.21 Mbit/s
95th percentile per-packet one-way delay: 66.820 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 142.21 Mbit/s
95th percentile per-packet one-way delay: 66.820 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Expr — Data Link

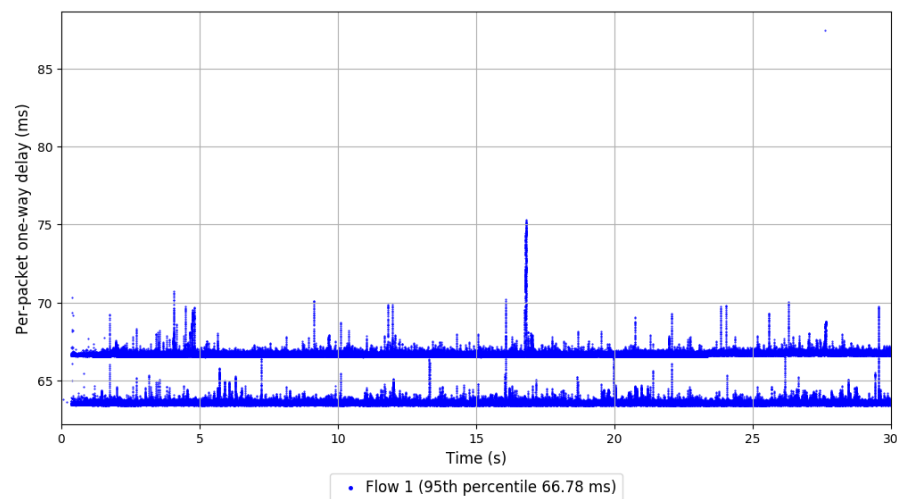
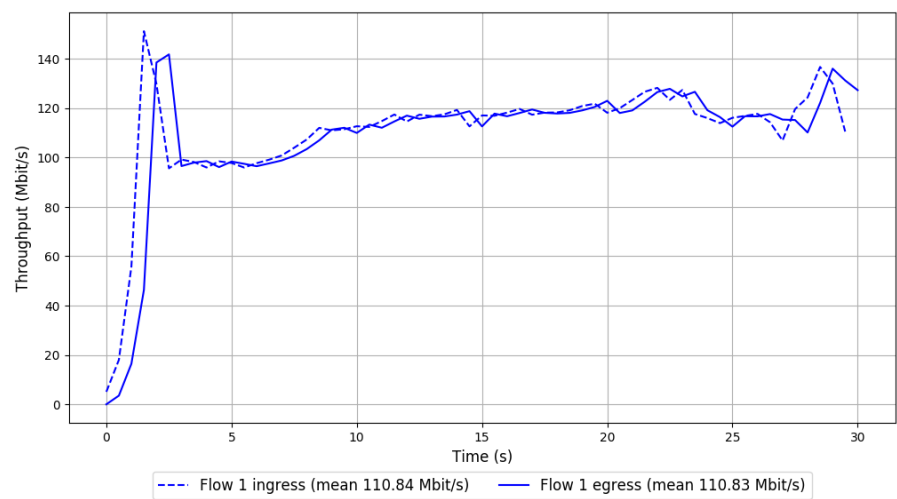


```
Run 2: Statistics of PCC-Expr

Start at: 2018-06-19 06:05:34
End at: 2018-06-19 06:06:04
Local clock offset: 0.027 ms
Remote clock offset: 0.051 ms

# Below is generated by plot.py at 2018-06-19 09:59:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 110.83 Mbit/s
95th percentile per-packet one-way delay: 66.782 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 110.83 Mbit/s
95th percentile per-packet one-way delay: 66.782 ms
Loss rate: 0.01%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-06-19 06:25:07

End at: 2018-06-19 06:25:37

Local clock offset: 0.059 ms

Remote clock offset: 0.15 ms

Below is generated by plot.py at 2018-06-19 09:59:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.43 Mbit/s

95th percentile per-packet one-way delay: 66.872 ms

Loss rate: 0.00%

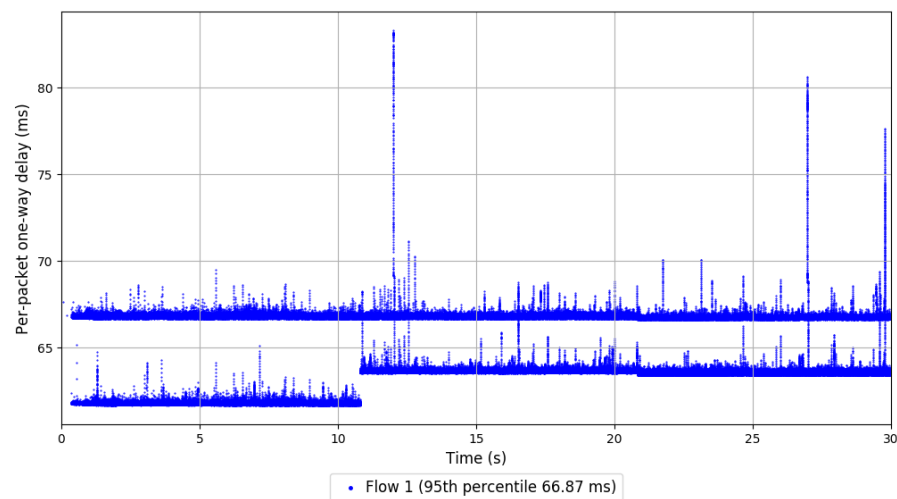
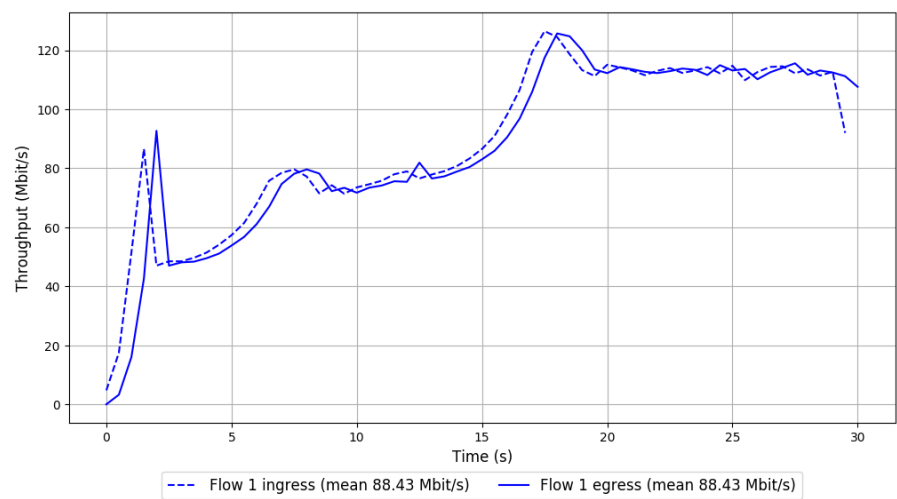
-- Flow 1:

Average throughput: 88.43 Mbit/s

95th percentile per-packet one-way delay: 66.872 ms

Loss rate: 0.00%

Run 3: Report of PCC-Expr — Data Link

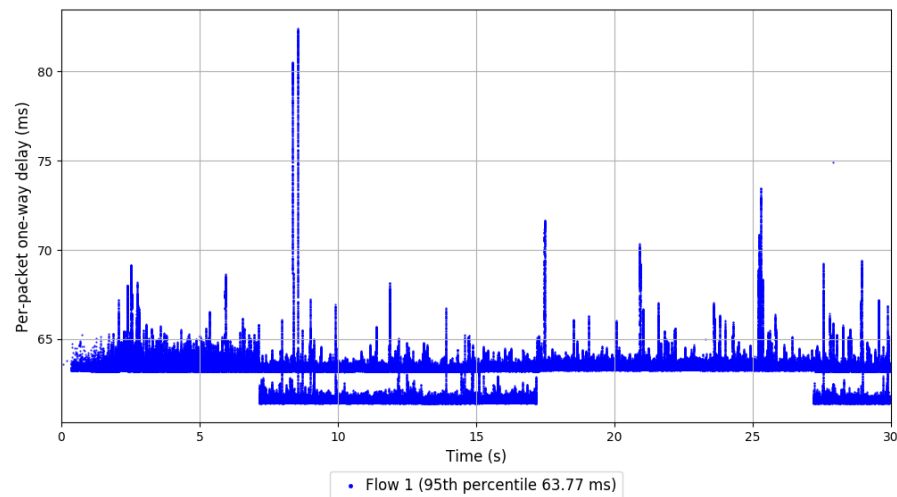
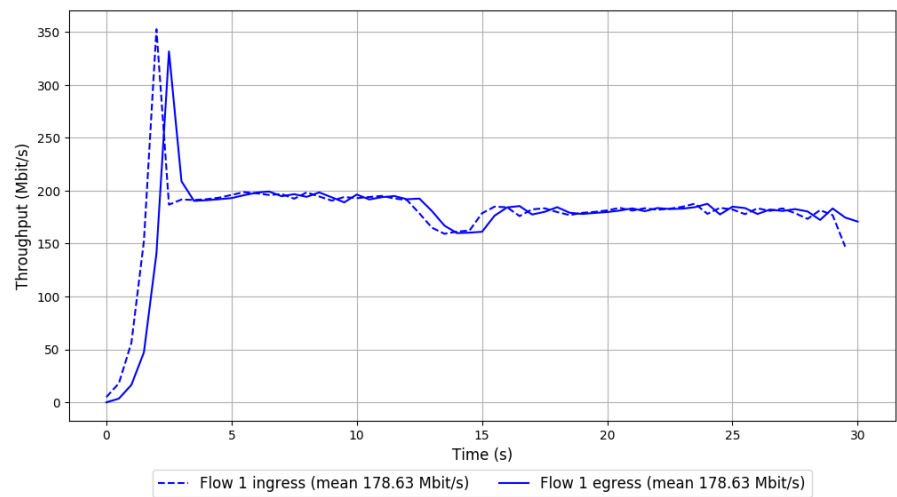


Run 4: Statistics of PCC-Expr

Start at: 2018-06-19 06:45:11
End at: 2018-06-19 06:45:41
Local clock offset: -0.075 ms
Remote clock offset: -0.116 ms

Below is generated by plot.py at 2018-06-19 10:00:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 178.63 Mbit/s
95th percentile per-packet one-way delay: 63.767 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 178.63 Mbit/s
95th percentile per-packet one-way delay: 63.767 ms
Loss rate: 0.00%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-06-19 07:05:24

End at: 2018-06-19 07:05:54

Local clock offset: -0.063 ms

Remote clock offset: -1.349 ms

Below is generated by plot.py at 2018-06-19 10:01:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.18 Mbit/s

95th percentile per-packet one-way delay: 62.837 ms

Loss rate: 0.00%

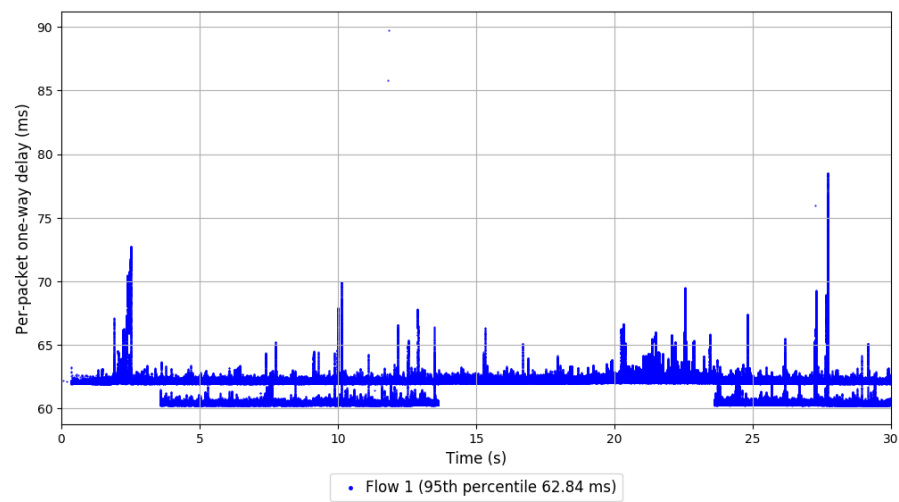
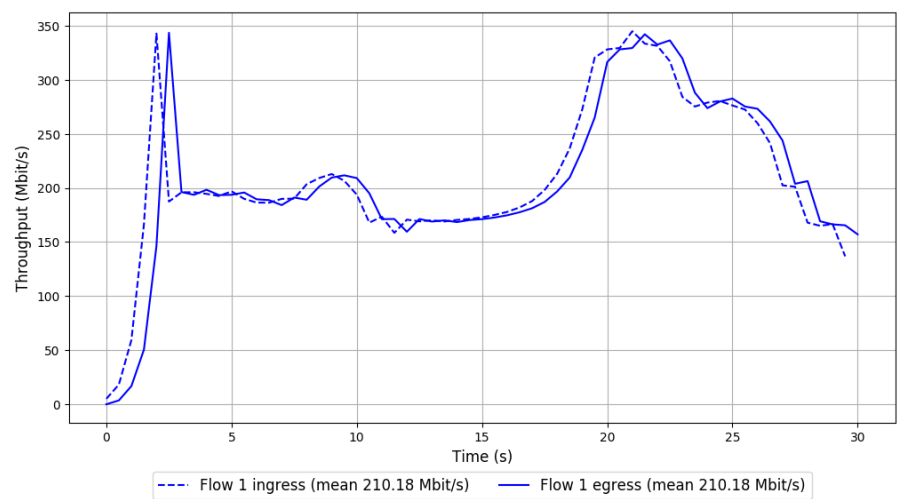
-- Flow 1:

Average throughput: 210.18 Mbit/s

95th percentile per-packet one-way delay: 62.837 ms

Loss rate: 0.00%

Run 5: Report of PCC-Expr — Data Link

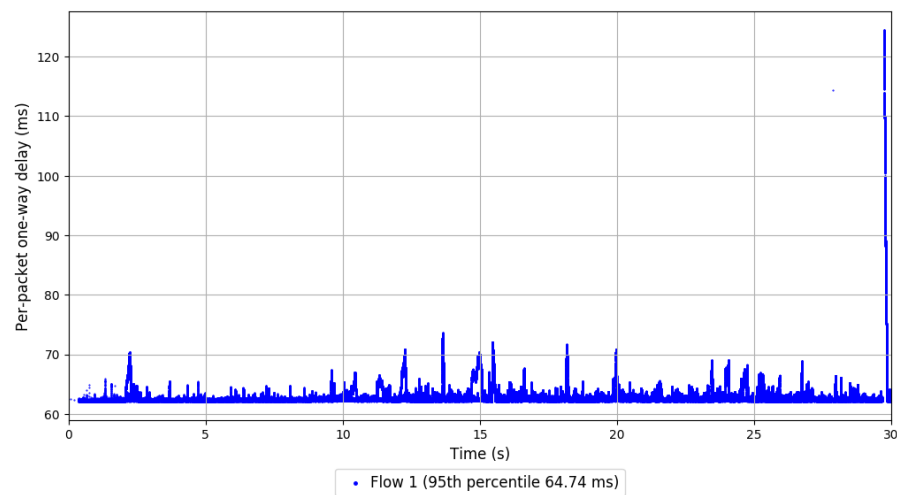
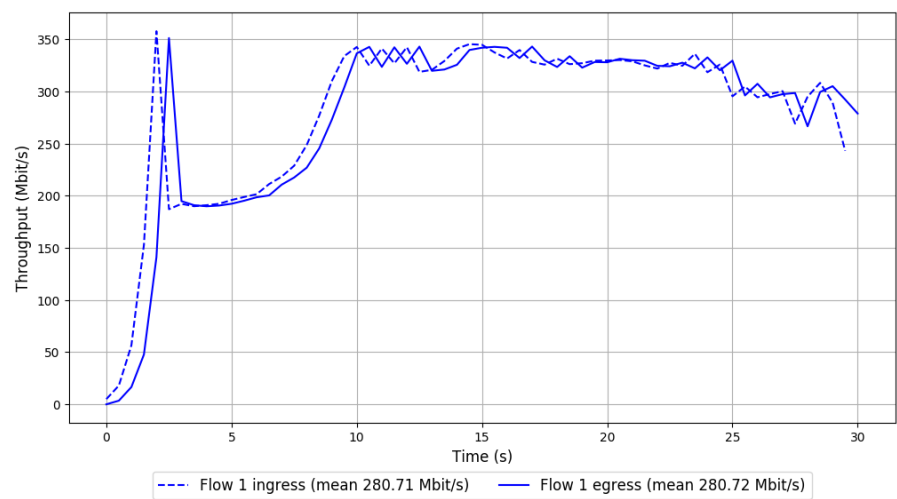


Run 6: Statistics of PCC-Expr

Start at: 2018-06-19 07:25:36
End at: 2018-06-19 07:26:06
Local clock offset: -0.015 ms
Remote clock offset: -1.211 ms

Below is generated by plot.py at 2018-06-19 10:06:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 280.72 Mbit/s
95th percentile per-packet one-way delay: 64.736 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 280.72 Mbit/s
95th percentile per-packet one-way delay: 64.736 ms
Loss rate: 0.00%

Run 6: Report of PCC-Expr — Data Link

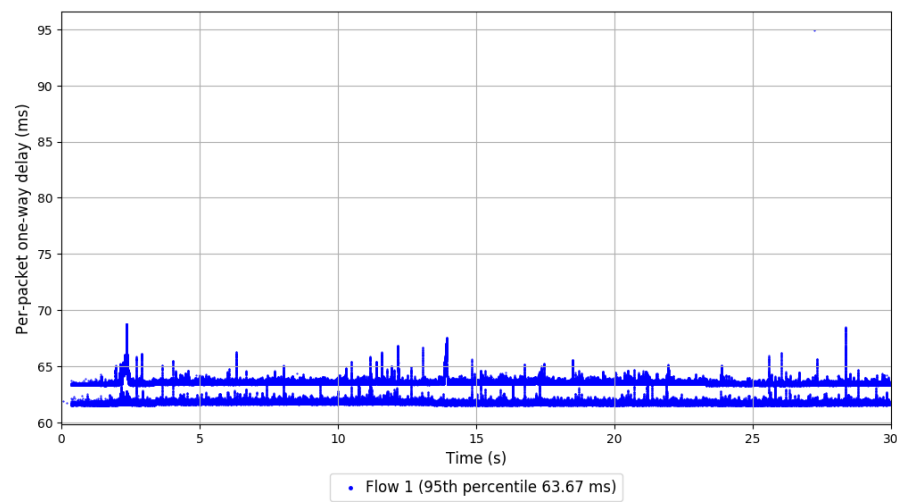
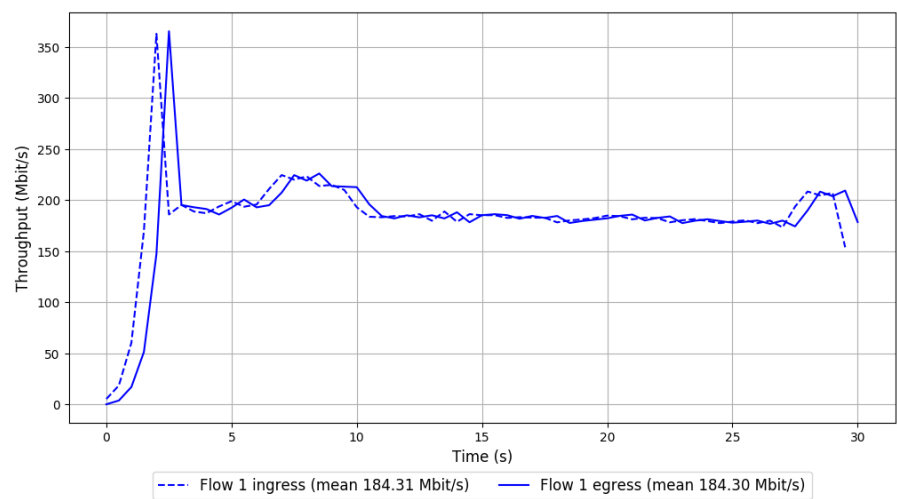


Run 7: Statistics of PCC-Expr

Start at: 2018-06-19 07:45:44
End at: 2018-06-19 07:46:14
Local clock offset: -0.053 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2018-06-19 10:06:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 184.30 Mbit/s
95th percentile per-packet one-way delay: 63.667 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 184.30 Mbit/s
95th percentile per-packet one-way delay: 63.667 ms
Loss rate: 0.00%

Run 7: Report of PCC-Expr — Data Link

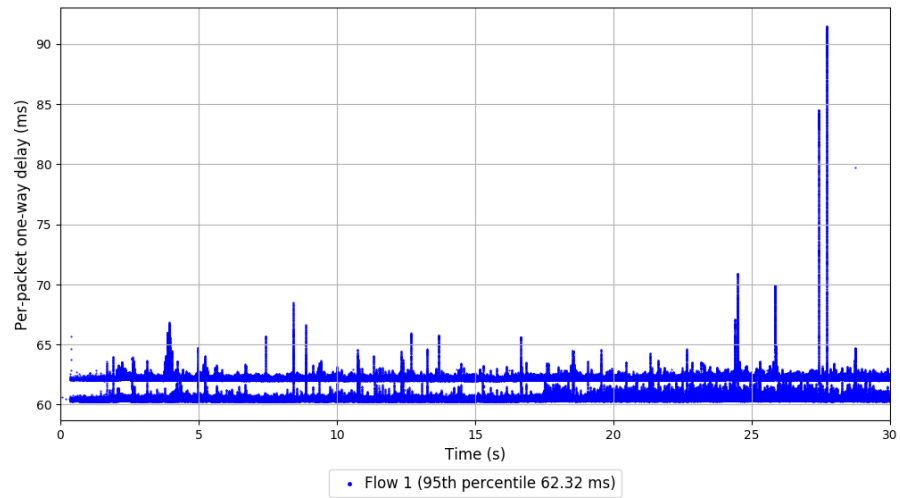
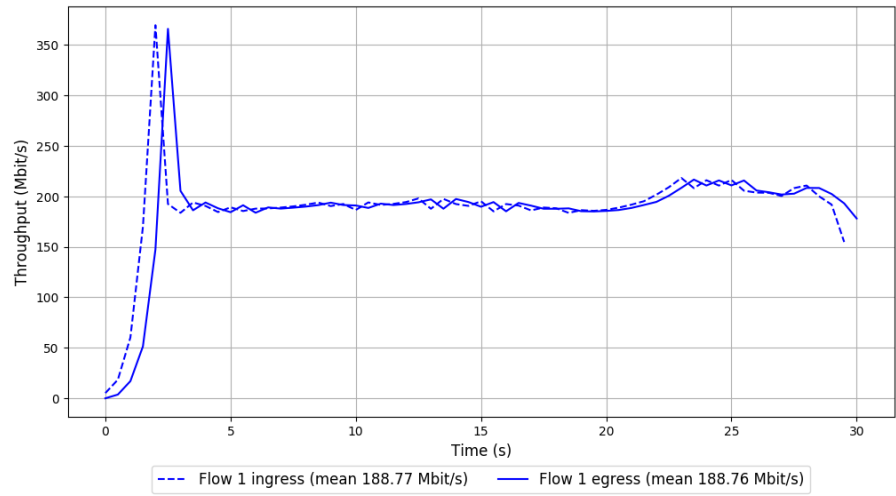


Run 8: Statistics of PCC-Expr

Start at: 2018-06-19 08:05:51
End at: 2018-06-19 08:06:21
Local clock offset: -0.039 ms
Remote clock offset: -1.393 ms

Below is generated by plot.py at 2018-06-19 10:06:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 188.76 Mbit/s
95th percentile per-packet one-way delay: 62.317 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 188.76 Mbit/s
95th percentile per-packet one-way delay: 62.317 ms
Loss rate: 0.00%

Run 8: Report of PCC-Expr — Data Link

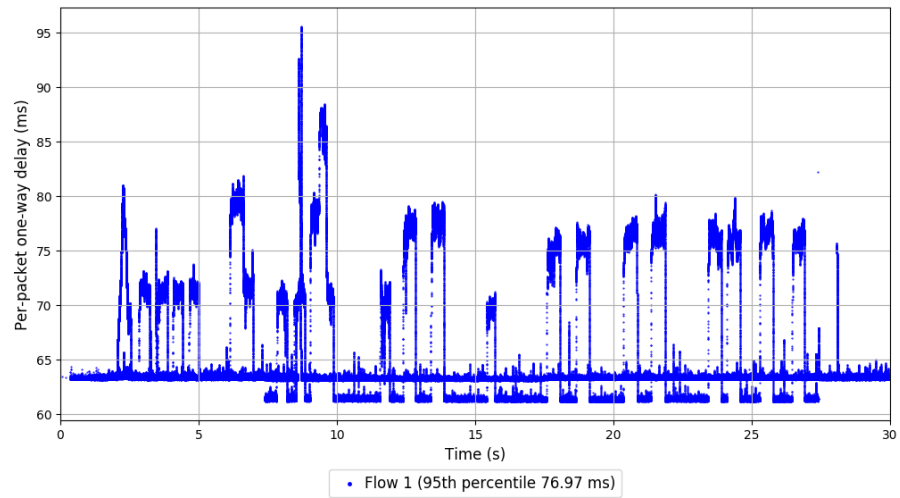
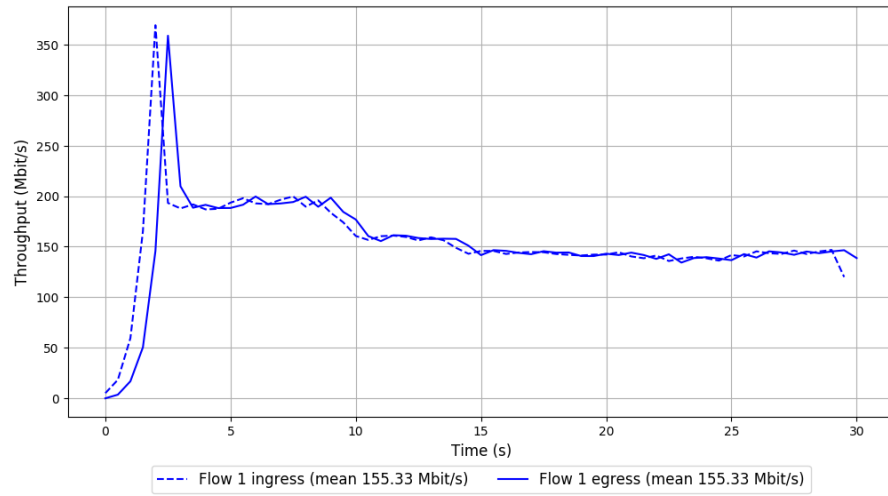


Run 9: Statistics of PCC-Expr

Start at: 2018-06-19 08:26:10
End at: 2018-06-19 08:26:40
Local clock offset: -0.001 ms
Remote clock offset: -0.233 ms

Below is generated by plot.py at 2018-06-19 10:06:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 155.33 Mbit/s
95th percentile per-packet one-way delay: 76.967 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 155.33 Mbit/s
95th percentile per-packet one-way delay: 76.967 ms
Loss rate: 0.00%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-06-19 08:45:55

End at: 2018-06-19 08:46:25

Local clock offset: -0.037 ms

Remote clock offset: 0.137 ms

Below is generated by plot.py at 2018-06-19 10:07:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 244.34 Mbit/s

95th percentile per-packet one-way delay: 64.633 ms

Loss rate: 0.00%

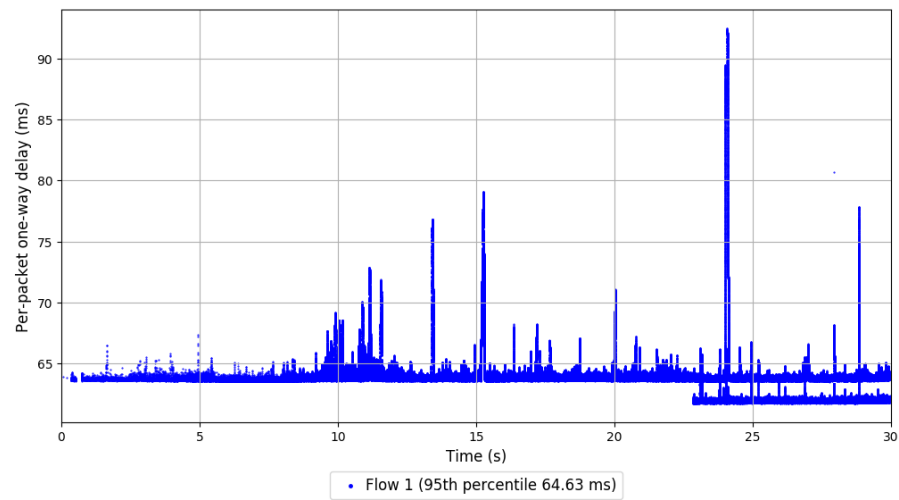
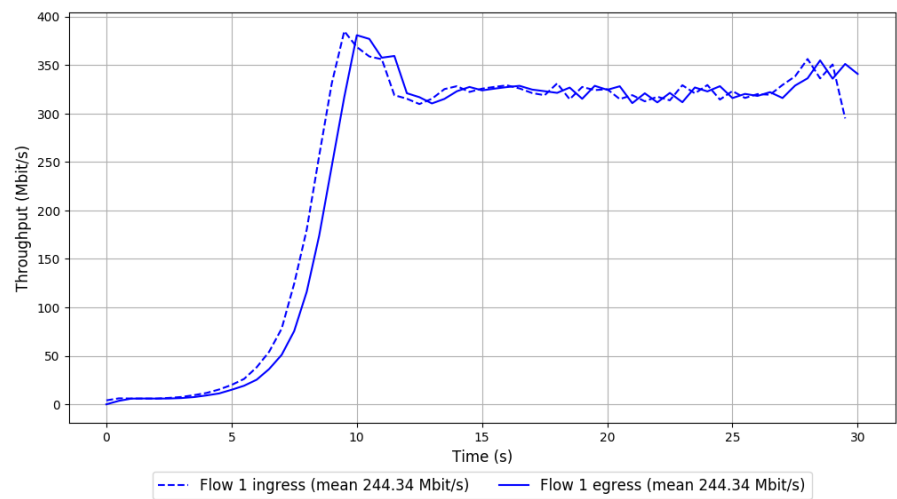
-- Flow 1:

Average throughput: 244.34 Mbit/s

95th percentile per-packet one-way delay: 64.633 ms

Loss rate: 0.00%

Run 10: Report of PCC-Expr — Data Link

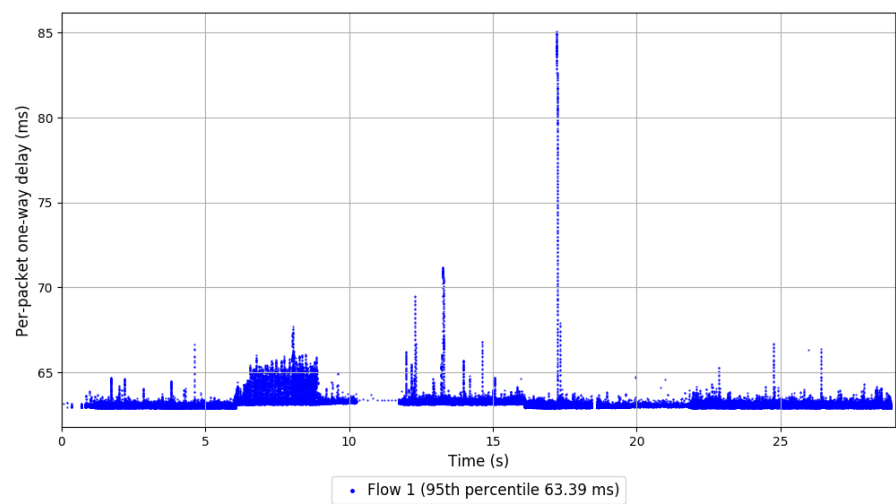
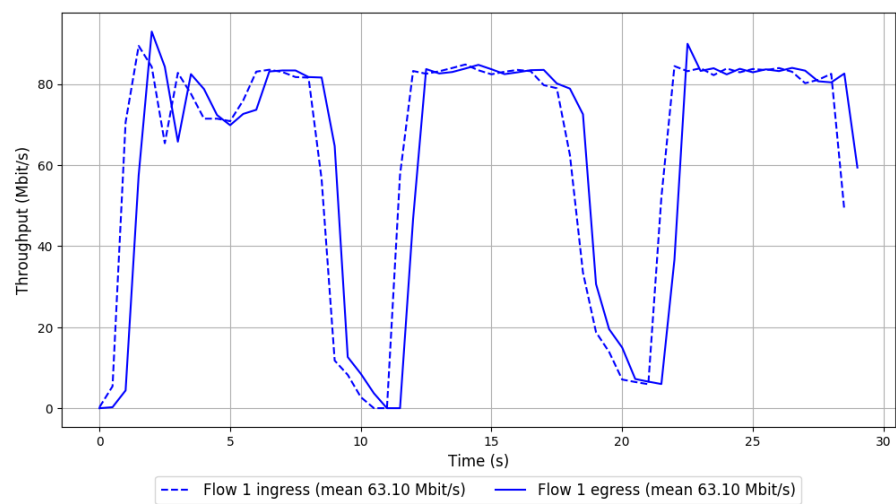


Run 1: Statistics of QUIC Cubic

Start at: 2018-06-19 05:52:01
End at: 2018-06-19 05:52:31
Local clock offset: 0.007 ms
Remote clock offset: -0.259 ms

Below is generated by plot.py at 2018-06-19 10:07:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 63.10 Mbit/s
95th percentile per-packet one-way delay: 63.393 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.10 Mbit/s
95th percentile per-packet one-way delay: 63.393 ms
Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

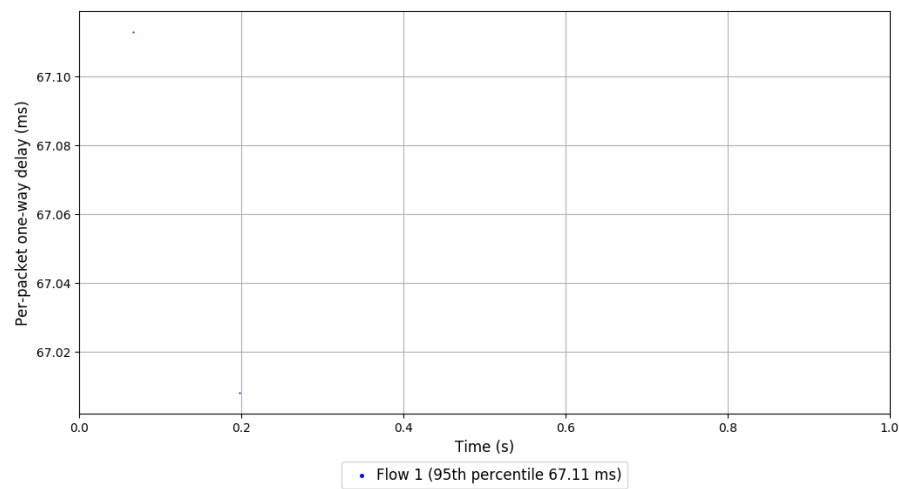
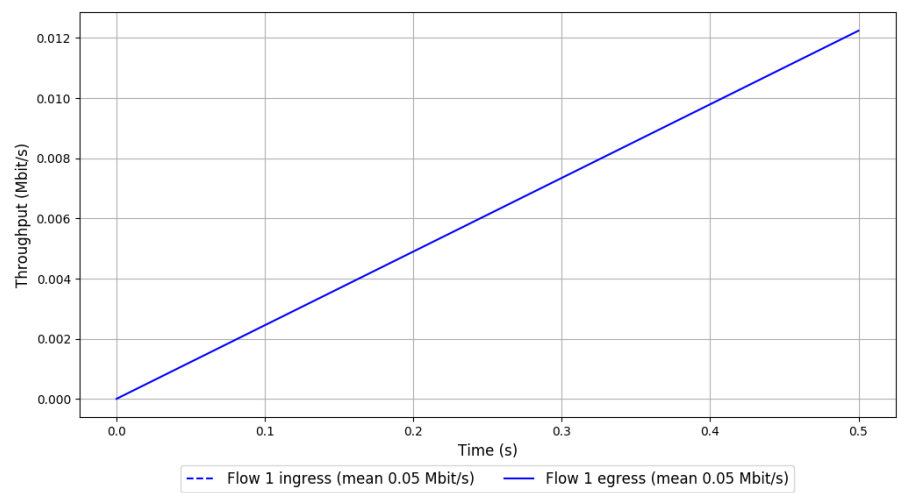
Start at: 2018-06-19 06:11:52

End at: 2018-06-19 06:12:22

Local clock offset: 0.036 ms

Remote clock offset: 0.421 ms

Run 2: Report of QUIC Cubic — Data Link

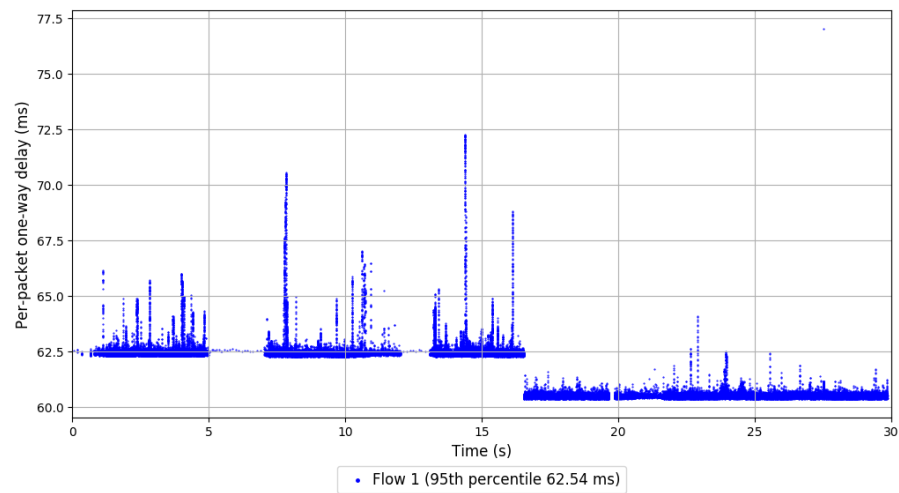
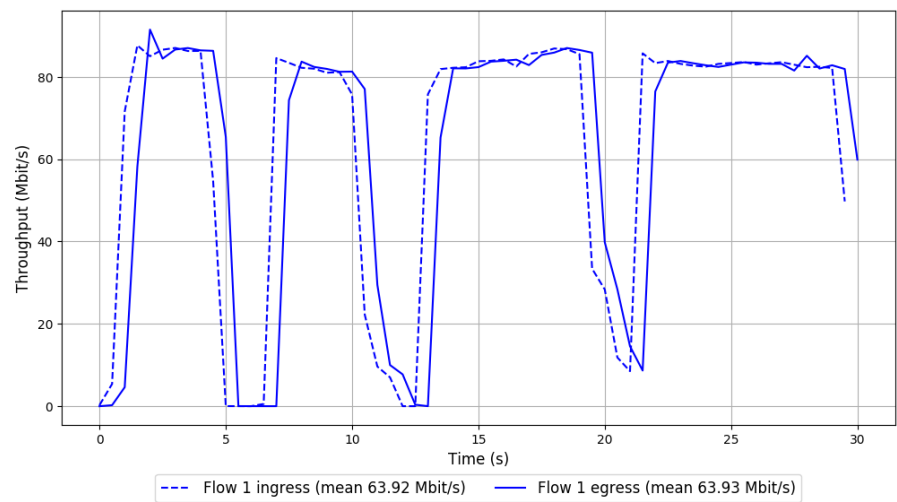


Run 3: Statistics of QUIC Cubic

Start at: 2018-06-19 06:31:21
End at: 2018-06-19 06:31:51
Local clock offset: -0.018 ms
Remote clock offset: -1.117 ms

Below is generated by plot.py at 2018-06-19 10:07:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 63.93 Mbit/s
95th percentile per-packet one-way delay: 62.540 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.93 Mbit/s
95th percentile per-packet one-way delay: 62.540 ms
Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-06-19 06:51:35

End at: 2018-06-19 06:52:05

Local clock offset: -0.118 ms

Remote clock offset: -1.279 ms

Below is generated by plot.py at 2018-06-19 10:07:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.01 Mbit/s

95th percentile per-packet one-way delay: 62.501 ms

Loss rate: 0.00%

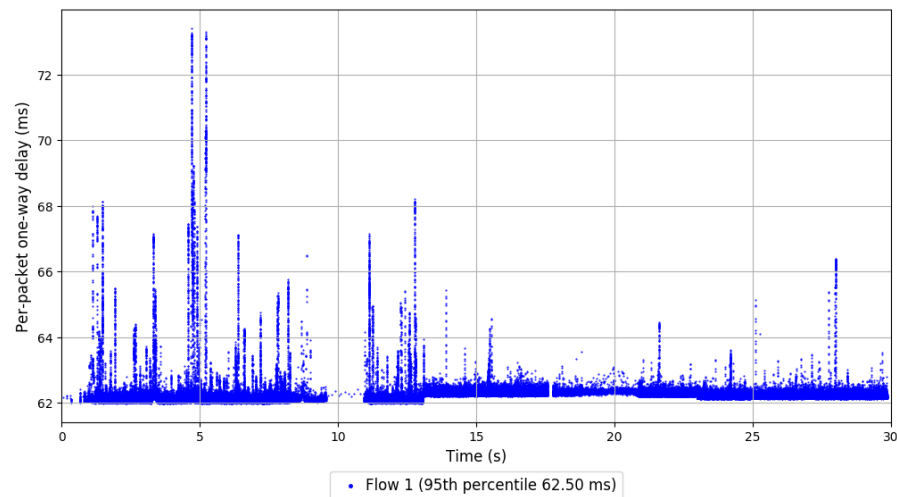
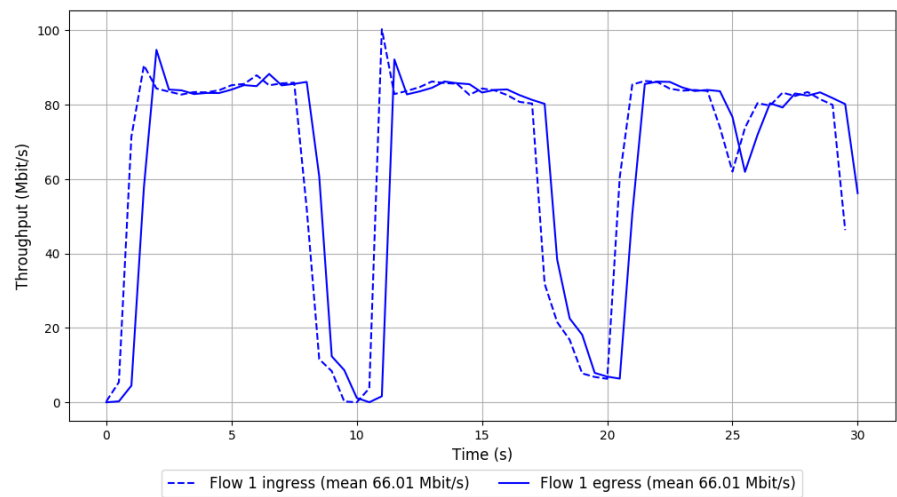
-- Flow 1:

Average throughput: 66.01 Mbit/s

95th percentile per-packet one-way delay: 62.501 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-06-19 07:11:46

End at: 2018-06-19 07:12:16

Local clock offset: -0.017 ms

Remote clock offset: 0.04 ms

Below is generated by plot.py at 2018-06-19 10:07:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.37 Mbit/s

95th percentile per-packet one-way delay: 63.719 ms

Loss rate: 0.00%

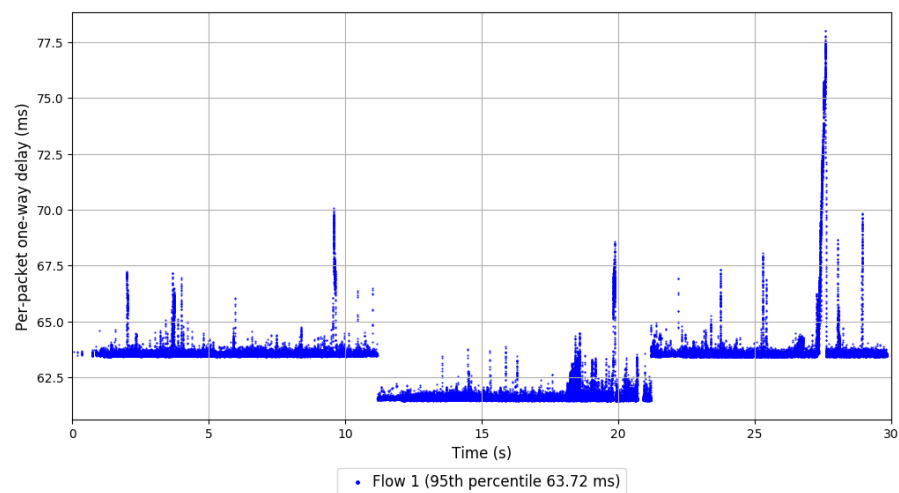
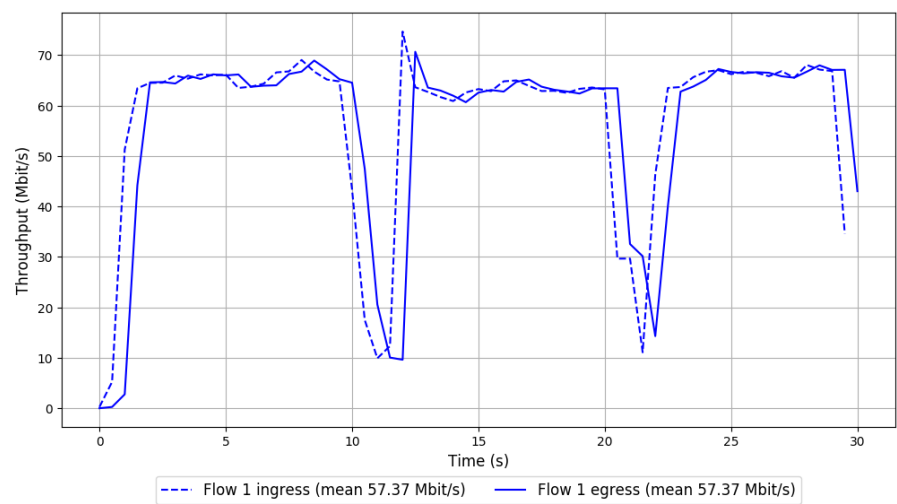
-- Flow 1:

Average throughput: 57.37 Mbit/s

95th percentile per-packet one-way delay: 63.719 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-06-19 07:32:02

End at: 2018-06-19 07:32:32

Local clock offset: 0.006 ms

Remote clock offset: -0.197 ms

Below is generated by plot.py at 2018-06-19 10:07:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.50 Mbit/s

95th percentile per-packet one-way delay: 63.237 ms

Loss rate: 0.00%

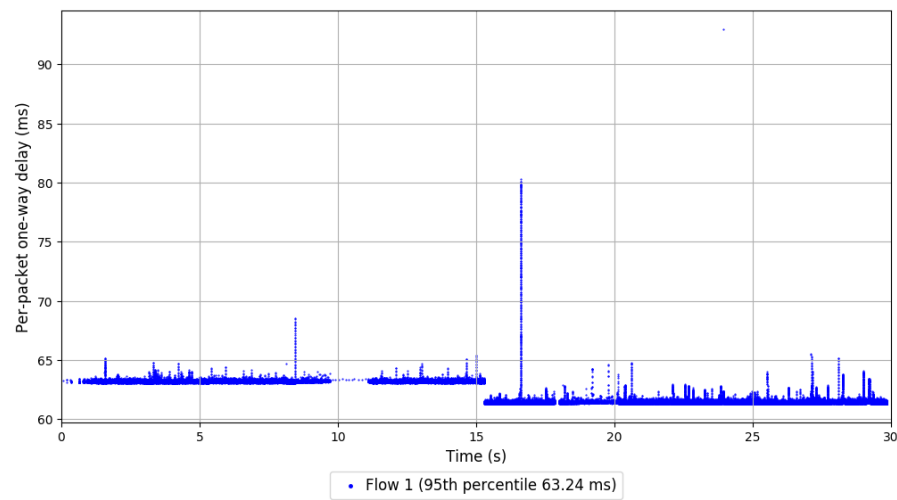
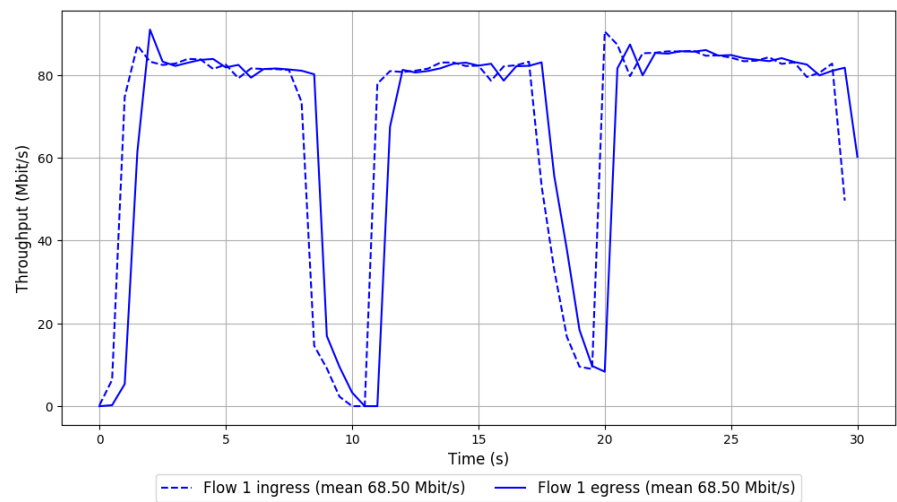
-- Flow 1:

Average throughput: 68.50 Mbit/s

95th percentile per-packet one-way delay: 63.237 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link

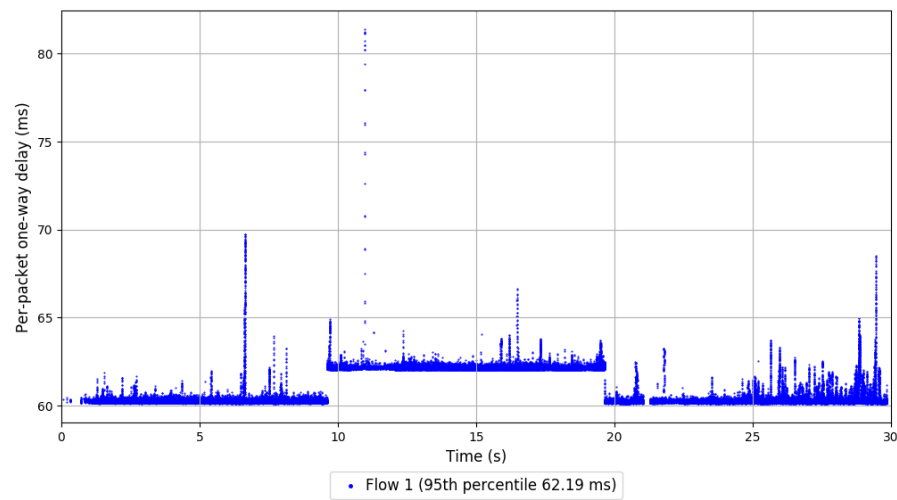
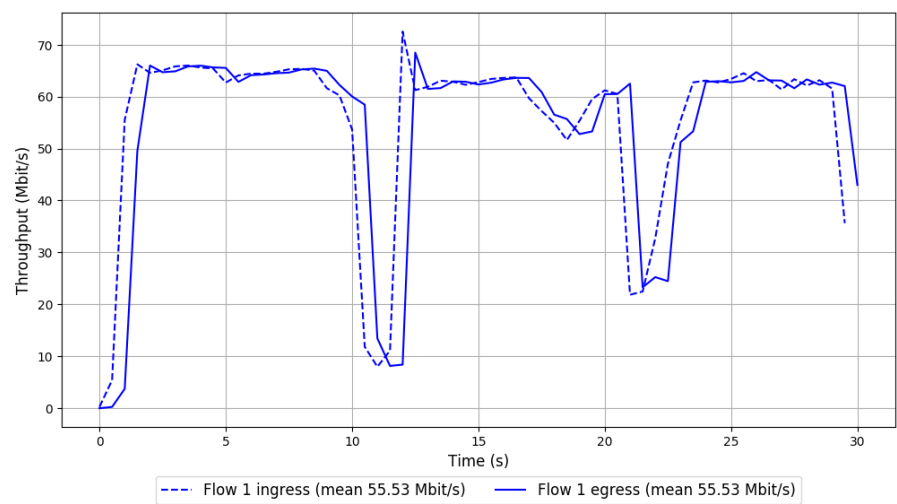


Run 7: Statistics of QUIC Cubic

Start at: 2018-06-19 07:52:08
End at: 2018-06-19 07:52:38
Local clock offset: -0.037 ms
Remote clock offset: -1.331 ms

Below is generated by plot.py at 2018-06-19 10:07:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 55.53 Mbit/s
95th percentile per-packet one-way delay: 62.185 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.53 Mbit/s
95th percentile per-packet one-way delay: 62.185 ms
Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-06-19 08:12:14

End at: 2018-06-19 08:12:44

Local clock offset: -0.037 ms

Remote clock offset: -0.135 ms

Below is generated by plot.py at 2018-06-19 10:07:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.88 Mbit/s

95th percentile per-packet one-way delay: 63.296 ms

Loss rate: 0.00%

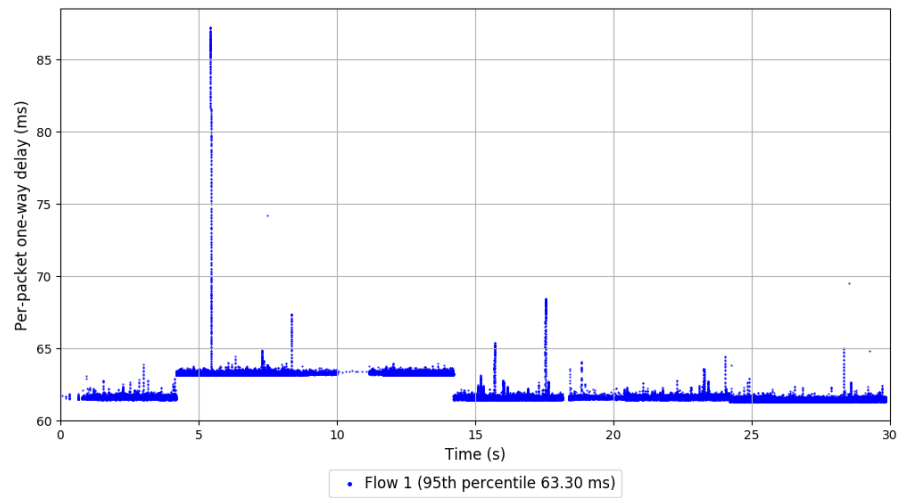
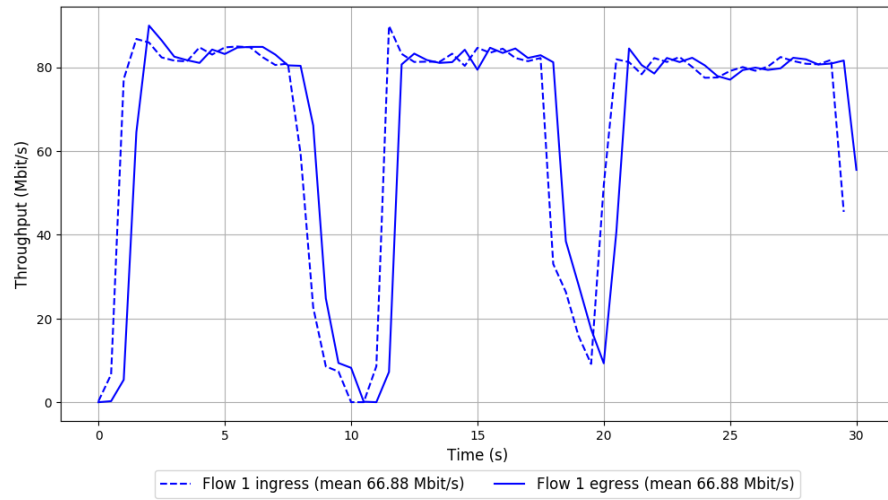
-- Flow 1:

Average throughput: 66.88 Mbit/s

95th percentile per-packet one-way delay: 63.296 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-06-19 08:32:26

End at: 2018-06-19 08:32:56

Local clock offset: 0.006 ms

Remote clock offset: -0.083 ms

Below is generated by plot.py at 2018-06-19 10:07:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.48 Mbit/s

95th percentile per-packet one-way delay: 63.521 ms

Loss rate: 0.00%

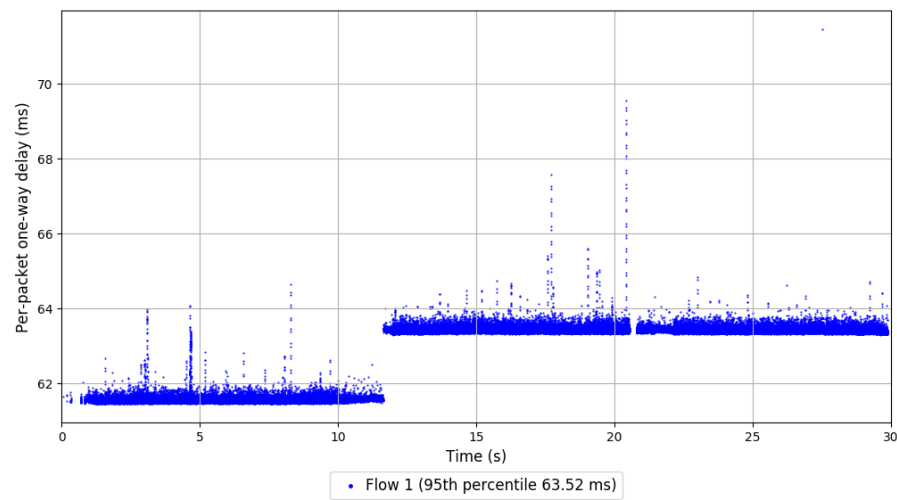
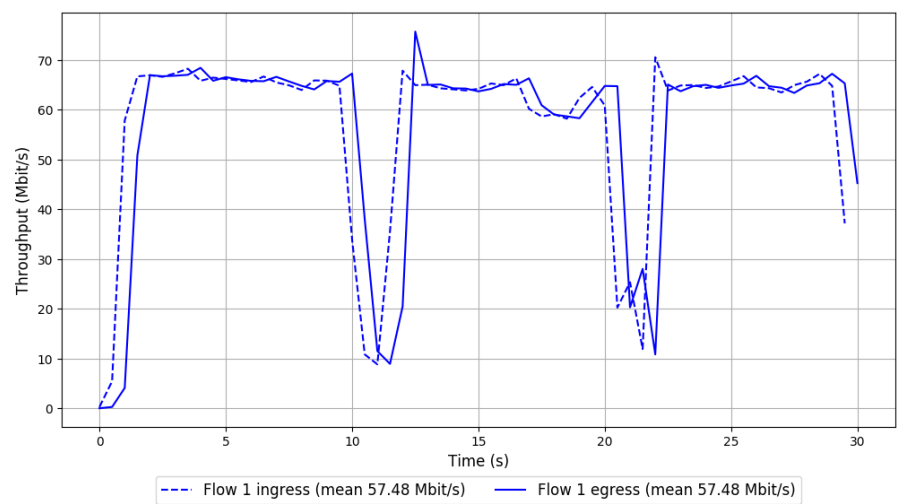
-- Flow 1:

Average throughput: 57.48 Mbit/s

95th percentile per-packet one-way delay: 63.521 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

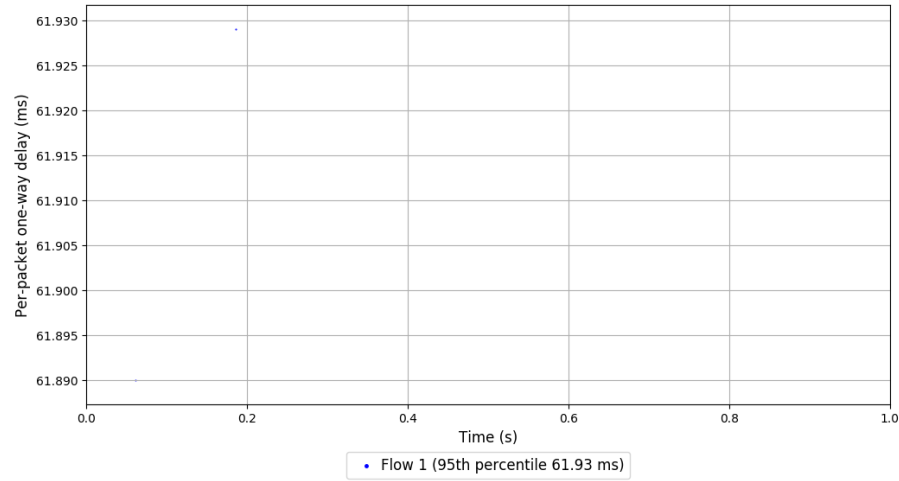
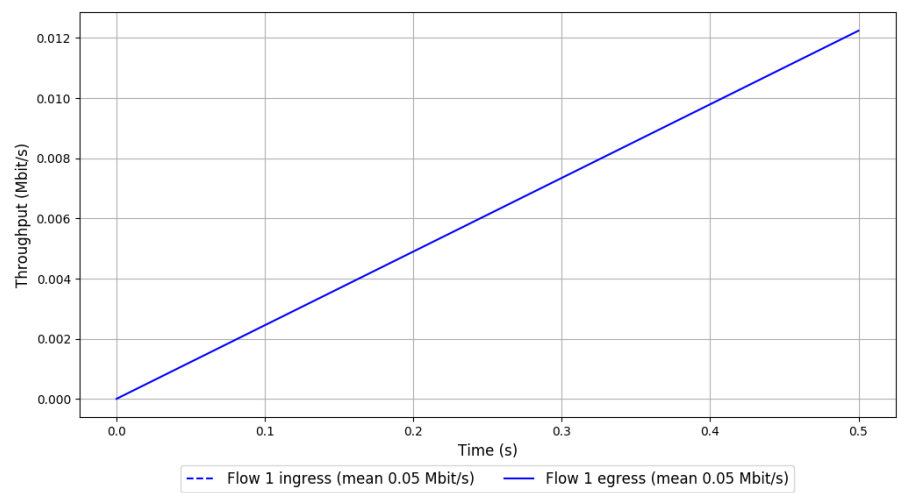
Start at: 2018-06-19 08:52:22

End at: 2018-06-19 08:52:52

Local clock offset: -0.044 ms

Remote clock offset: 0.007 ms

Run 10: Report of QUIC Cubic — Data Link

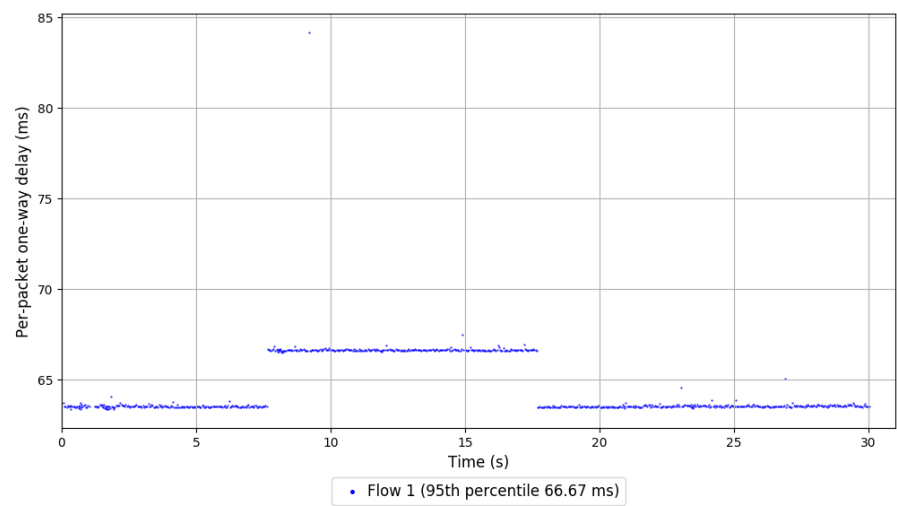
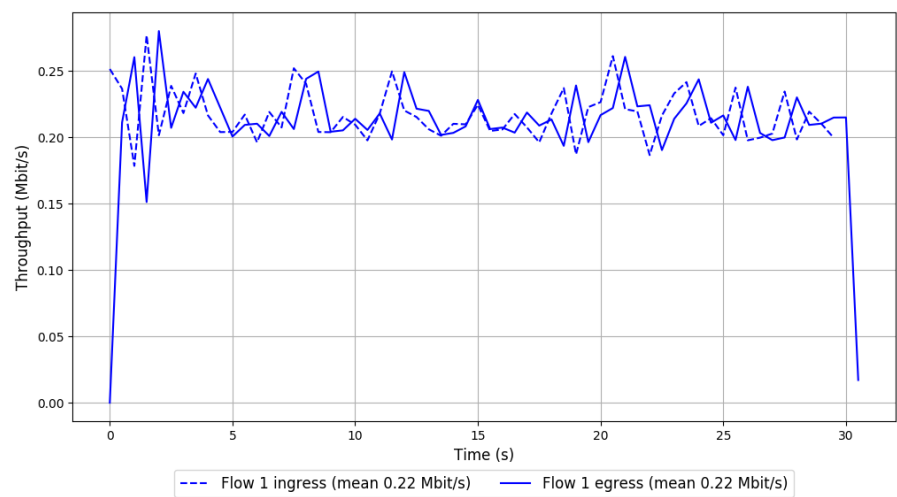


```
Run 1: Statistics of SCReAM

Start at: 2018-06-19 05:53:10
End at: 2018-06-19 05:53:40
Local clock offset: 0.012 ms
Remote clock offset: -0.094 ms

# Below is generated by plot.py at 2018-06-19 10:07:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.668 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.668 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

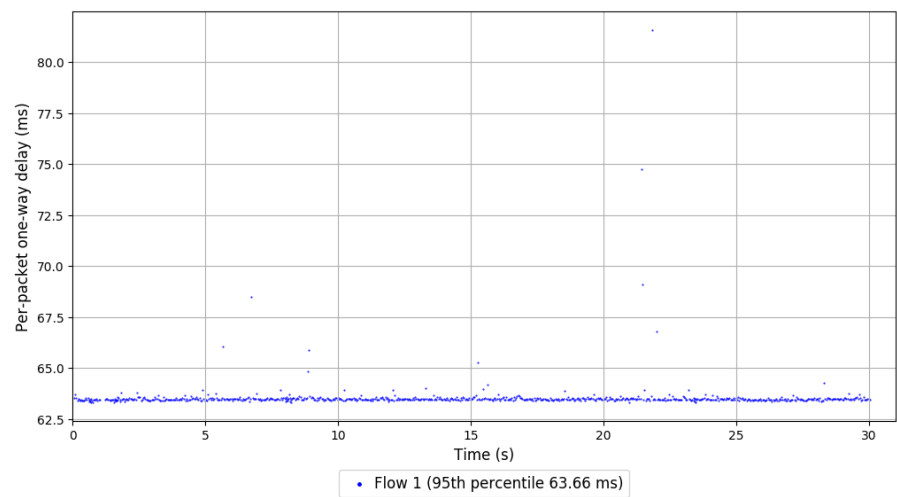
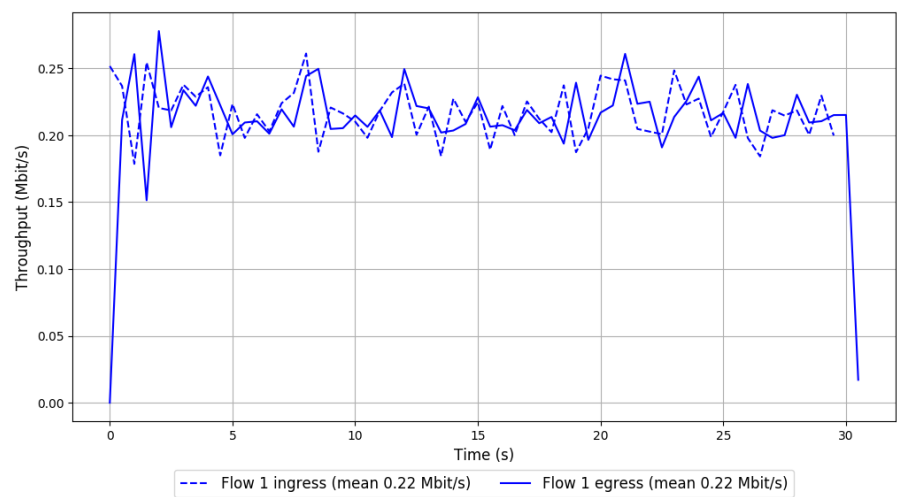


Run 2: Statistics of SCReAM

Start at: 2018-06-19 06:12:57
End at: 2018-06-19 06:13:27
Local clock offset: 0.013 ms
Remote clock offset: -0.145 ms

Below is generated by plot.py at 2018-06-19 10:07:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.658 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.658 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-06-19 06:32:31

End at: 2018-06-19 06:33:01

Local clock offset: 0.013 ms

Remote clock offset: 0.284 ms

Below is generated by plot.py at 2018-06-19 10:07:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.112 ms

Loss rate: 0.00%

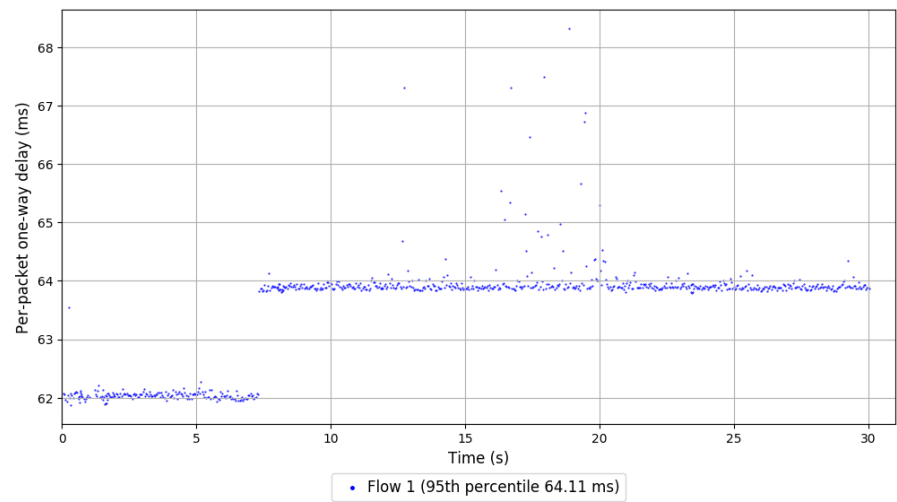
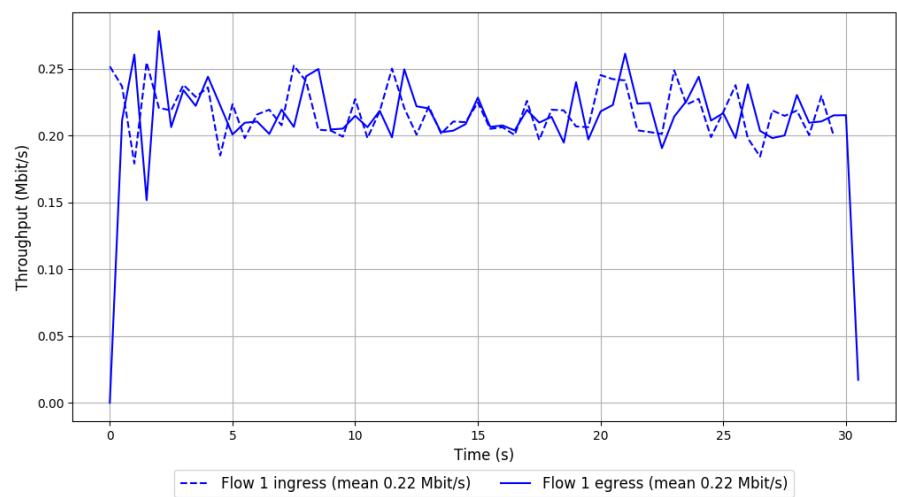
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.112 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

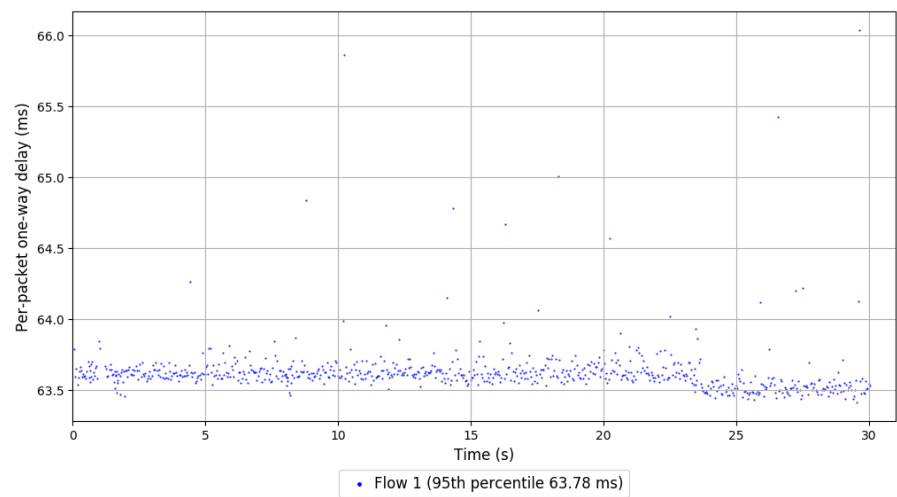
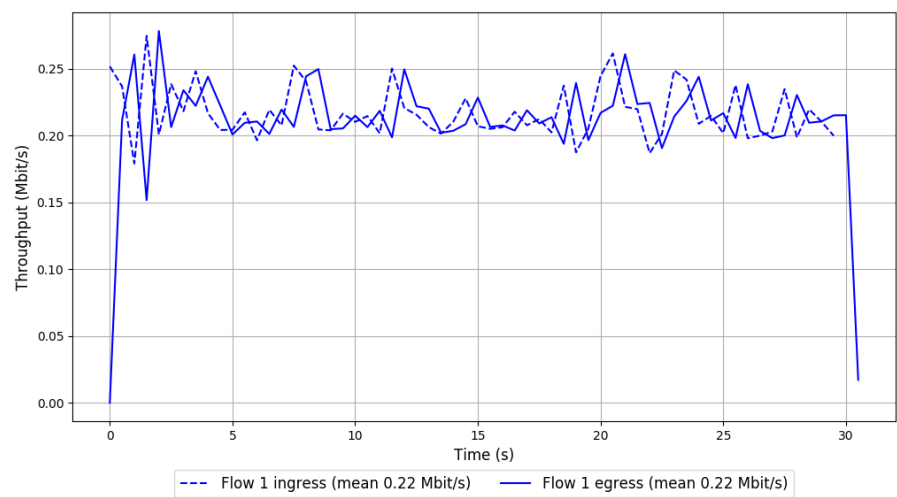


Run 4: Statistics of SCReAM

Start at: 2018-06-19 06:52:44
End at: 2018-06-19 06:53:14
Local clock offset: -0.099 ms
Remote clock offset: -0.047 ms

Below is generated by plot.py at 2018-06-19 10:07:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.780 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.780 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-06-19 07:12:56

End at: 2018-06-19 07:13:26

Local clock offset: -0.041 ms

Remote clock offset: -1.37 ms

Below is generated by plot.py at 2018-06-19 10:07:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 62.389 ms

Loss rate: 0.00%

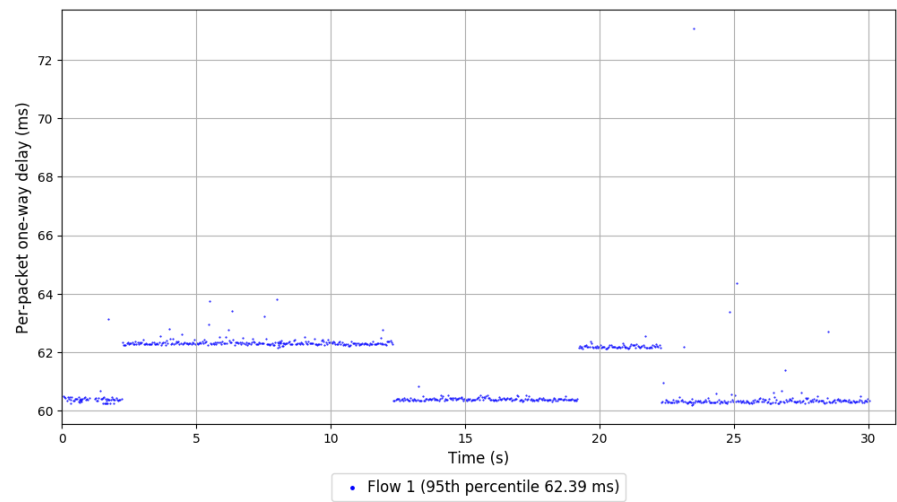
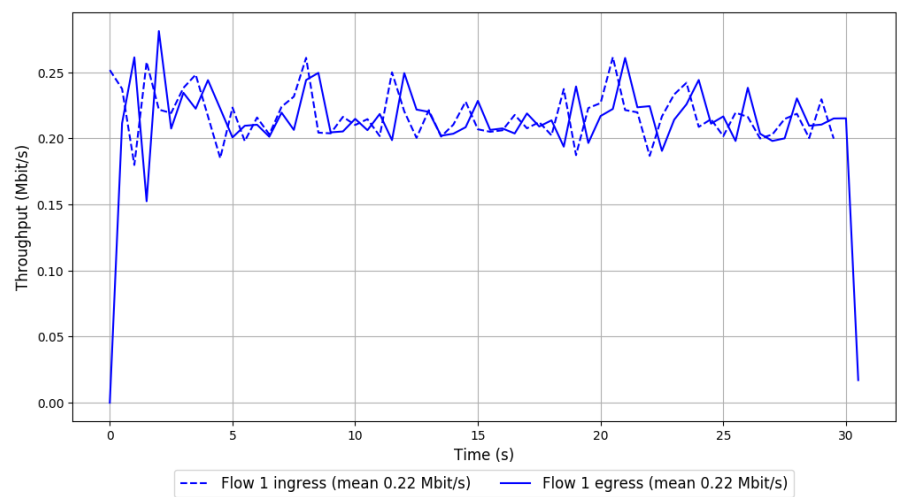
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 62.389 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

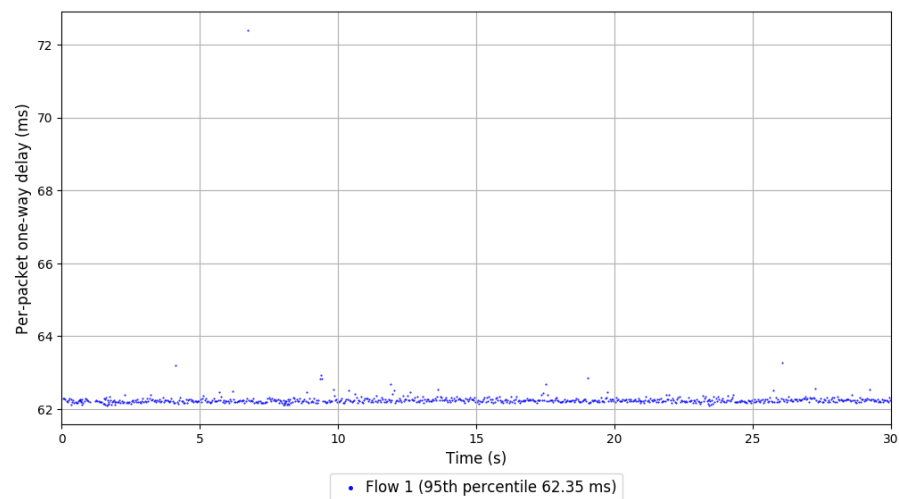
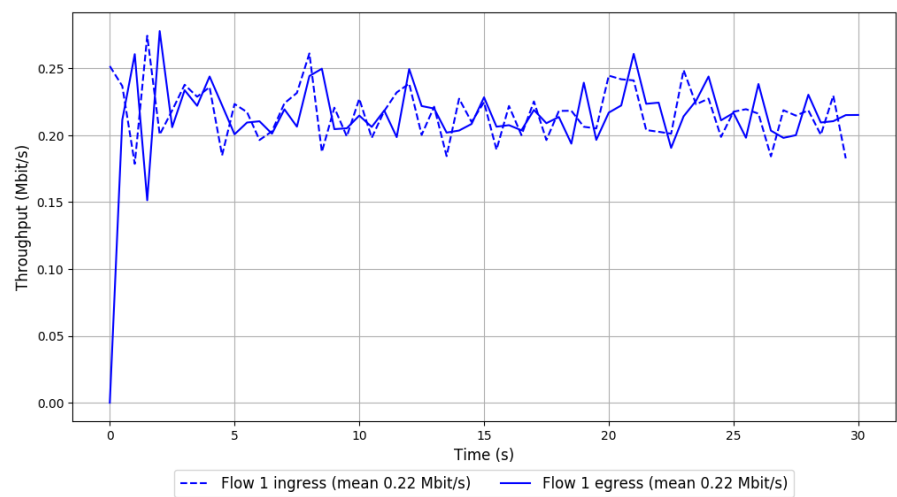


Run 6: Statistics of SCReAM

Start at: 2018-06-19 07:33:12
End at: 2018-06-19 07:33:42
Local clock offset: -0.0 ms
Remote clock offset: -1.319 ms

Below is generated by plot.py at 2018-06-19 10:07:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.351 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.351 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-06-19 07:53:17

End at: 2018-06-19 07:53:47

Local clock offset: -0.063 ms

Remote clock offset: -1.23 ms

Below is generated by plot.py at 2018-06-19 10:07:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 62.516 ms

Loss rate: 0.00%

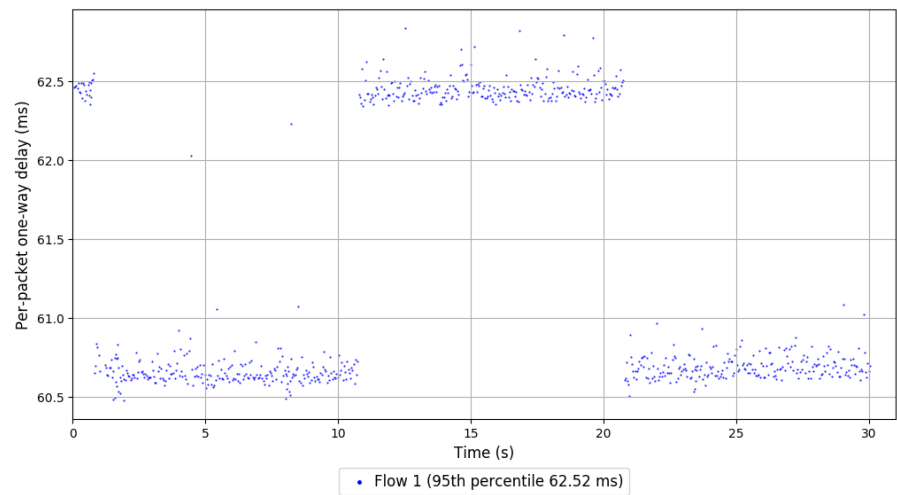
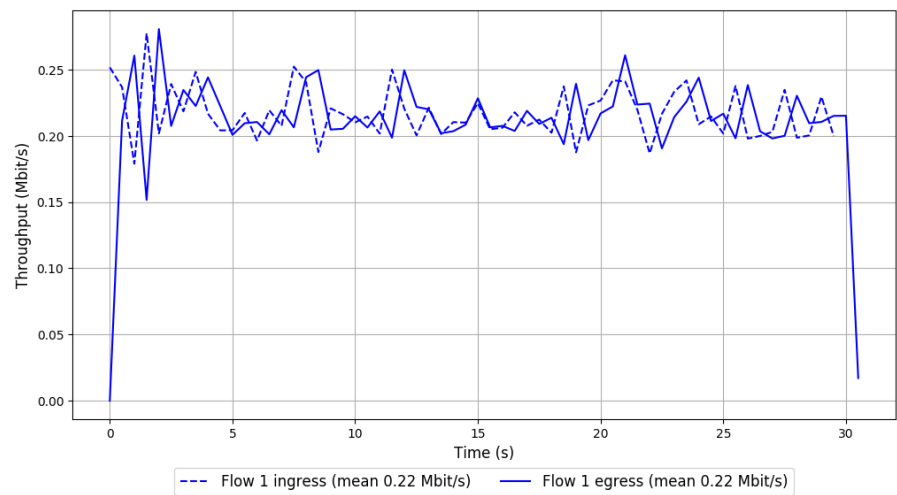
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 62.516 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

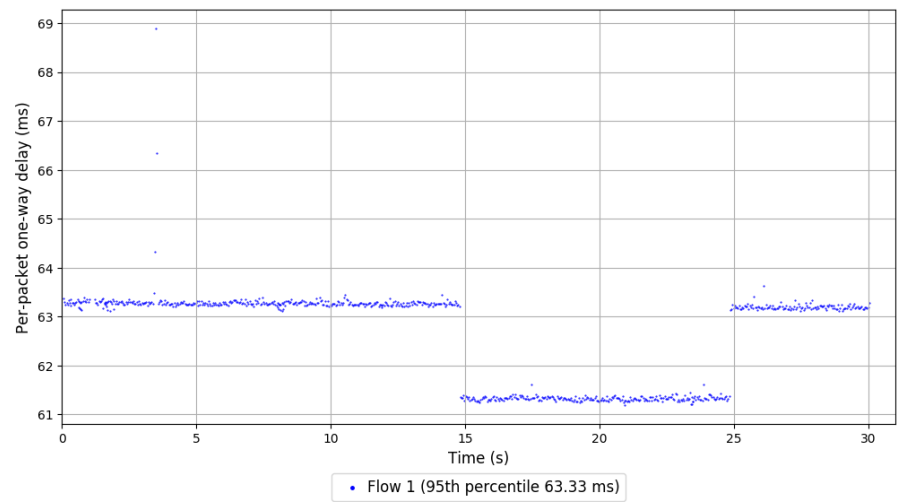
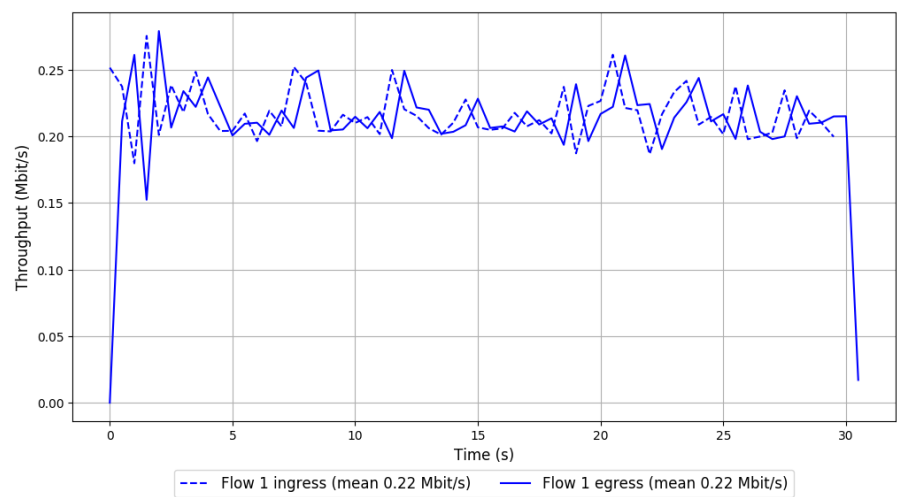


Run 8: Statistics of SCReAM

Start at: 2018-06-19 08:13:23
End at: 2018-06-19 08:13:53
Local clock offset: -0.035 ms
Remote clock offset: -0.347 ms

Below is generated by plot.py at 2018-06-19 10:07:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.331 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.331 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

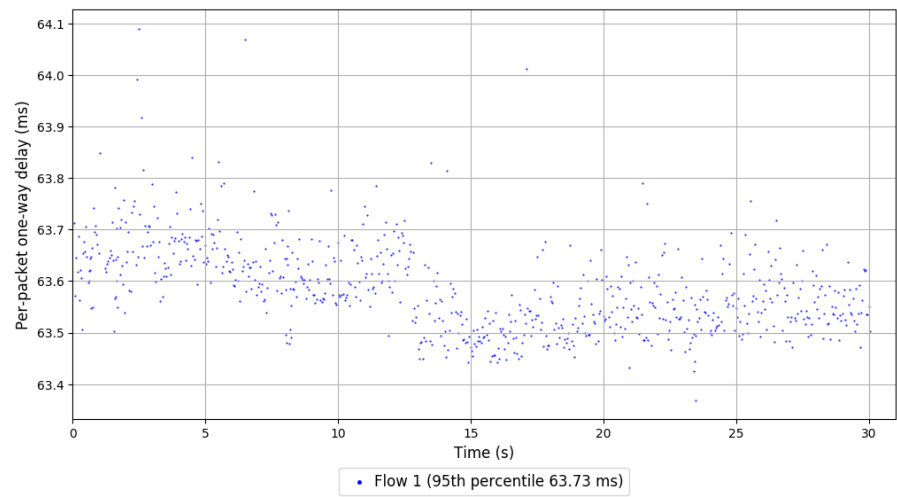
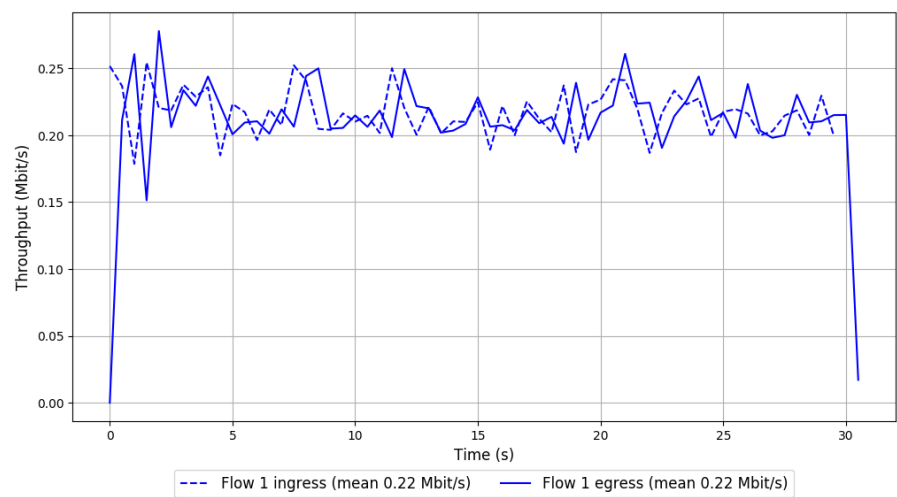


Run 9: Statistics of SCReAM

Start at: 2018-06-19 08:33:35
End at: 2018-06-19 08:34:05
Local clock offset: -0.016 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2018-06-19 10:07:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.728 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.728 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

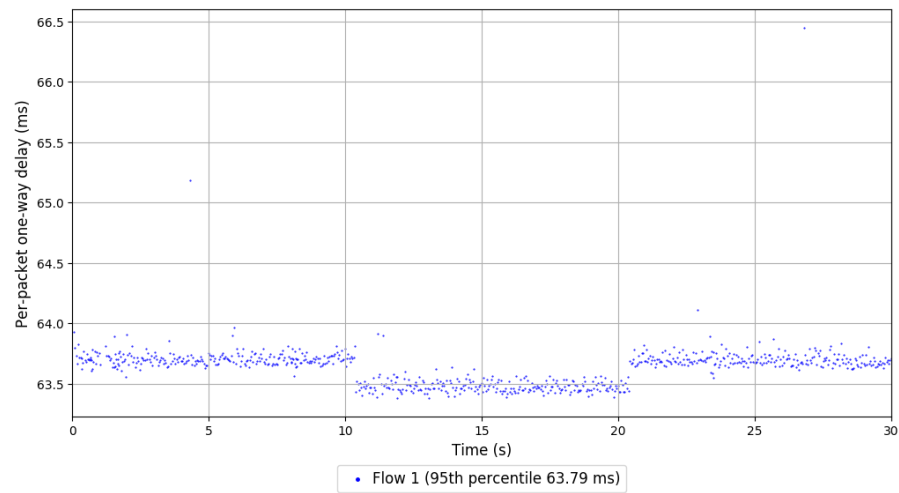
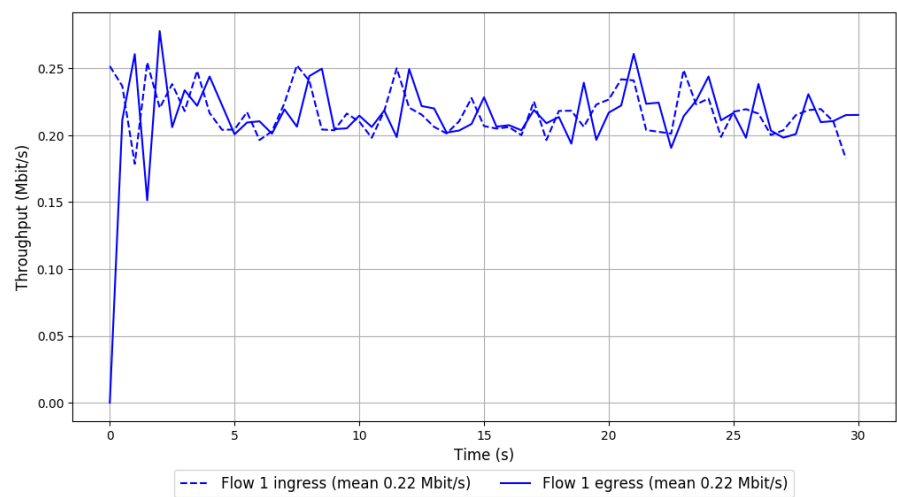


Run 10: Statistics of SCReAM

Start at: 2018-06-19 08:53:27
End at: 2018-06-19 08:53:57
Local clock offset: -0.055 ms
Remote clock offset: -0.043 ms

Below is generated by plot.py at 2018-06-19 10:07:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.788 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.788 ms
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-06-19 05:56:52

End at: 2018-06-19 05:57:22

Local clock offset: -0.013 ms

Remote clock offset: 1.127 ms

Below is generated by plot.py at 2018-06-19 10:07:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 68.091 ms

Loss rate: 0.00%

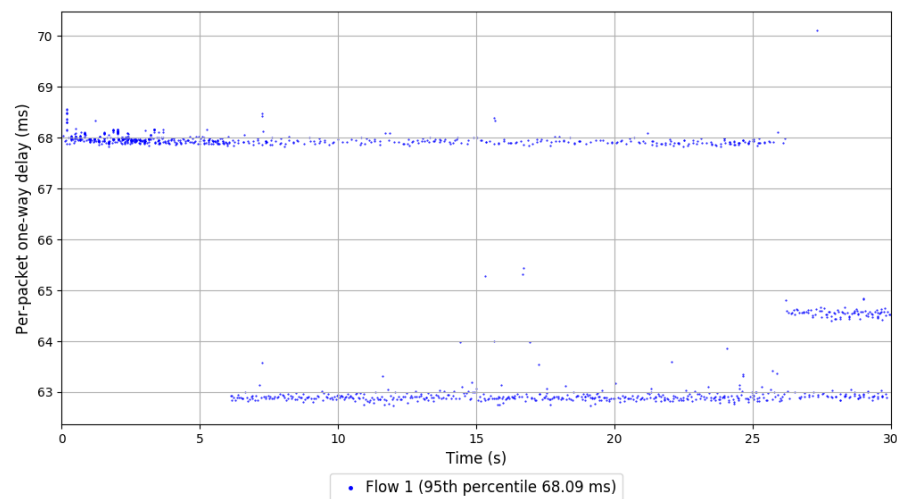
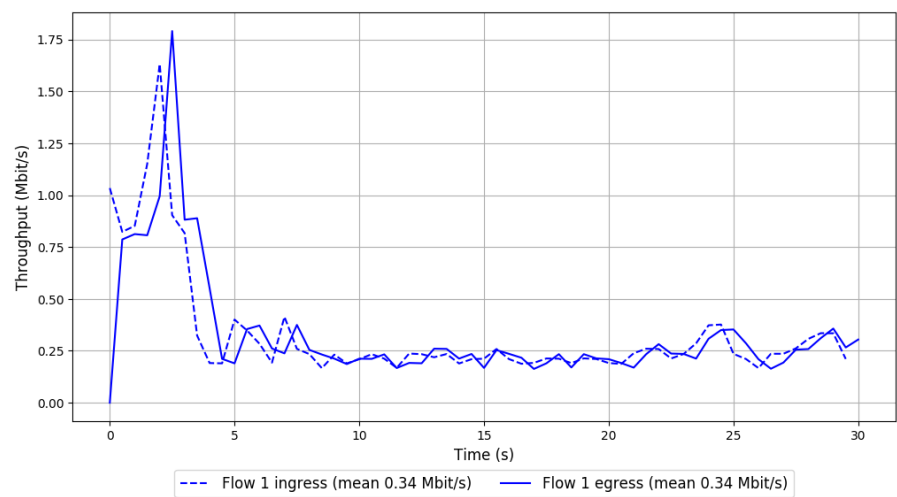
-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 68.091 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-06-19 06:16:20

End at: 2018-06-19 06:16:50

Local clock offset: 0.045 ms

Remote clock offset: 0.067 ms

Below is generated by plot.py at 2018-06-19 10:07:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.83 Mbit/s

95th percentile per-packet one-way delay: 63.635 ms

Loss rate: 0.00%

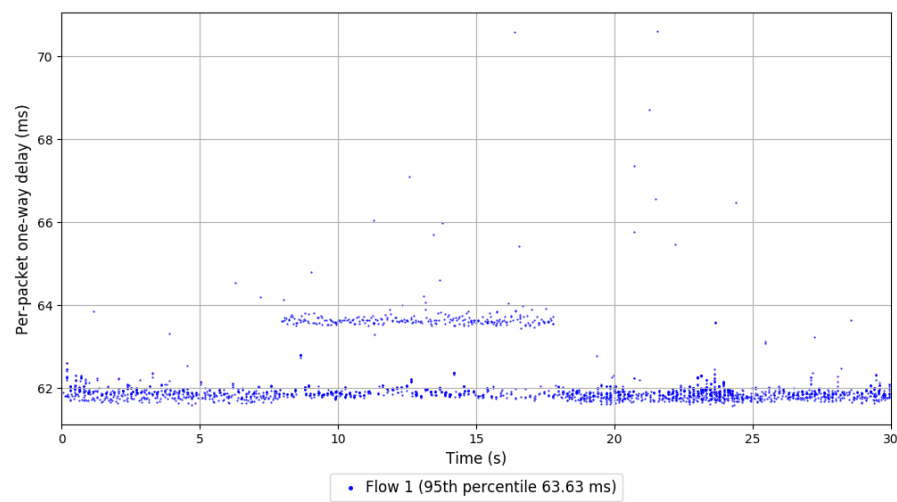
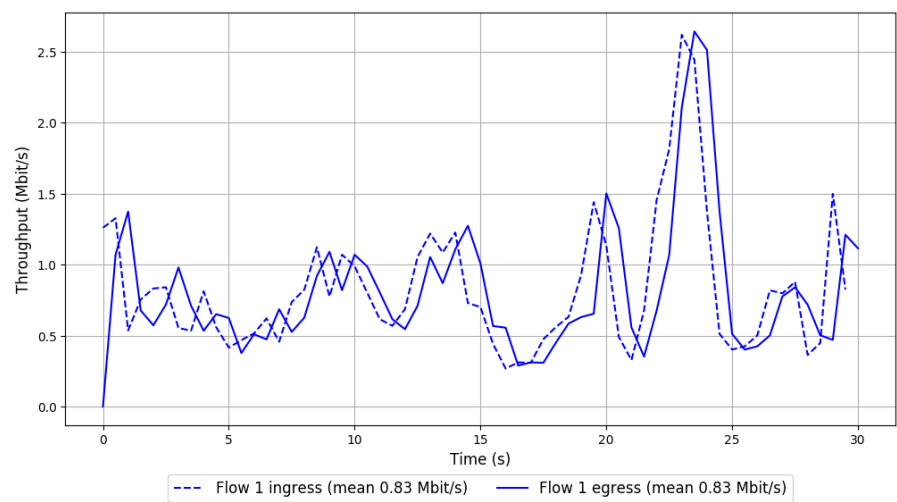
-- Flow 1:

Average throughput: 0.83 Mbit/s

95th percentile per-packet one-way delay: 63.635 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

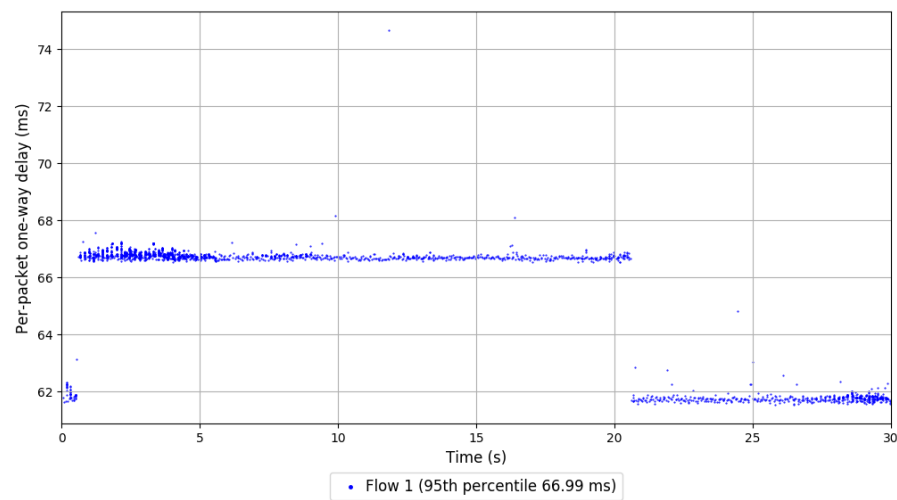
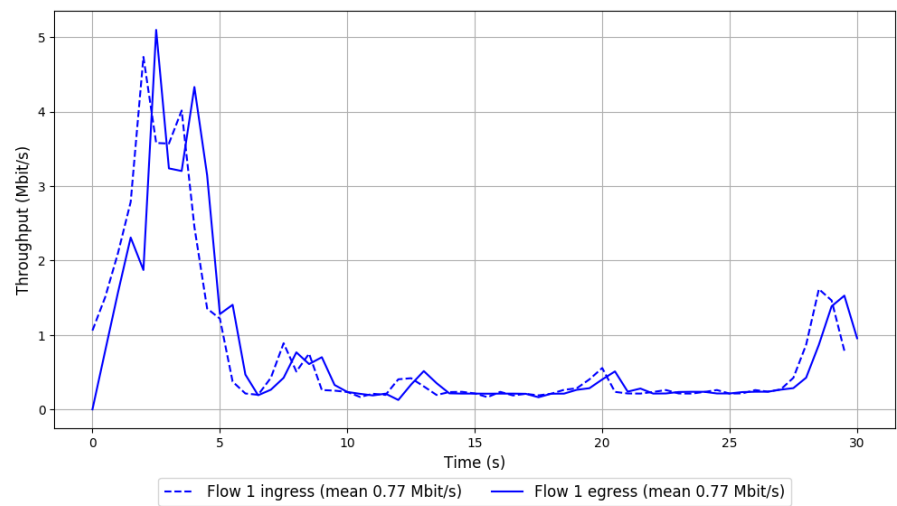


Run 3: Statistics of Sprout

Start at: 2018-06-19 06:36:07
End at: 2018-06-19 06:36:37
Local clock offset: -0.075 ms
Remote clock offset: -0.093 ms

Below is generated by plot.py at 2018-06-19 10:07:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.77 Mbit/s
95th percentile per-packet one-way delay: 66.988 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.77 Mbit/s
95th percentile per-packet one-way delay: 66.988 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-06-19 06:56:25

End at: 2018-06-19 06:56:55

Local clock offset: -0.133 ms

Remote clock offset: 1.2 ms

Below is generated by plot.py at 2018-06-19 10:07:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.80 Mbit/s

95th percentile per-packet one-way delay: 65.407 ms

Loss rate: 0.00%

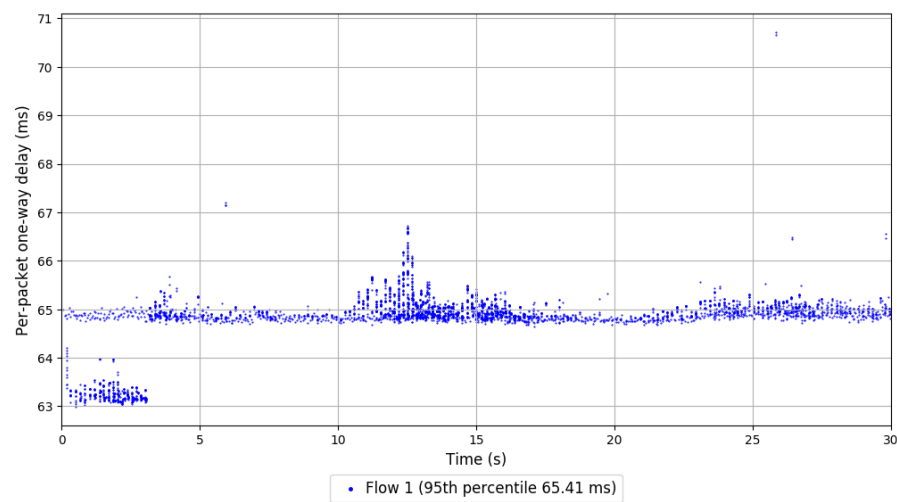
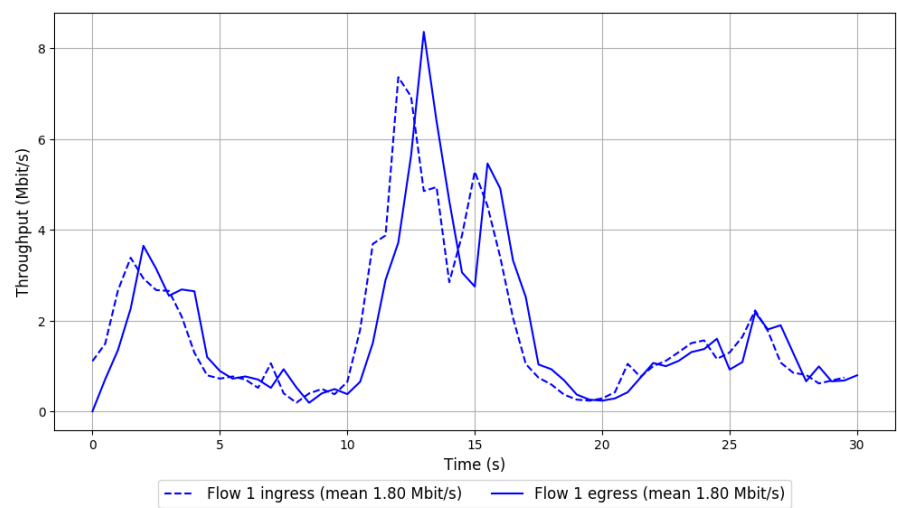
-- Flow 1:

Average throughput: 1.80 Mbit/s

95th percentile per-packet one-way delay: 65.407 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-06-19 07:16:39

End at: 2018-06-19 07:17:09

Local clock offset: -0.012 ms

Remote clock offset: 0.054 ms

Below is generated by plot.py at 2018-06-19 10:07:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 64.242 ms

Loss rate: 0.00%

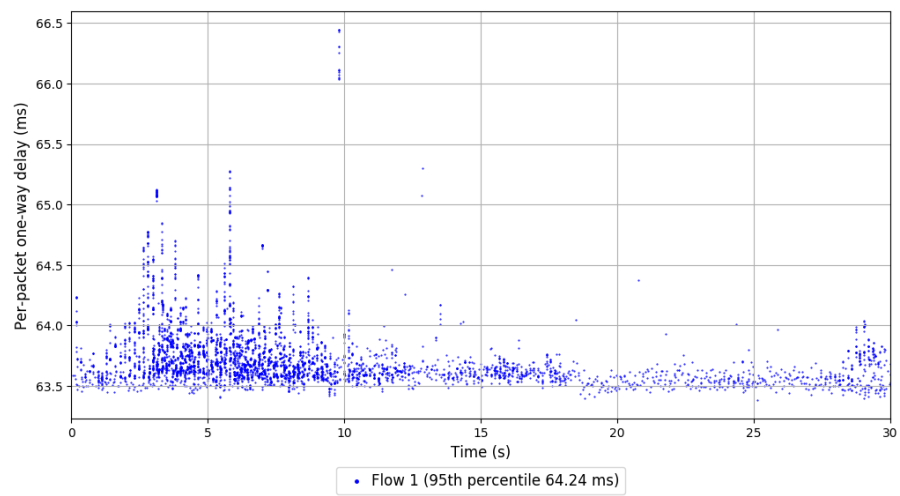
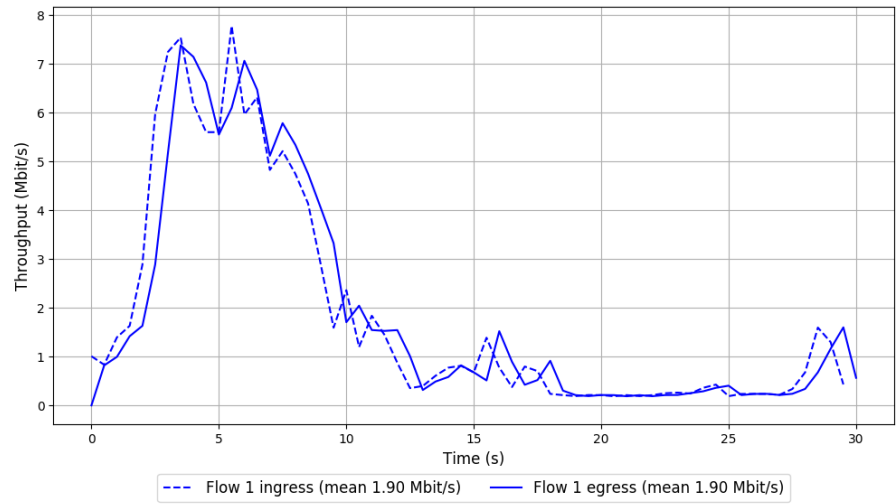
-- Flow 1:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 64.242 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-06-19 07:36:56

End at: 2018-06-19 07:37:26

Local clock offset: 0.035 ms

Remote clock offset: 0.017 ms

Below is generated by plot.py at 2018-06-19 10:07:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 63.934 ms

Loss rate: 0.00%

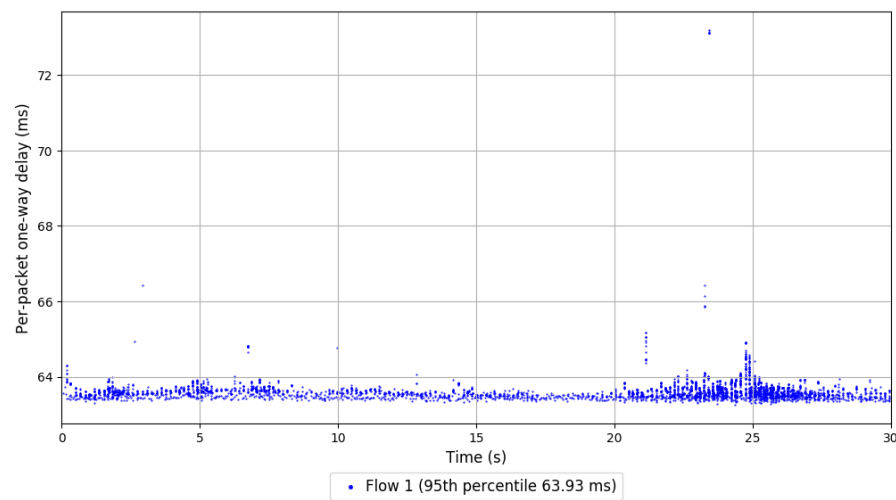
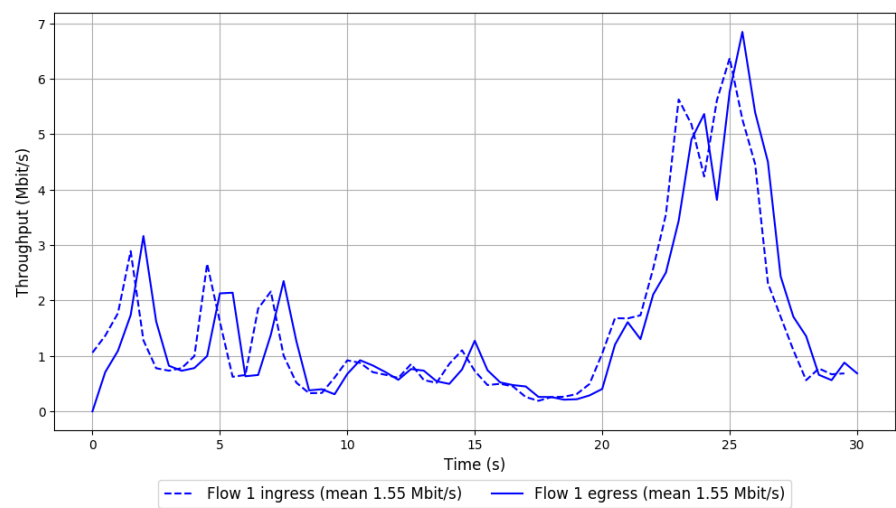
-- Flow 1:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 63.934 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

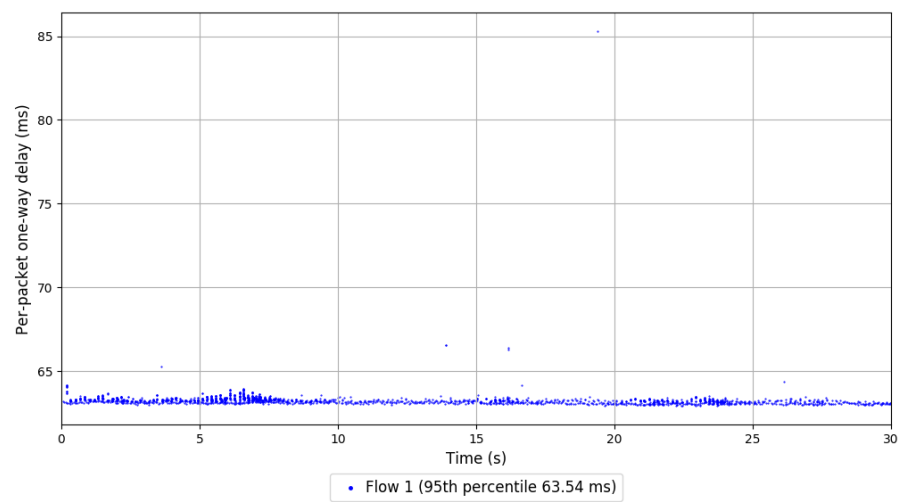
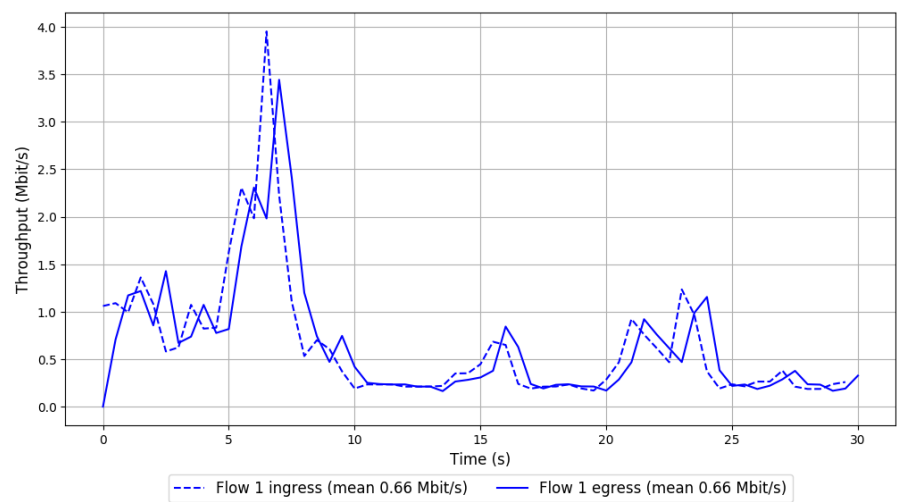


Run 7: Statistics of Sprout

Start at: 2018-06-19 07:57:00
End at: 2018-06-19 07:57:30
Local clock offset: -0.017 ms
Remote clock offset: -0.409 ms

Below is generated by plot.py at 2018-06-19 10:07:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 63.544 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 63.544 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-06-19 08:17:06

End at: 2018-06-19 08:17:36

Local clock offset: 0.007 ms

Remote clock offset: -0.2 ms

Below is generated by plot.py at 2018-06-19 10:07:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 63.648 ms

Loss rate: 0.00%

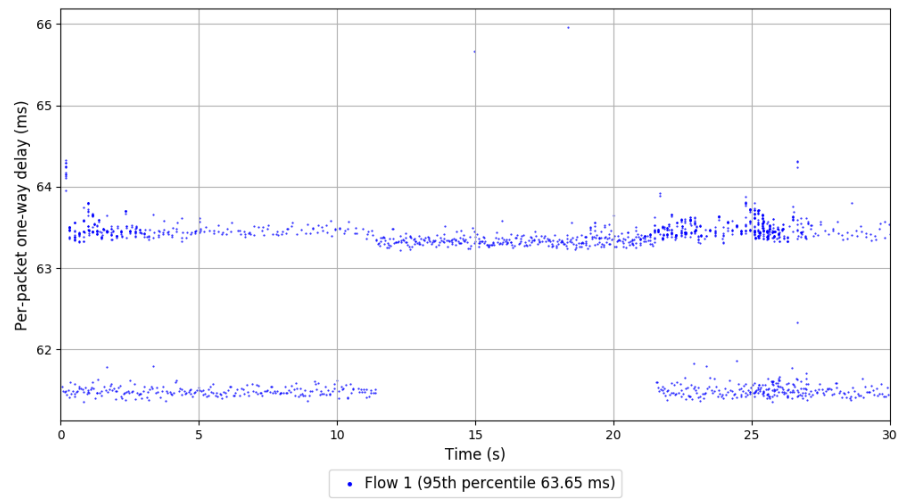
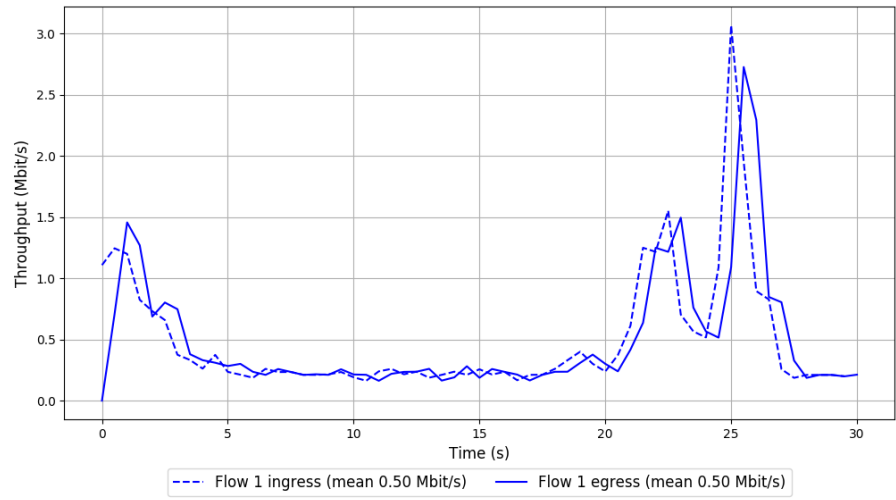
-- Flow 1:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 63.648 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

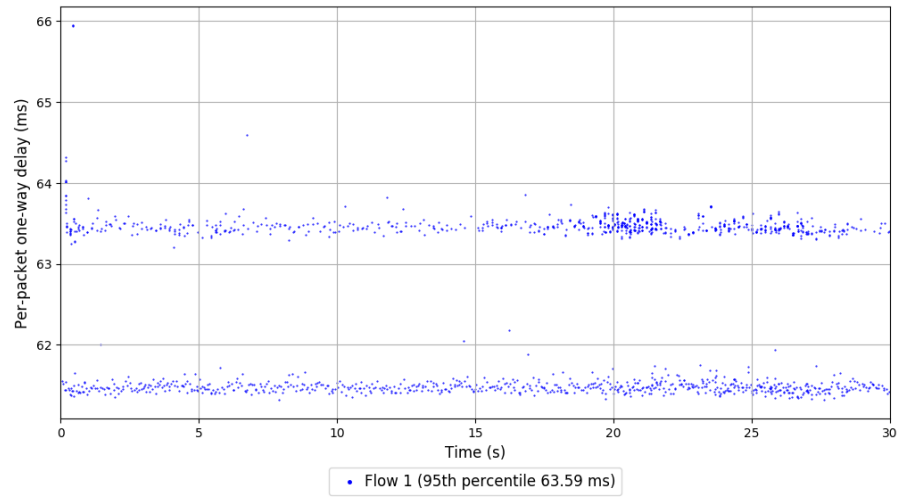
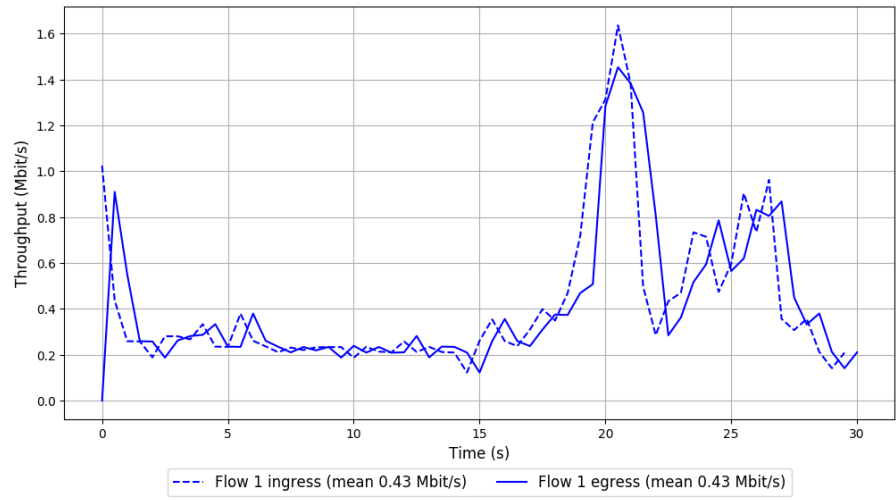


Run 9: Statistics of Sprout

Start at: 2018-06-19 08:37:15
End at: 2018-06-19 08:37:45
Local clock offset: 0.011 ms
Remote clock offset: -0.201 ms

Below is generated by plot.py at 2018-06-19 10:07:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.591 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.591 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

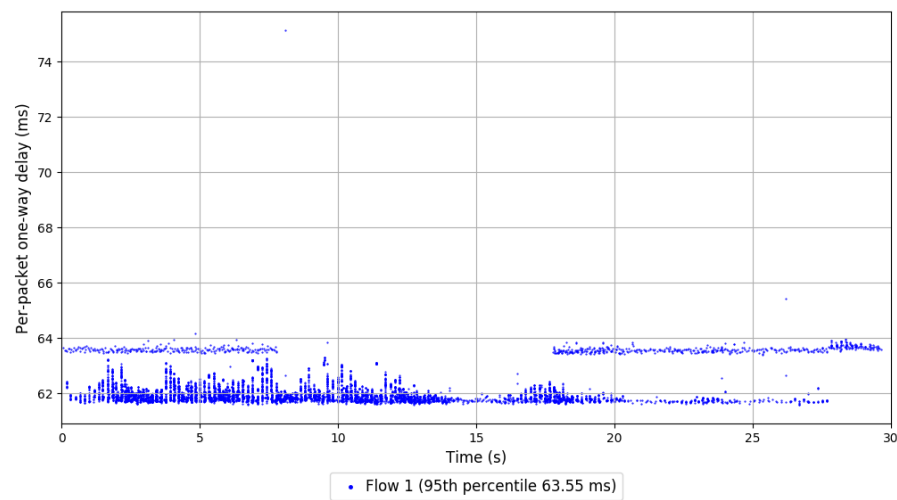
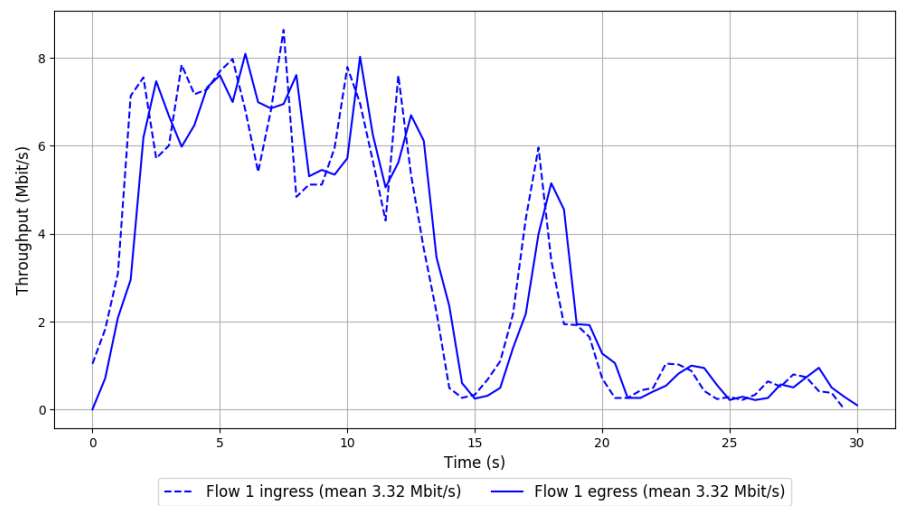


Run 10: Statistics of Sprout

Start at: 2018-06-19 08:57:10
End at: 2018-06-19 08:57:40
Local clock offset: -0.119 ms
Remote clock offset: -0.051 ms

Below is generated by plot.py at 2018-06-19 10:07:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.32 Mbit/s
95th percentile per-packet one-way delay: 63.554 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.32 Mbit/s
95th percentile per-packet one-way delay: 63.554 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

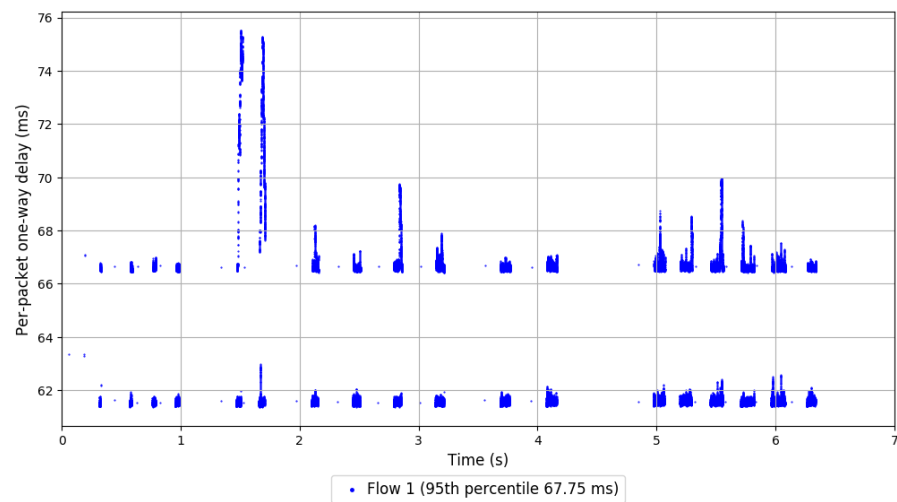
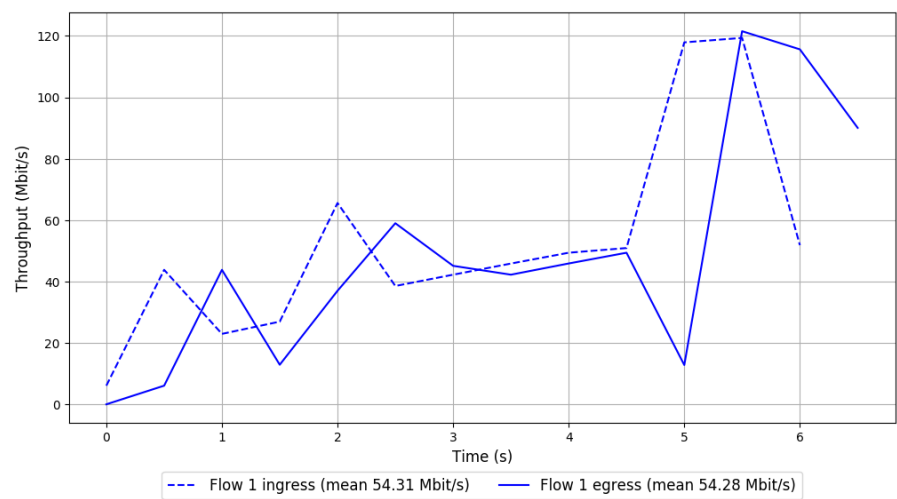
Start at: 2018-06-19 05:44:38

End at: 2018-06-19 05:45:08

Local clock offset: 0.047 ms

Remote clock offset: -0.057 ms

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-06-19 06:04:26

End at: 2018-06-19 06:04:56

Local clock offset: 0.088 ms

Remote clock offset: 0.012 ms

Below is generated by plot.py at 2018-06-19 10:07:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.19 Mbit/s

95th percentile per-packet one-way delay: 66.707 ms

Loss rate: 0.00%

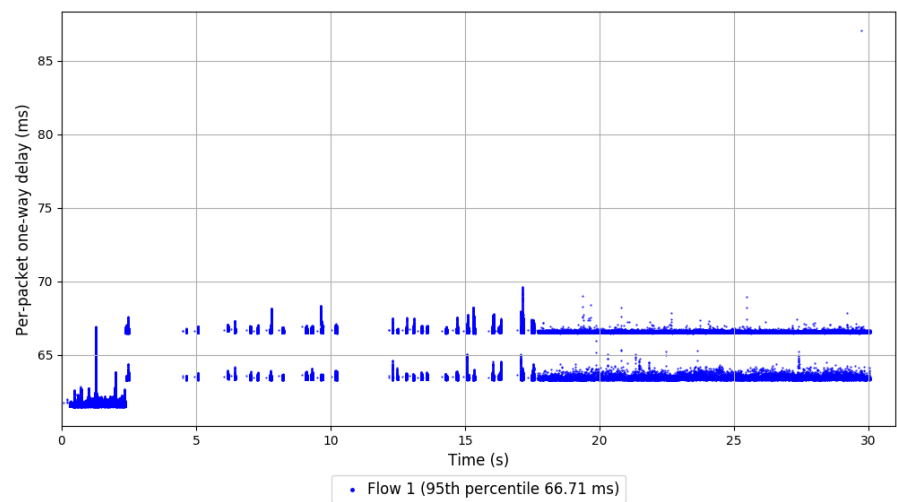
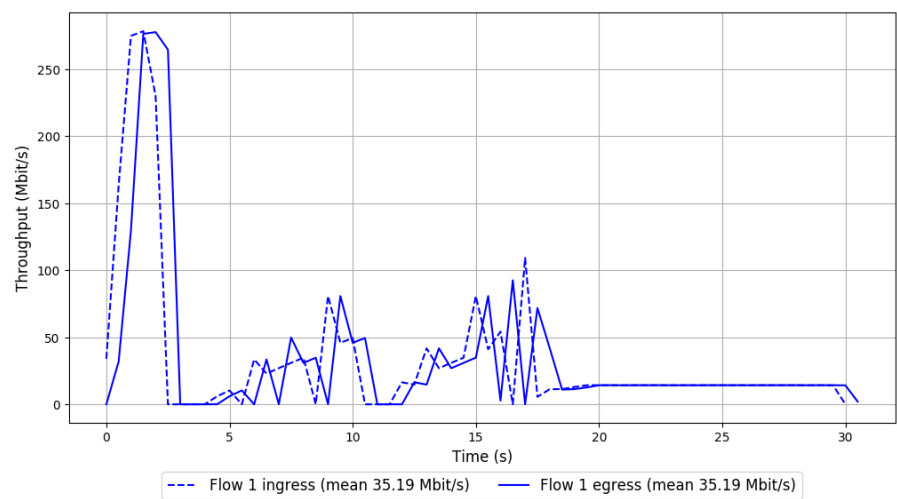
-- Flow 1:

Average throughput: 35.19 Mbit/s

95th percentile per-packet one-way delay: 66.707 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

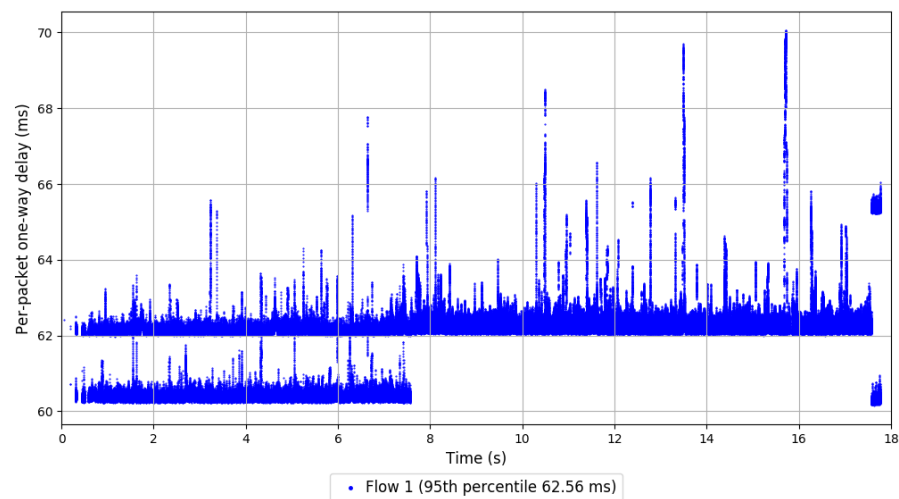
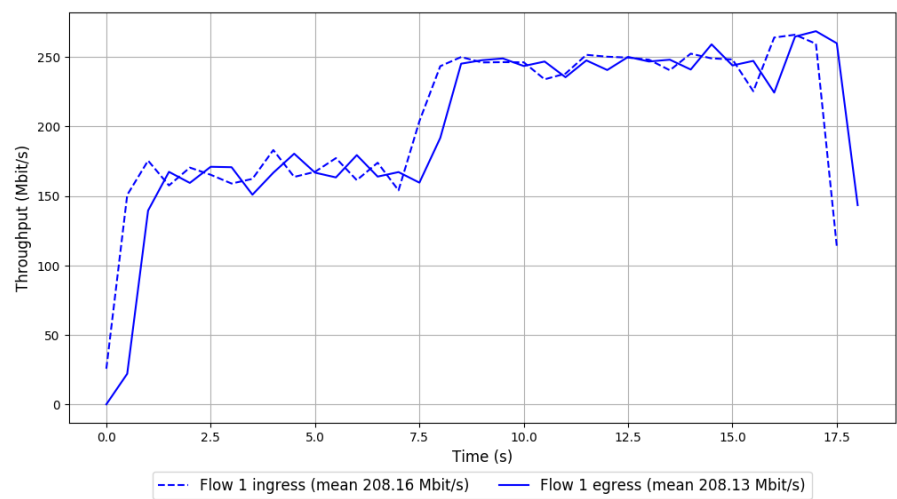
Start at: 2018-06-19 06:23:50

End at: 2018-06-19 06:24:20

Local clock offset: 0.083 ms

Remote clock offset: -1.255 ms

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-06-19 06:43:44

End at: 2018-06-19 06:44:14

Local clock offset: -0.07 ms

Remote clock offset: -1.285 ms

Below is generated by plot.py at 2018-06-19 10:12:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 233.17 Mbit/s

95th percentile per-packet one-way delay: 62.632 ms

Loss rate: 0.00%

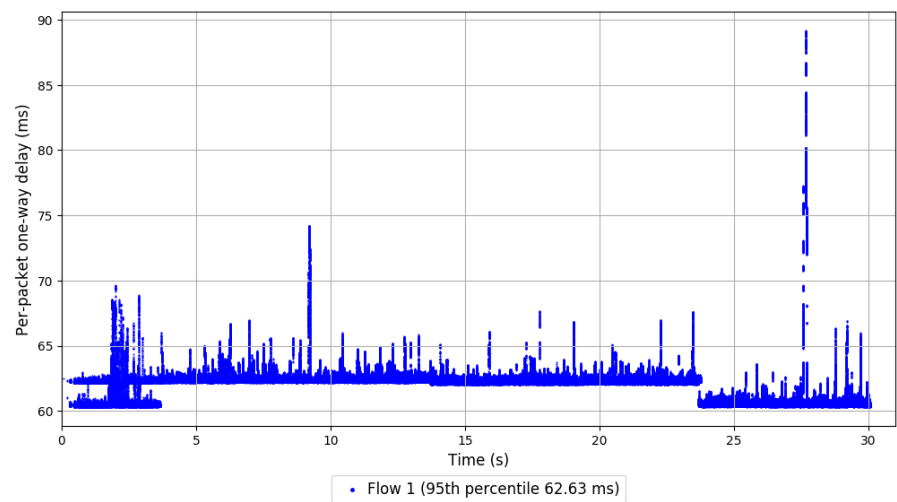
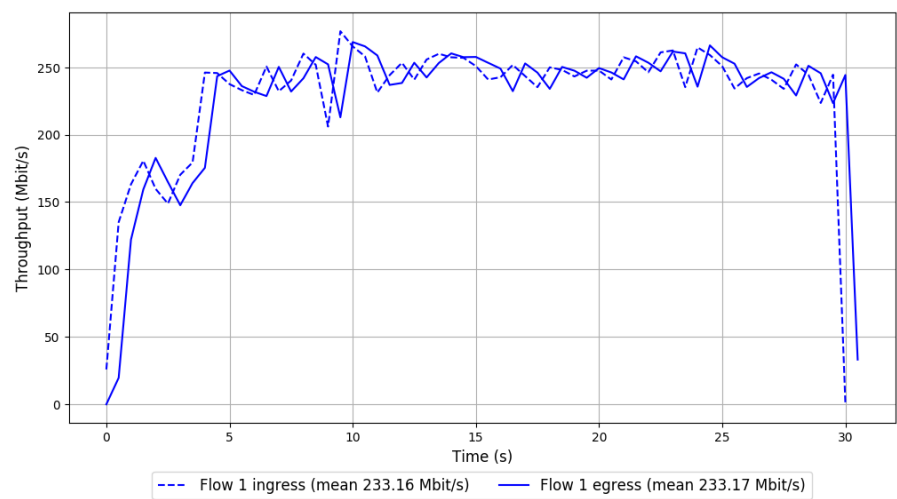
-- Flow 1:

Average throughput: 233.17 Mbit/s

95th percentile per-packet one-way delay: 62.632 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-06-19 07:04:01

End at: 2018-06-19 07:04:31

Local clock offset: -0.101 ms

Remote clock offset: 1.188 ms

Below is generated by plot.py at 2018-06-19 10:12:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.49 Mbit/s

95th percentile per-packet one-way delay: 64.915 ms

Loss rate: 0.00%

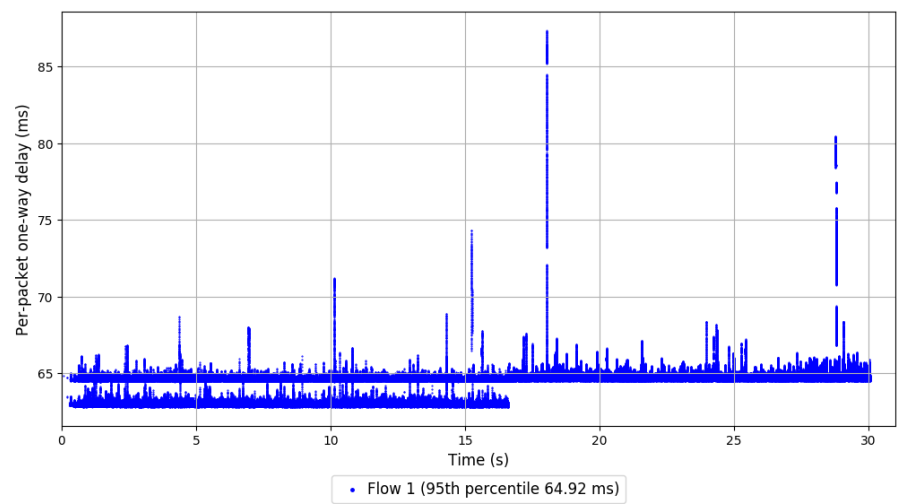
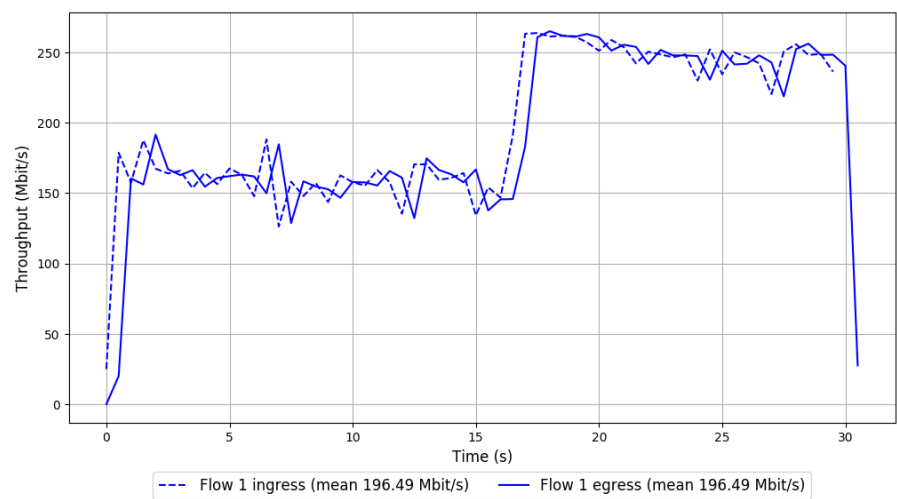
-- Flow 1:

Average throughput: 196.49 Mbit/s

95th percentile per-packet one-way delay: 64.915 ms

Loss rate: 0.00%

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

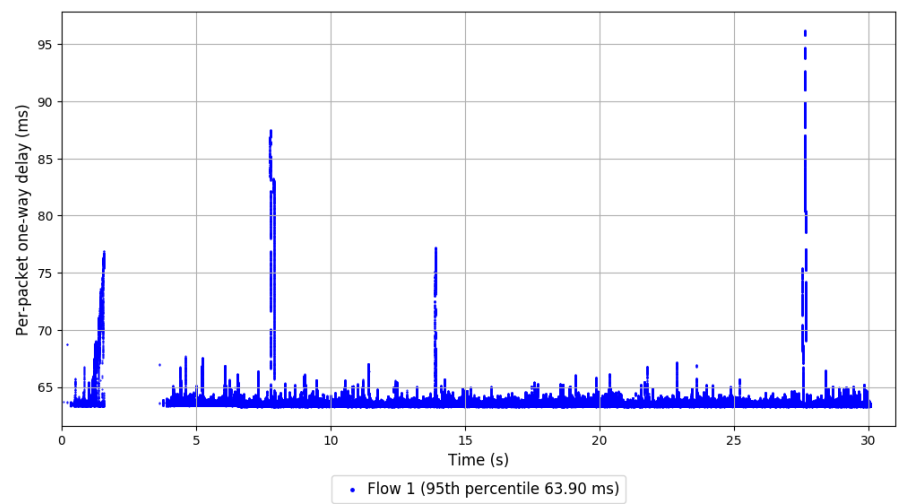
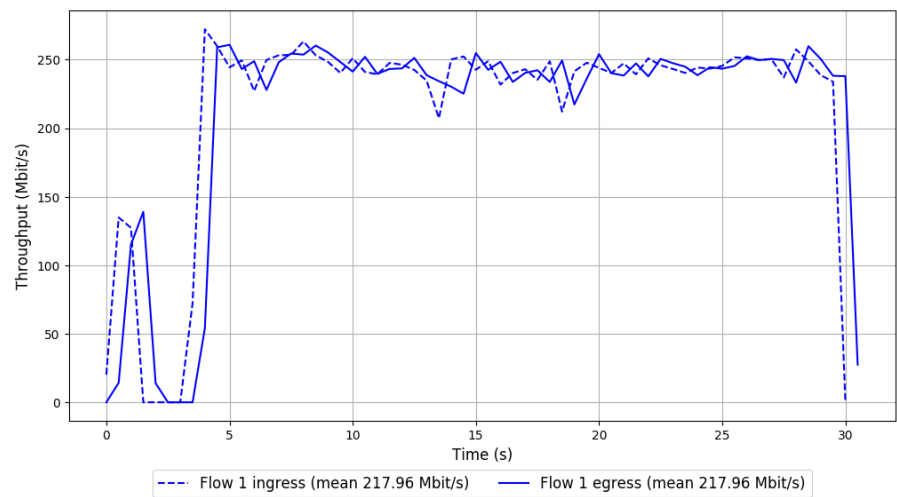


Run 6: Statistics of TaoVA-100x

Start at: 2018-06-19 07:24:11
End at: 2018-06-19 07:24:41
Local clock offset: -0.014 ms
Remote clock offset: -0.017 ms

Below is generated by plot.py at 2018-06-19 10:12:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 217.96 Mbit/s
95th percentile per-packet one-way delay: 63.904 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 217.96 Mbit/s
95th percentile per-packet one-way delay: 63.904 ms
Loss rate: 0.00%

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

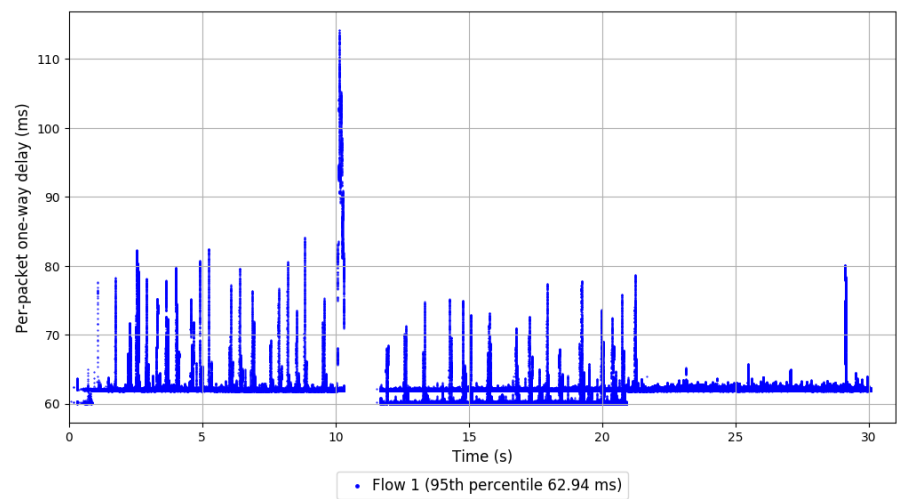
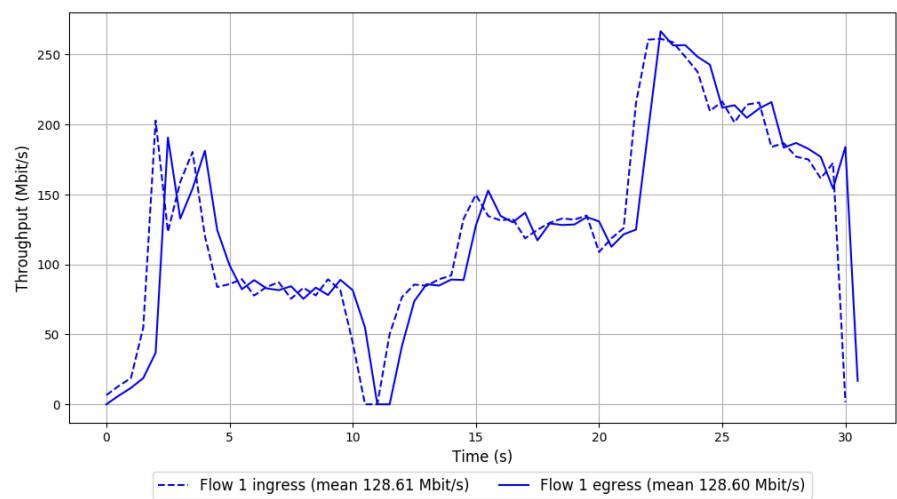


Run 7: Statistics of TaoVA-100x

Start at: 2018-06-19 07:44:27
End at: 2018-06-19 07:44:57
Local clock offset: -0.003 ms
Remote clock offset: -1.486 ms

Below is generated by plot.py at 2018-06-19 10:12:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 128.60 Mbit/s
95th percentile per-packet one-way delay: 62.935 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 128.60 Mbit/s
95th percentile per-packet one-way delay: 62.935 ms
Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-06-19 08:04:32

End at: 2018-06-19 08:05:02

Local clock offset: -0.06 ms

Remote clock offset: 0.943 ms

Below is generated by plot.py at 2018-06-19 10:12:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.84 Mbit/s

95th percentile per-packet one-way delay: 64.681 ms

Loss rate: 0.00%

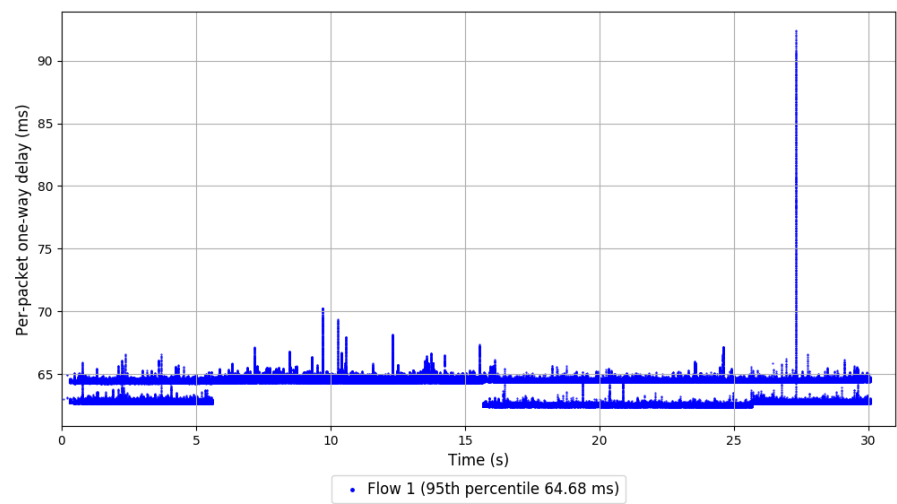
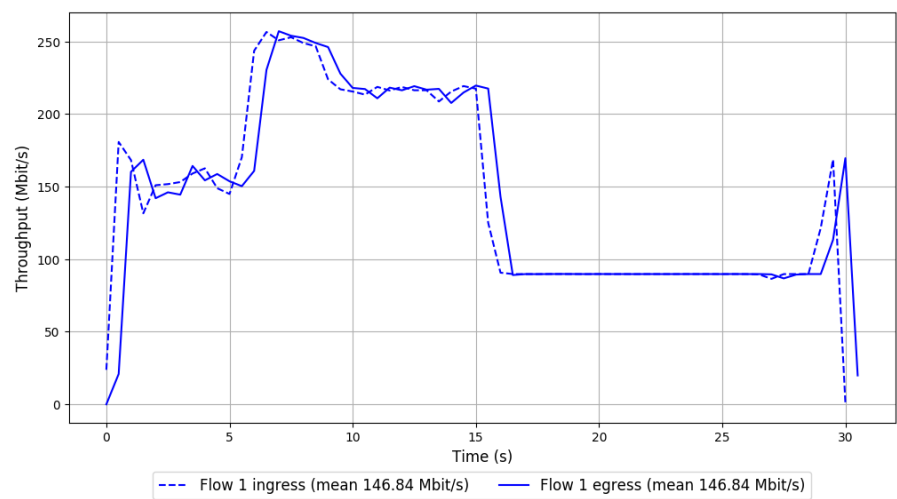
-- Flow 1:

Average throughput: 146.84 Mbit/s

95th percentile per-packet one-way delay: 64.681 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-06-19 08:24:44

End at: 2018-06-19 08:25:14

Local clock offset: -0.015 ms

Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-06-19 10:15:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 238.28 Mbit/s

95th percentile per-packet one-way delay: 63.751 ms

Loss rate: 0.00%

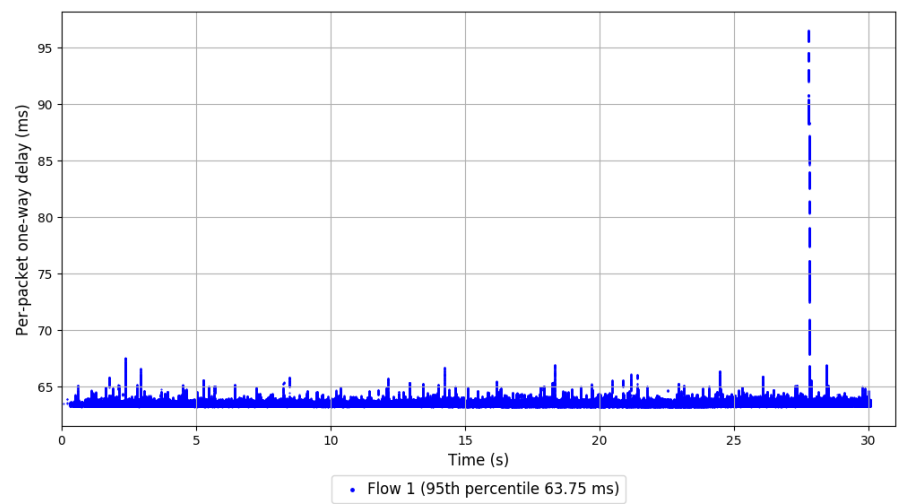
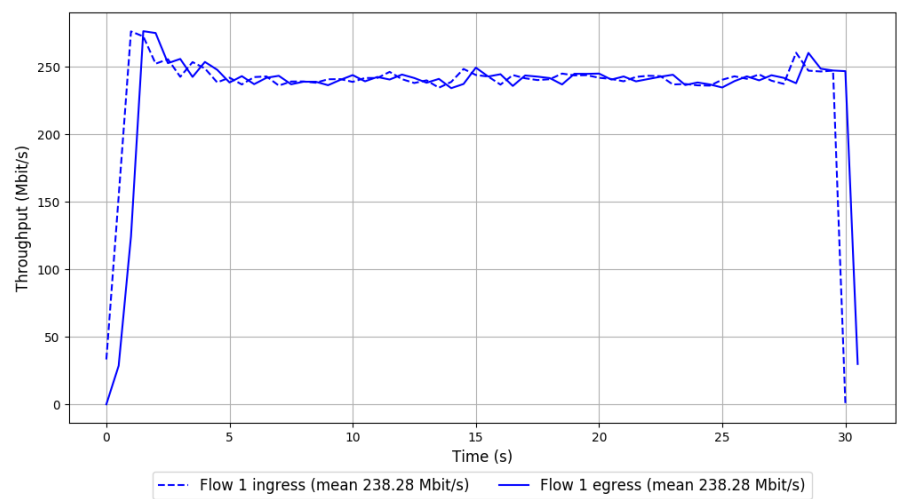
-- Flow 1:

Average throughput: 238.28 Mbit/s

95th percentile per-packet one-way delay: 63.751 ms

Loss rate: 0.00%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-06-19 08:44:30

End at: 2018-06-19 08:45:00

Local clock offset: -0.002 ms

Remote clock offset: 0.11 ms

Below is generated by plot.py at 2018-06-19 10:15:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.72 Mbit/s

95th percentile per-packet one-way delay: 63.987 ms

Loss rate: 0.00%

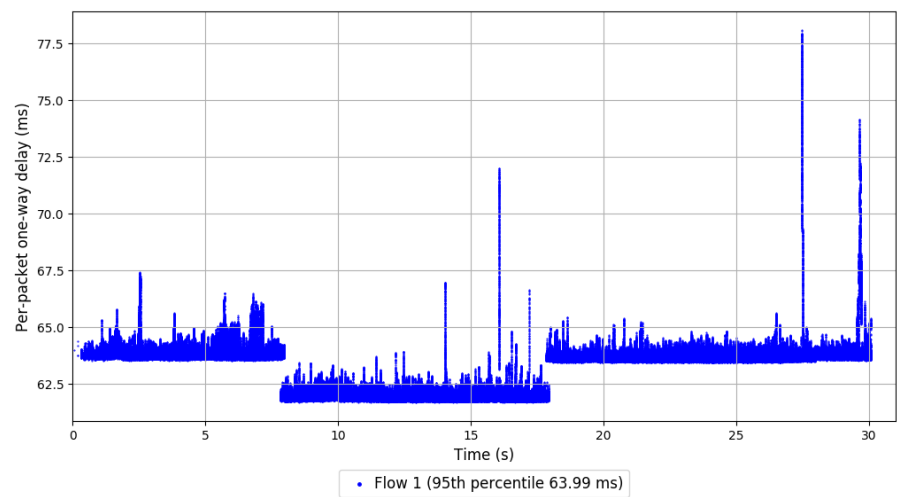
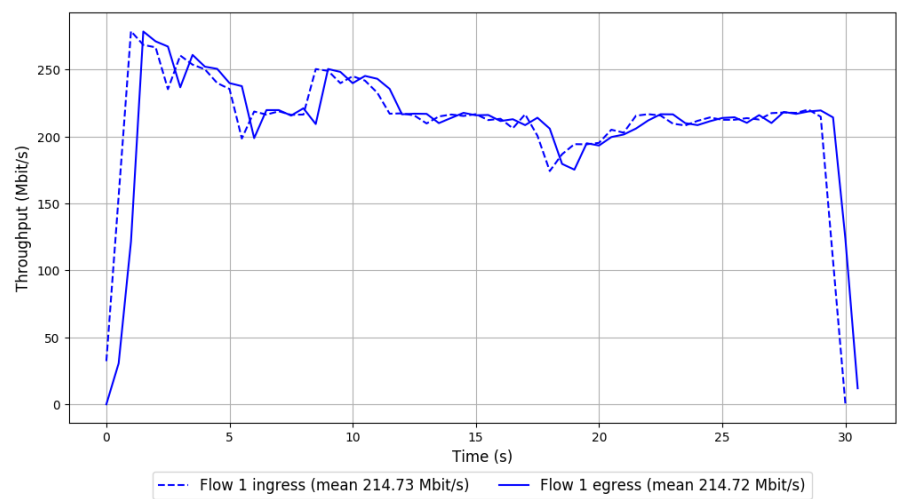
-- Flow 1:

Average throughput: 214.72 Mbit/s

95th percentile per-packet one-way delay: 63.987 ms

Loss rate: 0.00%

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

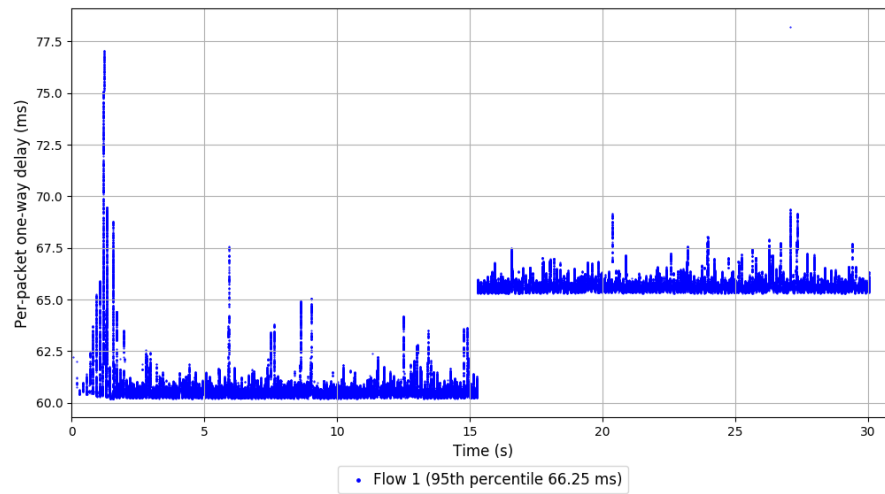
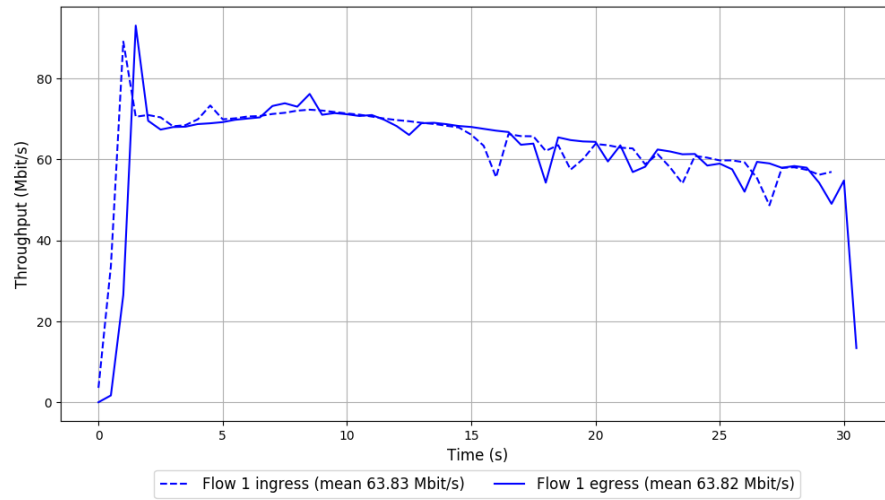


Run 1: Statistics of TCP Vegas

Start at: 2018-06-19 06:01:43
End at: 2018-06-19 06:02:13
Local clock offset: 0.043 ms
Remote clock offset: -1.265 ms

Below is generated by plot.py at 2018-06-19 10:15:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 63.82 Mbit/s
95th percentile per-packet one-way delay: 66.253 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.82 Mbit/s
95th percentile per-packet one-way delay: 66.253 ms
Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link

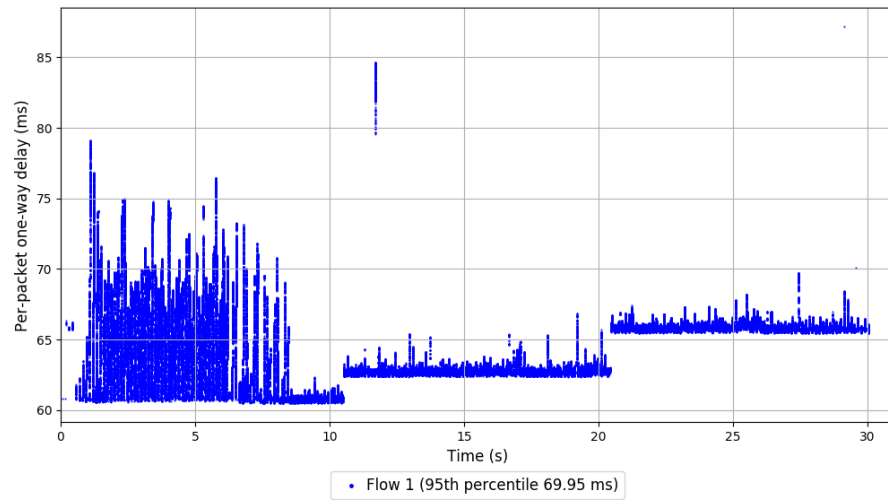
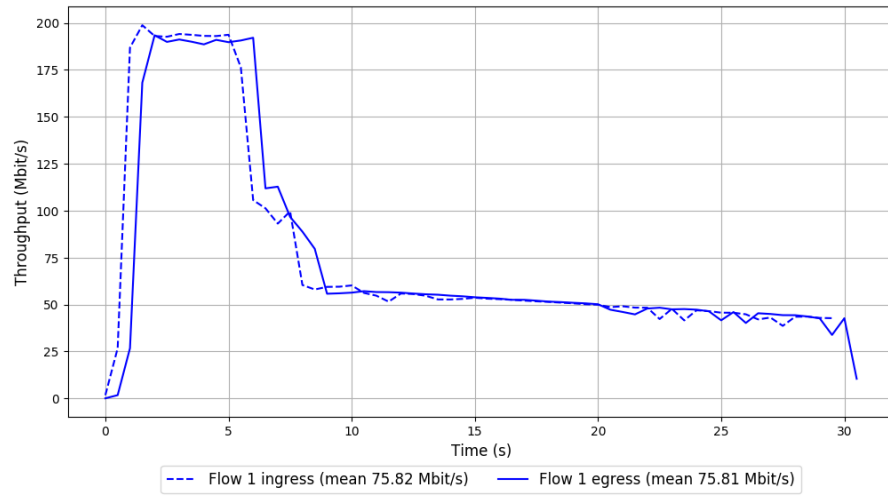


Run 2: Statistics of TCP Vegas

Start at: 2018-06-19 06:21:07
End at: 2018-06-19 06:21:37
Local clock offset: 0.027 ms
Remote clock offset: -1.058 ms

Below is generated by plot.py at 2018-06-19 10:15:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 75.81 Mbit/s
95th percentile per-packet one-way delay: 69.947 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 75.81 Mbit/s
95th percentile per-packet one-way delay: 69.947 ms
Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-06-19 06:41:02

End at: 2018-06-19 06:41:32

Local clock offset: -0.108 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2018-06-19 10:15:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.14 Mbit/s

95th percentile per-packet one-way delay: 67.390 ms

Loss rate: 0.00%

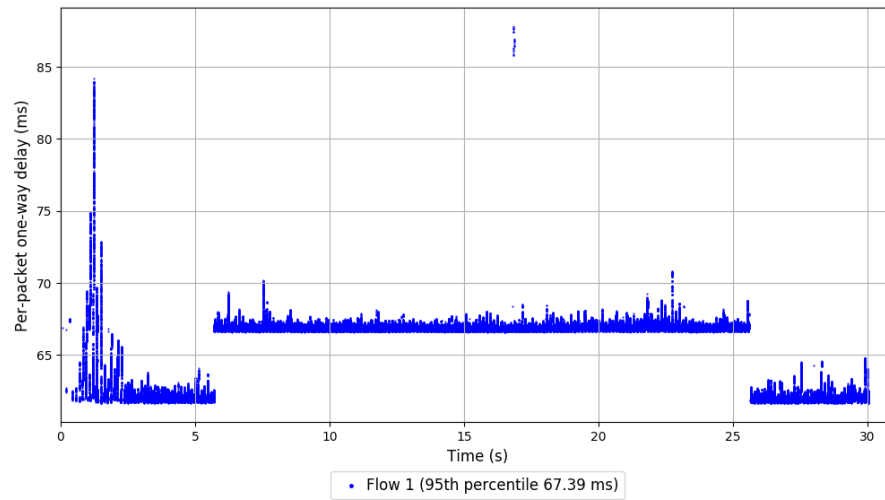
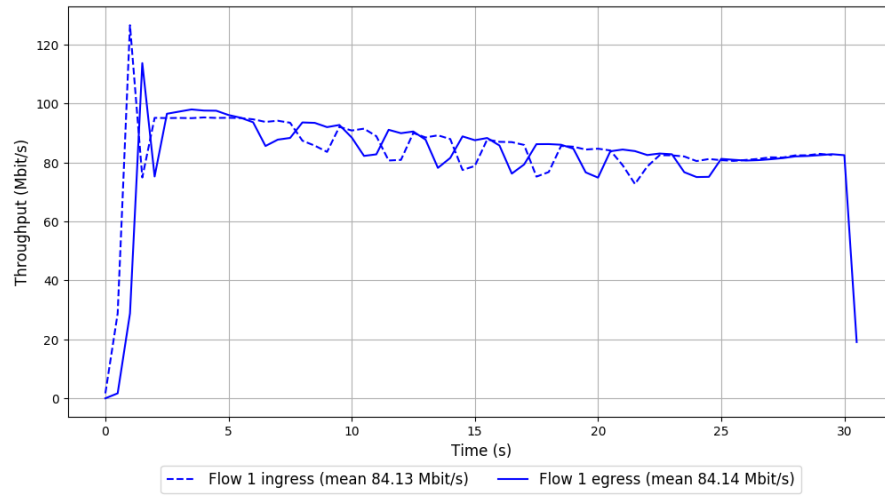
-- Flow 1:

Average throughput: 84.14 Mbit/s

95th percentile per-packet one-way delay: 67.390 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-06-19 07:01:18

End at: 2018-06-19 07:01:48

Local clock offset: -0.121 ms

Remote clock offset: 1.391 ms

Below is generated by plot.py at 2018-06-19 10:15:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.03 Mbit/s

95th percentile per-packet one-way delay: 66.434 ms

Loss rate: 0.00%

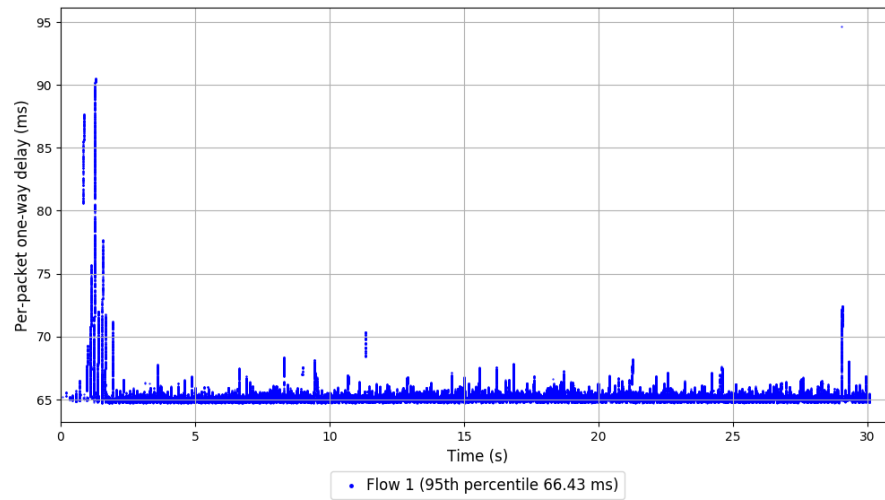
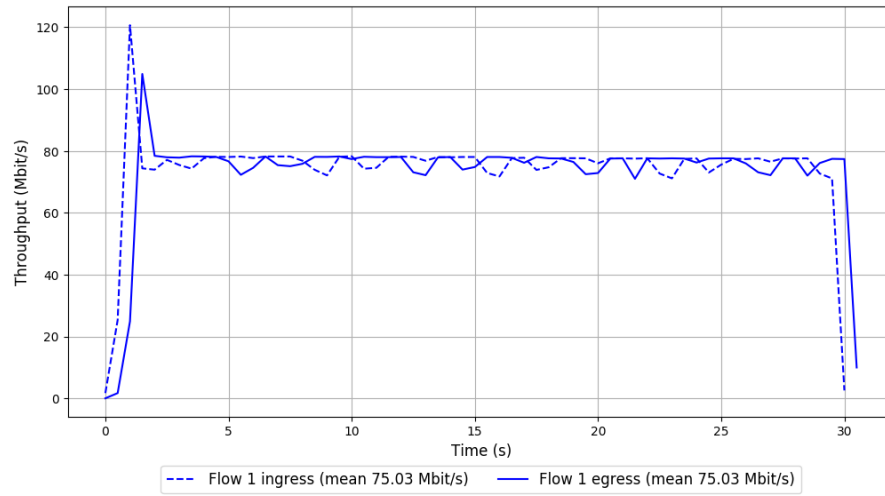
-- Flow 1:

Average throughput: 75.03 Mbit/s

95th percentile per-packet one-way delay: 66.434 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-06-19 07:21:32

End at: 2018-06-19 07:22:02

Local clock offset: 0.031 ms

Remote clock offset: -0.051 ms

Below is generated by plot.py at 2018-06-19 10:15:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.50 Mbit/s

95th percentile per-packet one-way delay: 65.135 ms

Loss rate: 0.00%

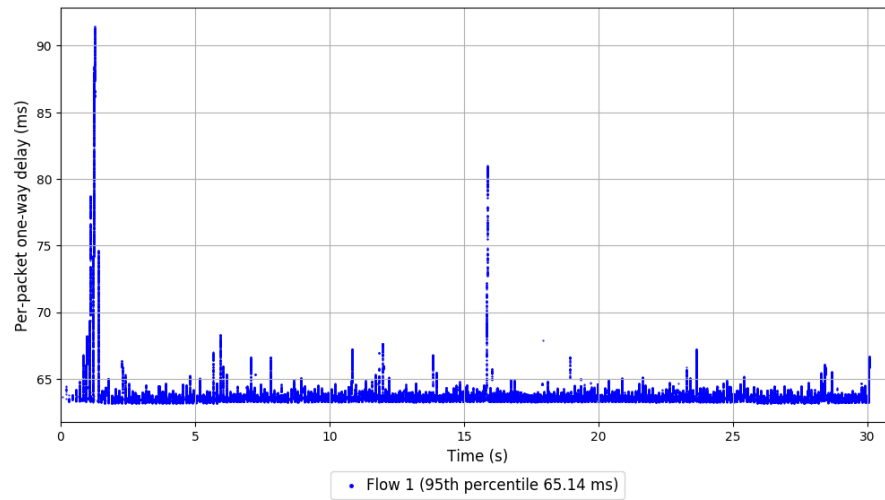
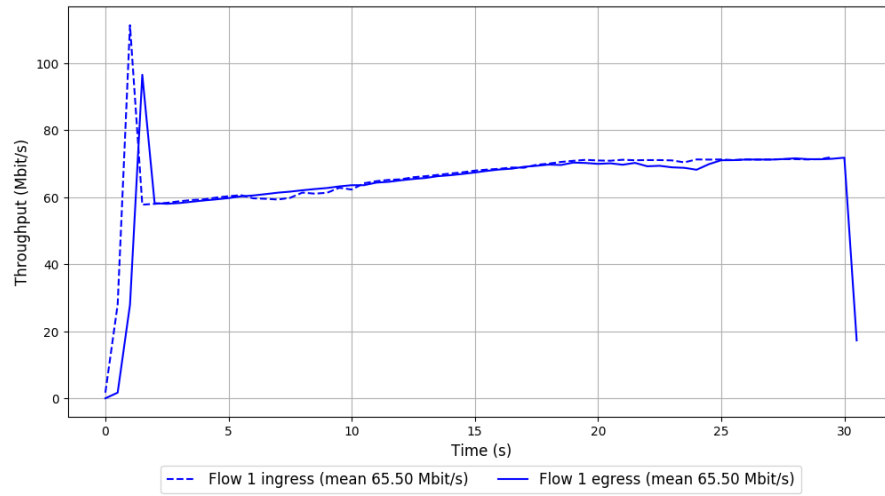
-- Flow 1:

Average throughput: 65.50 Mbit/s

95th percentile per-packet one-way delay: 65.135 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link

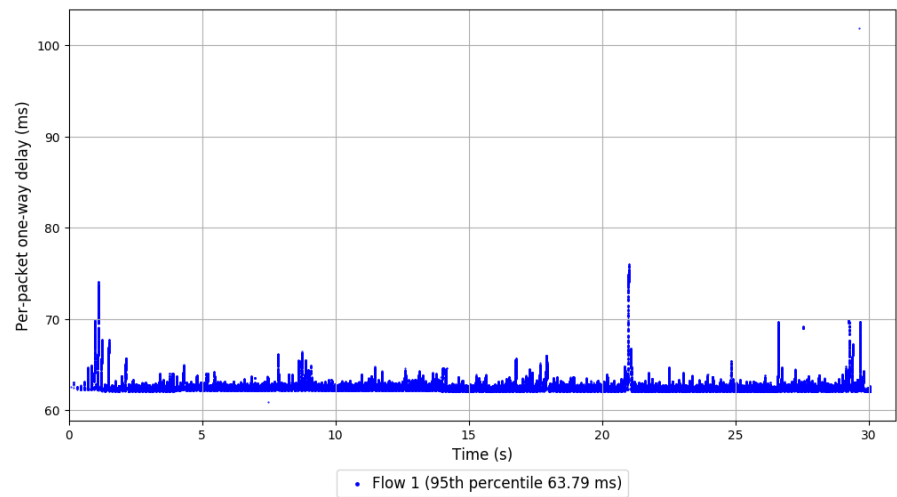
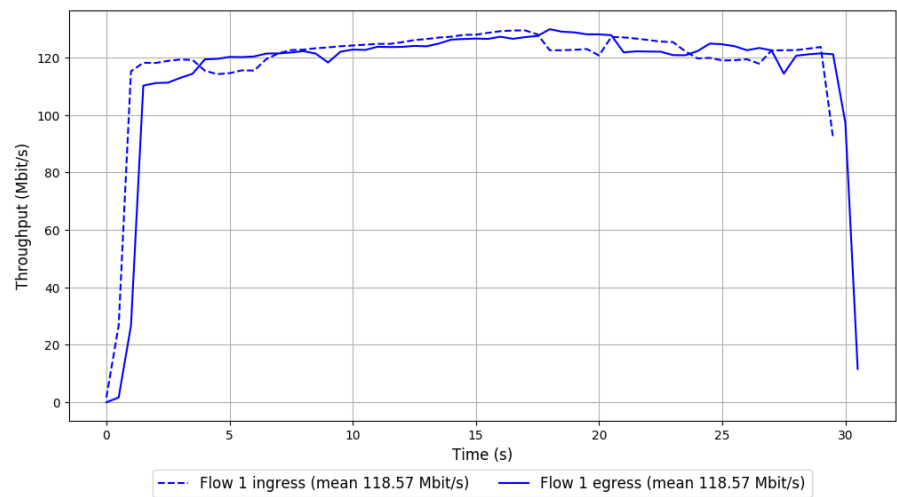


Run 6: Statistics of TCP Vegas

Start at: 2018-06-19 07:41:44
End at: 2018-06-19 07:42:14
Local clock offset: 0.001 ms
Remote clock offset: -1.205 ms

Below is generated by plot.py at 2018-06-19 10:15:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 118.57 Mbit/s
95th percentile per-packet one-way delay: 63.793 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 118.57 Mbit/s
95th percentile per-packet one-way delay: 63.793 ms
Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link

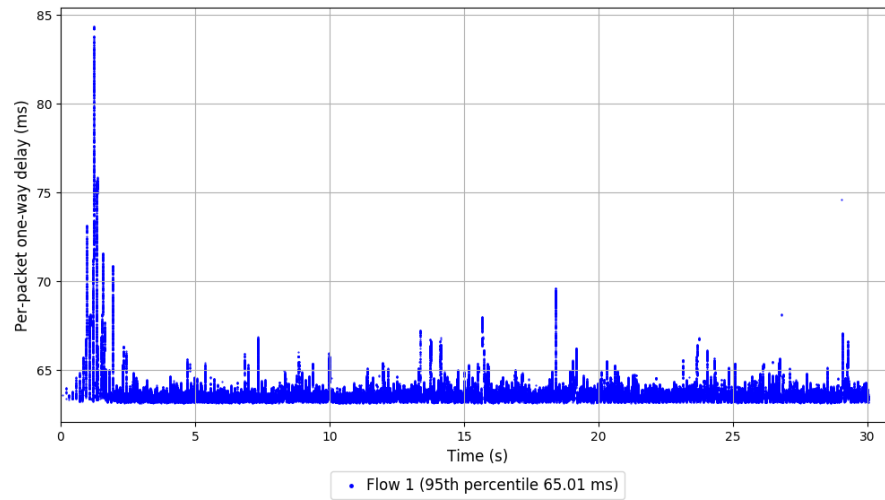
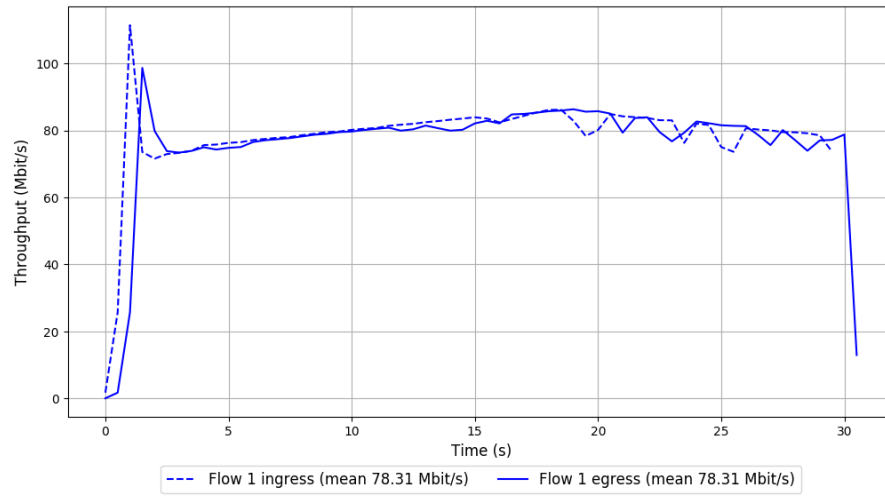


Run 7: Statistics of TCP Vegas

Start at: 2018-06-19 08:01:53
End at: 2018-06-19 08:02:23
Local clock offset: -0.069 ms
Remote clock offset: -0.284 ms

Below is generated by plot.py at 2018-06-19 10:15:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 78.31 Mbit/s
95th percentile per-packet one-way delay: 65.008 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 78.31 Mbit/s
95th percentile per-packet one-way delay: 65.008 ms
Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link

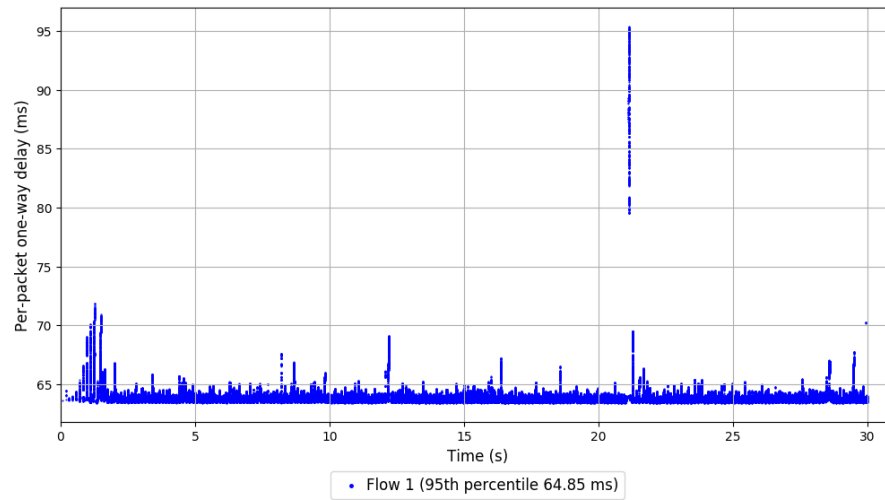
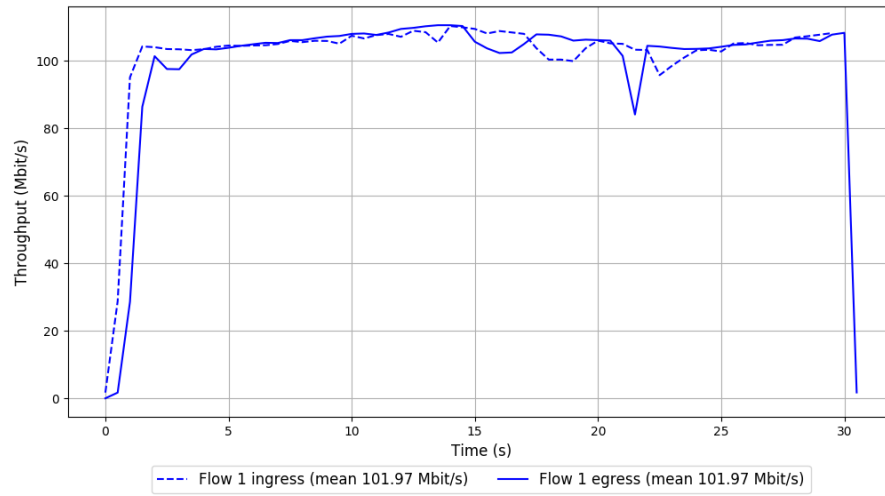


Run 8: Statistics of TCP Vegas

Start at: 2018-06-19 08:21:58
End at: 2018-06-19 08:22:28
Local clock offset: -0.03 ms
Remote clock offset: -0.013 ms

Below is generated by plot.py at 2018-06-19 10:15:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 101.97 Mbit/s
95th percentile per-packet one-way delay: 64.851 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 101.97 Mbit/s
95th percentile per-packet one-way delay: 64.851 ms
Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link

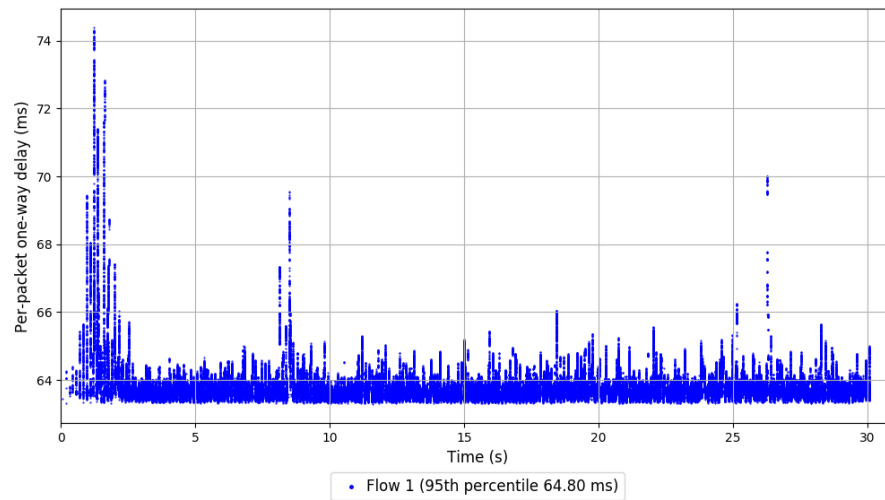
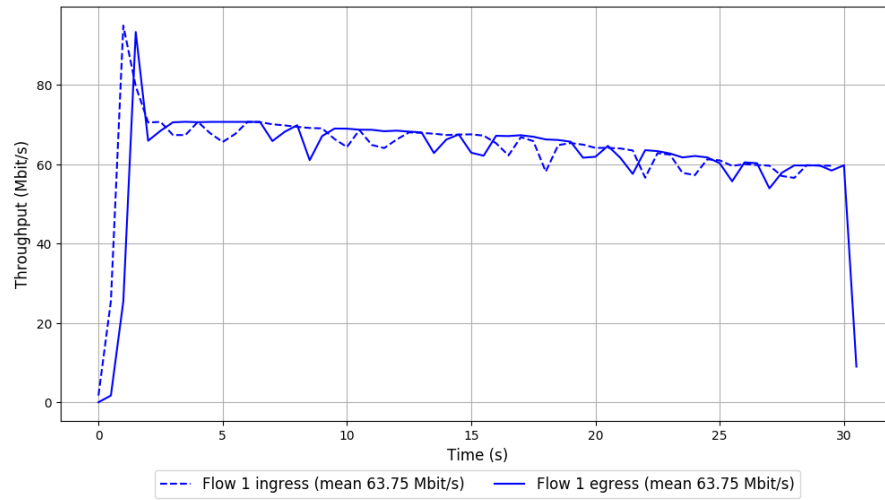


Run 9: Statistics of TCP Vegas

Start at: 2018-06-19 08:42:05
End at: 2018-06-19 08:42:35
Local clock offset: 0.022 ms
Remote clock offset: -0.065 ms

Below is generated by plot.py at 2018-06-19 10:15:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 63.75 Mbit/s
95th percentile per-packet one-way delay: 64.801 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.75 Mbit/s
95th percentile per-packet one-way delay: 64.801 ms
Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-06-19 09:02:04

End at: 2018-06-19 09:02:34

Local clock offset: -0.101 ms

Remote clock offset: 0.141 ms

Below is generated by plot.py at 2018-06-19 10:15:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.98 Mbit/s

95th percentile per-packet one-way delay: 64.616 ms

Loss rate: 0.00%

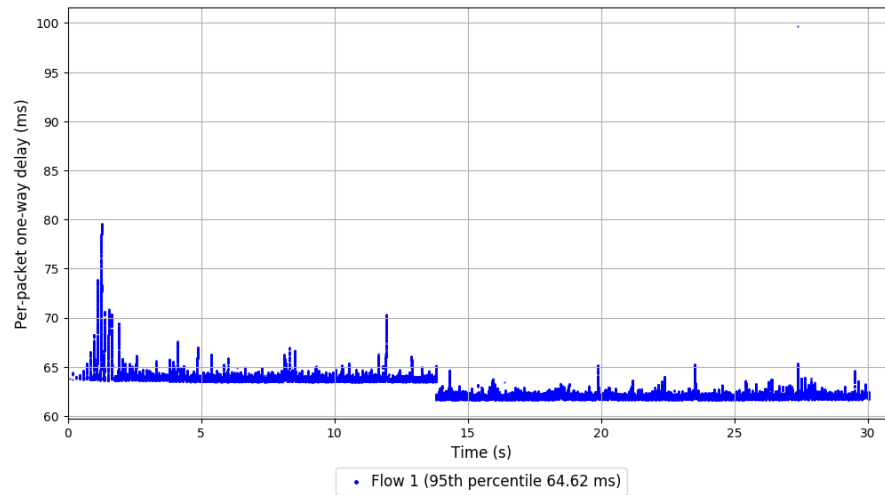
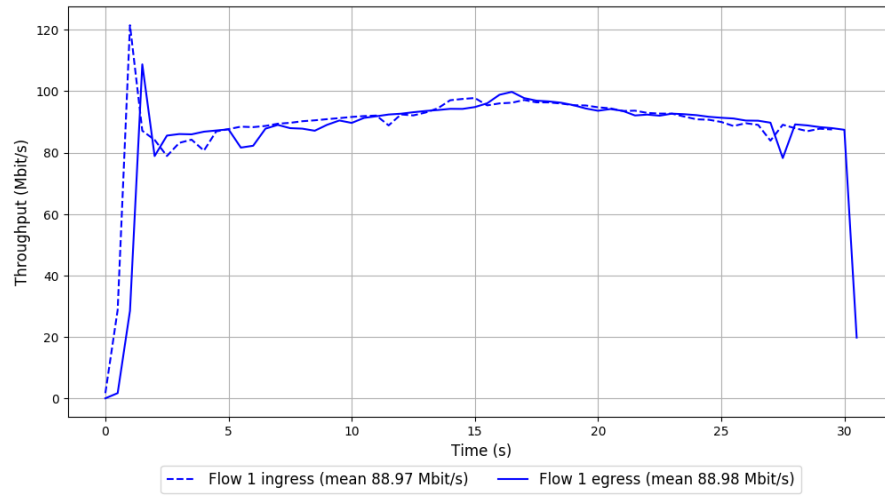
-- Flow 1:

Average throughput: 88.98 Mbit/s

95th percentile per-packet one-way delay: 64.616 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

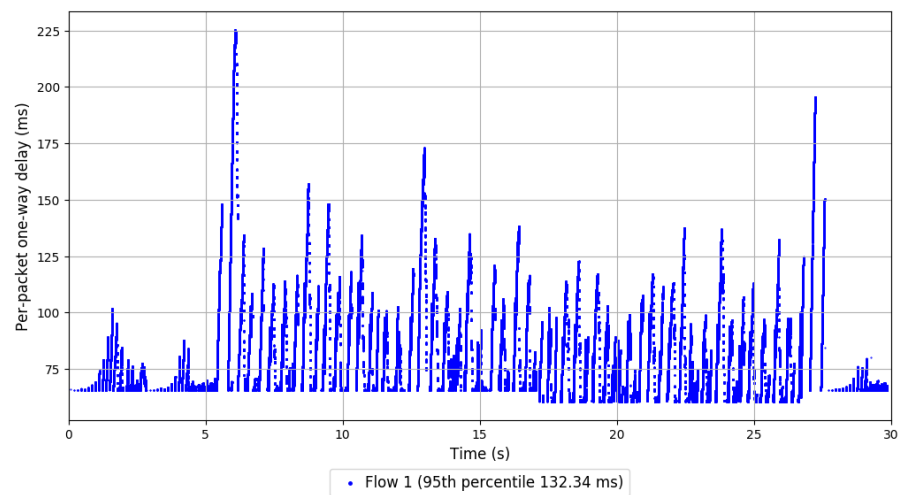
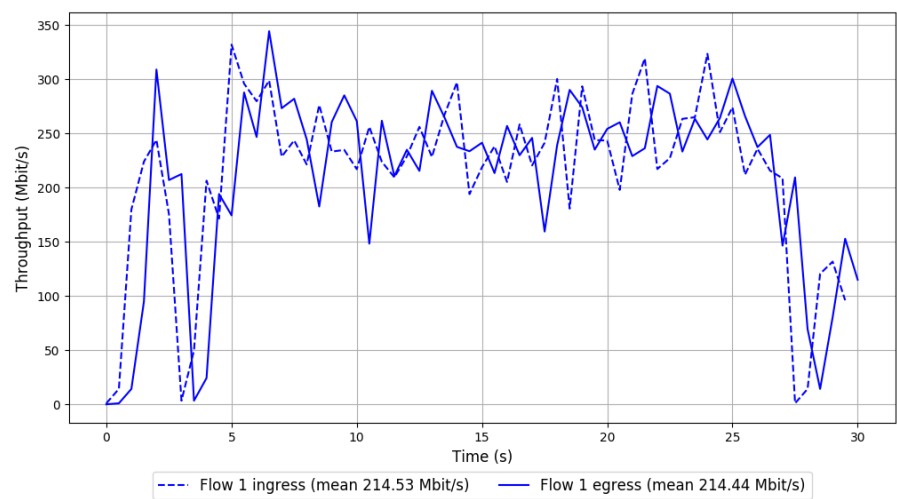


Run 1: Statistics of Verus

Start at: 2018-06-19 05:47:01
End at: 2018-06-19 05:47:31
Local clock offset: -0.014 ms
Remote clock offset: -1.052 ms

Below is generated by plot.py at 2018-06-19 10:16:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 214.44 Mbit/s
95th percentile per-packet one-way delay: 132.335 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 214.44 Mbit/s
95th percentile per-packet one-way delay: 132.335 ms
Loss rate: 0.04%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-06-19 06:06:50

End at: 2018-06-19 06:07:20

Local clock offset: -0.004 ms

Remote clock offset: 1.067 ms

Below is generated by plot.py at 2018-06-19 10:17:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 235.11 Mbit/s

95th percentile per-packet one-way delay: 113.342 ms

Loss rate: 0.20%

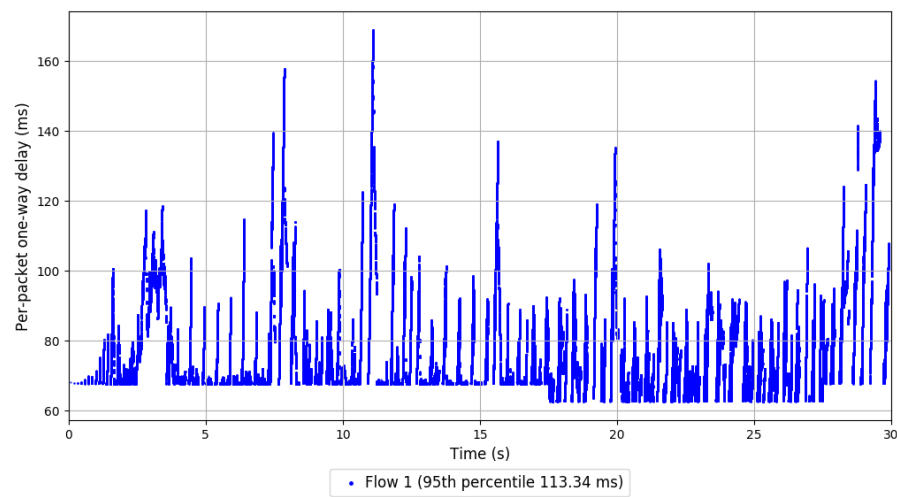
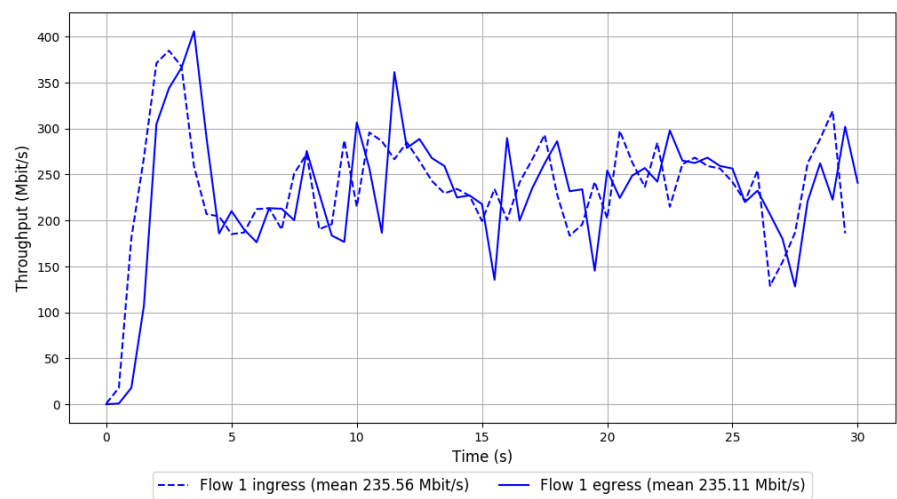
-- Flow 1:

Average throughput: 235.11 Mbit/s

95th percentile per-packet one-way delay: 113.342 ms

Loss rate: 0.20%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-06-19 06:26:21

End at: 2018-06-19 06:26:51

Local clock offset: 0.014 ms

Remote clock offset: 1.476 ms

Below is generated by plot.py at 2018-06-19 10:17:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.62 Mbit/s

95th percentile per-packet one-way delay: 118.671 ms

Loss rate: 0.00%

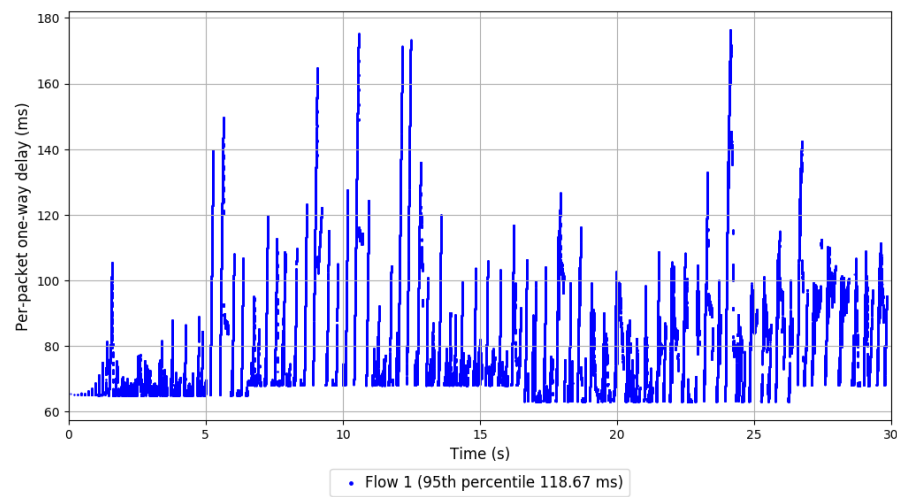
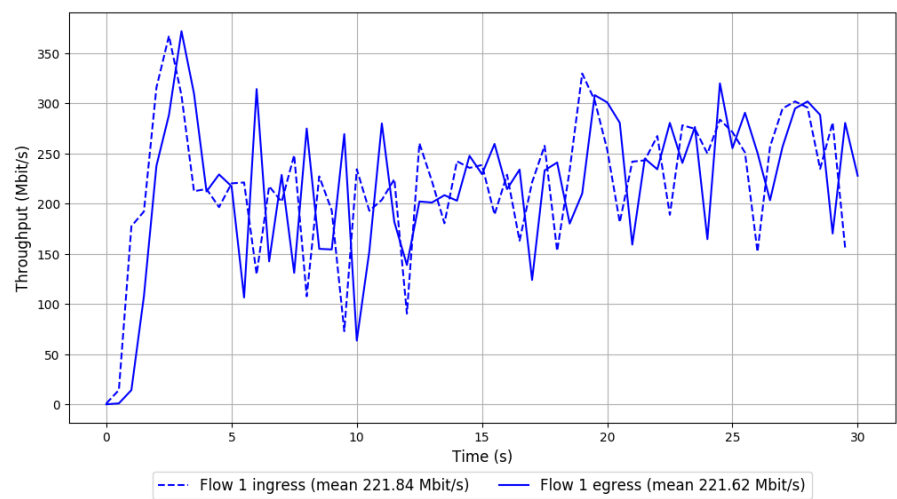
-- Flow 1:

Average throughput: 221.62 Mbit/s

95th percentile per-packet one-way delay: 118.671 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link

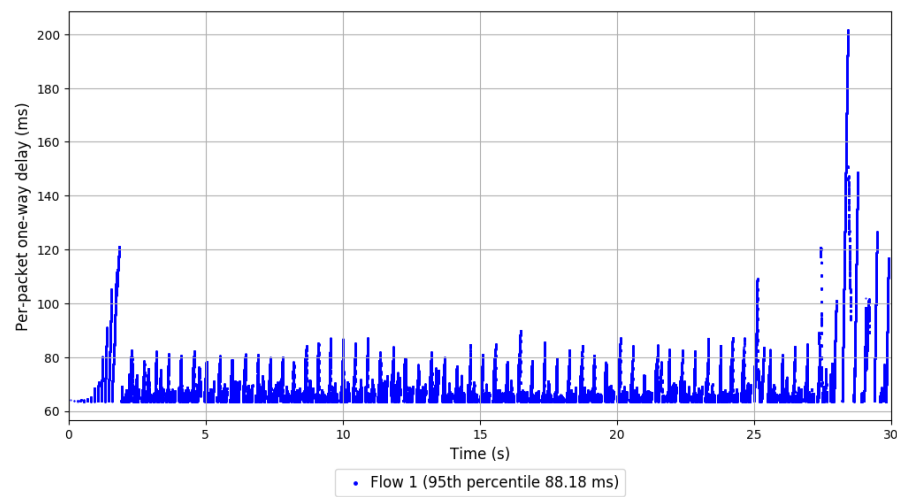
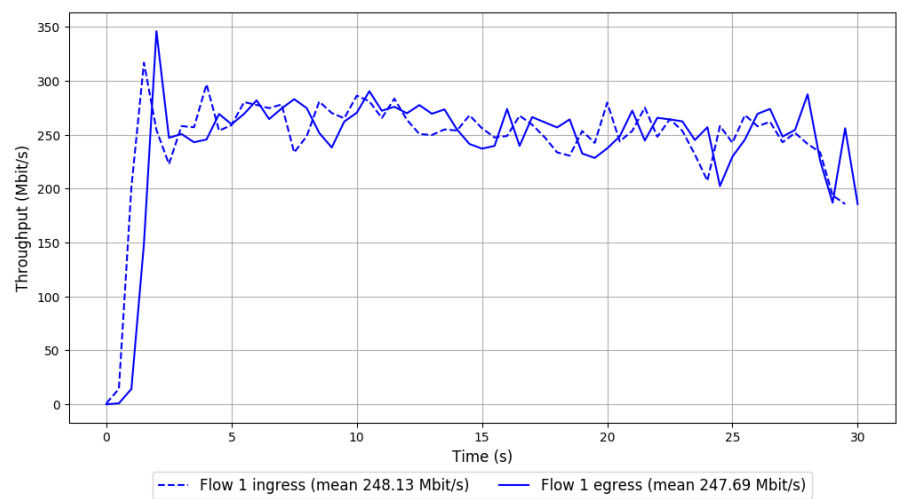


Run 4: Statistics of Verus

Start at: 2018-06-19 06:46:32
End at: 2018-06-19 06:47:02
Local clock offset: -0.09 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2018-06-19 10:18:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 247.69 Mbit/s
95th percentile per-packet one-way delay: 88.178 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 247.69 Mbit/s
95th percentile per-packet one-way delay: 88.178 ms
Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-06-19 07:06:48

End at: 2018-06-19 07:07:18

Local clock offset: -0.076 ms

Remote clock offset: 1.054 ms

Below is generated by plot.py at 2018-06-19 10:18:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.00 Mbit/s

95th percentile per-packet one-way delay: 94.554 ms

Loss rate: 0.00%

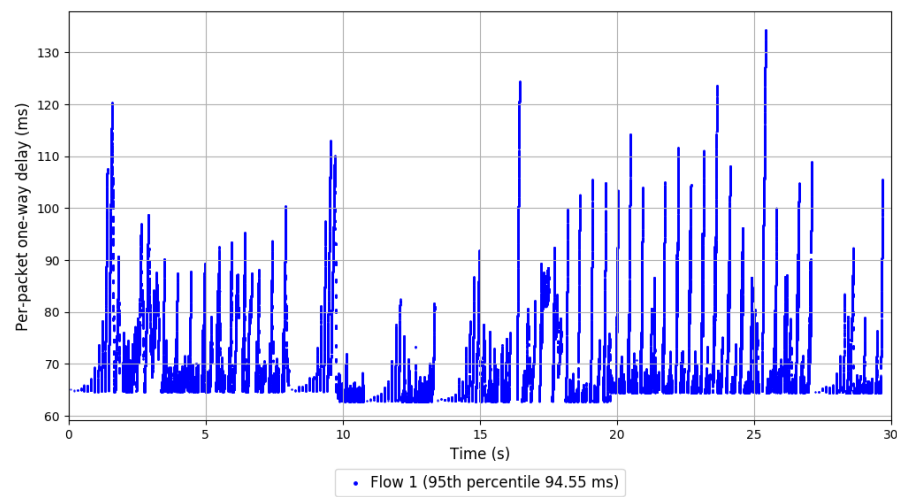
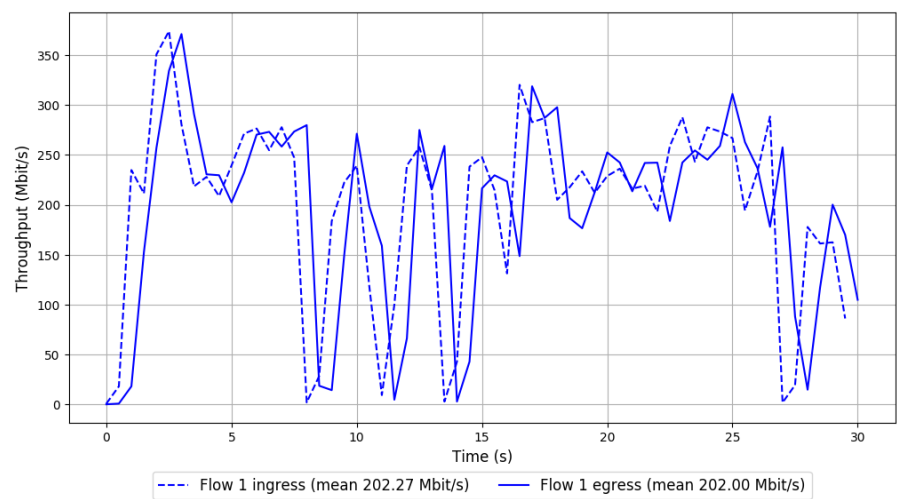
-- Flow 1:

Average throughput: 202.00 Mbit/s

95th percentile per-packet one-way delay: 94.554 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-06-19 07:27:06

End at: 2018-06-19 07:27:36

Local clock offset: 0.016 ms

Remote clock offset: 1.245 ms

Below is generated by plot.py at 2018-06-19 10:18:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.86 Mbit/s

95th percentile per-packet one-way delay: 91.861 ms

Loss rate: 0.00%

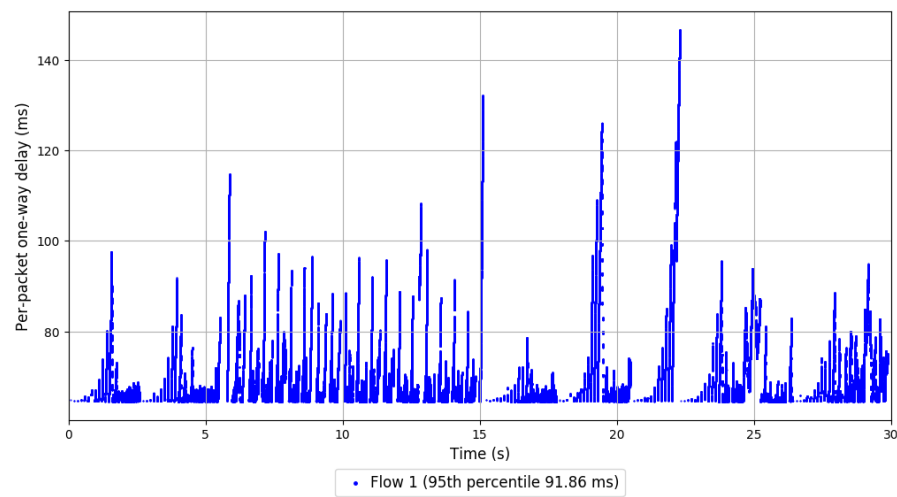
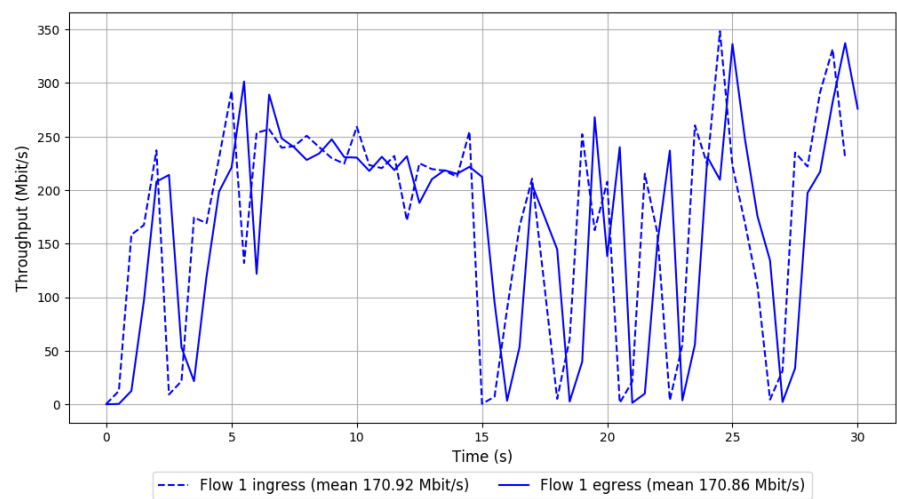
-- Flow 1:

Average throughput: 170.86 Mbit/s

95th percentile per-packet one-way delay: 91.861 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link

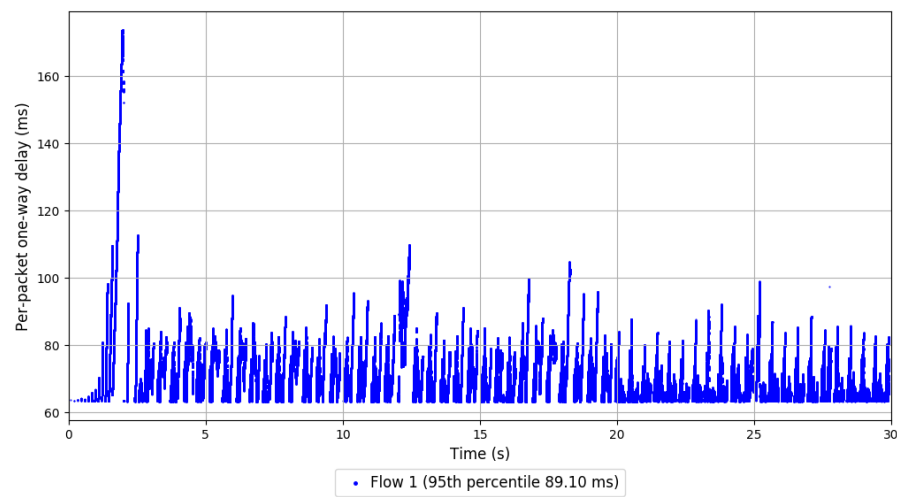
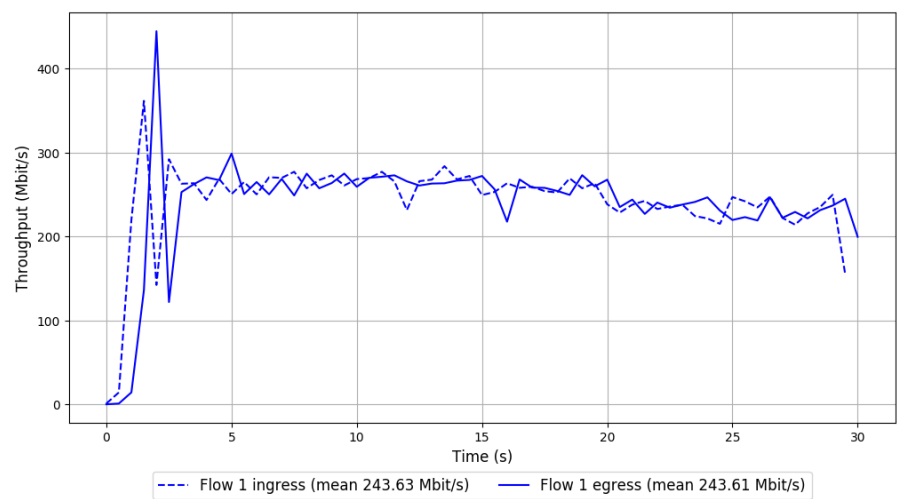


Run 7: Statistics of Verus

Start at: 2018-06-19 07:47:07
End at: 2018-06-19 07:47:37
Local clock offset: -0.014 ms
Remote clock offset: -0.224 ms

Below is generated by plot.py at 2018-06-19 10:20:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 243.61 Mbit/s
95th percentile per-packet one-way delay: 89.103 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 243.61 Mbit/s
95th percentile per-packet one-way delay: 89.103 ms
Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-06-19 08:07:14

End at: 2018-06-19 08:07:44

Local clock offset: -0.051 ms

Remote clock offset: 0.024 ms

Below is generated by plot.py at 2018-06-19 10:20:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.98 Mbit/s

95th percentile per-packet one-way delay: 114.310 ms

Loss rate: 0.02%

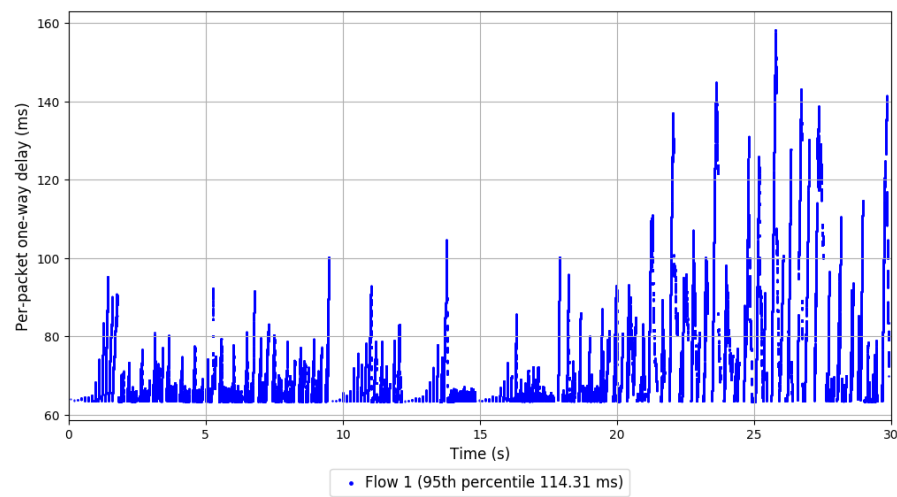
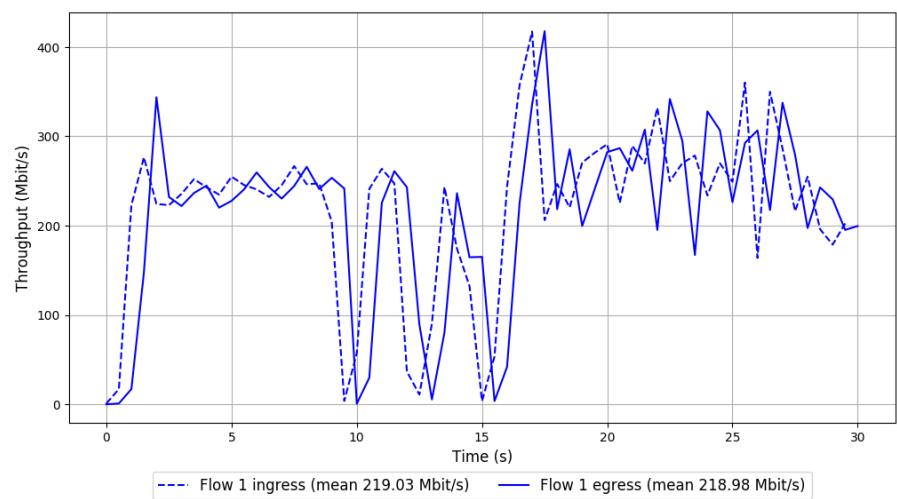
-- Flow 1:

Average throughput: 218.98 Mbit/s

95th percentile per-packet one-way delay: 114.310 ms

Loss rate: 0.02%

Run 8: Report of Verus — Data Link

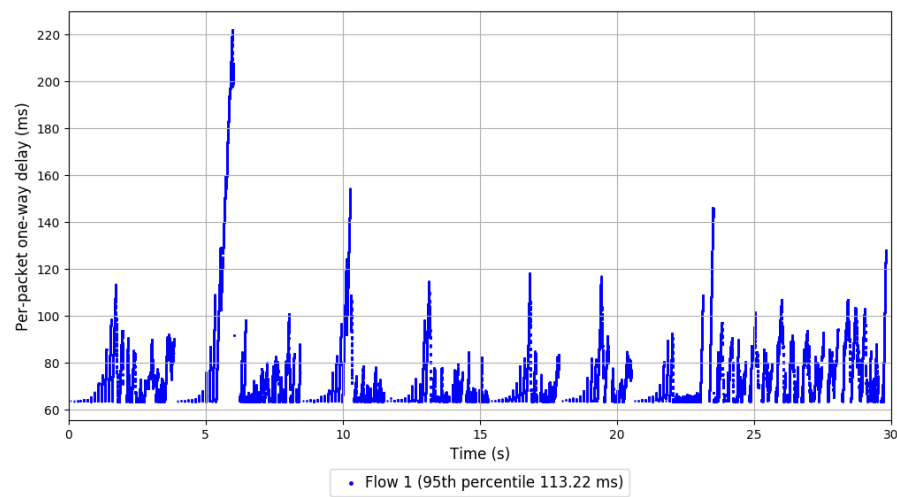
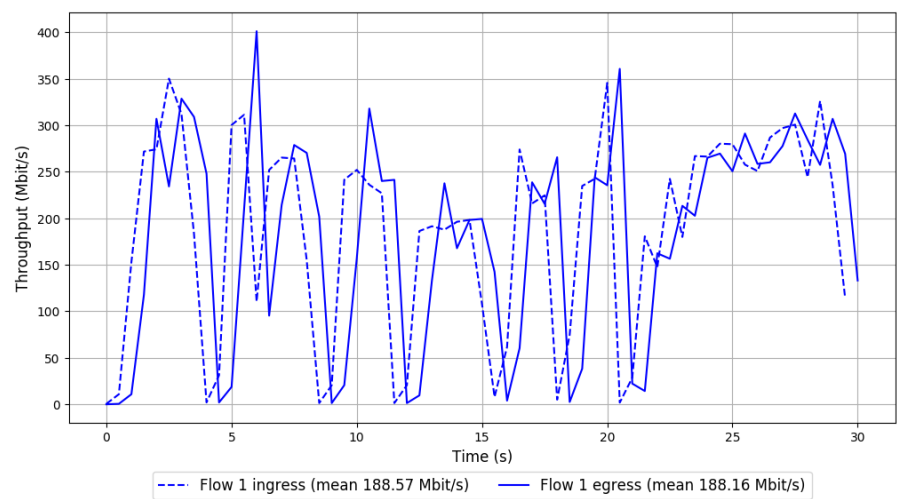


Run 9: Statistics of Verus

Start at: 2018-06-19 08:27:28
End at: 2018-06-19 08:27:59
Local clock offset: 0.023 ms
Remote clock offset: -0.032 ms

Below is generated by plot.py at 2018-06-19 10:20:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 188.16 Mbit/s
95th percentile per-packet one-way delay: 113.217 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 188.16 Mbit/s
95th percentile per-packet one-way delay: 113.217 ms
Loss rate: 0.00%

Run 9: Report of Verus — Data Link

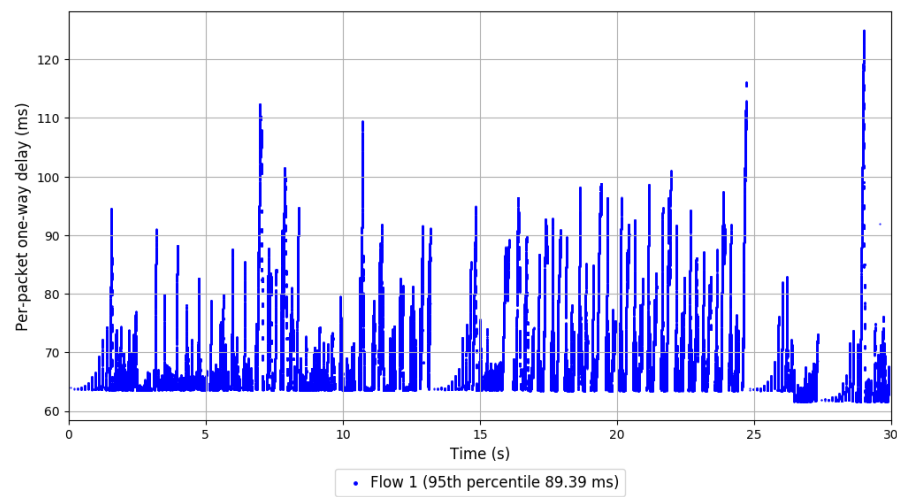
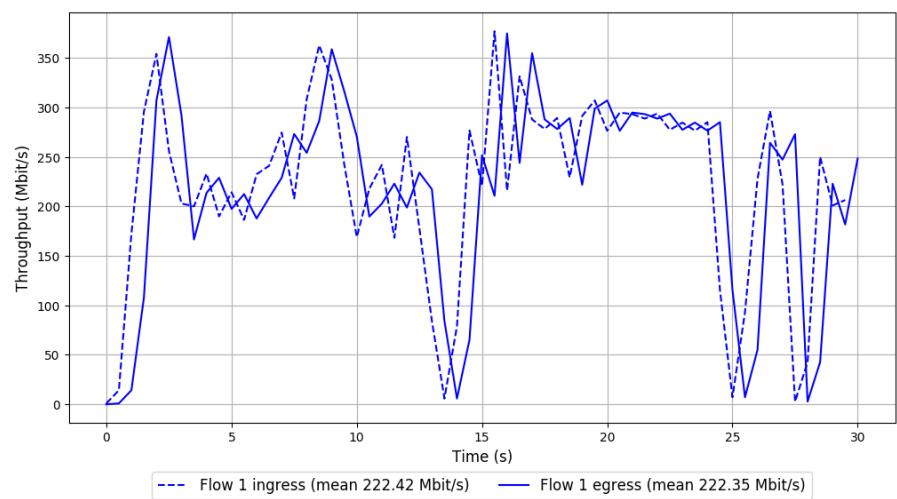


Run 10: Statistics of Verus

Start at: 2018-06-19 08:47:21
End at: 2018-06-19 08:47:51
Local clock offset: -0.06 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-06-19 10:21:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 222.35 Mbit/s
95th percentile per-packet one-way delay: 89.385 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 222.35 Mbit/s
95th percentile per-packet one-way delay: 89.385 ms
Loss rate: 0.03%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-06-19 05:55:23

End at: 2018-06-19 05:55:53

Local clock offset: 0.013 ms

Remote clock offset: 1.287 ms

Below is generated by plot.py at 2018-06-19 10:23:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 316.81 Mbit/s

95th percentile per-packet one-way delay: 73.960 ms

Loss rate: 0.00%

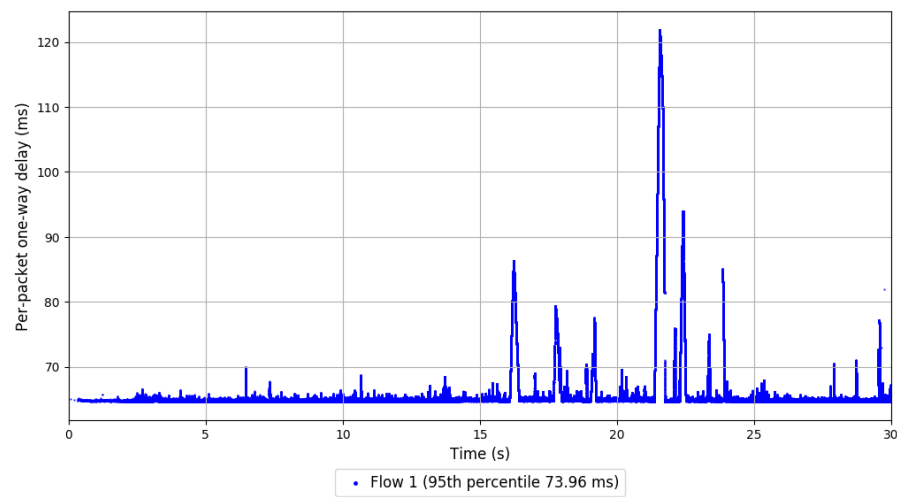
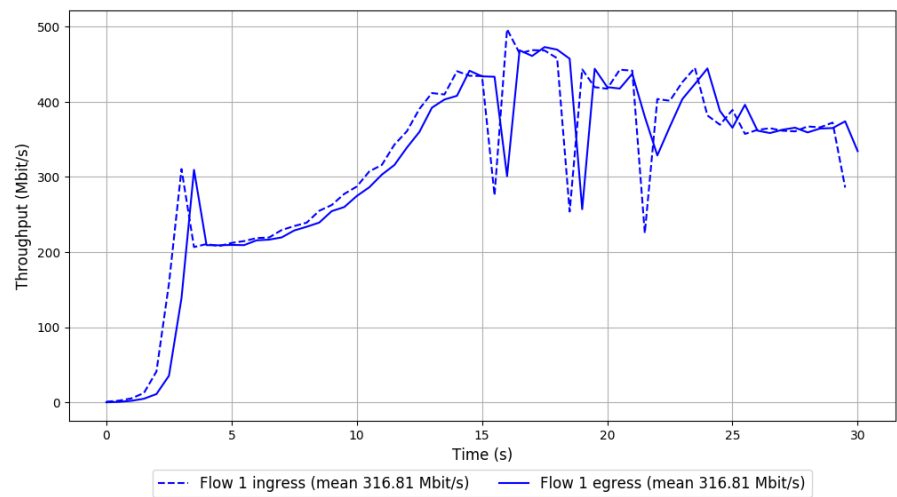
-- Flow 1:

Average throughput: 316.81 Mbit/s

95th percentile per-packet one-way delay: 73.960 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-06-19 06:15:10

End at: 2018-06-19 06:15:40

Local clock offset: 0.048 ms

Remote clock offset: 0.068 ms

Below is generated by plot.py at 2018-06-19 10:23:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.44 Mbit/s

95th percentile per-packet one-way delay: 68.251 ms

Loss rate: 0.00%

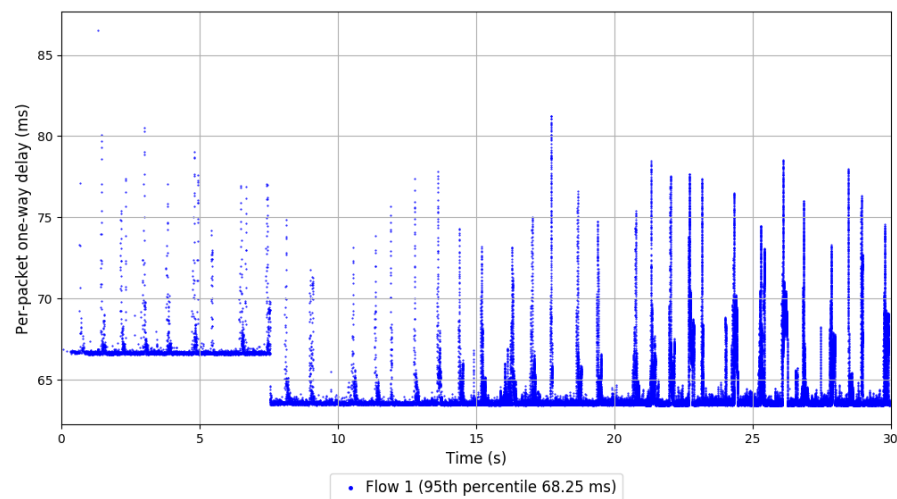
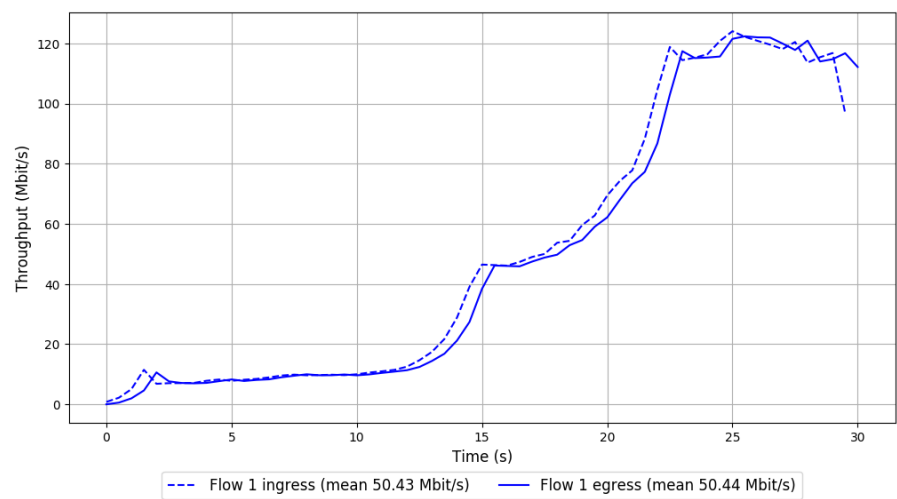
-- Flow 1:

Average throughput: 50.44 Mbit/s

95th percentile per-packet one-way delay: 68.251 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-06-19 06:34:44

End at: 2018-06-19 06:35:14

Local clock offset: -0.011 ms

Remote clock offset: 1.142 ms

Below is generated by plot.py at 2018-06-19 10:23:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 259.23 Mbit/s

95th percentile per-packet one-way delay: 65.311 ms

Loss rate: 0.00%

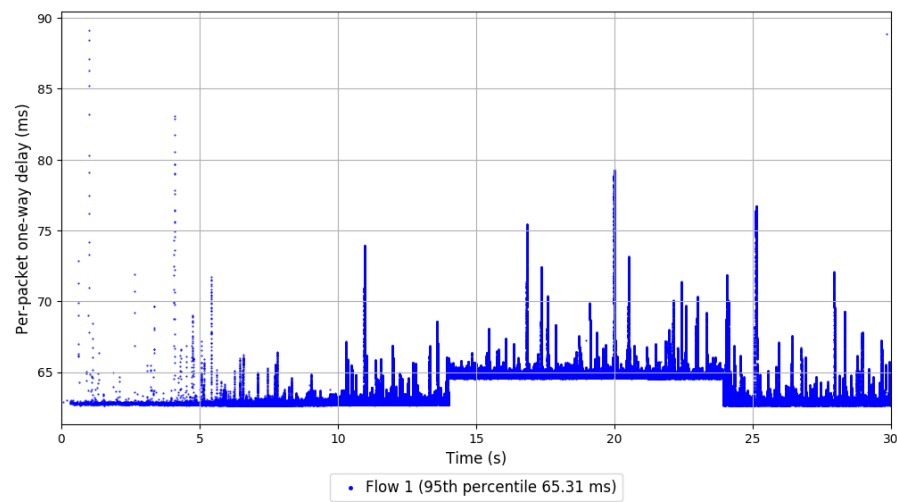
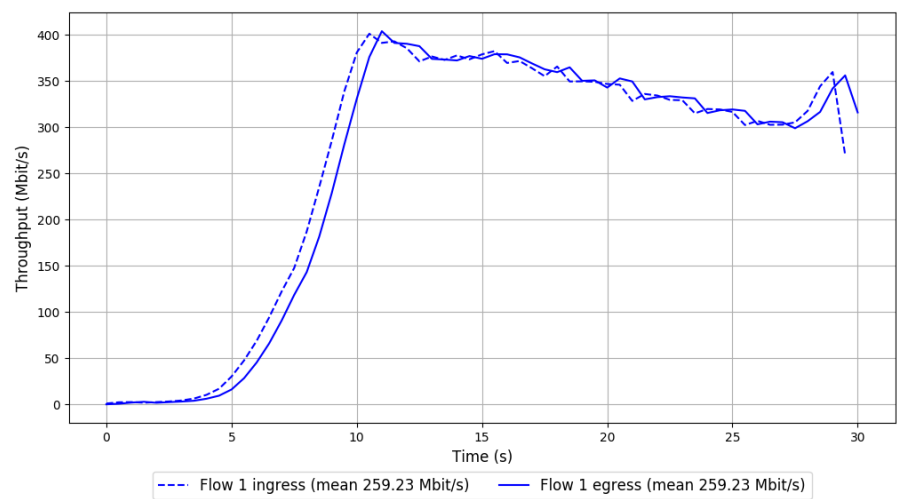
-- Flow 1:

Average throughput: 259.23 Mbit/s

95th percentile per-packet one-way delay: 65.311 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-06-19 06:54:57

End at: 2018-06-19 06:55:27

Local clock offset: -0.111 ms

Remote clock offset: 1.26 ms

Below is generated by plot.py at 2018-06-19 10:24:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 319.81 Mbit/s

95th percentile per-packet one-way delay: 66.369 ms

Loss rate: 0.01%

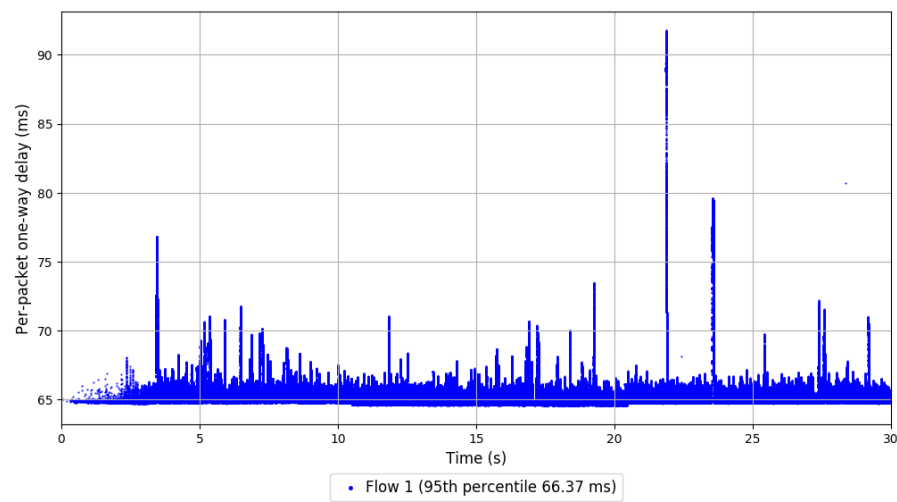
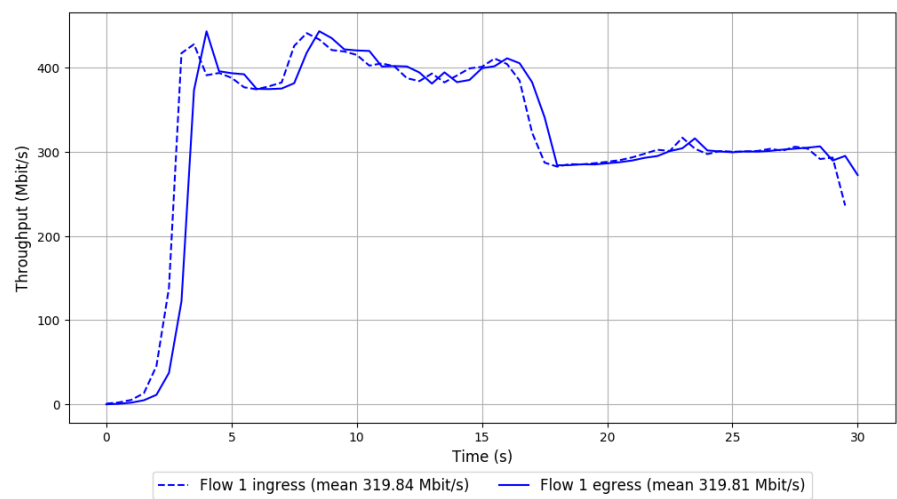
-- Flow 1:

Average throughput: 319.81 Mbit/s

95th percentile per-packet one-way delay: 66.369 ms

Loss rate: 0.01%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-06-19 07:15:09

End at: 2018-06-19 07:15:39

Local clock offset: -0.042 ms

Remote clock offset: 0.117 ms

Below is generated by plot.py at 2018-06-19 10:25:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 359.55 Mbit/s

95th percentile per-packet one-way delay: 63.888 ms

Loss rate: 0.00%

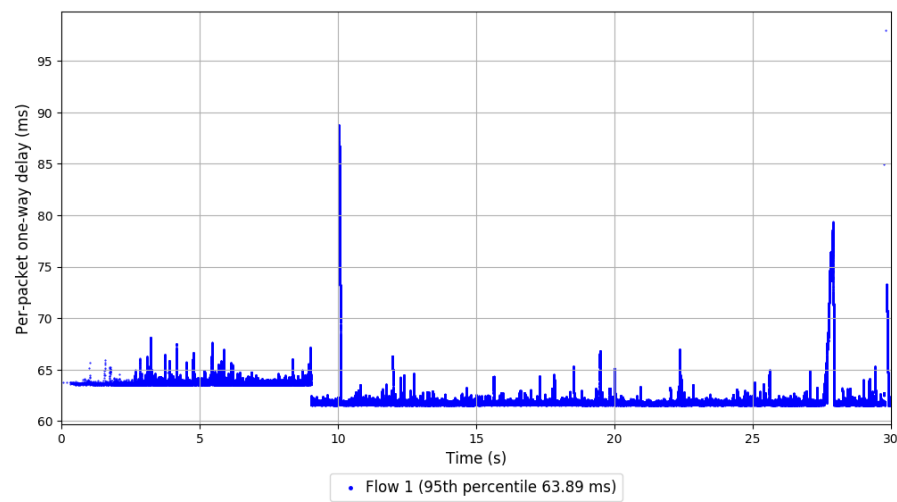
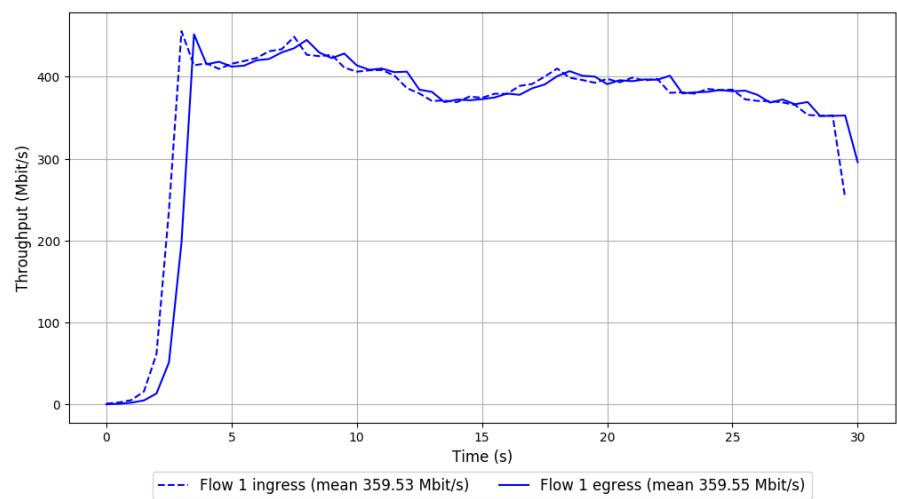
-- Flow 1:

Average throughput: 359.55 Mbit/s

95th percentile per-packet one-way delay: 63.888 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-06-19 07:35:25

End at: 2018-06-19 07:35:55

Local clock offset: 0.036 ms

Remote clock offset: 1.494 ms

Below is generated by plot.py at 2018-06-19 10:26:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 363.25 Mbit/s

95th percentile per-packet one-way delay: 63.486 ms

Loss rate: 0.00%

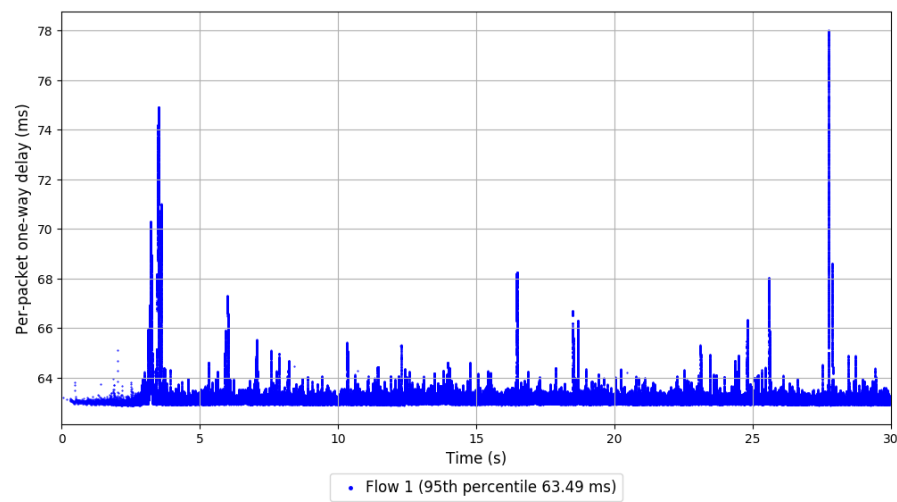
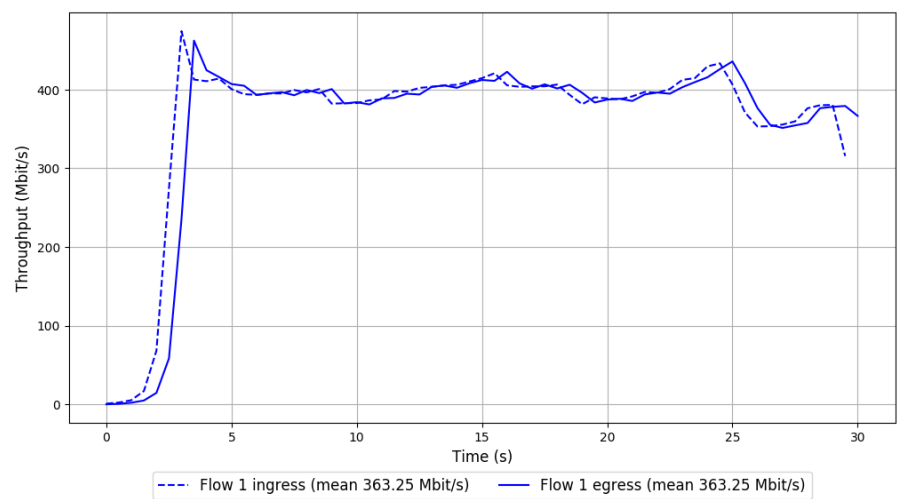
-- Flow 1:

Average throughput: 363.25 Mbit/s

95th percentile per-packet one-way delay: 63.486 ms

Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-06-19 07:55:30

End at: 2018-06-19 07:56:00

Local clock offset: -0.083 ms

Remote clock offset: -1.25 ms

Below is generated by plot.py at 2018-06-19 10:26:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 347.40 Mbit/s

95th percentile per-packet one-way delay: 62.494 ms

Loss rate: 0.00%

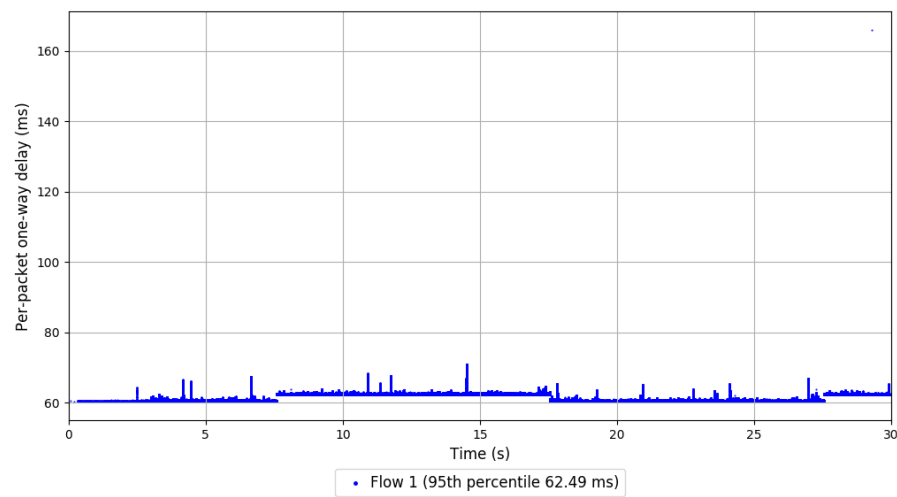
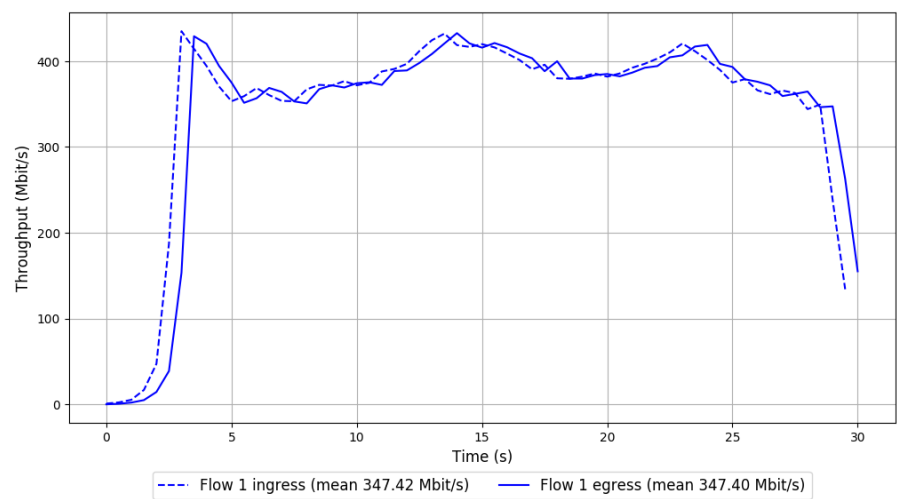
-- Flow 1:

Average throughput: 347.40 Mbit/s

95th percentile per-packet one-way delay: 62.494 ms

Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-06-19 08:15:36

End at: 2018-06-19 08:16:06

Local clock offset: -0.04 ms

Remote clock offset: 0.128 ms

Below is generated by plot.py at 2018-06-19 10:26:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 363.41 Mbit/s

95th percentile per-packet one-way delay: 64.687 ms

Loss rate: 0.00%

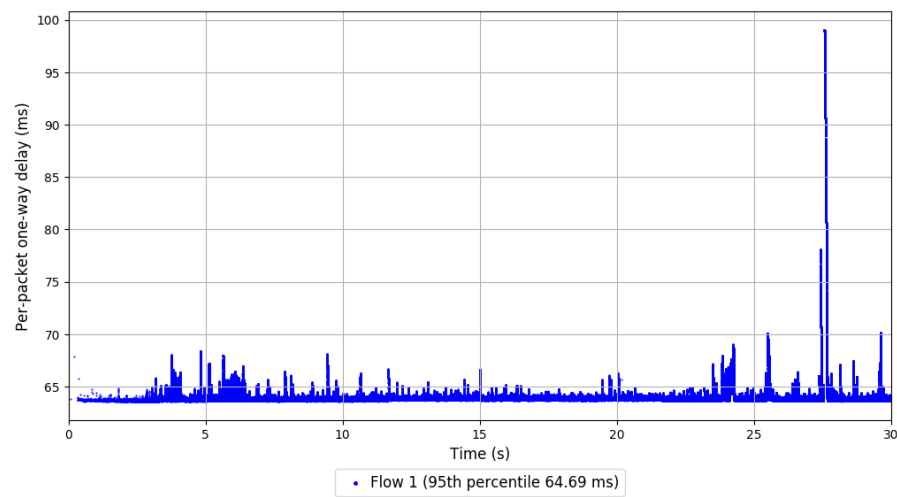
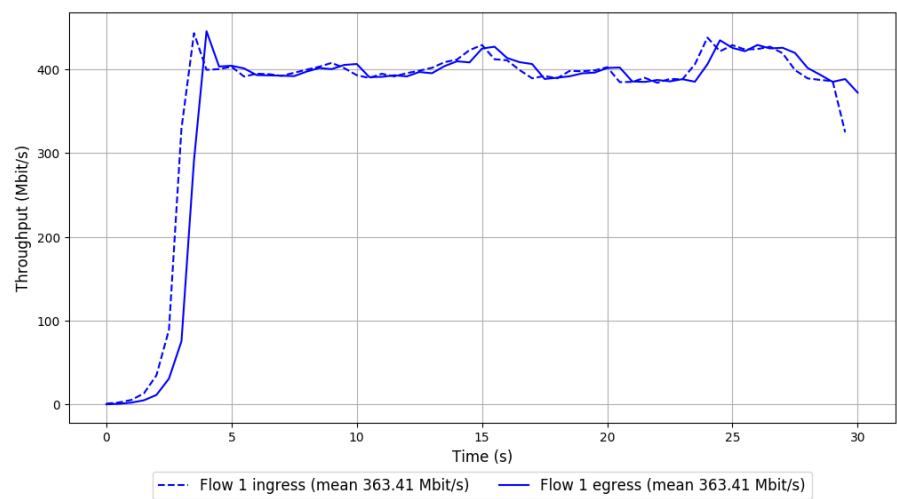
-- Flow 1:

Average throughput: 363.41 Mbit/s

95th percentile per-packet one-way delay: 64.687 ms

Loss rate: 0.00%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-06-19 08:35:48

End at: 2018-06-19 08:36:18

Local clock offset: -0.012 ms

Remote clock offset: 0.102 ms

Below is generated by plot.py at 2018-06-19 10:26:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 301.78 Mbit/s

95th percentile per-packet one-way delay: 64.877 ms

Loss rate: 0.70%

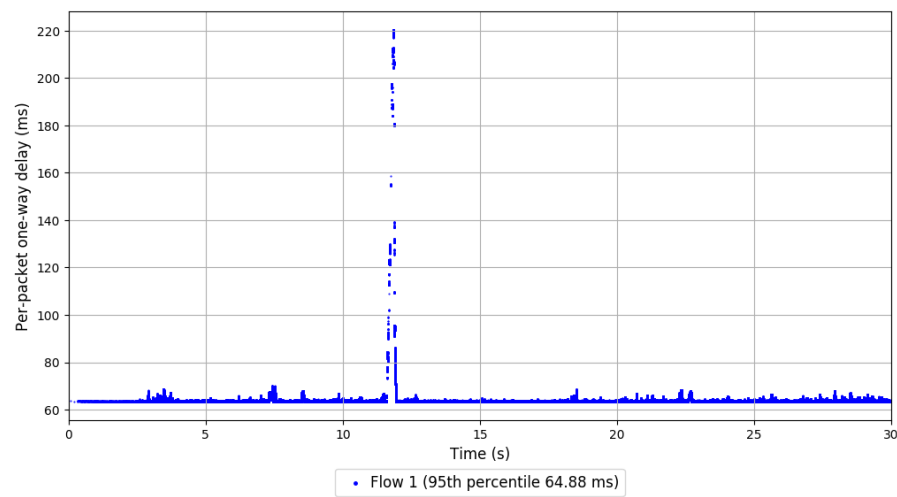
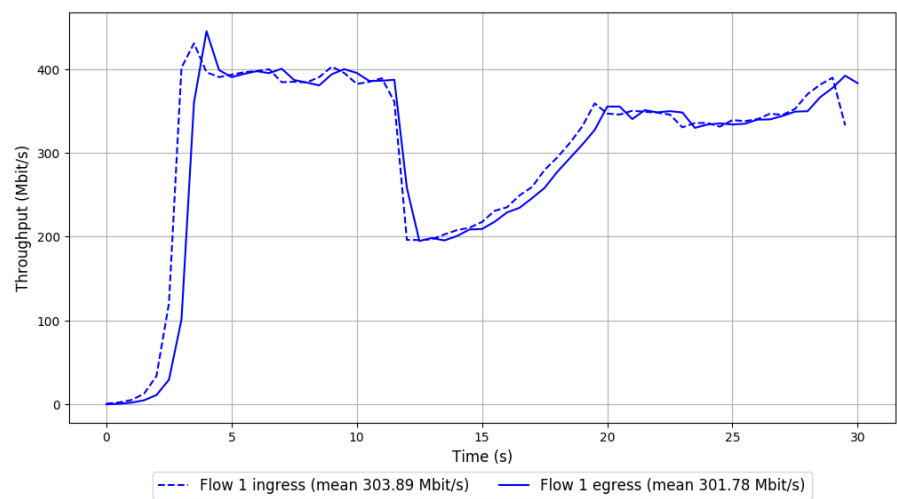
-- Flow 1:

Average throughput: 301.78 Mbit/s

95th percentile per-packet one-way delay: 64.877 ms

Loss rate: 0.70%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-06-19 08:55:41

End at: 2018-06-19 08:56:11

Local clock offset: -0.098 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at 2018-06-19 10:26:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 343.18 Mbit/s

95th percentile per-packet one-way delay: 63.824 ms

Loss rate: 0.00%

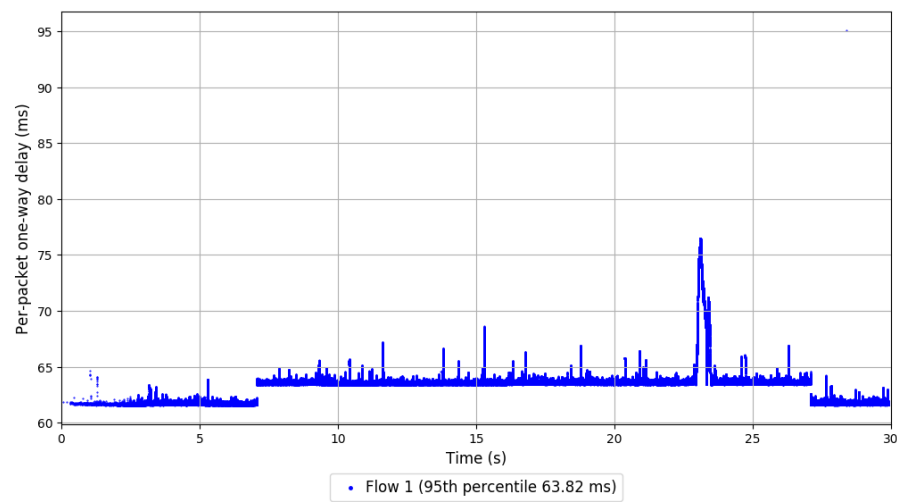
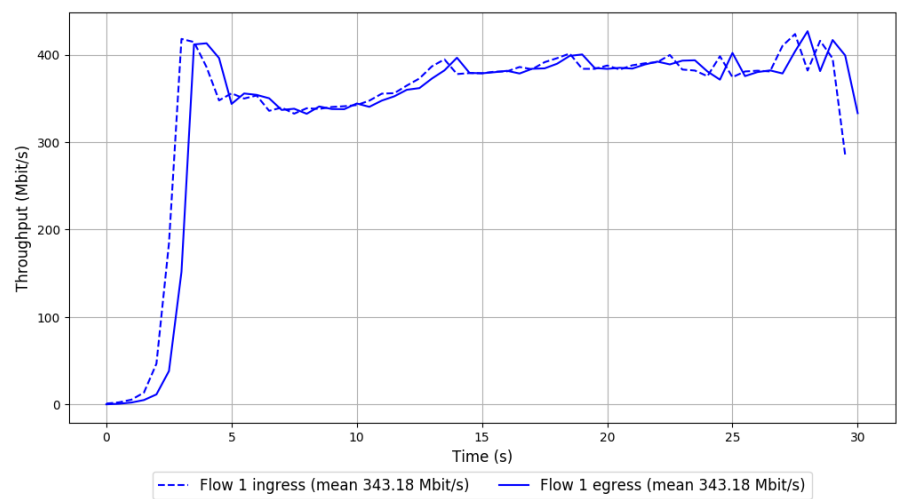
-- Flow 1:

Average throughput: 343.18 Mbit/s

95th percentile per-packet one-way delay: 63.824 ms

Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link

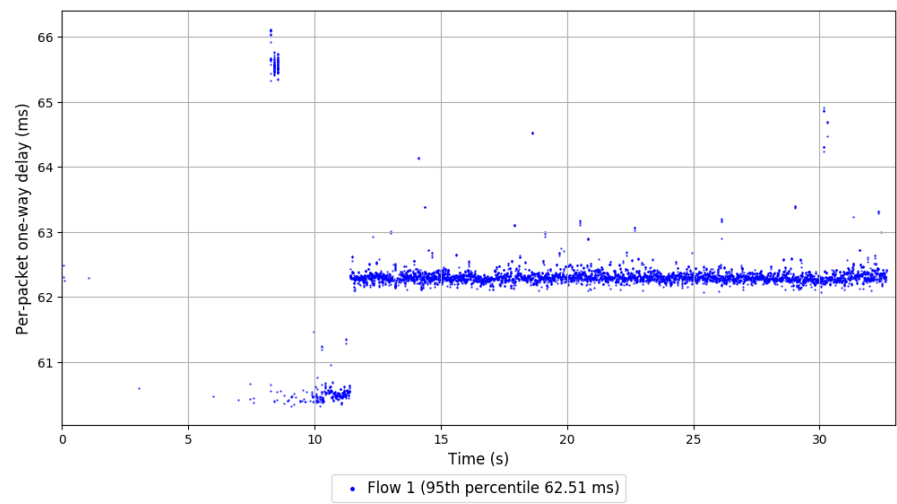
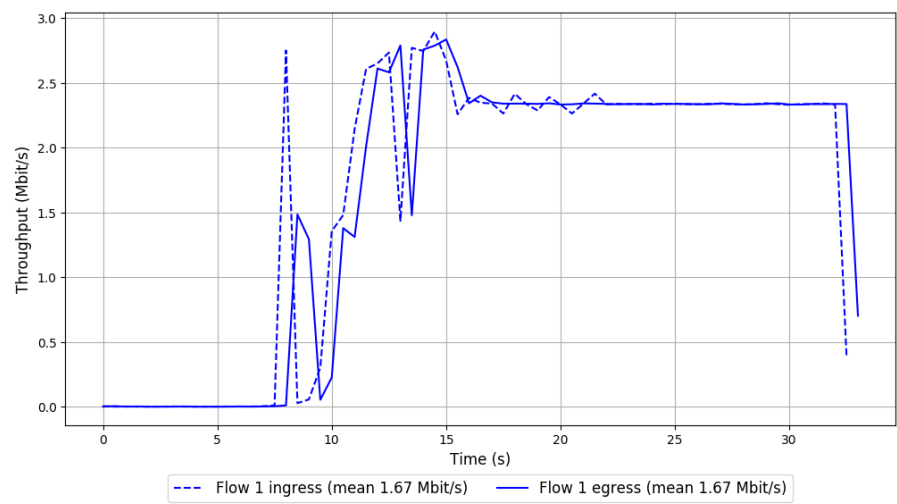


```
Run 1: Statistics of WebRTC media

Start at: 2018-06-19 05:49:39
End at: 2018-06-19 05:50:09
Local clock offset: -0.04 ms
Remote clock offset: -1.361 ms

# Below is generated by plot.py at 2018-06-19 10:26:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.67 Mbit/s
95th percentile per-packet one-way delay: 62.506 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.67 Mbit/s
95th percentile per-packet one-way delay: 62.506 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-06-19 06:09:31

End at: 2018-06-19 06:10:01

Local clock offset: 0.05 ms

Remote clock offset: 1.487 ms

Below is generated by plot.py at 2018-06-19 10:26:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 65.025 ms

Loss rate: 0.00%

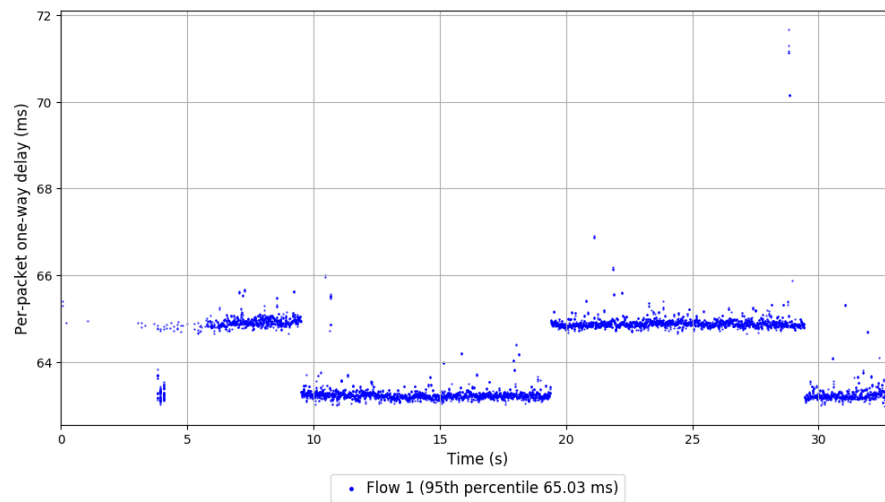
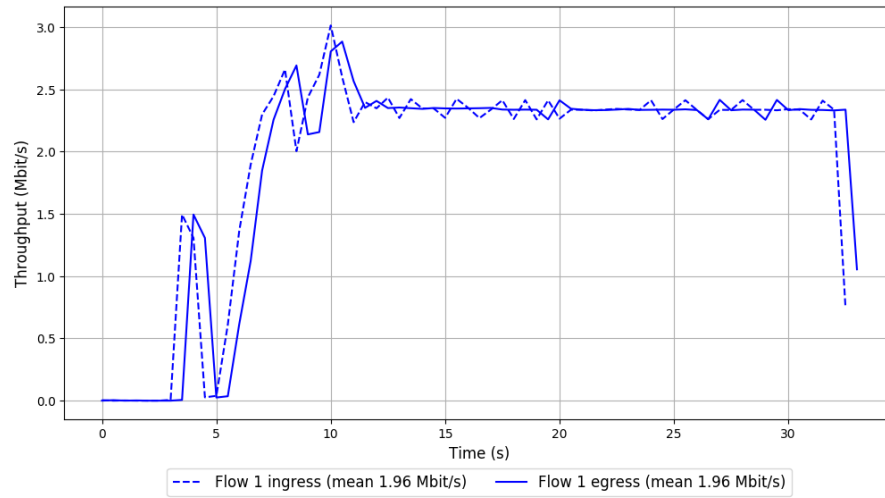
-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 65.025 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-06-19 06:29:01

End at: 2018-06-19 06:29:31

Local clock offset: -0.013 ms

Remote clock offset: 0.156 ms

Below is generated by plot.py at 2018-06-19 10:26:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 66.968 ms

Loss rate: 0.00%

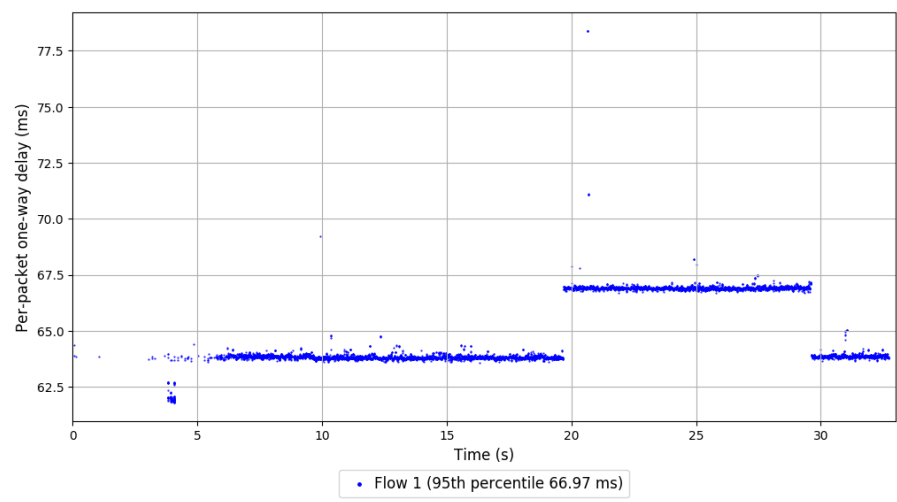
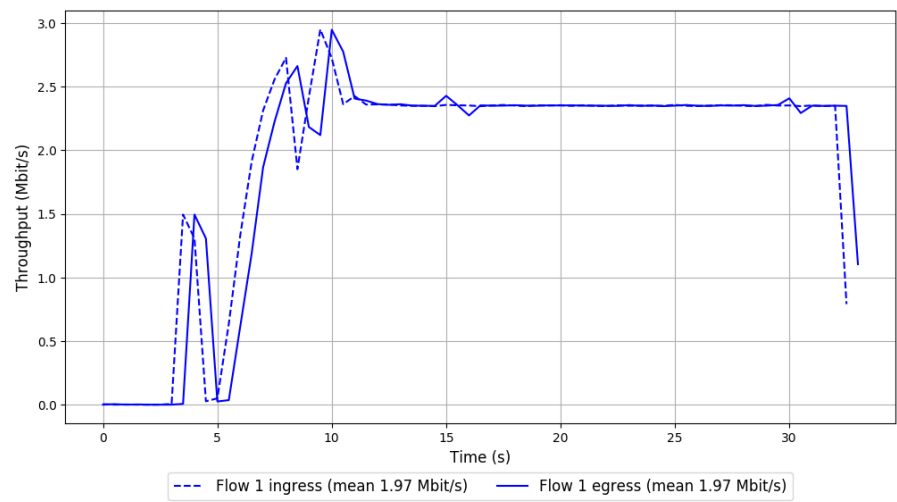
-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 66.968 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-06-19 06:49:14

End at: 2018-06-19 06:49:44

Local clock offset: -0.101 ms

Remote clock offset: 0.314 ms

Below is generated by plot.py at 2018-06-19 10:26:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 64.142 ms

Loss rate: 0.00%

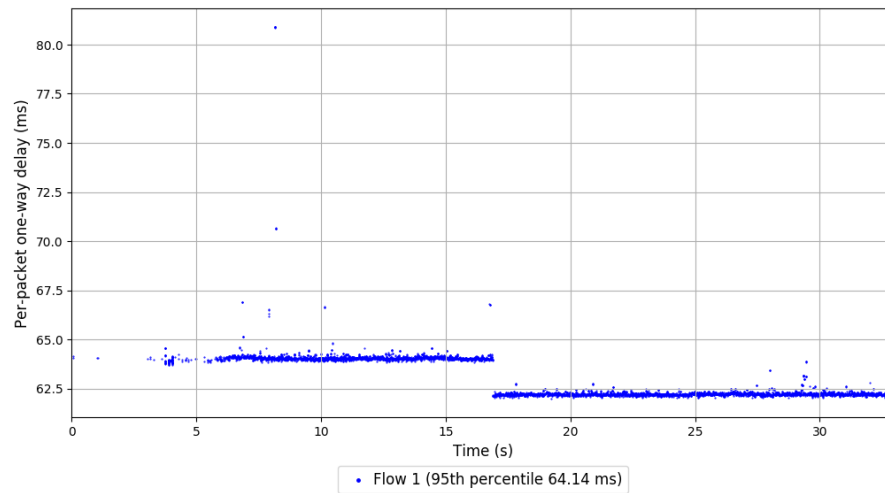
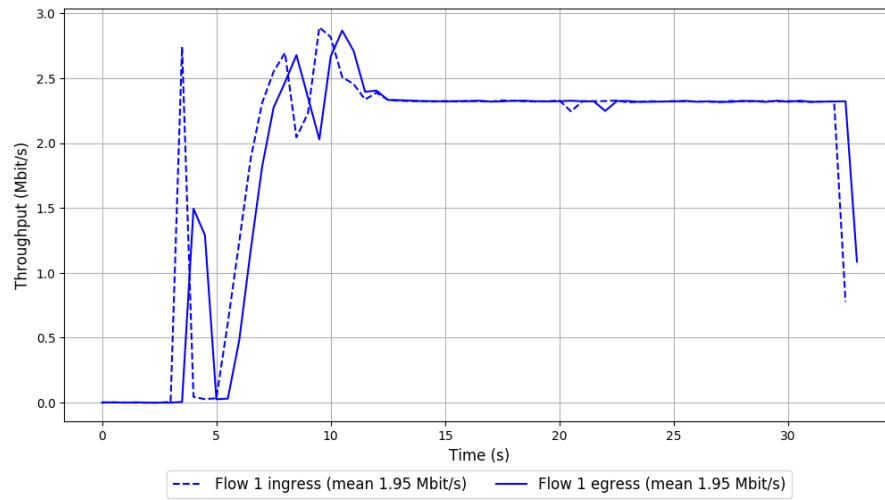
-- Flow 1:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 64.142 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

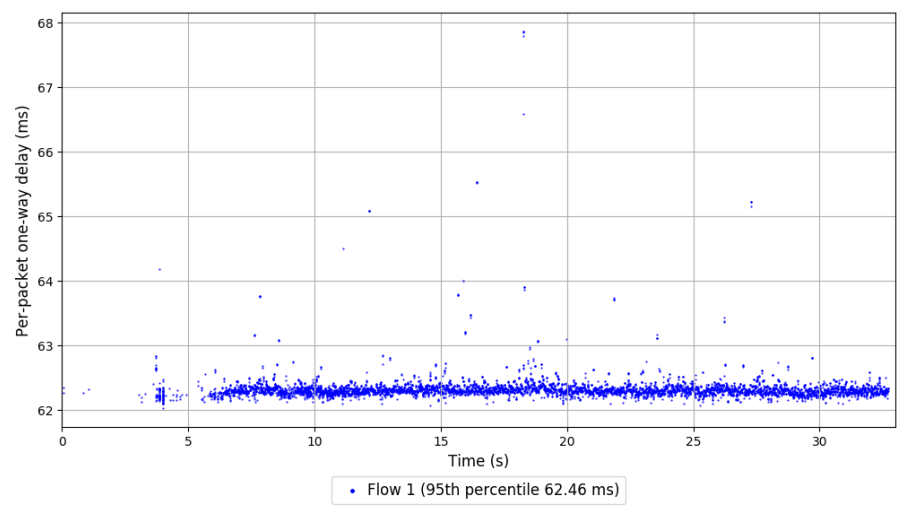
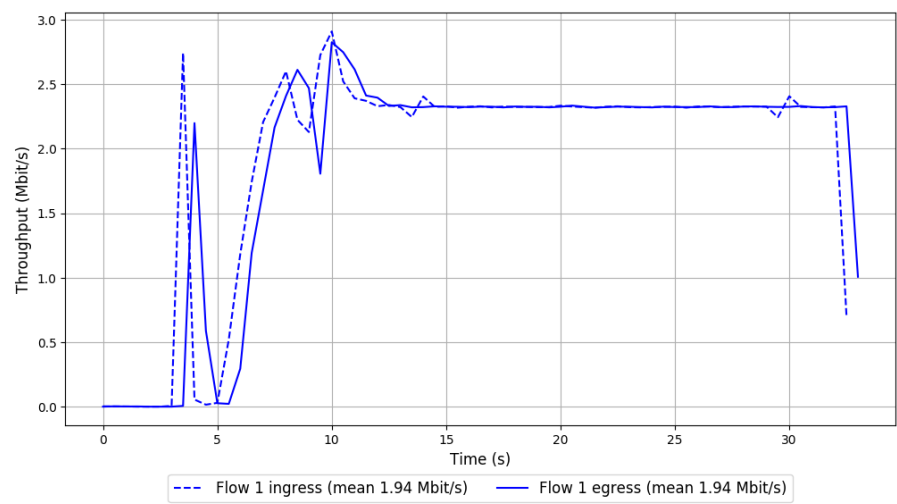


Run 5: Statistics of WebRTC media

Start at: 2018-06-19 07:09:26
End at: 2018-06-19 07:09:56
Local clock offset: -0.068 ms
Remote clock offset: -1.323 ms

Below is generated by plot.py at 2018-06-19 10:26:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 62.456 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 62.456 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-06-19 07:29:42

End at: 2018-06-19 07:30:12

Local clock offset: 0.01 ms

Remote clock offset: 0.118 ms

Below is generated by plot.py at 2018-06-19 10:26:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 63.872 ms

Loss rate: 0.00%

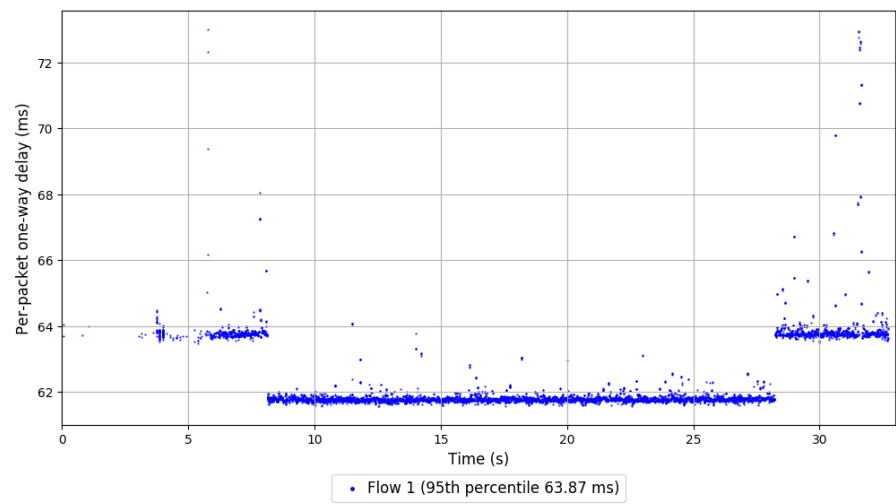
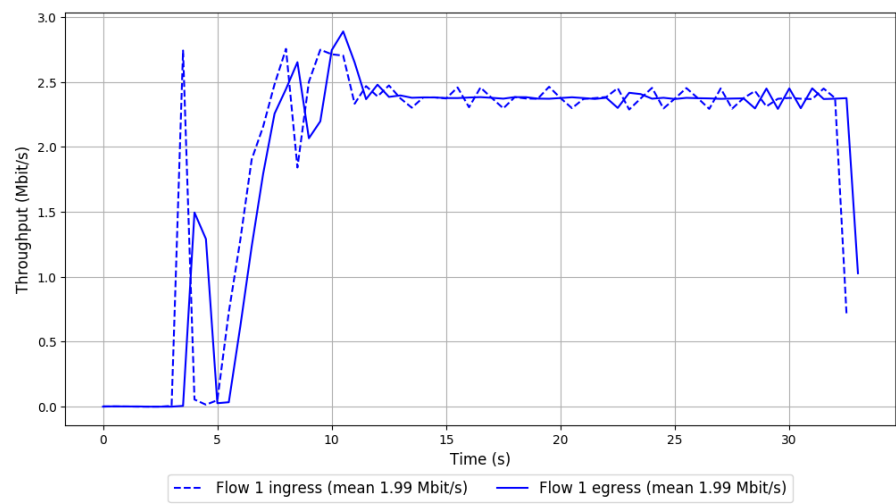
-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 63.872 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

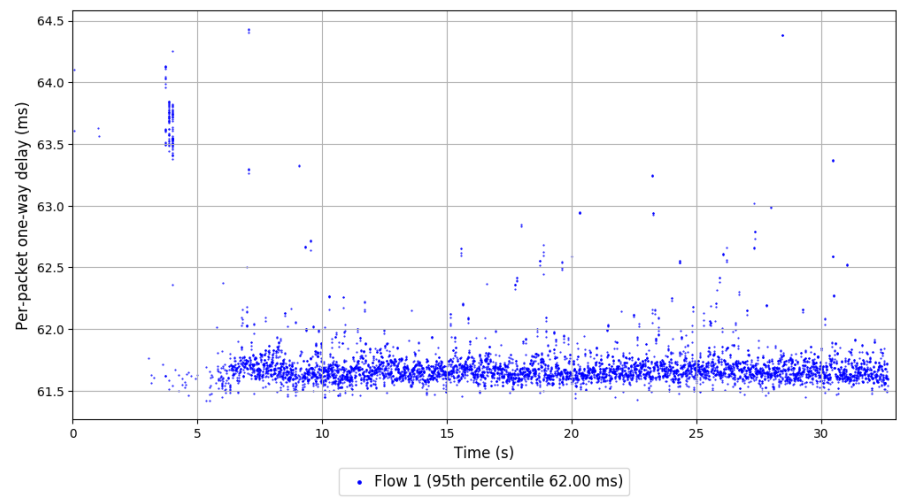
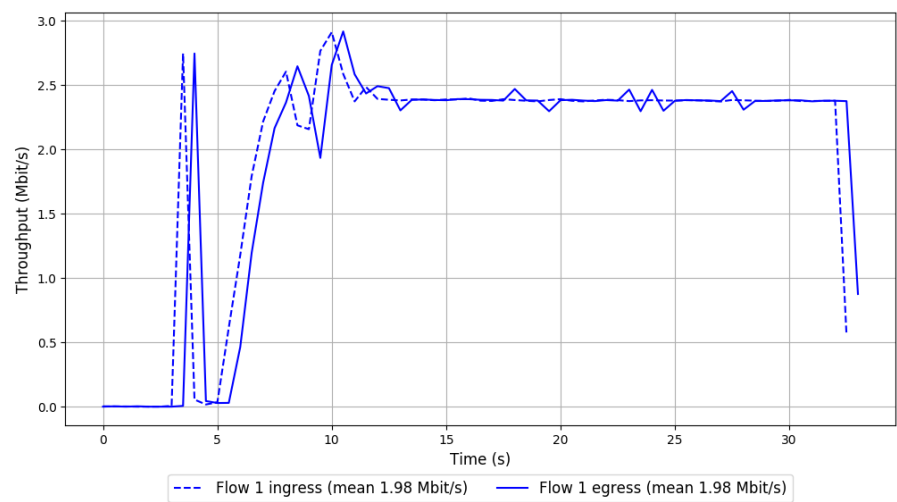


Run 7: Statistics of WebRTC media

Start at: 2018-06-19 07:49:48
End at: 2018-06-19 07:50:18
Local clock offset: 0.001 ms
Remote clock offset: -0.046 ms

Below is generated by plot.py at 2018-06-19 10:26:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 61.998 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 61.998 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

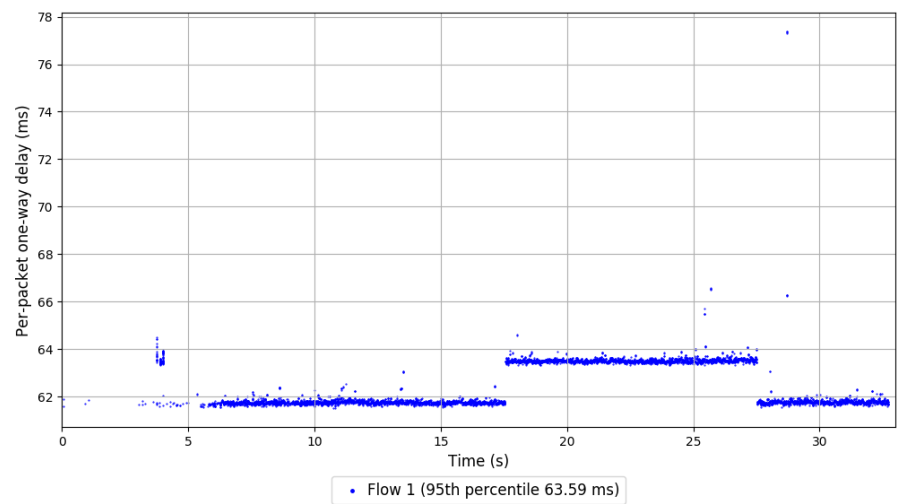
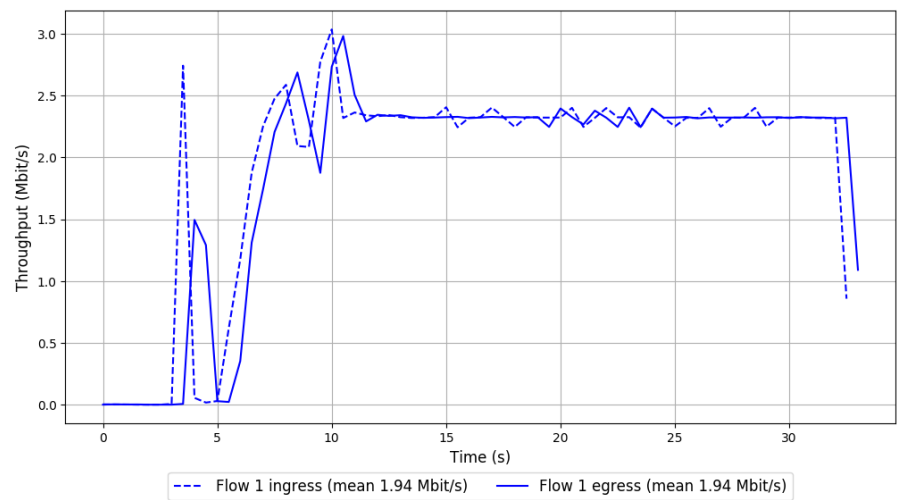


Run 8: Statistics of WebRTC media

Start at: 2018-06-19 08:09:53
End at: 2018-06-19 08:10:23
Local clock offset: -0.062 ms
Remote clock offset: -0.075 ms

Below is generated by plot.py at 2018-06-19 10:26:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 63.586 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 63.586 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

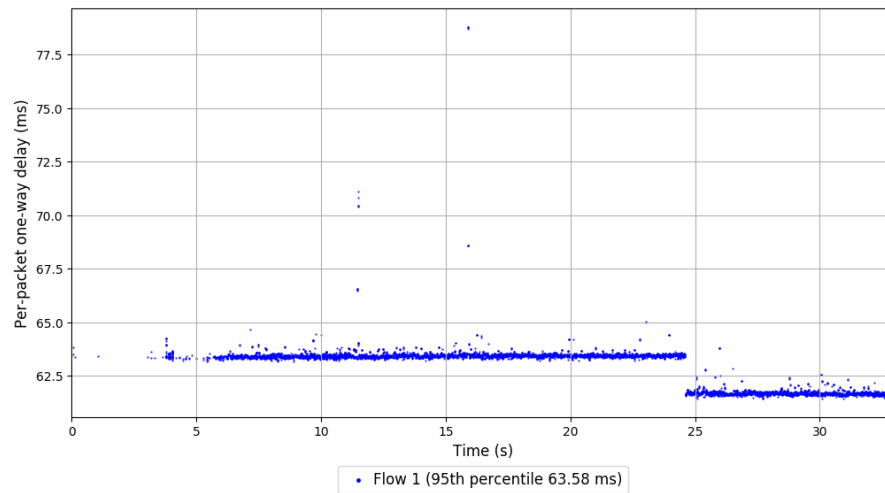
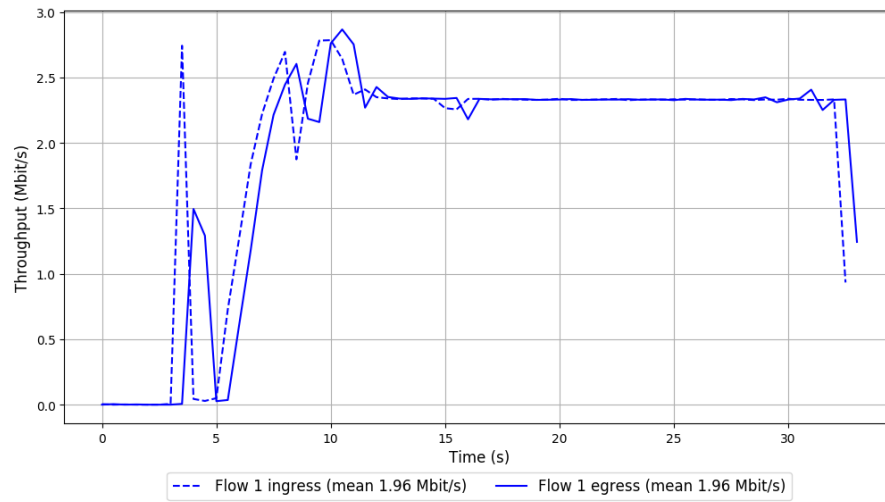


Run 9: Statistics of WebRTC media

Start at: 2018-06-19 08:30:06
End at: 2018-06-19 08:30:36
Local clock offset: 0.004 ms
Remote clock offset: -0.162 ms

Below is generated by plot.py at 2018-06-19 10:26:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 63.580 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 63.580 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-19 08:50:01
End at: 2018-06-19 08:50:31
Local clock offset: -0.025 ms
Remote clock offset: -0.095 ms

Below is generated by plot.py at 2018-06-19 10:26:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 63.691 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 63.691 ms
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

