

Pantheon Report

Generated at 2018-06-20 21:22:31 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

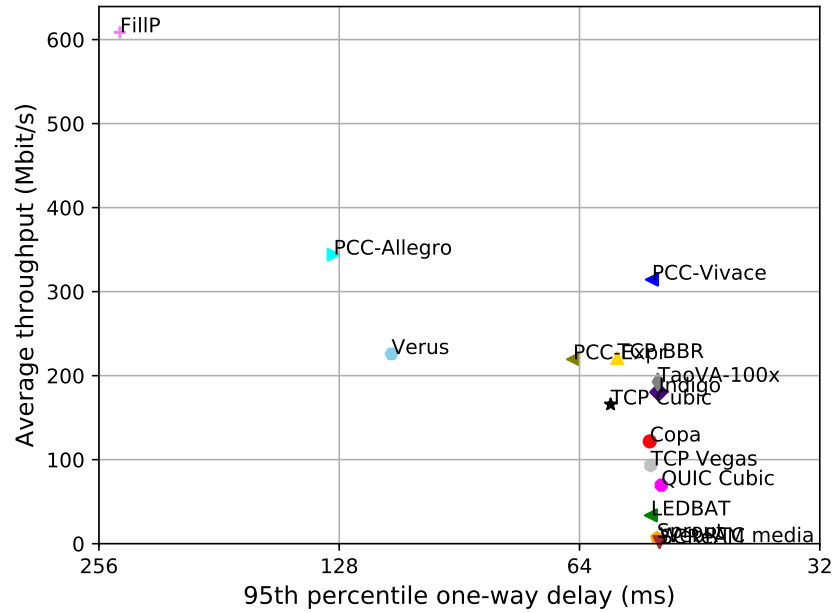
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

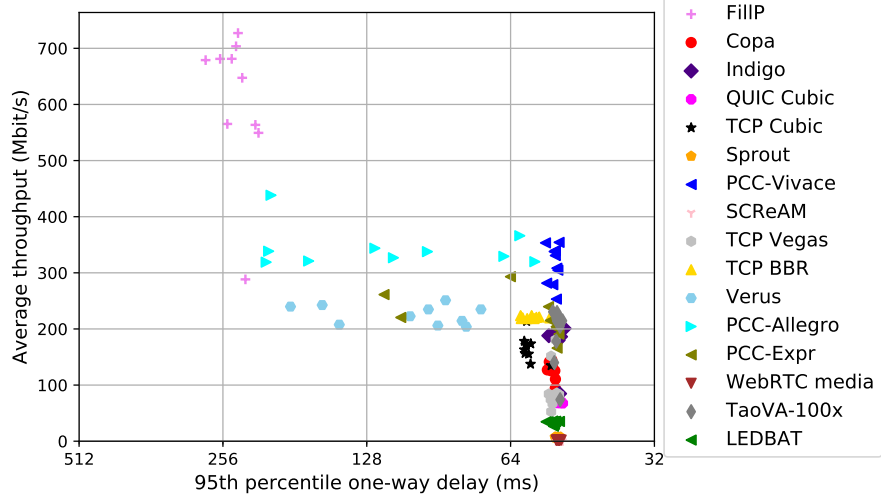
Git summary:

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

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



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



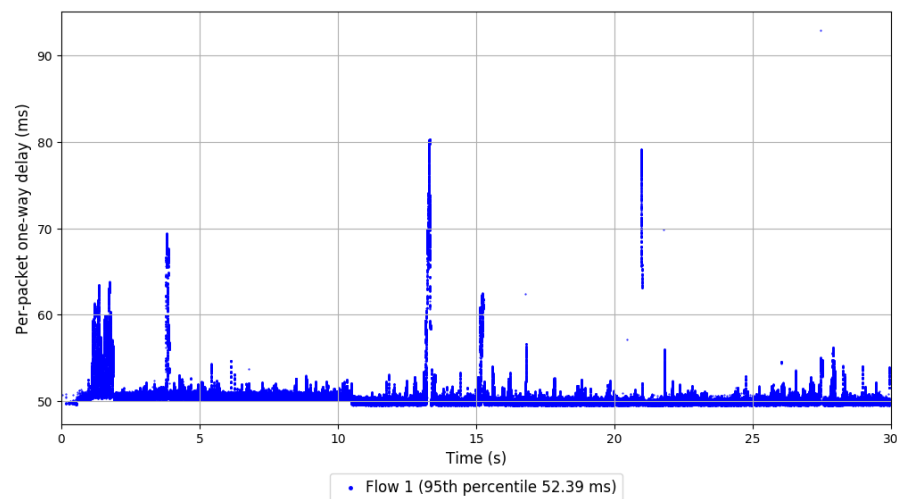
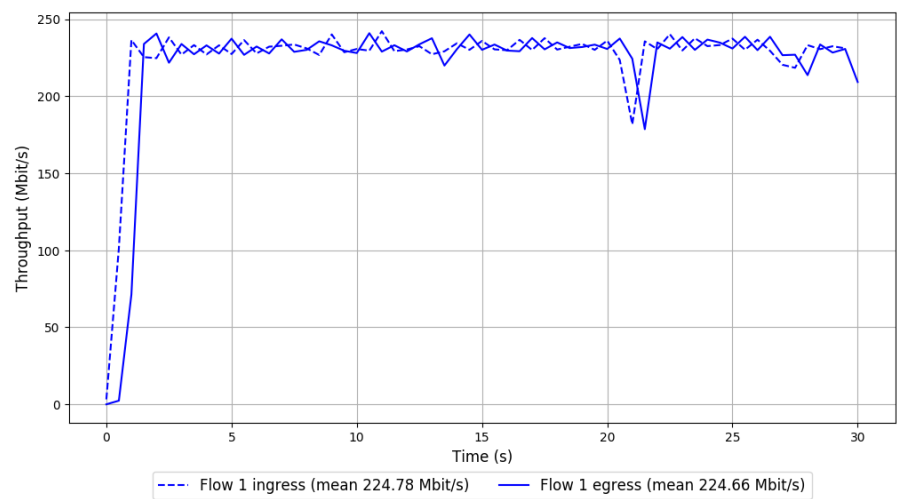
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	220.94	57.39	0.36
Copa	10	121.72	52.26	0.36
TCP Cubic	10	165.72	58.50	0.37
FillP	10	608.62	240.96	1.21
Indigo	9	180.34	50.93	0.37
LEDBAT	10	33.67	52.09	0.68
PCC-Allegro	10	344.04	130.10	1.72
PCC-Expr	10	219.53	65.20	0.57
QUIC Cubic	9	69.69	50.56	0.40
SCReAM	10	0.22	50.74	0.31
Sprout	10	6.77	51.19	0.35
TaoVA-100x	10	192.66	51.07	0.40
TCP Vegas	10	92.99	52.13	0.32
Verus	10	225.79	110.09	0.55
PCC-Vivace	10	314.25	51.94	0.41
WebRTC media	10	1.92	50.82	0.38

Run 1: Statistics of TCP BBR

Start at: 2018-06-20 16:55:58
End at: 2018-06-20 16:56:28
Local clock offset: -0.007 ms
Remote clock offset: -0.105 ms

Below is generated by plot.py at 2018-06-20 20:12:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 224.66 Mbit/s
95th percentile per-packet one-way delay: 52.389 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 224.66 Mbit/s
95th percentile per-packet one-way delay: 52.389 ms
Loss rate: 0.38%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-06-20 17:15:53

End at: 2018-06-20 17:16:23

Local clock offset: 0.211 ms

Remote clock offset: -0.078 ms

Below is generated by plot.py at 2018-06-20 20:12:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.66 Mbit/s

95th percentile per-packet one-way delay: 56.521 ms

Loss rate: 0.36%

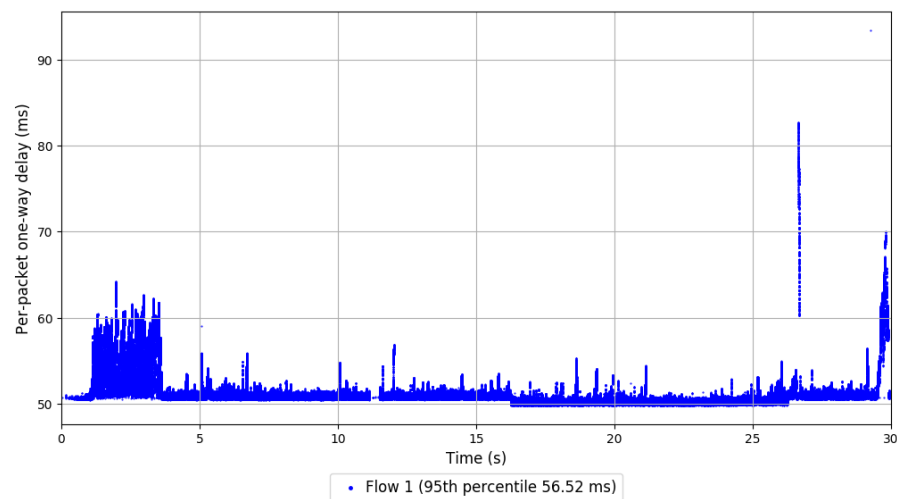
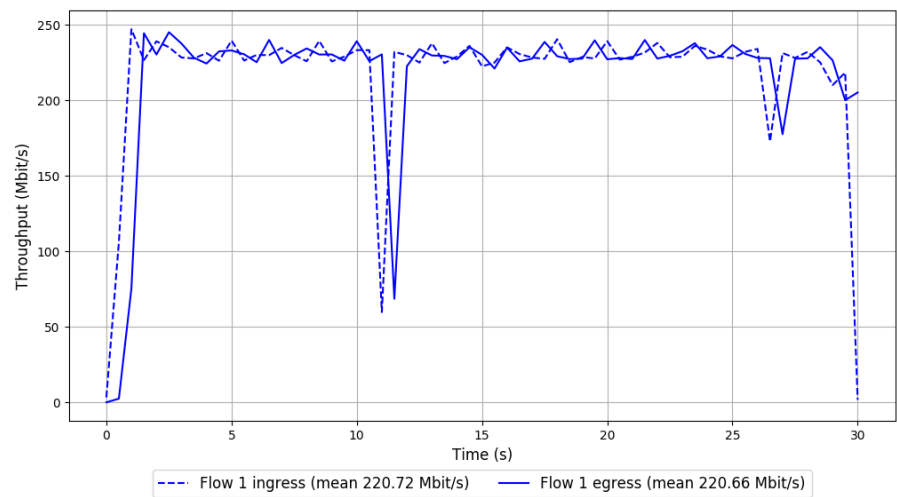
-- Flow 1:

Average throughput: 220.66 Mbit/s

95th percentile per-packet one-way delay: 56.521 ms

Loss rate: 0.36%

Run 2: Report of TCP BBR — Data Link

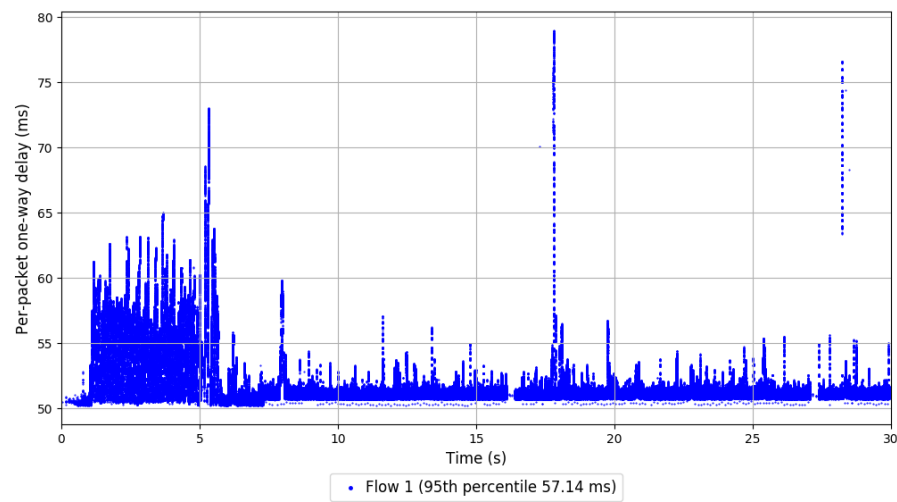
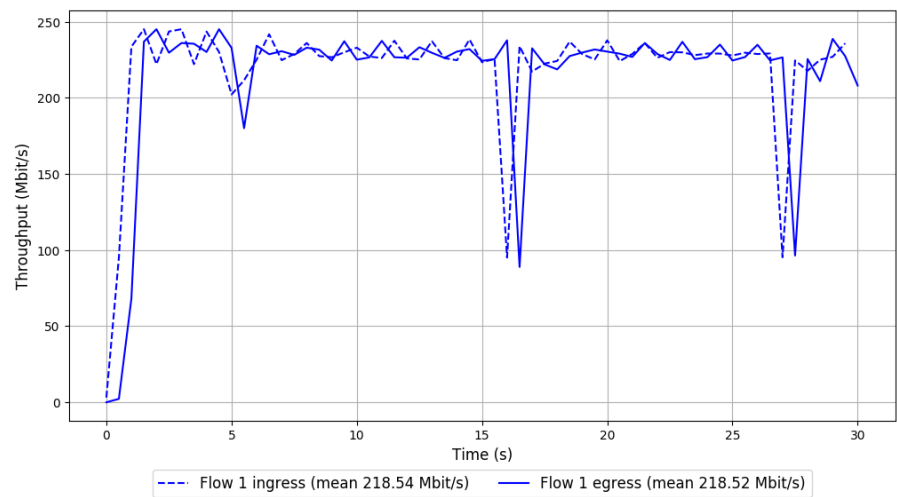


Run 3: Statistics of TCP BBR

Start at: 2018-06-20 17:36:01
End at: 2018-06-20 17:36:31
Local clock offset: 0.07 ms
Remote clock offset: -0.046 ms

Below is generated by plot.py at 2018-06-20 20:12:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 218.52 Mbit/s
95th percentile per-packet one-way delay: 57.144 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 218.52 Mbit/s
95th percentile per-packet one-way delay: 57.144 ms
Loss rate: 0.35%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-06-20 17:56:02

End at: 2018-06-20 17:56:32

Local clock offset: 0.031 ms

Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-06-20 20:12:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.25 Mbit/s

95th percentile per-packet one-way delay: 55.749 ms

Loss rate: 0.34%

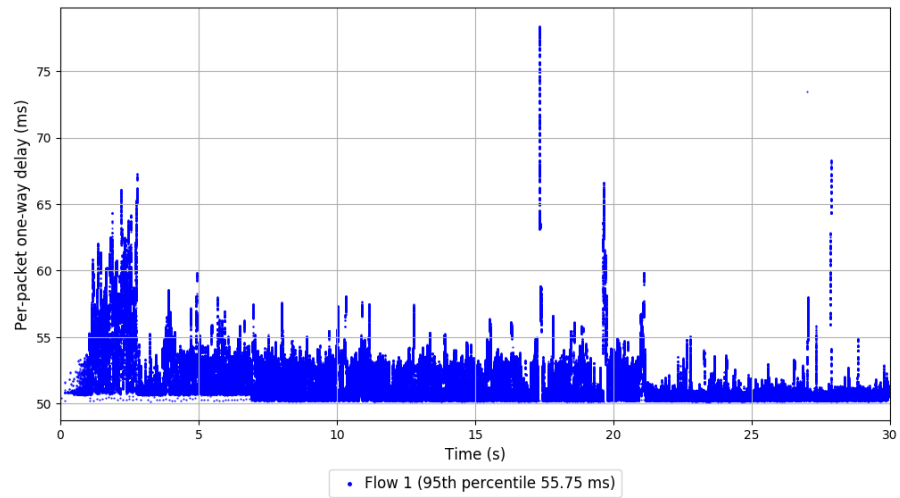
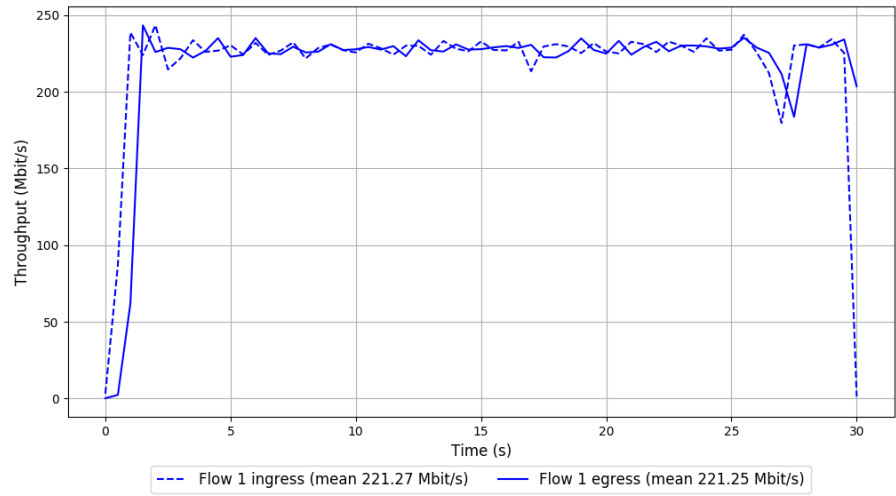
-- Flow 1:

Average throughput: 221.25 Mbit/s

95th percentile per-packet one-way delay: 55.749 ms

Loss rate: 0.34%

Run 4: Report of TCP BBR — Data Link

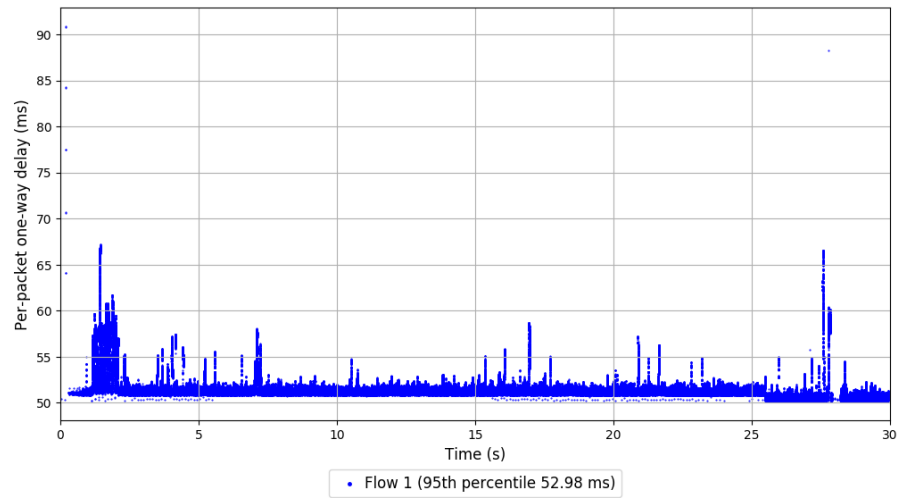
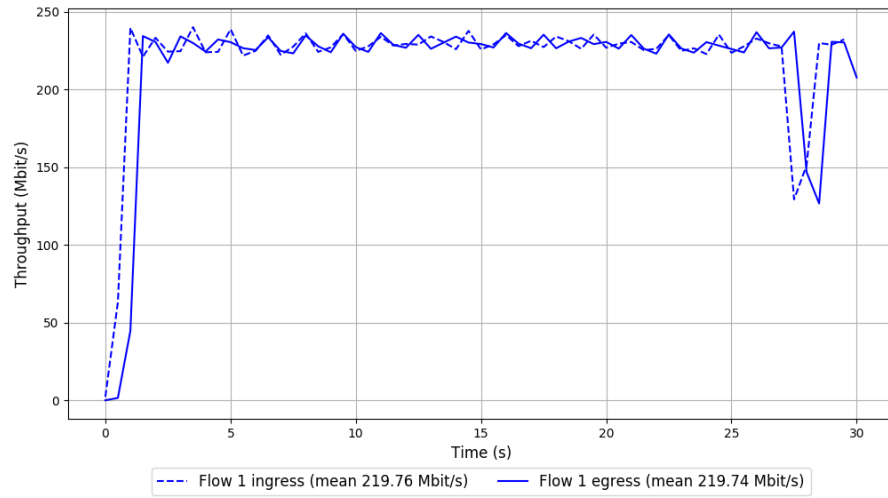


Run 5: Statistics of TCP BBR

Start at: 2018-06-20 18:16:13
End at: 2018-06-20 18:16:43
Local clock offset: -0.005 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2018-06-20 20:12:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 219.74 Mbit/s
95th percentile per-packet one-way delay: 52.980 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 219.74 Mbit/s
95th percentile per-packet one-way delay: 52.980 ms
Loss rate: 0.36%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-06-20 18:36:09

End at: 2018-06-20 18:36:39

Local clock offset: 0.032 ms

Remote clock offset: 0.164 ms

Below is generated by plot.py at 2018-06-20 20:12:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.74 Mbit/s

95th percentile per-packet one-way delay: 60.987 ms

Loss rate: 0.37%

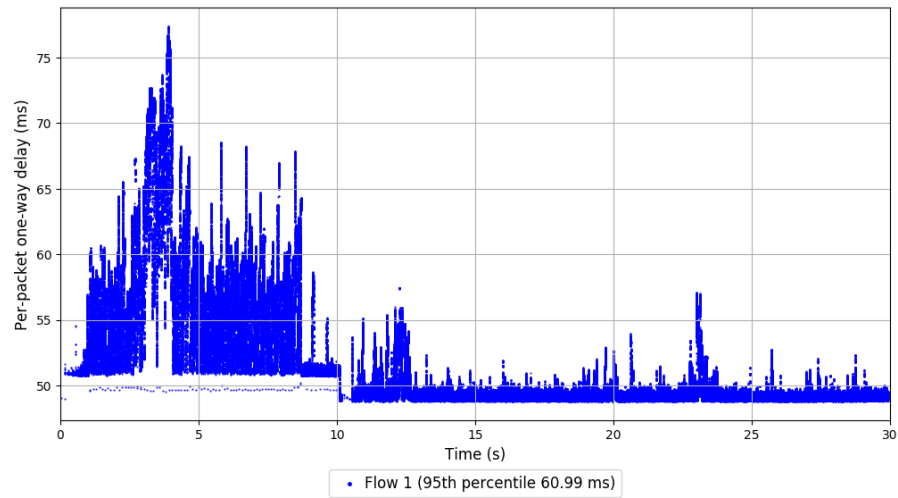
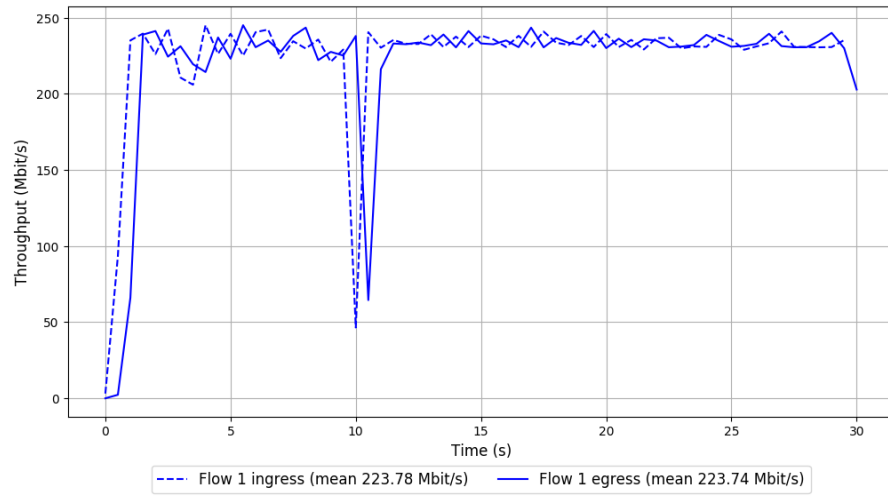
-- Flow 1:

Average throughput: 223.74 Mbit/s

95th percentile per-packet one-way delay: 60.987 ms

Loss rate: 0.37%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-06-20 18:56:07

End at: 2018-06-20 18:56:37

Local clock offset: 0.007 ms

Remote clock offset: 0.316 ms

Below is generated by plot.py at 2018-06-20 20:12:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.55 Mbit/s

95th percentile per-packet one-way delay: 60.778 ms

Loss rate: 0.35%

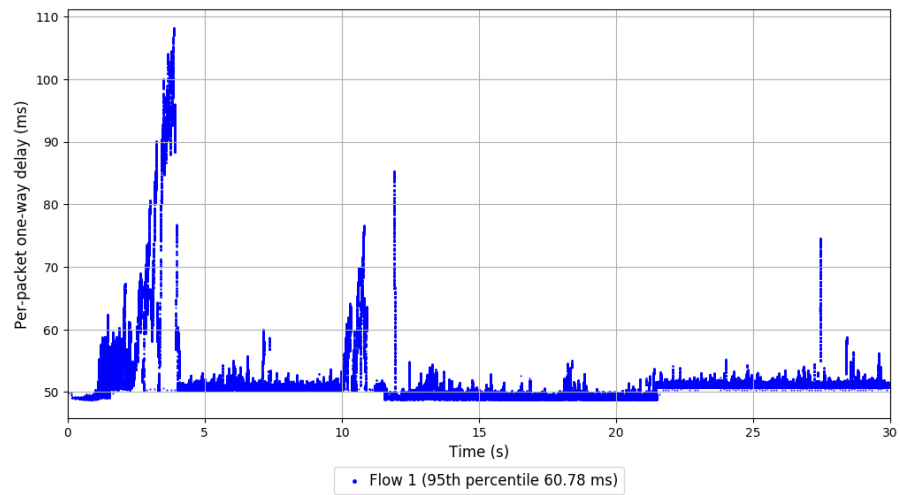
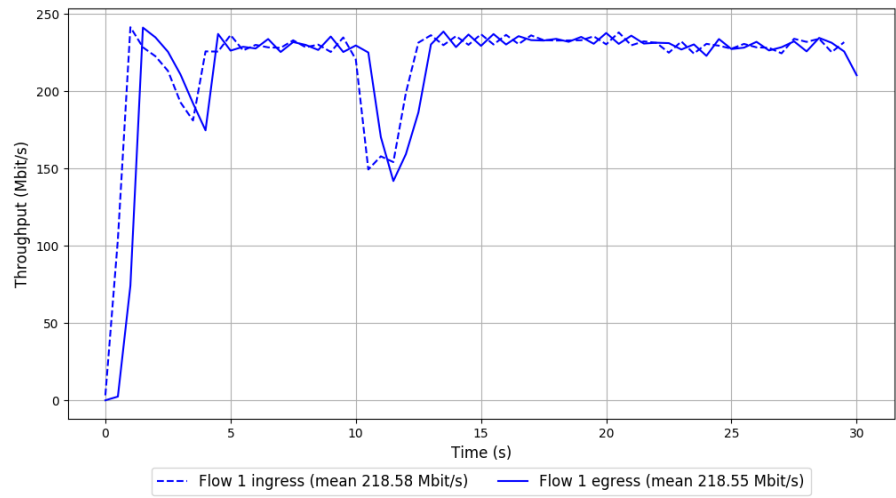
-- Flow 1:

Average throughput: 218.55 Mbit/s

95th percentile per-packet one-way delay: 60.778 ms

Loss rate: 0.35%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-06-20 19:16:01

End at: 2018-06-20 19:16:31

Local clock offset: -0.327 ms

Remote clock offset: 0.066 ms

Below is generated by plot.py at 2018-06-20 20:12:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.84 Mbit/s

95th percentile per-packet one-way delay: 57.829 ms

Loss rate: 0.37%

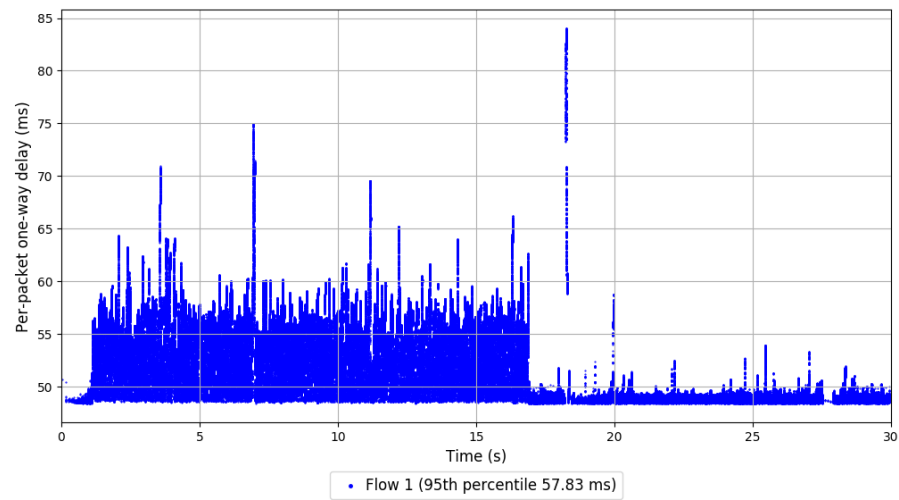
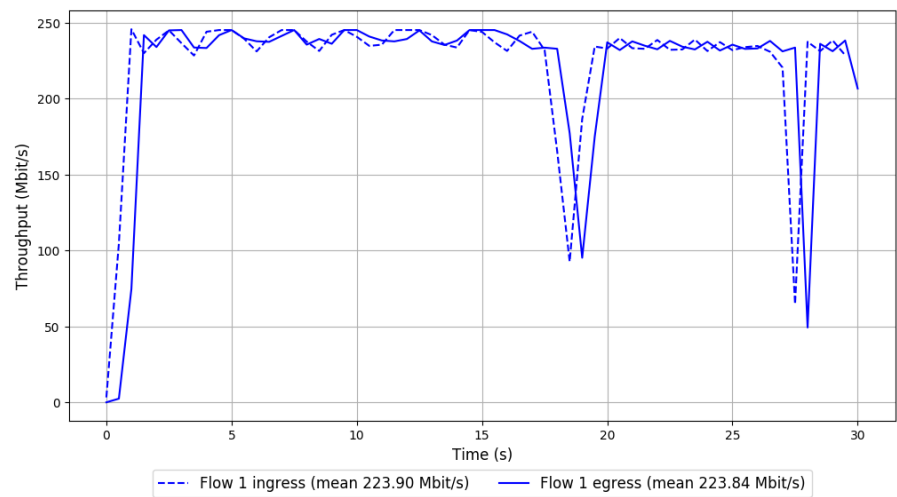
-- Flow 1:

Average throughput: 223.84 Mbit/s

95th percentile per-packet one-way delay: 57.829 ms

Loss rate: 0.37%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-06-20 19:35:57

End at: 2018-06-20 19:36:27

Local clock offset: 0.076 ms

Remote clock offset: -0.1 ms

Below is generated by plot.py at 2018-06-20 20:16:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.53 Mbit/s

95th percentile per-packet one-way delay: 59.085 ms

Loss rate: 0.37%

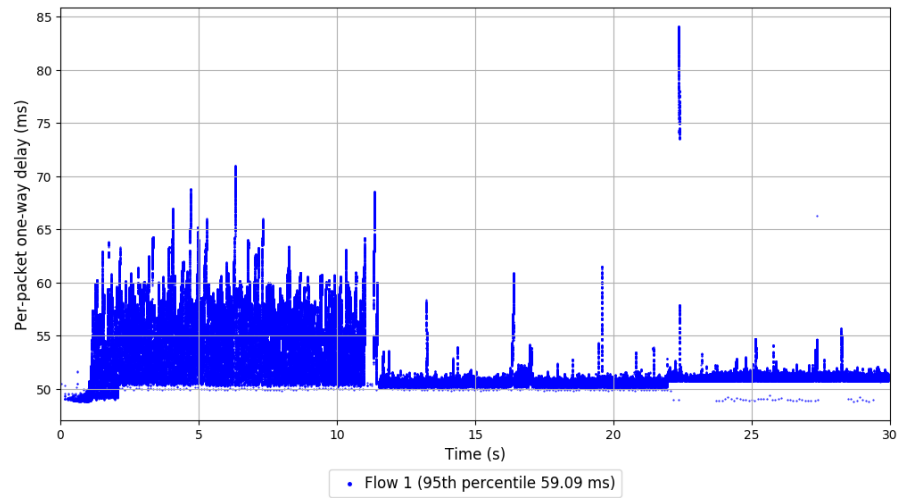
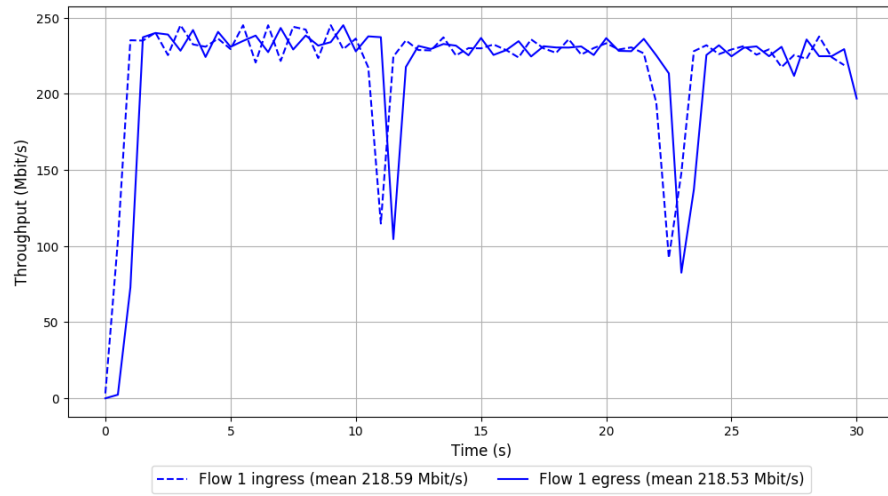
-- Flow 1:

Average throughput: 218.53 Mbit/s

95th percentile per-packet one-way delay: 59.085 ms

Loss rate: 0.37%

Run 9: Report of TCP BBR — Data Link

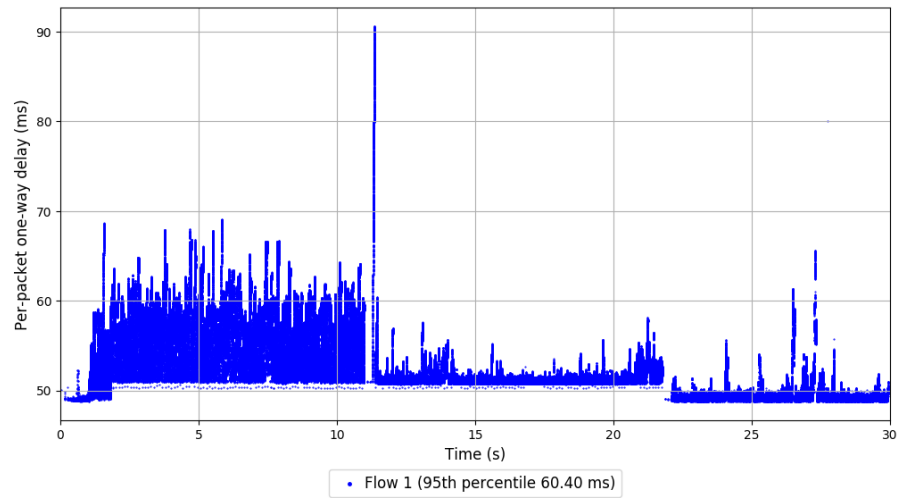
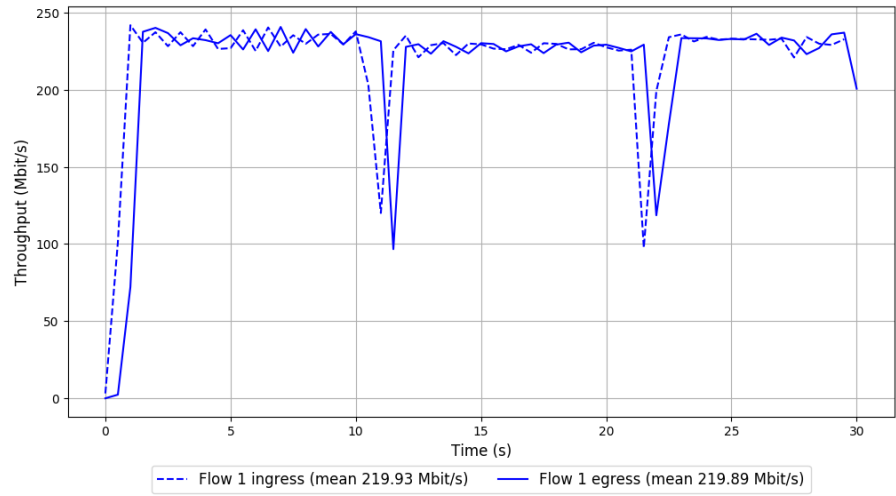


Run 10: Statistics of TCP BBR

Start at: 2018-06-20 19:55:57
End at: 2018-06-20 19:56:27
Local clock offset: -0.001 ms
Remote clock offset: -0.089 ms

Below is generated by plot.py at 2018-06-20 20:16:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 219.89 Mbit/s
95th percentile per-packet one-way delay: 60.403 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 219.89 Mbit/s
95th percentile per-packet one-way delay: 60.403 ms
Loss rate: 0.36%

Run 10: Report of TCP BBR — Data Link

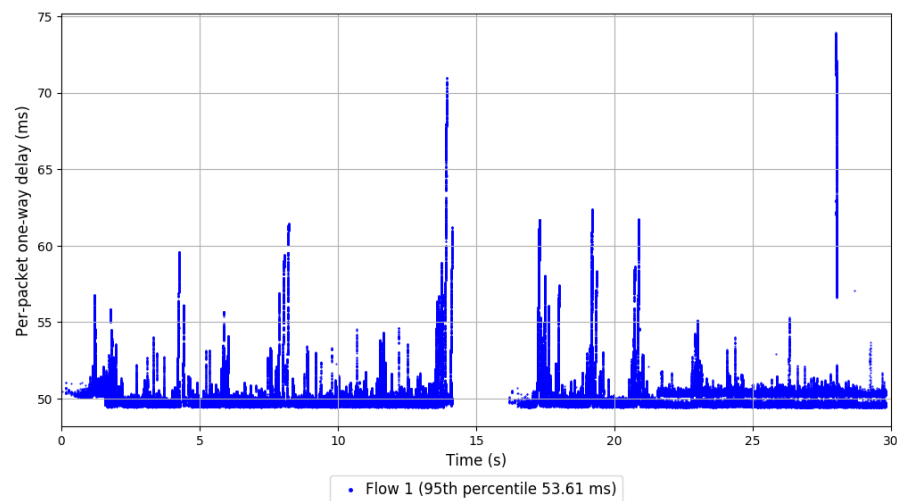
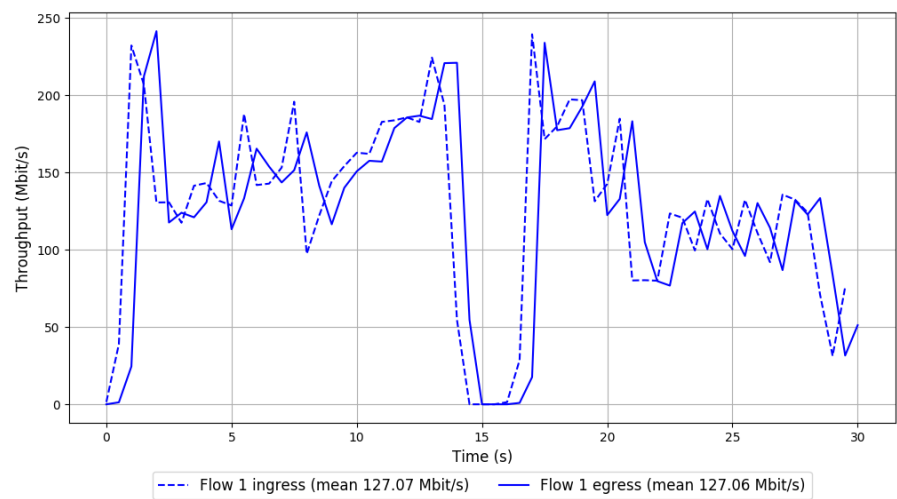


Run 1: Statistics of Copa

Start at: 2018-06-20 16:40:37
End at: 2018-06-20 16:41:07
Local clock offset: 0.138 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-06-20 20:16:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 127.06 Mbit/s
95th percentile per-packet one-way delay: 53.606 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 127.06 Mbit/s
95th percentile per-packet one-way delay: 53.606 ms
Loss rate: 0.35%

Run 1: Report of Copa — Data Link

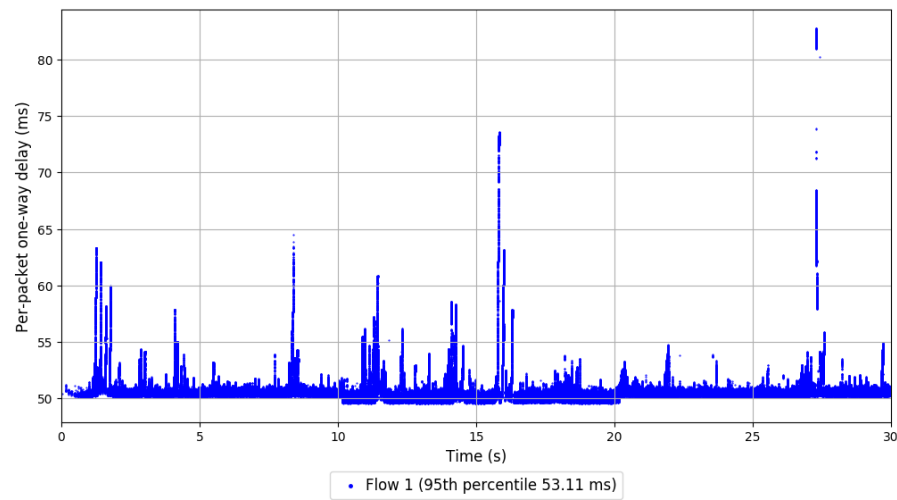
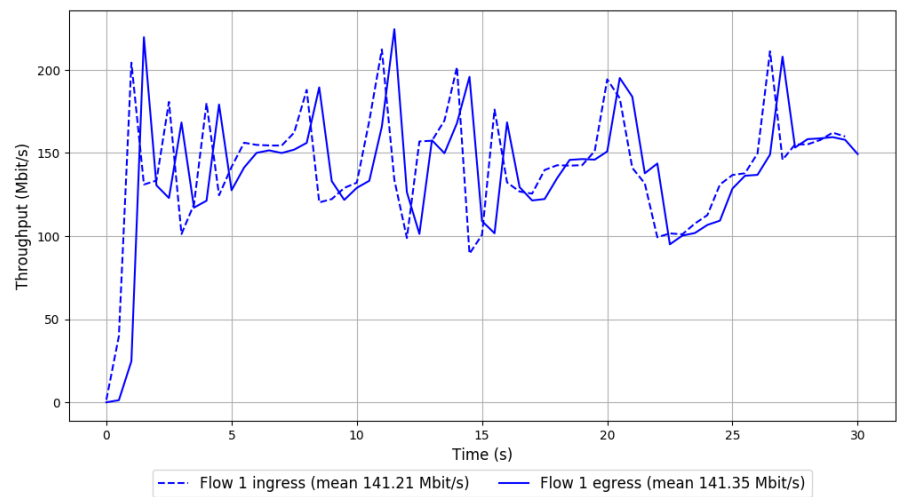


Run 2: Statistics of Copa

Start at: 2018-06-20 17:00:39
End at: 2018-06-20 17:01:09
Local clock offset: -0.014 ms
Remote clock offset: -0.107 ms

Below is generated by plot.py at 2018-06-20 20:17:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 141.35 Mbit/s
95th percentile per-packet one-way delay: 53.106 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 141.35 Mbit/s
95th percentile per-packet one-way delay: 53.106 ms
Loss rate: 0.24%

Run 2: Report of Copa — Data Link

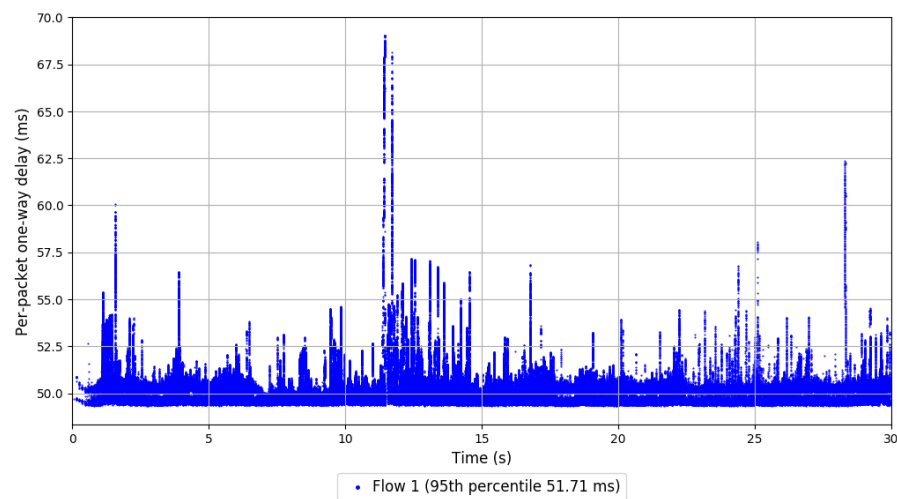
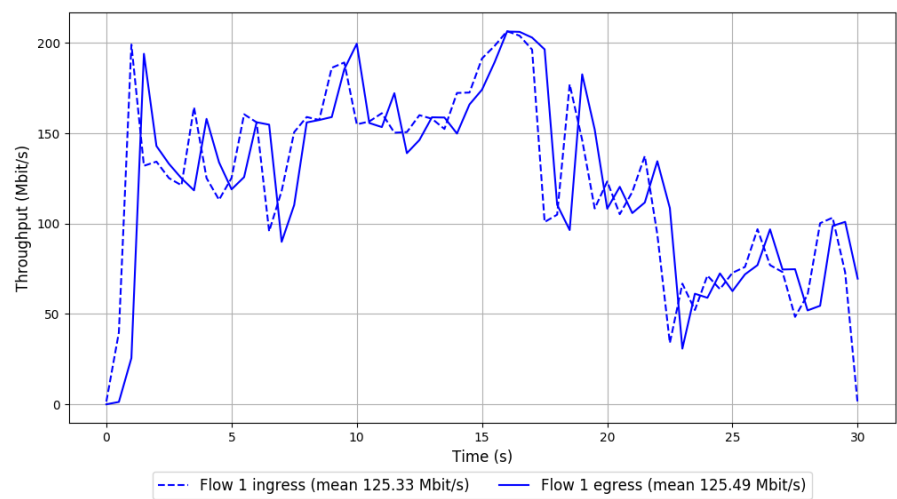


Run 3: Statistics of Copa

Start at: 2018-06-20 17:20:32
End at: 2018-06-20 17:21:02
Local clock offset: -0.108 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2018-06-20 20:17:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 125.49 Mbit/s
95th percentile per-packet one-way delay: 51.713 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 125.49 Mbit/s
95th percentile per-packet one-way delay: 51.713 ms
Loss rate: 0.21%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-06-20 17:40:41

End at: 2018-06-20 17:41:11

Local clock offset: 0.073 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-06-20 20:17:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 144.93 Mbit/s

95th percentile per-packet one-way delay: 52.483 ms

Loss rate: 0.39%

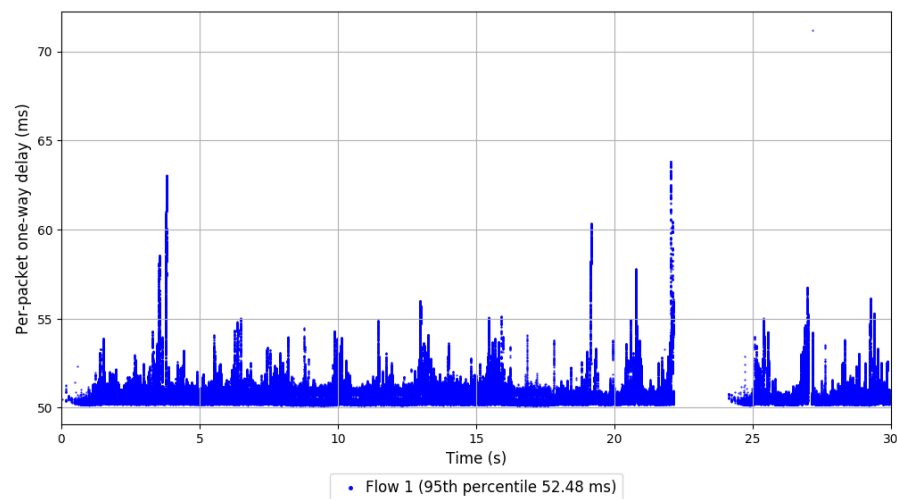
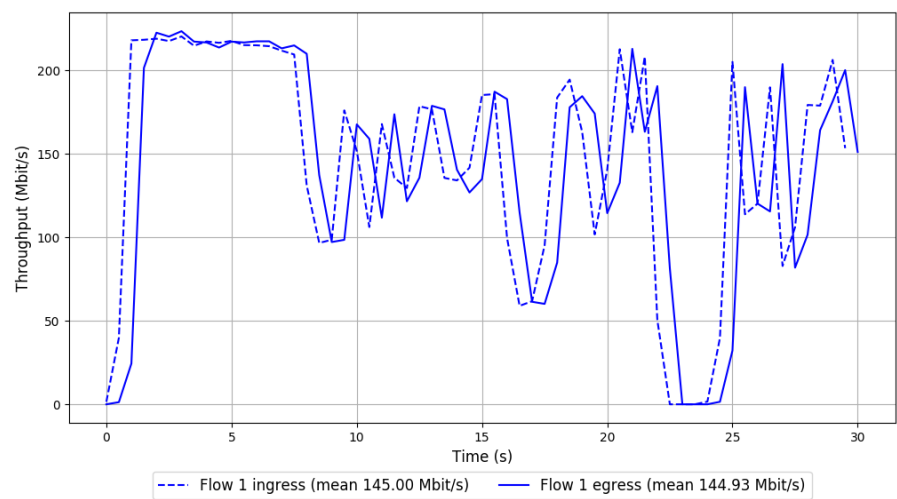
-- Flow 1:

Average throughput: 144.93 Mbit/s

95th percentile per-packet one-way delay: 52.483 ms

Loss rate: 0.39%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-06-20 18:00:45

End at: 2018-06-20 18:01:15

Local clock offset: 0.068 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-06-20 20:17:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 135.61 Mbit/s

95th percentile per-packet one-way delay: 52.319 ms

Loss rate: 0.29%

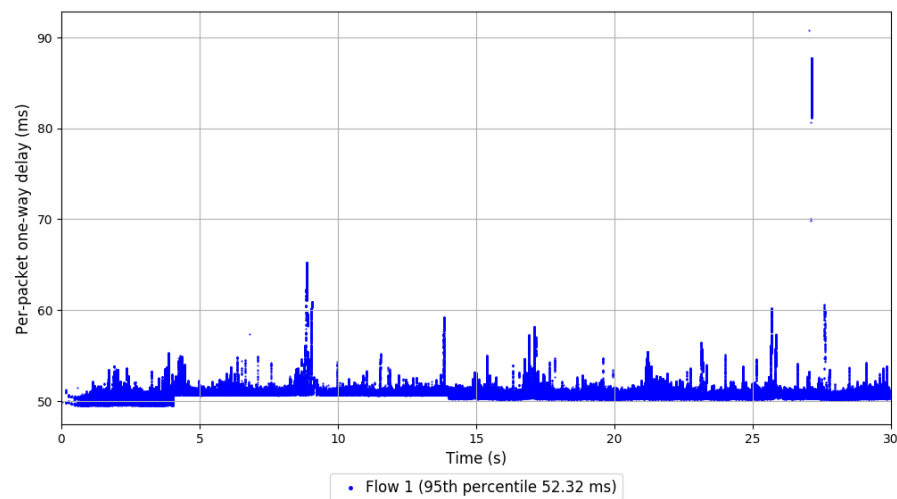
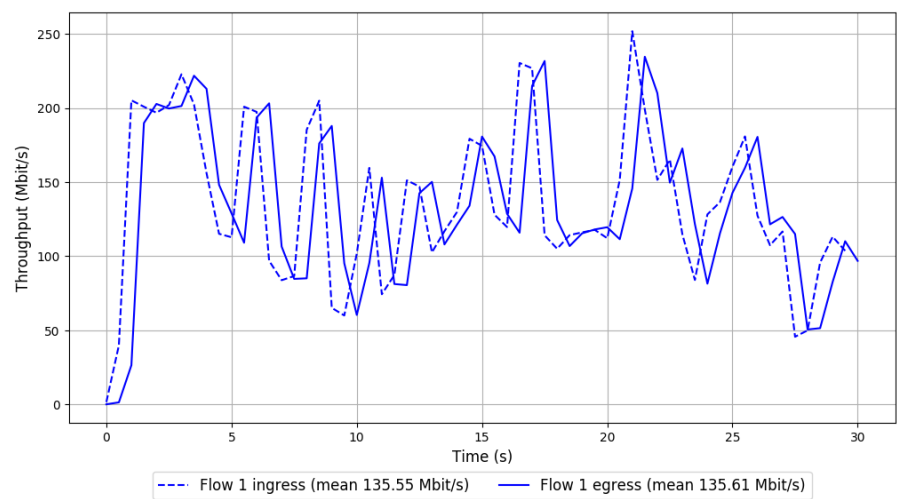
-- Flow 1:

Average throughput: 135.61 Mbit/s

95th percentile per-packet one-way delay: 52.319 ms

Loss rate: 0.29%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-06-20 18:20:53

End at: 2018-06-20 18:21:23

Local clock offset: -0.037 ms

Remote clock offset: 0.0 ms

Below is generated by plot.py at 2018-06-20 20:17:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 125.35 Mbit/s

95th percentile per-packet one-way delay: 52.583 ms

Loss rate: 0.49%

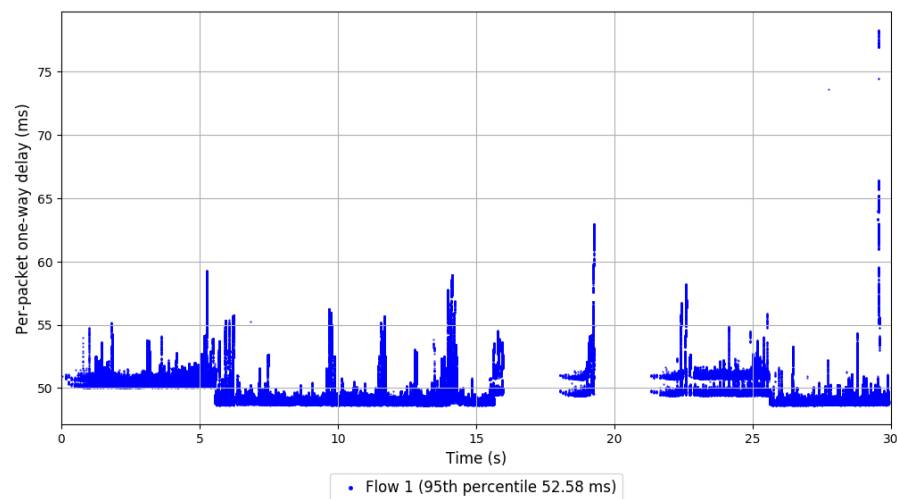
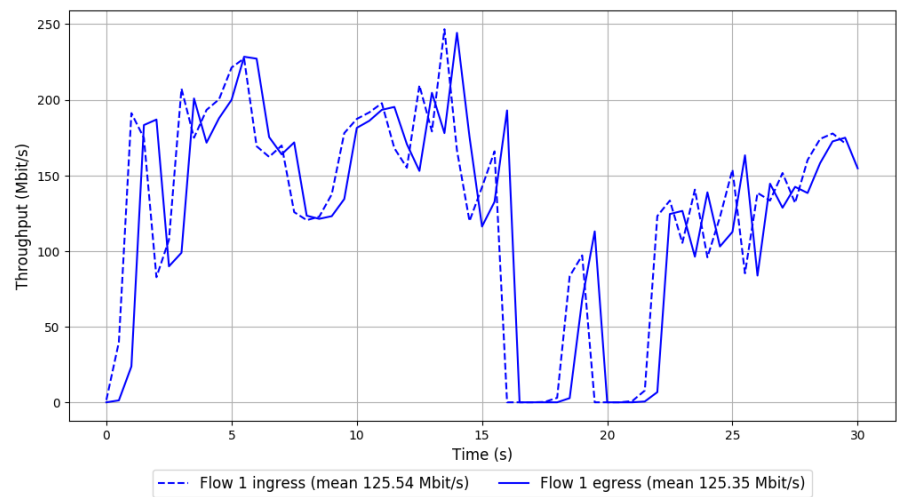
-- Flow 1:

Average throughput: 125.35 Mbit/s

95th percentile per-packet one-way delay: 52.583 ms

Loss rate: 0.49%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-06-20 18:40:48

End at: 2018-06-20 18:41:18

Local clock offset: 0.047 ms

Remote clock offset: 0.224 ms

Below is generated by plot.py at 2018-06-20 20:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 110.52 Mbit/s

95th percentile per-packet one-way delay: 51.563 ms

Loss rate: 0.49%

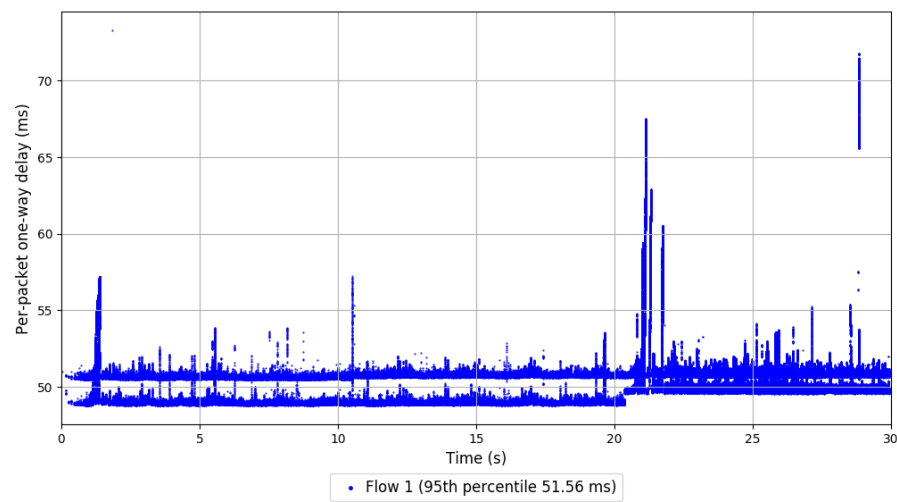
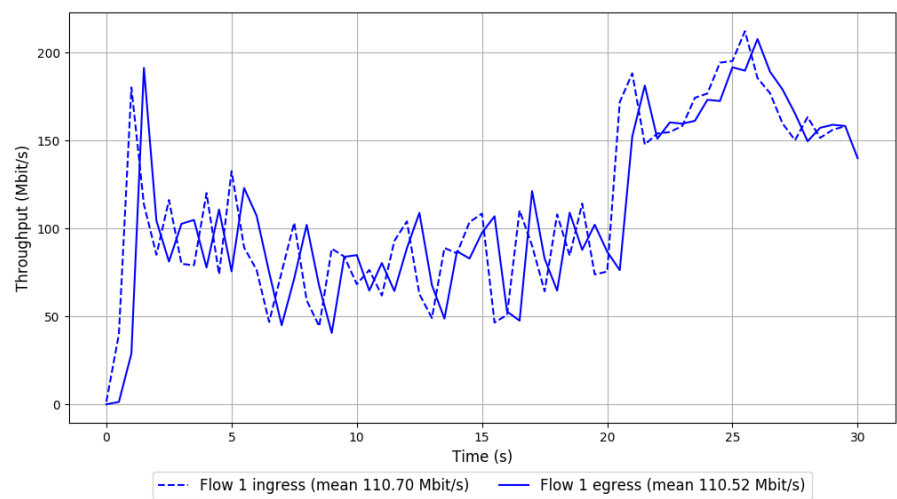
-- Flow 1:

Average throughput: 110.52 Mbit/s

95th percentile per-packet one-way delay: 51.563 ms

Loss rate: 0.49%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-06-20 19:00:47

End at: 2018-06-20 19:01:17

Local clock offset: -0.018 ms

Remote clock offset: 0.391 ms

Below is generated by plot.py at 2018-06-20 20:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.04 Mbit/s

95th percentile per-packet one-way delay: 51.178 ms

Loss rate: 0.31%

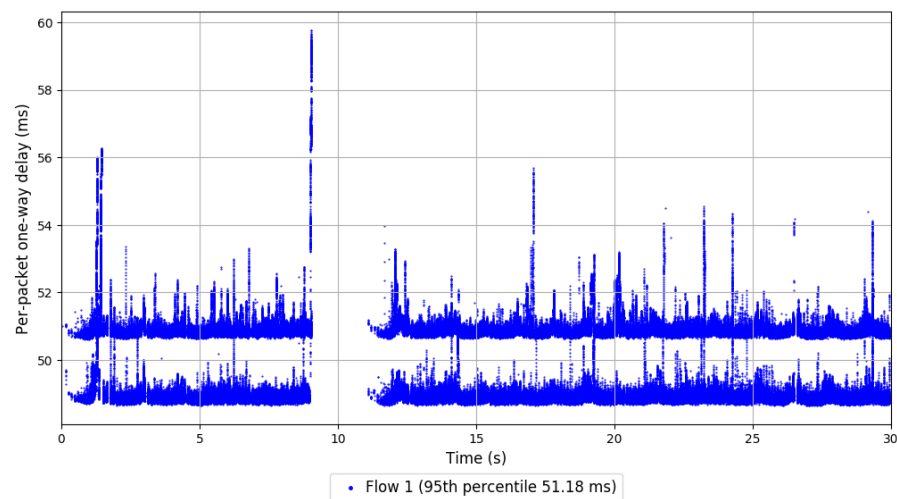
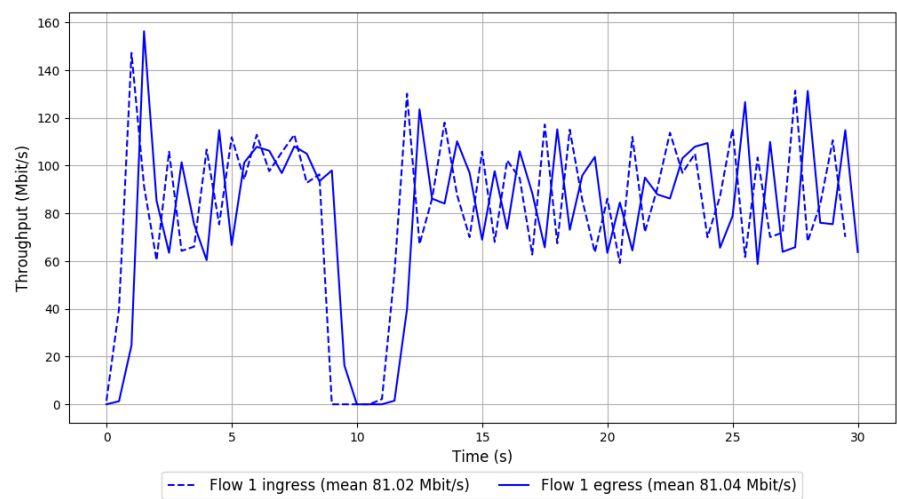
-- Flow 1:

Average throughput: 81.04 Mbit/s

95th percentile per-packet one-way delay: 51.178 ms

Loss rate: 0.31%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-06-20 19:20:40

End at: 2018-06-20 19:21:10

Local clock offset: -0.357 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2018-06-20 20:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.55 Mbit/s

95th percentile per-packet one-way delay: 51.599 ms

Loss rate: 0.55%

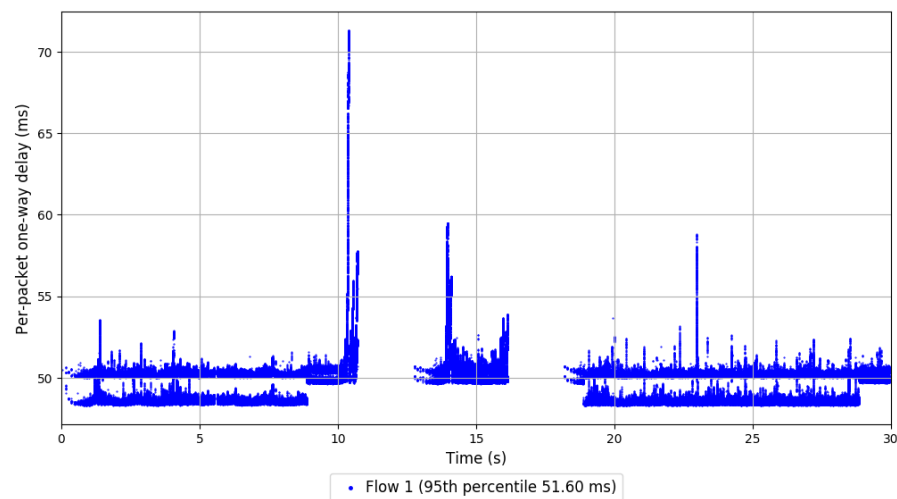
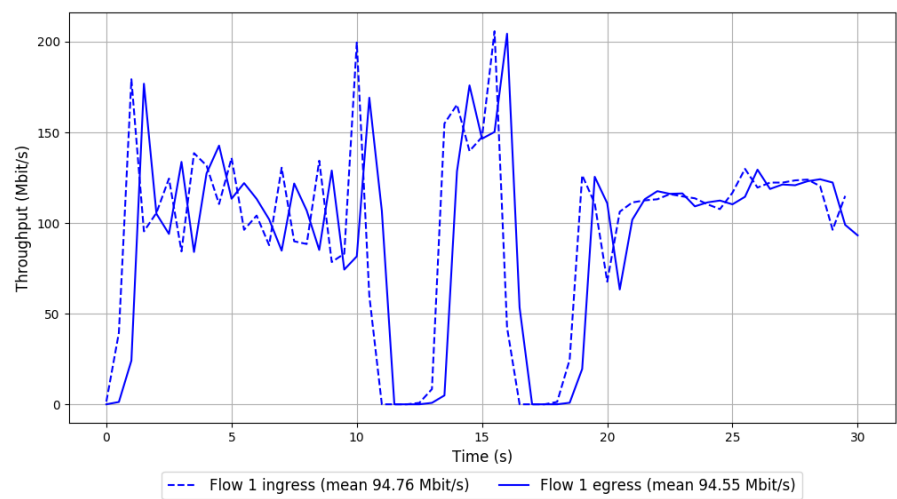
-- Flow 1:

Average throughput: 94.55 Mbit/s

95th percentile per-packet one-way delay: 51.599 ms

Loss rate: 0.55%

Run 9: Report of Copa — Data Link

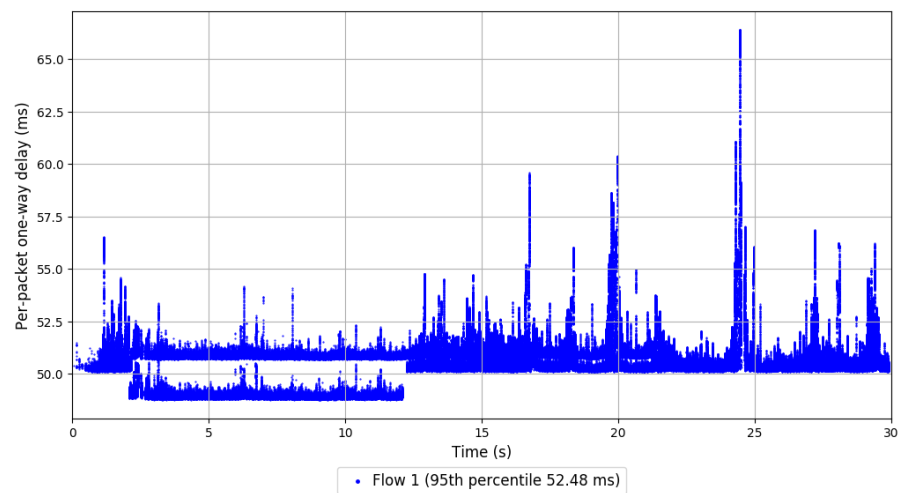
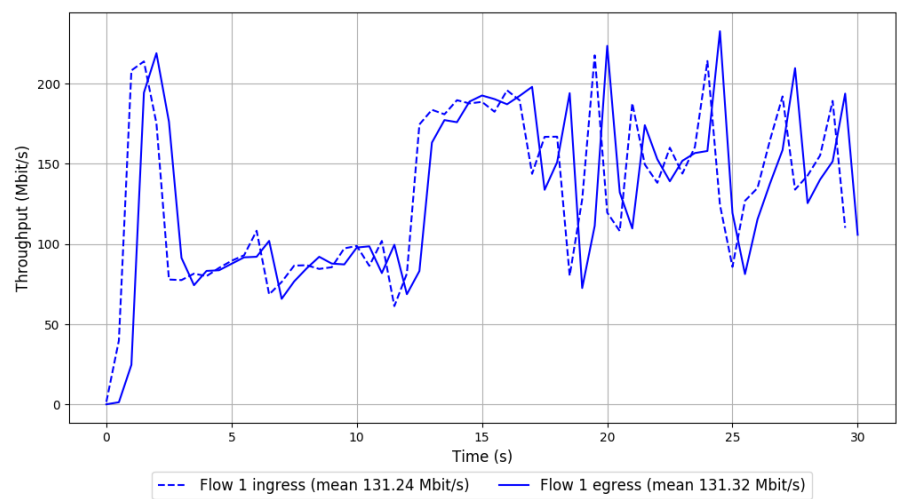


Run 10: Statistics of Copa

Start at: 2018-06-20 19:40:37
End at: 2018-06-20 19:41:07
Local clock offset: 0.053 ms
Remote clock offset: -0.118 ms

Below is generated by plot.py at 2018-06-20 20:20:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 131.32 Mbit/s
95th percentile per-packet one-way delay: 52.484 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 131.32 Mbit/s
95th percentile per-packet one-way delay: 52.484 ms
Loss rate: 0.27%

Run 10: Report of Copa — Data Link

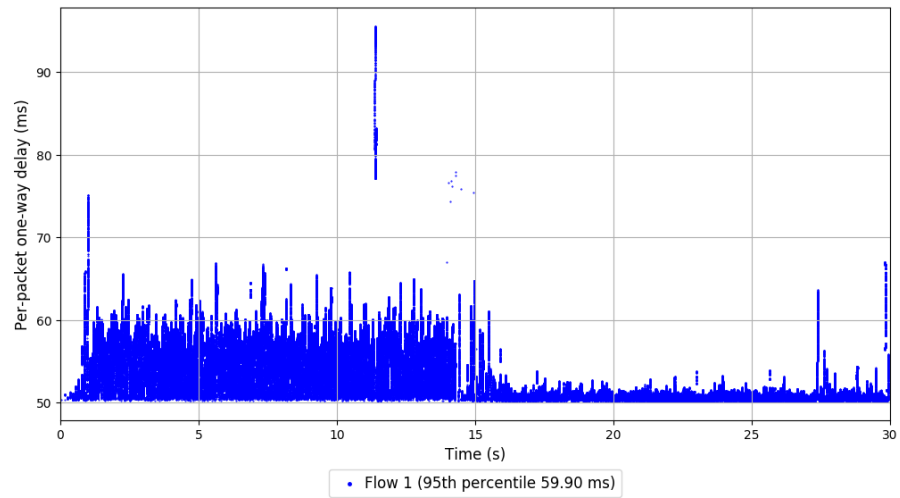
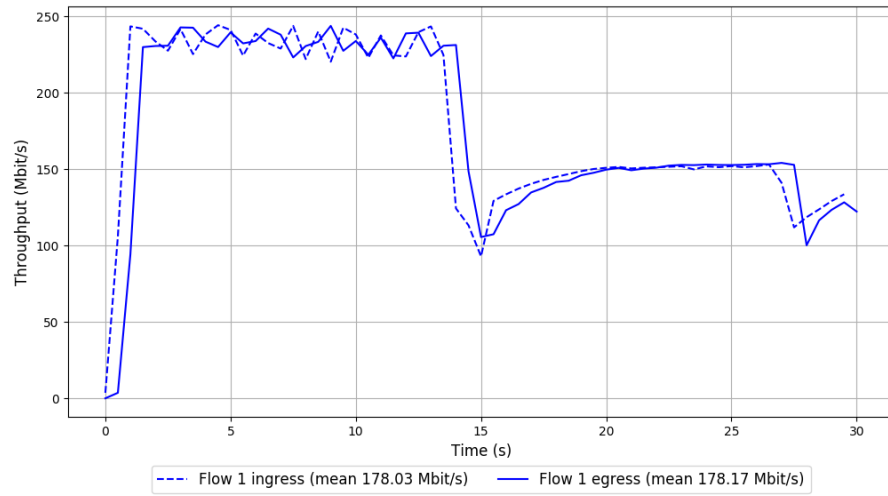


Run 1: Statistics of TCP Cubic

Start at: 2018-06-20 16:47:08
End at: 2018-06-20 16:47:38
Local clock offset: 0.064 ms
Remote clock offset: -0.066 ms

Below is generated by plot.py at 2018-06-20 20:20:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 178.17 Mbit/s
95th percentile per-packet one-way delay: 59.904 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 178.17 Mbit/s
95th percentile per-packet one-way delay: 59.904 ms
Loss rate: 0.25%

Run 1: Report of TCP Cubic — Data Link

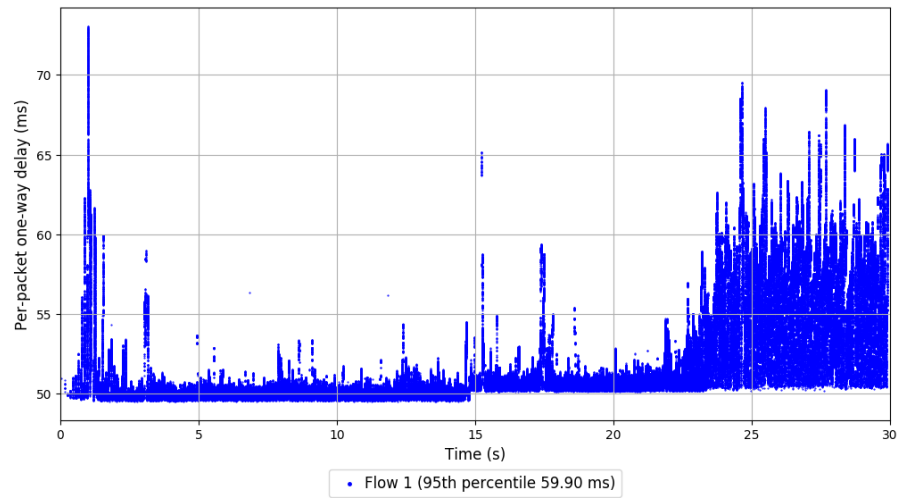
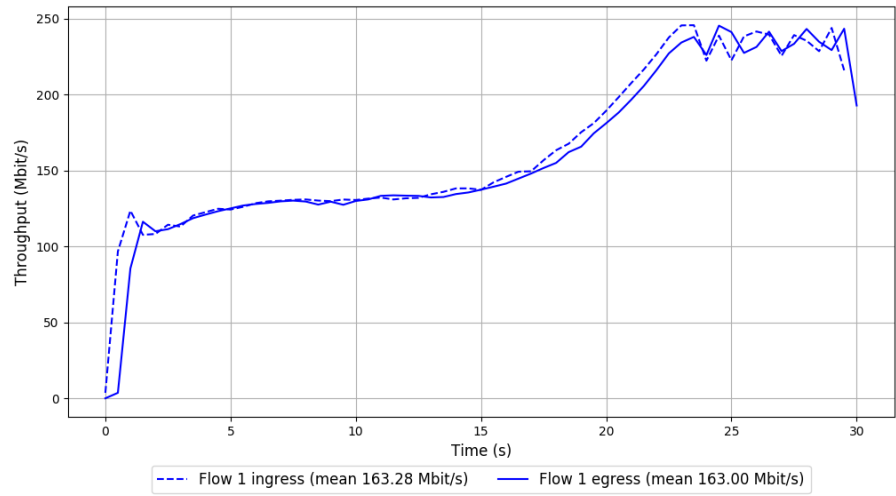


Run 2: Statistics of TCP Cubic

Start at: 2018-06-20 17:07:04
End at: 2018-06-20 17:07:34
Local clock offset: -0.041 ms
Remote clock offset: -0.109 ms

Below is generated by plot.py at 2018-06-20 20:20:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 163.00 Mbit/s
95th percentile per-packet one-way delay: 59.901 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 163.00 Mbit/s
95th percentile per-packet one-way delay: 59.901 ms
Loss rate: 0.49%

Run 2: Report of TCP Cubic — Data Link

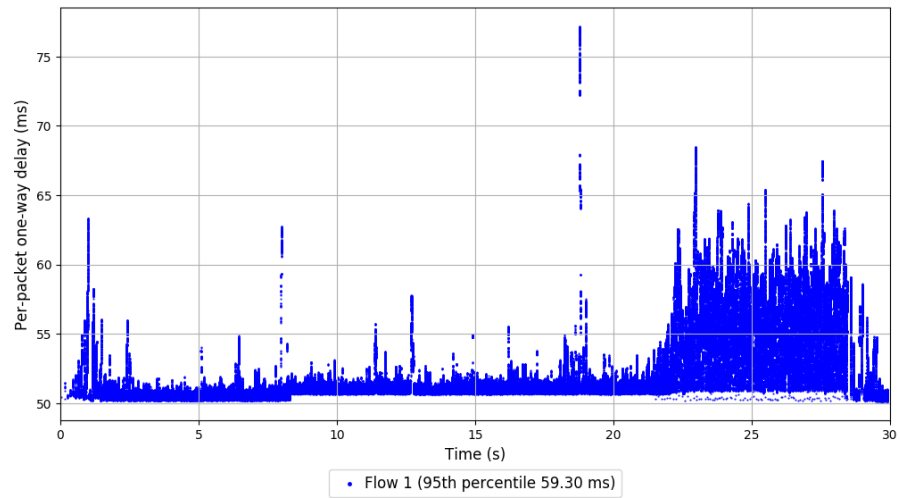
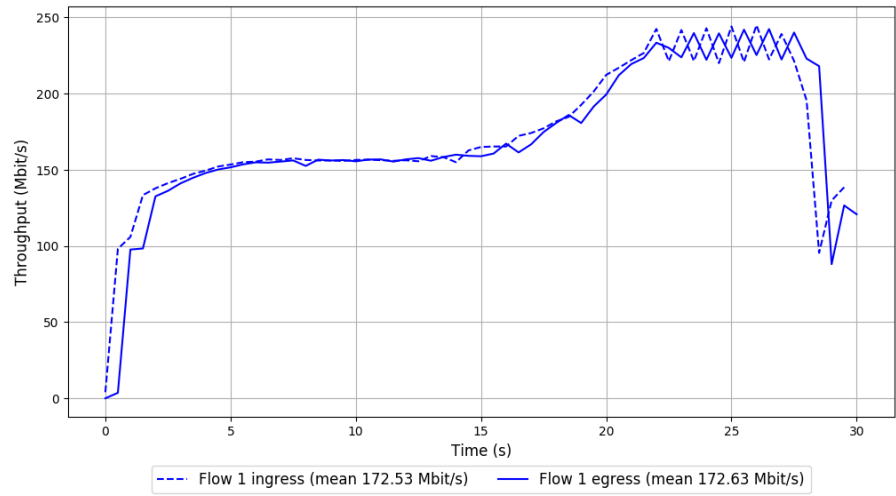


Run 3: Statistics of TCP Cubic

Start at: 2018-06-20 17:27:00
End at: 2018-06-20 17:27:30
Local clock offset: 0.008 ms
Remote clock offset: -0.039 ms

Below is generated by plot.py at 2018-06-20 20:20:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 172.63 Mbit/s
95th percentile per-packet one-way delay: 59.296 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 172.63 Mbit/s
95th percentile per-packet one-way delay: 59.296 ms
Loss rate: 0.27%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-06-20 17:47:16

End at: 2018-06-20 17:47:46

Local clock offset: 0.093 ms

Remote clock offset: 0.123 ms

Below is generated by plot.py at 2018-06-20 20:20:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 156.71 Mbit/s

95th percentile per-packet one-way delay: 59.675 ms

Loss rate: 0.52%

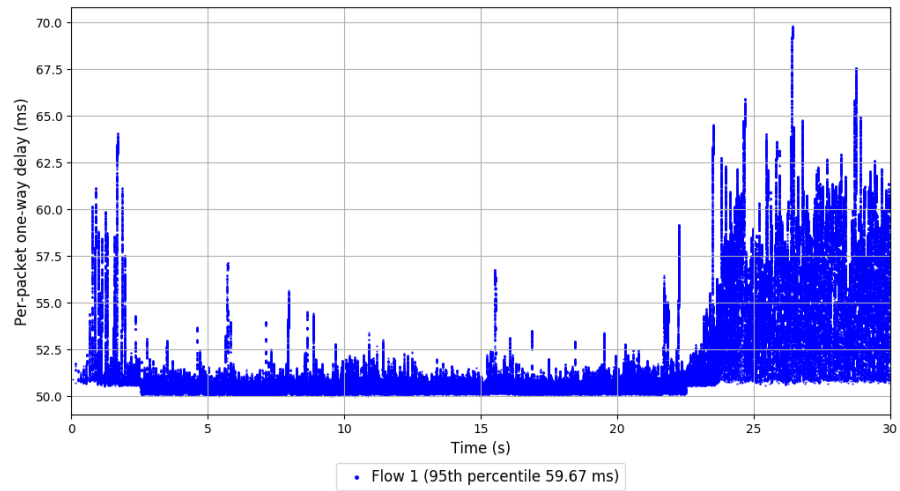
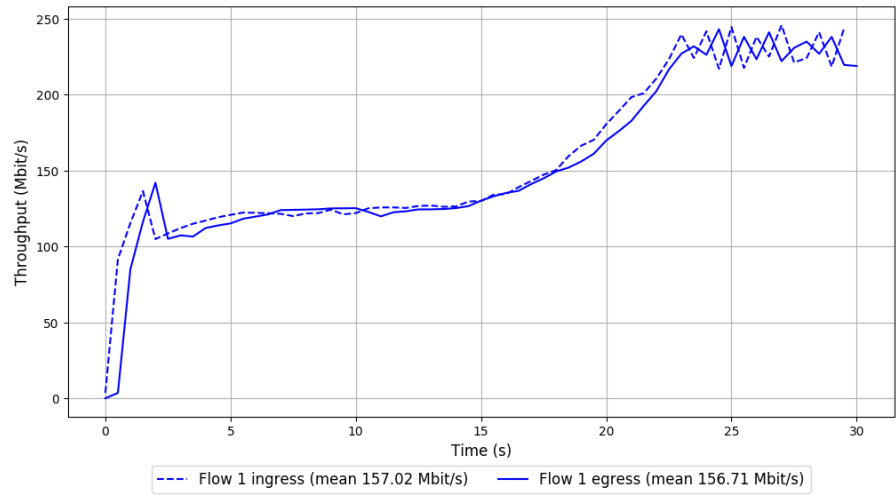
-- Flow 1:

Average throughput: 156.71 Mbit/s

95th percentile per-packet one-way delay: 59.675 ms

Loss rate: 0.52%

Run 4: Report of TCP Cubic — Data Link

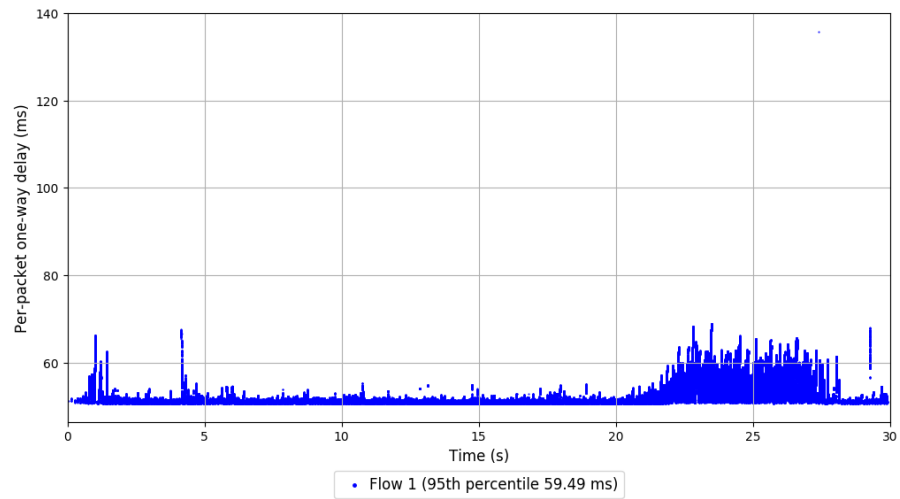
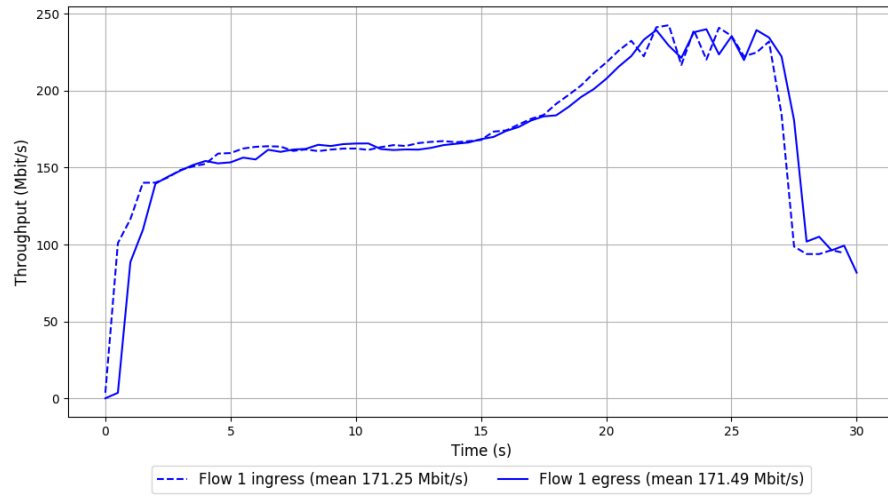


Run 5: Statistics of TCP Cubic

Start at: 2018-06-20 18:07:15
End at: 2018-06-20 18:07:45
Local clock offset: 0.392 ms
Remote clock offset: -0.075 ms

Below is generated by plot.py at 2018-06-20 20:22:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 171.49 Mbit/s
95th percentile per-packet one-way delay: 59.488 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 171.49 Mbit/s
95th percentile per-packet one-way delay: 59.488 ms
Loss rate: 0.20%

Run 5: Report of TCP Cubic — Data Link

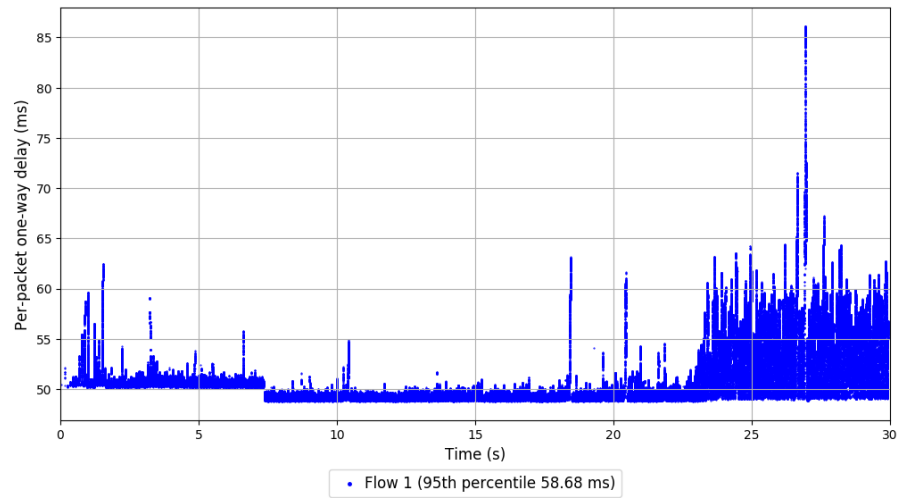
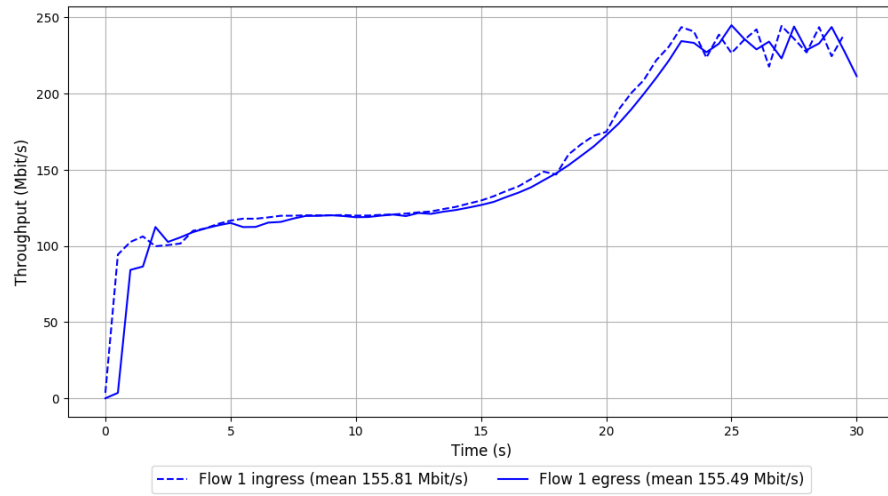


Run 6: Statistics of TCP Cubic

Start at: 2018-06-20 18:27:21
End at: 2018-06-20 18:27:51
Local clock offset: -0.043 ms
Remote clock offset: -0.045 ms

Below is generated by plot.py at 2018-06-20 20:22:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 155.49 Mbit/s
95th percentile per-packet one-way delay: 58.683 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 155.49 Mbit/s
95th percentile per-packet one-way delay: 58.683 ms
Loss rate: 0.53%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-06-20 18:47:11

End at: 2018-06-20 18:47:41

Local clock offset: -0.007 ms

Remote clock offset: 0.275 ms

Below is generated by plot.py at 2018-06-20 20:22:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 137.47 Mbit/s

95th percentile per-packet one-way delay: 58.135 ms

Loss rate: 0.27%

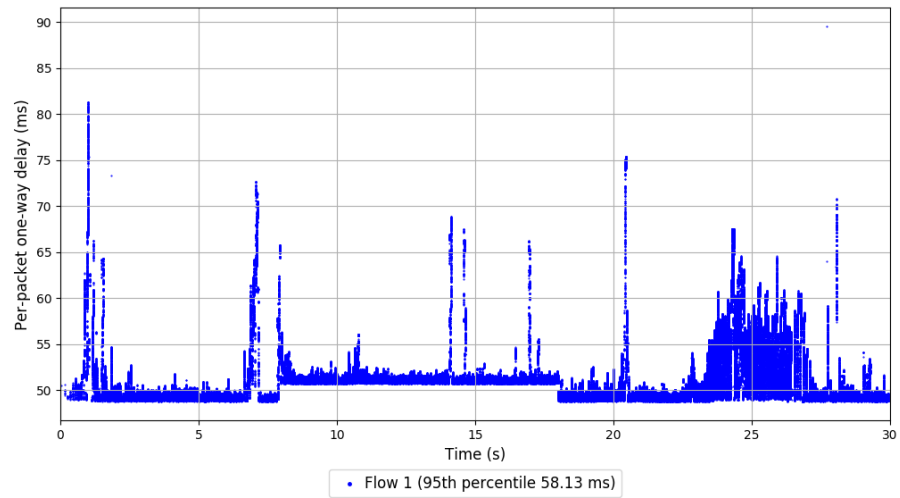
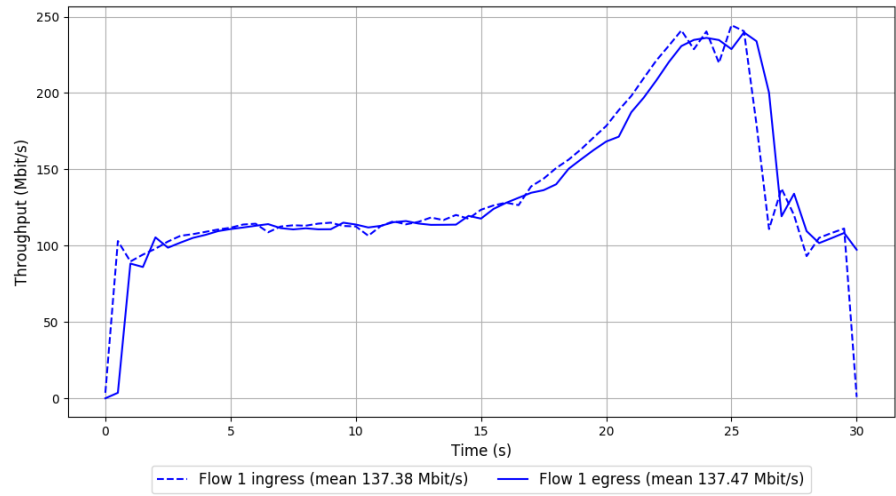
-- Flow 1:

Average throughput: 137.47 Mbit/s

95th percentile per-packet one-way delay: 58.135 ms

Loss rate: 0.27%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-06-20 19:07:11

End at: 2018-06-20 19:07:41

Local clock offset: 0.011 ms

Remote clock offset: 0.258 ms

Below is generated by plot.py at 2018-06-20 20:22:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.63 Mbit/s

95th percentile per-packet one-way delay: 58.070 ms

Loss rate: 0.47%

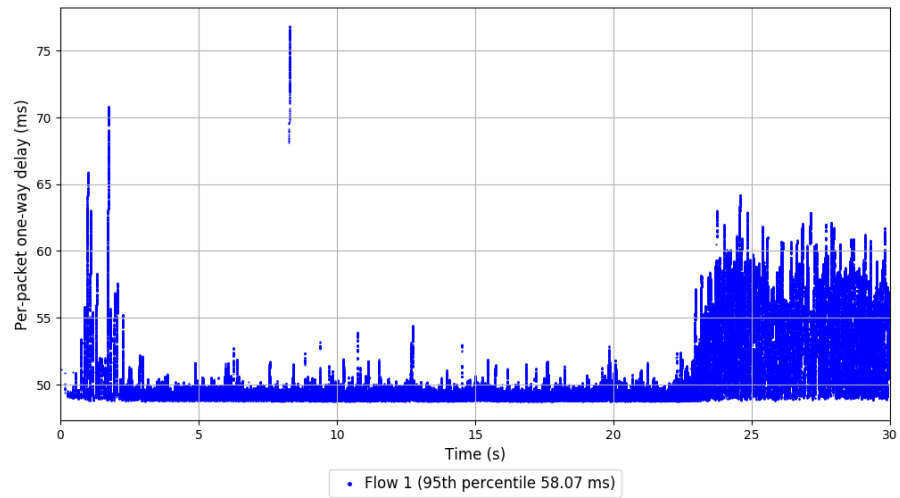
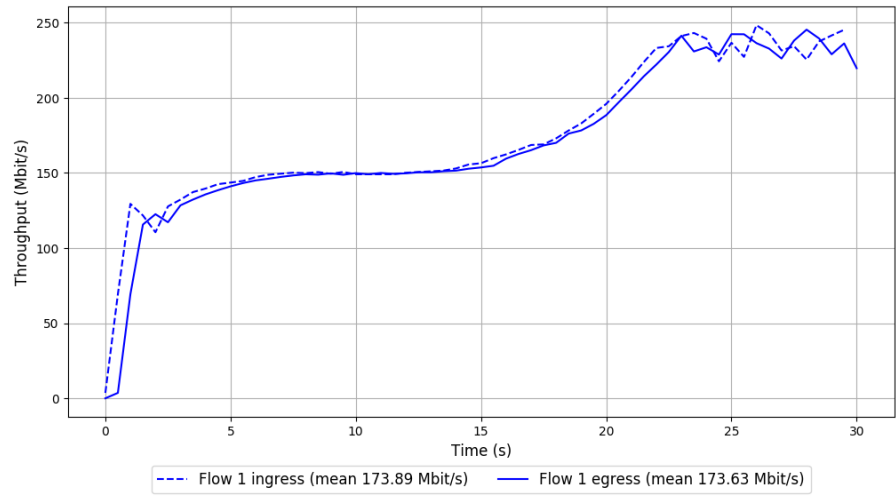
-- Flow 1:

Average throughput: 173.63 Mbit/s

95th percentile per-packet one-way delay: 58.070 ms

Loss rate: 0.47%

Run 8: Report of TCP Cubic — Data Link

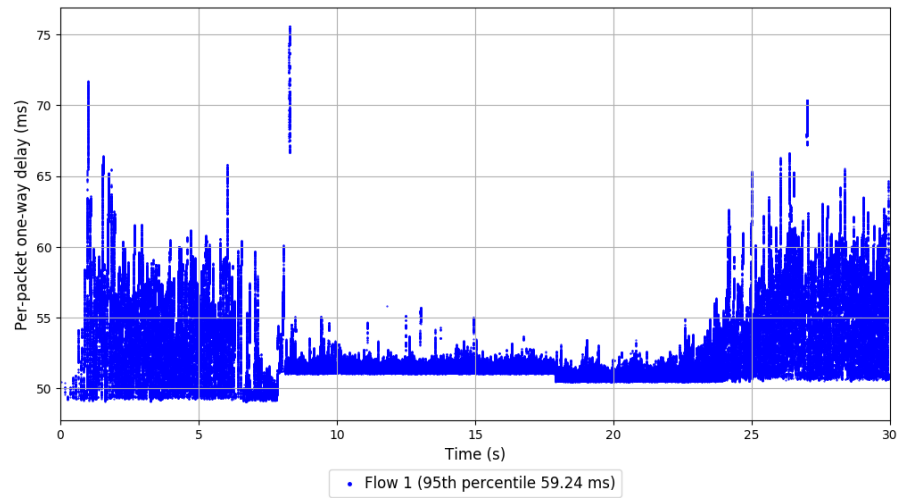
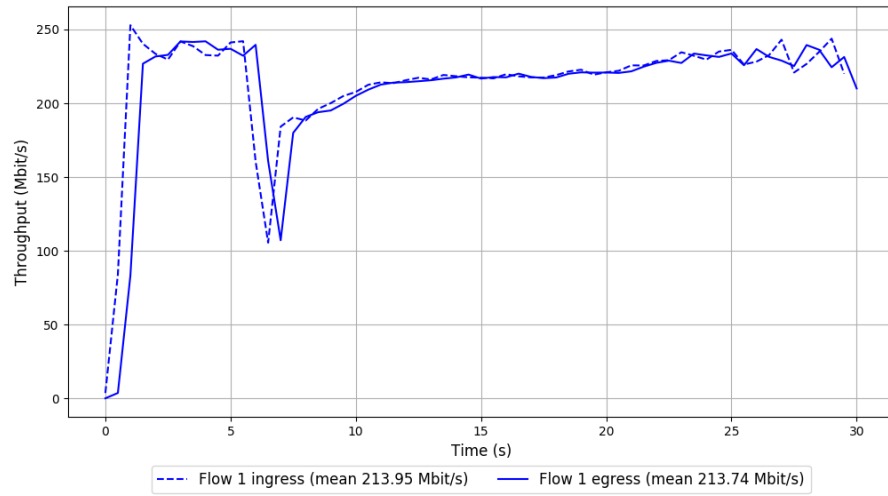


Run 9: Statistics of TCP Cubic

Start at: 2018-06-20 19:27:11
End at: 2018-06-20 19:27:41
Local clock offset: 0.372 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2018-06-20 20:23:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 213.74 Mbit/s
95th percentile per-packet one-way delay: 59.237 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 213.74 Mbit/s
95th percentile per-packet one-way delay: 59.237 ms
Loss rate: 0.37%

Run 9: Report of TCP Cubic — Data Link

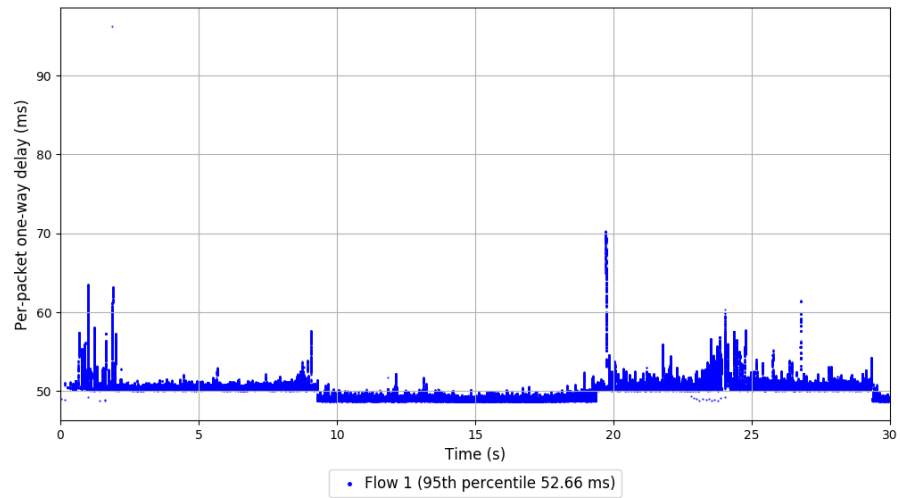
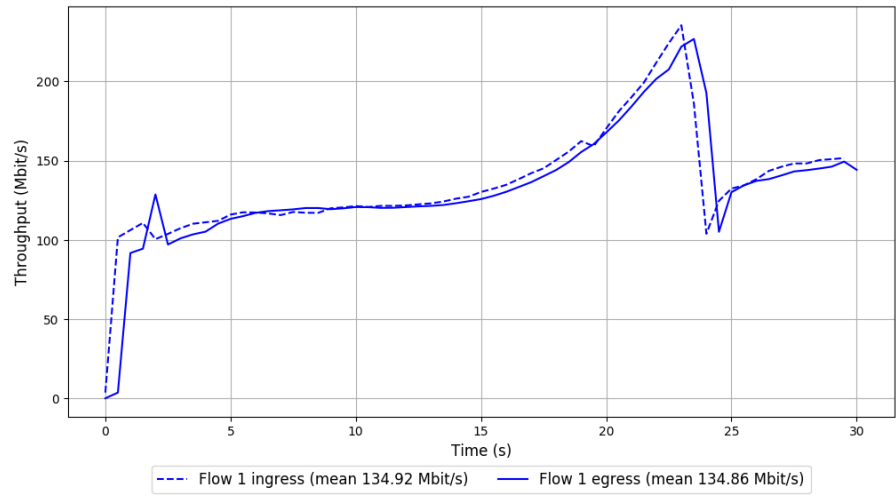


Run 10: Statistics of TCP Cubic

Start at: 2018-06-20 19:47:00
End at: 2018-06-20 19:47:30
Local clock offset: -0.003 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-06-20 20:23:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 134.86 Mbit/s
95th percentile per-packet one-way delay: 52.655 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 134.86 Mbit/s
95th percentile per-packet one-way delay: 52.655 ms
Loss rate: 0.37%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-06-20 16:48:22

End at: 2018-06-20 16:48:52

Local clock offset: 0.449 ms

Remote clock offset: -0.07 ms

Below is generated by plot.py at 2018-06-20 20:34:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 678.97 Mbit/s

95th percentile per-packet one-way delay: 278.252 ms

Loss rate: 2.82%

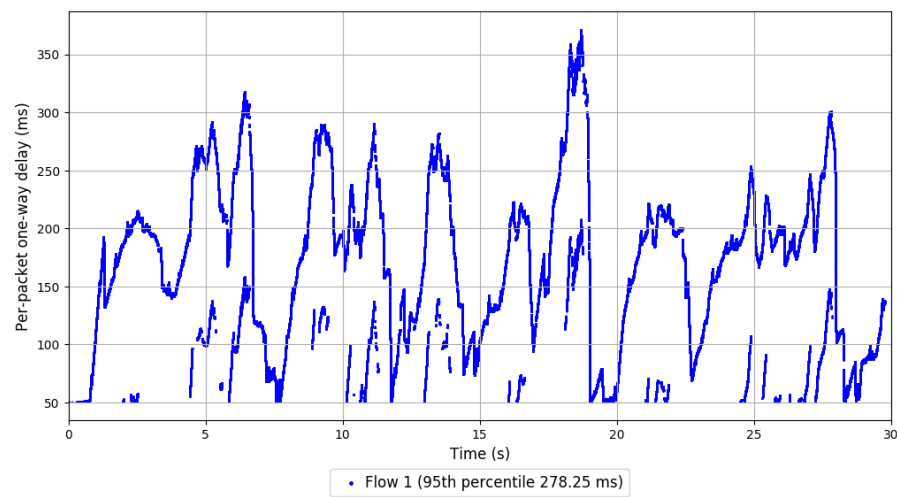
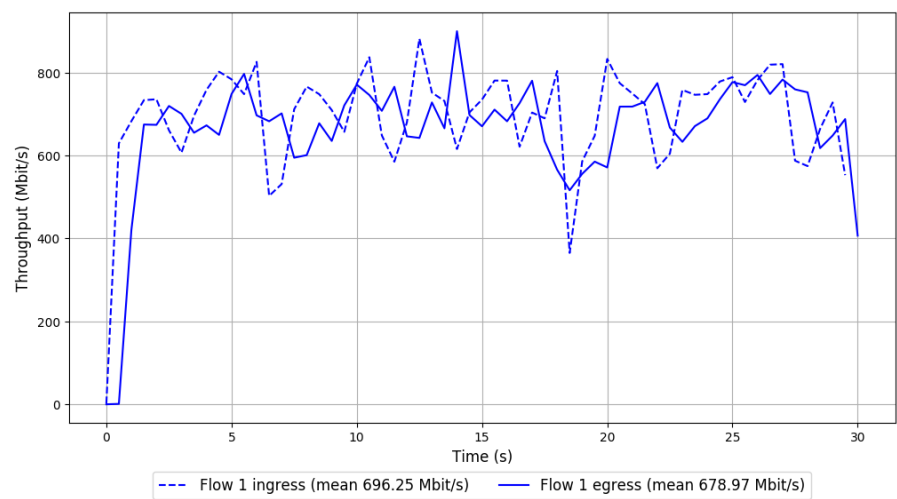
-- Flow 1:

Average throughput: 678.97 Mbit/s

95th percentile per-packet one-way delay: 278.252 ms

Loss rate: 2.82%

Run 1: Report of FillP — Data Link

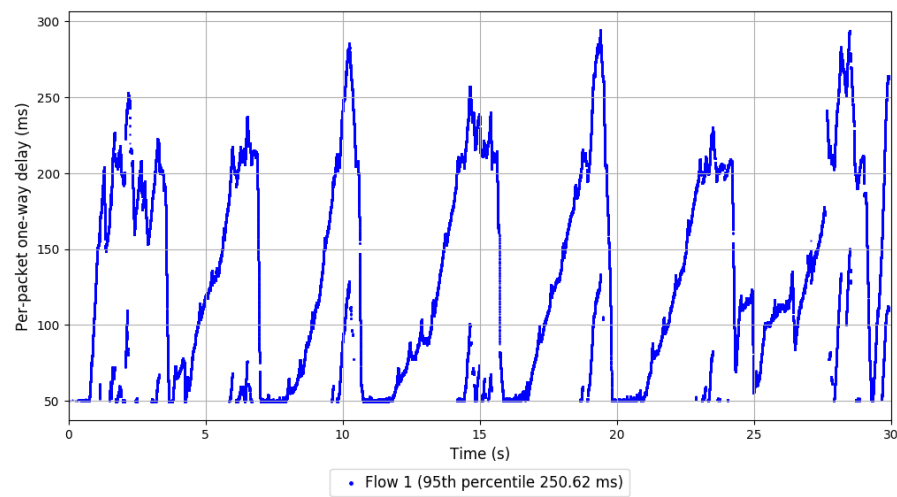
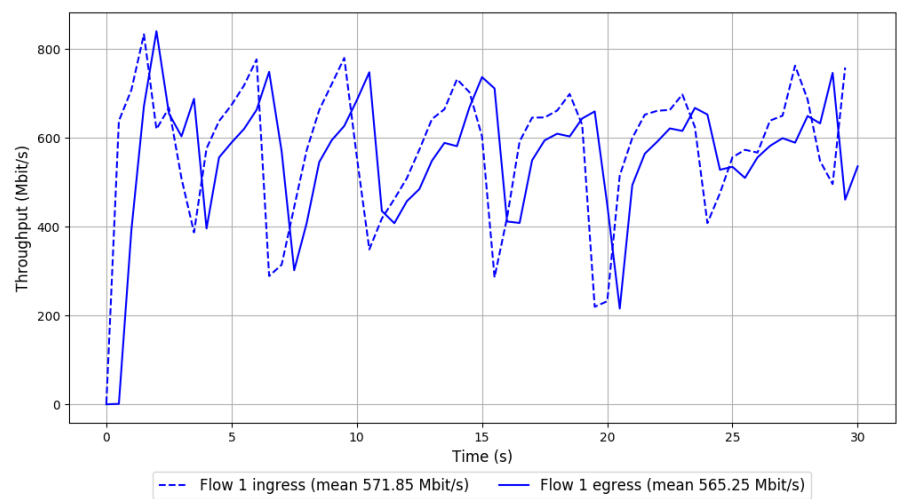


Run 2: Statistics of FillP

Start at: 2018-06-20 17:08:17
End at: 2018-06-20 17:08:47
Local clock offset: -0.095 ms
Remote clock offset: -0.118 ms

Below is generated by plot.py at 2018-06-20 20:34:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 565.25 Mbit/s
95th percentile per-packet one-way delay: 250.625 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 565.25 Mbit/s
95th percentile per-packet one-way delay: 250.625 ms
Loss rate: 1.49%

Run 2: Report of FillP — Data Link

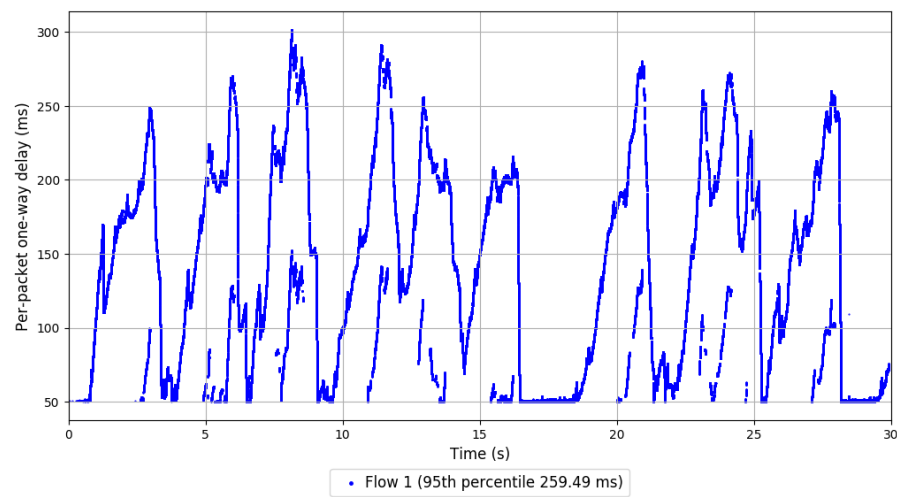
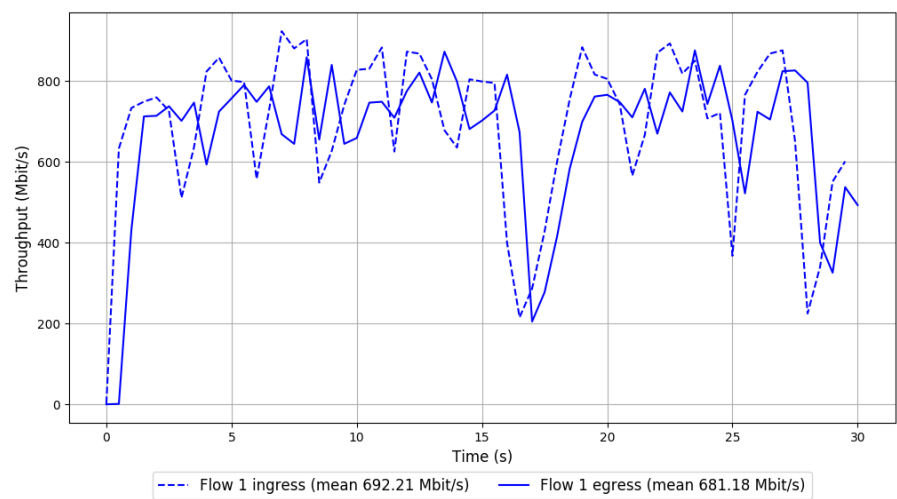


Run 3: Statistics of FillP

Start at: 2018-06-20 17:28:14
End at: 2018-06-20 17:28:44
Local clock offset: -0.039 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-06-20 20:35:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 681.18 Mbit/s
95th percentile per-packet one-way delay: 259.492 ms
Loss rate: 1.93%
-- Flow 1:
Average throughput: 681.18 Mbit/s
95th percentile per-packet one-way delay: 259.492 ms
Loss rate: 1.93%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-06-20 17:48:29

End at: 2018-06-20 17:48:59

Local clock offset: 0.088 ms

Remote clock offset: 0.006 ms

Below is generated by plot.py at 2018-06-20 20:35:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 563.61 Mbit/s

95th percentile per-packet one-way delay: 218.929 ms

Loss rate: 0.32%

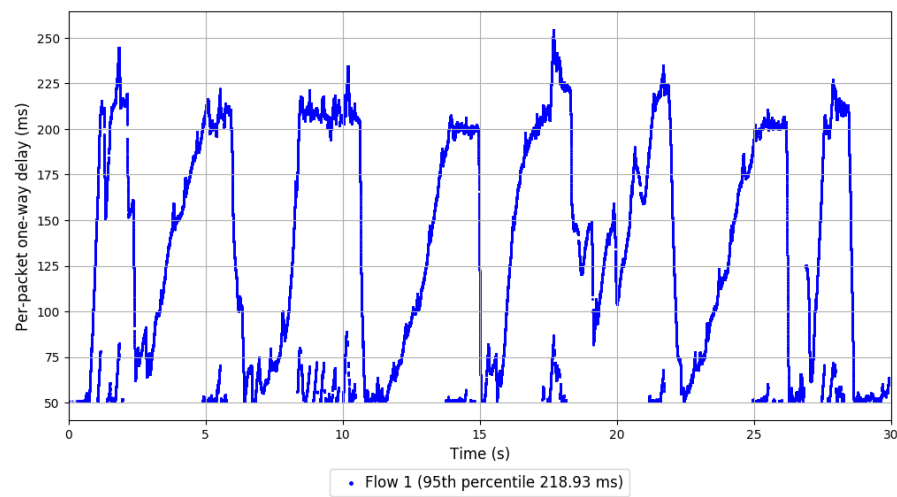
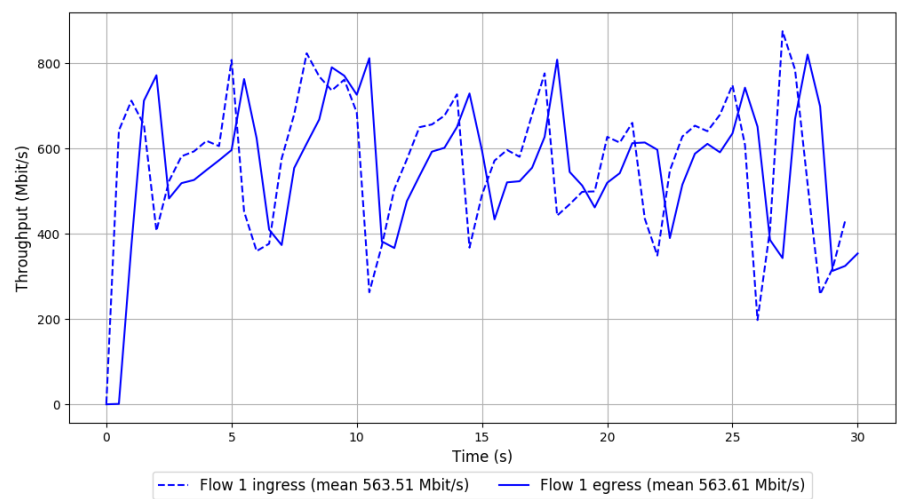
-- Flow 1:

Average throughput: 563.61 Mbit/s

95th percentile per-packet one-way delay: 218.929 ms

Loss rate: 0.32%

Run 4: Report of FillP — Data Link

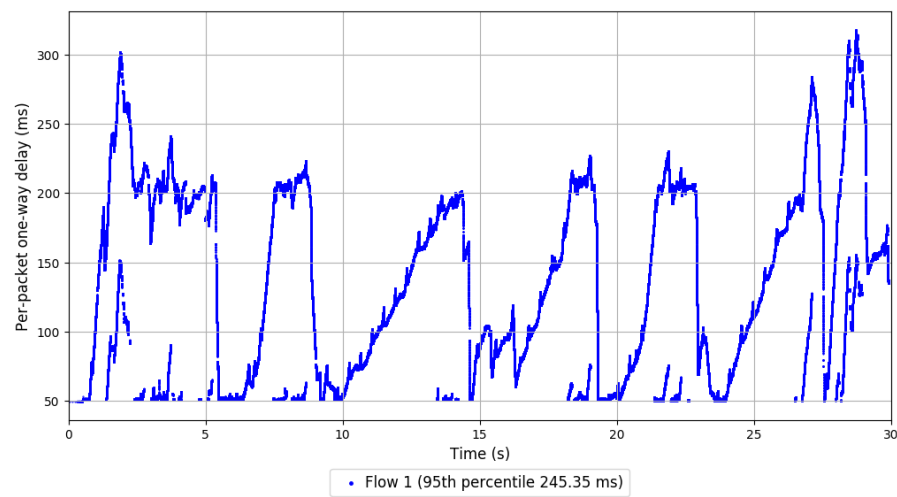
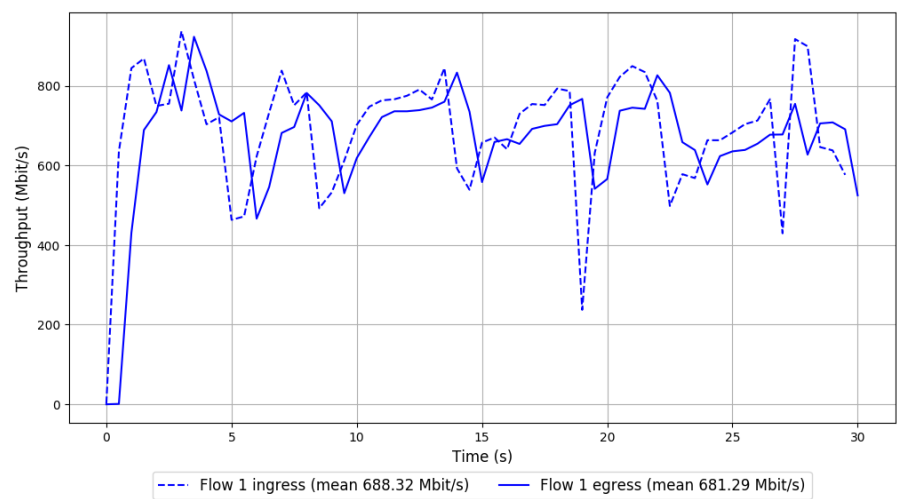


Run 5: Statistics of FillP

Start at: 2018-06-20 18:08:28
End at: 2018-06-20 18:08:58
Local clock offset: 0.025 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-06-20 20:36:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 681.29 Mbit/s
95th percentile per-packet one-way delay: 245.349 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 681.29 Mbit/s
95th percentile per-packet one-way delay: 245.349 ms
Loss rate: 1.36%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-06-20 18:28:34

End at: 2018-06-20 18:29:04

Local clock offset: -0.006 ms

Remote clock offset: 0.036 ms

Below is generated by plot.py at 2018-06-20 20:36:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 703.58 Mbit/s

95th percentile per-packet one-way delay: 240.294 ms

Loss rate: 0.93%

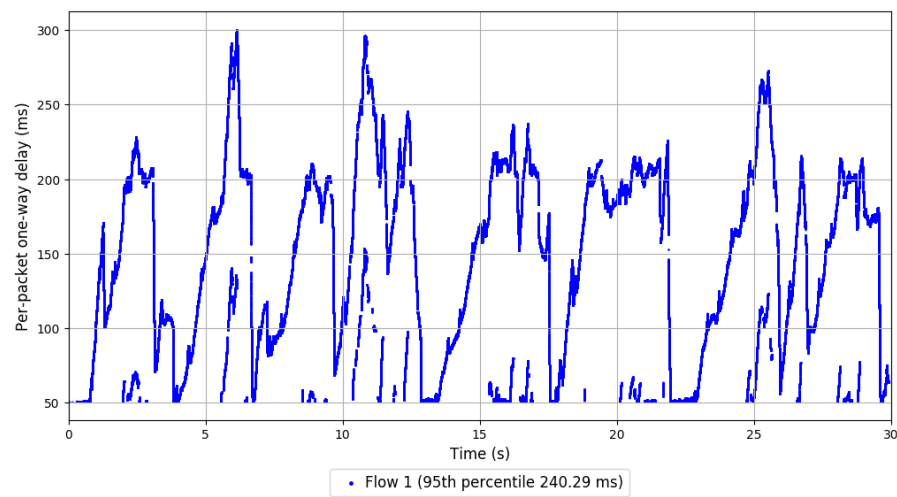
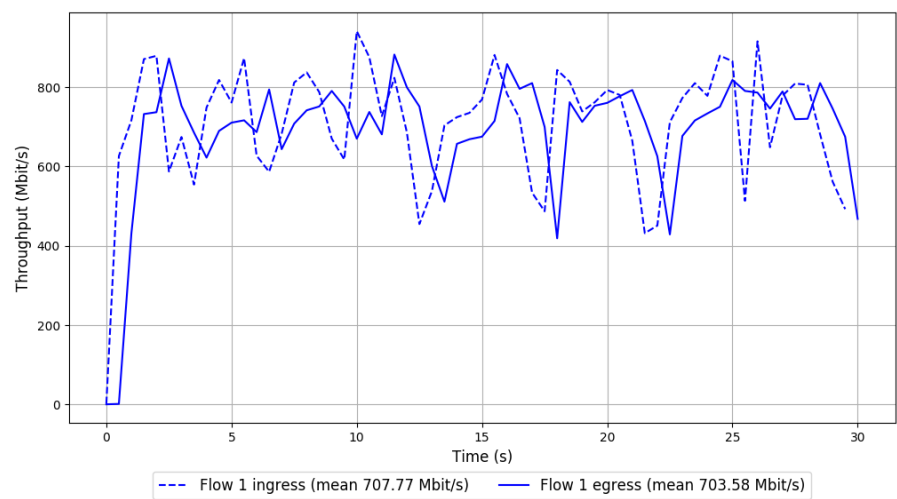
-- Flow 1:

Average throughput: 703.58 Mbit/s

95th percentile per-packet one-way delay: 240.294 ms

Loss rate: 0.93%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-06-20 18:48:23

End at: 2018-06-20 18:48:53

Local clock offset: -0.408 ms

Remote clock offset: 0.226 ms

Below is generated by plot.py at 2018-06-20 20:36:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 647.45 Mbit/s

95th percentile per-packet one-way delay: 233.252 ms

Loss rate: 1.26%

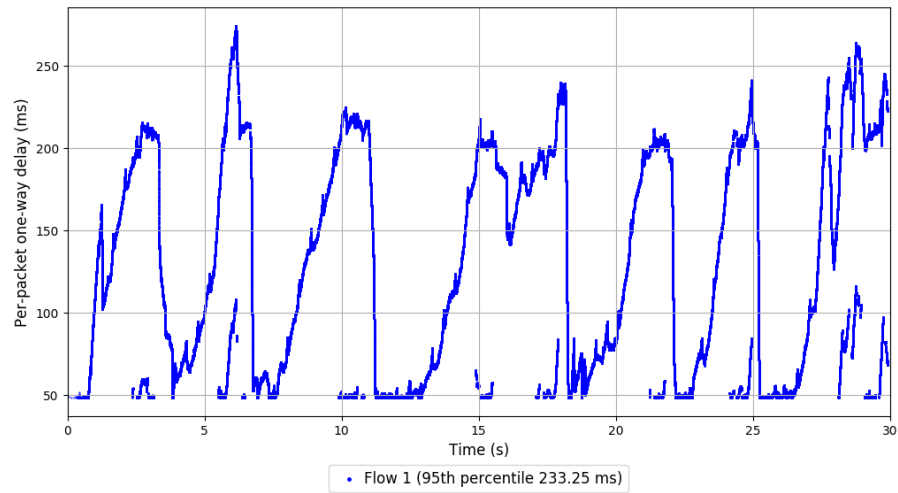
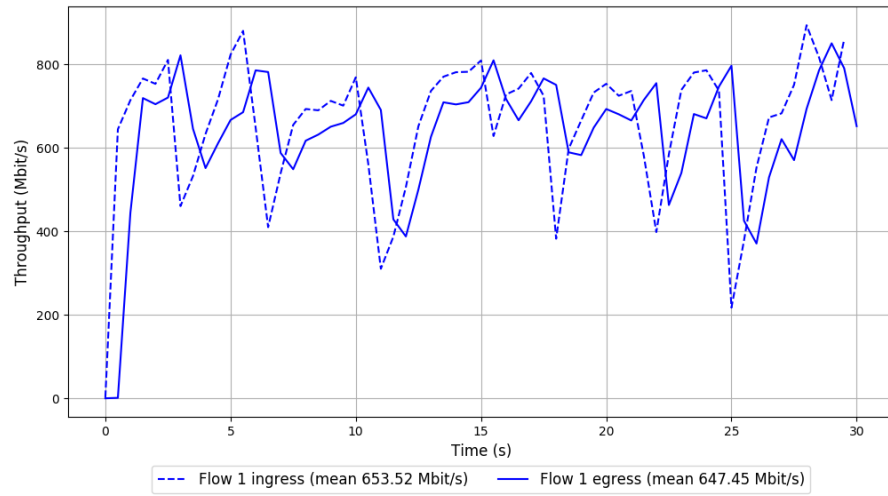
-- Flow 1:

Average throughput: 647.45 Mbit/s

95th percentile per-packet one-way delay: 233.252 ms

Loss rate: 1.26%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-06-20 19:08:24

End at: 2018-06-20 19:08:54

Local clock offset: 0.009 ms

Remote clock offset: 0.218 ms

Below is generated by plot.py at 2018-06-20 20:36:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 549.35 Mbit/s

95th percentile per-packet one-way delay: 215.668 ms

Loss rate: 0.49%

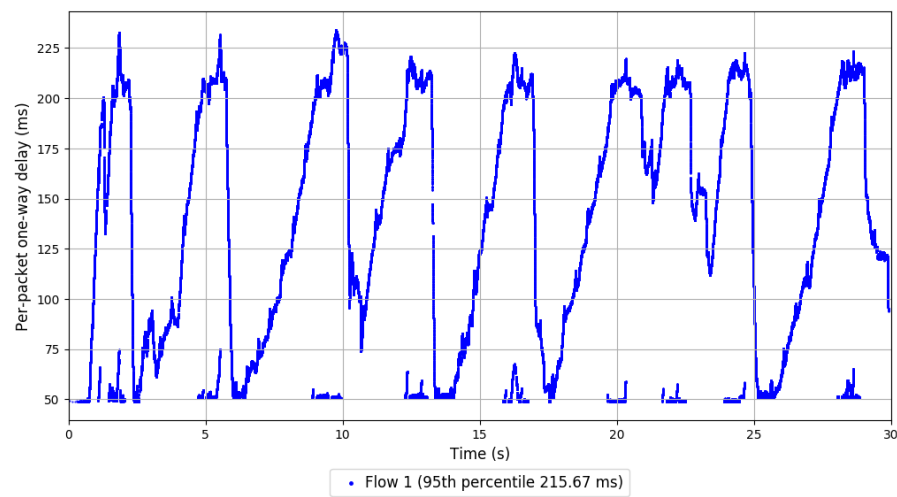
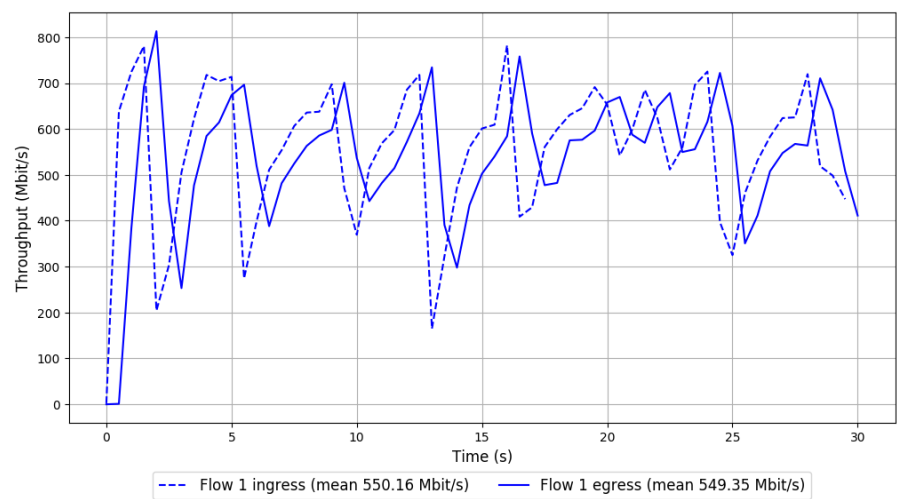
-- Flow 1:

Average throughput: 549.35 Mbit/s

95th percentile per-packet one-way delay: 215.668 ms

Loss rate: 0.49%

Run 8: Report of FillP — Data Link

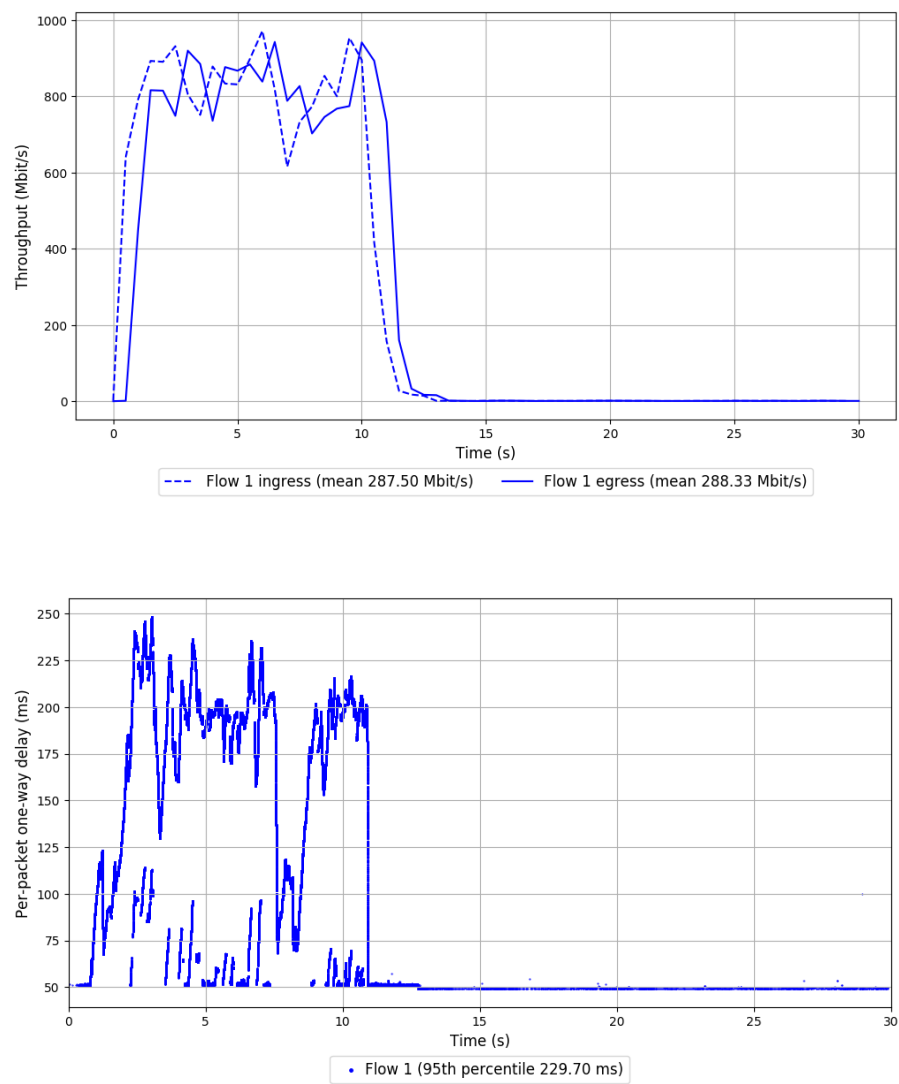


Run 9: Statistics of FillP

Start at: 2018-06-20 19:28:26
End at: 2018-06-20 19:28:56
Local clock offset: 0.441 ms
Remote clock offset: -0.031 ms

Below is generated by plot.py at 2018-06-20 20:38:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 288.33 Mbit/s
95th percentile per-packet one-way delay: 229.700 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 288.33 Mbit/s
95th percentile per-packet one-way delay: 229.700 ms
Loss rate: 0.09%

Run 9: Report of FillP — Data Link

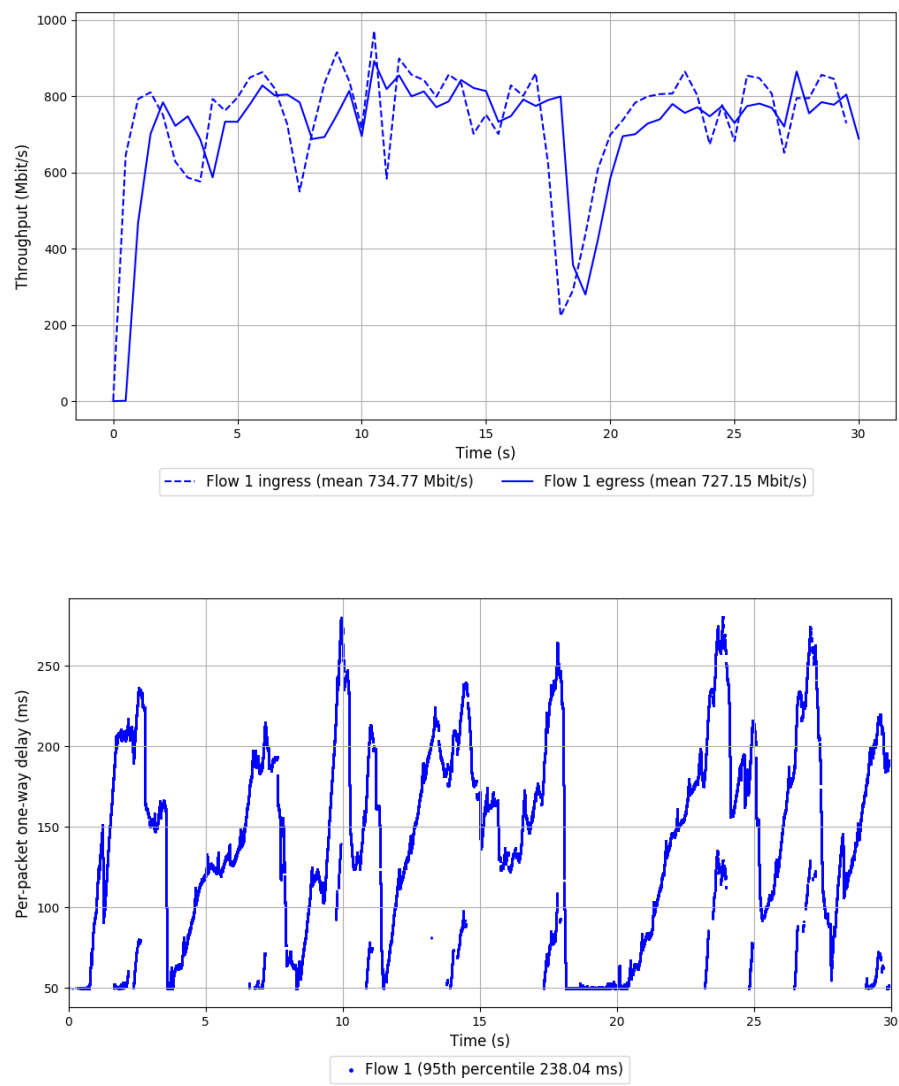


Run 10: Statistics of FillP

Start at: 2018-06-20 19:48:11
End at: 2018-06-20 19:48:41
Local clock offset: -0.035 ms
Remote clock offset: -0.078 ms

Below is generated by plot.py at 2018-06-20 20:48:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 727.15 Mbit/s
95th percentile per-packet one-way delay: 238.043 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 727.15 Mbit/s
95th percentile per-packet one-way delay: 238.043 ms
Loss rate: 1.37%

Run 10: Report of FillP — Data Link



Run 1: Statistics of Indigo

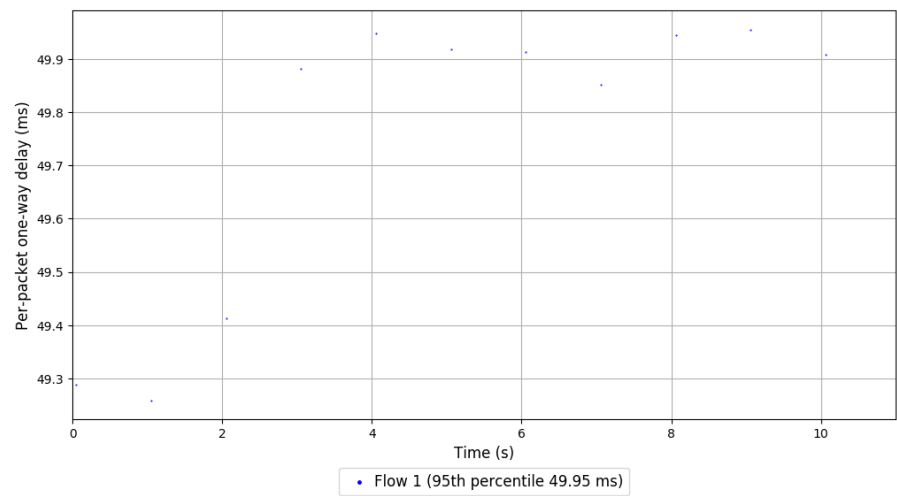
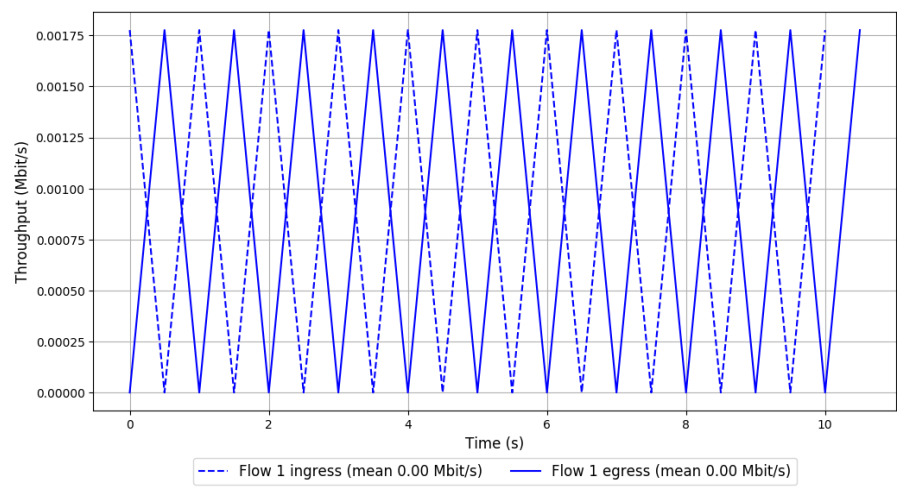
Start at: 2018-06-20 16:53:45

End at: 2018-06-20 16:54:16

Local clock offset: -0.414 ms

Remote clock offset: -0.07 ms

Run 1: Report of Indigo — Data Link

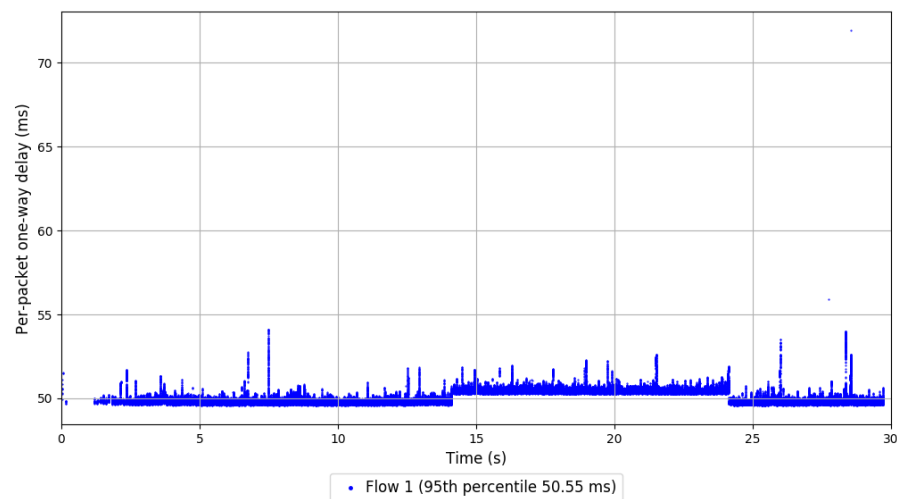
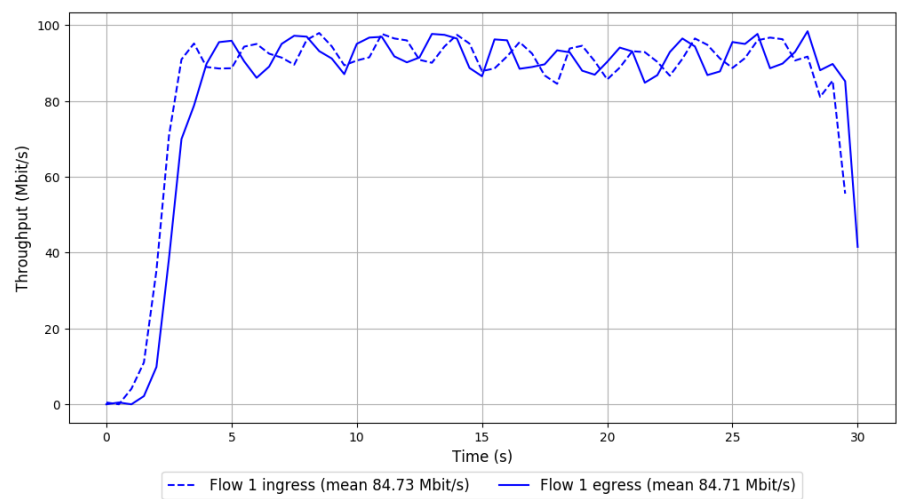


Run 2: Statistics of Indigo

Start at: 2018-06-20 17:13:35
End at: 2018-06-20 17:14:05
Local clock offset: -0.07 ms
Remote clock offset: -0.162 ms

Below is generated by plot.py at 2018-06-20 20:48:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.71 Mbit/s
95th percentile per-packet one-way delay: 50.550 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 84.71 Mbit/s
95th percentile per-packet one-way delay: 50.550 ms
Loss rate: 0.38%

Run 2: Report of Indigo — Data Link

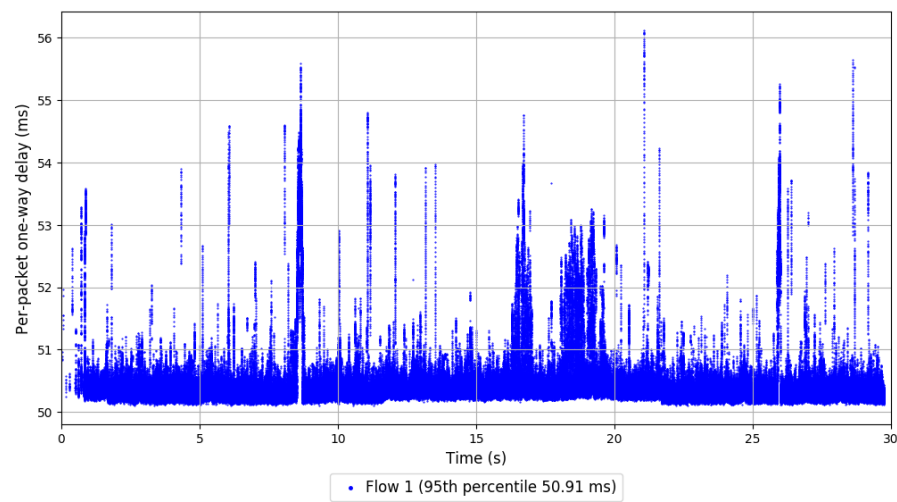
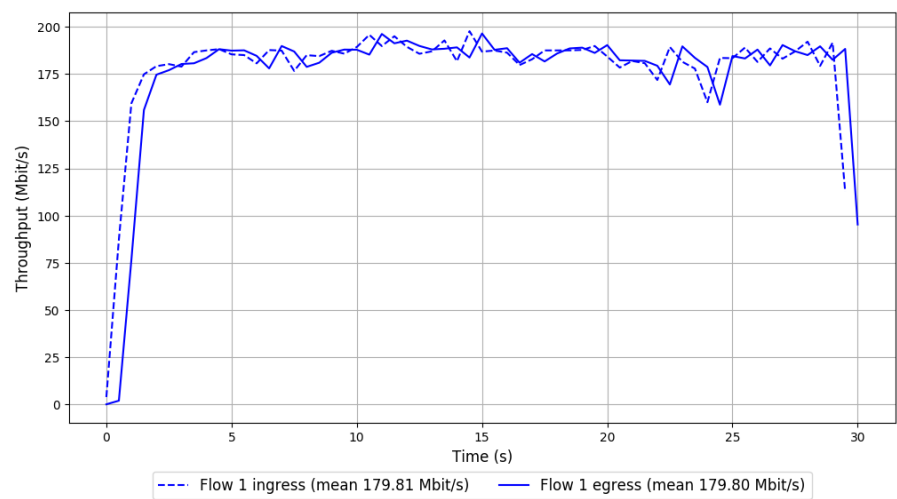


Run 3: Statistics of Indigo

Start at: 2018-06-20 17:33:37
End at: 2018-06-20 17:34:07
Local clock offset: 0.052 ms
Remote clock offset: -0.028 ms

Below is generated by plot.py at 2018-06-20 20:48:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 179.80 Mbit/s
95th percentile per-packet one-way delay: 50.906 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 179.80 Mbit/s
95th percentile per-packet one-way delay: 50.906 ms
Loss rate: 0.34%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-06-20 17:53:38

End at: 2018-06-20 17:54:08

Local clock offset: -0.288 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2018-06-20 20:48:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.12 Mbit/s

95th percentile per-packet one-way delay: 53.226 ms

Loss rate: 0.37%

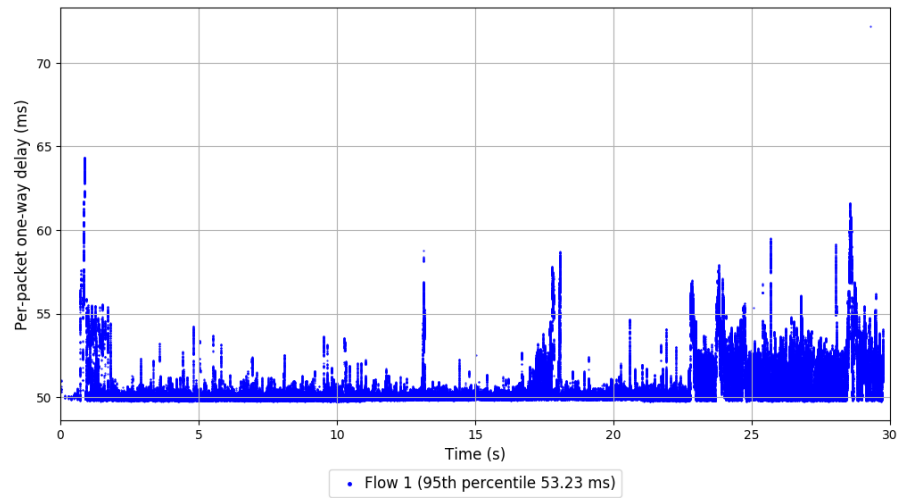
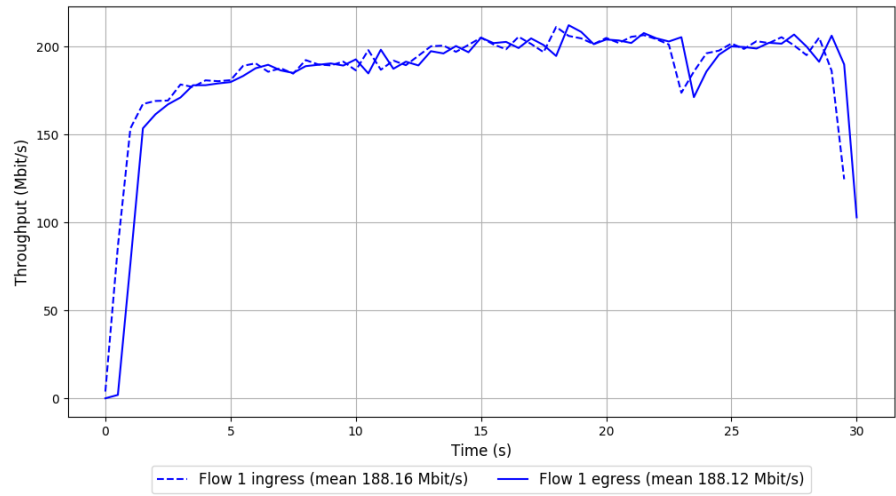
-- Flow 1:

Average throughput: 188.12 Mbit/s

95th percentile per-packet one-way delay: 53.226 ms

Loss rate: 0.37%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-06-20 18:13:48

End at: 2018-06-20 18:14:18

Local clock offset: -0.343 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2018-06-20 20:48:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.09 Mbit/s

95th percentile per-packet one-way delay: 50.891 ms

Loss rate: 0.37%

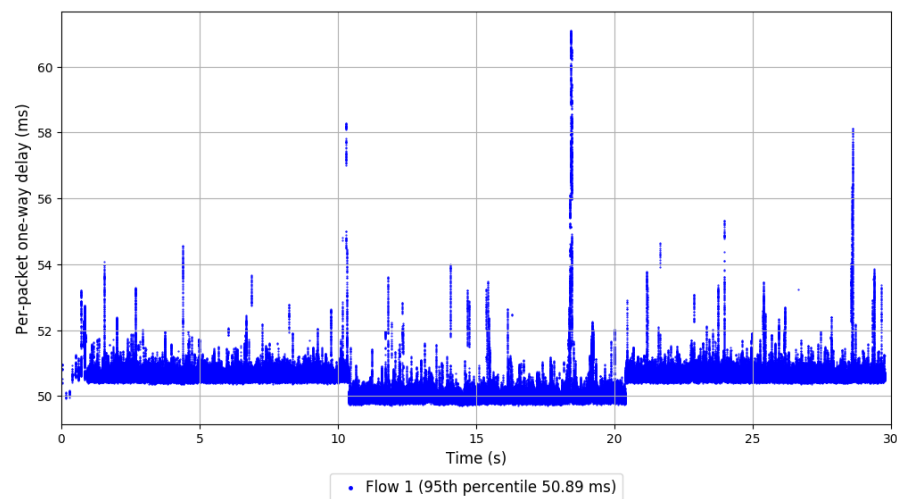
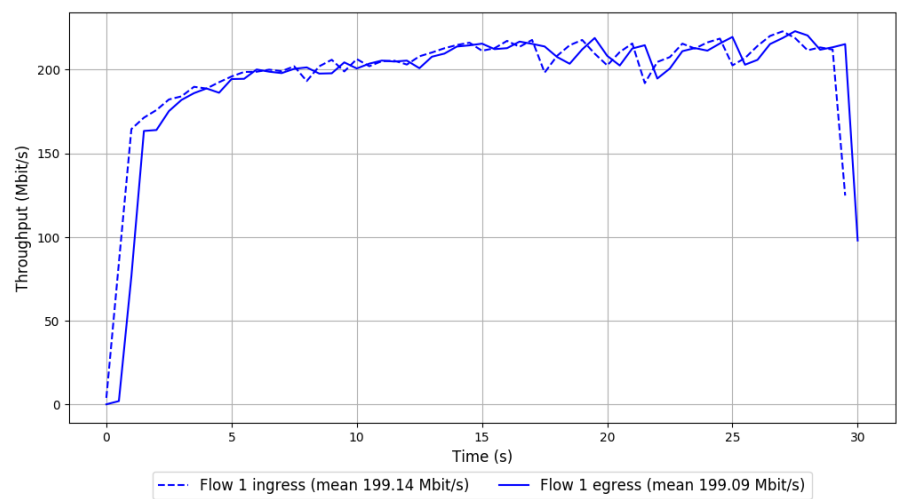
-- Flow 1:

Average throughput: 199.09 Mbit/s

95th percentile per-packet one-way delay: 50.891 ms

Loss rate: 0.37%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-06-20 18:33:44

End at: 2018-06-20 18:34:14

Local clock offset: -0.376 ms

Remote clock offset: 0.108 ms

Below is generated by plot.py at 2018-06-20 20:48:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.24 Mbit/s

95th percentile per-packet one-way delay: 50.322 ms

Loss rate: 0.35%

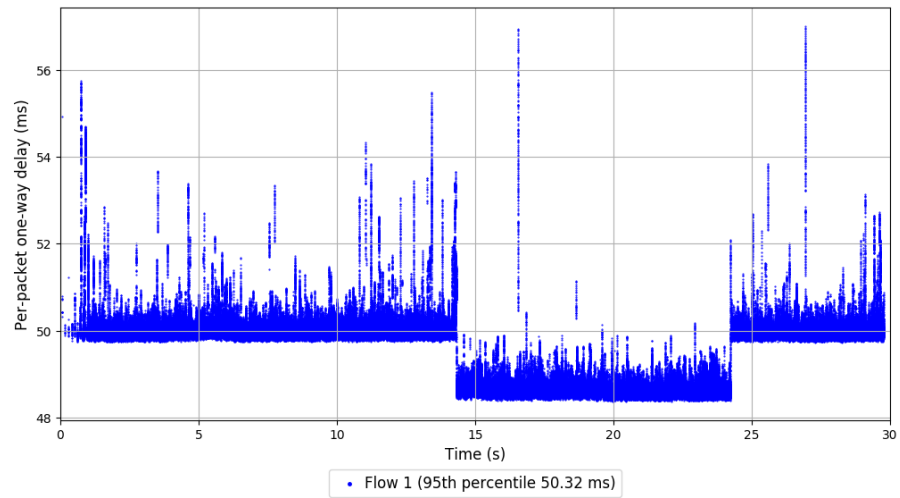
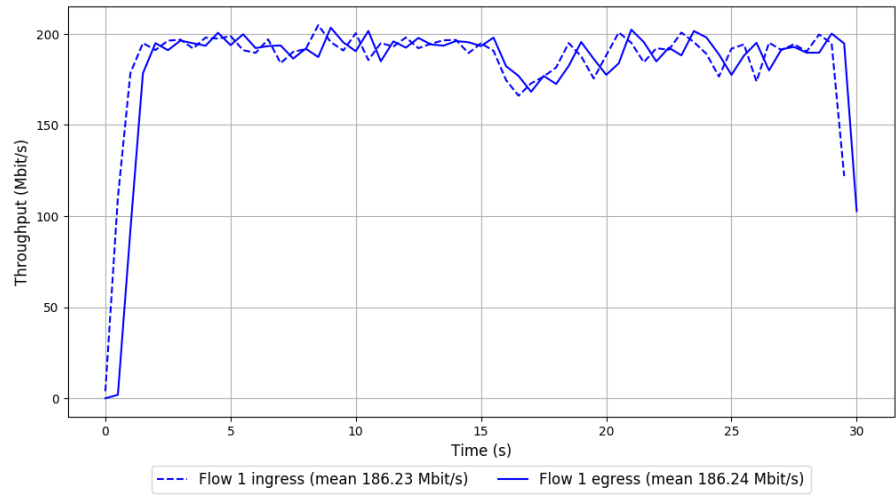
-- Flow 1:

Average throughput: 186.24 Mbit/s

95th percentile per-packet one-way delay: 50.322 ms

Loss rate: 0.35%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-06-20 18:53:43

End at: 2018-06-20 18:54:13

Local clock offset: 0.035 ms

Remote clock offset: 0.258 ms

Below is generated by plot.py at 2018-06-20 20:48:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.09 Mbit/s

95th percentile per-packet one-way delay: 51.189 ms

Loss rate: 0.37%

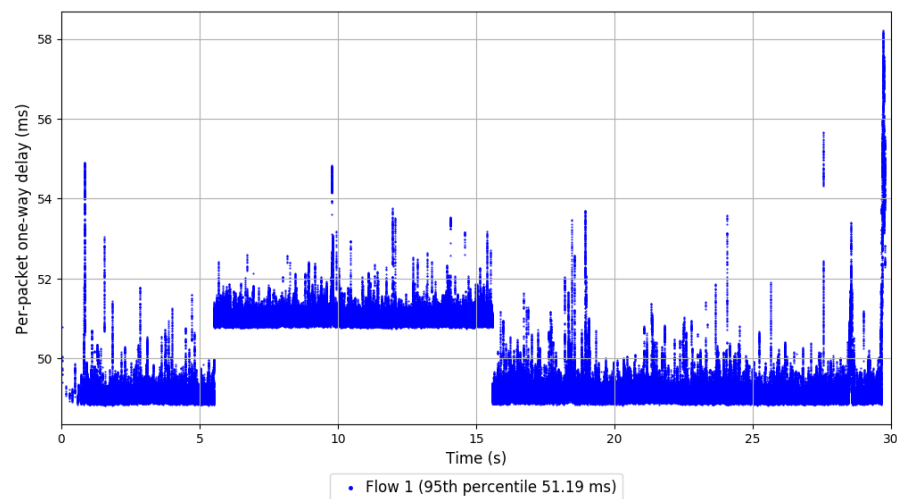
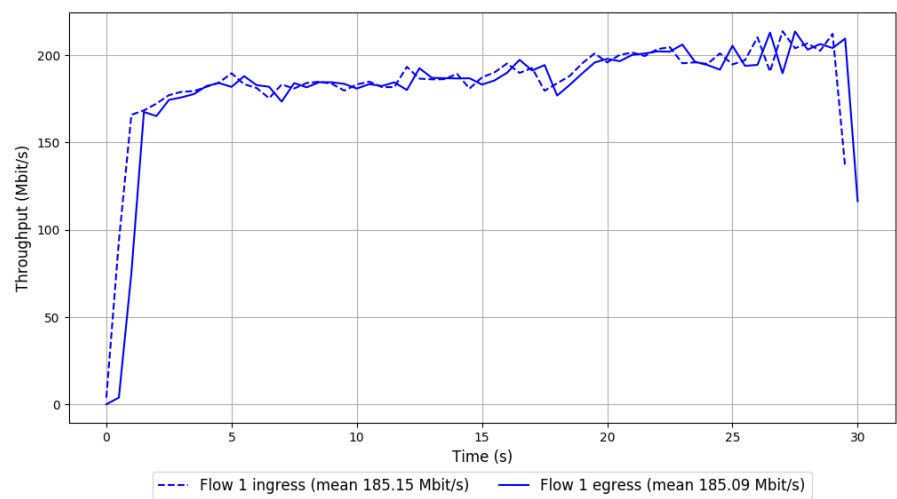
-- Flow 1:

Average throughput: 185.09 Mbit/s

95th percentile per-packet one-way delay: 51.189 ms

Loss rate: 0.37%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-06-20 19:13:36

End at: 2018-06-20 19:14:06

Local clock offset: -0.319 ms

Remote clock offset: 0.101 ms

Below is generated by plot.py at 2018-06-20 20:48:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.65 Mbit/s

95th percentile per-packet one-way delay: 50.671 ms

Loss rate: 0.36%

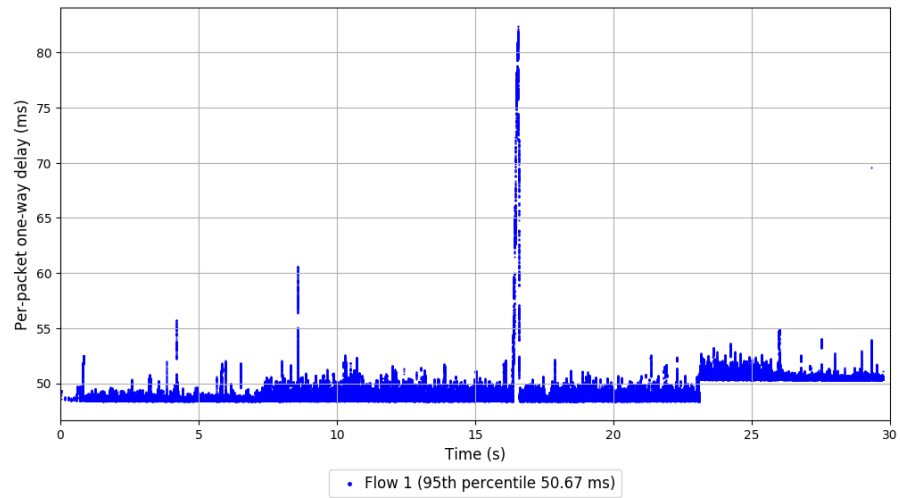
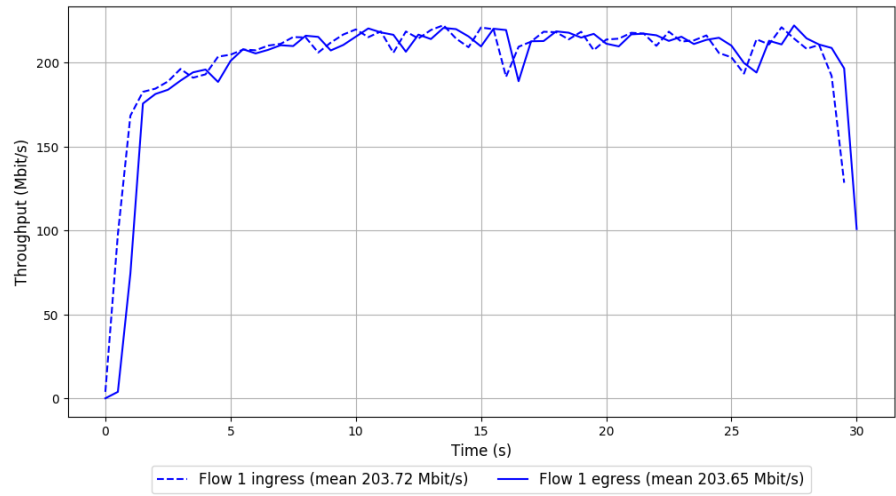
-- Flow 1:

Average throughput: 203.65 Mbit/s

95th percentile per-packet one-way delay: 50.671 ms

Loss rate: 0.36%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-06-20 19:33:33

End at: 2018-06-20 19:34:03

Local clock offset: 0.026 ms

Remote clock offset: -0.057 ms

Below is generated by plot.py at 2018-06-20 20:48:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.59 Mbit/s

95th percentile per-packet one-way delay: 51.211 ms

Loss rate: 0.38%

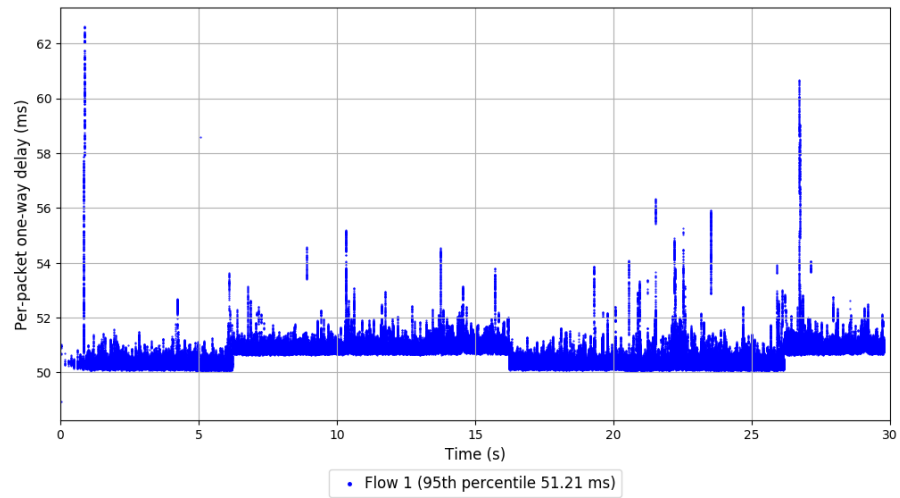
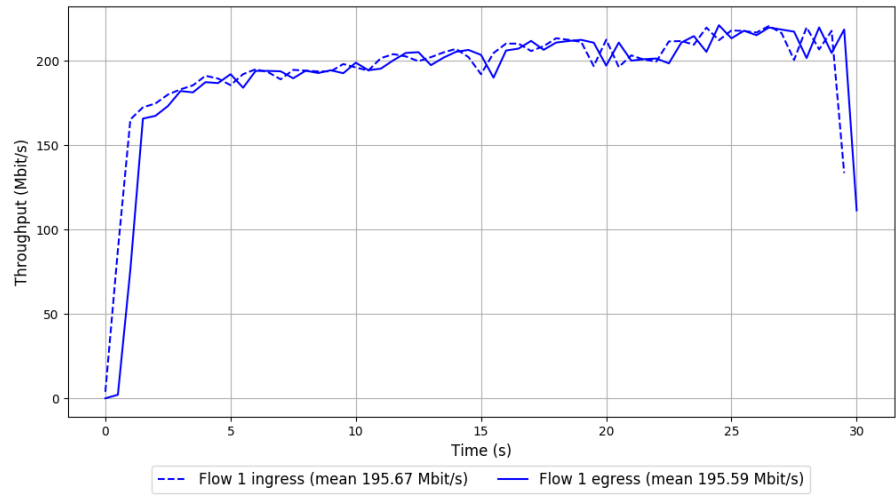
-- Flow 1:

Average throughput: 195.59 Mbit/s

95th percentile per-packet one-way delay: 51.211 ms

Loss rate: 0.38%

Run 9: Report of Indigo — Data Link

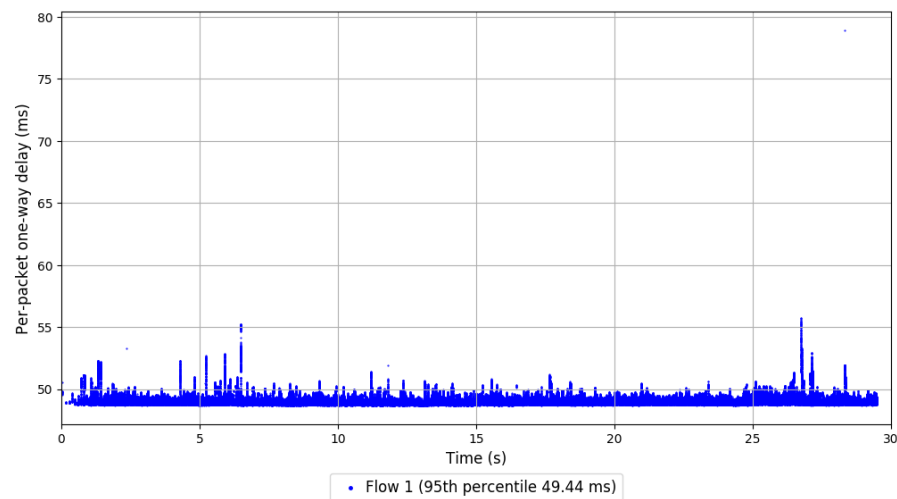
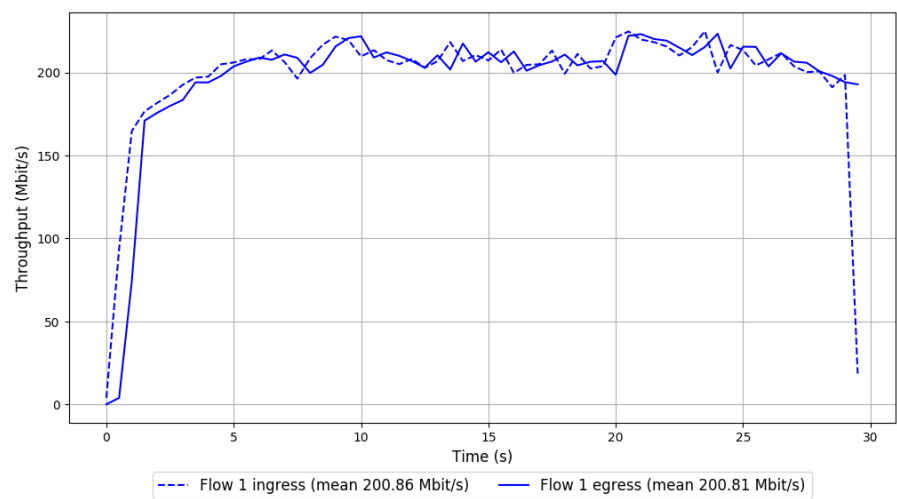


Run 10: Statistics of Indigo

Start at: 2018-06-20 19:53:32
End at: 2018-06-20 19:54:02
Local clock offset: -0.045 ms
Remote clock offset: -0.083 ms

Below is generated by plot.py at 2018-06-20 20:48:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 200.81 Mbit/s
95th percentile per-packet one-way delay: 49.443 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 200.81 Mbit/s
95th percentile per-packet one-way delay: 49.443 ms
Loss rate: 0.37%

Run 10: Report of Indigo — Data Link

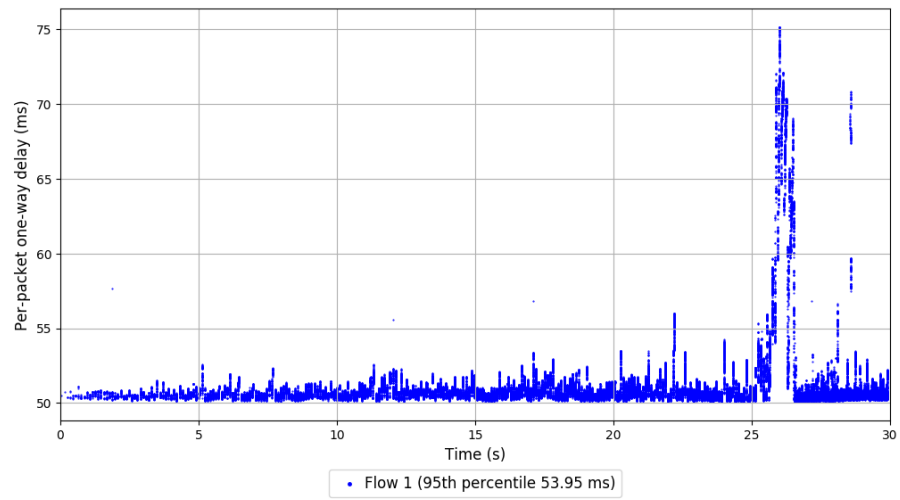
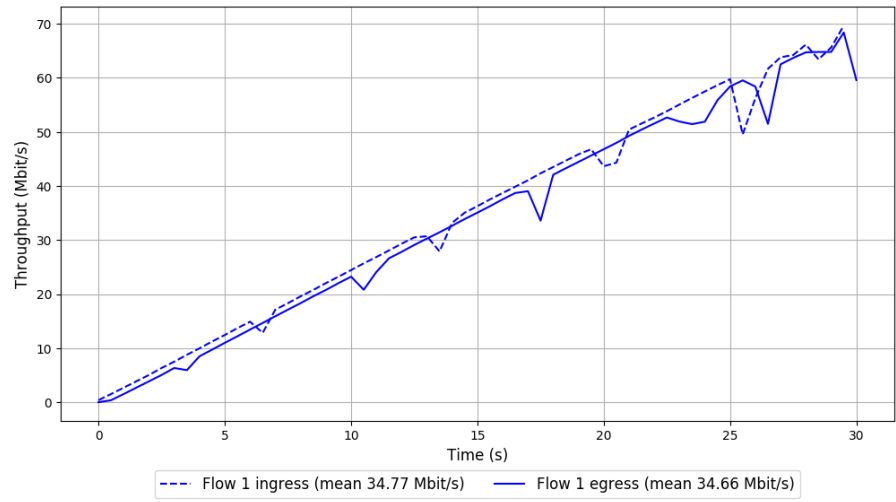


Run 1: Statistics of LEDBAT

Start at: 2018-06-20 16:54:51
End at: 2018-06-20 16:55:21
Local clock offset: 0.009 ms
Remote clock offset: -0.041 ms

Below is generated by plot.py at 2018-06-20 20:48:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 34.66 Mbit/s
95th percentile per-packet one-way delay: 53.946 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 34.66 Mbit/s
95th percentile per-packet one-way delay: 53.946 ms
Loss rate: 0.67%

Run 1: Report of LEDBAT — Data Link

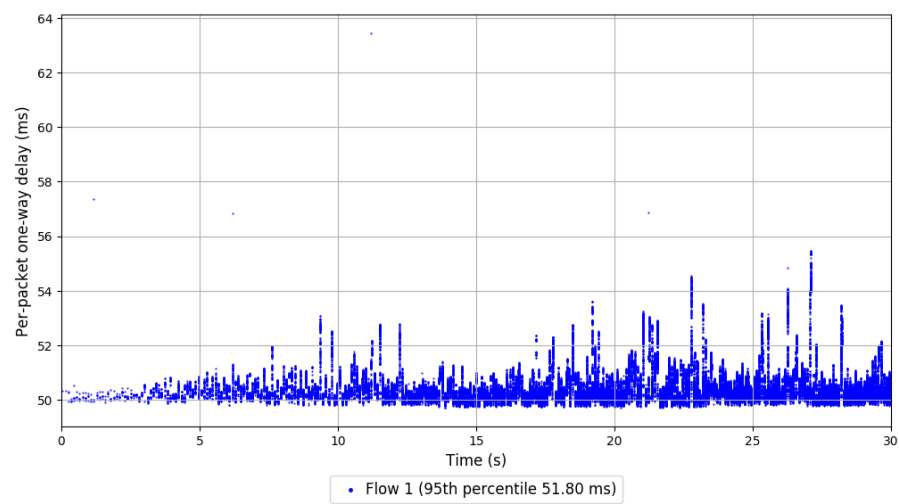
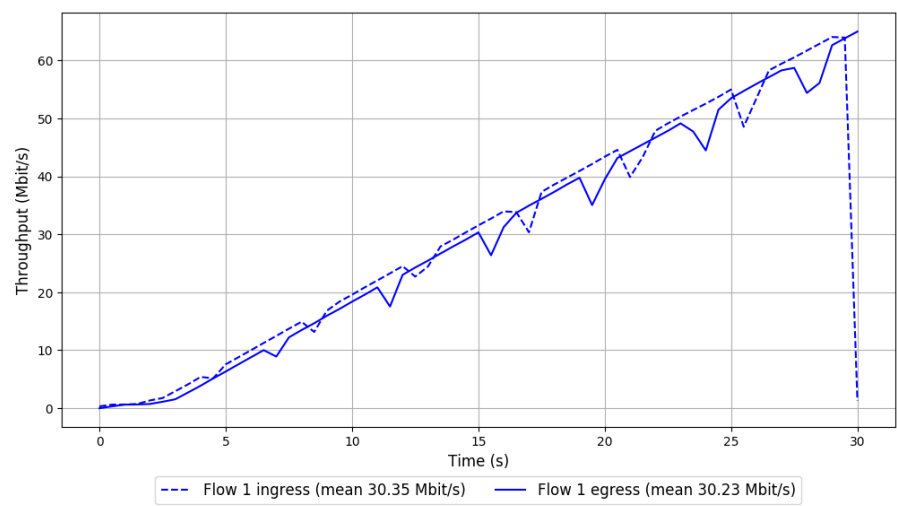


Run 2: Statistics of LEDBAT

Start at: 2018-06-20 17:14:45
End at: 2018-06-20 17:15:15
Local clock offset: -0.496 ms
Remote clock offset: -0.113 ms

Below is generated by plot.py at 2018-06-20 20:48:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 30.23 Mbit/s
95th percentile per-packet one-way delay: 51.796 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 30.23 Mbit/s
95th percentile per-packet one-way delay: 51.796 ms
Loss rate: 0.72%

Run 2: Report of LEDBAT — Data Link

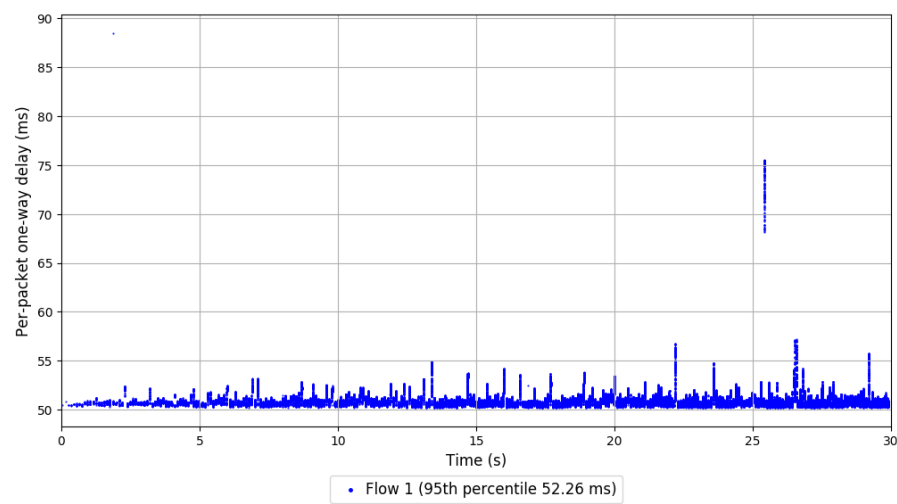
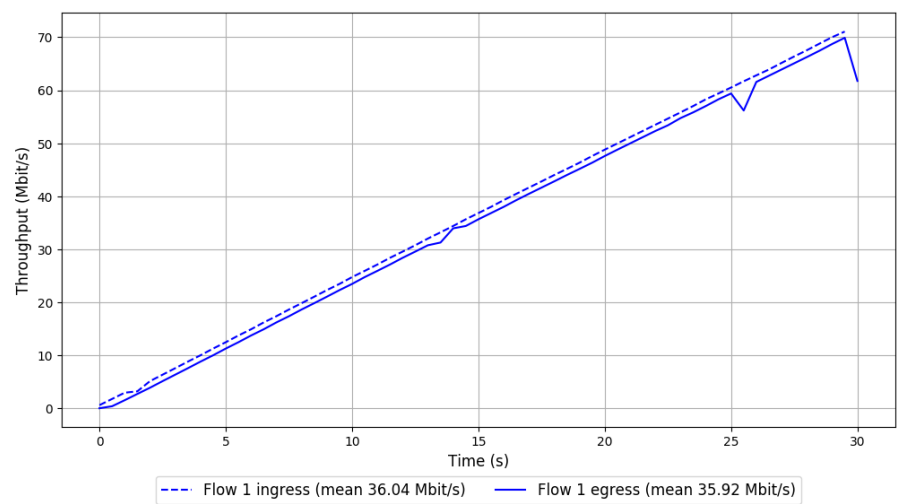


Run 3: Statistics of LEDBAT

Start at: 2018-06-20 17:34:54
End at: 2018-06-20 17:35:24
Local clock offset: 0.059 ms
Remote clock offset: -0.028 ms

Below is generated by plot.py at 2018-06-20 20:48:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 35.92 Mbit/s
95th percentile per-packet one-way delay: 52.257 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 35.92 Mbit/s
95th percentile per-packet one-way delay: 52.257 ms
Loss rate: 0.66%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-06-20 17:54:54

End at: 2018-06-20 17:55:24

Local clock offset: 0.065 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-06-20 20:48:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.63 Mbit/s

95th percentile per-packet one-way delay: 53.390 ms

Loss rate: 0.68%

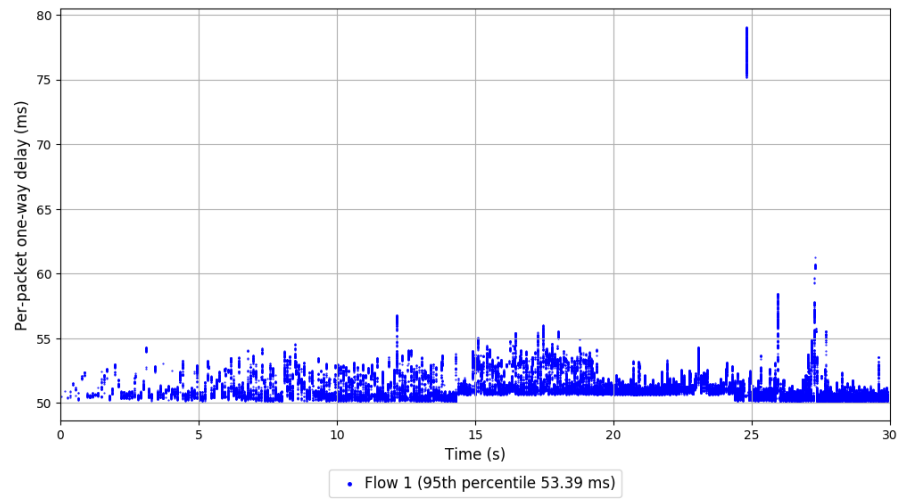
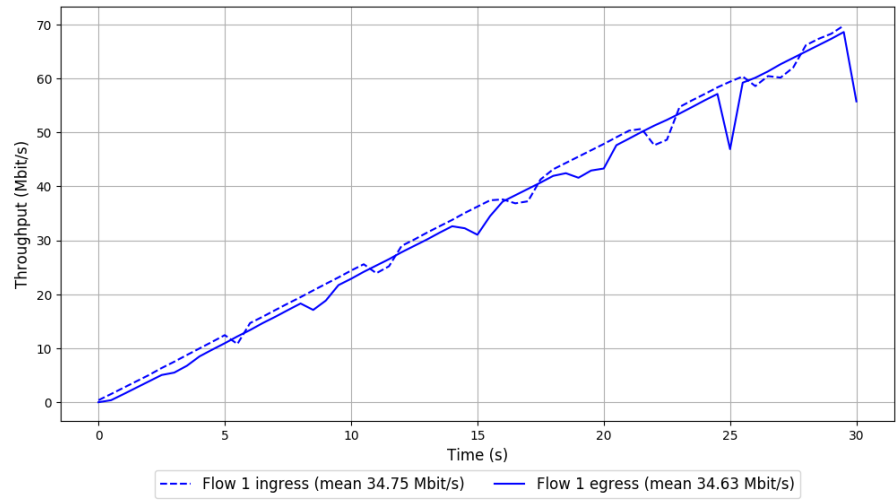
-- Flow 1:

Average throughput: 34.63 Mbit/s

95th percentile per-packet one-way delay: 53.390 ms

Loss rate: 0.68%

Run 4: Report of LEDBAT — Data Link

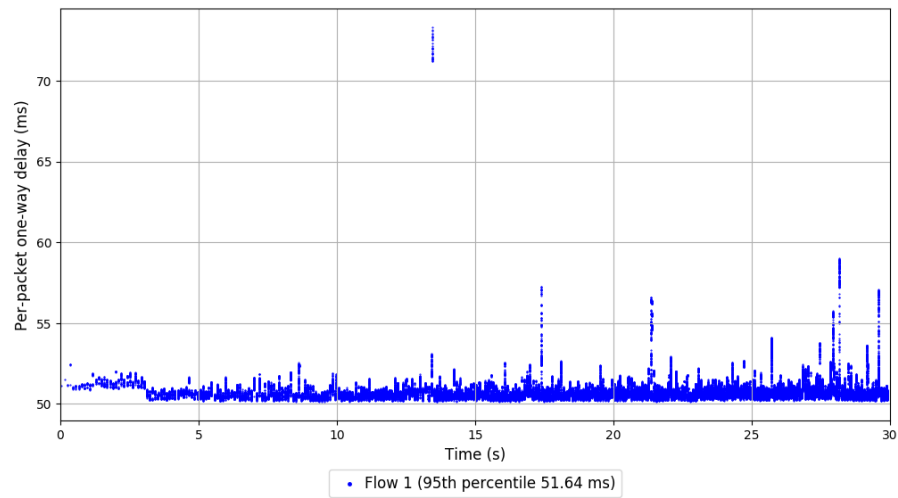
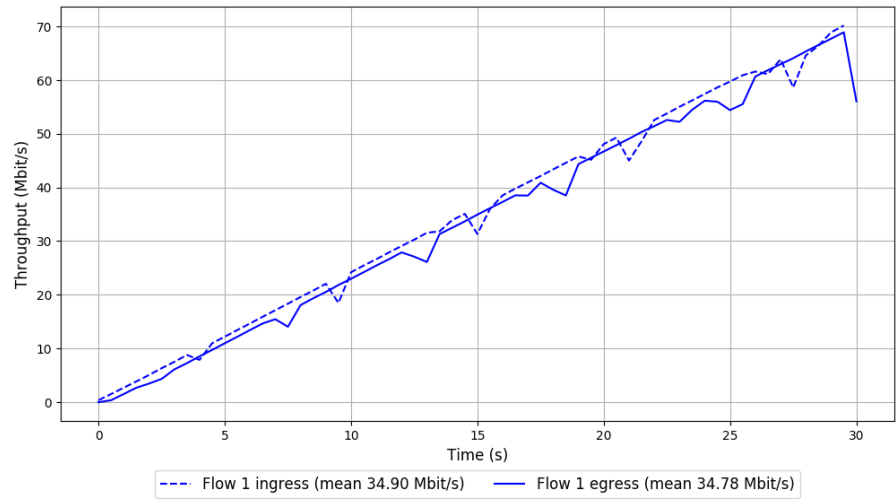


Run 5: Statistics of LEDBAT

Start at: 2018-06-20 18:15:06
End at: 2018-06-20 18:15:36
Local clock offset: 0.018 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2018-06-20 20:48:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 34.78 Mbit/s
95th percentile per-packet one-way delay: 51.640 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 34.78 Mbit/s
95th percentile per-packet one-way delay: 51.640 ms
Loss rate: 0.67%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-06-20 18:35:01

End at: 2018-06-20 18:35:31

Local clock offset: -0.006 ms

Remote clock offset: 0.149 ms

Below is generated by plot.py at 2018-06-20 20:48:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.56 Mbit/s

95th percentile per-packet one-way delay: 51.487 ms

Loss rate: 0.66%

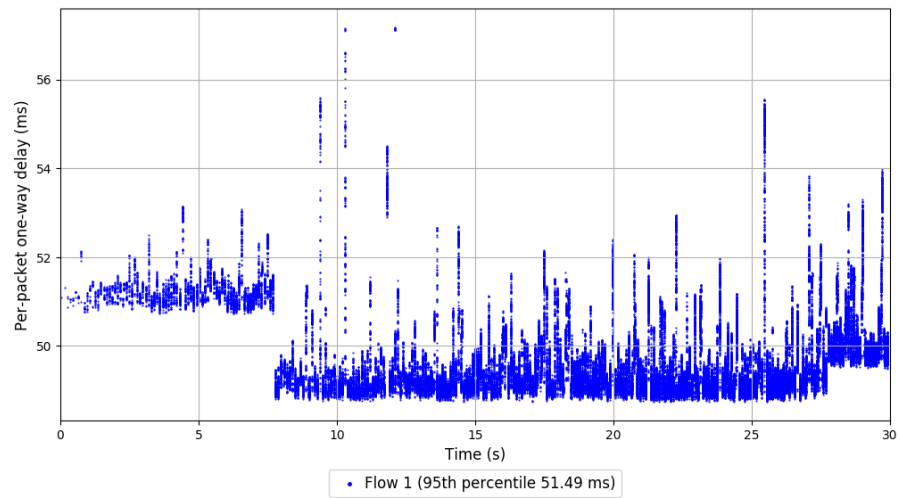
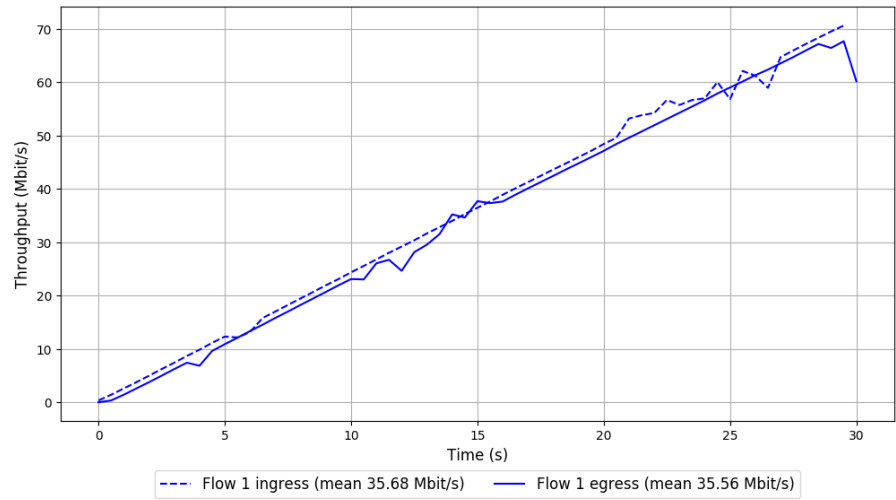
-- Flow 1:

Average throughput: 35.56 Mbit/s

95th percentile per-packet one-way delay: 51.487 ms

Loss rate: 0.66%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-06-20 18:55:00

End at: 2018-06-20 18:55:30

Local clock offset: -0.002 ms

Remote clock offset: 0.343 ms

Below is generated by plot.py at 2018-06-20 20:48:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.20 Mbit/s

95th percentile per-packet one-way delay: 50.571 ms

Loss rate: 0.67%

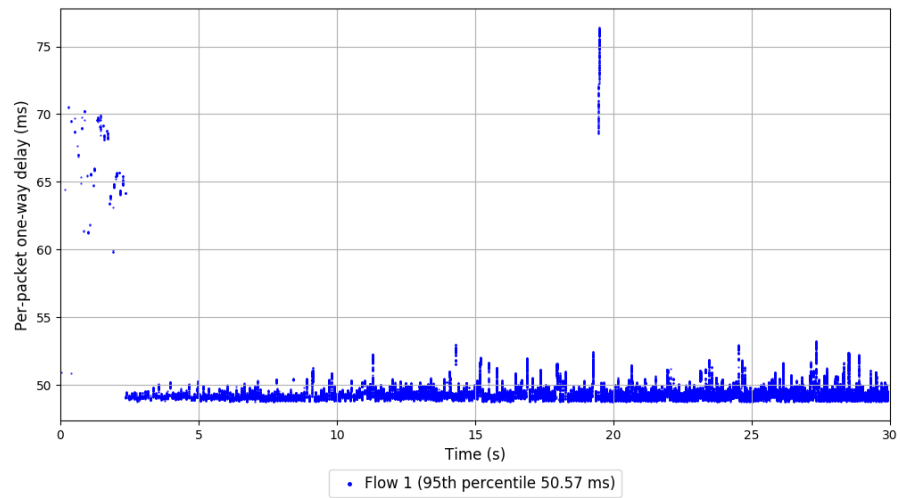
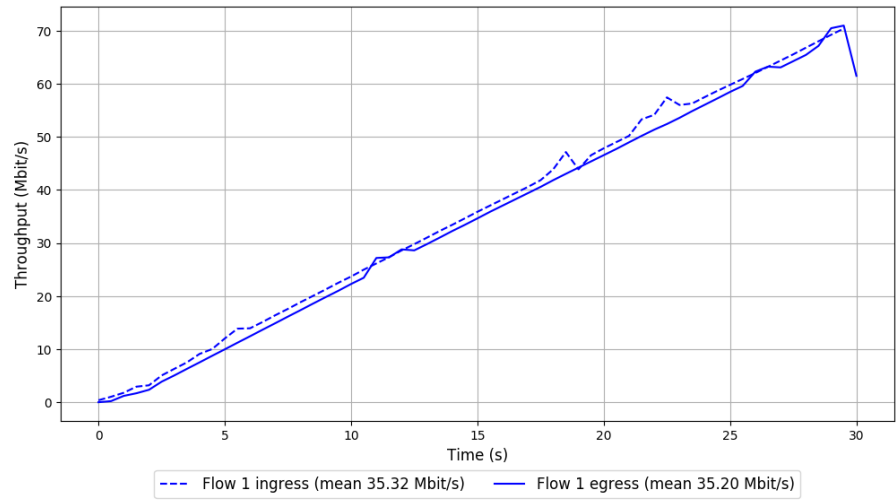
-- Flow 1:

Average throughput: 35.20 Mbit/s

95th percentile per-packet one-way delay: 50.571 ms

Loss rate: 0.67%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-06-20 19:14:53

End at: 2018-06-20 19:15:23

Local clock offset: -0.352 ms

Remote clock offset: 0.03 ms

Below is generated by plot.py at 2018-06-20 20:48:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.06 Mbit/s

95th percentile per-packet one-way delay: 51.698 ms

Loss rate: 0.67%

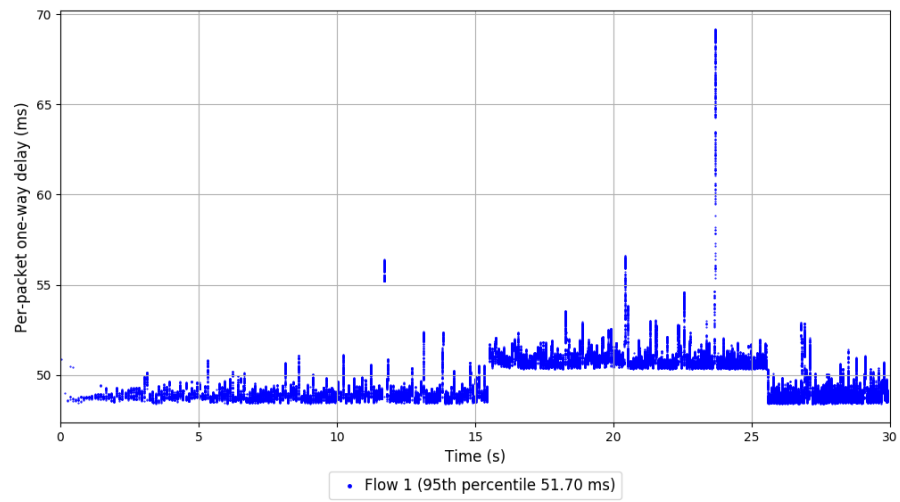
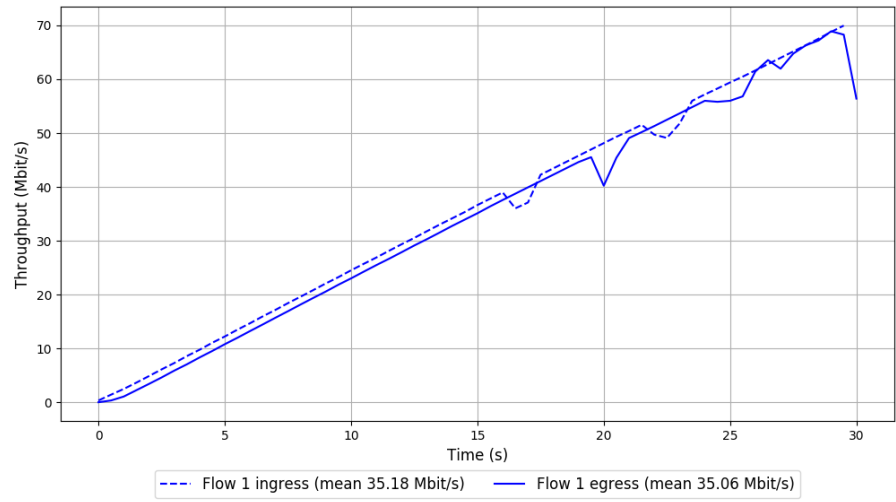
-- Flow 1:

Average throughput: 35.06 Mbit/s

95th percentile per-packet one-way delay: 51.698 ms

Loss rate: 0.67%

Run 8: Report of LEDBAT — Data Link

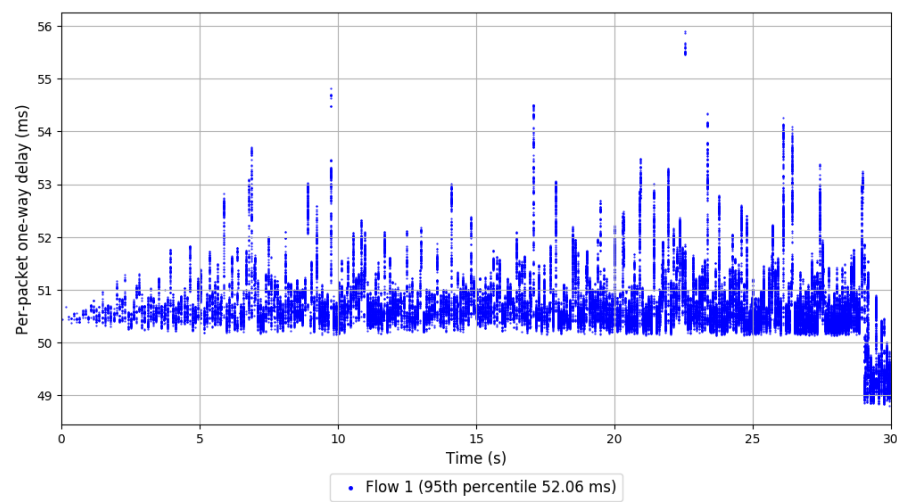
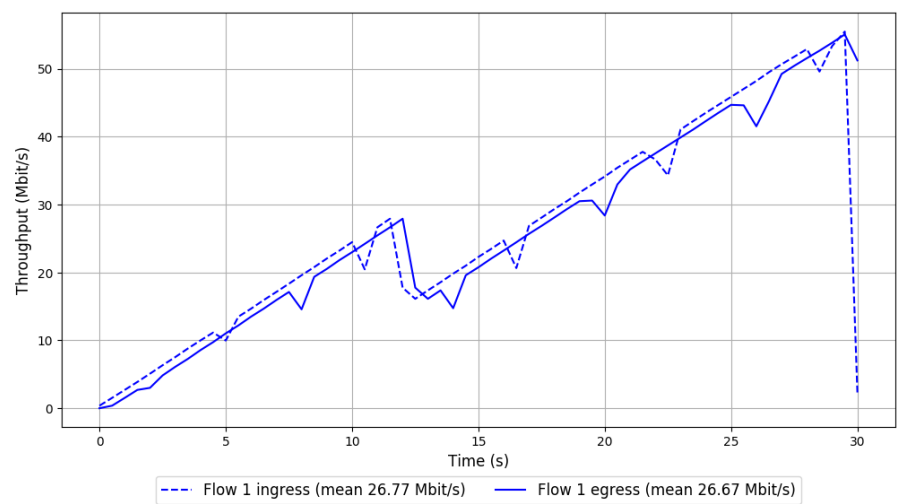


Run 9: Statistics of LEDBAT

Start at: 2018-06-20 19:34:50
End at: 2018-06-20 19:35:20
Local clock offset: 0.064 ms
Remote clock offset: -0.094 ms

Below is generated by plot.py at 2018-06-20 20:48:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 26.67 Mbit/s
95th percentile per-packet one-way delay: 52.059 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 26.67 Mbit/s
95th percentile per-packet one-way delay: 52.059 ms
Loss rate: 0.70%

Run 9: Report of LEDBAT — Data Link

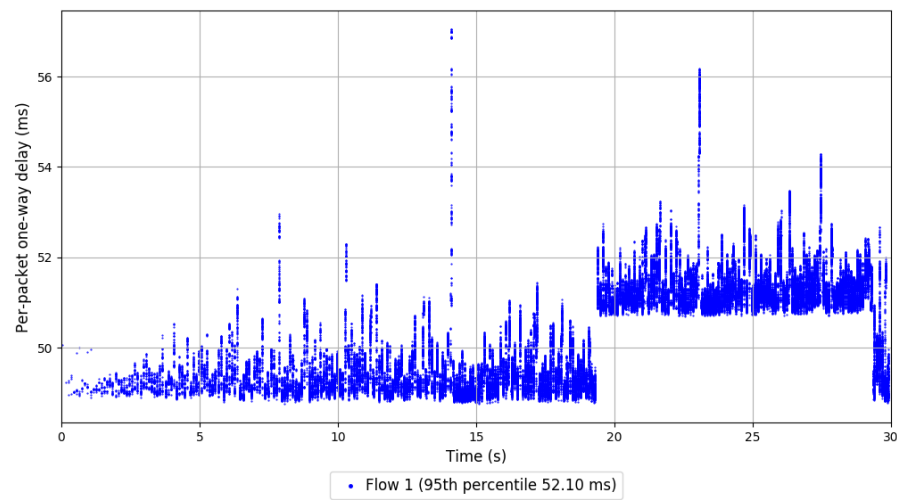
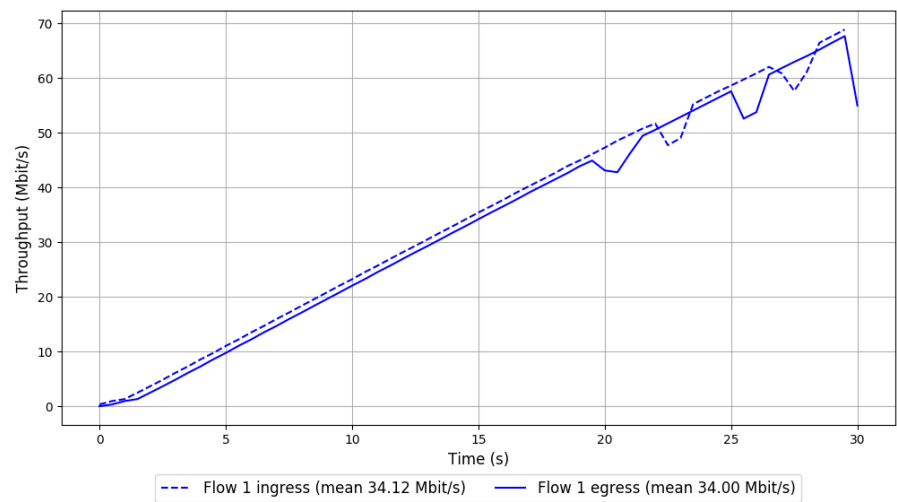


Run 10: Statistics of LEDBAT

Start at: 2018-06-20 19:54:50
End at: 2018-06-20 19:55:20
Local clock offset: -0.053 ms
Remote clock offset: -0.143 ms

Below is generated by plot.py at 2018-06-20 20:48:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 34.00 Mbit/s
95th percentile per-packet one-way delay: 52.102 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 34.00 Mbit/s
95th percentile per-packet one-way delay: 52.102 ms
Loss rate: 0.68%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-06-20 16:45:50

End at: 2018-06-20 16:46:20

Local clock offset: 0.497 ms

Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-06-20 20:48:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 343.80 Mbit/s

95th percentile per-packet one-way delay: 123.065 ms

Loss rate: 0.35%

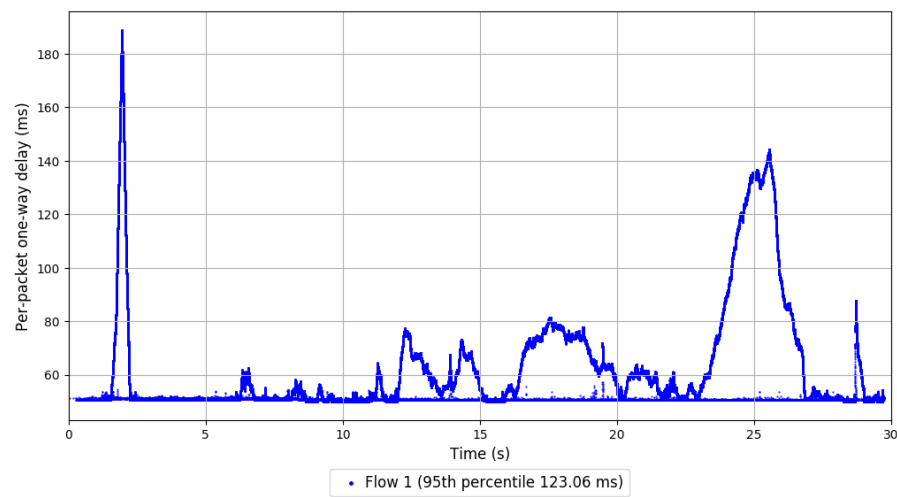
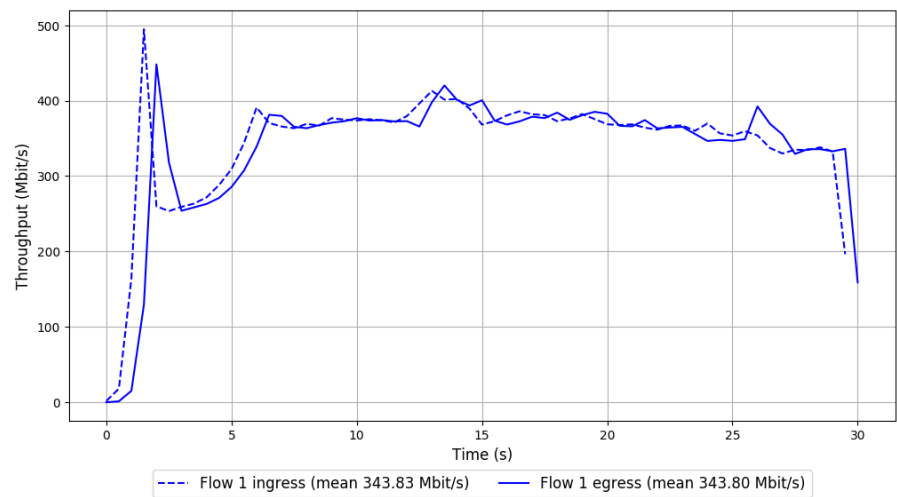
-- Flow 1:

Average throughput: 343.80 Mbit/s

95th percentile per-packet one-way delay: 123.065 ms

Loss rate: 0.35%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-06-20 17:05:48

End at: 2018-06-20 17:06:18

Local clock offset: -0.081 ms

Remote clock offset: -0.079 ms

Below is generated by plot.py at 2018-06-20 20:48:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 321.05 Mbit/s

95th percentile per-packet one-way delay: 169.358 ms

Loss rate: 0.40%

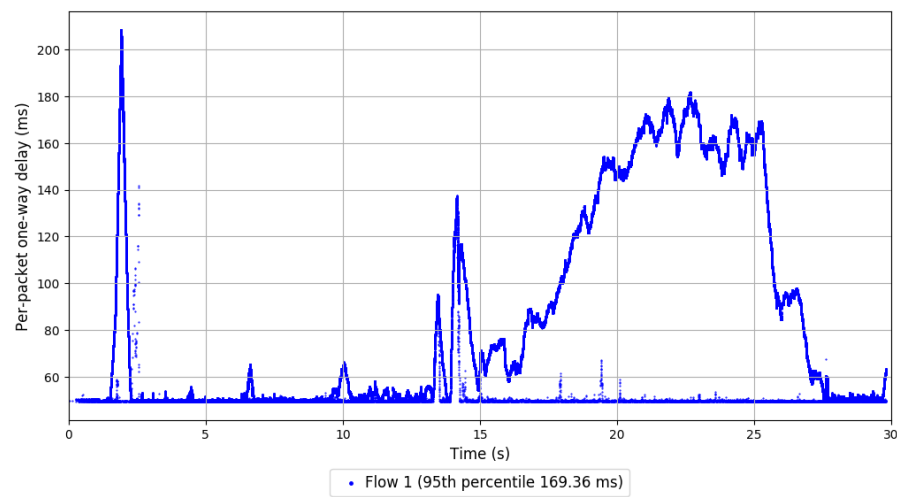
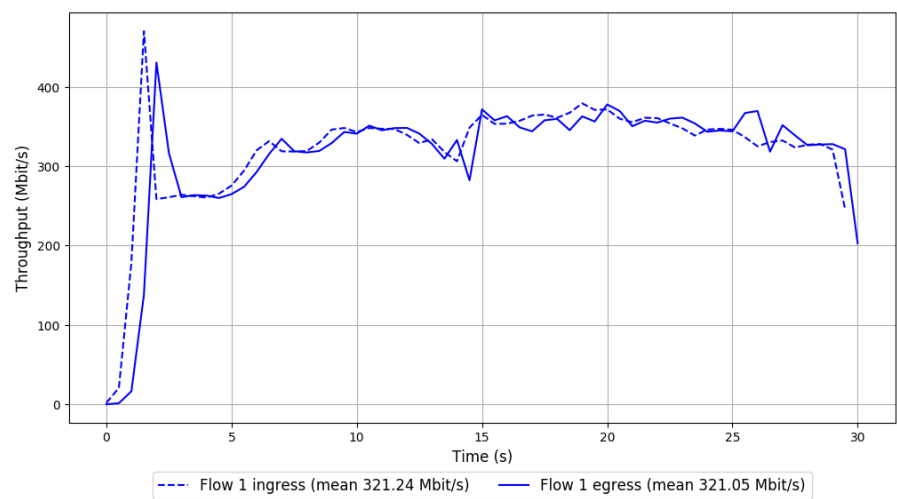
-- Flow 1:

Average throughput: 321.05 Mbit/s

95th percentile per-packet one-way delay: 169.358 ms

Loss rate: 0.40%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-06-20 17:25:44

End at: 2018-06-20 17:26:14

Local clock offset: -0.372 ms

Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-06-20 20:48:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 329.33 Mbit/s

95th percentile per-packet one-way delay: 66.087 ms

Loss rate: 0.43%

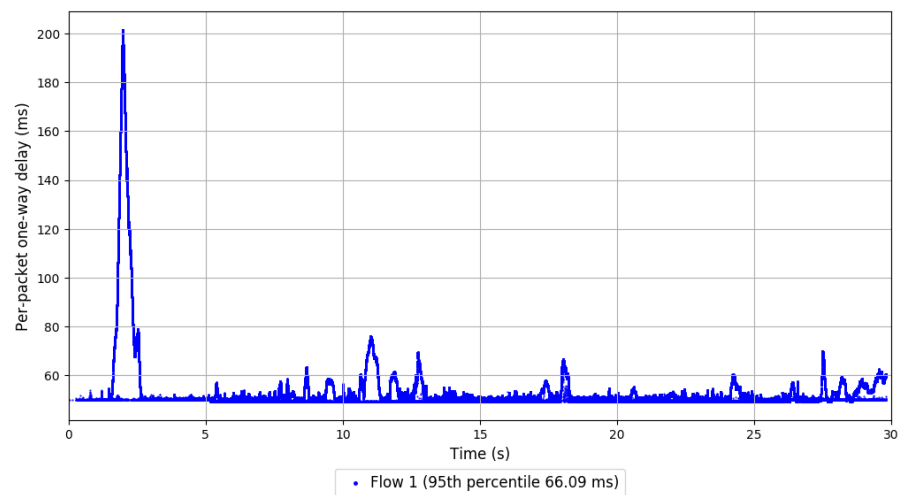
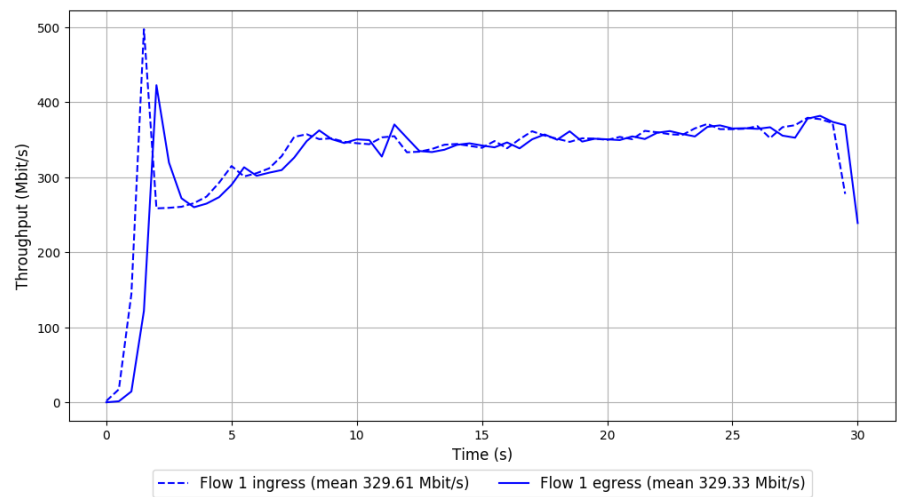
-- Flow 1:

Average throughput: 329.33 Mbit/s

95th percentile per-packet one-way delay: 66.087 ms

Loss rate: 0.43%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-06-20 17:45:59

End at: 2018-06-20 17:46:29

Local clock offset: 0.072 ms

Remote clock offset: -0.01 ms

Below is generated by plot.py at 2018-06-20 20:48:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 337.77 Mbit/s

95th percentile per-packet one-way delay: 95.539 ms

Loss rate: 0.41%

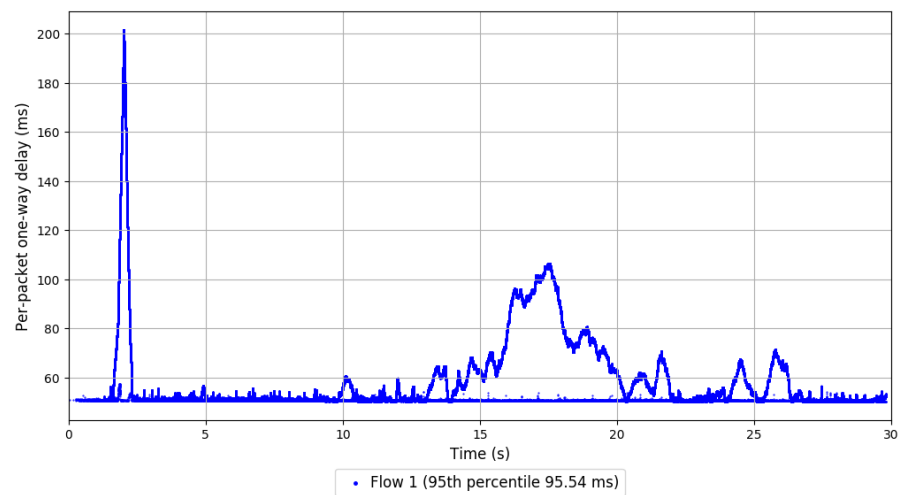
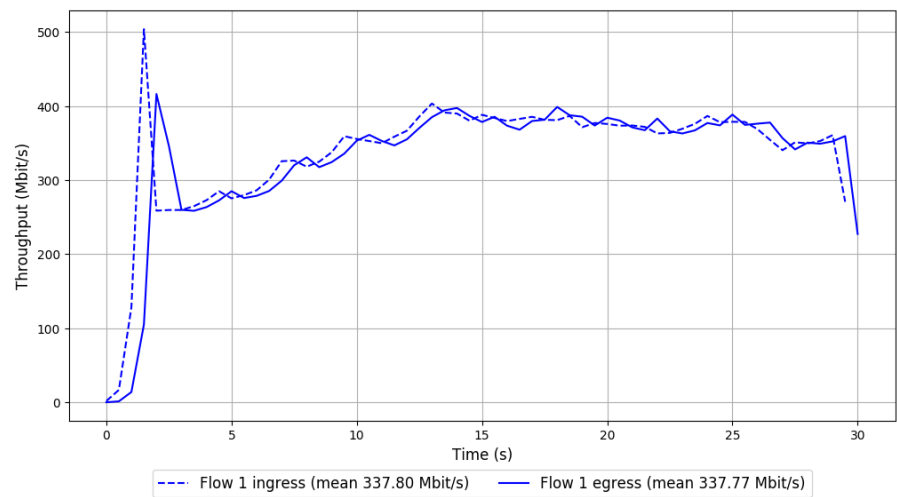
-- Flow 1:

Average throughput: 337.77 Mbit/s

95th percentile per-packet one-way delay: 95.539 ms

Loss rate: 0.41%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-06-20 18:05:58

End at: 2018-06-20 18:06:28

Local clock offset: 0.046 ms

Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-06-20 20:48:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 338.51 Mbit/s

95th percentile per-packet one-way delay: 205.354 ms

Loss rate: 0.68%

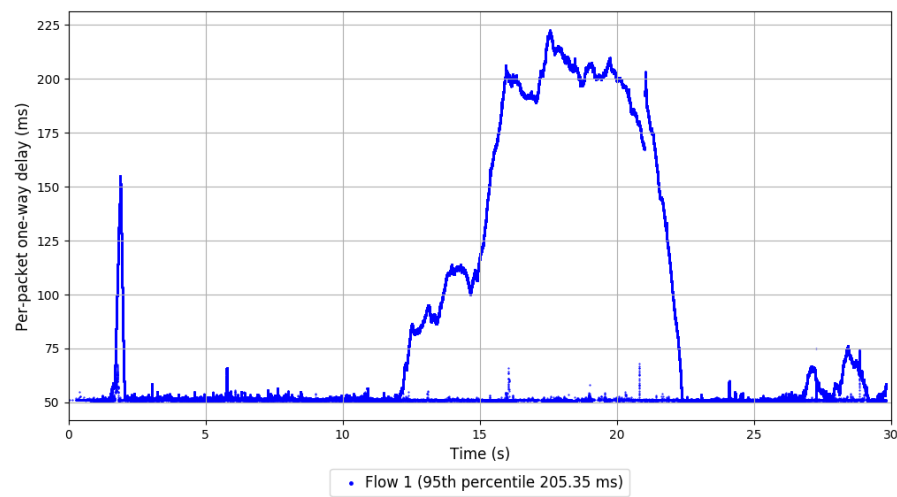
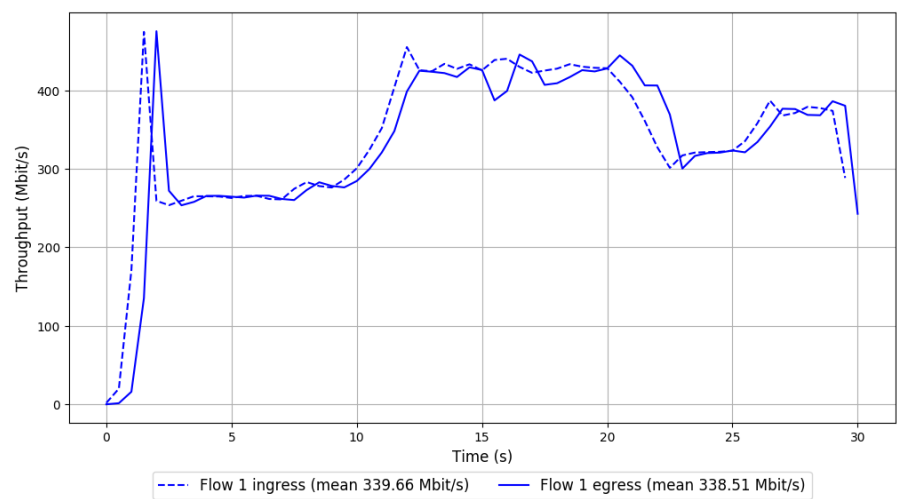
-- Flow 1:

Average throughput: 338.51 Mbit/s

95th percentile per-packet one-way delay: 205.354 ms

Loss rate: 0.68%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-06-20 18:26:03

End at: 2018-06-20 18:26:33

Local clock offset: 0.378 ms

Remote clock offset: -0.046 ms

Below is generated by plot.py at 2018-06-20 20:48:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 366.07 Mbit/s

95th percentile per-packet one-way delay: 61.210 ms

Loss rate: 0.58%

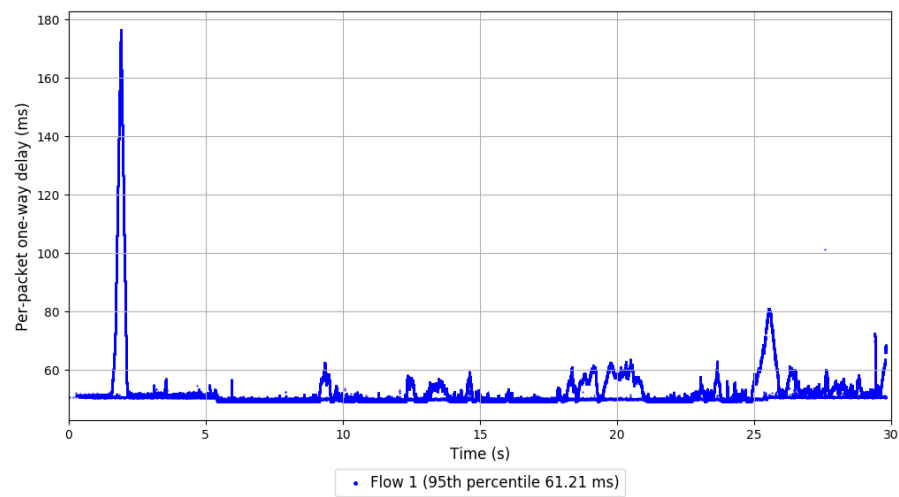
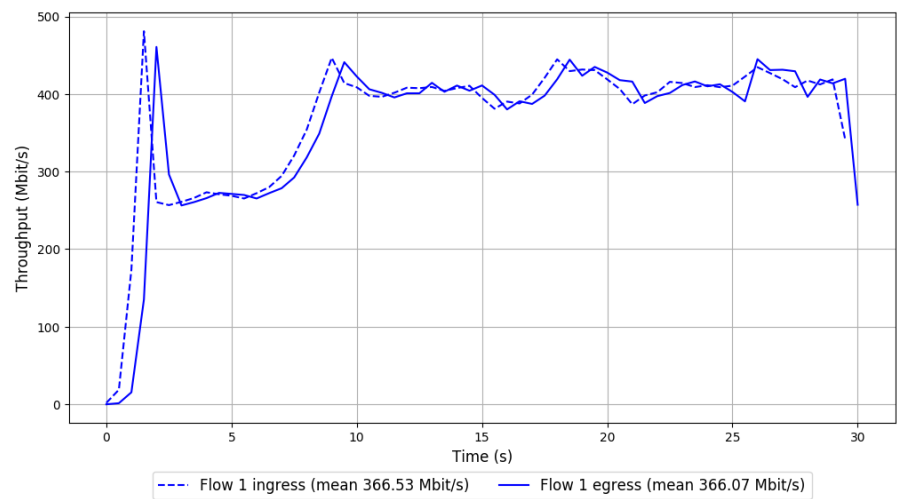
-- Flow 1:

Average throughput: 366.07 Mbit/s

95th percentile per-packet one-way delay: 61.210 ms

Loss rate: 0.58%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-06-20 18:45:54

End at: 2018-06-20 18:46:24

Local clock offset: 0.001 ms

Remote clock offset: 0.282 ms

Below is generated by plot.py at 2018-06-20 20:48:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 319.84 Mbit/s

95th percentile per-packet one-way delay: 56.924 ms

Loss rate: 0.37%

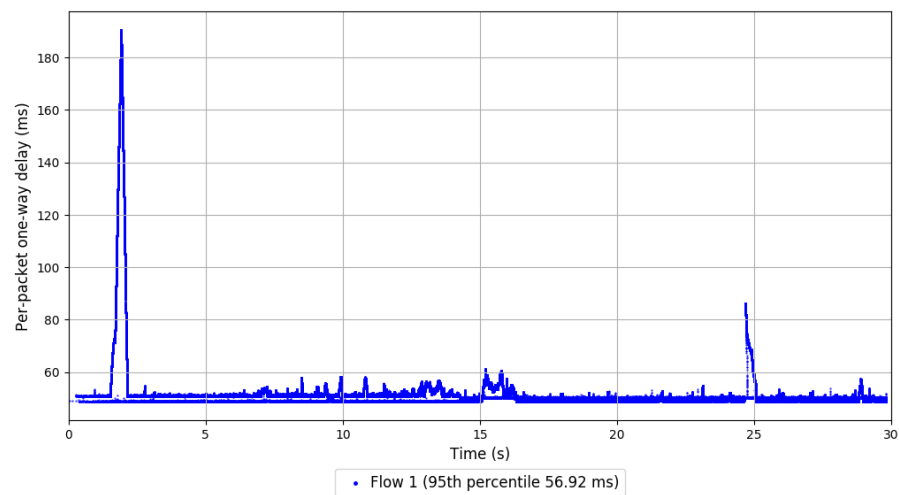
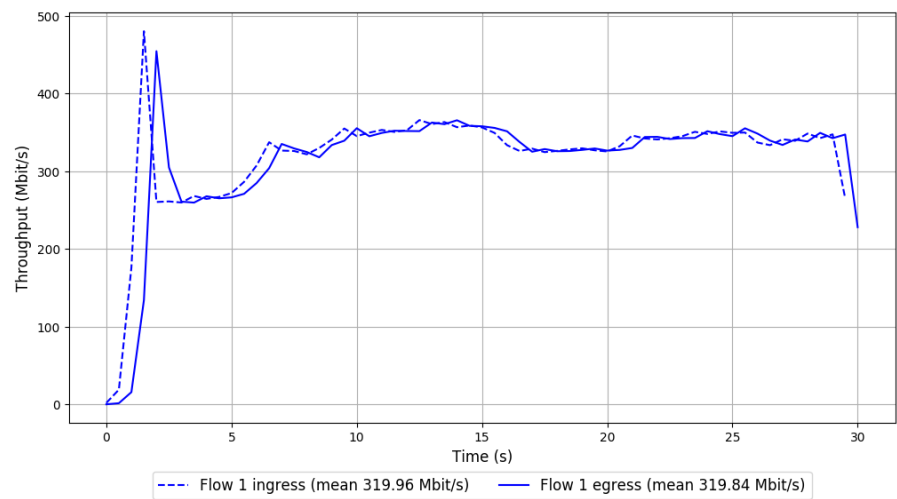
-- Flow 1:

Average throughput: 319.84 Mbit/s

95th percentile per-packet one-way delay: 56.924 ms

Loss rate: 0.37%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-06-20 19:05:54

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

Local clock offset: 0.002 ms

Remote clock offset: 0.26 ms

Below is generated by plot.py at 2018-06-20 20:51:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 318.97 Mbit/s

95th percentile per-packet one-way delay: 207.832 ms

Loss rate: 6.13%

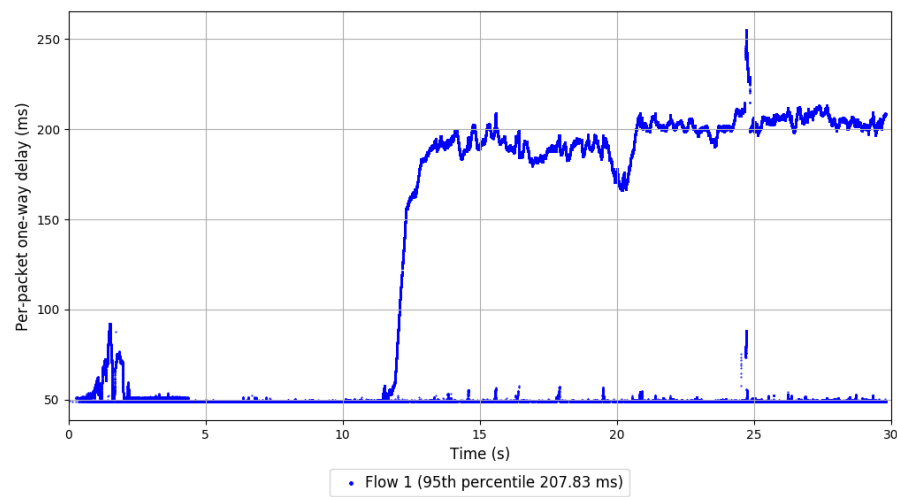
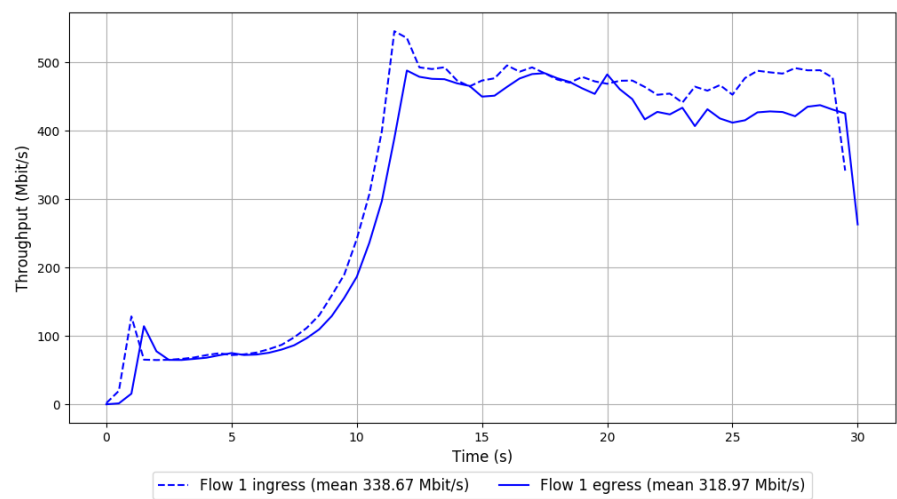
-- Flow 1:

Average throughput: 318.97 Mbit/s

95th percentile per-packet one-way delay: 207.832 ms

Loss rate: 6.13%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-06-20 19:25:50

End at: 2018-06-20 19:26:20

Local clock offset: 0.063 ms

Remote clock offset: -0.064 ms

Below is generated by plot.py at 2018-06-20 20:53:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 438.21 Mbit/s

95th percentile per-packet one-way delay: 203.033 ms

Loss rate: 6.94%

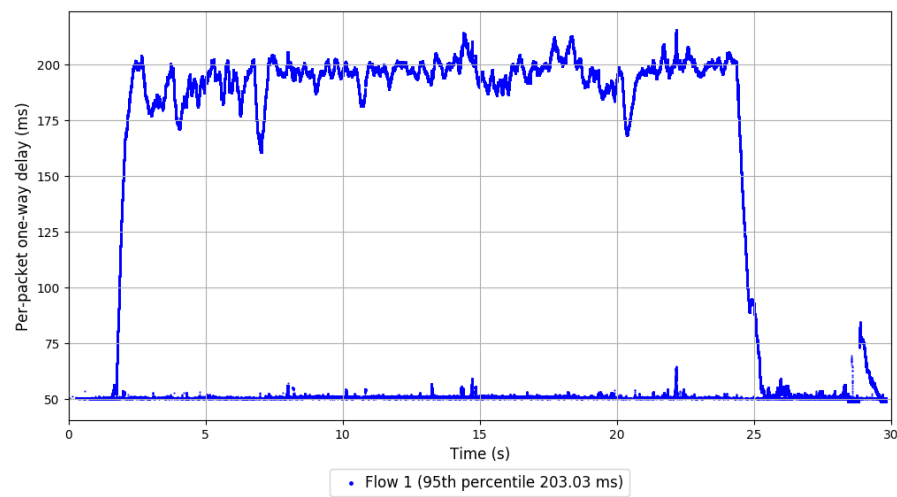
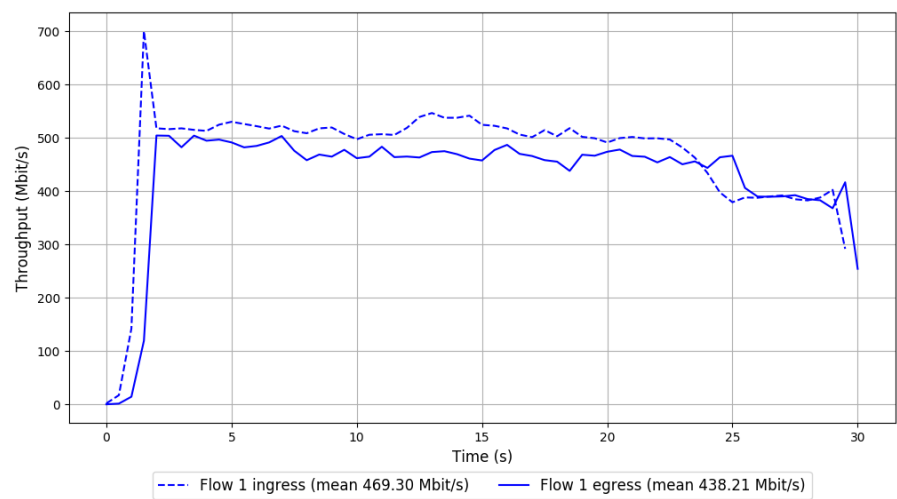
-- Flow 1:

Average throughput: 438.21 Mbit/s

95th percentile per-packet one-way delay: 203.033 ms

Loss rate: 6.94%

Run 9: Report of PCC-Allegro — Data Link

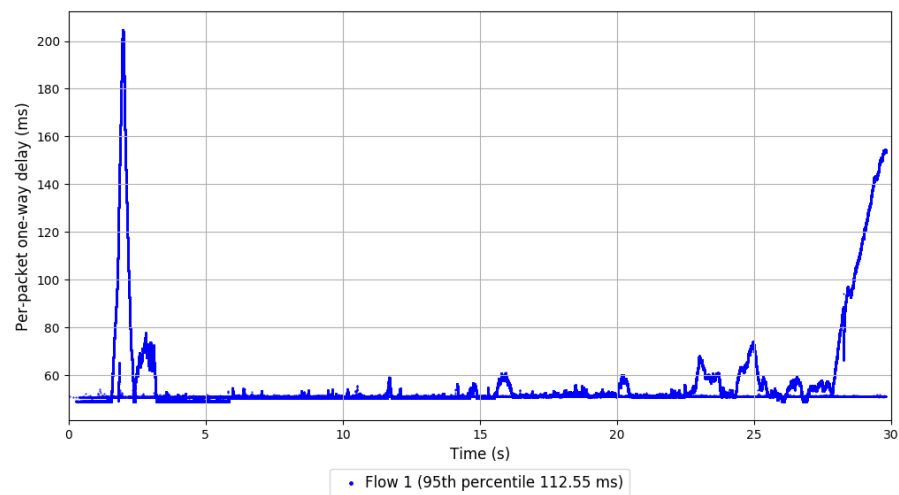
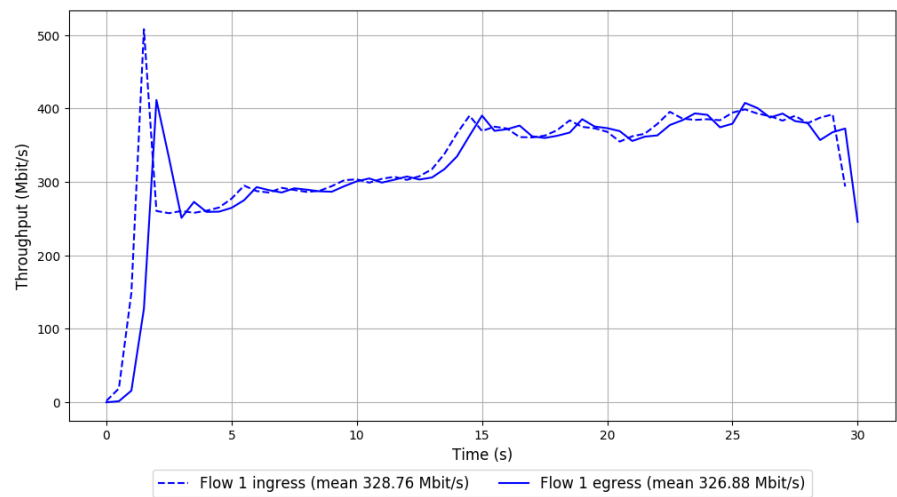


Run 10: Statistics of PCC-Allegro

Start at: 2018-06-20 19:45:43
End at: 2018-06-20 19:46:13
Local clock offset: 0.029 ms
Remote clock offset: -0.091 ms

Below is generated by plot.py at 2018-06-20 20:53:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 326.88 Mbit/s
95th percentile per-packet one-way delay: 112.550 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 326.88 Mbit/s
95th percentile per-packet one-way delay: 112.550 ms
Loss rate: 0.91%

Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-06-20 16:41:53

End at: 2018-06-20 16:42:23

Local clock offset: 0.506 ms

Remote clock offset: -0.049 ms

Below is generated by plot.py at 2018-06-20 20:53:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.09 Mbit/s

95th percentile per-packet one-way delay: 51.382 ms

Loss rate: 0.41%

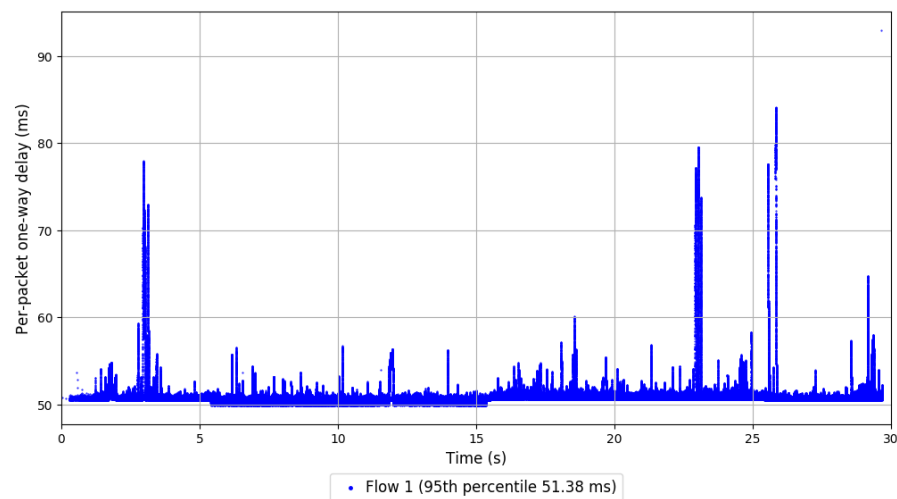
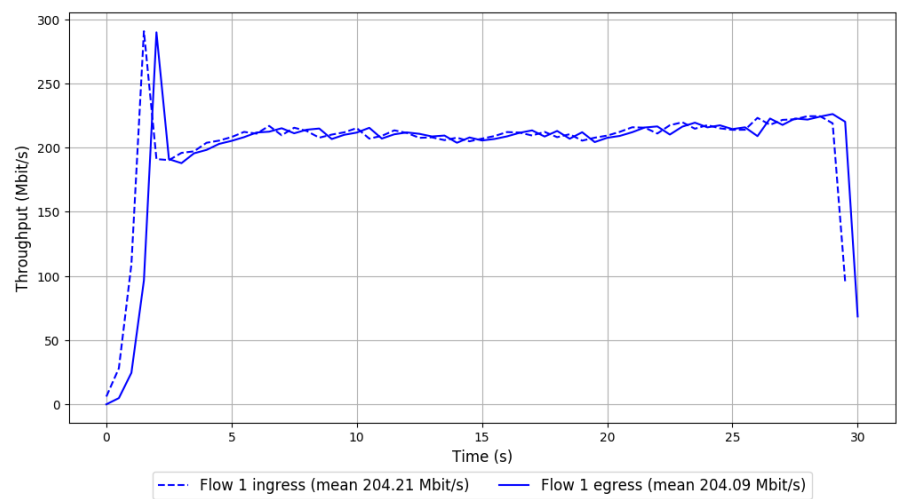
-- Flow 1:

Average throughput: 204.09 Mbit/s

95th percentile per-packet one-way delay: 51.382 ms

Loss rate: 0.41%

Run 1: Report of PCC-Expr — Data Link

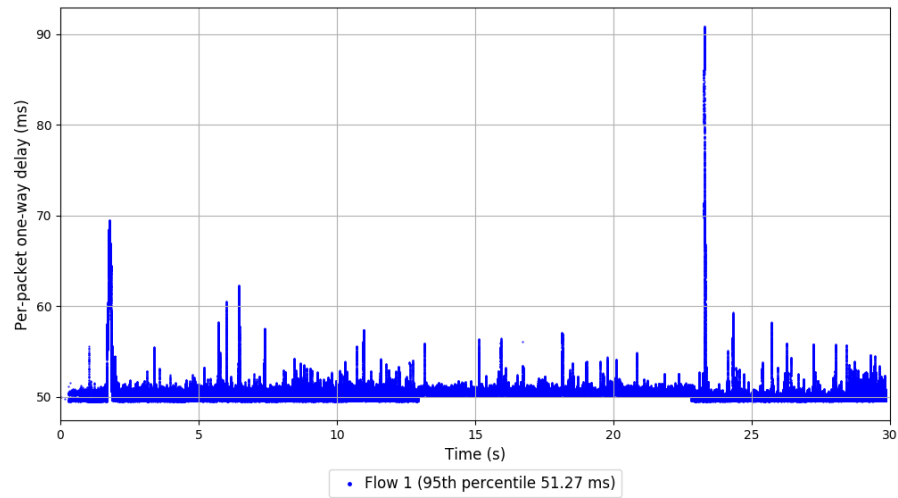
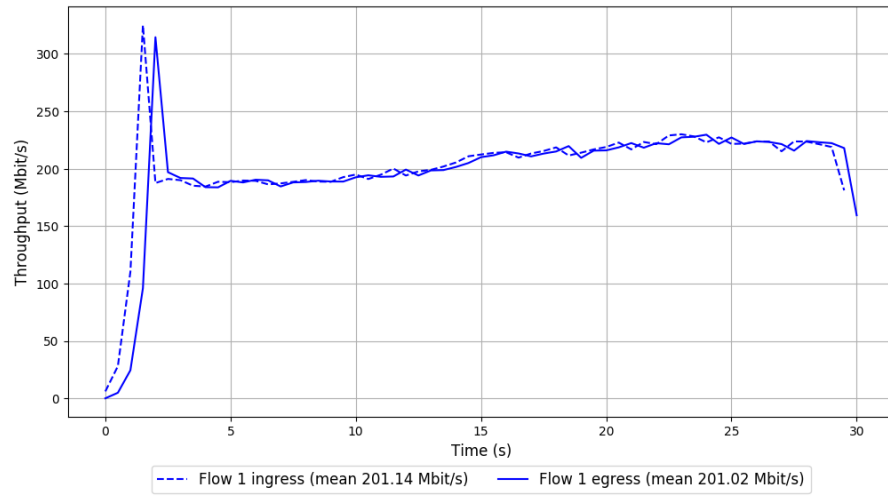


Run 2: Statistics of PCC-Expr

Start at: 2018-06-20 17:01:56
End at: 2018-06-20 17:02:26
Local clock offset: -0.035 ms
Remote clock offset: -0.104 ms

Below is generated by plot.py at 2018-06-20 20:53:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 201.02 Mbit/s
95th percentile per-packet one-way delay: 51.267 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 201.02 Mbit/s
95th percentile per-packet one-way delay: 51.267 ms
Loss rate: 0.40%

Run 2: Report of PCC-Expr — Data Link

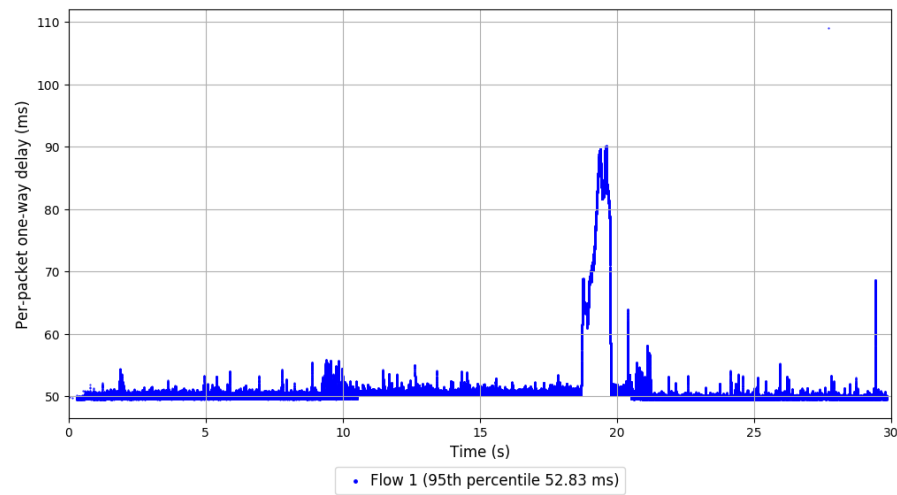
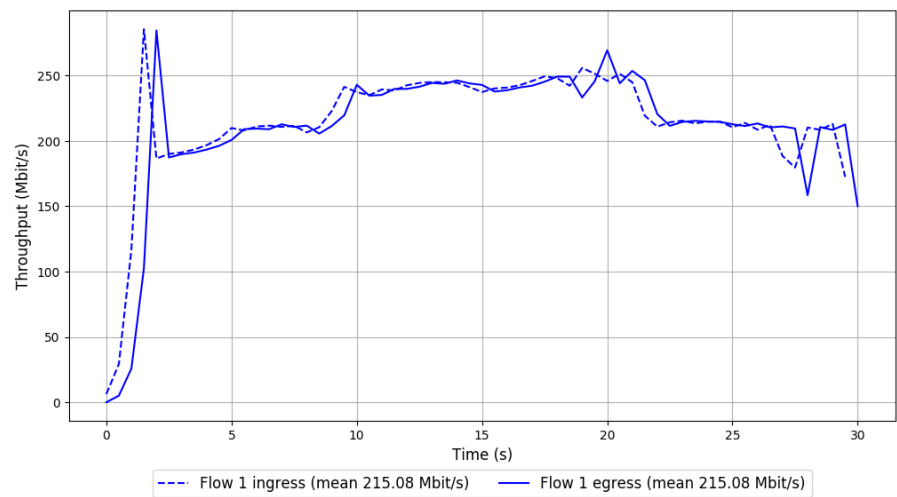


Run 3: Statistics of PCC-Expr

Start at: 2018-06-20 17:21:48
End at: 2018-06-20 17:22:18
Local clock offset: -0.038 ms
Remote clock offset: -0.101 ms

Below is generated by plot.py at 2018-06-20 20:54:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 215.08 Mbit/s
95th percentile per-packet one-way delay: 52.828 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 215.08 Mbit/s
95th percentile per-packet one-way delay: 52.828 ms
Loss rate: 0.34%

Run 3: Report of PCC-Expr — Data Link

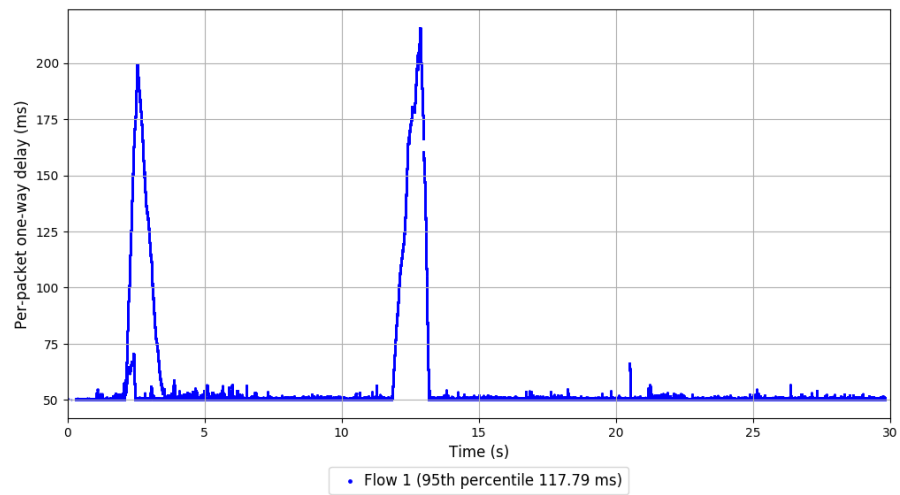
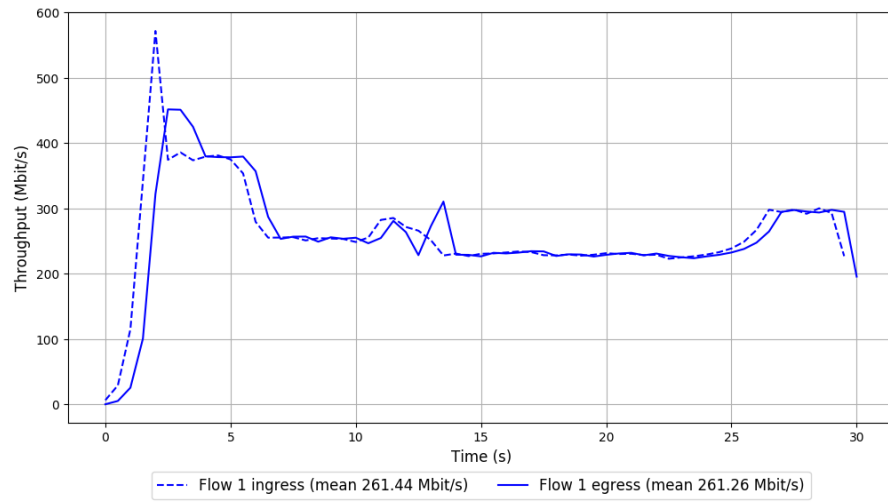


Run 4: Statistics of PCC-Expr

Start at: 2018-06-20 17:41:59
End at: 2018-06-20 17:42:29
Local clock offset: 0.091 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-06-20 20:56:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 261.26 Mbit/s
95th percentile per-packet one-way delay: 117.793 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 261.26 Mbit/s
95th percentile per-packet one-way delay: 117.793 ms
Loss rate: 0.41%

Run 4: Report of PCC-Expr — Data Link

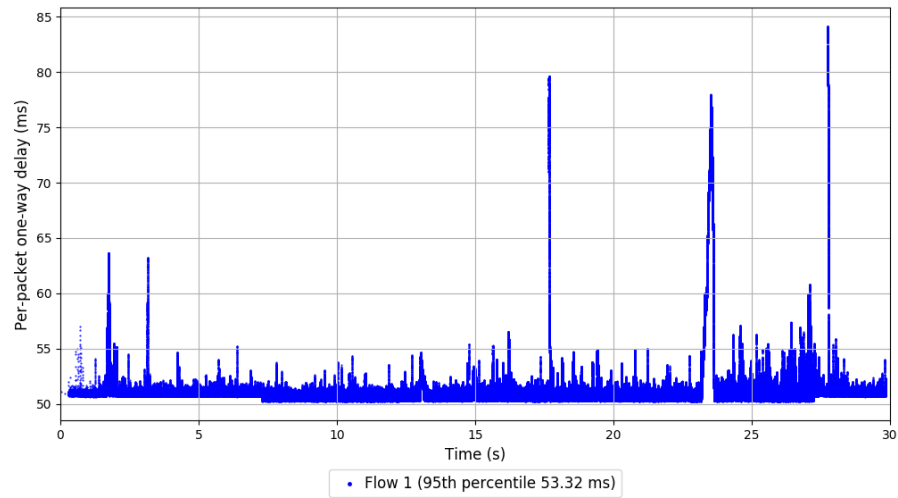
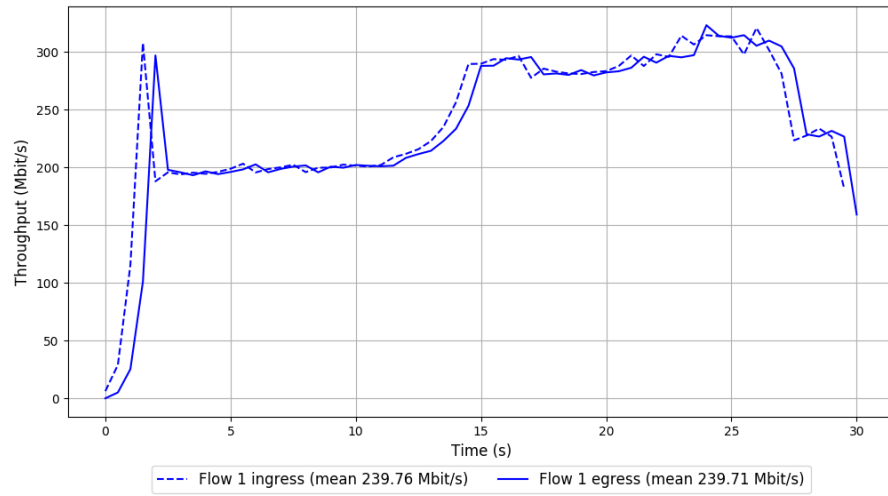


Run 5: Statistics of PCC-Expr

Start at: 2018-06-20 18:02:01
End at: 2018-06-20 18:02:31
Local clock offset: 0.015 ms
Remote clock offset: -0.064 ms

Below is generated by plot.py at 2018-06-20 20:56:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 239.71 Mbit/s
95th percentile per-packet one-way delay: 53.323 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 239.71 Mbit/s
95th percentile per-packet one-way delay: 53.323 ms
Loss rate: 0.36%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-06-20 18:22:09

End at: 2018-06-20 18:22:39

Local clock offset: 0.044 ms

Remote clock offset: -0.028 ms

Below is generated by plot.py at 2018-06-20 20:57:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.67 Mbit/s

95th percentile per-packet one-way delay: 50.695 ms

Loss rate: 0.35%

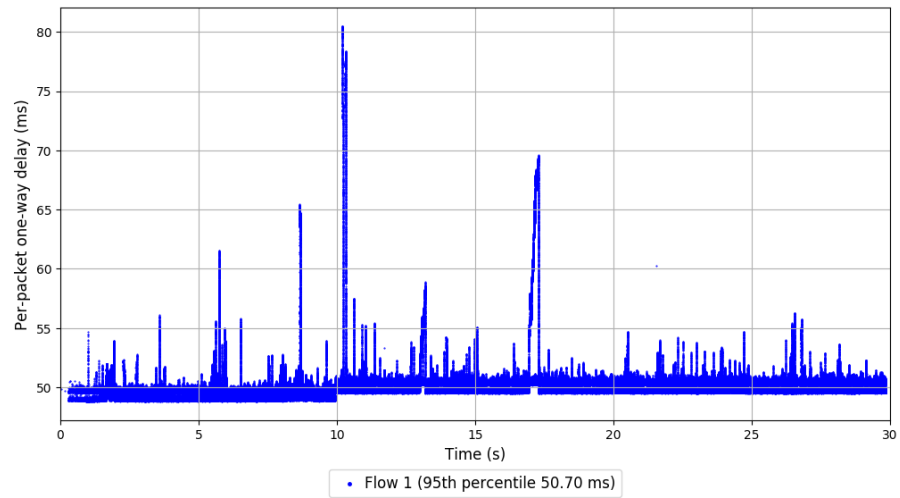
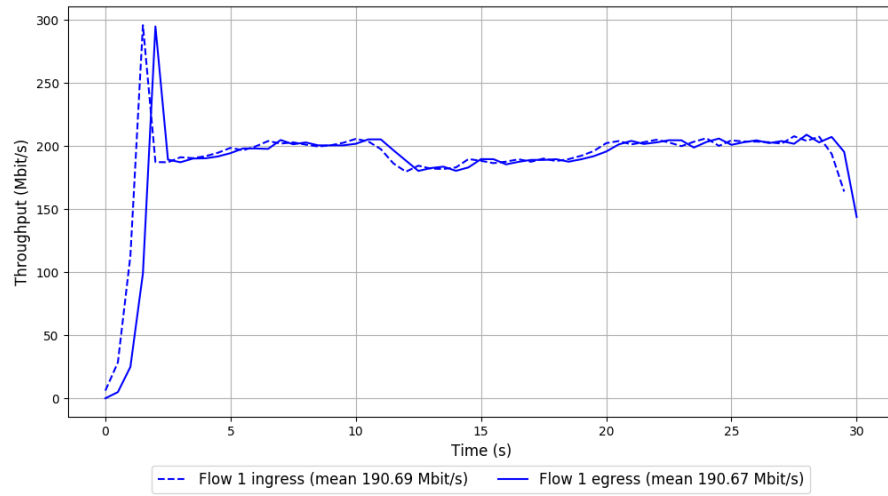
-- Flow 1:

Average throughput: 190.67 Mbit/s

95th percentile per-packet one-way delay: 50.695 ms

Loss rate: 0.35%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-06-20 18:42:03

End at: 2018-06-20 18:42:33

Local clock offset: 0.026 ms

Remote clock offset: 0.216 ms

Below is generated by plot.py at 2018-06-20 20:57:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.85 Mbit/s

95th percentile per-packet one-way delay: 51.158 ms

Loss rate: 0.30%

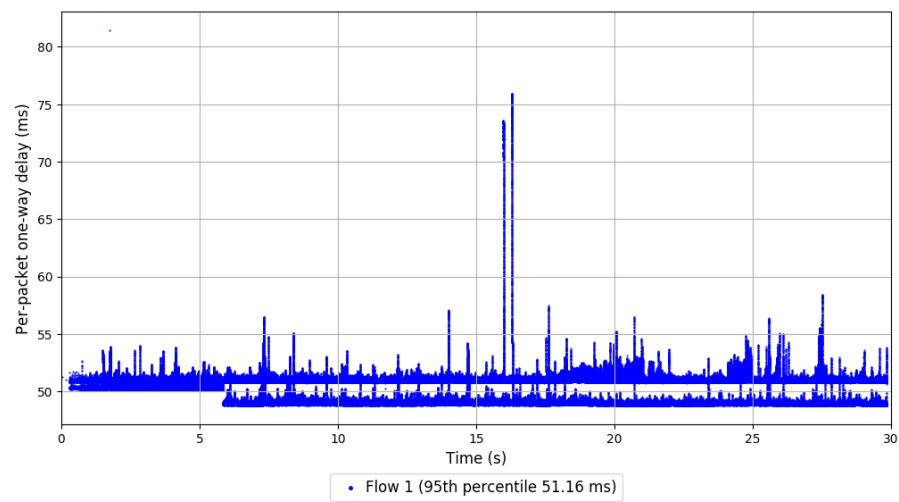
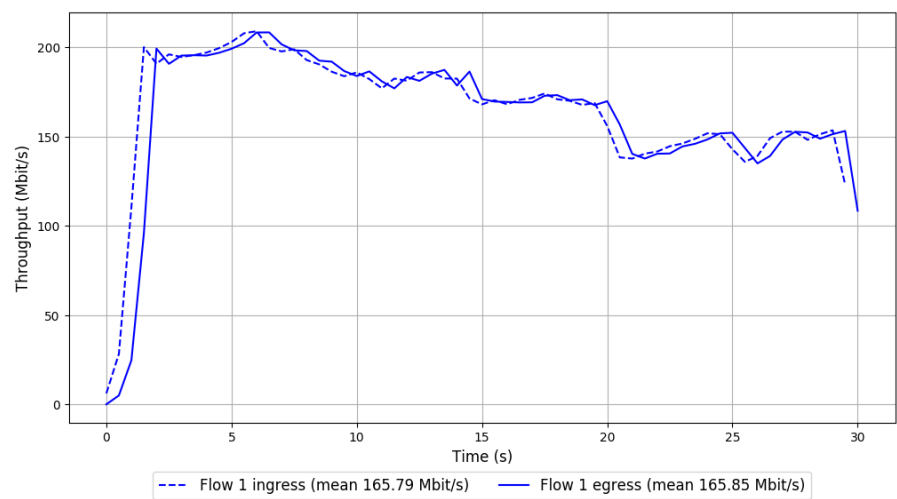
-- Flow 1:

Average throughput: 165.85 Mbit/s

95th percentile per-packet one-way delay: 51.158 ms

Loss rate: 0.30%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-06-20 19:01:59

End at: 2018-06-20 19:02:29

Local clock offset: -0.058 ms

Remote clock offset: 0.365 ms

Below is generated by plot.py at 2018-06-20 21:00:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.43 Mbit/s

95th percentile per-packet one-way delay: 108.655 ms

Loss rate: 2.26%

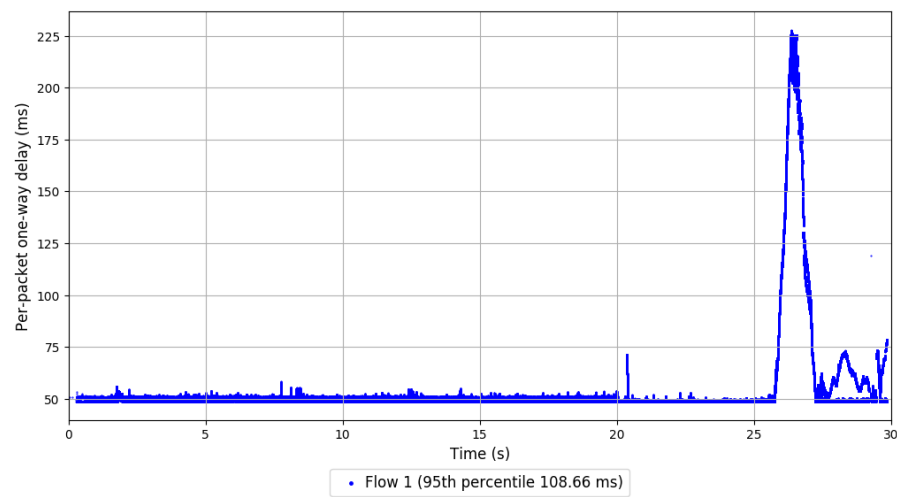
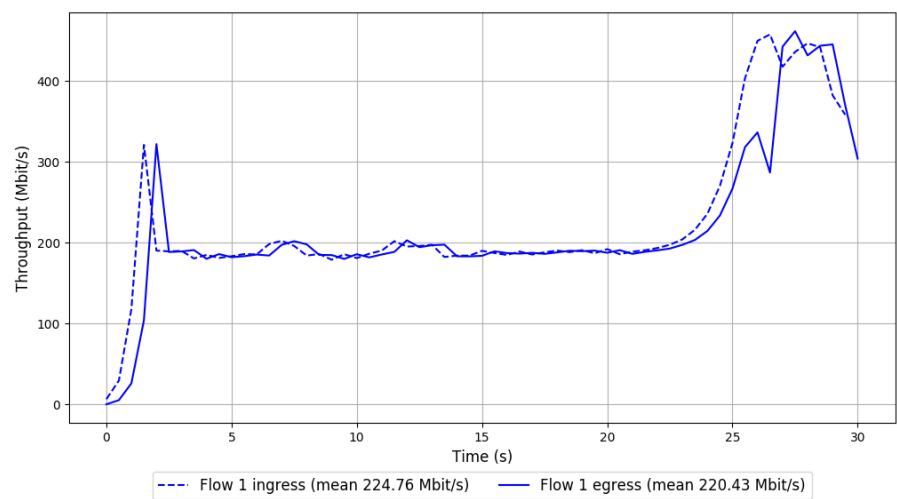
-- Flow 1:

Average throughput: 220.43 Mbit/s

95th percentile per-packet one-way delay: 108.655 ms

Loss rate: 2.26%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-06-20 19:21:53

End at: 2018-06-20 19:22:23

Local clock offset: 0.469 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-06-20 21:03:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 293.12 Mbit/s

95th percentile per-packet one-way delay: 64.060 ms

Loss rate: 0.42%

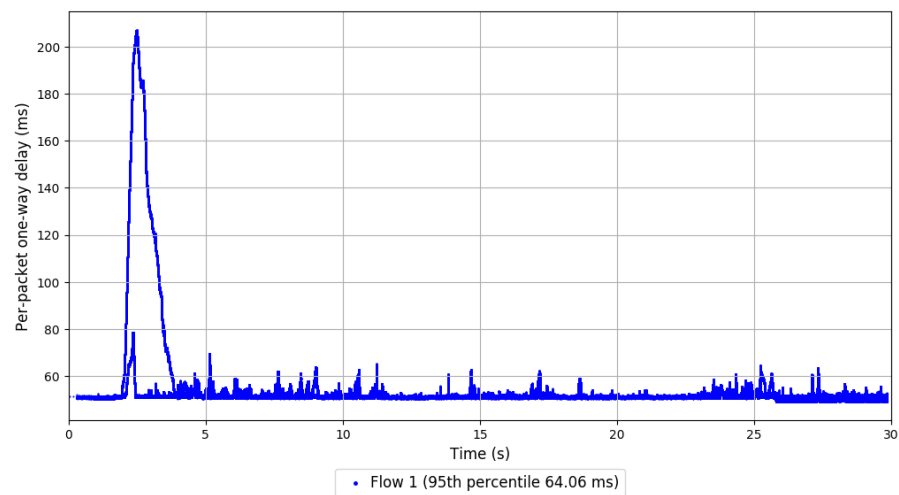
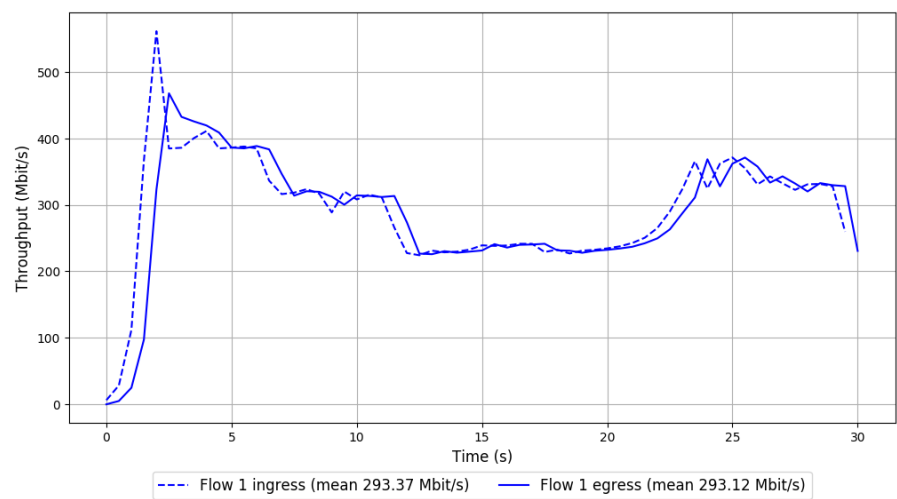
-- Flow 1:

Average throughput: 293.12 Mbit/s

95th percentile per-packet one-way delay: 64.060 ms

Loss rate: 0.42%

Run 9: Report of PCC-Expr — Data Link

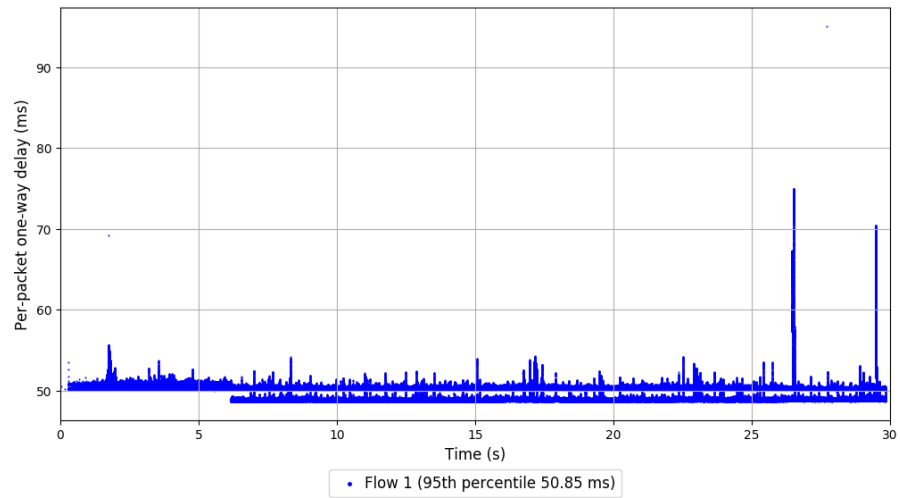
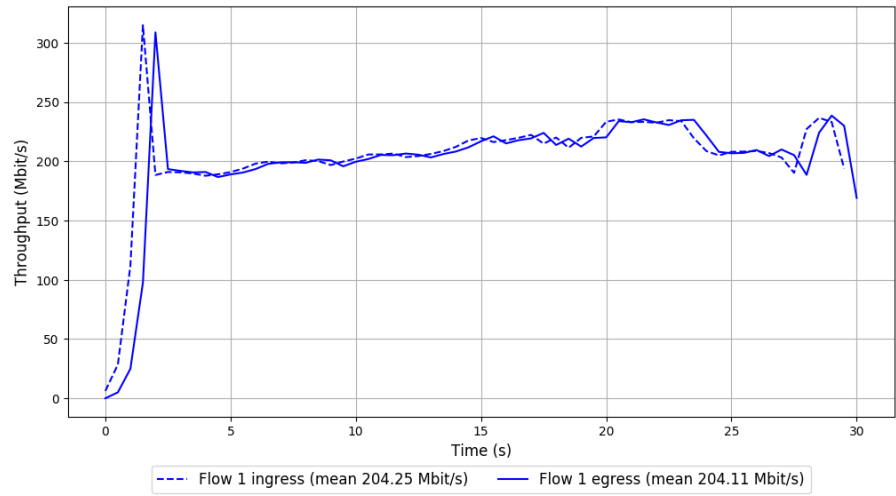


Run 10: Statistics of PCC-Expr

Start at: 2018-06-20 19:41:53
End at: 2018-06-20 19:42:23
Local clock offset: 0.006 ms
Remote clock offset: -0.078 ms

Below is generated by plot.py at 2018-06-20 21:03:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 204.11 Mbit/s
95th percentile per-packet one-way delay: 50.855 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 204.11 Mbit/s
95th percentile per-packet one-way delay: 50.855 ms
Loss rate: 0.41%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

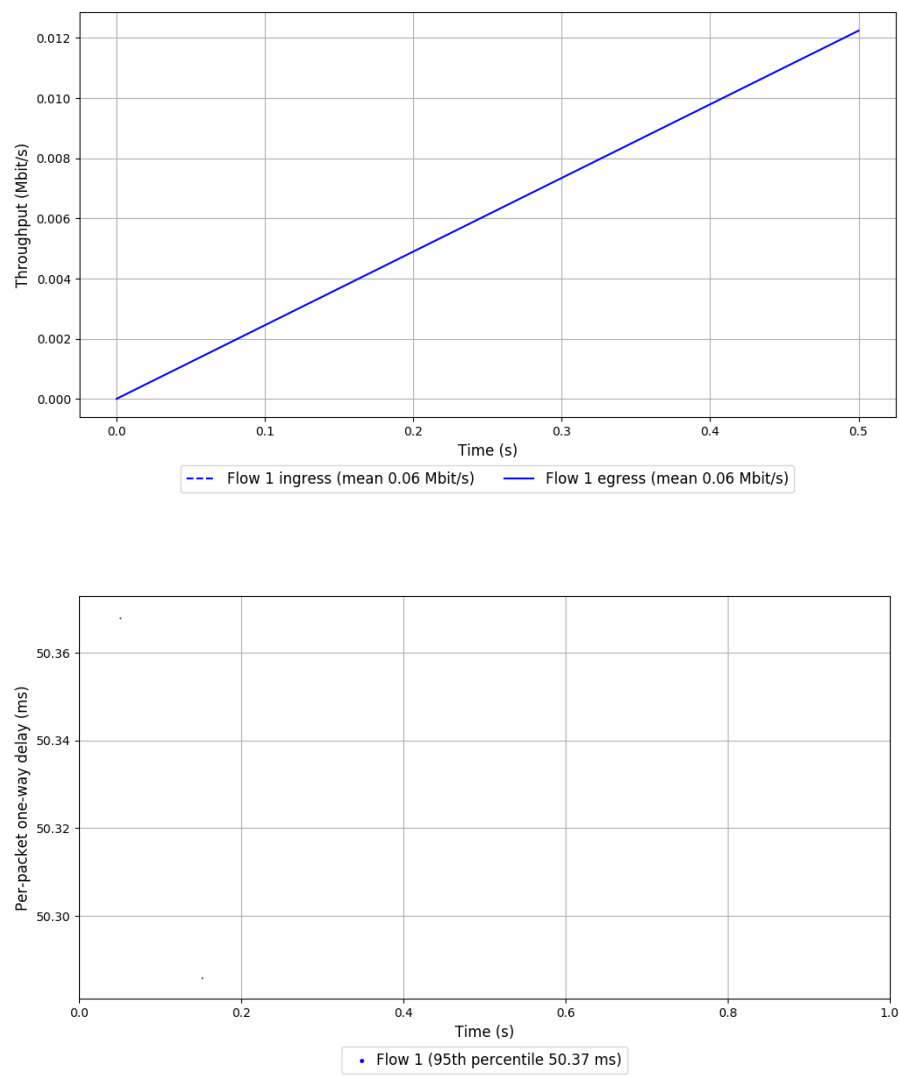
Start at: 2018-06-20 16:58:20

End at: 2018-06-20 16:58:50

Local clock offset: -0.02 ms

Remote clock offset: -0.043 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-06-20 17:18:14

End at: 2018-06-20 17:18:44

Local clock offset: -0.113 ms

Remote clock offset: -0.112 ms

Below is generated by plot.py at 2018-06-20 21:03:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.92 Mbit/s

95th percentile per-packet one-way delay: 50.349 ms

Loss rate: 0.38%

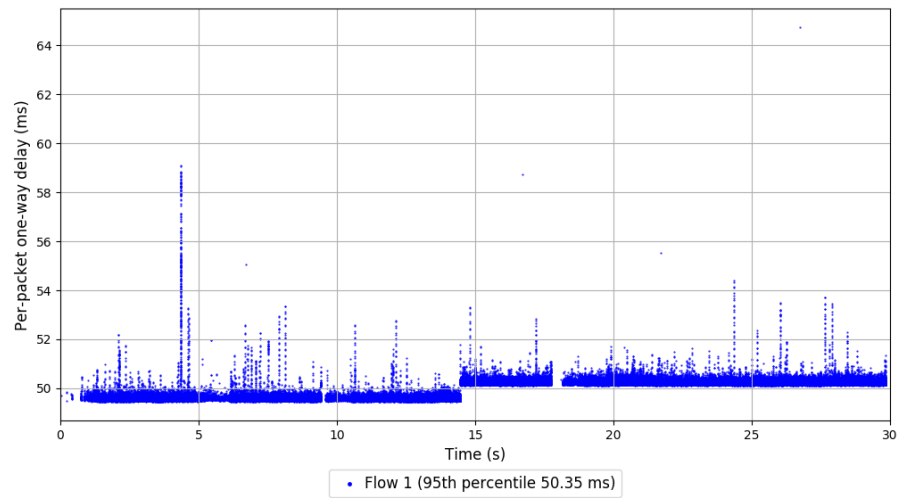
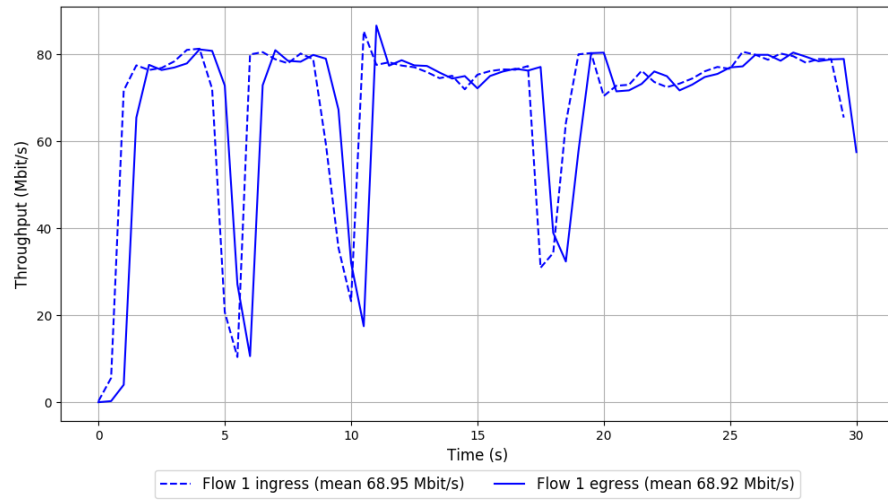
-- Flow 1:

Average throughput: 68.92 Mbit/s

95th percentile per-packet one-way delay: 50.349 ms

Loss rate: 0.38%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-06-20 17:38:23

End at: 2018-06-20 17:38:53

Local clock offset: 0.099 ms

Remote clock offset: -0.019 ms

Below is generated by plot.py at 2018-06-20 21:03:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.28 Mbit/s

95th percentile per-packet one-way delay: 50.433 ms

Loss rate: 0.38%

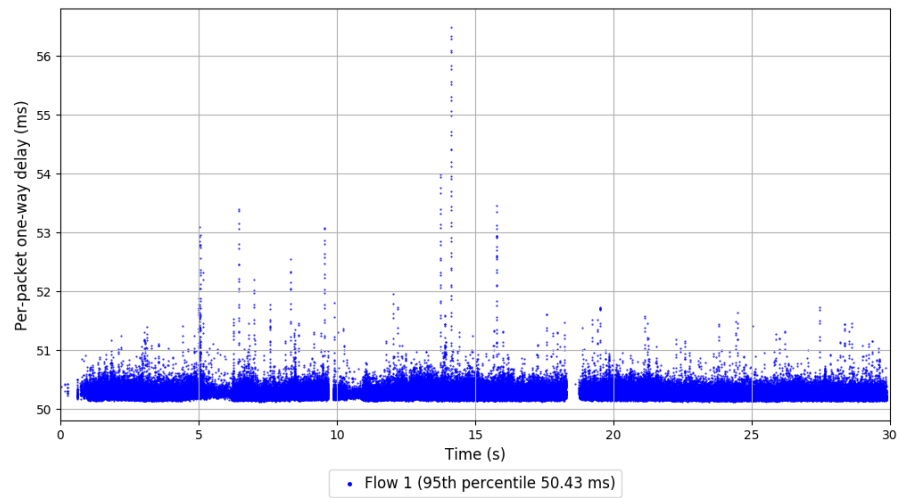
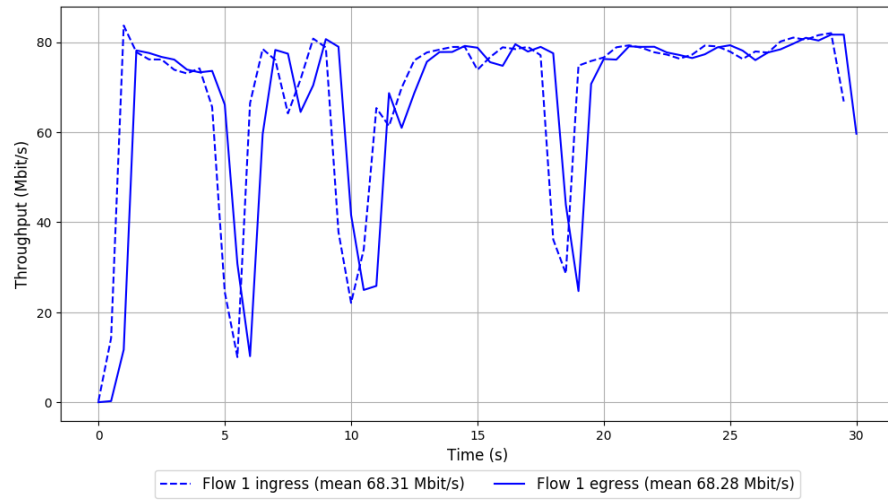
-- Flow 1:

Average throughput: 68.28 Mbit/s

95th percentile per-packet one-way delay: 50.433 ms

Loss rate: 0.38%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-06-20 17:58:24

End at: 2018-06-20 17:58:54

Local clock offset: 0.039 ms

Remote clock offset: 0.033 ms

Below is generated by plot.py at 2018-06-20 21:03:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.84 Mbit/s

95th percentile per-packet one-way delay: 50.770 ms

Loss rate: 0.39%

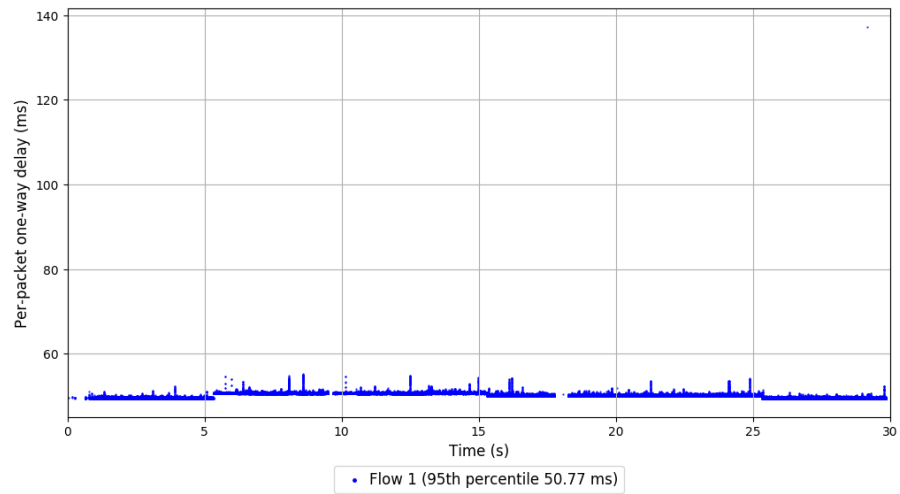
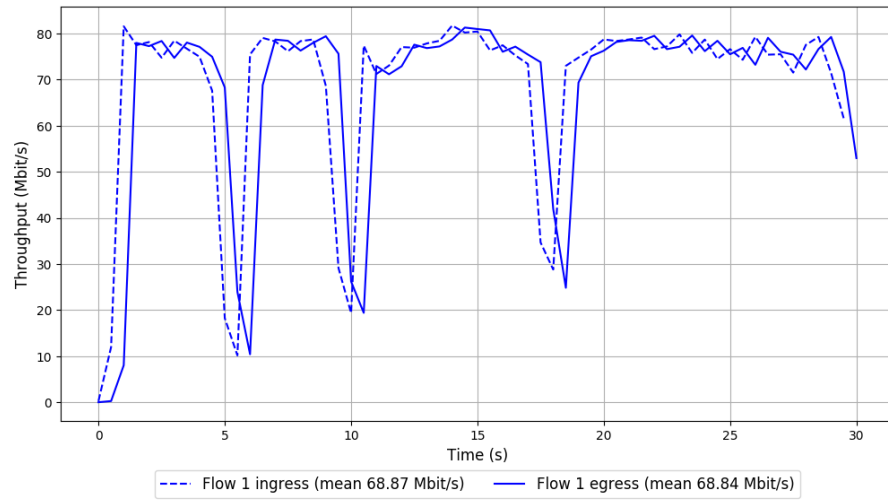
-- Flow 1:

Average throughput: 68.84 Mbit/s

95th percentile per-packet one-way delay: 50.770 ms

Loss rate: 0.39%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-06-20 18:18:35

End at: 2018-06-20 18:19:05

Local clock offset: -0.03 ms

Remote clock offset: -0.054 ms

Below is generated by plot.py at 2018-06-20 21:03:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.58 Mbit/s

95th percentile per-packet one-way delay: 49.766 ms

Loss rate: 0.38%

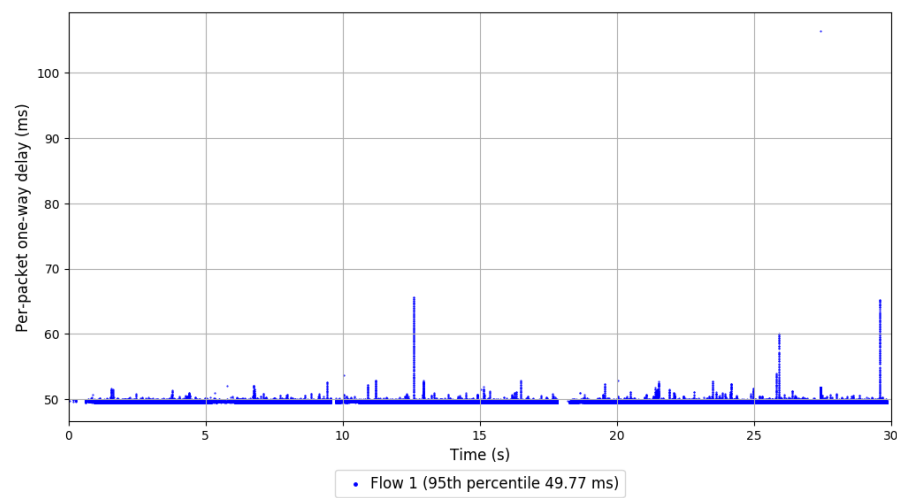
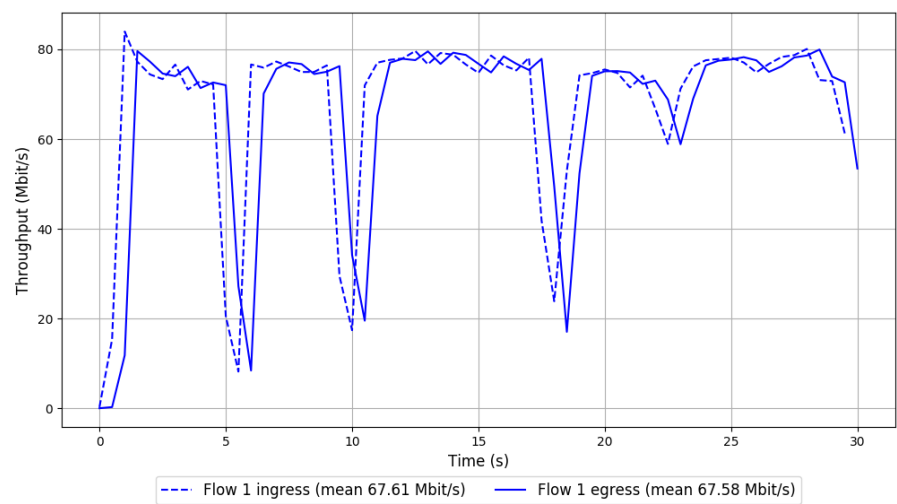
-- Flow 1:

Average throughput: 67.58 Mbit/s

95th percentile per-packet one-way delay: 49.766 ms

Loss rate: 0.38%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-06-20 18:38:30

End at: 2018-06-20 18:39:00

Local clock offset: 0.352 ms

Remote clock offset: 0.23 ms

Below is generated by plot.py at 2018-06-20 21:03:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.96 Mbit/s

95th percentile per-packet one-way delay: 51.454 ms

Loss rate: 0.37%

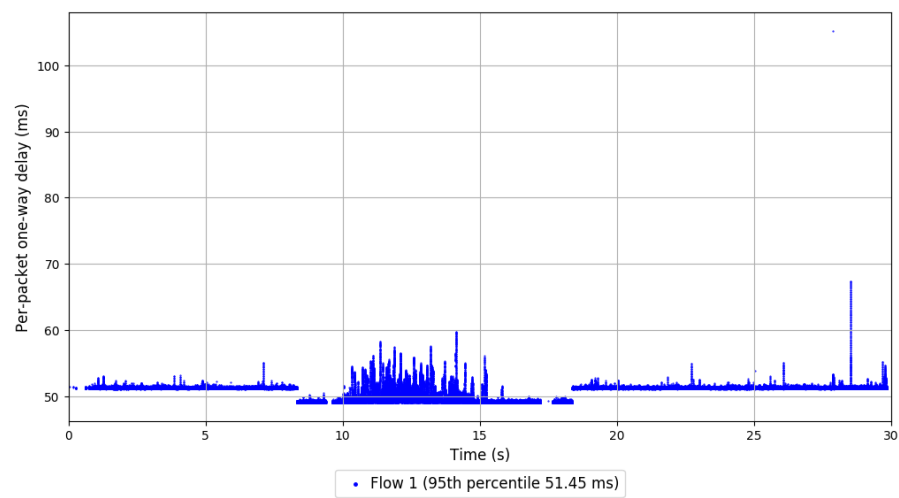
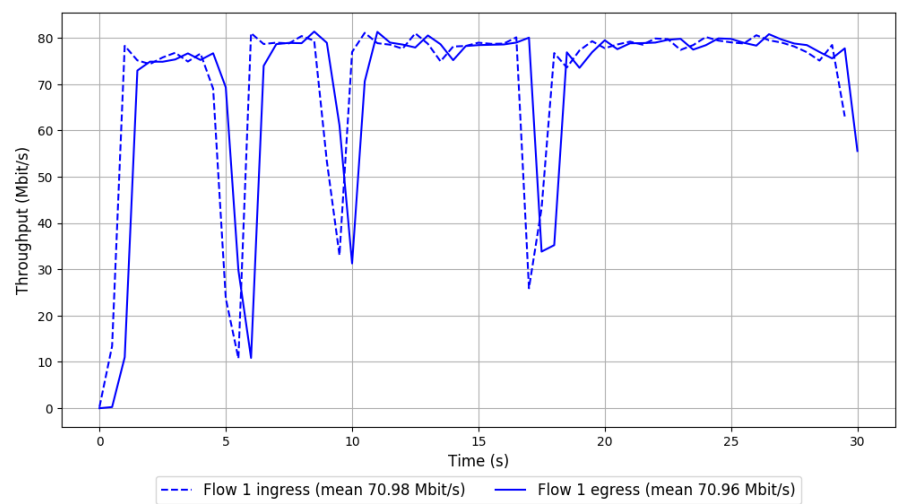
-- Flow 1:

Average throughput: 70.96 Mbit/s

95th percentile per-packet one-way delay: 51.454 ms

Loss rate: 0.37%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-06-20 18:58:29

End at: 2018-06-20 18:58:59

Local clock offset: -0.004 ms

Remote clock offset: 0.357 ms

Below is generated by plot.py at 2018-06-20 21:03:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.05 Mbit/s

95th percentile per-packet one-way delay: 50.881 ms

Loss rate: 0.59%

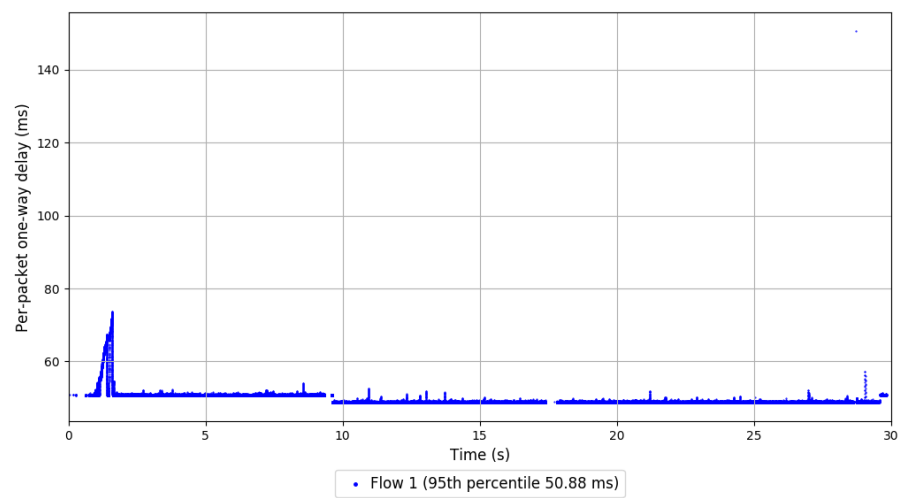
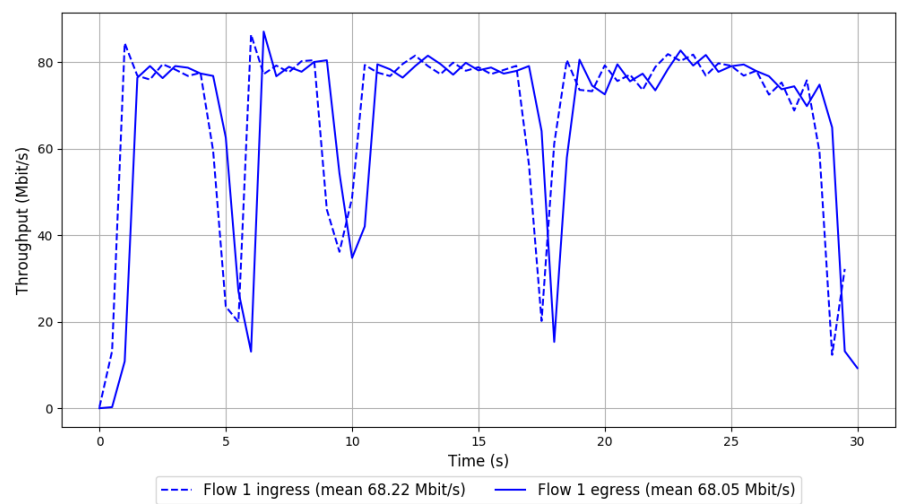
-- Flow 1:

Average throughput: 68.05 Mbit/s

95th percentile per-packet one-way delay: 50.881 ms

Loss rate: 0.59%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-06-20 19:18:23

End at: 2018-06-20 19:18:53

Local clock offset: -0.33 ms

Remote clock offset: 0.02 ms

Below is generated by plot.py at 2018-06-20 21:03:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.13 Mbit/s

95th percentile per-packet one-way delay: 50.418 ms

Loss rate: 0.35%

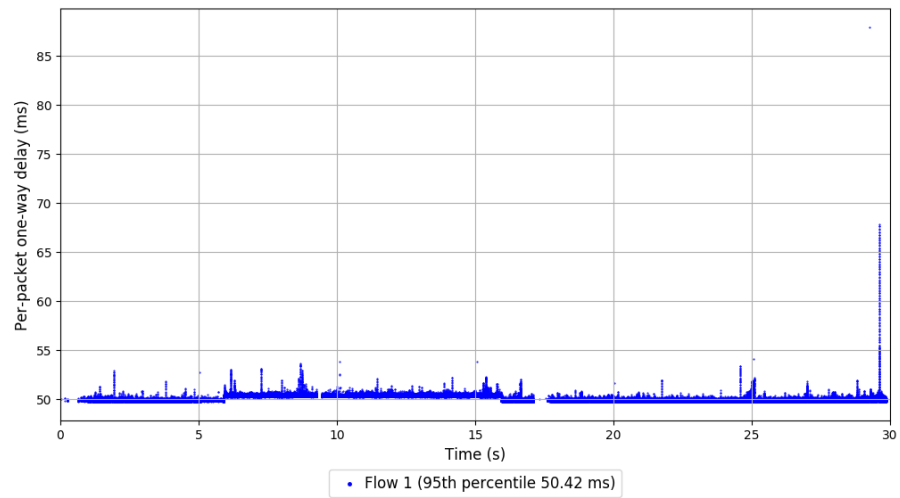
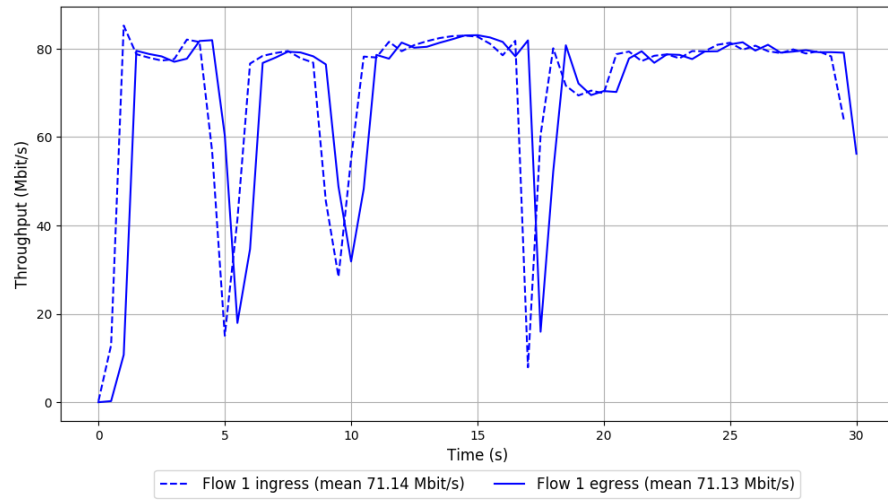
-- Flow 1:

Average throughput: 71.13 Mbit/s

95th percentile per-packet one-way delay: 50.418 ms

Loss rate: 0.35%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

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

End at: 2018-06-20 19:38:49

Local clock offset: -0.325 ms

Remote clock offset: -0.073 ms

Below is generated by plot.py at 2018-06-20 21:03:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.71 Mbit/s

95th percentile per-packet one-way delay: 50.322 ms

Loss rate: 0.39%

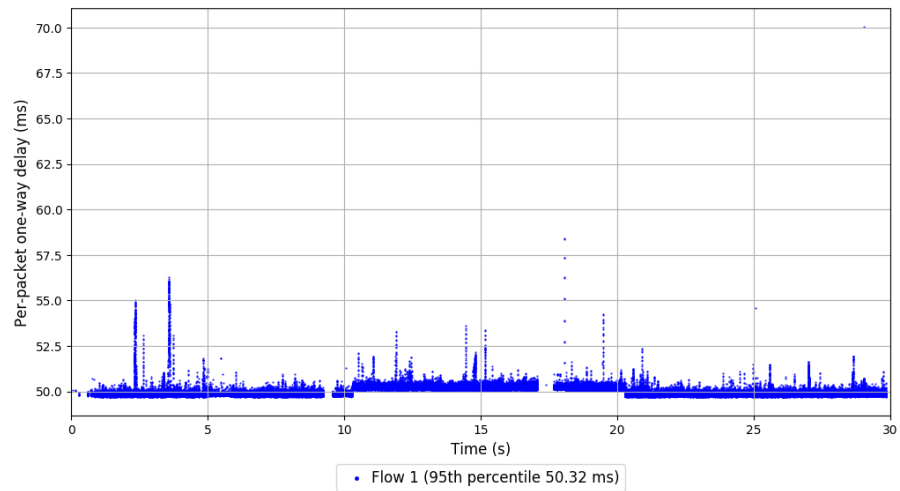
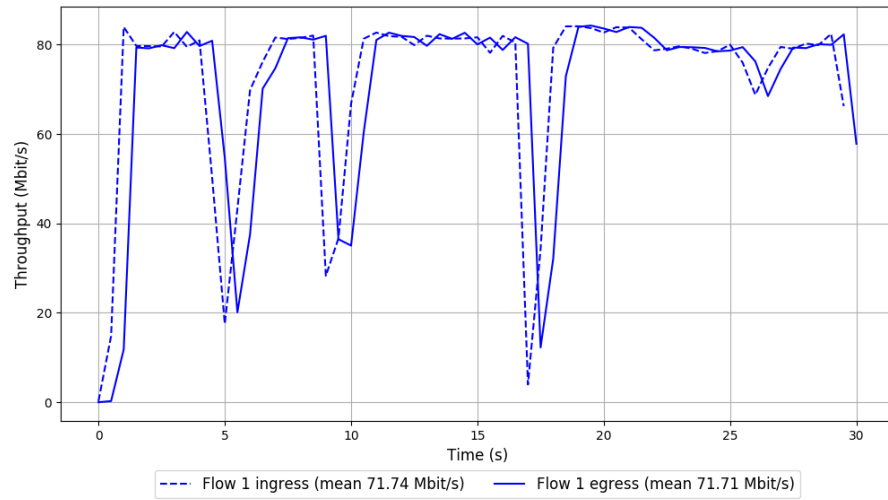
-- Flow 1:

Average throughput: 71.71 Mbit/s

95th percentile per-packet one-way delay: 50.322 ms

Loss rate: 0.39%

Run 9: Report of QUIC Cubic — Data Link

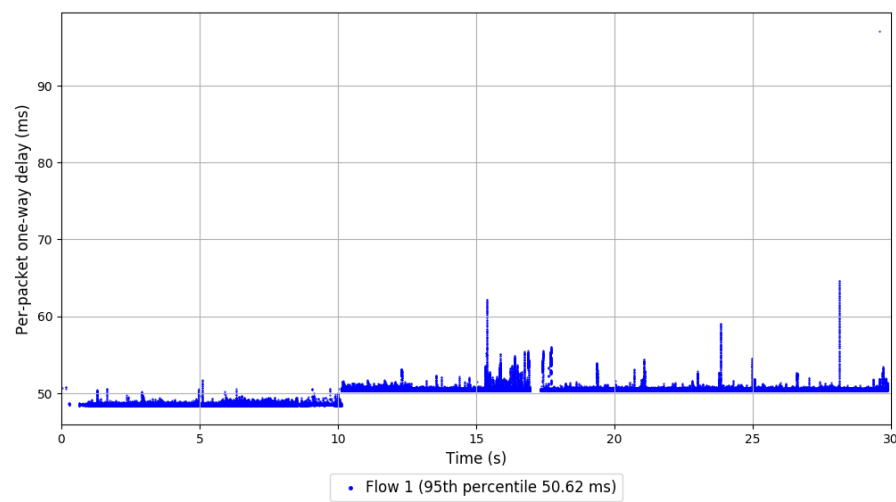
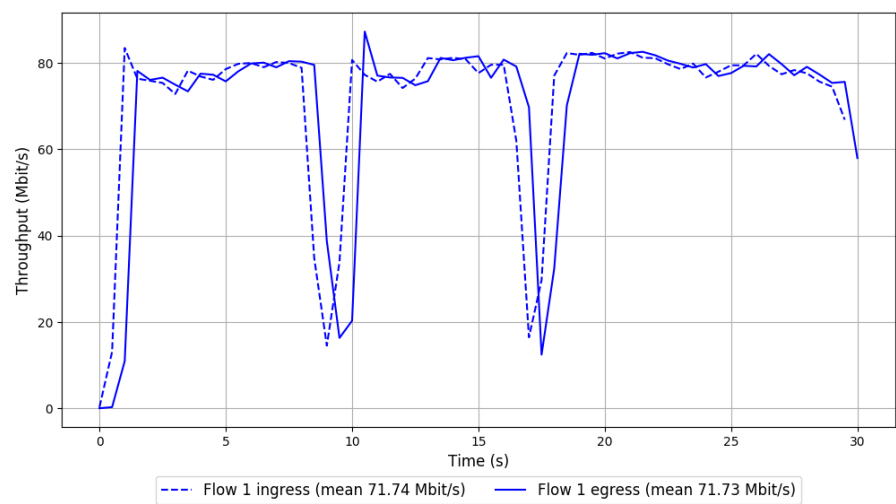


Run 10: Statistics of QUIC Cubic

Start at: 2018-06-20 19:58:19
End at: 2018-06-20 19:58:49
Local clock offset: -0.4 ms
Remote clock offset: -0.133 ms

Below is generated by plot.py at 2018-06-20 21:03:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 71.73 Mbit/s
95th percentile per-packet one-way delay: 50.616 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 71.73 Mbit/s
95th percentile per-packet one-way delay: 50.616 ms
Loss rate: 0.37%

Run 10: Report of QUIC Cubic — Data Link

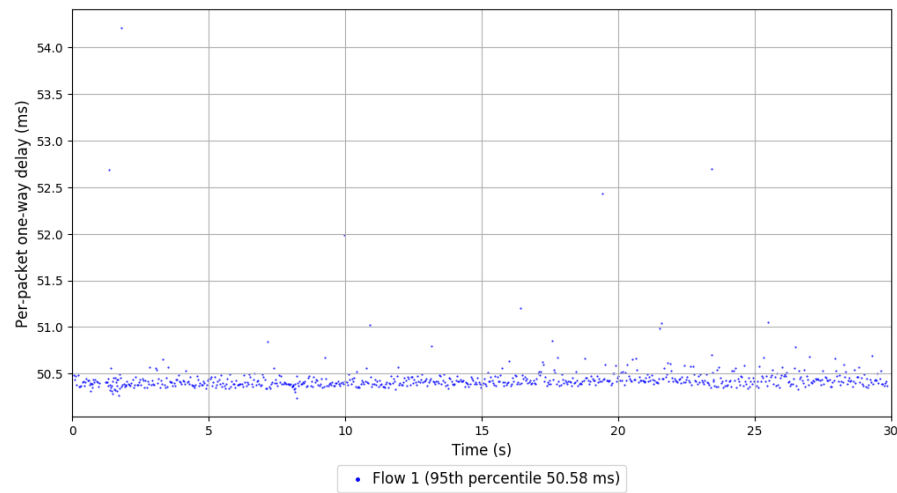
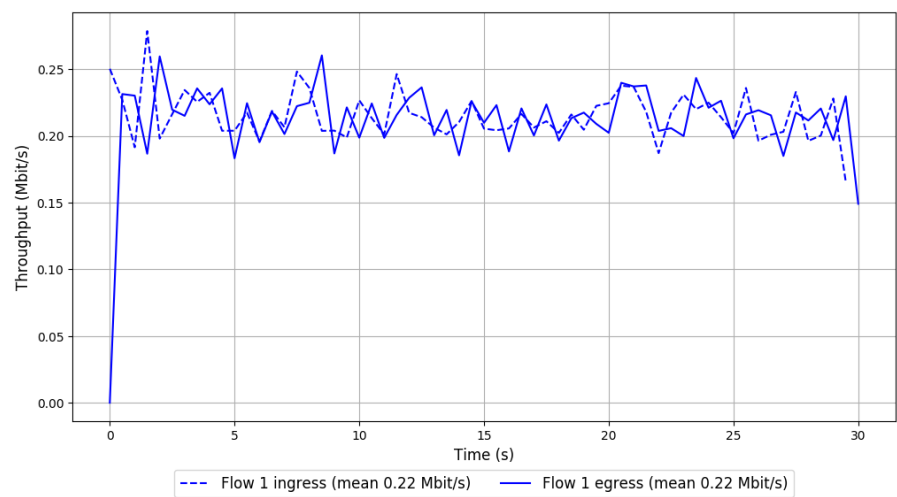


```
Run 1: Statistics of SCReAM

Start at: 2018-06-20 16:43:16
End at: 2018-06-20 16:43:46
Local clock offset: 0.161 ms
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2018-06-20 21:03:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.579 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.579 ms
Loss rate: 0.25%
```

Run 1: Report of SReAM — Data Link

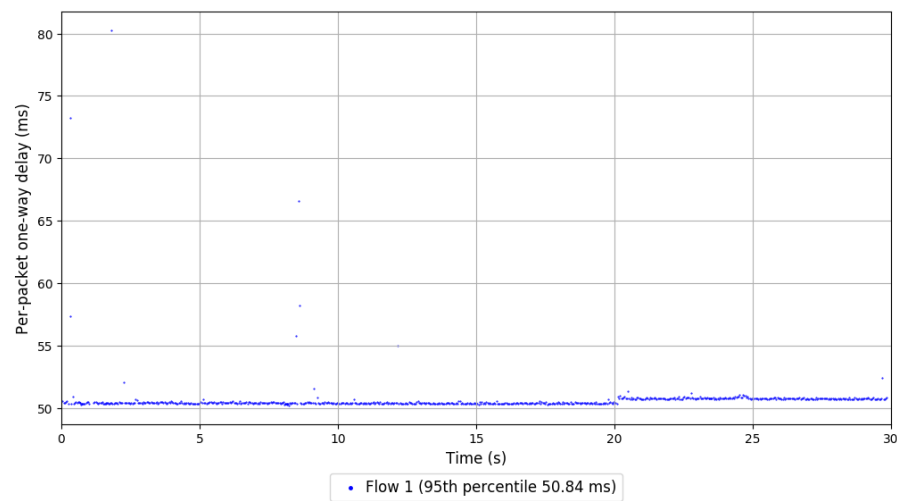
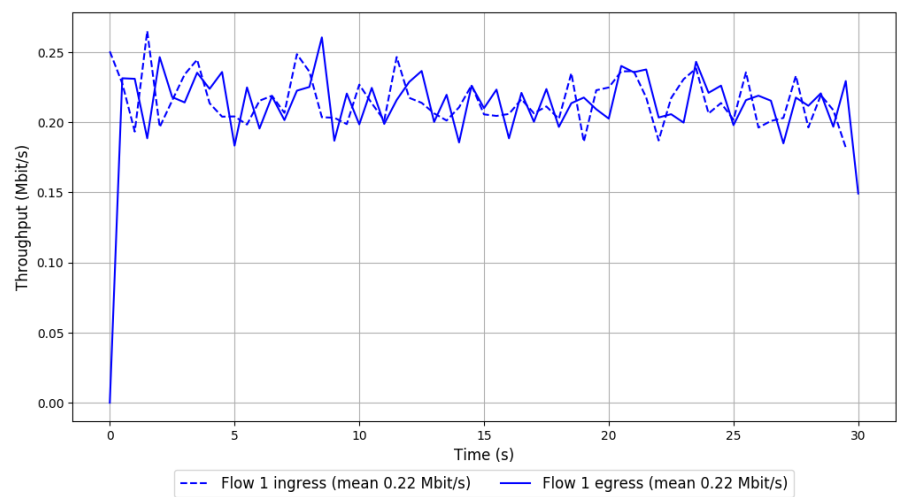


Run 2: Statistics of SCReAM

Start at: 2018-06-20 17:03:19
End at: 2018-06-20 17:03:49
Local clock offset: -0.051 ms
Remote clock offset: -0.103 ms

Below is generated by plot.py at 2018-06-20 21:03:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.837 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.837 ms
Loss rate: 0.38%

Run 2: Report of SReAM — Data Link

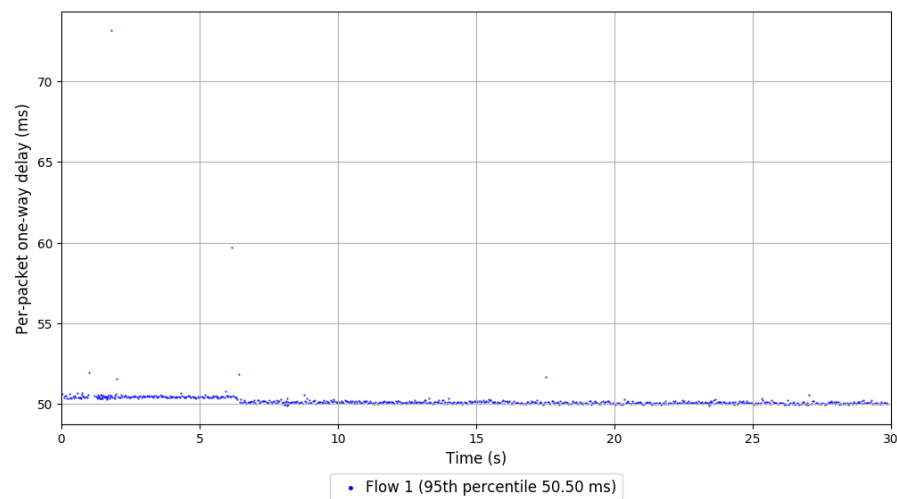
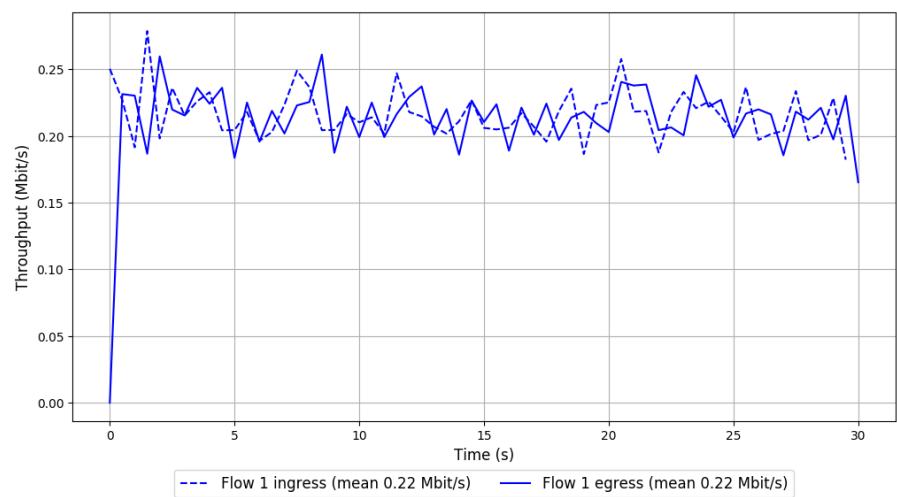


Run 3: Statistics of SCReAM

Start at: 2018-06-20 17:23:13
End at: 2018-06-20 17:23:43
Local clock offset: -0.379 ms
Remote clock offset: -0.073 ms

Below is generated by plot.py at 2018-06-20 21:03:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.503 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.503 ms
Loss rate: 0.26%

Run 3: Report of SReAM — Data Link

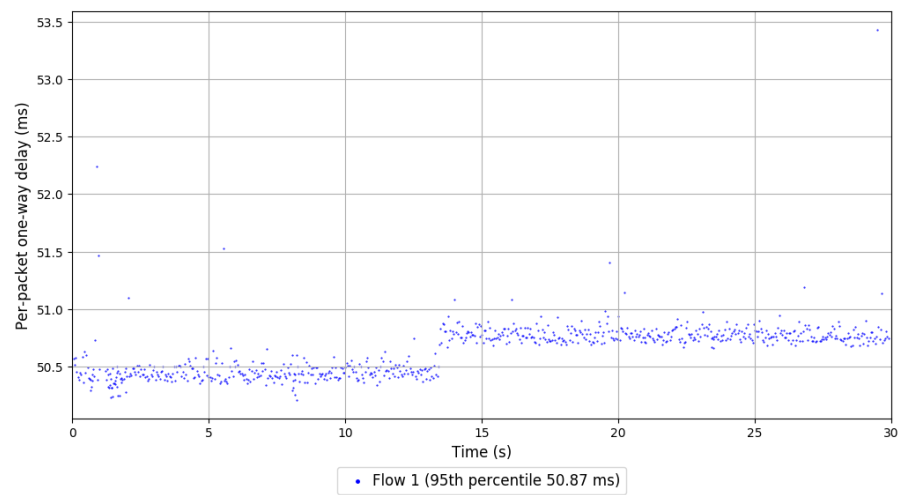
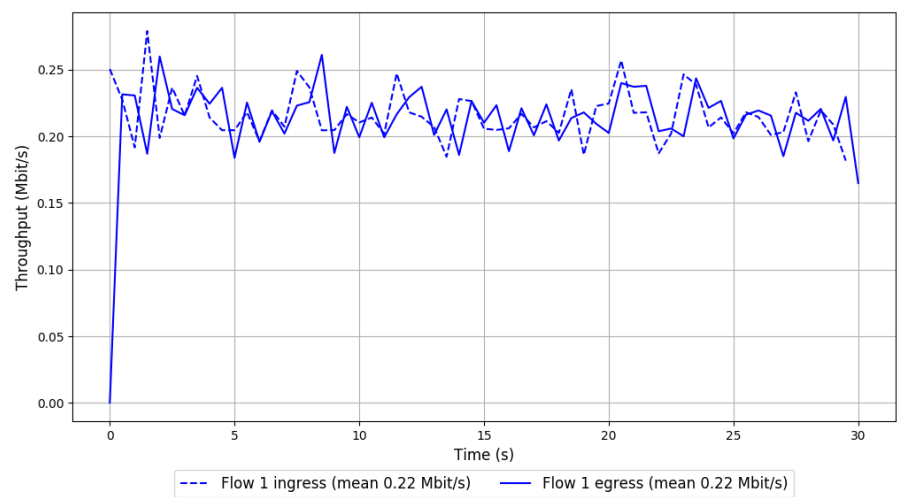


Run 4: Statistics of SCReAM

Start at: 2018-06-20 17:43:25
End at: 2018-06-20 17:43:55
Local clock offset: 0.096 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-06-20 21:03:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.871 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.871 ms
Loss rate: 0.26%

Run 4: Report of SReAM — Data Link

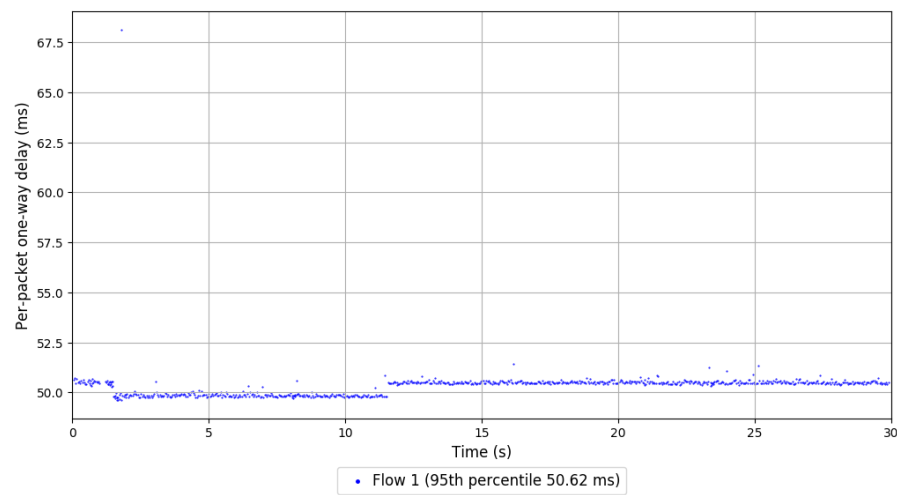
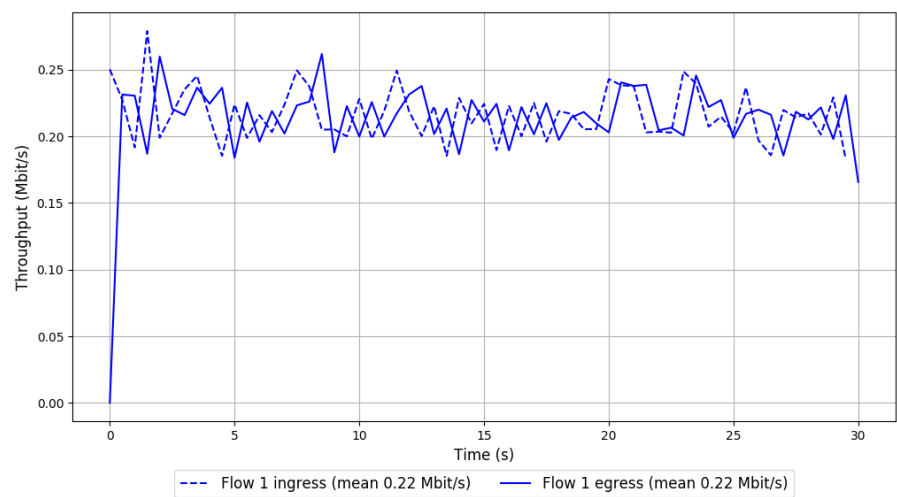


Run 5: Statistics of SCReAM

Start at: 2018-06-20 18:03:27
End at: 2018-06-20 18:03:57
Local clock offset: 0.055 ms
Remote clock offset: -0.062 ms

Below is generated by plot.py at 2018-06-20 21:03:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.616 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.616 ms
Loss rate: 0.26%

Run 5: Report of SReAM — Data Link

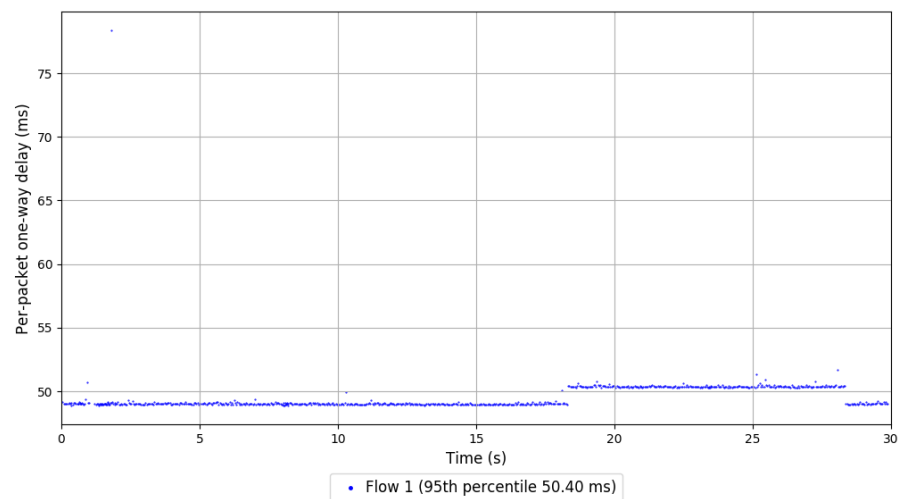
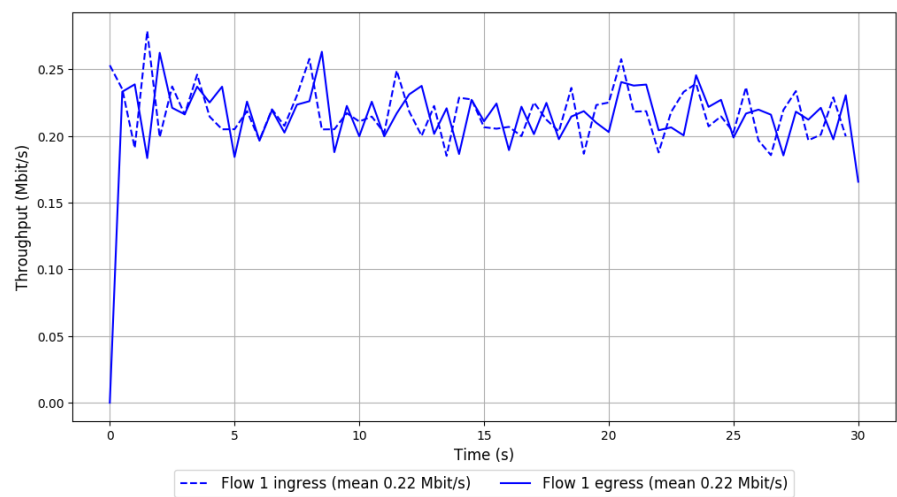


Run 6: Statistics of SCReAM

Start at: 2018-06-20 18:23:31
End at: 2018-06-20 18:24:01
Local clock offset: -0.003 ms
Remote clock offset: -0.024 ms

Below is generated by plot.py at 2018-06-20 21:03:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.404 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.404 ms
Loss rate: 0.39%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2018-06-20 18:43:22

End at: 2018-06-20 18:43:52

Local clock offset: -0.013 ms

Remote clock offset: 0.261 ms

Below is generated by plot.py at 2018-06-20 21:03:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.837 ms

Loss rate: 0.38%

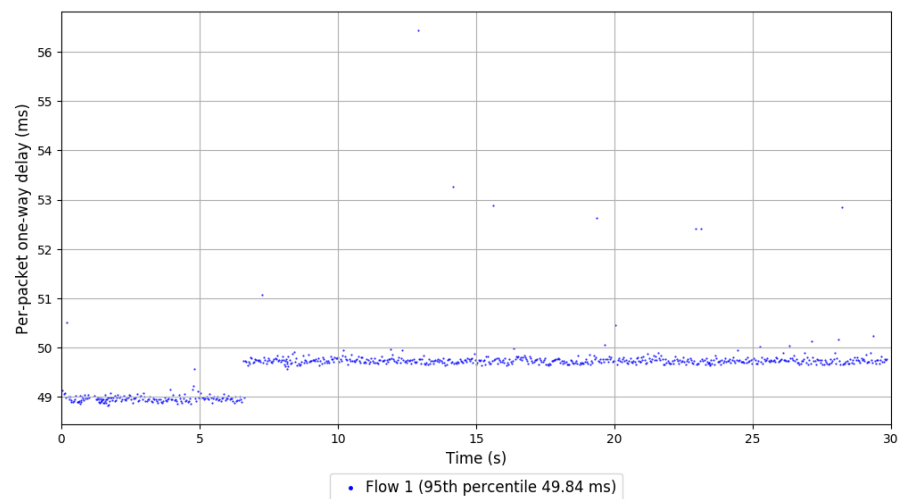
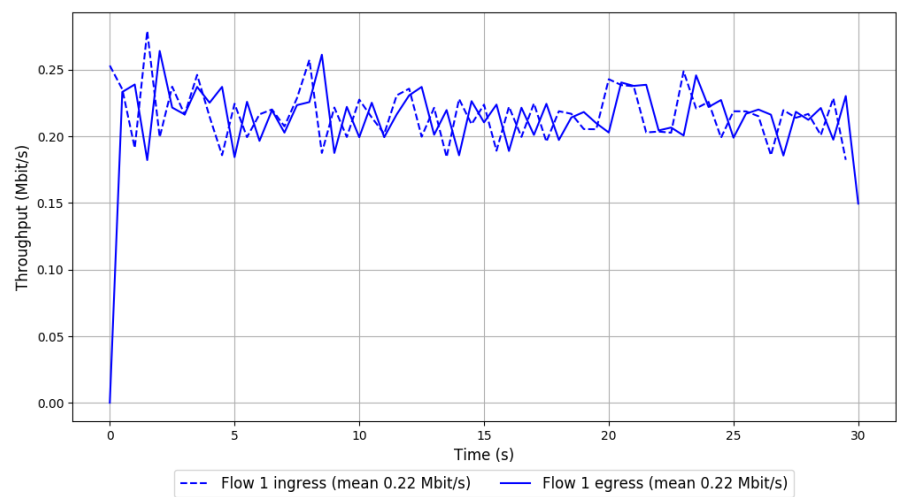
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.837 ms

Loss rate: 0.38%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-06-20 19:03:22

End at: 2018-06-20 19:03:52

Local clock offset: -0.016 ms

Remote clock offset: 0.372 ms

Below is generated by plot.py at 2018-06-20 21:03:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.159 ms

Loss rate: 0.26%

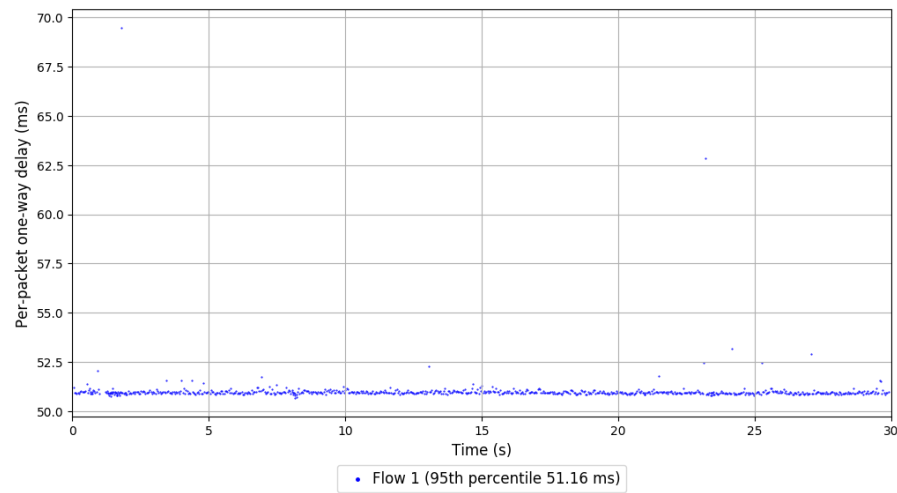
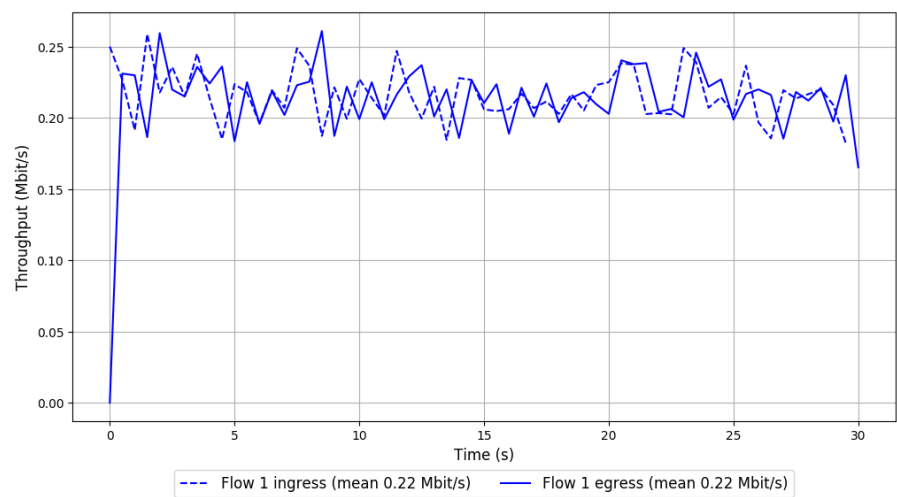
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.159 ms

Loss rate: 0.26%

Run 8: Report of SReAM — Data Link

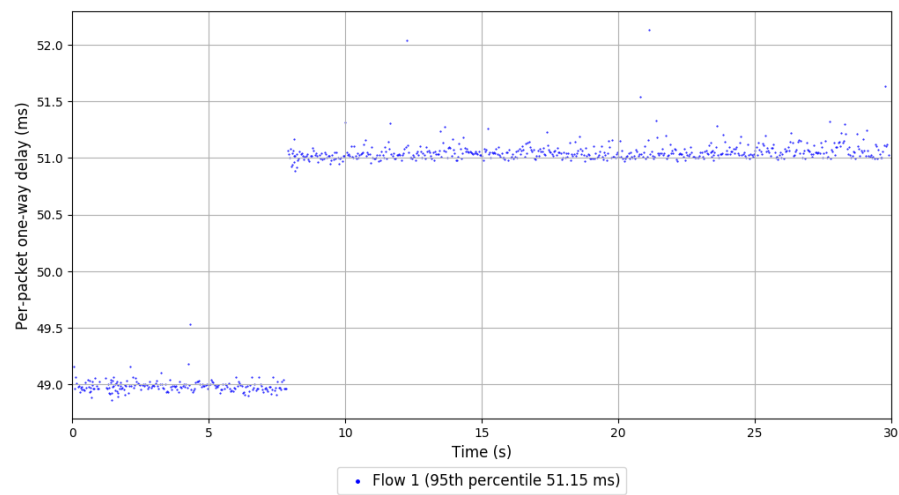
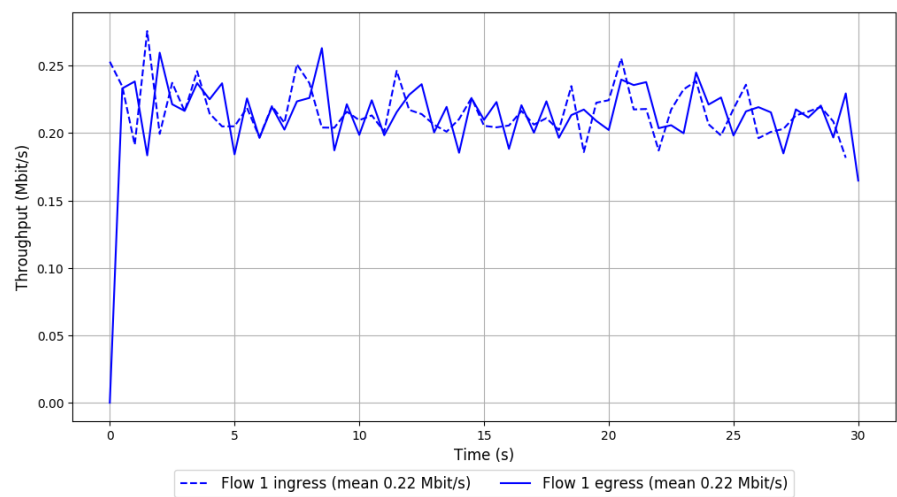


Run 9: Statistics of SCReAM

Start at: 2018-06-20 19:23:21
End at: 2018-06-20 19:23:51
Local clock offset: 0.044 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-06-20 21:03:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.147 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.147 ms
Loss rate: 0.26%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-06-20 19:43:16

End at: 2018-06-20 19:43:46

Local clock offset: 0.409 ms

Remote clock offset: -0.088 ms

Below is generated by plot.py at 2018-06-20 21:03:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.411 ms

Loss rate: 0.39%

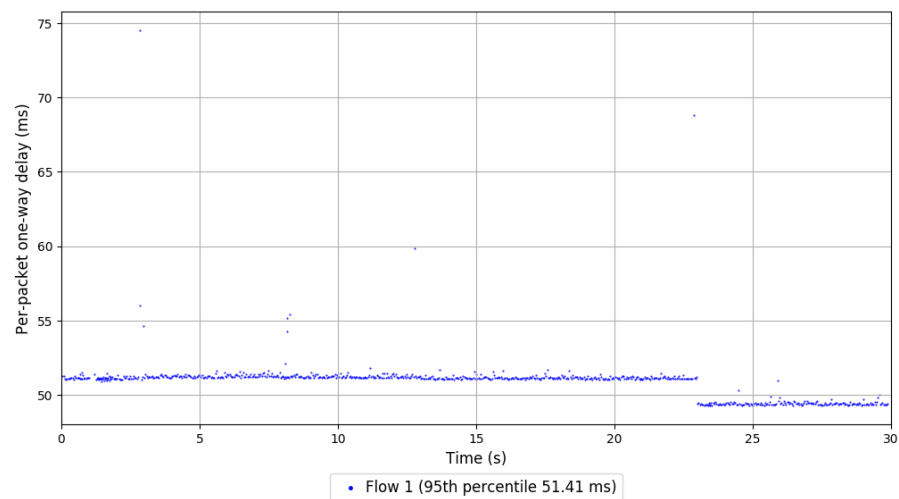
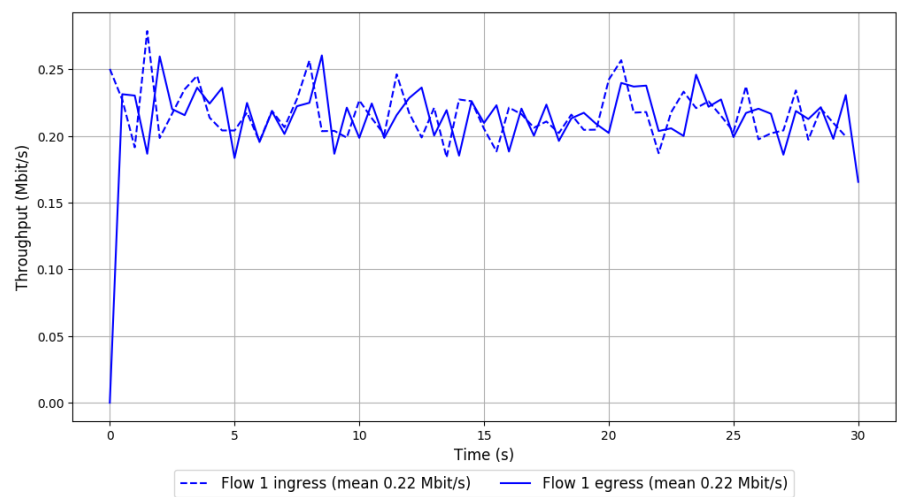
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.411 ms

Loss rate: 0.39%

Run 10: Report of SReAM — Data Link

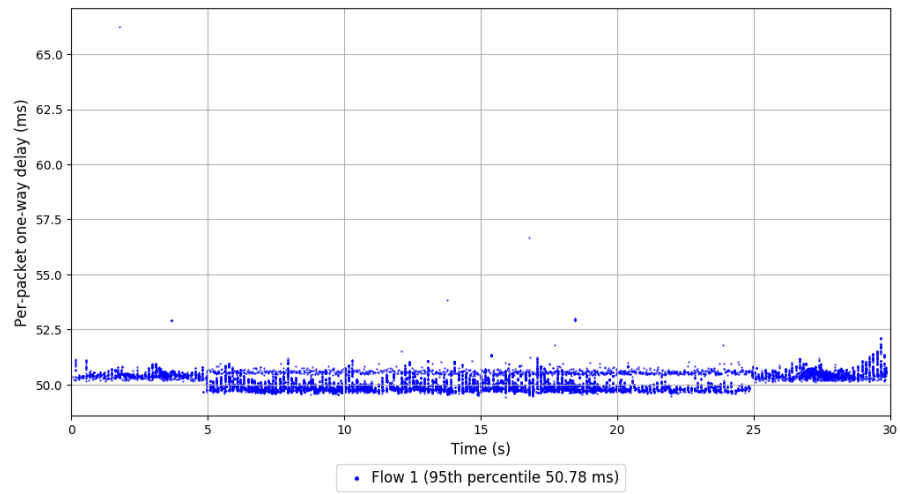
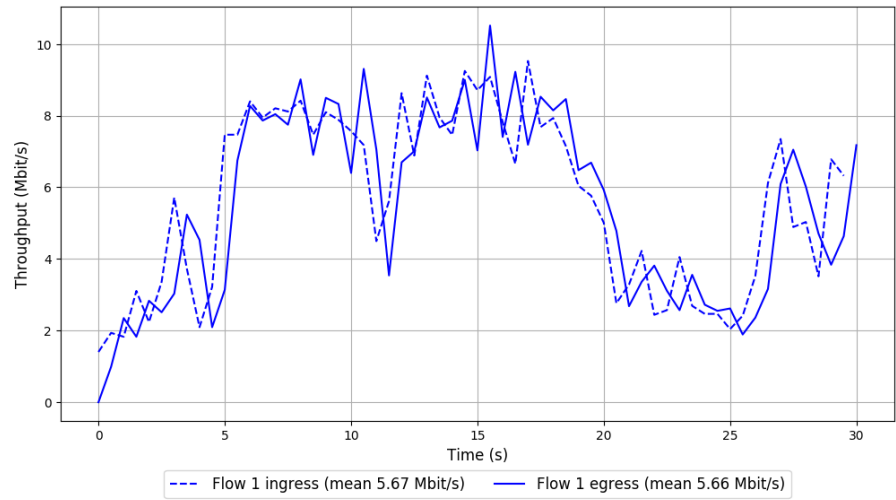


Run 1: Statistics of Sprout

Start at: 2018-06-20 16:57:14
End at: 2018-06-20 16:57:44
Local clock offset: -0.076 ms
Remote clock offset: -0.058 ms

Below is generated by plot.py at 2018-06-20 21:03:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.66 Mbit/s
95th percentile per-packet one-way delay: 50.778 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 5.66 Mbit/s
95th percentile per-packet one-way delay: 50.778 ms
Loss rate: 0.38%

Run 1: Report of Sprout — Data Link

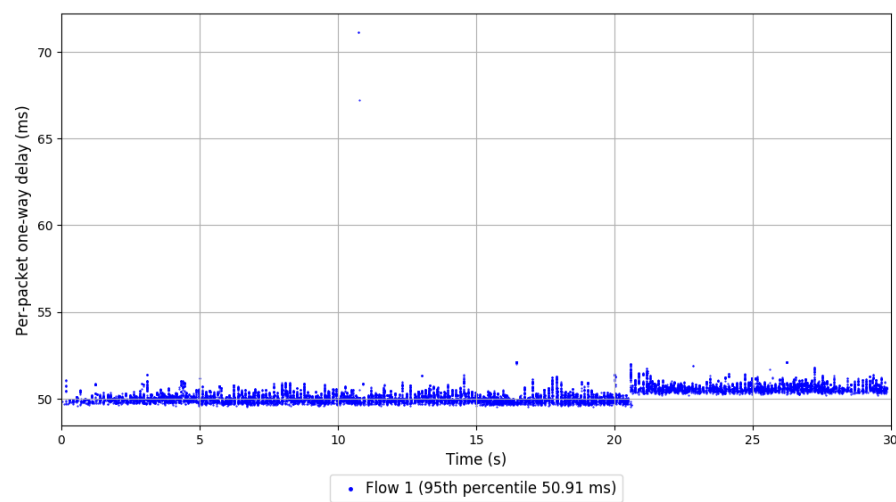
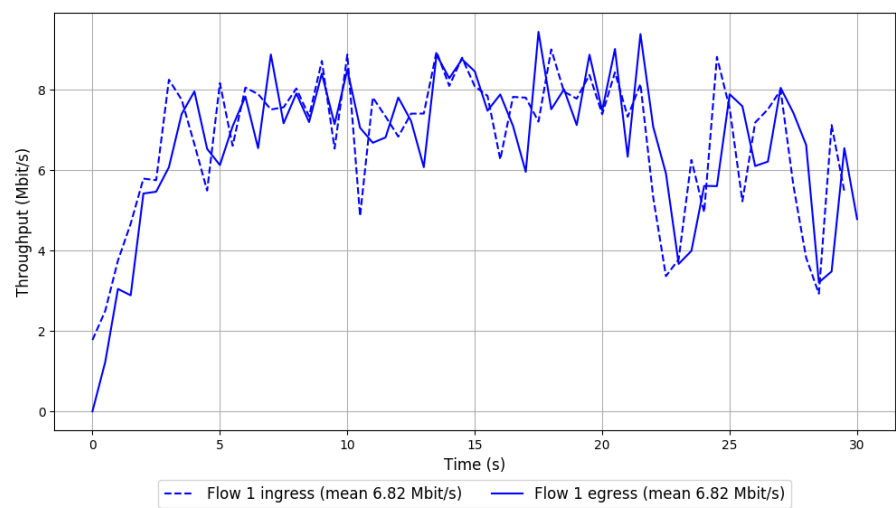


Run 2: Statistics of Sprout

Start at: 2018-06-20 17:17:08
End at: 2018-06-20 17:17:38
Local clock offset: -0.11 ms
Remote clock offset: -0.119 ms

Below is generated by plot.py at 2018-06-20 21:03:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.82 Mbit/s
95th percentile per-packet one-way delay: 50.911 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 6.82 Mbit/s
95th percentile per-packet one-way delay: 50.911 ms
Loss rate: 0.33%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-06-20 17:37:17

End at: 2018-06-20 17:37:47

Local clock offset: 0.108 ms

Remote clock offset: 0.023 ms

Below is generated by plot.py at 2018-06-20 21:03:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.86 Mbit/s

95th percentile per-packet one-way delay: 51.520 ms

Loss rate: 0.06%

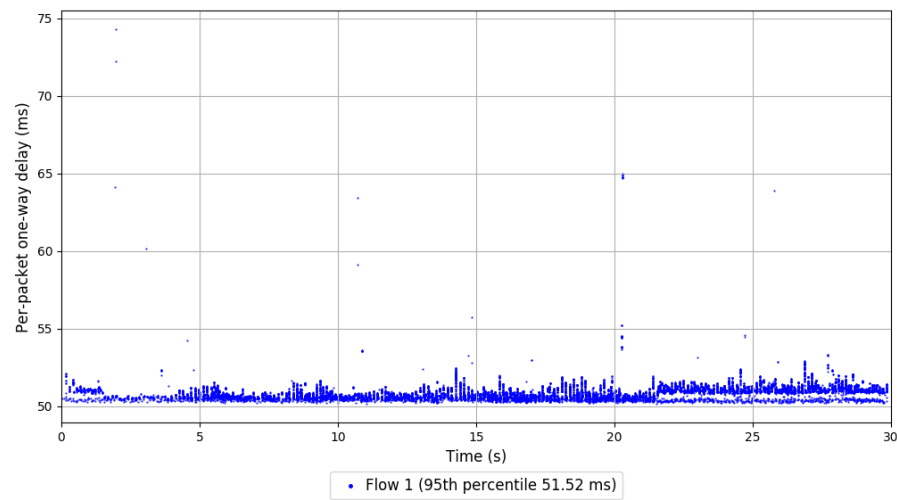
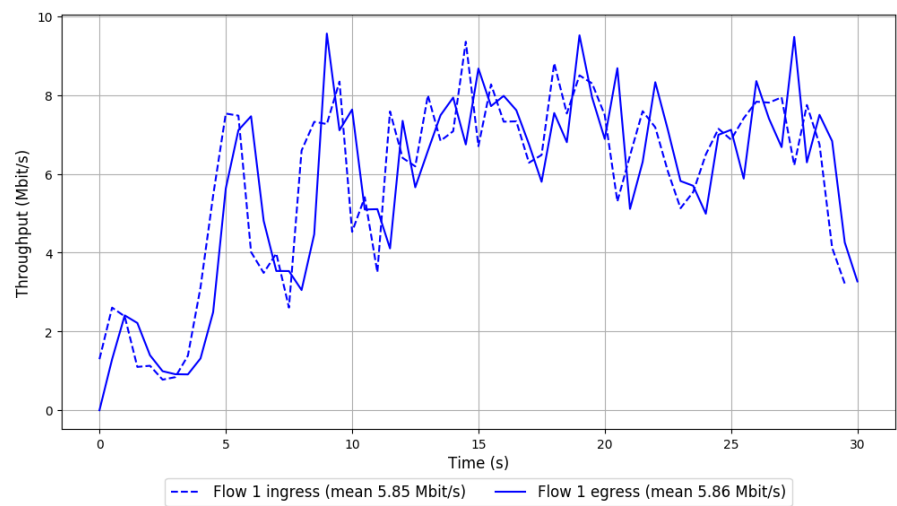
-- Flow 1:

Average throughput: 5.86 Mbit/s

95th percentile per-packet one-way delay: 51.520 ms

Loss rate: 0.06%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-06-20 17:57:17

End at: 2018-06-20 17:57:47

Local clock offset: -0.339 ms

Remote clock offset: 0.0 ms

Below is generated by plot.py at 2018-06-20 21:03:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.74 Mbit/s

95th percentile per-packet one-way delay: 51.295 ms

Loss rate: 0.51%

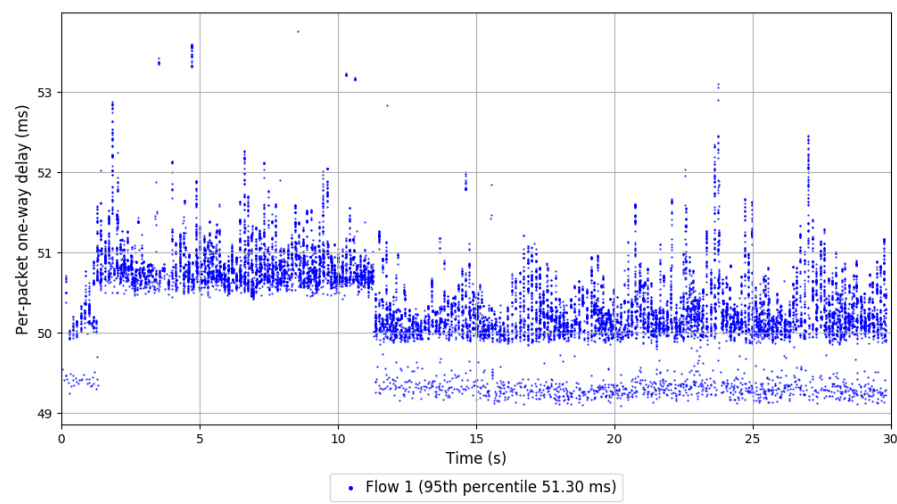
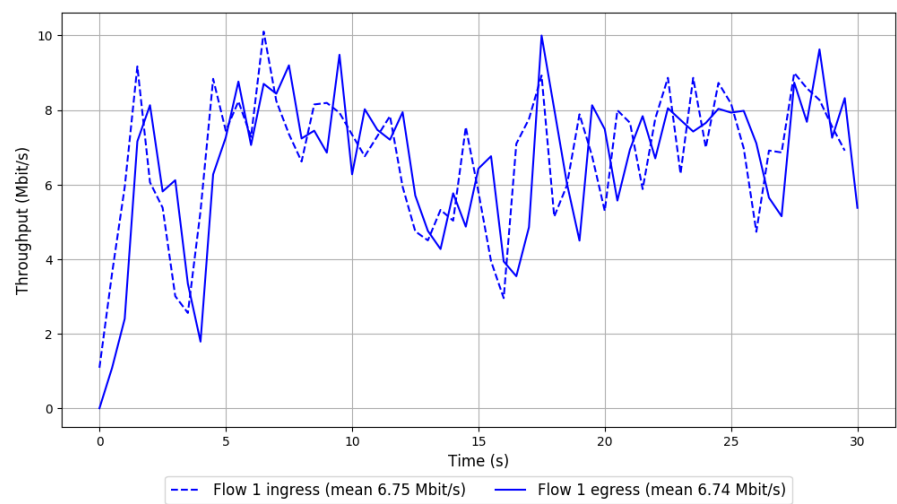
-- Flow 1:

Average throughput: 6.74 Mbit/s

95th percentile per-packet one-way delay: 51.295 ms

Loss rate: 0.51%

Run 4: Report of Sprout — Data Link

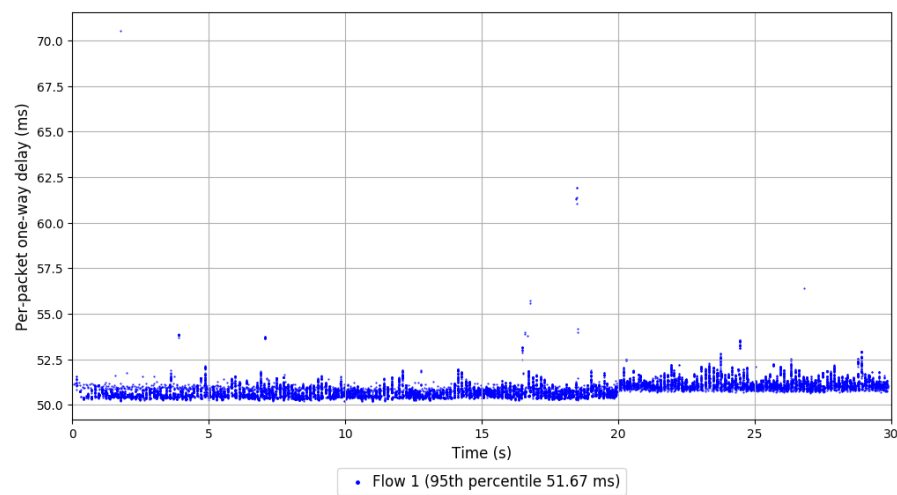
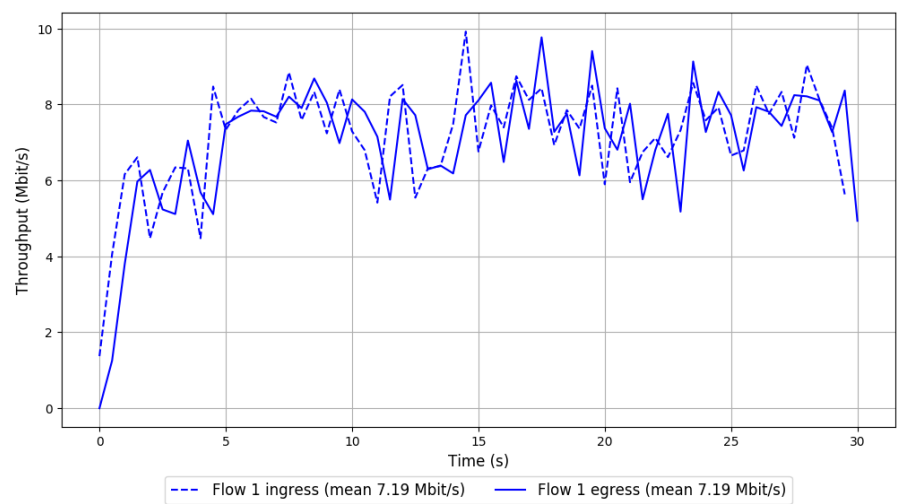


Run 5: Statistics of Sprout

Start at: 2018-06-20 18:17:29
End at: 2018-06-20 18:17:59
Local clock offset: -0.031 ms
Remote clock offset: -0.037 ms

Below is generated by plot.py at 2018-06-20 21:03:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.19 Mbit/s
95th percentile per-packet one-way delay: 51.672 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 7.19 Mbit/s
95th percentile per-packet one-way delay: 51.672 ms
Loss rate: 0.35%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-06-20 18:37:24

End at: 2018-06-20 18:37:54

Local clock offset: 0.011 ms

Remote clock offset: 0.211 ms

Below is generated by plot.py at 2018-06-20 21:03:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.01 Mbit/s

95th percentile per-packet one-way delay: 51.029 ms

Loss rate: 0.57%

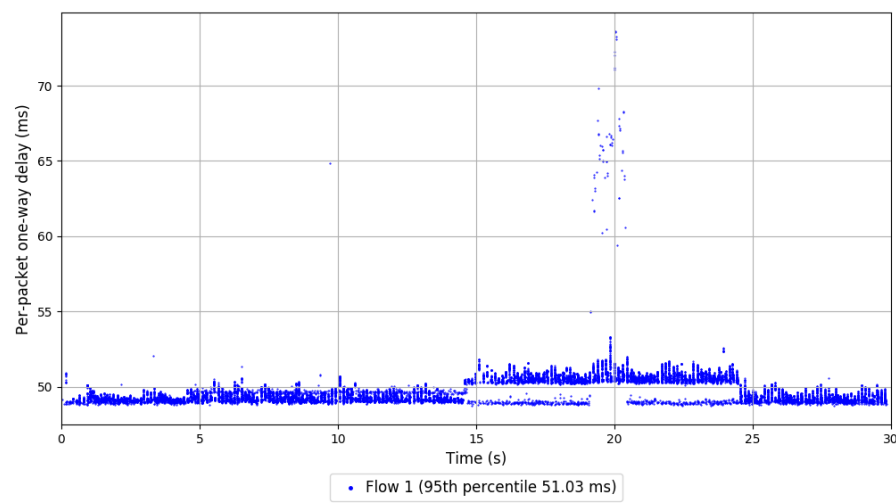
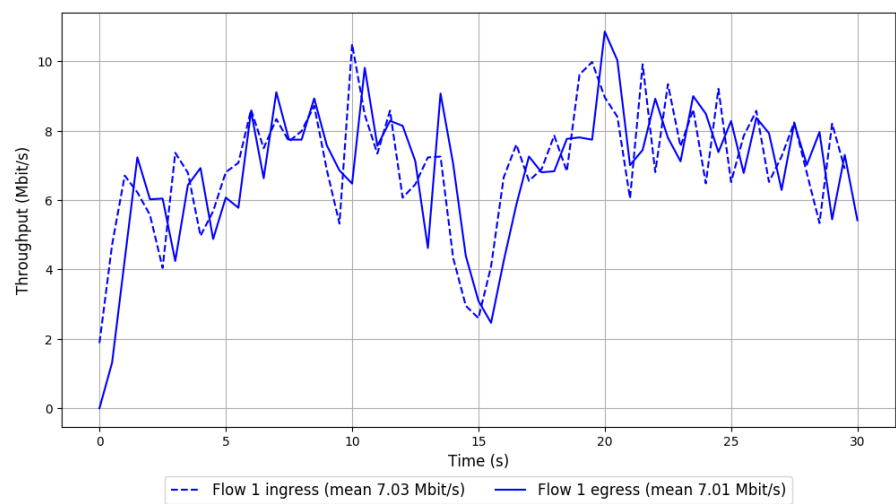
-- Flow 1:

Average throughput: 7.01 Mbit/s

95th percentile per-packet one-way delay: 51.029 ms

Loss rate: 0.57%

Run 6: Report of Sprout — Data Link

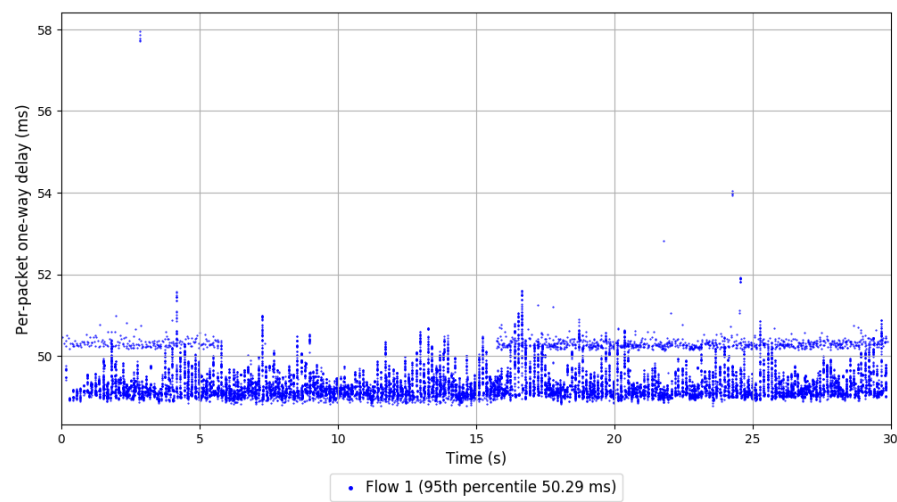
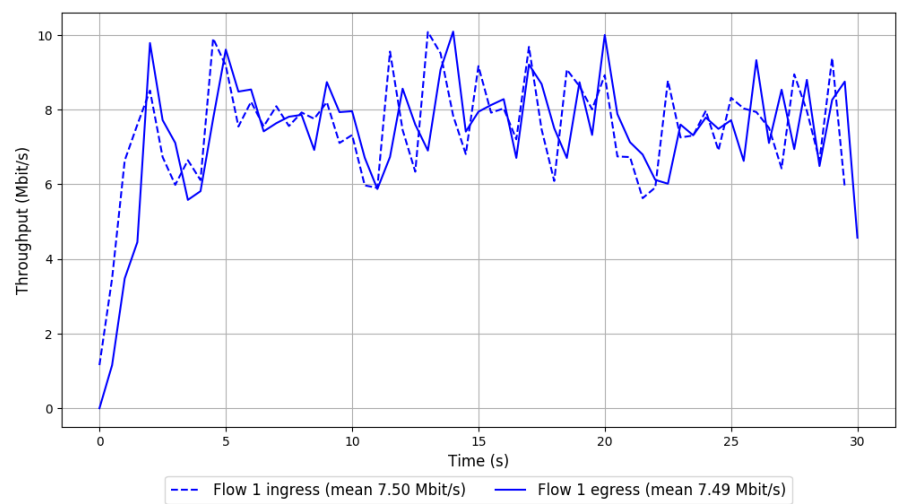


Run 7: Statistics of Sprout

Start at: 2018-06-20 18:57:23
End at: 2018-06-20 18:57:53
Local clock offset: 0.012 ms
Remote clock offset: 0.35 ms

Below is generated by plot.py at 2018-06-20 21:03:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.49 Mbit/s
95th percentile per-packet one-way delay: 50.292 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 7.49 Mbit/s
95th percentile per-packet one-way delay: 50.292 ms
Loss rate: 0.44%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-06-20 19:17:17

End at: 2018-06-20 19:17:47

Local clock offset: 0.072 ms

Remote clock offset: 0.019 ms

Below is generated by plot.py at 2018-06-20 21:03:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.37 Mbit/s

95th percentile per-packet one-way delay: 51.600 ms

Loss rate: 0.28%

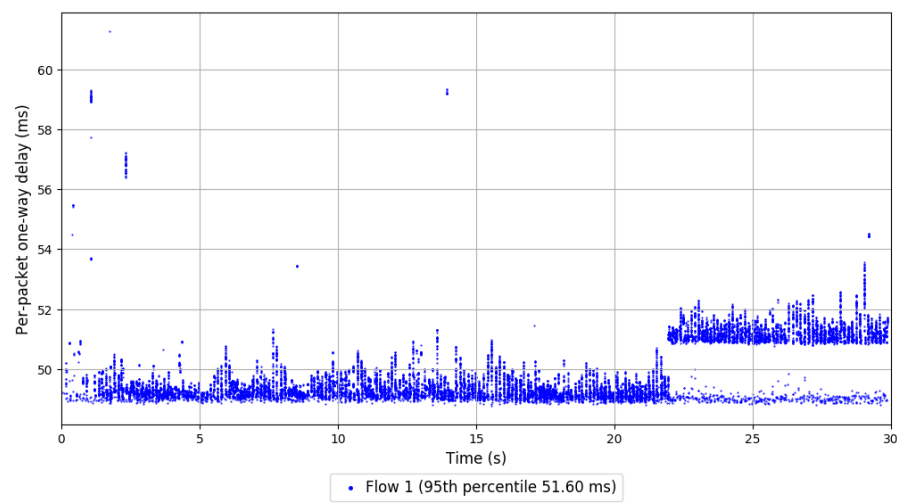
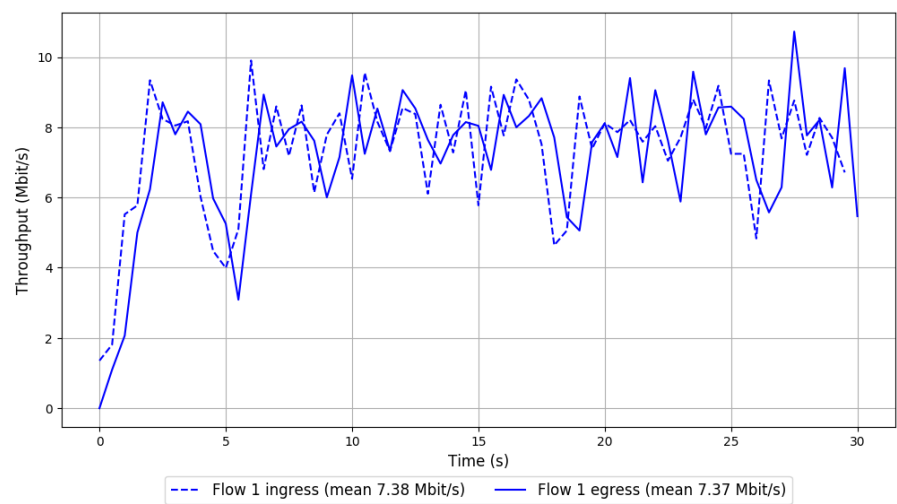
-- Flow 1:

Average throughput: 7.37 Mbit/s

95th percentile per-packet one-way delay: 51.600 ms

Loss rate: 0.28%

Run 8: Report of Sprout — Data Link

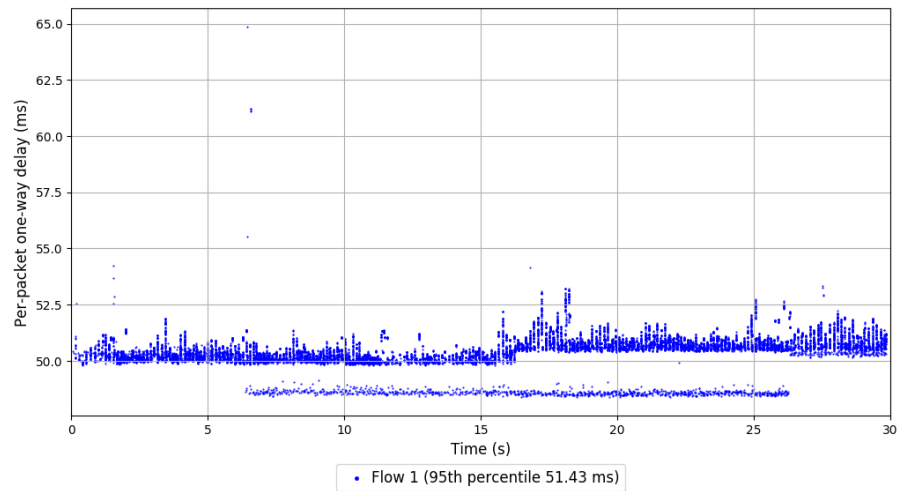
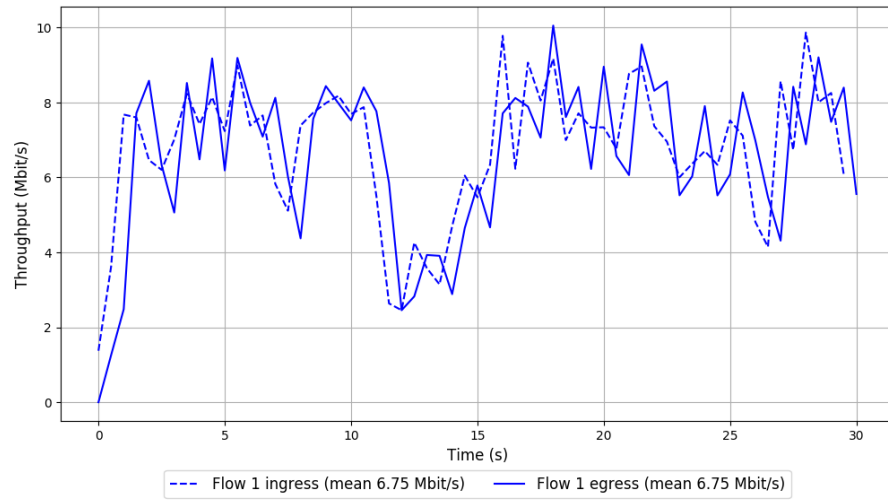


Run 9: Statistics of Sprout

Start at: 2018-06-20 19:37:13
End at: 2018-06-20 19:37:43
Local clock offset: -0.312 ms
Remote clock offset: -0.074 ms

Below is generated by plot.py at 2018-06-20 21:03:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.75 Mbit/s
95th percentile per-packet one-way delay: 51.429 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 6.75 Mbit/s
95th percentile per-packet one-way delay: 51.429 ms
Loss rate: 0.39%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-06-20 19:57:13

End at: 2018-06-20 19:57:43

Local clock offset: -0.41 ms

Remote clock offset: -0.111 ms

Below is generated by plot.py at 2018-06-20 21:03:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.81 Mbit/s

95th percentile per-packet one-way delay: 51.408 ms

Loss rate: 0.18%

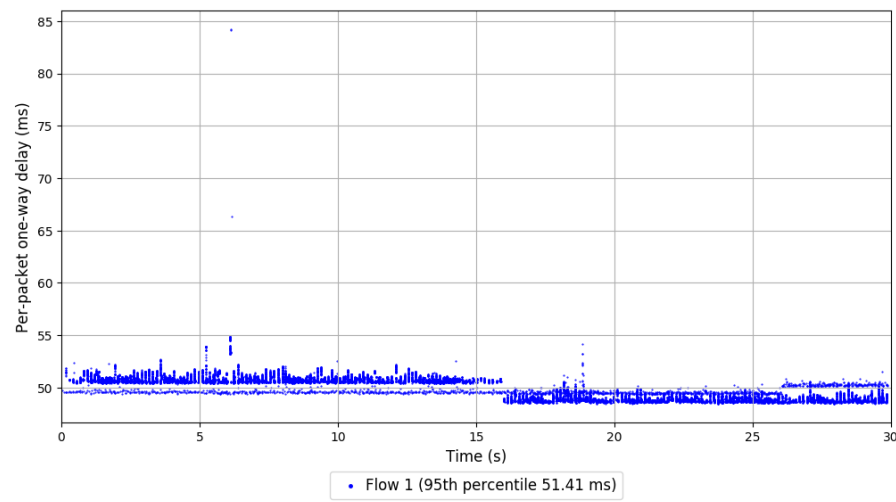
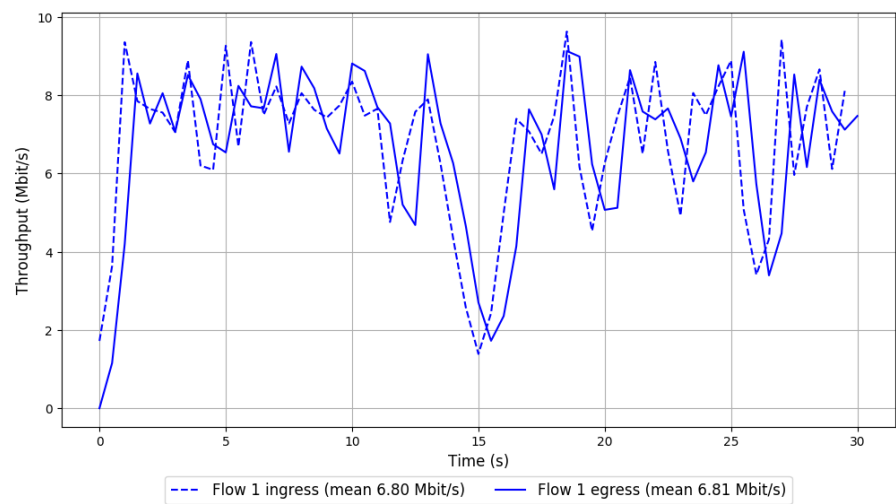
-- Flow 1:

Average throughput: 6.81 Mbit/s

95th percentile per-packet one-way delay: 51.408 ms

Loss rate: 0.18%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-06-20 16:49:55

End at: 2018-06-20 16:50:25

Local clock offset: 0.053 ms

Remote clock offset: -0.046 ms

Below is generated by plot.py at 2018-06-20 21:06:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.19 Mbit/s

95th percentile per-packet one-way delay: 51.167 ms

Loss rate: 0.35%

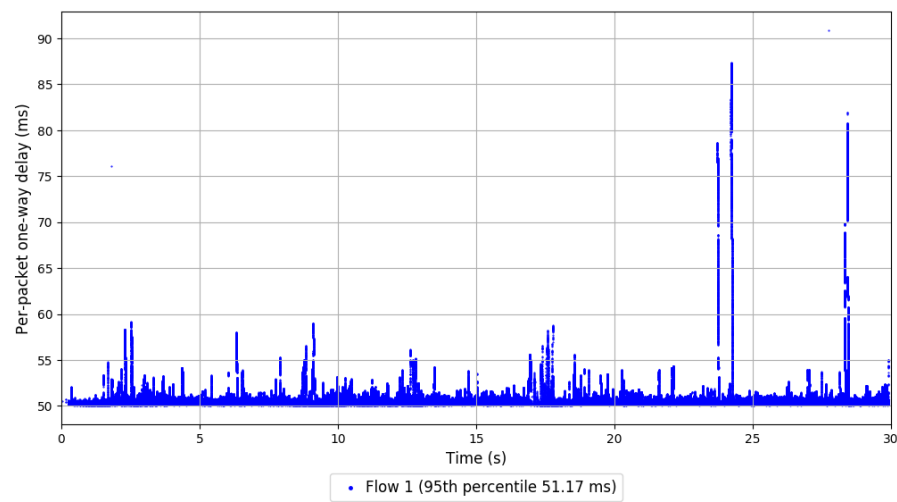
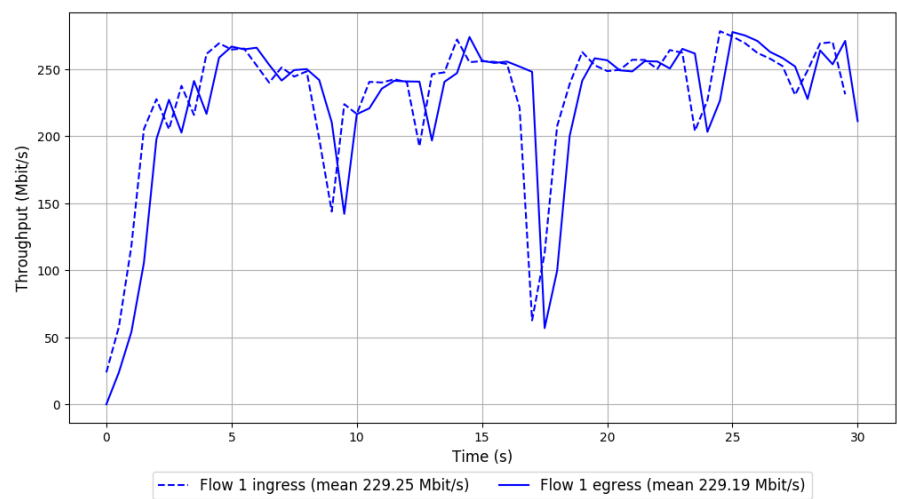
-- Flow 1:

Average throughput: 229.19 Mbit/s

95th percentile per-packet one-way delay: 51.167 ms

Loss rate: 0.35%

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

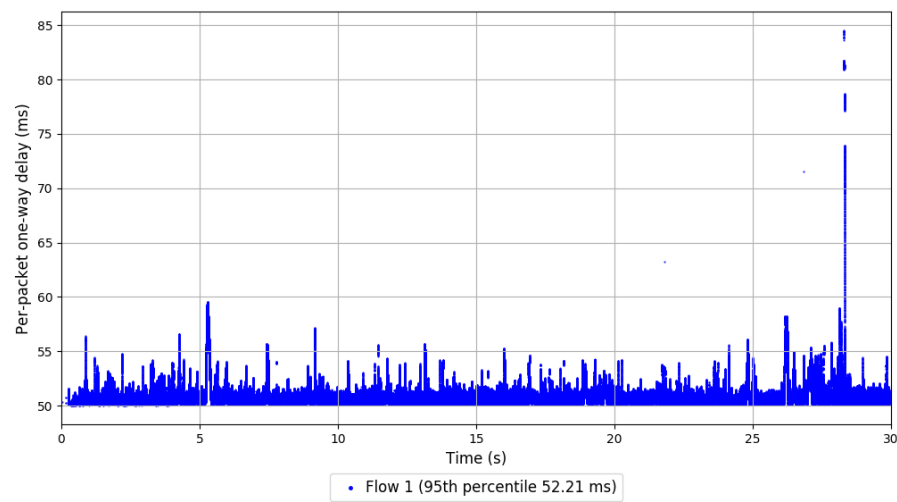
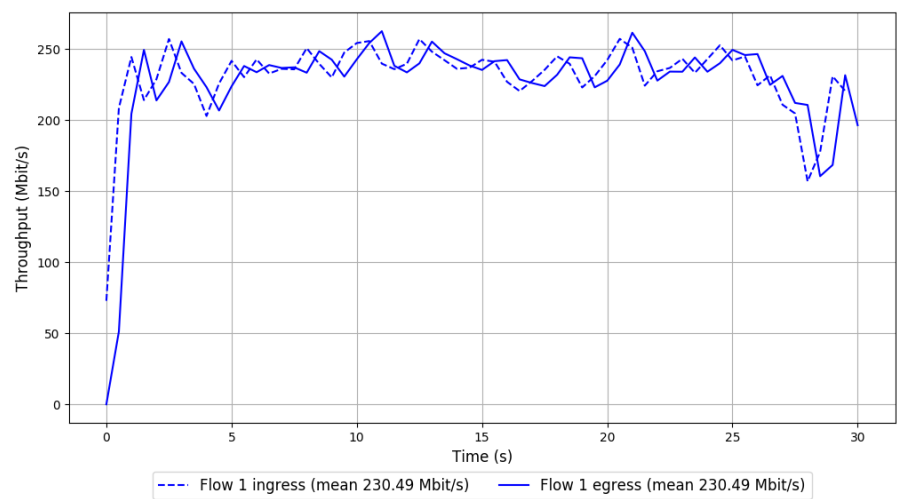


Run 2: Statistics of TaoVA-100x

Start at: 2018-06-20 17:09:45
End at: 2018-06-20 17:10:15
Local clock offset: -0.136 ms
Remote clock offset: -0.105 ms

Below is generated by plot.py at 2018-06-20 21:06:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 230.49 Mbit/s
95th percentile per-packet one-way delay: 52.214 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 230.49 Mbit/s
95th percentile per-packet one-way delay: 52.214 ms
Loss rate: 0.33%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-06-20 17:29:47

End at: 2018-06-20 17:30:17

Local clock offset: 0.056 ms

Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-06-20 21:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.99 Mbit/s

95th percentile per-packet one-way delay: 51.355 ms

Loss rate: 0.33%

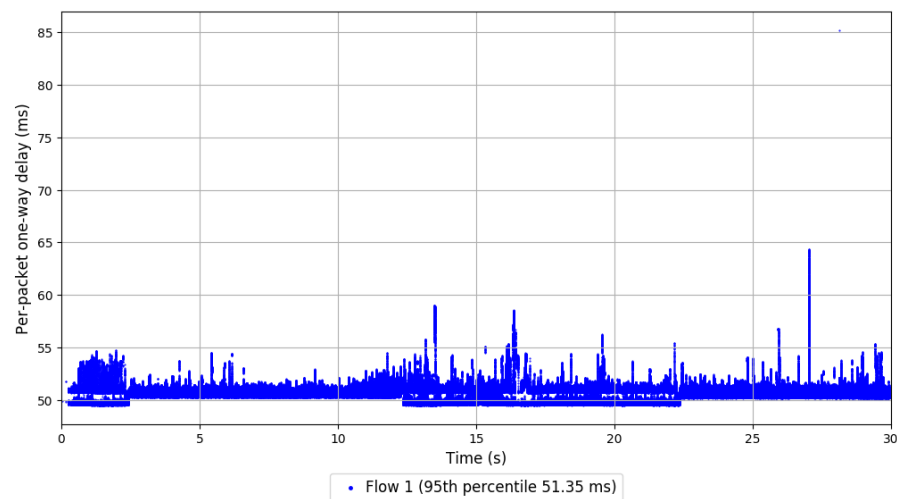
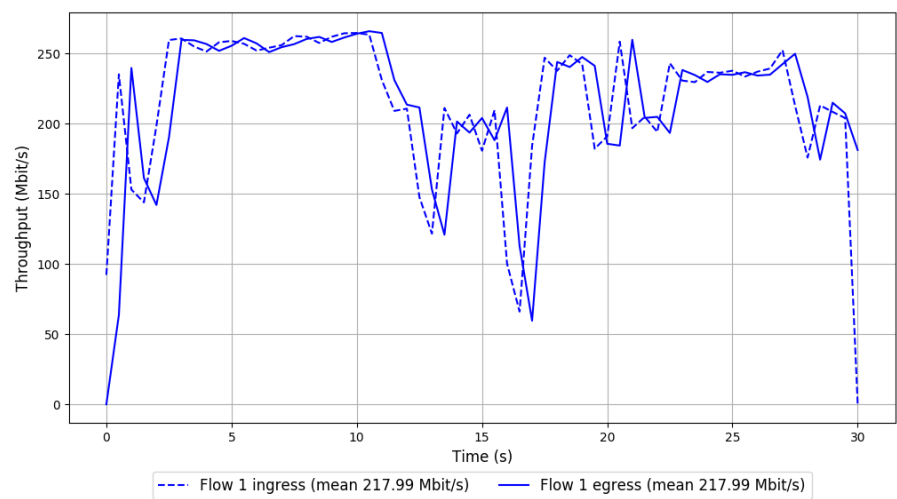
-- Flow 1:

Average throughput: 217.99 Mbit/s

95th percentile per-packet one-way delay: 51.355 ms

Loss rate: 0.33%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-06-20 17:49:57

End at: 2018-06-20 17:50:27

Local clock offset: 0.137 ms

Remote clock offset: -0.01 ms

Below is generated by plot.py at 2018-06-20 21:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 140.07 Mbit/s

95th percentile per-packet one-way delay: 51.828 ms

Loss rate: 0.47%

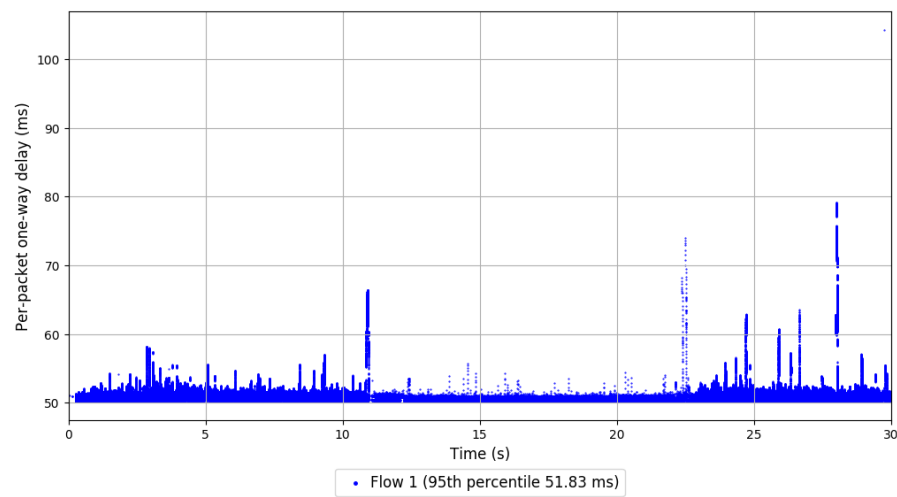
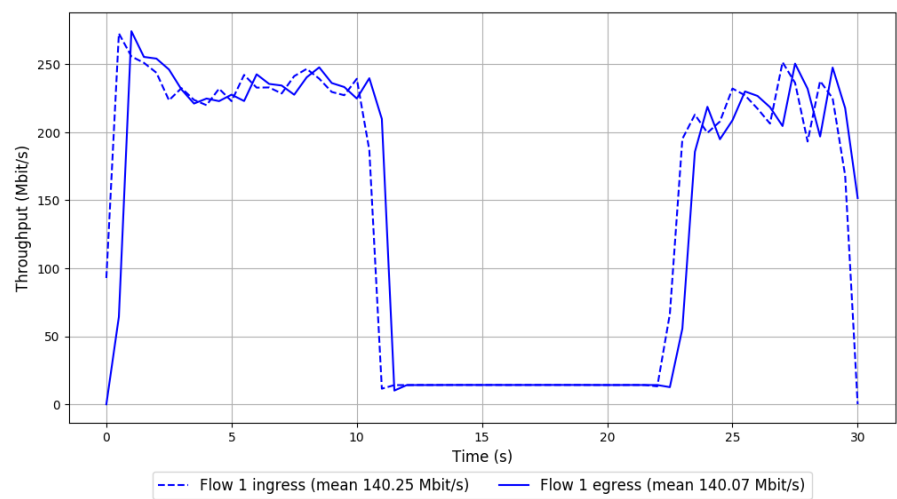
-- Flow 1:

Average throughput: 140.07 Mbit/s

95th percentile per-packet one-way delay: 51.828 ms

Loss rate: 0.47%

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

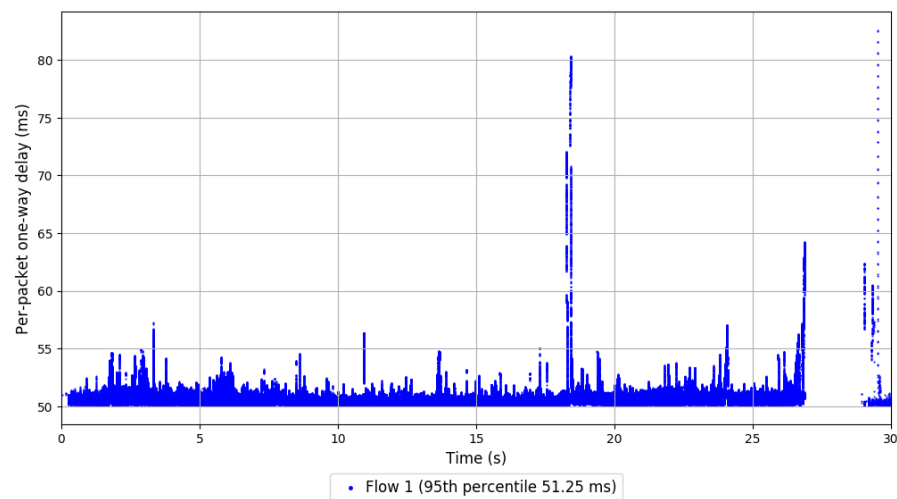
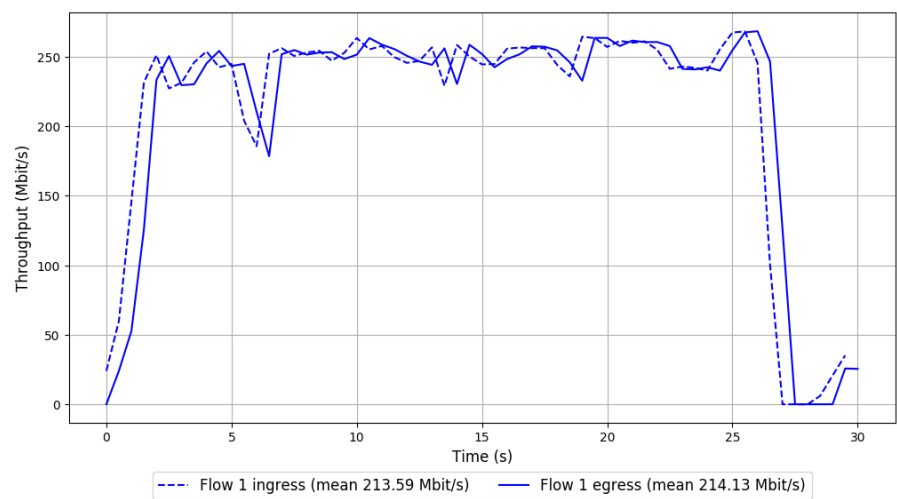


Run 5: Statistics of TaoVA-100x

Start at: 2018-06-20 18:10:01
End at: 2018-06-20 18:10:31
Local clock offset: -0.012 ms
Remote clock offset: -0.045 ms

Below is generated by plot.py at 2018-06-20 21:06:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 214.13 Mbit/s
95th percentile per-packet one-way delay: 51.250 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 214.13 Mbit/s
95th percentile per-packet one-way delay: 51.250 ms
Loss rate: 0.09%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-06-20 18:30:07

End at: 2018-06-20 18:30:37

Local clock offset: -0.387 ms

Remote clock offset: 0.072 ms

Below is generated by plot.py at 2018-06-20 21:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.96 Mbit/s

95th percentile per-packet one-way delay: 50.398 ms

Loss rate: 1.19%

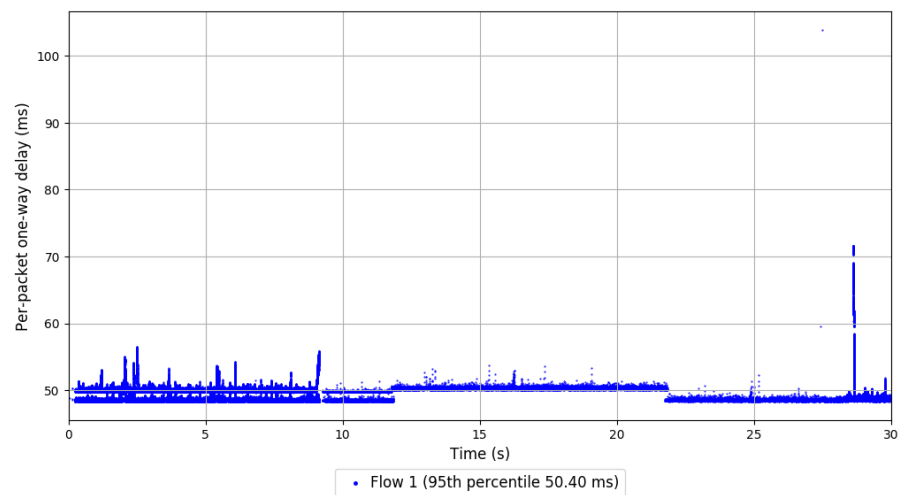
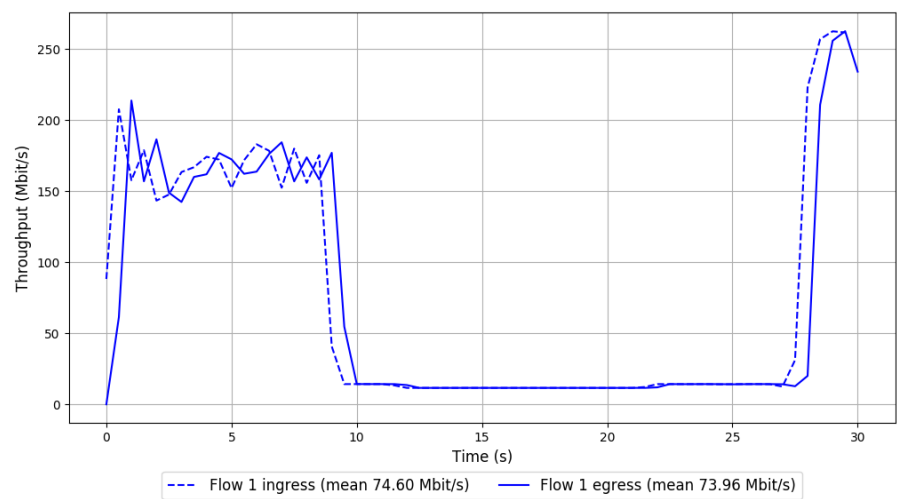
-- Flow 1:

Average throughput: 73.96 Mbit/s

95th percentile per-packet one-way delay: 50.398 ms

Loss rate: 1.19%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-06-20 18:49:54

End at: 2018-06-20 18:50:24

Local clock offset: 0.002 ms

Remote clock offset: 0.268 ms

Below is generated by plot.py at 2018-06-20 21:07:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.88 Mbit/s

95th percentile per-packet one-way delay: 50.440 ms

Loss rate: 0.15%

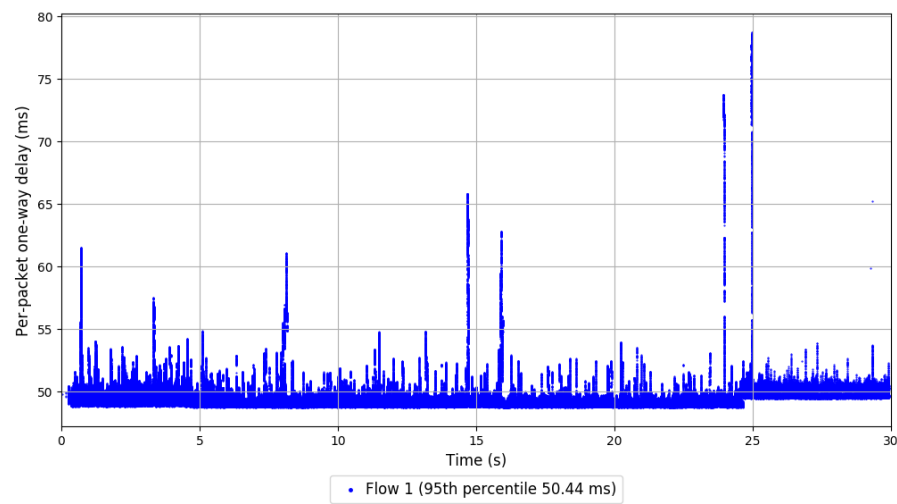
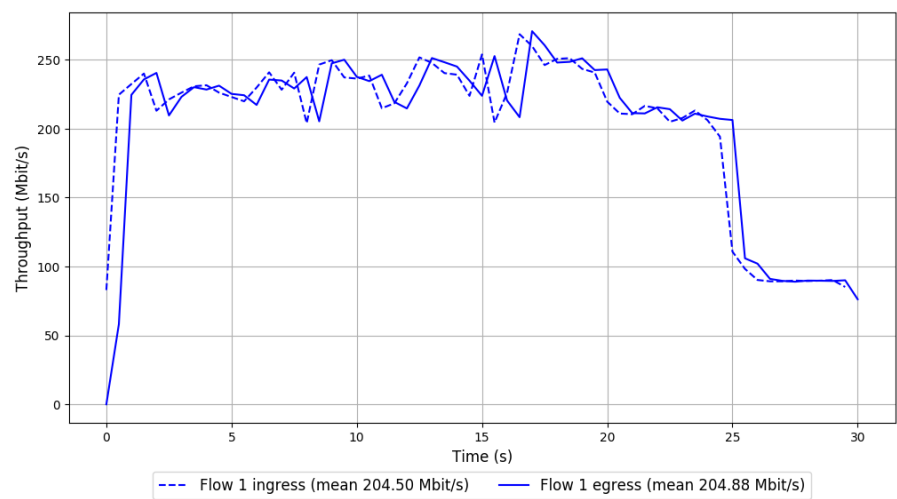
-- Flow 1:

Average throughput: 204.88 Mbit/s

95th percentile per-packet one-way delay: 50.440 ms

Loss rate: 0.15%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-06-20 19:09:51

End at: 2018-06-20 19:10:21

Local clock offset: 0.369 ms

Remote clock offset: 0.174 ms

Below is generated by plot.py at 2018-06-20 21:09:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.13 Mbit/s

95th percentile per-packet one-way delay: 51.361 ms

Loss rate: 0.51%

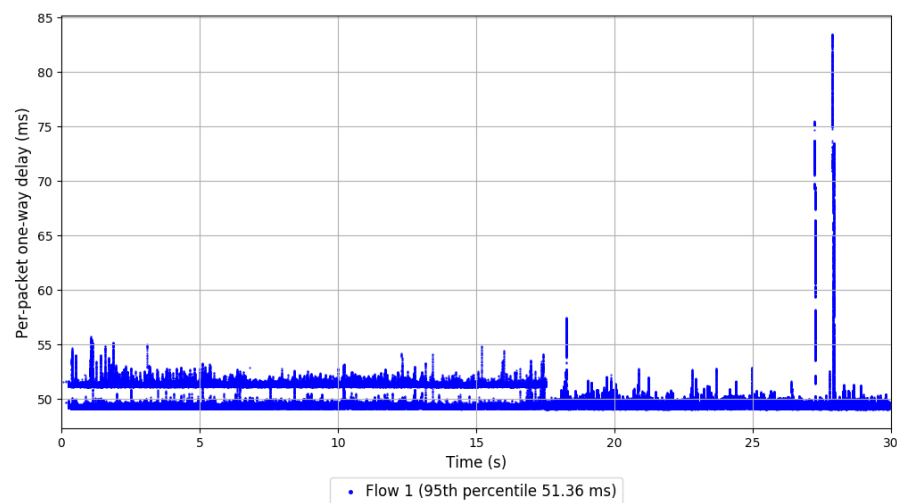
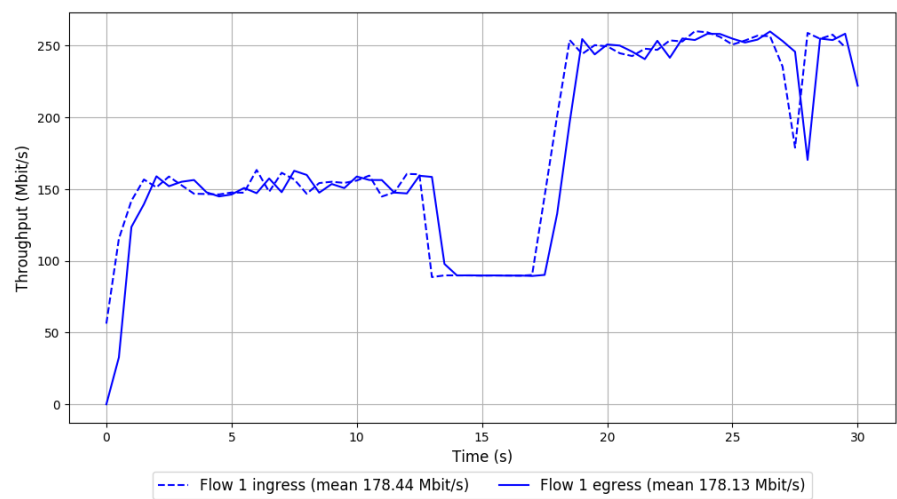
-- Flow 1:

Average throughput: 178.13 Mbit/s

95th percentile per-packet one-way delay: 51.361 ms

Loss rate: 0.51%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-06-20 19:29:43

End at: 2018-06-20 19:30:13

Local clock offset: 0.037 ms

Remote clock offset: -0.078 ms

Below is generated by plot.py at 2018-06-20 21:10:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.25 Mbit/s

95th percentile per-packet one-way delay: 50.833 ms

Loss rate: 0.42%

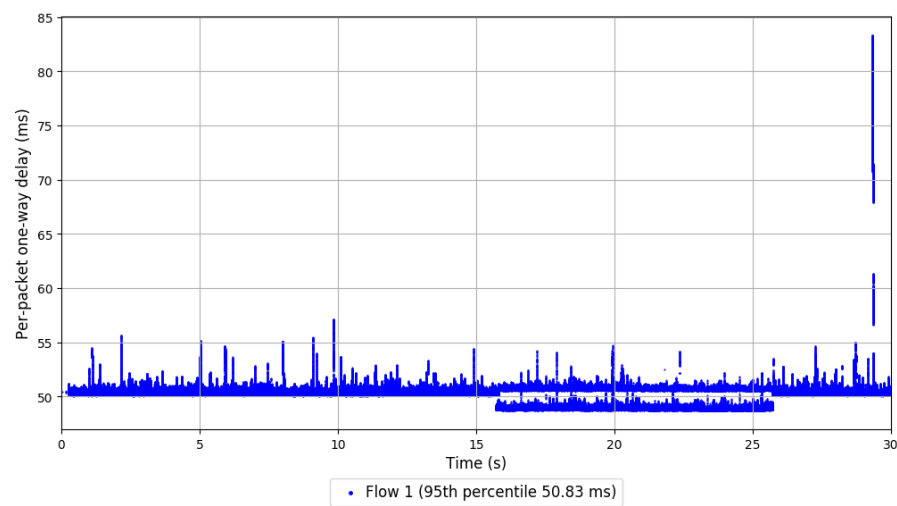
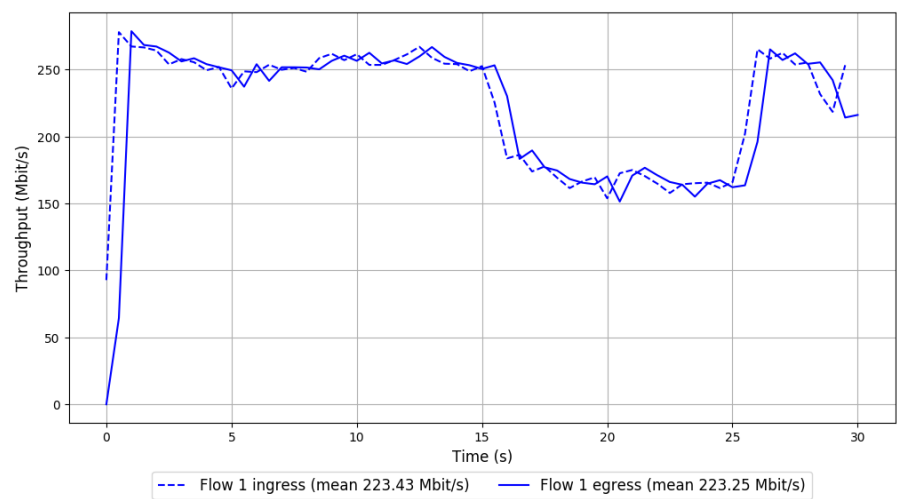
-- Flow 1:

Average throughput: 223.25 Mbit/s

95th percentile per-packet one-way delay: 50.833 ms

Loss rate: 0.42%

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

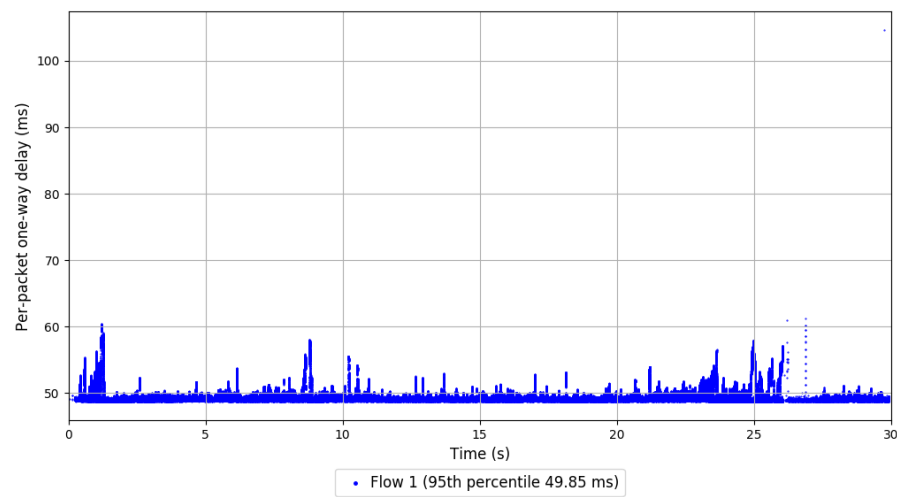
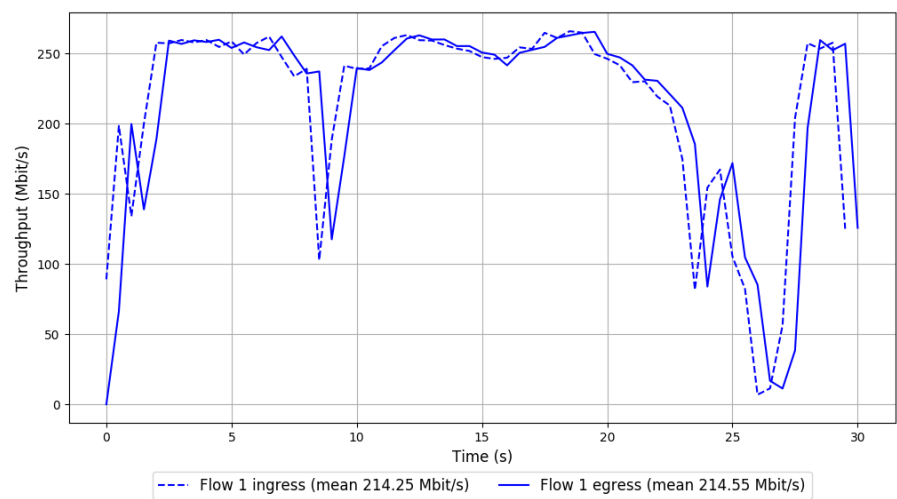


Run 10: Statistics of TaoVA-100x

Start at: 2018-06-20 19:49:45
End at: 2018-06-20 19:50:15
Local clock offset: 0.033 ms
Remote clock offset: -0.092 ms

Below is generated by plot.py at 2018-06-20 21:11:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 214.55 Mbit/s
95th percentile per-packet one-way delay: 49.846 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 214.55 Mbit/s
95th percentile per-packet one-way delay: 49.846 ms
Loss rate: 0.20%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-06-20 16:59:25

End at: 2018-06-20 16:59:55

Local clock offset: -0.058 ms

Remote clock offset: -0.1 ms

Below is generated by plot.py at 2018-06-20 21:11:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.61 Mbit/s

95th percentile per-packet one-way delay: 51.530 ms

Loss rate: 0.17%

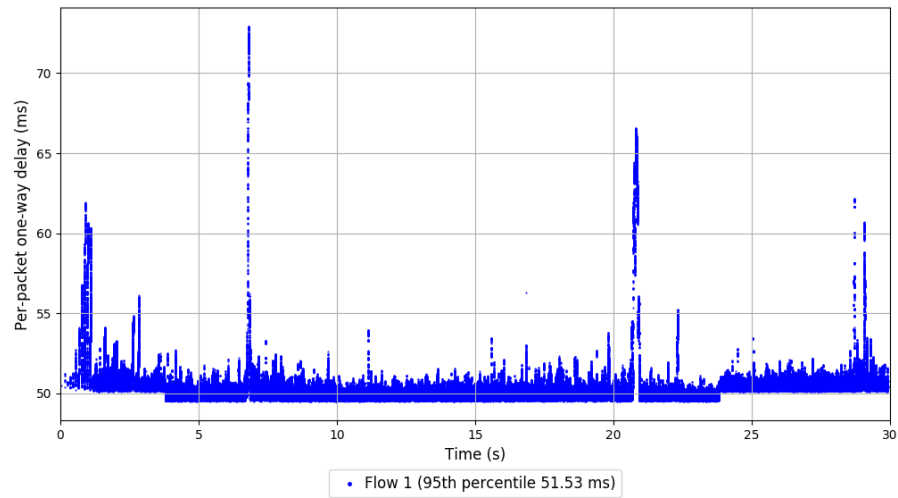
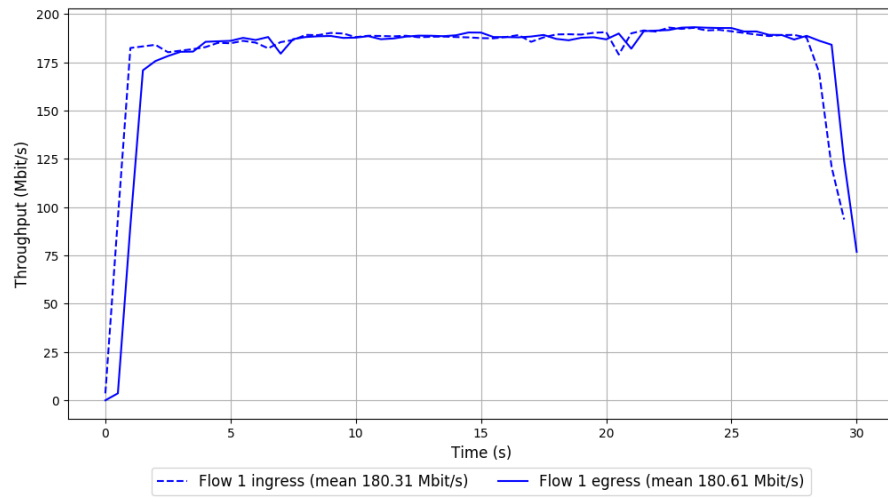
-- Flow 1:

Average throughput: 180.61 Mbit/s

95th percentile per-packet one-way delay: 51.530 ms

Loss rate: 0.17%

Run 1: Report of TCP Vegas — Data Link

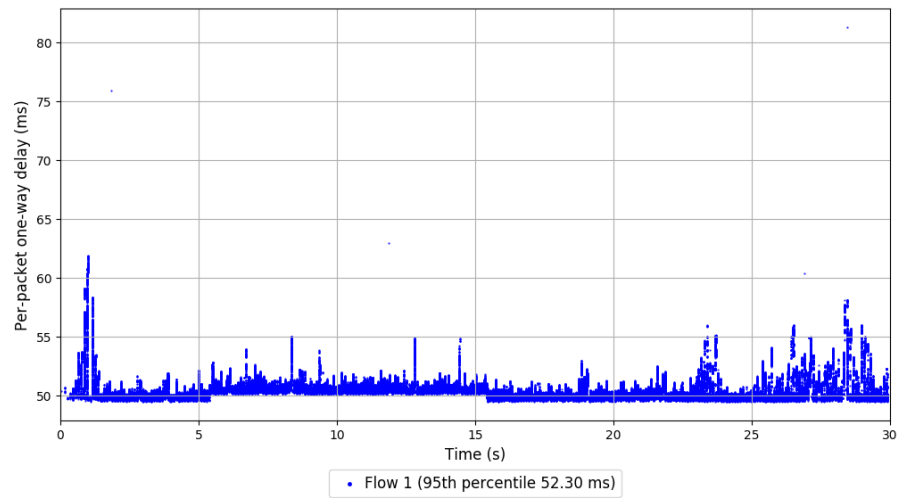
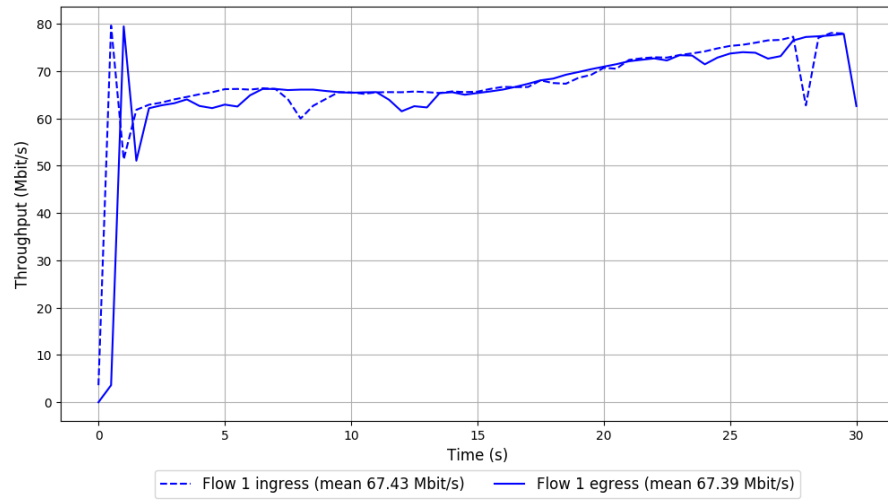


Run 2: Statistics of TCP Vegas

Start at: 2018-06-20 17:19:23
End at: 2018-06-20 17:19:53
Local clock offset: -0.125 ms
Remote clock offset: -0.116 ms

Below is generated by plot.py at 2018-06-20 21:11:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 67.39 Mbit/s
95th percentile per-packet one-way delay: 52.302 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 67.39 Mbit/s
95th percentile per-packet one-way delay: 52.302 ms
Loss rate: 0.39%

Run 2: Report of TCP Vegas — Data Link

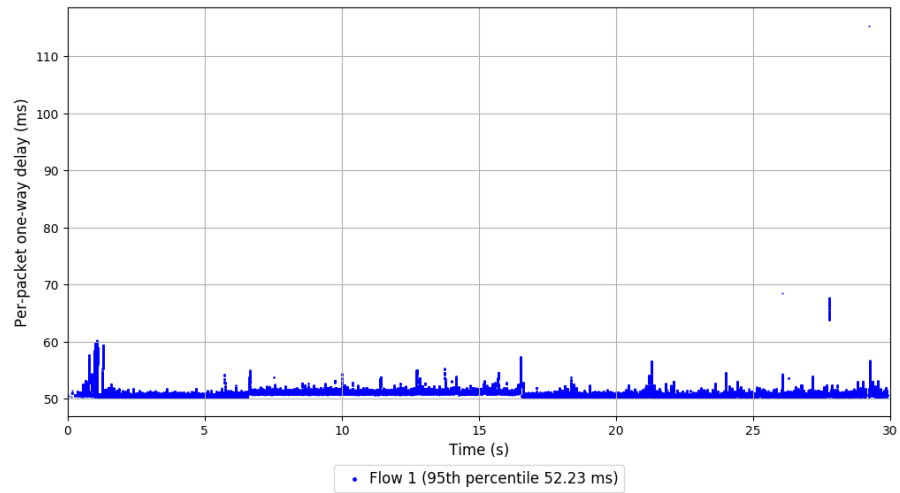
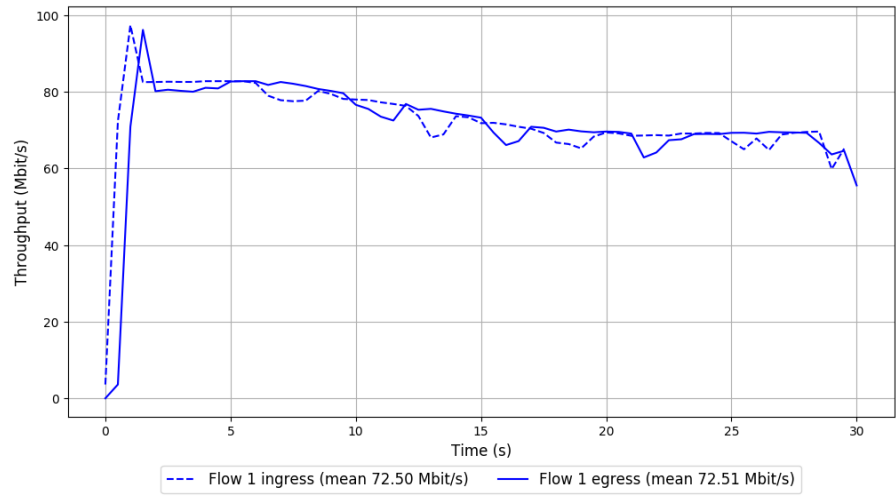


Run 3: Statistics of TCP Vegas

Start at: 2018-06-20 17:39:32
End at: 2018-06-20 17:40:02
Local clock offset: 0.067 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-06-20 21:11:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 72.51 Mbit/s
95th percentile per-packet one-way delay: 52.225 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 72.51 Mbit/s
95th percentile per-packet one-way delay: 52.225 ms
Loss rate: 0.32%

Run 3: Report of TCP Vegas — Data Link

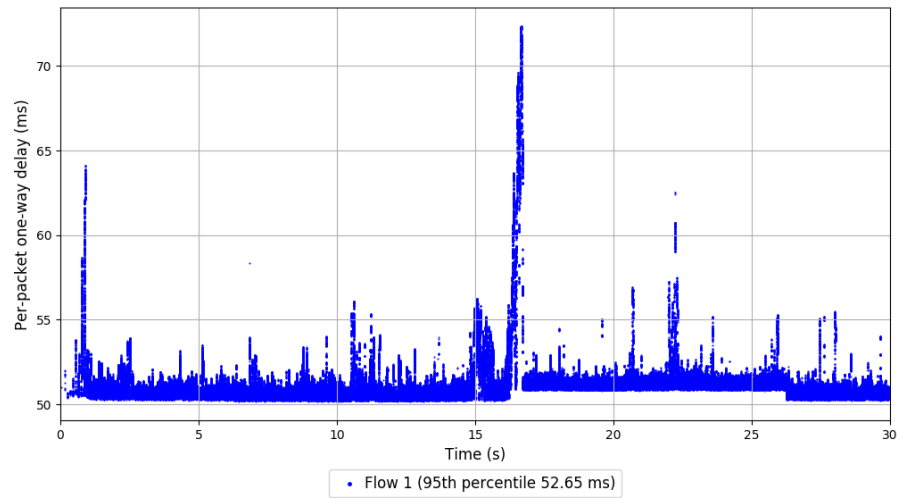
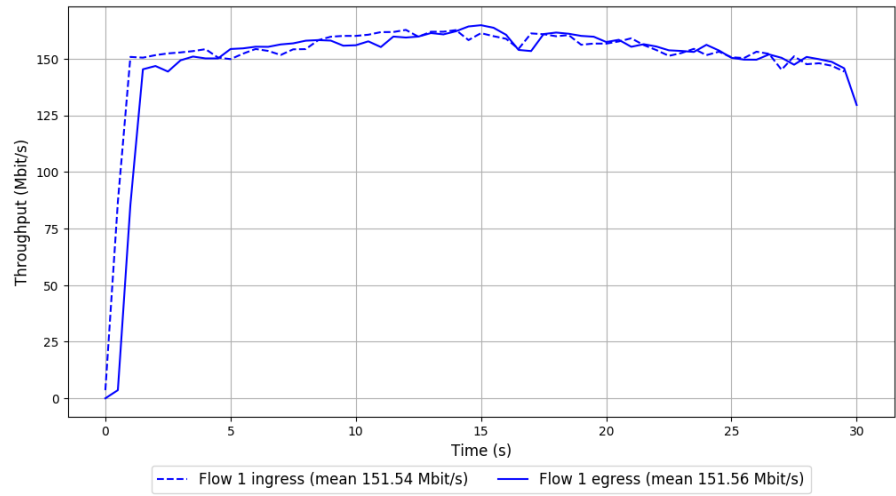


Run 4: Statistics of TCP Vegas

Start at: 2018-06-20 17:59:33
End at: 2018-06-20 18:00:03
Local clock offset: 0.079 ms
Remote clock offset: -0.027 ms

Below is generated by plot.py at 2018-06-20 21:11:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 151.56 Mbit/s
95th percentile per-packet one-way delay: 52.650 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 151.56 Mbit/s
95th percentile per-packet one-way delay: 52.650 ms
Loss rate: 0.33%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-06-20 18:19:44

End at: 2018-06-20 18:20:14

Local clock offset: -0.411 ms

Remote clock offset: -0.06 ms

Below is generated by plot.py at 2018-06-20 21:11:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.77 Mbit/s

95th percentile per-packet one-way delay: 51.226 ms

Loss rate: 0.34%

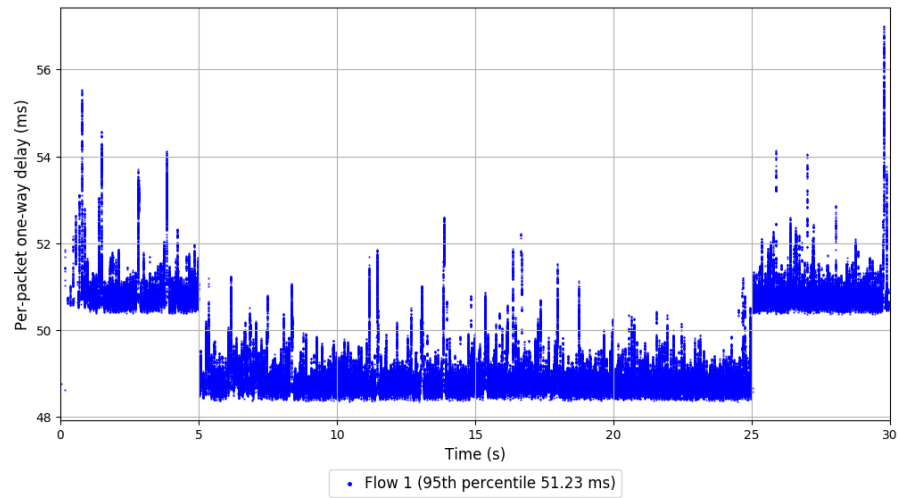
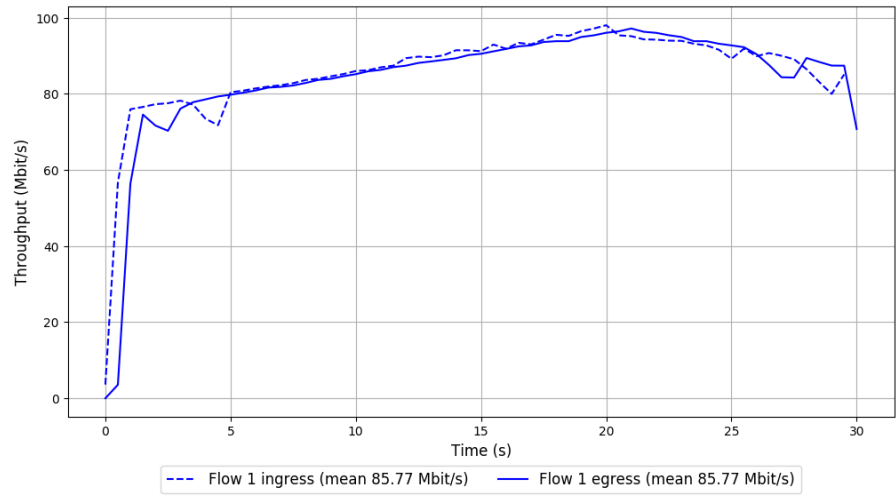
-- Flow 1:

Average throughput: 85.77 Mbit/s

95th percentile per-packet one-way delay: 51.226 ms

Loss rate: 0.34%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-06-20 18:39:40

End at: 2018-06-20 18:40:10

Local clock offset: 0.002 ms

Remote clock offset: 0.201 ms

Below is generated by plot.py at 2018-06-20 21:11:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.70 Mbit/s

95th percentile per-packet one-way delay: 52.760 ms

Loss rate: 0.32%

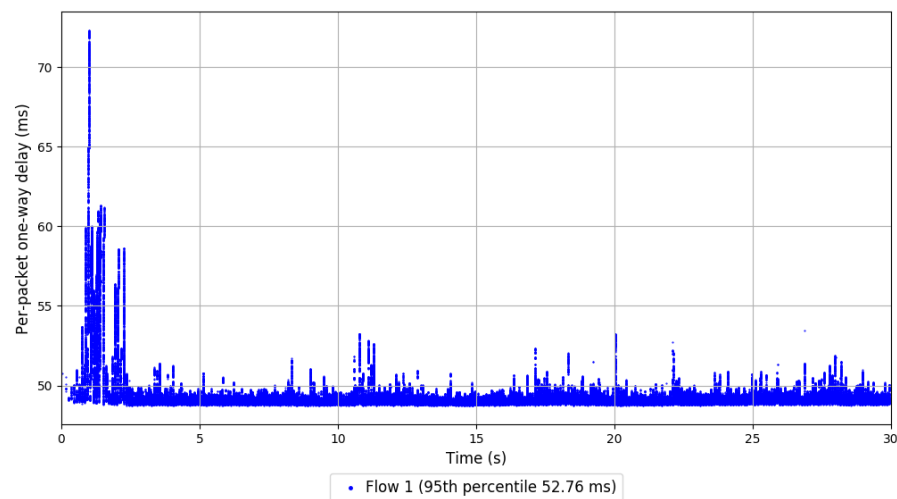
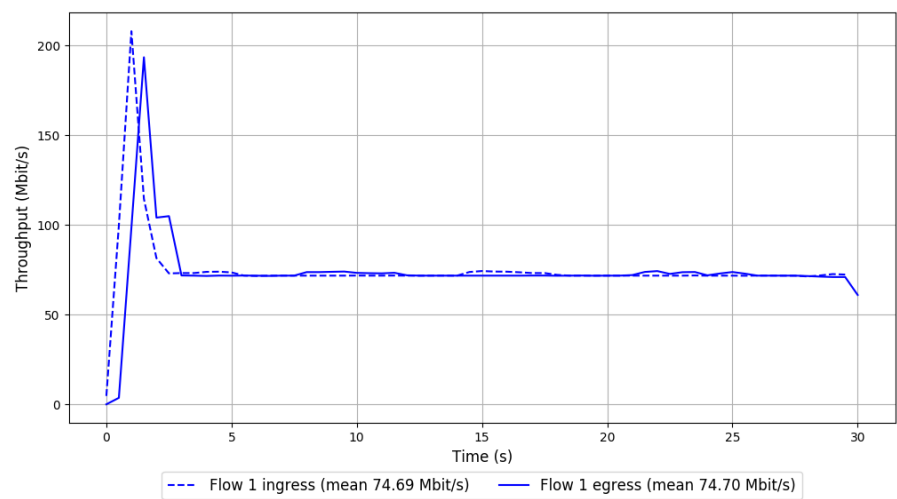
-- Flow 1:

Average throughput: 74.70 Mbit/s

95th percentile per-packet one-way delay: 52.760 ms

Loss rate: 0.32%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-06-20 18:59:38

End at: 2018-06-20 19:00:08

Local clock offset: -0.024 ms

Remote clock offset: 0.35 ms

Below is generated by plot.py at 2018-06-20 21:11:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.92 Mbit/s

95th percentile per-packet one-way delay: 50.652 ms

Loss rate: 0.36%

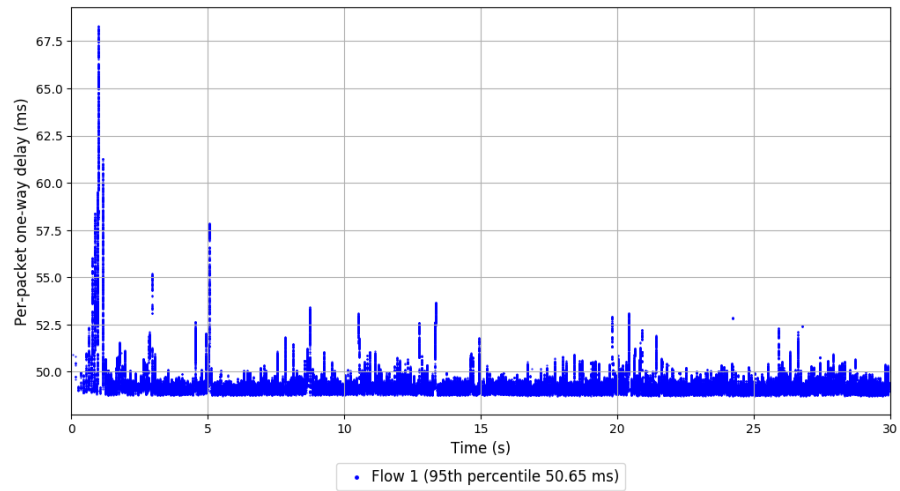
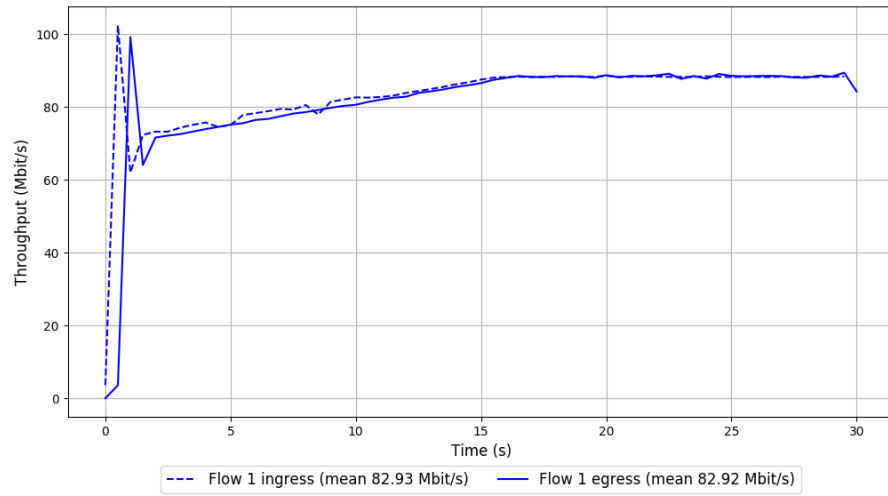
-- Flow 1:

Average throughput: 82.92 Mbit/s

95th percentile per-packet one-way delay: 50.652 ms

Loss rate: 0.36%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-06-20 19:19:32

End at: 2018-06-20 19:20:02

Local clock offset: -0.318 ms

Remote clock offset: 0.033 ms

Below is generated by plot.py at 2018-06-20 21:11:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.63 Mbit/s

95th percentile per-packet one-way delay: 52.629 ms

Loss rate: 0.35%

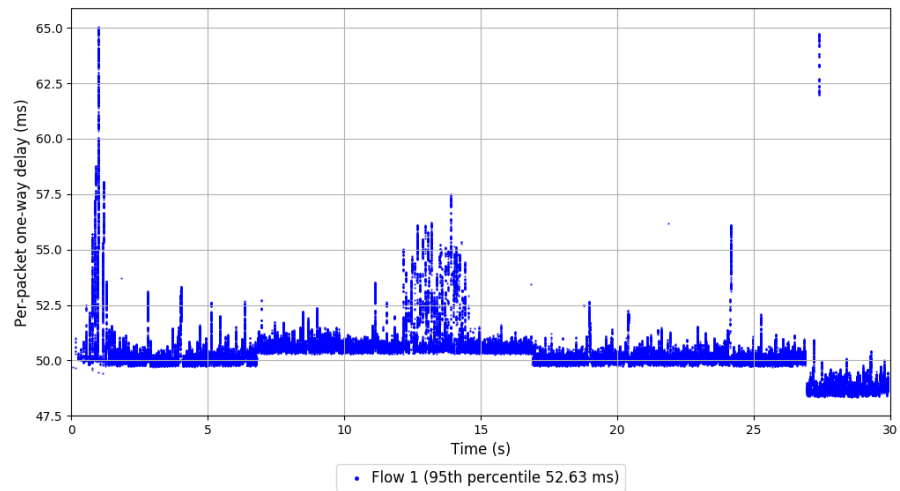
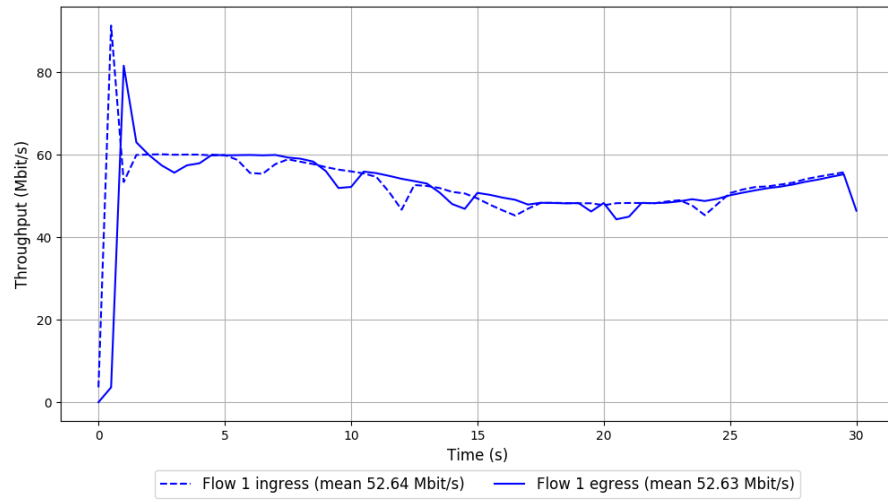
-- Flow 1:

Average throughput: 52.63 Mbit/s

95th percentile per-packet one-way delay: 52.629 ms

Loss rate: 0.35%

Run 8: Report of TCP Vegas — Data Link

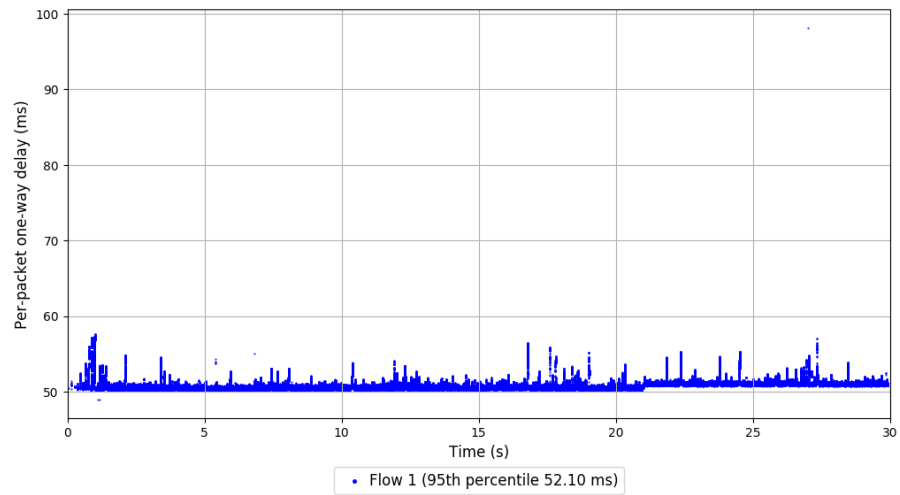
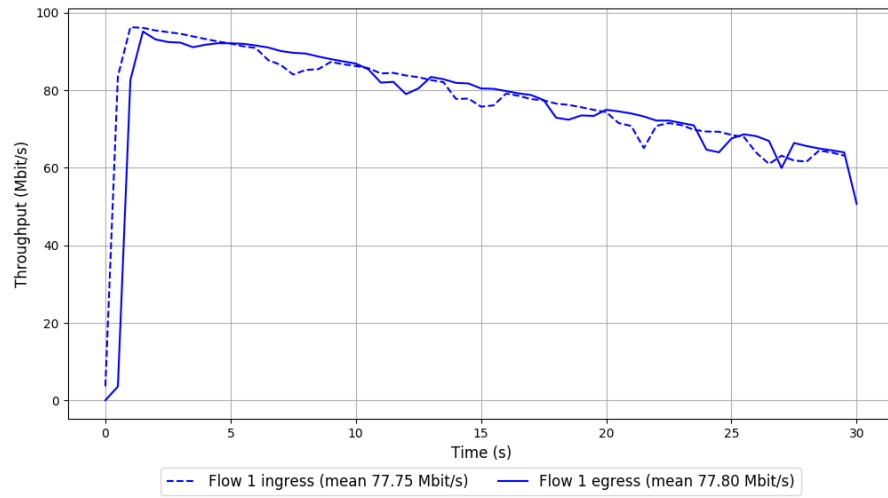


Run 9: Statistics of TCP Vegas

Start at: 2018-06-20 19:39:28
End at: 2018-06-20 19:39:58
Local clock offset: 0.089 ms
Remote clock offset: -0.101 ms

Below is generated by plot.py at 2018-06-20 21:11:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.80 Mbit/s
95th percentile per-packet one-way delay: 52.103 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 77.80 Mbit/s
95th percentile per-packet one-way delay: 52.103 ms
Loss rate: 0.27%

Run 9: Report of TCP Vegas — Data Link

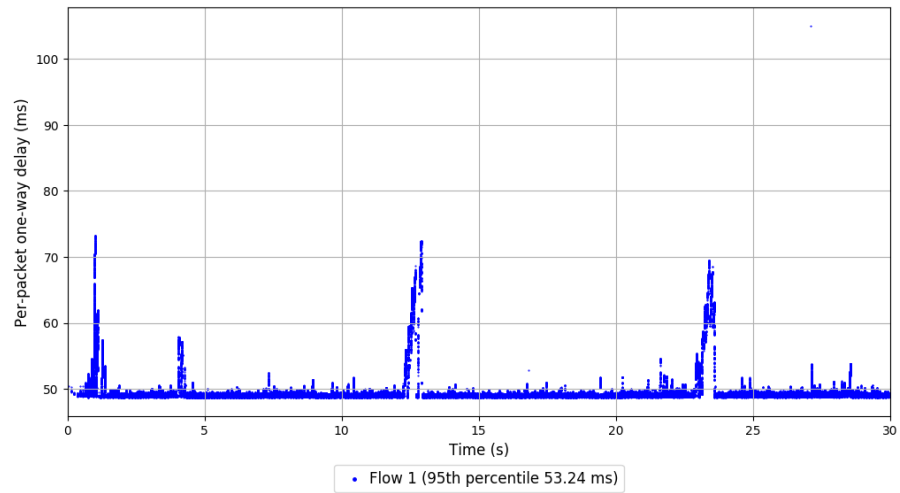
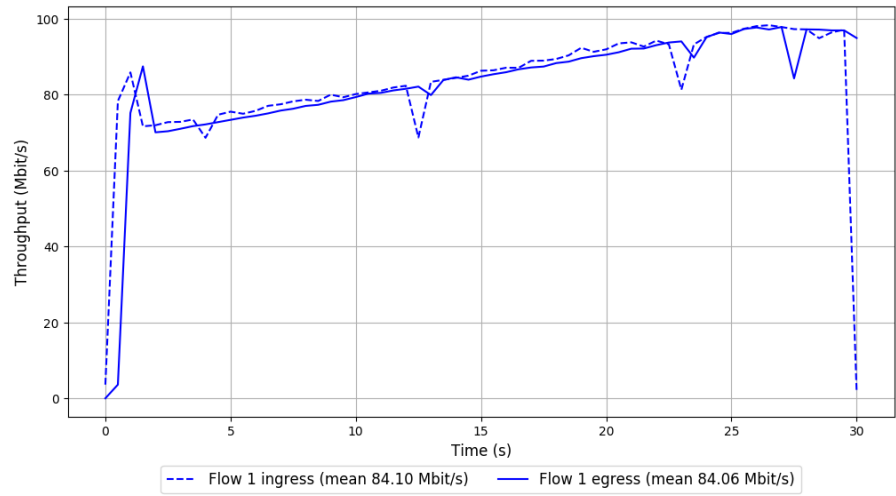


Run 10: Statistics of TCP Vegas

Start at: 2018-06-20 19:59:28
End at: 2018-06-20 19:59:58
Local clock offset: -0.055 ms
Remote clock offset: -0.089 ms

Below is generated by plot.py at 2018-06-20 21:11:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.06 Mbit/s
95th percentile per-packet one-way delay: 53.238 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 84.06 Mbit/s
95th percentile per-packet one-way delay: 53.238 ms
Loss rate: 0.38%

Run 10: Report of TCP Vegas — Data Link

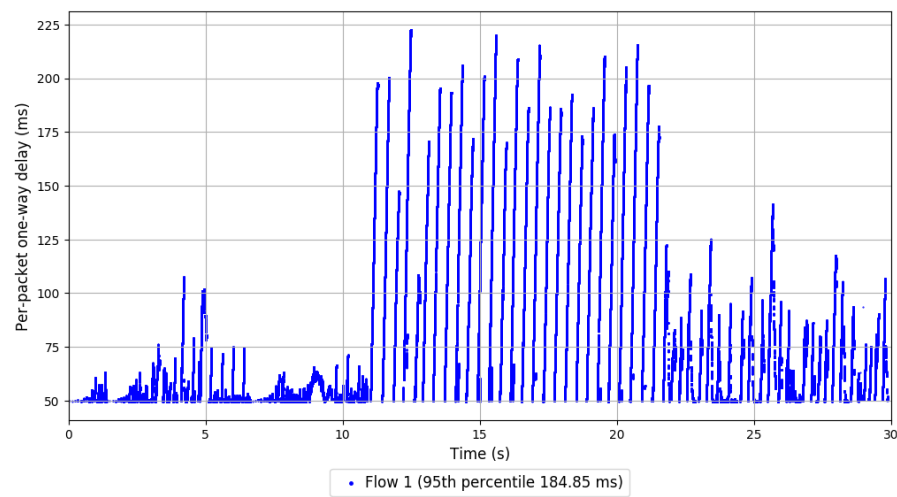
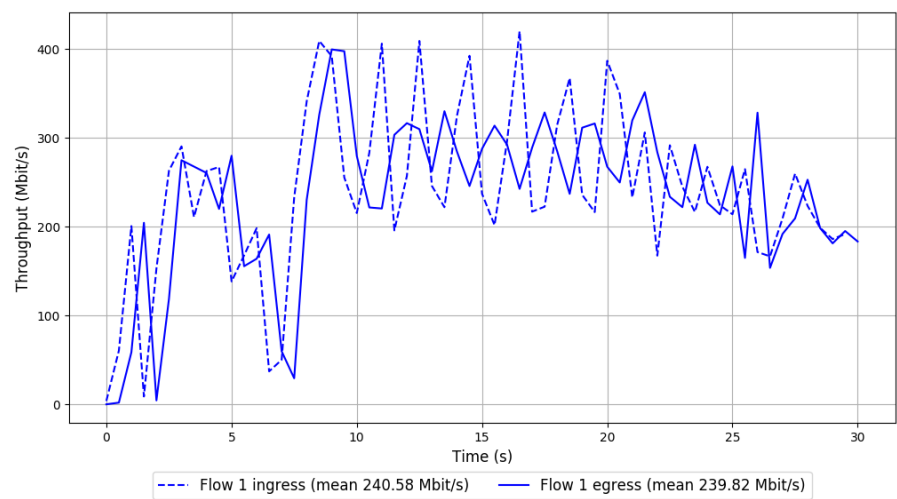


Run 1: Statistics of Verus

Start at: 2018-06-20 16:51:20
End at: 2018-06-20 16:51:50
Local clock offset: 0.029 ms
Remote clock offset: -0.086 ms

Below is generated by plot.py at 2018-06-20 21:13:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 239.82 Mbit/s
95th percentile per-packet one-way delay: 184.852 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 239.82 Mbit/s
95th percentile per-packet one-way delay: 184.852 ms
Loss rate: 0.61%

Run 1: Report of Verus — Data Link

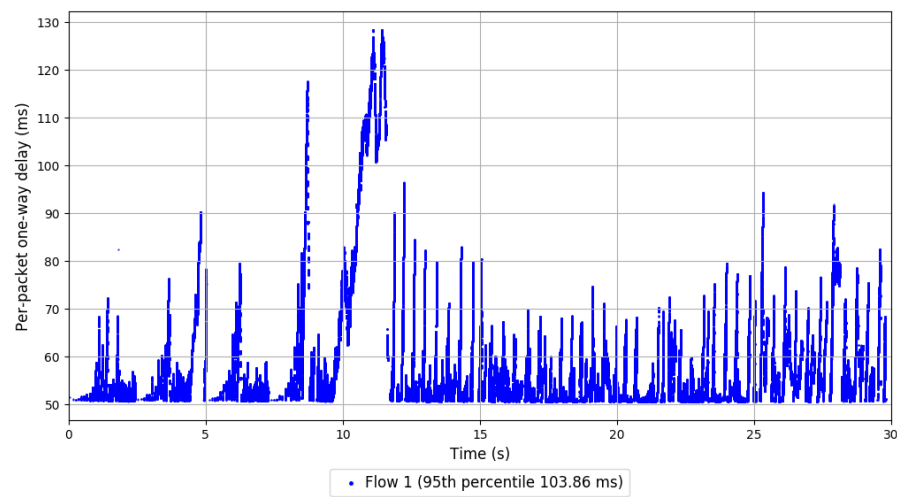
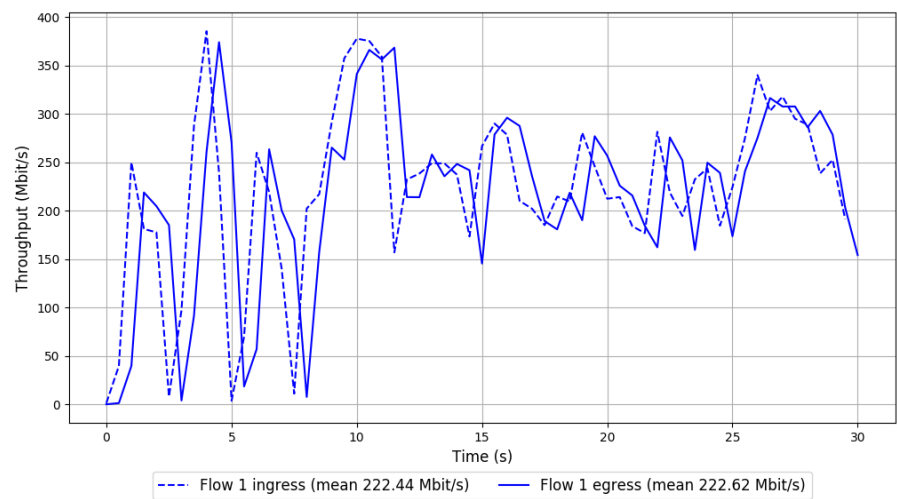


Run 2: Statistics of Verus

Start at: 2018-06-20 17:11:10
End at: 2018-06-20 17:11:40
Local clock offset: 0.301 ms
Remote clock offset: -0.088 ms

Below is generated by plot.py at 2018-06-20 21:13:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 222.62 Mbit/s
95th percentile per-packet one-way delay: 103.857 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 222.62 Mbit/s
95th percentile per-packet one-way delay: 103.857 ms
Loss rate: 0.65%

Run 2: Report of Verus — Data Link

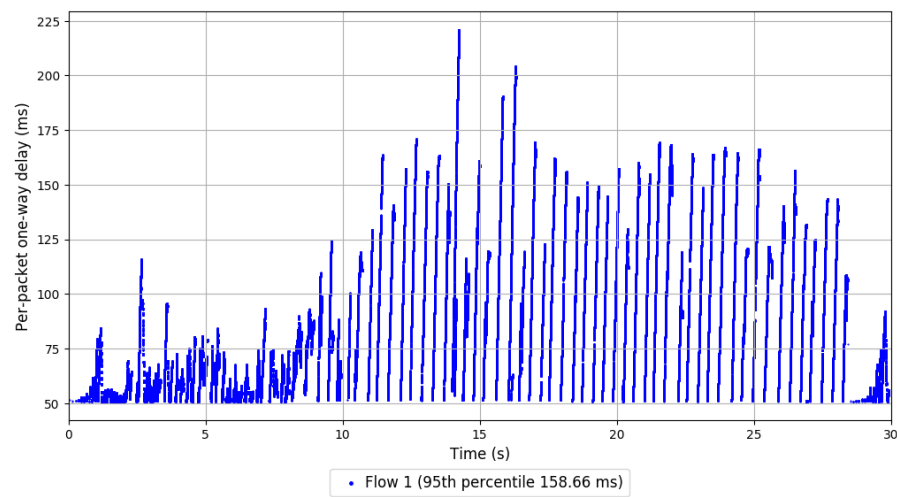
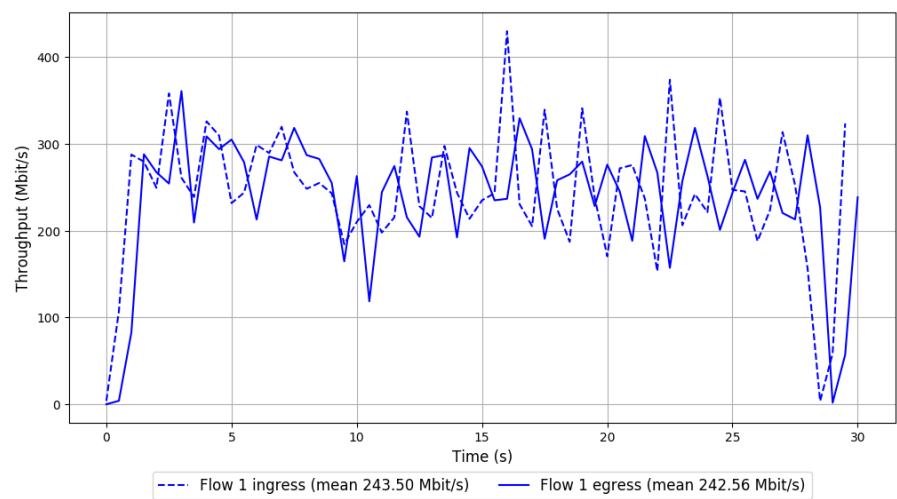


Run 3: Statistics of Verus

Start at: 2018-06-20 17:31:11
End at: 2018-06-20 17:31:41
Local clock offset: 0.421 ms
Remote clock offset: -0.107 ms

Below is generated by plot.py at 2018-06-20 21:14:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 242.56 Mbit/s
95th percentile per-packet one-way delay: 158.656 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 242.56 Mbit/s
95th percentile per-packet one-way delay: 158.656 ms
Loss rate: 0.72%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-06-20 17:51:14

End at: 2018-06-20 17:51:44

Local clock offset: 0.074 ms

Remote clock offset: 0.012 ms

Below is generated by plot.py at 2018-06-20 21:14:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.97 Mbit/s

95th percentile per-packet one-way delay: 79.233 ms

Loss rate: 0.66%

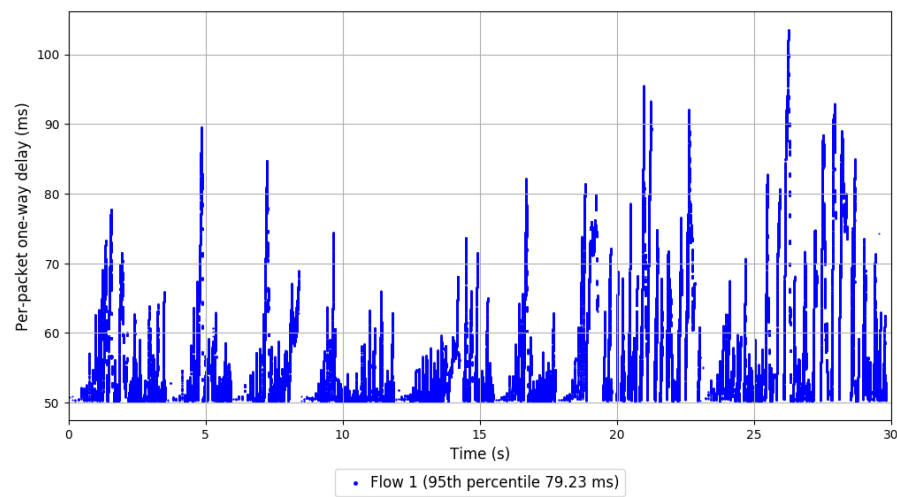
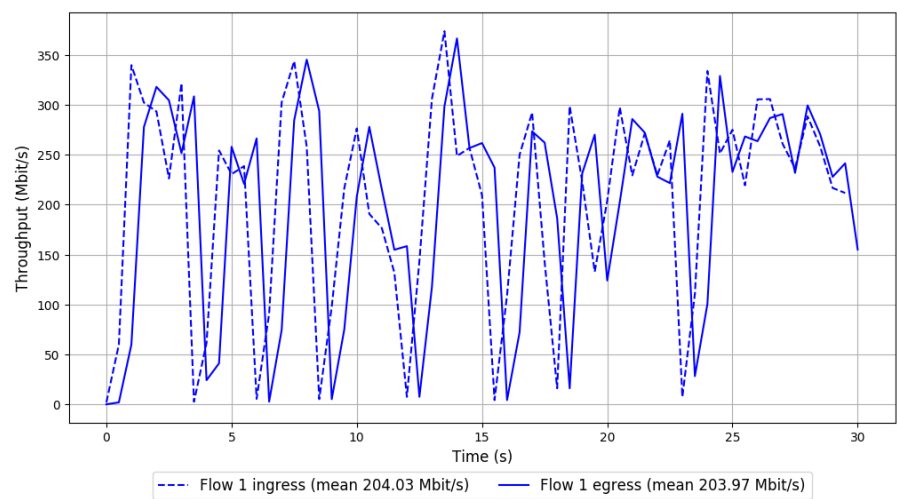
-- Flow 1:

Average throughput: 203.97 Mbit/s

95th percentile per-packet one-way delay: 79.233 ms

Loss rate: 0.66%

Run 4: Report of Verus — Data Link

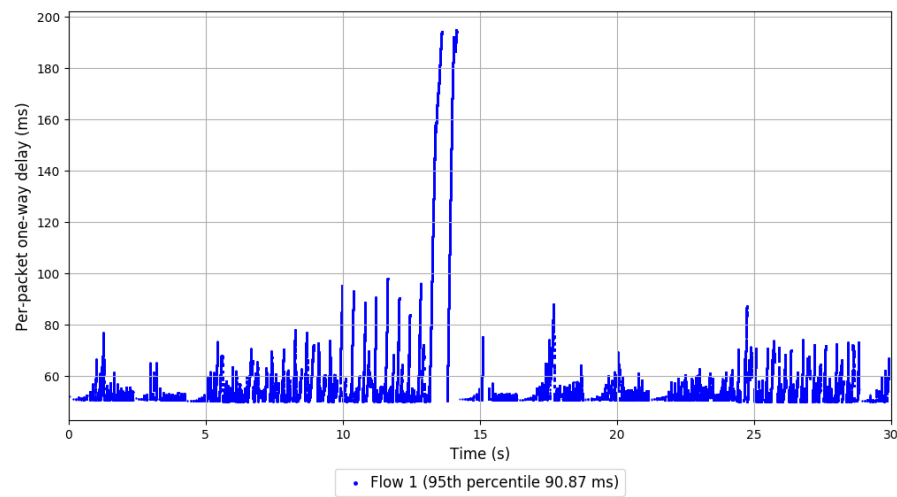
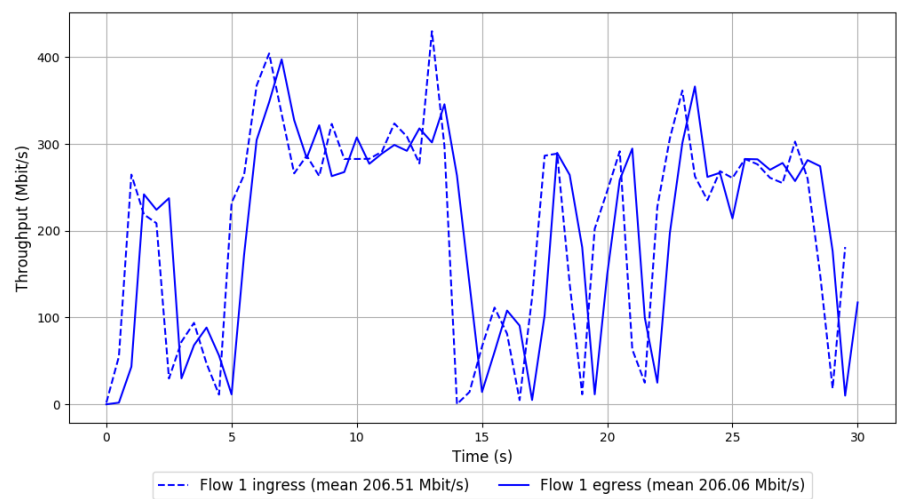


Run 5: Statistics of Verus

Start at: 2018-06-20 18:11:25
End at: 2018-06-20 18:11:55
Local clock offset: 0.02 ms
Remote clock offset: -0.031 ms

Below is generated by plot.py at 2018-06-20 21:14:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 206.06 Mbit/s
95th percentile per-packet one-way delay: 90.871 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 206.06 Mbit/s
95th percentile per-packet one-way delay: 90.871 ms
Loss rate: 0.58%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-06-20 18:31:19

End at: 2018-06-20 18:31:49

Local clock offset: 0.013 ms

Remote clock offset: 0.089 ms

Below is generated by plot.py at 2018-06-20 21:14:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 234.83 Mbit/s

95th percentile per-packet one-way delay: 95.097 ms

Loss rate: 0.53%

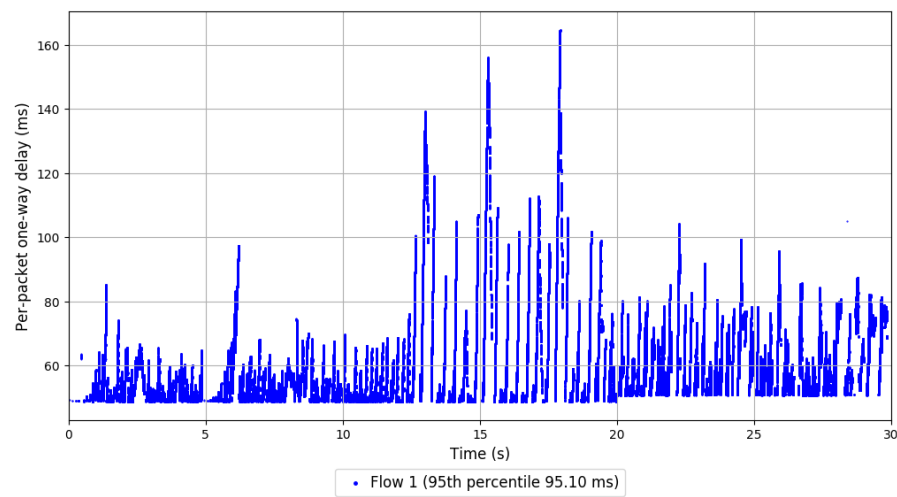
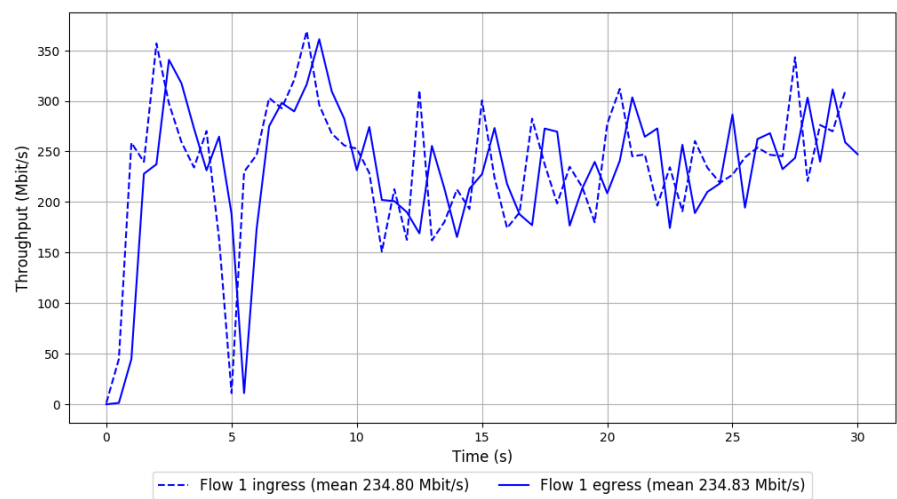
-- Flow 1:

Average throughput: 234.83 Mbit/s

95th percentile per-packet one-way delay: 95.097 ms

Loss rate: 0.53%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-06-20 18:51:17

End at: 2018-06-20 18:51:47

Local clock offset: -0.021 ms

Remote clock offset: 0.342 ms

Below is generated by plot.py at 2018-06-20 21:15:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 251.11 Mbit/s

95th percentile per-packet one-way delay: 87.558 ms

Loss rate: 0.31%

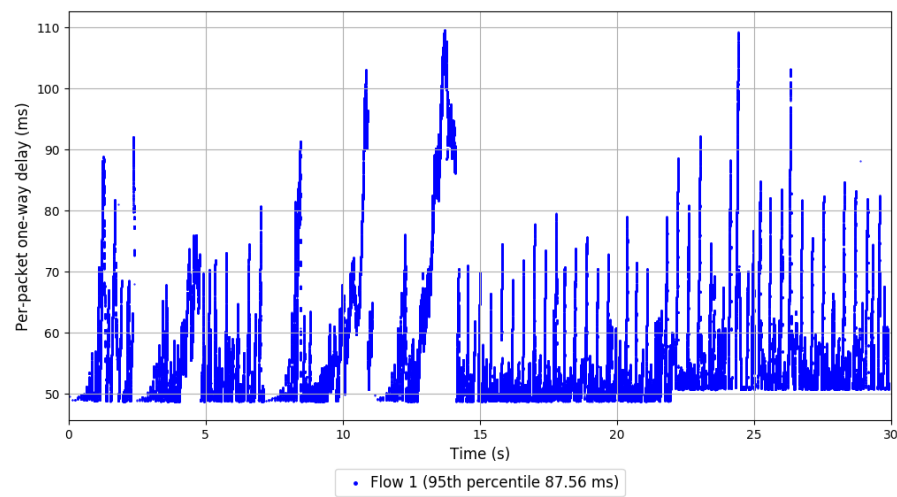
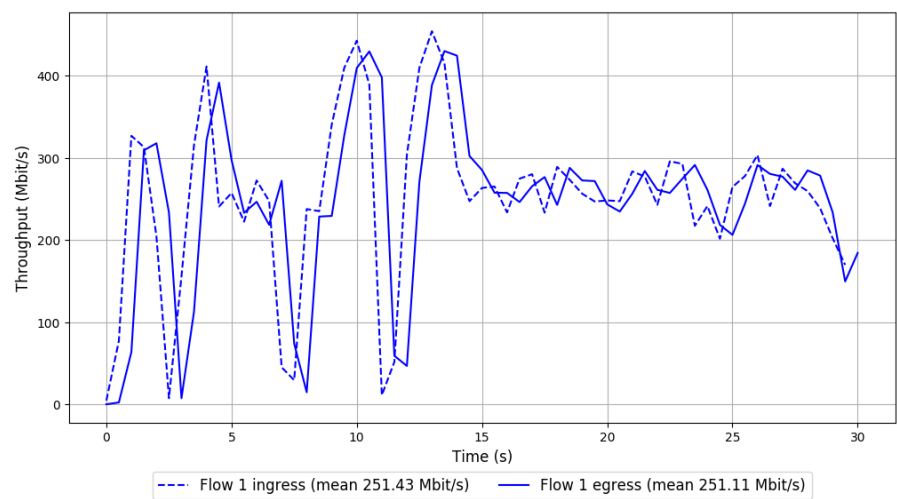
-- Flow 1:

Average throughput: 251.11 Mbit/s

95th percentile per-packet one-way delay: 87.558 ms

Loss rate: 0.31%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-06-20 19:11:11

End at: 2018-06-20 19:11:41

Local clock offset: 0.025 ms

Remote clock offset: 0.166 ms

Below is generated by plot.py at 2018-06-20 21:15:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.39 Mbit/s

95th percentile per-packet one-way delay: 80.874 ms

Loss rate: 0.43%

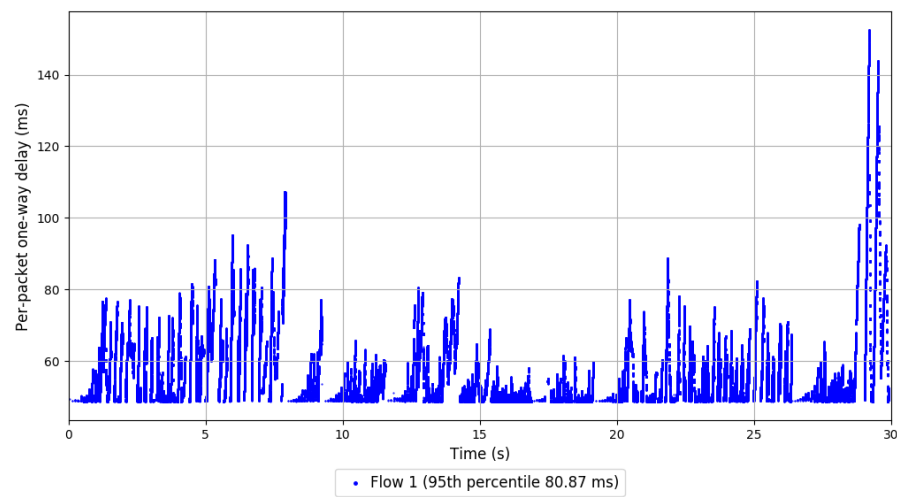
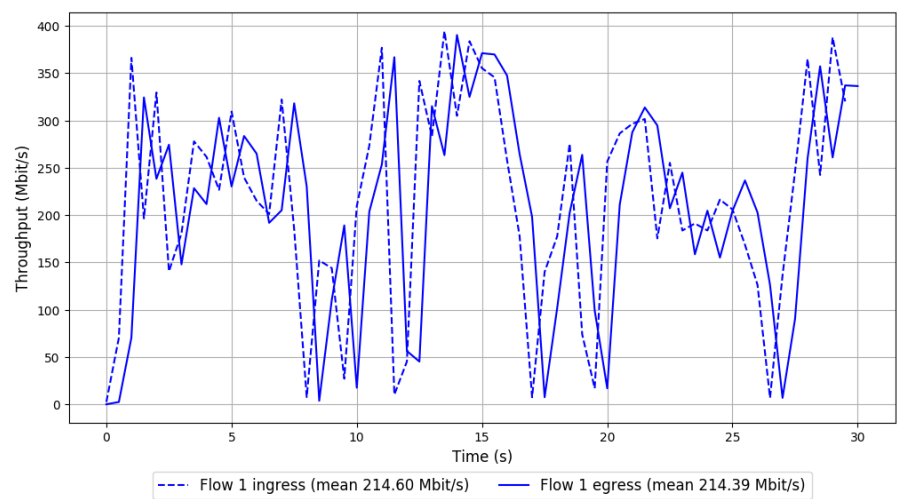
-- Flow 1:

Average throughput: 214.39 Mbit/s

95th percentile per-packet one-way delay: 80.874 ms

Loss rate: 0.43%

Run 8: Report of Verus — Data Link

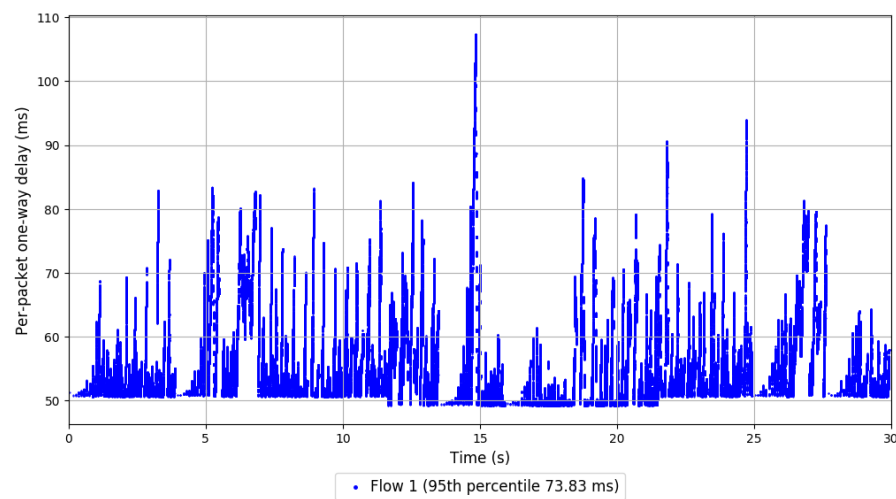
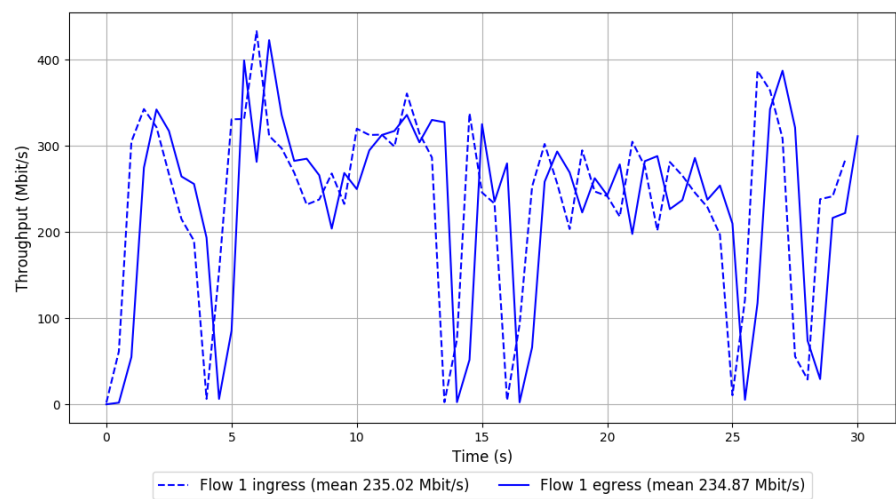


Run 9: Statistics of Verus

Start at: 2018-06-20 19:31:07
End at: 2018-06-20 19:31:37
Local clock offset: 0.428 ms
Remote clock offset: -0.119 ms

Below is generated by plot.py at 2018-06-20 21:17:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 234.87 Mbit/s
95th percentile per-packet one-way delay: 73.829 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 234.87 Mbit/s
95th percentile per-packet one-way delay: 73.829 ms
Loss rate: 0.10%

Run 9: Report of Verus — Data Link

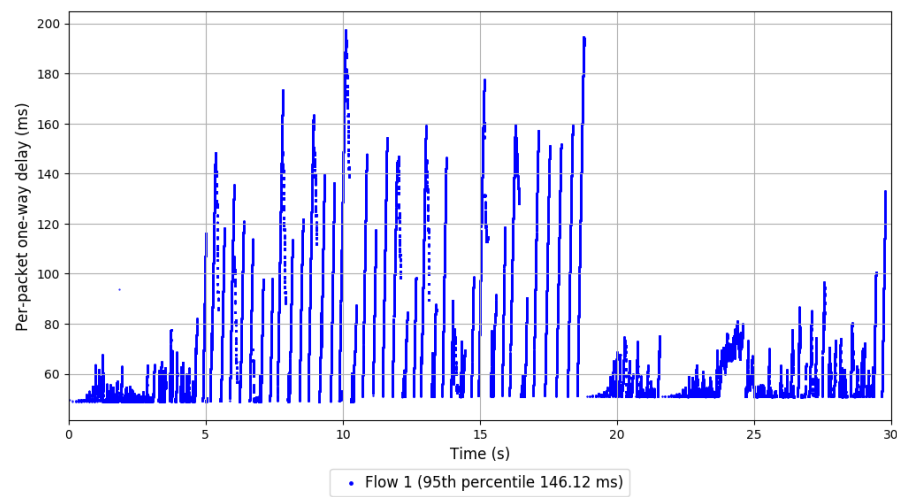
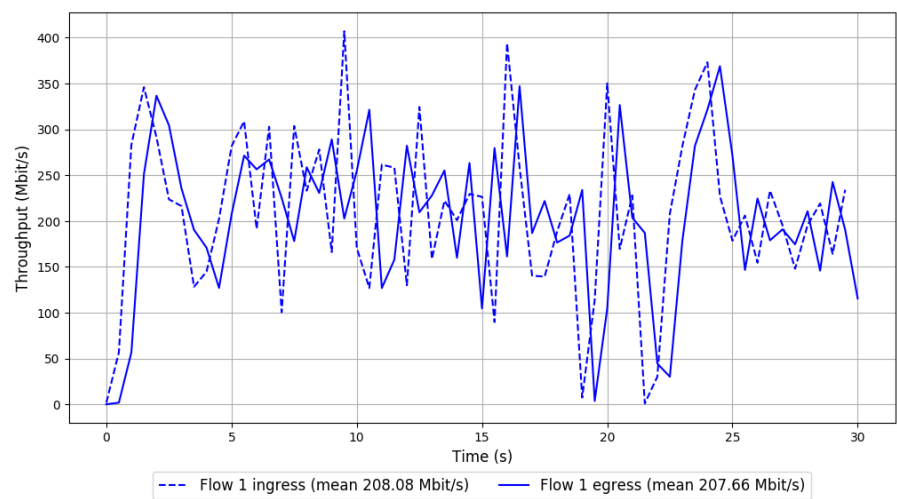


Run 10: Statistics of Verus

Start at: 2018-06-20 19:51:08
End at: 2018-06-20 19:51:38
Local clock offset: 0.007 ms
Remote clock offset: -0.152 ms

Below is generated by plot.py at 2018-06-20 21:17:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 207.66 Mbit/s
95th percentile per-packet one-way delay: 146.117 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 207.66 Mbit/s
95th percentile per-packet one-way delay: 146.117 ms
Loss rate: 0.96%

Run 10: Report of Verus — Data Link

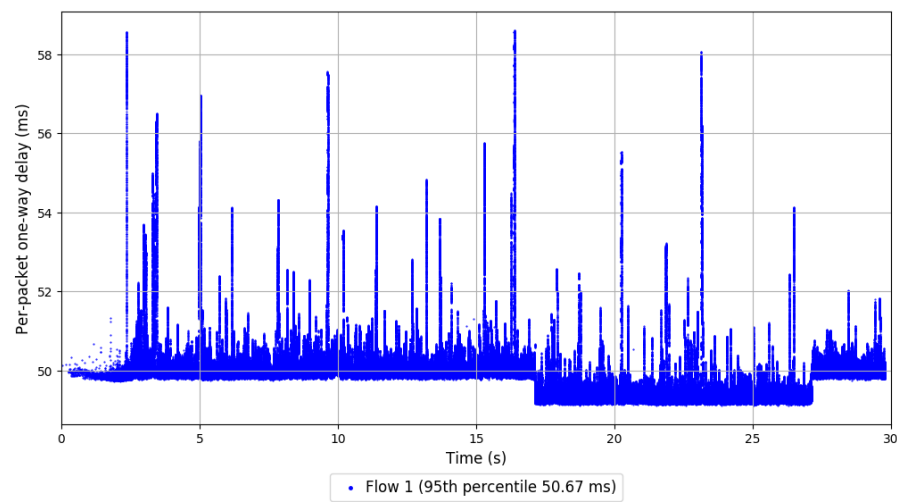
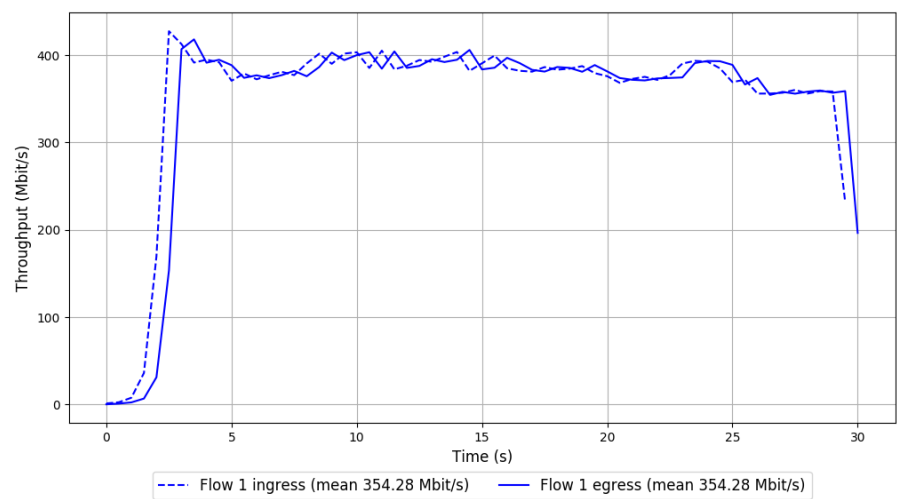


Run 1: Statistics of PCC-Vivace

Start at: 2018-06-20 16:44:22
End at: 2018-06-20 16:44:52
Local clock offset: -0.218 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2018-06-20 21:20:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 354.28 Mbit/s
95th percentile per-packet one-way delay: 50.669 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 354.28 Mbit/s
95th percentile per-packet one-way delay: 50.669 ms
Loss rate: 0.34%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-06-20 17:04:24

End at: 2018-06-20 17:04:54

Local clock offset: 0.312 ms

Remote clock offset: -0.098 ms

Below is generated by plot.py at 2018-06-20 21:20:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 278.87 Mbit/s

95th percentile per-packet one-way delay: 52.224 ms

Loss rate: 0.62%

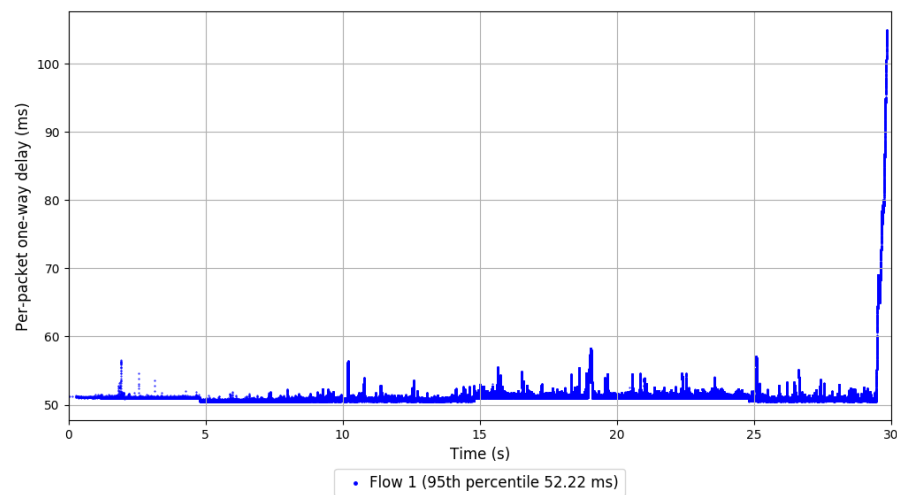
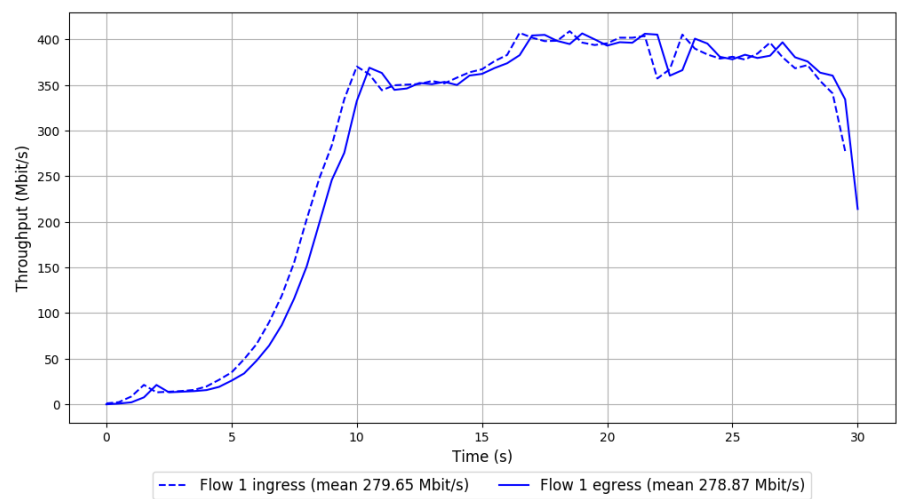
-- Flow 1:

Average throughput: 278.87 Mbit/s

95th percentile per-packet one-way delay: 52.224 ms

Loss rate: 0.62%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-06-20 17:24:18

End at: 2018-06-20 17:24:48

Local clock offset: -0.047 ms

Remote clock offset: -0.094 ms

Below is generated by plot.py at 2018-06-20 21:20:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 304.66 Mbit/s

95th percentile per-packet one-way delay: 50.967 ms

Loss rate: 0.50%

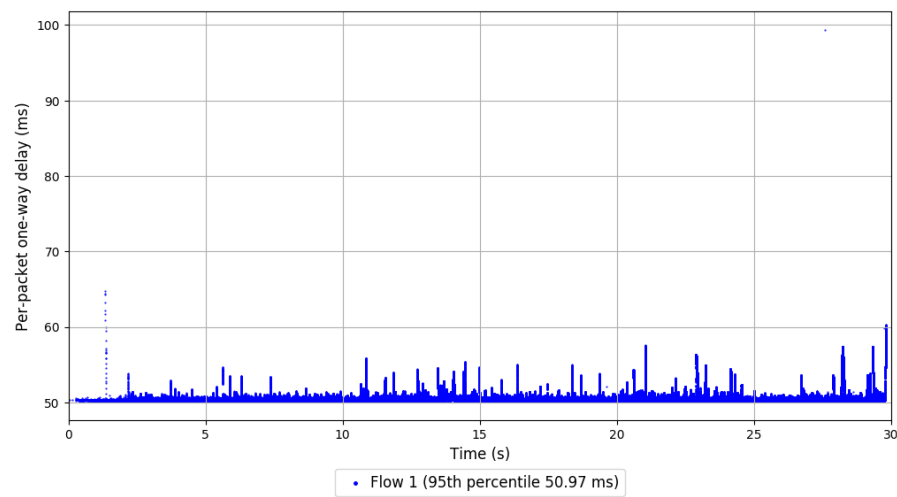
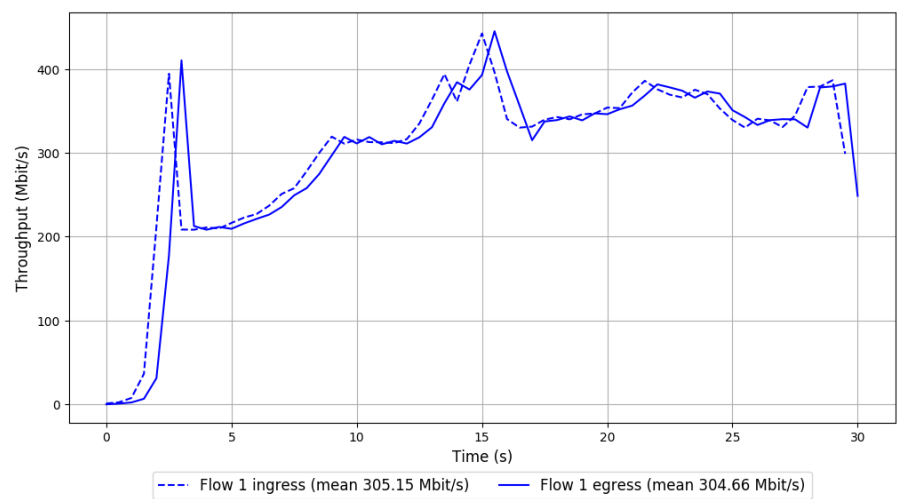
-- Flow 1:

Average throughput: 304.66 Mbit/s

95th percentile per-packet one-way delay: 50.967 ms

Loss rate: 0.50%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-06-20 17:44:31

End at: 2018-06-20 17:45:01

Local clock offset: -0.321 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2018-06-20 21:20:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 353.32 Mbit/s

95th percentile per-packet one-way delay: 54.100 ms

Loss rate: 0.32%

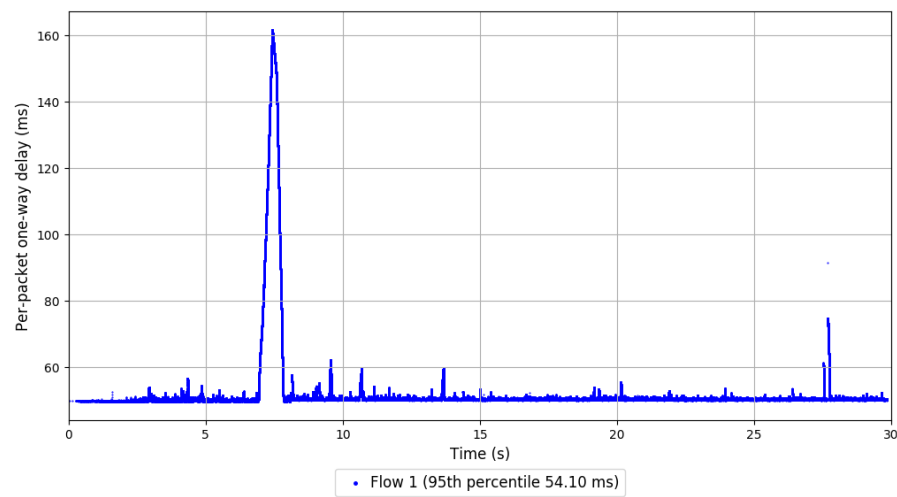
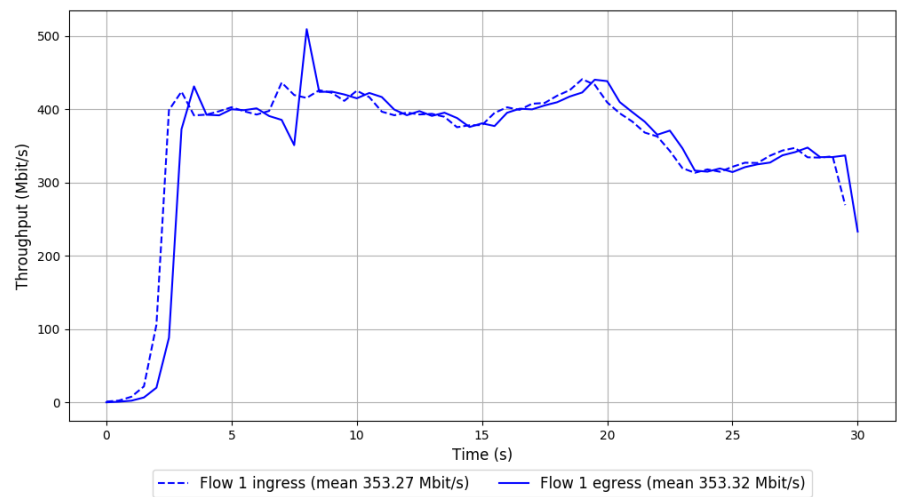
-- Flow 1:

Average throughput: 353.32 Mbit/s

95th percentile per-packet one-way delay: 54.100 ms

Loss rate: 0.32%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-06-20 18:04:33

End at: 2018-06-20 18:05:03

Local clock offset: 0.031 ms

Remote clock offset: -0.013 ms

Below is generated by plot.py at 2018-06-20 21:20:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 308.18 Mbit/s

95th percentile per-packet one-way delay: 51.217 ms

Loss rate: 0.38%

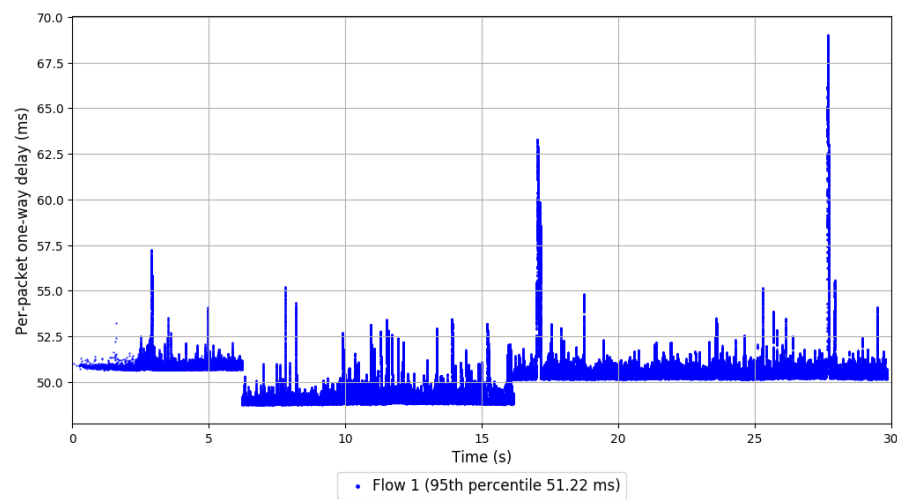
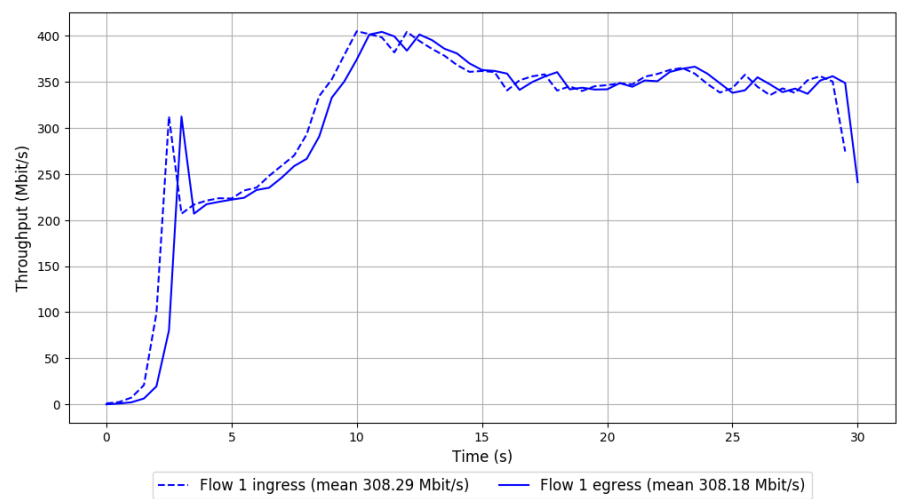
-- Flow 1:

Average throughput: 308.18 Mbit/s

95th percentile per-packet one-way delay: 51.217 ms

Loss rate: 0.38%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-06-20 18:24:36

End at: 2018-06-20 18:25:06

Local clock offset: 0.382 ms

Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-06-20 21:21:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 337.95 Mbit/s

95th percentile per-packet one-way delay: 51.896 ms

Loss rate: 0.35%

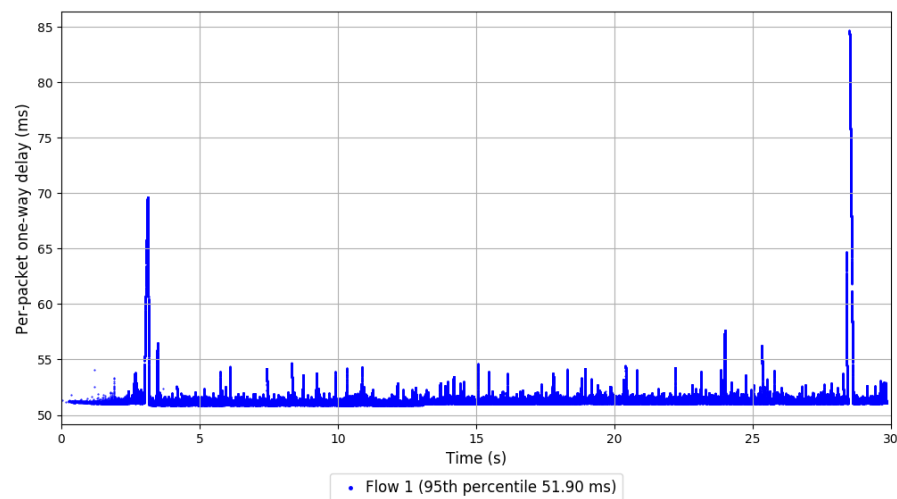
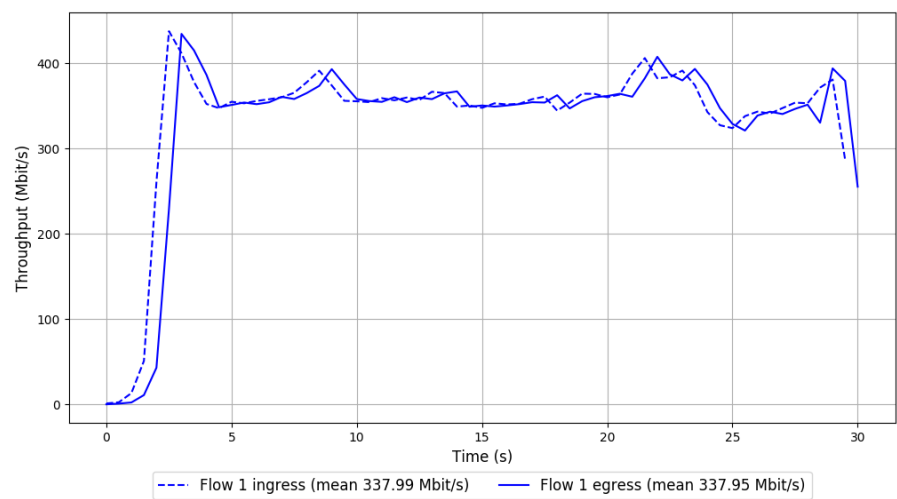
-- Flow 1:

Average throughput: 337.95 Mbit/s

95th percentile per-packet one-way delay: 51.896 ms

Loss rate: 0.35%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-06-20 18:44:27

End at: 2018-06-20 18:44:57

Local clock offset: -0.001 ms

Remote clock offset: 0.262 ms

Below is generated by plot.py at 2018-06-20 21:22:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 330.84 Mbit/s

95th percentile per-packet one-way delay: 51.602 ms

Loss rate: 0.34%

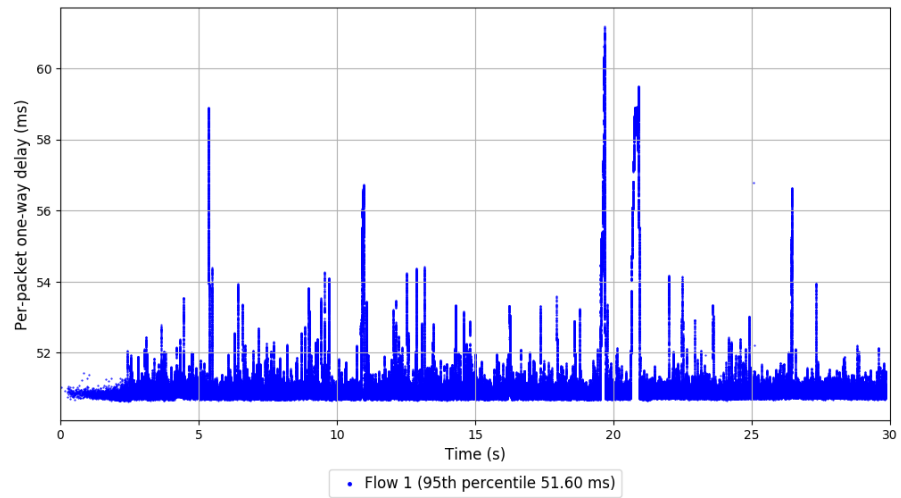
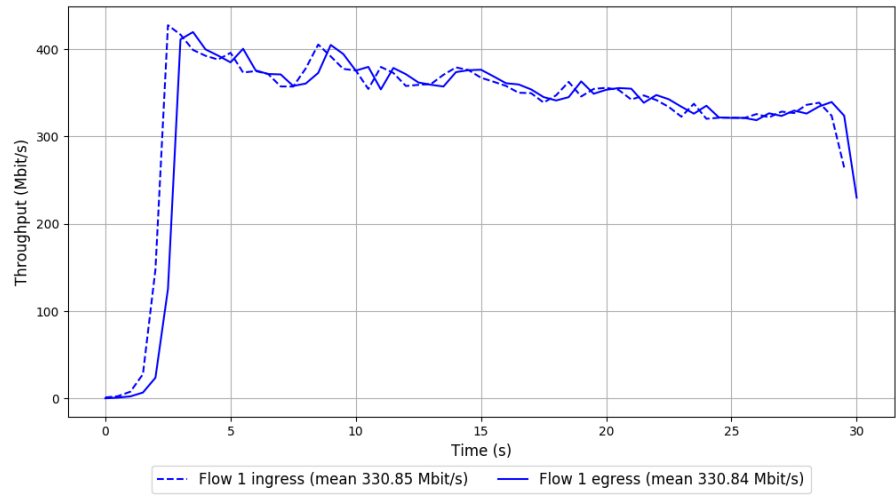
-- Flow 1:

Average throughput: 330.84 Mbit/s

95th percentile per-packet one-way delay: 51.602 ms

Loss rate: 0.34%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-06-20 19:04:27

End at: 2018-06-20 19:04:57

Local clock offset: -0.011 ms

Remote clock offset: 0.406 ms

Below is generated by plot.py at 2018-06-20 21:22:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 339.66 Mbit/s

95th percentile per-packet one-way delay: 51.586 ms

Loss rate: 0.42%

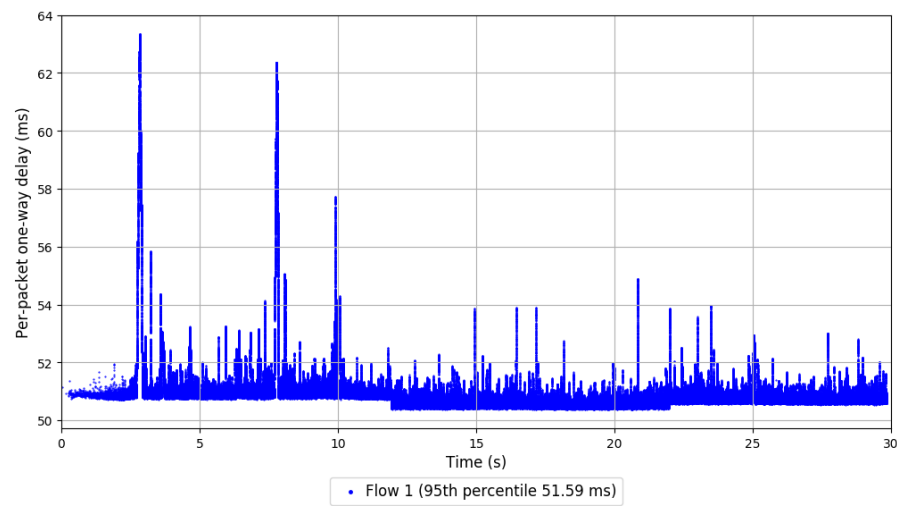
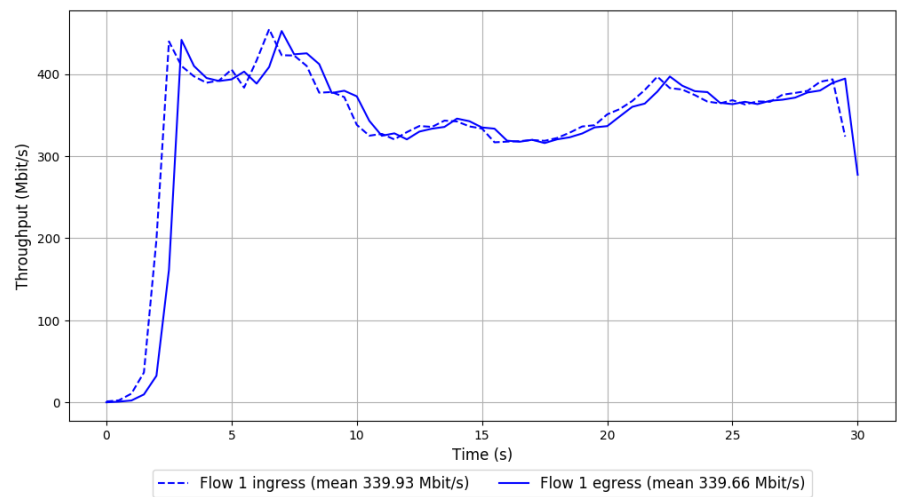
-- Flow 1:

Average throughput: 339.66 Mbit/s

95th percentile per-packet one-way delay: 51.586 ms

Loss rate: 0.42%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-06-20 19:24:26

End at: 2018-06-20 19:24:56

Local clock offset: 0.394 ms

Remote clock offset: 0.055 ms

Below is generated by plot.py at 2018-06-20 21:22:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 281.57 Mbit/s

95th percentile per-packet one-way delay: 53.792 ms

Loss rate: 0.40%

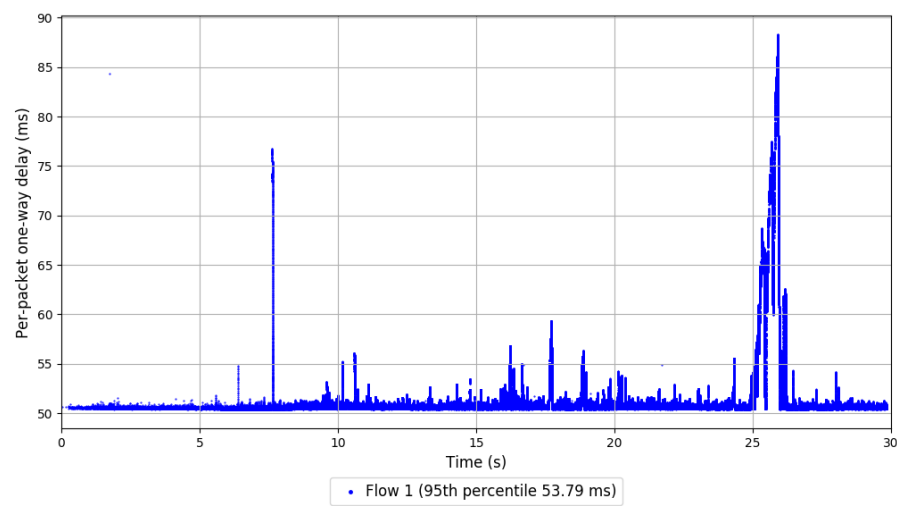
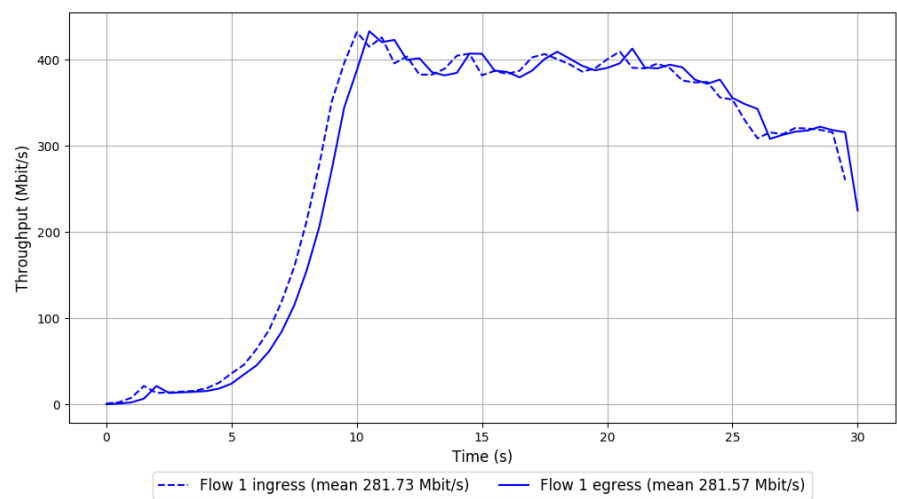
-- Flow 1:

Average throughput: 281.57 Mbit/s

95th percentile per-packet one-way delay: 53.792 ms

Loss rate: 0.40%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-06-20 19:44:21

End at: 2018-06-20 19:44:51

Local clock offset: 0.4 ms

Remote clock offset: -0.136 ms

Below is generated by plot.py at 2018-06-20 21:22:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.16 Mbit/s

95th percentile per-packet one-way delay: 51.332 ms

Loss rate: 0.47%

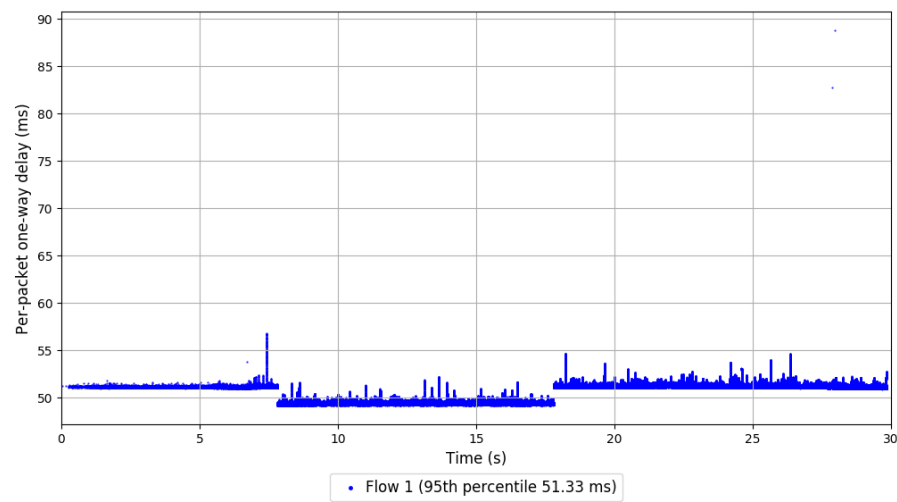
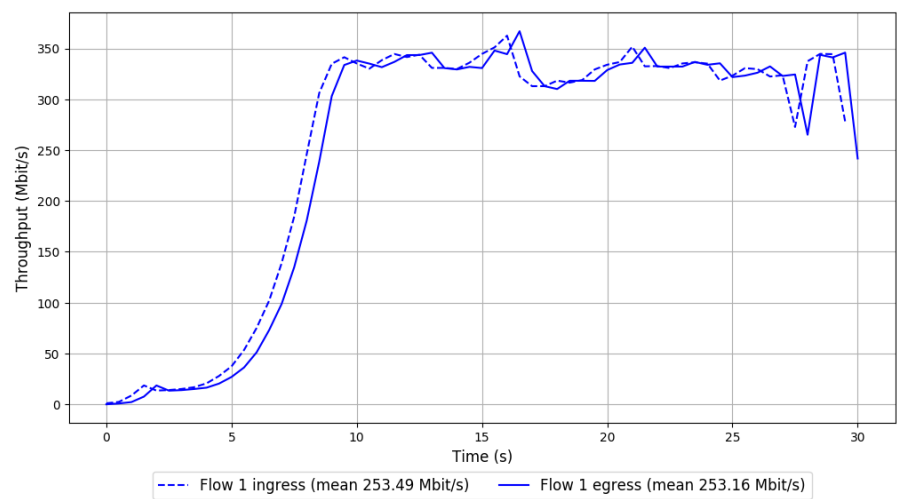
-- Flow 1:

Average throughput: 253.16 Mbit/s

95th percentile per-packet one-way delay: 51.332 ms

Loss rate: 0.47%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-06-20 16:52:40

End at: 2018-06-20 16:53:10

Local clock offset: 0.026 ms

Remote clock offset: -0.08 ms

Below is generated by plot.py at 2018-06-20 21:22:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.63 Mbit/s

95th percentile per-packet one-way delay: 50.765 ms

Loss rate: 0.47%

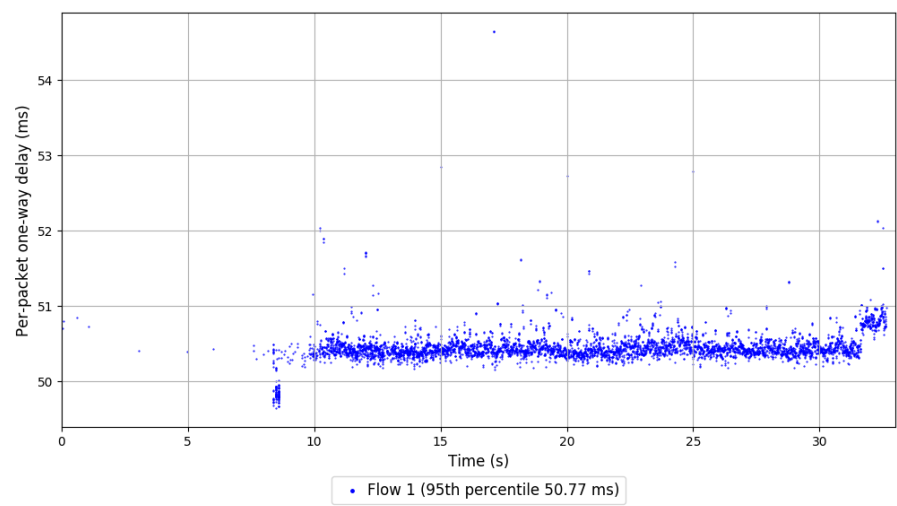
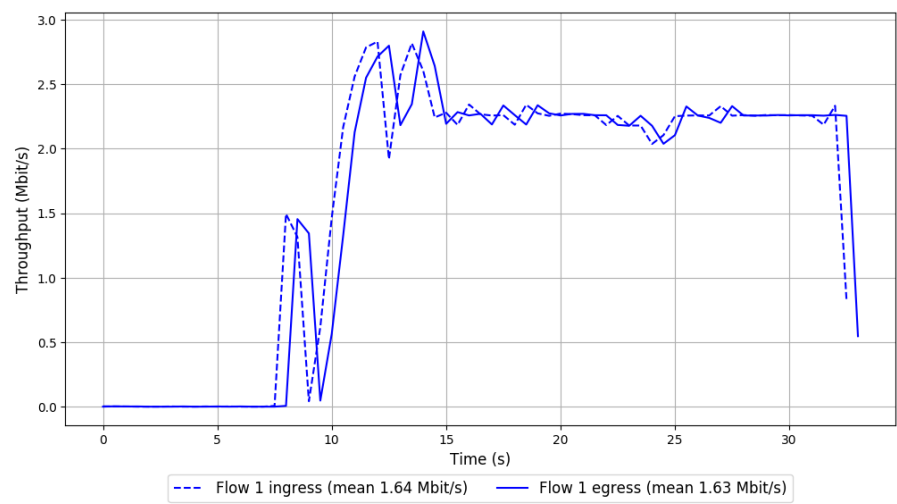
-- Flow 1:

Average throughput: 1.63 Mbit/s

95th percentile per-packet one-way delay: 50.765 ms

Loss rate: 0.47%

Run 1: Report of WebRTC media — Data Link

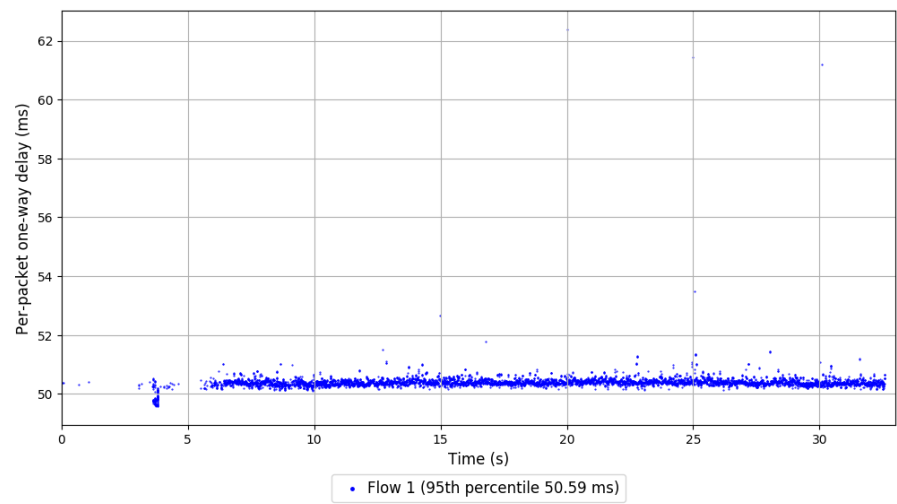
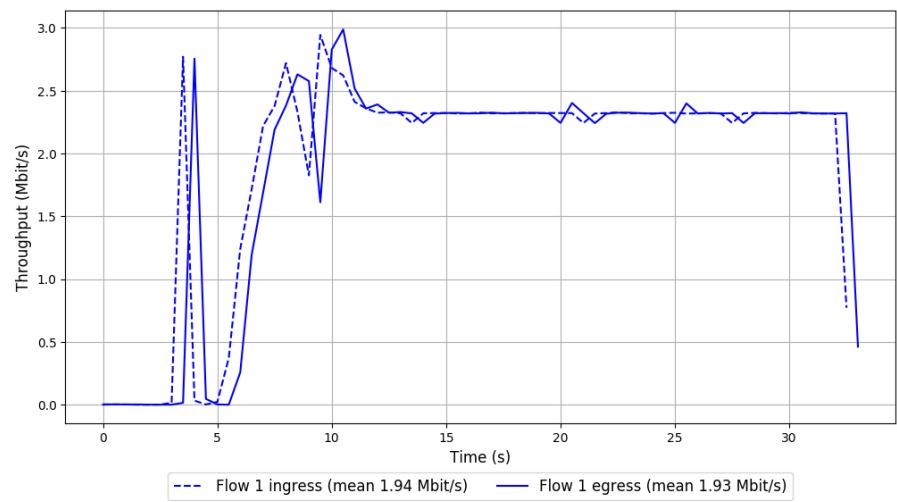


Run 2: Statistics of WebRTC media

Start at: 2018-06-20 17:12:29
End at: 2018-06-20 17:12:59
Local clock offset: -0.081 ms
Remote clock offset: -0.087 ms

Below is generated by plot.py at 2018-06-20 21:22:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 50.588 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 50.588 ms
Loss rate: 0.43%

Run 2: Report of WebRTC media — Data Link

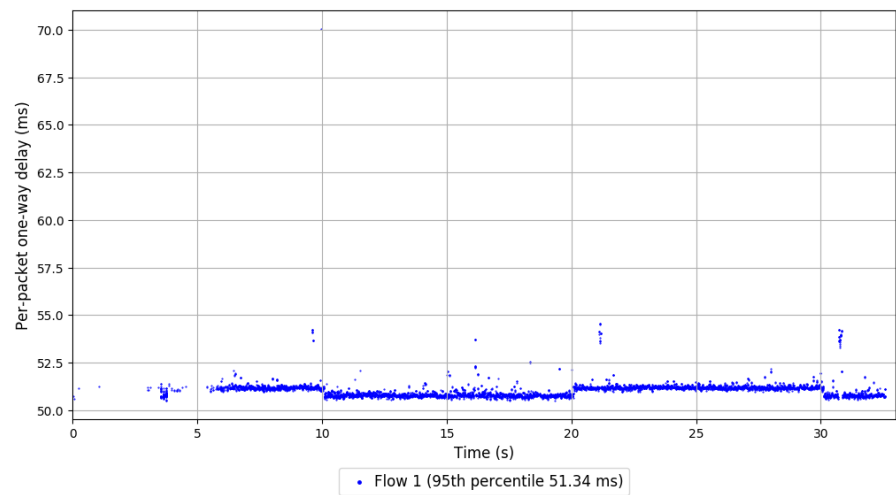
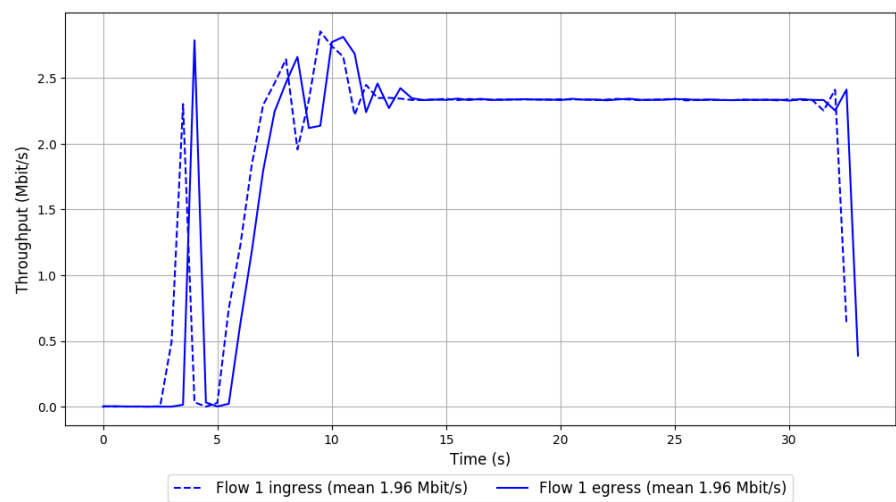


Run 3: Statistics of WebRTC media

Start at: 2018-06-20 17:32:31
End at: 2018-06-20 17:33:01
Local clock offset: 0.383 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-06-20 21:22:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 51.338 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 51.338 ms
Loss rate: 0.36%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-06-20 17:52:32

End at: 2018-06-20 17:53:02

Local clock offset: -0.27 ms

Remote clock offset: 0.034 ms

Below is generated by plot.py at 2018-06-20 21:22:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 50.155 ms

Loss rate: 0.38%

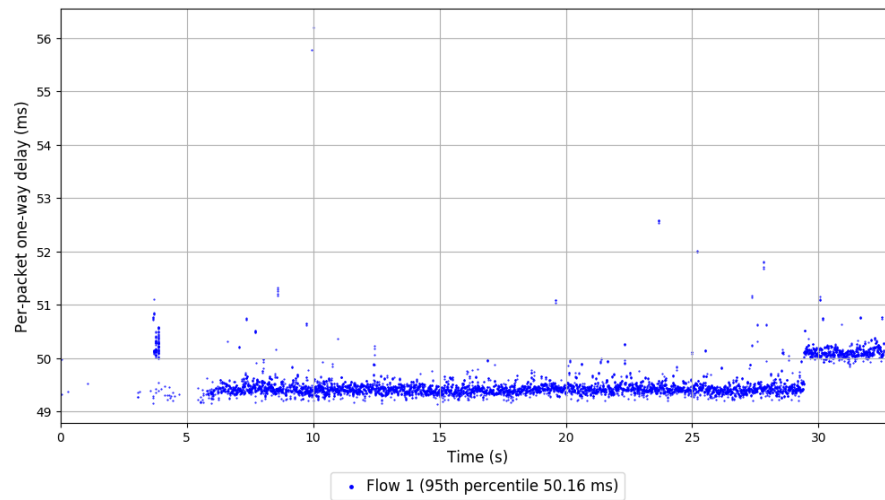
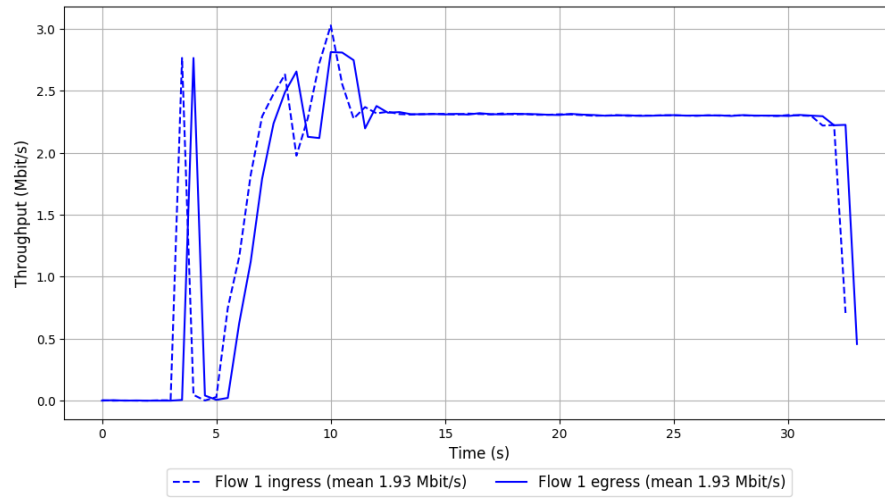
-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 50.155 ms

Loss rate: 0.38%

Run 4: Report of WebRTC media — Data Link

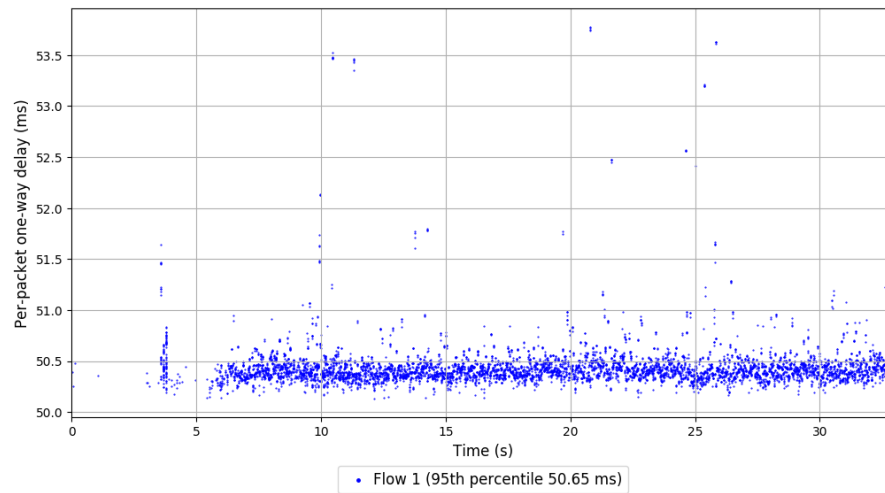
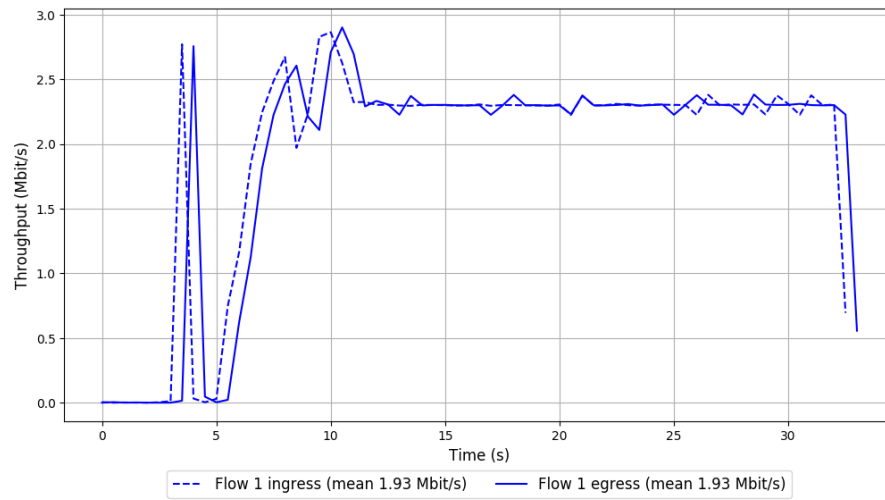


Run 5: Statistics of WebRTC media

Start at: 2018-06-20 18:12:43
End at: 2018-06-20 18:13:13
Local clock offset: 0.023 ms
Remote clock offset: -0.005 ms

Below is generated by plot.py at 2018-06-20 21:22:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 50.654 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 50.654 ms
Loss rate: 0.35%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-06-20 18:32:39

End at: 2018-06-20 18:33:09

Local clock offset: -0.007 ms

Remote clock offset: 0.127 ms

Below is generated by plot.py at 2018-06-20 21:22:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 50.468 ms

Loss rate: 0.37%

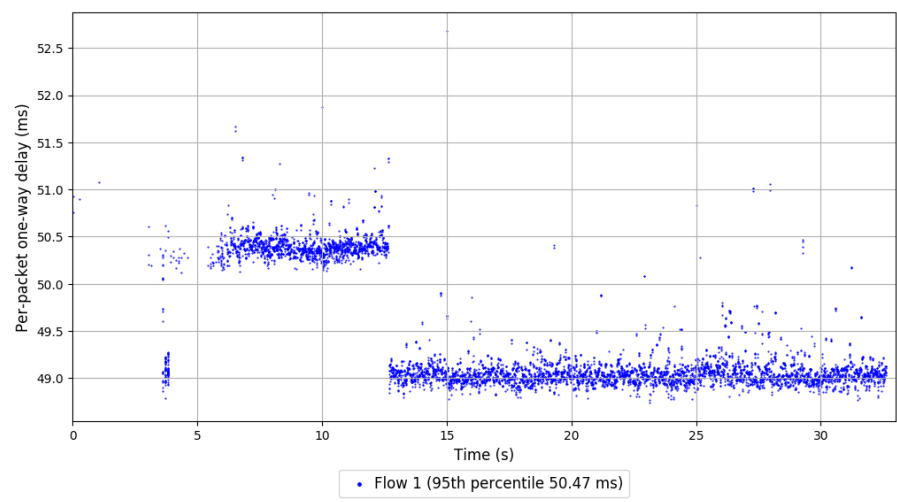
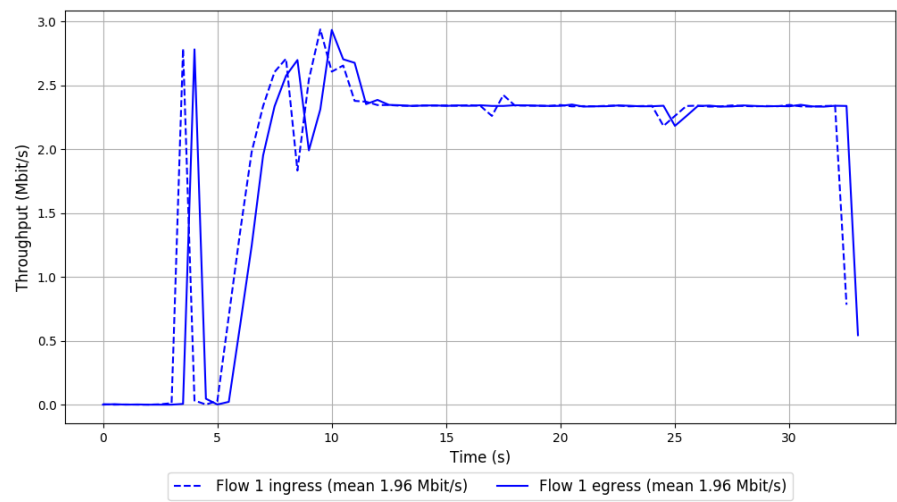
-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 50.468 ms

Loss rate: 0.37%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-06-20 18:52:38

End at: 2018-06-20 18:53:08

Local clock offset: 0.036 ms

Remote clock offset: 0.27 ms

Below is generated by plot.py at 2018-06-20 21:22:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 51.256 ms

Loss rate: 0.35%

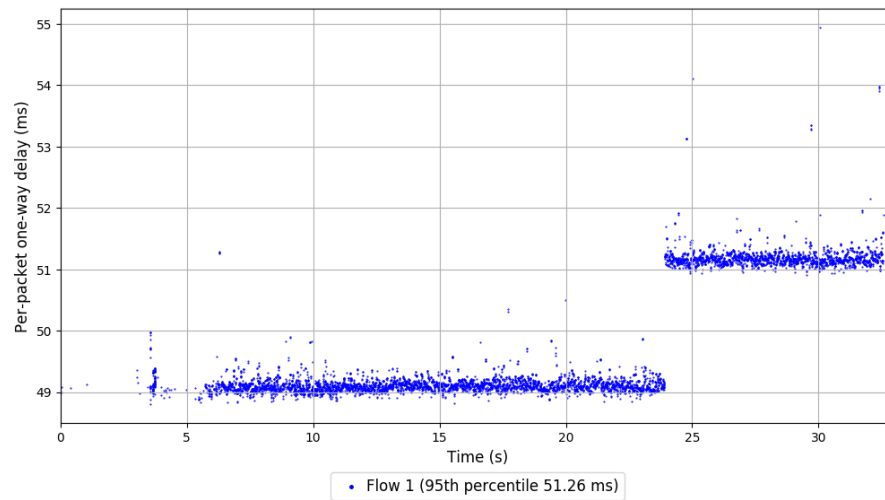
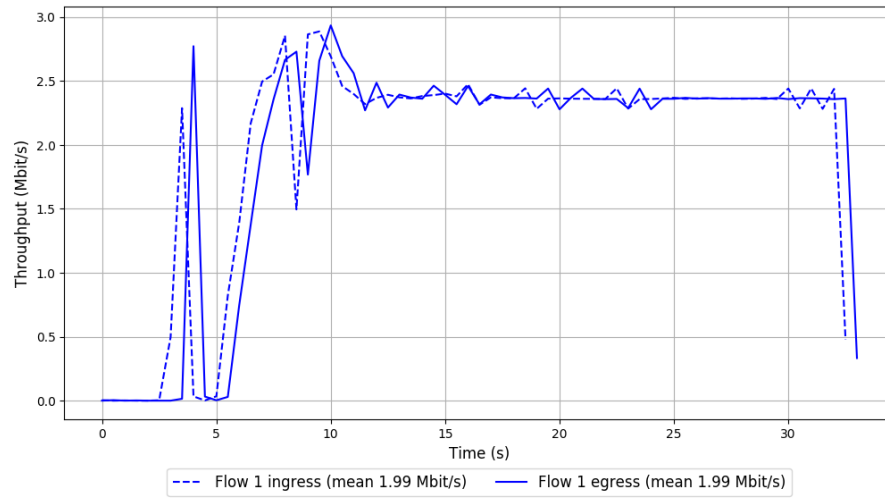
-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 51.256 ms

Loss rate: 0.35%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-06-20 19:12:30

End at: 2018-06-20 19:13:00

Local clock offset: 0.035 ms

Remote clock offset: 0.099 ms

Below is generated by plot.py at 2018-06-20 21:22:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 51.087 ms

Loss rate: 0.37%

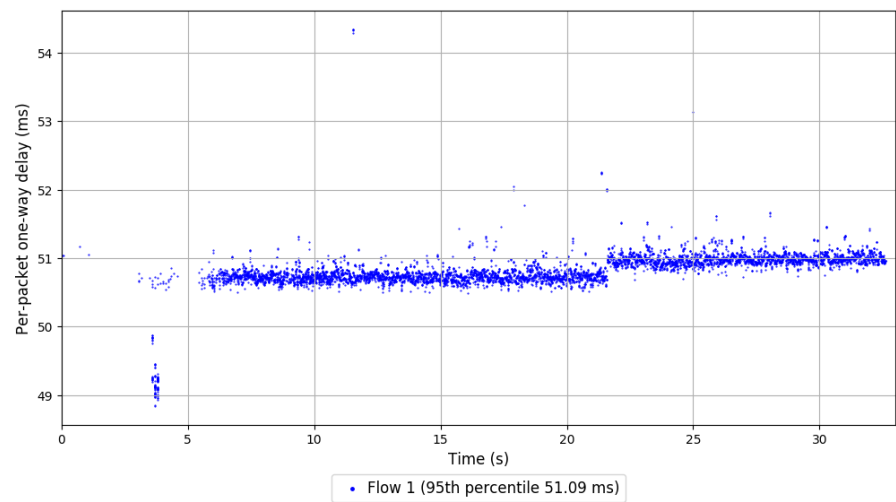
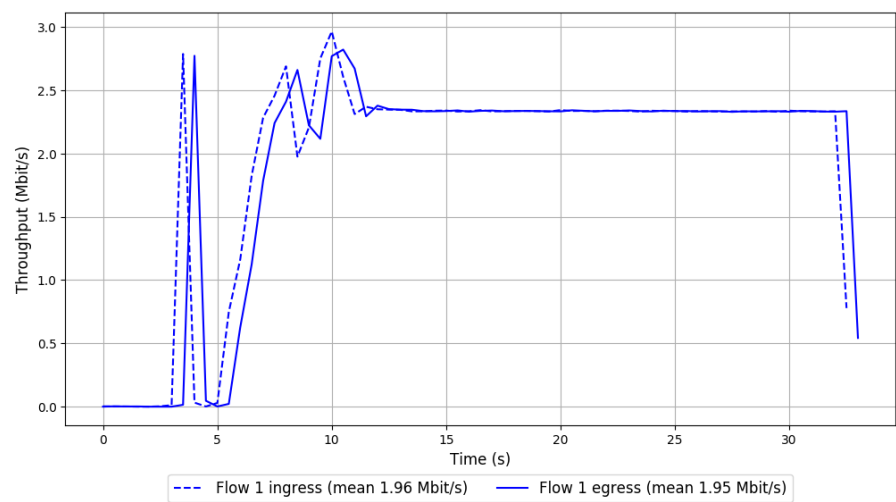
-- Flow 1:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 51.087 ms

Loss rate: 0.37%

Run 8: Report of WebRTC media — Data Link

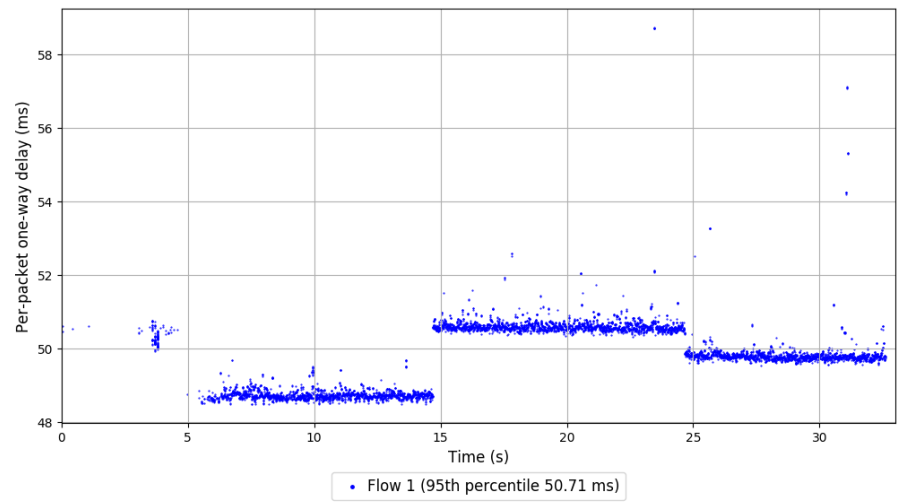
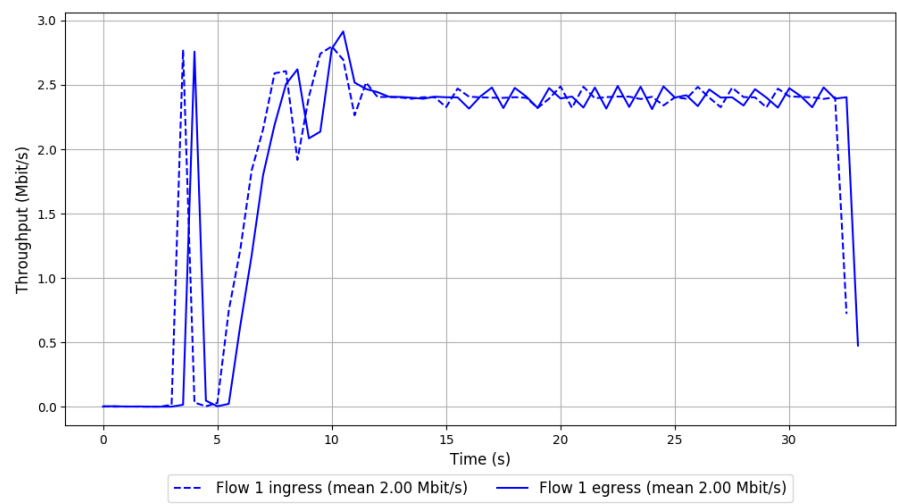


Run 9: Statistics of WebRTC media

Start at: 2018-06-20 19:32:27
End at: 2018-06-20 19:32:57
Local clock offset: -0.315 ms
Remote clock offset: -0.113 ms

Below is generated by plot.py at 2018-06-20 21:22:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 50.711 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 50.711 ms
Loss rate: 0.37%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-20 19:52:27

End at: 2018-06-20 19:52:57

Local clock offset: 0.013 ms

Remote clock offset: -0.093 ms

Below is generated by plot.py at 2018-06-20 21:22:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 51.166 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 51.166 ms

Loss rate: 0.37%

Run 10: Report of WebRTC media — Data Link

