

Pantheon Report

Generated at 2018-06-05 23:00:57 (UTC).

Data path: India Ethernet (*remote*) → AWS India 1 Ethernet (*local*).

Repeated the test of 16 congestion control schemes 10 times.

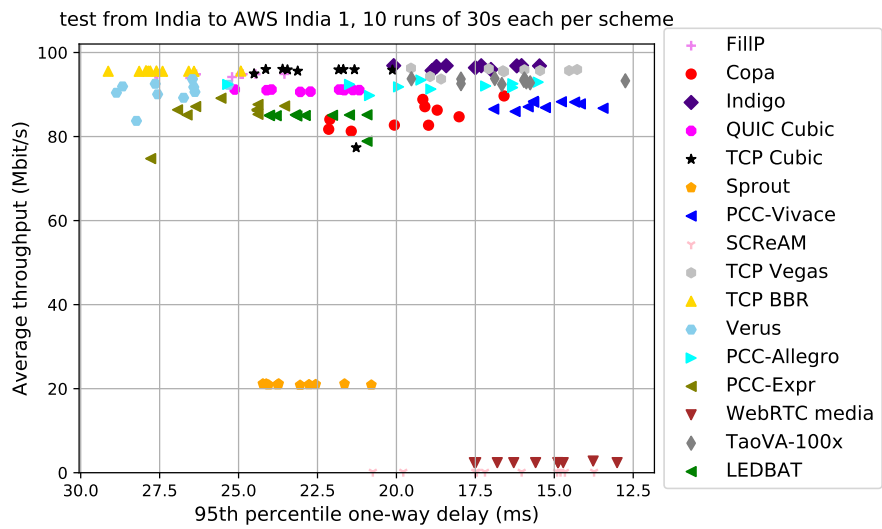
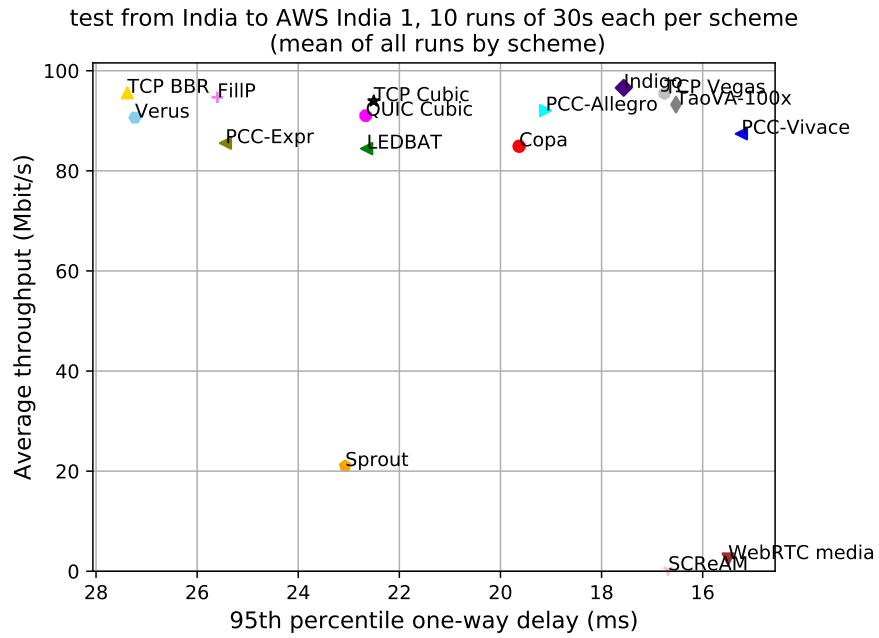
Each test lasted for 30 seconds running 1 flow.

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

NTP offsets were measured against nets.org.sg and have been applied to correct the timestamps in logs.

Git summary:

```
branch: master @ 227fdf9a3757f17b88537cceed5743a33037a3d2
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 @ c838669682f0c19f6baf92afc9a596a406d48c1f
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webRTC @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	95.58	27.38	2.85
Copa	10	84.91	19.63	0.09
TCP Cubic	10	93.94	22.51	0.11
FillP	10	94.69	25.60	0.12
Indigo	10	96.58	17.56	0.09
LEDBAT	10	84.44	22.65	0.10
PCC-Allegro	10	92.04	19.11	0.09
PCC-Expr	10	85.53	25.44	0.12
QUIC Cubic	10	91.03	22.67	0.12
SCReAM	10	0.21	16.68	0.12
Sprout	10	21.03	23.07	0.12
TaoVA-100x	10	93.23	16.53	0.08
TCP Vegas	10	95.47	16.76	0.09
Verus	10	90.63	27.23	0.25
PCC-Vivace	10	87.40	15.23	0.09
WebRTC media	10	2.44	15.50	0.08

Run 1: Statistics of TCP BBR

Start at: 2018-06-05 19:37:34

End at: 2018-06-05 19:38:04

Local clock offset: 1.352 ms

Remote clock offset: -8.481 ms

Below is generated by plot.py at 2018-06-05 22:40:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.55 Mbit/s

95th percentile per-packet one-way delay: 29.128 ms

Loss rate: 2.67%

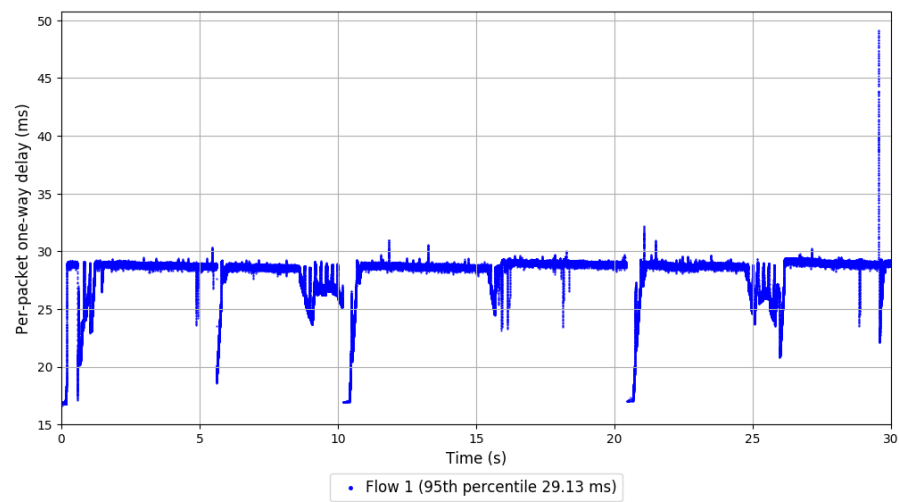
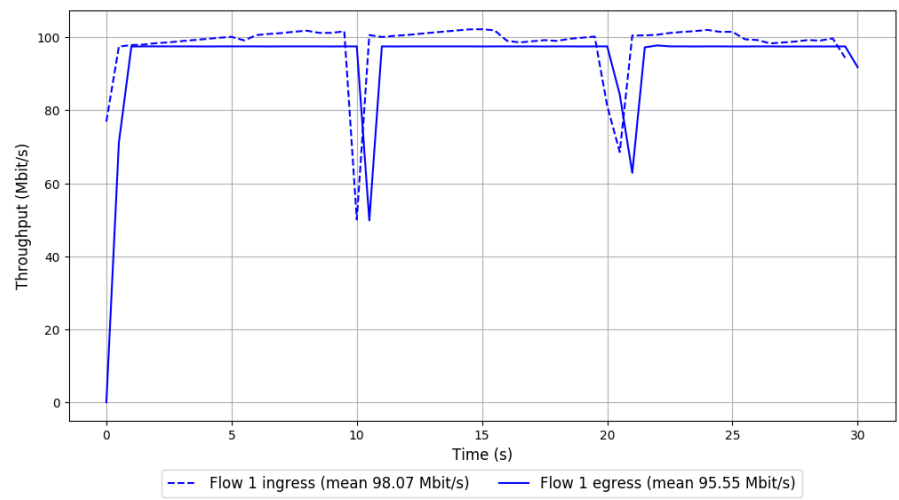
-- Flow 1:

Average throughput: 95.55 Mbit/s

95th percentile per-packet one-way delay: 29.128 ms

Loss rate: 2.67%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-06-05 19:56:14

End at: 2018-06-05 19:56:44

Local clock offset: 0.142 ms

Remote clock offset: -3.008 ms

Below is generated by plot.py at 2018-06-05 22:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.61 Mbit/s

95th percentile per-packet one-way delay: 27.797 ms

Loss rate: 2.92%

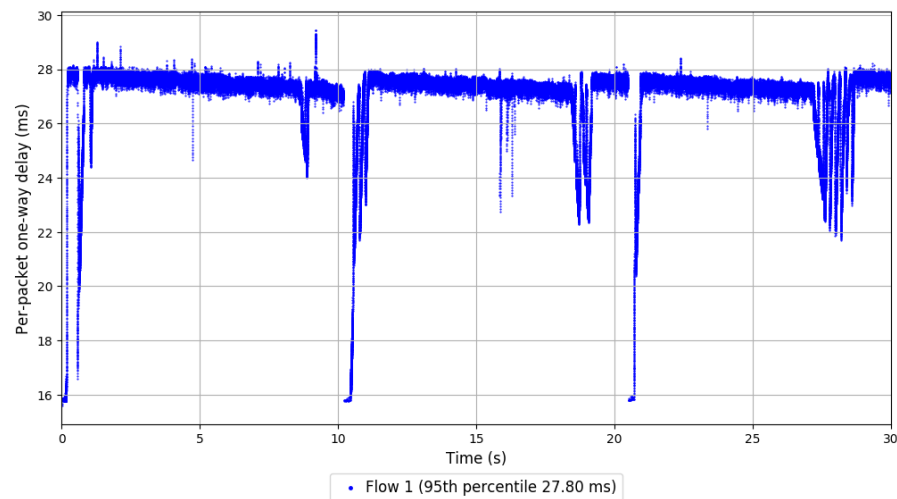
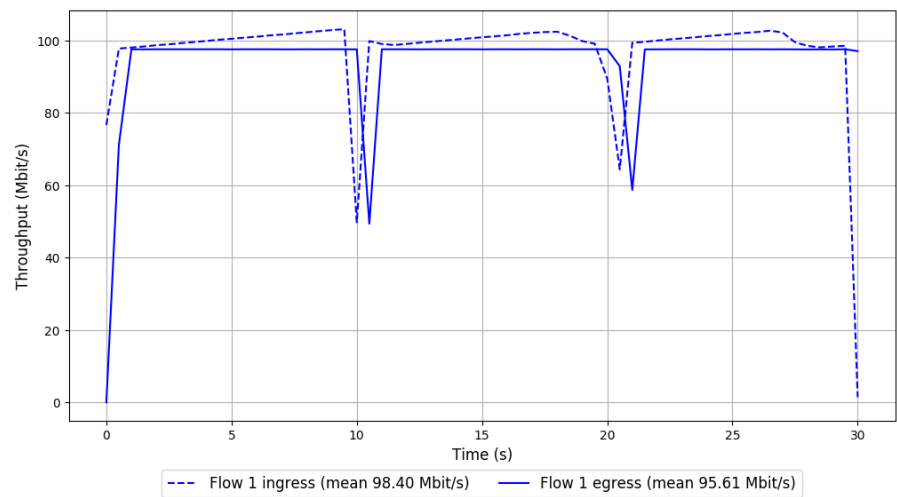
-- Flow 1:

Average throughput: 95.61 Mbit/s

95th percentile per-packet one-way delay: 27.797 ms

Loss rate: 2.92%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-06-05 20:14:41

End at: 2018-06-05 20:15:11

Local clock offset: -0.845 ms

Remote clock offset: -2.16 ms

Below is generated by plot.py at 2018-06-05 22:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.54 Mbit/s

95th percentile per-packet one-way delay: 28.147 ms

Loss rate: 2.71%

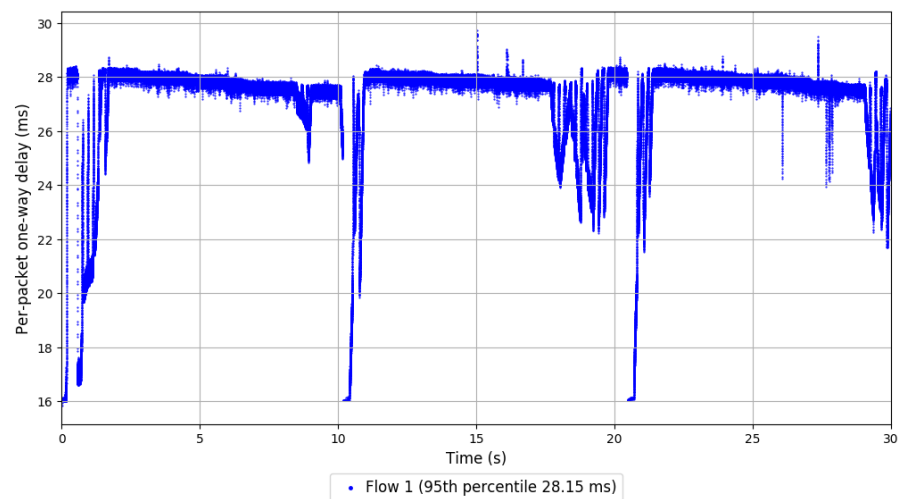
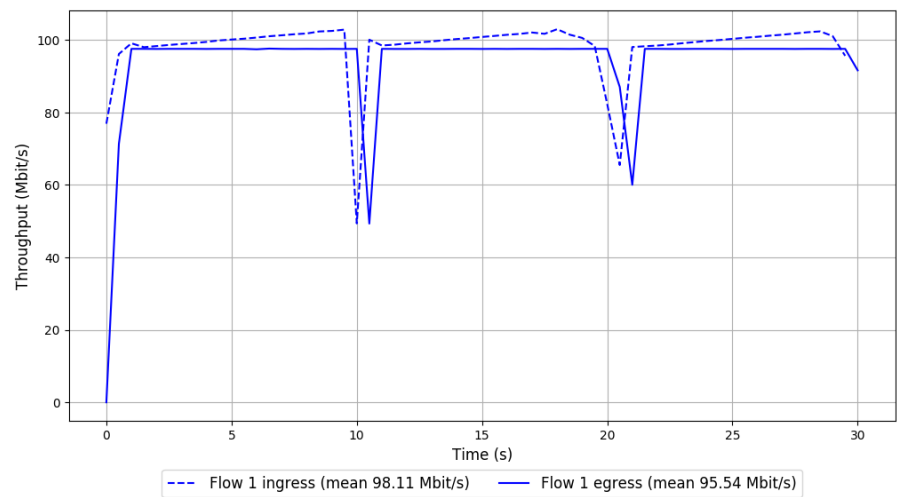
-- Flow 1:

Average throughput: 95.54 Mbit/s

95th percentile per-packet one-way delay: 28.147 ms

Loss rate: 2.71%

Run 3: Report of TCP BBR — Data Link

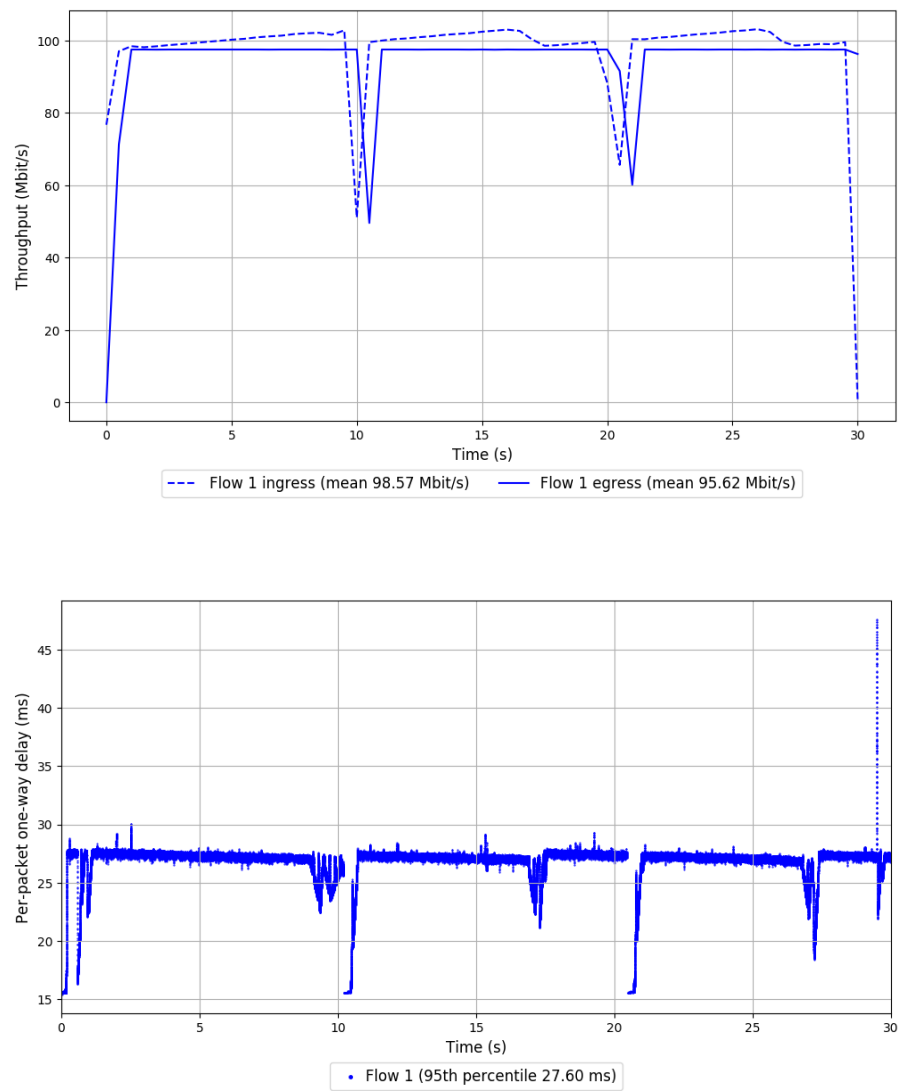


Run 4: Statistics of TCP BBR

Start at: 2018-06-05 20:33:19
End at: 2018-06-05 20:33:49
Local clock offset: -0.975 ms
Remote clock offset: -0.659 ms

Below is generated by plot.py at 2018-06-05 22:40:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 27.601 ms
Loss rate: 3.09%
-- Flow 1:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 27.601 ms
Loss rate: 3.09%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-06-05 20:52:09

End at: 2018-06-05 20:52:39

Local clock offset: -1.742 ms

Remote clock offset: 2.335 ms

Below is generated by plot.py at 2018-06-05 22:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.56 Mbit/s

95th percentile per-packet one-way delay: 26.580 ms

Loss rate: 2.99%

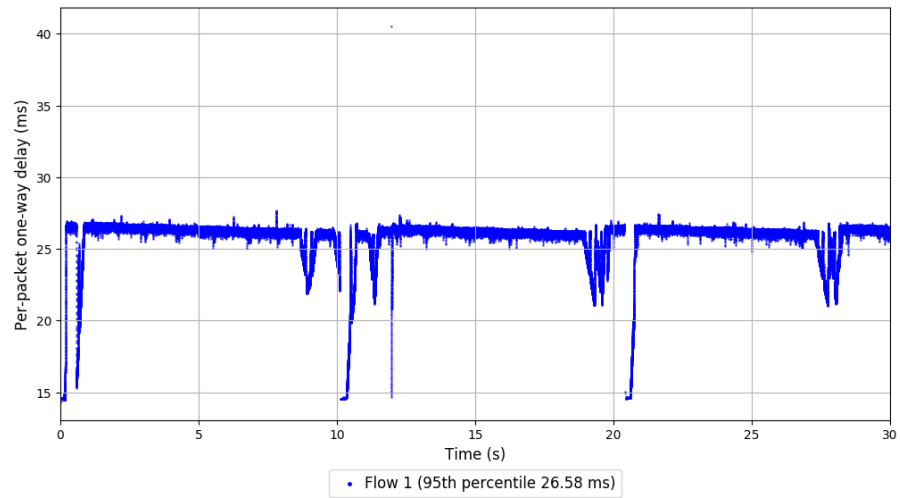
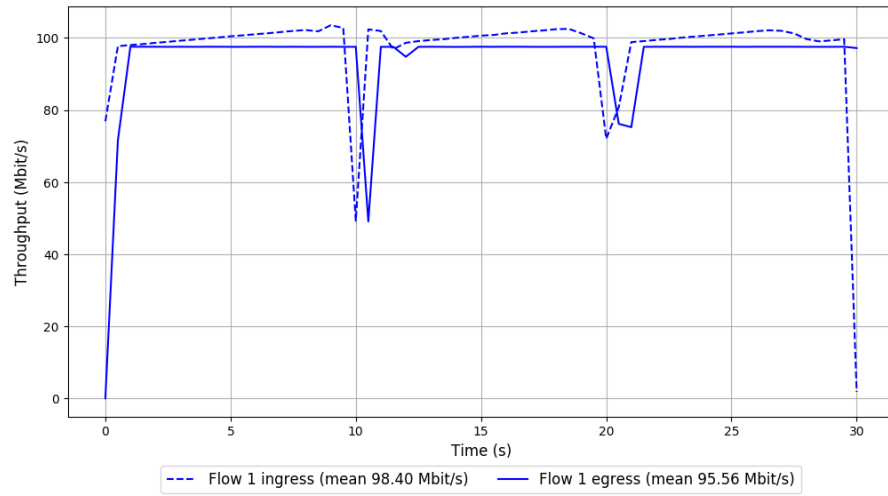
-- Flow 1:

Average throughput: 95.56 Mbit/s

95th percentile per-packet one-way delay: 26.580 ms

Loss rate: 2.99%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-06-05 21:10:30

End at: 2018-06-05 21:11:00

Local clock offset: -3.465 ms

Remote clock offset: 4.687 ms

Below is generated by plot.py at 2018-06-05 22:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.59 Mbit/s

95th percentile per-packet one-way delay: 24.930 ms

Loss rate: 2.95%

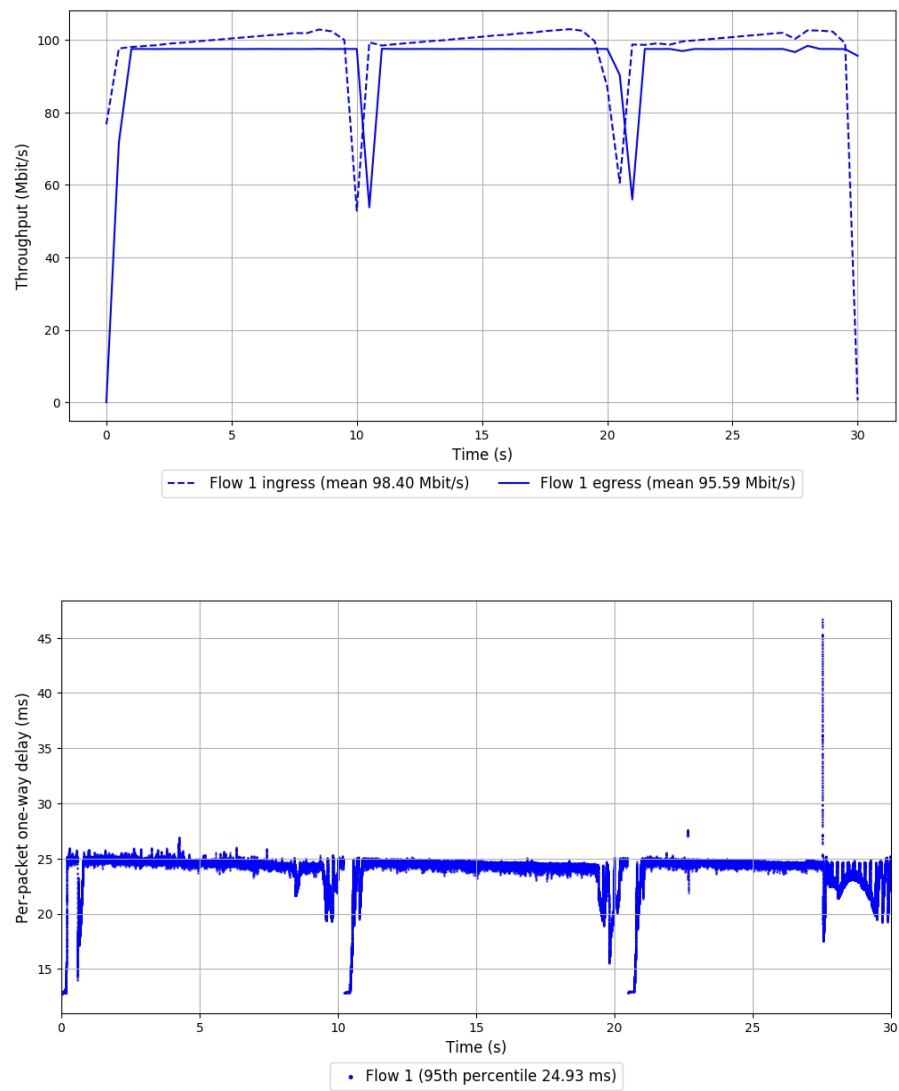
-- Flow 1:

Average throughput: 95.59 Mbit/s

95th percentile per-packet one-way delay: 24.930 ms

Loss rate: 2.95%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-06-05 21:29:03

End at: 2018-06-05 21:29:33

Local clock offset: -1.724 ms

Remote clock offset: 5.89 ms

Below is generated by plot.py at 2018-06-05 22:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.54 Mbit/s

95th percentile per-packet one-way delay: 27.407 ms

Loss rate: 3.08%

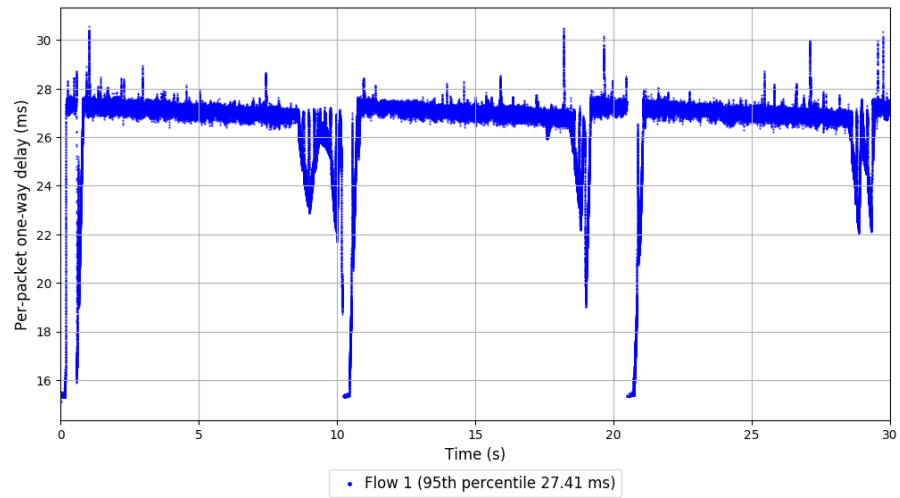
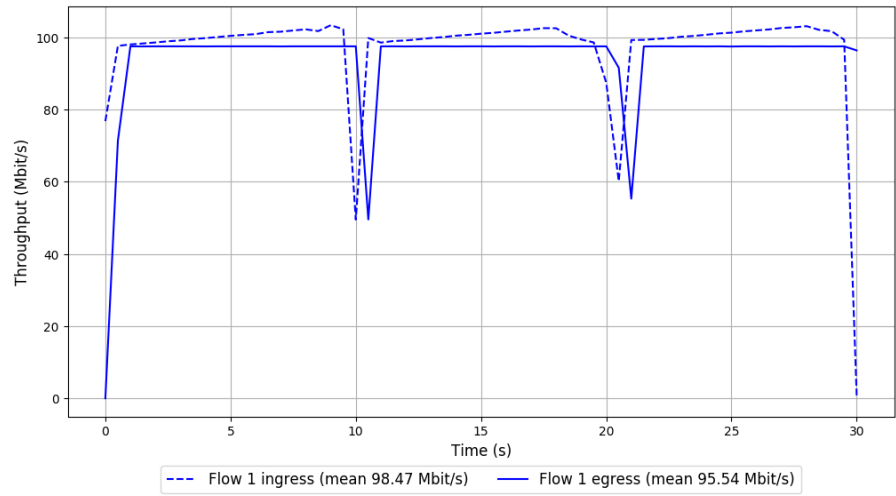
-- Flow 1:

Average throughput: 95.54 Mbit/s

95th percentile per-packet one-way delay: 27.407 ms

Loss rate: 3.08%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-06-05 21:47:47

End at: 2018-06-05 21:48:17

Local clock offset: -2.426 ms

Remote clock offset: 7.714 ms

Below is generated by plot.py at 2018-06-05 22:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.54 Mbit/s

95th percentile per-packet one-way delay: 26.412 ms

Loss rate: 2.66%

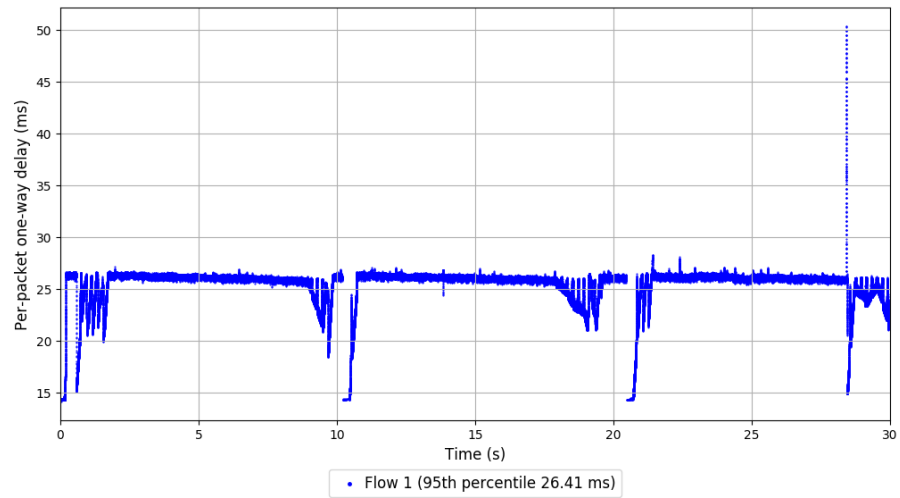
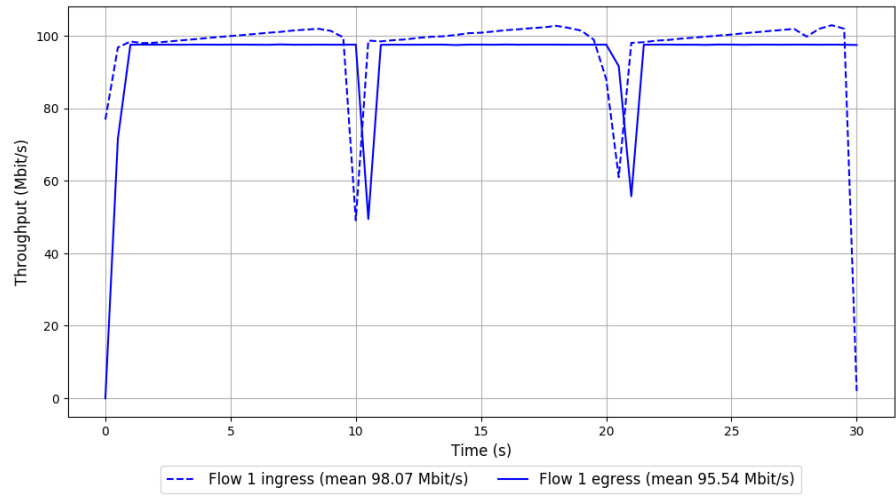
-- Flow 1:

Average throughput: 95.54 Mbit/s

95th percentile per-packet one-way delay: 26.412 ms

Loss rate: 2.66%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-06-05 22:06:10

End at: 2018-06-05 22:06:40

Local clock offset: -0.283 ms

Remote clock offset: 0.245 ms

Below is generated by plot.py at 2018-06-05 22:41:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.69 Mbit/s

95th percentile per-packet one-way delay: 27.932 ms

Loss rate: 2.85%

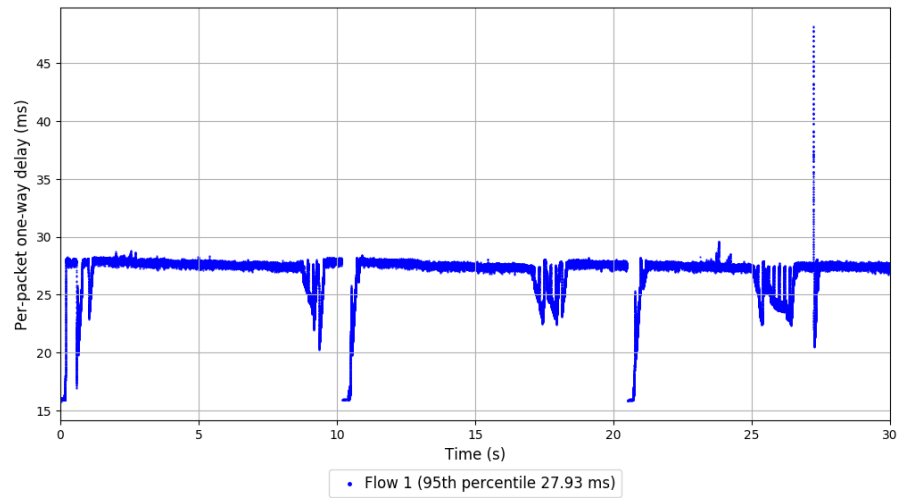
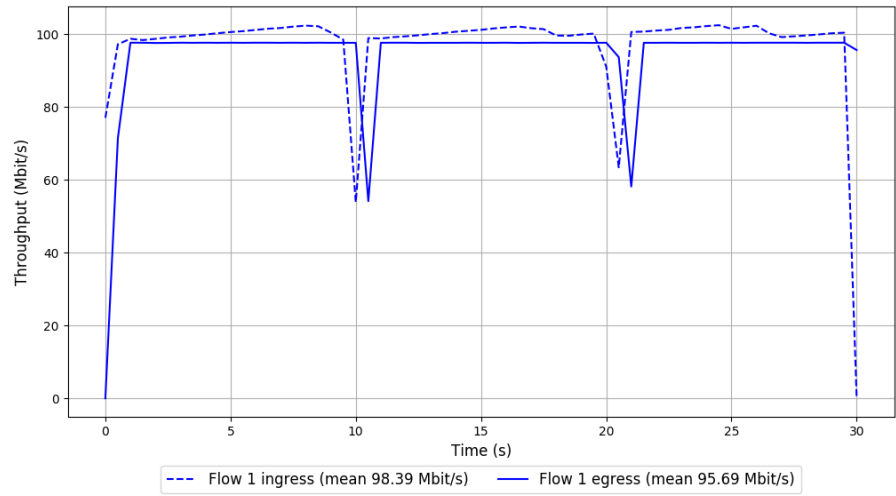
-- Flow 1:

Average throughput: 95.69 Mbit/s

95th percentile per-packet one-way delay: 27.932 ms

Loss rate: 2.85%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-06-05 22:24:36

End at: 2018-06-05 22:25:06

Local clock offset: 0.957 ms

Remote clock offset: -2.898 ms

Below is generated by plot.py at 2018-06-05 22:41:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.58 Mbit/s

95th percentile per-packet one-way delay: 27.861 ms

Loss rate: 2.55%

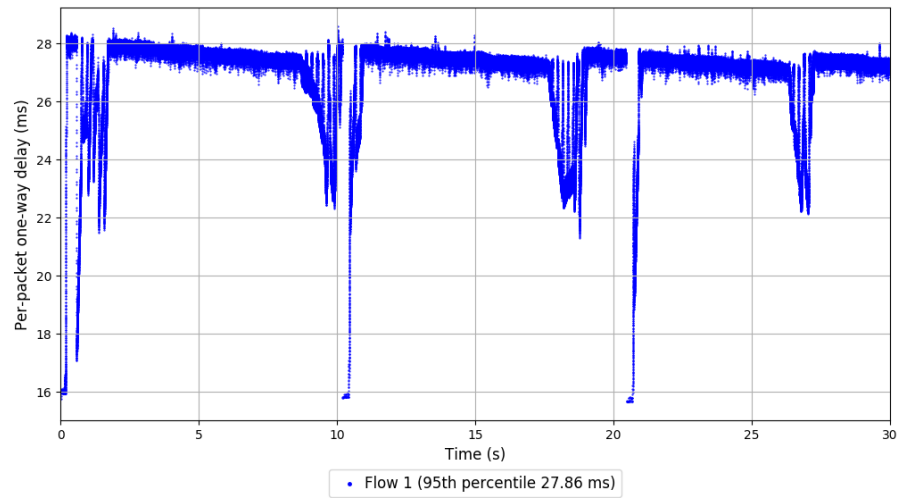
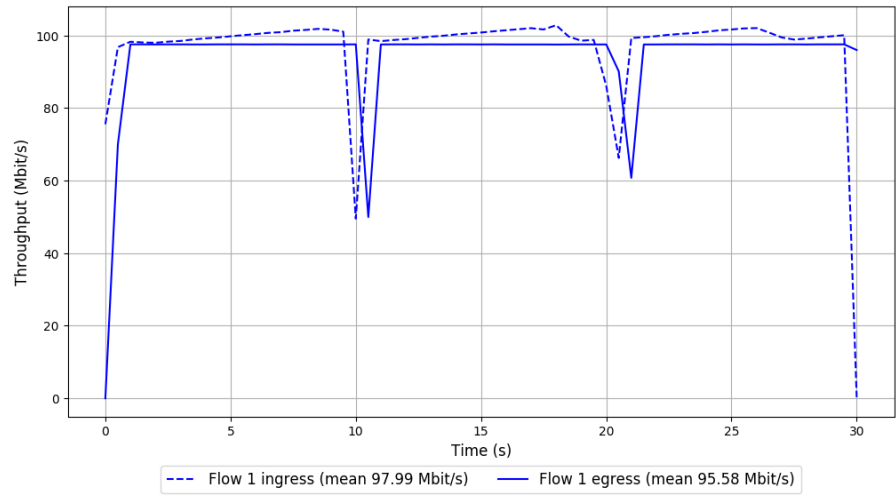
-- Flow 1:

Average throughput: 95.58 Mbit/s

95th percentile per-packet one-way delay: 27.861 ms

Loss rate: 2.55%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-06-05 19:38:49

End at: 2018-06-05 19:39:19

Local clock offset: -1.155 ms

Remote clock offset: -7.26 ms

Below is generated by plot.py at 2018-06-05 22:41:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.66 Mbit/s

95th percentile per-packet one-way delay: 16.591 ms

Loss rate: 0.09%

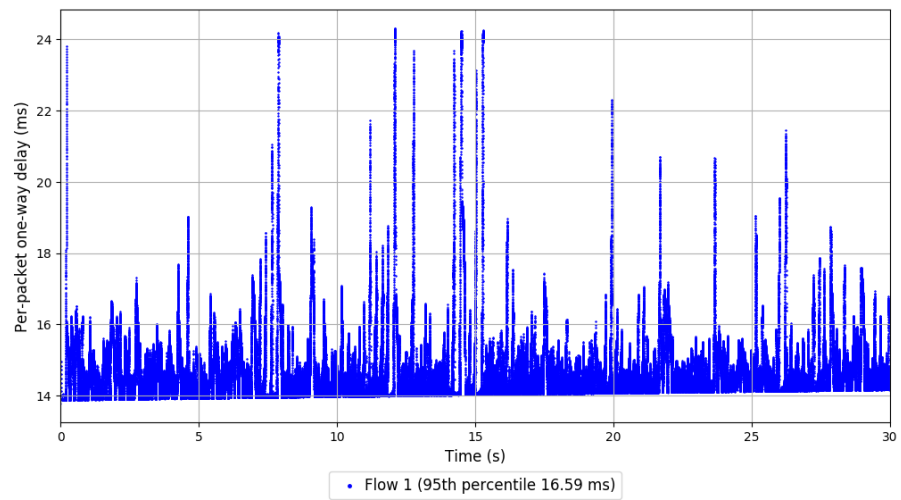
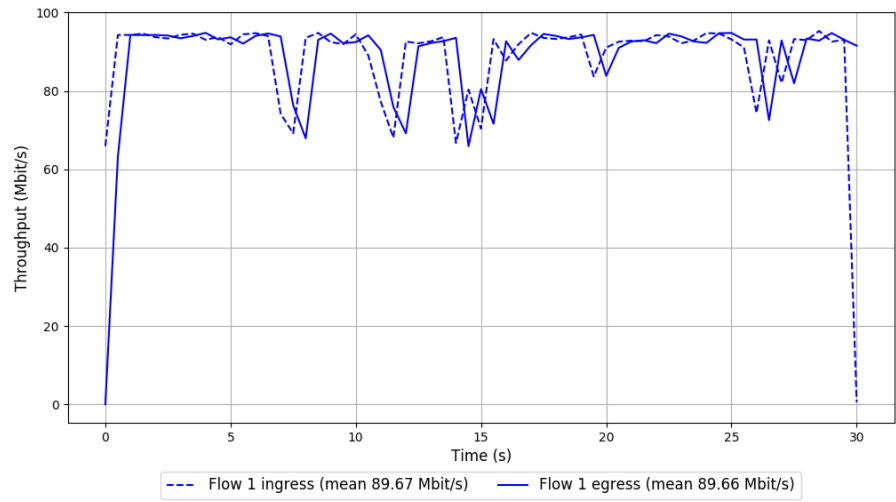
-- Flow 1:

Average throughput: 89.66 Mbit/s

95th percentile per-packet one-way delay: 16.591 ms

Loss rate: 0.09%

Run 1: Report of Copa — Data Link

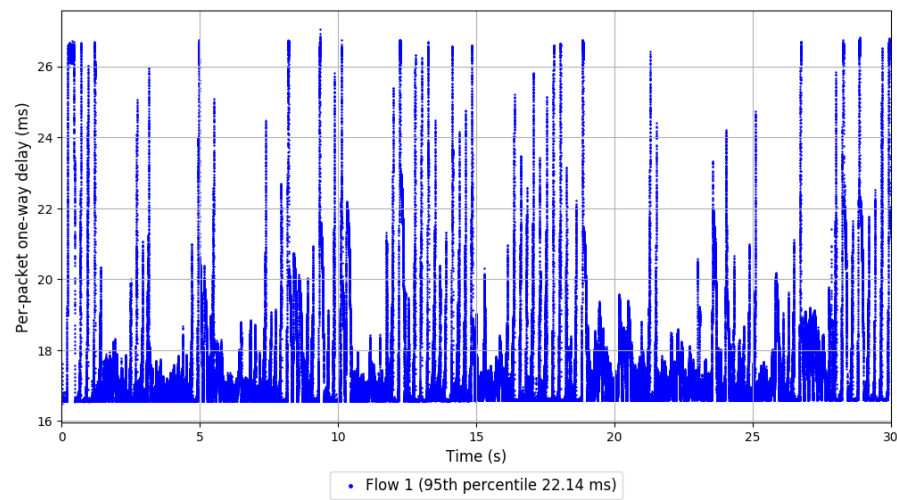
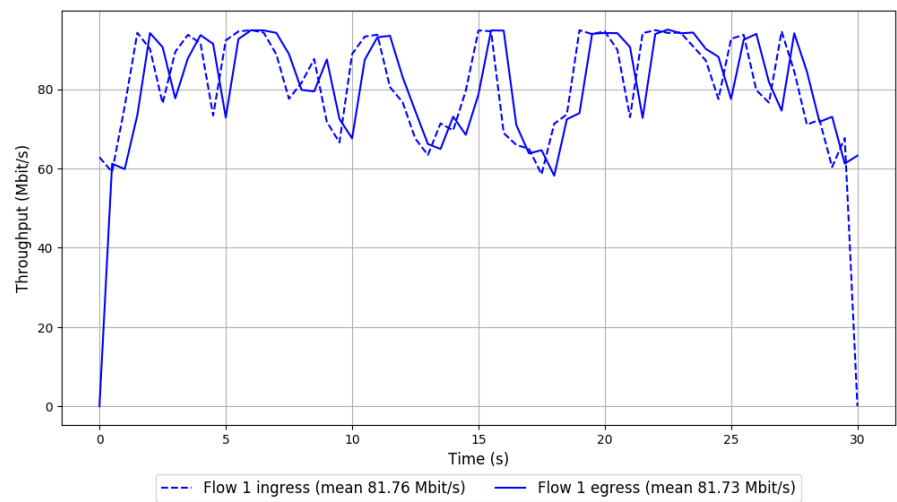


Run 2: Statistics of Copa

Start at: 2018-06-05 19:57:24
End at: 2018-06-05 19:57:54
Local clock offset: 1.38 ms
Remote clock offset: -2.445 ms

Below is generated by plot.py at 2018-06-05 22:41:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 81.73 Mbit/s
95th percentile per-packet one-way delay: 22.145 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 81.73 Mbit/s
95th percentile per-packet one-way delay: 22.145 ms
Loss rate: 0.11%

Run 2: Report of Copa — Data Link

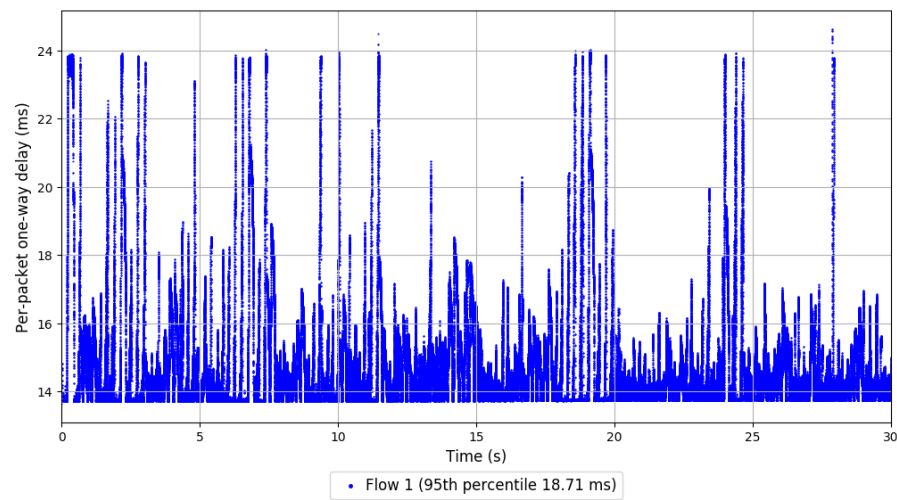
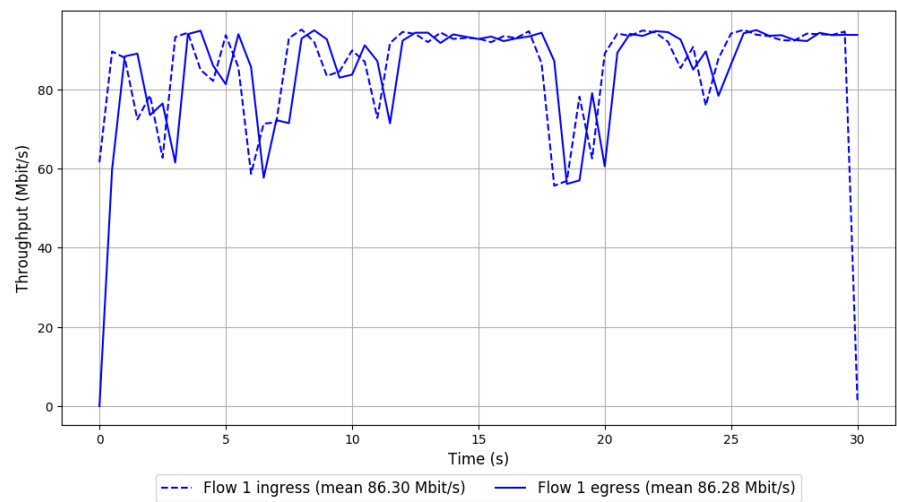


Run 3: Statistics of Copa

Start at: 2018-06-05 20:15:50
End at: 2018-06-05 20:16:20
Local clock offset: -2.041 ms
Remote clock offset: -0.983 ms

Below is generated by plot.py at 2018-06-05 22:41:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.28 Mbit/s
95th percentile per-packet one-way delay: 18.709 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 86.28 Mbit/s
95th percentile per-packet one-way delay: 18.709 ms
Loss rate: 0.10%

Run 3: Report of Copa — Data Link

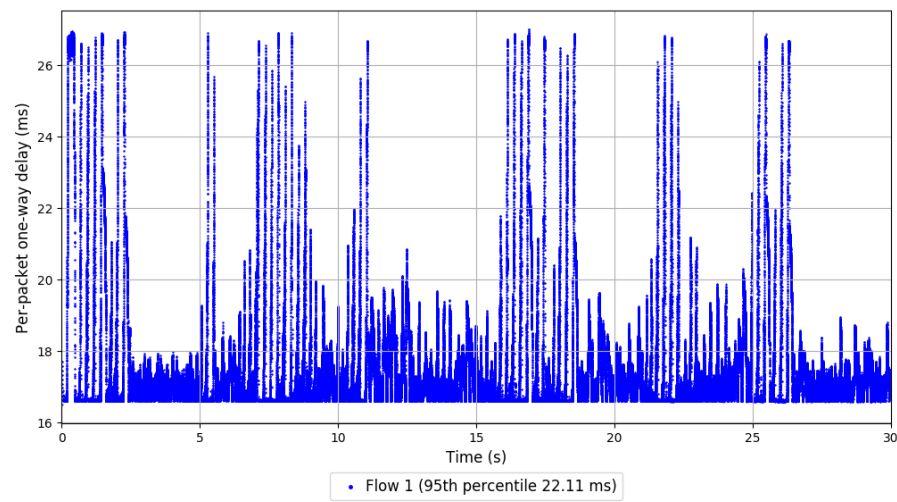
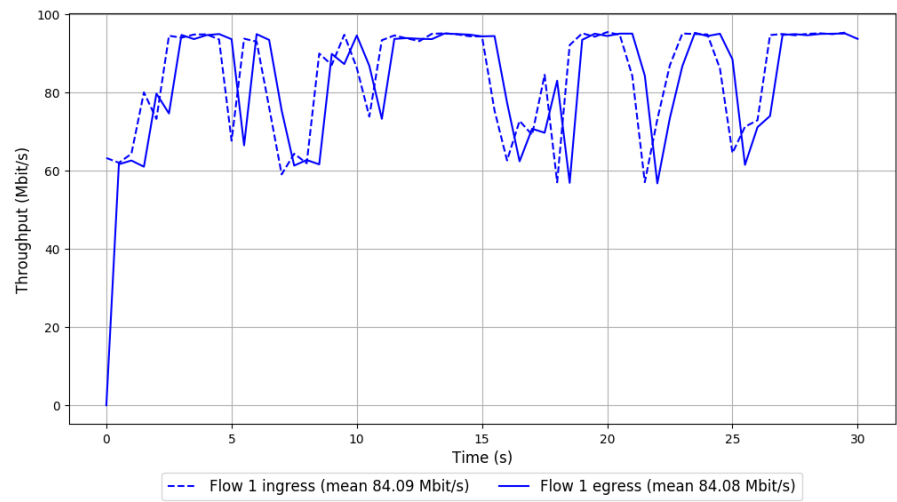


Run 4: Statistics of Copa

Start at: 2018-06-05 20:34:29
End at: 2018-06-05 20:34:59
Local clock offset: -0.334 ms
Remote clock offset: -1.117 ms

Below is generated by plot.py at 2018-06-05 22:41:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.08 Mbit/s
95th percentile per-packet one-way delay: 22.110 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 84.08 Mbit/s
95th percentile per-packet one-way delay: 22.110 ms
Loss rate: 0.10%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-06-05 20:53:20

End at: 2018-06-05 20:53:50

Local clock offset: -0.751 ms

Remote clock offset: 2.13 ms

Below is generated by plot.py at 2018-06-05 22:41:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.84 Mbit/s

95th percentile per-packet one-way delay: 19.164 ms

Loss rate: 0.10%

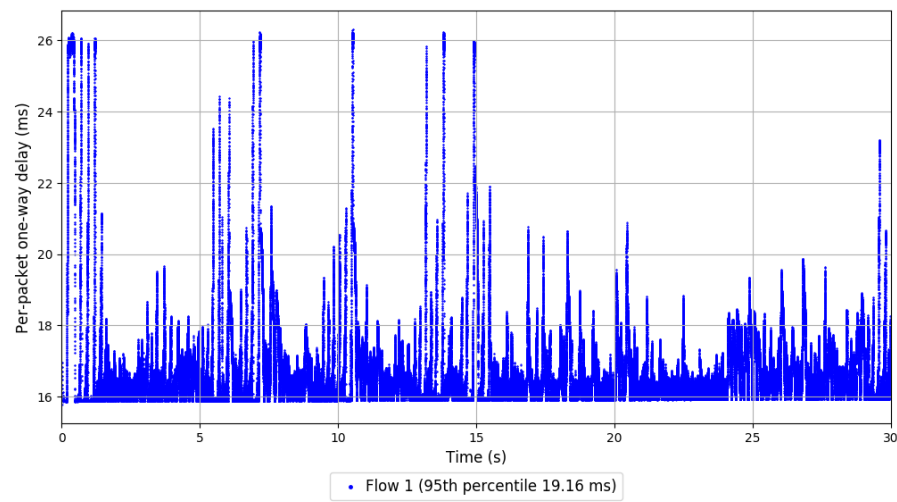
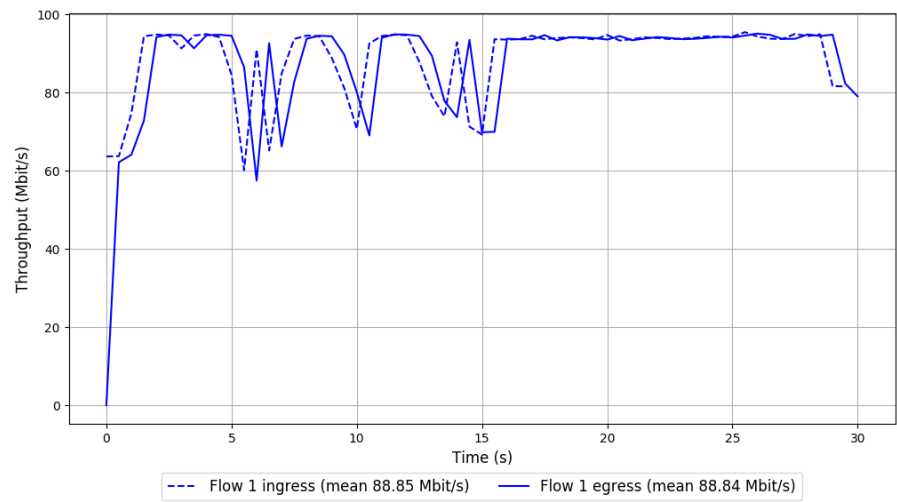
-- Flow 1:

Average throughput: 88.84 Mbit/s

95th percentile per-packet one-way delay: 19.164 ms

Loss rate: 0.10%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-06-05 21:11:40

End at: 2018-06-05 21:12:10

Local clock offset: -1.151 ms

Remote clock offset: 5.395 ms

Below is generated by plot.py at 2018-06-05 22:41:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.69 Mbit/s

95th percentile per-packet one-way delay: 18.983 ms

Loss rate: 0.08%

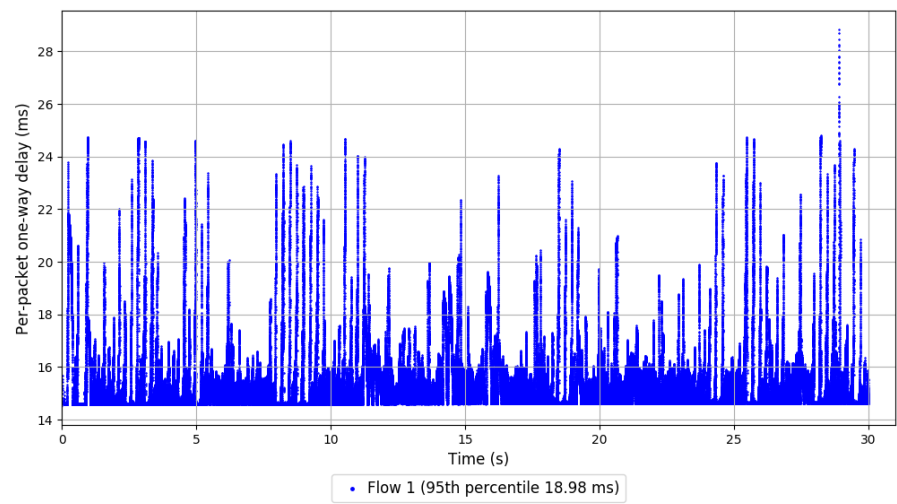
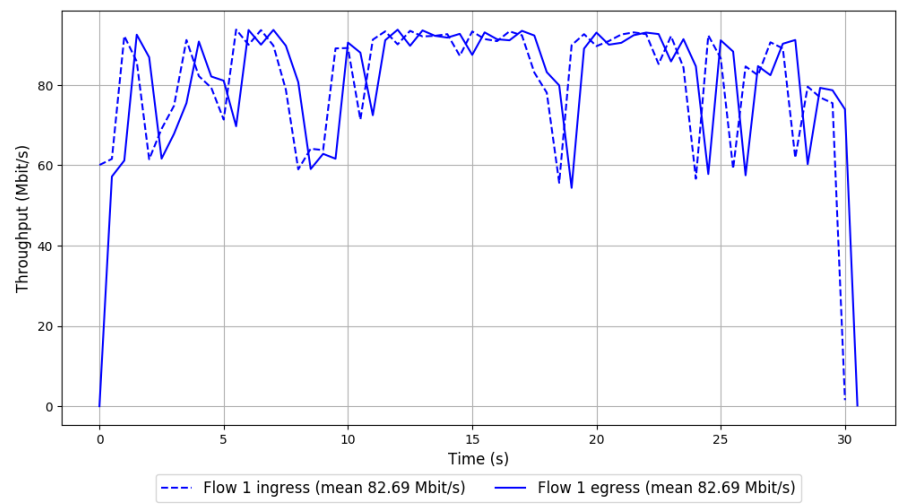
-- Flow 1:

Average throughput: 82.69 Mbit/s

95th percentile per-packet one-way delay: 18.983 ms

Loss rate: 0.08%

Run 6: Report of Copa — Data Link

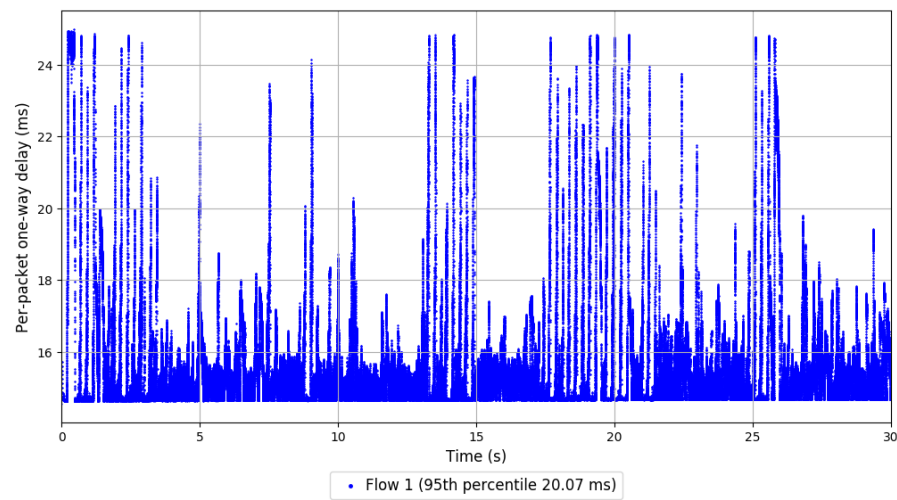
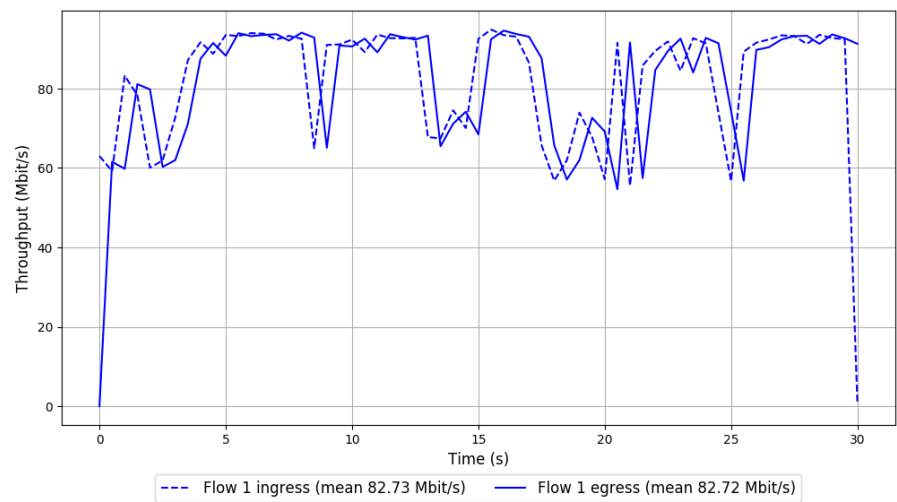


Run 7: Statistics of Copa

Start at: 2018-06-05 21:30:15
End at: 2018-06-05 21:30:45
Local clock offset: -1.841 ms
Remote clock offset: 6.541 ms

Below is generated by plot.py at 2018-06-05 22:43:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 82.72 Mbit/s
95th percentile per-packet one-way delay: 20.065 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 82.72 Mbit/s
95th percentile per-packet one-way delay: 20.065 ms
Loss rate: 0.09%

Run 7: Report of Copa — Data Link

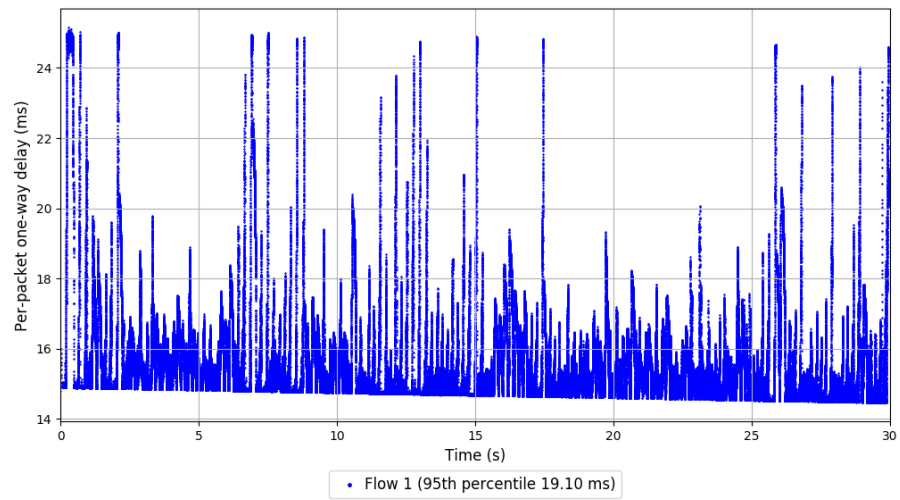
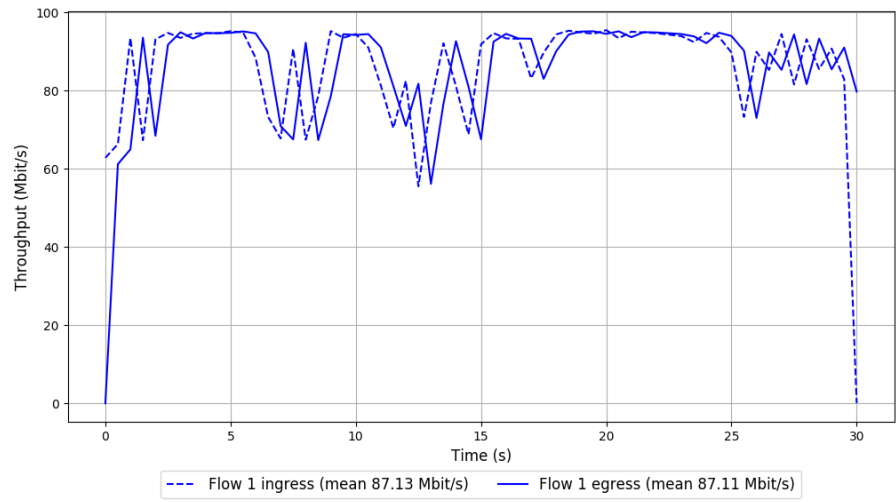


Run 8: Statistics of Copa

Start at: 2018-06-05 21:48:58
End at: 2018-06-05 21:49:28
Local clock offset: -1.531 ms
Remote clock offset: 7.402 ms

Below is generated by plot.py at 2018-06-05 22:43:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.11 Mbit/s
95th percentile per-packet one-way delay: 19.099 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 87.11 Mbit/s
95th percentile per-packet one-way delay: 19.099 ms
Loss rate: 0.11%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-06-05 22:07:20

End at: 2018-06-05 22:07:50

Local clock offset: -1.493 ms

Remote clock offset: 0.428 ms

Below is generated by plot.py at 2018-06-05 22:43:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.71 Mbit/s

95th percentile per-packet one-way delay: 18.015 ms

Loss rate: 0.10%

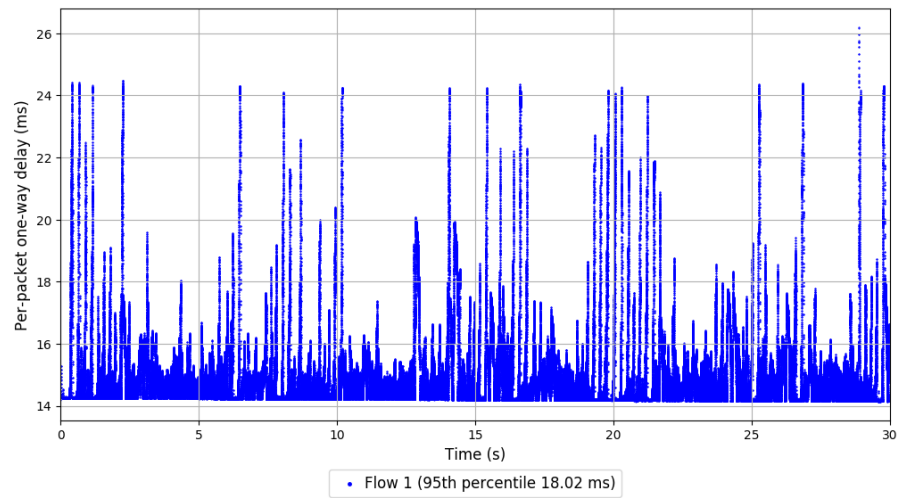
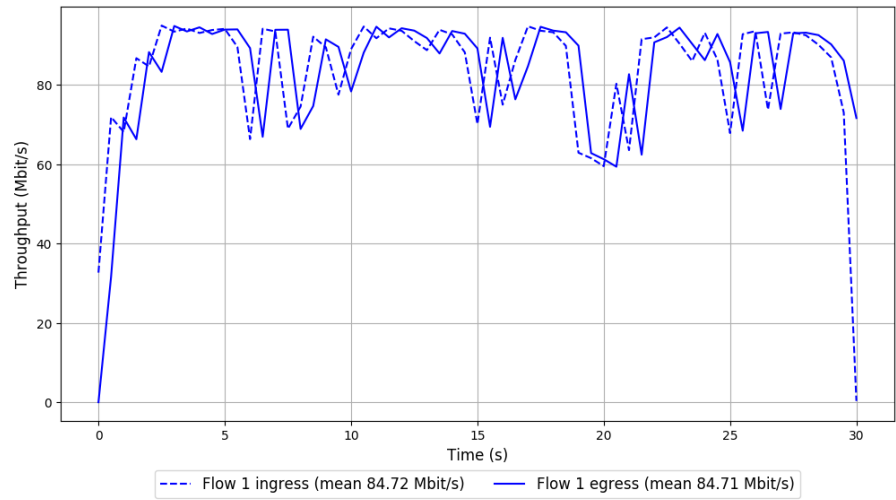
-- Flow 1:

Average throughput: 84.71 Mbit/s

95th percentile per-packet one-way delay: 18.015 ms

Loss rate: 0.10%

Run 9: Report of Copa — Data Link

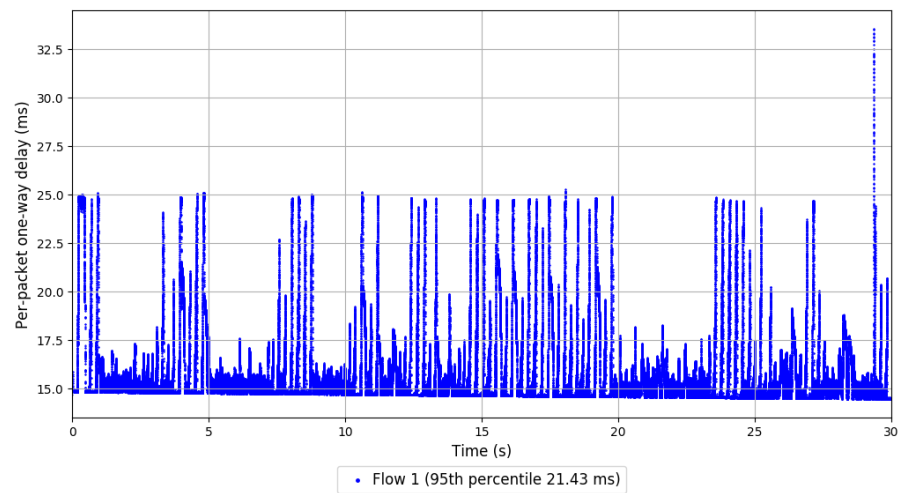
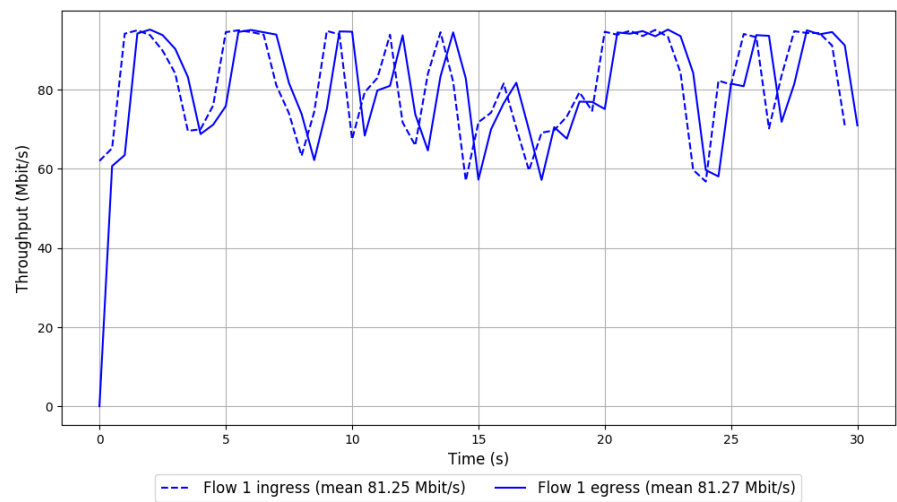


Run 10: Statistics of Copa

Start at: 2018-06-05 22:25:45
End at: 2018-06-05 22:26:15
Local clock offset: 0.488 ms
Remote clock offset: -3.182 ms

Below is generated by plot.py at 2018-06-05 22:43:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 81.27 Mbit/s
95th percentile per-packet one-way delay: 21.431 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 81.27 Mbit/s
95th percentile per-packet one-way delay: 21.431 ms
Loss rate: 0.06%

Run 10: Report of Copa — Data Link

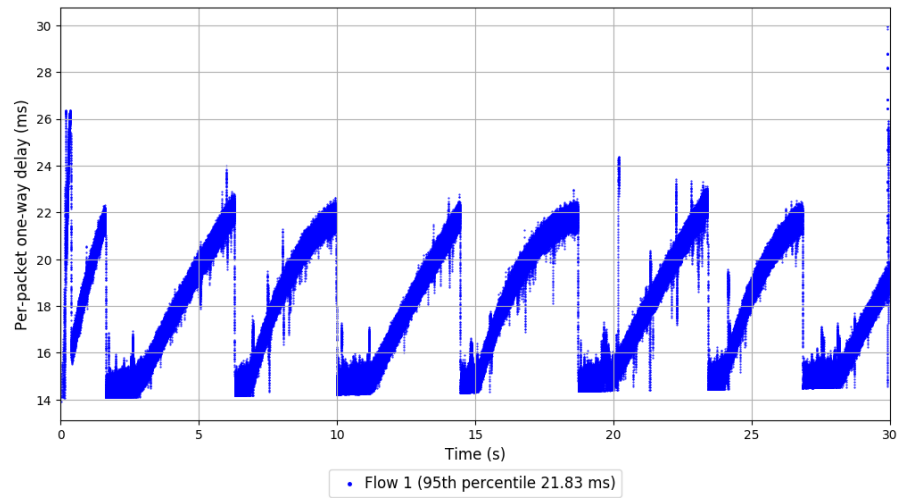
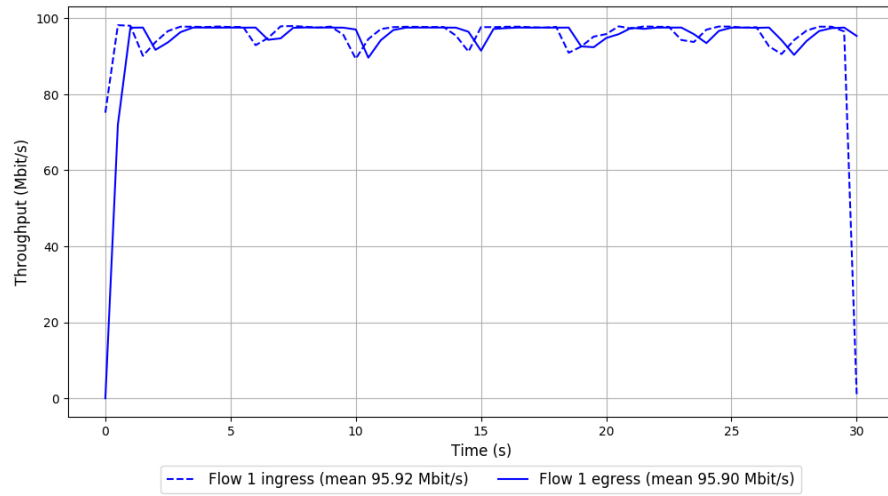


Run 1: Statistics of TCP Cubic

Start at: 2018-06-05 19:34:04
End at: 2018-06-05 19:34:34
Local clock offset: -0.998 ms
Remote clock offset: -11.005 ms

Below is generated by plot.py at 2018-06-05 22:43:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.90 Mbit/s
95th percentile per-packet one-way delay: 21.829 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 95.90 Mbit/s
95th percentile per-packet one-way delay: 21.829 ms
Loss rate: 0.11%

Run 1: Report of TCP Cubic — Data Link

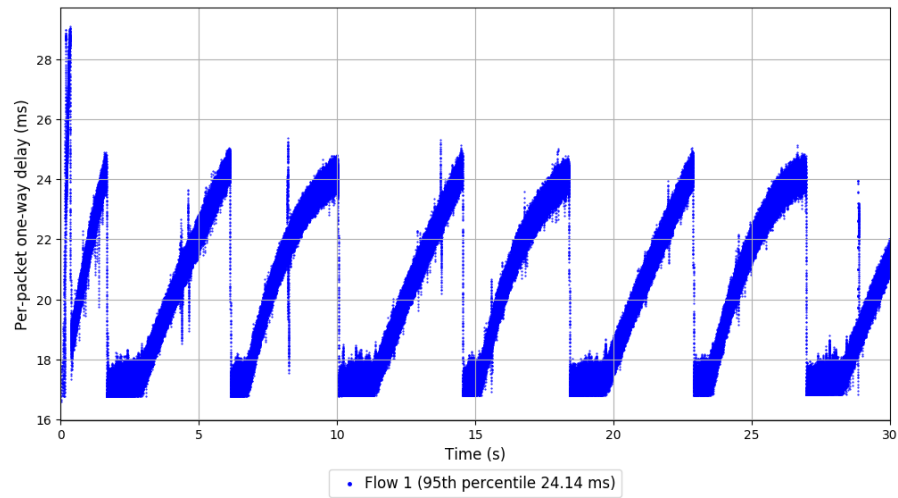
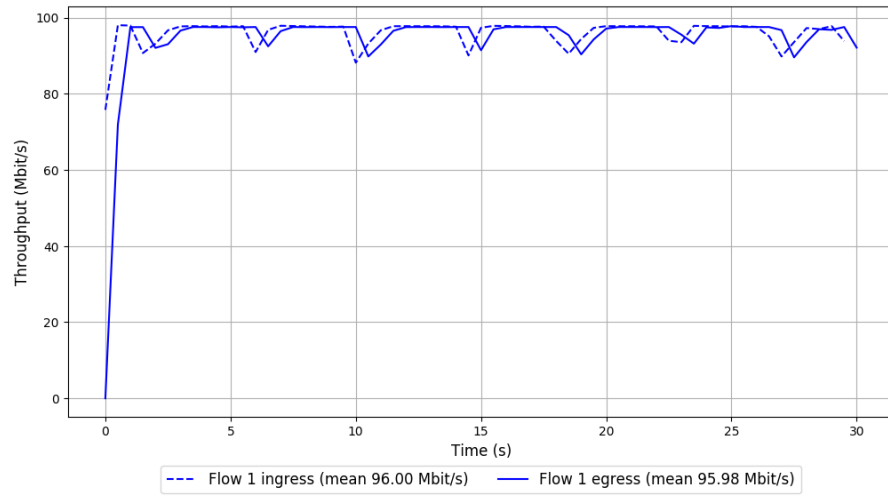


Run 2: Statistics of TCP Cubic

Start at: 2018-06-05 19:52:47
End at: 2018-06-05 19:53:17
Local clock offset: 2.559 ms
Remote clock offset: -2.053 ms

Below is generated by plot.py at 2018-06-05 22:43:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 24.139 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 24.139 ms
Loss rate: 0.10%

Run 2: Report of TCP Cubic — Data Link

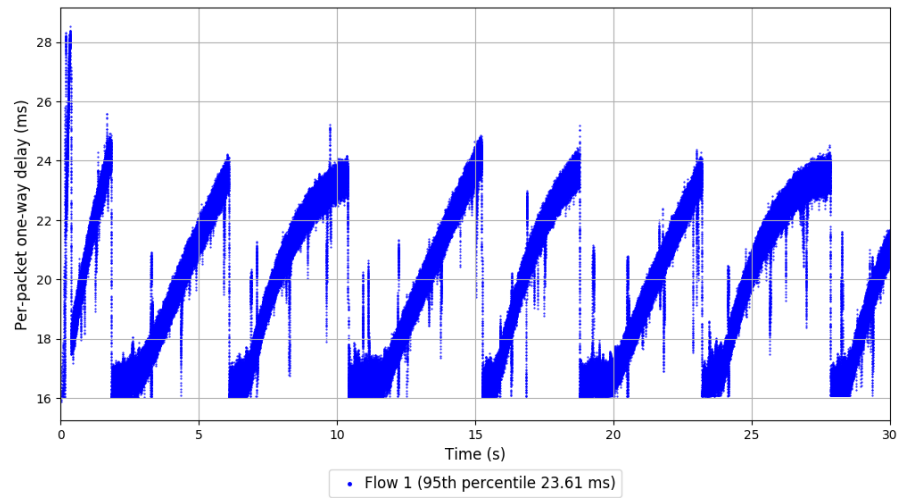
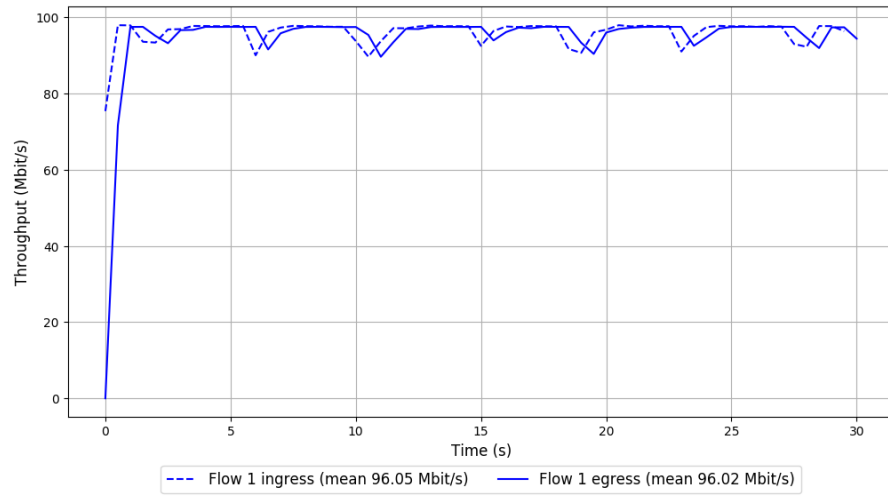


Run 3: Statistics of TCP Cubic

Start at: 2018-06-05 20:11:16
End at: 2018-06-05 20:11:46
Local clock offset: 1.236 ms
Remote clock offset: -0.408 ms

Below is generated by plot.py at 2018-06-05 22:43:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.02 Mbit/s
95th percentile per-packet one-way delay: 23.606 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 96.02 Mbit/s
95th percentile per-packet one-way delay: 23.606 ms
Loss rate: 0.11%

Run 3: Report of TCP Cubic — Data Link

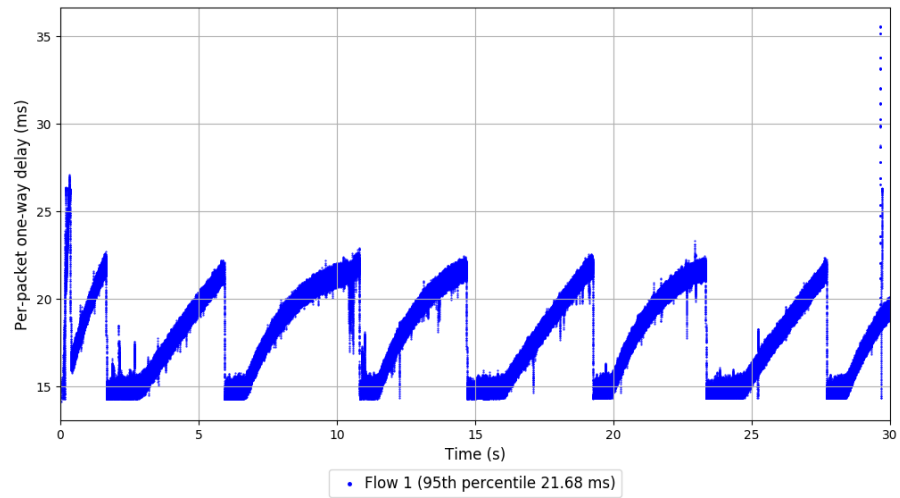
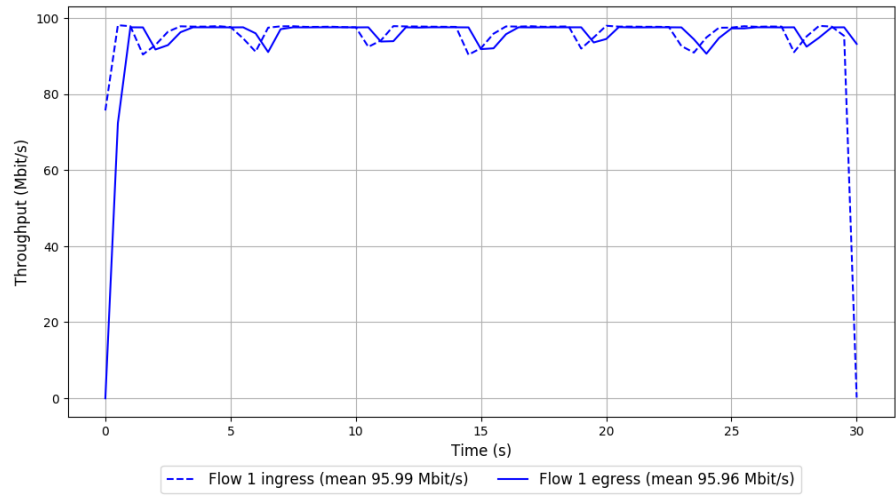


Run 4: Statistics of TCP Cubic

Start at: 2018-06-05 20:29:53
End at: 2018-06-05 20:30:23
Local clock offset: -2.528 ms
Remote clock offset: -1.193 ms

Below is generated by plot.py at 2018-06-05 22:43:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.96 Mbit/s
95th percentile per-packet one-way delay: 21.682 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 95.96 Mbit/s
95th percentile per-packet one-way delay: 21.682 ms
Loss rate: 0.11%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-06-05 20:48:39

End at: 2018-06-05 20:49:09

Local clock offset: -2.459 ms

Remote clock offset: 2.874 ms

Below is generated by plot.py at 2018-06-05 22:44:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.83 Mbit/s

95th percentile per-packet one-way delay: 20.126 ms

Loss rate: 0.10%

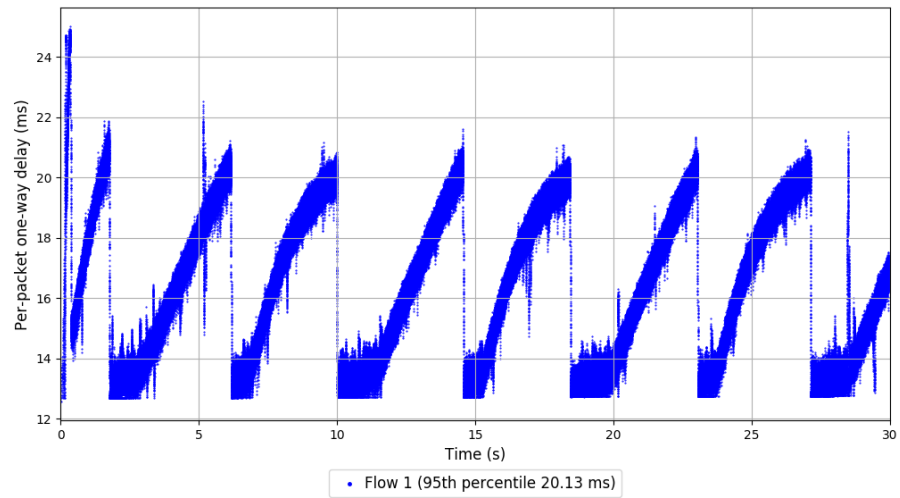
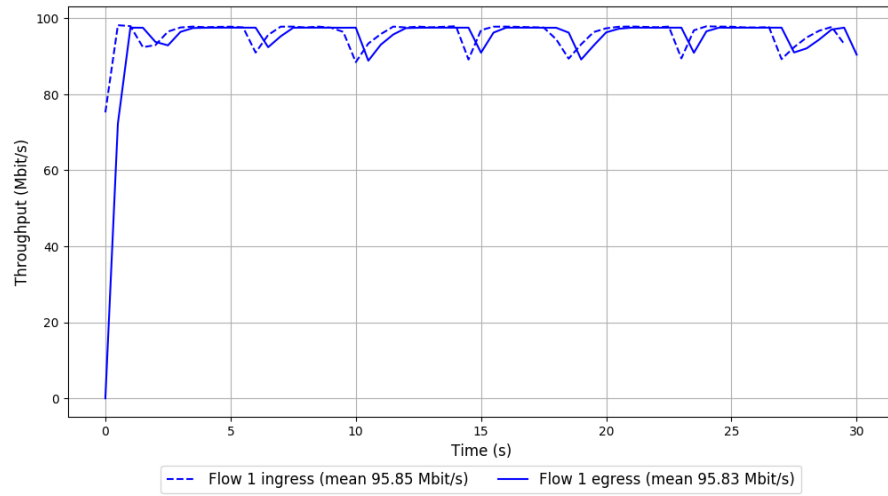
-- Flow 1:

Average throughput: 95.83 Mbit/s

95th percentile per-packet one-way delay: 20.126 ms

Loss rate: 0.10%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-06-05 21:07:03

End at: 2018-06-05 21:07:33

Local clock offset: 0.262 ms

Remote clock offset: 3.722 ms

Below is generated by plot.py at 2018-06-05 22:44:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.94 Mbit/s

95th percentile per-packet one-way delay: 24.508 ms

Loss rate: 0.12%

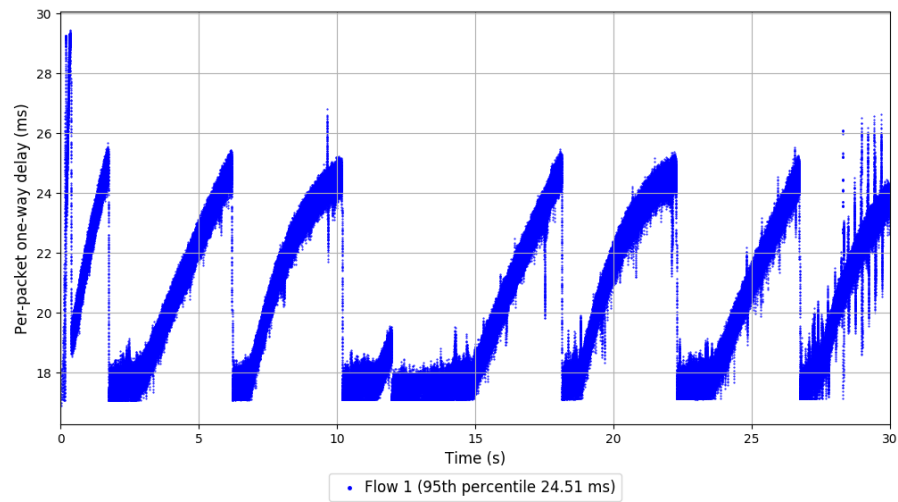
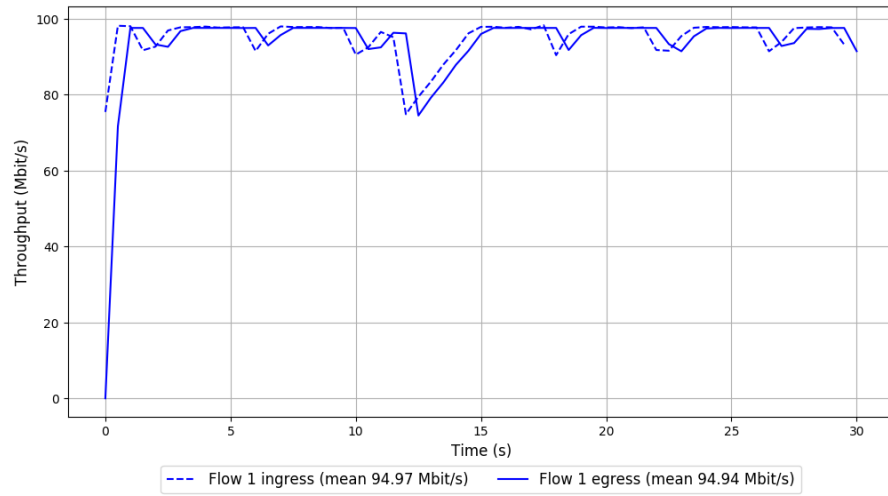
-- Flow 1:

Average throughput: 94.94 Mbit/s

95th percentile per-packet one-way delay: 24.508 ms

Loss rate: 0.12%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-06-05 21:25:33

End at: 2018-06-05 21:26:03

Local clock offset: 0.088 ms

Remote clock offset: 7.108 ms

Below is generated by plot.py at 2018-06-05 22:44:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.59 Mbit/s

95th percentile per-packet one-way delay: 23.128 ms

Loss rate: 0.12%

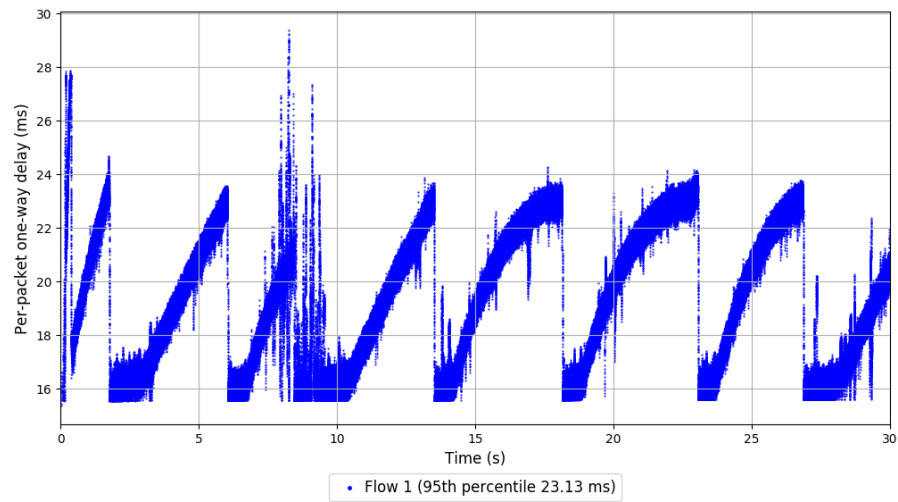
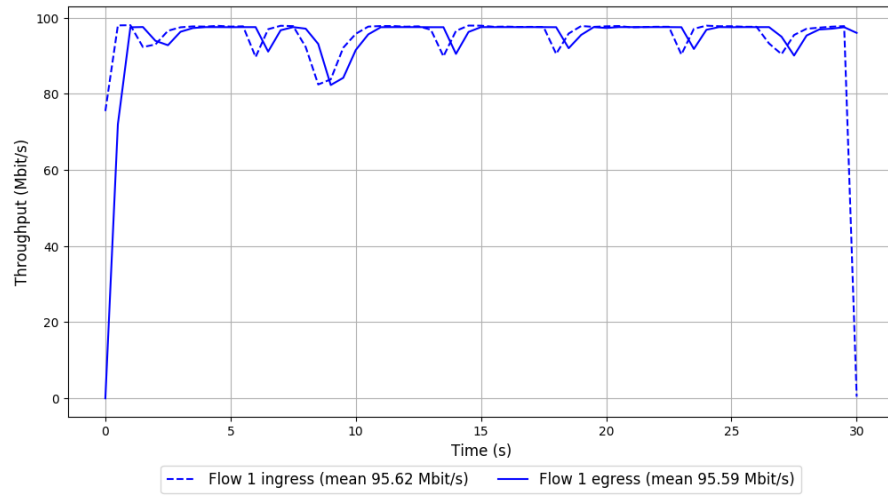
-- Flow 1:

Average throughput: 95.59 Mbit/s

95th percentile per-packet one-way delay: 23.128 ms

Loss rate: 0.12%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-06-05 21:44:19

End at: 2018-06-05 21:44:49

Local clock offset: -1.661 ms

Remote clock offset: 9.01 ms

Below is generated by plot.py at 2018-06-05 22:44:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.93 Mbit/s

95th percentile per-packet one-way delay: 21.328 ms

Loss rate: 0.10%

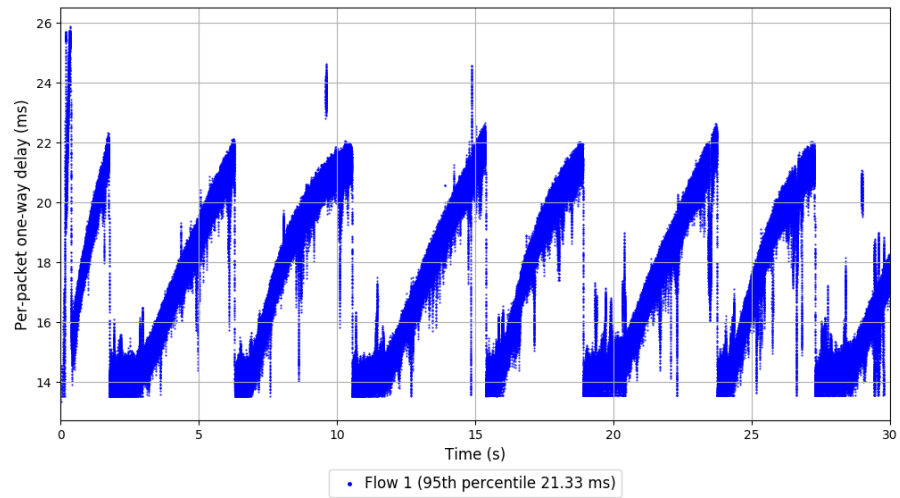
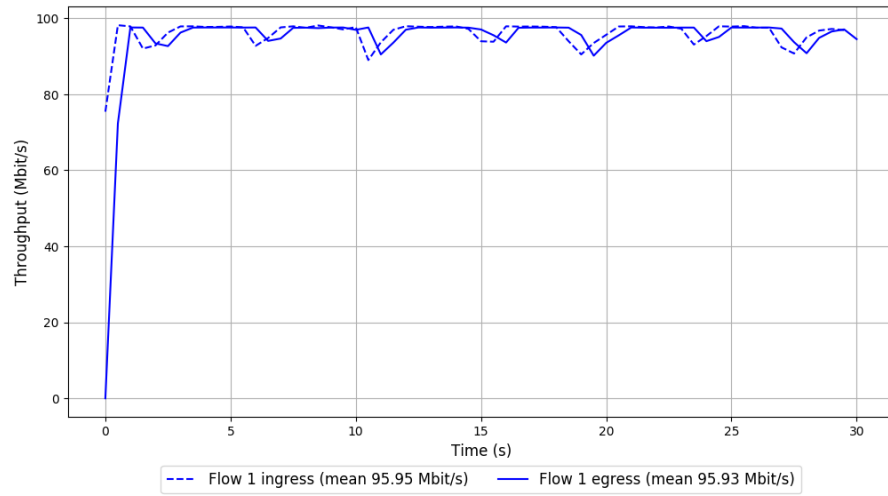
-- Flow 1:

Average throughput: 95.93 Mbit/s

95th percentile per-packet one-way delay: 21.328 ms

Loss rate: 0.10%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-06-05 22:02:44

End at: 2018-06-05 22:03:14

Local clock offset: -1.012 ms

Remote clock offset: 1.337 ms

Below is generated by plot.py at 2018-06-05 22:44:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.36 Mbit/s

95th percentile per-packet one-way delay: 21.275 ms

Loss rate: 0.08%

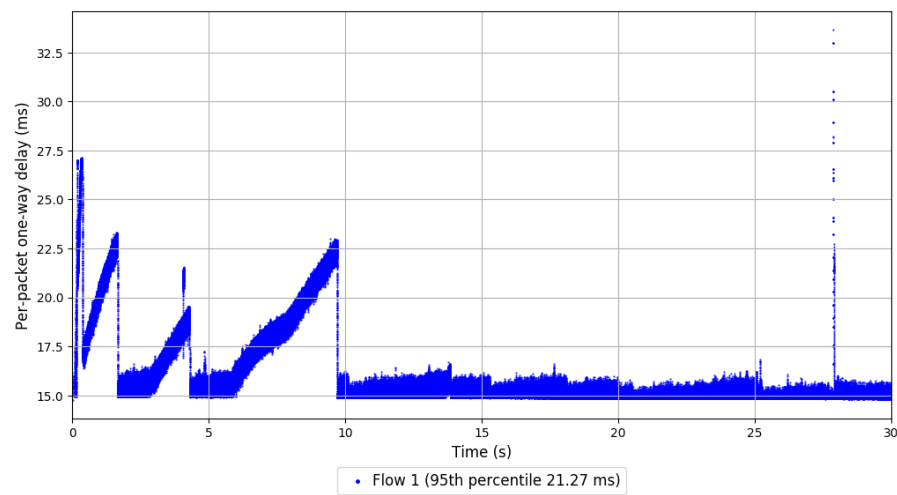
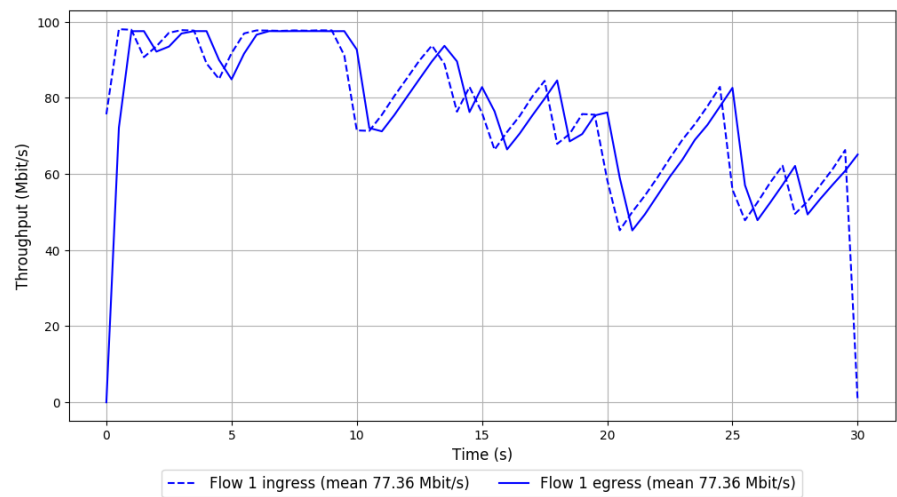
-- Flow 1:

Average throughput: 77.36 Mbit/s

95th percentile per-packet one-way delay: 21.275 ms

Loss rate: 0.08%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-06-05 22:21:12

End at: 2018-06-05 22:21:42

Local clock offset: 0.029 ms

Remote clock offset: -2.002 ms

Below is generated by plot.py at 2018-06-05 22:44:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.89 Mbit/s

95th percentile per-packet one-way delay: 23.451 ms

Loss rate: 0.11%

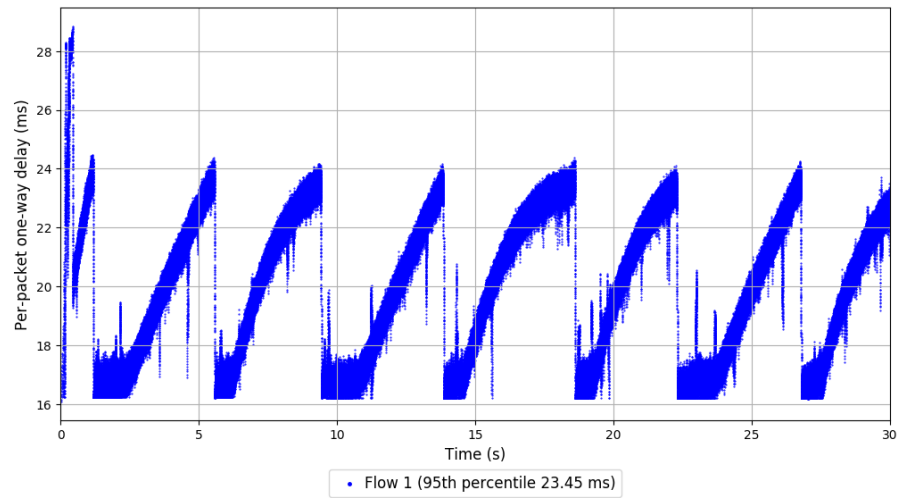
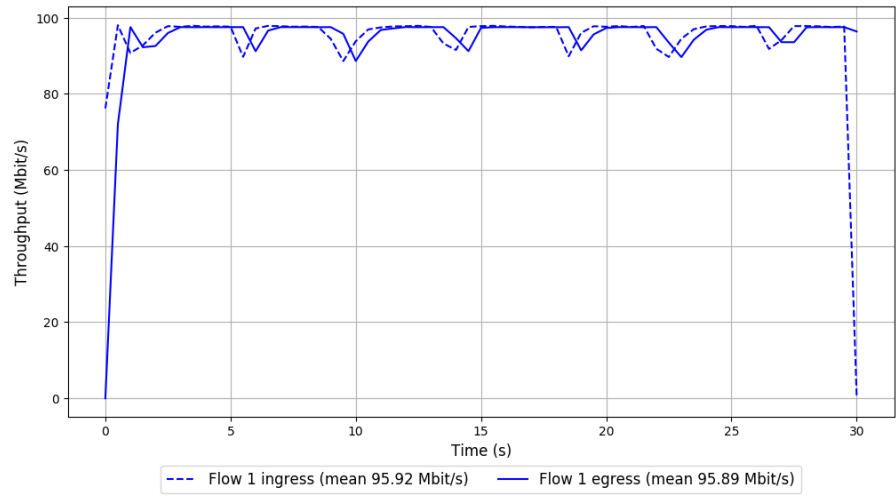
-- Flow 1:

Average throughput: 95.89 Mbit/s

95th percentile per-packet one-way delay: 23.451 ms

Loss rate: 0.11%

Run 10: Report of TCP Cubic — Data Link

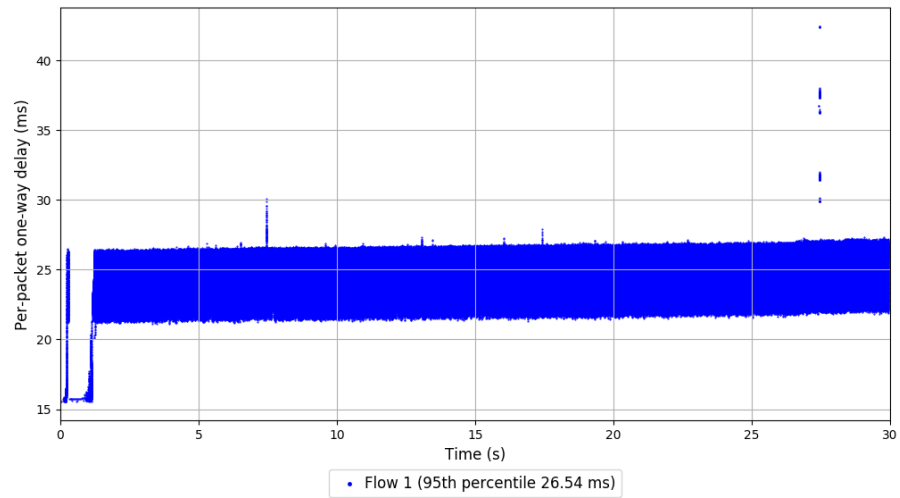
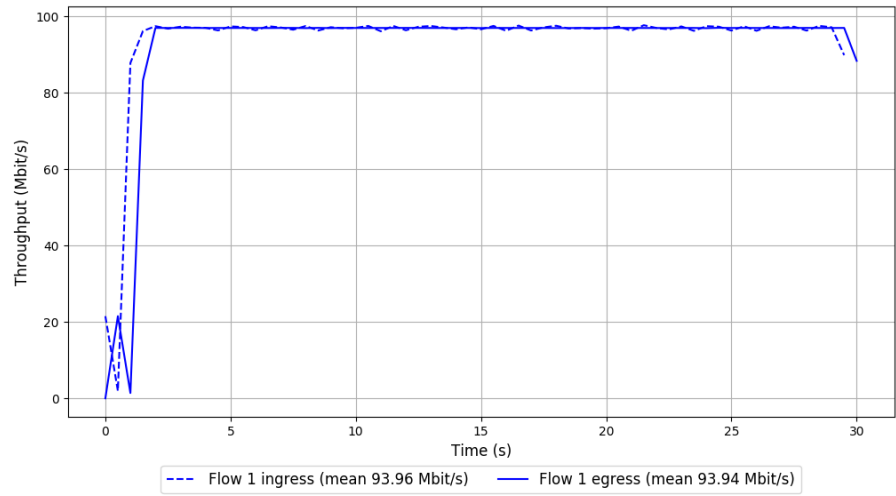


```
Run 1: Statistics of FillP

Start at: 2018-06-05 19:31:43
End at: 2018-06-05 19:32:13
Local clock offset: 0.222 ms
Remote clock offset: -14.165 ms

# Below is generated by plot.py at 2018-06-05 22:44:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.94 Mbit/s
95th percentile per-packet one-way delay: 26.535 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 93.94 Mbit/s
95th percentile per-packet one-way delay: 26.535 ms
Loss rate: 0.12%
```

Run 1: Report of FillP — Data Link

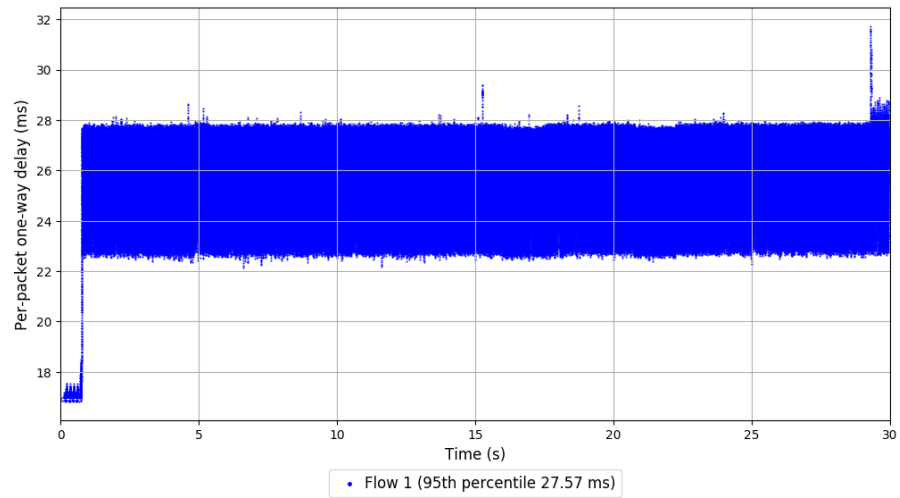
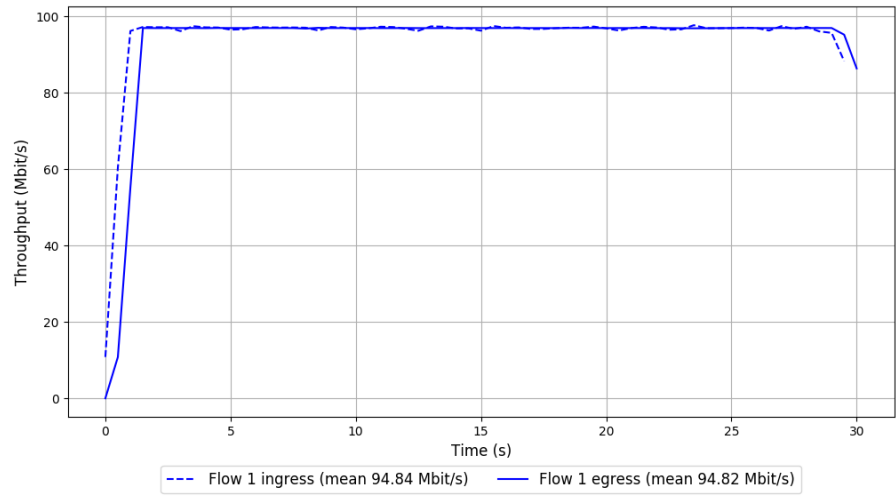


Run 2: Statistics of FillP

Start at: 2018-06-05 19:50:26
End at: 2018-06-05 19:50:56
Local clock offset: 2.364 ms
Remote clock offset: -2.858 ms

Below is generated by plot.py at 2018-06-05 22:45:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.82 Mbit/s
95th percentile per-packet one-way delay: 27.575 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 94.82 Mbit/s
95th percentile per-packet one-way delay: 27.575 ms
Loss rate: 0.12%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-06-05 20:08:56

End at: 2018-06-05 20:09:26

Local clock offset: -0.294 ms

Remote clock offset: -0.85 ms

Below is generated by plot.py at 2018-06-05 22:45:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.17 Mbit/s

95th percentile per-packet one-way delay: 25.206 ms

Loss rate: 0.11%

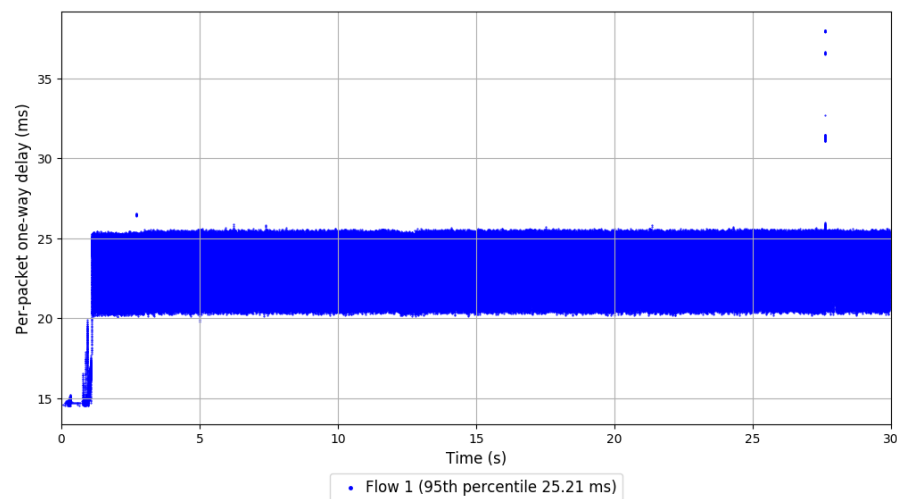
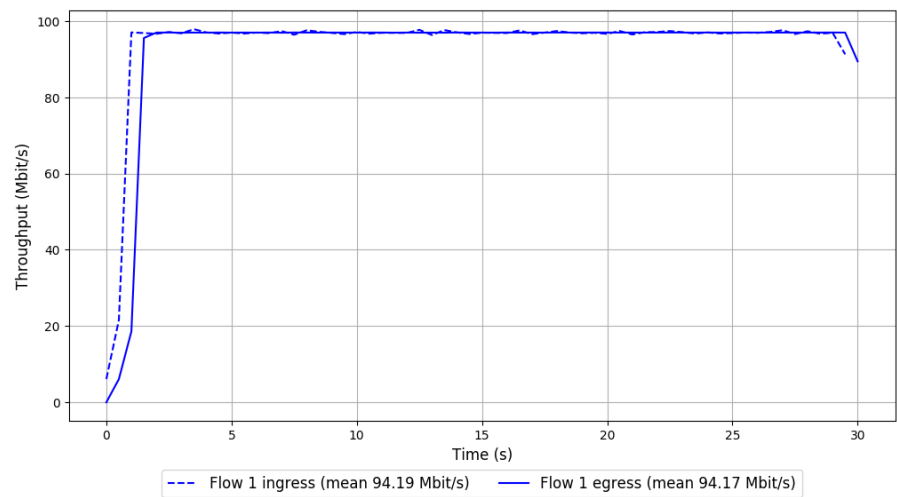
-- Flow 1:

Average throughput: 94.17 Mbit/s

95th percentile per-packet one-way delay: 25.206 ms

Loss rate: 0.11%

Run 3: Report of FillP — Data Link

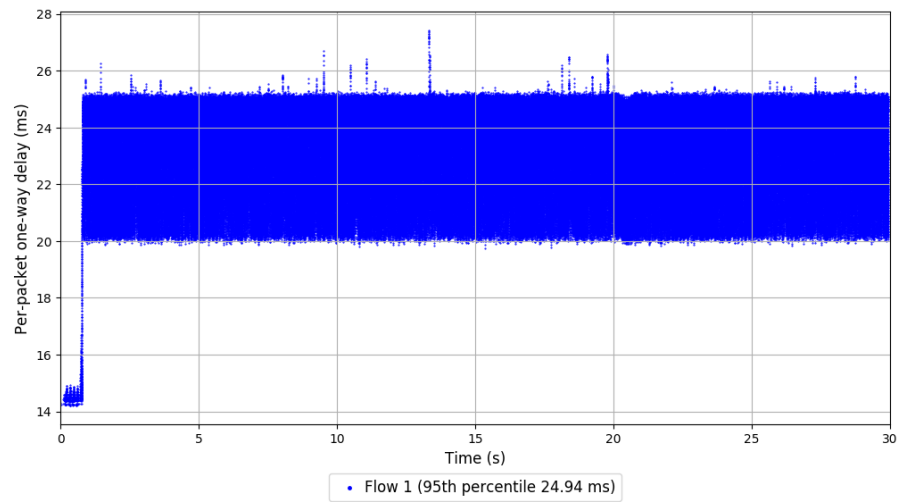
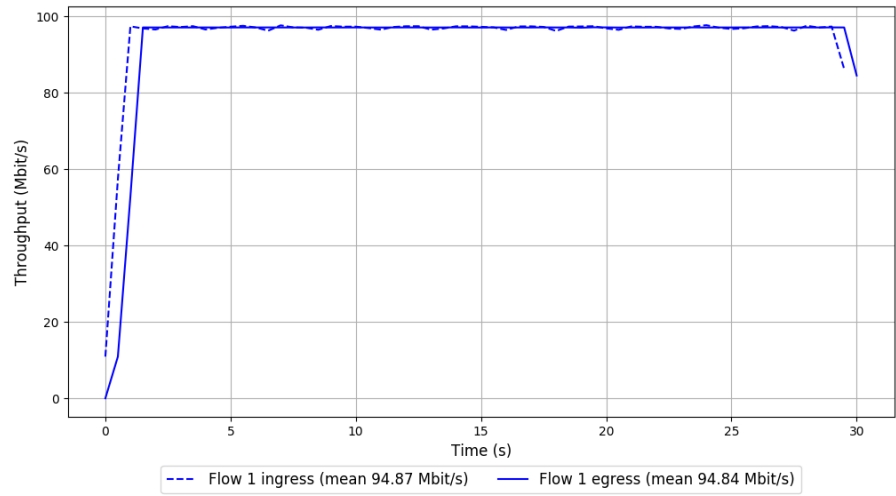


Run 4: Statistics of FillP

Start at: 2018-06-05 20:27:24
End at: 2018-06-05 20:27:54
Local clock offset: -1.721 ms
Remote clock offset: -0.546 ms

Below is generated by plot.py at 2018-06-05 22:45:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.84 Mbit/s
95th percentile per-packet one-way delay: 24.940 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 94.84 Mbit/s
95th percentile per-packet one-way delay: 24.940 ms
Loss rate: 0.11%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-06-05 20:46:10

End at: 2018-06-05 20:46:40

Local clock offset: -2.518 ms

Remote clock offset: 0.743 ms

Below is generated by plot.py at 2018-06-05 22:45:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.84 Mbit/s

95th percentile per-packet one-way delay: 24.898 ms

Loss rate: 0.13%

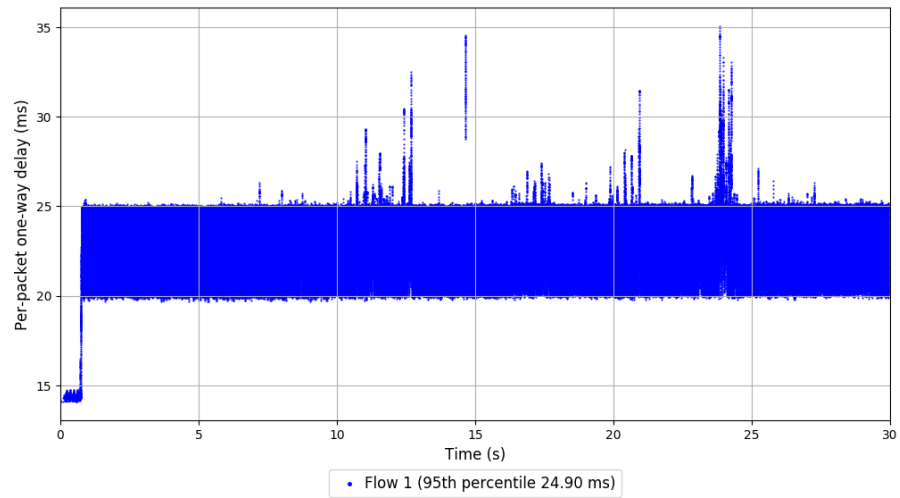
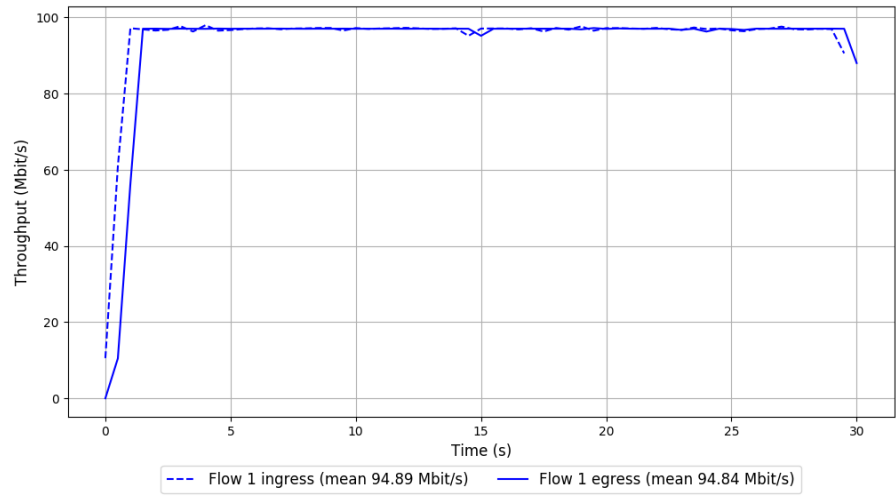
-- Flow 1:

Average throughput: 94.84 Mbit/s

95th percentile per-packet one-way delay: 24.898 ms

Loss rate: 0.13%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-06-05 21:04:45

End at: 2018-06-05 21:05:15

Local clock offset: -3.556 ms

Remote clock offset: 3.686 ms

Below is generated by plot.py at 2018-06-05 22:45:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.89 Mbit/s

95th percentile per-packet one-way delay: 23.548 ms

Loss rate: 0.12%

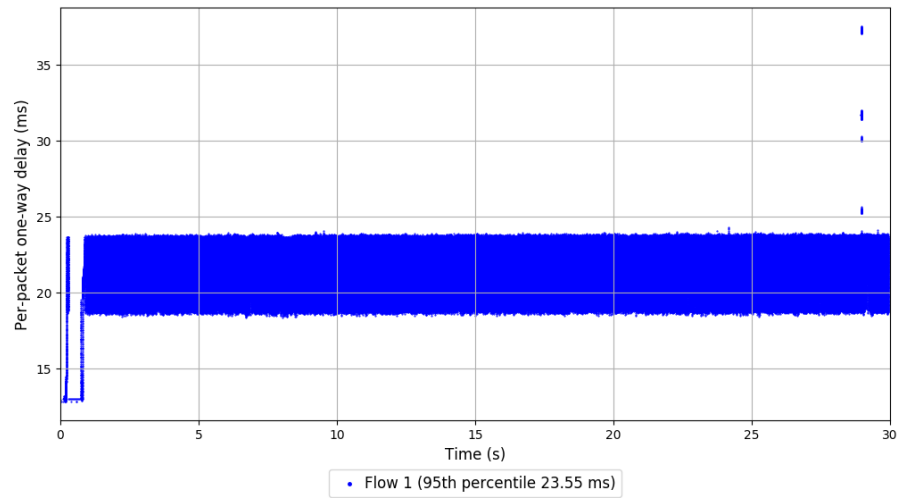
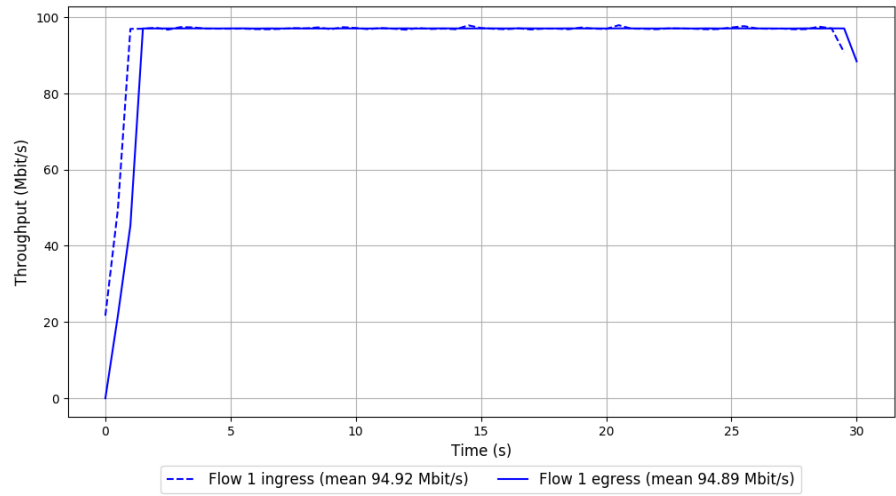
-- Flow 1:

Average throughput: 94.89 Mbit/s

95th percentile per-packet one-way delay: 23.548 ms

Loss rate: 0.12%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-06-05 21:23:11

End at: 2018-06-05 21:23:41

Local clock offset: -3.017 ms

Remote clock offset: 5.402 ms

Below is generated by plot.py at 2018-06-05 22:45:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.84 Mbit/s

95th percentile per-packet one-way delay: 24.460 ms

Loss rate: 0.11%

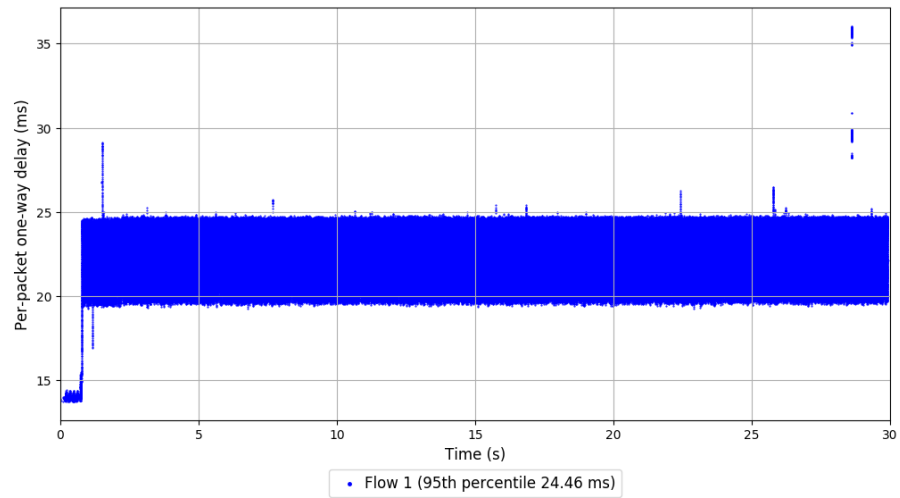
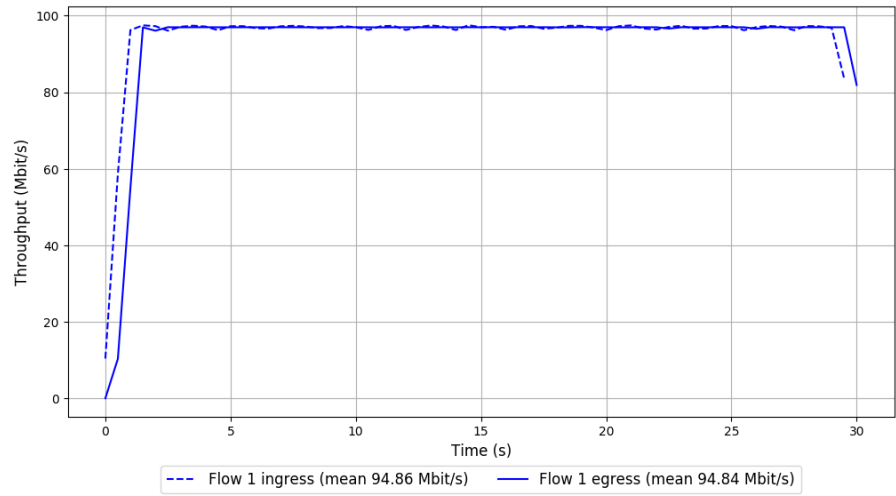
-- Flow 1:

Average throughput: 94.84 Mbit/s

95th percentile per-packet one-way delay: 24.460 ms

Loss rate: 0.11%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-06-05 21:41:53

End at: 2018-06-05 21:42:24

Local clock offset: 0.225 ms

Remote clock offset: 7.095 ms

Below is generated by plot.py at 2018-06-05 22:45:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.90 Mbit/s

95th percentile per-packet one-way delay: 27.634 ms

Loss rate: 0.11%

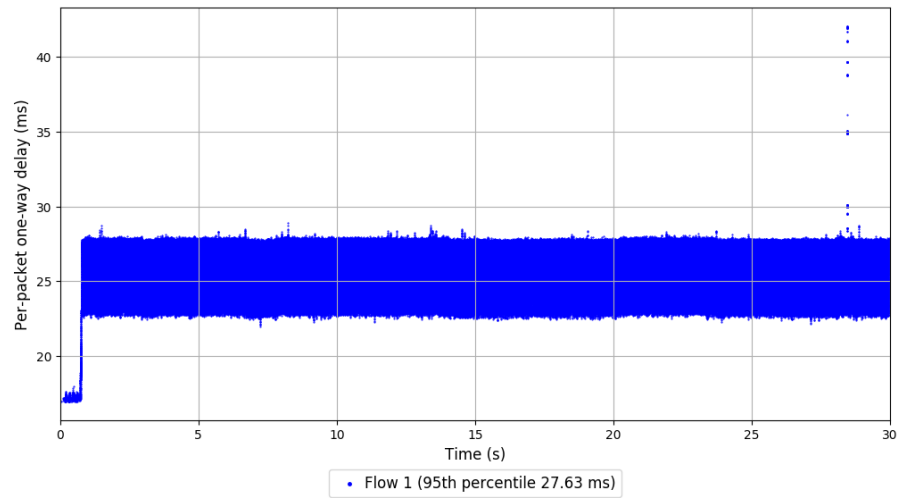
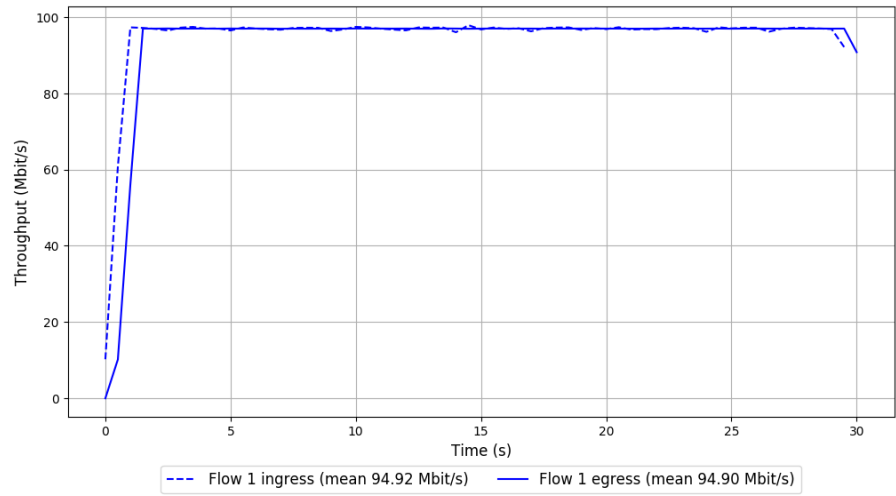
-- Flow 1:

Average throughput: 94.90 Mbit/s

95th percentile per-packet one-way delay: 27.634 ms

Loss rate: 0.11%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-06-05 22:00:25

End at: 2018-06-05 22:00:55

Local clock offset: -2.274 ms

Remote clock offset: 1.126 ms

Below is generated by plot.py at 2018-06-05 22:46:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.85 Mbit/s

95th percentile per-packet one-way delay: 24.866 ms

Loss rate: 0.12%

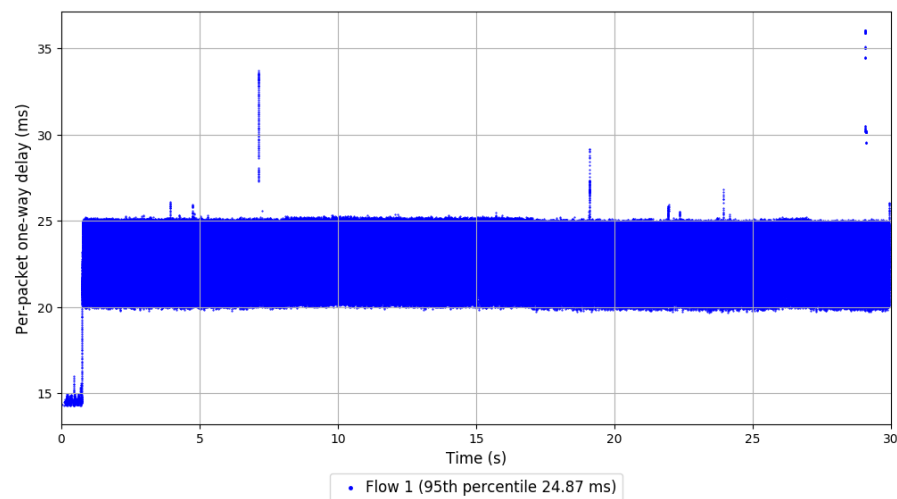
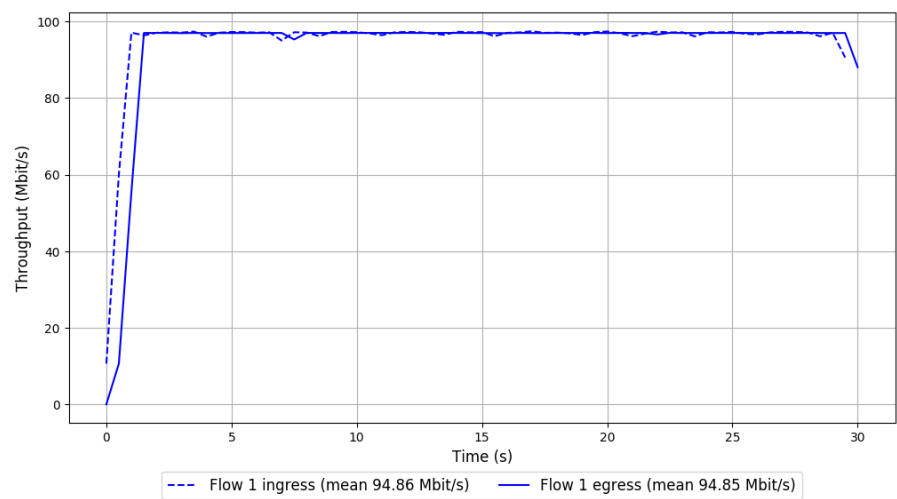
-- Flow 1:

Average throughput: 94.85 Mbit/s

95th percentile per-packet one-way delay: 24.866 ms

Loss rate: 0.12%

Run 9: Report of FillP — Data Link

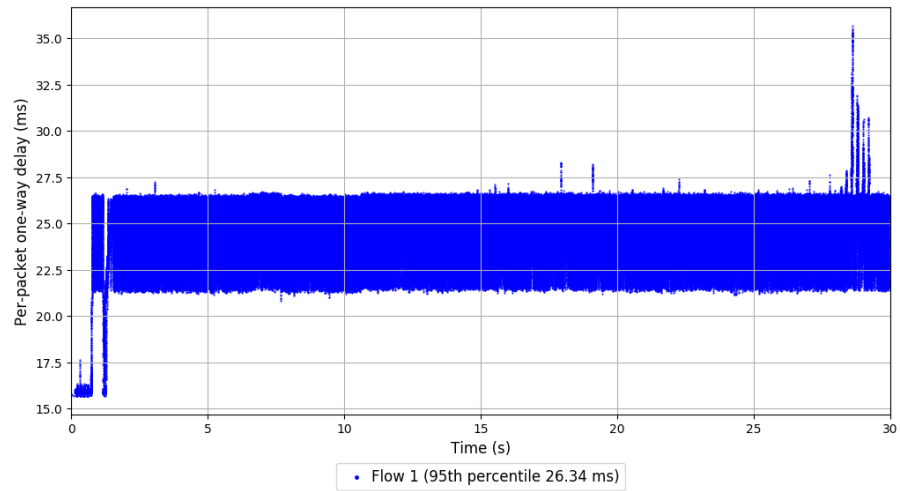
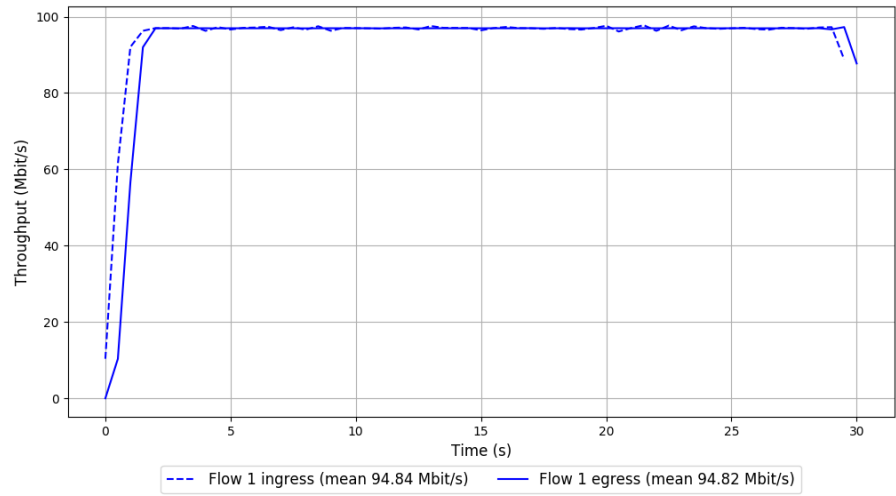


Run 10: Statistics of FillP

Start at: 2018-06-05 22:18:49
End at: 2018-06-05 22:19:19
Local clock offset: 0.801 ms
Remote clock offset: -0.615 ms

Below is generated by plot.py at 2018-06-05 22:46:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.82 Mbit/s
95th percentile per-packet one-way delay: 26.344 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 94.82 Mbit/s
95th percentile per-packet one-way delay: 26.344 ms
Loss rate: 0.11%

Run 10: Report of FillP — Data Link



Run 1: Statistics of Indigo

Start at: 2018-06-05 19:41:17

End at: 2018-06-05 19:41:47

Local clock offset: -0.396 ms

Remote clock offset: -6.58 ms

Below is generated by plot.py at 2018-06-05 22:46:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.38 Mbit/s

95th percentile per-packet one-way delay: 17.499 ms

Loss rate: 0.09%

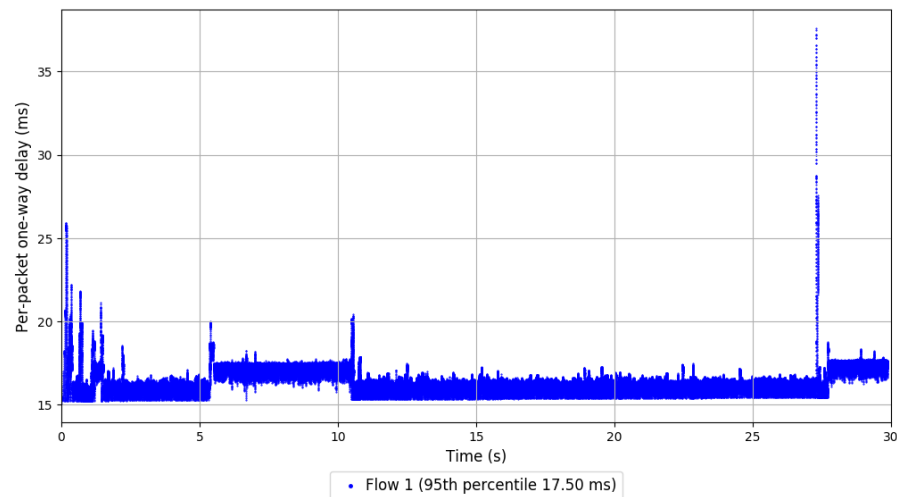
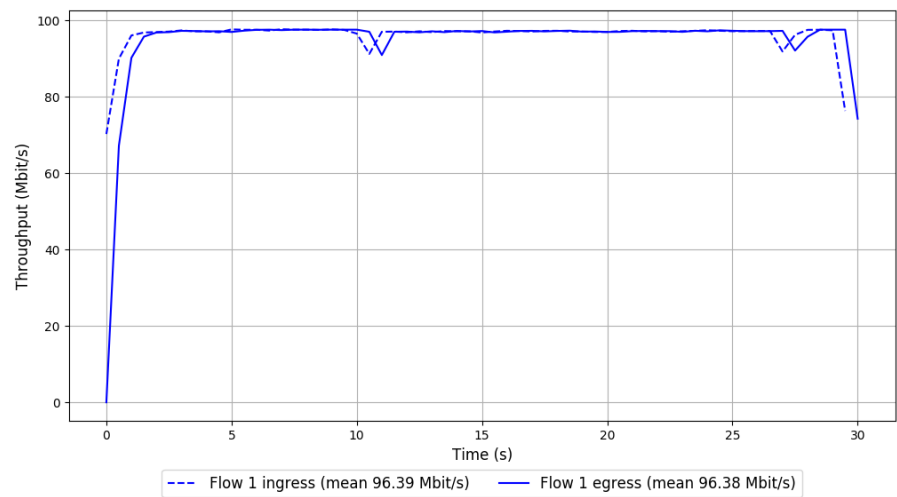
-- Flow 1:

Average throughput: 96.38 Mbit/s

95th percentile per-packet one-way delay: 17.499 ms

Loss rate: 0.09%

Run 1: Report of Indigo — Data Link

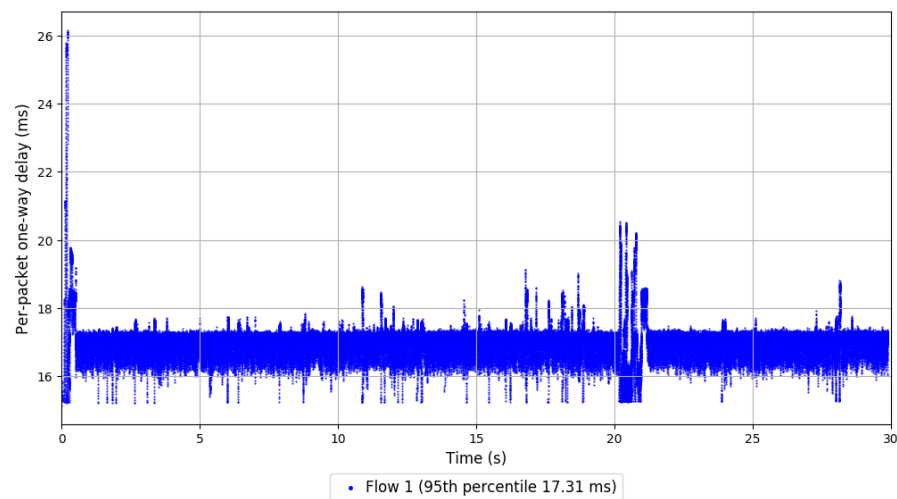
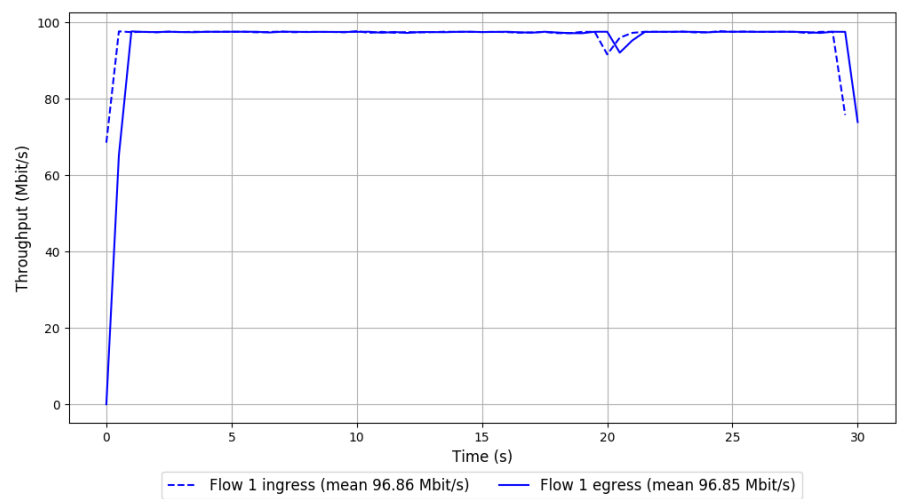


Run 2: Statistics of Indigo

Start at: 2018-06-05 19:59:45
End at: 2018-06-05 20:00:15
Local clock offset: -0.062 ms
Remote clock offset: -2.329 ms

Below is generated by plot.py at 2018-06-05 22:46:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.85 Mbit/s
95th percentile per-packet one-way delay: 17.314 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.85 Mbit/s
95th percentile per-packet one-way delay: 17.314 ms
Loss rate: 0.09%

Run 2: Report of Indigo — Data Link

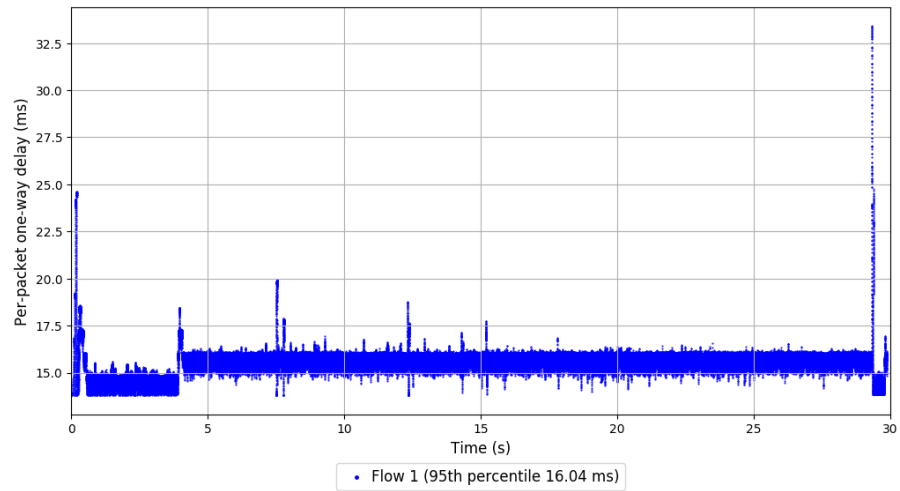
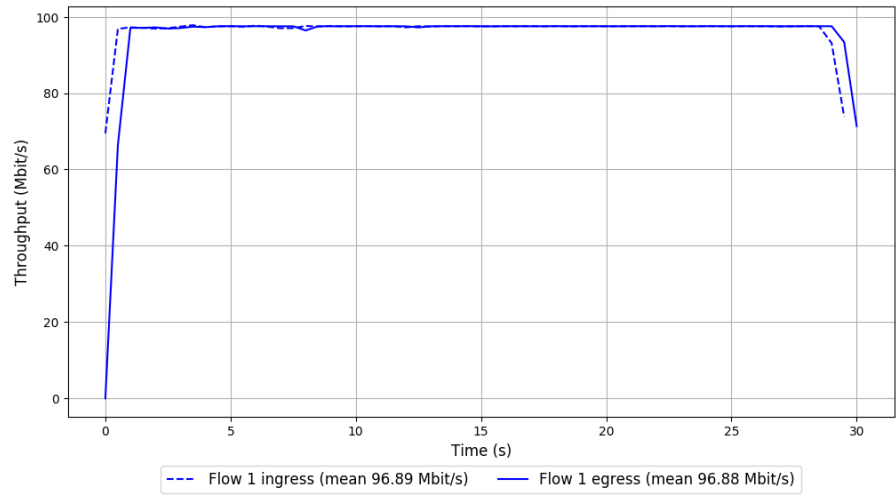


Run 3: Statistics of Indigo

Start at: 2018-06-05 20:18:12
End at: 2018-06-05 20:18:42
Local clock offset: -2.189 ms
Remote clock offset: -1.047 ms

Below is generated by plot.py at 2018-06-05 22:46:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.88 Mbit/s
95th percentile per-packet one-way delay: 16.037 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.88 Mbit/s
95th percentile per-packet one-way delay: 16.037 ms
Loss rate: 0.09%

Run 3: Report of Indigo — Data Link

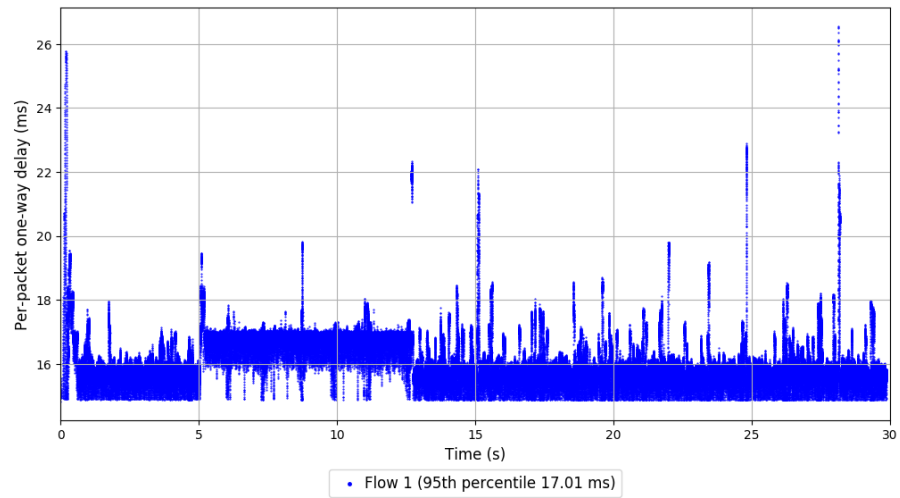
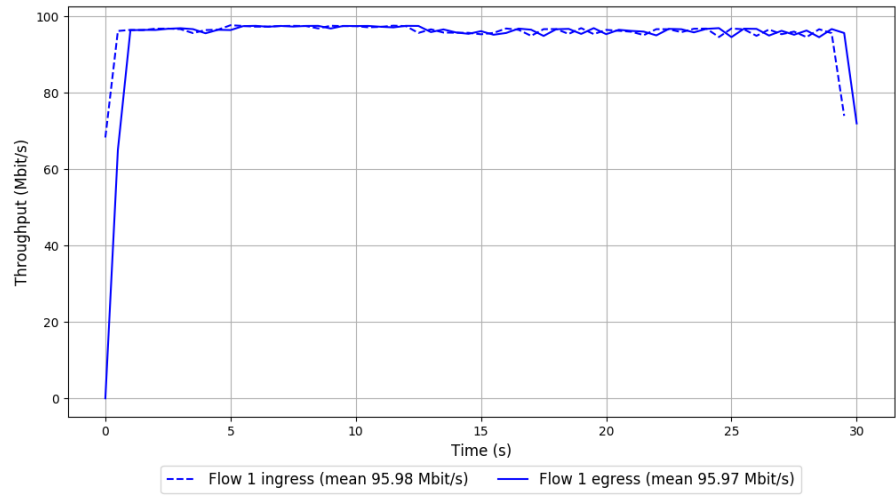


Run 4: Statistics of Indigo

Start at: 2018-06-05 20:36:50
End at: 2018-06-05 20:37:20
Local clock offset: -2.205 ms
Remote clock offset: -1.356 ms

Below is generated by plot.py at 2018-06-05 22:46:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.97 Mbit/s
95th percentile per-packet one-way delay: 17.006 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 95.97 Mbit/s
95th percentile per-packet one-way delay: 17.006 ms
Loss rate: 0.09%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-06-05 20:55:41

End at: 2018-06-05 20:56:11

Local clock offset: 0.349 ms

Remote clock offset: 3.042 ms

Below is generated by plot.py at 2018-06-05 22:46:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.85 Mbit/s

95th percentile per-packet one-way delay: 18.423 ms

Loss rate: 0.09%

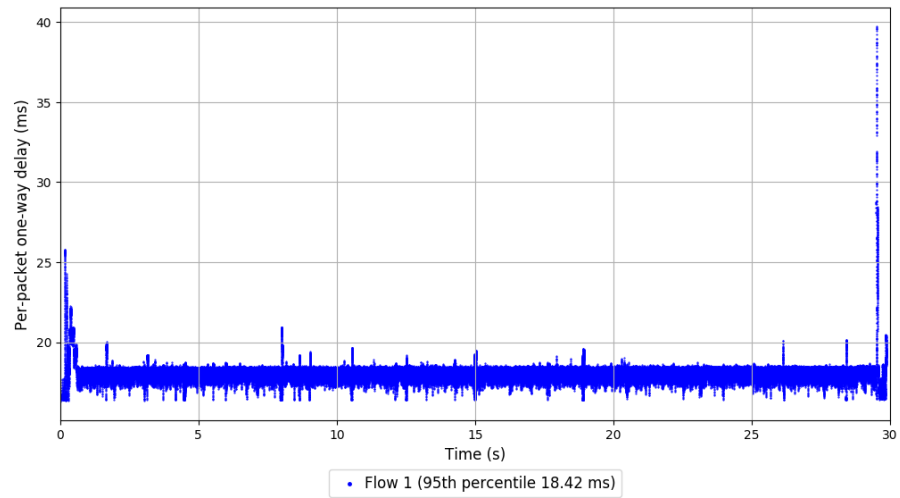
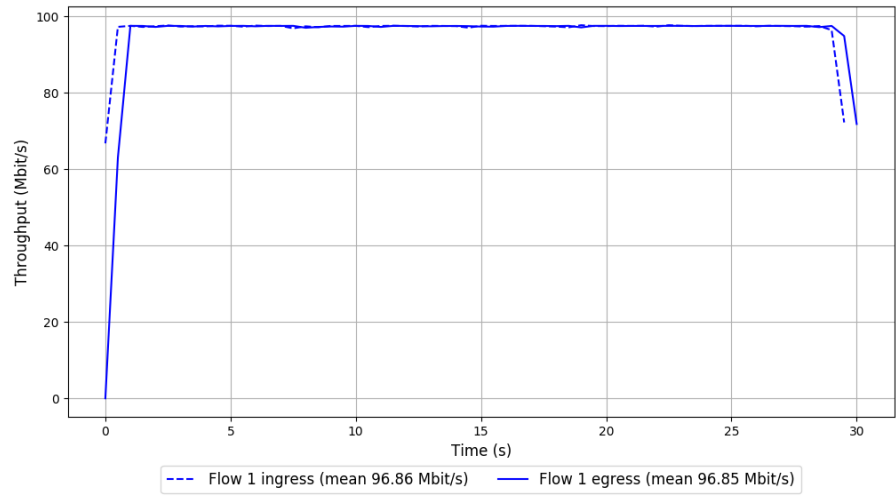
-- Flow 1:

Average throughput: 96.85 Mbit/s

95th percentile per-packet one-way delay: 18.423 ms

Loss rate: 0.09%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-06-05 21:14:00

End at: 2018-06-05 21:14:30

Local clock offset: -4.289 ms

Remote clock offset: 4.875 ms

Below is generated by plot.py at 2018-06-05 22:46:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.82 Mbit/s

95th percentile per-packet one-way delay: 15.469 ms

Loss rate: 0.09%

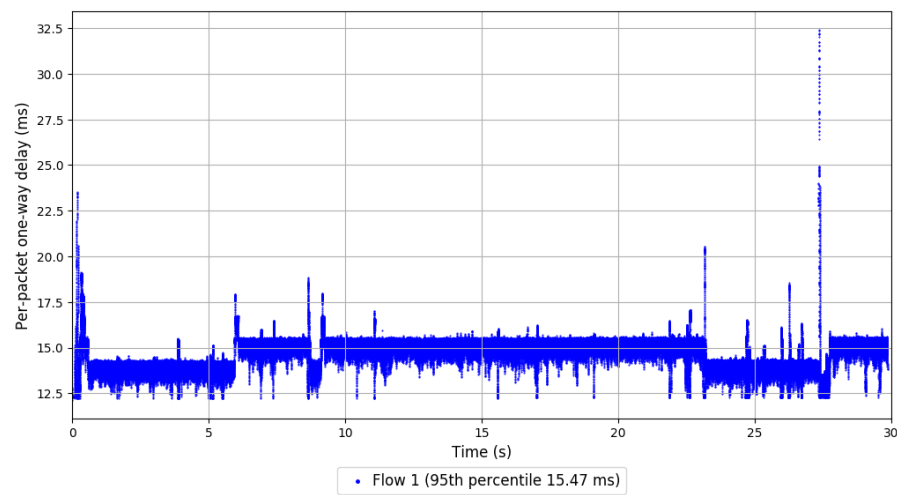
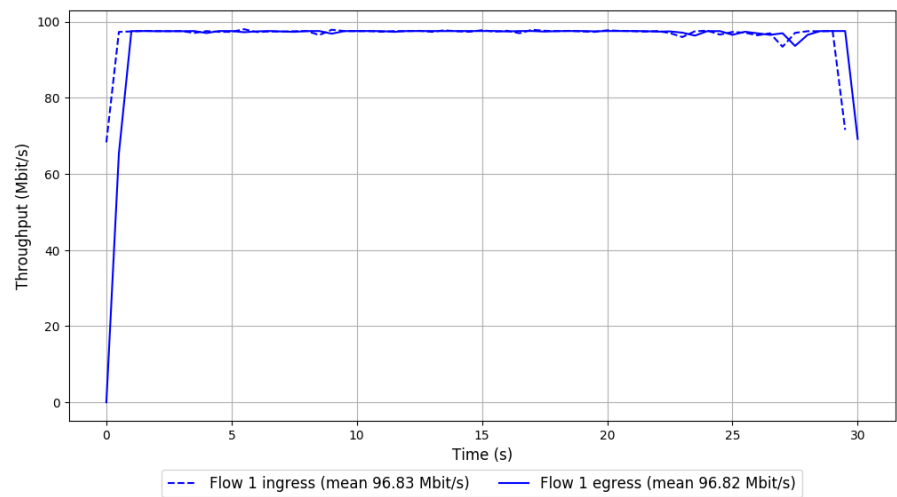
-- Flow 1:

Average throughput: 96.82 Mbit/s

95th percentile per-packet one-way delay: 15.469 ms

Loss rate: 0.09%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-06-05 21:32:39

End at: 2018-06-05 21:33:09

Local clock offset: -2.582 ms

Remote clock offset: 6.572 ms

Below is generated by plot.py at 2018-06-05 22:47:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.82 Mbit/s

95th percentile per-packet one-way delay: 16.189 ms

Loss rate: 0.08%

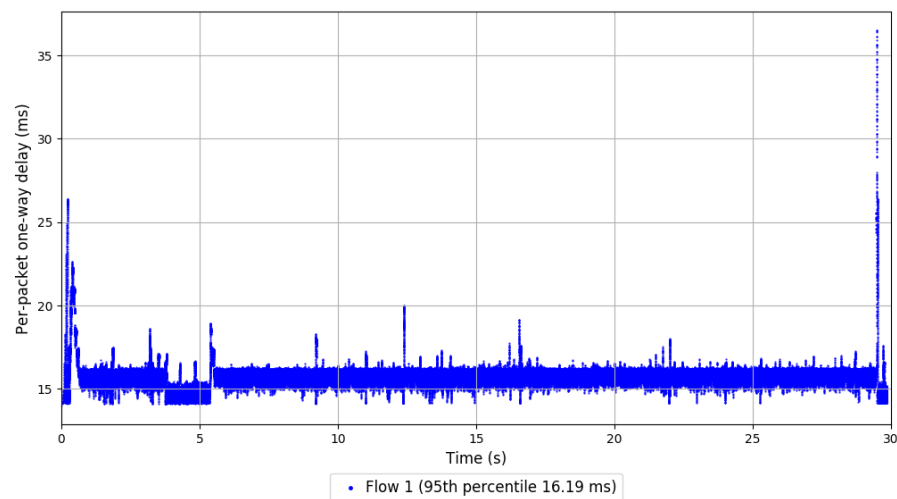
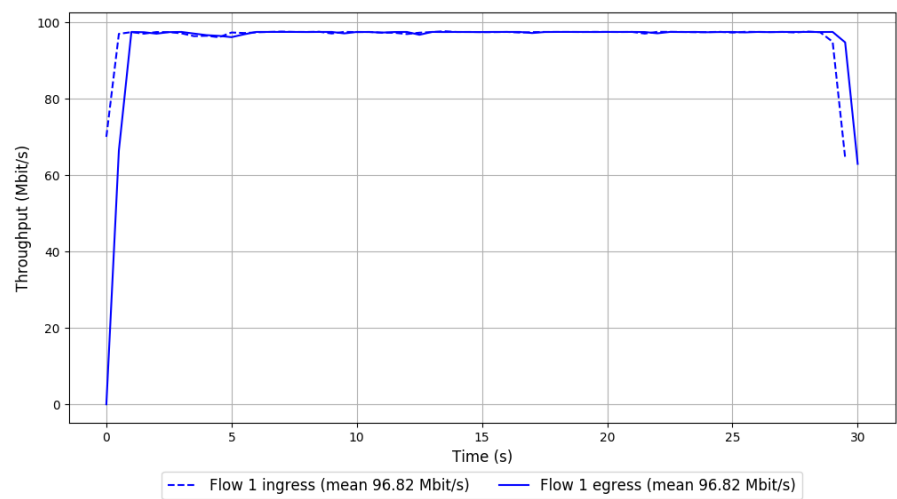
-- Flow 1:

Average throughput: 96.82 Mbit/s

95th percentile per-packet one-way delay: 16.189 ms

Loss rate: 0.08%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-06-05 21:51:20

End at: 2018-06-05 21:51:50

Local clock offset: 0.367 ms

Remote clock offset: 5.405 ms

Below is generated by plot.py at 2018-06-05 22:47:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.70 Mbit/s

95th percentile per-packet one-way delay: 18.871 ms

Loss rate: 0.09%

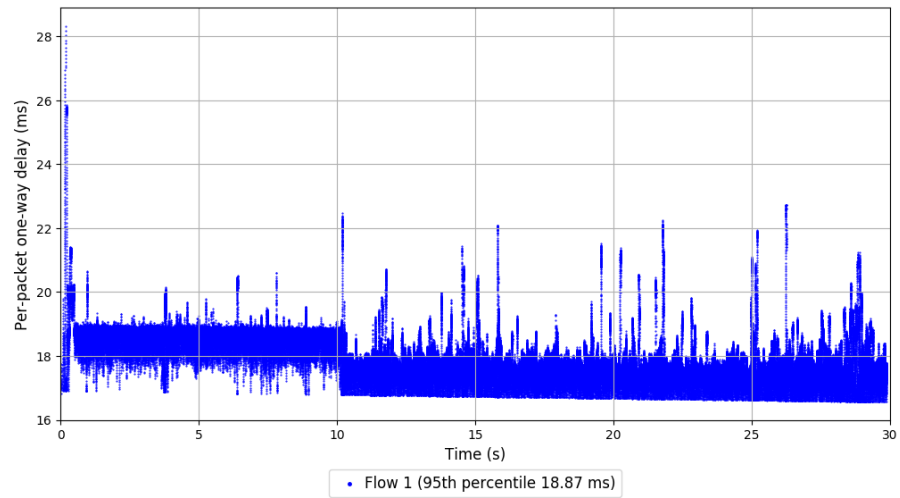
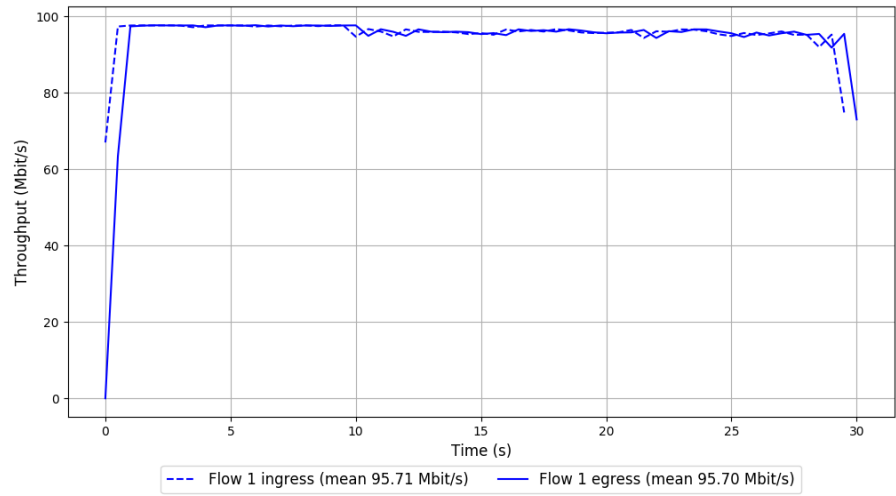
-- Flow 1:

Average throughput: 95.70 Mbit/s

95th percentile per-packet one-way delay: 18.871 ms

Loss rate: 0.09%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-06-05 22:09:39

End at: 2018-06-05 22:10:09

Local clock offset: 0.764 ms

Remote clock offset: -0.402 ms

Below is generated by plot.py at 2018-06-05 22:47:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.88 Mbit/s

95th percentile per-packet one-way delay: 20.086 ms

Loss rate: 0.09%

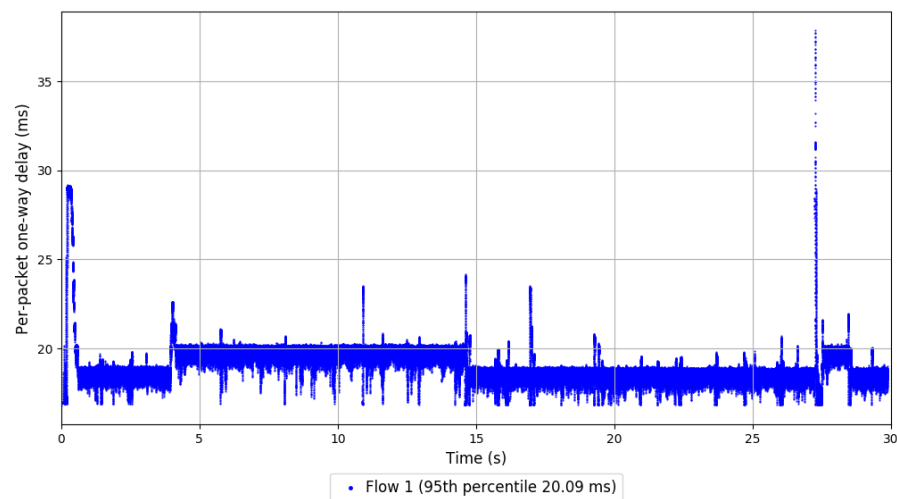
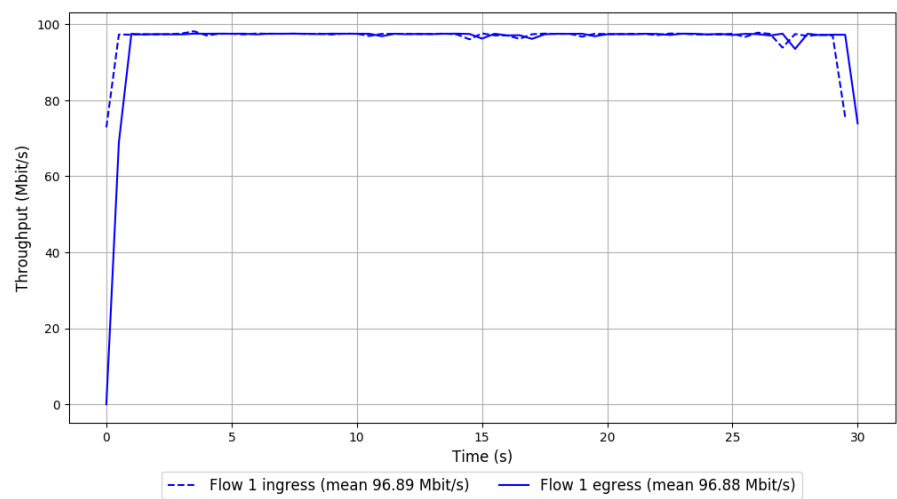
-- Flow 1:

Average throughput: 96.88 Mbit/s

95th percentile per-packet one-way delay: 20.086 ms

Loss rate: 0.09%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-06-05 22:28:03

End at: 2018-06-05 22:28:33

Local clock offset: 1.289 ms

Remote clock offset: -5.557 ms

Below is generated by plot.py at 2018-06-05 22:47:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.67 Mbit/s

95th percentile per-packet one-way delay: 18.731 ms

Loss rate: 0.09%

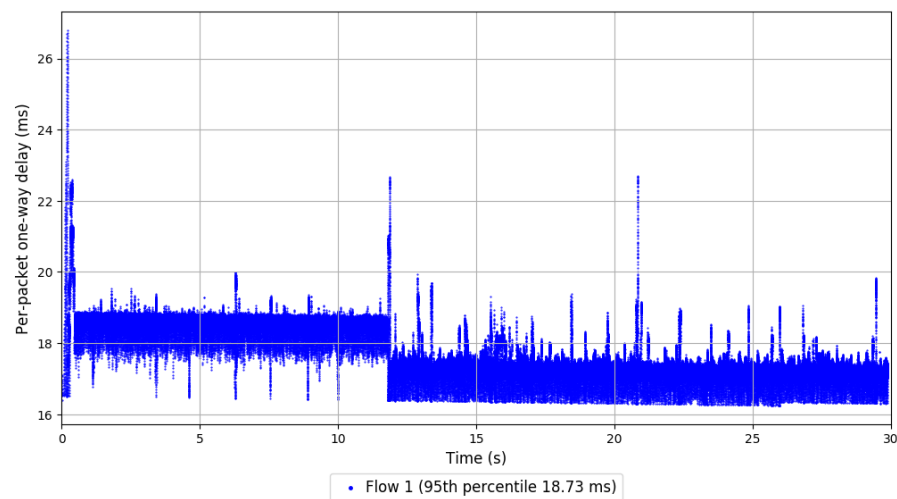
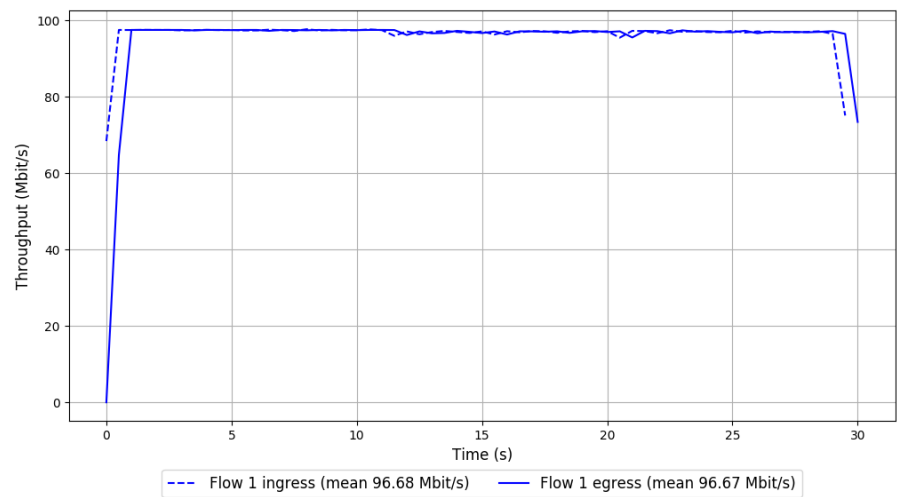
-- Flow 1:

Average throughput: 96.67 Mbit/s

95th percentile per-packet one-way delay: 18.731 ms

Loss rate: 0.09%

Run 10: Report of Indigo — Data Link

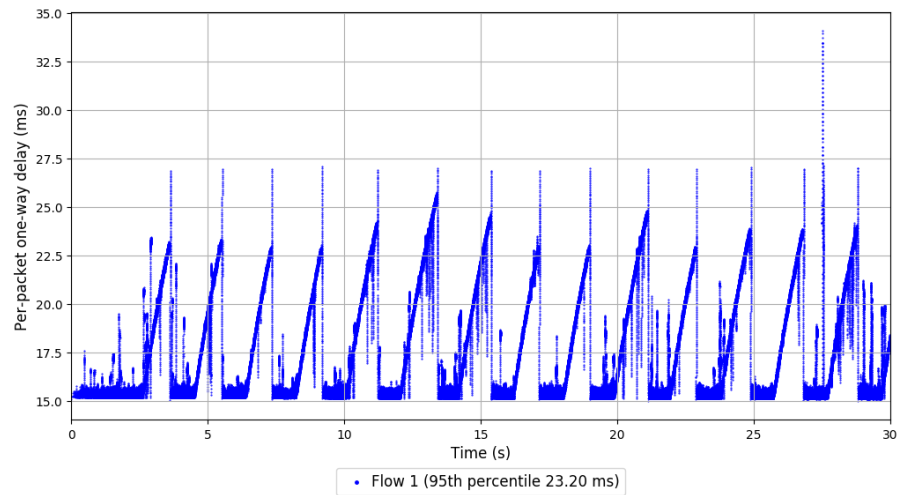
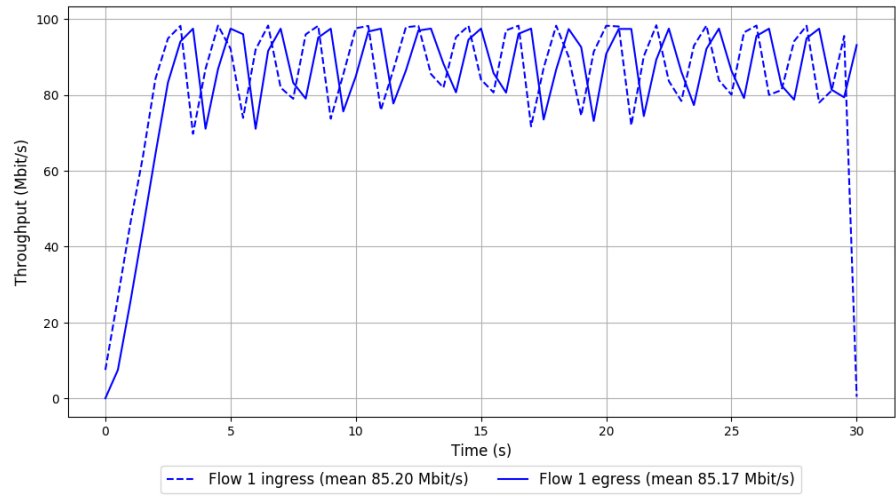


```
Run 1: Statistics of LEDBAT

Start at: 2018-06-05 19:30:31
End at: 2018-06-05 19:31:02
Local clock offset: 0.439 ms
Remote clock offset: -13.299 ms

# Below is generated by plot.py at 2018-06-05 22:47:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.17 Mbit/s
95th percentile per-packet one-way delay: 23.204 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 85.17 Mbit/s
95th percentile per-packet one-way delay: 23.204 ms
Loss rate: 0.11%
```

Run 1: Report of LEDBAT — Data Link

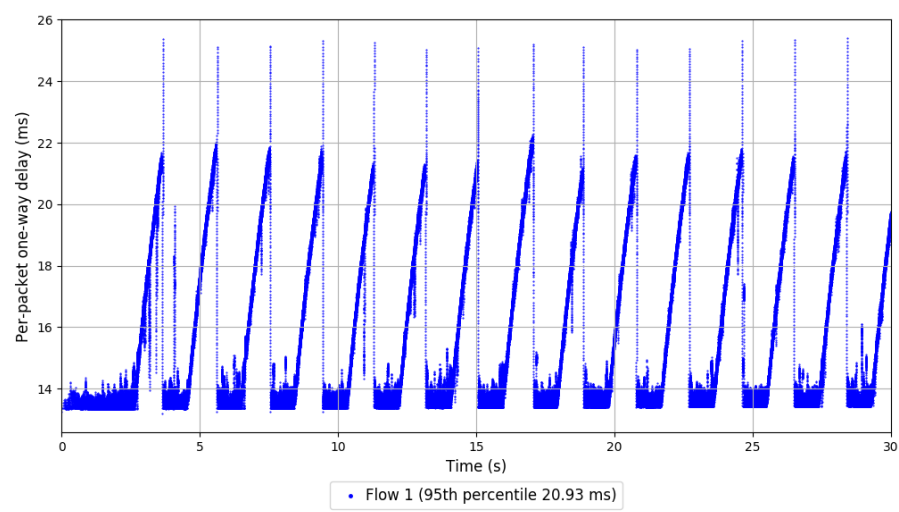
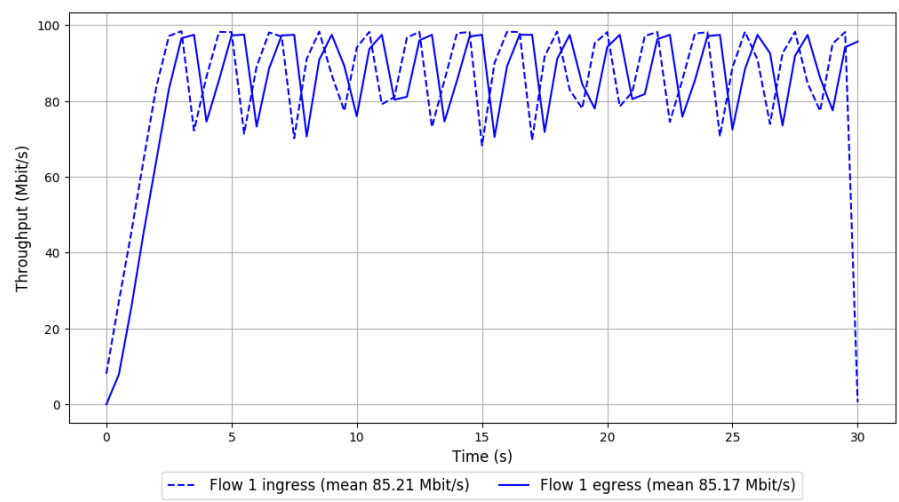


Run 2: Statistics of LEDBAT

Start at: 2018-06-05 19:49:15
End at: 2018-06-05 19:49:45
Local clock offset: -0.817 ms
Remote clock offset: -2.613 ms

Below is generated by plot.py at 2018-06-05 22:47:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 85.17 Mbit/s
95th percentile per-packet one-way delay: 20.933 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 85.17 Mbit/s
95th percentile per-packet one-way delay: 20.933 ms
Loss rate: 0.13%

Run 2: Report of LEDBAT — Data Link

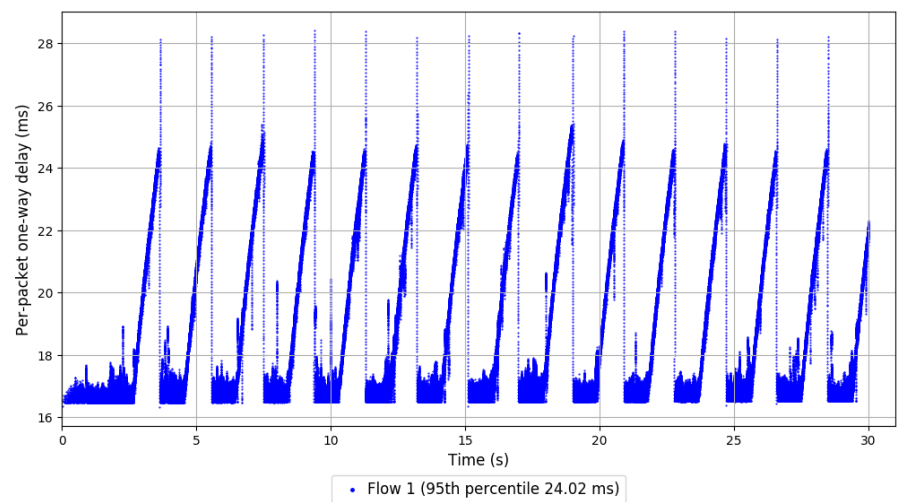
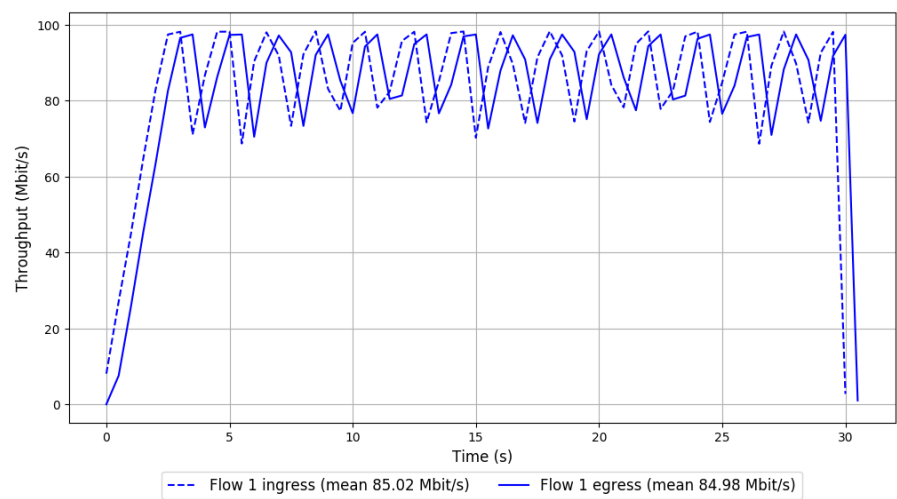


Run 3: Statistics of LEDBAT

Start at: 2018-06-05 20:07:45
End at: 2018-06-05 20:08:15
Local clock offset: 1.901 ms
Remote clock offset: -0.538 ms

Below is generated by plot.py at 2018-06-05 22:47:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.98 Mbit/s
95th percentile per-packet one-way delay: 24.021 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 84.98 Mbit/s
95th percentile per-packet one-way delay: 24.021 ms
Loss rate: 0.12%

Run 3: Report of LEDBAT — Data Link

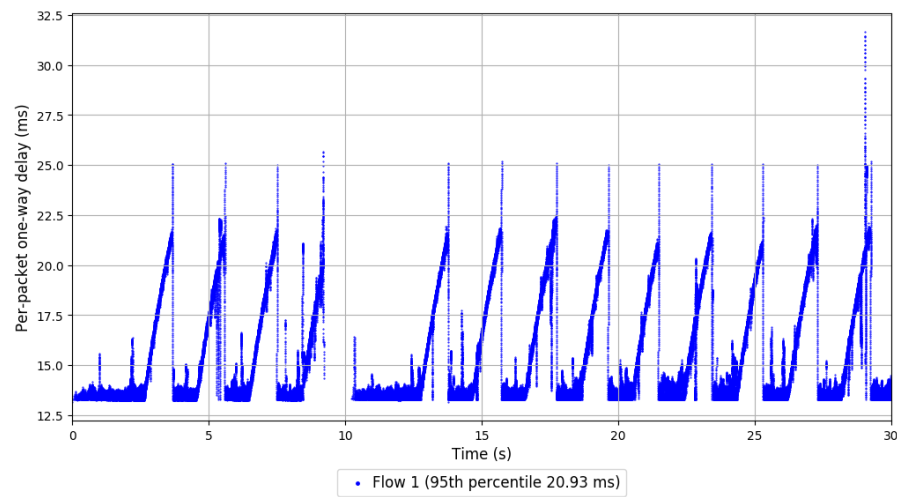
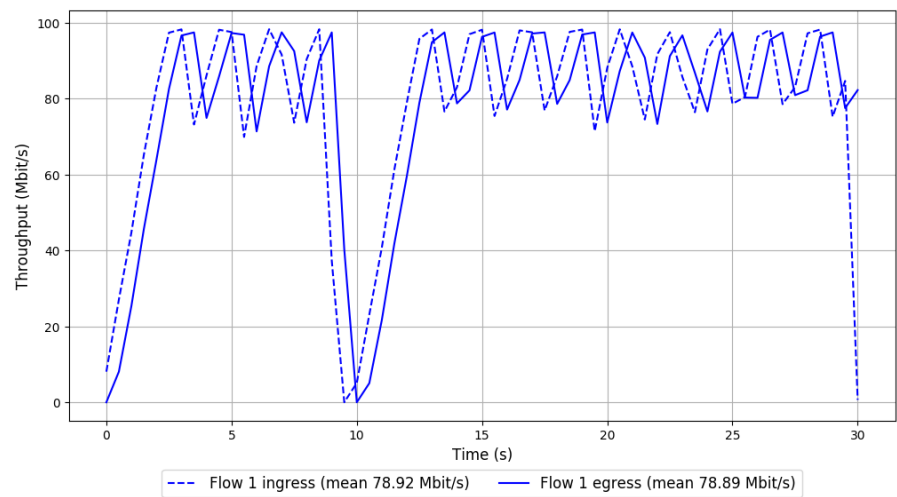


Run 4: Statistics of LEDBAT

Start at: 2018-06-05 20:26:14
End at: 2018-06-05 20:26:44
Local clock offset: -2.444 ms
Remote clock offset: -0.206 ms

Below is generated by plot.py at 2018-06-05 22:47:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 78.89 Mbit/s
95th percentile per-packet one-way delay: 20.932 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 78.89 Mbit/s
95th percentile per-packet one-way delay: 20.932 ms
Loss rate: 0.12%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-06-05 20:44:59

End at: 2018-06-05 20:45:29

Local clock offset: -2.367 ms

Remote clock offset: 0.982 ms

Below is generated by plot.py at 2018-06-05 22:48:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.13 Mbit/s

95th percentile per-packet one-way delay: 21.489 ms

Loss rate: 0.08%

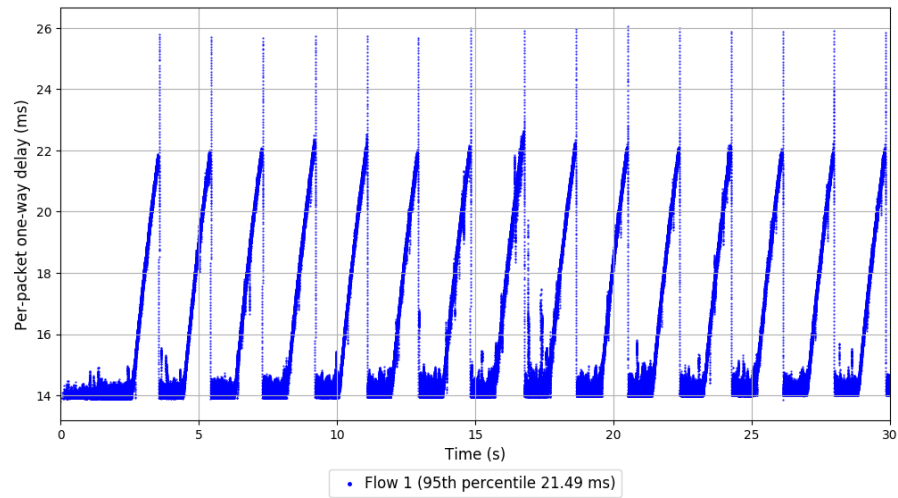
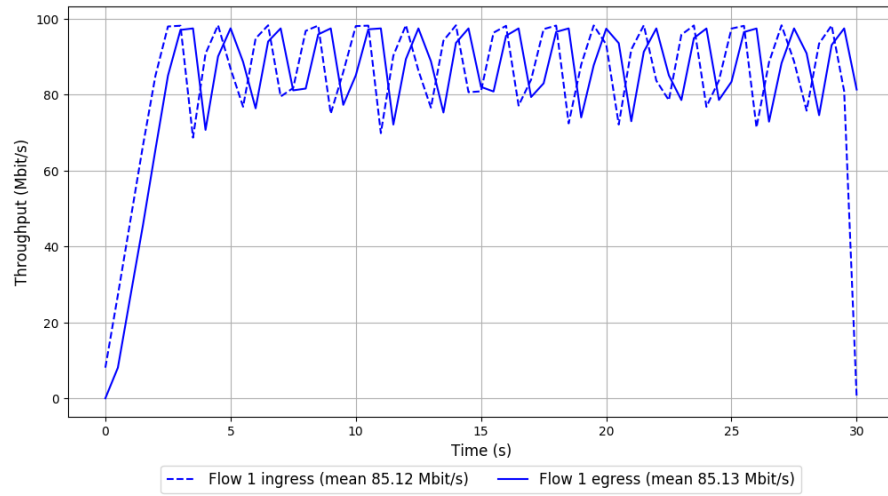
-- Flow 1:

Average throughput: 85.13 Mbit/s

95th percentile per-packet one-way delay: 21.489 ms

Loss rate: 0.08%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-06-05 21:03:36

End at: 2018-06-05 21:04:06

Local clock offset: 0.187 ms

Remote clock offset: 3.812 ms

Below is generated by plot.py at 2018-06-05 22:48:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.08 Mbit/s

95th percentile per-packet one-way delay: 24.020 ms

Loss rate: 0.08%

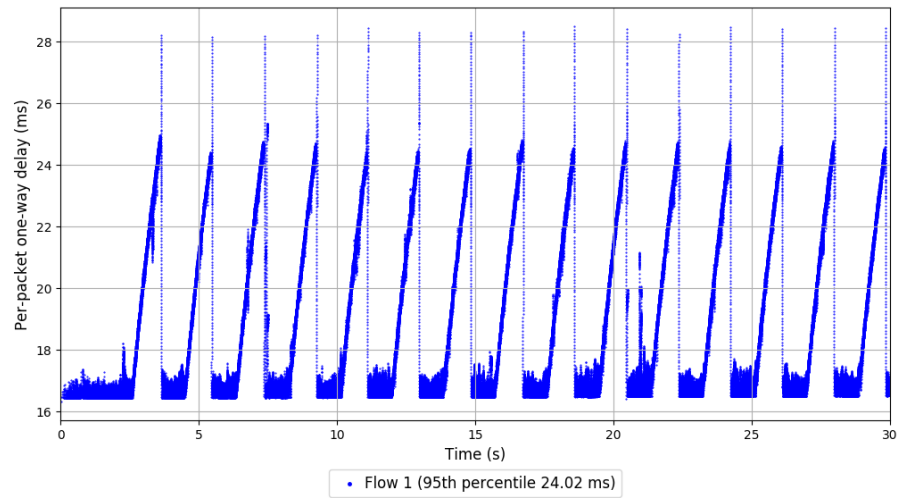
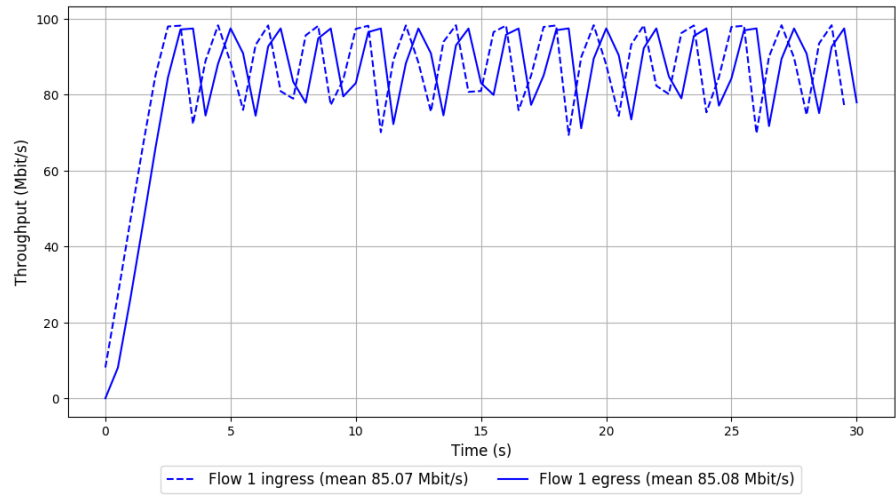
-- Flow 1:

Average throughput: 85.08 Mbit/s

95th percentile per-packet one-way delay: 24.020 ms

Loss rate: 0.08%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-06-05 21:21:59

End at: 2018-06-05 21:22:29

Local clock offset: -1.79 ms

Remote clock offset: 6.669 ms

Below is generated by plot.py at 2018-06-05 22:48:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.06 Mbit/s

95th percentile per-packet one-way delay: 22.024 ms

Loss rate: 0.08%

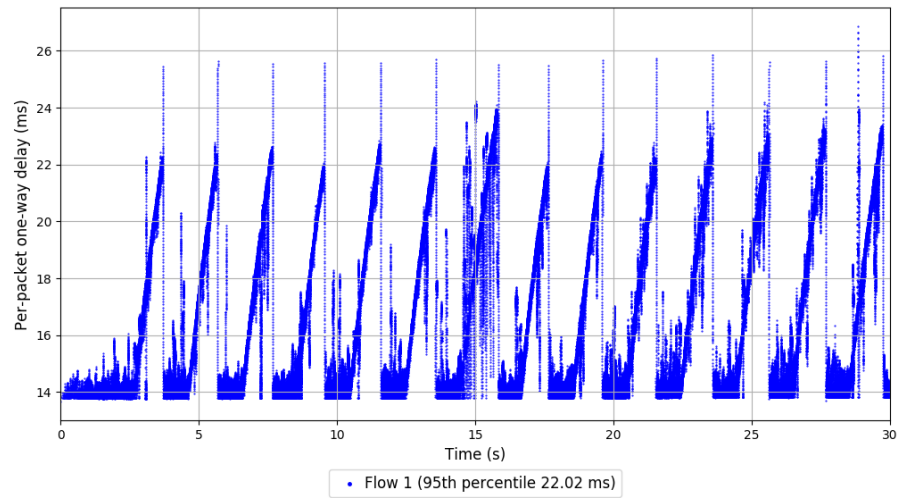
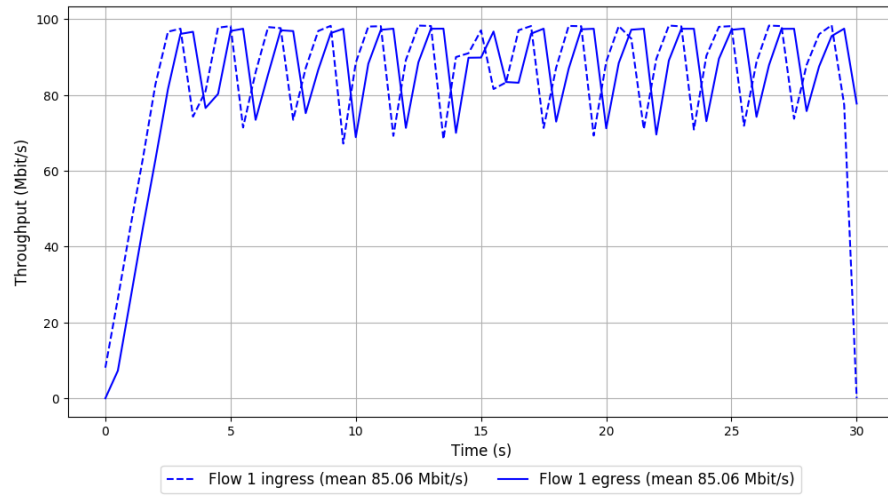
-- Flow 1:

Average throughput: 85.06 Mbit/s

95th percentile per-packet one-way delay: 22.024 ms

Loss rate: 0.08%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-06-05 21:40:43

End at: 2018-06-05 21:41:13

Local clock offset: -0.087 ms

Remote clock offset: 7.726 ms

Below is generated by plot.py at 2018-06-05 22:48:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.96 Mbit/s

95th percentile per-packet one-way delay: 23.808 ms

Loss rate: 0.12%

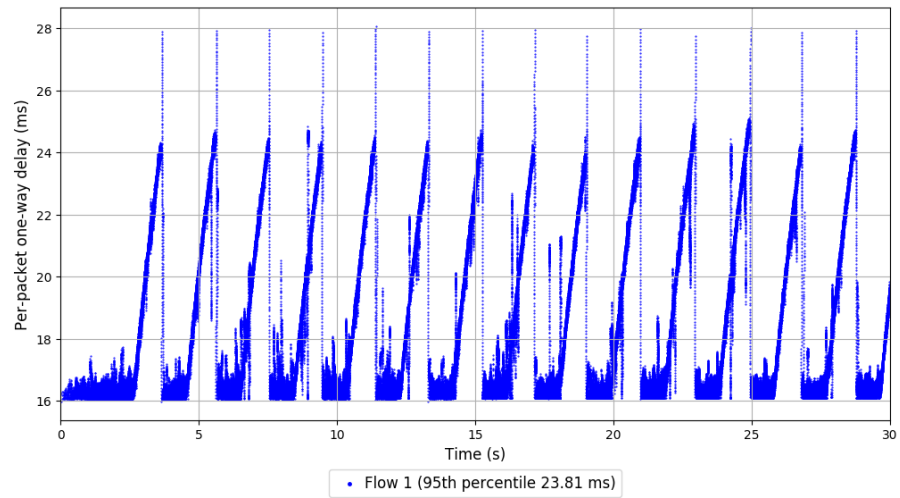
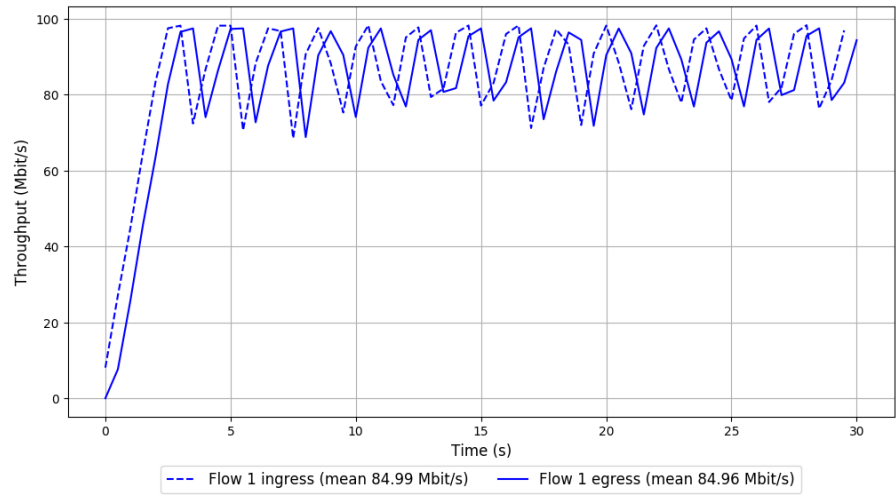
-- Flow 1:

Average throughput: 84.96 Mbit/s

95th percentile per-packet one-way delay: 23.808 ms

Loss rate: 0.12%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-06-05 21:59:17

End at: 2018-06-05 21:59:47

Local clock offset: -0.801 ms

Remote clock offset: 1.888 ms

Below is generated by plot.py at 2018-06-05 22:48:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.01 Mbit/s

95th percentile per-packet one-way delay: 22.889 ms

Loss rate: 0.08%

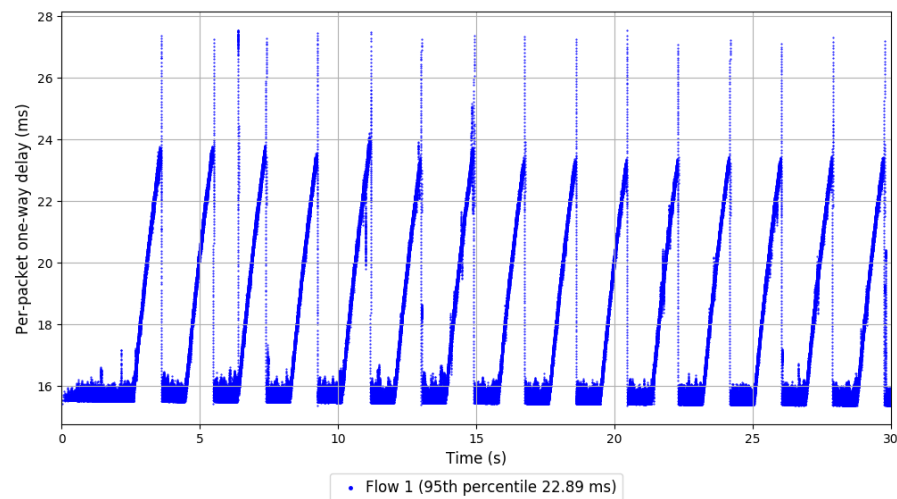
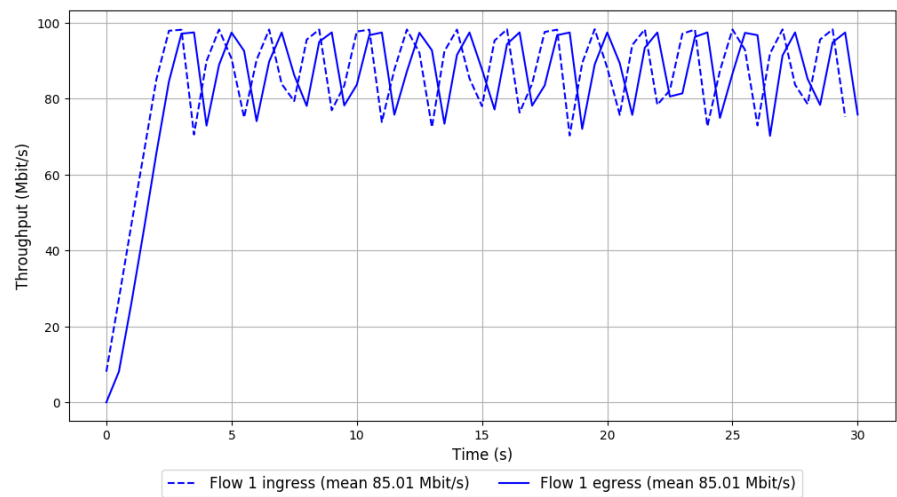
-- Flow 1:

Average throughput: 85.01 Mbit/s

95th percentile per-packet one-way delay: 22.889 ms

Loss rate: 0.08%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-06-05 22:17:38

End at: 2018-06-05 22:18:08

Local clock offset: 0.496 ms

Remote clock offset: -0.664 ms

Below is generated by plot.py at 2018-06-05 22:48:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.91 Mbit/s

95th percentile per-packet one-way delay: 23.154 ms

Loss rate: 0.08%

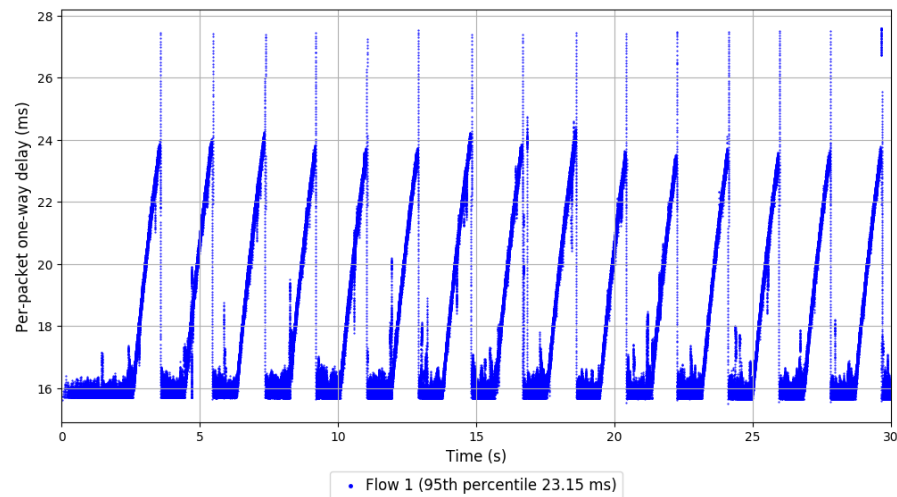
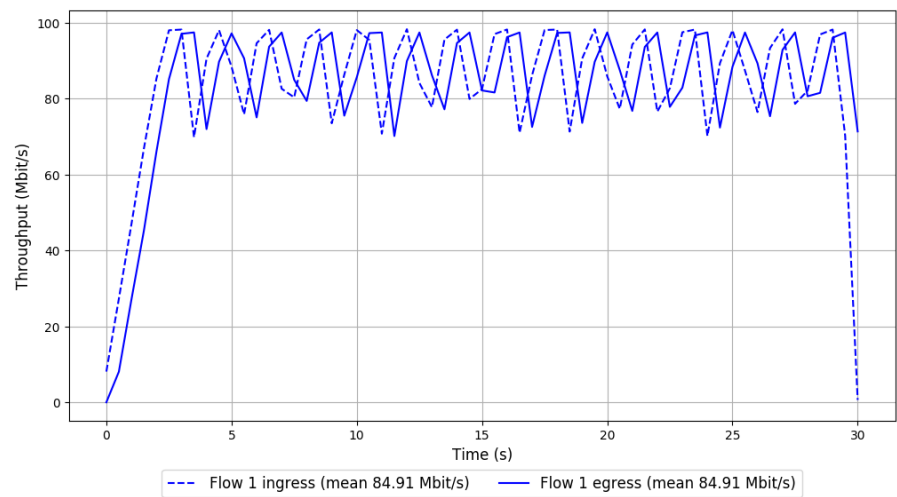
-- Flow 1:

Average throughput: 84.91 Mbit/s

95th percentile per-packet one-way delay: 23.154 ms

Loss rate: 0.08%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-06-05 19:45:51

End at: 2018-06-05 19:46:21

Local clock offset: 0.575 ms

Remote clock offset: -3.62 ms

Below is generated by plot.py at 2018-06-05 22:48:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.58 Mbit/s

95th percentile per-packet one-way delay: 16.312 ms

Loss rate: 0.09%

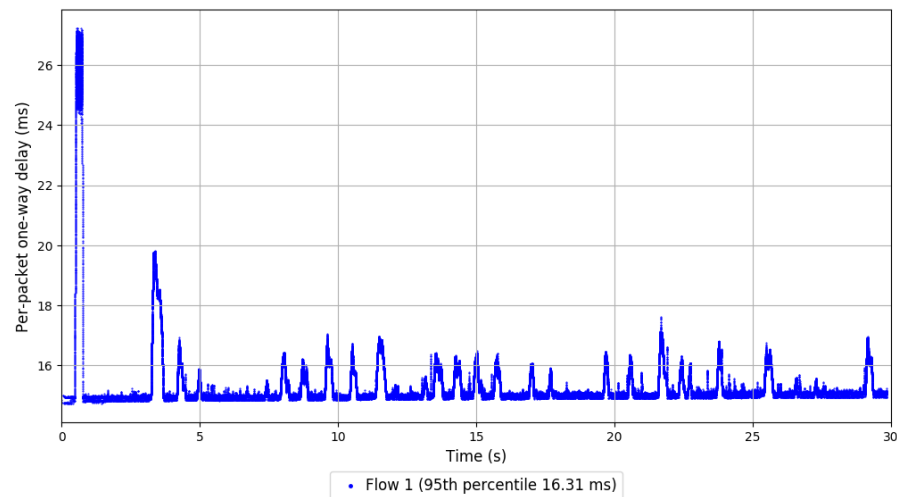
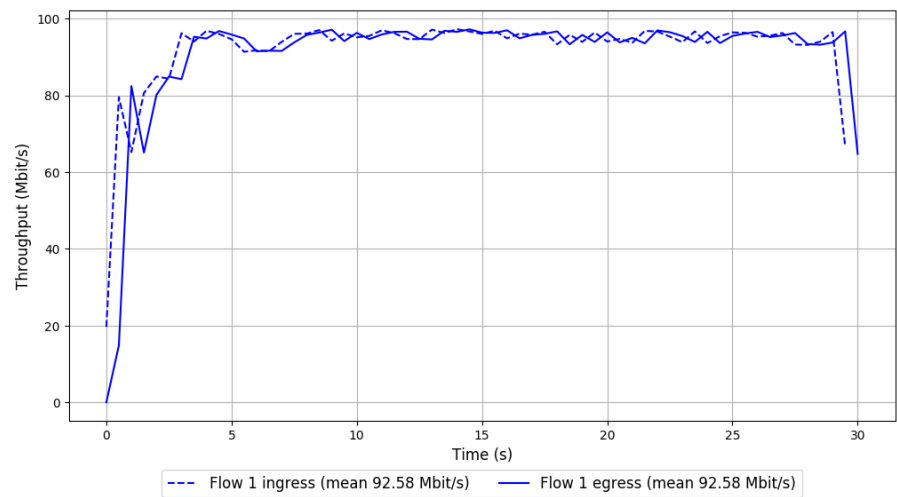
-- Flow 1:

Average throughput: 92.58 Mbit/s

95th percentile per-packet one-way delay: 16.312 ms

Loss rate: 0.09%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-06-05 20:04:21

End at: 2018-06-05 20:04:51

Local clock offset: 2.536 ms

Remote clock offset: -1.865 ms

Below is generated by plot.py at 2018-06-05 22:48:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.76 Mbit/s

95th percentile per-packet one-way delay: 20.852 ms

Loss rate: 0.09%

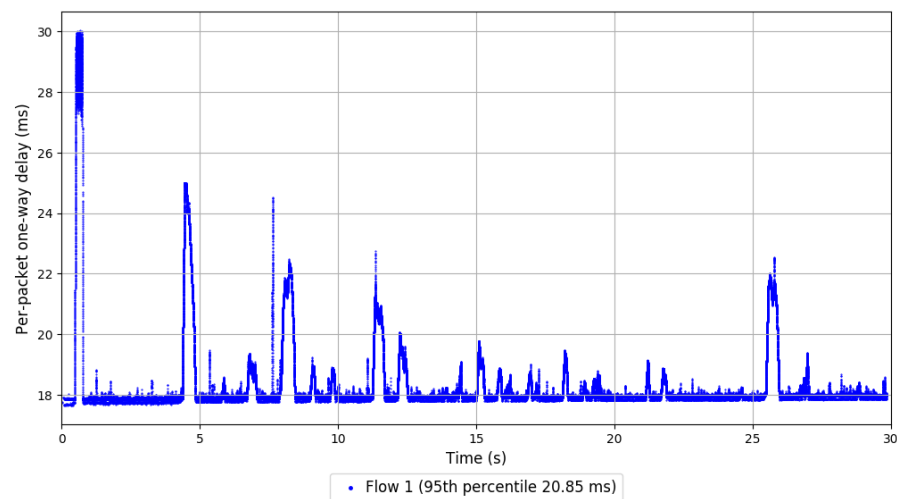
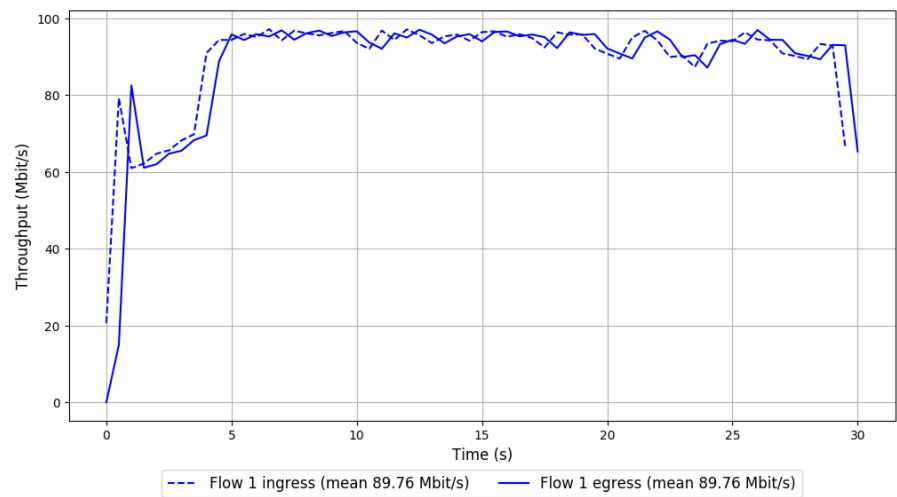
-- Flow 1:

Average throughput: 89.76 Mbit/s

95th percentile per-packet one-way delay: 20.852 ms

Loss rate: 0.09%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-06-05 20:22:48

End at: 2018-06-05 20:23:18

Local clock offset: -2.439 ms

Remote clock offset: -0.411 ms

Below is generated by plot.py at 2018-06-05 22:49:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.95 Mbit/s

95th percentile per-packet one-way delay: 15.510 ms

Loss rate: 0.09%

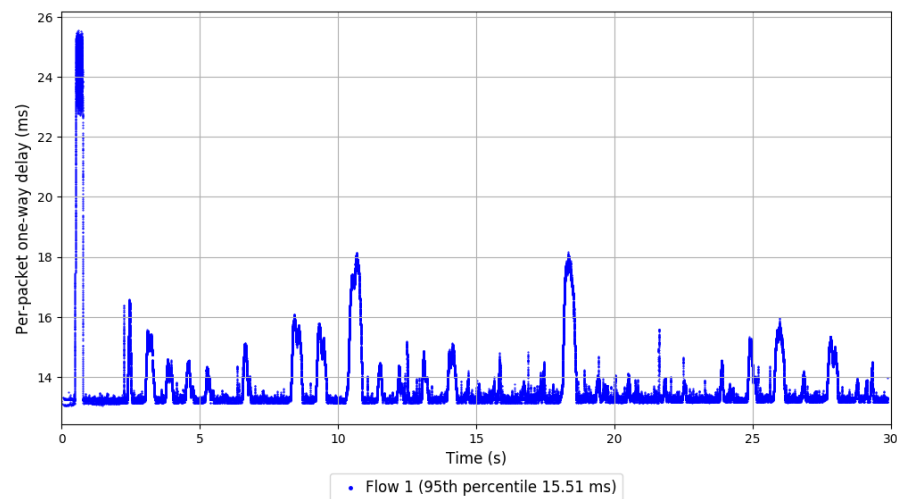
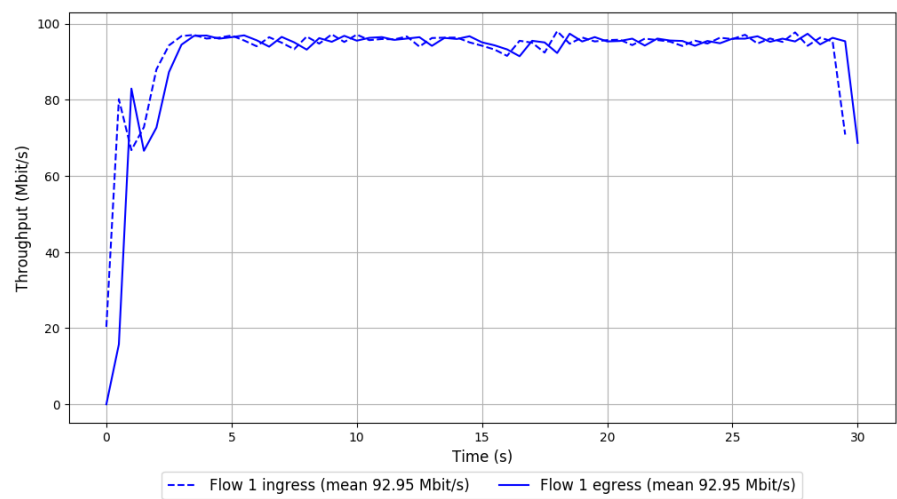
-- Flow 1:

Average throughput: 92.95 Mbit/s

95th percentile per-packet one-way delay: 15.510 ms

Loss rate: 0.09%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-06-05 20:41:28

End at: 2018-06-05 20:41:58

Local clock offset: -2.313 ms

Remote clock offset: 0.226 ms

Below is generated by plot.py at 2018-06-05 22:49:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.66 Mbit/s

95th percentile per-packet one-way delay: 16.321 ms

Loss rate: 0.09%

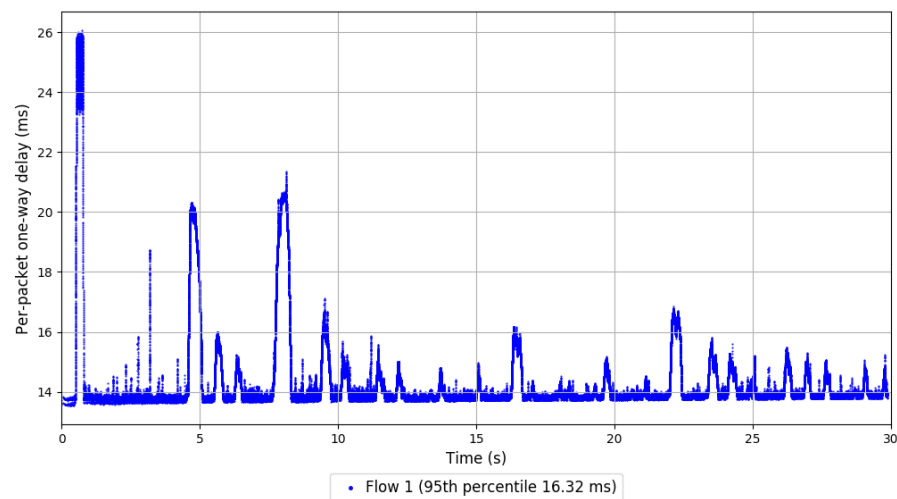
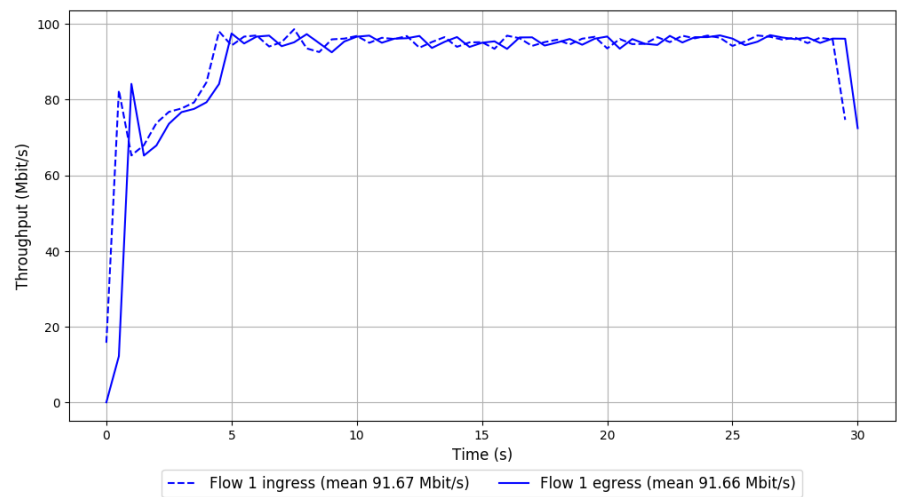
-- Flow 1:

Average throughput: 91.66 Mbit/s

95th percentile per-packet one-way delay: 16.321 ms

Loss rate: 0.09%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-06-05 21:00:13

End at: 2018-06-05 21:00:43

Local clock offset: -0.432 ms

Remote clock offset: 3.287 ms

Below is generated by plot.py at 2018-06-05 22:49:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.29 Mbit/s

95th percentile per-packet one-way delay: 18.909 ms

Loss rate: 0.09%

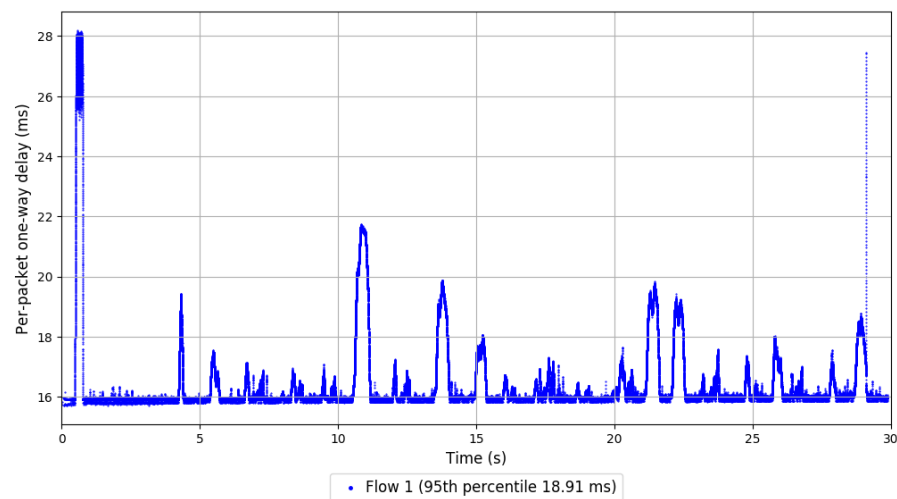
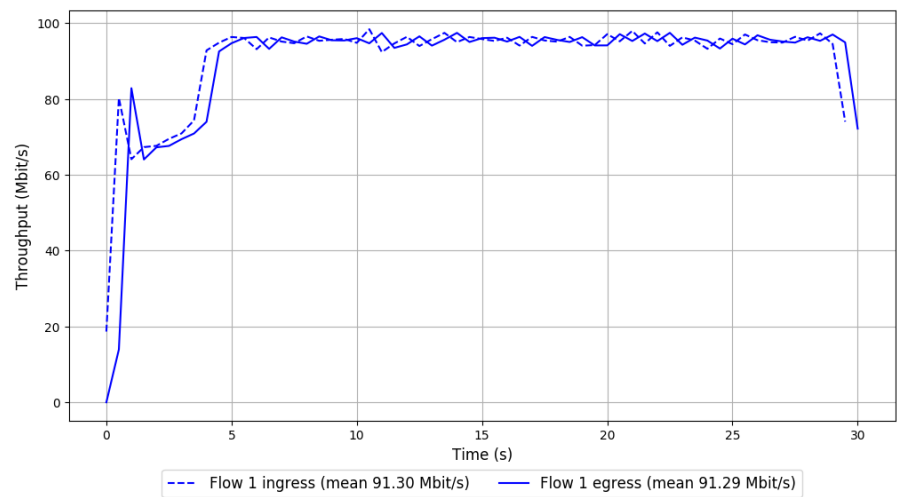
-- Flow 1:

Average throughput: 91.29 Mbit/s

95th percentile per-packet one-way delay: 18.909 ms

Loss rate: 0.09%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-06-05 21:18:36

End at: 2018-06-05 21:19:06

Local clock offset: 1.518 ms

Remote clock offset: 4.947 ms

Below is generated by plot.py at 2018-06-05 22:49:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.41 Mbit/s

95th percentile per-packet one-way delay: 21.485 ms

Loss rate: 0.09%

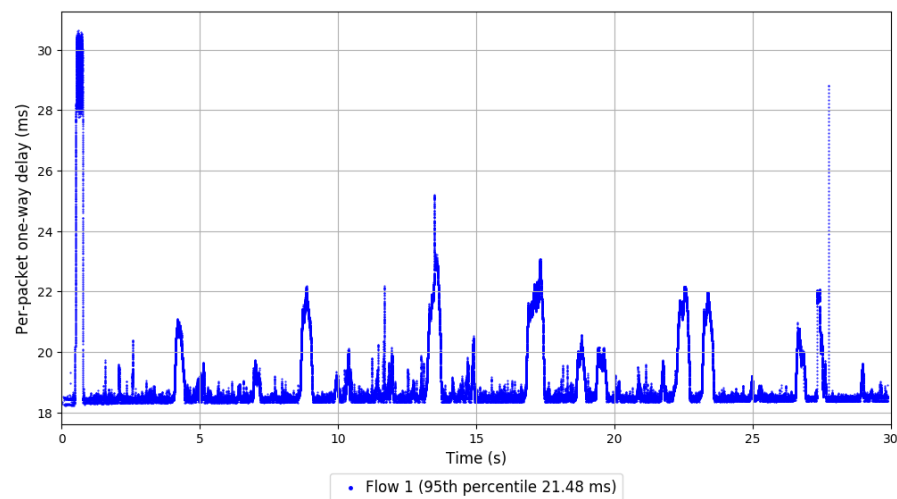
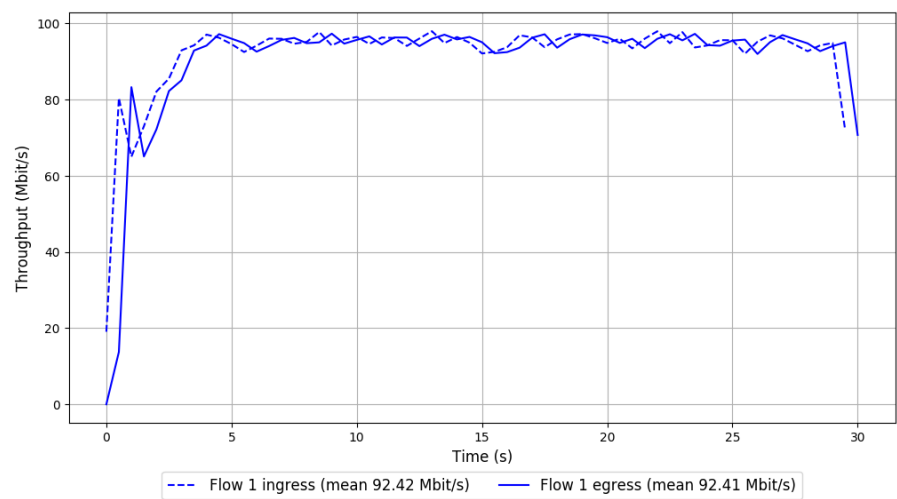
-- Flow 1:

Average throughput: 92.41 Mbit/s

95th percentile per-packet one-way delay: 21.485 ms

Loss rate: 0.09%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-06-05 21:37:18

End at: 2018-06-05 21:37:48

Local clock offset: 0.118 ms

Remote clock offset: 7.059 ms

Below is generated by plot.py at 2018-06-05 22:49:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.45 Mbit/s

95th percentile per-packet one-way delay: 19.224 ms

Loss rate: 0.08%

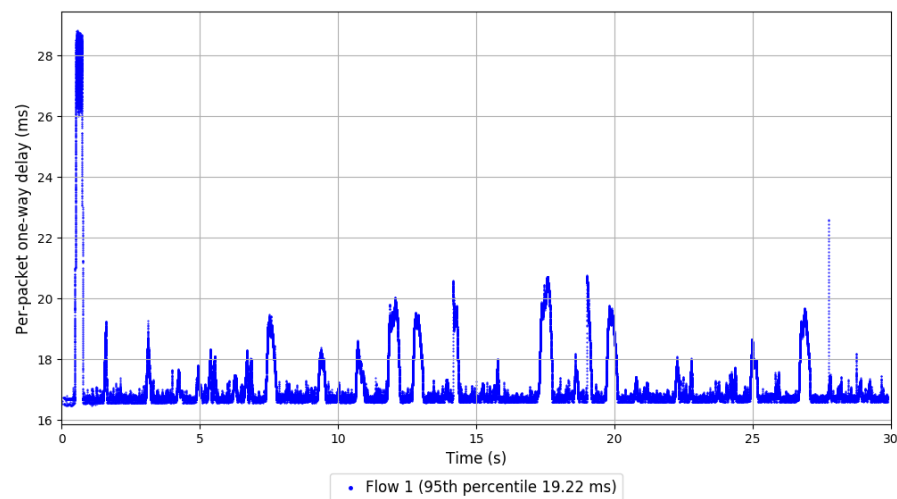
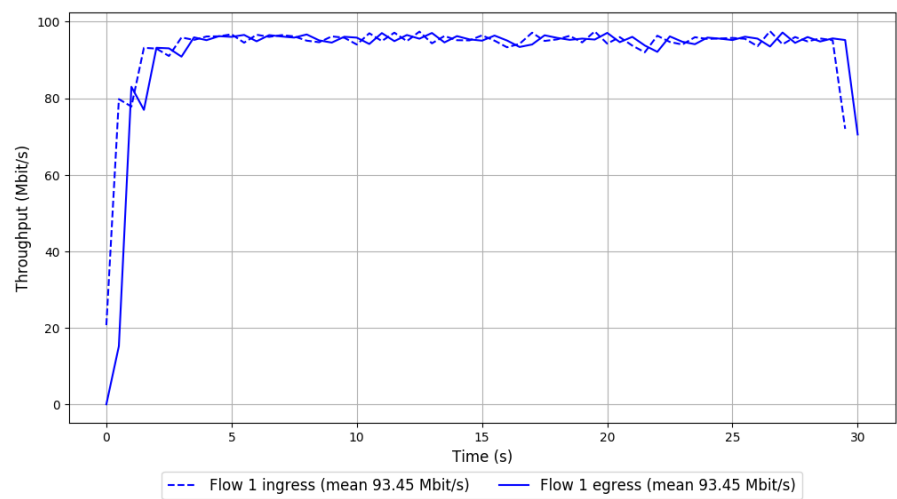
-- Flow 1:

Average throughput: 93.45 Mbit/s

95th percentile per-packet one-way delay: 19.224 ms

Loss rate: 0.08%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-06-05 21:55:55

End at: 2018-06-05 21:56:25

Local clock offset: -2.217 ms

Remote clock offset: 2.787 ms

Below is generated by plot.py at 2018-06-05 22:49:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.03 Mbit/s

95th percentile per-packet one-way delay: 17.174 ms

Loss rate: 0.08%

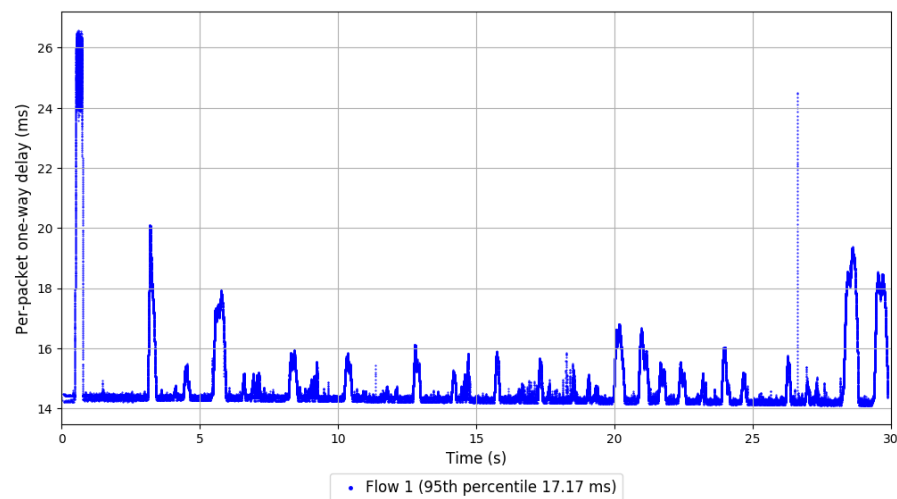
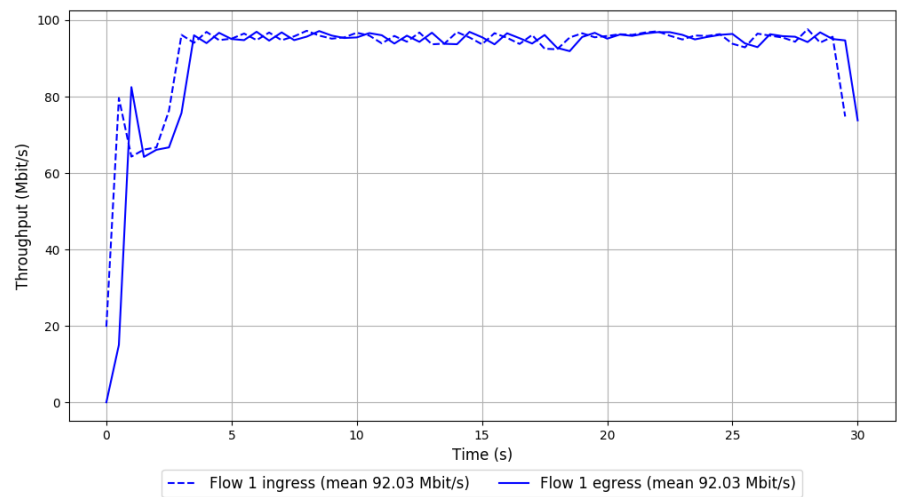
-- Flow 1:

Average throughput: 92.03 Mbit/s

95th percentile per-packet one-way delay: 17.174 ms

Loss rate: 0.08%

Run 8: Report of PCC-Allegro — Data Link

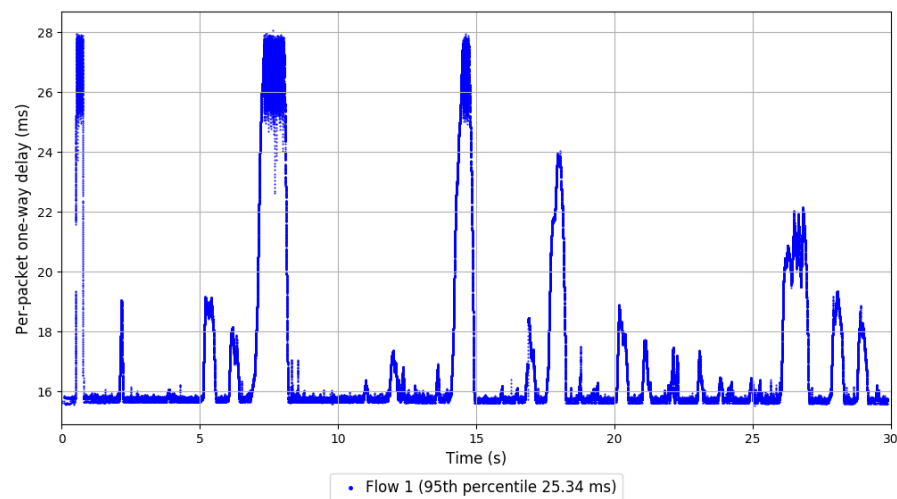
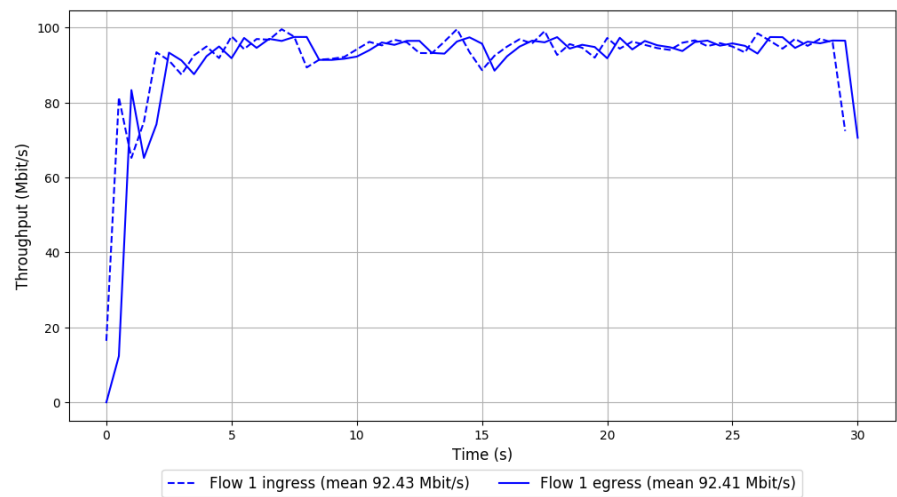


Run 9: Statistics of PCC-Allegro

Start at: 2018-06-05 22:14:16
End at: 2018-06-05 22:14:46
Local clock offset: -0.369 ms
Remote clock offset: -1.113 ms

Below is generated by plot.py at 2018-06-05 22:50:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.41 Mbit/s
95th percentile per-packet one-way delay: 25.344 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 92.41 Mbit/s
95th percentile per-packet one-way delay: 25.344 ms
Loss rate: 0.10%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-06-05 22:32:39

End at: 2018-06-05 22:33:09

Local clock offset: 1.63 ms

Remote clock offset: -7.965 ms

Below is generated by plot.py at 2018-06-05 22:50:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.82 Mbit/s

95th percentile per-packet one-way delay: 19.932 ms

Loss rate: 0.09%

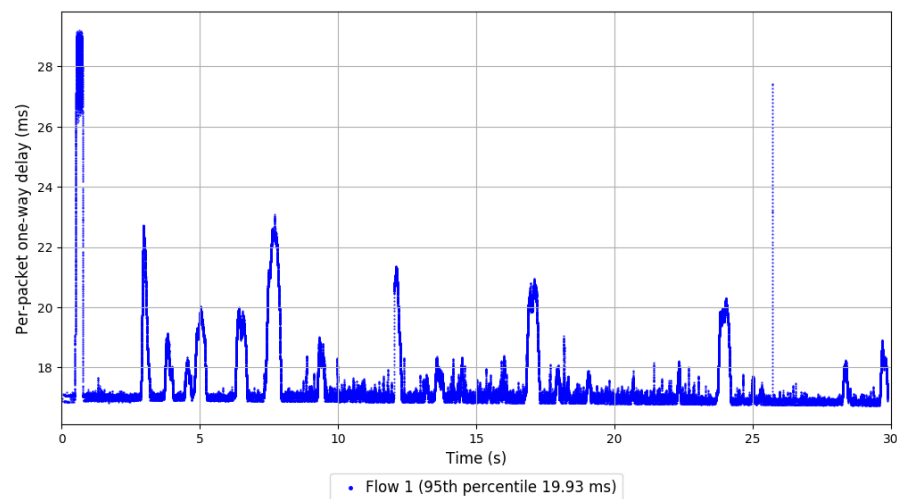
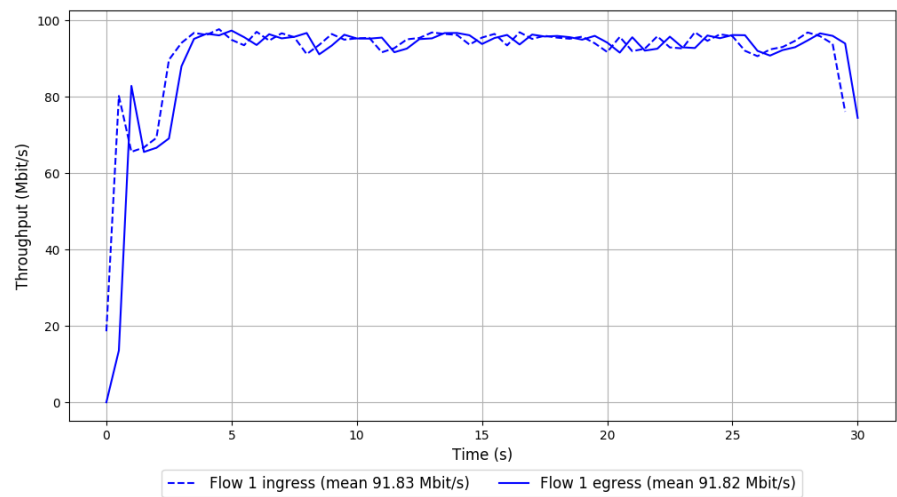
-- Flow 1:

Average throughput: 91.82 Mbit/s

95th percentile per-packet one-way delay: 19.932 ms

Loss rate: 0.09%

Run 10: Report of PCC-Allegro — Data Link

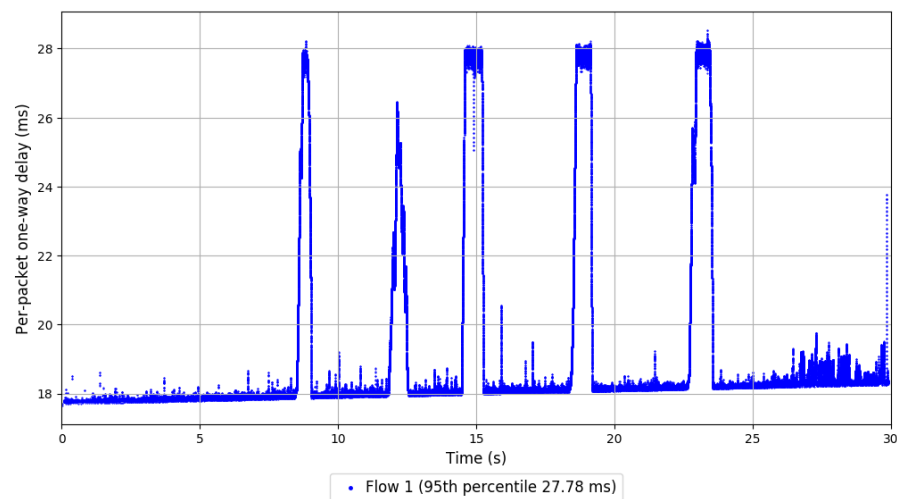
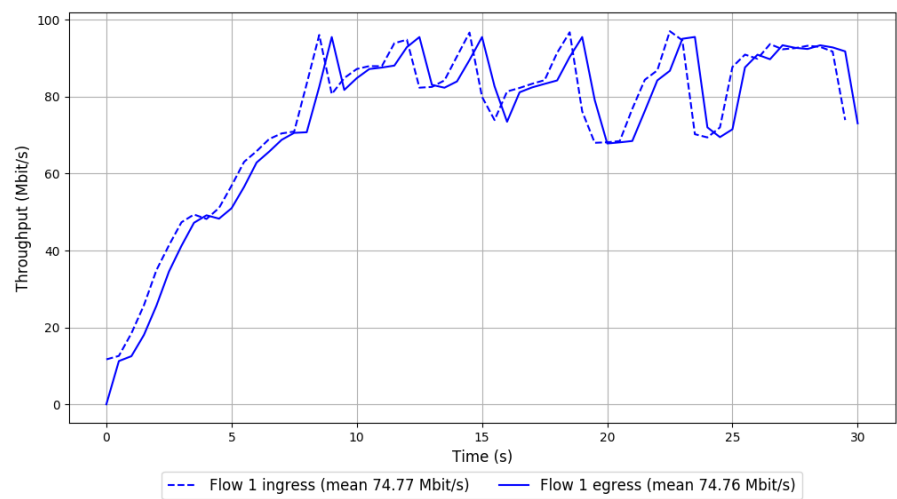


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-05 19:32:52
End at: 2018-06-05 19:33:22
Local clock offset: 1.909 ms
Remote clock offset: -13.088 ms

# Below is generated by plot.py at 2018-06-05 22:51:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.76 Mbit/s
95th percentile per-packet one-way delay: 27.784 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 74.76 Mbit/s
95th percentile per-packet one-way delay: 27.784 ms
Loss rate: 0.10%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-06-05 19:51:34

End at: 2018-06-05 19:52:04

Local clock offset: -1.055 ms

Remote clock offset: -3.588 ms

Below is generated by plot.py at 2018-06-05 22:51:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.29 Mbit/s

95th percentile per-packet one-way delay: 24.386 ms

Loss rate: 0.10%

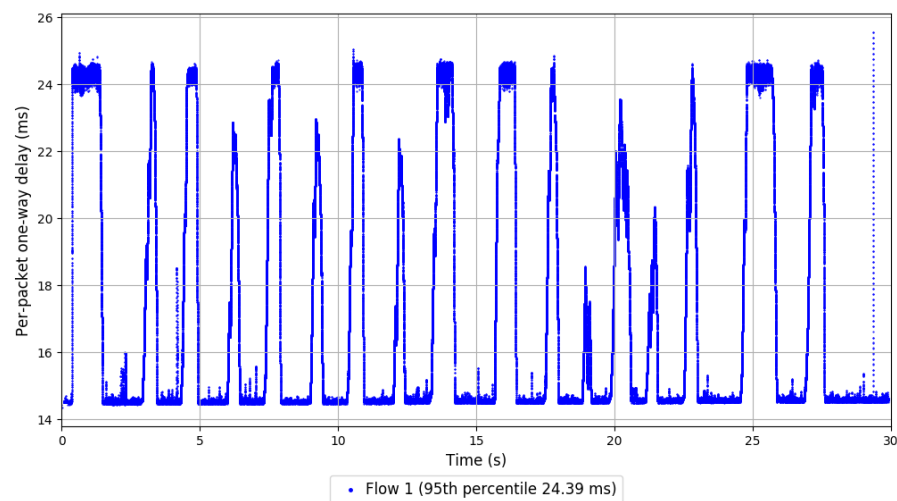
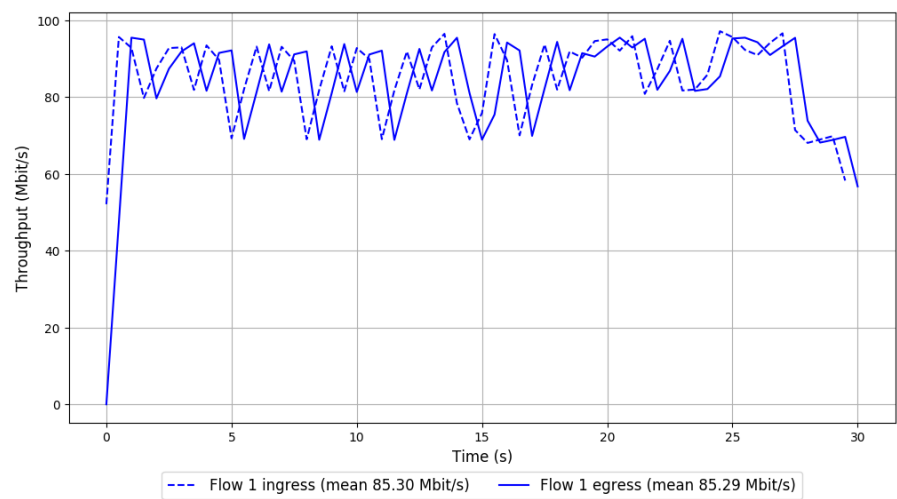
-- Flow 1:

Average throughput: 85.29 Mbit/s

95th percentile per-packet one-way delay: 24.386 ms

Loss rate: 0.10%

Run 2: Report of PCC-Expr — Data Link

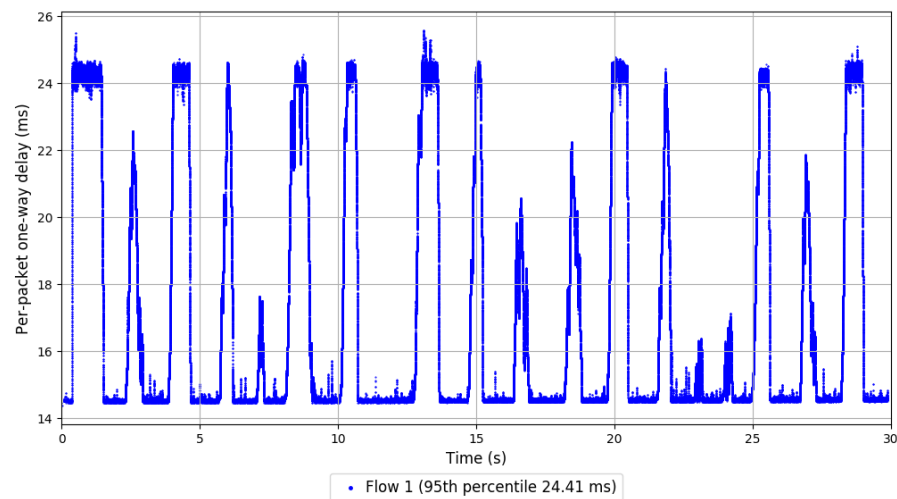
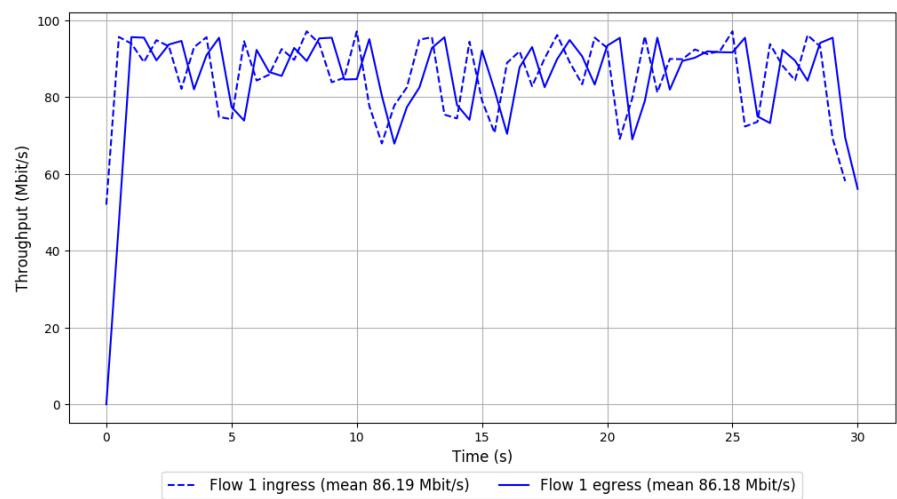


Run 3: Statistics of PCC-Expr

Start at: 2018-06-05 20:10:03
End at: 2018-06-05 20:10:33
Local clock offset: -0.94 ms
Remote clock offset: -1.191 ms

Below is generated by plot.py at 2018-06-05 22:51:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.18 Mbit/s
95th percentile per-packet one-way delay: 24.413 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 86.18 Mbit/s
95th percentile per-packet one-way delay: 24.413 ms
Loss rate: 0.09%

Run 3: Report of PCC-Expr — Data Link

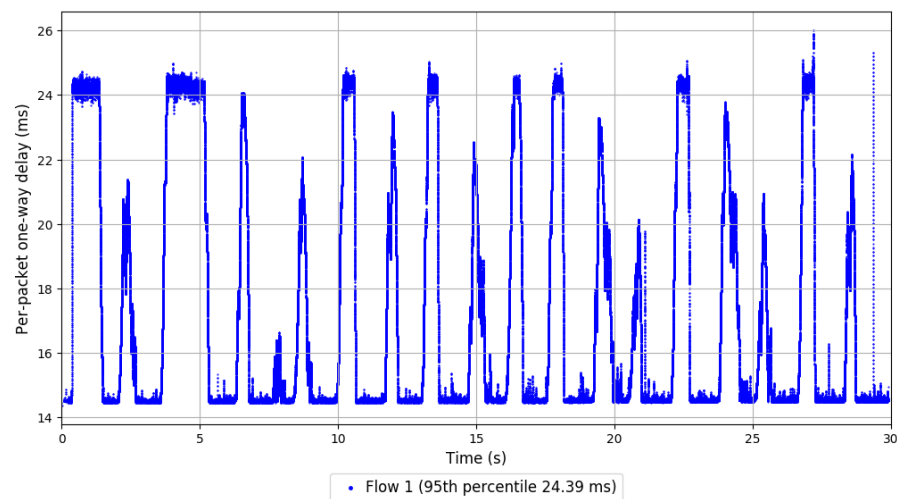
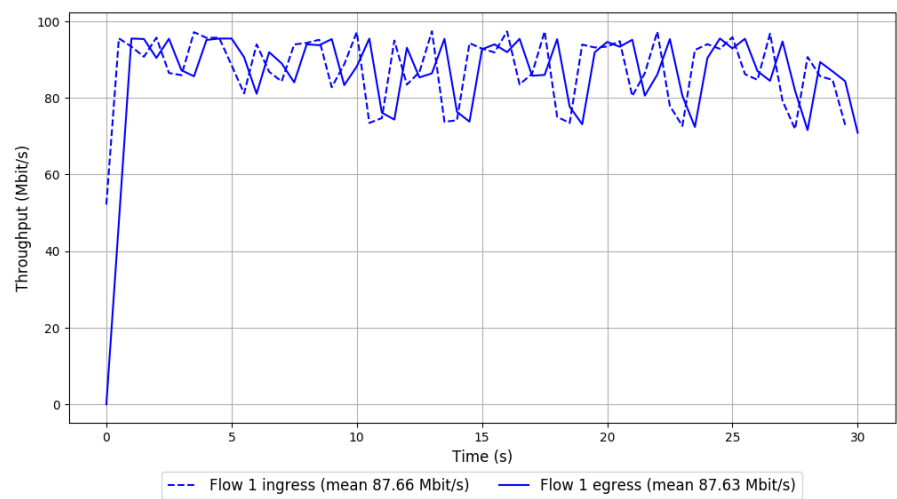


Run 4: Statistics of PCC-Expr

Start at: 2018-06-05 20:28:37
End at: 2018-06-05 20:29:07
Local clock offset: -1.792 ms
Remote clock offset: -0.753 ms

Below is generated by plot.py at 2018-06-05 22:51:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.63 Mbit/s
95th percentile per-packet one-way delay: 24.385 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 87.63 Mbit/s
95th percentile per-packet one-way delay: 24.385 ms
Loss rate: 0.11%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-06-05 20:47:18

End at: 2018-06-05 20:47:48

Local clock offset: 0.744 ms

Remote clock offset: 1.751 ms

Below is generated by plot.py at 2018-06-05 22:51:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.14 Mbit/s

95th percentile per-packet one-way delay: 26.631 ms

Loss rate: 0.17%

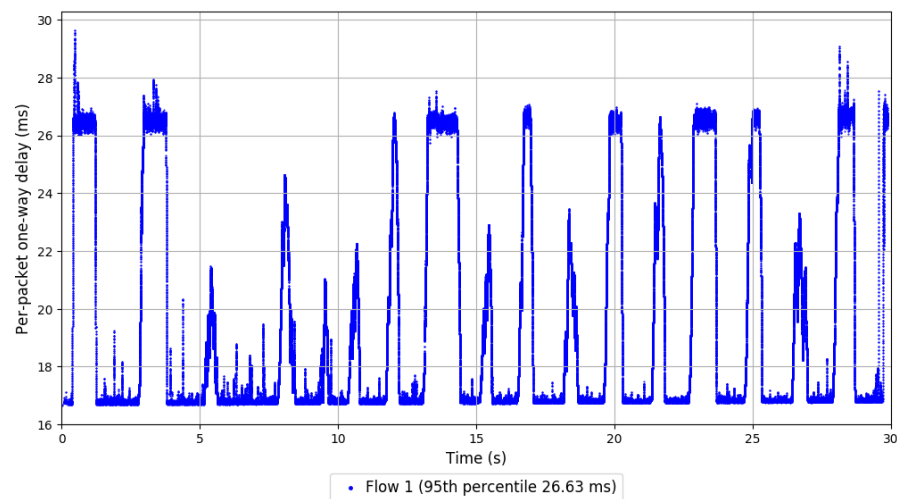
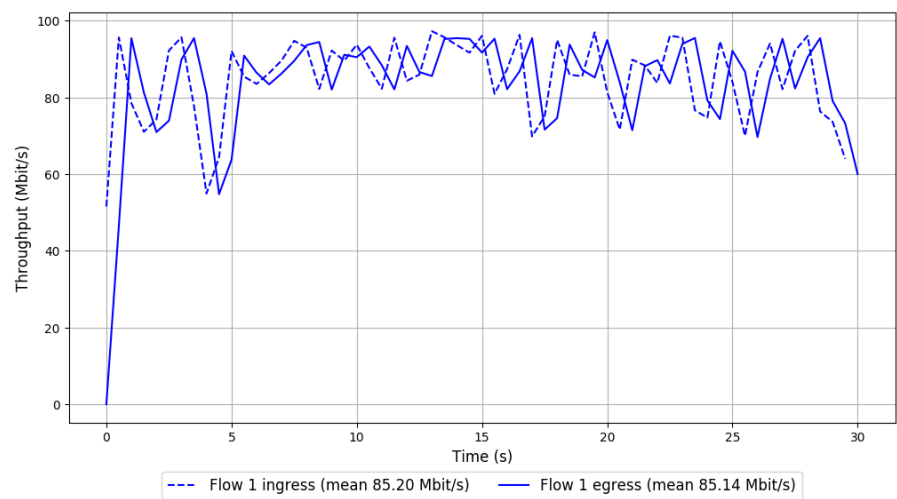
-- Flow 1:

Average throughput: 85.14 Mbit/s

95th percentile per-packet one-way delay: 26.631 ms

Loss rate: 0.17%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-06-05 21:05:52

End at: 2018-06-05 21:06:22

Local clock offset: 0.905 ms

Remote clock offset: 4.218 ms

Below is generated by plot.py at 2018-06-05 22:51:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.36 Mbit/s

95th percentile per-packet one-way delay: 26.934 ms

Loss rate: 0.12%

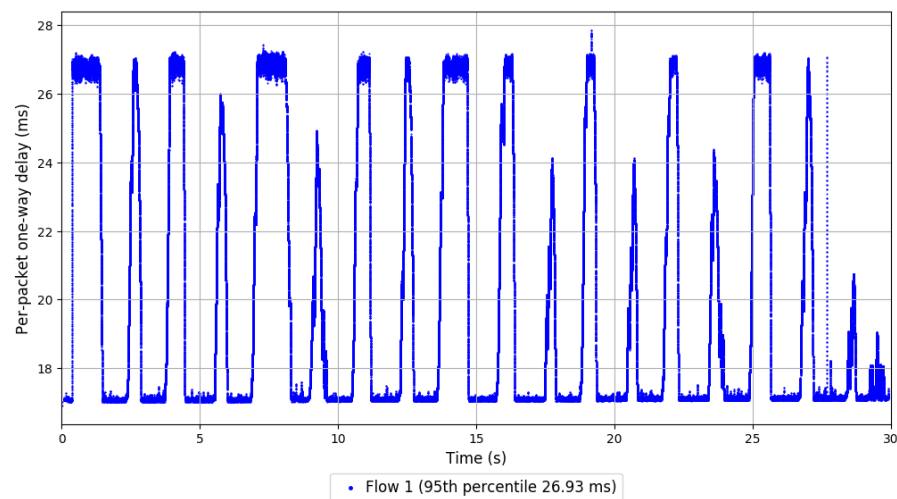
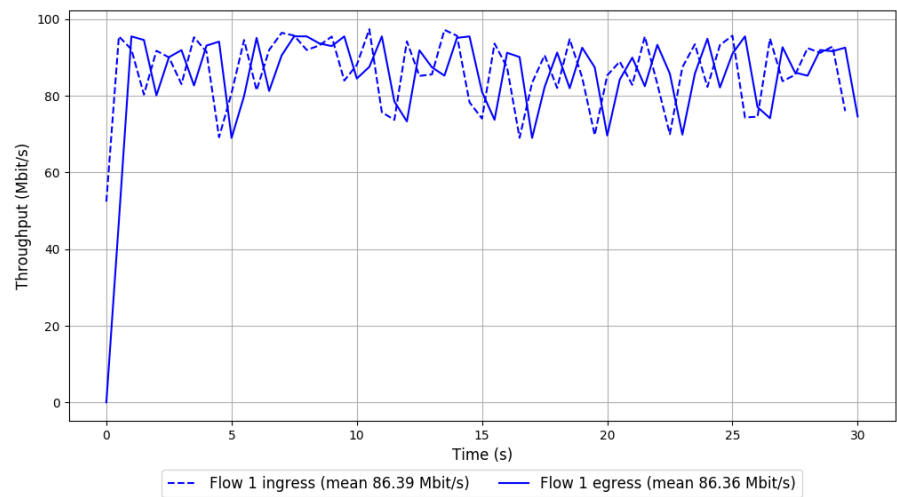
-- Flow 1:

Average throughput: 86.36 Mbit/s

95th percentile per-packet one-way delay: 26.934 ms

Loss rate: 0.12%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-06-05 21:24:20

End at: 2018-06-05 21:24:50

Local clock offset: -2.118 ms

Remote clock offset: 5.834 ms

Below is generated by plot.py at 2018-06-05 22:51:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.43 Mbit/s

95th percentile per-packet one-way delay: 24.419 ms

Loss rate: 0.16%

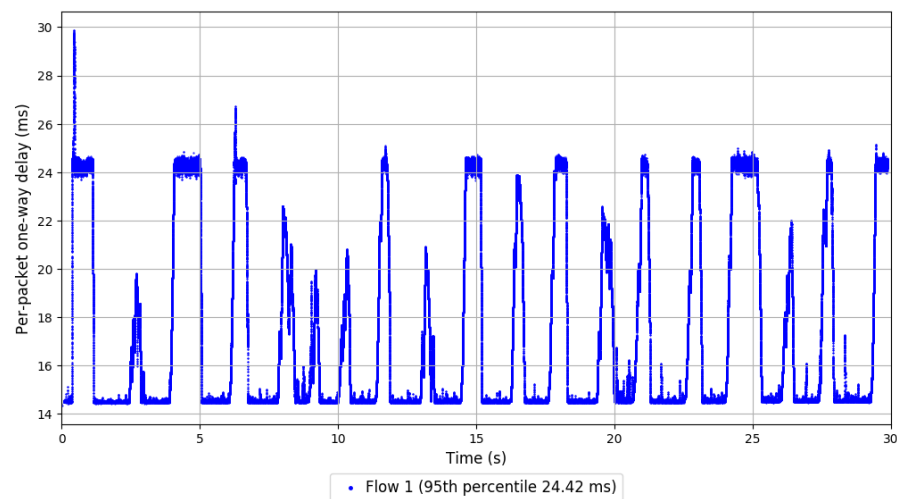
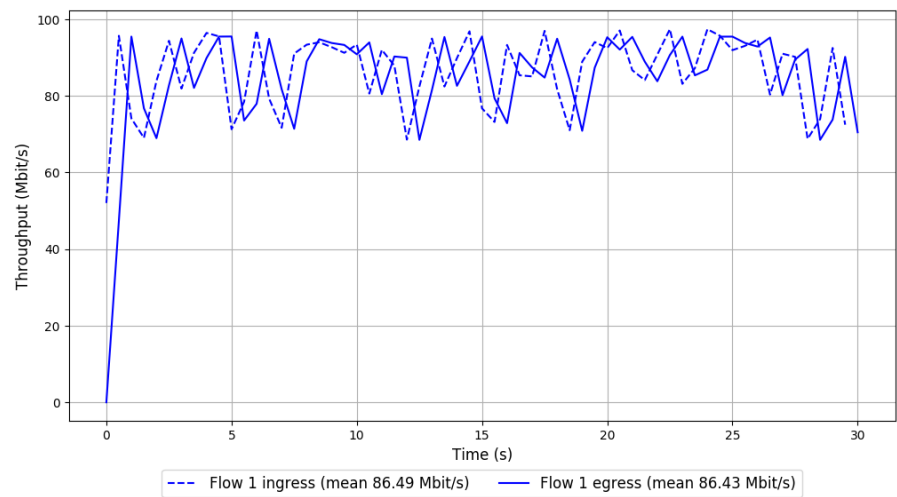
-- Flow 1:

Average throughput: 86.43 Mbit/s

95th percentile per-packet one-way delay: 24.419 ms

Loss rate: 0.16%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-06-05 21:43:04

End at: 2018-06-05 21:43:34

Local clock offset: 0.819 ms

Remote clock offset: 8.349 ms

Below is generated by plot.py at 2018-06-05 22:52:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.14 Mbit/s

95th percentile per-packet one-way delay: 26.359 ms

Loss rate: 0.13%

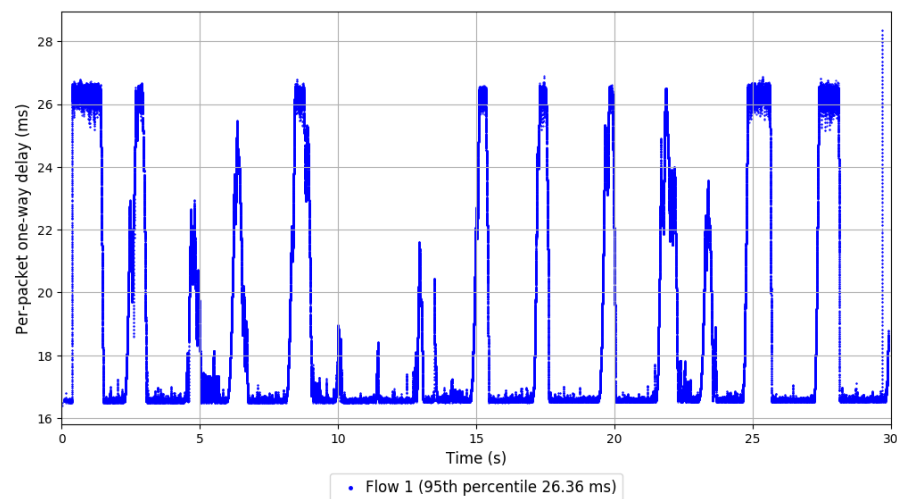
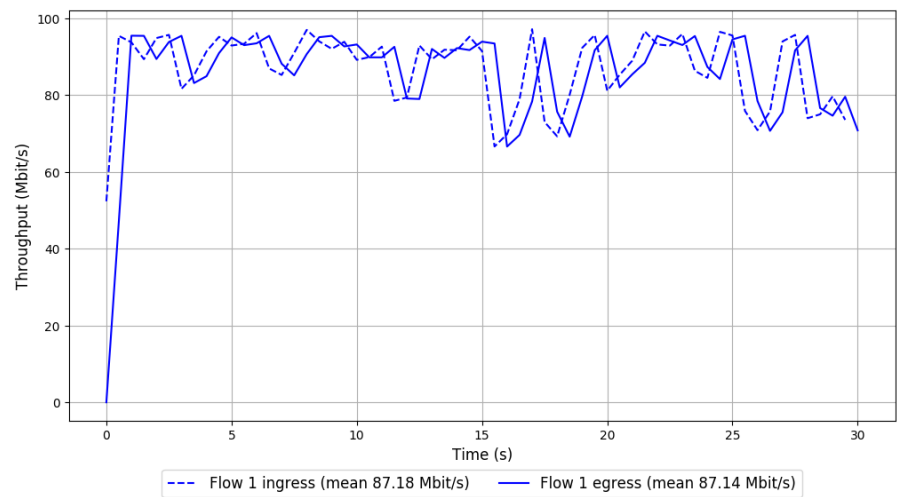
-- Flow 1:

Average throughput: 87.14 Mbit/s

95th percentile per-packet one-way delay: 26.359 ms

Loss rate: 0.13%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-06-05 22:01:33

End at: 2018-06-05 22:02:03

Local clock offset: -0.27 ms

Remote clock offset: 1.516 ms

Below is generated by plot.py at 2018-06-05 22:53:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.13 Mbit/s

95th percentile per-packet one-way delay: 25.558 ms

Loss rate: 0.12%

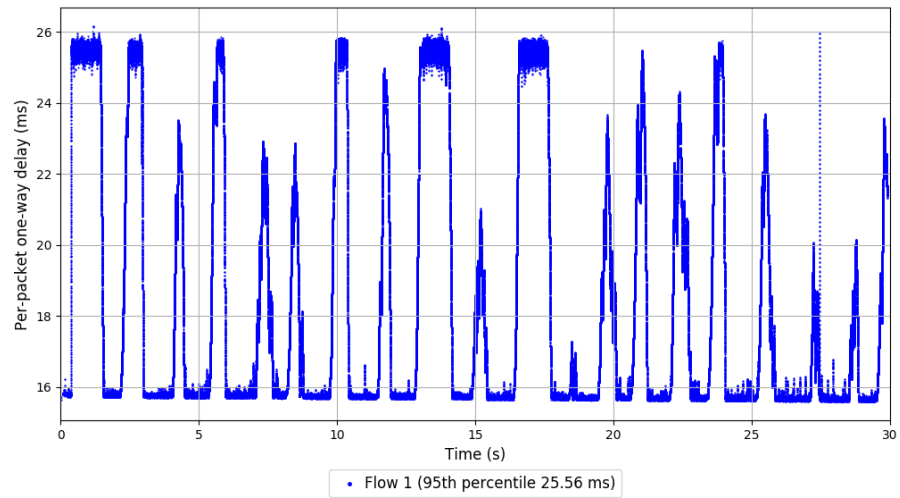
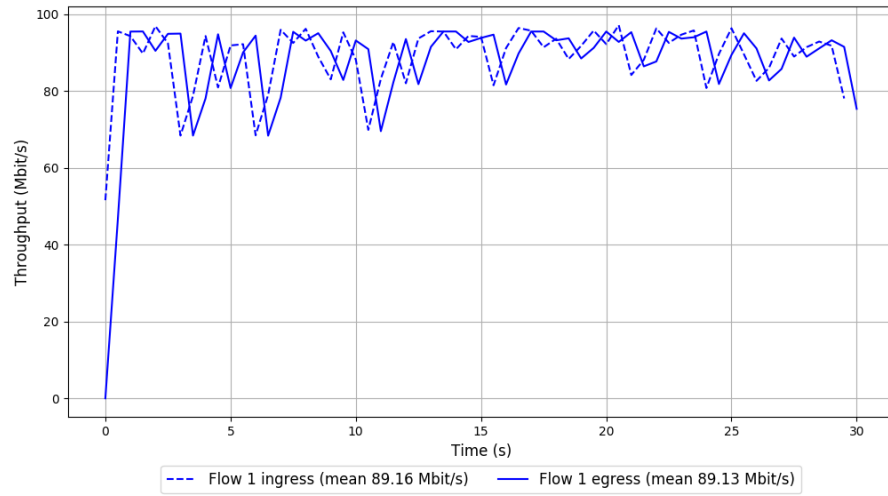
-- Flow 1:

Average throughput: 89.13 Mbit/s

95th percentile per-packet one-way delay: 25.558 ms

Loss rate: 0.12%

Run 9: Report of PCC-Expr — Data Link

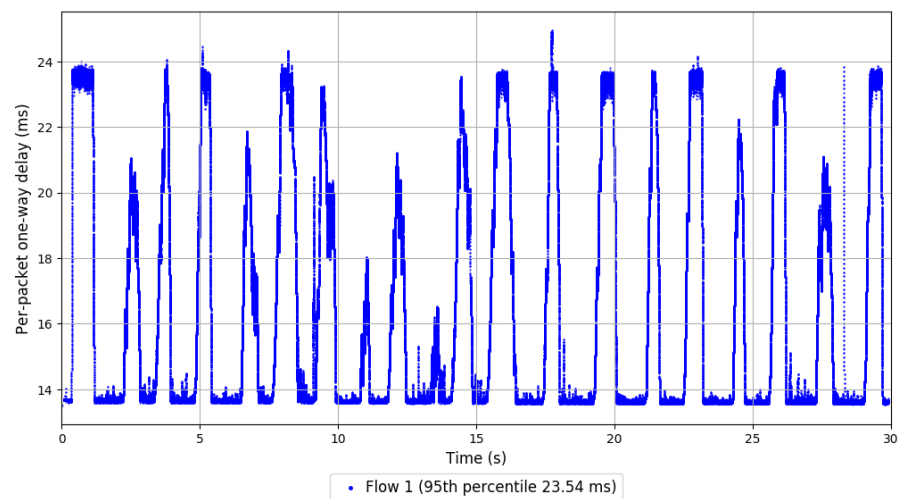
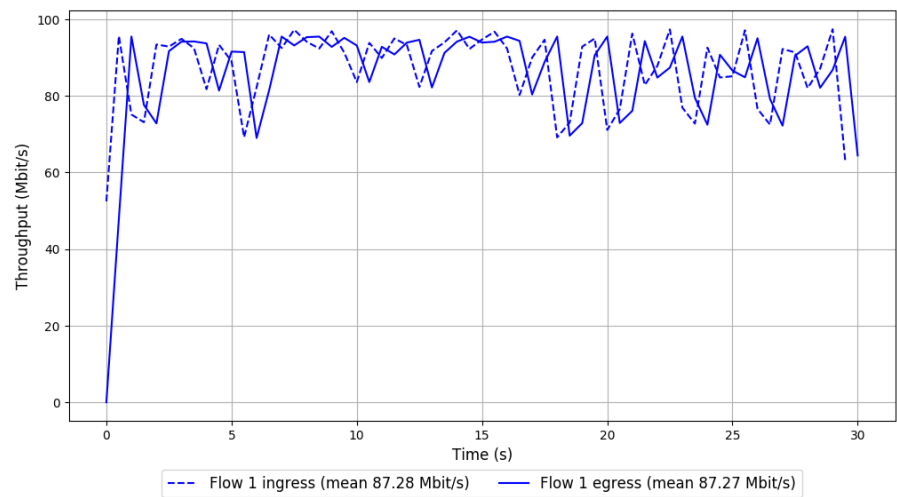


Run 10: Statistics of PCC-Expr

Start at: 2018-06-05 22:19:58
End at: 2018-06-05 22:20:28
Local clock offset: -2.443 ms
Remote clock offset: -1.787 ms

Below is generated by plot.py at 2018-06-05 22:53:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.27 Mbit/s
95th percentile per-packet one-way delay: 23.542 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 87.27 Mbit/s
95th percentile per-packet one-way delay: 23.542 ms
Loss rate: 0.09%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-06-05 19:44:42

End at: 2018-06-05 19:45:12

Local clock offset: 0.558 ms

Remote clock offset: -4.627 ms

Below is generated by plot.py at 2018-06-05 22:53:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.63 Mbit/s

95th percentile per-packet one-way delay: 23.046 ms

Loss rate: 0.12%

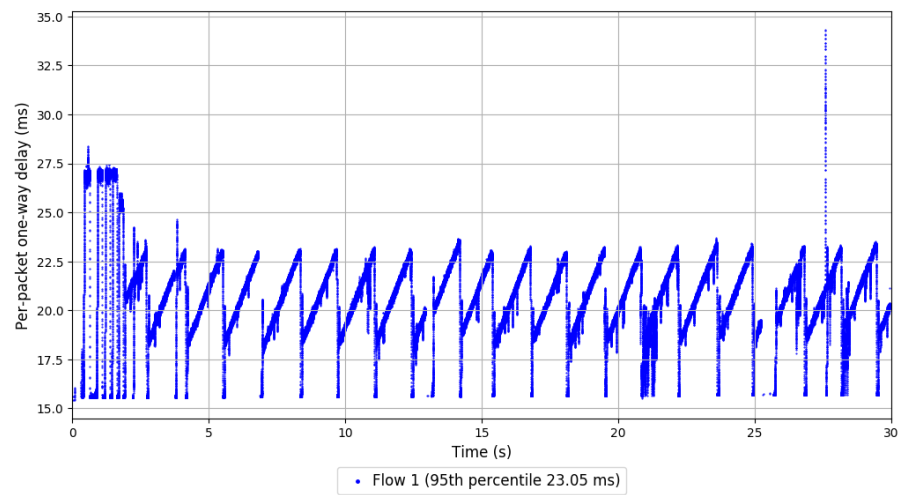
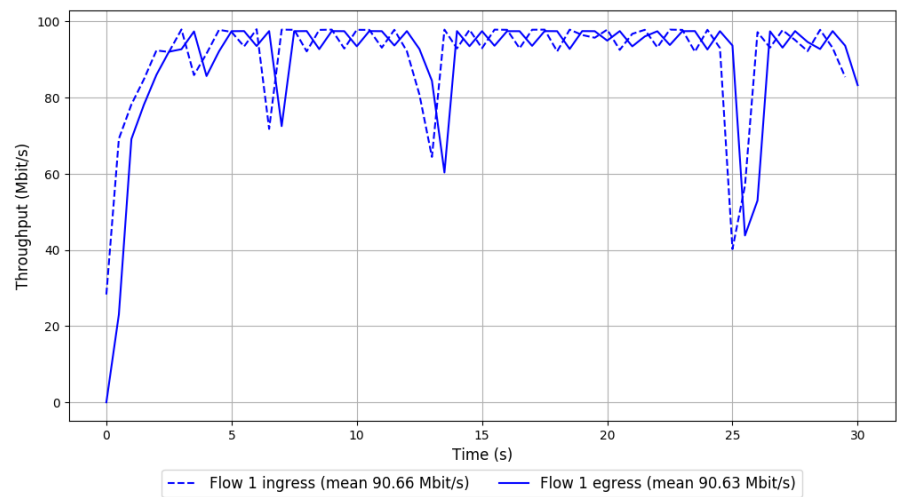
-- Flow 1:

Average throughput: 90.63 Mbit/s

95th percentile per-packet one-way delay: 23.046 ms

Loss rate: 0.12%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-06-05 20:03:12

End at: 2018-06-05 20:03:42

Local clock offset: -1.23 ms

Remote clock offset: -1.527 ms

Below is generated by plot.py at 2018-06-05 22:53:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.08 Mbit/s

95th percentile per-packet one-way delay: 21.378 ms

Loss rate: 0.12%

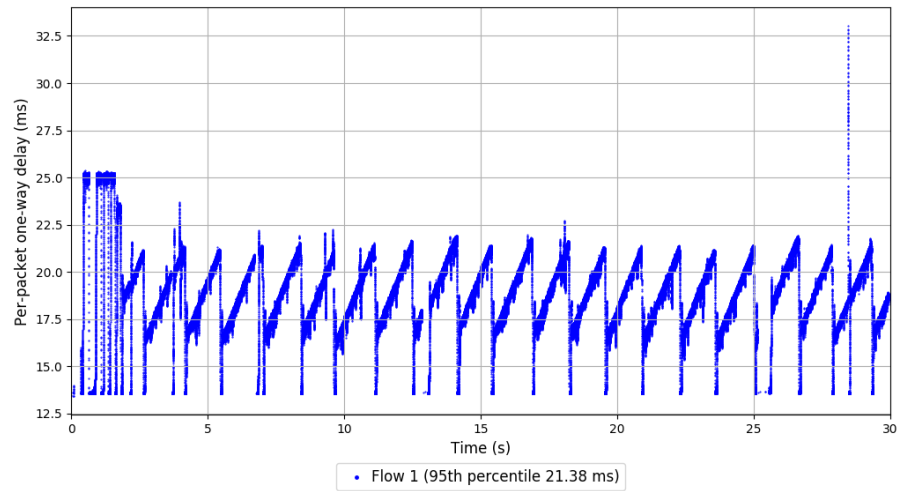
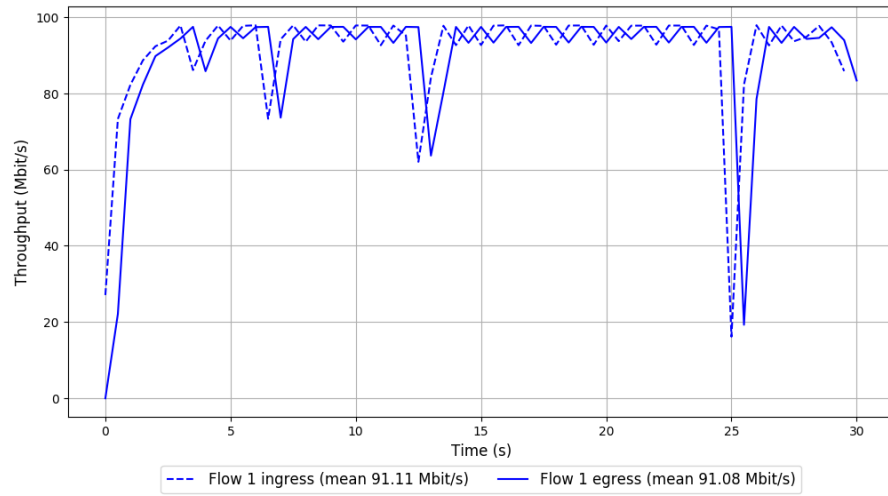
-- Flow 1:

Average throughput: 91.08 Mbit/s

95th percentile per-packet one-way delay: 21.378 ms

Loss rate: 0.12%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-06-05 20:21:38

End at: 2018-06-05 20:22:08

Local clock offset: -2.616 ms

Remote clock offset: -1.241 ms

Below is generated by plot.py at 2018-06-05 22:53:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.04 Mbit/s

95th percentile per-packet one-way delay: 21.650 ms

Loss rate: 0.12%

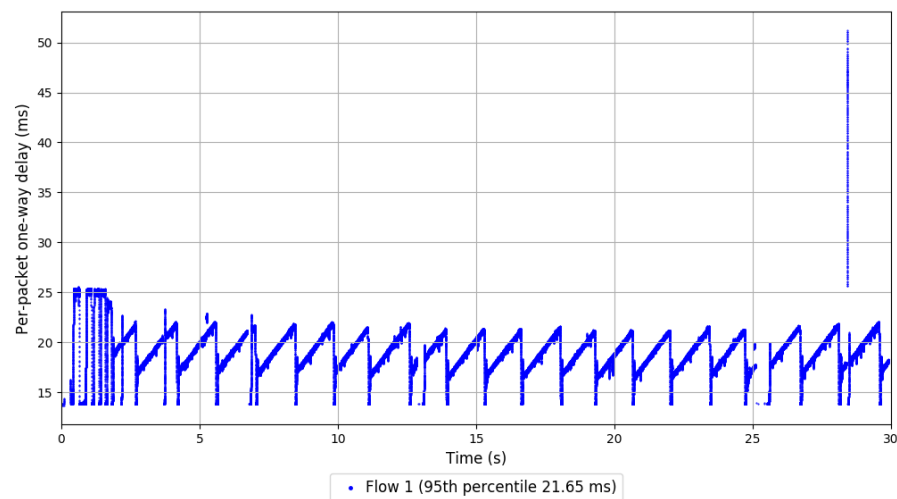
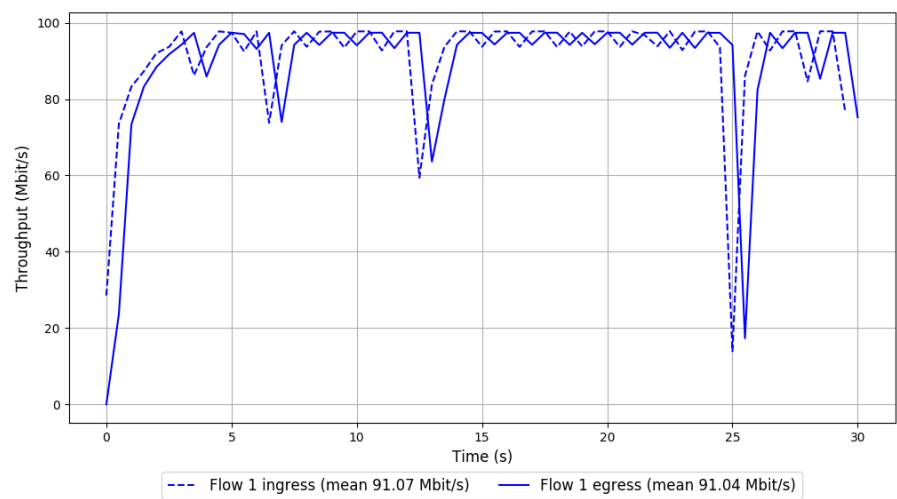
-- Flow 1:

Average throughput: 91.04 Mbit/s

95th percentile per-packet one-way delay: 21.650 ms

Loss rate: 0.12%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-06-05 20:40:18

End at: 2018-06-05 20:40:48

Local clock offset: 0.774 ms

Remote clock offset: -0.559 ms

Below is generated by plot.py at 2018-06-05 22:53:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.19 Mbit/s

95th percentile per-packet one-way delay: 25.120 ms

Loss rate: 0.11%

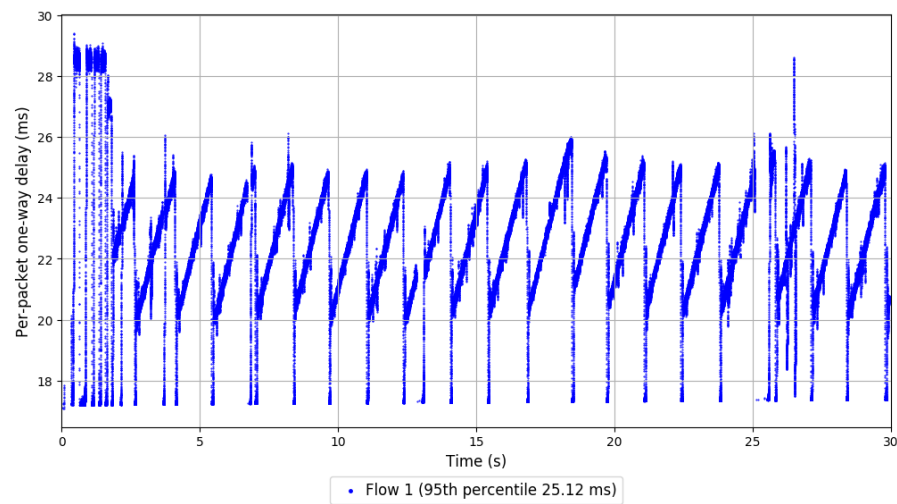
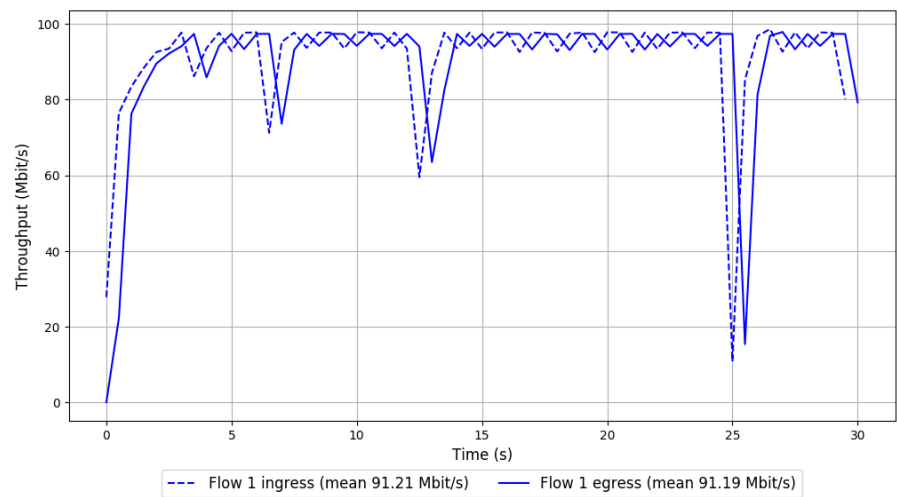
-- Flow 1:

Average throughput: 91.19 Mbit/s

95th percentile per-packet one-way delay: 25.120 ms

Loss rate: 0.11%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-06-05 20:59:04

End at: 2018-06-05 20:59:34

Local clock offset: 0.471 ms

Remote clock offset: 3.737 ms

Below is generated by plot.py at 2018-06-05 22:53:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.03 Mbit/s

95th percentile per-packet one-way delay: 24.111 ms

Loss rate: 0.11%

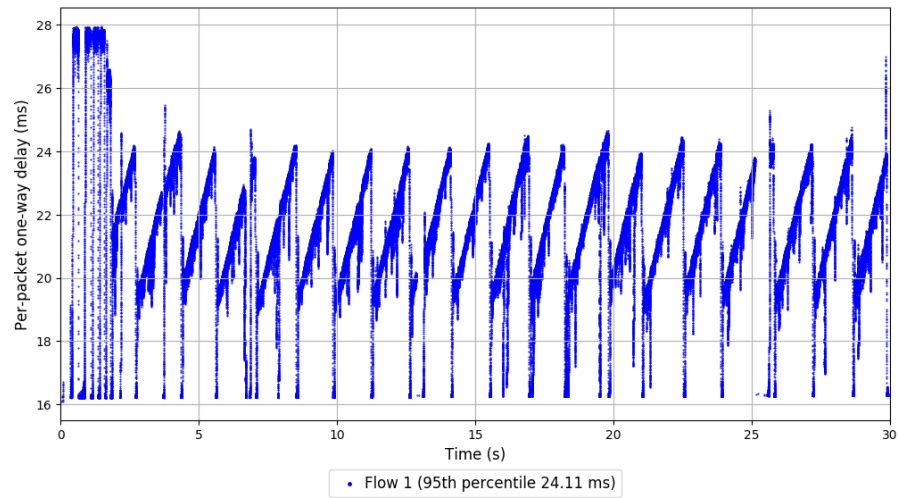
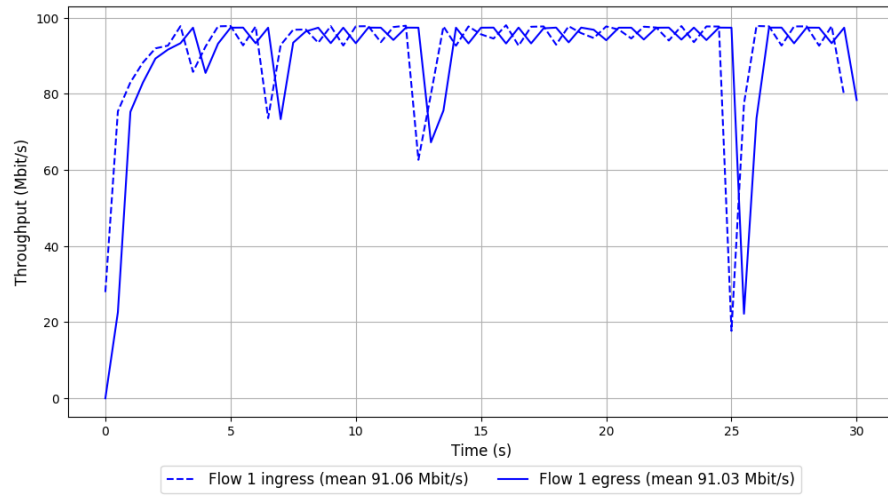
-- Flow 1:

Average throughput: 91.03 Mbit/s

95th percentile per-packet one-way delay: 24.111 ms

Loss rate: 0.11%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-06-05 21:17:24

End at: 2018-06-05 21:17:54

Local clock offset: 0.869 ms

Remote clock offset: 6.27 ms

Below is generated by plot.py at 2018-06-05 22:53:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.19 Mbit/s

95th percentile per-packet one-way delay: 23.958 ms

Loss rate: 0.12%

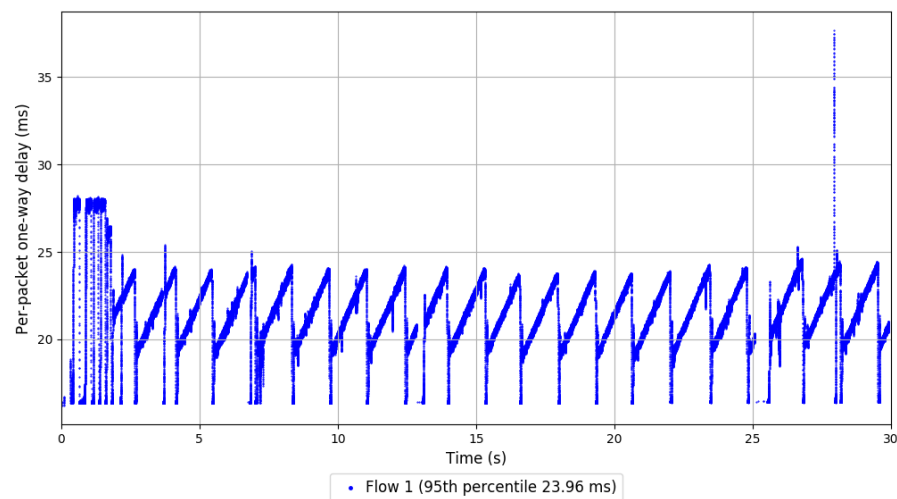
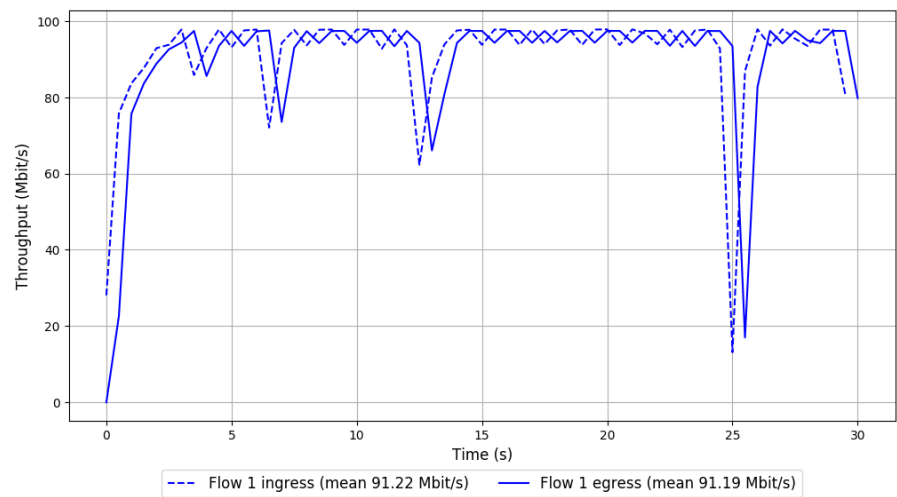
-- Flow 1:

Average throughput: 91.19 Mbit/s

95th percentile per-packet one-way delay: 23.958 ms

Loss rate: 0.12%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-06-05 21:36:08

End at: 2018-06-05 21:36:38

Local clock offset: -2.241 ms

Remote clock offset: 7.854 ms

Below is generated by plot.py at 2018-06-05 22:54:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.05 Mbit/s

95th percentile per-packet one-way delay: 21.177 ms

Loss rate: 0.12%

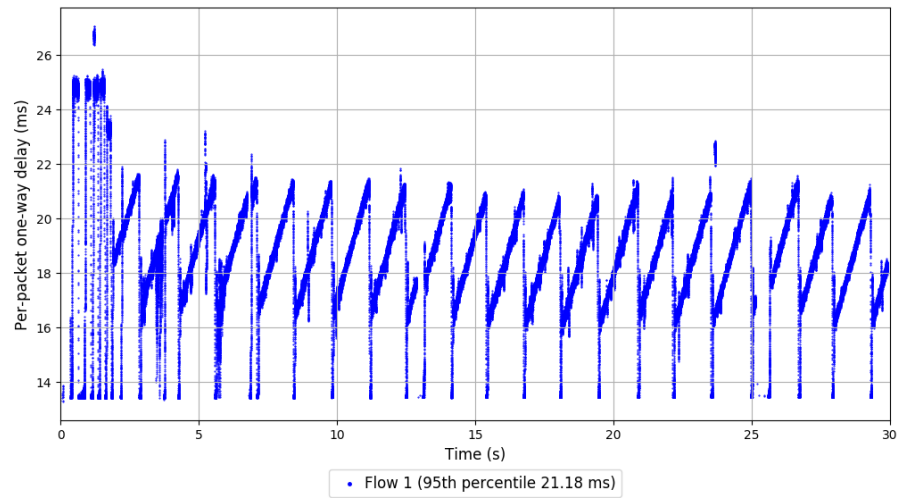
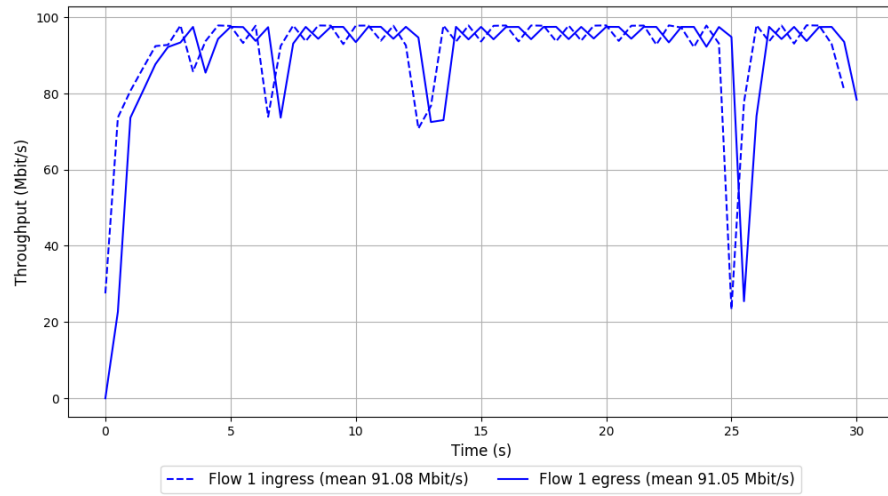
-- Flow 1:

Average throughput: 91.05 Mbit/s

95th percentile per-packet one-way delay: 21.177 ms

Loss rate: 0.12%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-06-05 21:54:47

End at: 2018-06-05 21:55:17

Local clock offset: -1.835 ms

Remote clock offset: 3.697 ms

Below is generated by plot.py at 2018-06-05 22:54:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.17 Mbit/s

95th percentile per-packet one-way delay: 21.688 ms

Loss rate: 0.12%

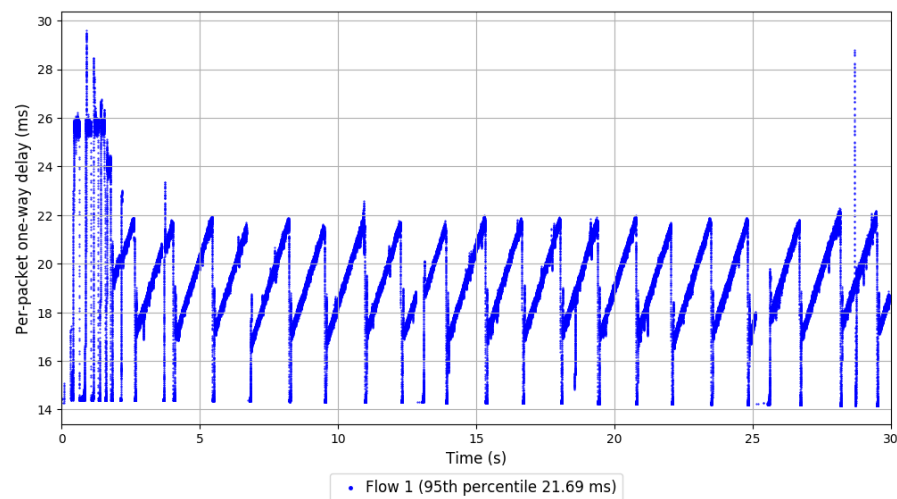
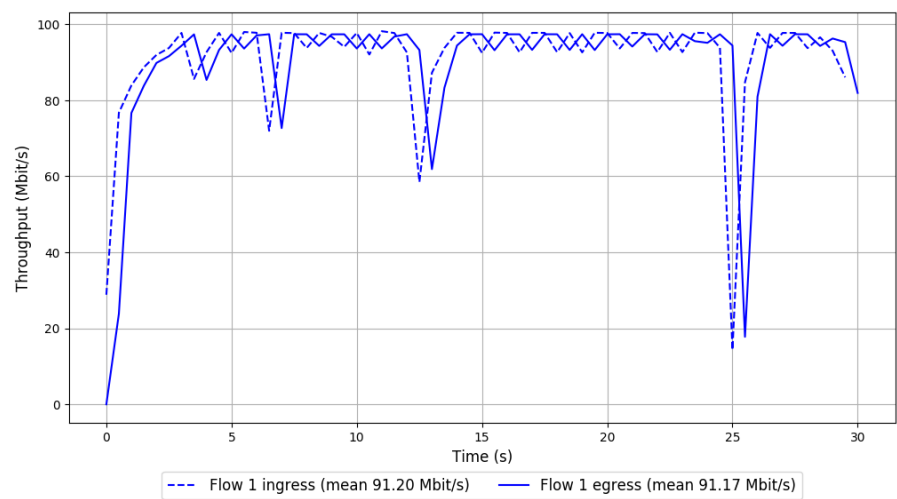
-- Flow 1:

Average throughput: 91.17 Mbit/s

95th percentile per-packet one-way delay: 21.688 ms

Loss rate: 0.12%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-06-05 22:13:07

End at: 2018-06-05 22:13:37

Local clock offset: -1.986 ms

Remote clock offset: -0.474 ms

Below is generated by plot.py at 2018-06-05 22:54:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.18 Mbit/s

95th percentile per-packet one-way delay: 21.814 ms

Loss rate: 0.12%

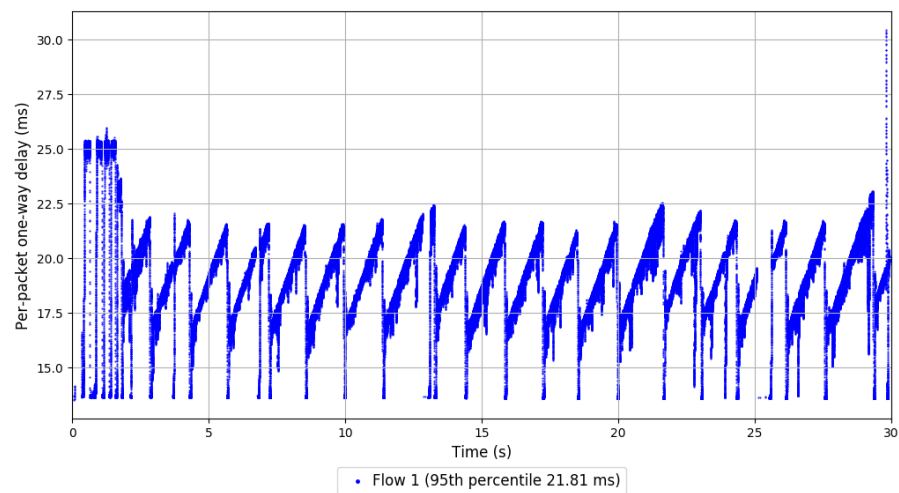
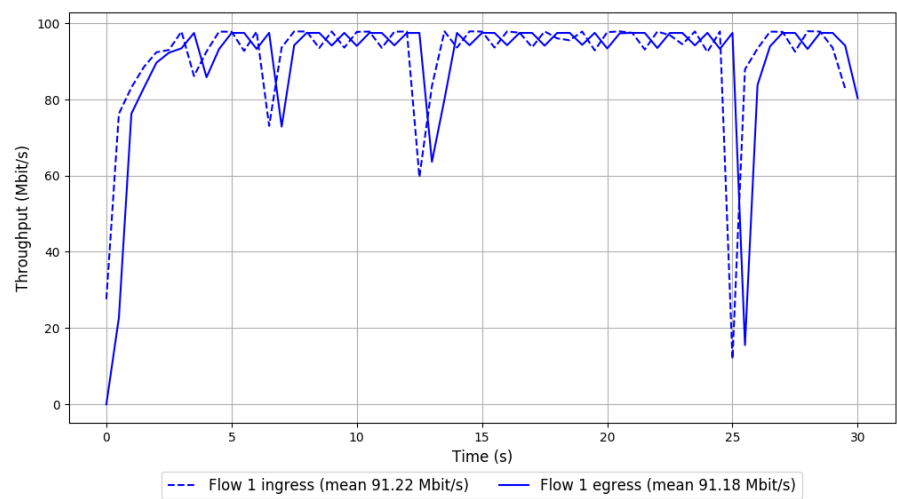
-- Flow 1:

Average throughput: 91.18 Mbit/s

95th percentile per-packet one-way delay: 21.814 ms

Loss rate: 0.12%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-06-05 22:31:28

End at: 2018-06-05 22:31:58

Local clock offset: 0.24 ms

Remote clock offset: -6.717 ms

Below is generated by plot.py at 2018-06-05 22:54:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.69 Mbit/s

95th percentile per-packet one-way delay: 22.723 ms

Loss rate: 0.13%

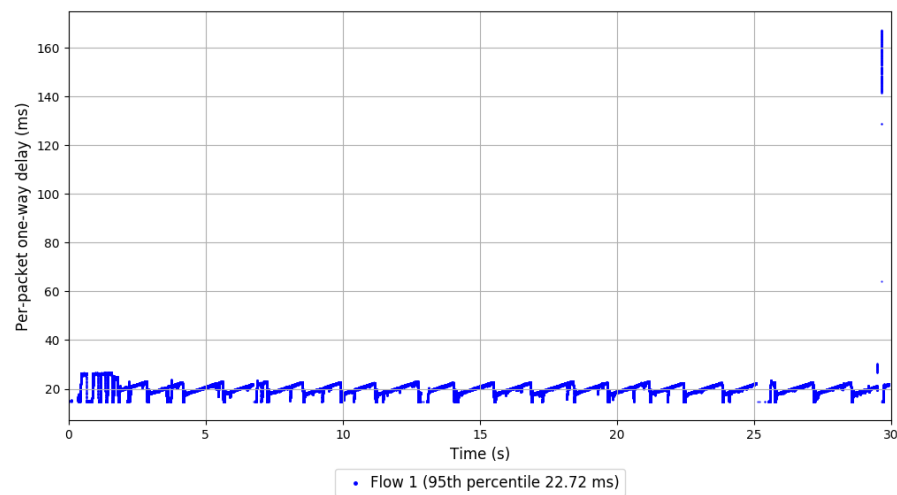
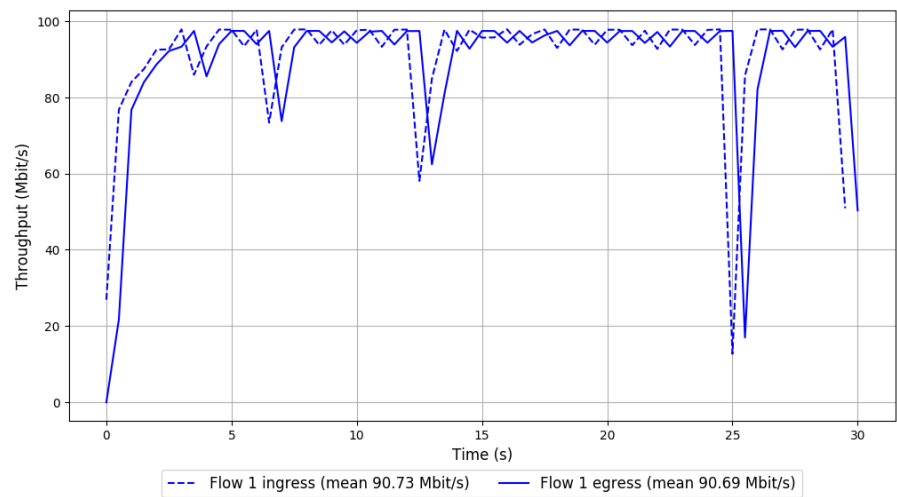
-- Flow 1:

Average throughput: 90.69 Mbit/s

95th percentile per-packet one-way delay: 22.723 ms

Loss rate: 0.13%

Run 10: Report of QUIC Cubic — Data Link

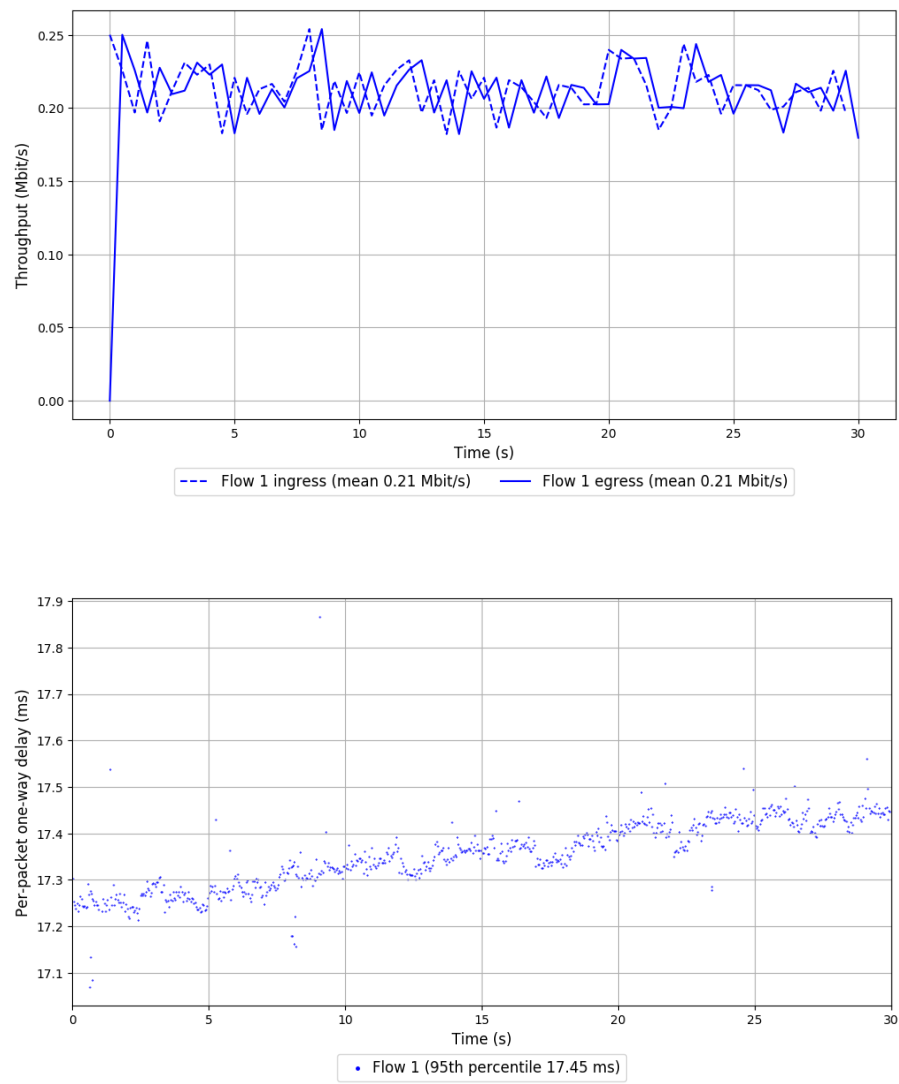


Run 1: Statistics of SCReAM

Start at: 2018-06-05 19:42:27
End at: 2018-06-05 19:42:57
Local clock offset: 2.515 ms
Remote clock offset: -5.165 ms

Below is generated by plot.py at 2018-06-05 22:54:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 17.452 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 17.452 ms
Loss rate: 0.13%

Run 1: Report of SReAM — Data Link

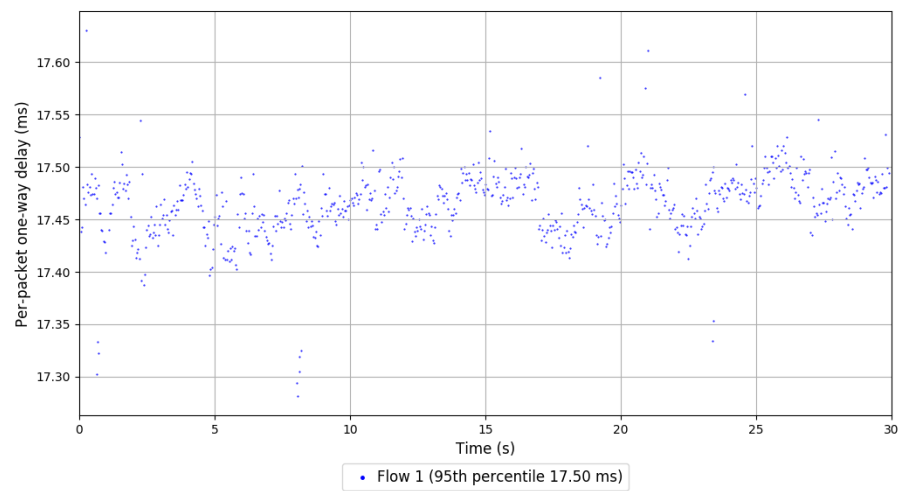
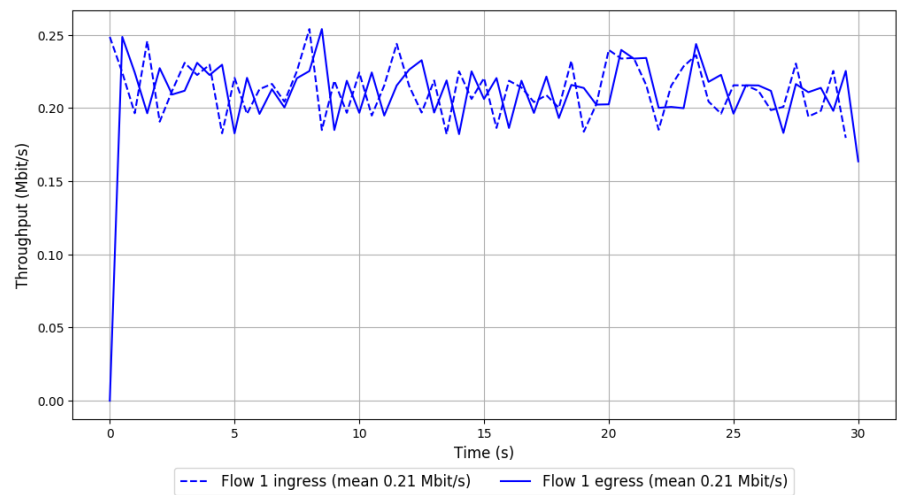


Run 2: Statistics of SCReAM

Start at: 2018-06-05 20:00:57
End at: 2018-06-05 20:01:27
Local clock offset: 2.282 ms
Remote clock offset: -2.087 ms

Below is generated by plot.py at 2018-06-05 22:54:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 17.504 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 17.504 ms
Loss rate: 0.13%

Run 2: Report of SReAM — Data Link

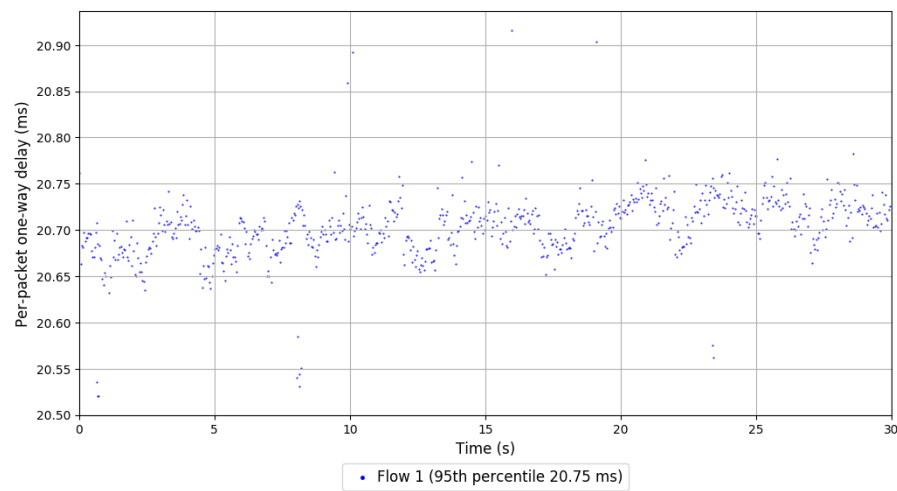
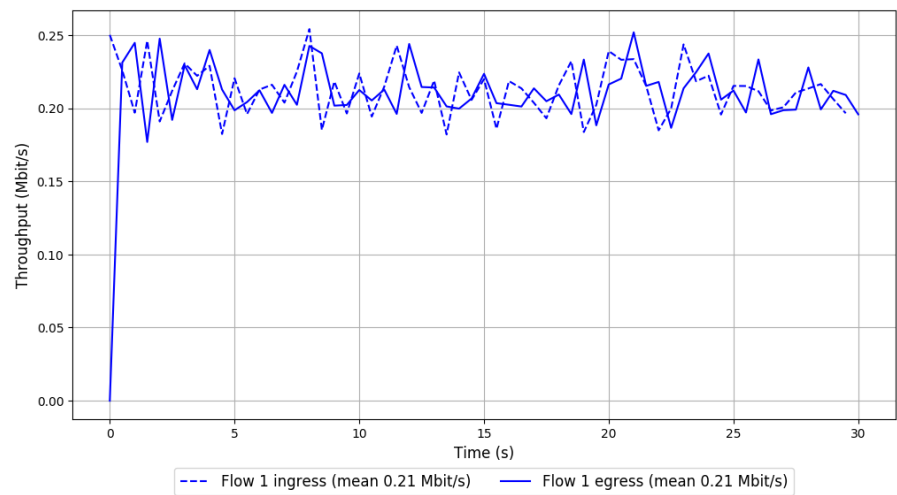


Run 3: Statistics of SCReAM

Start at: 2018-06-05 20:19:22
End at: 2018-06-05 20:19:52
Local clock offset: -0.302 ms
Remote clock offset: -5.935 ms

Below is generated by plot.py at 2018-06-05 22:54:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 20.747 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 20.747 ms
Loss rate: 0.13%

Run 3: Report of SReAM — Data Link

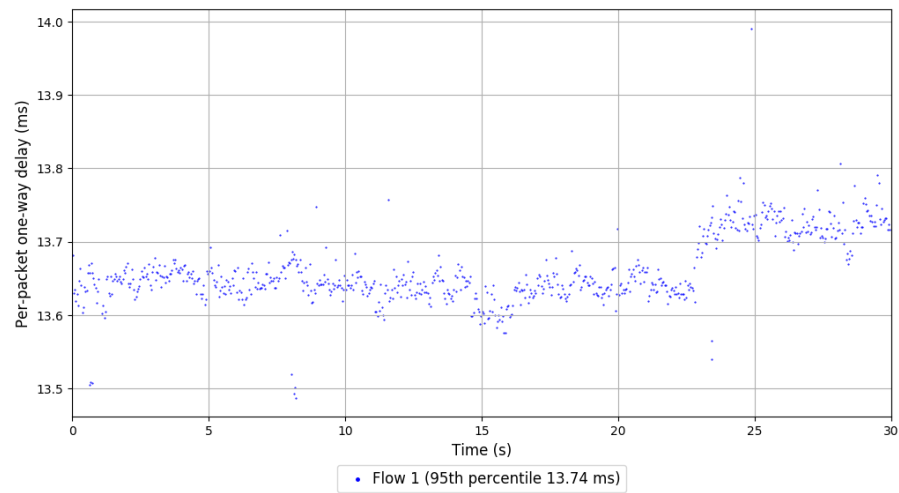
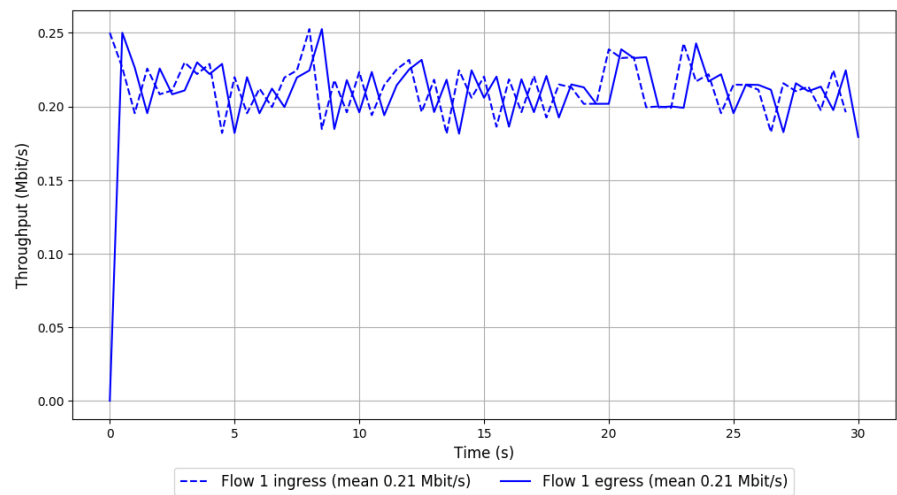


Run 4: Statistics of SCReAM

Start at: 2018-06-05 20:38:00
End at: 2018-06-05 20:38:30
Local clock offset: -2.544 ms
Remote clock offset: -0.473 ms

Below is generated by plot.py at 2018-06-05 22:54:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 13.740 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 13.740 ms
Loss rate: 0.13%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-06-05 20:56:50

End at: 2018-06-05 20:57:20

Local clock offset: -1.772 ms

Remote clock offset: 2.85 ms

Below is generated by plot.py at 2018-06-05 22:54:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 14.663 ms

Loss rate: 0.21%

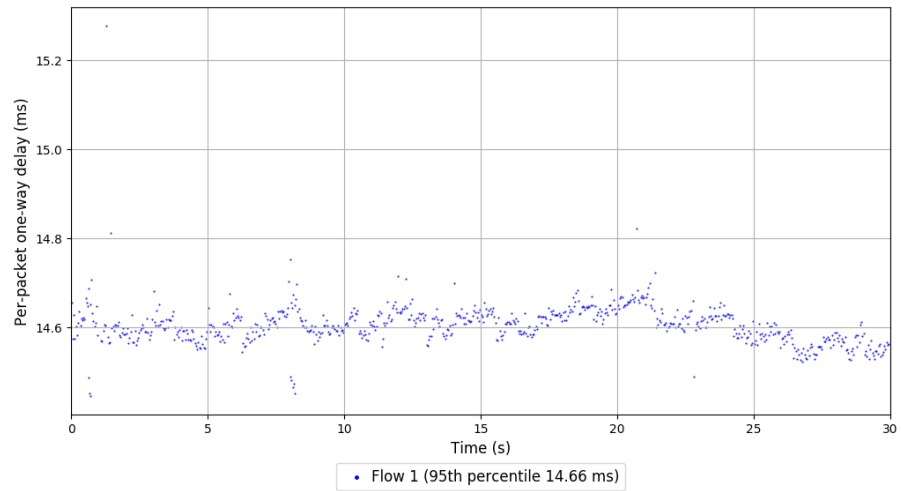
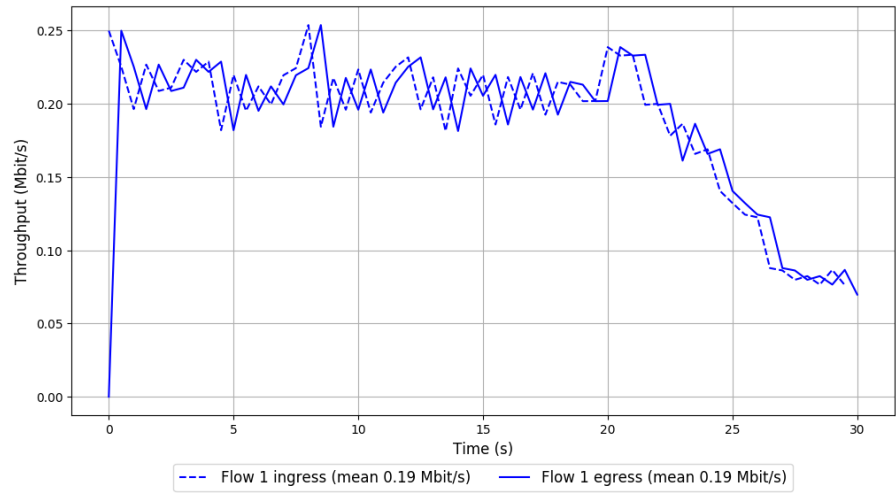
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 14.663 ms

Loss rate: 0.21%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-06-05 21:15:10

End at: 2018-06-05 21:15:40

Local clock offset: -1.814 ms

Remote clock offset: 4.868 ms

Below is generated by plot.py at 2018-06-05 22:54:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 14.911 ms

Loss rate: 0.13%

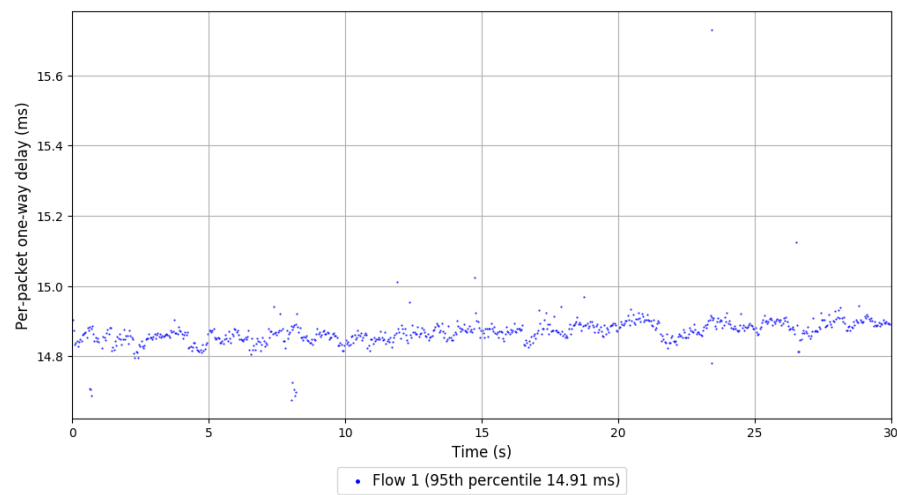
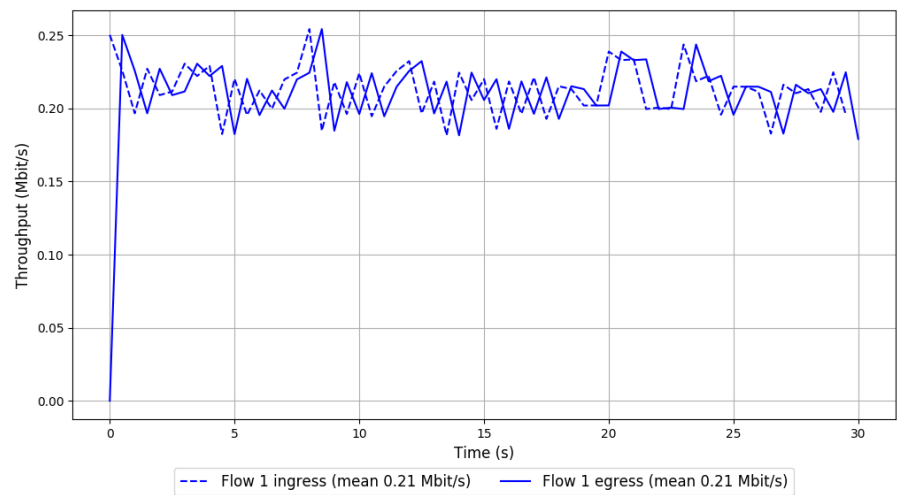
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 14.911 ms

Loss rate: 0.13%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-06-05 21:33:53

End at: 2018-06-05 21:34:23

Local clock offset: -2.401 ms

Remote clock offset: 1.257 ms

Below is generated by plot.py at 2018-06-05 22:54:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 19.784 ms

Loss rate: 0.13%

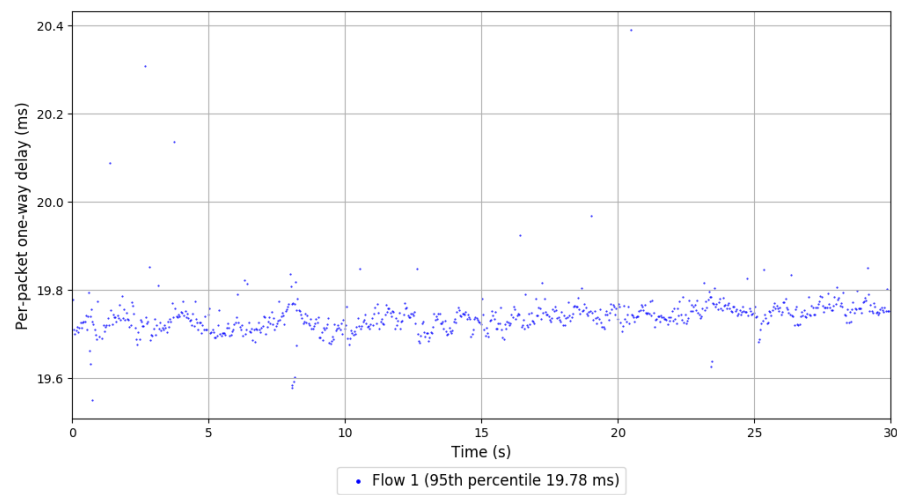
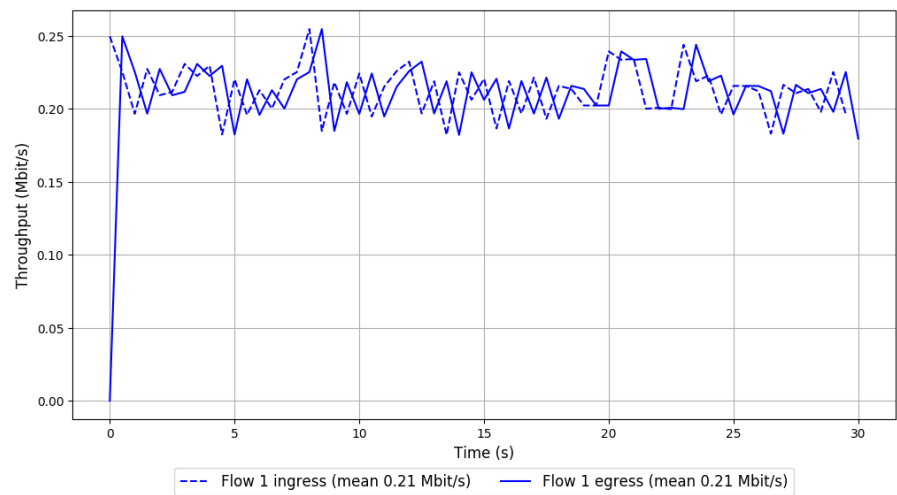
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 19.784 ms

Loss rate: 0.13%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-06-05 21:52:30

End at: 2018-06-05 21:53:00

Local clock offset: -0.085 ms

Remote clock offset: 5.062 ms

Below is generated by plot.py at 2018-06-05 22:54:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 16.033 ms

Loss rate: 0.00%

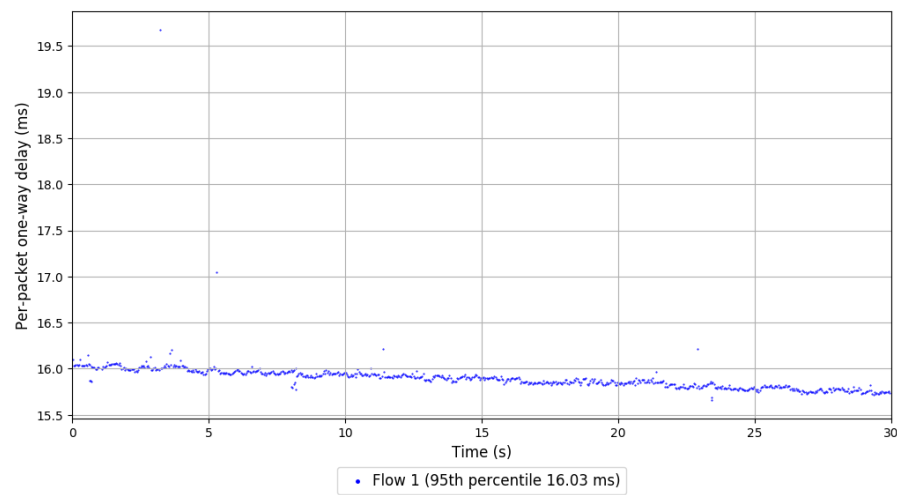
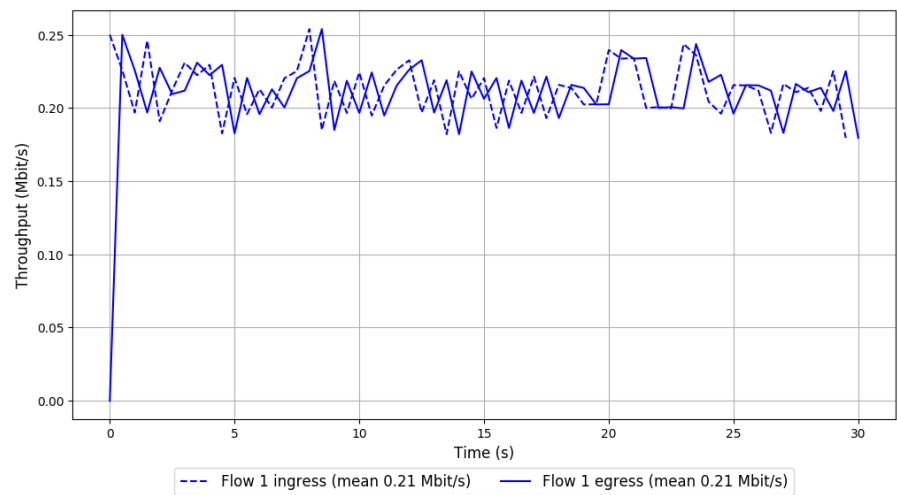
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 16.033 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

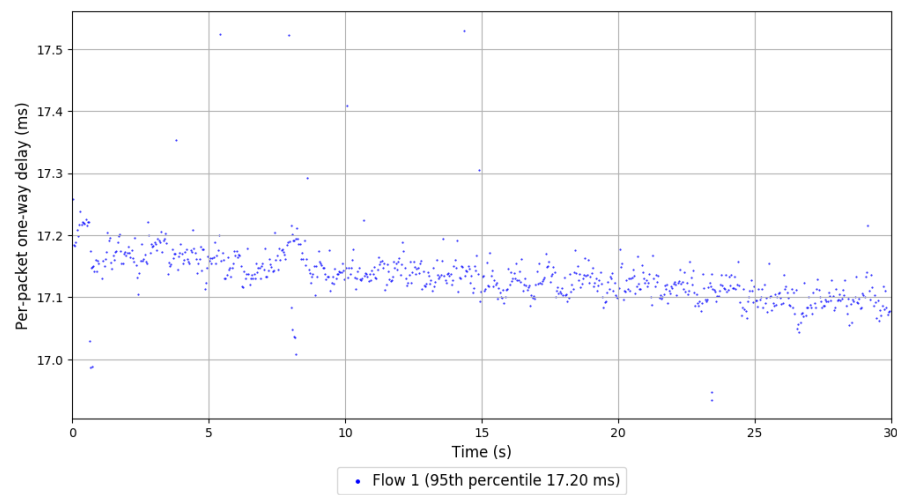
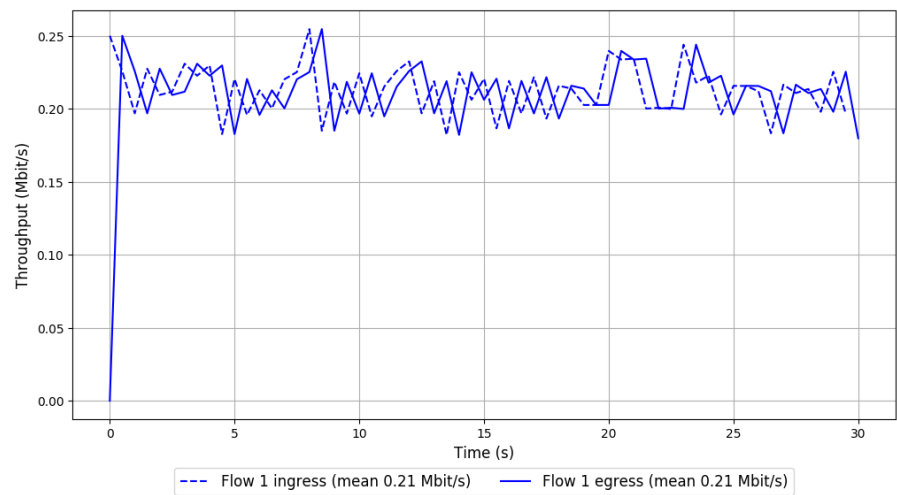


Run 9: Statistics of SCReAM

Start at: 2018-06-05 22:10:49
End at: 2018-06-05 22:11:19
Local clock offset: 0.587 ms
Remote clock offset: -1.054 ms

Below is generated by plot.py at 2018-06-05 22:54:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 17.195 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 17.195 ms
Loss rate: 0.13%

Run 9: Report of SReAM — Data Link

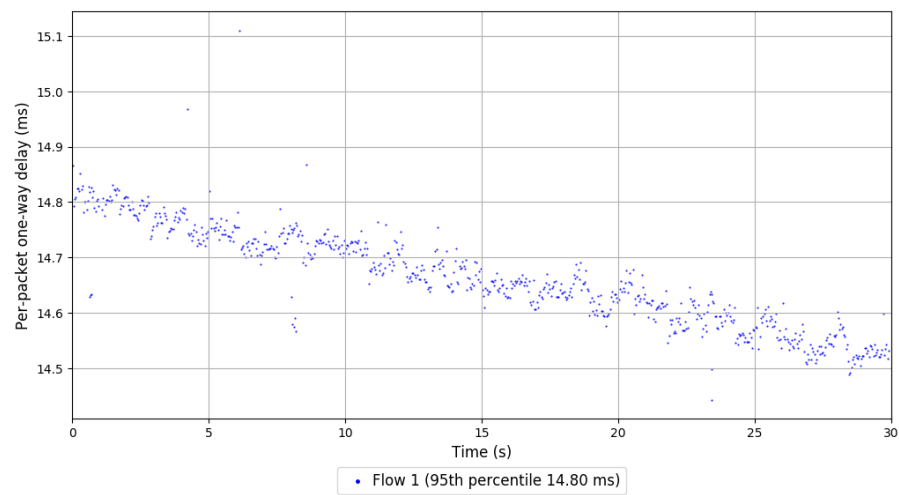
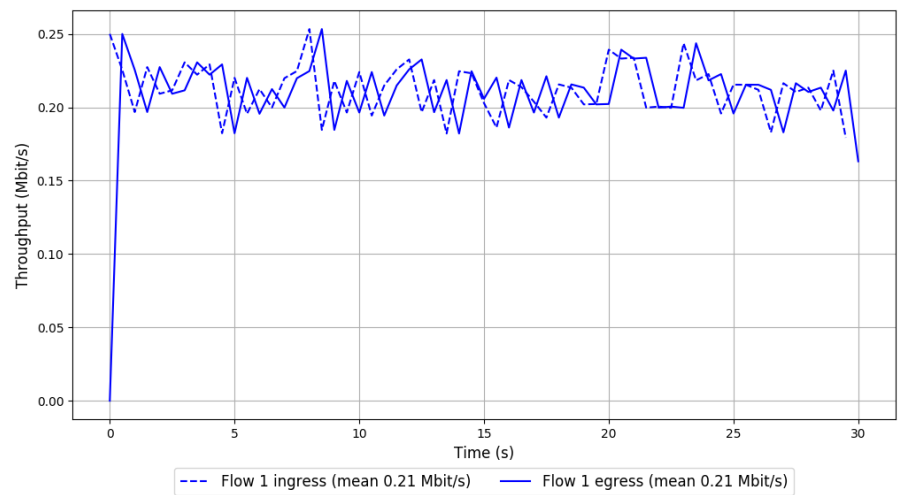


Run 10: Statistics of SCReAM

Start at: 2018-06-05 22:29:12
End at: 2018-06-05 22:29:42
Local clock offset: -0.542 ms
Remote clock offset: -6.245 ms

Below is generated by plot.py at 2018-06-05 22:54:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 14.802 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 14.802 ms
Loss rate: 0.13%

Run 10: Report of SReAM — Data Link

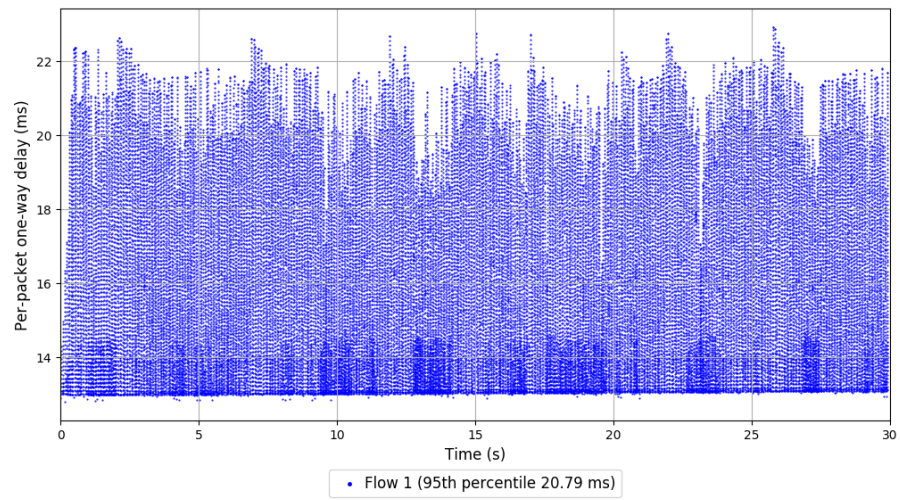
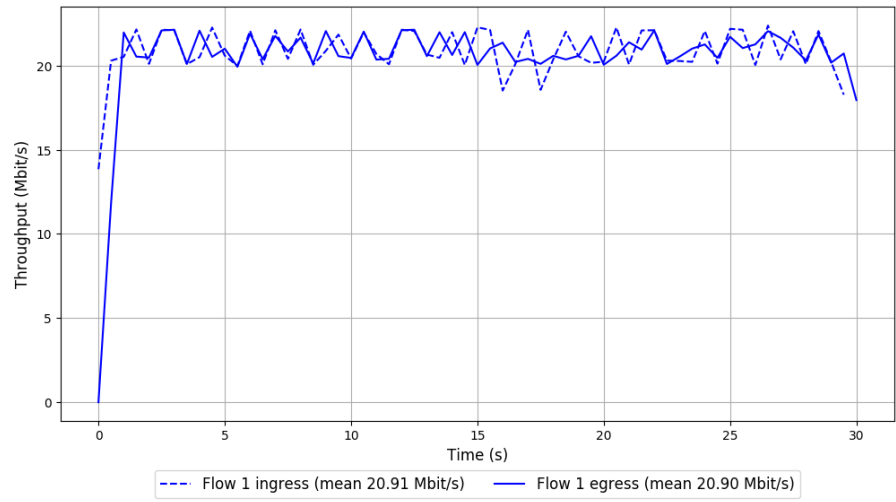


Run 1: Statistics of Sprout

Start at: 2018-06-05 19:48:09
End at: 2018-06-05 19:48:39
Local clock offset: -0.794 ms
Remote clock offset: -2.458 ms

Below is generated by plot.py at 2018-06-05 22:54:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.90 Mbit/s
95th percentile per-packet one-way delay: 20.794 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 20.90 Mbit/s
95th percentile per-packet one-way delay: 20.794 ms
Loss rate: 0.14%

Run 1: Report of Sprout — Data Link

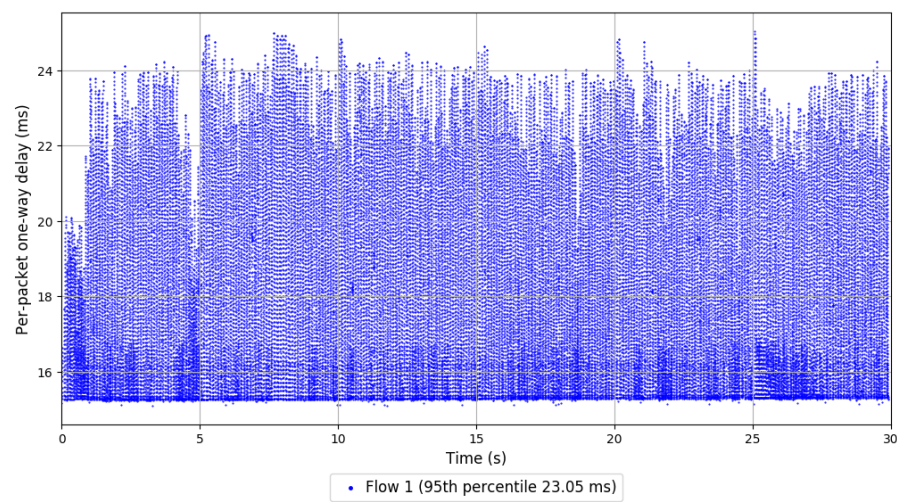
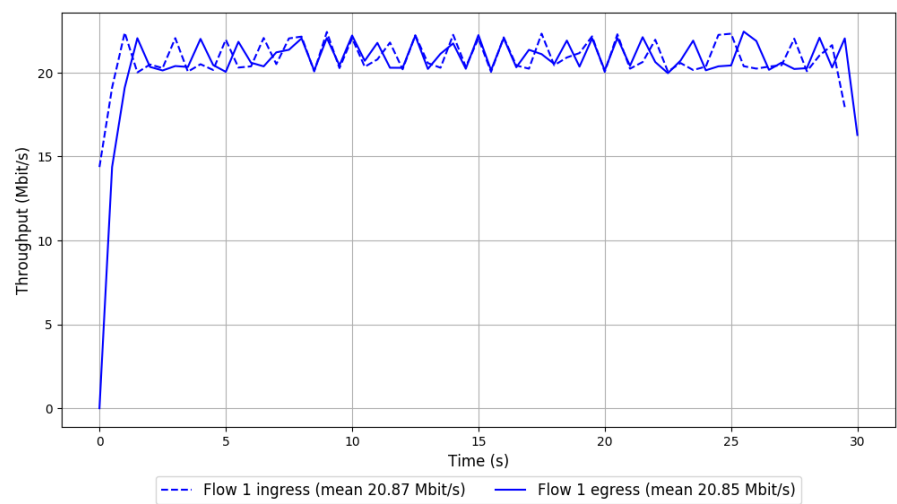


Run 2: Statistics of Sprout

Start at: 2018-06-05 20:06:39
End at: 2018-06-05 20:07:09
Local clock offset: 0.831 ms
Remote clock offset: -0.513 ms

Below is generated by plot.py at 2018-06-05 22:54:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.85 Mbit/s
95th percentile per-packet one-way delay: 23.050 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 20.85 Mbit/s
95th percentile per-packet one-way delay: 23.050 ms
Loss rate: 0.16%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-06-05 20:25:08

End at: 2018-06-05 20:25:38

Local clock offset: 0.05 ms

Remote clock offset: -0.12 ms

Below is generated by plot.py at 2018-06-05 22:54:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.18 Mbit/s

95th percentile per-packet one-way delay: 23.731 ms

Loss rate: 0.14%

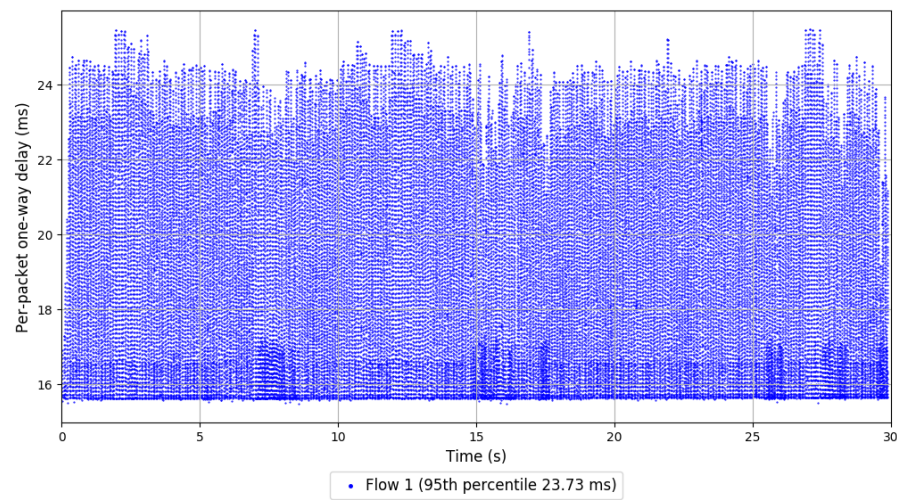
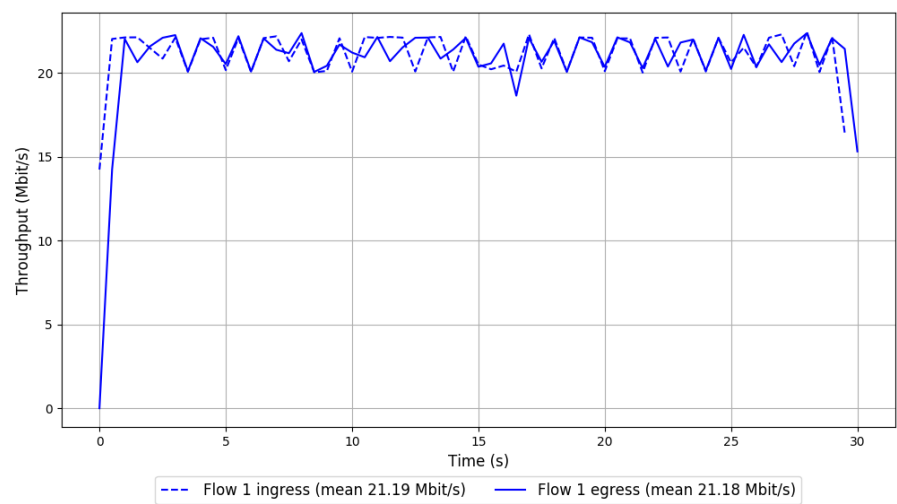
-- Flow 1:

Average throughput: 21.18 Mbit/s

95th percentile per-packet one-way delay: 23.731 ms

Loss rate: 0.14%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-06-05 20:43:53

End at: 2018-06-05 20:44:23

Local clock offset: -0.067 ms

Remote clock offset: 0.627 ms

Below is generated by plot.py at 2018-06-05 22:54:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.17 Mbit/s

95th percentile per-packet one-way delay: 24.229 ms

Loss rate: 0.06%

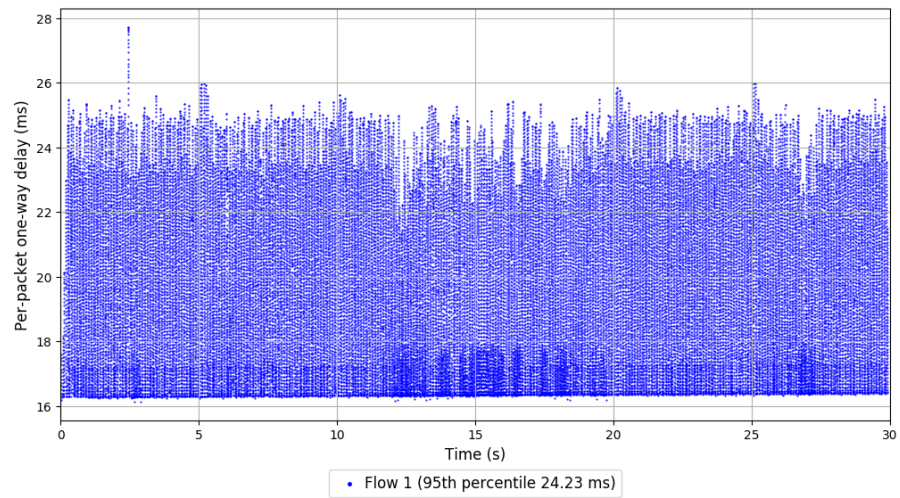
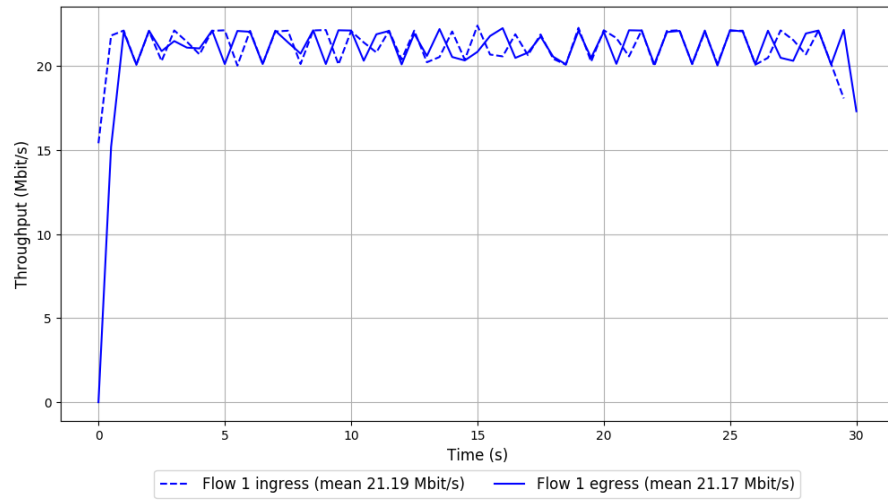
-- Flow 1:

Average throughput: 21.17 Mbit/s

95th percentile per-packet one-way delay: 24.229 ms

Loss rate: 0.06%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-06-05 21:02:30

End at: 2018-06-05 21:03:00

Local clock offset: -1.73 ms

Remote clock offset: 3.376 ms

Below is generated by plot.py at 2018-06-05 22:54:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.99 Mbit/s

95th percentile per-packet one-way delay: 22.768 ms

Loss rate: 0.16%

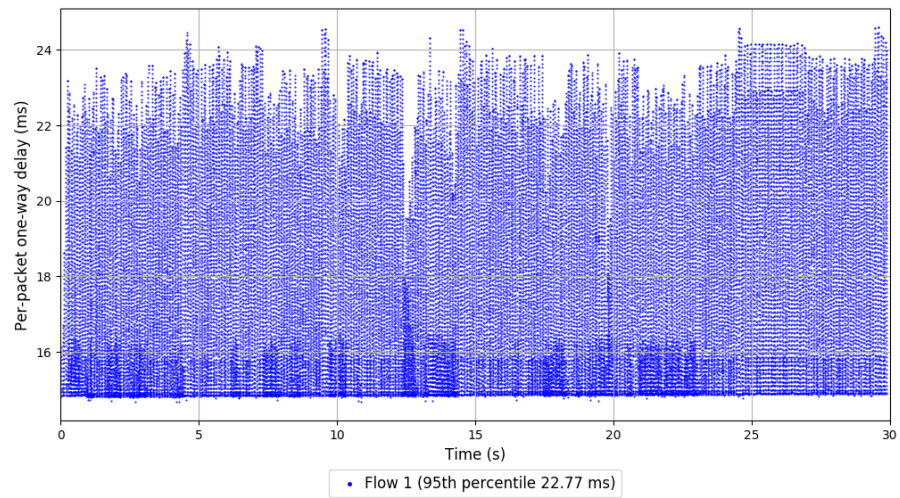
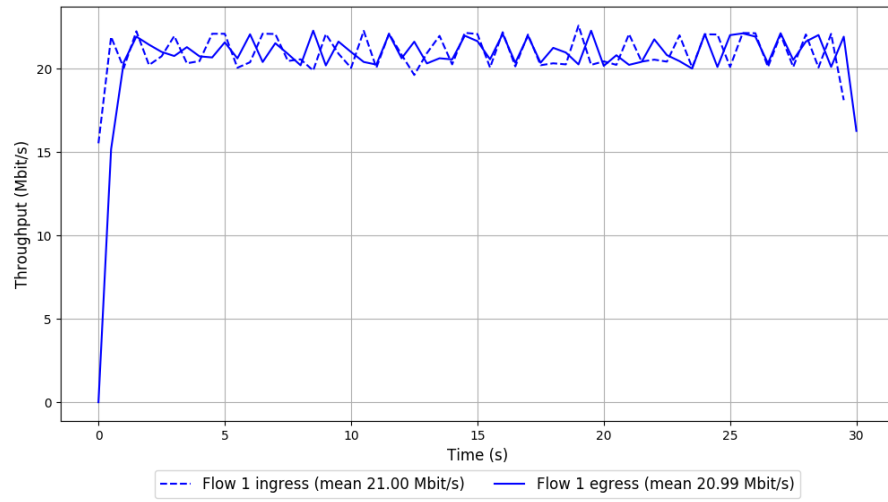
-- Flow 1:

Average throughput: 20.99 Mbit/s

95th percentile per-packet one-way delay: 22.768 ms

Loss rate: 0.16%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-06-05 21:20:54

End at: 2018-06-05 21:21:24

Local clock offset: -0.799 ms

Remote clock offset: 5.127 ms

Below is generated by plot.py at 2018-06-05 22:54:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.92 Mbit/s

95th percentile per-packet one-way delay: 24.052 ms

Loss rate: 0.00%

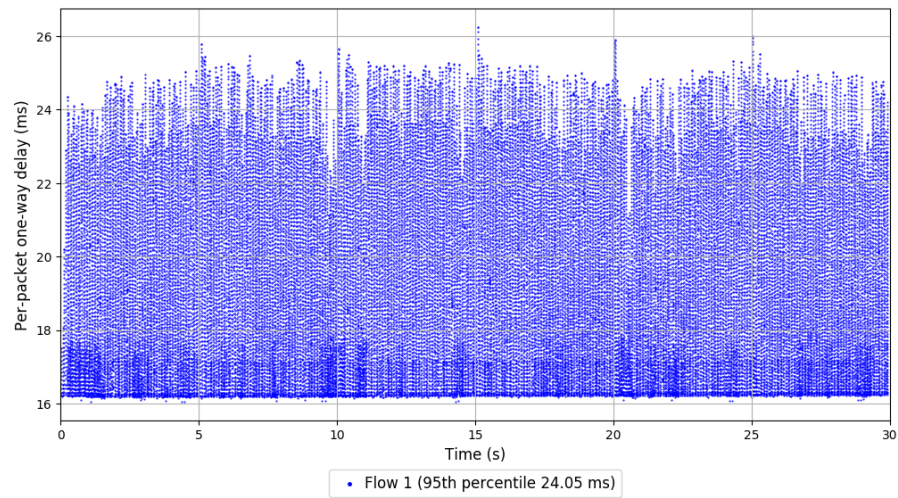
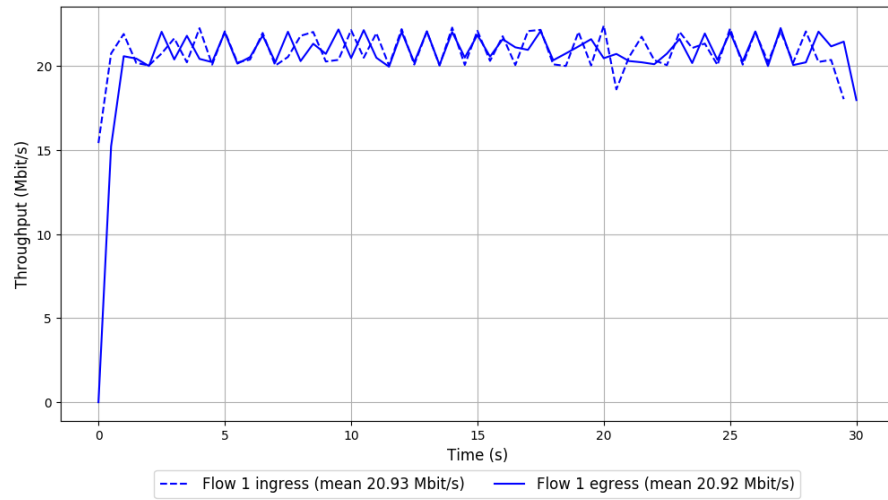
-- Flow 1:

Average throughput: 20.92 Mbit/s

95th percentile per-packet one-way delay: 24.052 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

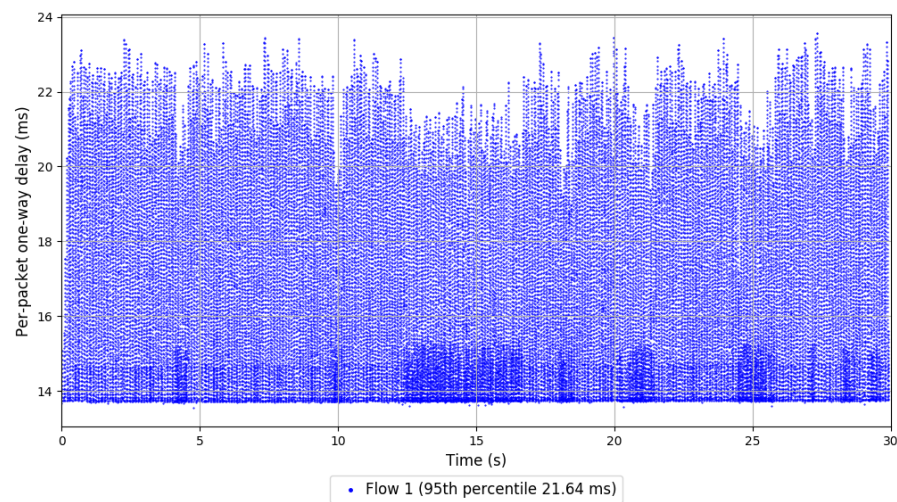
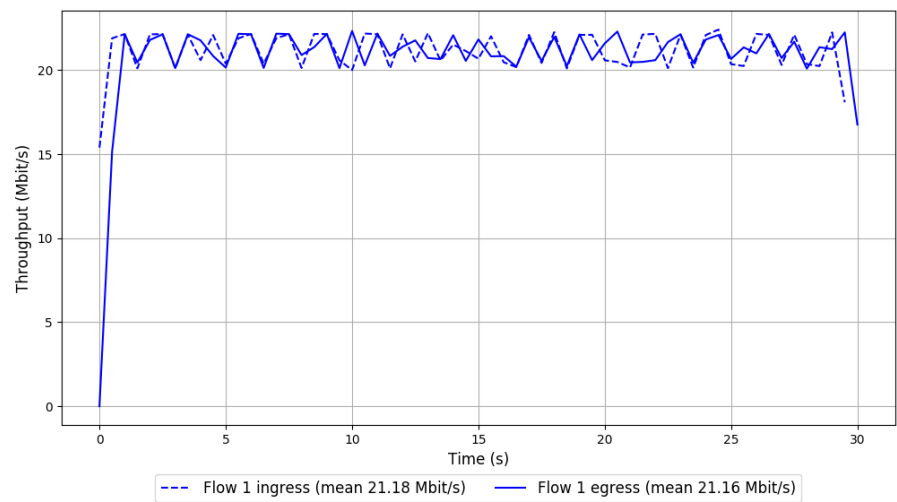


Run 7: Statistics of Sprout

Start at: 2018-06-05 21:39:38
End at: 2018-06-05 21:40:08
Local clock offset: -2.42 ms
Remote clock offset: 7.66 ms

Below is generated by plot.py at 2018-06-05 22:54:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 21.16 Mbit/s
95th percentile per-packet one-way delay: 21.644 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 21.16 Mbit/s
95th percentile per-packet one-way delay: 21.644 ms
Loss rate: 0.10%

Run 7: Report of Sprout — Data Link

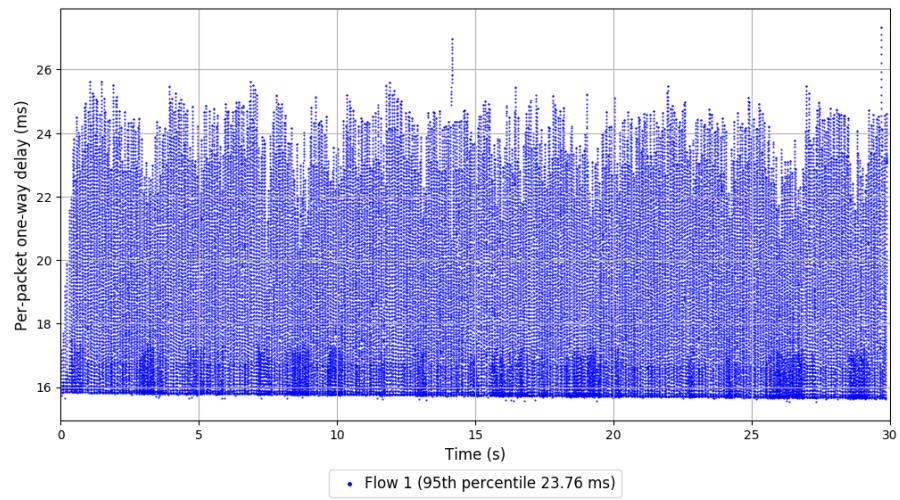
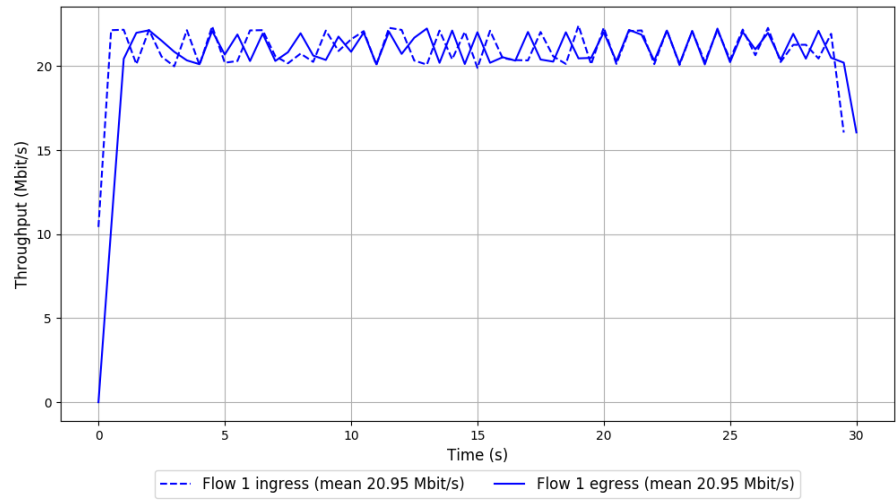


Run 8: Statistics of Sprout

Start at: 2018-06-05 21:58:11
End at: 2018-06-05 21:58:41
Local clock offset: -0.998 ms
Remote clock offset: 1.728 ms

Below is generated by plot.py at 2018-06-05 22:54:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.95 Mbit/s
95th percentile per-packet one-way delay: 23.762 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 20.95 Mbit/s
95th percentile per-packet one-way delay: 23.762 ms
Loss rate: 0.16%

Run 8: Report of Sprout — Data Link

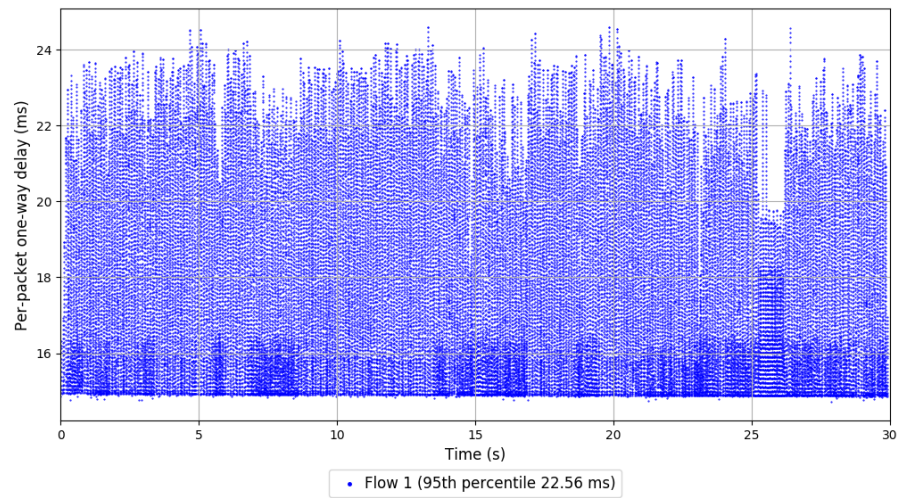
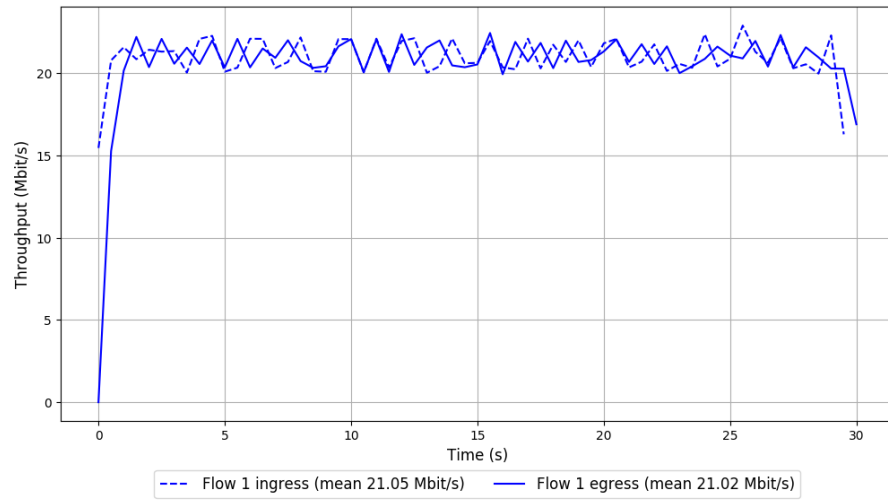


Run 9: Statistics of Sprout

Start at: 2018-06-05 22:16:33
End at: 2018-06-05 22:17:03
Local clock offset: 0.156 ms
Remote clock offset: -0.098 ms

Below is generated by plot.py at 2018-06-05 22:54:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 21.02 Mbit/s
95th percentile per-packet one-way delay: 22.558 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 21.02 Mbit/s
95th percentile per-packet one-way delay: 22.558 ms
Loss rate: 0.11%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-06-05 22:35:00

End at: 2018-06-05 22:35:30

Local clock offset: 1.028 ms

Remote clock offset: -8.646 ms

Below is generated by plot.py at 2018-06-05 22:54:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.15 Mbit/s

95th percentile per-packet one-way delay: 24.123 ms

Loss rate: 0.16%

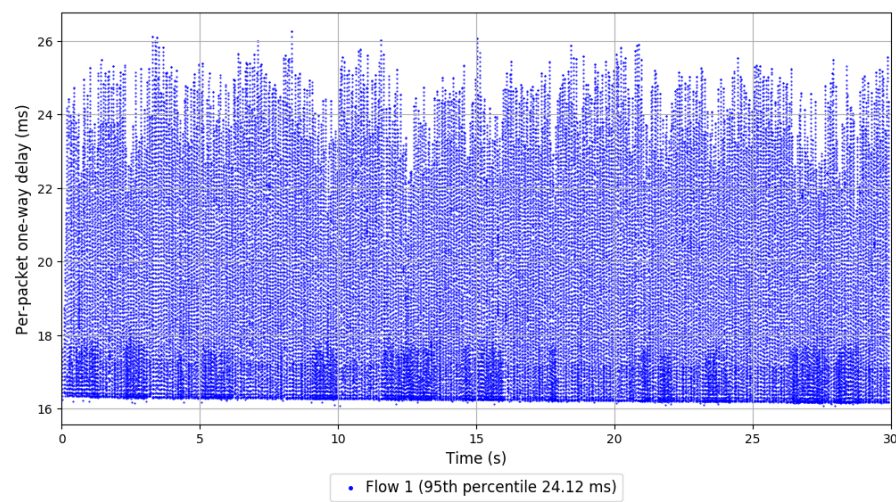
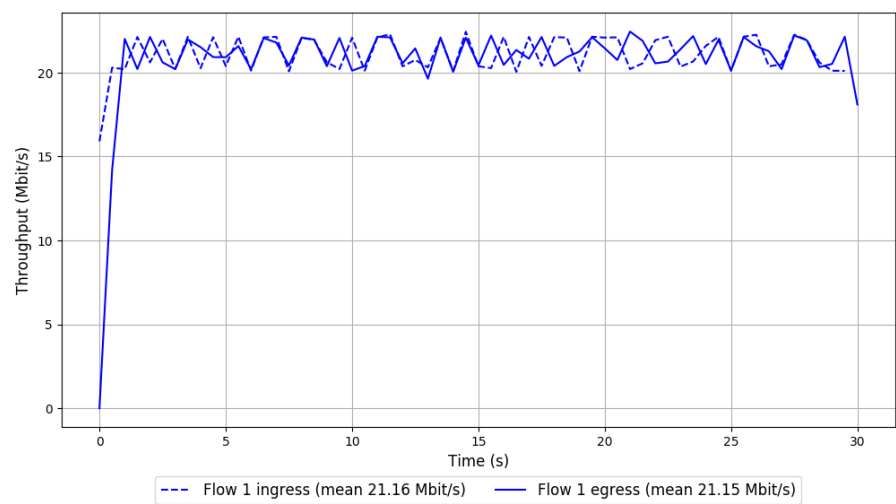
-- Flow 1:

Average throughput: 21.15 Mbit/s

95th percentile per-packet one-way delay: 24.123 ms

Loss rate: 0.16%

Run 10: Report of Sprout — Data Link

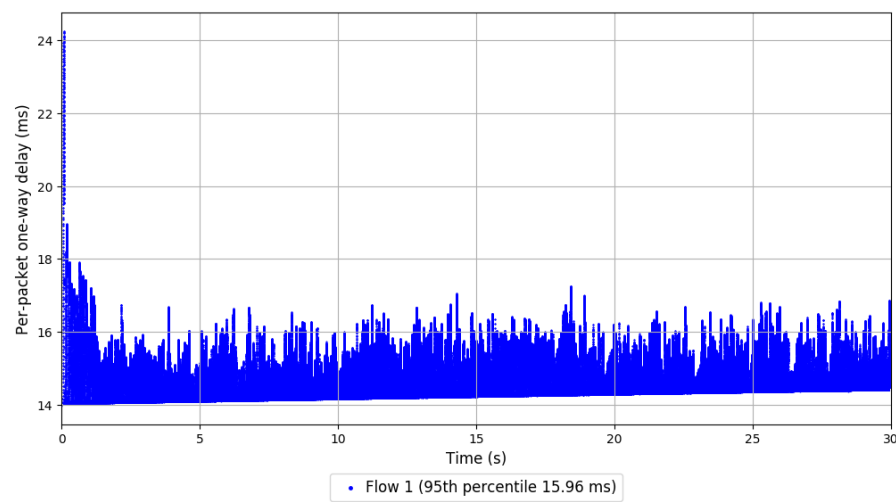
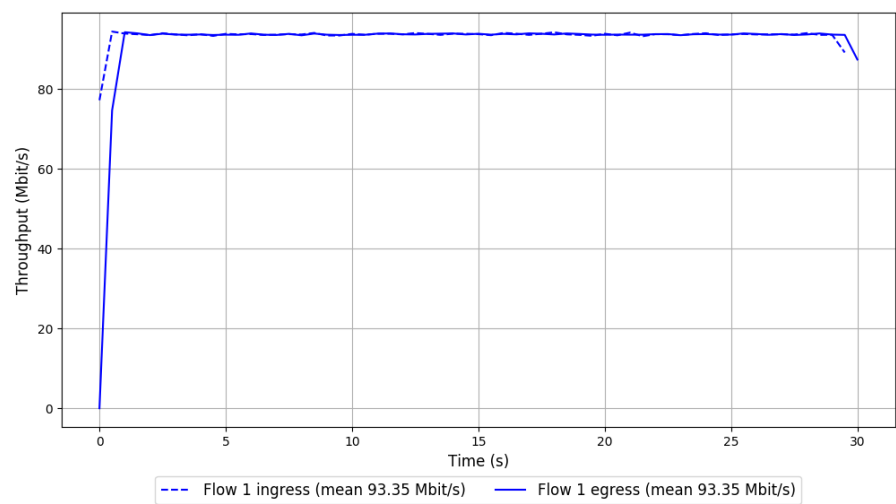


Run 1: Statistics of TaoVA-100x

Start at: 2018-06-05 19:36:17
End at: 2018-06-05 19:36:47
Local clock offset: -0.463 ms
Remote clock offset: -8.472 ms

Below is generated by plot.py at 2018-06-05 22:56:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.35 Mbit/s
95th percentile per-packet one-way delay: 15.962 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 93.35 Mbit/s
95th percentile per-packet one-way delay: 15.962 ms
Loss rate: 0.08%

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

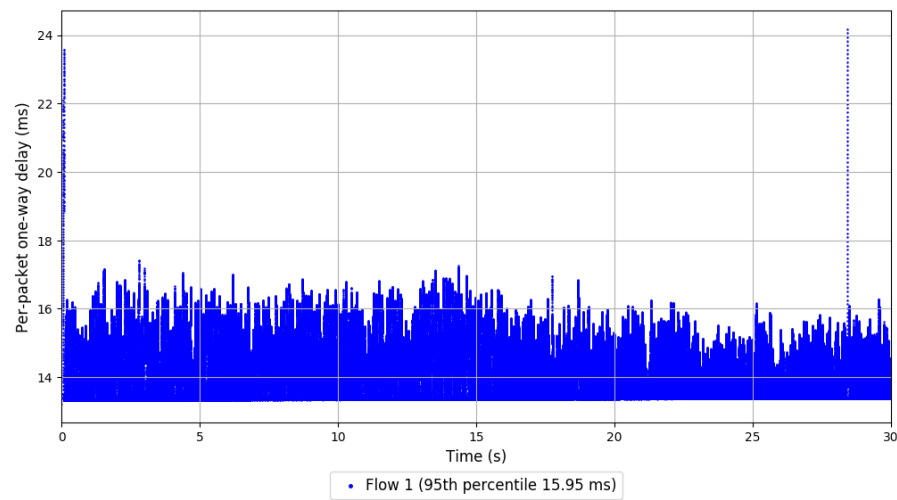
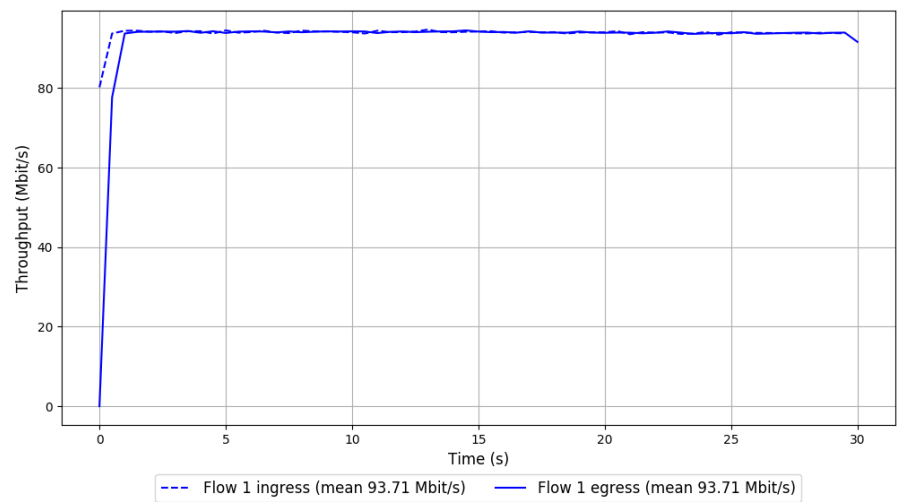


Run 2: Statistics of TaoVA-100x

Start at: 2018-06-05 19:55:00
End at: 2018-06-05 19:55:30
Local clock offset: -1.378 ms
Remote clock offset: -2.257 ms

Below is generated by plot.py at 2018-06-05 22:56:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.71 Mbit/s
95th percentile per-packet one-way delay: 15.947 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 93.71 Mbit/s
95th percentile per-packet one-way delay: 15.947 ms
Loss rate: 0.08%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-06-05 20:13:29

End at: 2018-06-05 20:13:59

Local clock offset: 0.471 ms

Remote clock offset: -2.039 ms

Below is generated by plot.py at 2018-06-05 22:56:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.58 Mbit/s

95th percentile per-packet one-way delay: 17.955 ms

Loss rate: 0.08%

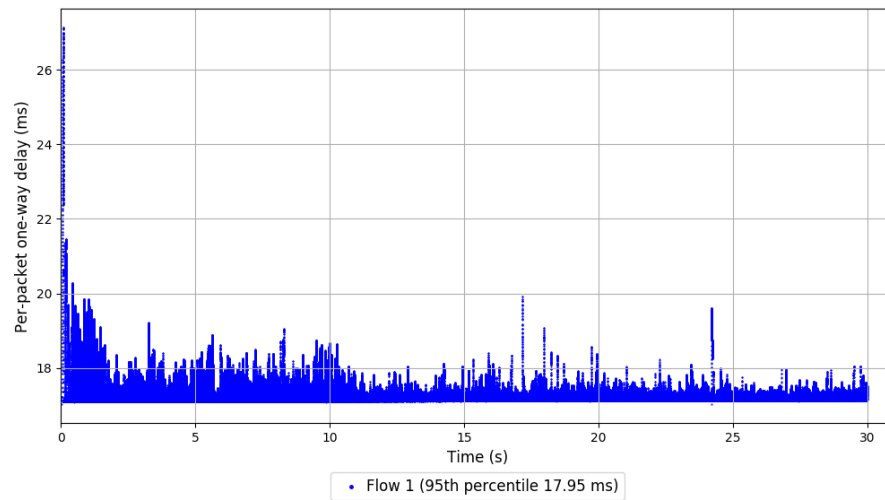
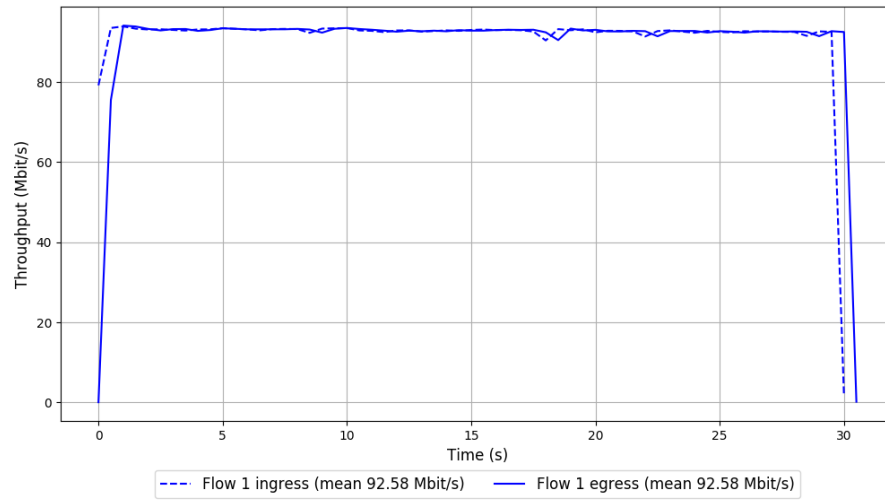
-- Flow 1:

Average throughput: 92.58 Mbit/s

95th percentile per-packet one-way delay: 17.955 ms

Loss rate: 0.08%

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

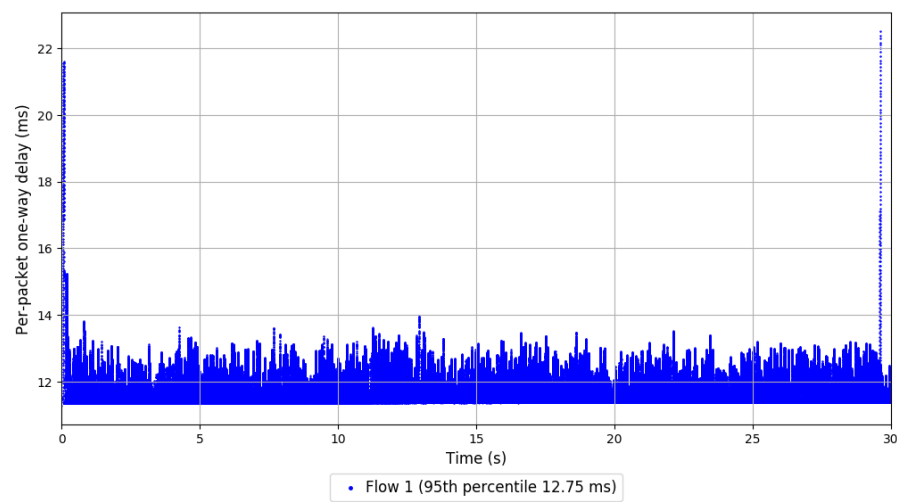
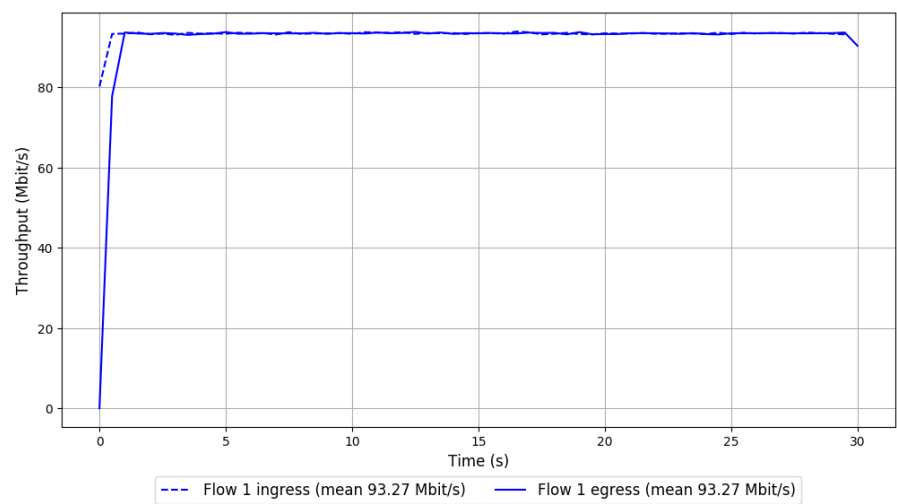


Run 4: Statistics of TaoVA-100x

Start at: 2018-06-05 20:32:07
End at: 2018-06-05 20:32:37
Local clock offset: -4.915 ms
Remote clock offset: -0.508 ms

Below is generated by plot.py at 2018-06-05 22:56:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.27 Mbit/s
95th percentile per-packet one-way delay: 12.749 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 93.27 Mbit/s
95th percentile per-packet one-way delay: 12.749 ms
Loss rate: 0.09%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-06-05 20:50:54

End at: 2018-06-05 20:51:24

Local clock offset: -1.016 ms

Remote clock offset: 1.902 ms

Below is generated by plot.py at 2018-06-05 22:56:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.68 Mbit/s

95th percentile per-packet one-way delay: 17.956 ms

Loss rate: 0.09%

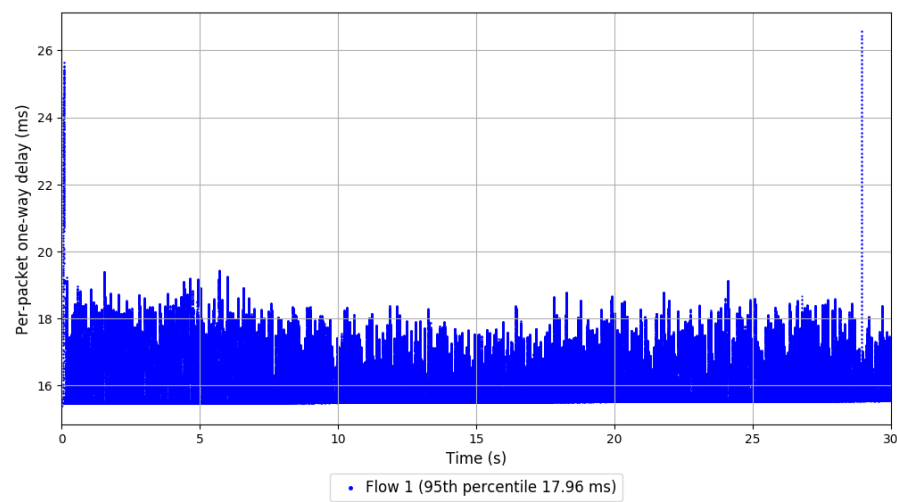
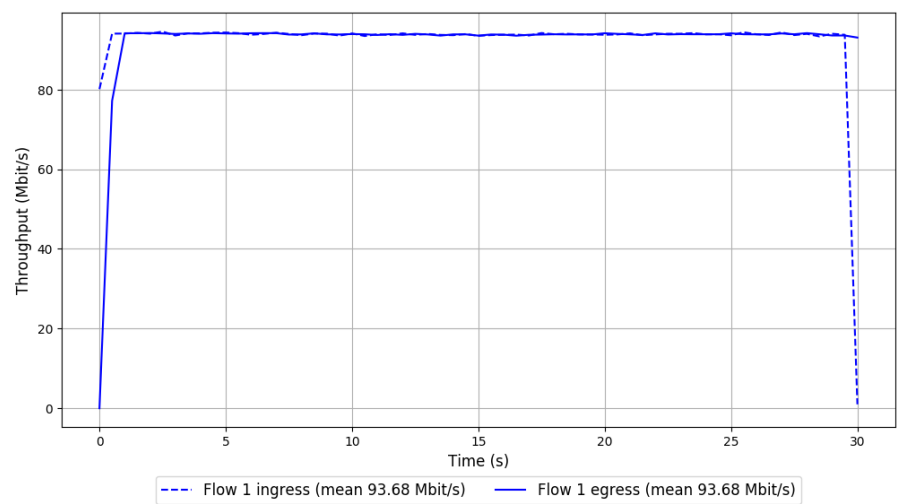
-- Flow 1:

Average throughput: 93.68 Mbit/s

95th percentile per-packet one-way delay: 17.956 ms

Loss rate: 0.09%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-06-05 21:09:16

End at: 2018-06-05 21:09:46

Local clock offset: -1.072 ms

Remote clock offset: 4.928 ms

Below is generated by plot.py at 2018-06-05 22:56:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.78 Mbit/s

95th percentile per-packet one-way delay: 15.762 ms

Loss rate: 0.08%

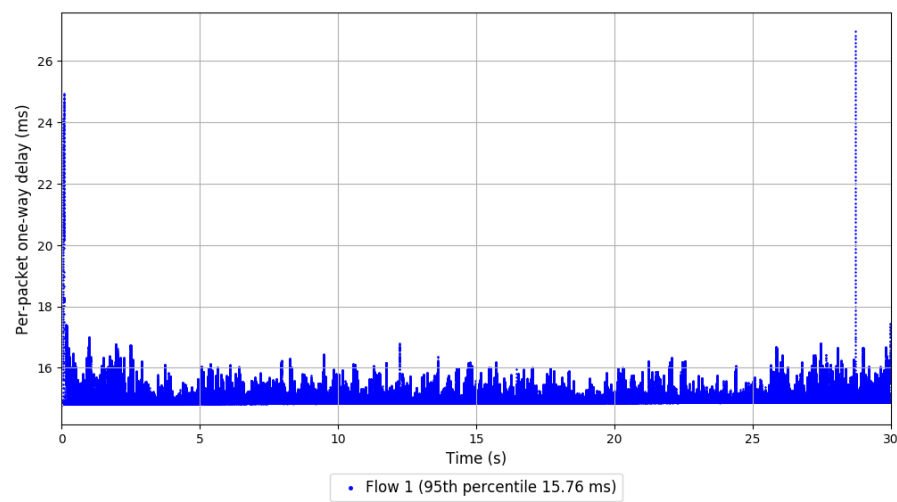
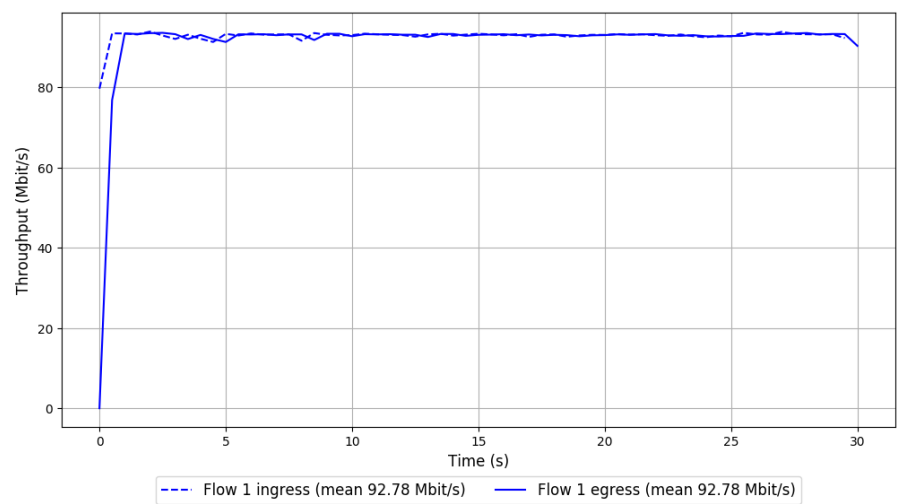
-- Flow 1:

Average throughput: 92.78 Mbit/s

95th percentile per-packet one-way delay: 15.762 ms

Loss rate: 0.08%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-06-05 21:27:47

End at: 2018-06-05 21:28:17

Local clock offset: -2.432 ms

Remote clock offset: 5.729 ms

Below is generated by plot.py at 2018-06-05 22:56:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.02 Mbit/s

95th percentile per-packet one-way delay: 15.885 ms

Loss rate: 0.08%

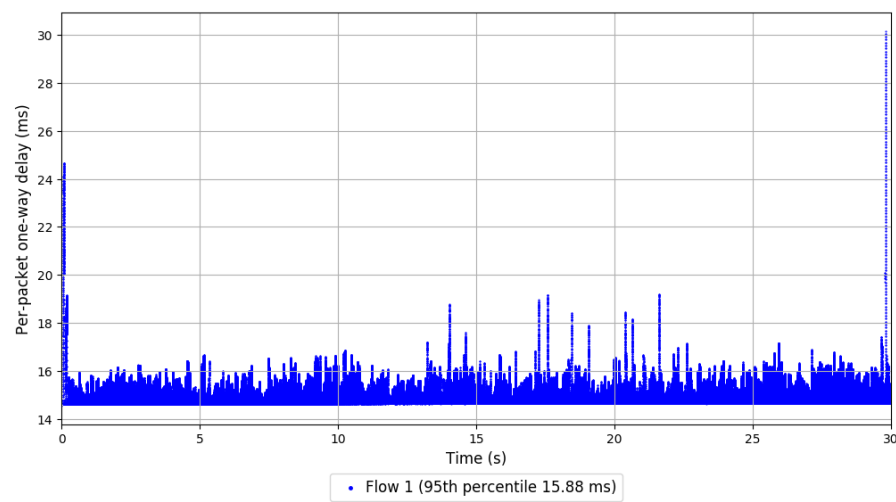
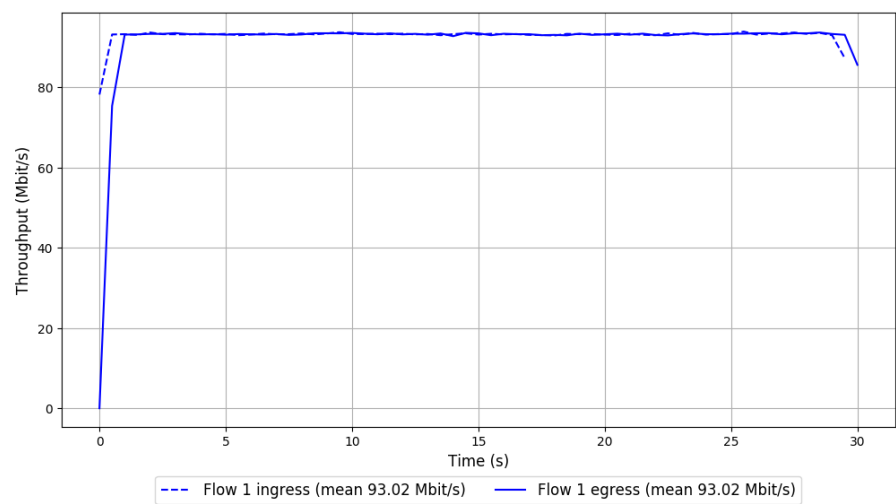
-- Flow 1:

Average throughput: 93.02 Mbit/s

95th percentile per-packet one-way delay: 15.885 ms

Loss rate: 0.08%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-06-05 21:46:33

End at: 2018-06-05 21:47:03

Local clock offset: 0.776 ms

Remote clock offset: 8.706 ms

Below is generated by plot.py at 2018-06-05 22:56:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.75 Mbit/s

95th percentile per-packet one-way delay: 19.525 ms

Loss rate: 0.09%

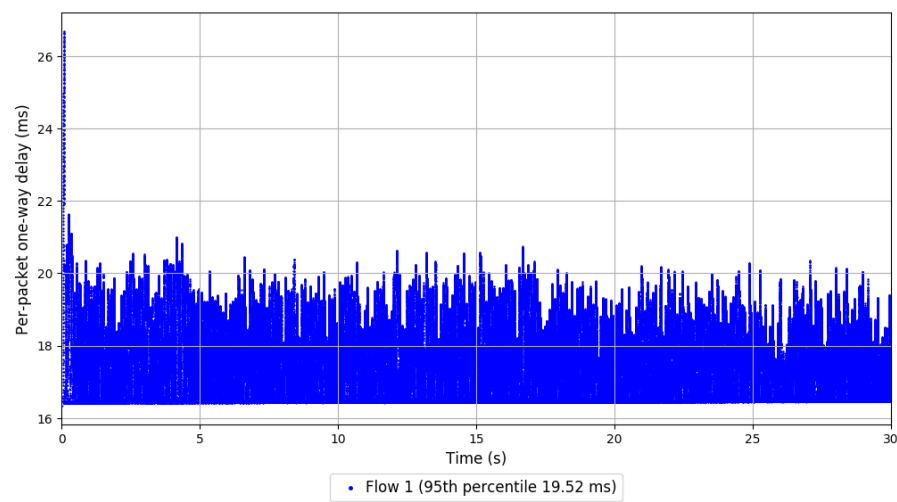
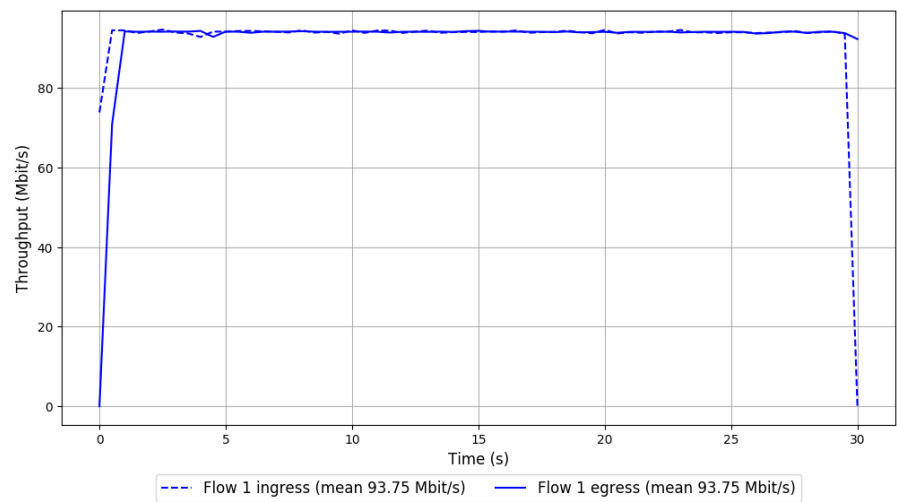
-- Flow 1:

Average throughput: 93.75 Mbit/s

95th percentile per-packet one-way delay: 19.525 ms

Loss rate: 0.09%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-06-05 22:04:56

End at: 2018-06-05 22:05:27

Local clock offset: -0.899 ms

Remote clock offset: 1.691 ms

Below is generated by plot.py at 2018-06-05 22:58:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.80 Mbit/s

95th percentile per-packet one-way delay: 16.885 ms

Loss rate: 0.09%

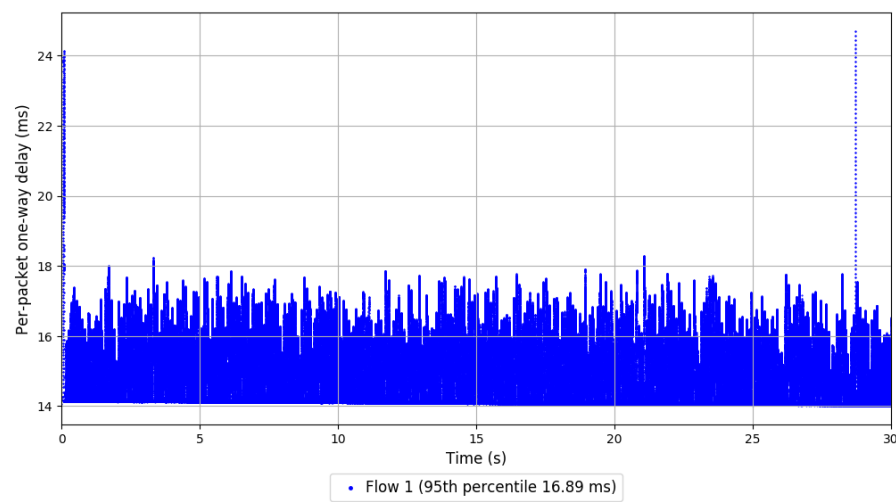
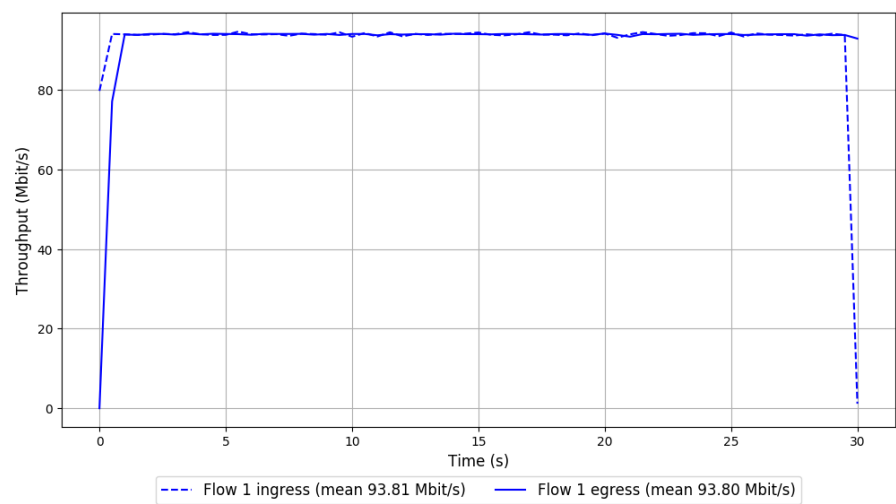
-- Flow 1:

Average throughput: 93.80 Mbit/s

95th percentile per-packet one-way delay: 16.885 ms

Loss rate: 0.09%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-06-05 22:23:25

End at: 2018-06-05 22:23:55

Local clock offset: -1.026 ms

Remote clock offset: -2.502 ms

Below is generated by plot.py at 2018-06-05 22:58:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.41 Mbit/s

95th percentile per-packet one-way delay: 16.661 ms

Loss rate: 0.08%

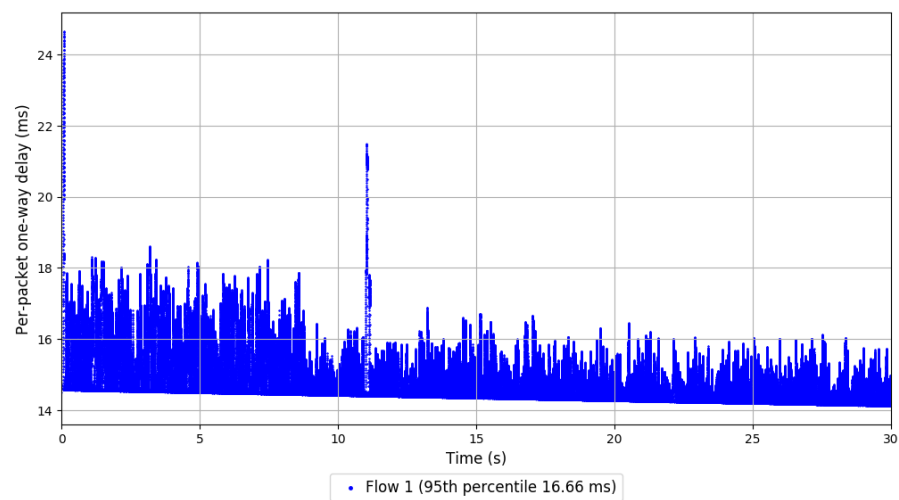
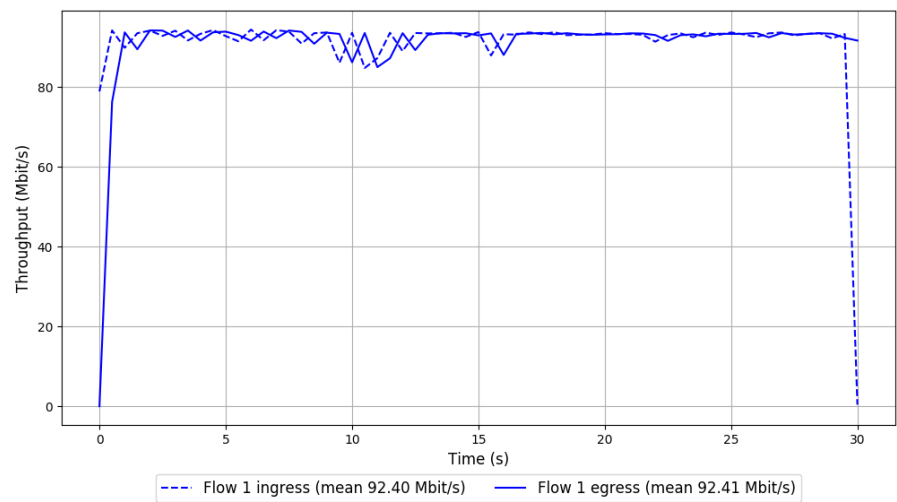
-- Flow 1:

Average throughput: 92.41 Mbit/s

95th percentile per-packet one-way delay: 16.661 ms

Loss rate: 0.08%

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

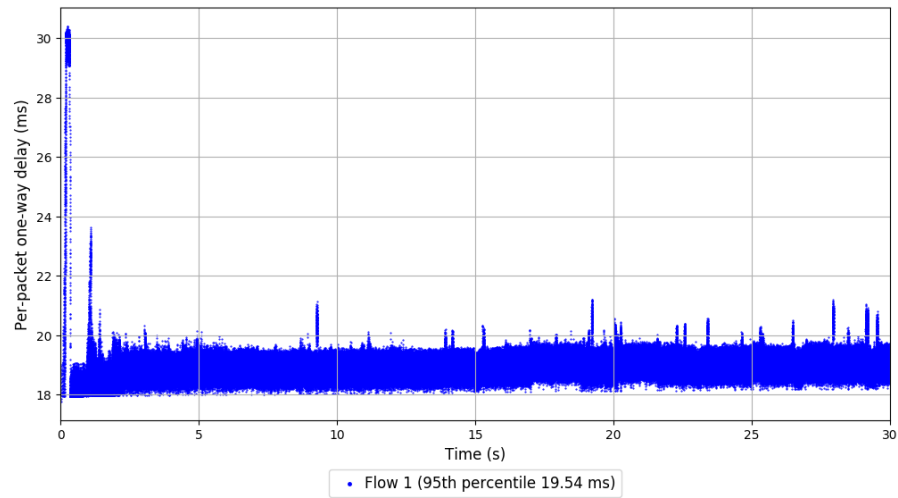
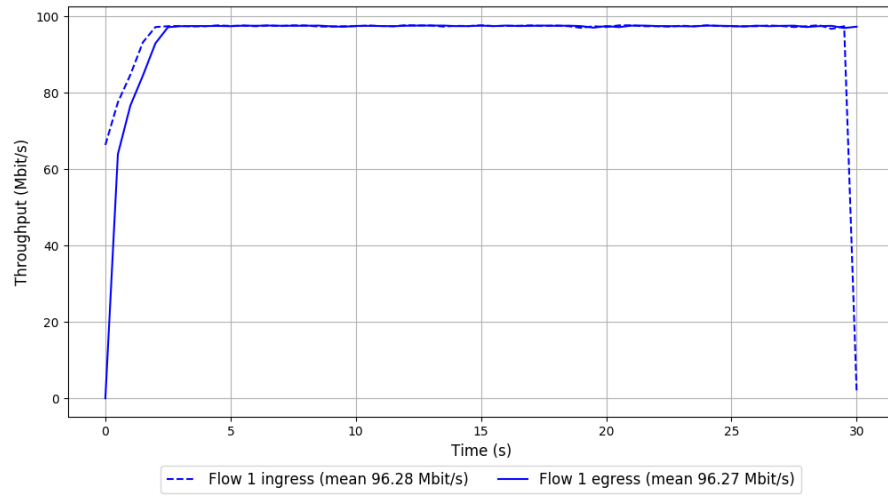


Run 1: Statistics of TCP Vegas

Start at: 2018-06-05 19:40:07
End at: 2018-06-05 19:40:37
Local clock offset: 2.273 ms
Remote clock offset: -7.178 ms

Below is generated by plot.py at 2018-06-05 22:58:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 19.539 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 19.539 ms
Loss rate: 0.09%

Run 1: Report of TCP Vegas — Data Link

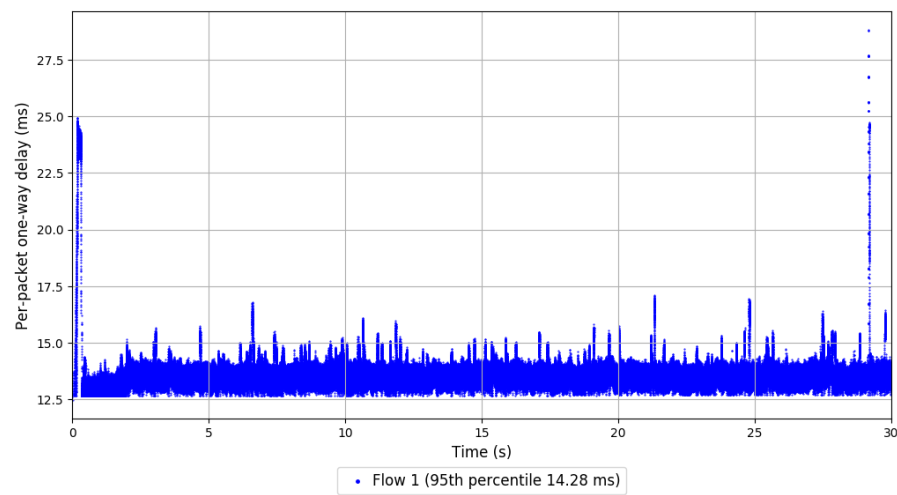
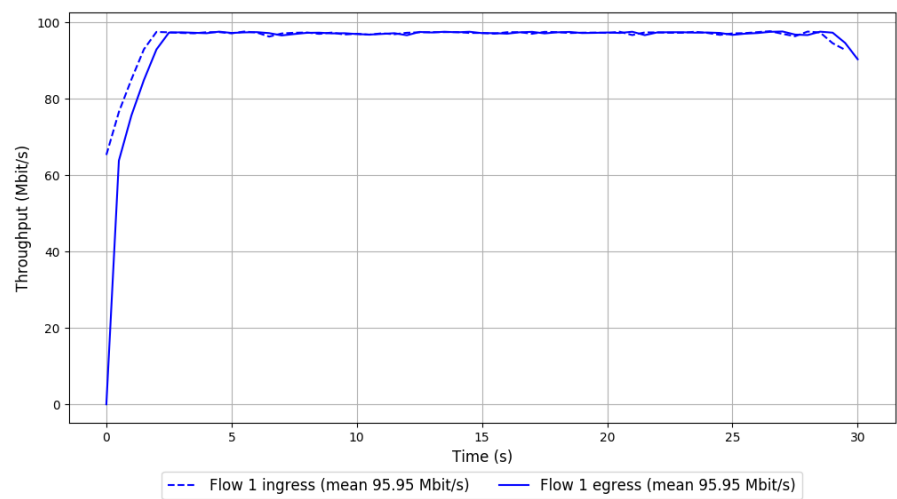


Run 2: Statistics of TCP Vegas

Start at: 2018-06-05 19:58:35
End at: 2018-06-05 19:59:05
Local clock offset: -1.214 ms
Remote clock offset: -0.997 ms

Below is generated by plot.py at 2018-06-05 22:58:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.95 Mbit/s
95th percentile per-packet one-way delay: 14.277 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 95.95 Mbit/s
95th percentile per-packet one-way delay: 14.277 ms
Loss rate: 0.09%

Run 2: Report of TCP Vegas — Data Link

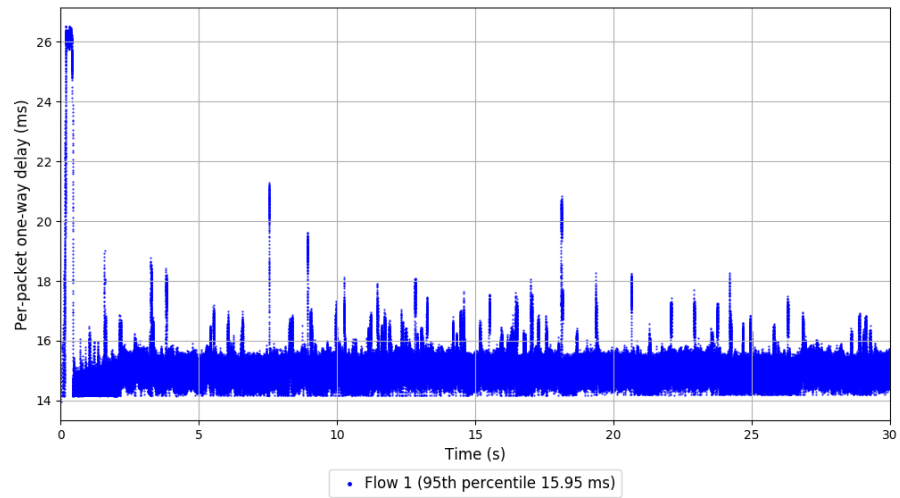
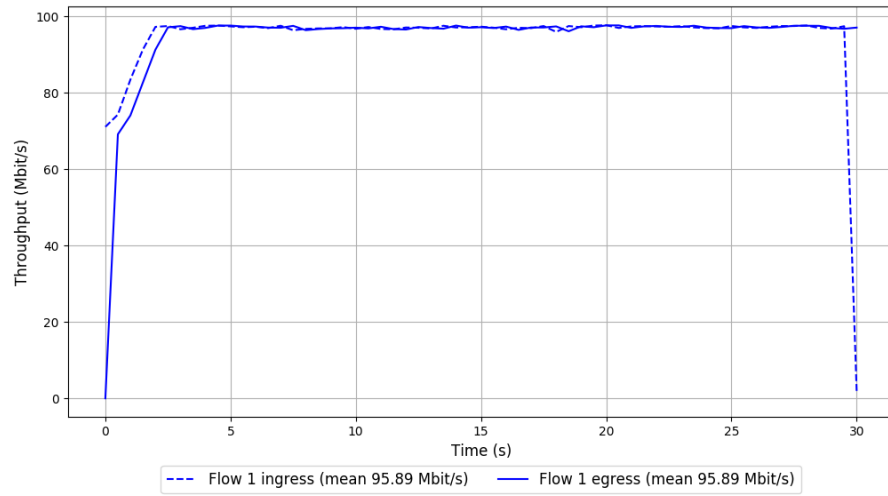


Run 3: Statistics of TCP Vegas

Start at: 2018-06-05 20:17:03
End at: 2018-06-05 20:17:33
Local clock offset: -2.034 ms
Remote clock offset: -1.317 ms

Below is generated by plot.py at 2018-06-05 22:58:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.89 Mbit/s
95th percentile per-packet one-way delay: 15.946 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 95.89 Mbit/s
95th percentile per-packet one-way delay: 15.946 ms
Loss rate: 0.09%

Run 3: Report of TCP Vegas — Data Link

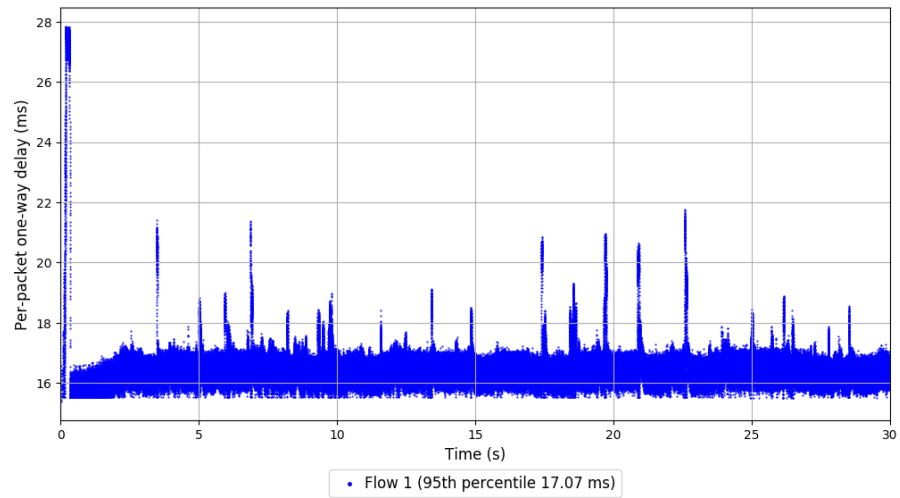
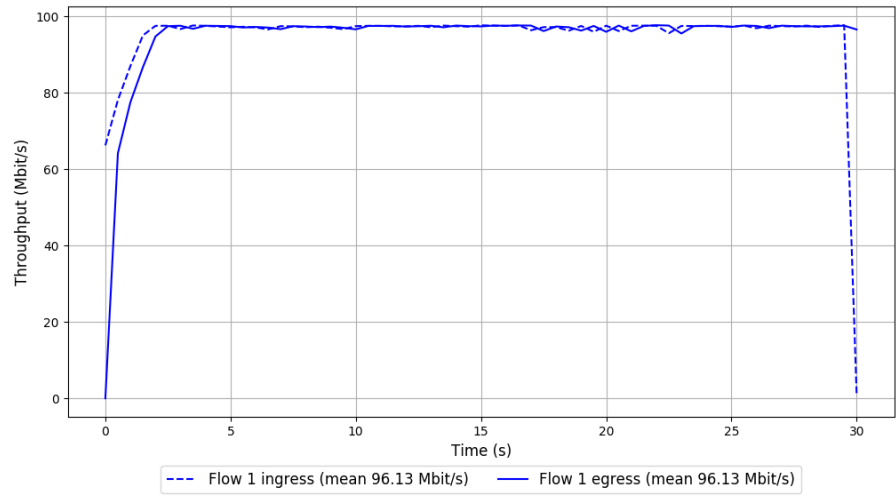


Run 4: Statistics of TCP Vegas

Start at: 2018-06-05 20:35:41
End at: 2018-06-05 20:36:11
Local clock offset: -0.676 ms
Remote clock offset: -0.421 ms

Below is generated by plot.py at 2018-06-05 22:58:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.13 Mbit/s
95th percentile per-packet one-way delay: 17.074 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.13 Mbit/s
95th percentile per-packet one-way delay: 17.074 ms
Loss rate: 0.09%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-06-05 20:54:32

End at: 2018-06-05 20:55:02

Local clock offset: -0.586 ms

Remote clock offset: 3.508 ms

Below is generated by plot.py at 2018-06-05 22:58:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.64 Mbit/s

95th percentile per-packet one-way delay: 16.626 ms

Loss rate: 0.09%

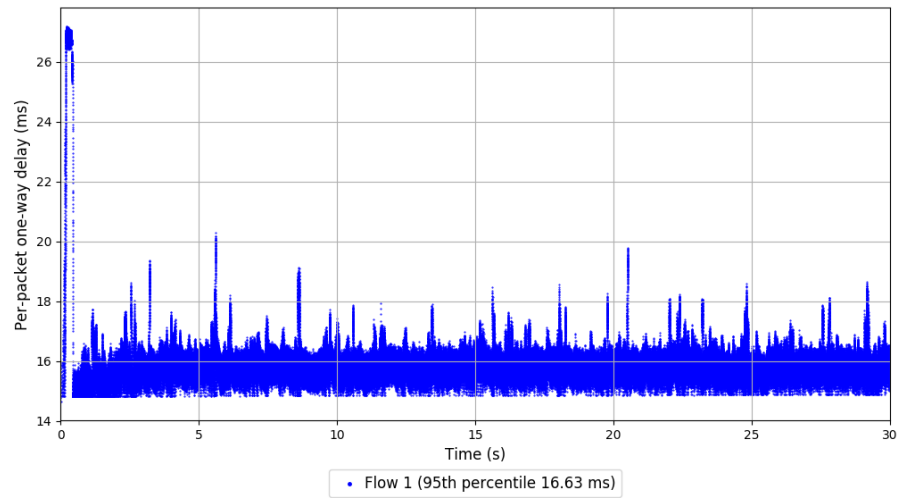
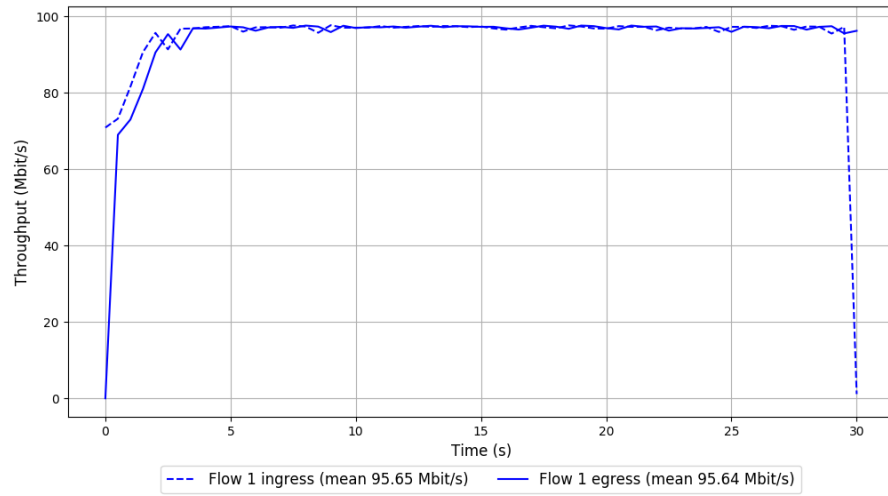
-- Flow 1:

Average throughput: 95.64 Mbit/s

95th percentile per-packet one-way delay: 16.626 ms

Loss rate: 0.09%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-06-05 21:12:51

End at: 2018-06-05 21:13:21

Local clock offset: -2.592 ms

Remote clock offset: 6.047 ms

Below is generated by plot.py at 2018-06-05 22:58:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.70 Mbit/s

95th percentile per-packet one-way delay: 14.531 ms

Loss rate: 0.09%

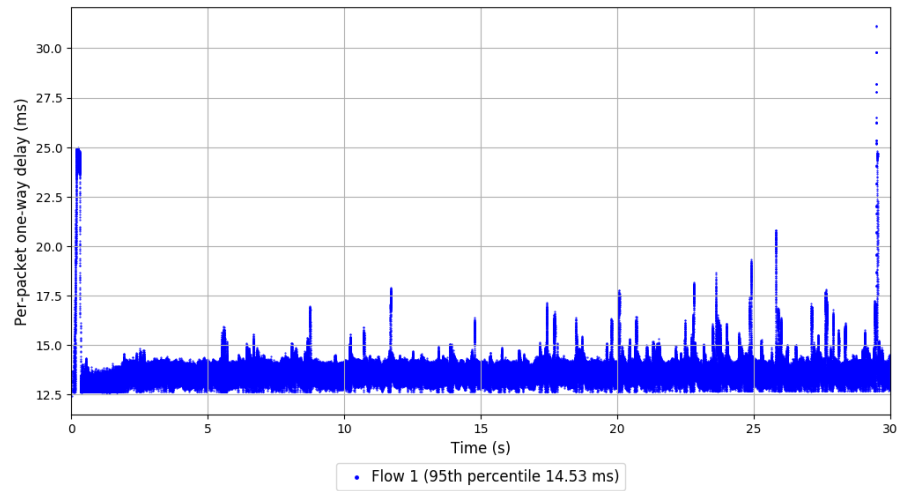
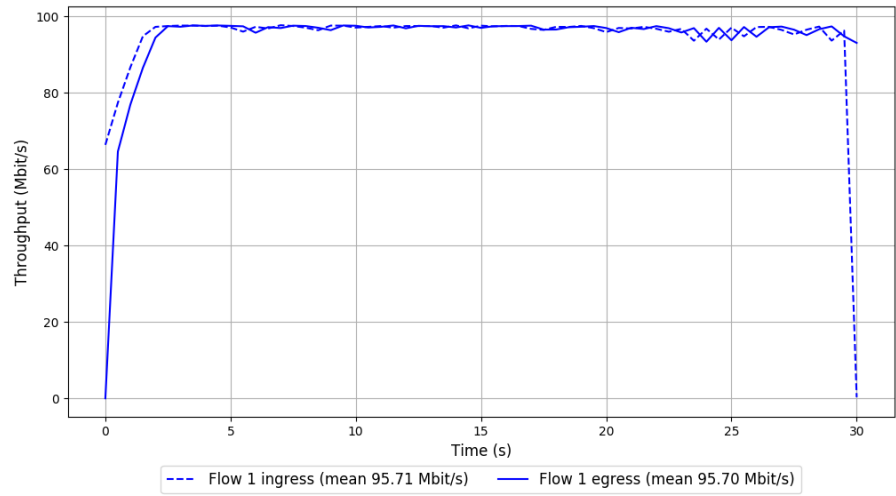
-- Flow 1:

Average throughput: 95.70 Mbit/s

95th percentile per-packet one-way delay: 14.531 ms

Loss rate: 0.09%

Run 6: Report of TCP Vegas — Data Link

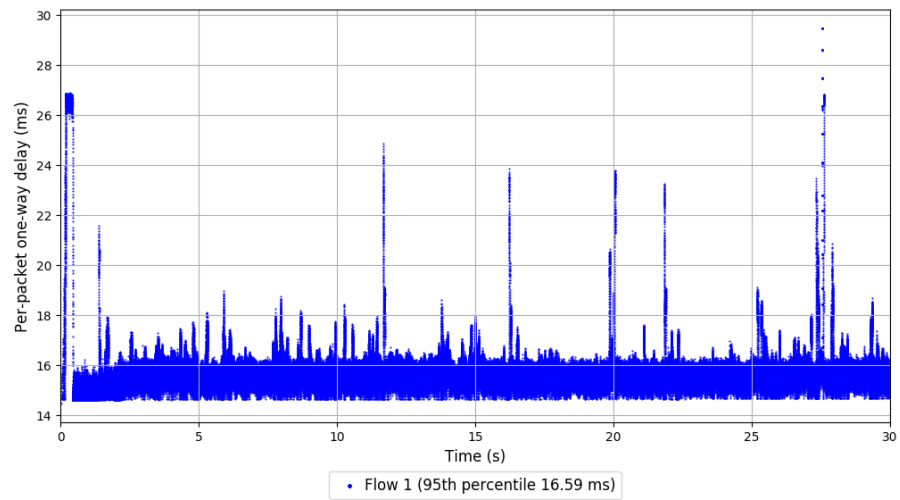
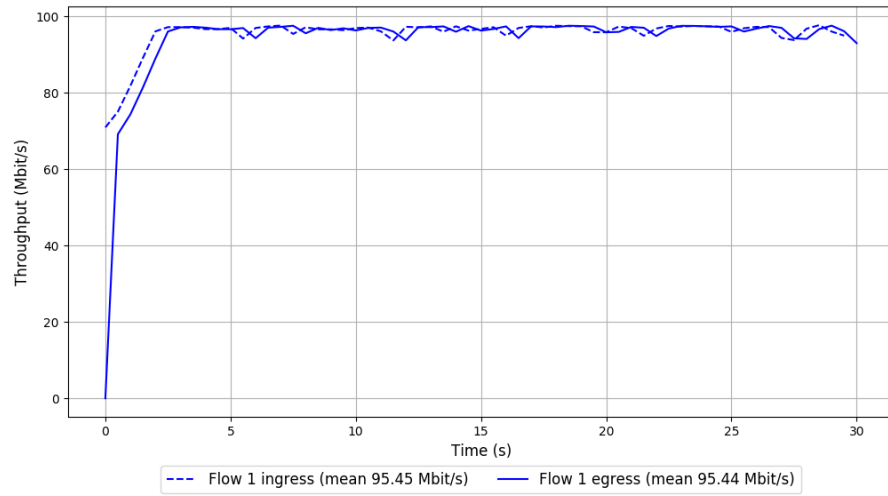


Run 7: Statistics of TCP Vegas

Start at: 2018-06-05 21:31:30
End at: 2018-06-05 21:32:00
Local clock offset: -1.416 ms
Remote clock offset: 7.108 ms

Below is generated by plot.py at 2018-06-05 22:58:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.44 Mbit/s
95th percentile per-packet one-way delay: 16.594 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 95.44 Mbit/s
95th percentile per-packet one-way delay: 16.594 ms
Loss rate: 0.09%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-06-05 21:50:11

End at: 2018-06-05 21:50:41

Local clock offset: -2.175 ms

Remote clock offset: 6.813 ms

Below is generated by plot.py at 2018-06-05 22:58:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.70 Mbit/s

95th percentile per-packet one-way delay: 15.451 ms

Loss rate: 0.09%

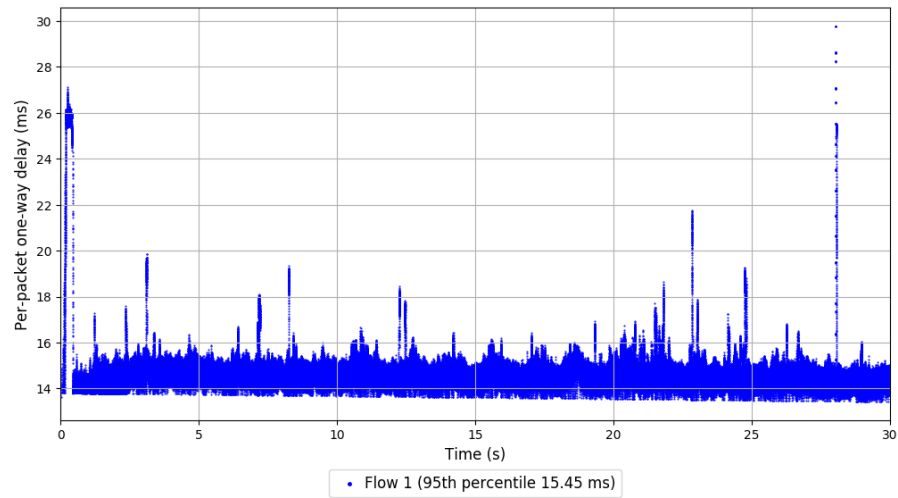
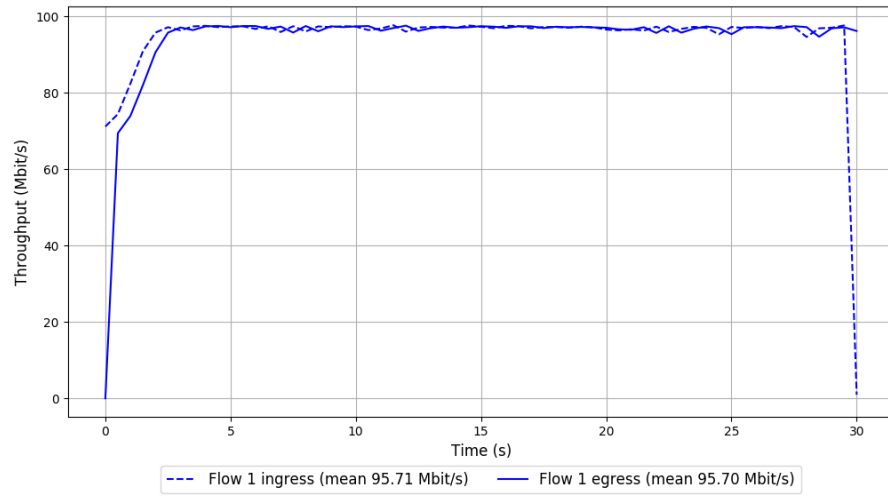
-- Flow 1:

Average throughput: 95.70 Mbit/s

95th percentile per-packet one-way delay: 15.451 ms

Loss rate: 0.09%

Run 8: Report of TCP Vegas — Data Link

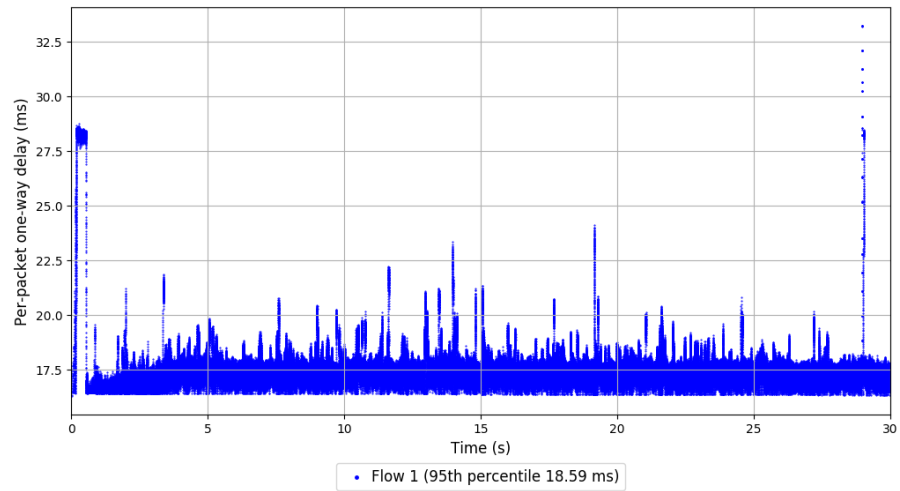
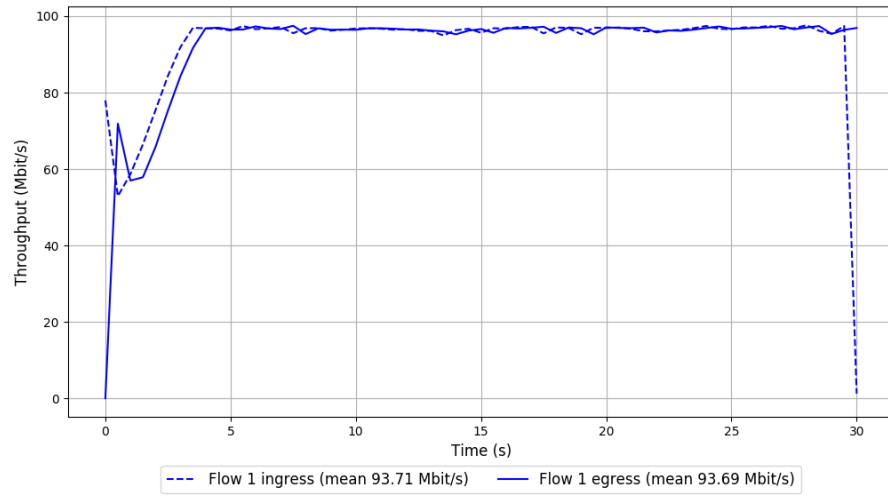


Run 9: Statistics of TCP Vegas

Start at: 2018-06-05 22:08:31
End at: 2018-06-05 22:09:01
Local clock offset: 0.461 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-06-05 22:58:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.69 Mbit/s
95th percentile per-packet one-way delay: 18.586 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 93.69 Mbit/s
95th percentile per-packet one-way delay: 18.586 ms
Loss rate: 0.10%

Run 9: Report of TCP Vegas — Data Link

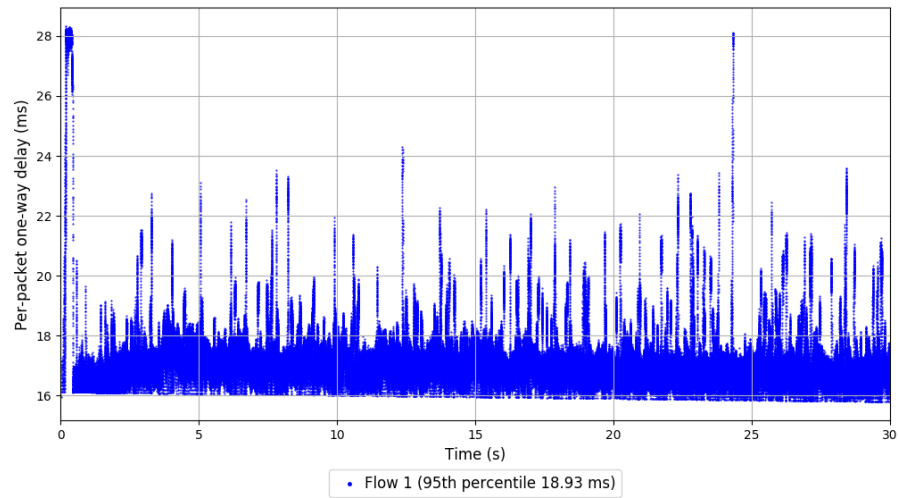
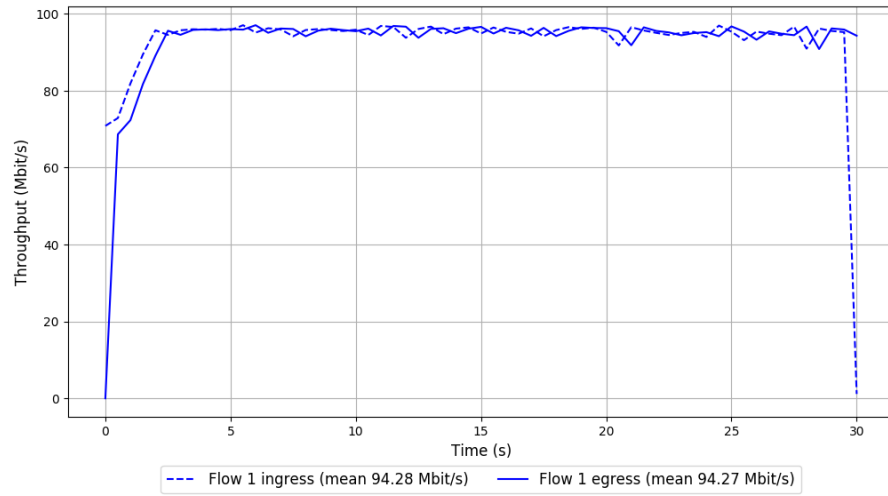


Run 10: Statistics of TCP Vegas

Start at: 2018-06-05 22:26:55
End at: 2018-06-05 22:27:25
Local clock offset: 1.019 ms
Remote clock offset: -4.725 ms

Below is generated by plot.py at 2018-06-05 22:58:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.27 Mbit/s
95th percentile per-packet one-way delay: 18.934 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 94.27 Mbit/s
95th percentile per-packet one-way delay: 18.934 ms
Loss rate: 0.09%

Run 10: Report of TCP Vegas — Data Link

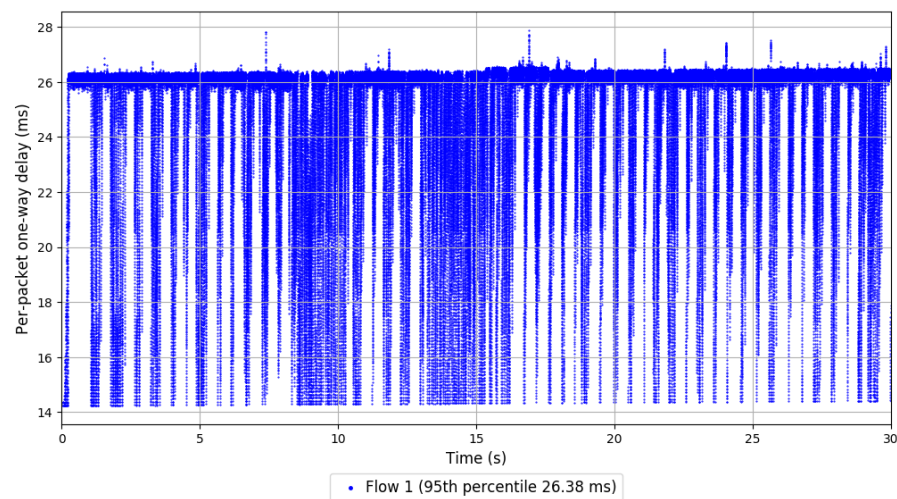
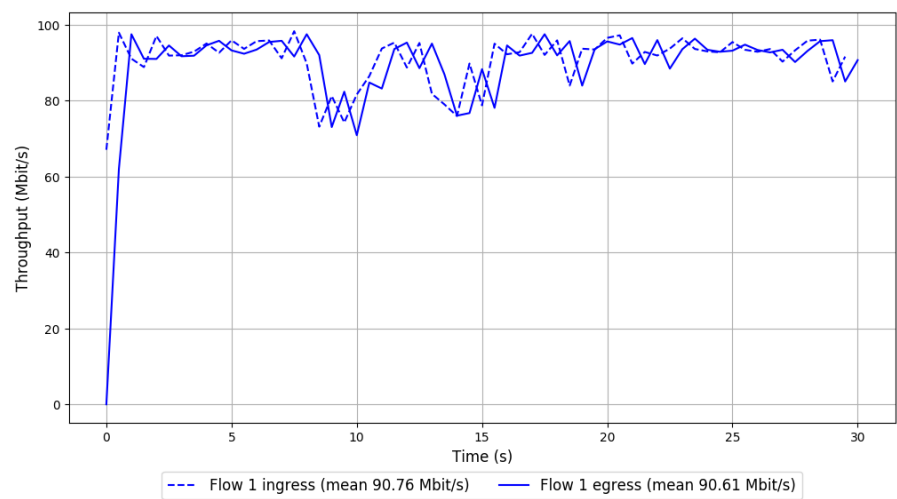


Run 1: Statistics of Verus

Start at: 2018-06-05 19:43:31
End at: 2018-06-05 19:44:01
Local clock offset: -0.982 ms
Remote clock offset: -5.239 ms

Below is generated by plot.py at 2018-06-05 22:58:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.61 Mbit/s
95th percentile per-packet one-way delay: 26.382 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 90.61 Mbit/s
95th percentile per-packet one-way delay: 26.382 ms
Loss rate: 0.23%

Run 1: Report of Verus — Data Link

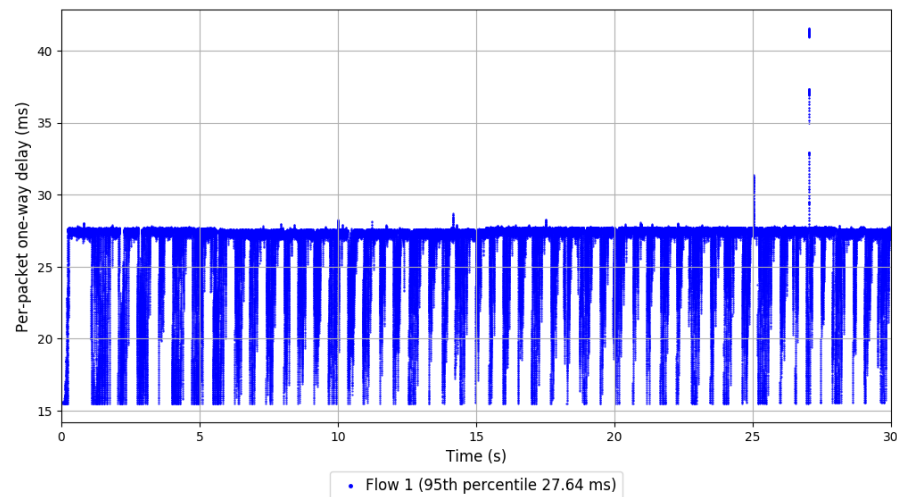
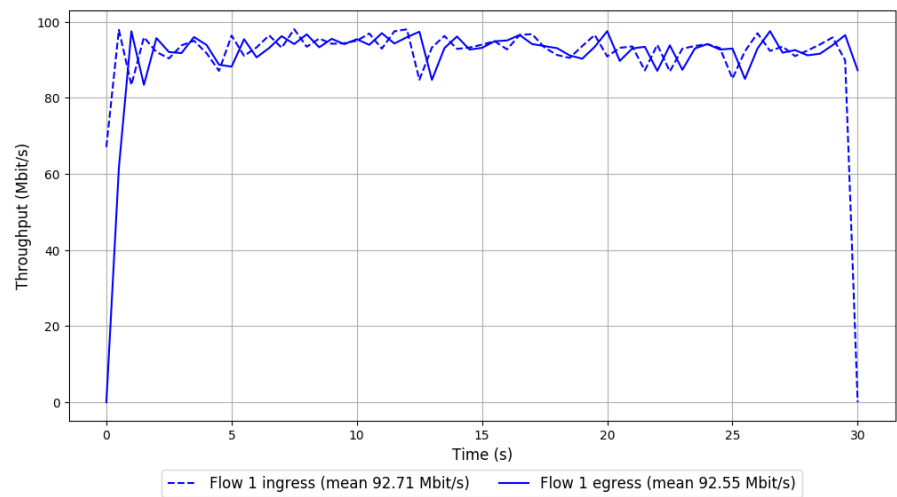


Run 2: Statistics of Verus

Start at: 2018-06-05 20:02:01
End at: 2018-06-05 20:02:32
Local clock offset: 0.552 ms
Remote clock offset: -1.784 ms

Below is generated by plot.py at 2018-06-05 22:58:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.55 Mbit/s
95th percentile per-packet one-way delay: 27.639 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 92.55 Mbit/s
95th percentile per-packet one-way delay: 27.639 ms
Loss rate: 0.27%

Run 2: Report of Verus — Data Link

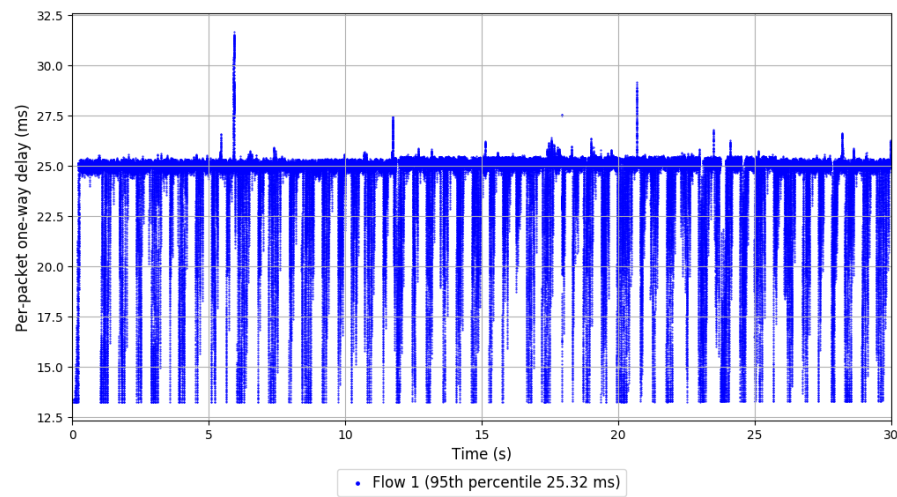
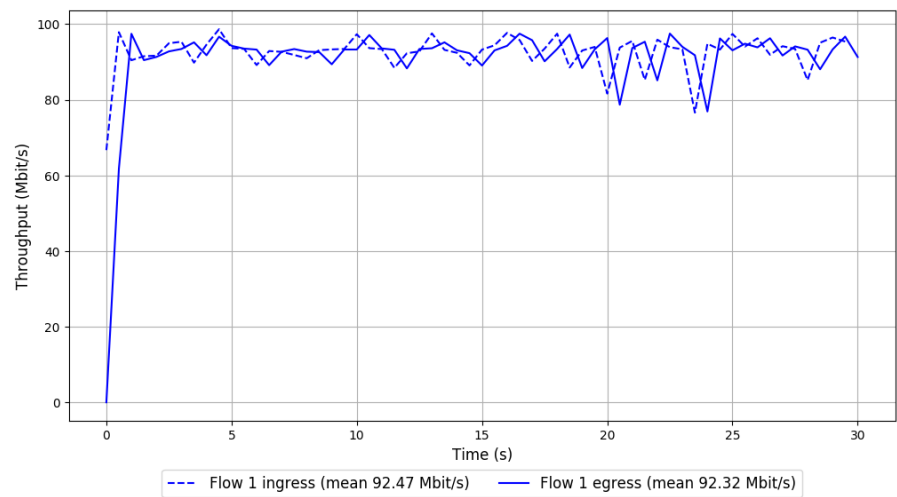


Run 3: Statistics of Verus

Start at: 2018-06-05 20:20:27
End at: 2018-06-05 20:20:57
Local clock offset: -3.042 ms
Remote clock offset: -1.194 ms

Below is generated by plot.py at 2018-06-05 22:59:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.32 Mbit/s
95th percentile per-packet one-way delay: 25.317 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 92.32 Mbit/s
95th percentile per-packet one-way delay: 25.317 ms
Loss rate: 0.27%

Run 3: Report of Verus — Data Link

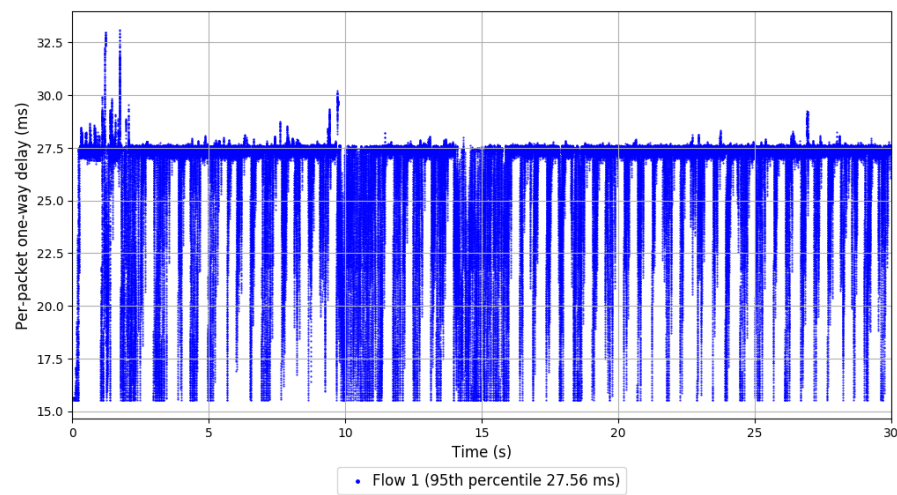
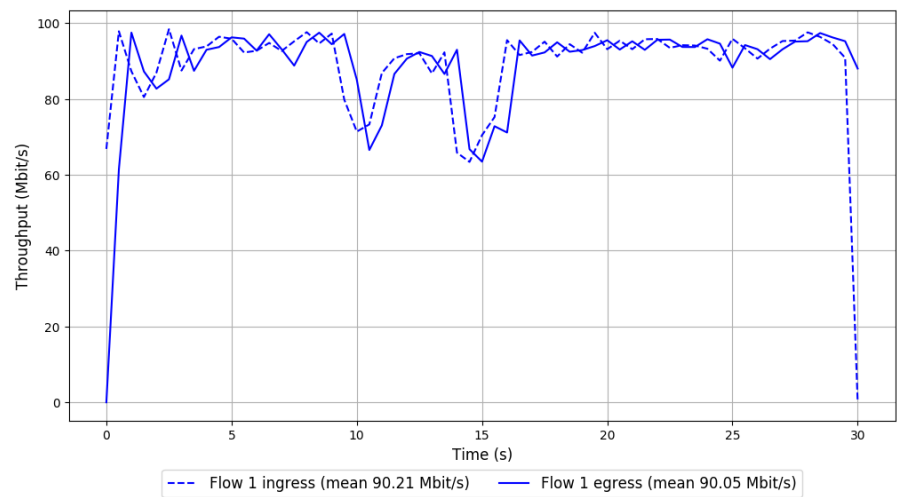


Run 4: Statistics of Verus

Start at: 2018-06-05 20:39:05
End at: 2018-06-05 20:39:35
Local clock offset: -1.327 ms
Remote clock offset: -1.089 ms

Below is generated by plot.py at 2018-06-05 22:59:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.05 Mbit/s
95th percentile per-packet one-way delay: 27.564 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 90.05 Mbit/s
95th percentile per-packet one-way delay: 27.564 ms
Loss rate: 0.28%

Run 4: Report of Verus — Data Link

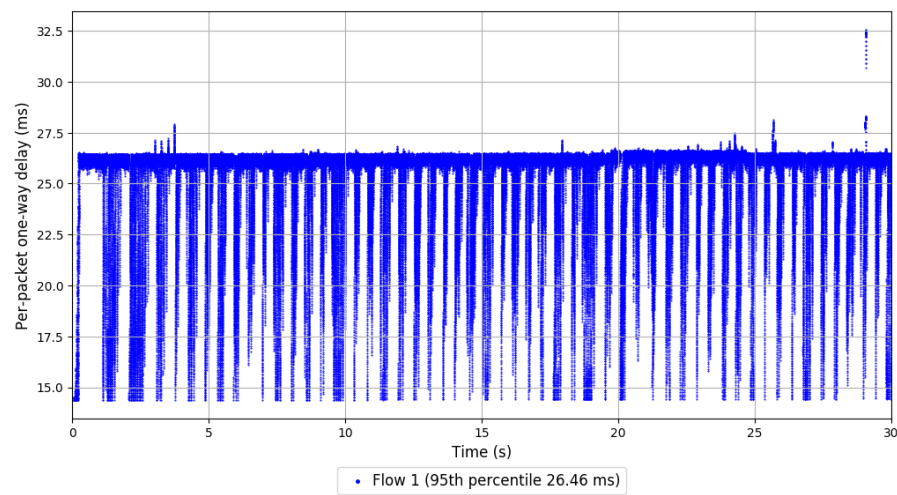
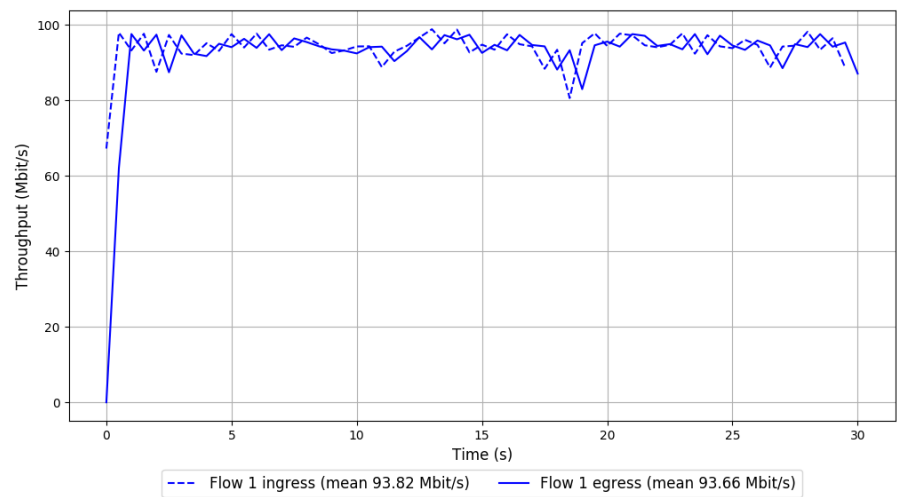


Run 5: Statistics of Verus

Start at: 2018-06-05 20:57:55
End at: 2018-06-05 20:58:25
Local clock offset: -0.587 ms
Remote clock offset: 4.381 ms

Below is generated by plot.py at 2018-06-05 22:59:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.66 Mbit/s
95th percentile per-packet one-way delay: 26.461 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 93.66 Mbit/s
95th percentile per-packet one-way delay: 26.461 ms
Loss rate: 0.27%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-06-05 21:16:14

End at: 2018-06-05 21:16:44

Local clock offset: 0.295 ms

Remote clock offset: 5.37 ms

Below is generated by plot.py at 2018-06-05 22:59:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.93 Mbit/s

95th percentile per-packet one-way delay: 28.674 ms

Loss rate: 0.24%

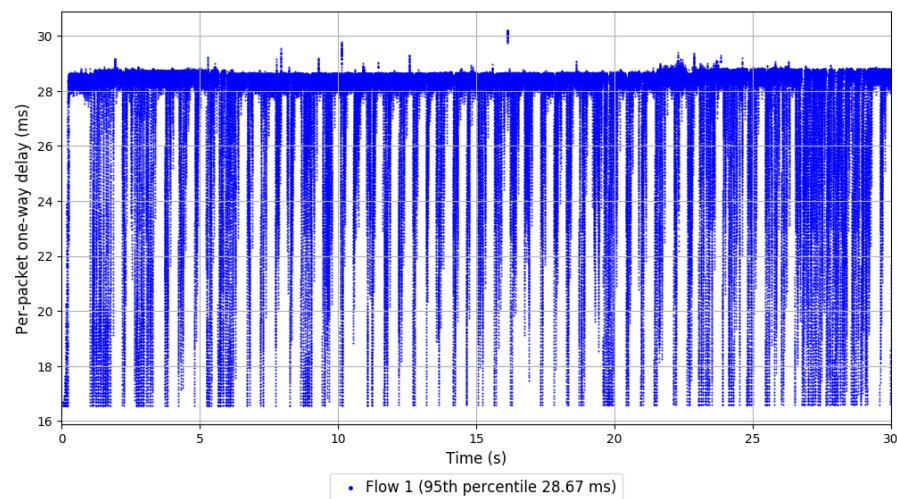
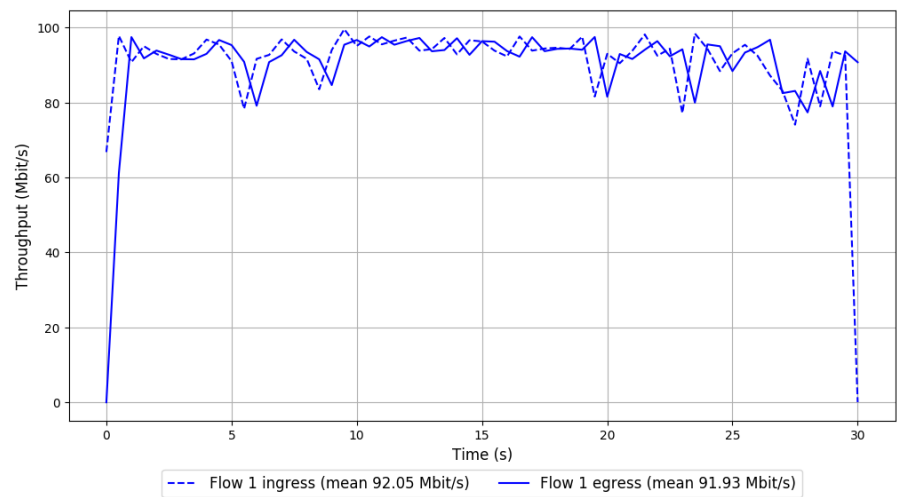
-- Flow 1:

Average throughput: 91.93 Mbit/s

95th percentile per-packet one-way delay: 28.674 ms

Loss rate: 0.24%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-06-05 21:34:58

End at: 2018-06-05 21:35:28

Local clock offset: -0.747 ms

Remote clock offset: 6.545 ms

Below is generated by plot.py at 2018-06-05 22:59:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.73 Mbit/s

95th percentile per-packet one-way delay: 28.234 ms

Loss rate: 0.23%

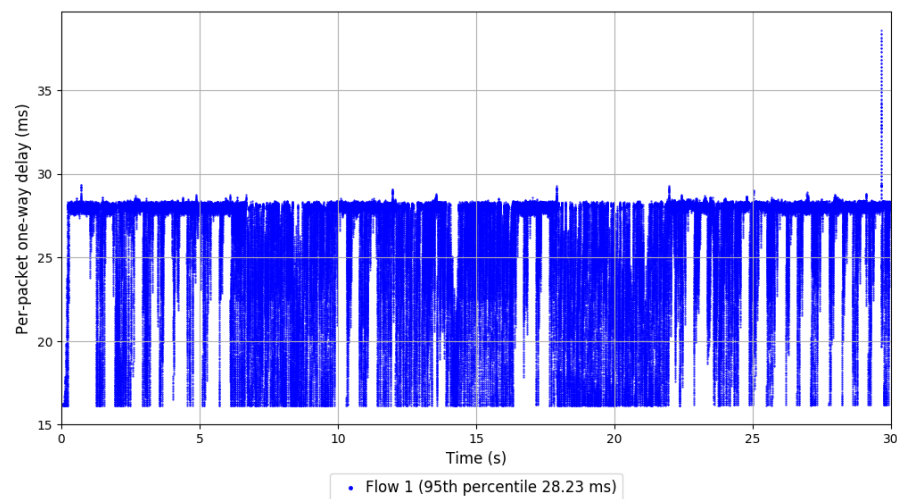
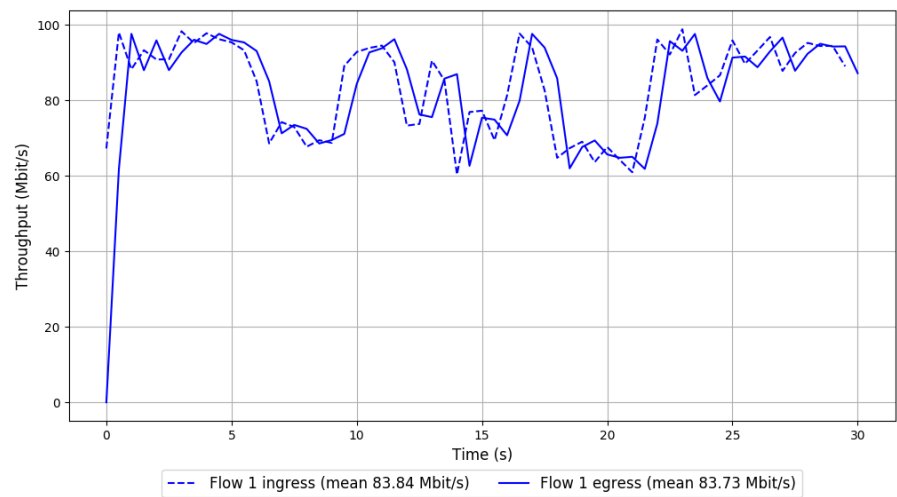
-- Flow 1:

Average throughput: 83.73 Mbit/s

95th percentile per-packet one-way delay: 28.234 ms

Loss rate: 0.23%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-06-05 21:53:34

End at: 2018-06-05 21:54:04

Local clock offset: -2.2 ms

Remote clock offset: 3.88 ms

Below is generated by plot.py at 2018-06-05 22:59:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.77 Mbit/s

95th percentile per-packet one-way delay: 26.419 ms

Loss rate: 0.19%

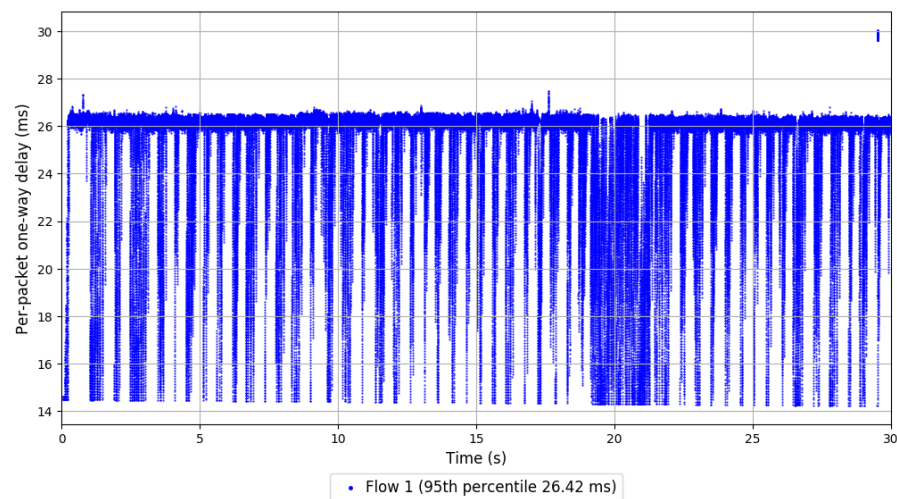
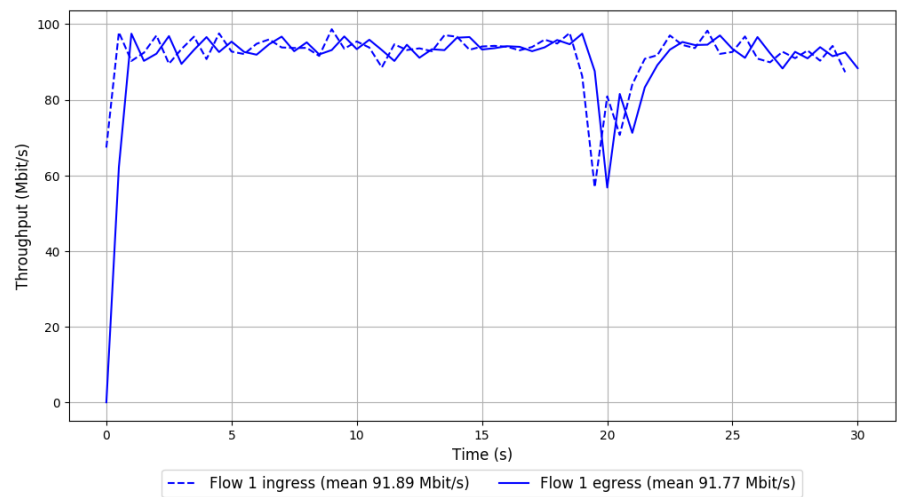
-- Flow 1:

Average throughput: 91.77 Mbit/s

95th percentile per-packet one-way delay: 26.419 ms

Loss rate: 0.19%

Run 8: Report of Verus — Data Link

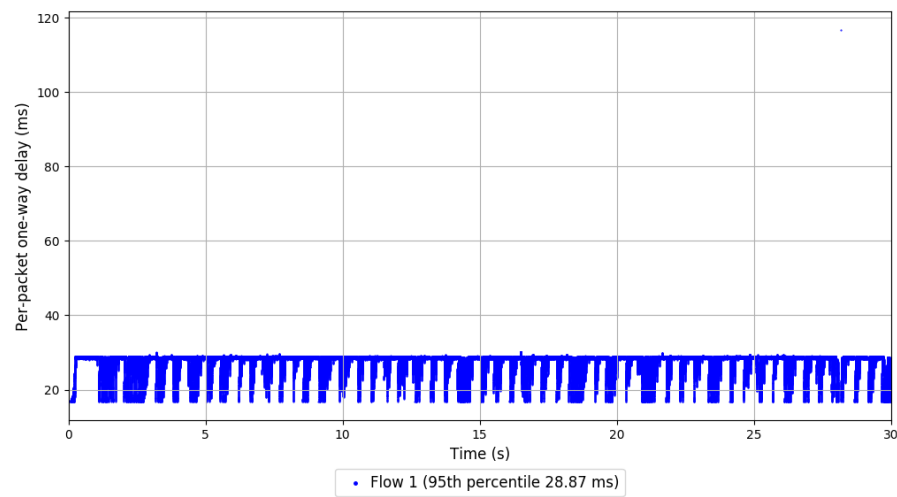
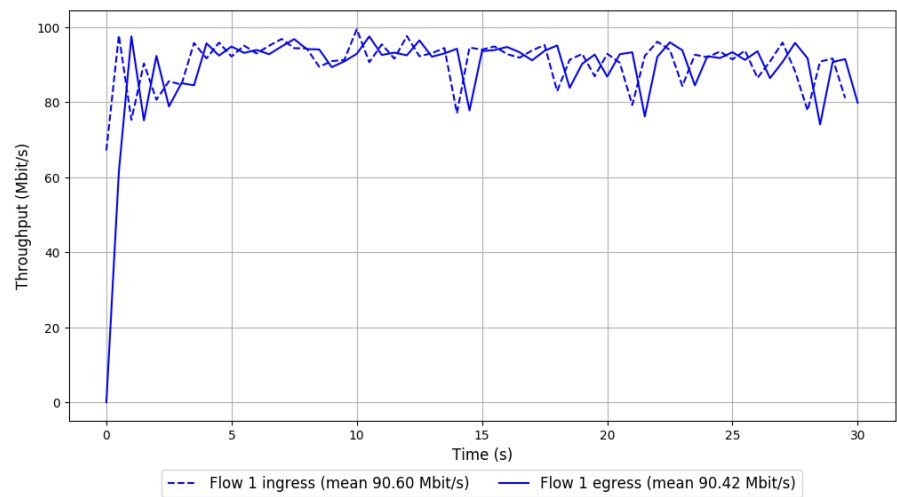


Run 9: Statistics of Verus

Start at: 2018-06-05 22:11:54
End at: 2018-06-05 22:12:24
Local clock offset: 1.451 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-06-05 22:59:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.42 Mbit/s
95th percentile per-packet one-way delay: 28.869 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 90.42 Mbit/s
95th percentile per-packet one-way delay: 28.869 ms
Loss rate: 0.27%

Run 9: Report of Verus — Data Link

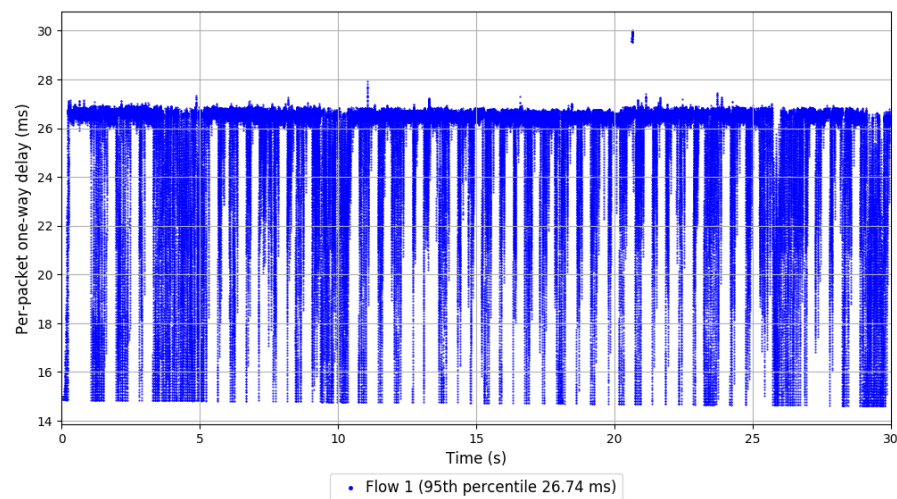
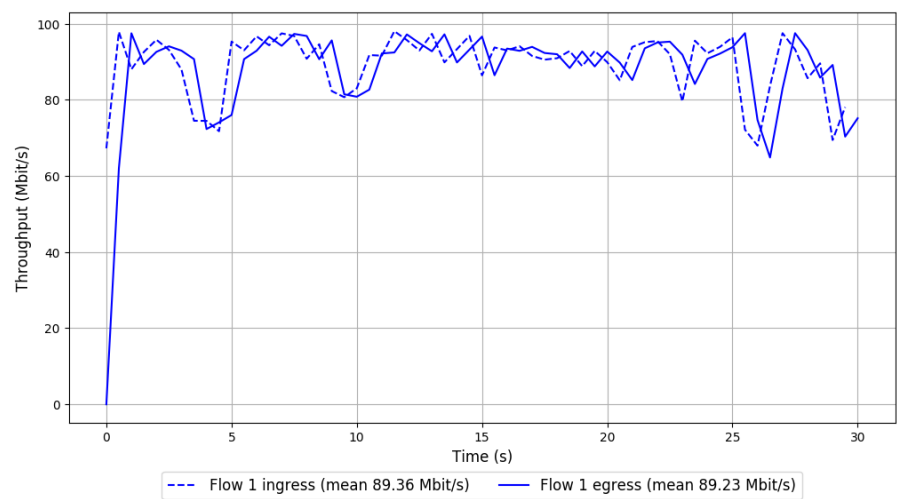


Run 10: Statistics of Verus

Start at: 2018-06-05 22:30:16
End at: 2018-06-05 22:30:46
Local clock offset: 0.057 ms
Remote clock offset: -6.261 ms

Below is generated by plot.py at 2018-06-05 22:59:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.23 Mbit/s
95th percentile per-packet one-way delay: 26.742 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 89.23 Mbit/s
95th percentile per-packet one-way delay: 26.742 ms
Loss rate: 0.25%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-06-05 19:46:58

End at: 2018-06-05 19:47:28

Local clock offset: 1.79 ms

Remote clock offset: -3.677 ms

Below is generated by plot.py at 2018-06-05 23:00:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.53 Mbit/s

95th percentile per-packet one-way delay: 16.918 ms

Loss rate: 0.09%

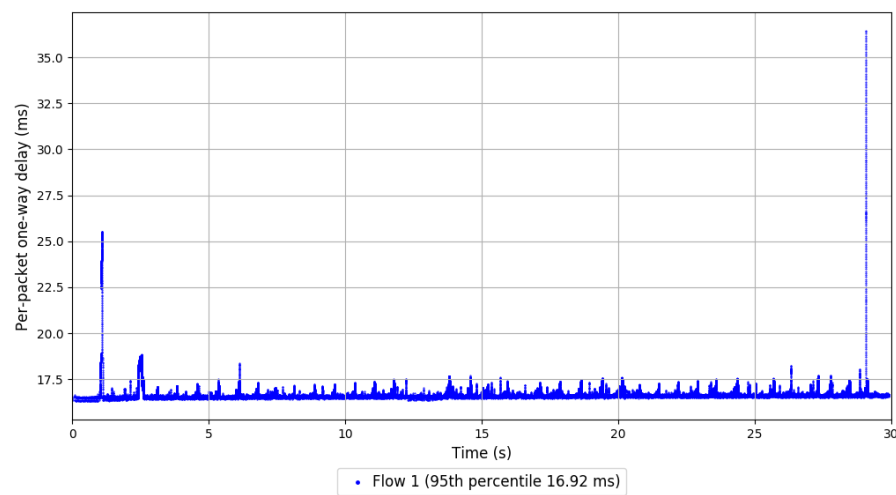
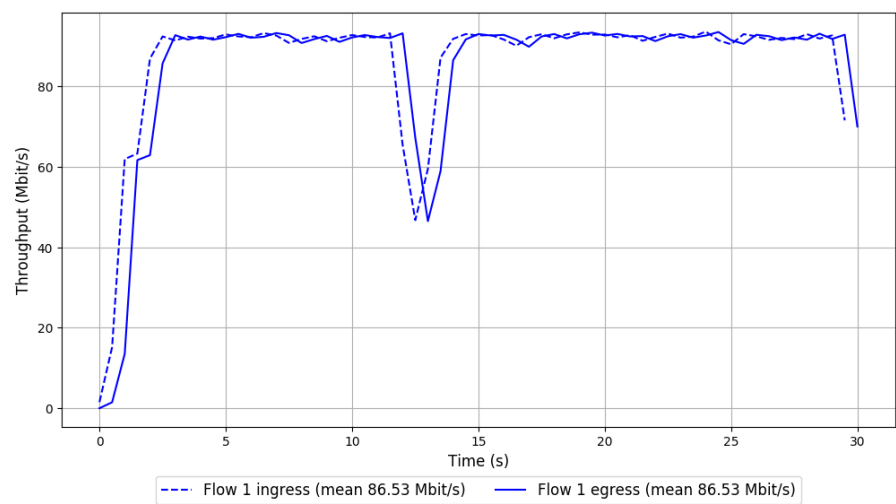
-- Flow 1:

Average throughput: 86.53 Mbit/s

95th percentile per-packet one-way delay: 16.918 ms

Loss rate: 0.09%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-06-05 20:05:28

End at: 2018-06-05 20:05:58

Local clock offset: 0.411 ms

Remote clock offset: -1.038 ms

Below is generated by plot.py at 2018-06-05 23:00:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.18 Mbit/s

95th percentile per-packet one-way delay: 15.651 ms

Loss rate: 0.09%

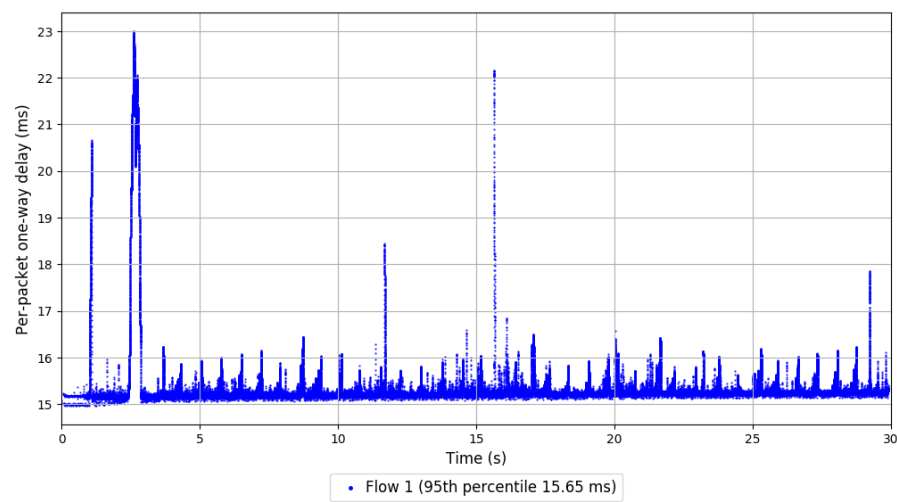
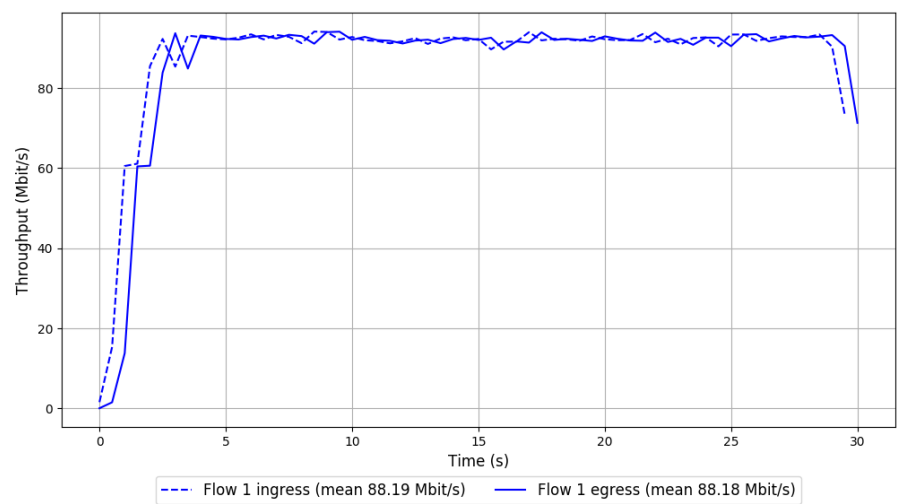
-- Flow 1:

Average throughput: 88.18 Mbit/s

95th percentile per-packet one-way delay: 15.651 ms

Loss rate: 0.09%

Run 2: Report of PCC-Vivace — Data Link

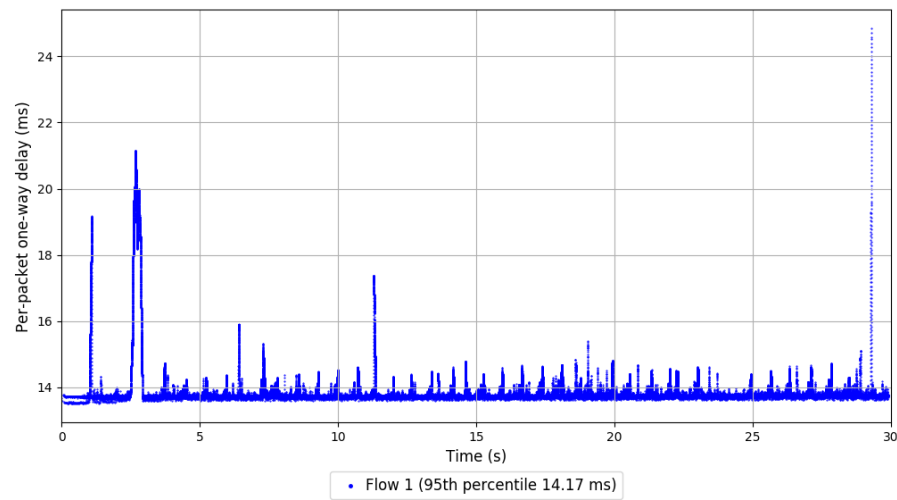
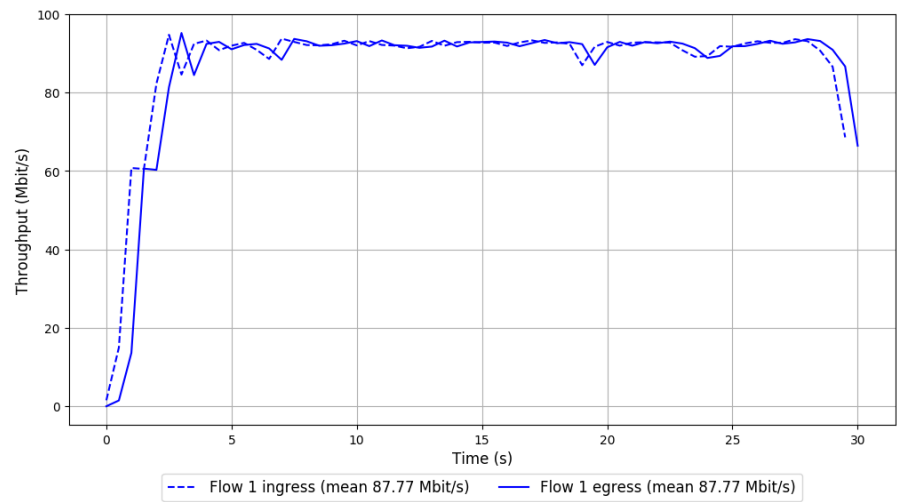


Run 3: Statistics of PCC-Vivace

Start at: 2018-06-05 20:23:55
End at: 2018-06-05 20:24:25
Local clock offset: -3.068 ms
Remote clock offset: -1.432 ms

Below is generated by plot.py at 2018-06-05 23:00:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.77 Mbit/s
95th percentile per-packet one-way delay: 14.174 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 87.77 Mbit/s
95th percentile per-packet one-way delay: 14.174 ms
Loss rate: 0.08%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-06-05 20:42:37

End at: 2018-06-05 20:43:07

Local clock offset: -2.626 ms

Remote clock offset: 0.268 ms

Below is generated by plot.py at 2018-06-05 23:00:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.20 Mbit/s

95th percentile per-packet one-way delay: 14.356 ms

Loss rate: 0.08%

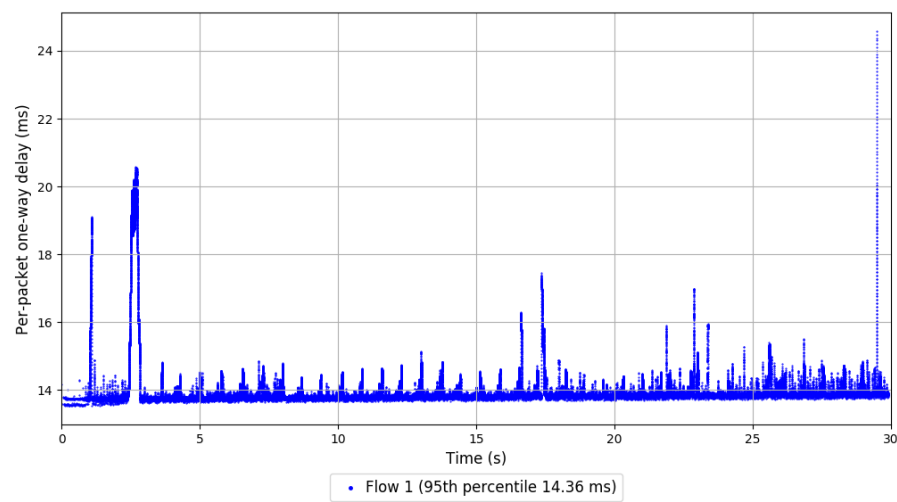
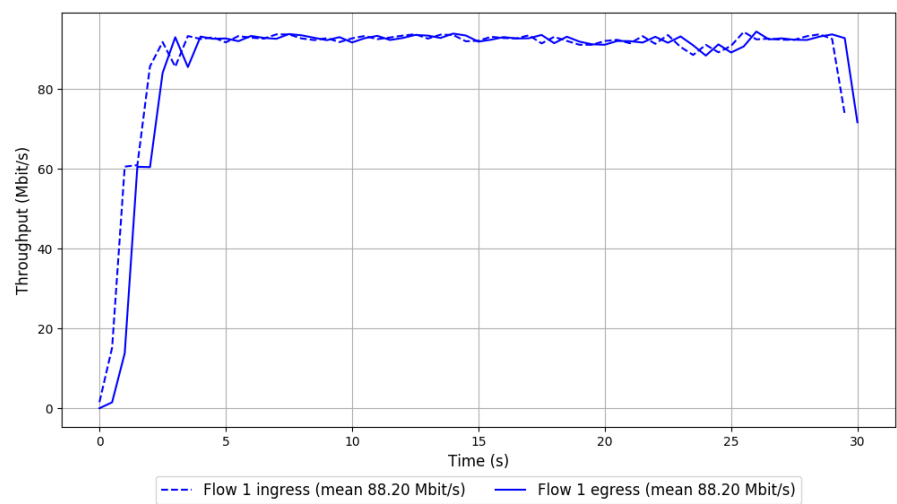
-- Flow 1:

Average throughput: 88.20 Mbit/s

95th percentile per-packet one-way delay: 14.356 ms

Loss rate: 0.08%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-06-05 21:01:20

End at: 2018-06-05 21:01:50

Local clock offset: -1.524 ms

Remote clock offset: 3.984 ms

Below is generated by plot.py at 2018-06-05 23:00:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.28 Mbit/s

95th percentile per-packet one-way delay: 14.776 ms

Loss rate: 0.08%

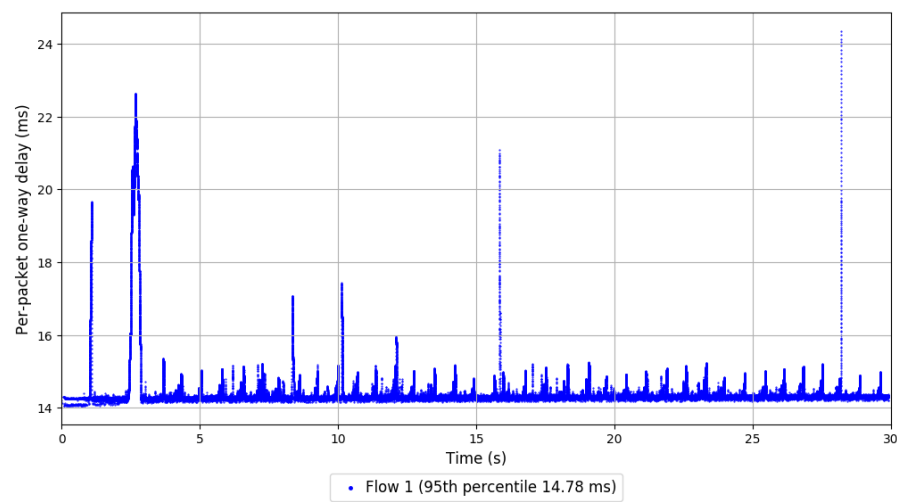
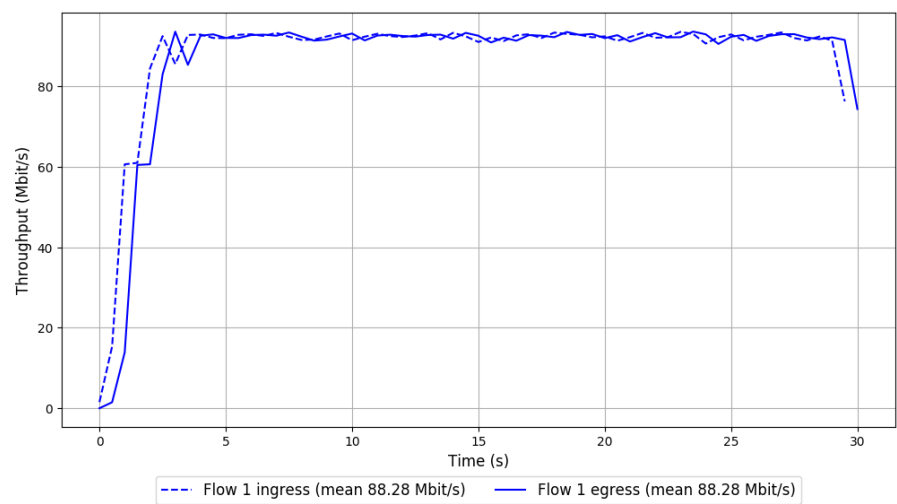
-- Flow 1:

Average throughput: 88.28 Mbit/s

95th percentile per-packet one-way delay: 14.776 ms

Loss rate: 0.08%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-06-05 21:19:44

End at: 2018-06-05 21:20:14

Local clock offset: -0.49 ms

Remote clock offset: 6.456 ms

Below is generated by plot.py at 2018-06-05 23:00:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.08 Mbit/s

95th percentile per-packet one-way delay: 15.827 ms

Loss rate: 0.10%

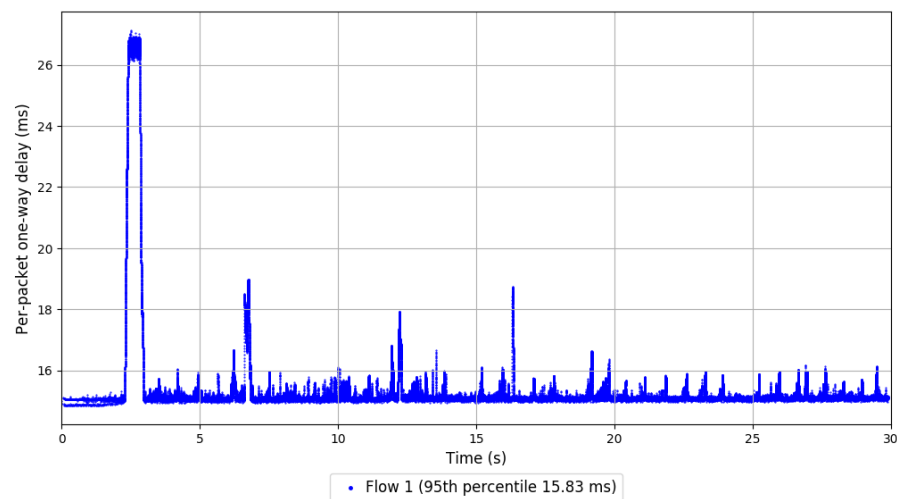
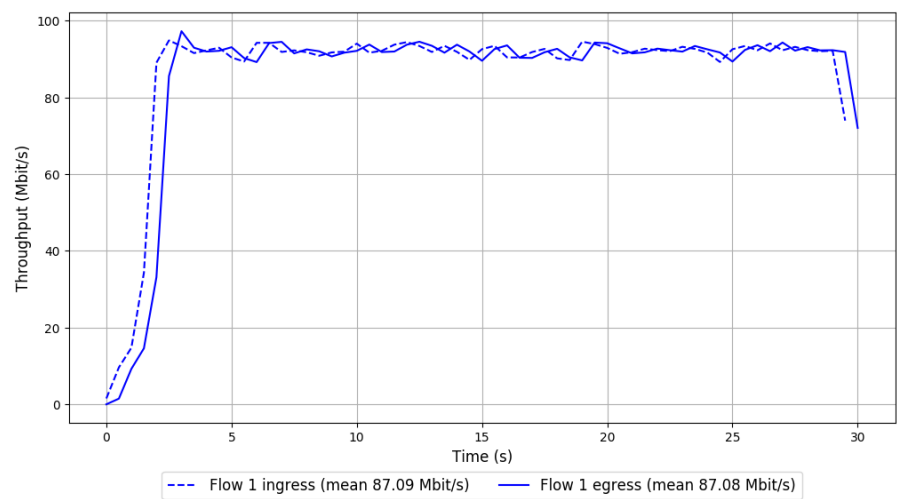
-- Flow 1:

Average throughput: 87.08 Mbit/s

95th percentile per-packet one-way delay: 15.827 ms

Loss rate: 0.10%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-06-05 21:38:26

End at: 2018-06-05 21:38:56

Local clock offset: -2.383 ms

Remote clock offset: 8.278 ms

Below is generated by plot.py at 2018-06-05 23:00:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.73 Mbit/s

95th percentile per-packet one-way delay: 13.456 ms

Loss rate: 0.10%

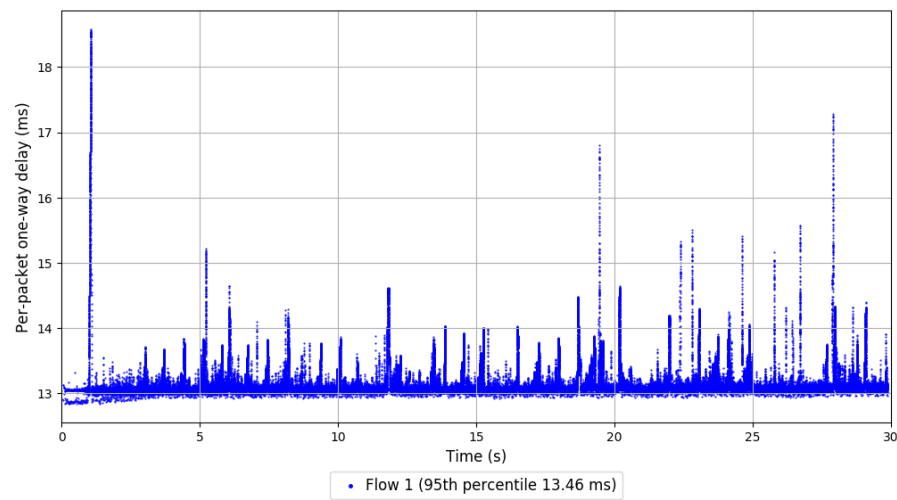
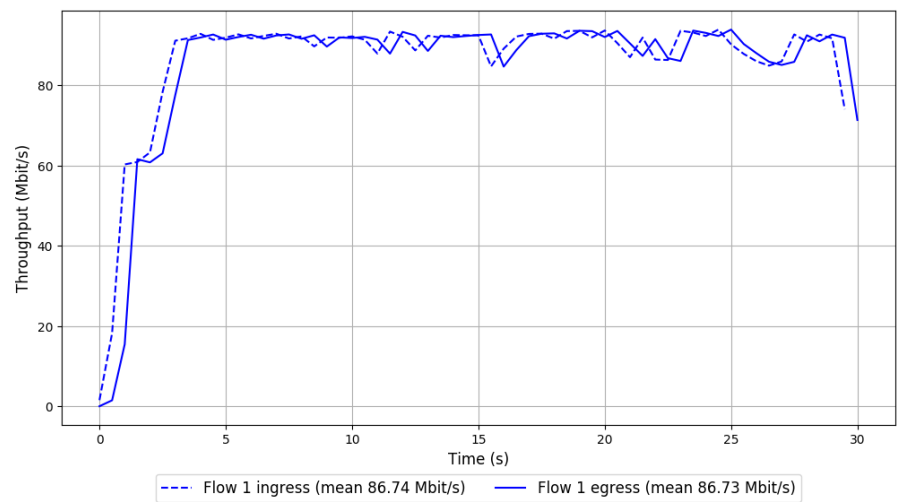
-- Flow 1:

Average throughput: 86.73 Mbit/s

95th percentile per-packet one-way delay: 13.456 ms

Loss rate: 0.10%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-06-05 21:57:02

End at: 2018-06-05 21:57:32

Local clock offset: -0.626 ms

Remote clock offset: 2.99 ms

Below is generated by plot.py at 2018-06-05 23:00:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.37 Mbit/s

95th percentile per-packet one-way delay: 15.663 ms

Loss rate: 0.09%

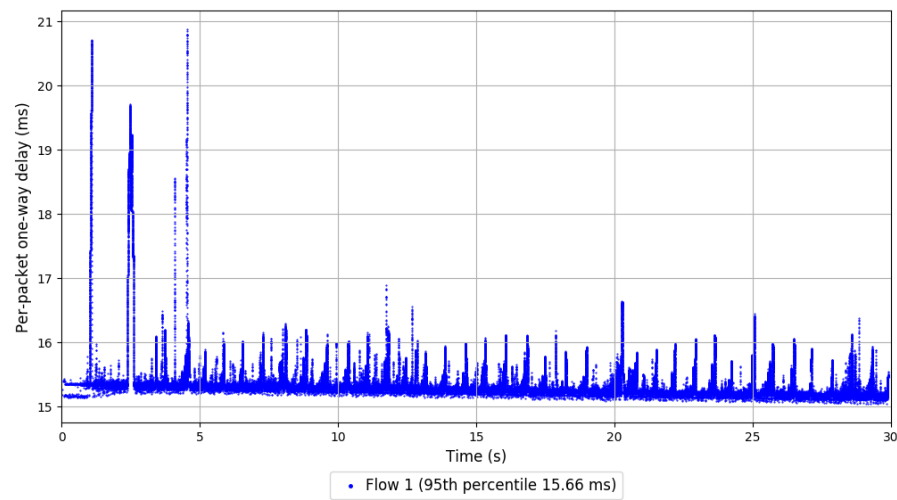
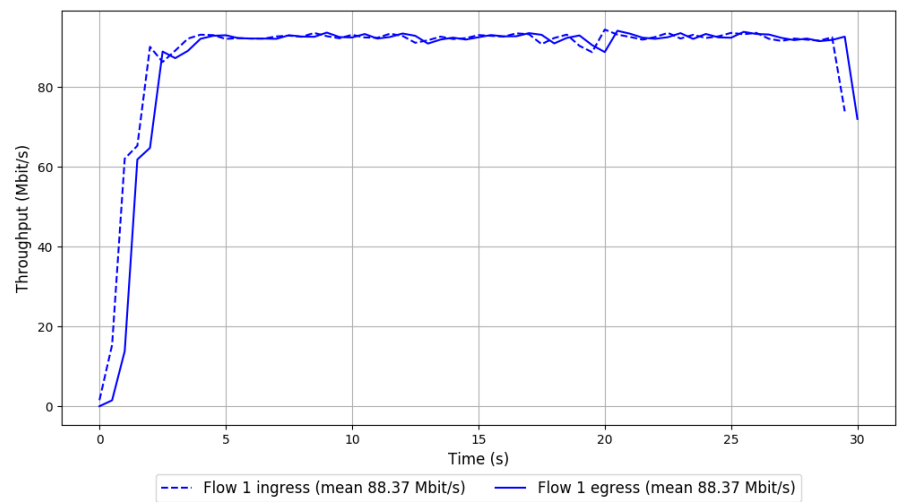
-- Flow 1:

Average throughput: 88.37 Mbit/s

95th percentile per-packet one-way delay: 15.663 ms

Loss rate: 0.09%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-06-05 22:15:24

End at: 2018-06-05 22:15:54

Local clock offset: 0.321 ms

Remote clock offset: -0.767 ms

Below is generated by plot.py at 2018-06-05 23:00:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.96 Mbit/s

95th percentile per-packet one-way delay: 16.242 ms

Loss rate: 0.09%

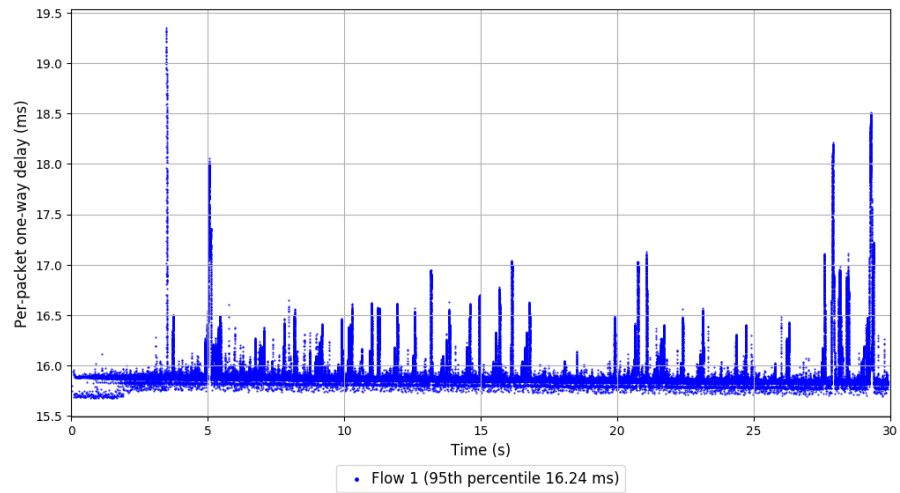
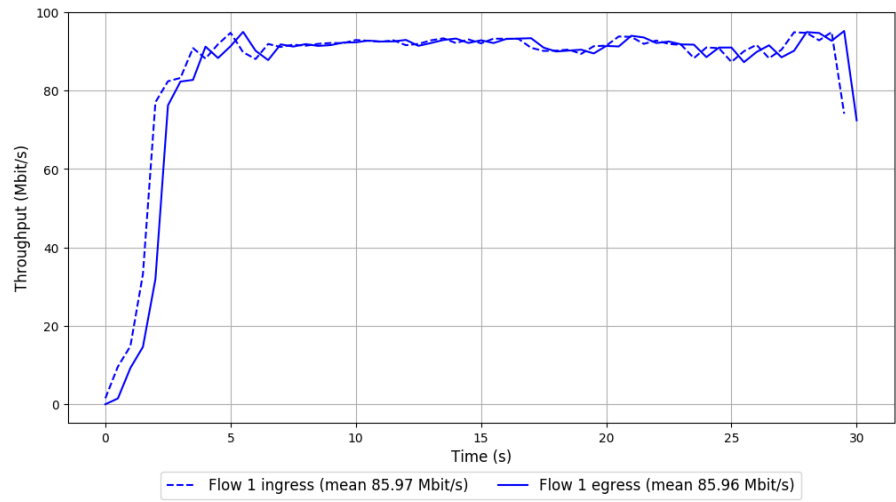
-- Flow 1:

Average throughput: 85.96 Mbit/s

95th percentile per-packet one-way delay: 16.242 ms

Loss rate: 0.09%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-06-05 22:33:47

End at: 2018-06-05 22:34:17

Local clock offset: -0.652 ms

Remote clock offset: -8.289 ms

Below is generated by plot.py at 2018-06-05 23:00:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.89 Mbit/s

95th percentile per-packet one-way delay: 15.282 ms

Loss rate: 0.10%

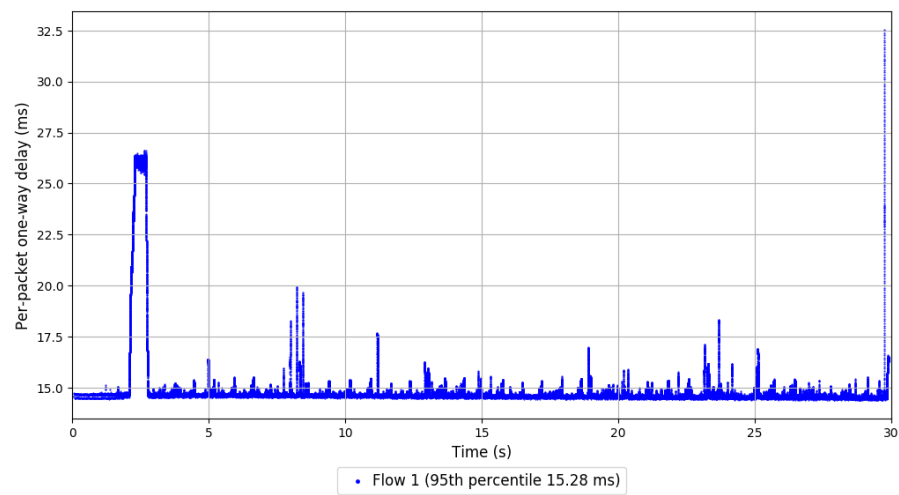
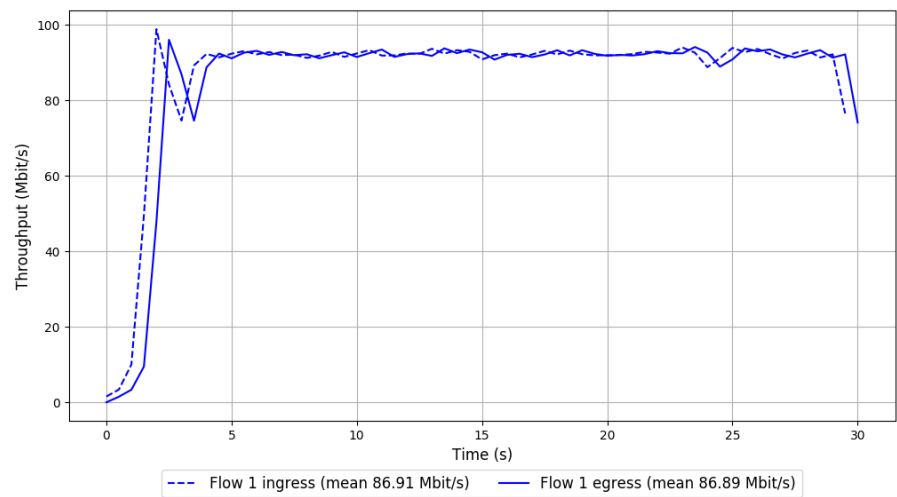
-- Flow 1:

Average throughput: 86.89 Mbit/s

95th percentile per-packet one-way delay: 15.282 ms

Loss rate: 0.10%

Run 10: Report of PCC-Vivace — Data Link

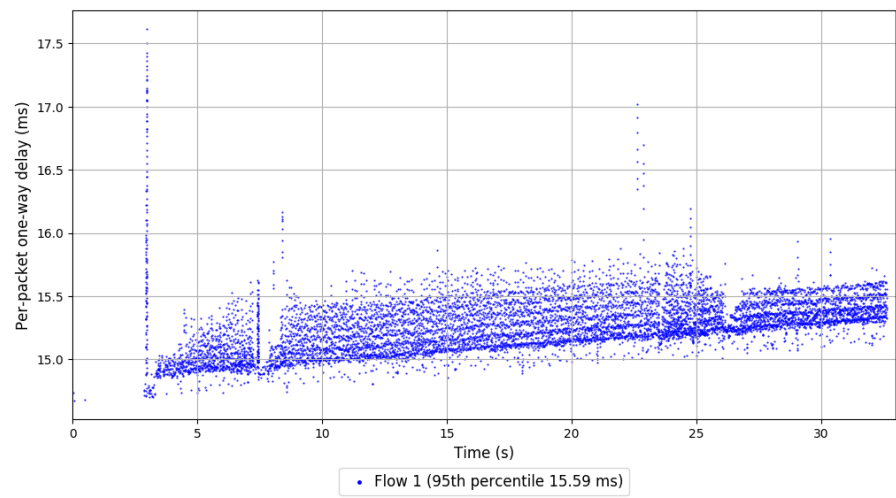
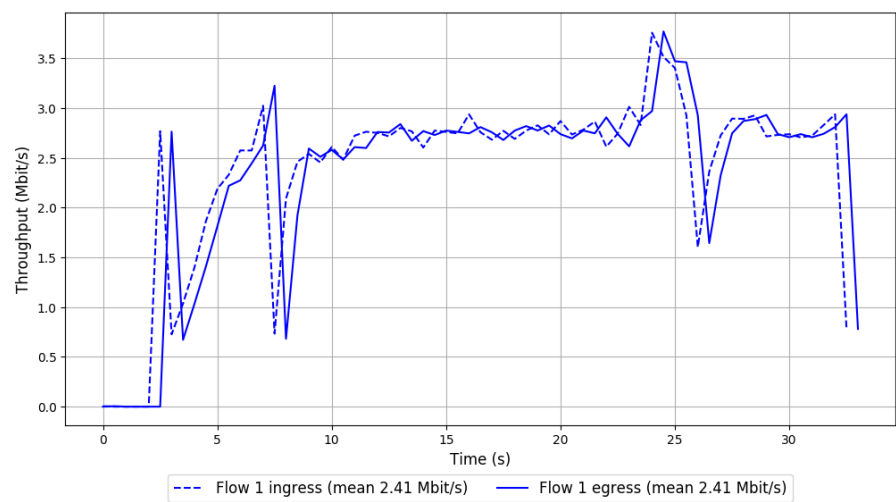


```
Run 1: Statistics of WebRTC media

Start at: 2018-06-05 19:35:13
End at: 2018-06-05 19:35:43
Local clock offset: 0.059 ms
Remote clock offset: -9.667 ms

# Below is generated by plot.py at 2018-06-05 23:00:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 15.592 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 15.592 ms
Loss rate: 0.06%
```

Run 1: Report of WebRTC media — Data Link

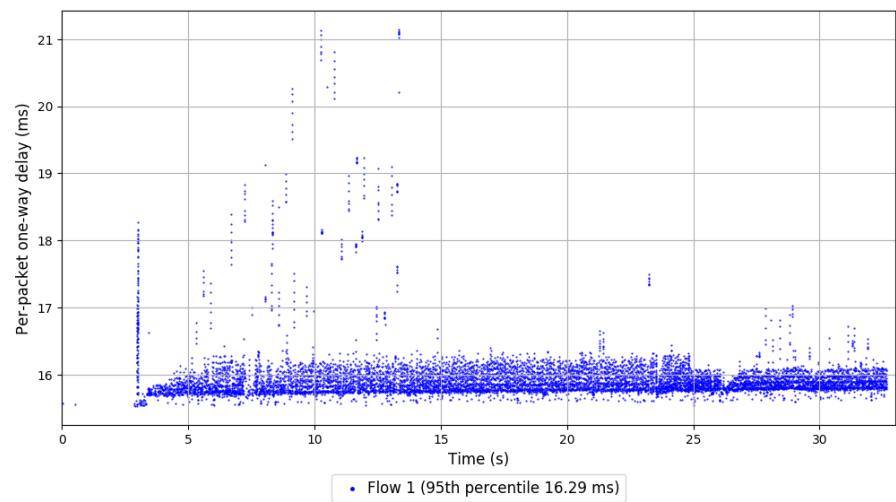
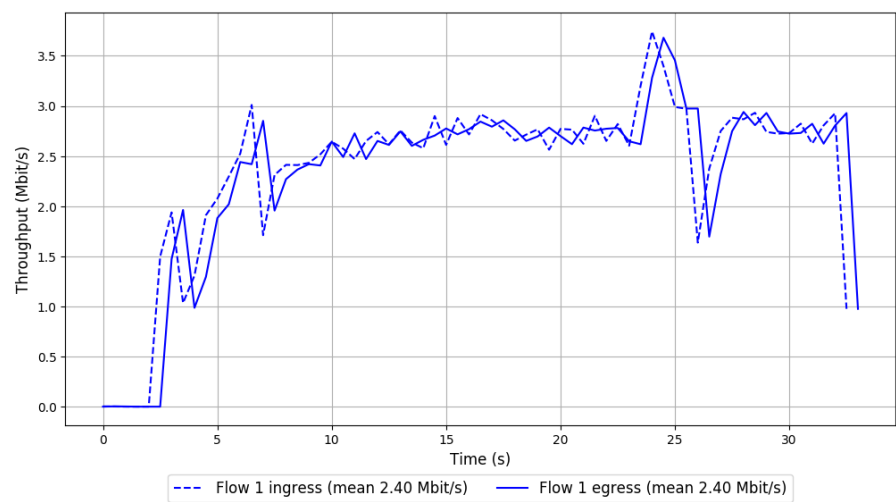


Run 2: Statistics of WebRTC media

Start at: 2018-06-05 19:53:56
End at: 2018-06-05 19:54:26
Local clock offset: 0.251 ms
Remote clock offset: -3.133 ms

Below is generated by plot.py at 2018-06-05 23:00:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 16.285 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 16.285 ms
Loss rate: 0.06%

Run 2: Report of WebRTC media — Data Link

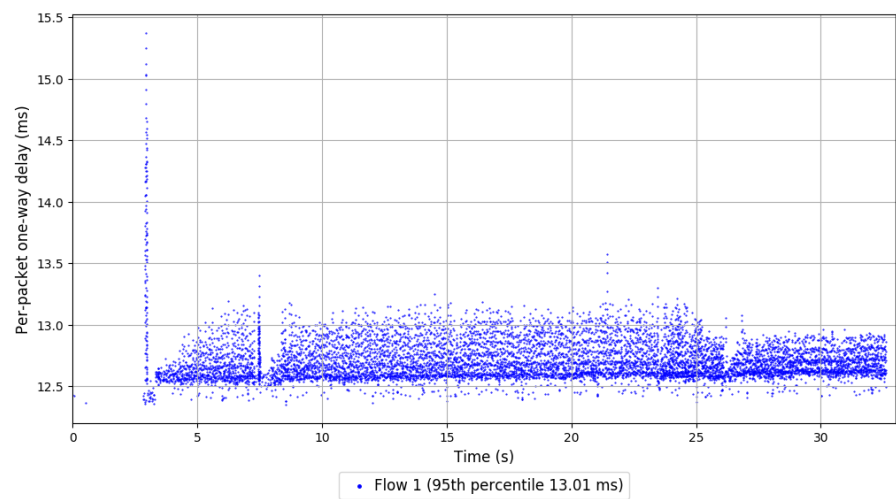
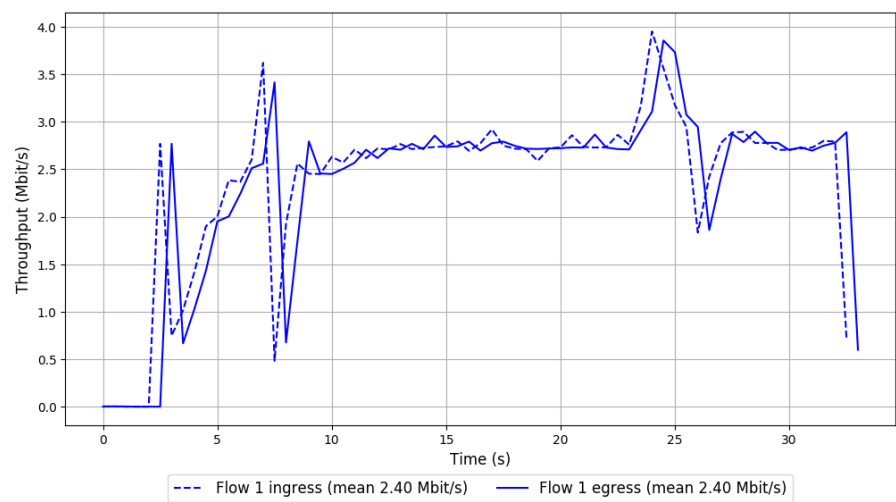


Run 3: Statistics of WebRTC media

Start at: 2018-06-05 20:12:25
End at: 2018-06-05 20:12:55
Local clock offset: -2.573 ms
Remote clock offset: -0.616 ms

Below is generated by plot.py at 2018-06-05 23:00:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 13.010 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 13.010 ms
Loss rate: 0.08%

Run 3: Report of WebRTC media — Data Link

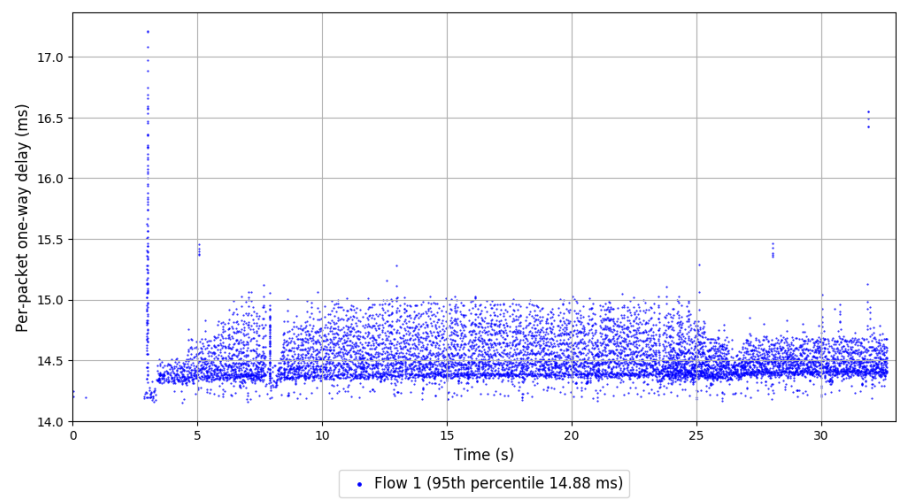
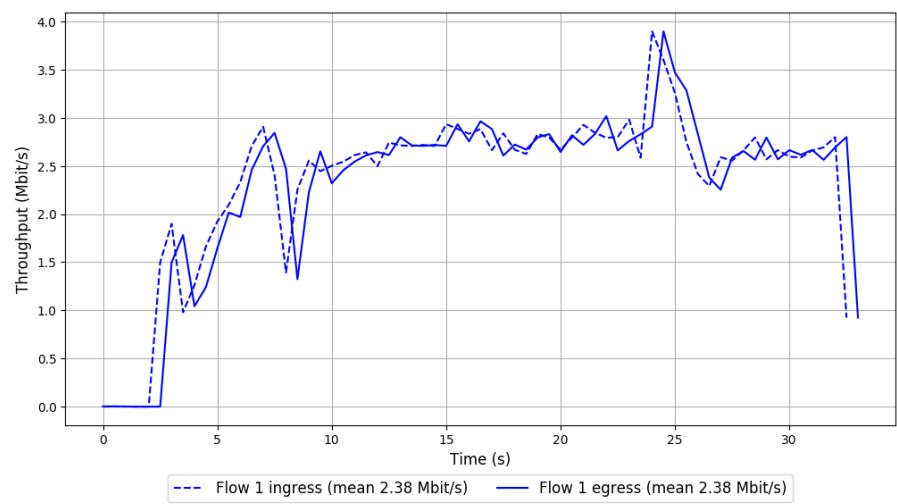


Run 4: Statistics of WebRTC media

Start at: 2018-06-05 20:31:02
End at: 2018-06-05 20:31:32
Local clock offset: -1.675 ms
Remote clock offset: -0.302 ms

Below is generated by plot.py at 2018-06-05 23:00:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 14.879 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 14.879 ms
Loss rate: 0.06%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-06-05 20:49:50

End at: 2018-06-05 20:50:20

Local clock offset: -1.993 ms

Remote clock offset: 3.025 ms

Below is generated by plot.py at 2018-06-05 23:00:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.78 Mbit/s

95th percentile per-packet one-way delay: 13.768 ms

Loss rate: 0.19%

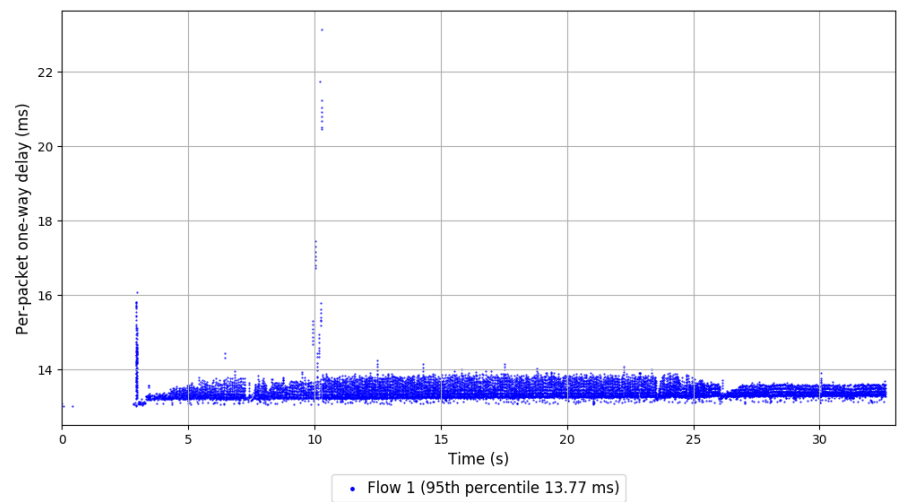
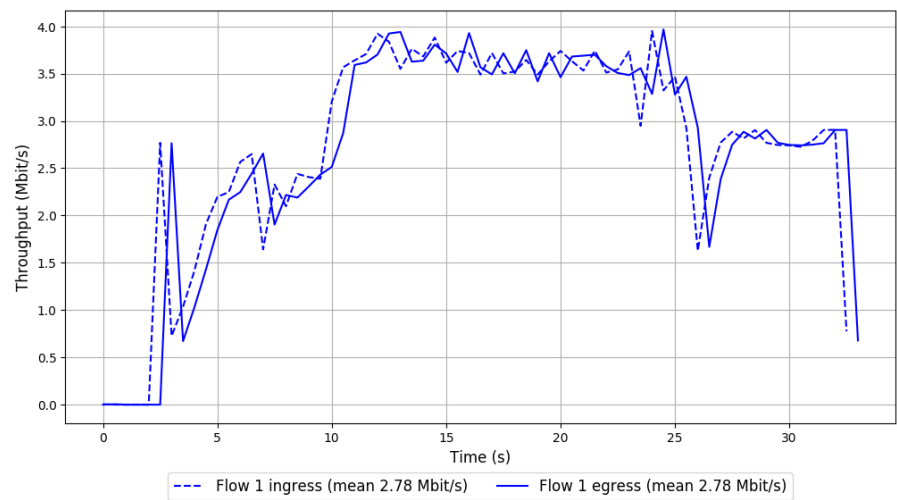
-- Flow 1:

Average throughput: 2.78 Mbit/s

95th percentile per-packet one-way delay: 13.768 ms

Loss rate: 0.19%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-06-05 21:08:12

End at: 2018-06-05 21:08:42

Local clock offset: -2.043 ms

Remote clock offset: 4.271 ms

Below is generated by plot.py at 2018-06-05 23:00:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 14.886 ms

Loss rate: 0.06%

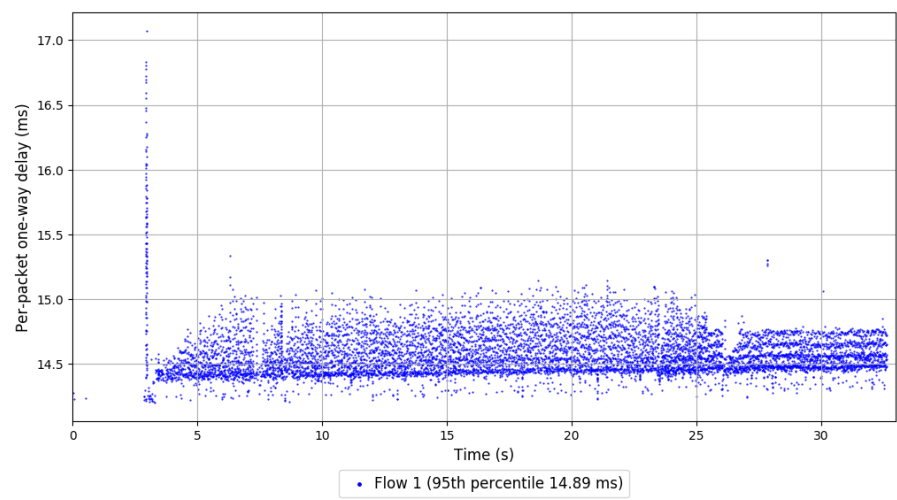
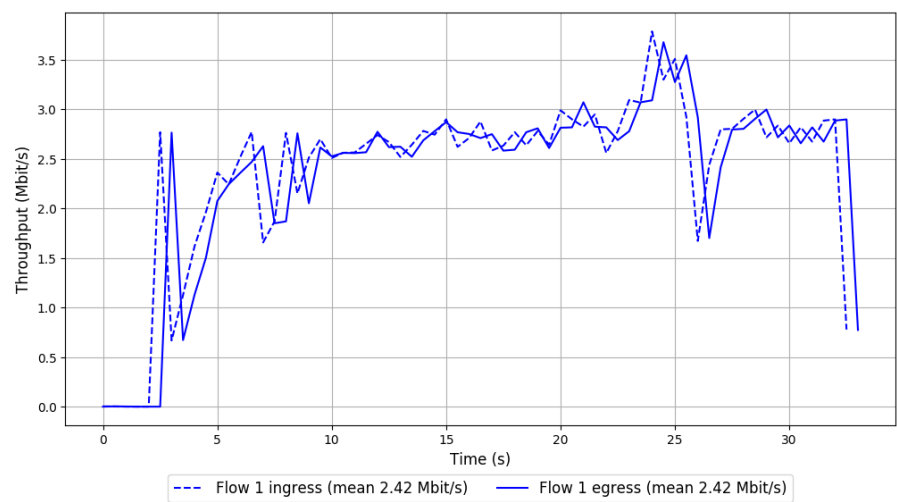
-- Flow 1:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 14.886 ms

Loss rate: 0.06%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-06-05 21:26:43

End at: 2018-06-05 21:27:13

Local clock offset: -2.588 ms

Remote clock offset: 5.881 ms

Below is generated by plot.py at 2018-06-05 23:00:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 14.717 ms

Loss rate: 0.06%

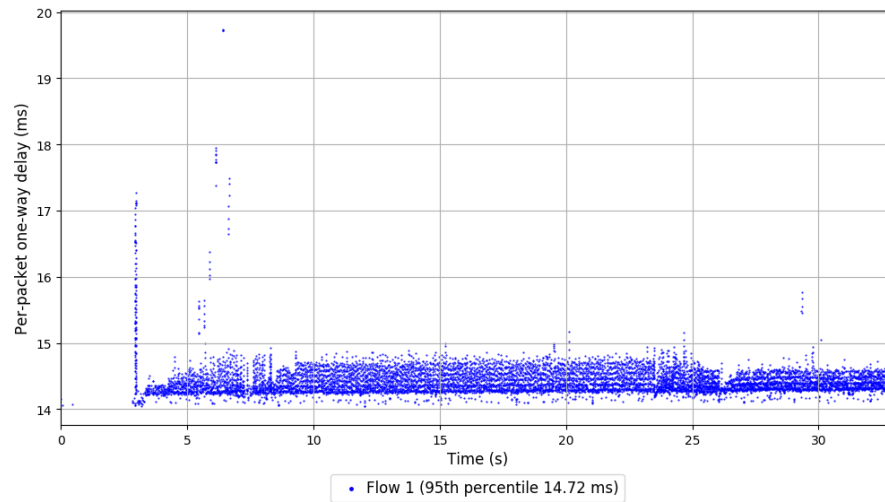
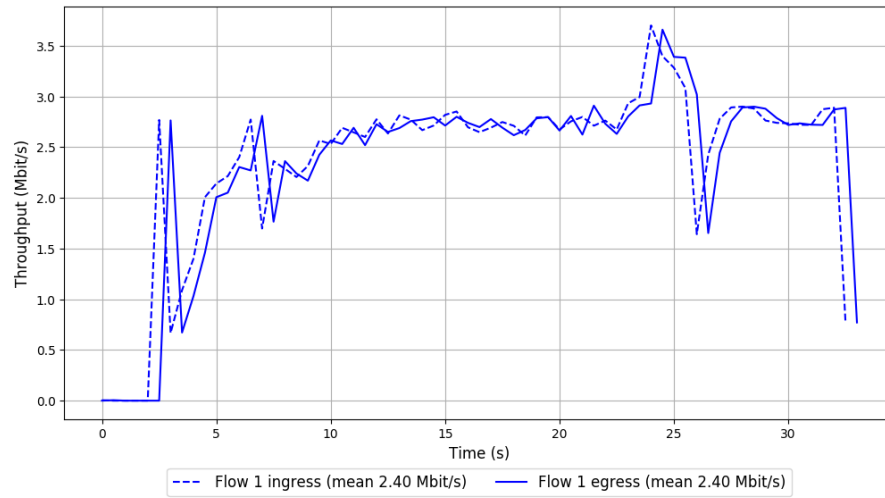
-- Flow 1:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 14.717 ms

Loss rate: 0.06%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-06-05 21:45:29

End at: 2018-06-05 21:45:59

Local clock offset: 0.188 ms

Remote clock offset: 7.412 ms

Below is generated by plot.py at 2018-06-05 23:00:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 17.532 ms

Loss rate: 0.07%

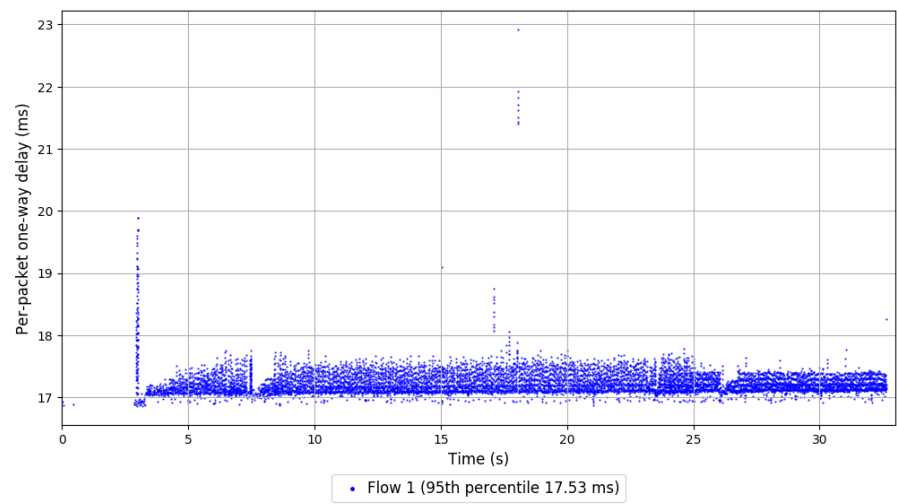
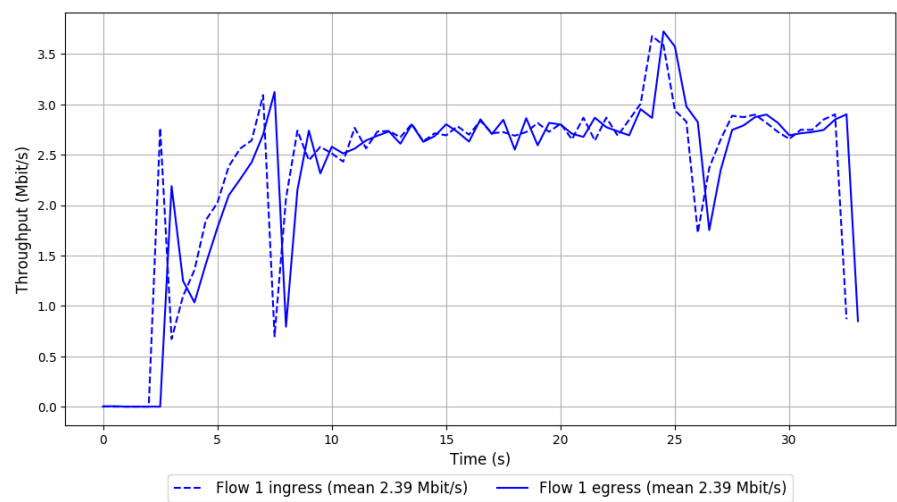
-- Flow 1:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 17.532 ms

Loss rate: 0.07%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-06-05 22:03:52

End at: 2018-06-05 22:04:22

Local clock offset: 0.255 ms

Remote clock offset: 0.862 ms

Below is generated by plot.py at 2018-06-05 23:00:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 16.805 ms

Loss rate: 0.06%

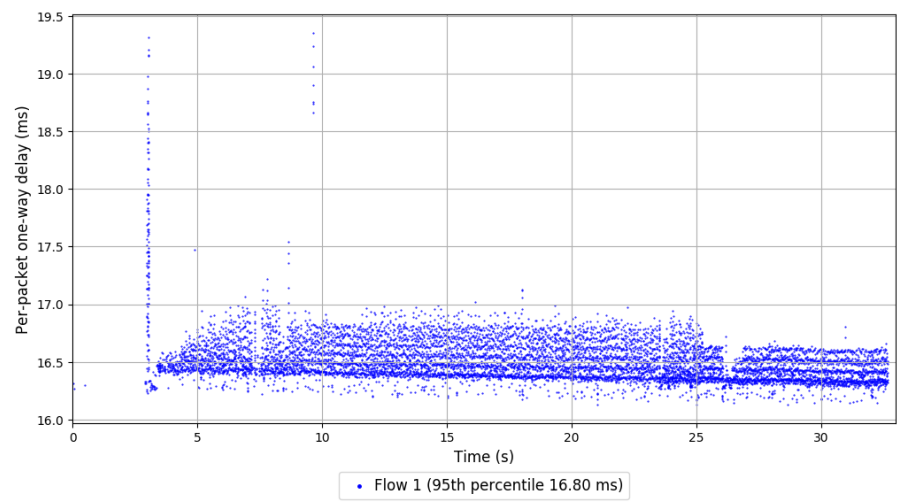
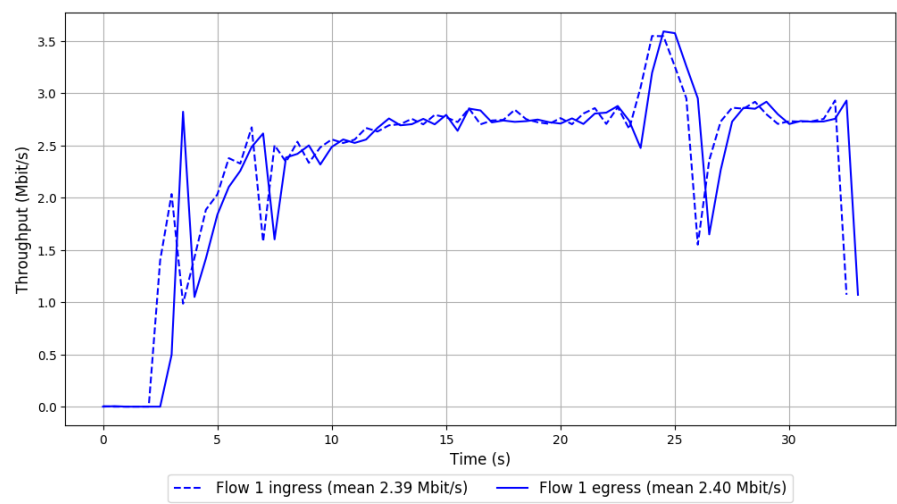
-- Flow 1:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 16.805 ms

Loss rate: 0.06%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-05 22:22:21

End at: 2018-06-05 22:22:51

Local clock offset: 1.159 ms

Remote clock offset: -1.929 ms

Below is generated by plot.py at 2018-06-05 23:00:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 17.488 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 17.488 ms

Loss rate: 0.06%

Run 10: Report of WebRTC media — Data Link

