

Pantheon Report

Generated at 2018-06-05 09:58:24 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

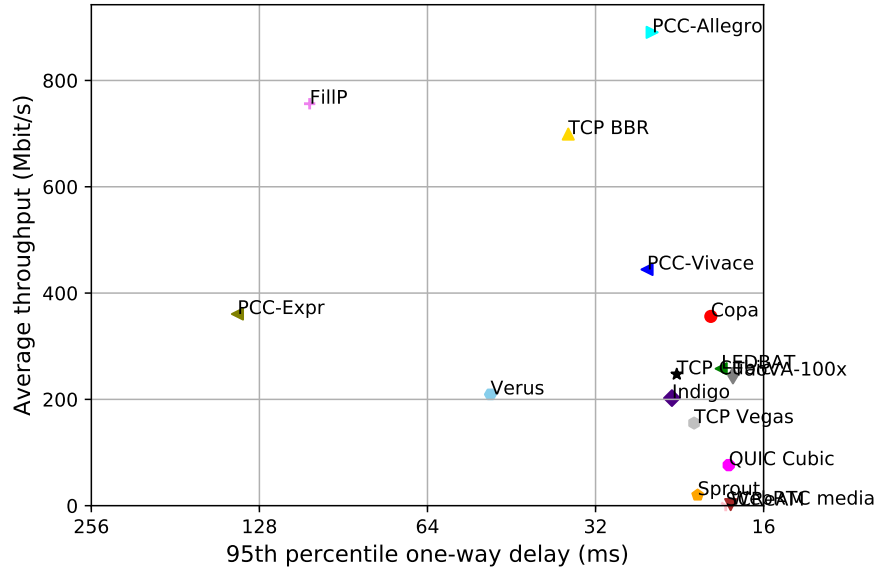
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

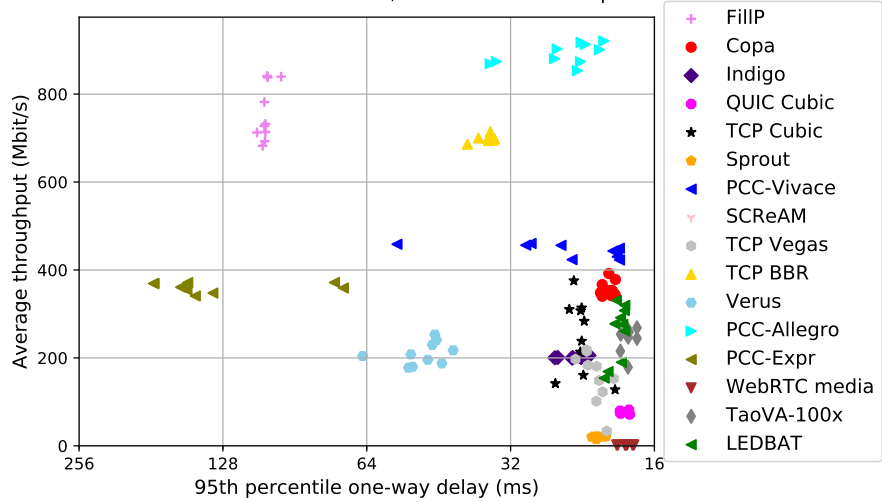
Git summary:

```
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-quick @ 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
```

test from AWS California 1 to Stanford, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from AWS California 1 to Stanford, 10 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	699.14	35.81	0.29
Copa	10	356.11	19.89	0.01
TCP Cubic	10	247.30	22.89	0.05
FillP	10	756.23	104.04	4.19
Indigo	10	202.38	23.35	0.00
LEDBAT	10	257.76	19.06	0.01
PCC-Allegro	10	890.53	25.34	0.32
PCC-Expr	10	360.59	140.15	1.63
QUIC Cubic	10	76.32	18.47	0.00
SCReAM	10	0.22	18.71	0.00
Sprout	10	19.97	21.01	0.06
TaoVA-100x	10	244.81	18.16	0.00
TCP Vegas	10	155.42	21.31	0.14
Verus	10	209.36	49.36	19.32
PCC-Vivace	10	444.38	25.88	0.01
WebRTC media	10	1.98	18.33	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-06-05 04:38:55

End at: 2018-06-05 04:39:25

Local clock offset: 0.47 ms

Remote clock offset: 0.225 ms

Below is generated by plot.py at 2018-06-05 08:35:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 686.11 Mbit/s

95th percentile per-packet one-way delay: 39.409 ms

Loss rate: 0.22%

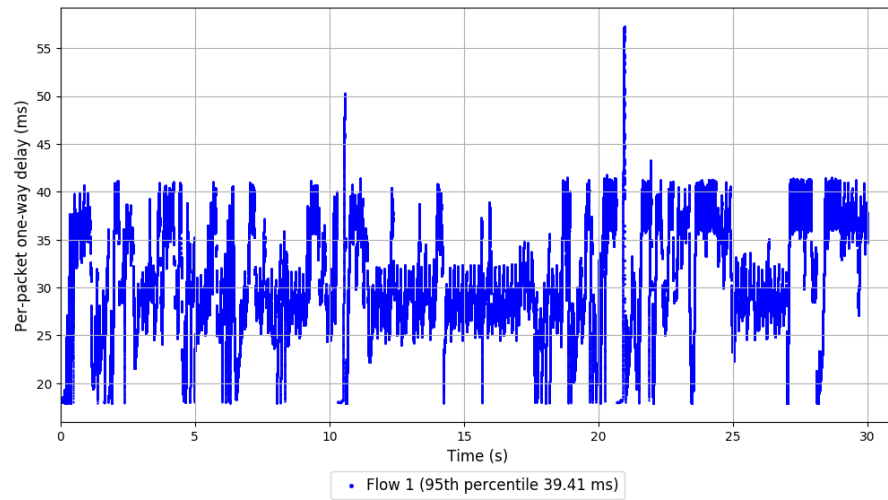
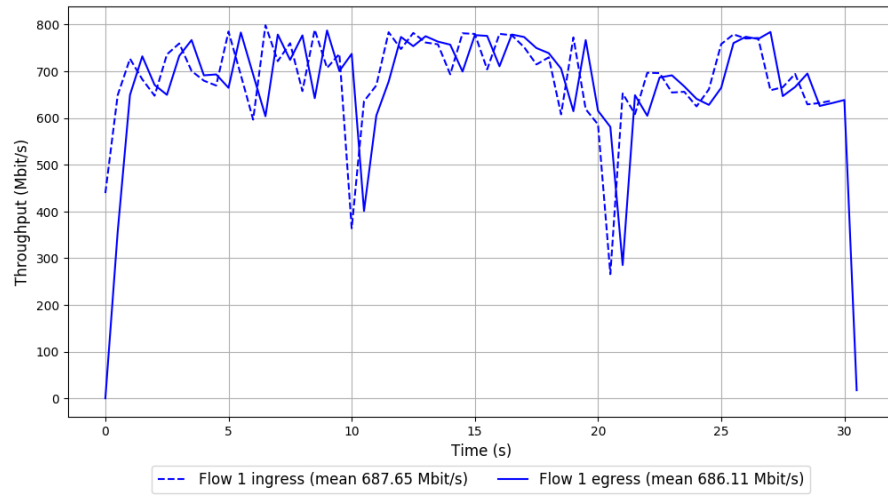
-- Flow 1:

Average throughput: 686.11 Mbit/s

95th percentile per-packet one-way delay: 39.409 ms

Loss rate: 0.22%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-06-05 05:02:37

End at: 2018-06-05 05:03:07

Local clock offset: 0.188 ms

Remote clock offset: 0.227 ms

Below is generated by plot.py at 2018-06-05 08:35:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 700.23 Mbit/s

95th percentile per-packet one-way delay: 37.355 ms

Loss rate: 0.18%

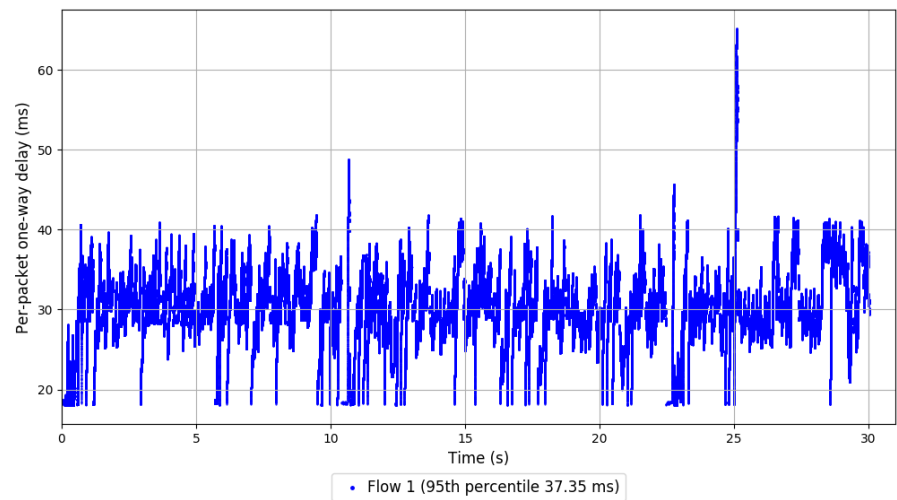
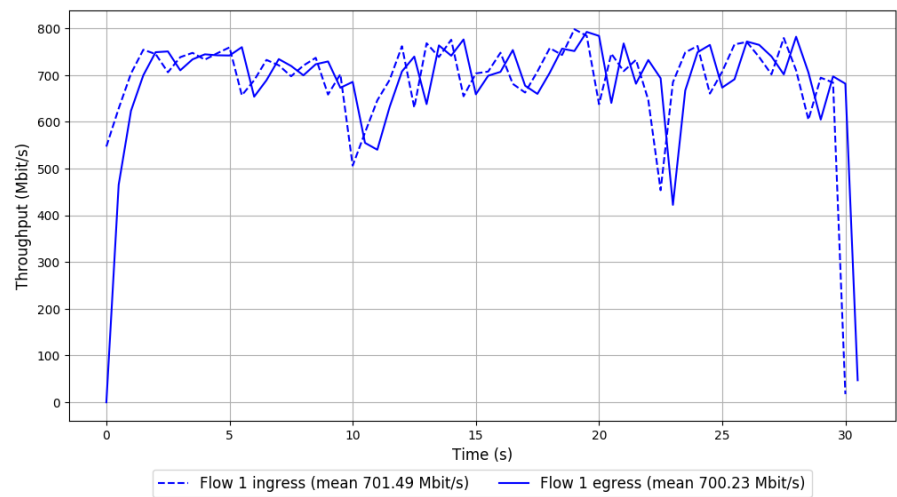
-- Flow 1:

Average throughput: 700.23 Mbit/s

95th percentile per-packet one-way delay: 37.355 ms

Loss rate: 0.18%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-06-05 05:26:25

End at: 2018-06-05 05:26:55

Local clock offset: 0.127 ms

Remote clock offset: 0.242 ms

Below is generated by plot.py at 2018-06-05 08:35:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 695.27 Mbit/s

95th percentile per-packet one-way delay: 34.833 ms

Loss rate: 0.61%

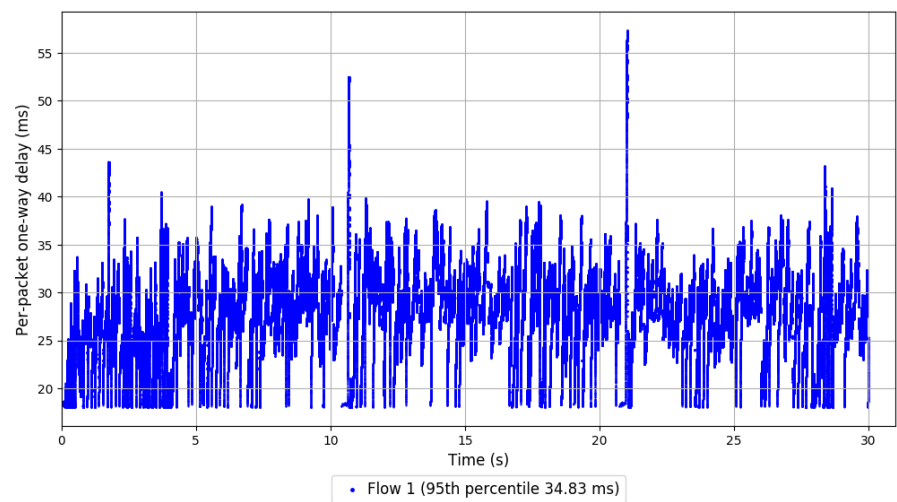
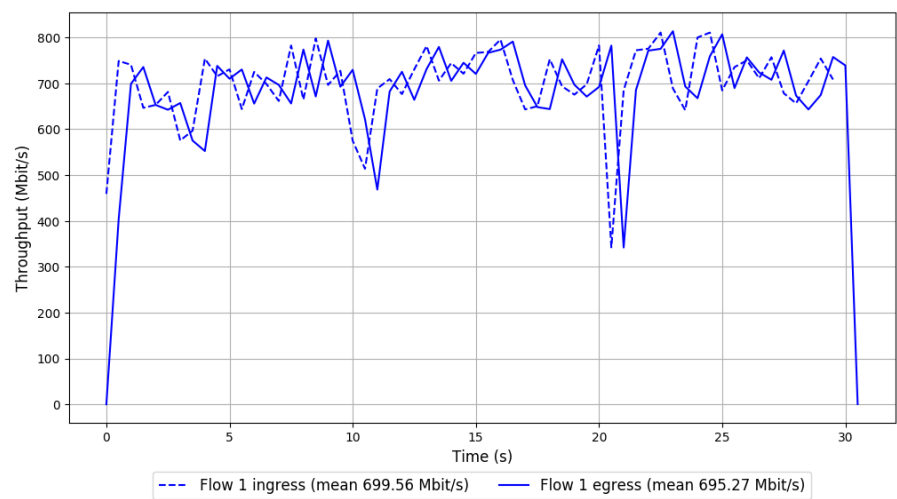
-- Flow 1:

Average throughput: 695.27 Mbit/s

95th percentile per-packet one-way delay: 34.833 ms

Loss rate: 0.61%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-06-05 05:50:18

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

Local clock offset: 0.223 ms

Remote clock offset: 0.1 ms

Below is generated by plot.py at 2018-06-05 08:35:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 701.56 Mbit/s

95th percentile per-packet one-way delay: 35.579 ms

Loss rate: 0.34%

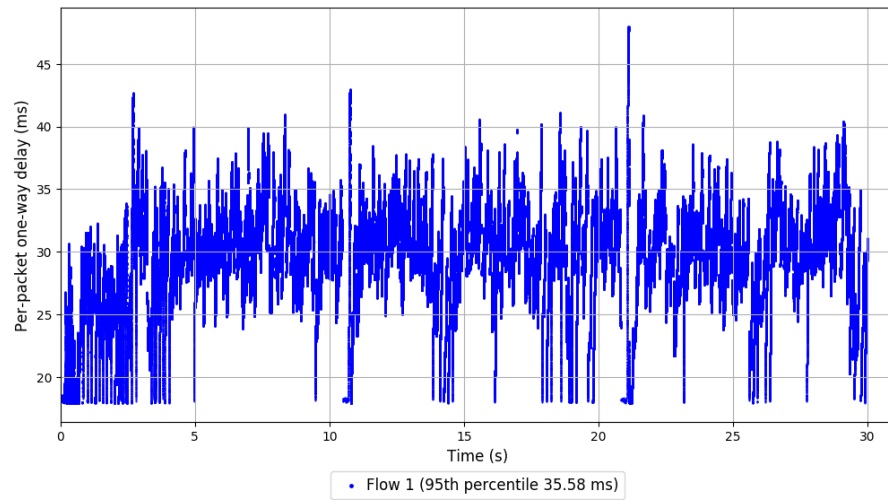
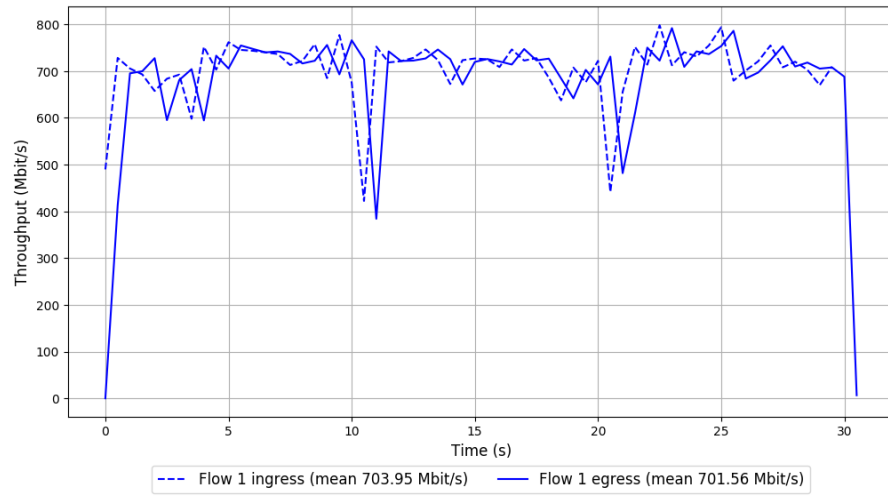
-- Flow 1:

Average throughput: 701.56 Mbit/s

95th percentile per-packet one-way delay: 35.579 ms

Loss rate: 0.34%

Run 4: Report of TCP BBR — Data Link

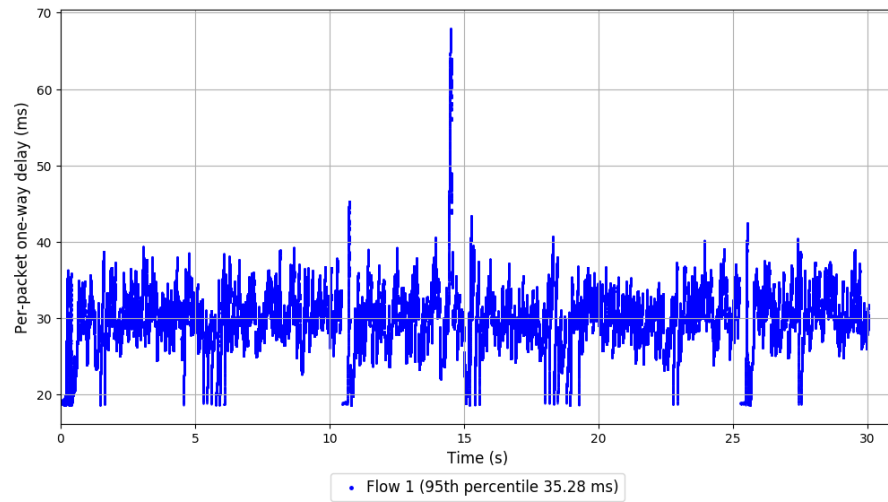
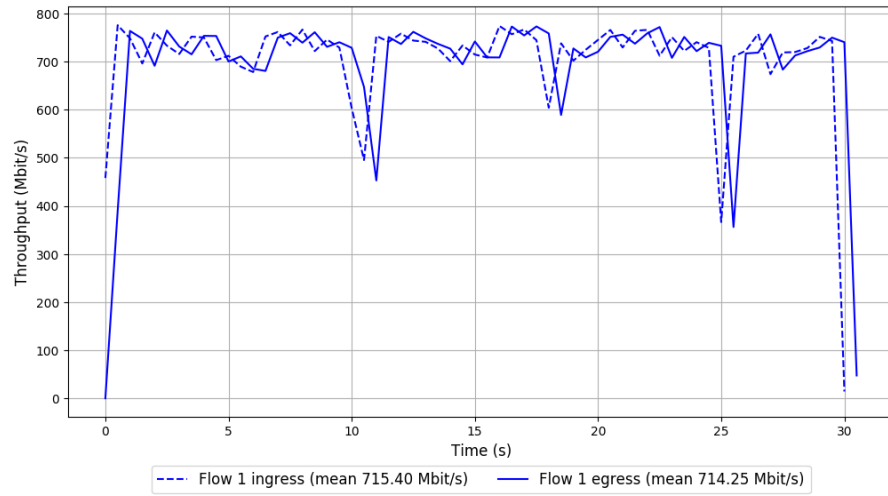


Run 5: Statistics of TCP BBR

Start at: 2018-06-05 06:14:11
End at: 2018-06-05 06:14:41
Local clock offset: 0.398 ms
Remote clock offset: -0.583 ms

Below is generated by plot.py at 2018-06-05 08:35:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 714.25 Mbit/s
95th percentile per-packet one-way delay: 35.283 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 714.25 Mbit/s
95th percentile per-packet one-way delay: 35.283 ms
Loss rate: 0.16%

Run 5: Report of TCP BBR — Data Link

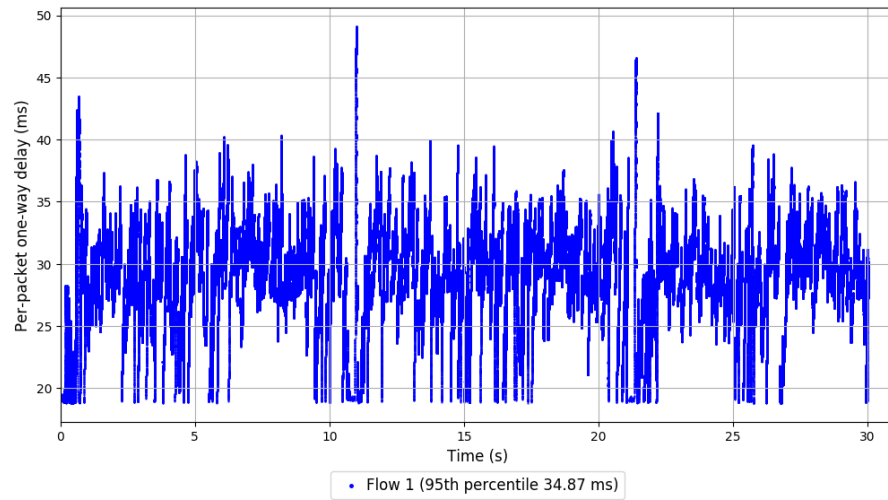
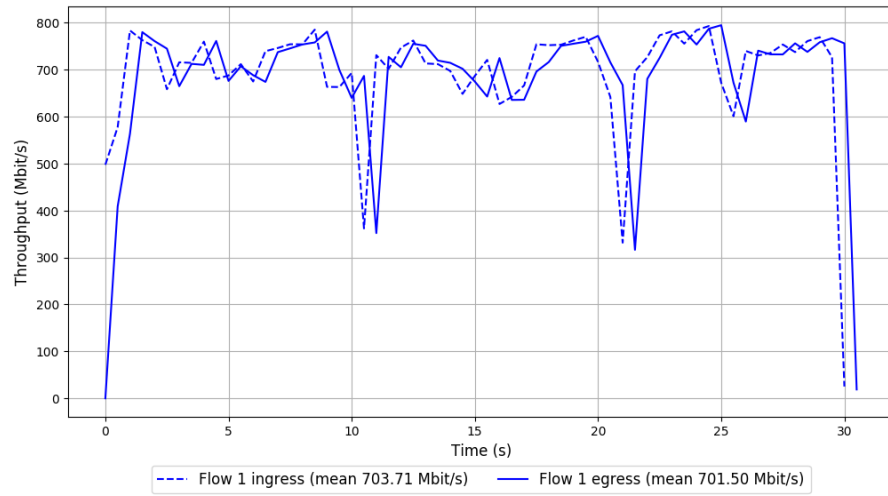


Run 6: Statistics of TCP BBR

Start at: 2018-06-05 06:37:59
End at: 2018-06-05 06:38:29
Local clock offset: 0.413 ms
Remote clock offset: -1.047 ms

Below is generated by plot.py at 2018-06-05 08:35:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 701.50 Mbit/s
95th percentile per-packet one-way delay: 34.870 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 701.50 Mbit/s
95th percentile per-packet one-way delay: 34.870 ms
Loss rate: 0.31%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-06-05 07:01:44

End at: 2018-06-05 07:02:14

Local clock offset: 0.388 ms

Remote clock offset: -1.308 ms

Below is generated by plot.py at 2018-06-05 08:35:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 697.72 Mbit/s

95th percentile per-packet one-way delay: 35.585 ms

Loss rate: 0.22%

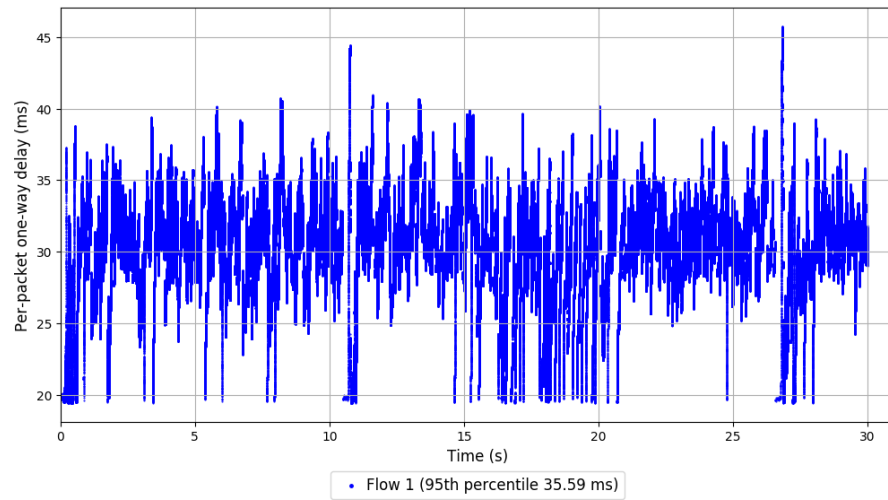
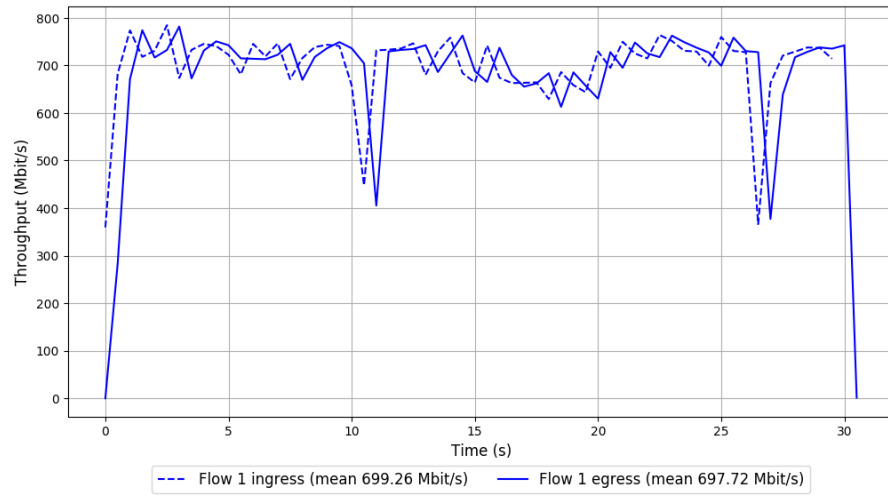
-- Flow 1:

Average throughput: 697.72 Mbit/s

95th percentile per-packet one-way delay: 35.585 ms

Loss rate: 0.22%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-06-05 07:25:33

End at: 2018-06-05 07:26:03

Local clock offset: 0.277 ms

Remote clock offset: 0.412 ms

Below is generated by plot.py at 2018-06-05 08:35:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 694.38 Mbit/s

95th percentile per-packet one-way delay: 35.547 ms

Loss rate: 0.21%

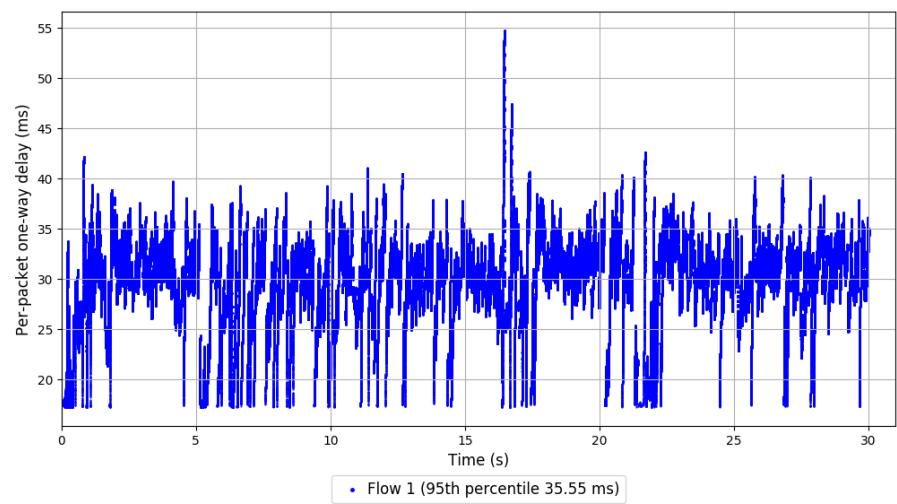
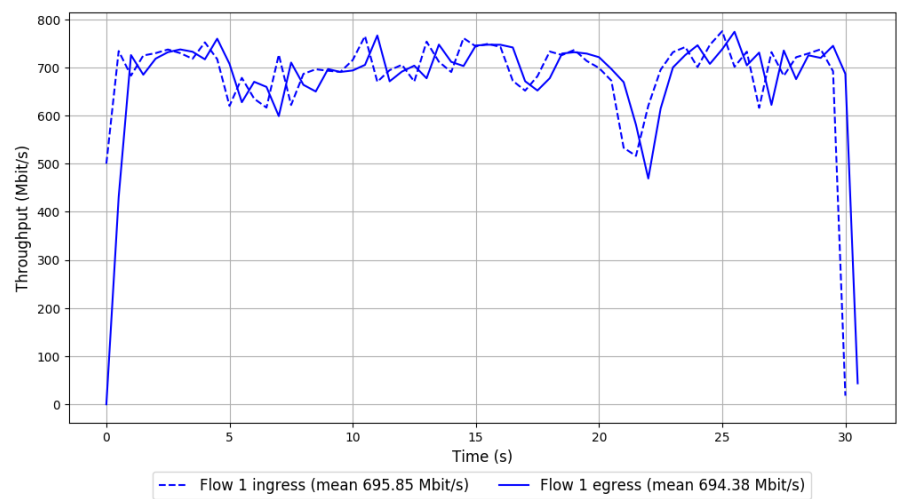
-- Flow 1:

Average throughput: 694.38 Mbit/s

95th percentile per-packet one-way delay: 35.547 ms

Loss rate: 0.21%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-06-05 07:49:22

End at: 2018-06-05 07:49:53

Local clock offset: -0.024 ms

Remote clock offset: 0.57 ms

Below is generated by plot.py at 2018-06-05 08:43:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 698.36 Mbit/s

95th percentile per-packet one-way delay: 34.579 ms

Loss rate: 0.34%

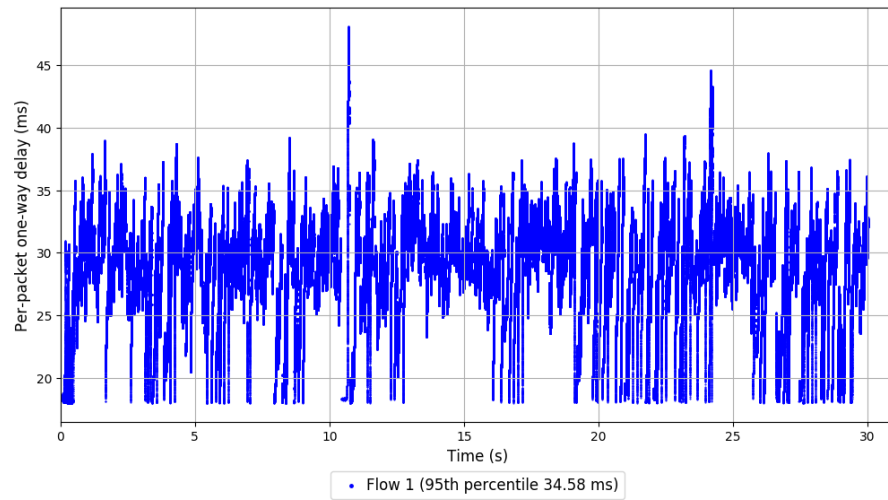
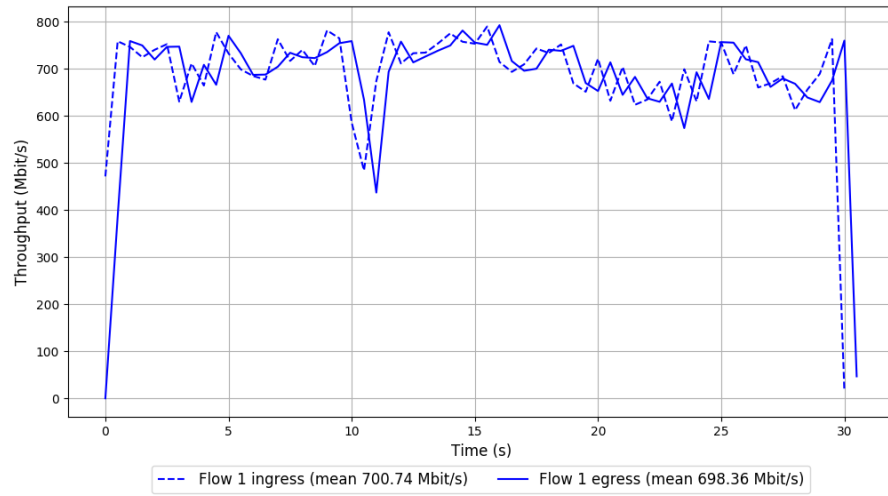
-- Flow 1:

Average throughput: 698.36 Mbit/s

95th percentile per-packet one-way delay: 34.579 ms

Loss rate: 0.34%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-06-05 08:13:13

End at: 2018-06-05 08:13:43

Local clock offset: 0.039 ms

Remote clock offset: 0.114 ms

Below is generated by plot.py at 2018-06-05 08:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 702.07 Mbit/s

95th percentile per-packet one-way delay: 35.065 ms

Loss rate: 0.33%

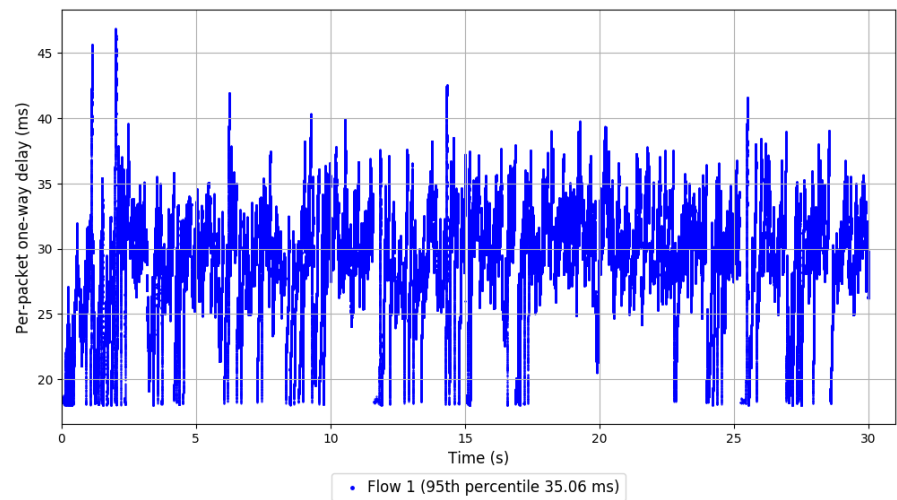
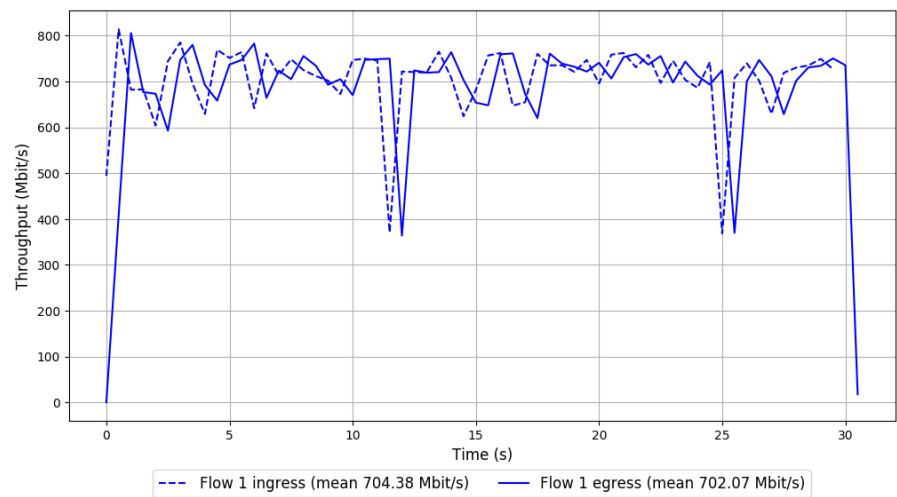
-- Flow 1:

Average throughput: 702.07 Mbit/s

95th percentile per-packet one-way delay: 35.065 ms

Loss rate: 0.33%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-06-05 04:21:00

End at: 2018-06-05 04:21:30

Local clock offset: 0.427 ms

Remote clock offset: 0.448 ms

Below is generated by plot.py at 2018-06-05 08:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 341.85 Mbit/s

95th percentile per-packet one-way delay: 19.318 ms

Loss rate: 0.02%

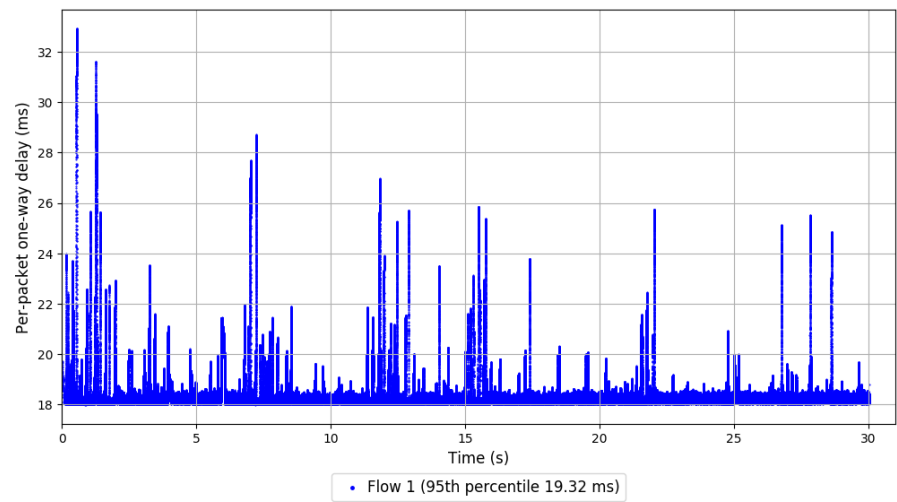
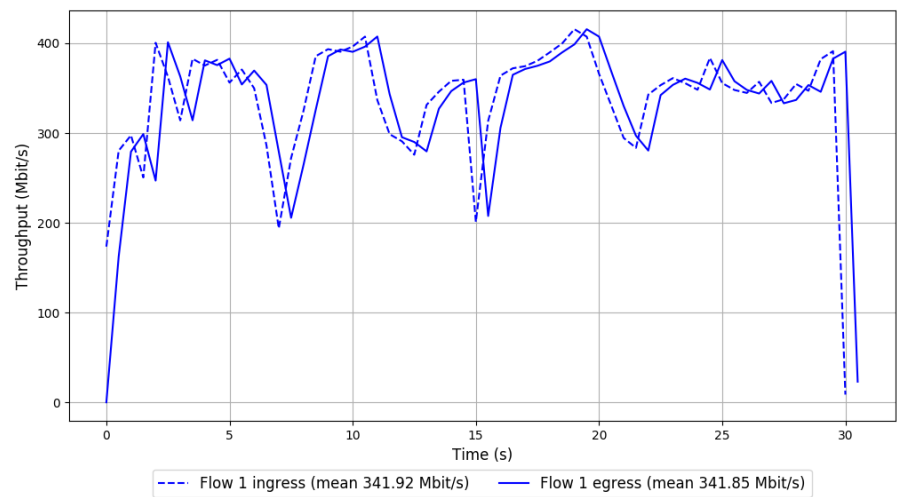
-- Flow 1:

Average throughput: 341.85 Mbit/s

95th percentile per-packet one-way delay: 19.318 ms

Loss rate: 0.02%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-06-05 04:44:50

End at: 2018-06-05 04:45:20

Local clock offset: 0.488 ms

Remote clock offset: 0.322 ms

Below is generated by plot.py at 2018-06-05 08:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 366.87 Mbit/s

95th percentile per-packet one-way delay: 20.574 ms

Loss rate: 0.00%

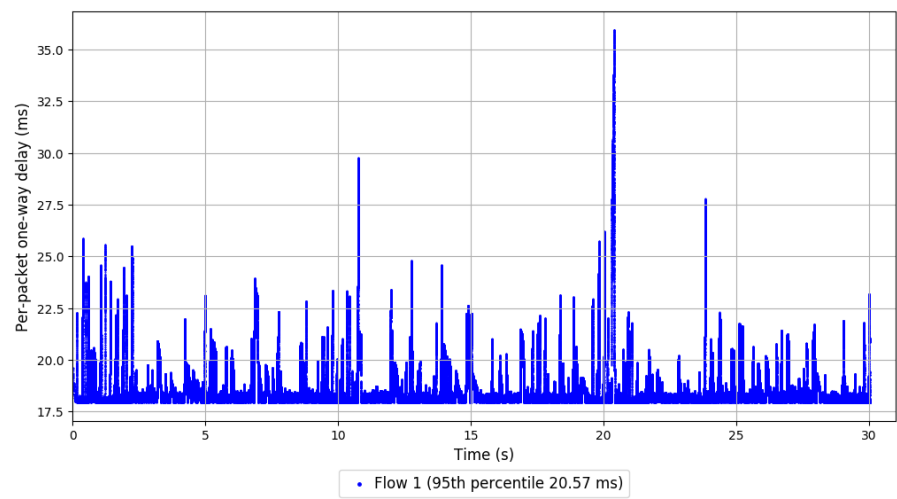
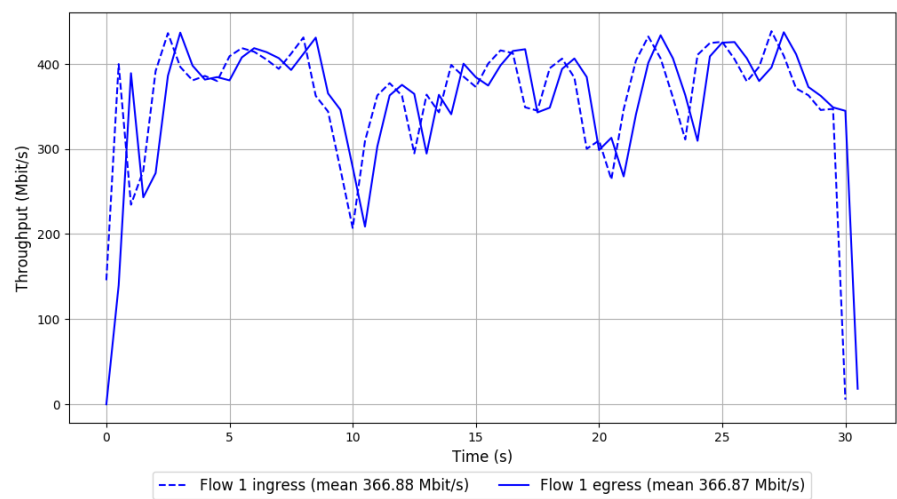
-- Flow 1:

Average throughput: 366.87 Mbit/s

95th percentile per-packet one-way delay: 20.574 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-06-05 05:08:29

End at: 2018-06-05 05:08:59

Local clock offset: 0.137 ms

Remote clock offset: 0.151 ms

Below is generated by plot.py at 2018-06-05 08:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 348.27 Mbit/s

95th percentile per-packet one-way delay: 20.749 ms

Loss rate: 0.01%

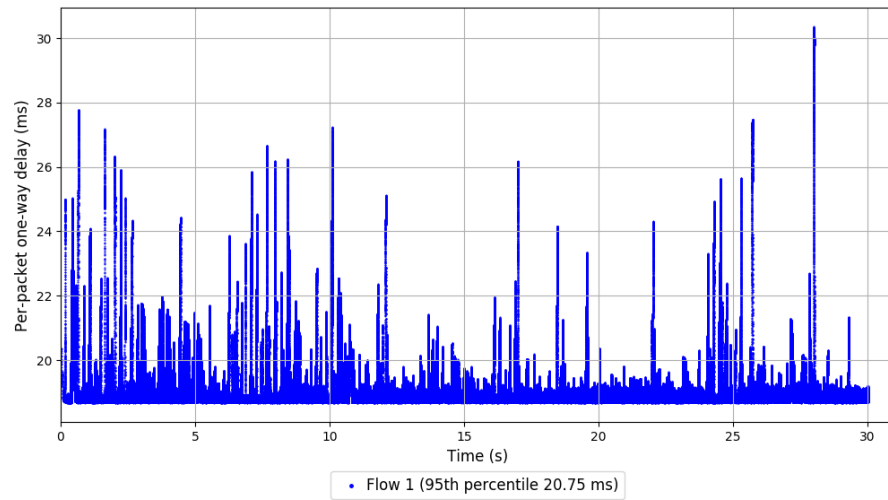
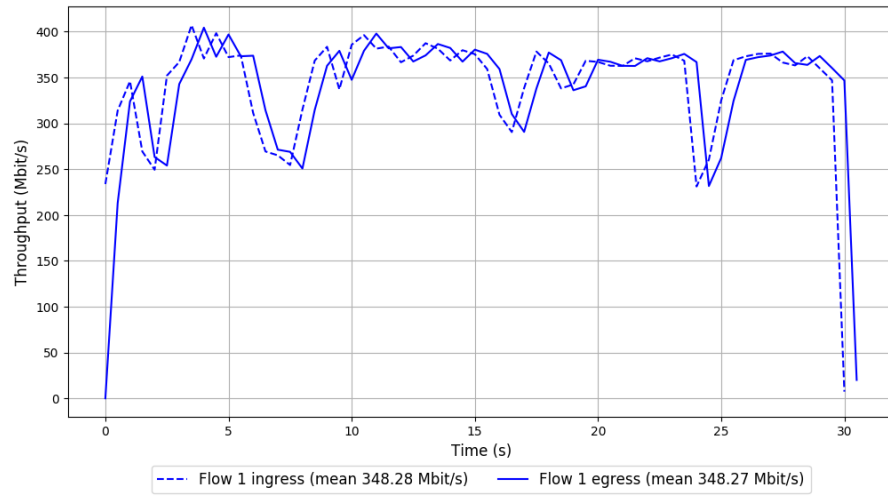
-- Flow 1:

Average throughput: 348.27 Mbit/s

95th percentile per-packet one-way delay: 20.749 ms

Loss rate: 0.01%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

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

End at: 2018-06-05 05:32:52

Local clock offset: 0.234 ms

Remote clock offset: 0.131 ms

Below is generated by plot.py at 2018-06-05 08:44:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 392.01 Mbit/s

95th percentile per-packet one-way delay: 19.936 ms

Loss rate: 0.00%

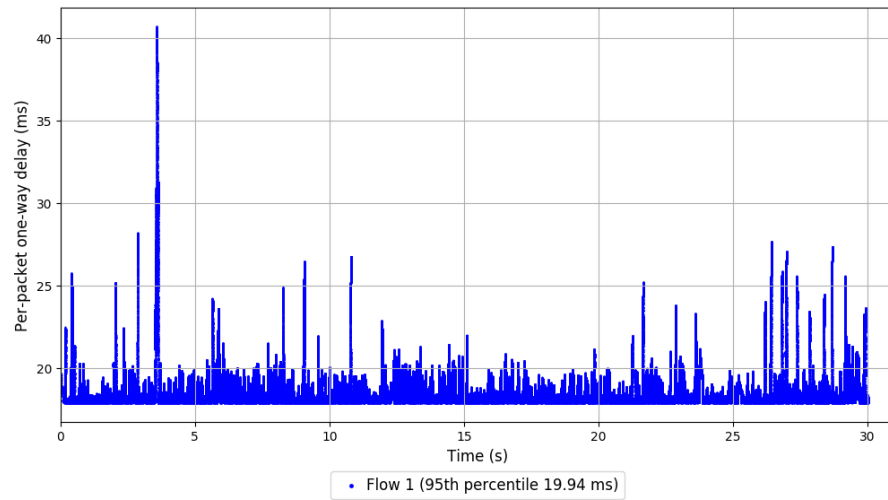
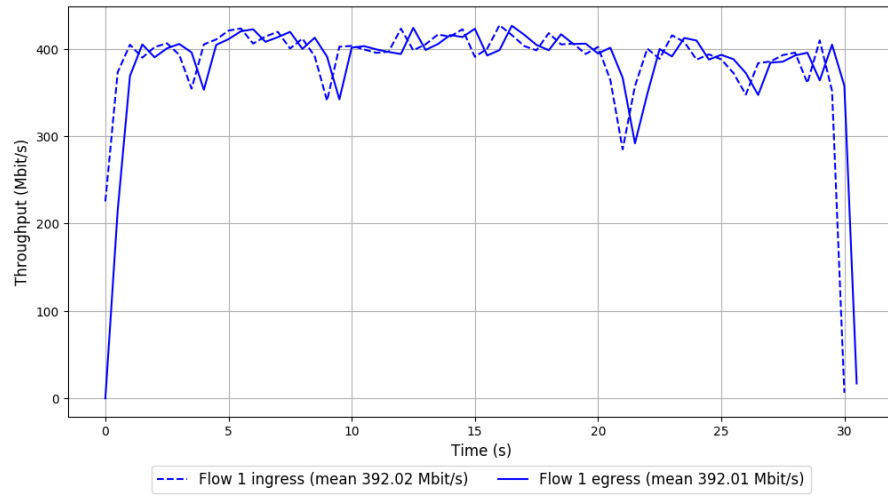
-- Flow 1:

Average throughput: 392.01 Mbit/s

95th percentile per-packet one-way delay: 19.936 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-06-05 05:56:16

End at: 2018-06-05 05:56:46

Local clock offset: 0.293 ms

Remote clock offset: 0.188 ms

Below is generated by plot.py at 2018-06-05 08:44:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 340.21 Mbit/s

95th percentile per-packet one-way delay: 20.582 ms

Loss rate: 0.01%

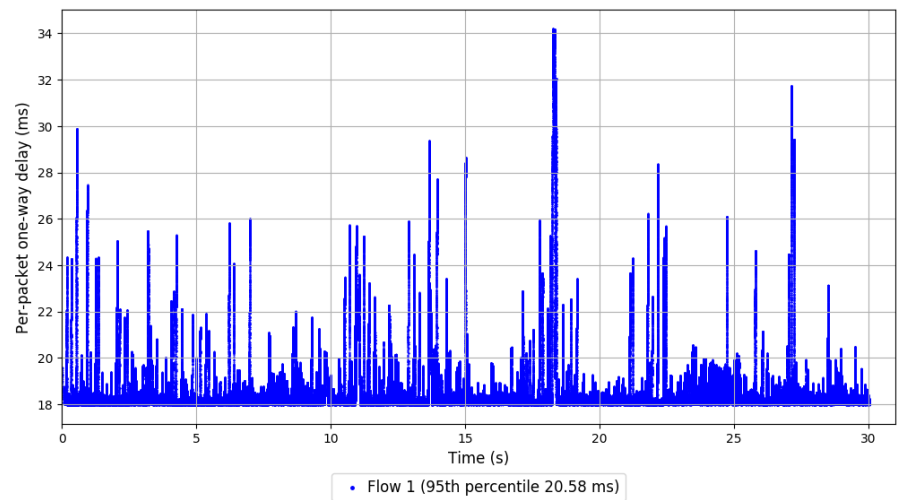
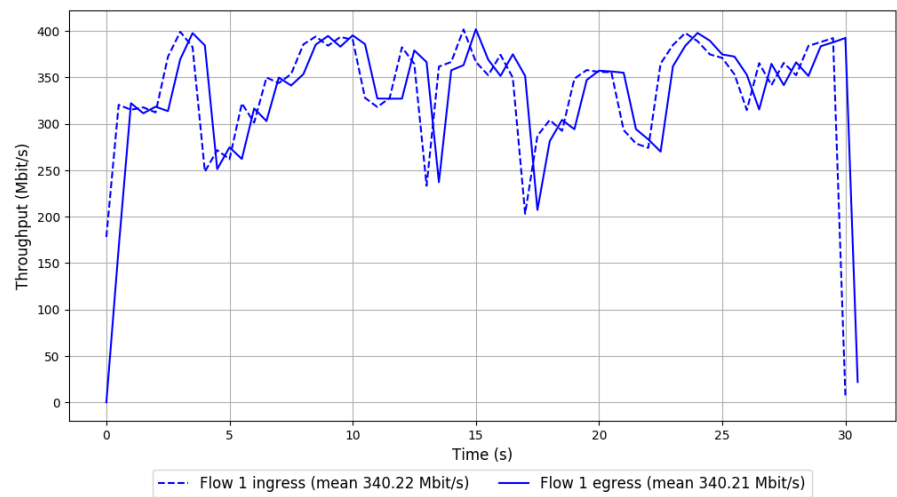
-- Flow 1:

Average throughput: 340.21 Mbit/s

95th percentile per-packet one-way delay: 20.582 ms

Loss rate: 0.01%

Run 5: Report of Copa — Data Link

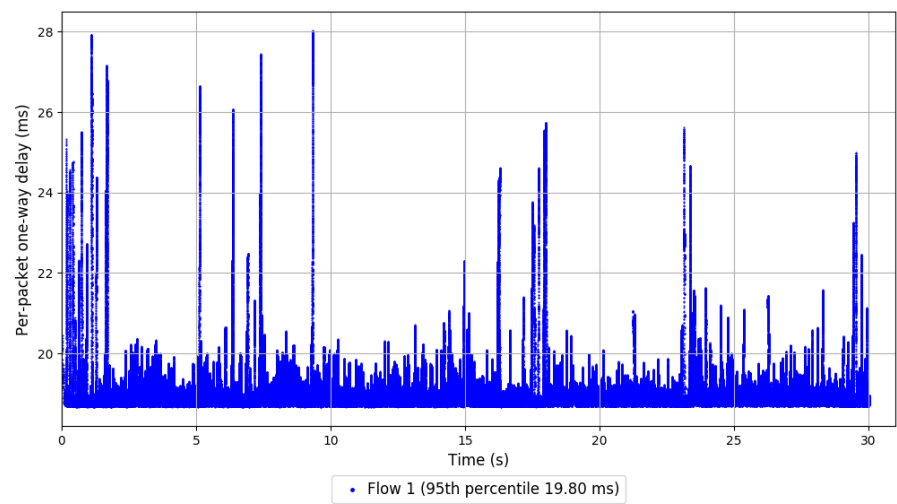
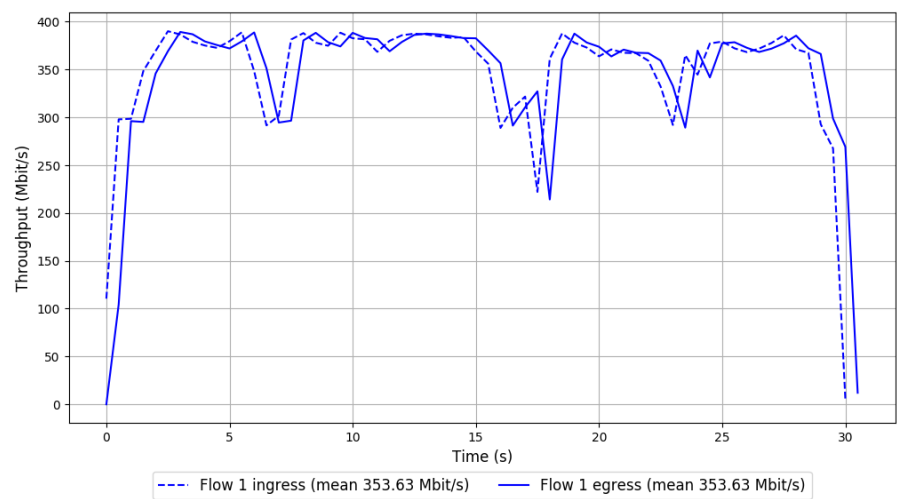


Run 6: Statistics of Copa

Start at: 2018-06-05 06:20:11
End at: 2018-06-05 06:20:41
Local clock offset: 0.291 ms
Remote clock offset: -0.796 ms

Below is generated by plot.py at 2018-06-05 08:44:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 353.63 Mbit/s
95th percentile per-packet one-way delay: 19.798 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 353.63 Mbit/s
95th percentile per-packet one-way delay: 19.798 ms
Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-06-05 06:43:56

End at: 2018-06-05 06:44:26

Local clock offset: 0.307 ms

Remote clock offset: -1.05 ms

Below is generated by plot.py at 2018-06-05 08:50:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 341.58 Mbit/s

95th percentile per-packet one-way delay: 19.675 ms

Loss rate: 0.00%

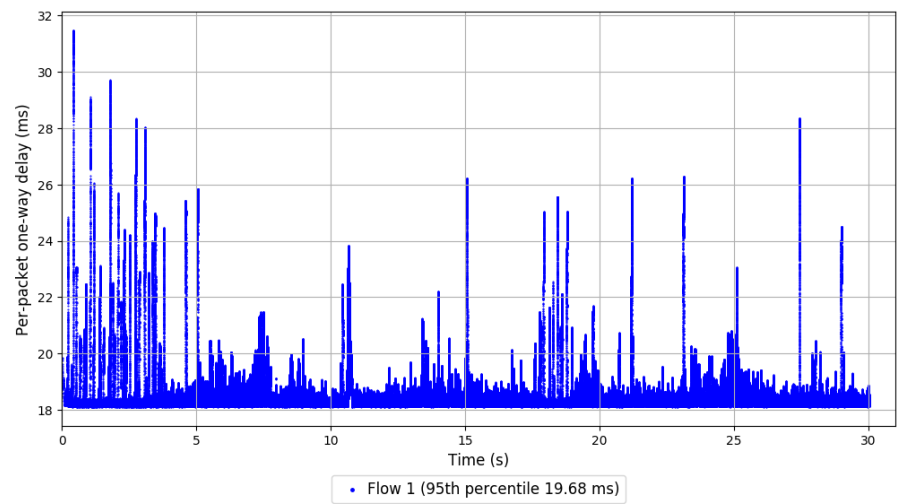
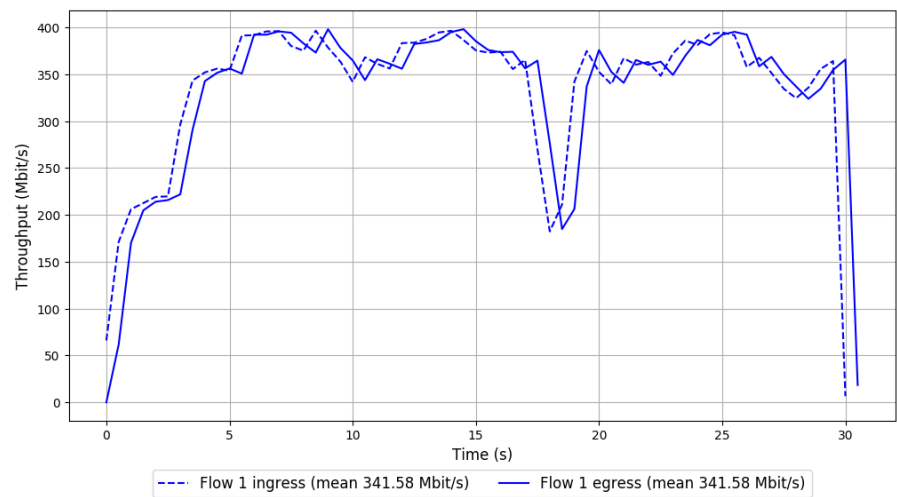
-- Flow 1:

Average throughput: 341.58 Mbit/s

95th percentile per-packet one-way delay: 19.675 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-06-05 07:07:43

End at: 2018-06-05 07:08:13

Local clock offset: 0.308 ms

Remote clock offset: -1.46 ms

Below is generated by plot.py at 2018-06-05 08:50:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 345.19 Mbit/s

95th percentile per-packet one-way delay: 19.386 ms

Loss rate: 0.02%

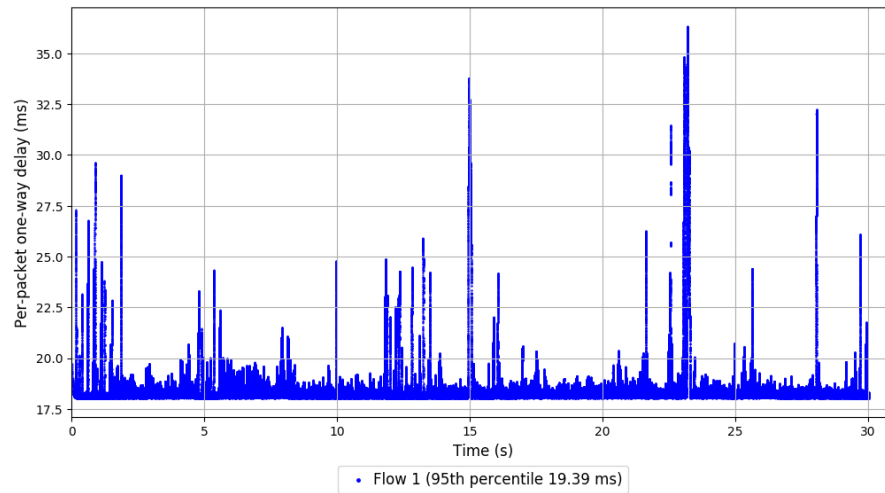
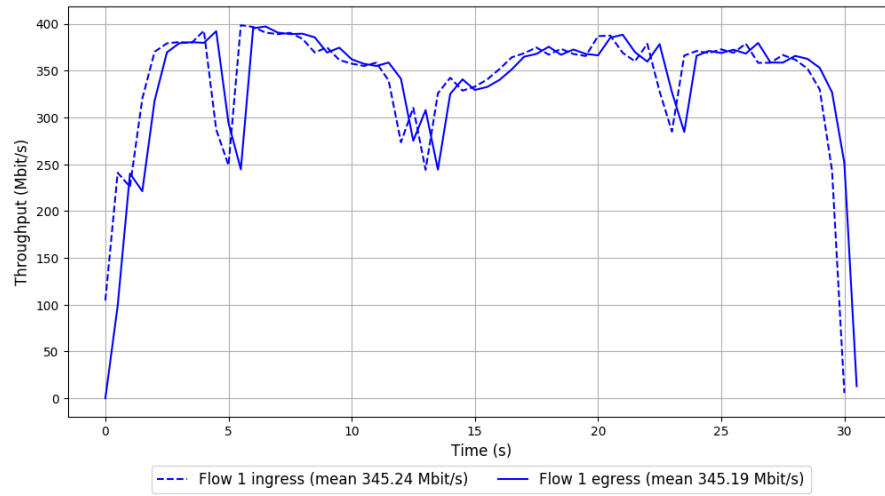
-- Flow 1:

Average throughput: 345.19 Mbit/s

95th percentile per-packet one-way delay: 19.386 ms

Loss rate: 0.02%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-06-05 07:31:28

End at: 2018-06-05 07:31:58

Local clock offset: 0.2 ms

Remote clock offset: 0.737 ms

Below is generated by plot.py at 2018-06-05 08:51:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 353.23 Mbit/s

95th percentile per-packet one-way delay: 19.600 ms

Loss rate: 0.00%

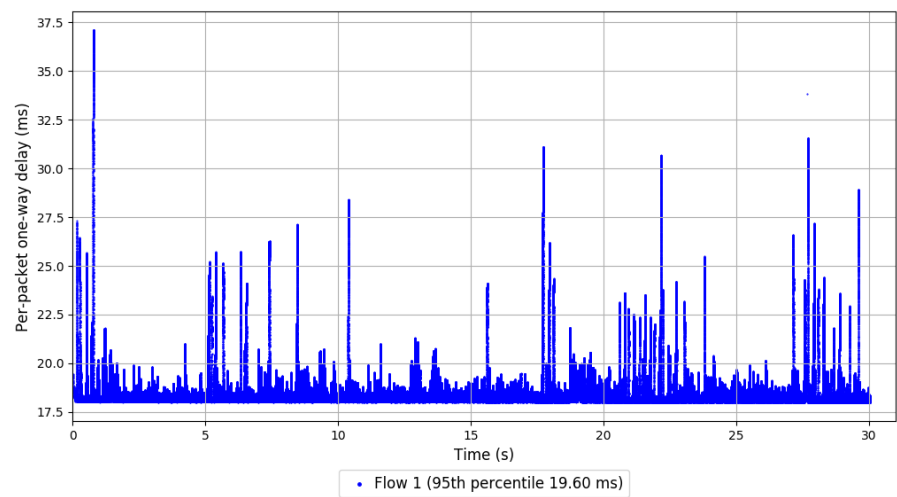
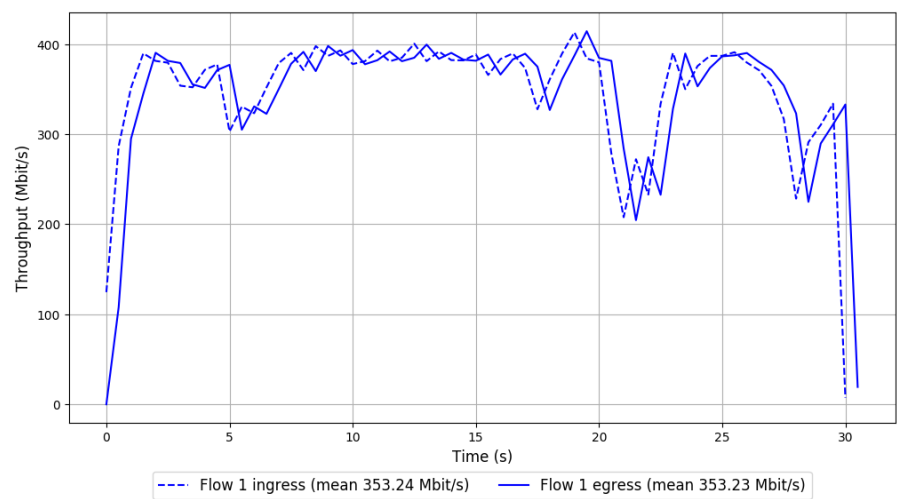
-- Flow 1:

Average throughput: 353.23 Mbit/s

95th percentile per-packet one-way delay: 19.600 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-06-05 07:55:19

End at: 2018-06-05 07:55:49

Local clock offset: 0.074 ms

Remote clock offset: 0.357 ms

Below is generated by plot.py at 2018-06-05 08:51:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 378.31 Mbit/s

95th percentile per-packet one-way delay: 19.310 ms

Loss rate: 0.00%

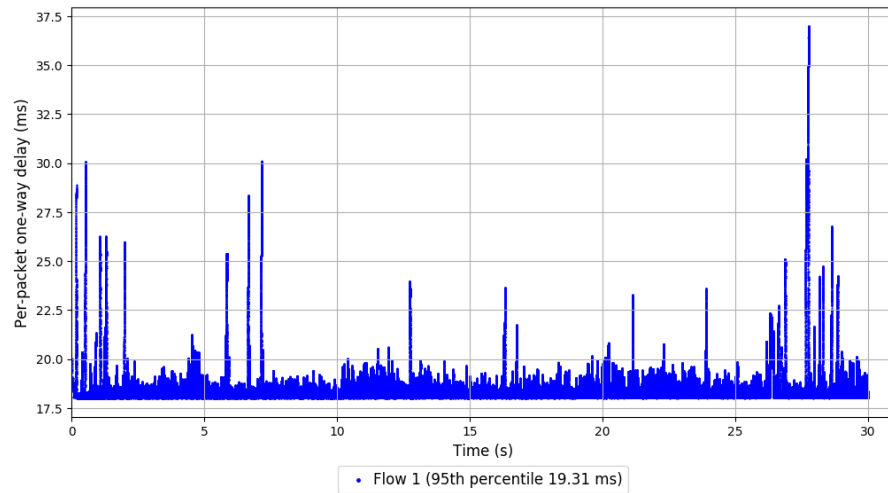
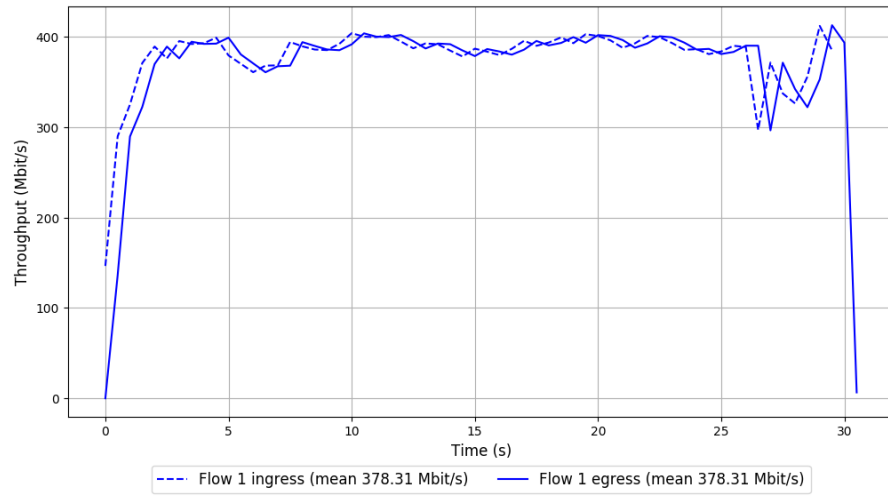
-- Flow 1:

Average throughput: 378.31 Mbit/s

95th percentile per-packet one-way delay: 19.310 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-06-05 04:24:07

End at: 2018-06-05 04:24:37

Local clock offset: 0.434 ms

Remote clock offset: 0.274 ms

Below is generated by plot.py at 2018-06-05 08:51:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 141.74 Mbit/s

95th percentile per-packet one-way delay: 25.791 ms

Loss rate: 0.09%

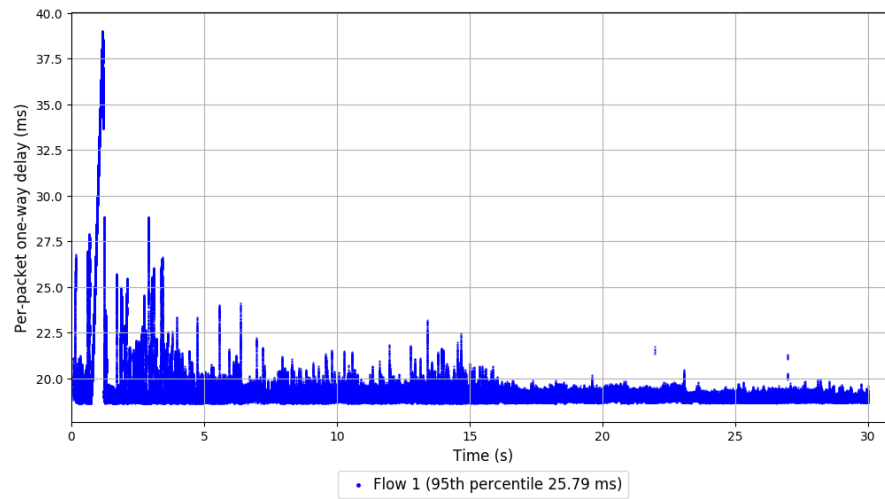
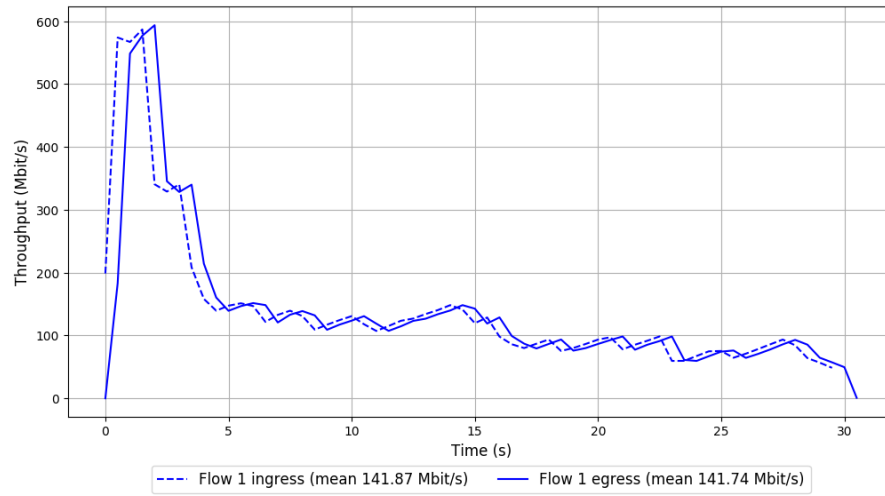
-- Flow 1:

Average throughput: 141.74 Mbit/s

95th percentile per-packet one-way delay: 25.791 ms

Loss rate: 0.09%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-06-05 04:47:54

End at: 2018-06-05 04:48:24

Local clock offset: 0.48 ms

Remote clock offset: 0.385 ms

Below is generated by plot.py at 2018-06-05 08:51:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 127.79 Mbit/s

95th percentile per-packet one-way delay: 19.341 ms

Loss rate: 0.01%

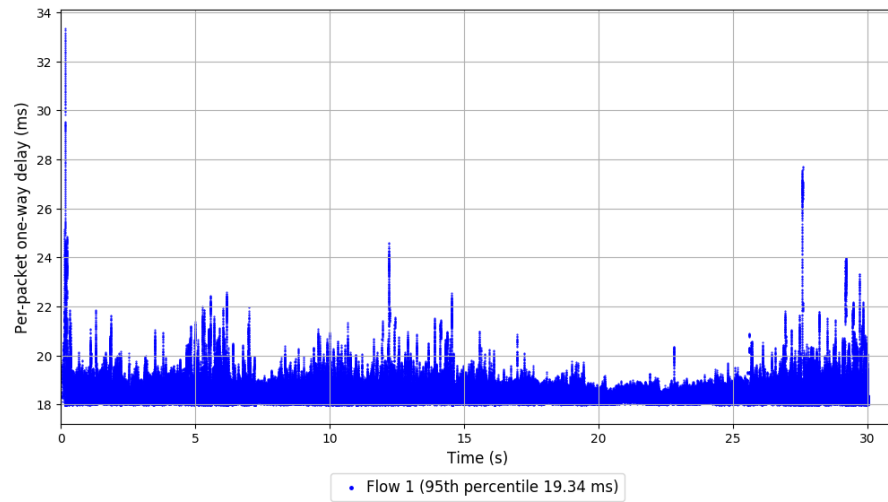
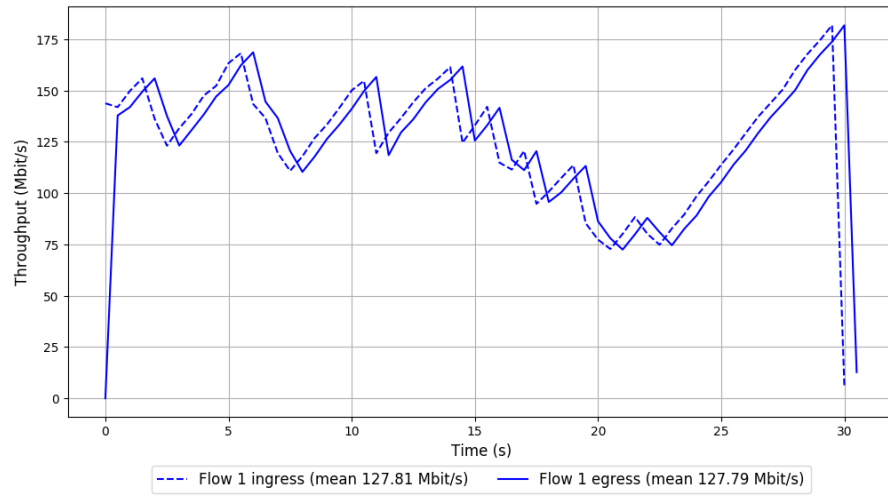
-- Flow 1:

Average throughput: 127.79 Mbit/s

95th percentile per-packet one-way delay: 19.341 ms

Loss rate: 0.01%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-06-05 05:11:34

End at: 2018-06-05 05:12:04

Local clock offset: 0.219 ms

Remote clock offset: 0.184 ms

Below is generated by plot.py at 2018-06-05 08:51:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 307.47 Mbit/s

95th percentile per-packet one-way delay: 22.829 ms

Loss rate: 0.03%

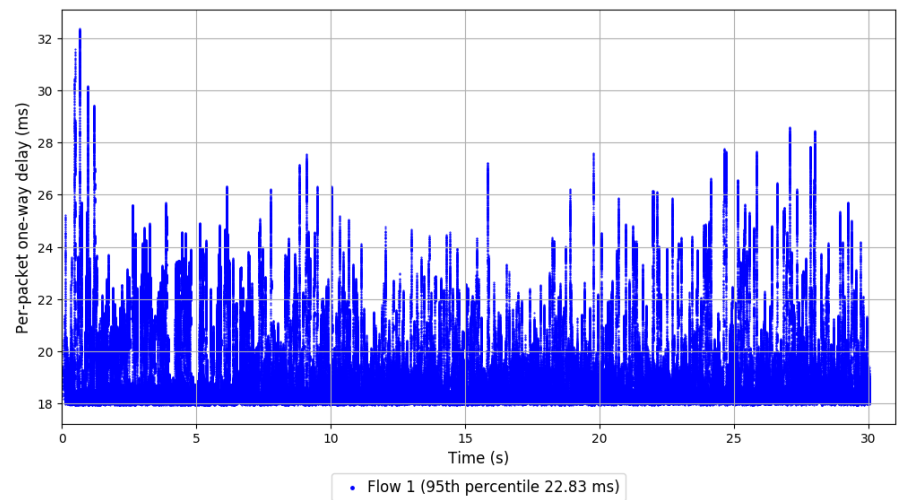
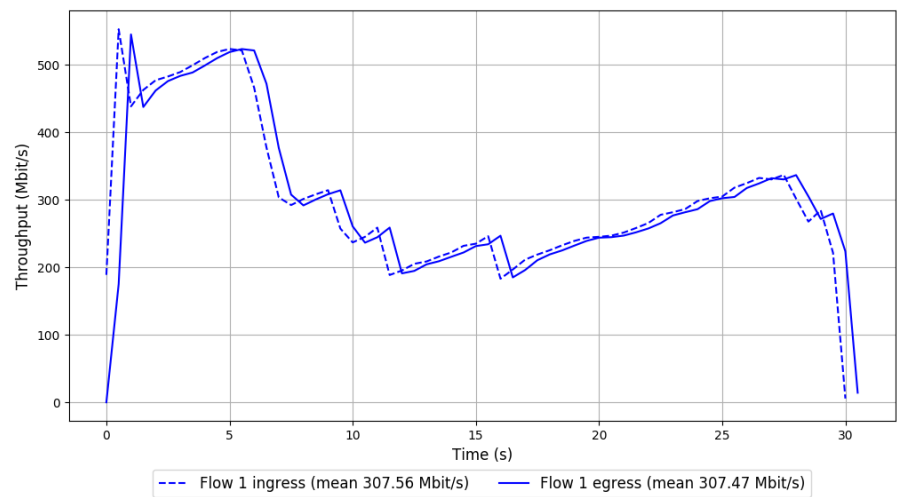
-- Flow 1:

Average throughput: 307.47 Mbit/s

95th percentile per-packet one-way delay: 22.829 ms

Loss rate: 0.03%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-06-05 05:35:29

End at: 2018-06-05 05:36:00

Local clock offset: 0.121 ms

Remote clock offset: 0.099 ms

Below is generated by plot.py at 2018-06-05 08:51:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 375.58 Mbit/s

95th percentile per-packet one-way delay: 23.592 ms

Loss rate: 0.03%

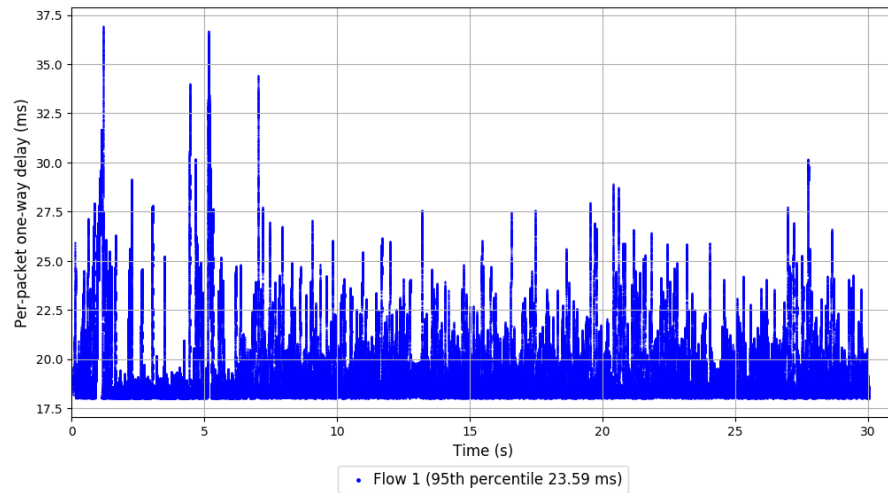
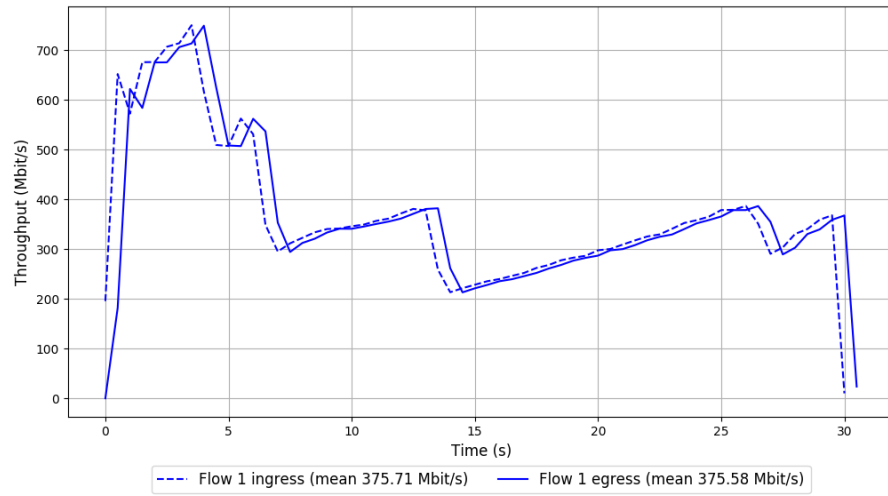
-- Flow 1:

Average throughput: 375.58 Mbit/s

95th percentile per-packet one-way delay: 23.592 ms

Loss rate: 0.03%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

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

End at: 2018-06-05 05:59:51

Local clock offset: 0.322 ms

Remote clock offset: 0.178 ms

Below is generated by plot.py at 2018-06-05 08:51:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 283.63 Mbit/s

95th percentile per-packet one-way delay: 22.437 ms

Loss rate: 0.03%

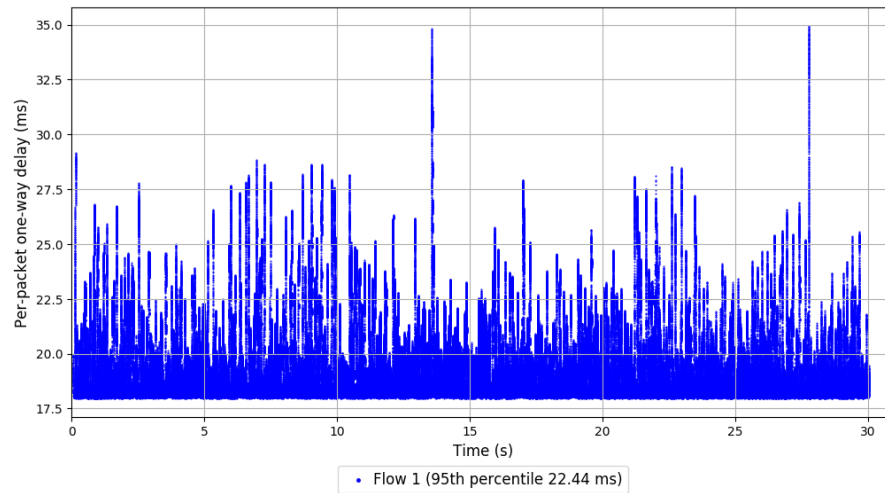
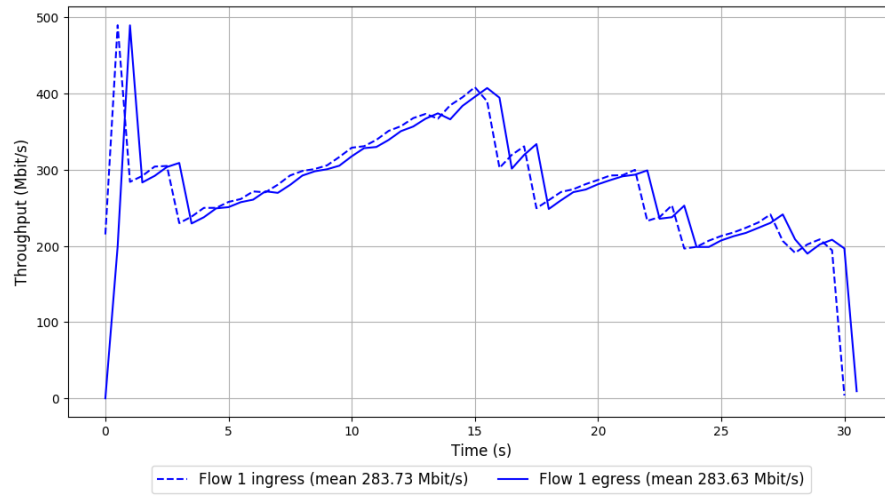
-- Flow 1:

Average throughput: 283.63 Mbit/s

95th percentile per-packet one-way delay: 22.437 ms

Loss rate: 0.03%

Run 5: Report of TCP Cubic — Data Link

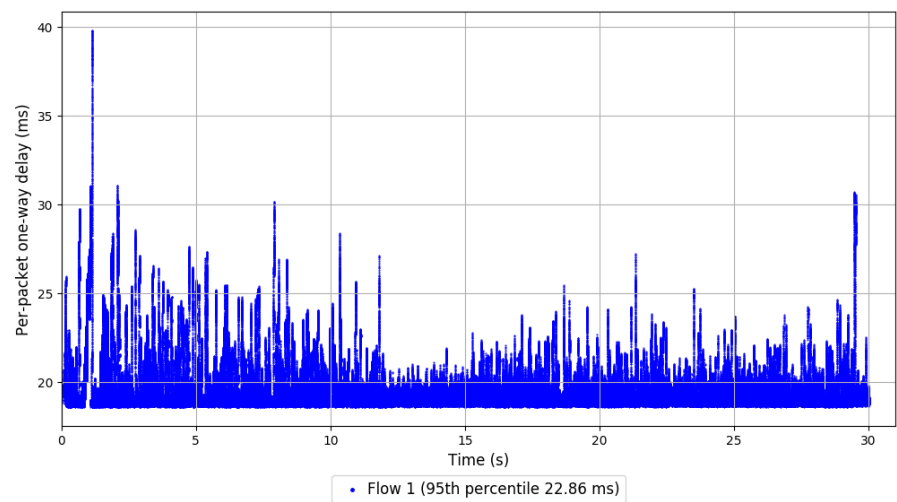
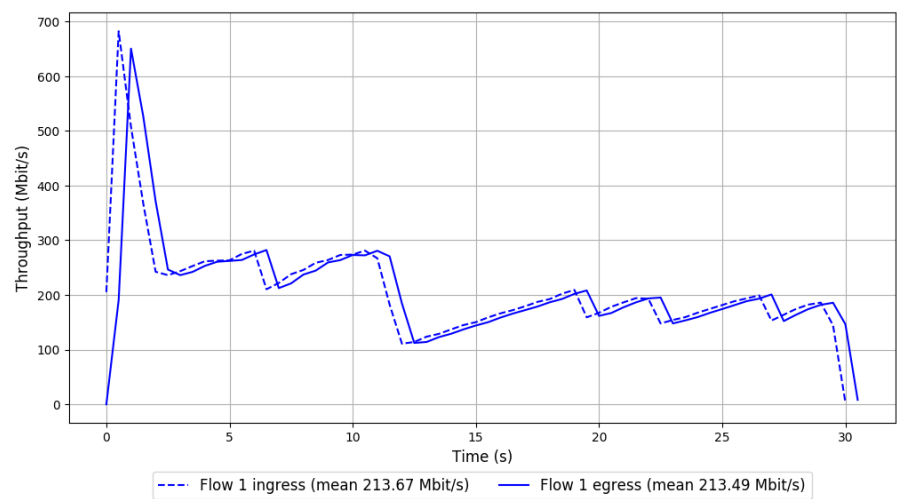


Run 6: Statistics of TCP Cubic

Start at: 2018-06-05 06:23:14
End at: 2018-06-05 06:23:44
Local clock offset: 0.402 ms
Remote clock offset: -0.862 ms

Below is generated by plot.py at 2018-06-05 08:51:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 213.49 Mbit/s
95th percentile per-packet one-way delay: 22.858 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 213.49 Mbit/s
95th percentile per-packet one-way delay: 22.858 ms
Loss rate: 0.09%

Run 6: Report of TCP Cubic — Data Link

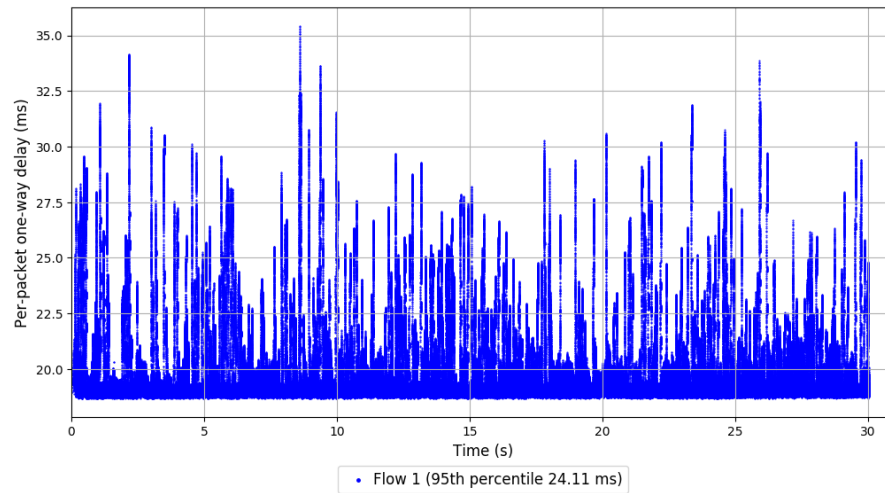
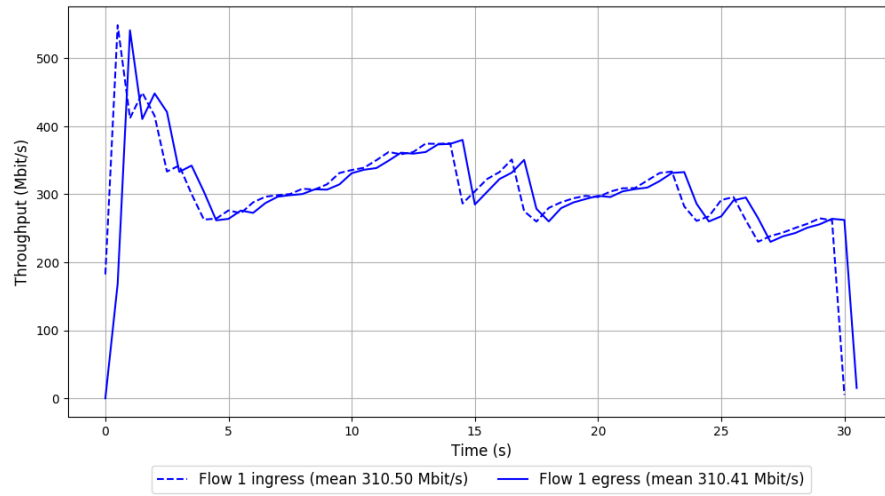


Run 7: Statistics of TCP Cubic

Start at: 2018-06-05 06:46:59
End at: 2018-06-05 06:47:29
Local clock offset: 0.388 ms
Remote clock offset: -1.145 ms

Below is generated by plot.py at 2018-06-05 08:51:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 310.41 Mbit/s
95th percentile per-packet one-way delay: 24.111 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 310.41 Mbit/s
95th percentile per-packet one-way delay: 24.111 ms
Loss rate: 0.03%

Run 7: Report of TCP Cubic — Data Link

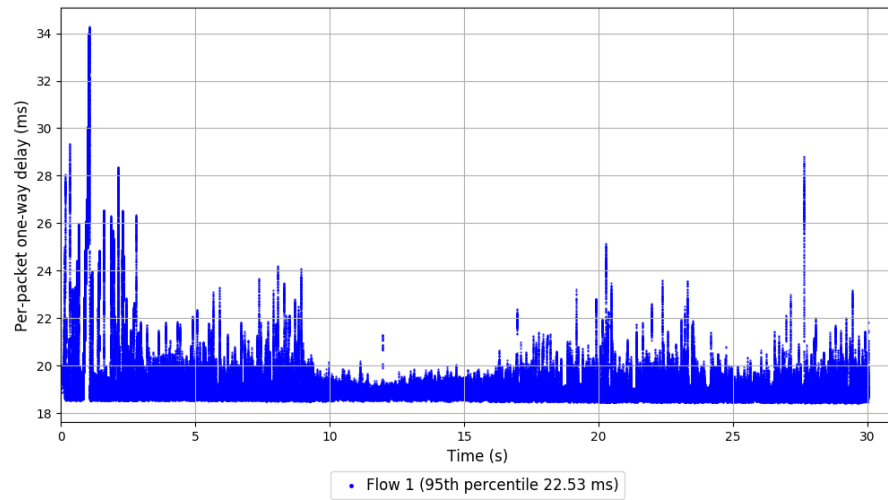
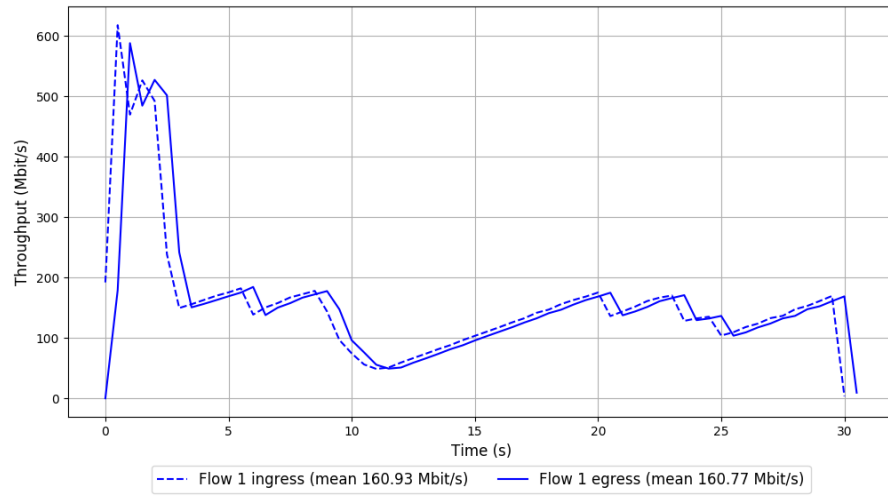


Run 8: Statistics of TCP Cubic

Start at: 2018-06-05 07:10:48
End at: 2018-06-05 07:11:18
Local clock offset: 0.403 ms
Remote clock offset: -1.421 ms

Below is generated by plot.py at 2018-06-05 08:51:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 160.77 Mbit/s
95th percentile per-packet one-way delay: 22.532 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 160.77 Mbit/s
95th percentile per-packet one-way delay: 22.532 ms
Loss rate: 0.09%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-06-05 07:34:33

End at: 2018-06-05 07:35:04

Local clock offset: 0.186 ms

Remote clock offset: 0.837 ms

Below is generated by plot.py at 2018-06-05 08:52:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 313.85 Mbit/s

95th percentile per-packet one-way delay: 22.724 ms

Loss rate: 0.04%

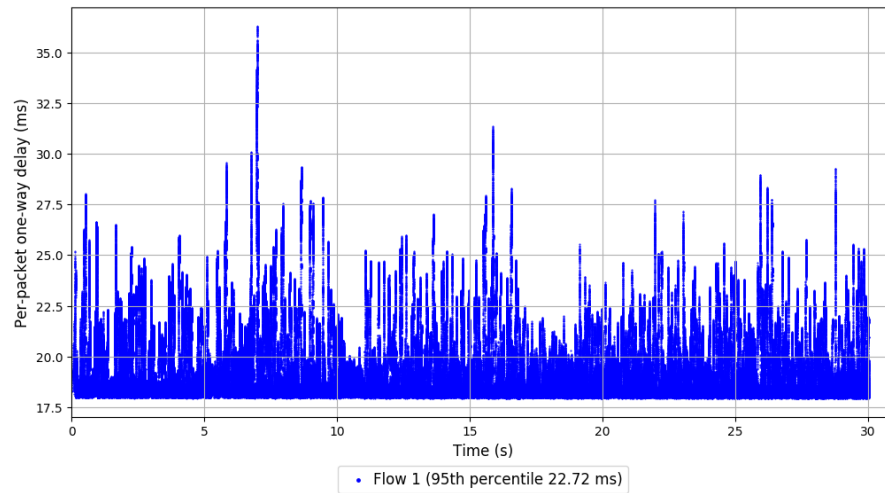
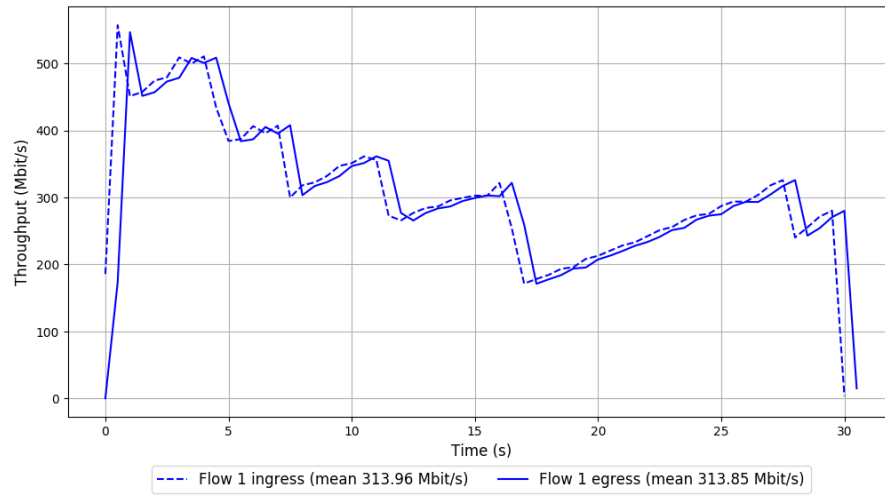
-- Flow 1:

Average throughput: 313.85 Mbit/s

95th percentile per-packet one-way delay: 22.724 ms

Loss rate: 0.04%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-06-05 07:58:25

End at: 2018-06-05 07:58:55

Local clock offset: -0.016 ms

Remote clock offset: 0.209 ms

Below is generated by plot.py at 2018-06-05 08:52:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 238.29 Mbit/s

95th percentile per-packet one-way delay: 22.721 ms

Loss rate: 0.10%

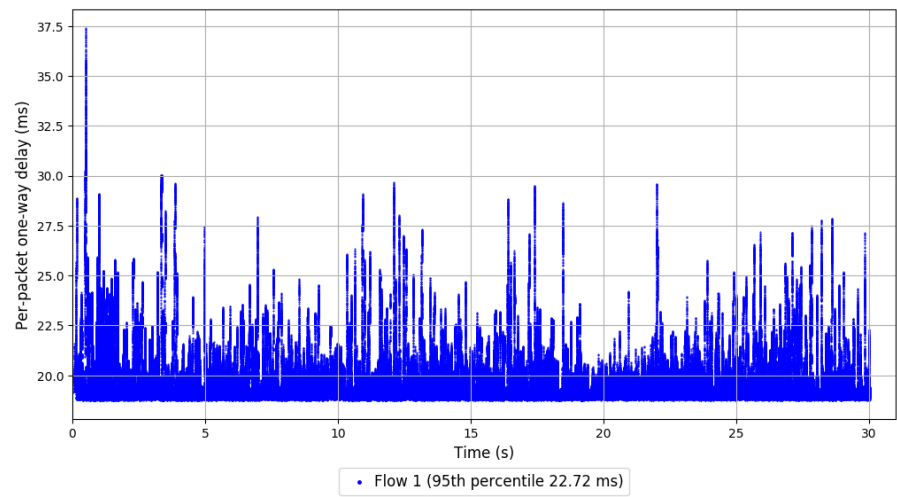
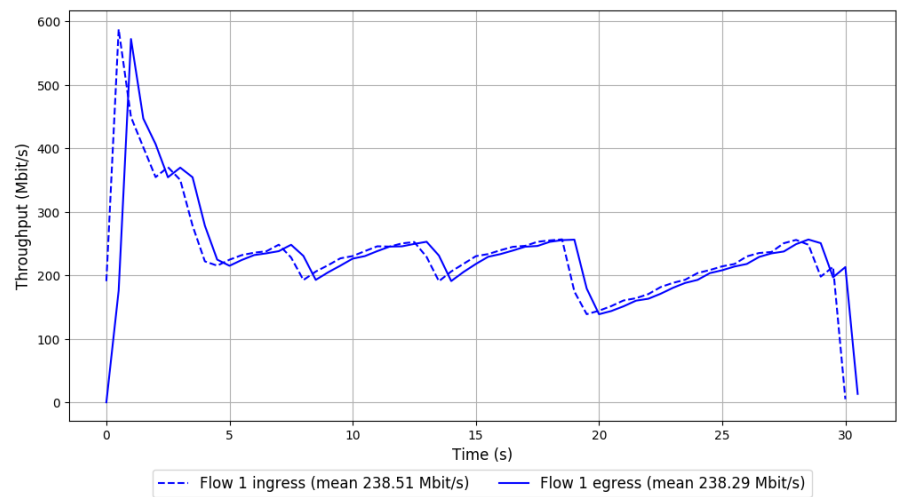
-- Flow 1:

Average throughput: 238.29 Mbit/s

95th percentile per-packet one-way delay: 22.721 ms

Loss rate: 0.10%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-06-05 04:34:04

End at: 2018-06-05 04:34:34

Local clock offset: 0.361 ms

Remote clock offset: 0.239 ms

Below is generated by plot.py at 2018-06-05 09:02:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 839.64 Mbit/s

95th percentile per-packet one-way delay: 96.686 ms

Loss rate: 3.32%

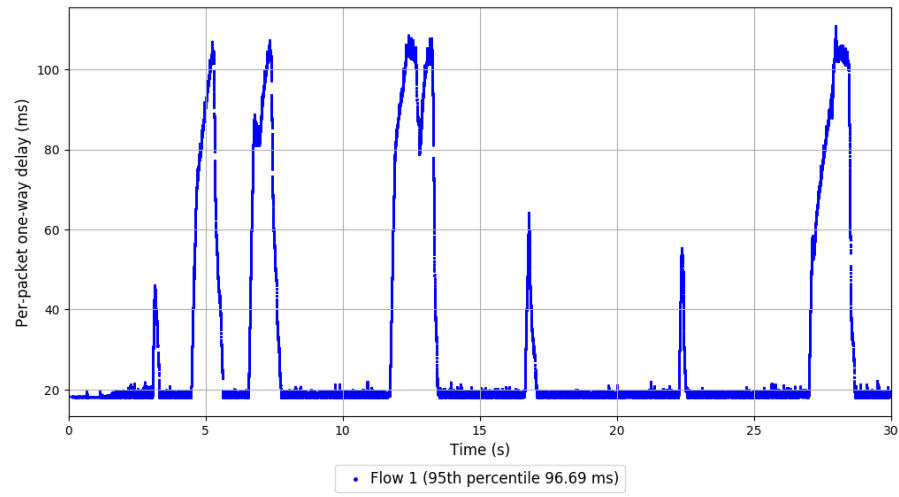
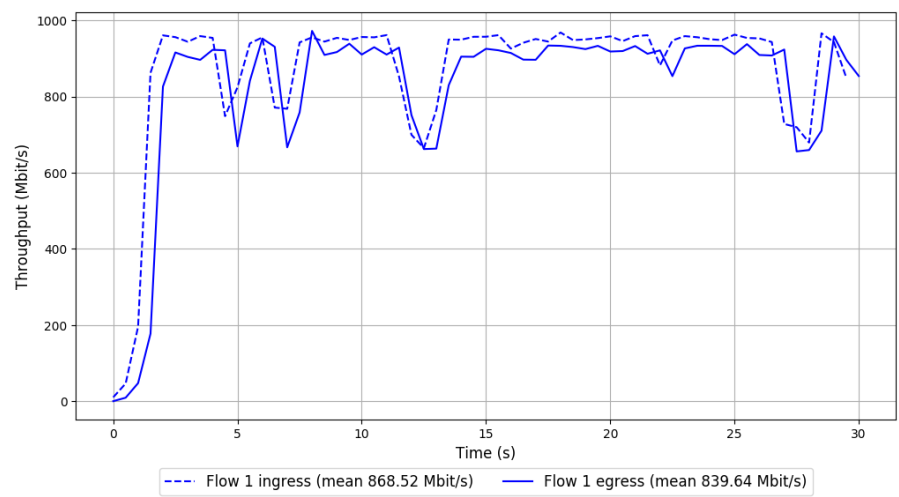
-- Flow 1:

Average throughput: 839.64 Mbit/s

95th percentile per-packet one-way delay: 96.686 ms

Loss rate: 3.32%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-06-05 04:57:51

End at: 2018-06-05 04:58:21

Local clock offset: 0.262 ms

Remote clock offset: 0.315 ms

Below is generated by plot.py at 2018-06-05 09:03:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 837.98 Mbit/s

95th percentile per-packet one-way delay: 103.190 ms

Loss rate: 3.32%

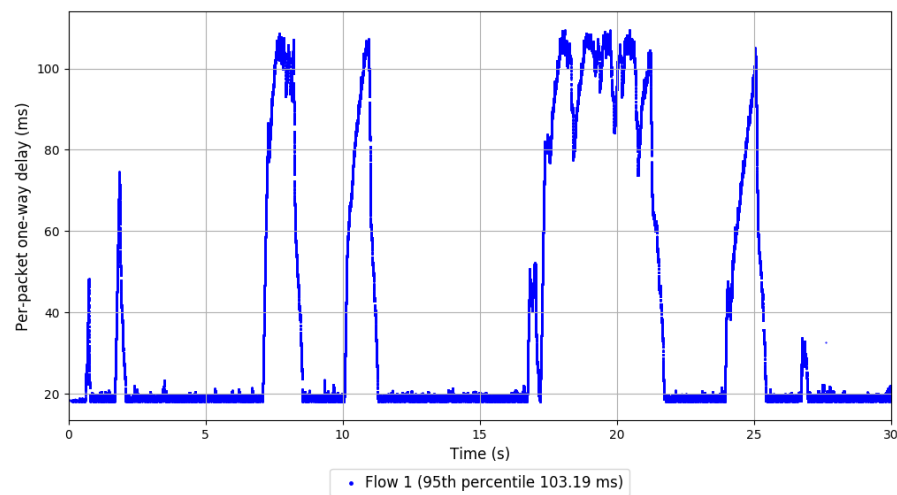
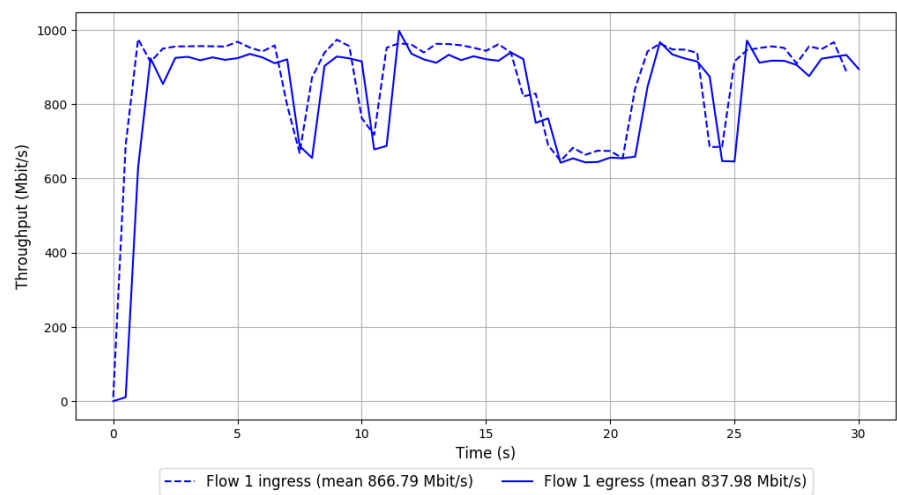
-- Flow 1:

Average throughput: 837.98 Mbit/s

95th percentile per-packet one-way delay: 103.190 ms

Loss rate: 3.32%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

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

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

Local clock offset: 0.108 ms

Remote clock offset: 0.245 ms

Below is generated by plot.py at 2018-06-05 09:03:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 841.24 Mbit/s

95th percentile per-packet one-way delay: 103.411 ms

Loss rate: 3.92%

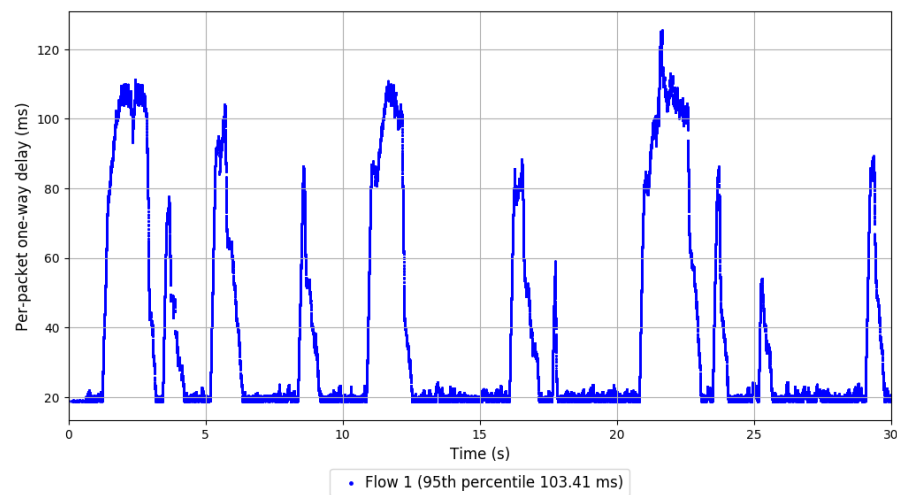
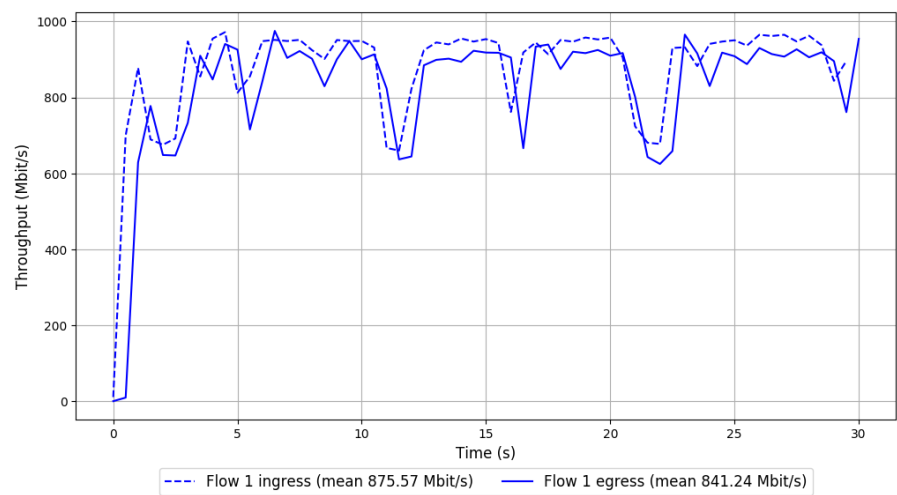
-- Flow 1:

Average throughput: 841.24 Mbit/s

95th percentile per-packet one-way delay: 103.411 ms

Loss rate: 3.92%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

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

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

Local clock offset: 0.202 ms

Remote clock offset: 0.077 ms

Below is generated by plot.py at 2018-06-05 09:03:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 782.05 Mbit/s

95th percentile per-packet one-way delay: 104.815 ms

Loss rate: 3.53%

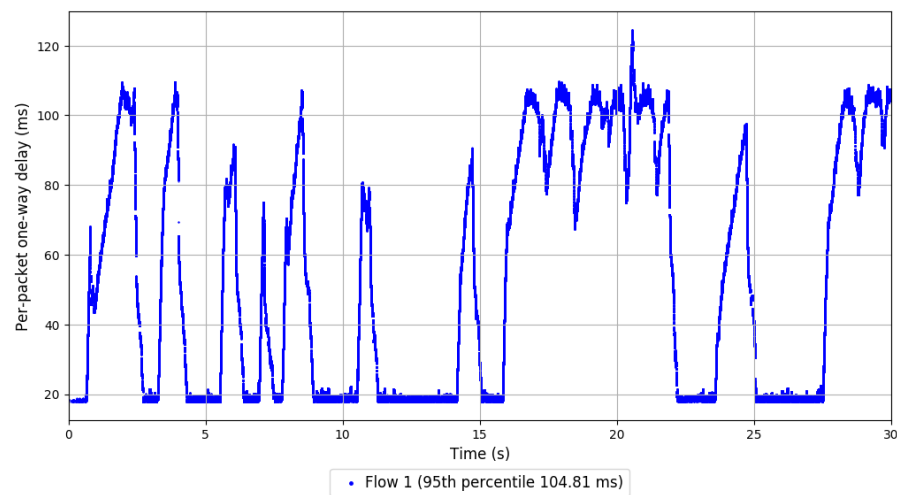
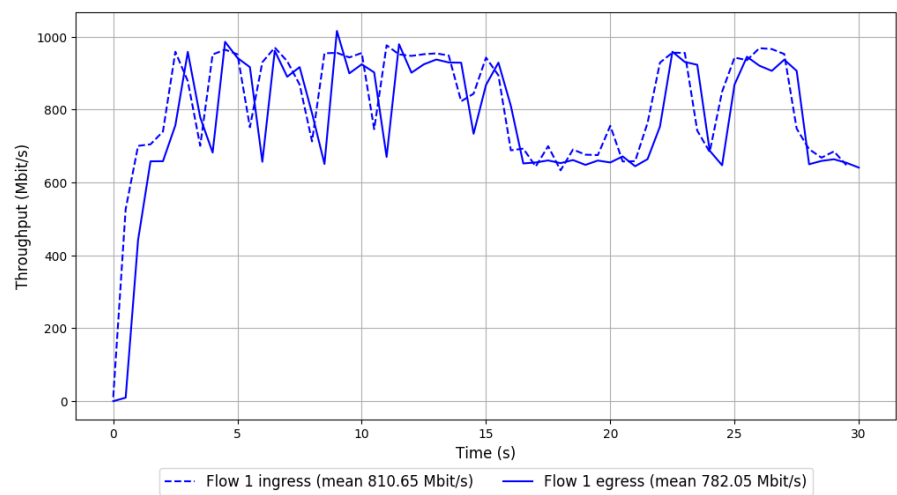
-- Flow 1:

Average throughput: 782.05 Mbit/s

95th percentile per-packet one-way delay: 104.815 ms

Loss rate: 3.53%

Run 4: Report of FillP — Data Link

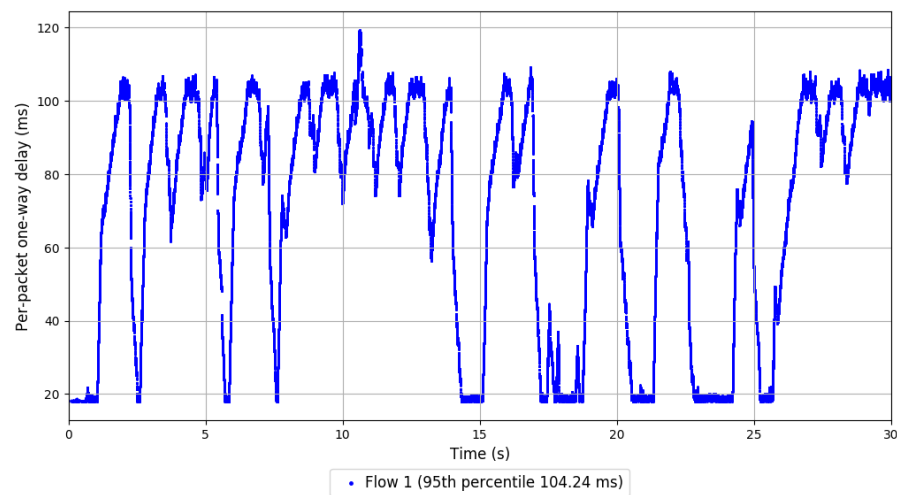
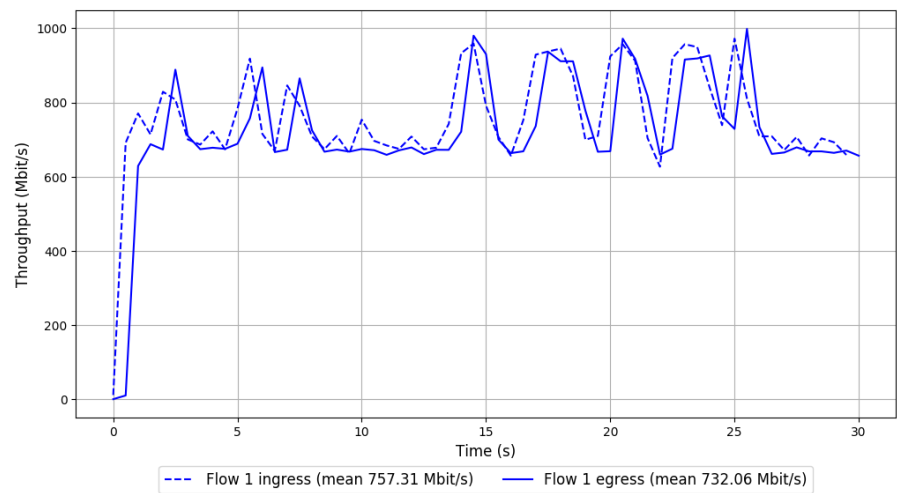


Run 5: Statistics of FillP

Start at: 2018-06-05 06:09:23
End at: 2018-06-05 06:09:53
Local clock offset: 0.265 ms
Remote clock offset: -0.464 ms

Below is generated by plot.py at 2018-06-05 09:03:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 732.06 Mbit/s
95th percentile per-packet one-way delay: 104.243 ms
Loss rate: 3.33%
-- Flow 1:
Average throughput: 732.06 Mbit/s
95th percentile per-packet one-way delay: 104.243 ms
Loss rate: 3.33%

Run 5: Report of FillP — Data Link

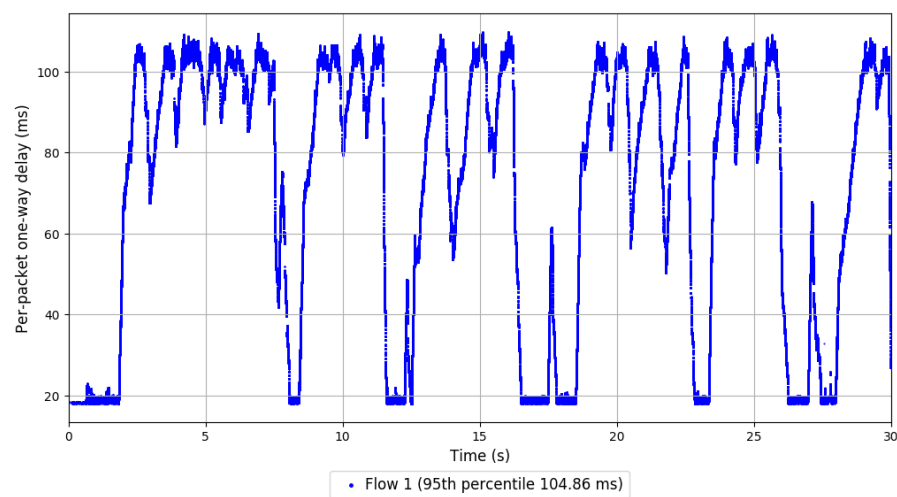
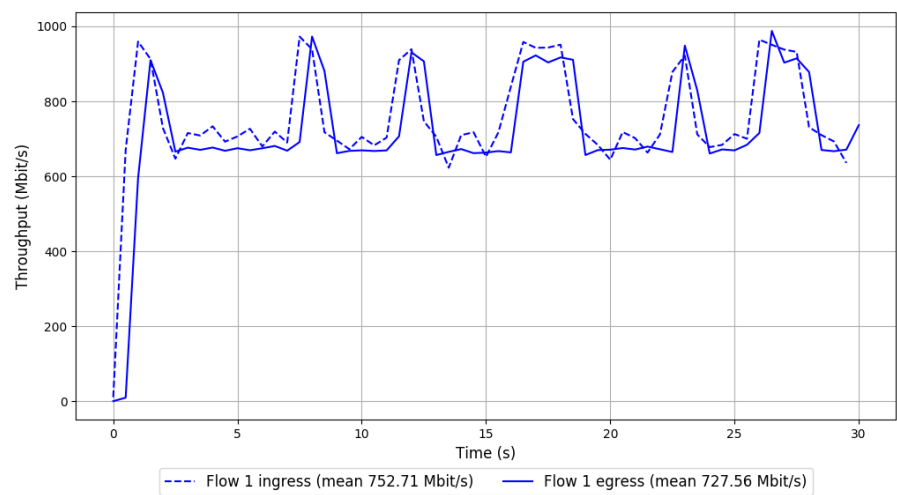


Run 6: Statistics of FillP

Start at: 2018-06-05 06:33:12
End at: 2018-06-05 06:33:42
Local clock offset: 0.319 ms
Remote clock offset: -0.988 ms

Below is generated by plot.py at 2018-06-05 09:03:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 727.56 Mbit/s
95th percentile per-packet one-way delay: 104.860 ms
Loss rate: 3.34%
-- Flow 1:
Average throughput: 727.56 Mbit/s
95th percentile per-packet one-way delay: 104.860 ms
Loss rate: 3.34%

Run 6: Report of FillP — Data Link

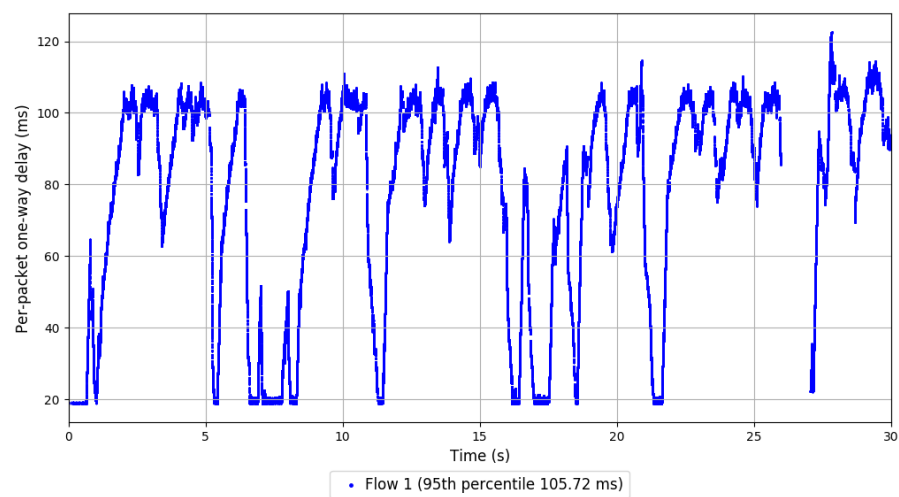
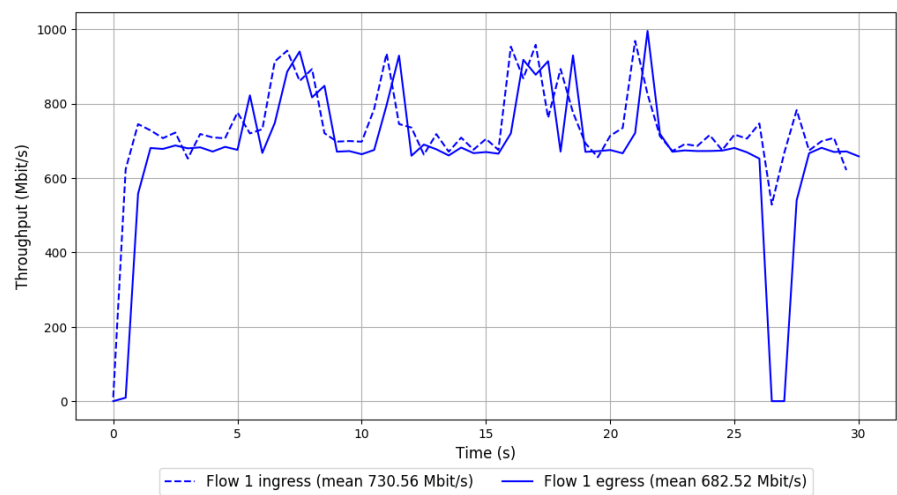


Run 7: Statistics of FillP

Start at: 2018-06-05 06:56:59
End at: 2018-06-05 06:57:29
Local clock offset: 0.382 ms
Remote clock offset: -1.272 ms

Below is generated by plot.py at 2018-06-05 09:03:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 682.52 Mbit/s
95th percentile per-packet one-way delay: 105.722 ms
Loss rate: 6.58%
-- Flow 1:
Average throughput: 682.52 Mbit/s
95th percentile per-packet one-way delay: 105.722 ms
Loss rate: 6.58%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-06-05 07:20:45

End at: 2018-06-05 07:21:15

Local clock offset: 0.268 ms

Remote clock offset: 0.089 ms

Below is generated by plot.py at 2018-06-05 09:03:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 692.79 Mbit/s

95th percentile per-packet one-way delay: 104.585 ms

Loss rate: 3.31%

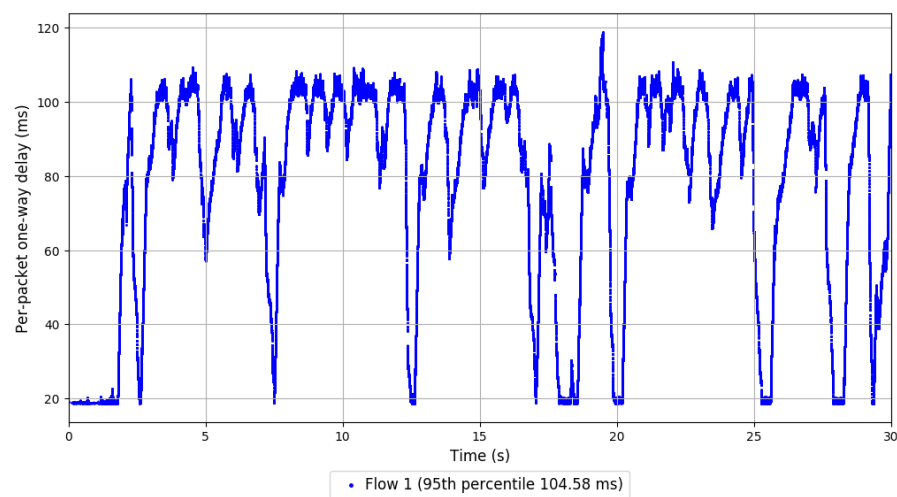
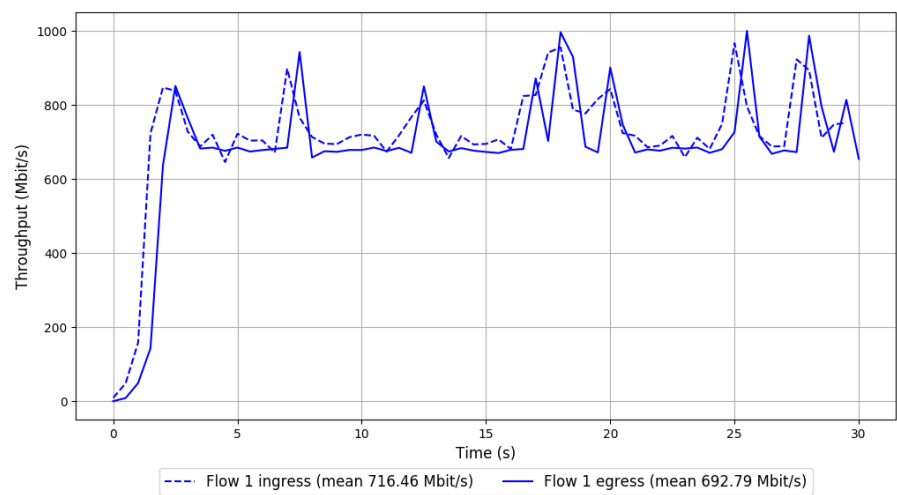
-- Flow 1:

Average throughput: 692.79 Mbit/s

95th percentile per-packet one-way delay: 104.585 ms

Loss rate: 3.31%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-06-05 07:44:36

End at: 2018-06-05 07:45:06

Local clock offset: -0.004 ms

Remote clock offset: 1.094 ms

Below is generated by plot.py at 2018-06-05 09:12:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 713.90 Mbit/s

95th percentile per-packet one-way delay: 104.272 ms

Loss rate: 3.48%

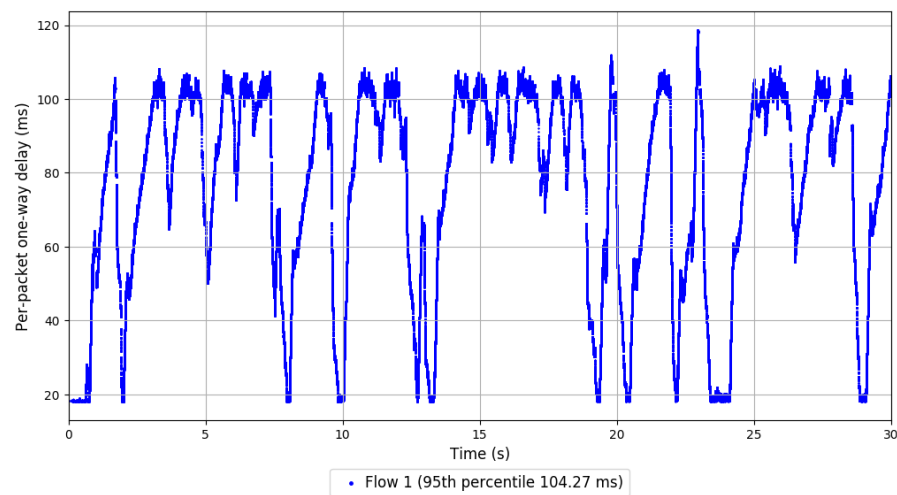
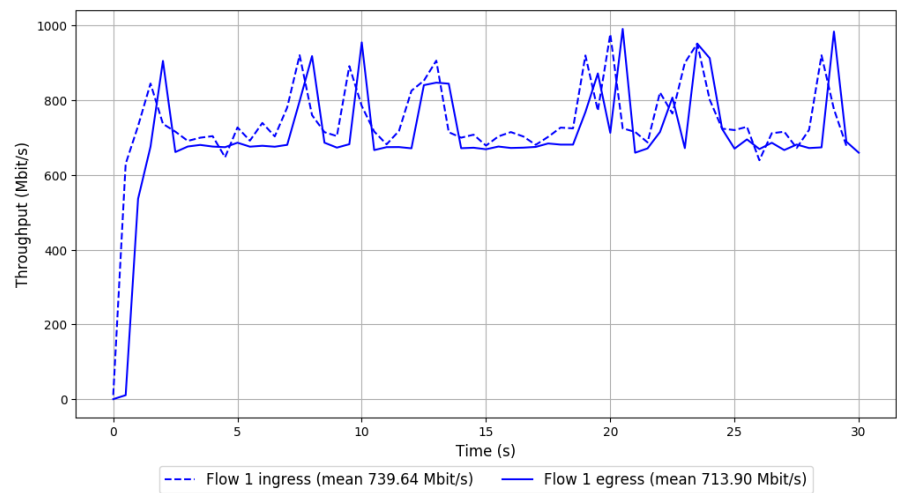
-- Flow 1:

Average throughput: 713.90 Mbit/s

95th percentile per-packet one-way delay: 104.272 ms

Loss rate: 3.48%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

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

End at: 2018-06-05 08:08:55

Local clock offset: 0.039 ms

Remote clock offset: 0.036 ms

Below is generated by plot.py at 2018-06-05 09:13:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 712.61 Mbit/s

95th percentile per-packet one-way delay: 108.610 ms

Loss rate: 7.79%

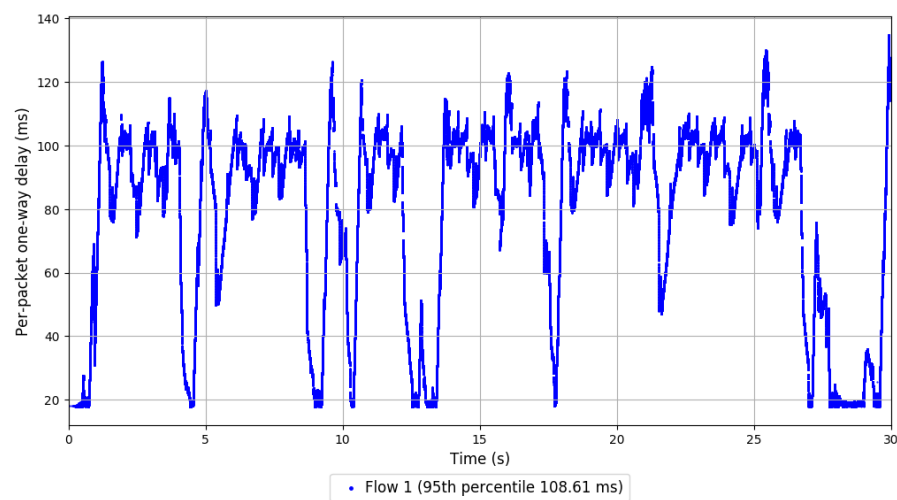
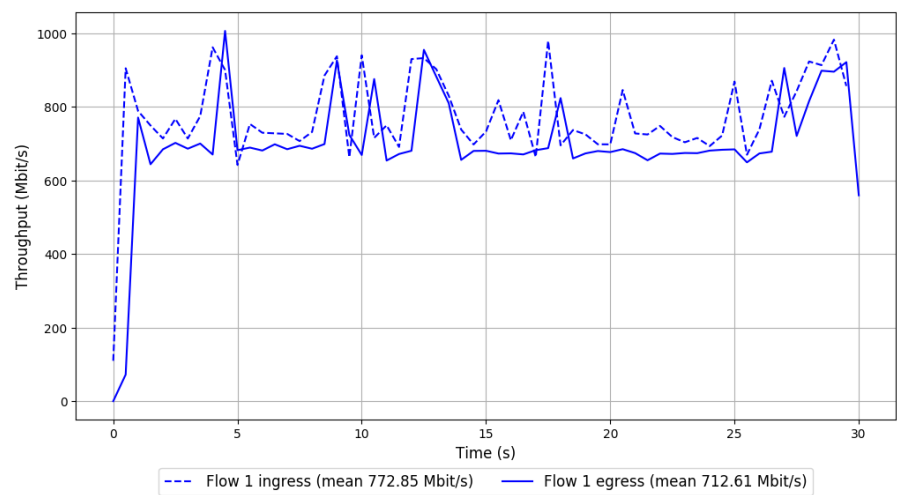
-- Flow 1:

Average throughput: 712.61 Mbit/s

95th percentile per-packet one-way delay: 108.610 ms

Loss rate: 7.79%

Run 10: Report of FillP — Data Link

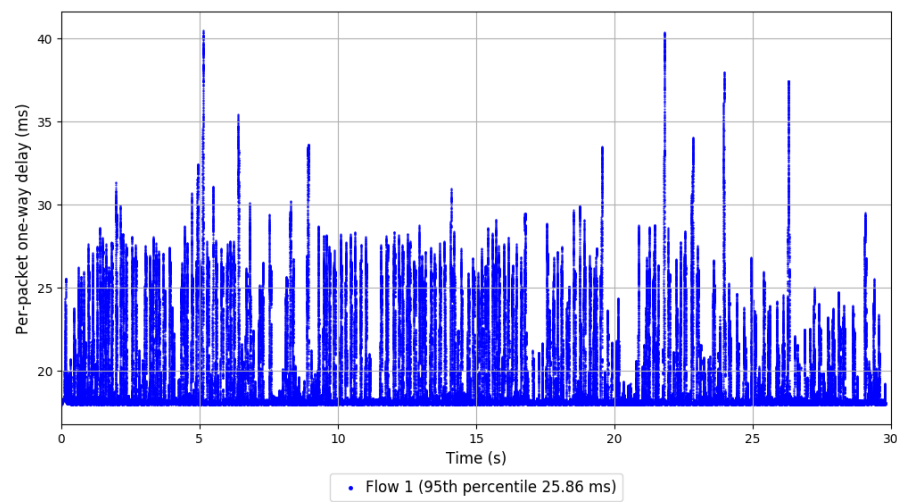
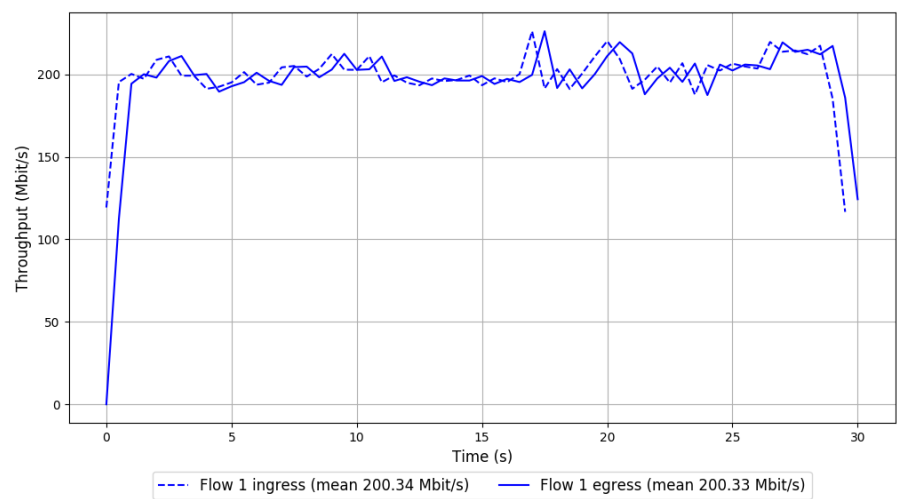


```
Run 1: Statistics of Indigo

Start at: 2018-06-05 04:40:34
End at: 2018-06-05 04:41:04
Local clock offset: 0.47 ms
Remote clock offset: 0.306 ms

# Below is generated by plot.py at 2018-06-05 09:13:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 200.33 Mbit/s
95th percentile per-packet one-way delay: 25.859 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 200.33 Mbit/s
95th percentile per-packet one-way delay: 25.859 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-06-05 05:04:19

End at: 2018-06-05 05:04:49

Local clock offset: 0.276 ms

Remote clock offset: 0.222 ms

Below is generated by plot.py at 2018-06-05 09:13:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.04 Mbit/s

95th percentile per-packet one-way delay: 25.499 ms

Loss rate: 0.00%

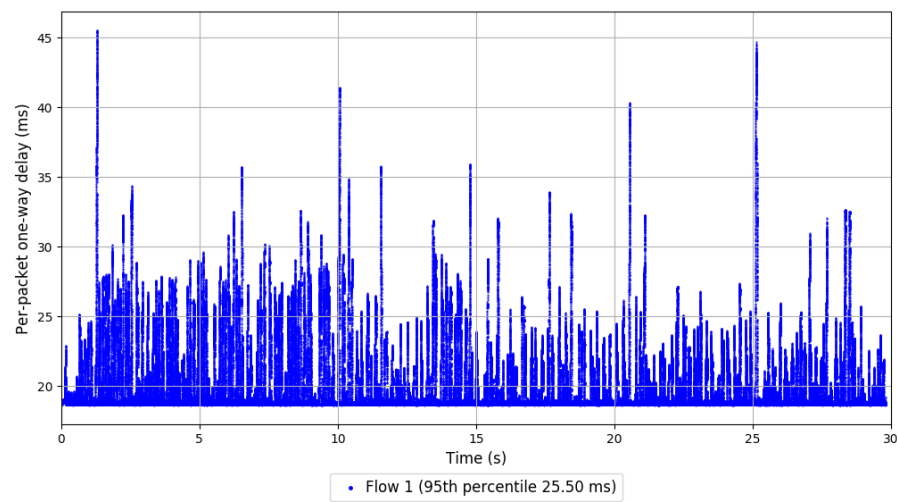
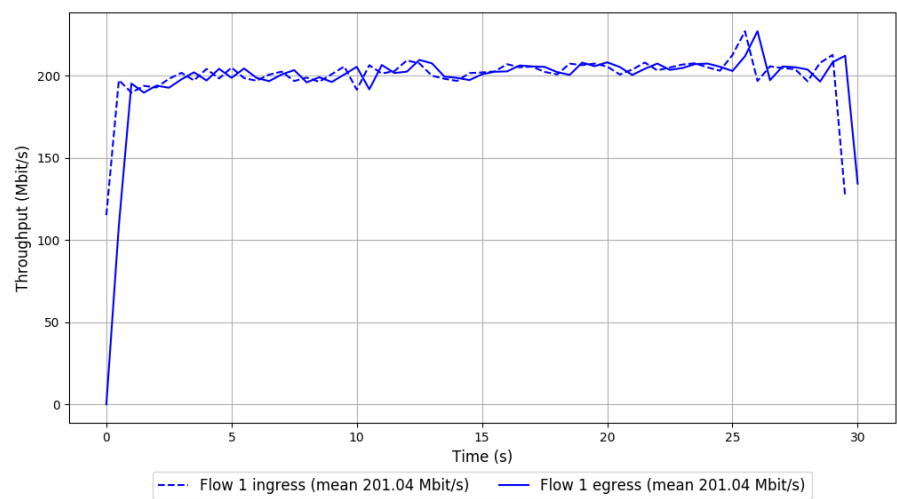
-- Flow 1:

Average throughput: 201.04 Mbit/s

95th percentile per-packet one-way delay: 25.499 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

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

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

Local clock offset: 0.22 ms

Remote clock offset: 0.235 ms

Below is generated by plot.py at 2018-06-05 09:13:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.52 Mbit/s

95th percentile per-packet one-way delay: 23.713 ms

Loss rate: 0.01%

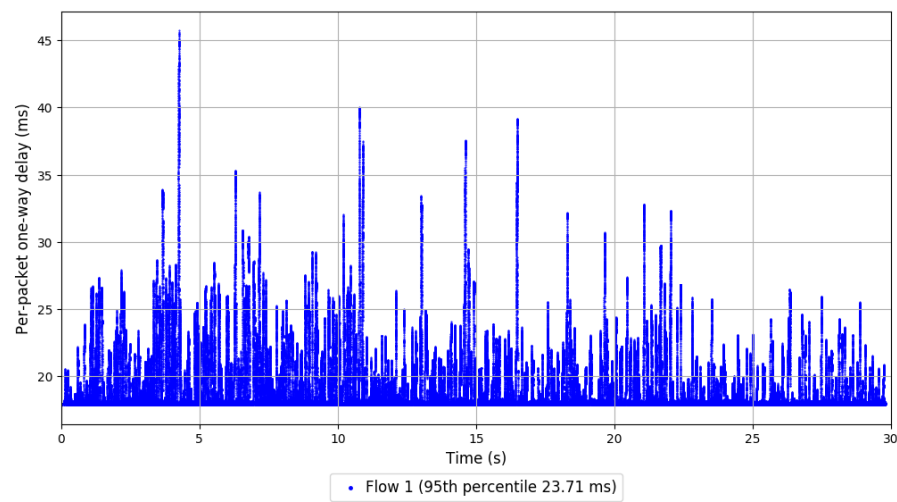
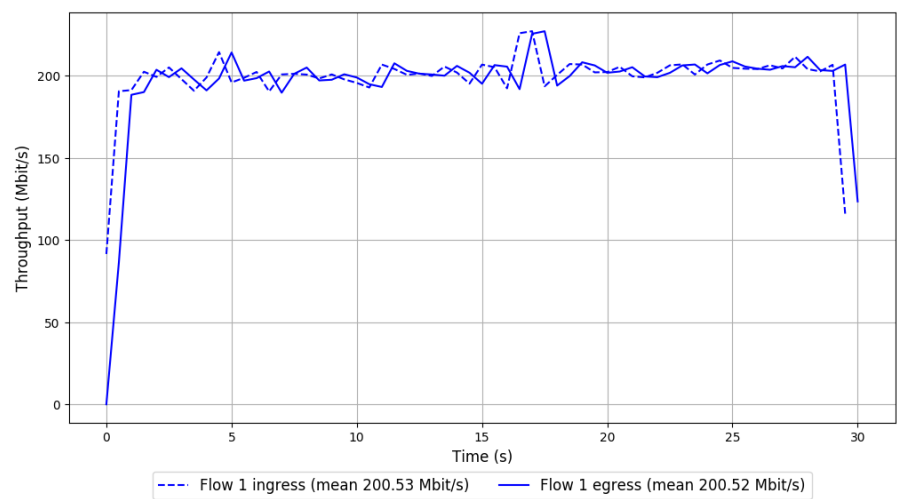
-- Flow 1:

Average throughput: 200.52 Mbit/s

95th percentile per-packet one-way delay: 23.713 ms

Loss rate: 0.01%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-06-05 05:51:58

End at: 2018-06-05 05:52:28

Local clock offset: 0.253 ms

Remote clock offset: 0.155 ms

Below is generated by plot.py at 2018-06-05 09:13:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.01 Mbit/s

95th percentile per-packet one-way delay: 22.694 ms

Loss rate: 0.00%

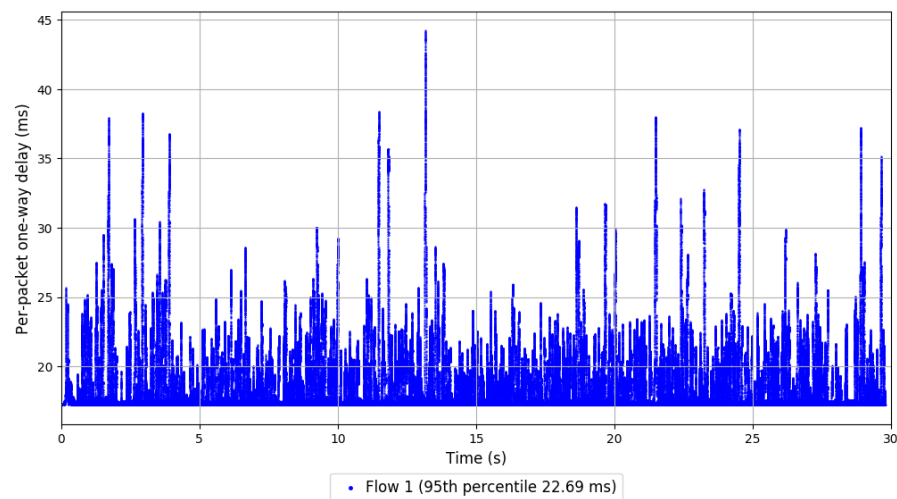
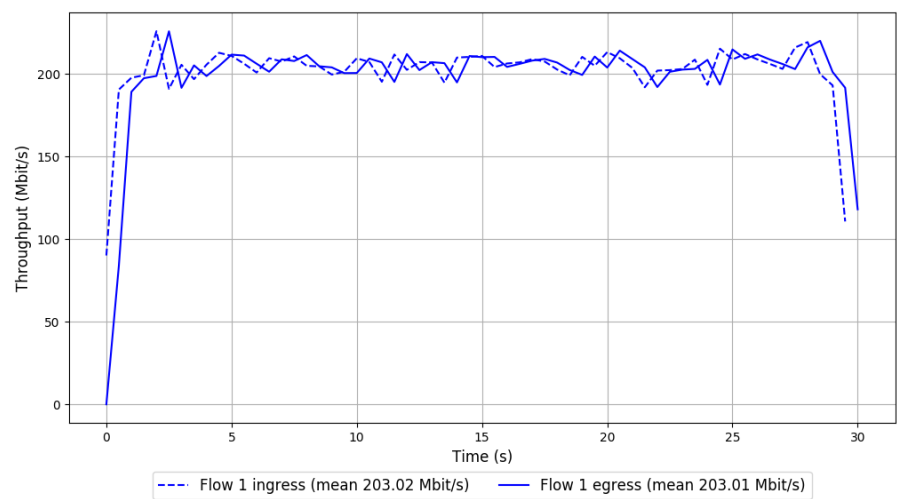
-- Flow 1:

Average throughput: 203.01 Mbit/s

95th percentile per-packet one-way delay: 22.694 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link

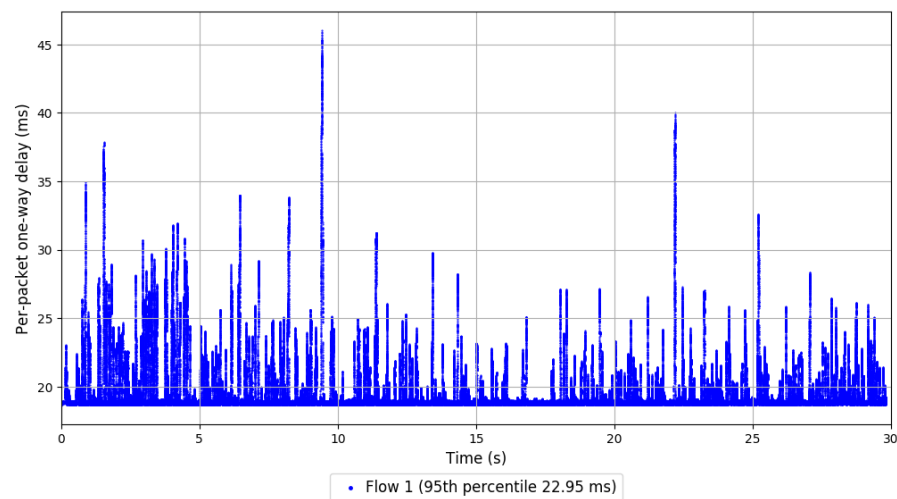
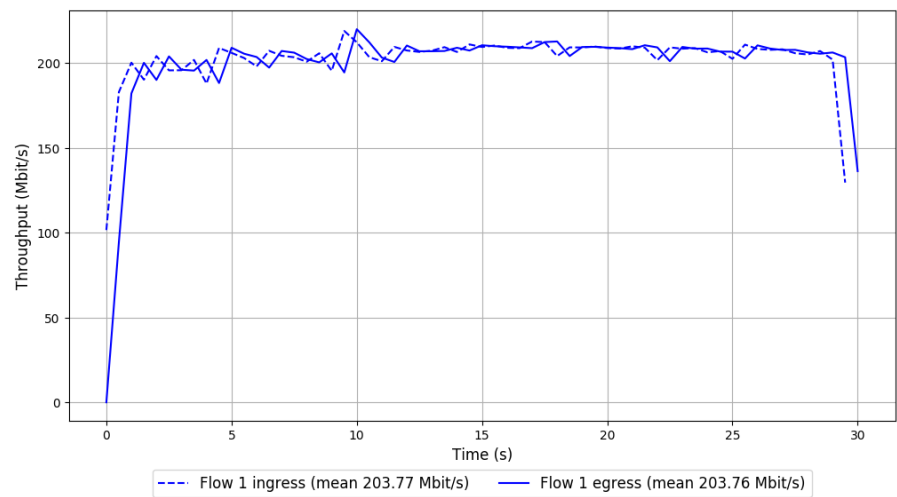


Run 5: Statistics of Indigo

Start at: 2018-06-05 06:15:55
End at: 2018-06-05 06:16:25
Local clock offset: 0.294 ms
Remote clock offset: -0.681 ms

Below is generated by plot.py at 2018-06-05 09:13:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 203.76 Mbit/s
95th percentile per-packet one-way delay: 22.955 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 203.76 Mbit/s
95th percentile per-packet one-way delay: 22.955 ms
Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-06-05 06:39:47

End at: 2018-06-05 06:40:17

Local clock offset: 0.409 ms

Remote clock offset: -1.03 ms

Below is generated by plot.py at 2018-06-05 09:13:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.64 Mbit/s

95th percentile per-packet one-way delay: 23.802 ms

Loss rate: 0.00%

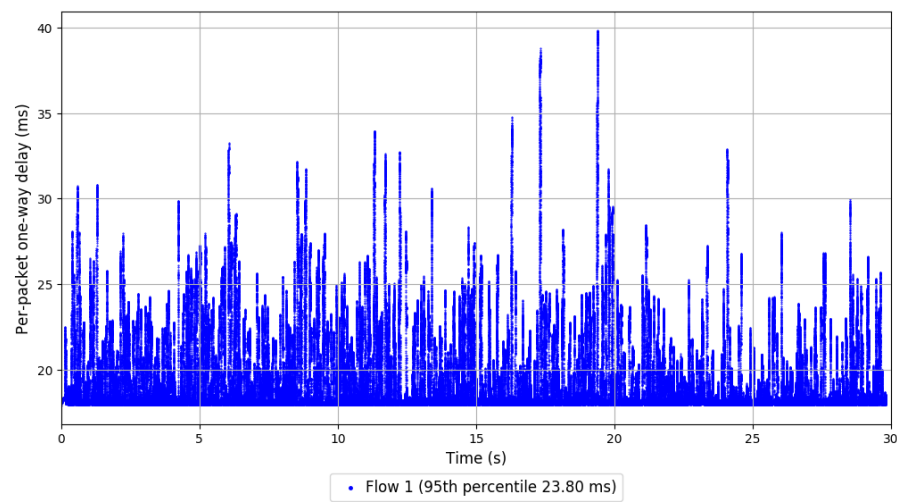
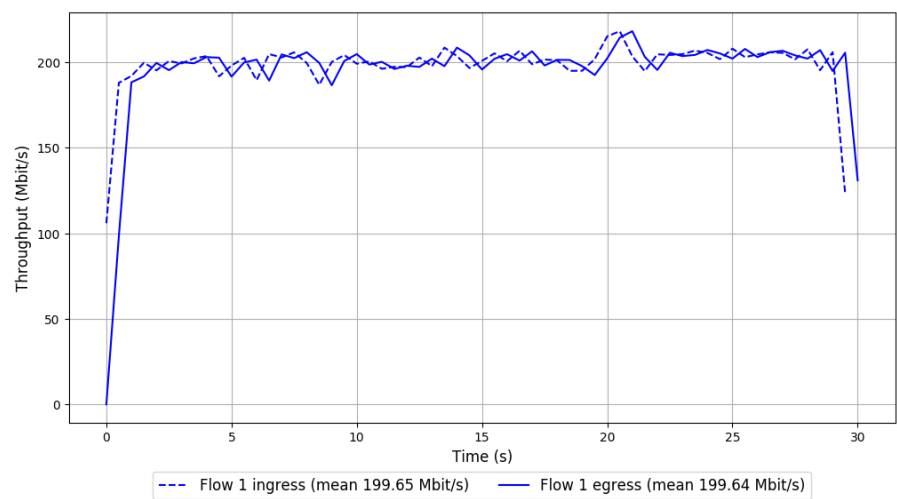
-- Flow 1:

Average throughput: 199.64 Mbit/s

95th percentile per-packet one-way delay: 23.802 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link

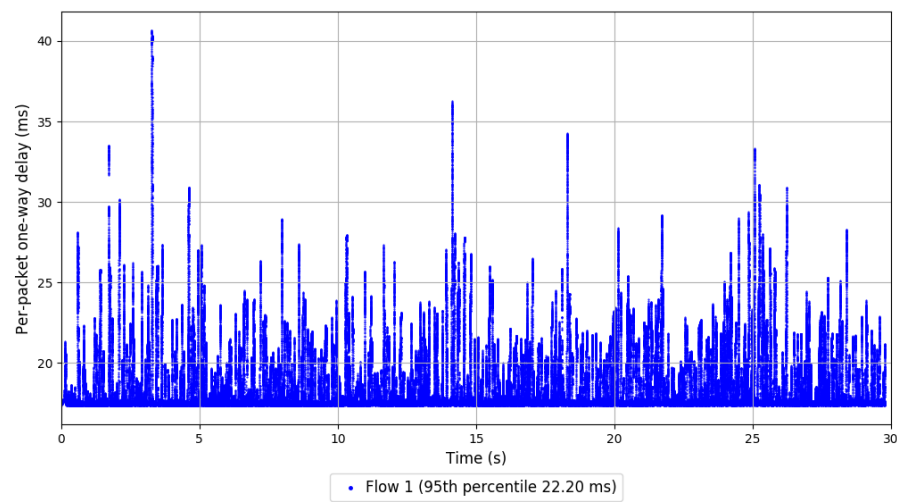
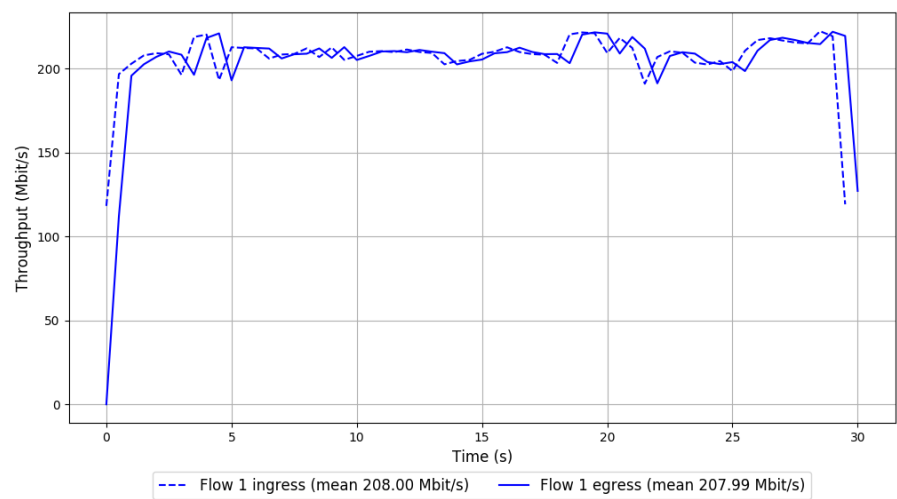


Run 7: Statistics of Indigo

Start at: 2018-06-05 07:03:28
End at: 2018-06-05 07:03:58
Local clock offset: 0.326 ms
Remote clock offset: -1.322 ms

Below is generated by plot.py at 2018-06-05 09:13:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 207.99 Mbit/s
95th percentile per-packet one-way delay: 22.201 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 207.99 Mbit/s
95th percentile per-packet one-way delay: 22.201 ms
Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-06-05 07:27:13

End at: 2018-06-05 07:27:43

Local clock offset: 0.253 ms

Remote clock offset: 0.489 ms

Below is generated by plot.py at 2018-06-05 09:13:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.87 Mbit/s

95th percentile per-packet one-way delay: 22.123 ms

Loss rate: 0.00%

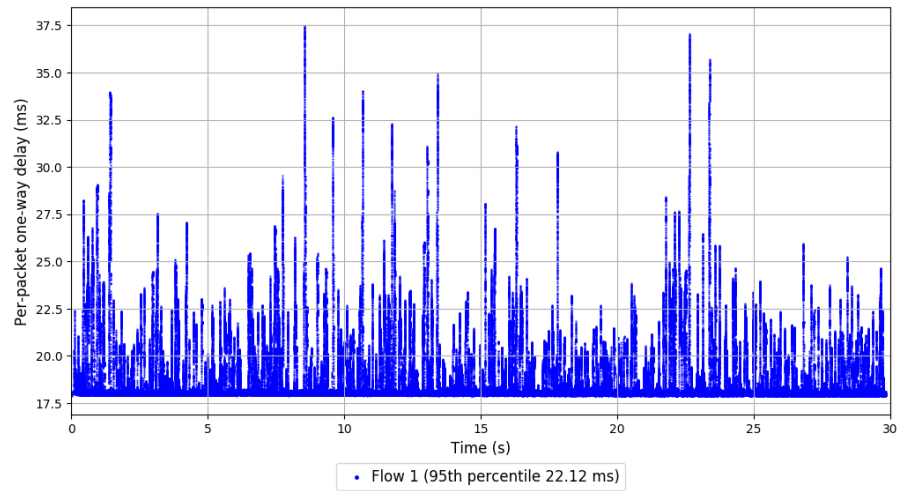
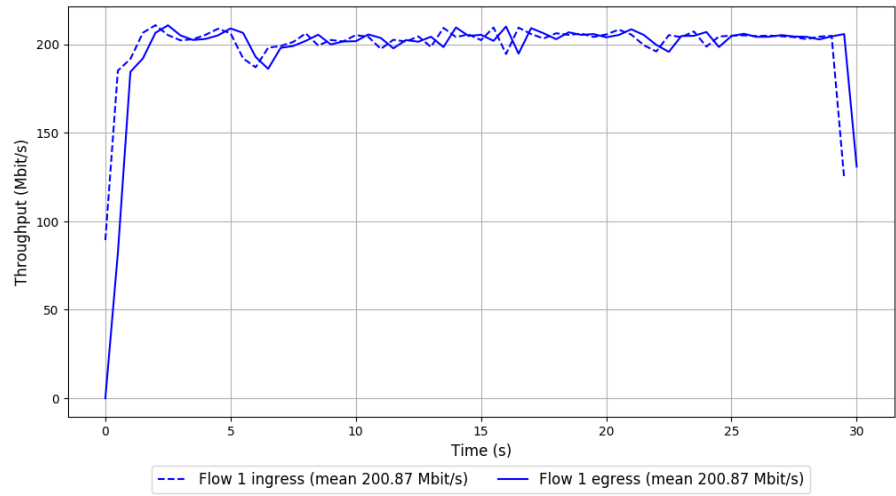
-- Flow 1:

Average throughput: 200.87 Mbit/s

95th percentile per-packet one-way delay: 22.123 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-06-05 07:51:04

End at: 2018-06-05 07:51:34

Local clock offset: 0.058 ms

Remote clock offset: 0.473 ms

Below is generated by plot.py at 2018-06-05 09:13:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.61 Mbit/s

95th percentile per-packet one-way delay: 21.929 ms

Loss rate: 0.01%

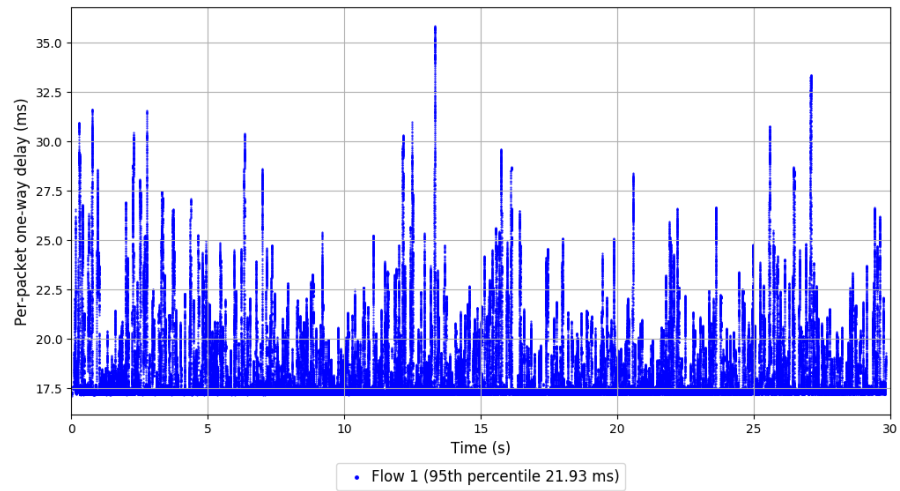
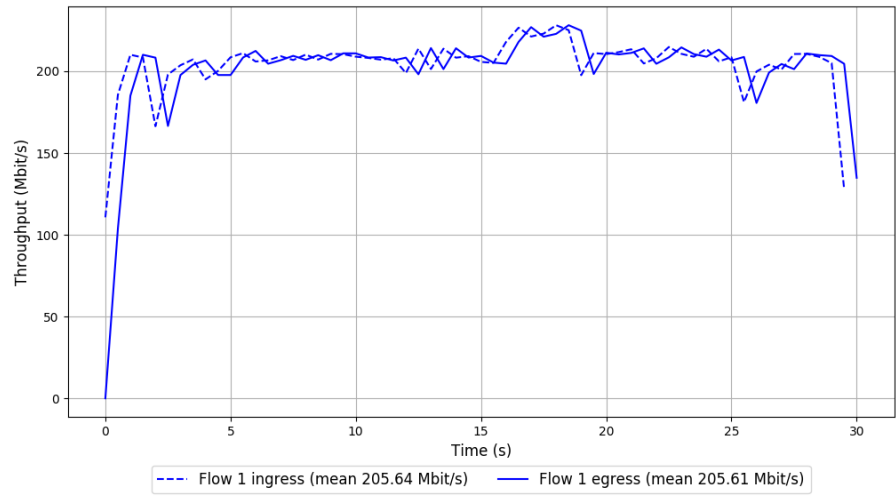
-- Flow 1:

Average throughput: 205.61 Mbit/s

95th percentile per-packet one-way delay: 21.929 ms

Loss rate: 0.01%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-06-05 08:14:55

End at: 2018-06-05 08:15:25

Local clock offset: 0.025 ms

Remote clock offset: 0.075 ms

Below is generated by plot.py at 2018-06-05 09:13:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.05 Mbit/s

95th percentile per-packet one-way delay: 22.767 ms

Loss rate: 0.00%

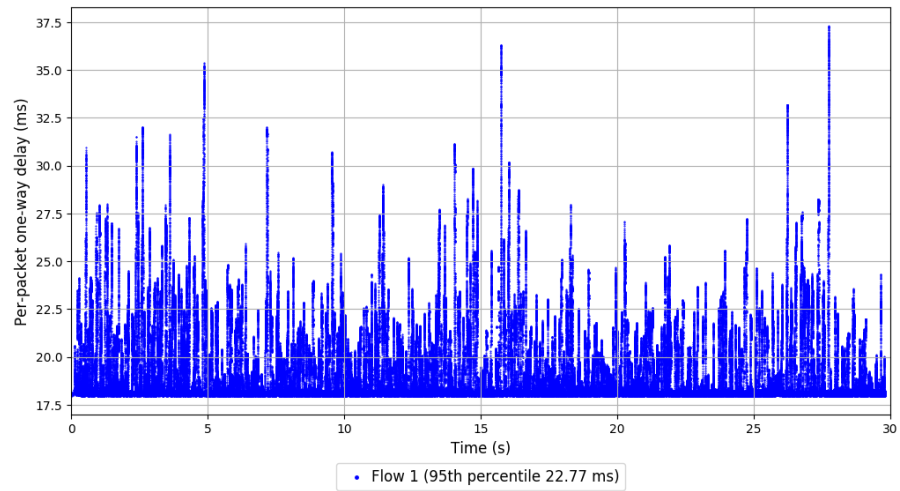
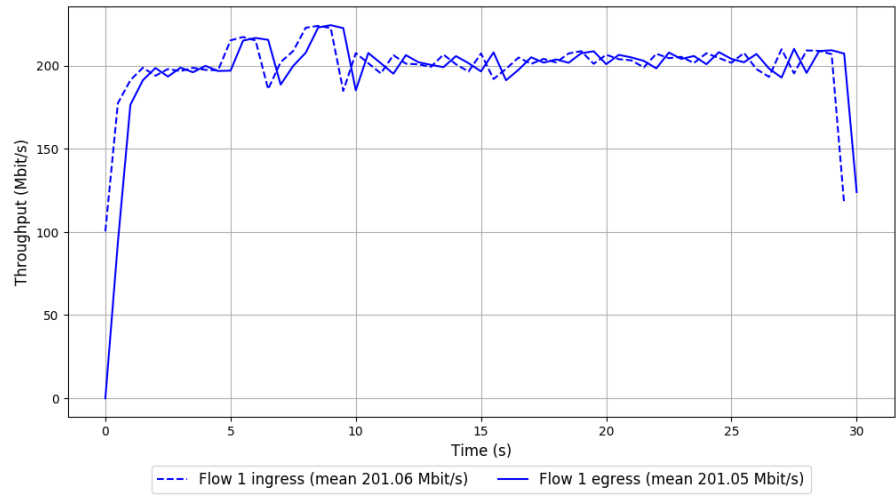
-- Flow 1:

Average throughput: 201.05 Mbit/s

95th percentile per-packet one-way delay: 22.767 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

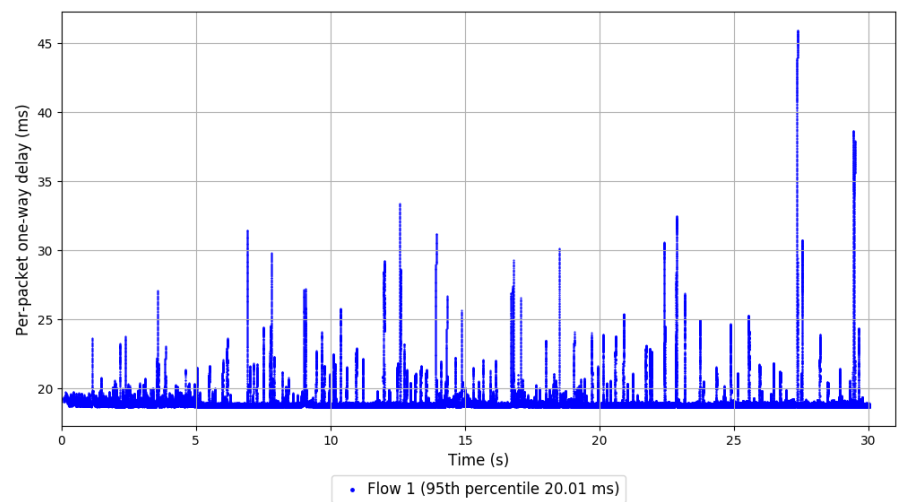
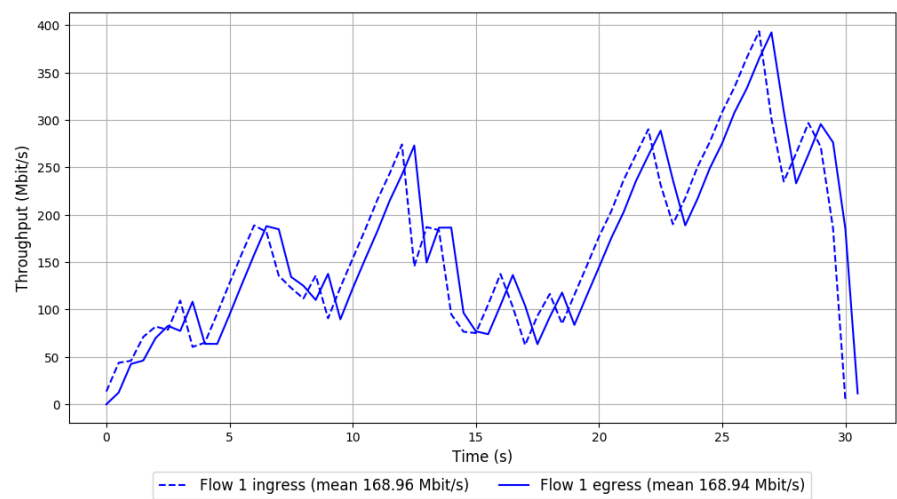


```
Run 1: Statistics of LEDBAT

Start at: 2018-06-05 04:18:17
End at: 2018-06-05 04:18:47
Local clock offset: 0.434 ms
Remote clock offset: 0.519 ms

# Below is generated by plot.py at 2018-06-05 09:13:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 168.94 Mbit/s
95th percentile per-packet one-way delay: 20.007 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 168.94 Mbit/s
95th percentile per-packet one-way delay: 20.007 ms
Loss rate: 0.01%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-06-05 04:42:01

End at: 2018-06-05 04:42:31

Local clock offset: 0.482 ms

Remote clock offset: 0.314 ms

Below is generated by plot.py at 2018-06-05 09:13:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 307.78 Mbit/s

95th percentile per-packet one-way delay: 18.495 ms

Loss rate: 0.01%

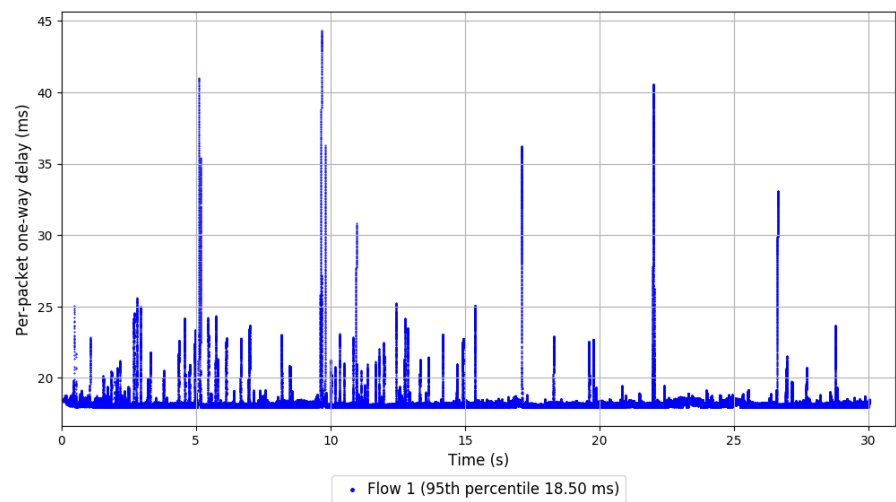
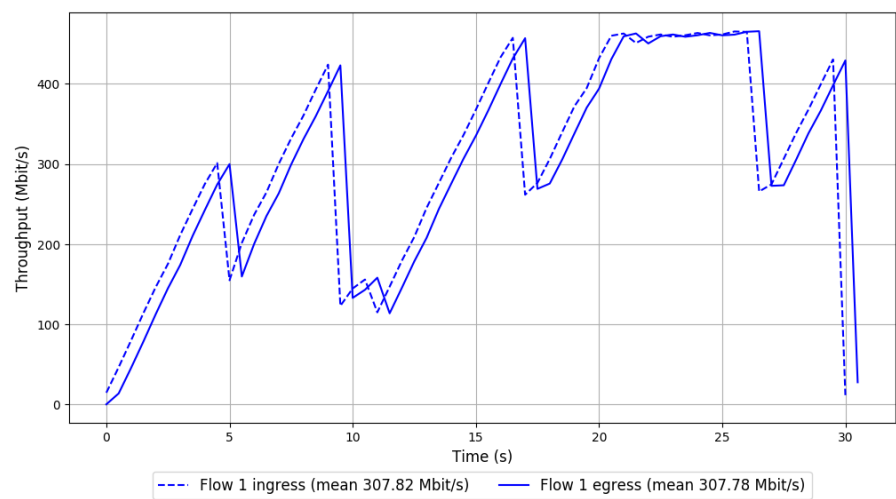
-- Flow 1:

Average throughput: 307.78 Mbit/s

95th percentile per-packet one-way delay: 18.495 ms

Loss rate: 0.01%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

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

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

Local clock offset: 0.154 ms

Remote clock offset: 0.189 ms

Below is generated by plot.py at 2018-06-05 09:13:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.98 Mbit/s

95th percentile per-packet one-way delay: 18.763 ms

Loss rate: 0.01%

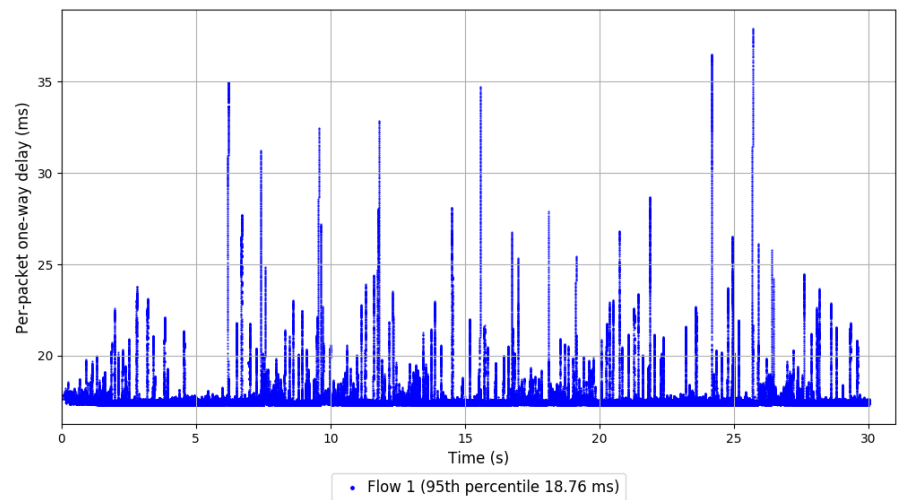
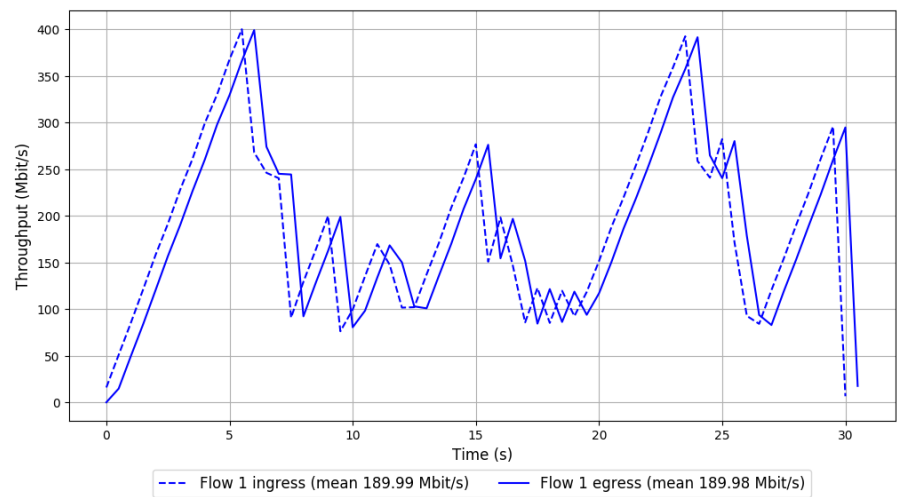
-- Flow 1:

Average throughput: 189.98 Mbit/s

95th percentile per-packet one-way delay: 18.763 ms

Loss rate: 0.01%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-06-05 05:29:32

End at: 2018-06-05 05:30:02

Local clock offset: 0.14 ms

Remote clock offset: 0.195 ms

Below is generated by plot.py at 2018-06-05 09:13:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 330.86 Mbit/s

95th percentile per-packet one-way delay: 19.213 ms

Loss rate: 0.00%

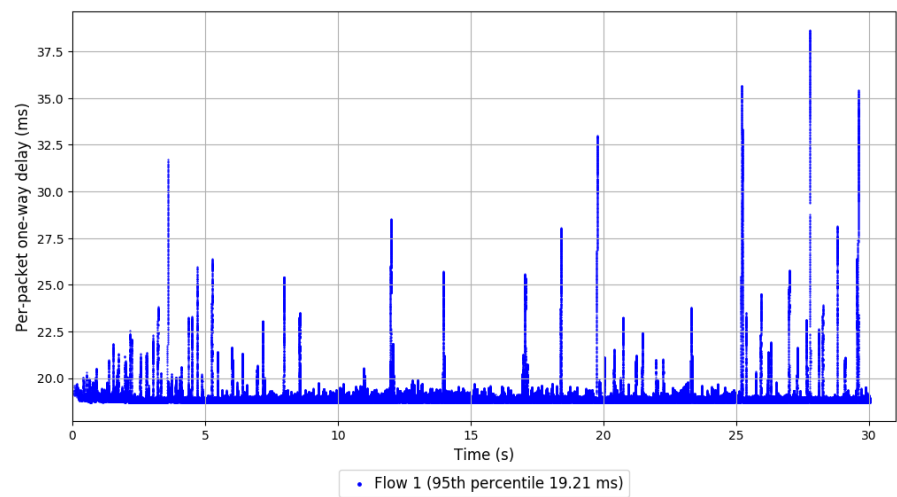
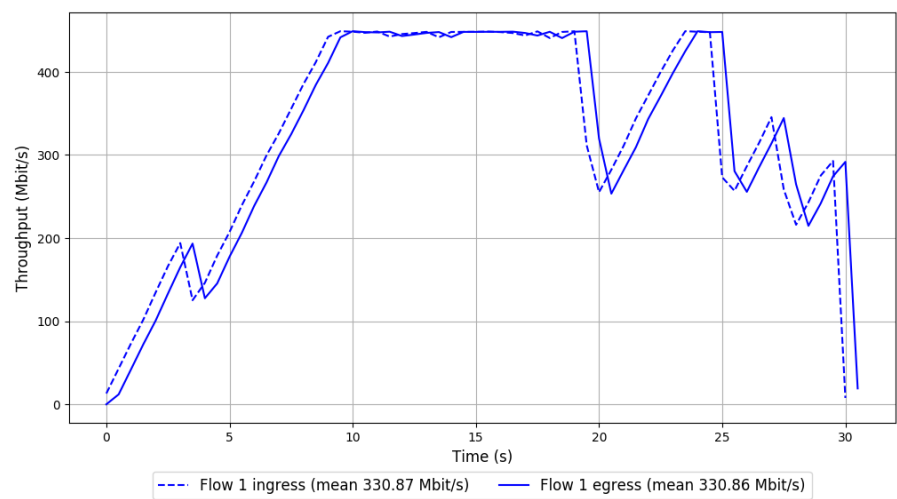
-- Flow 1:

Average throughput: 330.86 Mbit/s

95th percentile per-packet one-way delay: 19.213 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-06-05 05:53:26

End at: 2018-06-05 05:53:57

Local clock offset: 0.26 ms

Remote clock offset: 0.111 ms

Below is generated by plot.py at 2018-06-05 09:13:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 319.56 Mbit/s

95th percentile per-packet one-way delay: 18.456 ms

Loss rate: 0.00%

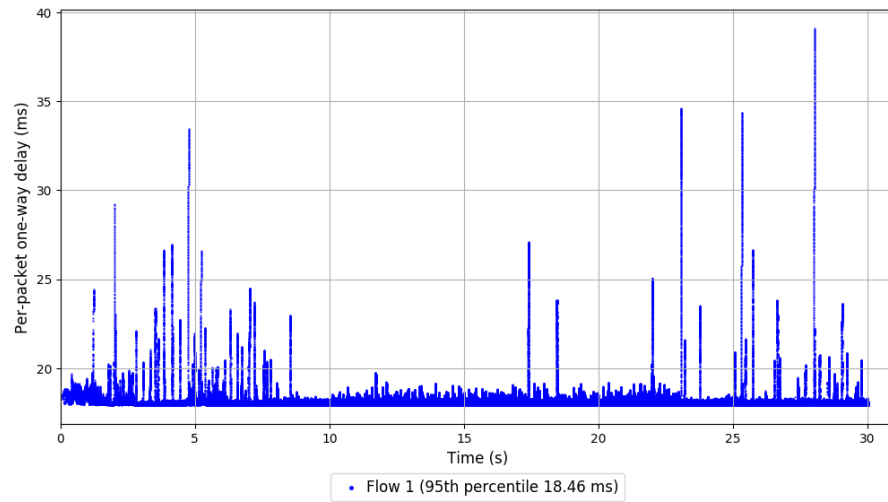
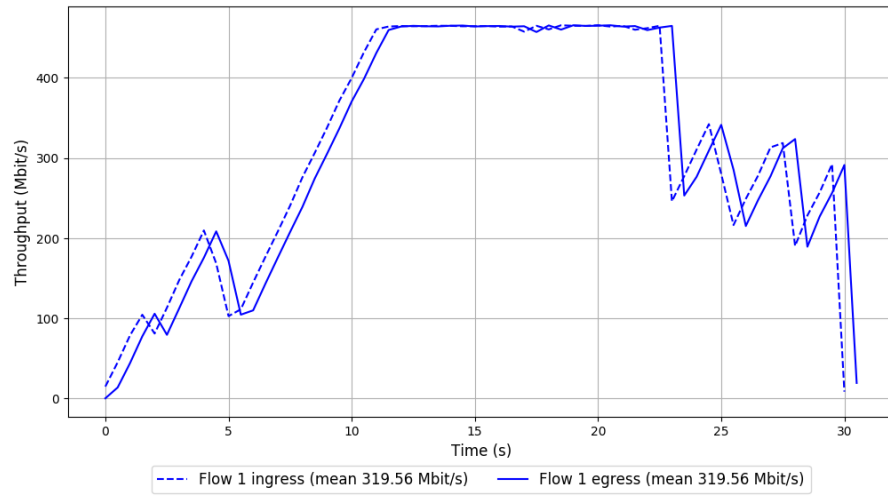
-- Flow 1:

Average throughput: 319.56 Mbit/s

95th percentile per-packet one-way delay: 18.456 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

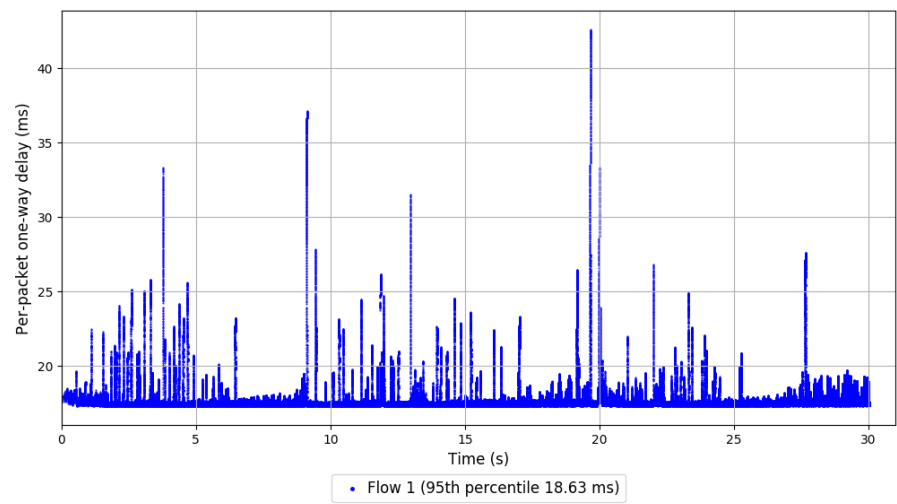
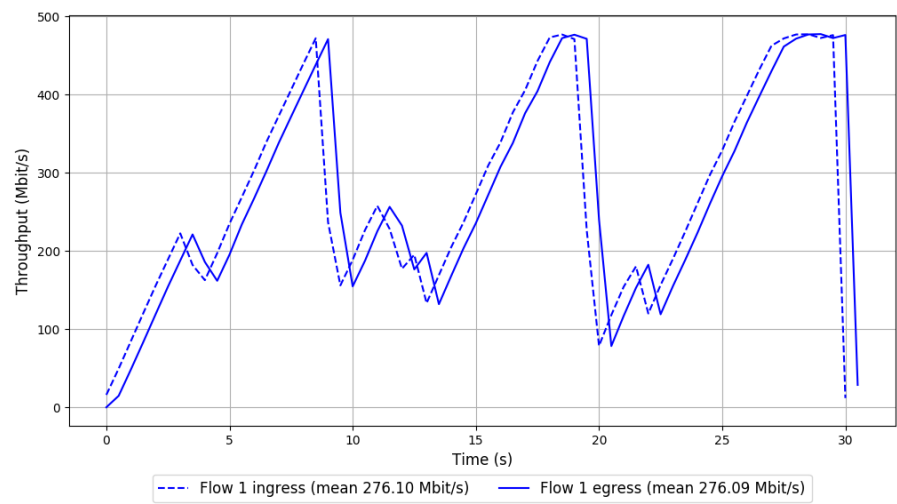


Run 6: Statistics of LEDBAT

Start at: 2018-06-05 06:17:23
End at: 2018-06-05 06:17:53
Local clock offset: 0.297 ms
Remote clock offset: -0.651 ms

Below is generated by plot.py at 2018-06-05 09:13:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 276.09 Mbit/s
95th percentile per-packet one-way delay: 18.634 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 276.09 Mbit/s
95th percentile per-packet one-way delay: 18.634 ms
Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link

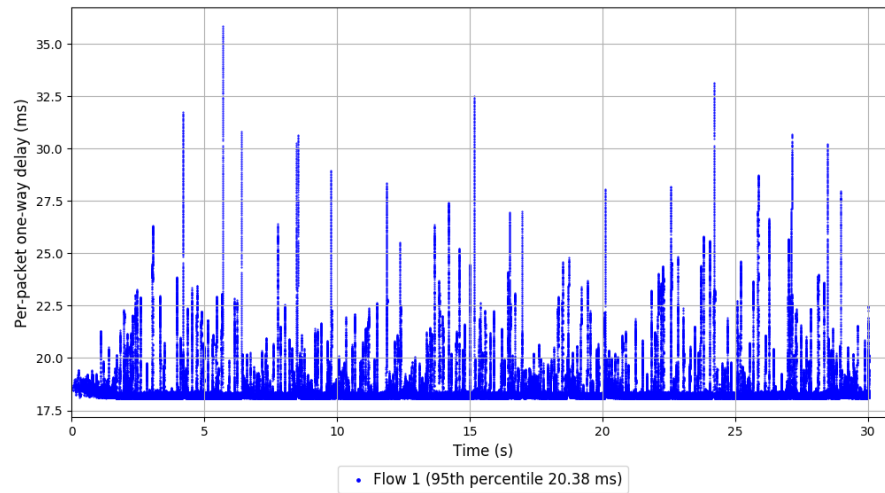
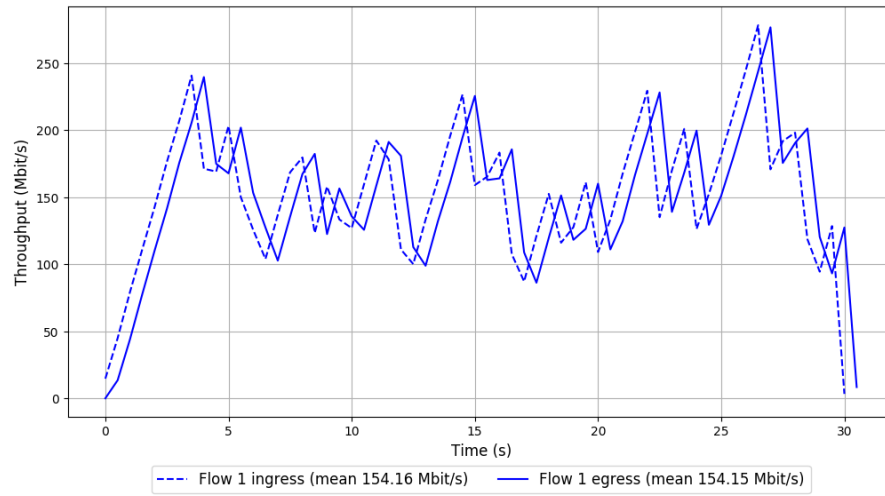


Run 7: Statistics of LEDBAT

Start at: 2018-06-05 06:41:14
End at: 2018-06-05 06:41:44
Local clock offset: 0.307 ms
Remote clock offset: -1.062 ms

Below is generated by plot.py at 2018-06-05 09:13:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 154.15 Mbit/s
95th percentile per-packet one-way delay: 20.384 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 154.15 Mbit/s
95th percentile per-packet one-way delay: 20.384 ms
Loss rate: 0.01%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-06-05 07:04:56

End at: 2018-06-05 07:05:26

Local clock offset: 0.414 ms

Remote clock offset: -1.47 ms

Below is generated by plot.py at 2018-06-05 09:13:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 261.24 Mbit/s

95th percentile per-packet one-way delay: 18.466 ms

Loss rate: 0.00%

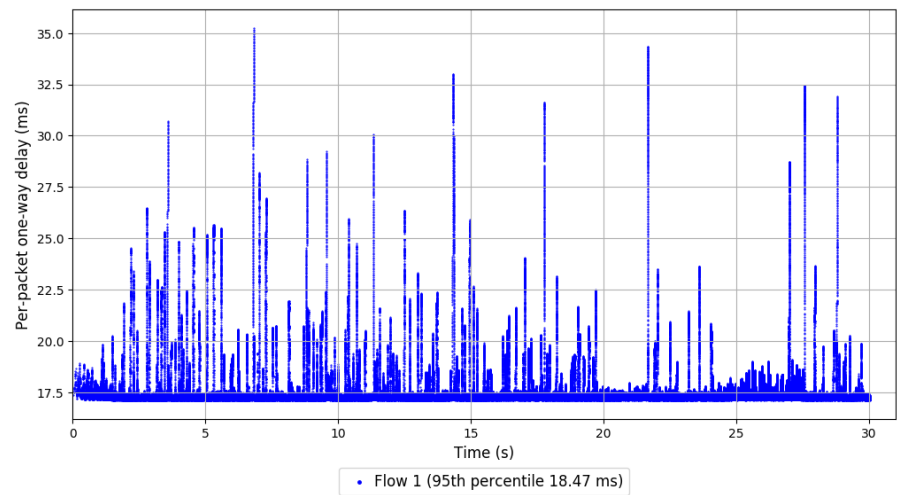
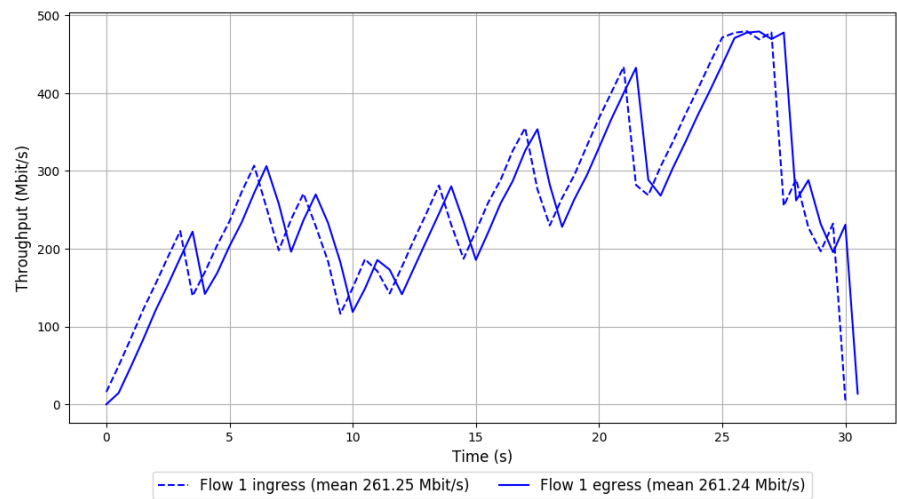
-- Flow 1:

Average throughput: 261.24 Mbit/s

95th percentile per-packet one-way delay: 18.466 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-06-05 07:28:40

End at: 2018-06-05 07:29:10

Local clock offset: 0.239 ms

Remote clock offset: 0.603 ms

Below is generated by plot.py at 2018-06-05 09:13:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 291.48 Mbit/s

95th percentile per-packet one-way delay: 18.841 ms

Loss rate: 0.00%

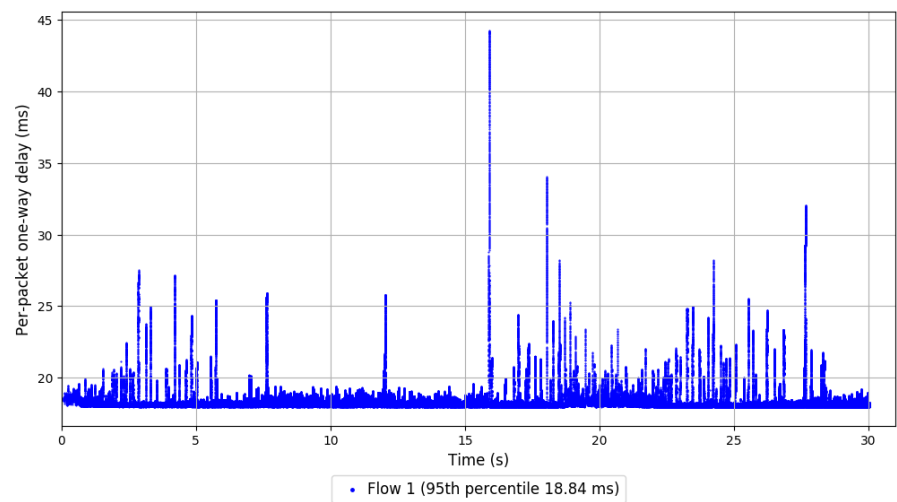
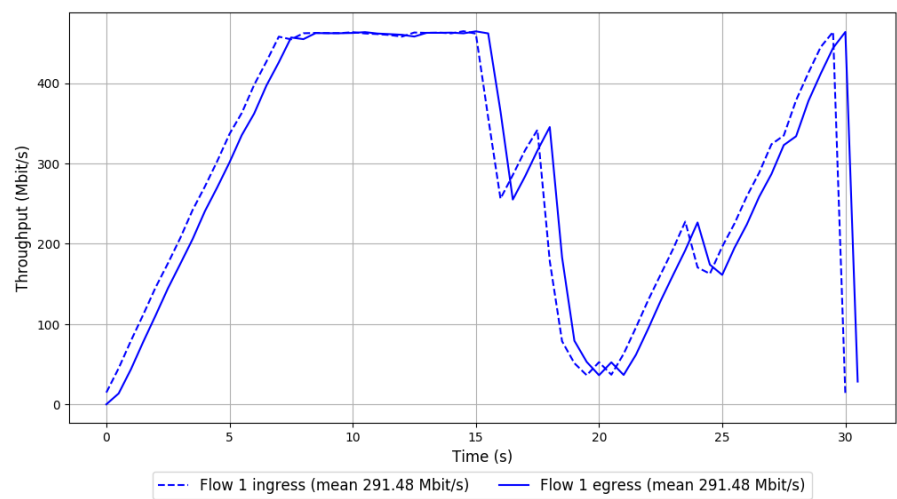
-- Flow 1:

Average throughput: 291.48 Mbit/s

95th percentile per-packet one-way delay: 18.841 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-06-05 07:52:31

End at: 2018-06-05 07:53:01

Local clock offset: 0.055 ms

Remote clock offset: 0.455 ms

Below is generated by plot.py at 2018-06-05 09:13:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 277.50 Mbit/s

95th percentile per-packet one-way delay: 19.368 ms

Loss rate: 0.01%

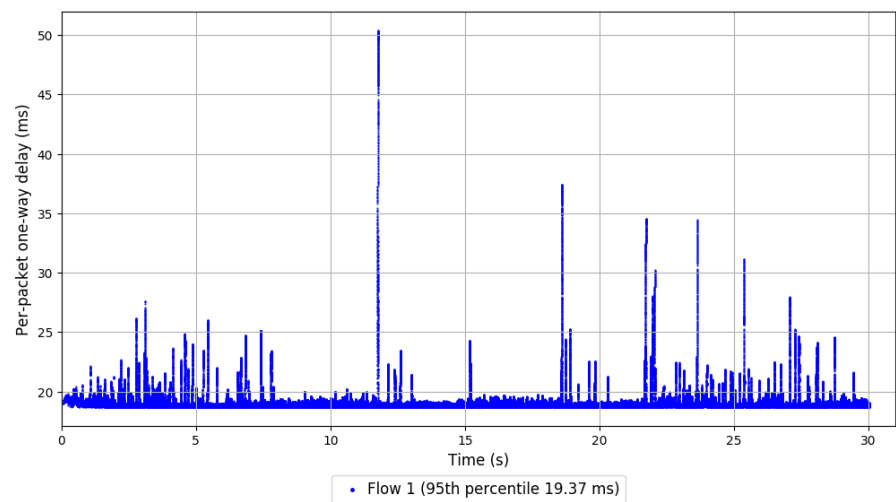
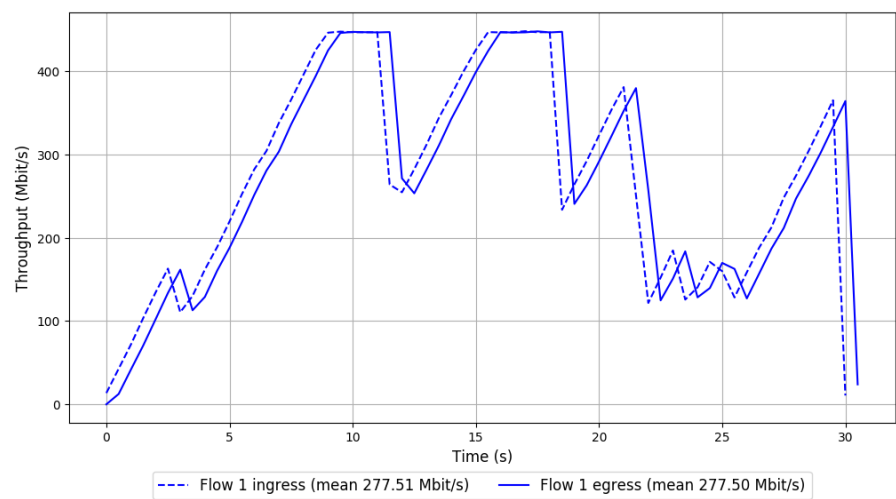
-- Flow 1:

Average throughput: 277.50 Mbit/s

95th percentile per-packet one-way delay: 19.368 ms

Loss rate: 0.01%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-06-05 04:35:44

End at: 2018-06-05 04:36:14

Local clock offset: 0.48 ms

Remote clock offset: 0.21 ms

Below is generated by plot.py at 2018-06-05 09:22:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 874.01 Mbit/s

95th percentile per-packet one-way delay: 34.251 ms

Loss rate: 0.16%

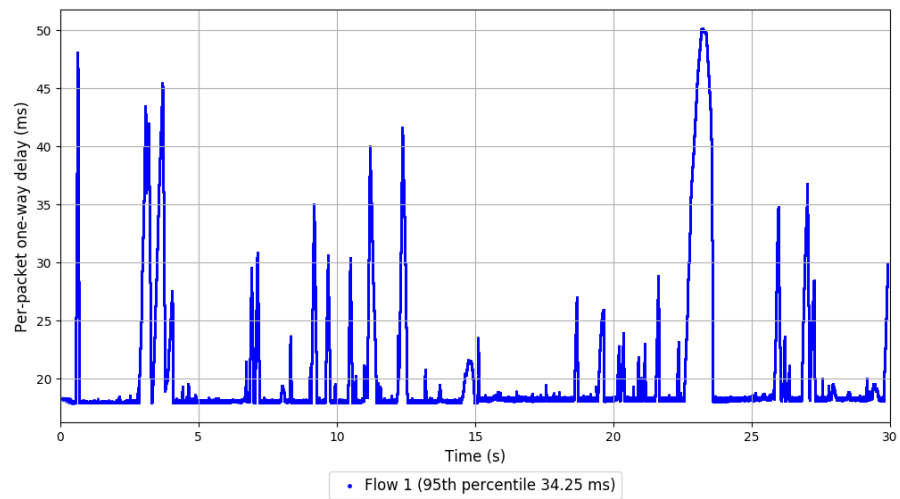
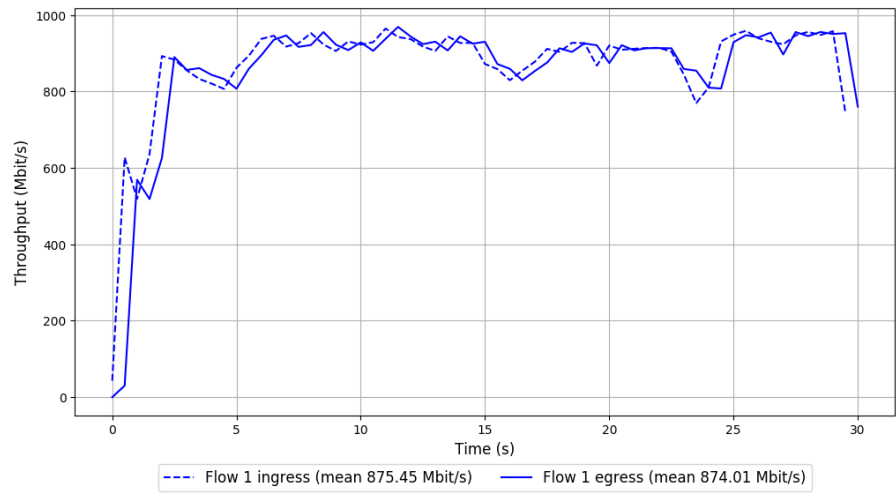
-- Flow 1:

Average throughput: 874.01 Mbit/s

95th percentile per-packet one-way delay: 34.251 ms

Loss rate: 0.16%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-06-05 04:59:31

End at: 2018-06-05 05:00:01

Local clock offset: 0.223 ms

Remote clock offset: 0.219 ms

Below is generated by plot.py at 2018-06-05 09:22:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 880.53 Mbit/s

95th percentile per-packet one-way delay: 25.894 ms

Loss rate: 0.34%

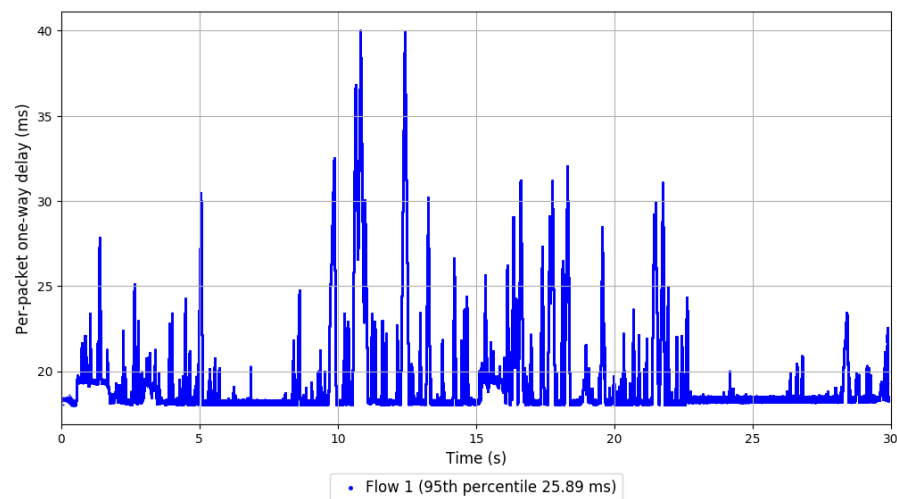
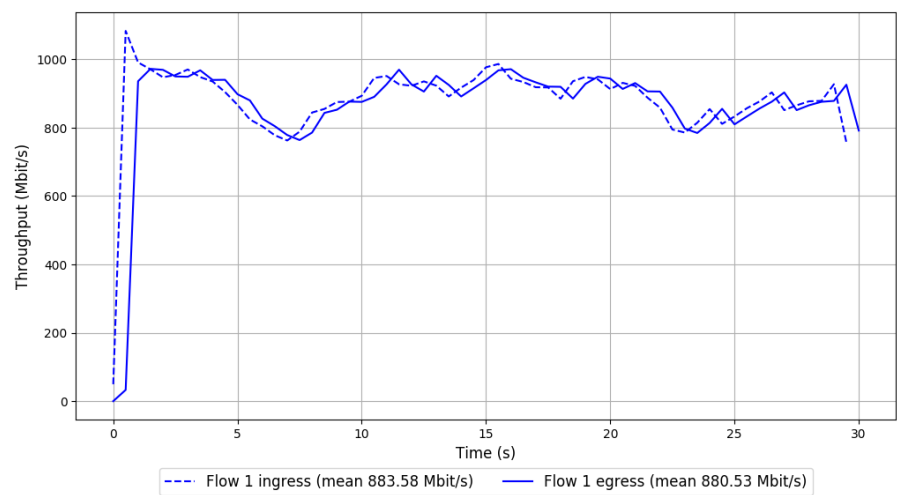
-- Flow 1:

Average throughput: 880.53 Mbit/s

95th percentile per-packet one-way delay: 25.894 ms

Loss rate: 0.34%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-06-05 05:23:14

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

Local clock offset: 0.218 ms

Remote clock offset: 0.246 ms

Below is generated by plot.py at 2018-06-05 09:22:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 869.00 Mbit/s

95th percentile per-packet one-way delay: 35.296 ms

Loss rate: 0.18%

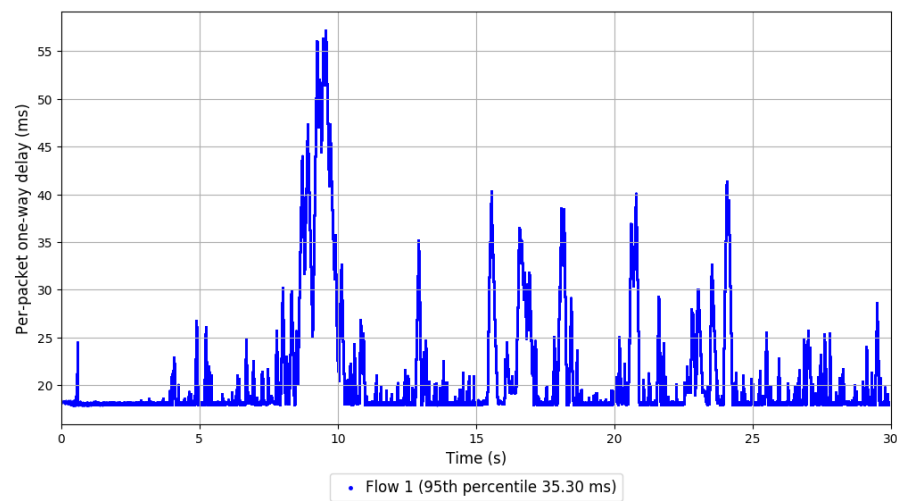
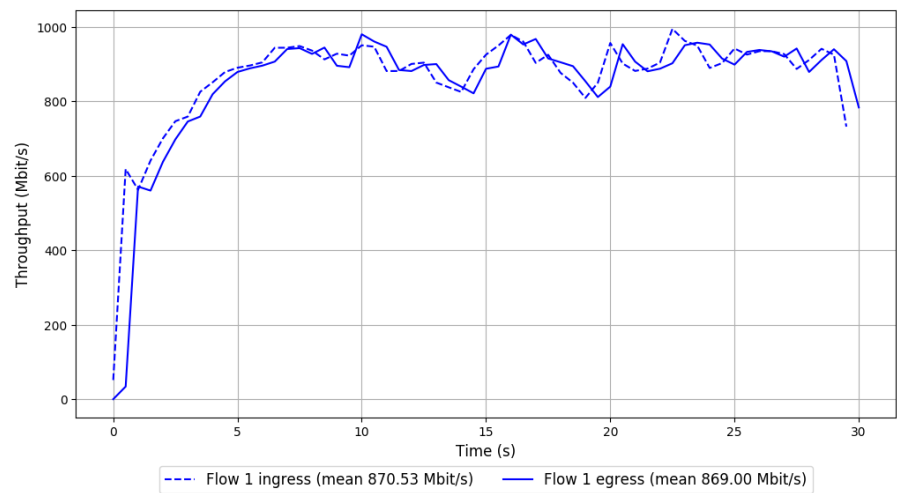
-- Flow 1:

Average throughput: 869.00 Mbit/s

95th percentile per-packet one-way delay: 35.296 ms

Loss rate: 0.18%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-06-05 05:47:08

End at: 2018-06-05 05:47:38

Local clock offset: 0.132 ms

Remote clock offset: 0.043 ms

Below is generated by plot.py at 2018-06-05 09:23:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 873.67 Mbit/s

95th percentile per-packet one-way delay: 22.846 ms

Loss rate: 0.19%

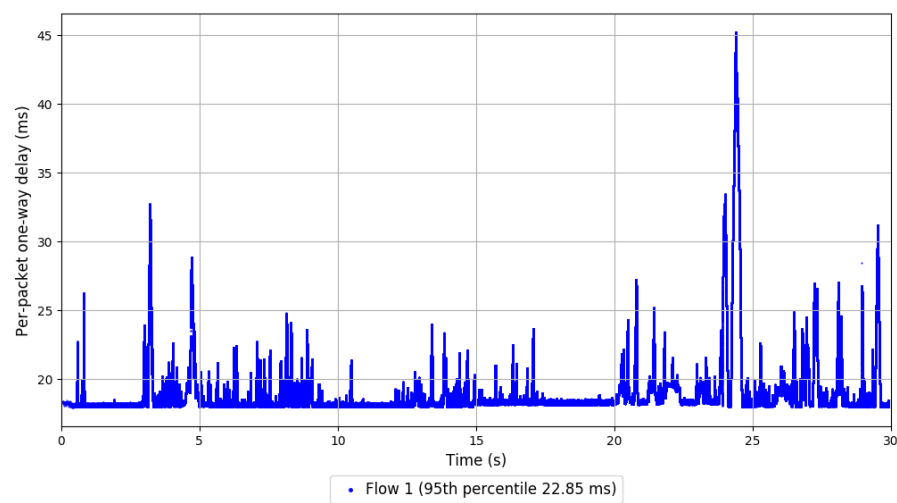
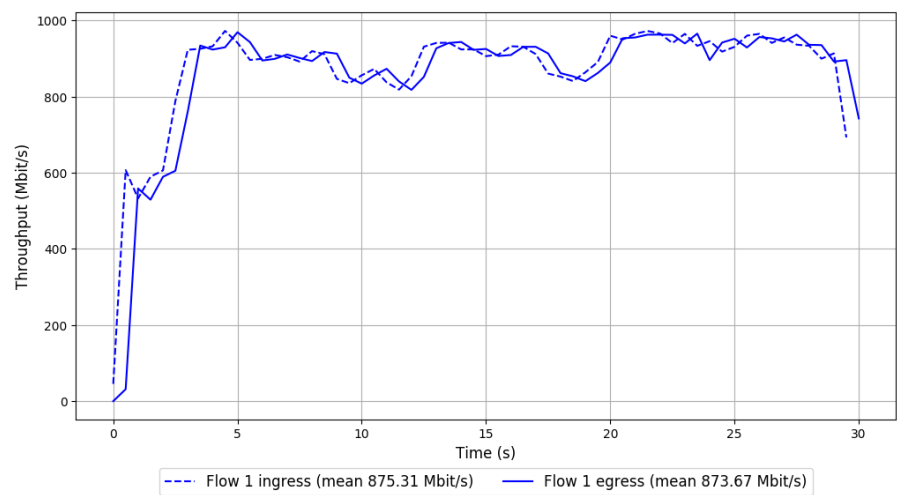
-- Flow 1:

Average throughput: 873.67 Mbit/s

95th percentile per-packet one-way delay: 22.846 ms

Loss rate: 0.19%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-06-05 06:11:00

End at: 2018-06-05 06:11:30

Local clock offset: 0.287 ms

Remote clock offset: -0.47 ms

Below is generated by plot.py at 2018-06-05 09:23:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 902.66 Mbit/s

95th percentile per-packet one-way delay: 25.557 ms

Loss rate: 0.28%

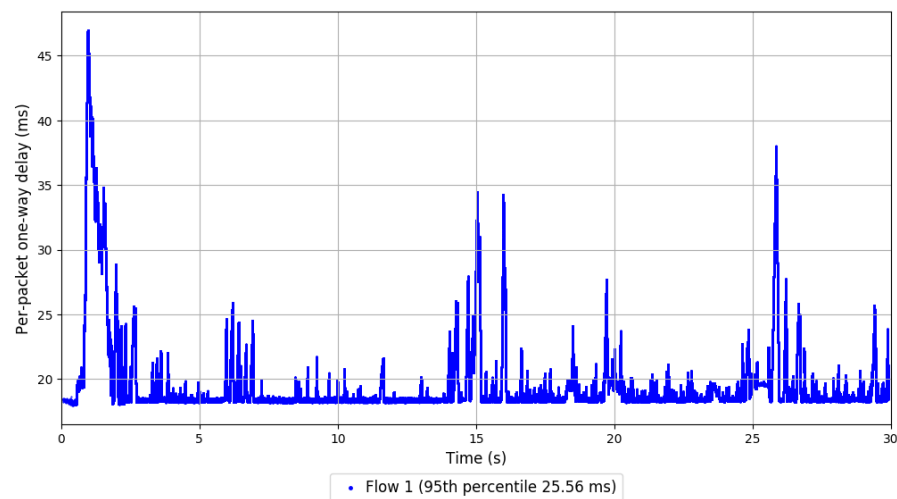
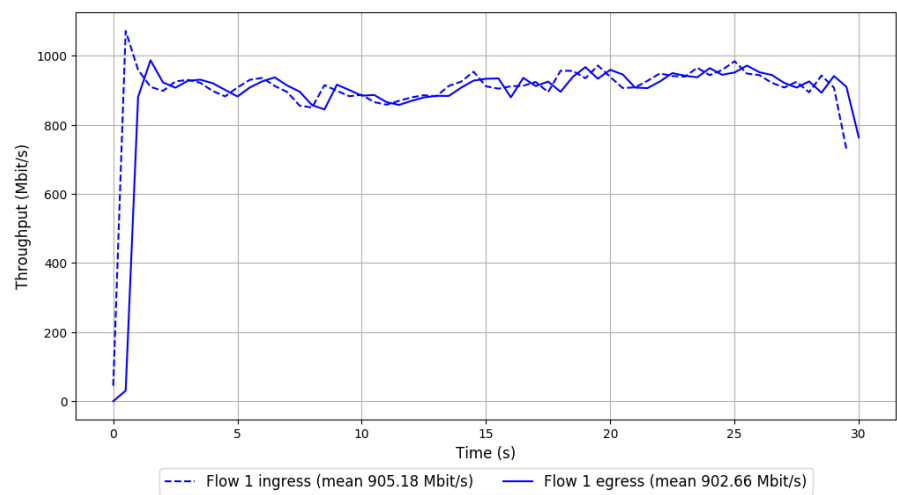
-- Flow 1:

Average throughput: 902.66 Mbit/s

95th percentile per-packet one-way delay: 25.557 ms

Loss rate: 0.28%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-06-05 06:34:50

End at: 2018-06-05 06:35:20

Local clock offset: 0.318 ms

Remote clock offset: -0.929 ms

Below is generated by plot.py at 2018-06-05 09:23:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 853.25 Mbit/s

95th percentile per-packet one-way delay: 23.179 ms

Loss rate: 0.18%

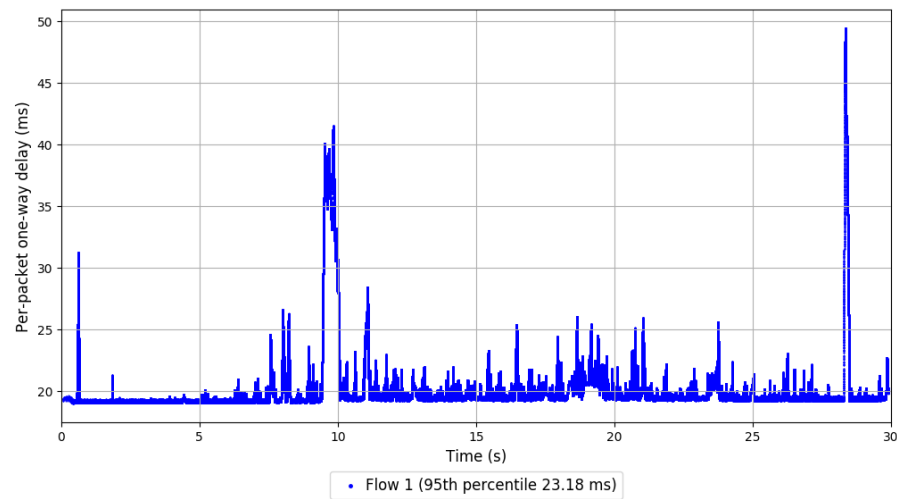
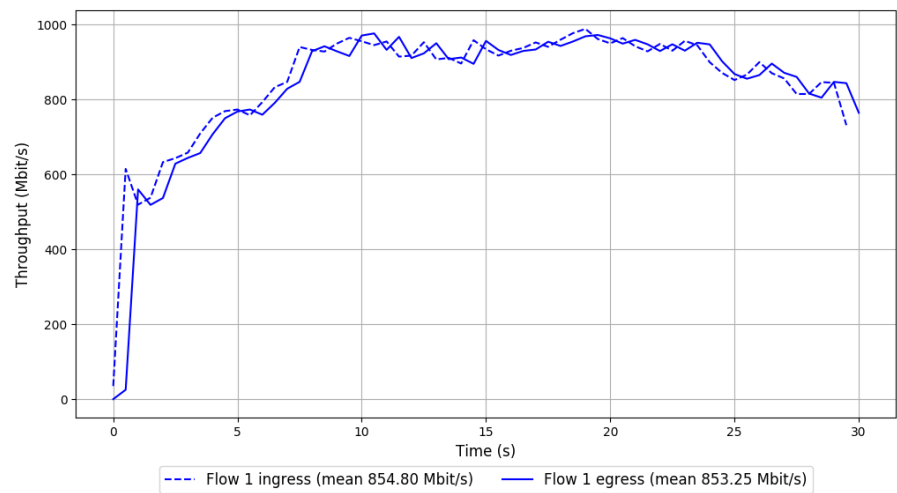
-- Flow 1:

Average throughput: 853.25 Mbit/s

95th percentile per-packet one-way delay: 23.179 ms

Loss rate: 0.18%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-06-05 06:58:35

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

Local clock offset: 0.296 ms

Remote clock offset: -1.307 ms

Below is generated by plot.py at 2018-06-05 09:24:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 917.60 Mbit/s

95th percentile per-packet one-way delay: 22.775 ms

Loss rate: 0.43%

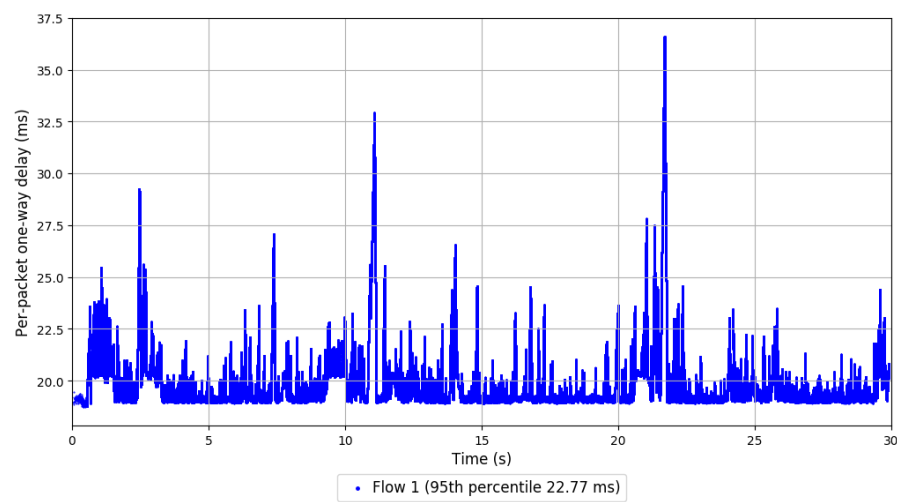
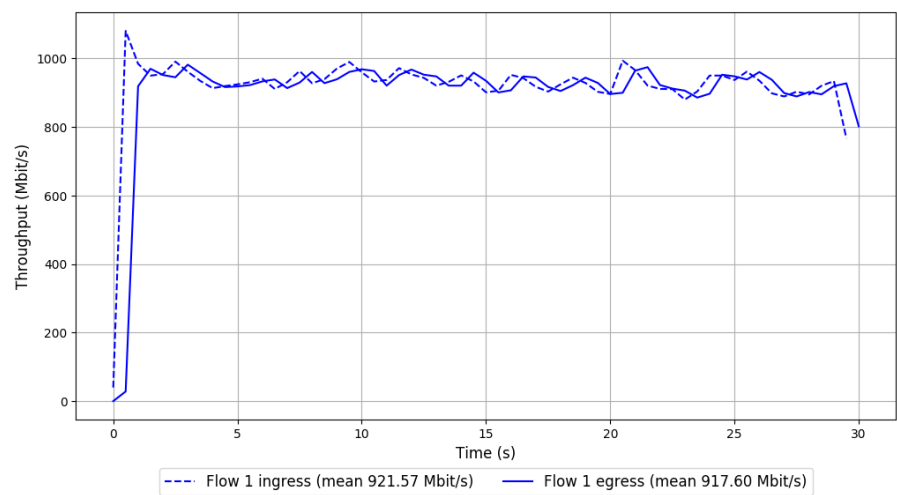
-- Flow 1:

Average throughput: 917.60 Mbit/s

95th percentile per-packet one-way delay: 22.775 ms

Loss rate: 0.43%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-06-05 07:22:21

End at: 2018-06-05 07:22:51

Local clock offset: 0.32 ms

Remote clock offset: 0.214 ms

Below is generated by plot.py at 2018-06-05 09:24:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 920.68 Mbit/s

95th percentile per-packet one-way delay: 20.414 ms

Loss rate: 0.45%

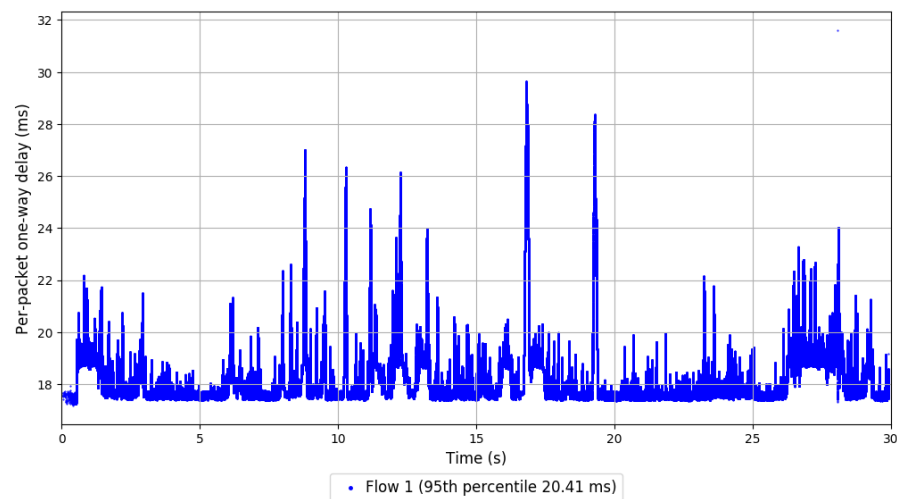
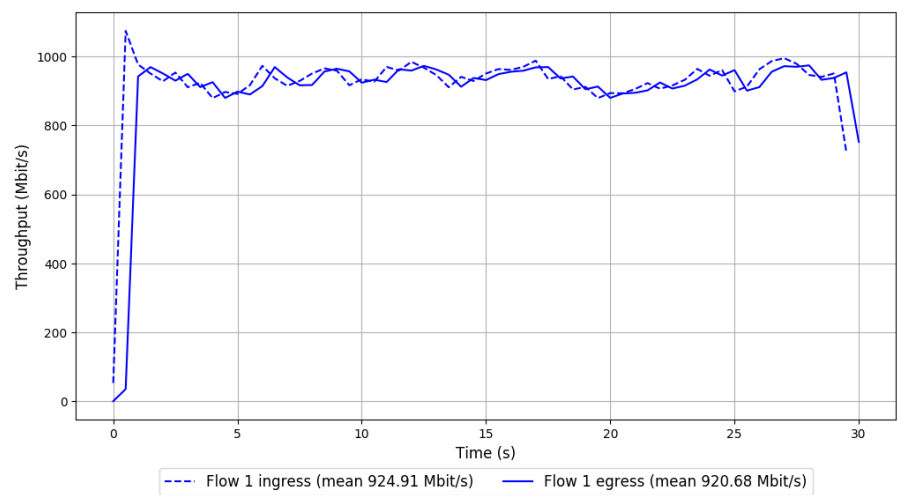
-- Flow 1:

Average throughput: 920.68 Mbit/s

95th percentile per-packet one-way delay: 20.414 ms

Loss rate: 0.45%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-06-05 07:46:12

End at: 2018-06-05 07:46:42

Local clock offset: 0.096 ms

Remote clock offset: 0.856 ms

Below is generated by plot.py at 2018-06-05 09:33:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 913.01 Mbit/s

95th percentile per-packet one-way delay: 22.325 ms

Loss rate: 0.58%

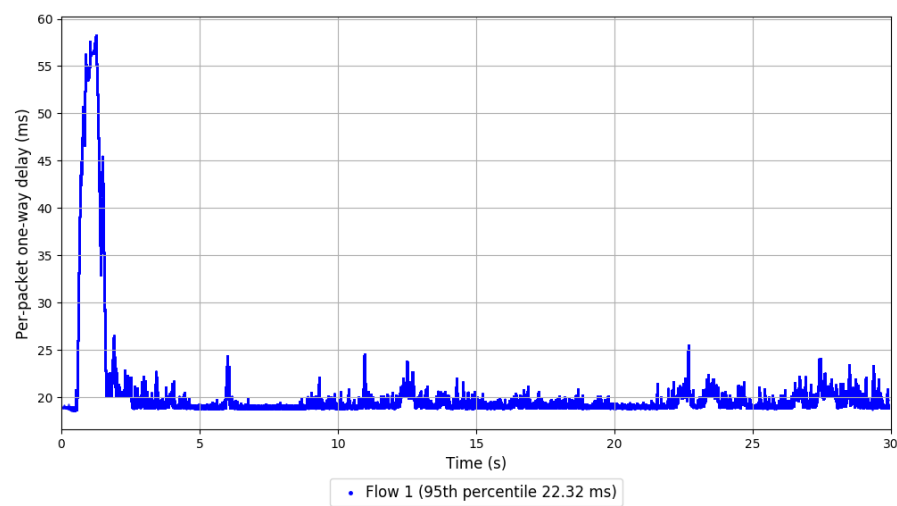
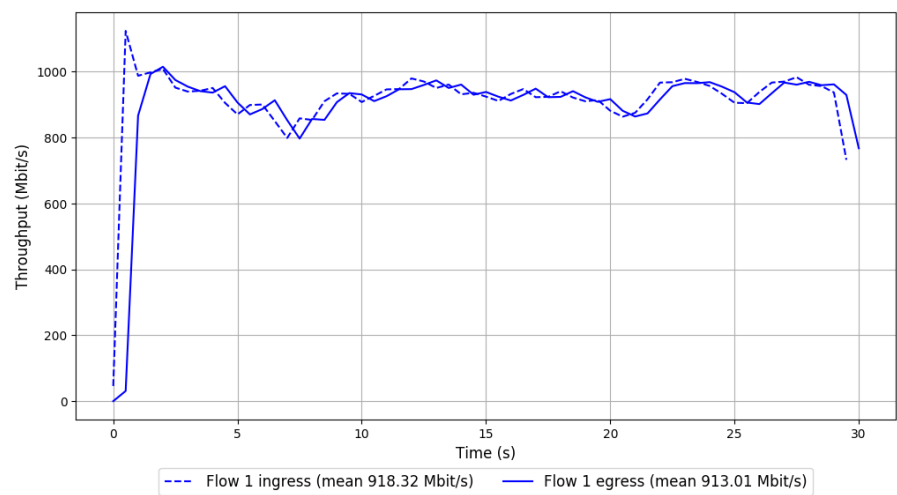
-- Flow 1:

Average throughput: 913.01 Mbit/s

95th percentile per-packet one-way delay: 22.325 ms

Loss rate: 0.58%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-06-05 08:10:02

End at: 2018-06-05 08:10:32

Local clock offset: 0.041 ms

Remote clock offset: 0.07 ms

Below is generated by plot.py at 2018-06-05 09:33:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 900.87 Mbit/s

95th percentile per-packet one-way delay: 20.856 ms

Loss rate: 0.40%

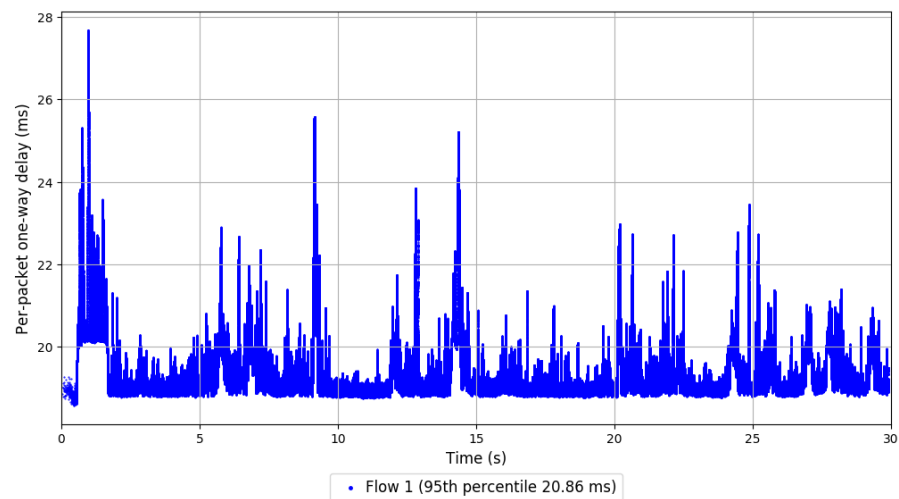
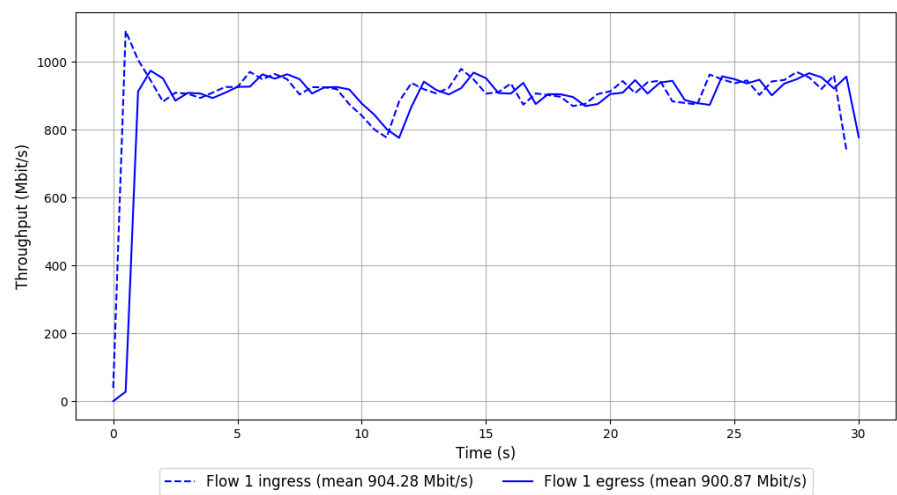
-- Flow 1:

Average throughput: 900.87 Mbit/s

95th percentile per-packet one-way delay: 20.856 ms

Loss rate: 0.40%

Run 10: Report of PCC-Allegro — Data Link

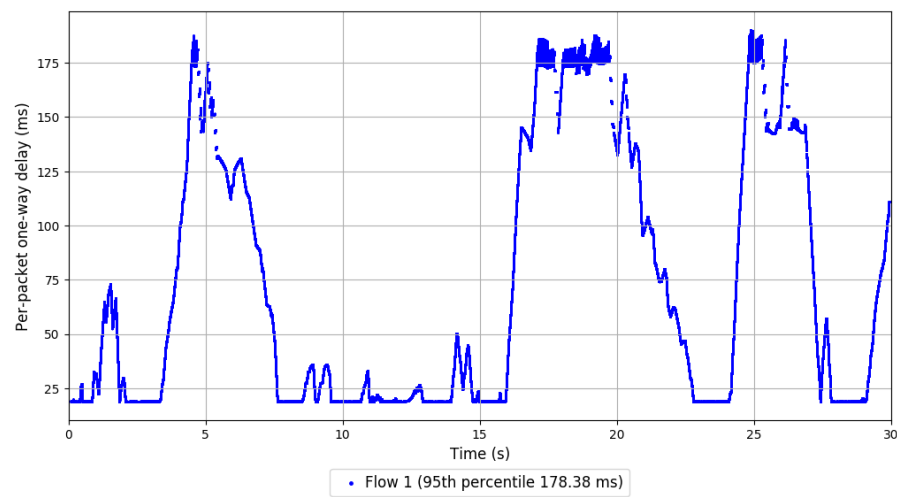
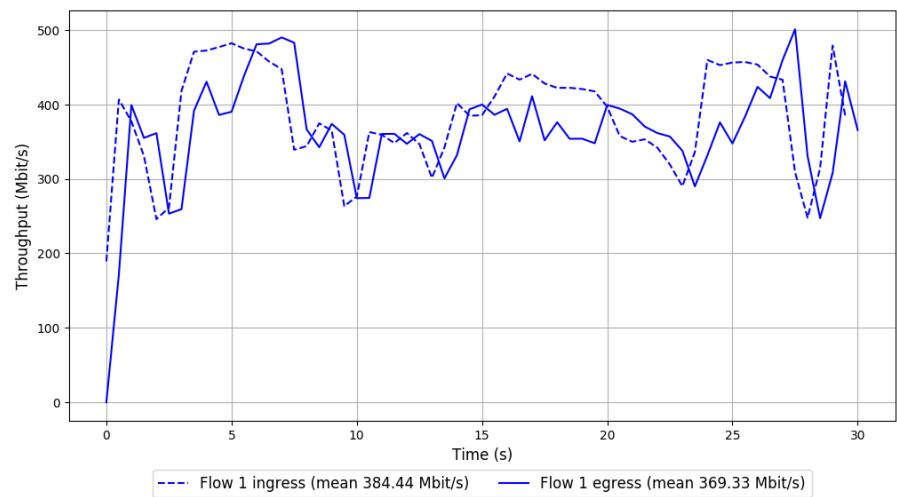


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-05 04:26:49
End at: 2018-06-05 04:27:19
Local clock offset: 0.333 ms
Remote clock offset: 0.28 ms

# Below is generated by plot.py at 2018-06-05 09:33:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 369.33 Mbit/s
95th percentile per-packet one-way delay: 178.379 ms
Loss rate: 3.93%
-- Flow 1:
Average throughput: 369.33 Mbit/s
95th percentile per-packet one-way delay: 178.379 ms
Loss rate: 3.93%
```

Run 1: Report of PCC-Expr — Data Link

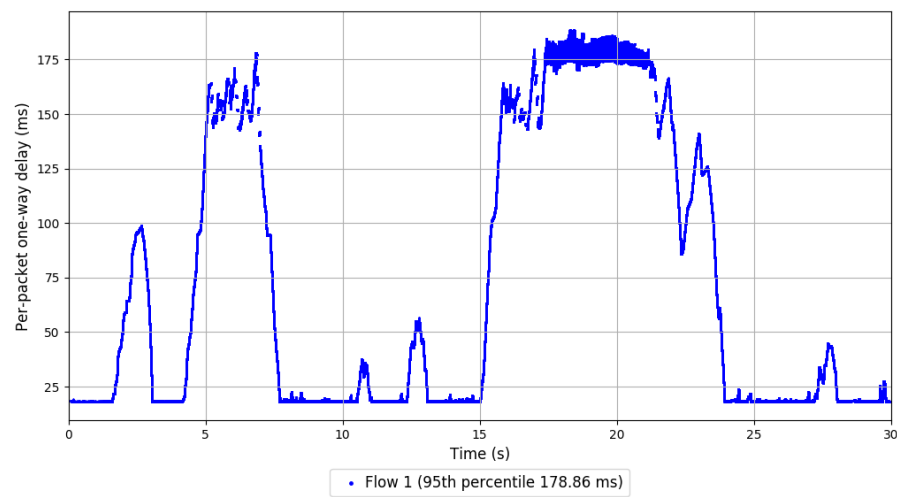
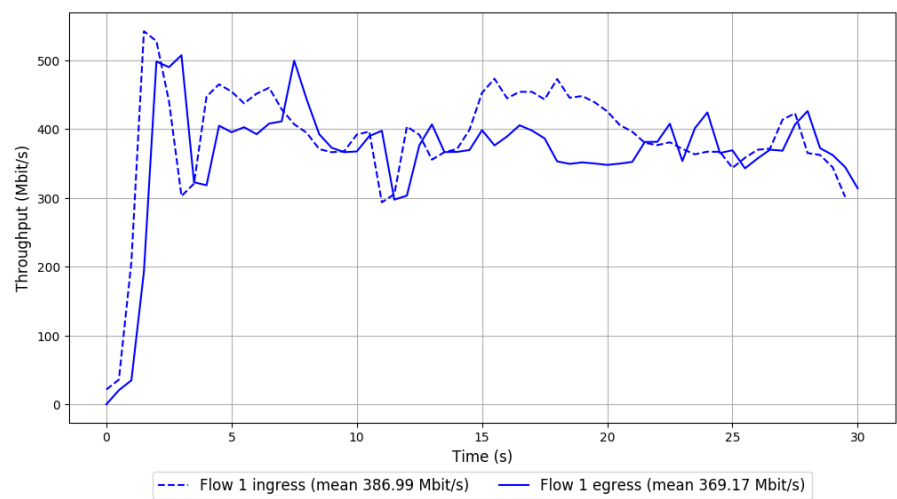


```
Run 2: Statistics of PCC-Expr

Start at: 2018-06-05 04:50:36
End at: 2018-06-05 04:51:06
Local clock offset: 0.494 ms
Remote clock offset: 0.453 ms

# Below is generated by plot.py at 2018-06-05 09:33:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 369.17 Mbit/s
95th percentile per-packet one-way delay: 178.863 ms
Loss rate: 4.61%
-- Flow 1:
Average throughput: 369.17 Mbit/s
95th percentile per-packet one-way delay: 178.863 ms
Loss rate: 4.61%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

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

End at: 2018-06-05 05:14:51

Local clock offset: 0.206 ms

Remote clock offset: 0.209 ms

Below is generated by plot.py at 2018-06-05 09:33:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 360.70 Mbit/s

95th percentile per-packet one-way delay: 156.960 ms

Loss rate: 1.83%

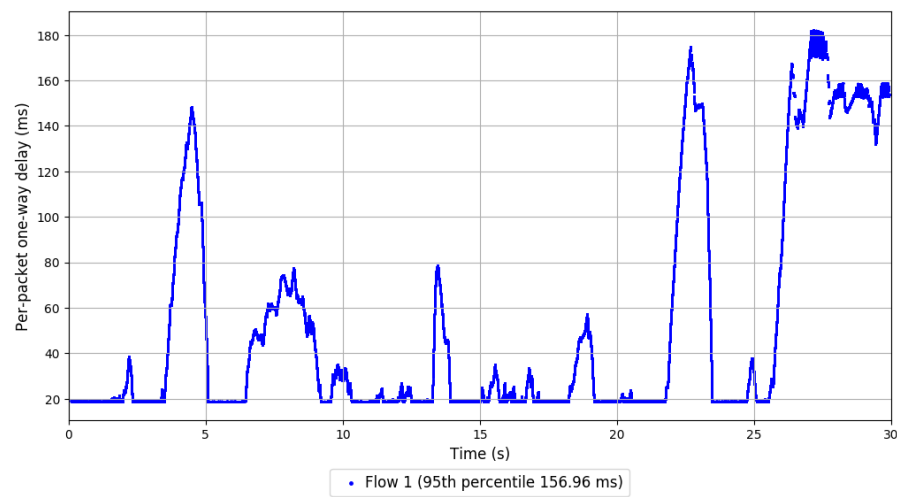
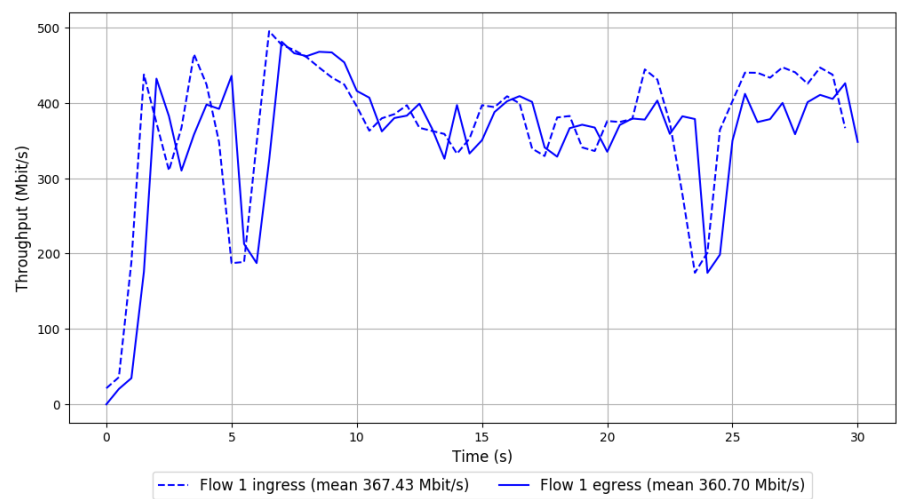
-- Flow 1:

Average throughput: 360.70 Mbit/s

95th percentile per-packet one-way delay: 156.960 ms

Loss rate: 1.83%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

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

End at: 2018-06-05 05:38:49

Local clock offset: 0.122 ms

Remote clock offset: 0.157 ms

Below is generated by plot.py at 2018-06-05 09:33:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 340.83 Mbit/s

95th percentile per-packet one-way delay: 146.247 ms

Loss rate: 0.83%

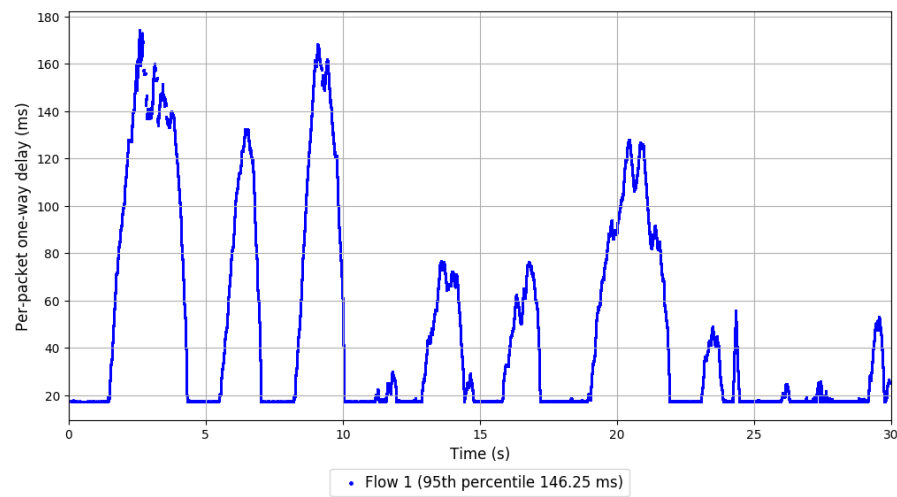
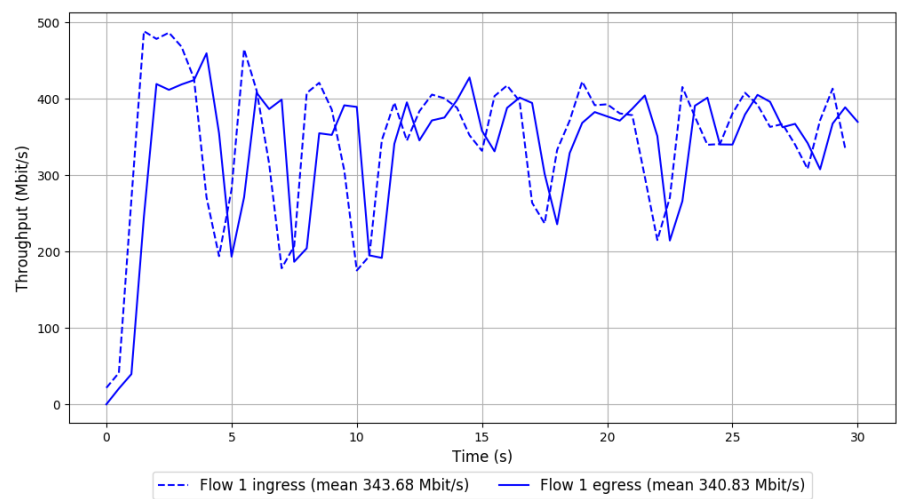
-- Flow 1:

Average throughput: 340.83 Mbit/s

95th percentile per-packet one-way delay: 146.247 ms

Loss rate: 0.83%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-06-05 06:02:08

End at: 2018-06-05 06:02:38

Local clock offset: 0.357 ms

Remote clock offset: 0.237 ms

Below is generated by plot.py at 2018-06-05 09:33:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 347.51 Mbit/s

95th percentile per-packet one-way delay: 134.393 ms

Loss rate: 0.42%

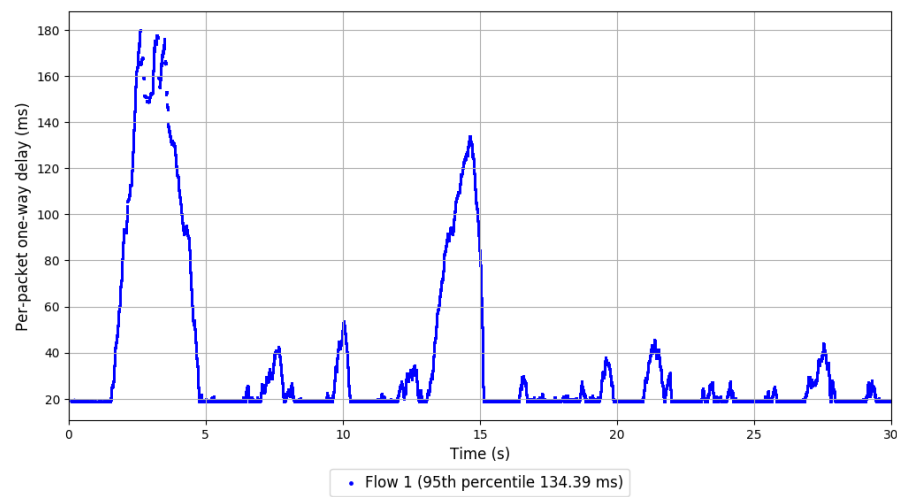
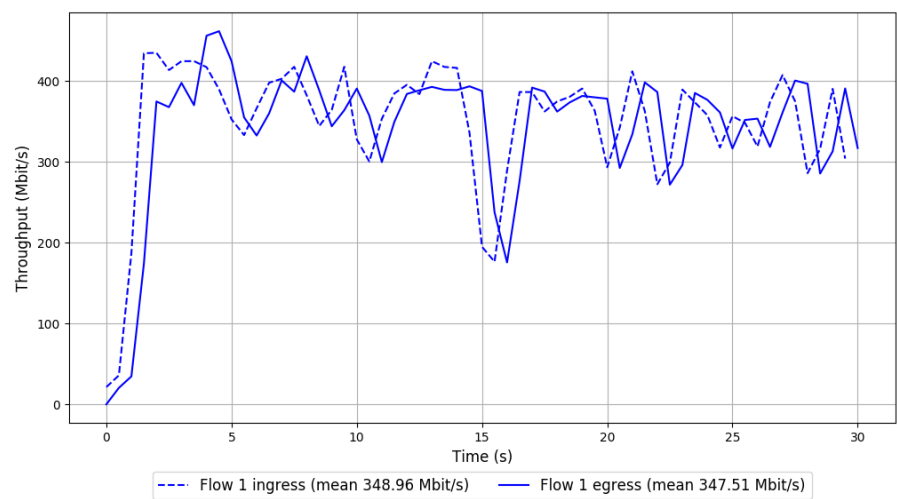
-- Flow 1:

Average throughput: 347.51 Mbit/s

95th percentile per-packet one-way delay: 134.393 ms

Loss rate: 0.42%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-06-05 06:25:58

End at: 2018-06-05 06:26:28

Local clock offset: 0.396 ms

Remote clock offset: -0.869 ms

Below is generated by plot.py at 2018-06-05 09:33:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 371.39 Mbit/s

95th percentile per-packet one-way delay: 151.694 ms

Loss rate: 1.86%

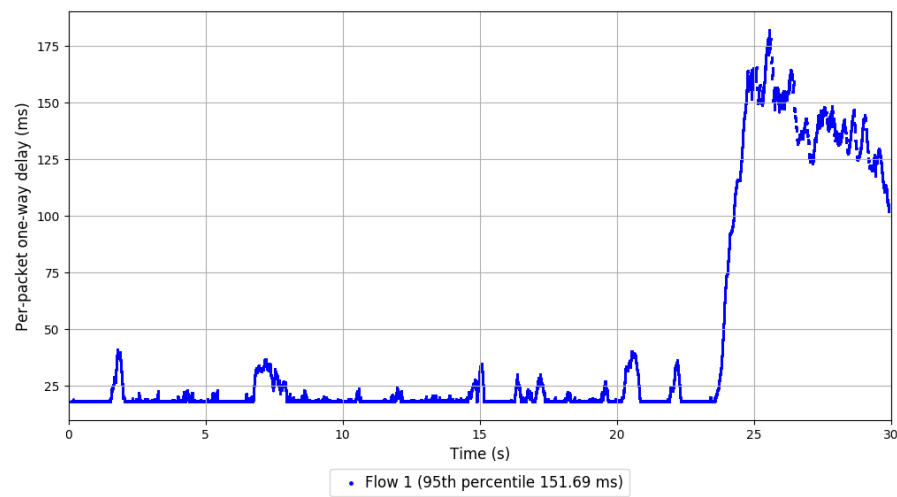
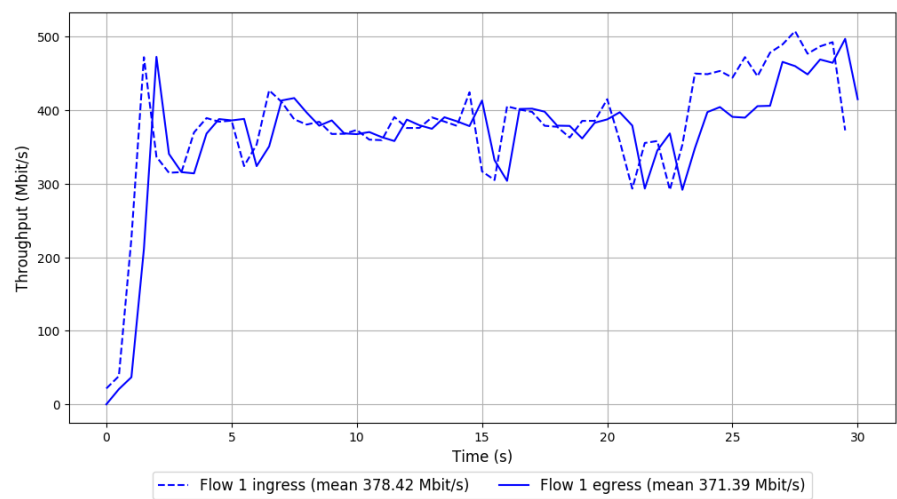
-- Flow 1:

Average throughput: 371.39 Mbit/s

95th percentile per-packet one-way delay: 151.694 ms

Loss rate: 1.86%

Run 6: Report of PCC-Expr — Data Link

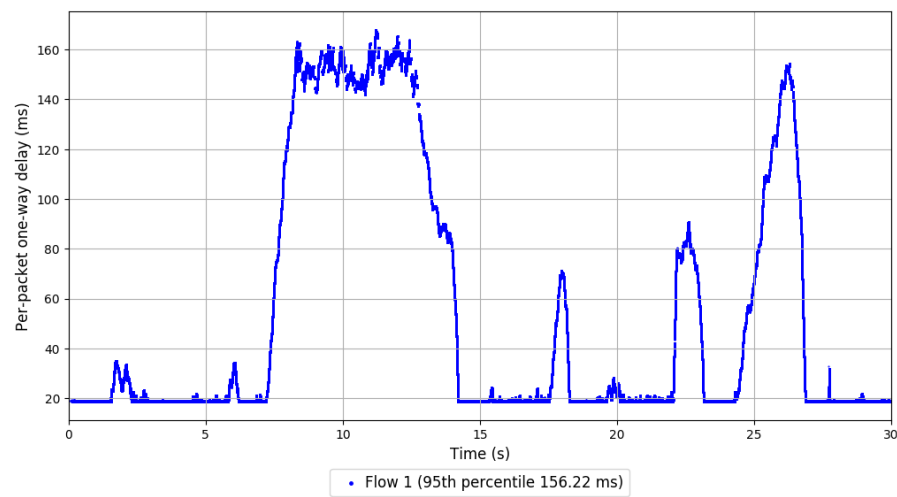
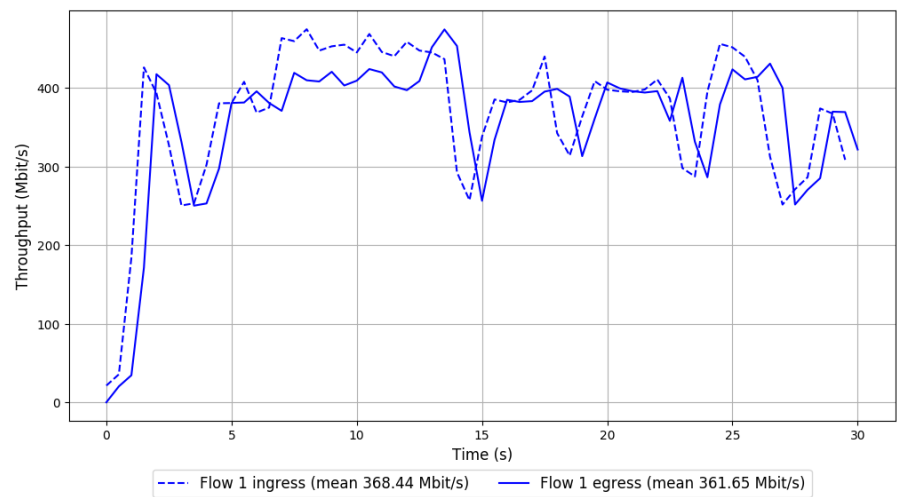


Run 7: Statistics of PCC-Expr

Start at: 2018-06-05 06:49:46
End at: 2018-06-05 06:50:16
Local clock offset: 0.378 ms
Remote clock offset: -1.268 ms

Below is generated by plot.py at 2018-06-05 09:39:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 361.65 Mbit/s
95th percentile per-packet one-way delay: 156.218 ms
Loss rate: 1.84%
-- Flow 1:
Average throughput: 361.65 Mbit/s
95th percentile per-packet one-way delay: 156.218 ms
Loss rate: 1.84%

Run 7: Report of PCC-Expr — Data Link

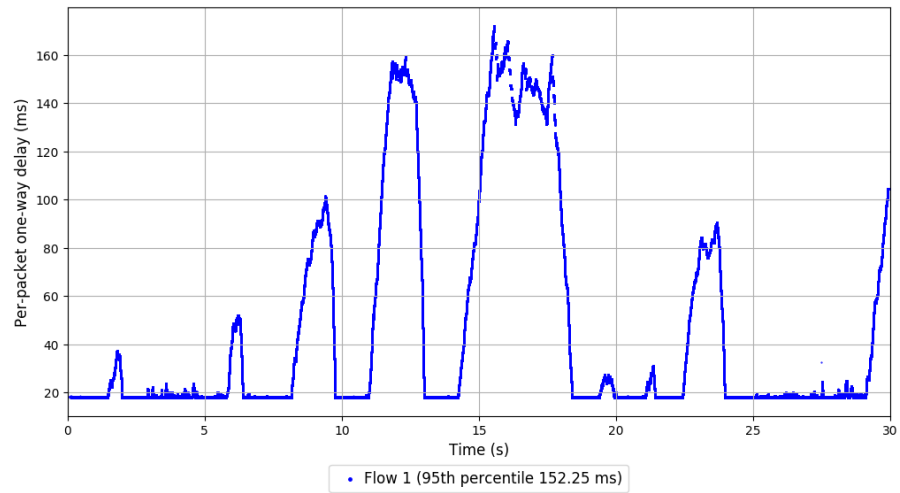
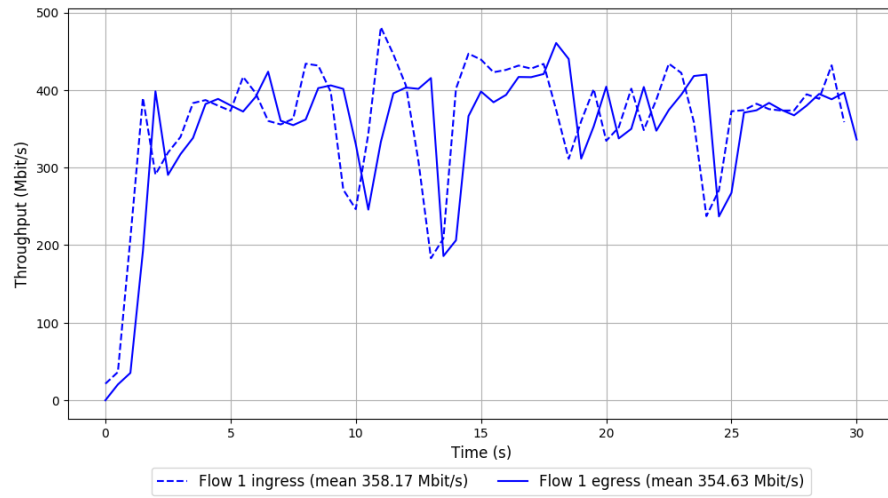


Run 8: Statistics of PCC-Expr

Start at: 2018-06-05 07:13:31
End at: 2018-06-05 07:14:01
Local clock offset: 0.385 ms
Remote clock offset: -0.824 ms

Below is generated by plot.py at 2018-06-05 09:39:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 354.63 Mbit/s
95th percentile per-packet one-way delay: 152.248 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 354.63 Mbit/s
95th percentile per-packet one-way delay: 152.248 ms
Loss rate: 0.99%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-06-05 07:37:20

End at: 2018-06-05 07:37:51

Local clock offset: 0.158 ms

Remote clock offset: 0.854 ms

Below is generated by plot.py at 2018-06-05 09:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 371.63 Mbit/s

95th percentile per-packet one-way delay: 74.803 ms

Loss rate: 0.00%

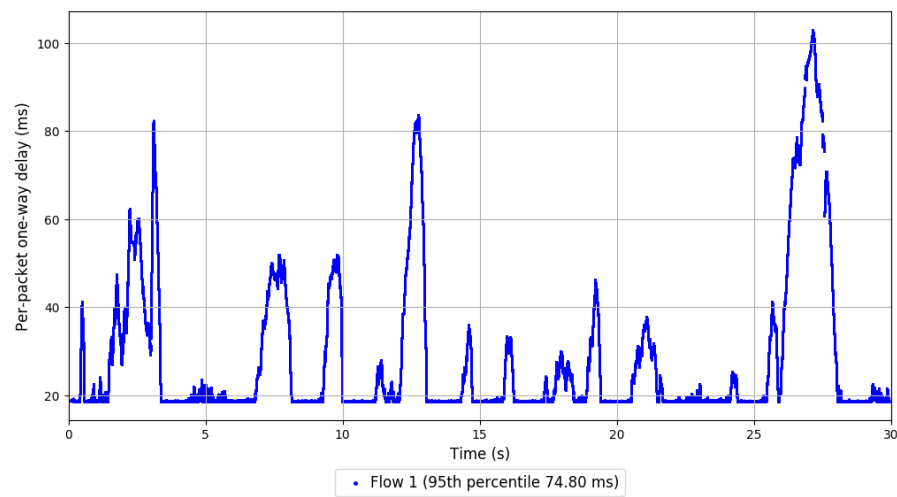
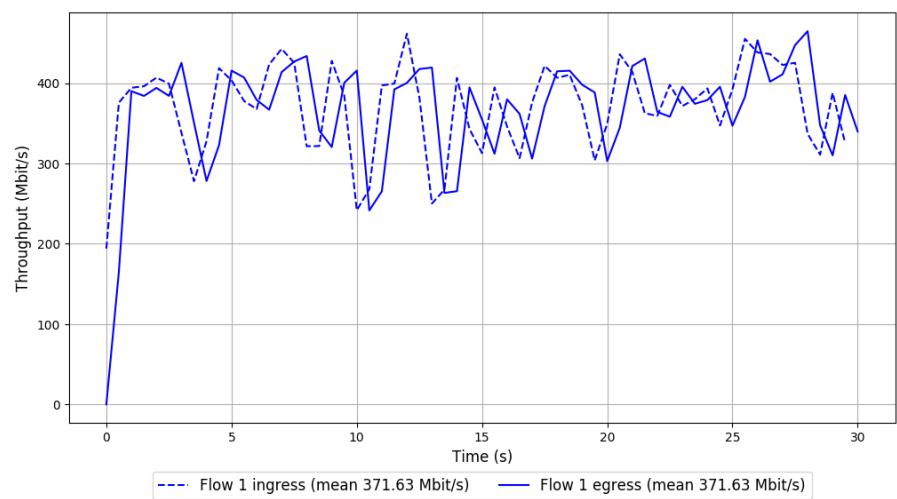
-- Flow 1:

Average throughput: 371.63 Mbit/s

95th percentile per-packet one-way delay: 74.803 ms

Loss rate: 0.00%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-06-05 08:01:09

End at: 2018-06-05 08:01:39

Local clock offset: -0.02 ms

Remote clock offset: 0.187 ms

Below is generated by plot.py at 2018-06-05 09:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 359.01 Mbit/s

95th percentile per-packet one-way delay: 71.649 ms

Loss rate: 0.00%

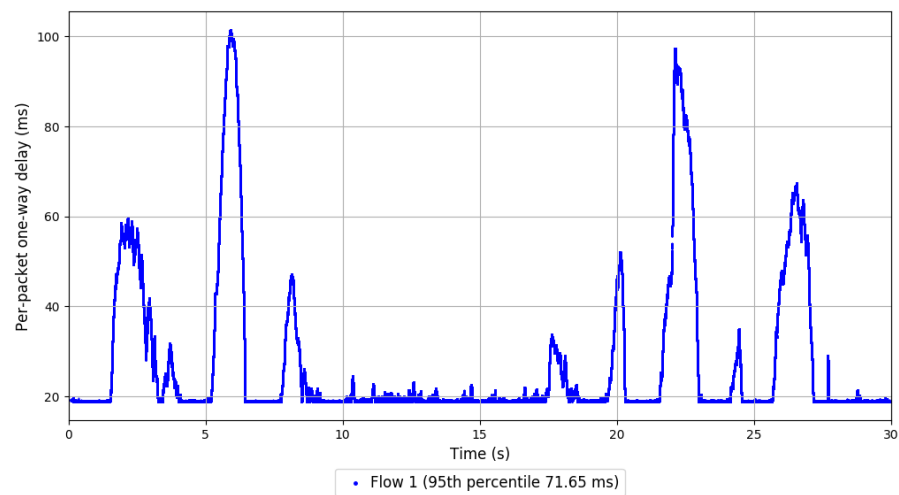
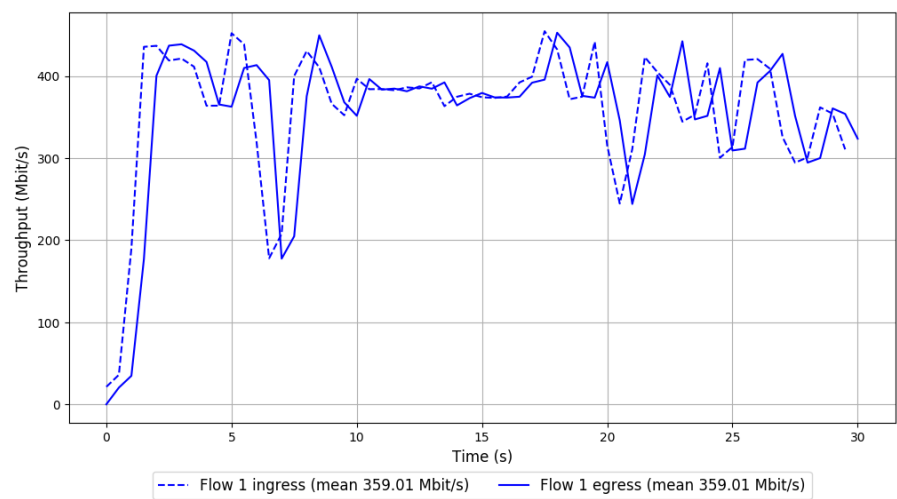
-- Flow 1:

Average throughput: 359.01 Mbit/s

95th percentile per-packet one-way delay: 71.649 ms

Loss rate: 0.00%

Run 10: Report of PCC-Expr — Data Link

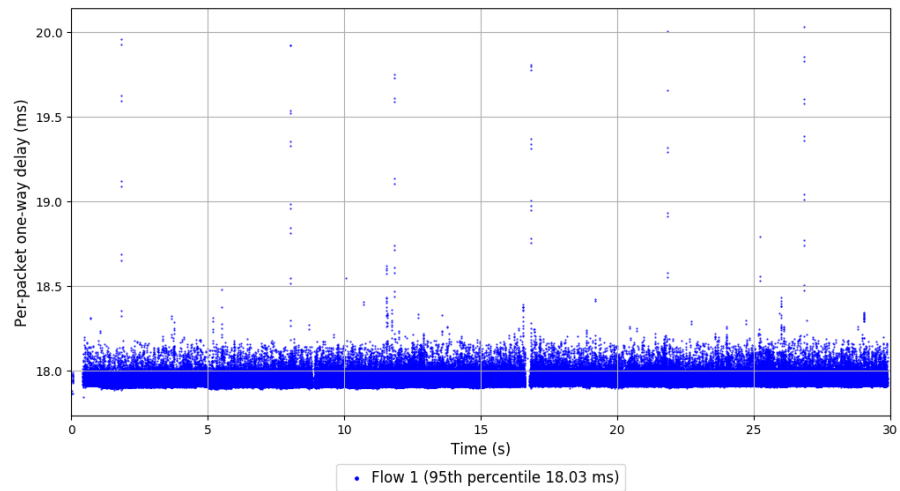
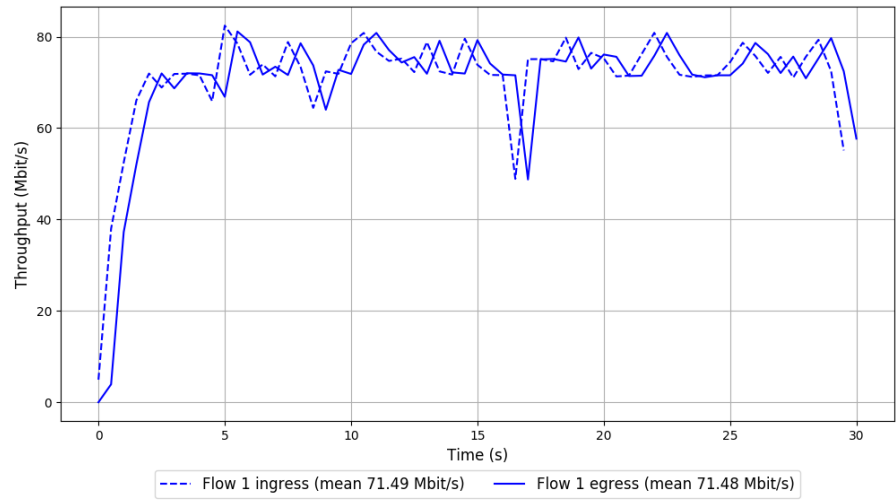


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-06-05 04:25:29
End at: 2018-06-05 04:25:59
Local clock offset: 0.424 ms
Remote clock offset: 0.235 ms

# Below is generated by plot.py at 2018-06-05 09:40:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.48 Mbit/s
95th percentile per-packet one-way delay: 18.028 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 71.48 Mbit/s
95th percentile per-packet one-way delay: 18.028 ms
Loss rate: 0.01%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-06-05 04:49:15

End at: 2018-06-05 04:49:45

Local clock offset: 0.475 ms

Remote clock offset: 0.384 ms

Below is generated by plot.py at 2018-06-05 09:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.04 Mbit/s

95th percentile per-packet one-way delay: 18.085 ms

Loss rate: 0.00%

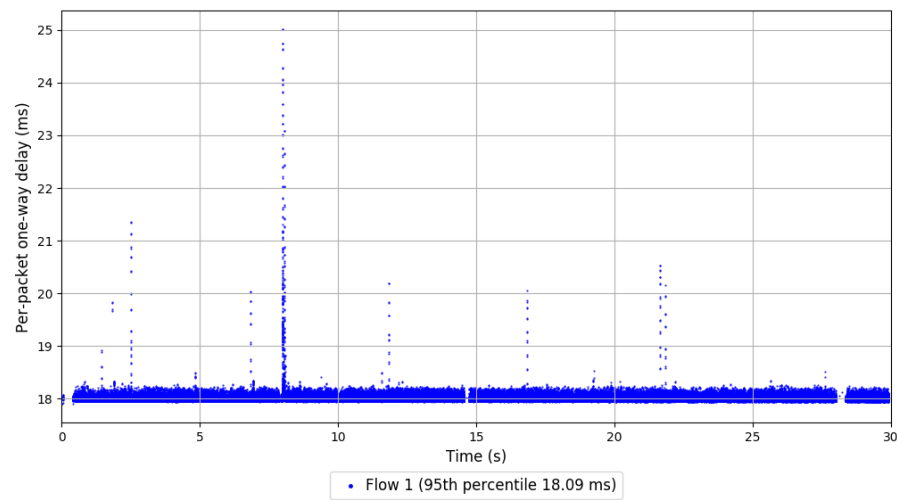
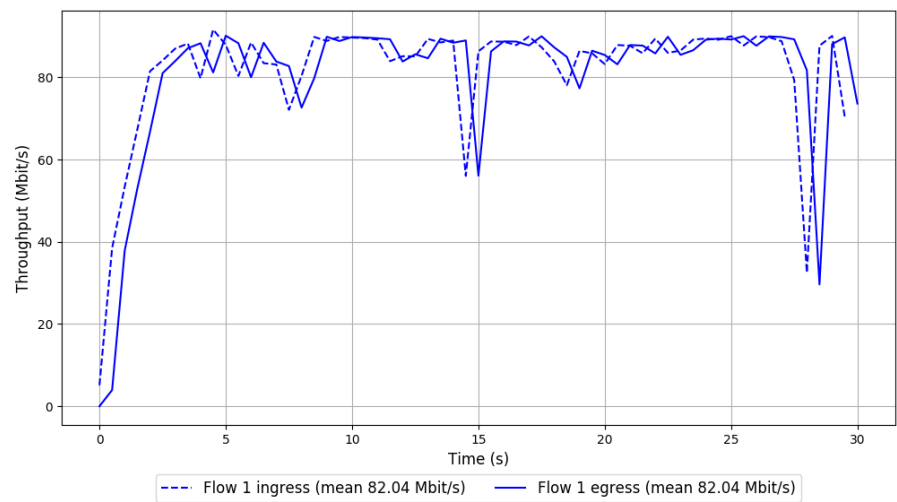
-- Flow 1:

Average throughput: 82.04 Mbit/s

95th percentile per-packet one-way delay: 18.085 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-06-05 05:13:01

End at: 2018-06-05 05:13:31

Local clock offset: 0.122 ms

Remote clock offset: 0.169 ms

Below is generated by plot.py at 2018-06-05 09:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.85 Mbit/s

95th percentile per-packet one-way delay: 18.866 ms

Loss rate: 0.01%

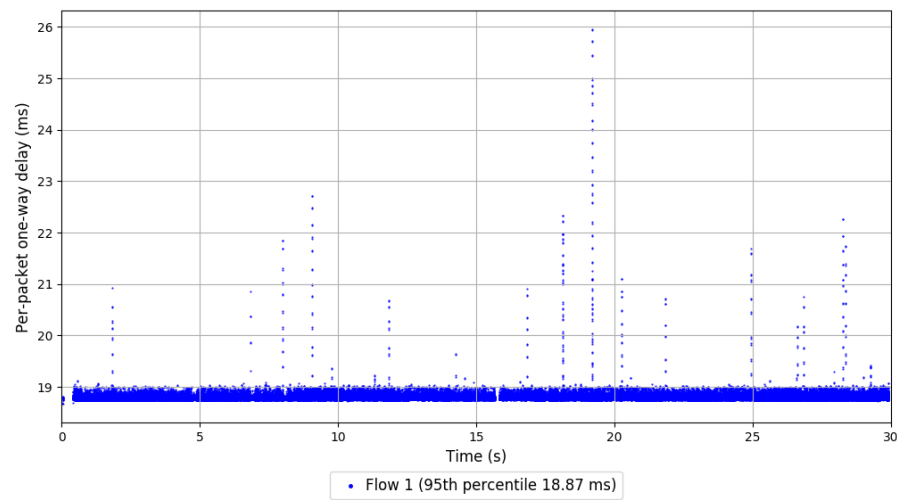
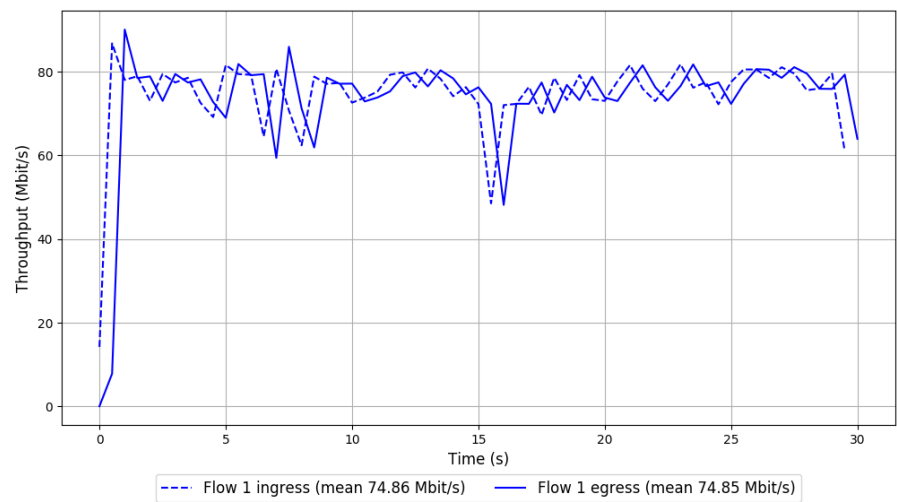
-- Flow 1:

Average throughput: 74.85 Mbit/s

95th percentile per-packet one-way delay: 18.866 ms

Loss rate: 0.01%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-06-05 05:36:59

End at: 2018-06-05 05:37:29

Local clock offset: 0.13 ms

Remote clock offset: 0.128 ms

Below is generated by plot.py at 2018-06-05 09:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.32 Mbit/s

95th percentile per-packet one-way delay: 18.836 ms

Loss rate: 0.00%

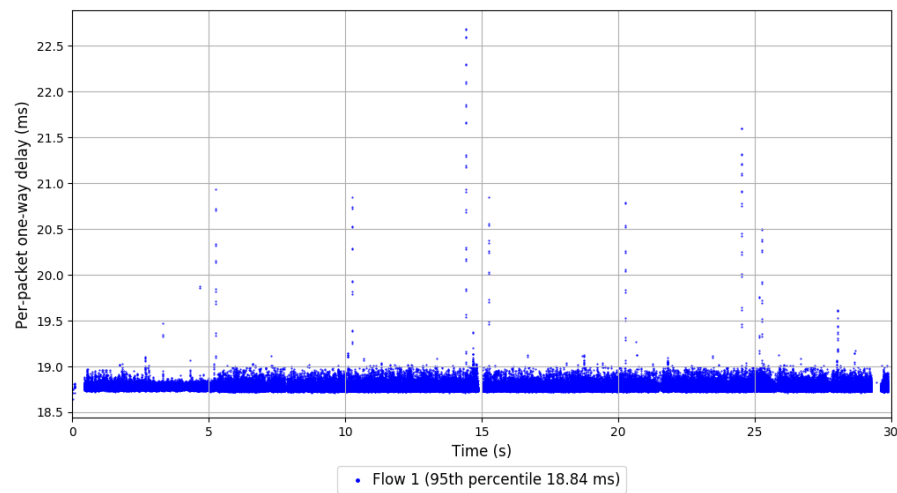
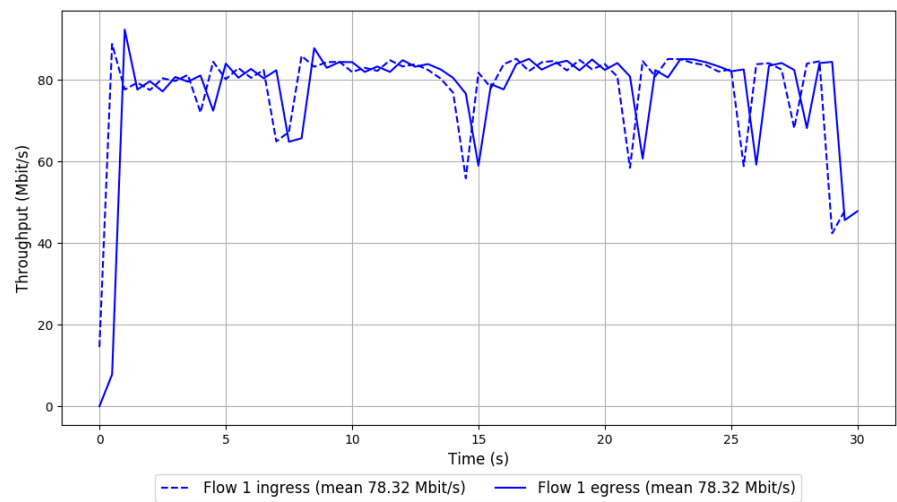
-- Flow 1:

Average throughput: 78.32 Mbit/s

95th percentile per-packet one-way delay: 18.836 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-06-05 06:00:48

End at: 2018-06-05 06:01:18

Local clock offset: 0.245 ms

Remote clock offset: 0.162 ms

Below is generated by plot.py at 2018-06-05 09:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.06 Mbit/s

95th percentile per-packet one-way delay: 18.878 ms

Loss rate: 0.01%

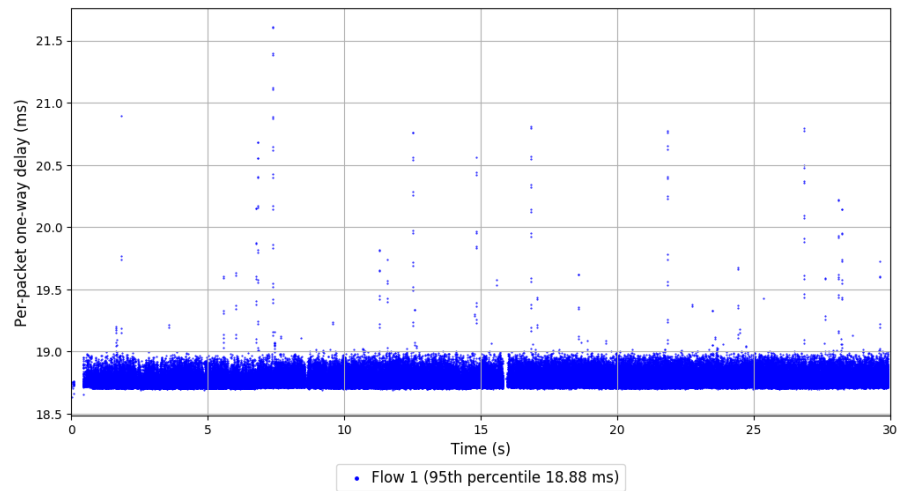
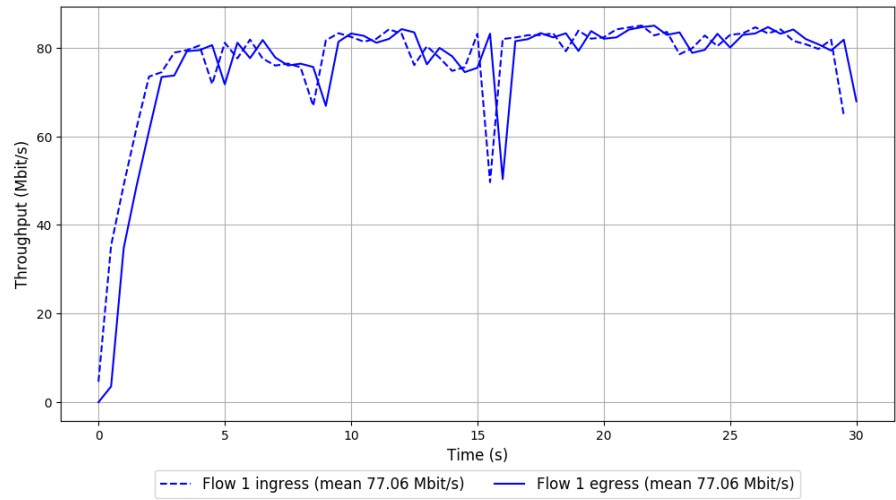
-- Flow 1:

Average throughput: 77.06 Mbit/s

95th percentile per-packet one-way delay: 18.878 ms

Loss rate: 0.01%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-06-05 06:24:38

End at: 2018-06-05 06:25:08

Local clock offset: 0.311 ms

Remote clock offset: -0.891 ms

Below is generated by plot.py at 2018-06-05 09:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.21 Mbit/s

95th percentile per-packet one-way delay: 18.130 ms

Loss rate: 0.00%

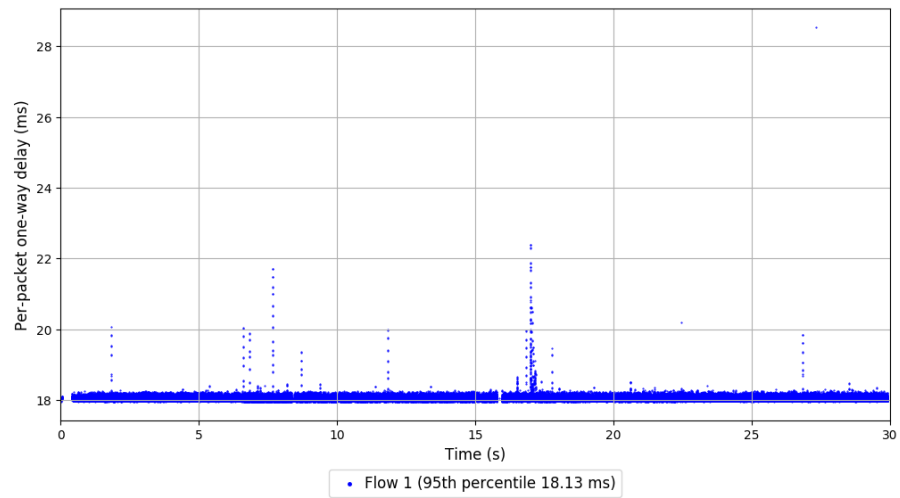
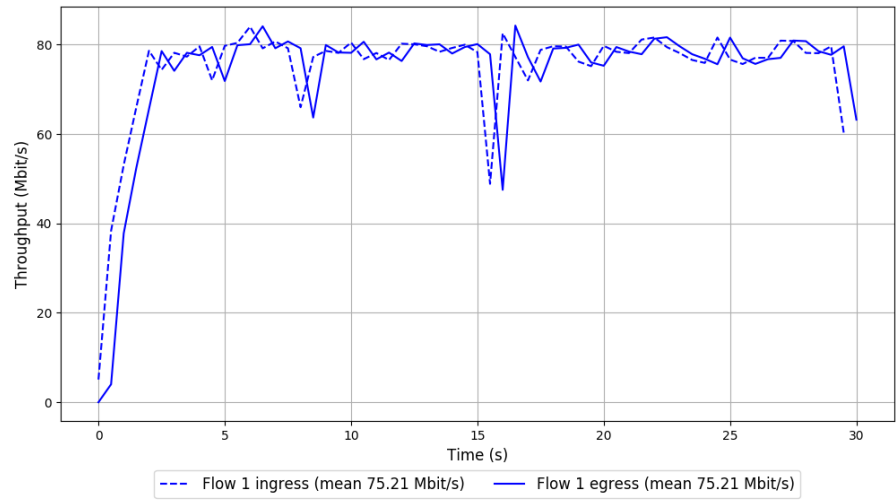
-- Flow 1:

Average throughput: 75.21 Mbit/s

95th percentile per-packet one-way delay: 18.130 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link

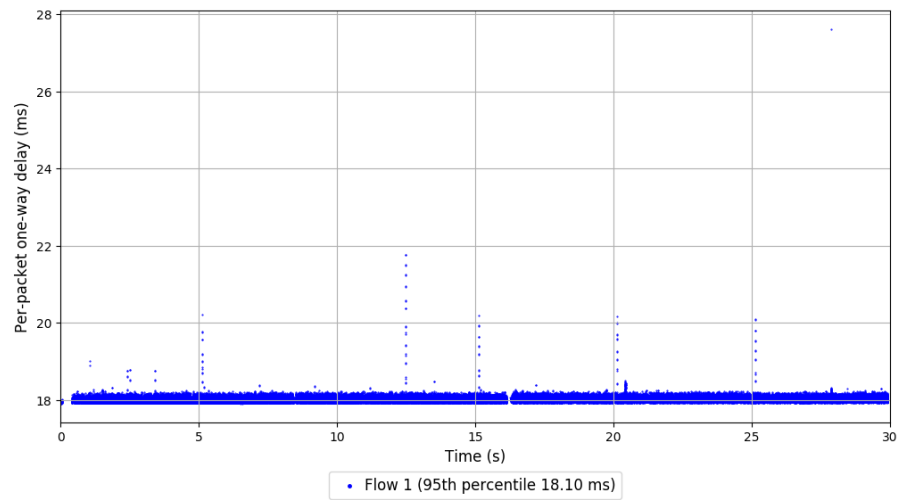
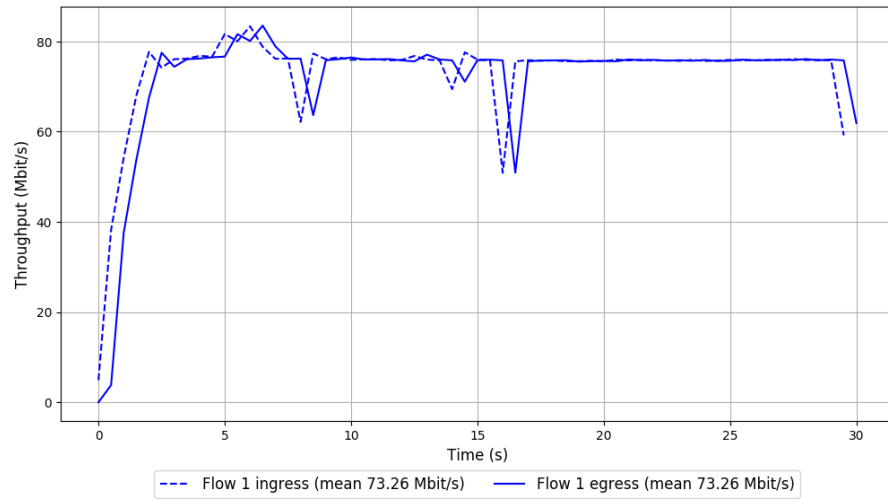


Run 7: Statistics of QUIC Cubic

Start at: 2018-06-05 06:48:27
End at: 2018-06-05 06:48:57
Local clock offset: 0.391 ms
Remote clock offset: -1.181 ms

Below is generated by plot.py at 2018-06-05 09:40:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 73.26 Mbit/s
95th percentile per-packet one-way delay: 18.096 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 73.26 Mbit/s
95th percentile per-packet one-way delay: 18.096 ms
Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link

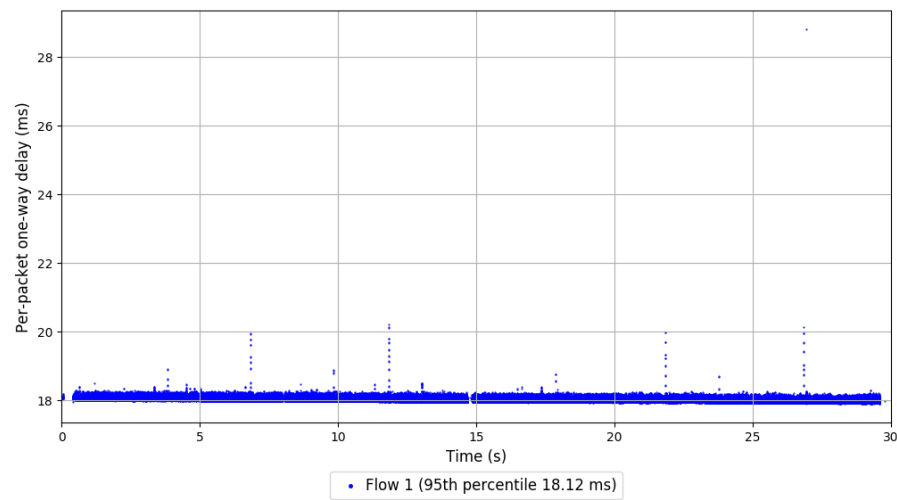
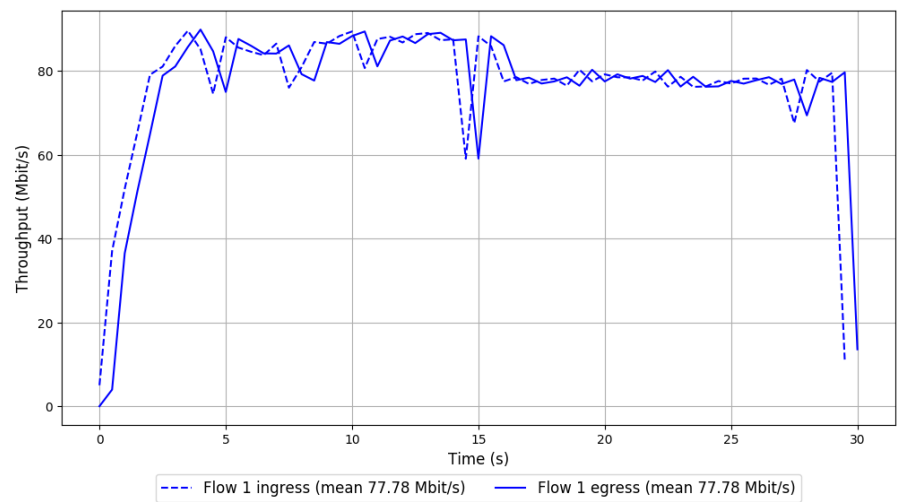


Run 8: Statistics of QUIC Cubic

Start at: 2018-06-05 07:12:11
End at: 2018-06-05 07:12:41
Local clock offset: 0.307 ms
Remote clock offset: -1.091 ms

Below is generated by plot.py at 2018-06-05 09:40:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.78 Mbit/s
95th percentile per-packet one-way delay: 18.125 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 77.78 Mbit/s
95th percentile per-packet one-way delay: 18.125 ms
Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-06-05 07:36:01

End at: 2018-06-05 07:36:31

Local clock offset: 0.075 ms

Remote clock offset: 0.868 ms

Below is generated by plot.py at 2018-06-05 09:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.64 Mbit/s

95th percentile per-packet one-way delay: 18.879 ms

Loss rate: 0.00%

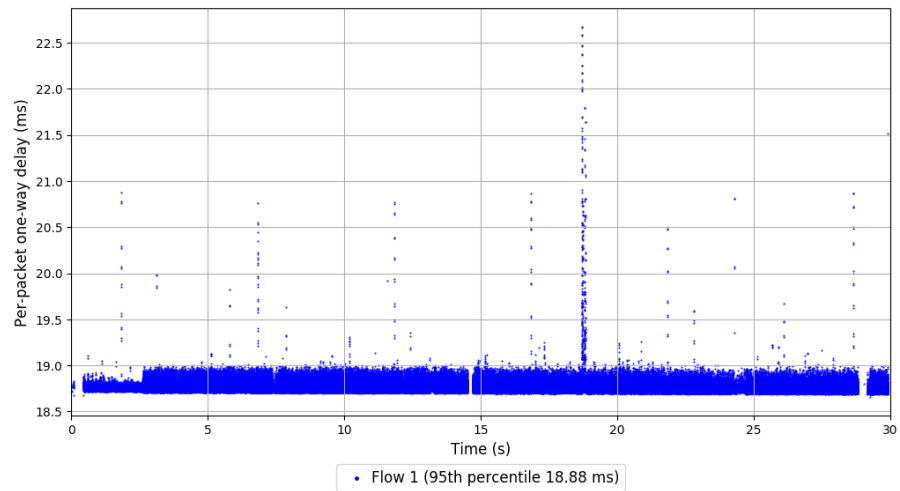
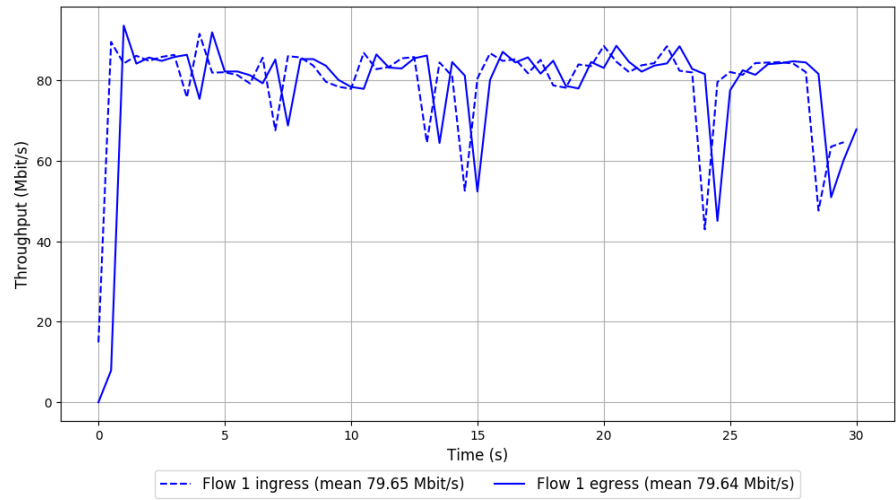
-- Flow 1:

Average throughput: 79.64 Mbit/s

95th percentile per-packet one-way delay: 18.879 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-06-05 07:59:49

End at: 2018-06-05 08:00:19

Local clock offset: 0.07 ms

Remote clock offset: 0.185 ms

Below is generated by plot.py at 2018-06-05 09:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.58 Mbit/s

95th percentile per-packet one-way delay: 18.819 ms

Loss rate: 0.01%

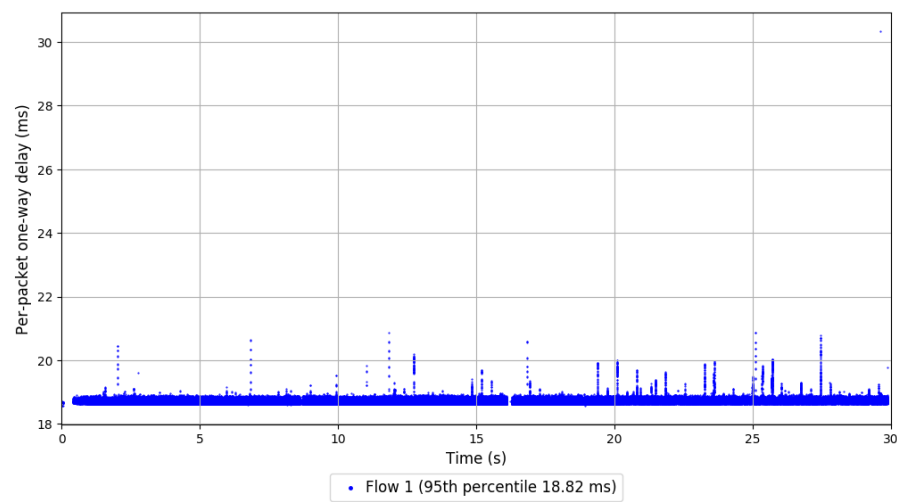
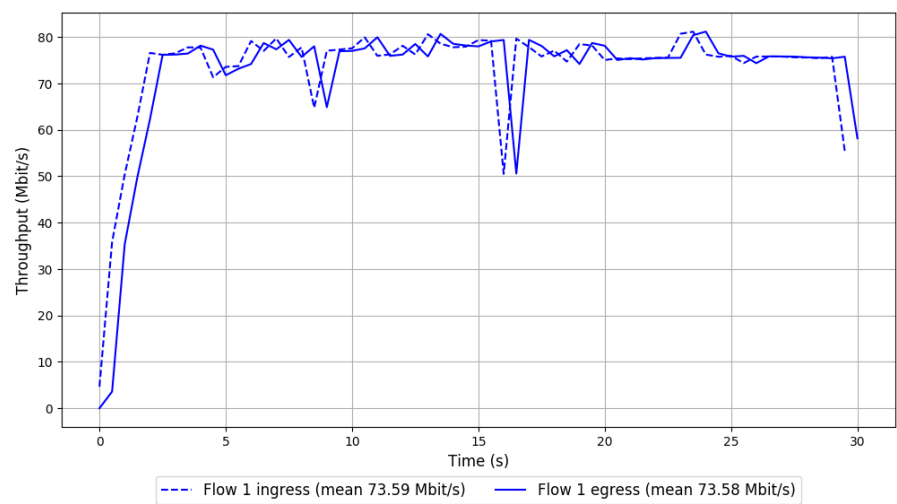
-- Flow 1:

Average throughput: 73.58 Mbit/s

95th percentile per-packet one-way delay: 18.819 ms

Loss rate: 0.01%

Run 10: Report of QUIC Cubic — Data Link

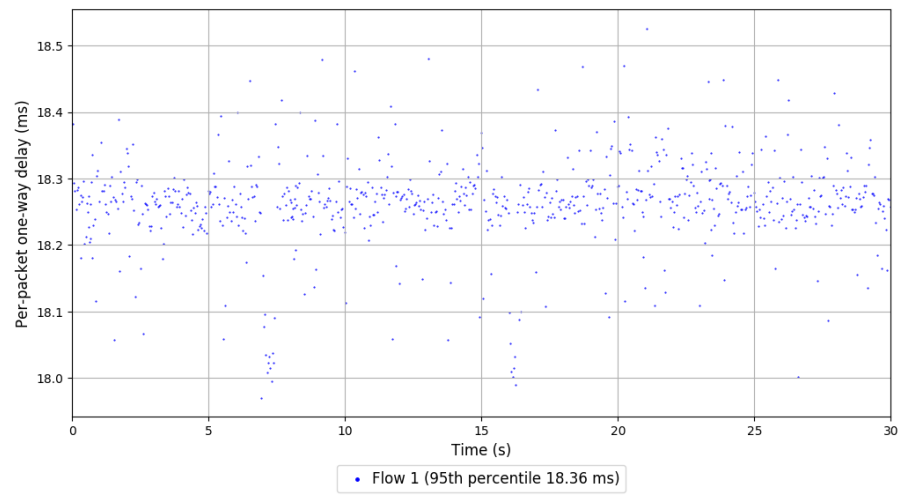
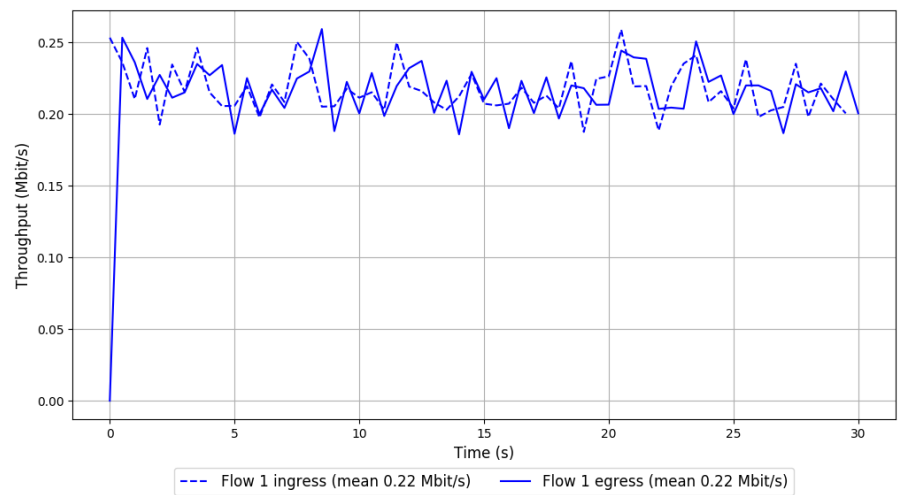


```
Run 1: Statistics of SCReAM

Start at: 2018-06-05 04:31:24
End at: 2018-06-05 04:31:54
Local clock offset: 0.451 ms
Remote clock offset: 0.262 ms

# Below is generated by plot.py at 2018-06-05 09:40:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.362 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.362 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-06-05 04:55:10

End at: 2018-06-05 04:55:40

Local clock offset: 0.385 ms

Remote clock offset: 0.434 ms

Below is generated by plot.py at 2018-06-05 09:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.418 ms

Loss rate: 0.00%

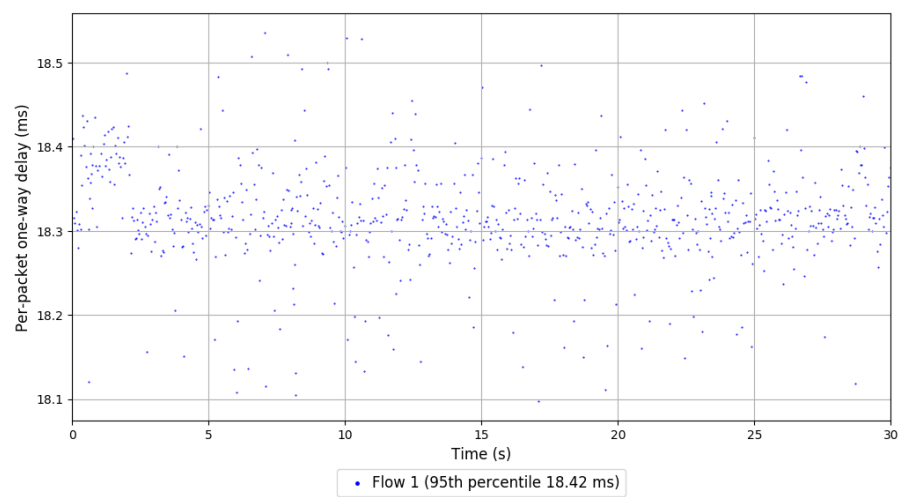
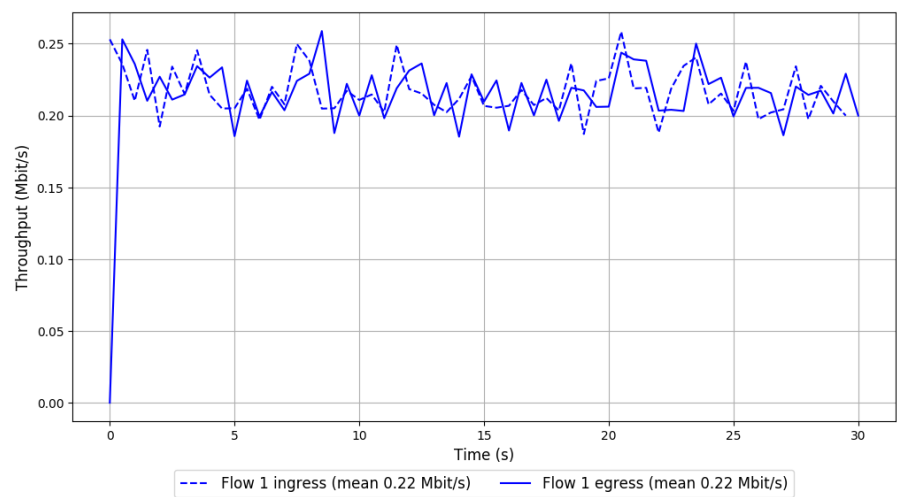
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.418 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-06-05 05:18:54

End at: 2018-06-05 05:19:24

Local clock offset: 0.185 ms

Remote clock offset: 0.153 ms

Below is generated by plot.py at 2018-06-05 09:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.328 ms

Loss rate: 0.00%

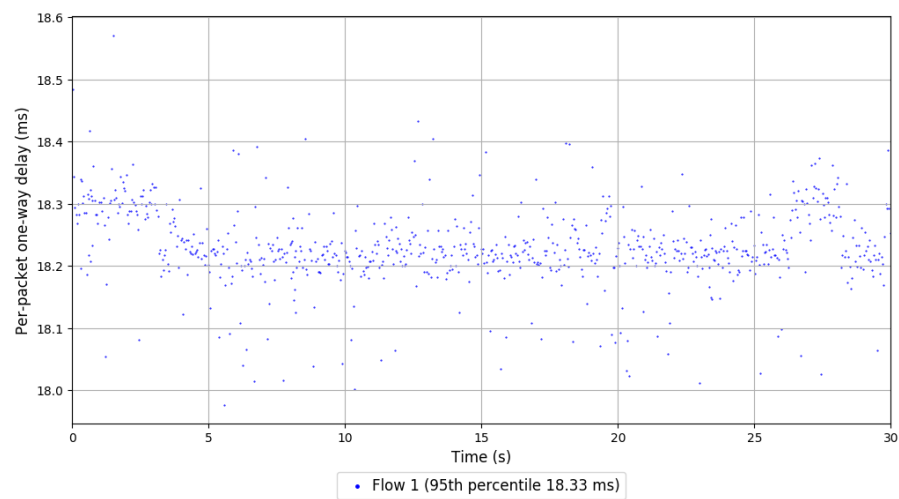
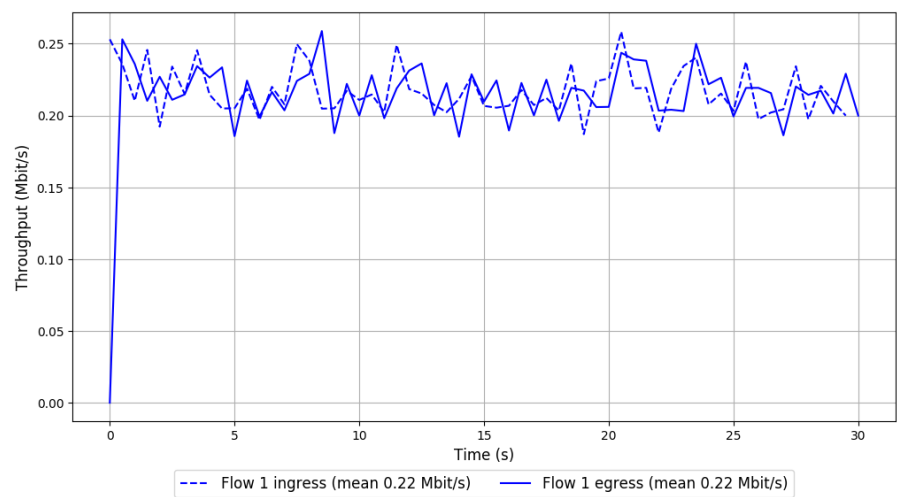
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.328 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-06-05 05:42:53

End at: 2018-06-05 05:43:23

Local clock offset: 0.208 ms

Remote clock offset: 0.155 ms

Below is generated by plot.py at 2018-06-05 09:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.441 ms

Loss rate: 0.00%

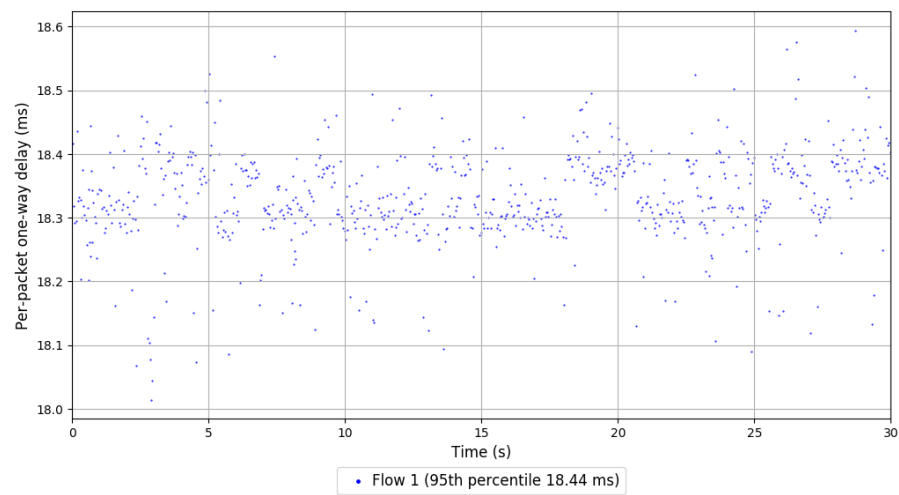
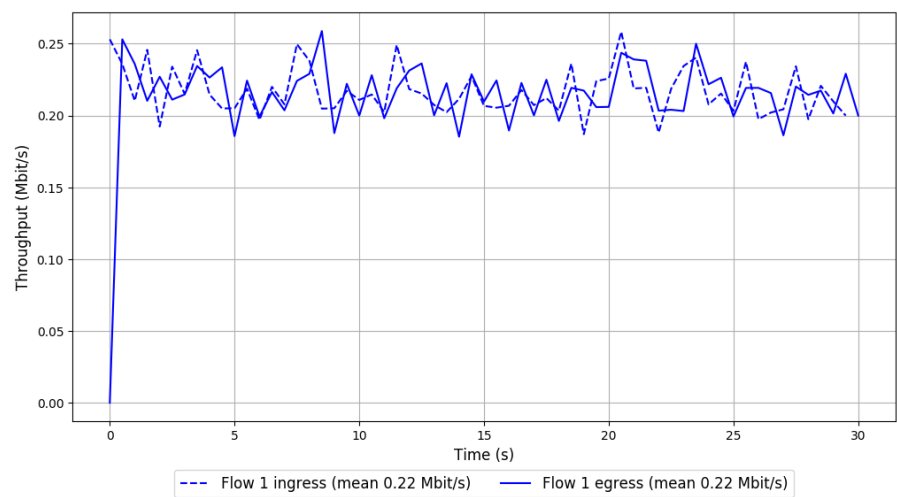
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.441 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

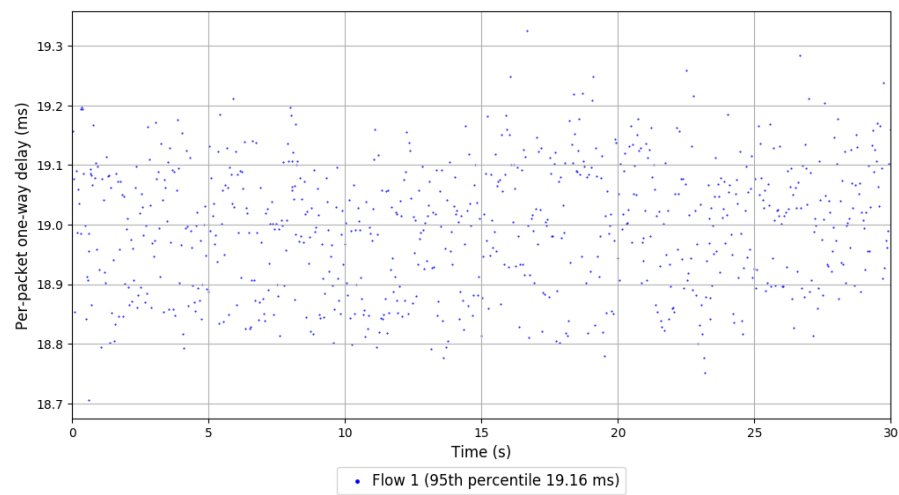
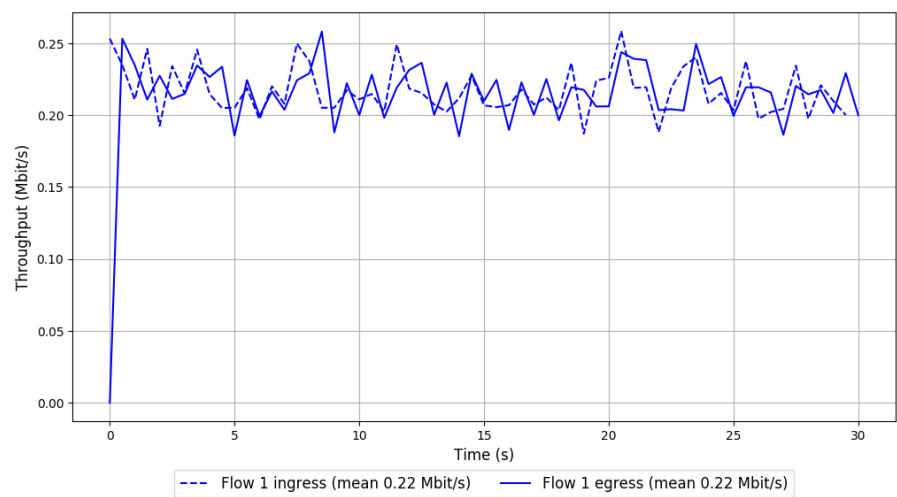


Run 5: Statistics of SCReAM

Start at: 2018-06-05 06:06:41
End at: 2018-06-05 06:07:11
Local clock offset: 0.38 ms
Remote clock offset: -0.193 ms

Below is generated by plot.py at 2018-06-05 09:40:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.162 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.162 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

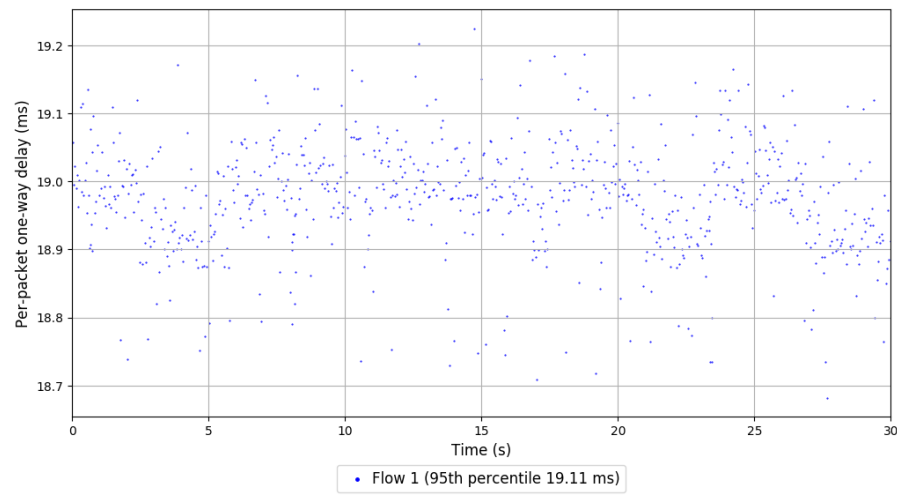
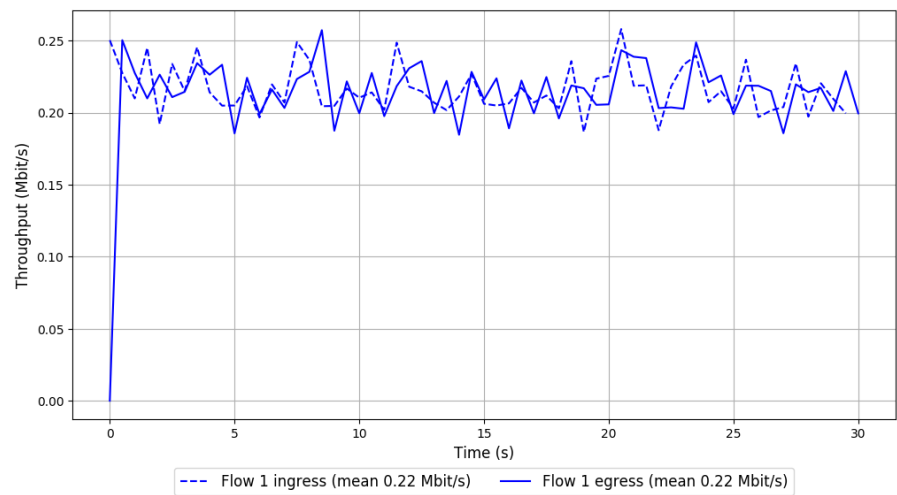


Run 6: Statistics of SCReAM

Start at: 2018-06-05 06:30:32
End at: 2018-06-05 06:31:02
Local clock offset: 0.401 ms
Remote clock offset: -0.972 ms

Below is generated by plot.py at 2018-06-05 09:40:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.112 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.112 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

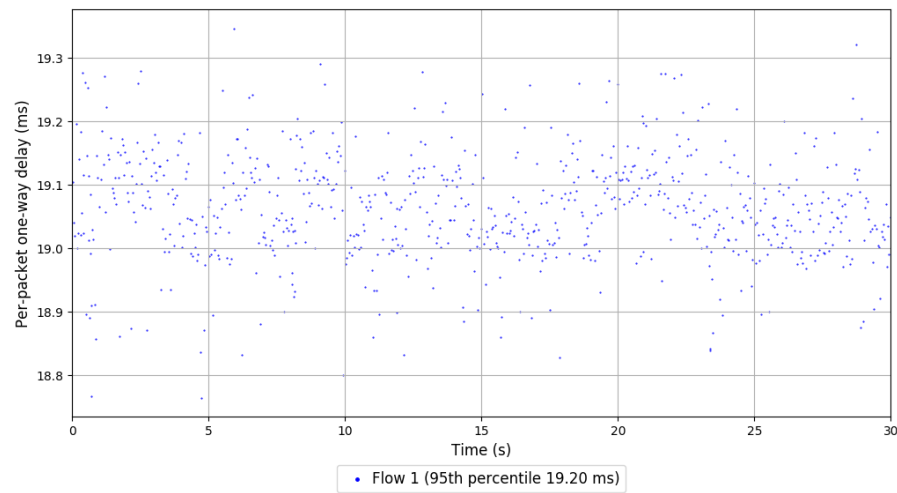
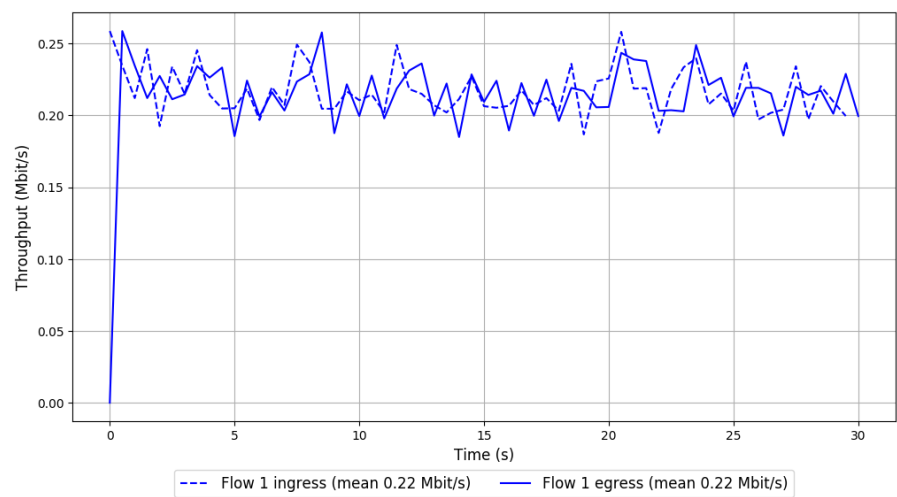


Run 7: Statistics of SCReAM

Start at: 2018-06-05 06:54:20
End at: 2018-06-05 06:54:50
Local clock offset: 0.298 ms
Remote clock offset: -1.305 ms

Below is generated by plot.py at 2018-06-05 09:40:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.202 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.202 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

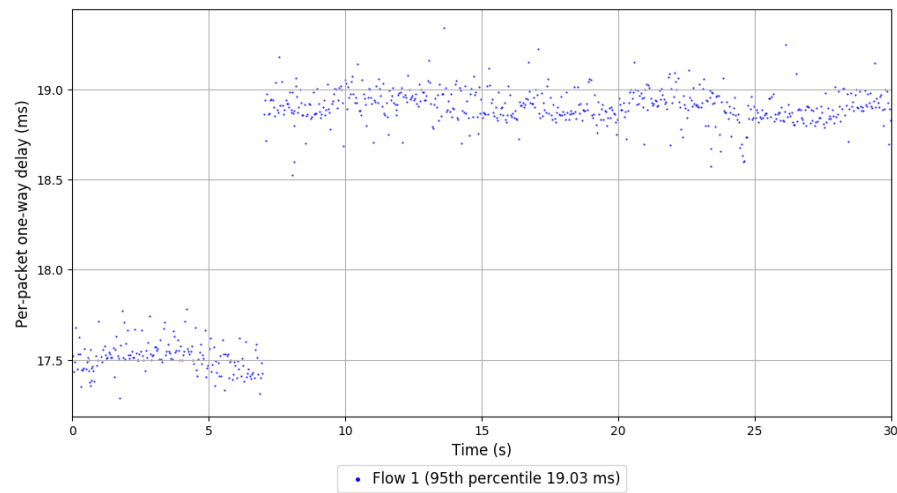
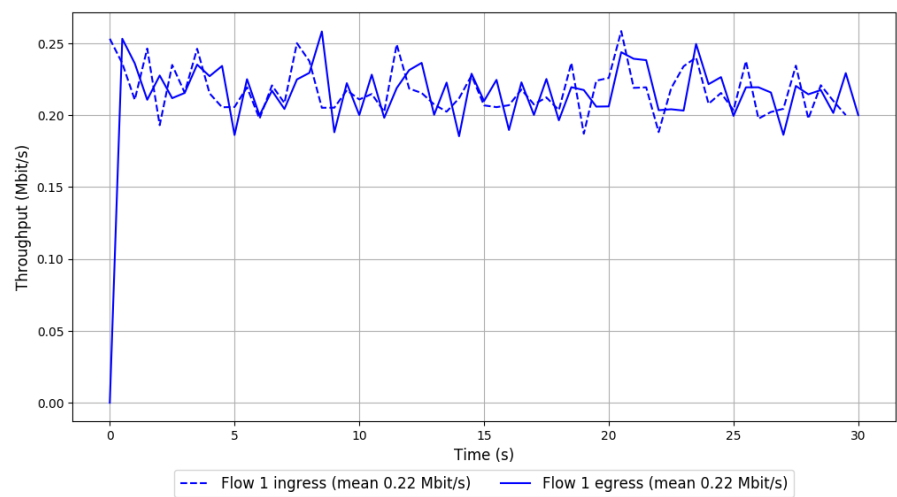


Run 8: Statistics of SReAM

Start at: 2018-06-05 07:18:04
End at: 2018-06-05 07:18:34
Local clock offset: 0.387 ms
Remote clock offset: -0.213 ms

Below is generated by plot.py at 2018-06-05 09:40:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.030 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.030 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-06-05 07:41:55

End at: 2018-06-05 07:42:25

Local clock offset: 0.018 ms

Remote clock offset: 1.071 ms

Below is generated by plot.py at 2018-06-05 09:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.820 ms

Loss rate: 0.00%

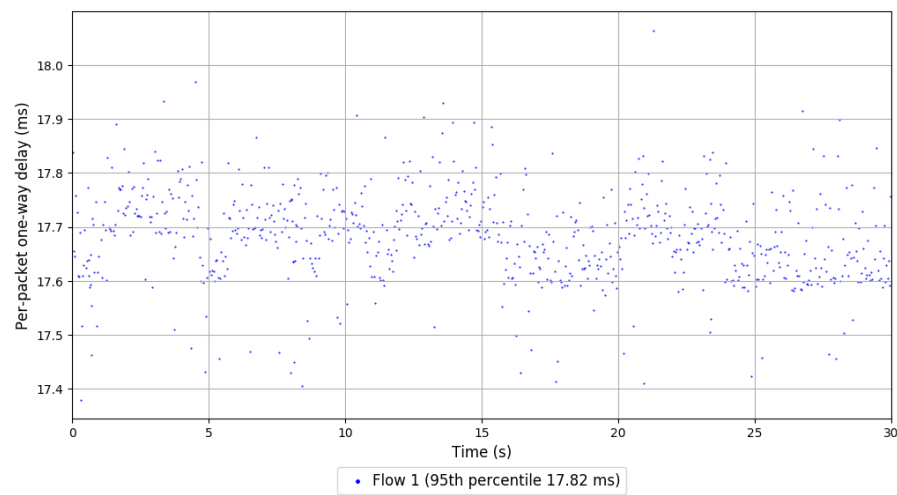
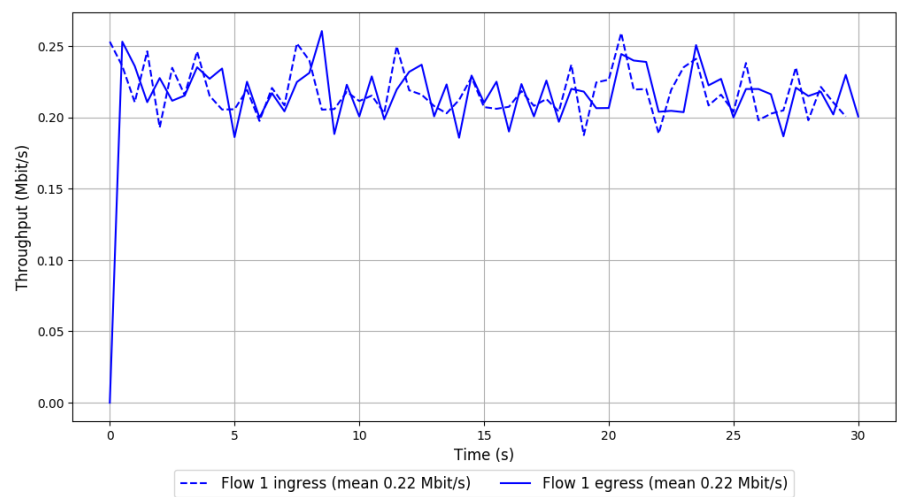
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.820 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-06-05 08:05:43

End at: 2018-06-05 08:06:13

Local clock offset: 0.047 ms

Remote clock offset: 0.144 ms

Below is generated by plot.py at 2018-06-05 09:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.182 ms

Loss rate: 0.00%

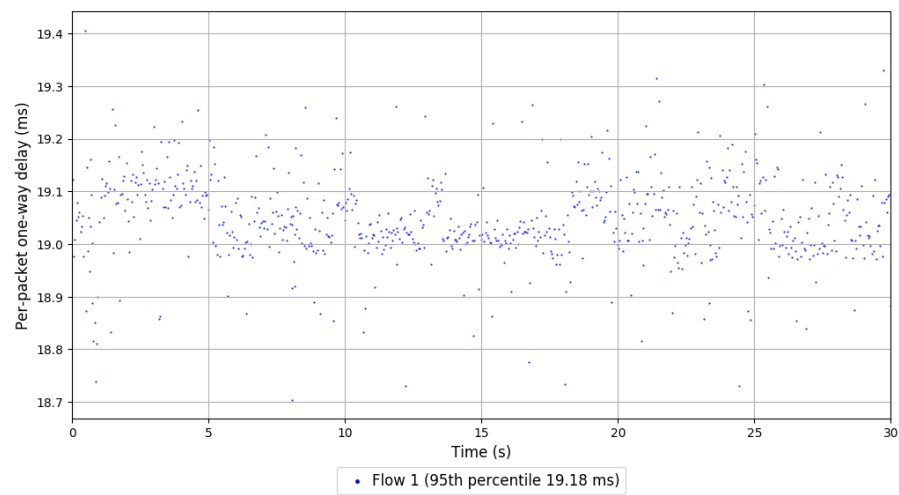
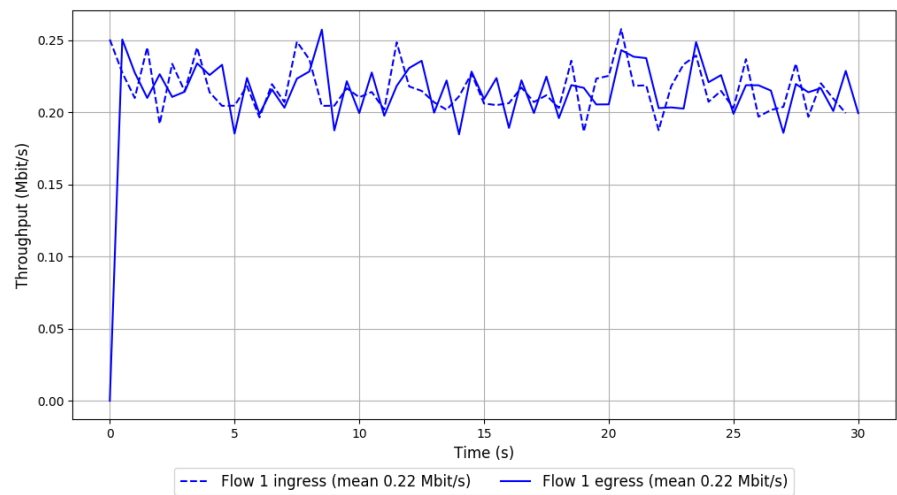
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.182 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-06-05 04:19:42

End at: 2018-06-05 04:20:12

Local clock offset: 0.421 ms

Remote clock offset: 0.549 ms

Below is generated by plot.py at 2018-06-05 09:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.79 Mbit/s

95th percentile per-packet one-way delay: 20.584 ms

Loss rate: 0.12%

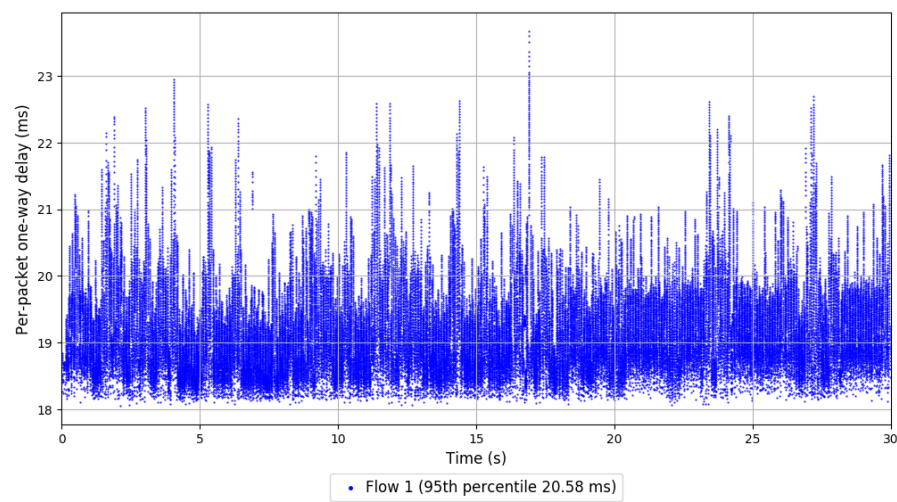
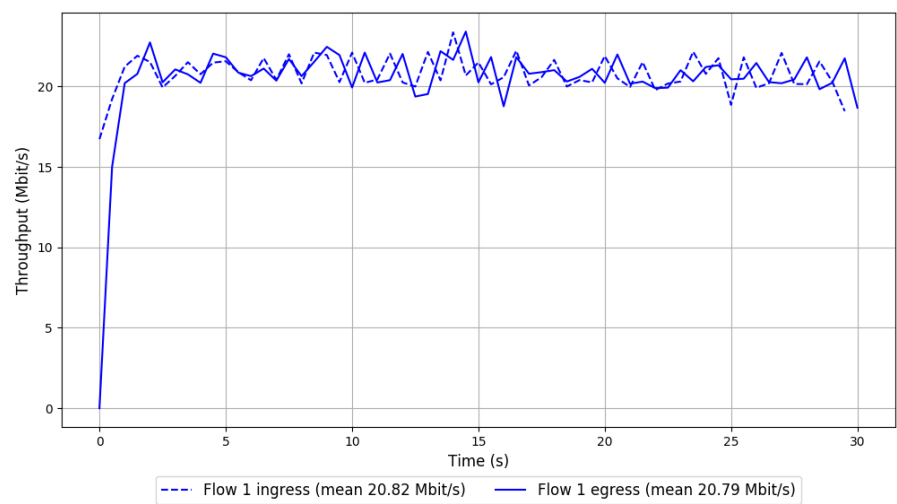
-- Flow 1:

Average throughput: 20.79 Mbit/s

95th percentile per-packet one-way delay: 20.584 ms

Loss rate: 0.12%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-06-05 04:43:32

End at: 2018-06-05 04:44:02

Local clock offset: 0.494 ms

Remote clock offset: 0.28 ms

Below is generated by plot.py at 2018-06-05 09:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.78 Mbit/s

95th percentile per-packet one-way delay: 21.182 ms

Loss rate: 0.31%

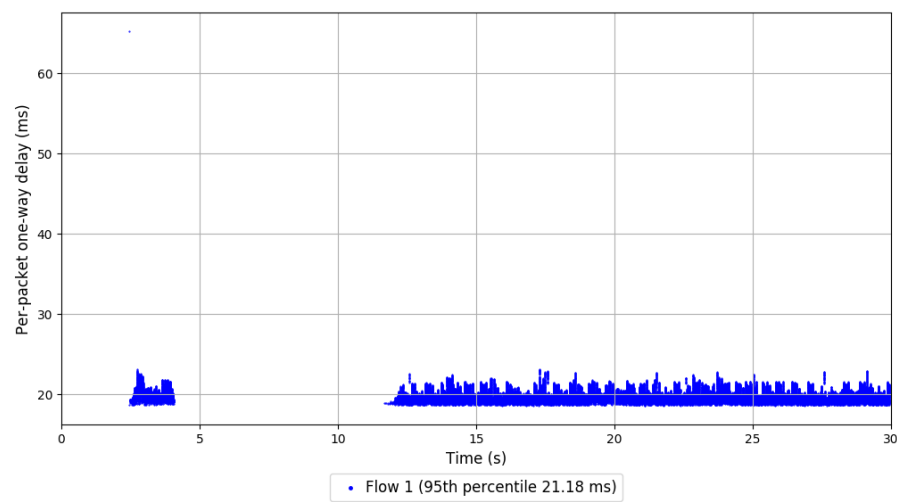
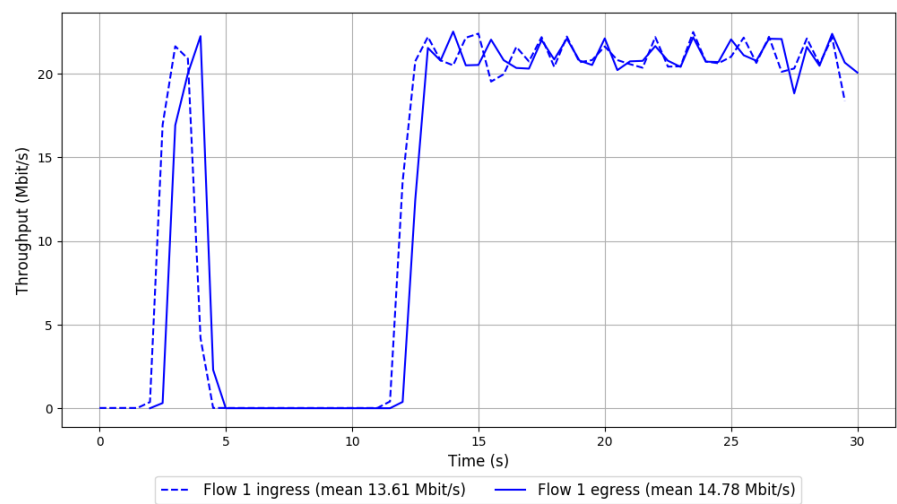
-- Flow 1:

Average throughput: 14.78 Mbit/s

95th percentile per-packet one-way delay: 21.182 ms

Loss rate: 0.31%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-06-05 05:07:11

End at: 2018-06-05 05:07:41

Local clock offset: 0.144 ms

Remote clock offset: 0.208 ms

Below is generated by plot.py at 2018-06-05 09:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.32 Mbit/s

95th percentile per-packet one-way delay: 21.658 ms

Loss rate: 0.00%

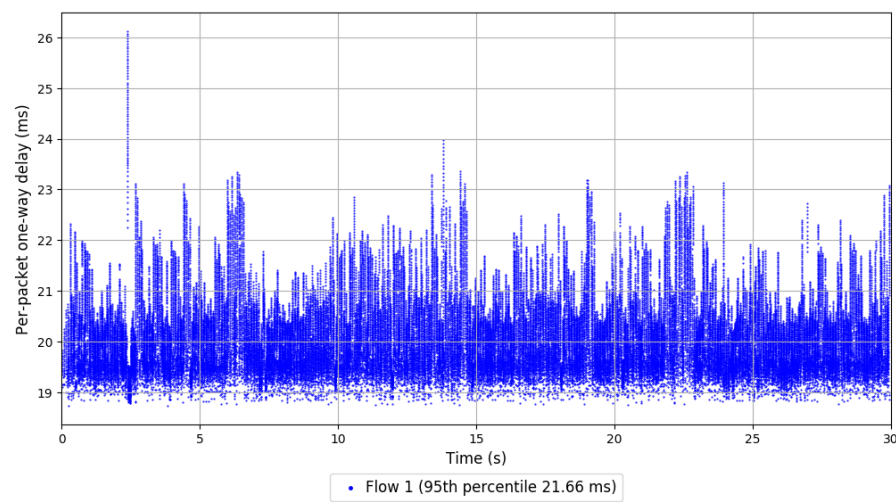
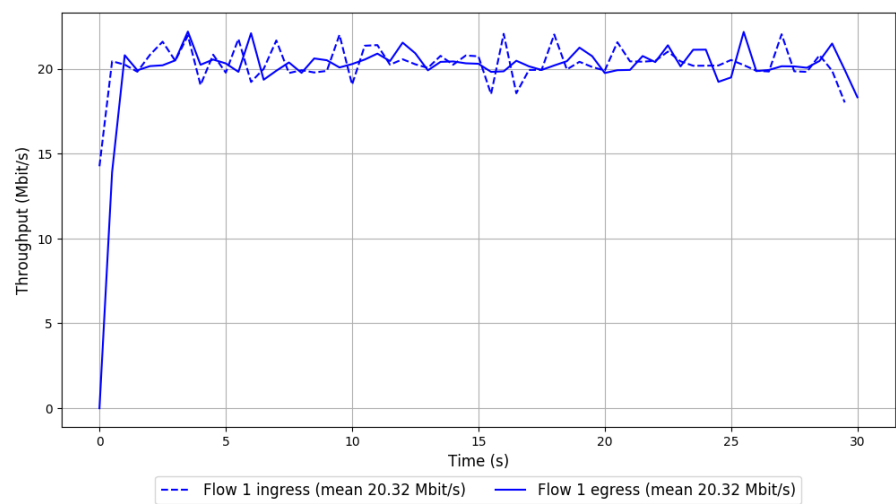
-- Flow 1:

Average throughput: 20.32 Mbit/s

95th percentile per-packet one-way delay: 21.658 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-06-05 05:31:04

End at: 2018-06-05 05:31:34

Local clock offset: 0.236 ms

Remote clock offset: 0.251 ms

Below is generated by plot.py at 2018-06-05 09:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.97 Mbit/s

95th percentile per-packet one-way delay: 20.949 ms

Loss rate: 0.03%

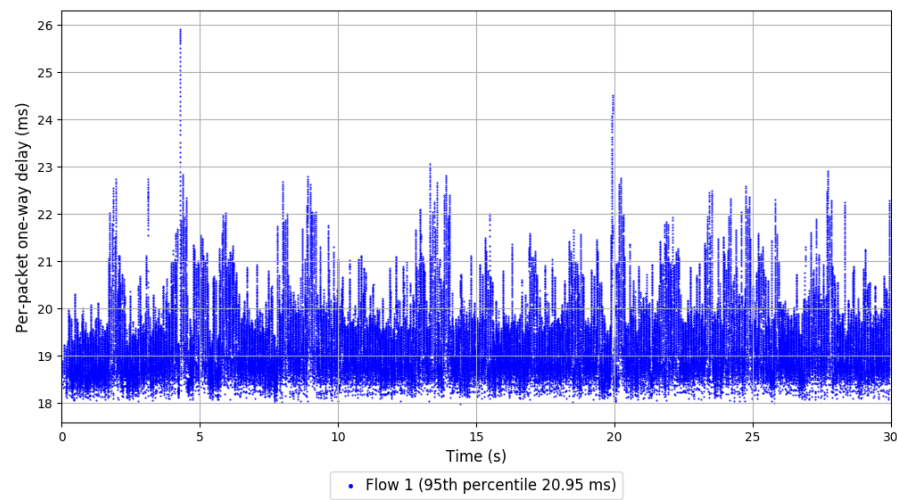
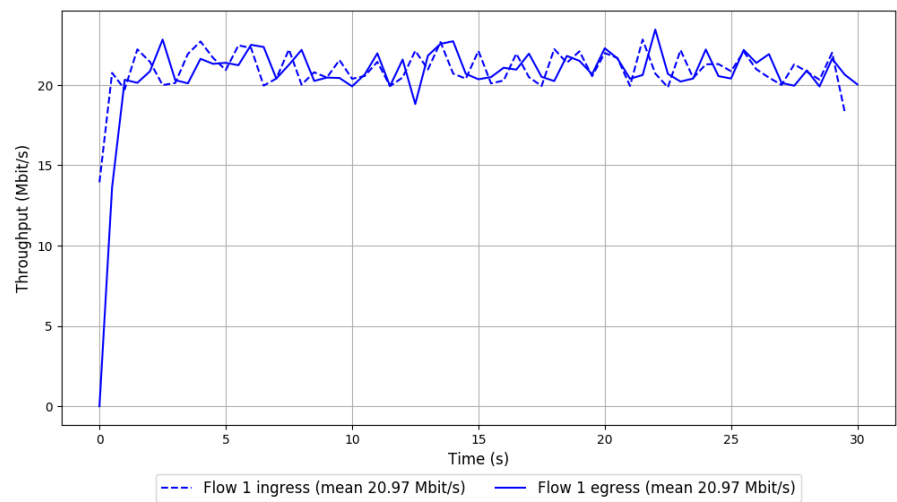
-- Flow 1:

Average throughput: 20.97 Mbit/s

95th percentile per-packet one-way delay: 20.949 ms

Loss rate: 0.03%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-06-05 05:54:58

End at: 2018-06-05 05:55:28

Local clock offset: 0.29 ms

Remote clock offset: 0.109 ms

Below is generated by plot.py at 2018-06-05 09:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.21 Mbit/s

95th percentile per-packet one-way delay: 21.261 ms

Loss rate: 0.04%

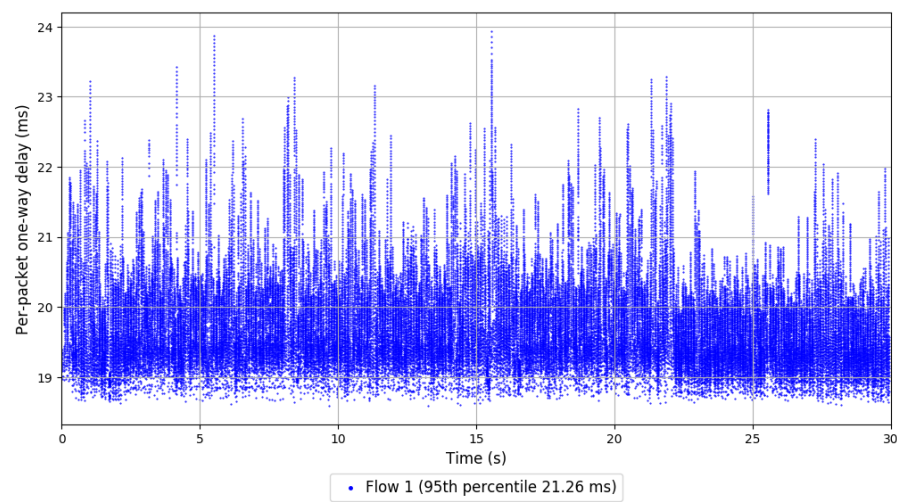
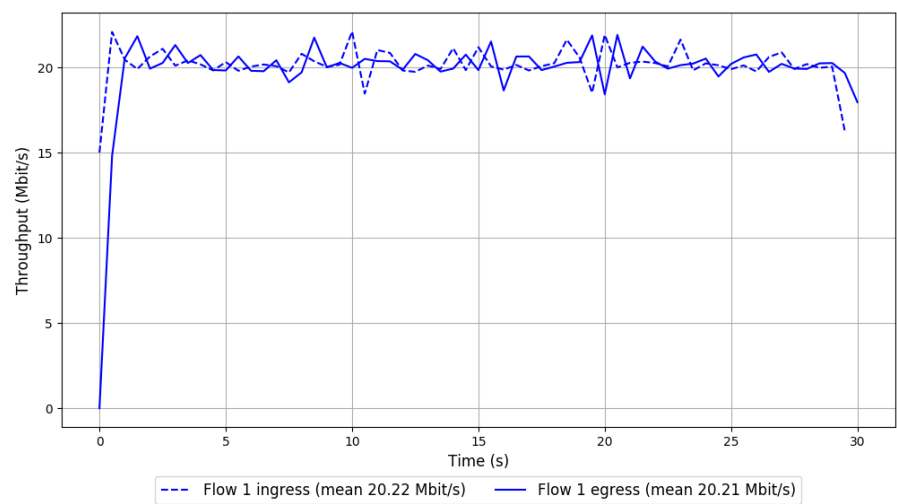
-- Flow 1:

Average throughput: 20.21 Mbit/s

95th percentile per-packet one-way delay: 21.261 ms

Loss rate: 0.04%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-06-05 06:18:52

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

Local clock offset: 0.28 ms

Remote clock offset: -0.73 ms

Below is generated by plot.py at 2018-06-05 09:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.18 Mbit/s

95th percentile per-packet one-way delay: 21.304 ms

Loss rate: 0.01%

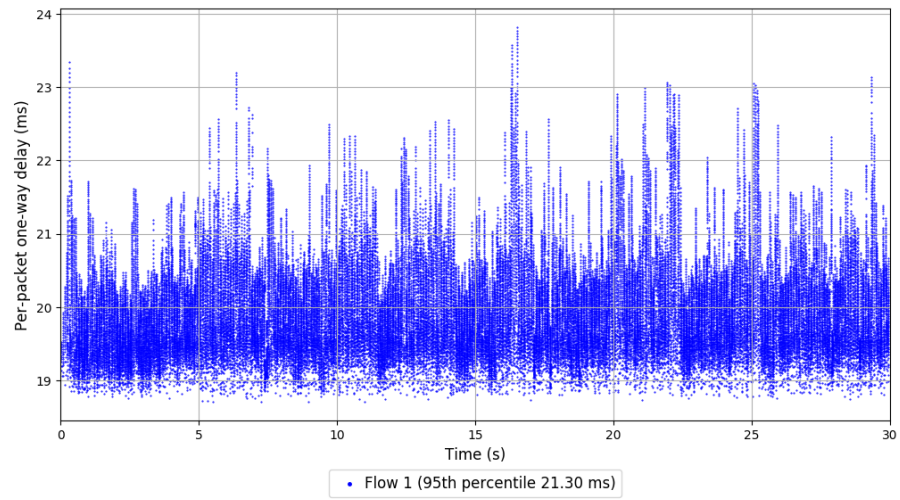
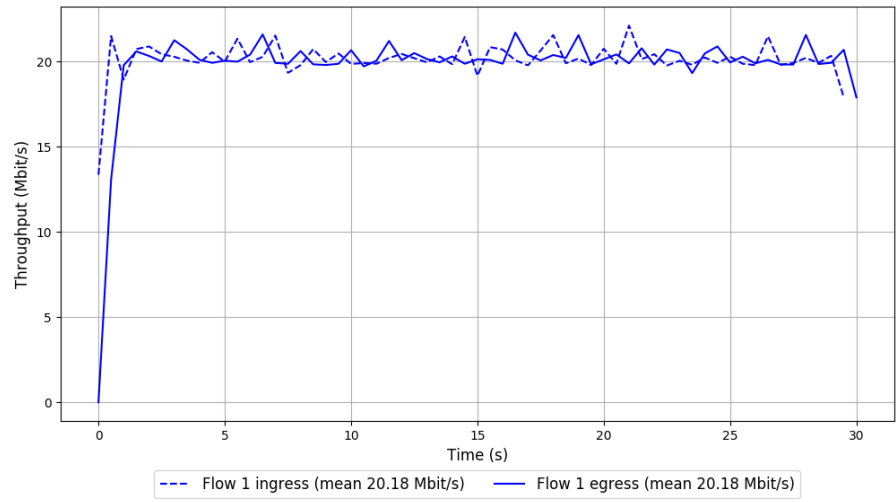
-- Flow 1:

Average throughput: 20.18 Mbit/s

95th percentile per-packet one-way delay: 21.304 ms

Loss rate: 0.01%

Run 6: Report of Sprout — Data Link

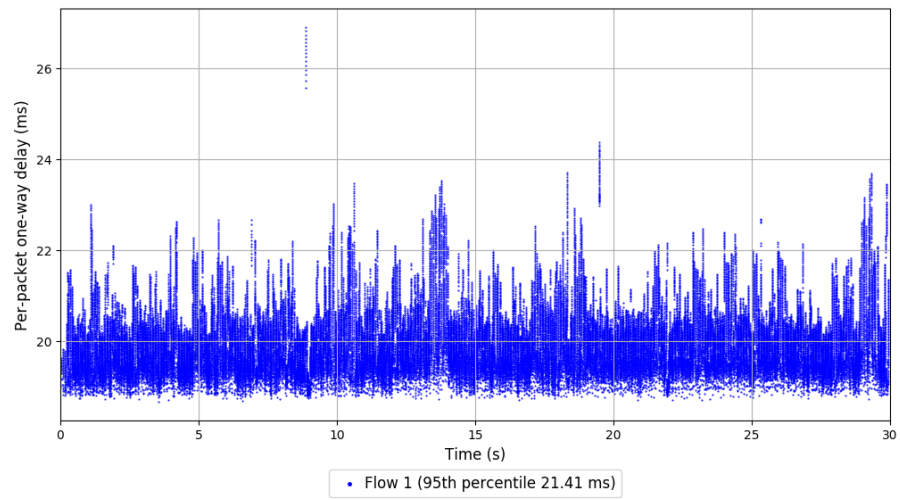
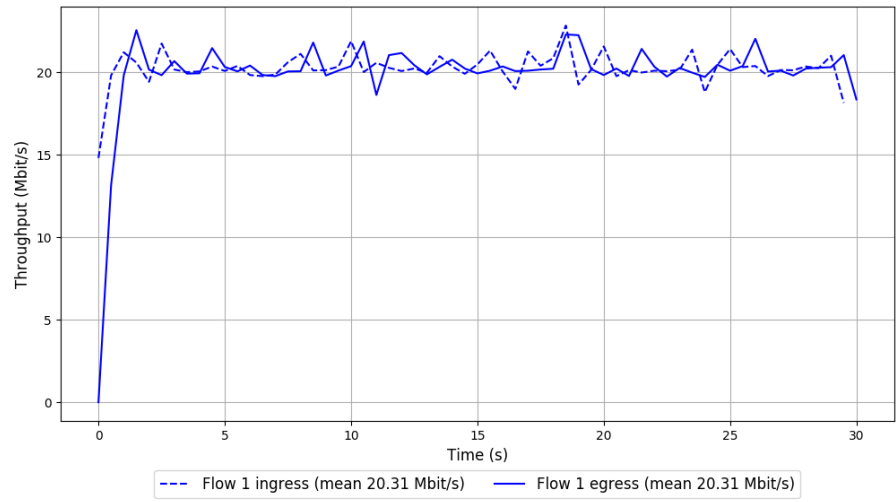


Run 7: Statistics of Sprout

Start at: 2018-06-05 06:42:37
End at: 2018-06-05 06:43:08
Local clock offset: 0.405 ms
Remote clock offset: -1.046 ms

Below is generated by plot.py at 2018-06-05 09:40:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.31 Mbit/s
95th percentile per-packet one-way delay: 21.411 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.31 Mbit/s
95th percentile per-packet one-way delay: 21.411 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

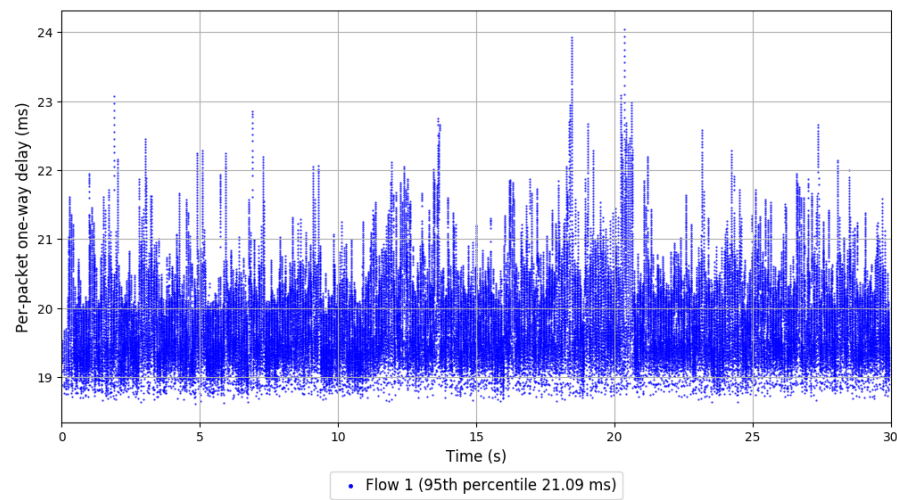
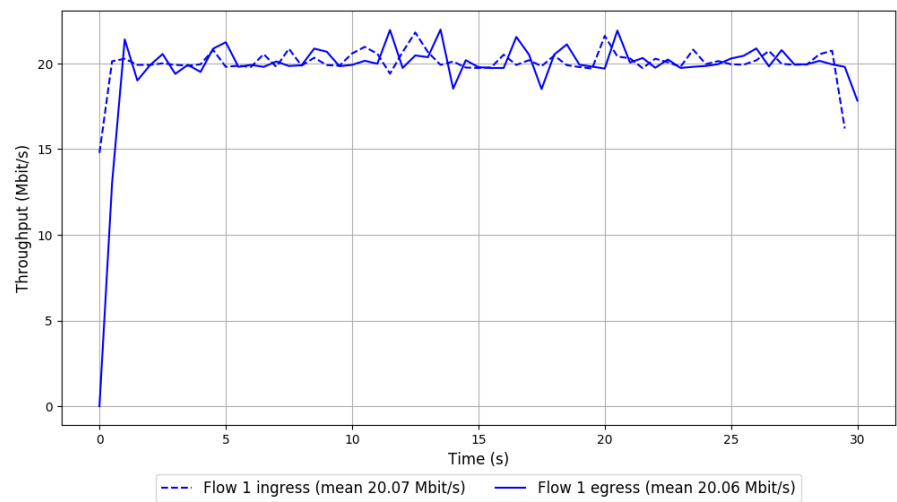


Run 8: Statistics of Sprout

Start at: 2018-06-05 07:06:25
End at: 2018-06-05 07:06:55
Local clock offset: 0.406 ms
Remote clock offset: -1.411 ms

Below is generated by plot.py at 2018-06-05 09:40:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.06 Mbit/s
95th percentile per-packet one-way delay: 21.089 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 20.06 Mbit/s
95th percentile per-packet one-way delay: 21.089 ms
Loss rate: 0.04%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-06-05 07:30:10

End at: 2018-06-05 07:30:40

Local clock offset: 0.131 ms

Remote clock offset: 0.658 ms

Below is generated by plot.py at 2018-06-05 09:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.50 Mbit/s

95th percentile per-packet one-way delay: 20.420 ms

Loss rate: 0.00%

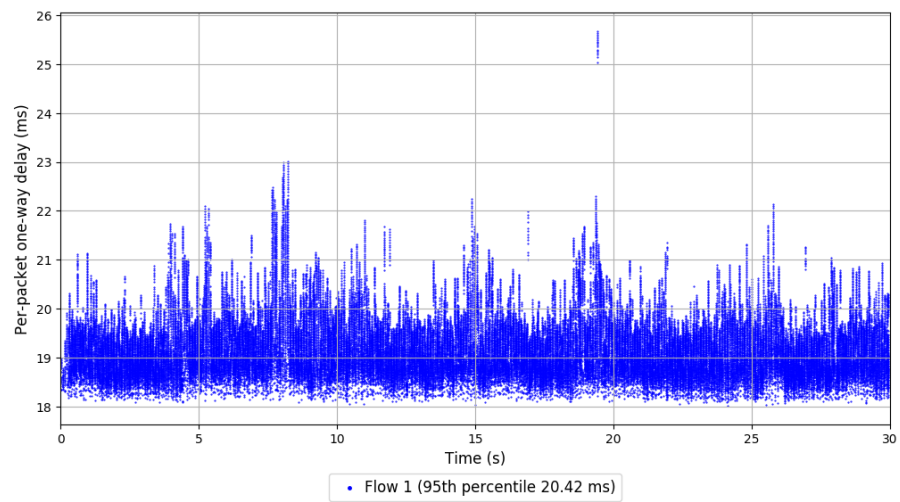
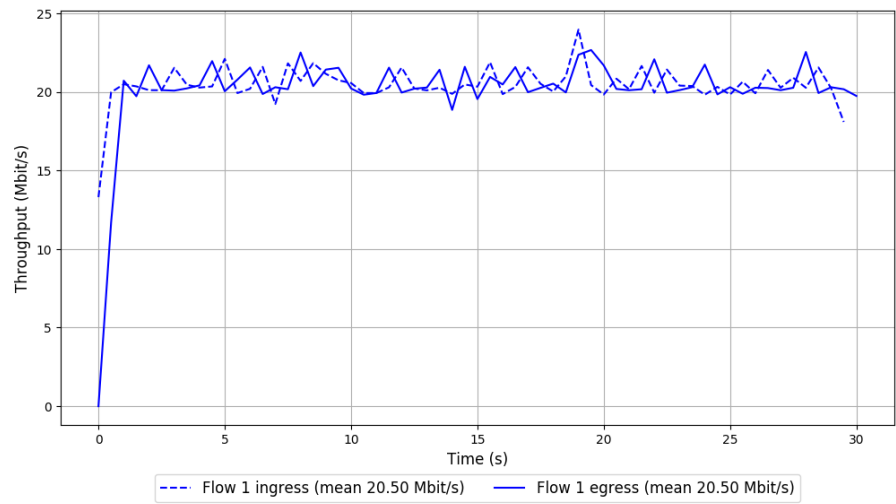
-- Flow 1:

Average throughput: 20.50 Mbit/s

95th percentile per-packet one-way delay: 20.420 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-06-05 07:54:01

End at: 2018-06-05 07:54:31

Local clock offset: 0.07 ms

Remote clock offset: 0.355 ms

Below is generated by plot.py at 2018-06-05 09:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.55 Mbit/s

95th percentile per-packet one-way delay: 20.196 ms

Loss rate: 0.01%

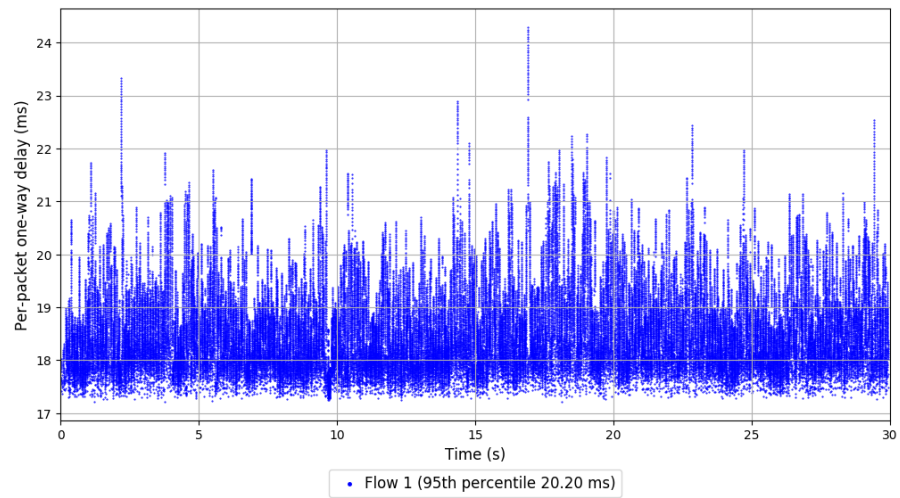
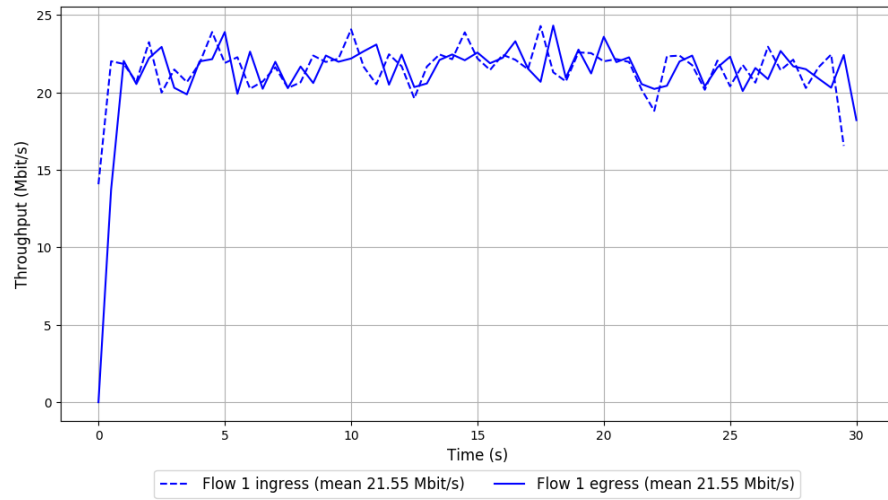
-- Flow 1:

Average throughput: 21.55 Mbit/s

95th percentile per-packet one-way delay: 20.196 ms

Loss rate: 0.01%

Run 10: Report of Sprout — Data Link

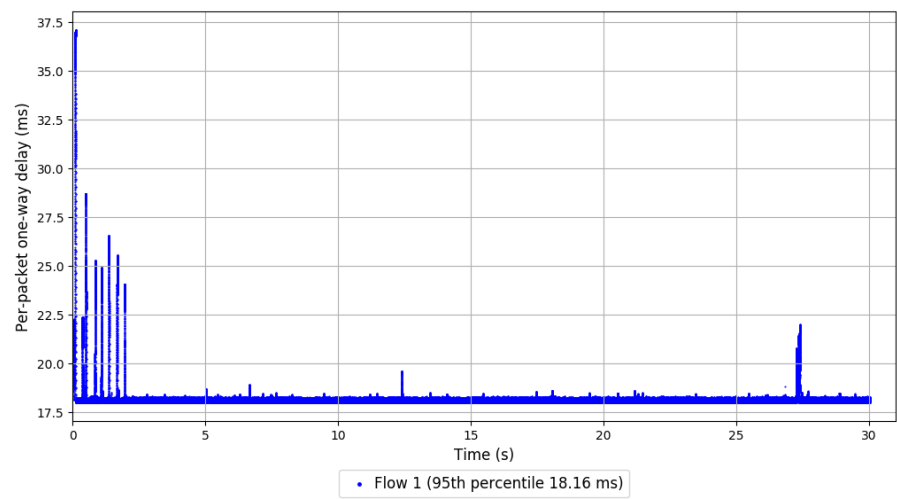
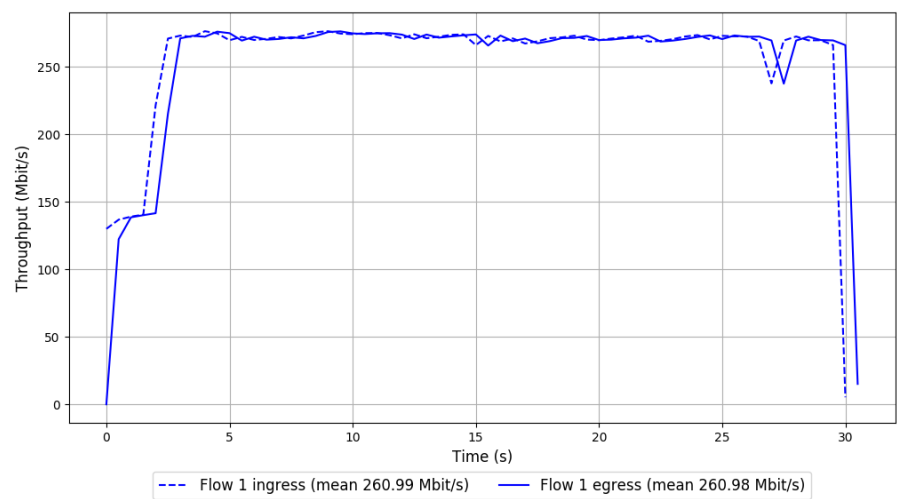


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-05 04:37:22
End at: 2018-06-05 04:37:52
Local clock offset: 0.377 ms
Remote clock offset: 0.208 ms

# Below is generated by plot.py at 2018-06-05 09:42:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 260.98 Mbit/s
95th percentile per-packet one-way delay: 18.157 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 260.98 Mbit/s
95th percentile per-packet one-way delay: 18.157 ms
Loss rate: 0.01%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-06-05 05:01:09

End at: 2018-06-05 05:01:39

Local clock offset: 0.297 ms

Remote clock offset: 0.302 ms

Below is generated by plot.py at 2018-06-05 09:42:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.71 Mbit/s

95th percentile per-packet one-way delay: 18.171 ms

Loss rate: 0.00%

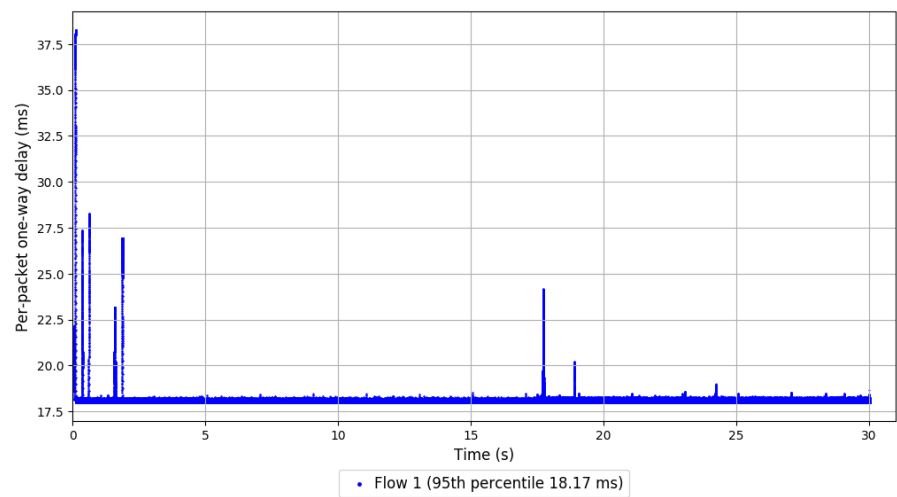
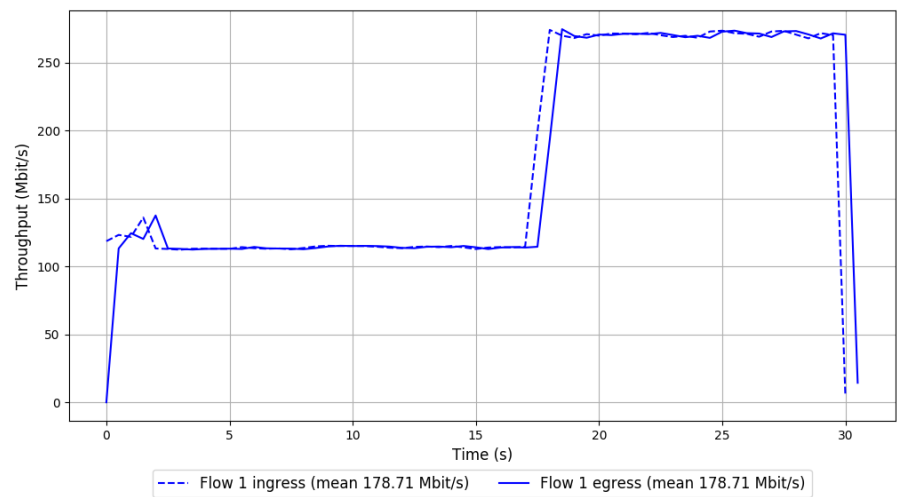
-- Flow 1:

Average throughput: 178.71 Mbit/s

95th percentile per-packet one-way delay: 18.171 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-06-05 05:24:52

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

Local clock offset: 0.213 ms

Remote clock offset: 0.285 ms

Below is generated by plot.py at 2018-06-05 09:42:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 268.62 Mbit/s

95th percentile per-packet one-way delay: 17.399 ms

Loss rate: 0.01%

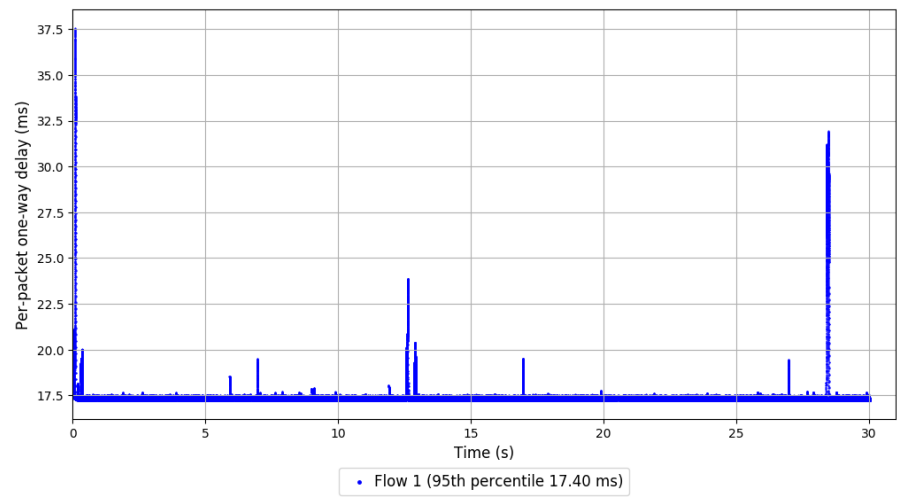
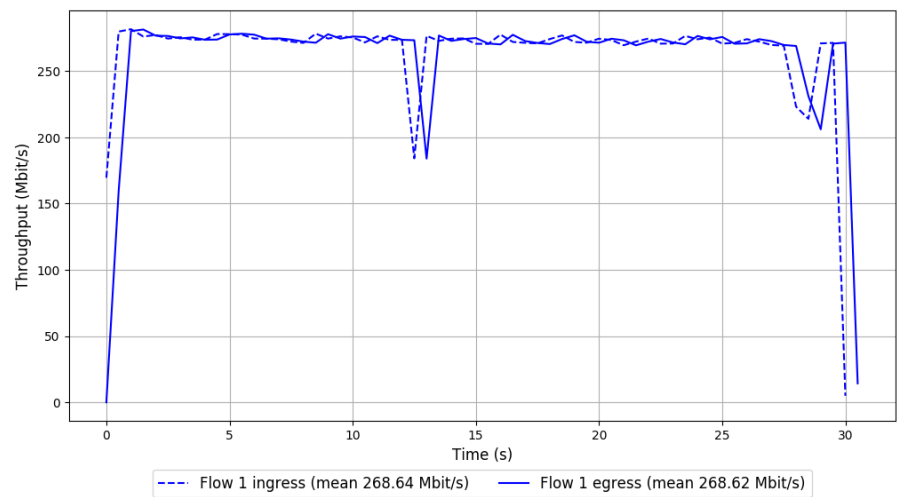
-- Flow 1:

Average throughput: 268.62 Mbit/s

95th percentile per-packet one-way delay: 17.399 ms

Loss rate: 0.01%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-06-05 05:48:46

End at: 2018-06-05 05:49:16

Local clock offset: 0.222 ms

Remote clock offset: 0.119 ms

Below is generated by plot.py at 2018-06-05 09:42:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.90 Mbit/s

95th percentile per-packet one-way delay: 18.084 ms

Loss rate: 0.00%

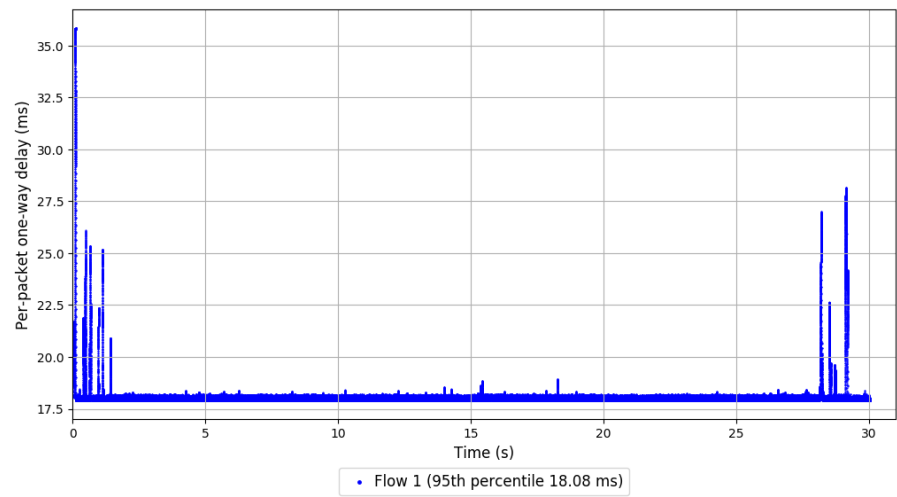
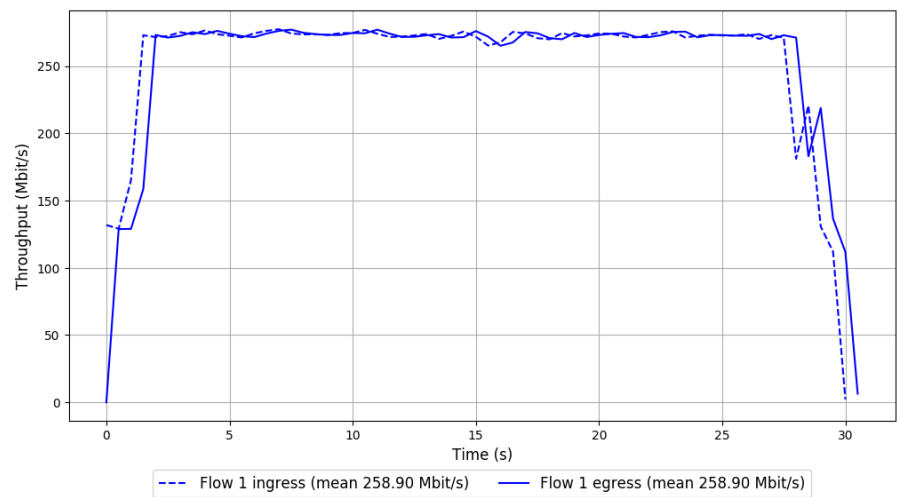
-- Flow 1:

Average throughput: 258.90 Mbit/s

95th percentile per-packet one-way delay: 18.084 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-06-05 06:12:39

End at: 2018-06-05 06:13:09

Local clock offset: 0.282 ms

Remote clock offset: -0.476 ms

Below is generated by plot.py at 2018-06-05 09:45:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.50 Mbit/s

95th percentile per-packet one-way delay: 18.312 ms

Loss rate: 0.00%

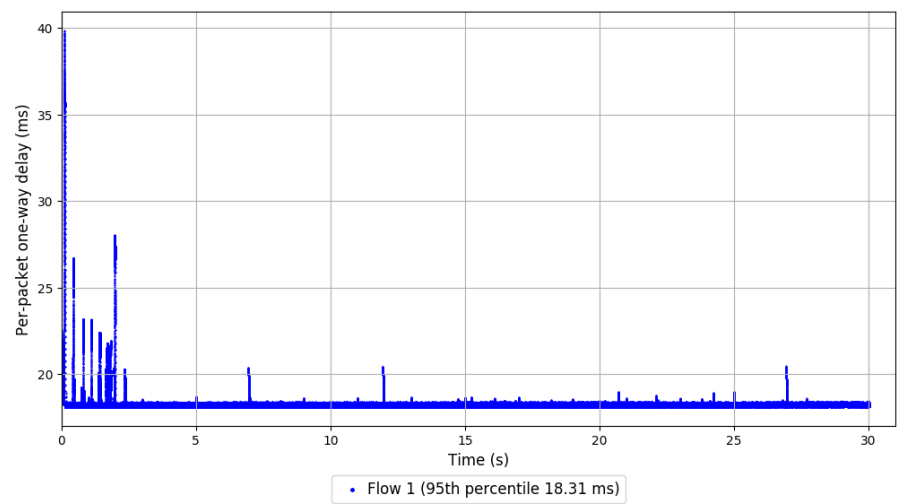
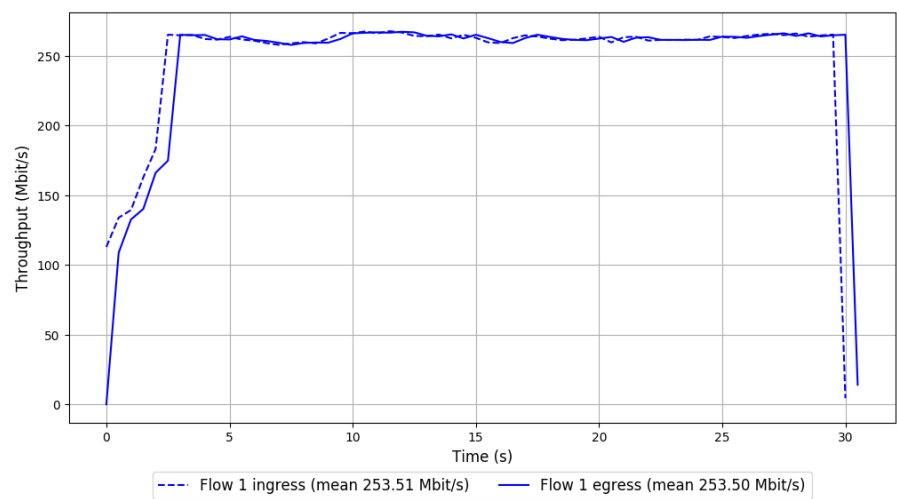
-- Flow 1:

Average throughput: 253.50 Mbit/s

95th percentile per-packet one-way delay: 18.312 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-06-05 06:36:27

End at: 2018-06-05 06:36:57

Local clock offset: 0.396 ms

Remote clock offset: -1.039 ms

Below is generated by plot.py at 2018-06-05 09:45:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 244.49 Mbit/s

95th percentile per-packet one-way delay: 17.400 ms

Loss rate: 0.00%

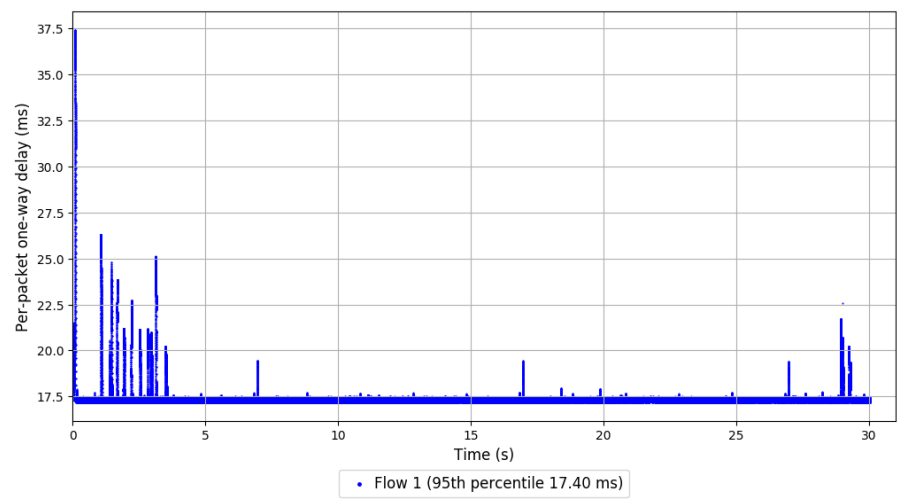
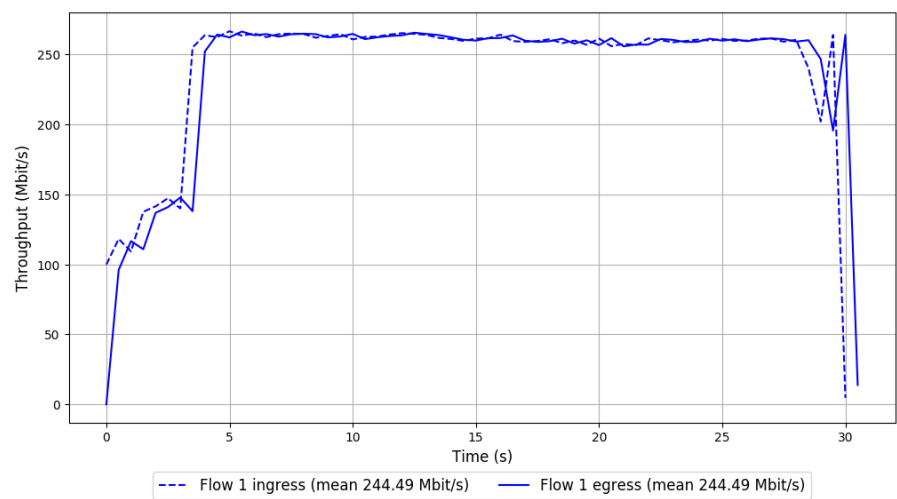
-- Flow 1:

Average throughput: 244.49 Mbit/s

95th percentile per-packet one-way delay: 17.400 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-06-05 07:00:14

End at: 2018-06-05 07:00:44

Local clock offset: 0.408 ms

Remote clock offset: -1.314 ms

Below is generated by plot.py at 2018-06-05 09:45:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.55 Mbit/s

95th percentile per-packet one-way delay: 18.852 ms

Loss rate: 0.00%

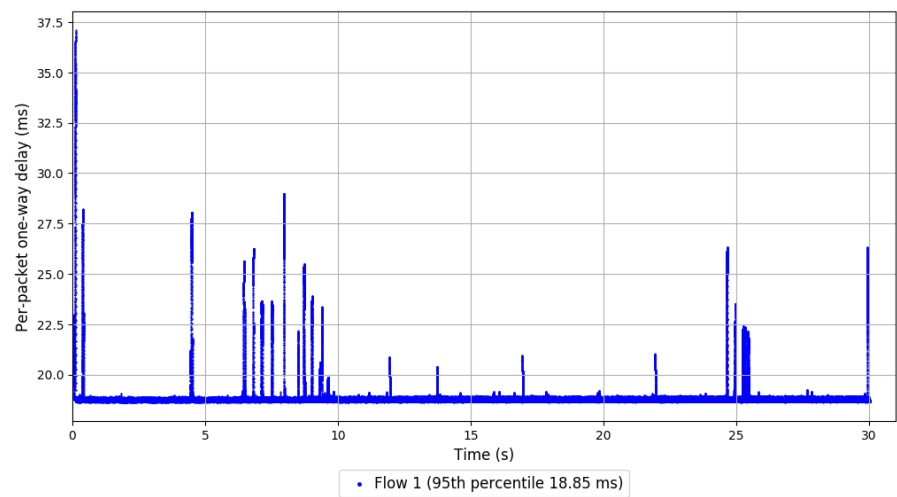
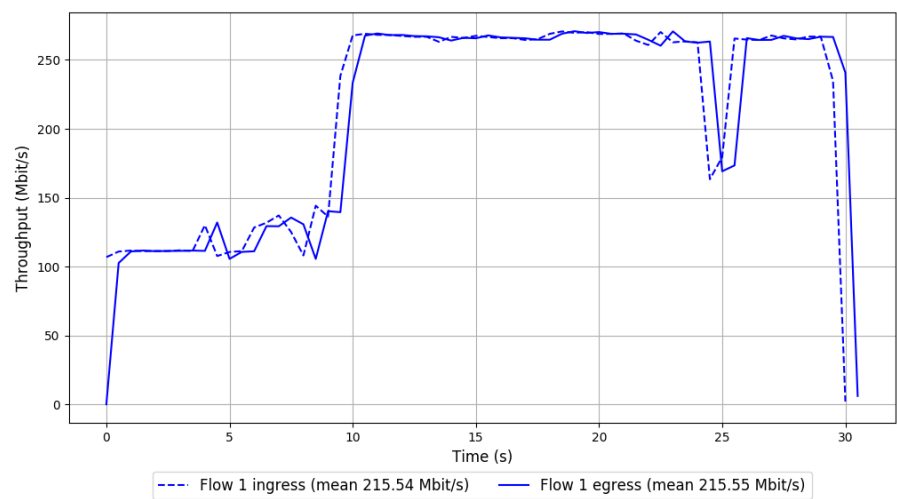
-- Flow 1:

Average throughput: 215.55 Mbit/s

95th percentile per-packet one-way delay: 18.852 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-06-05 07:24:01

End at: 2018-06-05 07:24:31

Local clock offset: 0.211 ms

Remote clock offset: 0.323 ms

Below is generated by plot.py at 2018-06-05 09:46:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 266.38 Mbit/s

95th percentile per-packet one-way delay: 18.225 ms

Loss rate: 0.01%

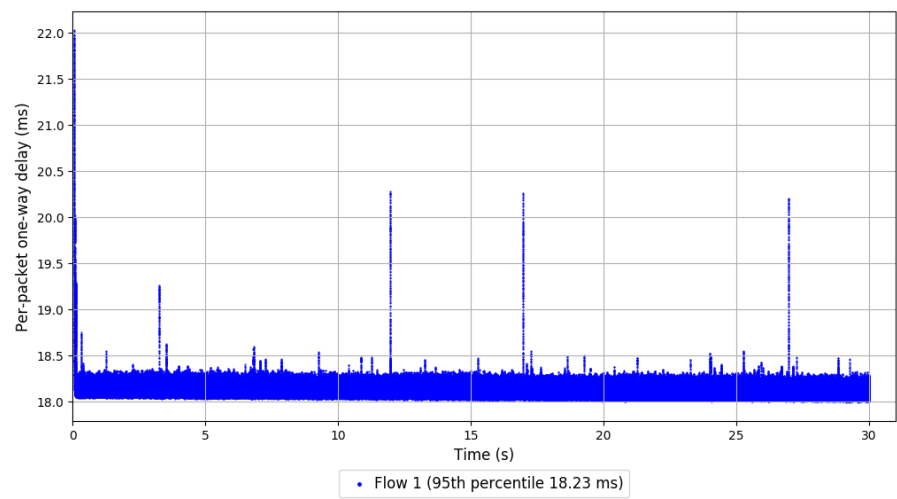
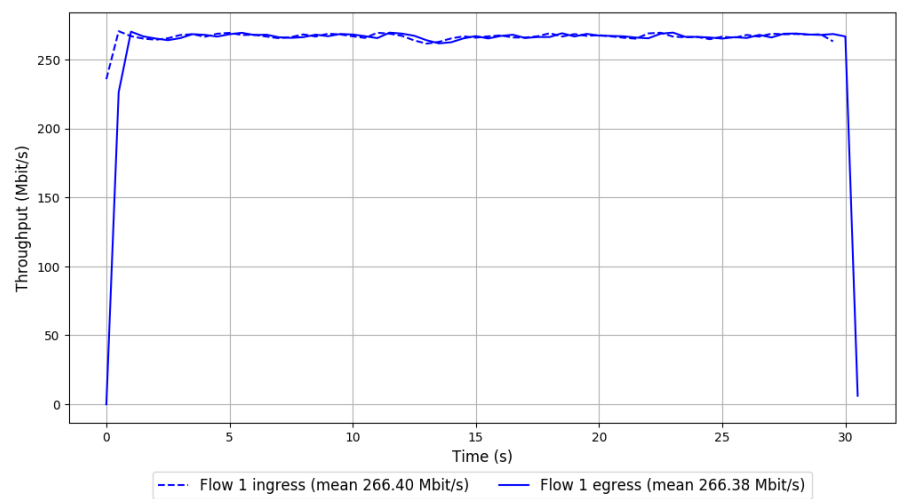
-- Flow 1:

Average throughput: 266.38 Mbit/s

95th percentile per-packet one-way delay: 18.225 ms

Loss rate: 0.01%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-06-05 07:47:51

End at: 2018-06-05 07:48:21

Local clock offset: 0.072 ms

Remote clock offset: 0.736 ms

Below is generated by plot.py at 2018-06-05 09:46:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 247.29 Mbit/s

95th percentile per-packet one-way delay: 18.149 ms

Loss rate: 0.00%

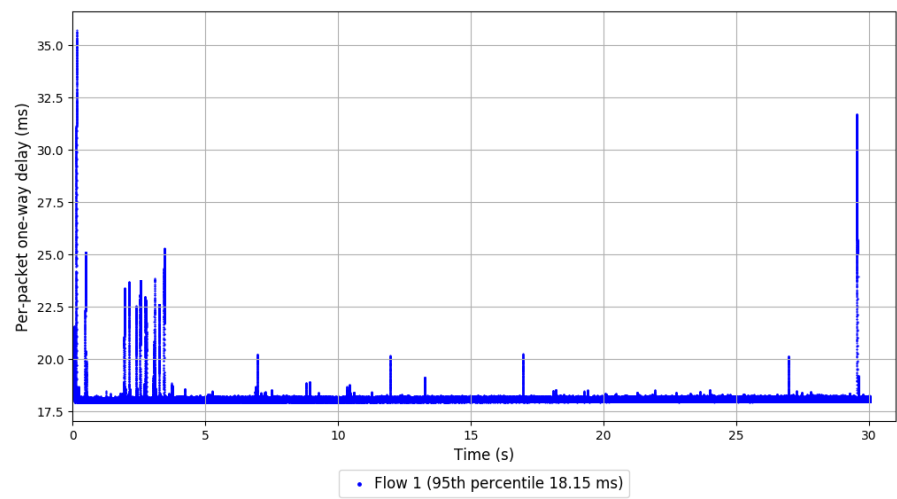
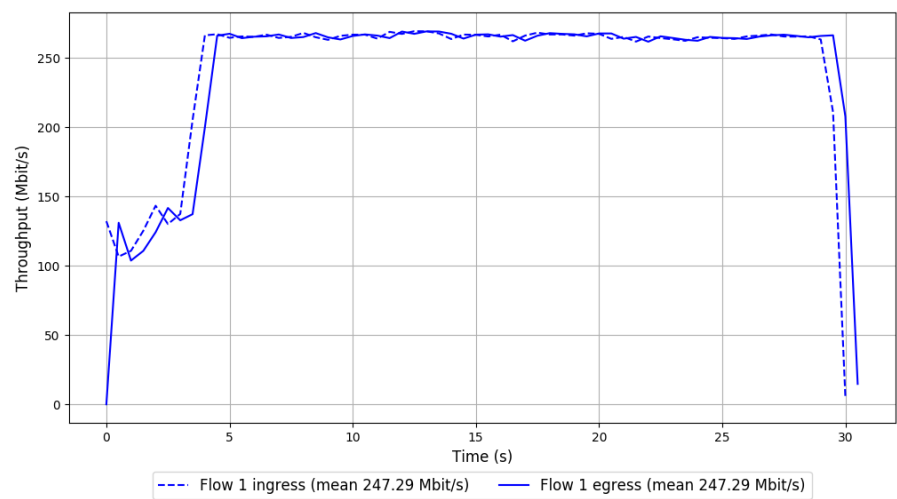
-- Flow 1:

Average throughput: 247.29 Mbit/s

95th percentile per-packet one-way delay: 18.149 ms

Loss rate: 0.00%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-06-05 08:11:40

End at: 2018-06-05 08:12:10

Local clock offset: 0.048 ms

Remote clock offset: 0.076 ms

Below is generated by plot.py at 2018-06-05 09:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.68 Mbit/s

95th percentile per-packet one-way delay: 18.827 ms

Loss rate: 0.00%

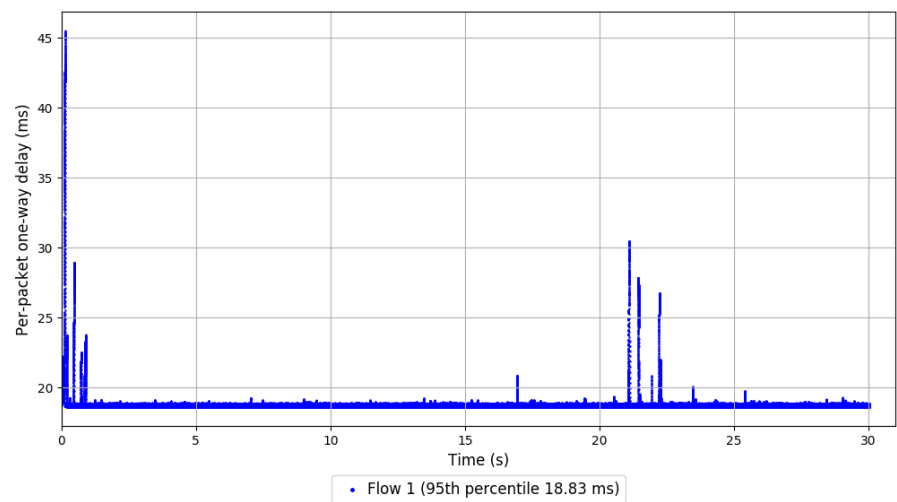
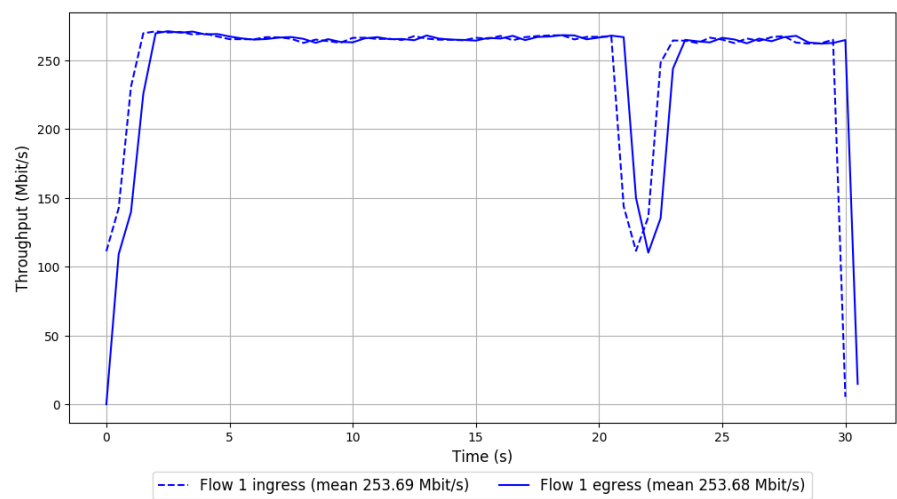
-- Flow 1:

Average throughput: 253.68 Mbit/s

95th percentile per-packet one-way delay: 18.827 ms

Loss rate: 0.00%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-06-05 04:32:42

End at: 2018-06-05 04:33:12

Local clock offset: 0.355 ms

Remote clock offset: 0.178 ms

Below is generated by plot.py at 2018-06-05 09:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 122.72 Mbit/s

95th percentile per-packet one-way delay: 20.535 ms

Loss rate: 0.00%

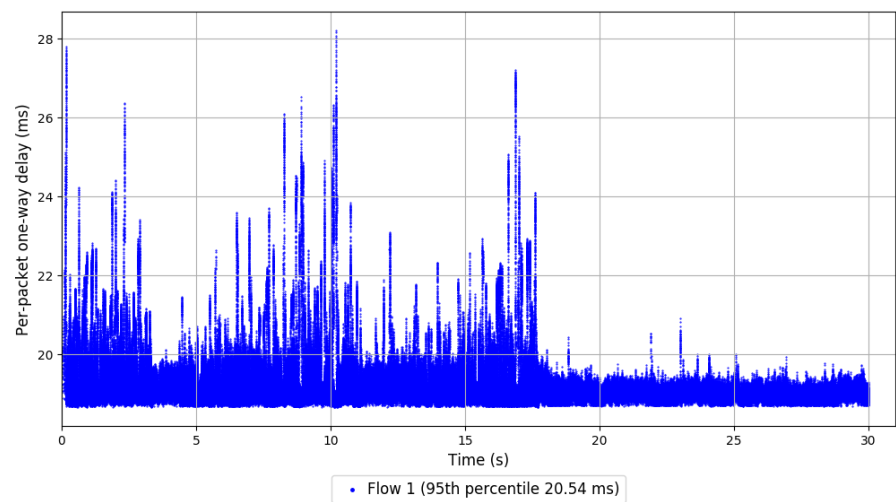
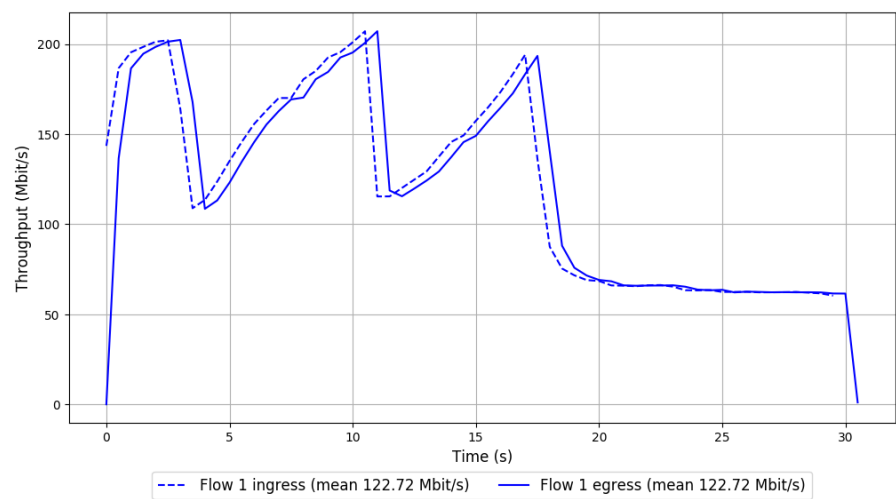
-- Flow 1:

Average throughput: 122.72 Mbit/s

95th percentile per-packet one-way delay: 20.535 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-06-05 04:56:28

End at: 2018-06-05 04:56:58

Local clock offset: 0.276 ms

Remote clock offset: 0.325 ms

Below is generated by plot.py at 2018-06-05 09:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.92 Mbit/s

95th percentile per-packet one-way delay: 21.135 ms

Loss rate: 0.01%

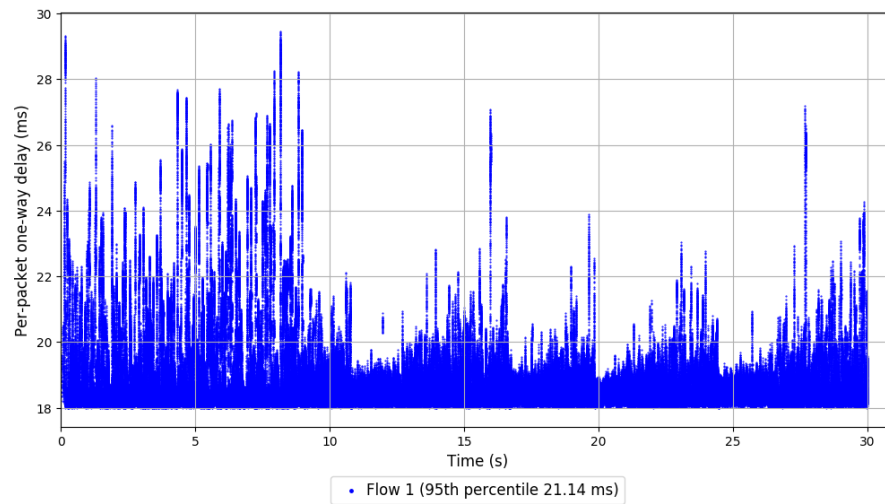
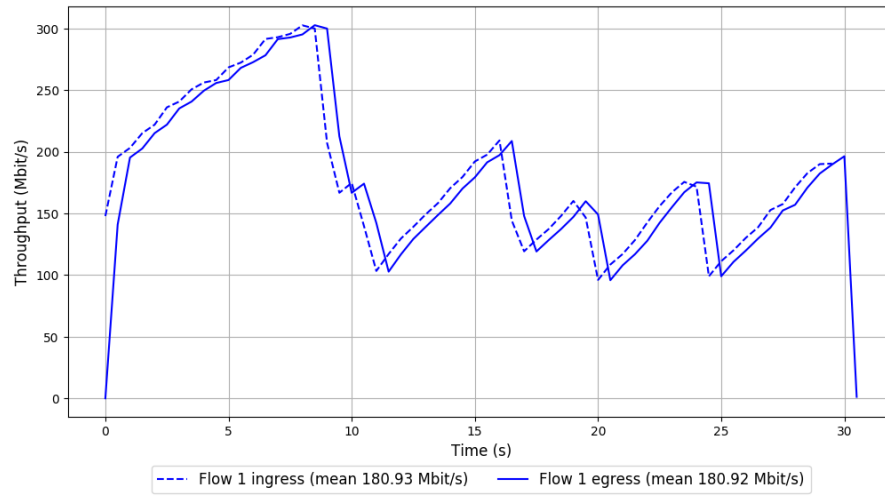
-- Flow 1:

Average throughput: 180.92 Mbit/s

95th percentile per-packet one-way delay: 21.135 ms

Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-06-05 05:20:11

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

Local clock offset: 0.093 ms

Remote clock offset: 0.128 ms

Below is generated by plot.py at 2018-06-05 09:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 148.66 Mbit/s

95th percentile per-packet one-way delay: 20.902 ms

Loss rate: 0.17%

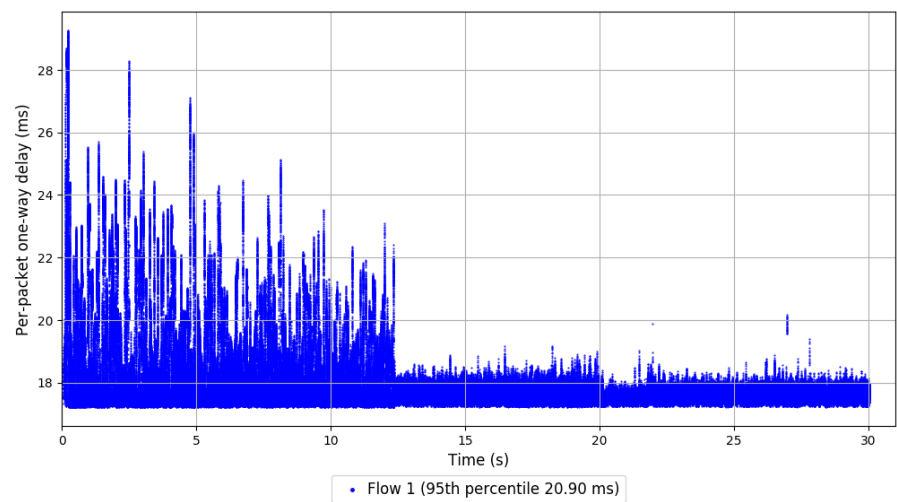
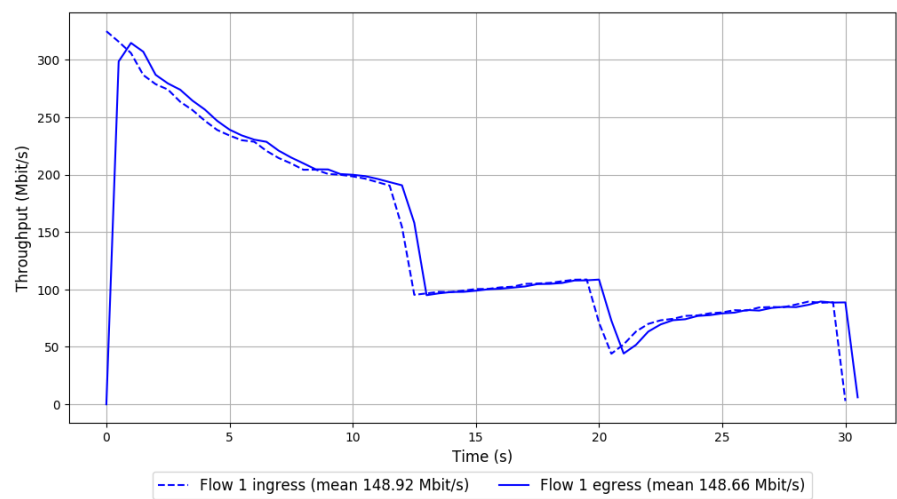
-- Flow 1:

Average throughput: 148.66 Mbit/s

95th percentile per-packet one-way delay: 20.902 ms

Loss rate: 0.17%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-06-05 05:44:10

End at: 2018-06-05 05:44:40

Local clock offset: 0.208 ms

Remote clock offset: 0.127 ms

Below is generated by plot.py at 2018-06-05 09:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.53 Mbit/s

95th percentile per-packet one-way delay: 20.129 ms

Loss rate: 0.96%

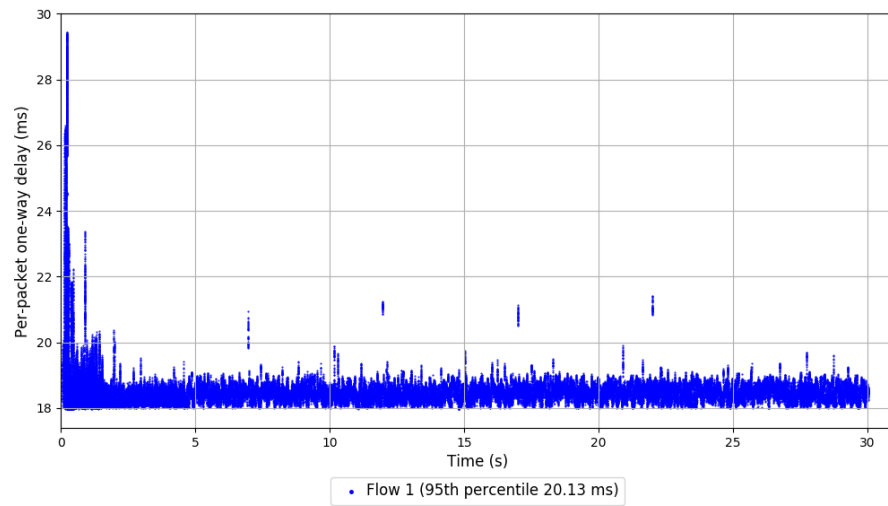
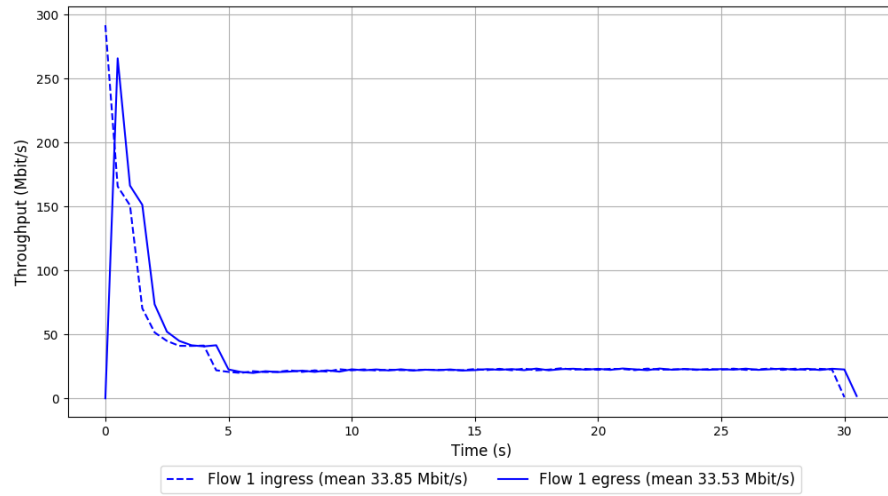
-- Flow 1:

Average throughput: 33.53 Mbit/s

95th percentile per-packet one-way delay: 20.129 ms

Loss rate: 0.96%

Run 4: Report of TCP Vegas — Data Link

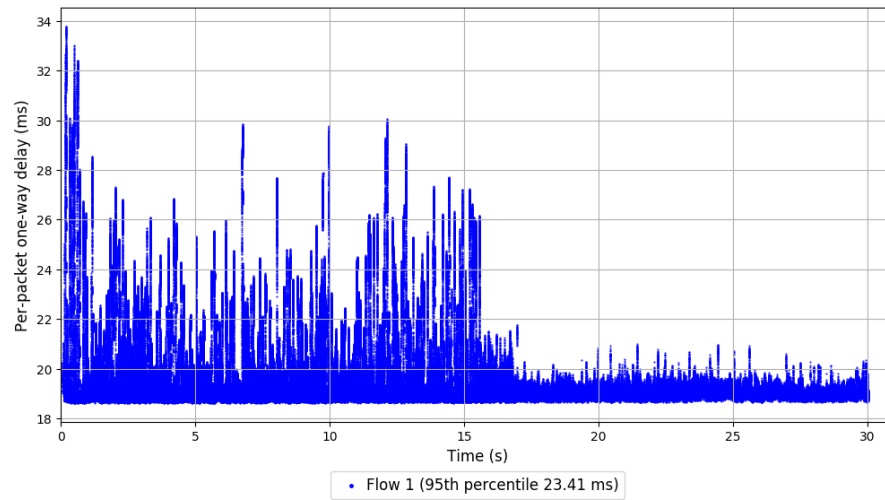
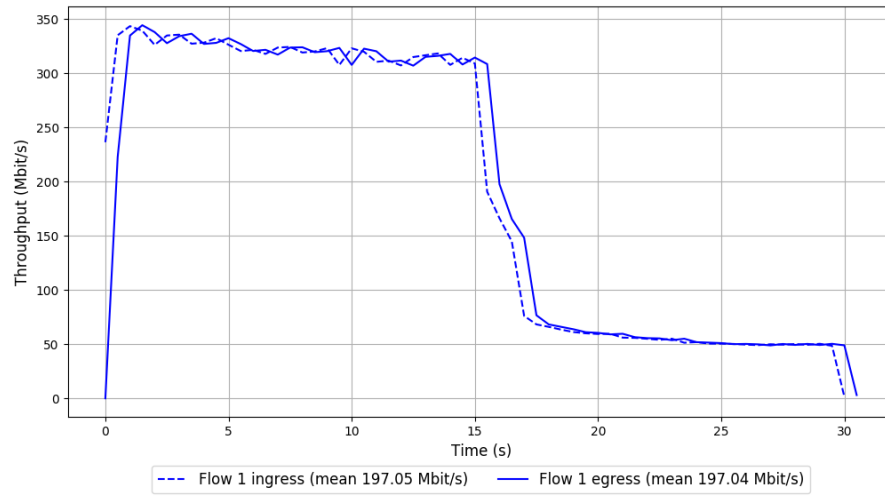


Run 5: Statistics of TCP Vegas

Start at: 2018-06-05 06:07:59
End at: 2018-06-05 06:08:29
Local clock offset: 0.382 ms
Remote clock offset: -0.312 ms

Below is generated by plot.py at 2018-06-05 09:48:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 197.04 Mbit/s
95th percentile per-packet one-way delay: 23.405 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 197.04 Mbit/s
95th percentile per-packet one-way delay: 23.405 ms
Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link

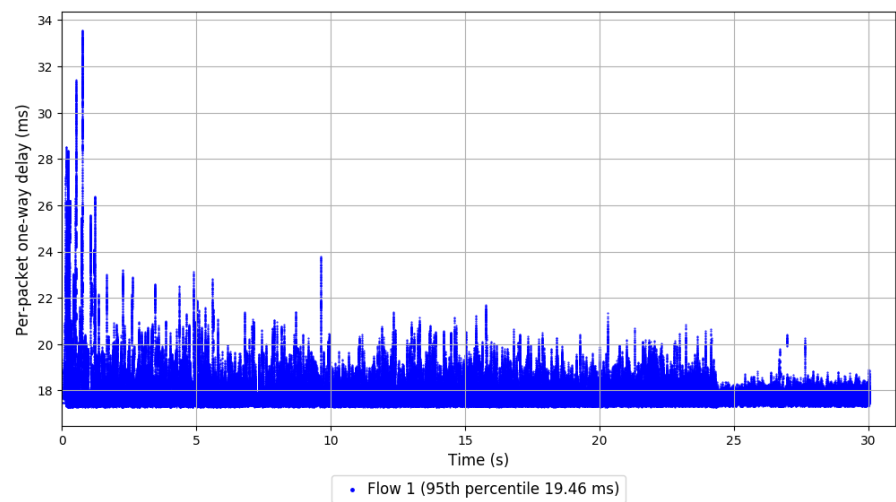
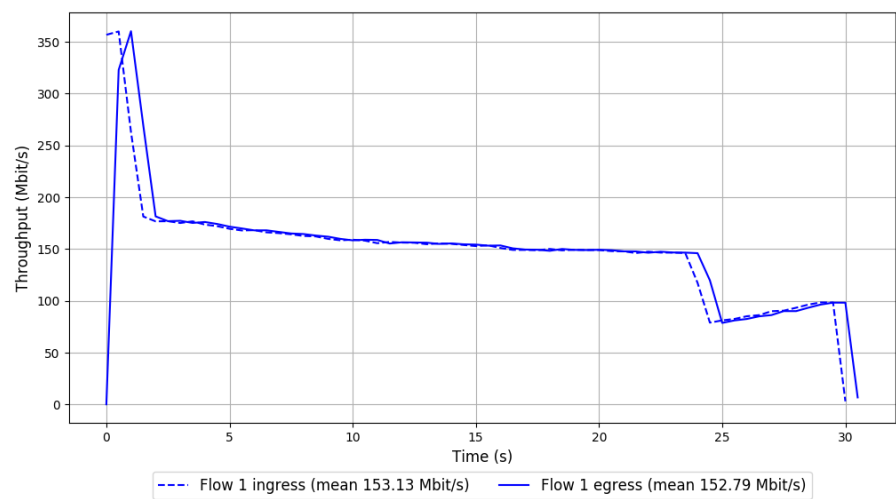


Run 6: Statistics of TCP Vegas

Start at: 2018-06-05 06:31:50
End at: 2018-06-05 06:32:20
Local clock offset: 0.323 ms
Remote clock offset: -0.942 ms

Below is generated by plot.py at 2018-06-05 09:48:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 152.79 Mbit/s
95th percentile per-packet one-way delay: 19.464 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 152.79 Mbit/s
95th percentile per-packet one-way delay: 19.464 ms
Loss rate: 0.23%

Run 6: Report of TCP Vegas — Data Link

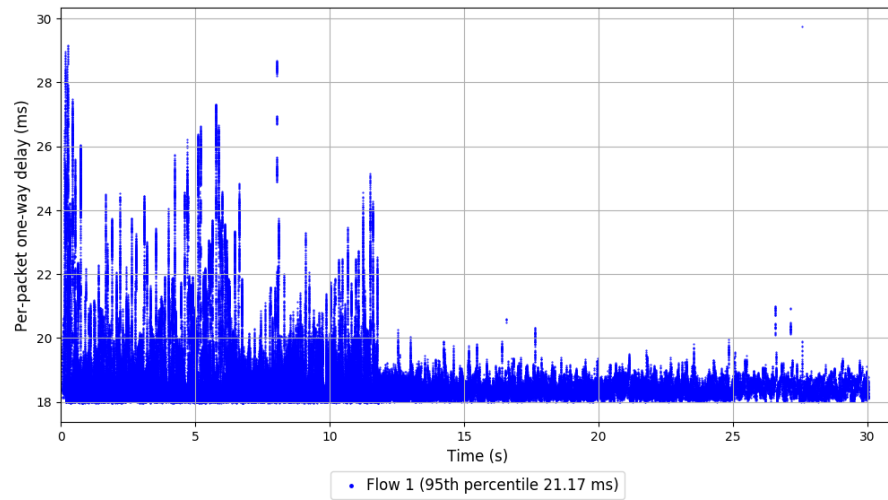
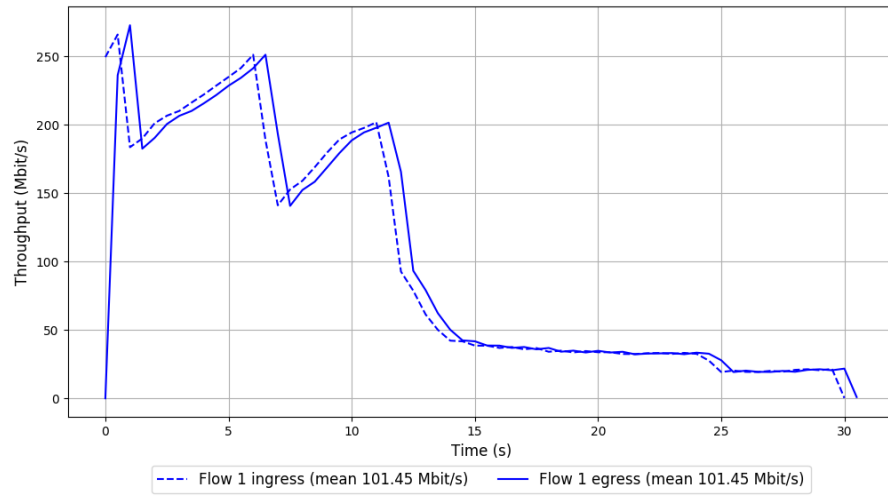


Run 7: Statistics of TCP Vegas

Start at: 2018-06-05 06:55:38
End at: 2018-06-05 06:56:08
Local clock offset: 0.393 ms
Remote clock offset: -1.261 ms

Below is generated by plot.py at 2018-06-05 09:48:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 101.45 Mbit/s
95th percentile per-packet one-way delay: 21.166 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 101.45 Mbit/s
95th percentile per-packet one-way delay: 21.166 ms
Loss rate: 0.01%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-06-05 07:19:22

End at: 2018-06-05 07:19:52

Local clock offset: 0.37 ms

Remote clock offset: -0.075 ms

Below is generated by plot.py at 2018-06-05 09:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.58 Mbit/s

95th percentile per-packet one-way delay: 22.036 ms

Loss rate: 0.00%

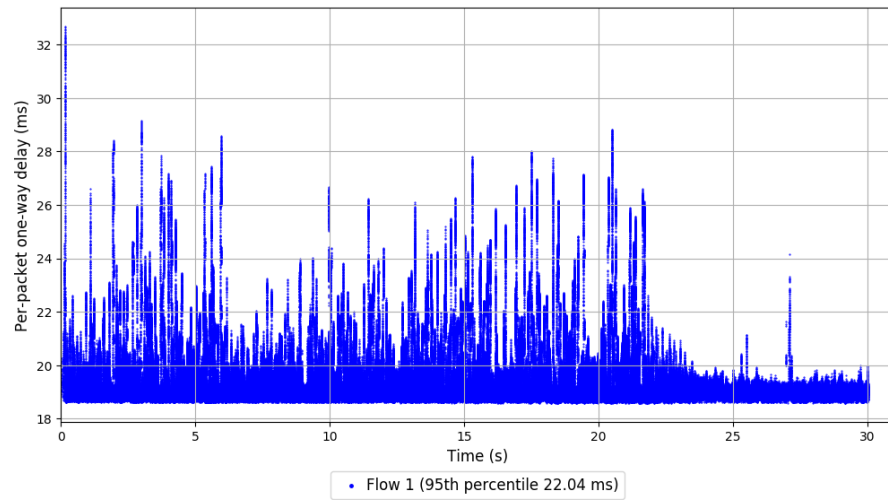
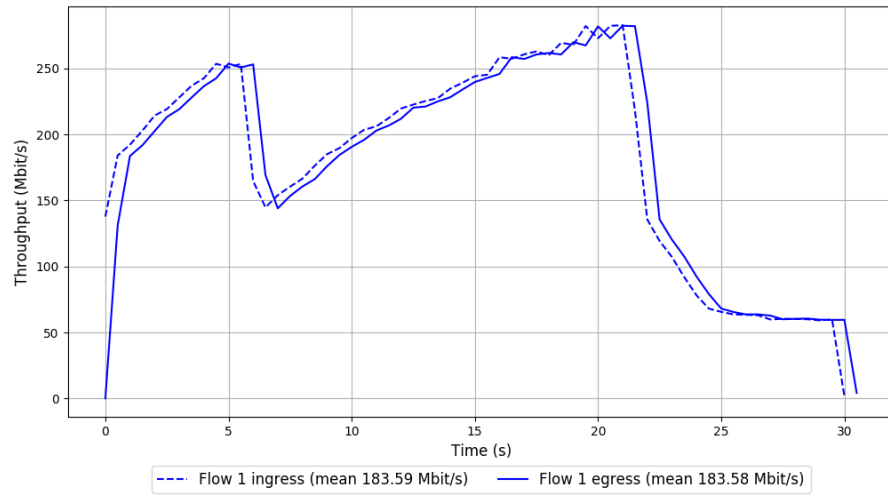
-- Flow 1:

Average throughput: 183.58 Mbit/s

95th percentile per-packet one-way delay: 22.036 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-06-05 07:43:12

End at: 2018-06-05 07:43:42

Local clock offset: 0.12 ms

Remote clock offset: 1.064 ms

Below is generated by plot.py at 2018-06-05 09:48:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.99 Mbit/s

95th percentile per-packet one-way delay: 22.164 ms

Loss rate: 0.00%

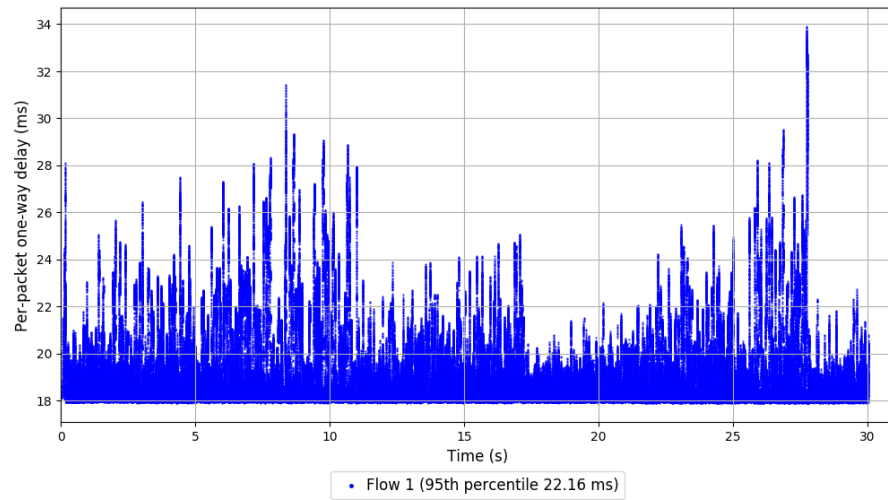
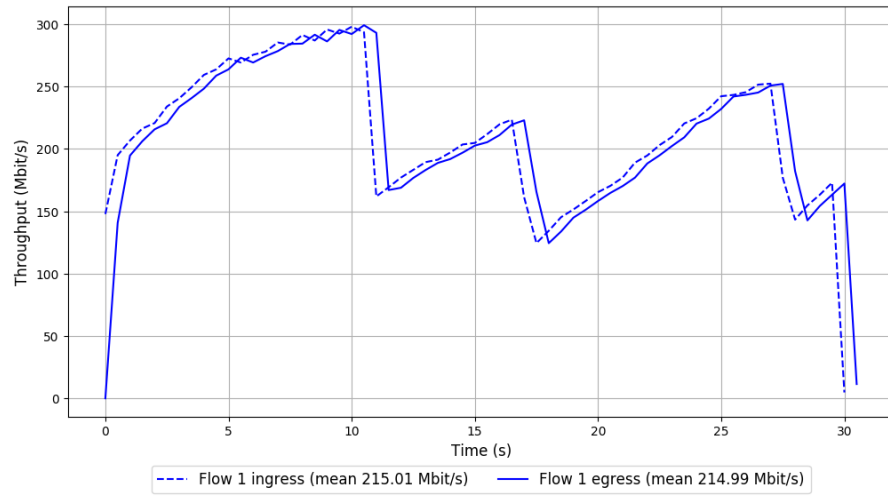
-- Flow 1:

Average throughput: 214.99 Mbit/s

95th percentile per-packet one-way delay: 22.164 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-06-05 08:07:00

End at: 2018-06-05 08:07:30

Local clock offset: -0.041 ms

Remote clock offset: 0.083 ms

Below is generated by plot.py at 2018-06-05 09:48:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.48 Mbit/s

95th percentile per-packet one-way delay: 22.209 ms

Loss rate: 0.00%

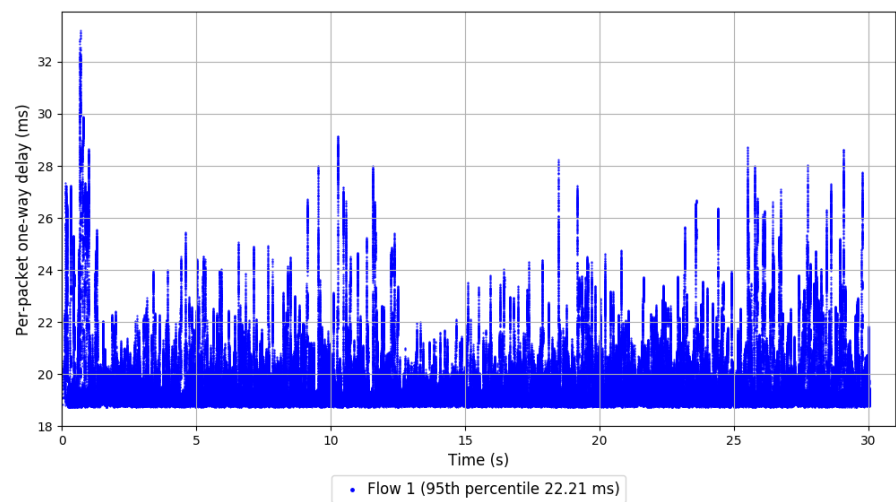
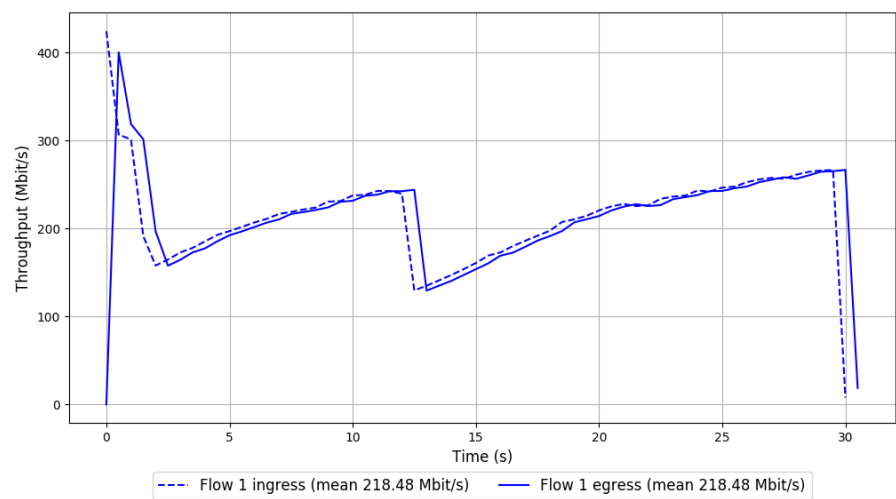
-- Flow 1:

Average throughput: 218.48 Mbit/s

95th percentile per-packet one-way delay: 22.209 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-06-05 04:22:38

End at: 2018-06-05 04:23:08

Local clock offset: 0.422 ms

Remote clock offset: 0.321 ms

Below is generated by plot.py at 2018-06-05 09:50:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.21 Mbit/s

95th percentile per-packet one-way delay: 46.099 ms

Loss rate: 14.75%

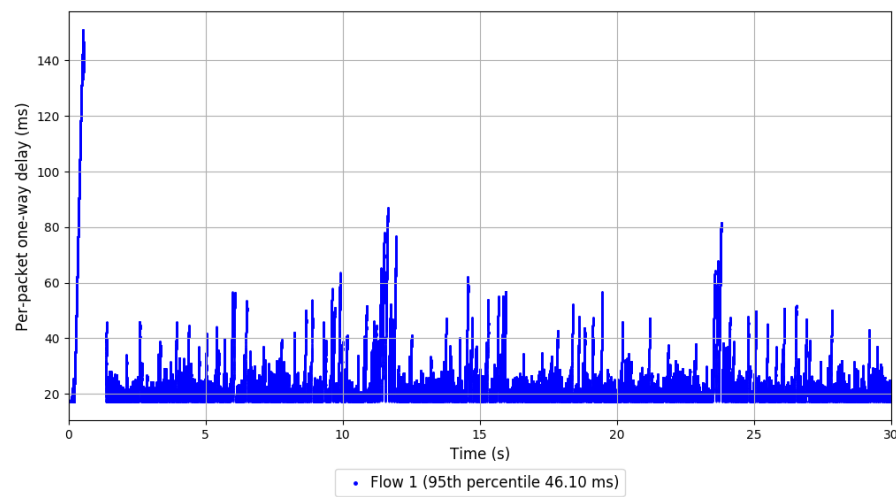
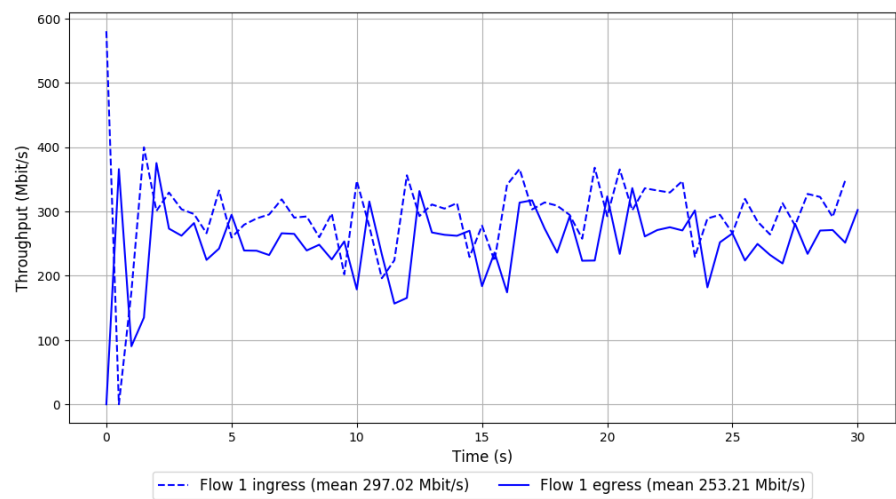
-- Flow 1:

Average throughput: 253.21 Mbit/s

95th percentile per-packet one-way delay: 46.099 ms

Loss rate: 14.75%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-06-05 04:46:29

End at: 2018-06-05 04:46:59

Local clock offset: 0.473 ms

Remote clock offset: 0.397 ms

Below is generated by plot.py at 2018-06-05 09:50:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 177.71 Mbit/s

95th percentile per-packet one-way delay: 52.314 ms

Loss rate: 22.06%

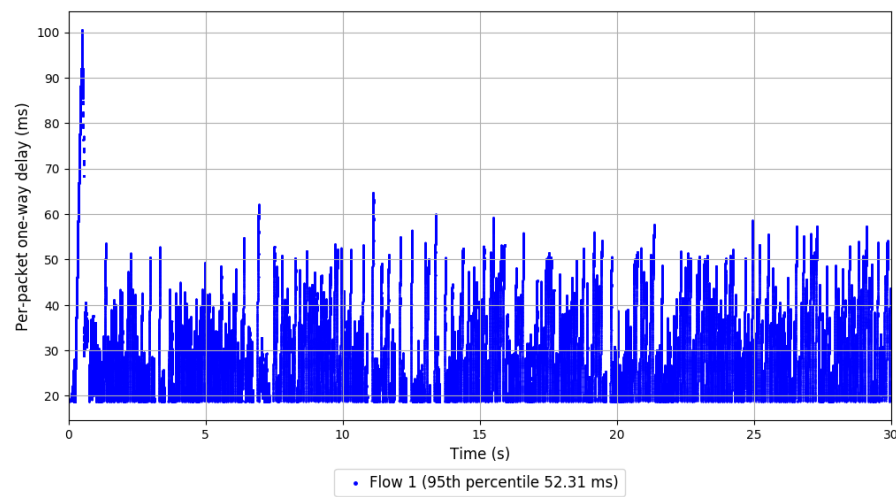
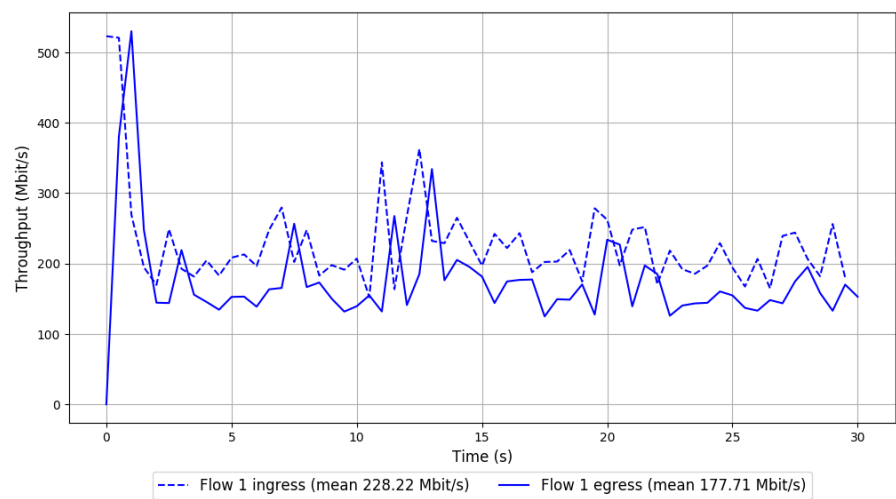
-- Flow 1:

Average throughput: 177.71 Mbit/s

95th percentile per-packet one-way delay: 52.314 ms

Loss rate: 22.06%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-06-05 05:10:07

End at: 2018-06-05 05:10:37

Local clock offset: 0.209 ms

Remote clock offset: 0.116 ms

Below is generated by plot.py at 2018-06-05 09:50:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.97 Mbit/s

95th percentile per-packet one-way delay: 51.756 ms

Loss rate: 22.13%

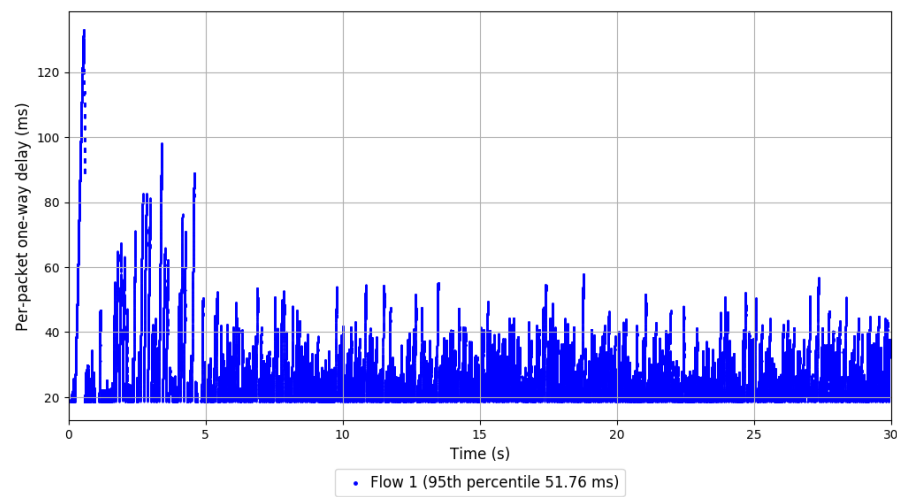
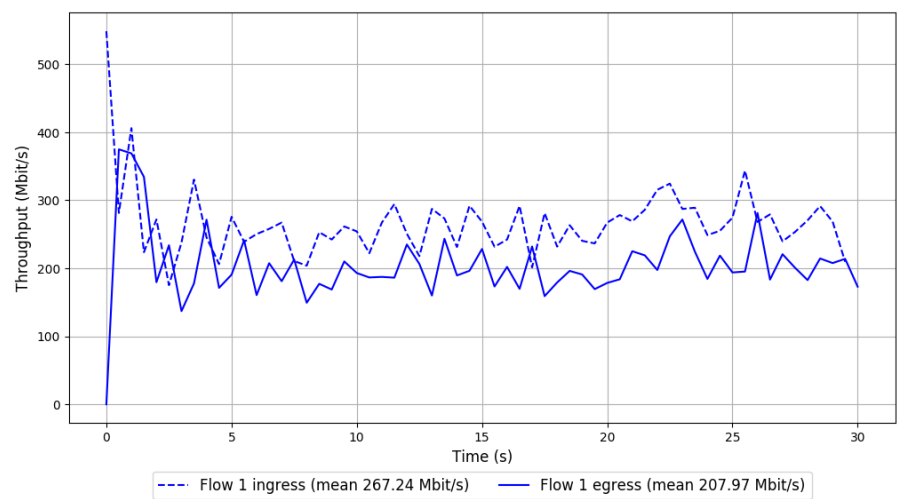
-- Flow 1:

Average throughput: 207.97 Mbit/s

95th percentile per-packet one-way delay: 51.756 ms

Loss rate: 22.13%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-06-05 05:34:03

End at: 2018-06-05 05:34:33

Local clock offset: 0.187 ms

Remote clock offset: 0.173 ms

Below is generated by plot.py at 2018-06-05 09:50:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.16 Mbit/s

95th percentile per-packet one-way delay: 65.290 ms

Loss rate: 19.38%

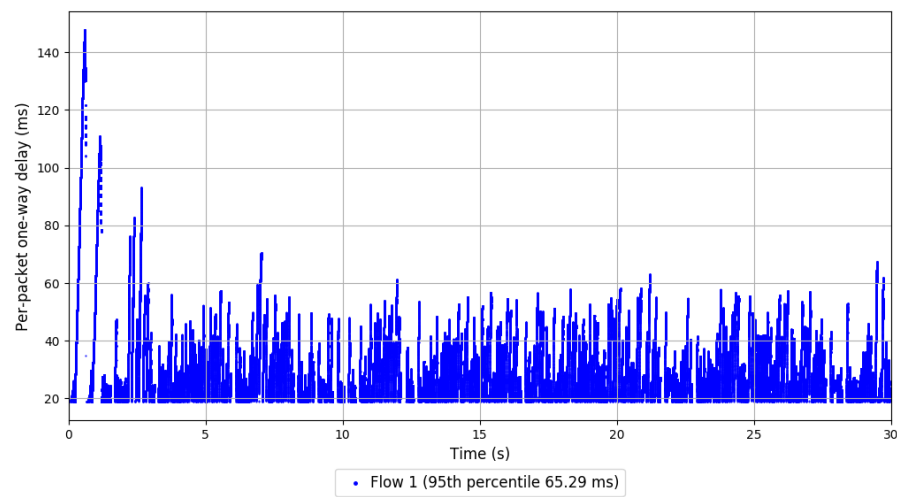
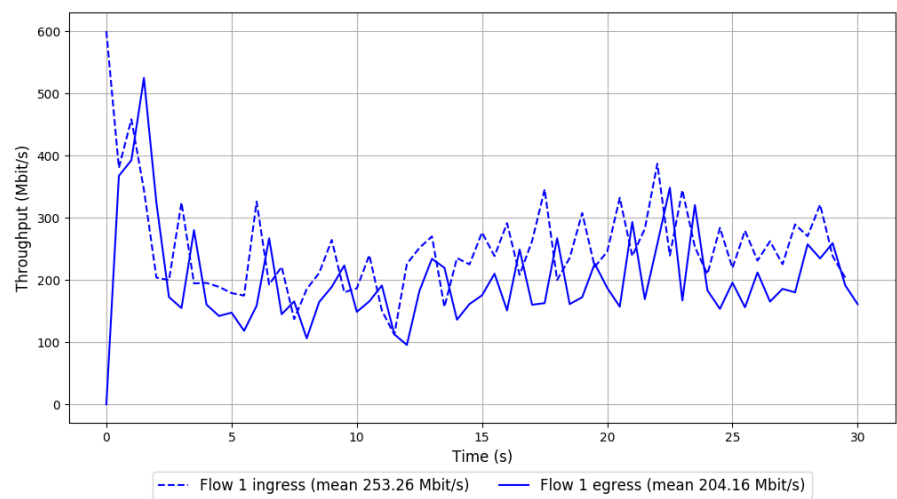
-- Flow 1:

Average throughput: 204.16 Mbit/s

95th percentile per-packet one-way delay: 65.290 ms

Loss rate: 19.38%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-06-05 05:57:54

End at: 2018-06-05 05:58:24

Local clock offset: 0.319 ms

Remote clock offset: 0.185 ms

Below is generated by plot.py at 2018-06-05 09:50:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.49 Mbit/s

95th percentile per-packet one-way delay: 46.658 ms

Loss rate: 17.07%

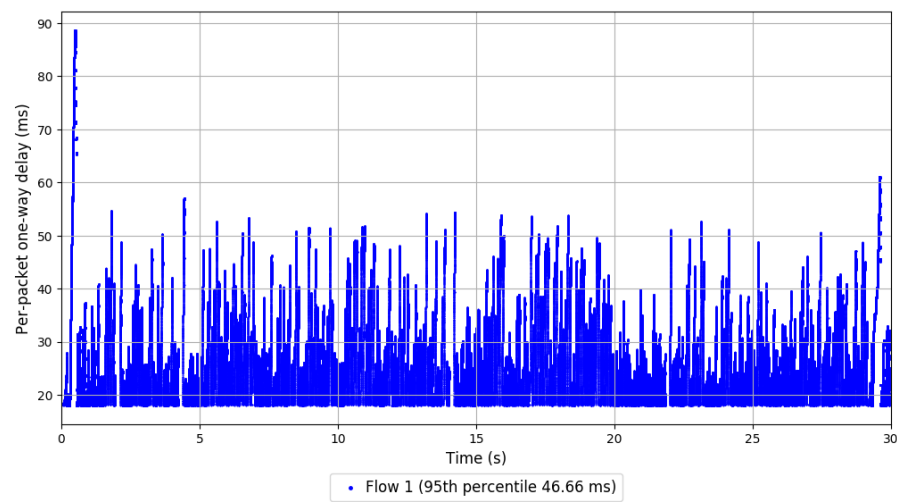
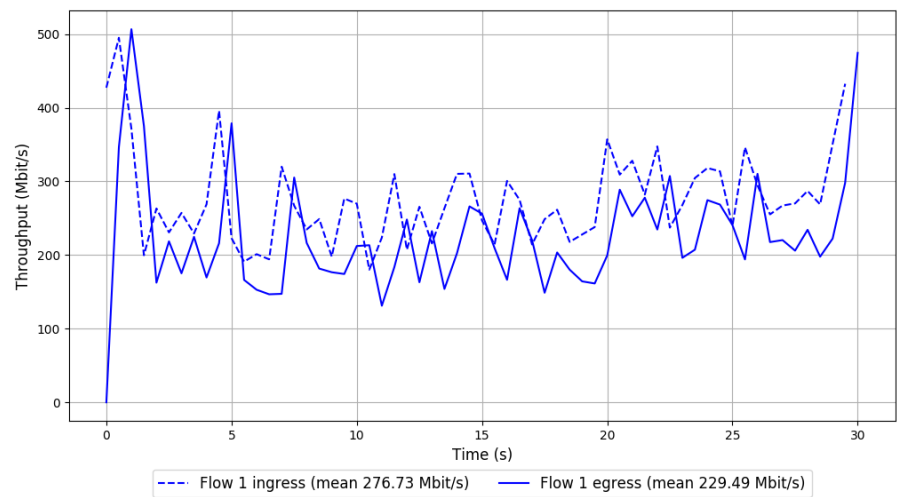
-- Flow 1:

Average throughput: 229.49 Mbit/s

95th percentile per-packet one-way delay: 46.658 ms

Loss rate: 17.07%

Run 5: Report of Verus — Data Link

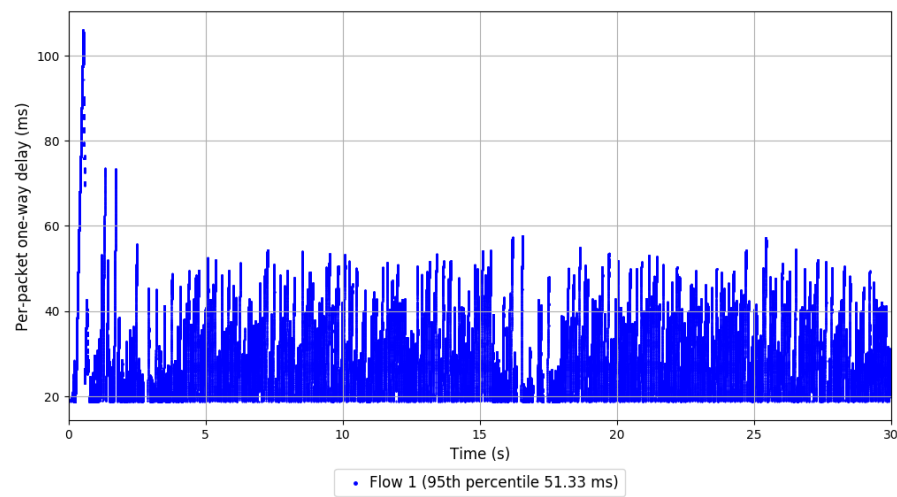
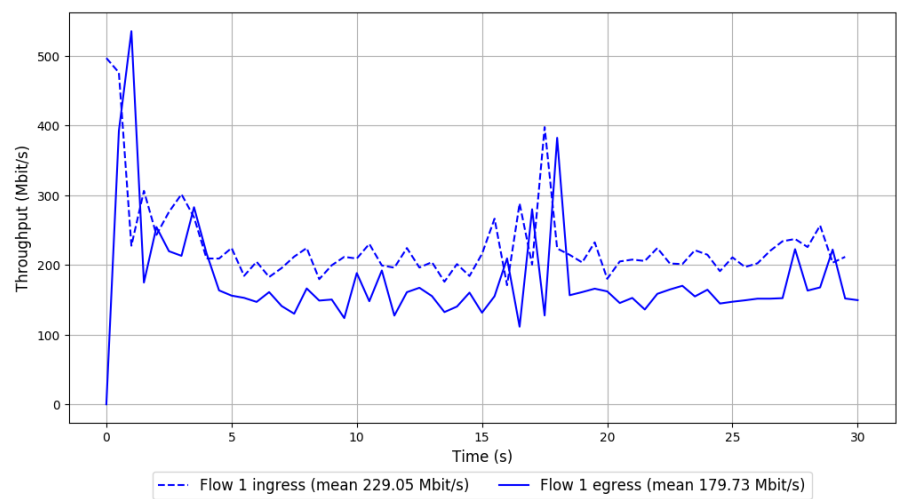


Run 6: Statistics of Verus

Start at: 2018-06-05 06:21:49
End at: 2018-06-05 06:22:19
Local clock offset: 0.375 ms
Remote clock offset: -0.746 ms

Below is generated by plot.py at 2018-06-05 09:50:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 179.73 Mbit/s
95th percentile per-packet one-way delay: 51.331 ms
Loss rate: 21.53%
-- Flow 1:
Average throughput: 179.73 Mbit/s
95th percentile per-packet one-way delay: 51.331 ms
Loss rate: 21.53%

Run 6: Report of Verus — Data Link

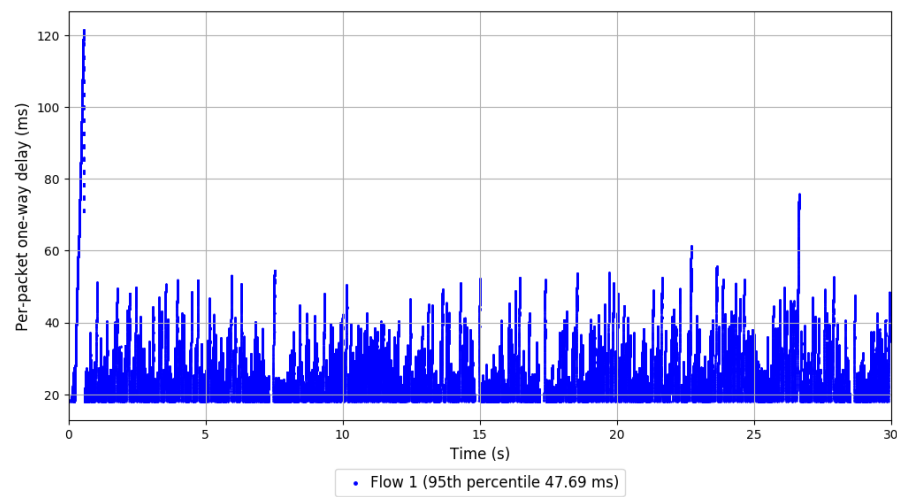
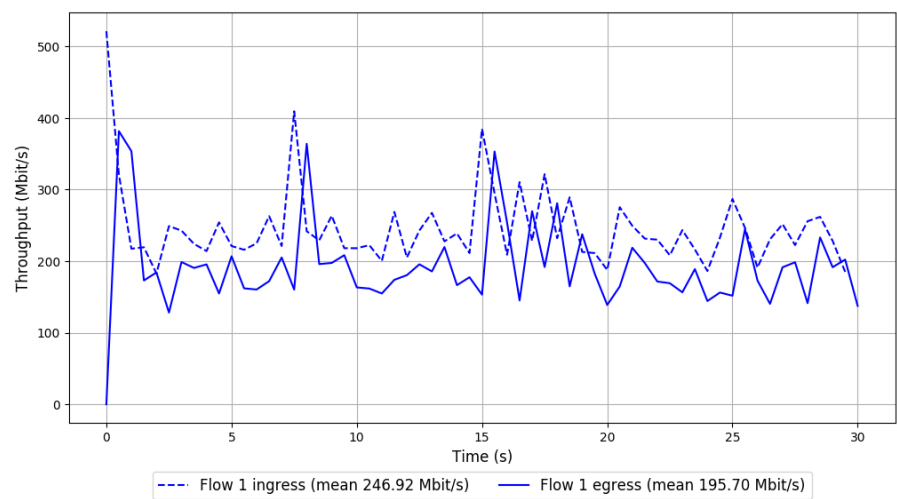


Run 7: Statistics of Verus

Start at: 2018-06-05 06:45:33
End at: 2018-06-05 06:46:03
Local clock offset: 0.394 ms
Remote clock offset: -1.151 ms

Below is generated by plot.py at 2018-06-05 09:51:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 195.70 Mbit/s
95th percentile per-packet one-way delay: 47.686 ms
Loss rate: 20.69%
-- Flow 1:
Average throughput: 195.70 Mbit/s
95th percentile per-packet one-way delay: 47.686 ms
Loss rate: 20.69%

Run 7: Report of Verus — Data Link

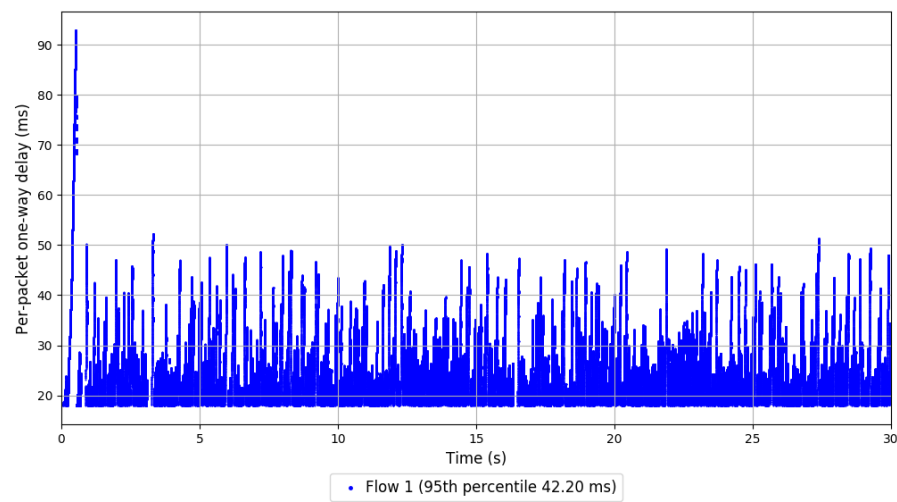
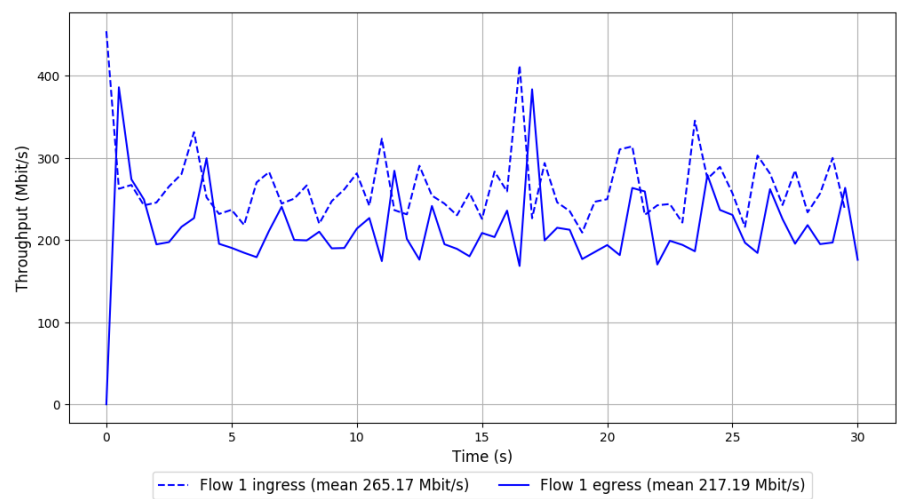


Run 8: Statistics of Verus

Start at: 2018-06-05 07:09:21
End at: 2018-06-05 07:09:51
Local clock offset: 0.414 ms
Remote clock offset: -1.416 ms

Below is generated by plot.py at 2018-06-05 09:51:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 217.19 Mbit/s
95th percentile per-packet one-way delay: 42.198 ms
Loss rate: 18.09%
-- Flow 1:
Average throughput: 217.19 Mbit/s
95th percentile per-packet one-way delay: 42.198 ms
Loss rate: 18.09%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-06-05 07:33:06

End at: 2018-06-05 07:33:36

Local clock offset: 0.099 ms

Remote clock offset: 0.767 ms

Below is generated by plot.py at 2018-06-05 09:52:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 241.03 Mbit/s

95th percentile per-packet one-way delay: 45.725 ms

Loss rate: 17.08%

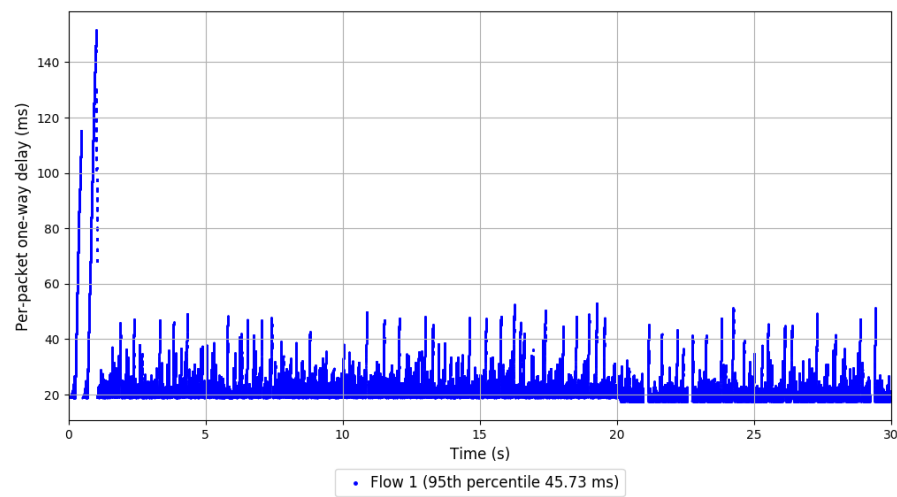
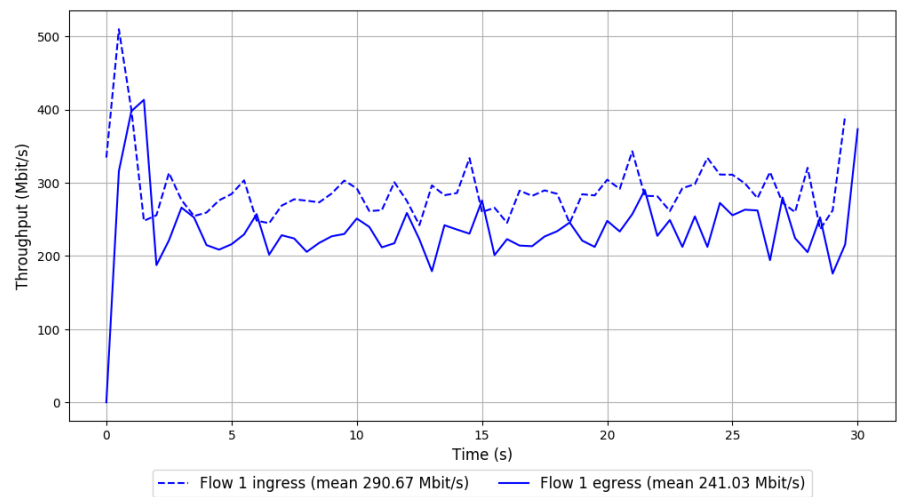
-- Flow 1:

Average throughput: 241.03 Mbit/s

95th percentile per-packet one-way delay: 45.725 ms

Loss rate: 17.08%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-06-05 07:56:59

End at: 2018-06-05 07:57:29

Local clock offset: -0.015 ms

Remote clock offset: 0.269 ms

Below is generated by plot.py at 2018-06-05 09:52:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.38 Mbit/s

95th percentile per-packet one-way delay: 44.556 ms

Loss rate: 20.47%

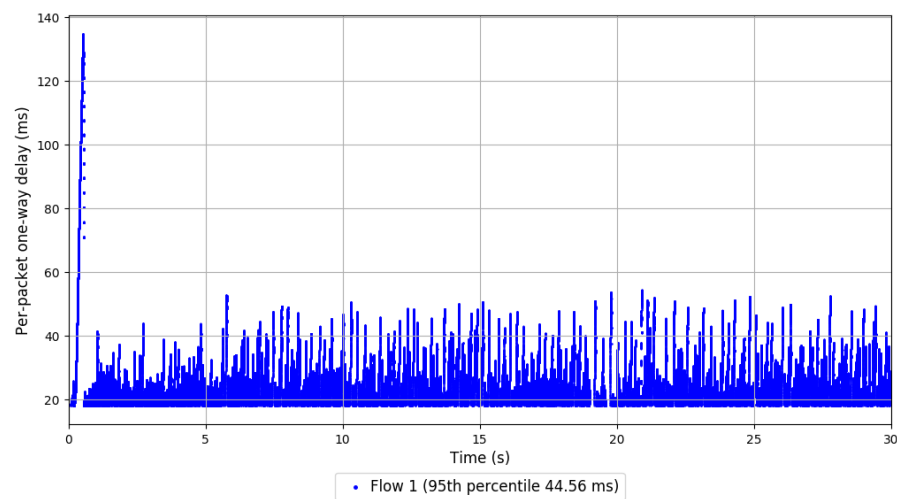
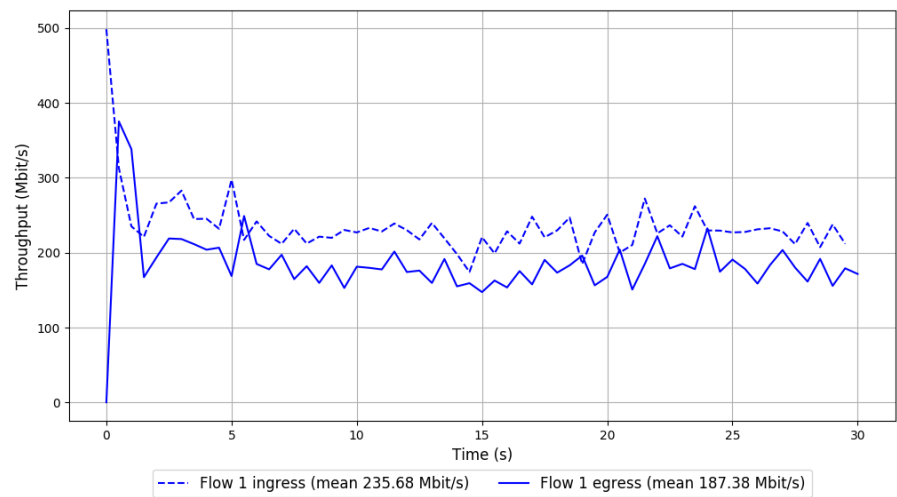
-- Flow 1:

Average throughput: 187.38 Mbit/s

95th percentile per-packet one-way delay: 44.556 ms

Loss rate: 20.47%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-06-05 04:29:46

End at: 2018-06-05 04:30:16

Local clock offset: 0.42 ms

Remote clock offset: 0.232 ms

Below is generated by plot.py at 2018-06-05 09:56:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 460.34 Mbit/s

95th percentile per-packet one-way delay: 28.995 ms

Loss rate: 0.00%

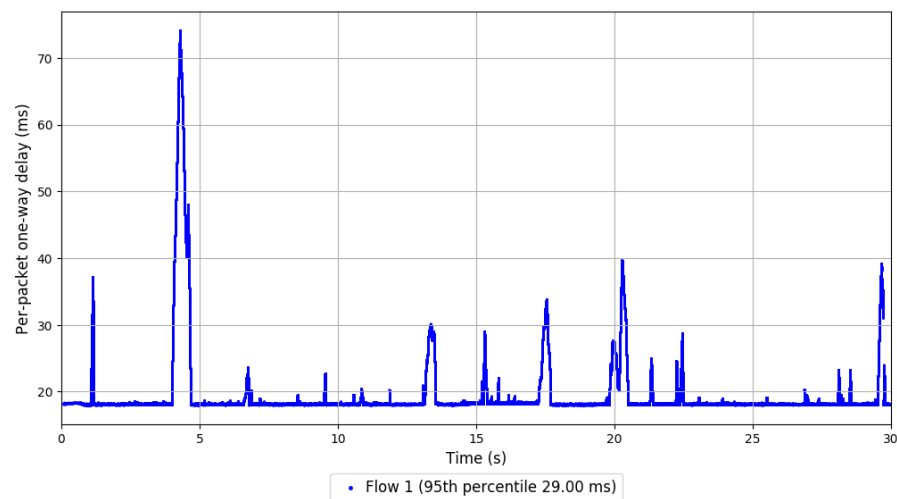
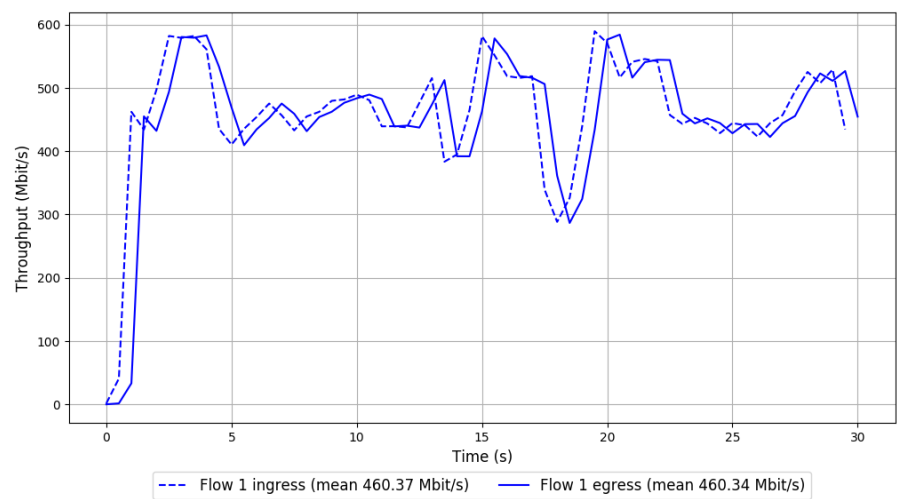
-- Flow 1:

Average throughput: 460.34 Mbit/s

95th percentile per-packet one-way delay: 28.995 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-06-05 04:53:33

End at: 2018-06-05 04:54:03

Local clock offset: 0.428 ms

Remote clock offset: 0.411 ms

Below is generated by plot.py at 2018-06-05 09:56:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 458.50 Mbit/s

95th percentile per-packet one-way delay: 55.339 ms

Loss rate: 0.02%

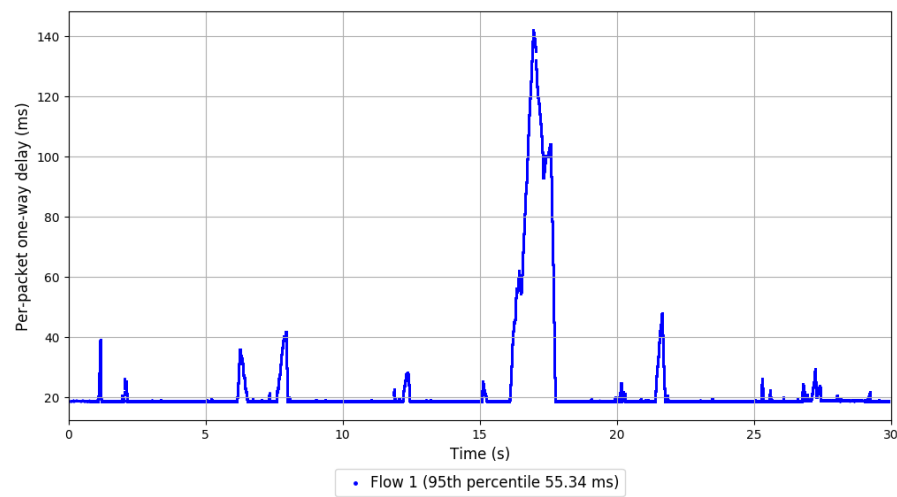
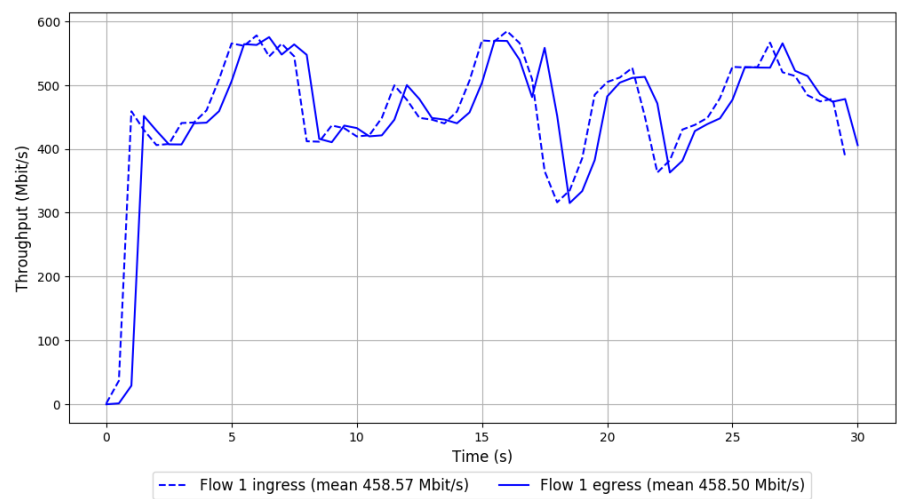
-- Flow 1:

Average throughput: 458.50 Mbit/s

95th percentile per-packet one-way delay: 55.339 ms

Loss rate: 0.02%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

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

End at: 2018-06-05 05:17:47

Local clock offset: 0.17 ms

Remote clock offset: 0.187 ms

Below is generated by plot.py at 2018-06-05 09:56:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 423.48 Mbit/s

95th percentile per-packet one-way delay: 23.800 ms

Loss rate: 0.01%

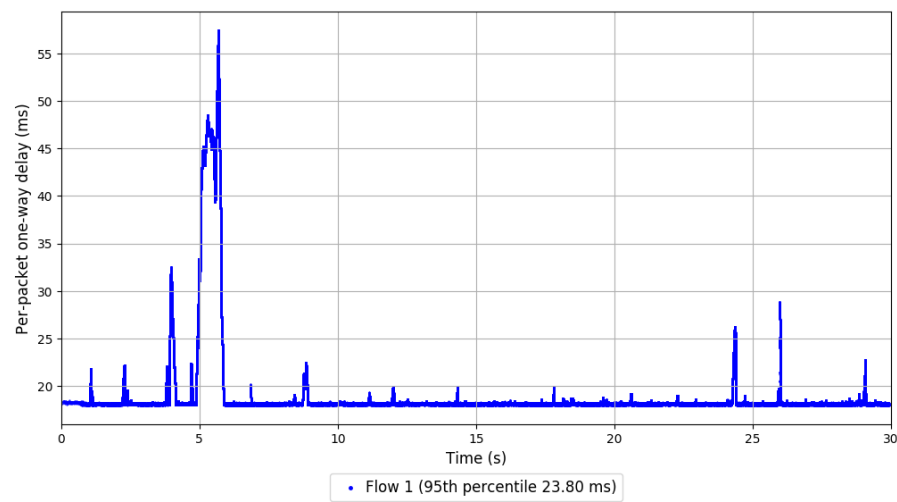
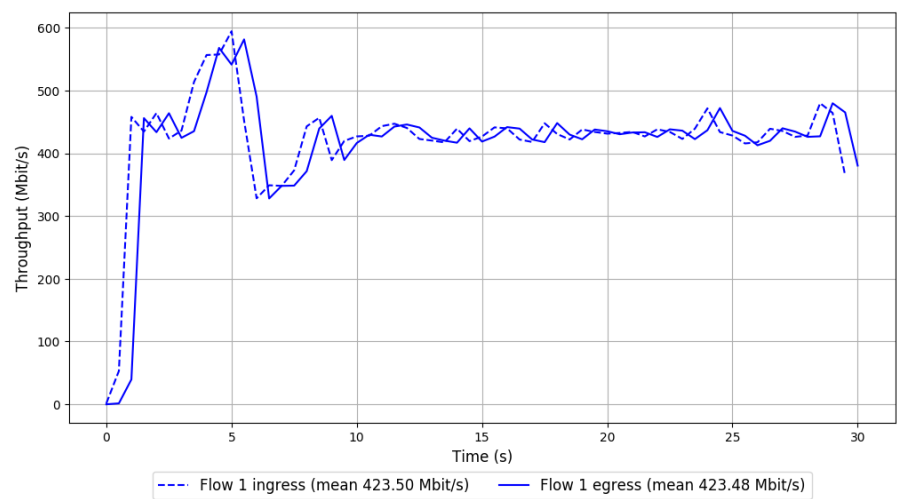
-- Flow 1:

Average throughput: 423.48 Mbit/s

95th percentile per-packet one-way delay: 23.800 ms

Loss rate: 0.01%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-06-05 05:41:15

End at: 2018-06-05 05:41:45

Local clock offset: 0.21 ms

Remote clock offset: 0.169 ms

Below is generated by plot.py at 2018-06-05 09:57:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 456.45 Mbit/s

95th percentile per-packet one-way delay: 29.752 ms

Loss rate: 0.01%

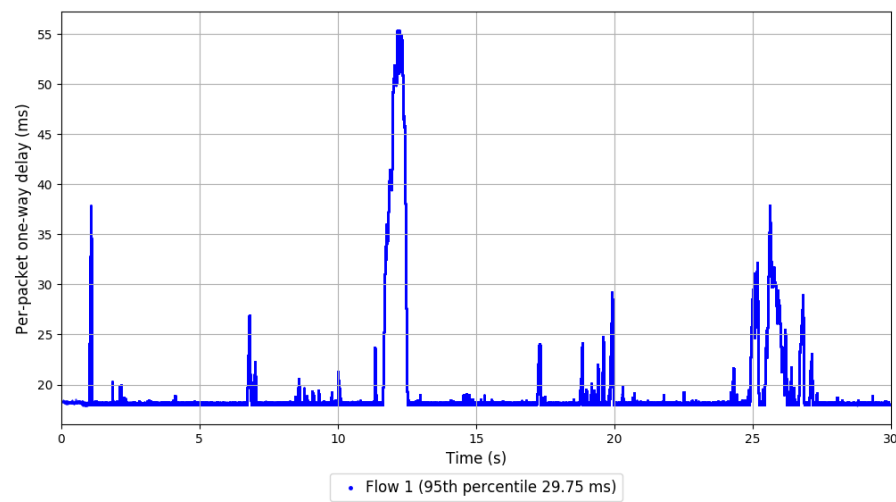
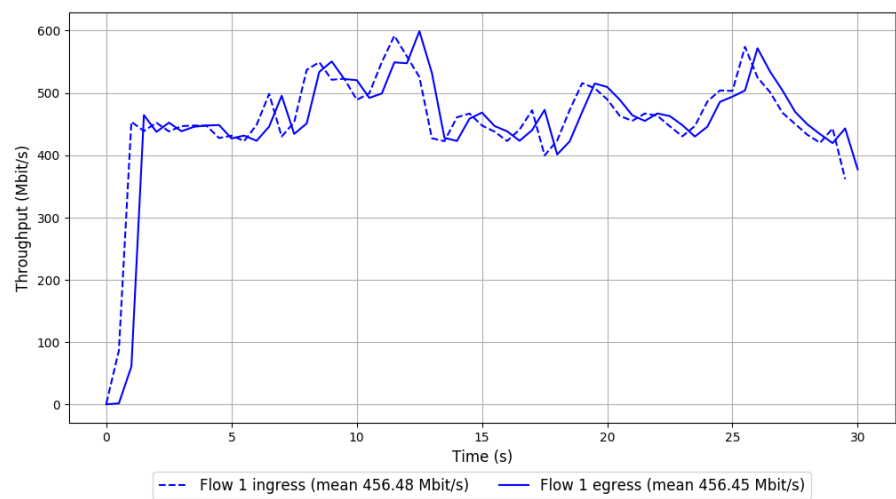
-- Flow 1:

Average throughput: 456.45 Mbit/s

95th percentile per-packet one-way delay: 29.752 ms

Loss rate: 0.01%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

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

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

Local clock offset: 0.37 ms

Remote clock offset: -0.051 ms

Below is generated by plot.py at 2018-06-05 09:57:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 430.25 Mbit/s

95th percentile per-packet one-way delay: 19.150 ms

Loss rate: 0.00%

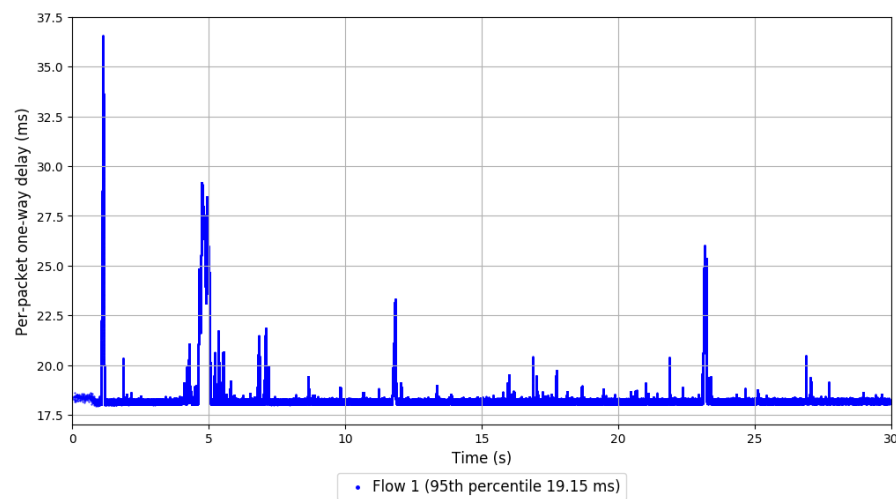
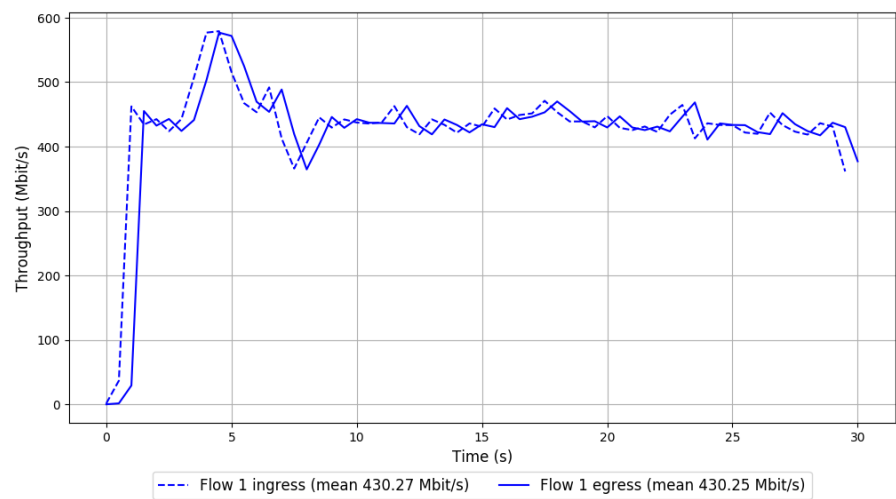
-- Flow 1:

Average throughput: 430.25 Mbit/s

95th percentile per-packet one-way delay: 19.150 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-06-05 06:28:55

End at: 2018-06-05 06:29:25

Local clock offset: 0.412 ms

Remote clock offset: -0.901 ms

Below is generated by plot.py at 2018-06-05 09:57:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 443.15 Mbit/s

95th percentile per-packet one-way delay: 19.548 ms

Loss rate: 0.01%

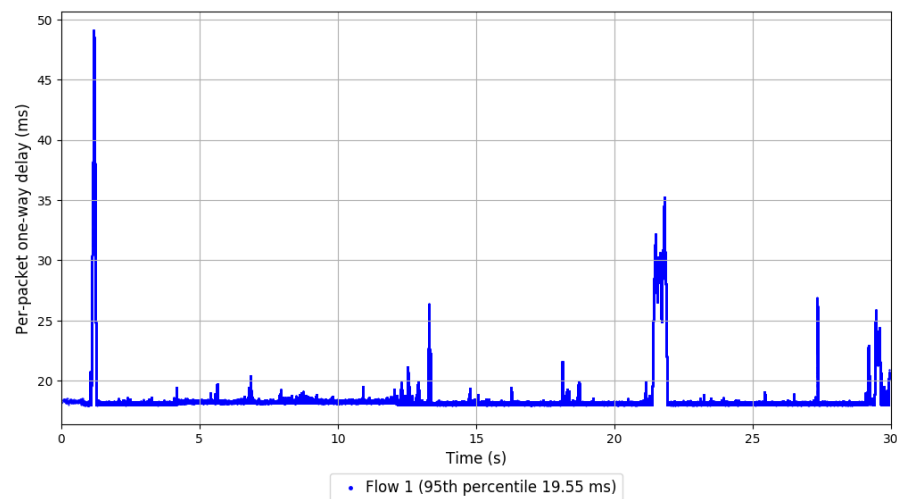
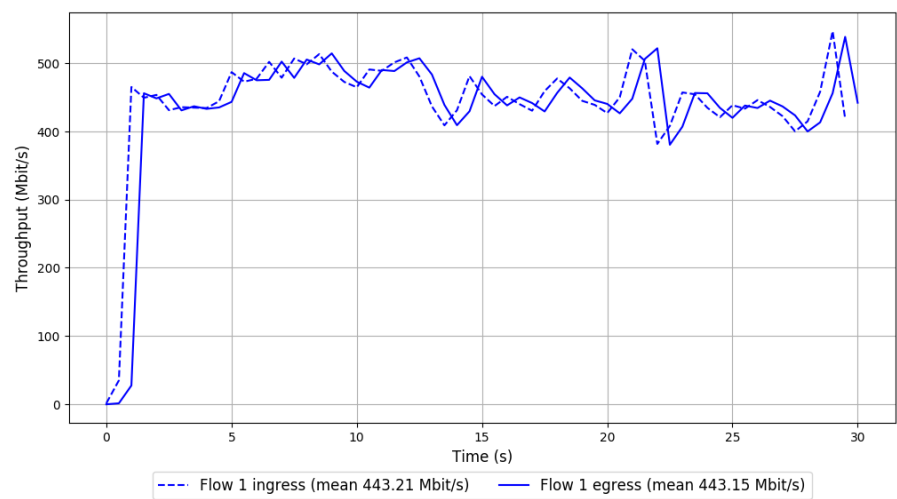
-- Flow 1:

Average throughput: 443.15 Mbit/s

95th percentile per-packet one-way delay: 19.548 ms

Loss rate: 0.01%

Run 6: Report of PCC-Vivace — Data Link

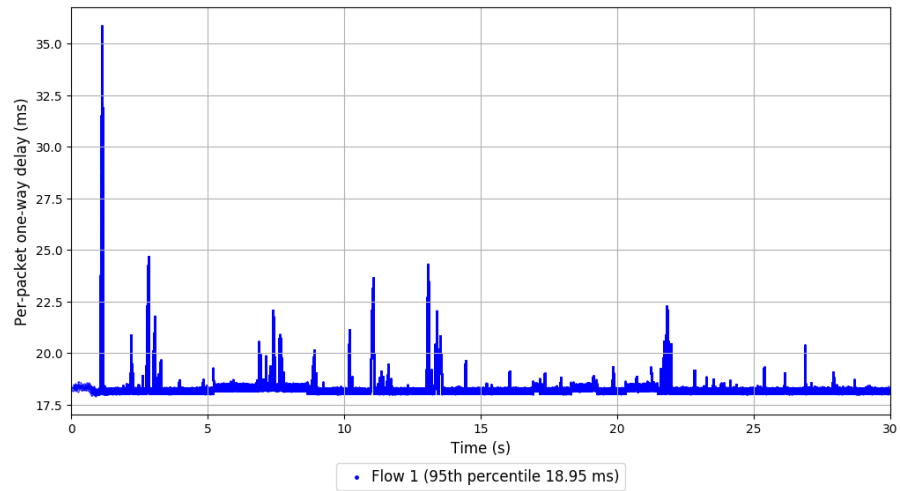
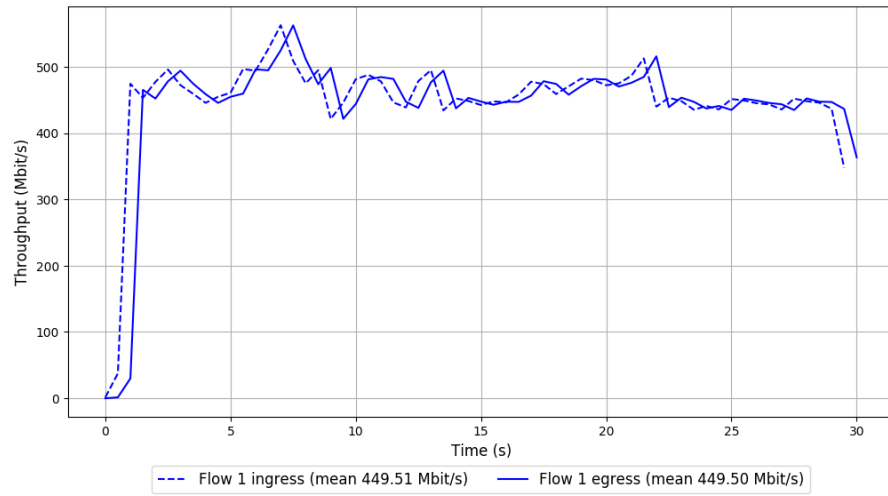


Run 7: Statistics of PCC-Vivace

Start at: 2018-06-05 06:52:42
End at: 2018-06-05 06:53:12
Local clock offset: 0.293 ms
Remote clock offset: -1.265 ms

Below is generated by plot.py at 2018-06-05 09:57:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 449.50 Mbit/s
95th percentile per-packet one-way delay: 18.947 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 449.50 Mbit/s
95th percentile per-packet one-way delay: 18.947 ms
Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-06-05 07:16:28

End at: 2018-06-05 07:16:58

Local clock offset: 0.284 ms

Remote clock offset: -0.416 ms

Below is generated by plot.py at 2018-06-05 09:57:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 422.73 Mbit/s

95th percentile per-packet one-way delay: 18.934 ms

Loss rate: 0.01%

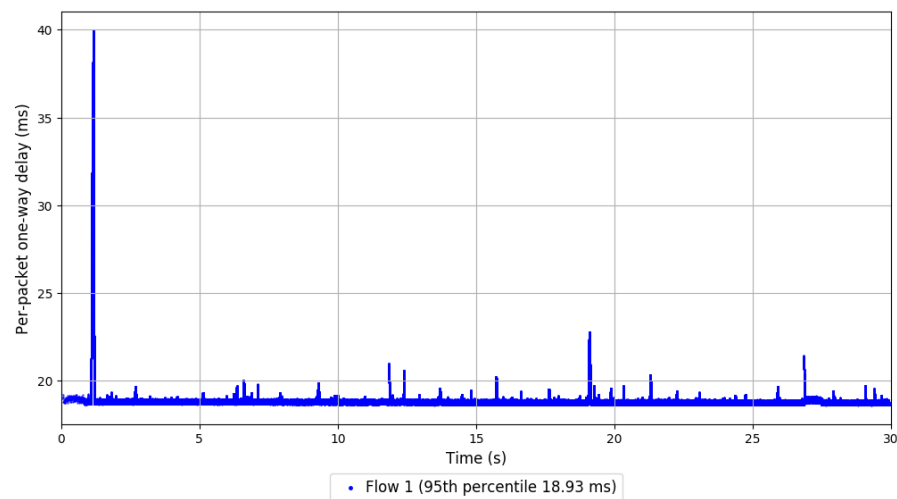
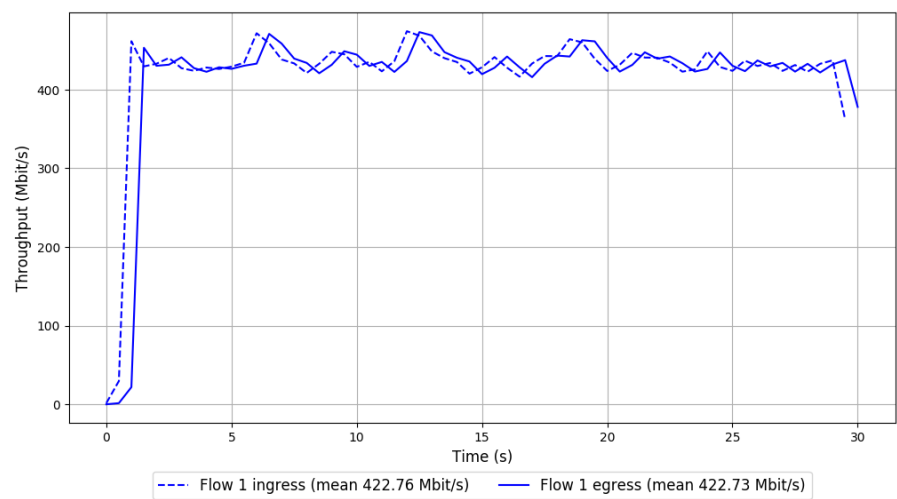
-- Flow 1:

Average throughput: 422.73 Mbit/s

95th percentile per-packet one-way delay: 18.934 ms

Loss rate: 0.01%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-06-05 07:40:17

End at: 2018-06-05 07:40:47

Local clock offset: 0.045 ms

Remote clock offset: 0.929 ms

Below is generated by plot.py at 2018-06-05 09:58:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 456.02 Mbit/s

95th percentile per-packet one-way delay: 25.101 ms

Loss rate: 0.00%

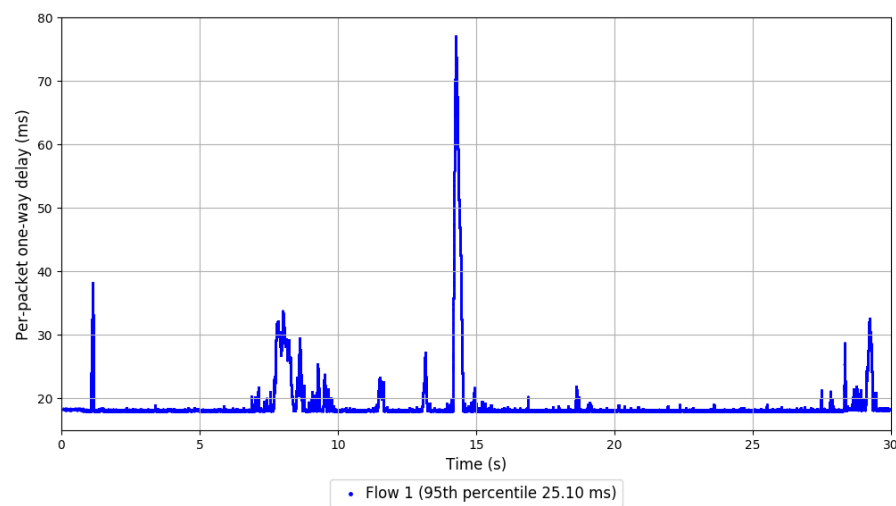
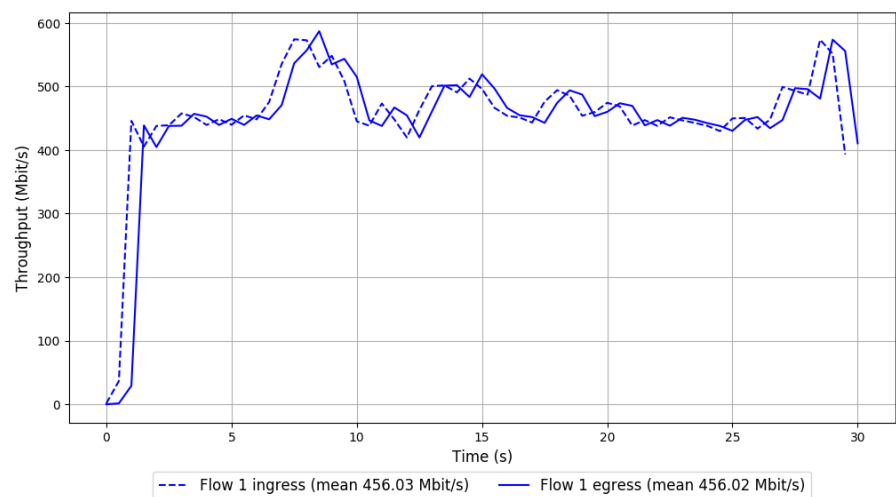
-- Flow 1:

Average throughput: 456.02 Mbit/s

95th percentile per-packet one-way delay: 25.101 ms

Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-06-05 08:04:05

End at: 2018-06-05 08:04:36

Local clock offset: 0.059 ms

Remote clock offset: 0.107 ms

Below is generated by plot.py at 2018-06-05 09:58:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 443.35 Mbit/s

95th percentile per-packet one-way delay: 19.232 ms

Loss rate: 0.00%

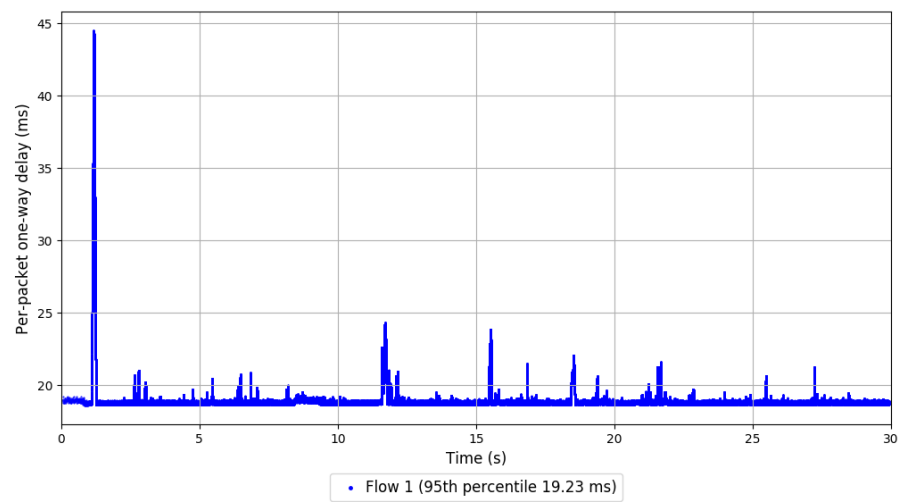
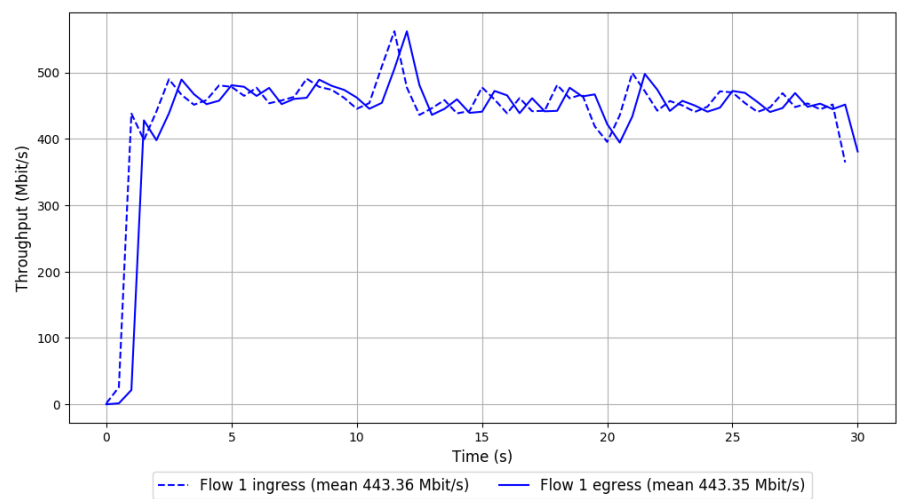
-- Flow 1:

Average throughput: 443.35 Mbit/s

95th percentile per-packet one-way delay: 19.232 ms

Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link

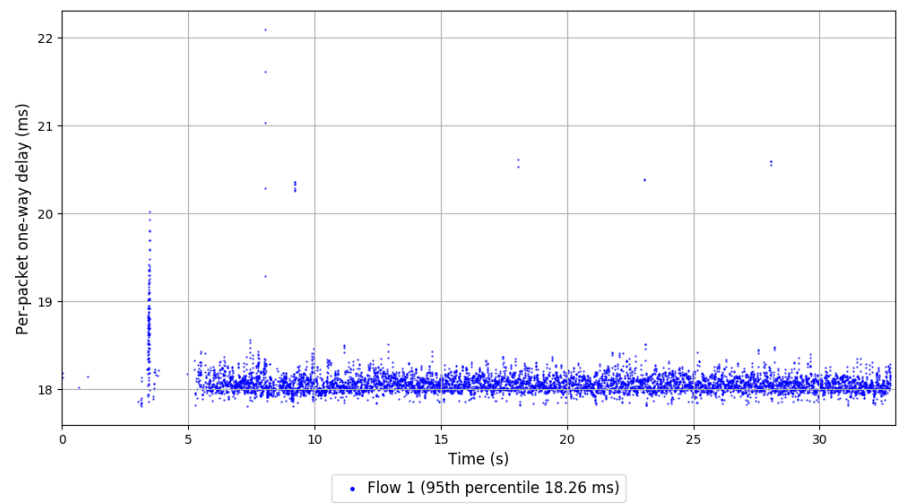
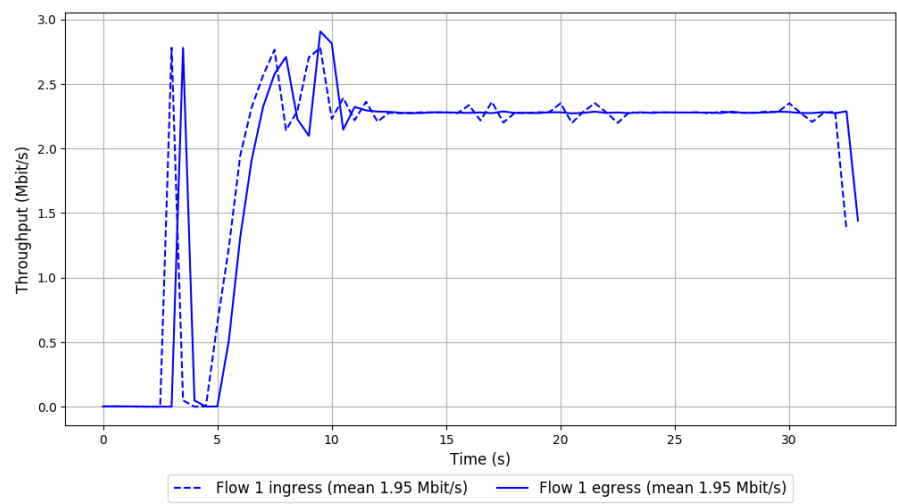


```
Run 1: Statistics of WebRTC media

Start at: 2018-06-05 04:28:29
End at: 2018-06-05 04:28:59
Local clock offset: 0.422 ms
Remote clock offset: 0.177 ms

# Below is generated by plot.py at 2018-06-05 09:58:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 18.256 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 18.256 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-06-05 04:52:15

End at: 2018-06-05 04:52:45

Local clock offset: 0.353 ms

Remote clock offset: 0.414 ms

Below is generated by plot.py at 2018-06-05 09:58:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 17.728 ms

Loss rate: 0.00%

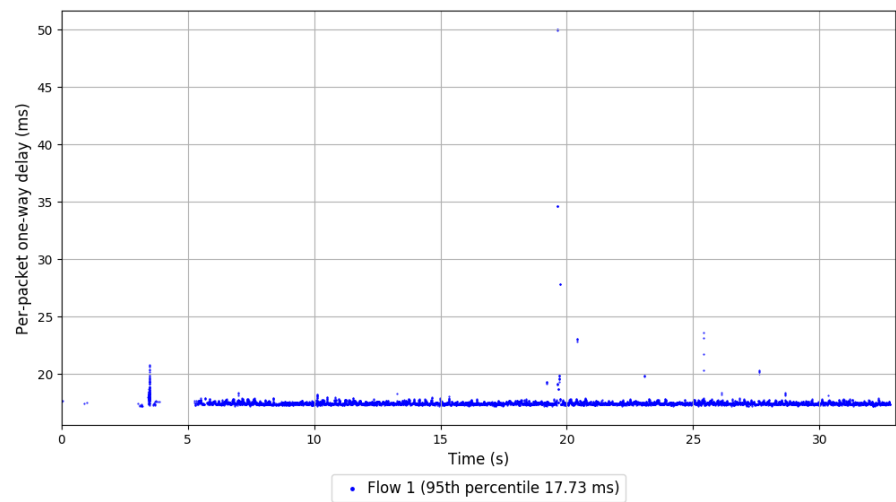
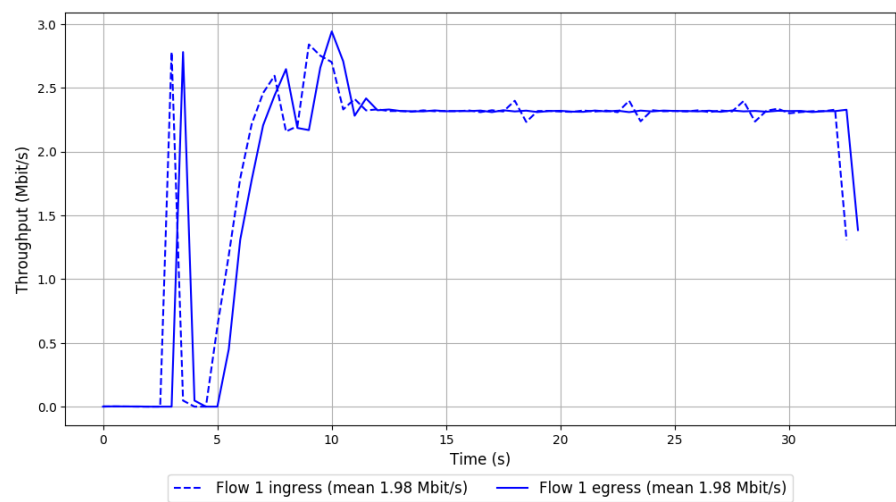
-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 17.728 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-06-05 05:16:00

End at: 2018-06-05 05:16:30

Local clock offset: 0.178 ms

Remote clock offset: 0.116 ms

Below is generated by plot.py at 2018-06-05 09:58:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 17.667 ms

Loss rate: 0.00%

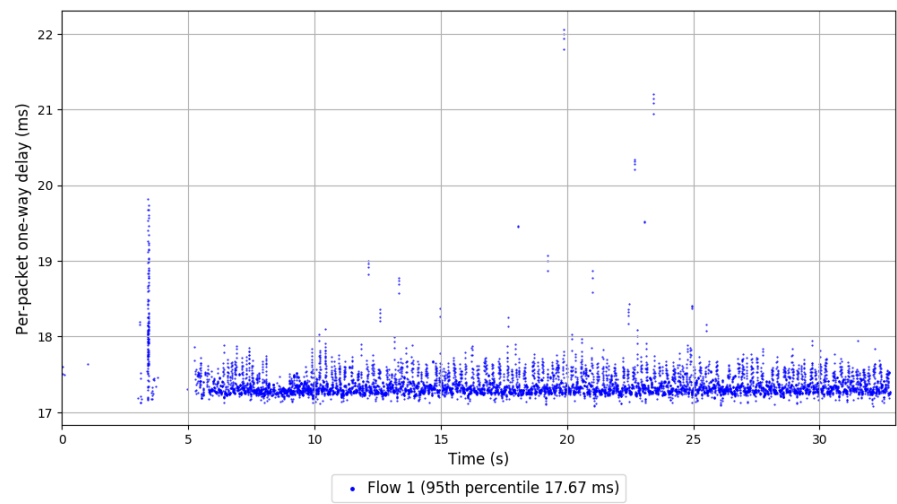
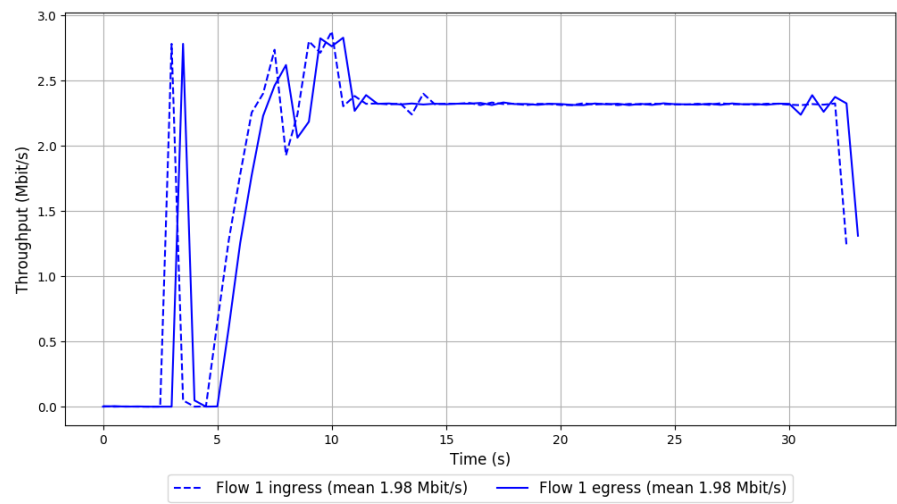
-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 17.667 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-06-05 05:39:57

End at: 2018-06-05 05:40:27

Local clock offset: 0.114 ms

Remote clock offset: 0.129 ms

Below is generated by plot.py at 2018-06-05 09:58:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 17.785 ms

Loss rate: 0.00%

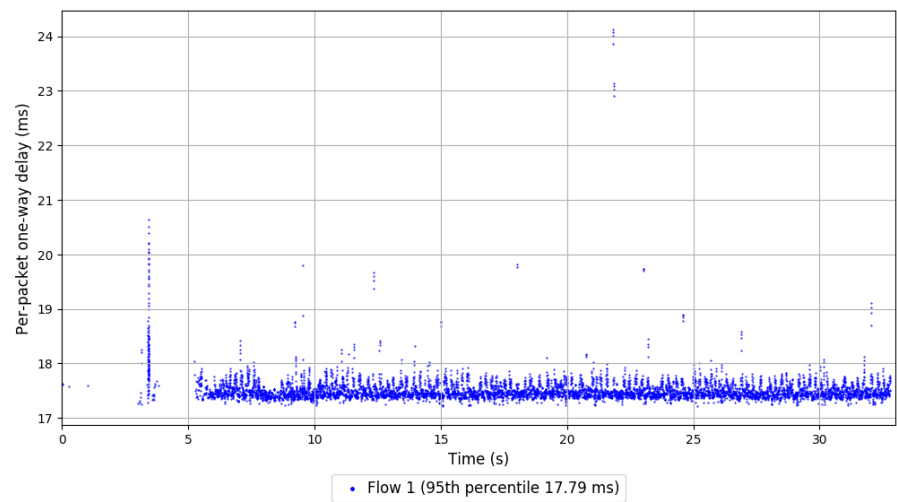
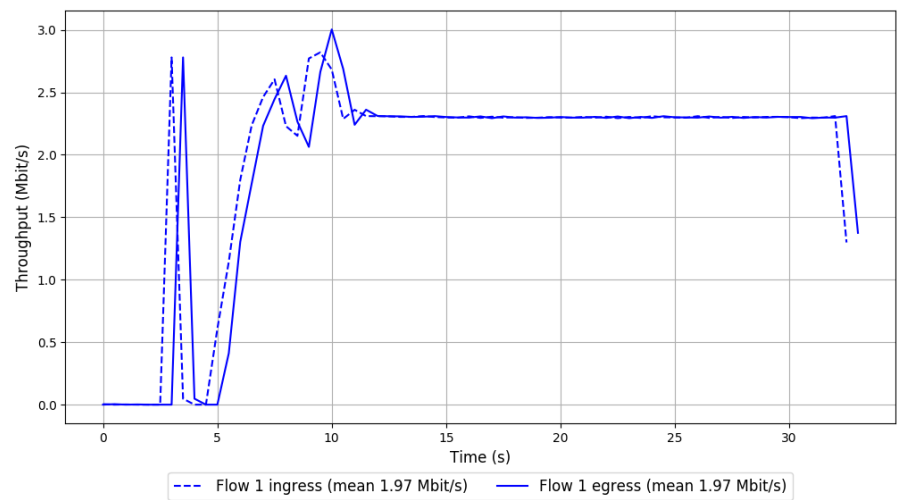
-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 17.785 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

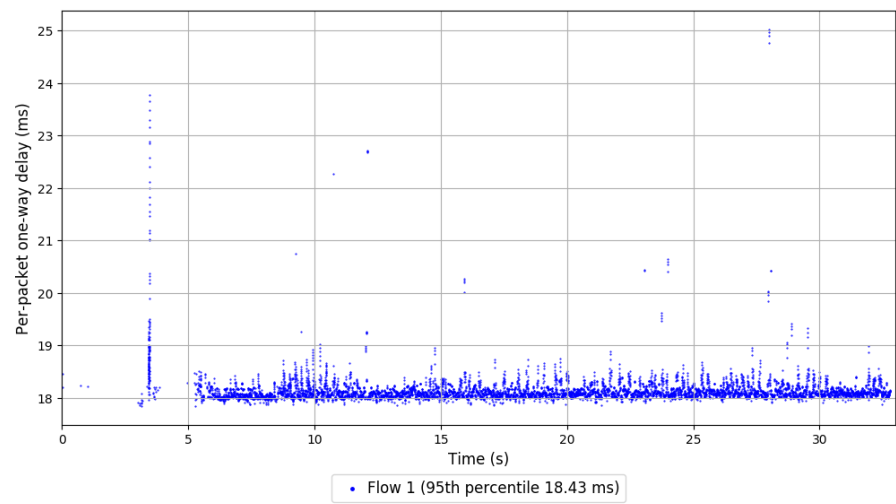
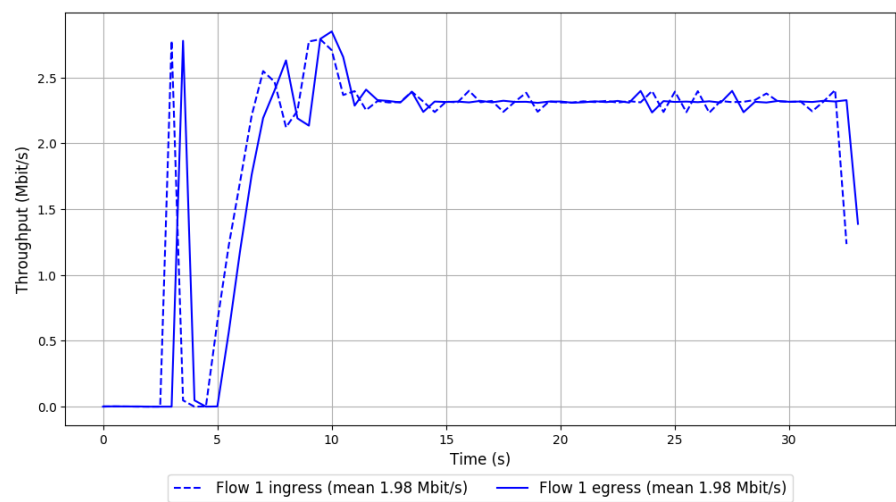


Run 5: Statistics of WebRTC media

Start at: 2018-06-05 06:03:47
End at: 2018-06-05 06:04:17
Local clock offset: 0.377 ms
Remote clock offset: -0.004 ms

Below is generated by plot.py at 2018-06-05 09:58:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 18.433 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 18.433 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-06-05 06:27:38

End at: 2018-06-05 06:28:08

Local clock offset: 0.397 ms

Remote clock offset: -0.872 ms

Below is generated by plot.py at 2018-06-05 09:58:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 18.361 ms

Loss rate: 0.00%

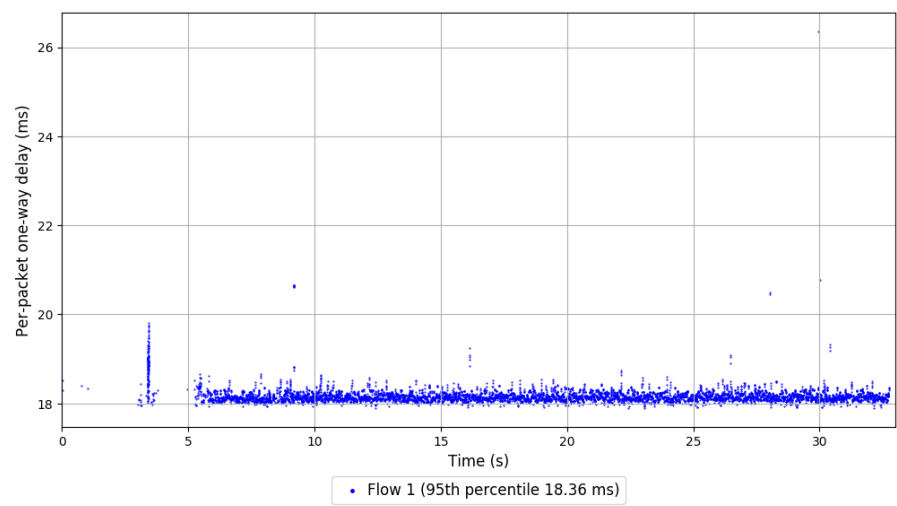
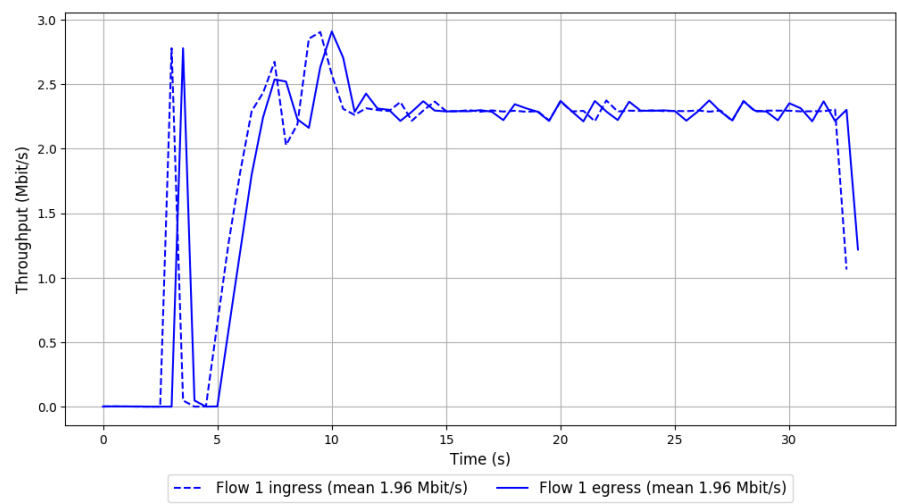
-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 18.361 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

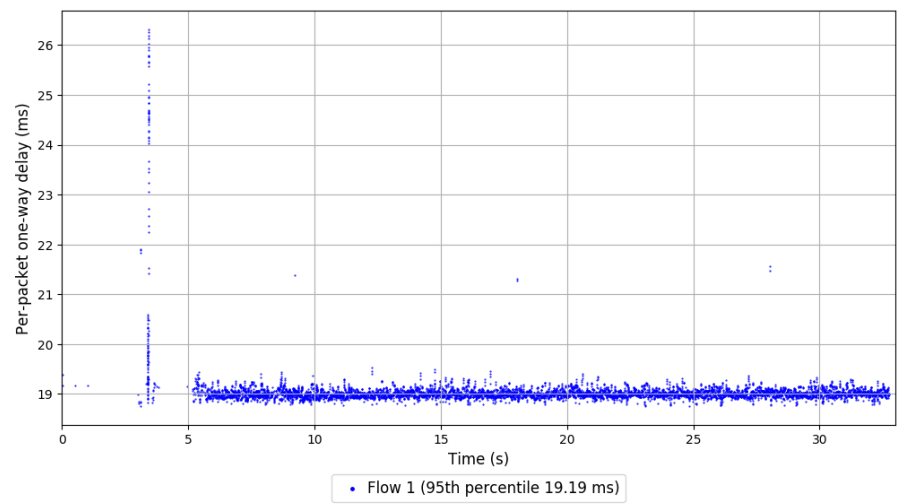
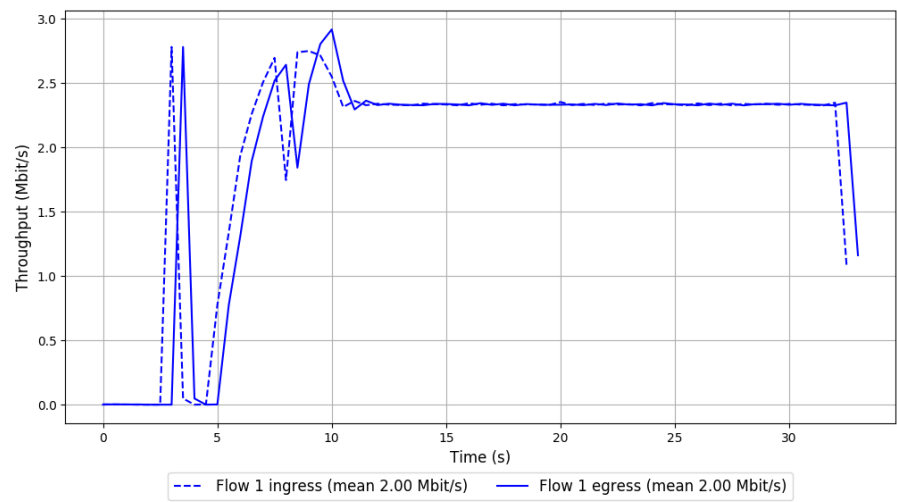


Run 7: Statistics of WebRTC media

Start at: 2018-06-05 06:51:25
End at: 2018-06-05 06:51:55
Local clock offset: 0.381 ms
Remote clock offset: -1.234 ms

Below is generated by plot.py at 2018-06-05 09:58:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 19.188 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 19.188 ms
Loss rate: 0.02%

Run 7: Report of WebRTC media — Data Link

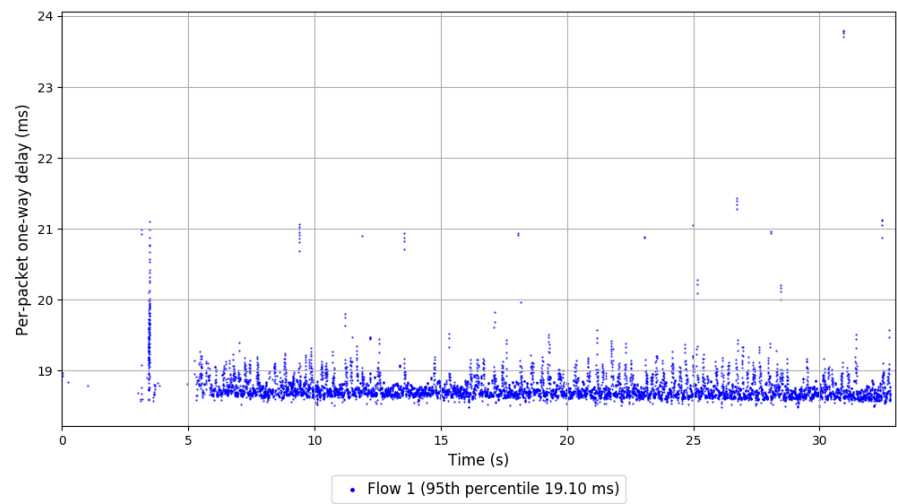
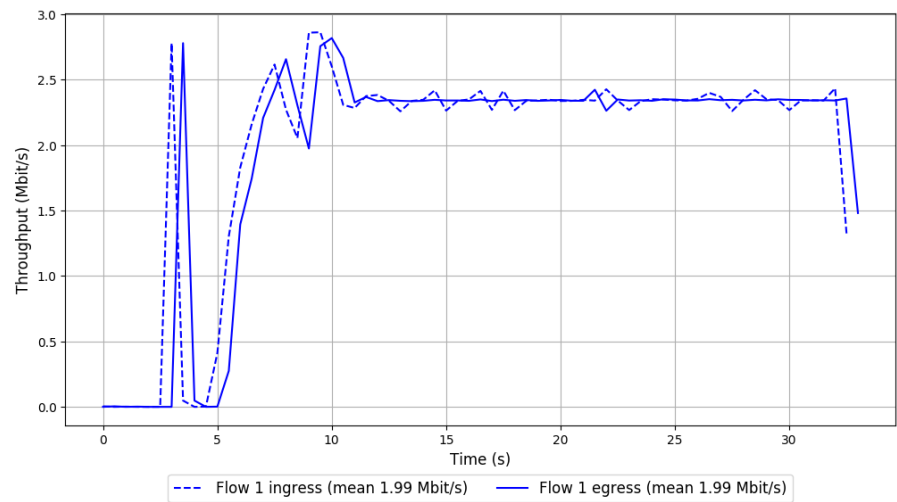


Run 8: Statistics of WebRTC media

Start at: 2018-06-05 07:15:10
End at: 2018-06-05 07:15:40
Local clock offset: 0.388 ms
Remote clock offset: -0.584 ms

Below is generated by plot.py at 2018-06-05 09:58:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 19.098 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 19.098 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-06-05 07:39:00

End at: 2018-06-05 07:39:30

Local clock offset: 0.145 ms

Remote clock offset: 0.969 ms

Below is generated by plot.py at 2018-06-05 09:58:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 18.396 ms

Loss rate: 0.00%

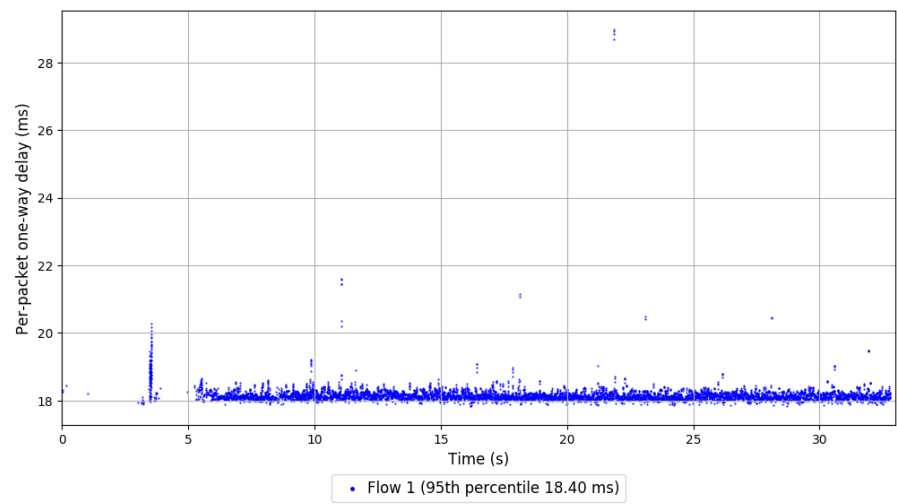
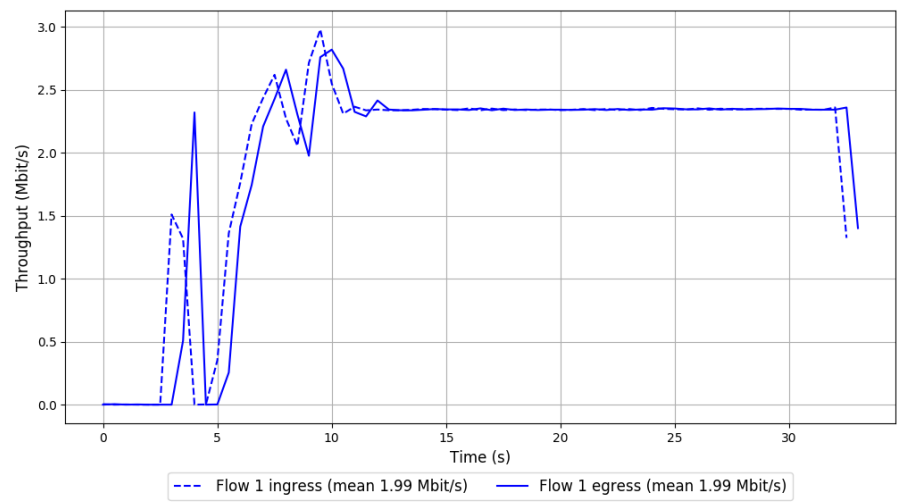
-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 18.396 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-05 08:02:48

End at: 2018-06-05 08:03:18

Local clock offset: -0.026 ms

Remote clock offset: 0.14 ms

Below is generated by plot.py at 2018-06-05 09:58:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 18.394 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 18.394 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

