

Pantheon Report

Generated at 2018-05-24 04:10:12 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

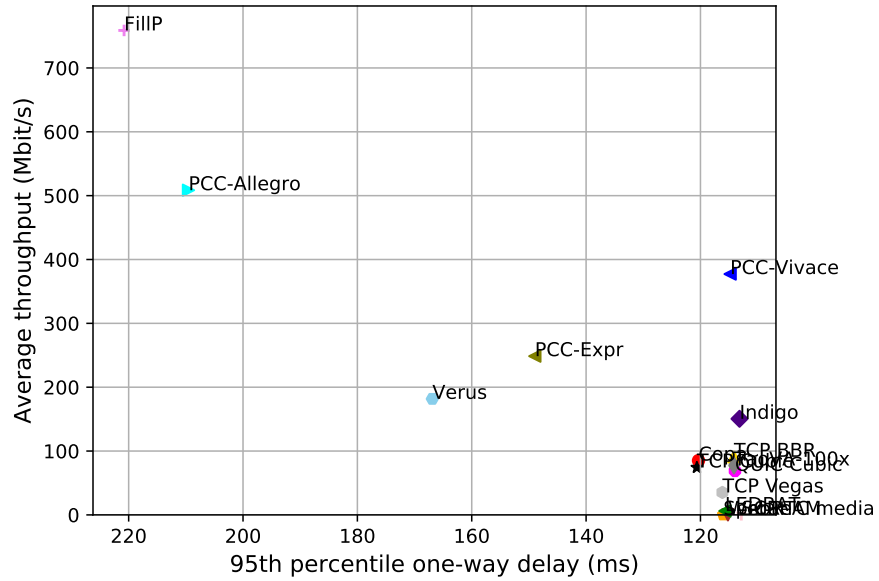
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

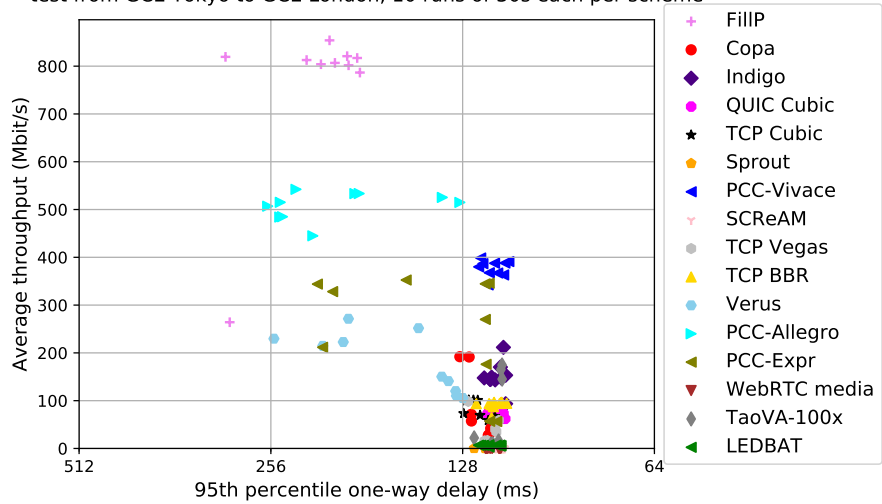
Git summary:

```
branch: master @ 0088822873ea99180f63545a341ef069f40efe59
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



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



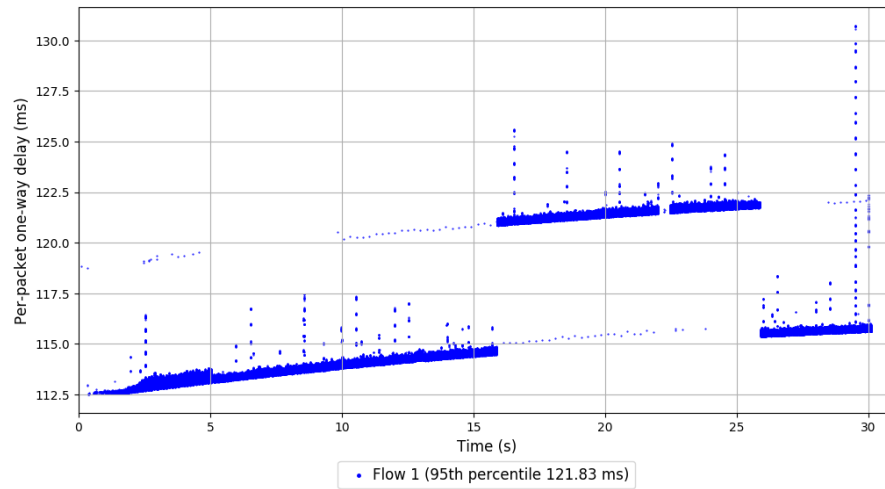
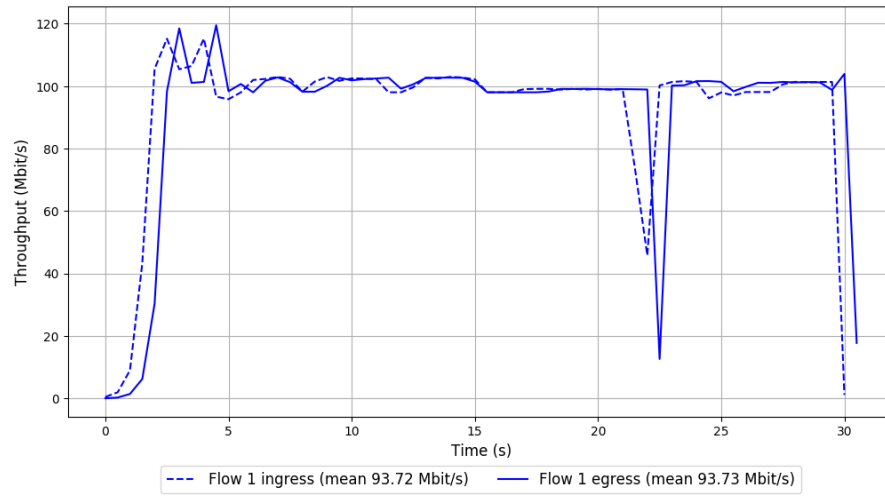
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	90.94	114.15	0.01
Copa	9	85.09	120.34	0.07
TCP Cubic	10	74.26	120.62	0.02
FillP	10	758.77	220.80	2.18
Indigo	10	150.49	113.17	0.01
LEDBAT	10	6.18	115.72	0.01
PCC-Allegro	10	508.54	209.54	1.27
PCC-Expr	10	248.61	148.97	0.42
QUIC Cubic	9	68.98	113.96	0.01
SCReAM	10	0.22	112.86	0.03
Sprout	10	0.19	116.00	0.03
TaoVA-100x	7	77.44	114.13	0.00
TCP Vegas	10	35.18	116.16	0.01
Verus	10	181.73	166.89	0.14
PCC-Vivace	10	377.22	114.81	0.01
WebRTC media	9	0.05	115.19	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-05-23 23:38:40
End at: 2018-05-23 23:39:10
Local clock offset: -19.593 ms
Remote clock offset: 27.082 ms

Below is generated by plot.py at 2018-05-24 03:05:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.73 Mbit/s
95th percentile per-packet one-way delay: 121.831 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 93.73 Mbit/s
95th percentile per-packet one-way delay: 121.831 ms
Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link

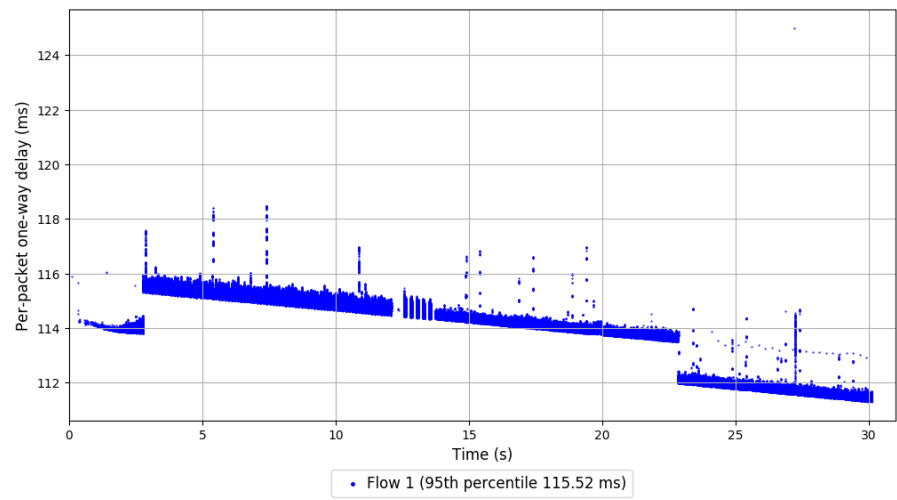
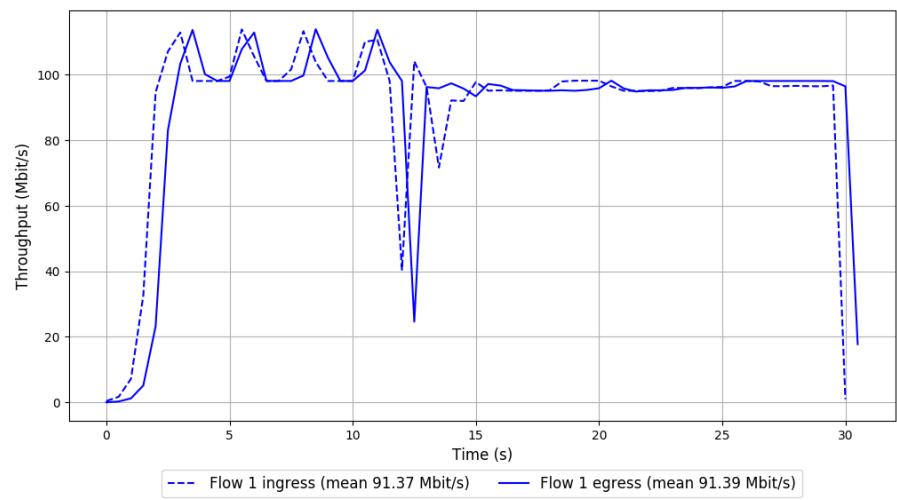


Run 2: Statistics of TCP BBR

Start at: 2018-05-23 23:59:03
End at: 2018-05-23 23:59:33
Local clock offset: -41.947 ms
Remote clock offset: 40.608 ms

Below is generated by plot.py at 2018-05-24 03:05:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.39 Mbit/s
95th percentile per-packet one-way delay: 115.519 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 91.39 Mbit/s
95th percentile per-packet one-way delay: 115.519 ms
Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link

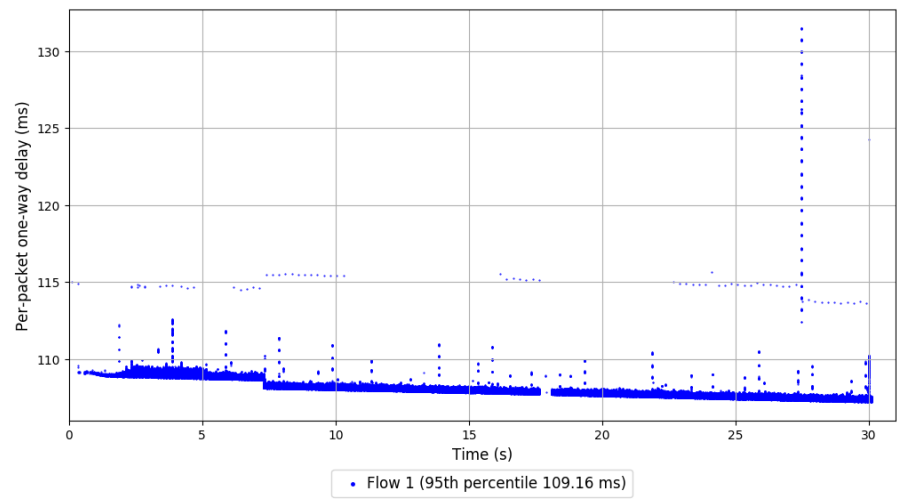
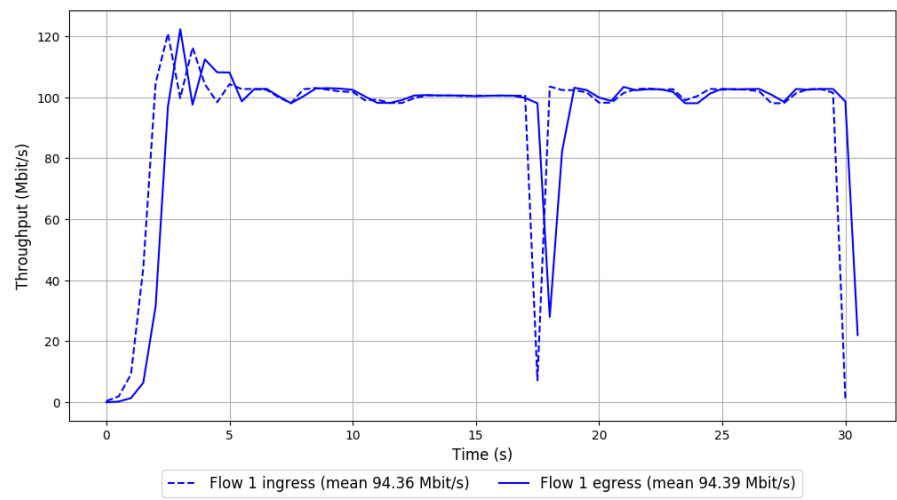


Run 3: Statistics of TCP BBR

Start at: 2018-05-24 00:19:19
End at: 2018-05-24 00:19:49
Local clock offset: -25.926 ms
Remote clock offset: 26.655 ms

Below is generated by plot.py at 2018-05-24 03:05:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.39 Mbit/s
95th percentile per-packet one-way delay: 109.164 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 94.39 Mbit/s
95th percentile per-packet one-way delay: 109.164 ms
Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link

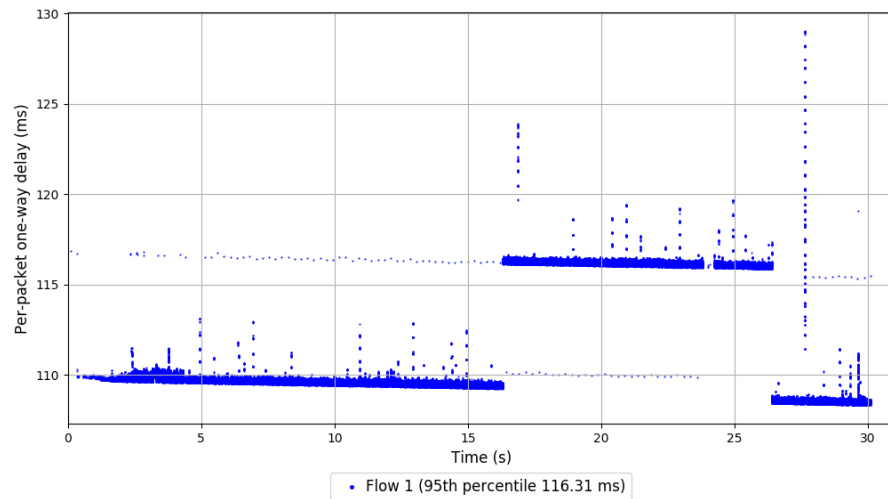
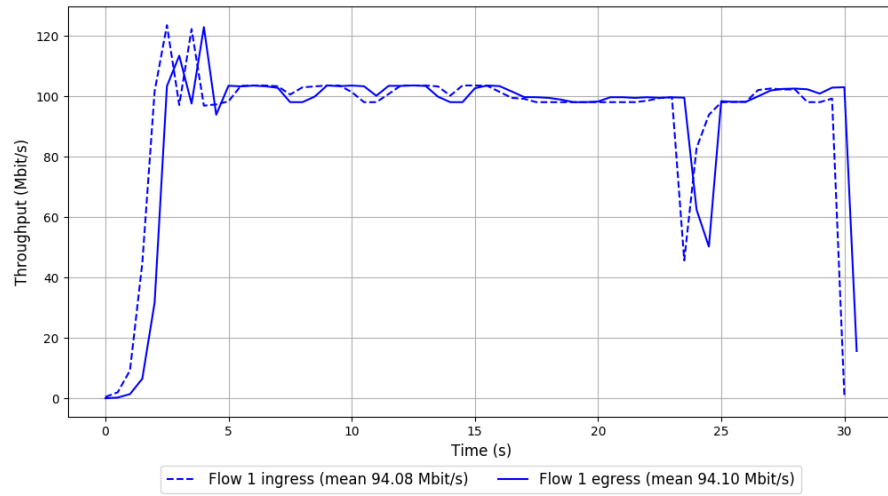


Run 4: Statistics of TCP BBR

Start at: 2018-05-24 00:39:50
End at: 2018-05-24 00:40:20
Local clock offset: -25.055 ms
Remote clock offset: 27.474 ms

Below is generated by plot.py at 2018-05-24 03:05:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.10 Mbit/s
95th percentile per-packet one-way delay: 116.312 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 94.10 Mbit/s
95th percentile per-packet one-way delay: 116.312 ms
Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link

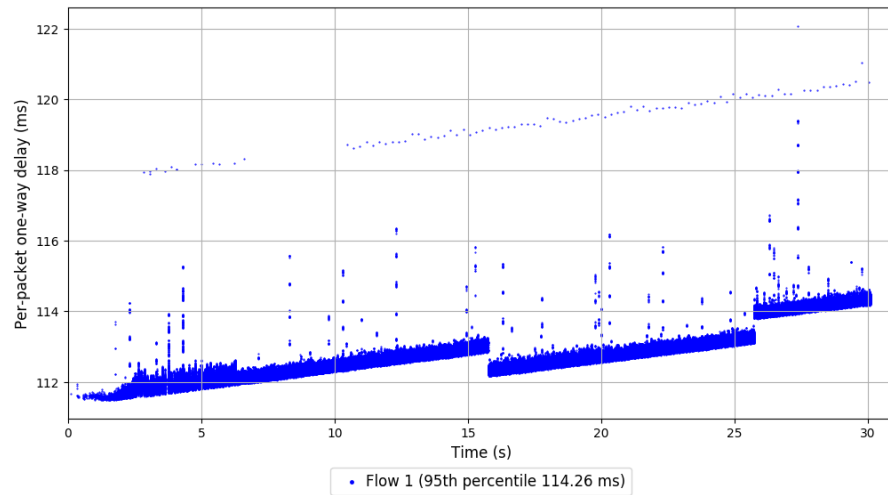
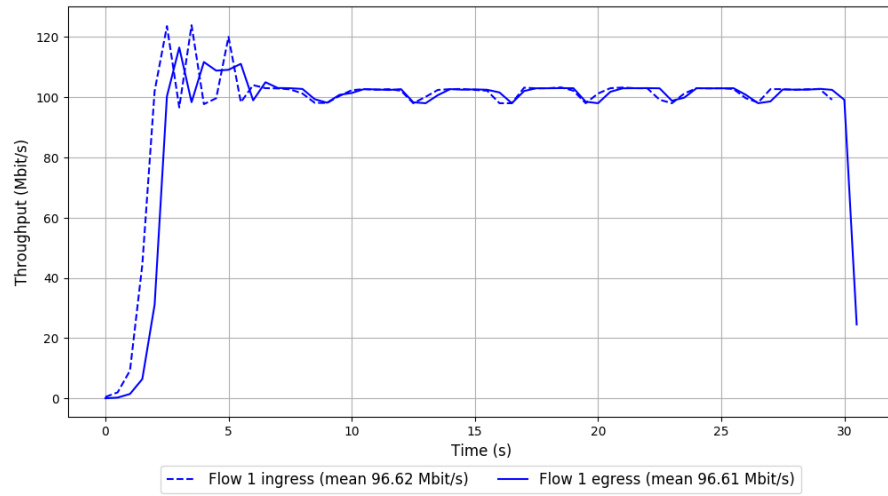


Run 5: Statistics of TCP BBR

Start at: 2018-05-24 01:00:21
End at: 2018-05-24 01:00:51
Local clock offset: -23.341 ms
Remote clock offset: 40.081 ms

Below is generated by plot.py at 2018-05-24 03:06:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.61 Mbit/s
95th percentile per-packet one-way delay: 114.257 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.61 Mbit/s
95th percentile per-packet one-way delay: 114.257 ms
Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link

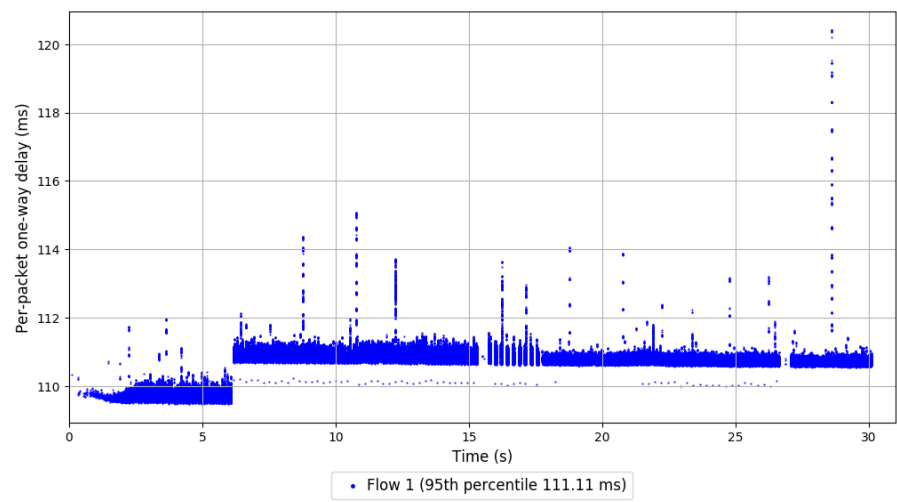
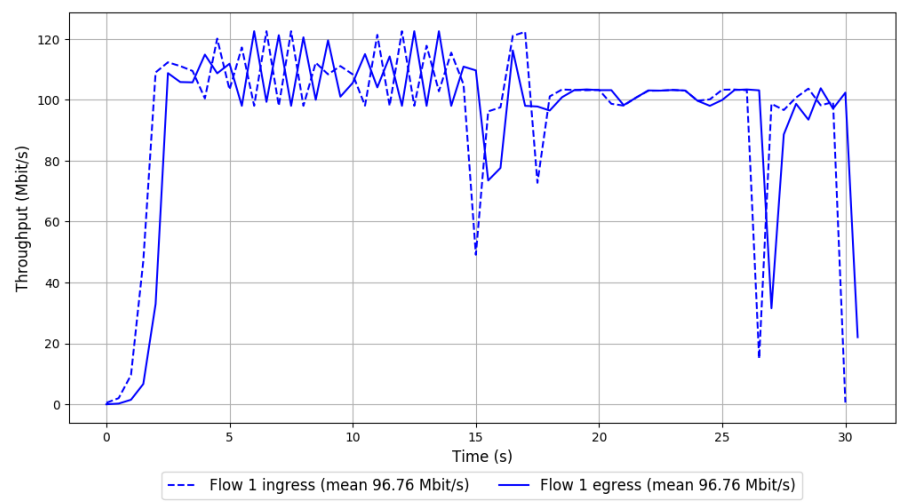


Run 6: Statistics of TCP BBR

Start at: 2018-05-24 01:21:10
End at: 2018-05-24 01:21:40
Local clock offset: -16.885 ms
Remote clock offset: 11.014 ms

Below is generated by plot.py at 2018-05-24 03:06:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.76 Mbit/s
95th percentile per-packet one-way delay: 111.113 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.76 Mbit/s
95th percentile per-packet one-way delay: 111.113 ms
Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-05-24 01:41:59

End at: 2018-05-24 01:42:29

Local clock offset: -5.943 ms

Remote clock offset: 5.873 ms

Below is generated by plot.py at 2018-05-24 03:06:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.09 Mbit/s

95th percentile per-packet one-way delay: 111.992 ms

Loss rate: 0.00%

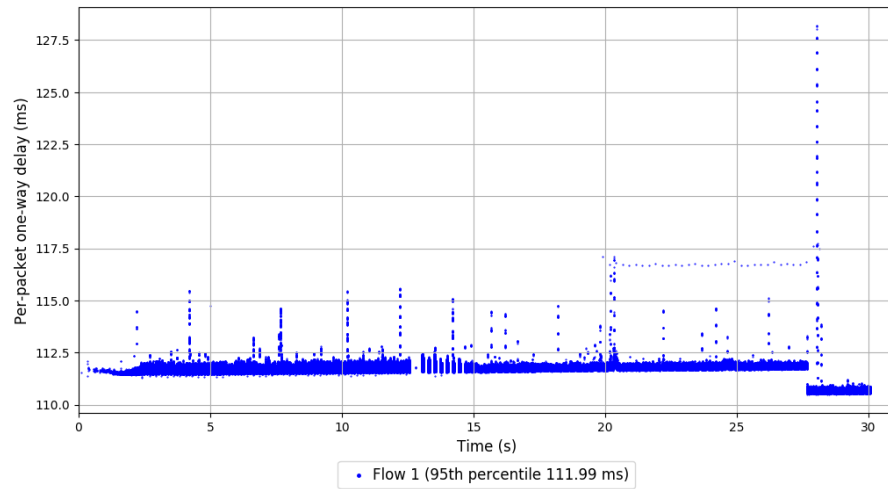
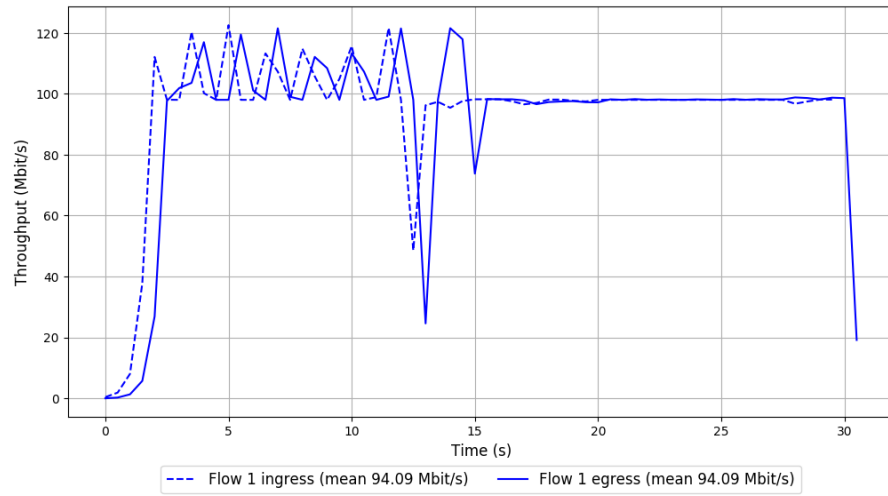
-- Flow 1:

Average throughput: 94.09 Mbit/s

95th percentile per-packet one-way delay: 111.992 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-05-24 02:03:04

End at: 2018-05-24 02:03:34

Local clock offset: -4.533 ms

Remote clock offset: 5.013 ms

Below is generated by plot.py at 2018-05-24 03:06:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.29 Mbit/s

95th percentile per-packet one-way delay: 111.482 ms

Loss rate: 0.00%

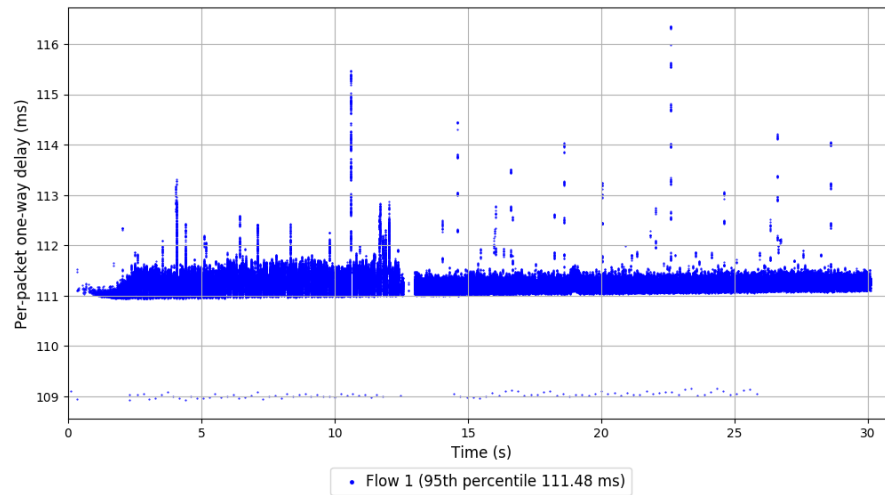
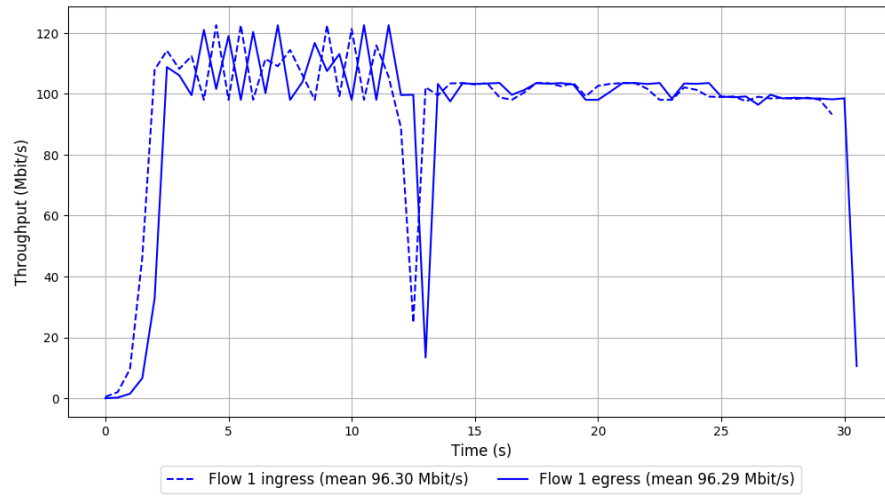
-- Flow 1:

Average throughput: 96.29 Mbit/s

95th percentile per-packet one-way delay: 111.482 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-05-24 02:23:52

End at: 2018-05-24 02:24:22

Local clock offset: -1.615 ms

Remote clock offset: 1.873 ms

Below is generated by plot.py at 2018-05-24 03:06:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.59 Mbit/s

95th percentile per-packet one-way delay: 115.300 ms

Loss rate: 0.05%

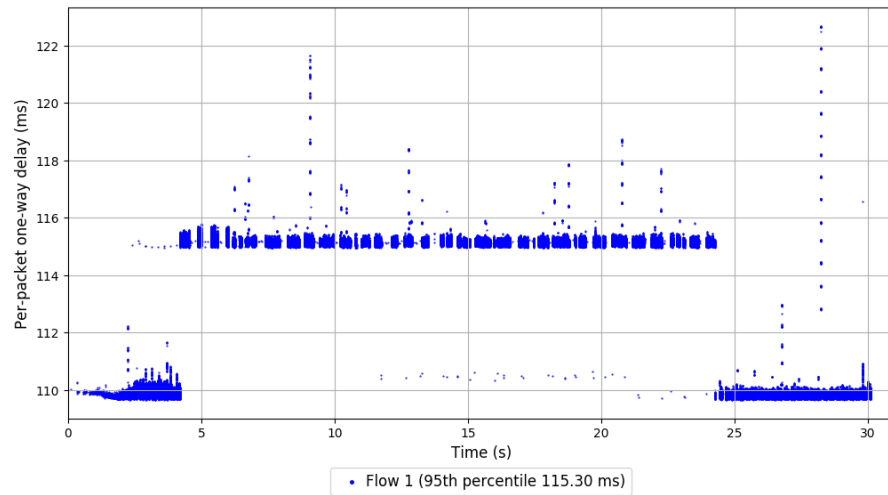
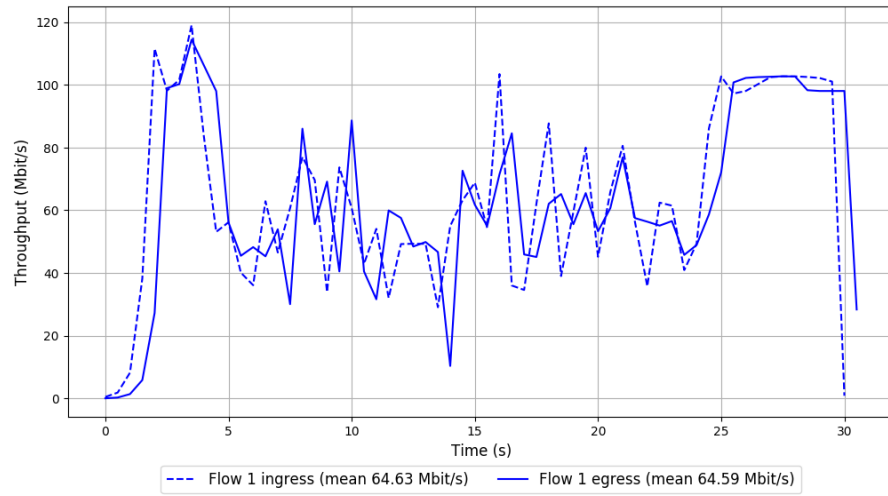
-- Flow 1:

Average throughput: 64.59 Mbit/s

95th percentile per-packet one-way delay: 115.300 ms

Loss rate: 0.05%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-05-24 02:44:11

End at: 2018-05-24 02:44:41

Local clock offset: -0.81 ms

Remote clock offset: 1.353 ms

Below is generated by plot.py at 2018-05-24 03:07:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.41 Mbit/s

95th percentile per-packet one-way delay: 114.519 ms

Loss rate: 0.01%

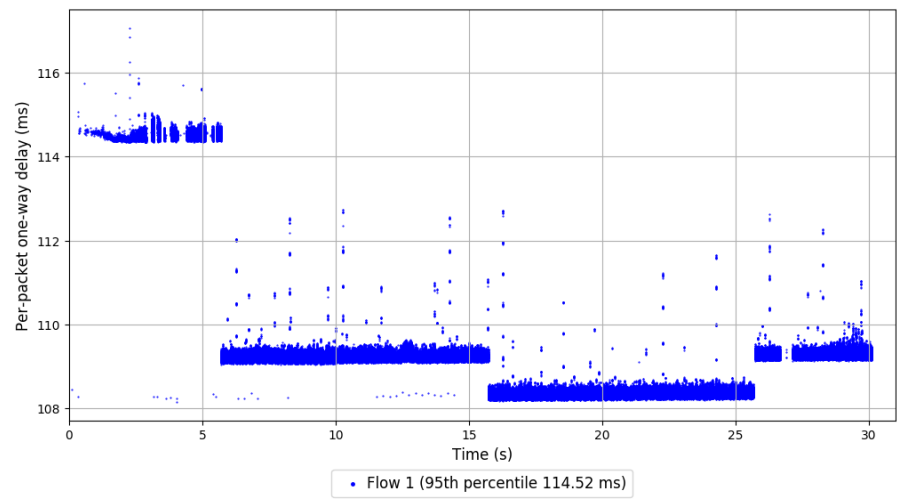
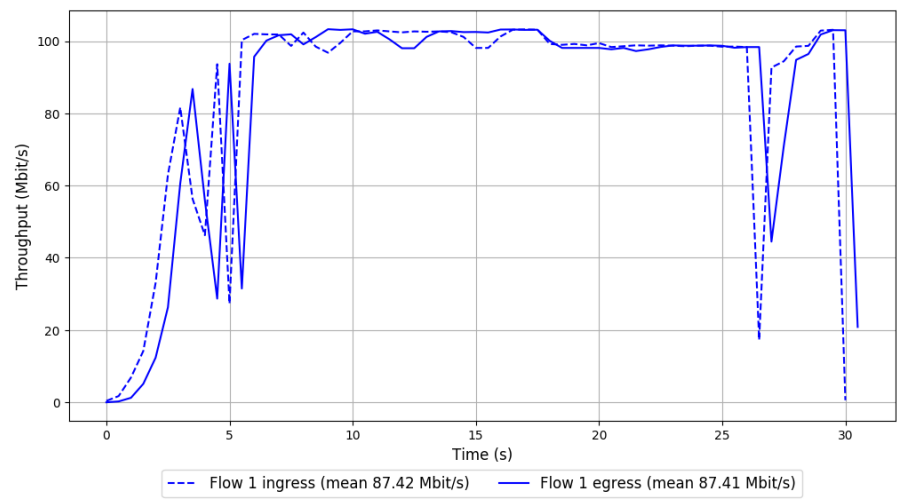
-- Flow 1:

Average throughput: 87.41 Mbit/s

95th percentile per-packet one-way delay: 114.519 ms

Loss rate: 0.01%

Run 10: Report of TCP BBR — Data Link

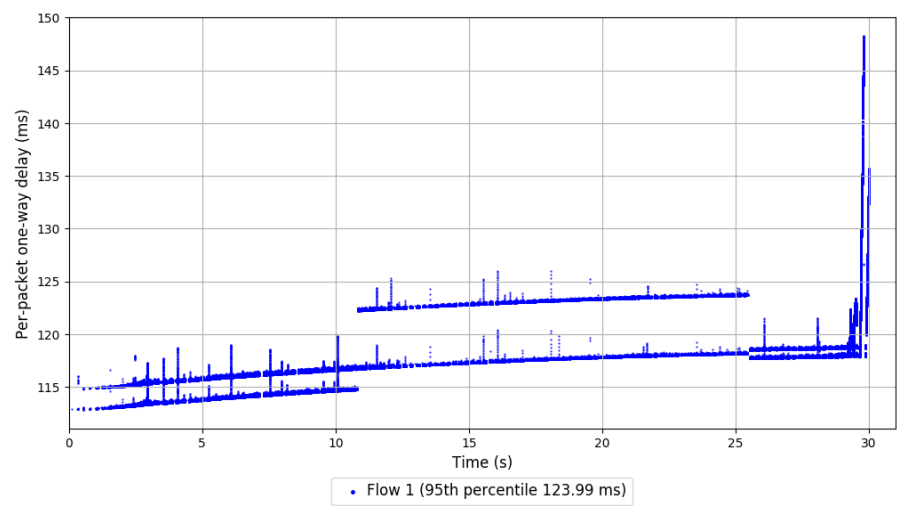
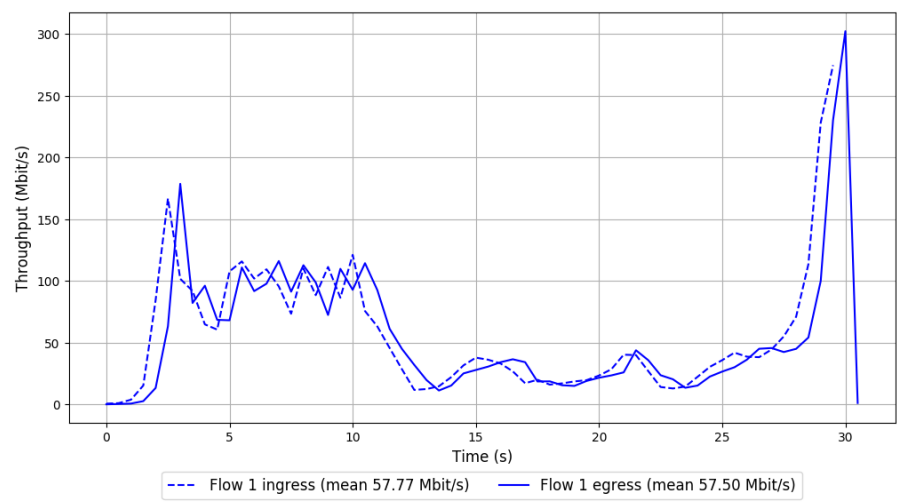


Run 1: Statistics of Copa

Start at: 2018-05-23 23:33:31
End at: 2018-05-23 23:34:01
Local clock offset: -15.071 ms
Remote clock offset: 35.012 ms

Below is generated by plot.py at 2018-05-24 03:07:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 57.50 Mbit/s
95th percentile per-packet one-way delay: 123.988 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 57.50 Mbit/s
95th percentile per-packet one-way delay: 123.988 ms
Loss rate: 0.45%

Run 1: Report of Copa — Data Link

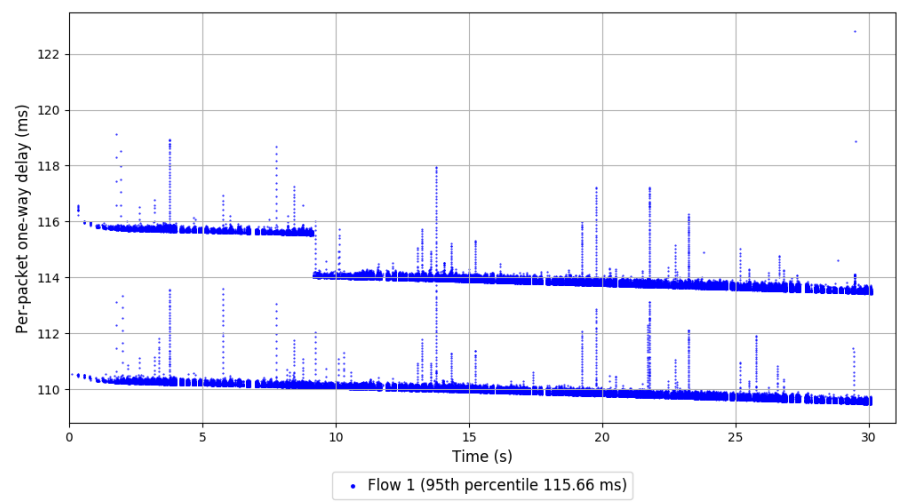
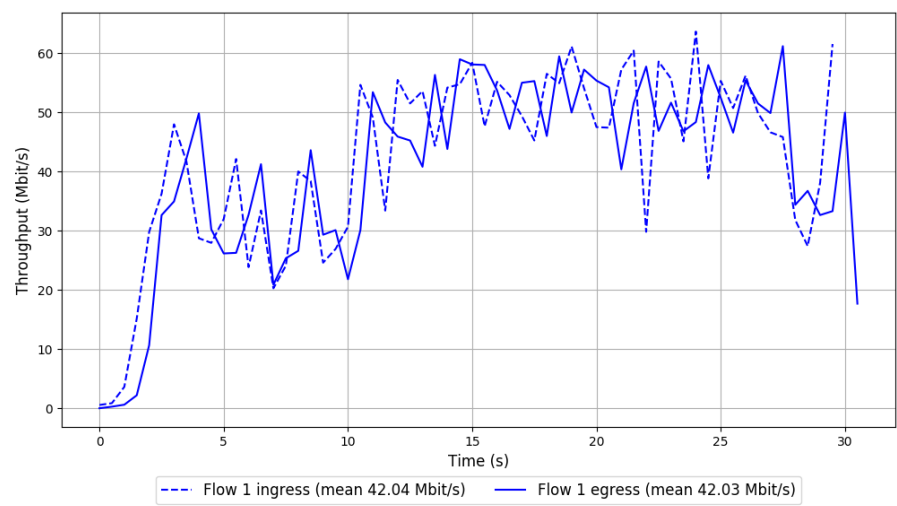


Run 2: Statistics of Copa

Start at: 2018-05-23 23:53:47
End at: 2018-05-23 23:54:17
Local clock offset: -30.052 ms
Remote clock offset: 33.094 ms

Below is generated by plot.py at 2018-05-24 03:07:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 42.03 Mbit/s
95th percentile per-packet one-way delay: 115.658 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.03 Mbit/s
95th percentile per-packet one-way delay: 115.658 ms
Loss rate: 0.00%

Run 2: Report of Copa — Data Link

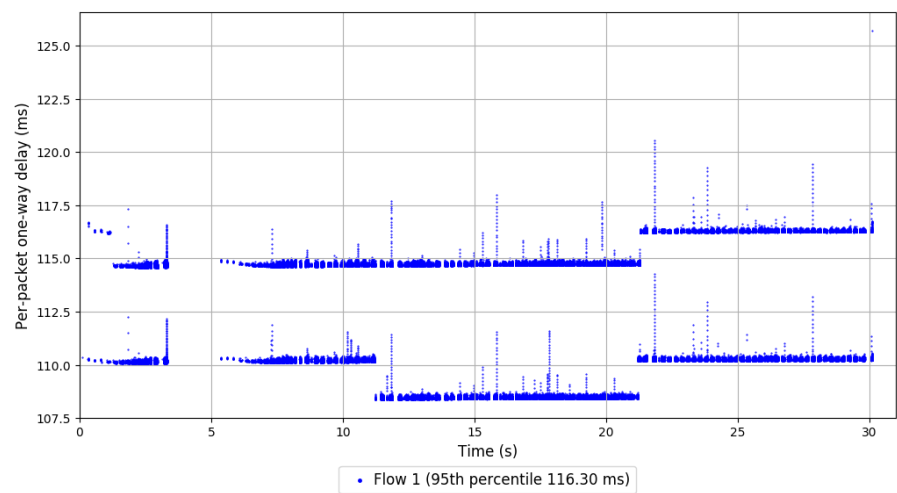
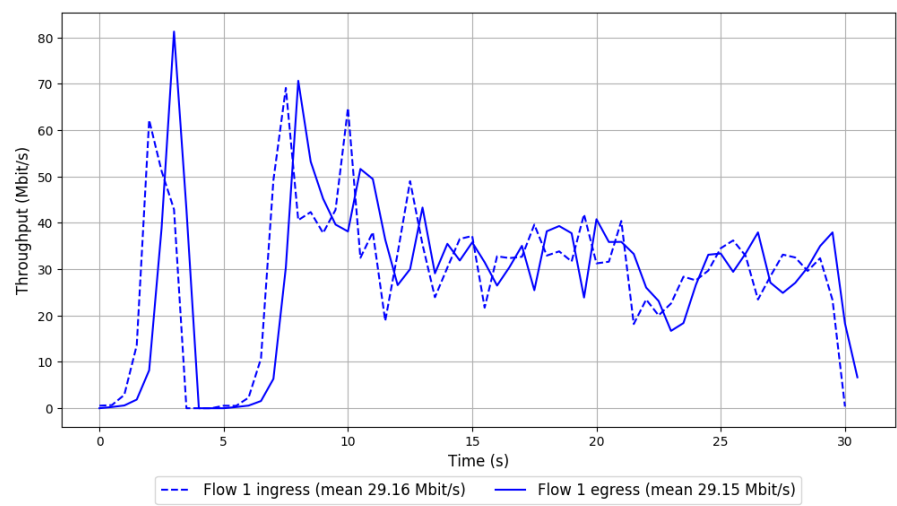


Run 3: Statistics of Copa

Start at: 2018-05-24 00:14:05
End at: 2018-05-24 00:14:35
Local clock offset: -20.92 ms
Remote clock offset: 26.466 ms

Below is generated by plot.py at 2018-05-24 03:07:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 29.15 Mbit/s
95th percentile per-packet one-way delay: 116.296 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 29.15 Mbit/s
95th percentile per-packet one-way delay: 116.296 ms
Loss rate: 0.03%

Run 3: Report of Copa — Data Link

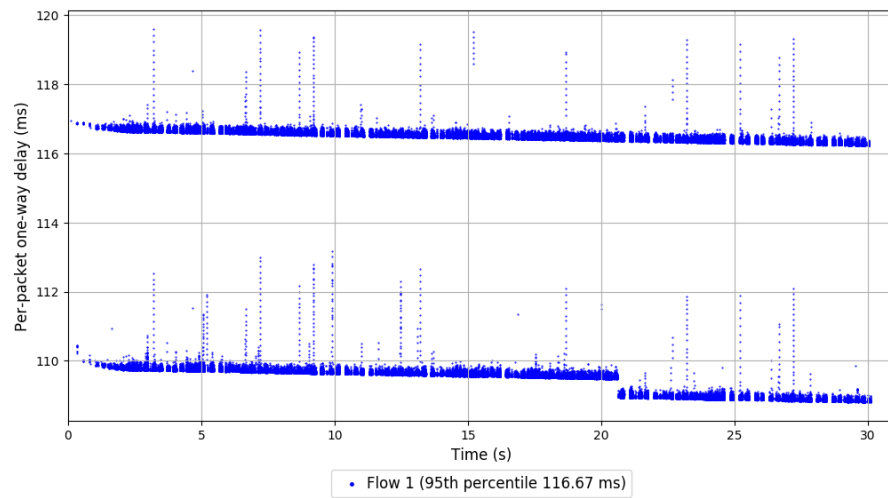
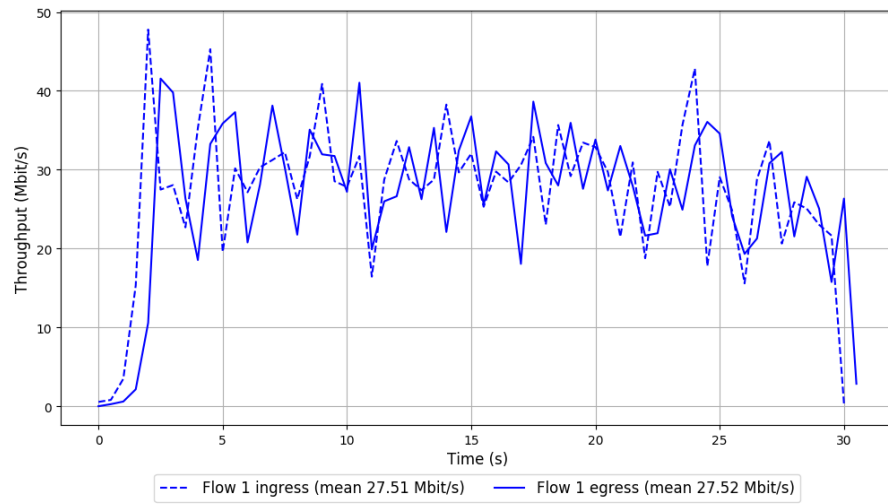


Run 4: Statistics of Copa

Start at: 2018-05-24 00:34:36
End at: 2018-05-24 00:35:06
Local clock offset: -21.663 ms
Remote clock offset: 24.394 ms

Below is generated by plot.py at 2018-05-24 03:07:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 27.52 Mbit/s
95th percentile per-packet one-way delay: 116.668 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 27.52 Mbit/s
95th percentile per-packet one-way delay: 116.668 ms
Loss rate: 0.00%

Run 4: Report of Copa — Data Link

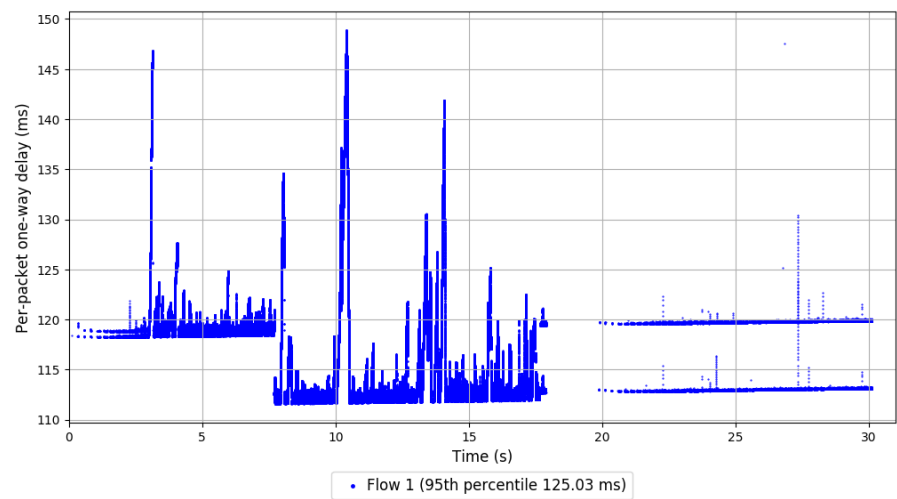
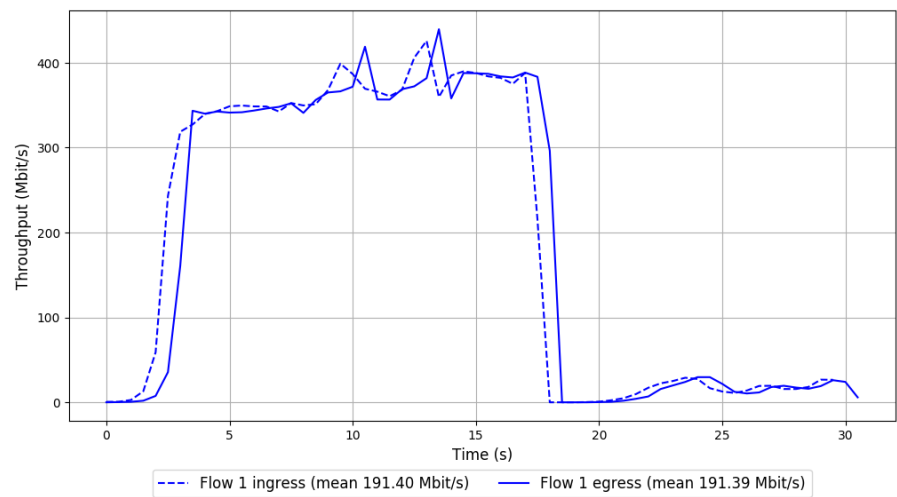


Run 5: Statistics of Copa

Start at: 2018-05-24 00:54:49
End at: 2018-05-24 00:55:19
Local clock offset: -38.808 ms
Remote clock offset: 44.204 ms

Below is generated by plot.py at 2018-05-24 03:11:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 191.39 Mbit/s
95th percentile per-packet one-way delay: 125.026 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 191.39 Mbit/s
95th percentile per-packet one-way delay: 125.026 ms
Loss rate: 0.00%

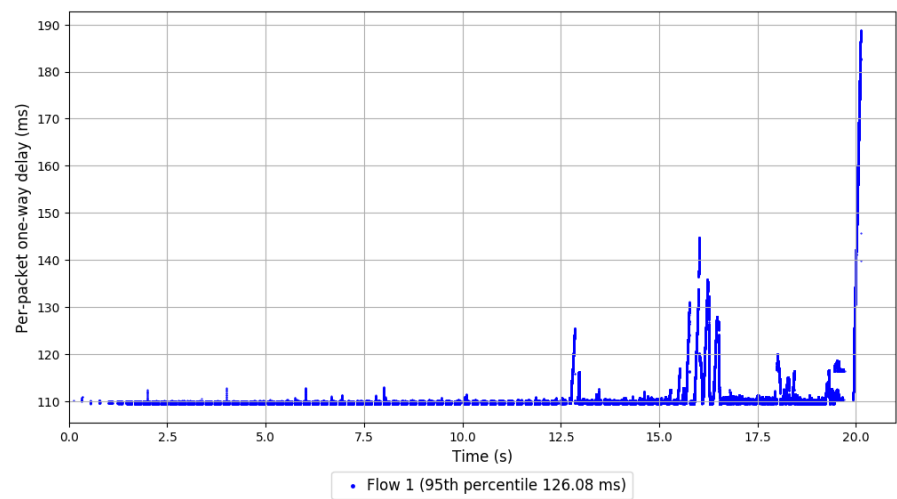
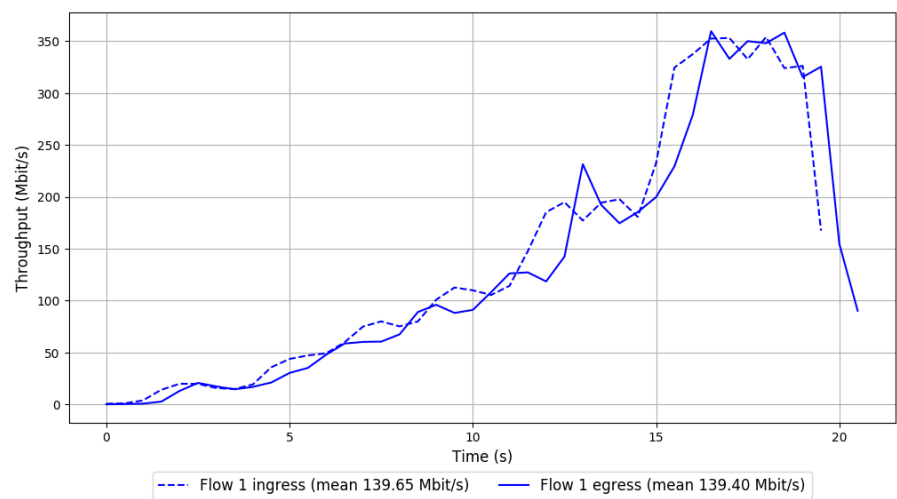
Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-05-24 01:15:47
End at: 2018-05-24 01:16:17
Local clock offset: -15.066 ms
Remote clock offset: 12.263 ms

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-05-24 01:36:37

End at: 2018-05-24 01:37:07

Local clock offset: -8.947 ms

Remote clock offset: 7.891 ms

Below is generated by plot.py at 2018-05-24 03:11:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.65 Mbit/s

95th percentile per-packet one-way delay: 115.890 ms

Loss rate: 0.00%

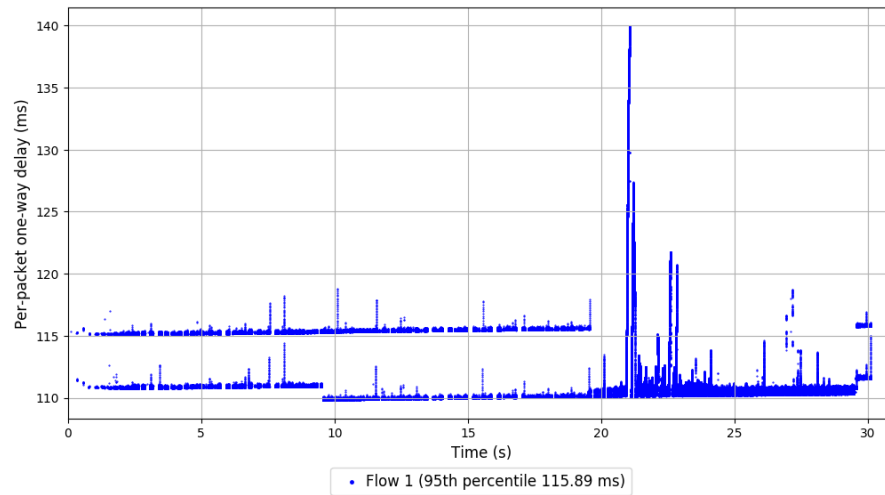
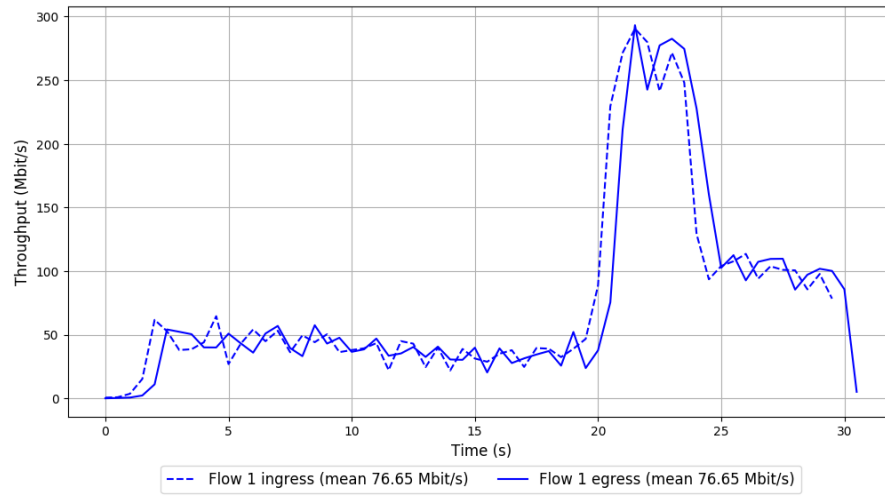
-- Flow 1:

Average throughput: 76.65 Mbit/s

95th percentile per-packet one-way delay: 115.890 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-05-24 01:57:35

End at: 2018-05-24 01:58:05

Local clock offset: -4.126 ms

Remote clock offset: 4.848 ms

Below is generated by plot.py at 2018-05-24 03:12:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.00 Mbit/s

95th percentile per-packet one-way delay: 129.296 ms

Loss rate: 0.08%

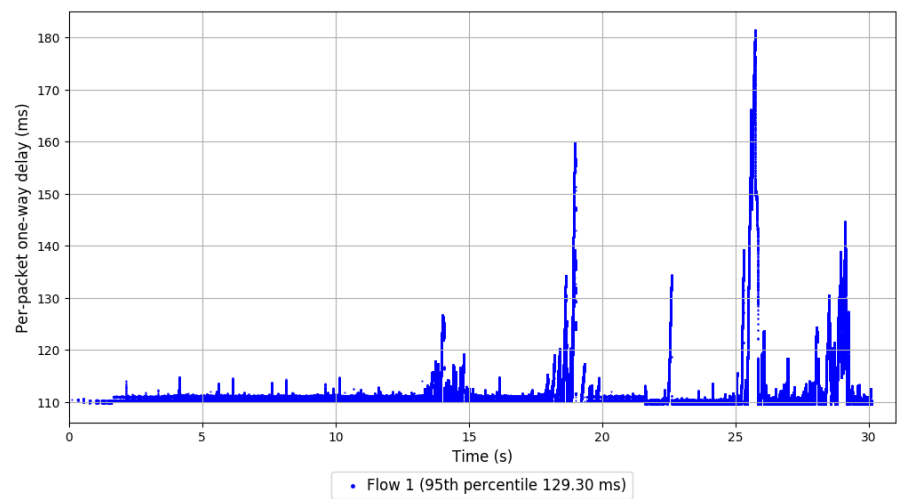
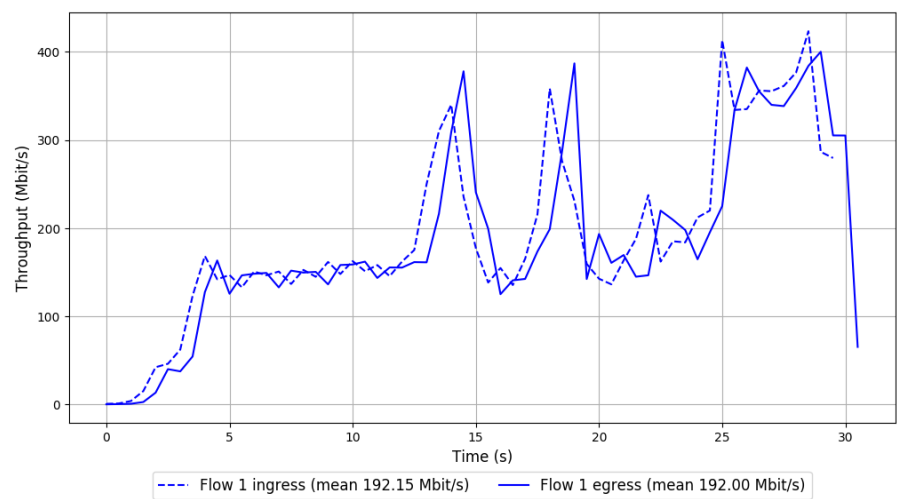
-- Flow 1:

Average throughput: 192.00 Mbit/s

95th percentile per-packet one-way delay: 129.296 ms

Loss rate: 0.08%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-05-24 02:18:33

End at: 2018-05-24 02:19:03

Local clock offset: -1.414 ms

Remote clock offset: 2.111 ms

Below is generated by plot.py at 2018-05-24 03:12:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.34 Mbit/s

95th percentile per-packet one-way delay: 124.068 ms

Loss rate: 0.02%

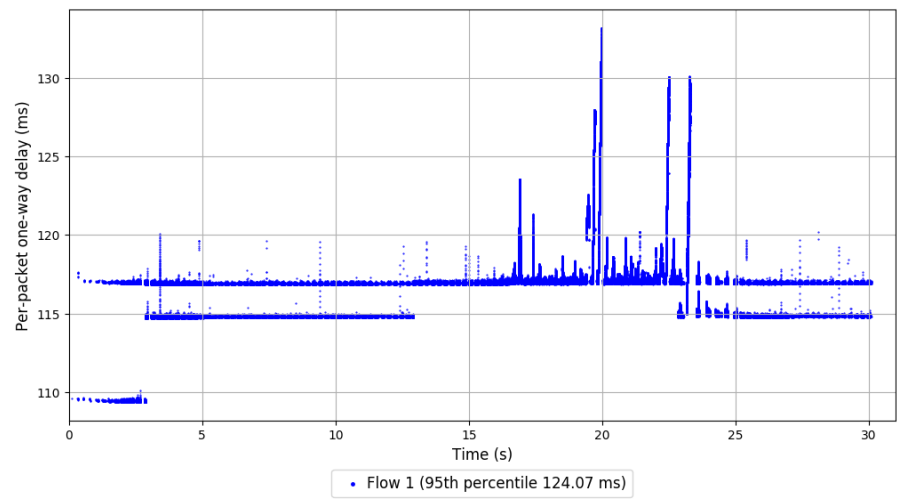
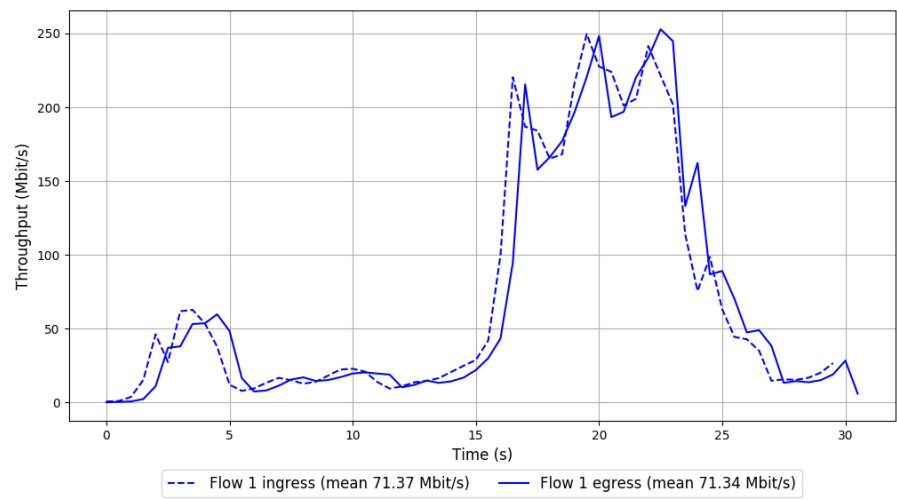
-- Flow 1:

Average throughput: 71.34 Mbit/s

95th percentile per-packet one-way delay: 124.068 ms

Loss rate: 0.02%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-05-24 02:38:50

End at: 2018-05-24 02:39:20

Local clock offset: -1.926 ms

Remote clock offset: 2.35 ms

Below is generated by plot.py at 2018-05-24 03:12:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.27 Mbit/s

95th percentile per-packet one-way delay: 116.151 ms

Loss rate: 0.05%

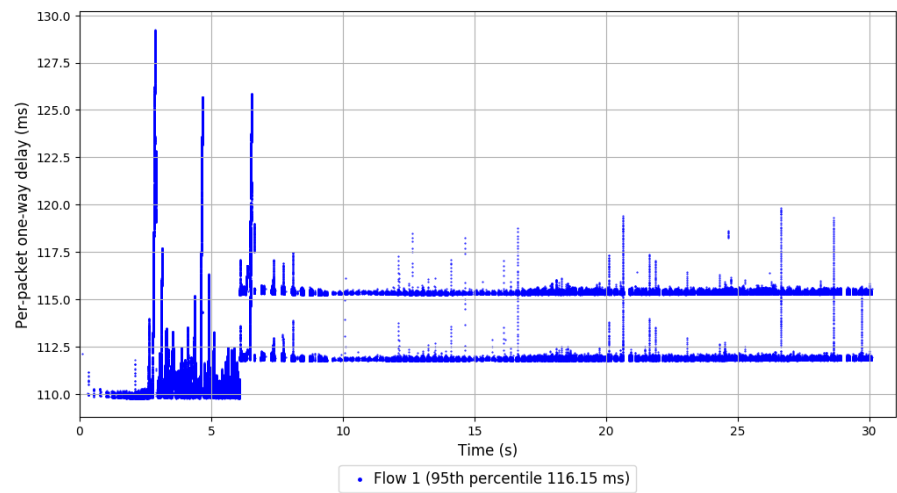
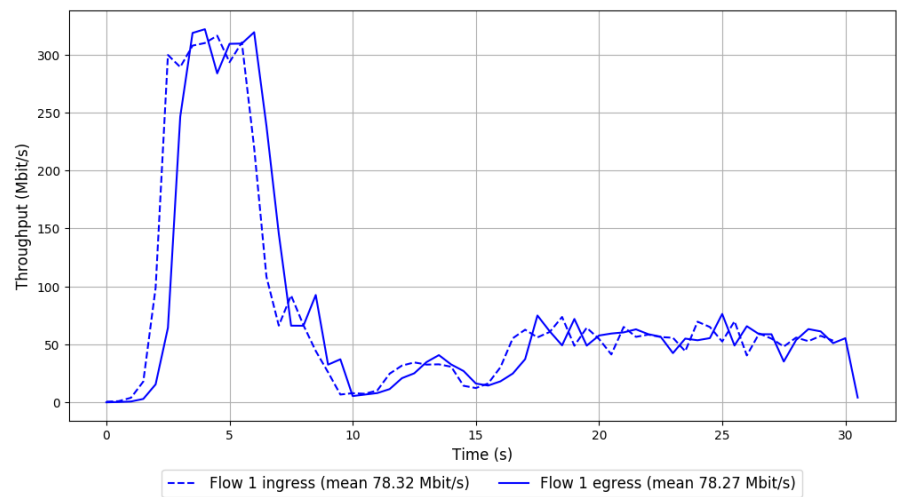
-- Flow 1:

Average throughput: 78.27 Mbit/s

95th percentile per-packet one-way delay: 116.151 ms

Loss rate: 0.05%

Run 10: Report of Copa — Data Link

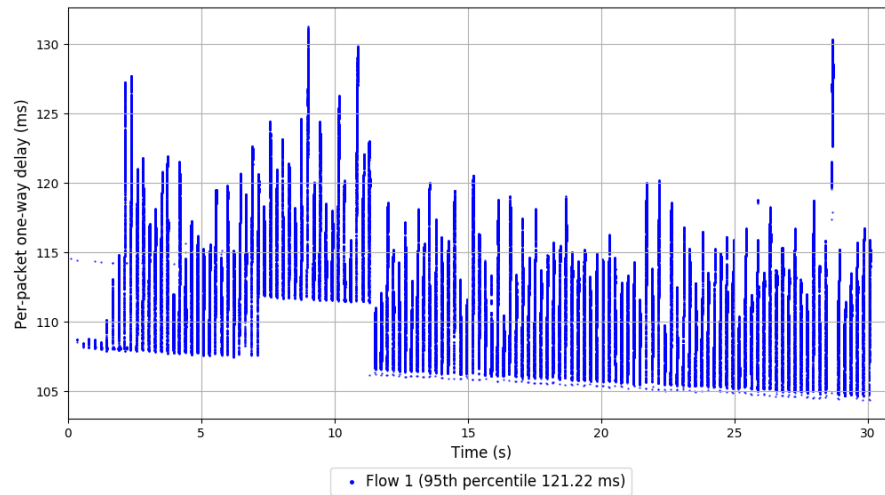
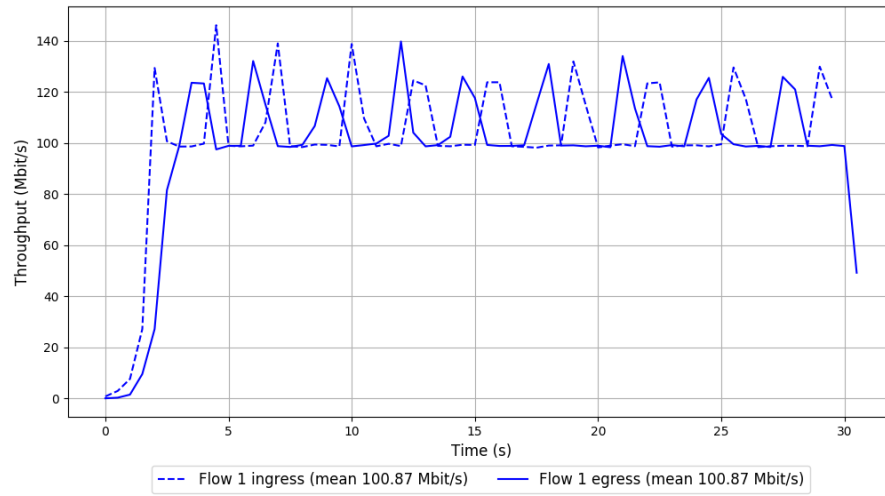


Run 1: Statistics of TCP Cubic

Start at: 2018-05-23 23:44:35
End at: 2018-05-23 23:45:05
Local clock offset: -29.59 ms
Remote clock offset: 22.549 ms

Below is generated by plot.py at 2018-05-24 03:12:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 100.87 Mbit/s
95th percentile per-packet one-way delay: 121.216 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 100.87 Mbit/s
95th percentile per-packet one-way delay: 121.216 ms
Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link

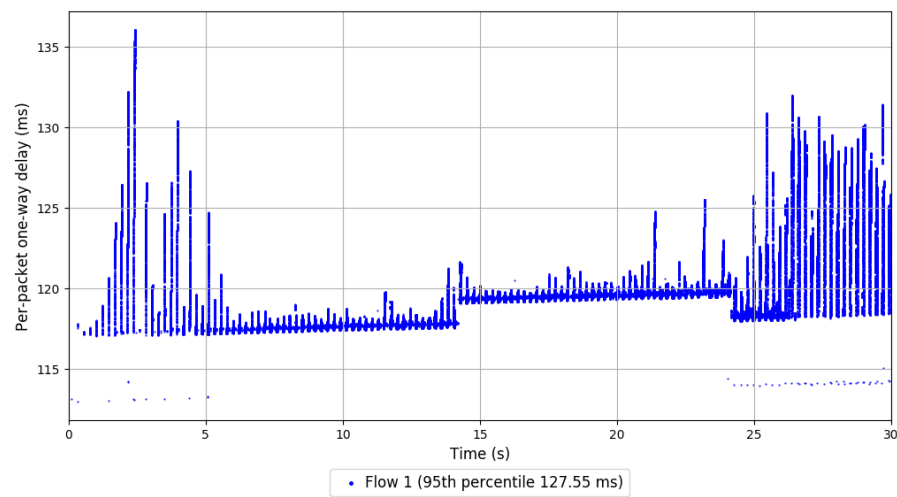
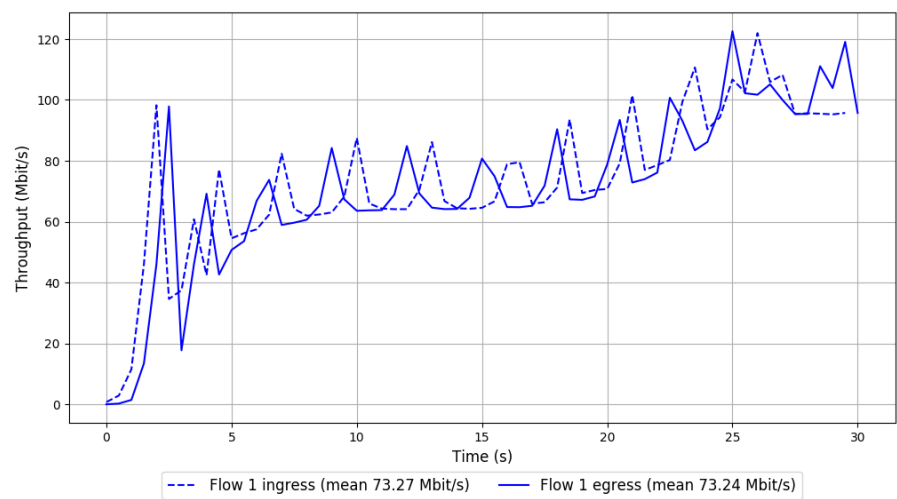


Run 2: Statistics of TCP Cubic

Start at: 2018-05-24 00:04:52
End at: 2018-05-24 00:05:22
Local clock offset: -39.491 ms
Remote clock offset: 58.726 ms

Below is generated by plot.py at 2018-05-24 03:12:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 73.24 Mbit/s
95th percentile per-packet one-way delay: 127.552 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 73.24 Mbit/s
95th percentile per-packet one-way delay: 127.552 ms
Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link

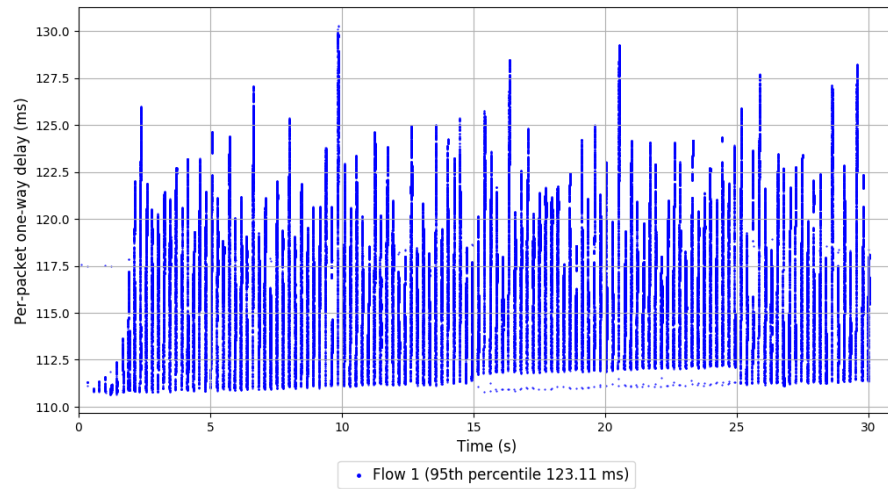
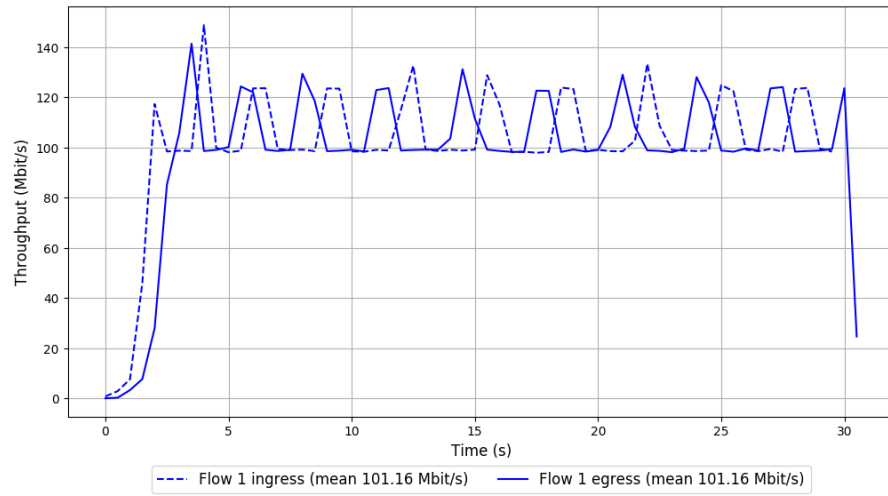


Run 3: Statistics of TCP Cubic

Start at: 2018-05-24 00:25:21
End at: 2018-05-24 00:25:51
Local clock offset: -20.954 ms
Remote clock offset: 31.581 ms

Below is generated by plot.py at 2018-05-24 03:12:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 101.16 Mbit/s
95th percentile per-packet one-way delay: 123.109 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 101.16 Mbit/s
95th percentile per-packet one-way delay: 123.109 ms
Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link

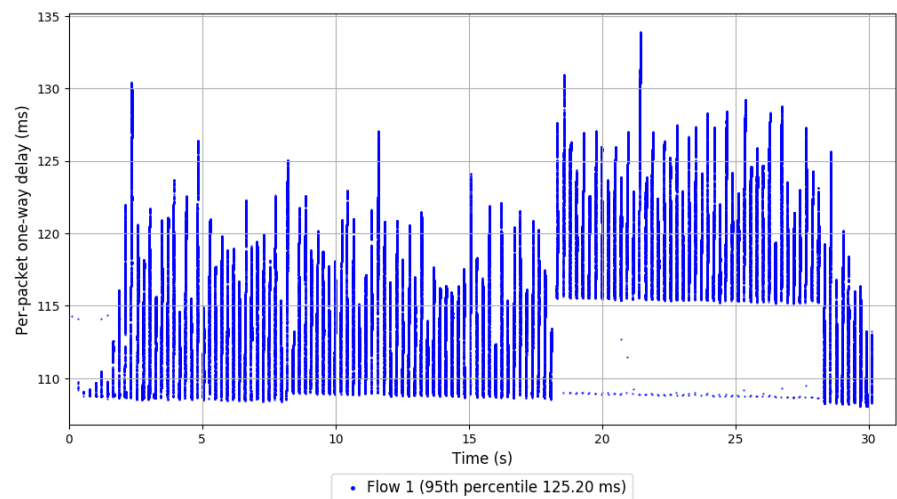
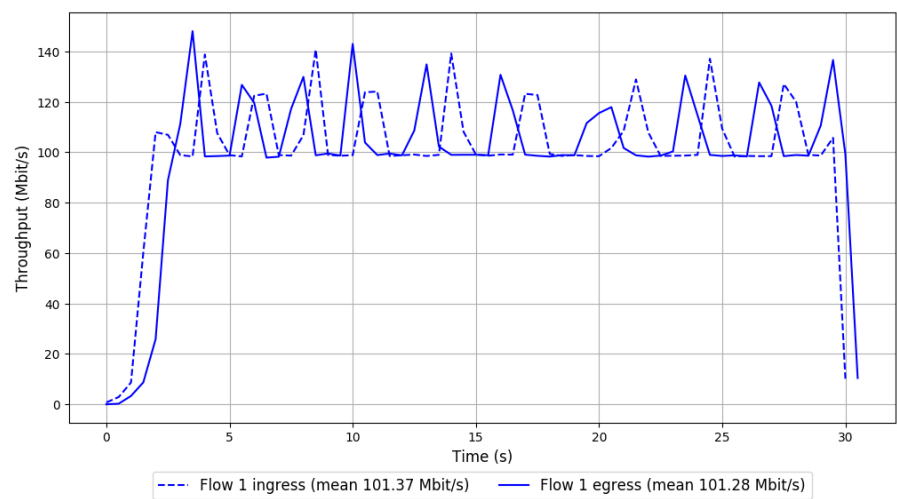


Run 4: Statistics of TCP Cubic

Start at: 2018-05-24 00:45:38
End at: 2018-05-24 00:46:08
Local clock offset: -30.235 ms
Remote clock offset: 32.666 ms

Below is generated by plot.py at 2018-05-24 03:12:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 101.28 Mbit/s
95th percentile per-packet one-way delay: 125.204 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 101.28 Mbit/s
95th percentile per-packet one-way delay: 125.204 ms
Loss rate: 0.10%

Run 4: Report of TCP Cubic — Data Link

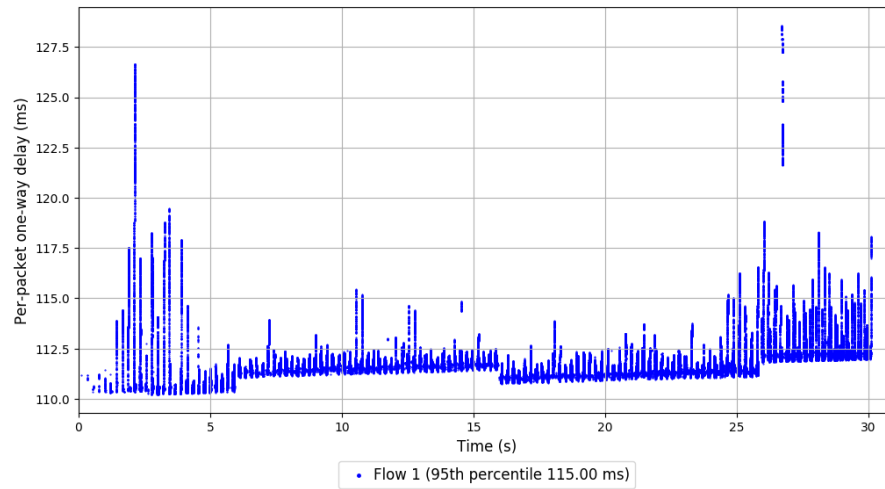
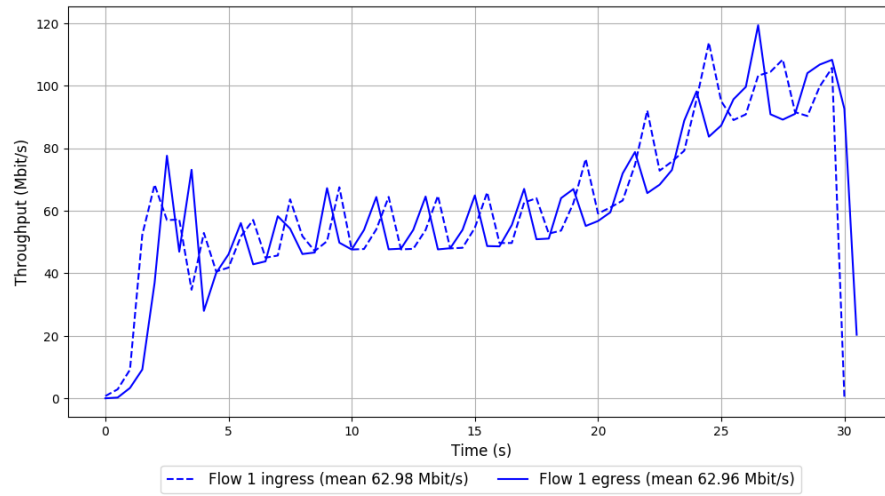


Run 5: Statistics of TCP Cubic

Start at: 2018-05-24 01:06:30
End at: 2018-05-24 01:07:00
Local clock offset: -16.485 ms
Remote clock offset: 21.968 ms

Below is generated by plot.py at 2018-05-24 03:12:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 62.96 Mbit/s
95th percentile per-packet one-way delay: 115.002 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 62.96 Mbit/s
95th percentile per-packet one-way delay: 115.002 ms
Loss rate: 0.03%

Run 5: Report of TCP Cubic — Data Link

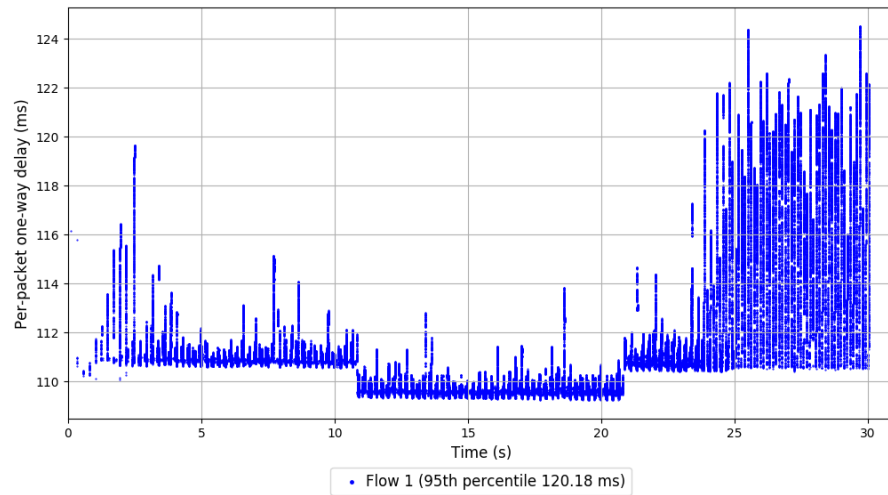
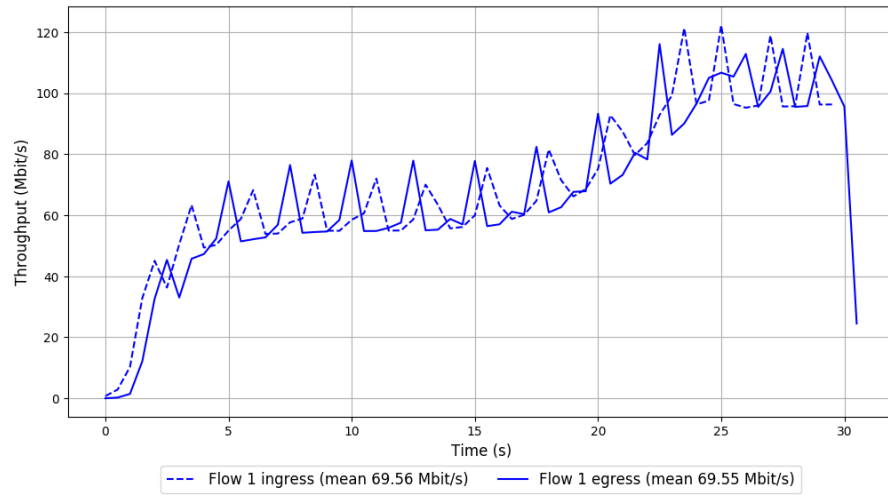


Run 6: Statistics of TCP Cubic

Start at: 2018-05-24 01:27:25
End at: 2018-05-24 01:27:55
Local clock offset: -19.569 ms
Remote clock offset: 11.324 ms

Below is generated by plot.py at 2018-05-24 03:12:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 69.55 Mbit/s
95th percentile per-packet one-way delay: 120.177 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 69.55 Mbit/s
95th percentile per-packet one-way delay: 120.177 ms
Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-05-24 01:48:14

End at: 2018-05-24 01:48:44

Local clock offset: -4.538 ms

Remote clock offset: 4.729 ms

Below is generated by plot.py at 2018-05-24 03:12:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.72 Mbit/s

95th percentile per-packet one-way delay: 116.696 ms

Loss rate: 0.00%

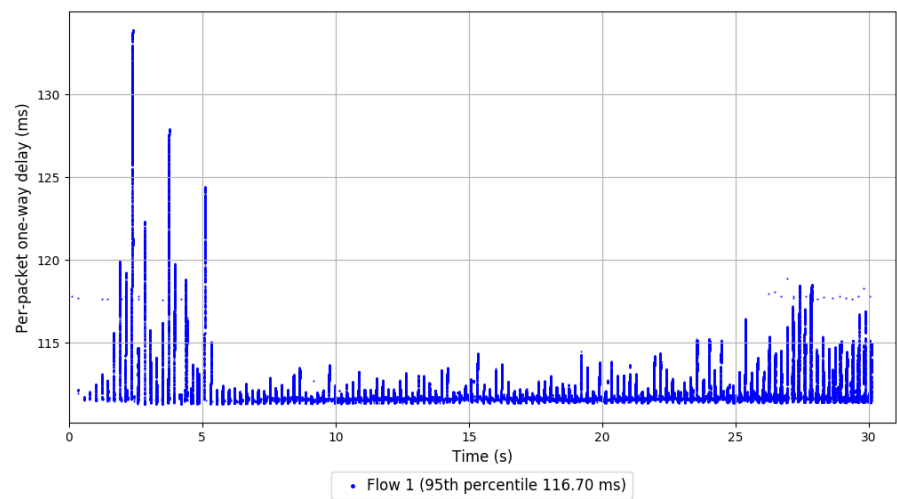
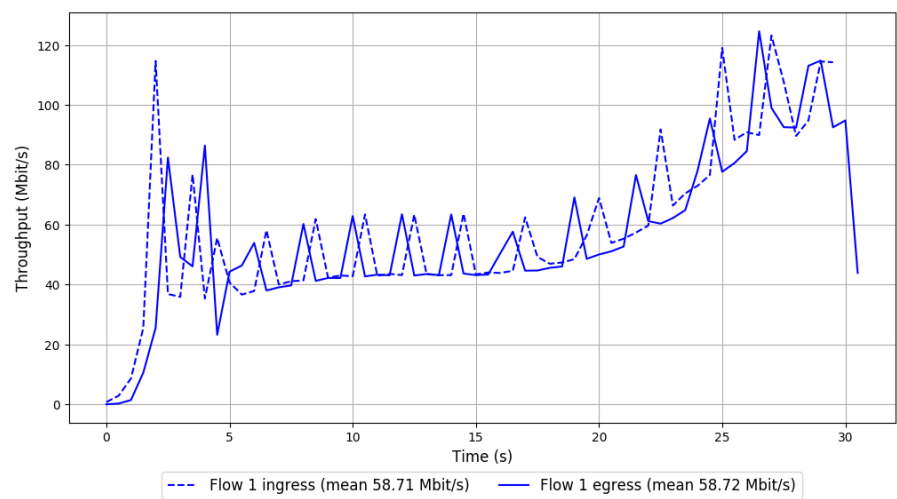
-- Flow 1:

Average throughput: 58.72 Mbit/s

95th percentile per-packet one-way delay: 116.696 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-05-24 02:09:05

End at: 2018-05-24 02:09:35

Local clock offset: -2.582 ms

Remote clock offset: 3.953 ms

Below is generated by plot.py at 2018-05-24 03:12:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.23 Mbit/s

95th percentile per-packet one-way delay: 113.957 ms

Loss rate: 0.00%

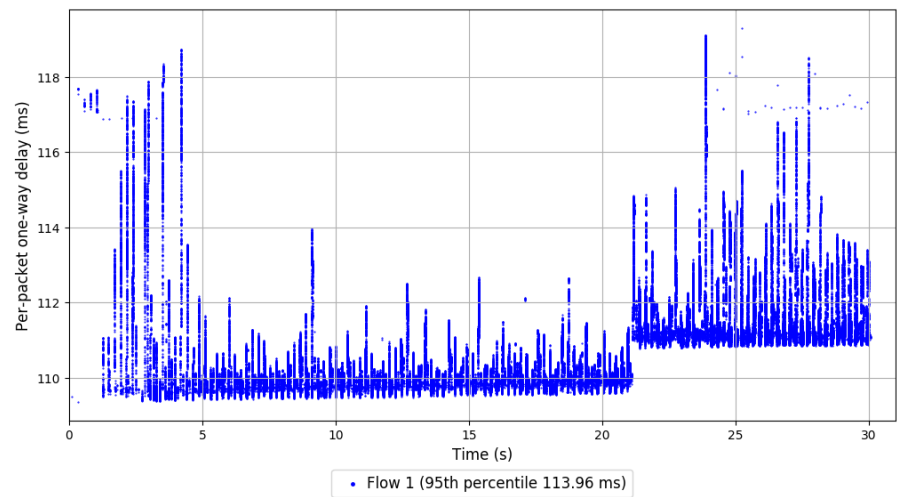
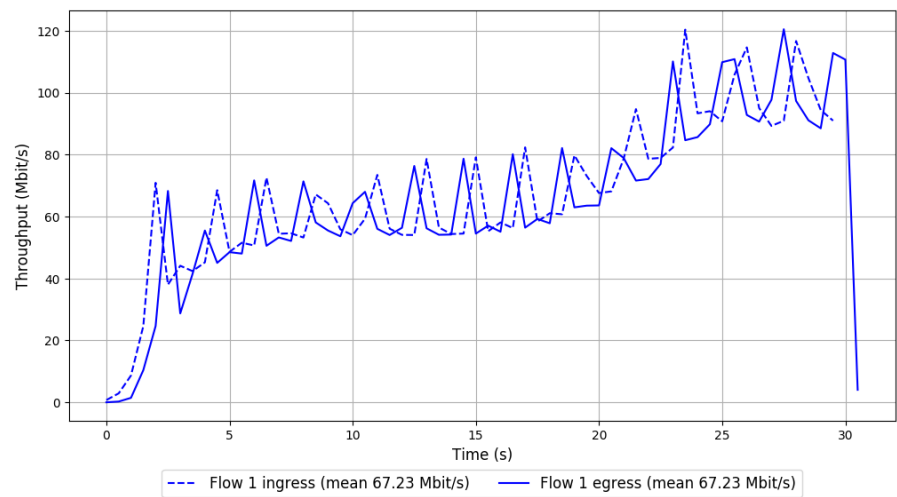
-- Flow 1:

Average throughput: 67.23 Mbit/s

95th percentile per-packet one-way delay: 113.957 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-05-24 02:30:00

End at: 2018-05-24 02:30:30

Local clock offset: -1.625 ms

Remote clock offset: 1.924 ms

Below is generated by plot.py at 2018-05-24 03:12:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 116.968 ms

Loss rate: 0.07%

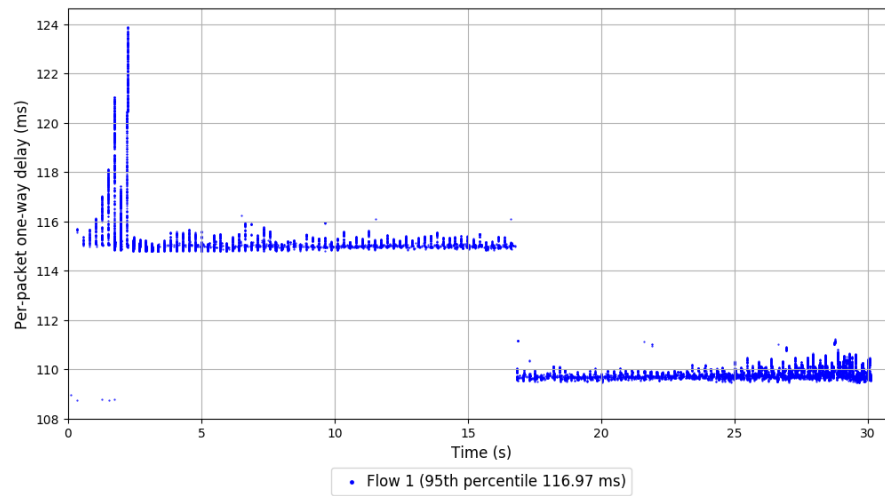
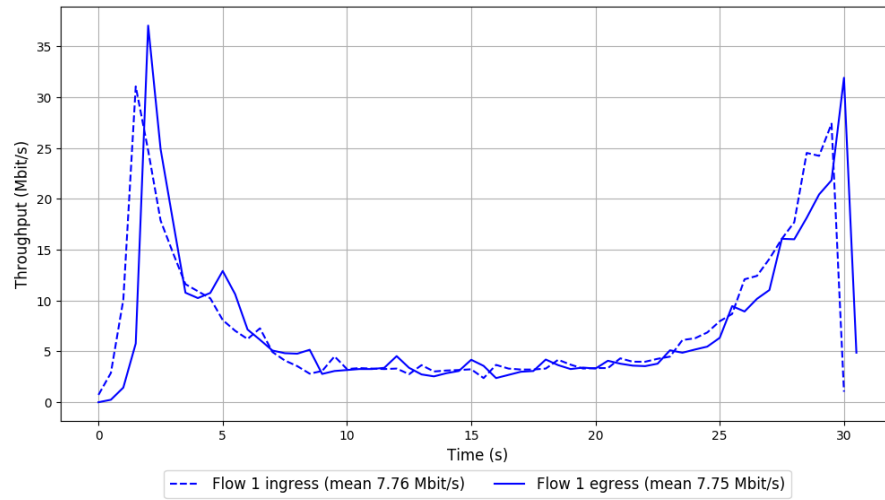
-- Flow 1:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 116.968 ms

Loss rate: 0.07%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-05-24 02:50:19

End at: 2018-05-24 02:50:49

Local clock offset: -1.065 ms

Remote clock offset: 0.66 ms

Below is generated by plot.py at 2018-05-24 03:12:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 99.80 Mbit/s

95th percentile per-packet one-way delay: 126.352 ms

Loss rate: 0.00%

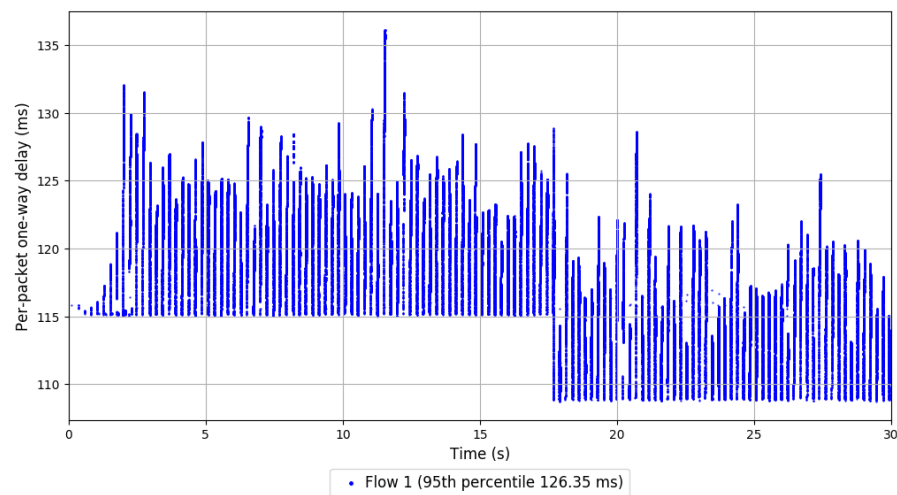
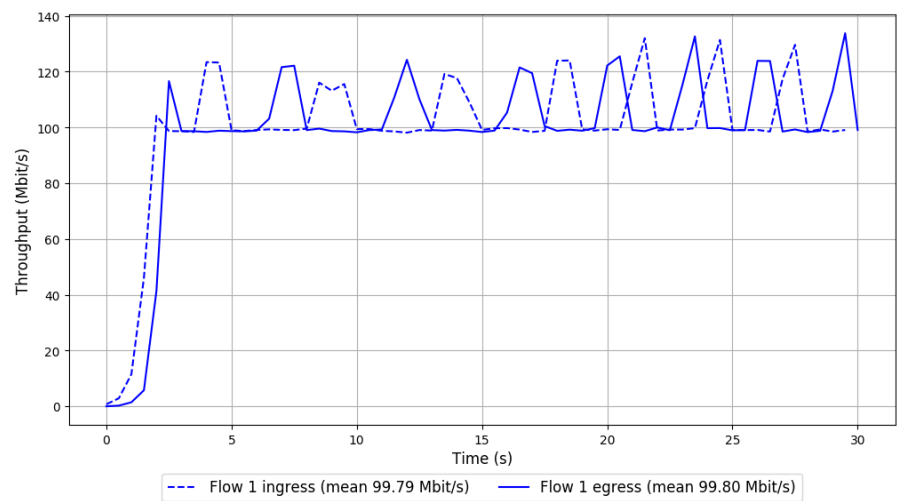
-- Flow 1:

Average throughput: 99.80 Mbit/s

95th percentile per-packet one-way delay: 126.352 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

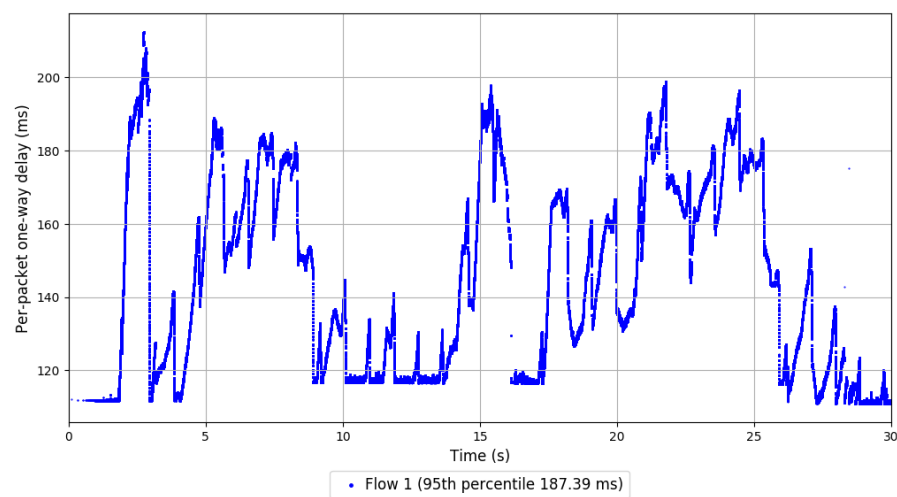
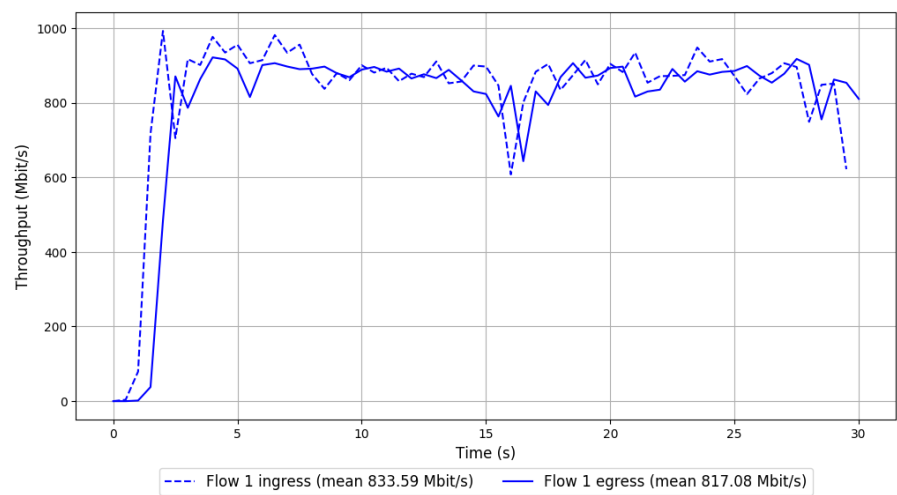


Run 1: Statistics of FillP

Start at: 2018-05-23 23:47:17
End at: 2018-05-23 23:47:47
Local clock offset: -32.163 ms
Remote clock offset: 31.257 ms

Below is generated by plot.py at 2018-05-24 03:27:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 817.08 Mbit/s
95th percentile per-packet one-way delay: 187.388 ms
Loss rate: 1.98%
-- Flow 1:
Average throughput: 817.08 Mbit/s
95th percentile per-packet one-way delay: 187.388 ms
Loss rate: 1.98%

Run 1: Report of FillP — Data Link

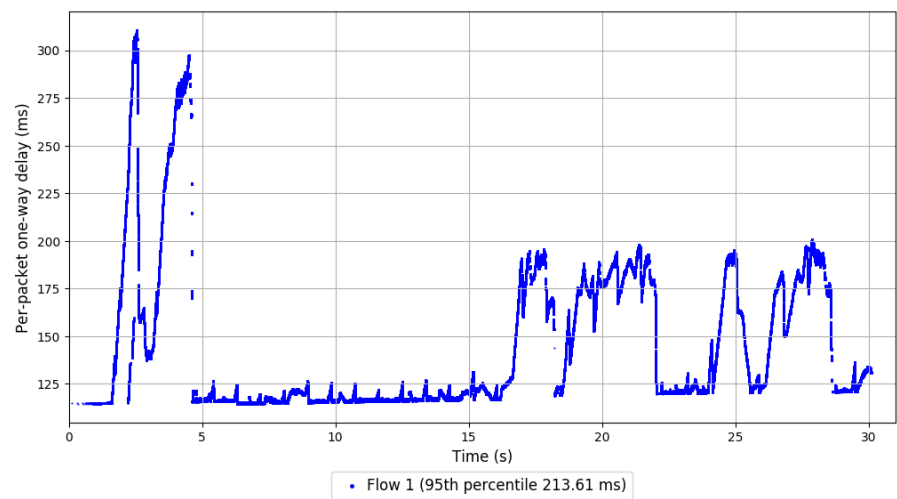
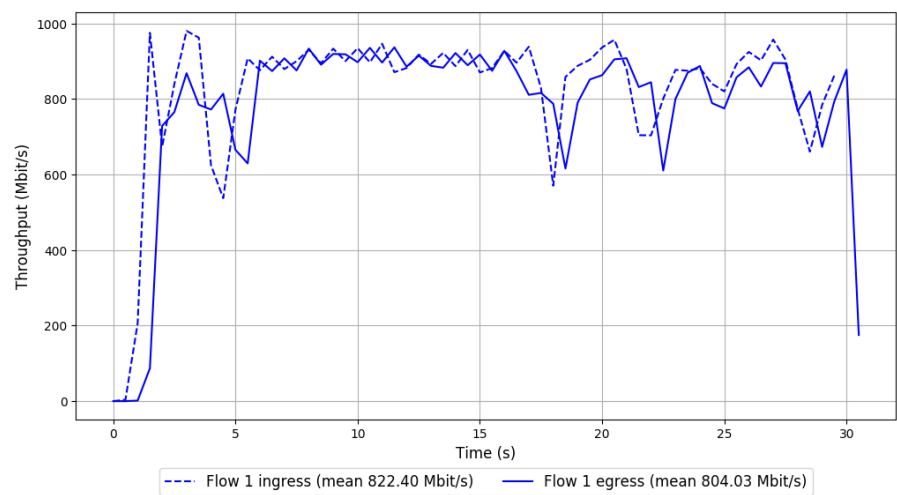


Run 2: Statistics of FillP

Start at: 2018-05-24 00:07:30
End at: 2018-05-24 00:08:00
Local clock offset: -26.812 ms
Remote clock offset: 65.072 ms

Below is generated by plot.py at 2018-05-24 03:27:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 804.03 Mbit/s
95th percentile per-packet one-way delay: 213.614 ms
Loss rate: 2.20%
-- Flow 1:
Average throughput: 804.03 Mbit/s
95th percentile per-packet one-way delay: 213.614 ms
Loss rate: 2.20%

Run 2: Report of FillP — Data Link

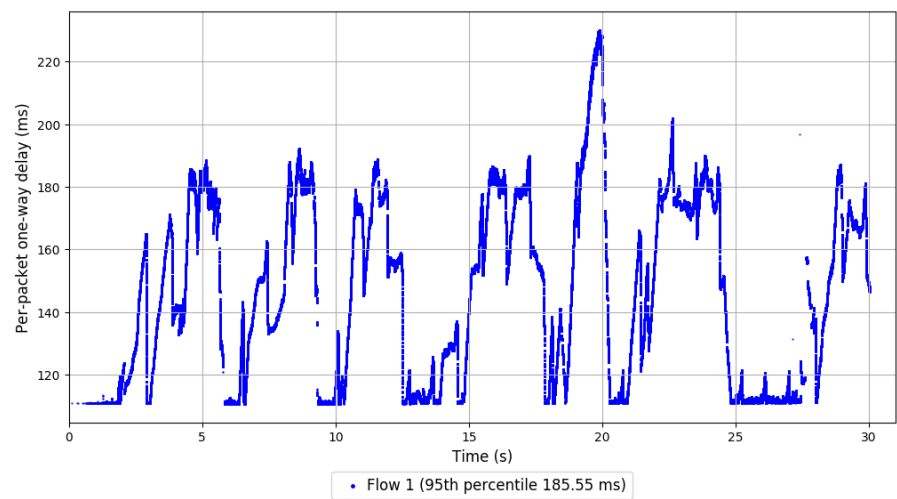
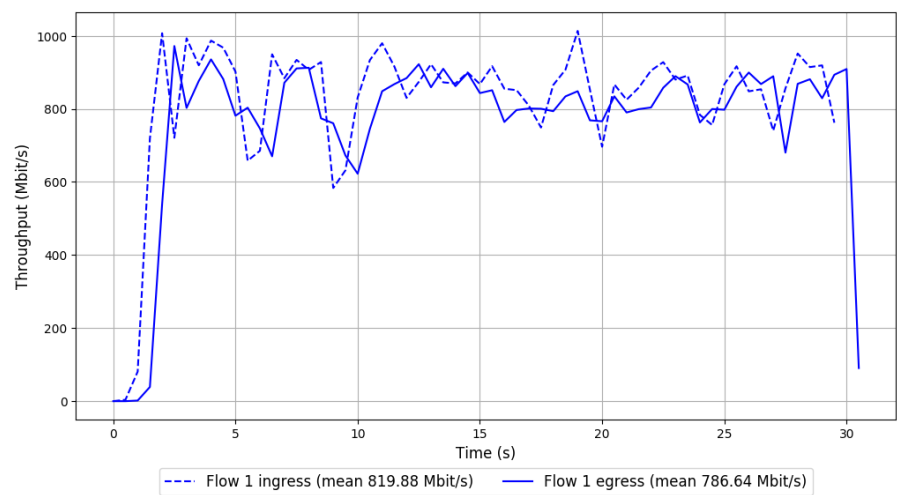


Run 3: Statistics of FillP

Start at: 2018-05-24 00:28:02
End at: 2018-05-24 00:28:32
Local clock offset: -20.1 ms
Remote clock offset: 26.877 ms

Below is generated by plot.py at 2018-05-24 03:27:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 786.64 Mbit/s
95th percentile per-packet one-way delay: 185.554 ms
Loss rate: 4.05%
-- Flow 1:
Average throughput: 786.64 Mbit/s
95th percentile per-packet one-way delay: 185.554 ms
Loss rate: 4.05%

Run 3: Report of FillP — Data Link

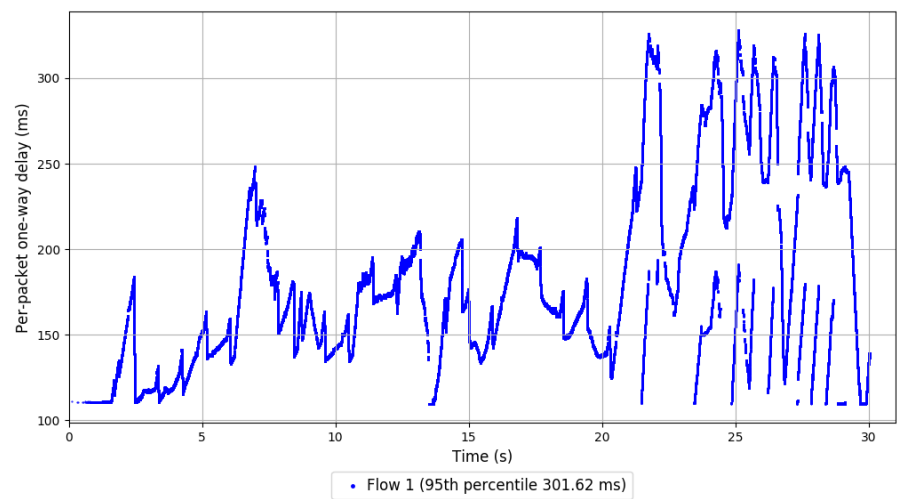
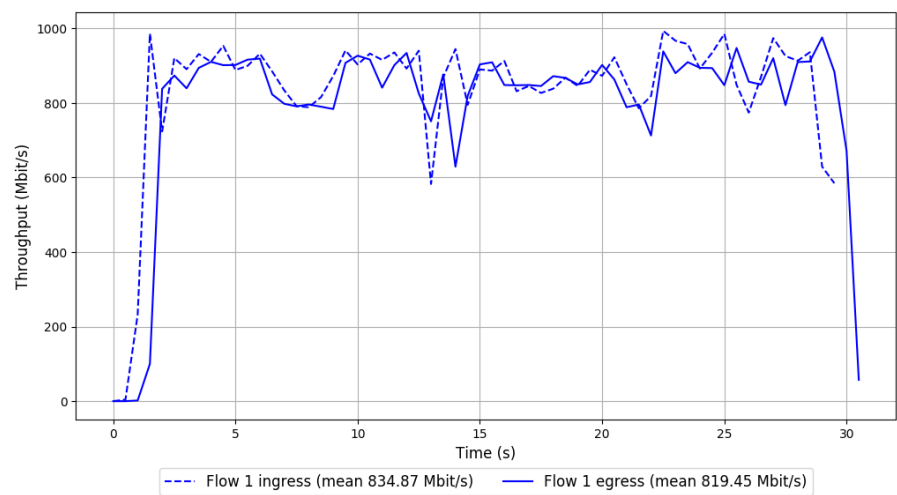


Run 4: Statistics of FillP

Start at: 2018-05-24 00:48:19
End at: 2018-05-24 00:48:49
Local clock offset: -33.089 ms
Remote clock offset: 35.982 ms

Below is generated by plot.py at 2018-05-24 03:27:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 819.45 Mbit/s
95th percentile per-packet one-way delay: 301.621 ms
Loss rate: 1.85%
-- Flow 1:
Average throughput: 819.45 Mbit/s
95th percentile per-packet one-way delay: 301.621 ms
Loss rate: 1.85%

Run 4: Report of FillP — Data Link

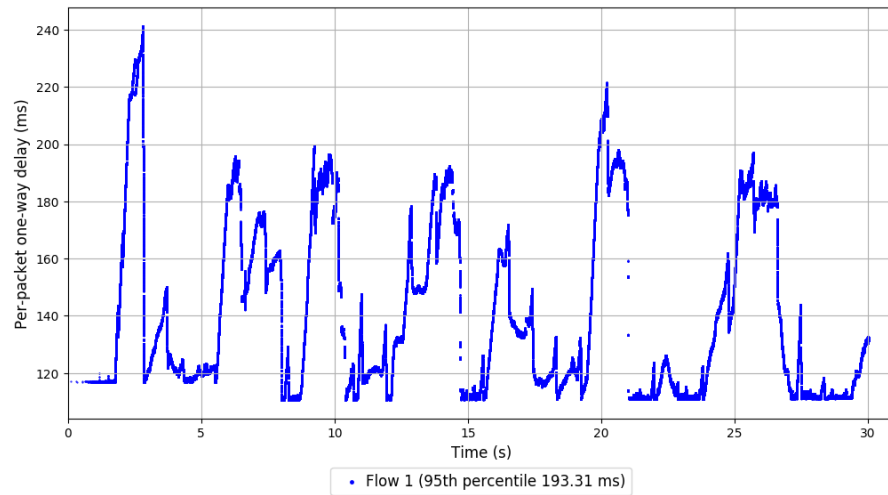
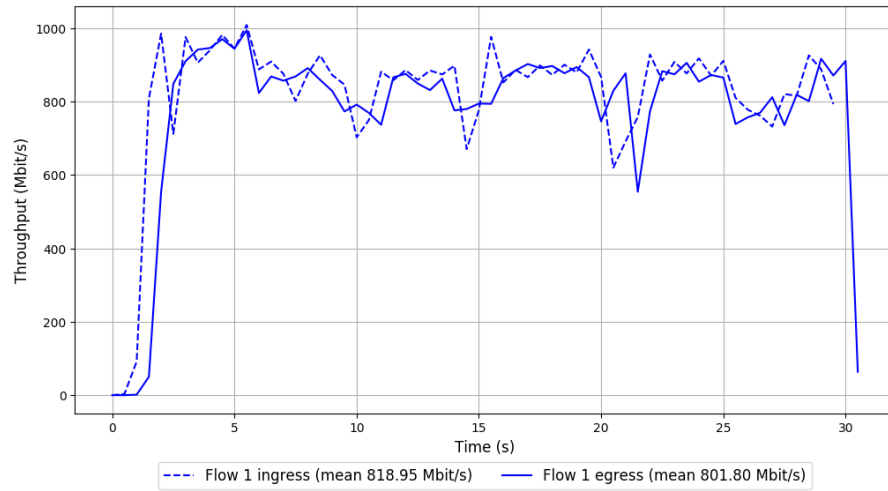


Run 5: Statistics of FillP

Start at: 2018-05-24 01:09:10
End at: 2018-05-24 01:09:40
Local clock offset: -15.324 ms
Remote clock offset: 17.619 ms

Below is generated by plot.py at 2018-05-24 03:27:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 801.80 Mbit/s
95th percentile per-packet one-way delay: 193.315 ms
Loss rate: 2.11%
-- Flow 1:
Average throughput: 801.80 Mbit/s
95th percentile per-packet one-way delay: 193.315 ms
Loss rate: 2.11%

Run 5: Report of FillP — Data Link

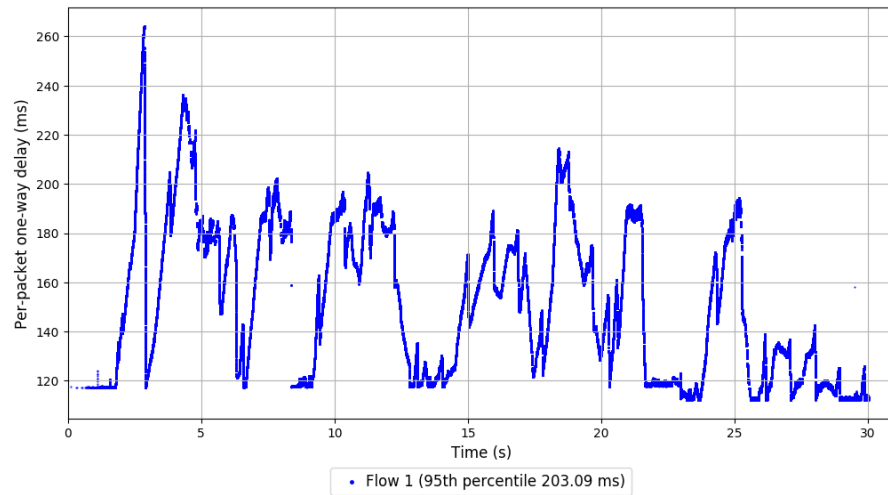
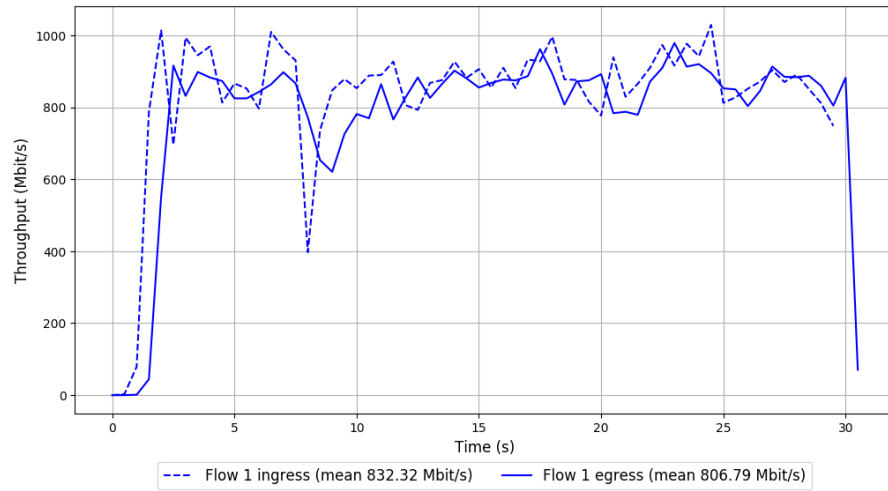


Run 6: Statistics of FillP

Start at: 2018-05-24 01:30:03
End at: 2018-05-24 01:30:33
Local clock offset: -17.572 ms
Remote clock offset: 12.147 ms

Below is generated by plot.py at 2018-05-24 03:28:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 806.79 Mbit/s
95th percentile per-packet one-way delay: 203.092 ms
Loss rate: 3.08%
-- Flow 1:
Average throughput: 806.79 Mbit/s
95th percentile per-packet one-way delay: 203.092 ms
Loss rate: 3.08%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-05-24 01:50:52

End at: 2018-05-24 01:51:22

Local clock offset: -4.297 ms

Remote clock offset: 4.191 ms

Below is generated by plot.py at 2018-05-24 03:29:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 854.03 Mbit/s

95th percentile per-packet one-way delay: 207.087 ms

Loss rate: 2.23%

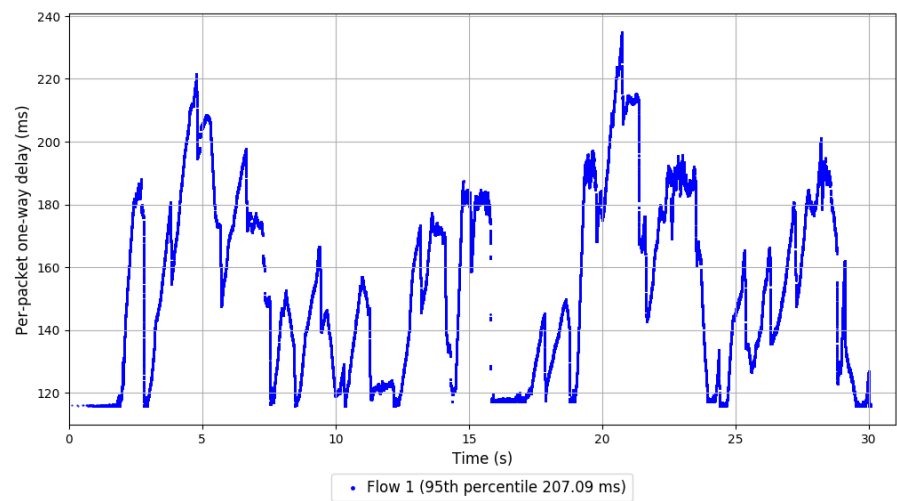
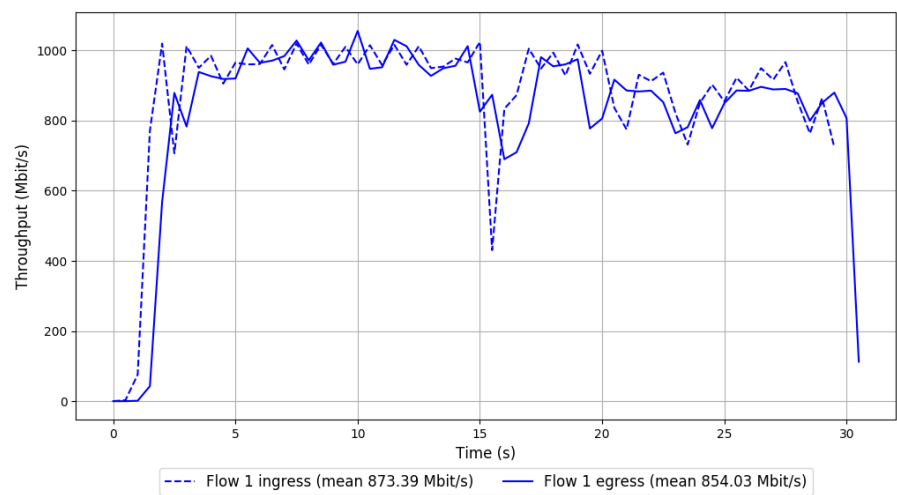
-- Flow 1:

Average throughput: 854.03 Mbit/s

95th percentile per-packet one-way delay: 207.087 ms

Loss rate: 2.23%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-05-24 02:11:44

End at: 2018-05-24 02:12:14

Local clock offset: -2.168 ms

Remote clock offset: 3.33 ms

Below is generated by plot.py at 2018-05-24 03:29:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 820.88 Mbit/s

95th percentile per-packet one-way delay: 194.308 ms

Loss rate: 2.09%

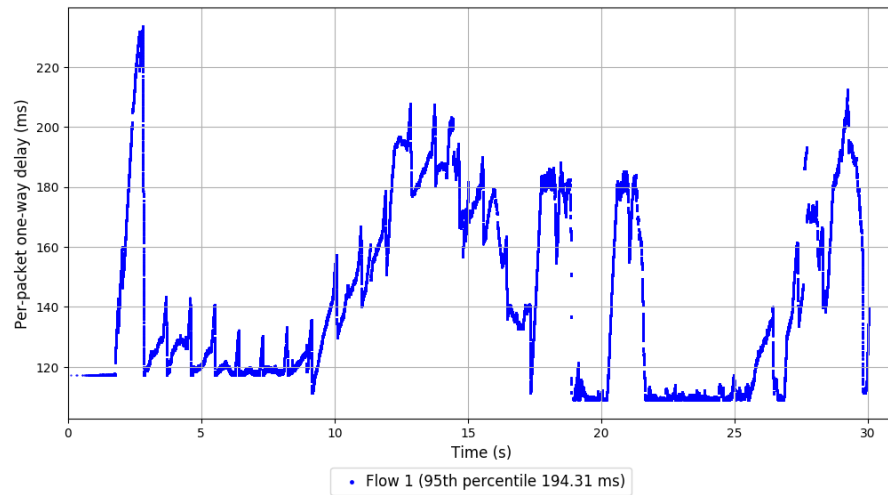
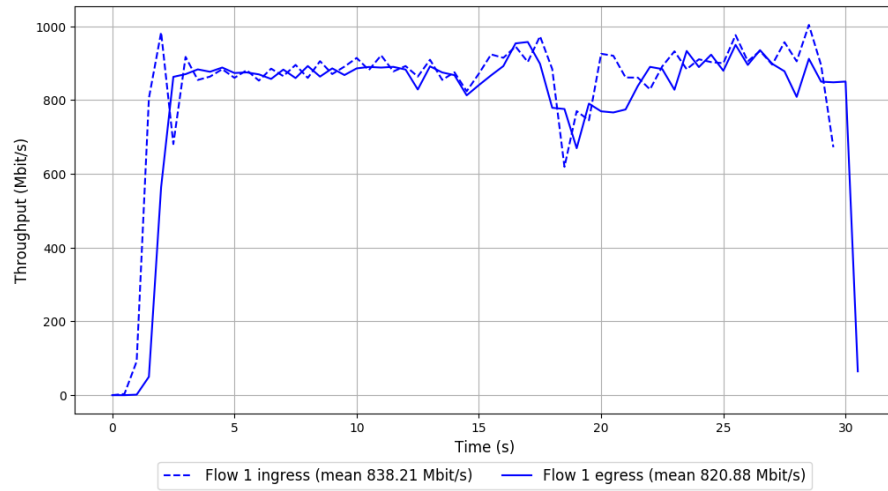
-- Flow 1:

Average throughput: 820.88 Mbit/s

95th percentile per-packet one-way delay: 194.308 ms

Loss rate: 2.09%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-05-24 02:32:45

End at: 2018-05-24 02:33:15

Local clock offset: -2.094 ms

Remote clock offset: 2.389 ms

Below is generated by plot.py at 2018-05-24 03:32:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 264.16 Mbit/s

95th percentile per-packet one-way delay: 297.050 ms

Loss rate: 0.23%

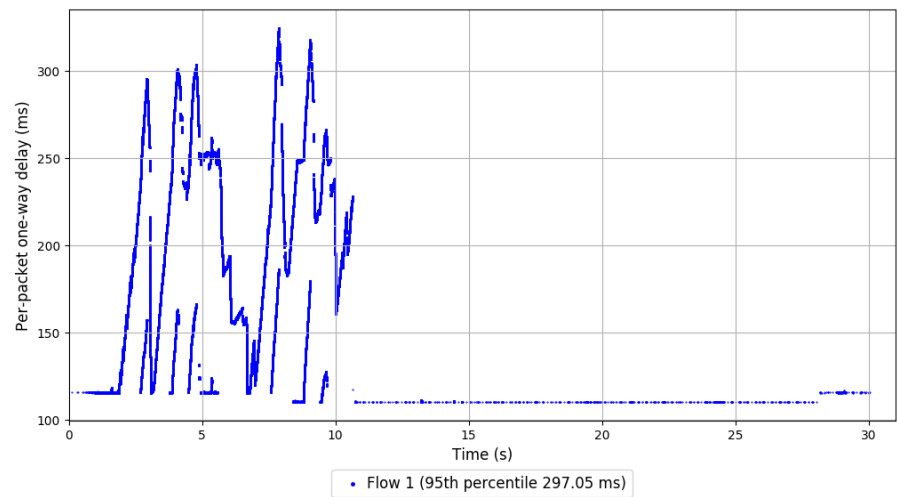
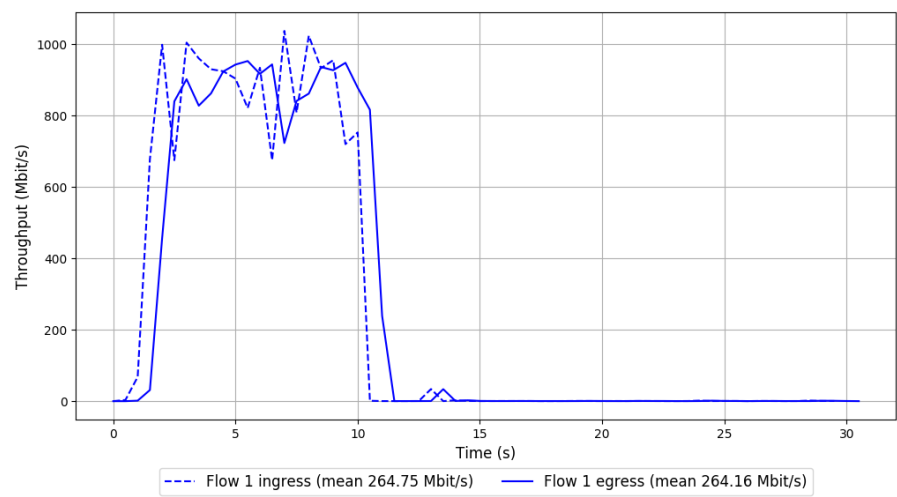
-- Flow 1:

Average throughput: 264.16 Mbit/s

95th percentile per-packet one-way delay: 297.050 ms

Loss rate: 0.23%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-05-24 02:53:01

End at: 2018-05-24 02:53:31

Local clock offset: -0.699 ms

Remote clock offset: 1.279 ms

Below is generated by plot.py at 2018-05-24 03:43:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 812.79 Mbit/s

95th percentile per-packet one-way delay: 224.977 ms

Loss rate: 1.94%

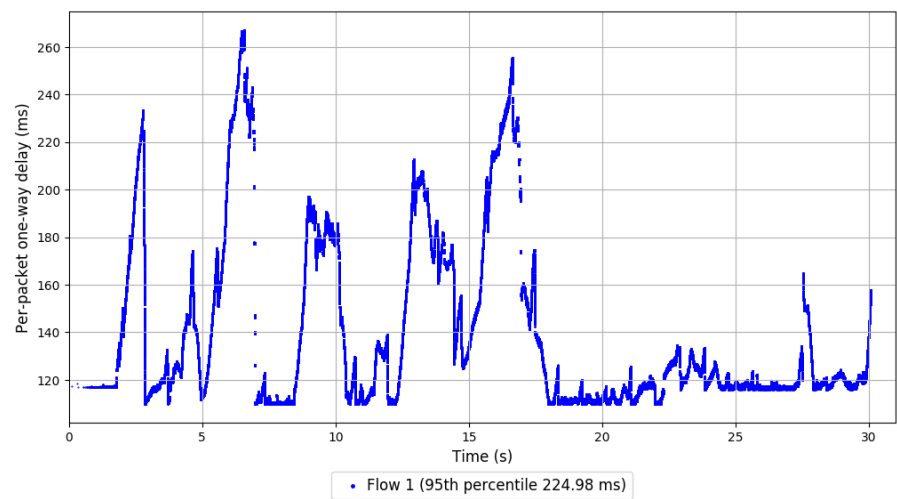
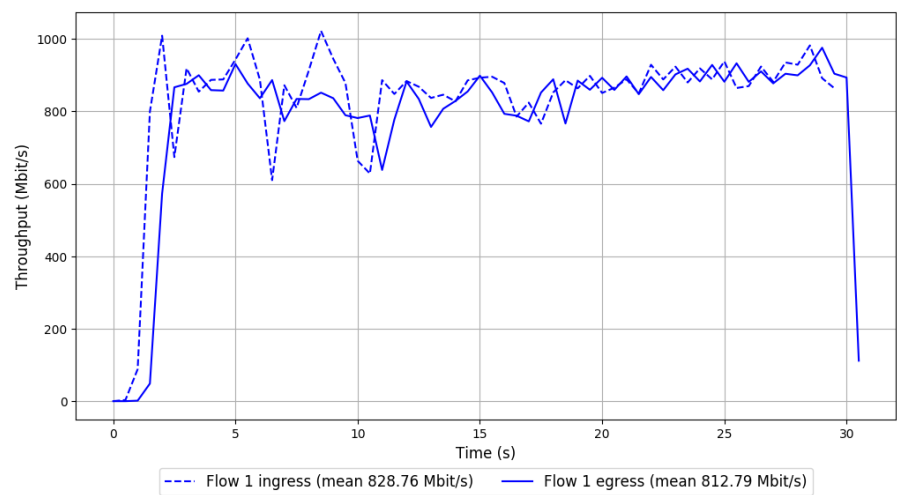
-- Flow 1:

Average throughput: 812.79 Mbit/s

95th percentile per-packet one-way delay: 224.977 ms

Loss rate: 1.94%

Run 10: Report of FillP — Data Link

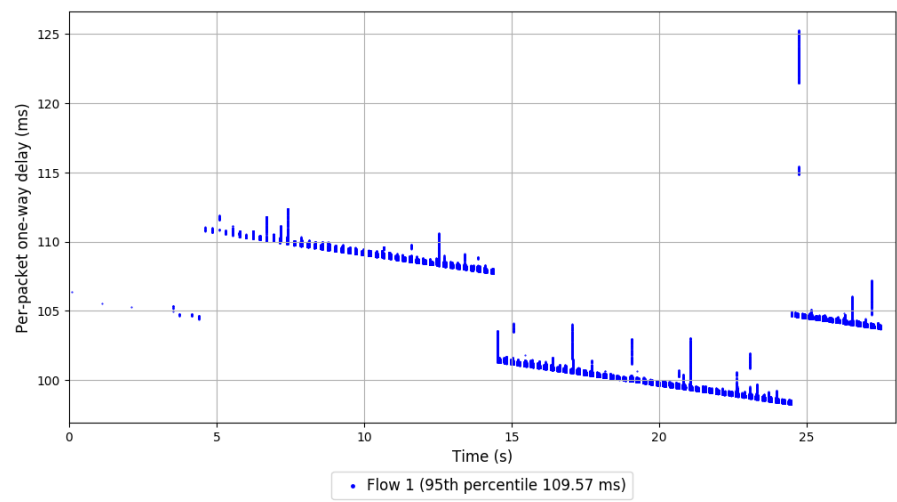
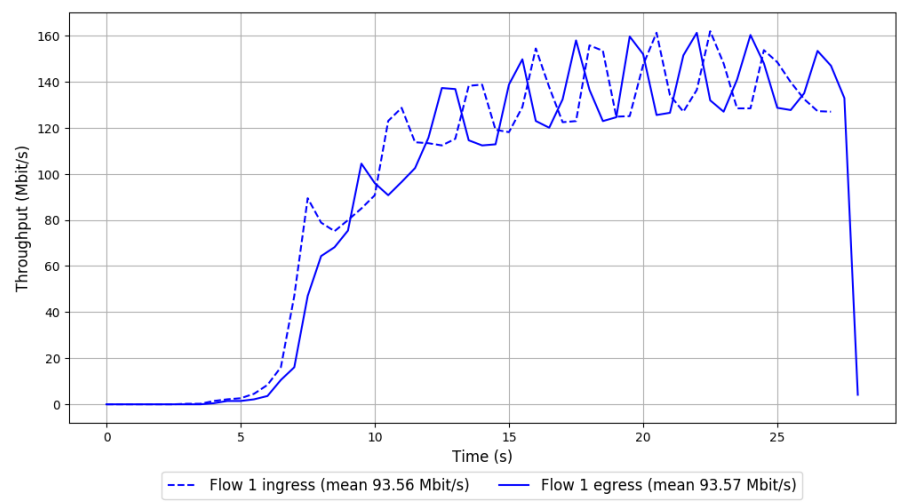


```
Run 1: Statistics of Indigo

Start at: 2018-05-23 23:36:19
End at: 2018-05-23 23:36:49
Local clock offset: -17.328 ms
Remote clock offset: 46.726 ms

# Below is generated by plot.py at 2018-05-24 03:43:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.57 Mbit/s
95th percentile per-packet one-way delay: 109.574 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 93.57 Mbit/s
95th percentile per-packet one-way delay: 109.574 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

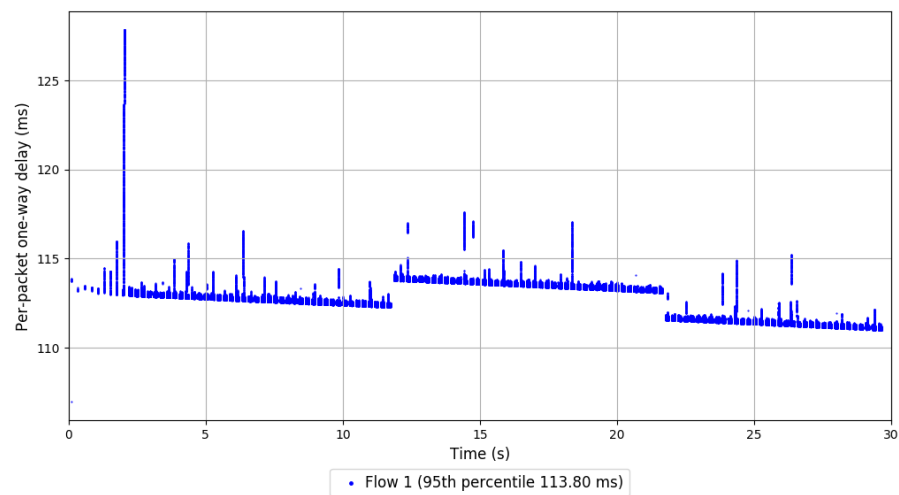
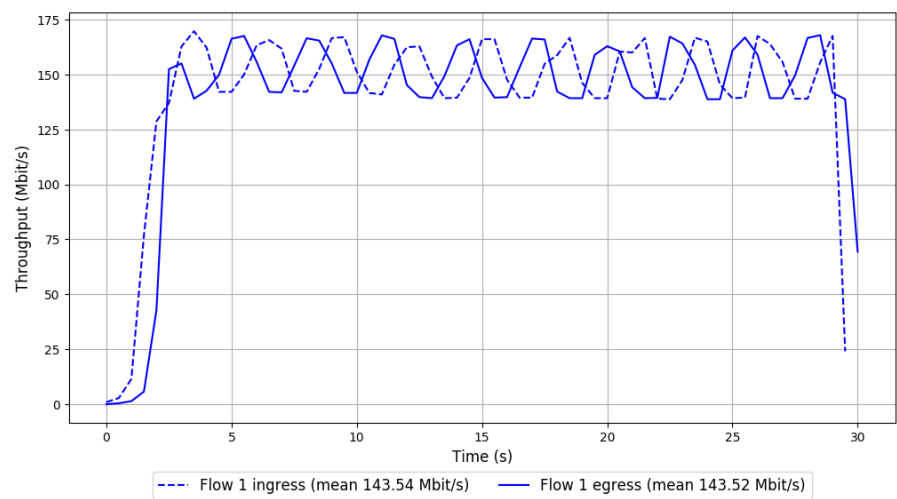


Run 2: Statistics of Indigo

Start at: 2018-05-23 23:56:34
End at: 2018-05-23 23:57:04
Local clock offset: -35.347 ms
Remote clock offset: 34.422 ms

Below is generated by plot.py at 2018-05-24 03:43:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 143.52 Mbit/s
95th percentile per-packet one-way delay: 113.796 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 143.52 Mbit/s
95th percentile per-packet one-way delay: 113.796 ms
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

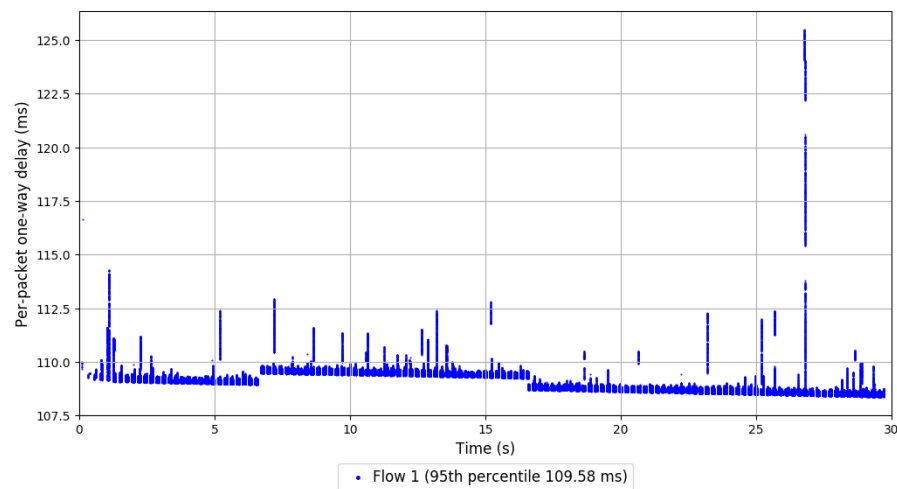
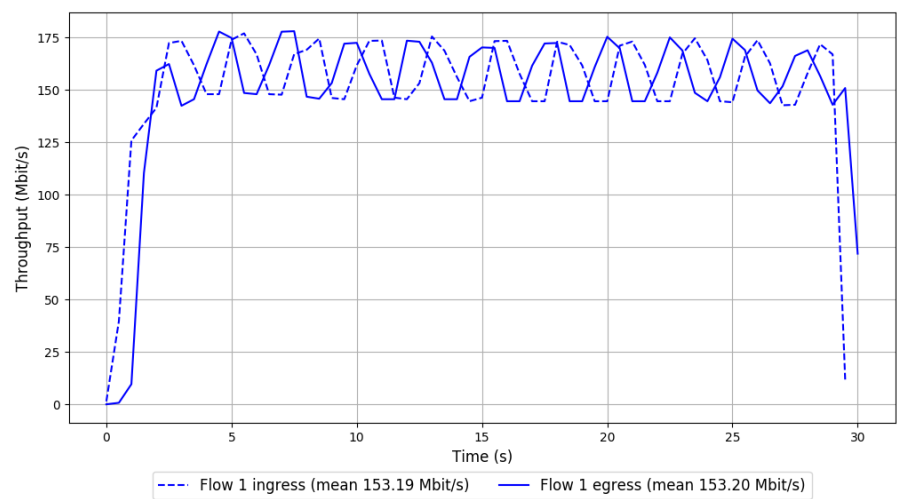


Run 3: Statistics of Indigo

Start at: 2018-05-24 00:16:49
End at: 2018-05-24 00:17:19
Local clock offset: -23.531 ms
Remote clock offset: 25.097 ms

Below is generated by plot.py at 2018-05-24 03:43:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 153.20 Mbit/s
95th percentile per-packet one-way delay: 109.579 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 153.20 Mbit/s
95th percentile per-packet one-way delay: 109.579 ms
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link

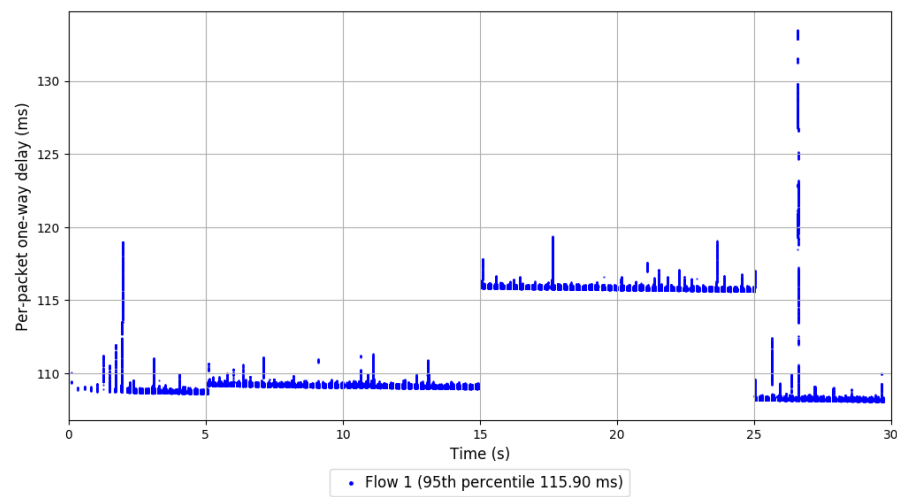
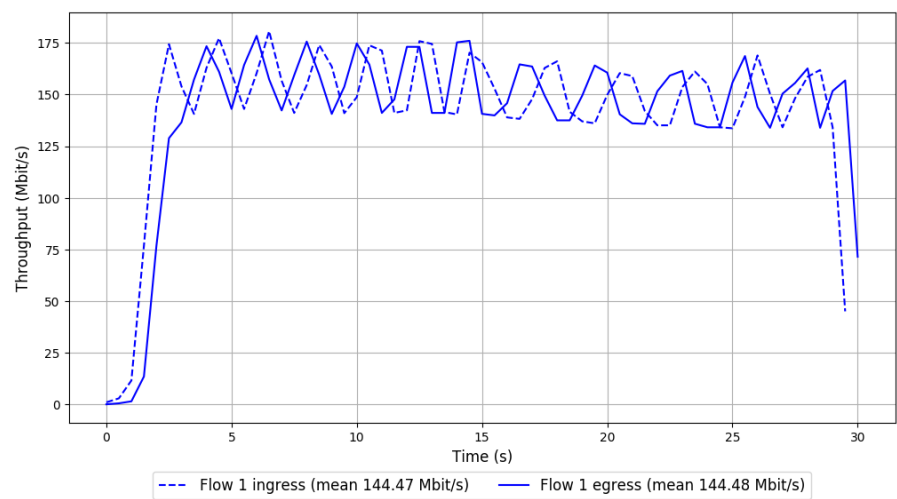


Run 4: Statistics of Indigo

Start at: 2018-05-24 00:37:21
End at: 2018-05-24 00:37:51
Local clock offset: -22.972 ms
Remote clock offset: 25.487 ms

Below is generated by plot.py at 2018-05-24 03:43:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 144.48 Mbit/s
95th percentile per-packet one-way delay: 115.896 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 144.48 Mbit/s
95th percentile per-packet one-way delay: 115.896 ms
Loss rate: 0.00%

Run 4: Report of Indigo — Data Link

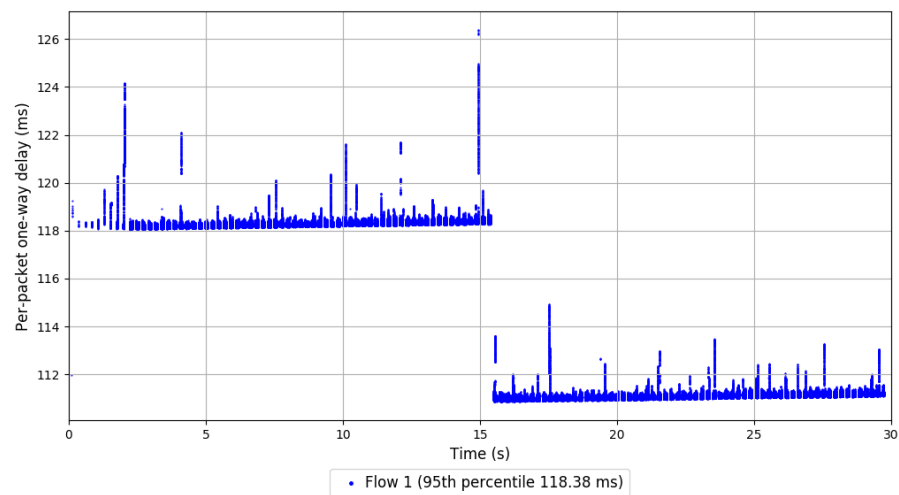
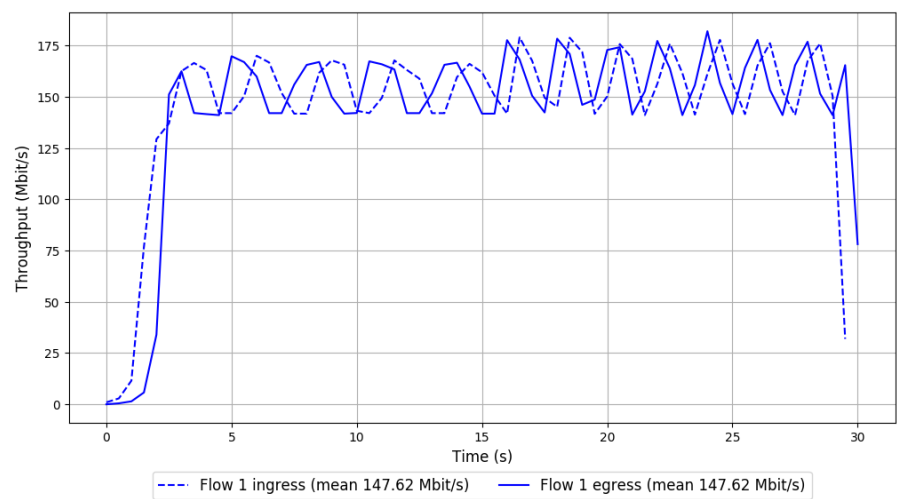


Run 5: Statistics of Indigo

Start at: 2018-05-24 00:57:50
End at: 2018-05-24 00:58:20
Local clock offset: -28.882 ms
Remote clock offset: 48.305 ms

Below is generated by plot.py at 2018-05-24 03:43:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 147.62 Mbit/s
95th percentile per-packet one-way delay: 118.383 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 147.62 Mbit/s
95th percentile per-packet one-way delay: 118.383 ms
Loss rate: 0.00%

Run 5: Report of Indigo — Data Link

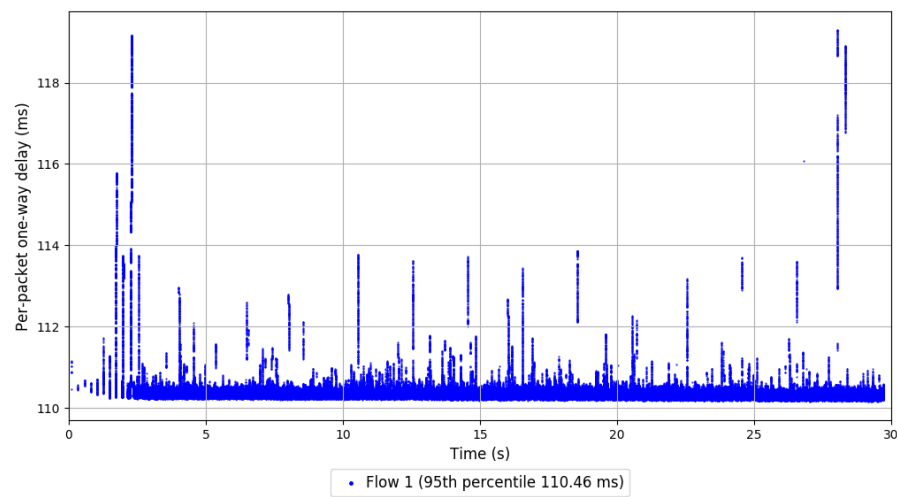
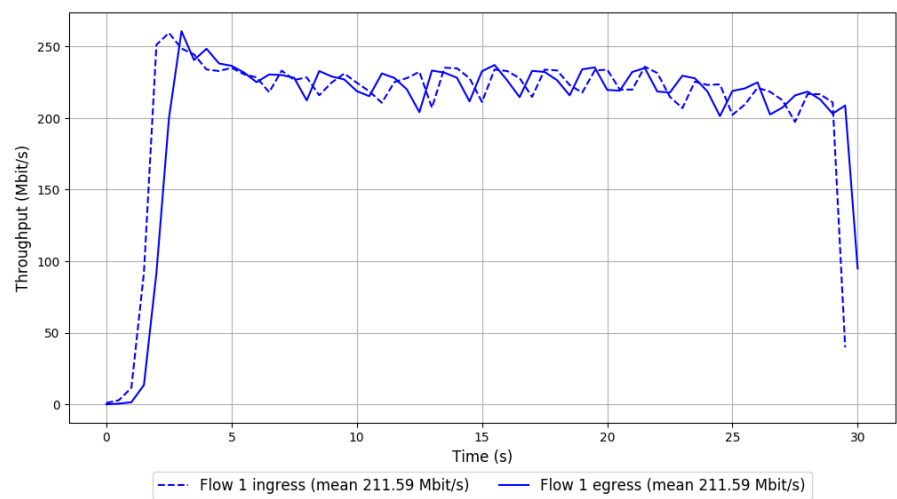


Run 6: Statistics of Indigo

Start at: 2018-05-24 01:18:36
End at: 2018-05-24 01:19:06
Local clock offset: -16.236 ms
Remote clock offset: 11.313 ms

Below is generated by plot.py at 2018-05-24 03:43:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 211.59 Mbit/s
95th percentile per-packet one-way delay: 110.462 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 211.59 Mbit/s
95th percentile per-packet one-way delay: 110.462 ms
Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-05-24 01:39:27

End at: 2018-05-24 01:39:57

Local clock offset: -7.098 ms

Remote clock offset: 6.565 ms

Below is generated by plot.py at 2018-05-24 03:43:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.28 Mbit/s

95th percentile per-packet one-way delay: 111.673 ms

Loss rate: 0.00%

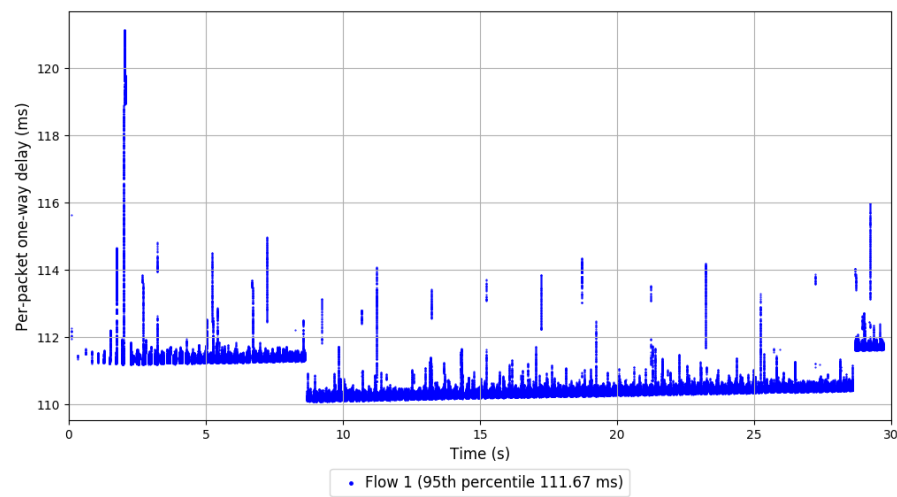
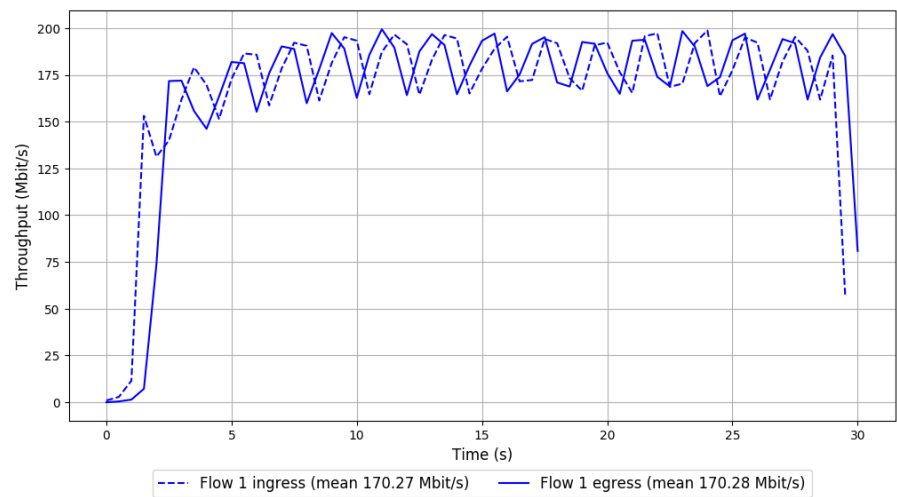
-- Flow 1:

Average throughput: 170.28 Mbit/s

95th percentile per-packet one-way delay: 111.673 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-05-24 02:00:34

End at: 2018-05-24 02:01:04

Local clock offset: -4.863 ms

Remote clock offset: 4.771 ms

Below is generated by plot.py at 2018-05-24 03:43:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 147.26 Mbit/s

95th percentile per-packet one-way delay: 111.270 ms

Loss rate: 0.00%

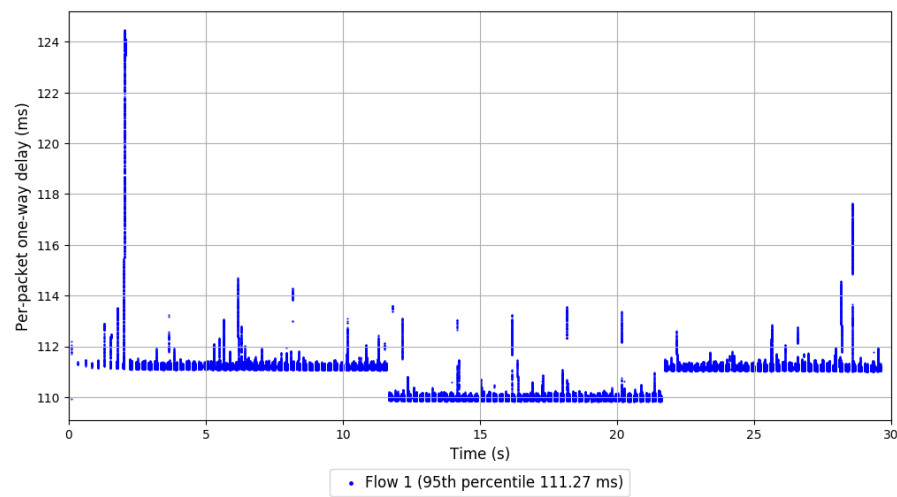
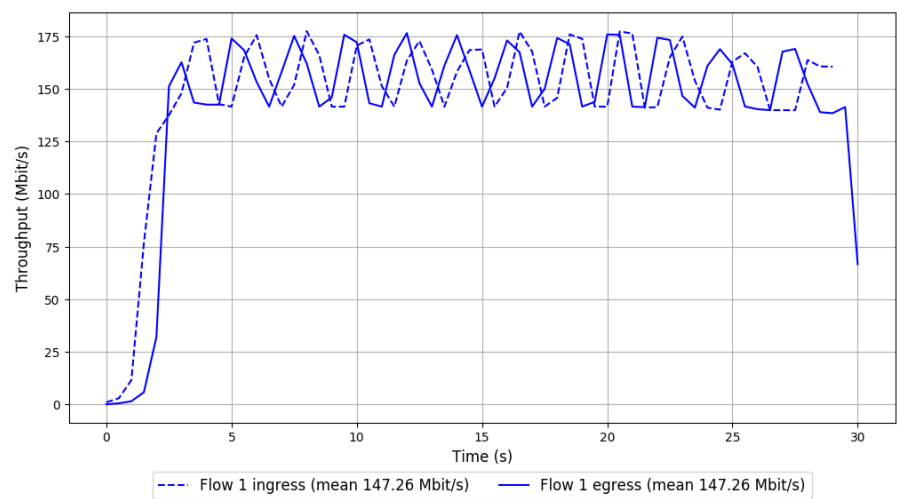
-- Flow 1:

Average throughput: 147.26 Mbit/s

95th percentile per-packet one-way delay: 111.270 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-05-24 02:21:22

End at: 2018-05-24 02:21:52

Local clock offset: -1.738 ms

Remote clock offset: 1.964 ms

Below is generated by plot.py at 2018-05-24 03:43:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.16 Mbit/s

95th percentile per-packet one-way delay: 115.293 ms

Loss rate: 0.05%

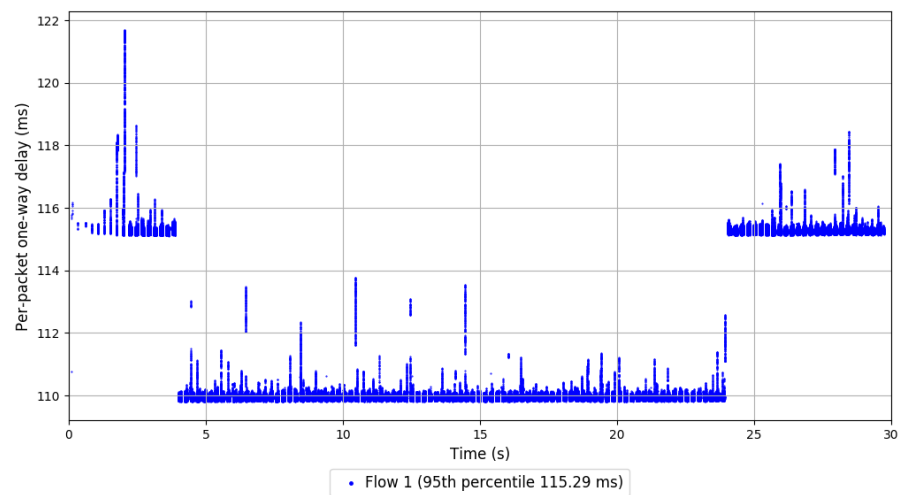
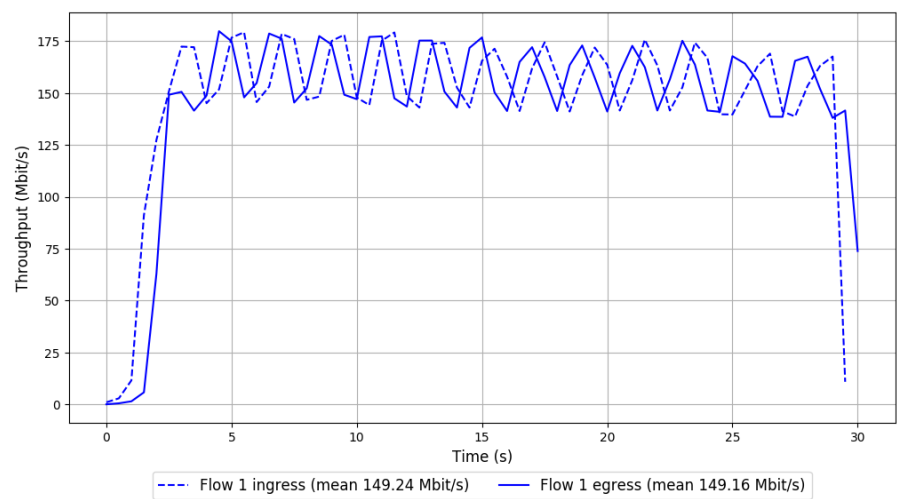
-- Flow 1:

Average throughput: 149.16 Mbit/s

95th percentile per-packet one-way delay: 115.293 ms

Loss rate: 0.05%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-05-24 02:41:41

End at: 2018-05-24 02:42:11

Local clock offset: -1.363 ms

Remote clock offset: 2.686 ms

Below is generated by plot.py at 2018-05-24 03:43:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 144.26 Mbit/s

95th percentile per-packet one-way delay: 115.763 ms

Loss rate: 0.05%

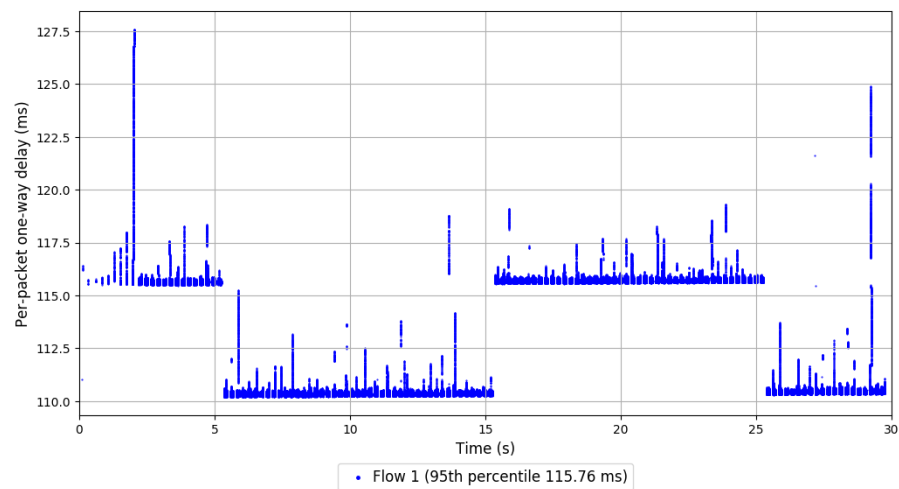
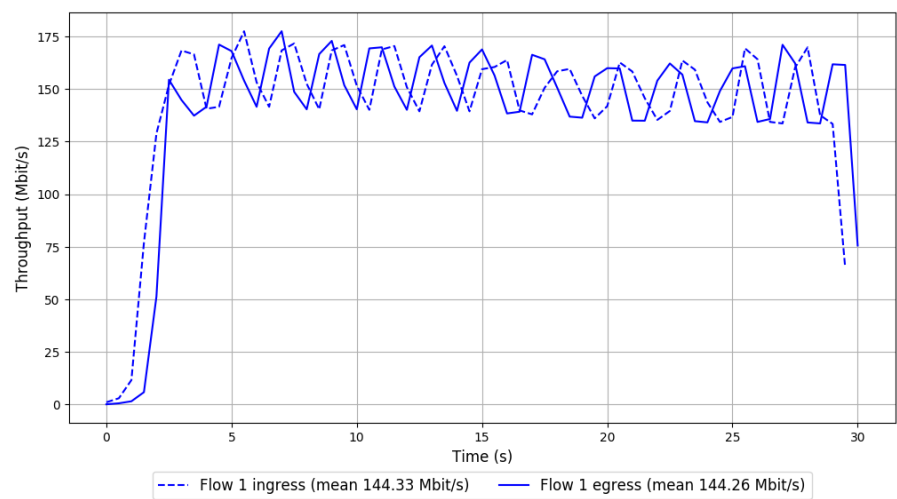
-- Flow 1:

Average throughput: 144.26 Mbit/s

95th percentile per-packet one-way delay: 115.763 ms

Loss rate: 0.05%

Run 10: Report of Indigo — Data Link

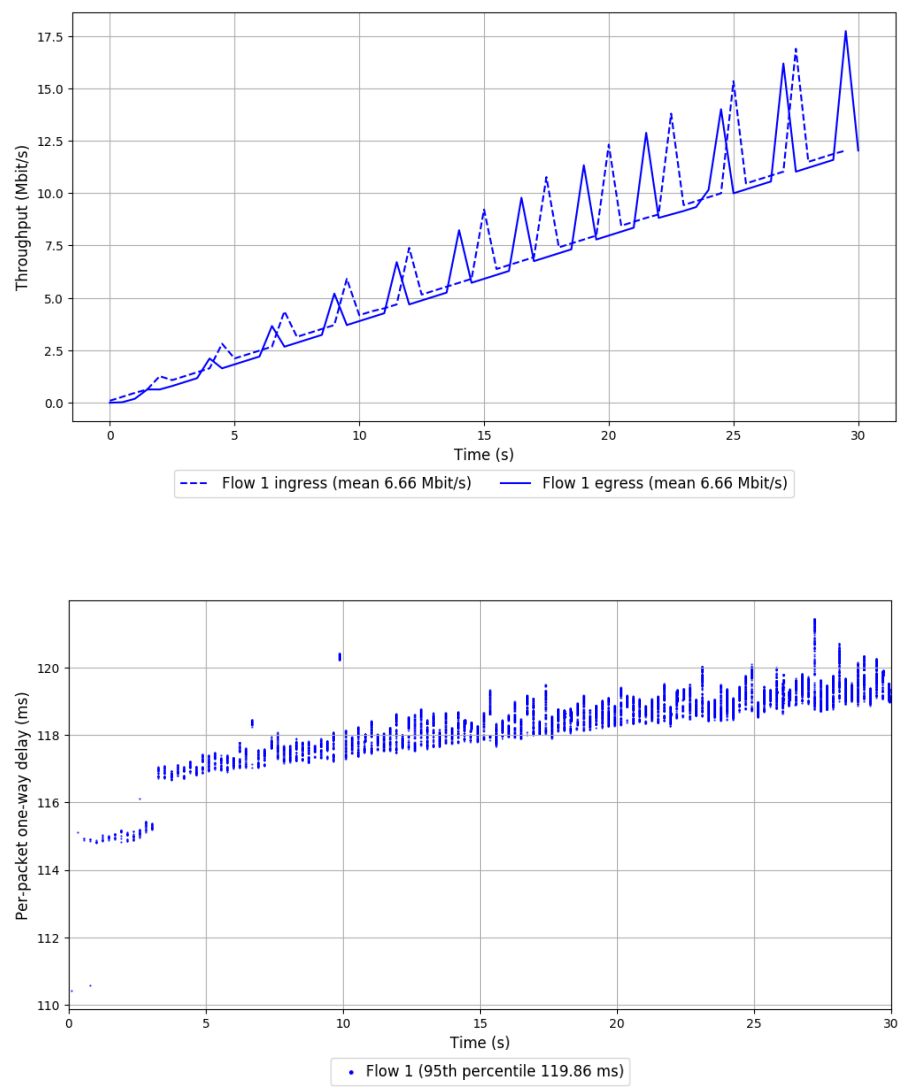


```
Run 1: Statistics of LEDBAT

Start at: 2018-05-23 23:50:13
End at: 2018-05-23 23:50:43
Local clock offset: -27.011 ms
Remote clock offset: 43.837 ms

# Below is generated by plot.py at 2018-05-24 03:43:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.66 Mbit/s
95th percentile per-packet one-way delay: 119.865 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.66 Mbit/s
95th percentile per-packet one-way delay: 119.865 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

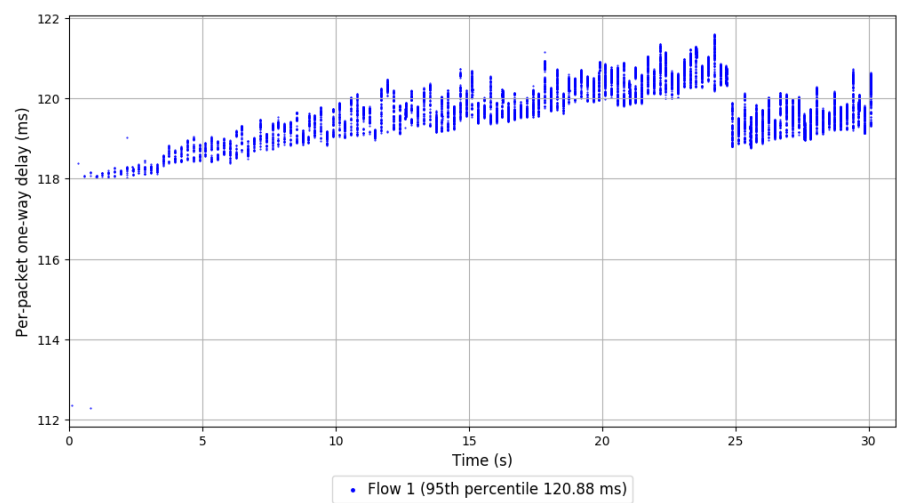
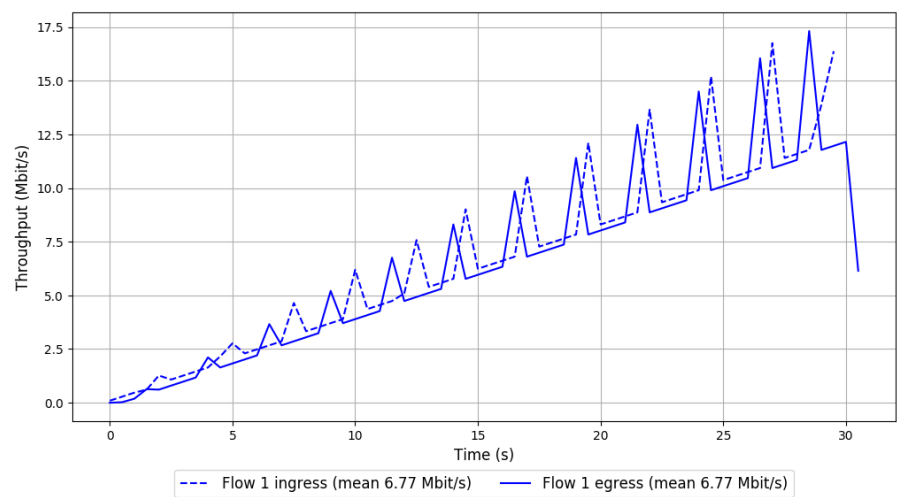


Run 2: Statistics of LEDBAT

Start at: 2018-05-24 00:10:22
End at: 2018-05-24 00:10:52
Local clock offset: -21.302 ms
Remote clock offset: 38.963 ms

Below is generated by plot.py at 2018-05-24 03:43:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.77 Mbit/s
95th percentile per-packet one-way delay: 120.877 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.77 Mbit/s
95th percentile per-packet one-way delay: 120.877 ms
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

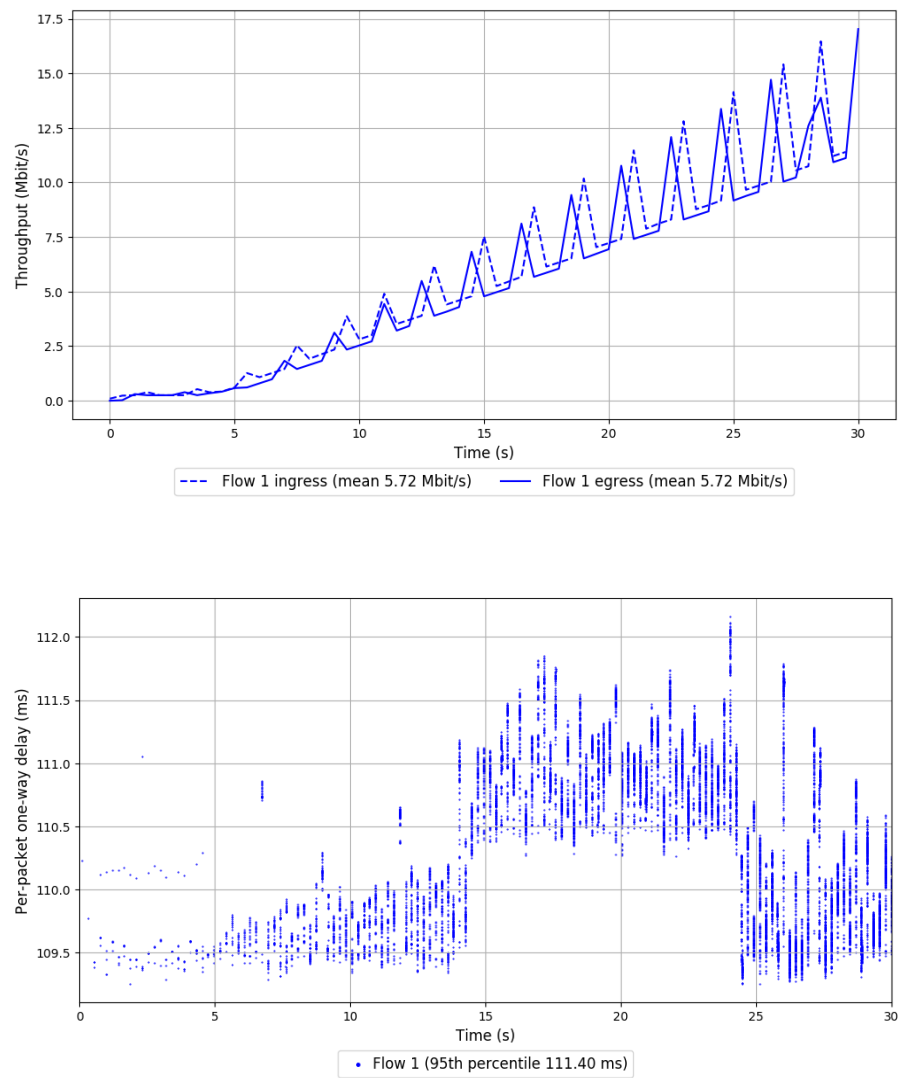


Run 3: Statistics of LEDBAT

Start at: 2018-05-24 00:30:52
End at: 2018-05-24 00:31:22
Local clock offset: -20.004 ms
Remote clock offset: 24.709 ms

Below is generated by plot.py at 2018-05-24 03:43:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.72 Mbit/s
95th percentile per-packet one-way delay: 111.400 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.72 Mbit/s
95th percentile per-packet one-way delay: 111.400 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

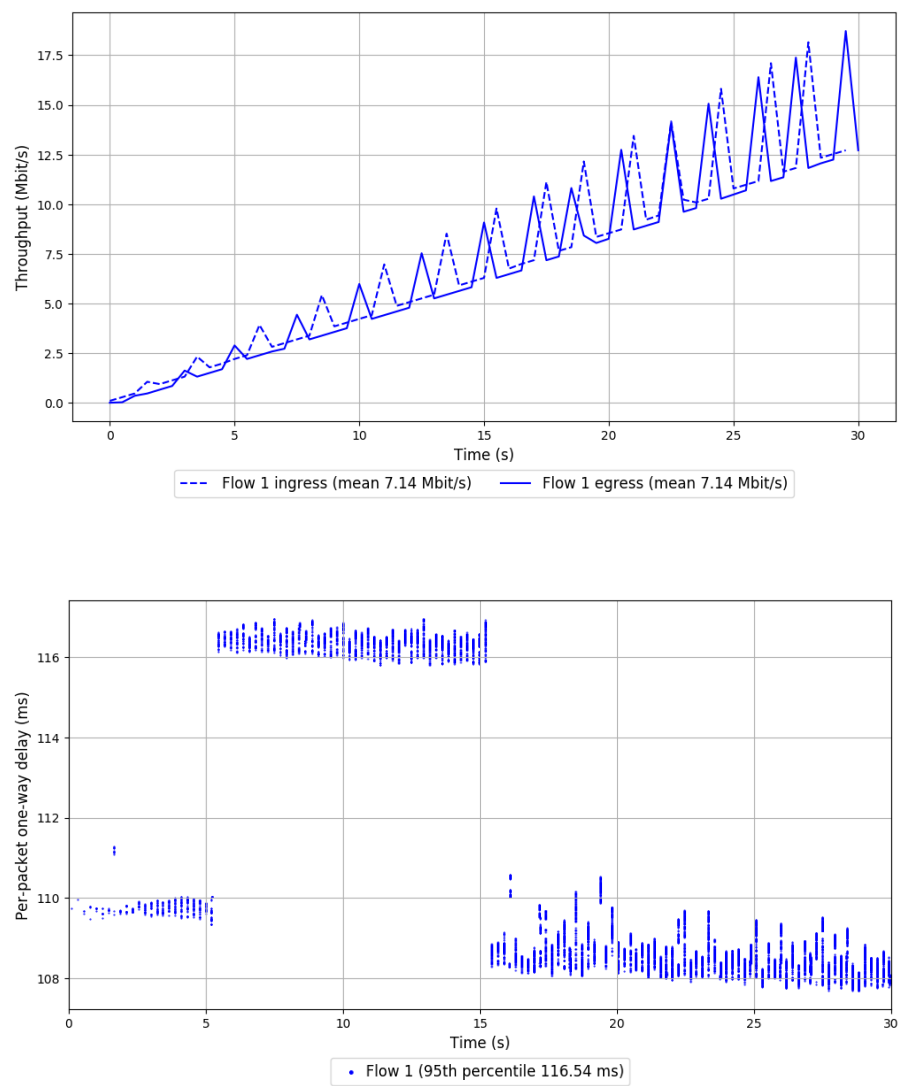


Run 4: Statistics of LEDBAT

Start at: 2018-05-24 00:51:11
End at: 2018-05-24 00:51:41
Local clock offset: -36.185 ms
Remote clock offset: 39.194 ms

Below is generated by plot.py at 2018-05-24 03:43:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.14 Mbit/s
95th percentile per-packet one-way delay: 116.536 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.14 Mbit/s
95th percentile per-packet one-way delay: 116.536 ms
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

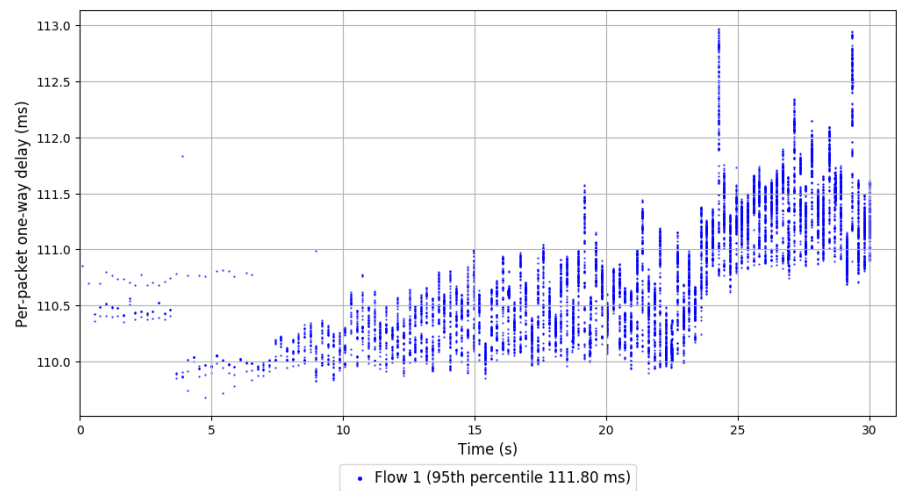
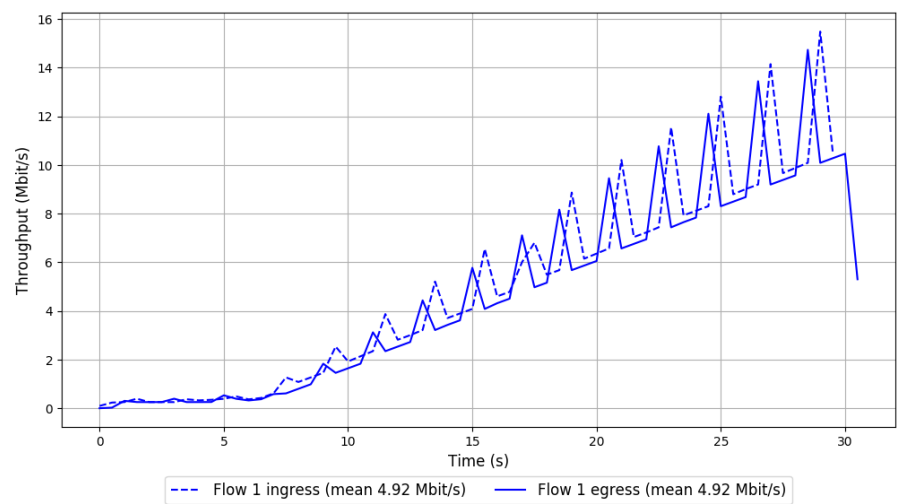


Run 5: Statistics of LEDBAT

Start at: 2018-05-24 01:12:13
End at: 2018-05-24 01:12:43
Local clock offset: -14.851 ms
Remote clock offset: 14.433 ms

Below is generated by plot.py at 2018-05-24 03:43:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.92 Mbit/s
95th percentile per-packet one-way delay: 111.804 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.92 Mbit/s
95th percentile per-packet one-way delay: 111.804 ms
Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

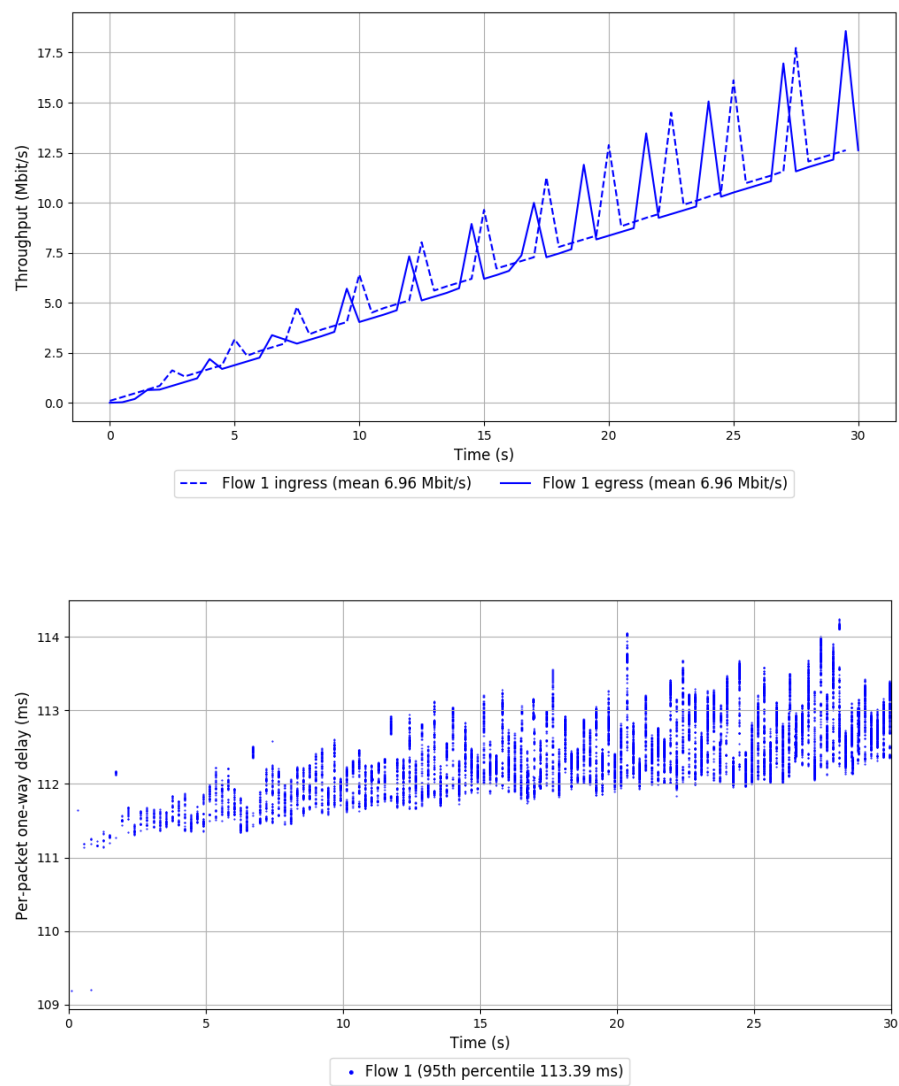


Run 6: Statistics of LEDBAT

Start at: 2018-05-24 01:32:55
End at: 2018-05-24 01:33:25
Local clock offset: -12.668 ms
Remote clock offset: 11.645 ms

Below is generated by plot.py at 2018-05-24 03:43:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.96 Mbit/s
95th percentile per-packet one-way delay: 113.385 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.96 Mbit/s
95th percentile per-packet one-way delay: 113.385 ms
Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-05-24 01:54:00

End at: 2018-05-24 01:54:30

Local clock offset: -4.063 ms

Remote clock offset: 4.273 ms

Below is generated by plot.py at 2018-05-24 03:43:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.05 Mbit/s

95th percentile per-packet one-way delay: 111.905 ms

Loss rate: 0.00%

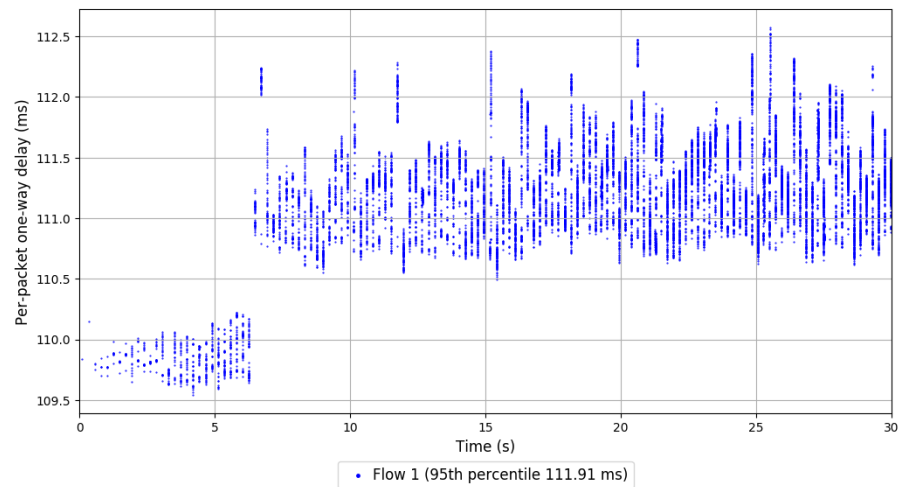
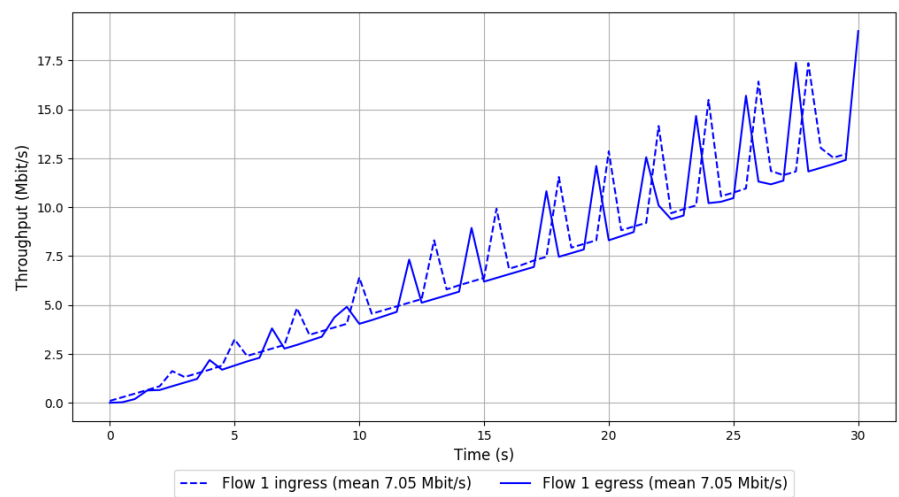
-- Flow 1:

Average throughput: 7.05 Mbit/s

95th percentile per-packet one-way delay: 111.905 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-05-24 02:14:51

End at: 2018-05-24 02:15:21

Local clock offset: -1.971 ms

Remote clock offset: 2.615 ms

Below is generated by plot.py at 2018-05-24 03:43:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.55 Mbit/s

95th percentile per-packet one-way delay: 118.667 ms

Loss rate: 0.00%

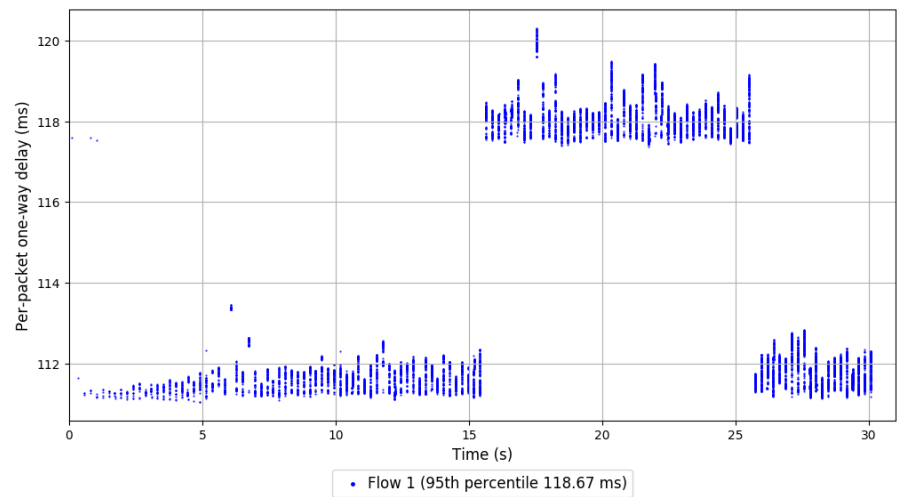
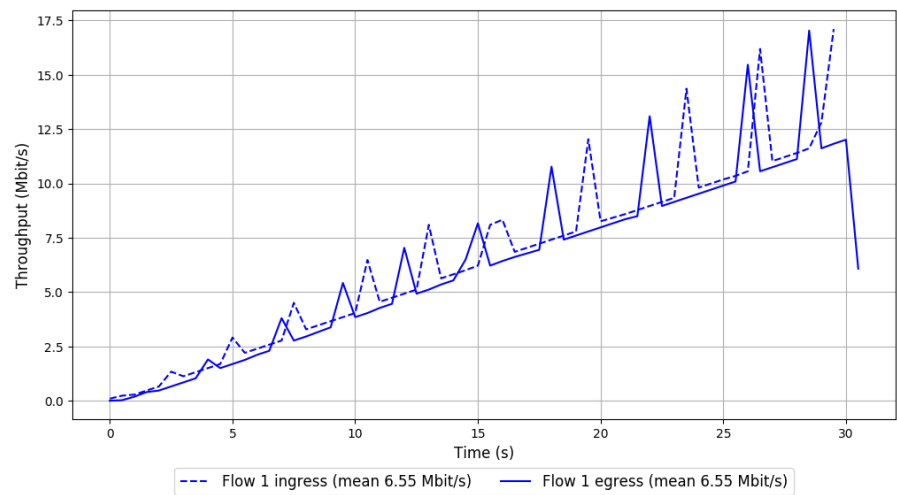
-- Flow 1:

Average throughput: 6.55 Mbit/s

95th percentile per-packet one-way delay: 118.667 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-05-24 02:35:15

End at: 2018-05-24 02:35:45

Local clock offset: -2.054 ms

Remote clock offset: 2.545 ms

Below is generated by plot.py at 2018-05-24 03:43:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.90 Mbit/s

95th percentile per-packet one-way delay: 116.325 ms

Loss rate: 0.08%

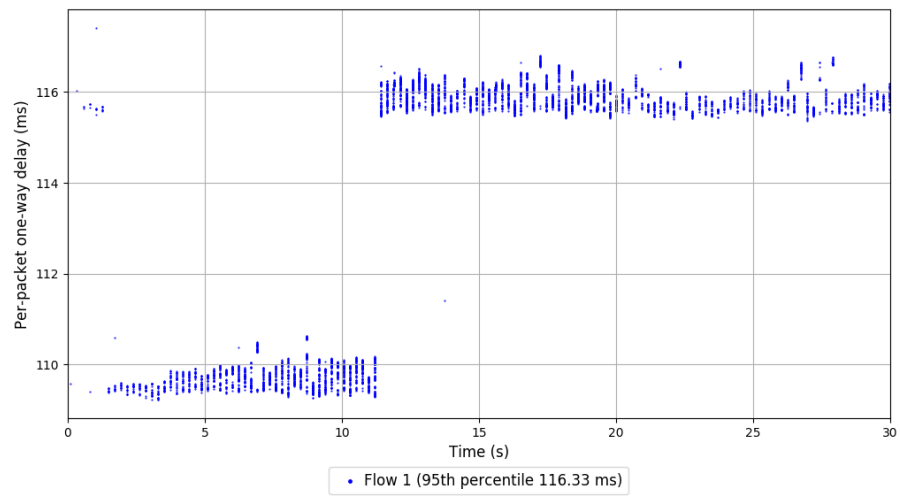
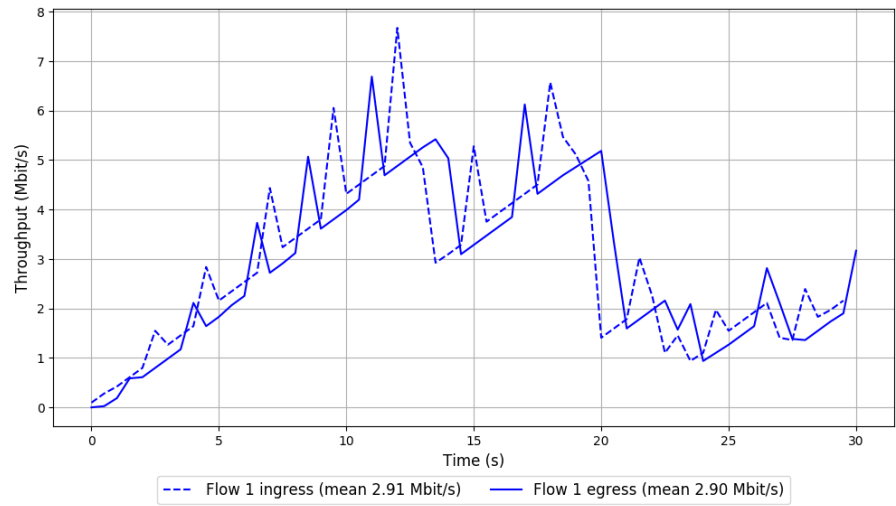
-- Flow 1:

Average throughput: 2.90 Mbit/s

95th percentile per-packet one-way delay: 116.325 ms

Loss rate: 0.08%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-05-24 02:55:53

End at: 2018-05-24 02:56:23

Local clock offset: -0.807 ms

Remote clock offset: 0.823 ms

Below is generated by plot.py at 2018-05-24 03:43:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.13 Mbit/s

95th percentile per-packet one-way delay: 116.420 ms

Loss rate: 0.00%

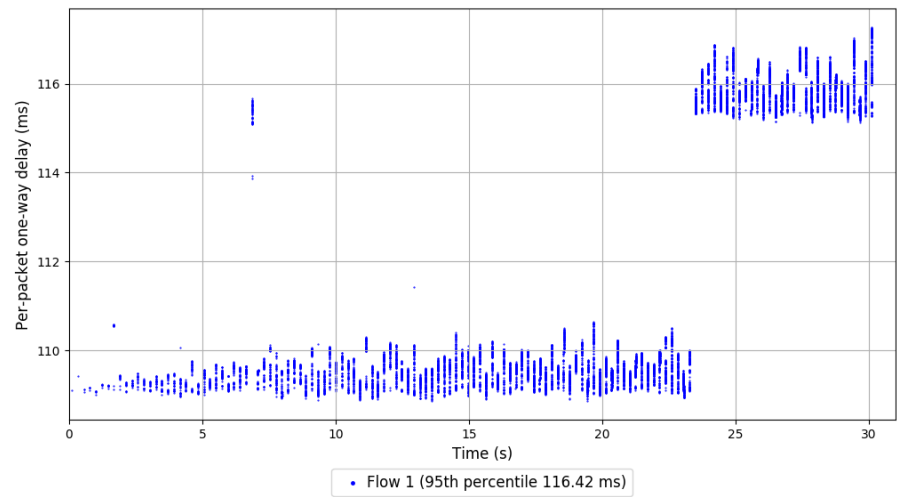
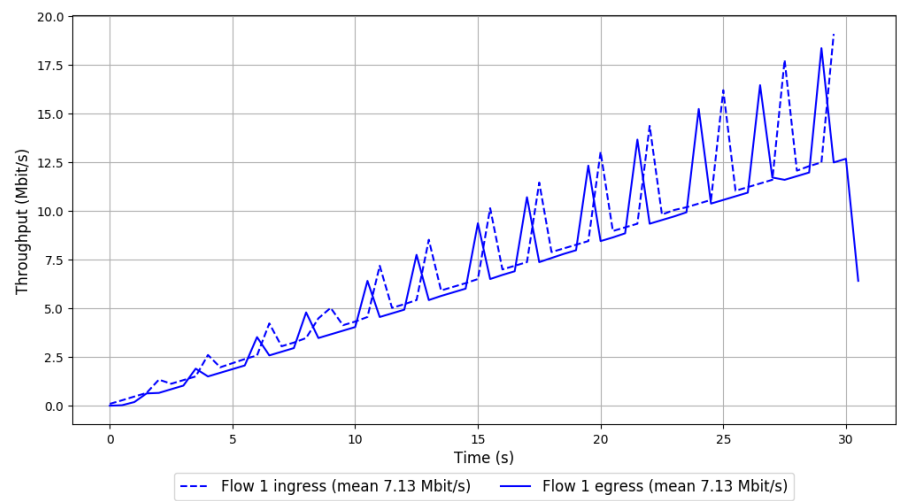
-- Flow 1:

Average throughput: 7.13 Mbit/s

95th percentile per-packet one-way delay: 116.420 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

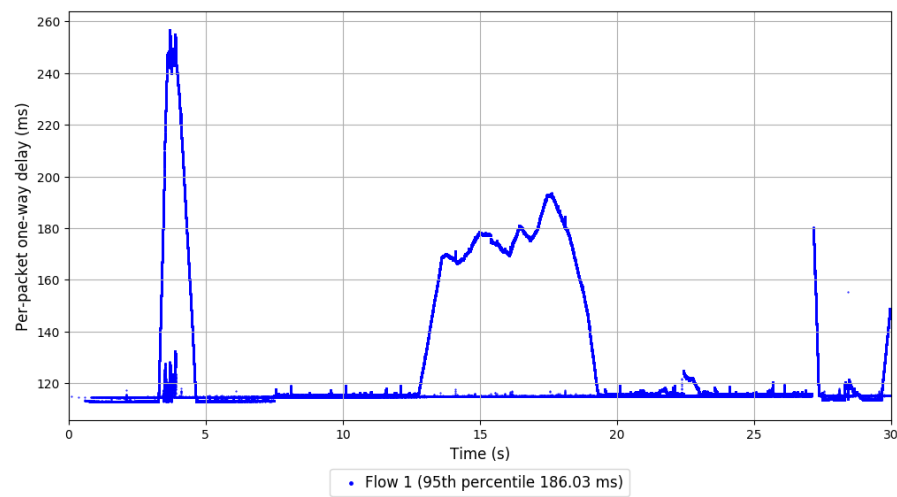
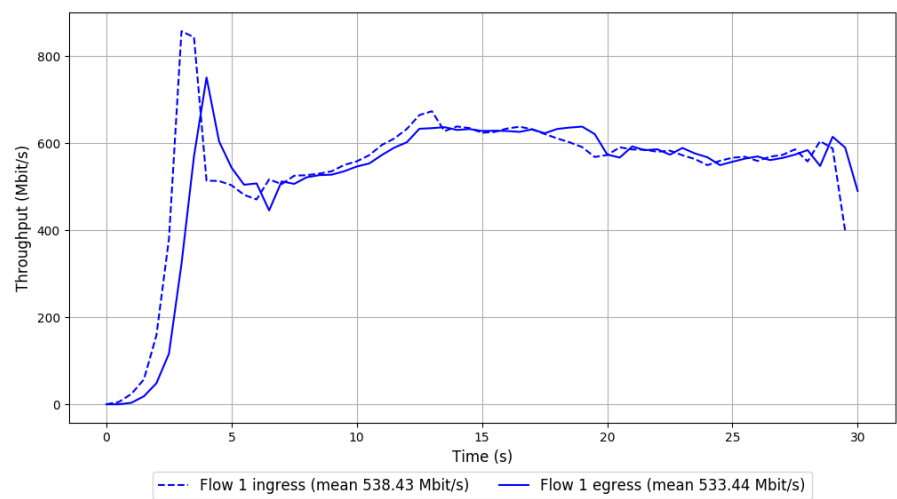


Run 1: Statistics of PCC-Allegro

Start at: 2018-05-23 23:45:49
End at: 2018-05-23 23:46:19
Local clock offset: -35.194 ms
Remote clock offset: 25.64 ms

Below is generated by plot.py at 2018-05-24 03:43:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 533.44 Mbit/s
95th percentile per-packet one-way delay: 186.032 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 533.44 Mbit/s
95th percentile per-packet one-way delay: 186.032 ms
Loss rate: 0.93%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-24 00:06:04

End at: 2018-05-24 00:06:34

Local clock offset: -32.33 ms

Remote clock offset: 63.117 ms

Below is generated by plot.py at 2018-05-24 03:43:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 484.96 Mbit/s

95th percentile per-packet one-way delay: 245.458 ms

Loss rate: 0.91%

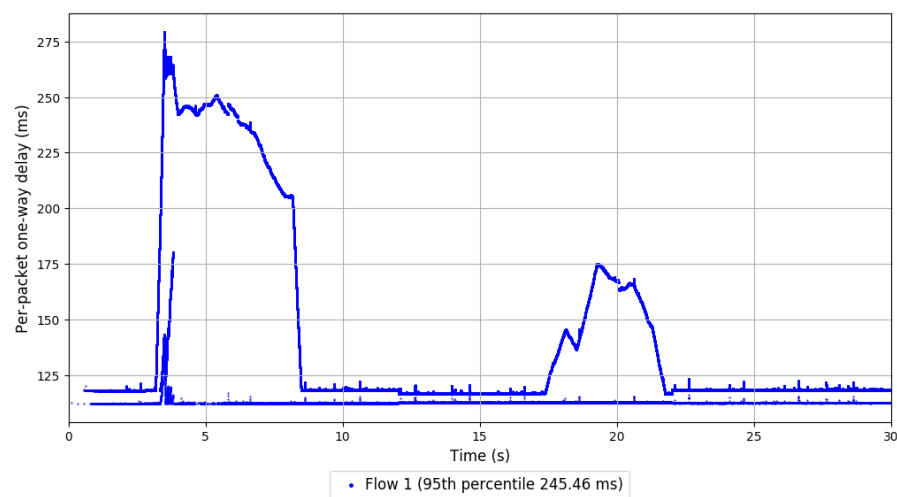
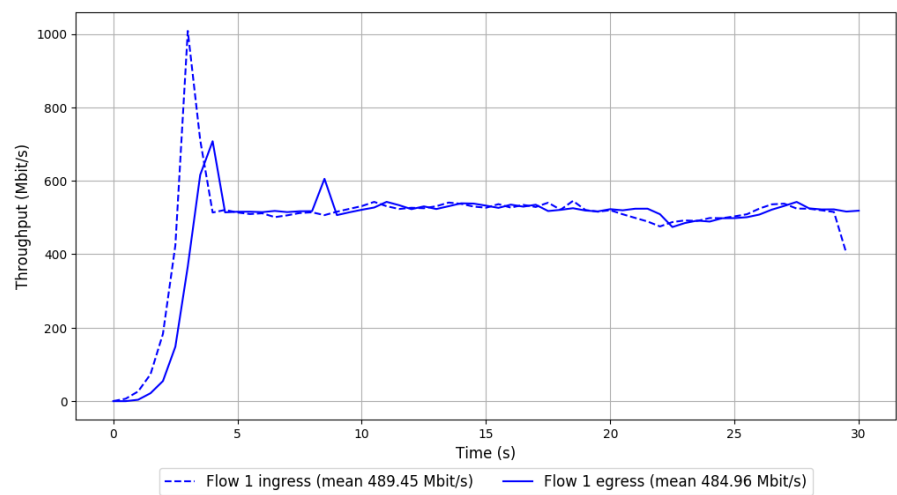
-- Flow 1:

Average throughput: 484.96 Mbit/s

95th percentile per-packet one-way delay: 245.458 ms

Loss rate: 0.91%

Run 2: Report of PCC-Allegro — Data Link

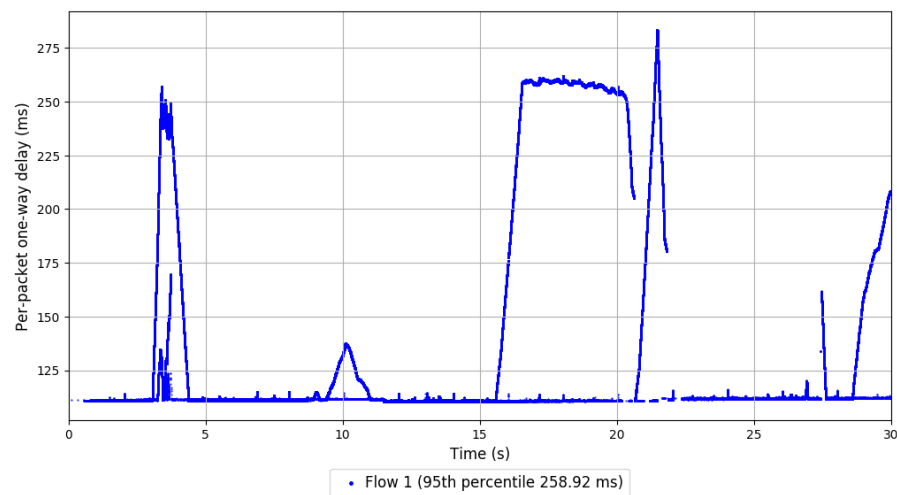
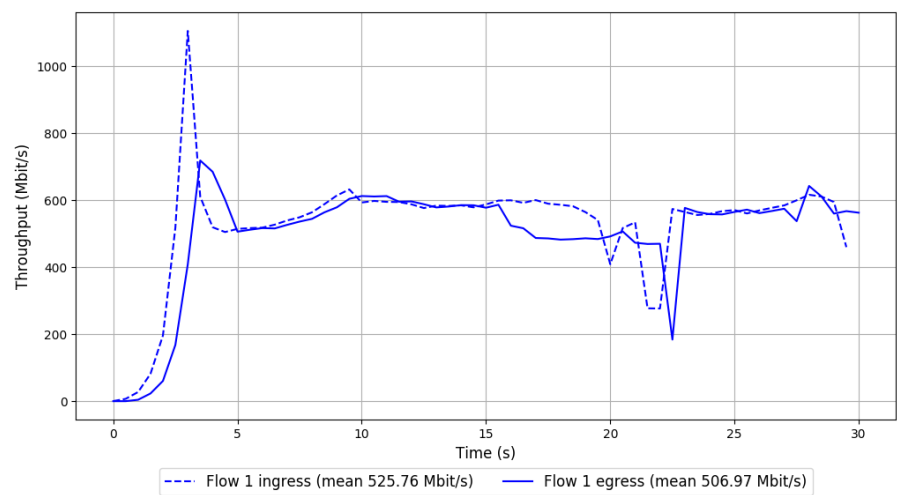


Run 3: Statistics of PCC-Allegro

Start at: 2018-05-24 00:26:35
End at: 2018-05-24 00:27:05
Local clock offset: -20.618 ms
Remote clock offset: 29.259 ms

Below is generated by plot.py at 2018-05-24 03:43:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 506.97 Mbit/s
95th percentile per-packet one-way delay: 258.924 ms
Loss rate: 3.57%
-- Flow 1:
Average throughput: 506.97 Mbit/s
95th percentile per-packet one-way delay: 258.924 ms
Loss rate: 3.57%

Run 3: Report of PCC-Allegro — Data Link

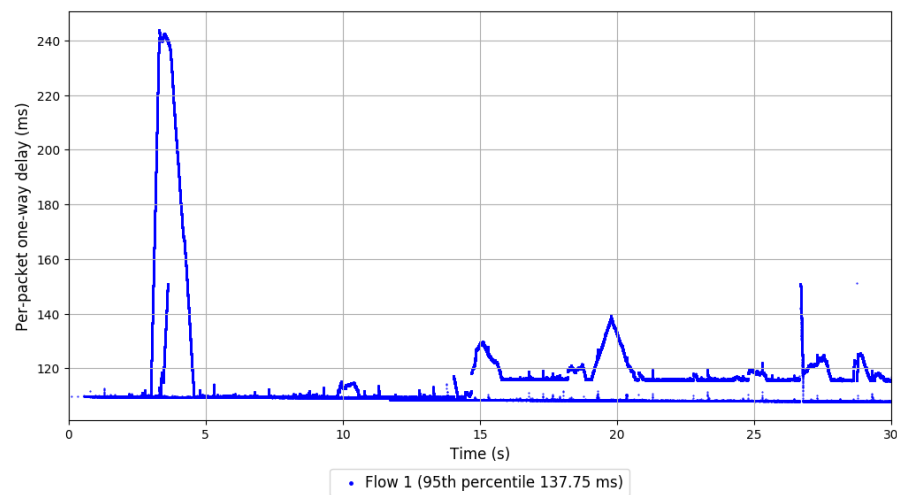
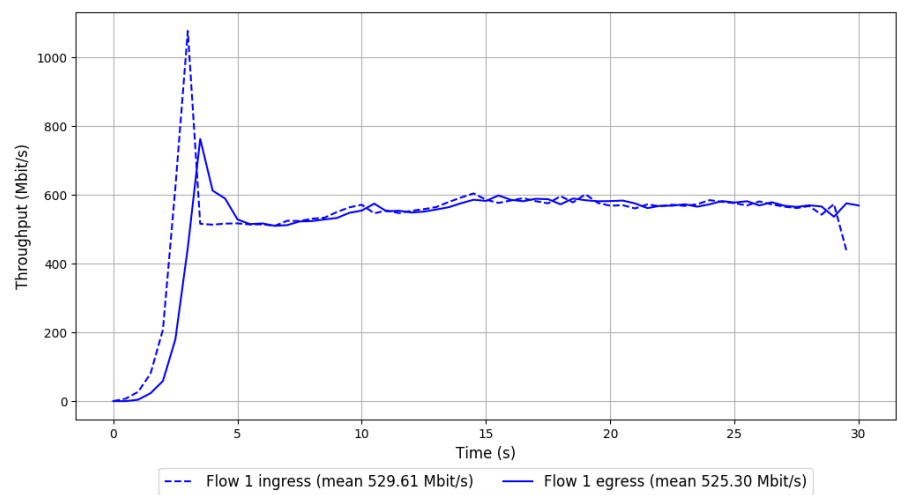


Run 4: Statistics of PCC-Allegro

Start at: 2018-05-24 00:46:51
End at: 2018-05-24 00:47:21
Local clock offset: -31.437 ms
Remote clock offset: 34.487 ms

Below is generated by plot.py at 2018-05-24 03:43:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 525.30 Mbit/s
95th percentile per-packet one-way delay: 137.750 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 525.30 Mbit/s
95th percentile per-packet one-way delay: 137.750 ms
Loss rate: 0.81%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-05-24 01:07:42

End at: 2018-05-24 01:08:12

Local clock offset: -15.83 ms

Remote clock offset: 20.208 ms

Below is generated by plot.py at 2018-05-24 03:43:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 533.31 Mbit/s

95th percentile per-packet one-way delay: 188.939 ms

Loss rate: 0.75%

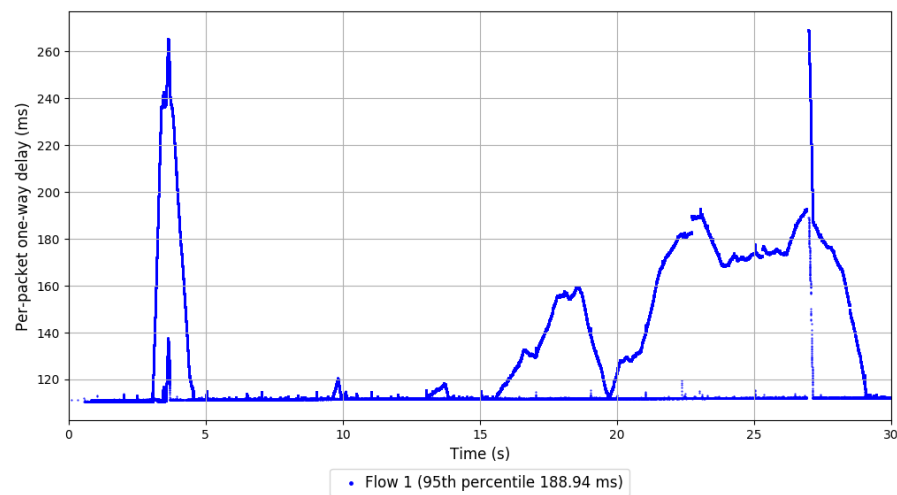
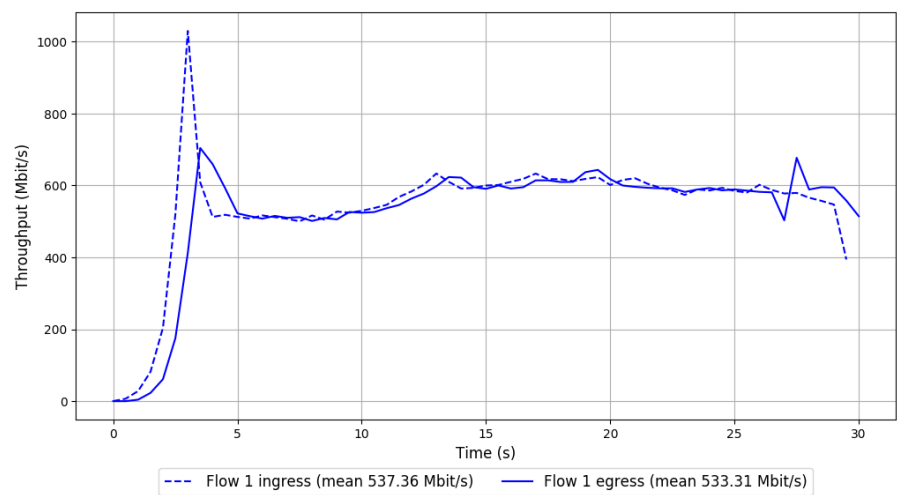
-- Flow 1:

Average throughput: 533.31 Mbit/s

95th percentile per-packet one-way delay: 188.939 ms

Loss rate: 0.75%

Run 5: Report of PCC-Allegro — Data Link

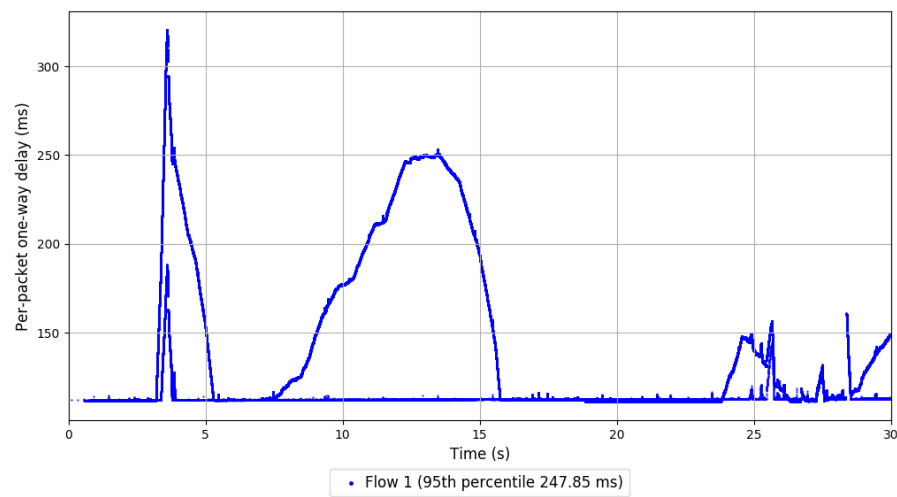
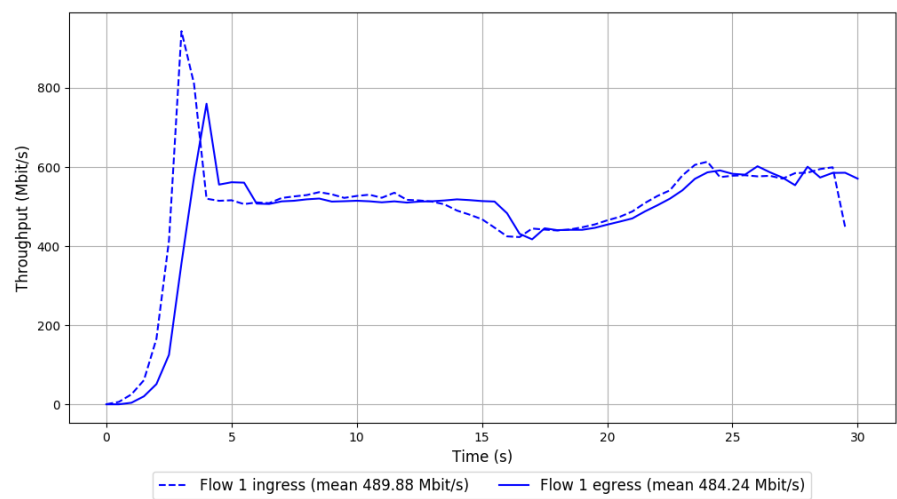


Run 6: Statistics of PCC-Allegro

Start at: 2018-05-24 01:28:37
End at: 2018-05-24 01:29:07
Local clock offset: -20.01 ms
Remote clock offset: 11.527 ms

Below is generated by plot.py at 2018-05-24 03:43:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 484.24 Mbit/s
95th percentile per-packet one-way delay: 247.853 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 484.24 Mbit/s
95th percentile per-packet one-way delay: 247.853 ms
Loss rate: 1.15%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-05-24 01:49:25

End at: 2018-05-24 01:49:55

Local clock offset: -4.209 ms

Remote clock offset: 4.637 ms

Below is generated by plot.py at 2018-05-24 03:43:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 514.91 Mbit/s

95th percentile per-packet one-way delay: 129.275 ms

Loss rate: 0.84%

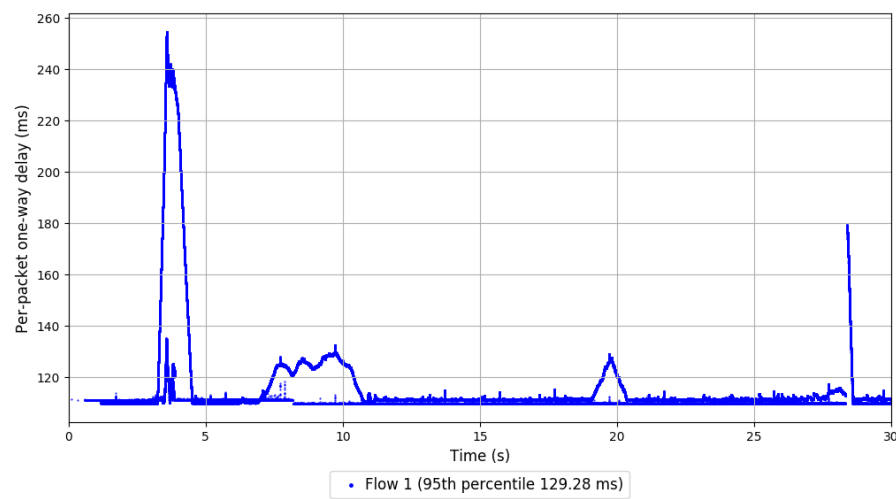
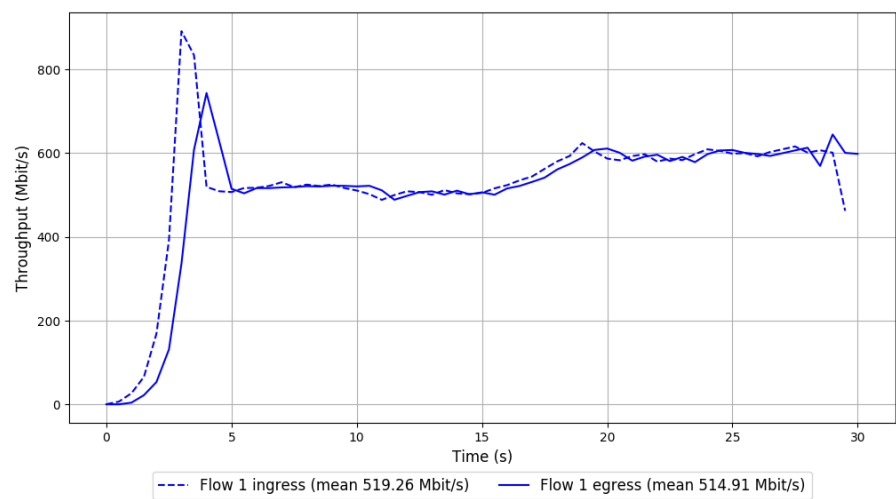
-- Flow 1:

Average throughput: 514.91 Mbit/s

95th percentile per-packet one-way delay: 129.275 ms

Loss rate: 0.84%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-05-24 02:10:17

End at: 2018-05-24 02:10:47

Local clock offset: -2.4 ms

Remote clock offset: 3.909 ms

Below is generated by plot.py at 2018-05-24 03:48:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 515.10 Mbit/s

95th percentile per-packet one-way delay: 247.435 ms

Loss rate: 1.51%

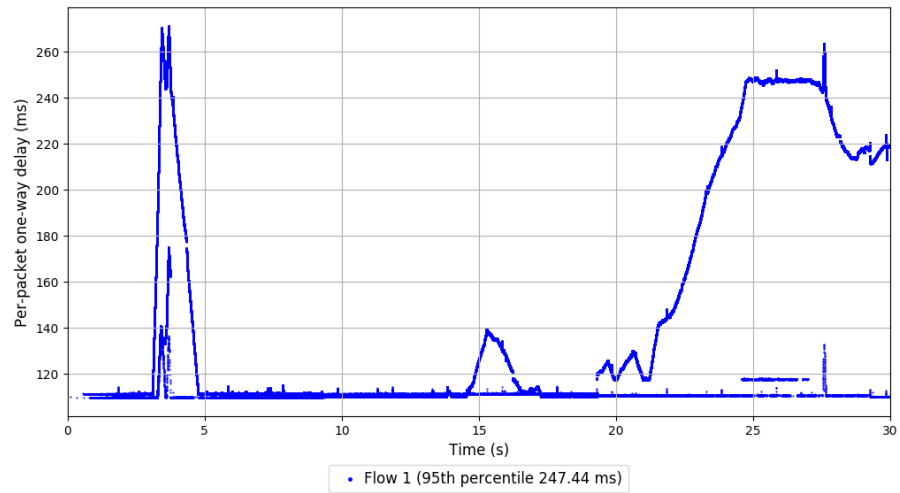
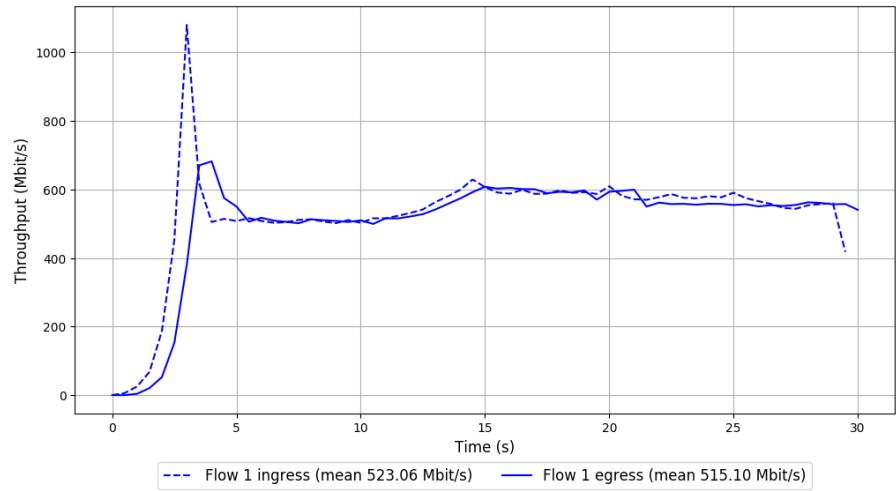
-- Flow 1:

Average throughput: 515.10 Mbit/s

95th percentile per-packet one-way delay: 247.435 ms

Loss rate: 1.51%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-05-24 02:31:08

End at: 2018-05-24 02:31:38

Local clock offset: -1.828 ms

Remote clock offset: 1.938 ms

Below is generated by plot.py at 2018-05-24 03:48:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 444.97 Mbit/s

95th percentile per-packet one-way delay: 219.943 ms

Loss rate: 1.02%

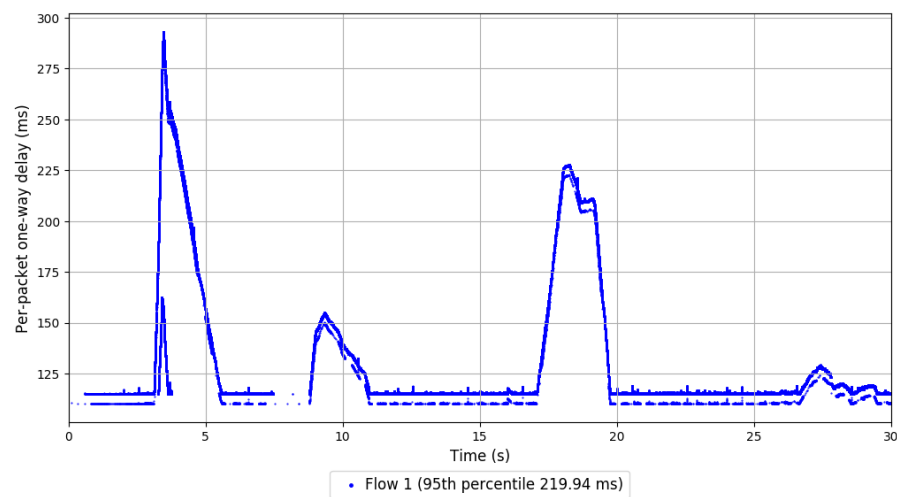
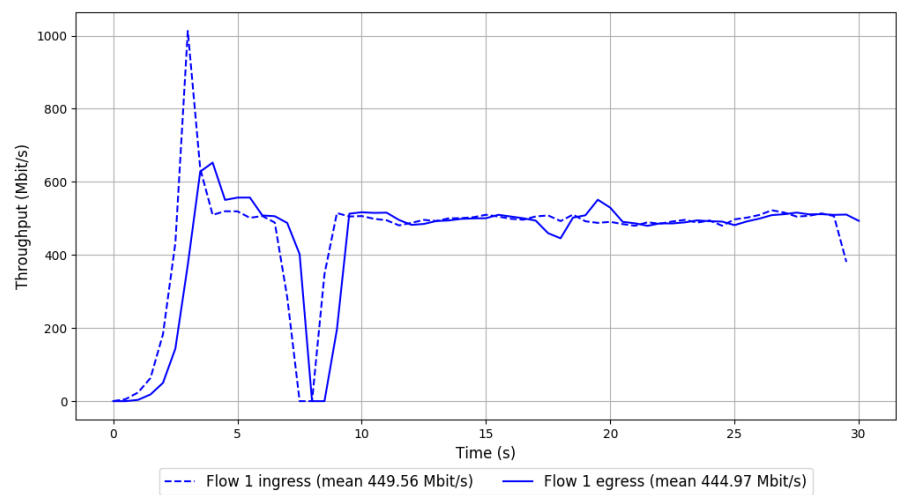
-- Flow 1:

Average throughput: 444.97 Mbit/s

95th percentile per-packet one-way delay: 219.943 ms

Loss rate: 1.02%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-05-24 02:51:32

End at: 2018-05-24 02:52:02

Local clock offset: -0.586 ms

Remote clock offset: 1.316 ms

Below is generated by plot.py at 2018-05-24 03:49:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 542.22 Mbit/s

95th percentile per-packet one-way delay: 233.765 ms

Loss rate: 1.19%

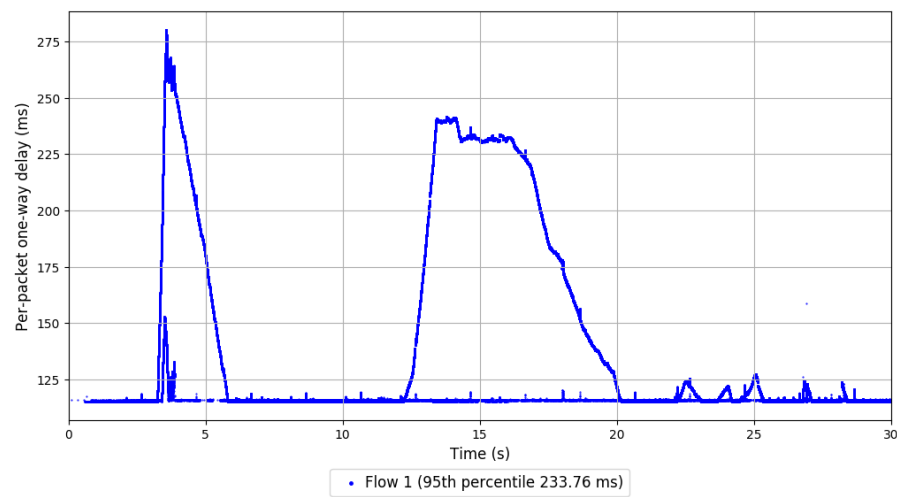
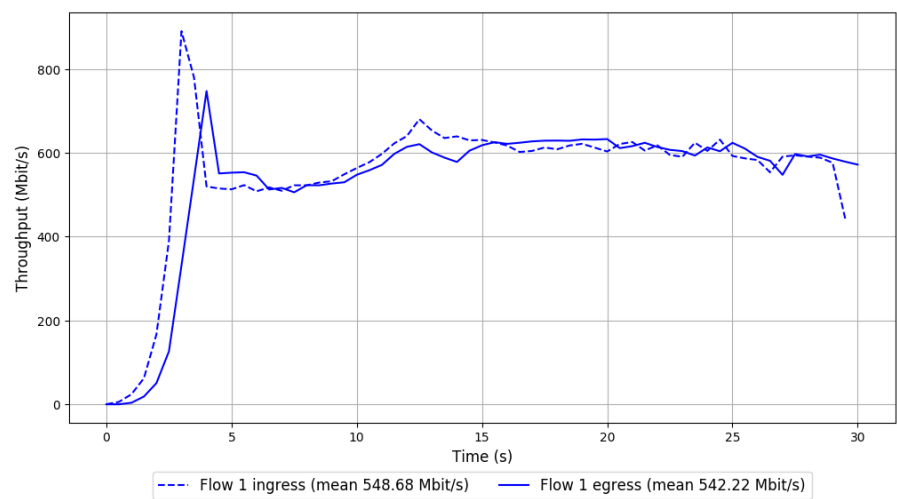
-- Flow 1:

Average throughput: 542.22 Mbit/s

95th percentile per-packet one-way delay: 233.765 ms

Loss rate: 1.19%

Run 10: Report of PCC-Allegro — Data Link

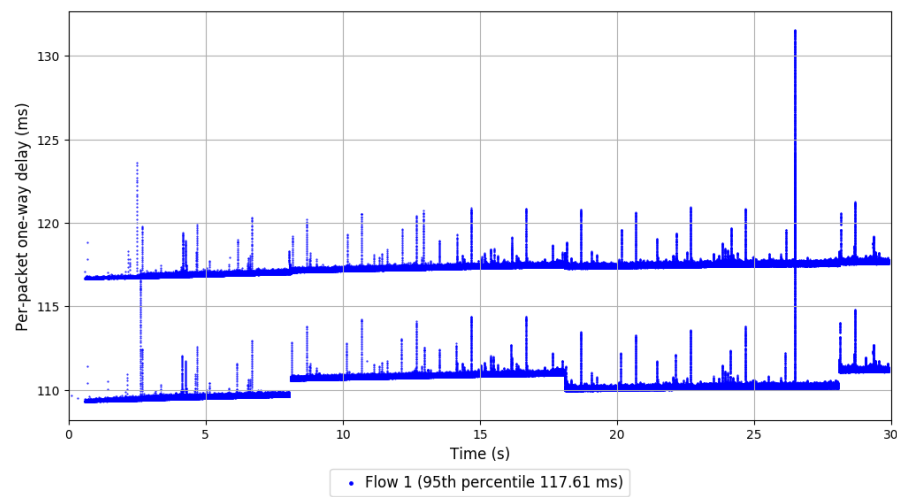
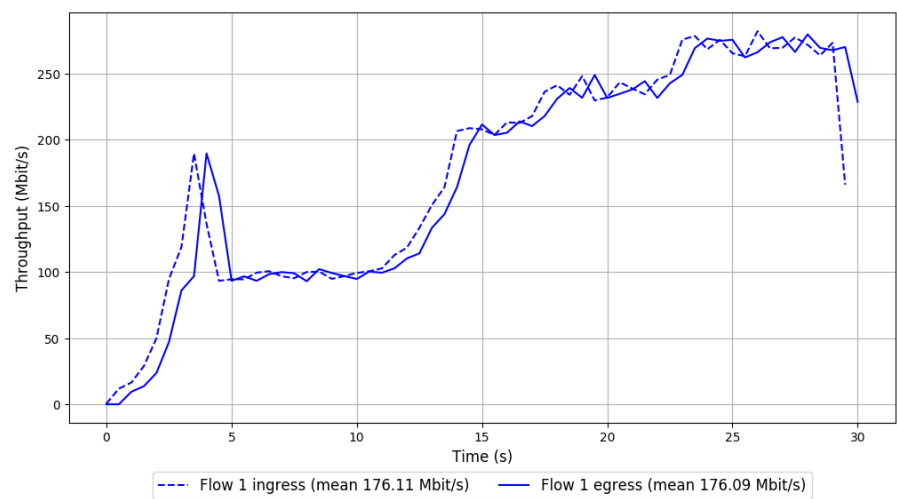


```
Run 1: Statistics of PCC-Expr

Start at: 2018-05-23 23:42:08
End at: 2018-05-23 23:42:38
Local clock offset: -21.548 ms
Remote clock offset: 27.922 ms

# Below is generated by plot.py at 2018-05-24 03:49:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 176.09 Mbit/s
95th percentile per-packet one-way delay: 117.613 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 176.09 Mbit/s
95th percentile per-packet one-way delay: 117.613 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Expr — Data Link

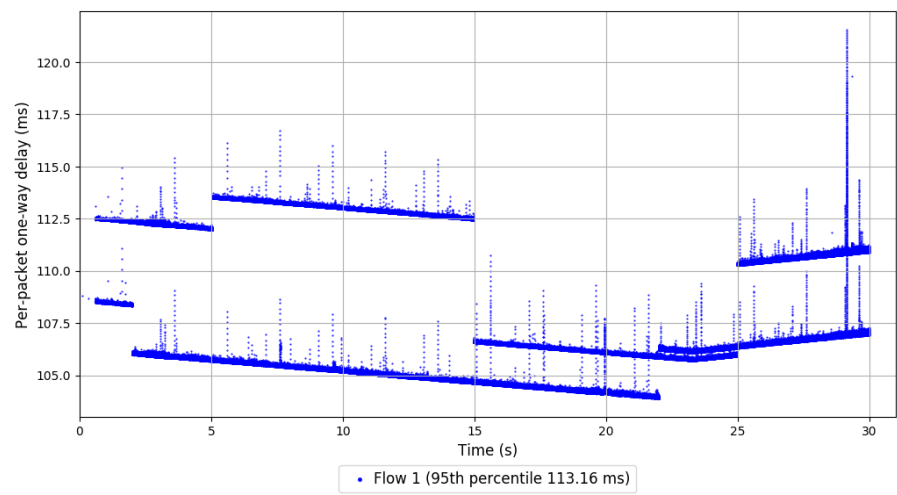
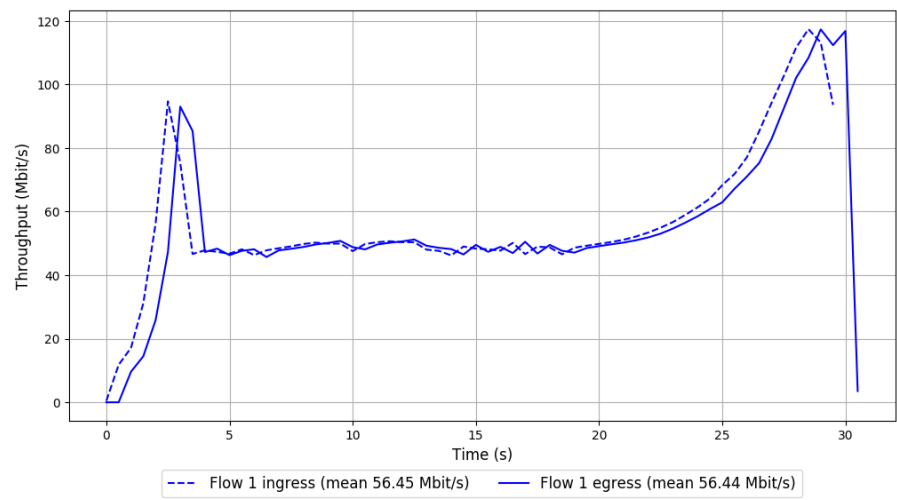


Run 2: Statistics of PCC-Expr

Start at: 2018-05-24 00:02:31
End at: 2018-05-24 00:03:01
Local clock offset: -51.468 ms
Remote clock offset: 49.972 ms

Below is generated by plot.py at 2018-05-24 03:49:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 56.44 Mbit/s
95th percentile per-packet one-way delay: 113.161 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 56.44 Mbit/s
95th percentile per-packet one-way delay: 113.161 ms
Loss rate: 0.00%

Run 2: Report of PCC-Expr — Data Link

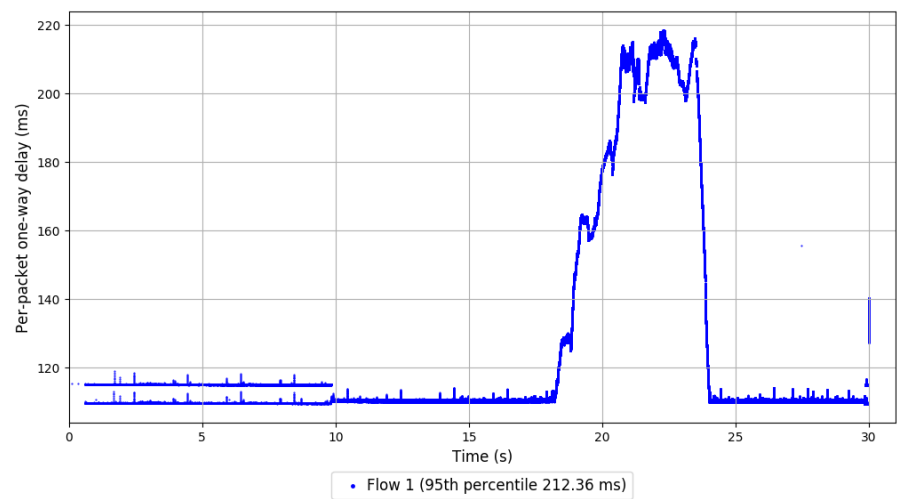
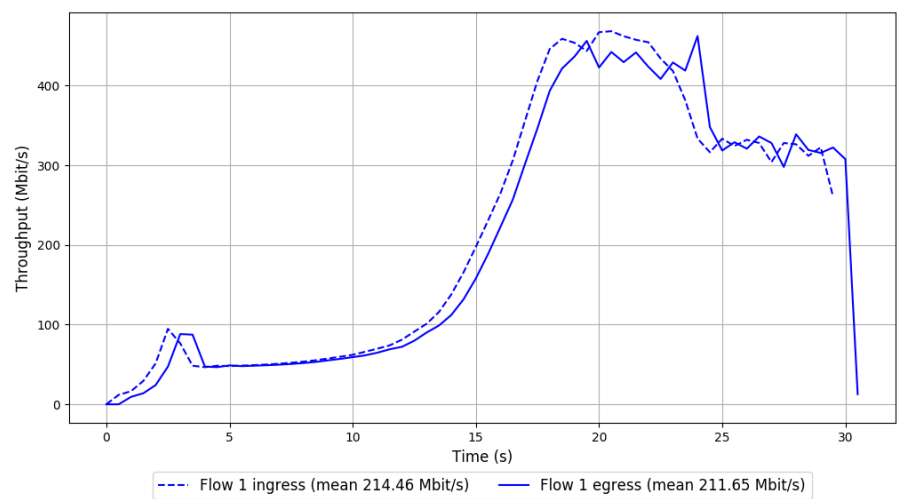


Run 3: Statistics of PCC-Expr

Start at: 2018-05-24 00:22:46
End at: 2018-05-24 00:23:16
Local clock offset: -23.442 ms
Remote clock offset: 31.238 ms

Below is generated by plot.py at 2018-05-24 03:49:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 211.65 Mbit/s
95th percentile per-packet one-way delay: 212.364 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 211.65 Mbit/s
95th percentile per-packet one-way delay: 212.364 ms
Loss rate: 1.33%

Run 3: Report of PCC-Expr — Data Link

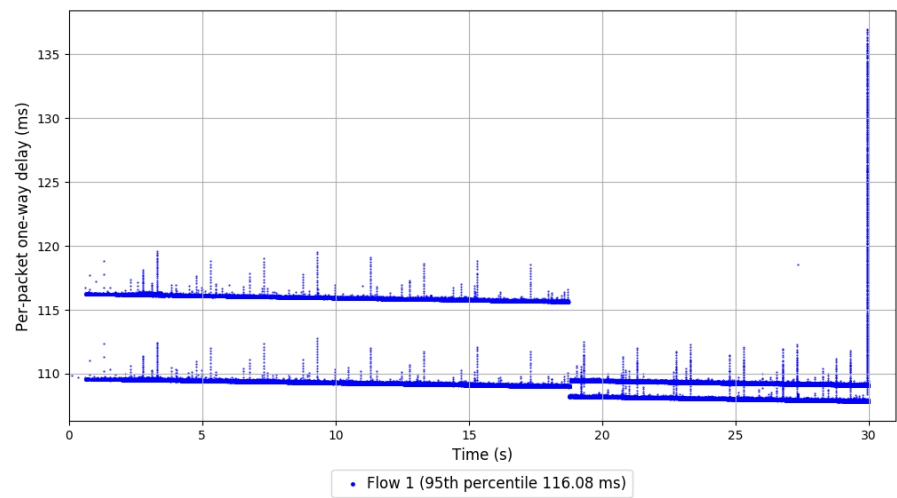
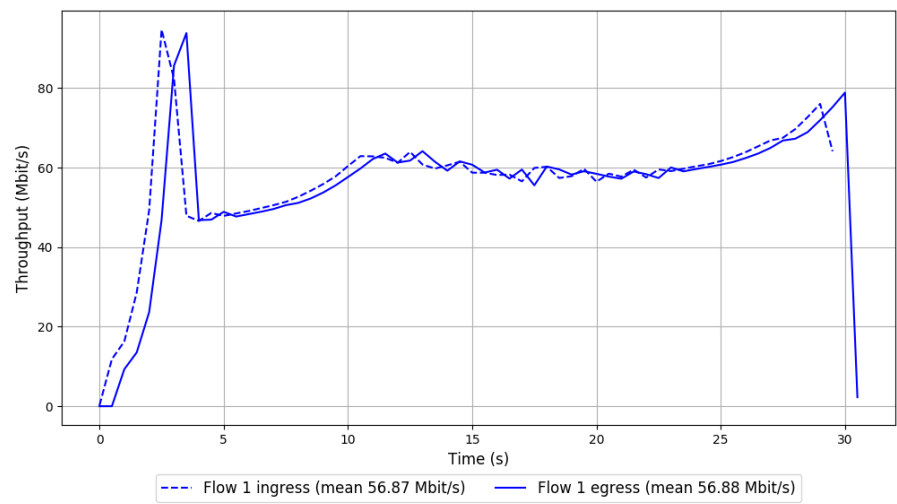


Run 4: Statistics of PCC-Expr

Start at: 2018-05-24 00:43:17
End at: 2018-05-24 00:43:47
Local clock offset: -28.118 ms
Remote clock offset: 30.191 ms

Below is generated by plot.py at 2018-05-24 03:49:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 56.88 Mbit/s
95th percentile per-packet one-way delay: 116.084 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 56.88 Mbit/s
95th percentile per-packet one-way delay: 116.084 ms
Loss rate: 0.00%

Run 4: Report of PCC-Expr — Data Link

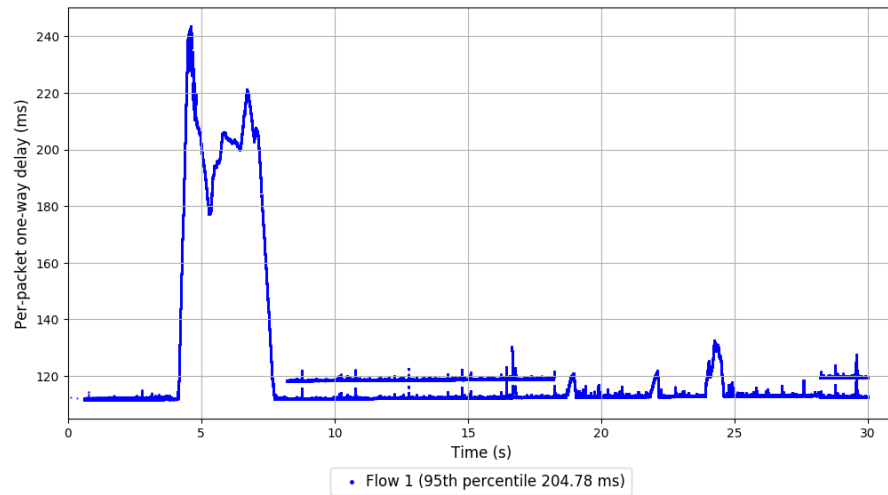
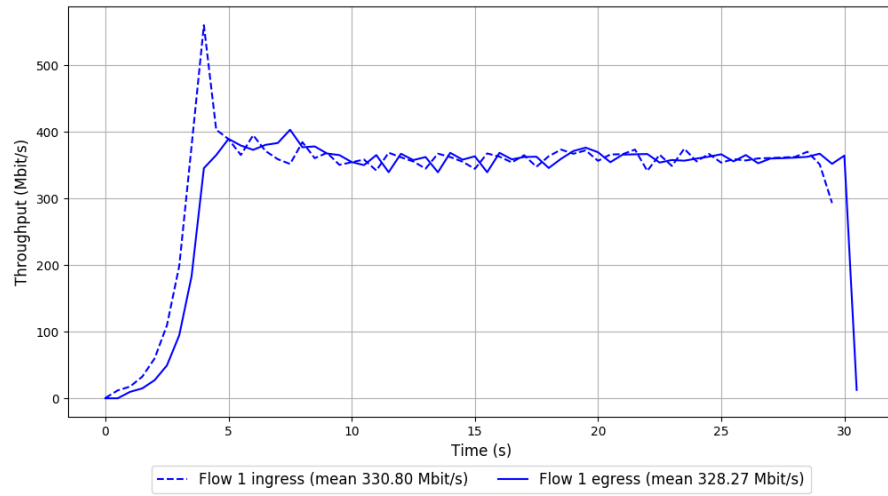


Run 5: Statistics of PCC-Expr

Start at: 2018-05-24 01:03:48
End at: 2018-05-24 01:04:18
Local clock offset: -18.631 ms
Remote clock offset: 28.499 ms

Below is generated by plot.py at 2018-05-24 03:52:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 328.27 Mbit/s
95th percentile per-packet one-way delay: 204.781 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 328.27 Mbit/s
95th percentile per-packet one-way delay: 204.781 ms
Loss rate: 0.76%

Run 5: Report of PCC-Expr — Data Link

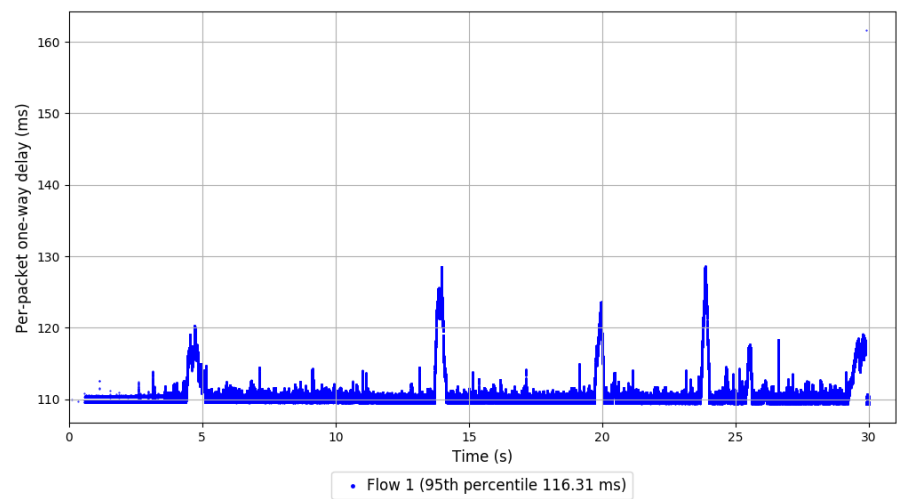
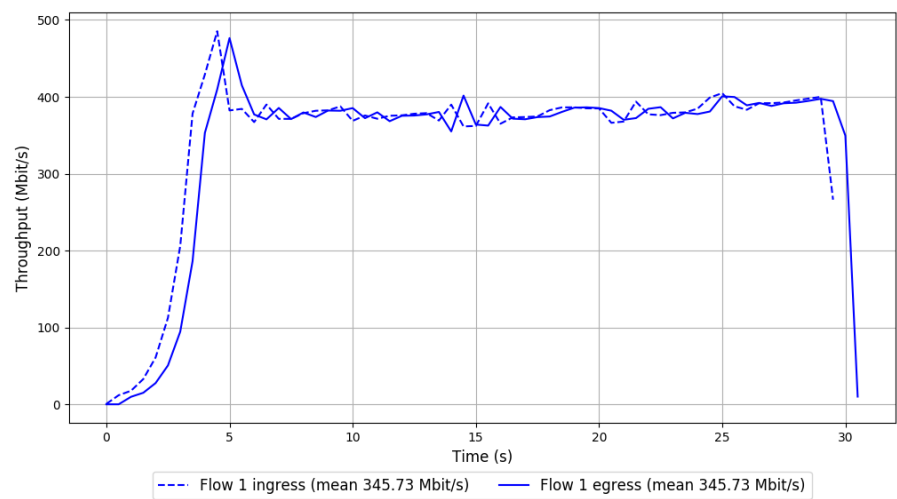


Run 6: Statistics of PCC-Expr

Start at: 2018-05-24 01:24:38
End at: 2018-05-24 01:25:08
Local clock offset: -17.943 ms
Remote clock offset: 10.999 ms

Below is generated by plot.py at 2018-05-24 03:53:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 345.73 Mbit/s
95th percentile per-packet one-way delay: 116.314 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 345.73 Mbit/s
95th percentile per-packet one-way delay: 116.314 ms
Loss rate: 0.00%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-05-24 01:45:26

End at: 2018-05-24 01:45:56

Local clock offset: -4.818 ms

Remote clock offset: 4.69 ms

Below is generated by plot.py at 2018-05-24 03:54:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 343.97 Mbit/s

95th percentile per-packet one-way delay: 216.396 ms

Loss rate: 1.24%

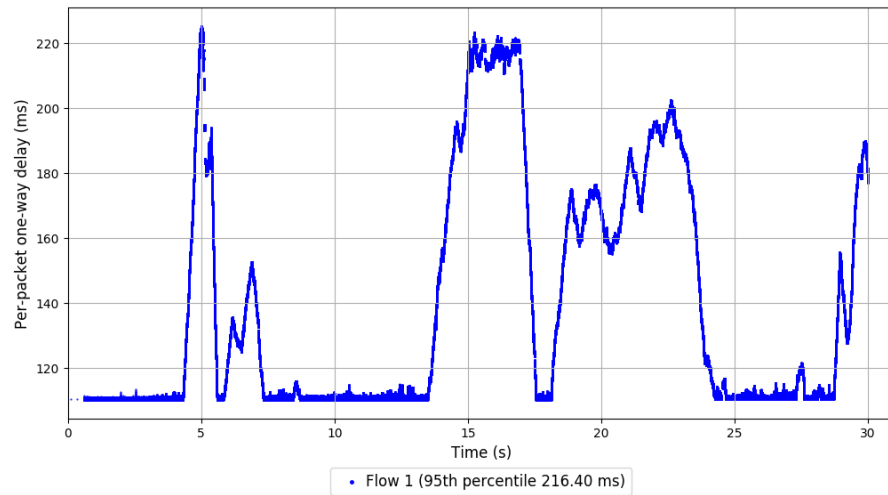
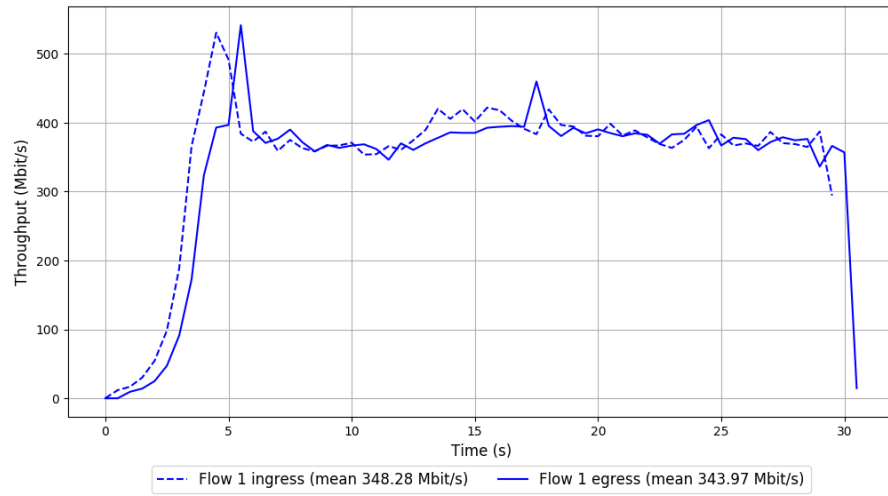
-- Flow 1:

Average throughput: 343.97 Mbit/s

95th percentile per-packet one-way delay: 216.396 ms

Loss rate: 1.24%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-05-24 02:06:32

End at: 2018-05-24 02:07:02

Local clock offset: -3.502 ms

Remote clock offset: 5.508 ms

Below is generated by plot.py at 2018-05-24 03:54:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 270.03 Mbit/s

95th percentile per-packet one-way delay: 117.957 ms

Loss rate: 0.00%

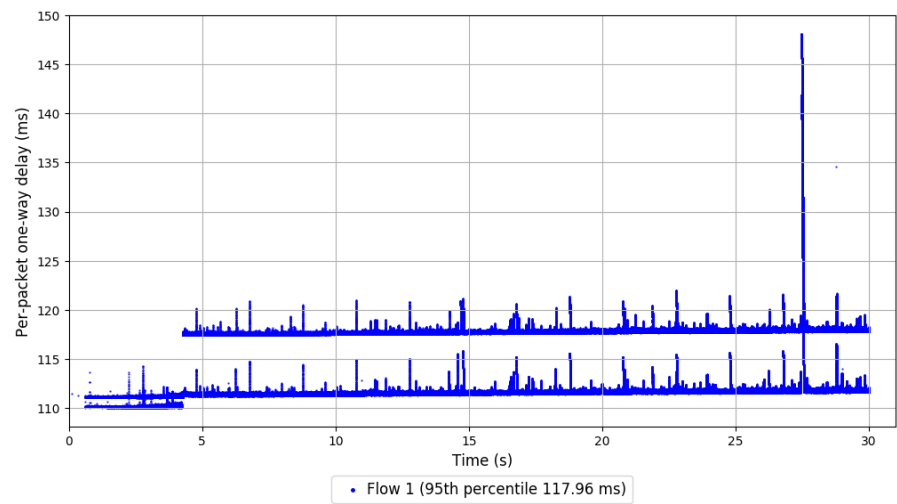
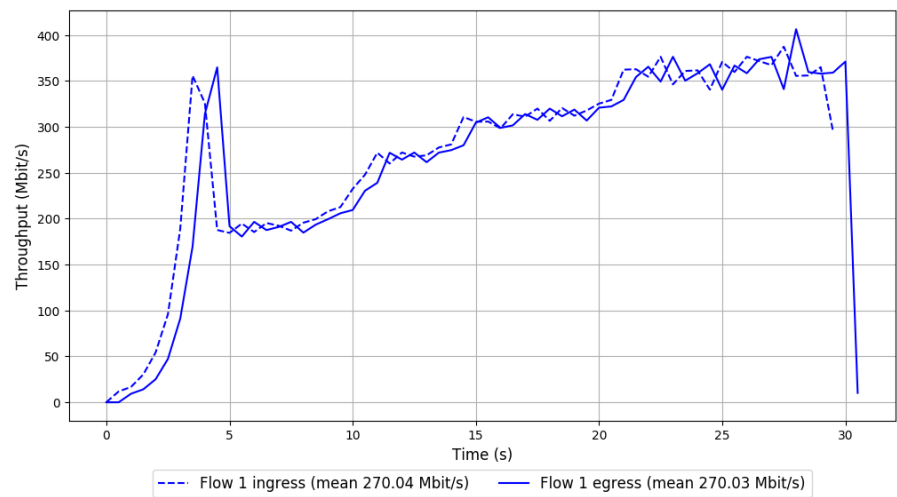
-- Flow 1:

Average throughput: 270.03 Mbit/s

95th percentile per-packet one-way delay: 117.957 ms

Loss rate: 0.00%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-05-24 02:27:19

End at: 2018-05-24 02:27:49

Local clock offset: -1.987 ms

Remote clock offset: 1.827 ms

Below is generated by plot.py at 2018-05-24 03:58:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 344.53 Mbit/s

95th percentile per-packet one-way delay: 117.987 ms

Loss rate: 0.04%

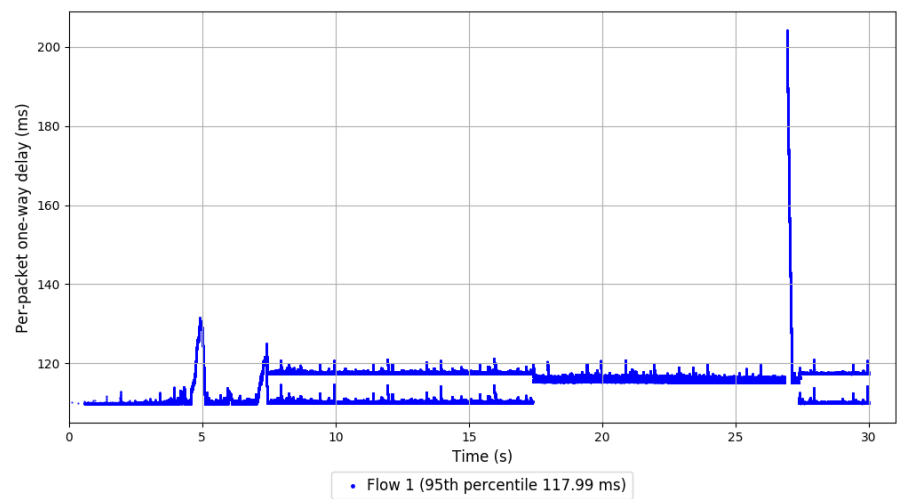
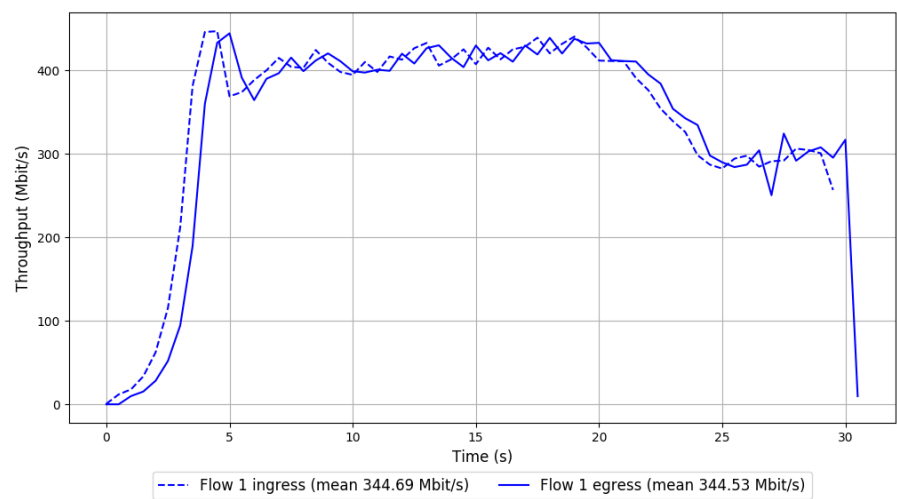
-- Flow 1:

Average throughput: 344.53 Mbit/s

95th percentile per-packet one-way delay: 117.987 ms

Loss rate: 0.04%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-05-24 02:47:38

End at: 2018-05-24 02:48:08

Local clock offset: -1.16 ms

Remote clock offset: 1.235 ms

Below is generated by plot.py at 2018-05-24 03:59:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 352.46 Mbit/s

95th percentile per-packet one-way delay: 157.011 ms

Loss rate: 0.84%

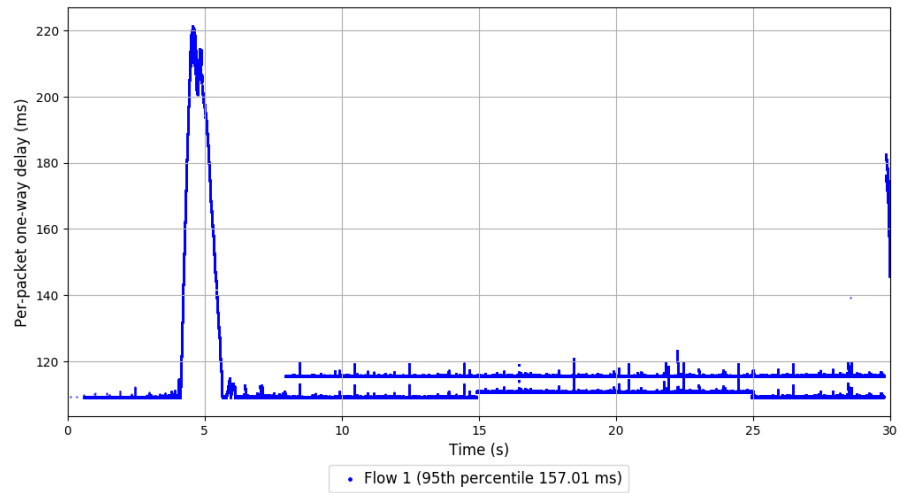
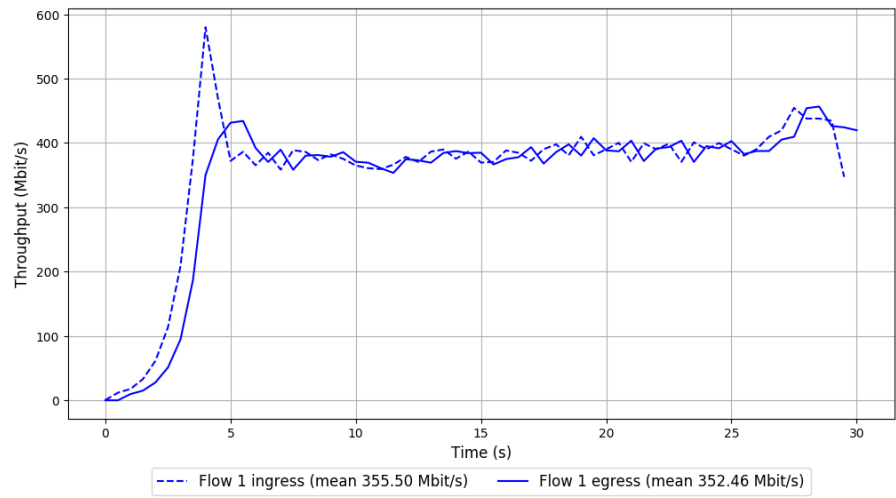
-- Flow 1:

Average throughput: 352.46 Mbit/s

95th percentile per-packet one-way delay: 157.011 ms

Loss rate: 0.84%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

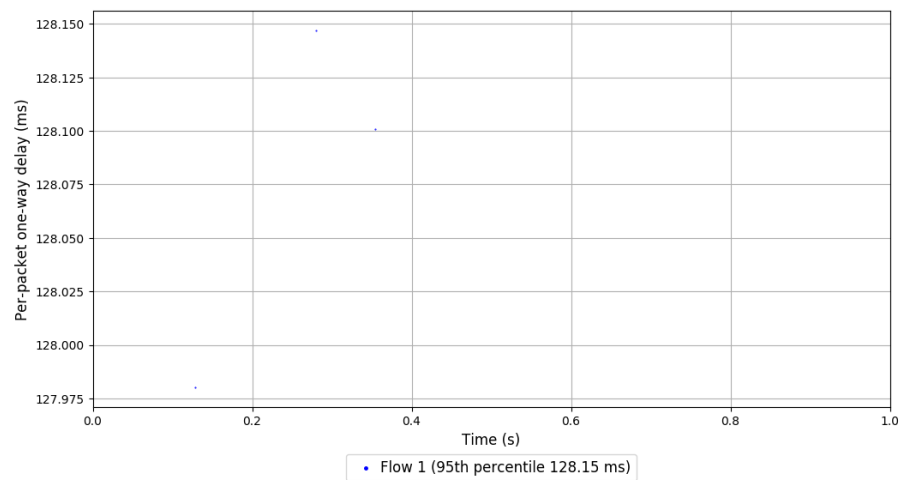
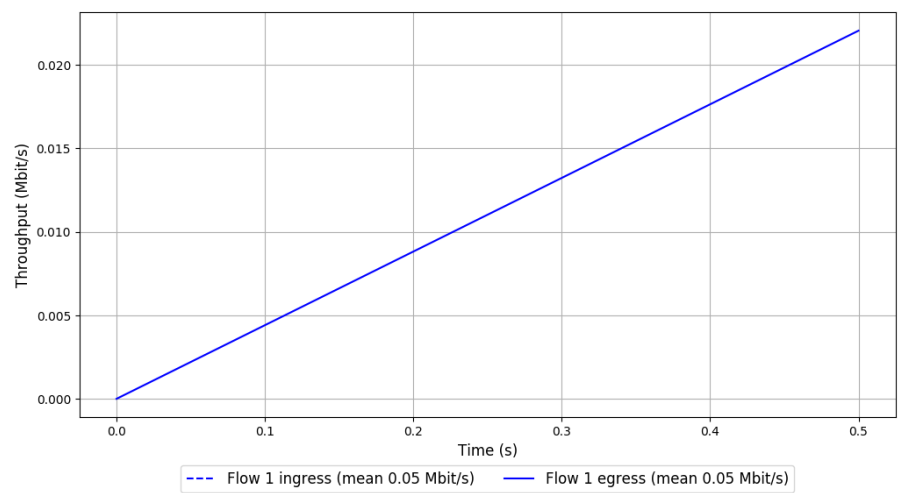
Start at: 2018-05-23 23:37:33

End at: 2018-05-23 23:38:03

Local clock offset: -22.989 ms

Remote clock offset: 60.508 ms

Run 1: Report of QUIC Cubic — Data Link

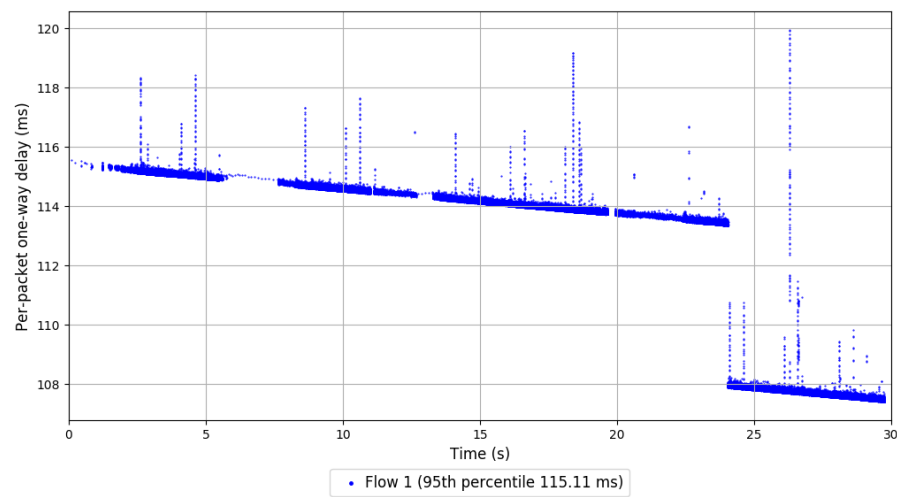
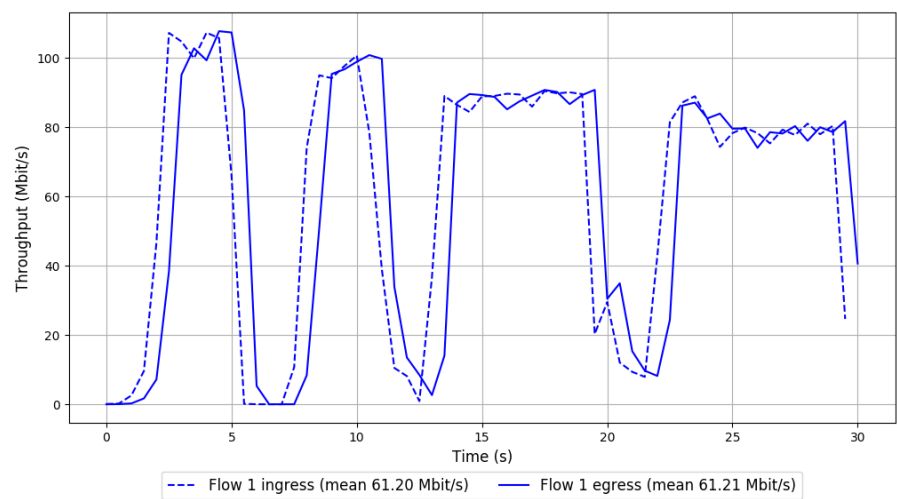


Run 2: Statistics of QUIC Cubic

Start at: 2018-05-23 23:57:52
End at: 2018-05-23 23:58:22
Local clock offset: -39.027 ms
Remote clock offset: 37.212 ms

Below is generated by plot.py at 2018-05-24 03:59:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 61.21 Mbit/s
95th percentile per-packet one-way delay: 115.113 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.21 Mbit/s
95th percentile per-packet one-way delay: 115.113 ms
Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link

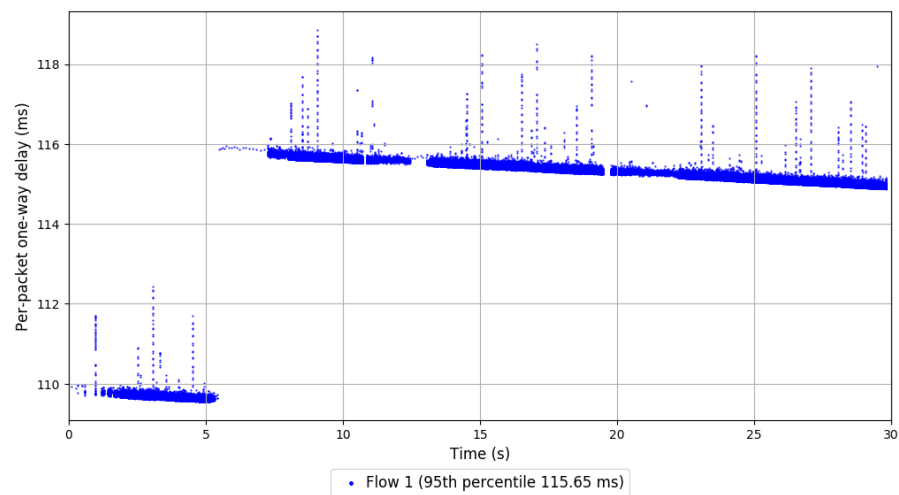
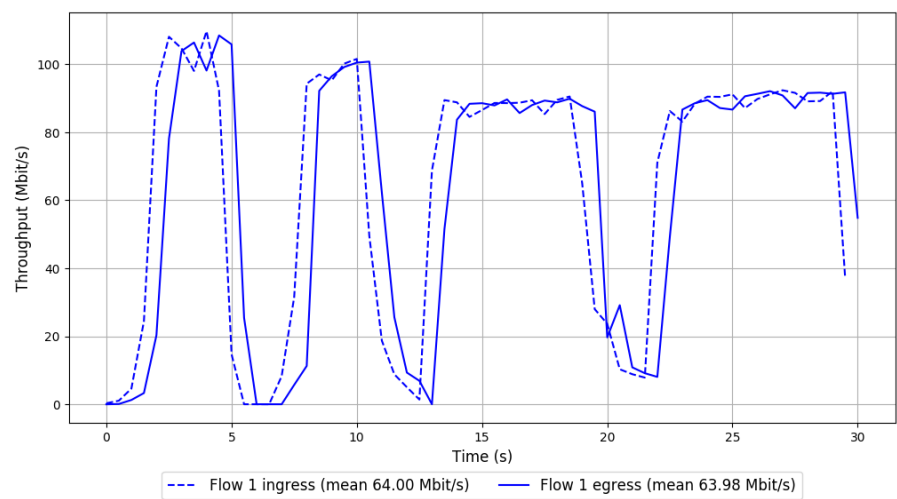


Run 3: Statistics of QUIC Cubic

Start at: 2018-05-24 00:18:08
End at: 2018-05-24 00:18:38
Local clock offset: -24.555 ms
Remote clock offset: 26.076 ms

Below is generated by plot.py at 2018-05-24 03:59:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 63.98 Mbit/s
95th percentile per-packet one-way delay: 115.653 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 63.98 Mbit/s
95th percentile per-packet one-way delay: 115.653 ms
Loss rate: 0.04%

Run 3: Report of QUIC Cubic — Data Link

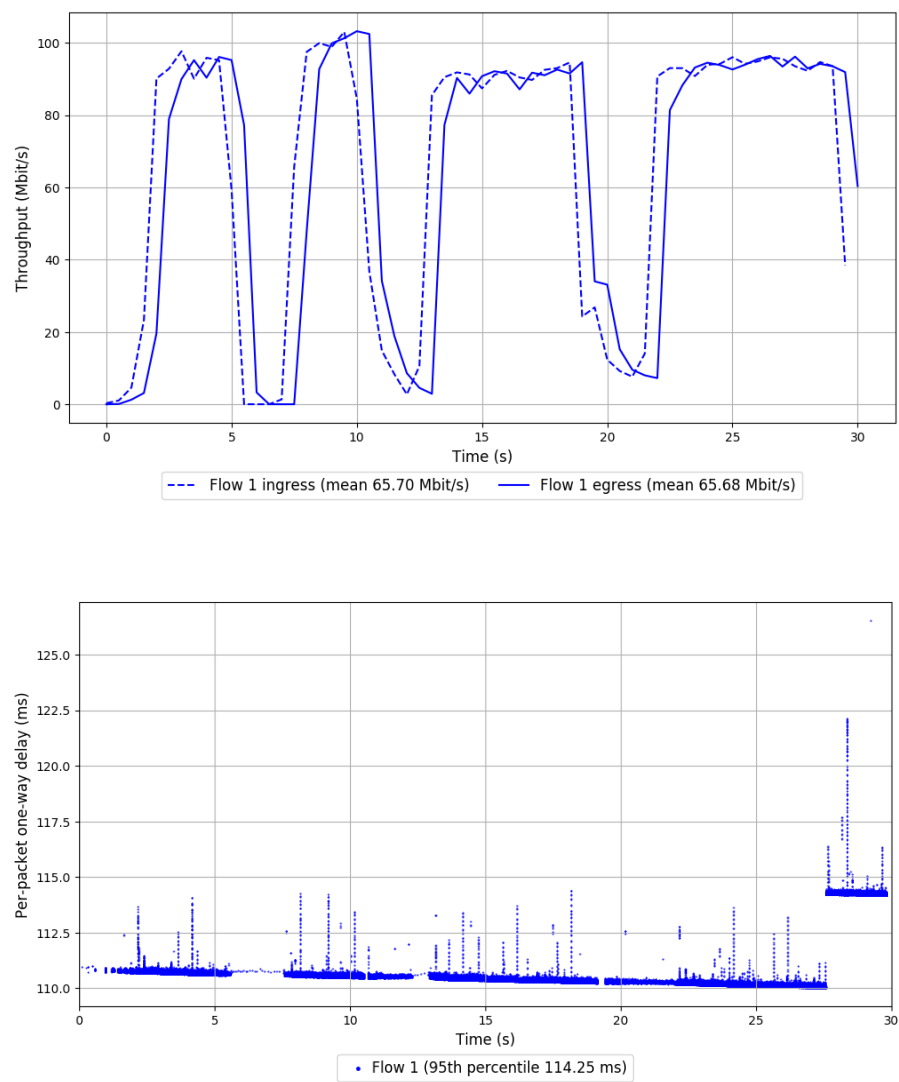


Run 4: Statistics of QUIC Cubic

Start at: 2018-05-24 00:38:38
End at: 2018-05-24 00:39:08
Local clock offset: -24.037 ms
Remote clock offset: 26.966 ms

Below is generated by plot.py at 2018-05-24 03:59:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 65.68 Mbit/s
95th percentile per-packet one-way delay: 114.248 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 65.68 Mbit/s
95th percentile per-packet one-way delay: 114.248 ms
Loss rate: 0.03%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-05-24 00:59:08

End at: 2018-05-24 00:59:38

Local clock offset: -25.74 ms

Remote clock offset: 46.18 ms

Below is generated by plot.py at 2018-05-24 03:59:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.14 Mbit/s

95th percentile per-packet one-way delay: 115.910 ms

Loss rate: 0.00%

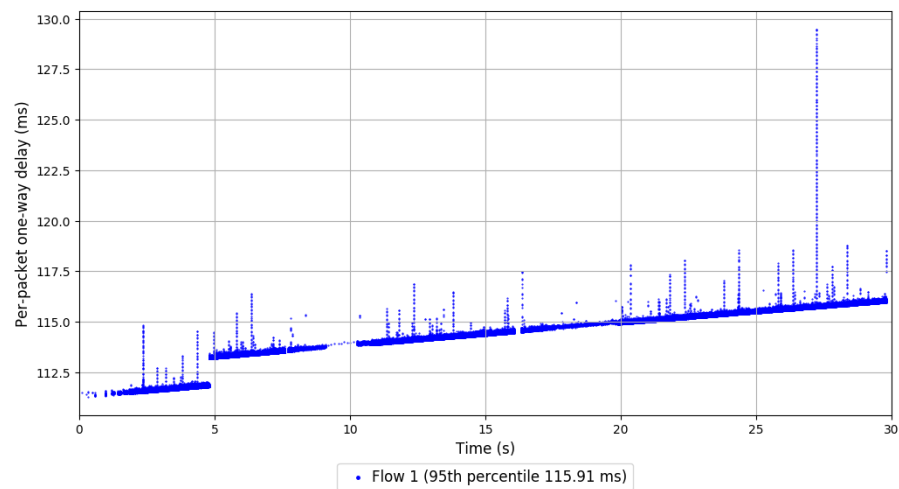
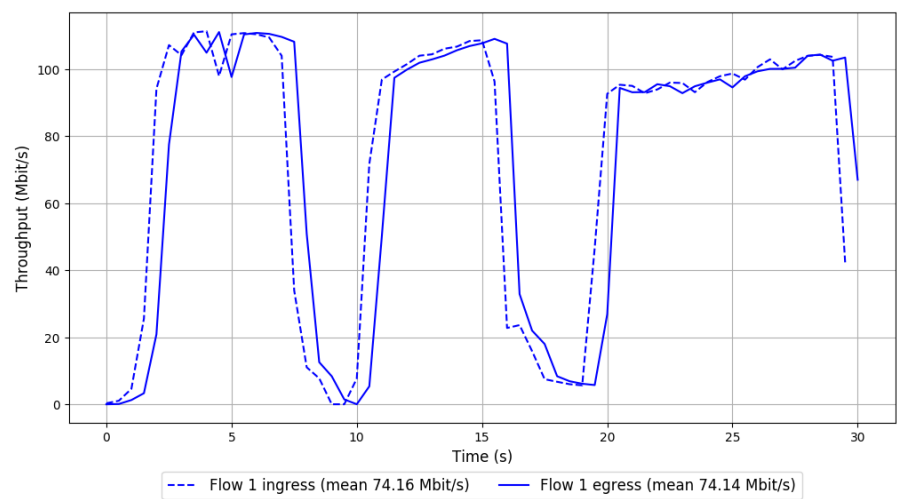
-- Flow 1:

Average throughput: 74.14 Mbit/s

95th percentile per-packet one-way delay: 115.910 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

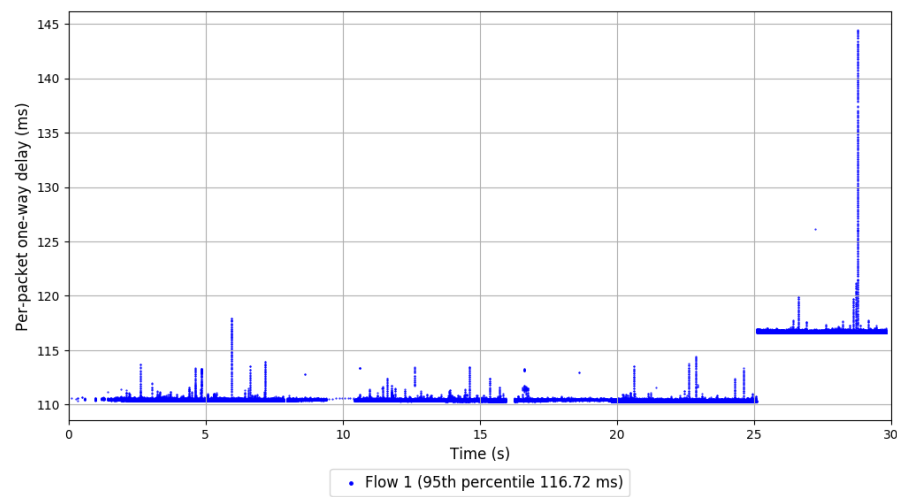
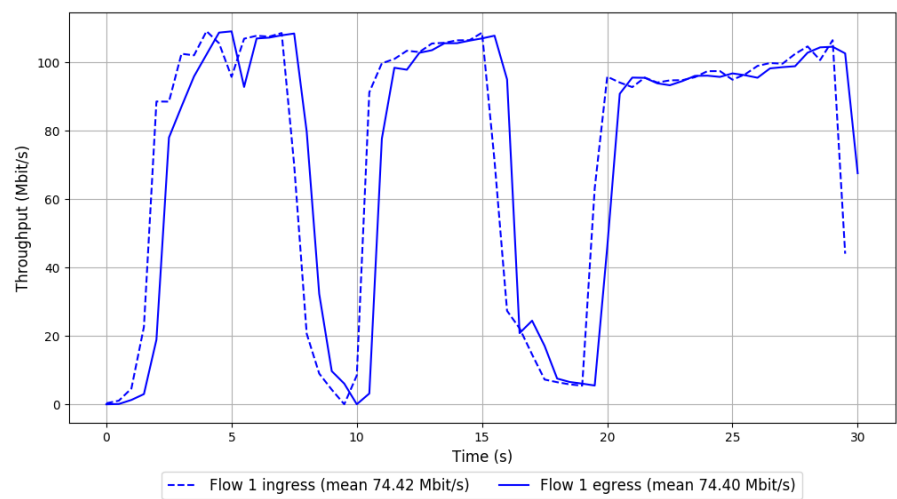


Run 6: Statistics of QUIC Cubic

Start at: 2018-05-24 01:19:58
End at: 2018-05-24 01:20:28
Local clock offset: -16.435 ms
Remote clock offset: 11.499 ms

Below is generated by plot.py at 2018-05-24 03:59:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 74.40 Mbit/s
95th percentile per-packet one-way delay: 116.723 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 74.40 Mbit/s
95th percentile per-packet one-way delay: 116.723 ms
Loss rate: 0.03%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-05-24 01:40:46

End at: 2018-05-24 01:41:16

Local clock offset: -6.167 ms

Remote clock offset: 5.988 ms

Below is generated by plot.py at 2018-05-24 03:59:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.37 Mbit/s

95th percentile per-packet one-way delay: 110.817 ms

Loss rate: 0.00%

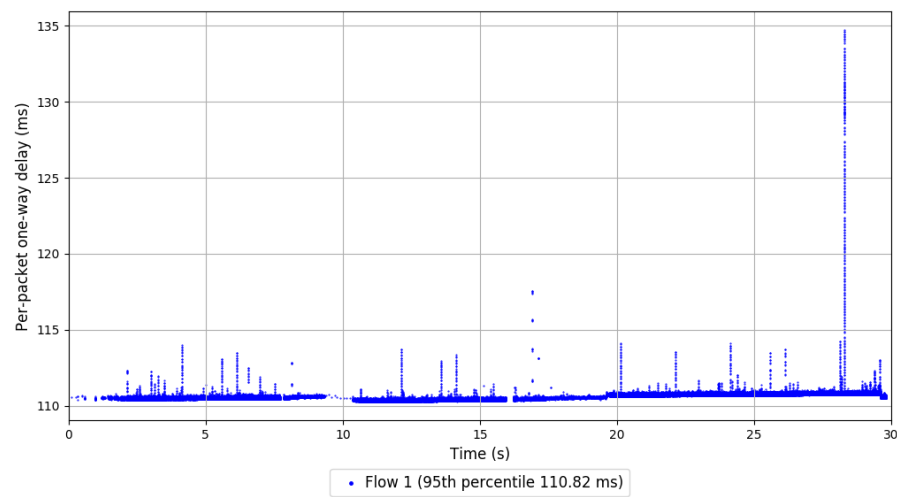
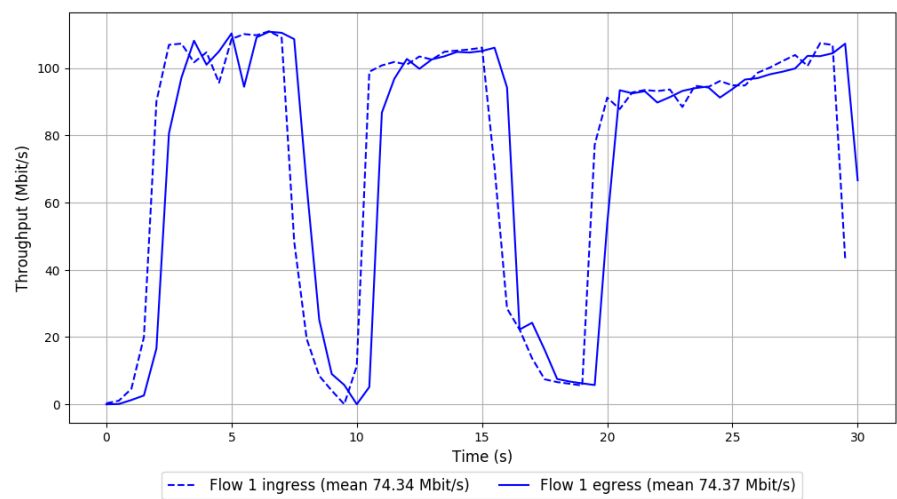
-- Flow 1:

Average throughput: 74.37 Mbit/s

95th percentile per-packet one-way delay: 110.817 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-05-24 02:01:52

End at: 2018-05-24 02:02:22

Local clock offset: -4.651 ms

Remote clock offset: 4.922 ms

Below is generated by plot.py at 2018-05-24 03:59:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.05 Mbit/s

95th percentile per-packet one-way delay: 110.428 ms

Loss rate: 0.00%

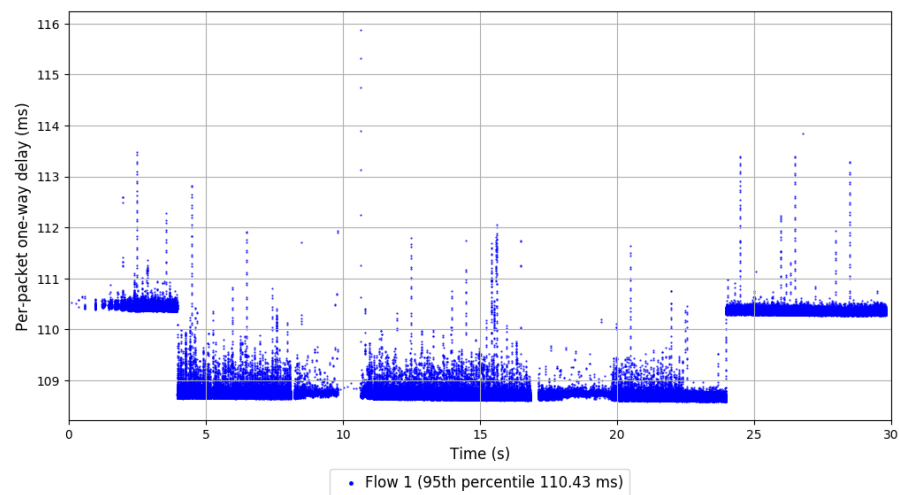
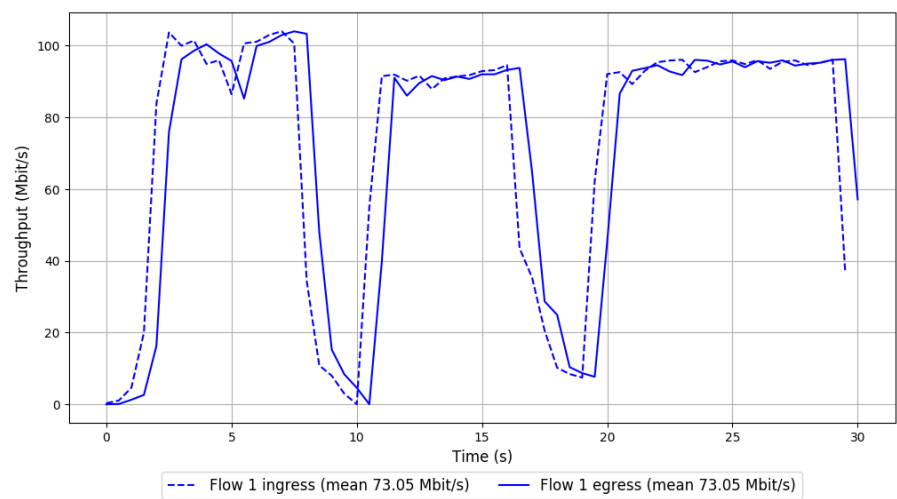
-- Flow 1:

Average throughput: 73.05 Mbit/s

95th percentile per-packet one-way delay: 110.428 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-05-24 02:22:40

End at: 2018-05-24 02:23:10

Local clock offset: -1.516 ms

Remote clock offset: 1.881 ms

Below is generated by plot.py at 2018-05-24 03:59:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.87 Mbit/s

95th percentile per-packet one-way delay: 117.018 ms

Loss rate: 0.00%

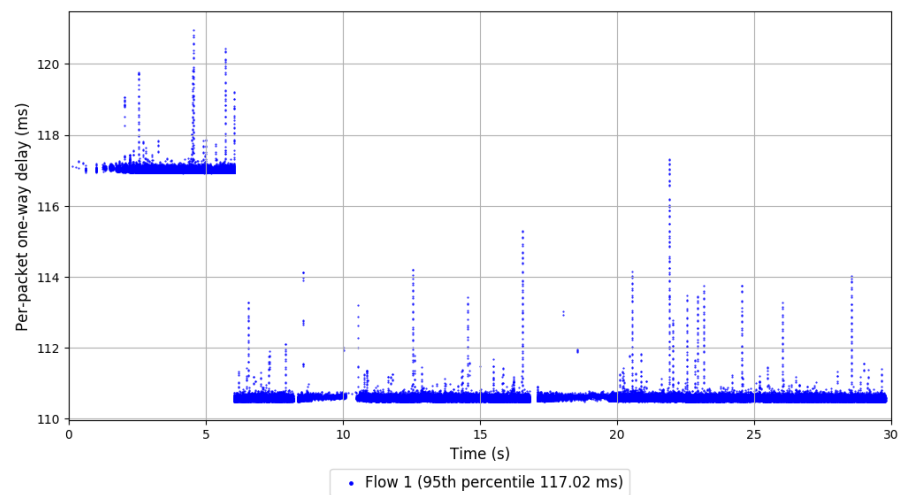
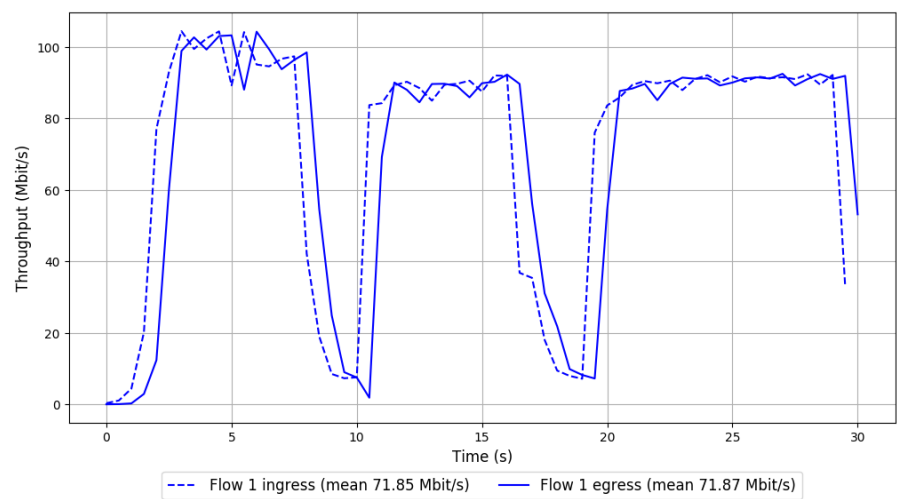
-- Flow 1:

Average throughput: 71.87 Mbit/s

95th percentile per-packet one-way delay: 117.018 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-05-24 02:42:58

End at: 2018-05-24 02:43:28

Local clock offset: -0.906 ms

Remote clock offset: 1.968 ms

Below is generated by plot.py at 2018-05-24 03:59:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.09 Mbit/s

95th percentile per-packet one-way delay: 109.740 ms

Loss rate: 0.00%

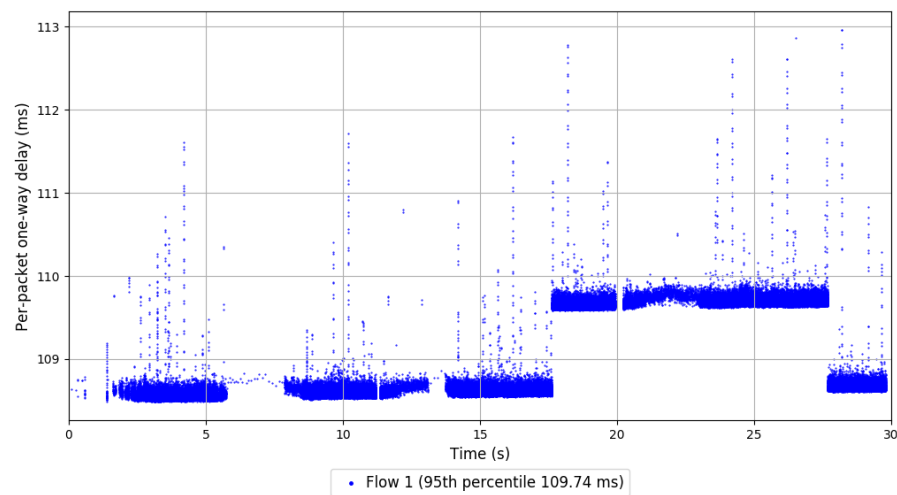
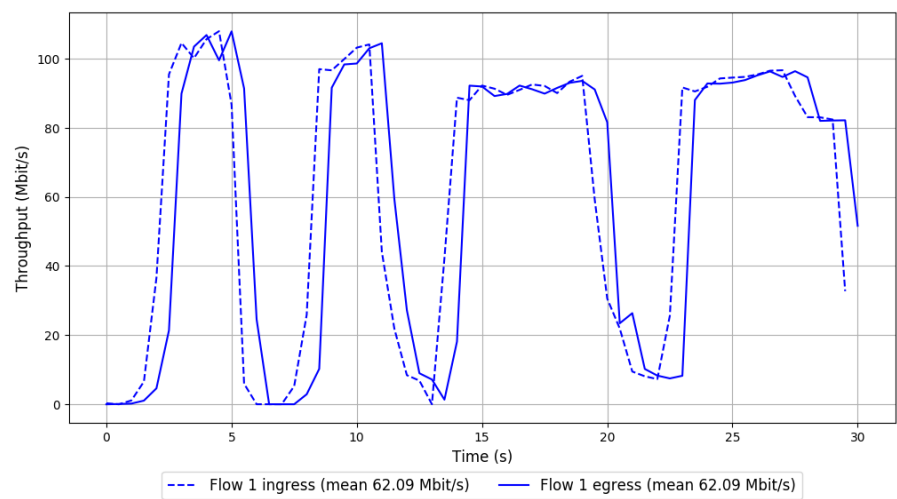
-- Flow 1:

Average throughput: 62.09 Mbit/s

95th percentile per-packet one-way delay: 109.740 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

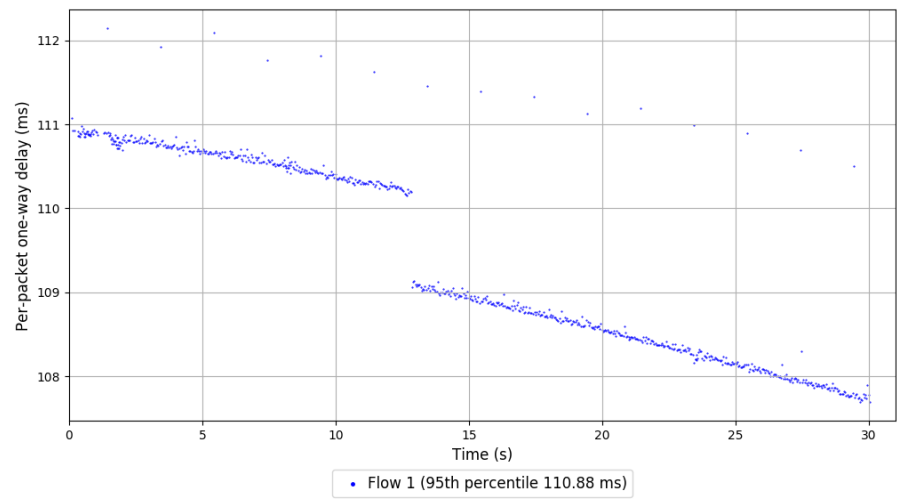
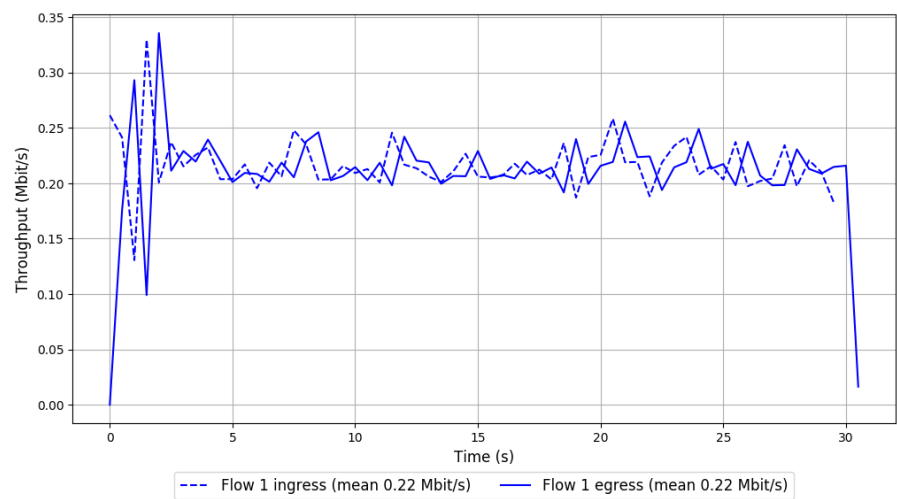


```
Run 1: Statistics of SCReAM

Start at: 2018-05-23 23:39:53
End at: 2018-05-23 23:40:23
Local clock offset: -18.059 ms
Remote clock offset: 23.517 ms

# Below is generated by plot.py at 2018-05-24 03:59:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.881 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.881 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

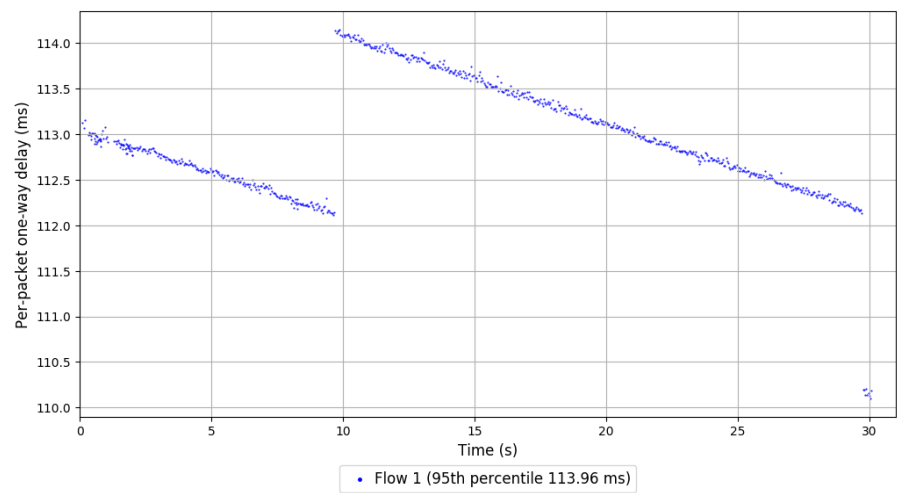
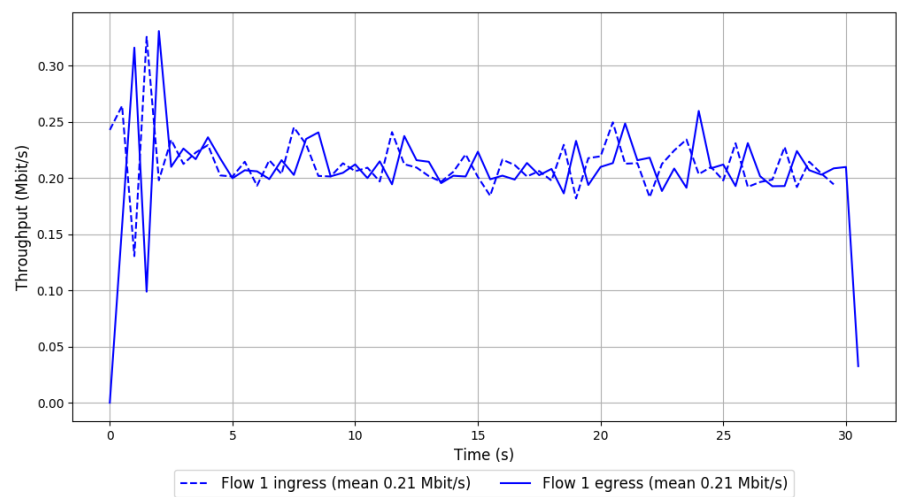


Run 2: Statistics of SCReAM

Start at: 2018-05-24 00:00:17
End at: 2018-05-24 00:00:47
Local clock offset: -45.222 ms
Remote clock offset: 42.952 ms

Below is generated by plot.py at 2018-05-24 03:59:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 113.961 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 113.961 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

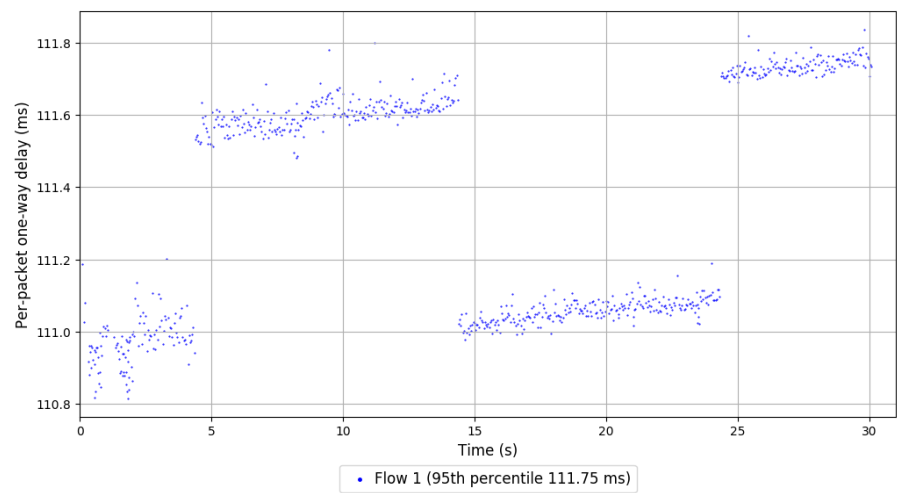
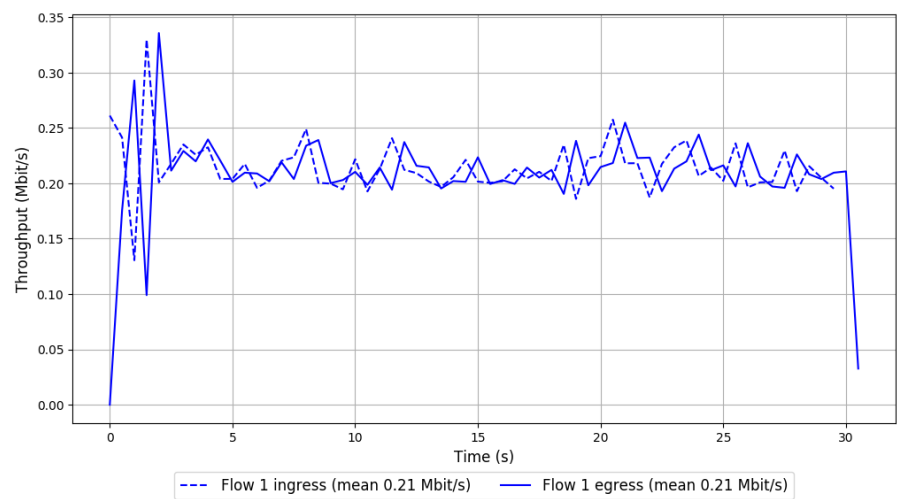


Run 3: Statistics of SCReAM

Start at: 2018-05-24 00:20:32
End at: 2018-05-24 00:21:02
Local clock offset: -27.191 ms
Remote clock offset: 28.015 ms

Below is generated by plot.py at 2018-05-24 03:59:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 111.749 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 111.749 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

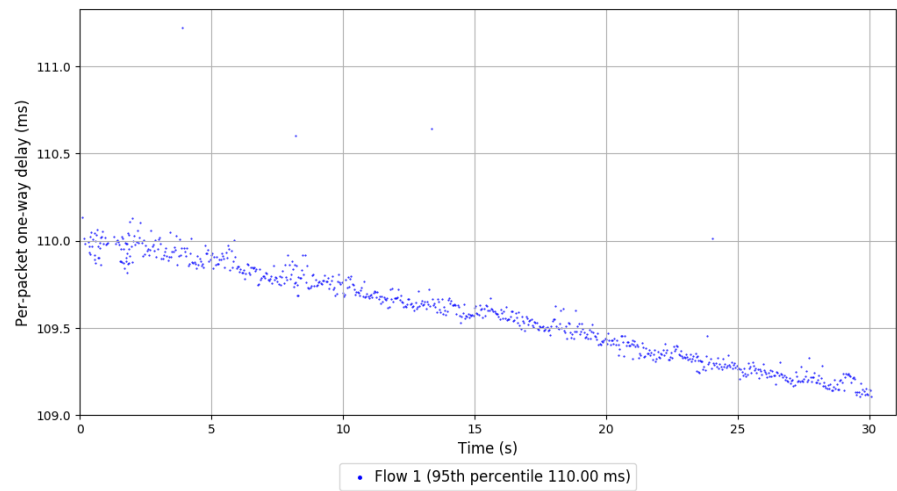
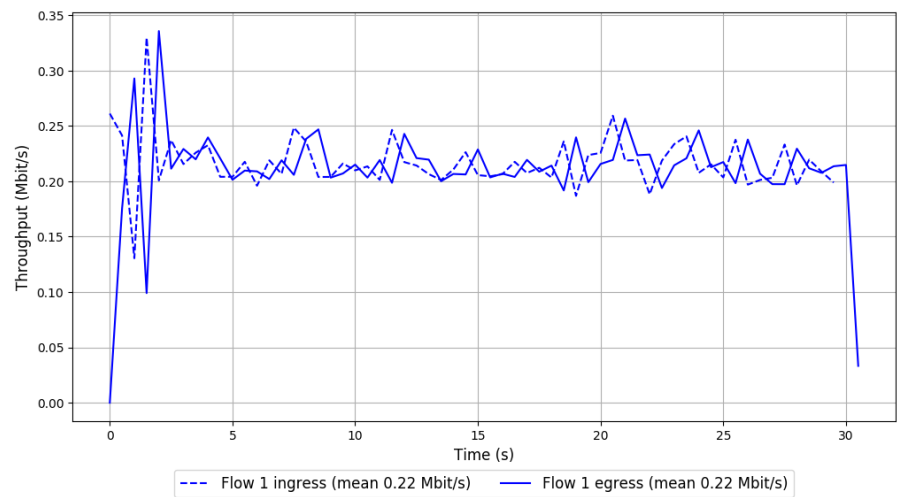


Run 4: Statistics of SCReAM

Start at: 2018-05-24 00:41:03
End at: 2018-05-24 00:41:33
Local clock offset: -26.059 ms
Remote clock offset: 28.404 ms

Below is generated by plot.py at 2018-05-24 03:59:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.000 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.000 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-05-24 01:01:34

End at: 2018-05-24 01:02:04

Local clock offset: -21.68 ms

Remote clock offset: 35.19 ms

Below is generated by plot.py at 2018-05-24 03:59:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.291 ms

Loss rate: 0.13%

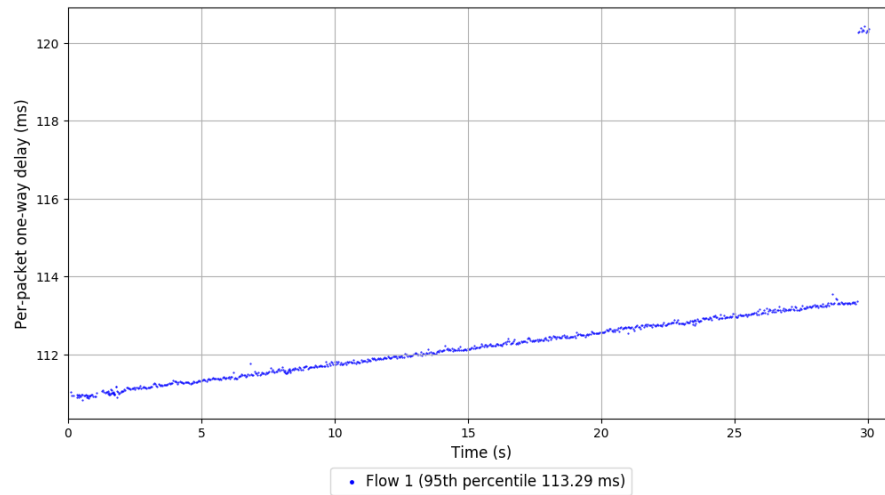
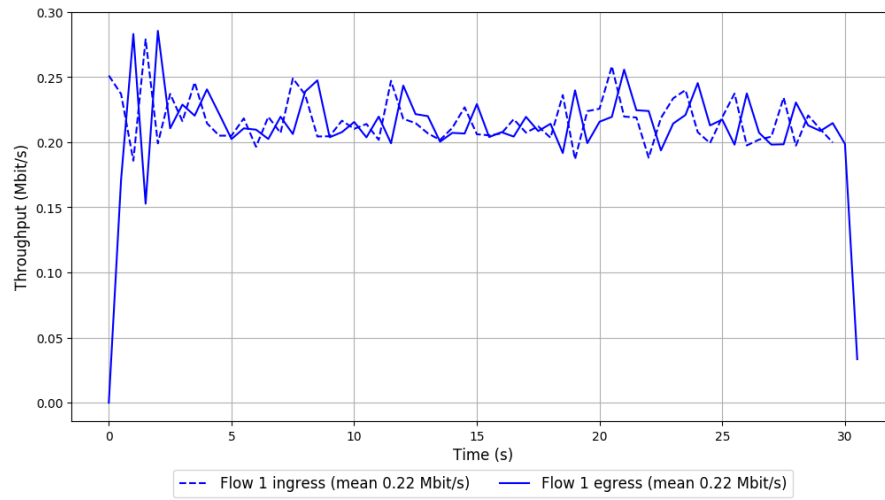
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.291 ms

Loss rate: 0.13%

Run 5: Report of SReAM — Data Link

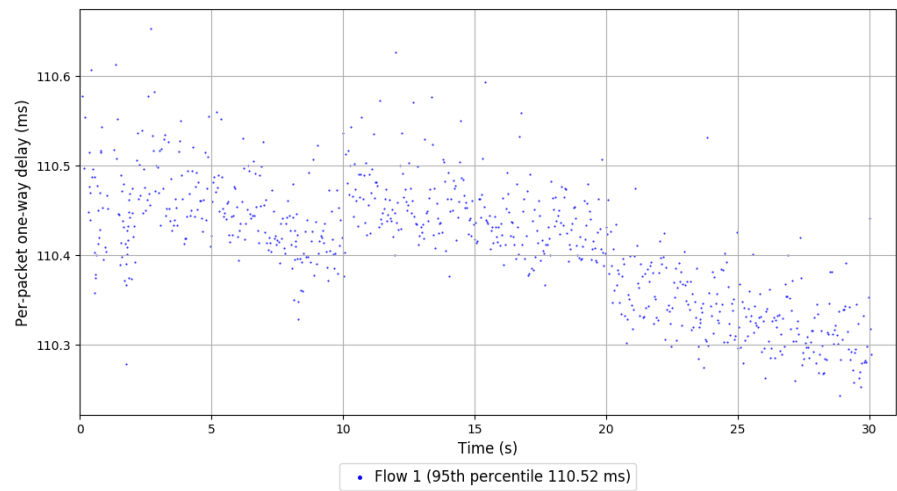
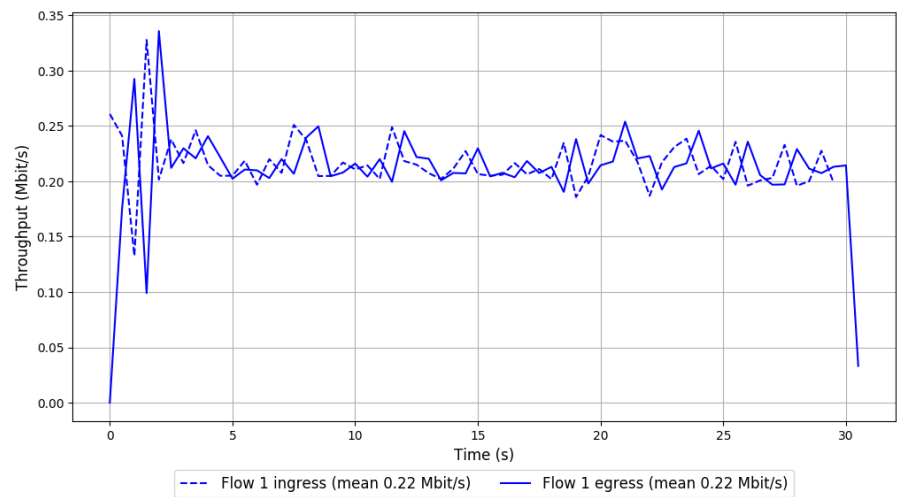


Run 6: Statistics of SCReAM

Start at: 2018-05-24 01:22:23
End at: 2018-05-24 01:22:53
Local clock offset: -17.421 ms
Remote clock offset: 10.926 ms

Below is generated by plot.py at 2018-05-24 03:59:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.521 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.521 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-05-24 01:43:12

End at: 2018-05-24 01:43:42

Local clock offset: -5.718 ms

Remote clock offset: 5.116 ms

Below is generated by plot.py at 2018-05-24 03:59:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 116.502 ms

Loss rate: 0.00%

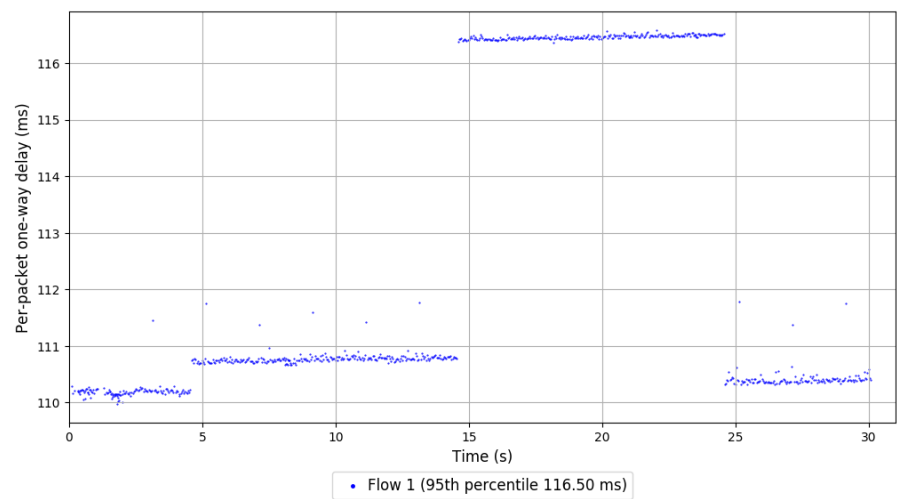
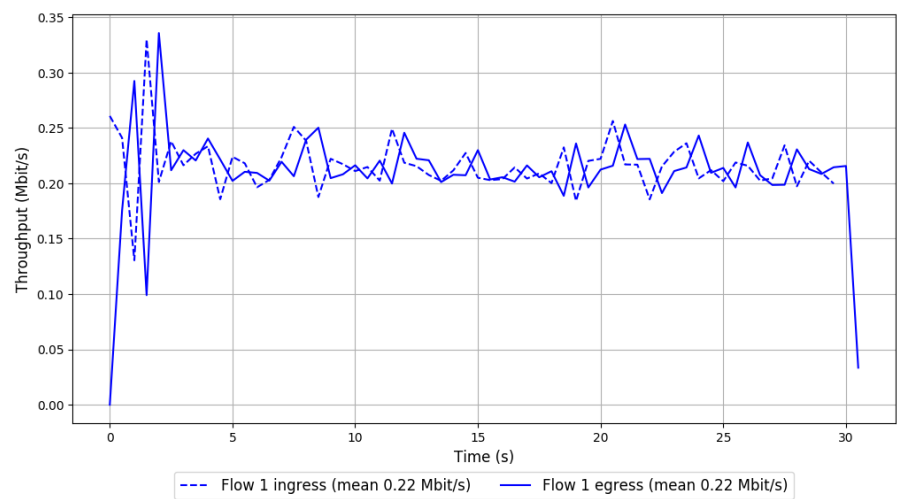
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 116.502 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-05-24 02:04:17

End at: 2018-05-24 02:04:47

Local clock offset: -4.122 ms

Remote clock offset: 5.153 ms

Below is generated by plot.py at 2018-05-24 03:59:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.985 ms

Loss rate: 0.00%

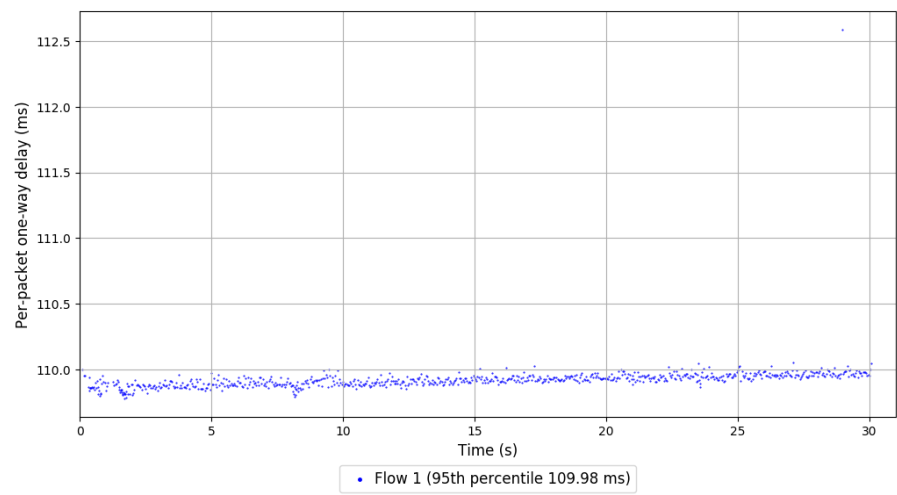
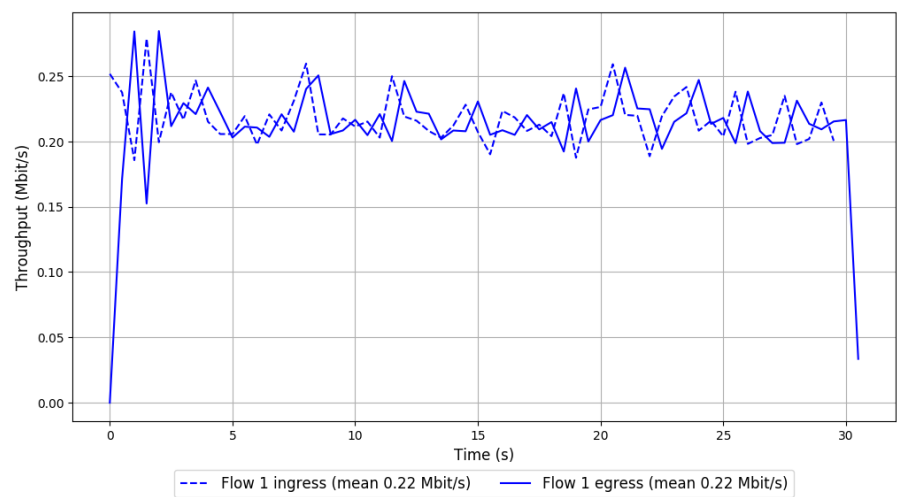
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.985 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-05-24 02:25:04

End at: 2018-05-24 02:25:34

Local clock offset: -1.321 ms

Remote clock offset: 1.834 ms

Below is generated by plot.py at 2018-05-24 03:59:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 116.202 ms

Loss rate: 0.13%

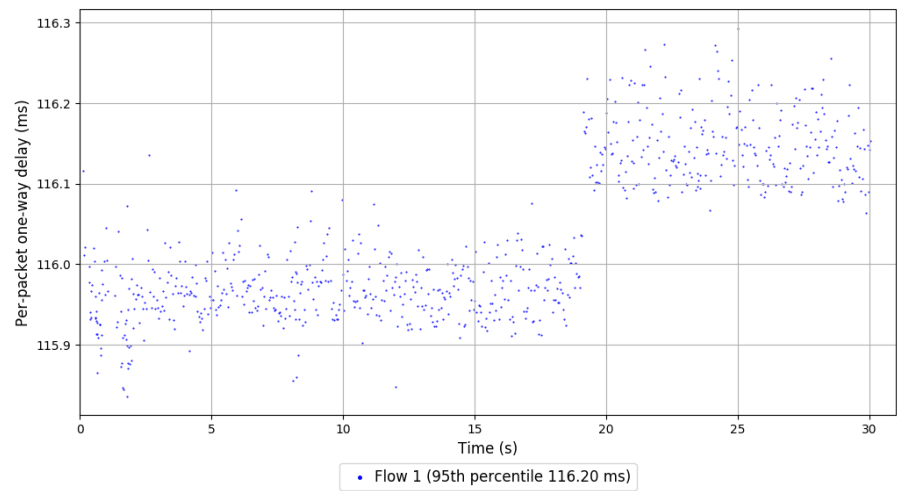
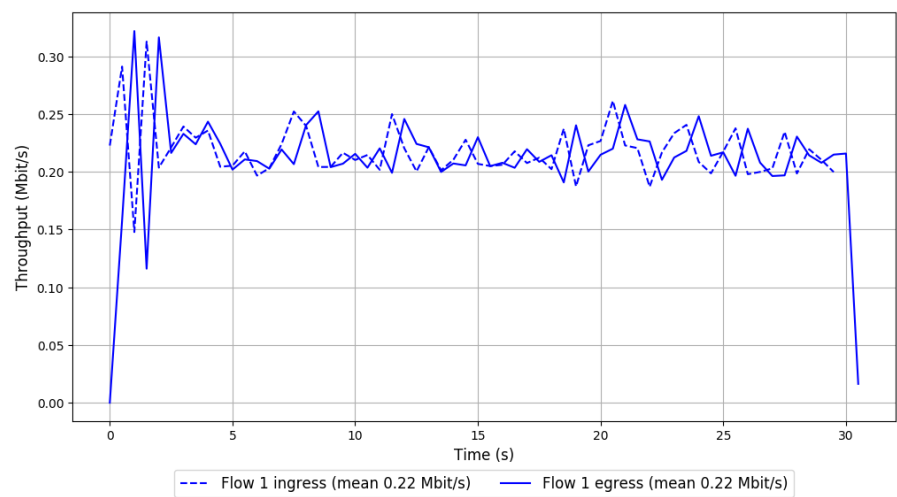
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 116.202 ms

Loss rate: 0.13%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-05-24 02:45:24

End at: 2018-05-24 02:45:54

Local clock offset: -0.93 ms

Remote clock offset: 1.161 ms

Below is generated by plot.py at 2018-05-24 03:59:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 115.464 ms

Loss rate: 0.00%

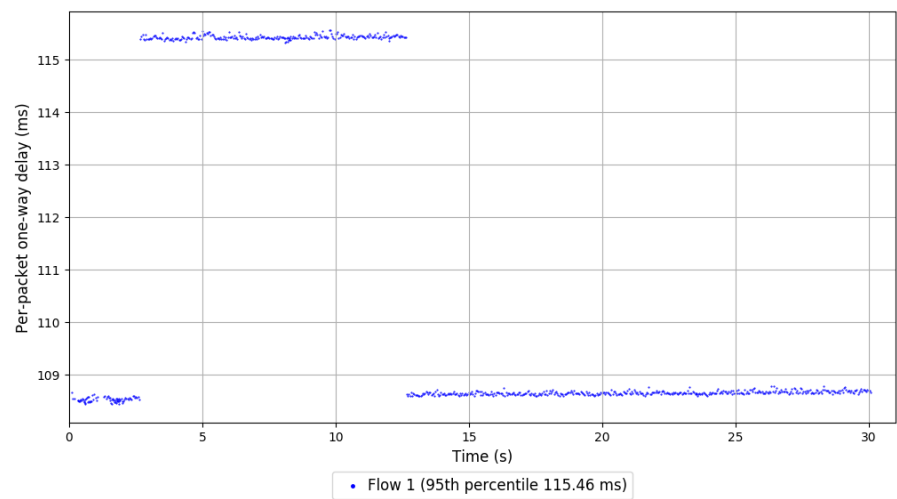
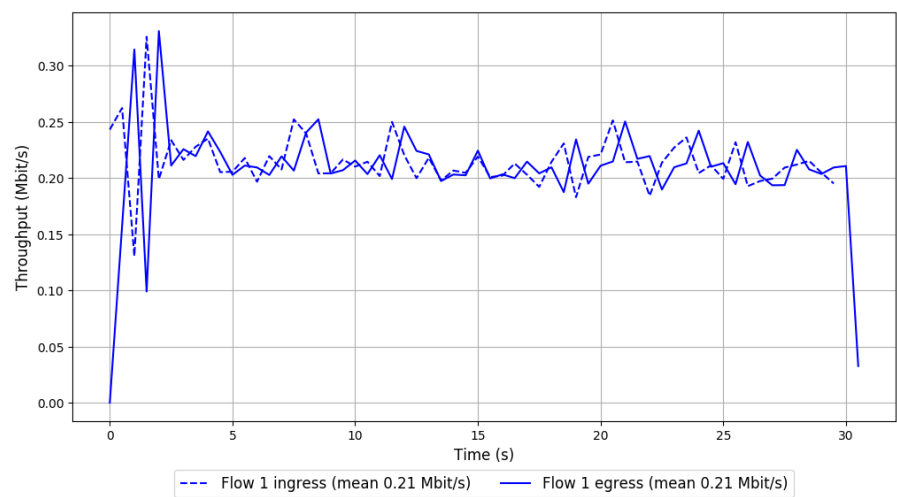
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 115.464 ms

Loss rate: 0.00%

Run 10: Report of SCRaM — Data Link

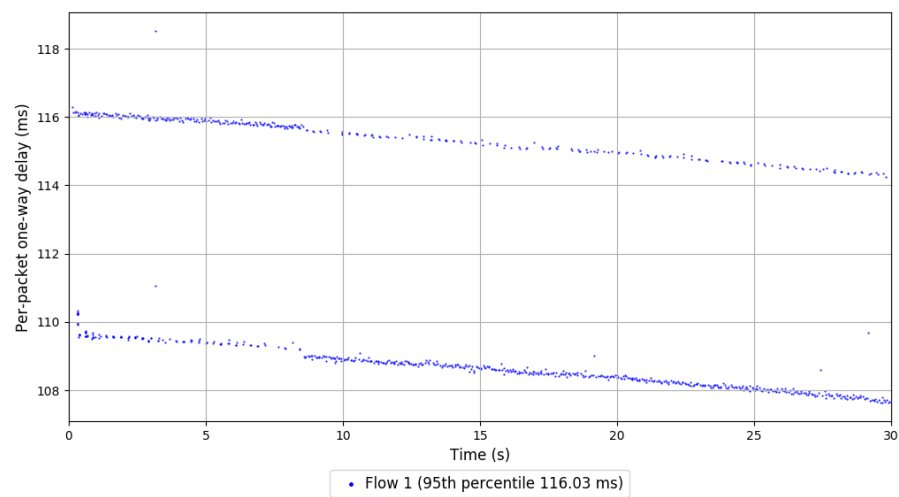
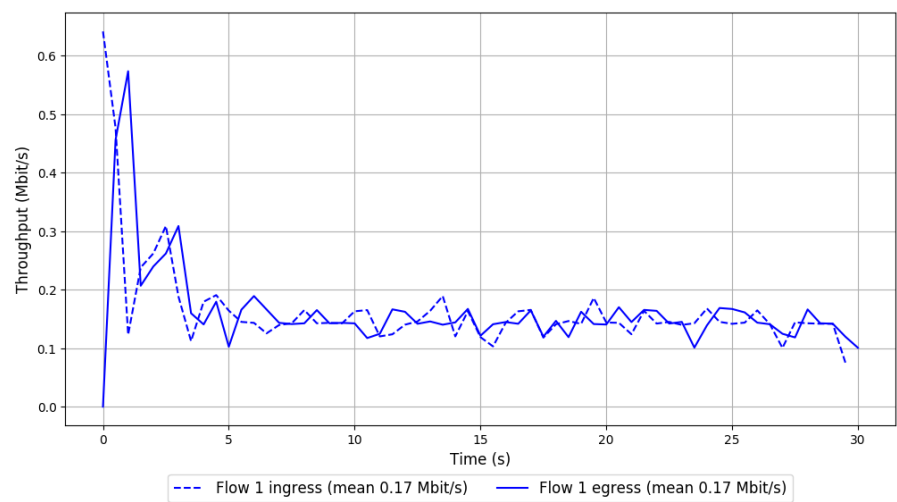


Run 1: Statistics of Sprout

Start at: 2018-05-23 23:43:28
End at: 2018-05-23 23:43:58
Local clock offset: -26.033 ms
Remote clock offset: 22.817 ms

Below is generated by plot.py at 2018-05-24 03:59:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 116.033 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 116.033 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

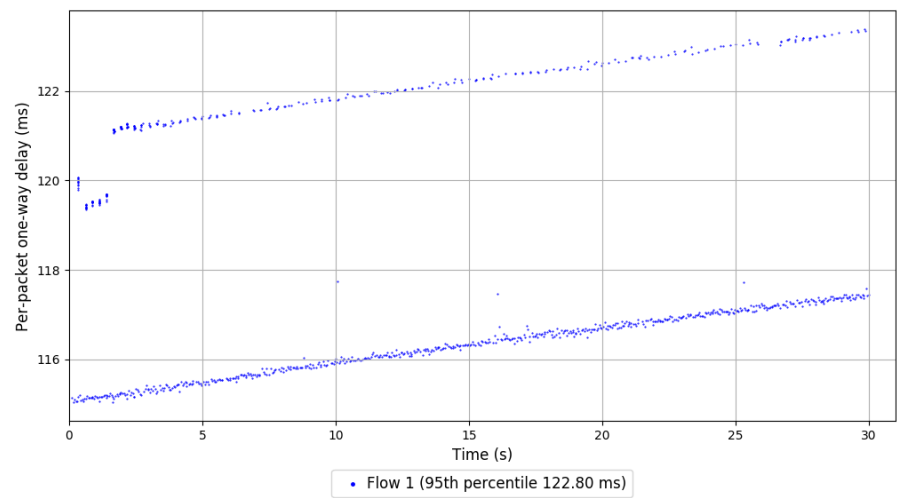
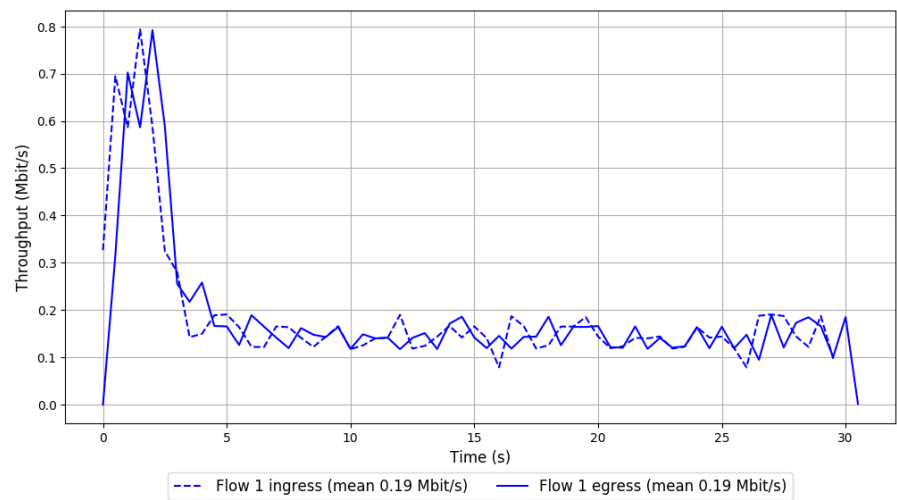


Run 2: Statistics of Sprout

Start at: 2018-05-24 00:03:45
End at: 2018-05-24 00:04:15
Local clock offset: -50.505 ms
Remote clock offset: 54.605 ms

Below is generated by plot.py at 2018-05-24 03:59:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 122.795 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 122.795 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

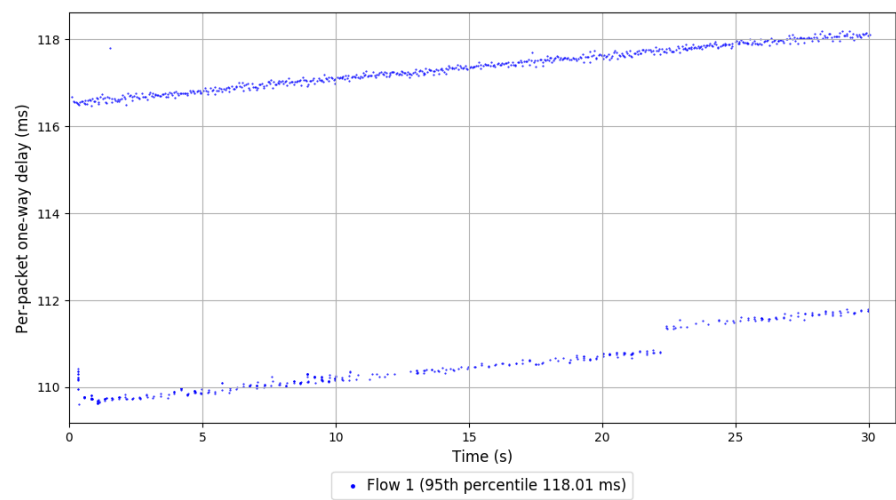
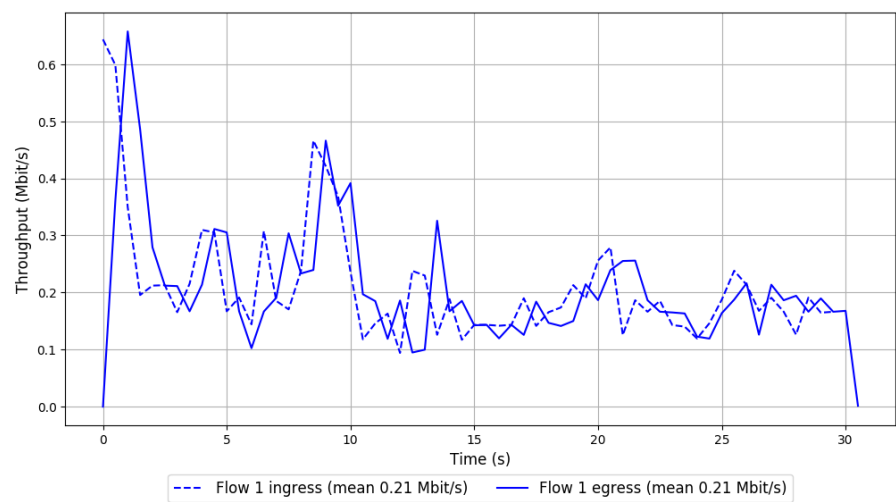


Run 3: Statistics of Sprout

Start at: 2018-05-24 00:24:14
End at: 2018-05-24 00:24:44
Local clock offset: -21.69 ms
Remote clock offset: 33.671 ms

Below is generated by plot.py at 2018-05-24 03:59:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 118.010 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 118.010 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

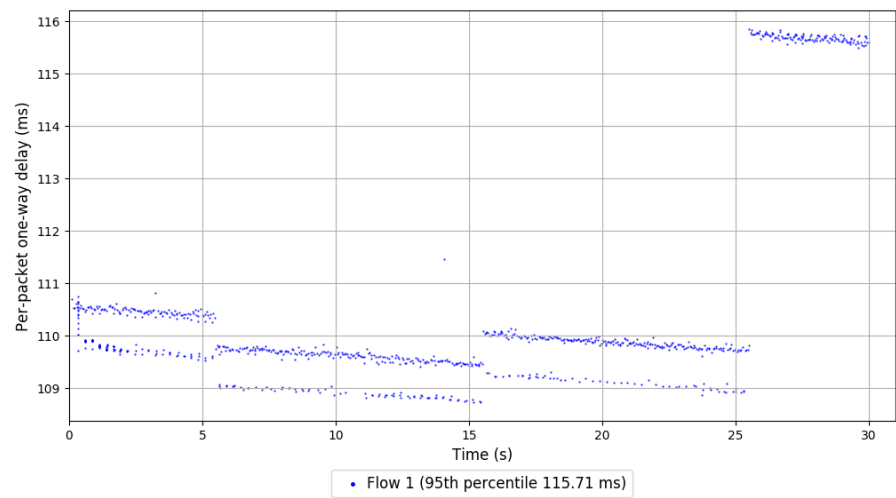
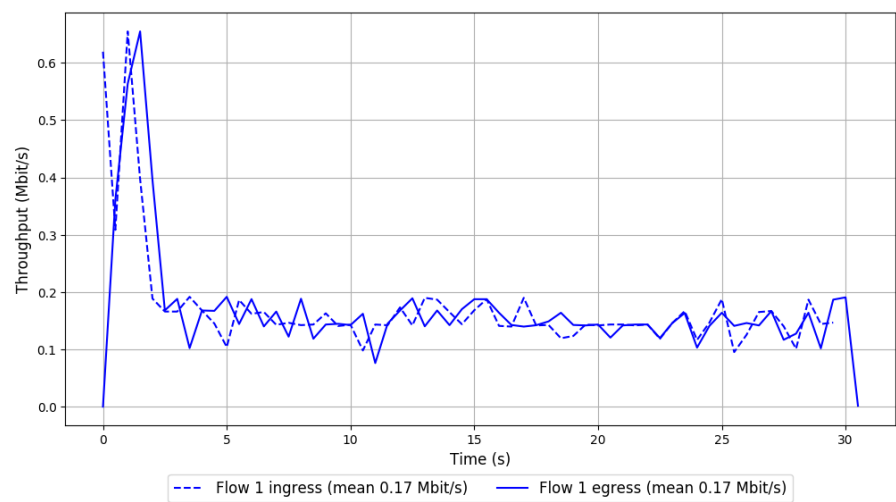


Run 4: Statistics of Sprout

Start at: 2018-05-24 00:44:31
End at: 2018-05-24 00:45:01
Local clock offset: -29.242 ms
Remote clock offset: 31.807 ms

Below is generated by plot.py at 2018-05-24 03:59:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 115.710 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 115.710 ms
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

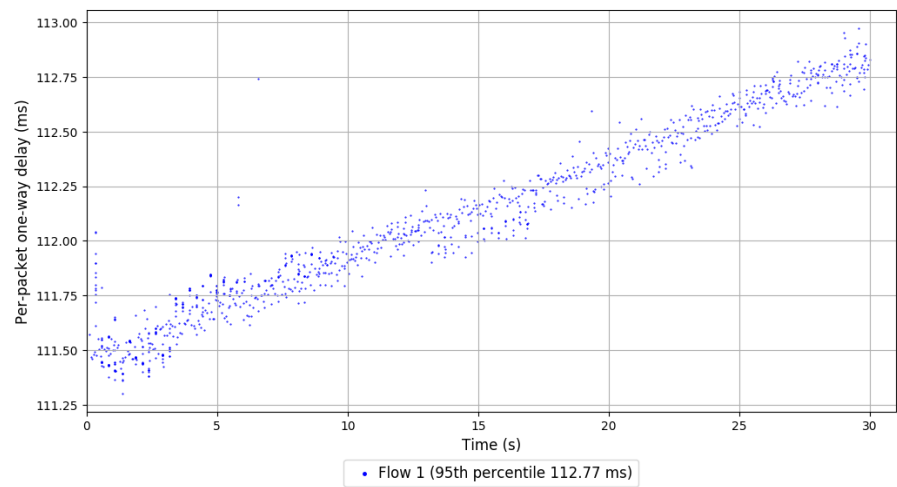
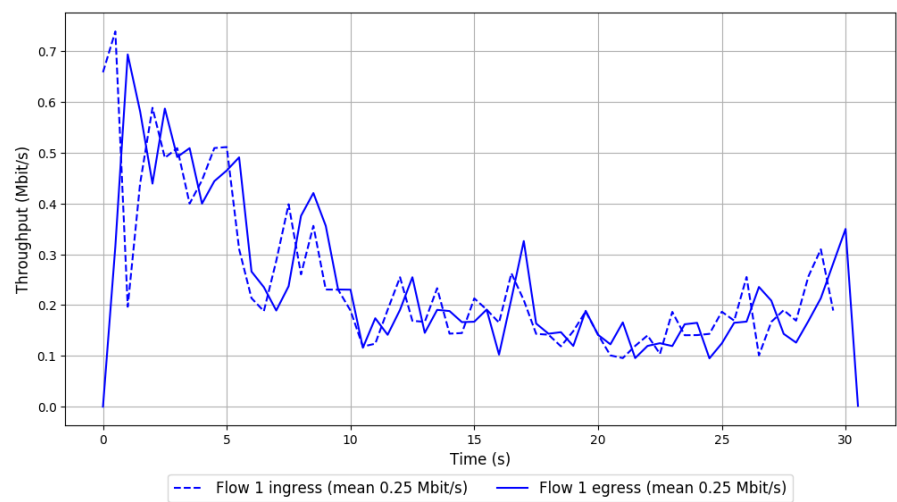


Run 5: Statistics of Sprout

Start at: 2018-05-24 01:05:23
End at: 2018-05-24 01:05:53
Local clock offset: -17.011 ms
Remote clock offset: 24.865 ms

Below is generated by plot.py at 2018-05-24 03:59:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 112.771 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 112.771 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

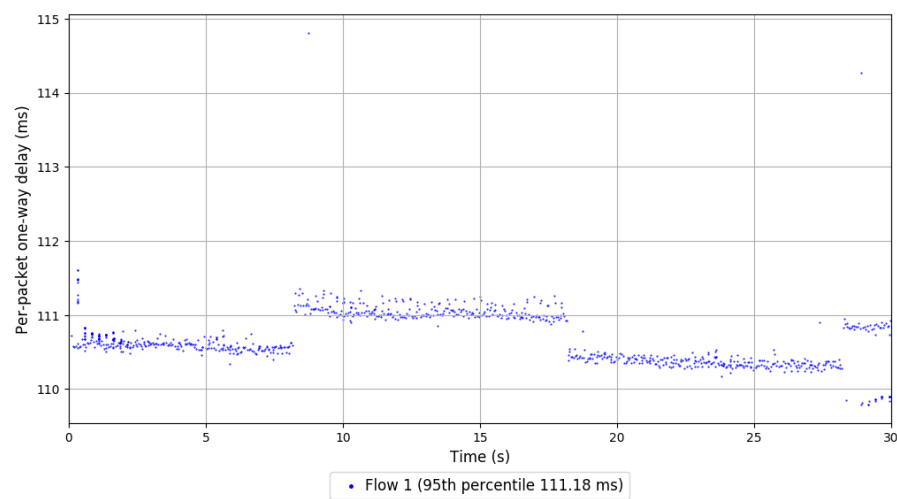
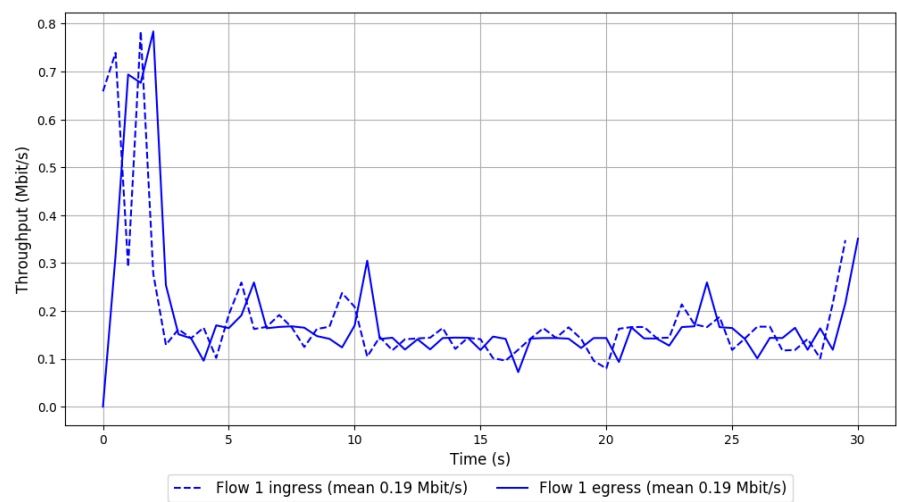


Run 6: Statistics of Sprout

Start at: 2018-05-24 01:26:18
End at: 2018-05-24 01:26:48
Local clock offset: -19.082 ms
Remote clock offset: 11.566 ms

Below is generated by plot.py at 2018-05-24 03:59:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 111.181 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 111.181 ms
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

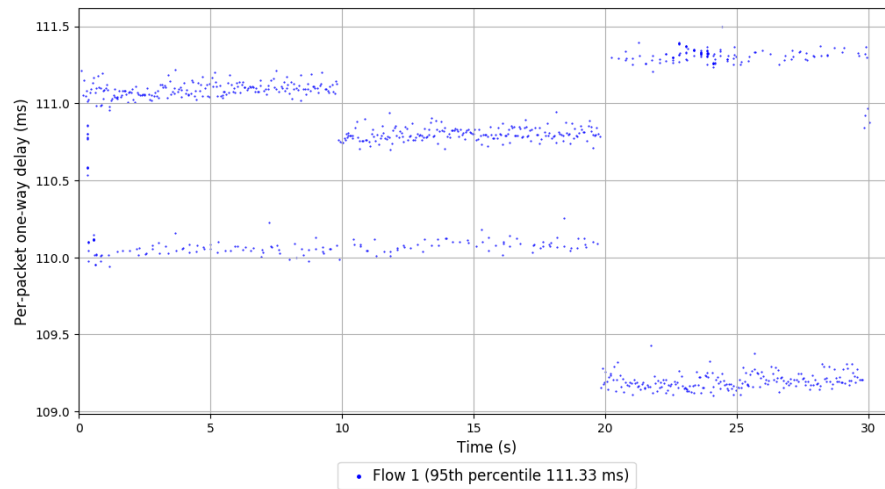
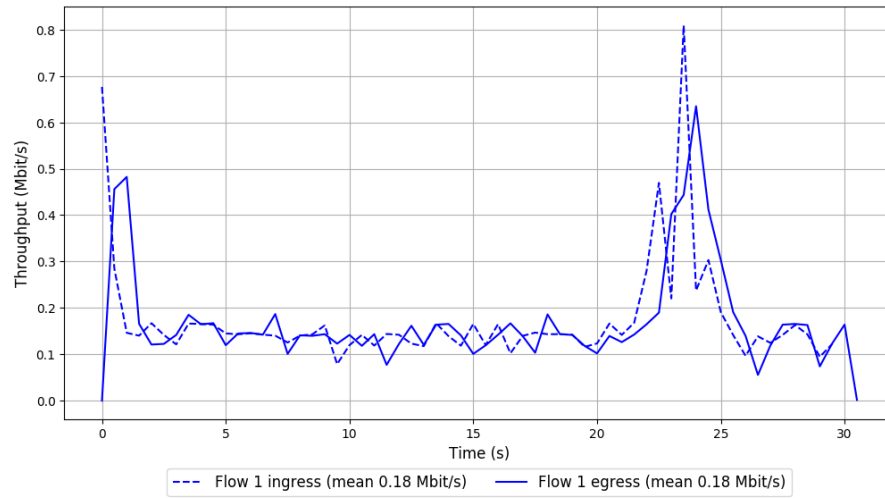


Run 7: Statistics of Sprout

Start at: 2018-05-24 01:47:06
End at: 2018-05-24 01:47:36
Local clock offset: -4.765 ms
Remote clock offset: 4.452 ms

Below is generated by plot.py at 2018-05-24 03:59:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 111.327 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 111.327 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-05-24 02:07:58

End at: 2018-05-24 02:08:28

Local clock offset: -2.895 ms

Remote clock offset: 4.869 ms

Below is generated by plot.py at 2018-05-24 03:59:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 117.783 ms

Loss rate: 0.00%

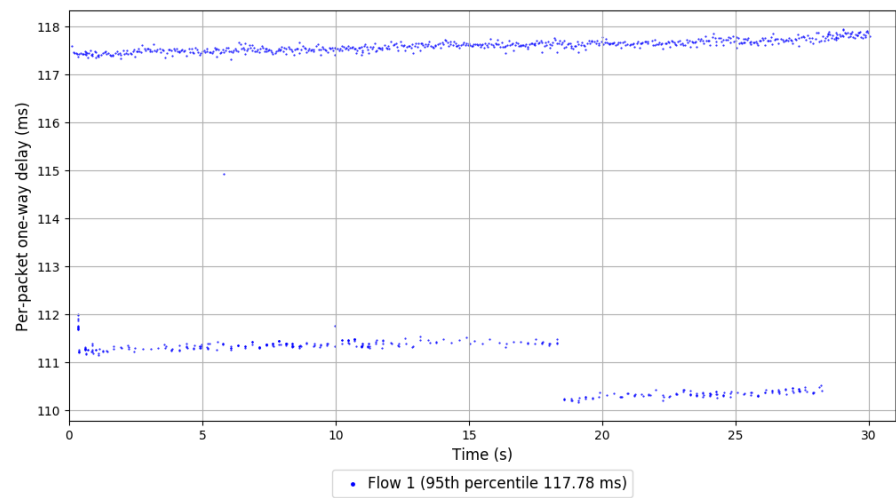
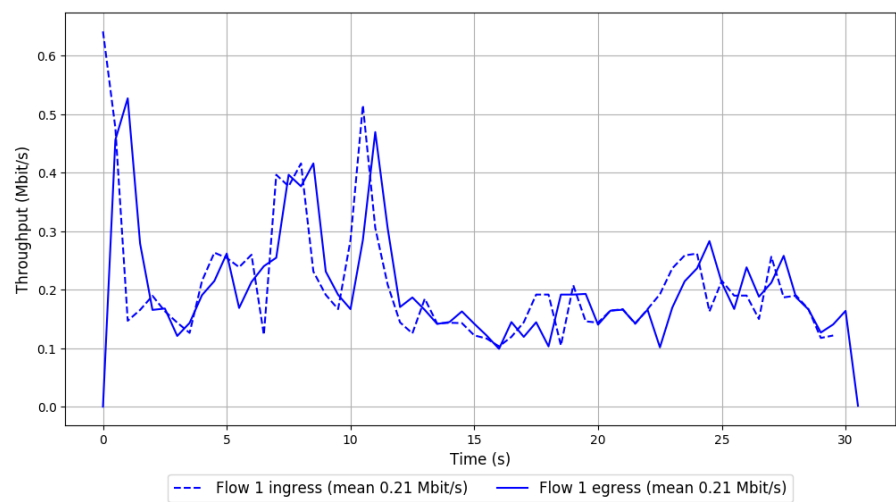
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 117.783 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-05-24 02:28:52

End at: 2018-05-24 02:29:22

Local clock offset: -2.212 ms

Remote clock offset: 1.862 ms

Below is generated by plot.py at 2018-05-24 03:59:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 117.856 ms

Loss rate: 0.35%

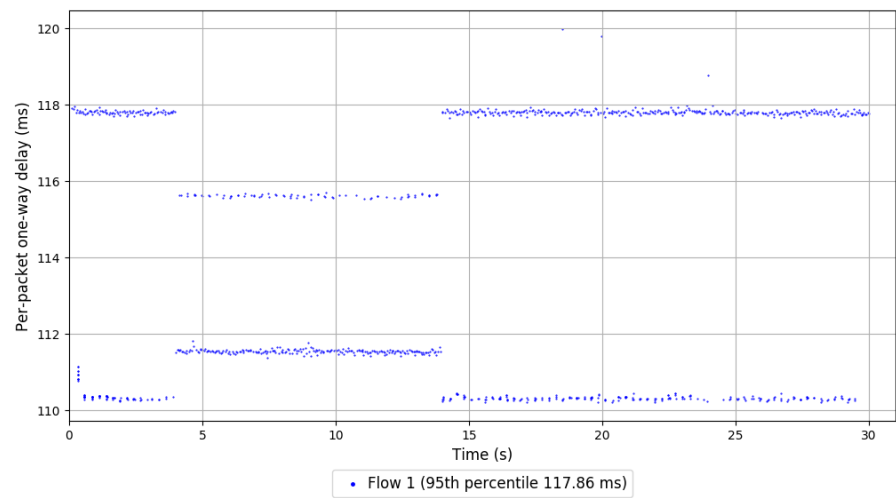
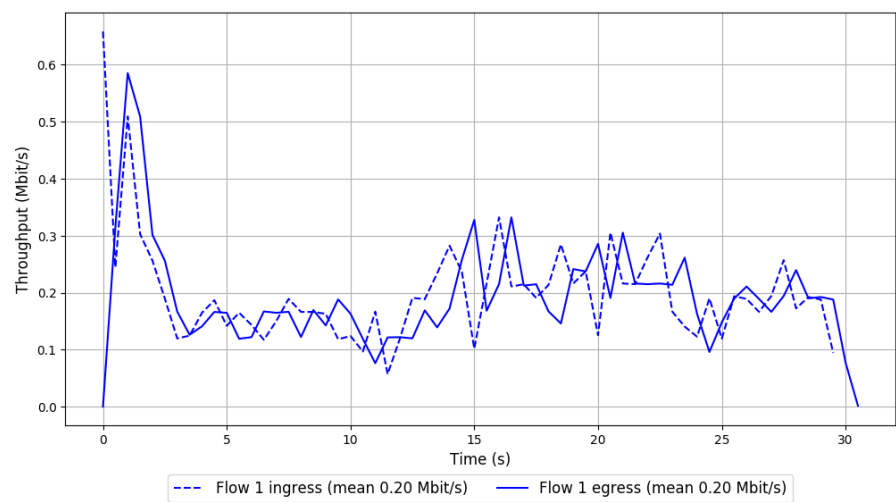
-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 117.856 ms

Loss rate: 0.35%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-05-24 02:49:11

End at: 2018-05-24 02:49:41

Local clock offset: -0.57 ms

Remote clock offset: 1.168 ms

Below is generated by plot.py at 2018-05-24 03:59:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 116.495 ms

Loss rate: 0.00%

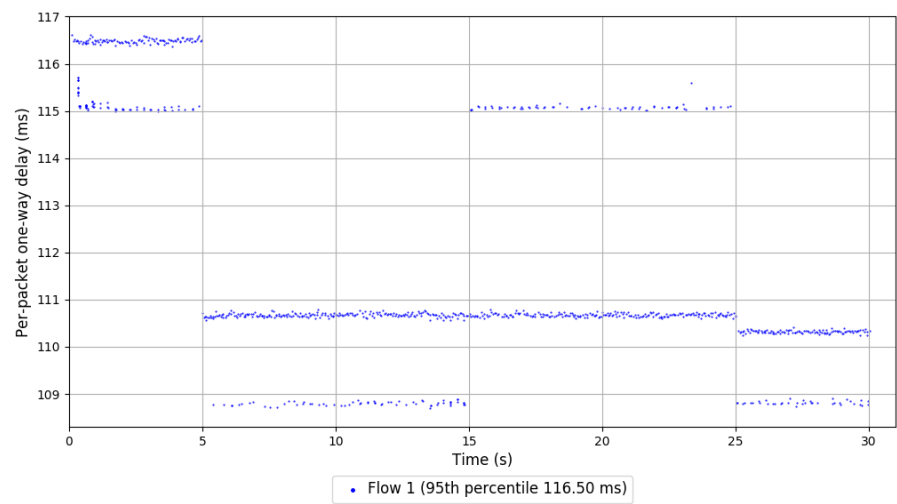
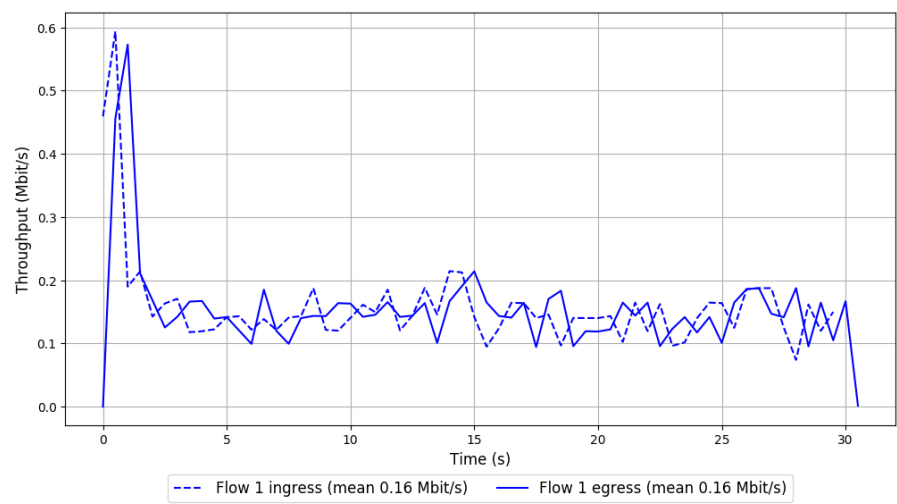
-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 116.495 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

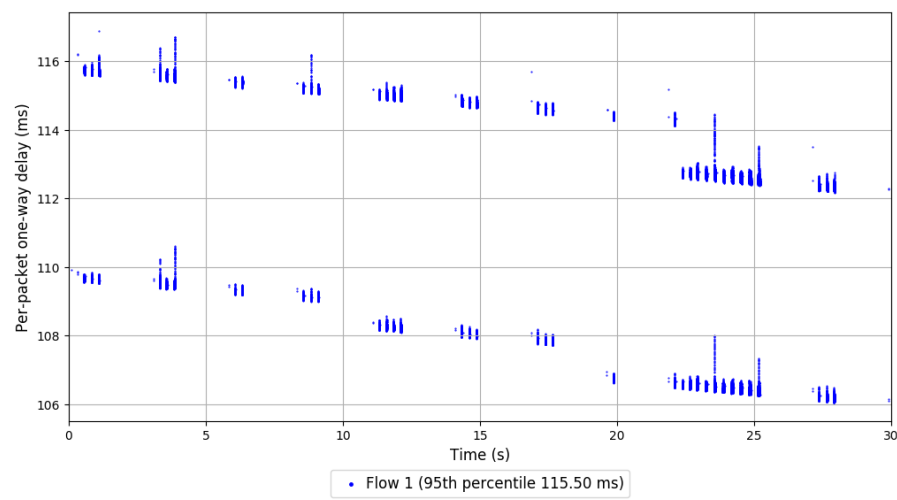
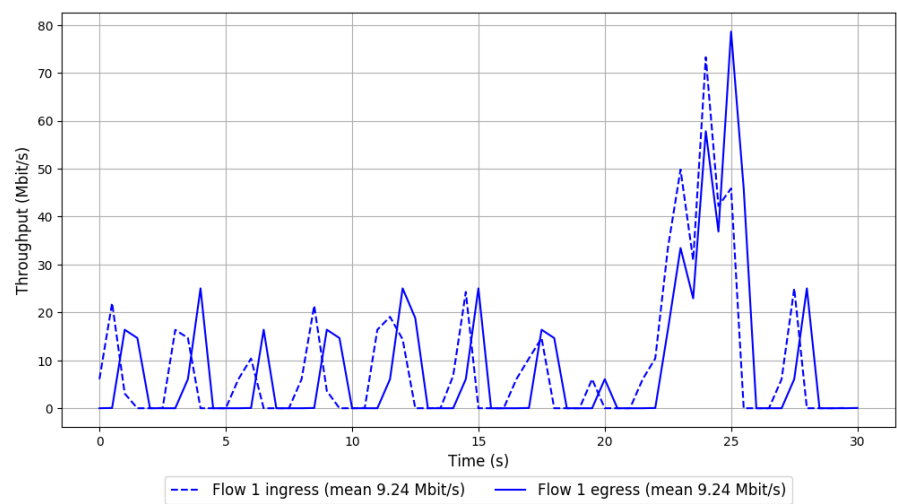


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-05-23 23:49:04
End at: 2018-05-23 23:49:34
Local clock offset: -27.469 ms
Remote clock offset: 38.957 ms

# Below is generated by plot.py at 2018-05-24 03:59:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.24 Mbit/s
95th percentile per-packet one-way delay: 115.497 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.24 Mbit/s
95th percentile per-packet one-way delay: 115.497 ms
Loss rate: 0.00%
```

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

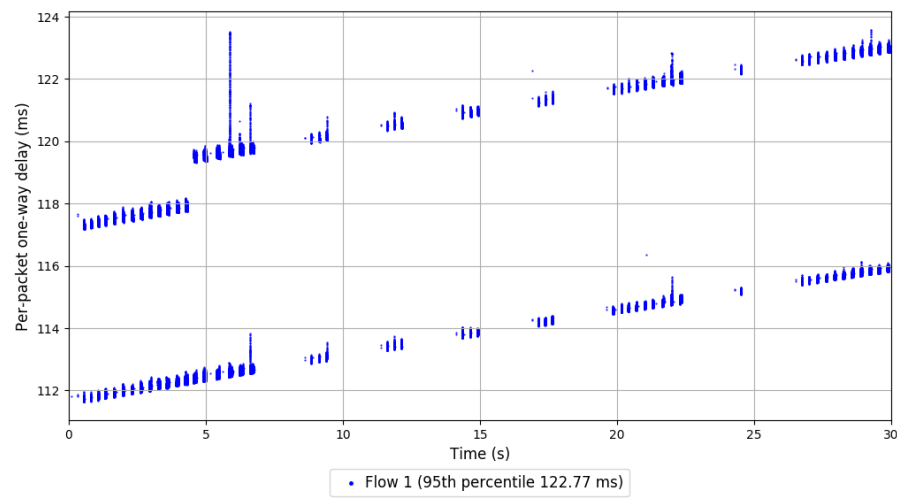
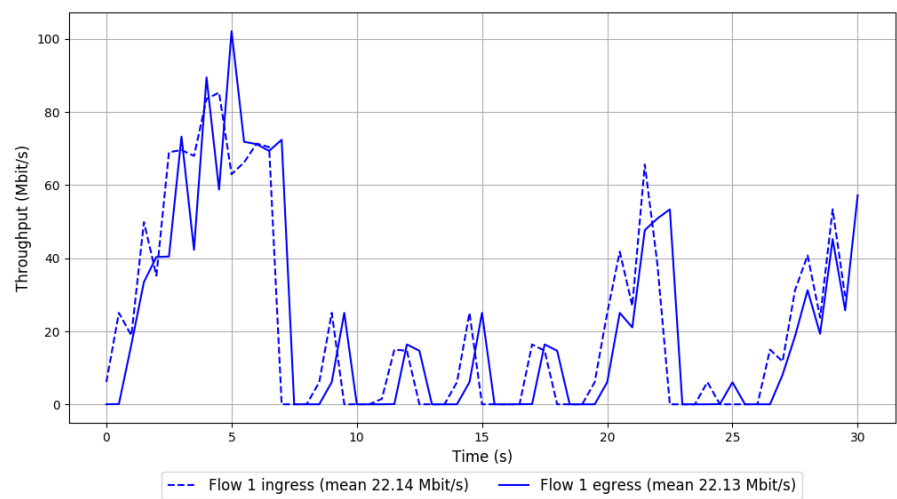


Run 2: Statistics of TaoVA-100x

Start at: 2018-05-24 00:09:12
End at: 2018-05-24 00:09:42
Local clock offset: -22.685 ms
Remote clock offset: 47.337 ms

Below is generated by plot.py at 2018-05-24 03:59:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 22.13 Mbit/s
95th percentile per-packet one-way delay: 122.771 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 22.13 Mbit/s
95th percentile per-packet one-way delay: 122.771 ms
Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

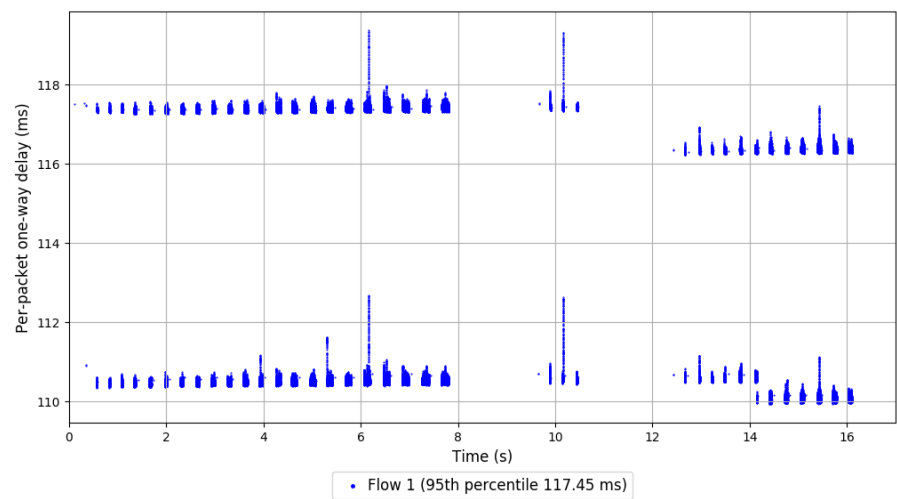
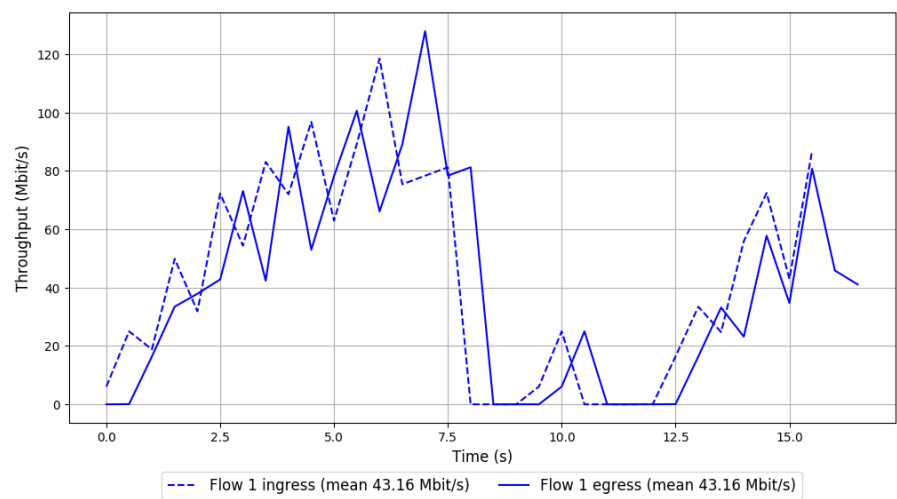
Start at: 2018-05-24 00:29:42

End at: 2018-05-24 00:30:12

Local clock offset: -19.881 ms

Remote clock offset: 25.851 ms

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



Run 4: Statistics of TaoVA-100x

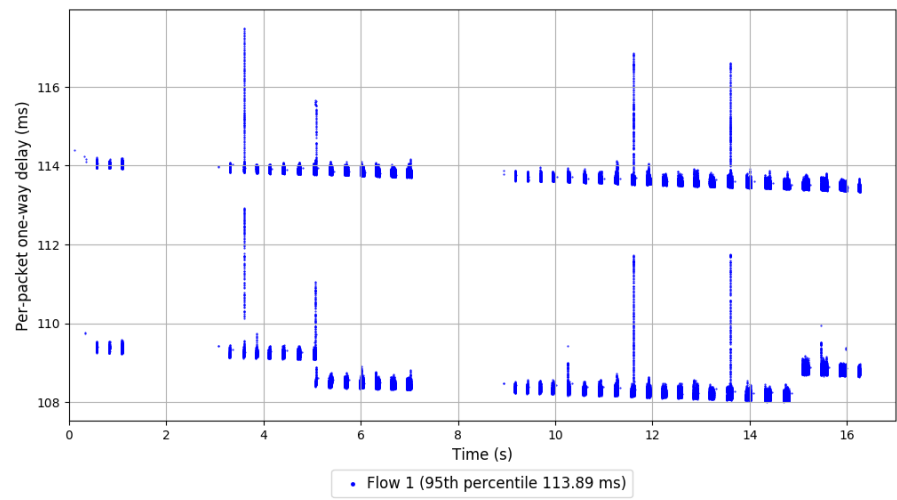
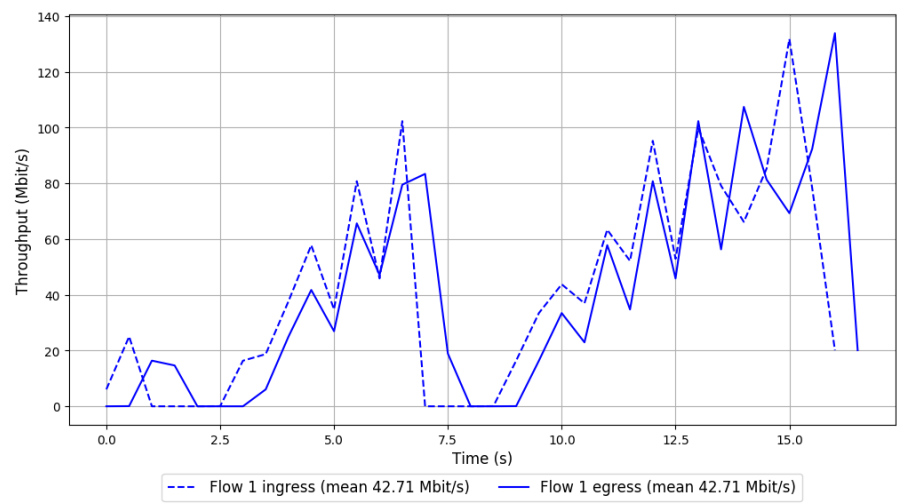
Start at: 2018-05-24 00:50:01

End at: 2018-05-24 00:50:31

Local clock offset: -34.626 ms

Remote clock offset: 37.878 ms

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

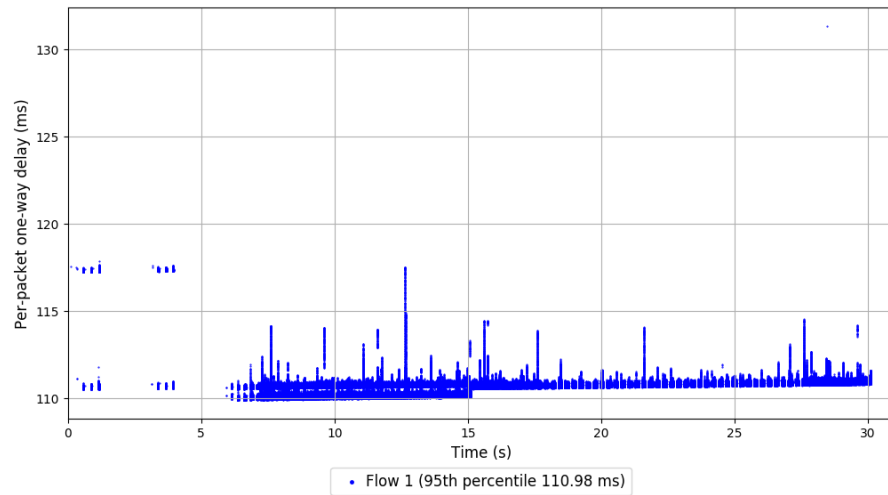
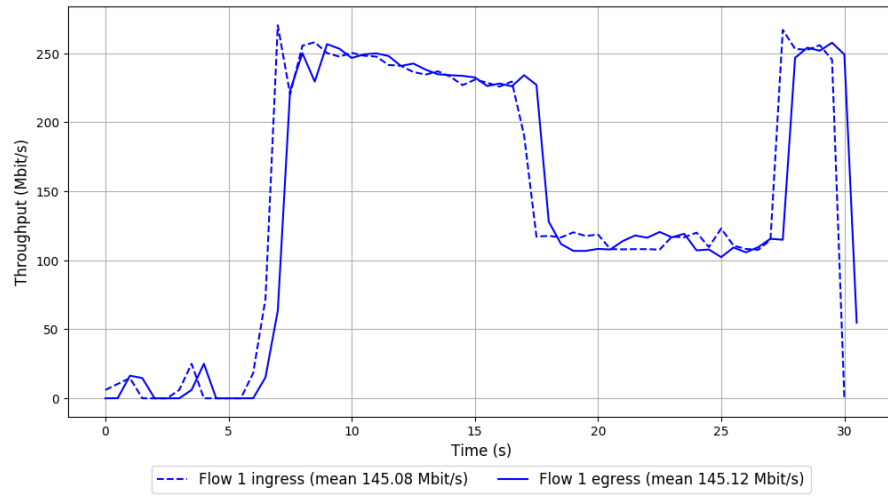


Run 5: Statistics of TaoVA-100x

Start at: 2018-05-24 01:10:51
End at: 2018-05-24 01:11:21
Local clock offset: -15.077 ms
Remote clock offset: 15.668 ms

Below is generated by plot.py at 2018-05-24 03:59:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 145.12 Mbit/s
95th percentile per-packet one-way delay: 110.977 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 145.12 Mbit/s
95th percentile per-packet one-way delay: 110.977 ms
Loss rate: 0.00%

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

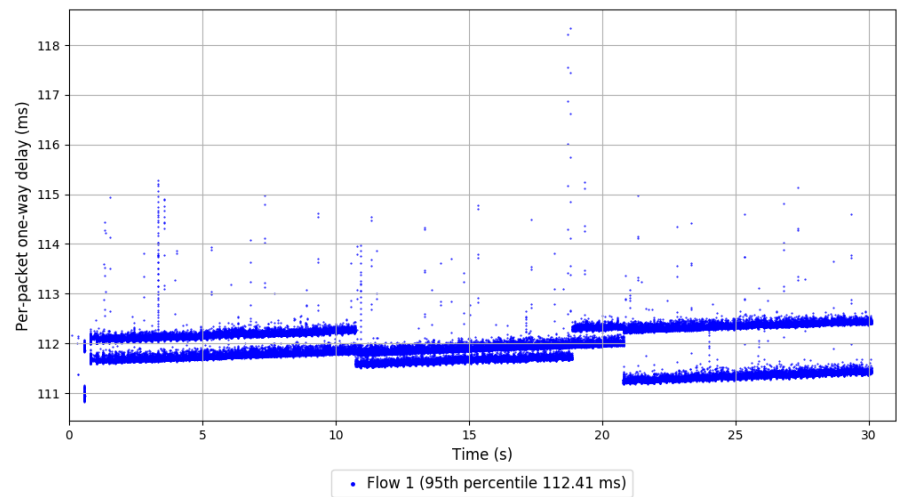
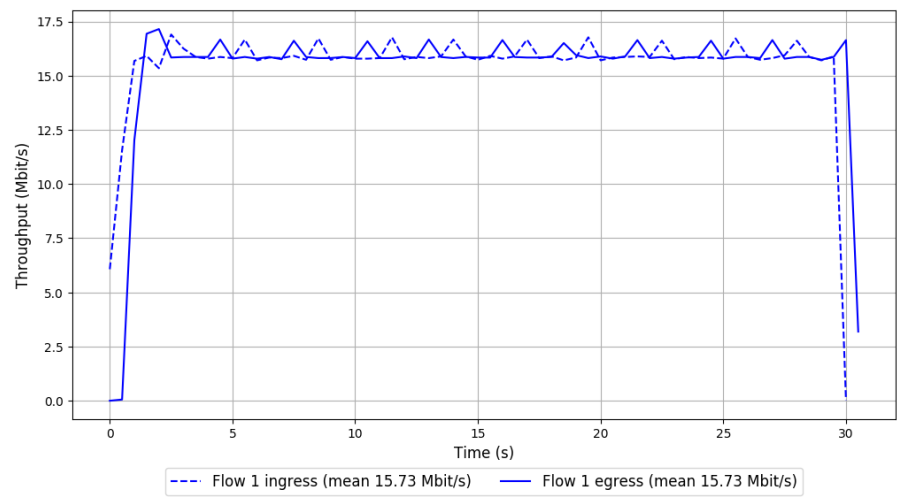


Run 6: Statistics of TaoVA-100x

Start at: 2018-05-24 01:31:45
End at: 2018-05-24 01:32:16
Local clock offset: -14.585 ms
Remote clock offset: 12.555 ms

Below is generated by plot.py at 2018-05-24 03:59:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 15.73 Mbit/s
95th percentile per-packet one-way delay: 112.406 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.73 Mbit/s
95th percentile per-packet one-way delay: 112.406 ms
Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-05-24 01:52:36

End at: 2018-05-24 01:53:06

Local clock offset: -4.227 ms

Remote clock offset: 4.229 ms

Below is generated by plot.py at 2018-05-24 04:00:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.64 Mbit/s

95th percentile per-packet one-way delay: 111.005 ms

Loss rate: 0.00%

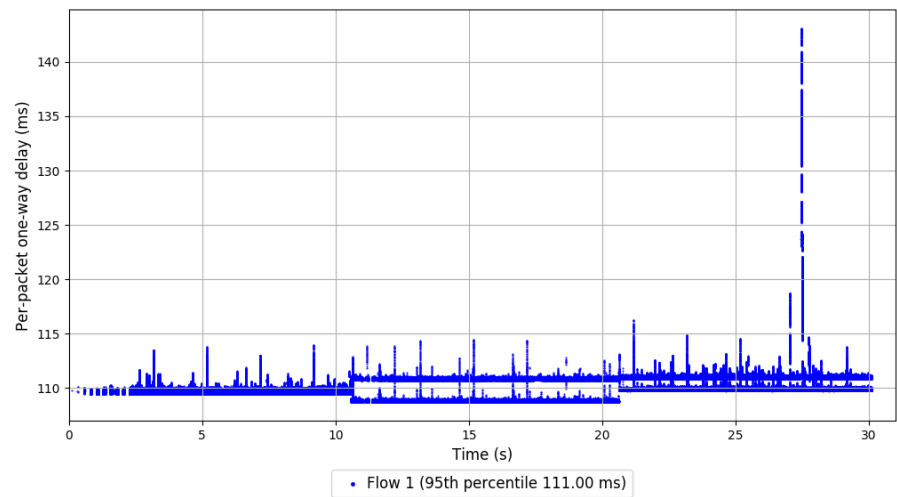
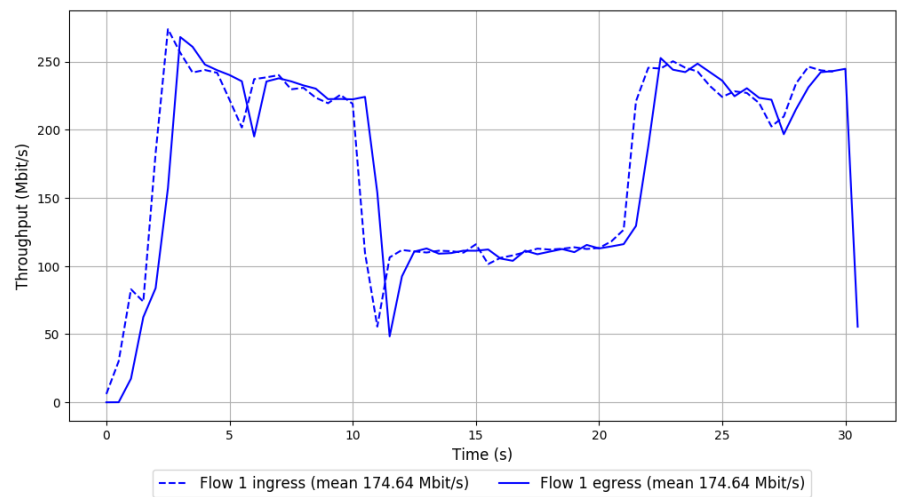
-- Flow 1:

Average throughput: 174.64 Mbit/s

95th percentile per-packet one-way delay: 111.005 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-05-24 02:13:27

End at: 2018-05-24 02:13:57

Local clock offset: -2.194 ms

Remote clock offset: 2.92 ms

Below is generated by plot.py at 2018-05-24 04:00:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.30 Mbit/s

95th percentile per-packet one-way delay: 111.465 ms

Loss rate: 0.00%

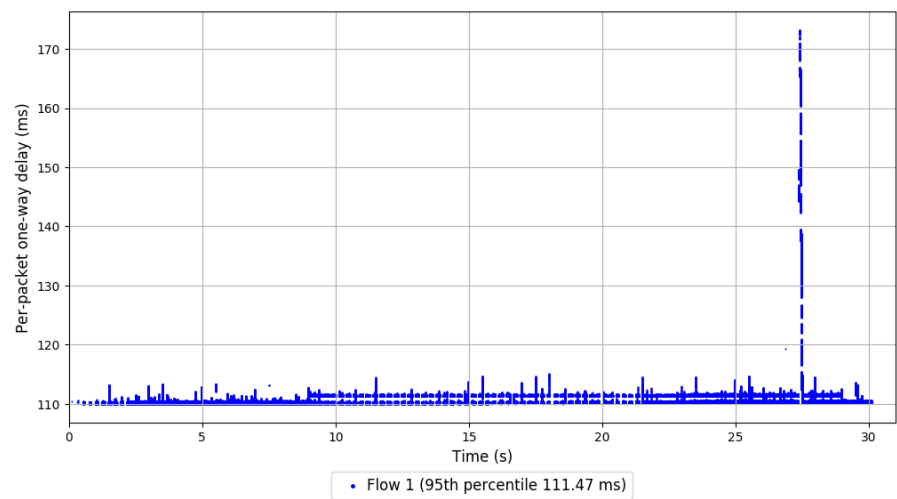
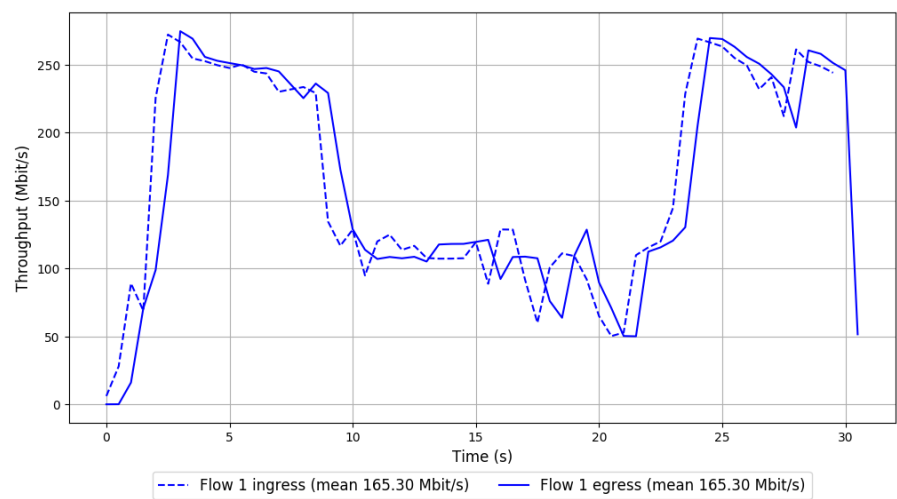
-- Flow 1:

Average throughput: 165.30 Mbit/s

95th percentile per-packet one-way delay: 111.465 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

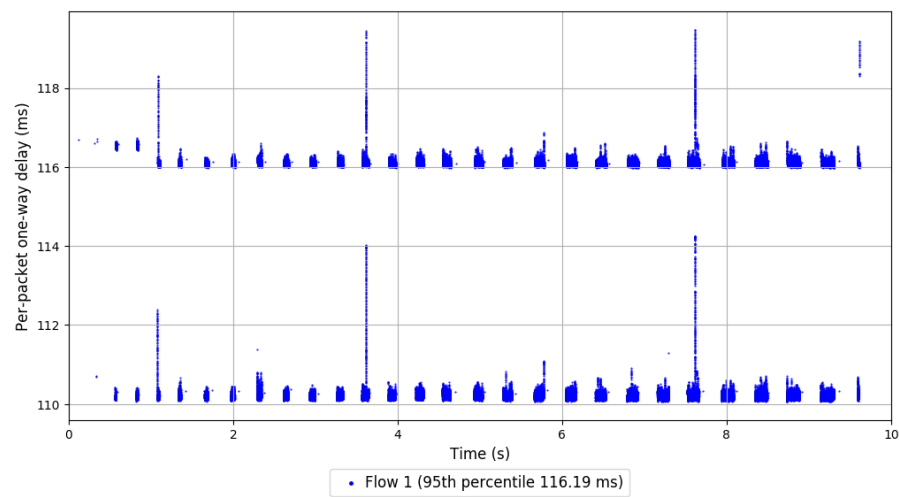
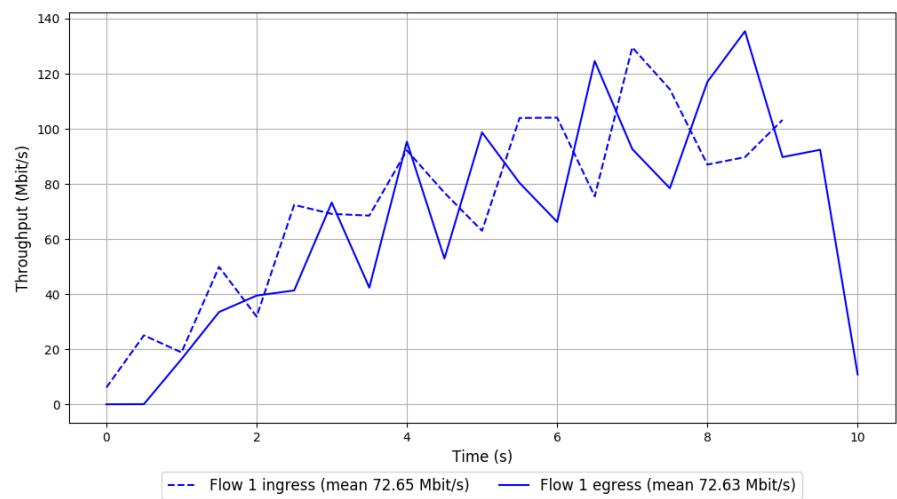
Start at: 2018-05-24 02:34:05

End at: 2018-05-24 02:34:35

Local clock offset: -2.004 ms

Remote clock offset: 2.452 ms

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-05-24 02:54:44

End at: 2018-05-24 02:55:14

Local clock offset: -0.748 ms

Remote clock offset: 0.464 ms

Below is generated by plot.py at 2018-05-24 04:00:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.94 Mbit/s

95th percentile per-packet one-way delay: 114.808 ms

Loss rate: 0.01%

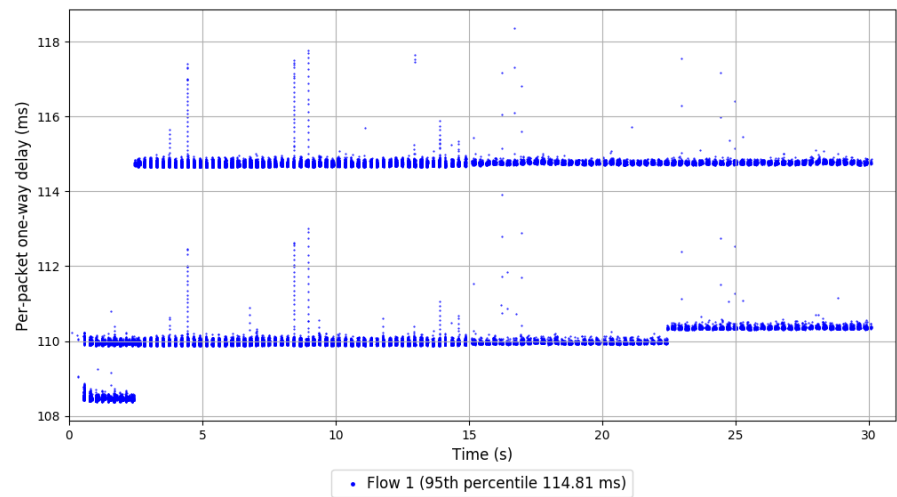
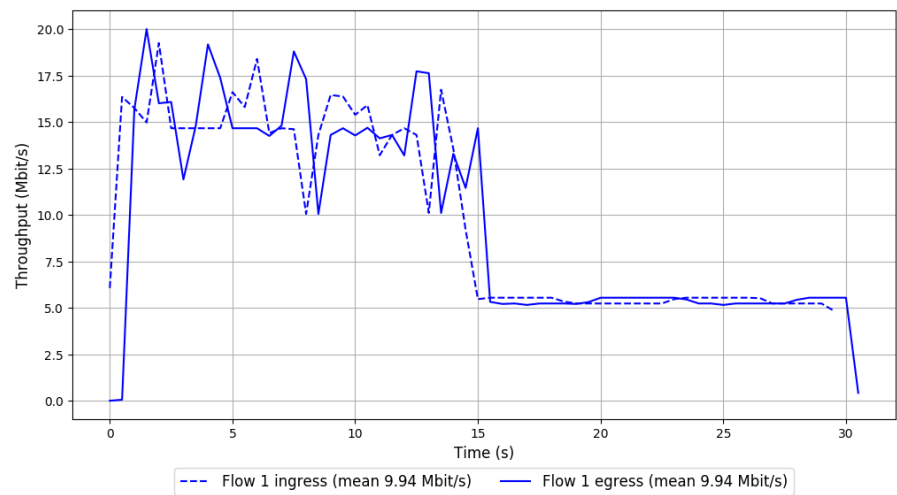
-- Flow 1:

Average throughput: 9.94 Mbit/s

95th percentile per-packet one-way delay: 114.808 ms

Loss rate: 0.01%

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

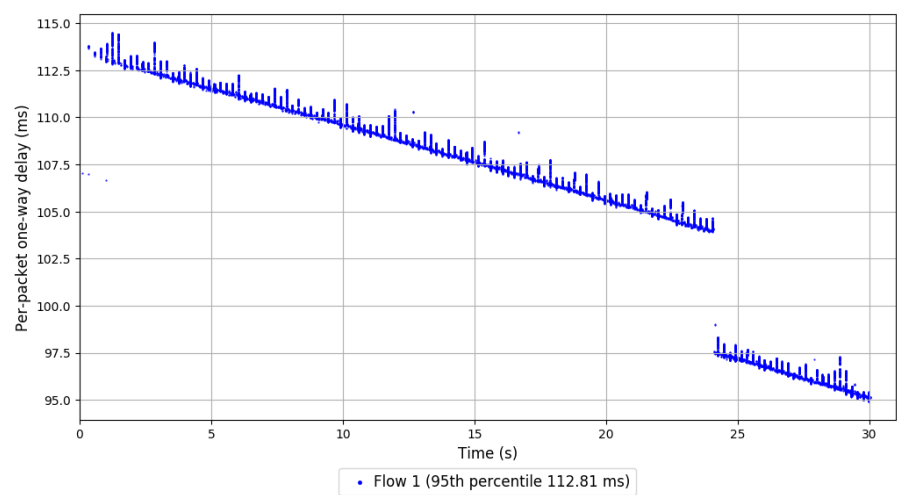
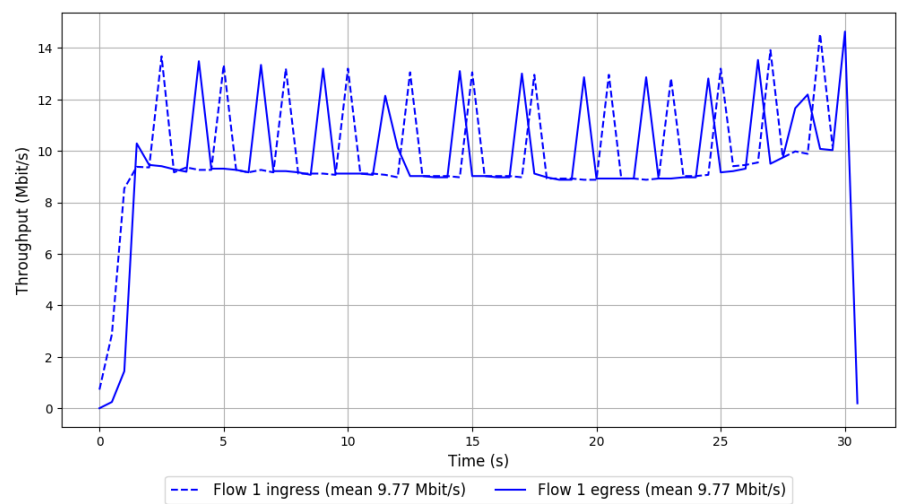


Run 1: Statistics of TCP Vegas

Start at: 2018-05-23 23:32:22
End at: 2018-05-23 23:32:52
Local clock offset: -9.107 ms
Remote clock offset: 28.982 ms

Below is generated by plot.py at 2018-05-24 04:00:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.77 Mbit/s
95th percentile per-packet one-way delay: 112.812 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.77 Mbit/s
95th percentile per-packet one-way delay: 112.812 ms
Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link

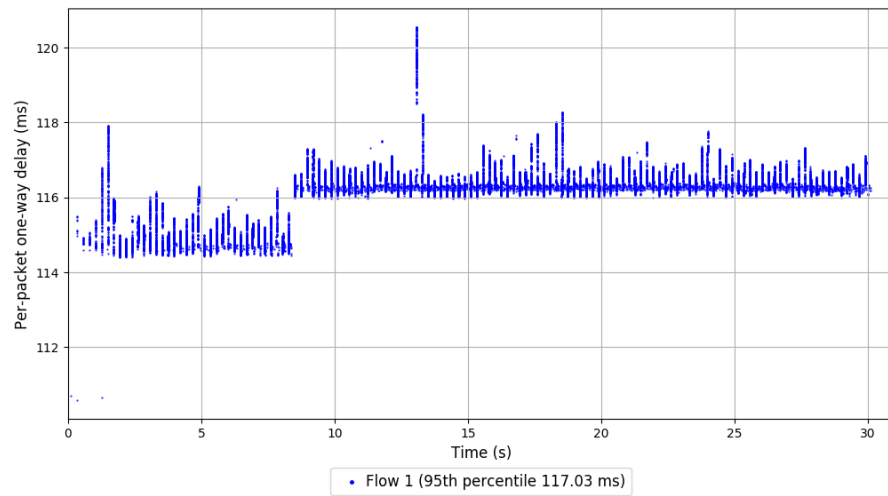
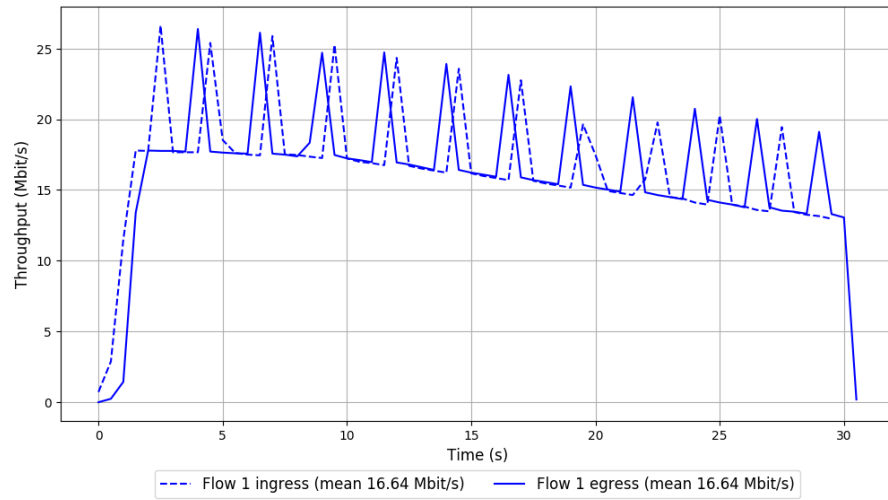


Run 2: Statistics of TCP Vegas

Start at: 2018-05-23 23:52:38
End at: 2018-05-23 23:53:08
Local clock offset: -27.954 ms
Remote clock offset: 34.933 ms

Below is generated by plot.py at 2018-05-24 04:00:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 16.64 Mbit/s
95th percentile per-packet one-way delay: 117.032 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 16.64 Mbit/s
95th percentile per-packet one-way delay: 117.032 ms
Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link

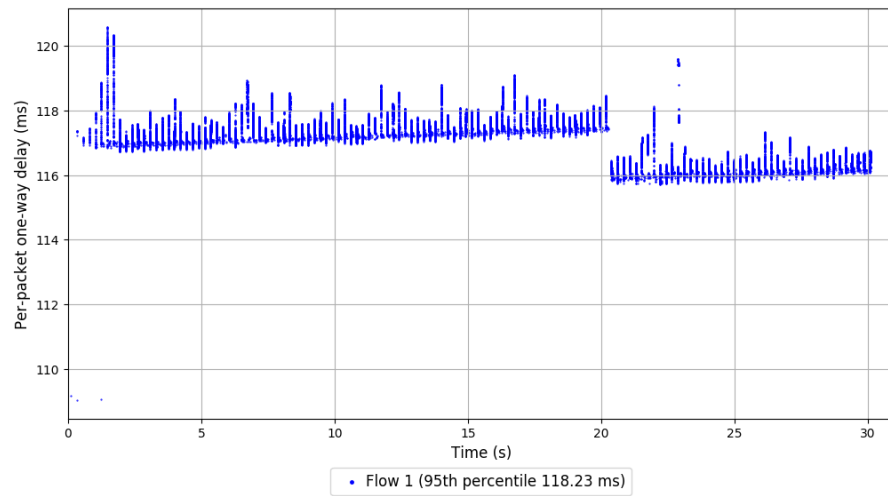
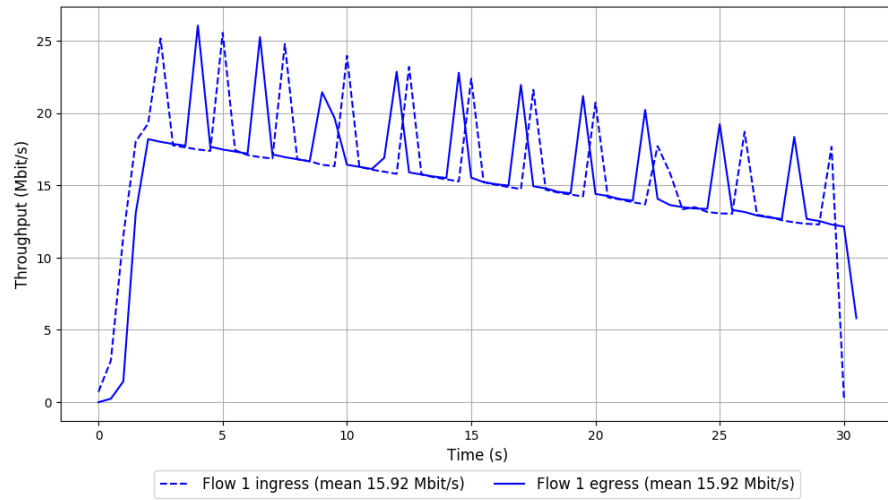


Run 3: Statistics of TCP Vegas

Start at: 2018-05-24 00:12:56
End at: 2018-05-24 00:13:26
Local clock offset: -20.71 ms
Remote clock offset: 28.595 ms

Below is generated by plot.py at 2018-05-24 04:00:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 15.92 Mbit/s
95th percentile per-packet one-way delay: 118.235 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.92 Mbit/s
95th percentile per-packet one-way delay: 118.235 ms
Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link

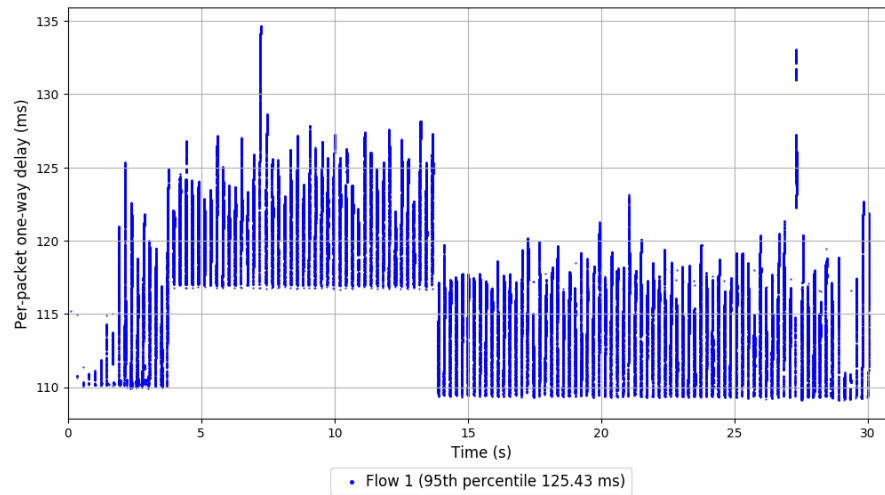
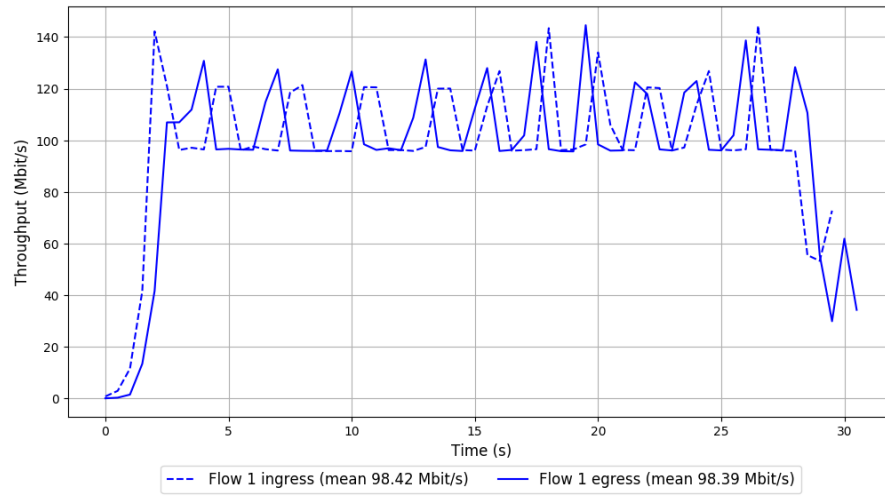


Run 4: Statistics of TCP Vegas

Start at: 2018-05-24 00:33:22
End at: 2018-05-24 00:33:52
Local clock offset: -20.842 ms
Remote clock offset: 24.56 ms

Below is generated by plot.py at 2018-05-24 04:00:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 98.39 Mbit/s
95th percentile per-packet one-way delay: 125.432 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 98.39 Mbit/s
95th percentile per-packet one-way delay: 125.432 ms
Loss rate: 0.02%

Run 4: Report of TCP Vegas — Data Link

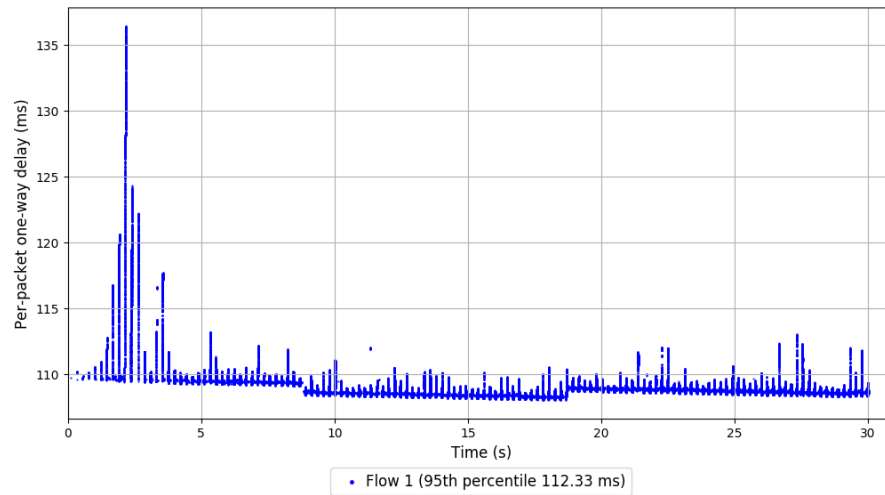
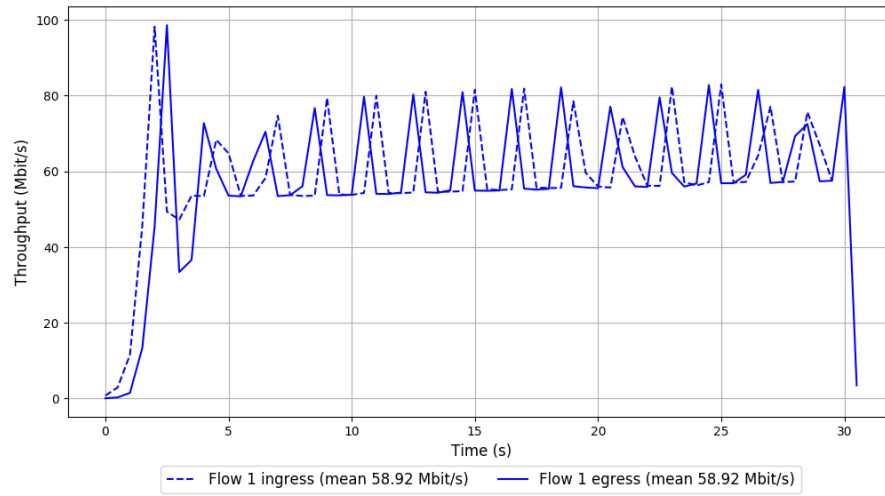


Run 5: Statistics of TCP Vegas

Start at: 2018-05-24 00:53:38
End at: 2018-05-24 00:54:08
Local clock offset: -38.528 ms
Remote clock offset: 42.653 ms

Below is generated by plot.py at 2018-05-24 04:00:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 58.92 Mbit/s
95th percentile per-packet one-way delay: 112.334 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.92 Mbit/s
95th percentile per-packet one-way delay: 112.334 ms
Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link

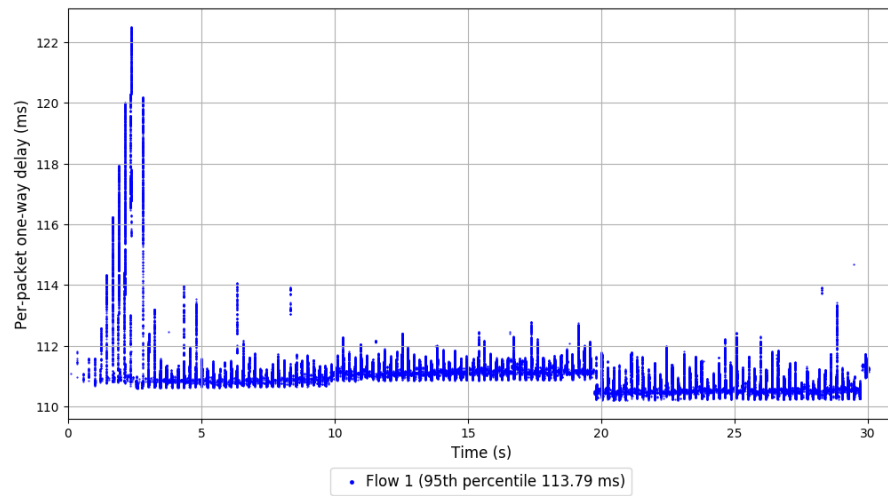
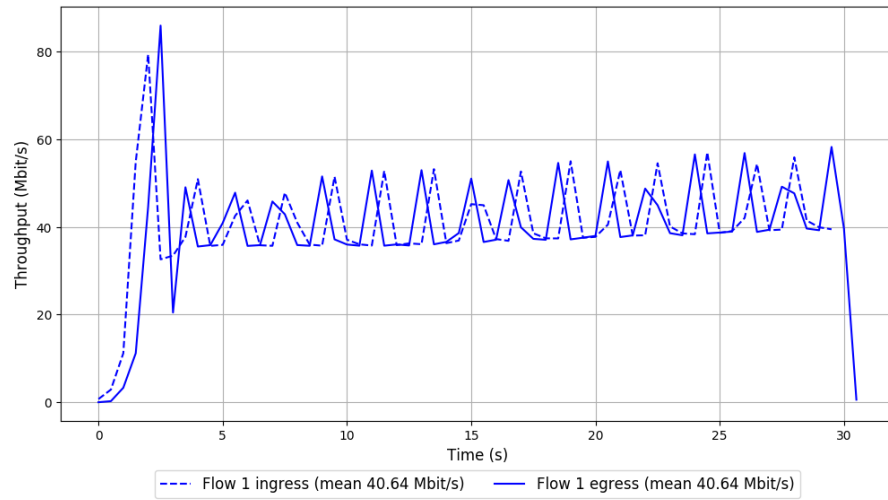


Run 6: Statistics of TCP Vegas

Start at: 2018-05-24 01:14:36
End at: 2018-05-24 01:15:07
Local clock offset: -15.167 ms
Remote clock offset: 13.218 ms

Below is generated by plot.py at 2018-05-24 04:00:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 40.64 Mbit/s
95th percentile per-packet one-way delay: 113.794 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 40.64 Mbit/s
95th percentile per-packet one-way delay: 113.794 ms
Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link

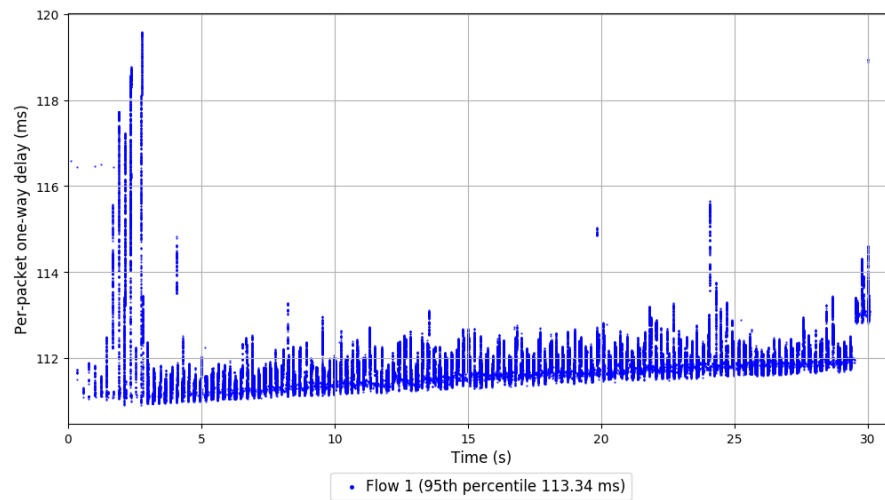
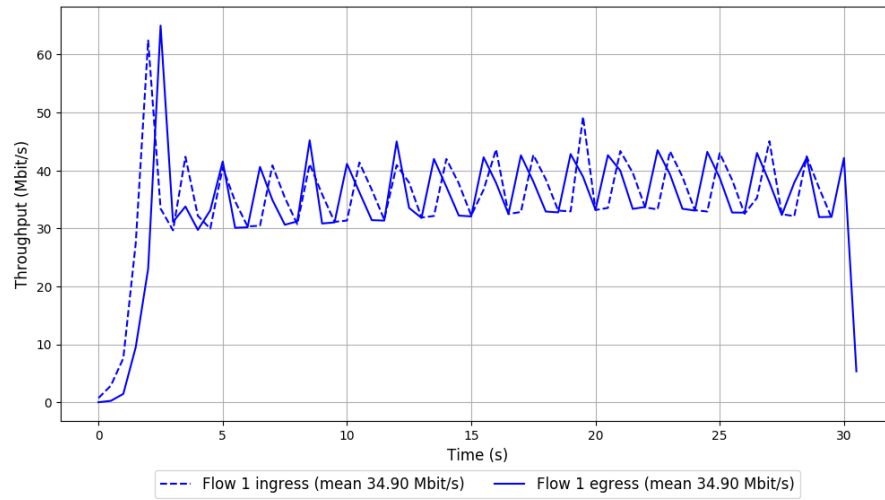


Run 7: Statistics of TCP Vegas

Start at: 2018-05-24 01:35:27
End at: 2018-05-24 01:35:57
Local clock offset: -10.241 ms
Remote clock offset: 9.758 ms

Below is generated by plot.py at 2018-05-24 04:00:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 34.90 Mbit/s
95th percentile per-packet one-way delay: 113.336 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 34.90 Mbit/s
95th percentile per-packet one-way delay: 113.336 ms
Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-05-24 01:56:24

End at: 2018-05-24 01:56:54

Local clock offset: -4.227 ms

Remote clock offset: 4.731 ms

Below is generated by plot.py at 2018-05-24 04:00:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.59 Mbit/s

95th percentile per-packet one-way delay: 113.460 ms

Loss rate: 0.00%

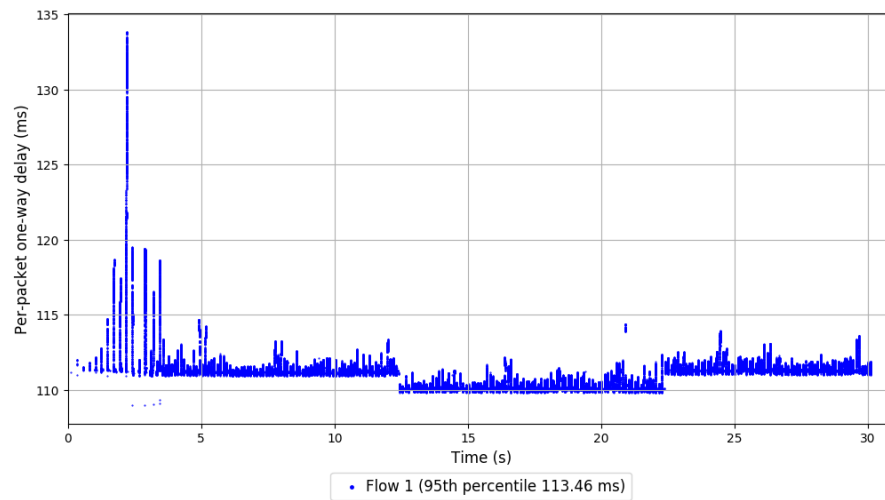
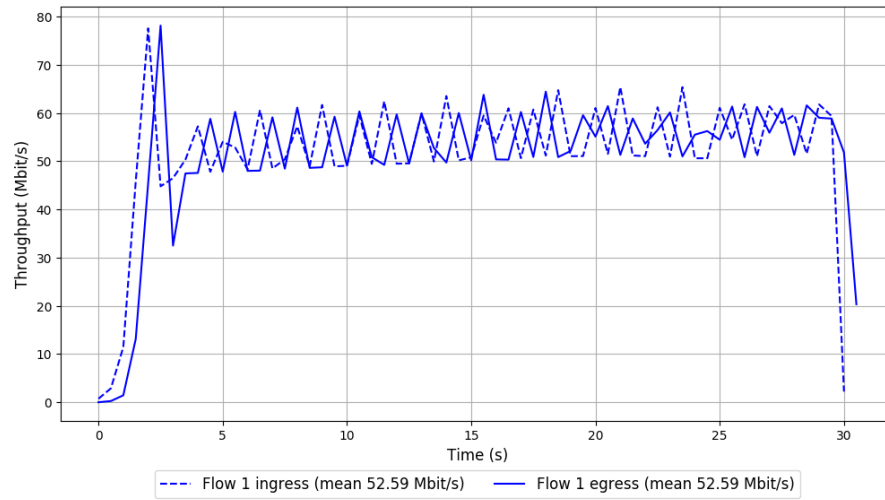
-- Flow 1:

Average throughput: 52.59 Mbit/s

95th percentile per-packet one-way delay: 113.460 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-05-24 02:17:24

End at: 2018-05-24 02:17:55

Local clock offset: -1.669 ms

Remote clock offset: 2.236 ms

Below is generated by plot.py at 2018-05-24 04:00:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.79 Mbit/s

95th percentile per-packet one-way delay: 116.790 ms

Loss rate: 0.01%

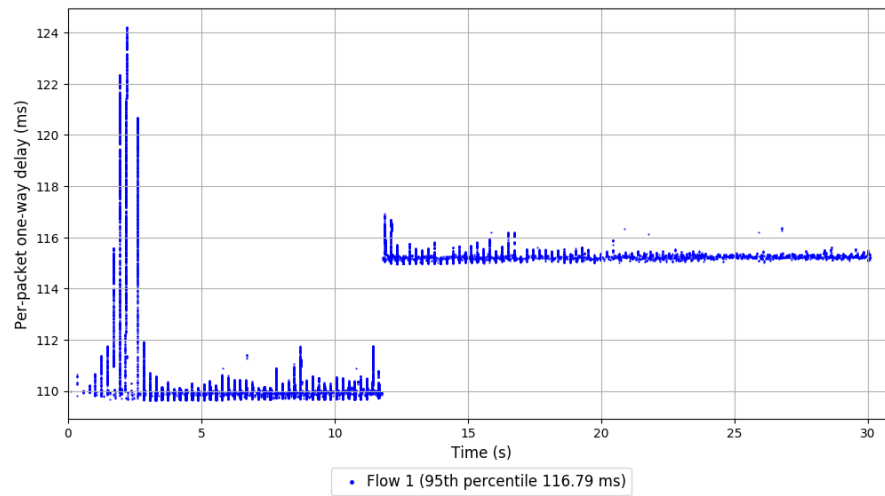
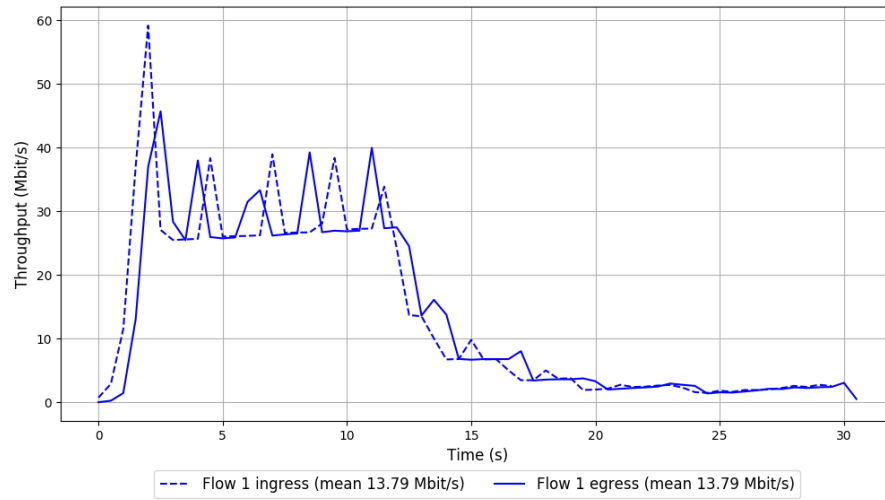
-- Flow 1:

Average throughput: 13.79 Mbit/s

95th percentile per-packet one-way delay: 116.790 ms

Loss rate: 0.01%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-05-24 02:37:41

End at: 2018-05-24 02:38:11

Local clock offset: -2.179 ms

Remote clock offset: 2.671 ms

Below is generated by plot.py at 2018-05-24 04:00:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.24 Mbit/s

95th percentile per-packet one-way delay: 118.397 ms

Loss rate: 0.02%

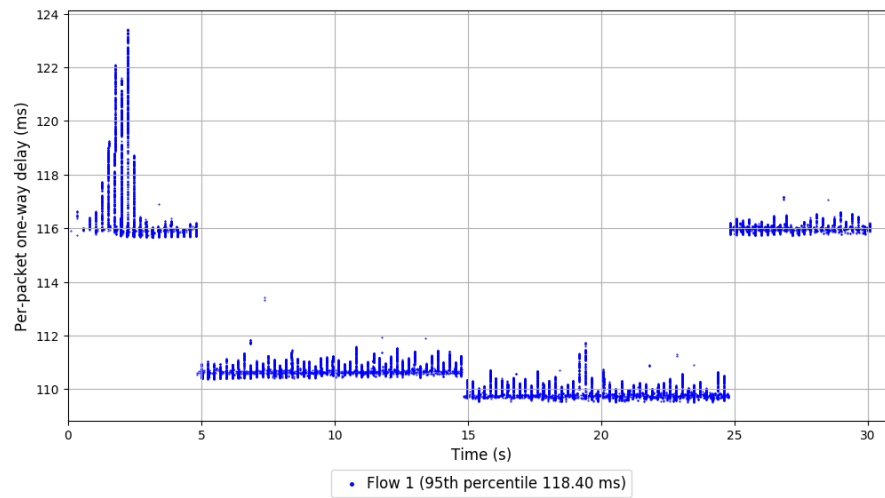
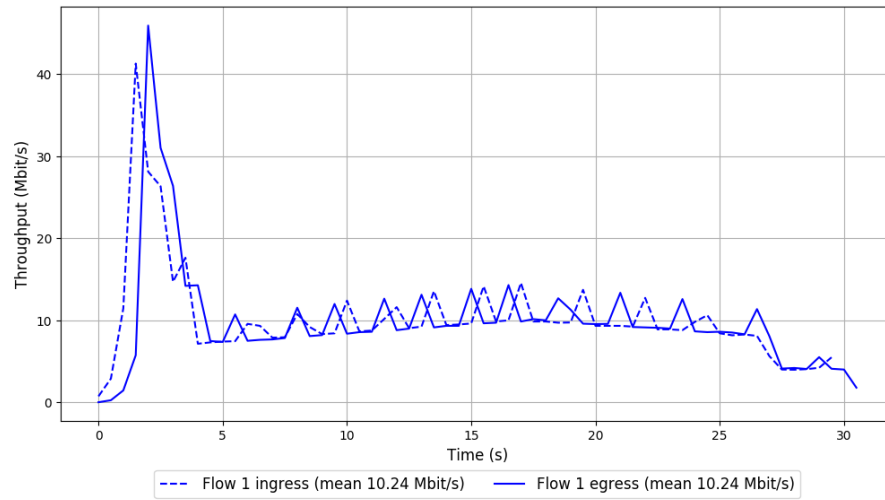
-- Flow 1:

Average throughput: 10.24 Mbit/s

95th percentile per-packet one-way delay: 118.397 ms

Loss rate: 0.02%

Run 10: Report of TCP Vegas — Data Link

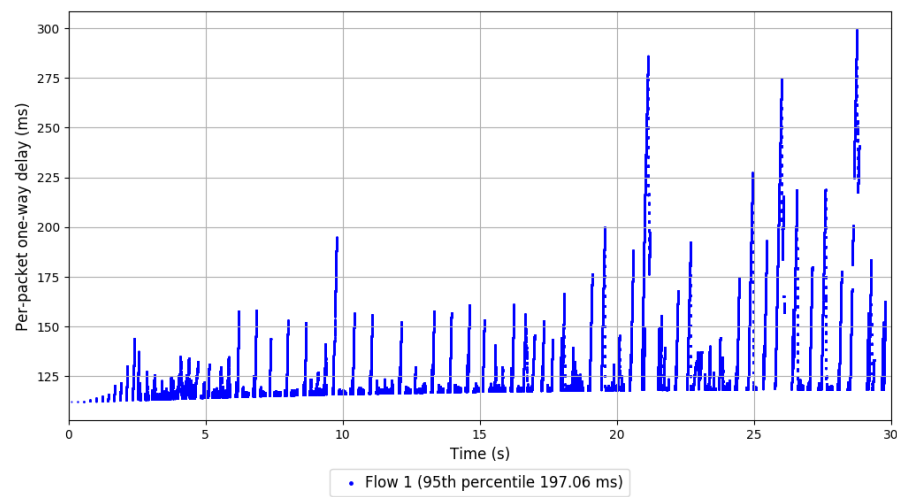
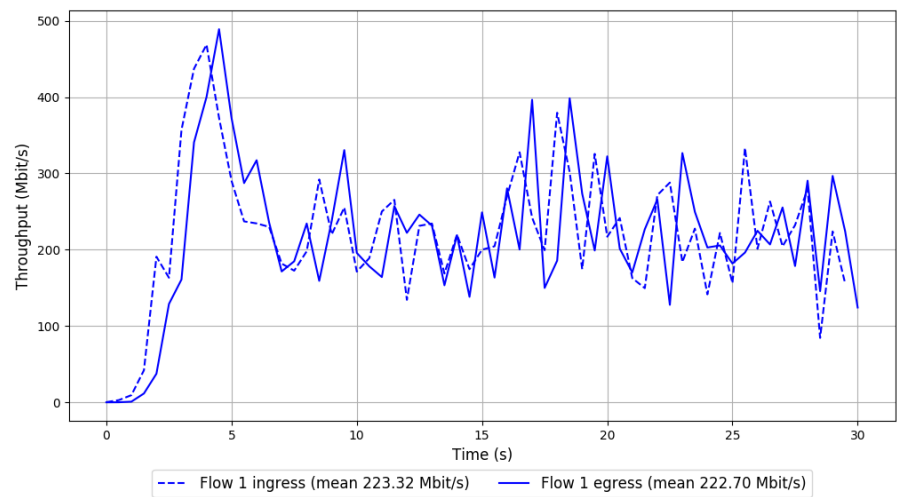


Run 1: Statistics of Verus

Start at: 2018-05-23 23:30:59
End at: 2018-05-23 23:31:29
Local clock offset: -8.268 ms
Remote clock offset: 27.659 ms

Below is generated by plot.py at 2018-05-24 04:01:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 222.70 Mbit/s
95th percentile per-packet one-way delay: 197.058 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 222.70 Mbit/s
95th percentile per-packet one-way delay: 197.058 ms
Loss rate: 0.25%

Run 1: Report of Verus — Data Link

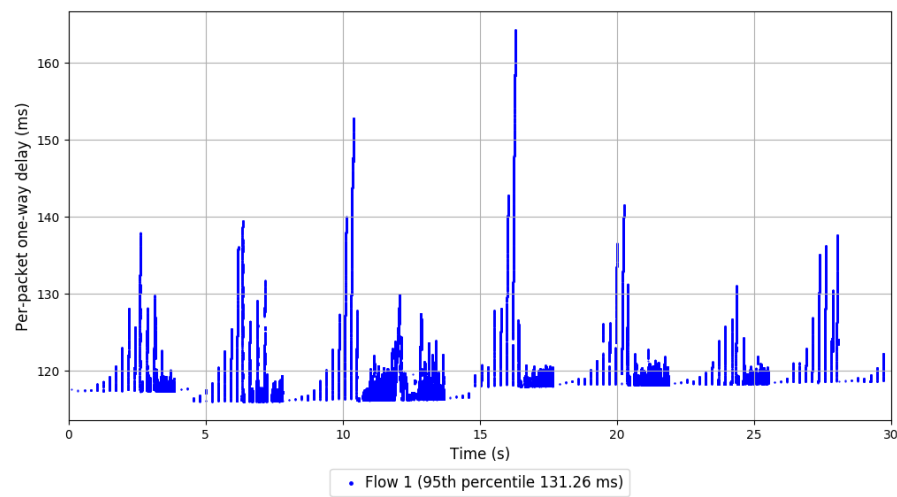
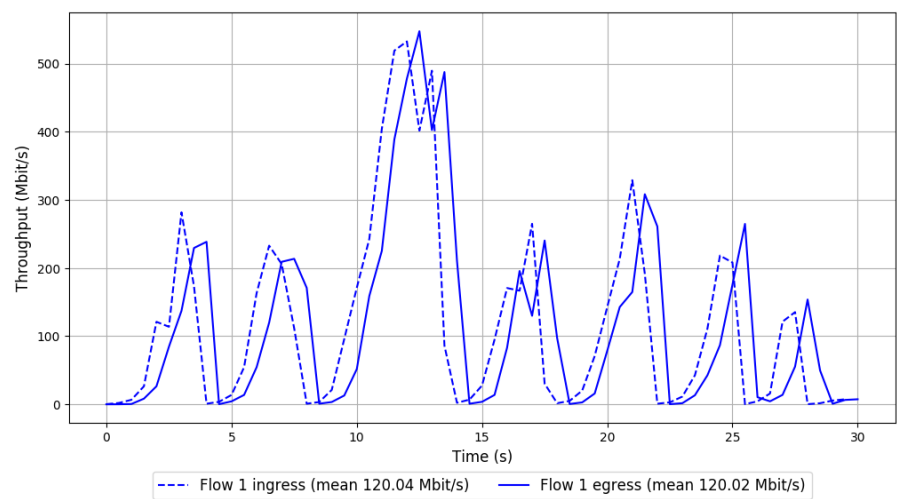


Run 2: Statistics of Verus

Start at: 2018-05-23 23:51:21
End at: 2018-05-23 23:51:51
Local clock offset: -27.307 ms
Remote clock offset: 39.165 ms

Below is generated by plot.py at 2018-05-24 04:01:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 120.02 Mbit/s
95th percentile per-packet one-way delay: 131.257 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 120.02 Mbit/s
95th percentile per-packet one-way delay: 131.257 ms
Loss rate: 0.00%

Run 2: Report of Verus — Data Link

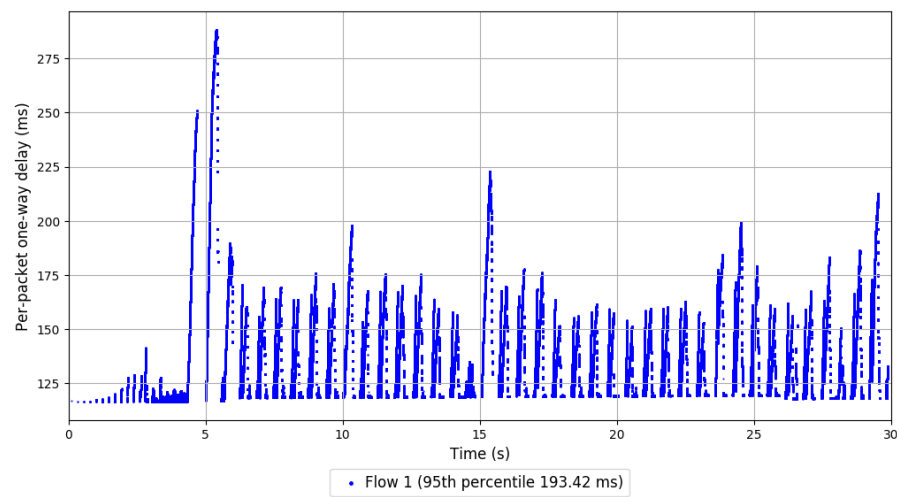
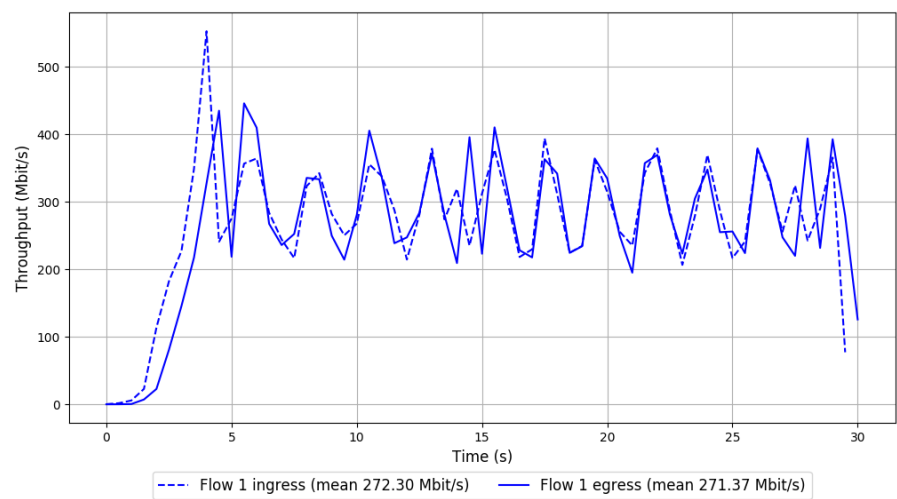


Run 3: Statistics of Verus

Start at: 2018-05-24 00:11:30
End at: 2018-05-24 00:12:00
Local clock offset: -20.602 ms
Remote clock offset: 34.011 ms

Below is generated by plot.py at 2018-05-24 04:01:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 271.37 Mbit/s
95th percentile per-packet one-way delay: 193.419 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 271.37 Mbit/s
95th percentile per-packet one-way delay: 193.419 ms
Loss rate: 0.34%

Run 3: Report of Verus — Data Link

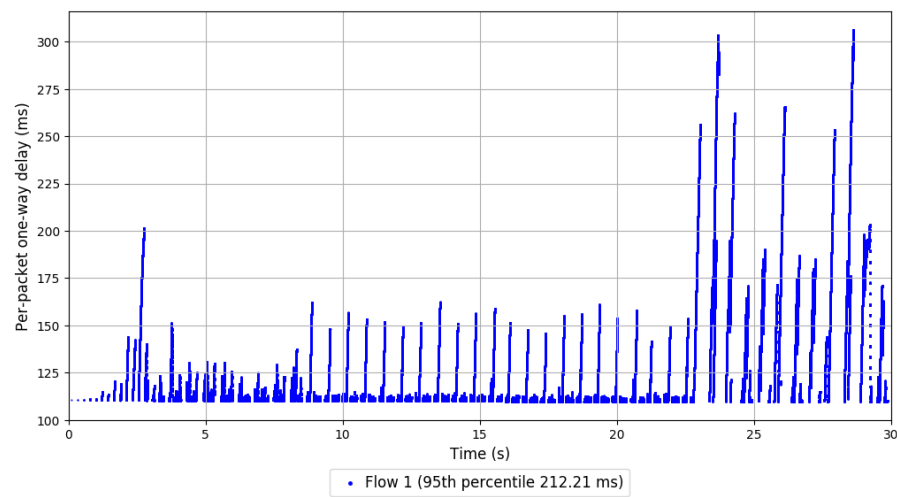
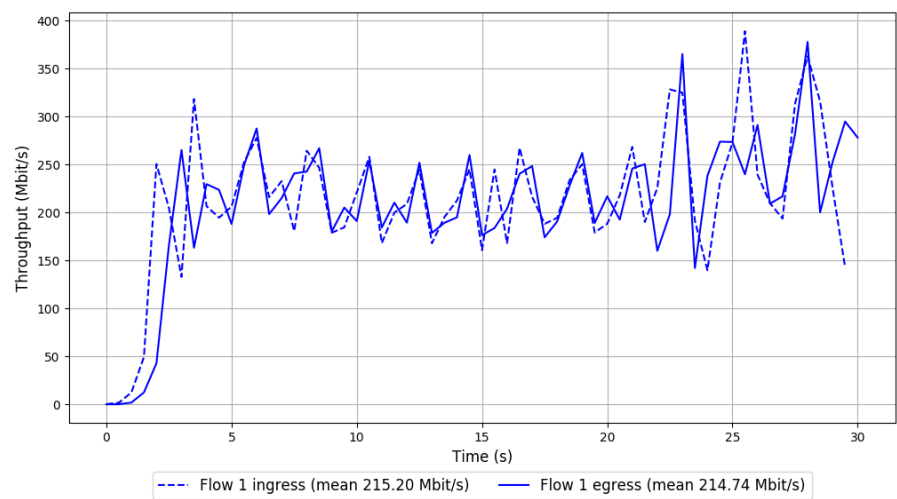


Run 4: Statistics of Verus

Start at: 2018-05-24 00:32:00
End at: 2018-05-24 00:32:30
Local clock offset: -20.443 ms
Remote clock offset: 24.779 ms

Below is generated by plot.py at 2018-05-24 04:02:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 214.74 Mbit/s
95th percentile per-packet one-way delay: 212.214 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 214.74 Mbit/s
95th percentile per-packet one-way delay: 212.214 ms
Loss rate: 0.22%

Run 4: Report of Verus — Data Link

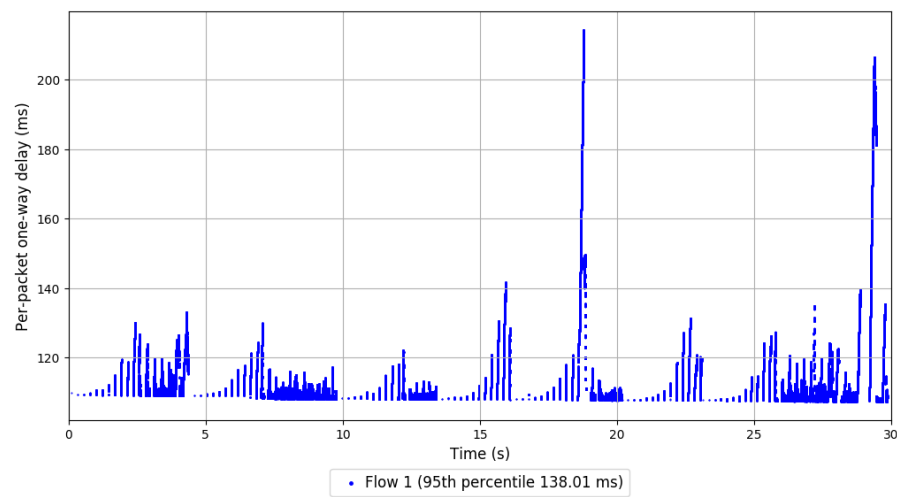
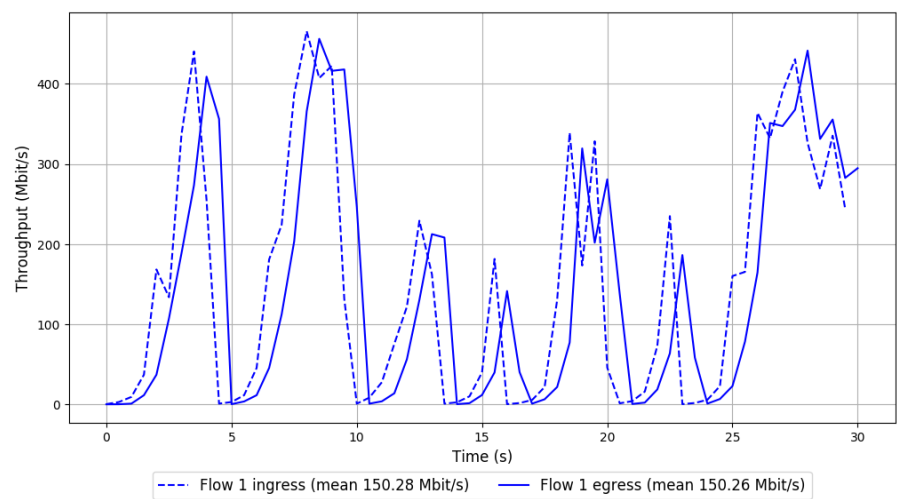


Run 5: Statistics of Verus

Start at: 2018-05-24 00:52:19
End at: 2018-05-24 00:52:50
Local clock offset: -37.172 ms
Remote clock offset: 40.547 ms

Below is generated by plot.py at 2018-05-24 04:02:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 150.26 Mbit/s
95th percentile per-packet one-way delay: 138.008 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 150.26 Mbit/s
95th percentile per-packet one-way delay: 138.008 ms
Loss rate: 0.02%

Run 5: Report of Verus — Data Link

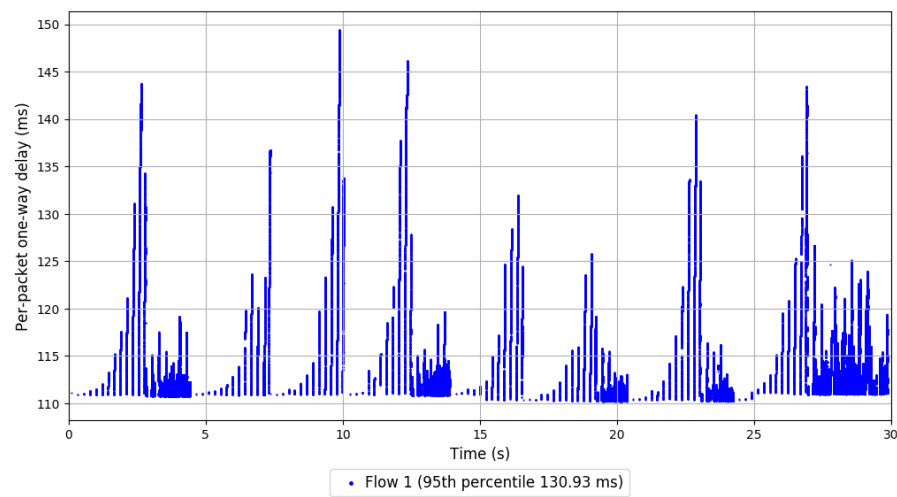
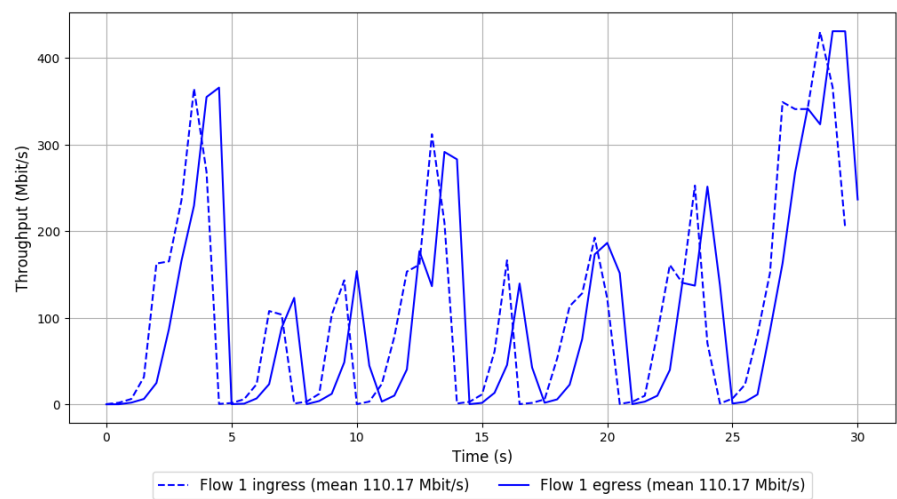


Run 6: Statistics of Verus

Start at: 2018-05-24 01:13:21
End at: 2018-05-24 01:13:51
Local clock offset: -14.925 ms
Remote clock offset: 13.961 ms

Below is generated by plot.py at 2018-05-24 04:02:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 110.17 Mbit/s
95th percentile per-packet one-way delay: 130.925 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 110.17 Mbit/s
95th percentile per-packet one-way delay: 130.925 ms
Loss rate: 0.00%

Run 6: Report of Verus — Data Link

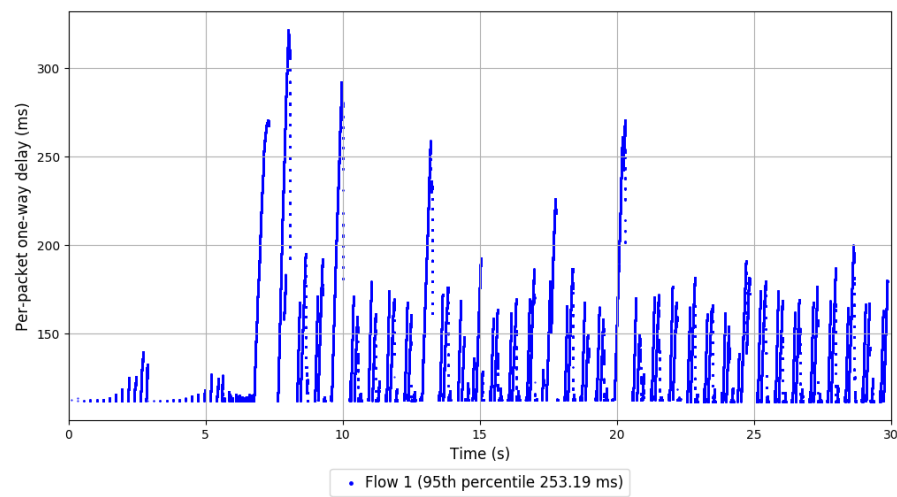
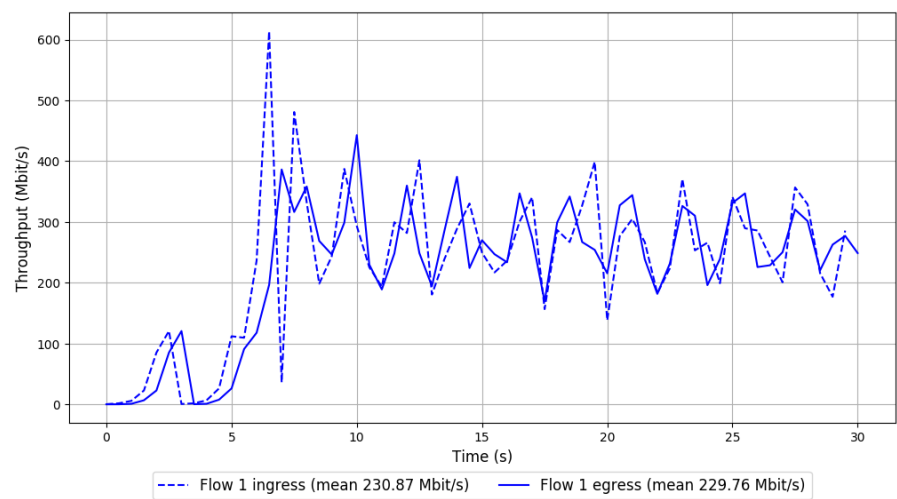


Run 7: Statistics of Verus

Start at: 2018-05-24 01:34:03
End at: 2018-05-24 01:34:33
Local clock offset: -11.658 ms
Remote clock offset: 10.712 ms

Below is generated by plot.py at 2018-05-24 04:03:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 229.76 Mbit/s
95th percentile per-packet one-way delay: 253.190 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 229.76 Mbit/s
95th percentile per-packet one-way delay: 253.190 ms
Loss rate: 0.48%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-05-24 01:55:09

End at: 2018-05-24 01:55:39

Local clock offset: -4.476 ms

Remote clock offset: 4.294 ms

Below is generated by plot.py at 2018-05-24 04:03:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 105.61 Mbit/s

95th percentile per-packet one-way delay: 127.973 ms

Loss rate: 0.00%

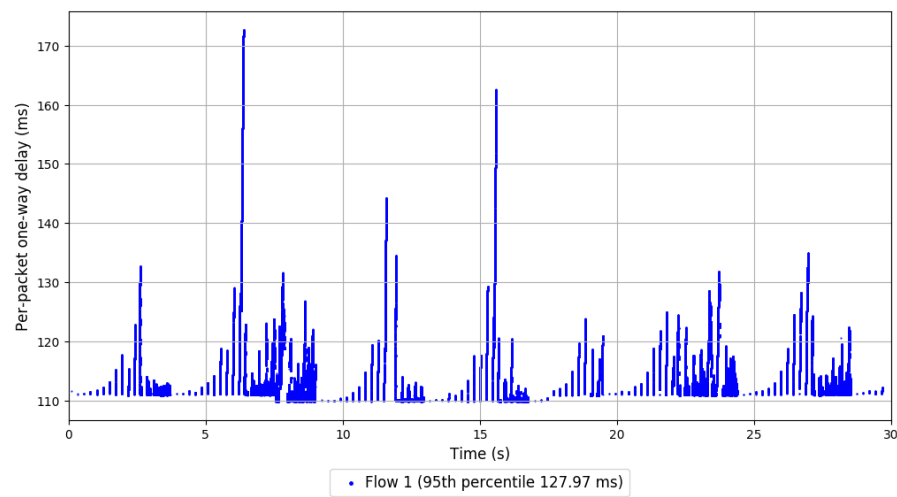
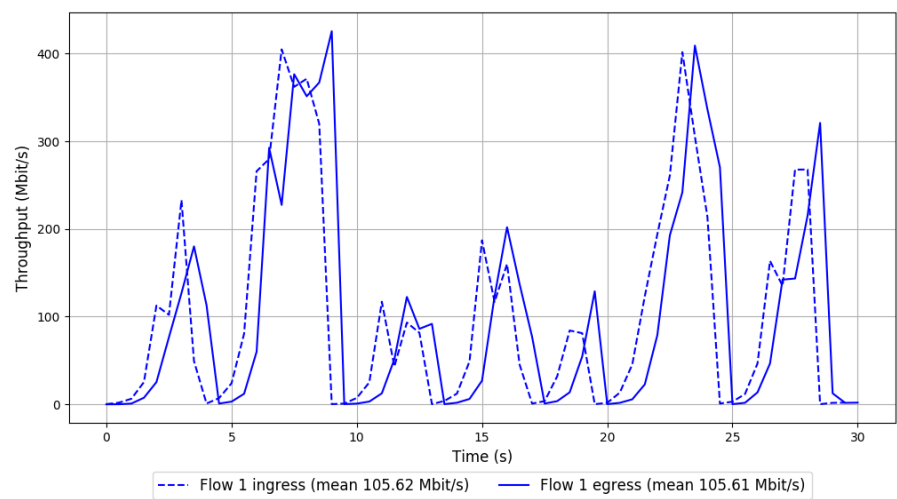
-- Flow 1:

Average throughput: 105.61 Mbit/s

95th percentile per-packet one-way delay: 127.973 ms

Loss rate: 0.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-05-24 02:15:59

End at: 2018-05-24 02:16:29

Local clock offset: -1.653 ms

Remote clock offset: 2.463 ms

Below is generated by plot.py at 2018-05-24 04:03:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 251.72 Mbit/s

95th percentile per-packet one-way delay: 150.129 ms

Loss rate: 0.00%

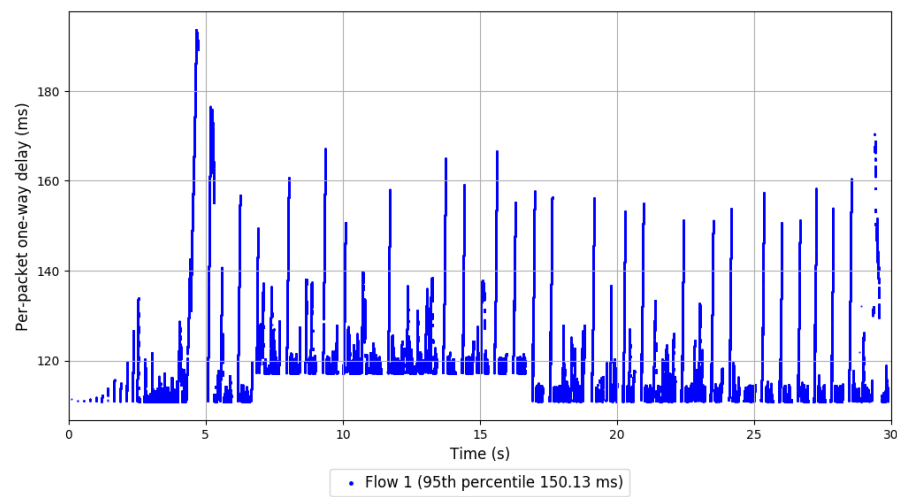
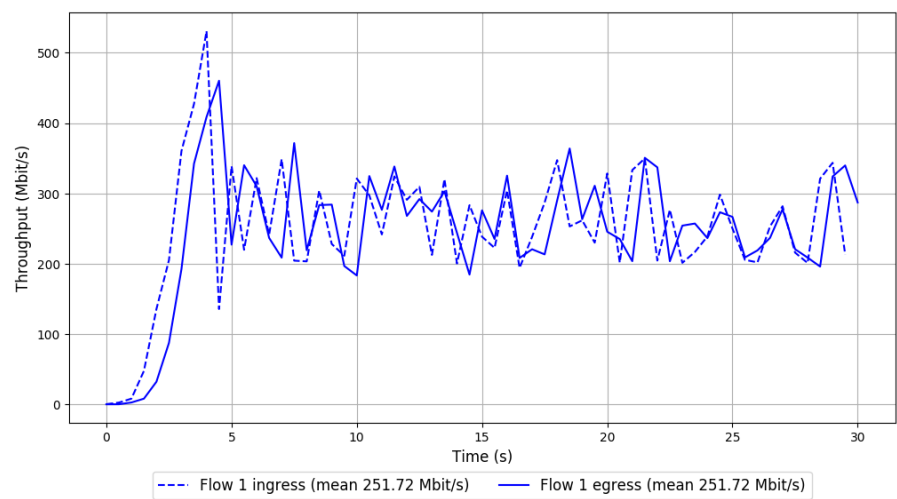
-- Flow 1:

Average throughput: 251.72 Mbit/s

95th percentile per-packet one-way delay: 150.129 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-05-24 02:36:23

End at: 2018-05-24 02:36:53

Local clock offset: -2.107 ms

Remote clock offset: 2.196 ms

Below is generated by plot.py at 2018-05-24 04:03:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 140.94 Mbit/s

95th percentile per-packet one-way delay: 134.758 ms

Loss rate: 0.05%

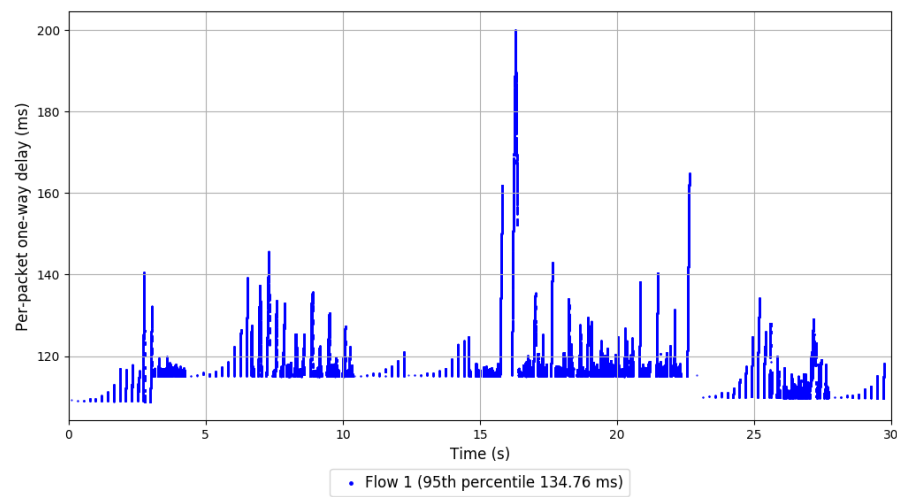
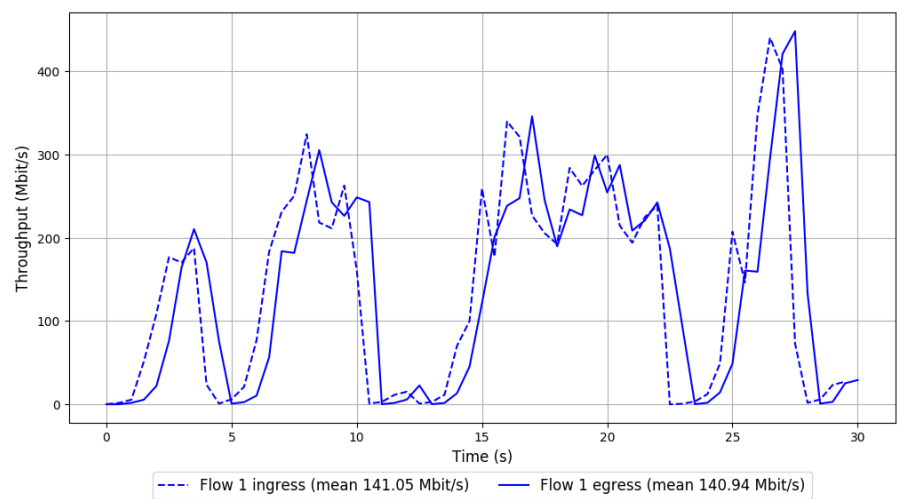
-- Flow 1:

Average throughput: 140.94 Mbit/s

95th percentile per-packet one-way delay: 134.758 ms

Loss rate: 0.05%

Run 10: Report of Verus — Data Link

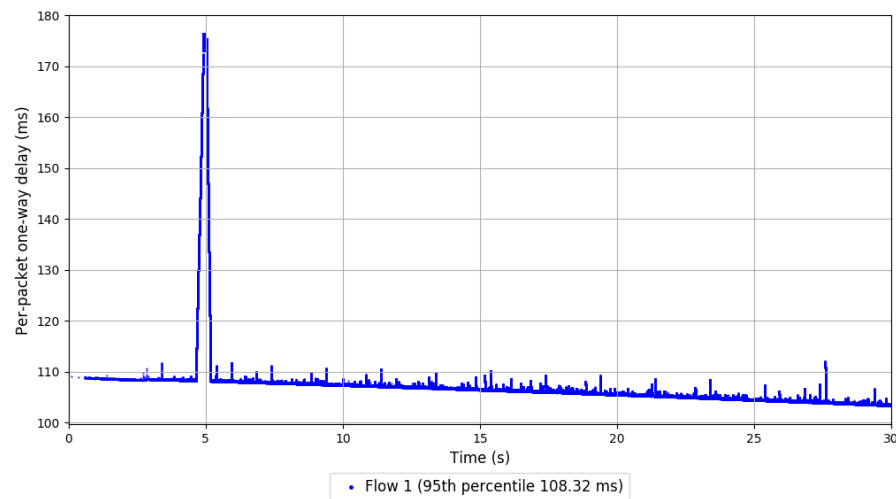
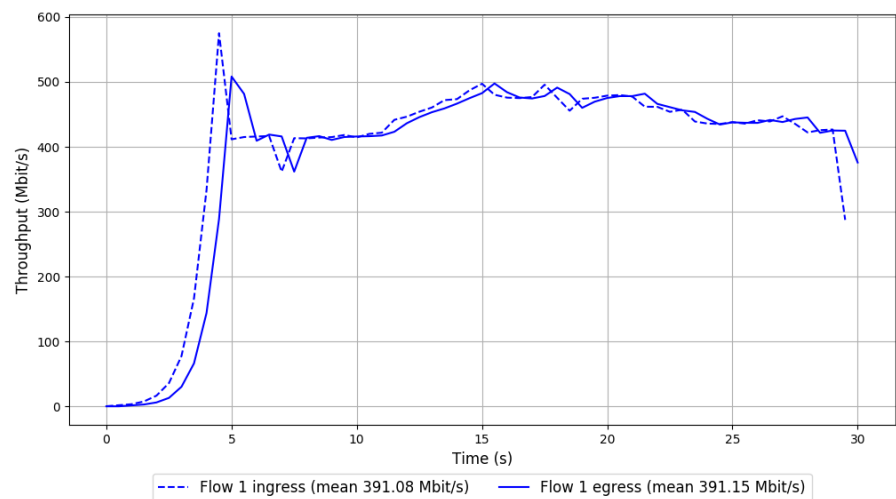


Run 1: Statistics of PCC-Vivace

Start at: 2018-05-23 23:34:43
End at: 2018-05-23 23:35:13
Local clock offset: -12.181 ms
Remote clock offset: 31.301 ms

Below is generated by plot.py at 2018-05-24 04:07:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 391.15 Mbit/s
95th percentile per-packet one-way delay: 108.320 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 391.15 Mbit/s
95th percentile per-packet one-way delay: 108.320 ms
Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link

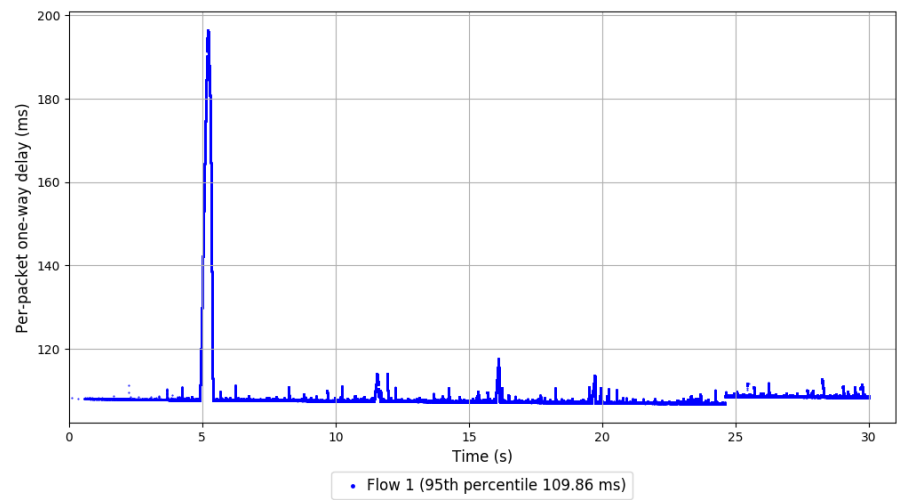
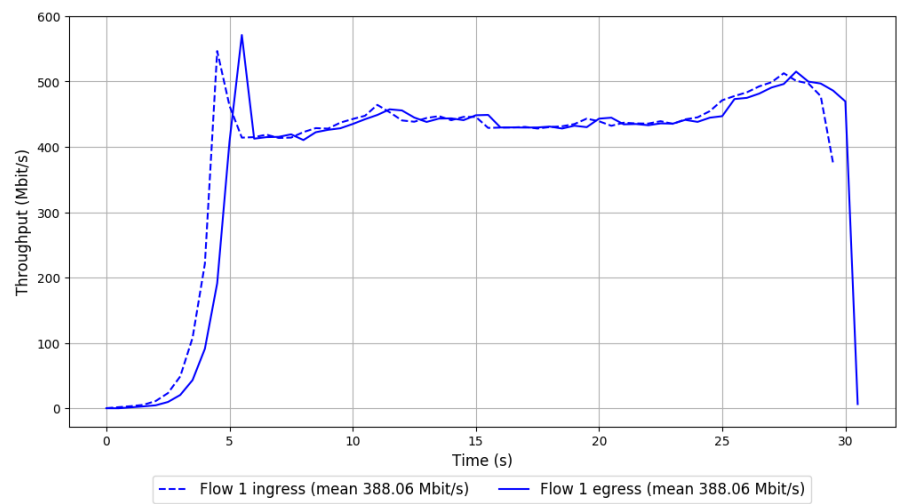


Run 2: Statistics of PCC-Vivace

Start at: 2018-05-23 23:54:59
End at: 2018-05-23 23:55:29
Local clock offset: -32.173 ms
Remote clock offset: 33.29 ms

Below is generated by plot.py at 2018-05-24 04:07:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 388.06 Mbit/s
95th percentile per-packet one-way delay: 109.864 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 388.06 Mbit/s
95th percentile per-packet one-way delay: 109.864 ms
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link

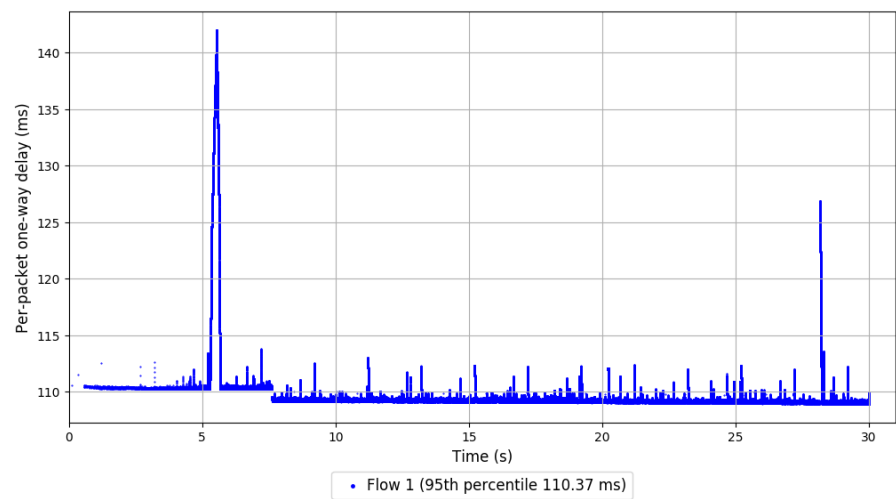
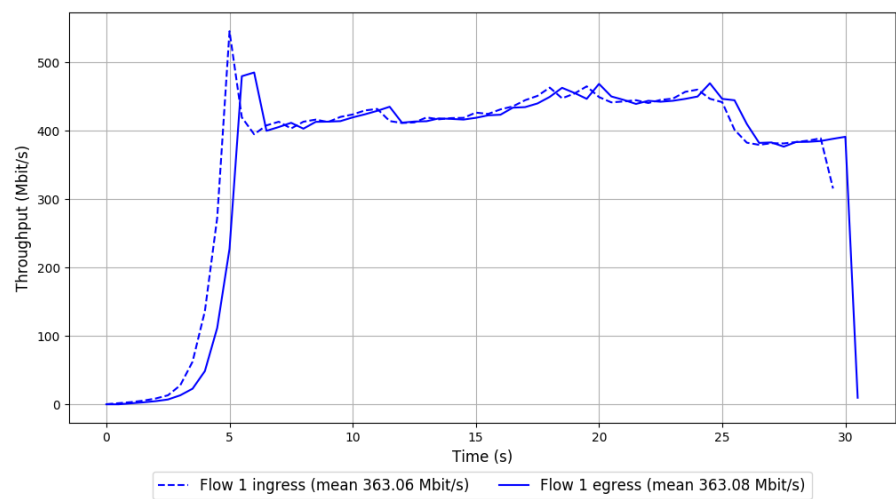


Run 3: Statistics of PCC-Vivace

Start at: 2018-05-24 00:15:16
End at: 2018-05-24 00:15:46
Local clock offset: -21.862 ms
Remote clock offset: 25.269 ms

Below is generated by plot.py at 2018-05-24 04:07:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 363.08 Mbit/s
95th percentile per-packet one-way delay: 110.369 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 363.08 Mbit/s
95th percentile per-packet one-way delay: 110.369 ms
Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link

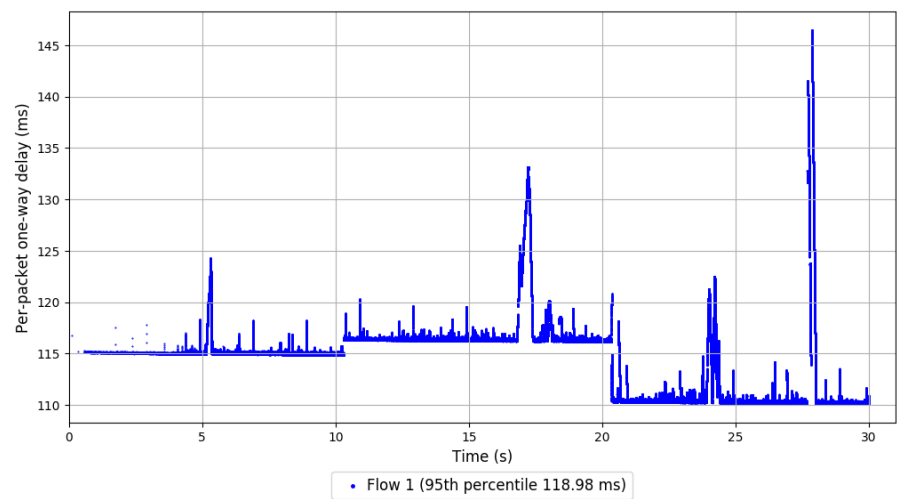
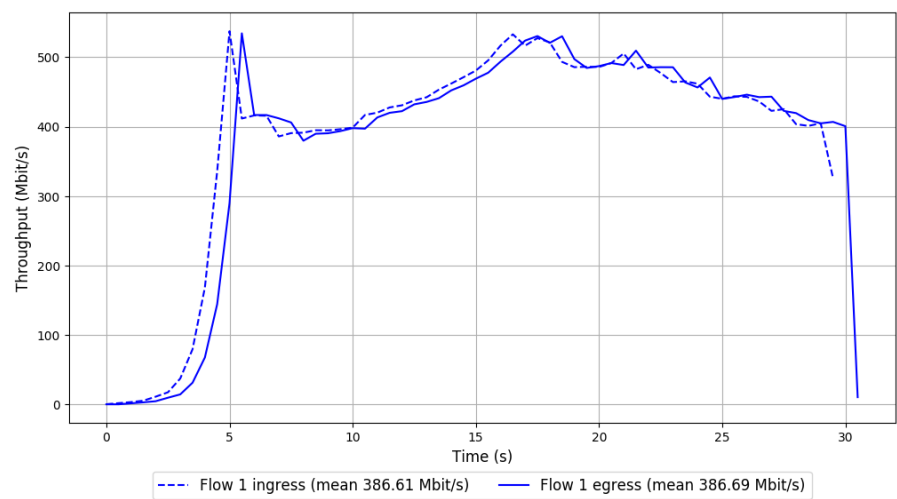


Run 4: Statistics of PCC-Vivace

Start at: 2018-05-24 00:35:46
End at: 2018-05-24 00:36:16
Local clock offset: -22.373 ms
Remote clock offset: 25.129 ms

Below is generated by plot.py at 2018-05-24 04:08:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 386.69 Mbit/s
95th percentile per-packet one-way delay: 118.977 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 386.69 Mbit/s
95th percentile per-packet one-way delay: 118.977 ms
Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link

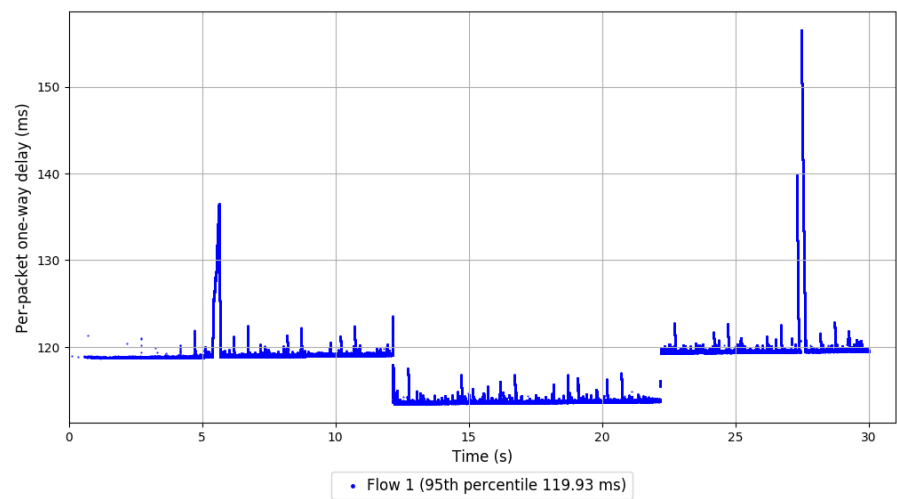
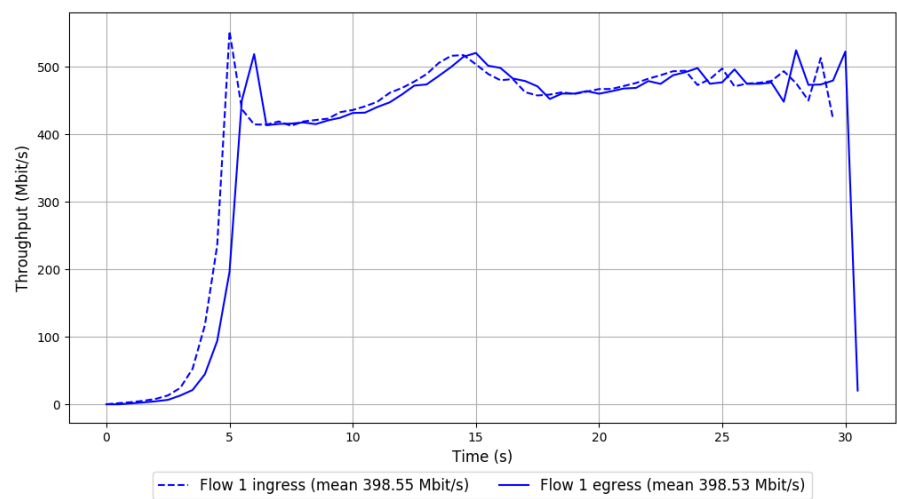


Run 5: Statistics of PCC-Vivace

Start at: 2018-05-24 00:56:14
End at: 2018-05-24 00:56:44
Local clock offset: -33.854 ms
Remote clock offset: 46.686 ms

Below is generated by plot.py at 2018-05-24 04:08:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 398.53 Mbit/s
95th percentile per-packet one-way delay: 119.927 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 398.53 Mbit/s
95th percentile per-packet one-way delay: 119.927 ms
Loss rate: 0.02%

Run 5: Report of PCC-Vivace — Data Link

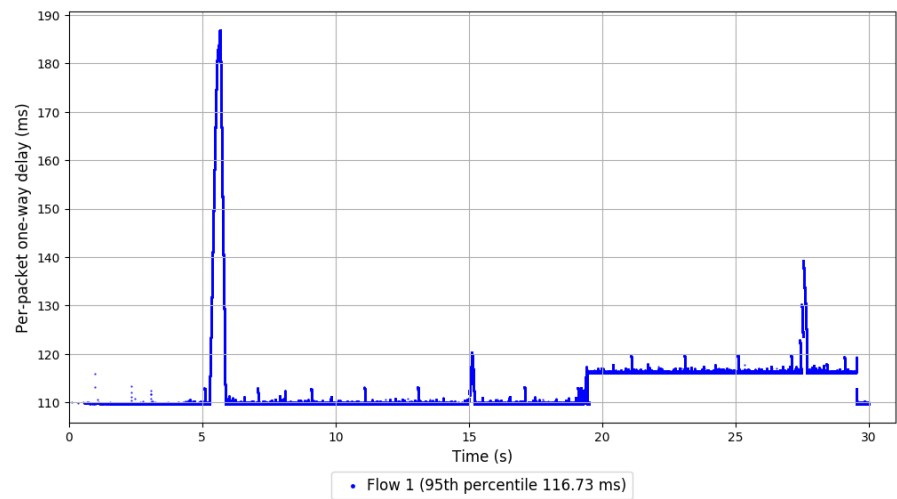
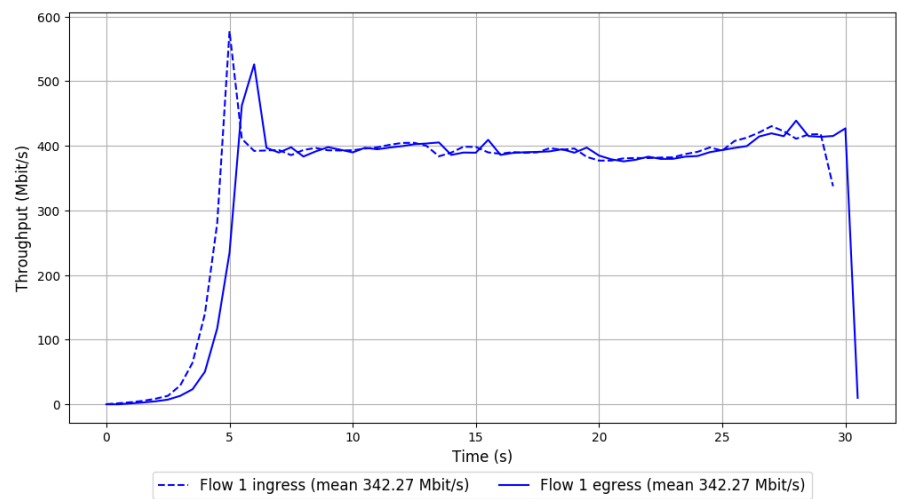


Run 6: Statistics of PCC-Vivace

Start at: 2018-05-24 01:17:04
End at: 2018-05-24 01:17:34
Local clock offset: -15.625 ms
Remote clock offset: 11.37 ms

Below is generated by plot.py at 2018-05-24 04:08:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 342.27 Mbit/s
95th percentile per-packet one-way delay: 116.735 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 342.27 Mbit/s
95th percentile per-packet one-way delay: 116.735 ms
Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-05-24 01:37:52

End at: 2018-05-24 01:38:22

Local clock offset: -7.978 ms

Remote clock offset: 7.463 ms

Below is generated by plot.py at 2018-05-24 04:09:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 387.62 Mbit/s

95th percentile per-packet one-way delay: 114.064 ms

Loss rate: 0.00%

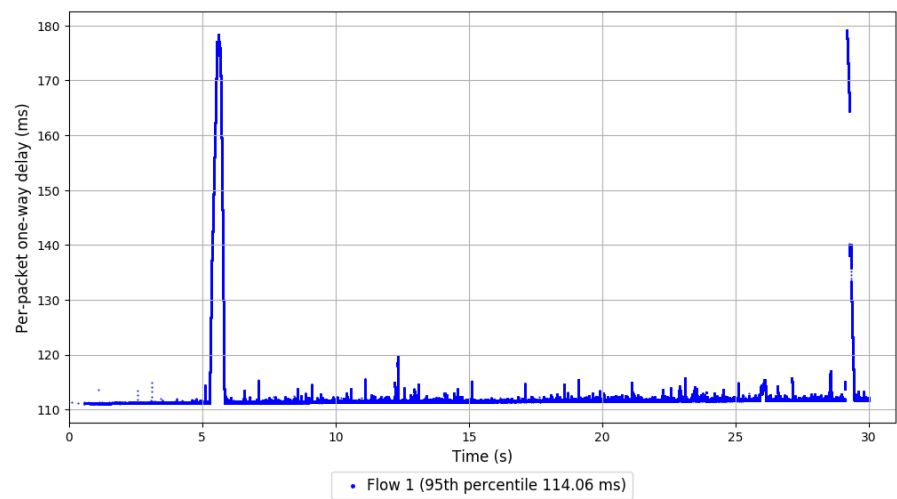
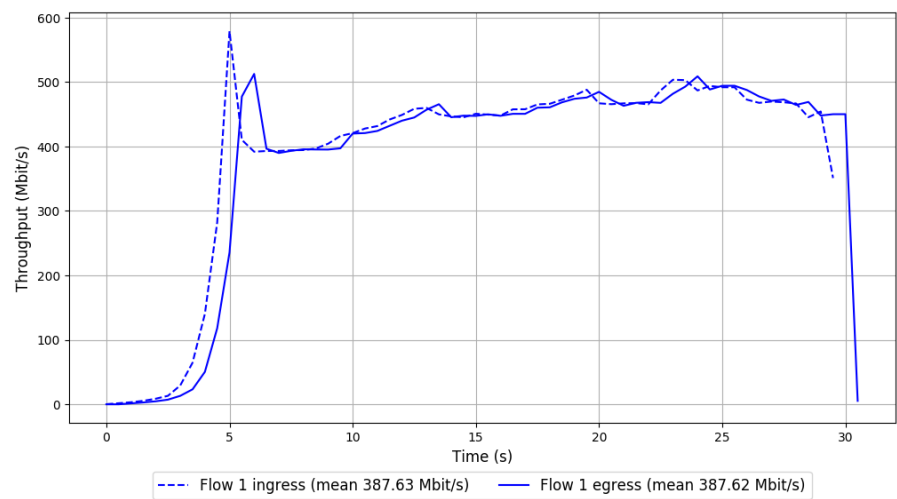
-- Flow 1:

Average throughput: 387.62 Mbit/s

95th percentile per-packet one-way delay: 114.064 ms

Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-05-24 01:59:00

End at: 2018-05-24 01:59:30

Local clock offset: -4.59 ms

Remote clock offset: 4.605 ms

Below is generated by plot.py at 2018-05-24 04:09:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 379.99 Mbit/s

95th percentile per-packet one-way delay: 120.812 ms

Loss rate: 0.01%

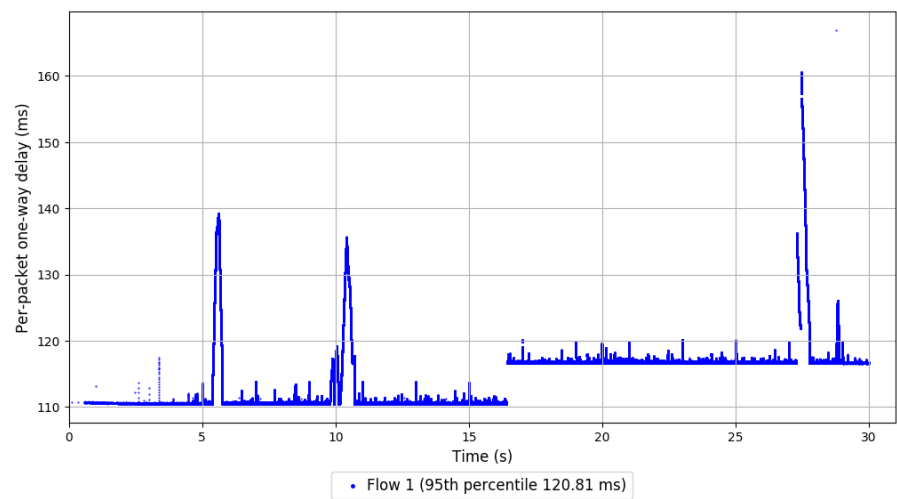
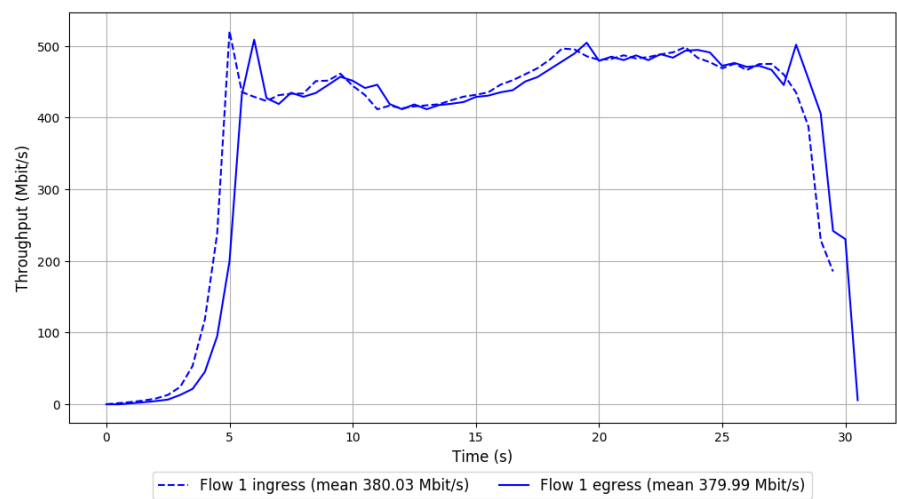
-- Flow 1:

Average throughput: 379.99 Mbit/s

95th percentile per-packet one-way delay: 120.812 ms

Loss rate: 0.01%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-05-24 02:19:48

End at: 2018-05-24 02:20:18

Local clock offset: -1.595 ms

Remote clock offset: 1.983 ms

Below is generated by plot.py at 2018-05-24 04:10:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 367.06 Mbit/s

95th percentile per-packet one-way delay: 112.758 ms

Loss rate: 0.00%

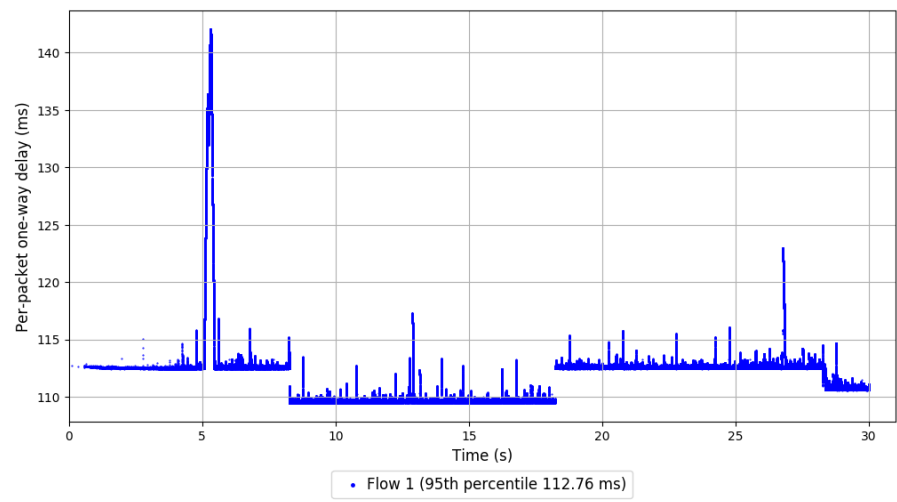
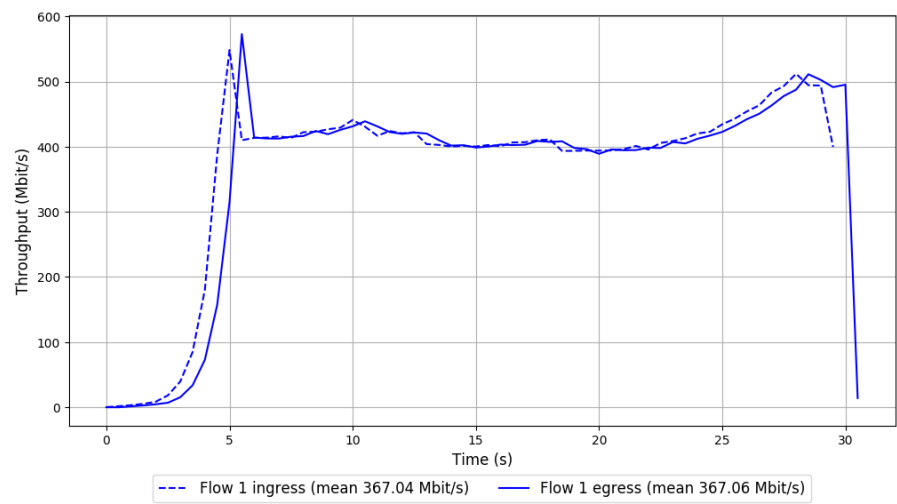
-- Flow 1:

Average throughput: 367.06 Mbit/s

95th percentile per-packet one-way delay: 112.758 ms

Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-05-24 02:40:05

End at: 2018-05-24 02:40:35

Local clock offset: -1.478 ms

Remote clock offset: 2.476 ms

Below is generated by plot.py at 2018-05-24 04:10:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 367.74 Mbit/s

95th percentile per-packet one-way delay: 116.271 ms

Loss rate: 0.02%

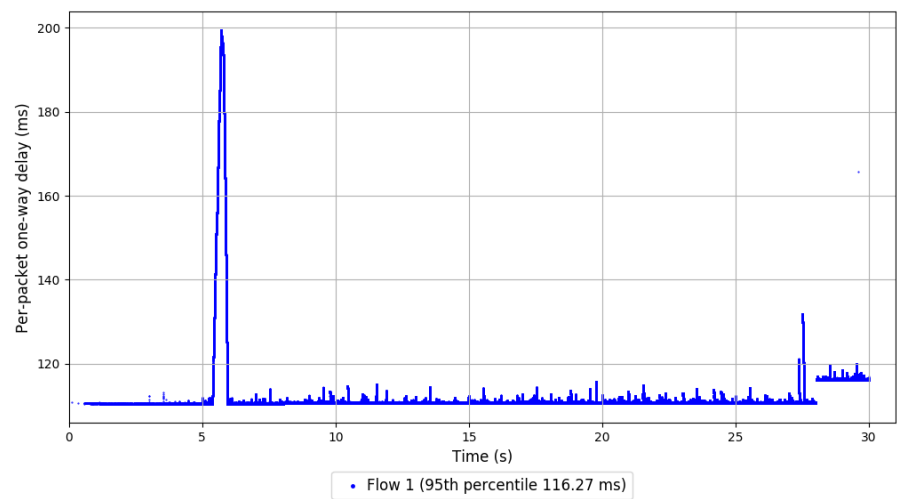
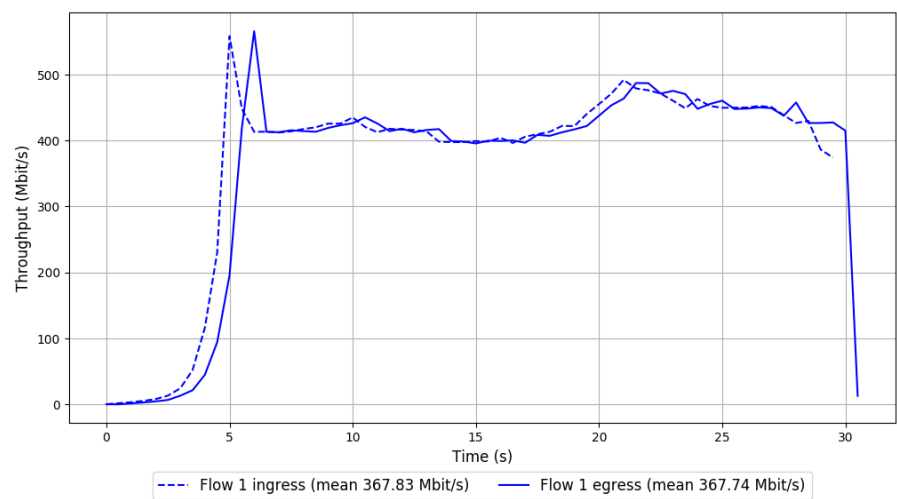
-- Flow 1:

Average throughput: 367.74 Mbit/s

95th percentile per-packet one-way delay: 116.271 ms

Loss rate: 0.02%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

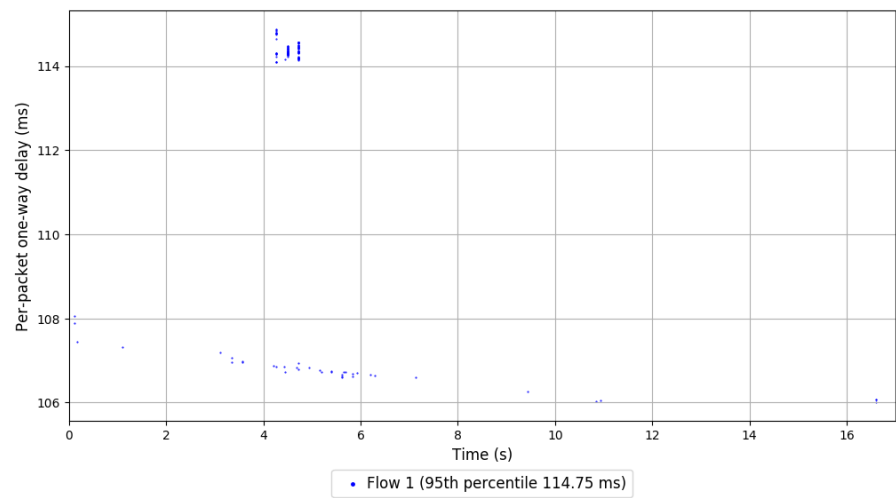
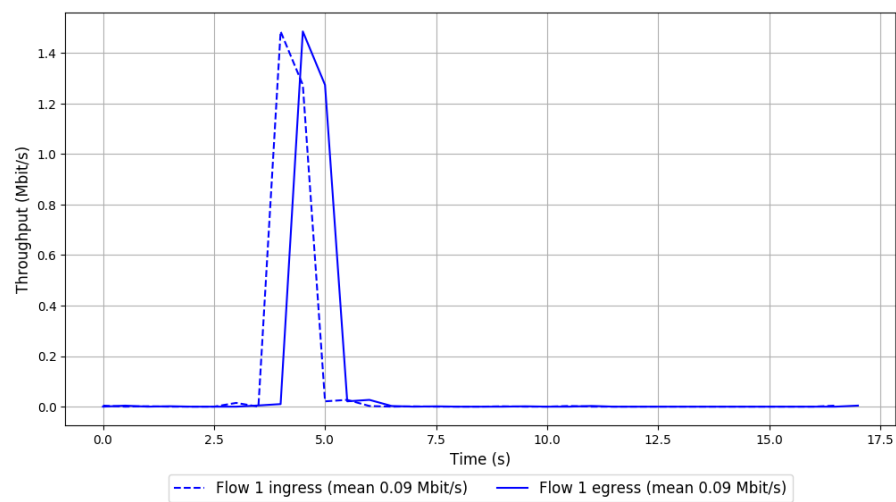
Start at: 2018-05-23 23:41:01

End at: 2018-05-23 23:41:31

Local clock offset: -18.994 ms

Remote clock offset: 26.867 ms

Run 1: Report of WebRTC media — Data Link

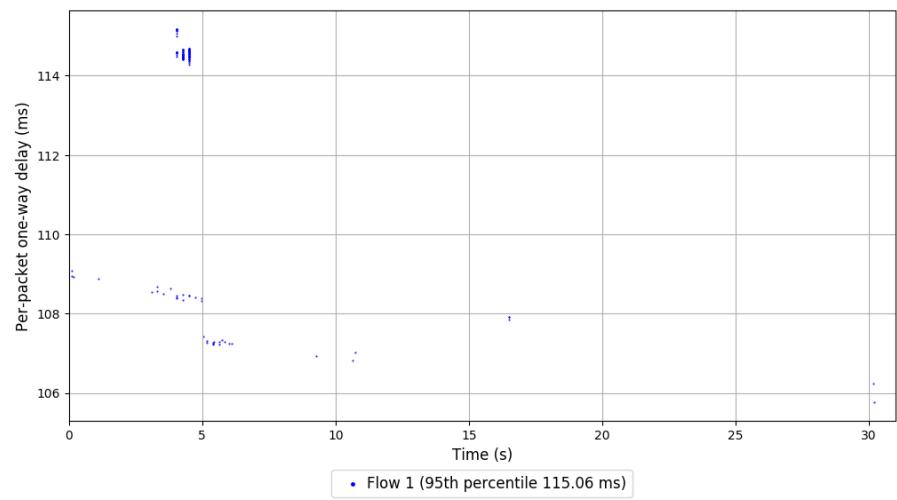
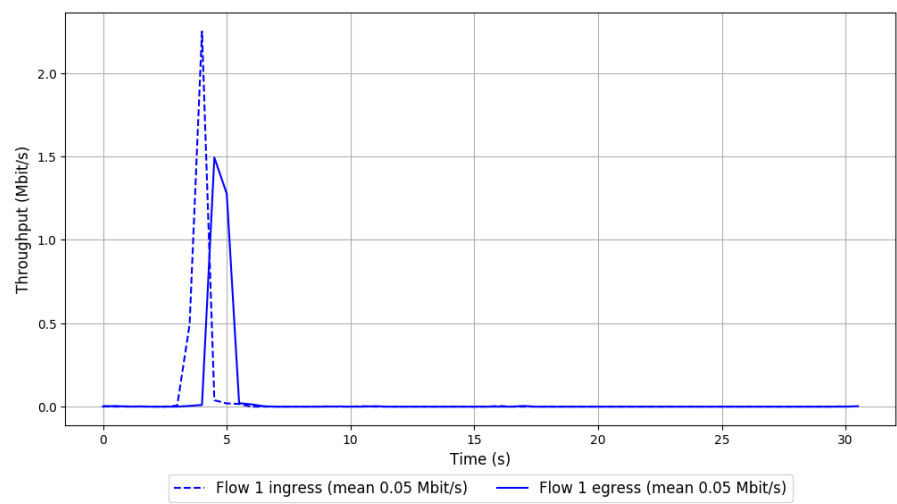


Run 2: Statistics of WebRTC media

Start at: 2018-05-24 00:01:24
End at: 2018-05-24 00:01:54
Local clock offset: -48.168 ms
Remote clock offset: 46.747 ms

Below is generated by plot.py at 2018-05-24 04:10:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 115.060 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 115.060 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

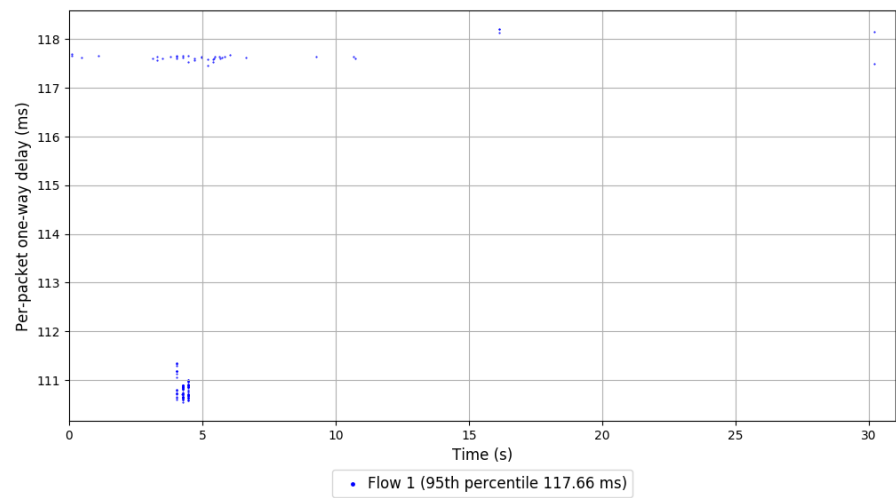
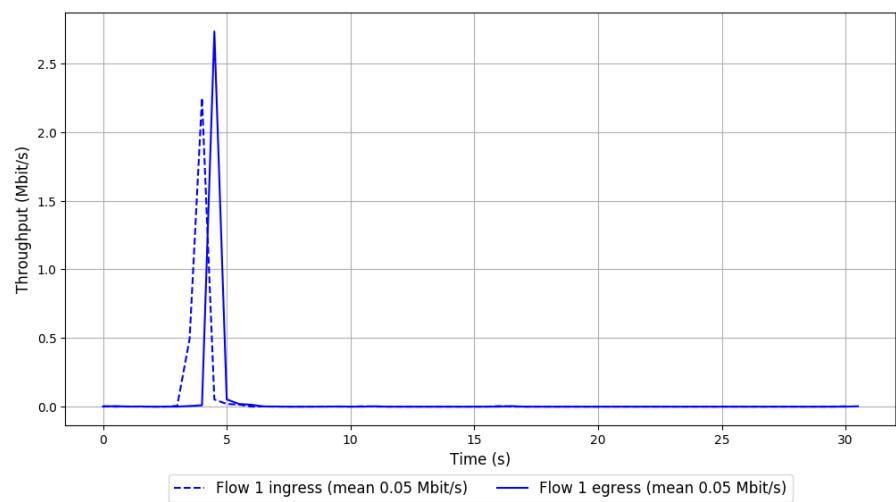


Run 3: Statistics of WebRTC media

Start at: 2018-05-24 00:21:39
End at: 2018-05-24 00:22:09
Local clock offset: -25.149 ms
Remote clock offset: 29.725 ms

Below is generated by plot.py at 2018-05-24 04:10:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 117.655 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 117.655 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

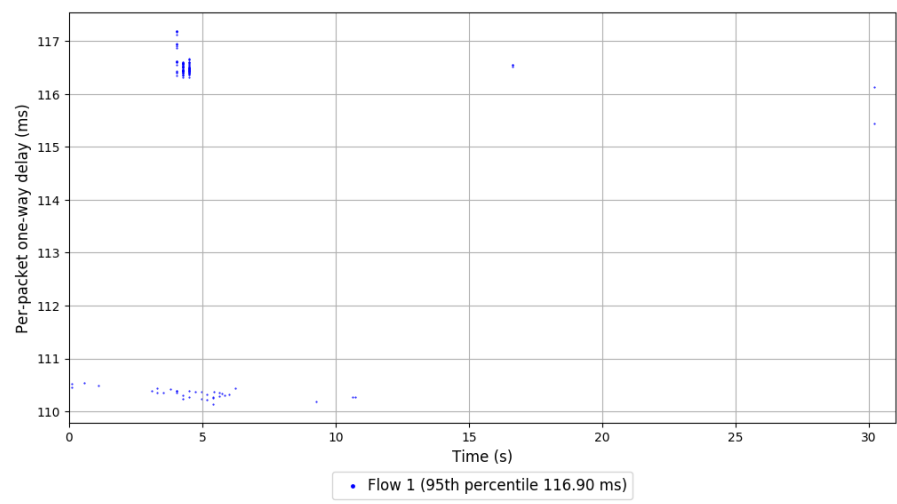
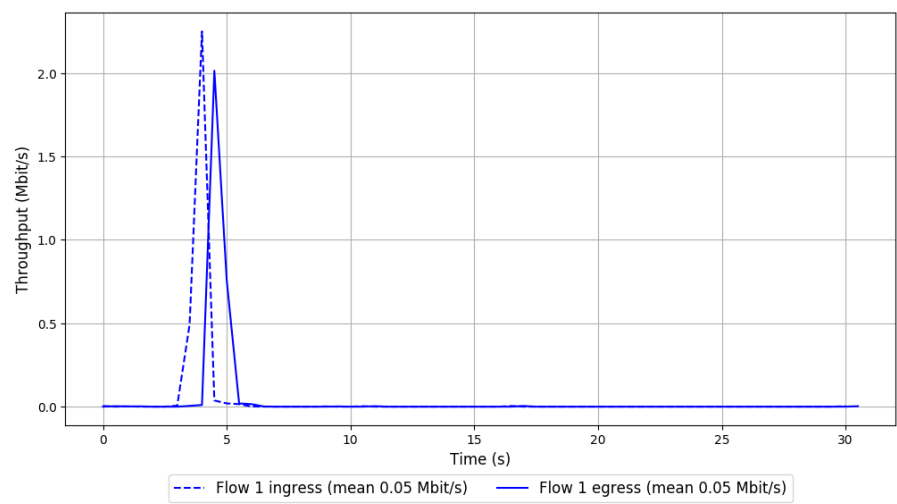


Run 4: Statistics of WebRTC media

Start at: 2018-05-24 00:42:10
End at: 2018-05-24 00:42:40
Local clock offset: -26.931 ms
Remote clock offset: 29.367 ms

Below is generated by plot.py at 2018-05-24 04:10:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 116.904 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 116.904 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

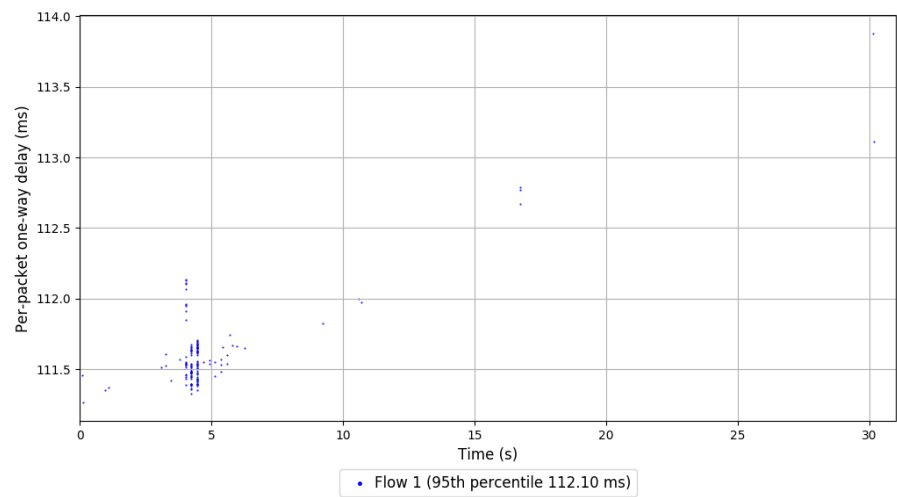
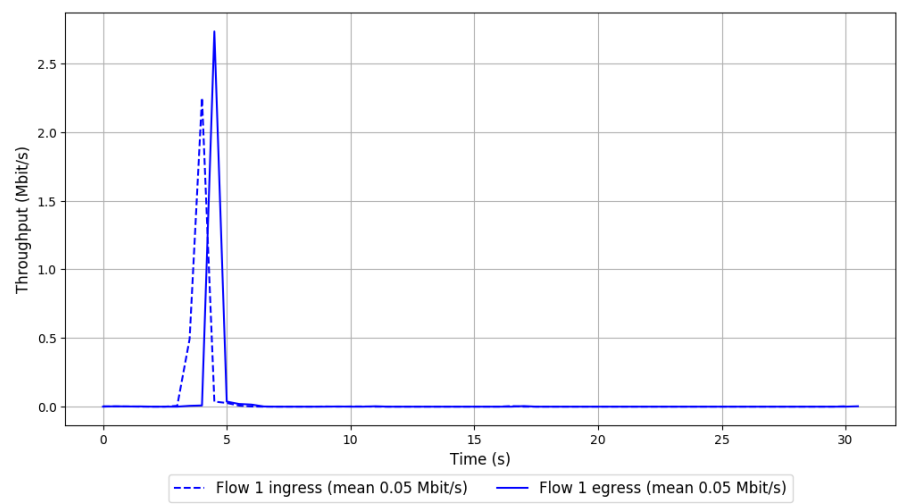


Run 5: Statistics of WebRTC media

Start at: 2018-05-24 01:02:41
End at: 2018-05-24 01:03:11
Local clock offset: -19.721 ms
Remote clock offset: 31.626 ms

Below is generated by plot.py at 2018-05-24 04:10:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 112.102 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 112.102 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

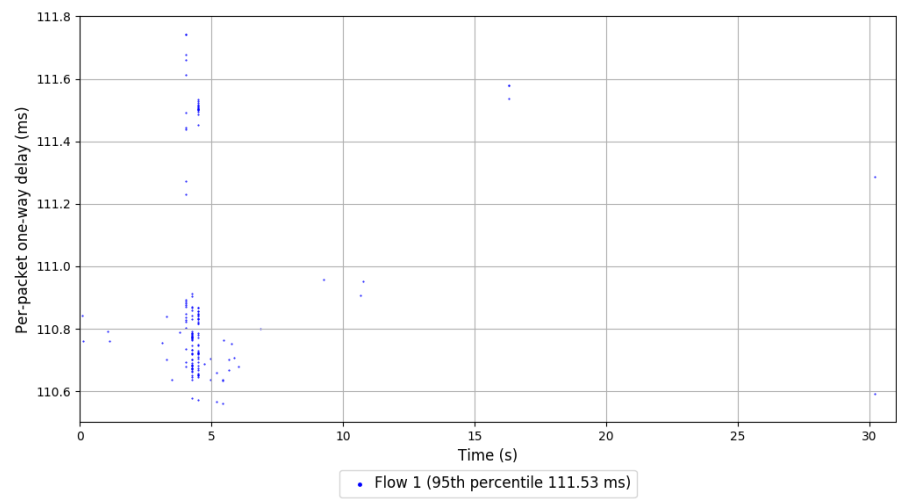
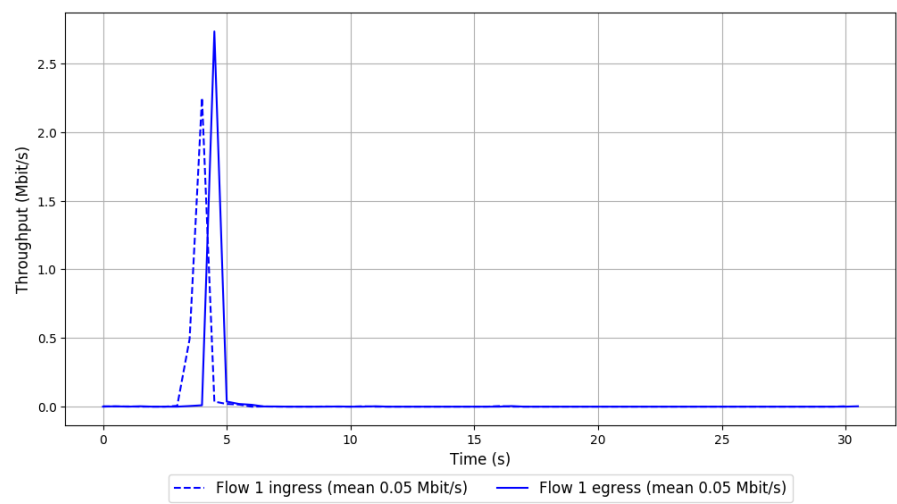


Run 6: Statistics of WebRTC media

Start at: 2018-05-24 01:23:31
End at: 2018-05-24 01:24:01
Local clock offset: -17.99 ms
Remote clock offset: 11.341 ms

Below is generated by plot.py at 2018-05-24 04:10:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 111.534 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 111.534 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-05-24 01:44:19

End at: 2018-05-24 01:44:49

Local clock offset: -5.341 ms

Remote clock offset: 5.276 ms

Below is generated by plot.py at 2018-05-24 04:10:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 112.234 ms

Loss rate: 0.00%

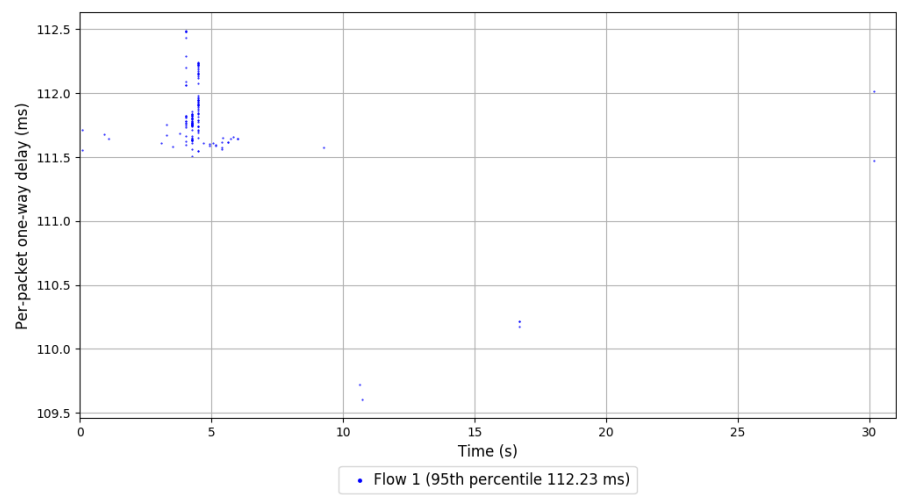
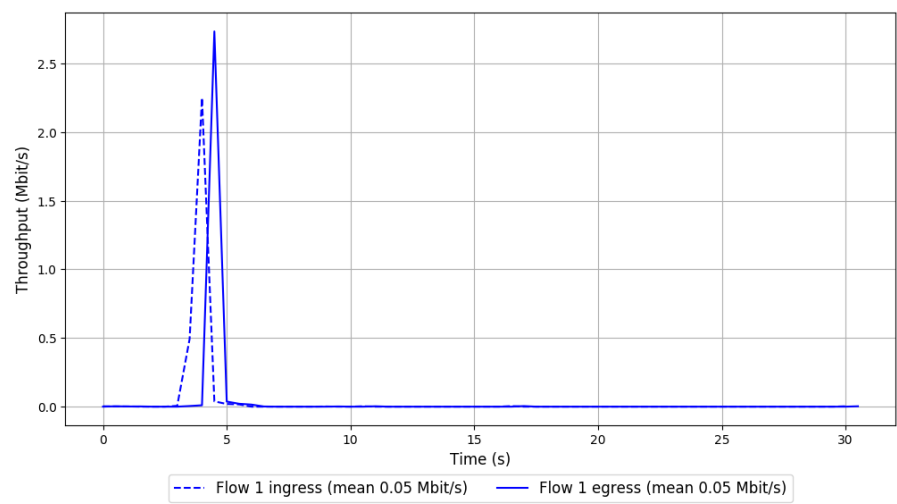
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 112.234 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-05-24 02:05:25

End at: 2018-05-24 02:05:55

Local clock offset: -3.799 ms

Remote clock offset: 4.928 ms

Below is generated by plot.py at 2018-05-24 04:10:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 117.545 ms

Loss rate: 0.00%

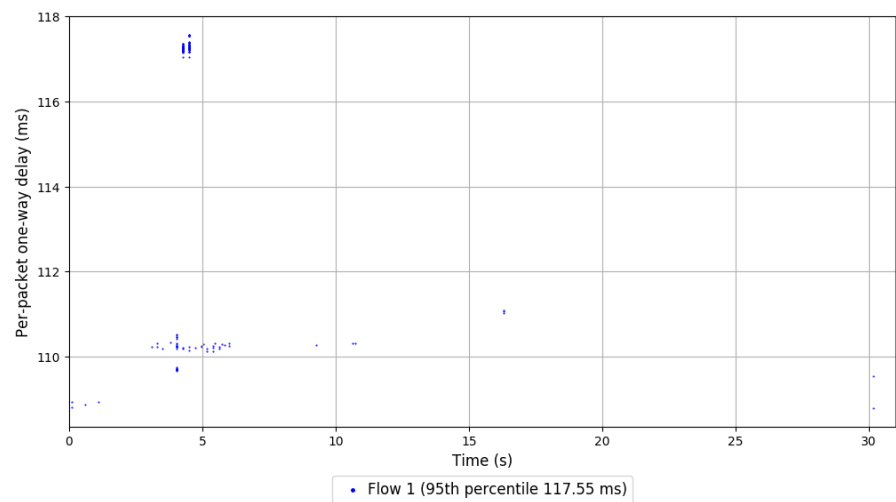
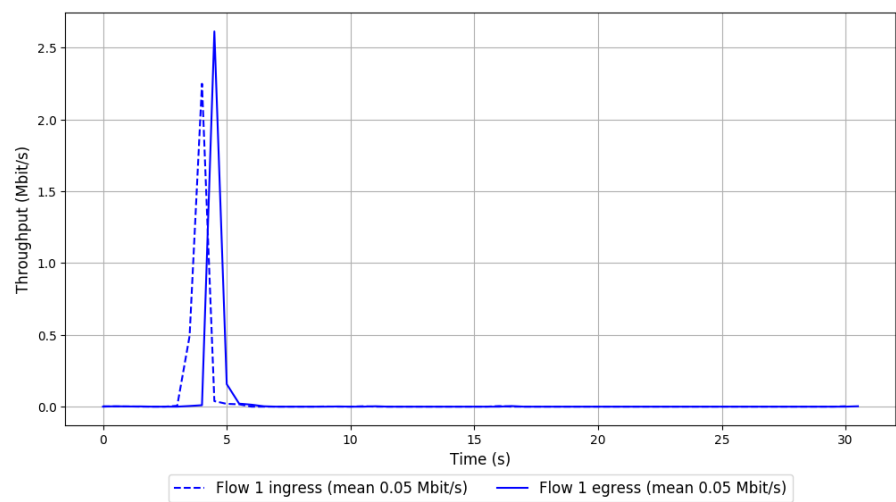
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 117.545 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-05-24 02:26:12

End at: 2018-05-24 02:26:42

Local clock offset: -1.802 ms

Remote clock offset: 1.511 ms

Below is generated by plot.py at 2018-05-24 04:10:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 117.824 ms

Loss rate: 0.00%

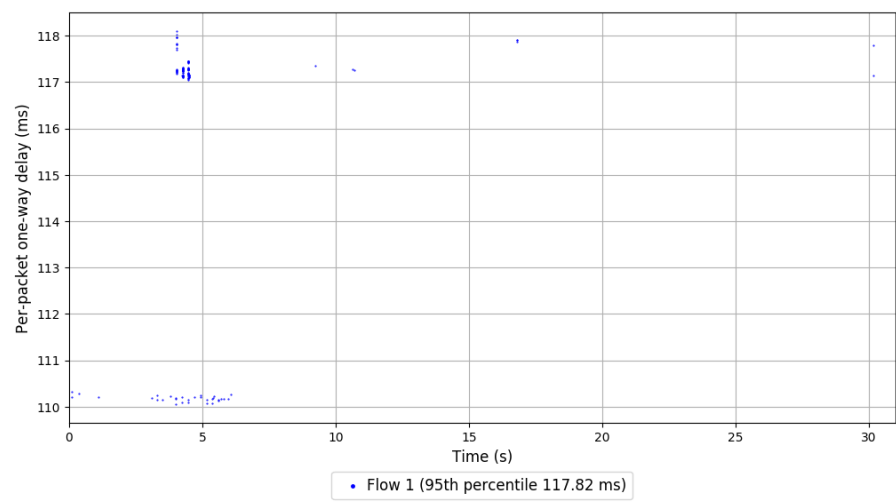
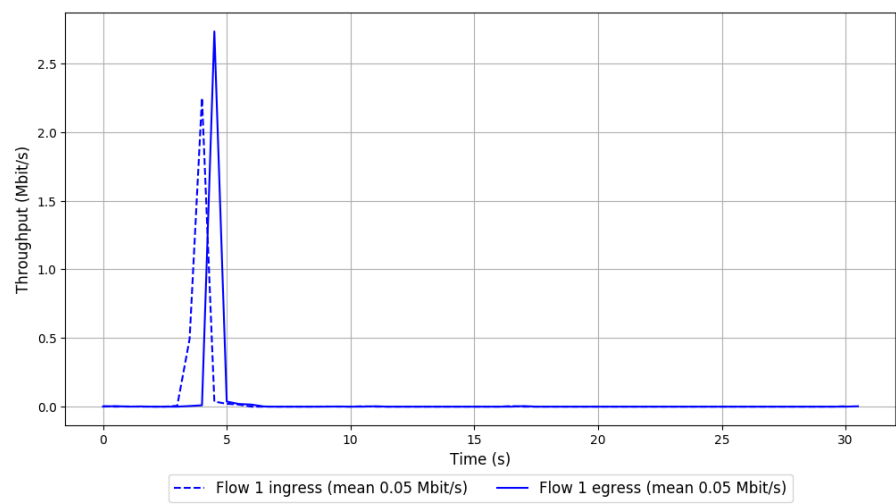
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 117.824 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-24 02:46:31

End at: 2018-05-24 02:47:01

Local clock offset: -0.996 ms

Remote clock offset: 1.437 ms

Below is generated by plot.py at 2018-05-24 04:10:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 115.876 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 115.876 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

