

Pantheon Report

Generated at 2018-05-22 01:55:25 (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.

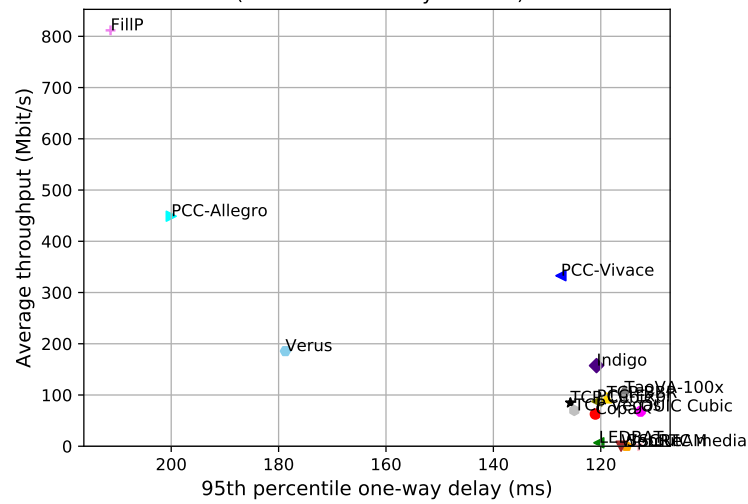
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

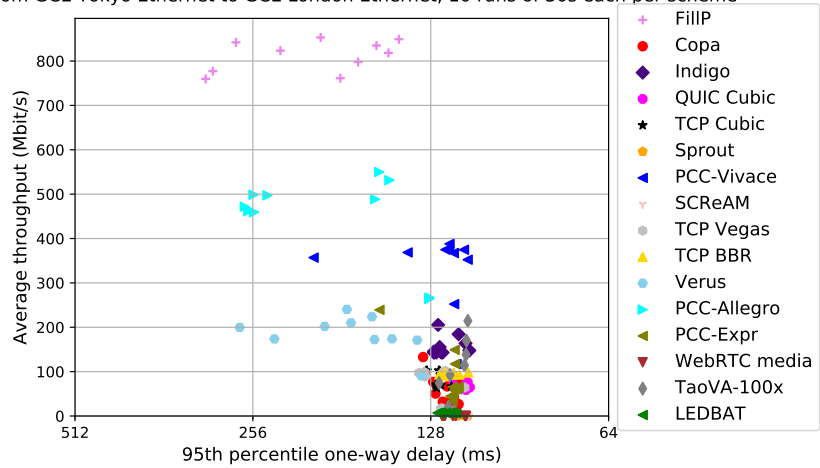
Git summary:

```
branch: master @ 2d1d4407e851ba626e5ca4626a306105793df686
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
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 Ethernet to GCE London Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



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



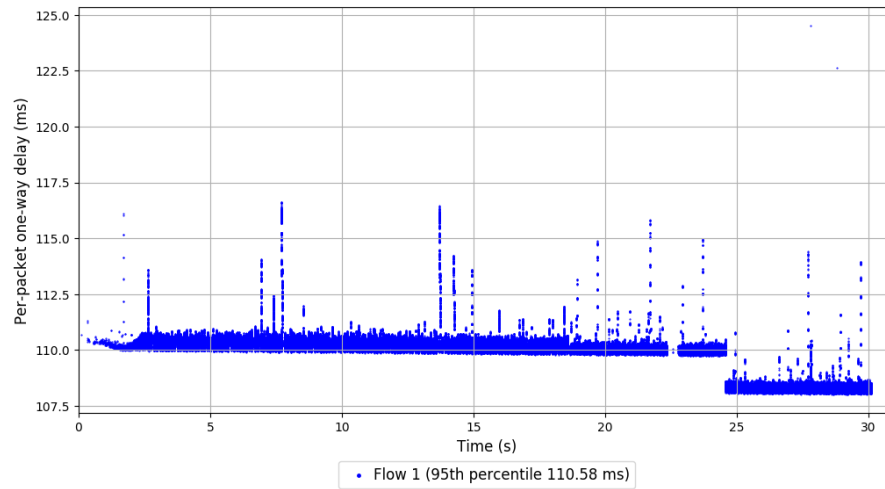
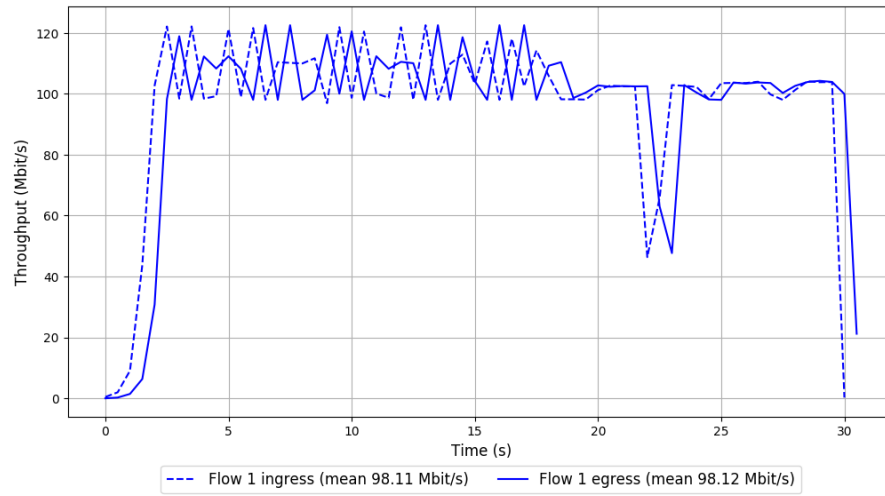
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	94.41	118.89	0.01
Copa	10	62.84	121.00	0.02
TCP Cubic	10	84.76	125.65	0.01
FillP	10	811.69	211.30	1.53
Indigo	10	157.36	120.79	0.01
LEDBAT	10	6.71	120.36	0.04
PCC-Allegro	10	448.93	199.99	1.61
PCC-Expr	10	87.34	120.77	0.01
QUIC Cubic	10	67.93	112.60	0.00
SCReAM	10	0.20	112.98	0.00
Sprout	10	0.20	115.19	0.00
TaoVA-100x	8	104.17	115.59	0.00
TCP Vegas	10	69.87	124.94	0.02
Verus	10	185.65	178.74	0.23
PCC-Vivace	10	332.81	127.43	0.01
WebRTC media	10	0.05	116.22	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-05-21 21:36:51
End at: 2018-05-21 21:37:21
Local clock offset: 14.621 ms
Remote clock offset: -0.061 ms

Below is generated by plot.py at 2018-05-22 01:00:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 98.12 Mbit/s
95th percentile per-packet one-way delay: 110.582 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 98.12 Mbit/s
95th percentile per-packet one-way delay: 110.582 ms
Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-05-21 21:57:18

End at: 2018-05-21 21:57:48

Local clock offset: 18.239 ms

Remote clock offset: 0.17 ms

Below is generated by plot.py at 2018-05-22 01:00:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.39 Mbit/s

95th percentile per-packet one-way delay: 117.104 ms

Loss rate: 0.00%

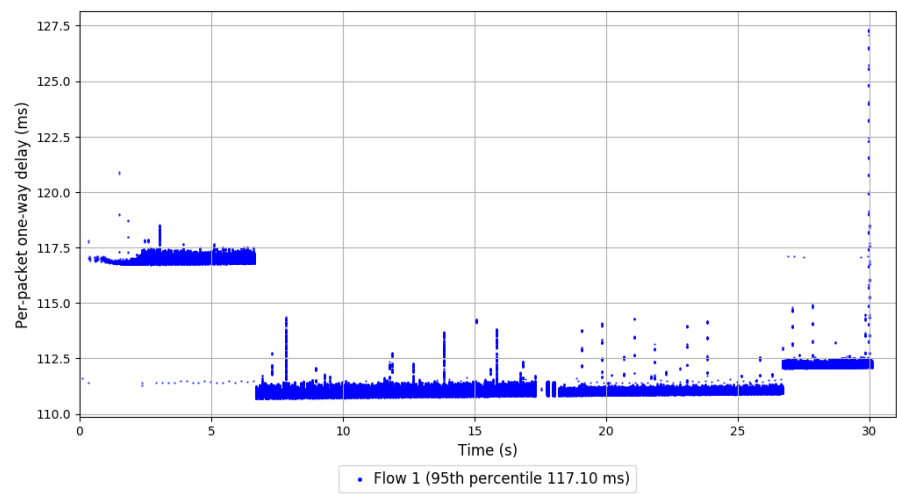
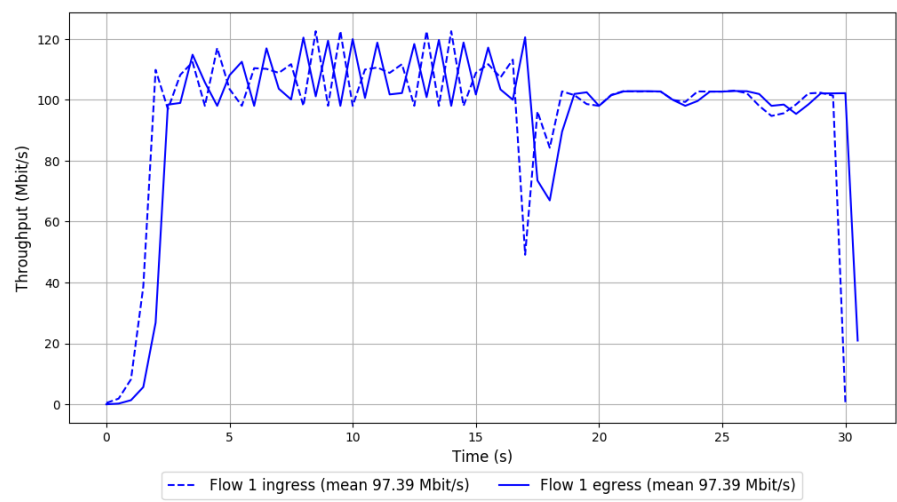
-- Flow 1:

Average throughput: 97.39 Mbit/s

95th percentile per-packet one-way delay: 117.104 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-05-21 22:18:11

End at: 2018-05-21 22:18:41

Local clock offset: 12.053 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-05-22 01:00:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.33 Mbit/s

95th percentile per-packet one-way delay: 114.459 ms

Loss rate: 0.02%

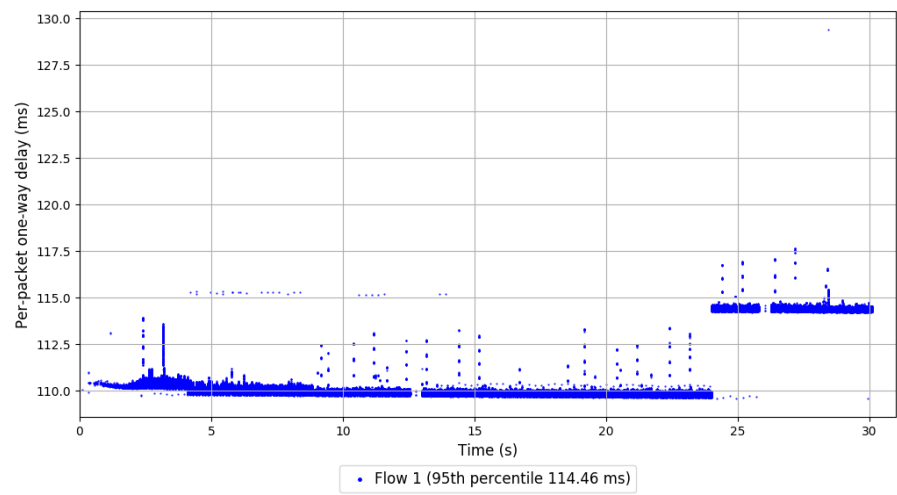
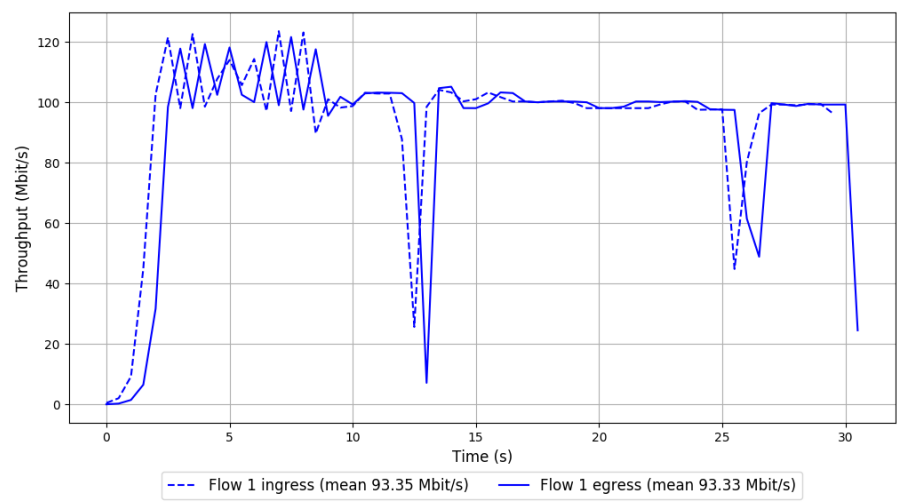
-- Flow 1:

Average throughput: 93.33 Mbit/s

95th percentile per-packet one-way delay: 114.459 ms

Loss rate: 0.02%

Run 3: Report of TCP BBR — Data Link

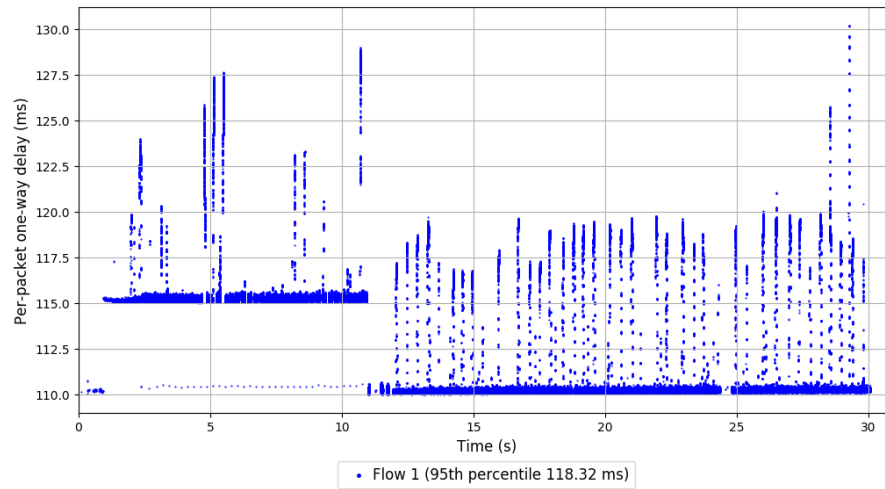
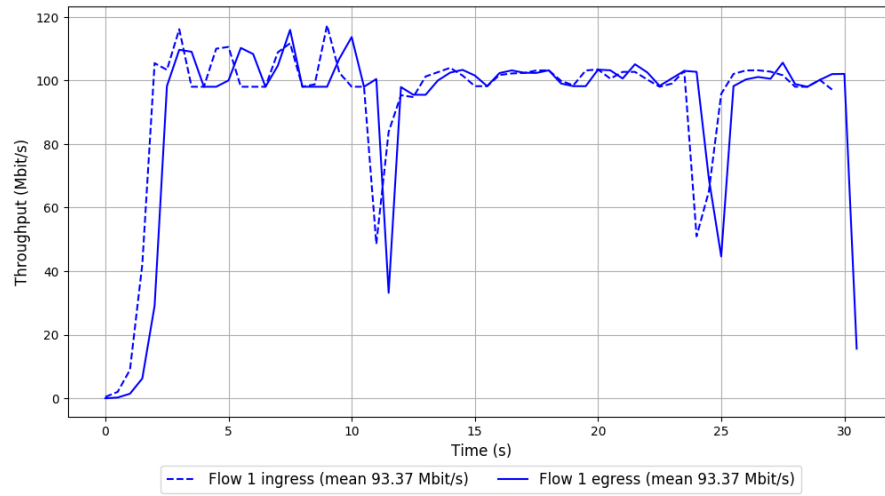


Run 4: Statistics of TCP BBR

Start at: 2018-05-21 22:38:44
End at: 2018-05-21 22:39:14
Local clock offset: 11.896 ms
Remote clock offset: -0.352 ms

Below is generated by plot.py at 2018-05-22 01:00:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.37 Mbit/s
95th percentile per-packet one-way delay: 118.322 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 93.37 Mbit/s
95th percentile per-packet one-way delay: 118.322 ms
Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-05-21 22:59:00

End at: 2018-05-21 22:59:30

Local clock offset: 3.483 ms

Remote clock offset: 0.329 ms

Below is generated by plot.py at 2018-05-22 01:00:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.40 Mbit/s

95th percentile per-packet one-way delay: 121.472 ms

Loss rate: 0.02%

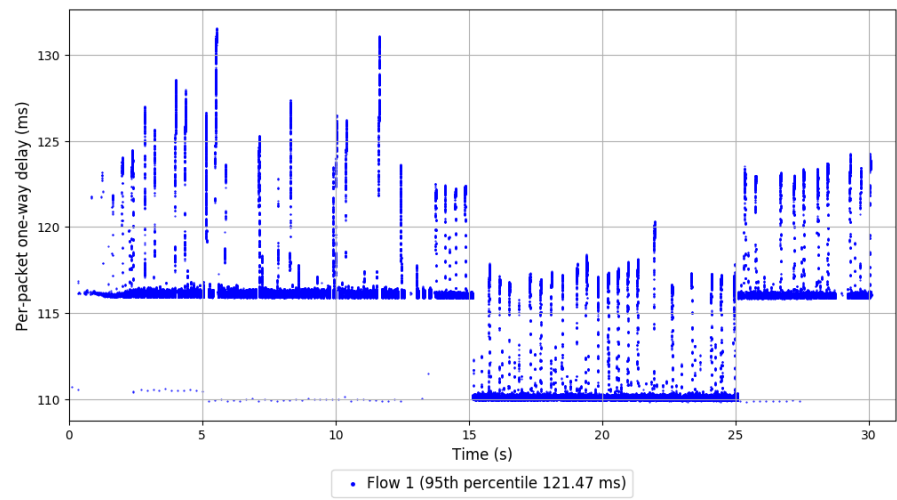
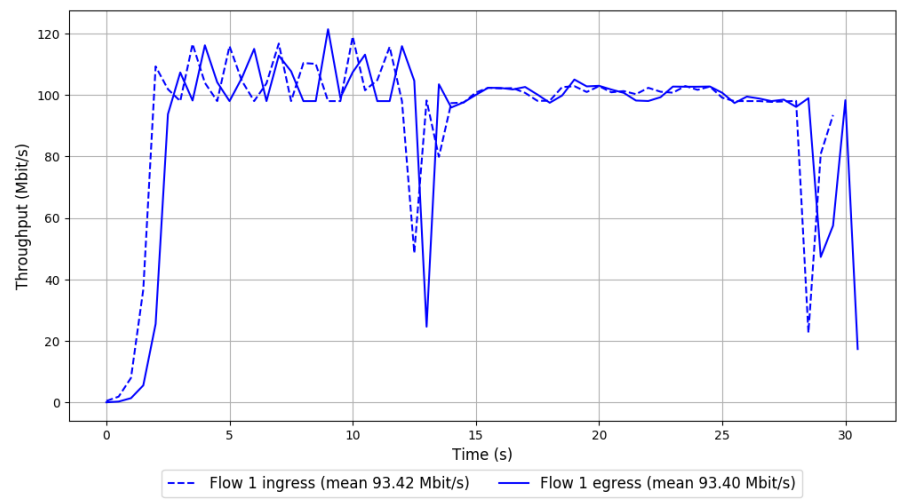
-- Flow 1:

Average throughput: 93.40 Mbit/s

95th percentile per-packet one-way delay: 121.472 ms

Loss rate: 0.02%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-05-21 23:19:24

End at: 2018-05-21 23:19:54

Local clock offset: 2.141 ms

Remote clock offset: -0.067 ms

Below is generated by plot.py at 2018-05-22 01:00:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.09 Mbit/s

95th percentile per-packet one-way delay: 120.750 ms

Loss rate: 0.00%

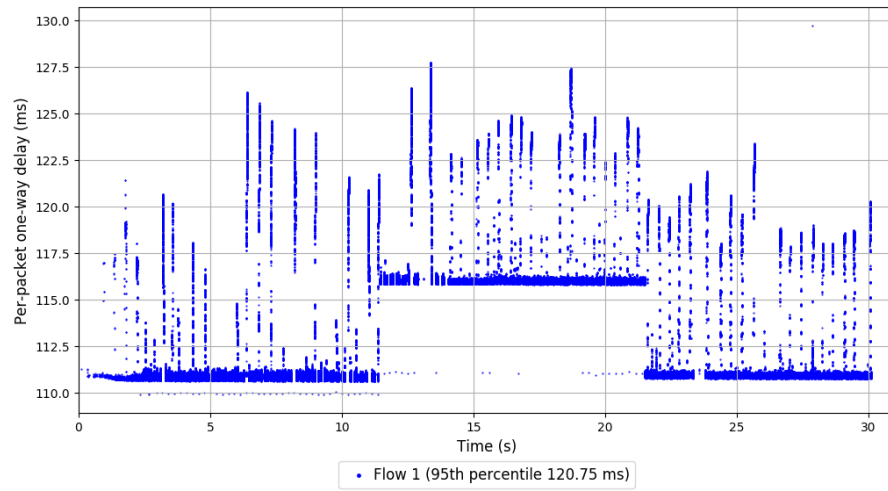
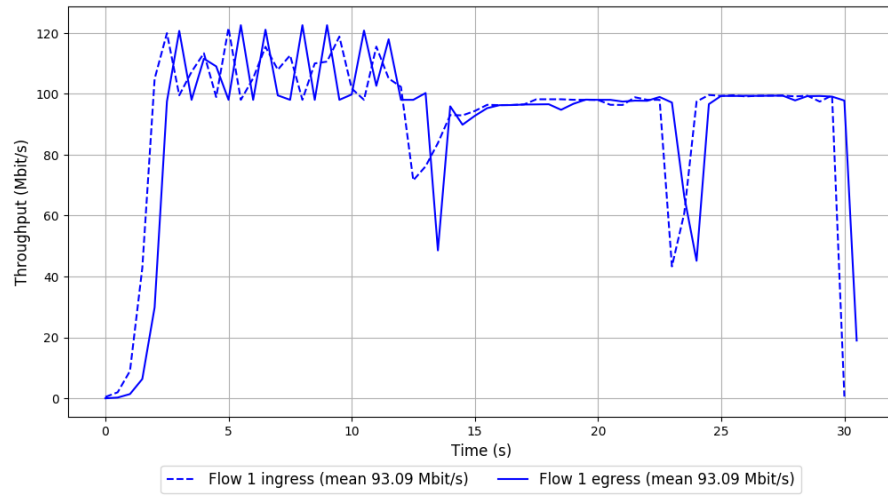
-- Flow 1:

Average throughput: 93.09 Mbit/s

95th percentile per-packet one-way delay: 120.750 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link

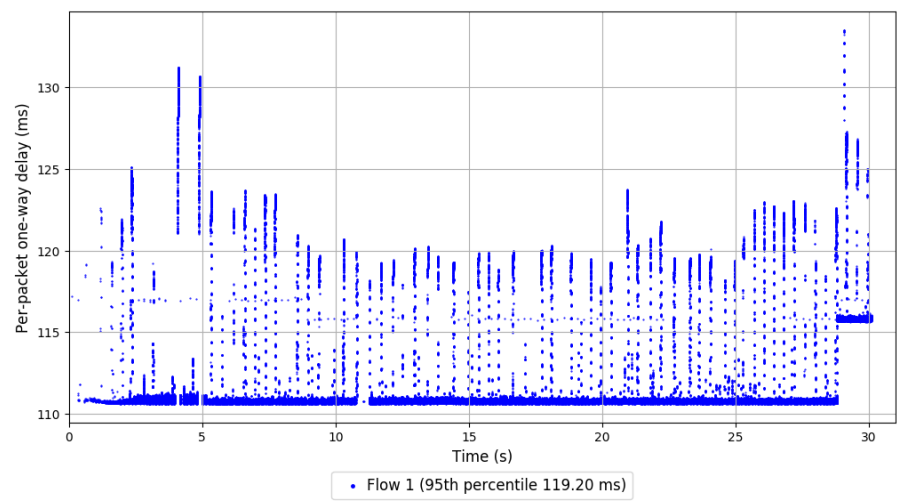
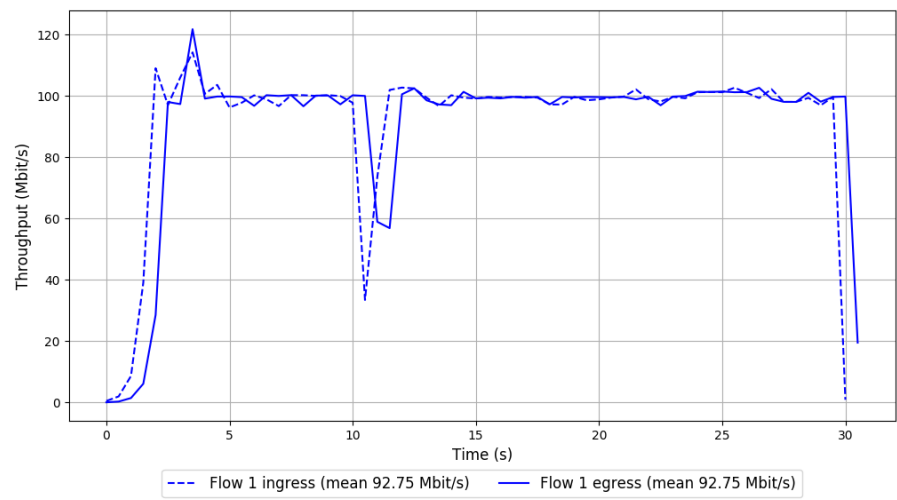


Run 7: Statistics of TCP BBR

Start at: 2018-05-21 23:39:46
End at: 2018-05-21 23:40:16
Local clock offset: 1.228 ms
Remote clock offset: -0.079 ms

Below is generated by plot.py at 2018-05-22 01:00:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.75 Mbit/s
95th percentile per-packet one-way delay: 119.201 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 92.75 Mbit/s
95th percentile per-packet one-way delay: 119.201 ms
Loss rate: 0.02%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-05-22 00:00:02

End at: 2018-05-22 00:00:32

Local clock offset: 0.709 ms

Remote clock offset: -0.43 ms

Below is generated by plot.py at 2018-05-22 01:00:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.51 Mbit/s

95th percentile per-packet one-way delay: 123.782 ms

Loss rate: 0.00%

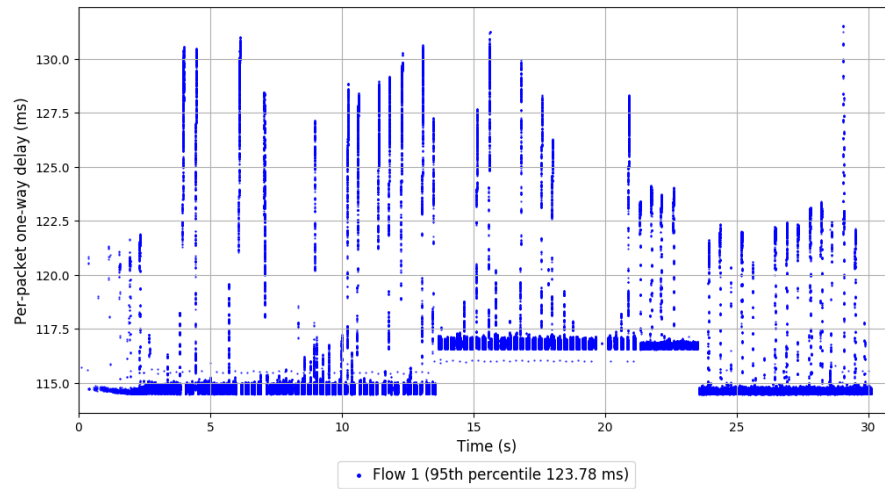
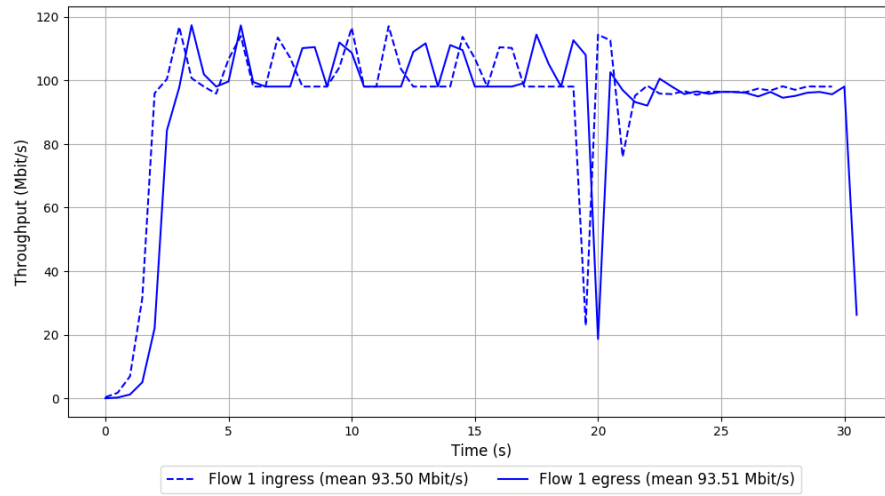
-- Flow 1:

Average throughput: 93.51 Mbit/s

95th percentile per-packet one-way delay: 123.782 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link

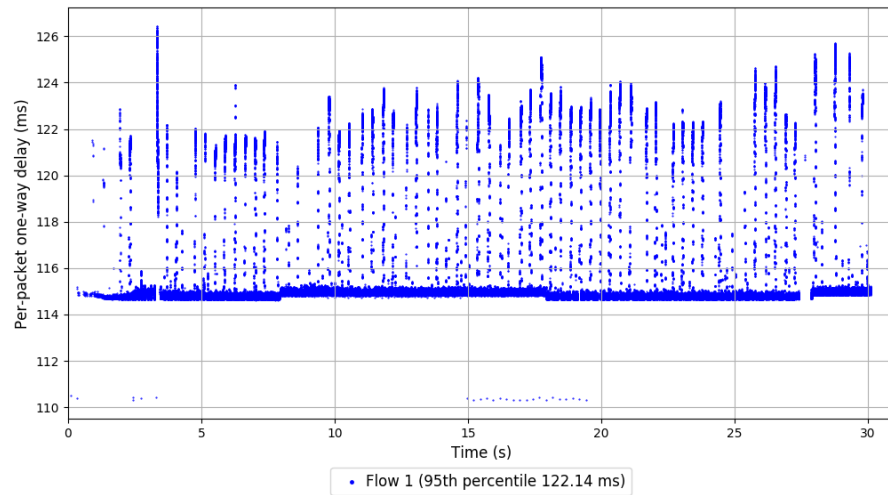
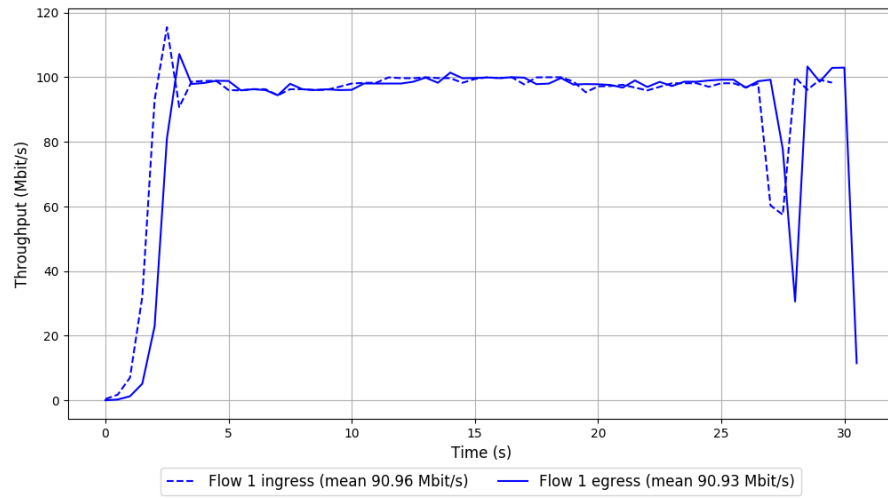


Run 9: Statistics of TCP BBR

Start at: 2018-05-22 00:20:17
End at: 2018-05-22 00:20:47
Local clock offset: 0.392 ms
Remote clock offset: -0.445 ms

Below is generated by plot.py at 2018-05-22 01:01:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.93 Mbit/s
95th percentile per-packet one-way delay: 122.140 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 90.93 Mbit/s
95th percentile per-packet one-way delay: 122.140 ms
Loss rate: 0.02%

Run 9: Report of TCP BBR — Data Link

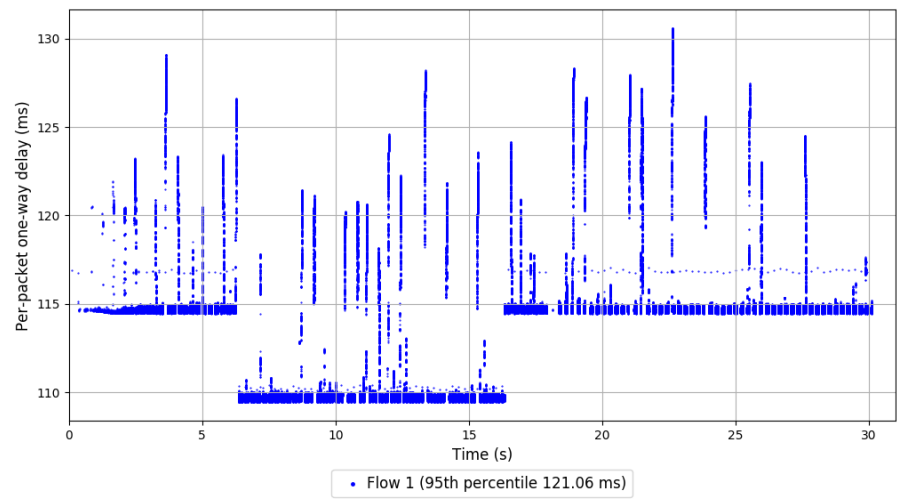
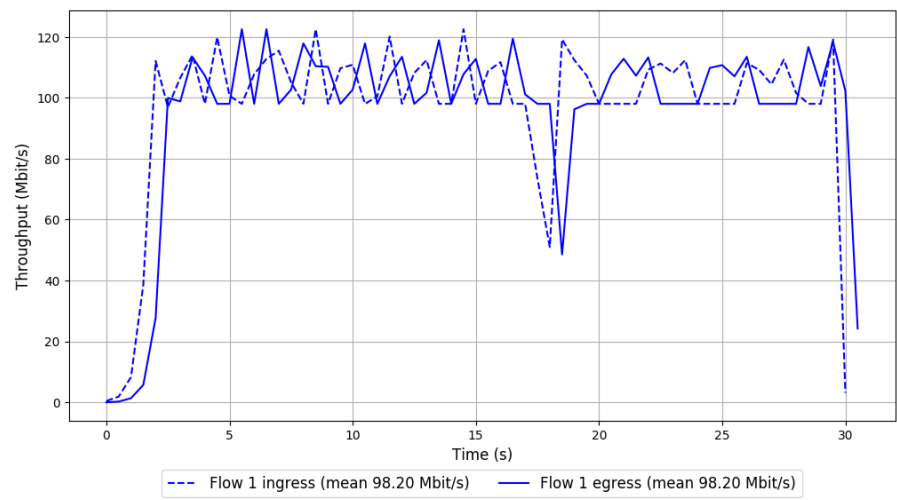


Run 10: Statistics of TCP BBR

Start at: 2018-05-22 00:40:29
End at: 2018-05-22 00:40:59
Local clock offset: 0.33 ms
Remote clock offset: -0.492 ms

Below is generated by plot.py at 2018-05-22 01:01:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 98.20 Mbit/s
95th percentile per-packet one-way delay: 121.058 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 98.20 Mbit/s
95th percentile per-packet one-way delay: 121.058 ms
Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-05-21 21:48:44

End at: 2018-05-21 21:49:14

Local clock offset: 13.983 ms

Remote clock offset: 0.079 ms

Below is generated by plot.py at 2018-05-22 01:01:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.40 Mbit/s

95th percentile per-packet one-way delay: 117.050 ms

Loss rate: 0.02%

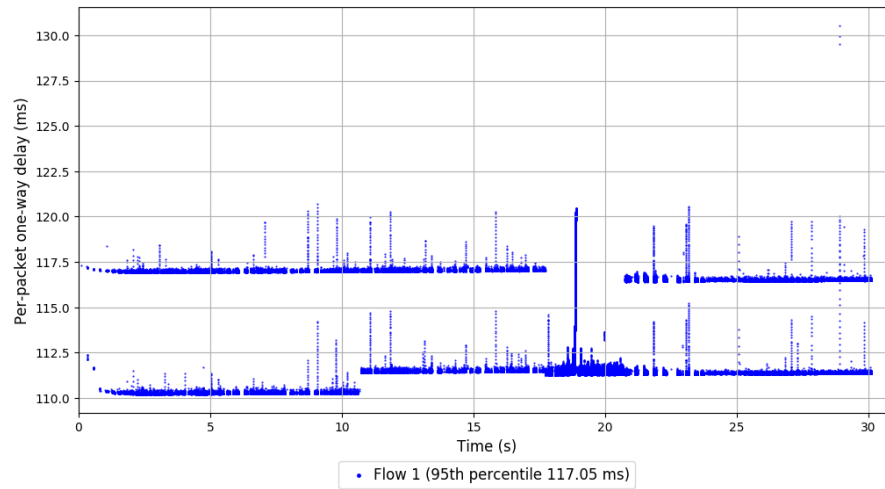
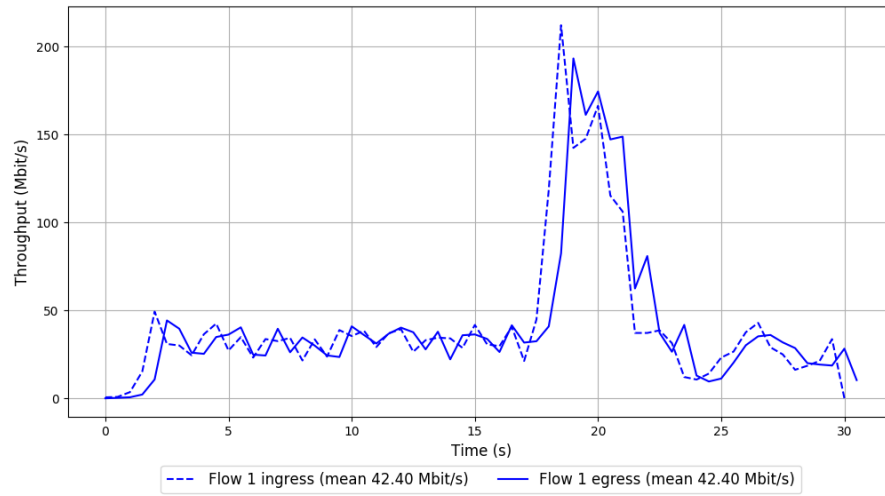
-- Flow 1:

Average throughput: 42.40 Mbit/s

95th percentile per-packet one-way delay: 117.050 ms

Loss rate: 0.02%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-05-21 22:09:20

End at: 2018-05-21 22:09:50

Local clock offset: 23.356 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-05-22 01:01:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.68 Mbit/s

95th percentile per-packet one-way delay: 114.820 ms

Loss rate: 0.05%

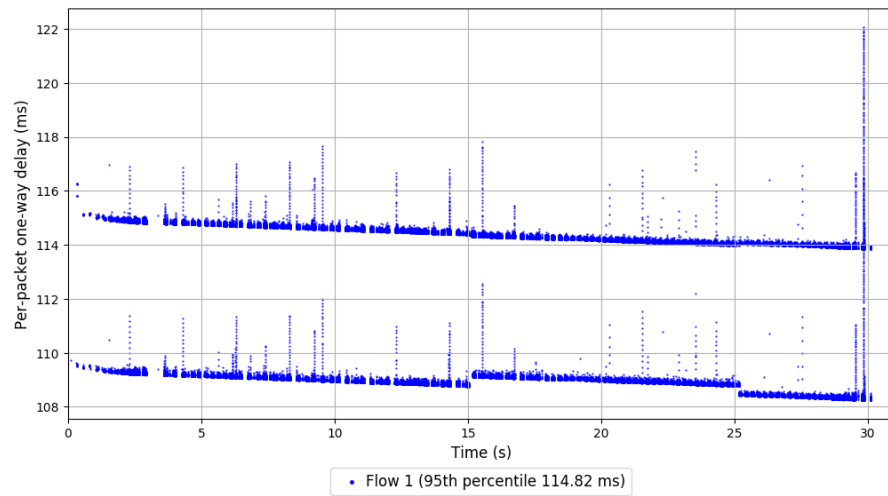
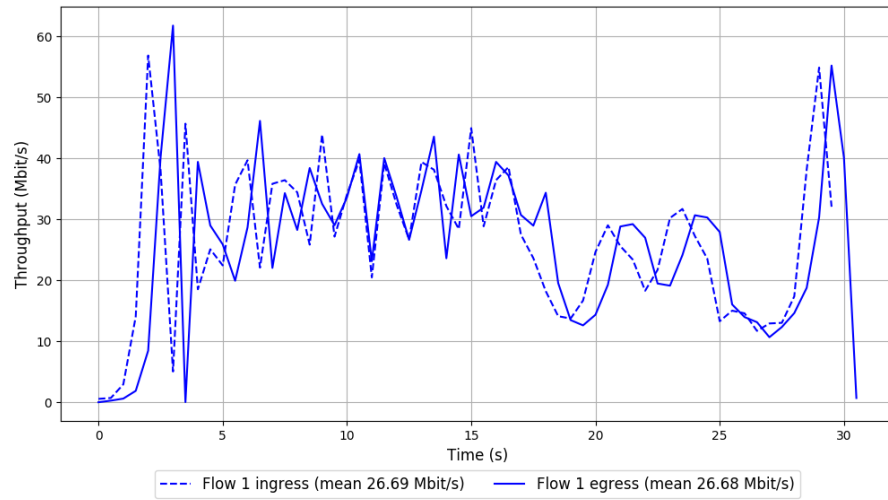
-- Flow 1:

Average throughput: 26.68 Mbit/s

95th percentile per-packet one-way delay: 114.820 ms

Loss rate: 0.05%

Run 2: Report of Copa — Data Link

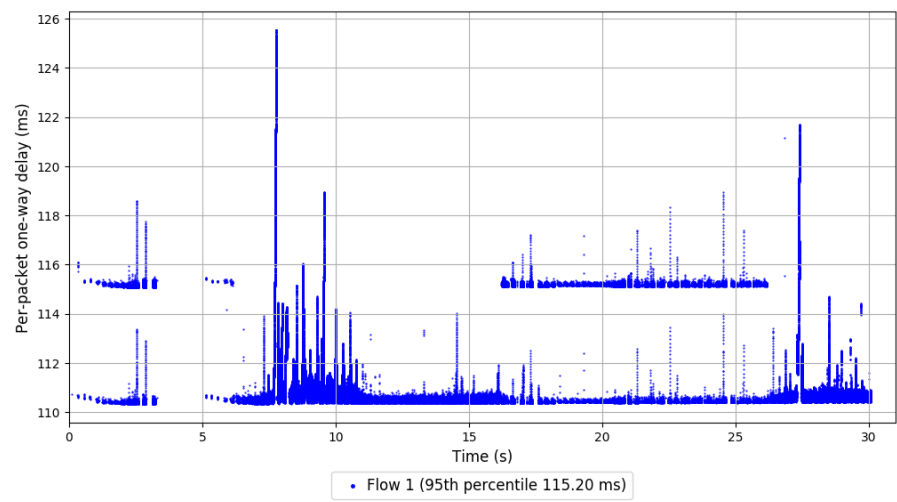
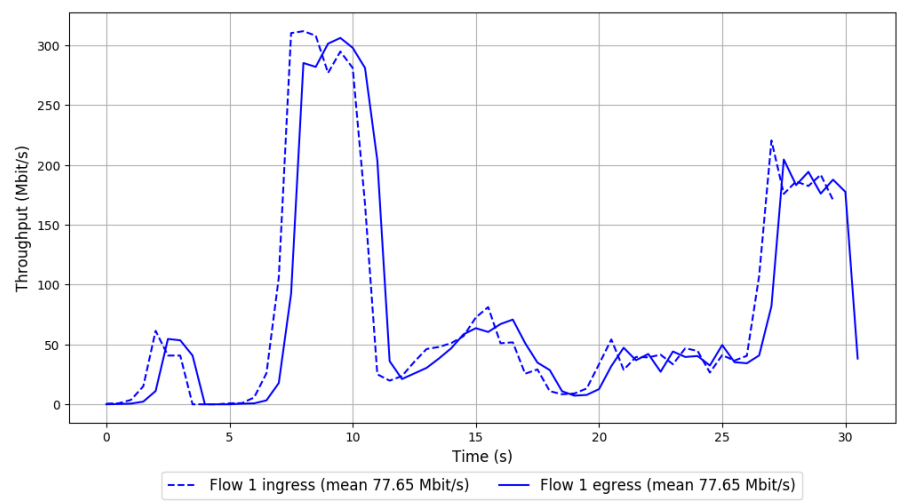


Run 3: Statistics of Copa

Start at: 2018-05-21 22:30:09
End at: 2018-05-21 22:30:39
Local clock offset: 10.513 ms
Remote clock offset: 0.395 ms

Below is generated by plot.py at 2018-05-22 01:02:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.65 Mbit/s
95th percentile per-packet one-way delay: 115.200 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 77.65 Mbit/s
95th percentile per-packet one-way delay: 115.200 ms
Loss rate: 0.00%

Run 3: Report of Copa — Data Link

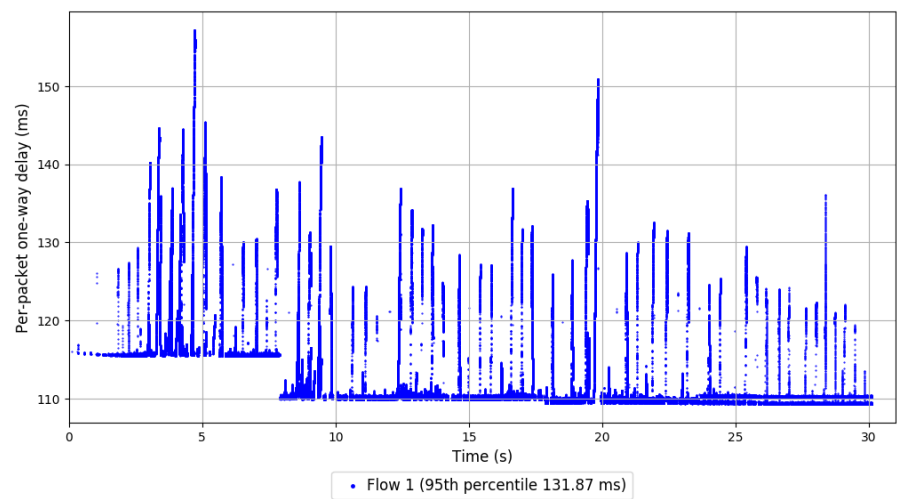
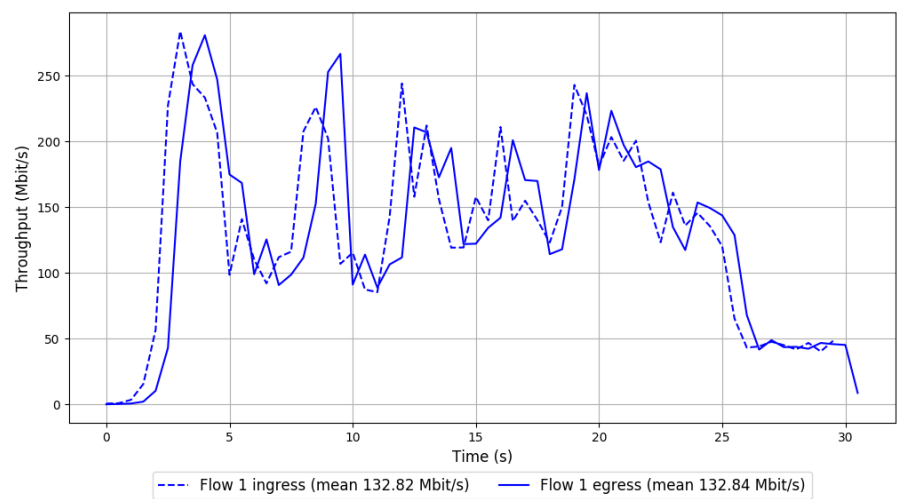


Run 4: Statistics of Copa

Start at: 2018-05-21 22:50:27
End at: 2018-05-21 22:50:57
Local clock offset: 5.906 ms
Remote clock offset: -0.038 ms

Below is generated by plot.py at 2018-05-22 01:03:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 132.84 Mbit/s
95th percentile per-packet one-way delay: 131.867 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 132.84 Mbit/s
95th percentile per-packet one-way delay: 131.867 ms
Loss rate: 0.00%

Run 4: Report of Copa — Data Link

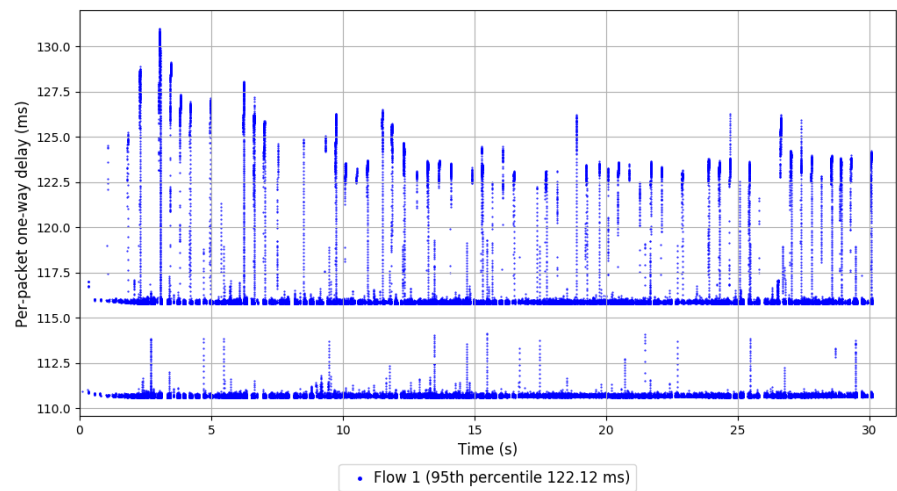
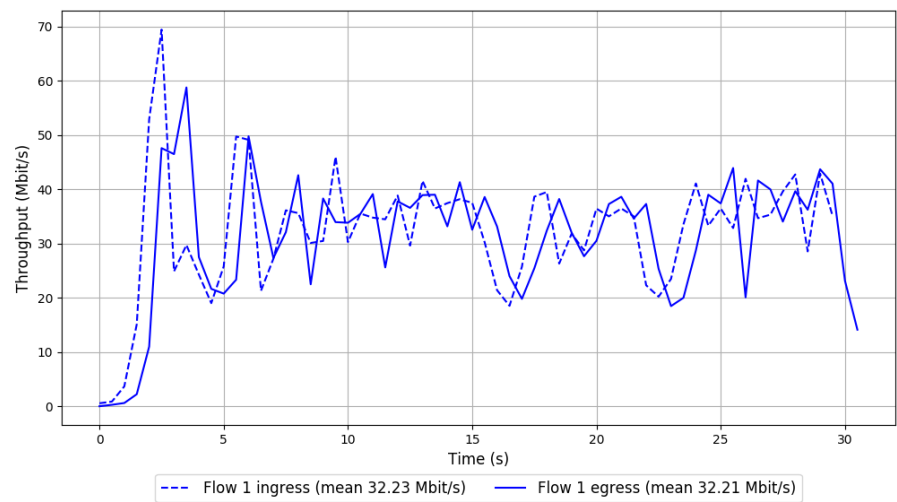


Run 5: Statistics of Copa

Start at: 2018-05-21 23:11:03
End at: 2018-05-21 23:11:33
Local clock offset: 2.885 ms
Remote clock offset: -0.074 ms

Below is generated by plot.py at 2018-05-22 01:03:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 32.21 Mbit/s
95th percentile per-packet one-way delay: 122.119 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 32.21 Mbit/s
95th percentile per-packet one-way delay: 122.119 ms
Loss rate: 0.03%

Run 5: Report of Copa — Data Link

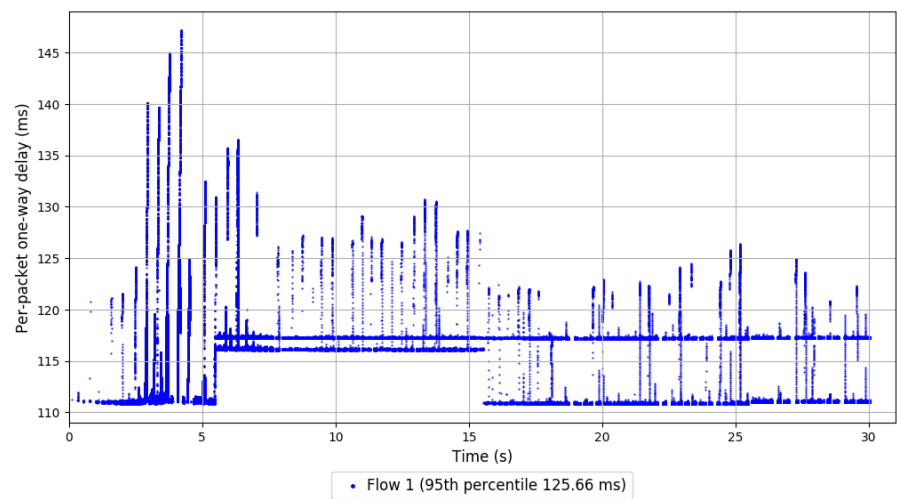
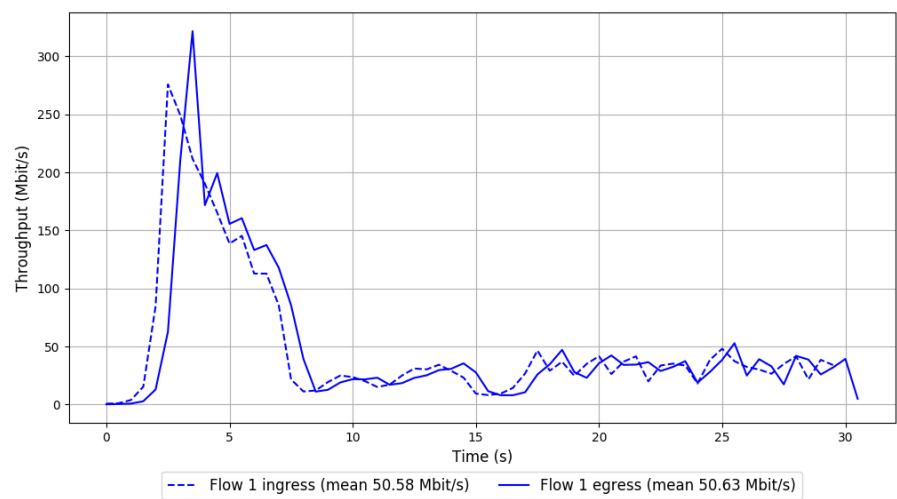


Run 6: Statistics of Copa

Start at: 2018-05-21 23:31:20
End at: 2018-05-21 23:31:50
Local clock offset: 0.827 ms
Remote clock offset: -0.094 ms

Below is generated by plot.py at 2018-05-22 01:03:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.63 Mbit/s
95th percentile per-packet one-way delay: 125.658 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 50.63 Mbit/s
95th percentile per-packet one-way delay: 125.658 ms
Loss rate: 0.01%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-05-21 23:51:45

End at: 2018-05-21 23:52:15

Local clock offset: 1.063 ms

Remote clock offset: 0.308 ms

Below is generated by plot.py at 2018-05-22 01:03:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.87 Mbit/s

95th percentile per-packet one-way delay: 118.957 ms

Loss rate: 0.02%

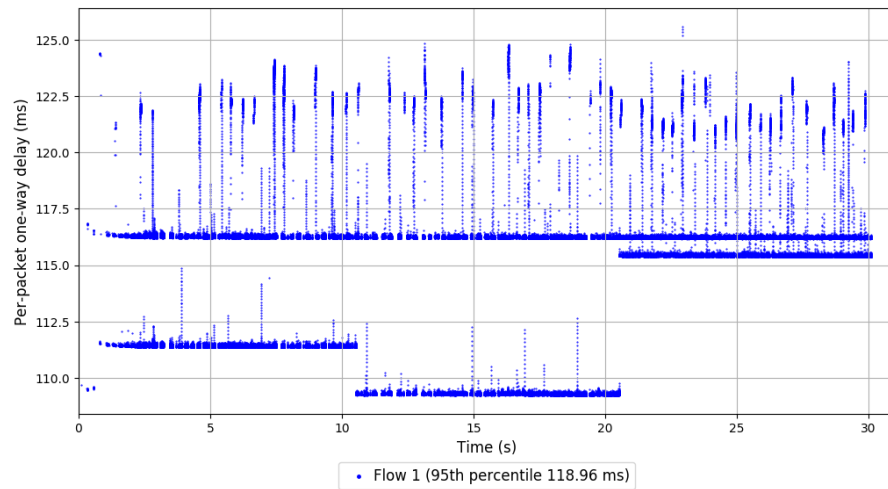
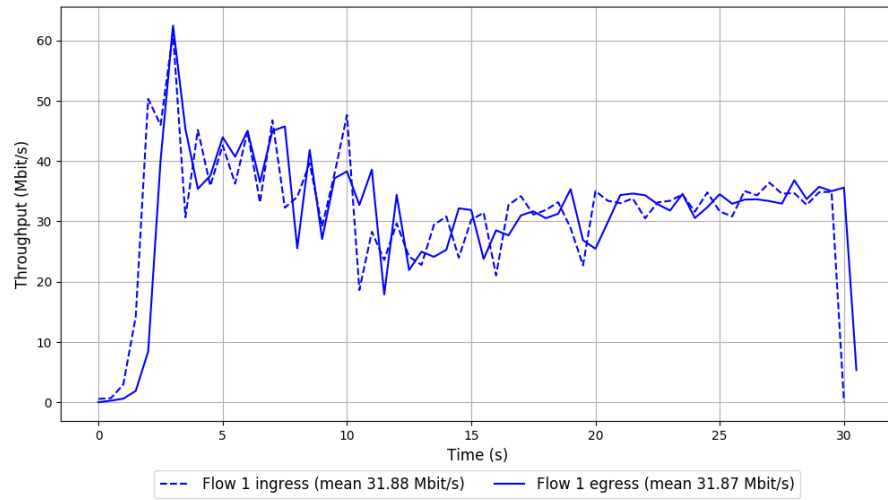
-- Flow 1:

Average throughput: 31.87 Mbit/s

95th percentile per-packet one-way delay: 118.957 ms

Loss rate: 0.02%

Run 7: Report of Copa — Data Link

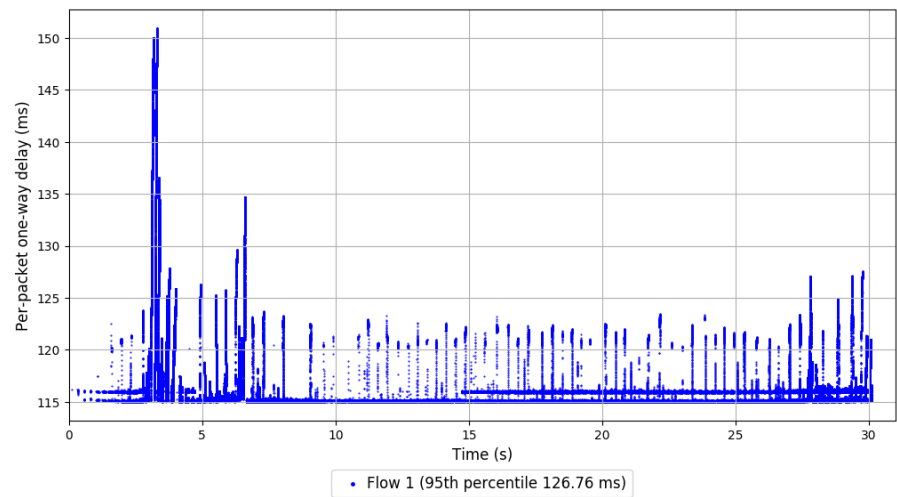
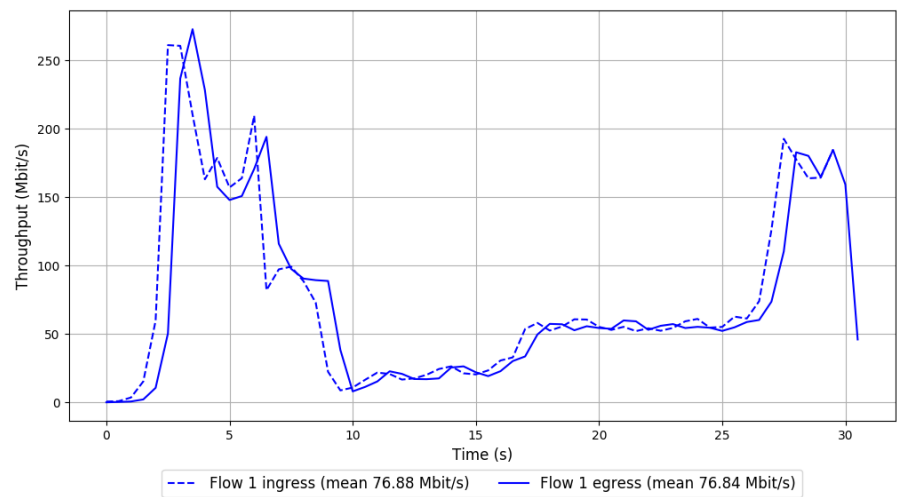


Run 8: Statistics of Copa

Start at: 2018-05-22 00:12:00
End at: 2018-05-22 00:12:30
Local clock offset: 0.427 ms
Remote clock offset: -0.082 ms

Below is generated by plot.py at 2018-05-22 01:03:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.84 Mbit/s
95th percentile per-packet one-way delay: 126.756 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 76.84 Mbit/s
95th percentile per-packet one-way delay: 126.756 ms
Loss rate: 0.07%

Run 8: Report of Copa — Data Link

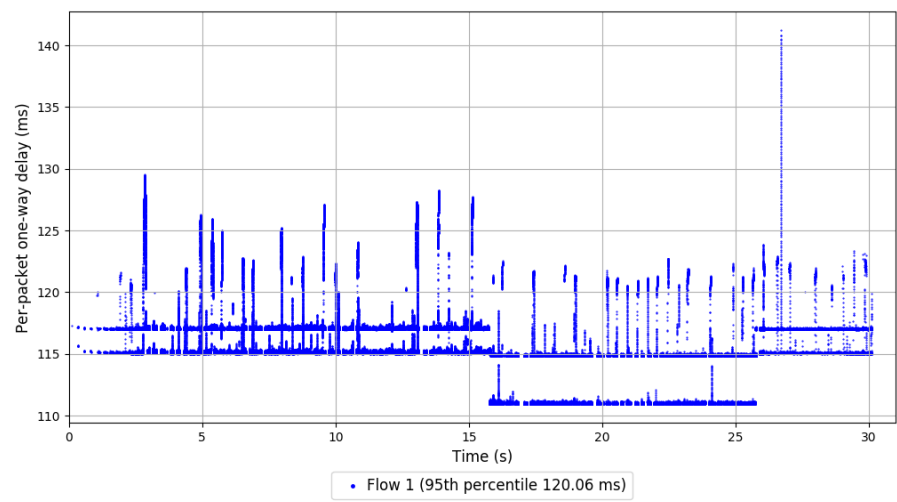
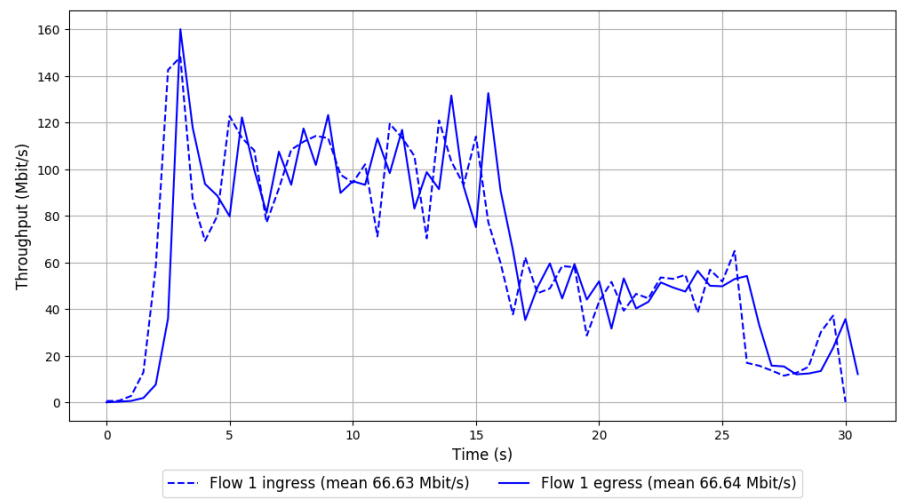


Run 9: Statistics of Copa

Start at: 2018-05-22 00:32:09
End at: 2018-05-22 00:32:39
Local clock offset: 0.351 ms
Remote clock offset: -0.131 ms

Below is generated by plot.py at 2018-05-22 01:03:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 66.64 Mbit/s
95th percentile per-packet one-way delay: 120.057 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 66.64 Mbit/s
95th percentile per-packet one-way delay: 120.057 ms
Loss rate: 0.01%

Run 9: Report of Copa — Data Link

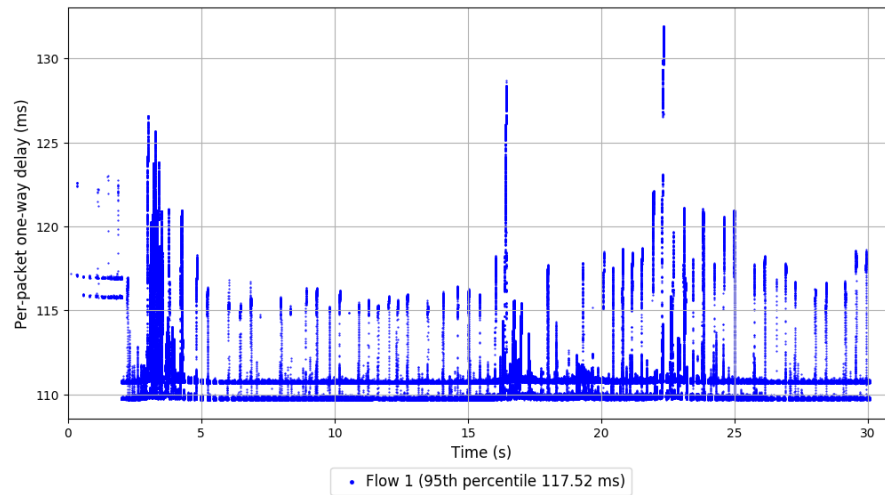
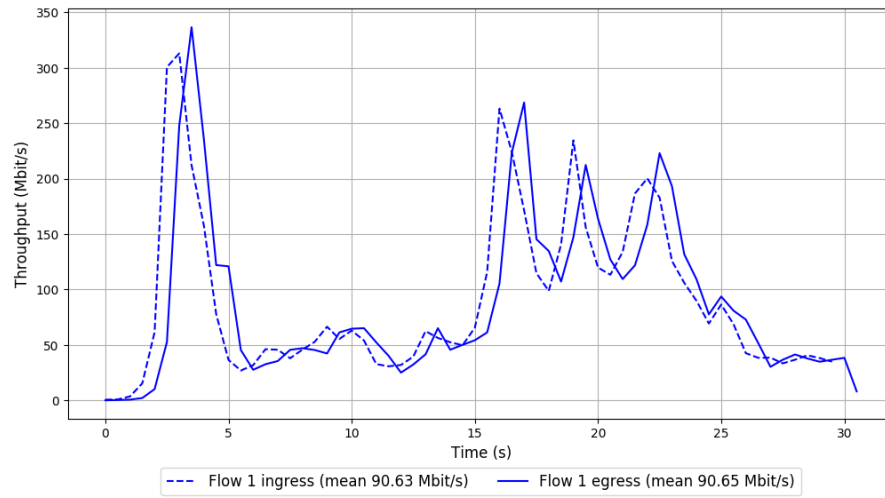


Run 10: Statistics of Copa

Start at: 2018-05-22 00:52:13
End at: 2018-05-22 00:52:43
Local clock offset: 0.49 ms
Remote clock offset: -0.114 ms

Below is generated by plot.py at 2018-05-22 01:04:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.65 Mbit/s
95th percentile per-packet one-way delay: 117.515 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 90.65 Mbit/s
95th percentile per-packet one-way delay: 117.515 ms
Loss rate: 0.00%

Run 10: Report of Copa — Data Link

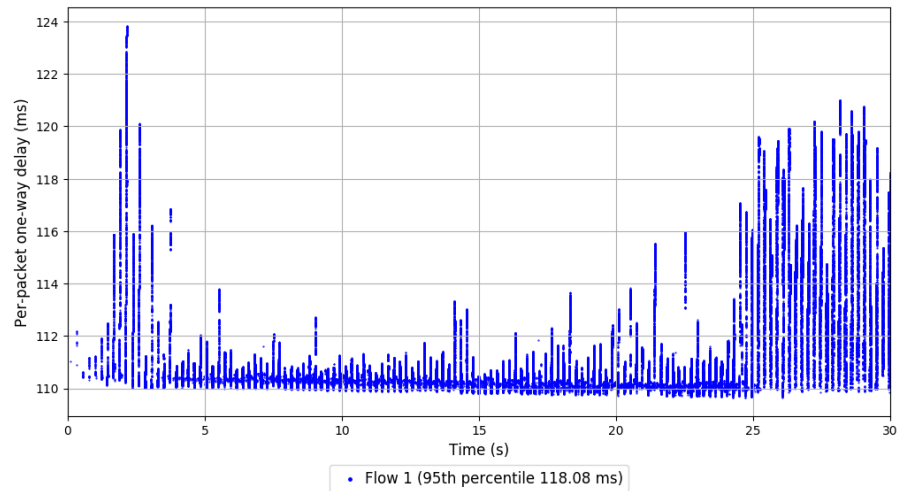
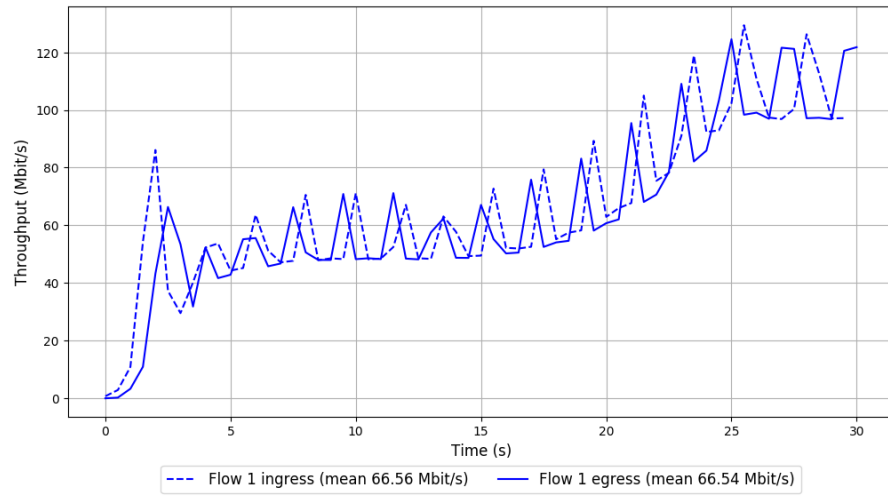


Run 1: Statistics of TCP Cubic

Start at: 2018-05-21 21:34:22
End at: 2018-05-21 21:34:52
Local clock offset: 16.681 ms
Remote clock offset: -0.103 ms

Below is generated by plot.py at 2018-05-22 01:04:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 66.54 Mbit/s
95th percentile per-packet one-way delay: 118.080 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 66.54 Mbit/s
95th percentile per-packet one-way delay: 118.080 ms
Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-05-21 21:54:48

End at: 2018-05-21 21:55:18

Local clock offset: 17.241 ms

Remote clock offset: 0.142 ms

Below is generated by plot.py at 2018-05-22 01:04:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.98 Mbit/s

95th percentile per-packet one-way delay: 125.482 ms

Loss rate: 0.00%

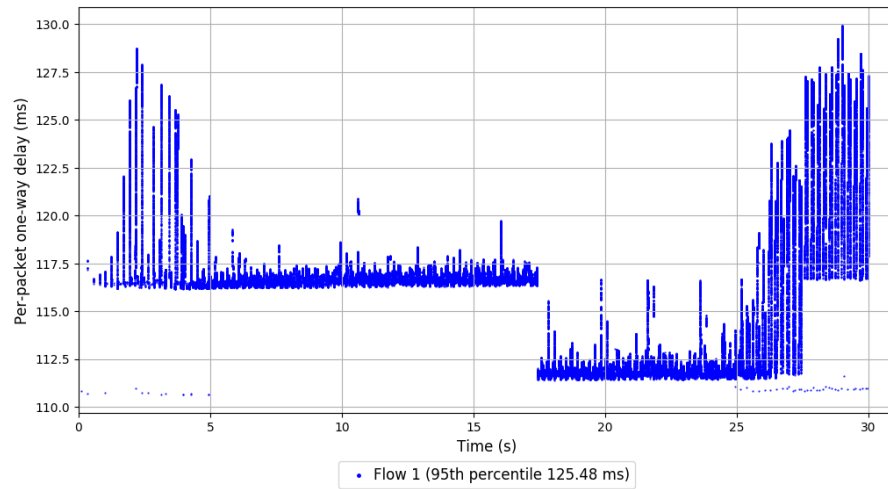
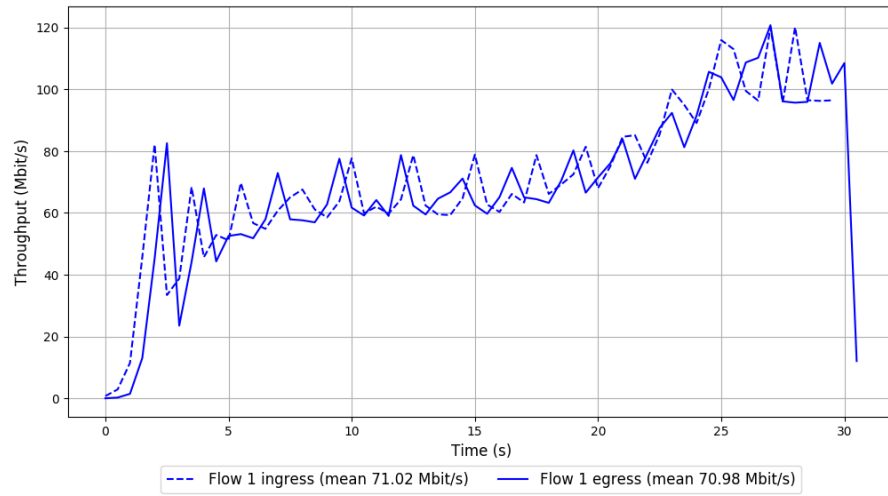
-- Flow 1:

Average throughput: 70.98 Mbit/s

95th percentile per-packet one-way delay: 125.482 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-05-21 22:15:31

End at: 2018-05-21 22:16:01

Local clock offset: 13.822 ms

Remote clock offset: 0.03 ms

Below is generated by plot.py at 2018-05-22 01:04:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.53 Mbit/s

95th percentile per-packet one-way delay: 123.577 ms

Loss rate: 0.00%

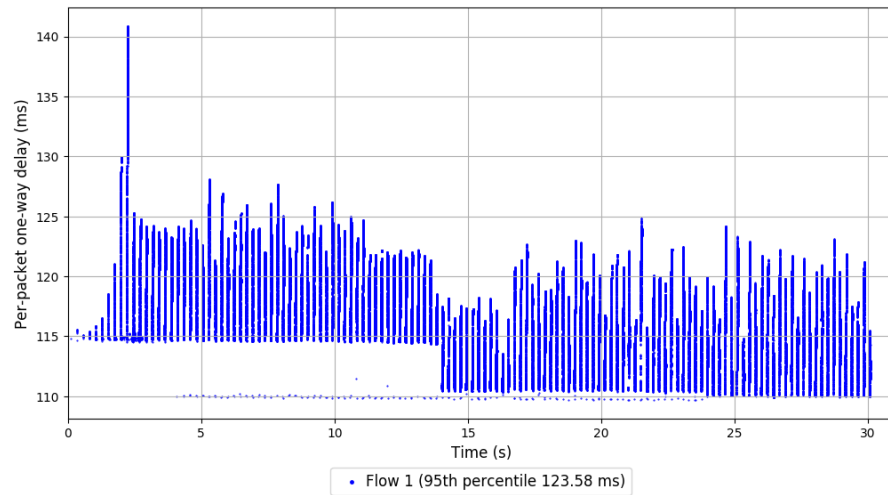
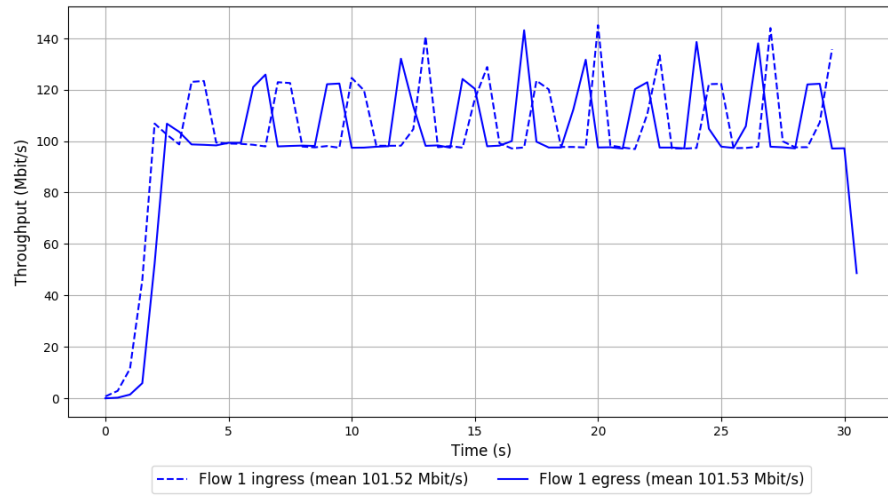
-- Flow 1:

Average throughput: 101.53 Mbit/s

95th percentile per-packet one-way delay: 123.577 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-05-21 22:36:16

End at: 2018-05-21 22:36:46

Local clock offset: 11.501 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-05-22 01:04:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.57 Mbit/s

95th percentile per-packet one-way delay: 124.029 ms

Loss rate: 0.00%

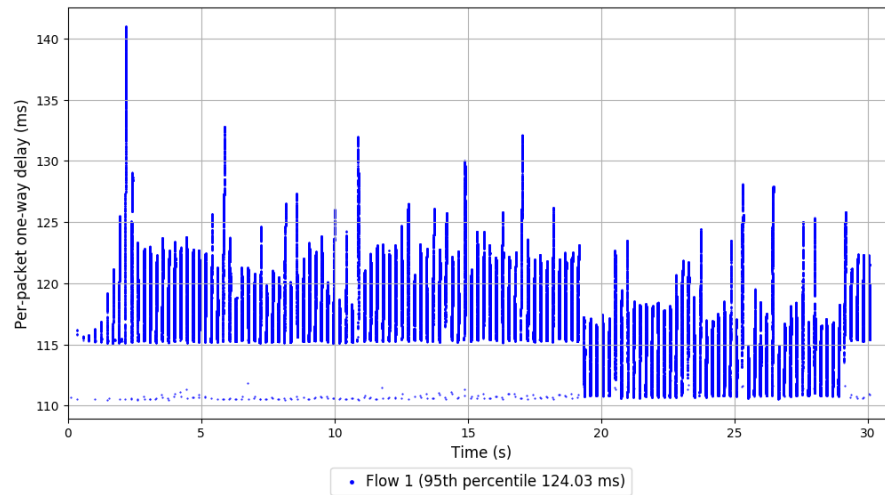
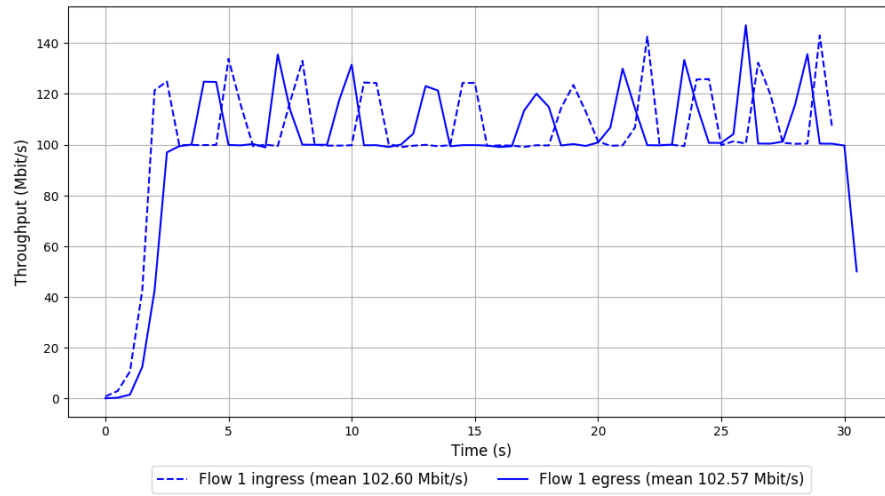
-- Flow 1:

Average throughput: 102.57 Mbit/s

95th percentile per-packet one-way delay: 124.029 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link

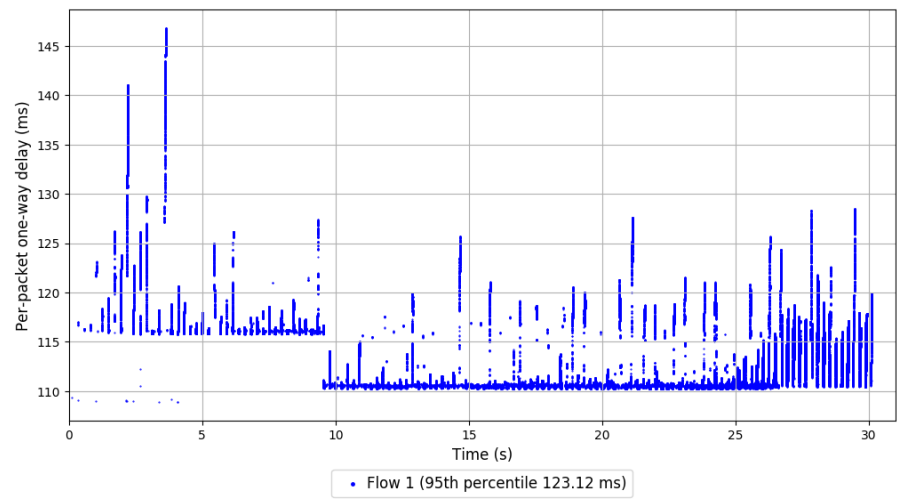
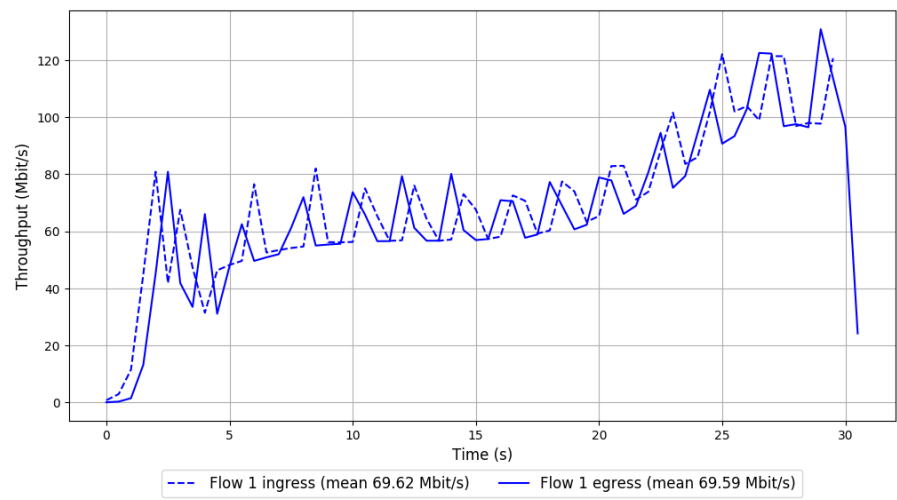


Run 5: Statistics of TCP Cubic

Start at: 2018-05-21 22:56:36
End at: 2018-05-21 22:57:06
Local clock offset: 3.574 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2018-05-22 01:04:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 69.59 Mbit/s
95th percentile per-packet one-way delay: 123.120 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 69.59 Mbit/s
95th percentile per-packet one-way delay: 123.120 ms
Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link

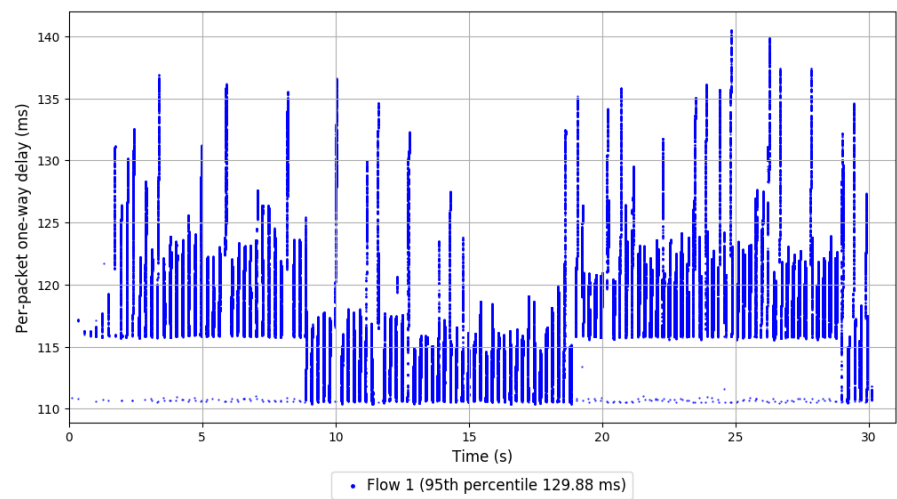
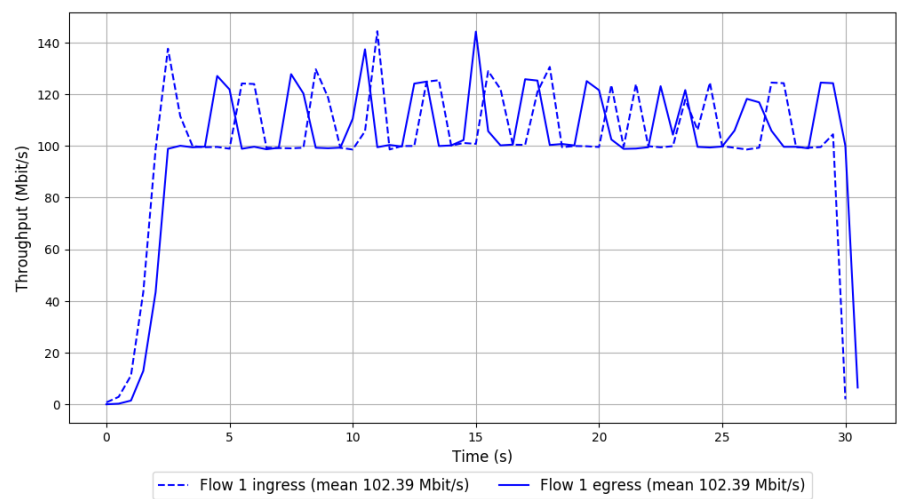


Run 6: Statistics of TCP Cubic

Start at: 2018-05-21 23:16:56
End at: 2018-05-21 23:17:26
Local clock offset: 3.033 ms
Remote clock offset: -0.048 ms

Below is generated by plot.py at 2018-05-22 01:04:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 102.39 Mbit/s
95th percentile per-packet one-way delay: 129.878 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 102.39 Mbit/s
95th percentile per-packet one-way delay: 129.878 ms
Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link

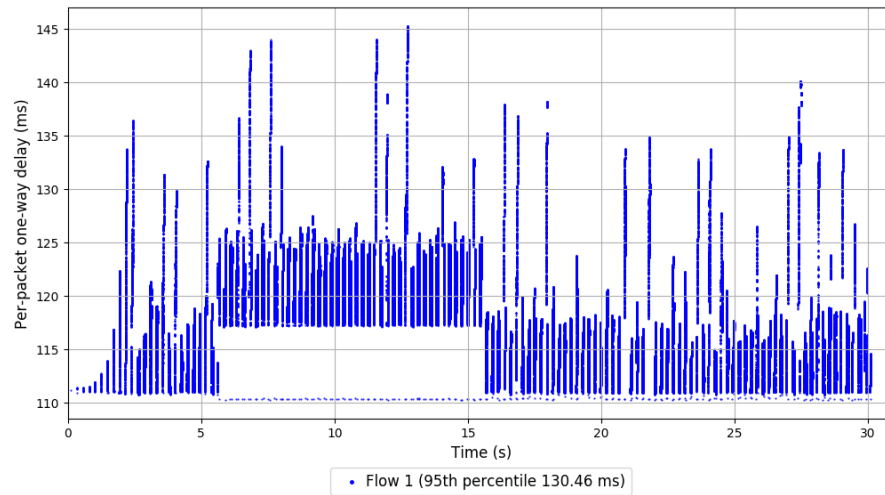
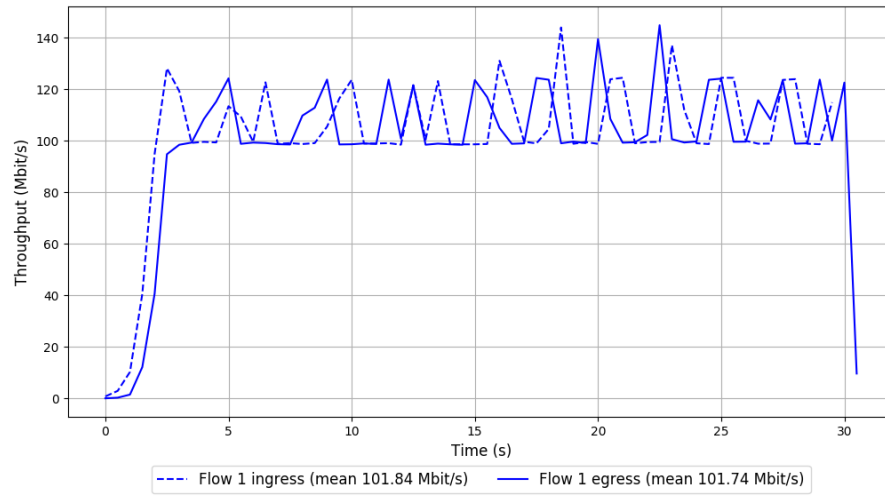


Run 7: Statistics of TCP Cubic

Start at: 2018-05-21 23:37:20
End at: 2018-05-21 23:37:50
Local clock offset: 1.031 ms
Remote clock offset: -0.118 ms

Below is generated by plot.py at 2018-05-22 01:04:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 101.74 Mbit/s
95th percentile per-packet one-way delay: 130.461 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 101.74 Mbit/s
95th percentile per-packet one-way delay: 130.461 ms
Loss rate: 0.10%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-05-21 23:57:38

End at: 2018-05-21 23:58:09

Local clock offset: 0.368 ms

Remote clock offset: 0.345 ms

Below is generated by plot.py at 2018-05-22 01:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.04 Mbit/s

95th percentile per-packet one-way delay: 125.516 ms

Loss rate: 0.00%

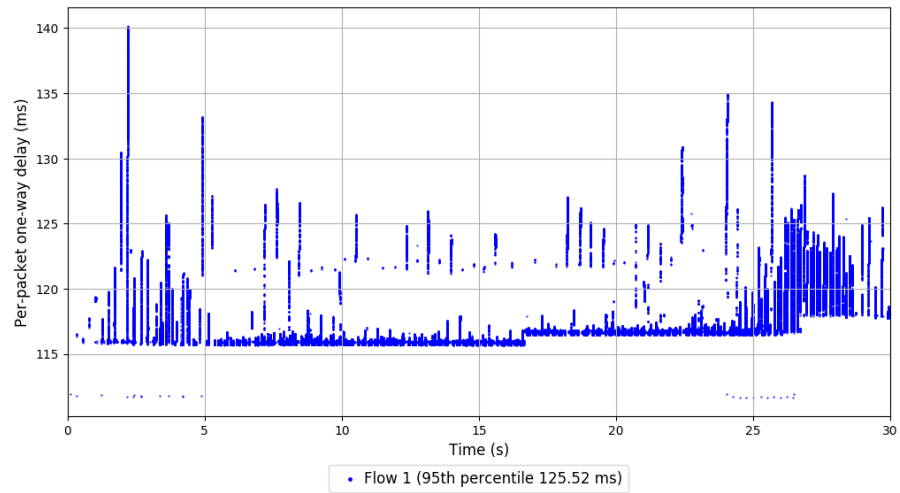
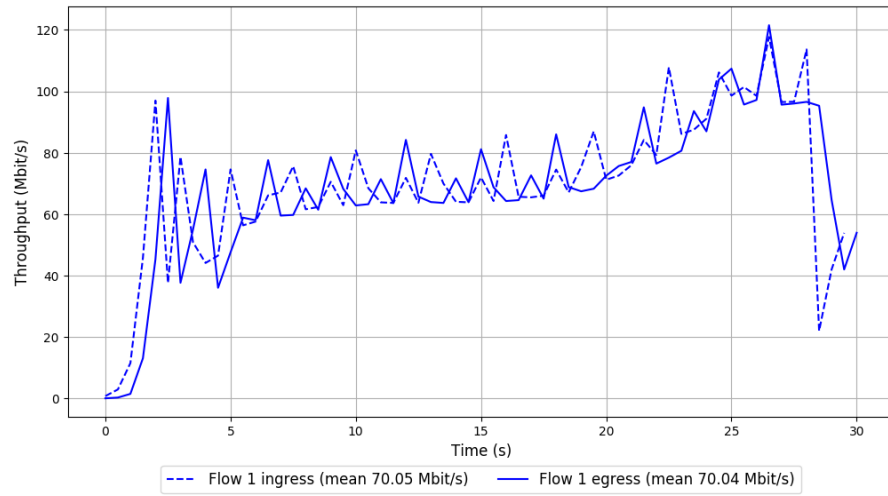
-- Flow 1:

Average throughput: 70.04 Mbit/s

95th percentile per-packet one-way delay: 125.516 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-05-22 00:17:54

End at: 2018-05-22 00:18:24

Local clock offset: 0.569 ms

Remote clock offset: 0.312 ms

Below is generated by plot.py at 2018-05-22 01:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.87 Mbit/s

95th percentile per-packet one-way delay: 125.165 ms

Loss rate: 0.00%

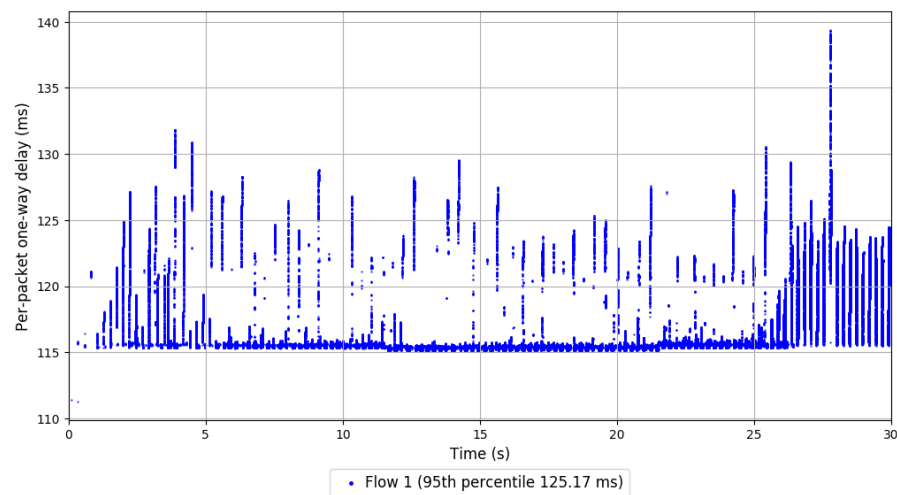
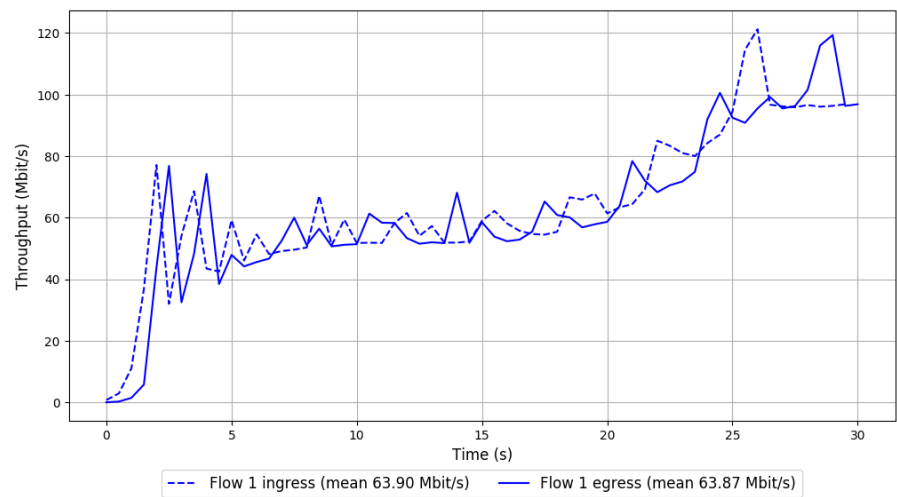
-- Flow 1:

Average throughput: 63.87 Mbit/s

95th percentile per-packet one-way delay: 125.165 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link

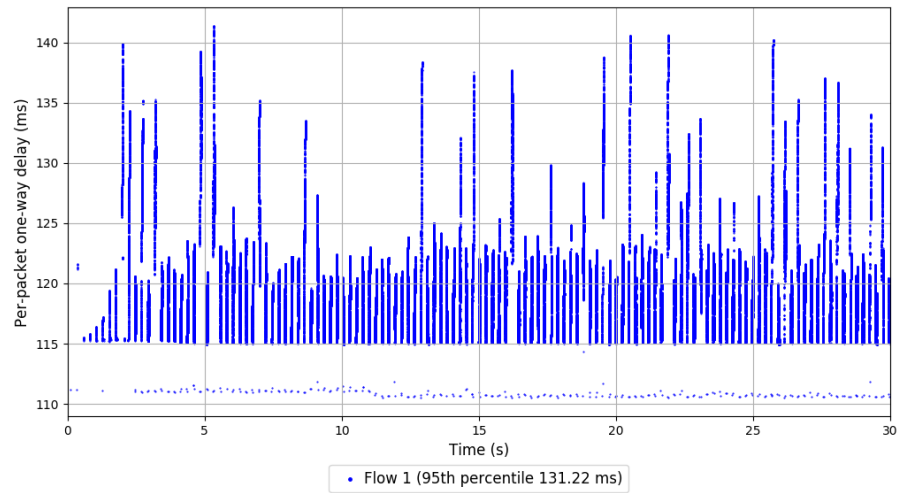
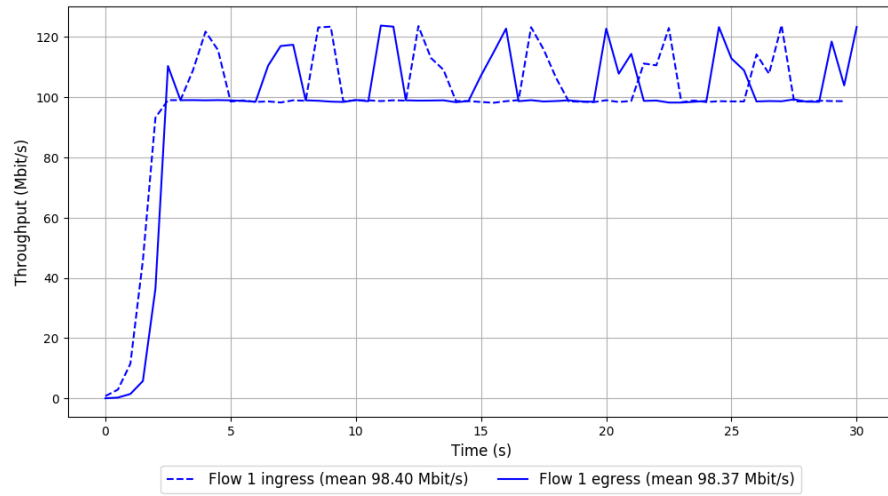


Run 10: Statistics of TCP Cubic

Start at: 2018-05-22 00:38:01
End at: 2018-05-22 00:38:31
Local clock offset: 0.272 ms
Remote clock offset: -0.126 ms

Below is generated by plot.py at 2018-05-22 01:05:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 98.37 Mbit/s
95th percentile per-packet one-way delay: 131.219 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 98.37 Mbit/s
95th percentile per-packet one-way delay: 131.219 ms
Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-05-21 21:40:51

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

Local clock offset: 13.015 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2018-05-22 01:19:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 834.96 Mbit/s

95th percentile per-packet one-way delay: 158.184 ms

Loss rate: 0.37%

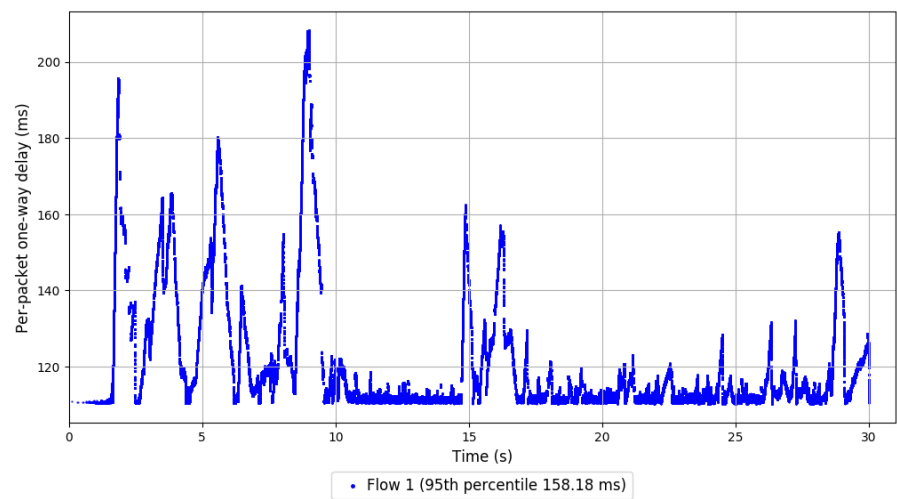
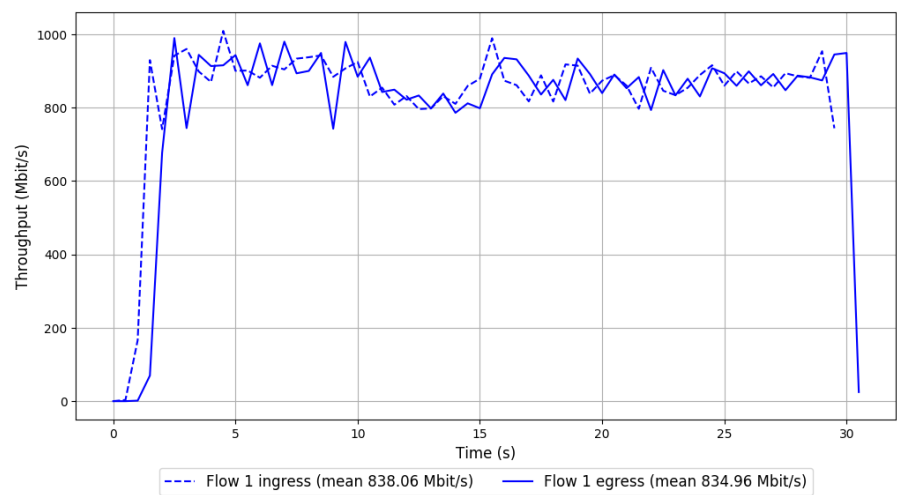
-- Flow 1:

Average throughput: 834.96 Mbit/s

95th percentile per-packet one-way delay: 158.184 ms

Loss rate: 0.37%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-05-21 22:01:20

End at: 2018-05-21 22:01:50

Local clock offset: 21.201 ms

Remote clock offset: 0.128 ms

Below is generated by plot.py at 2018-05-22 01:19:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 761.35 Mbit/s

95th percentile per-packet one-way delay: 182.086 ms

Loss rate: 2.08%

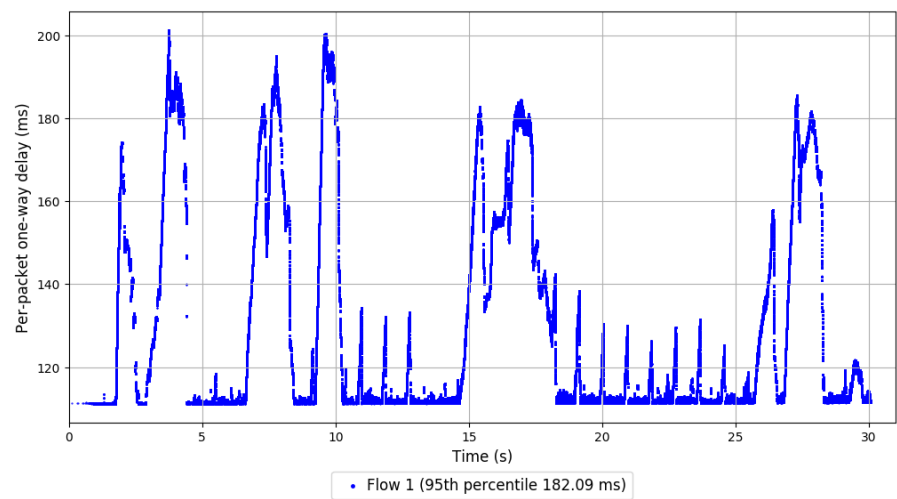
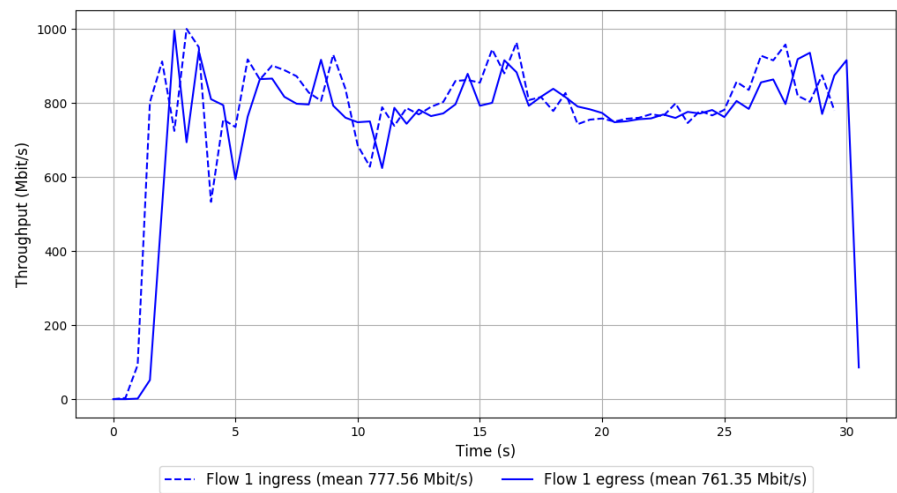
-- Flow 1:

Average throughput: 761.35 Mbit/s

95th percentile per-packet one-way delay: 182.086 ms

Loss rate: 2.08%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-05-21 22:22:10

End at: 2018-05-21 22:22:40

Local clock offset: 10.26 ms

Remote clock offset: 0.038 ms

Below is generated by plot.py at 2018-05-22 01:19:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 797.80 Mbit/s

95th percentile per-packet one-way delay: 169.873 ms

Loss rate: 0.51%

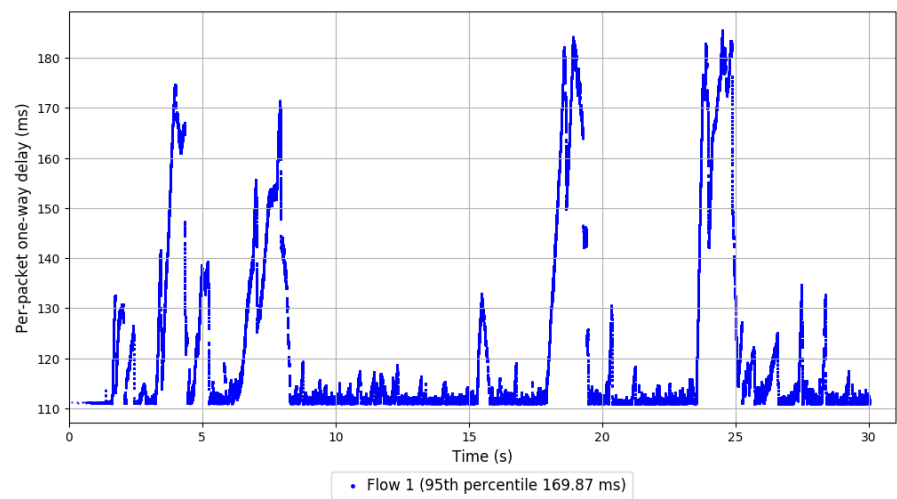
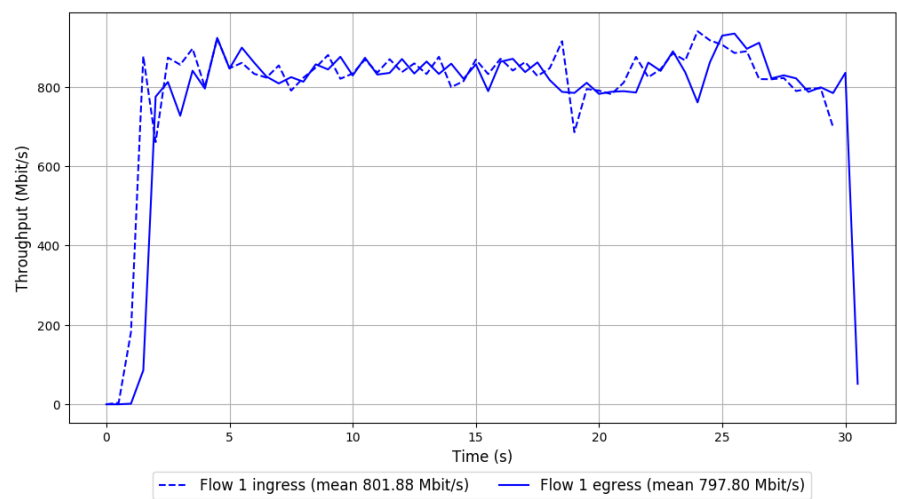
-- Flow 1:

Average throughput: 797.80 Mbit/s

95th percentile per-packet one-way delay: 169.873 ms

Loss rate: 0.51%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-05-21 22:42:41

End at: 2018-05-21 22:43:11

Local clock offset: 12.218 ms

Remote clock offset: -0.42 ms

Below is generated by plot.py at 2018-05-22 01:19:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 849.13 Mbit/s

95th percentile per-packet one-way delay: 144.903 ms

Loss rate: 0.07%

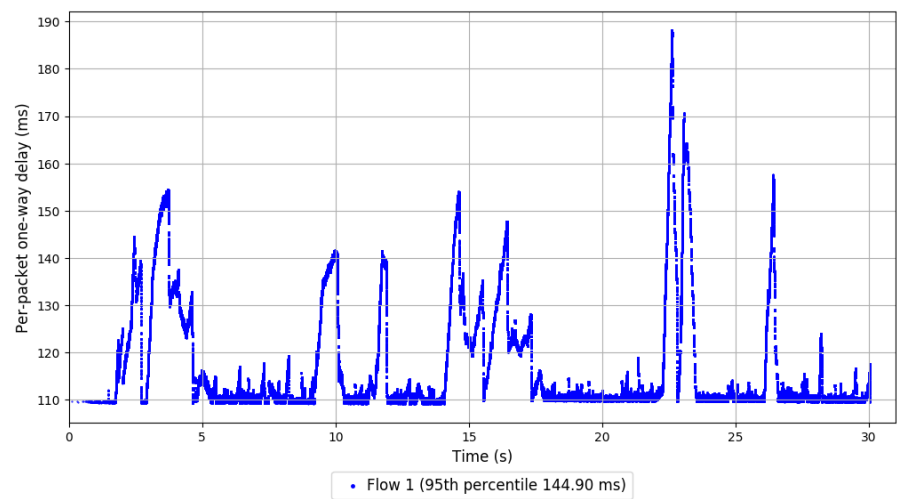
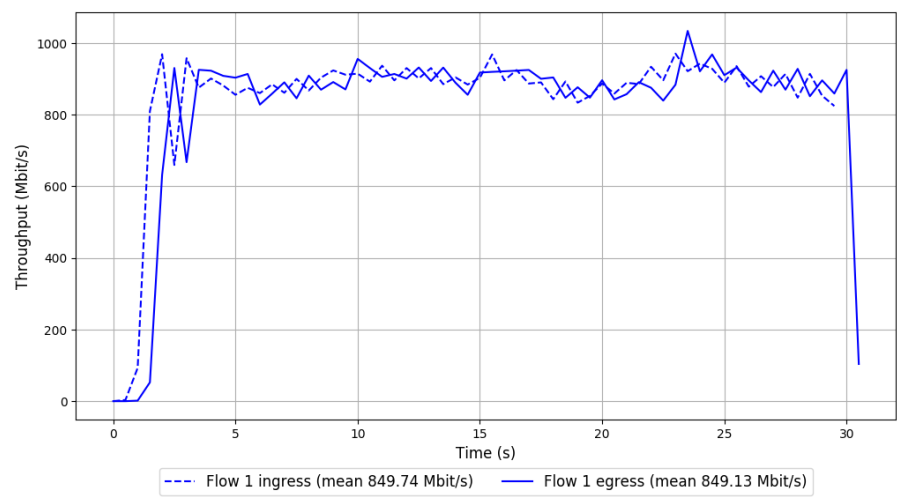
-- Flow 1:

Average throughput: 849.13 Mbit/s

95th percentile per-packet one-way delay: 144.903 ms

Loss rate: 0.07%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-05-21 23:03:02

End at: 2018-05-21 23:03:32

Local clock offset: 2.817 ms

Remote clock offset: 0.378 ms

Below is generated by plot.py at 2018-05-22 01:19:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 818.29 Mbit/s

95th percentile per-packet one-way delay: 150.949 ms

Loss rate: 0.42%

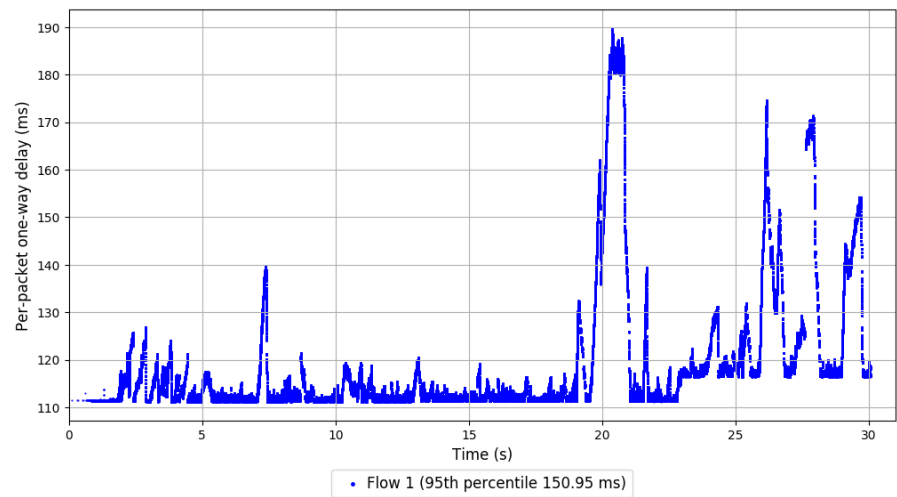
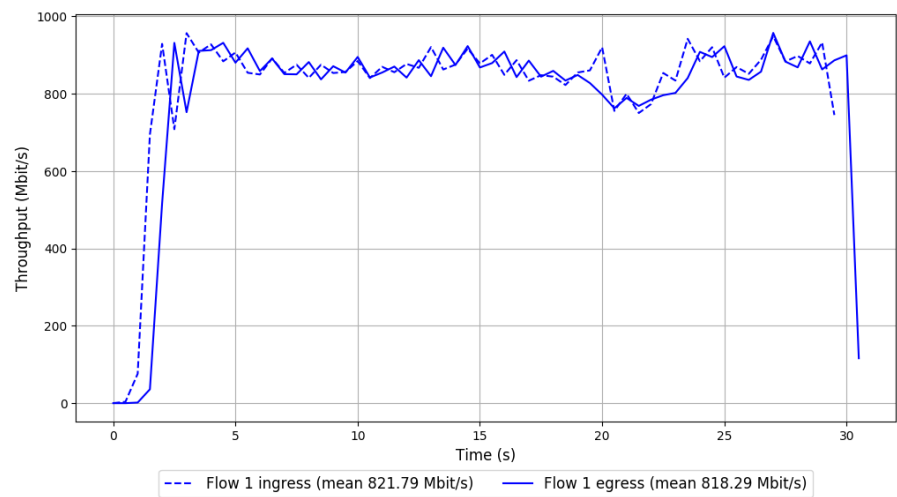
-- Flow 1:

Average throughput: 818.29 Mbit/s

95th percentile per-packet one-way delay: 150.949 ms

Loss rate: 0.42%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

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

End at: 2018-05-21 23:23:51

Local clock offset: 1.629 ms

Remote clock offset: -0.43 ms

Below is generated by plot.py at 2018-05-22 01:19:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 759.65 Mbit/s

95th percentile per-packet one-way delay: 307.725 ms

Loss rate: 2.86%

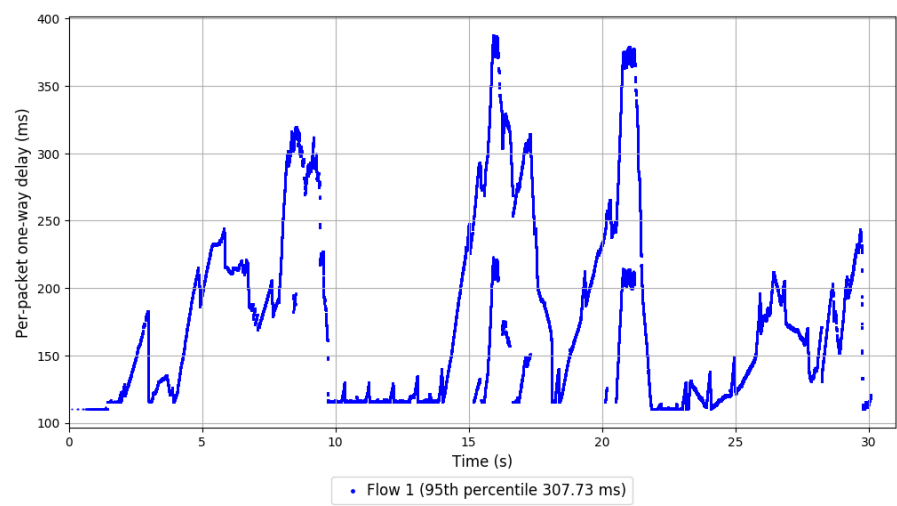
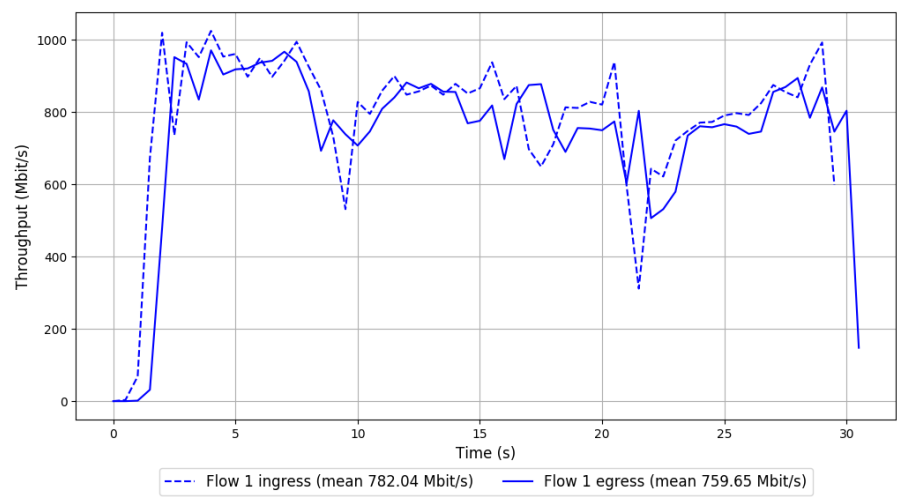
-- Flow 1:

Average throughput: 759.65 Mbit/s

95th percentile per-packet one-way delay: 307.725 ms

Loss rate: 2.86%

Run 6: Report of FillP — Data Link

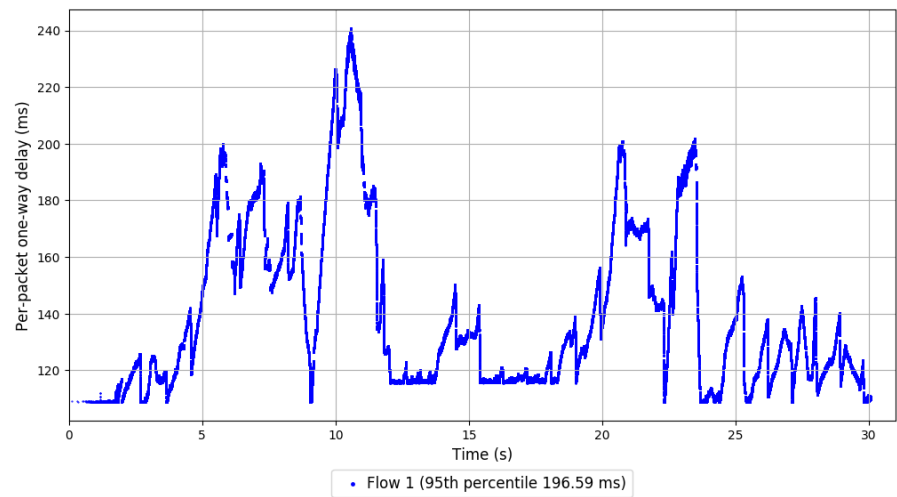
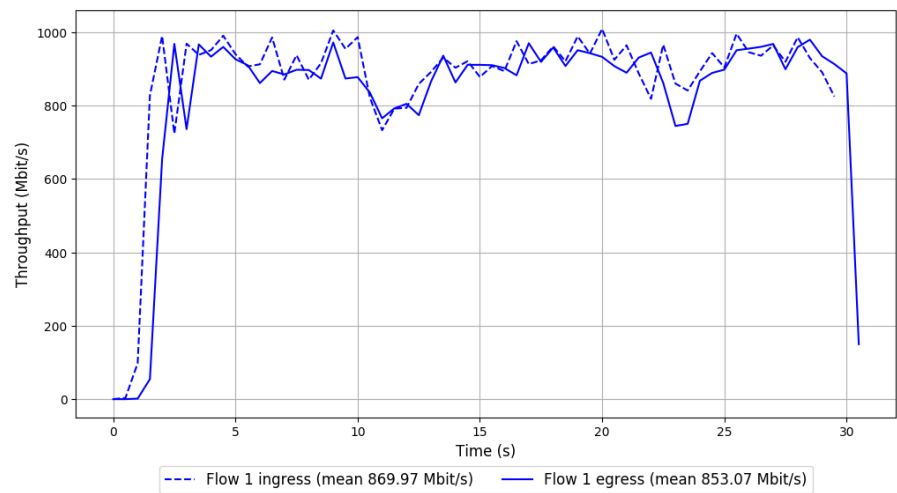


Run 7: Statistics of FillP

Start at: 2018-05-21 23:43:44
End at: 2018-05-21 23:44:14
Local clock offset: 1.204 ms
Remote clock offset: -0.104 ms

Below is generated by plot.py at 2018-05-22 01:20:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 853.07 Mbit/s
95th percentile per-packet one-way delay: 196.588 ms
Loss rate: 1.94%
-- Flow 1:
Average throughput: 853.07 Mbit/s
95th percentile per-packet one-way delay: 196.588 ms
Loss rate: 1.94%

Run 7: Report of FillP — Data Link

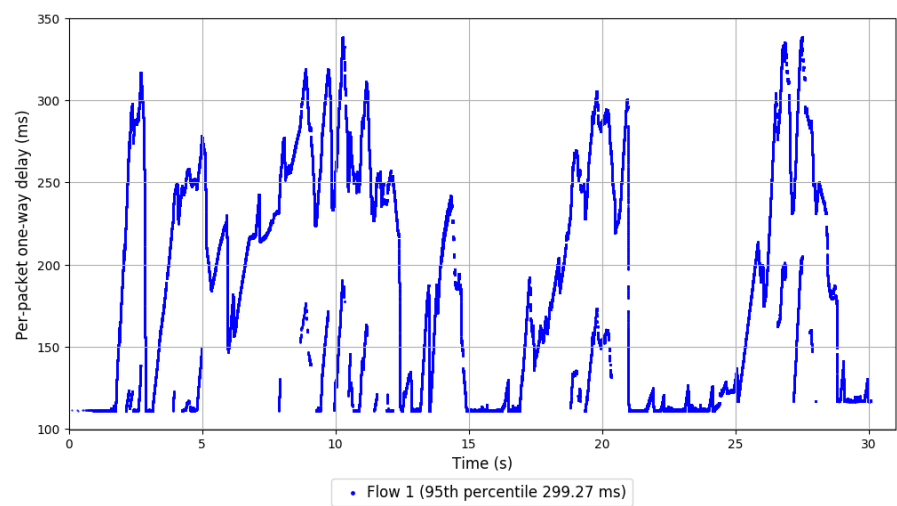
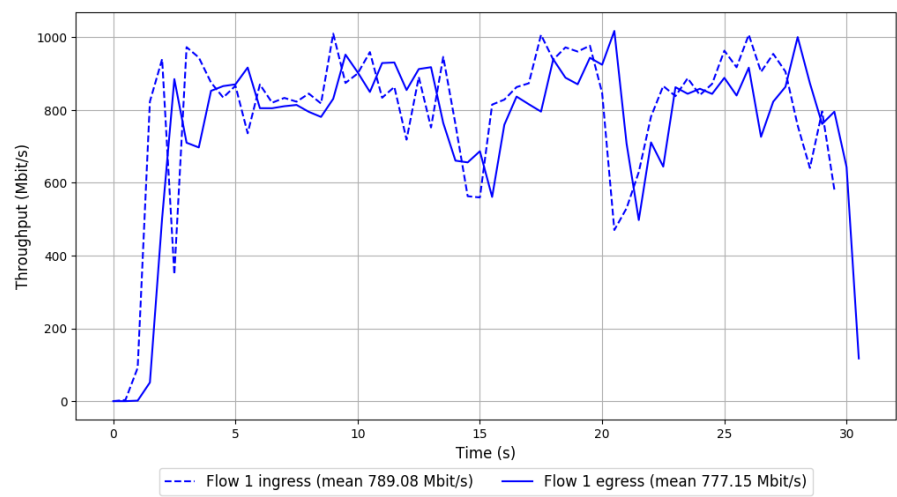


Run 8: Statistics of FillP

Start at: 2018-05-22 00:03:58
End at: 2018-05-22 00:04:28
Local clock offset: 0.477 ms
Remote clock offset: -0.038 ms

Below is generated by plot.py at 2018-05-22 01:20:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 777.15 Mbit/s
95th percentile per-packet one-way delay: 299.275 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 777.15 Mbit/s
95th percentile per-packet one-way delay: 299.275 ms
Loss rate: 1.51%

Run 8: Report of FillP — Data Link

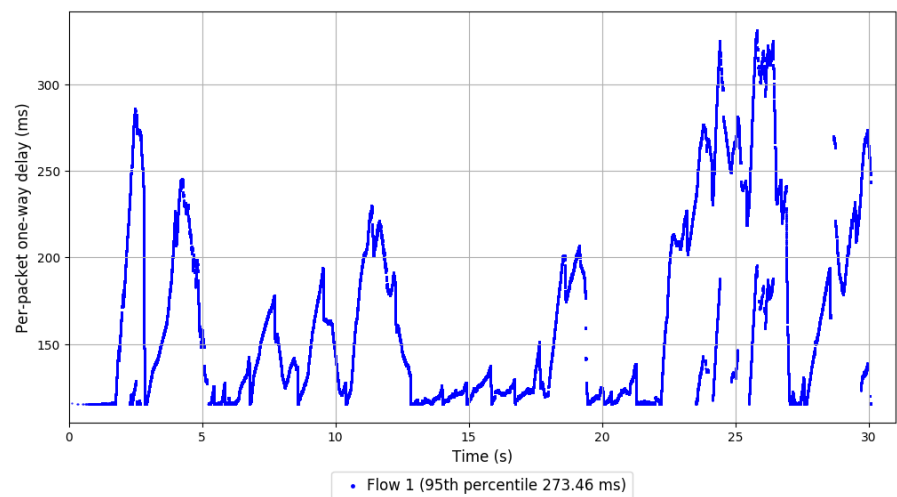
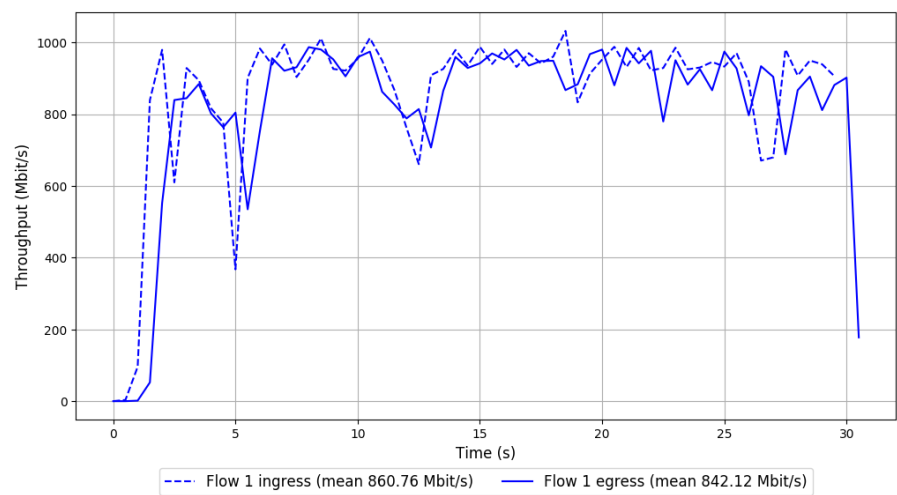


Run 9: Statistics of FillP

Start at: 2018-05-22 00:24:05
End at: 2018-05-22 00:24:36
Local clock offset: 0.281 ms
Remote clock offset: -0.076 ms

Below is generated by plot.py at 2018-05-22 01:33:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 842.12 Mbit/s
95th percentile per-packet one-way delay: 273.458 ms
Loss rate: 2.18%
-- Flow 1:
Average throughput: 842.12 Mbit/s
95th percentile per-packet one-way delay: 273.458 ms
Loss rate: 2.18%

Run 9: Report of FillP — Data Link

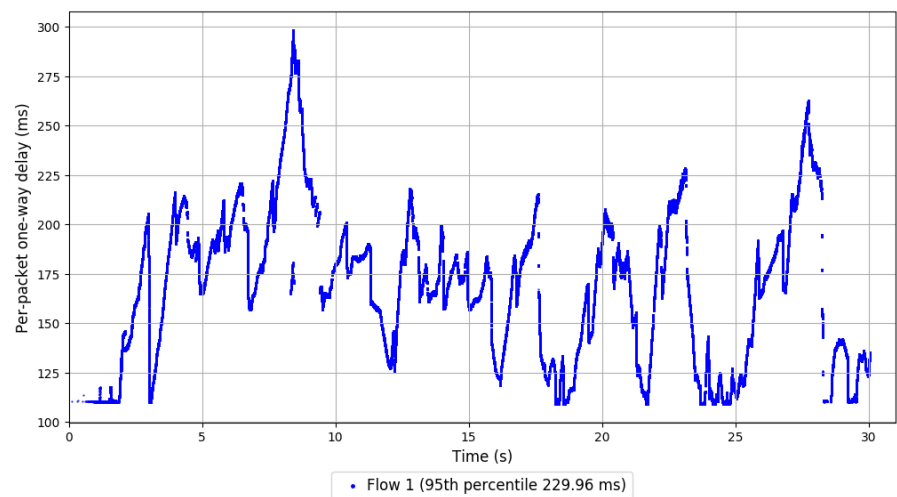
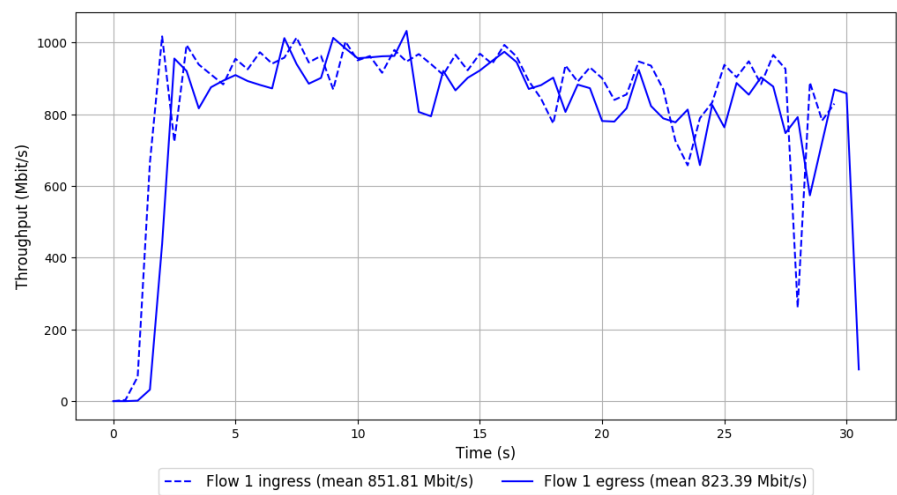


Run 10: Statistics of FillP

Start at: 2018-05-22 00:44:18
End at: 2018-05-22 00:44:48
Local clock offset: 0.463 ms
Remote clock offset: -0.554 ms

Below is generated by plot.py at 2018-05-22 01:33:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 823.39 Mbit/s
95th percentile per-packet one-way delay: 229.955 ms
Loss rate: 3.34%
-- Flow 1:
Average throughput: 823.39 Mbit/s
95th percentile per-packet one-way delay: 229.955 ms
Loss rate: 3.34%

Run 10: Report of FillP — Data Link

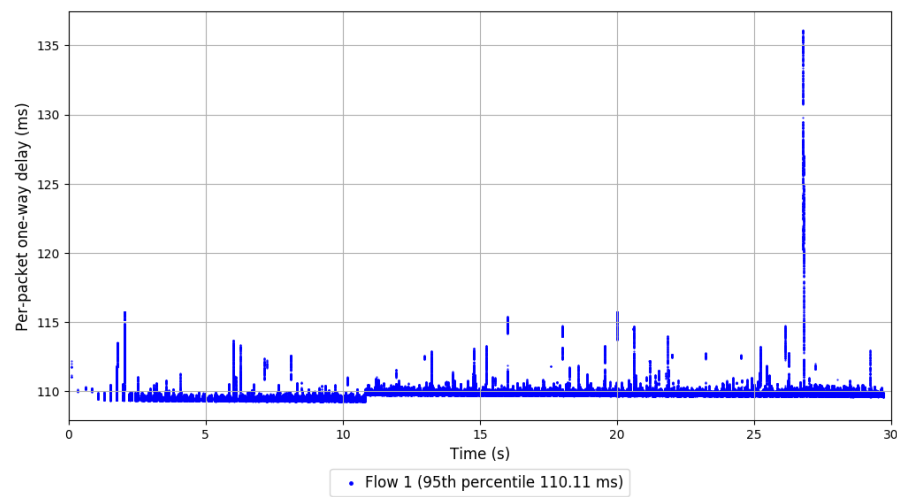
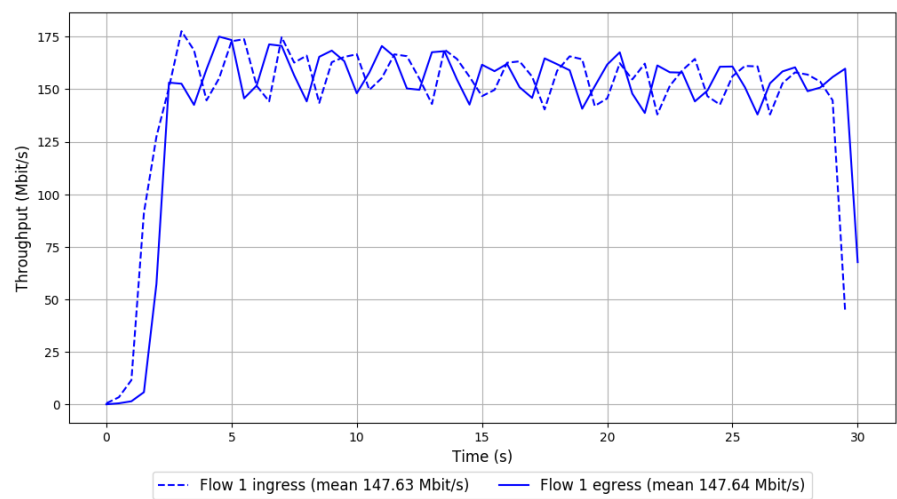


```
Run 1: Statistics of Indigo

Start at: 2018-05-21 21:38:04
End at: 2018-05-21 21:38:34
Local clock offset: 14.079 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2018-05-22 01:33:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 147.64 Mbit/s
95th percentile per-packet one-way delay: 110.115 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 147.64 Mbit/s
95th percentile per-packet one-way delay: 110.115 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-05-21 21:58:32

End at: 2018-05-21 21:59:02

Local clock offset: 19.595 ms

Remote clock offset: 0.177 ms

Below is generated by plot.py at 2018-05-22 01:33:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 163.87 Mbit/s

95th percentile per-packet one-way delay: 111.772 ms

Loss rate: 0.00%

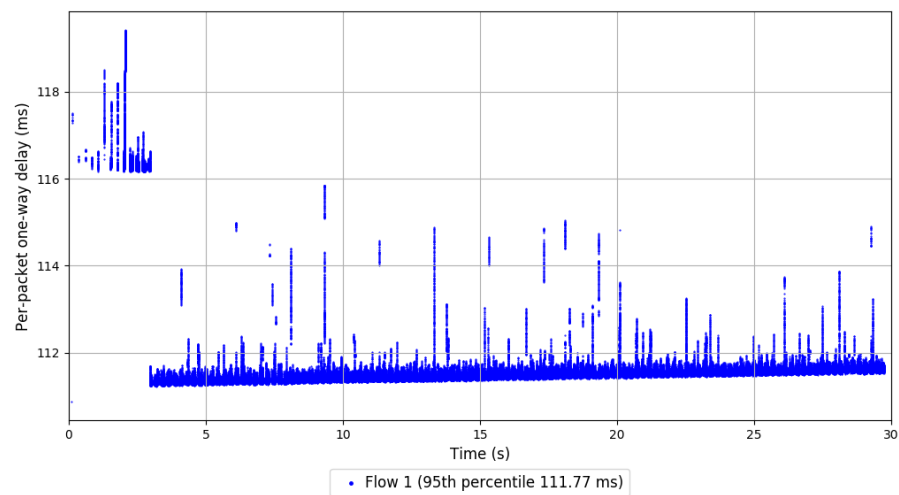
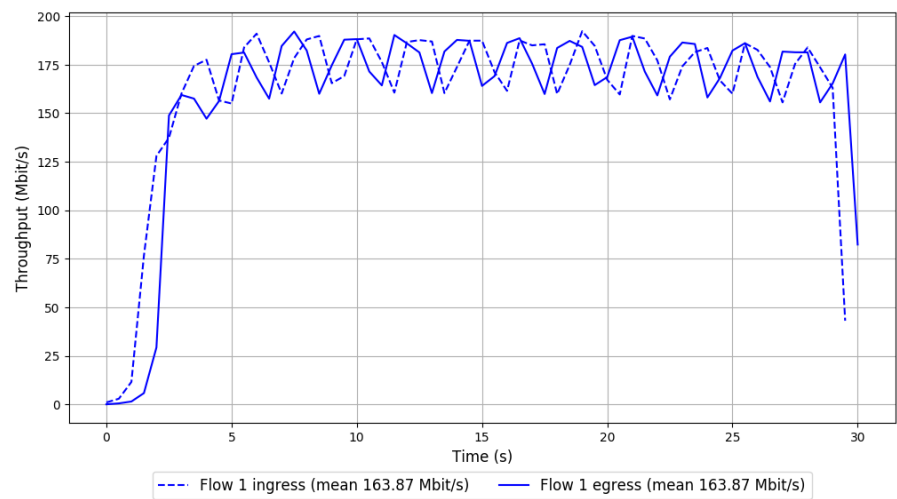
-- Flow 1:

Average throughput: 163.87 Mbit/s

95th percentile per-packet one-way delay: 111.772 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

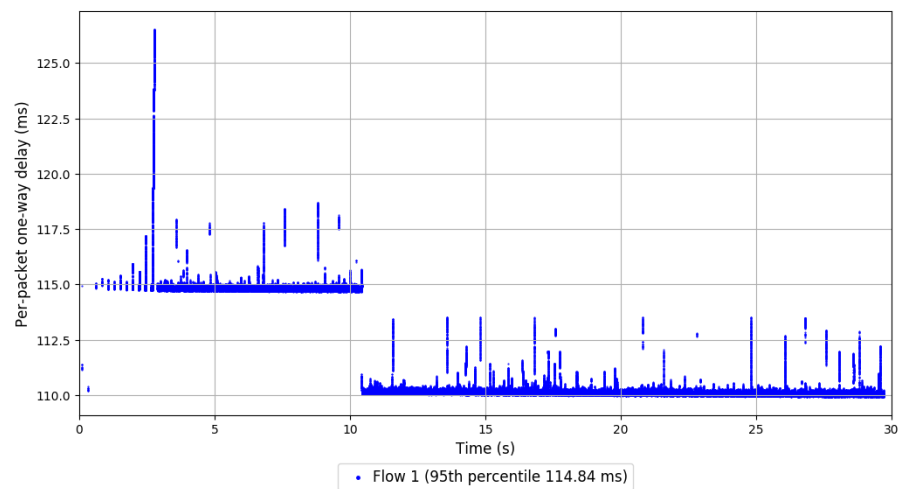
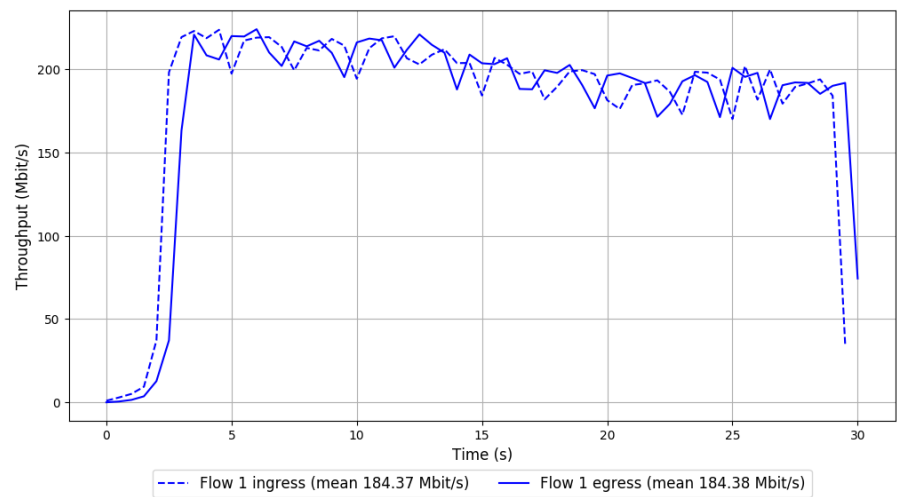


Run 3: Statistics of Indigo

Start at: 2018-05-21 22:19:24
End at: 2018-05-21 22:19:54
Local clock offset: 11.191 ms
Remote clock offset: -0.005 ms

Below is generated by plot.py at 2018-05-22 01:33:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 184.38 Mbit/s
95th percentile per-packet one-way delay: 114.840 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 184.38 Mbit/s
95th percentile per-packet one-way delay: 114.840 ms
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-05-21 22:39:57

End at: 2018-05-21 22:40:27

Local clock offset: 12.382 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2018-05-22 01:33:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 143.10 Mbit/s

95th percentile per-packet one-way delay: 122.223 ms

Loss rate: 0.00%

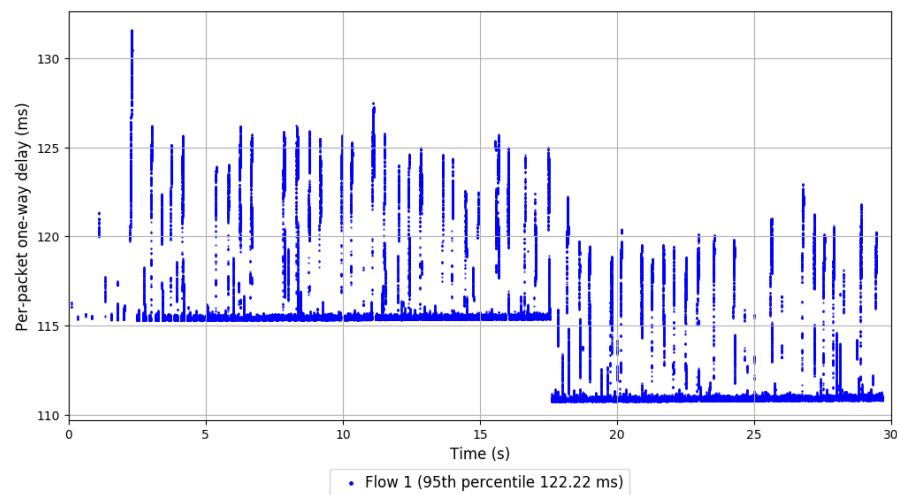
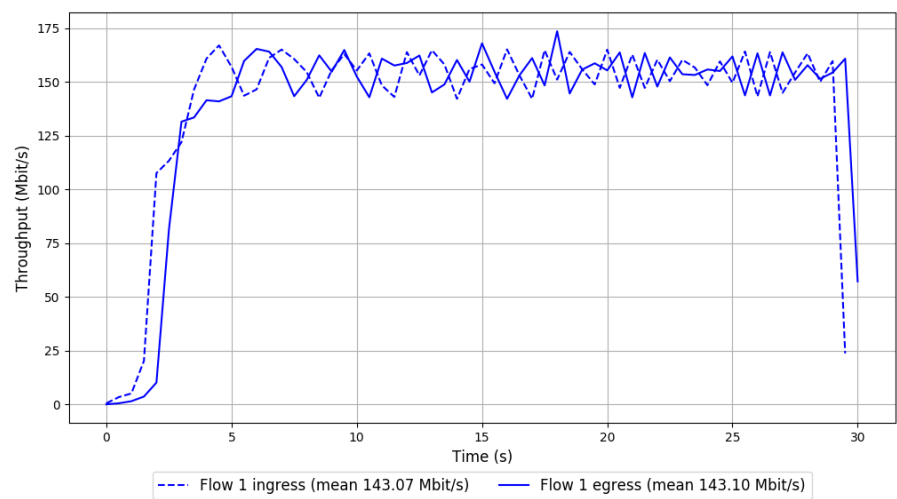
-- Flow 1:

Average throughput: 143.10 Mbit/s

95th percentile per-packet one-way delay: 122.223 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link

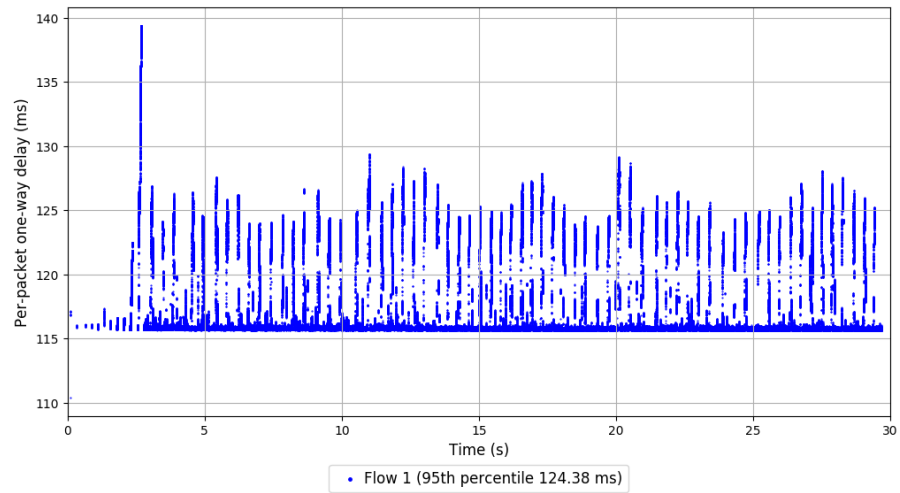
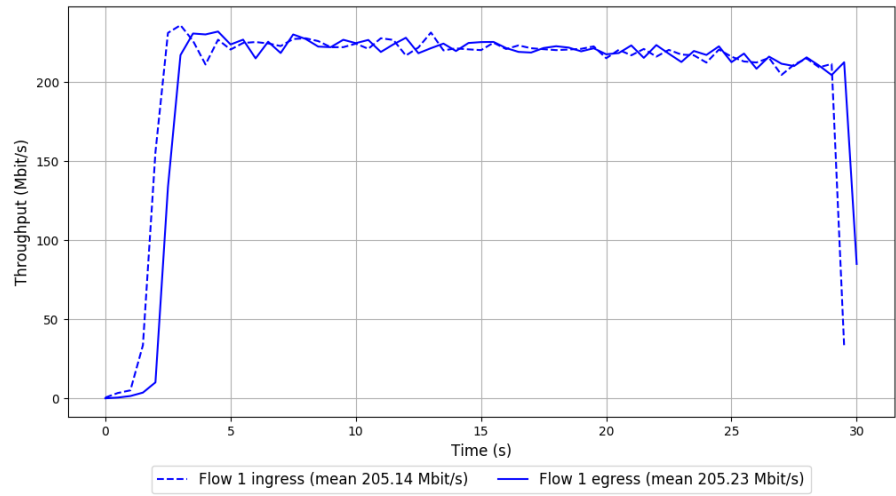


Run 5: Statistics of Indigo

Start at: 2018-05-21 23:00:13
End at: 2018-05-21 23:00:43
Local clock offset: 3.19 ms
Remote clock offset: -0.017 ms

Below is generated by plot.py at 2018-05-22 01:33:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 205.23 Mbit/s
95th percentile per-packet one-way delay: 124.382 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 205.23 Mbit/s
95th percentile per-packet one-way delay: 124.382 ms
Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-05-21 23:20:37

End at: 2018-05-21 23:21:07

Local clock offset: 2.143 ms

Remote clock offset: -0.101 ms

Below is generated by plot.py at 2018-05-22 01:33:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 143.18 Mbit/s

95th percentile per-packet one-way delay: 122.858 ms

Loss rate: 0.04%

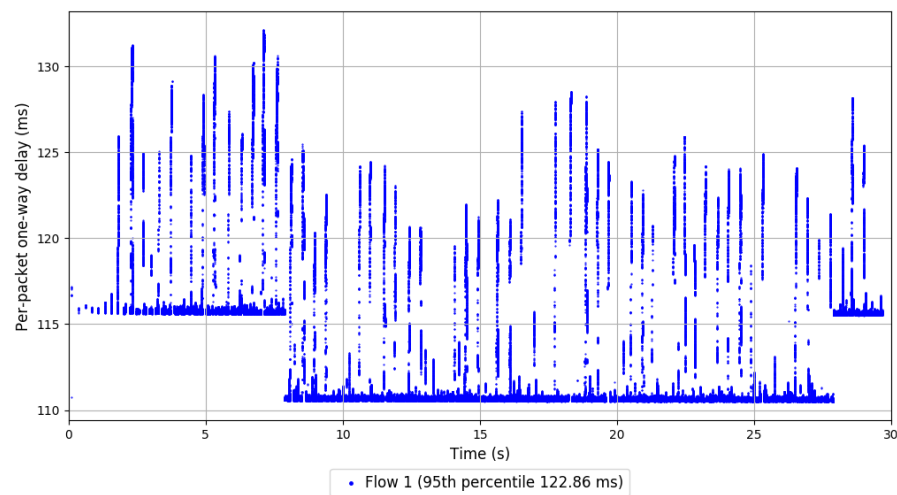
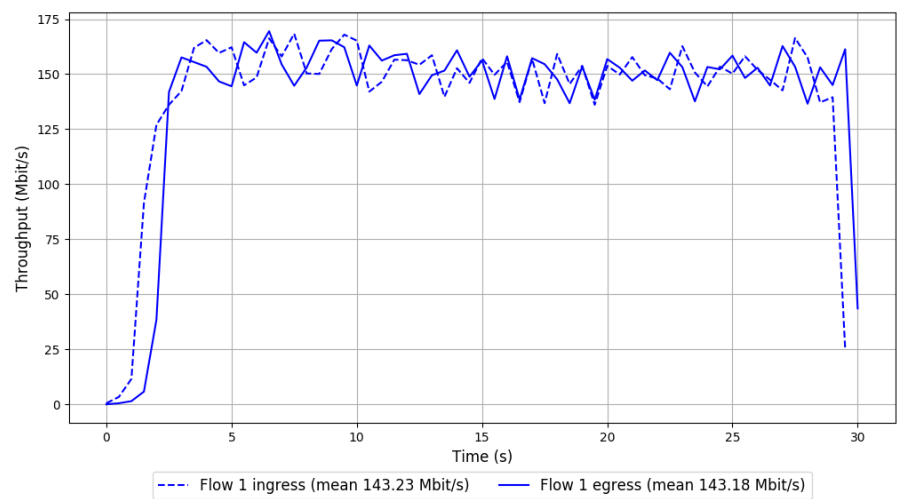
-- Flow 1:

Average throughput: 143.18 Mbit/s

95th percentile per-packet one-way delay: 122.858 ms

Loss rate: 0.04%

Run 6: Report of Indigo — Data Link

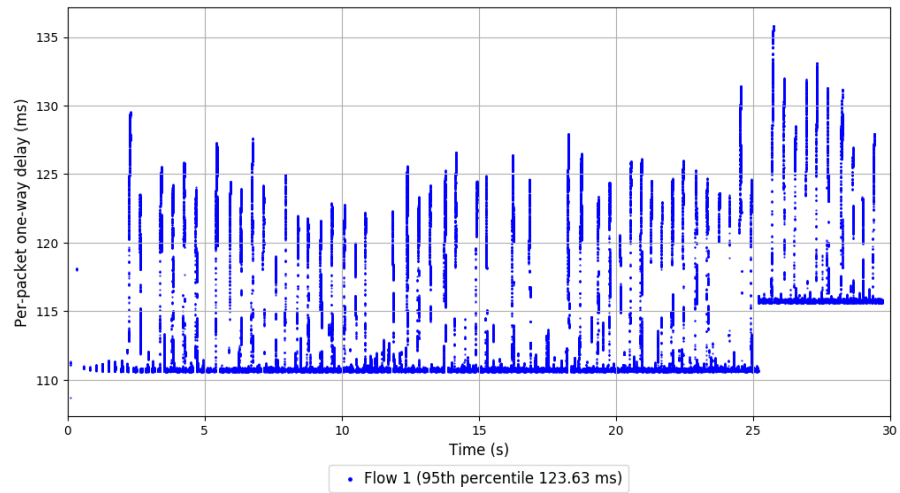
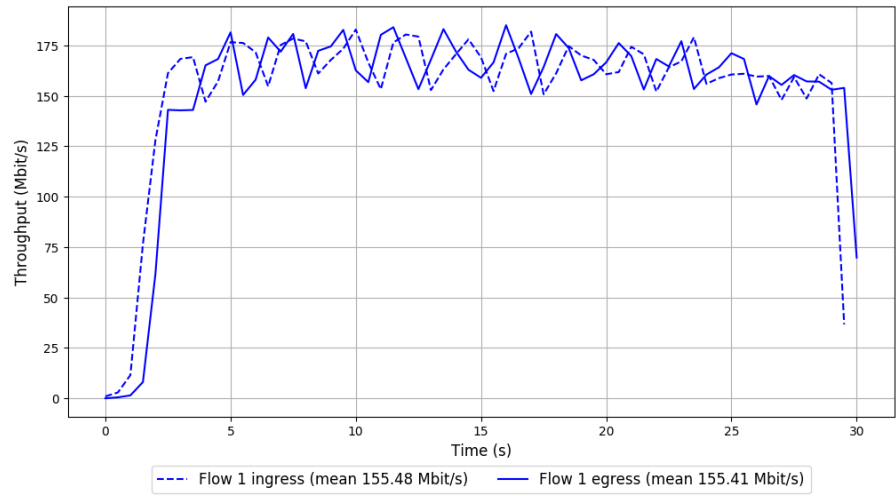


Run 7: Statistics of Indigo

Start at: 2018-05-21 23:41:00
End at: 2018-05-21 23:41:30
Local clock offset: 1.293 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-05-22 01:33:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 155.41 Mbit/s
95th percentile per-packet one-way delay: 123.631 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 155.41 Mbit/s
95th percentile per-packet one-way delay: 123.631 ms
Loss rate: 0.03%

Run 7: Report of Indigo — Data Link

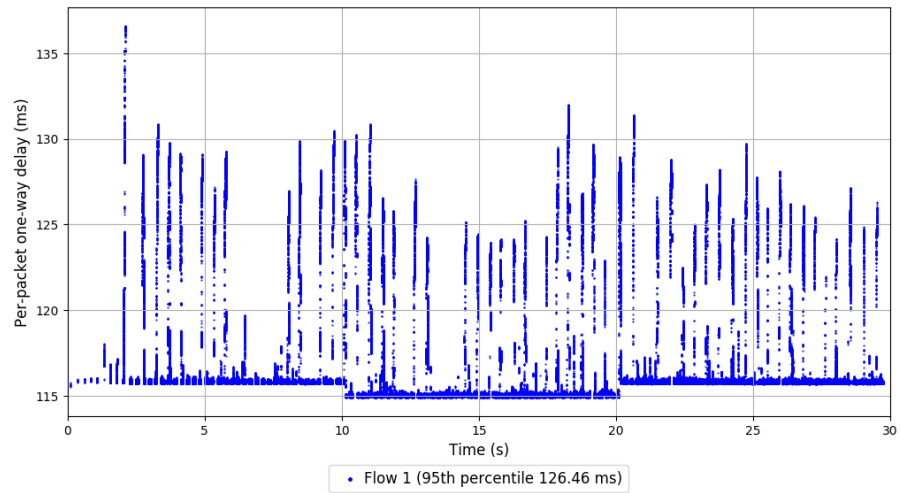
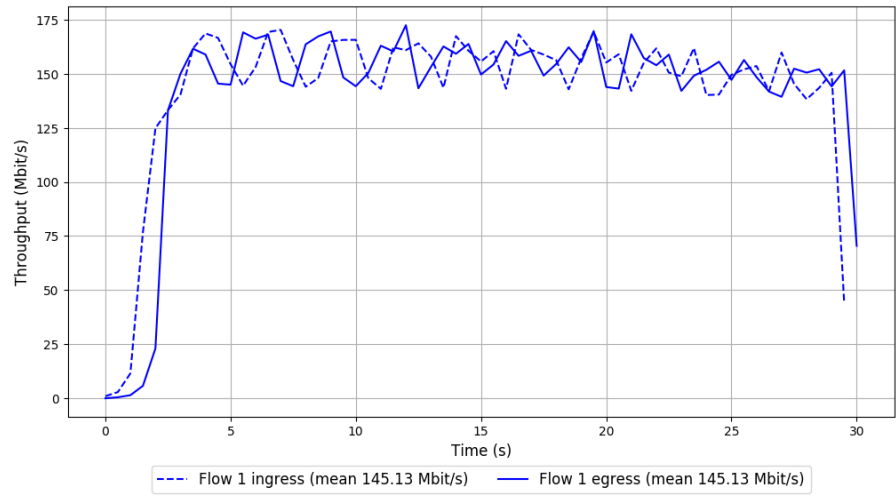


Run 8: Statistics of Indigo

Start at: 2018-05-22 00:01:15
End at: 2018-05-22 00:01:45
Local clock offset: 0.576 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2018-05-22 01:33:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 145.13 Mbit/s
95th percentile per-packet one-way delay: 126.464 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 145.13 Mbit/s
95th percentile per-packet one-way delay: 126.464 ms
Loss rate: 0.01%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-05-22 00:21:30

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

Local clock offset: 0.443 ms

Remote clock offset: -0.457 ms

Below is generated by plot.py at 2018-05-22 01:33:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 143.06 Mbit/s

95th percentile per-packet one-way delay: 125.273 ms

Loss rate: 0.01%

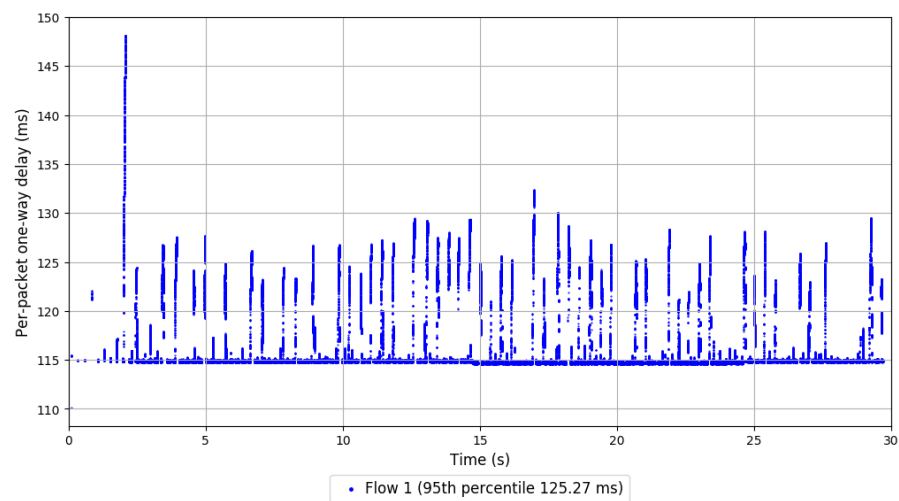
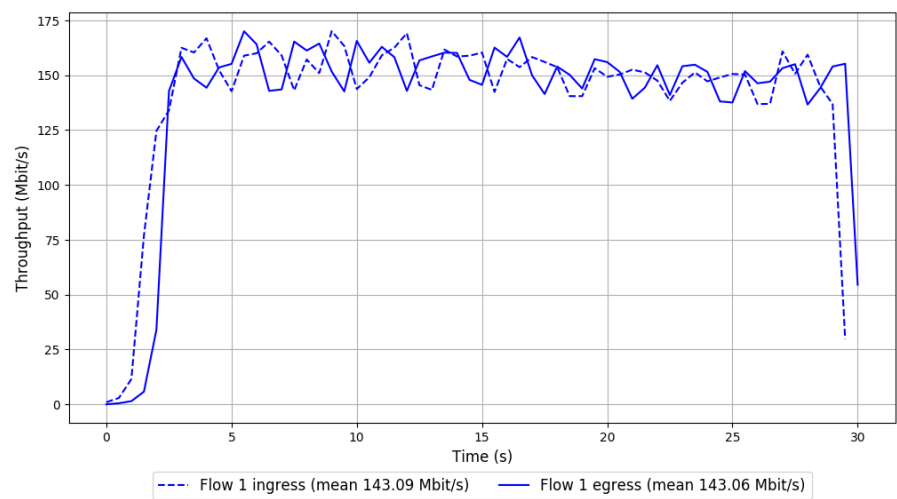
-- Flow 1:

Average throughput: 143.06 Mbit/s

95th percentile per-packet one-way delay: 125.273 ms

Loss rate: 0.01%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-05-22 00:41:42

End at: 2018-05-22 00:42:12

Local clock offset: 0.505 ms

Remote clock offset: -0.111 ms

Below is generated by plot.py at 2018-05-22 01:33:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 142.61 Mbit/s

95th percentile per-packet one-way delay: 126.373 ms

Loss rate: 0.00%

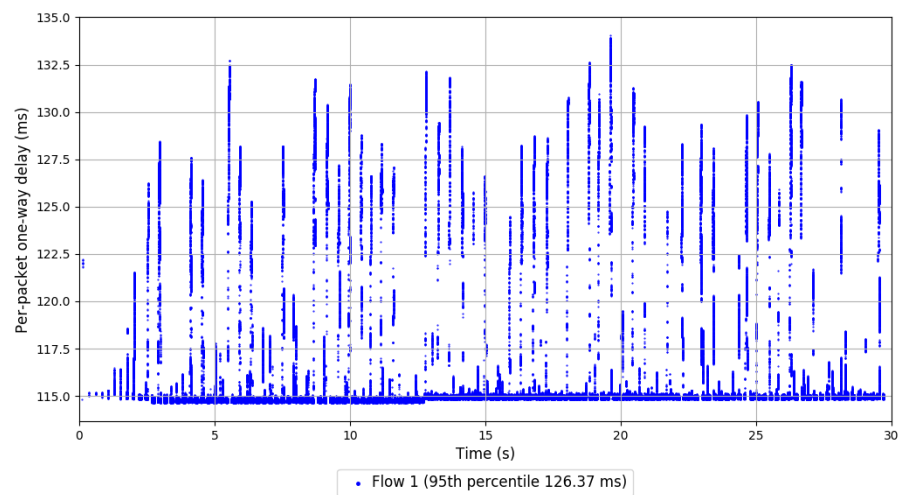
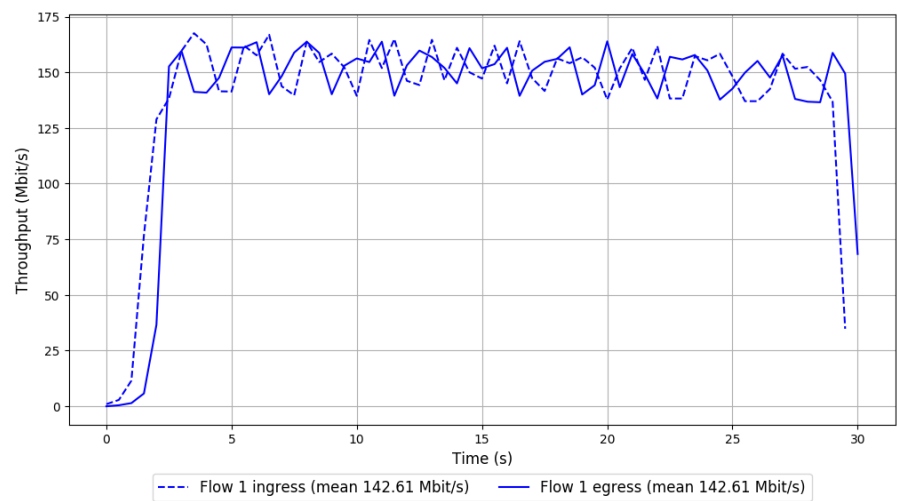
-- Flow 1:

Average throughput: 142.61 Mbit/s

95th percentile per-packet one-way delay: 126.373 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link



Run 1: Statistics of LEDBAT

Start at: 2018-05-21 21:46:29

End at: 2018-05-21 21:46:59

Local clock offset: 13.429 ms

Remote clock offset: 0.058 ms

Below is generated by plot.py at 2018-05-22 01:33:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.86 Mbit/s

95th percentile per-packet one-way delay: 117.351 ms

Loss rate: 0.00%

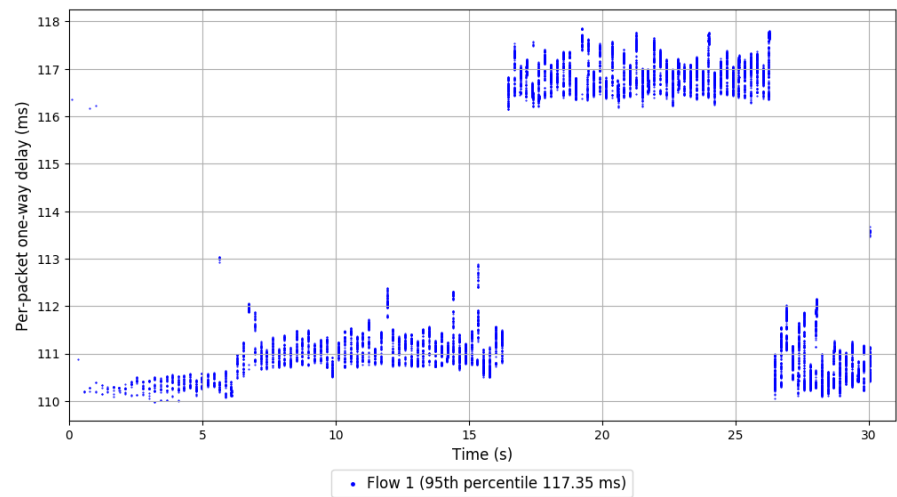
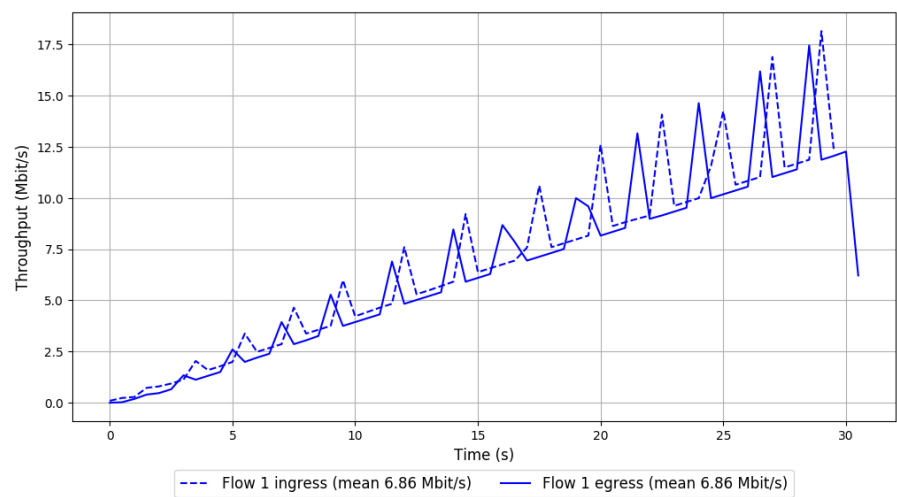
-- Flow 1:

Average throughput: 6.86 Mbit/s

95th percentile per-packet one-way delay: 117.351 ms

Loss rate: 0.00%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-05-21 22:07:04

End at: 2018-05-21 22:07:34

Local clock offset: 25.317 ms

Remote clock offset: 0.09 ms

Below is generated by plot.py at 2018-05-22 01:33:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.41 Mbit/s

95th percentile per-packet one-way delay: 117.972 ms

Loss rate: 0.00%

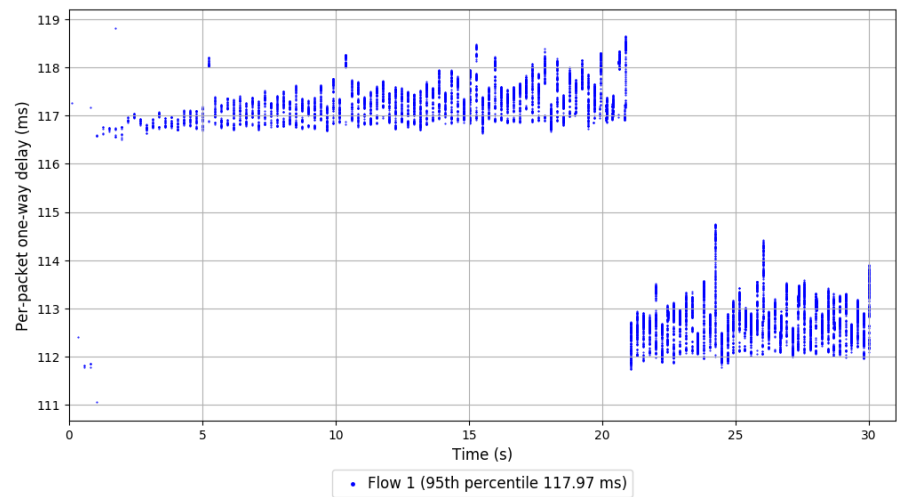
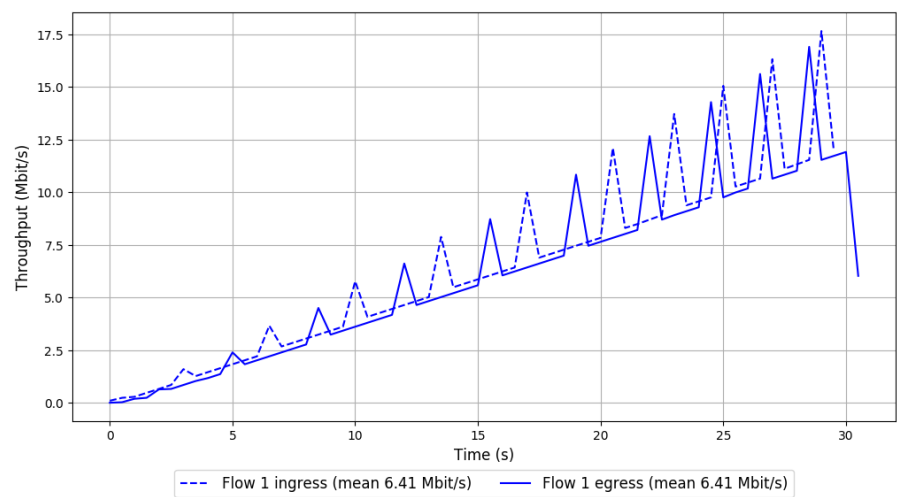
-- Flow 1:

Average throughput: 6.41 Mbit/s

95th percentile per-packet one-way delay: 117.972 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-05-21 22:27:53

End at: 2018-05-21 22:28:23

Local clock offset: 9.911 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2018-05-22 01:33:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.71 Mbit/s

95th percentile per-packet one-way delay: 115.879 ms

Loss rate: 0.00%

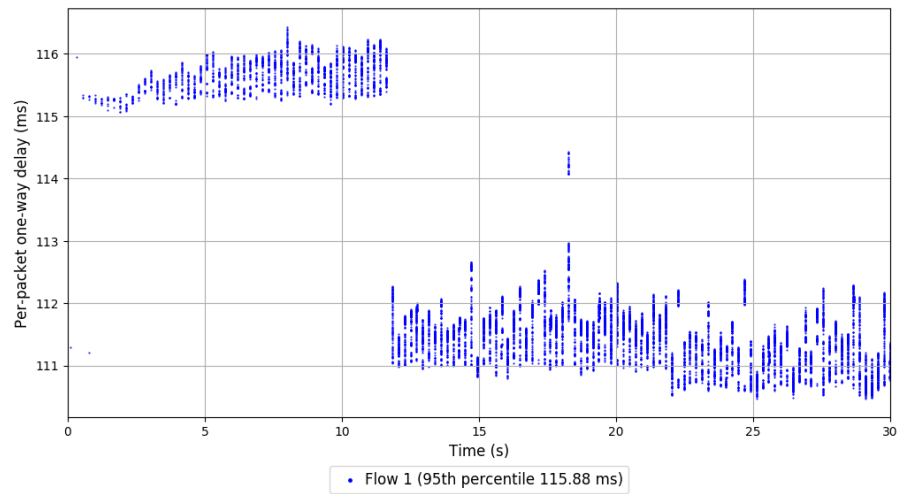
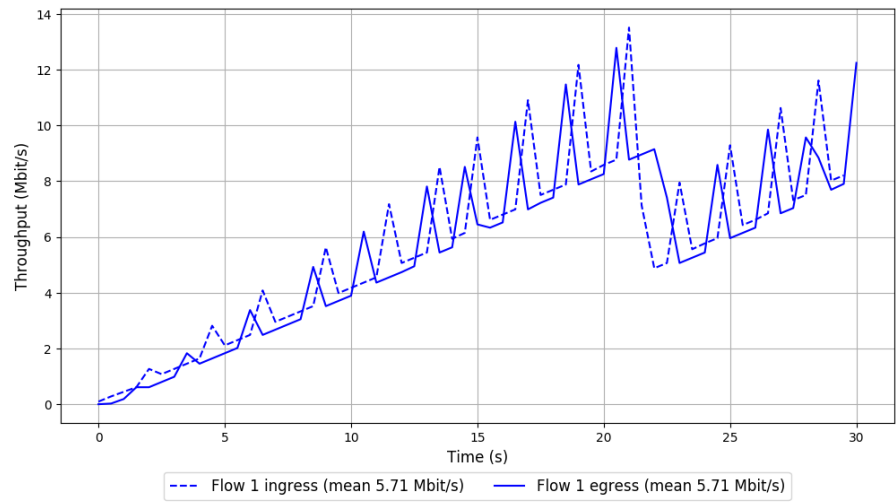
-- Flow 1:

Average throughput: 5.71 Mbit/s

95th percentile per-packet one-way delay: 115.879 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

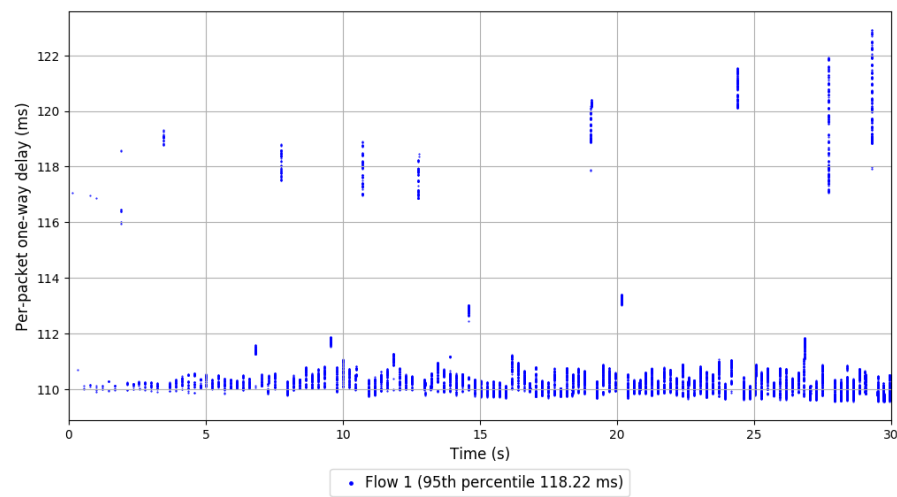
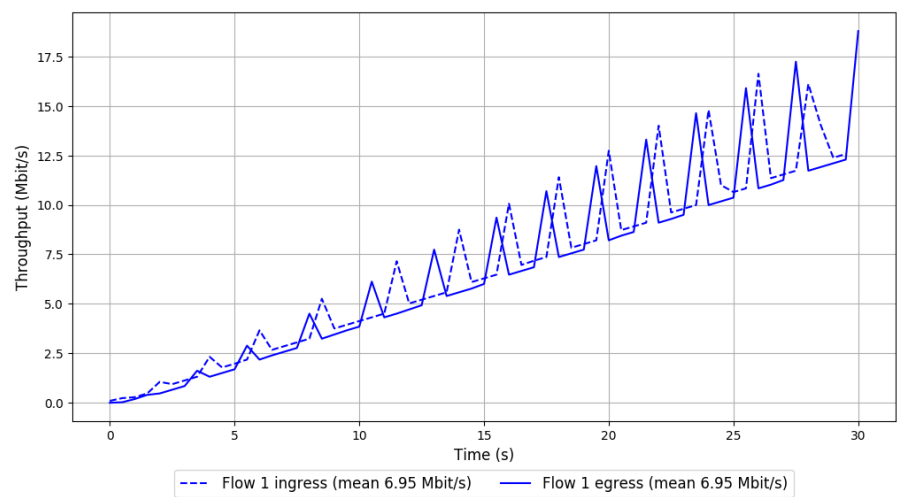


Run 4: Statistics of LEDBAT

Start at: 2018-05-21 22:48:12
End at: 2018-05-21 22:48:42
Local clock offset: 7.304 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2018-05-22 01:33:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.95 Mbit/s
95th percentile per-packet one-way delay: 118.217 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.95 Mbit/s
95th percentile per-packet one-way delay: 118.217 ms
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

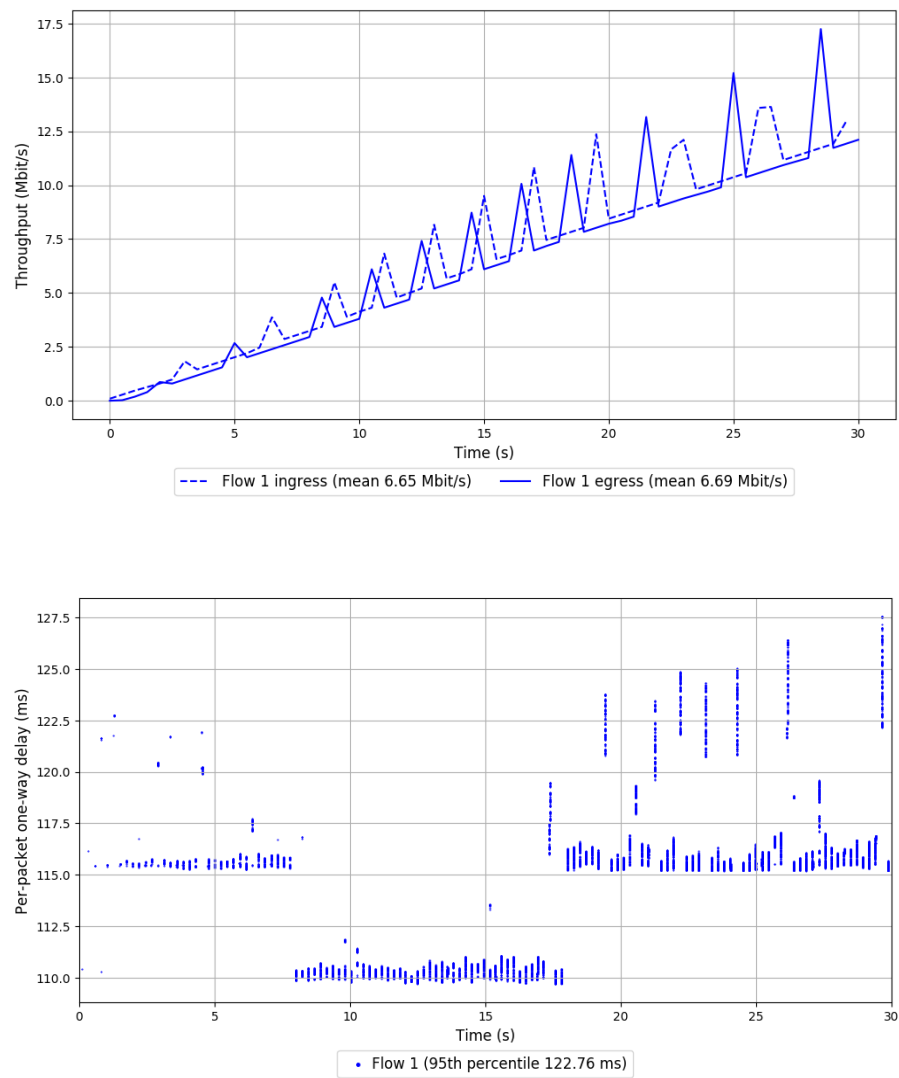


Run 5: Statistics of LEDBAT

Start at: 2018-05-21 23:08:47
End at: 2018-05-21 23:09:17
Local clock offset: 3.042 ms
Remote clock offset: -0.423 ms

Below is generated by plot.py at 2018-05-22 01:33:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.69 Mbit/s
95th percentile per-packet one-way delay: 122.757 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 6.69 Mbit/s
95th percentile per-packet one-way delay: 122.757 ms
Loss rate: 0.21%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-05-21 23:29:04

End at: 2018-05-21 23:29:34

Local clock offset: 1.044 ms

Remote clock offset: -0.08 ms

Below is generated by plot.py at 2018-05-22 01:33:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.15 Mbit/s

95th percentile per-packet one-way delay: 118.881 ms

Loss rate: 0.00%

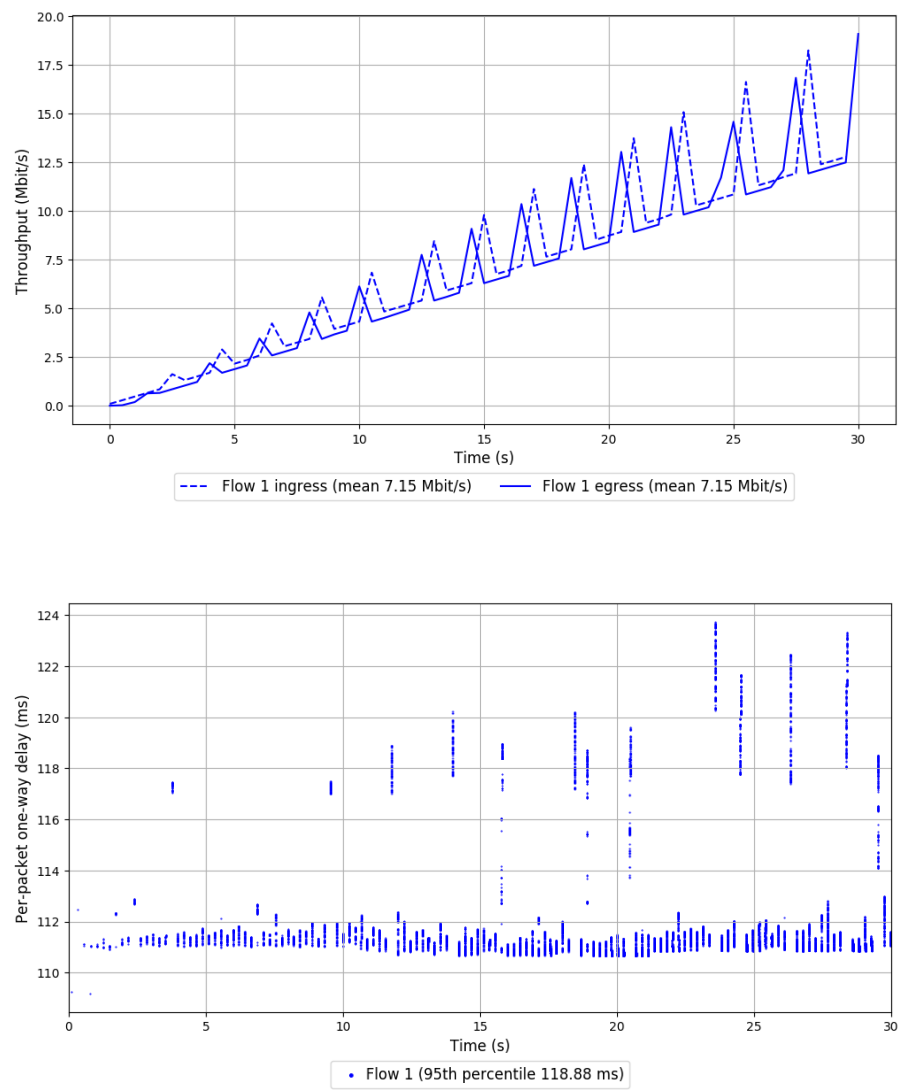
-- Flow 1:

Average throughput: 7.15 Mbit/s

95th percentile per-packet one-way delay: 118.881 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-05-21 23:49:29

End at: 2018-05-21 23:49:59

Local clock offset: 1.133 ms

Remote clock offset: 0.307 ms

Below is generated by plot.py at 2018-05-22 01:33:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.78 Mbit/s

95th percentile per-packet one-way delay: 123.856 ms

Loss rate: 0.00%

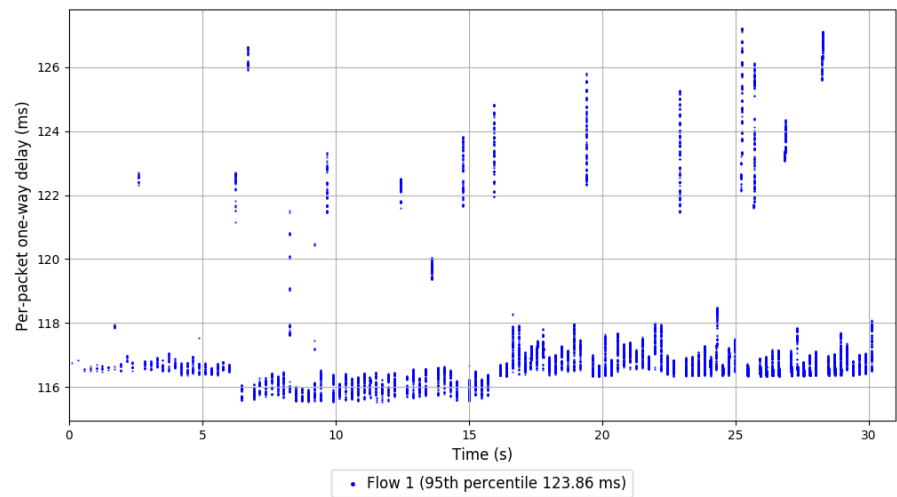
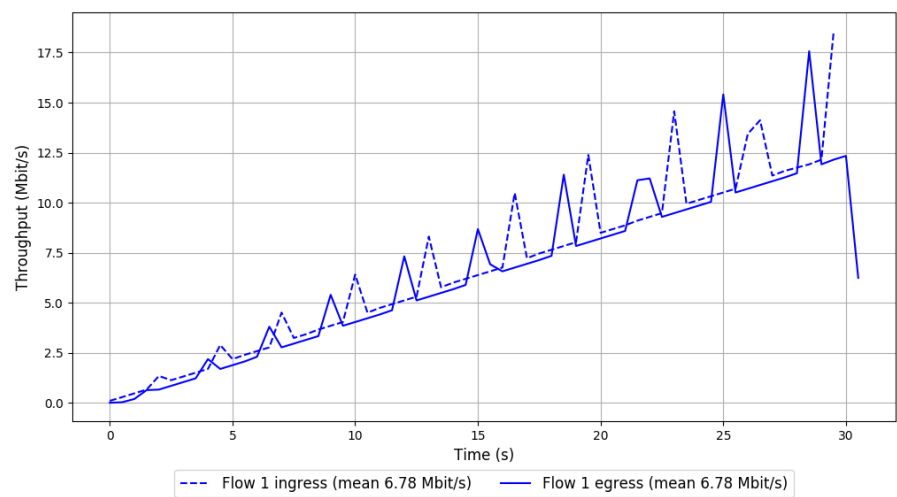
-- Flow 1:

Average throughput: 6.78 Mbit/s

95th percentile per-packet one-way delay: 123.856 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link

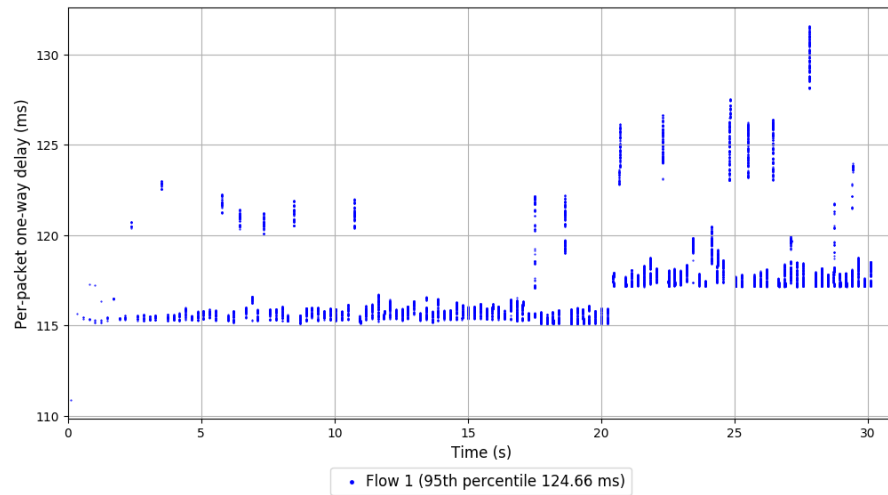
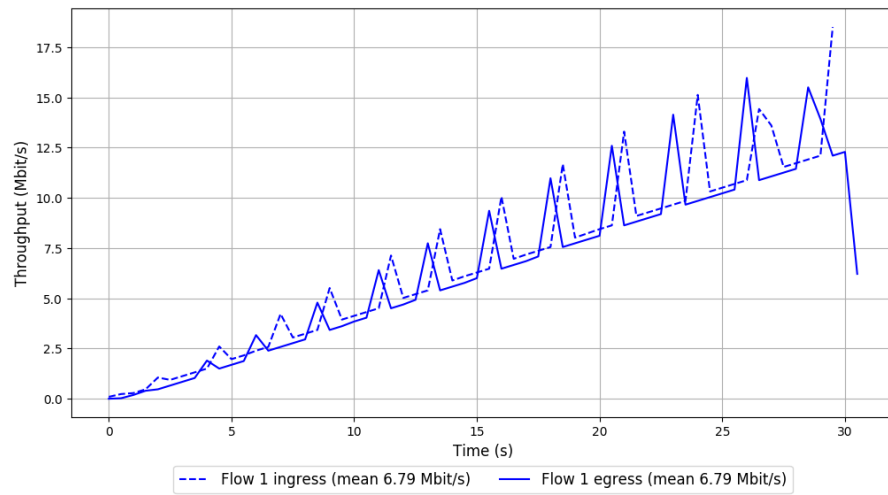


Run 8: Statistics of LEDBAT

Start at: 2018-05-22 00:09:45
End at: 2018-05-22 00:10:15
Local clock offset: 0.358 ms
Remote clock offset: -0.051 ms

Below is generated by plot.py at 2018-05-22 01:33:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.79 Mbit/s
95th percentile per-packet one-way delay: 124.660 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.79 Mbit/s
95th percentile per-packet one-way delay: 124.660 ms
Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link

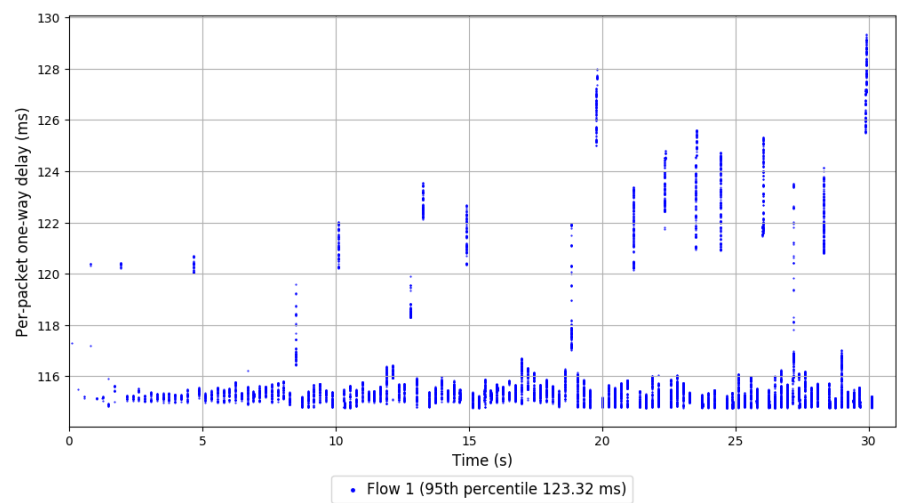
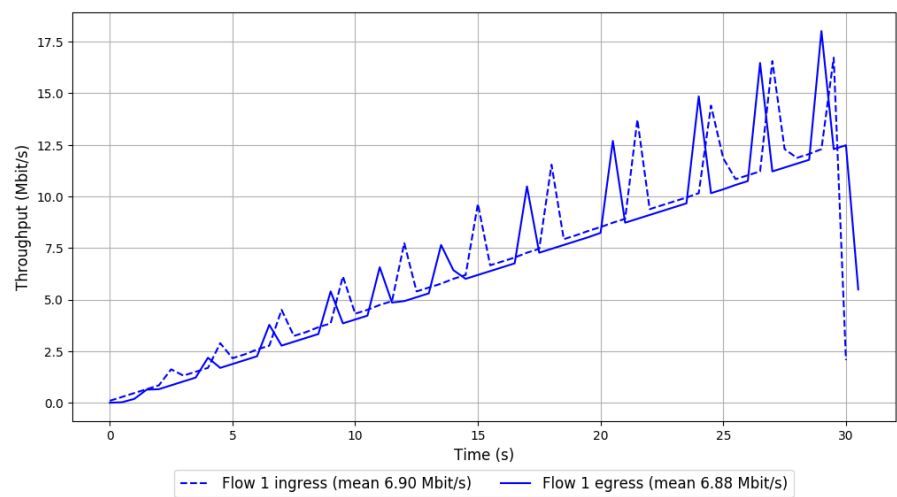


Run 9: Statistics of LEDBAT

Start at: 2018-05-22 00:29:54
End at: 2018-05-22 00:30:24
Local clock offset: 0.052 ms
Remote clock offset: -0.507 ms

Below is generated by plot.py at 2018-05-22 01:33:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.88 Mbit/s
95th percentile per-packet one-way delay: 123.323 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 6.88 Mbit/s
95th percentile per-packet one-way delay: 123.323 ms
Loss rate: 0.20%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-05-22 00:49:57

End at: 2018-05-22 00:50:28

Local clock offset: 0.286 ms

Remote clock offset: -0.18 ms

Below is generated by plot.py at 2018-05-22 01:33:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.84 Mbit/s

95th percentile per-packet one-way delay: 120.717 ms

Loss rate: 0.00%

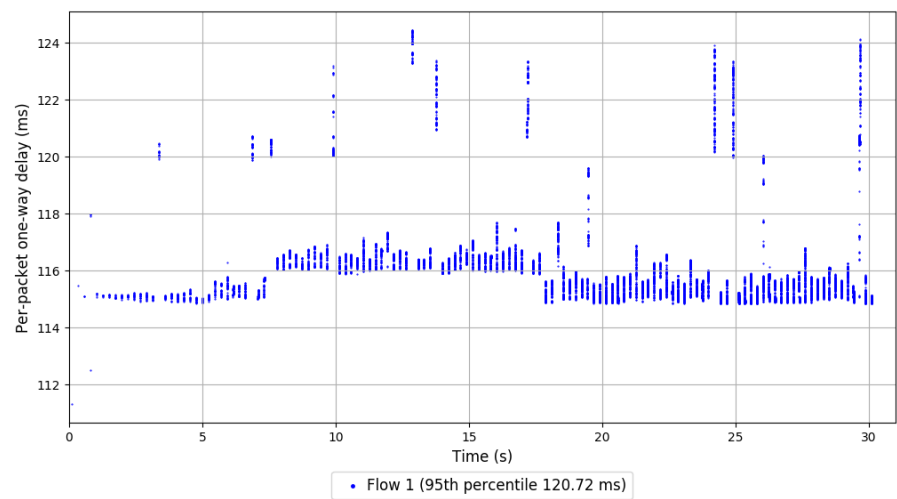
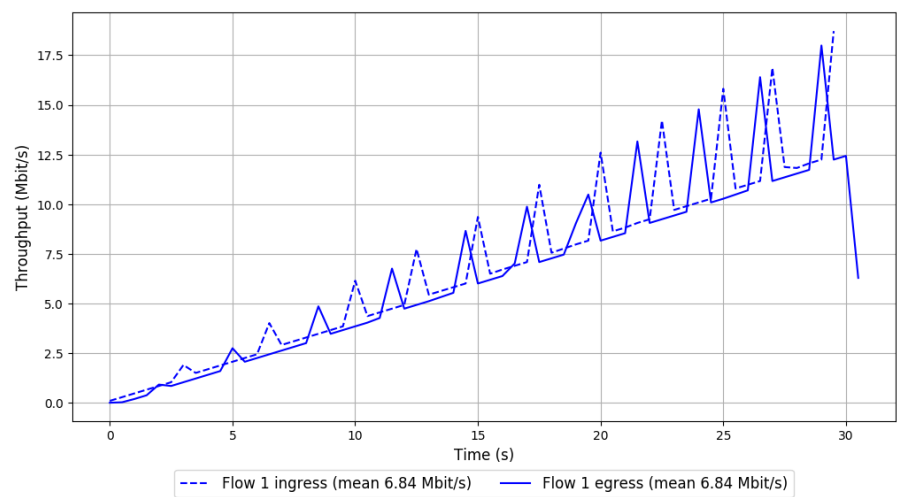
-- Flow 1:

Average throughput: 6.84 Mbit/s

95th percentile per-packet one-way delay: 120.717 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-05-21 21:39:23

End at: 2018-05-21 21:39:53

Local clock offset: 13.062 ms

Remote clock offset: -0.018 ms

Below is generated by plot.py at 2018-05-22 01:33:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 531.40 Mbit/s

95th percentile per-packet one-way delay: 150.386 ms

Loss rate: 0.70%

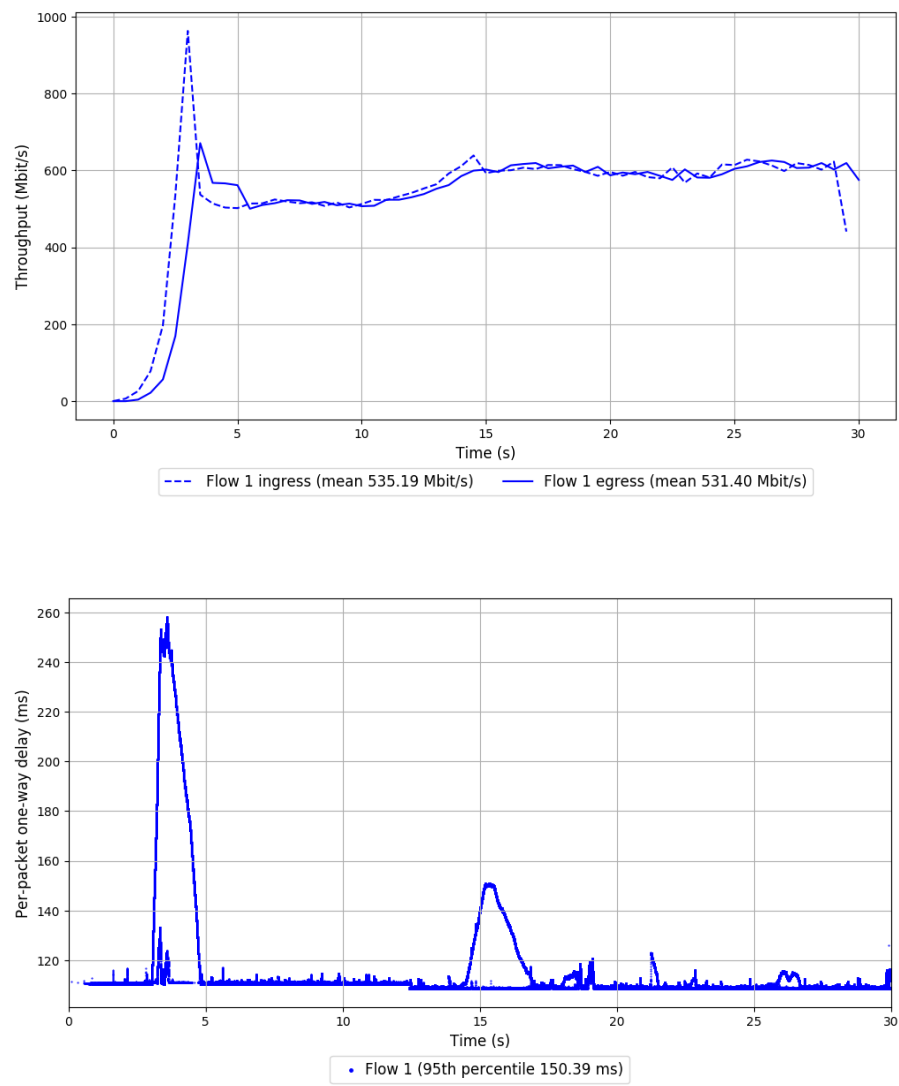
-- Flow 1:

Average throughput: 531.40 Mbit/s

95th percentile per-packet one-way delay: 150.386 ms

Loss rate: 0.70%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-21 21:59:51

End at: 2018-05-21 22:00:21

Local clock offset: 20.333 ms

Remote clock offset: 0.142 ms

Below is generated by plot.py at 2018-05-22 01:33:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 549.79 Mbit/s

95th percentile per-packet one-way delay: 156.494 ms

Loss rate: 0.63%

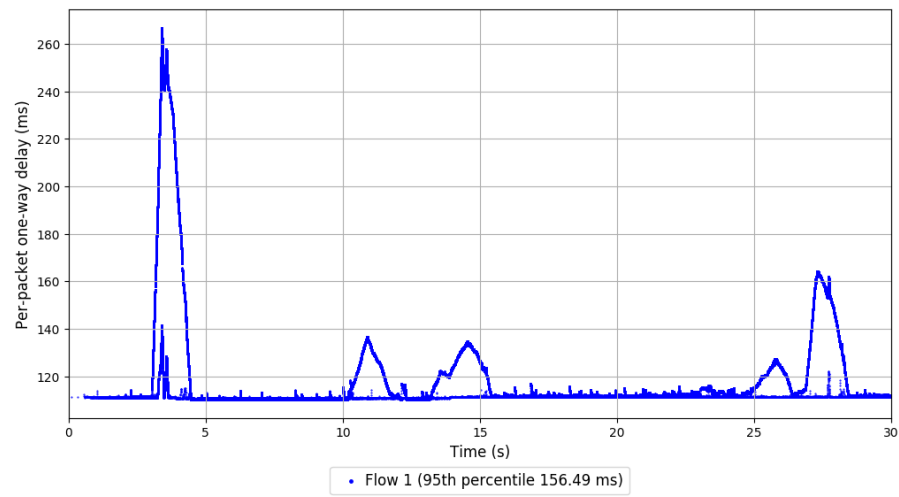
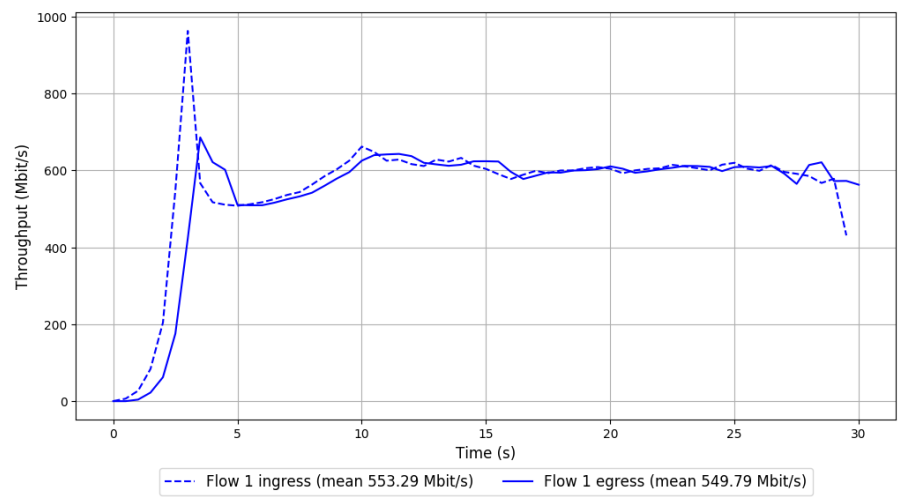
-- Flow 1:

Average throughput: 549.79 Mbit/s

95th percentile per-packet one-way delay: 156.494 ms

Loss rate: 0.63%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-05-21 22:20:44

End at: 2018-05-21 22:21:15

Local clock offset: 10.652 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2018-05-22 01:33:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 471.79 Mbit/s

95th percentile per-packet one-way delay: 264.180 ms

Loss rate: 3.82%

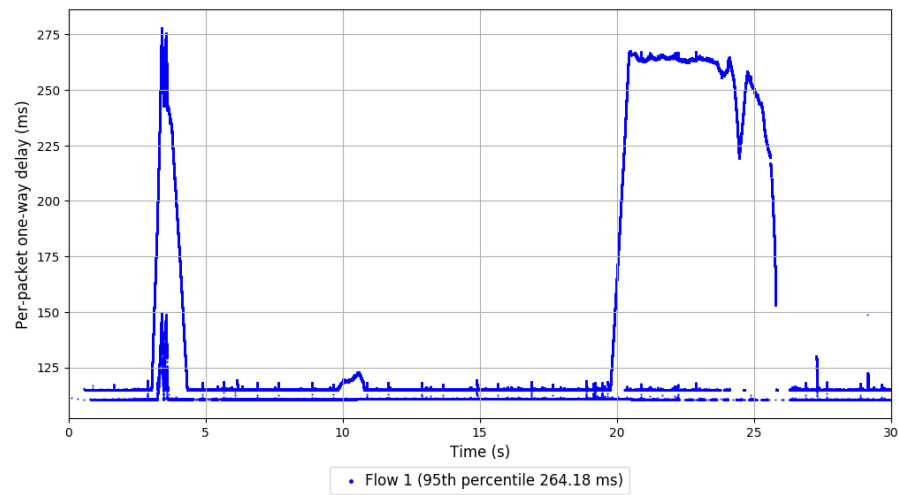
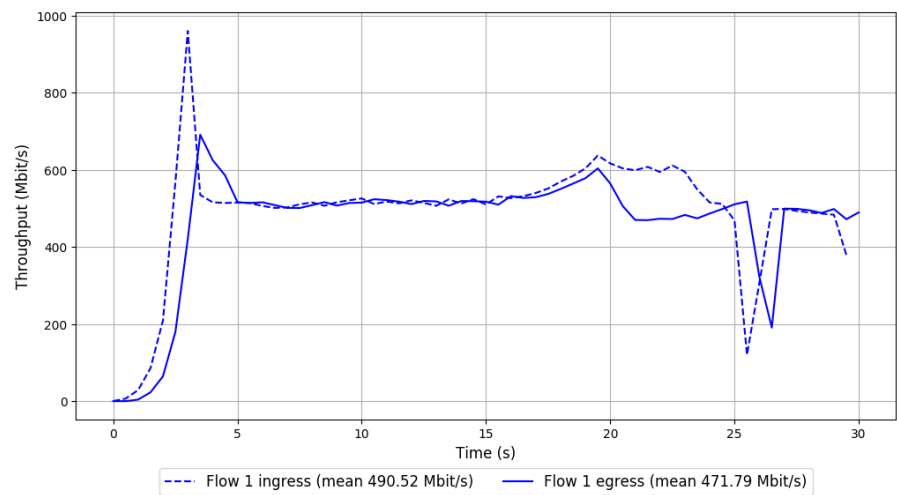
-- Flow 1:

Average throughput: 471.79 Mbit/s

95th percentile per-packet one-way delay: 264.180 ms

Loss rate: 3.82%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-05-21 22:41:15

End at: 2018-05-21 22:41:45

Local clock offset: 13.288 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2018-05-22 01:33:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 459.30 Mbit/s

95th percentile per-packet one-way delay: 254.853 ms

Loss rate: 2.14%

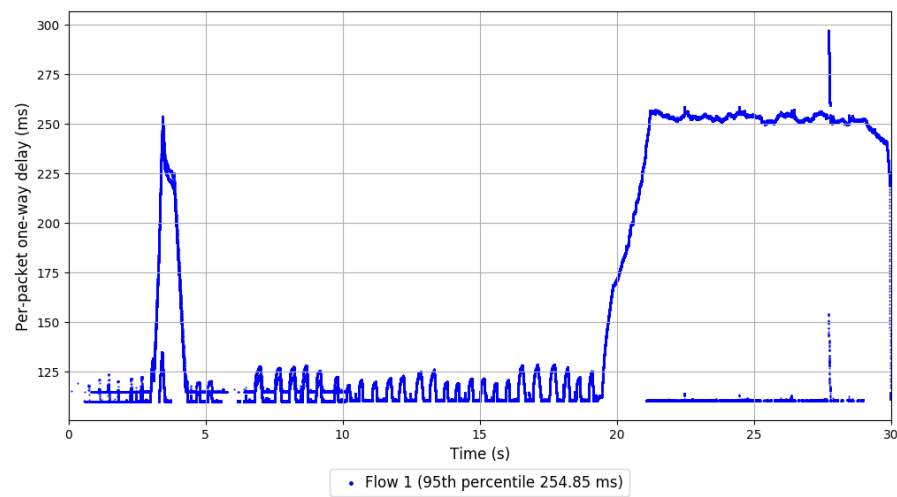
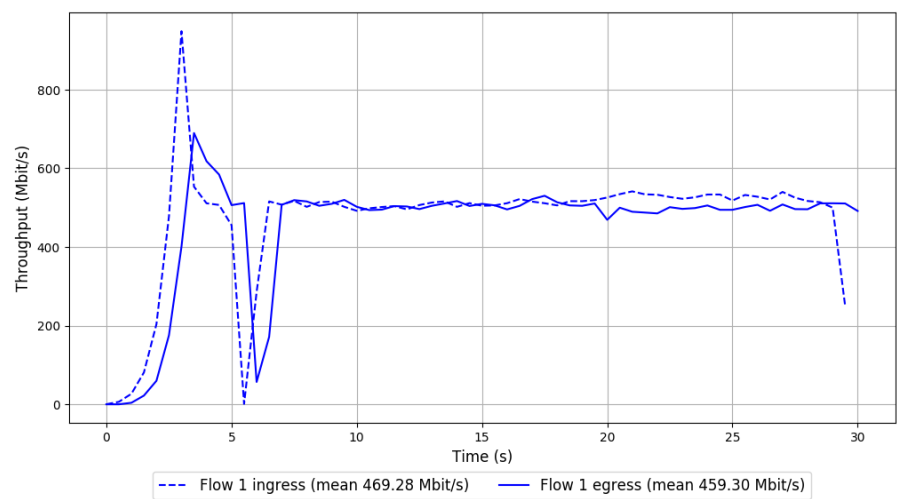
-- Flow 1:

Average throughput: 459.30 Mbit/s

95th percentile per-packet one-way delay: 254.853 ms

Loss rate: 2.14%

Run 4: Report of PCC-Allegro — Data Link

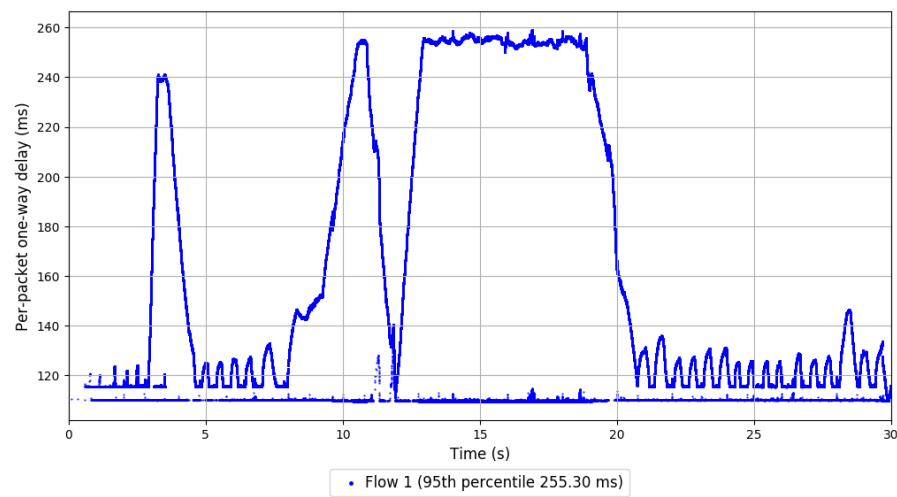
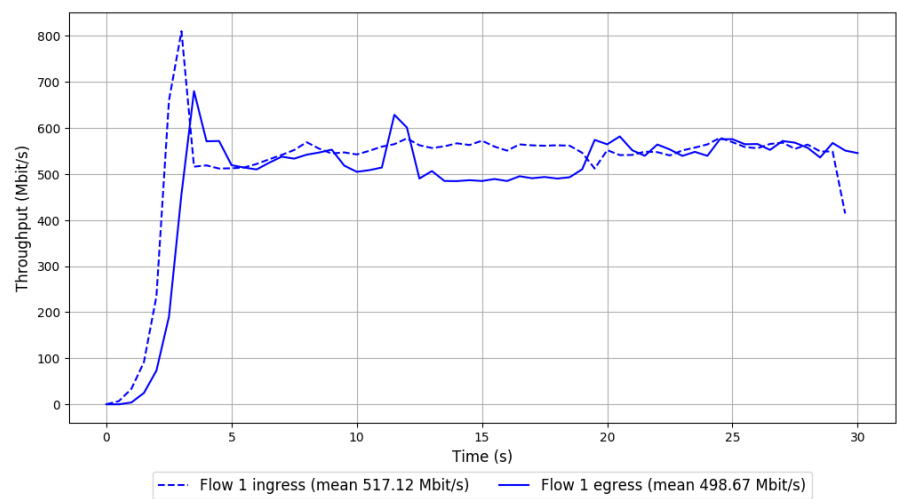


Run 5: Statistics of PCC-Allegro

Start at: 2018-05-21 23:01:35
End at: 2018-05-21 23:02:05
Local clock offset: 3.122 ms
Remote clock offset: -0.386 ms

Below is generated by plot.py at 2018-05-22 01:33:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 498.67 Mbit/s
95th percentile per-packet one-way delay: 255.302 ms
Loss rate: 3.57%
-- Flow 1:
Average throughput: 498.67 Mbit/s
95th percentile per-packet one-way delay: 255.302 ms
Loss rate: 3.57%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-05-21 23:21:54

End at: 2018-05-21 23:22:25

Local clock offset: 1.904 ms

Remote clock offset: 0.367 ms

Below is generated by plot.py at 2018-05-22 01:33:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 488.57 Mbit/s

95th percentile per-packet one-way delay: 158.992 ms

Loss rate: 1.26%

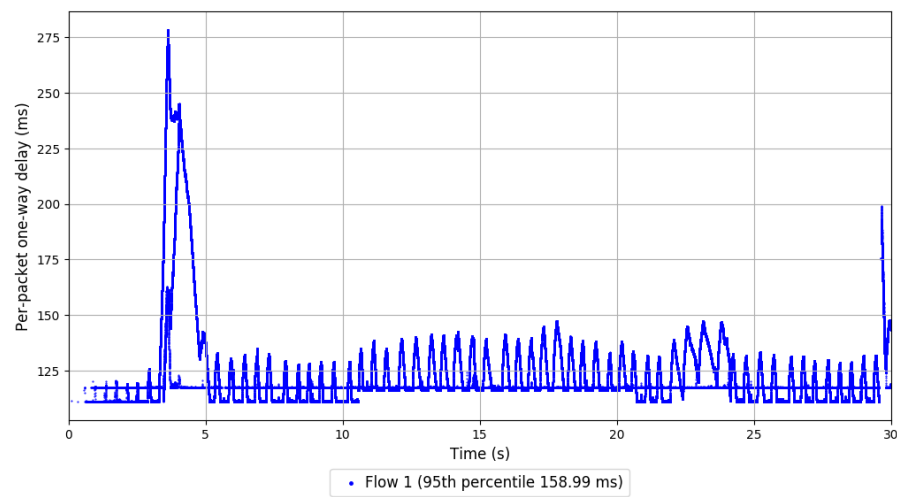
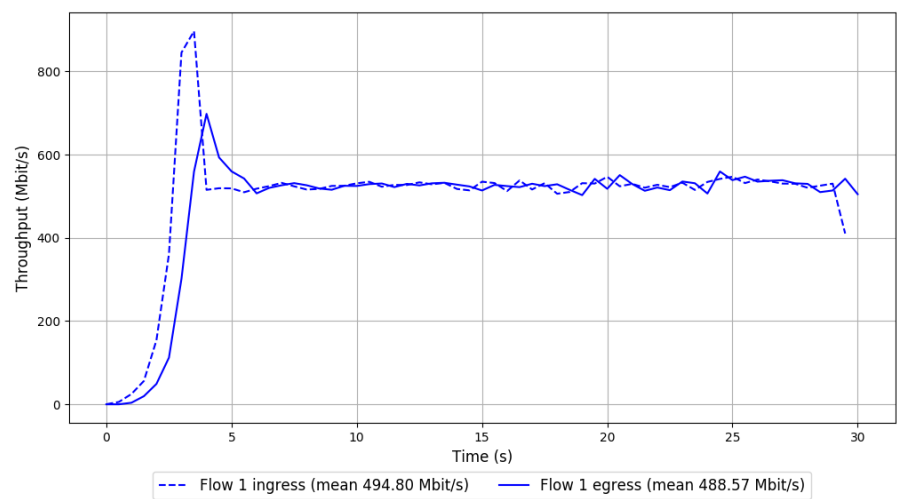
-- Flow 1:

Average throughput: 488.57 Mbit/s

95th percentile per-packet one-way delay: 158.992 ms

Loss rate: 1.26%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-05-21 23:42:18

End at: 2018-05-21 23:42:48

Local clock offset: 1.012 ms

Remote clock offset: -0.449 ms

Below is generated by plot.py at 2018-05-22 01:38:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 497.31 Mbit/s

95th percentile per-packet one-way delay: 241.858 ms

Loss rate: 1.12%

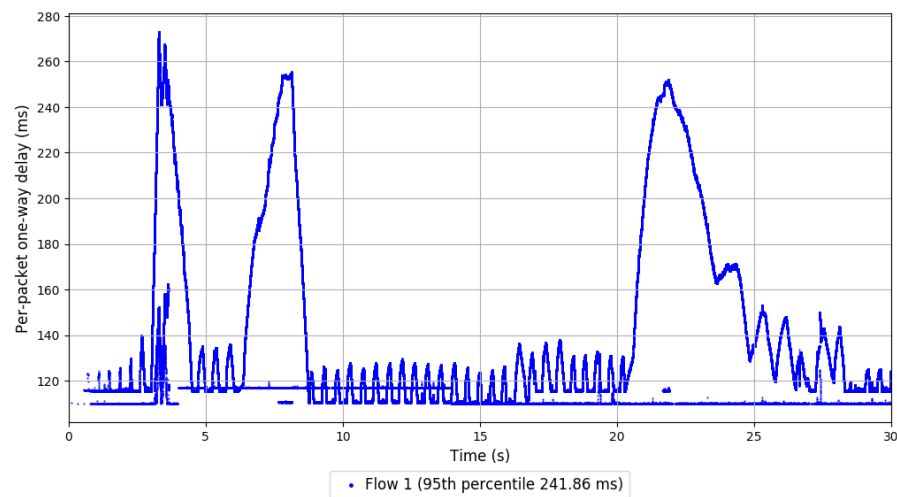
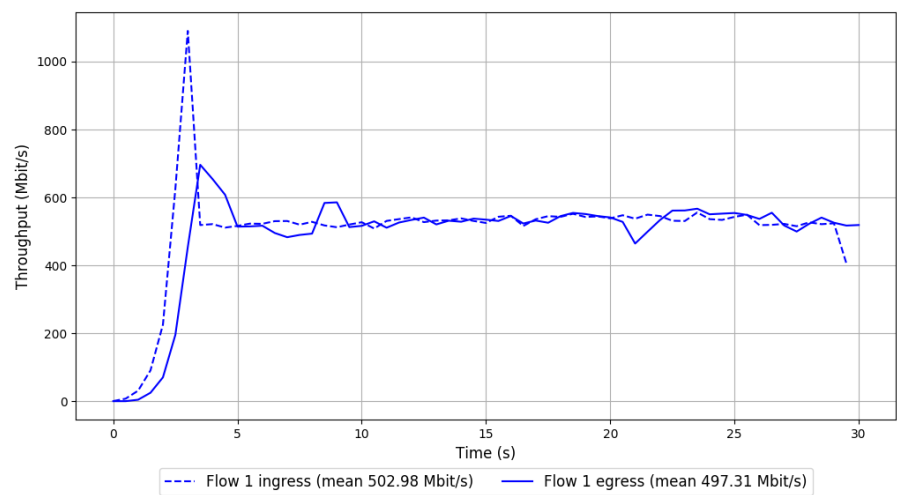
-- Flow 1:

Average throughput: 497.31 Mbit/s

95th percentile per-packet one-way delay: 241.858 ms

Loss rate: 1.12%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-05-22 00:02:32

End at: 2018-05-22 00:03:03

Local clock offset: 0.307 ms

Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-05-22 01:38:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 461.59 Mbit/s

95th percentile per-packet one-way delay: 260.555 ms

Loss rate: 2.27%

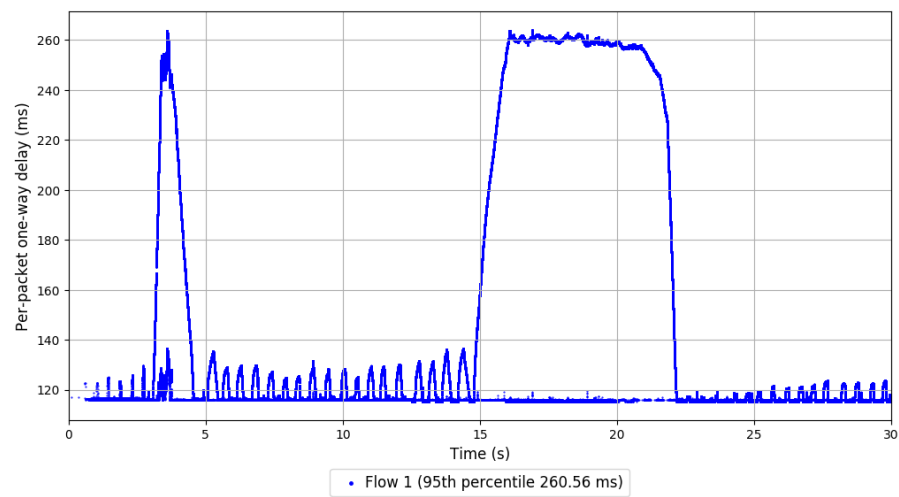
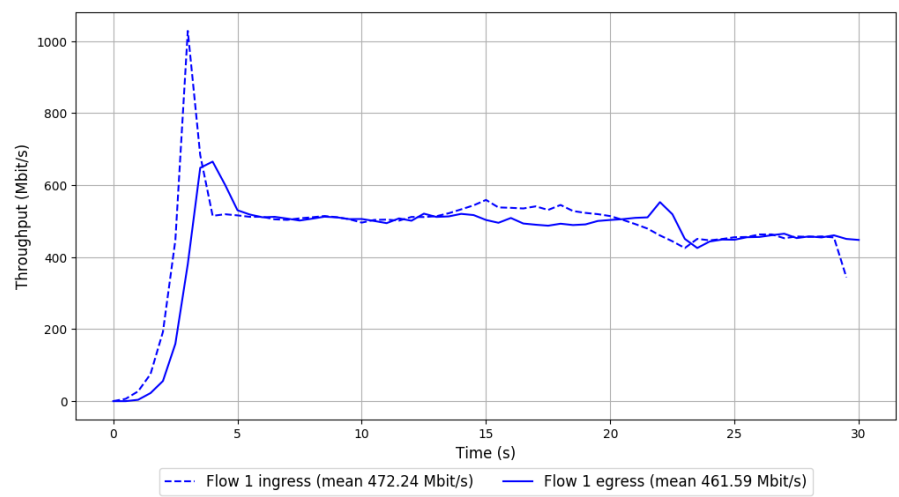
-- Flow 1:

Average throughput: 461.59 Mbit/s

95th percentile per-packet one-way delay: 260.555 ms

Loss rate: 2.27%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-05-22 00:22:48

End at: 2018-05-22 00:23:18

Local clock offset: 0.554 ms

Remote clock offset: -0.099 ms

Below is generated by plot.py at 2018-05-22 01:38:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 263.97 Mbit/s

95th percentile per-packet one-way delay: 128.747 ms

Loss rate: 0.38%

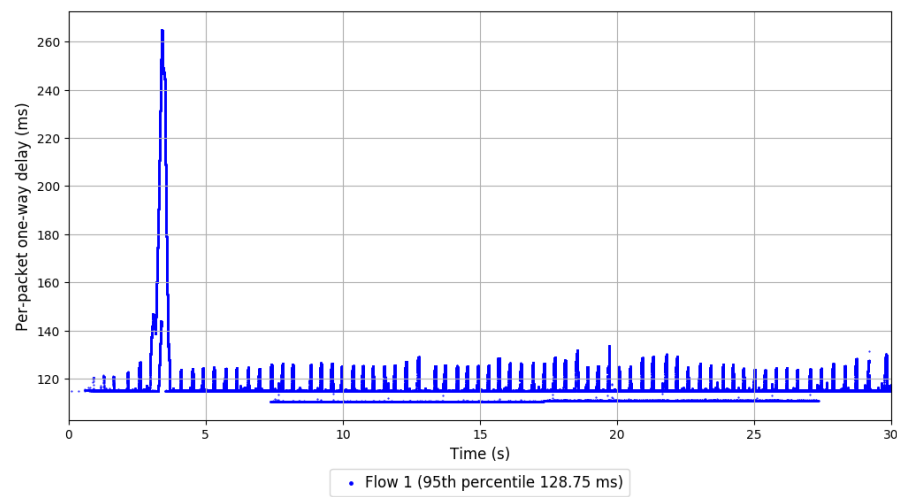
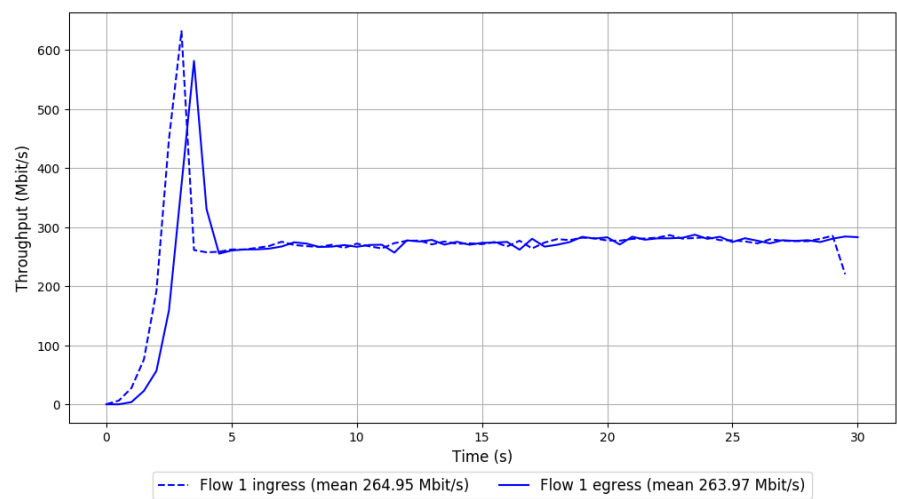
-- Flow 1:

Average throughput: 263.97 Mbit/s

95th percentile per-packet one-way delay: 128.747 ms

Loss rate: 0.38%

Run 9: Report of PCC-Allegro — Data Link

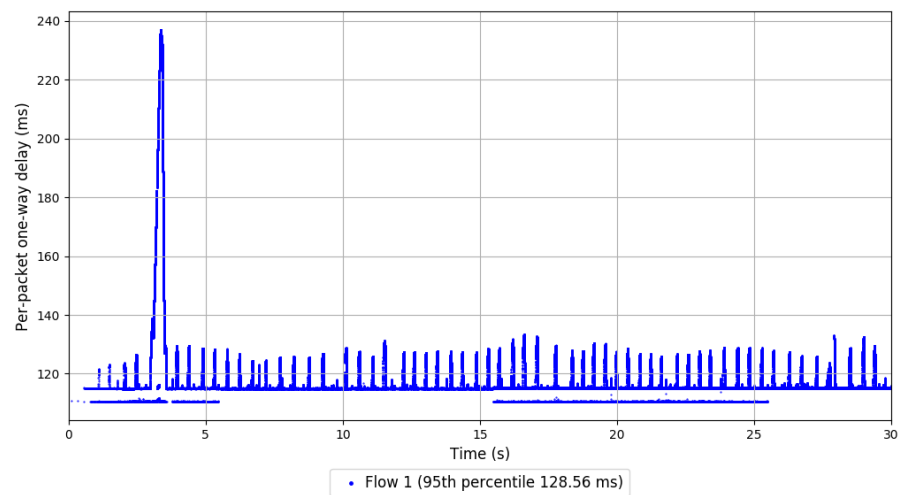
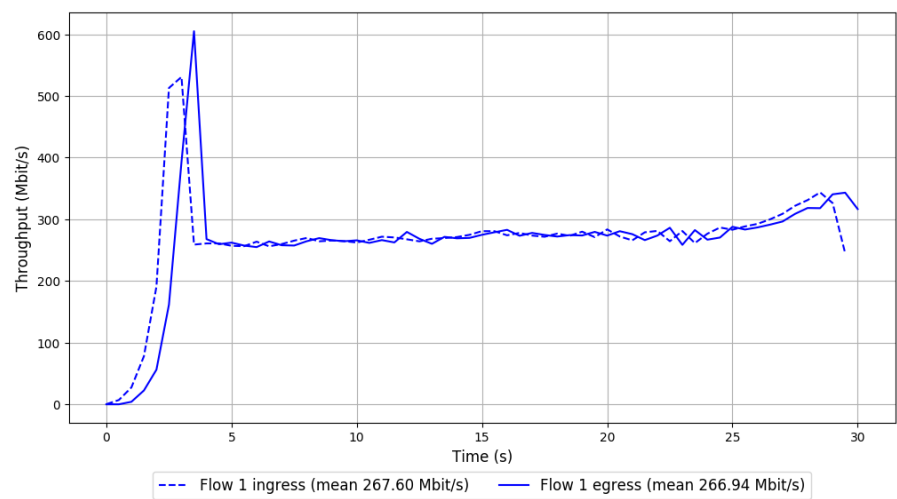


Run 10: Statistics of PCC-Allegro

Start at: 2018-05-22 00:43:00
End at: 2018-05-22 00:43:30
Local clock offset: 0.278 ms
Remote clock offset: -0.107 ms

Below is generated by plot.py at 2018-05-22 01:38:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 266.94 Mbit/s
95th percentile per-packet one-way delay: 128.556 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 266.94 Mbit/s
95th percentile per-packet one-way delay: 128.556 ms
Loss rate: 0.24%

Run 10: Report of PCC-Allegro — Data Link

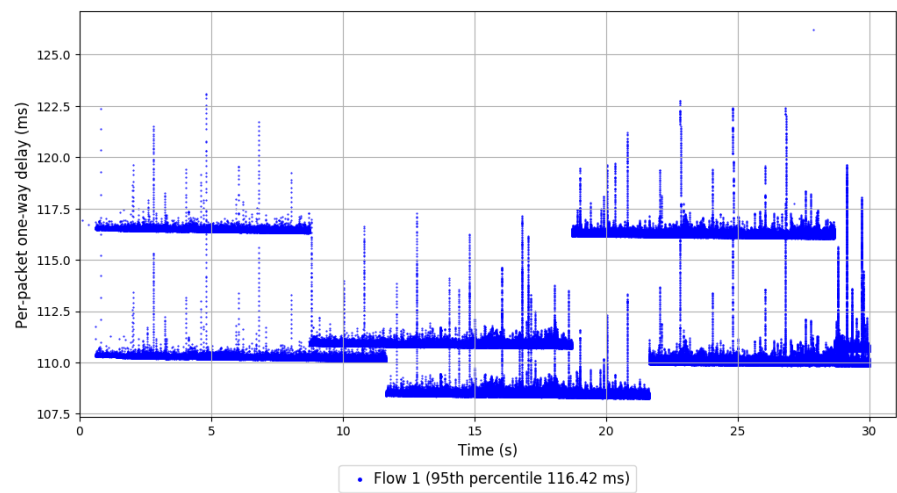
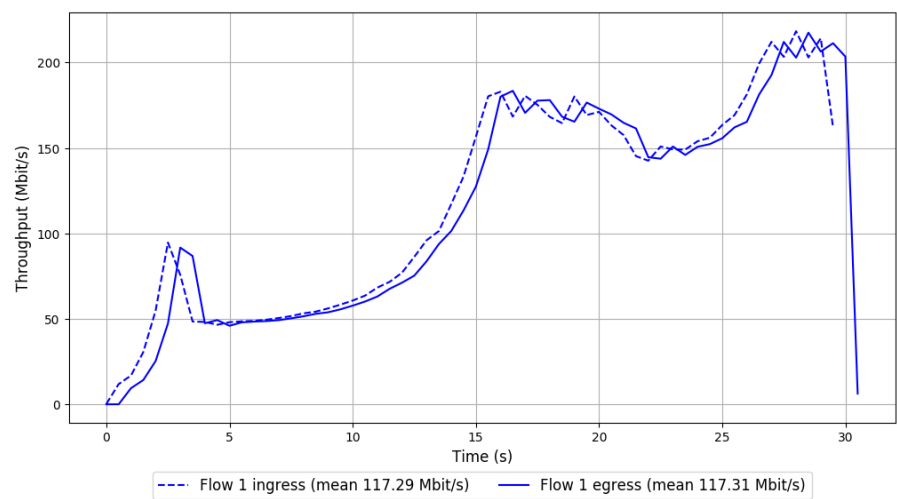


```
Run 1: Statistics of PCC-Expr

Start at: 2018-05-21 21:35:33
End at: 2018-05-21 21:36:03
Local clock offset: 15.357 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2018-05-22 01:38:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 117.31 Mbit/s
95th percentile per-packet one-way delay: 116.421 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 117.31 Mbit/s
95th percentile per-packet one-way delay: 116.421 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Expr — Data Link

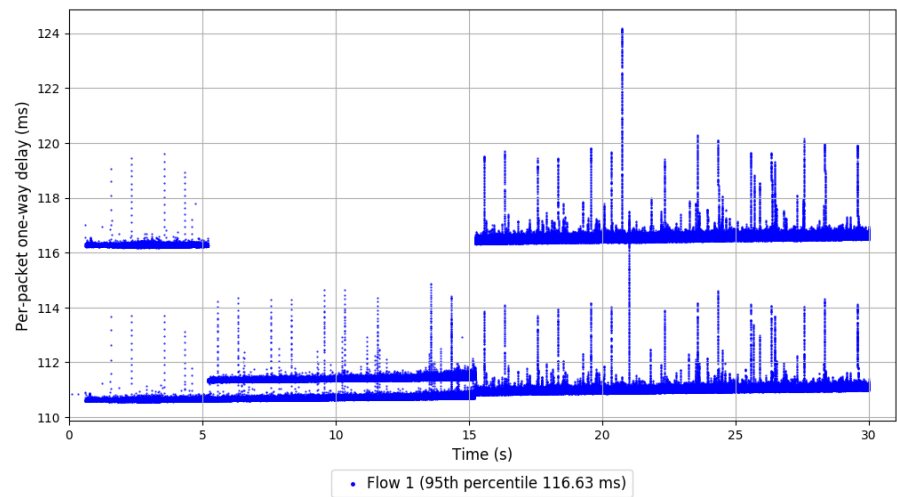
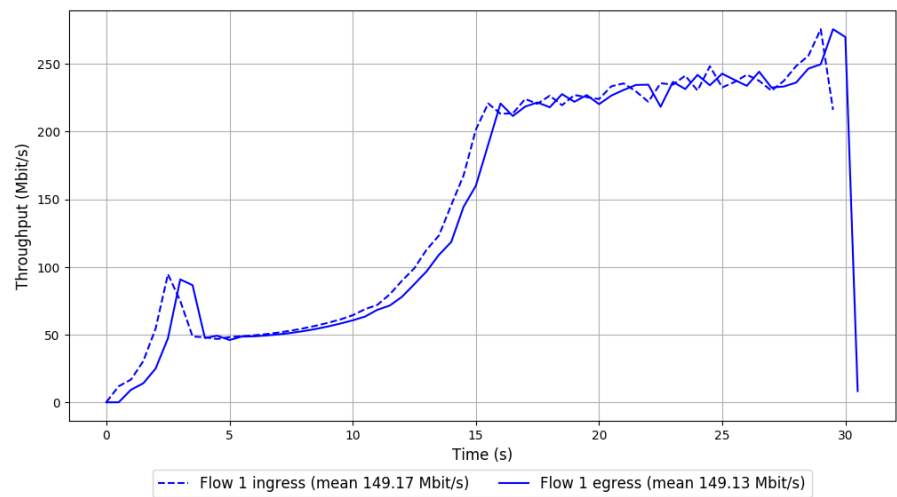


```
Run 2: Statistics of PCC-Expr

Start at: 2018-05-21 21:56:00
End at: 2018-05-21 21:56:30
Local clock offset: 17.922 ms
Remote clock offset: 0.127 ms

# Below is generated by plot.py at 2018-05-22 01:38:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 149.13 Mbit/s
95th percentile per-packet one-way delay: 116.631 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 149.13 Mbit/s
95th percentile per-packet one-way delay: 116.631 ms
Loss rate: 0.02%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-05-21 22:16:45

End at: 2018-05-21 22:17:15

Local clock offset: 12.615 ms

Remote clock offset: 0.019 ms

Below is generated by plot.py at 2018-05-22 01:41:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 239.12 Mbit/s

95th percentile per-packet one-way delay: 156.326 ms

Loss rate: 0.02%

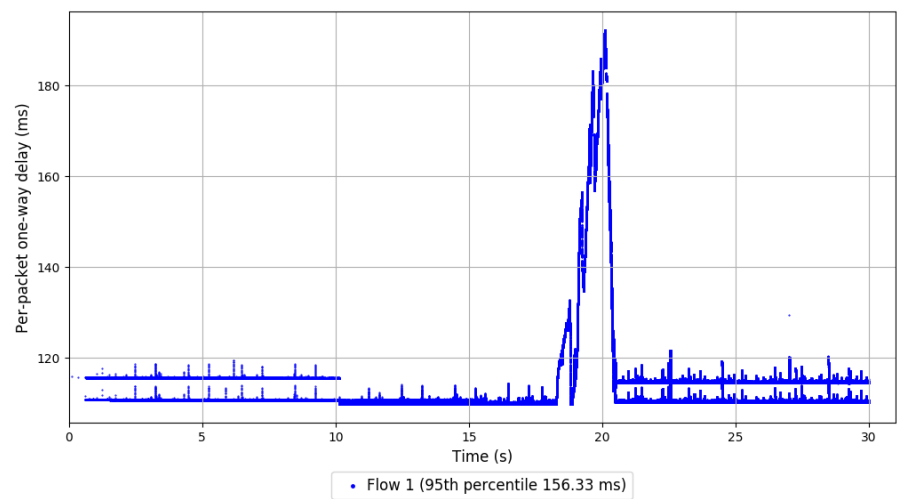
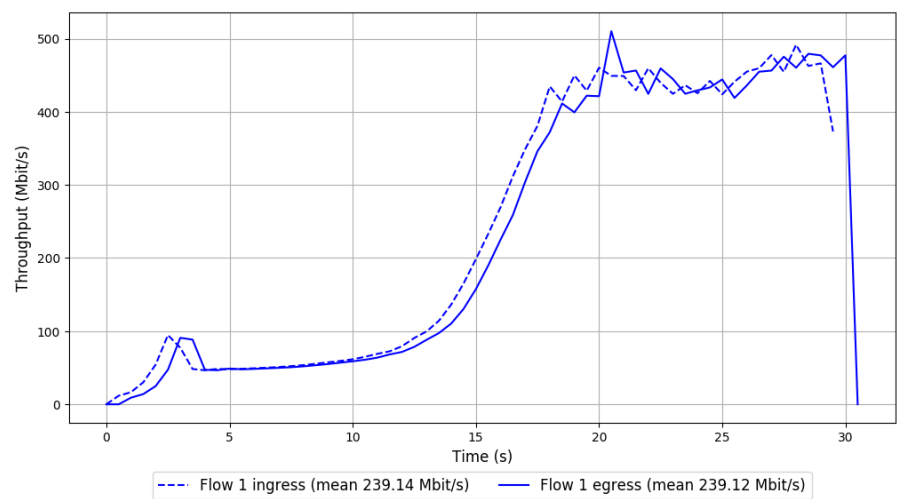
-- Flow 1:

Average throughput: 239.12 Mbit/s

95th percentile per-packet one-way delay: 156.326 ms

Loss rate: 0.02%

Run 3: Report of PCC-Expr — Data Link

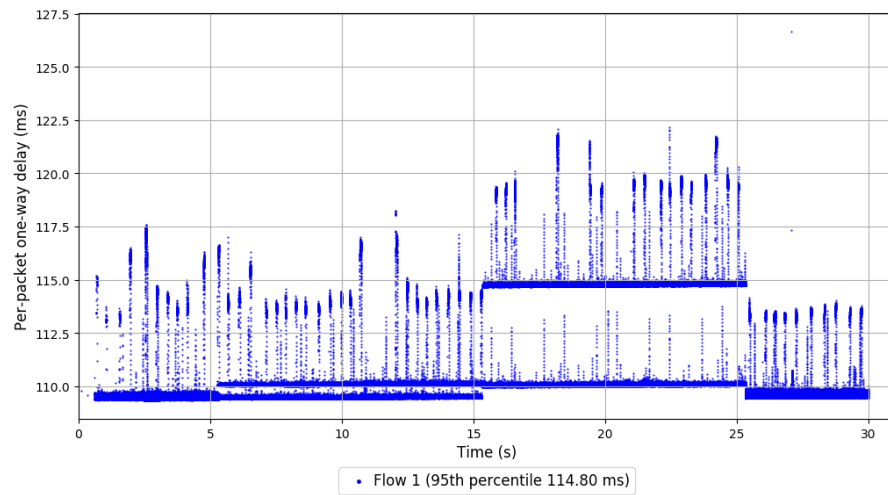
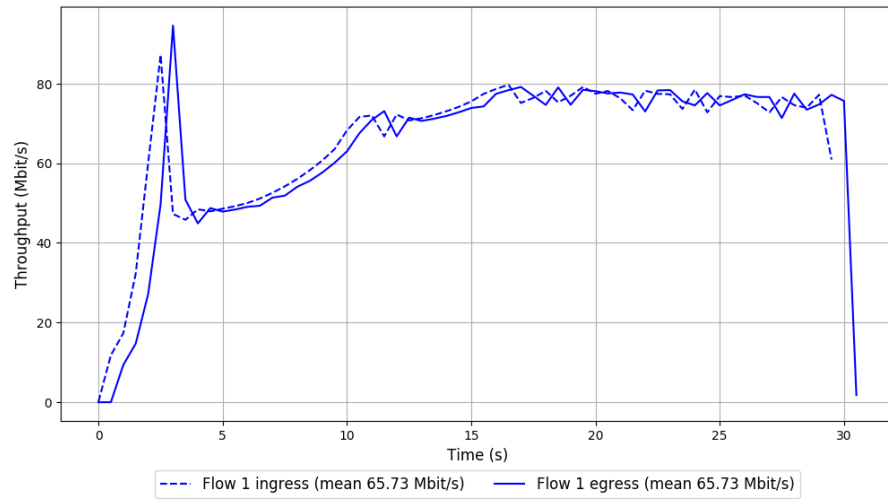


Run 4: Statistics of PCC-Expr

Start at: 2018-05-21 22:37:30
End at: 2018-05-21 22:38:00
Local clock offset: 11.941 ms
Remote clock offset: -0.351 ms

Below is generated by plot.py at 2018-05-22 01:41:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 65.73 Mbit/s
95th percentile per-packet one-way delay: 114.802 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 65.73 Mbit/s
95th percentile per-packet one-way delay: 114.802 ms
Loss rate: 0.00%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-05-21 22:57:47

End at: 2018-05-21 22:58:17

Local clock offset: 3.468 ms

Remote clock offset: 0.398 ms

Below is generated by plot.py at 2018-05-22 01:41:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.52 Mbit/s

95th percentile per-packet one-way delay: 118.606 ms

Loss rate: 0.00%

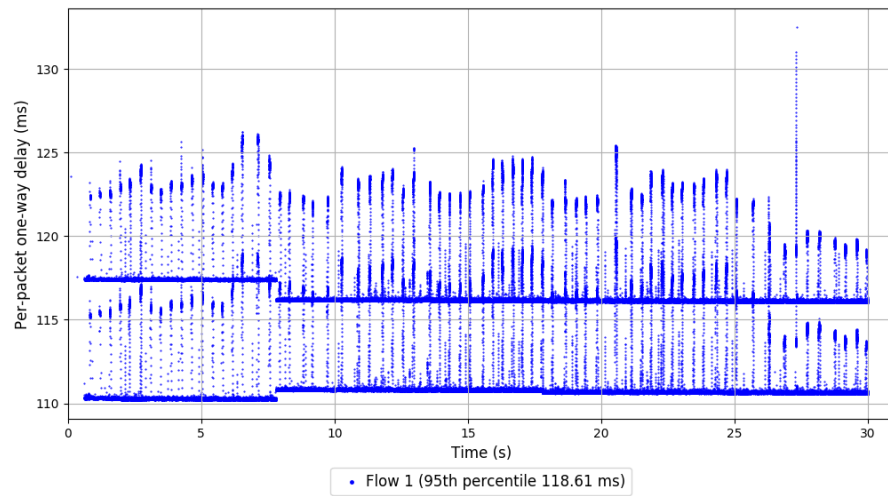
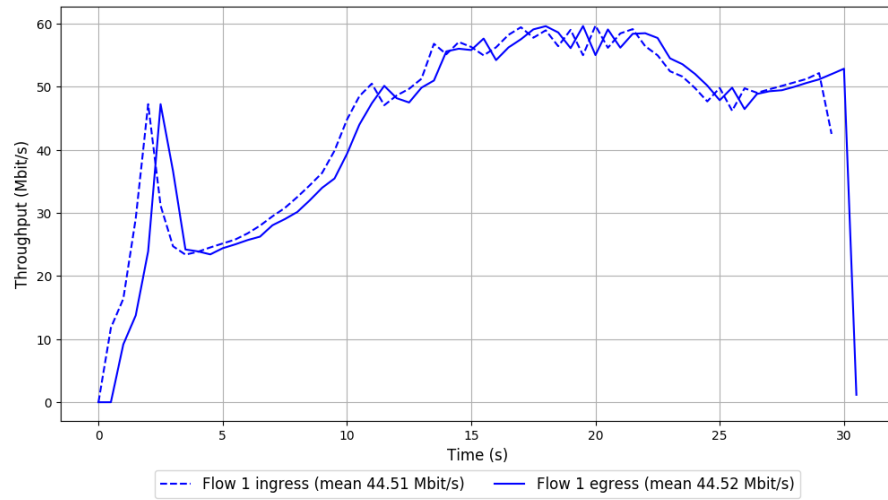
-- Flow 1:

Average throughput: 44.52 Mbit/s

95th percentile per-packet one-way delay: 118.606 ms

Loss rate: 0.00%

Run 5: Report of PCC-Expr — Data Link

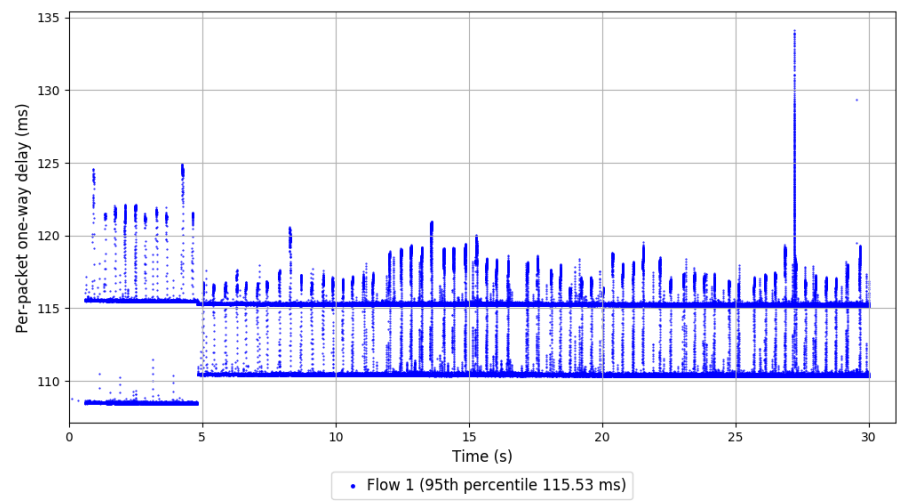
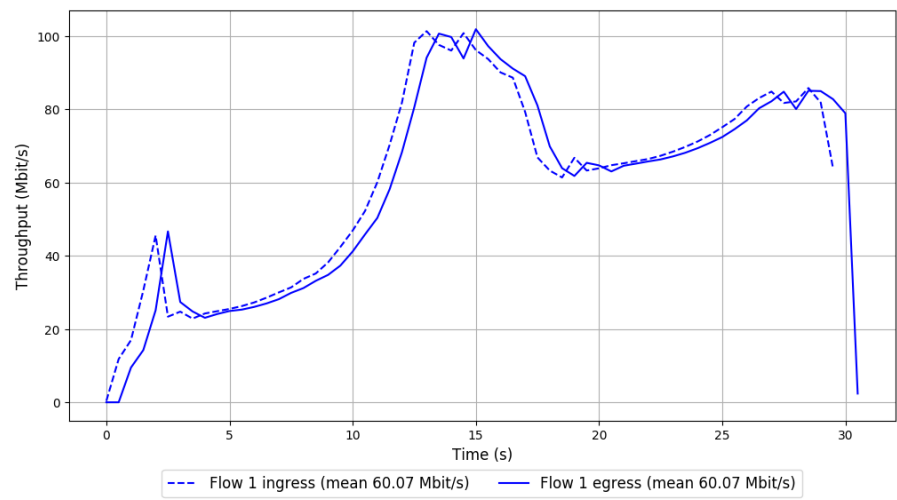


Run 6: Statistics of PCC-Expr

Start at: 2018-05-21 23:18:10
End at: 2018-05-21 23:18:40
Local clock offset: 2.517 ms
Remote clock offset: -0.421 ms

Below is generated by plot.py at 2018-05-22 01:41:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 60.07 Mbit/s
95th percentile per-packet one-way delay: 115.525 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.07 Mbit/s
95th percentile per-packet one-way delay: 115.525 ms
Loss rate: 0.00%

Run 6: Report of PCC-Expr — Data Link

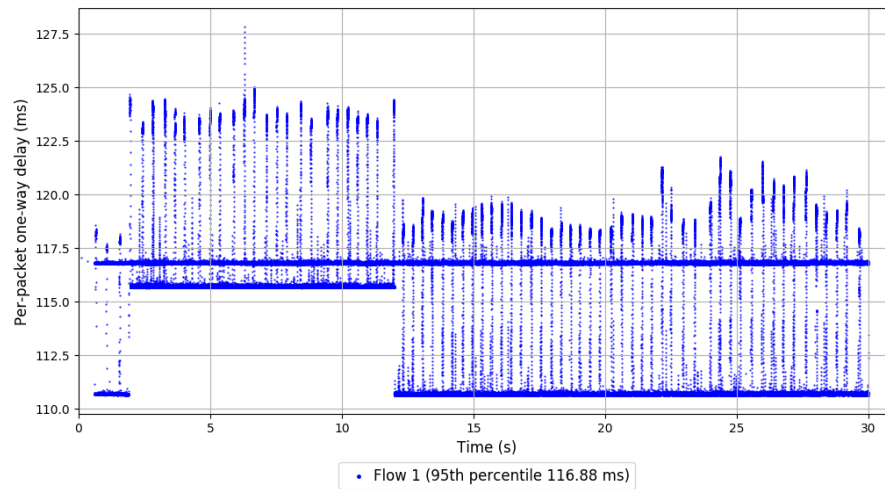
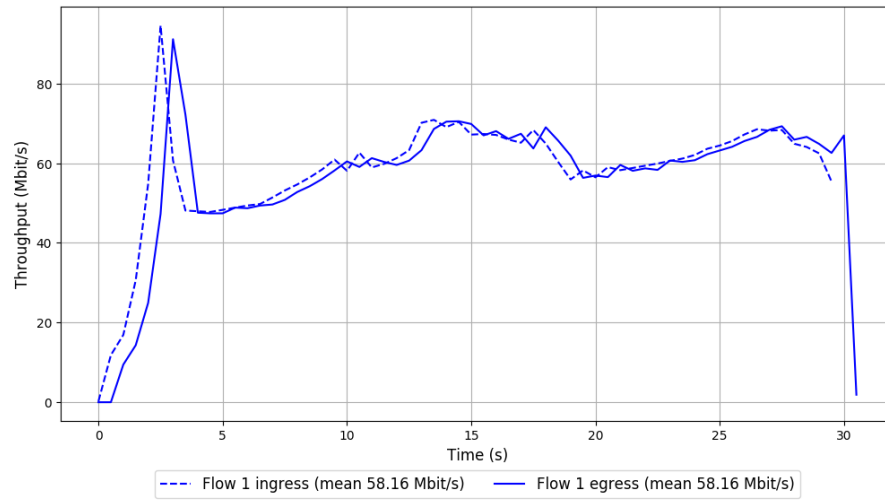


Run 7: Statistics of PCC-Expr

Start at: 2018-05-21 23:38:33
End at: 2018-05-21 23:39:03
Local clock offset: 0.802 ms
Remote clock offset: -0.481 ms

Below is generated by plot.py at 2018-05-22 01:41:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 58.16 Mbit/s
95th percentile per-packet one-way delay: 116.877 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 58.16 Mbit/s
95th percentile per-packet one-way delay: 116.877 ms
Loss rate: 0.02%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-05-21 23:58:50

End at: 2018-05-21 23:59:20

Local clock offset: 0.575 ms

Remote clock offset: 0.294 ms

Below is generated by plot.py at 2018-05-22 01:41:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.34 Mbit/s

95th percentile per-packet one-way delay: 117.619 ms

Loss rate: 0.01%

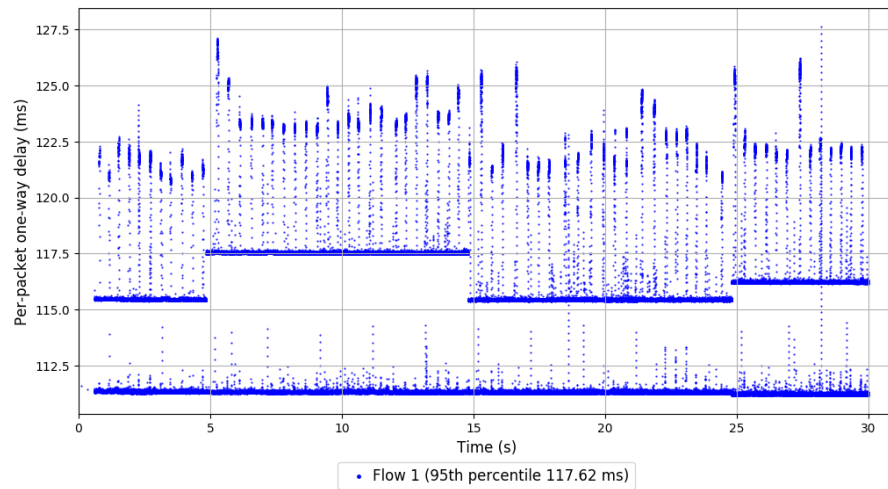
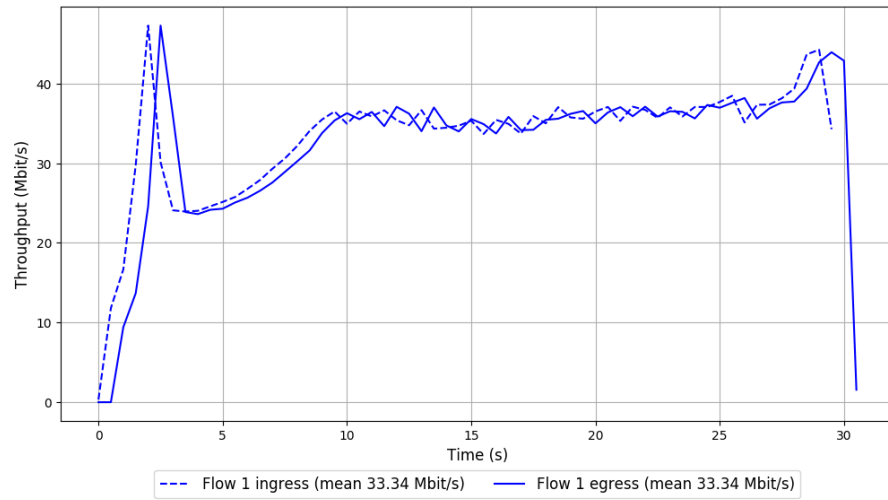
-- Flow 1:

Average throughput: 33.34 Mbit/s

95th percentile per-packet one-way delay: 117.619 ms

Loss rate: 0.01%

Run 8: Report of PCC-Expr — Data Link

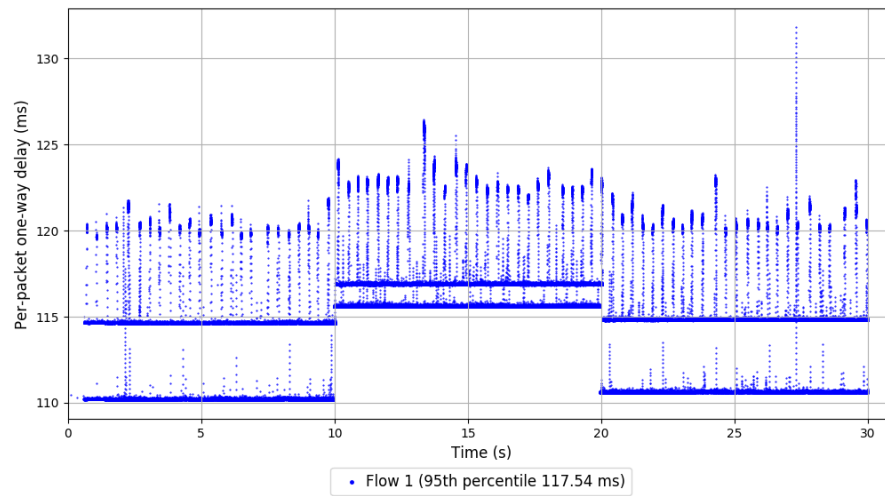
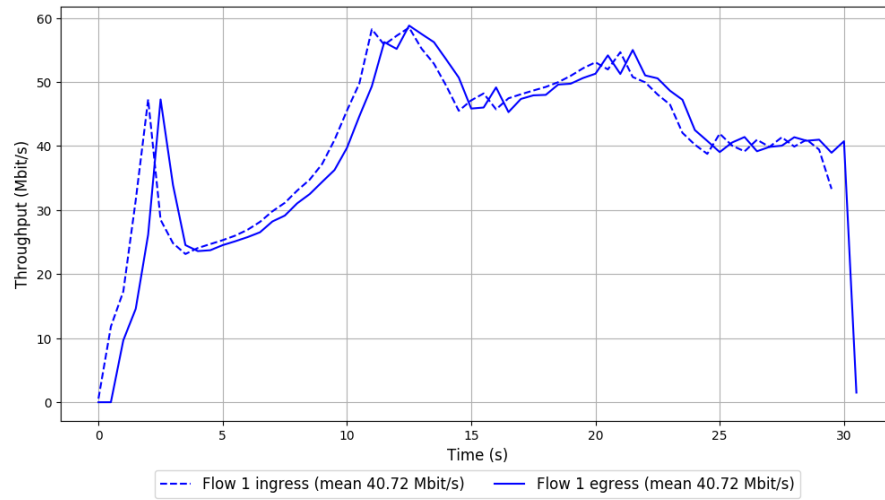


Run 9: Statistics of PCC-Expr

Start at: 2018-05-22 00:19:05
End at: 2018-05-22 00:19:35
Local clock offset: 0.442 ms
Remote clock offset: -0.415 ms

Below is generated by plot.py at 2018-05-22 01:41:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 40.72 Mbit/s
95th percentile per-packet one-way delay: 117.537 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 40.72 Mbit/s
95th percentile per-packet one-way delay: 117.537 ms
Loss rate: 0.01%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-05-22 00:39:15

End at: 2018-05-22 00:39:45

Local clock offset: 0.089 ms

Remote clock offset: -0.17 ms

Below is generated by plot.py at 2018-05-22 01:41:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.34 Mbit/s

95th percentile per-packet one-way delay: 117.350 ms

Loss rate: 0.02%

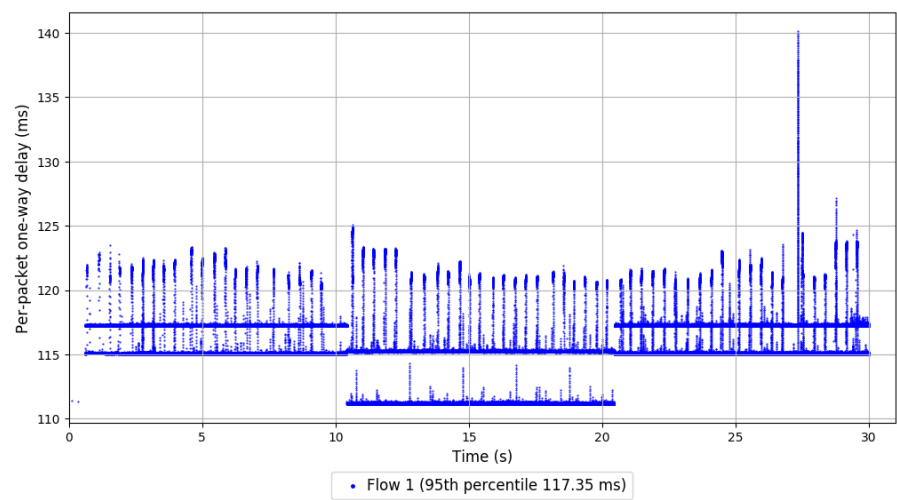
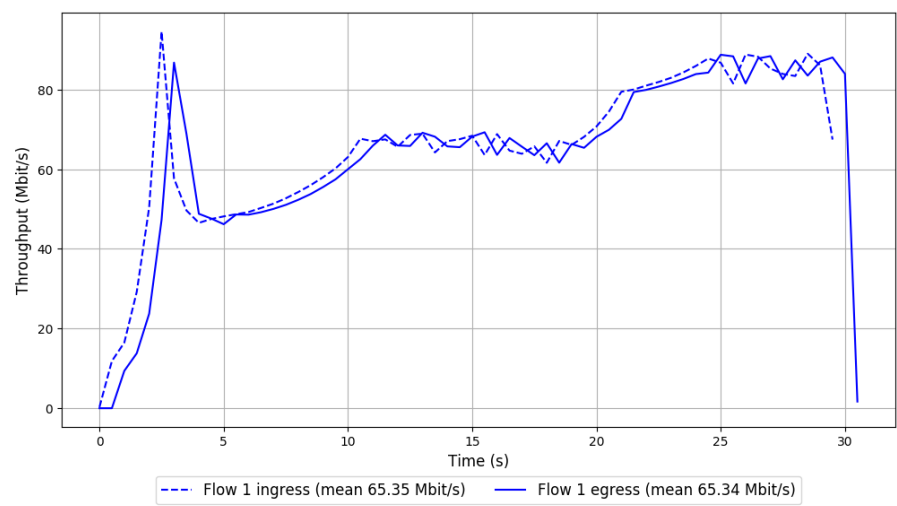
-- Flow 1:

Average throughput: 65.34 Mbit/s

95th percentile per-packet one-way delay: 117.350 ms

Loss rate: 0.02%

Run 10: Report of PCC-Expr — Data Link

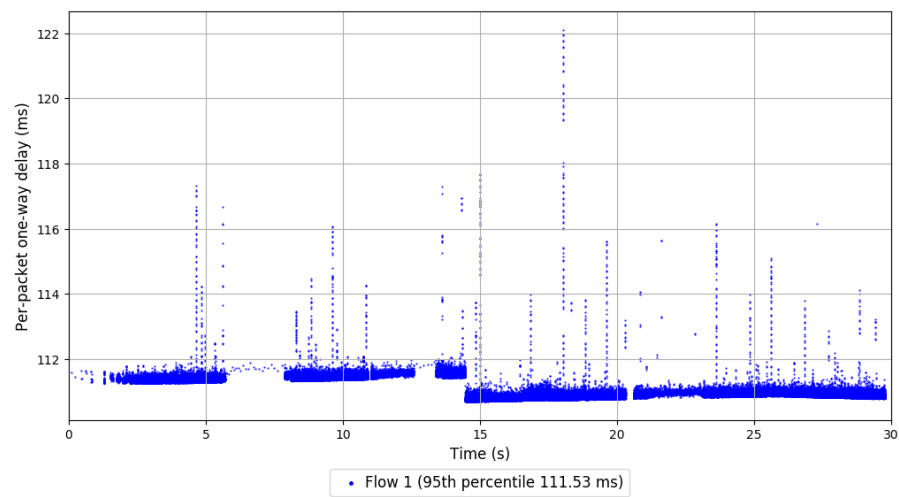
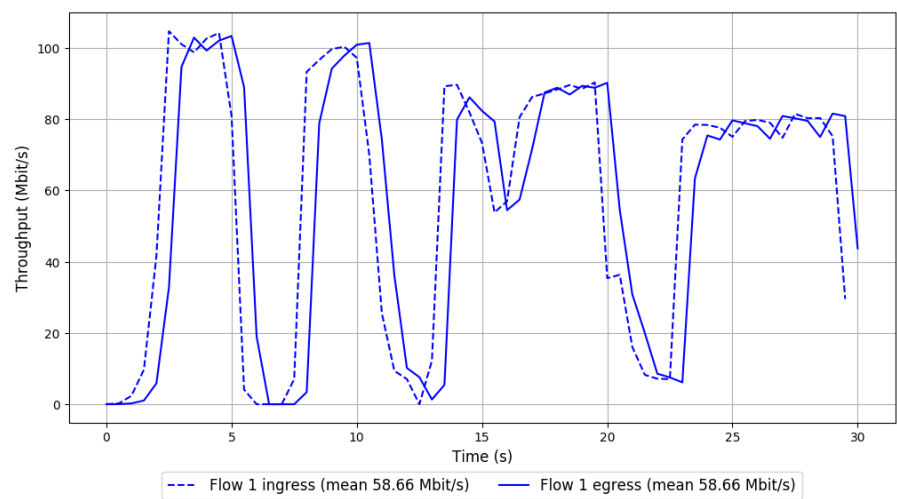


Run 1: Statistics of QUIC Cubic

Start at: 2018-05-21 21:33:10
End at: 2018-05-21 21:33:40
Local clock offset: 16.666 ms
Remote clock offset: -0.225 ms

Below is generated by plot.py at 2018-05-22 01:41:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 58.66 Mbit/s
95th percentile per-packet one-way delay: 111.534 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.66 Mbit/s
95th percentile per-packet one-way delay: 111.534 ms
Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-05-21 21:53:35

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

Local clock offset: 16.374 ms

Remote clock offset: 0.121 ms

Below is generated by plot.py at 2018-05-22 01:41:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.02 Mbit/s

95th percentile per-packet one-way delay: 111.516 ms

Loss rate: 0.00%

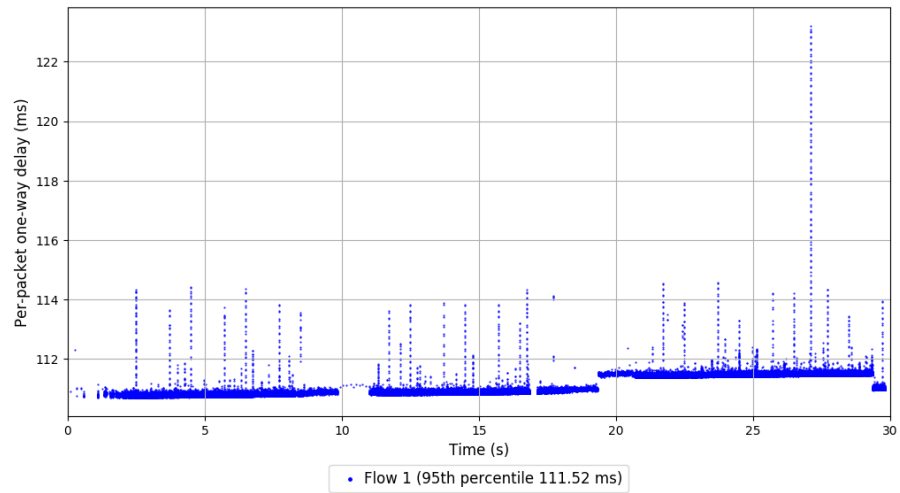
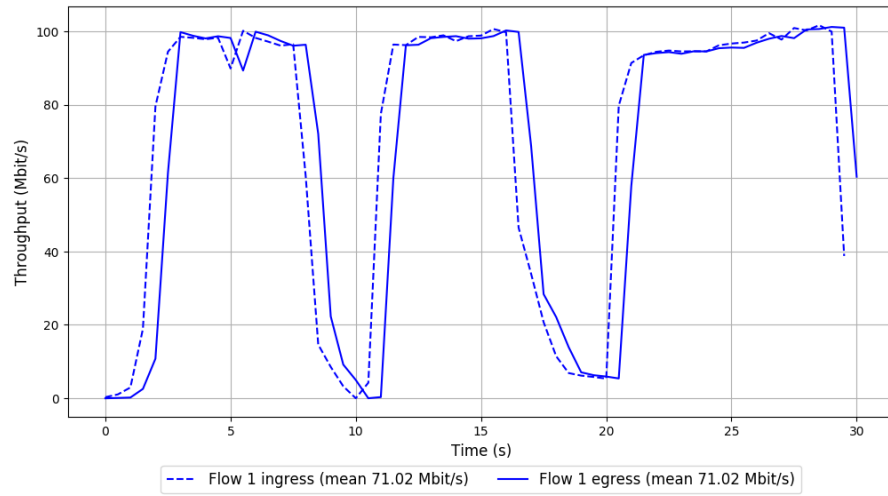
-- Flow 1:

Average throughput: 71.02 Mbit/s

95th percentile per-packet one-way delay: 111.516 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-05-21 22:14:20

End at: 2018-05-21 22:14:50

Local clock offset: 14.977 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-05-22 01:41:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.76 Mbit/s

95th percentile per-packet one-way delay: 109.861 ms

Loss rate: 0.00%

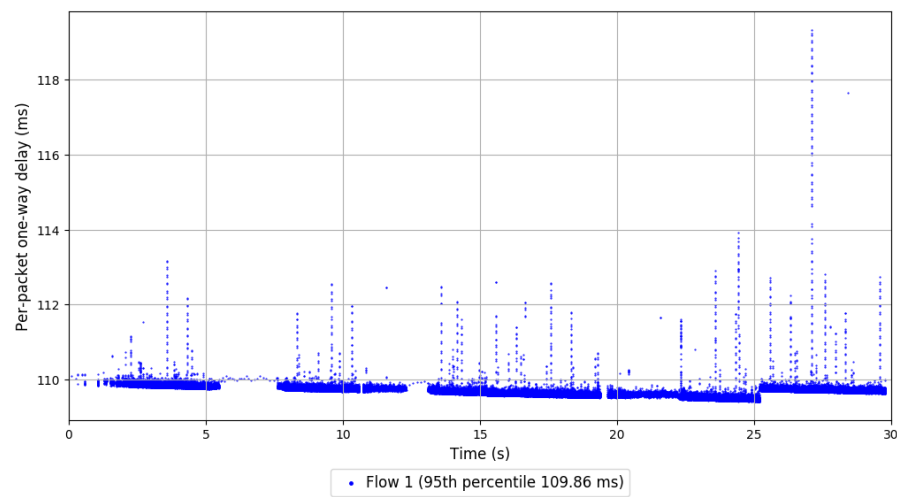
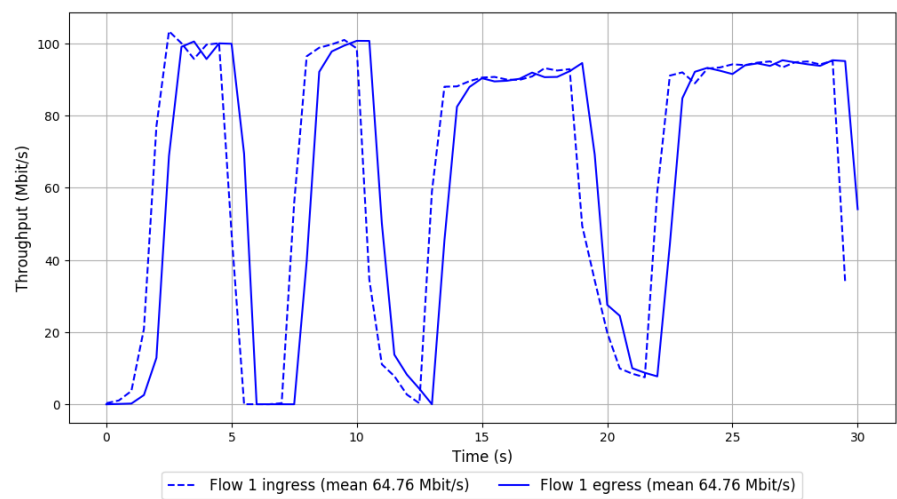
-- Flow 1:

Average throughput: 64.76 Mbit/s

95th percentile per-packet one-way delay: 109.861 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-05-21 22:35:04

End at: 2018-05-21 22:35:34

Local clock offset: 11.071 ms

Remote clock offset: -0.295 ms

Below is generated by plot.py at 2018-05-22 01:41:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.25 Mbit/s

95th percentile per-packet one-way delay: 110.391 ms

Loss rate: 0.00%

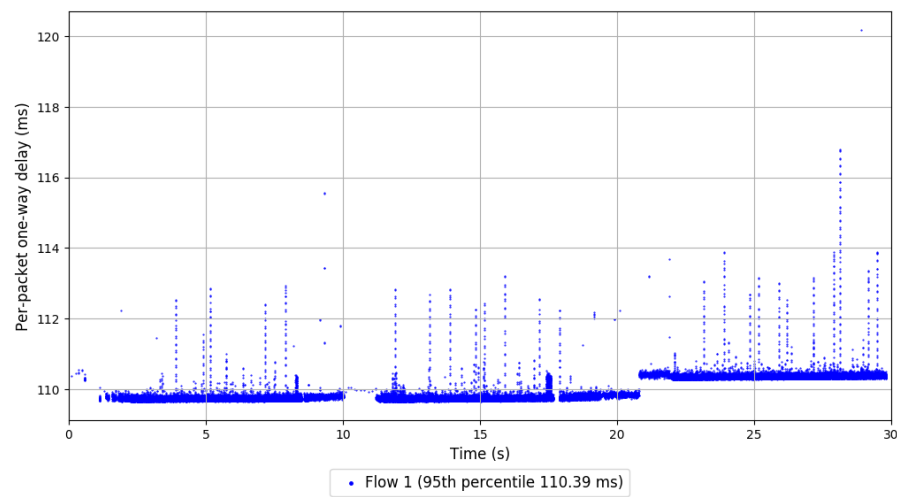
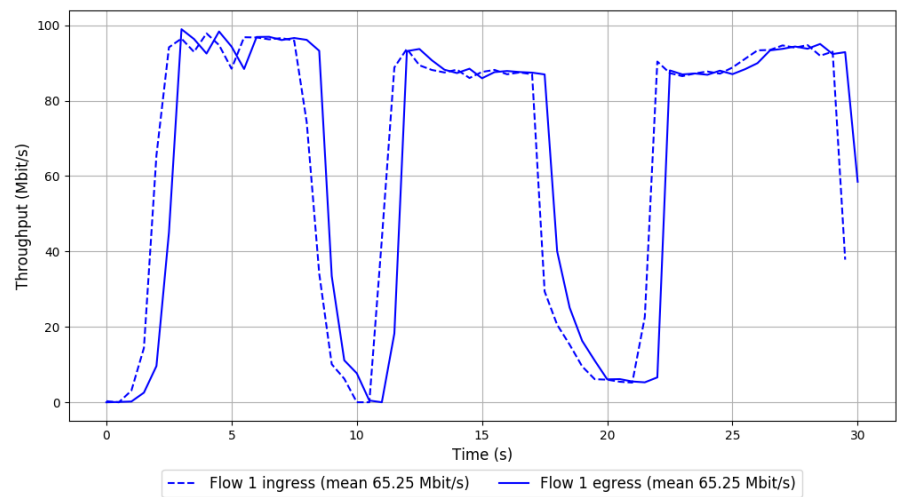
-- Flow 1:

Average throughput: 65.25 Mbit/s

95th percentile per-packet one-way delay: 110.391 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-05-21 22:55:24

End at: 2018-05-21 22:55:54

Local clock offset: 3.907 ms

Remote clock offset: -0.037 ms

Below is generated by plot.py at 2018-05-22 01:41:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.14 Mbit/s

95th percentile per-packet one-way delay: 110.635 ms

Loss rate: 0.00%

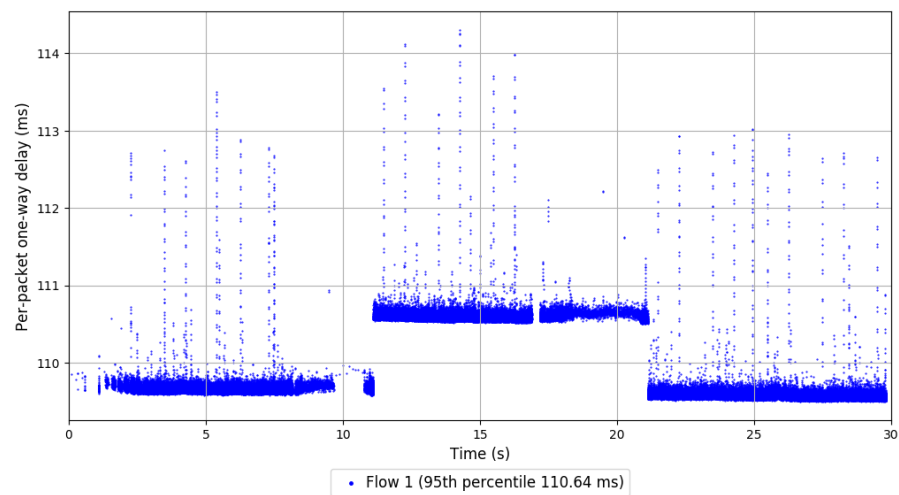
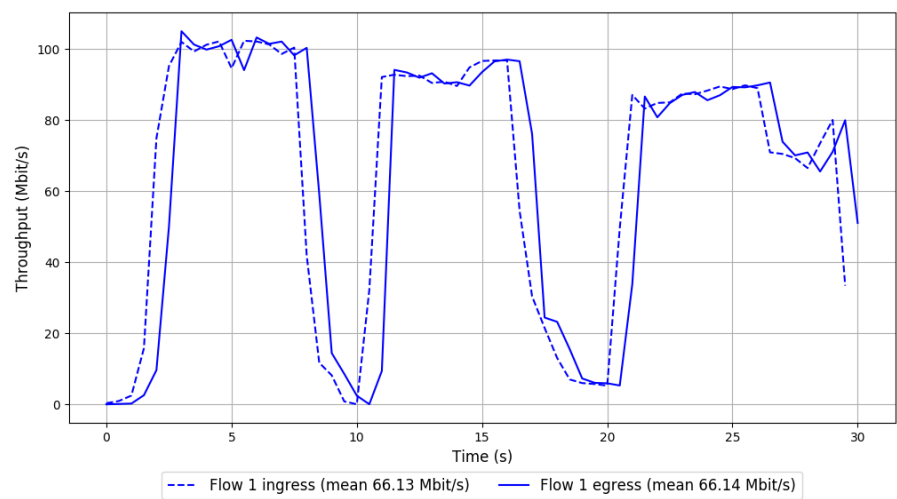
-- Flow 1:

Average throughput: 66.14 Mbit/s

95th percentile per-packet one-way delay: 110.635 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-05-21 23:15:44

End at: 2018-05-21 23:16:14

Local clock offset: 3.161 ms

Remote clock offset: 0.356 ms

Below is generated by plot.py at 2018-05-22 01:41:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.53 Mbit/s

95th percentile per-packet one-way delay: 116.908 ms

Loss rate: 0.03%

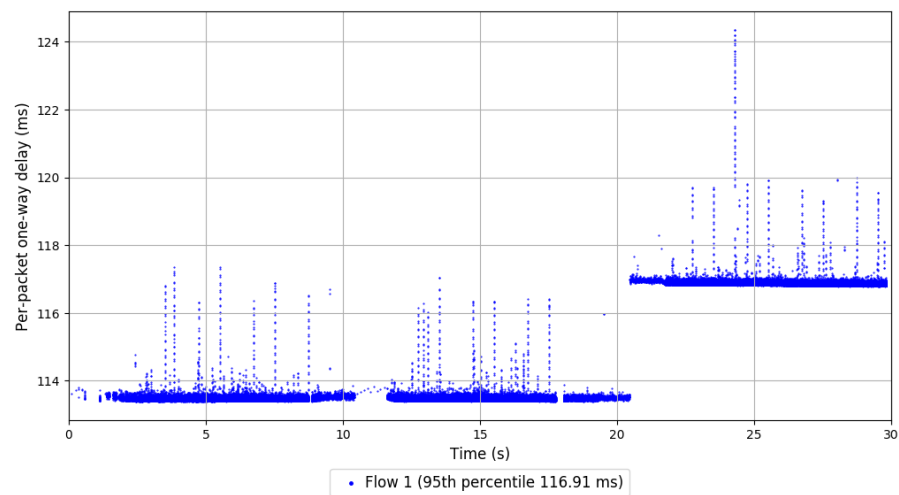
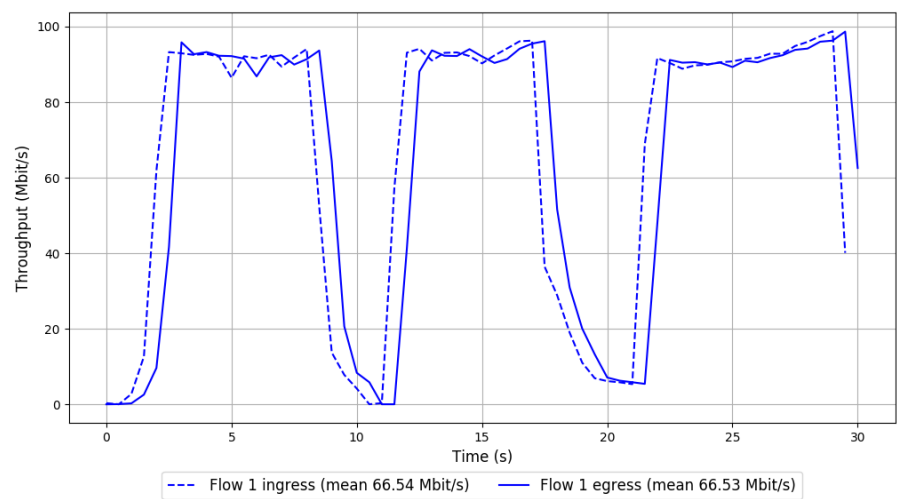
-- Flow 1:

Average throughput: 66.53 Mbit/s

95th percentile per-packet one-way delay: 116.908 ms

Loss rate: 0.03%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-05-21 23:36:07

End at: 2018-05-21 23:36:37

Local clock offset: 1.052 ms

Remote clock offset: 0.337 ms

Below is generated by plot.py at 2018-05-22 01:41:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.62 Mbit/s

95th percentile per-packet one-way delay: 111.380 ms

Loss rate: 0.00%

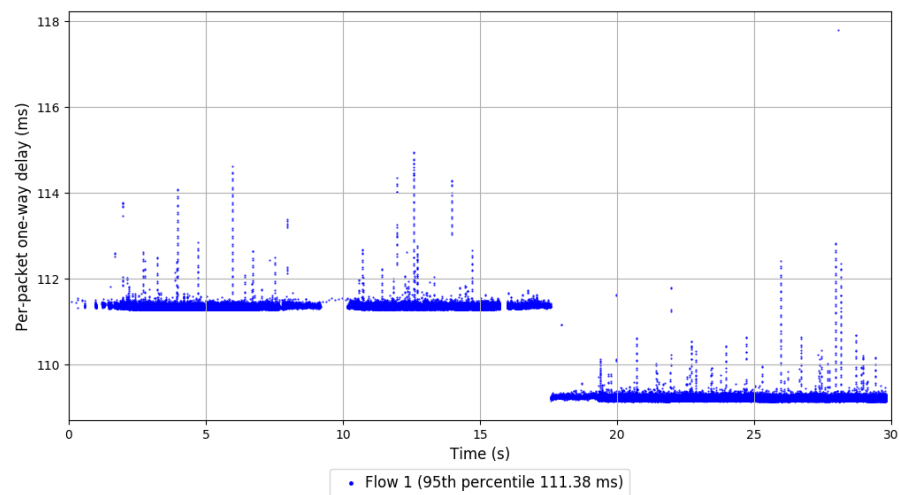
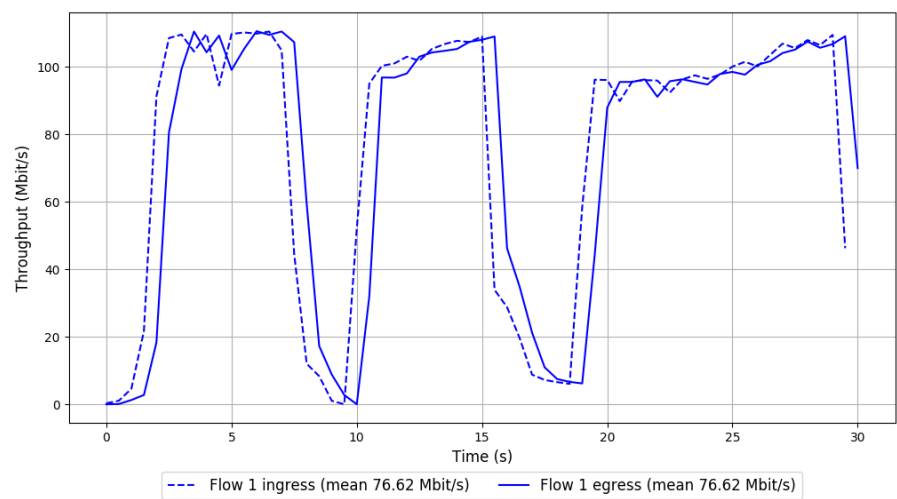
-- Flow 1:

Average throughput: 76.62 Mbit/s

95th percentile per-packet one-way delay: 111.380 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-05-21 23:56:27

End at: 2018-05-21 23:56:57

Local clock offset: 0.559 ms

Remote clock offset: -0.075 ms

Below is generated by plot.py at 2018-05-22 01:41:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.14 Mbit/s

95th percentile per-packet one-way delay: 115.832 ms

Loss rate: 0.00%

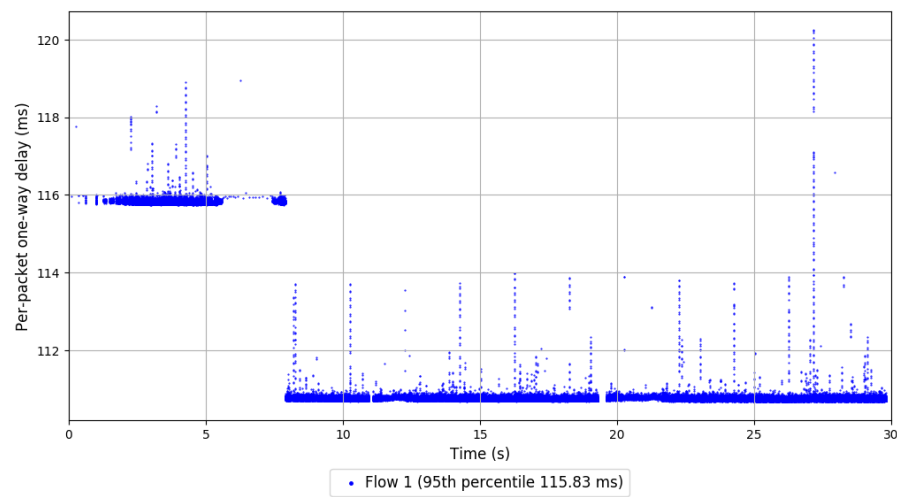
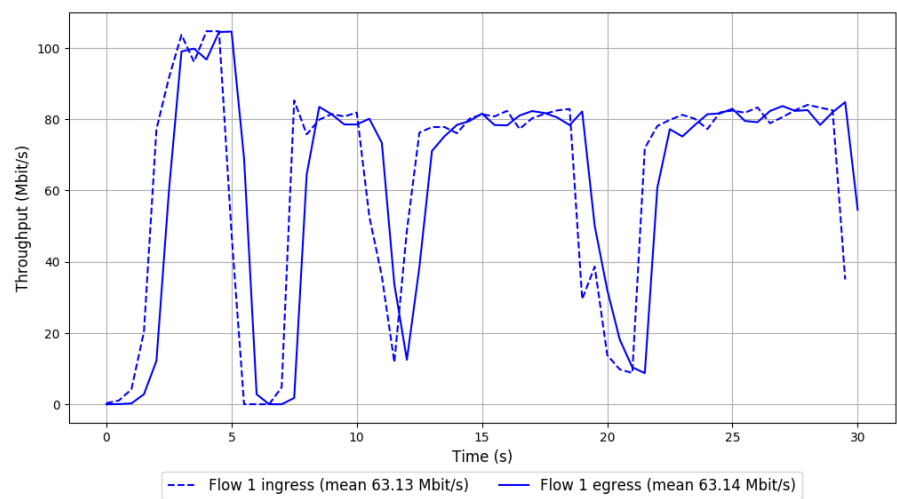
-- Flow 1:

Average throughput: 63.14 Mbit/s

95th percentile per-packet one-way delay: 115.832 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link

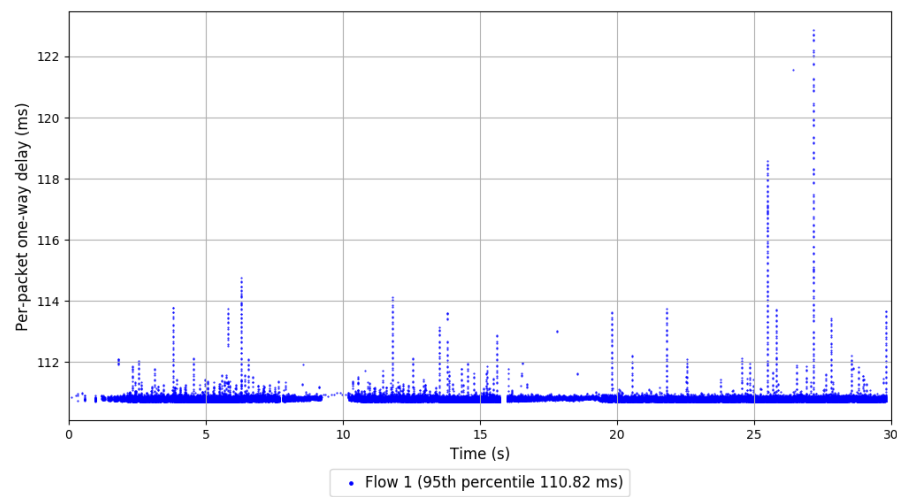
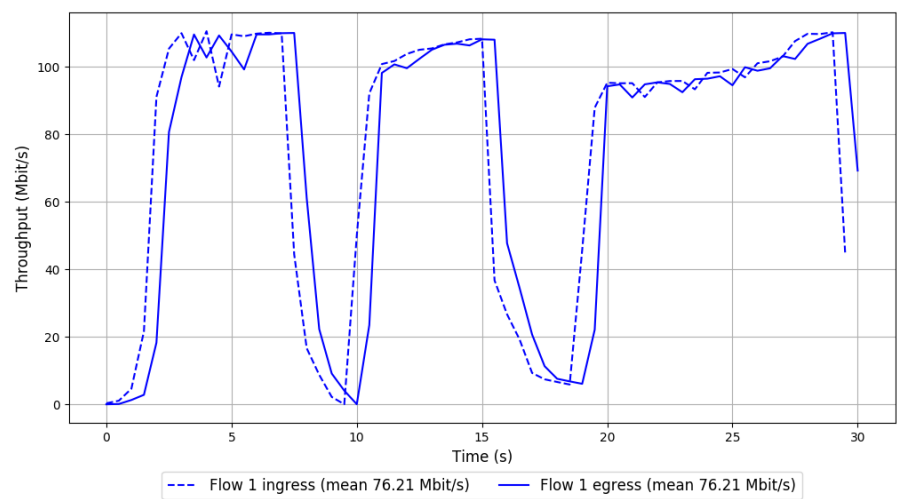


Run 9: Statistics of QUIC Cubic

Start at: 2018-05-22 00:16:41
End at: 2018-05-22 00:17:11
Local clock offset: 0.639 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2018-05-22 01:41:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.21 Mbit/s
95th percentile per-packet one-way delay: 110.819 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 76.21 Mbit/s
95th percentile per-packet one-way delay: 110.819 ms
Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-05-22 00:36:49

End at: 2018-05-22 00:37:19

Local clock offset: 0.275 ms

Remote clock offset: -0.165 ms

Below is generated by plot.py at 2018-05-22 01:41:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.98 Mbit/s

95th percentile per-packet one-way delay: 117.150 ms

Loss rate: 0.00%

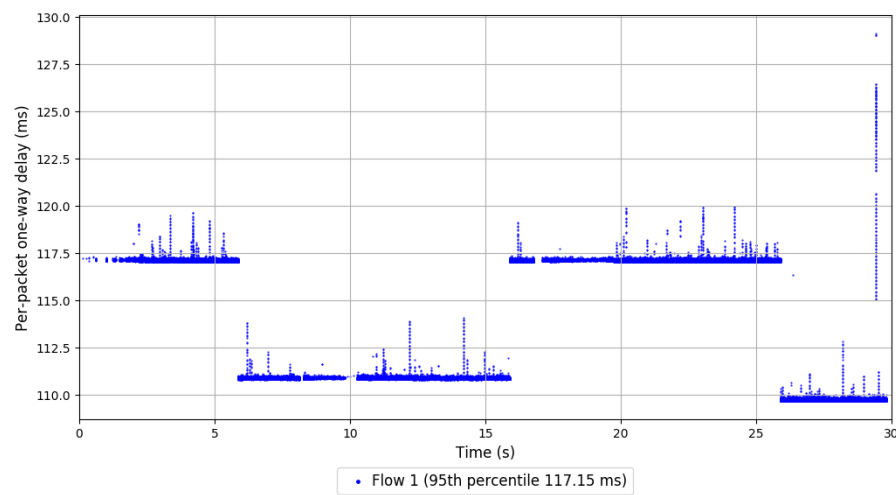
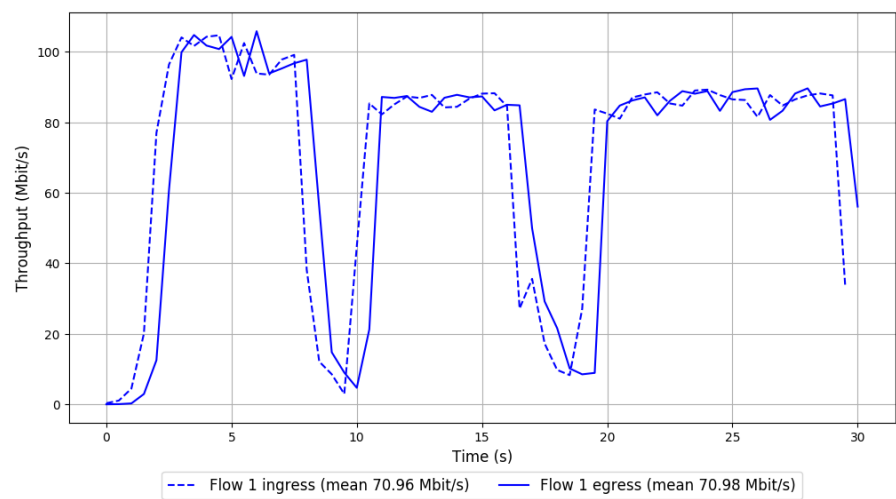
-- Flow 1:

Average throughput: 70.98 Mbit/s

95th percentile per-packet one-way delay: 117.150 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

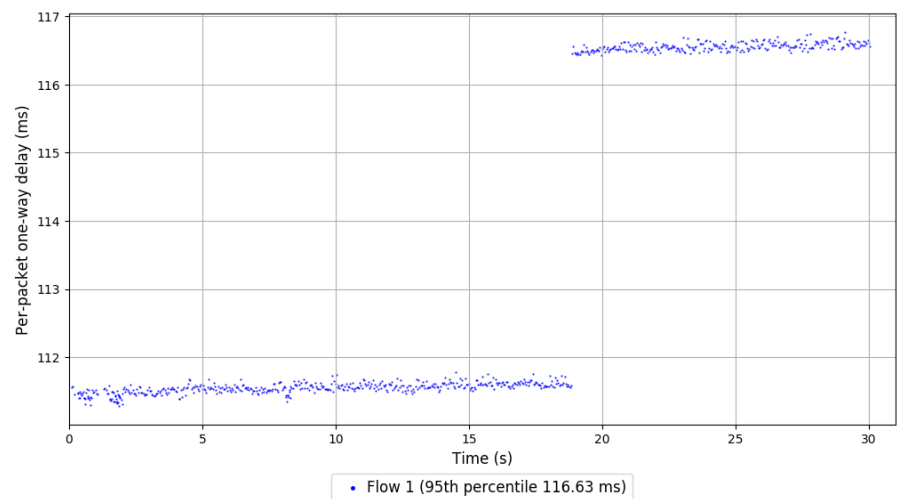
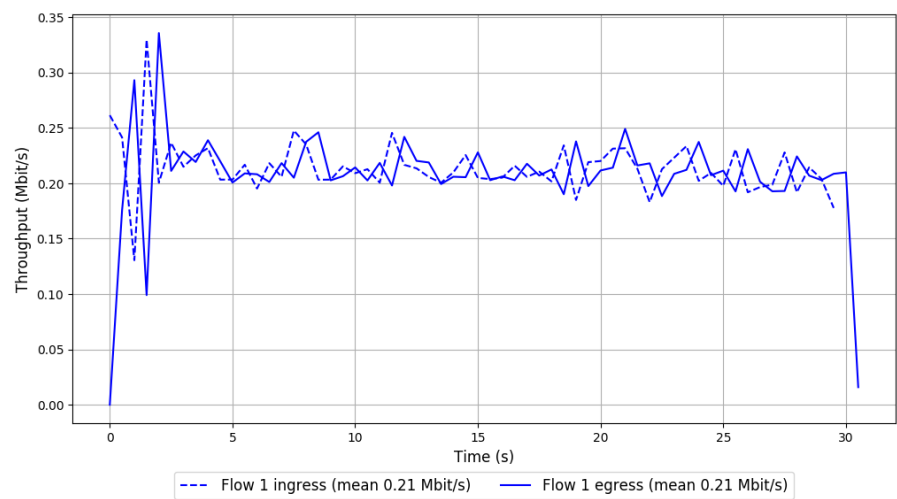


```
Run 1: Statistics of SCReAM

Start at: 2018-05-21 21:49:56
End at: 2018-05-21 21:50:26
Local clock offset: 14.699 ms
Remote clock offset: 0.121 ms

# Below is generated by plot.py at 2018-05-22 01:41:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 116.634 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 116.634 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

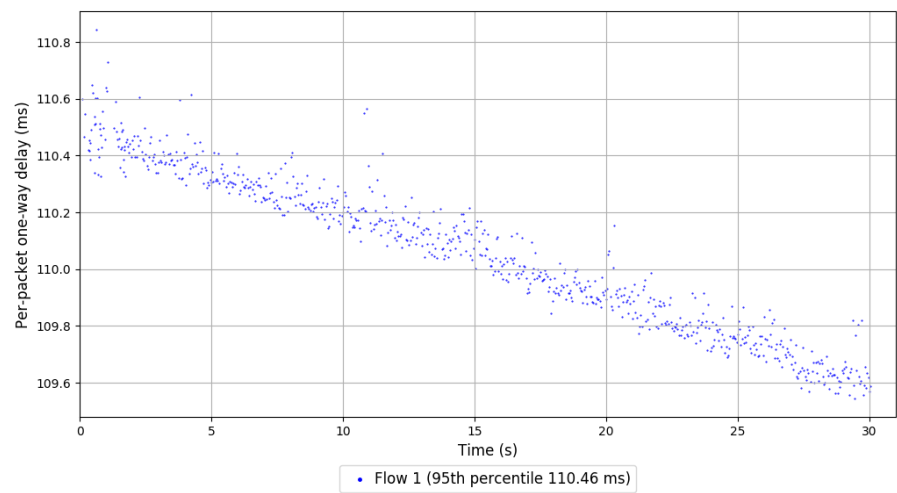
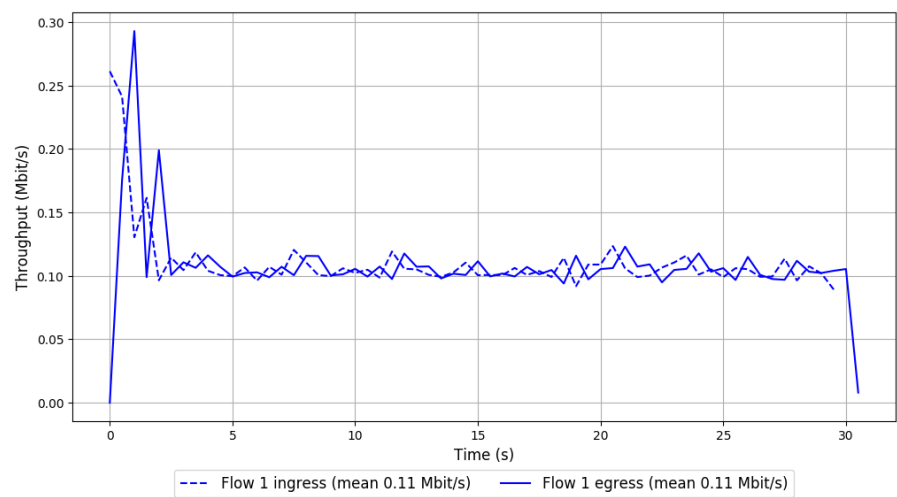


```
Run 2: Statistics of SCReAM

Start at: 2018-05-21 22:10:30
End at: 2018-05-21 22:11:00
Local clock offset: 20.752 ms
Remote clock offset: 0.06 ms

# Below is generated by plot.py at 2018-05-22 01:41:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 110.456 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 110.456 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

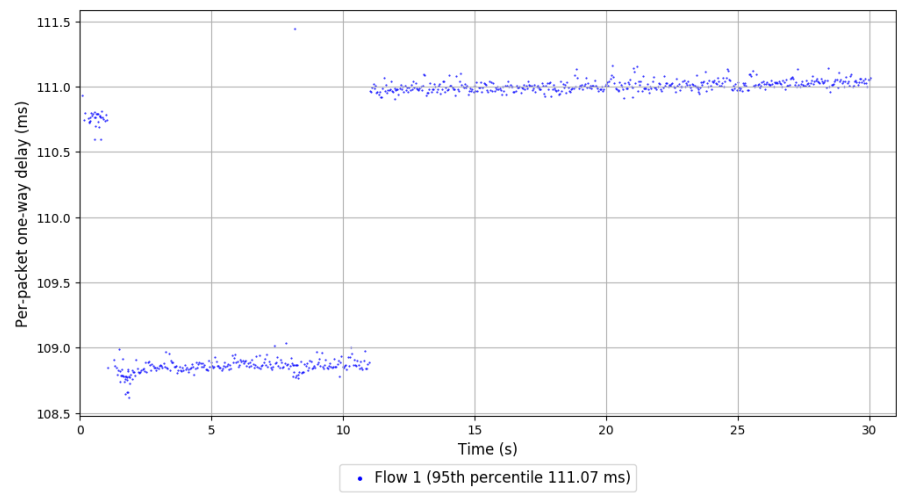
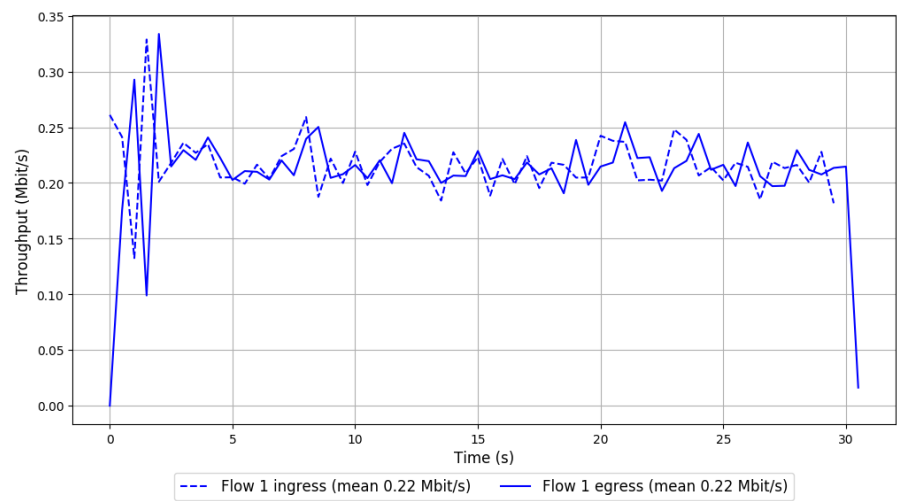


Run 3: Statistics of SCReAM

Start at: 2018-05-21 22:31:24
End at: 2018-05-21 22:31:54
Local clock offset: 10.291 ms
Remote clock offset: -0.294 ms

Below is generated by plot.py at 2018-05-22 01:41:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.067 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.067 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

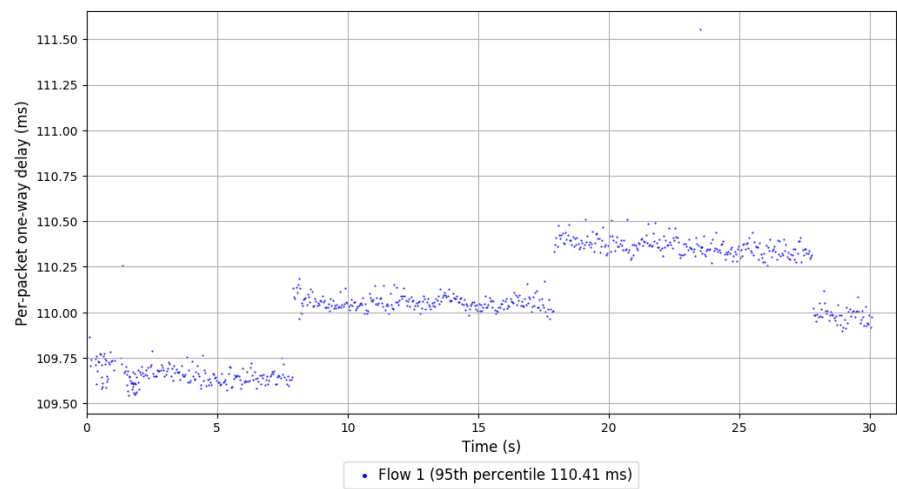
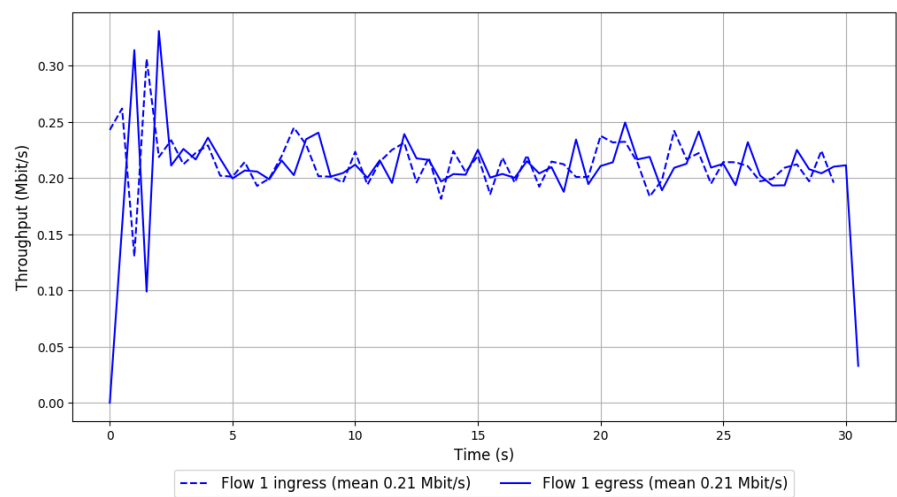


Run 4: Statistics of SCReAM

Start at: 2018-05-21 22:51:47
End at: 2018-05-21 22:52:17
Local clock offset: 5.013 ms
Remote clock offset: -0.404 ms

Below is generated by plot.py at 2018-05-22 01:41:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 110.406 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 110.406 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-05-21 23:12:14

End at: 2018-05-21 23:12:44

Local clock offset: 2.844 ms

Remote clock offset: 0.321 ms

Below is generated by plot.py at 2018-05-22 01:41:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.404 ms

Loss rate: 0.00%

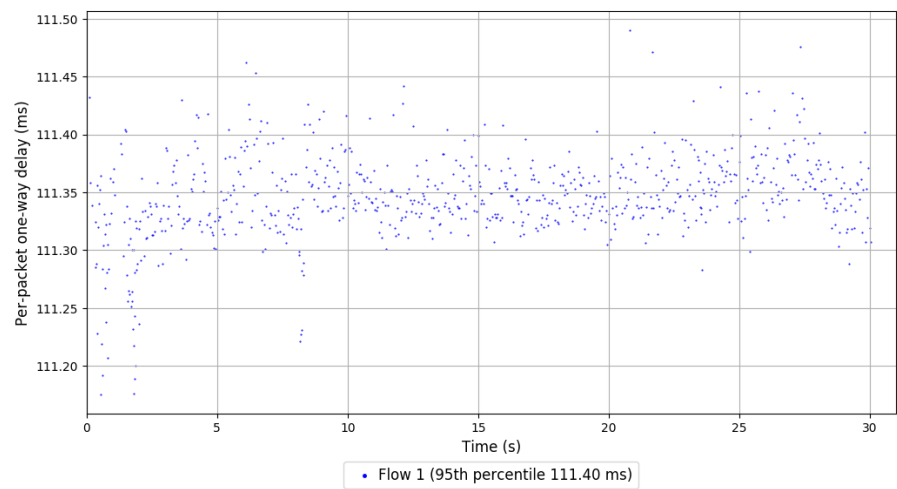
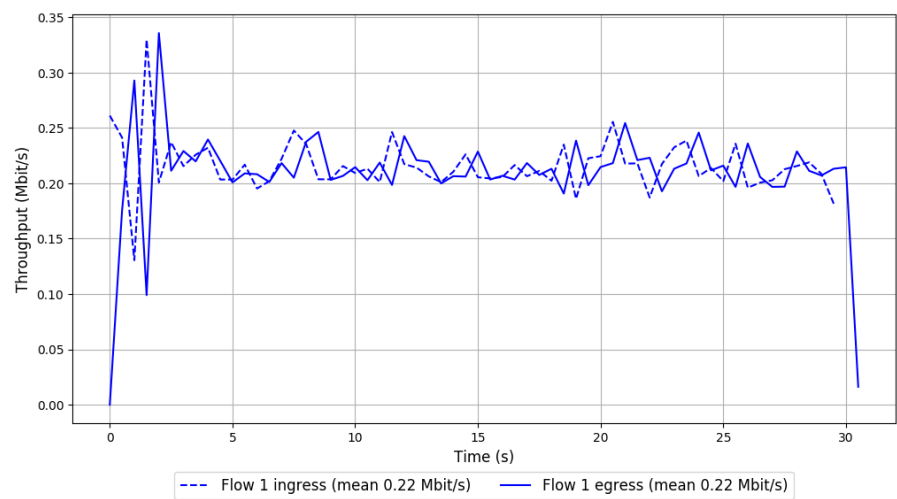
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.404 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

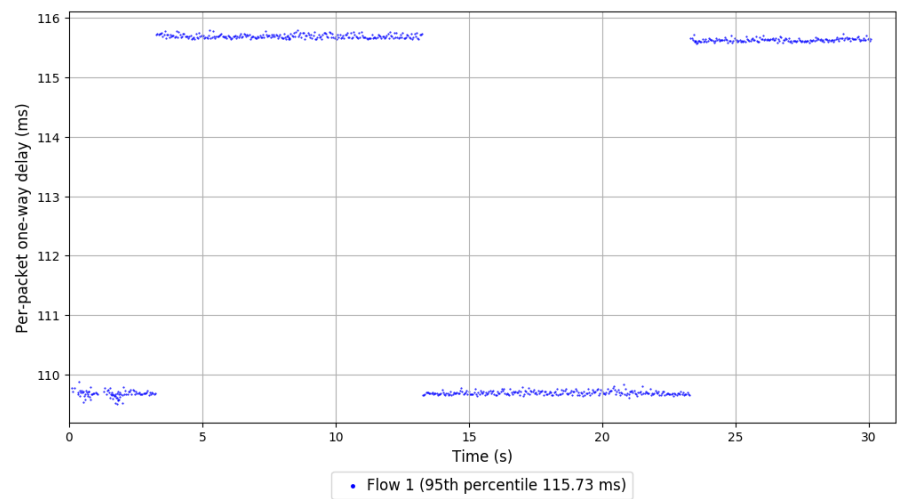
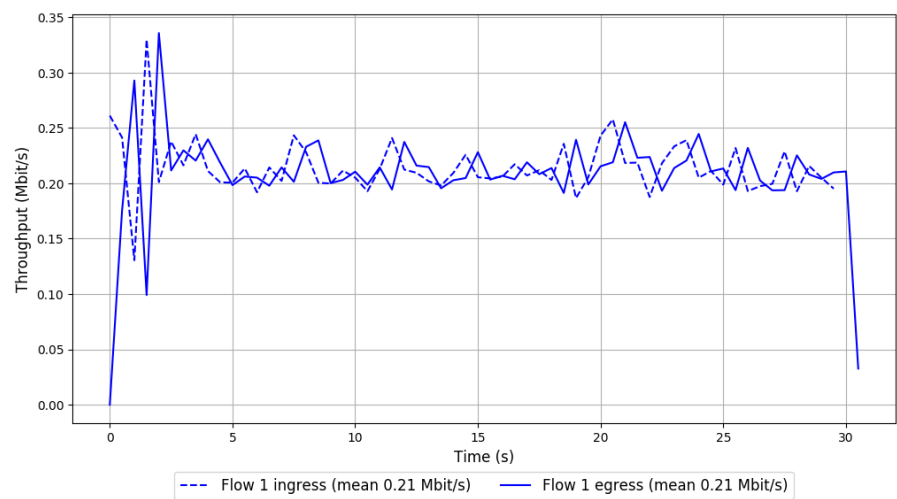


Run 6: Statistics of SCReAM

Start at: 2018-05-21 23:32:32
End at: 2018-05-21 23:33:02
Local clock offset: 1.209 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2018-05-22 01:41:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 115.735 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 115.735 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

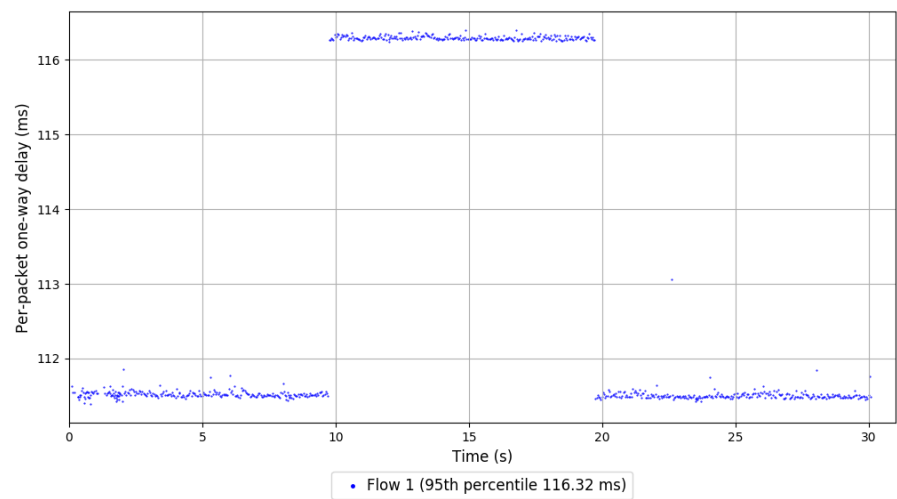
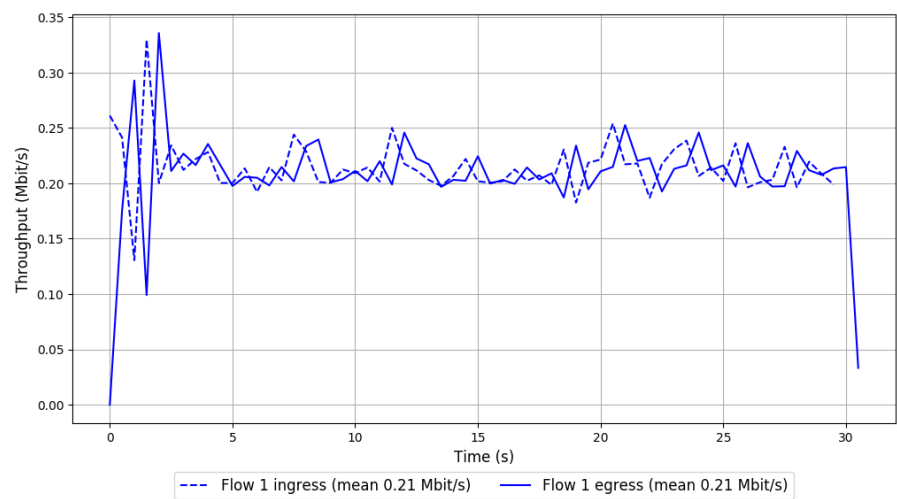


Run 7: Statistics of SCReAM

Start at: 2018-05-21 23:52:55
End at: 2018-05-21 23:53:25
Local clock offset: 0.675 ms
Remote clock offset: -0.075 ms

Below is generated by plot.py at 2018-05-22 01:41:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 116.318 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 116.318 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

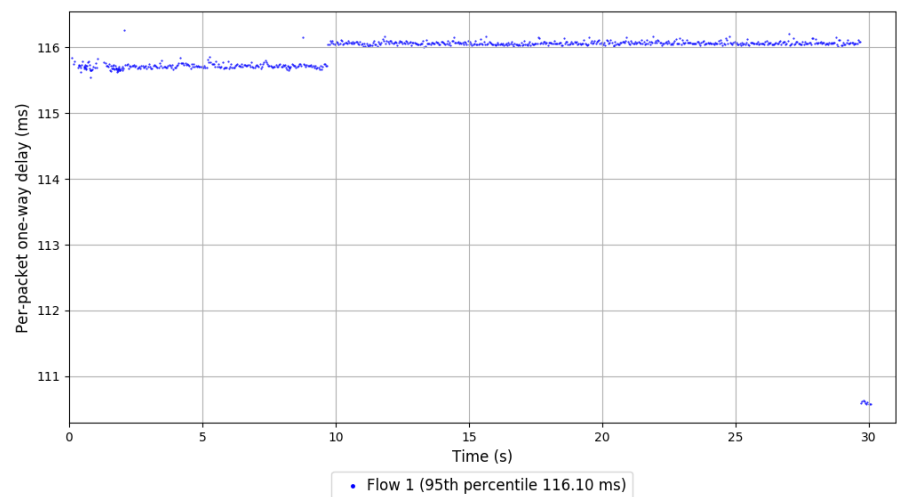
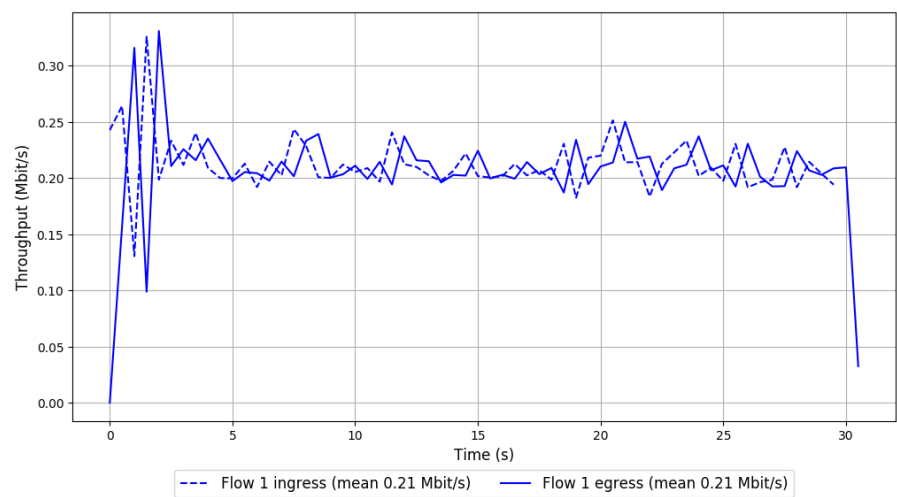


Run 8: Statistics of SCReAM

Start at: 2018-05-22 00:13:15
End at: 2018-05-22 00:13:46
Local clock offset: 0.521 ms
Remote clock offset: -0.069 ms

Below is generated by plot.py at 2018-05-22 01:41:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 116.104 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 116.104 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

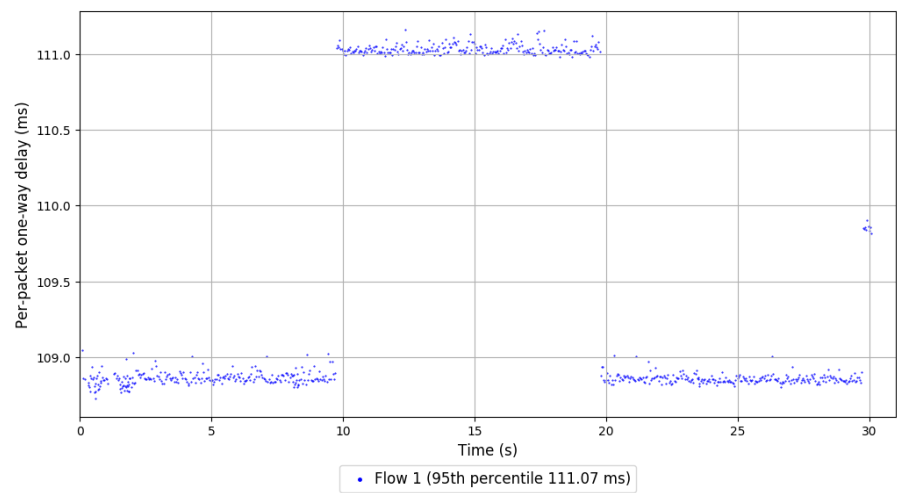
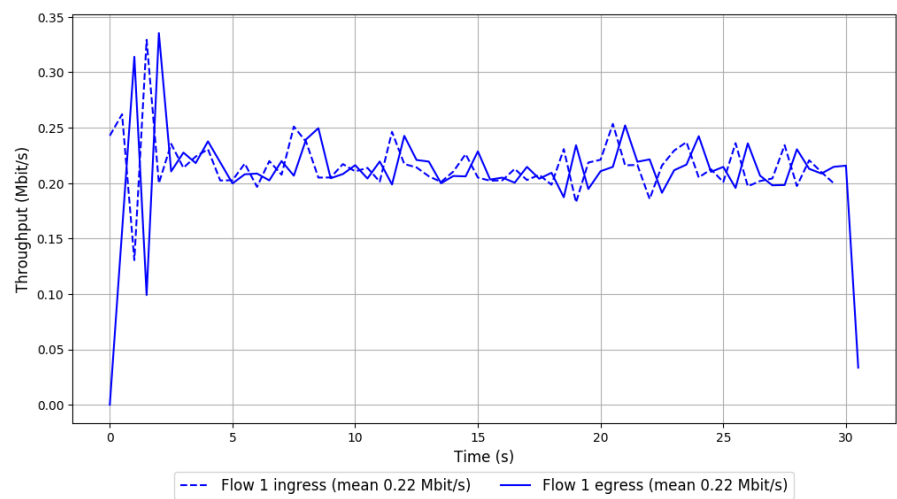


Run 9: Statistics of SCReAM

Start at: 2018-05-22 00:33:22
End at: 2018-05-22 00:33:52
Local clock offset: 0.329 ms
Remote clock offset: -0.153 ms

Below is generated by plot.py at 2018-05-22 01:41:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.066 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.066 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

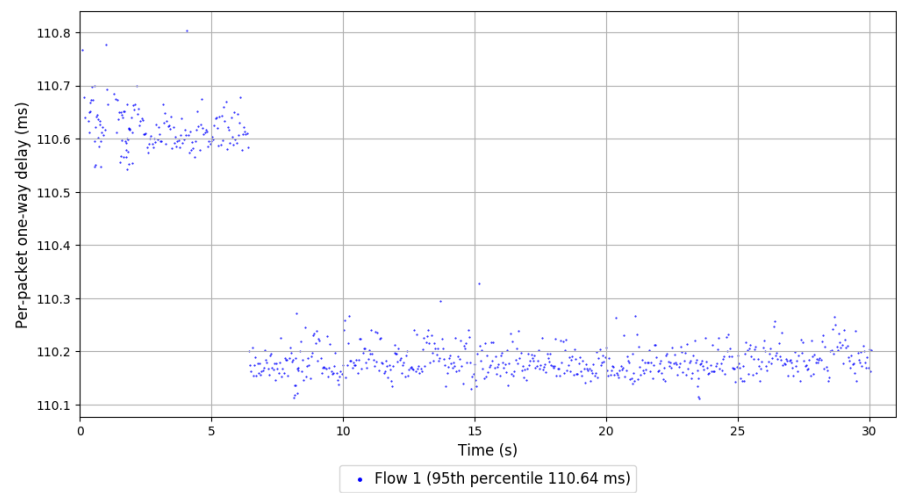
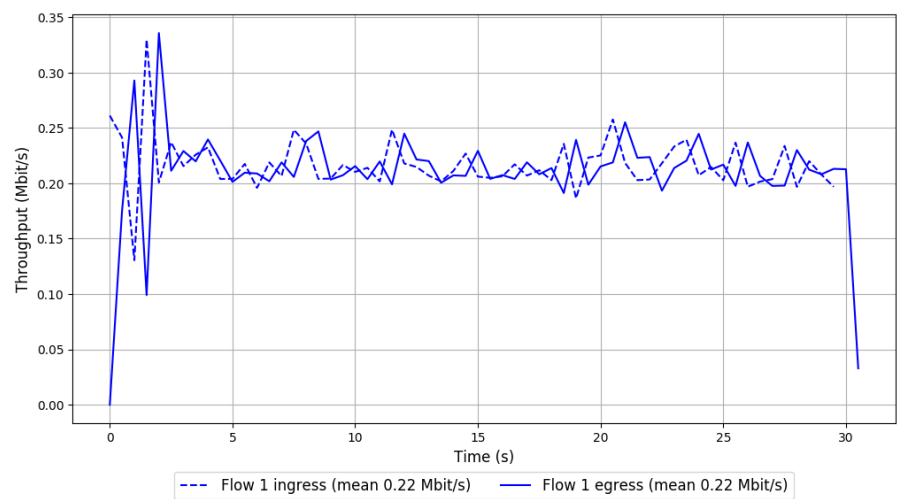


Run 10: Statistics of SCReAM

Start at: 2018-05-22 00:53:29
End at: 2018-05-22 00:53:59
Local clock offset: 0.679 ms
Remote clock offset: -0.099 ms

Below is generated by plot.py at 2018-05-22 01:41:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.642 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.642 ms
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

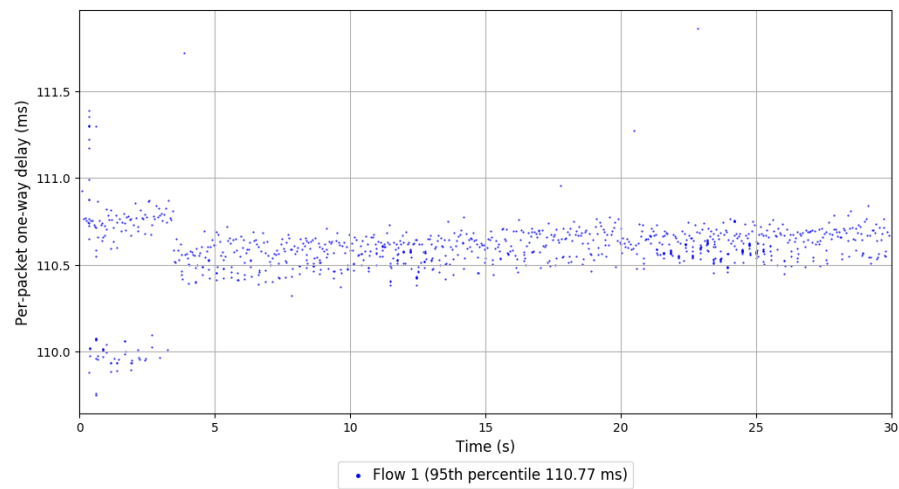
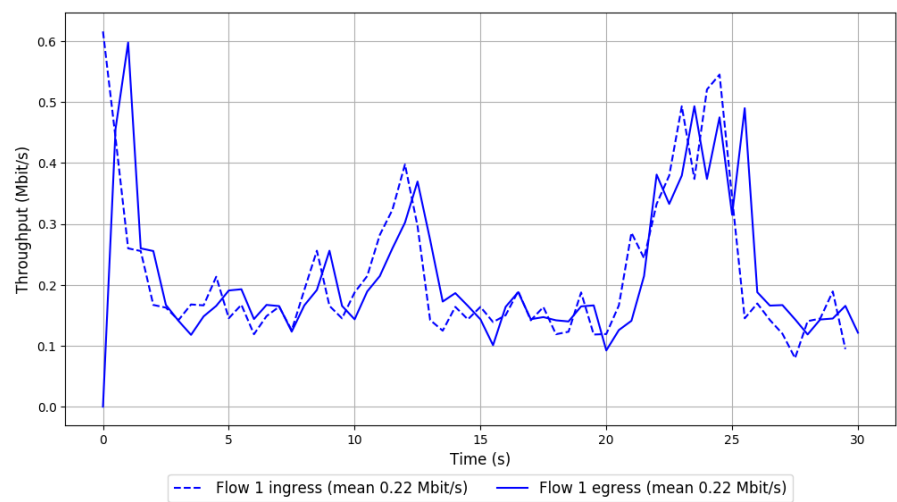


```
Run 1: Statistics of Sprout

Start at: 2018-05-21 21:45:21
End at: 2018-05-21 21:45:51
Local clock offset: 13.361 ms
Remote clock offset: 0.056 ms

# Below is generated by plot.py at 2018-05-22 01:41:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.768 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.768 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-05-21 22:05:57

End at: 2018-05-21 22:06:27

Local clock offset: 24.462 ms

Remote clock offset: 0.063 ms

Below is generated by plot.py at 2018-05-22 01:41:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 112.161 ms

Loss rate: 0.00%

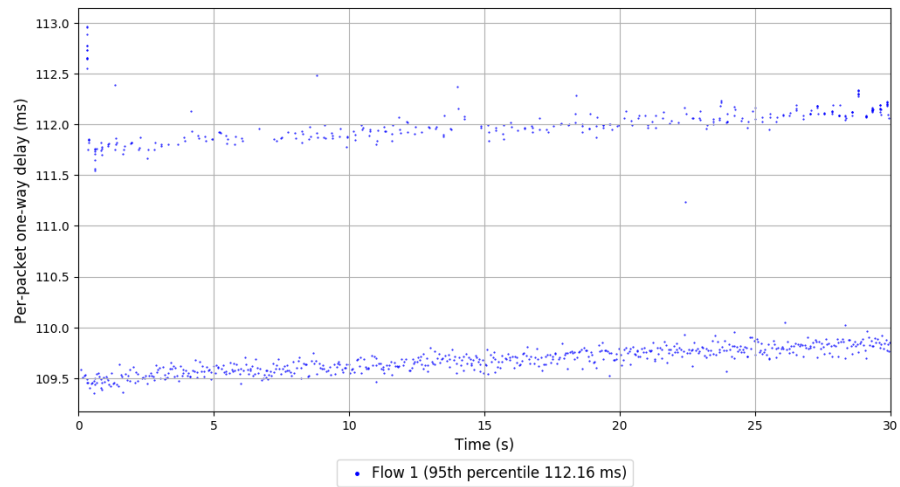
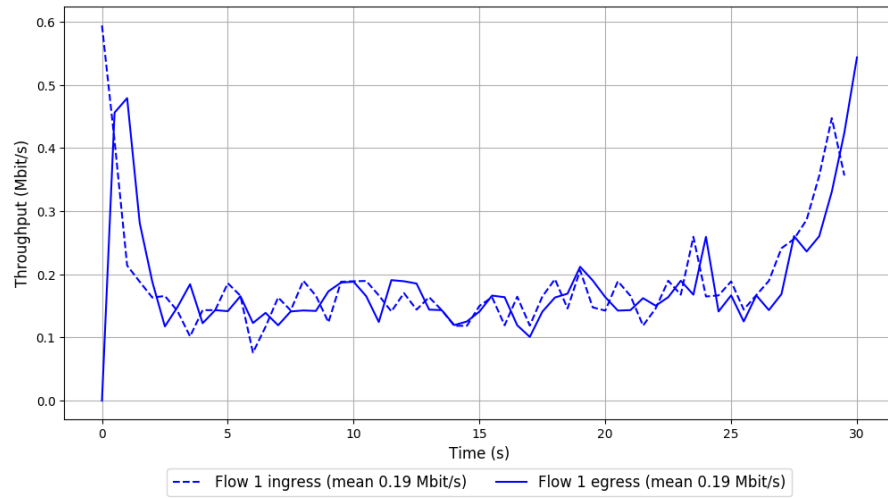
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 112.161 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-05-21 22:26:46

End at: 2018-05-21 22:27:16

Local clock offset: 9.626 ms

Remote clock offset: 0.023 ms

Below is generated by plot.py at 2018-05-22 01:41:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 116.239 ms

Loss rate: 0.00%

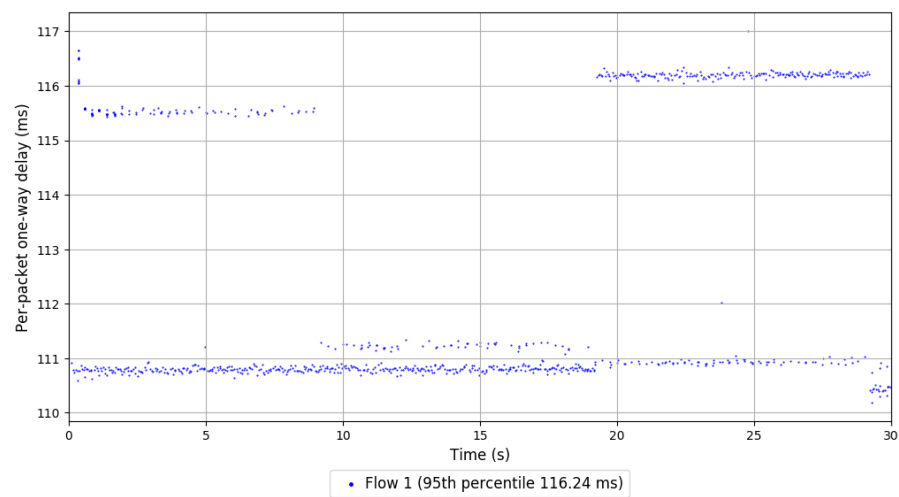
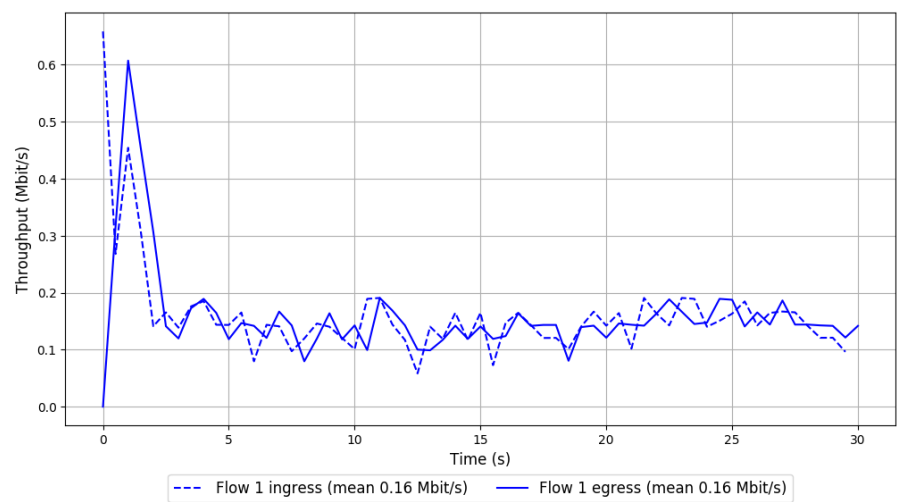
-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 116.239 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-05-21 22:47:04

End at: 2018-05-21 22:47:34

Local clock offset: 8.086 ms

Remote clock offset: 0.351 ms

Below is generated by plot.py at 2018-05-22 01:41:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 115.816 ms

Loss rate: 0.00%

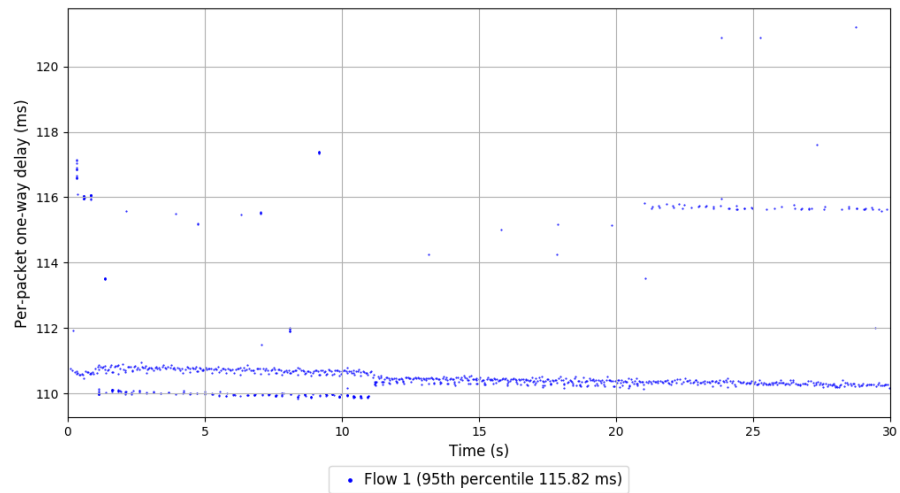
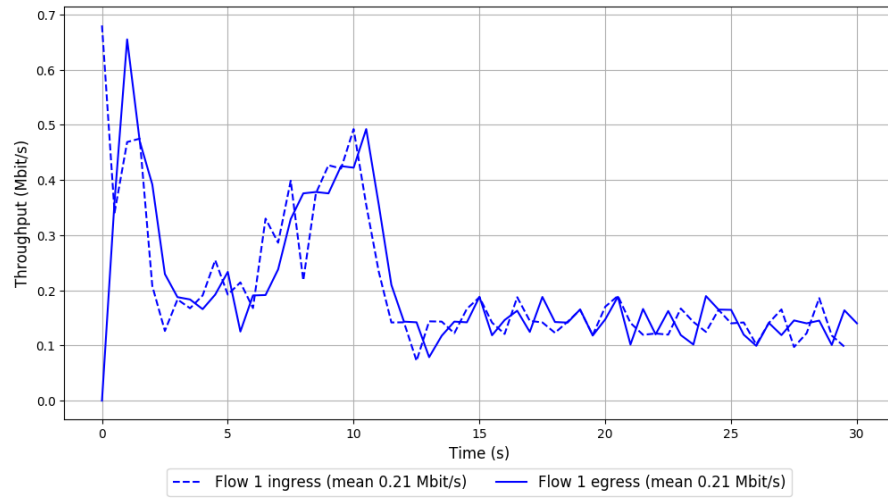
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 115.816 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-05-21 23:07:40

End at: 2018-05-21 23:08:10

Local clock offset: 2.765 ms

Remote clock offset: -0.36 ms

Below is generated by plot.py at 2018-05-22 01:41:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 115.859 ms

Loss rate: 0.00%

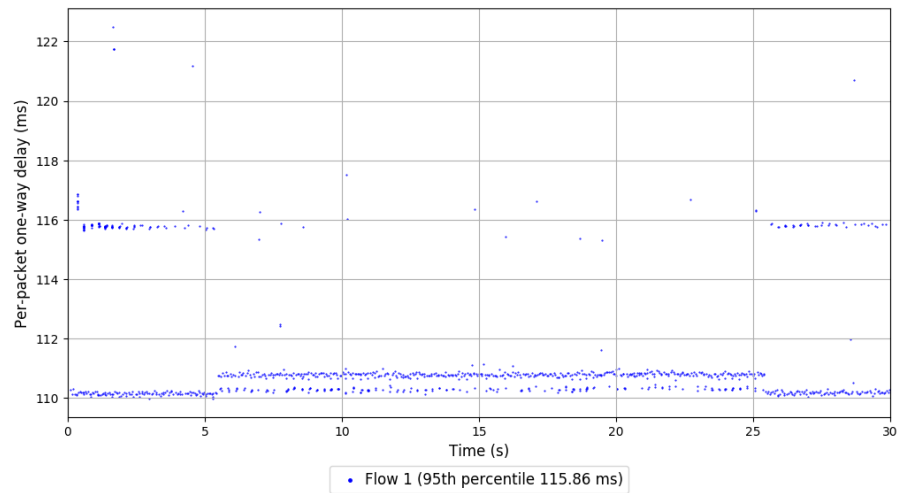
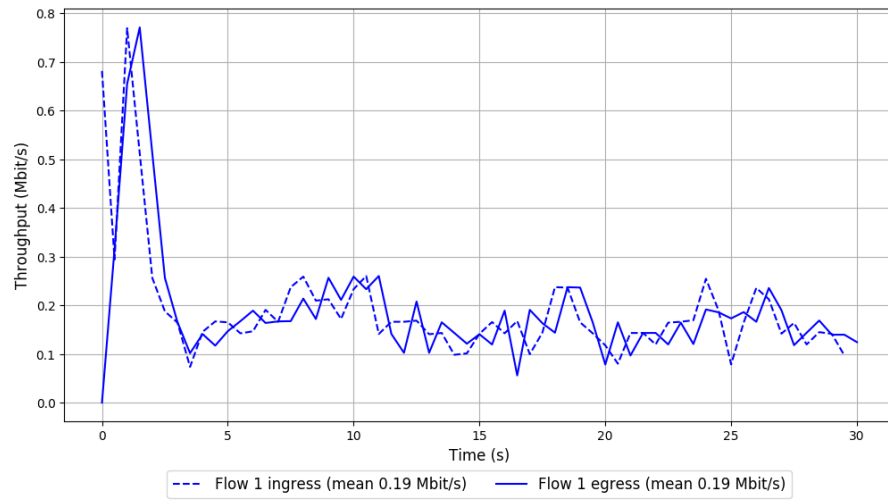
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 115.859 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

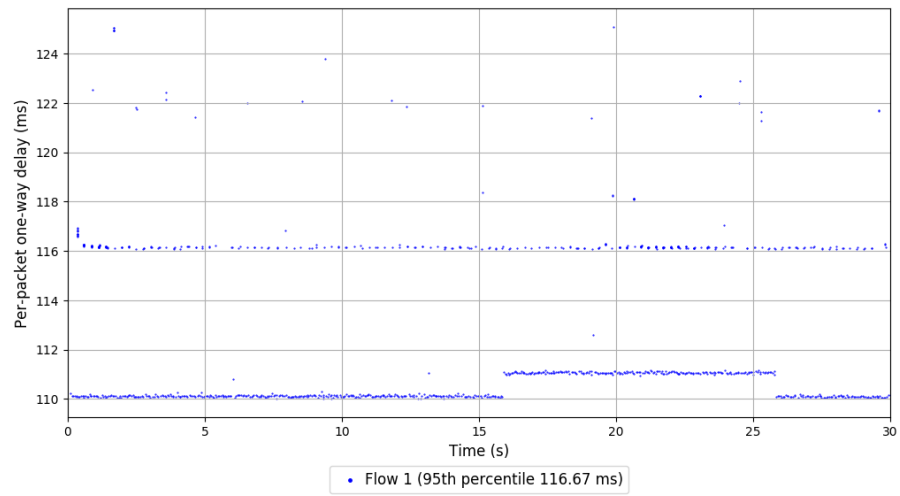
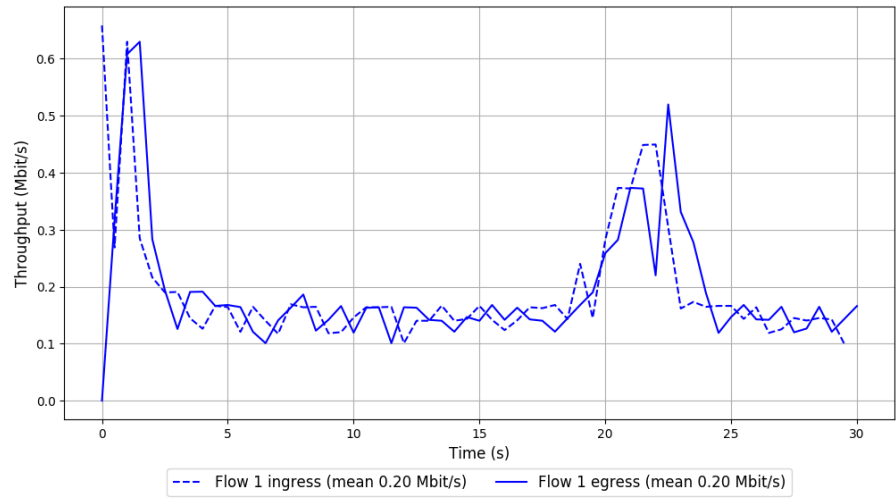


Run 6: Statistics of Sprout

Start at: 2018-05-21 23:27:56
End at: 2018-05-21 23:28:26
Local clock offset: 1.024 ms
Remote clock offset: -0.091 ms

Below is generated by plot.py at 2018-05-22 01:41:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 116.669 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 116.669 ms
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-05-21 23:48:22

End at: 2018-05-21 23:48:52

Local clock offset: 0.957 ms

Remote clock offset: 0.299 ms

Below is generated by plot.py at 2018-05-22 01:41:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 116.738 ms

Loss rate: 0.00%

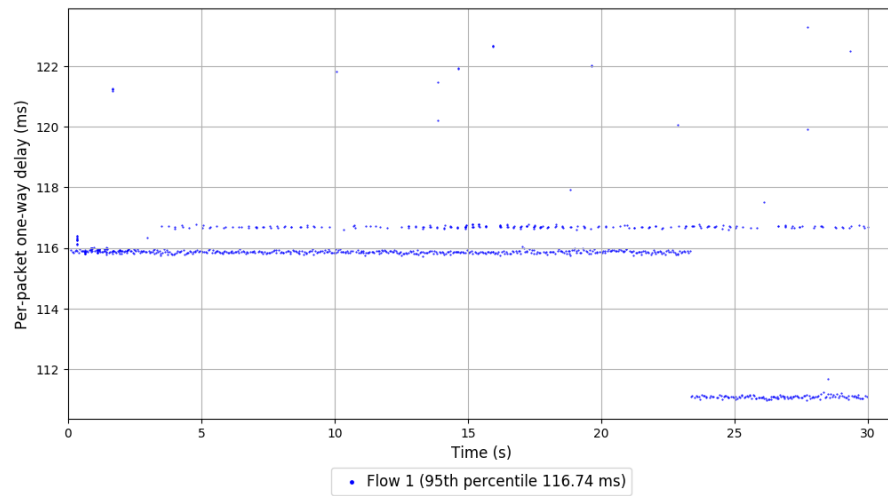
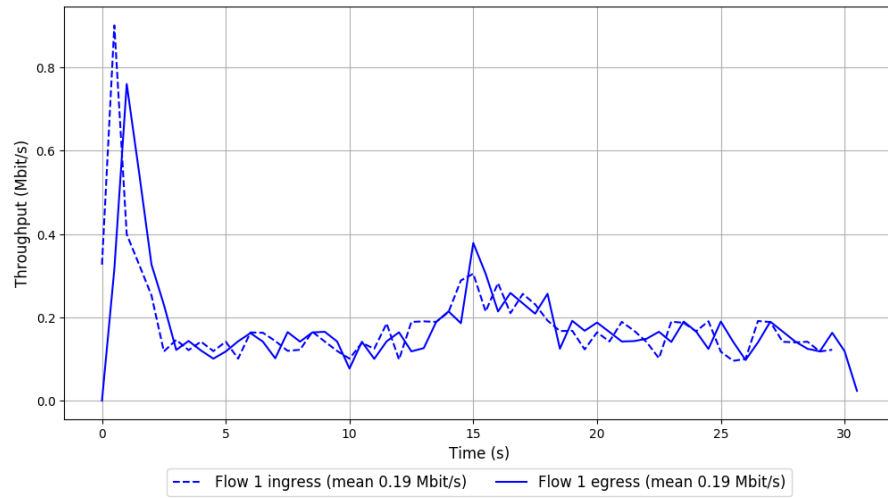
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 116.738 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

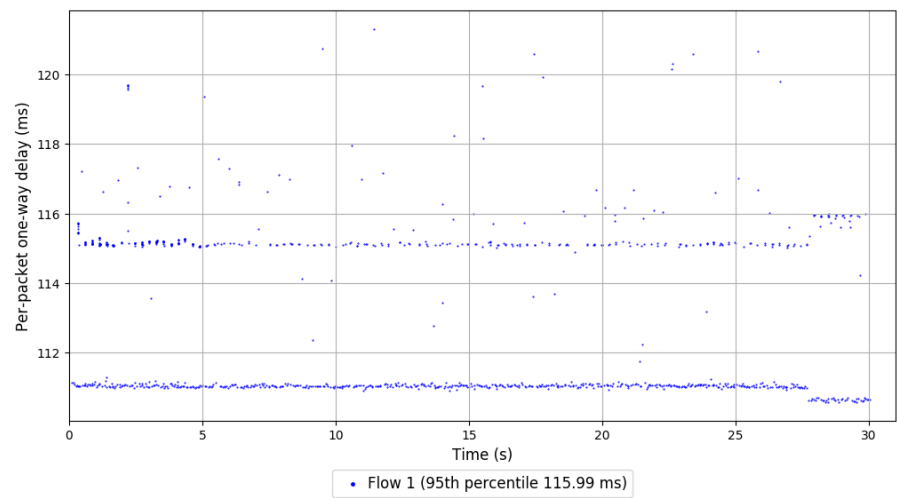
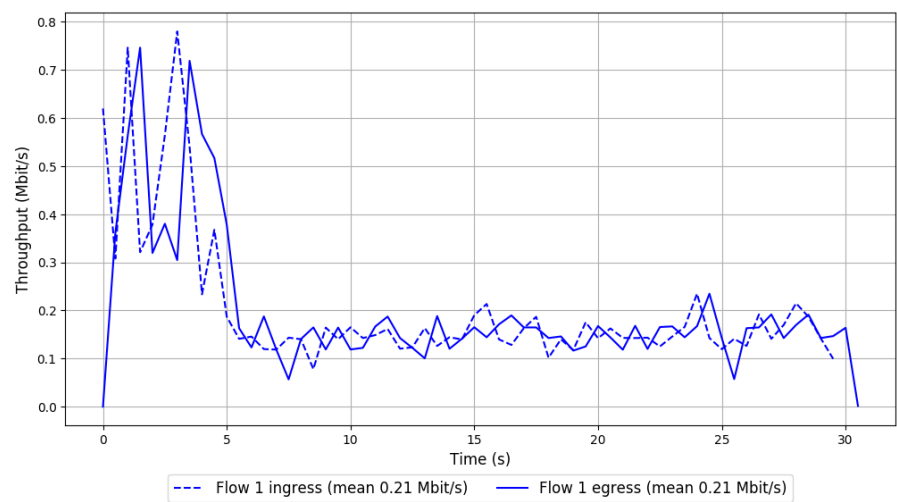


Run 8: Statistics of Sprout

Start at: 2018-05-22 00:08:37
End at: 2018-05-22 00:09:07
Local clock offset: 0.133 ms
Remote clock offset: -0.441 ms

Below is generated by plot.py at 2018-05-22 01:41:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 115.990 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 115.990 ms
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-05-22 00:28:46

End at: 2018-05-22 00:29:16

Local clock offset: 0.304 ms

Remote clock offset: 0.252 ms

Below is generated by plot.py at 2018-05-22 01:41:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 115.623 ms

Loss rate: 0.00%

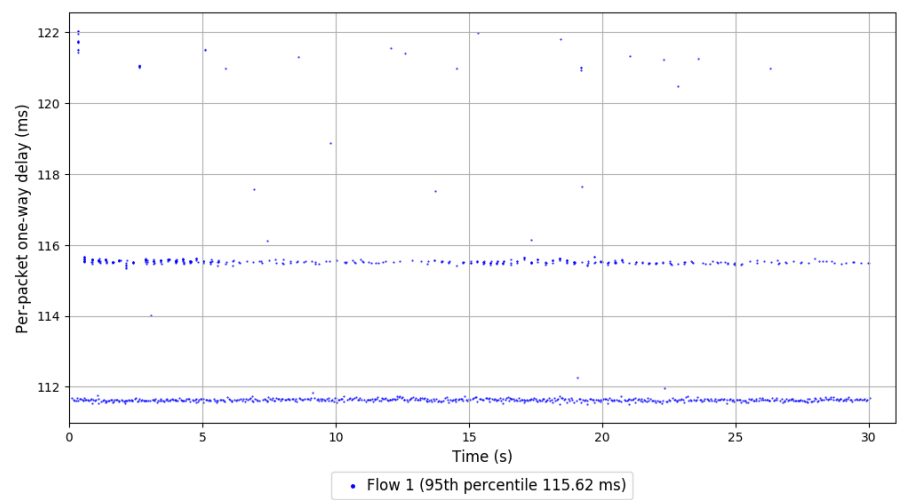
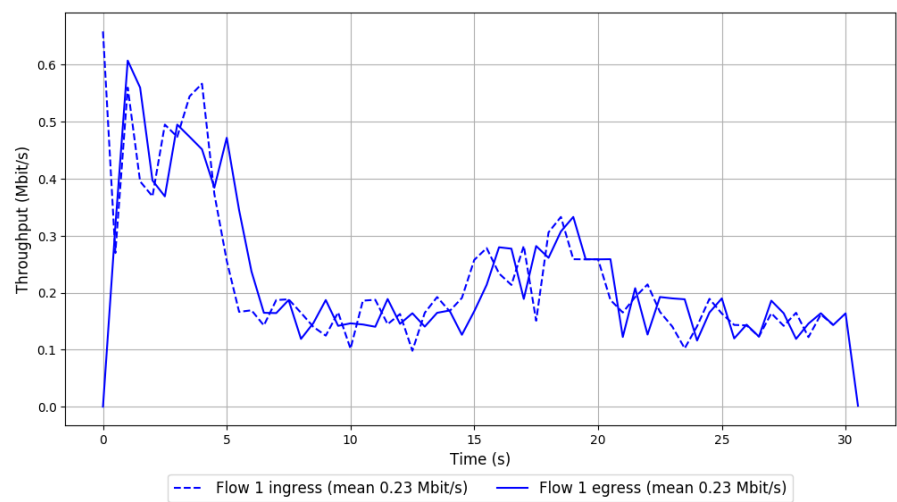
-- Flow 1:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 115.623 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

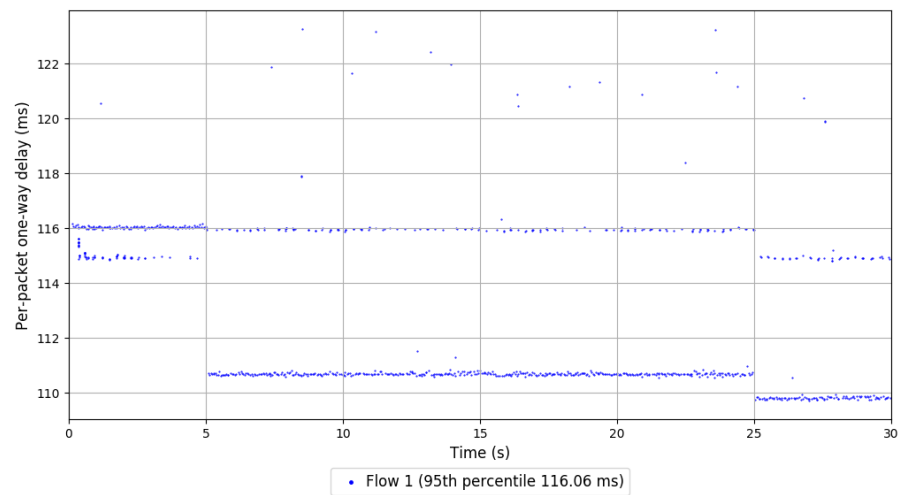
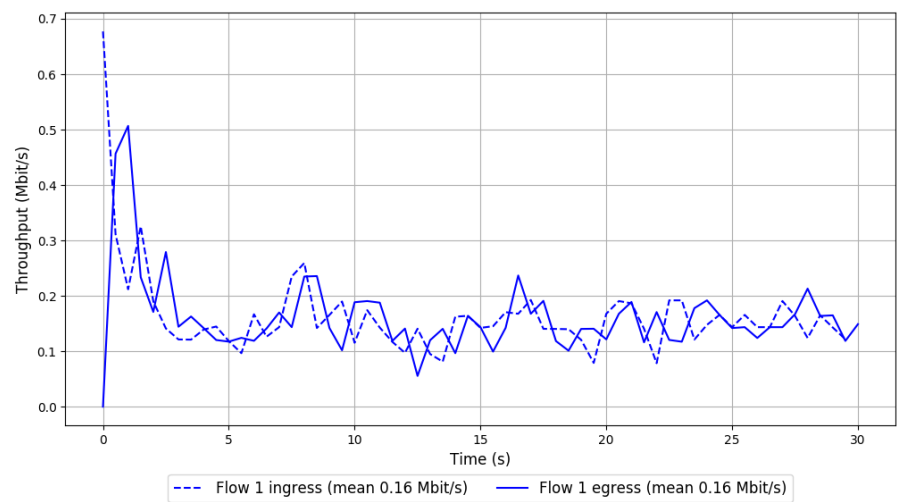


Run 10: Statistics of Sprout

Start at: 2018-05-22 00:48:50
End at: 2018-05-22 00:49:20
Local clock offset: 0.39 ms
Remote clock offset: -0.206 ms

Below is generated by plot.py at 2018-05-22 01:41:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 116.064 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 116.064 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

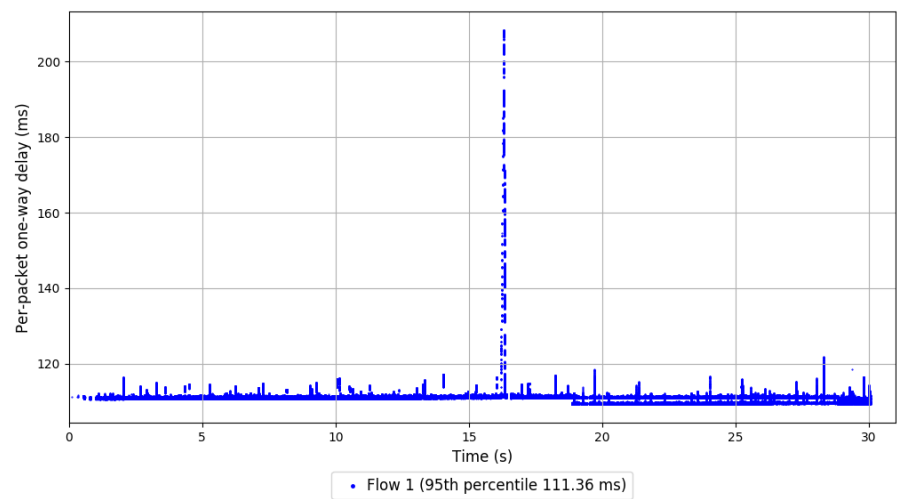
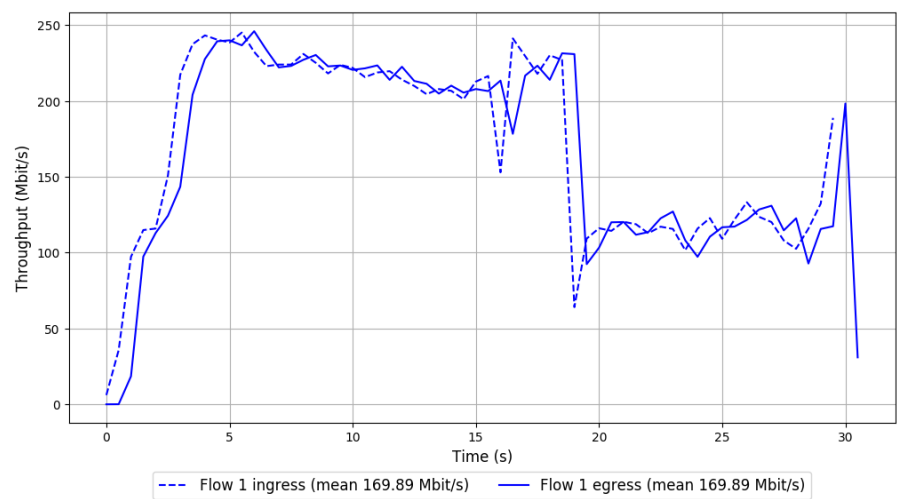


Run 1: Statistics of TaoVA-100x

Start at: 2018-05-21 21:31:46
End at: 2018-05-21 21:32:16
Local clock offset: 15.266 ms
Remote clock offset: -0.233 ms

Below is generated by plot.py at 2018-05-22 01:44:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 169.89 Mbit/s
95th percentile per-packet one-way delay: 111.363 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 169.89 Mbit/s
95th percentile per-packet one-way delay: 111.363 ms
Loss rate: 0.00%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-05-21 21:52:17

End at: 2018-05-21 21:52:47

Local clock offset: 15.82 ms

Remote clock offset: 0.523 ms

Below is generated by plot.py at 2018-05-22 01:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 114.26 Mbit/s

95th percentile per-packet one-way delay: 112.226 ms

Loss rate: 0.00%

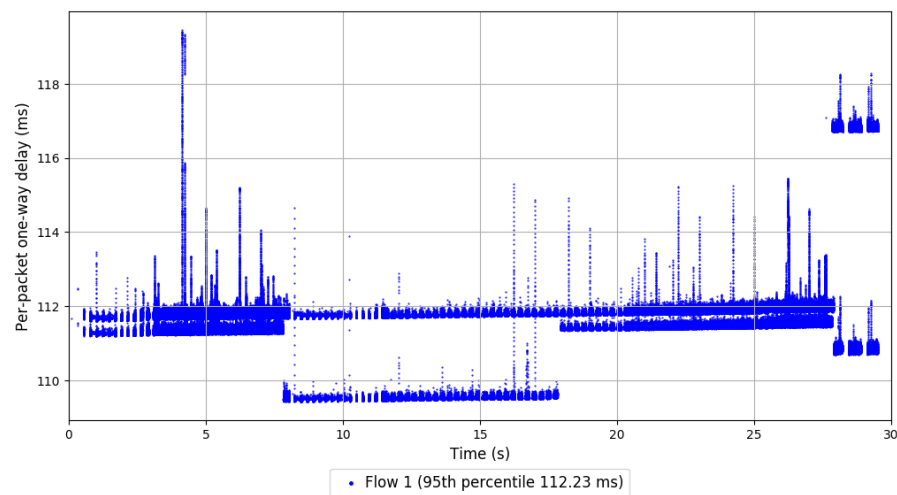
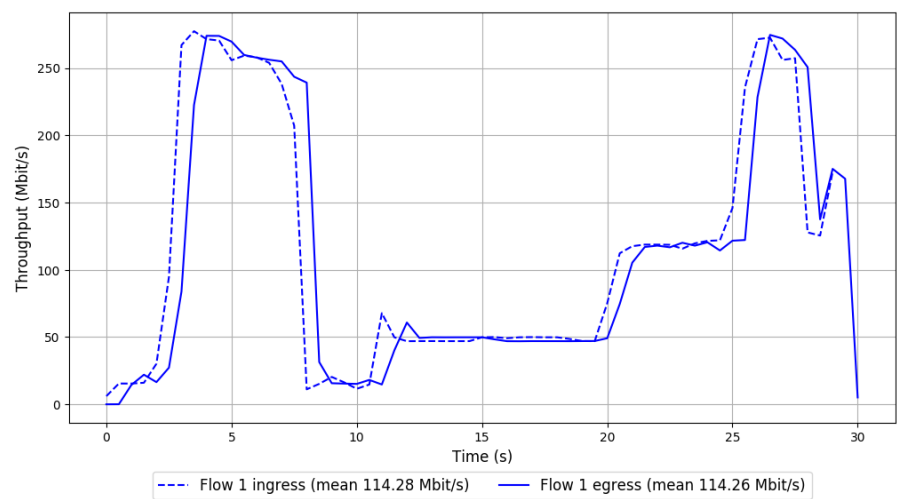
-- Flow 1:

Average throughput: 114.26 Mbit/s

95th percentile per-packet one-way delay: 112.226 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-05-21 22:12:51

End at: 2018-05-21 22:13:21

Local clock offset: 16.586 ms

Remote clock offset: 0.058 ms

Below is generated by plot.py at 2018-05-22 01:46:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.30 Mbit/s

95th percentile per-packet one-way delay: 110.768 ms

Loss rate: 0.00%

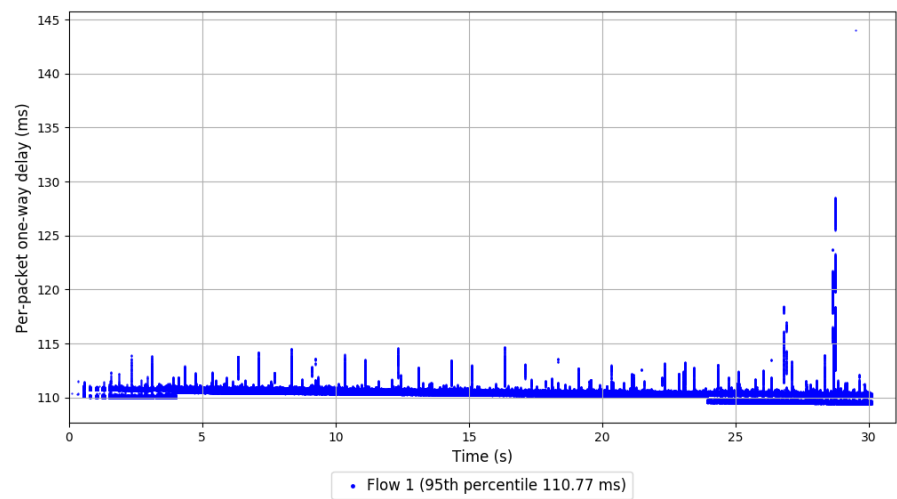
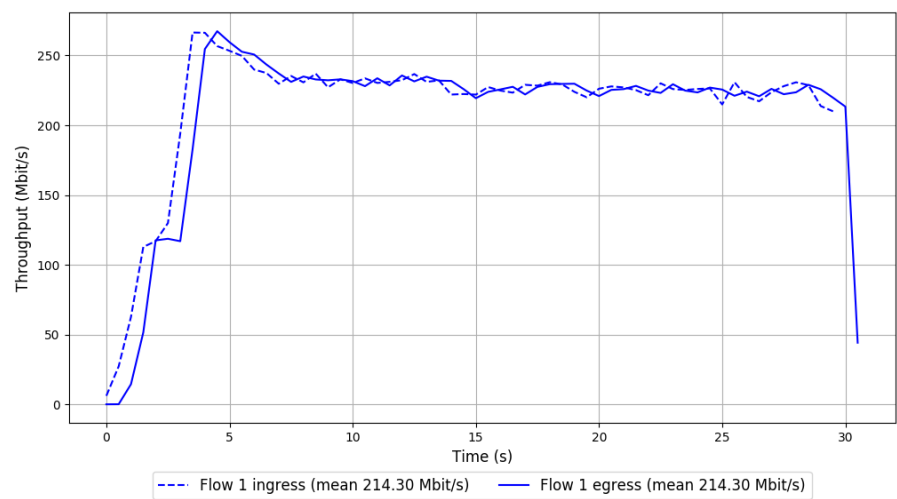
-- Flow 1:

Average throughput: 214.30 Mbit/s

95th percentile per-packet one-way delay: 110.768 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-05-21 22:33:43

End at: 2018-05-21 22:34:13

Local clock offset: 10.906 ms

Remote clock offset: 0.437 ms

Below is generated by plot.py at 2018-05-22 01:46:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 138.47 Mbit/s

95th percentile per-packet one-way delay: 111.543 ms

Loss rate: 0.00%

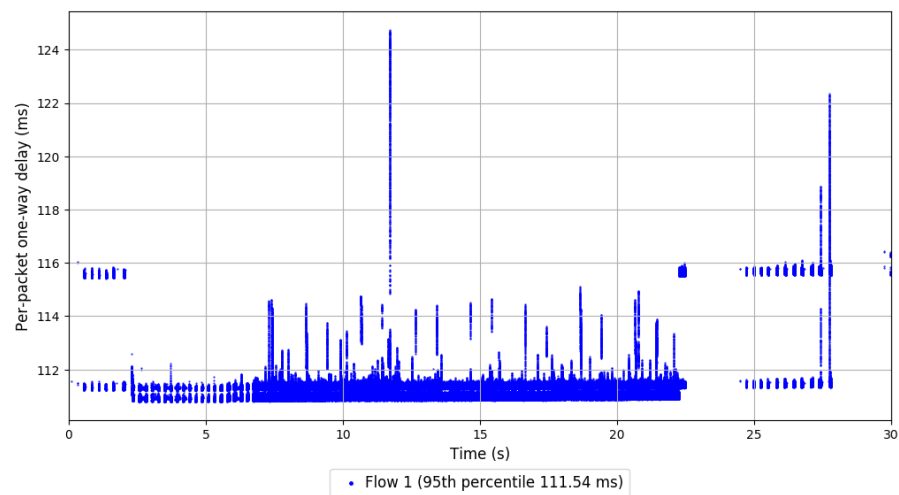
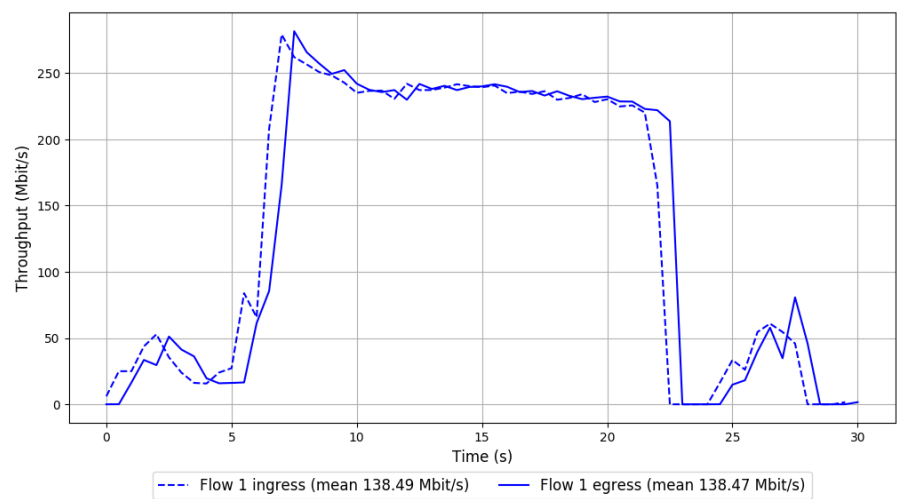
-- Flow 1:

Average throughput: 138.47 Mbit/s

95th percentile per-packet one-way delay: 111.543 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-05-21 22:54:08

End at: 2018-05-21 22:54:38

Local clock offset: 4.103 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-05-22 01:46:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.37 Mbit/s

95th percentile per-packet one-way delay: 118.714 ms

Loss rate: 0.00%

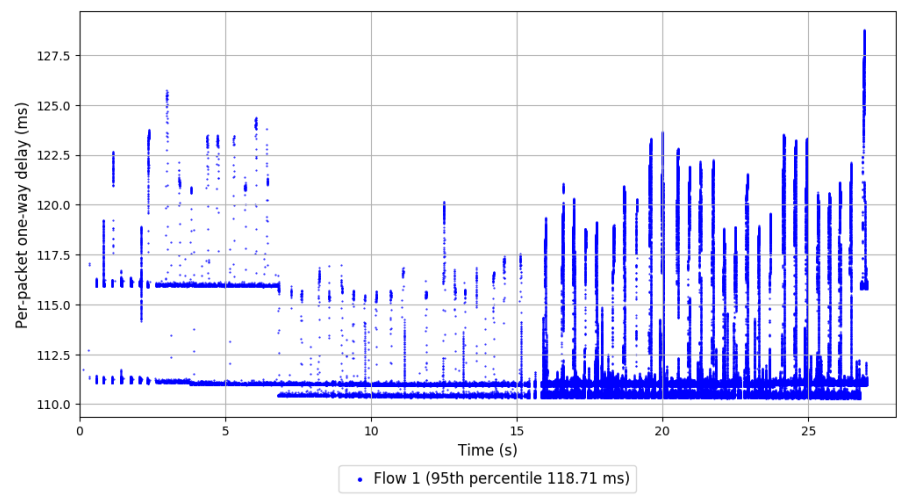
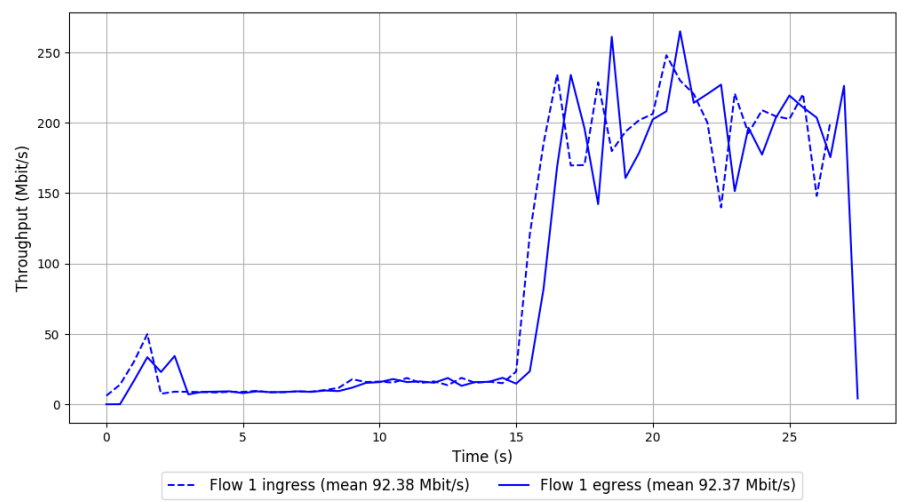
-- Flow 1:

Average throughput: 92.37 Mbit/s

95th percentile per-packet one-way delay: 118.714 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

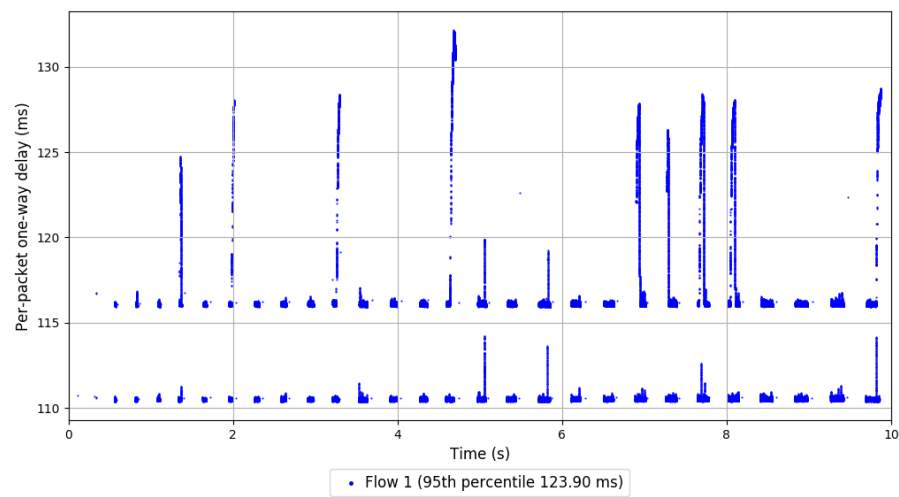
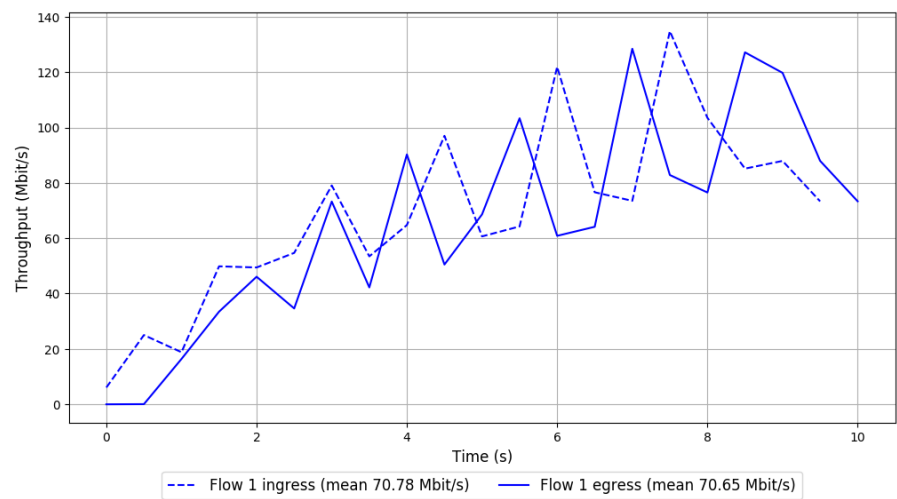
Start at: 2018-05-21 23:14:34

End at: 2018-05-21 23:15:04

Local clock offset: 2.918 ms

Remote clock offset: -0.07 ms

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

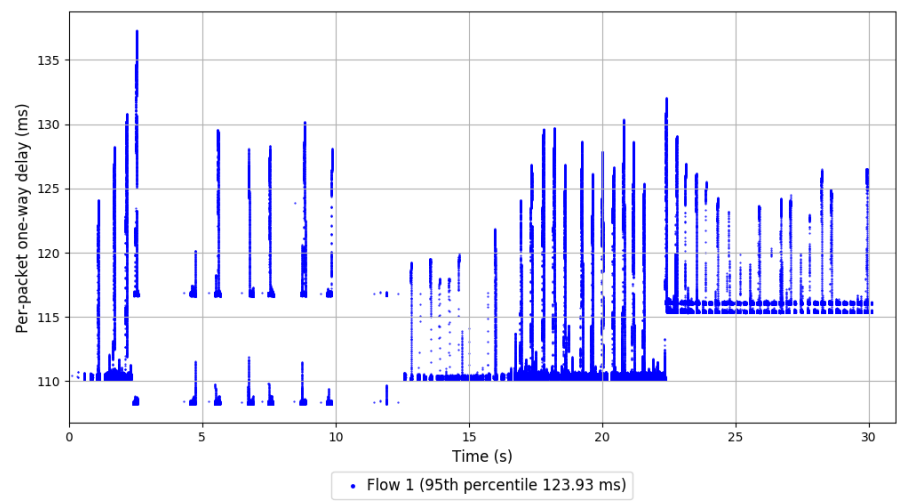
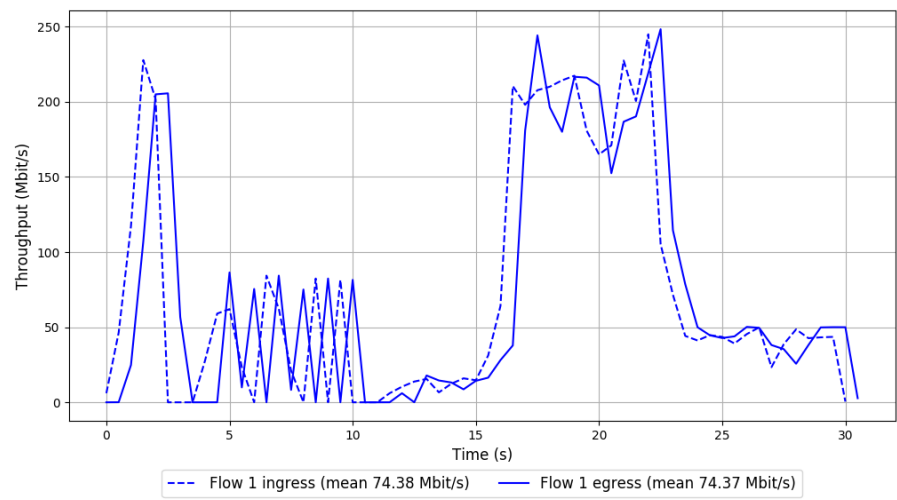


Run 7: Statistics of TaoVA-100x

Start at: 2018-05-21 23:34:53
End at: 2018-05-21 23:35:23
Local clock offset: 1.114 ms
Remote clock offset: -0.486 ms

Below is generated by plot.py at 2018-05-22 01:46:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 74.37 Mbit/s
95th percentile per-packet one-way delay: 123.926 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 74.37 Mbit/s
95th percentile per-packet one-way delay: 123.926 ms
Loss rate: 0.02%

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



Run 8: Statistics of TaoVA-100x

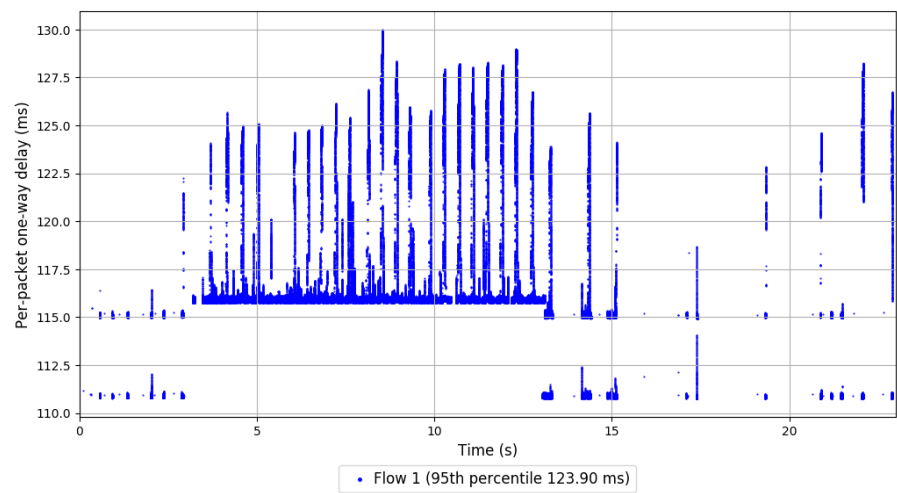
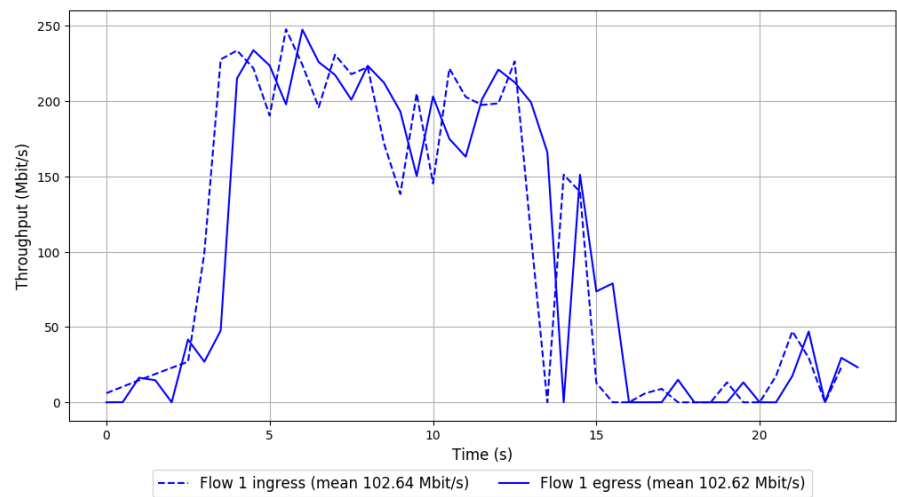
Start at: 2018-05-21 23:55:12

End at: 2018-05-21 23:55:42

Local clock offset: 0.825 ms

Remote clock offset: -0.086 ms

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-05-22 00:15:32

End at: 2018-05-22 00:16:02

Local clock offset: 0.429 ms

Remote clock offset: -0.439 ms

Below is generated by plot.py at 2018-05-22 01:46:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.73 Mbit/s

95th percentile per-packet one-way delay: 116.677 ms

Loss rate: 0.00%

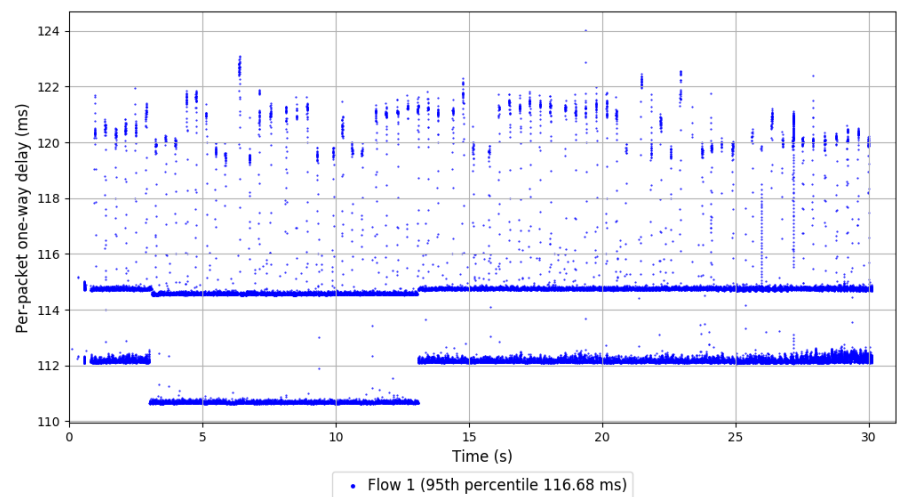
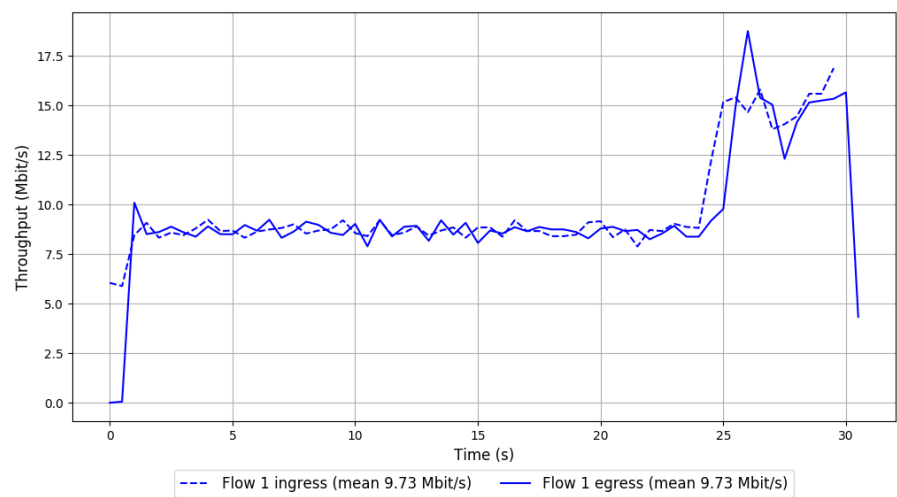
-- Flow 1:

Average throughput: 9.73 Mbit/s

95th percentile per-packet one-way delay: 116.677 ms

Loss rate: 0.00%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-05-22 00:35:39

End at: 2018-05-22 00:36:09

Local clock offset: 0.215 ms

Remote clock offset: -0.539 ms

Below is generated by plot.py at 2018-05-22 01:46:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.94 Mbit/s

95th percentile per-packet one-way delay: 119.525 ms

Loss rate: 0.00%

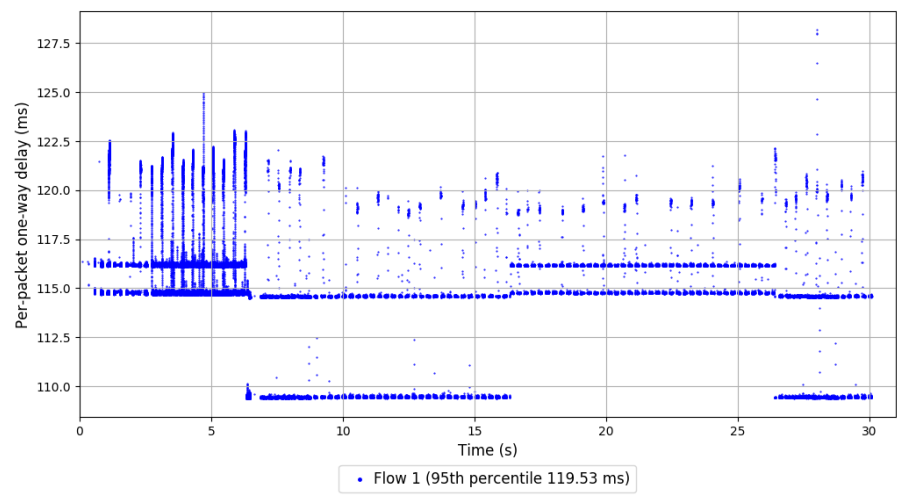
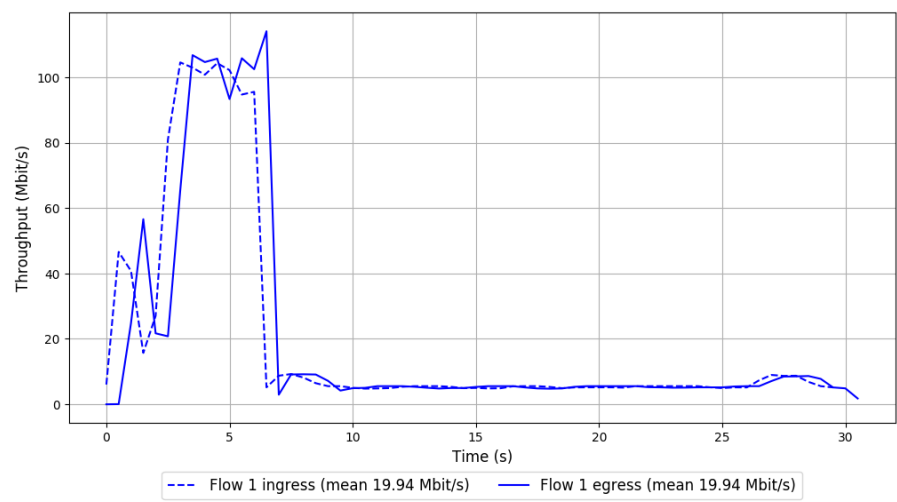
-- Flow 1:

Average throughput: 19.94 Mbit/s

95th percentile per-packet one-way delay: 119.525 ms

Loss rate: 0.00%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-05-21 21:51:04

End at: 2018-05-21 21:51:34

Local clock offset: 15.469 ms

Remote clock offset: 0.117 ms

Below is generated by plot.py at 2018-05-22 01:46:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.02 Mbit/s

95th percentile per-packet one-way delay: 121.473 ms

Loss rate: 0.00%

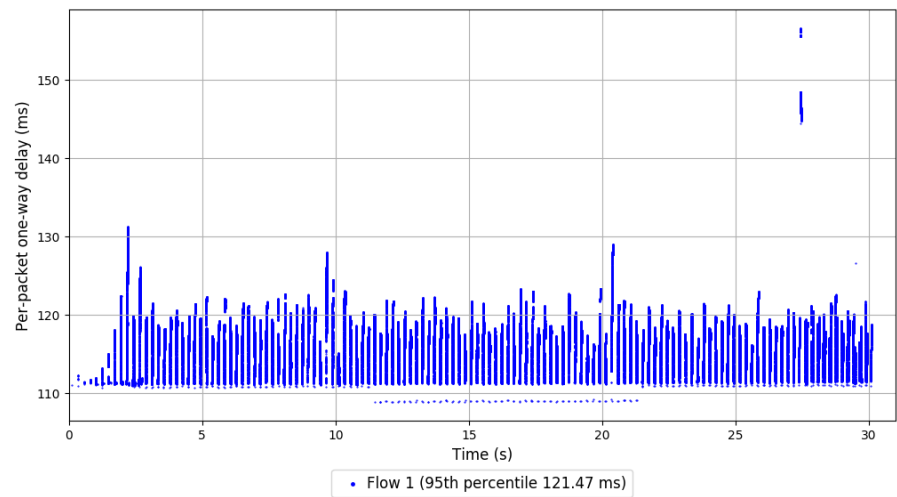
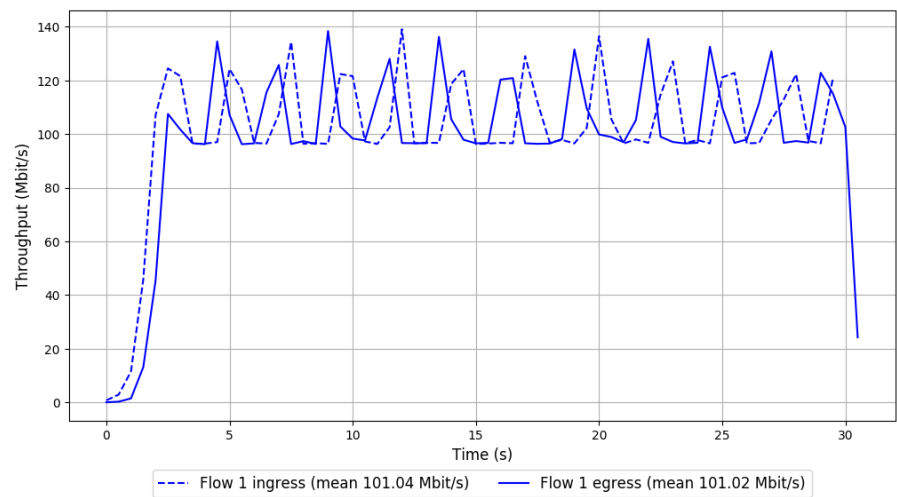
-- Flow 1:

Average throughput: 101.02 Mbit/s

95th percentile per-packet one-way delay: 121.473 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-05-21 22:11:38

End at: 2018-05-21 22:12:08

Local clock offset: 18.412 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2018-05-22 01:46:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.16 Mbit/s

95th percentile per-packet one-way delay: 120.789 ms

Loss rate: 0.02%

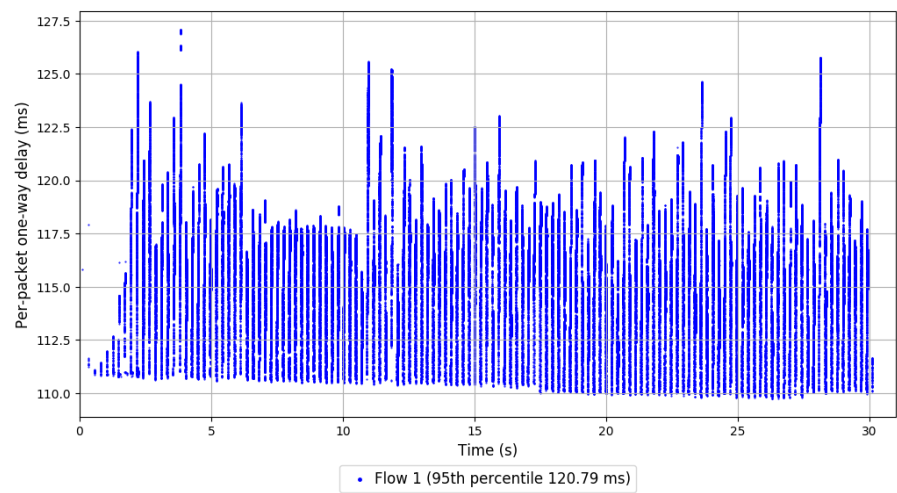
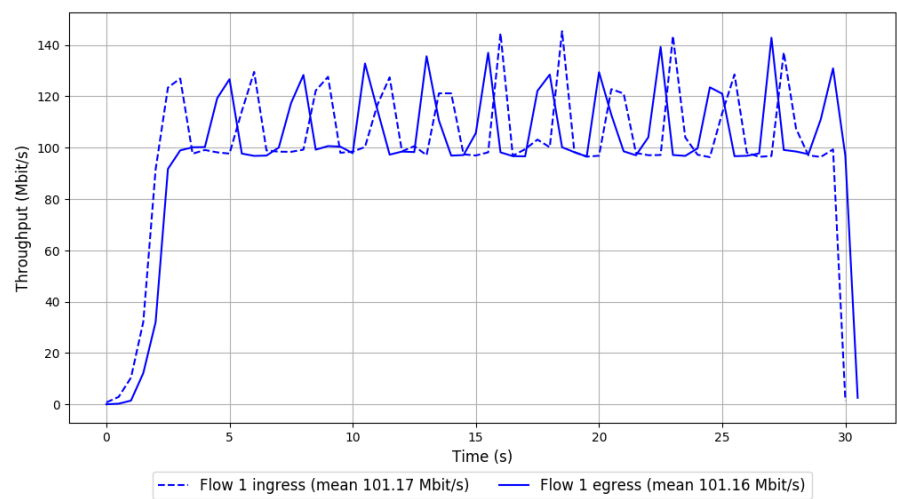
-- Flow 1:

Average throughput: 101.16 Mbit/s

95th percentile per-packet one-way delay: 120.789 ms

Loss rate: 0.02%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-05-21 22:32:31

End at: 2018-05-21 22:33:01

Local clock offset: 10.495 ms

Remote clock offset: 0.444 ms

Below is generated by plot.py at 2018-05-22 01:46:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.95 Mbit/s

95th percentile per-packet one-way delay: 112.101 ms

Loss rate: 0.00%

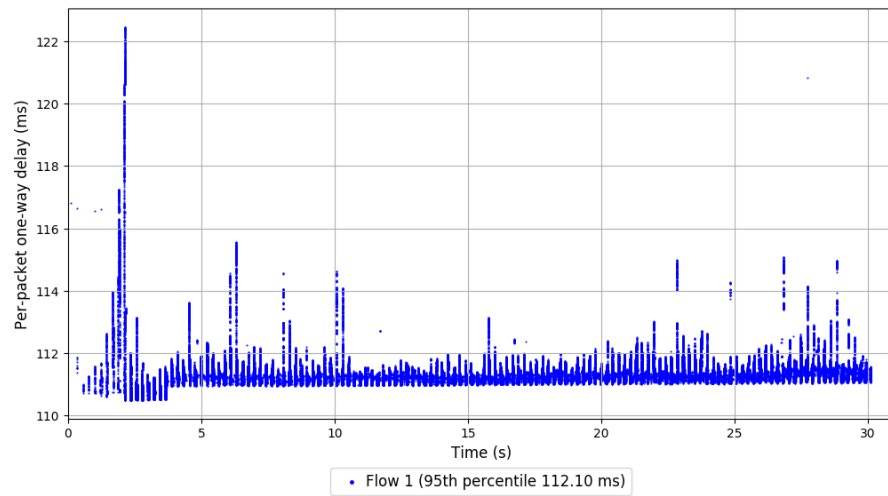
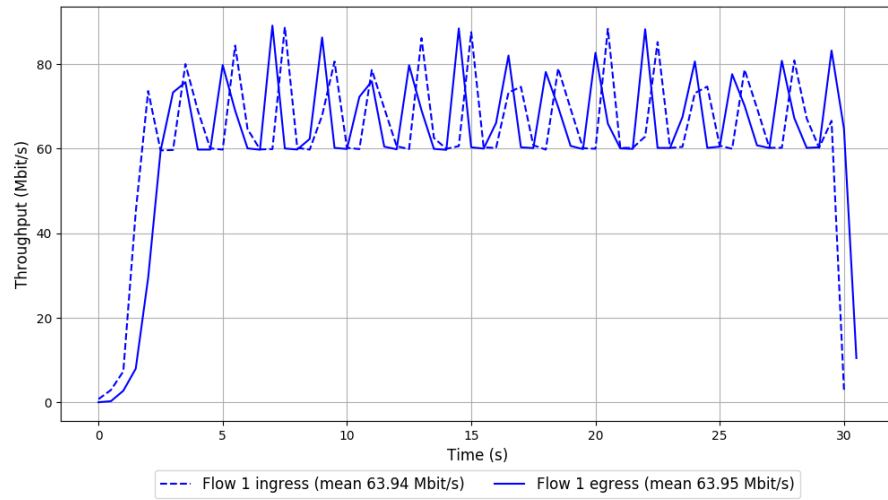
-- Flow 1:

Average throughput: 63.95 Mbit/s

95th percentile per-packet one-way delay: 112.101 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link

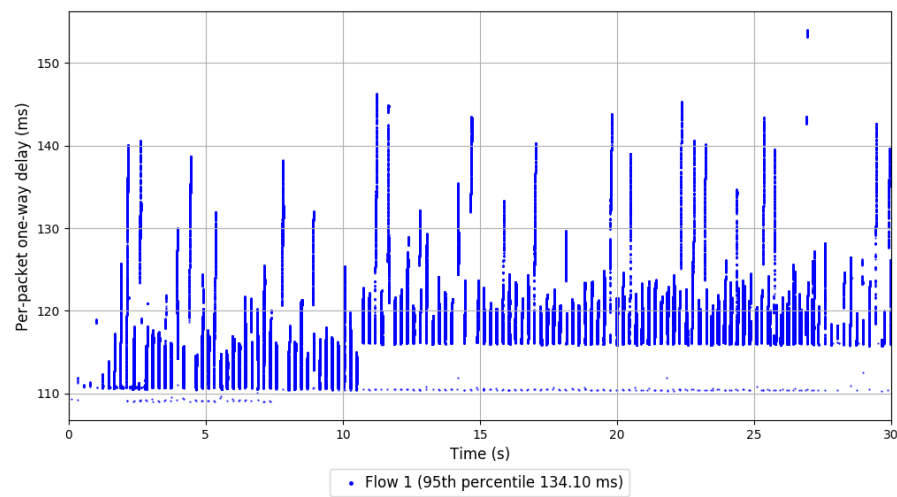
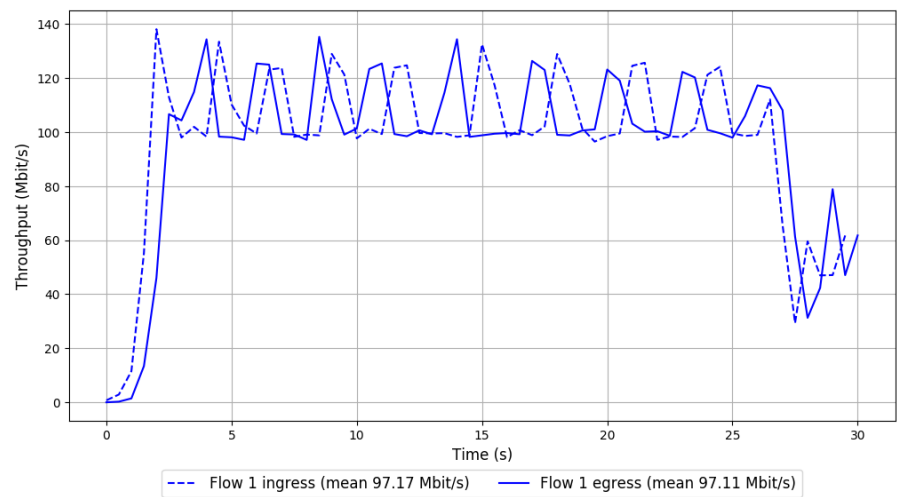


Run 4: Statistics of TCP Vegas

Start at: 2018-05-21 22:52:55
End at: 2018-05-21 22:53:25
Local clock offset: 4.431 ms
Remote clock offset: -0.028 ms

Below is generated by plot.py at 2018-05-22 01:46:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 134.098 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 134.098 ms
Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link

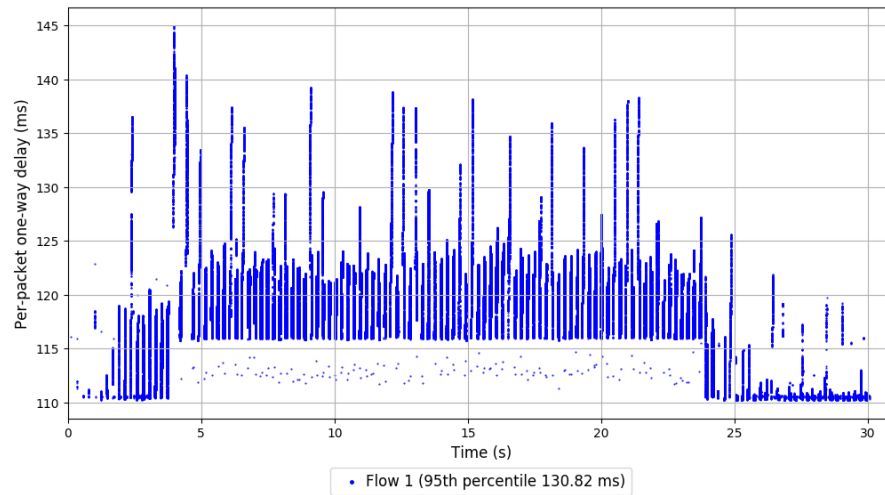
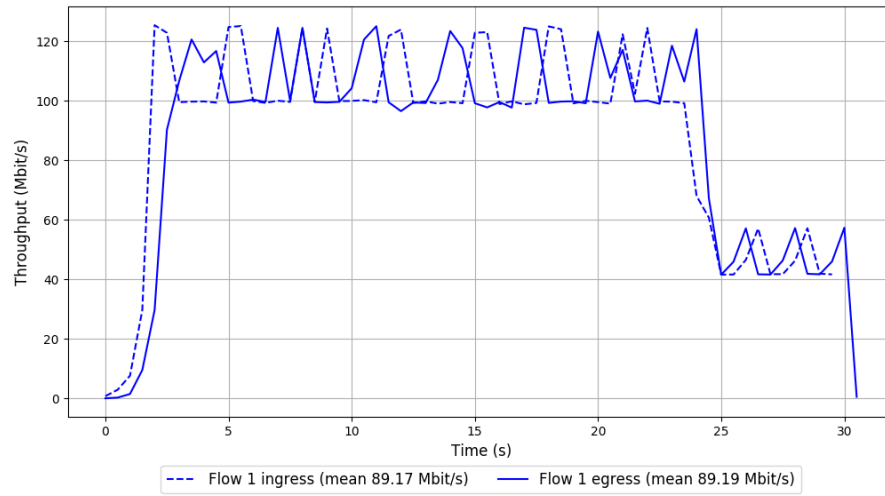


Run 5: Statistics of TCP Vegas

Start at: 2018-05-21 23:13:21
End at: 2018-05-21 23:13:51
Local clock offset: 3.051 ms
Remote clock offset: -0.065 ms

Below is generated by plot.py at 2018-05-22 01:46:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.19 Mbit/s
95th percentile per-packet one-way delay: 130.823 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.19 Mbit/s
95th percentile per-packet one-way delay: 130.823 ms
Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link

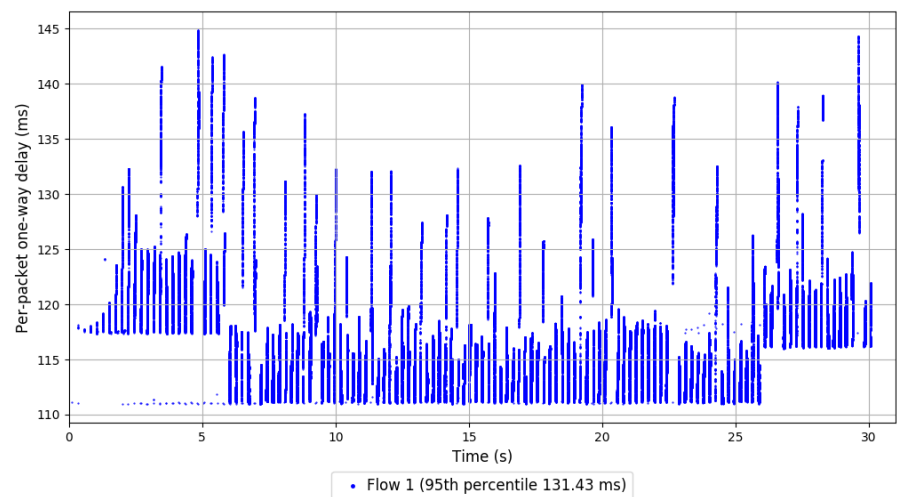
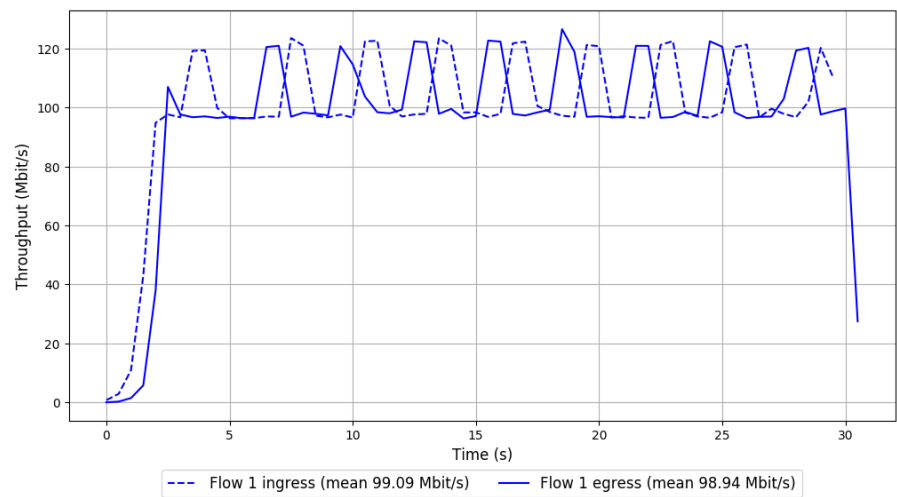


Run 6: Statistics of TCP Vegas

Start at: 2018-05-21 23:33:39
End at: 2018-05-21 23:34:09
Local clock offset: 0.873 ms
Remote clock offset: -0.077 ms

Below is generated by plot.py at 2018-05-22 01:46:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 98.94 Mbit/s
95th percentile per-packet one-way delay: 131.434 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 98.94 Mbit/s
95th percentile per-packet one-way delay: 131.434 ms
Loss rate: 0.15%

Run 6: Report of TCP Vegas — Data Link

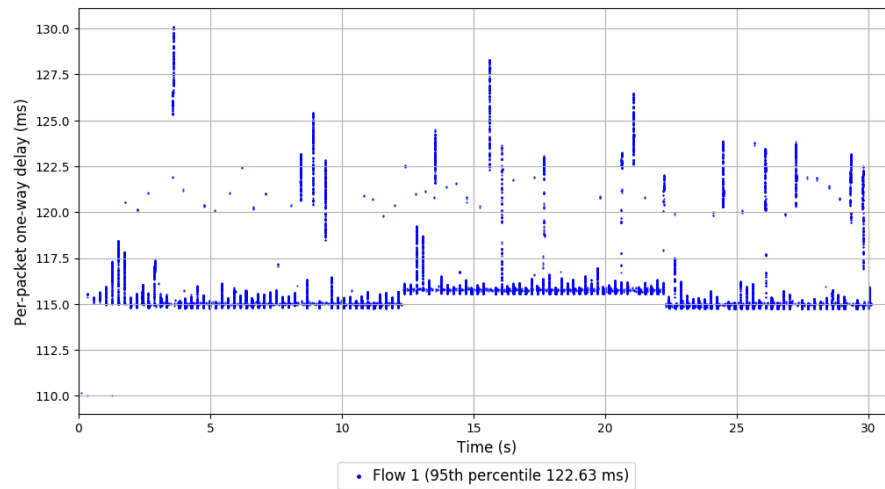
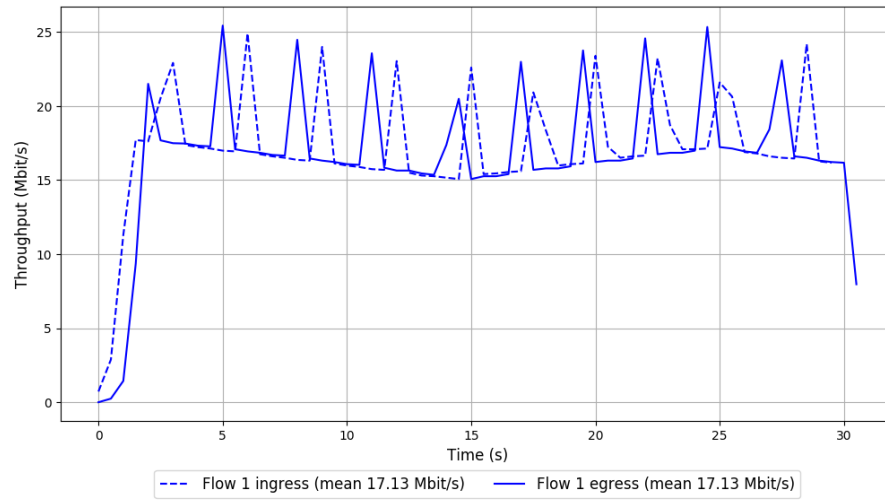


Run 7: Statistics of TCP Vegas

Start at: 2018-05-21 23:54:03
End at: 2018-05-21 23:54:33
Local clock offset: 1.112 ms
Remote clock offset: -0.059 ms

Below is generated by plot.py at 2018-05-22 01:46:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 17.13 Mbit/s
95th percentile per-packet one-way delay: 122.630 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 17.13 Mbit/s
95th percentile per-packet one-way delay: 122.630 ms
Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link

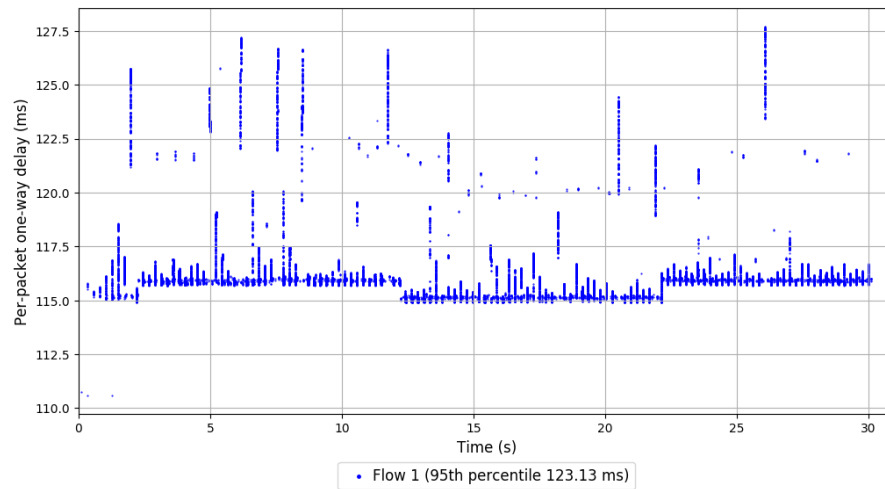
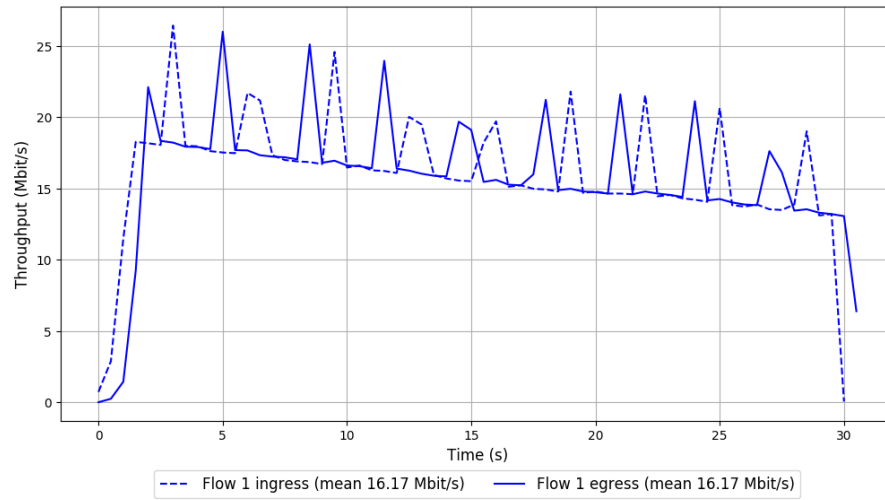


Run 8: Statistics of TCP Vegas

Start at: 2018-05-22 00:14:23
End at: 2018-05-22 00:14:53
Local clock offset: 0.205 ms
Remote clock offset: -0.418 ms

Below is generated by plot.py at 2018-05-22 01:46:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 16.17 Mbit/s
95th percentile per-packet one-way delay: 123.131 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 16.17 Mbit/s
95th percentile per-packet one-way delay: 123.131 ms
Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-05-22 00:34:30

End at: 2018-05-22 00:35:00

Local clock offset: 0.4 ms

Remote clock offset: -0.1 ms

Below is generated by plot.py at 2018-05-22 01:46:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.02 Mbit/s

95th percentile per-packet one-way delay: 121.936 ms

Loss rate: 0.00%

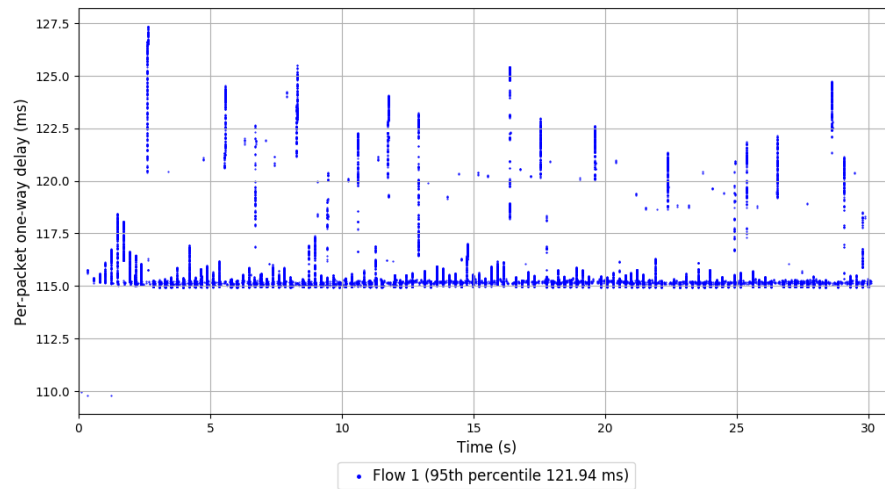
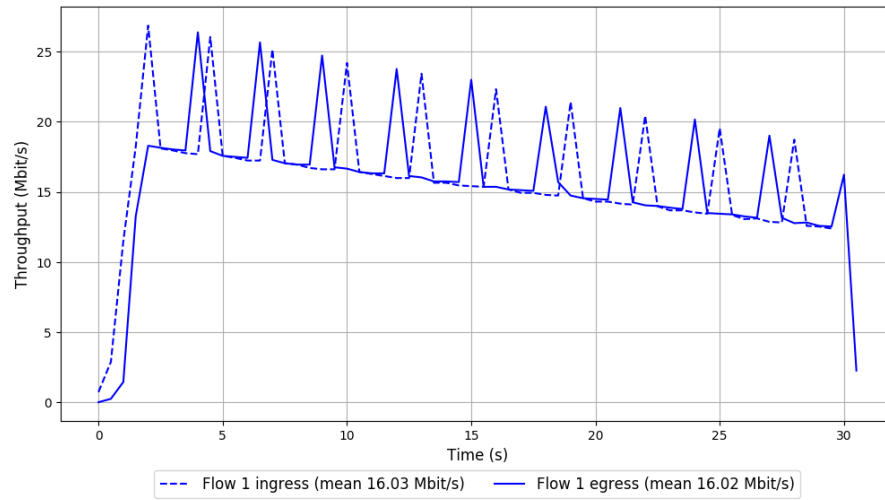
-- Flow 1:

Average throughput: 16.02 Mbit/s

95th percentile per-packet one-way delay: 121.936 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-05-22 00:54:36

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

Local clock offset: 0.444 ms

Remote clock offset: -0.469 ms

Below is generated by plot.py at 2018-05-22 01:46:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.02 Mbit/s

95th percentile per-packet one-way delay: 130.937 ms

Loss rate: 0.00%

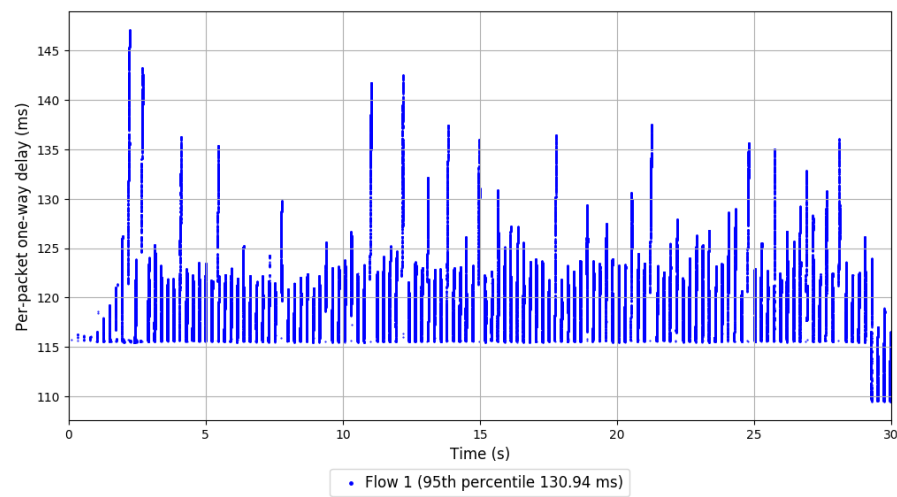
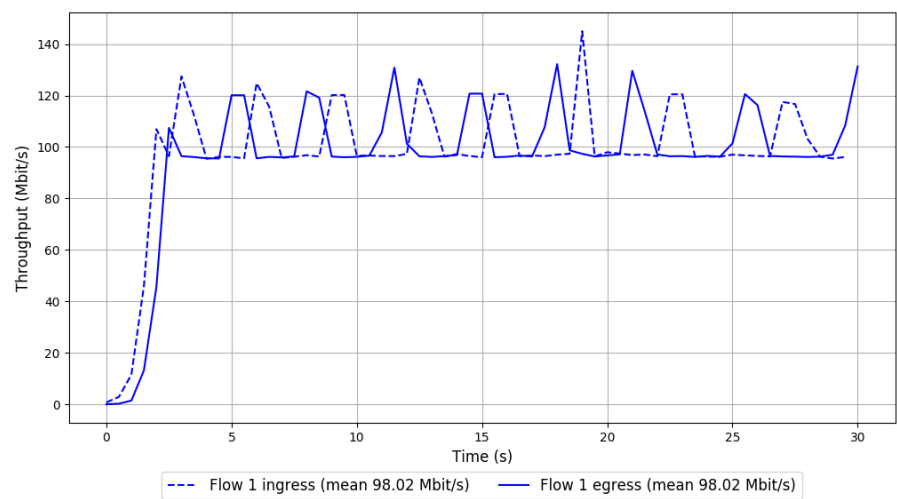
-- Flow 1:

Average throughput: 98.02 Mbit/s

95th percentile per-packet one-way delay: 130.937 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-05-21 21:44:01

End at: 2018-05-21 21:44:31

Local clock offset: 12.422 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2018-05-22 01:47:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.65 Mbit/s

95th percentile per-packet one-way delay: 235.372 ms

Loss rate: 0.09%

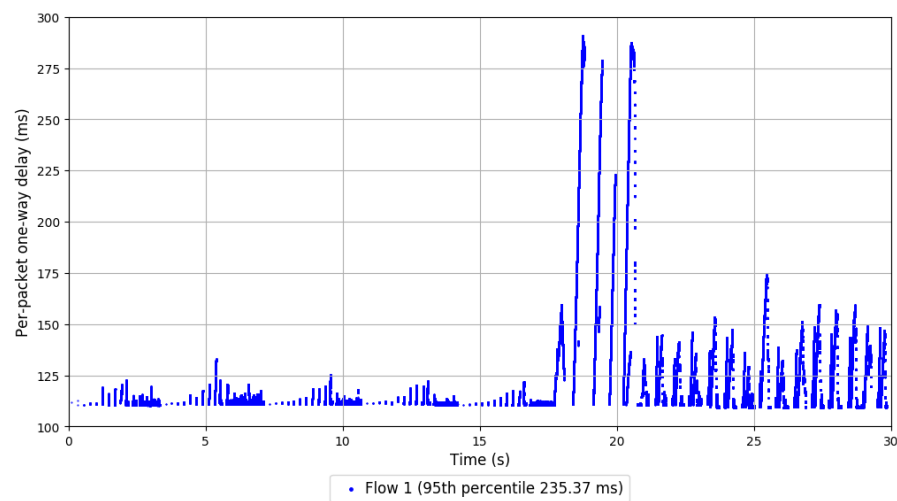
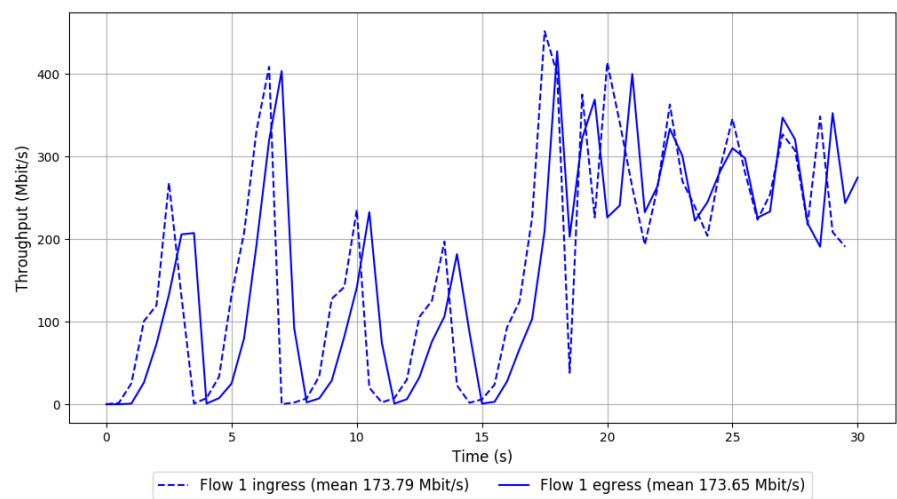
-- Flow 1:

Average throughput: 173.65 Mbit/s

95th percentile per-packet one-way delay: 235.372 ms

Loss rate: 0.09%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-05-21 22:04:35

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

Local clock offset: 23.201 ms

Remote clock offset: 0.107 ms

Below is generated by plot.py at 2018-05-22 01:47:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.59 Mbit/s

95th percentile per-packet one-way delay: 269.507 ms

Loss rate: 1.49%

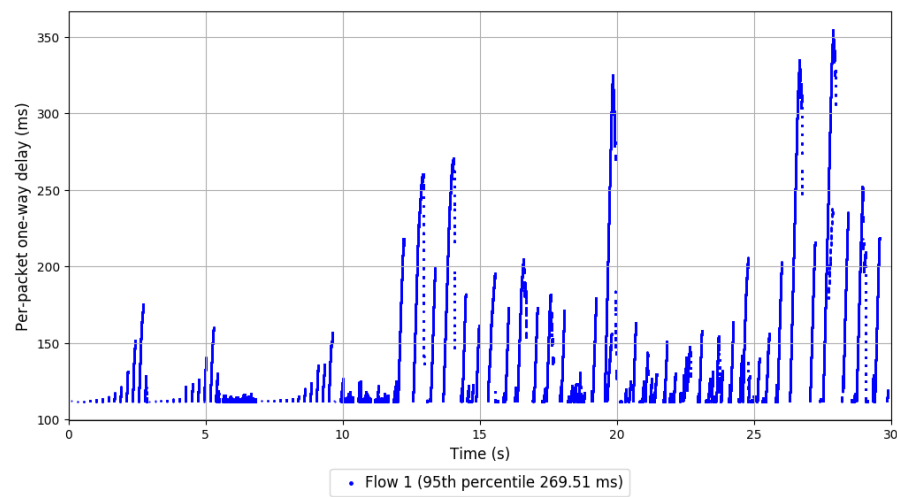
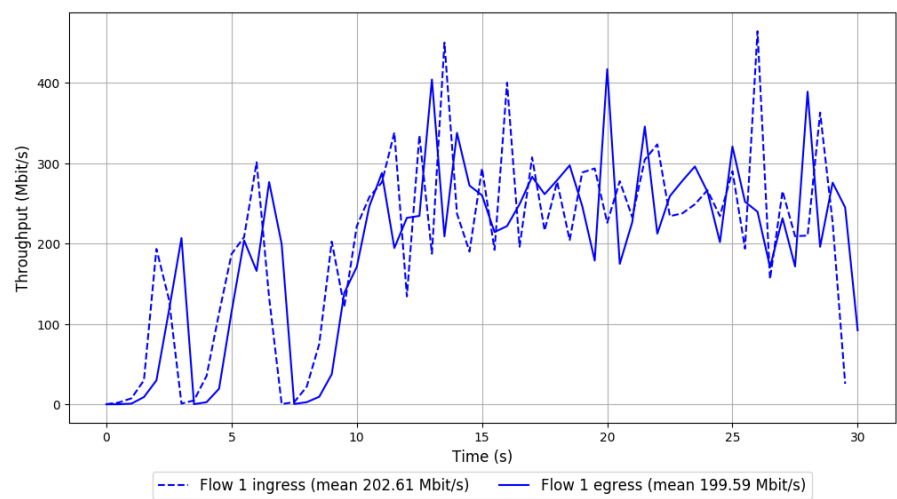
-- Flow 1:

Average throughput: 199.59 Mbit/s

95th percentile per-packet one-way delay: 269.507 ms

Loss rate: 1.49%

Run 2: Report of Verus — Data Link

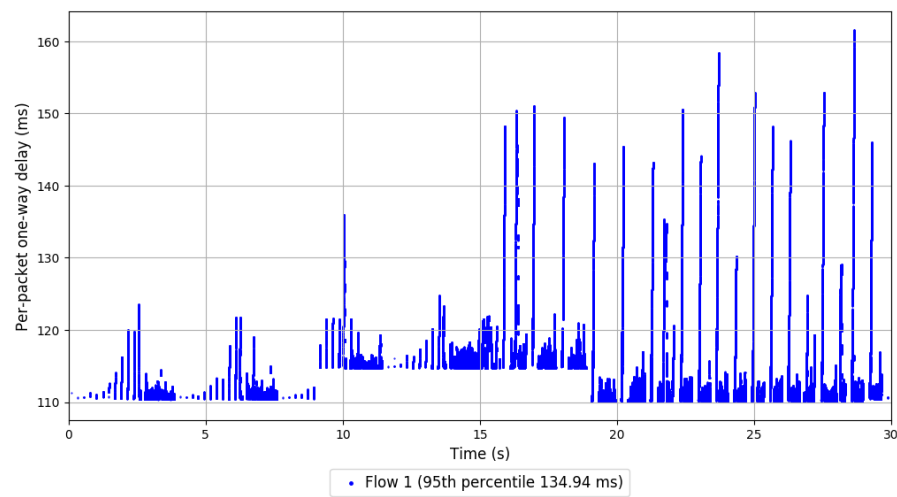
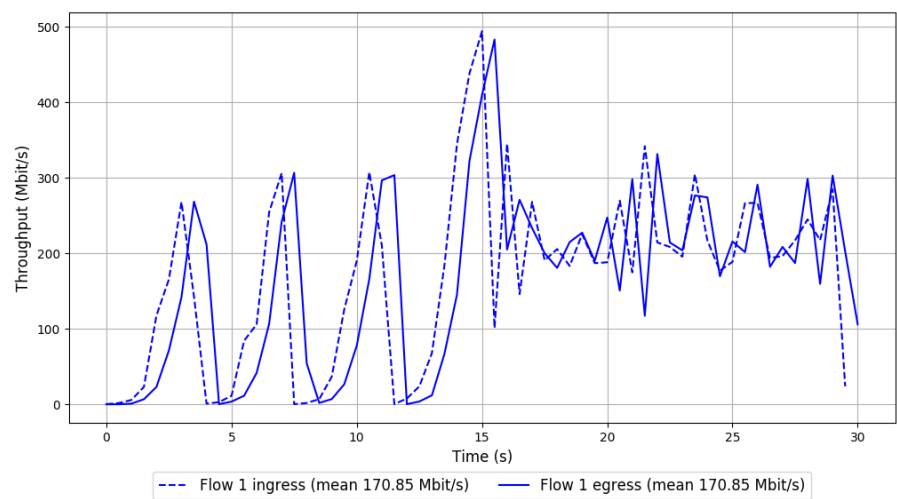


Run 3: Statistics of Verus

Start at: 2018-05-21 22:25:26
End at: 2018-05-21 22:25:56
Local clock offset: 10.116 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-05-22 01:47:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 170.85 Mbit/s
95th percentile per-packet one-way delay: 134.935 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 170.85 Mbit/s
95th percentile per-packet one-way delay: 134.935 ms
Loss rate: 0.00%

Run 3: Report of Verus — Data Link

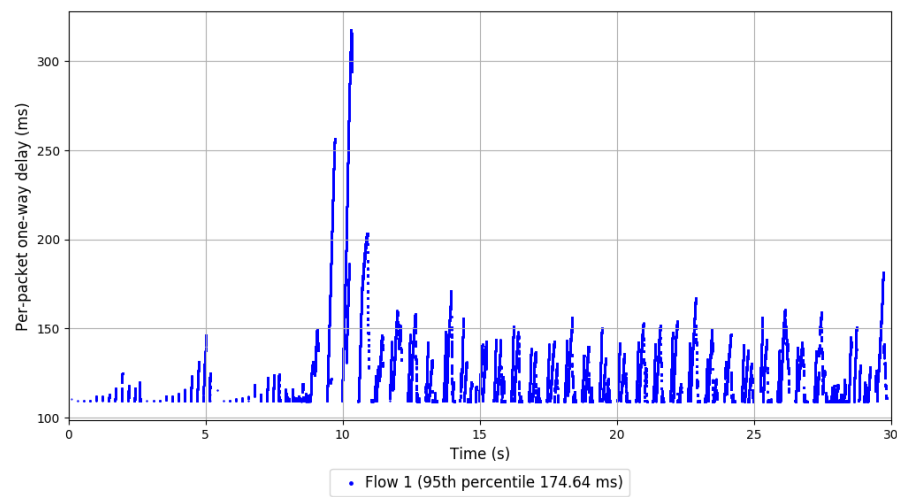
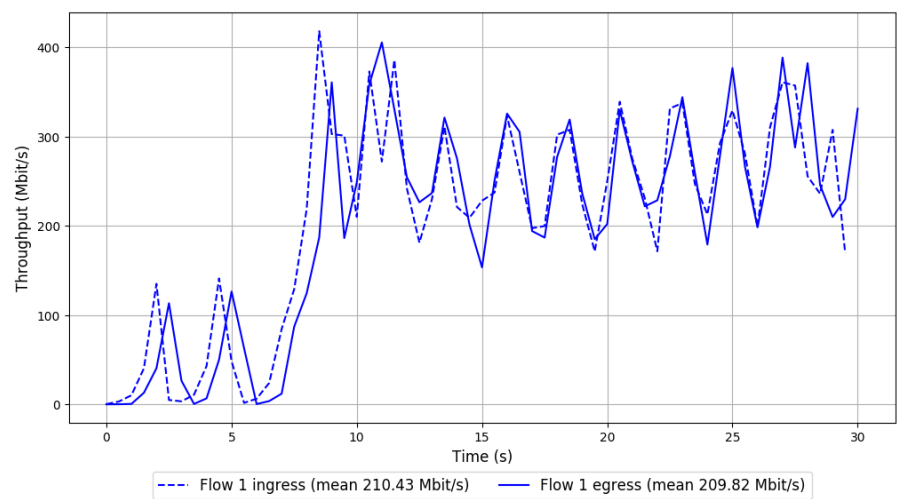


Run 4: Statistics of Verus

Start at: 2018-05-21 22:45:41
End at: 2018-05-21 22:46:11
Local clock offset: 9.451 ms
Remote clock offset: -0.389 ms

Below is generated by plot.py at 2018-05-22 01:48:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 209.82 Mbit/s
95th percentile per-packet one-way delay: 174.643 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 209.82 Mbit/s
95th percentile per-packet one-way delay: 174.643 ms
Loss rate: 0.29%

Run 4: Report of Verus — Data Link

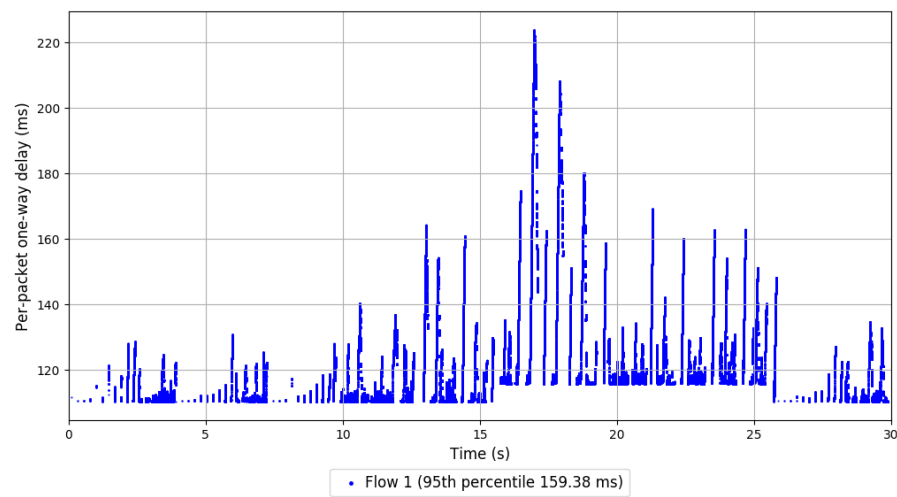
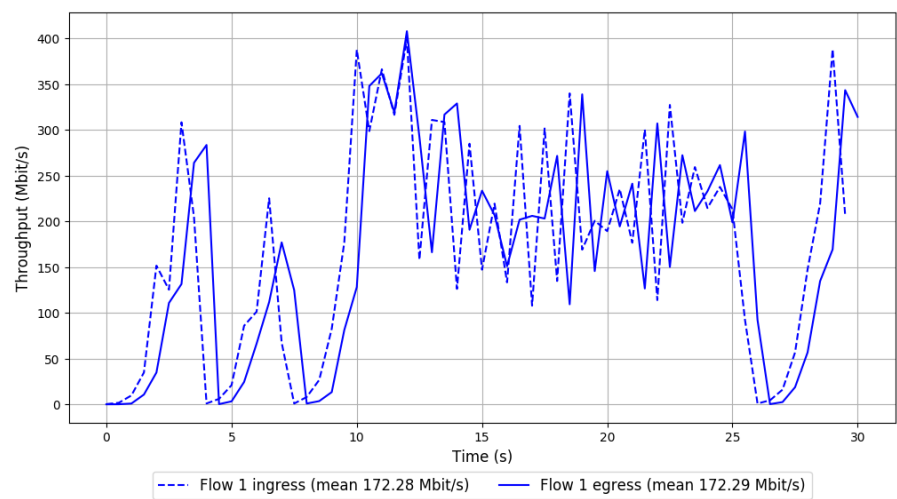


Run 5: Statistics of Verus

Start at: 2018-05-21 23:06:19
End at: 2018-05-21 23:06:49
Local clock offset: 2.713 ms
Remote clock offset: -0.065 ms

Below is generated by plot.py at 2018-05-22 01:48:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 172.29 Mbit/s
95th percentile per-packet one-way delay: 159.379 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 172.29 Mbit/s
95th percentile per-packet one-way delay: 159.379 ms
Loss rate: 0.00%

Run 5: Report of Verus — Data Link

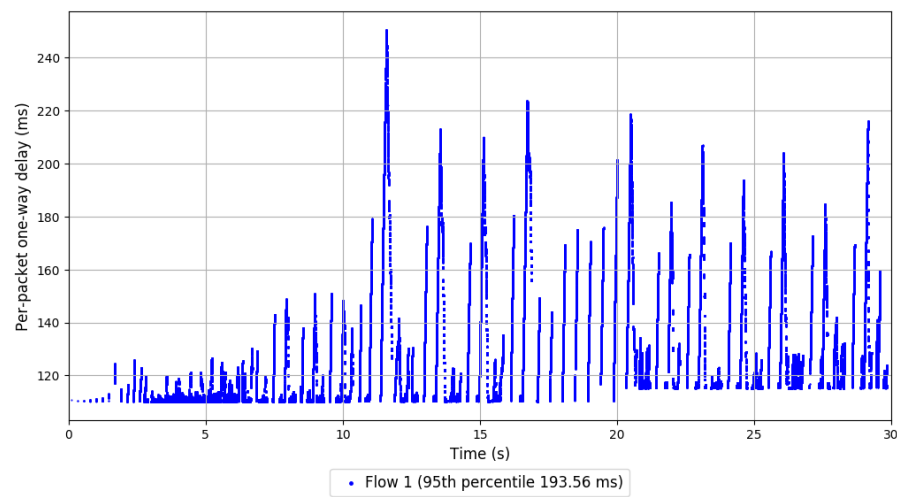
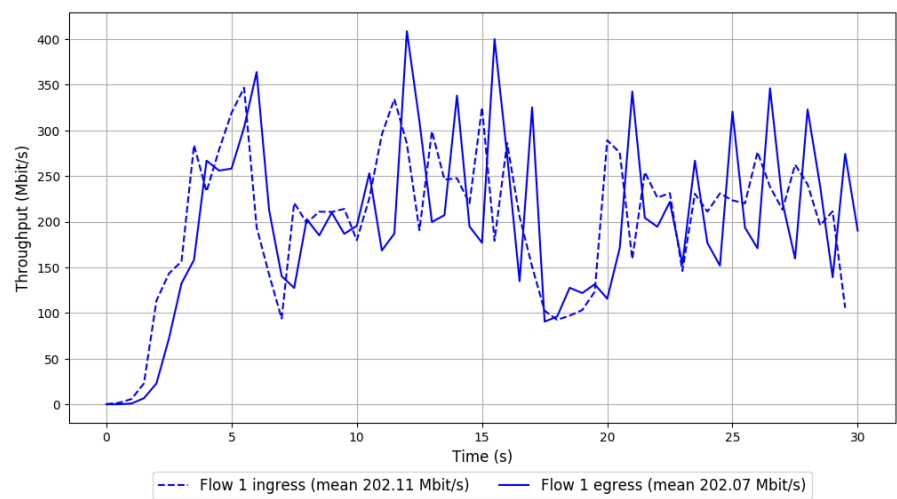


Run 6: Statistics of Verus

Start at: 2018-05-21 23:26:35
End at: 2018-05-21 23:27:05
Local clock offset: 1.44 ms
Remote clock offset: -0.445 ms

Below is generated by plot.py at 2018-05-22 01:48:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 202.07 Mbit/s
95th percentile per-packet one-way delay: 193.556 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 202.07 Mbit/s
95th percentile per-packet one-way delay: 193.556 ms
Loss rate: 0.00%

Run 6: Report of Verus — Data Link

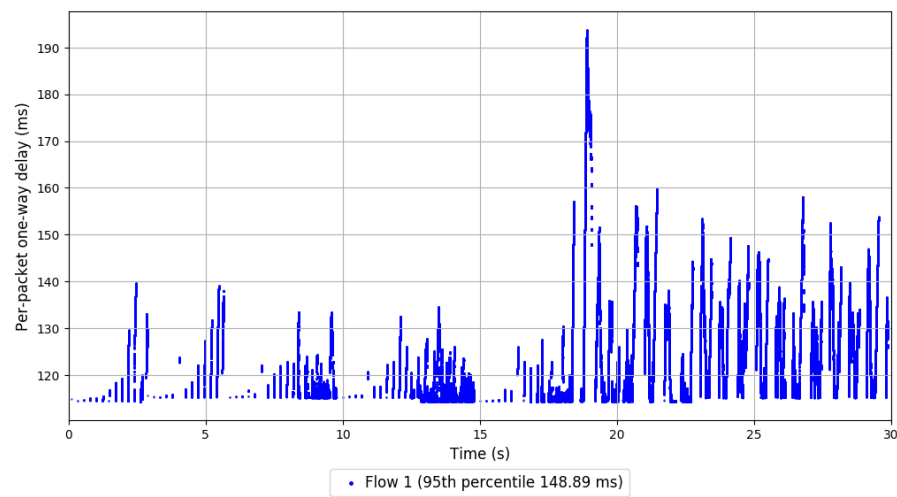
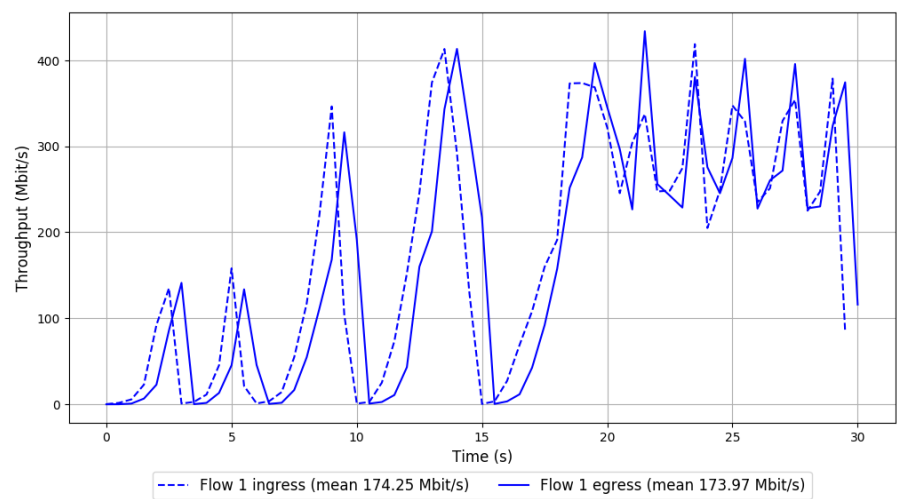


Run 7: Statistics of Verus

Start at: 2018-05-21 23:47:02
End at: 2018-05-21 23:47:32
Local clock offset: 1.534 ms
Remote clock offset: -0.418 ms

Below is generated by plot.py at 2018-05-22 01:48:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 173.97 Mbit/s
95th percentile per-packet one-way delay: 148.889 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 173.97 Mbit/s
95th percentile per-packet one-way delay: 148.889 ms
Loss rate: 0.16%

Run 7: Report of Verus — Data Link

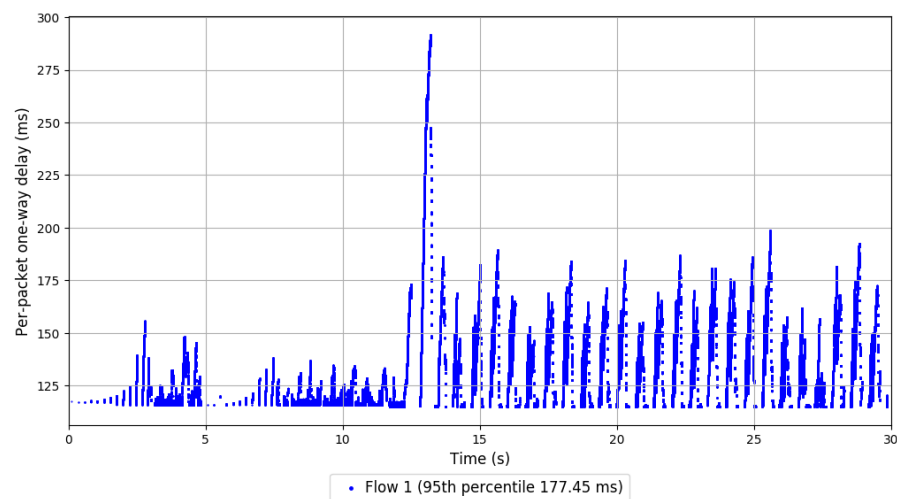
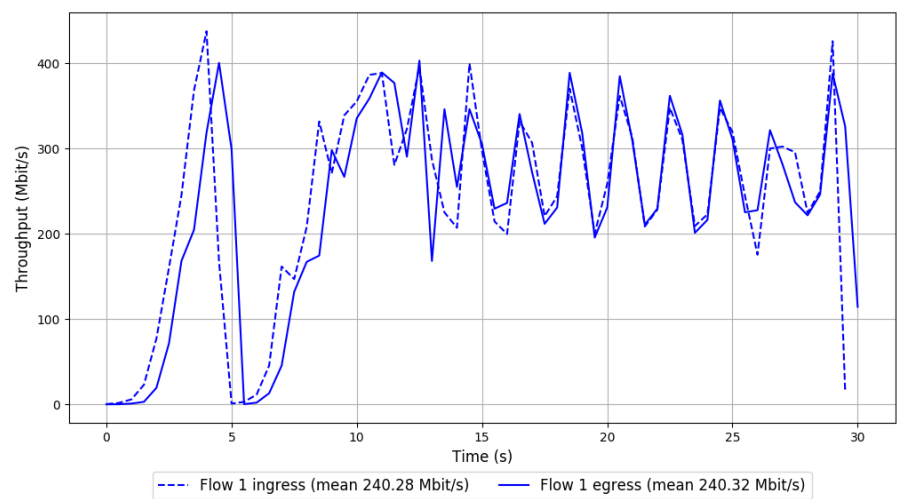


Run 8: Statistics of Verus

Start at: 2018-05-22 00:07:13
End at: 2018-05-22 00:07:43
Local clock offset: 0.516 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2018-05-22 01:50:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 240.32 Mbit/s
95th percentile per-packet one-way delay: 177.448 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 240.32 Mbit/s
95th percentile per-packet one-way delay: 177.448 ms
Loss rate: 0.00%

Run 8: Report of Verus — Data Link

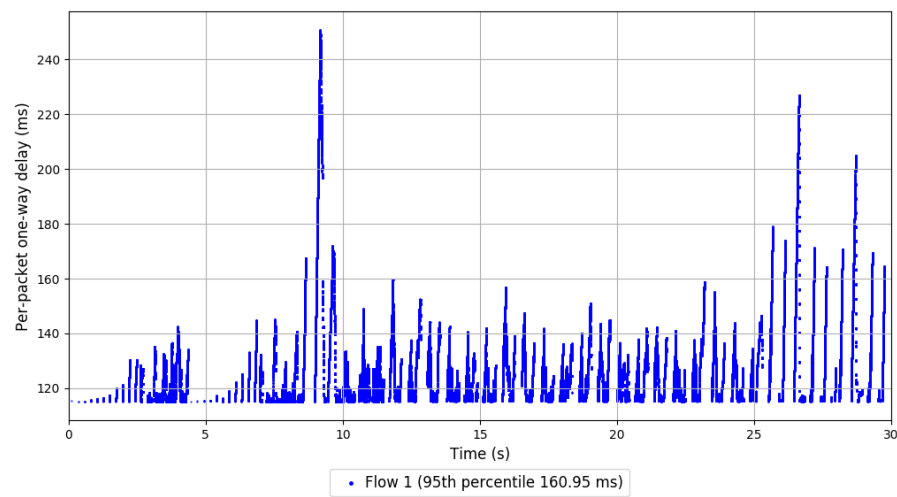
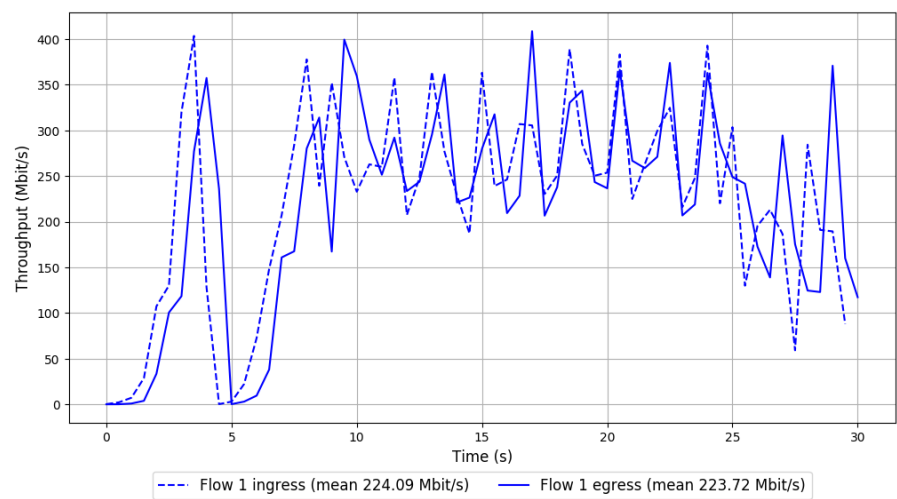


Run 9: Statistics of Verus

Start at: 2018-05-22 00:27:23
End at: 2018-05-22 00:27:53
Local clock offset: 0.332 ms
Remote clock offset: -0.131 ms

Below is generated by plot.py at 2018-05-22 01:50:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 223.72 Mbit/s
95th percentile per-packet one-way delay: 160.951 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 223.72 Mbit/s
95th percentile per-packet one-way delay: 160.951 ms
Loss rate: 0.00%

Run 9: Report of Verus — Data Link

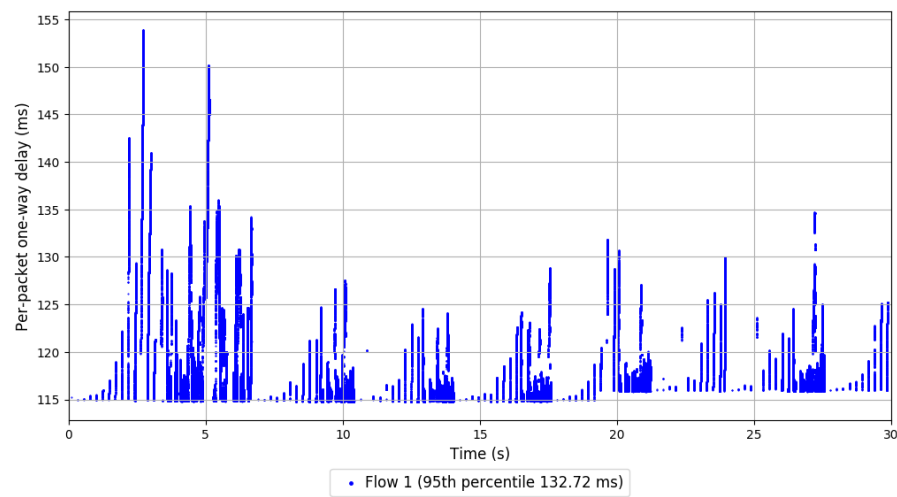
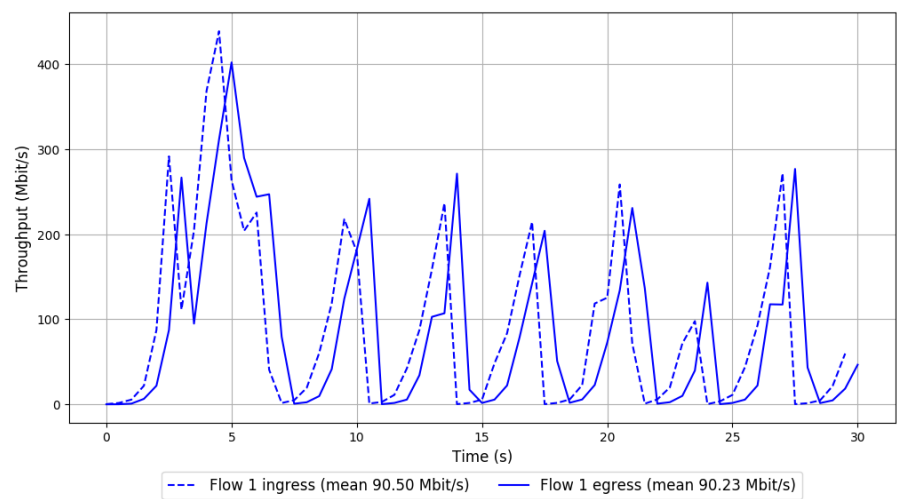


Run 10: Statistics of Verus

Start at: 2018-05-22 00:47:36
End at: 2018-05-22 00:48:06
Local clock offset: 0.023 ms
Remote clock offset: -0.513 ms

Below is generated by plot.py at 2018-05-22 01:50:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.23 Mbit/s
95th percentile per-packet one-way delay: 132.717 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 90.23 Mbit/s
95th percentile per-packet one-way delay: 132.717 ms
Loss rate: 0.30%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-05-21 21:42:35

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

Local clock offset: 12.766 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2018-05-22 01:51:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 252.19 Mbit/s

95th percentile per-packet one-way delay: 116.855 ms

Loss rate: 0.02%

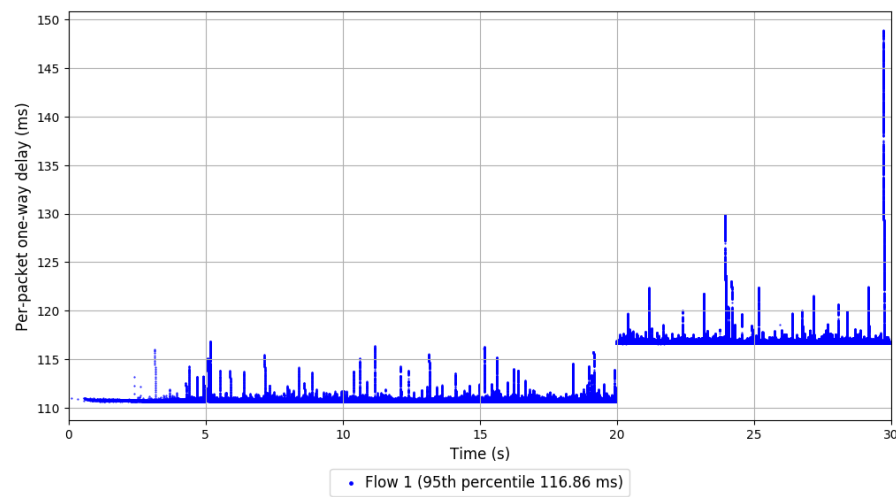
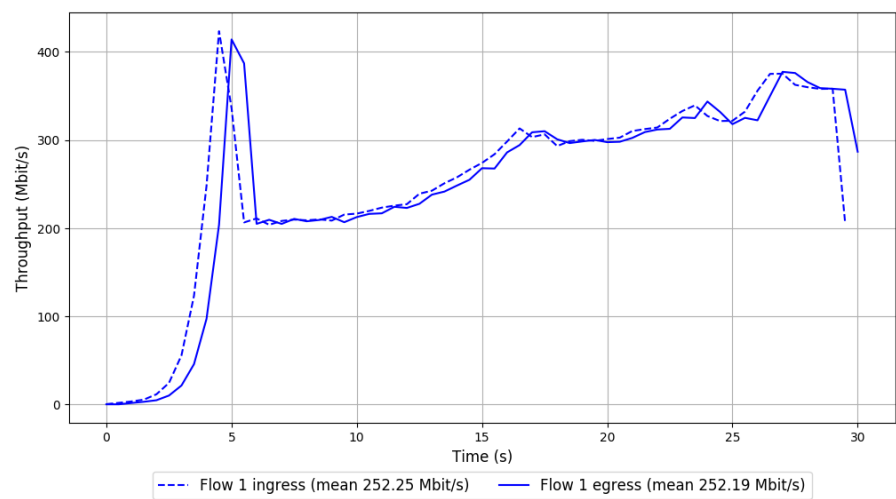
-- Flow 1:

Average throughput: 252.19 Mbit/s

95th percentile per-packet one-way delay: 116.855 ms

Loss rate: 0.02%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-05-21 22:03:00

End at: 2018-05-21 22:03:30

Local clock offset: 22.812 ms

Remote clock offset: 0.483 ms

Below is generated by plot.py at 2018-05-22 01:53:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 374.67 Mbit/s

95th percentile per-packet one-way delay: 112.461 ms

Loss rate: 0.00%

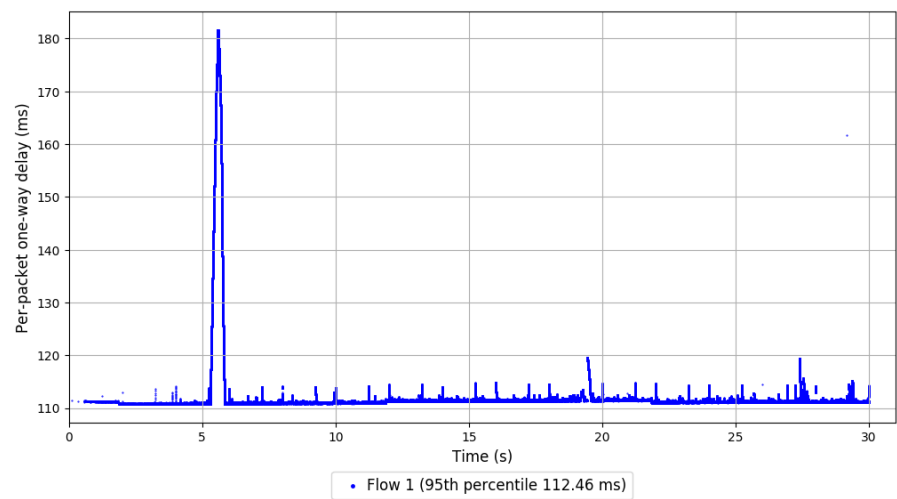
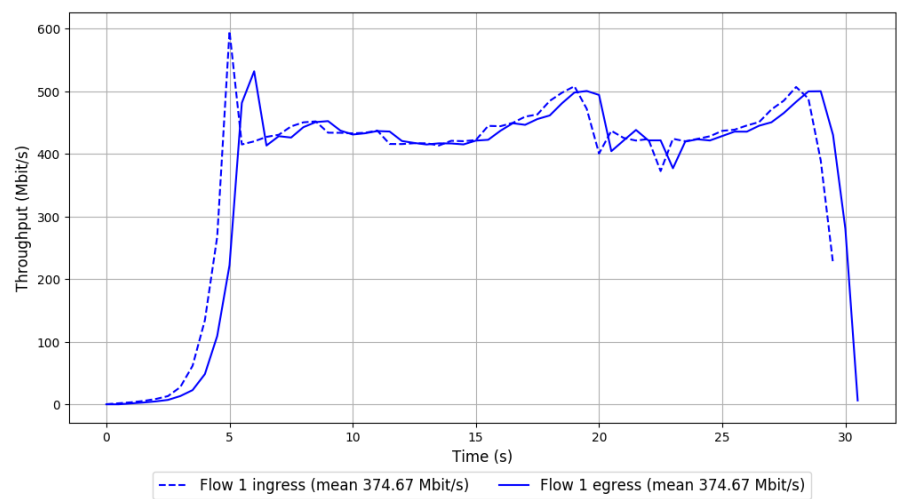
-- Flow 1:

Average throughput: 374.67 Mbit/s

95th percentile per-packet one-way delay: 112.461 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-05-21 22:23:52

End at: 2018-05-21 22:24:22

Local clock offset: 9.843 ms

Remote clock offset: -0.021 ms

Below is generated by plot.py at 2018-05-22 01:53:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 356.94 Mbit/s

95th percentile per-packet one-way delay: 202.087 ms

Loss rate: 0.07%

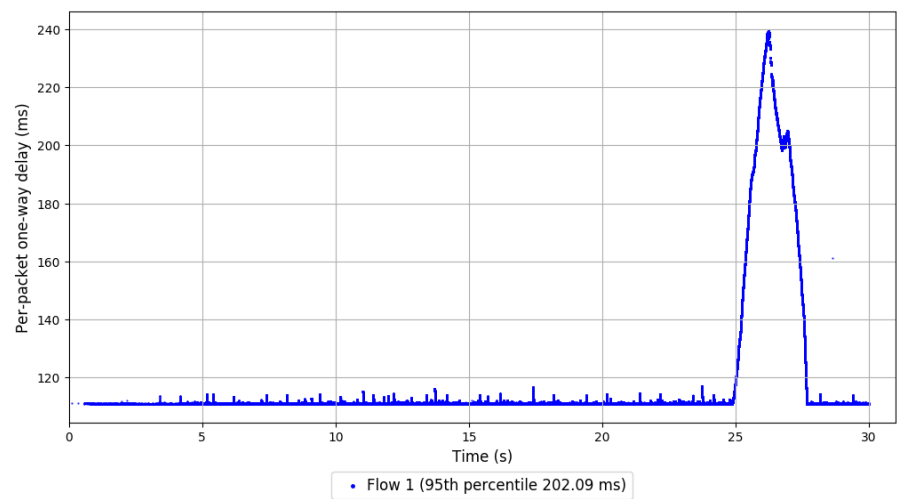
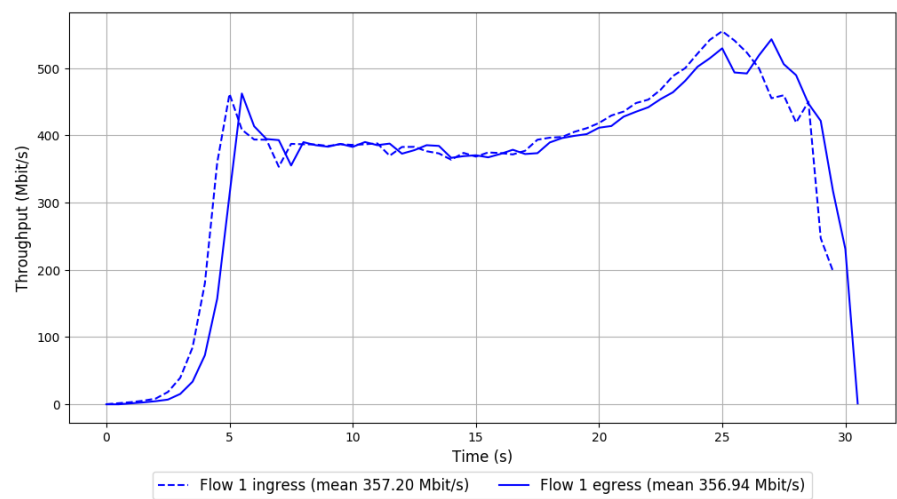
-- Flow 1:

Average throughput: 356.94 Mbit/s

95th percentile per-packet one-way delay: 202.087 ms

Loss rate: 0.07%

Run 3: Report of PCC-Vivace — Data Link

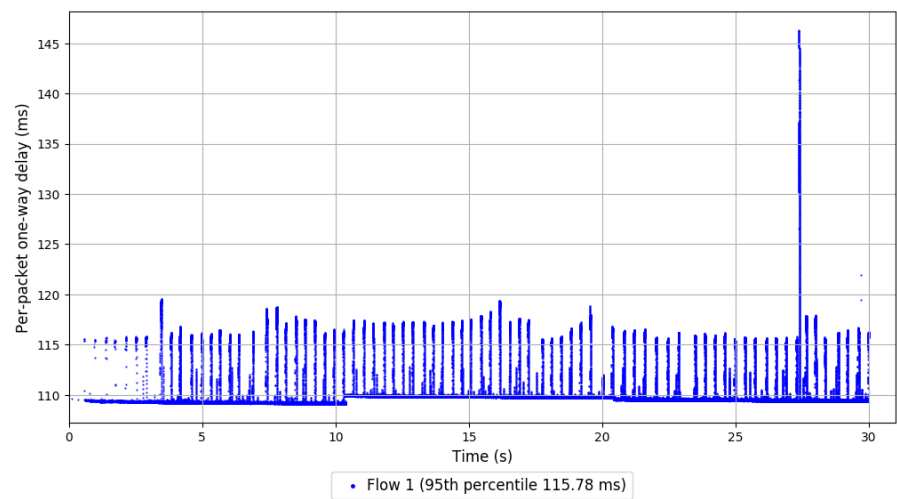
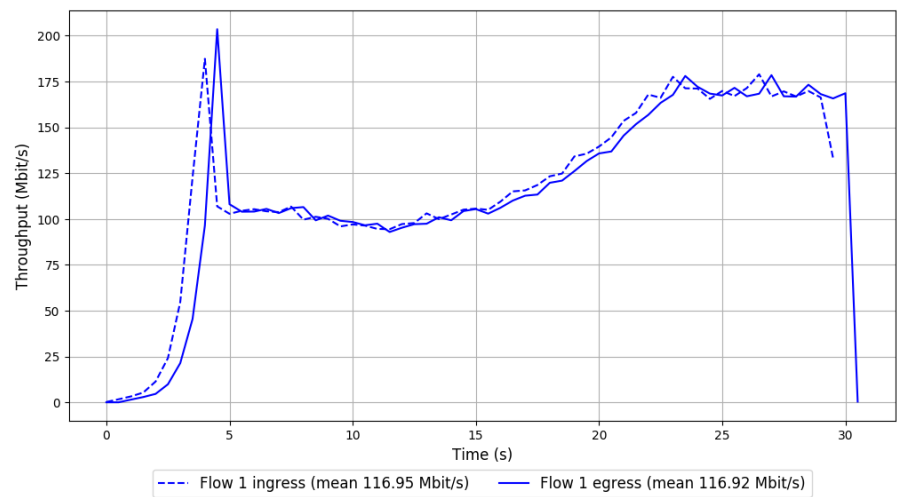


Run 4: Statistics of PCC-Vivace

Start at: 2018-05-21 22:44:25
End at: 2018-05-21 22:44:55
Local clock offset: 10.513 ms
Remote clock offset: -0.016 ms

Below is generated by plot.py at 2018-05-22 01:53:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 116.92 Mbit/s
95th percentile per-packet one-way delay: 115.783 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 116.92 Mbit/s
95th percentile per-packet one-way delay: 115.783 ms
Loss rate: 0.02%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-05-21 23:04:46

End at: 2018-05-21 23:05:16

Local clock offset: 2.98 ms

Remote clock offset: -0.067 ms

Below is generated by plot.py at 2018-05-22 01:53:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 352.27 Mbit/s

95th percentile per-packet one-way delay: 110.868 ms

Loss rate: 0.00%

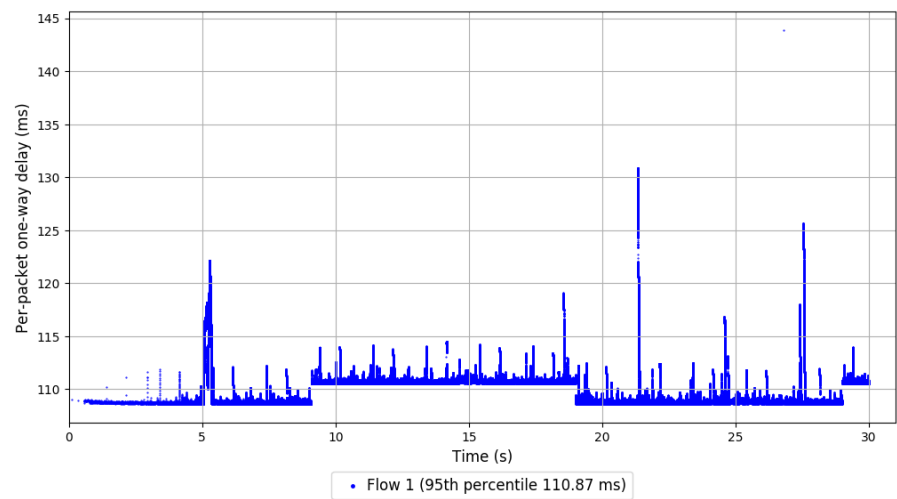
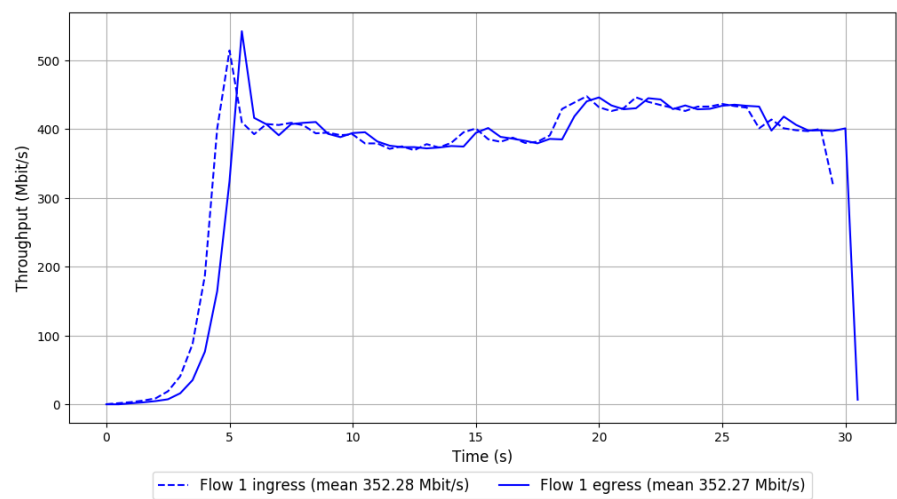
-- Flow 1:

Average throughput: 352.27 Mbit/s

95th percentile per-packet one-way delay: 110.868 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link

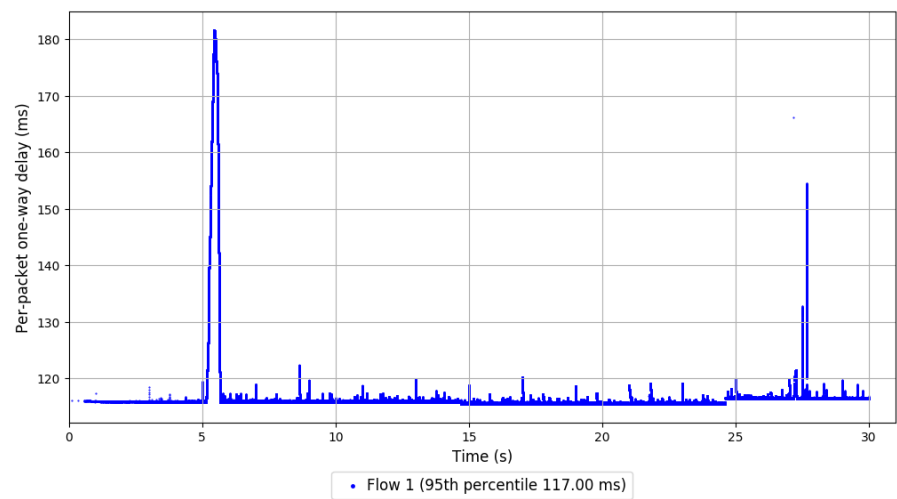
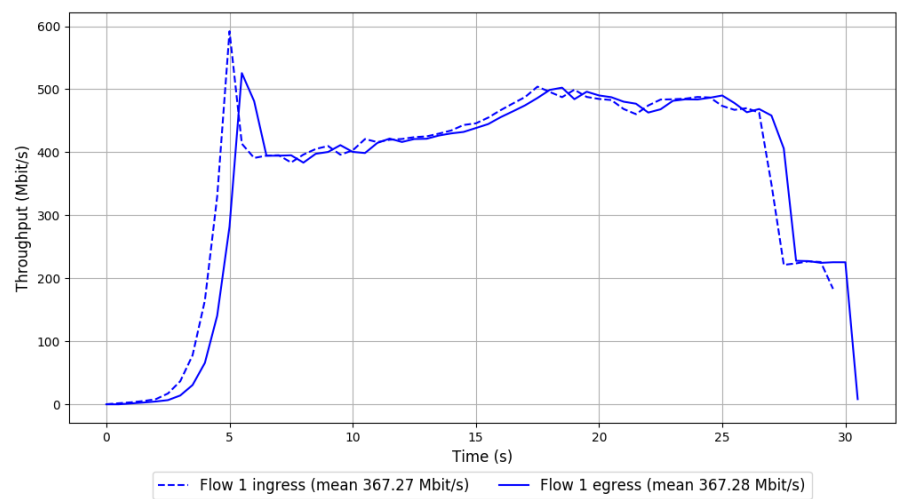


Run 6: Statistics of PCC-Vivace

Start at: 2018-05-21 23:25:00
End at: 2018-05-21 23:25:30
Local clock offset: 1.477 ms
Remote clock offset: -0.077 ms

Below is generated by plot.py at 2018-05-22 01:54:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 367.28 Mbit/s
95th percentile per-packet one-way delay: 116.997 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 367.28 Mbit/s
95th percentile per-packet one-way delay: 116.997 ms
Loss rate: 0.01%

Run 6: Report of PCC-Vivace — Data Link

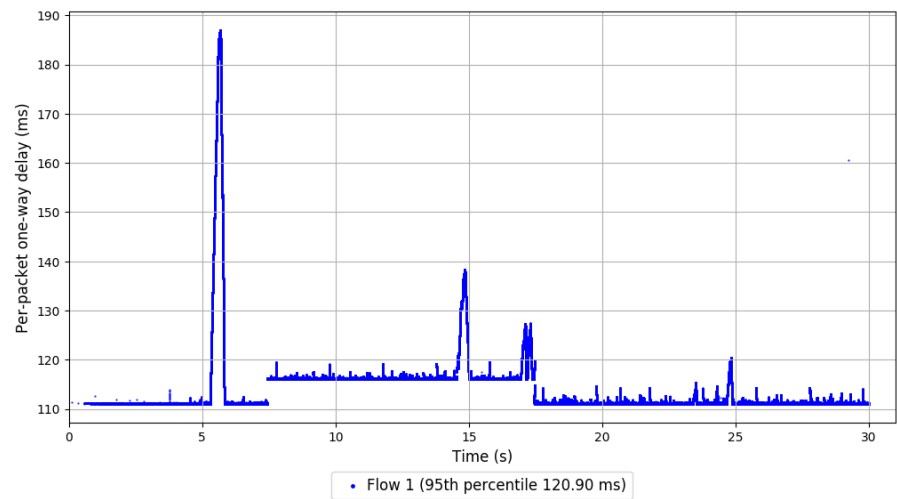
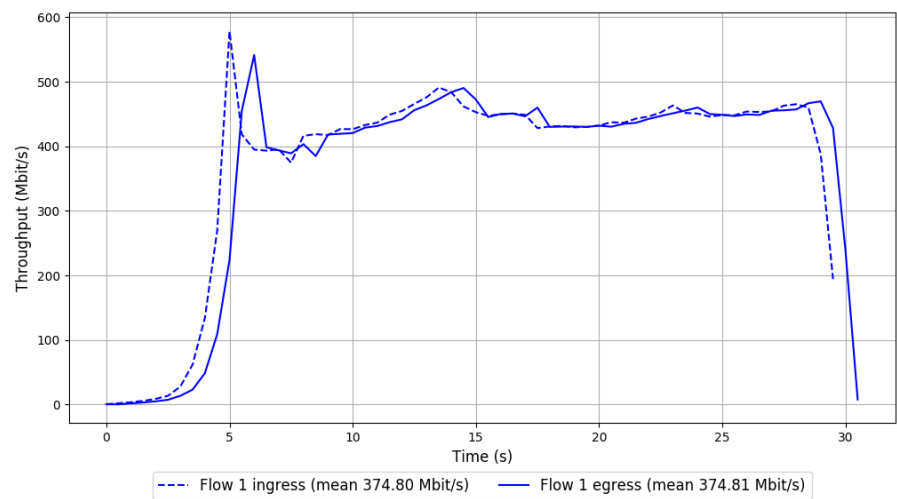


Run 7: Statistics of PCC-Vivace

Start at: 2018-05-21 23:45:28
End at: 2018-05-21 23:45:58
Local clock offset: 1.05 ms
Remote clock offset: -0.086 ms

Below is generated by plot.py at 2018-05-22 01:55:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 374.81 Mbit/s
95th percentile per-packet one-way delay: 120.898 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 374.81 Mbit/s
95th percentile per-packet one-way delay: 120.898 ms
Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link

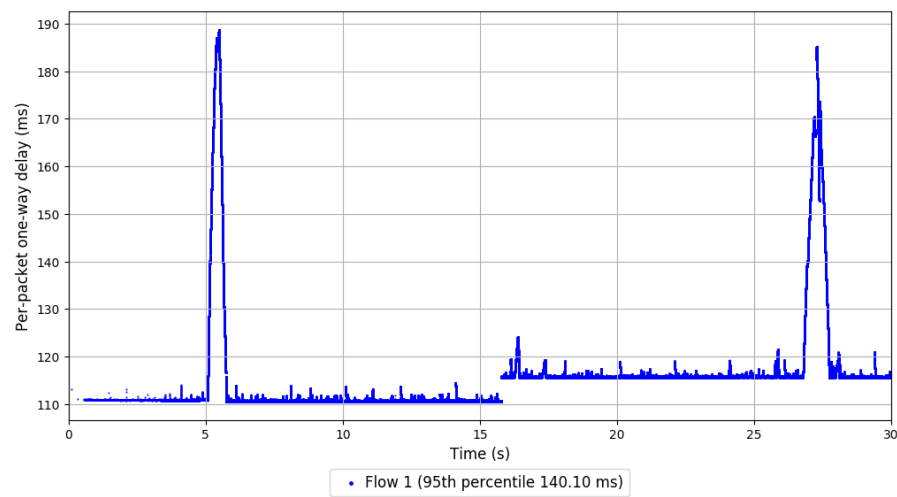
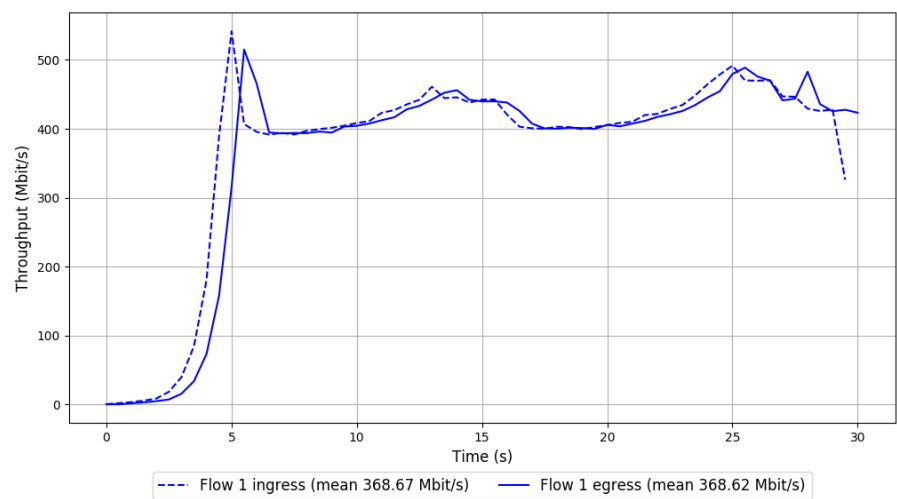


Run 8: Statistics of PCC-Vivace

Start at: 2018-05-22 00:05:39
End at: 2018-05-22 00:06:09
Local clock offset: 0.451 ms
Remote clock offset: -0.057 ms

Below is generated by plot.py at 2018-05-22 01:55:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 368.62 Mbit/s
95th percentile per-packet one-way delay: 140.097 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 368.62 Mbit/s
95th percentile per-packet one-way delay: 140.097 ms
Loss rate: 0.01%

Run 8: Report of PCC-Vivace — Data Link

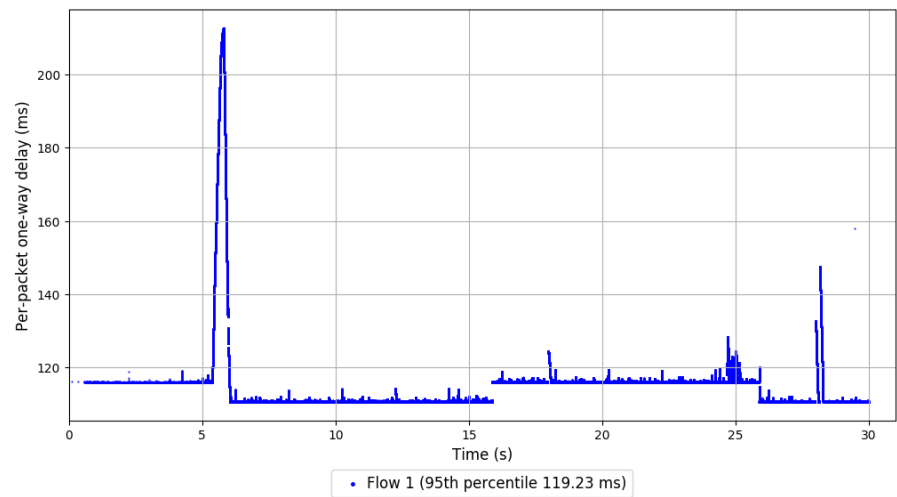
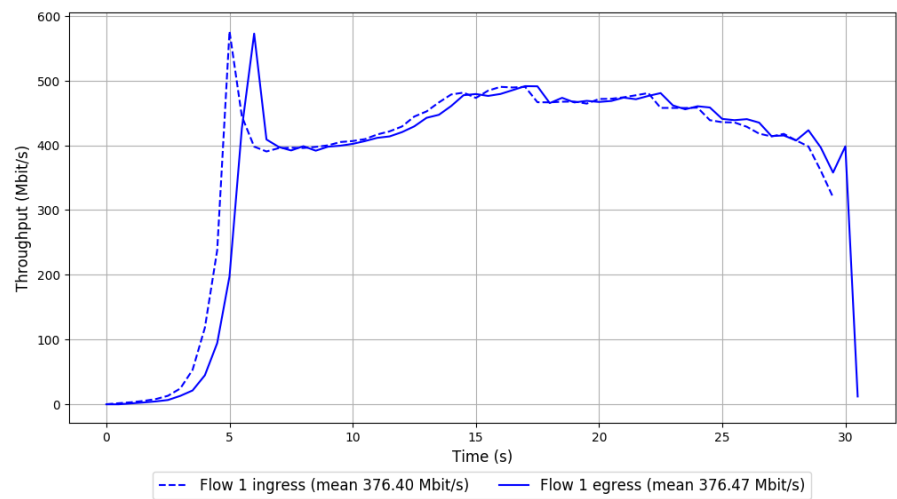


Run 9: Statistics of PCC-Vivace

Start at: 2018-05-22 00:25:49
End at: 2018-05-22 00:26:19
Local clock offset: 0.559 ms
Remote clock offset: -0.103 ms

Below is generated by plot.py at 2018-05-22 01:55:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 376.47 Mbit/s
95th percentile per-packet one-way delay: 119.227 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 376.47 Mbit/s
95th percentile per-packet one-way delay: 119.227 ms
Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link

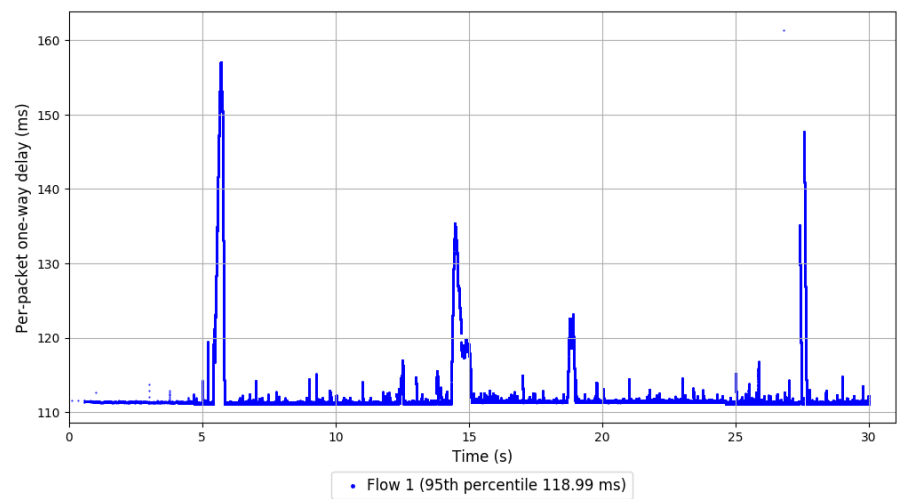
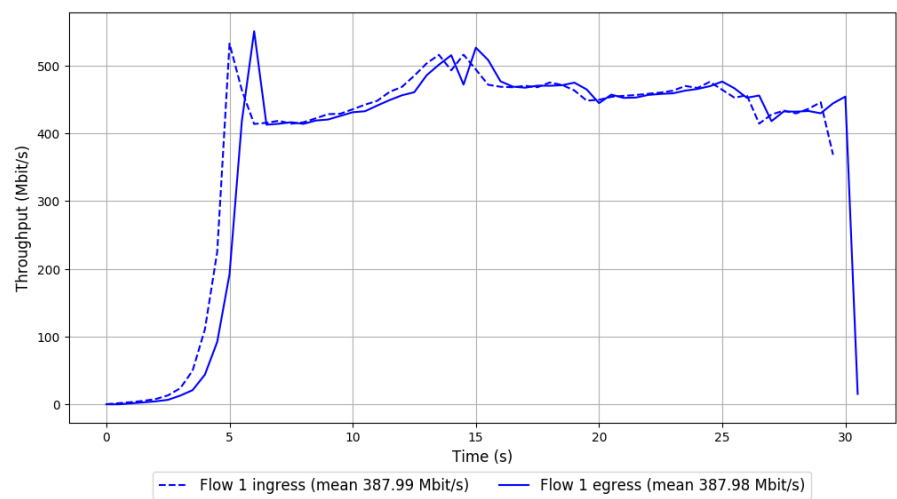


Run 10: Statistics of PCC-Vivace

Start at: 2018-05-22 00:46:00
End at: 2018-05-22 00:46:30
Local clock offset: -0.02 ms
Remote clock offset: -0.175 ms

Below is generated by plot.py at 2018-05-22 01:55:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 387.98 Mbit/s
95th percentile per-packet one-way delay: 118.991 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 387.98 Mbit/s
95th percentile per-packet one-way delay: 118.991 ms
Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link

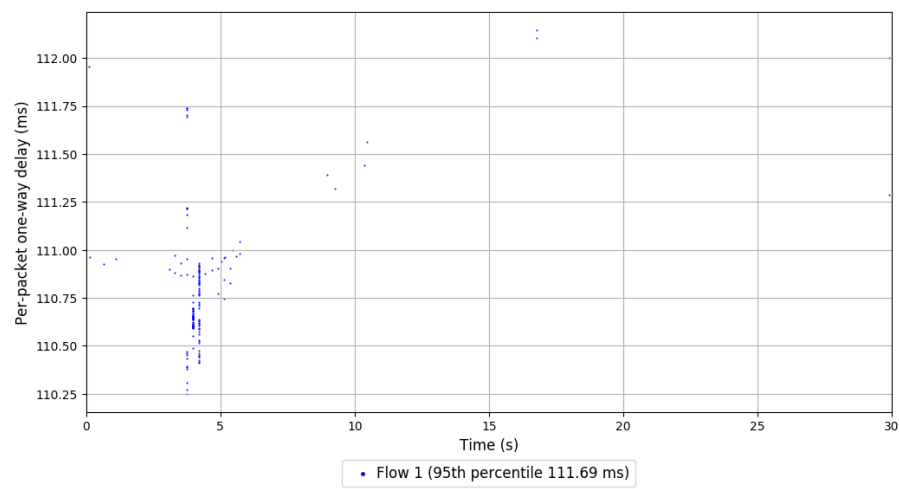
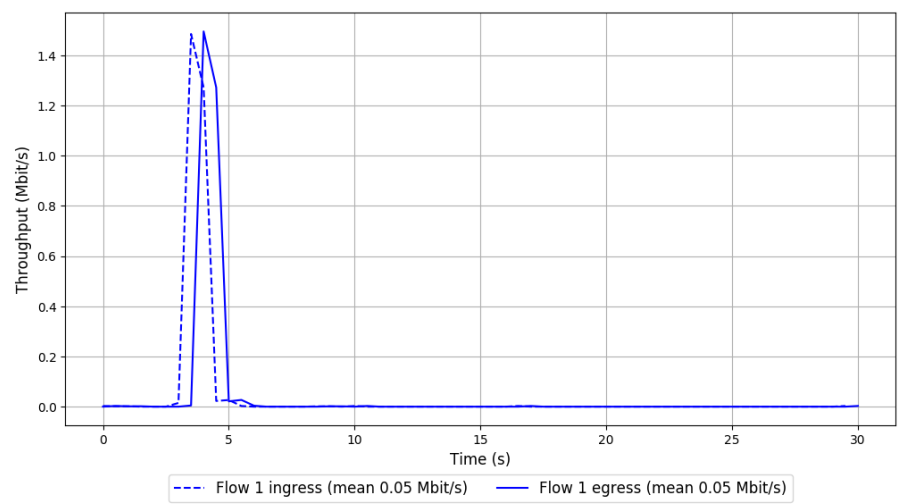


```
Run 1: Statistics of WebRTC media

Start at: 2018-05-21 21:47:37
End at: 2018-05-21 21:48:07
Local clock offset: 13.573 ms
Remote clock offset: 0.107 ms

# Below is generated by plot.py at 2018-05-22 01:55:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 111.693 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 111.693 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-05-21 22:08:13

End at: 2018-05-21 22:08:43

Local clock offset: 25.751 ms

Remote clock offset: 0.041 ms

Below is generated by plot.py at 2018-05-22 01:55:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 116.210 ms

Loss rate: 0.00%

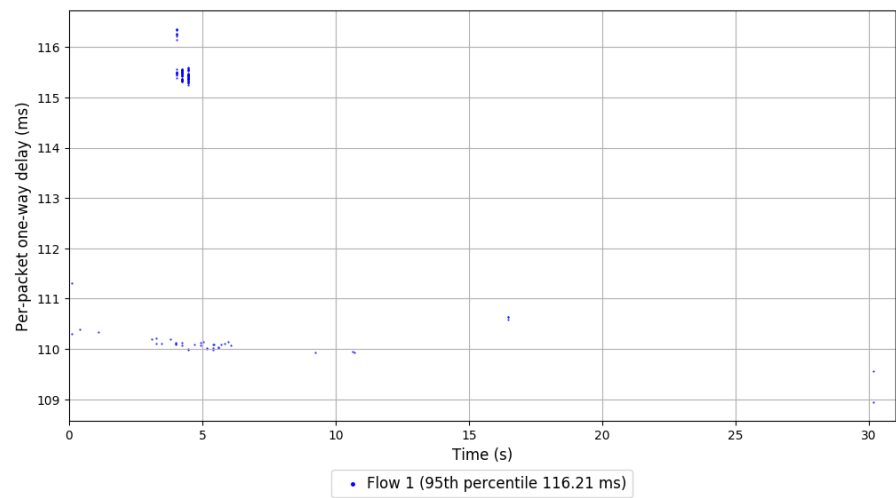
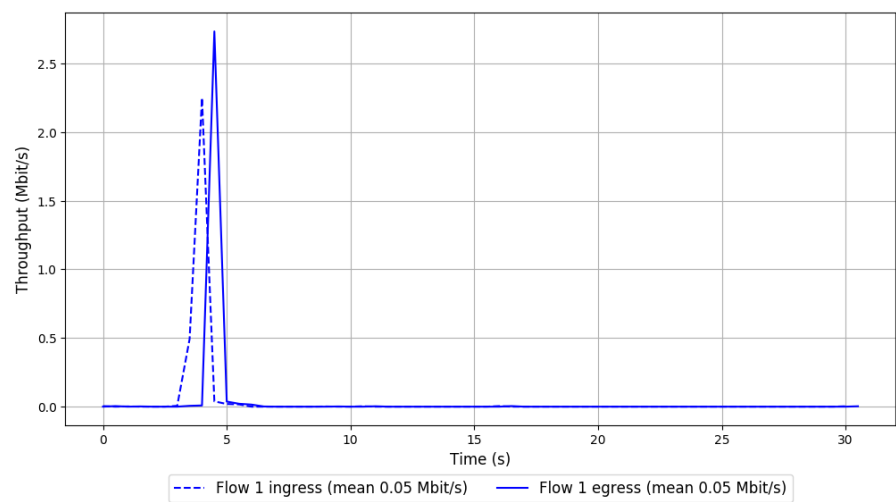
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 116.210 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-05-21 22:29:02

End at: 2018-05-21 22:29:32

Local clock offset: 9.909 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2018-05-22 01:55:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 111.556 ms

Loss rate: 0.00%

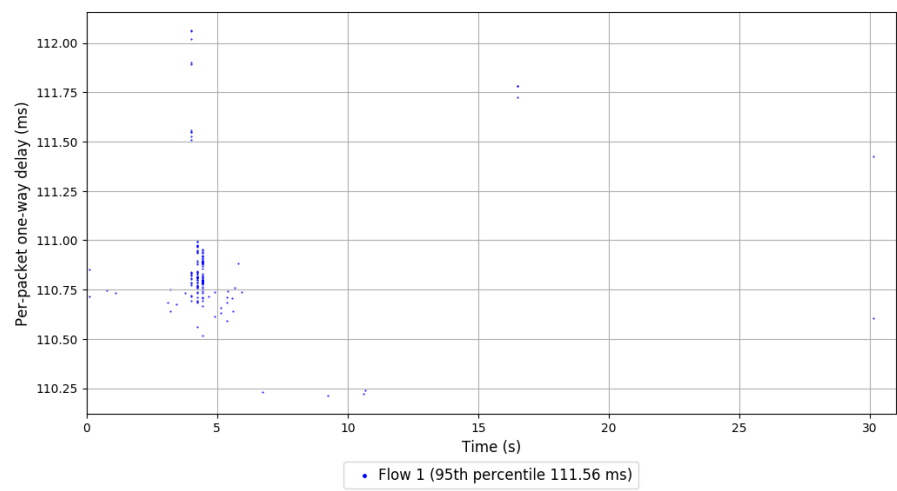
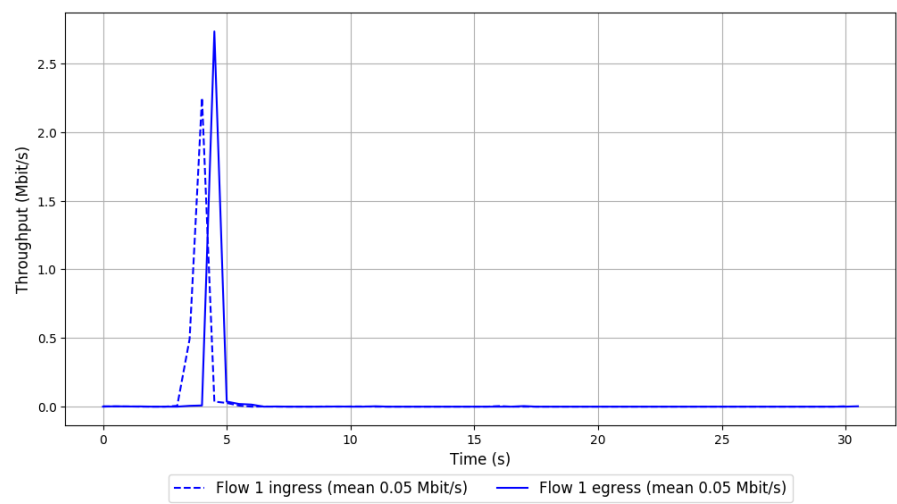
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 111.556 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

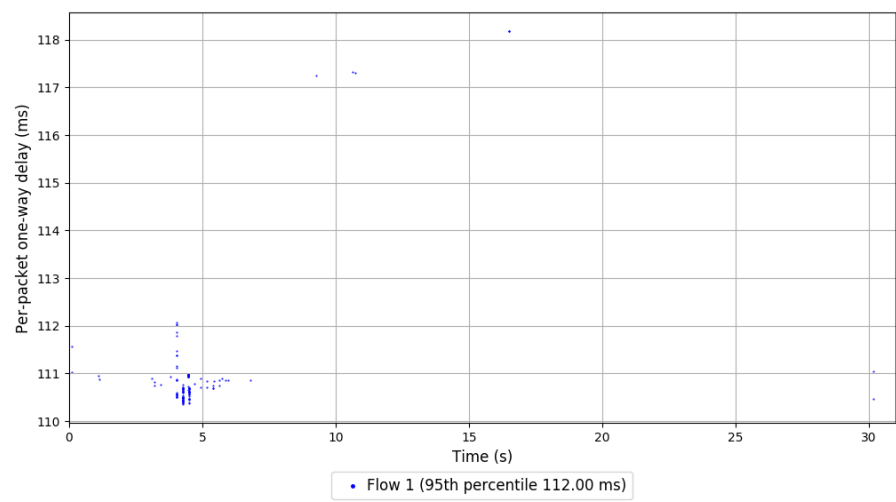
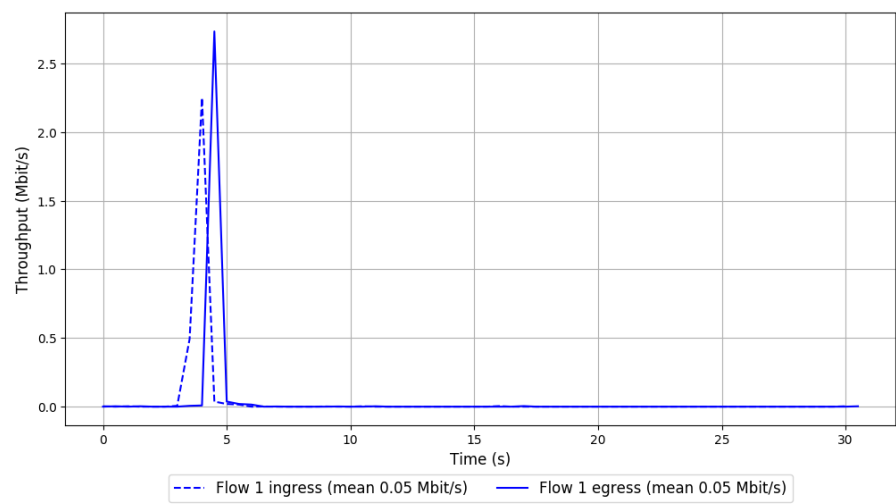


Run 4: Statistics of WebRTC media

Start at: 2018-05-21 22:49:20
End at: 2018-05-21 22:49:50
Local clock offset: 6.192 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2018-05-22 01:55:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 112.002 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 112.002 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-05-21 23:09:56

End at: 2018-05-21 23:10:26

Local clock offset: 2.693 ms

Remote clock offset: 0.358 ms

Below is generated by plot.py at 2018-05-22 01:55:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 111.974 ms

Loss rate: 0.00%

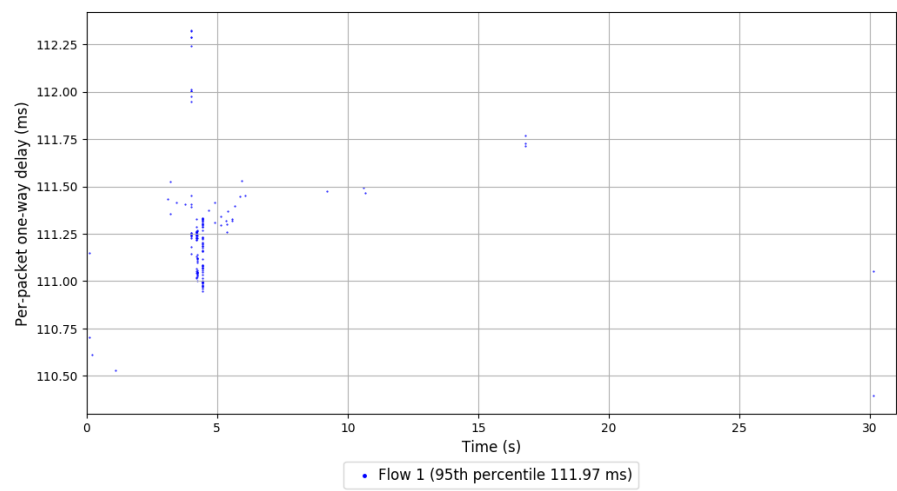
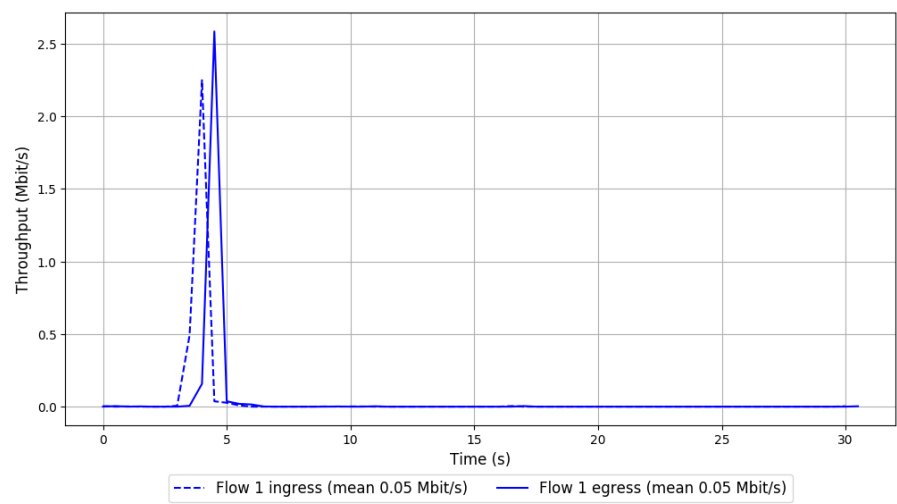
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 111.974 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

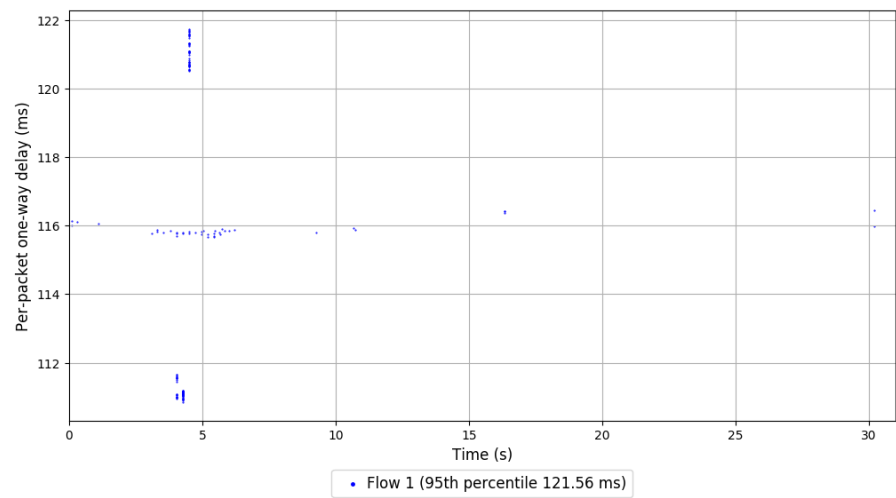
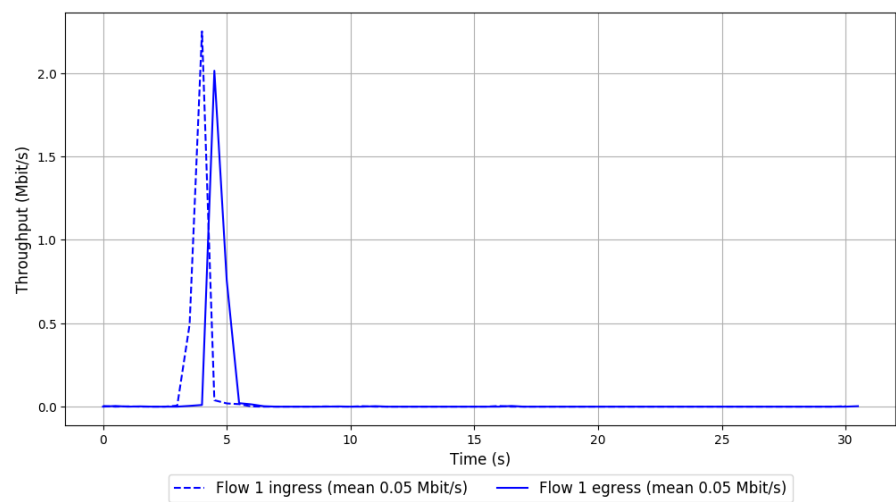


Run 6: Statistics of WebRTC media

Start at: 2018-05-21 23:30:13
End at: 2018-05-21 23:30:43
Local clock offset: 1.066 ms
Remote clock offset: -0.098 ms

Below is generated by plot.py at 2018-05-22 01:55:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 121.555 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 121.555 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

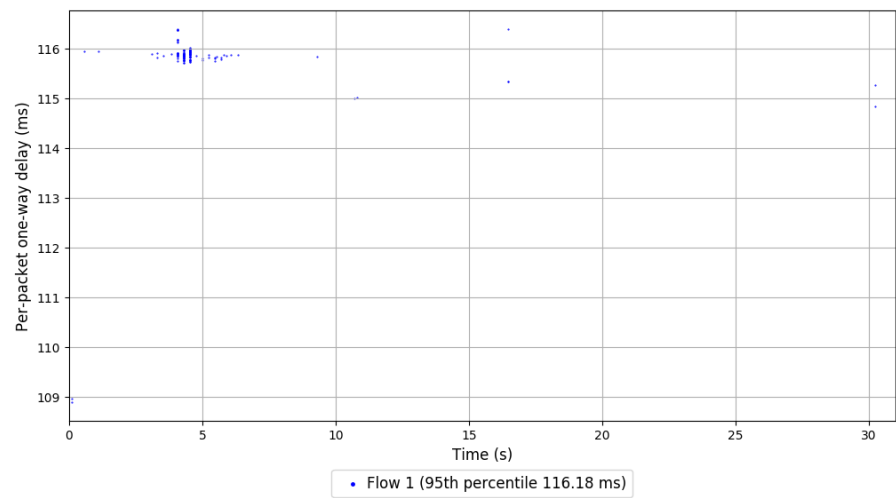
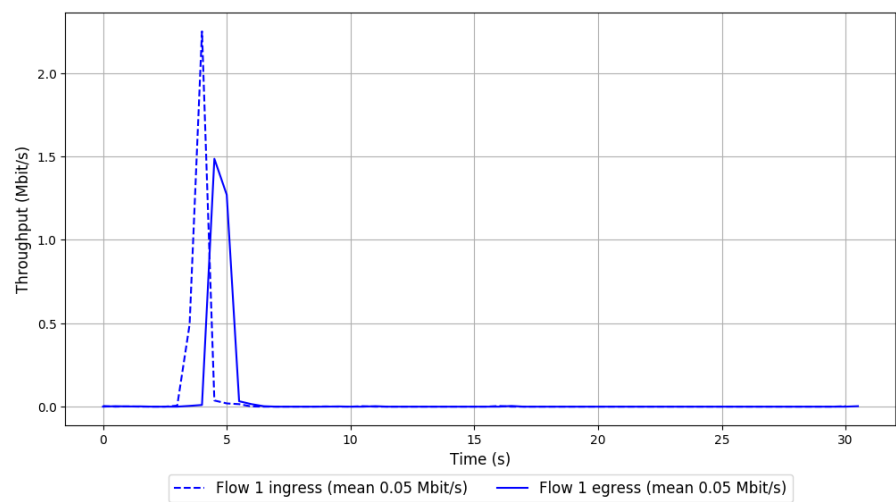


Run 7: Statistics of WebRTC media

Start at: 2018-05-21 23:50:37
End at: 2018-05-21 23:51:08
Local clock offset: 1.421 ms
Remote clock offset: -0.061 ms

Below is generated by plot.py at 2018-05-22 01:55:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 116.179 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 116.179 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

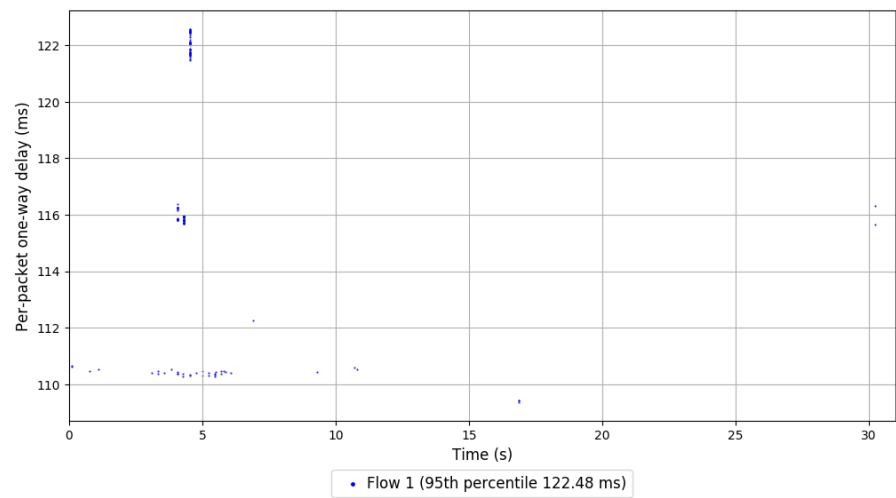
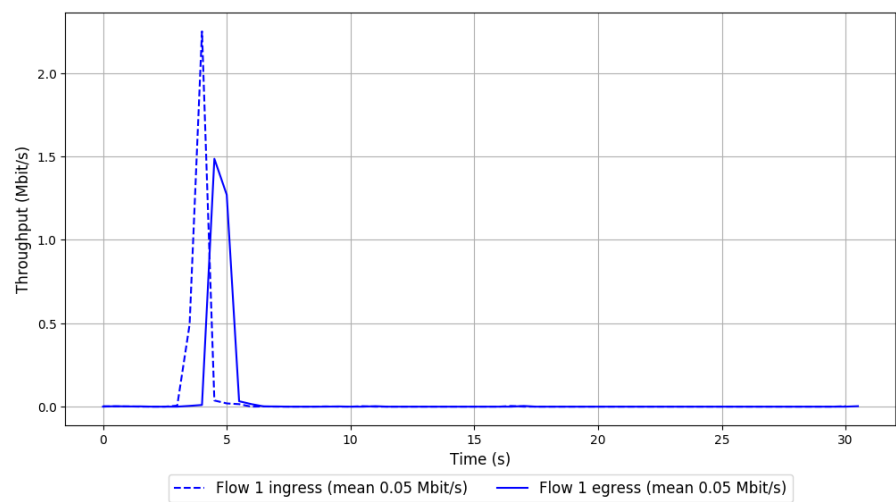


Run 8: Statistics of WebRTC media

Start at: 2018-05-22 00:10:53
End at: 2018-05-22 00:11:23
Local clock offset: 0.694 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2018-05-22 01:55:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 122.480 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 122.480 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

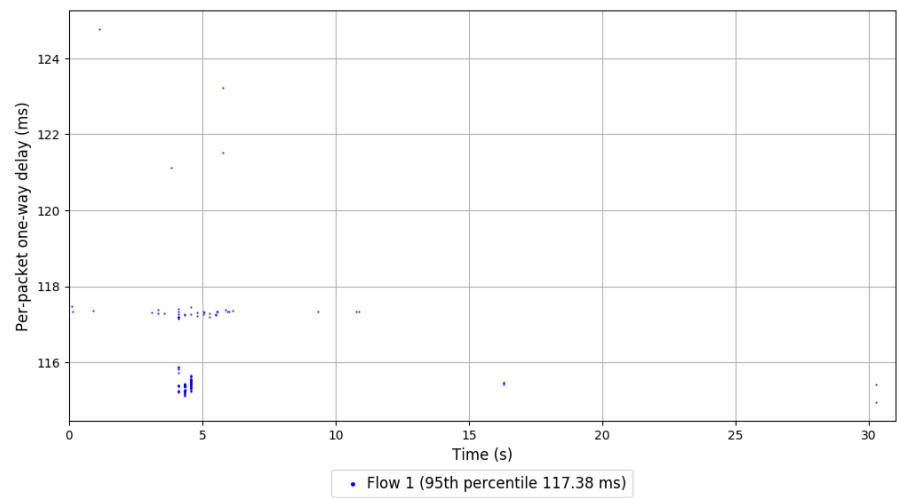
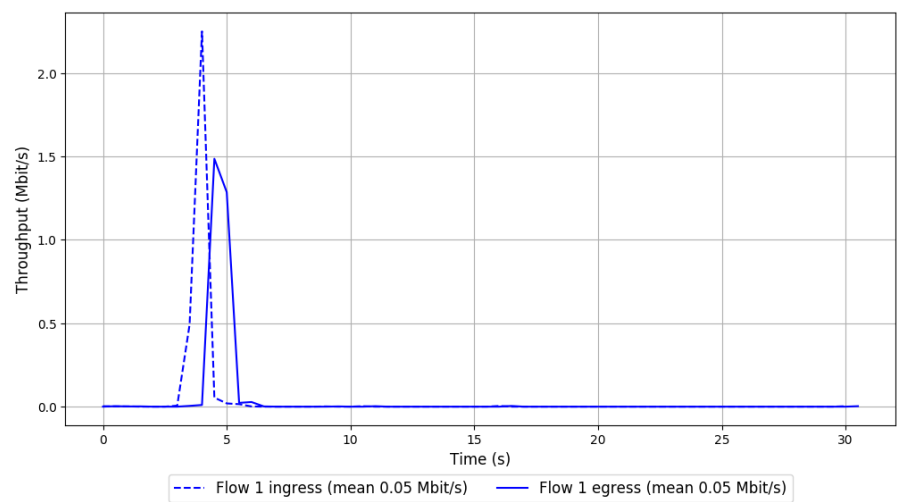


Run 9: Statistics of WebRTC media

Start at: 2018-05-22 00:31:02
End at: 2018-05-22 00:31:32
Local clock offset: 0.287 ms
Remote clock offset: -0.103 ms

Below is generated by plot.py at 2018-05-22 01:55:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 117.380 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 117.380 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-22 00:51:06

End at: 2018-05-22 00:51:36

Local clock offset: 0.294 ms

Remote clock offset: -0.521 ms

Below is generated by plot.py at 2018-05-22 01:55:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 121.126 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 121.126 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

