

Pantheon Report

Generated at 2019-02-05 05:22:38 (UTC).

Data path: GCE Tokyo on *ens4 (local)* → GCE London on *ens4 (remote)*.

Repeated the test of 21 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

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

System info:

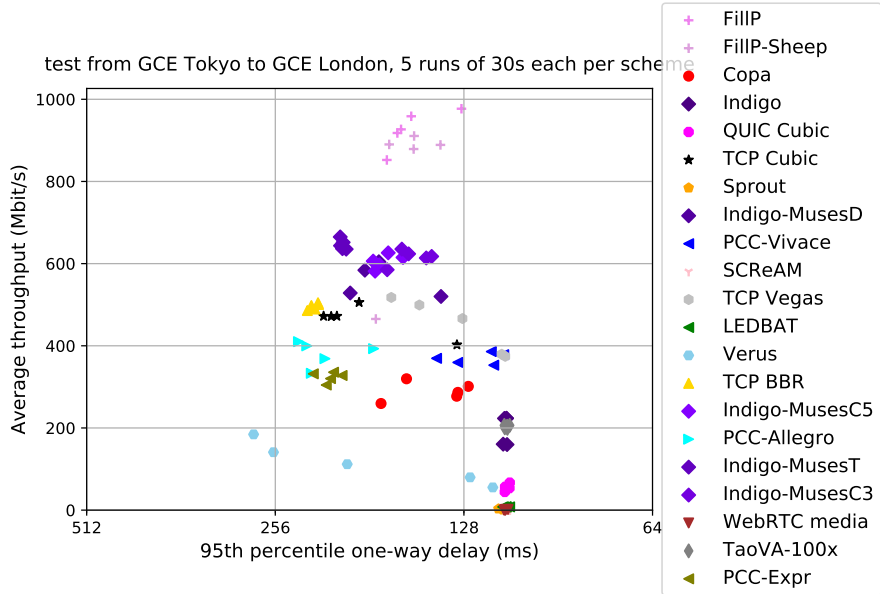
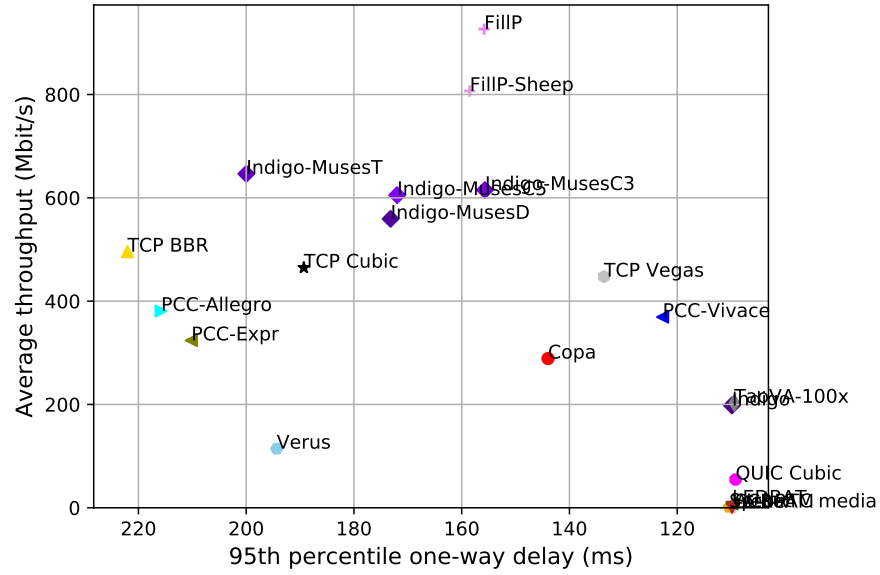
```
Linux 4.15.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd9c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
  M src/ScreamClient
  M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from GCE Tokyo to GCE London, 5 runs of 30s each per scheme
(mean of all runs by scheme)



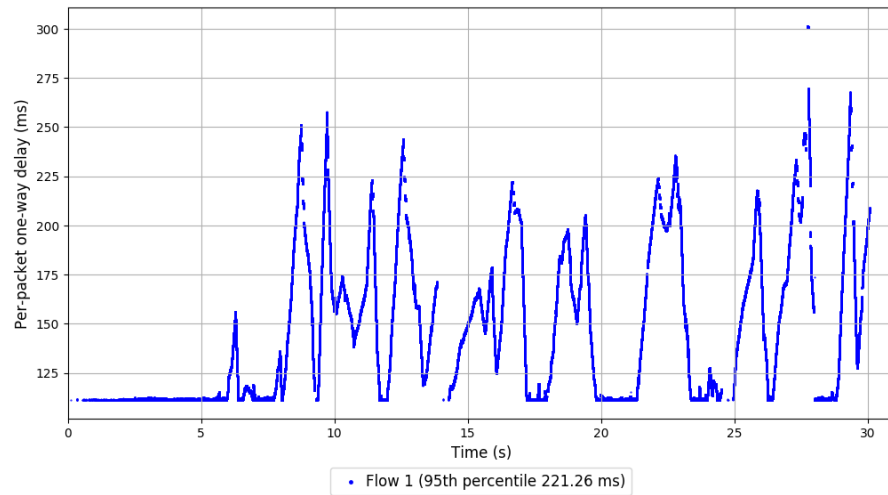
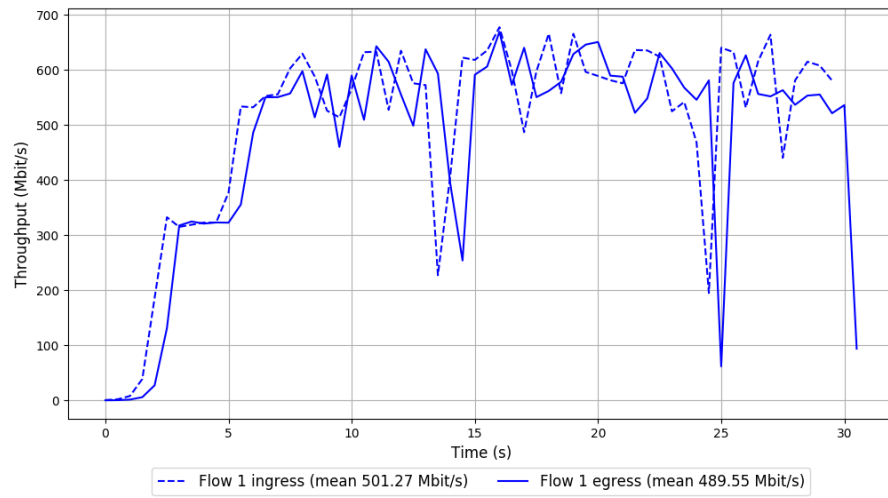
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	495.78	222.04	2.24
Copa	5	288.85	143.98	0.09
TCP Cubic	5	464.76	189.30	0.11
FillP	5	926.54	155.82	1.09
FillP-Sheep	5	806.79	158.51	1.22
Indigo	5	198.10	109.85	0.00
Indigo-MusesC3	5	615.11	155.68	0.08
Indigo-MusesC5	5	605.21	171.98	0.06
Indigo-MusesD	4	559.29	173.20	0.11
Indigo-MusesT	5	646.41	199.98	0.52
LEDBAT	5	7.84	109.81	0.00
PCC-Allegro	5	380.93	215.80	2.62
PCC-Expr	5	323.96	210.19	2.75
QUIC Cubic	5	54.69	109.17	0.00
SCReAM	5	0.22	109.27	0.00
Sprout	5	1.16	110.34	0.00
TaoVA-100x	5	203.23	109.40	0.00
TCP Vegas	5	447.39	133.60	0.00
Verus	5	114.45	194.34	5.42
PCC-Vivace	5	369.21	122.70	0.08
WebRTC media	5	0.76	109.82	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-02-05 01:10:00
End at: 2019-02-05 01:10:30
Local clock offset: 13.091 ms
Remote clock offset: 12.965 ms

Below is generated by plot.py at 2019-02-05 03:47:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 489.55 Mbit/s
95th percentile per-packet one-way delay: 221.262 ms
Loss rate: 2.35%
-- Flow 1:
Average throughput: 489.55 Mbit/s
95th percentile per-packet one-way delay: 221.262 ms
Loss rate: 2.35%

Run 1: Report of TCP BBR — Data Link

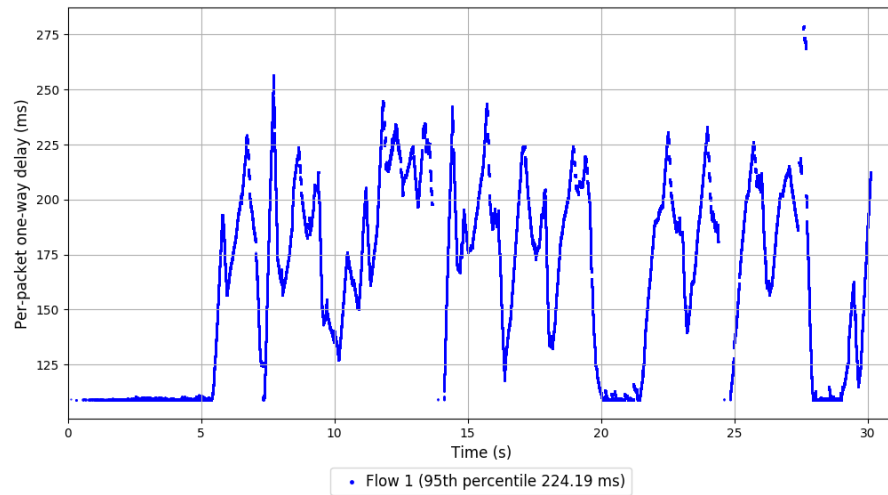
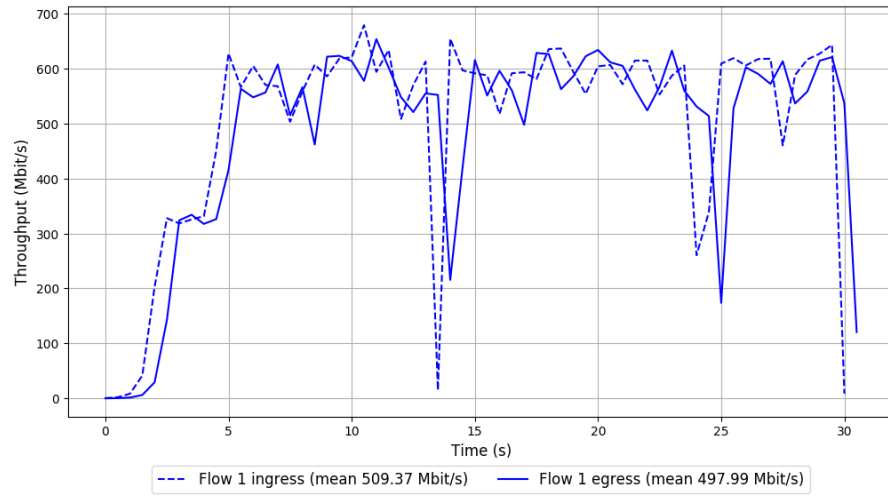


Run 2: Statistics of TCP BBR

Start at: 2019-02-05 01:42:03
End at: 2019-02-05 01:42:33
Local clock offset: 25.404 ms
Remote clock offset: 24.866 ms

Below is generated by plot.py at 2019-02-05 03:47:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 497.99 Mbit/s
95th percentile per-packet one-way delay: 224.193 ms
Loss rate: 2.23%
-- Flow 1:
Average throughput: 497.99 Mbit/s
95th percentile per-packet one-way delay: 224.193 ms
Loss rate: 2.23%

Run 2: Report of TCP BBR — Data Link

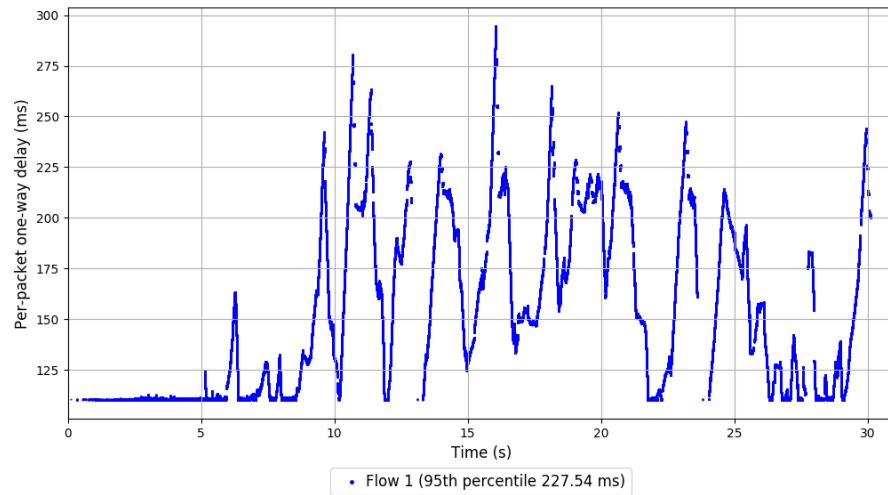
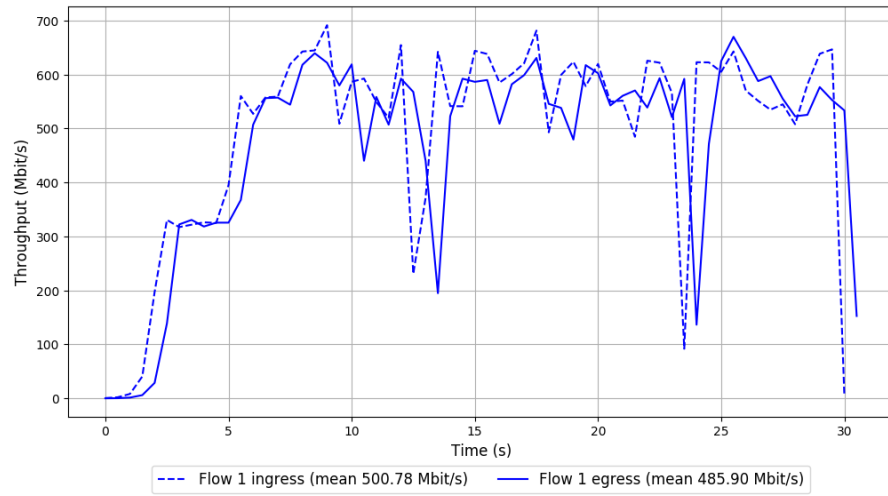


Run 3: Statistics of TCP BBR

Start at: 2019-02-05 02:14:22
End at: 2019-02-05 02:14:52
Local clock offset: 13.363 ms
Remote clock offset: 13.471 ms

Below is generated by plot.py at 2019-02-05 03:47:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 485.90 Mbit/s
95th percentile per-packet one-way delay: 227.544 ms
Loss rate: 2.97%
-- Flow 1:
Average throughput: 485.90 Mbit/s
95th percentile per-packet one-way delay: 227.544 ms
Loss rate: 2.97%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-02-05 02:46:14

End at: 2019-02-05 02:46:45

Local clock offset: 4.961 ms

Remote clock offset: 6.841 ms

Below is generated by plot.py at 2019-02-05 03:47:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 504.82 Mbit/s

95th percentile per-packet one-way delay: 218.811 ms

Loss rate: 2.05%

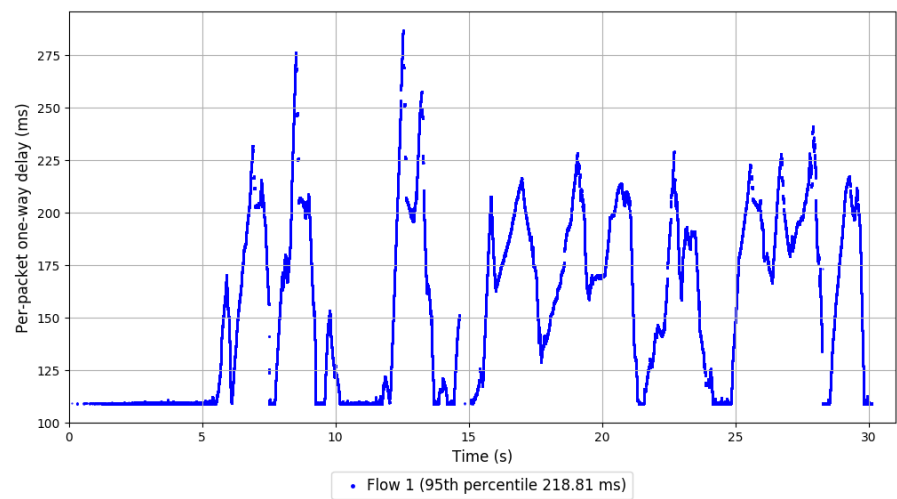
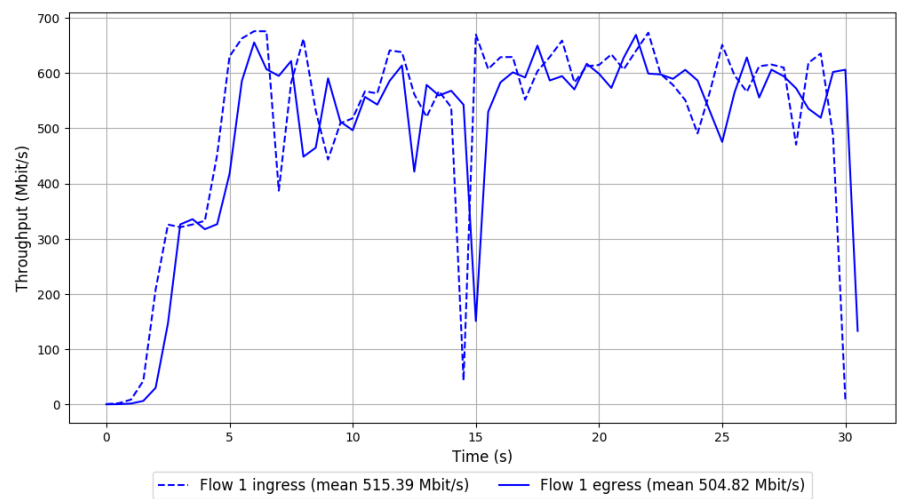
-- Flow 1:

Average throughput: 504.82 Mbit/s

95th percentile per-packet one-way delay: 218.811 ms

Loss rate: 2.05%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-02-05 03:18:17

End at: 2019-02-05 03:18:47

Local clock offset: 0.885 ms

Remote clock offset: 2.18 ms

Below is generated by plot.py at 2019-02-05 03:47:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 500.63 Mbit/s

95th percentile per-packet one-way delay: 218.384 ms

Loss rate: 1.60%

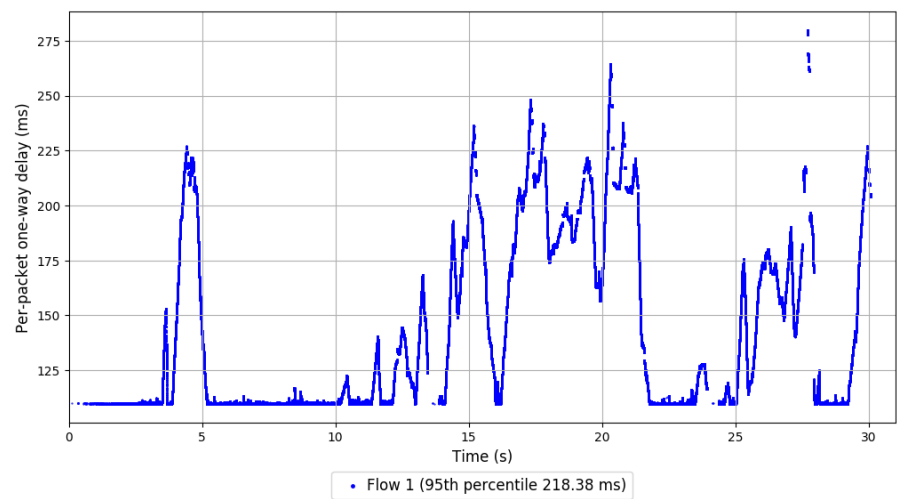
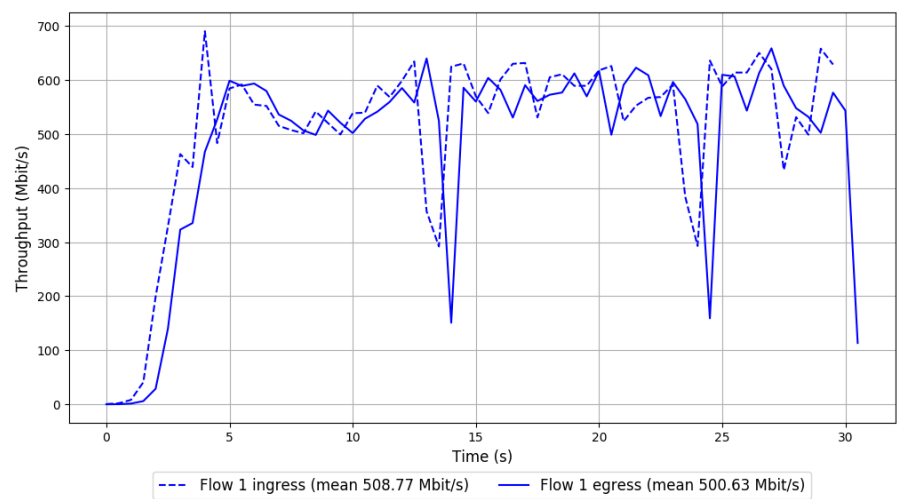
-- Flow 1:

Average throughput: 500.63 Mbit/s

95th percentile per-packet one-way delay: 218.384 ms

Loss rate: 1.60%

Run 5: Report of TCP BBR — Data Link

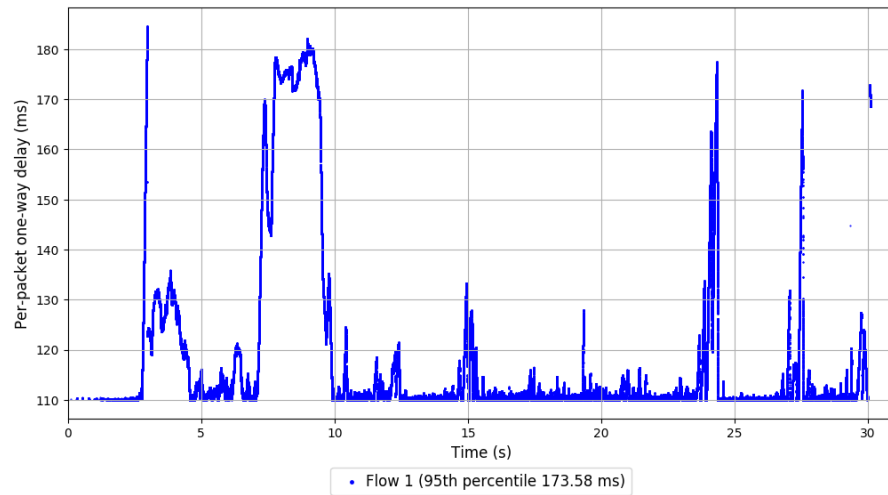
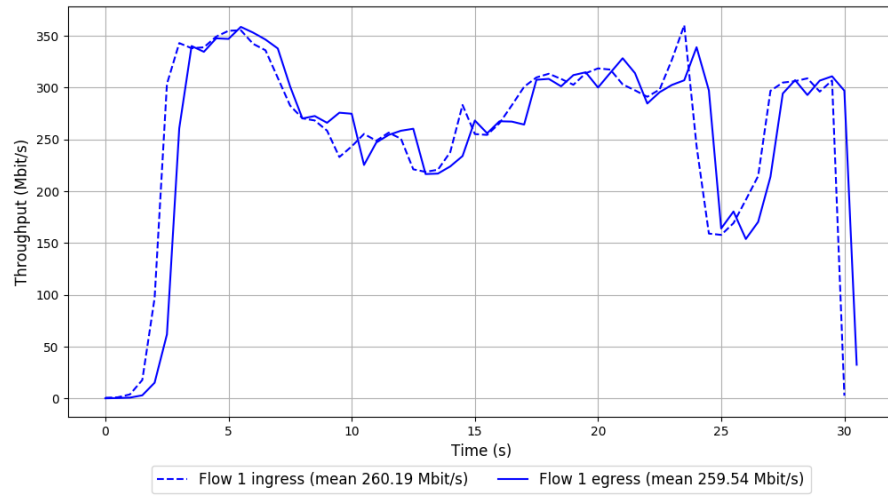


Run 1: Statistics of Copa

Start at: 2019-02-05 01:00:56
End at: 2019-02-05 01:01:26
Local clock offset: 12.281 ms
Remote clock offset: 12.904 ms

Below is generated by plot.py at 2019-02-05 03:47:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 259.54 Mbit/s
95th percentile per-packet one-way delay: 173.576 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 259.54 Mbit/s
95th percentile per-packet one-way delay: 173.576 ms
Loss rate: 0.25%

Run 1: Report of Copa — Data Link

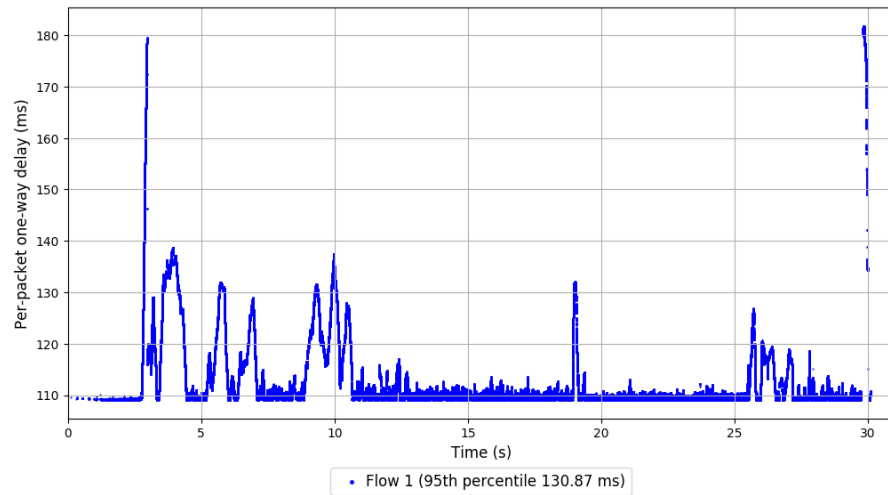
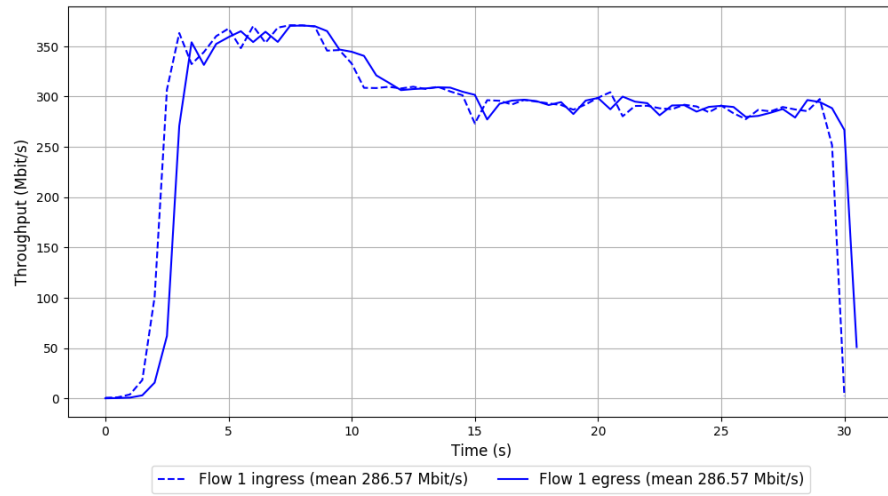


Run 2: Statistics of Copa

Start at: 2019-02-05 01:32:58
End at: 2019-02-05 01:33:28
Local clock offset: 18.503 ms
Remote clock offset: 18.52 ms

Below is generated by plot.py at 2019-02-05 03:47:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 286.57 Mbit/s
95th percentile per-packet one-way delay: 130.870 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 286.57 Mbit/s
95th percentile per-packet one-way delay: 130.870 ms
Loss rate: 0.00%

Run 2: Report of Copa — Data Link

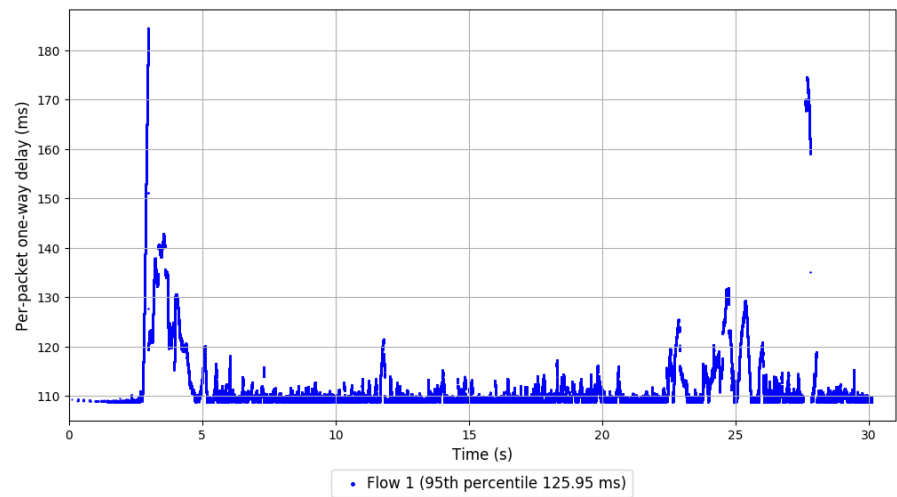
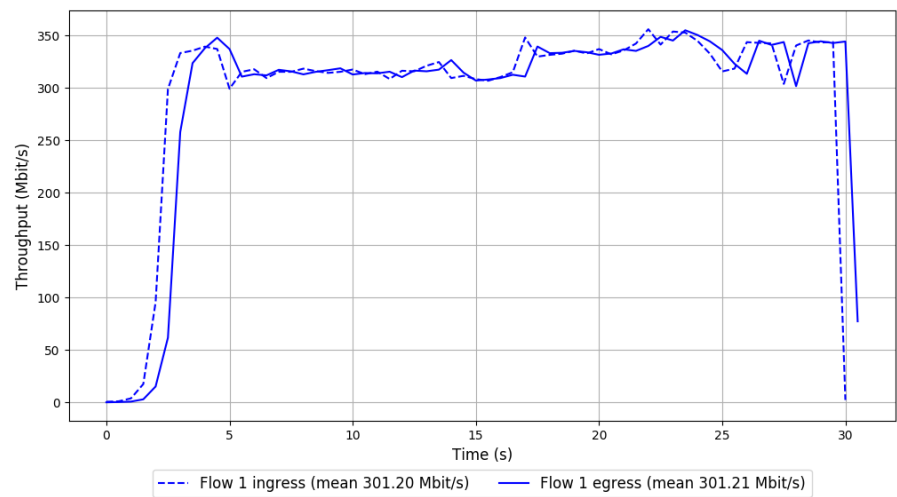


Run 3: Statistics of Copa

Start at: 2019-02-05 02:05:13
End at: 2019-02-05 02:05:43
Local clock offset: 15.803 ms
Remote clock offset: 14.832 ms

Below is generated by plot.py at 2019-02-05 03:48:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 301.21 Mbit/s
95th percentile per-packet one-way delay: 125.948 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 301.21 Mbit/s
95th percentile per-packet one-way delay: 125.948 ms
Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-02-05 02:37:12

End at: 2019-02-05 02:37:42

Local clock offset: 8.897 ms

Remote clock offset: 7.941 ms

Below is generated by plot.py at 2019-02-05 03:56:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 277.23 Mbit/s

95th percentile per-packet one-way delay: 131.440 ms

Loss rate: 0.00%

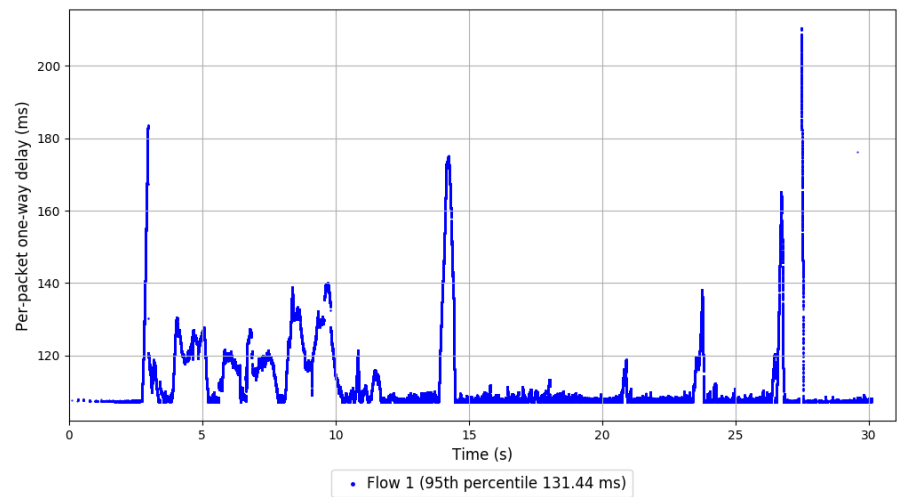
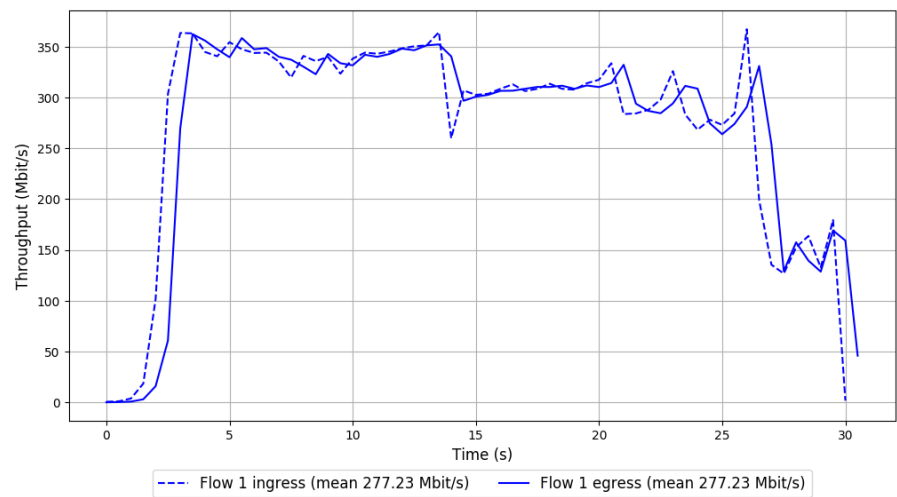
-- Flow 1:

Average throughput: 277.23 Mbit/s

95th percentile per-packet one-way delay: 131.440 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-02-05 03:09:04

End at: 2019-02-05 03:09:34

Local clock offset: 1.665 ms

Remote clock offset: 4.111 ms

Below is generated by plot.py at 2019-02-05 03:57:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 319.70 Mbit/s

95th percentile per-packet one-way delay: 158.062 ms

Loss rate: 0.21%

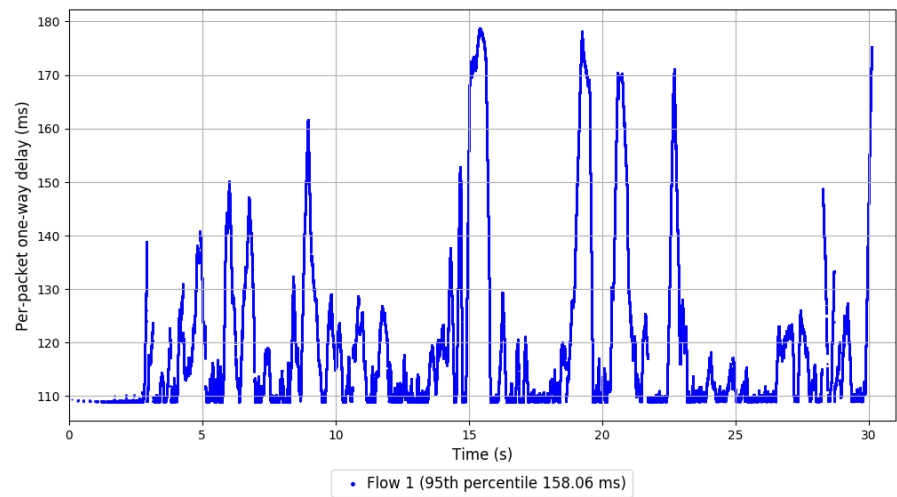
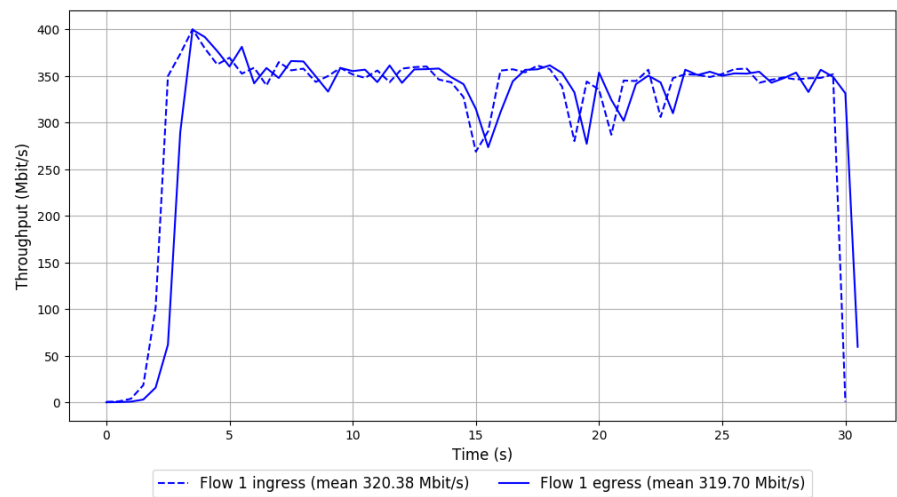
-- Flow 1:

Average throughput: 319.70 Mbit/s

95th percentile per-packet one-way delay: 158.062 ms

Loss rate: 0.21%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-02-05 00:52:01

End at: 2019-02-05 00:52:31

Local clock offset: 5.978 ms

Remote clock offset: 6.541 ms

Below is generated by plot.py at 2019-02-05 03:57:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 472.10 Mbit/s

95th percentile per-packet one-way delay: 204.172 ms

Loss rate: 0.22%

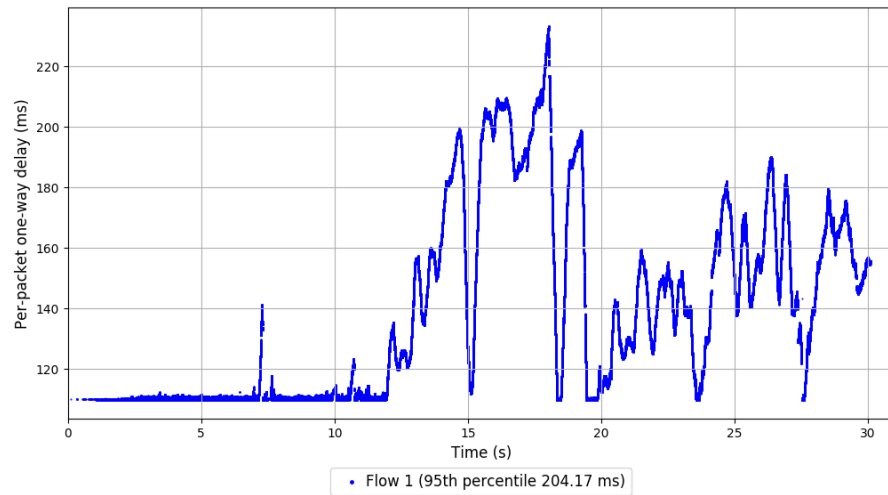
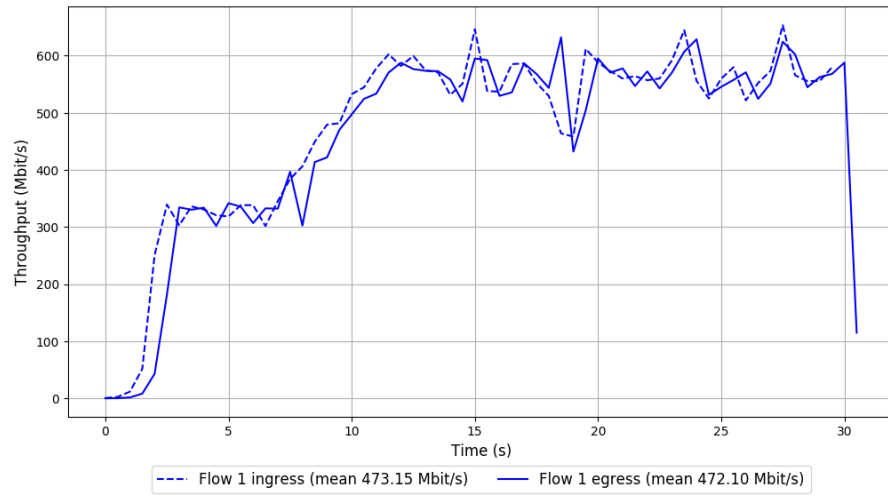
-- Flow 1:

Average throughput: 472.10 Mbit/s

95th percentile per-packet one-way delay: 204.172 ms

Loss rate: 0.22%

Run 1: Report of TCP Cubic — Data Link

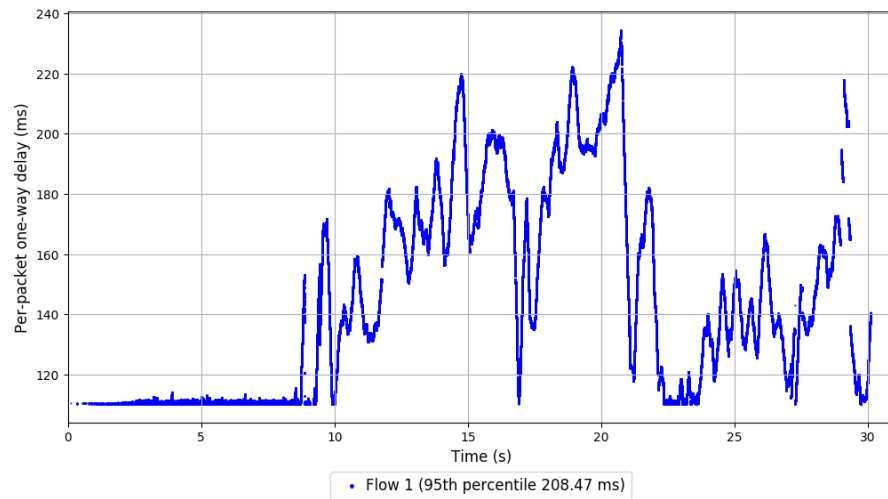
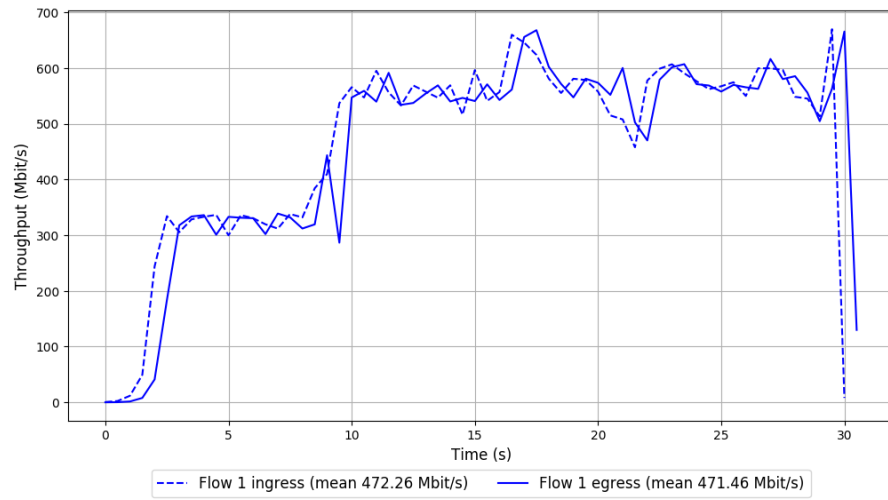


Run 2: Statistics of TCP Cubic

Start at: 2019-02-05 01:23:44
End at: 2019-02-05 01:24:14
Local clock offset: 18.568 ms
Remote clock offset: 18.675 ms

Below is generated by plot.py at 2019-02-05 03:57:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 471.46 Mbit/s
95th percentile per-packet one-way delay: 208.467 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 471.46 Mbit/s
95th percentile per-packet one-way delay: 208.467 ms
Loss rate: 0.17%

Run 2: Report of TCP Cubic — Data Link

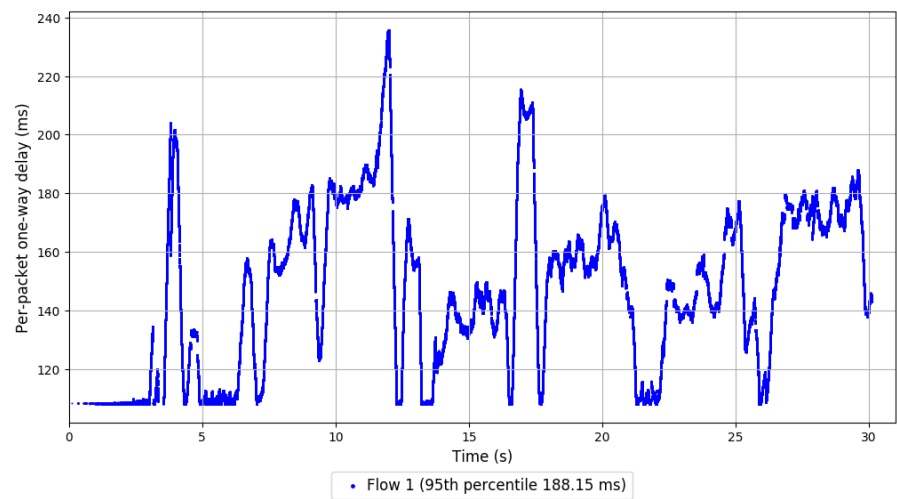
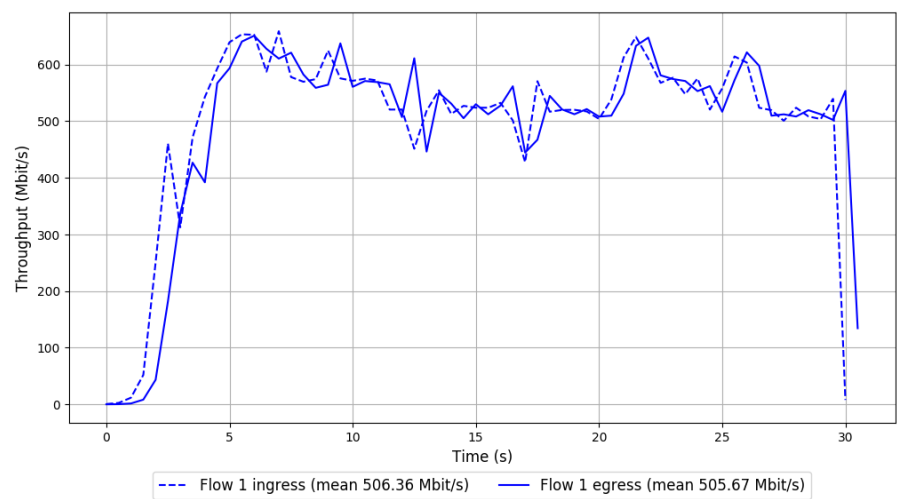


Run 3: Statistics of TCP Cubic

Start at: 2019-02-05 01:55:46
End at: 2019-02-05 01:56:17
Local clock offset: 30.76 ms
Remote clock offset: 28.752 ms

Below is generated by plot.py at 2019-02-05 03:57:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 505.67 Mbit/s
95th percentile per-packet one-way delay: 188.149 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 505.67 Mbit/s
95th percentile per-packet one-way delay: 188.149 ms
Loss rate: 0.13%

Run 3: Report of TCP Cubic — Data Link

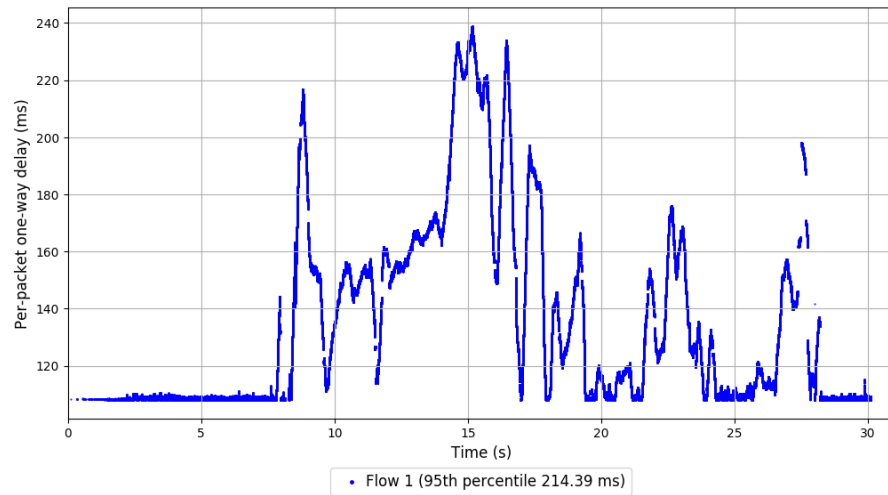
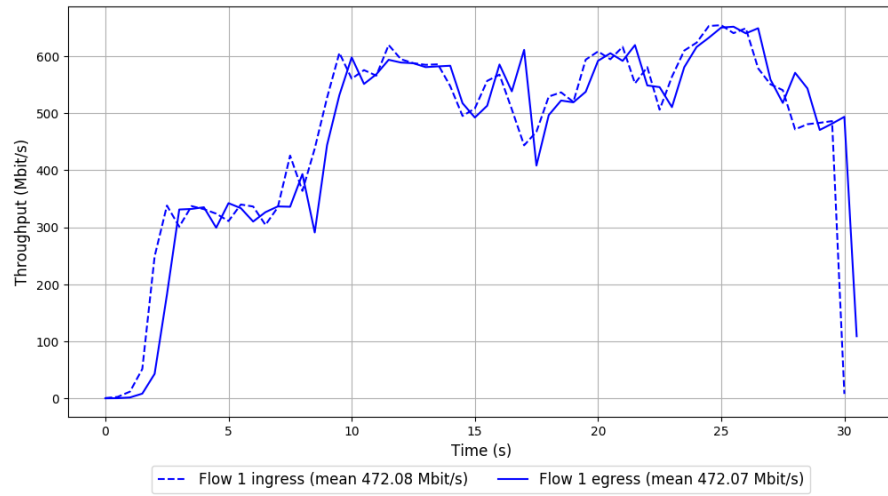


Run 4: Statistics of TCP Cubic

Start at: 2019-02-05 02:27:54
End at: 2019-02-05 02:28:24
Local clock offset: 19.094 ms
Remote clock offset: 17.712 ms

Below is generated by plot.py at 2019-02-05 03:57:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 472.07 Mbit/s
95th percentile per-packet one-way delay: 214.388 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 472.07 Mbit/s
95th percentile per-packet one-way delay: 214.388 ms
Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-02-05 02:59:51

End at: 2019-02-05 03:00:21

Local clock offset: 4.161 ms

Remote clock offset: 8.164 ms

Below is generated by plot.py at 2019-02-05 03:57:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 402.52 Mbit/s

95th percentile per-packet one-way delay: 131.331 ms

Loss rate: 0.04%

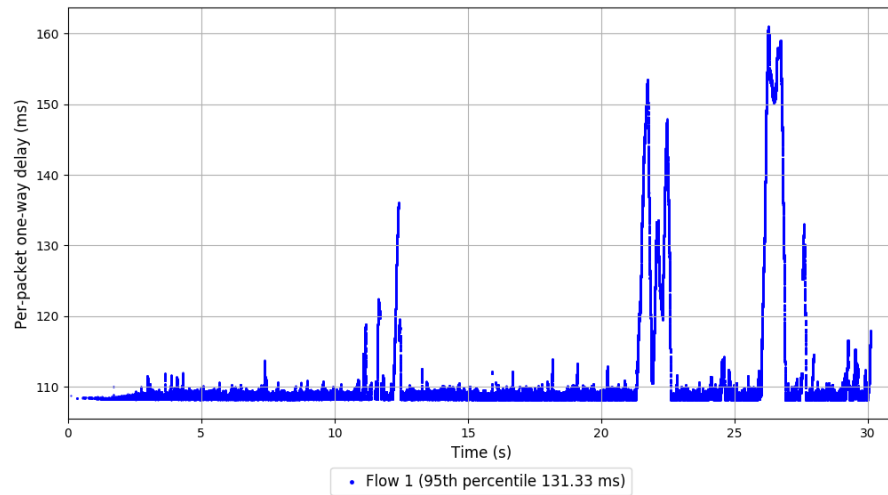
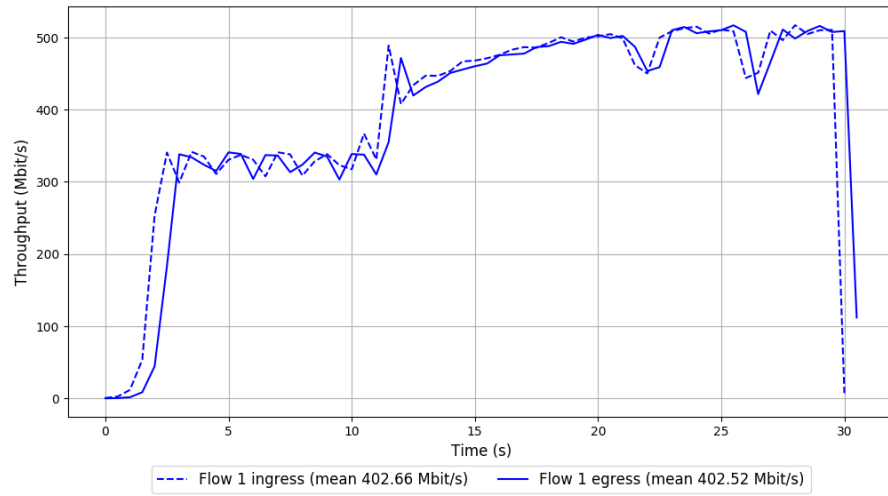
-- Flow 1:

Average throughput: 402.52 Mbit/s

95th percentile per-packet one-way delay: 131.331 ms

Loss rate: 0.04%

Run 5: Report of TCP Cubic — Data Link

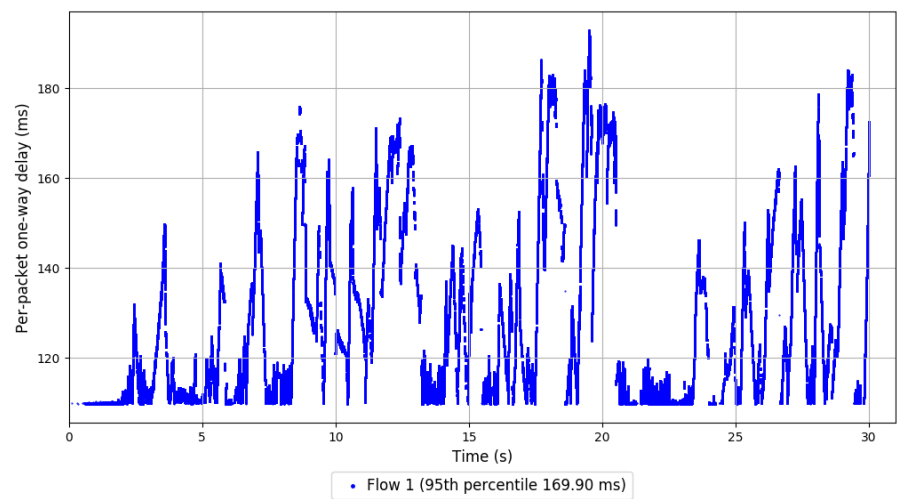
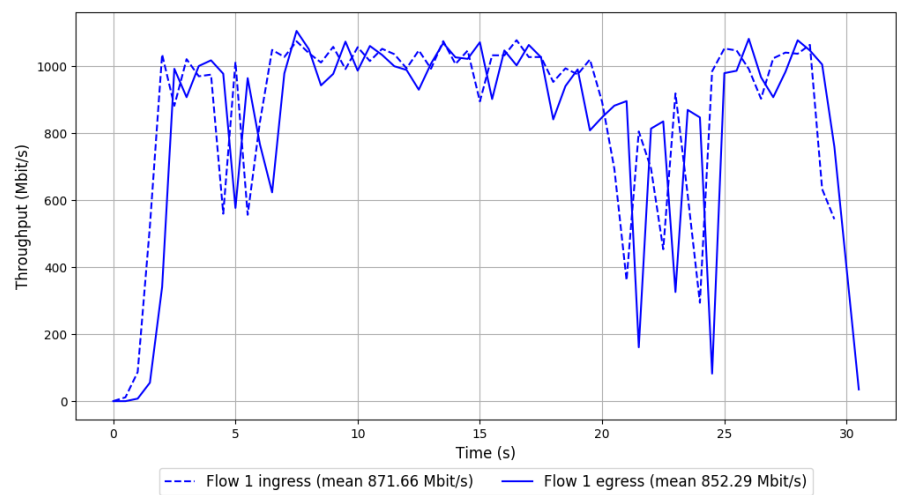


Run 1: Statistics of FillP

Start at: 2019-02-05 01:12:49
End at: 2019-02-05 01:13:19
Local clock offset: 15.213 ms
Remote clock offset: 15.535 ms

Below is generated by plot.py at 2019-02-05 04:04:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 852.29 Mbit/s
95th percentile per-packet one-way delay: 169.901 ms
Loss rate: 2.22%
-- Flow 1:
Average throughput: 852.29 Mbit/s
95th percentile per-packet one-way delay: 169.901 ms
Loss rate: 2.22%

Run 1: Report of FillP — Data Link

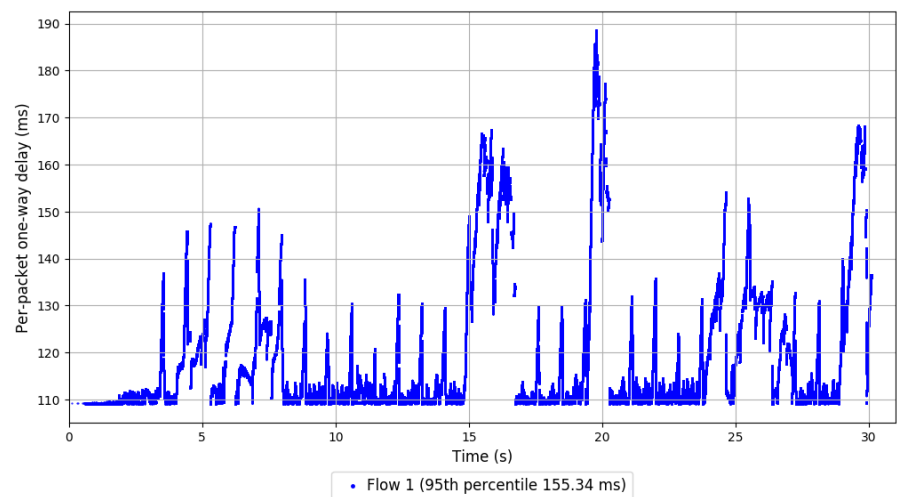
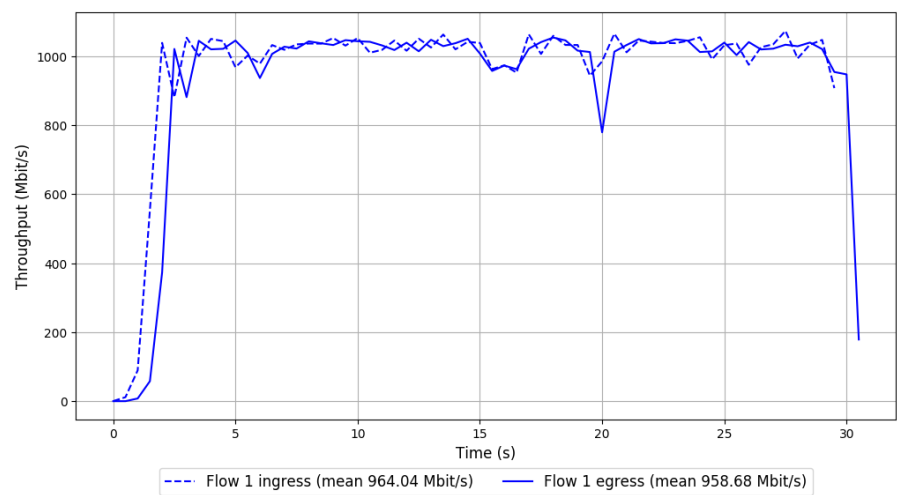


Run 2: Statistics of FillP

Start at: 2019-02-05 01:44:53
End at: 2019-02-05 01:45:23
Local clock offset: 27.344 ms
Remote clock offset: 26.837 ms

Below is generated by plot.py at 2019-02-05 04:15:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 958.68 Mbit/s
95th percentile per-packet one-way delay: 155.335 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 958.68 Mbit/s
95th percentile per-packet one-way delay: 155.335 ms
Loss rate: 0.55%

Run 2: Report of FillP — Data Link

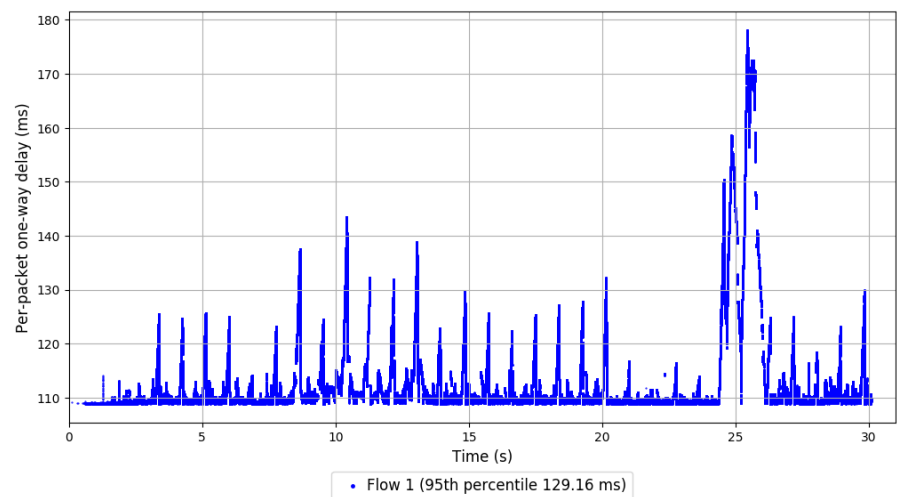
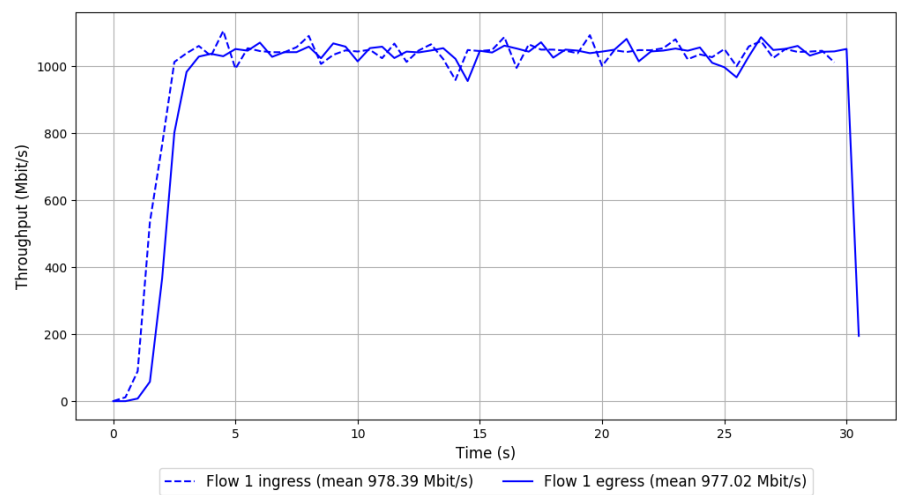


Run 3: Statistics of FillP

Start at: 2019-02-05 02:17:12
End at: 2019-02-05 02:17:42
Local clock offset: 15.185 ms
Remote clock offset: 14.325 ms

Below is generated by plot.py at 2019-02-05 04:16:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 977.02 Mbit/s
95th percentile per-packet one-way delay: 129.161 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 977.02 Mbit/s
95th percentile per-packet one-way delay: 129.161 ms
Loss rate: 0.14%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-02-05 02:49:06

End at: 2019-02-05 02:49:36

Local clock offset: 5.29 ms

Remote clock offset: 6.628 ms

Below is generated by plot.py at 2019-02-05 04:16:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 926.73 Mbit/s

95th percentile per-packet one-way delay: 161.262 ms

Loss rate: 1.19%

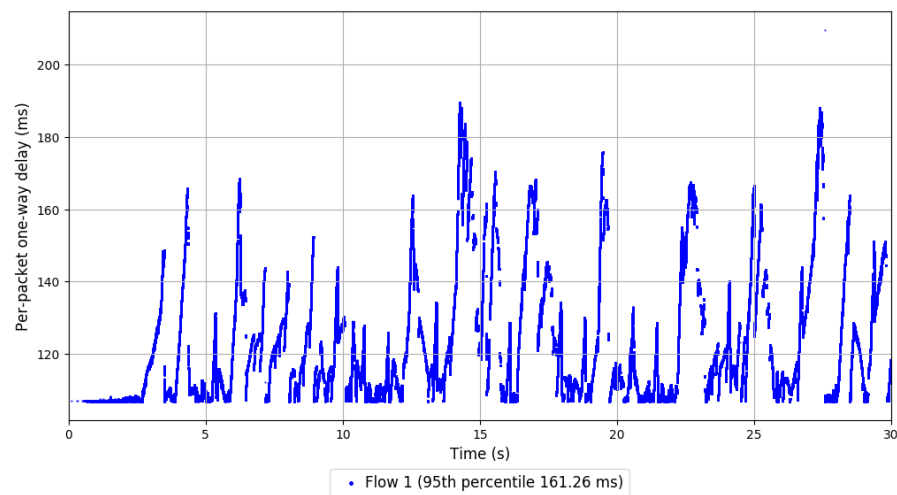
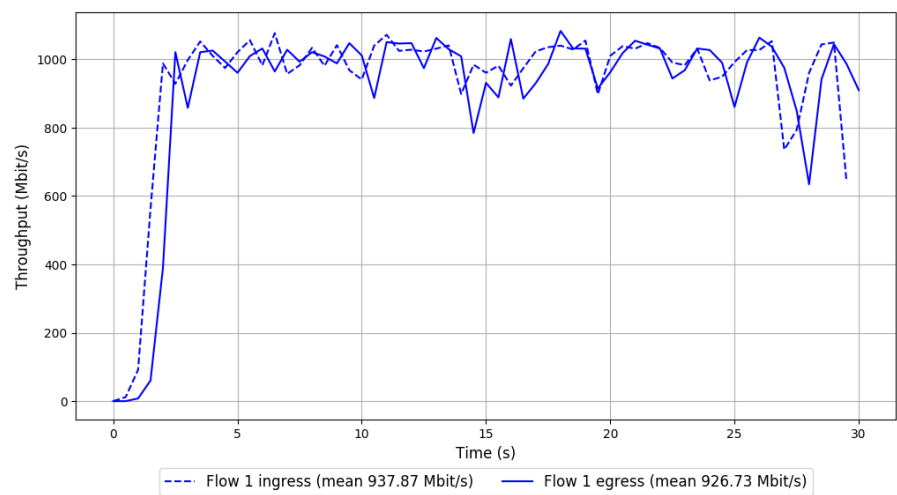
-- Flow 1:

Average throughput: 926.73 Mbit/s

95th percentile per-packet one-way delay: 161.262 ms

Loss rate: 1.19%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-02-05 03:21:08

End at: 2019-02-05 03:21:38

Local clock offset: 0.584 ms

Remote clock offset: 1.993 ms

Below is generated by plot.py at 2019-02-05 04:16:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 917.97 Mbit/s

95th percentile per-packet one-way delay: 163.465 ms

Loss rate: 1.37%

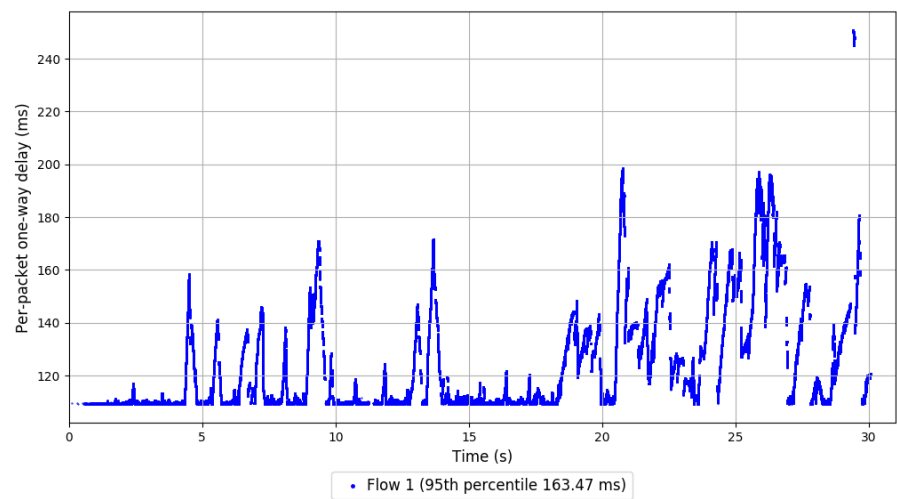
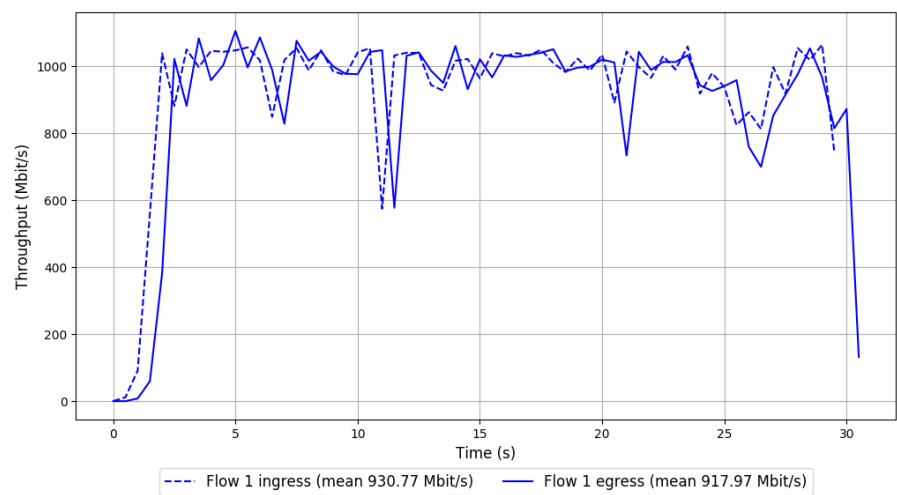
-- Flow 1:

Average throughput: 917.97 Mbit/s

95th percentile per-packet one-way delay: 163.465 ms

Loss rate: 1.37%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-02-05 00:57:49

End at: 2019-02-05 00:58:19

Local clock offset: 8.09 ms

Remote clock offset: 8.609 ms

Below is generated by plot.py at 2019-02-05 04:16:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 465.27 Mbit/s

95th percentile per-packet one-way delay: 176.919 ms

Loss rate: 2.28%

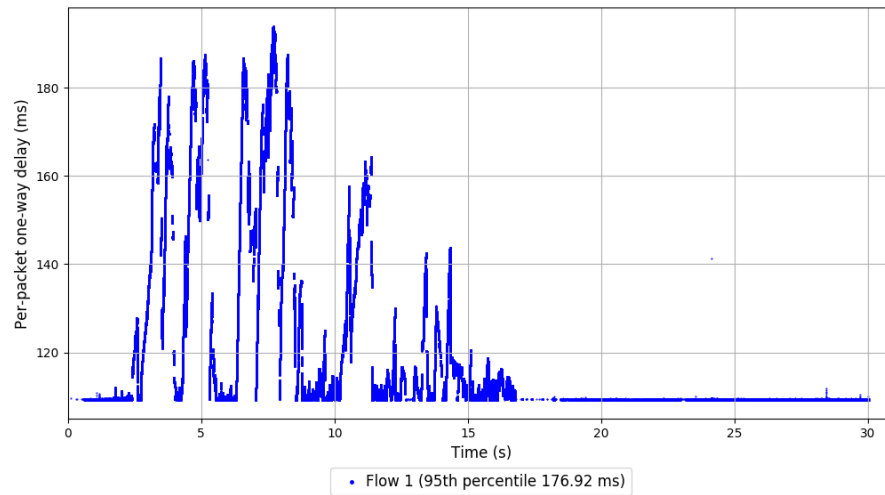
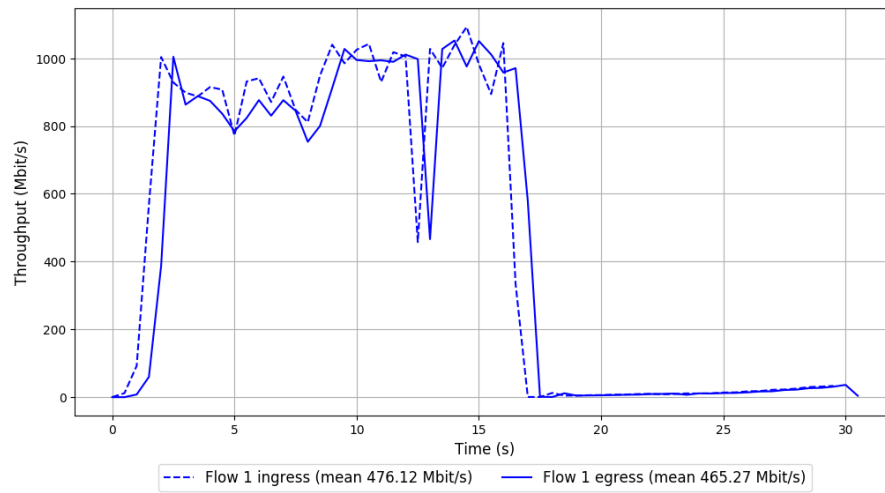
-- Flow 1:

Average throughput: 465.27 Mbit/s

95th percentile per-packet one-way delay: 176.919 ms

Loss rate: 2.28%

Run 1: Report of FillP-Sheep — Data Link

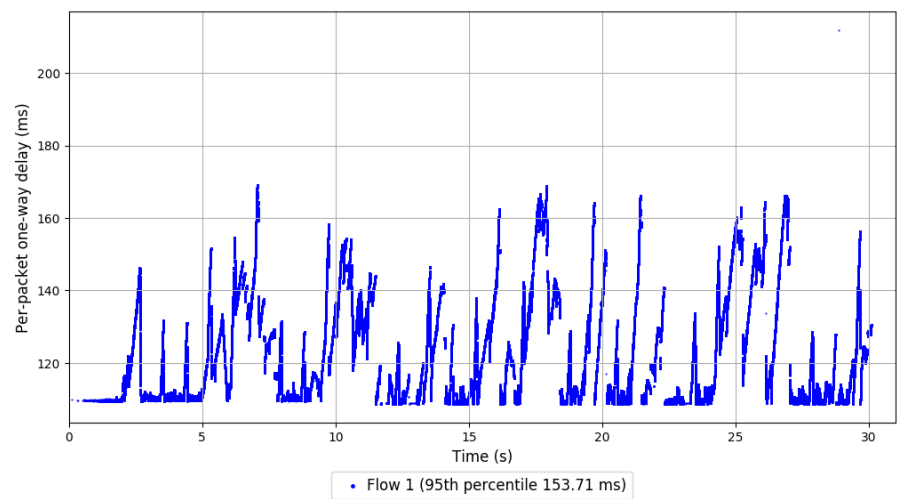
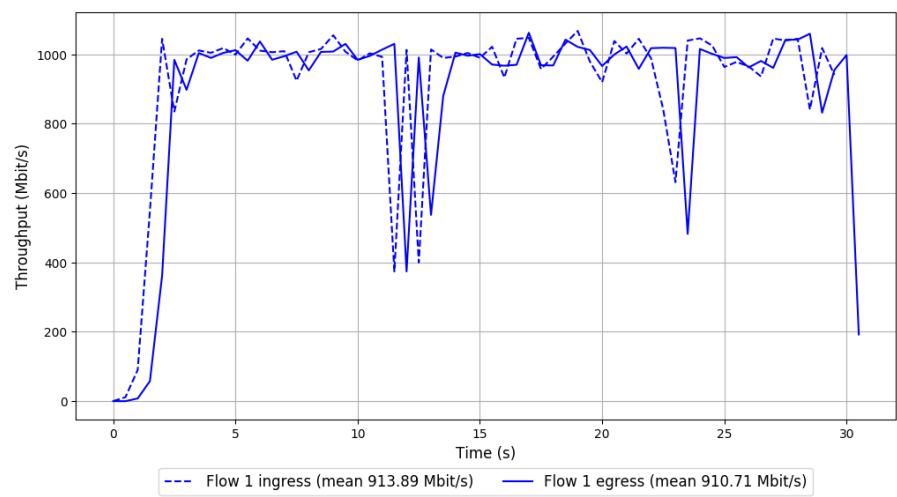


Run 2: Statistics of FillP-Sheep

Start at: 2019-02-05 01:29:34
End at: 2019-02-05 01:30:04
Local clock offset: 17.541 ms
Remote clock offset: 17.067 ms

Below is generated by plot.py at 2019-02-05 04:16:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 910.71 Mbit/s
95th percentile per-packet one-way delay: 153.706 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 910.71 Mbit/s
95th percentile per-packet one-way delay: 153.706 ms
Loss rate: 0.35%

Run 2: Report of FillP-Sheep — Data Link

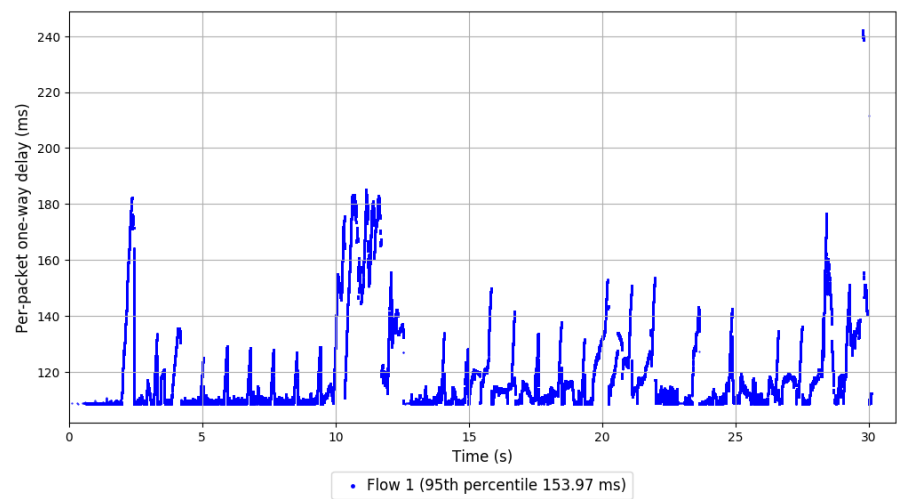
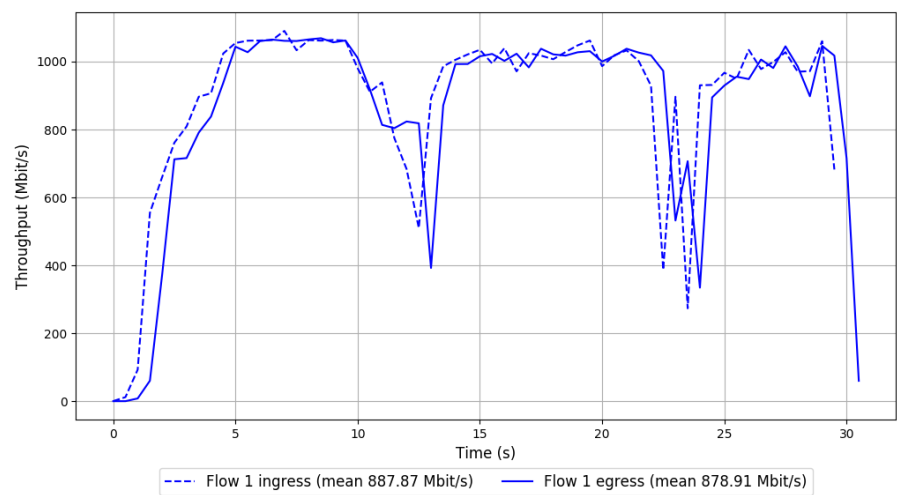


Run 3: Statistics of FillP-Sheep

Start at: 2019-02-05 02:01:41
End at: 2019-02-05 02:02:11
Local clock offset: 18.819 ms
Remote clock offset: 17.278 ms

Below is generated by plot.py at 2019-02-05 04:16:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 878.91 Mbit/s
95th percentile per-packet one-way delay: 153.971 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 878.91 Mbit/s
95th percentile per-packet one-way delay: 153.971 ms
Loss rate: 1.01%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-02-05 02:33:44

End at: 2019-02-05 02:34:14

Local clock offset: 10.756 ms

Remote clock offset: 10.22 ms

Below is generated by plot.py at 2019-02-05 04:25:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 888.96 Mbit/s

95th percentile per-packet one-way delay: 139.525 ms

Loss rate: 0.35%

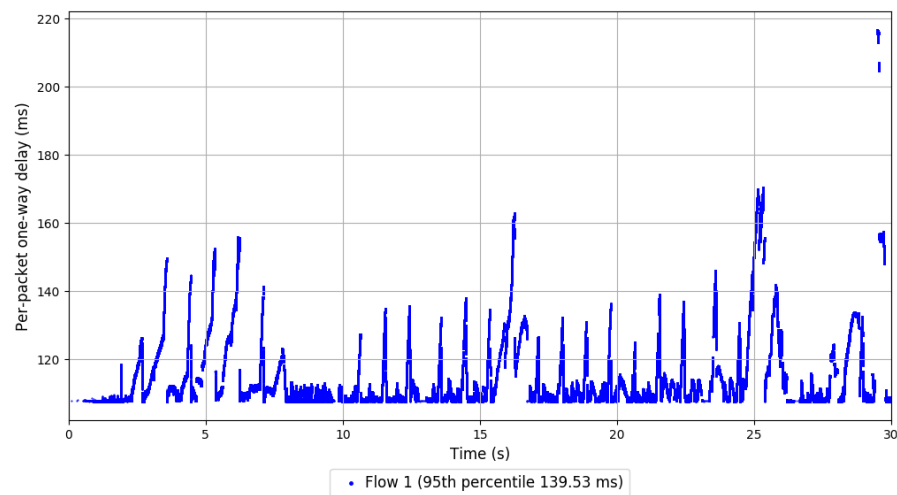
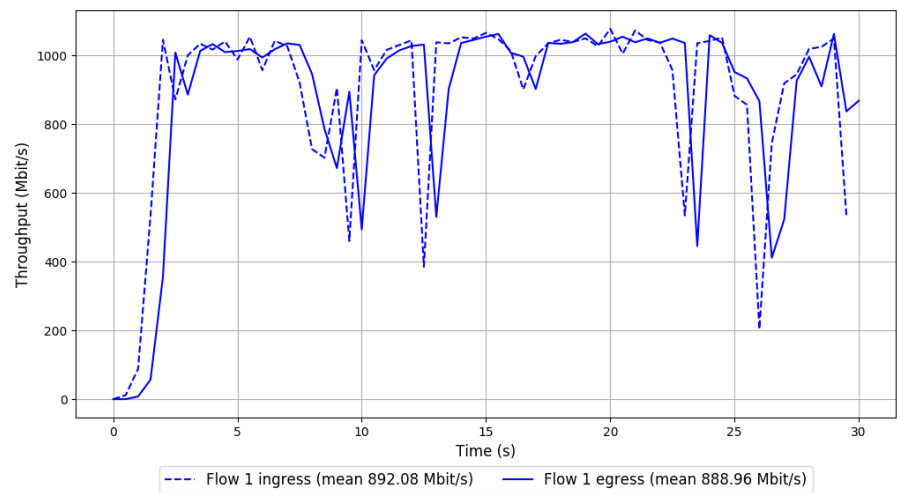
-- Flow 1:

Average throughput: 888.96 Mbit/s

95th percentile per-packet one-way delay: 139.525 ms

Loss rate: 0.35%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-02-05 03:05:35

End at: 2019-02-05 03:06:05

Local clock offset: 3.234 ms

Remote clock offset: 5.774 ms

Below is generated by plot.py at 2019-02-05 04:25:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 890.11 Mbit/s

95th percentile per-packet one-way delay: 168.445 ms

Loss rate: 2.13%

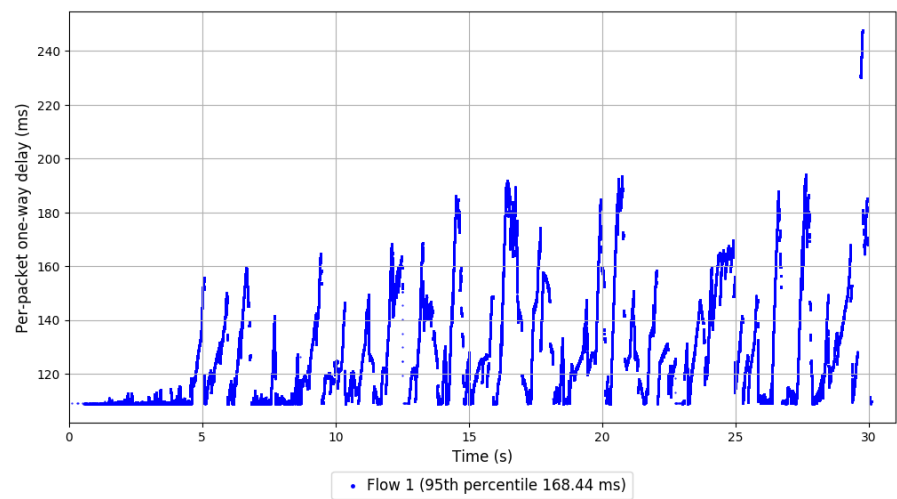
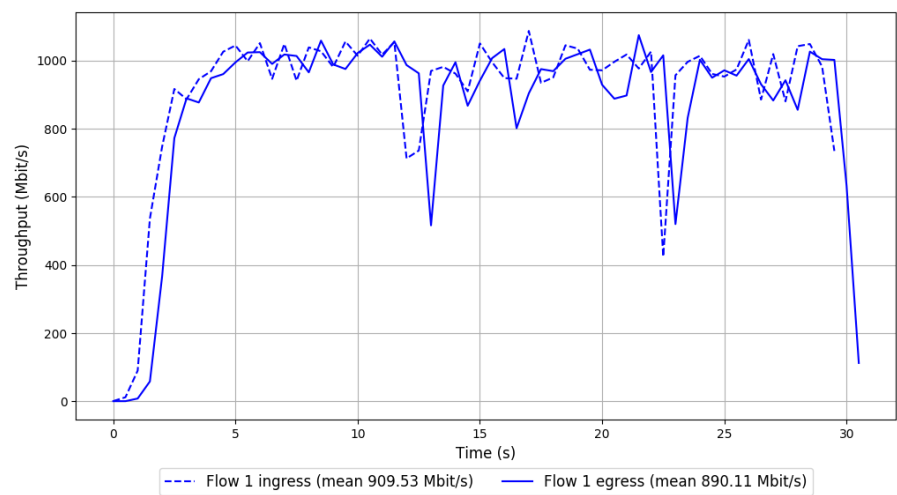
-- Flow 1:

Average throughput: 890.11 Mbit/s

95th percentile per-packet one-way delay: 168.445 ms

Loss rate: 2.13%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-02-05 00:56:18

End at: 2019-02-05 00:56:48

Local clock offset: 7.414 ms

Remote clock offset: 7.756 ms

Below is generated by plot.py at 2019-02-05 04:25:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.29 Mbit/s

95th percentile per-packet one-way delay: 110.287 ms

Loss rate: 0.00%

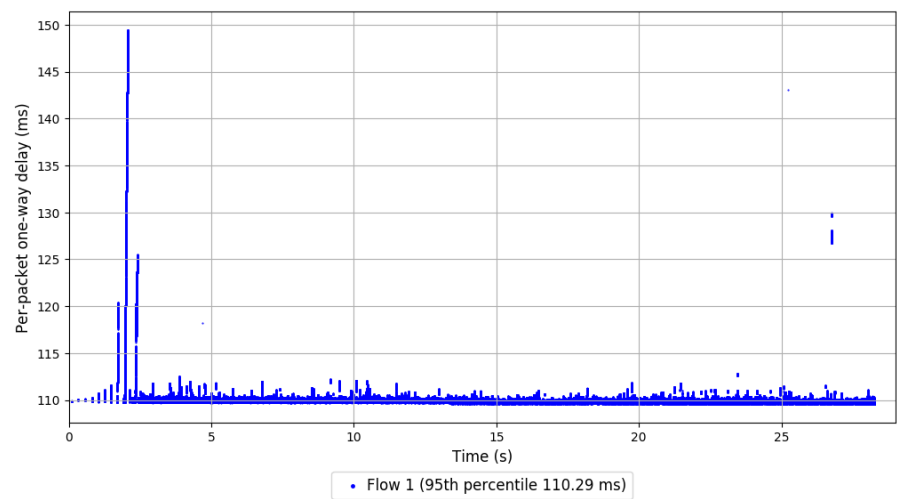
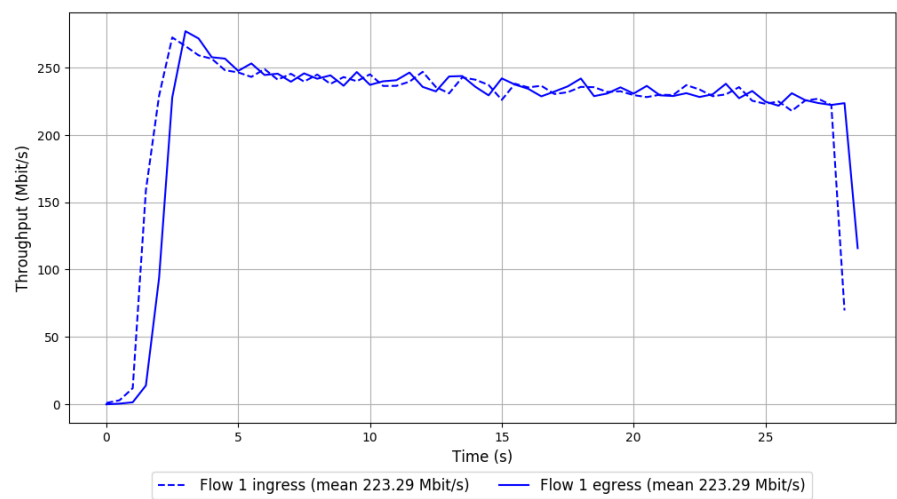
-- Flow 1:

Average throughput: 223.29 Mbit/s

95th percentile per-packet one-way delay: 110.287 ms

Loss rate: 0.00%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-02-05 01:28:08

End at: 2019-02-05 01:28:38

Local clock offset: 16.847 ms

Remote clock offset: 17.02 ms

Below is generated by plot.py at 2019-02-05 04:25:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.57 Mbit/s

95th percentile per-packet one-way delay: 110.800 ms

Loss rate: 0.00%

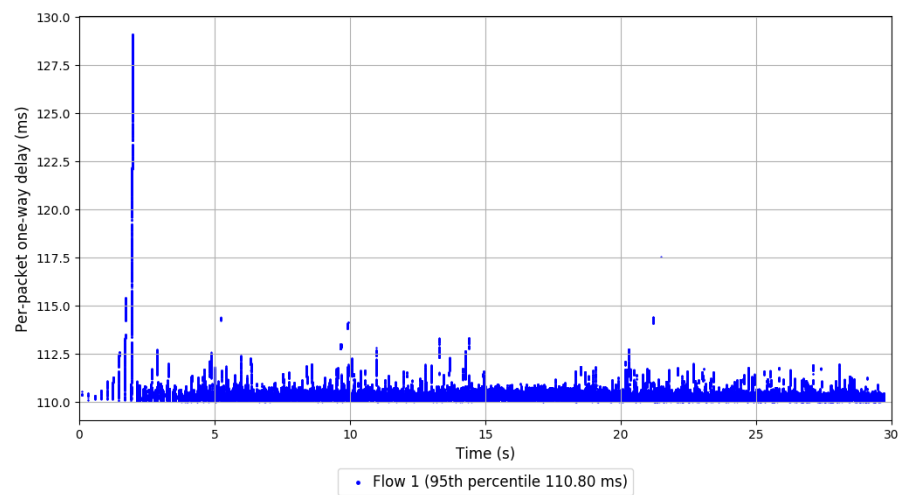
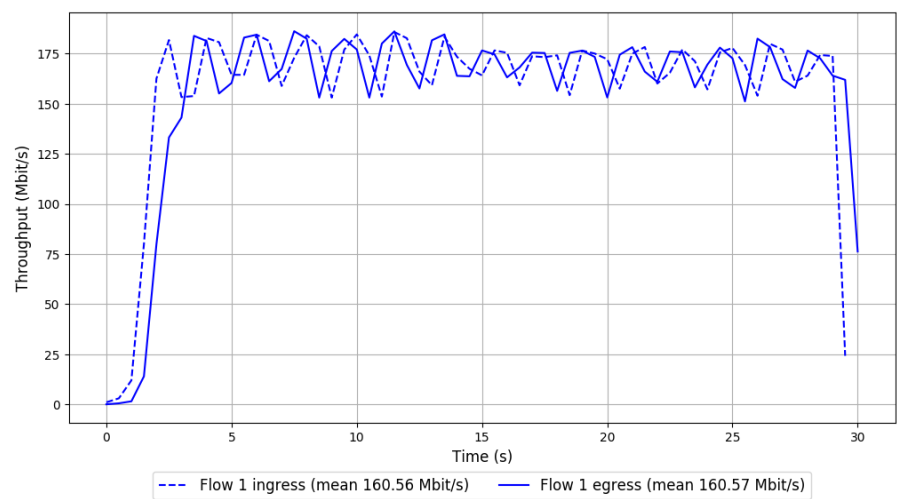
-- Flow 1:

Average throughput: 160.57 Mbit/s

95th percentile per-packet one-way delay: 110.800 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

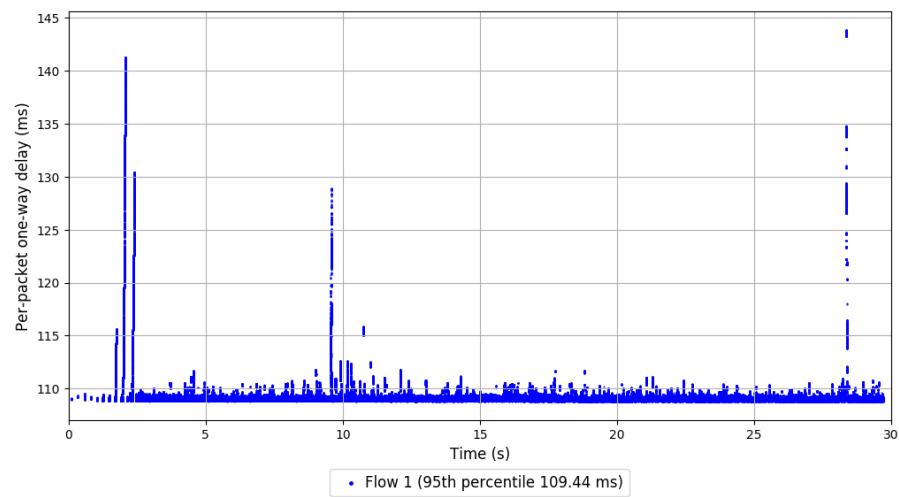
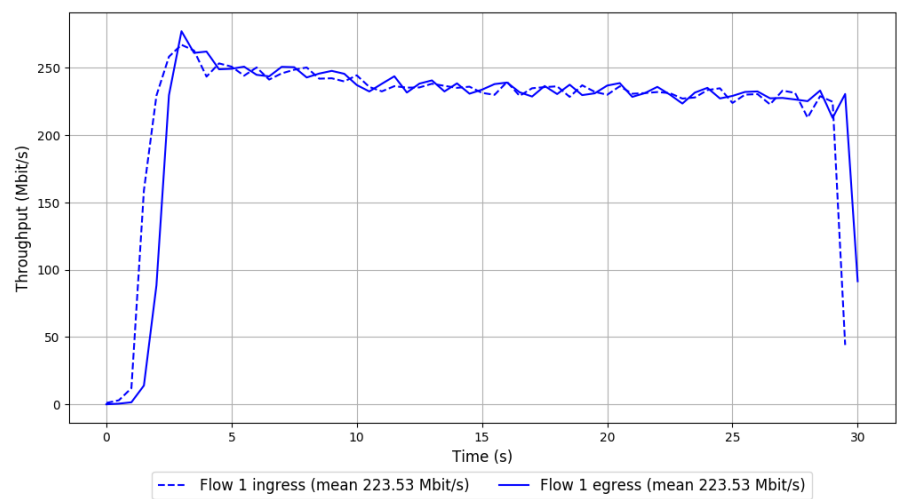


Run 3: Statistics of Indigo

Start at: 2019-02-05 02:00:09
End at: 2019-02-05 02:00:39
Local clock offset: 21.367 ms
Remote clock offset: 19.662 ms

Below is generated by plot.py at 2019-02-05 04:25:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 223.53 Mbit/s
95th percentile per-packet one-way delay: 109.445 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 223.53 Mbit/s
95th percentile per-packet one-way delay: 109.445 ms
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link

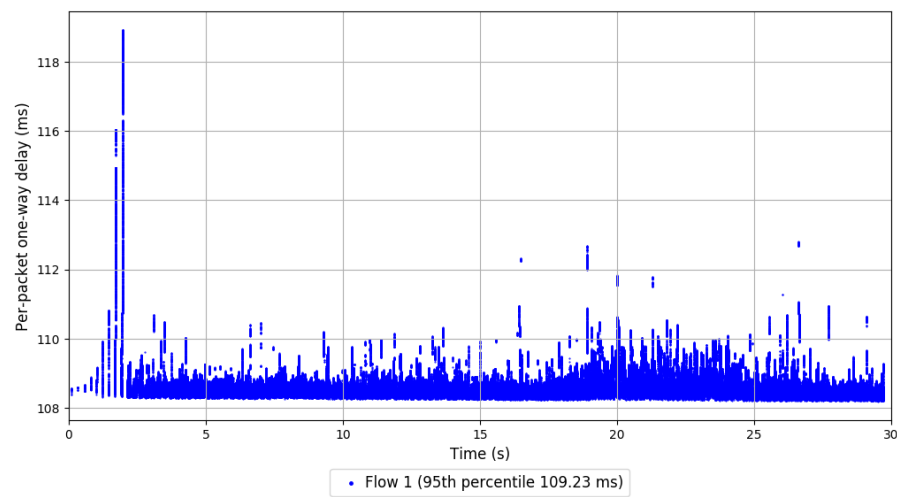
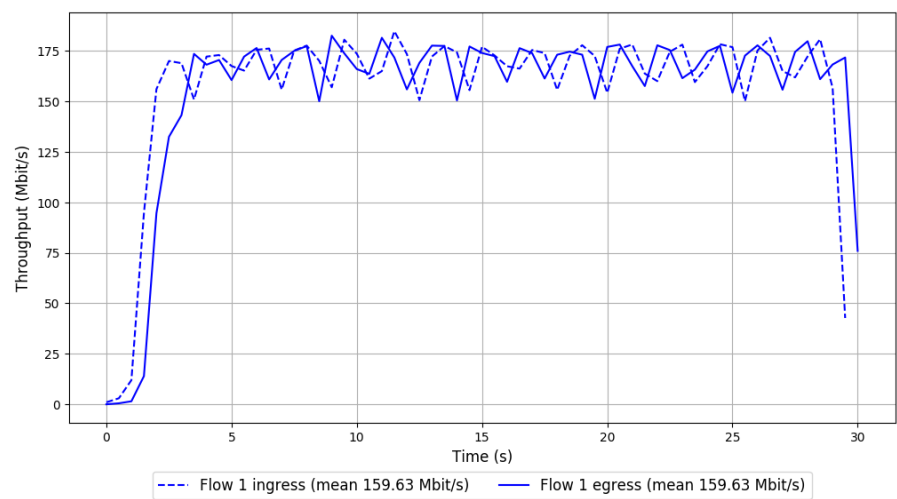


Run 4: Statistics of Indigo

Start at: 2019-02-05 02:32:18
End at: 2019-02-05 02:32:48
Local clock offset: 11.615 ms
Remote clock offset: 11.521 ms

Below is generated by plot.py at 2019-02-05 04:25:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 159.63 Mbit/s
95th percentile per-packet one-way delay: 109.234 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 159.63 Mbit/s
95th percentile per-packet one-way delay: 109.234 ms
Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-02-05 03:04:04

End at: 2019-02-05 03:04:34

Local clock offset: 3.564 ms

Remote clock offset: 6.919 ms

Below is generated by plot.py at 2019-02-05 04:25:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.50 Mbit/s

95th percentile per-packet one-way delay: 109.463 ms

Loss rate: 0.00%

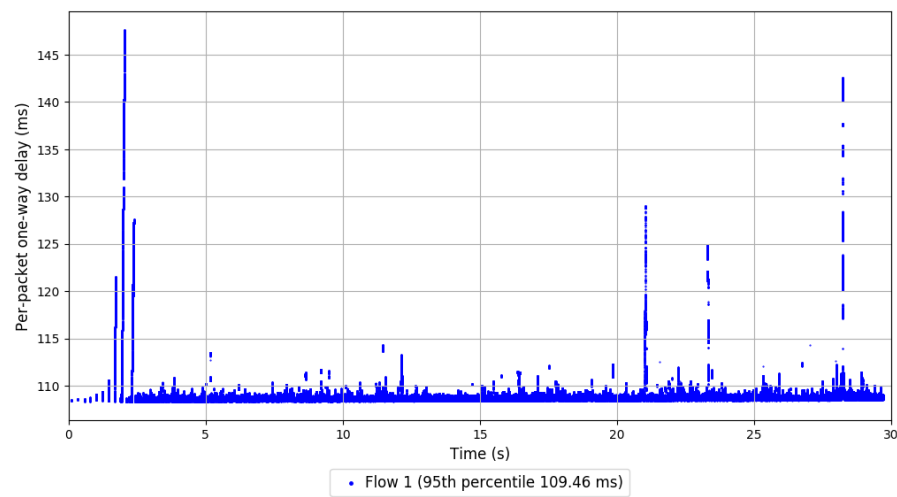
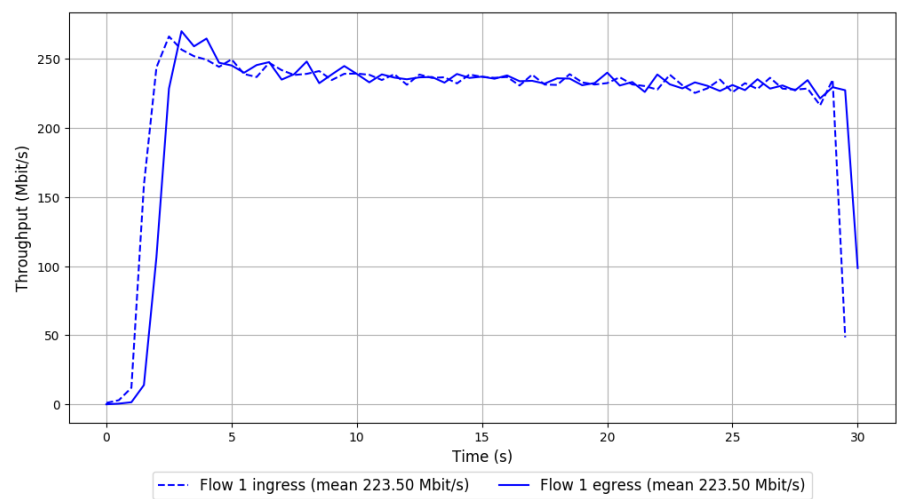
-- Flow 1:

Average throughput: 223.50 Mbit/s

95th percentile per-packet one-way delay: 109.463 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-02-05 00:50:20

End at: 2019-02-05 00:50:50

Local clock offset: 7.24 ms

Remote clock offset: 5.553 ms

Below is generated by plot.py at 2019-02-05 04:26:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 617.54 Mbit/s

95th percentile per-packet one-way delay: 144.095 ms

Loss rate: 0.02%

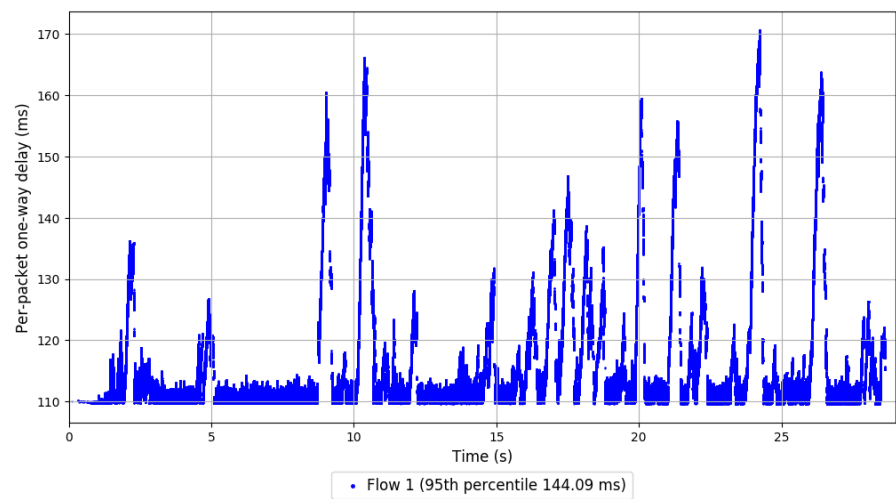
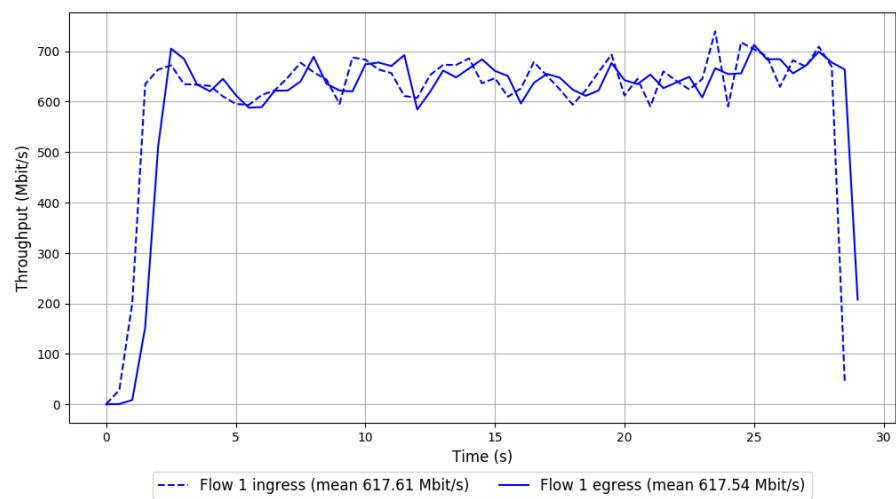
-- Flow 1:

Average throughput: 617.54 Mbit/s

95th percentile per-packet one-way delay: 144.095 ms

Loss rate: 0.02%

Run 1: Report of Indigo-MusesC3 — Data Link

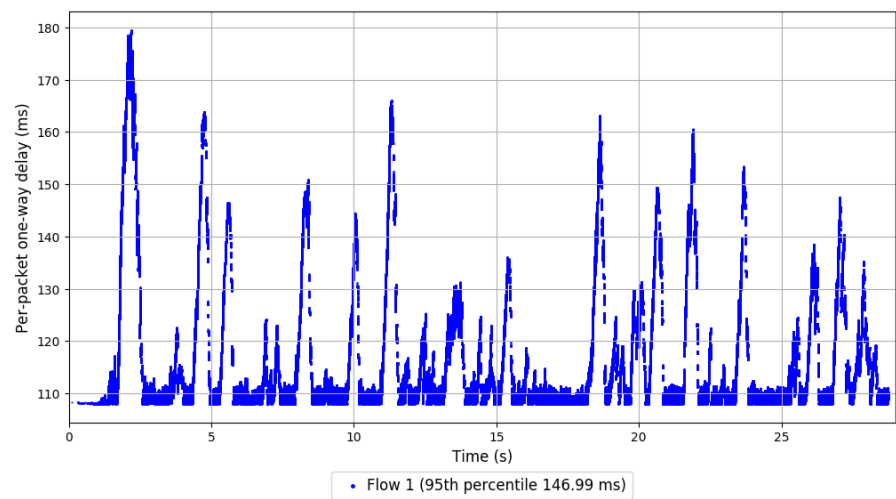
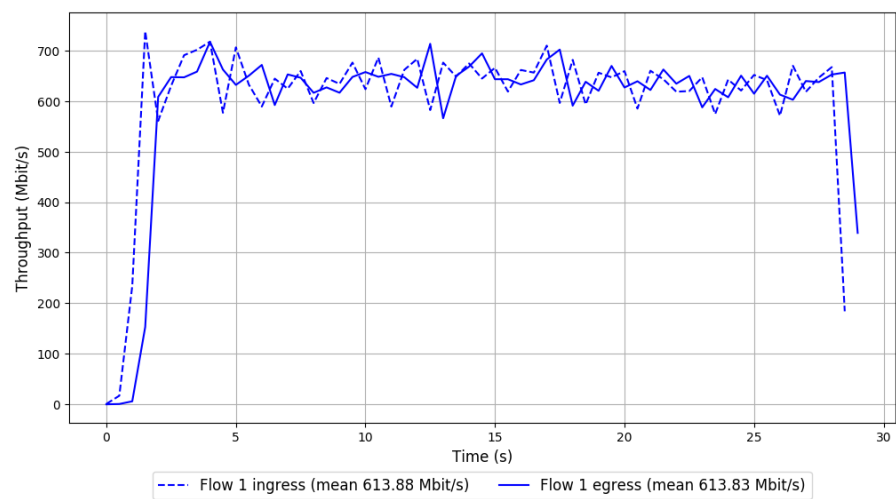


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-02-05 01:22:03
End at: 2019-02-05 01:22:33
Local clock offset: 21.37 ms
Remote clock offset: 20.082 ms

Below is generated by plot.py at 2019-02-05 04:31:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 613.83 Mbit/s
95th percentile per-packet one-way delay: 146.993 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 613.83 Mbit/s
95th percentile per-packet one-way delay: 146.993 ms
Loss rate: 0.01%

Run 2: Report of Indigo-MusesC3 — Data Link

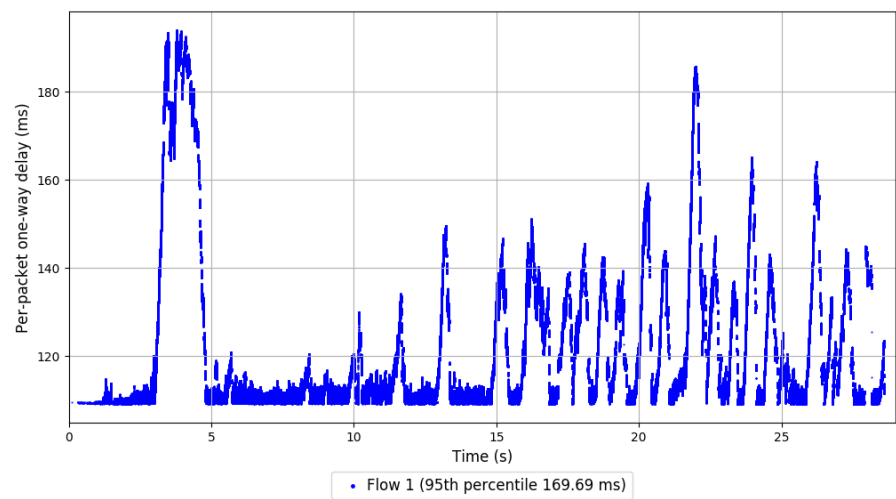
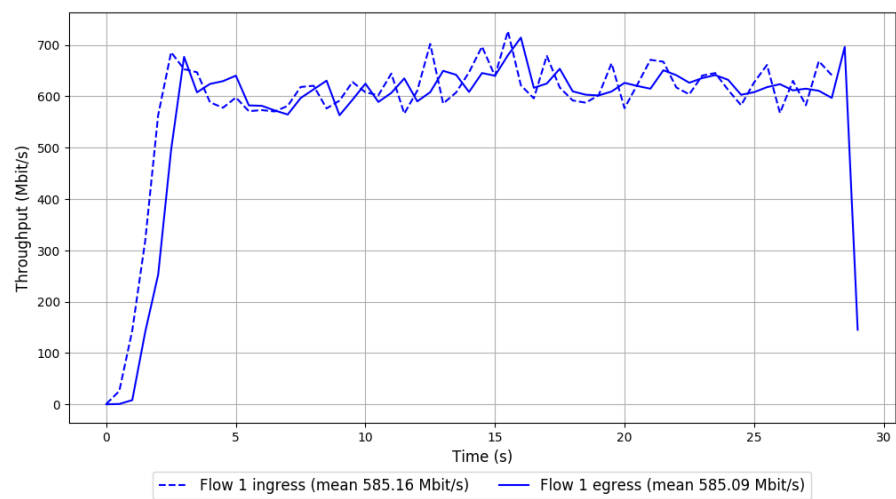


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-02-05 01:54:07
End at: 2019-02-05 01:54:37
Local clock offset: 35.31 ms
Remote clock offset: 33.283 ms

Below is generated by plot.py at 2019-02-05 04:31:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 585.09 Mbit/s
95th percentile per-packet one-way delay: 169.693 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 585.09 Mbit/s
95th percentile per-packet one-way delay: 169.693 ms
Loss rate: 0.01%

Run 3: Report of Indigo-MusesC3 — Data Link

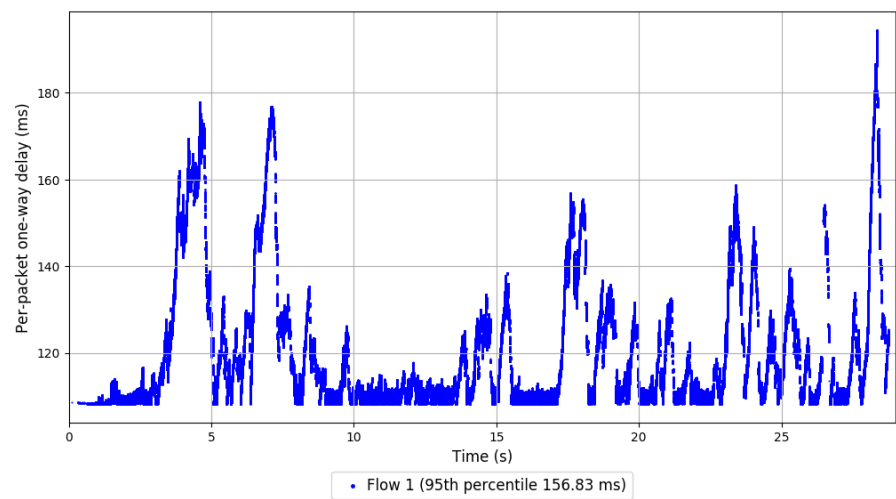
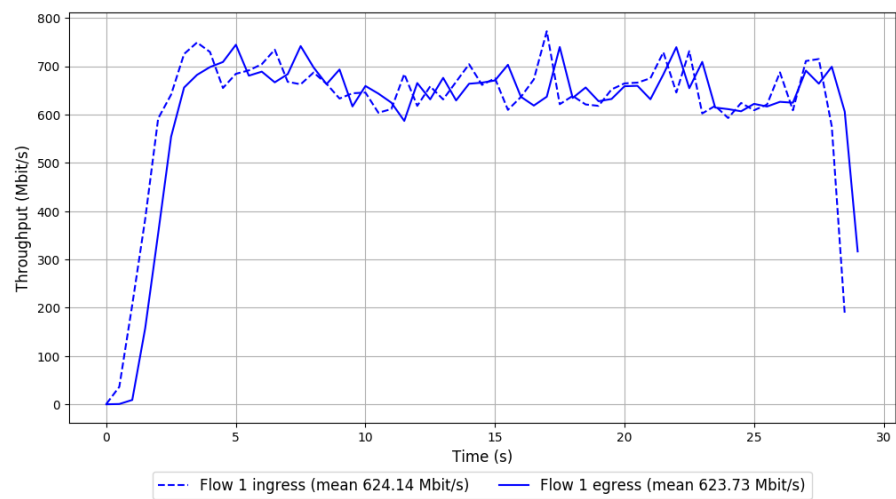


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-02-05 02:26:12
End at: 2019-02-05 02:26:42
Local clock offset: 18.609 ms
Remote clock offset: 16.675 ms

Below is generated by plot.py at 2019-02-05 04:34:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 623.73 Mbit/s
95th percentile per-packet one-way delay: 156.827 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 623.73 Mbit/s
95th percentile per-packet one-way delay: 156.827 ms
Loss rate: 0.07%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-02-05 02:58:09

End at: 2019-02-05 02:58:39

Local clock offset: 5.269 ms

Remote clock offset: 7.797 ms

Below is generated by plot.py at 2019-02-05 04:34:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 635.36 Mbit/s

95th percentile per-packet one-way delay: 160.796 ms

Loss rate: 0.29%

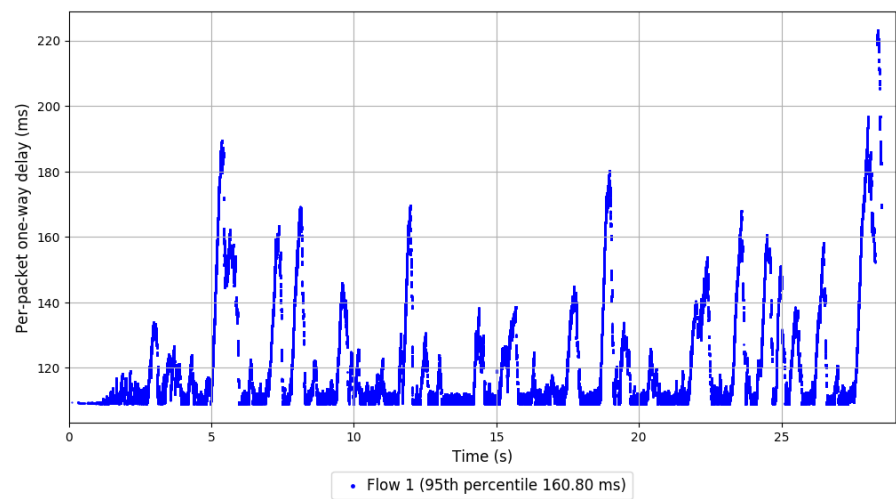
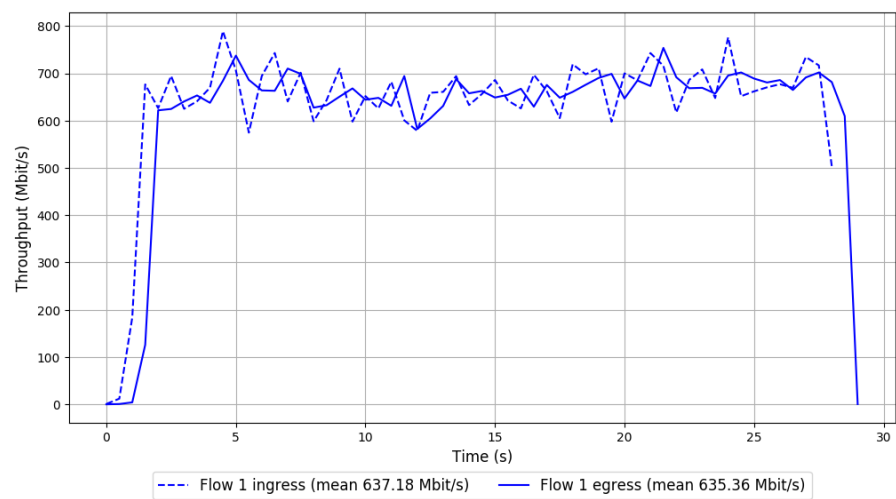
-- Flow 1:

Average throughput: 635.36 Mbit/s

95th percentile per-packet one-way delay: 160.796 ms

Loss rate: 0.29%

Run 5: Report of Indigo-MusesC3 — Data Link

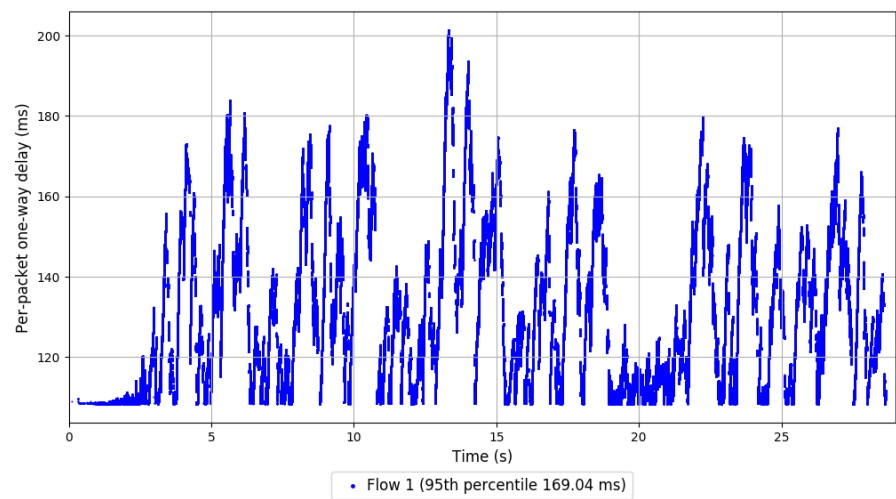
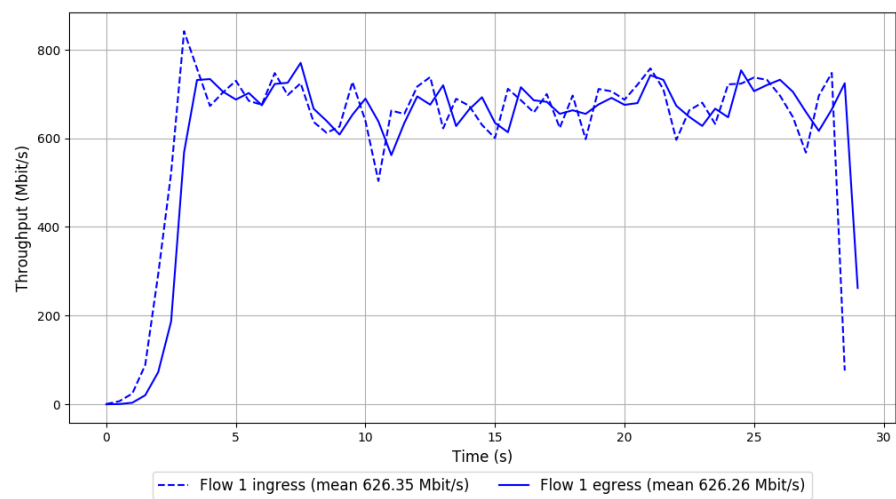


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-02-05 01:03:44
End at: 2019-02-05 01:04:14
Local clock offset: 14.393 ms
Remote clock offset: 13.579 ms

Below is generated by plot.py at 2019-02-05 04:35:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 626.26 Mbit/s
95th percentile per-packet one-way delay: 169.038 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 626.26 Mbit/s
95th percentile per-packet one-way delay: 169.038 ms
Loss rate: 0.01%

Run 1: Report of Indigo-MusesC5 — Data Link

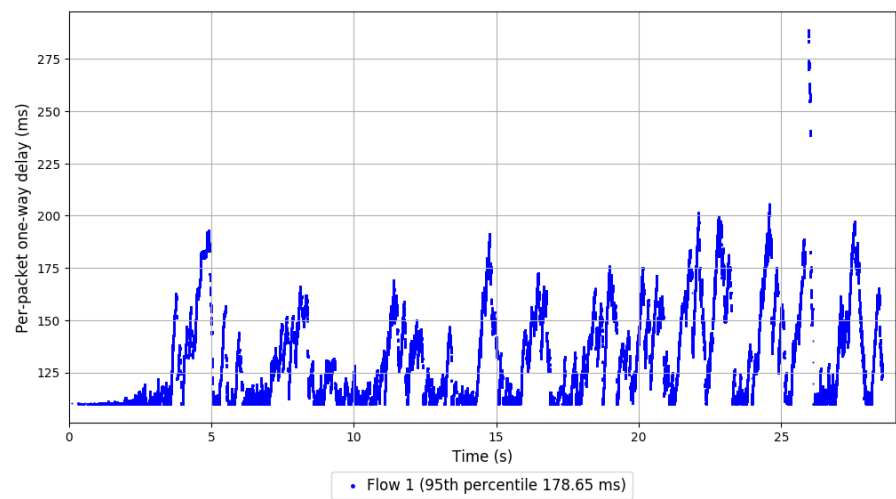
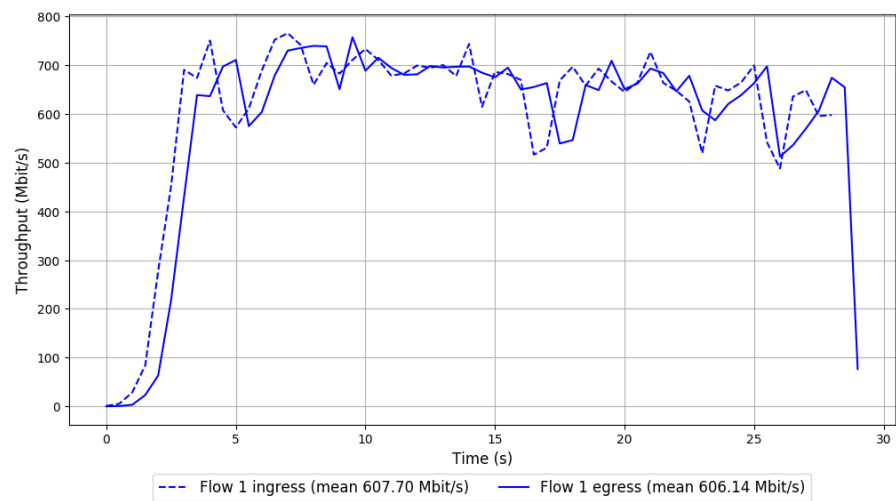


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-02-05 01:35:50
End at: 2019-02-05 01:36:20
Local clock offset: 20.029 ms
Remote clock offset: 20.123 ms

Below is generated by plot.py at 2019-02-05 04:36:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 606.14 Mbit/s
95th percentile per-packet one-way delay: 178.648 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 606.14 Mbit/s
95th percentile per-packet one-way delay: 178.648 ms
Loss rate: 0.21%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-02-05 02:08:07

End at: 2019-02-05 02:08:37

Local clock offset: 14.515 ms

Remote clock offset: 14.03 ms

Below is generated by plot.py at 2019-02-05 04:36:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 581.62 Mbit/s

95th percentile per-packet one-way delay: 177.416 ms

Loss rate: 0.01%

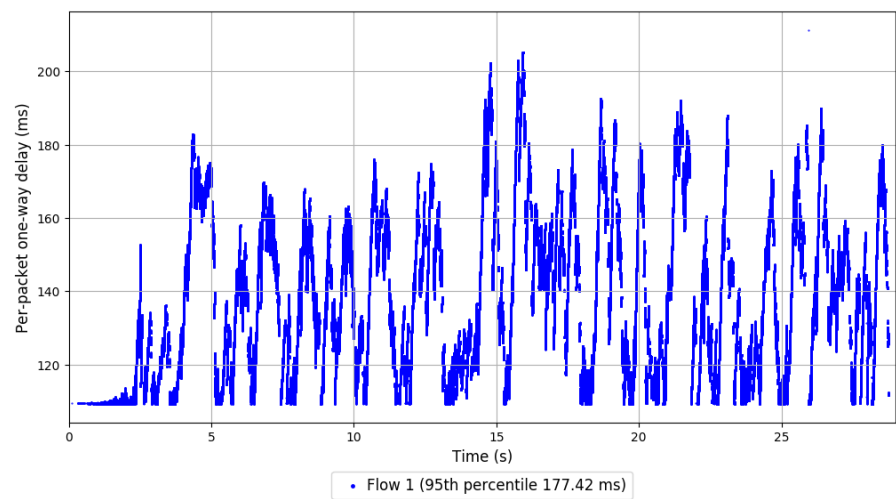
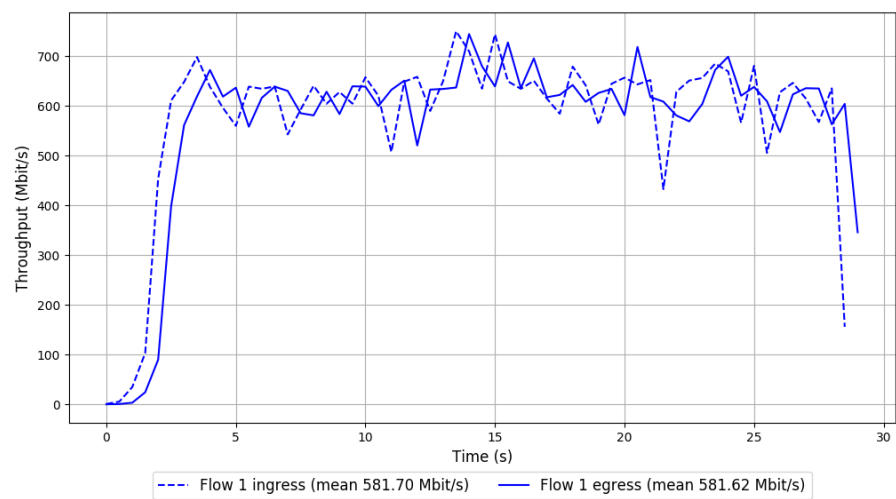
-- Flow 1:

Average throughput: 581.62 Mbit/s

95th percentile per-packet one-way delay: 177.416 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-02-05 02:40:03

End at: 2019-02-05 02:40:33

Local clock offset: 5.394 ms

Remote clock offset: 7.219 ms

Below is generated by plot.py at 2019-02-05 04:37:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 597.06 Mbit/s

95th percentile per-packet one-way delay: 174.670 ms

Loss rate: 0.05%

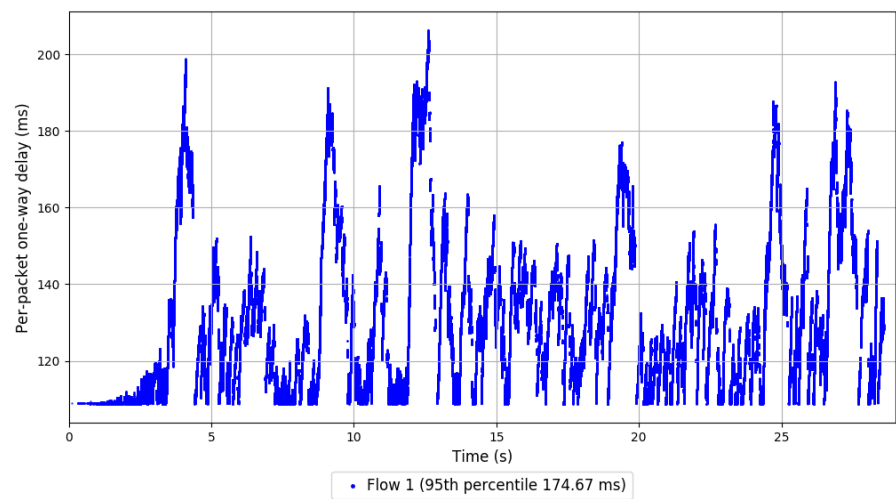
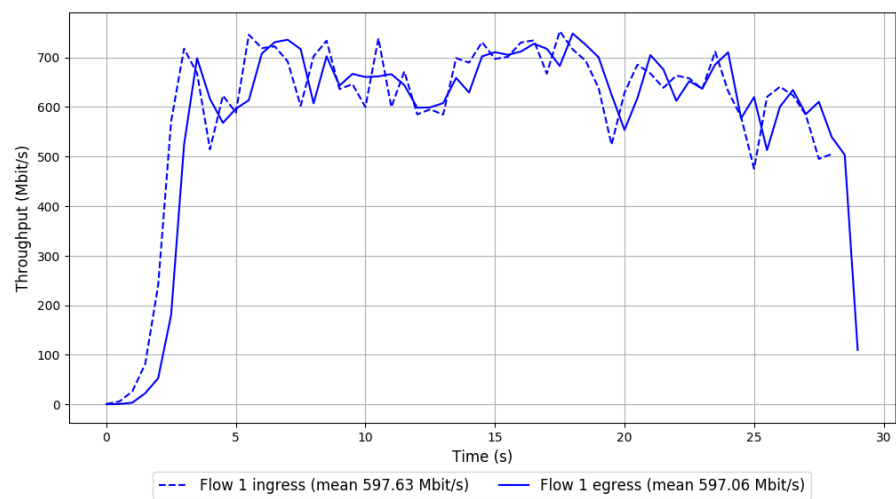
-- Flow 1:

Average throughput: 597.06 Mbit/s

95th percentile per-packet one-way delay: 174.670 ms

Loss rate: 0.05%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-02-05 03:11:59

End at: 2019-02-05 03:12:29

Local clock offset: 2.488 ms

Remote clock offset: 3.229 ms

Below is generated by plot.py at 2019-02-05 04:41:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 614.96 Mbit/s

95th percentile per-packet one-way delay: 160.122 ms

Loss rate: 0.01%

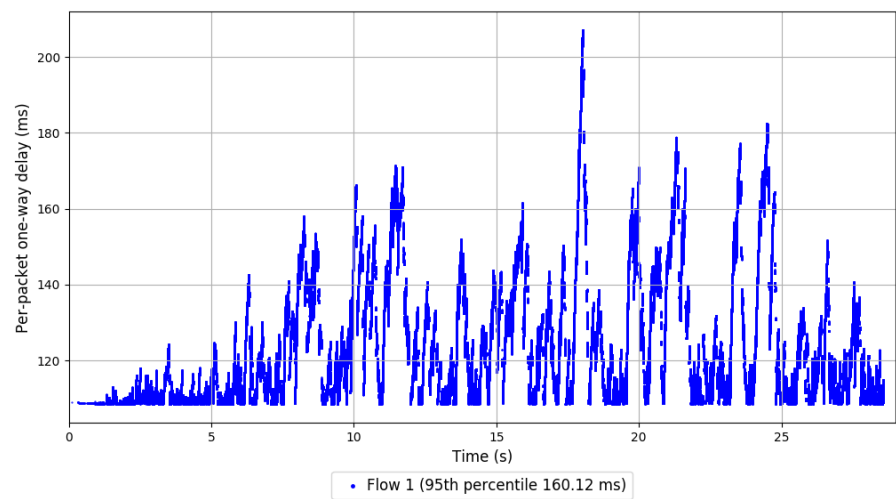
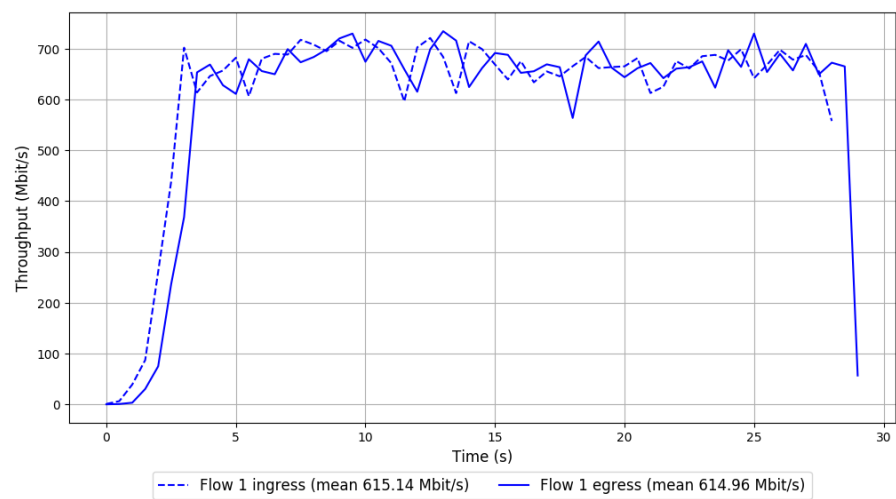
-- Flow 1:

Average throughput: 614.96 Mbit/s

95th percentile per-packet one-way delay: 160.122 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

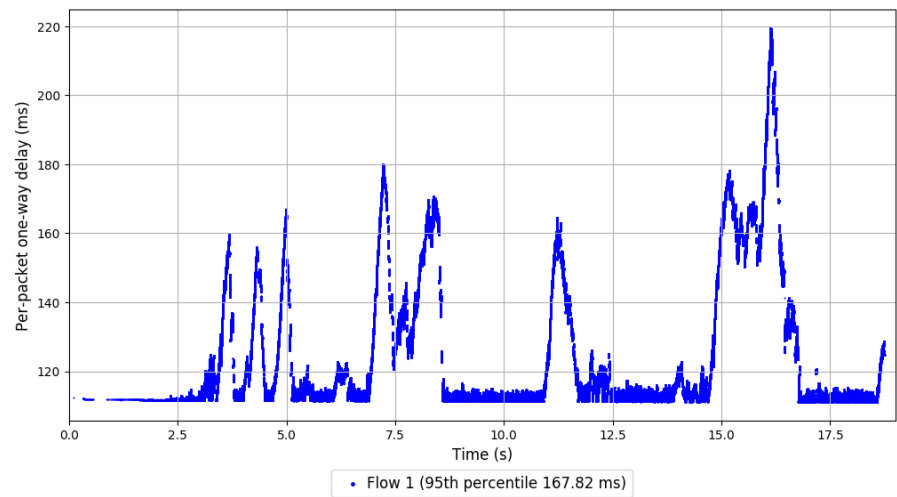
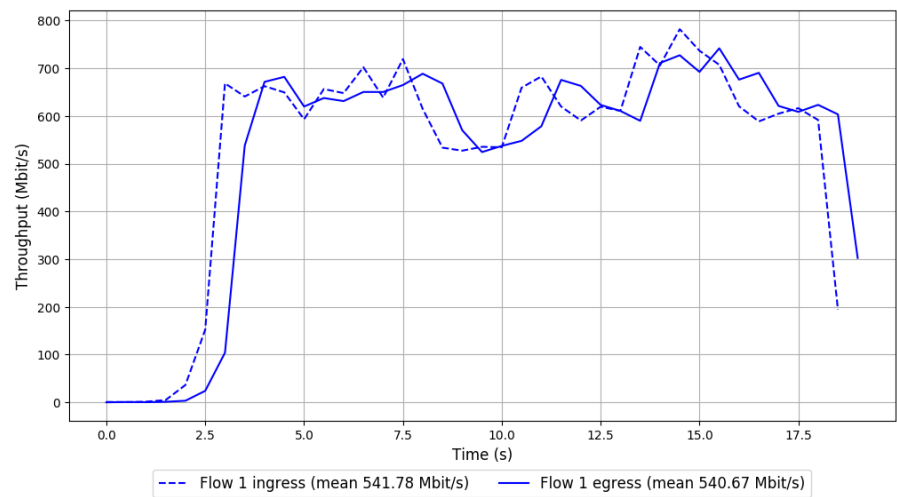
Start at: 2019-02-05 00:47:21

End at: 2019-02-05 00:47:51

Local clock offset: 1.7 ms

Remote clock offset: 4.321 ms

Run 1: Report of Indigo-MusesD — Data Link

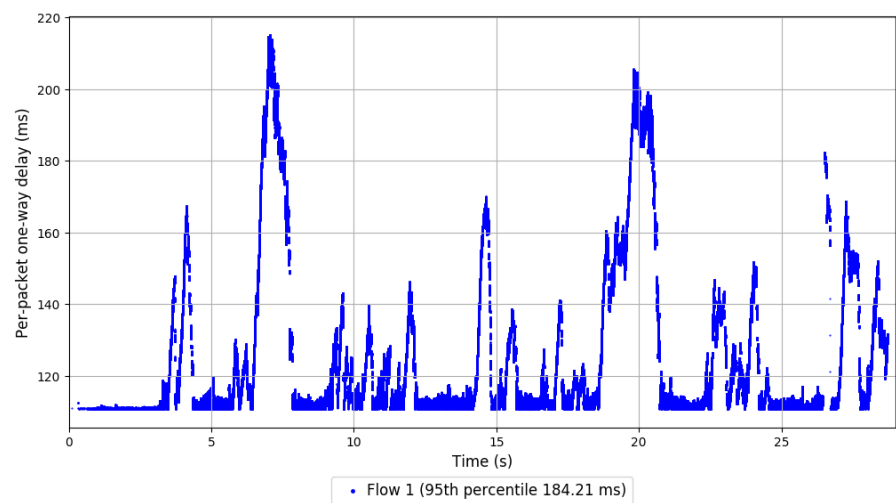
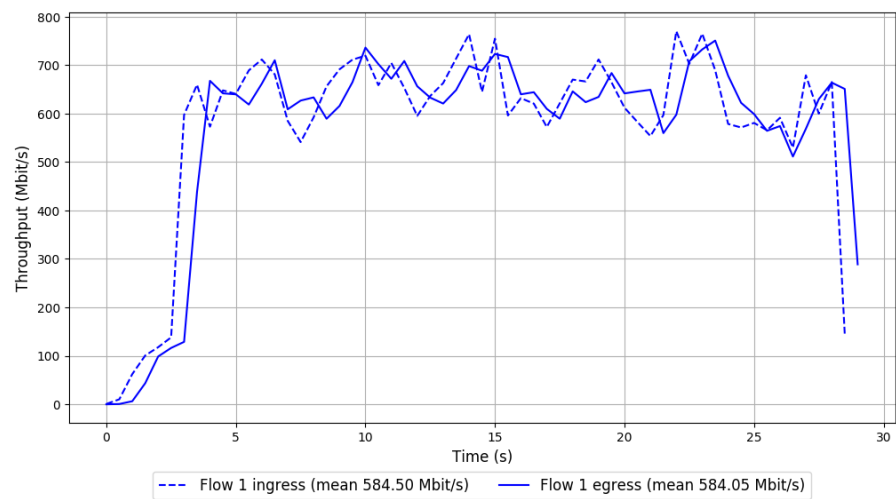


Run 2: Statistics of Indigo-MusesD

Start at: 2019-02-05 01:18:53
End at: 2019-02-05 01:19:23
Local clock offset: 21.758 ms
Remote clock offset: 22.749 ms

Below is generated by plot.py at 2019-02-05 04:44:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 584.05 Mbit/s
95th percentile per-packet one-way delay: 184.207 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 584.05 Mbit/s
95th percentile per-packet one-way delay: 184.207 ms
Loss rate: 0.08%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-02-05 01:50:56

End at: 2019-02-05 01:51:26

Local clock offset: 33.028 ms

Remote clock offset: 32.071 ms

Below is generated by plot.py at 2019-02-05 04:45:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 604.56 Mbit/s

95th percentile per-packet one-way delay: 174.966 ms

Loss rate: 0.03%

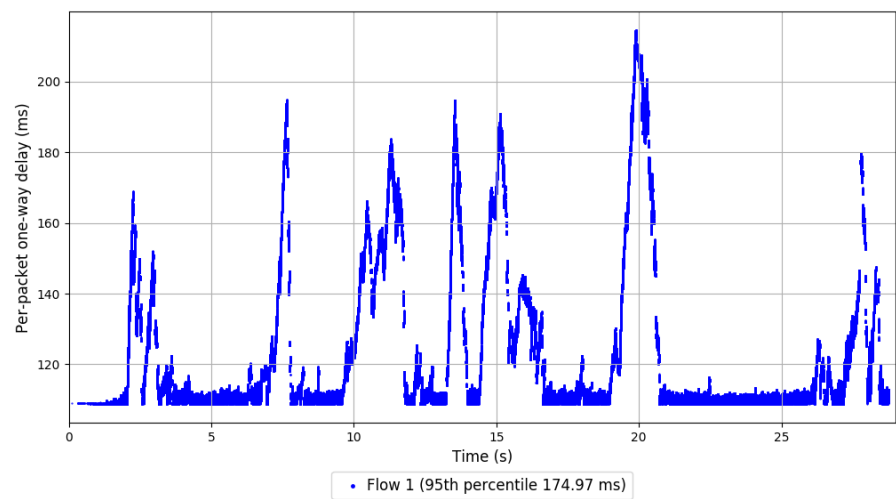
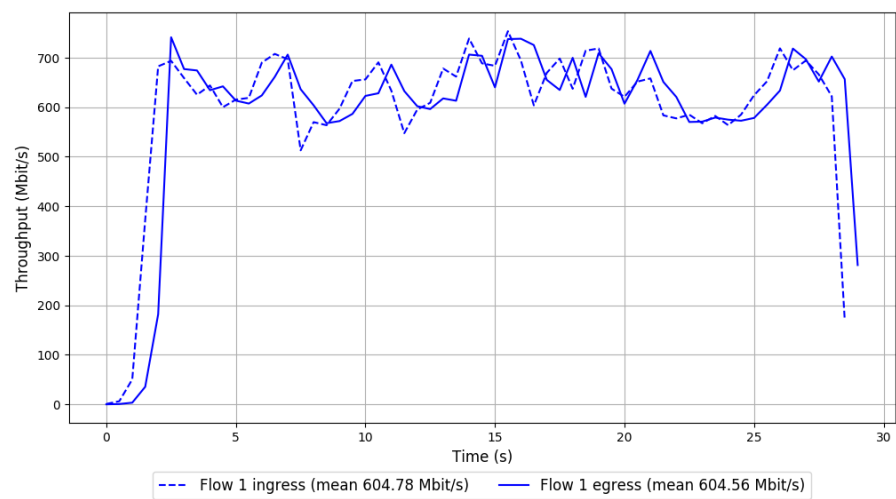
-- Flow 1:

Average throughput: 604.56 Mbit/s

95th percentile per-packet one-way delay: 174.966 ms

Loss rate: 0.03%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-02-05 02:23:06

End at: 2019-02-05 02:23:36

Local clock offset: 16.122 ms

Remote clock offset: 15.918 ms

Below is generated by plot.py at 2019-02-05 04:45:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 528.49 Mbit/s

95th percentile per-packet one-way delay: 194.374 ms

Loss rate: 0.22%

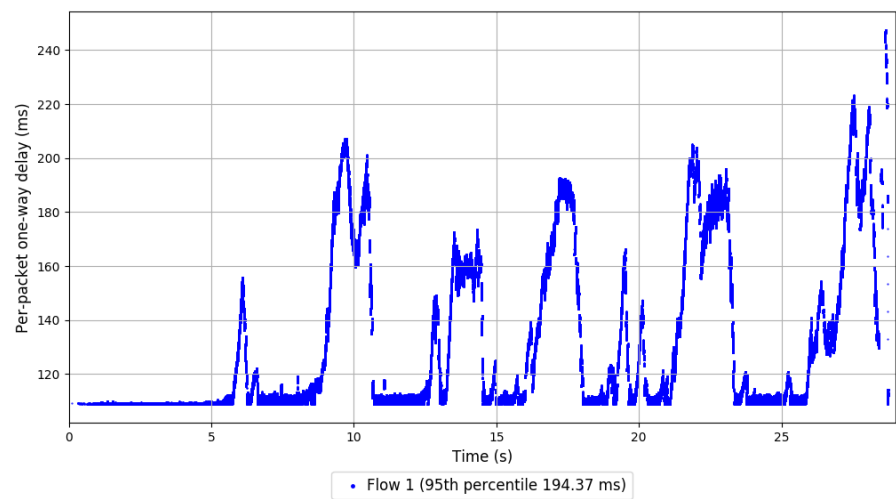
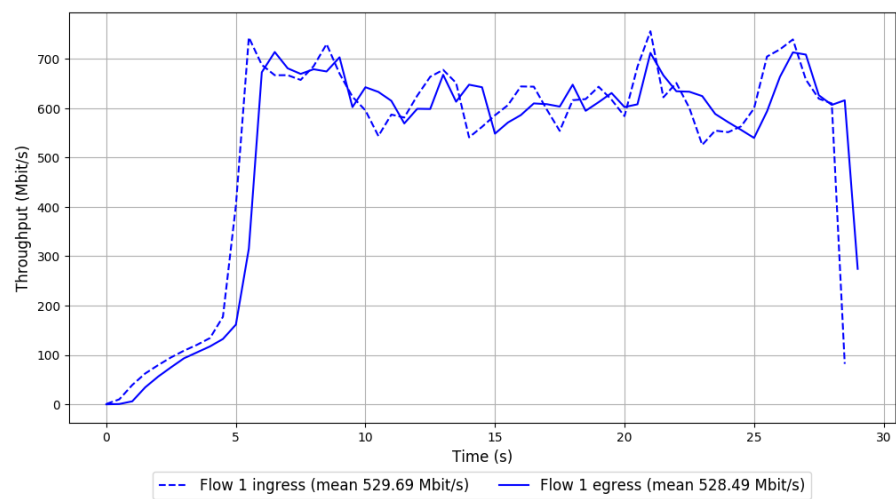
-- Flow 1:

Average throughput: 528.49 Mbit/s

95th percentile per-packet one-way delay: 194.374 ms

Loss rate: 0.22%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-02-05 02:55:02

End at: 2019-02-05 02:55:32

Local clock offset: 3.966 ms

Remote clock offset: 7.389 ms

Below is generated by plot.py at 2019-02-05 04:45:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 520.06 Mbit/s

95th percentile per-packet one-way delay: 139.243 ms

Loss rate: 0.09%

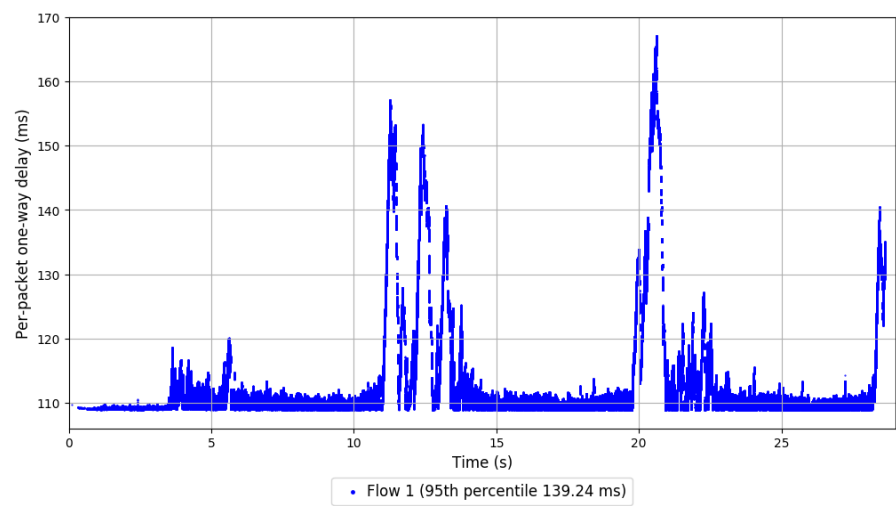
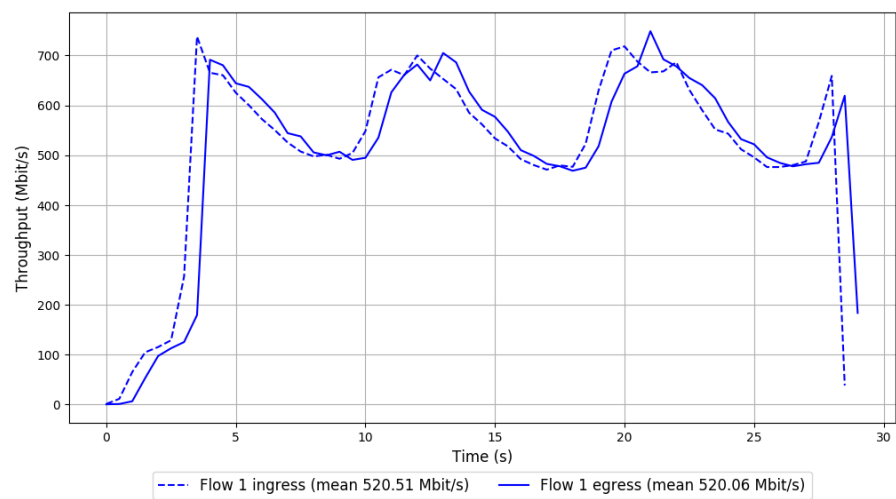
-- Flow 1:

Average throughput: 520.06 Mbit/s

95th percentile per-packet one-way delay: 139.243 ms

Loss rate: 0.09%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-02-05 01:08:17

End at: 2019-02-05 01:08:47

Local clock offset: 12.298 ms

Remote clock offset: 11.603 ms

Below is generated by plot.py at 2019-02-05 04:48:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 643.65 Mbit/s

95th percentile per-packet one-way delay: 201.477 ms

Loss rate: 0.89%

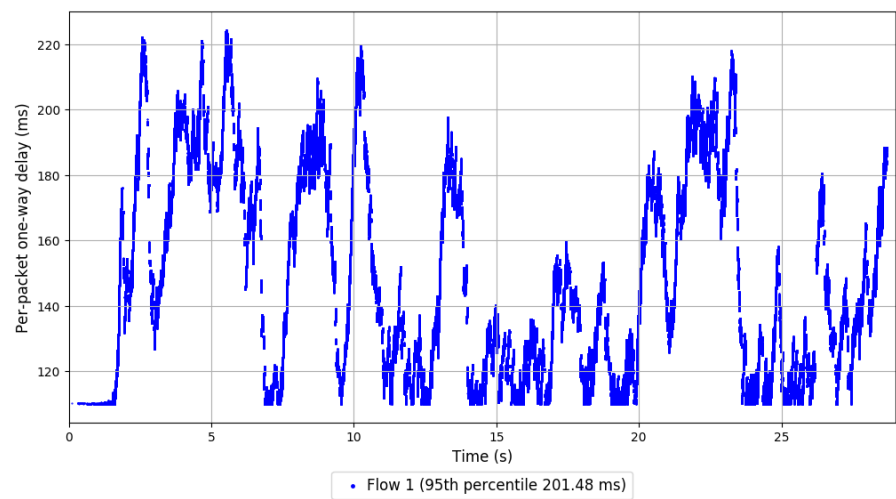
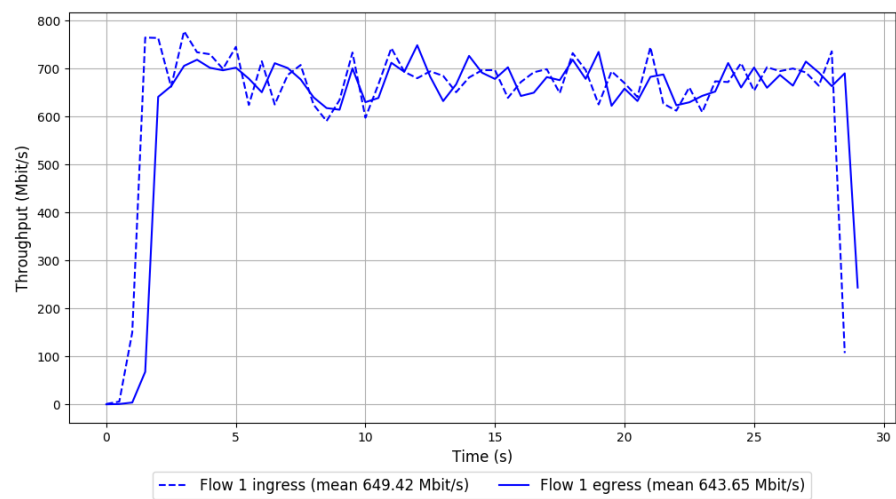
-- Flow 1:

Average throughput: 643.65 Mbit/s

95th percentile per-packet one-way delay: 201.477 ms

Loss rate: 0.89%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-02-05 01:40:20

End at: 2019-02-05 01:40:50

Local clock offset: 23.767 ms

Remote clock offset: 23.24 ms

Below is generated by plot.py at 2019-02-05 04:48:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 635.21 Mbit/s

95th percentile per-packet one-way delay: 197.280 ms

Loss rate: 0.03%

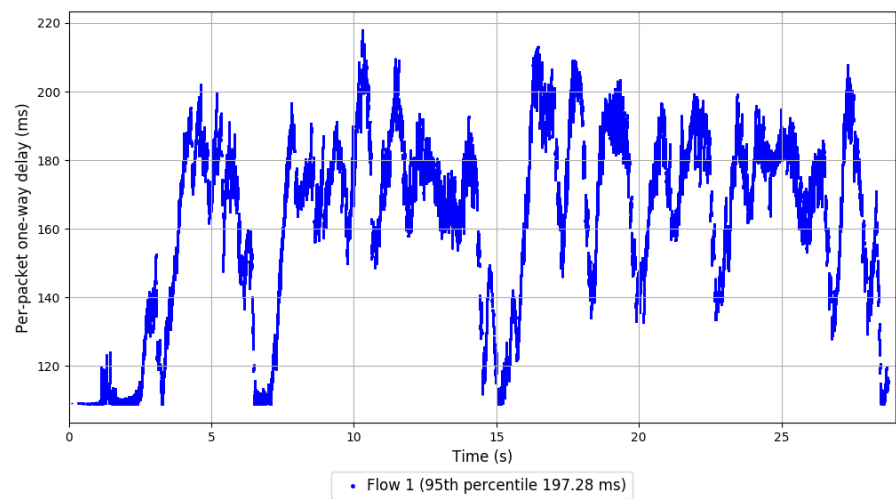
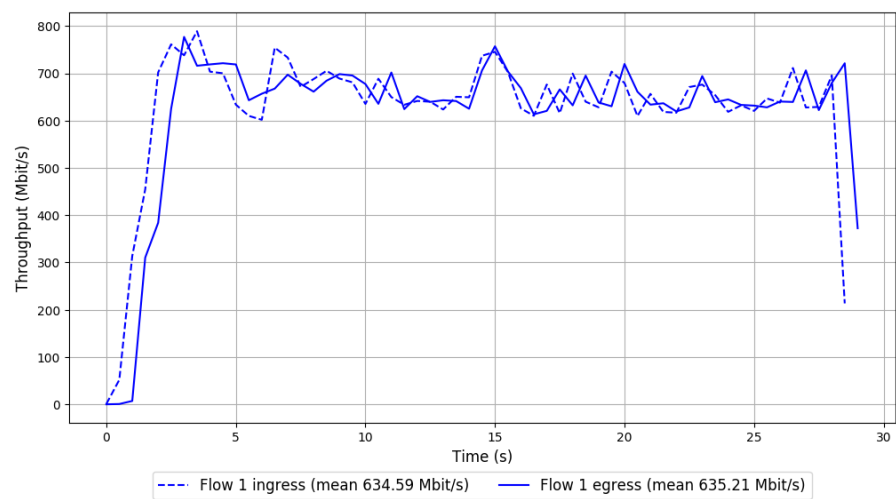
-- Flow 1:

Average throughput: 635.21 Mbit/s

95th percentile per-packet one-way delay: 197.280 ms

Loss rate: 0.03%

Run 2: Report of Indigo-MusesT — Data Link

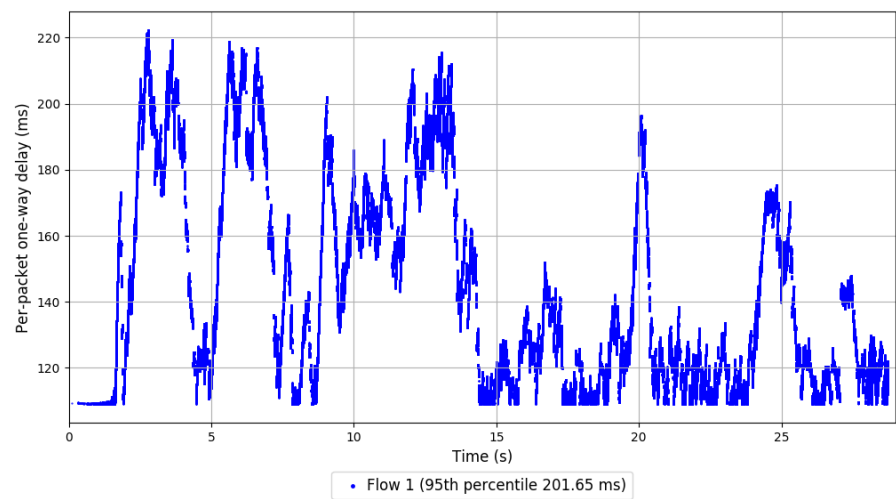
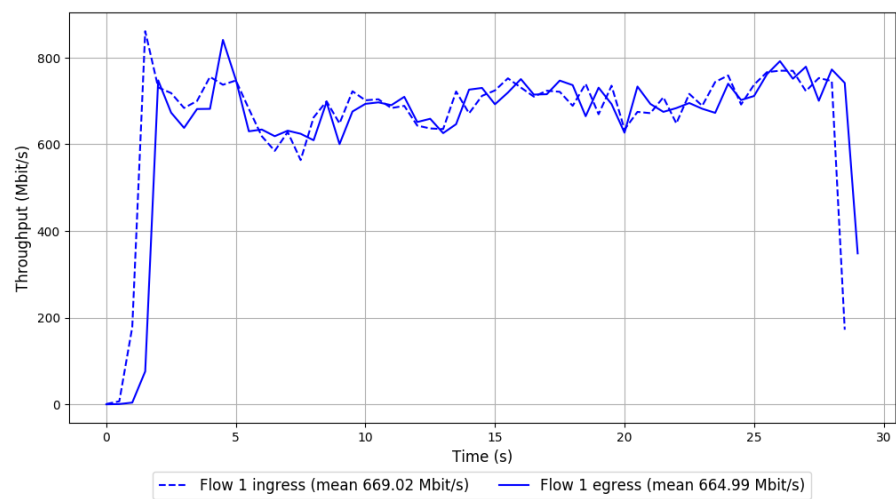


Run 3: Statistics of Indigo-MusesT

Start at: 2019-02-05 02:12:39
End at: 2019-02-05 02:13:09
Local clock offset: 13.363 ms
Remote clock offset: 13.297 ms

Below is generated by plot.py at 2019-02-05 04:49:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 664.99 Mbit/s
95th percentile per-packet one-way delay: 201.650 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 664.99 Mbit/s
95th percentile per-packet one-way delay: 201.650 ms
Loss rate: 0.60%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-02-05 02:44:32

End at: 2019-02-05 02:45:02

Local clock offset: 5.261 ms

Remote clock offset: 6.561 ms

Below is generated by plot.py at 2019-02-05 04:52:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 636.41 Mbit/s

95th percentile per-packet one-way delay: 200.010 ms

Loss rate: 0.58%

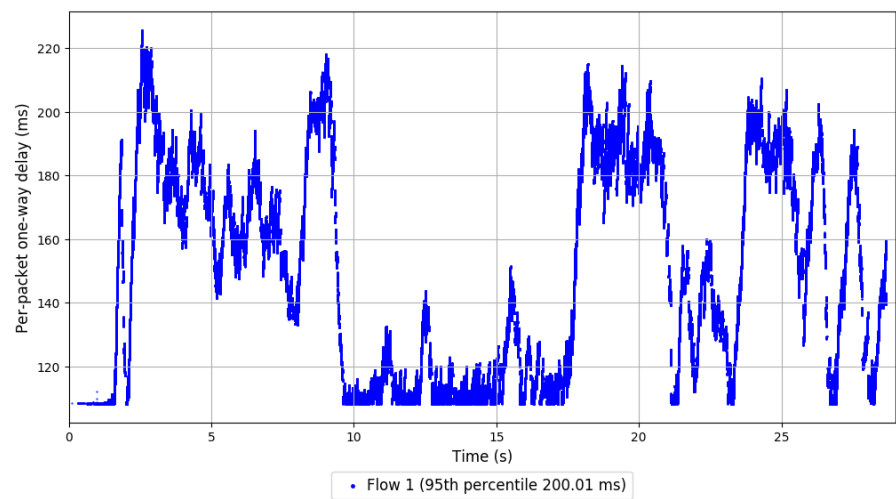
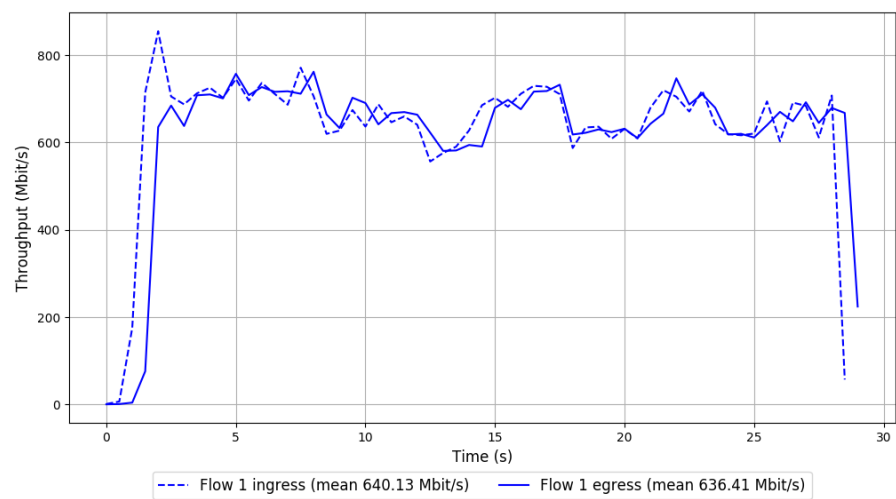
-- Flow 1:

Average throughput: 636.41 Mbit/s

95th percentile per-packet one-way delay: 200.010 ms

Loss rate: 0.58%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-02-05 03:16:34

End at: 2019-02-05 03:17:04

Local clock offset: 0.948 ms

Remote clock offset: 2.428 ms

Below is generated by plot.py at 2019-02-05 04:55:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 651.78 Mbit/s

95th percentile per-packet one-way delay: 199.479 ms

Loss rate: 0.50%

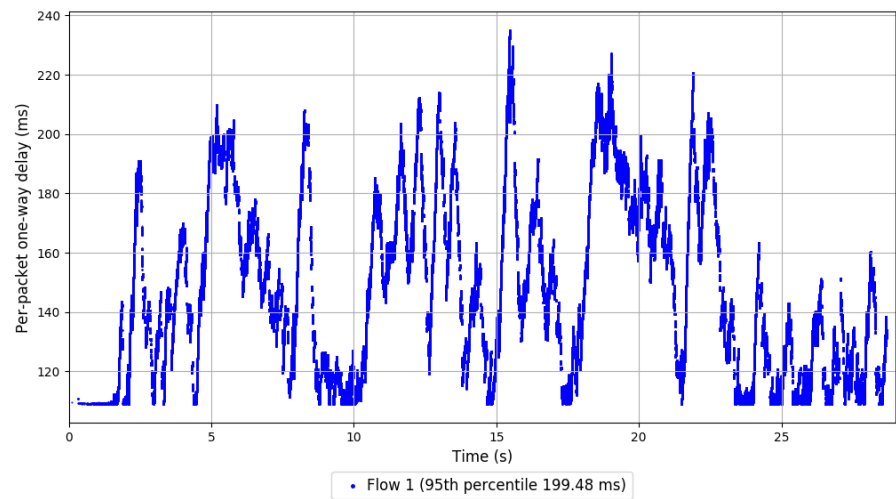
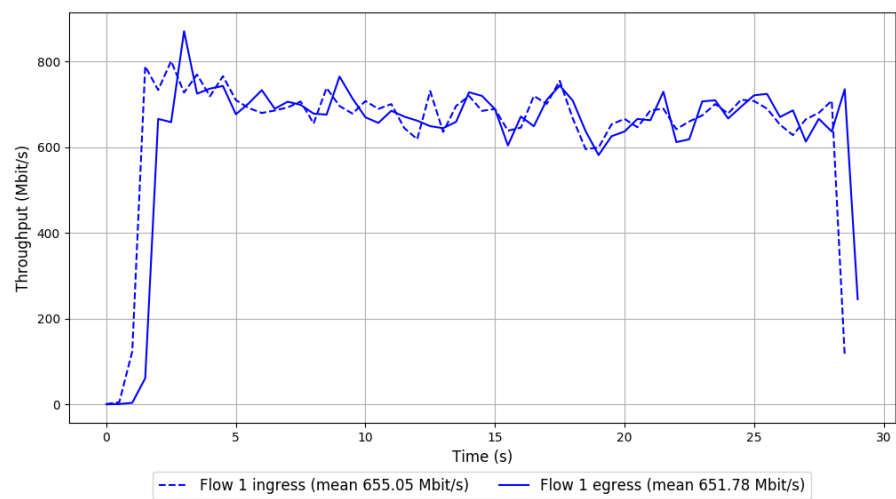
-- Flow 1:

Average throughput: 651.78 Mbit/s

95th percentile per-packet one-way delay: 199.479 ms

Loss rate: 0.50%

Run 5: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2019-02-05 00:55:07

End at: 2019-02-05 00:55:37

Local clock offset: 8.671 ms

Remote clock offset: 8.123 ms

Below is generated by plot.py at 2019-02-05 04:55:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 109.559 ms

Loss rate: 0.00%

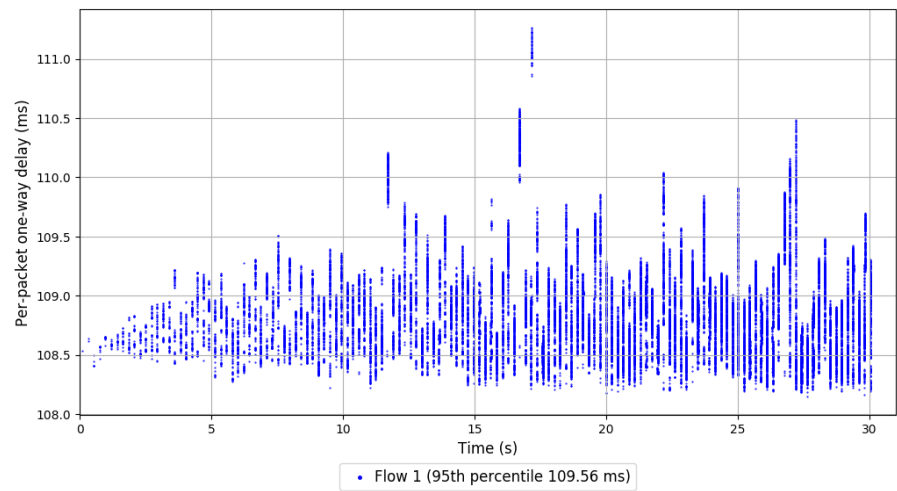
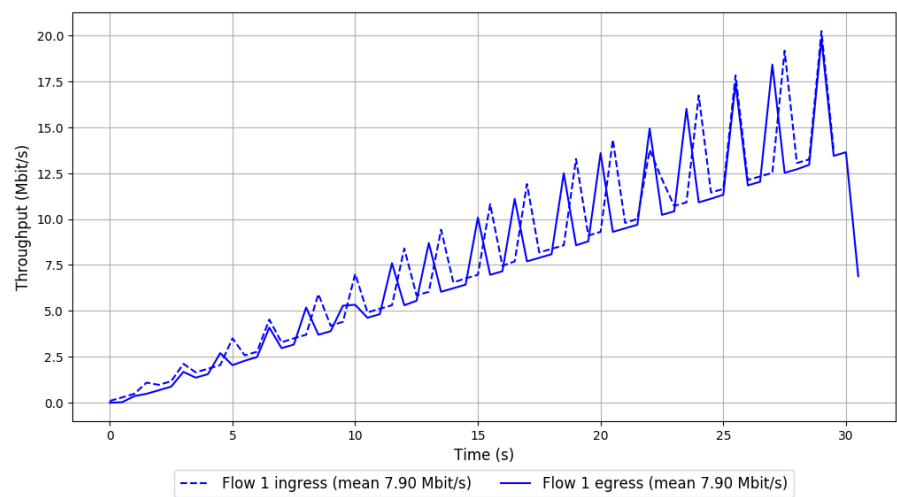
-- Flow 1:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 109.559 ms

Loss rate: 0.00%

Run 1: Report of LEDBAT — Data Link

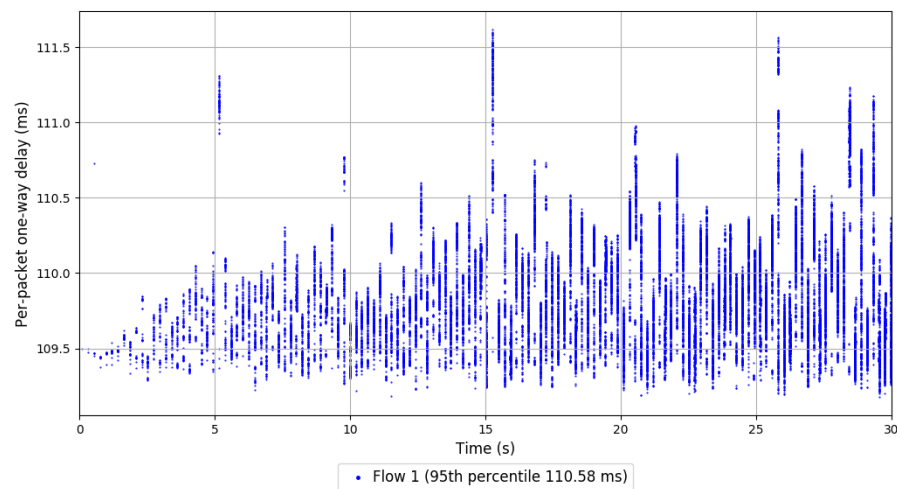
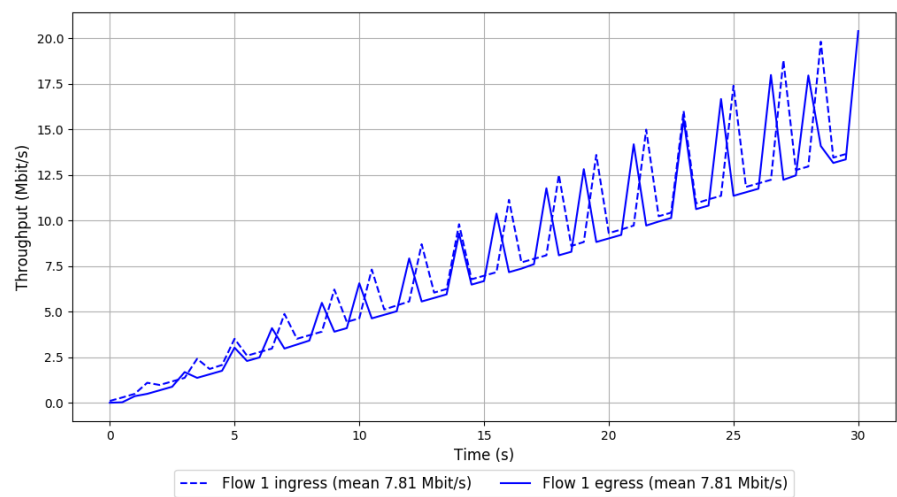


Run 2: Statistics of LEDBAT

Start at: 2019-02-05 01:26:57
End at: 2019-02-05 01:27:27
Local clock offset: 18.32 ms
Remote clock offset: 17.441 ms

Below is generated by plot.py at 2019-02-05 04:55:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 110.579 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 110.579 ms
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

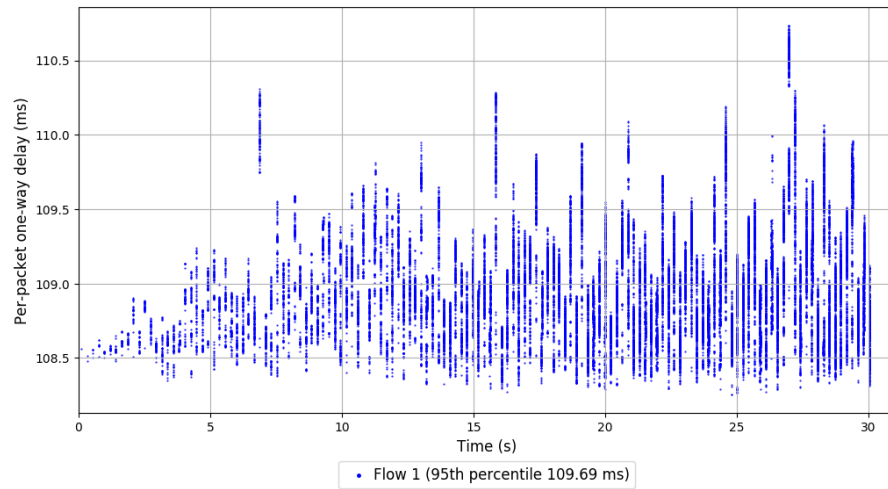
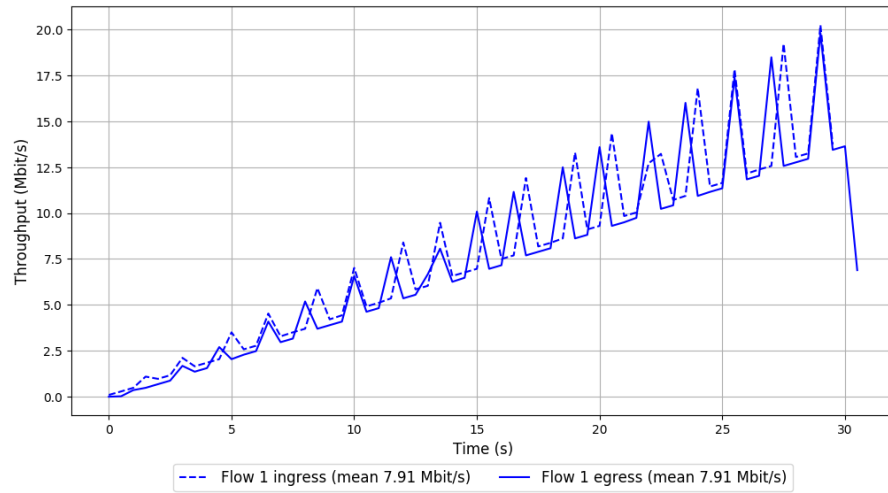


Run 3: Statistics of LEDBAT

Start at: 2019-02-05 01:58:58
End at: 2019-02-05 01:59:28
Local clock offset: 23.591 ms
Remote clock offset: 21.523 ms

Below is generated by plot.py at 2019-02-05 04:55:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.91 Mbit/s
95th percentile per-packet one-way delay: 109.695 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.91 Mbit/s
95th percentile per-packet one-way delay: 109.695 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-02-05 02:31:07

End at: 2019-02-05 02:31:37

Local clock offset: 14.869 ms

Remote clock offset: 12.97 ms

Below is generated by plot.py at 2019-02-05 04:55:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 108.210 ms

Loss rate: 0.00%

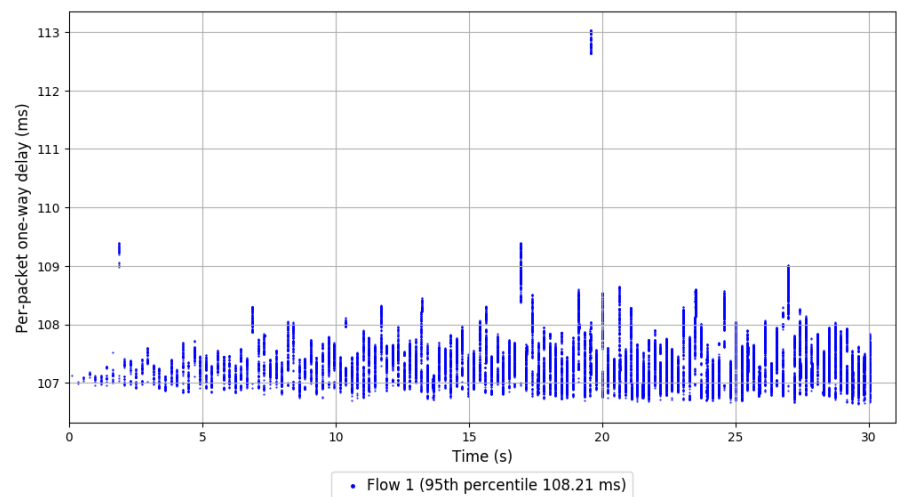
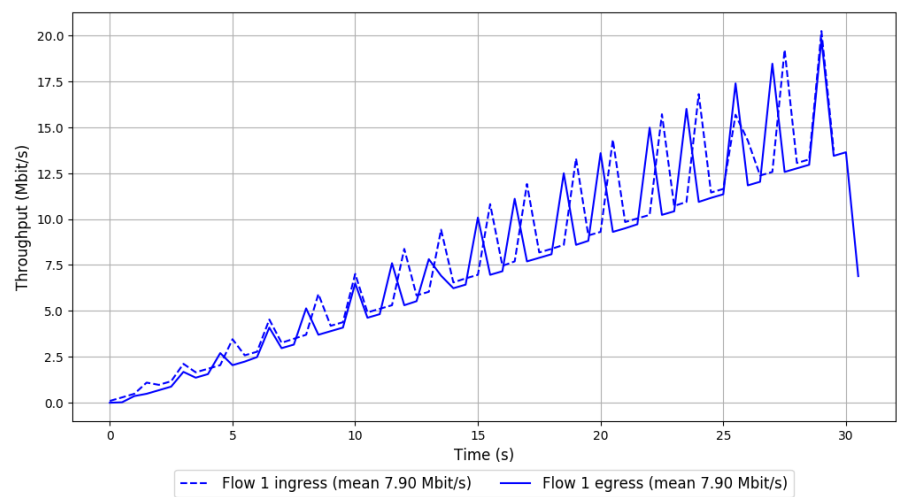
-- Flow 1:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 108.210 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-02-05 03:02:52

End at: 2019-02-05 03:03:23

Local clock offset: 3.678 ms

Remote clock offset: 7.711 ms

Below is generated by plot.py at 2019-02-05 04:55:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 111.024 ms

Loss rate: 0.00%

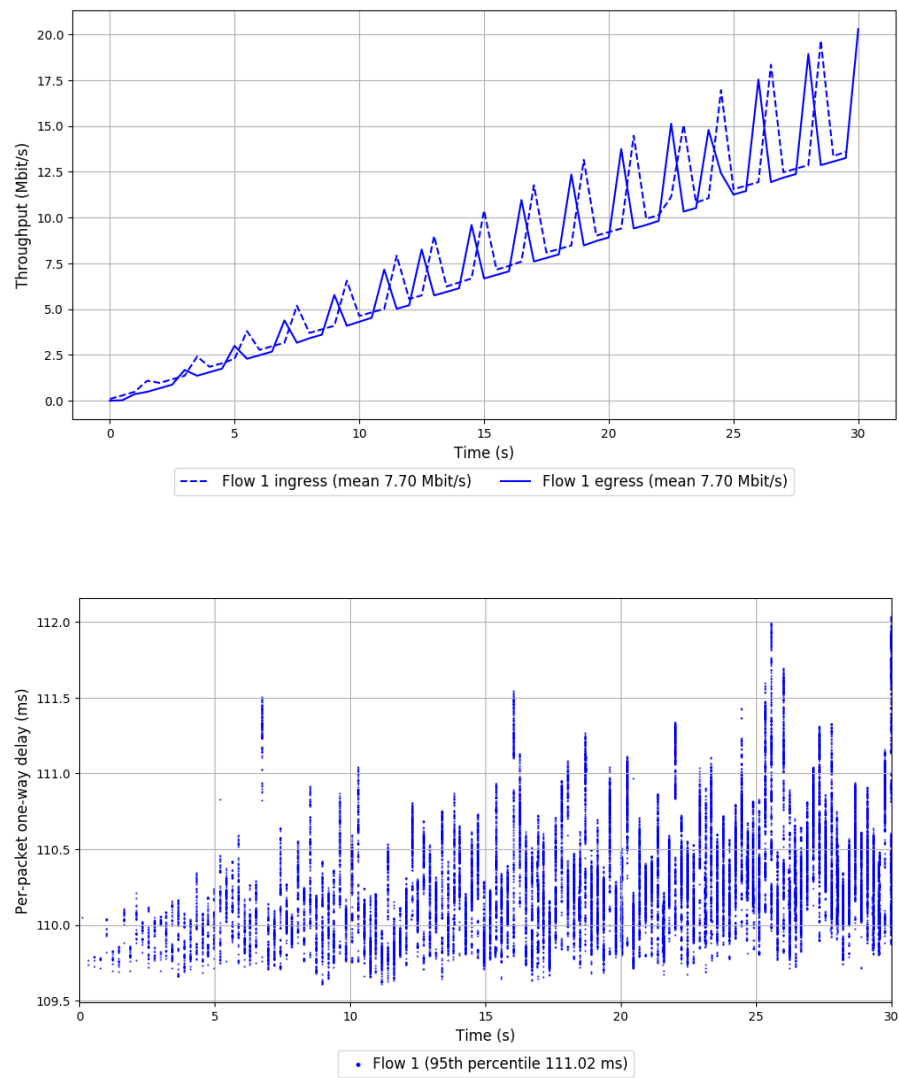
-- Flow 1:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 111.024 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-02-05 00:59:18

End at: 2019-02-05 00:59:49

Local clock offset: 10.343 ms

Remote clock offset: 10.602 ms

Below is generated by plot.py at 2019-02-05 04:59:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 393.03 Mbit/s

95th percentile per-packet one-way delay: 178.364 ms

Loss rate: 0.78%

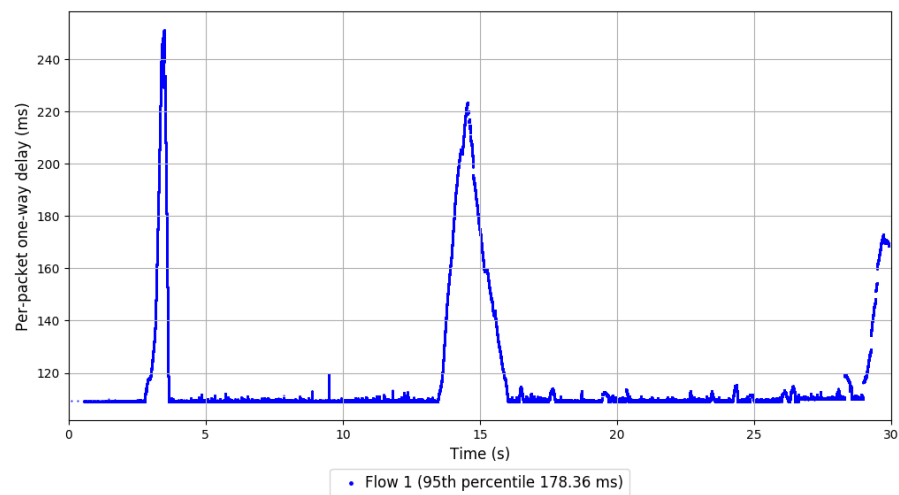
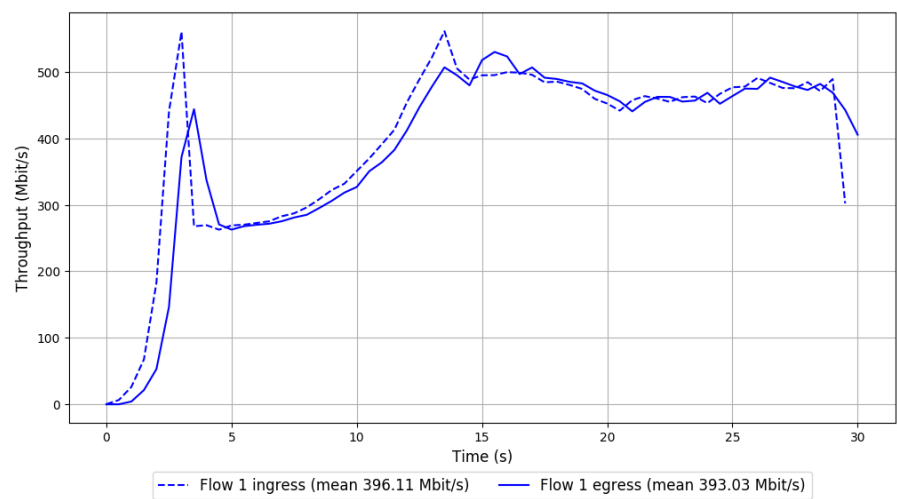
-- Flow 1:

Average throughput: 393.03 Mbit/s

95th percentile per-packet one-way delay: 178.364 ms

Loss rate: 0.78%

Run 1: Report of PCC-Allegro — Data Link

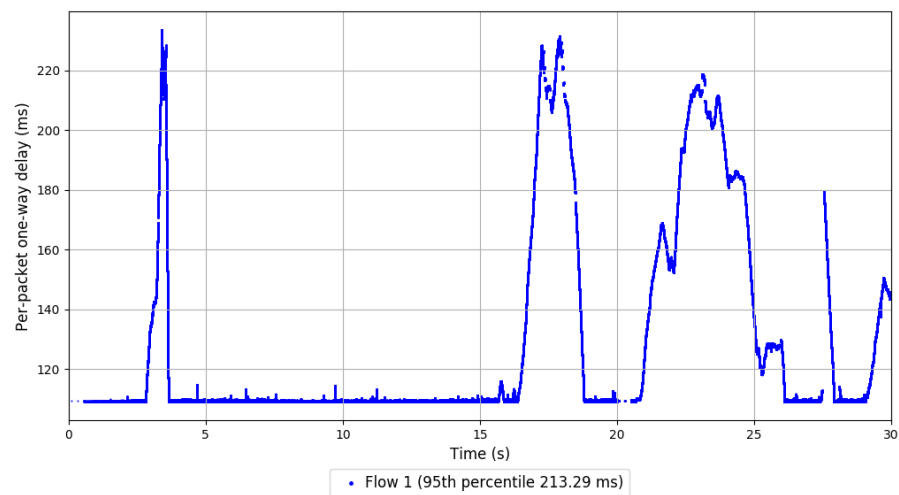
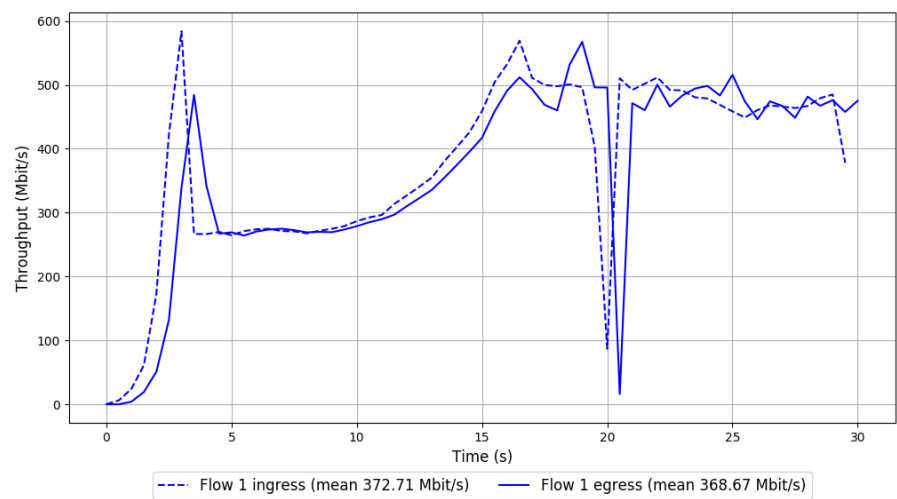


Run 2: Statistics of PCC-Allegro

Start at: 2019-02-05 01:31:23
End at: 2019-02-05 01:31:53
Local clock offset: 17.918 ms
Remote clock offset: 17.909 ms

Below is generated by plot.py at 2019-02-05 04:59:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 368.67 Mbit/s
95th percentile per-packet one-way delay: 213.289 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 368.67 Mbit/s
95th percentile per-packet one-way delay: 213.289 ms
Loss rate: 1.08%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-02-05 02:03:29

End at: 2019-02-05 02:03:59

Local clock offset: 17.239 ms

Remote clock offset: 16.039 ms

Below is generated by plot.py at 2019-02-05 04:59:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 333.04 Mbit/s

95th percentile per-packet one-way delay: 224.255 ms

Loss rate: 1.44%

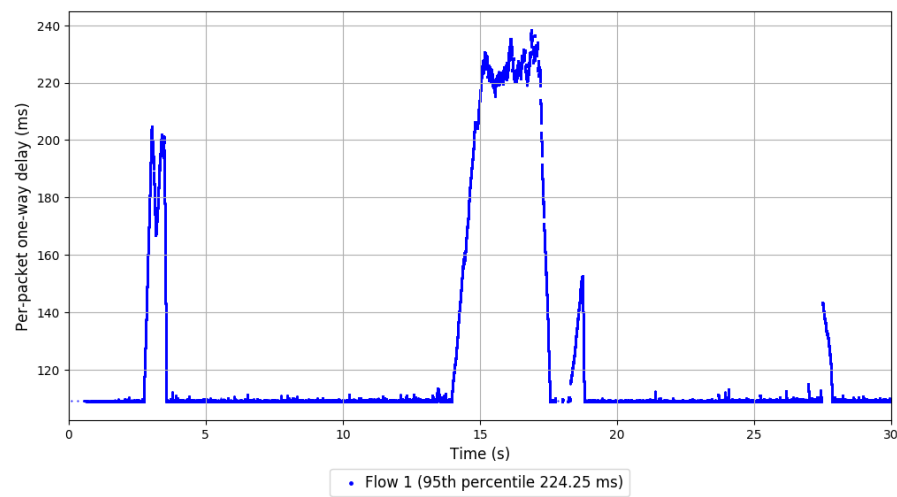
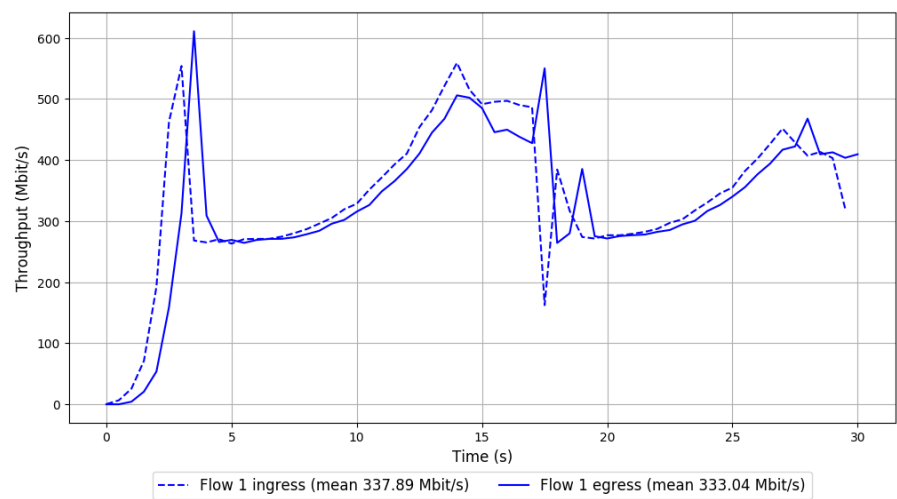
-- Flow 1:

Average throughput: 333.04 Mbit/s

95th percentile per-packet one-way delay: 224.255 ms

Loss rate: 1.44%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-02-05 02:35:33

End at: 2019-02-05 02:36:03

Local clock offset: 8.111 ms

Remote clock offset: 9.003 ms

Below is generated by plot.py at 2019-02-05 05:02:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 399.83 Mbit/s

95th percentile per-packet one-way delay: 228.033 ms

Loss rate: 4.91%

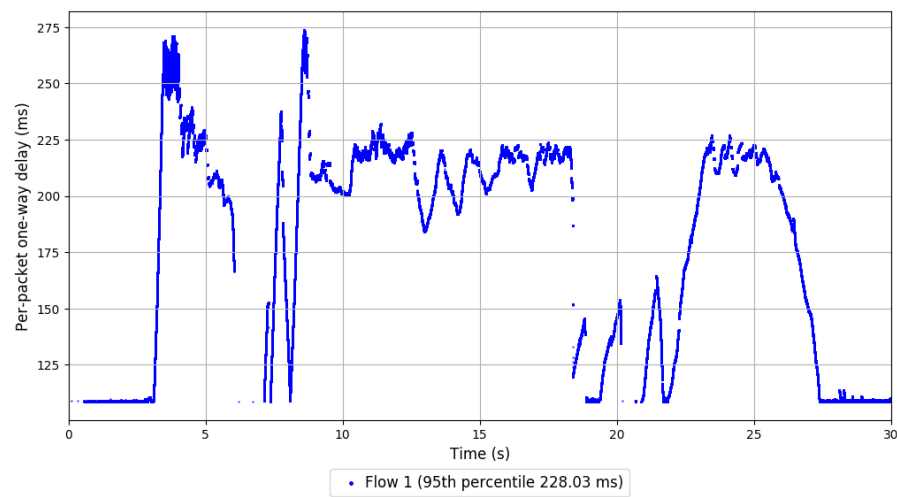
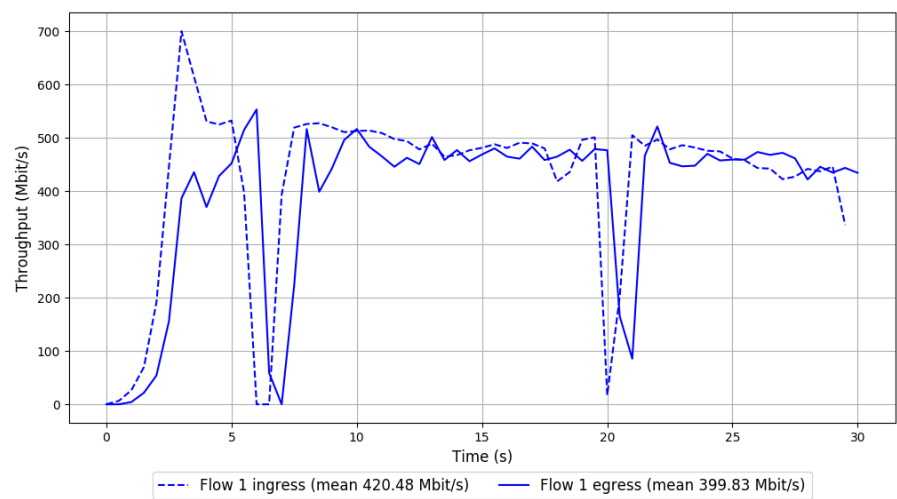
-- Flow 1:

Average throughput: 399.83 Mbit/s

95th percentile per-packet one-way delay: 228.033 ms

Loss rate: 4.91%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-02-05 03:07:25

End at: 2019-02-05 03:07:55

Local clock offset: 3.257 ms

Remote clock offset: 4.835 ms

Below is generated by plot.py at 2019-02-05 05:03:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 410.08 Mbit/s

95th percentile per-packet one-way delay: 235.072 ms

Loss rate: 4.90%

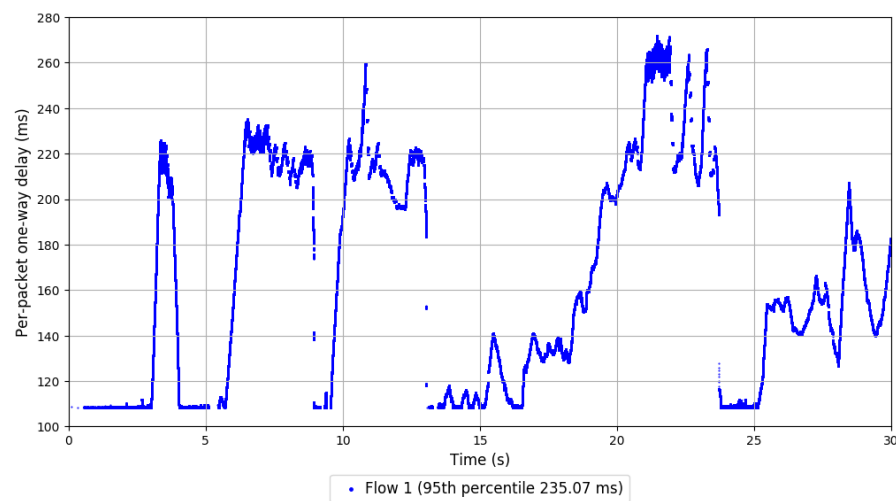
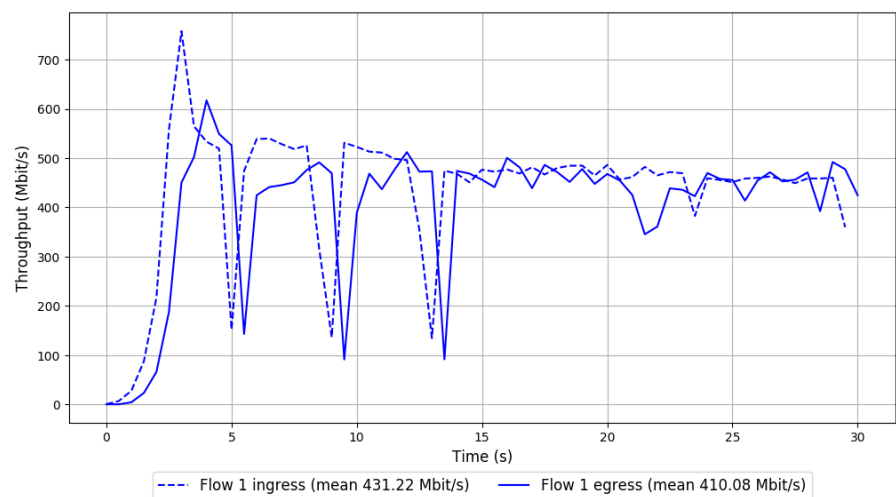
-- Flow 1:

Average throughput: 410.08 Mbit/s

95th percentile per-packet one-way delay: 235.072 ms

Loss rate: 4.90%

Run 5: Report of PCC-Allegro — Data Link

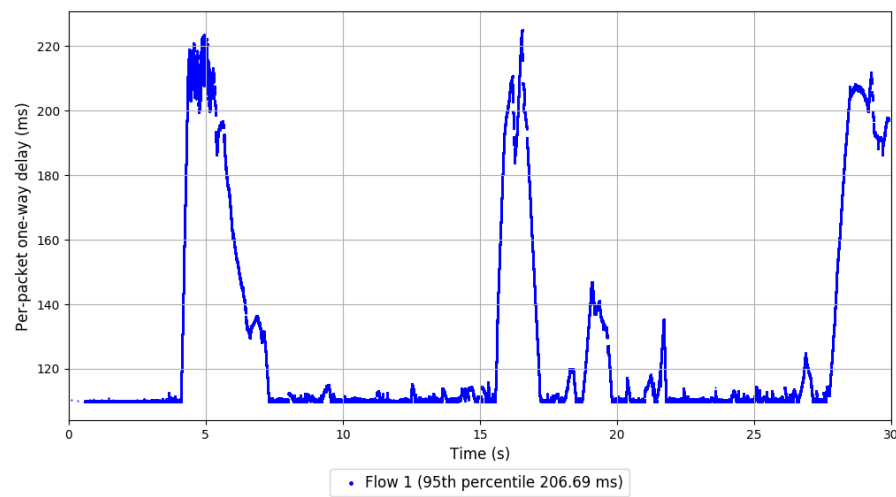
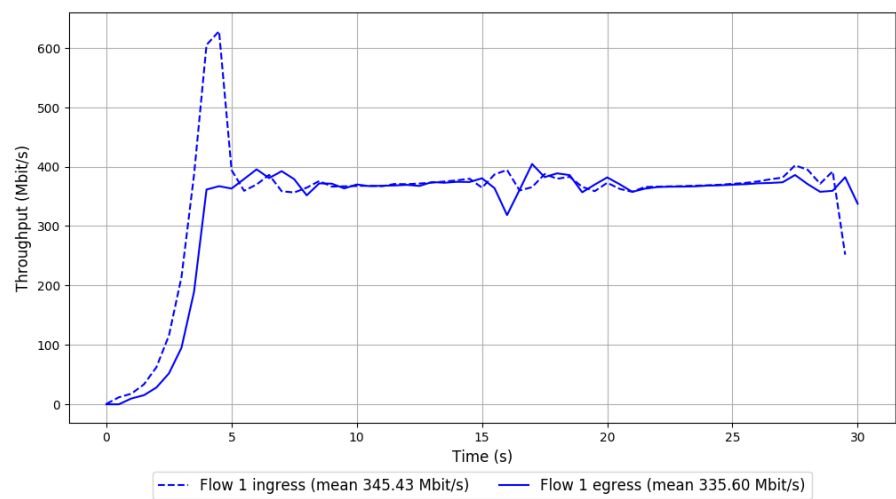


Run 1: Statistics of PCC-Expr

Start at: 2019-02-05 01:06:35
End at: 2019-02-05 01:07:05
Local clock offset: 11.632 ms
Remote clock offset: 11.621 ms

Below is generated by plot.py at 2019-02-05 05:03:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 335.60 Mbit/s
95th percentile per-packet one-way delay: 206.690 ms
Loss rate: 2.85%
-- Flow 1:
Average throughput: 335.60 Mbit/s
95th percentile per-packet one-way delay: 206.690 ms
Loss rate: 2.85%

Run 1: Report of PCC-Expr — Data Link

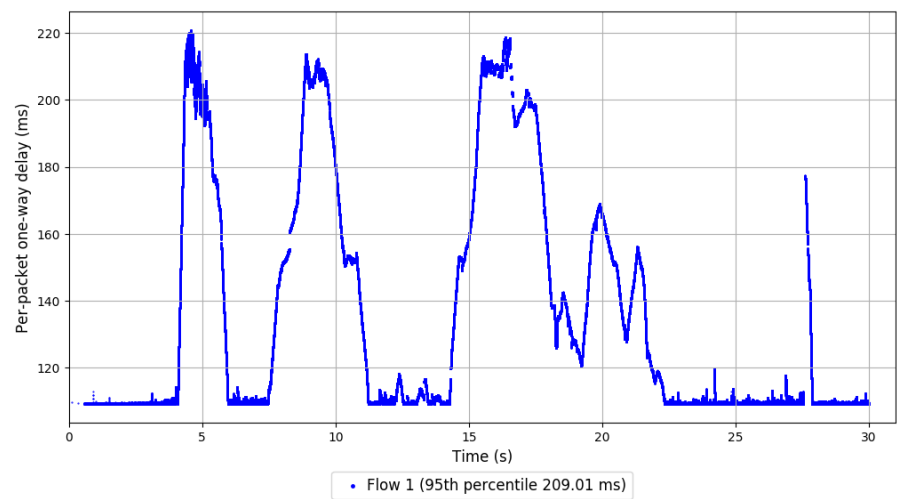
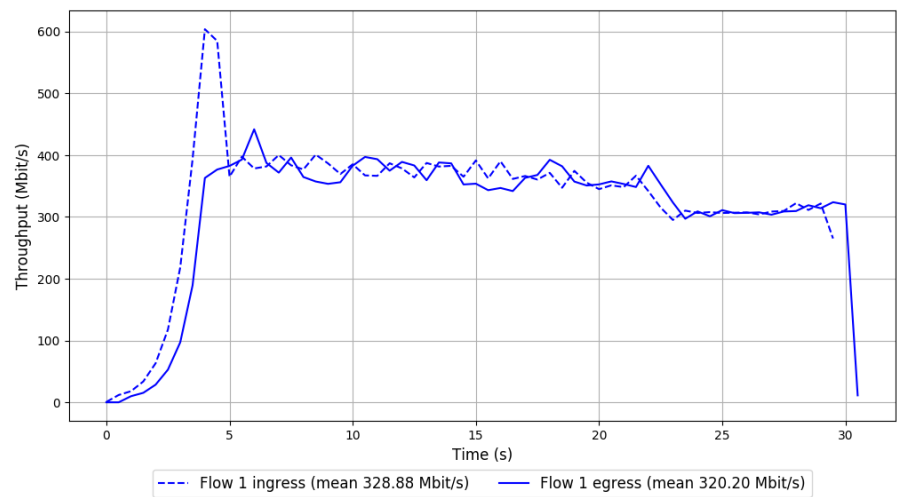


Run 2: Statistics of PCC-Expr

Start at: 2019-02-05 01:38:40
End at: 2019-02-05 01:39:10
Local clock offset: 22.081 ms
Remote clock offset: 21.878 ms

Below is generated by plot.py at 2019-02-05 05:04:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 320.20 Mbit/s
95th percentile per-packet one-way delay: 209.006 ms
Loss rate: 2.64%
-- Flow 1:
Average throughput: 320.20 Mbit/s
95th percentile per-packet one-way delay: 209.006 ms
Loss rate: 2.64%

Run 2: Report of PCC-Expr — Data Link

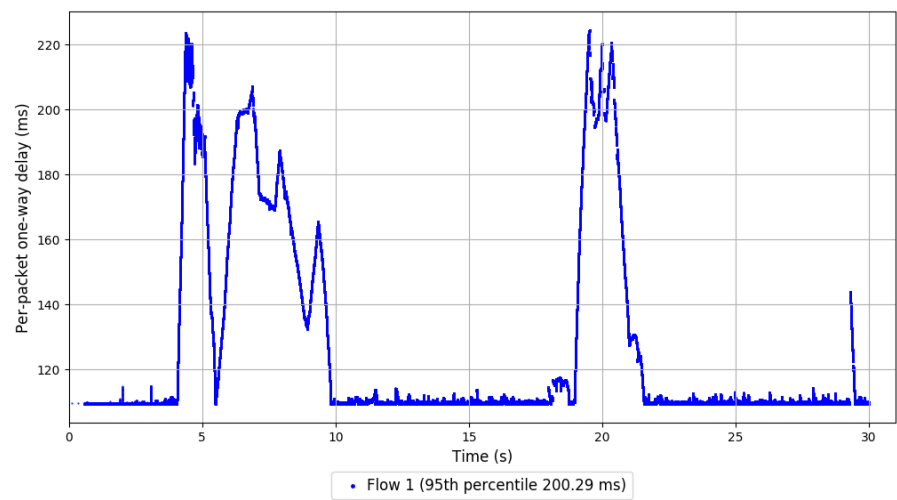
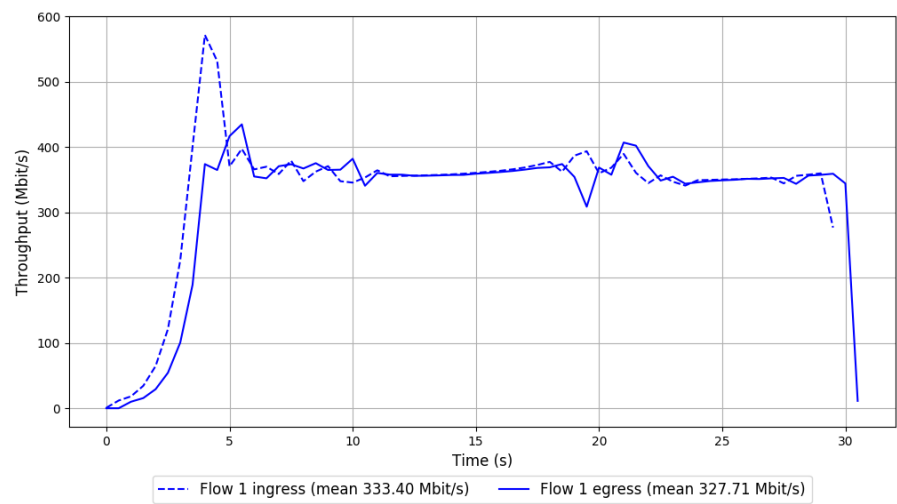


Run 3: Statistics of PCC-Expr

Start at: 2019-02-05 02:10:57
End at: 2019-02-05 02:11:27
Local clock offset: 13.179 ms
Remote clock offset: 13.441 ms

Below is generated by plot.py at 2019-02-05 05:06:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 327.71 Mbit/s
95th percentile per-packet one-way delay: 200.295 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 327.71 Mbit/s
95th percentile per-packet one-way delay: 200.295 ms
Loss rate: 1.71%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-02-05 02:42:53

End at: 2019-02-05 02:43:23

Local clock offset: 4.185 ms

Remote clock offset: 6.682 ms

Below is generated by plot.py at 2019-02-05 05:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 304.53 Mbit/s

95th percentile per-packet one-way delay: 212.292 ms

Loss rate: 1.37%

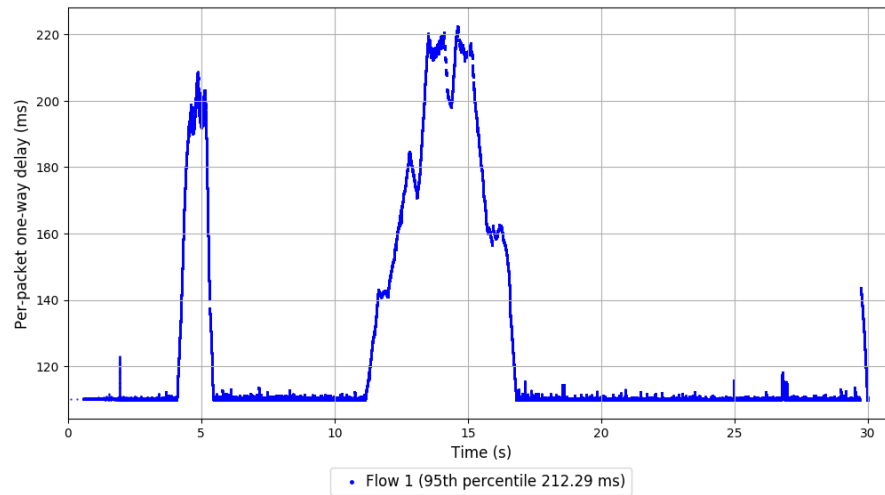
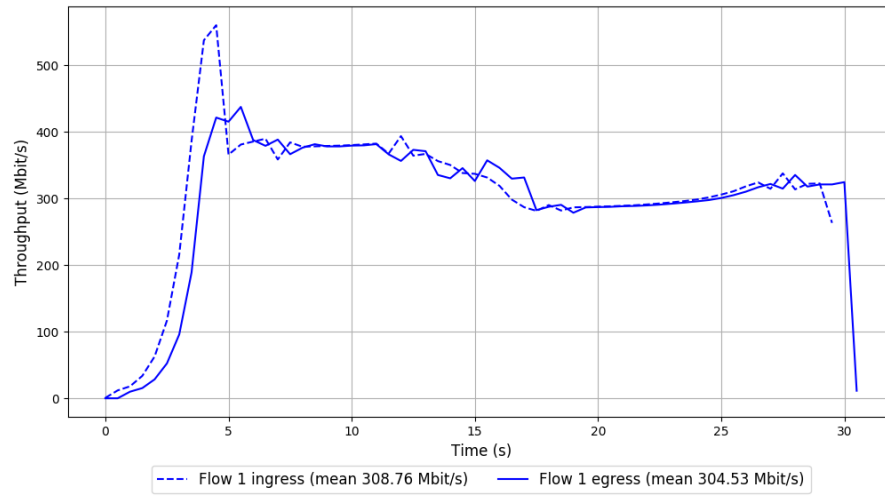
-- Flow 1:

Average throughput: 304.53 Mbit/s

95th percentile per-packet one-way delay: 212.292 ms

Loss rate: 1.37%

Run 4: Report of PCC-Expr — Data Link

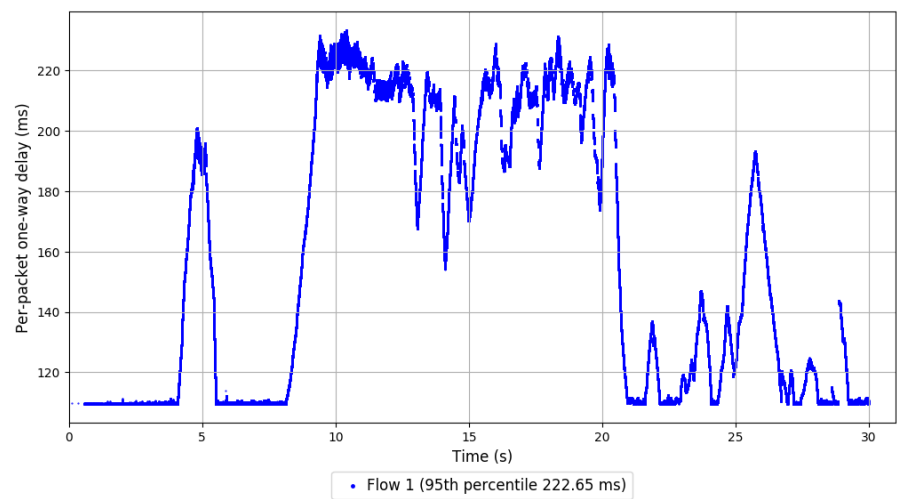
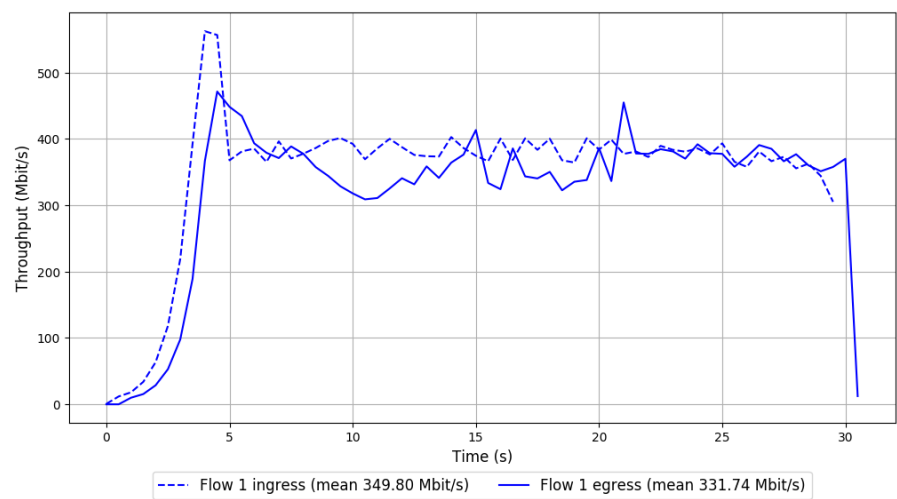



```
Run 5: Statistics of PCC-Expr

Start at: 2019-02-05 03:14:50
End at: 2019-02-05 03:15:20
Local clock offset: 1.009 ms
Remote clock offset: 2.652 ms

# Below is generated by plot.py at 2019-02-05 05:10:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 331.74 Mbit/s
95th percentile per-packet one-way delay: 222.646 ms
Loss rate: 5.16%
-- Flow 1:
Average throughput: 331.74 Mbit/s
95th percentile per-packet one-way delay: 222.646 ms
Loss rate: 5.16%
```

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-02-05 01:02:31

End at: 2019-02-05 01:03:01

Local clock offset: 15.07 ms

Remote clock offset: 15.722 ms

Below is generated by plot.py at 2019-02-05 05:10:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.33 Mbit/s

95th percentile per-packet one-way delay: 110.143 ms

Loss rate: 0.00%

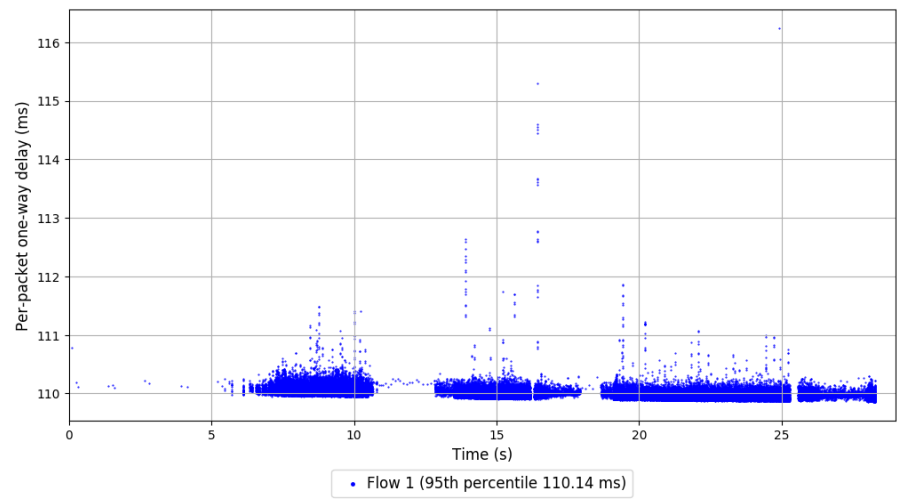
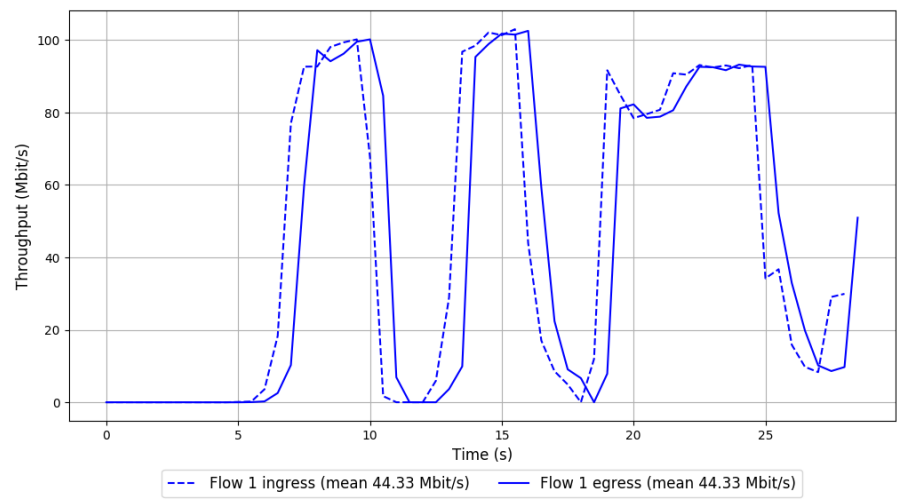
-- Flow 1:

Average throughput: 44.33 Mbit/s

95th percentile per-packet one-way delay: 110.143 ms

Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link

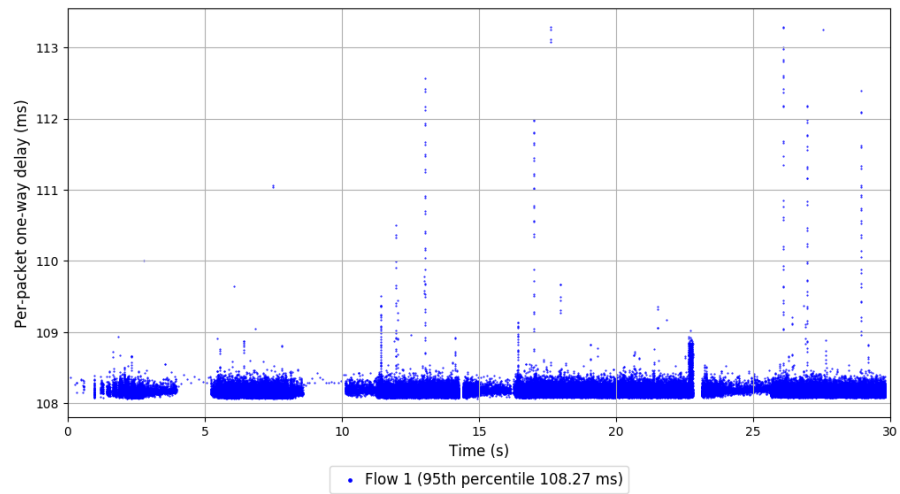
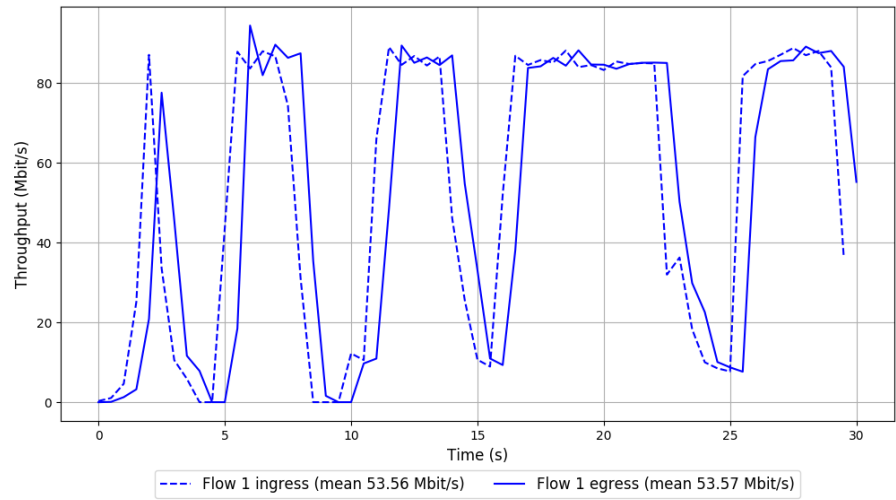


Run 2: Statistics of QUIC Cubic

Start at: 2019-02-05 01:34:37
End at: 2019-02-05 01:35:07
Local clock offset: 19.987 ms
Remote clock offset: 18.994 ms

Below is generated by plot.py at 2019-02-05 05:10:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 53.57 Mbit/s
95th percentile per-packet one-way delay: 108.272 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 53.57 Mbit/s
95th percentile per-packet one-way delay: 108.272 ms
Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-02-05 02:06:54

End at: 2019-02-05 02:07:24

Local clock offset: 14.334 ms

Remote clock offset: 14.1 ms

Below is generated by plot.py at 2019-02-05 05:10:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.77 Mbit/s

95th percentile per-packet one-way delay: 110.020 ms

Loss rate: 0.00%

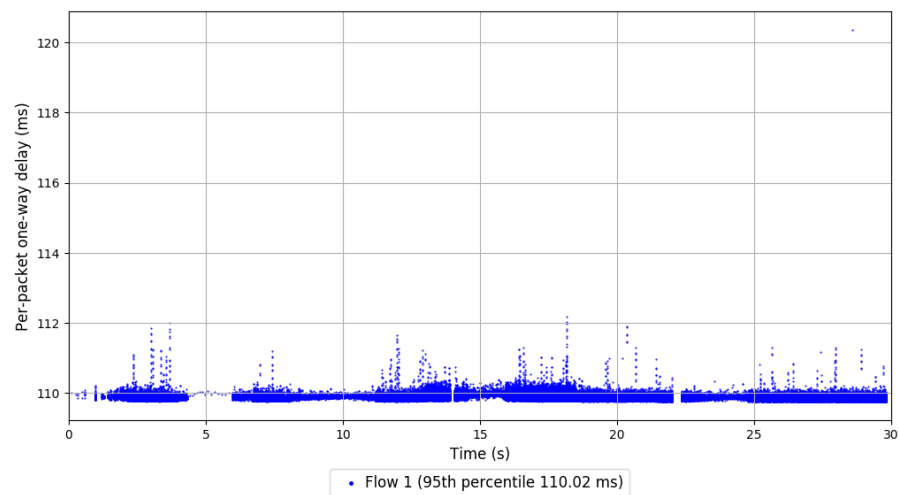
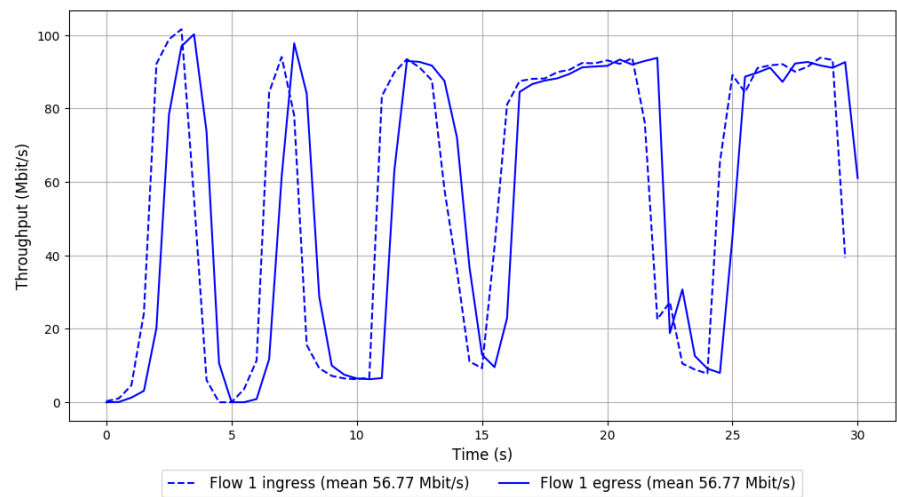
-- Flow 1:

Average throughput: 56.77 Mbit/s

95th percentile per-packet one-way delay: 110.020 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-02-05 02:38:49

End at: 2019-02-05 02:39:19

Local clock offset: 7.671 ms

Remote clock offset: 7.601 ms

Below is generated by plot.py at 2019-02-05 05:10:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.90 Mbit/s

95th percentile per-packet one-way delay: 108.158 ms

Loss rate: 0.00%

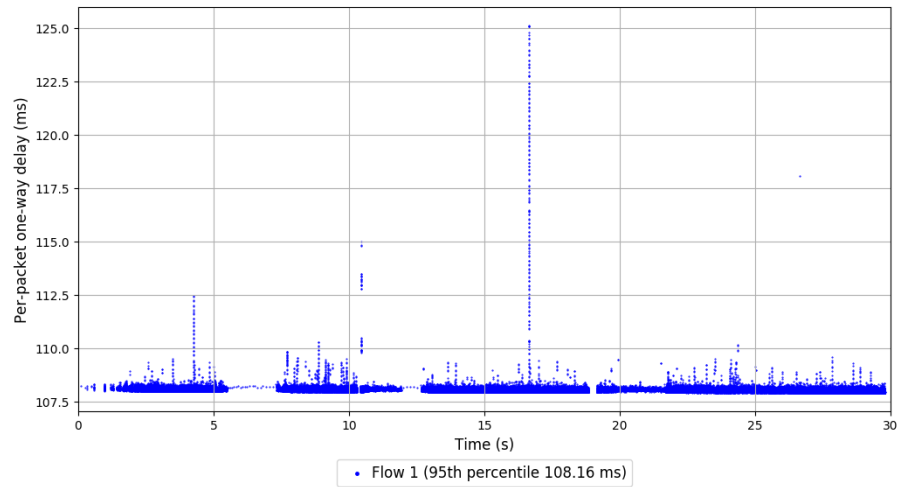
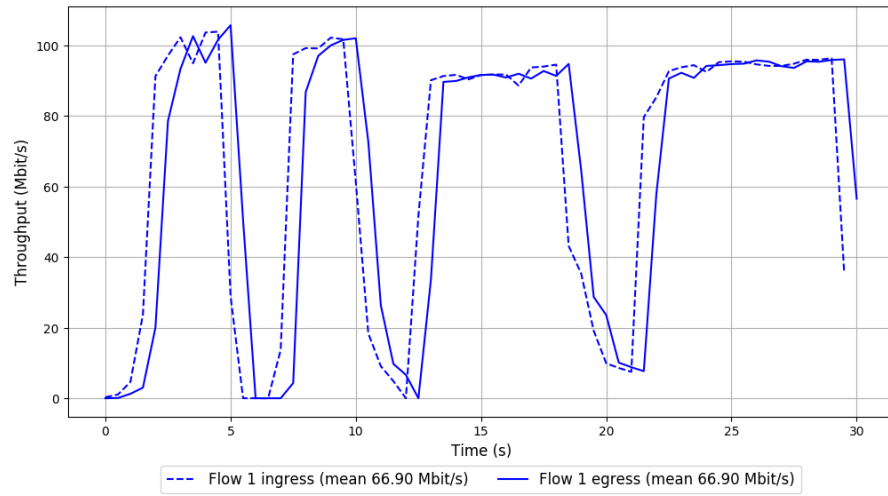
-- Flow 1:

Average throughput: 66.90 Mbit/s

95th percentile per-packet one-way delay: 108.158 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-02-05 03:10:46

End at: 2019-02-05 03:11:16

Local clock offset: 1.976 ms

Remote clock offset: 3.558 ms

Below is generated by plot.py at 2019-02-05 05:10:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.89 Mbit/s

95th percentile per-packet one-way delay: 109.248 ms

Loss rate: 0.00%

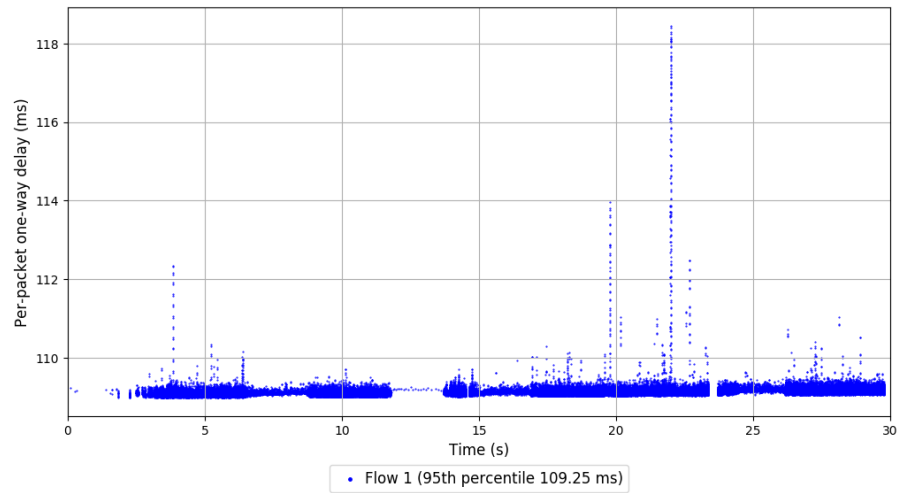
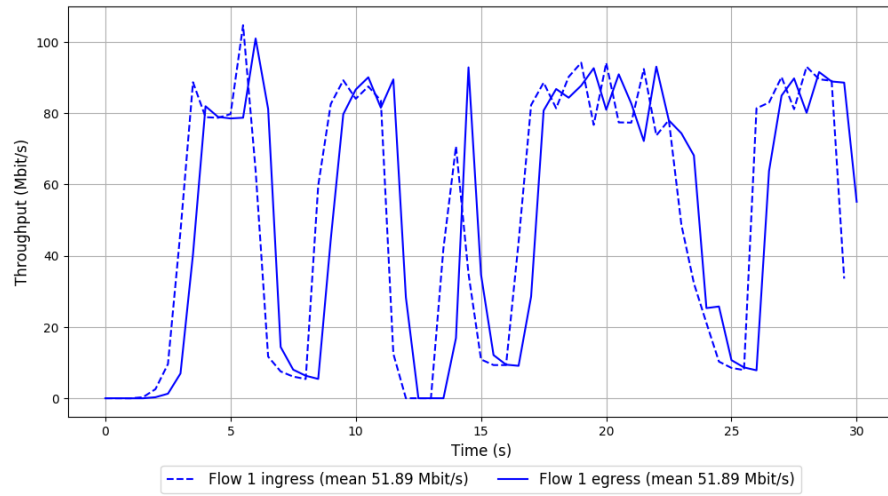
-- Flow 1:

Average throughput: 51.89 Mbit/s

95th percentile per-packet one-way delay: 109.248 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

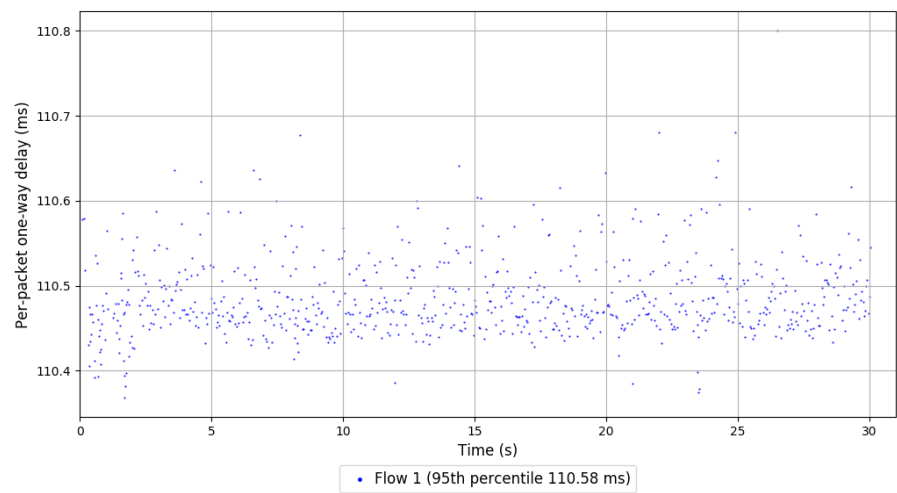
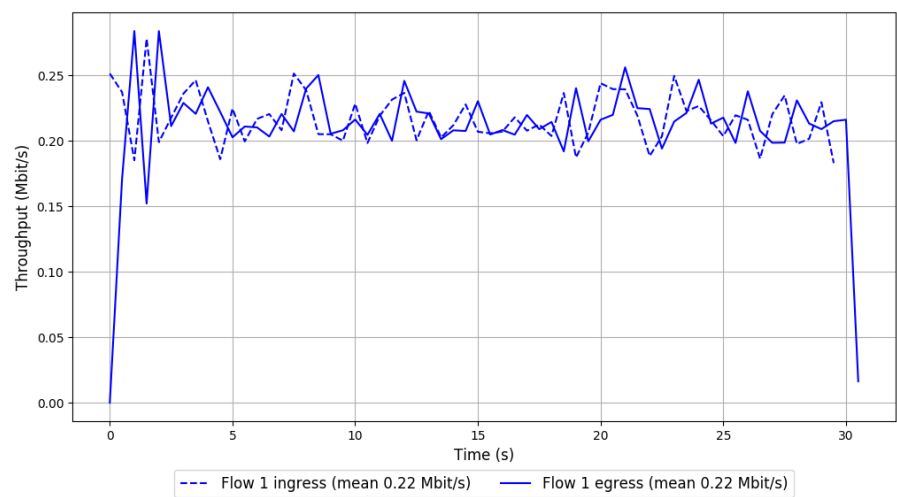


```
Run 1: Statistics of SCReAM

Start at: 2019-02-05 01:11:40
End at: 2019-02-05 01:12:10
Local clock offset: 13.779 ms
Remote clock offset: 14.375 ms

# Below is generated by plot.py at 2019-02-05 05:10:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.576 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.576 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

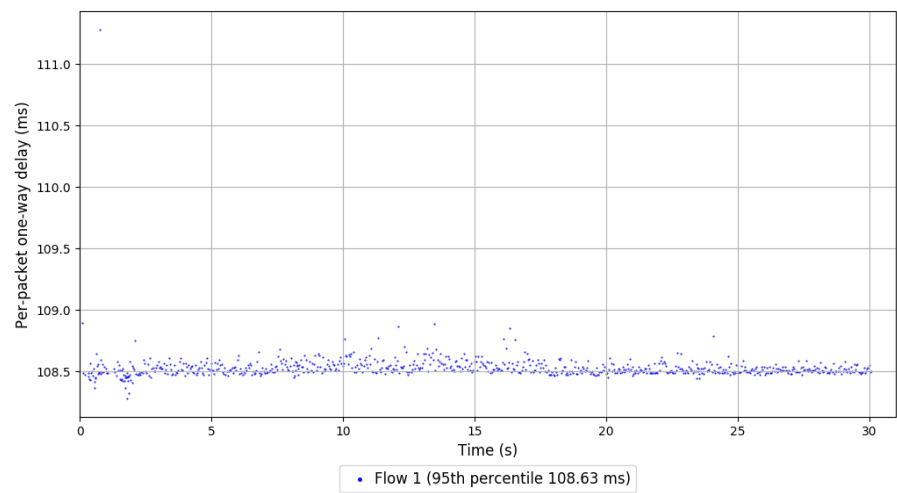
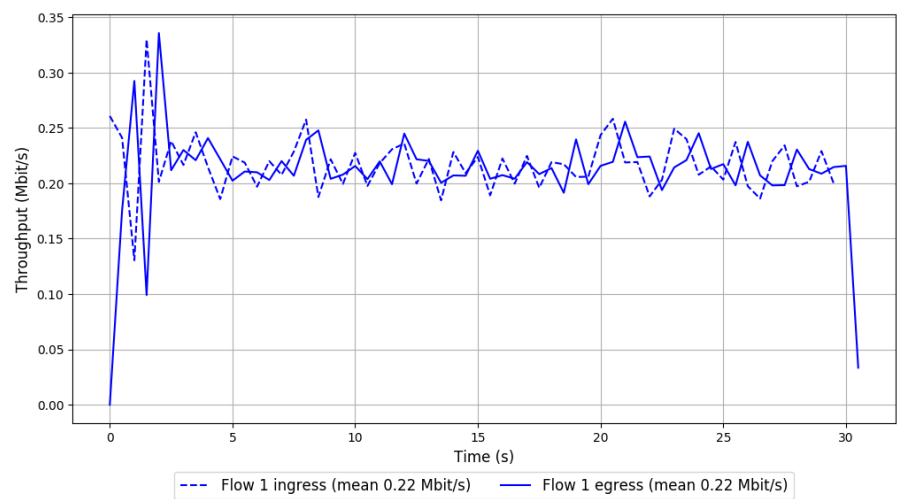


Run 2: Statistics of SCReAM

Start at: 2019-02-05 01:43:44
End at: 2019-02-05 01:44:14
Local clock offset: 26.928 ms
Remote clock offset: 25.803 ms

Below is generated by plot.py at 2019-02-05 05:10:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 108.627 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 108.627 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

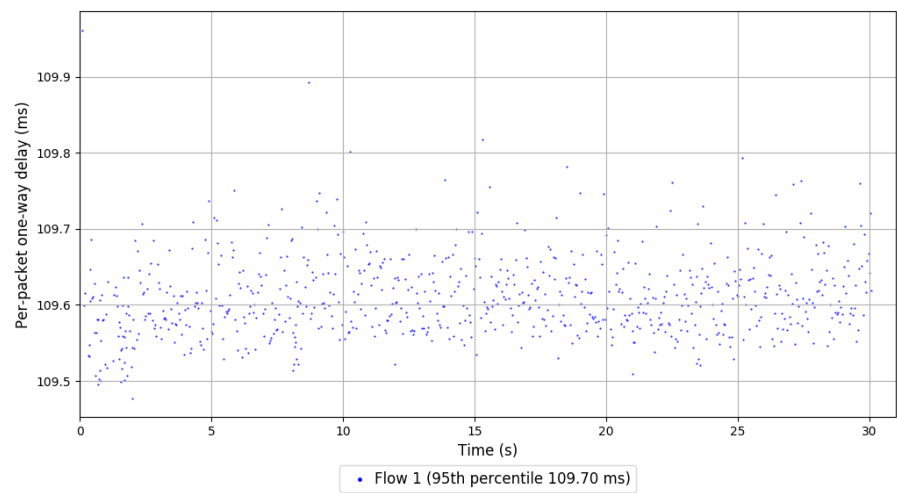
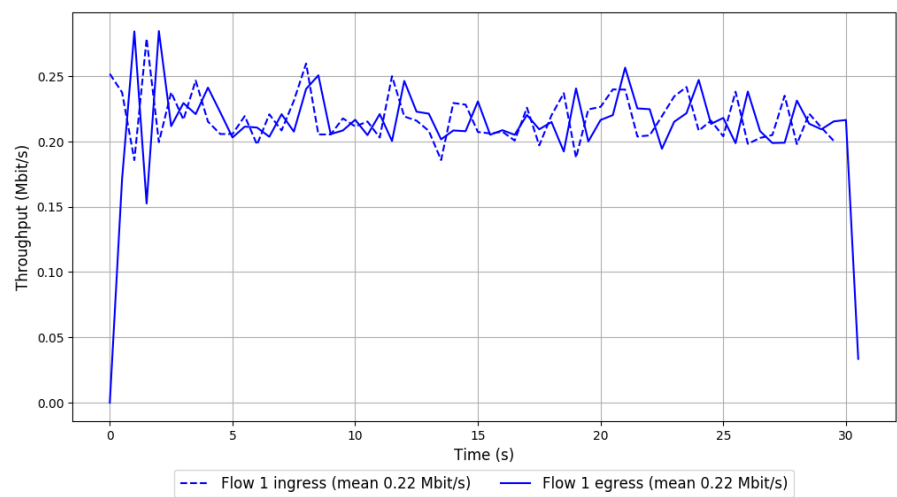


Run 3: Statistics of SCReAM

Start at: 2019-02-05 02:16:02
End at: 2019-02-05 02:16:32
Local clock offset: 14.664 ms
Remote clock offset: 14.079 ms

Below is generated by plot.py at 2019-02-05 05:10:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.704 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.704 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-02-05 02:47:56

End at: 2019-02-05 02:48:26

Local clock offset: 4.946 ms

Remote clock offset: 6.196 ms

Below is generated by plot.py at 2019-02-05 05:10:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 108.060 ms

Loss rate: 0.00%

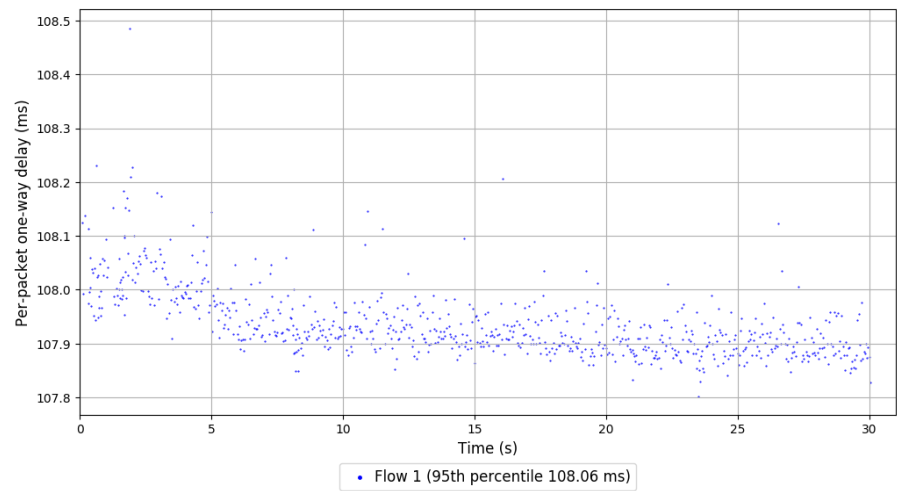
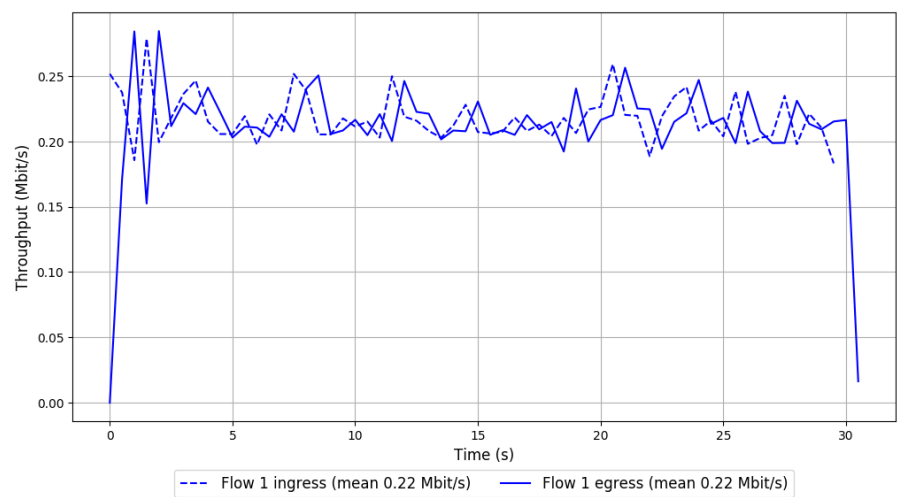
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 108.060 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-02-05 03:19:59

End at: 2019-02-05 03:20:29

Local clock offset: 1.06 ms

Remote clock offset: 1.697 ms

Below is generated by plot.py at 2019-02-05 05:10:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.400 ms

Loss rate: 0.00%

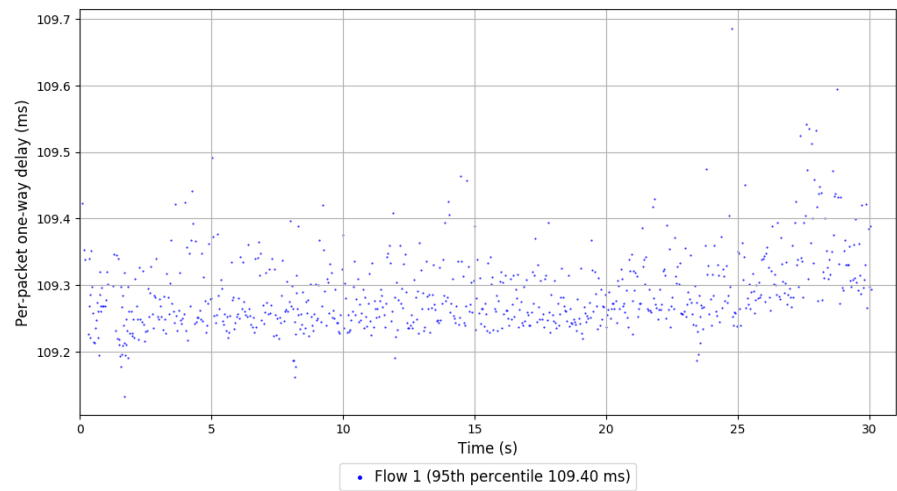
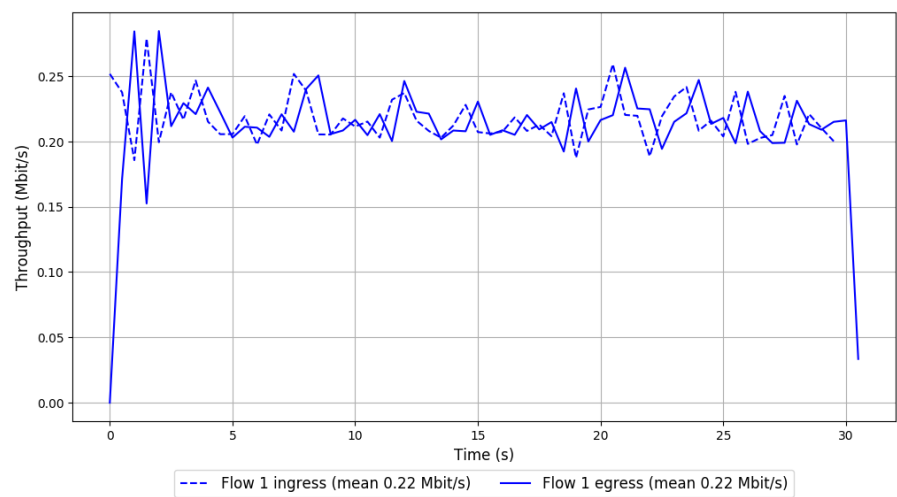
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.400 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

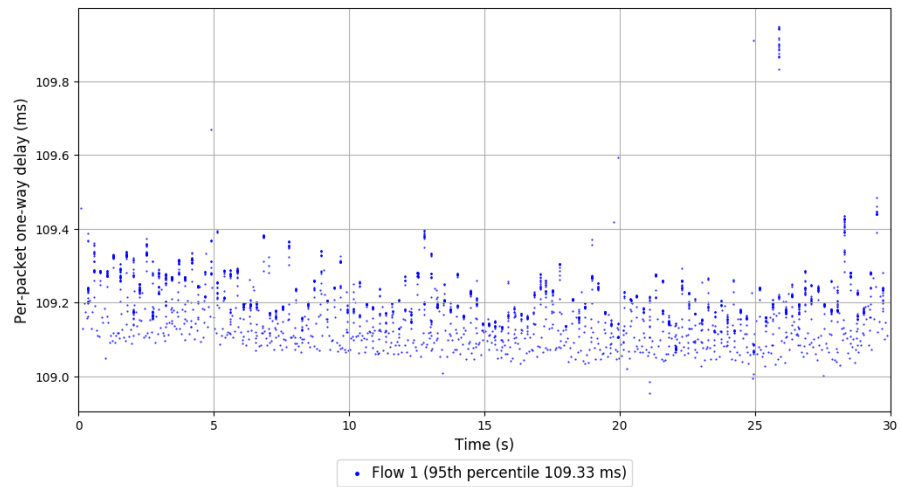
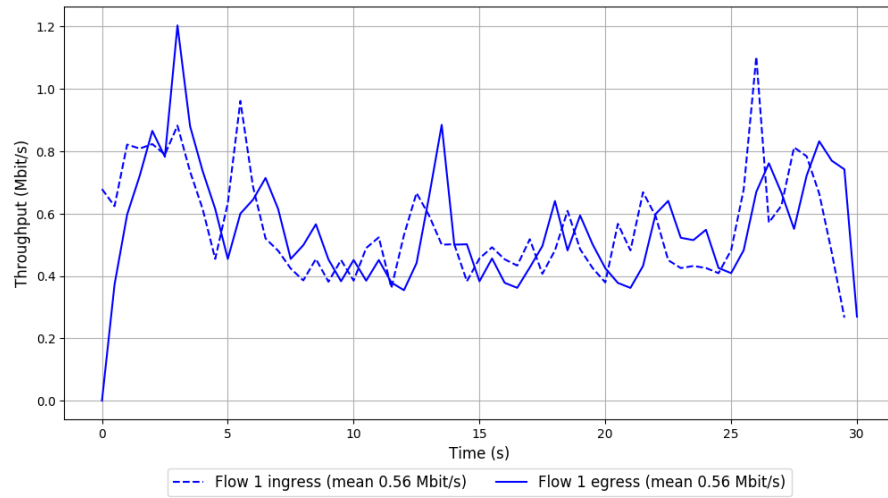


Run 1: Statistics of Sprout

Start at: 2019-02-05 01:05:25
End at: 2019-02-05 01:05:55
Local clock offset: 12.159 ms
Remote clock offset: 12.249 ms

Below is generated by plot.py at 2019-02-05 05:10:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 109.334 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 109.334 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

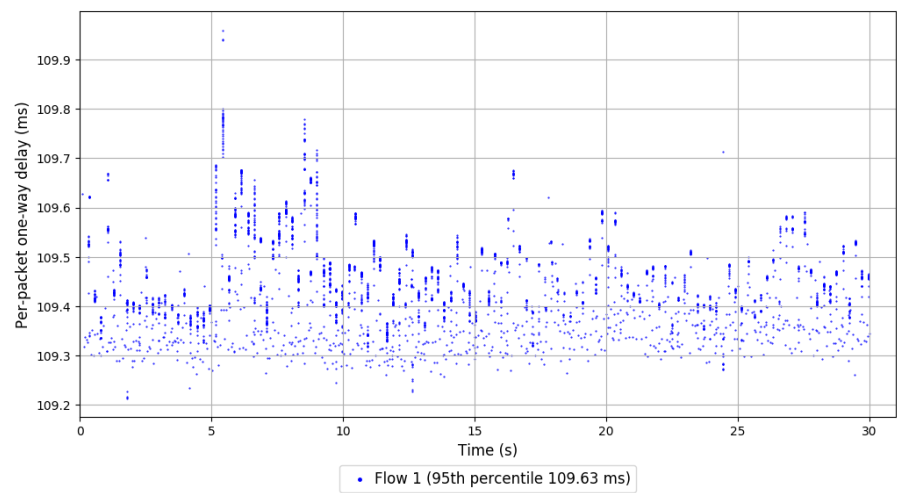
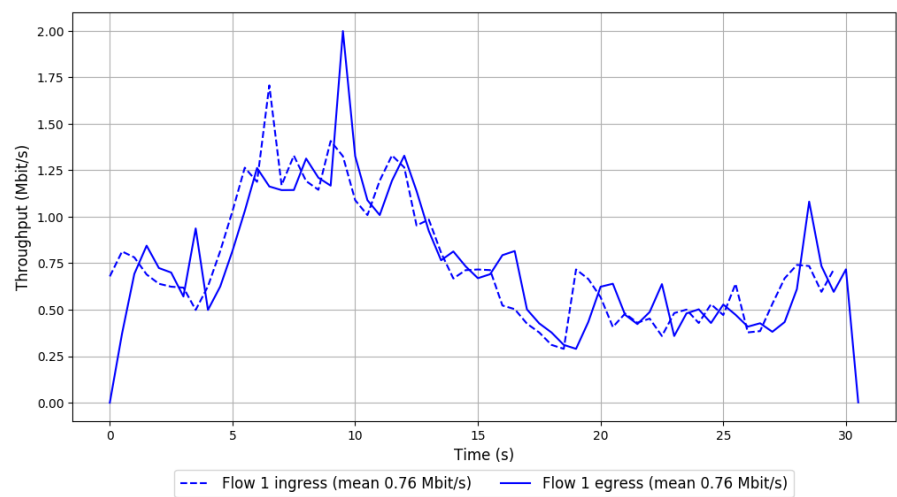


Run 2: Statistics of Sprout

Start at: 2019-02-05 01:37:30
End at: 2019-02-05 01:38:00
Local clock offset: 21.84 ms
Remote clock offset: 21.158 ms

Below is generated by plot.py at 2019-02-05 05:10:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.76 Mbit/s
95th percentile per-packet one-way delay: 109.627 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.76 Mbit/s
95th percentile per-packet one-way delay: 109.627 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

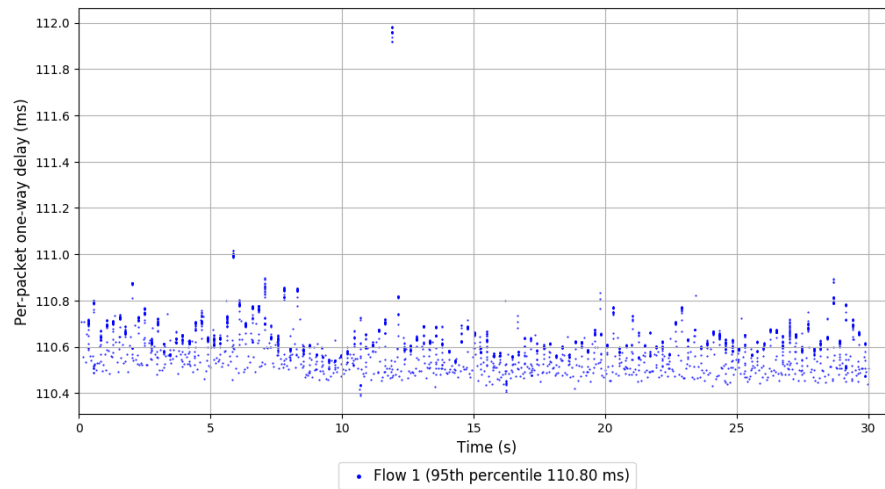
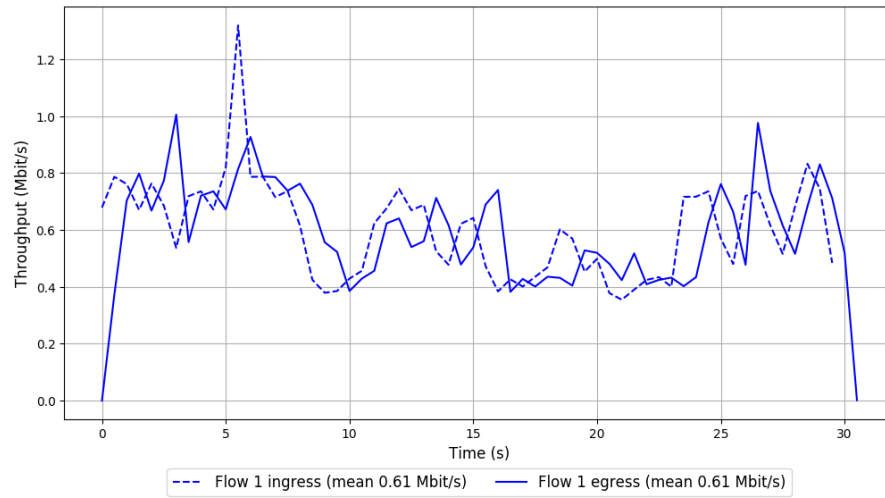


Run 3: Statistics of Sprout

Start at: 2019-02-05 02:09:47
End at: 2019-02-05 02:10:17
Local clock offset: 12.713 ms
Remote clock offset: 13.367 ms

Below is generated by plot.py at 2019-02-05 05:10:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 110.801 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 110.801 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-02-05 02:41:43

End at: 2019-02-05 02:42:13

Local clock offset: 4.905 ms

Remote clock offset: 6.811 ms

Below is generated by plot.py at 2019-02-05 05:10:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 109.183 ms

Loss rate: 0.00%

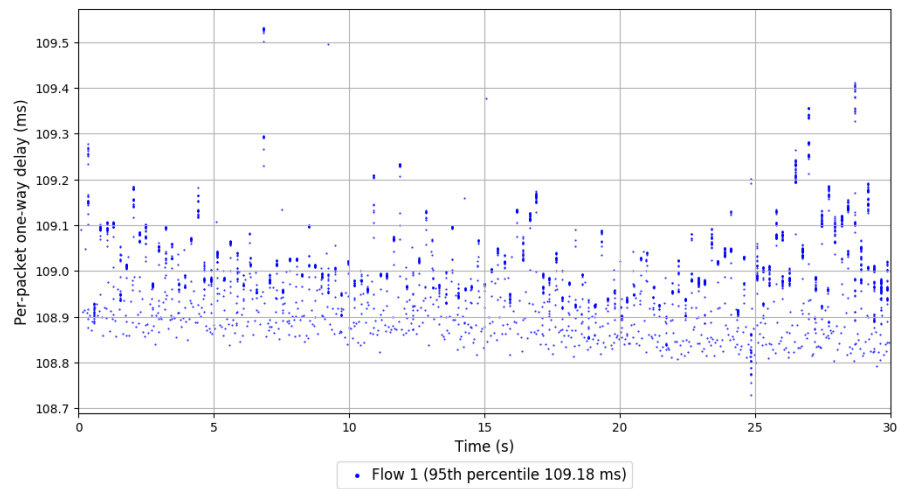
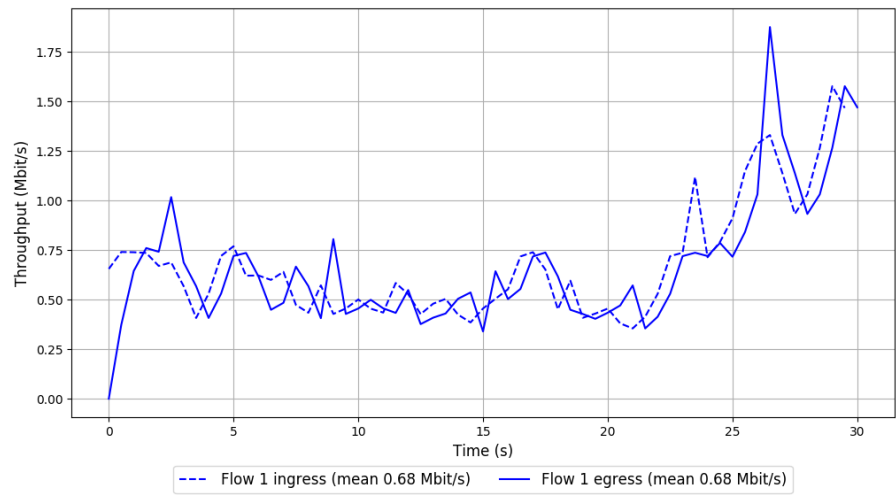
-- Flow 1:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 109.183 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-02-05 03:13:40

End at: 2019-02-05 03:14:10

Local clock offset: 0.964 ms

Remote clock offset: 2.797 ms

Below is generated by plot.py at 2019-02-05 05:10:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.20 Mbit/s

95th percentile per-packet one-way delay: 112.736 ms

Loss rate: 0.00%

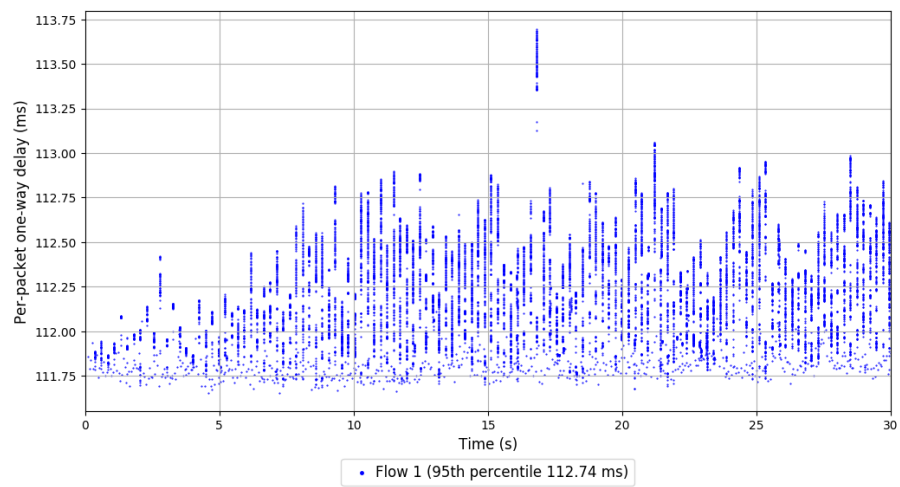
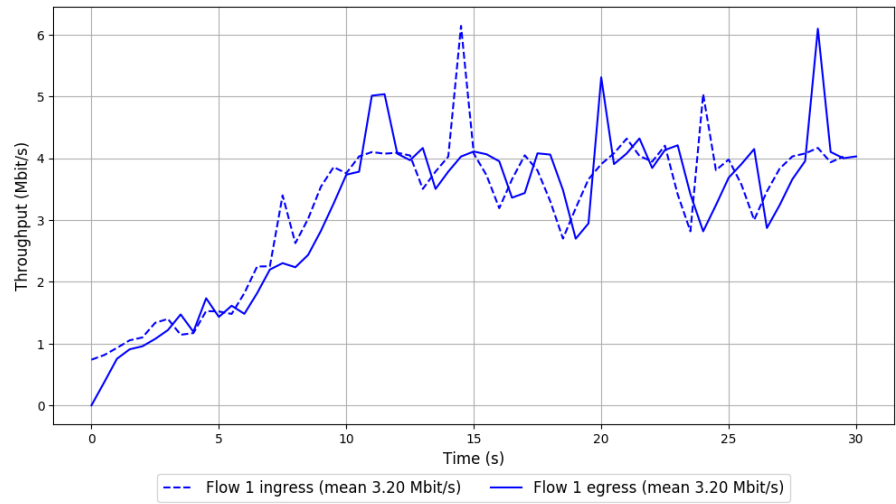
-- Flow 1:

Average throughput: 3.20 Mbit/s

95th percentile per-packet one-way delay: 112.736 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

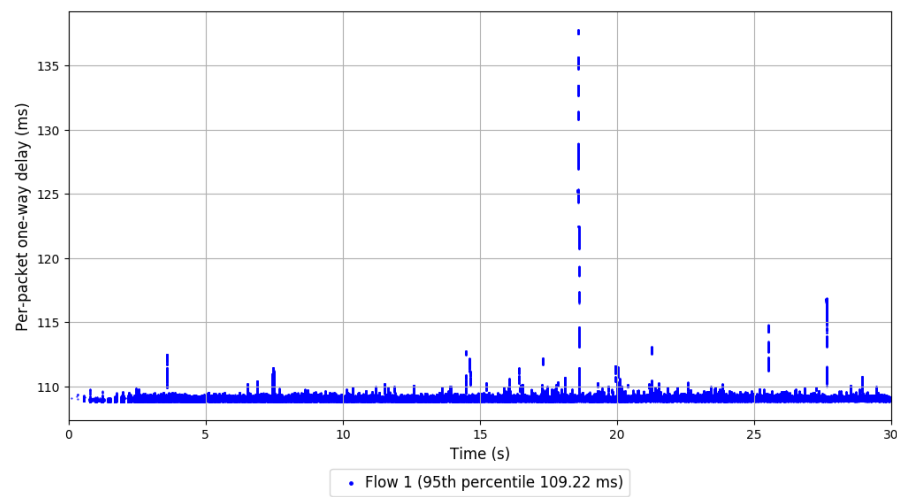
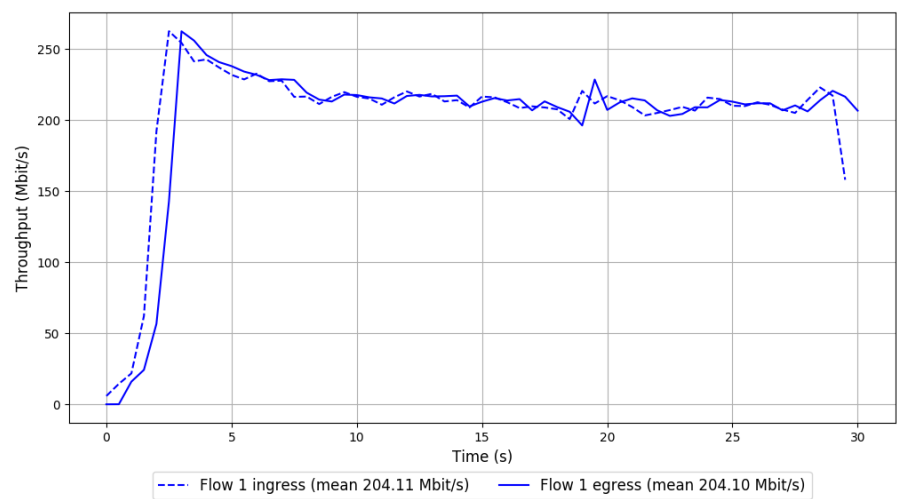



```
Run 1: Statistics of TaoVA-100x

Start at: 2019-02-05 00:48:50
End at: 2019-02-05 00:49:20
Local clock offset: 3.855 ms
Remote clock offset: 4.655 ms

# Below is generated by plot.py at 2019-02-05 05:10:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 204.10 Mbit/s
95th percentile per-packet one-way delay: 109.219 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 204.10 Mbit/s
95th percentile per-packet one-way delay: 109.219 ms
Loss rate: 0.00%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-02-05 01:20:33

End at: 2019-02-05 01:21:03

Local clock offset: 23.602 ms

Remote clock offset: 21.934 ms

Below is generated by plot.py at 2019-02-05 05:10:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.29 Mbit/s

95th percentile per-packet one-way delay: 108.186 ms

Loss rate: 0.00%

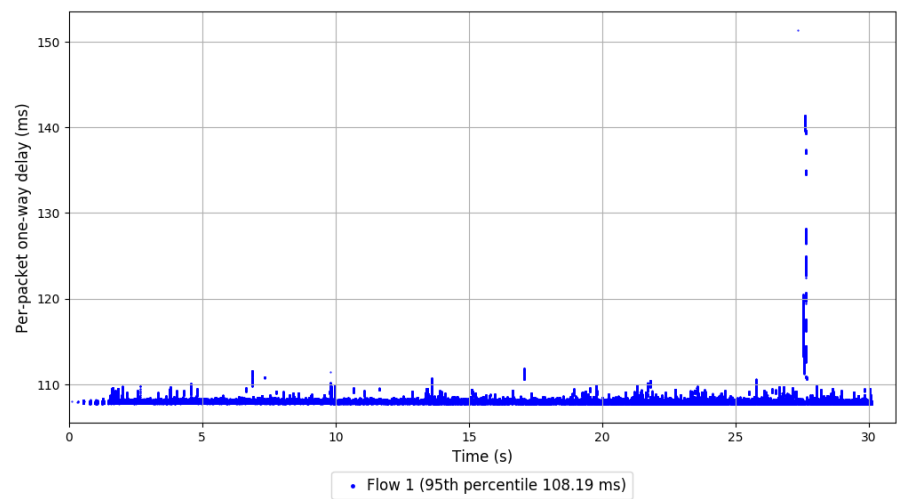
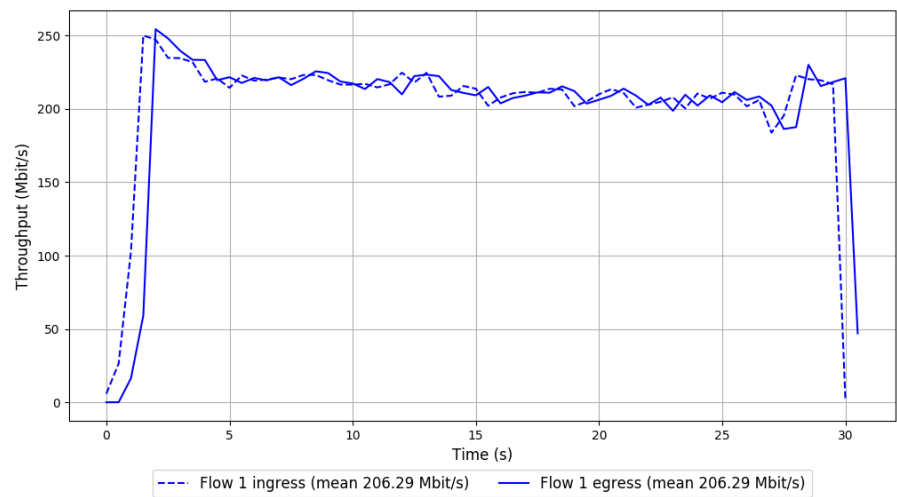
-- Flow 1:

Average throughput: 206.29 Mbit/s

95th percentile per-packet one-way delay: 108.186 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-02-05 01:52:37

End at: 2019-02-05 01:53:07

Local clock offset: 34.81 ms

Remote clock offset: 33.97 ms

Below is generated by plot.py at 2019-02-05 05:11:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.30 Mbit/s

95th percentile per-packet one-way delay: 110.346 ms

Loss rate: 0.00%

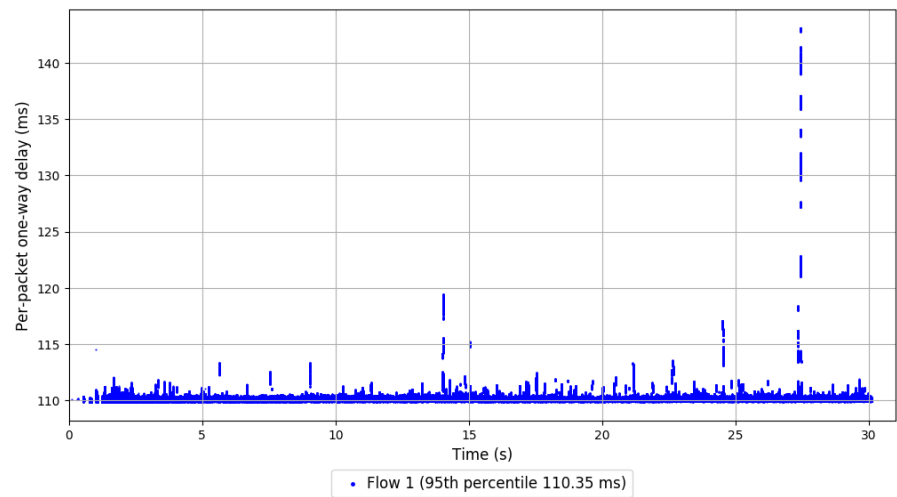
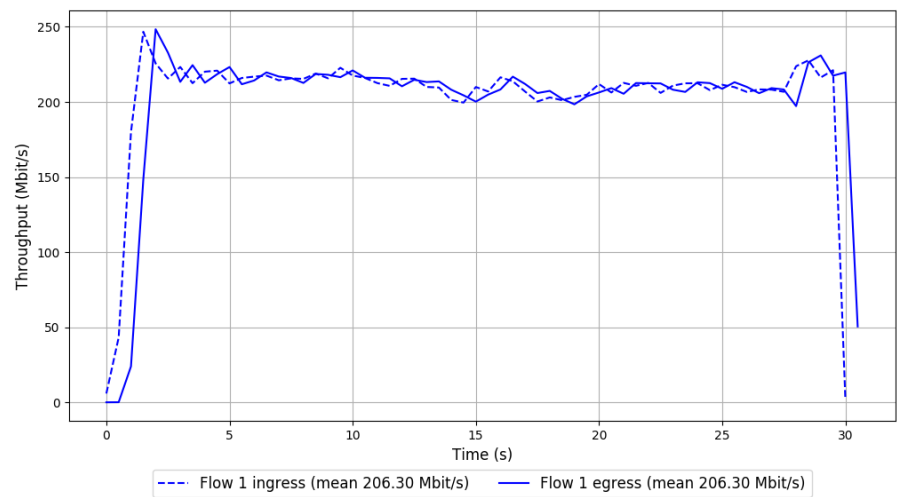
-- Flow 1:

Average throughput: 206.30 Mbit/s

95th percentile per-packet one-way delay: 110.346 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-02-05 02:24:42

End at: 2019-02-05 02:25:12

Local clock offset: 17.686 ms

Remote clock offset: 16.456 ms

Below is generated by plot.py at 2019-02-05 05:11:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.06 Mbit/s

95th percentile per-packet one-way delay: 109.091 ms

Loss rate: 0.00%

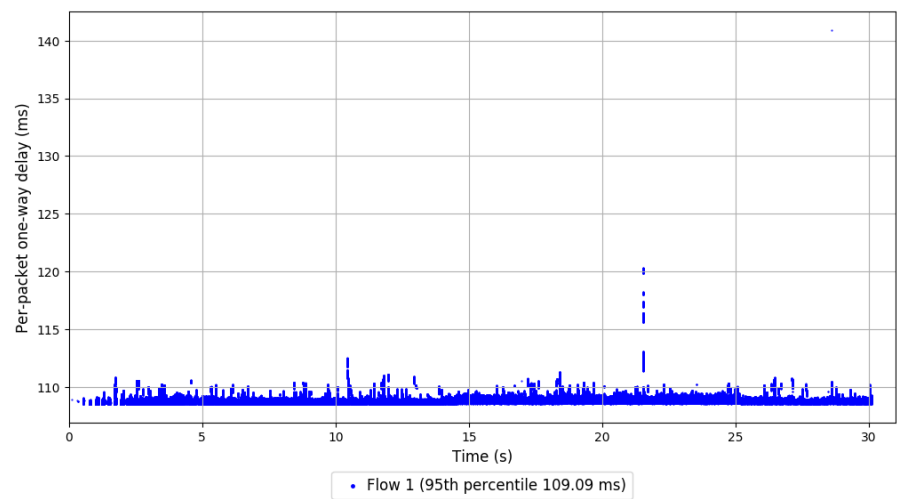
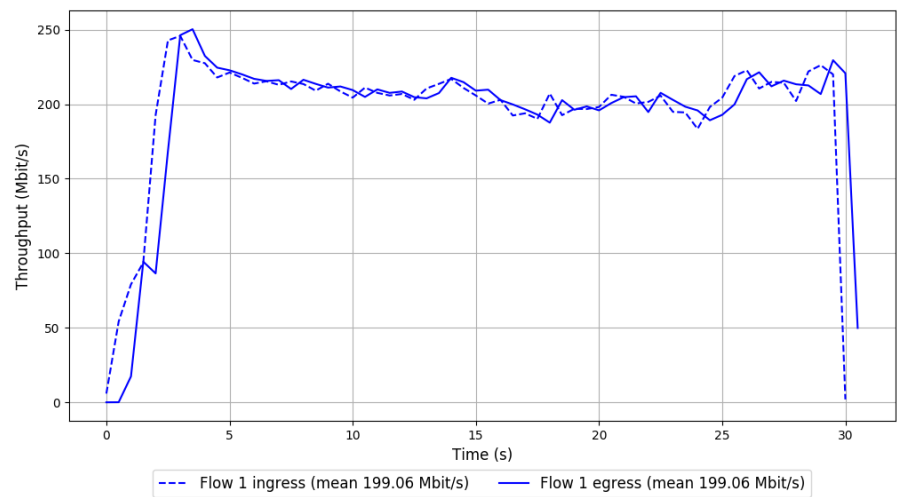
-- Flow 1:

Average throughput: 199.06 Mbit/s

95th percentile per-packet one-way delay: 109.091 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-02-05 02:56:39

End at: 2019-02-05 02:57:09

Local clock offset: 3.302 ms

Remote clock offset: 7.556 ms

Below is generated by plot.py at 2019-02-05 05:11:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.39 Mbit/s

95th percentile per-packet one-way delay: 110.152 ms

Loss rate: 0.00%

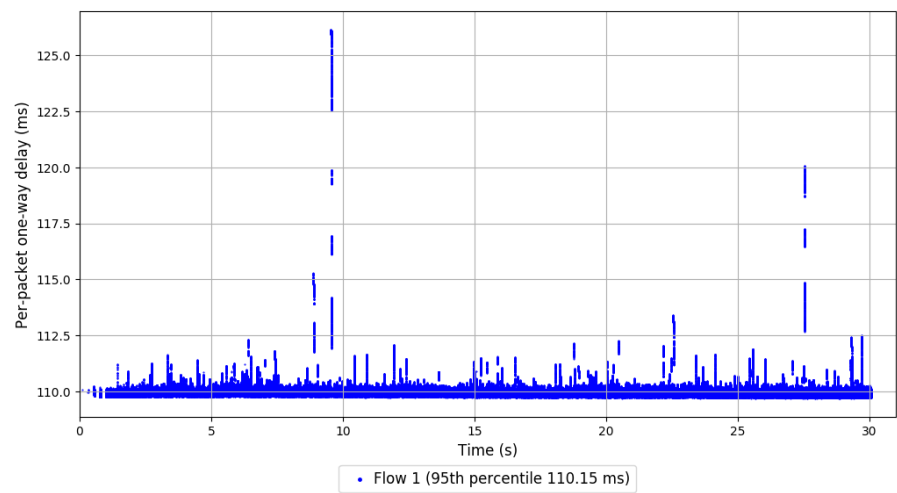
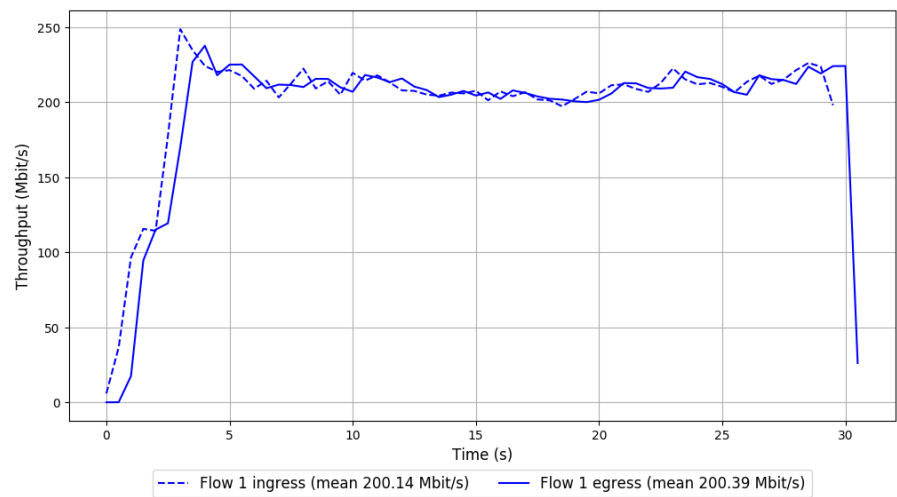
-- Flow 1:

Average throughput: 200.39 Mbit/s

95th percentile per-packet one-way delay: 110.152 ms

Loss rate: 0.00%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-02-05 00:53:36

End at: 2019-02-05 00:54:06

Local clock offset: 9.758 ms

Remote clock offset: 9.731 ms

Below is generated by plot.py at 2019-02-05 05:13:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 379.41 Mbit/s

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

Loss rate: 0.00%

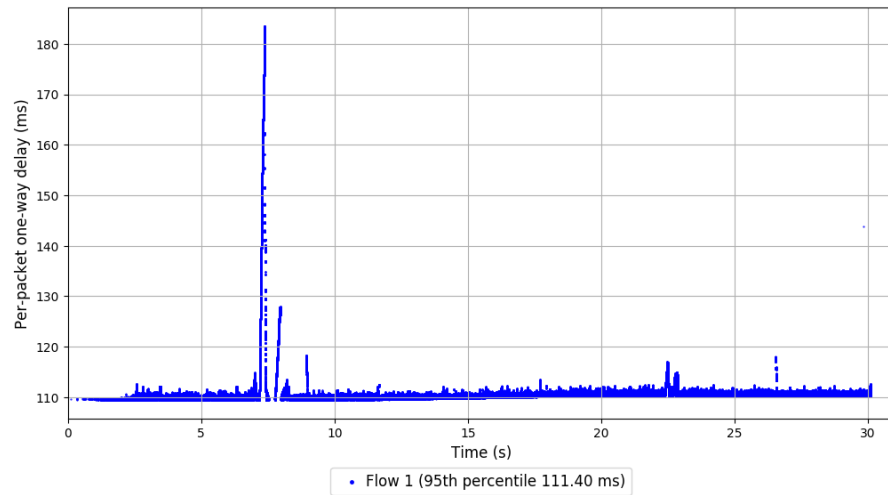
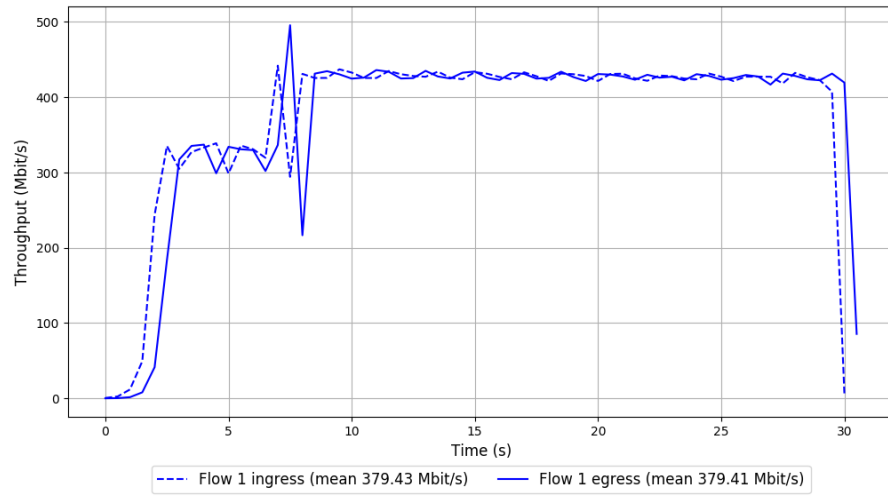
-- Flow 1:

Average throughput: 379.41 Mbit/s

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

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link

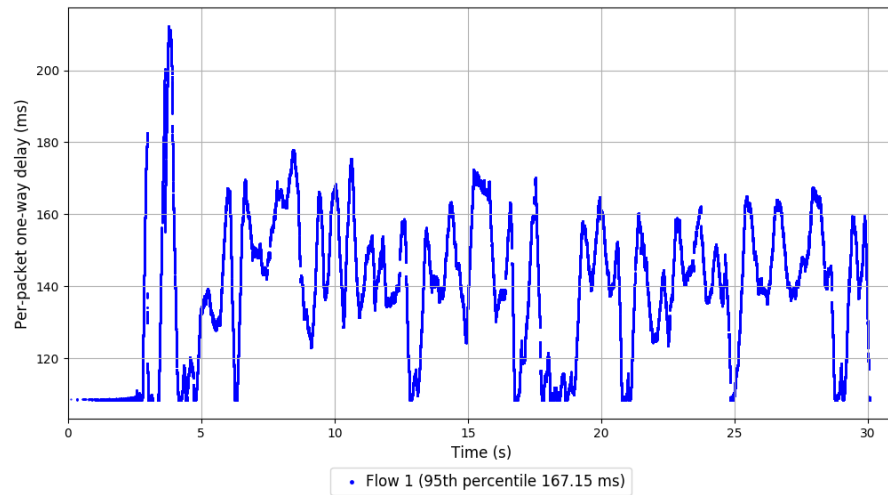
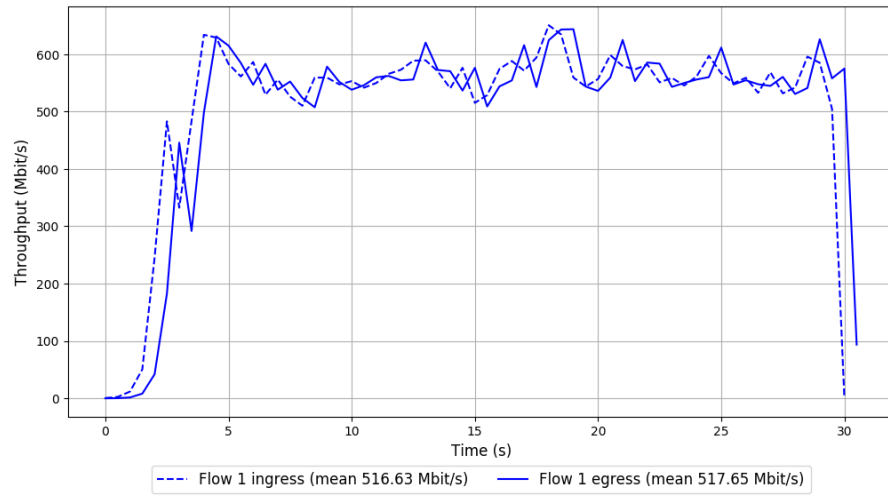


Run 2: Statistics of TCP Vegas

Start at: 2019-02-05 01:25:20
End at: 2019-02-05 01:25:50
Local clock offset: 19.337 ms
Remote clock offset: 17.841 ms

Below is generated by plot.py at 2019-02-05 05:18:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 517.65 Mbit/s
95th percentile per-packet one-way delay: 167.152 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 517.65 Mbit/s
95th percentile per-packet one-way delay: 167.152 ms
Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link

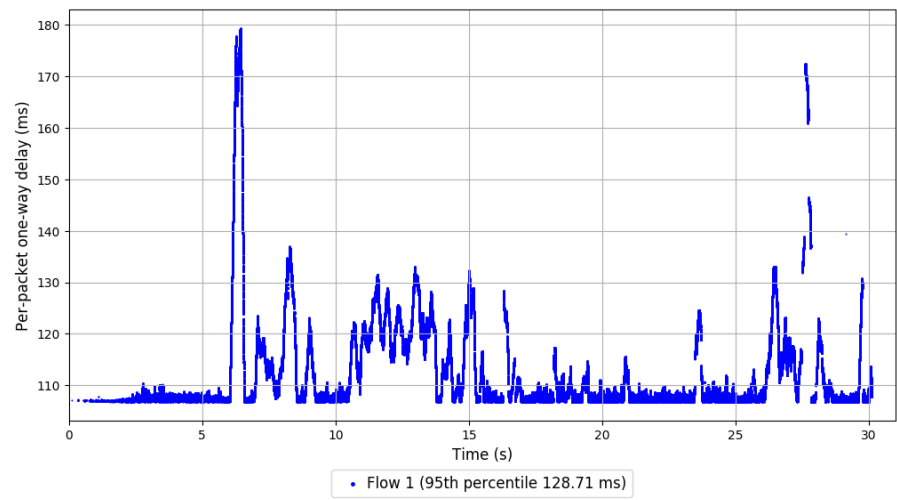
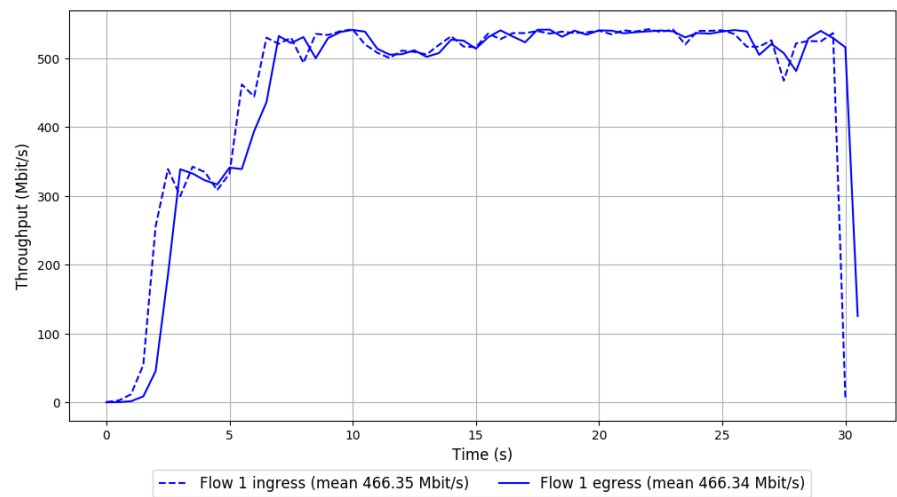


Run 3: Statistics of TCP Vegas

Start at: 2019-02-05 01:57:24
End at: 2019-02-05 01:57:54
Local clock offset: 27.577 ms
Remote clock offset: 24.601 ms

Below is generated by plot.py at 2019-02-05 05:19:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 466.34 Mbit/s
95th percentile per-packet one-way delay: 128.706 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 466.34 Mbit/s
95th percentile per-packet one-way delay: 128.706 ms
Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link

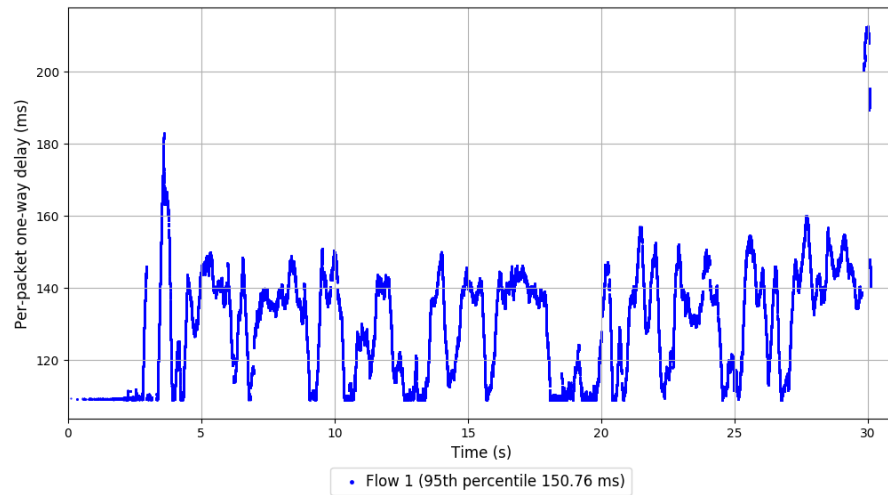
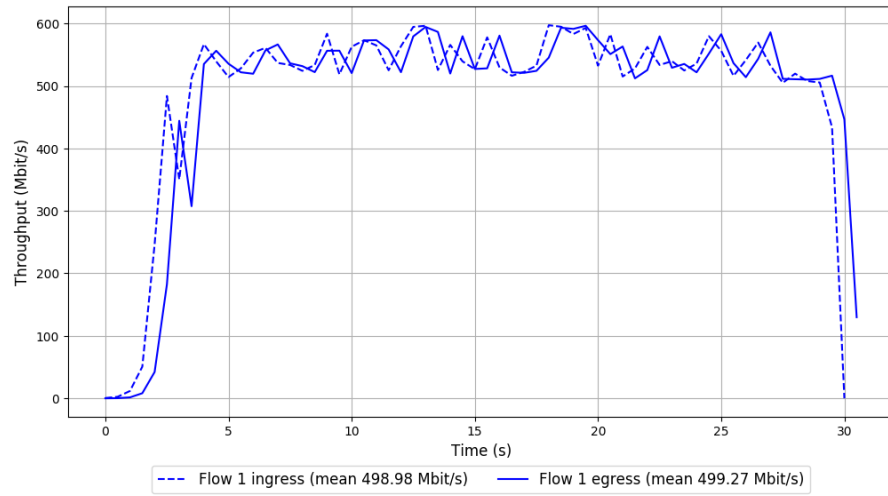


Run 4: Statistics of TCP Vegas

Start at: 2019-02-05 02:29:30
End at: 2019-02-05 02:30:00
Local clock offset: 15.716 ms
Remote clock offset: 14.893 ms

Below is generated by plot.py at 2019-02-05 05:19:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 499.27 Mbit/s
95th percentile per-packet one-way delay: 150.765 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 499.27 Mbit/s
95th percentile per-packet one-way delay: 150.765 ms
Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-02-05 03:01:23

End at: 2019-02-05 03:01:53

Local clock offset: 3.743 ms

Remote clock offset: 8.084 ms

Below is generated by plot.py at 2019-02-05 05:19:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 374.30 Mbit/s

95th percentile per-packet one-way delay: 109.966 ms

Loss rate: 0.00%

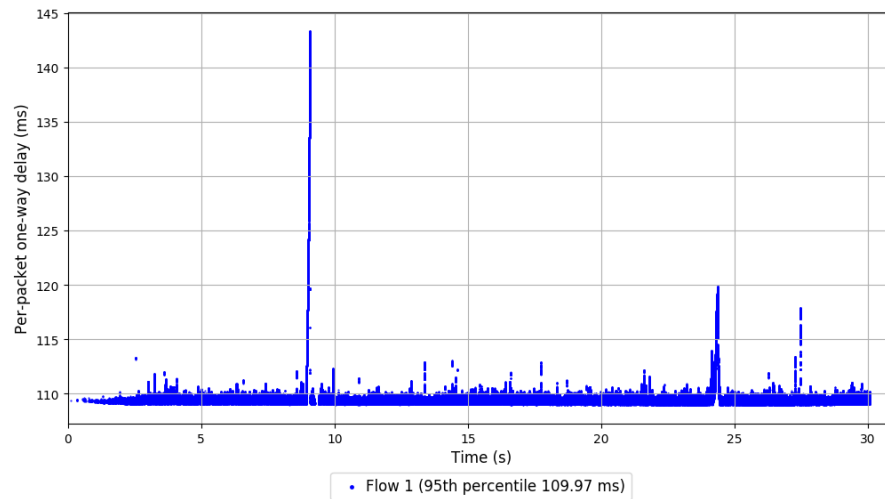
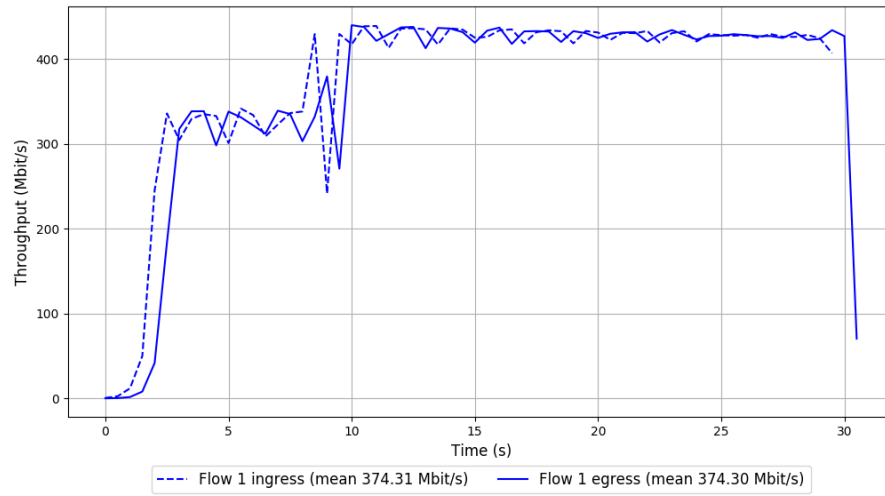
-- Flow 1:

Average throughput: 374.30 Mbit/s

95th percentile per-packet one-way delay: 109.966 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link

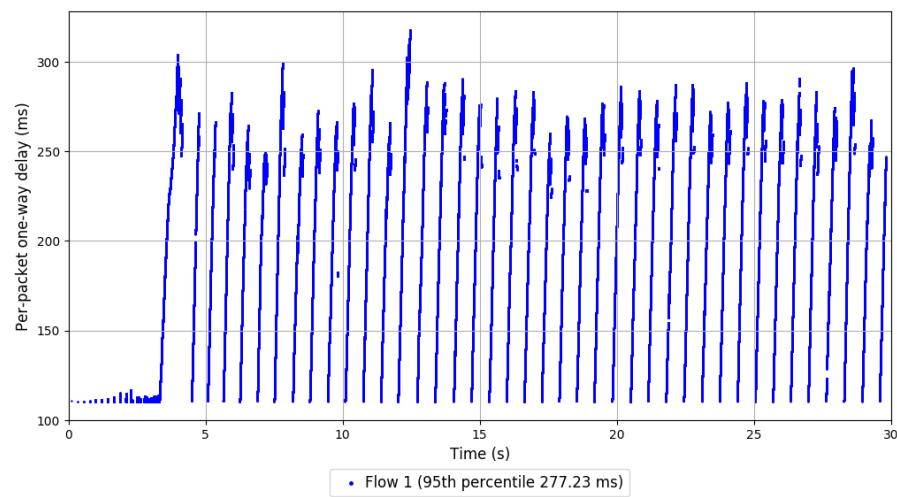
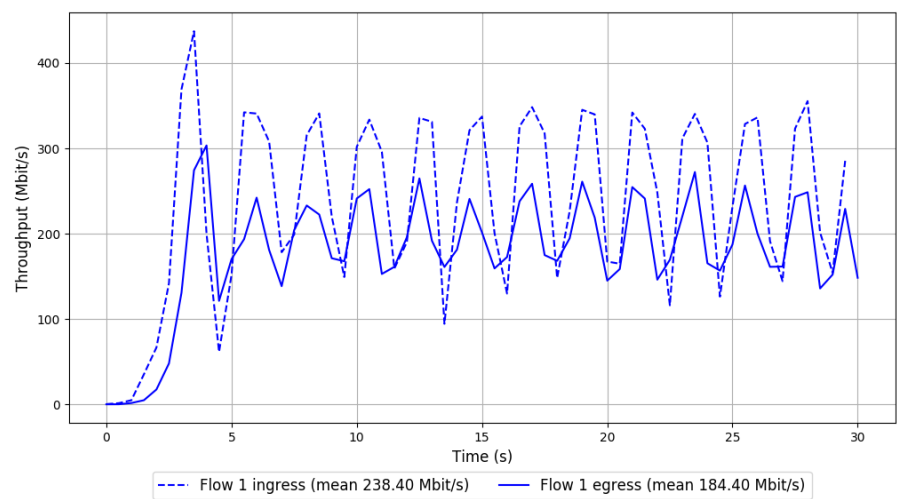


Run 1: Statistics of Verus

Start at: 2019-02-05 01:14:36
End at: 2019-02-05 01:15:06
Local clock offset: 17.043 ms
Remote clock offset: 17.405 ms

Below is generated by plot.py at 2019-02-05 05:19:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 184.40 Mbit/s
95th percentile per-packet one-way delay: 277.229 ms
Loss rate: 22.65%
-- Flow 1:
Average throughput: 184.40 Mbit/s
95th percentile per-packet one-way delay: 277.229 ms
Loss rate: 22.65%

Run 1: Report of Verus — Data Link

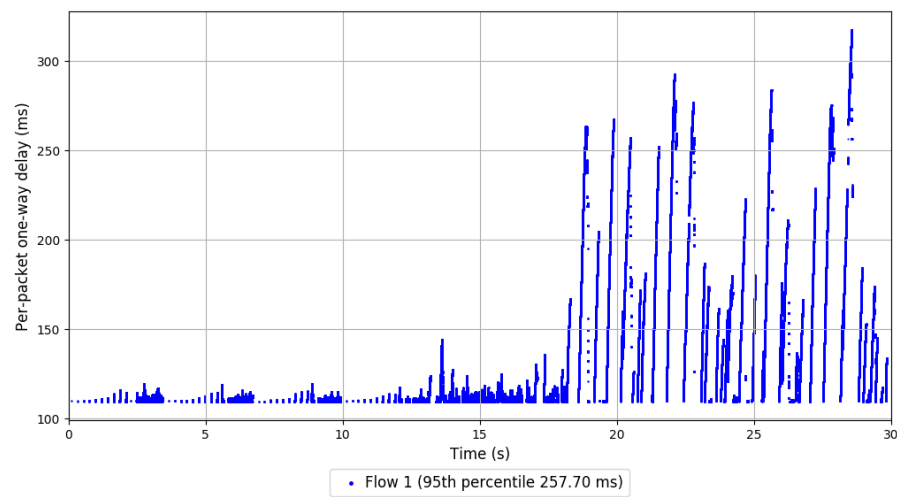
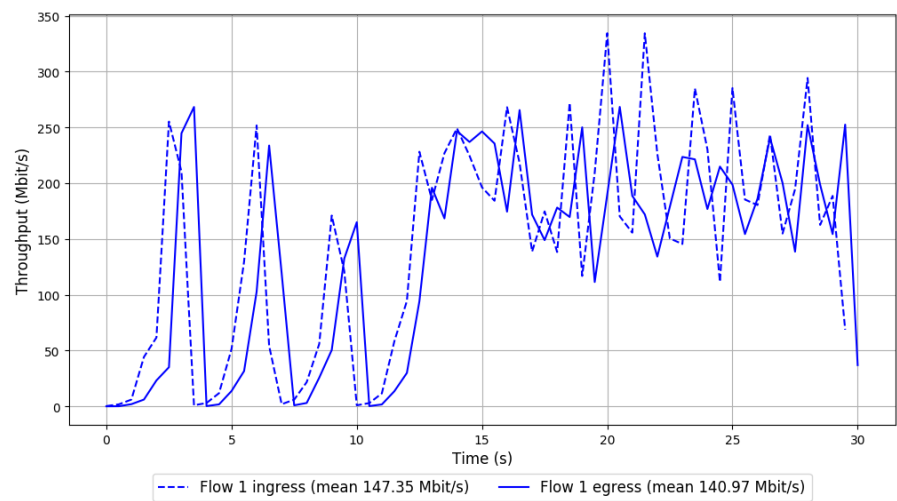


Run 2: Statistics of Verus

Start at: 2019-02-05 01:46:44
End at: 2019-02-05 01:47:14
Local clock offset: 29.248 ms
Remote clock offset: 28.459 ms

Below is generated by plot.py at 2019-02-05 05:19:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 140.97 Mbit/s
95th percentile per-packet one-way delay: 257.700 ms
Loss rate: 4.33%
-- Flow 1:
Average throughput: 140.97 Mbit/s
95th percentile per-packet one-way delay: 257.700 ms
Loss rate: 4.33%

Run 2: Report of Verus — Data Link

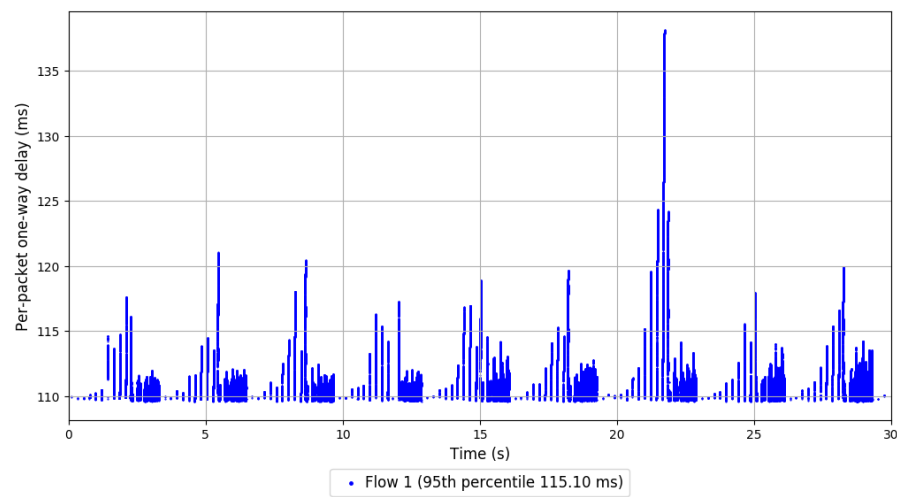
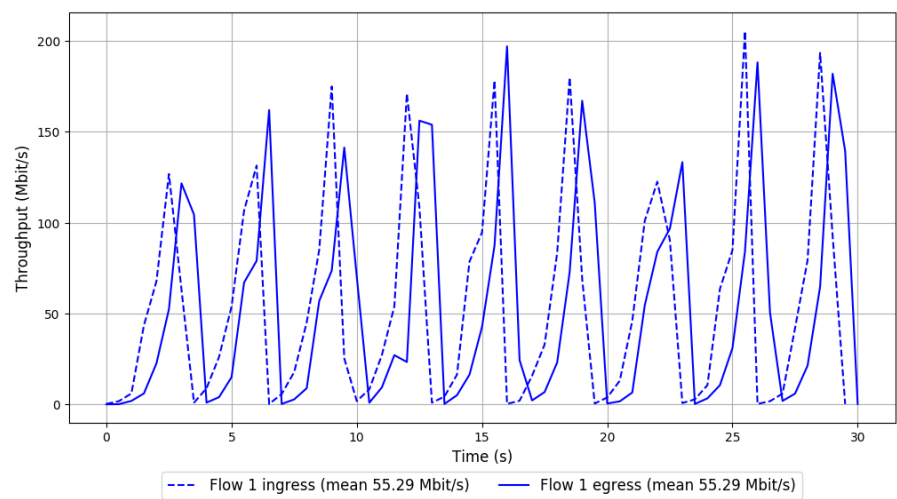


Run 3: Statistics of Verus

Start at: 2019-02-05 02:19:03
End at: 2019-02-05 02:19:33
Local clock offset: 14.677 ms
Remote clock offset: 14.476 ms

Below is generated by plot.py at 2019-02-05 05:19:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 55.29 Mbit/s
95th percentile per-packet one-way delay: 115.104 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.29 Mbit/s
95th percentile per-packet one-way delay: 115.104 ms
Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-02-05 02:50:57

End at: 2019-02-05 02:51:27

Local clock offset: 5.213 ms

Remote clock offset: 6.788 ms

Below is generated by plot.py at 2019-02-05 05:19:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.82 Mbit/s

95th percentile per-packet one-way delay: 125.122 ms

Loss rate: 0.00%

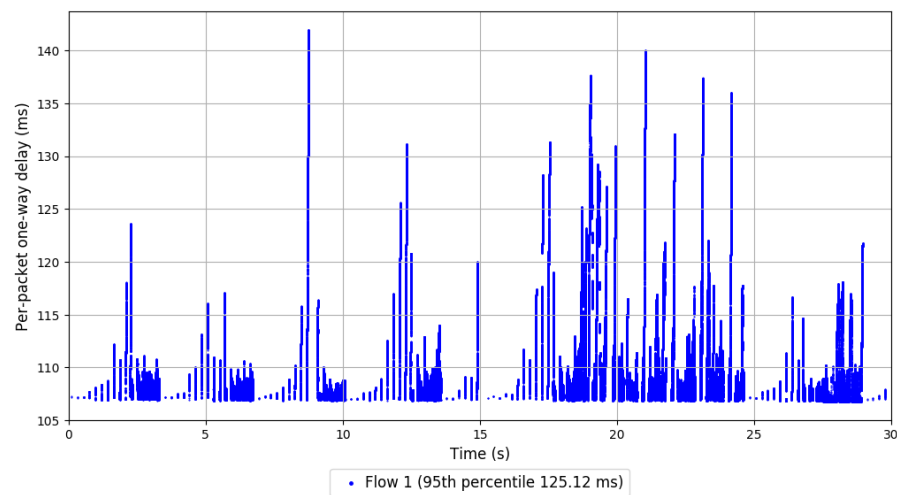
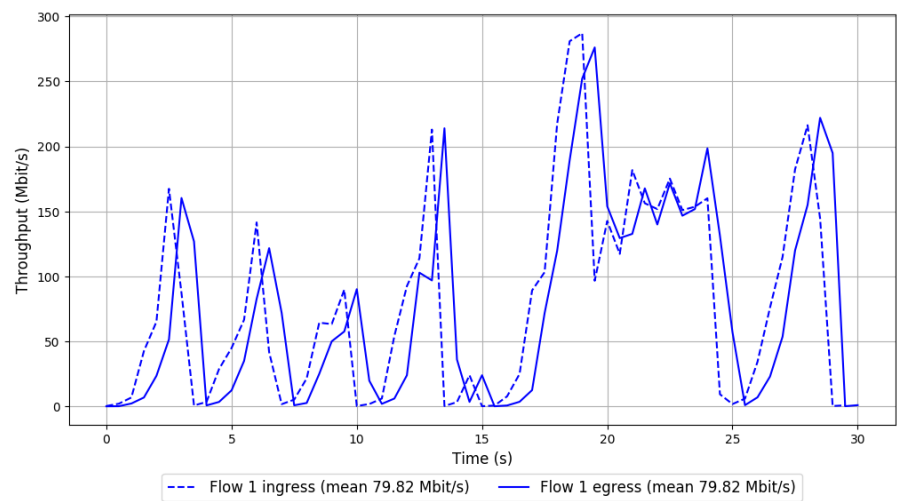
-- Flow 1:

Average throughput: 79.82 Mbit/s

95th percentile per-packet one-way delay: 125.122 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-02-05 03:23:01

End at: 2019-02-05 03:23:31

Local clock offset: 0.707 ms

Remote clock offset: 1.528 ms

Below is generated by plot.py at 2019-02-05 05:19:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 111.79 Mbit/s

95th percentile per-packet one-way delay: 196.541 ms

Loss rate: 0.13%

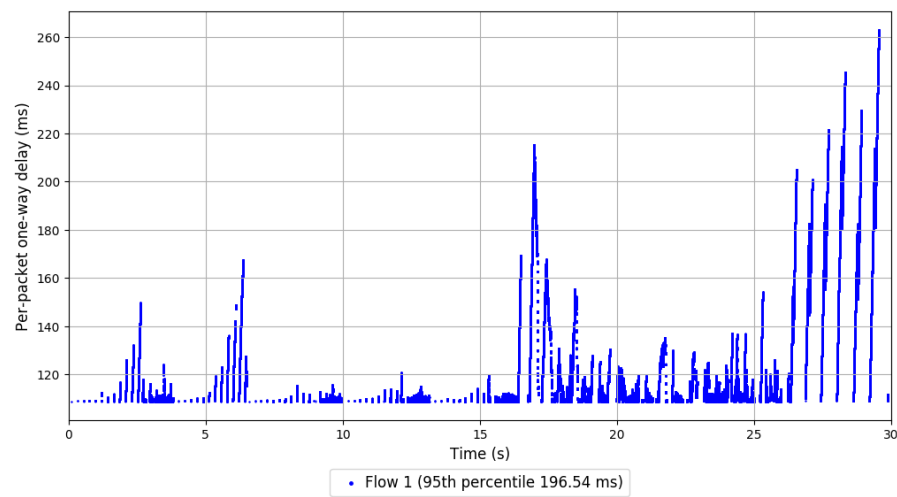
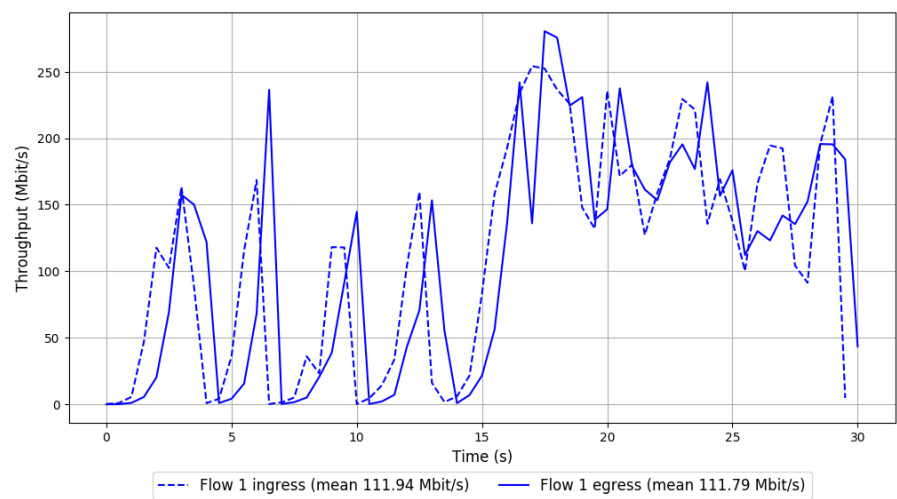
-- Flow 1:

Average throughput: 111.79 Mbit/s

95th percentile per-packet one-way delay: 196.541 ms

Loss rate: 0.13%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-02-05 01:16:06

End at: 2019-02-05 01:16:36

Local clock offset: 19.06 ms

Remote clock offset: 19.202 ms

Below is generated by plot.py at 2019-02-05 05:22:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 369.41 Mbit/s

95th percentile per-packet one-way delay: 141.546 ms

Loss rate: 0.27%

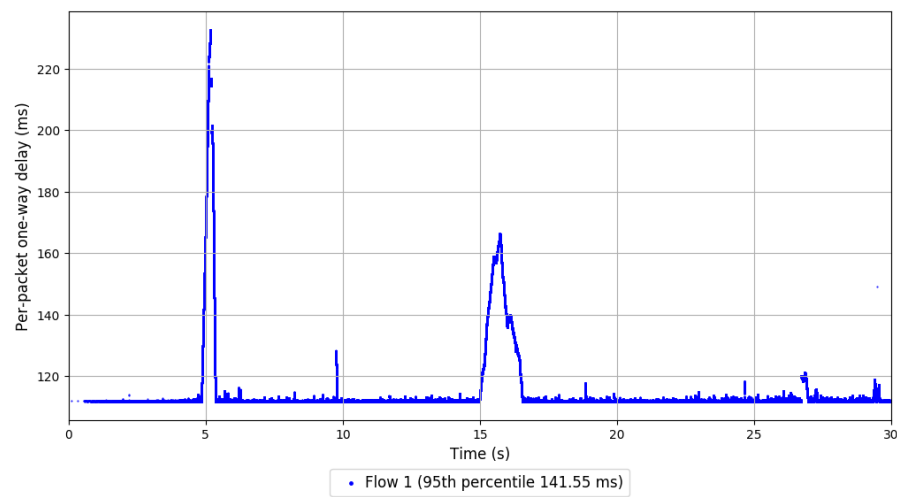
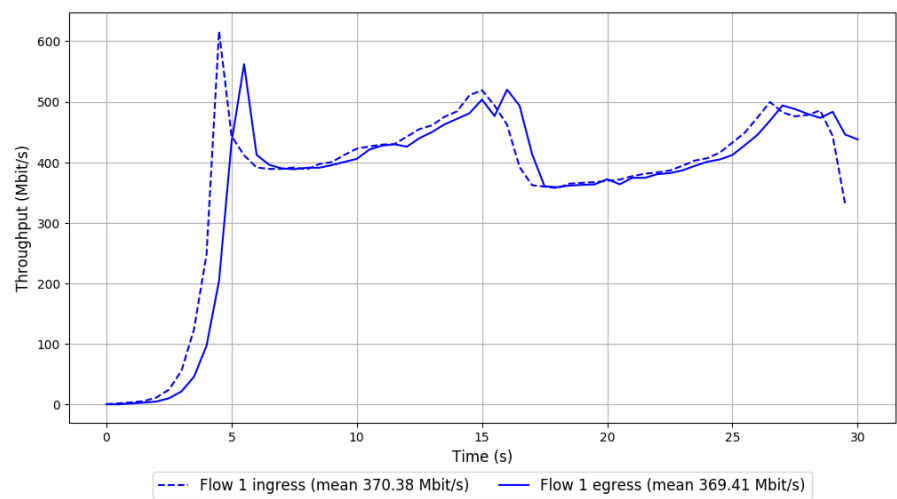
-- Flow 1:

Average throughput: 369.41 Mbit/s

95th percentile per-packet one-way delay: 141.546 ms

Loss rate: 0.27%

Run 1: Report of PCC-Vivace — Data Link

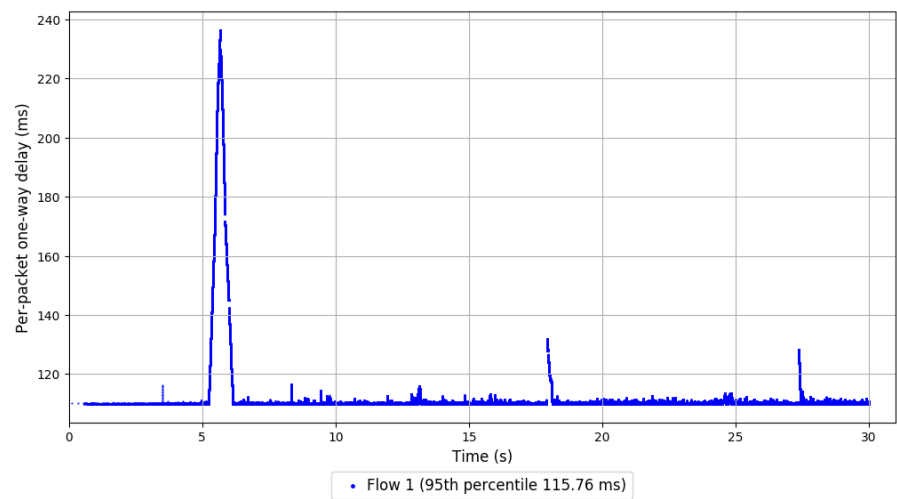
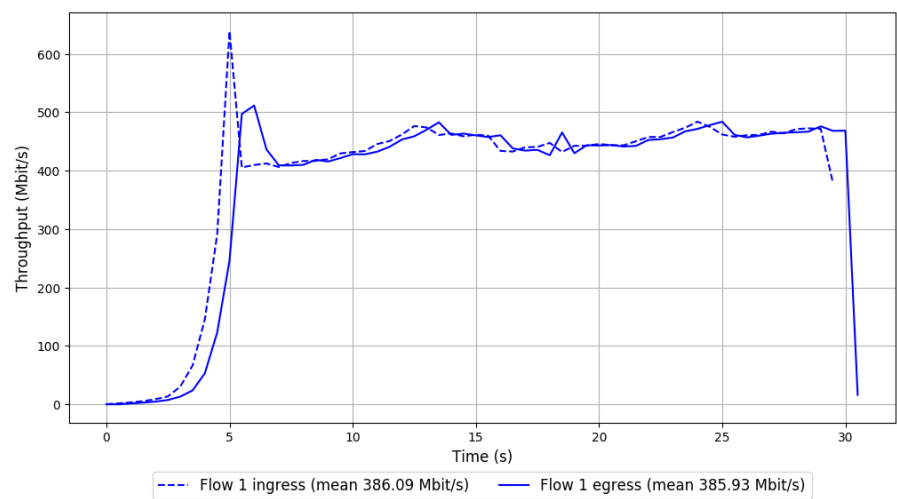


Run 2: Statistics of PCC-Vivace

Start at: 2019-02-05 01:48:08
End at: 2019-02-05 01:48:38
Local clock offset: 30.177 ms
Remote clock offset: 29.762 ms

Below is generated by plot.py at 2019-02-05 05:22:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 385.93 Mbit/s
95th percentile per-packet one-way delay: 115.757 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 385.93 Mbit/s
95th percentile per-packet one-way delay: 115.757 ms
Loss rate: 0.04%

Run 2: Report of PCC-Vivace — Data Link

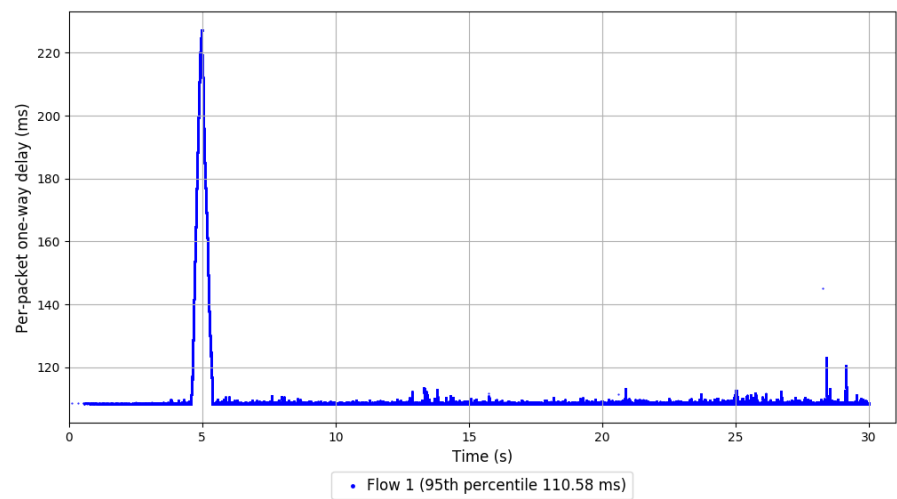
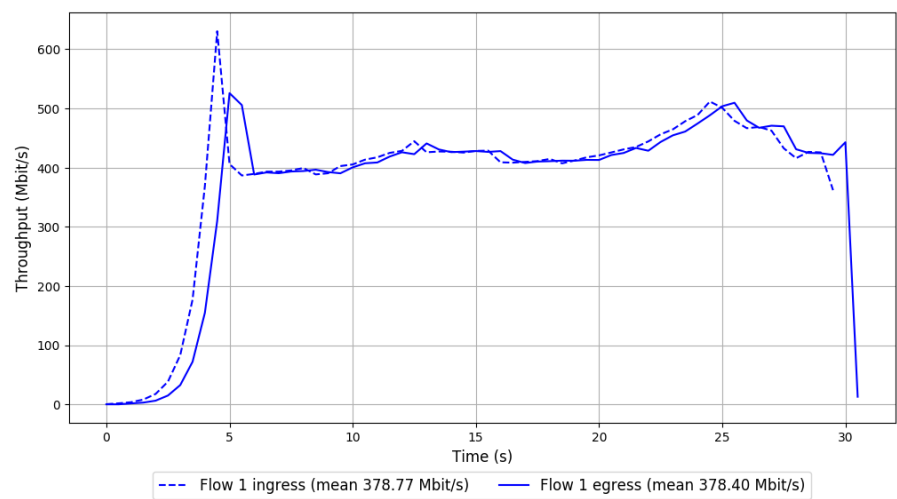


Run 3: Statistics of PCC-Vivace

Start at: 2019-02-05 02:20:19
End at: 2019-02-05 02:20:49
Local clock offset: 15.302 ms
Remote clock offset: 14.548 ms

Below is generated by plot.py at 2019-02-05 05:22:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 378.40 Mbit/s
95th percentile per-packet one-way delay: 110.578 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 378.40 Mbit/s
95th percentile per-packet one-way delay: 110.578 ms
Loss rate: 0.10%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-02-05 02:52:16

End at: 2019-02-05 02:52:46

Local clock offset: 4.495 ms

Remote clock offset: 6.924 ms

Below is generated by plot.py at 2019-02-05 05:22:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 359.52 Mbit/s

95th percentile per-packet one-way delay: 130.911 ms

Loss rate: 0.01%

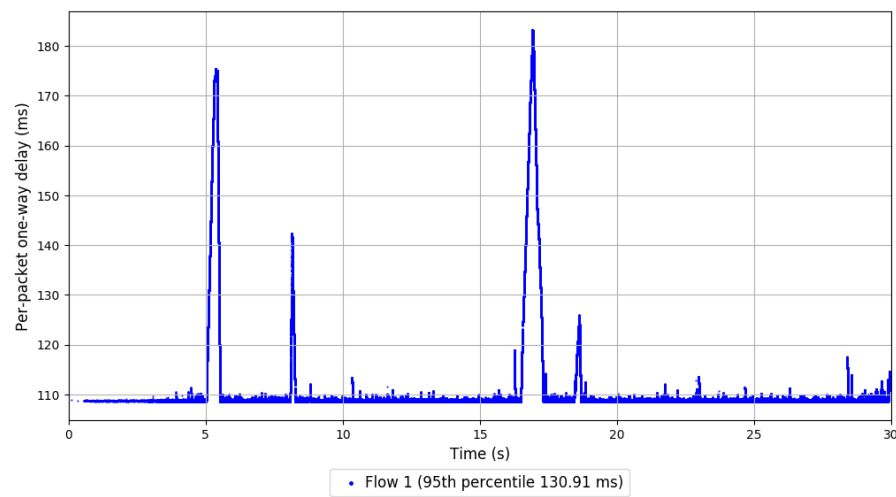
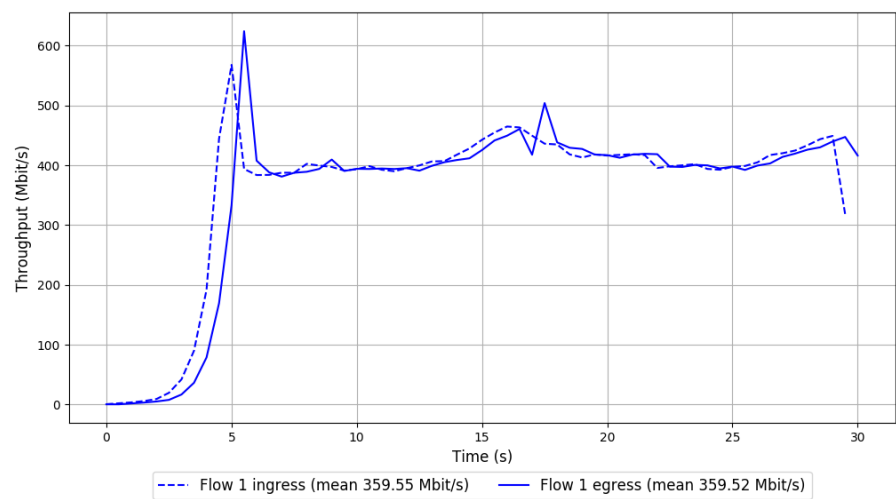
-- Flow 1:

Average throughput: 359.52 Mbit/s

95th percentile per-packet one-way delay: 130.911 ms

Loss rate: 0.01%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-02-05 03:24:22

End at: 2019-02-05 03:24:52

Local clock offset: 0.915 ms

Remote clock offset: 1.891 ms

Below is generated by plot.py at 2019-02-05 05:22:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 352.79 Mbit/s

95th percentile per-packet one-way delay: 114.715 ms

Loss rate: 0.00%

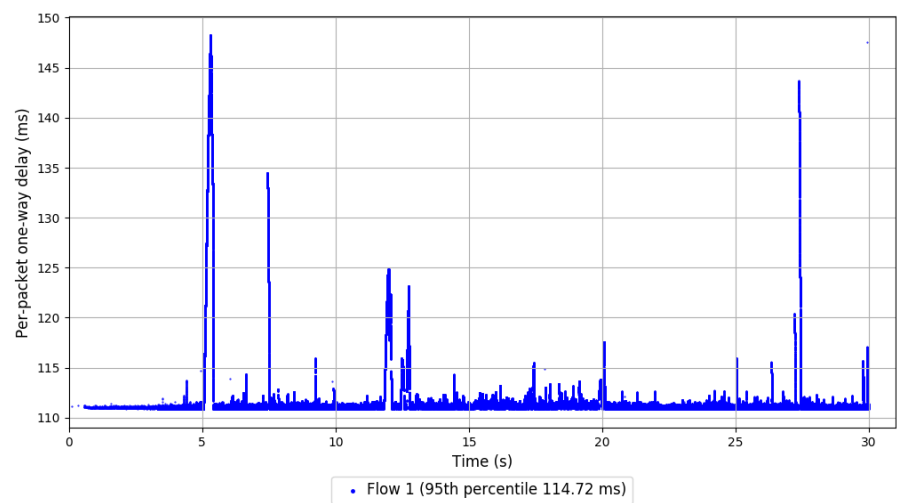
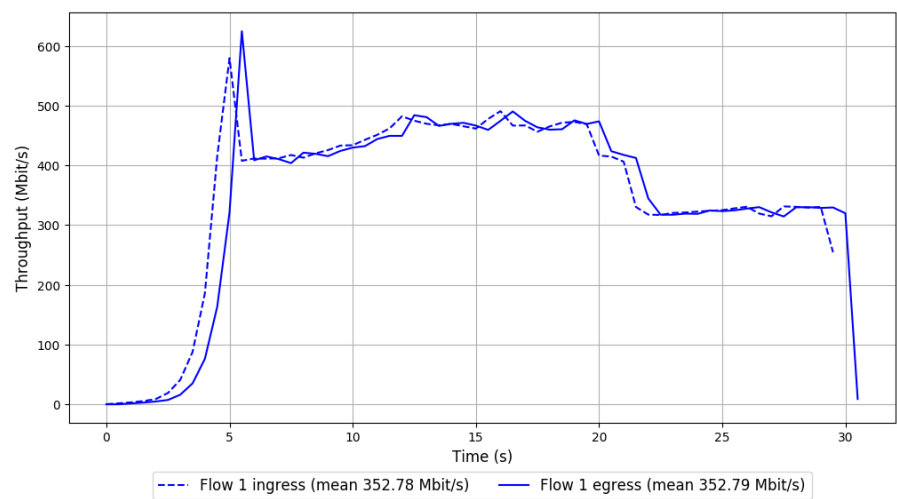
-- Flow 1:

Average throughput: 352.79 Mbit/s

95th percentile per-packet one-way delay: 114.715 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link

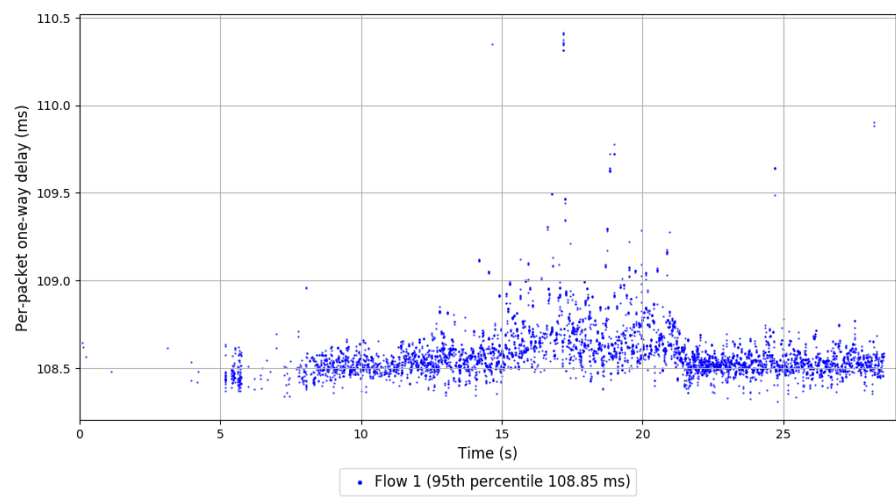
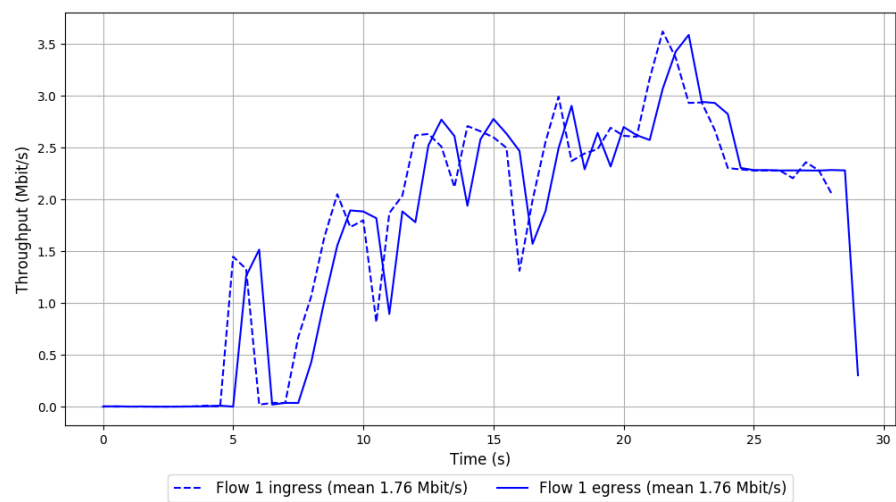


Run 1: Statistics of WebRTC media

Start at: 2019-02-05 01:17:43
End at: 2019-02-05 01:18:13
Local clock offset: 21.874 ms
Remote clock offset: 21.272 ms

Below is generated by plot.py at 2019-02-05 05:22:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.76 Mbit/s
95th percentile per-packet one-way delay: 108.854 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.76 Mbit/s
95th percentile per-packet one-way delay: 108.854 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

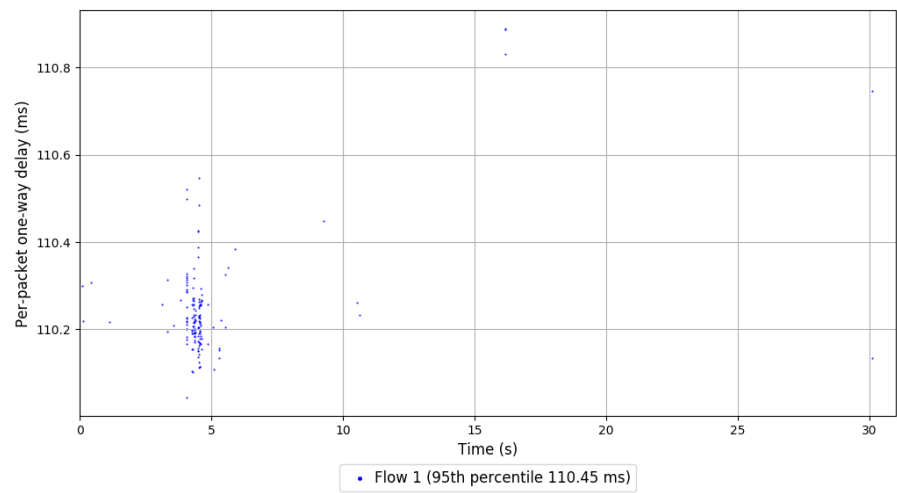
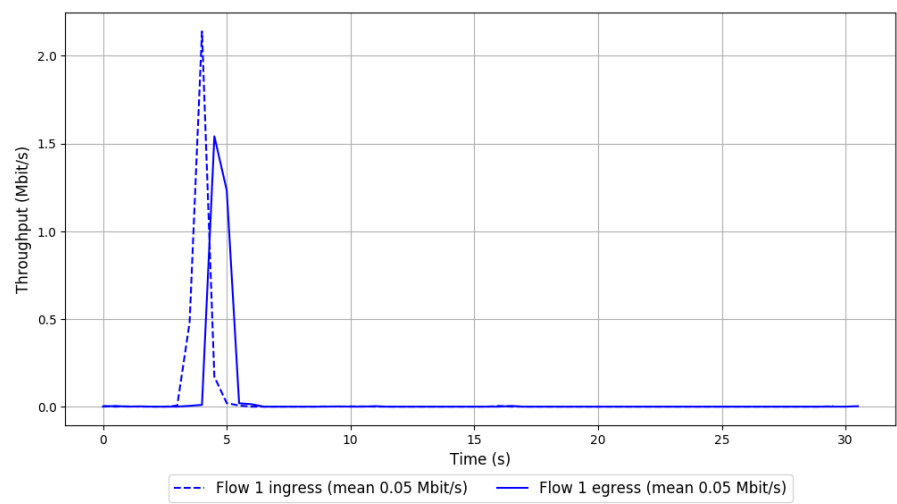


Run 2: Statistics of WebRTC media

Start at: 2019-02-05 01:49:47
End at: 2019-02-05 01:50:17
Local clock offset: 31.002 ms
Remote clock offset: 31.363 ms

Below is generated by plot.py at 2019-02-05 05:22:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 110.449 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 110.449 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

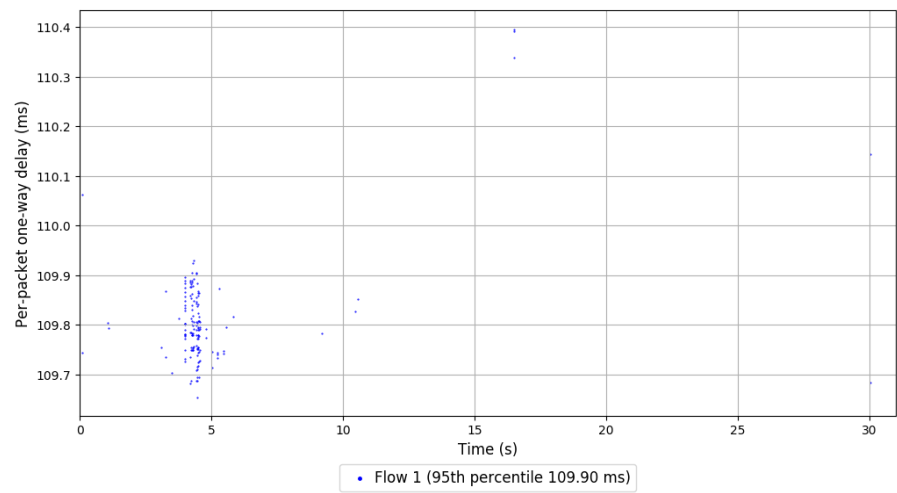
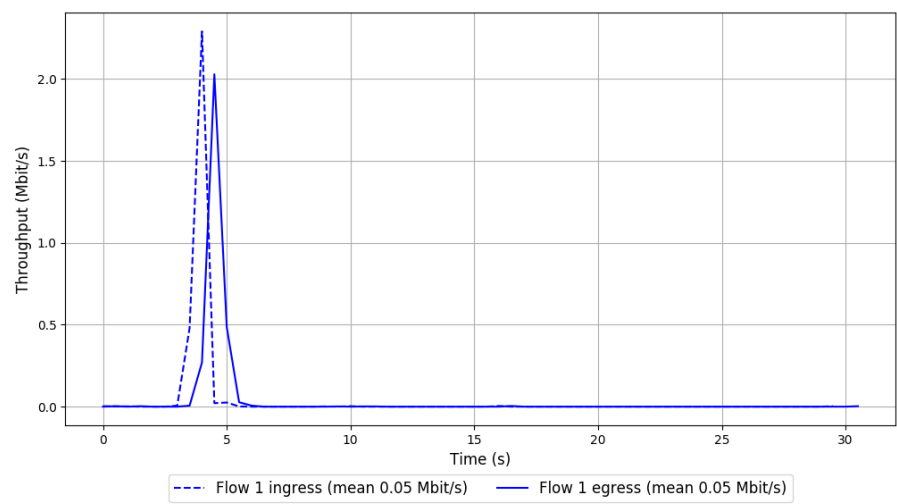


Run 3: Statistics of WebRTC media

Start at: 2019-02-05 02:21:56
End at: 2019-02-05 02:22:26
Local clock offset: 15.667 ms
Remote clock offset: 15.455 ms

Below is generated by plot.py at 2019-02-05 05:22:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.904 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.904 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-02-05 02:53:52

End at: 2019-02-05 02:54:22

Local clock offset: 3.271 ms

Remote clock offset: 6.784 ms

Below is generated by plot.py at 2019-02-05 05:22:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 109.837 ms

Loss rate: 0.00%

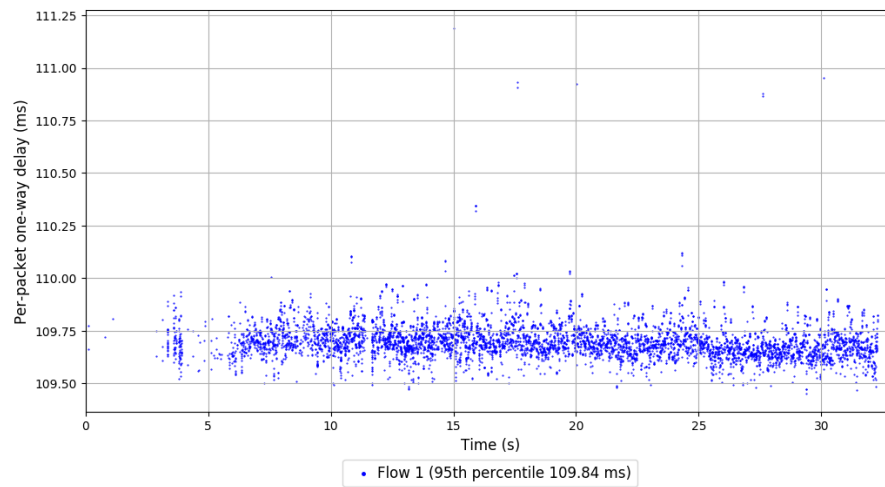
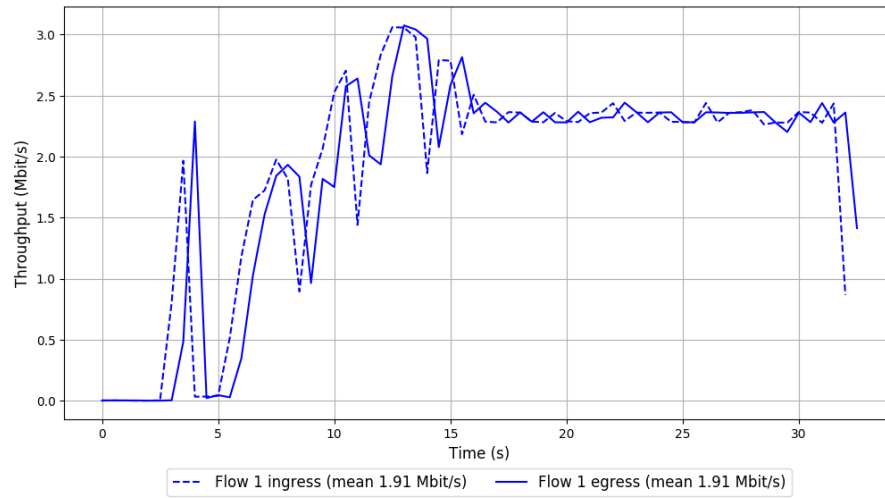
-- Flow 1:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 109.837 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-02-05 03:26:02

End at: 2019-02-05 03:26:32

Local clock offset: 0.772 ms

Remote clock offset: 1.844 ms

Below is generated by plot.py at 2019-02-05 05:22:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 110.055 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 110.055 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

