

Pantheon Report

Generated at 2019-03-09 00:06:08 (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:

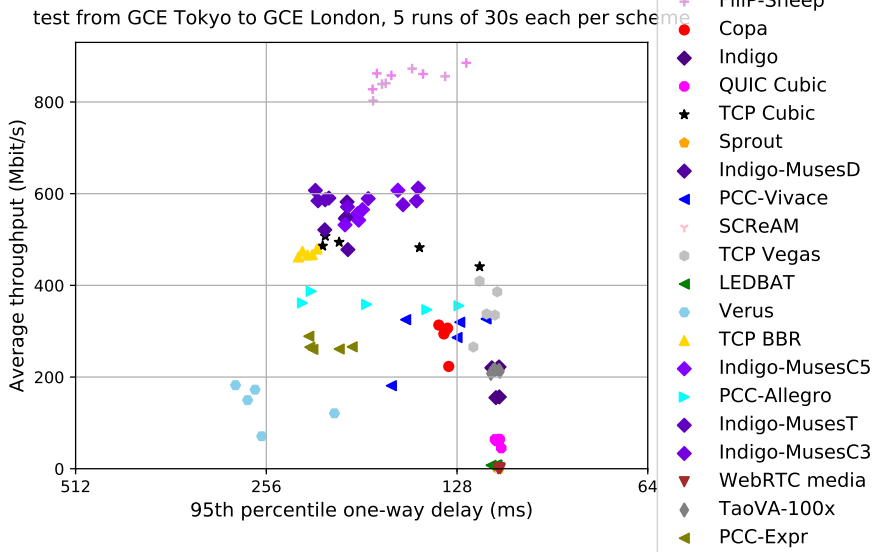
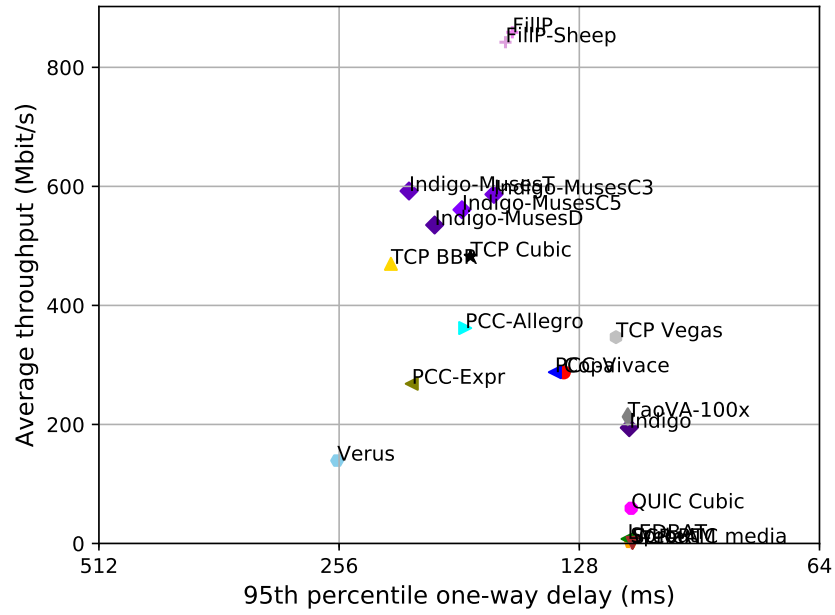
```
Linux 4.15.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

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	469.85	220.44	1.01
Copa	5	287.49	133.85	0.01
TCP Cubic	5	482.16	175.26	0.03
FillP	5	858.87	155.29	0.83
FillP-Sheep	5	842.22	158.39	0.85
Indigo	5	194.51	110.82	0.00
Indigo-MusesC3	5	586.53	163.77	0.18
Indigo-MusesC5	5	560.71	179.61	0.22
Indigo-MusesD	5	535.09	194.32	0.24
Indigo-MusesT	4	592.19	209.24	0.81
LEDBAT	5	7.69	111.38	0.00
PCC-Allegro	5	361.93	177.92	1.40
PCC-Expr	5	268.34	207.60	1.91
QUIC Cubic	5	59.11	110.20	0.00
SCReAM	5	0.22	110.06	0.00
Sprout	5	2.14	110.47	0.00
TaoVA-100x	5	212.94	111.30	0.00
TCP Vegas	5	346.66	115.15	0.00
Verus	5	139.28	257.45	7.37
PCC-Vivace	5	287.79	137.35	0.06
WebRTC media	5	0.83	109.78	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-03-08 19:46:14

End at: 2019-03-08 19:46:44

Local clock offset: 3.631 ms

Remote clock offset: 1.957 ms

Below is generated by plot.py at 2019-03-08 22:39:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 466.29 Mbit/s

95th percentile per-packet one-way delay: 220.438 ms

Loss rate: 1.36%

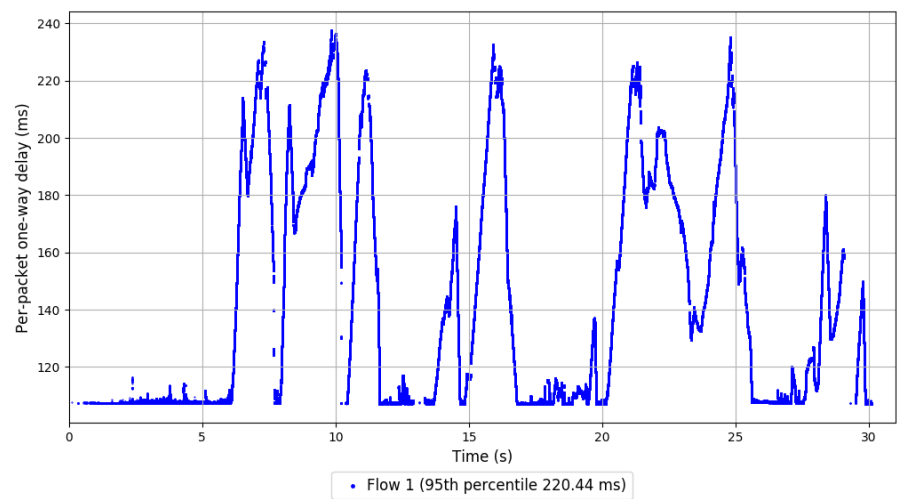
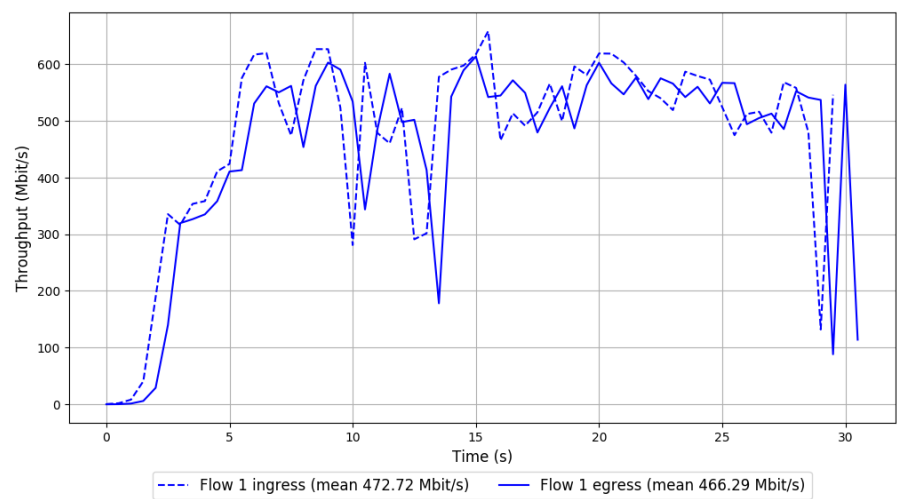
-- Flow 1:

Average throughput: 466.29 Mbit/s

95th percentile per-packet one-way delay: 220.438 ms

Loss rate: 1.36%

Run 1: Report of TCP BBR — Data Link

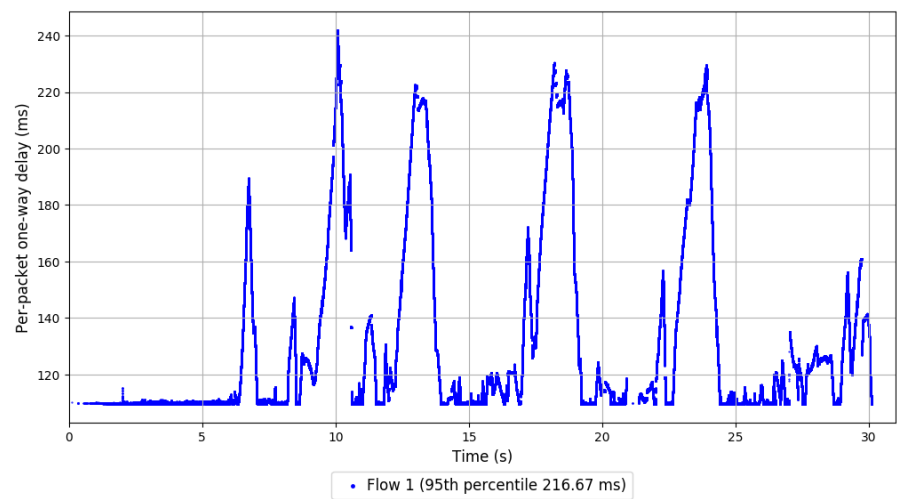
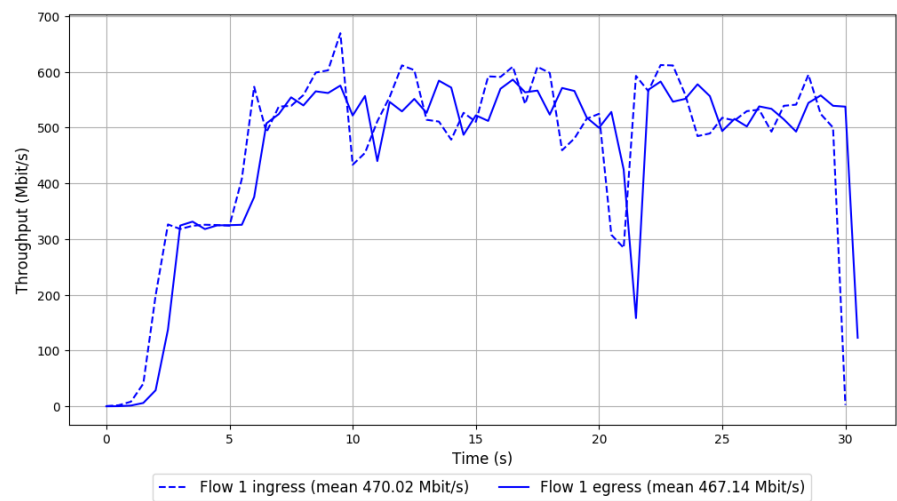


Run 2: Statistics of TCP BBR

Start at: 2019-03-08 20:17:35
End at: 2019-03-08 20:18:05
Local clock offset: 10.724 ms
Remote clock offset: 15.001 ms

Below is generated by plot.py at 2019-03-08 22:40:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 467.14 Mbit/s
95th percentile per-packet one-way delay: 216.666 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 467.14 Mbit/s
95th percentile per-packet one-way delay: 216.666 ms
Loss rate: 0.61%

Run 2: Report of TCP BBR — Data Link

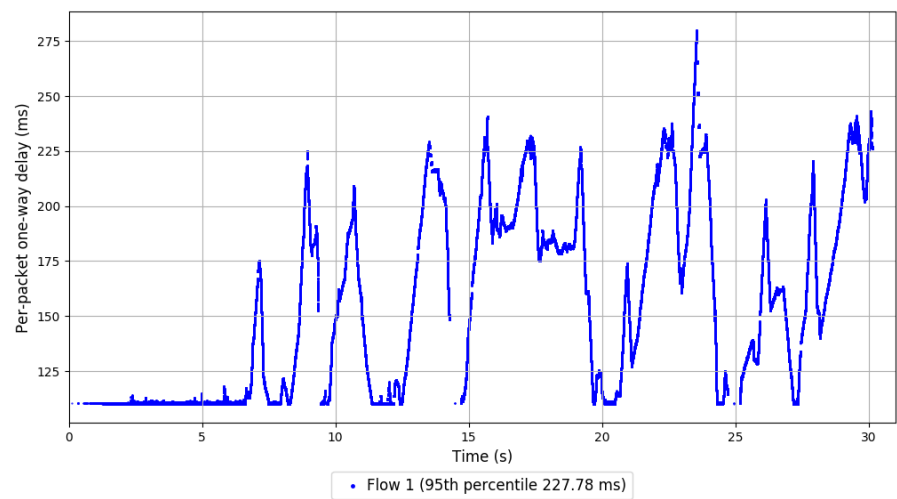
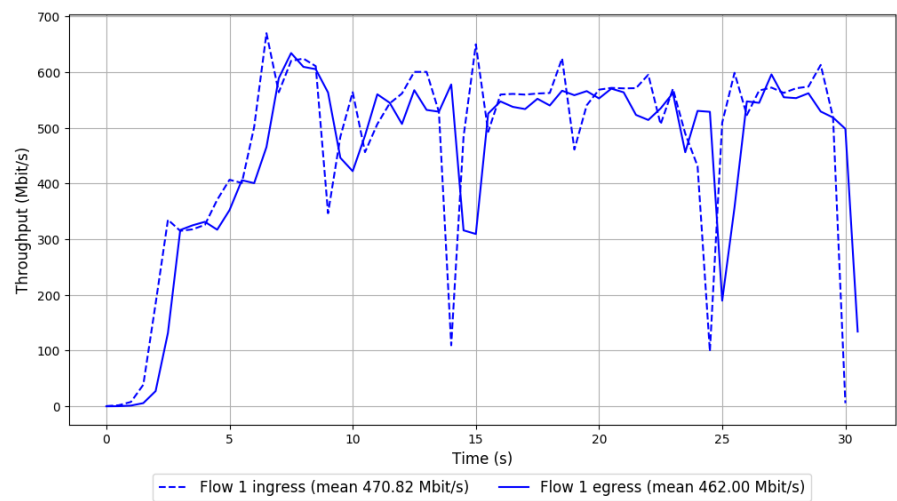


Run 3: Statistics of TCP BBR

Start at: 2019-03-08 20:49:12
End at: 2019-03-08 20:49:42
Local clock offset: 15.839 ms
Remote clock offset: 21.648 ms

Below is generated by plot.py at 2019-03-08 22:40:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 462.00 Mbit/s
95th percentile per-packet one-way delay: 227.784 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 462.00 Mbit/s
95th percentile per-packet one-way delay: 227.784 ms
Loss rate: 1.82%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-03-08 21:20:38

End at: 2019-03-08 21:21:09

Local clock offset: 7.583 ms

Remote clock offset: 10.53 ms

Below is generated by plot.py at 2019-03-08 22:40:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 474.49 Mbit/s

95th percentile per-packet one-way delay: 224.480 ms

Loss rate: 0.90%

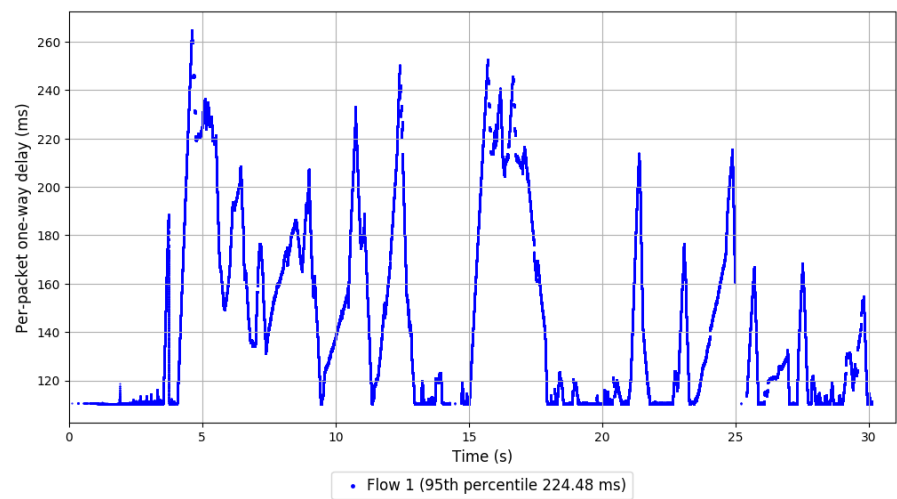
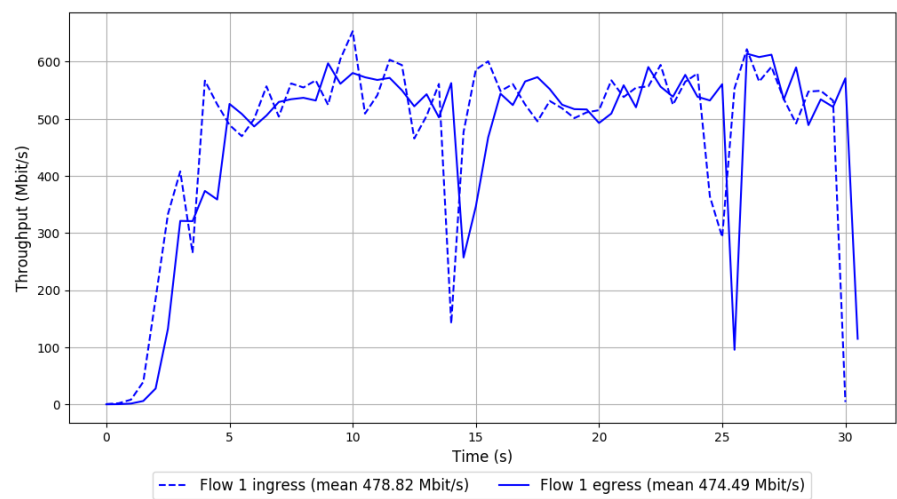
-- Flow 1:

Average throughput: 474.49 Mbit/s

95th percentile per-packet one-way delay: 224.480 ms

Loss rate: 0.90%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-03-08 21:52:17

End at: 2019-03-08 21:52:47

Local clock offset: 3.311 ms

Remote clock offset: 4.607 ms

Below is generated by plot.py at 2019-03-08 22:40:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 479.35 Mbit/s

95th percentile per-packet one-way delay: 212.853 ms

Loss rate: 0.35%

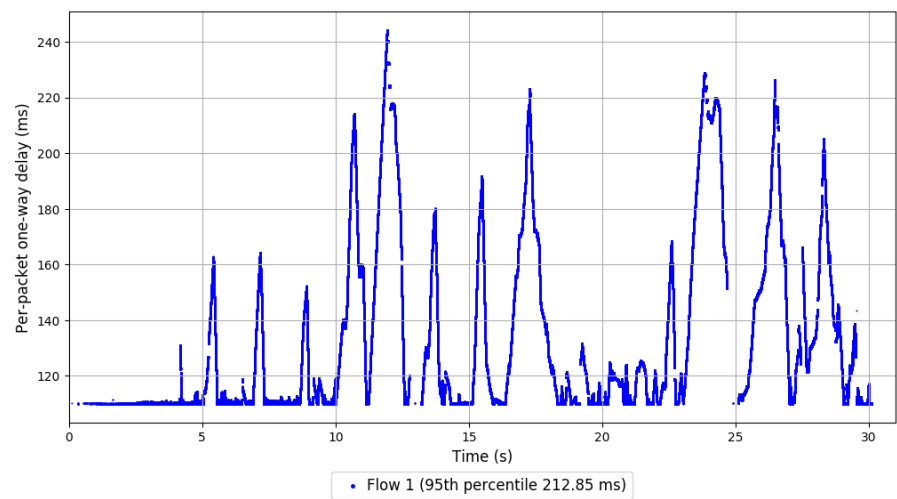
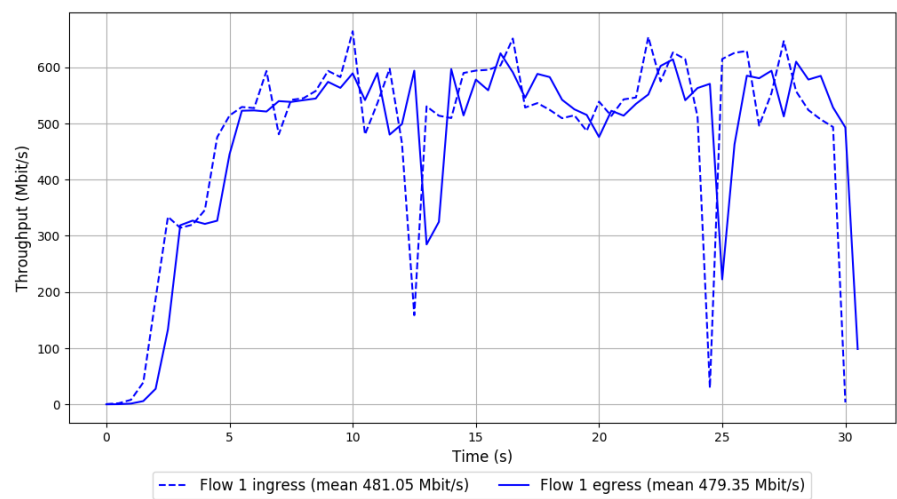
-- Flow 1:

Average throughput: 479.35 Mbit/s

95th percentile per-packet one-way delay: 212.853 ms

Loss rate: 0.35%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-03-08 19:44:31

End at: 2019-03-08 19:45:01

Local clock offset: 3.757 ms

Remote clock offset: 4.91 ms

Below is generated by plot.py at 2019-03-08 22:41:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 313.40 Mbit/s

95th percentile per-packet one-way delay: 136.773 ms

Loss rate: 0.00%

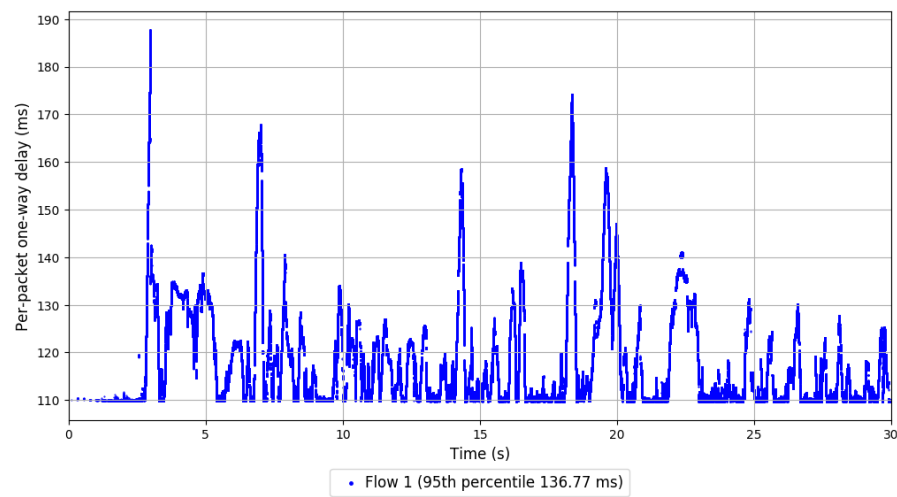
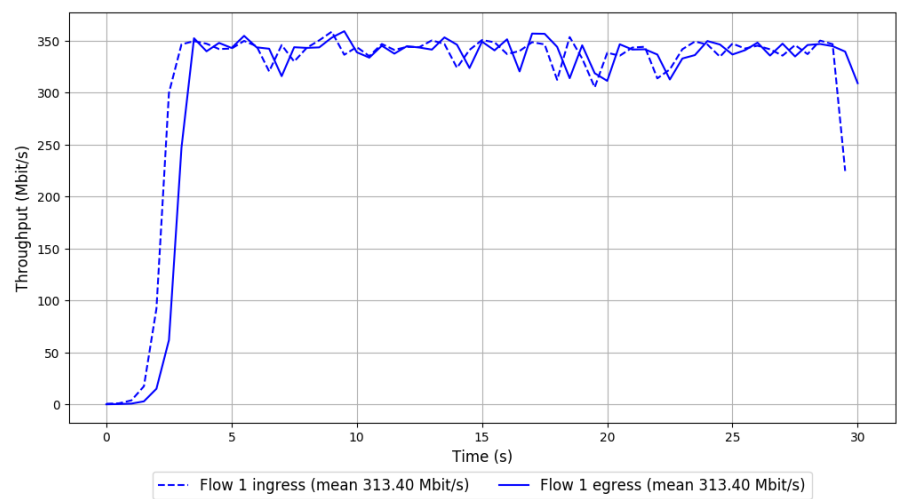
-- Flow 1:

Average throughput: 313.40 Mbit/s

95th percentile per-packet one-way delay: 136.773 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link

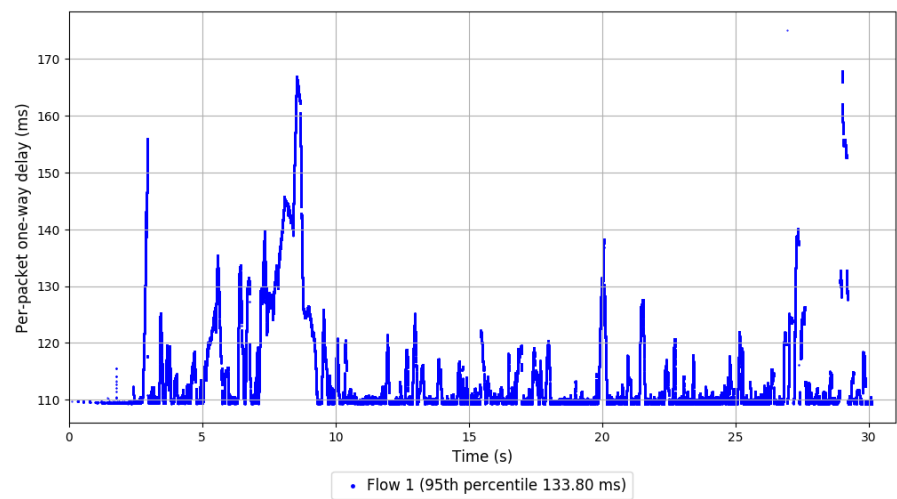
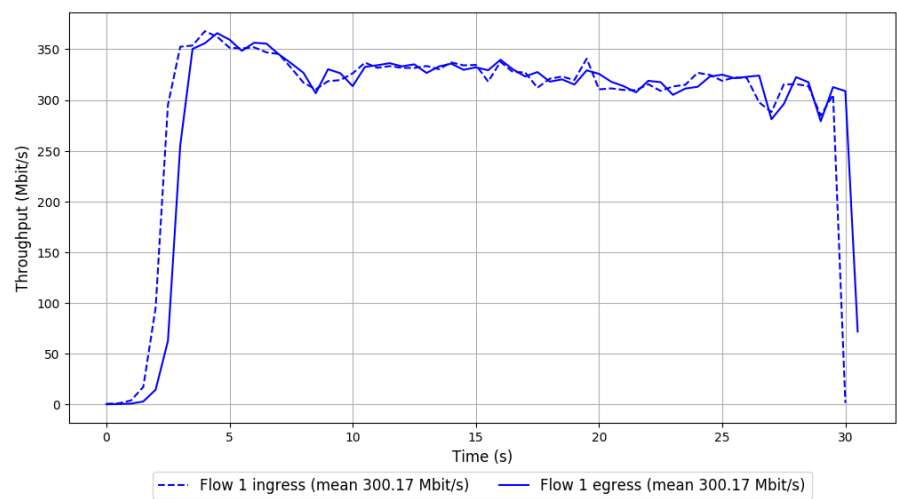


Run 2: Statistics of Copa

Start at: 2019-03-08 20:15:54
End at: 2019-03-08 20:16:24
Local clock offset: 9.929 ms
Remote clock offset: 13.636 ms

Below is generated by plot.py at 2019-03-08 22:41:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 300.17 Mbit/s
95th percentile per-packet one-way delay: 133.796 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 300.17 Mbit/s
95th percentile per-packet one-way delay: 133.796 ms
Loss rate: 0.00%

Run 2: Report of Copa — Data Link

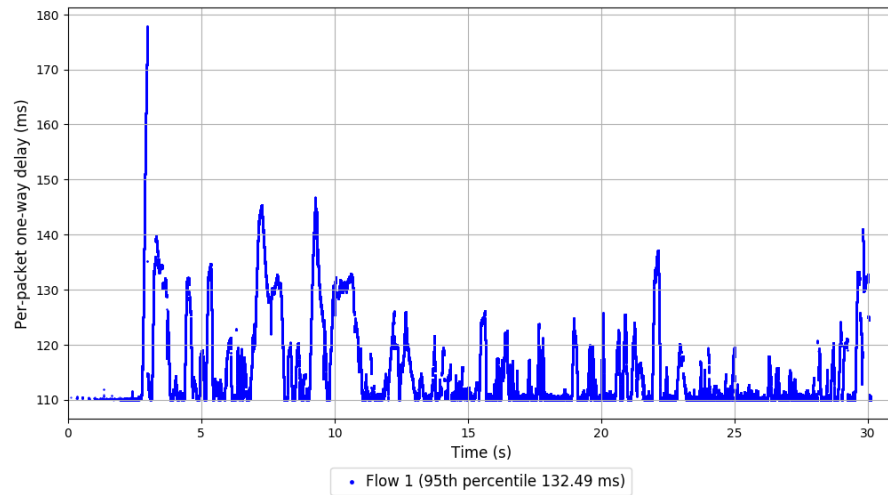
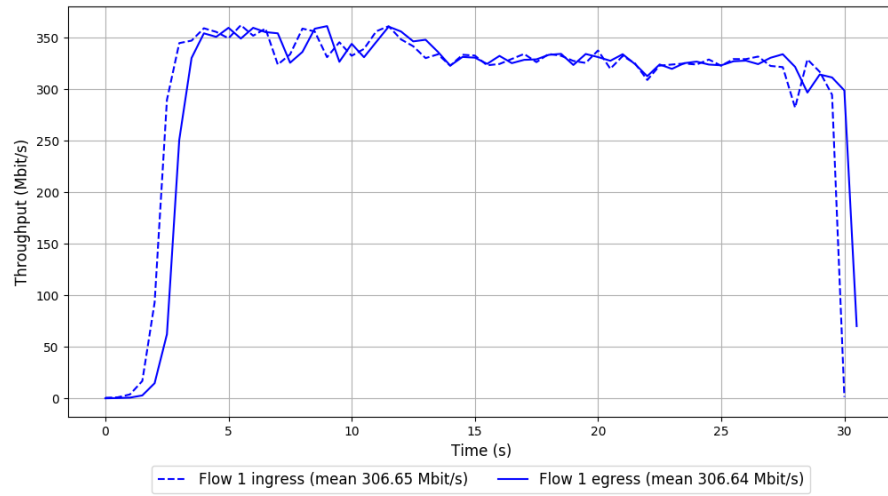


Run 3: Statistics of Copa

Start at: 2019-03-08 20:47:30
End at: 2019-03-08 20:48:00
Local clock offset: 14.986 ms
Remote clock offset: 20.576 ms

Below is generated by plot.py at 2019-03-08 22:41:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 306.64 Mbit/s
95th percentile per-packet one-way delay: 132.487 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 306.64 Mbit/s
95th percentile per-packet one-way delay: 132.487 ms
Loss rate: 0.00%

Run 3: Report of Copa — Data Link

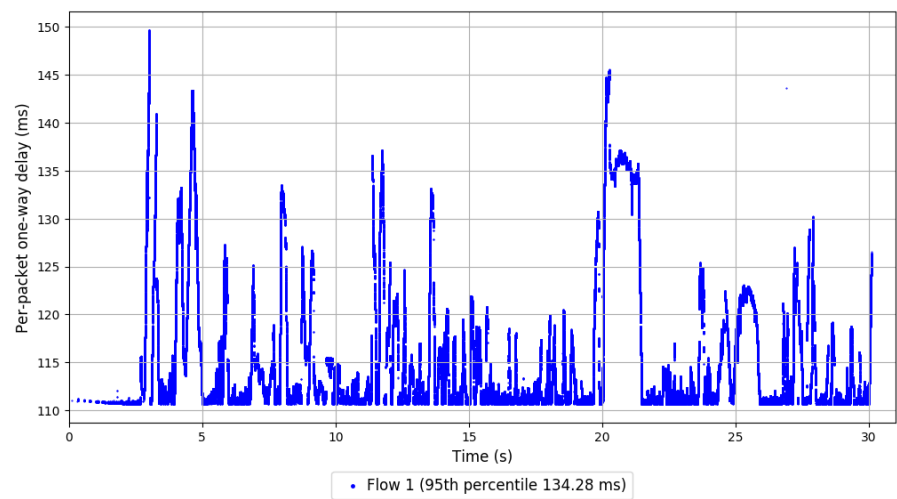
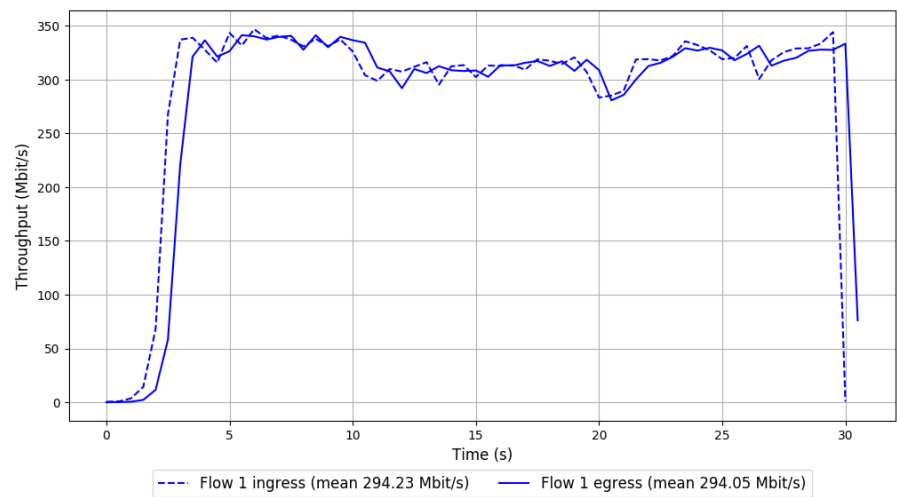


Run 4: Statistics of Copa

Start at: 2019-03-08 21:18:59
End at: 2019-03-08 21:19:29
Local clock offset: 7.976 ms
Remote clock offset: 10.195 ms

Below is generated by plot.py at 2019-03-08 22:48:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 294.05 Mbit/s
95th percentile per-packet one-way delay: 134.275 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 294.05 Mbit/s
95th percentile per-packet one-way delay: 134.275 ms
Loss rate: 0.07%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-03-08 21:50:45

End at: 2019-03-08 21:51:15

Local clock offset: 3.281 ms

Remote clock offset: 4.531 ms

Below is generated by plot.py at 2019-03-08 22:48:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.17 Mbit/s

95th percentile per-packet one-way delay: 131.919 ms

Loss rate: 0.00%

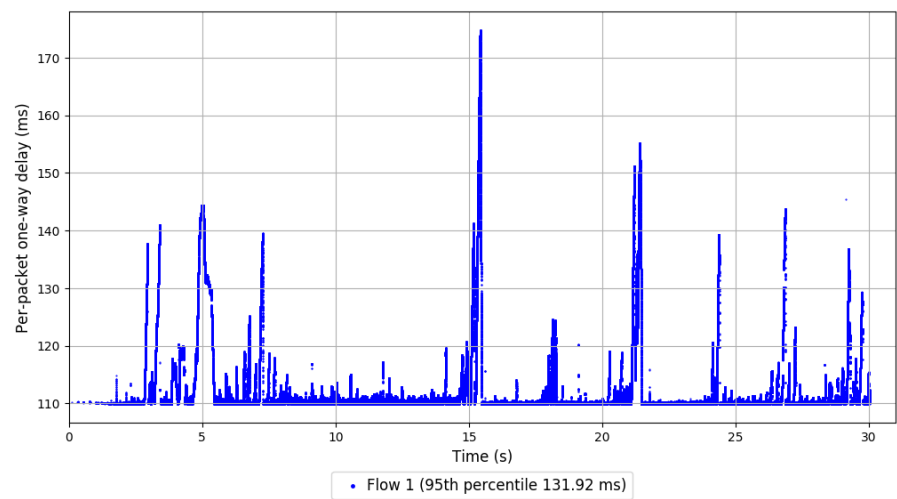
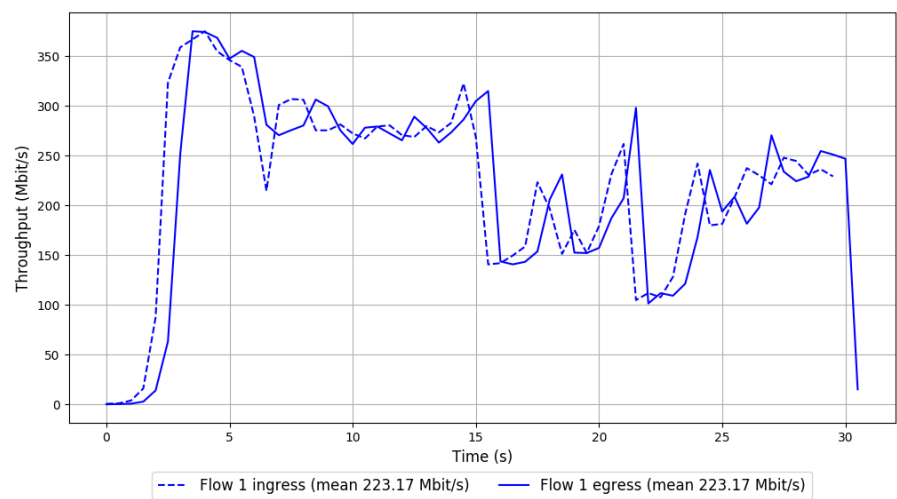
-- Flow 1:

Average throughput: 223.17 Mbit/s

95th percentile per-packet one-way delay: 131.919 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-03-08 19:57:14

End at: 2019-03-08 19:57:44

Local clock offset: 3.984 ms

Remote clock offset: 6.147 ms

Below is generated by plot.py at 2019-03-08 22:48:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 507.36 Mbit/s

95th percentile per-packet one-way delay: 206.622 ms

Loss rate: 0.06%

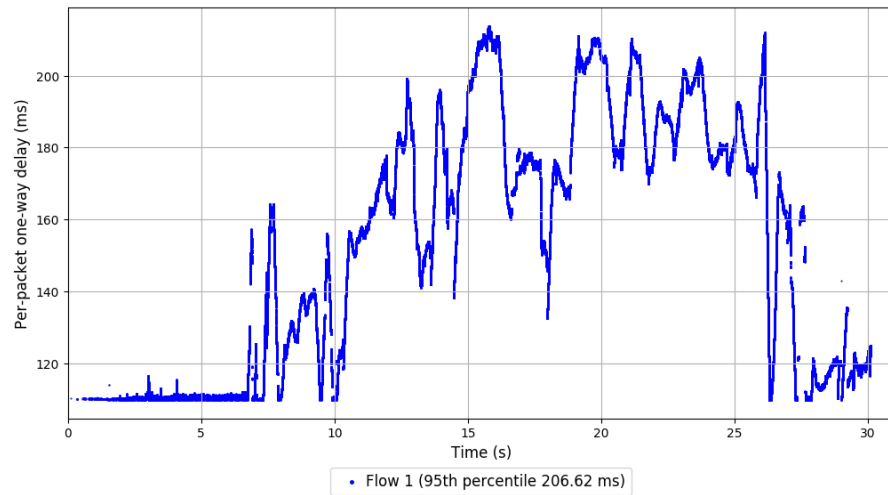
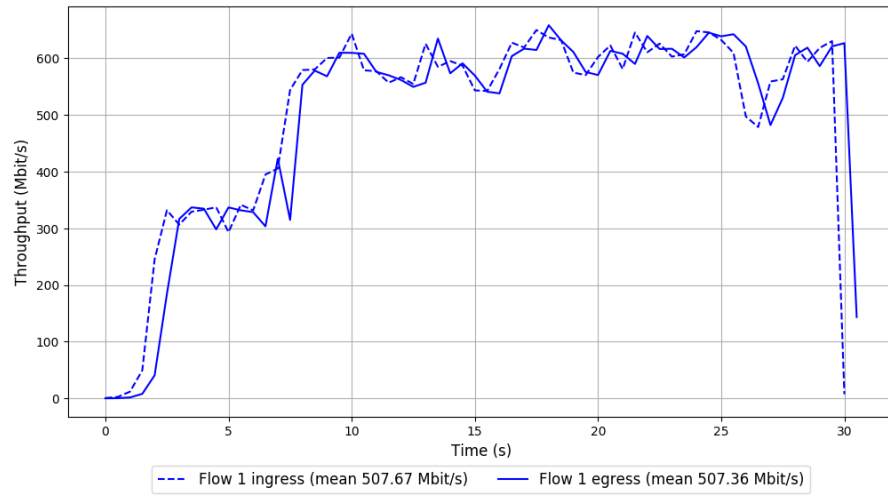
-- Flow 1:

Average throughput: 507.36 Mbit/s

95th percentile per-packet one-way delay: 206.622 ms

Loss rate: 0.06%

Run 1: Report of TCP Cubic — Data Link

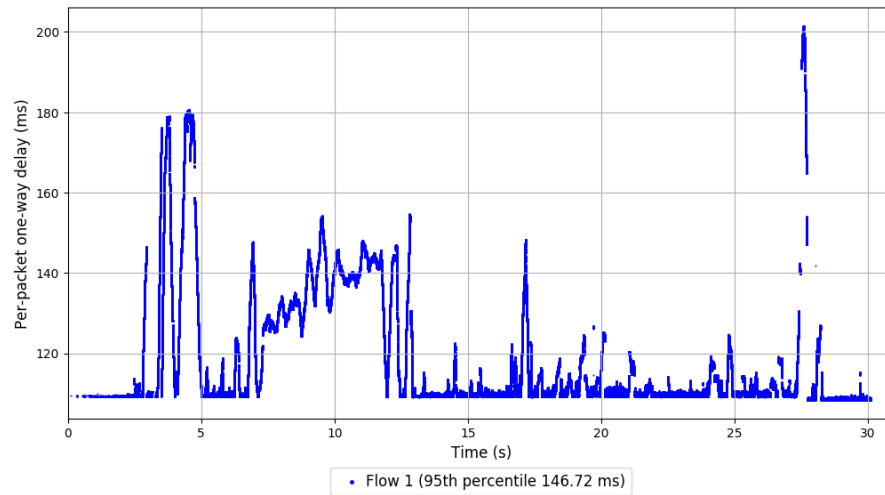
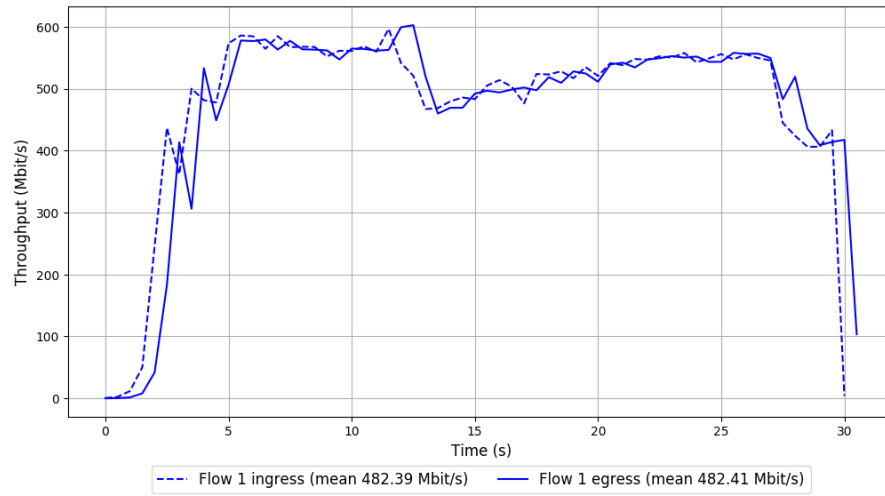


Run 2: Statistics of TCP Cubic

Start at: 2019-03-08 20:28:49
End at: 2019-03-08 20:29:19
Local clock offset: 8.908 ms
Remote clock offset: 11.889 ms

Below is generated by plot.py at 2019-03-08 22:48:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 482.41 Mbit/s
95th percentile per-packet one-way delay: 146.720 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 482.41 Mbit/s
95th percentile per-packet one-way delay: 146.720 ms
Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link

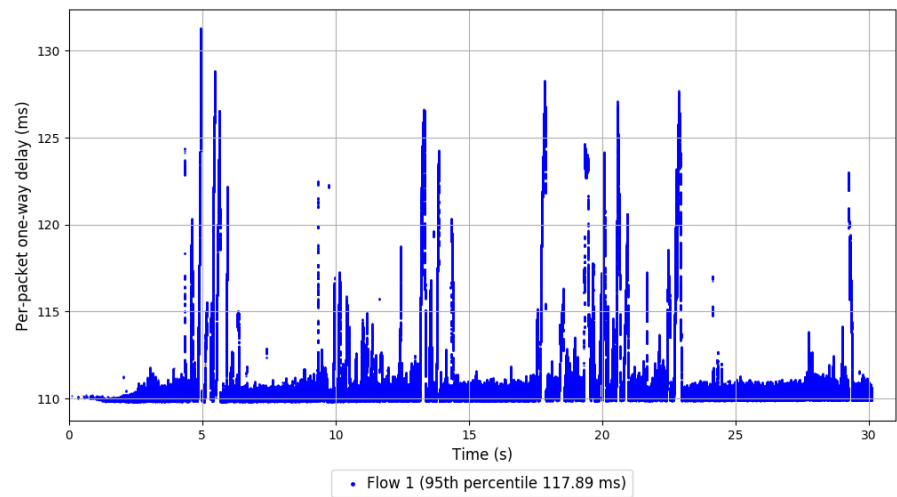
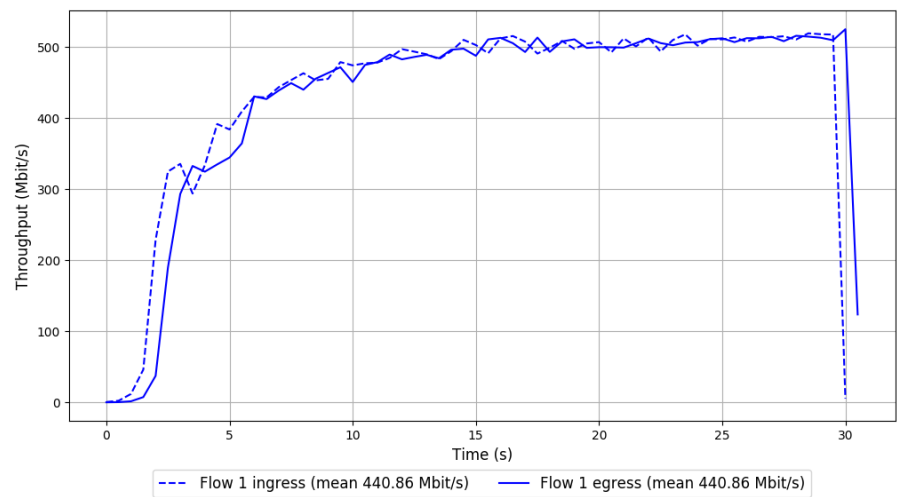


Run 3: Statistics of TCP Cubic

Start at: 2019-03-08 21:00:27
End at: 2019-03-08 21:00:57
Local clock offset: 9.662 ms
Remote clock offset: 12.564 ms

Below is generated by plot.py at 2019-03-08 22:48:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 440.86 Mbit/s
95th percentile per-packet one-way delay: 117.892 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 440.86 Mbit/s
95th percentile per-packet one-way delay: 117.892 ms
Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-03-08 21:31:53

End at: 2019-03-08 21:32:23

Local clock offset: 5.823 ms

Remote clock offset: 7.726 ms

Below is generated by plot.py at 2019-03-08 22:49:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 485.90 Mbit/s

95th percentile per-packet one-way delay: 208.622 ms

Loss rate: 0.02%

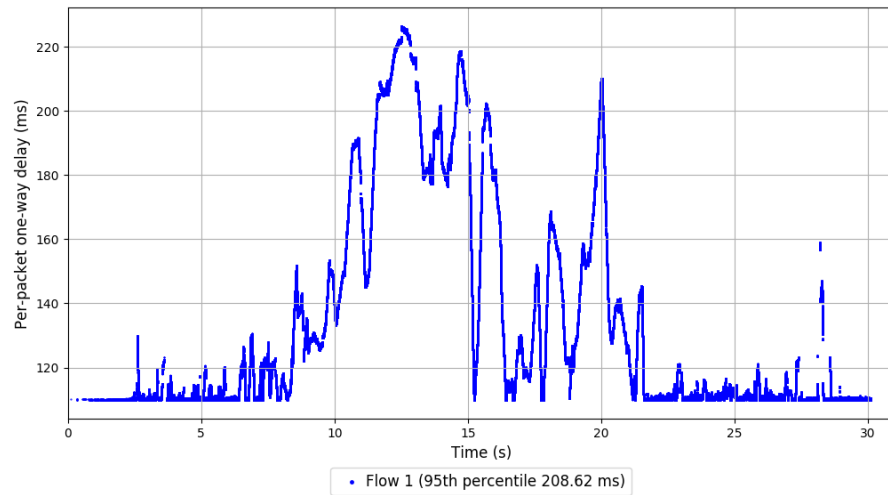
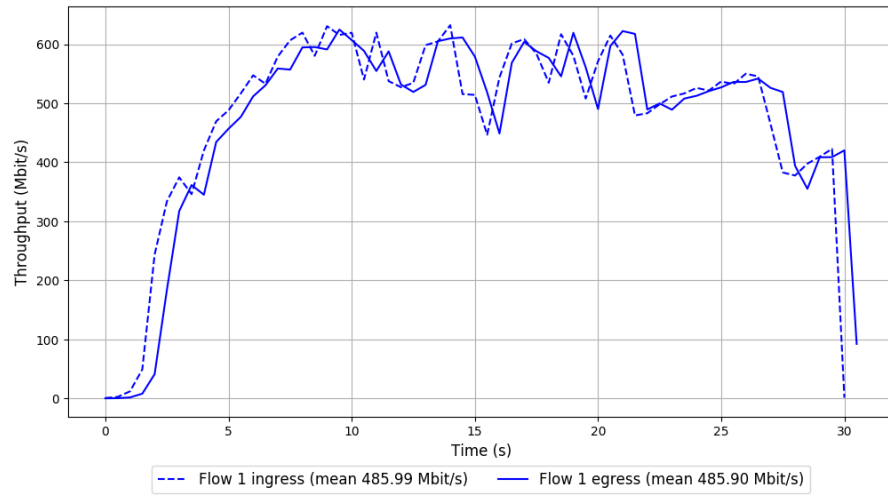
-- Flow 1:

Average throughput: 485.90 Mbit/s

95th percentile per-packet one-way delay: 208.622 ms

Loss rate: 0.02%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-03-08 22:03:34

End at: 2019-03-08 22:04:04

Local clock offset: 3.469 ms

Remote clock offset: 4.381 ms

Below is generated by plot.py at 2019-03-08 22:49:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 494.25 Mbit/s

95th percentile per-packet one-way delay: 196.448 ms

Loss rate: 0.06%

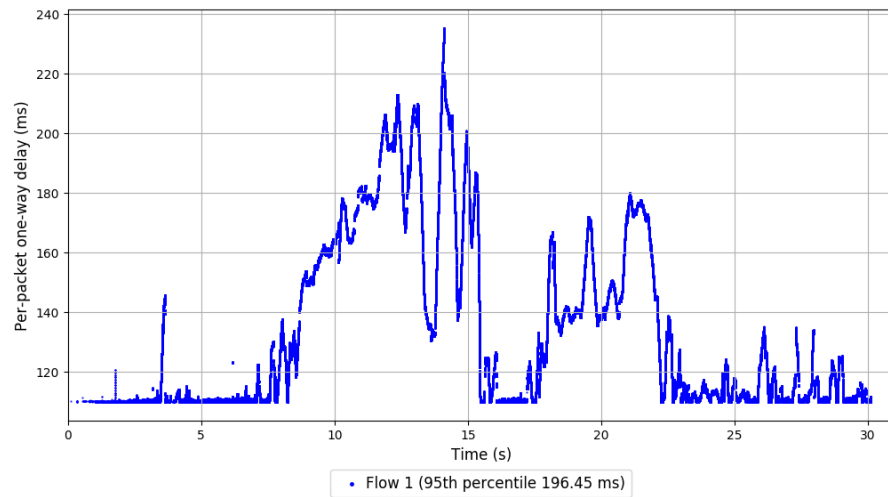
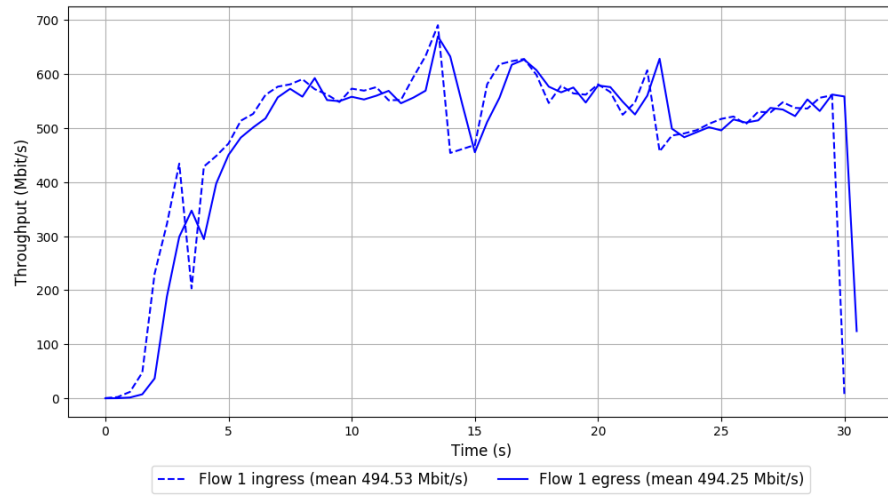
-- Flow 1:

Average throughput: 494.25 Mbit/s

95th percentile per-packet one-way delay: 196.448 ms

Loss rate: 0.06%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-03-08 19:55:25

End at: 2019-03-08 19:55:55

Local clock offset: 3.671 ms

Remote clock offset: 5.231 ms

Below is generated by plot.py at 2019-03-08 22:57:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 857.92 Mbit/s

95th percentile per-packet one-way delay: 162.546 ms

Loss rate: 0.72%

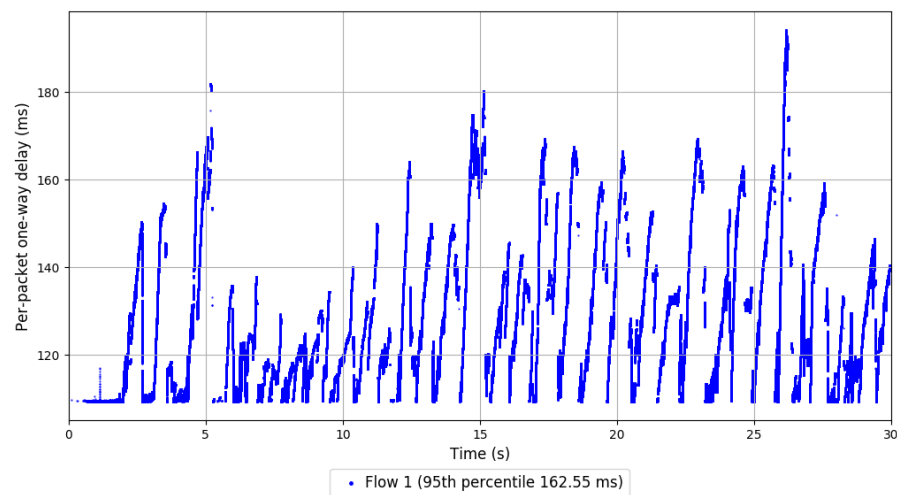
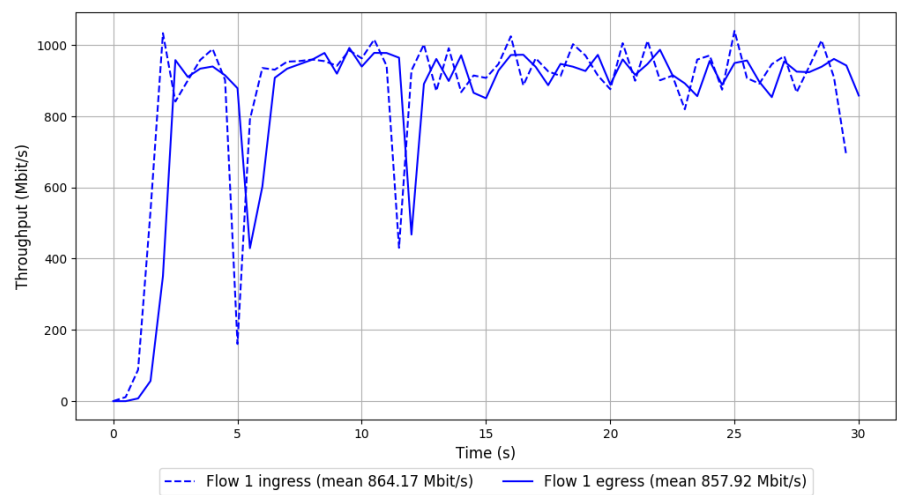
-- Flow 1:

Average throughput: 857.92 Mbit/s

95th percentile per-packet one-way delay: 162.546 ms

Loss rate: 0.72%

Run 1: Report of FillP — Data Link

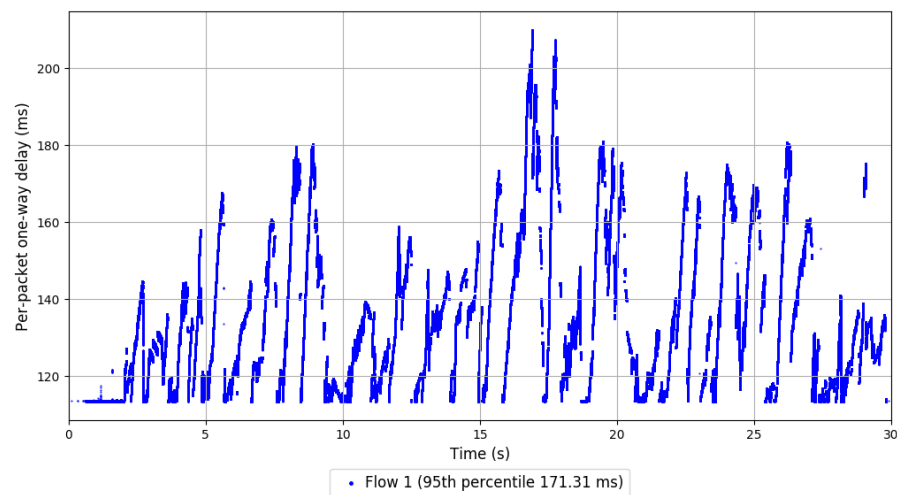
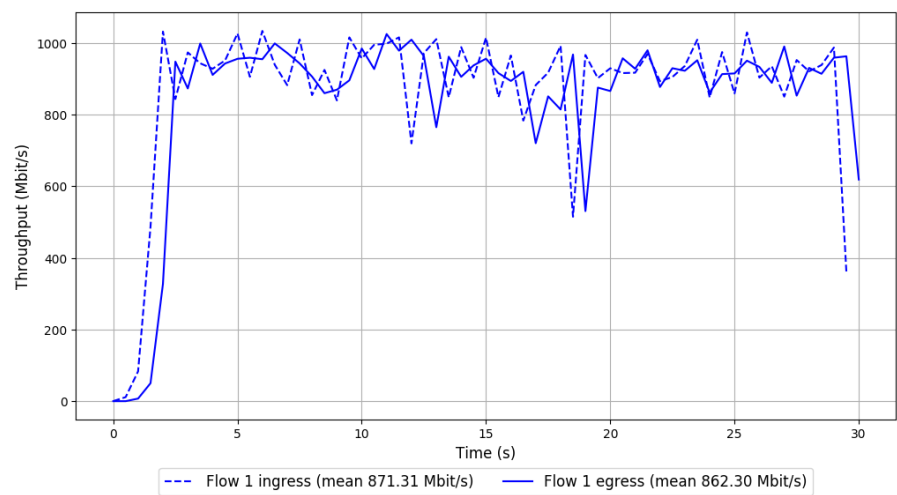


Run 2: Statistics of FillP

Start at: 2019-03-08 20:27:00
End at: 2019-03-08 20:27:30
Local clock offset: 8.758 ms
Remote clock offset: 11.815 ms

Below is generated by plot.py at 2019-03-08 23:05:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 862.30 Mbit/s
95th percentile per-packet one-way delay: 171.314 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 862.30 Mbit/s
95th percentile per-packet one-way delay: 171.314 ms
Loss rate: 1.04%

Run 2: Report of FillP — Data Link

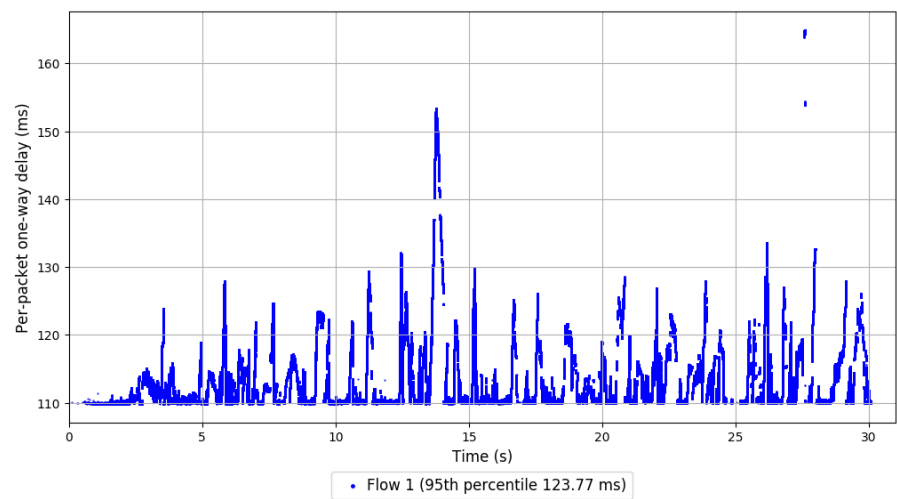
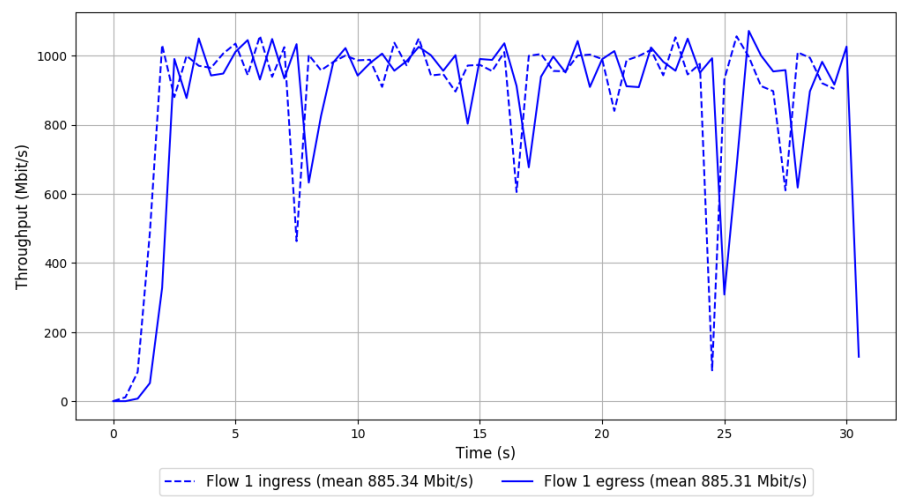


Run 3: Statistics of FillP

Start at: 2019-03-08 20:58:39
End at: 2019-03-08 20:59:09
Local clock offset: 10.777 ms
Remote clock offset: 14.103 ms

Below is generated by plot.py at 2019-03-08 23:05:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 885.31 Mbit/s
95th percentile per-packet one-way delay: 123.766 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 885.31 Mbit/s
95th percentile per-packet one-way delay: 123.766 ms
Loss rate: 0.00%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-03-08 21:30:06

End at: 2019-03-08 21:30:36

Local clock offset: 6.991 ms

Remote clock offset: 8.981 ms

Below is generated by plot.py at 2019-03-08 23:05:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 827.74 Mbit/s

95th percentile per-packet one-way delay: 173.972 ms

Loss rate: 2.12%

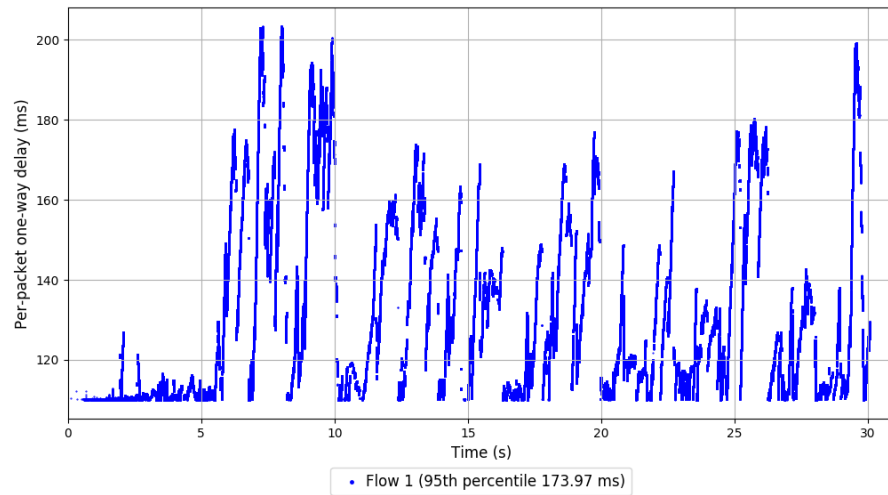
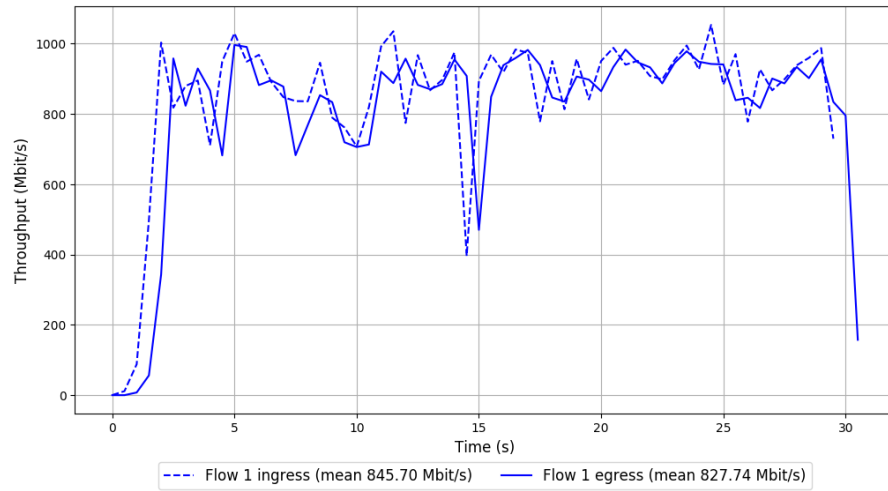
-- Flow 1:

Average throughput: 827.74 Mbit/s

95th percentile per-packet one-way delay: 173.972 ms

Loss rate: 2.12%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-03-08 22:01:46

End at: 2019-03-08 22:02:16

Local clock offset: 3.726 ms

Remote clock offset: 5.378 ms

Below is generated by plot.py at 2019-03-08 23:06:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 861.10 Mbit/s

95th percentile per-packet one-way delay: 144.838 ms

Loss rate: 0.25%

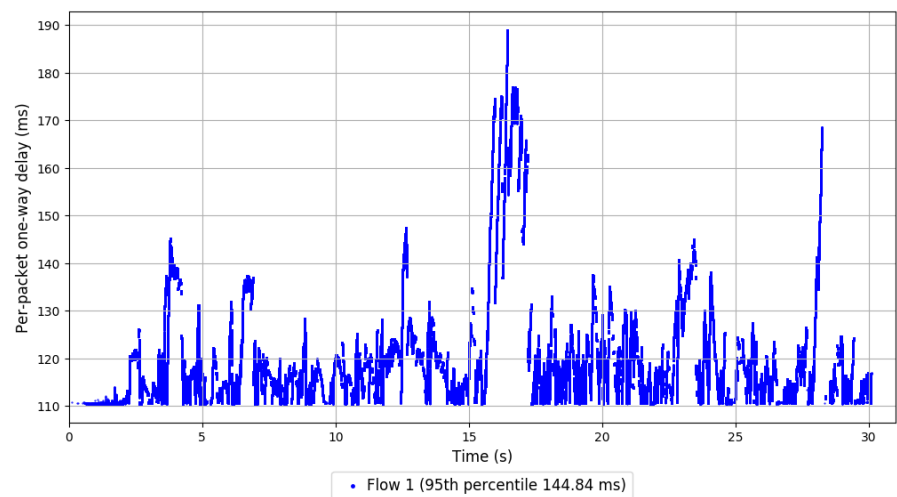
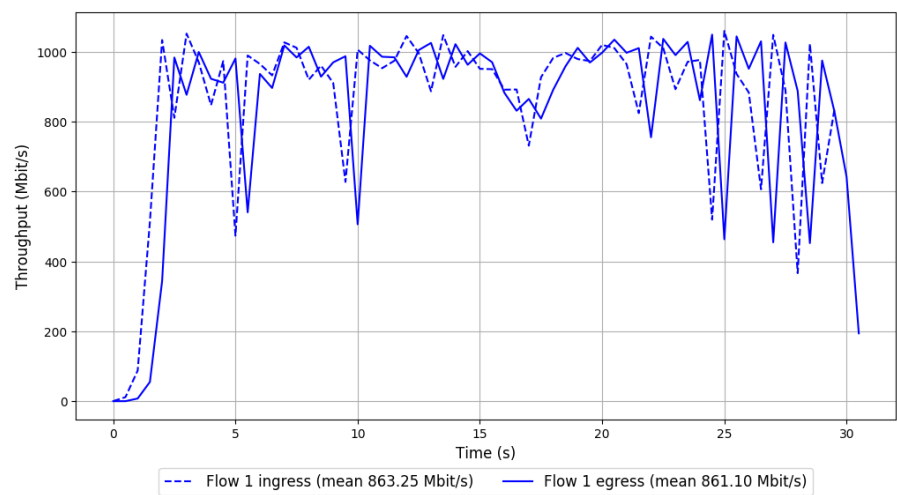
-- Flow 1:

Average throughput: 861.10 Mbit/s

95th percentile per-packet one-way delay: 144.838 ms

Loss rate: 0.25%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-03-08 19:53:39

End at: 2019-03-08 19:54:09

Local clock offset: 4.925 ms

Remote clock offset: 6.059 ms

Below is generated by plot.py at 2019-03-08 23:06:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 840.68 Mbit/s

95th percentile per-packet one-way delay: 165.862 ms

Loss rate: 0.98%

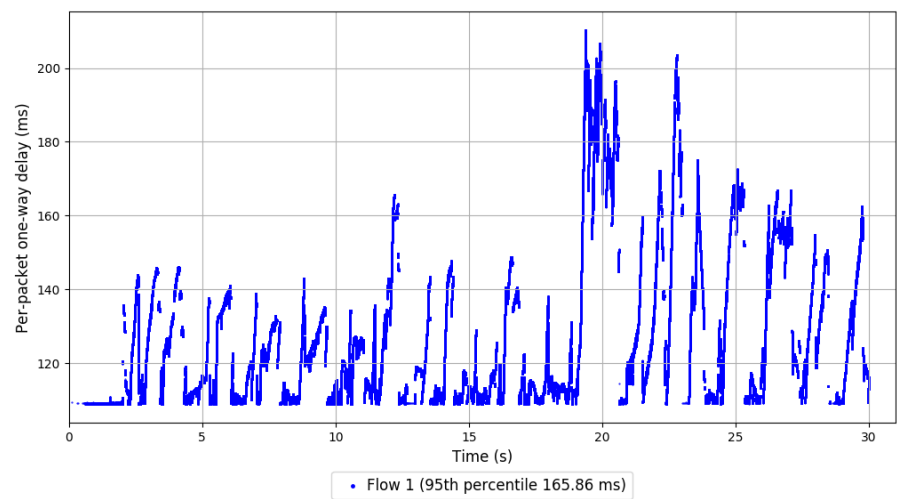
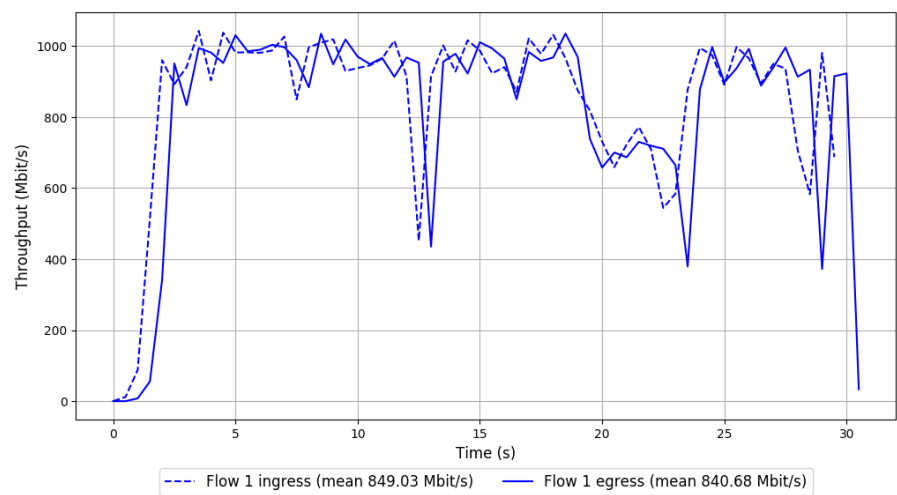
-- Flow 1:

Average throughput: 840.68 Mbit/s

95th percentile per-packet one-way delay: 165.862 ms

Loss rate: 0.98%

Run 1: Report of FillP-Sheep — Data Link

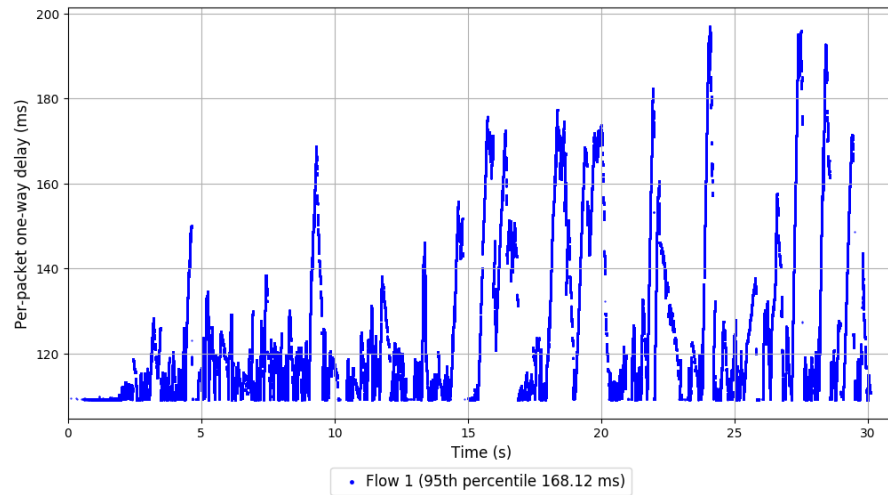
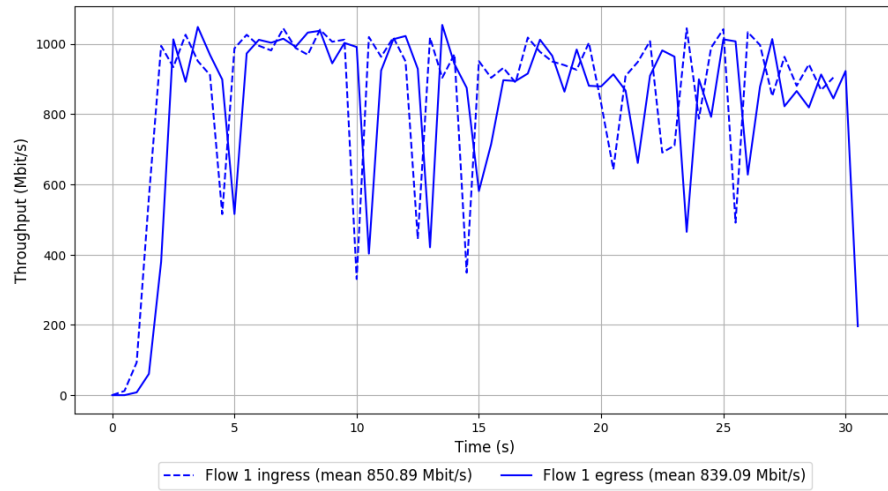


Run 2: Statistics of FillP-Sheep

Start at: 2019-03-08 20:25:14
End at: 2019-03-08 20:25:44
Local clock offset: 8.954 ms
Remote clock offset: 11.938 ms

Below is generated by plot.py at 2019-03-08 23:06:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 839.09 Mbit/s
95th percentile per-packet one-way delay: 168.119 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 839.09 Mbit/s
95th percentile per-packet one-way delay: 168.119 ms
Loss rate: 1.38%

Run 2: Report of FillP-Sheep — Data Link

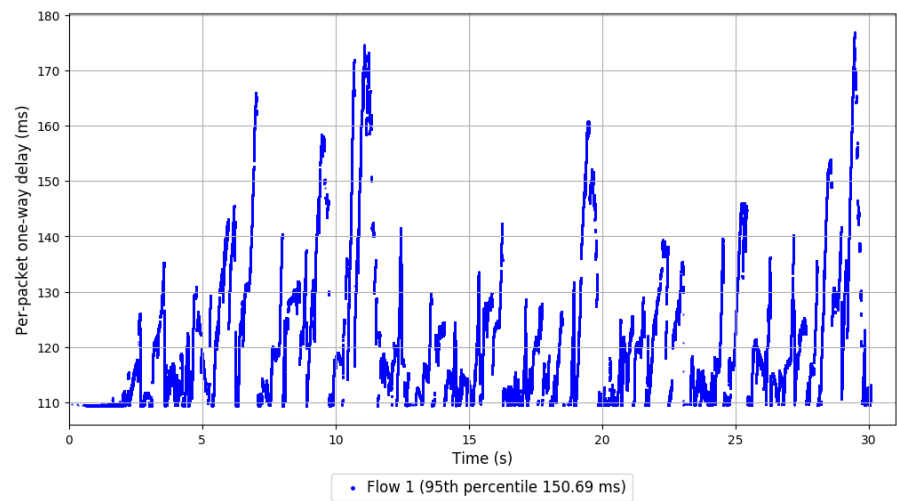
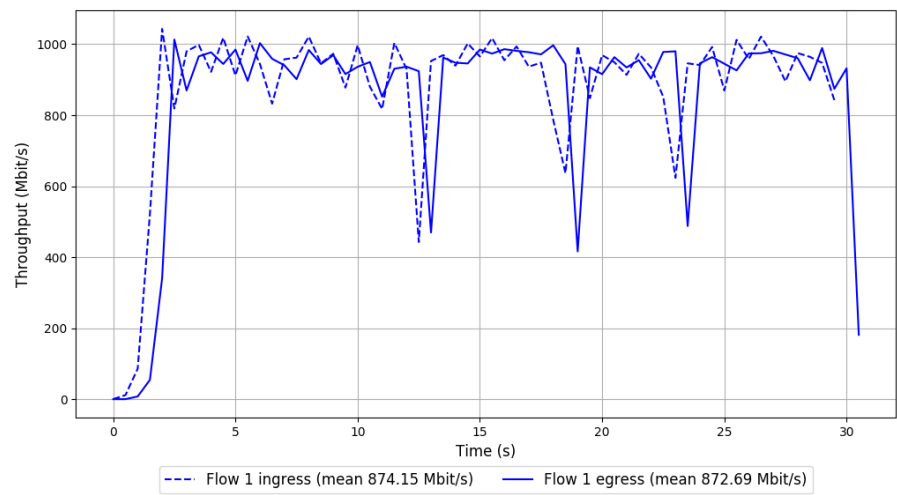


Run 3: Statistics of FillP-Sheep

Start at: 2019-03-08 20:56:51
End at: 2019-03-08 20:57:21
Local clock offset: 12.688 ms
Remote clock offset: 16.329 ms

Below is generated by plot.py at 2019-03-08 23:07:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 872.69 Mbit/s
95th percentile per-packet one-way delay: 150.691 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 872.69 Mbit/s
95th percentile per-packet one-way delay: 150.691 ms
Loss rate: 0.16%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-03-08 21:28:19

End at: 2019-03-08 21:28:49

Local clock offset: 8.14 ms

Remote clock offset: 10.64 ms

Below is generated by plot.py at 2019-03-08 23:15:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 802.77 Mbit/s

95th percentile per-packet one-way delay: 173.647 ms

Loss rate: 1.62%

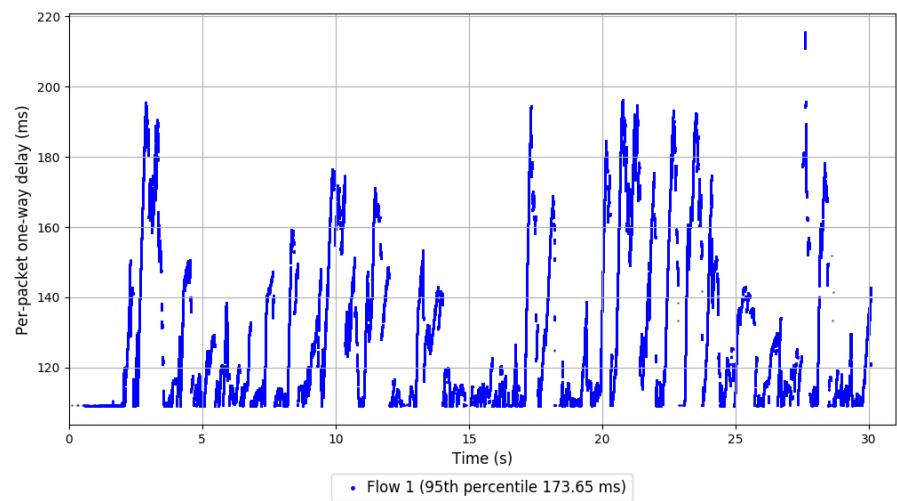
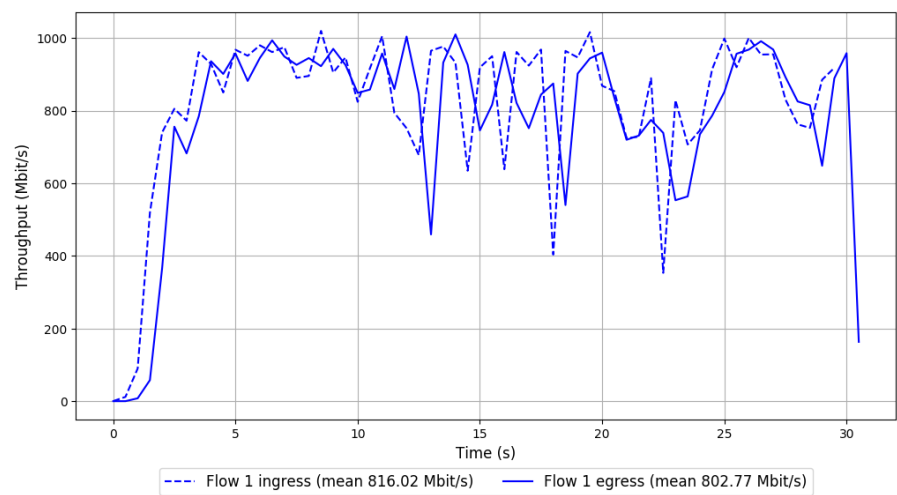
-- Flow 1:

Average throughput: 802.77 Mbit/s

95th percentile per-packet one-way delay: 173.647 ms

Loss rate: 1.62%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-03-08 21:59:58

End at: 2019-03-08 22:00:28

Local clock offset: 4.09 ms

Remote clock offset: 5.586 ms

Below is generated by plot.py at 2019-03-08 23:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 855.89 Mbit/s

95th percentile per-packet one-way delay: 133.633 ms

Loss rate: 0.12%

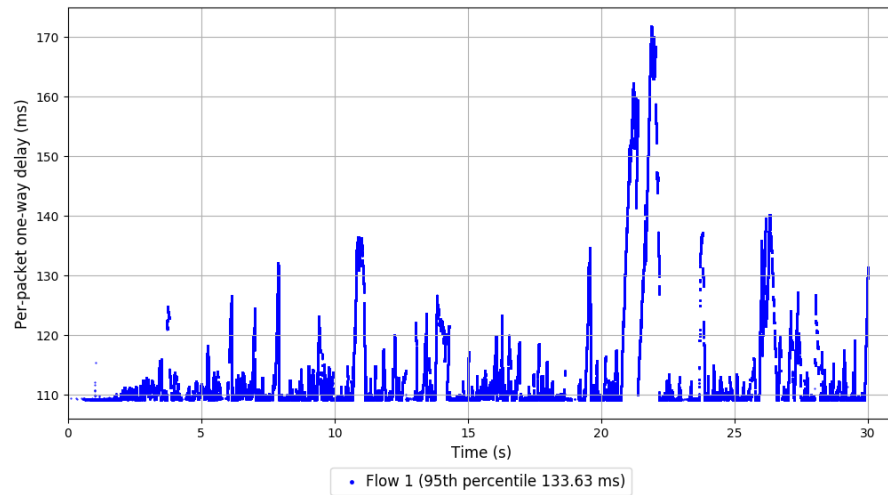
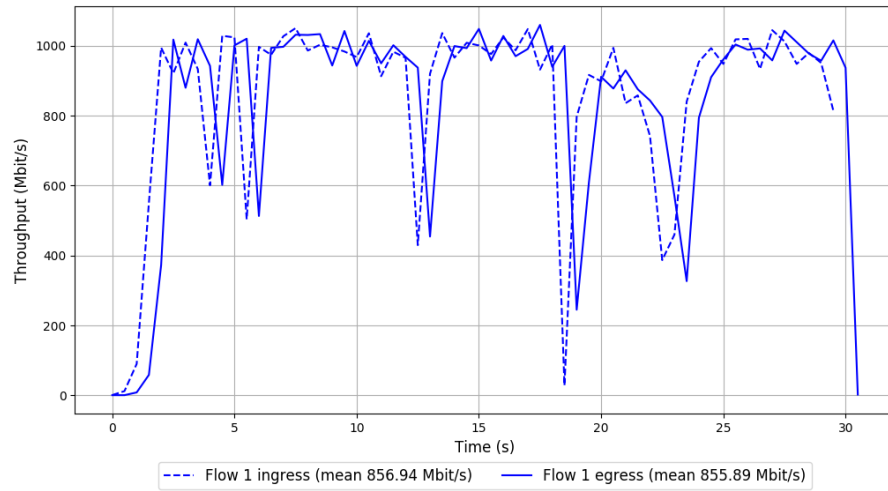
-- Flow 1:

Average throughput: 855.89 Mbit/s

95th percentile per-packet one-way delay: 133.633 ms

Loss rate: 0.12%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-03-08 20:09:05

End at: 2019-03-08 20:09:35

Local clock offset: 6.496 ms

Remote clock offset: 8.651 ms

Below is generated by plot.py at 2019-03-08 23:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.04 Mbit/s

95th percentile per-packet one-way delay: 109.881 ms

Loss rate: 0.00%

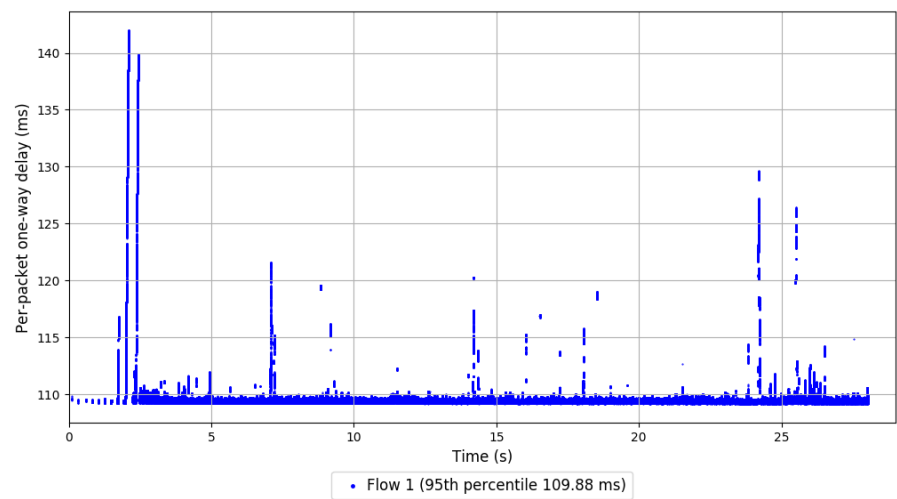
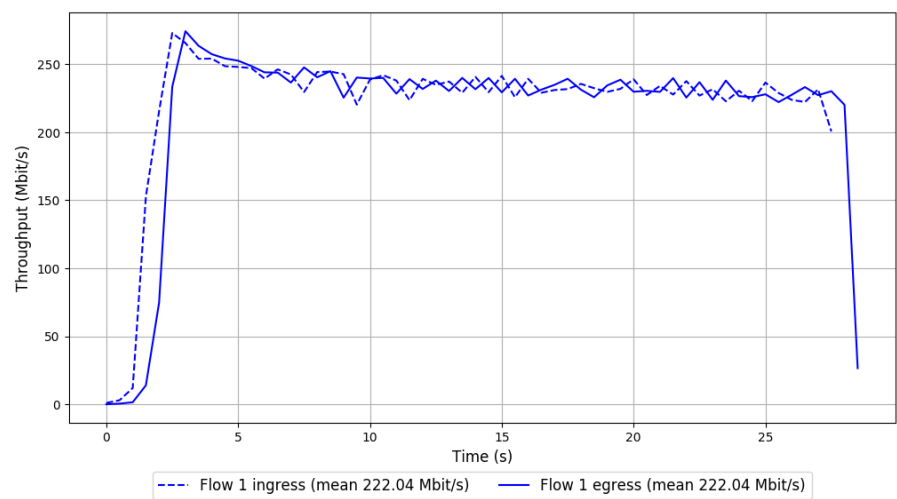
-- Flow 1:

Average throughput: 222.04 Mbit/s

95th percentile per-packet one-way delay: 109.881 ms

Loss rate: 0.00%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-03-08 20:40:35

End at: 2019-03-08 20:41:05

Local clock offset: 12.188 ms

Remote clock offset: 16.4 ms

Below is generated by plot.py at 2019-03-08 23:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.46 Mbit/s

95th percentile per-packet one-way delay: 110.513 ms

Loss rate: 0.00%

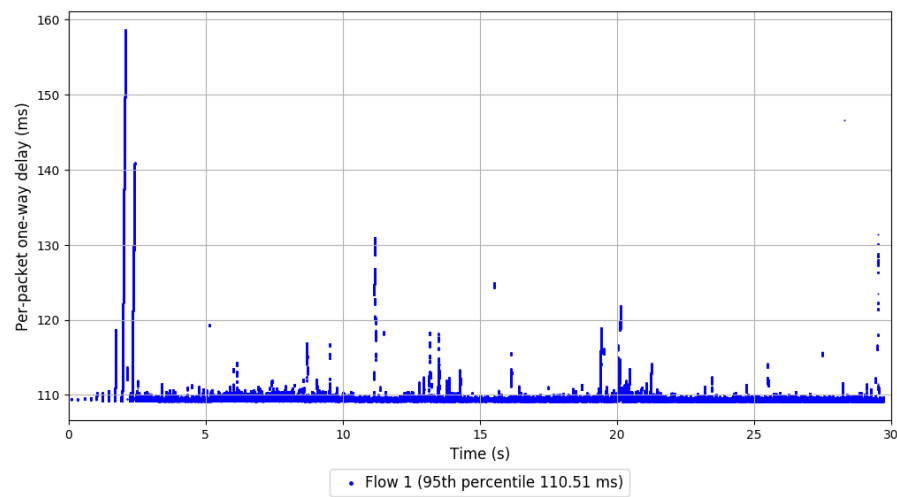
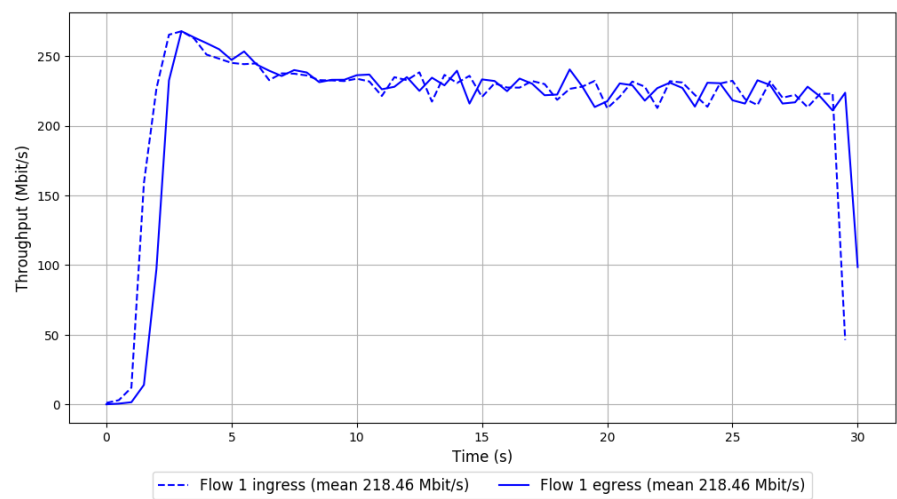
-- Flow 1:

Average throughput: 218.46 Mbit/s

95th percentile per-packet one-way delay: 110.513 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-03-08 21:12:21

End at: 2019-03-08 21:12:51

Local clock offset: 6.961 ms

Remote clock offset: 9.157 ms

Below is generated by plot.py at 2019-03-08 23:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.12 Mbit/s

95th percentile per-packet one-way delay: 111.139 ms

Loss rate: 0.00%

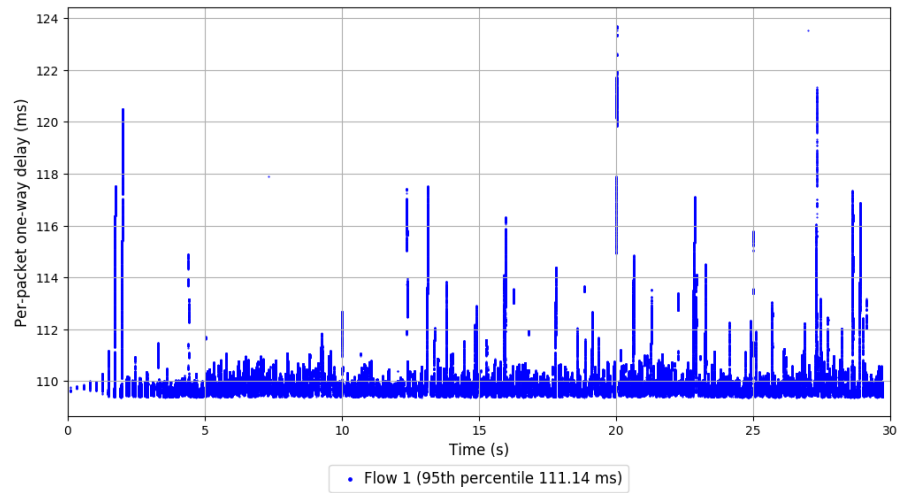
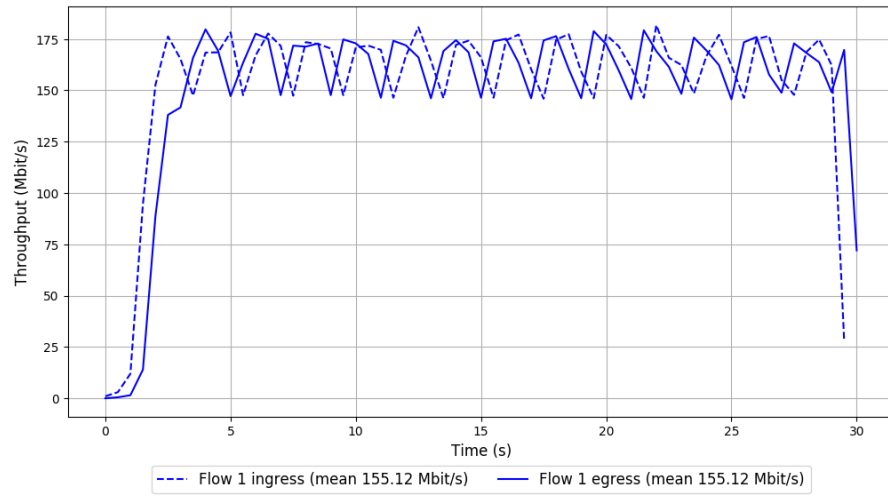
-- Flow 1:

Average throughput: 155.12 Mbit/s

95th percentile per-packet one-way delay: 111.139 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-03-08 21:43:56

End at: 2019-03-08 21:44:26

Local clock offset: 3.252 ms

Remote clock offset: 4.373 ms

Below is generated by plot.py at 2019-03-08 23:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 156.66 Mbit/s

95th percentile per-packet one-way delay: 109.770 ms

Loss rate: 0.00%

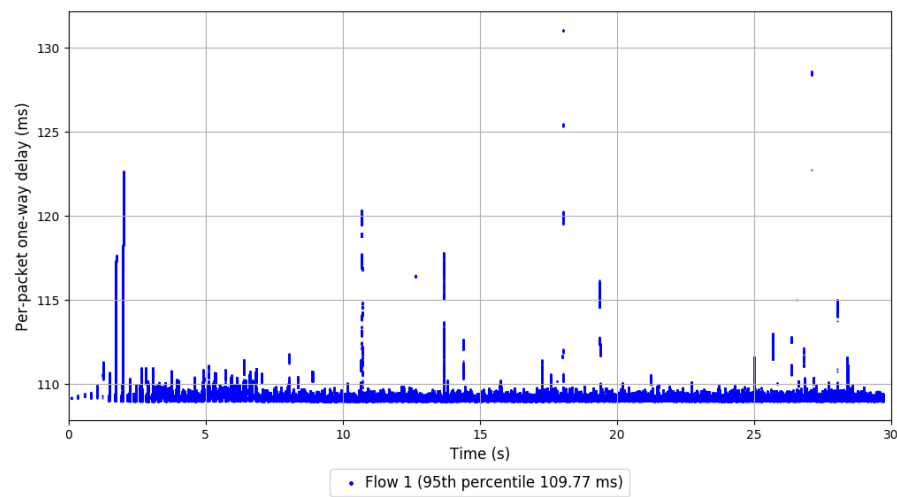
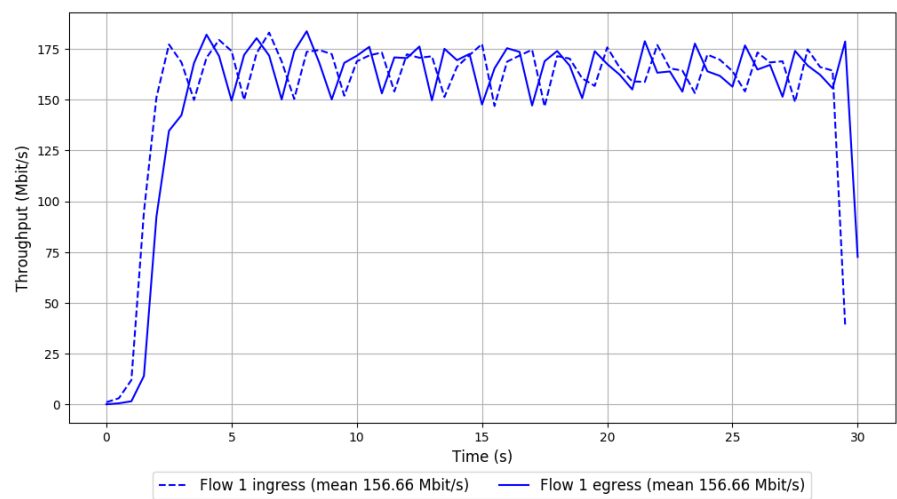
-- Flow 1:

Average throughput: 156.66 Mbit/s

95th percentile per-packet one-way delay: 109.770 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-03-08 22:15:36

End at: 2019-03-08 22:16:06

Local clock offset: 1.051 ms

Remote clock offset: 1.53 ms

Below is generated by plot.py at 2019-03-08 23:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.25 Mbit/s

95th percentile per-packet one-way delay: 112.800 ms

Loss rate: 0.00%

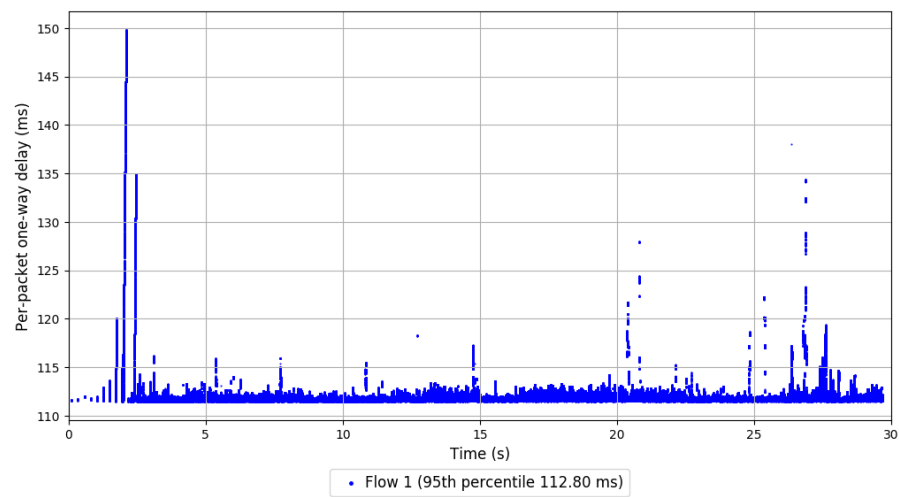
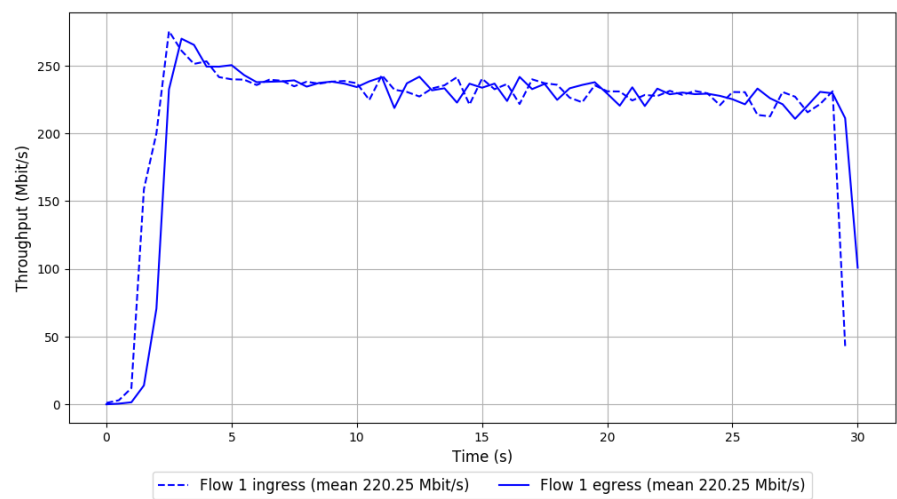
-- Flow 1:

Average throughput: 220.25 Mbit/s

95th percentile per-packet one-way delay: 112.800 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-03-08 20:03:30

End at: 2019-03-08 20:04:00

Local clock offset: 6.821 ms

Remote clock offset: 8.642 ms

Below is generated by plot.py at 2019-03-08 23:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 571.13 Mbit/s

95th percentile per-packet one-way delay: 190.641 ms

Loss rate: 0.39%

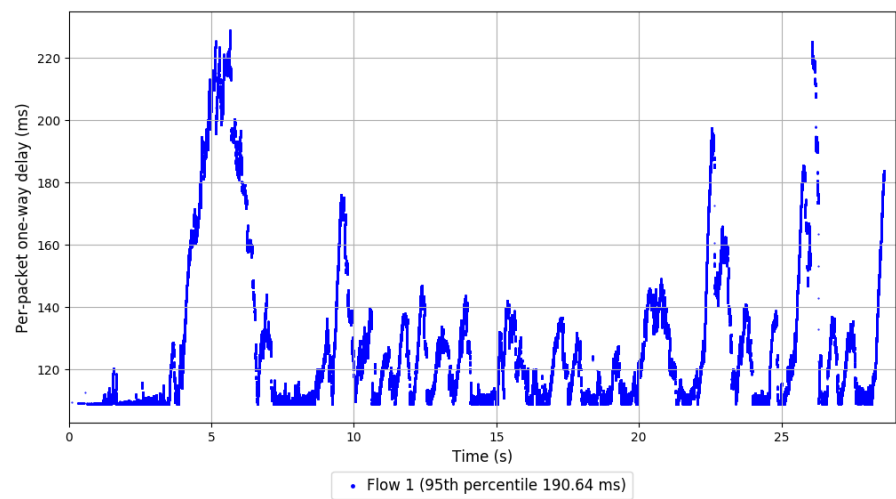
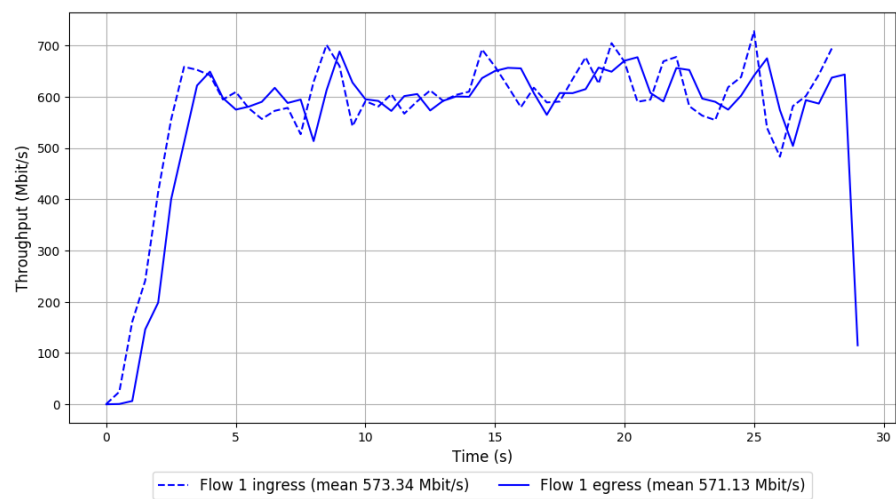
-- Flow 1:

Average throughput: 571.13 Mbit/s

95th percentile per-packet one-way delay: 190.641 ms

Loss rate: 0.39%

Run 1: Report of Indigo-MusesC3 — Data Link

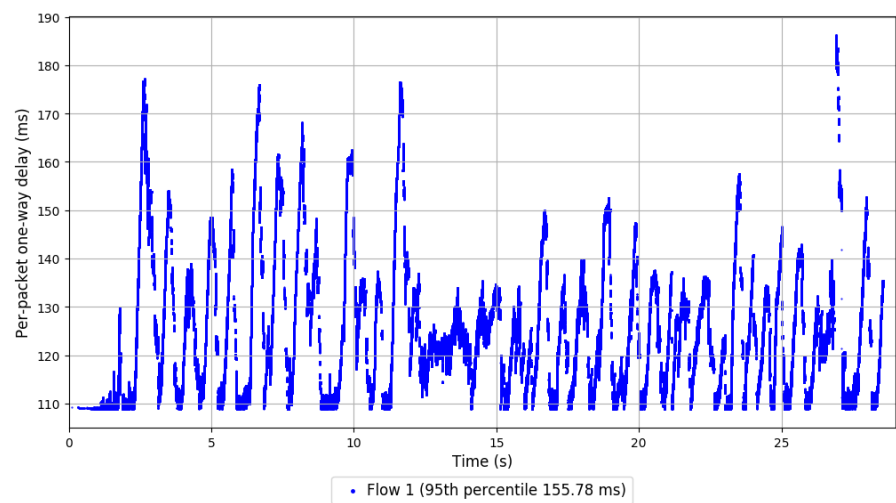
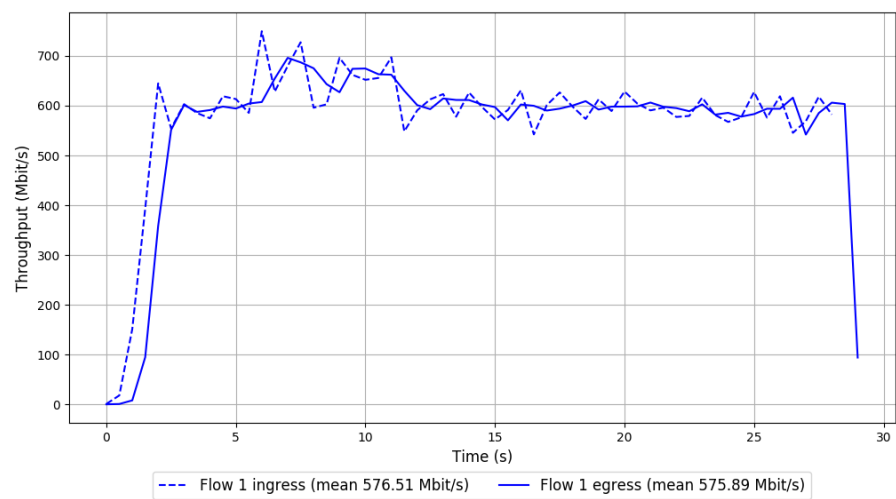


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-03-08 20:35:08
End at: 2019-03-08 20:35:38
Local clock offset: 10.206 ms
Remote clock offset: 13.315 ms

Below is generated by plot.py at 2019-03-08 23:22:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 575.89 Mbit/s
95th percentile per-packet one-way delay: 155.776 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 575.89 Mbit/s
95th percentile per-packet one-way delay: 155.776 ms
Loss rate: 0.11%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-03-08 21:06:45

End at: 2019-03-08 21:07:15

Local clock offset: 7.029 ms

Remote clock offset: 9.151 ms

Below is generated by plot.py at 2019-03-08 23:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 584.22 Mbit/s

95th percentile per-packet one-way delay: 148.330 ms

Loss rate: 0.16%

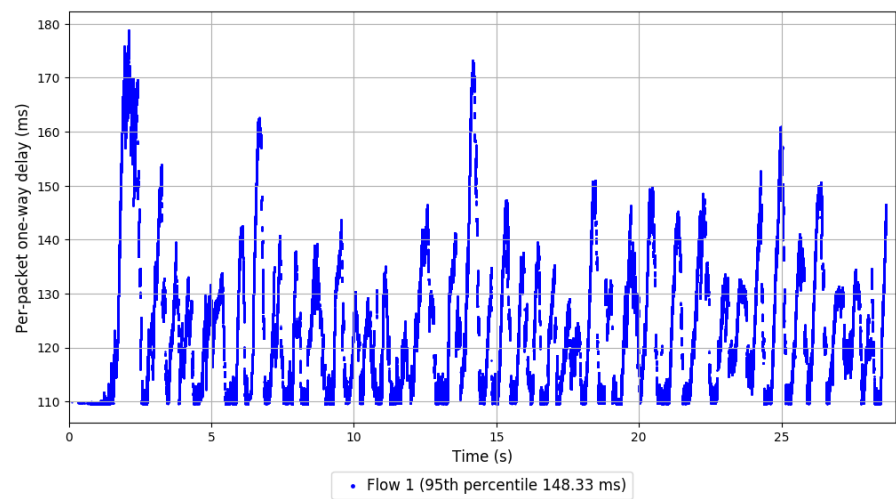
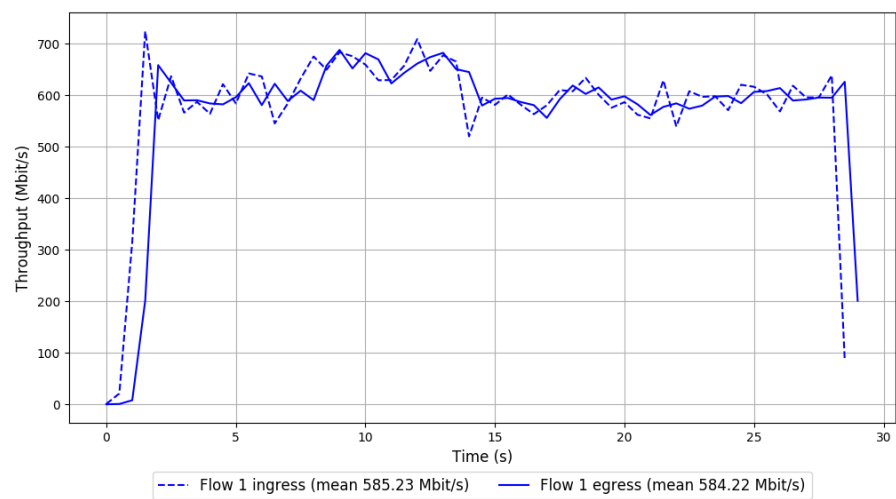
-- Flow 1:

Average throughput: 584.22 Mbit/s

95th percentile per-packet one-way delay: 148.330 ms

Loss rate: 0.16%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-03-08 21:38:15

End at: 2019-03-08 21:38:45

Local clock offset: 3.8 ms

Remote clock offset: 5.03 ms

Below is generated by plot.py at 2019-03-08 23:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 612.09 Mbit/s

95th percentile per-packet one-way delay: 147.362 ms

Loss rate: 0.17%

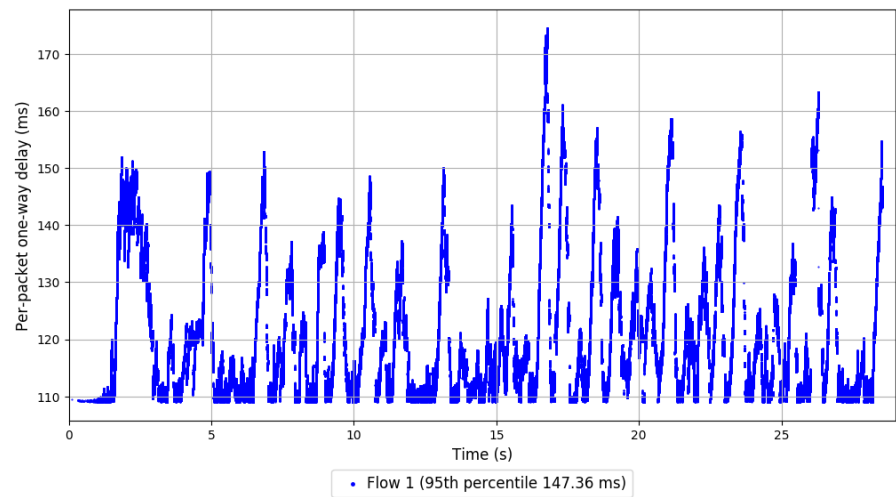
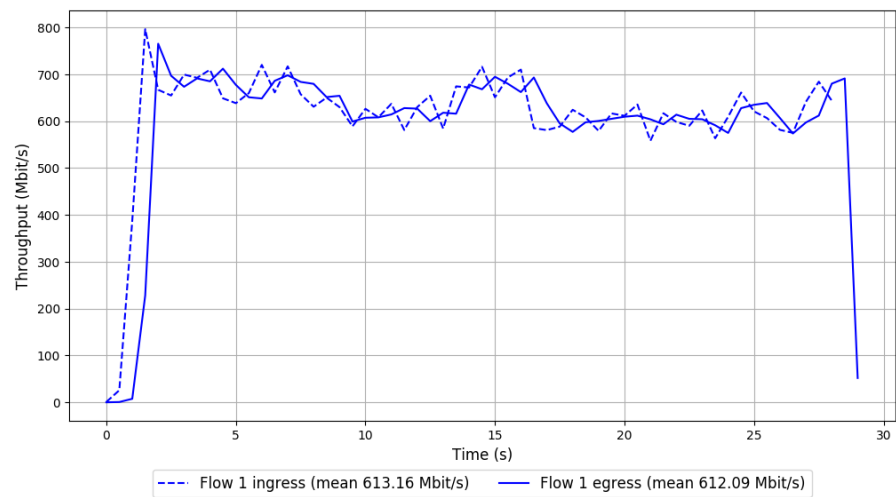
-- Flow 1:

Average throughput: 612.09 Mbit/s

95th percentile per-packet one-way delay: 147.362 ms

Loss rate: 0.17%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-03-08 22:09:57

End at: 2019-03-08 22:10:27

Local clock offset: 2.142 ms

Remote clock offset: 2.298 ms

Below is generated by plot.py at 2019-03-08 23:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 589.31 Mbit/s

95th percentile per-packet one-way delay: 176.765 ms

Loss rate: 0.05%

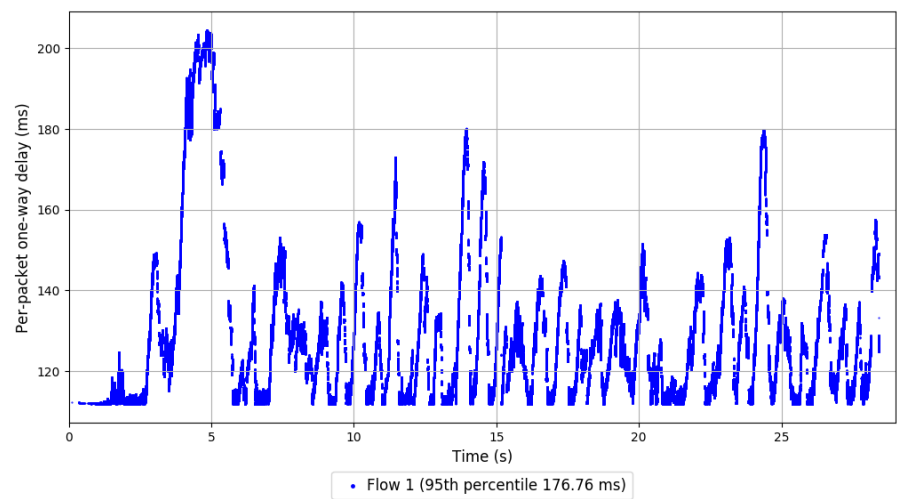
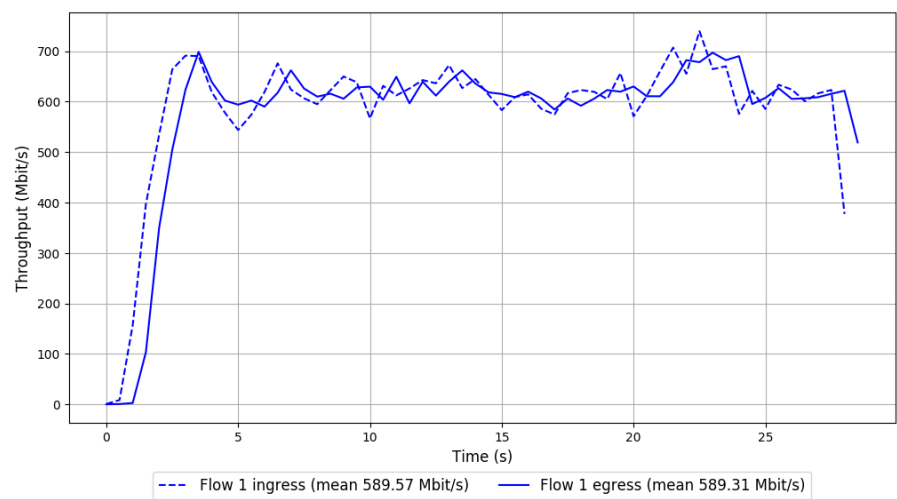
-- Flow 1:

Average throughput: 589.31 Mbit/s

95th percentile per-packet one-way delay: 176.765 ms

Loss rate: 0.05%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-03-08 20:00:15

End at: 2019-03-08 20:00:45

Local clock offset: 6.447 ms

Remote clock offset: 8.917 ms

Below is generated by plot.py at 2019-03-08 23:23:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 607.45 Mbit/s

95th percentile per-packet one-way delay: 158.700 ms

Loss rate: 0.11%

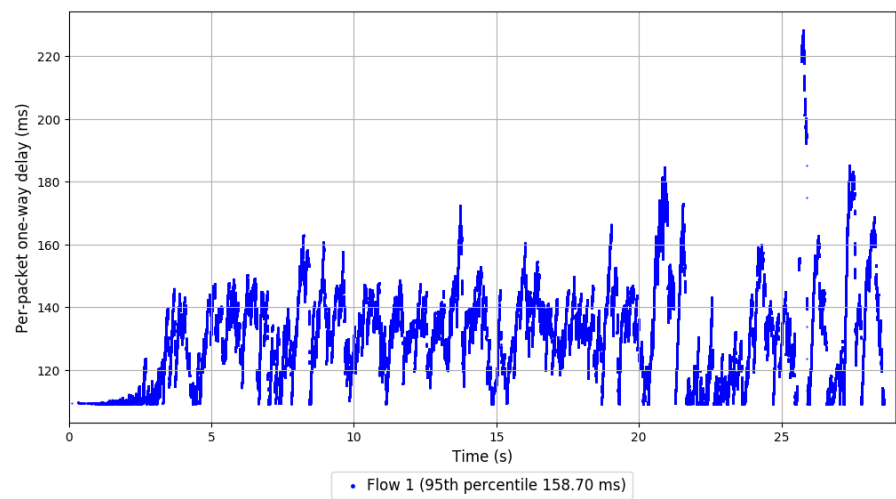
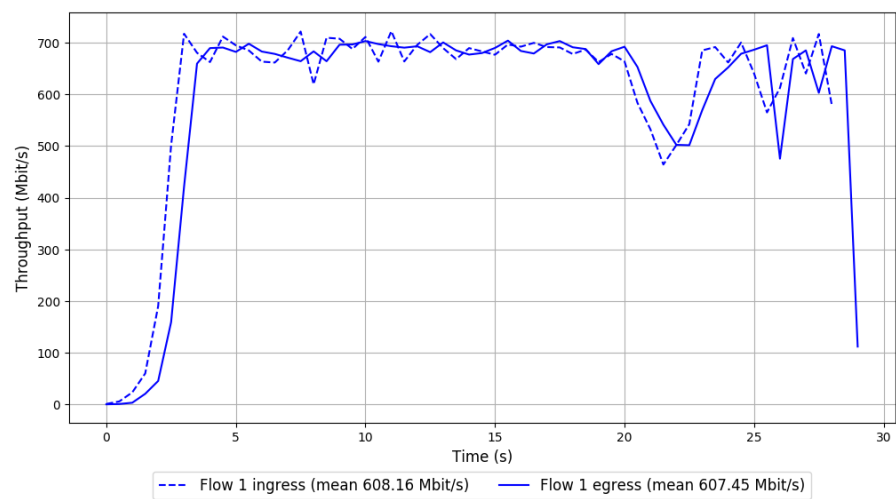
-- Flow 1:

Average throughput: 607.45 Mbit/s

95th percentile per-packet one-way delay: 158.700 ms

Loss rate: 0.11%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-03-08 20:31:54

End at: 2019-03-08 20:32:24

Local clock offset: 9.19 ms

Remote clock offset: 12.58 ms

Below is generated by plot.py at 2019-03-08 23:25:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 531.88 Mbit/s

95th percentile per-packet one-way delay: 192.314 ms

Loss rate: 0.11%

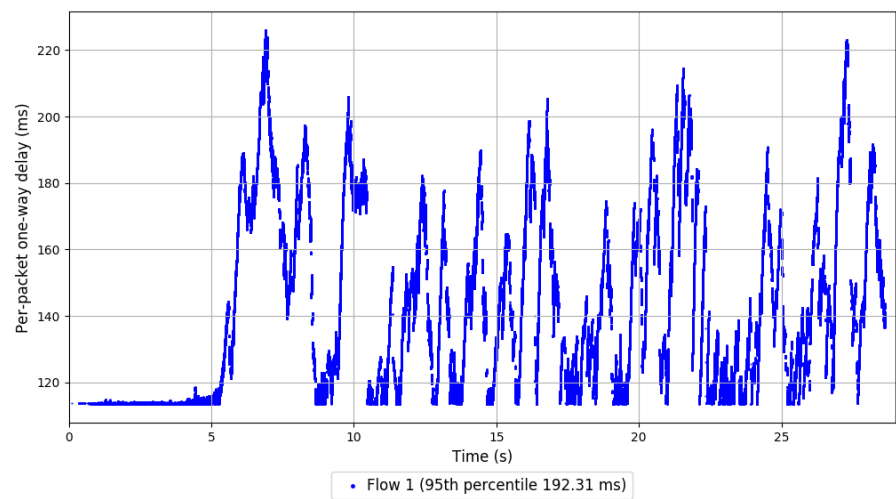
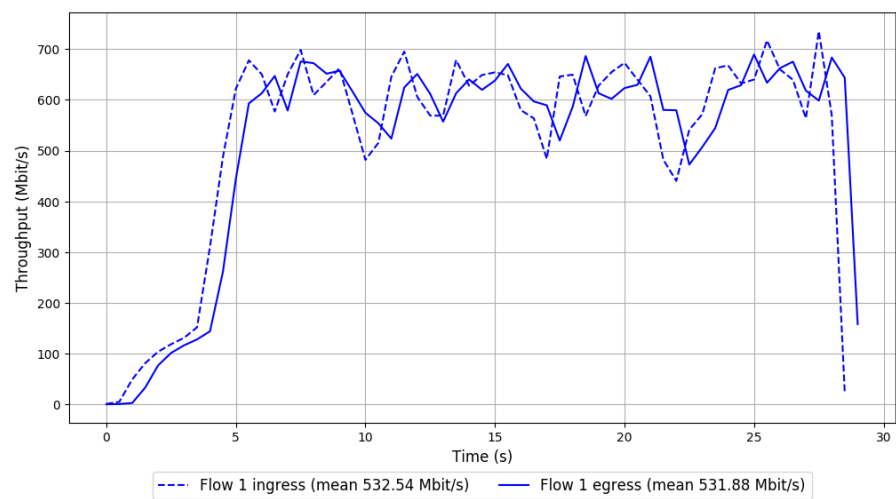
-- Flow 1:

Average throughput: 531.88 Mbit/s

95th percentile per-packet one-way delay: 192.314 ms

Loss rate: 0.11%

Run 2: Report of Indigo-MusesC5 — Data Link

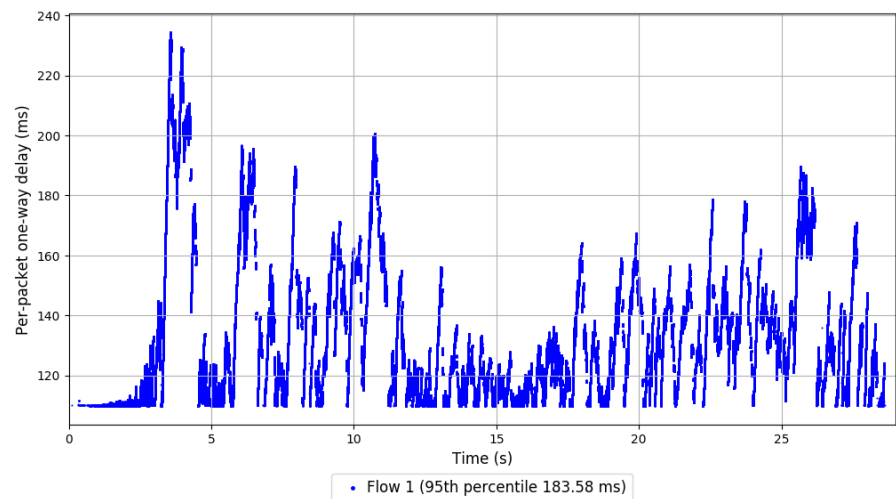
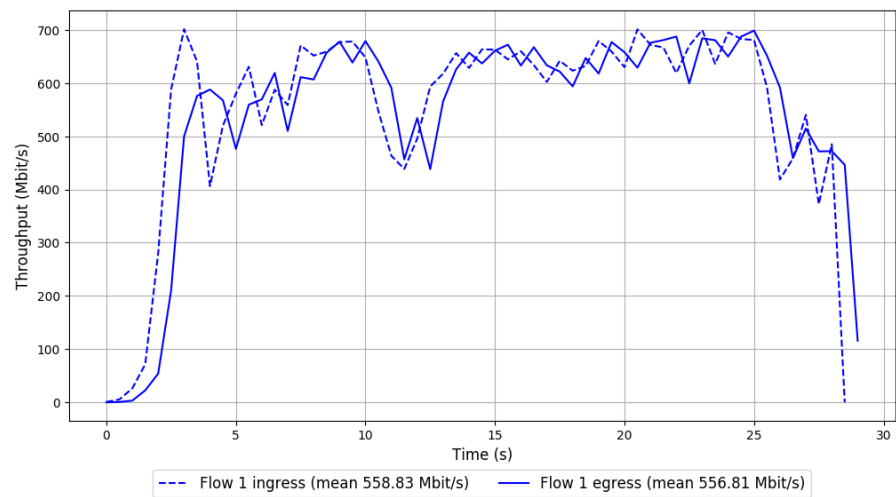


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-03-08 21:03:30
End at: 2019-03-08 21:04:00
Local clock offset: 7.964 ms
Remote clock offset: 10.604 ms

Below is generated by plot.py at 2019-03-08 23:26:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 556.81 Mbit/s
95th percentile per-packet one-way delay: 183.583 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 556.81 Mbit/s
95th percentile per-packet one-way delay: 183.583 ms
Loss rate: 0.36%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-03-08 21:35:01

End at: 2019-03-08 21:35:32

Local clock offset: 4.551 ms

Remote clock offset: 5.658 ms

Below is generated by plot.py at 2019-03-08 23:30:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 565.29 Mbit/s

95th percentile per-packet one-way delay: 180.449 ms

Loss rate: 0.28%

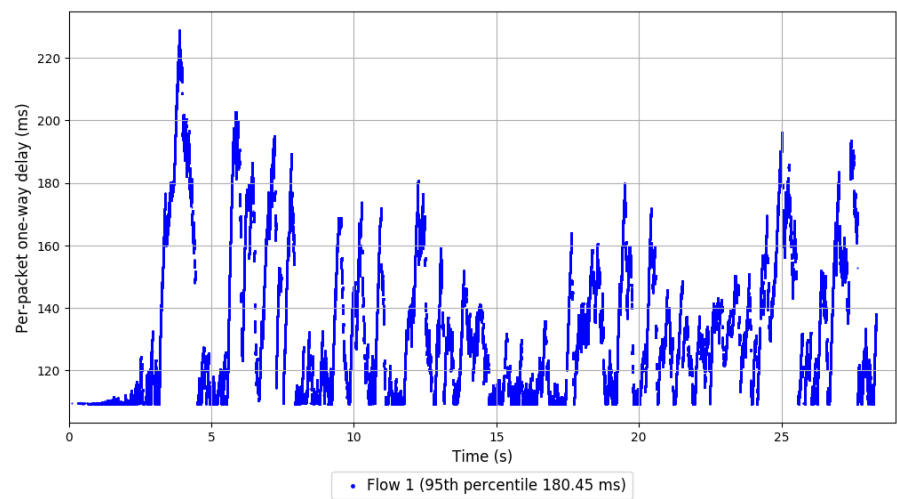
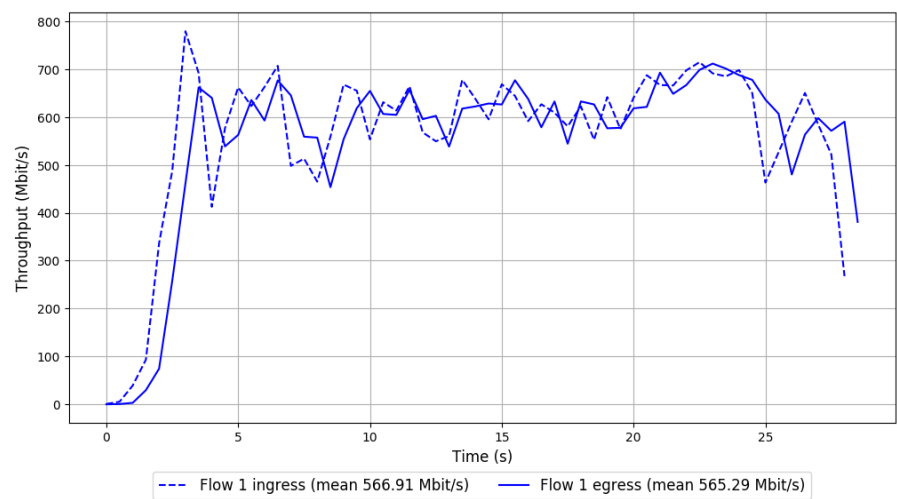
-- Flow 1:

Average throughput: 565.29 Mbit/s

95th percentile per-packet one-way delay: 180.449 ms

Loss rate: 0.28%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-03-08 22:06:43

End at: 2019-03-08 22:07:13

Local clock offset: 2.571 ms

Remote clock offset: 3.174 ms

Below is generated by plot.py at 2019-03-08 23:30:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 542.14 Mbit/s

95th percentile per-packet one-way delay: 183.006 ms

Loss rate: 0.25%

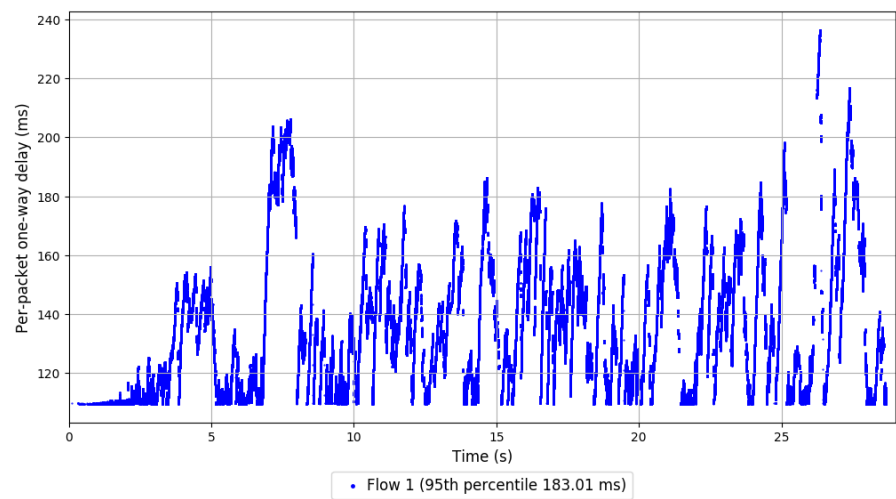
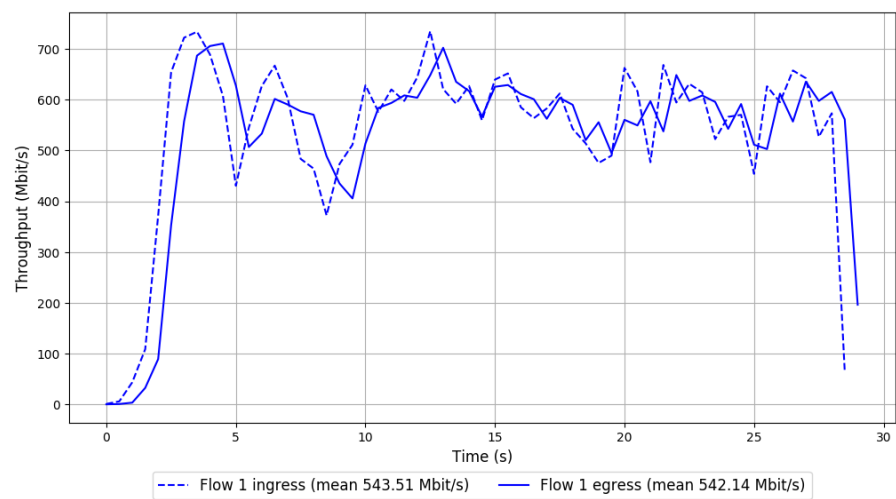
-- Flow 1:

Average throughput: 542.14 Mbit/s

95th percentile per-packet one-way delay: 183.006 ms

Loss rate: 0.25%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-03-08 19:52:05

End at: 2019-03-08 19:52:35

Local clock offset: 3.495 ms

Remote clock offset: 5.662 ms

Below is generated by plot.py at 2019-03-08 23:30:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 477.98 Mbit/s

95th percentile per-packet one-way delay: 190.324 ms

Loss rate: 0.09%

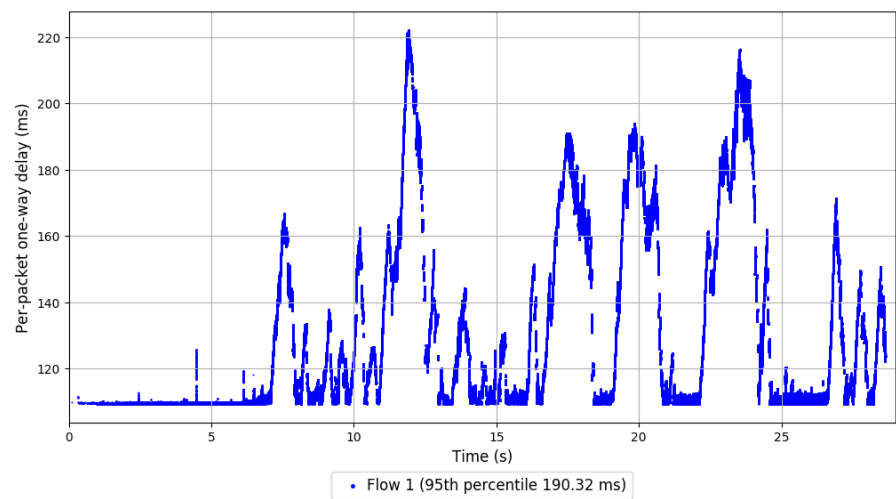
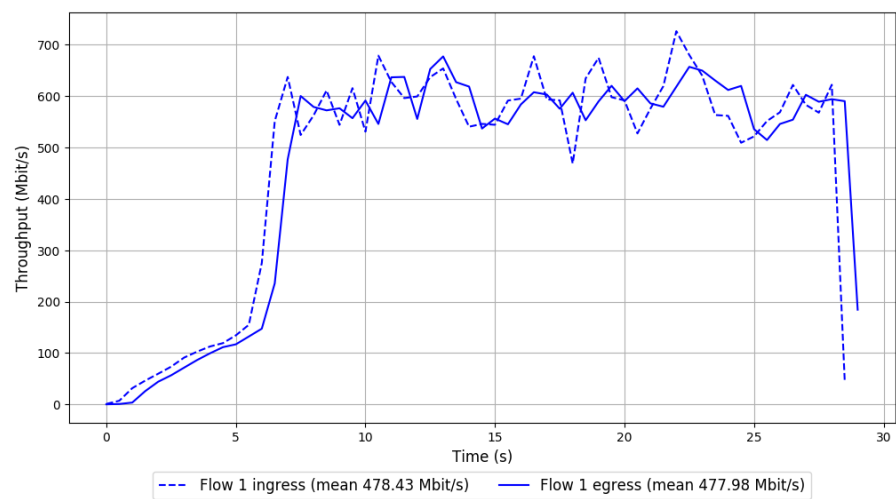
-- Flow 1:

Average throughput: 477.98 Mbit/s

95th percentile per-packet one-way delay: 190.324 ms

Loss rate: 0.09%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-03-08 20:23:36

End at: 2019-03-08 20:24:06

Local clock offset: 9.241 ms

Remote clock offset: 12.374 ms

Below is generated by plot.py at 2019-03-08 23:31:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 548.44 Mbit/s

95th percentile per-packet one-way delay: 191.288 ms

Loss rate: 0.15%

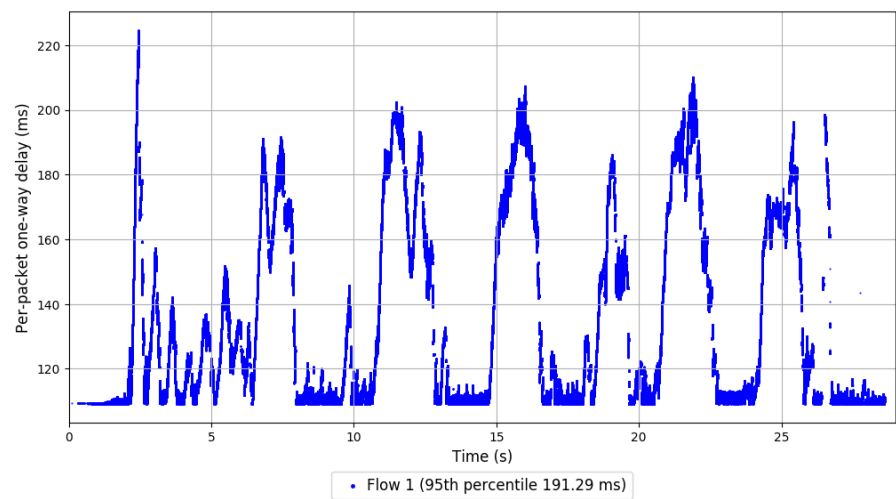
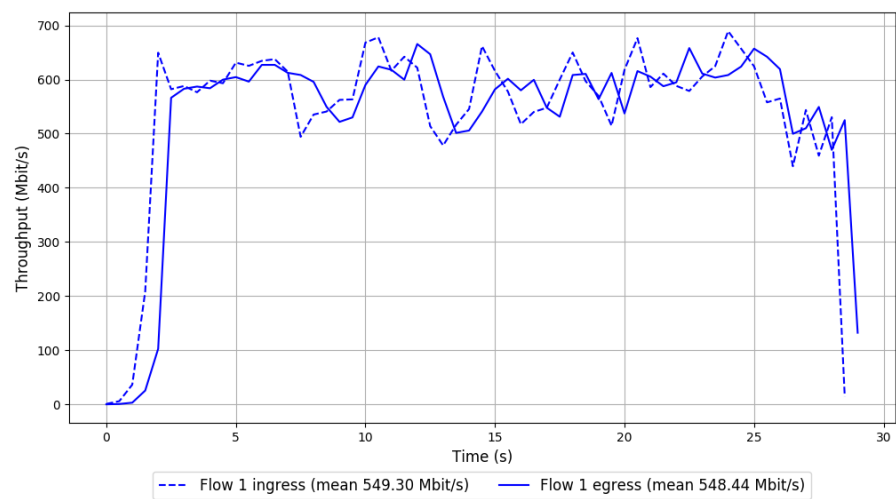
-- Flow 1:

Average throughput: 548.44 Mbit/s

95th percentile per-packet one-way delay: 191.288 ms

Loss rate: 0.15%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-03-08 20:55:12

End at: 2019-03-08 20:55:42

Local clock offset: 14.761 ms

Remote clock offset: 18.996 ms

Below is generated by plot.py at 2019-03-08 23:32:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 582.00 Mbit/s

95th percentile per-packet one-way delay: 190.899 ms

Loss rate: 0.10%

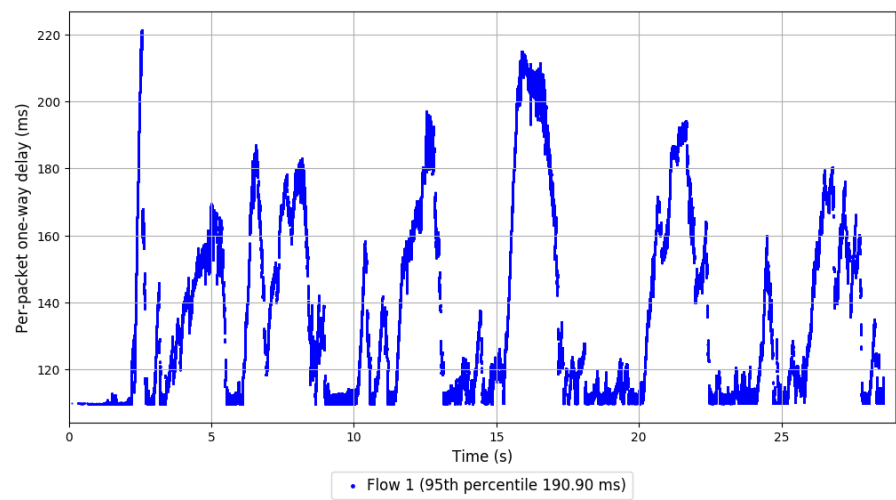
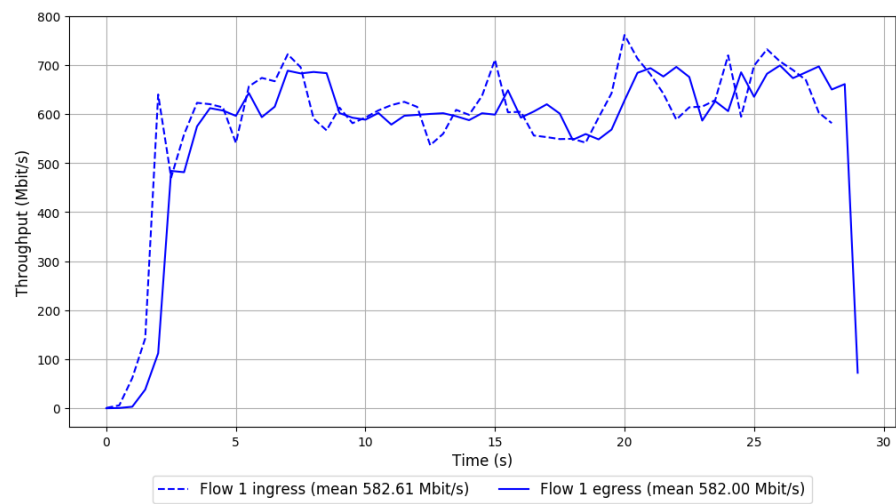
-- Flow 1:

Average throughput: 582.00 Mbit/s

95th percentile per-packet one-way delay: 190.899 ms

Loss rate: 0.10%

Run 3: Report of Indigo-MusesD — Data Link

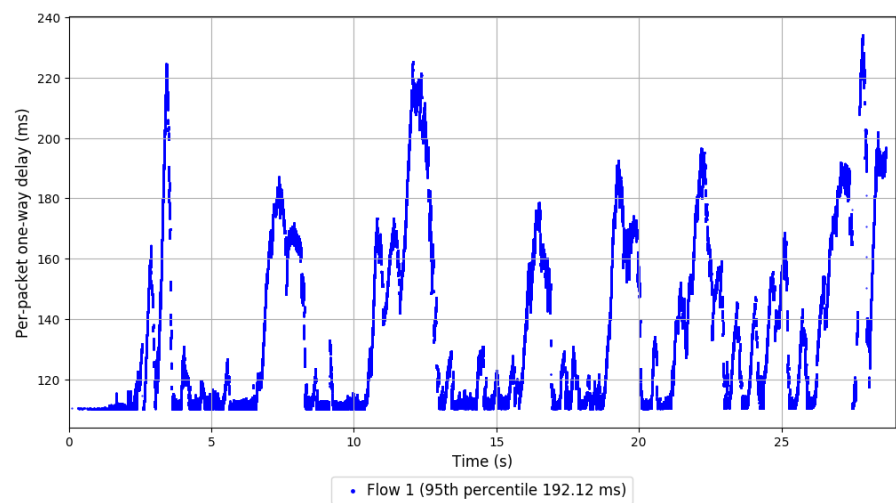
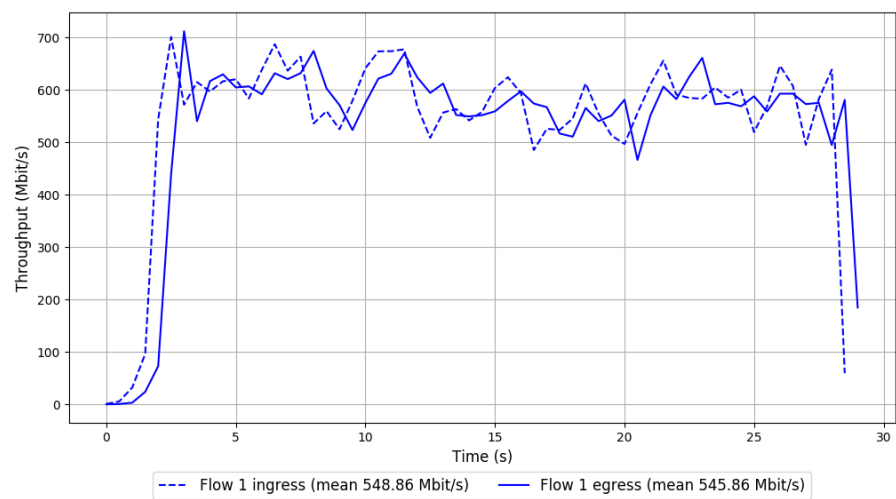


Run 4: Statistics of Indigo-MusesD

Start at: 2019-03-08 21:26:41
End at: 2019-03-08 21:27:11
Local clock offset: 8.968 ms
Remote clock offset: 12.132 ms

Below is generated by plot.py at 2019-03-08 23:33:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 545.86 Mbit/s
95th percentile per-packet one-way delay: 192.116 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 545.86 Mbit/s
95th percentile per-packet one-way delay: 192.116 ms
Loss rate: 0.54%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-03-08 21:58:21

End at: 2019-03-08 21:58:51

Local clock offset: 3.764 ms

Remote clock offset: 5.366 ms

Below is generated by plot.py at 2019-03-08 23:34:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 521.16 Mbit/s

95th percentile per-packet one-way delay: 206.996 ms

Loss rate: 0.32%

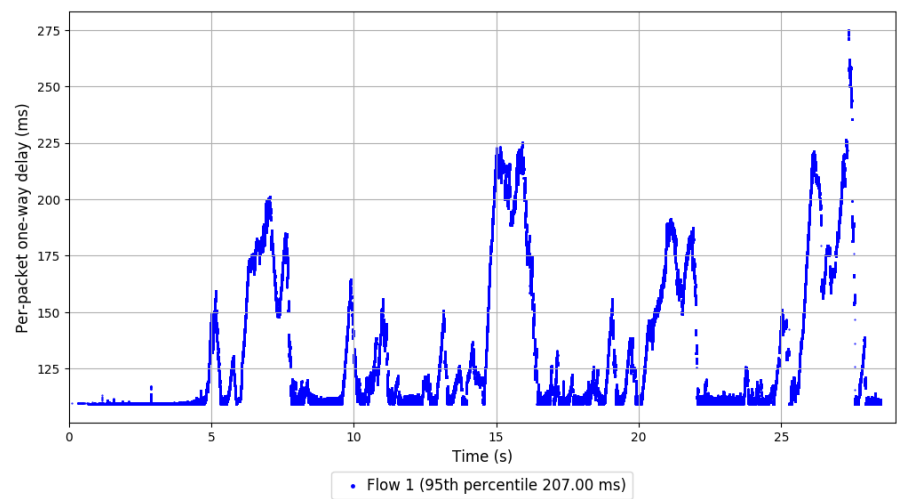
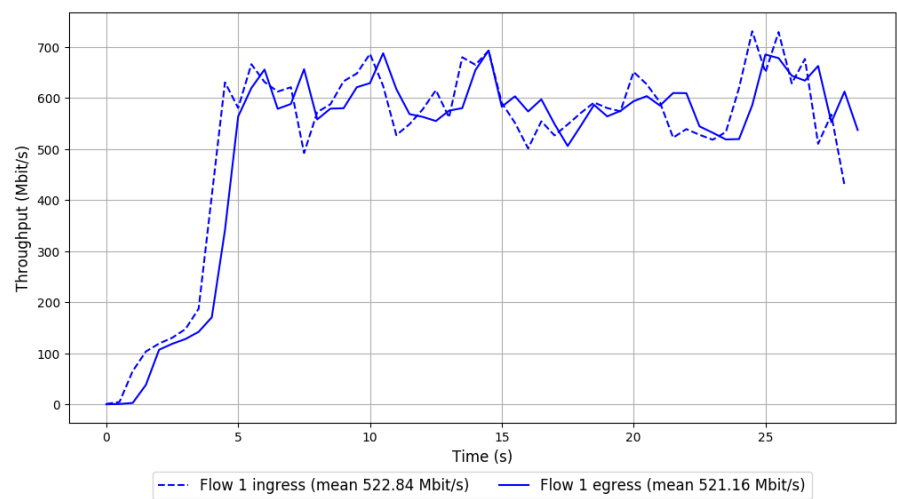
-- Flow 1:

Average throughput: 521.16 Mbit/s

95th percentile per-packet one-way delay: 206.996 ms

Loss rate: 0.32%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

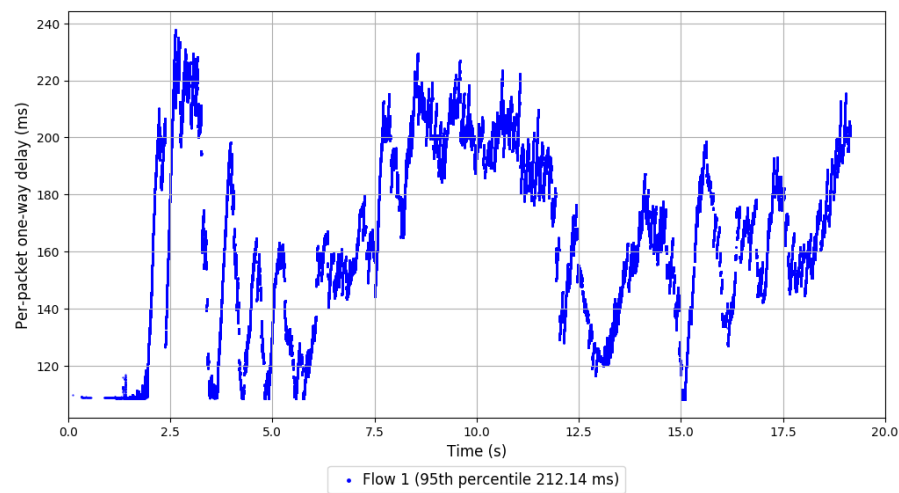
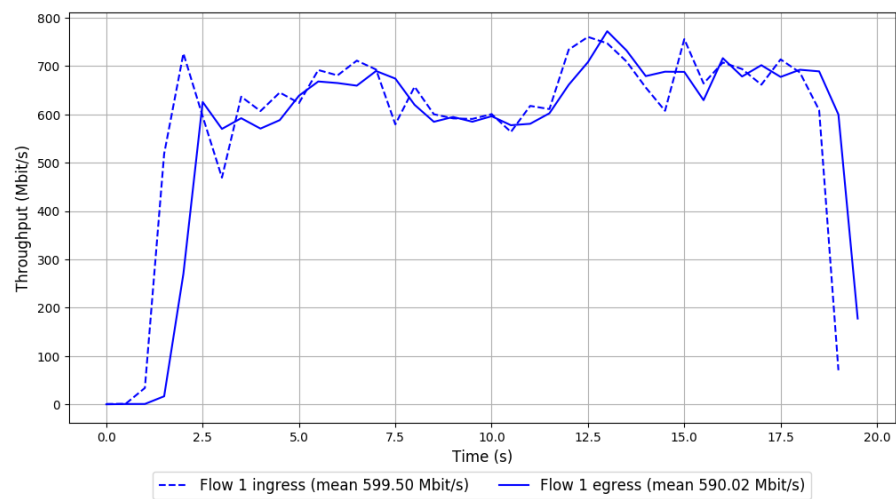
Start at: 2019-03-08 19:47:52

End at: 2019-03-08 19:48:22

Local clock offset: -1.861 ms

Remote clock offset: 2.97 ms

Run 1: Report of Indigo-MusesT — Data Link

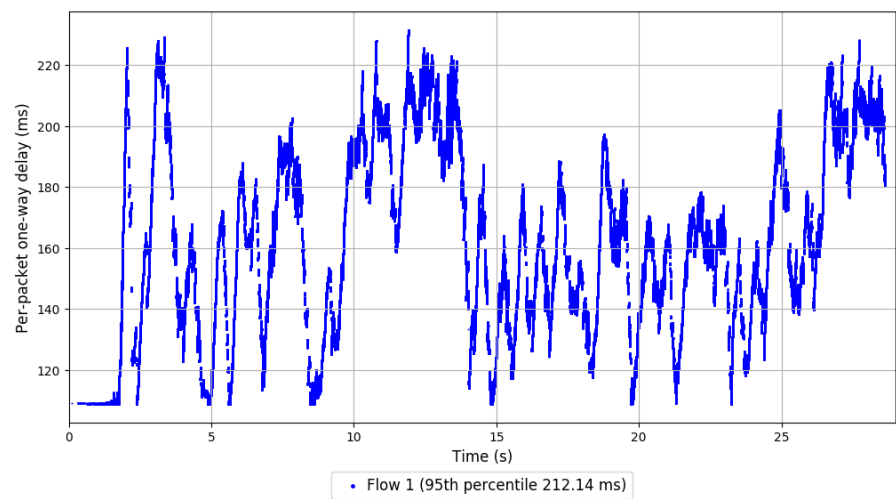
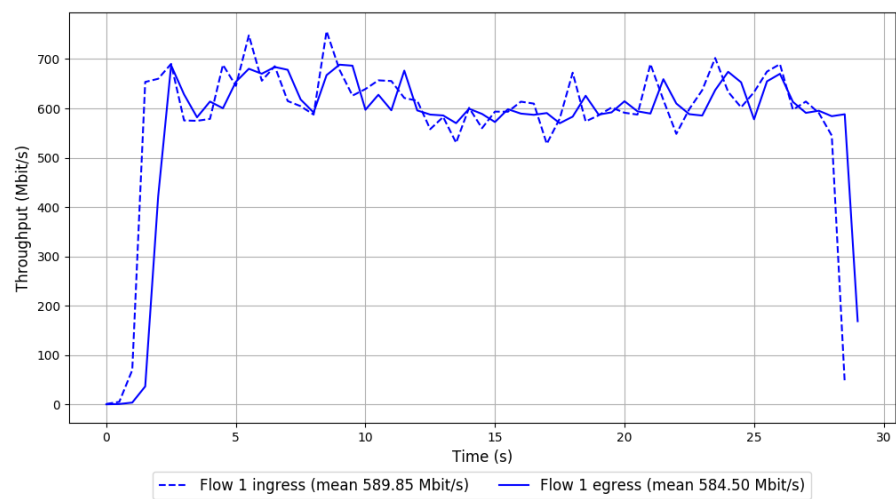


Run 2: Statistics of Indigo-MusesT

Start at: 2019-03-08 20:19:13
End at: 2019-03-08 20:19:43
Local clock offset: 11.947 ms
Remote clock offset: 15.479 ms

Below is generated by plot.py at 2019-03-08 23:39:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 584.50 Mbit/s
95th percentile per-packet one-way delay: 212.137 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 584.50 Mbit/s
95th percentile per-packet one-way delay: 212.137 ms
Loss rate: 0.90%

Run 2: Report of Indigo-MusesT — Data Link

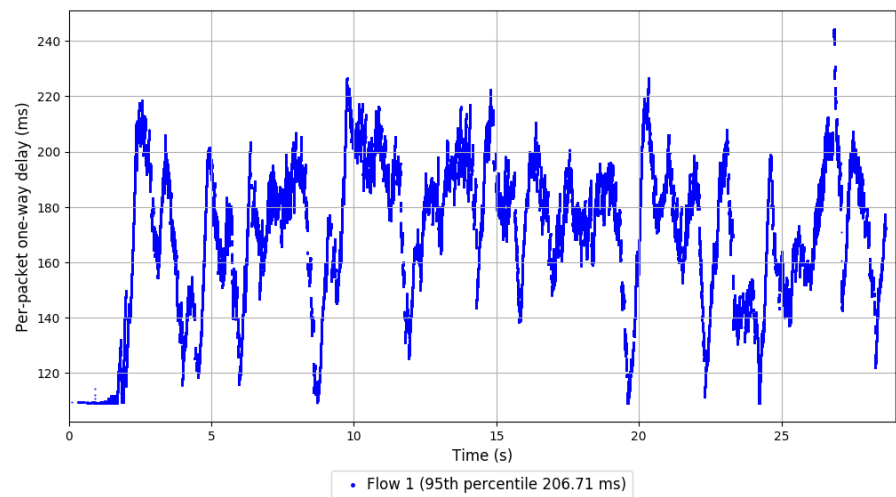
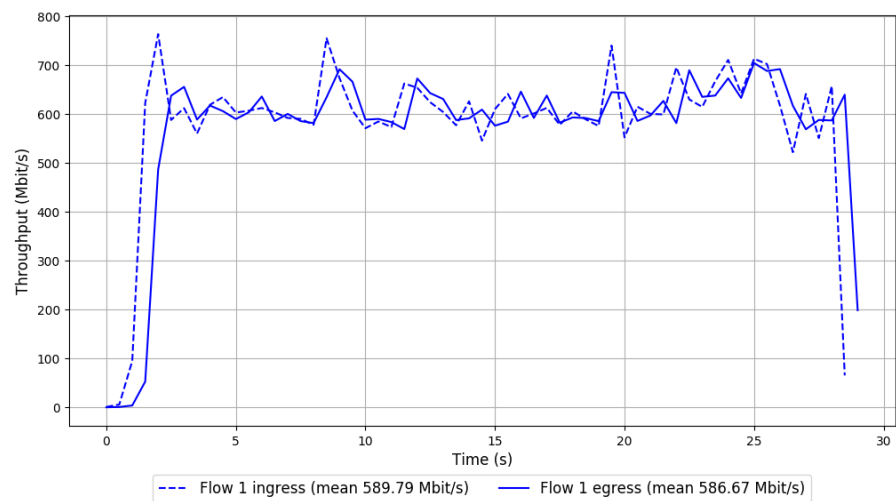


Run 3: Statistics of Indigo-MusesT

Start at: 2019-03-08 20:50:49
End at: 2019-03-08 20:51:19
Local clock offset: 16.89 ms
Remote clock offset: 22.352 ms

Below is generated by plot.py at 2019-03-08 23:39:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 586.67 Mbit/s
95th percentile per-packet one-way delay: 206.708 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 586.67 Mbit/s
95th percentile per-packet one-way delay: 206.708 ms
Loss rate: 0.52%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-03-08 21:22:18

End at: 2019-03-08 21:22:48

Local clock offset: 8.023 ms

Remote clock offset: 10.53 ms

Below is generated by plot.py at 2019-03-08 23:39:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 590.41 Mbit/s

95th percentile per-packet one-way delay: 203.959 ms

Loss rate: 0.70%

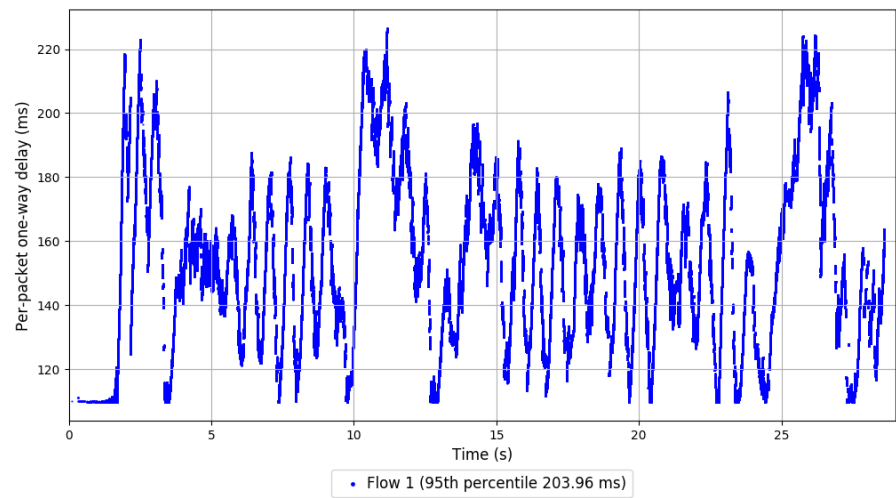
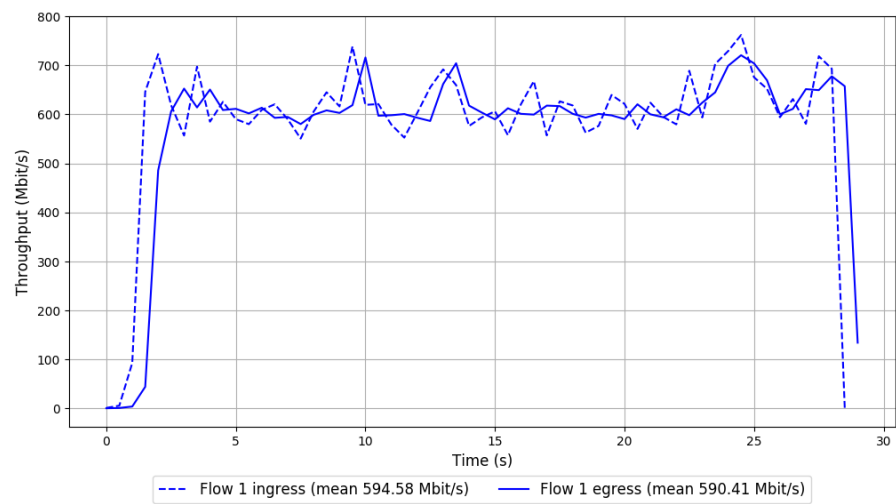
-- Flow 1:

Average throughput: 590.41 Mbit/s

95th percentile per-packet one-way delay: 203.959 ms

Loss rate: 0.70%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-03-08 21:53:57

End at: 2019-03-08 21:54:27

Local clock offset: 3.703 ms

Remote clock offset: 4.853 ms

Below is generated by plot.py at 2019-03-08 23:41:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 607.20 Mbit/s

95th percentile per-packet one-way delay: 214.172 ms

Loss rate: 1.10%

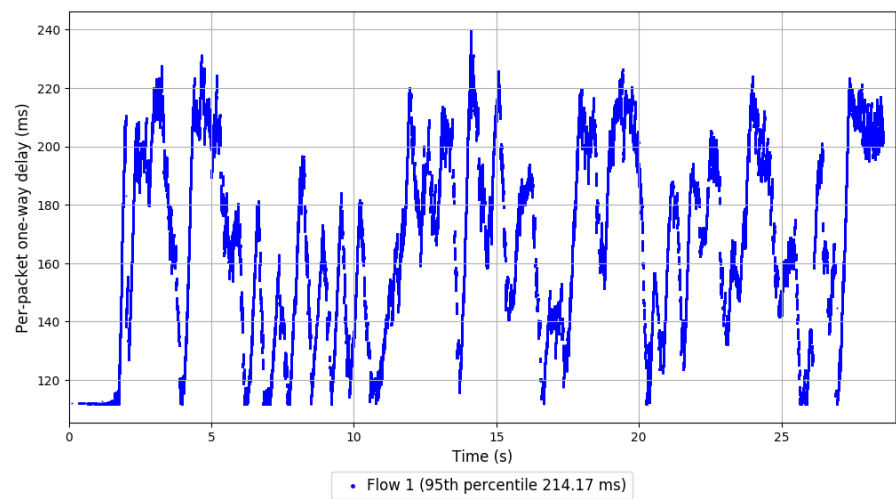
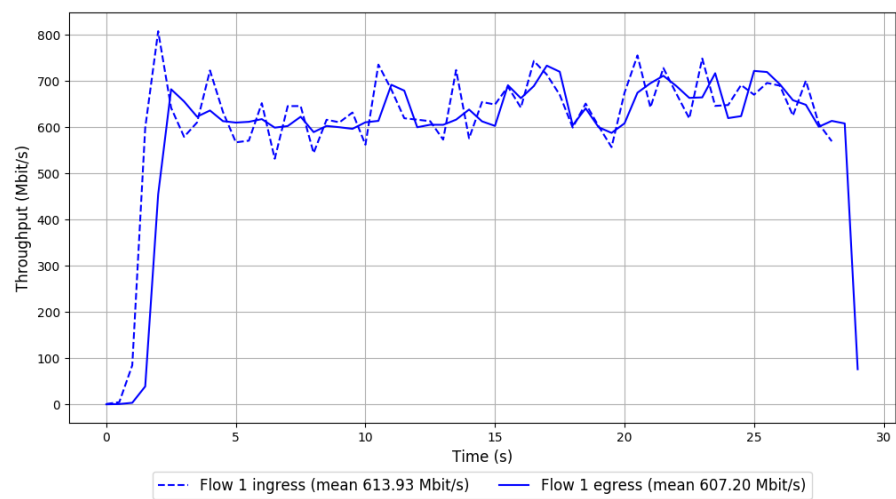
-- Flow 1:

Average throughput: 607.20 Mbit/s

95th percentile per-packet one-way delay: 214.172 ms

Loss rate: 1.10%

Run 5: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2019-03-08 19:50:54

End at: 2019-03-08 19:51:24

Local clock offset: 1.879 ms

Remote clock offset: 4.05 ms

Below is generated by plot.py at 2019-03-08 23:41:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 111.120 ms

Loss rate: 0.00%

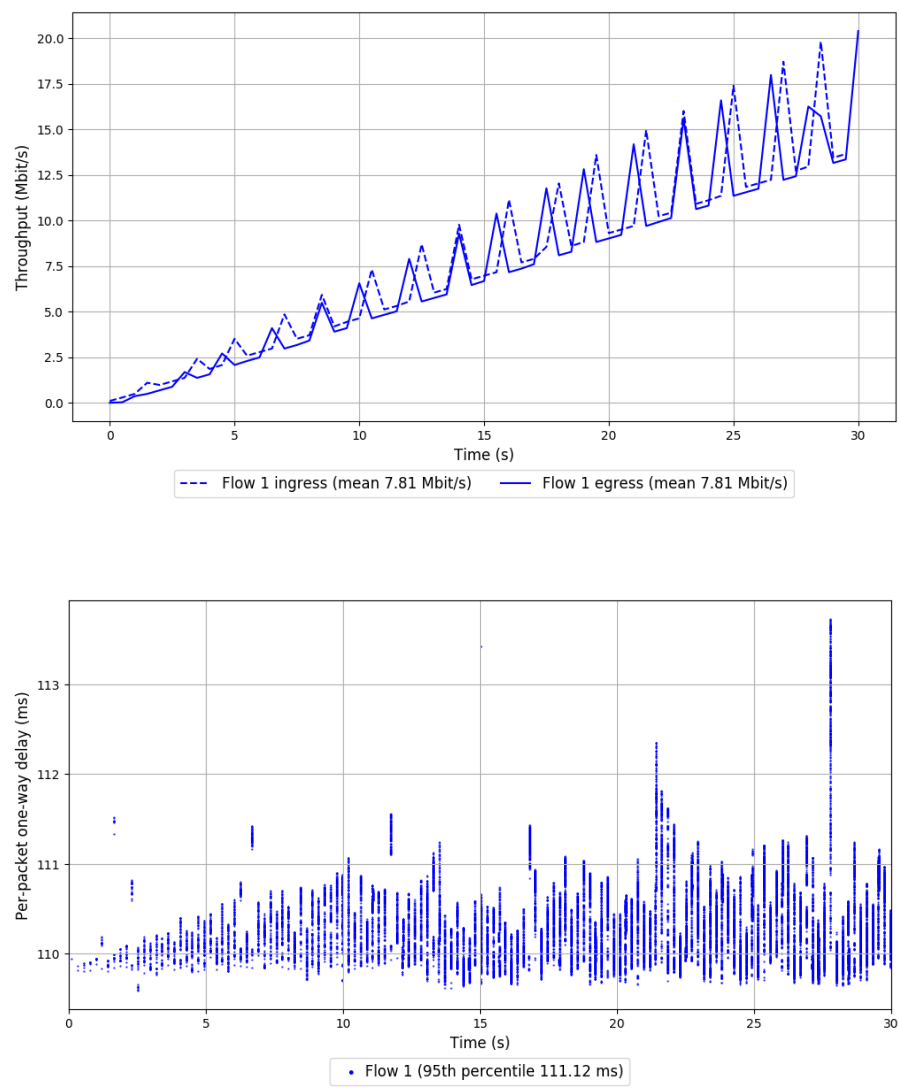
-- Flow 1:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 111.120 ms

Loss rate: 0.00%

Run 1: Report of LEDBAT — Data Link

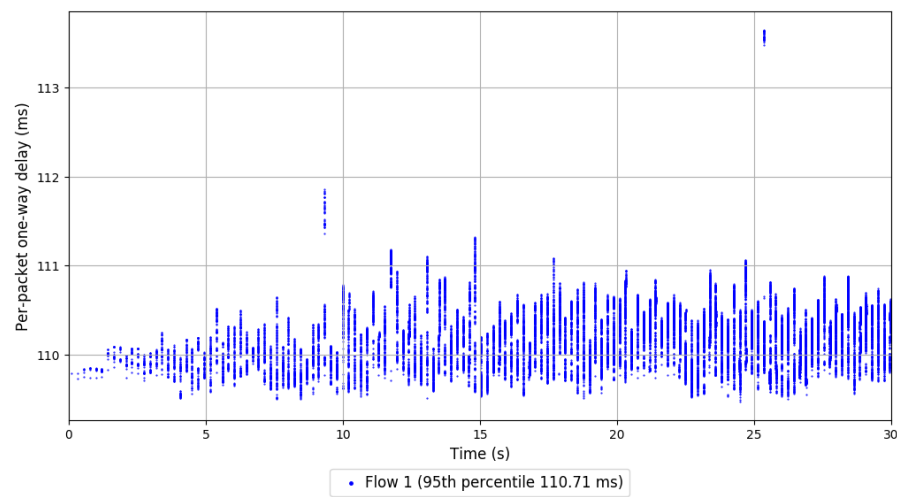
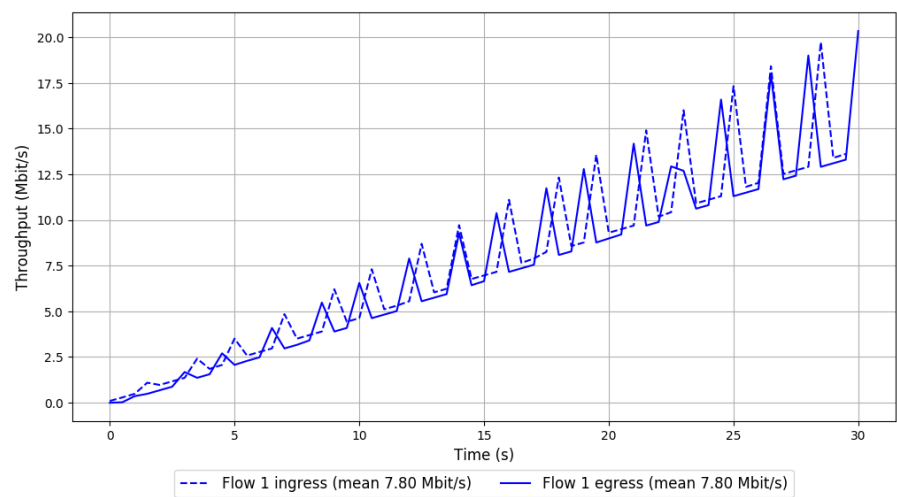


Run 2: Statistics of LEDBAT

Start at: 2019-03-08 20:22:25
End at: 2019-03-08 20:22:55
Local clock offset: 9.379 ms
Remote clock offset: 12.988 ms

Below is generated by plot.py at 2019-03-08 23:41:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.80 Mbit/s
95th percentile per-packet one-way delay: 110.706 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.80 Mbit/s
95th percentile per-packet one-way delay: 110.706 ms
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

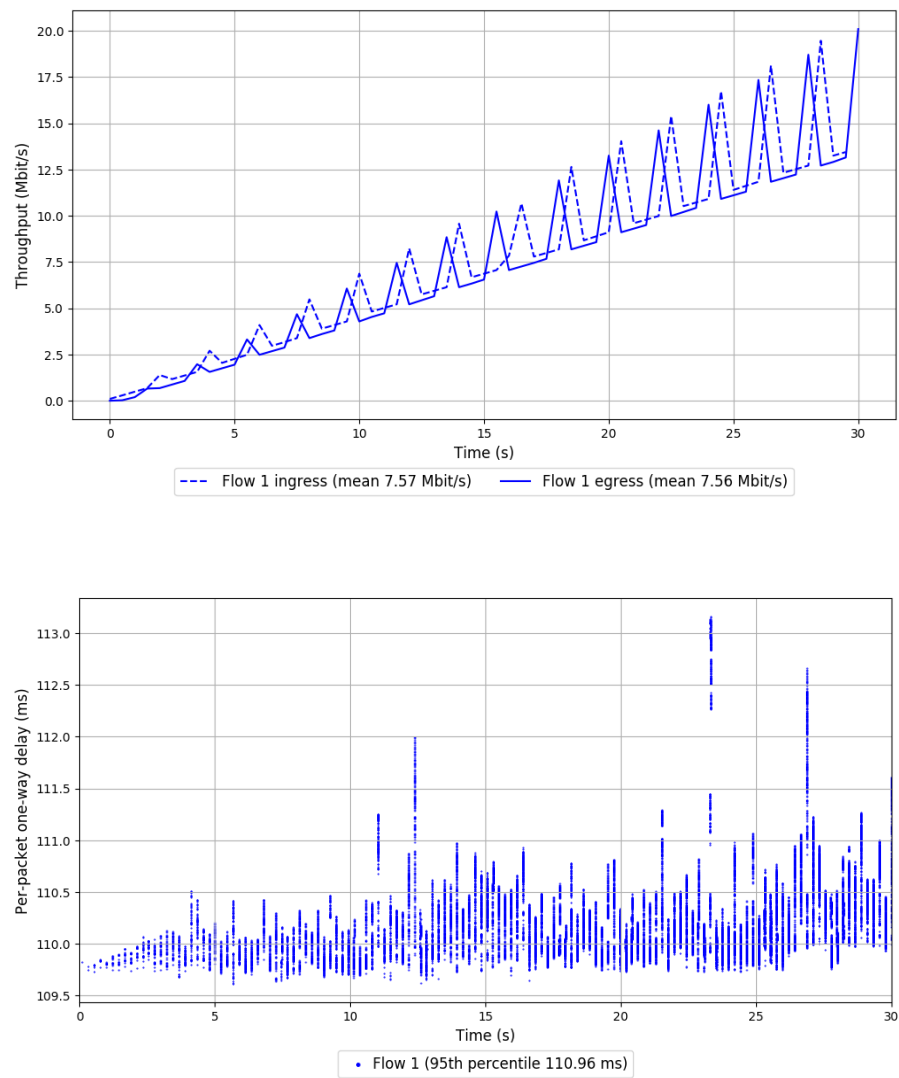


Run 3: Statistics of LEDBAT

Start at: 2019-03-08 20:54:01
End at: 2019-03-08 20:54:31
Local clock offset: 16.45 ms
Remote clock offset: 21.248 ms

Below is generated by plot.py at 2019-03-08 23:41:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.56 Mbit/s
95th percentile per-packet one-way delay: 110.962 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.56 Mbit/s
95th percentile per-packet one-way delay: 110.962 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

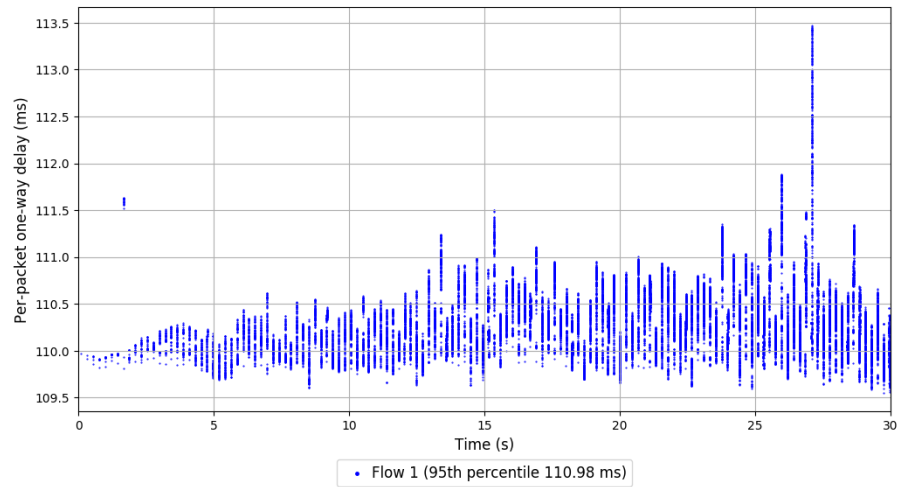
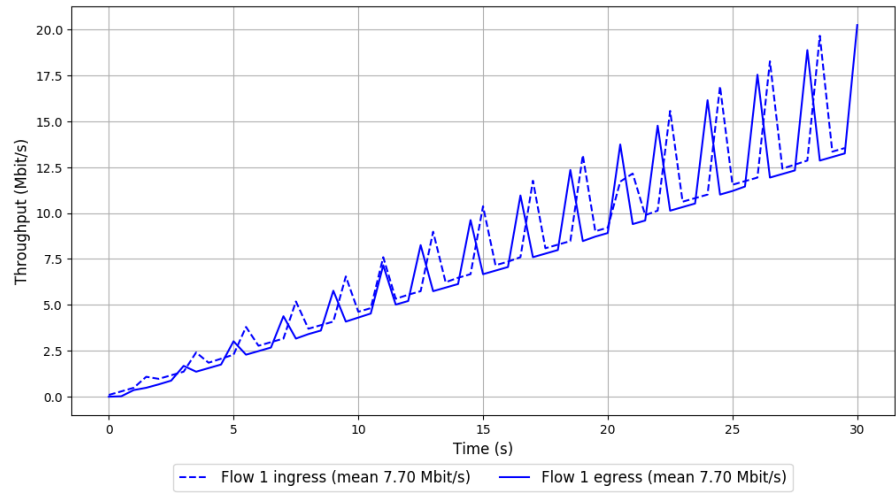


Run 4: Statistics of LEDBAT

Start at: 2019-03-08 21:25:30
End at: 2019-03-08 21:26:00
Local clock offset: 8.662 ms
Remote clock offset: 11.406 ms

Below is generated by plot.py at 2019-03-08 23:41:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.70 Mbit/s
95th percentile per-packet one-way delay: 110.983 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.70 Mbit/s
95th percentile per-packet one-way delay: 110.983 ms
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-03-08 21:57:10

End at: 2019-03-08 21:57:40

Local clock offset: 3.802 ms

Remote clock offset: 5.173 ms

Below is generated by plot.py at 2019-03-08 23:41:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.57 Mbit/s

95th percentile per-packet one-way delay: 113.113 ms

Loss rate: 0.00%

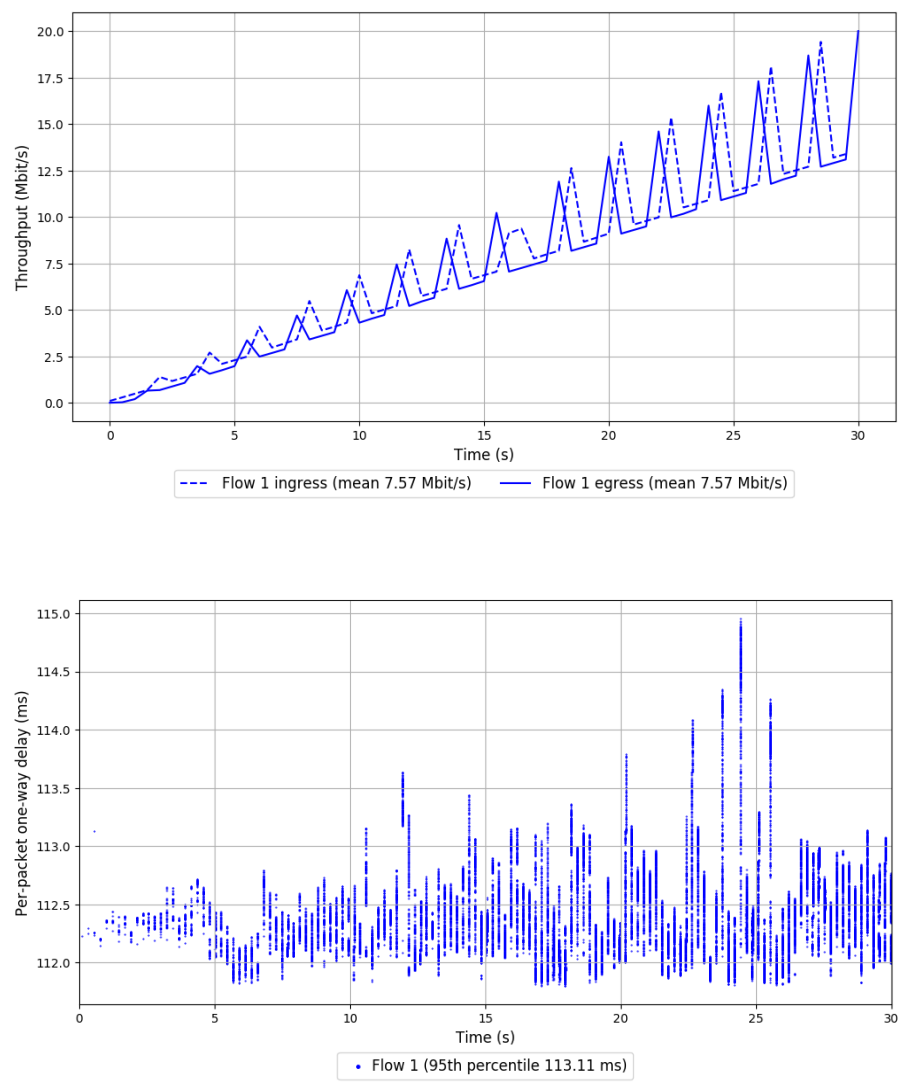
-- Flow 1:

Average throughput: 7.57 Mbit/s

95th percentile per-packet one-way delay: 113.113 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-03-08 20:01:56

End at: 2019-03-08 20:02:26

Local clock offset: 7.934 ms

Remote clock offset: 10.347 ms

Below is generated by plot.py at 2019-03-08 23:45:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 346.96 Mbit/s

95th percentile per-packet one-way delay: 142.830 ms

Loss rate: 0.39%

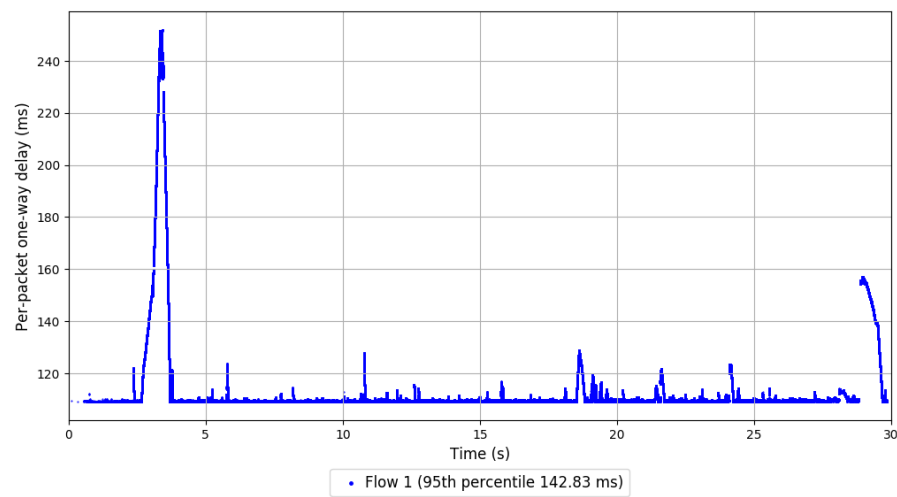
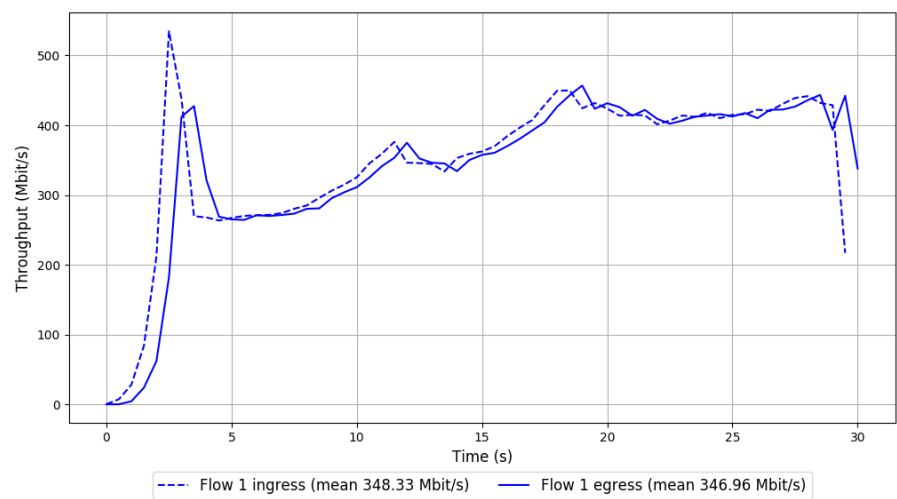
-- Flow 1:

Average throughput: 346.96 Mbit/s

95th percentile per-packet one-way delay: 142.830 ms

Loss rate: 0.39%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-03-08 20:33:31

End at: 2019-03-08 20:34:01

Local clock offset: 9.557 ms

Remote clock offset: 13.05 ms

Below is generated by plot.py at 2019-03-08 23:46:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 387.19 Mbit/s

95th percentile per-packet one-way delay: 217.474 ms

Loss rate: 2.21%

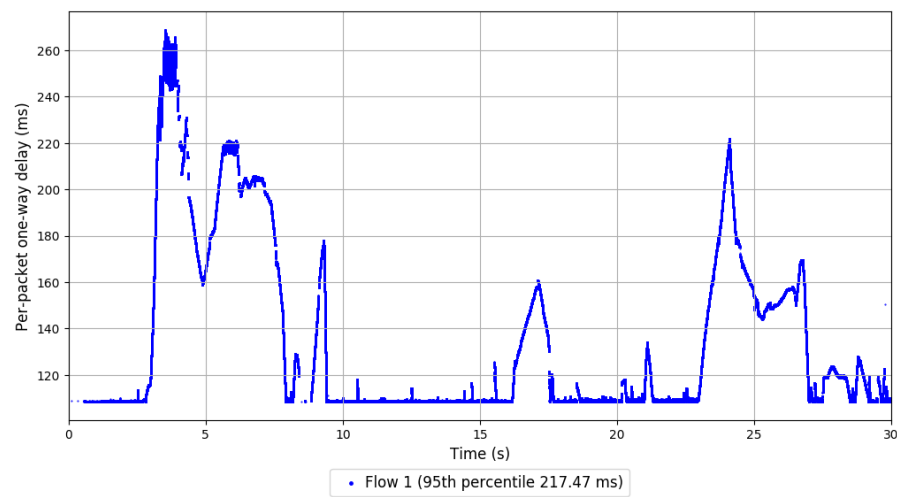
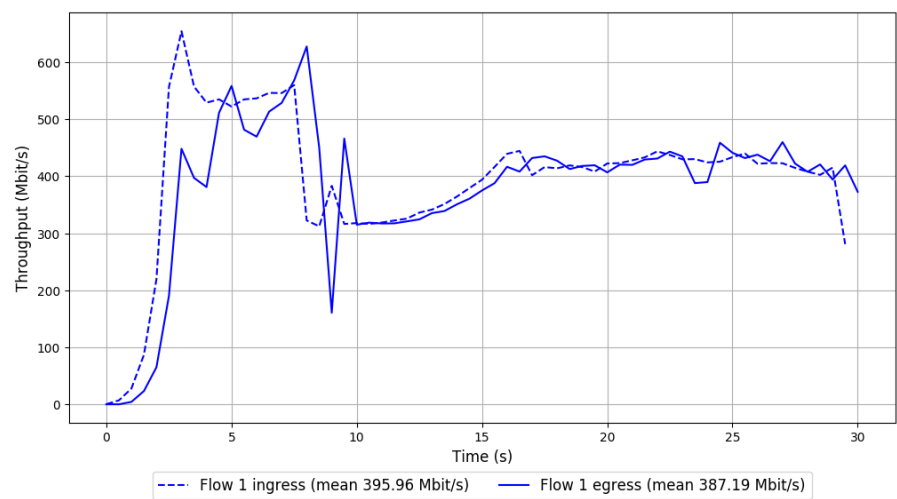
-- Flow 1:

Average throughput: 387.19 Mbit/s

95th percentile per-packet one-way delay: 217.474 ms

Loss rate: 2.21%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-03-08 21:05:09

End at: 2019-03-08 21:05:39

Local clock offset: 7.324 ms

Remote clock offset: 9.969 ms

Below is generated by plot.py at 2019-03-08 23:46:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 358.44 Mbit/s

95th percentile per-packet one-way delay: 177.753 ms

Loss rate: 1.52%

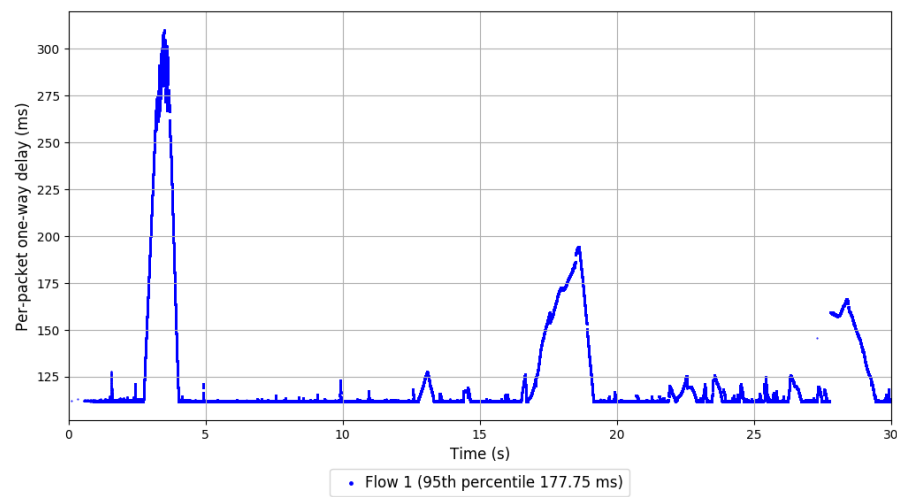
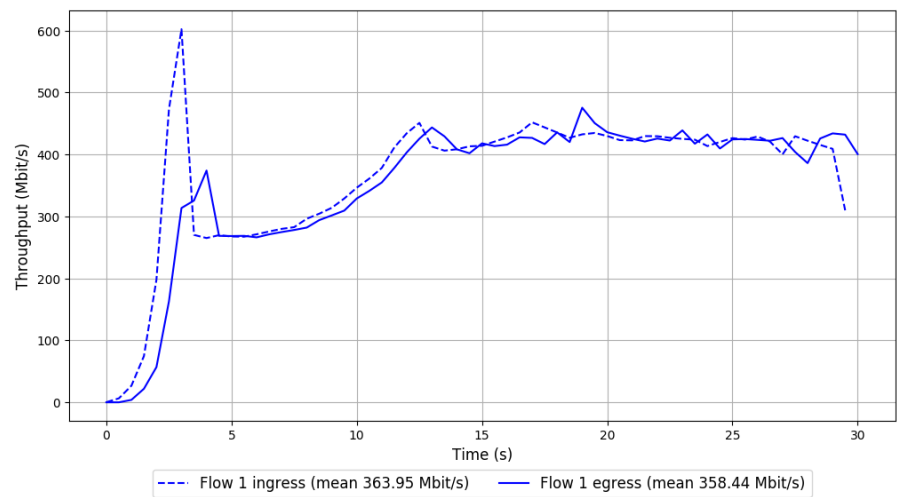
-- Flow 1:

Average throughput: 358.44 Mbit/s

95th percentile per-packet one-way delay: 177.753 ms

Loss rate: 1.52%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-03-08 21:36:40

End at: 2019-03-08 21:37:10

Local clock offset: 4.18 ms

Remote clock offset: 5.486 ms

Below is generated by plot.py at 2019-03-08 23:46:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 355.50 Mbit/s

95th percentile per-packet one-way delay: 127.103 ms

Loss rate: 0.50%

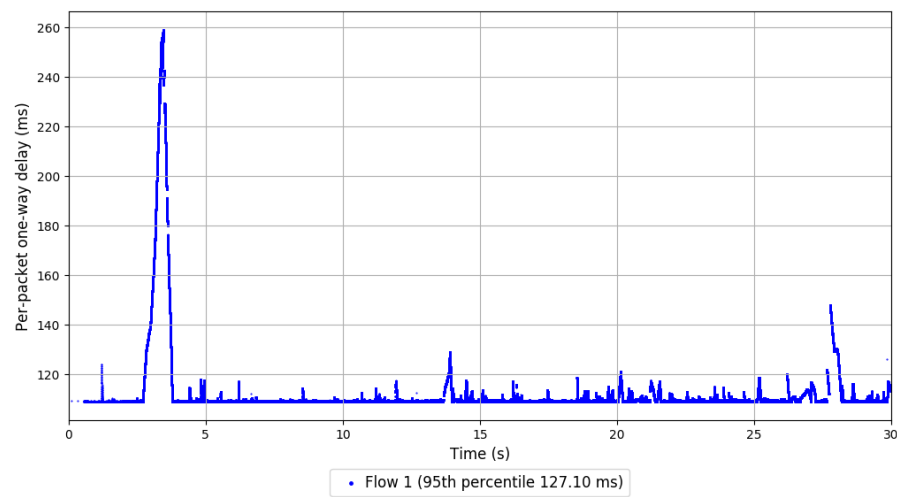
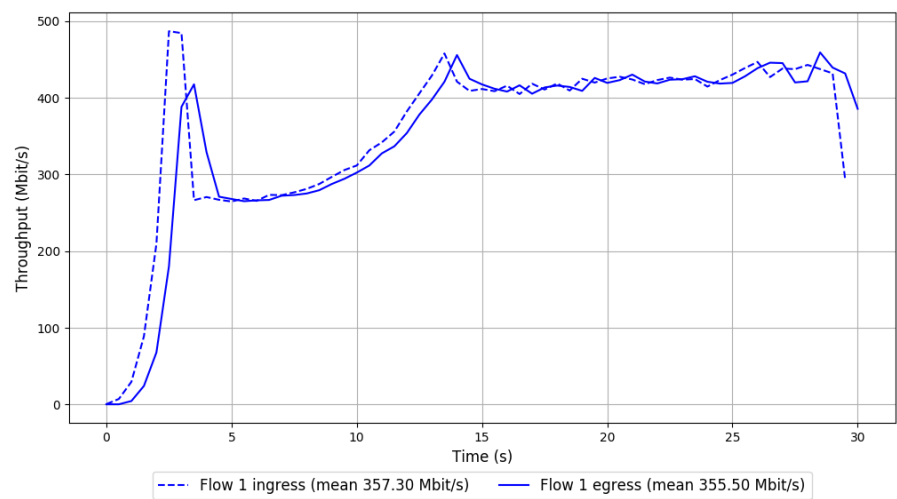
-- Flow 1:

Average throughput: 355.50 Mbit/s

95th percentile per-packet one-way delay: 127.103 ms

Loss rate: 0.50%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-03-08 22:08:21

End at: 2019-03-08 22:08:51

Local clock offset: 2.111 ms

Remote clock offset: 2.686 ms

Below is generated by plot.py at 2019-03-08 23:52:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 361.58 Mbit/s

95th percentile per-packet one-way delay: 224.457 ms

Loss rate: 2.39%

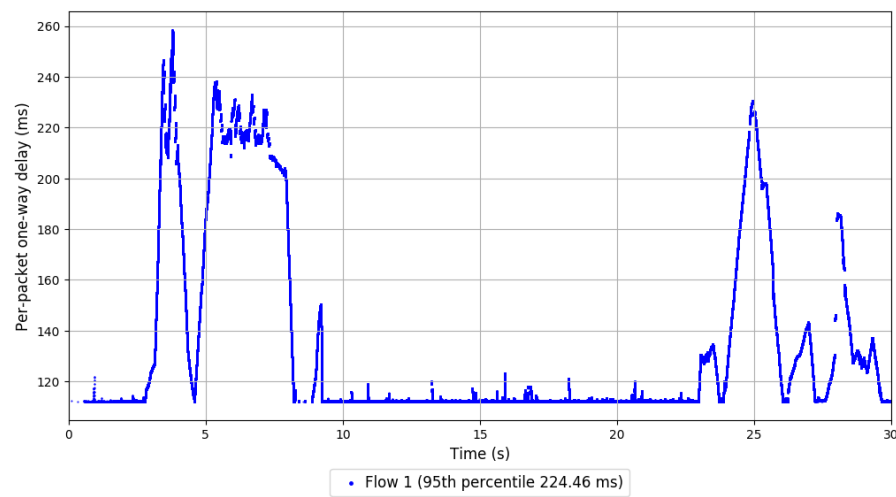
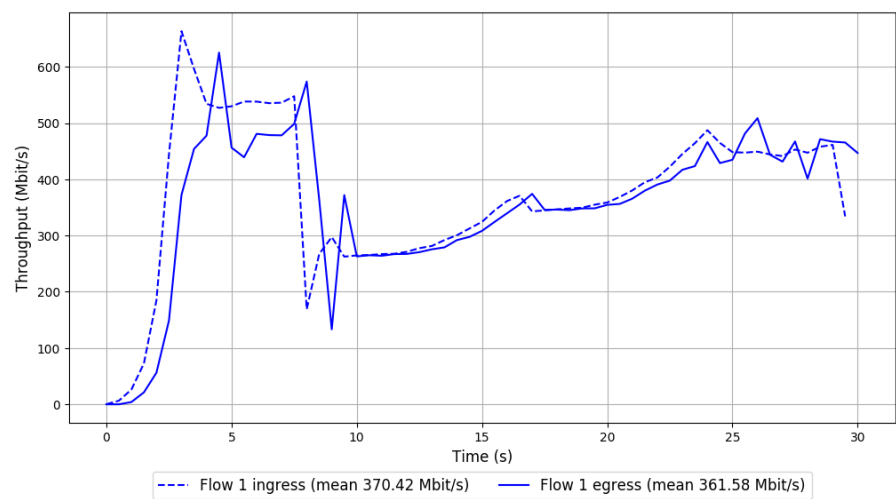
-- Flow 1:

Average throughput: 361.58 Mbit/s

95th percentile per-packet one-way delay: 224.457 ms

Loss rate: 2.39%

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2019-03-08 20:11:46

End at: 2019-03-08 20:12:16

Local clock offset: 8.236 ms

Remote clock offset: 10.316 ms

Below is generated by plot.py at 2019-03-08 23:52:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 260.35 Mbit/s

95th percentile per-packet one-way delay: 216.169 ms

Loss rate: 2.66%

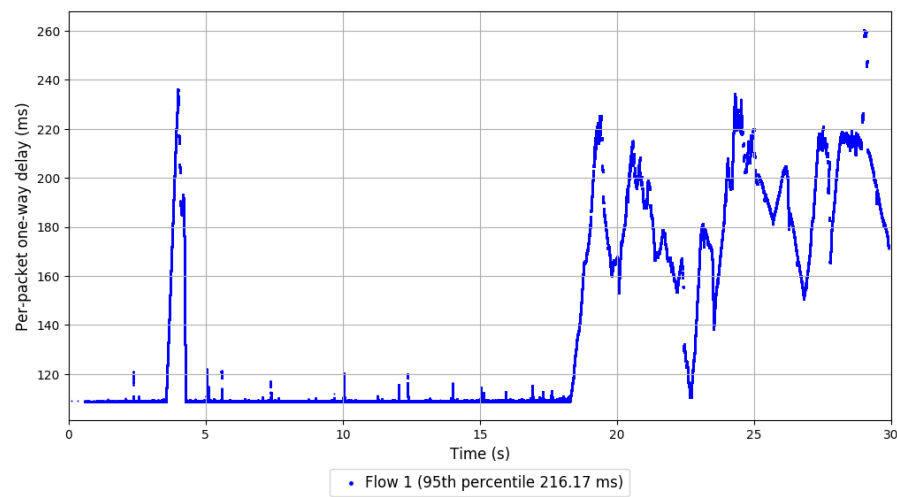
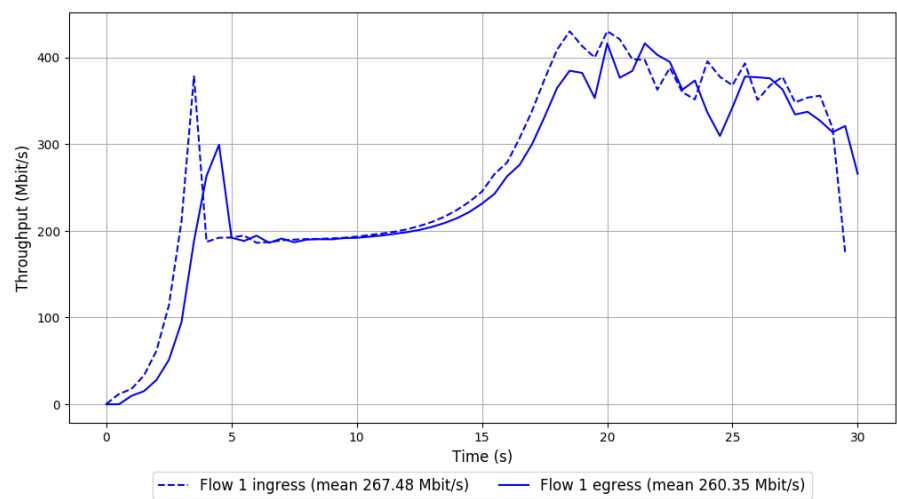
-- Flow 1:

Average throughput: 260.35 Mbit/s

95th percentile per-packet one-way delay: 216.169 ms

Loss rate: 2.66%

Run 1: Report of PCC-Expr — Data Link

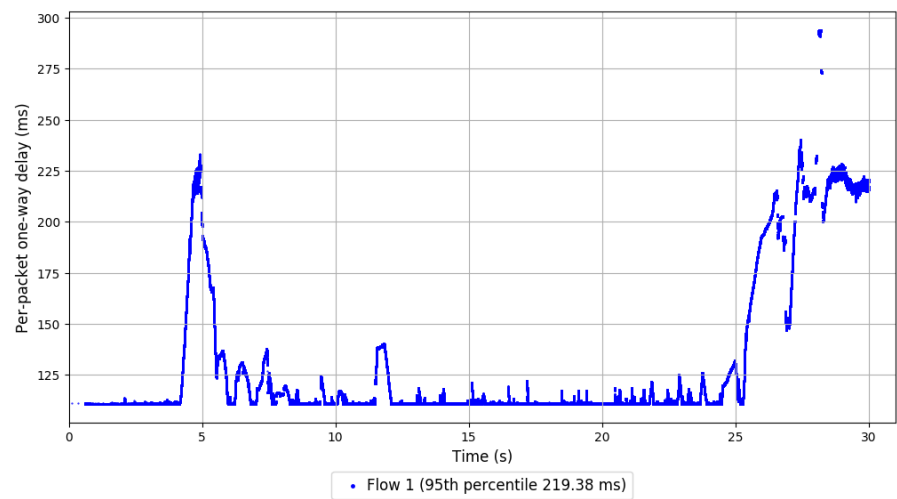
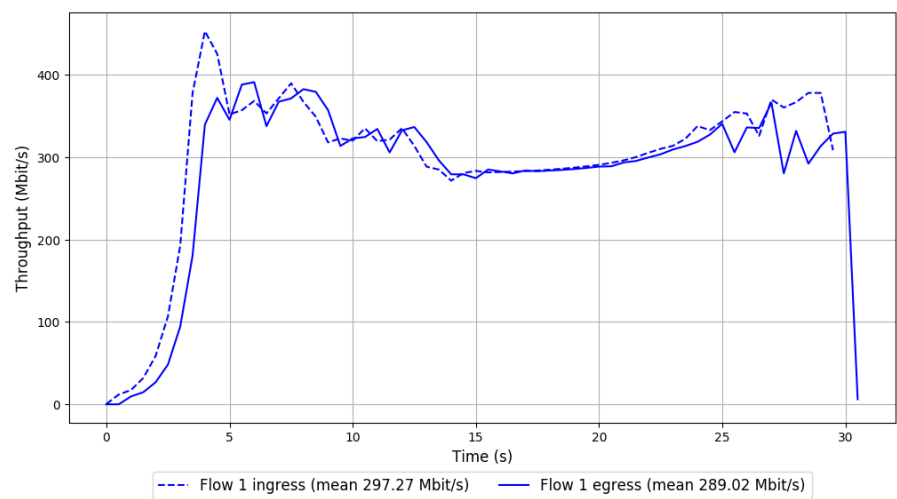


Run 2: Statistics of PCC-Expr

Start at: 2019-03-08 20:43:16
End at: 2019-03-08 20:43:46
Local clock offset: 12.617 ms
Remote clock offset: 17.984 ms

Below is generated by plot.py at 2019-03-08 23:52:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 289.02 Mbit/s
95th percentile per-packet one-way delay: 219.382 ms
Loss rate: 2.78%
-- Flow 1:
Average throughput: 289.02 Mbit/s
95th percentile per-packet one-way delay: 219.382 ms
Loss rate: 2.78%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-03-08 21:14:56

End at: 2019-03-08 21:15:26

Local clock offset: 6.979 ms

Remote clock offset: 9.394 ms

Below is generated by plot.py at 2019-03-08 23:52:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 261.16 Mbit/s

95th percentile per-packet one-way delay: 196.437 ms

Loss rate: 0.14%

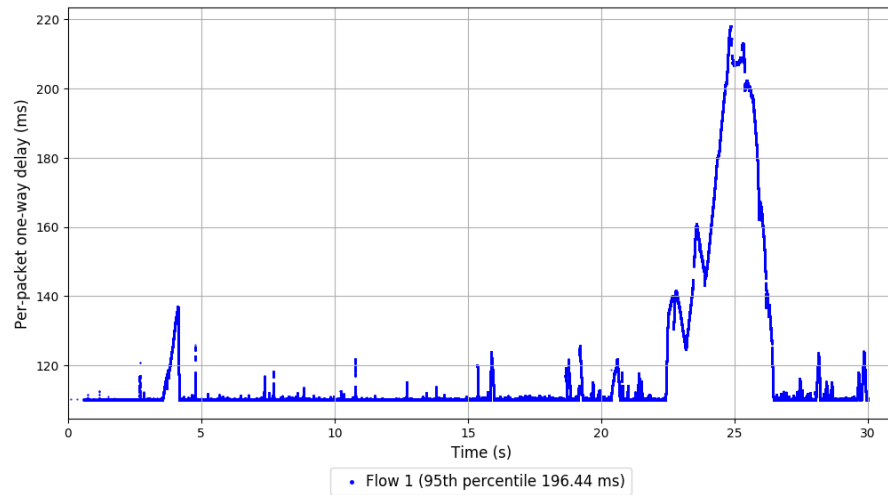
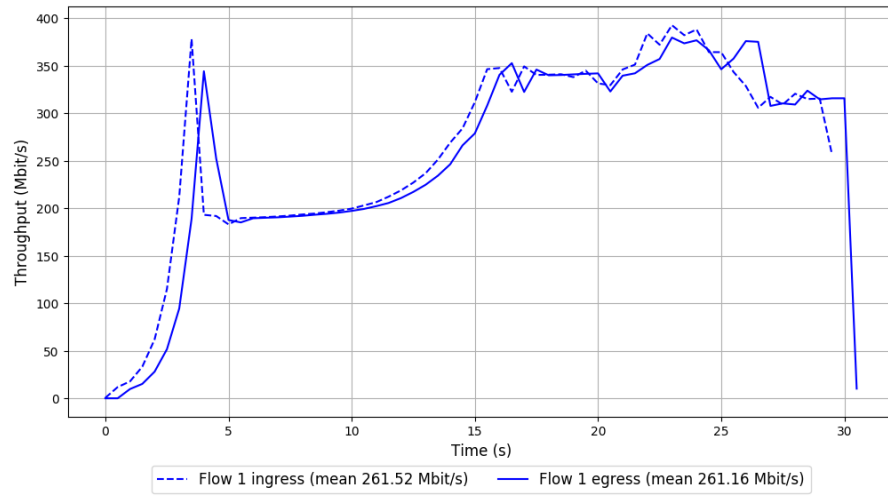
-- Flow 1:

Average throughput: 261.16 Mbit/s

95th percentile per-packet one-way delay: 196.437 ms

Loss rate: 0.14%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-03-08 21:46:32

End at: 2019-03-08 21:47:02

Local clock offset: 3.233 ms

Remote clock offset: 3.979 ms

Below is generated by plot.py at 2019-03-08 23:53:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 265.99 Mbit/s

95th percentile per-packet one-way delay: 187.391 ms

Loss rate: 1.31%

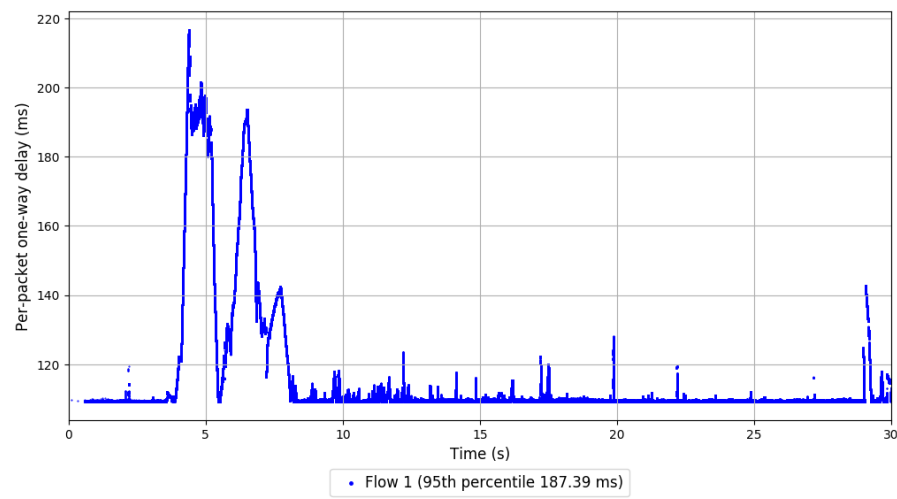
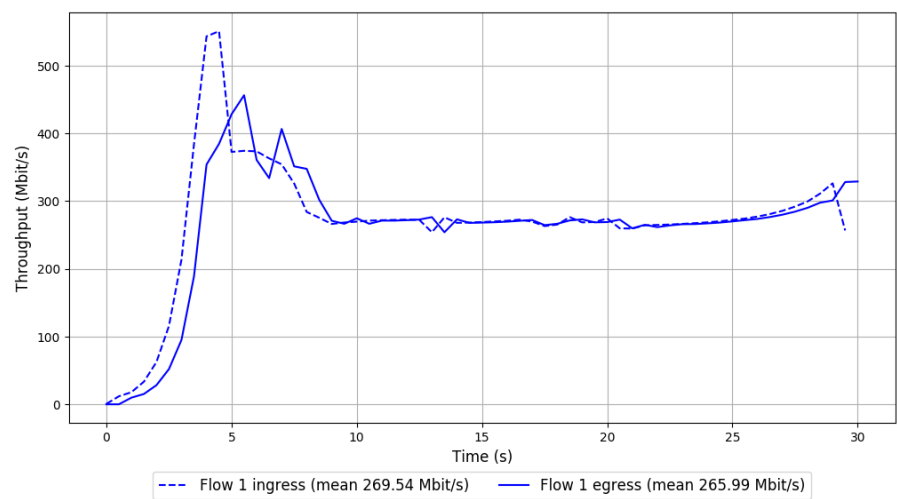
-- Flow 1:

Average throughput: 265.99 Mbit/s

95th percentile per-packet one-way delay: 187.391 ms

Loss rate: 1.31%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-03-08 22:18:17

End at: 2019-03-08 22:18:47

Local clock offset: 1.505 ms

Remote clock offset: 1.406 ms

Below is generated by plot.py at 2019-03-08 23:55:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 265.20 Mbit/s

95th percentile per-packet one-way delay: 218.616 ms

Loss rate: 2.65%

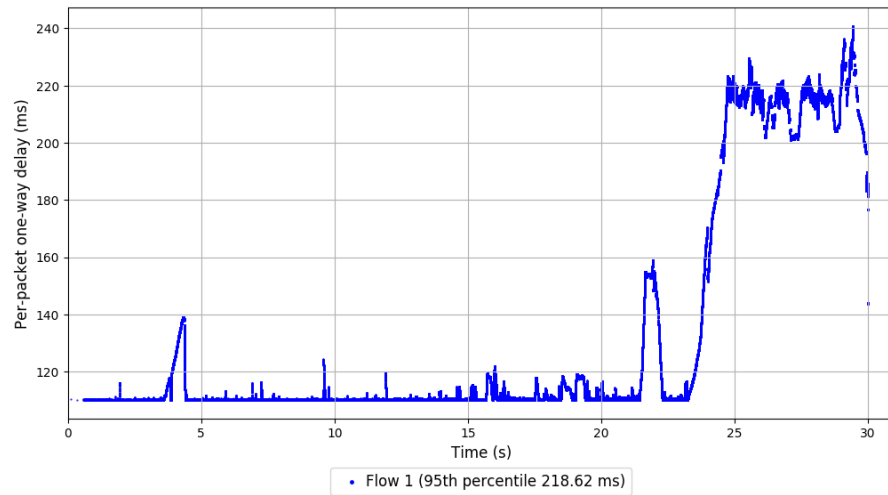
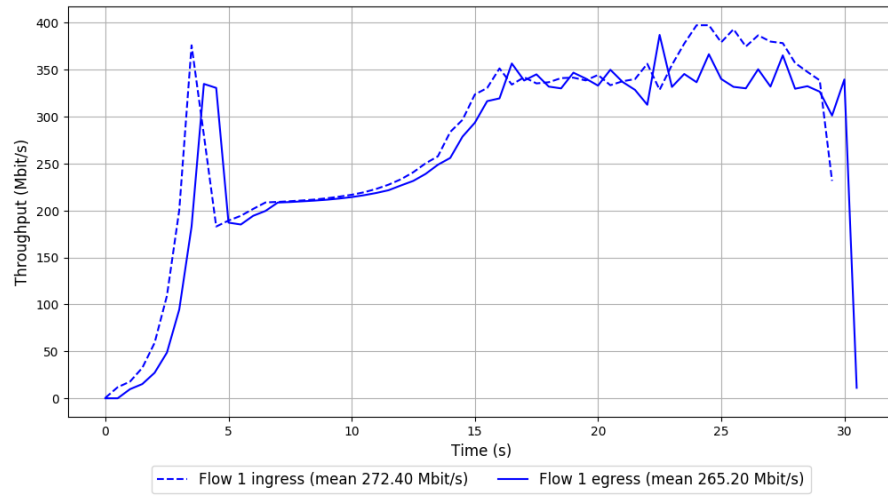
-- Flow 1:

Average throughput: 265.20 Mbit/s

95th percentile per-packet one-way delay: 218.616 ms

Loss rate: 2.65%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-03-08 20:07:53

End at: 2019-03-08 20:08:23

Local clock offset: 6.202 ms

Remote clock offset: 7.853 ms

Below is generated by plot.py at 2019-03-08 23:55:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.99 Mbit/s

95th percentile per-packet one-way delay: 108.999 ms

Loss rate: 0.00%

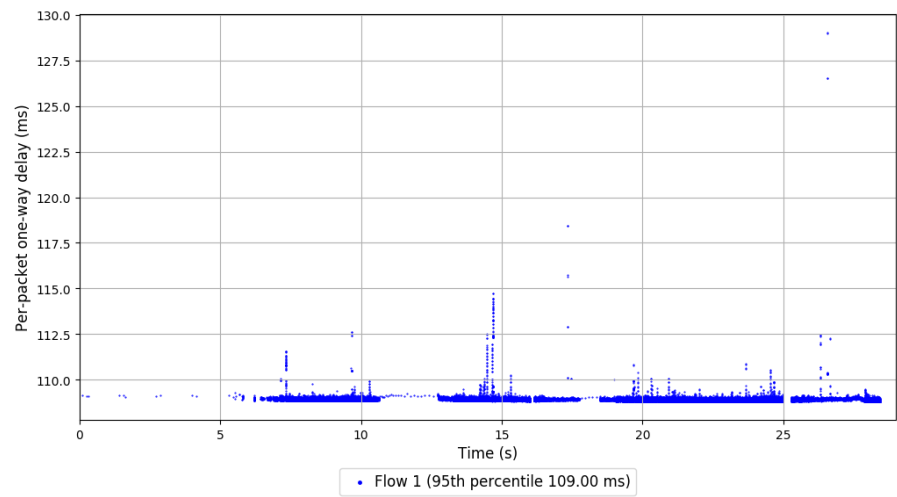
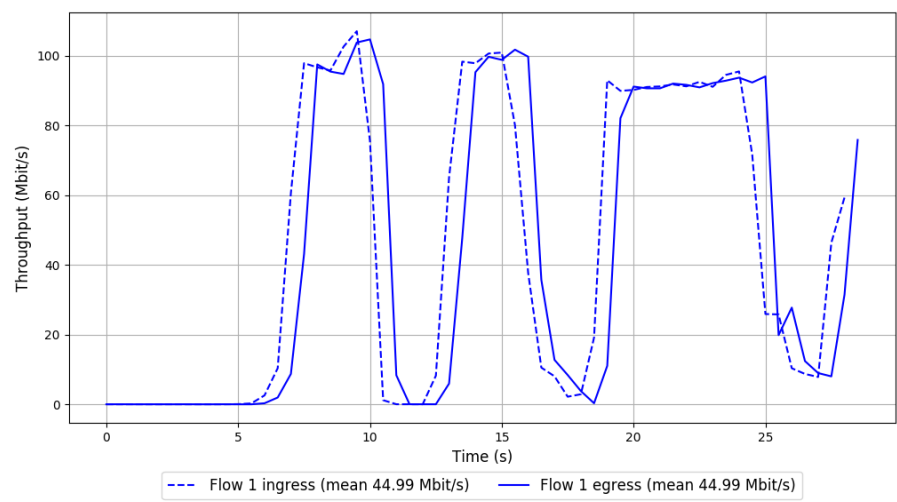
-- Flow 1:

Average throughput: 44.99 Mbit/s

95th percentile per-packet one-way delay: 108.999 ms

Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link

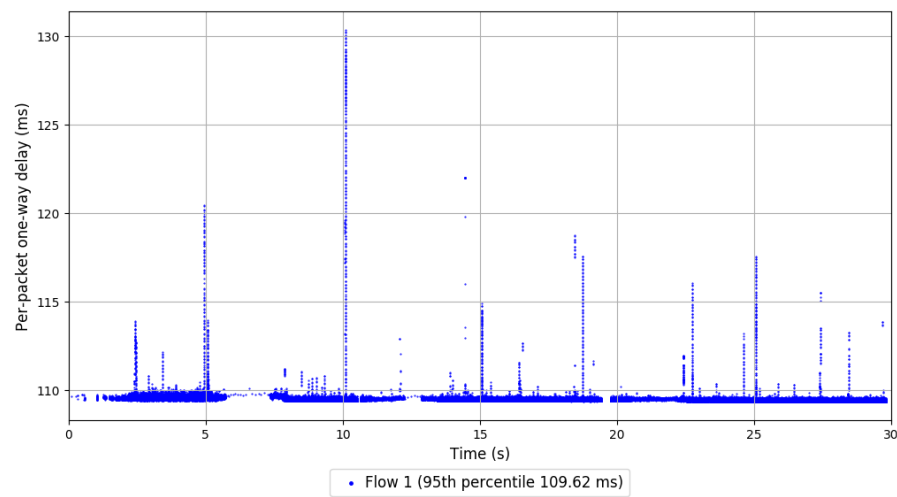
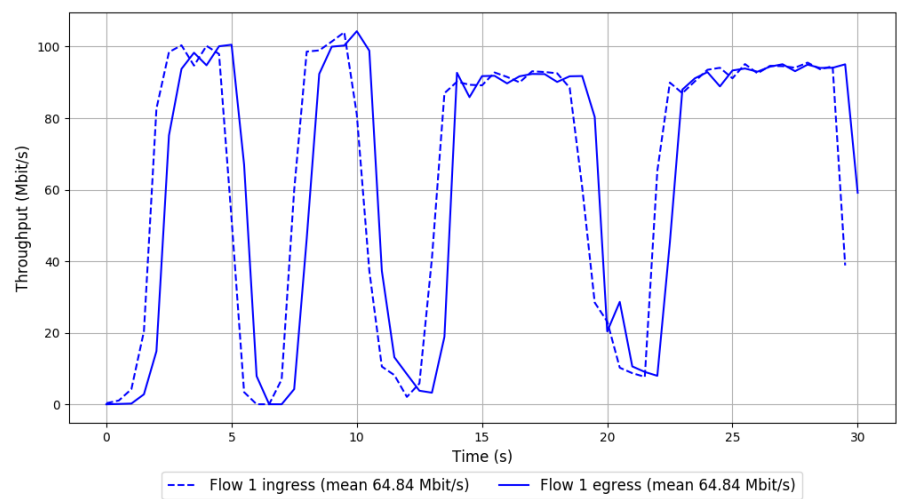


Run 2: Statistics of QUIC Cubic

Start at: 2019-03-08 20:39:21
End at: 2019-03-08 20:39:51
Local clock offset: 11.5 ms
Remote clock offset: 15.803 ms

Below is generated by plot.py at 2019-03-08 23:55:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 64.84 Mbit/s
95th percentile per-packet one-way delay: 109.619 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 64.84 Mbit/s
95th percentile per-packet one-way delay: 109.619 ms
Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-03-08 21:11:07

End at: 2019-03-08 21:11:37

Local clock offset: 5.332 ms

Remote clock offset: 9.098 ms

Below is generated by plot.py at 2019-03-08 23:55:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.11 Mbit/s

95th percentile per-packet one-way delay: 111.534 ms

Loss rate: 0.00%

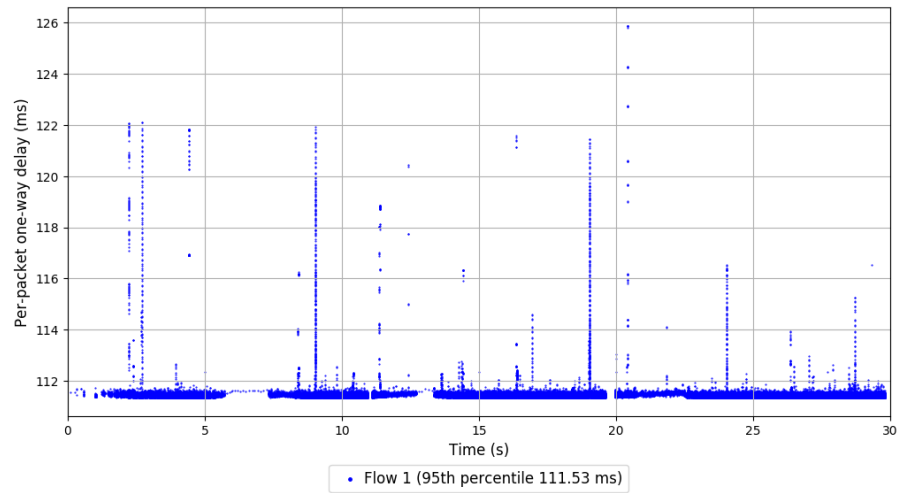
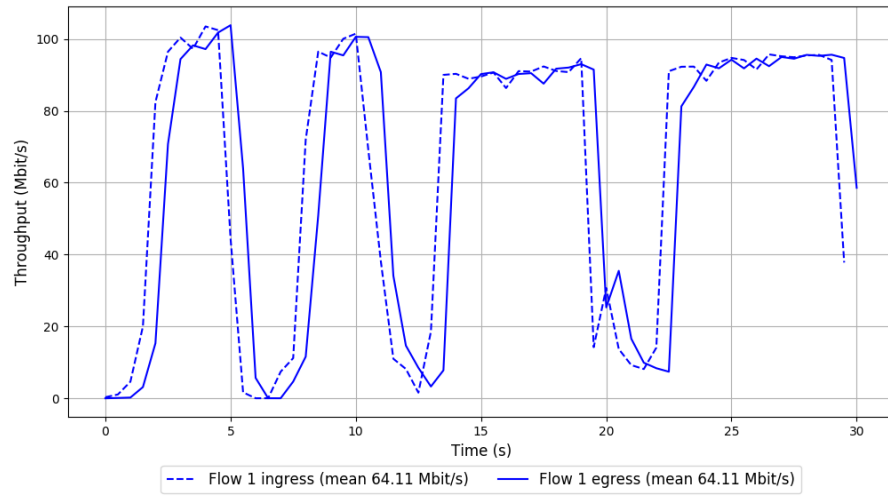
-- Flow 1:

Average throughput: 64.11 Mbit/s

95th percentile per-packet one-way delay: 111.534 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-03-08 21:42:42

End at: 2019-03-08 21:43:12

Local clock offset: 3.239 ms

Remote clock offset: 4.42 ms

Below is generated by plot.py at 2019-03-08 23:55:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.93 Mbit/s

95th percentile per-packet one-way delay: 109.899 ms

Loss rate: 0.00%

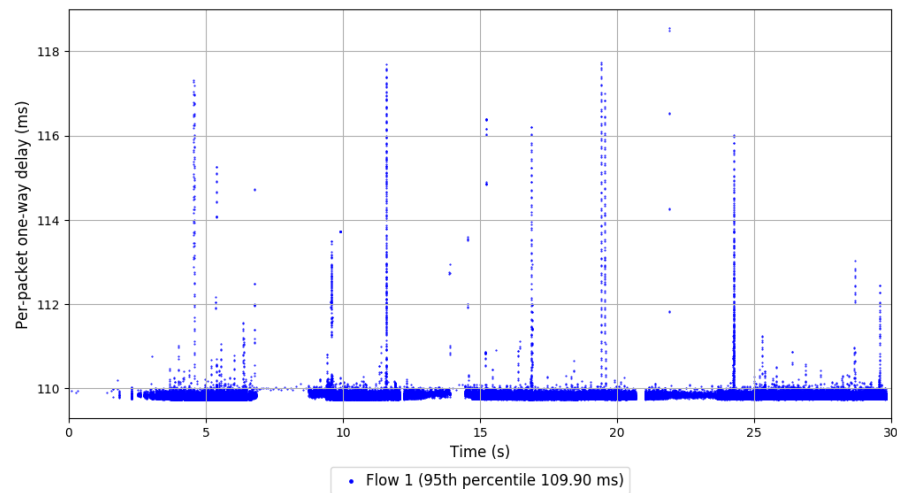
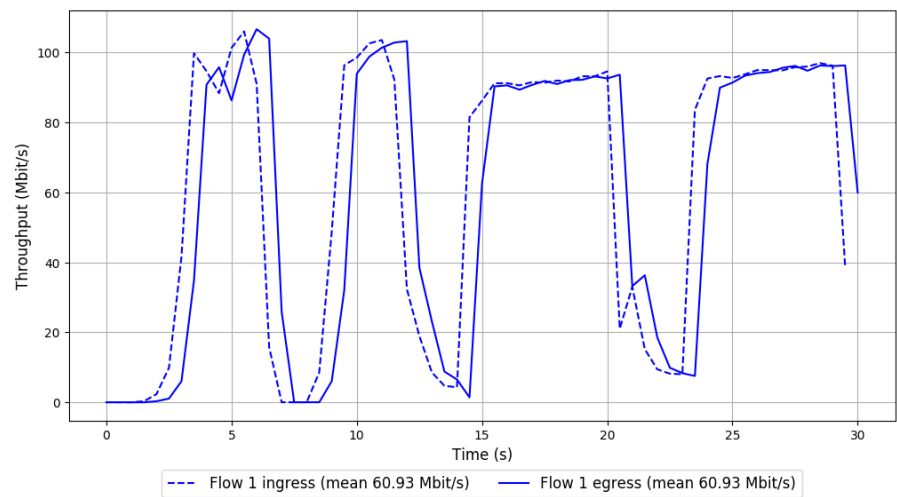
-- Flow 1:

Average throughput: 60.93 Mbit/s

95th percentile per-packet one-way delay: 109.899 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-03-08 22:14:22

End at: 2019-03-08 22:14:52

Local clock offset: 1.771 ms

Remote clock offset: 1.641 ms

Below is generated by plot.py at 2019-03-08 23:55:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.66 Mbit/s

95th percentile per-packet one-way delay: 110.974 ms

Loss rate: 0.00%

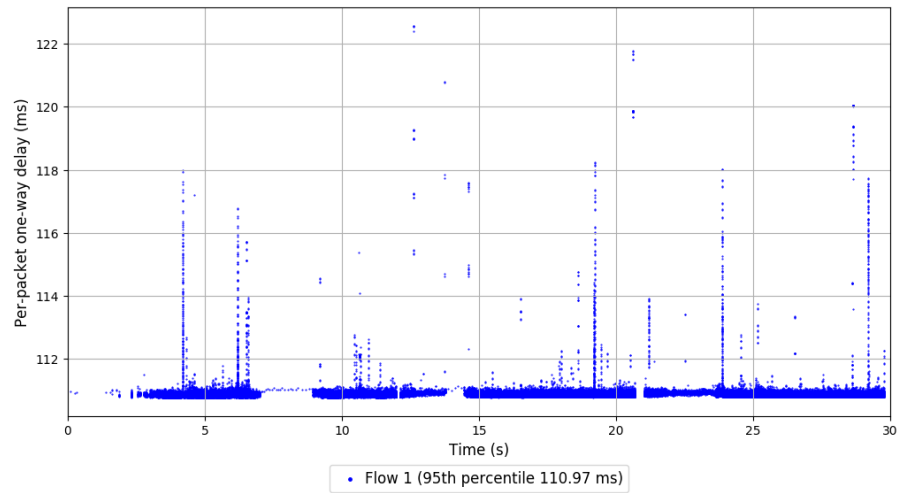
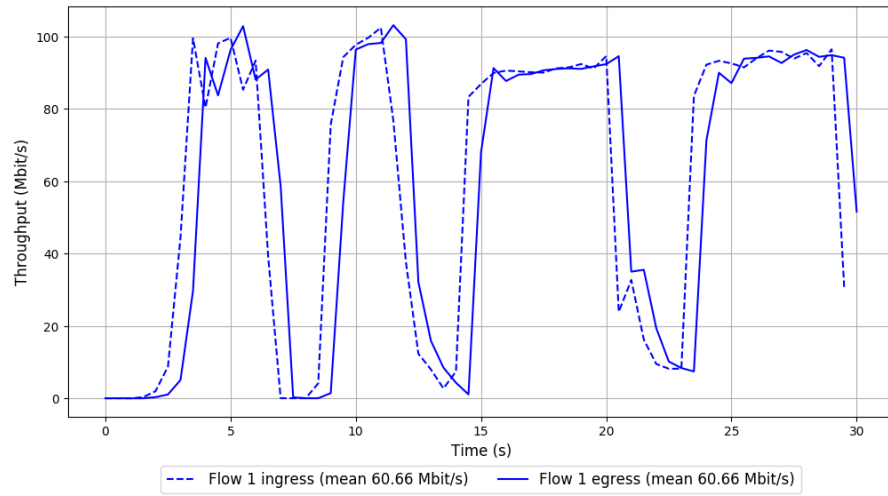
-- Flow 1:

Average throughput: 60.66 Mbit/s

95th percentile per-packet one-way delay: 110.974 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

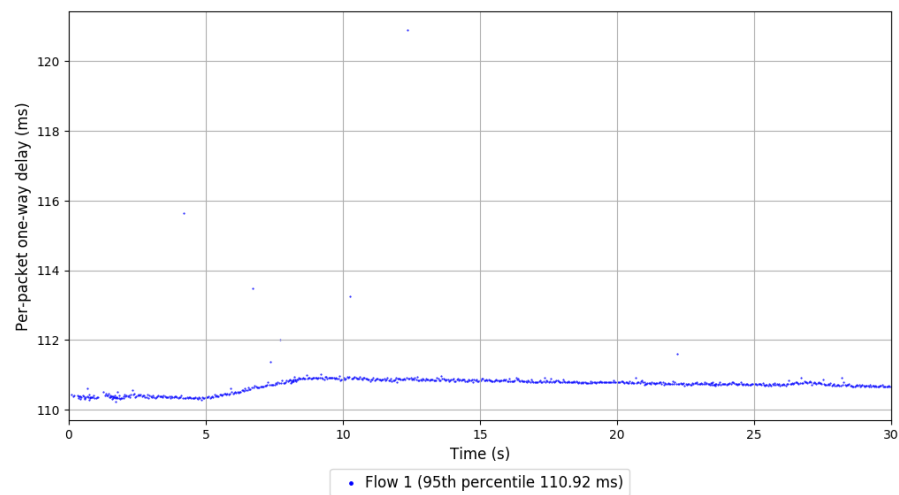
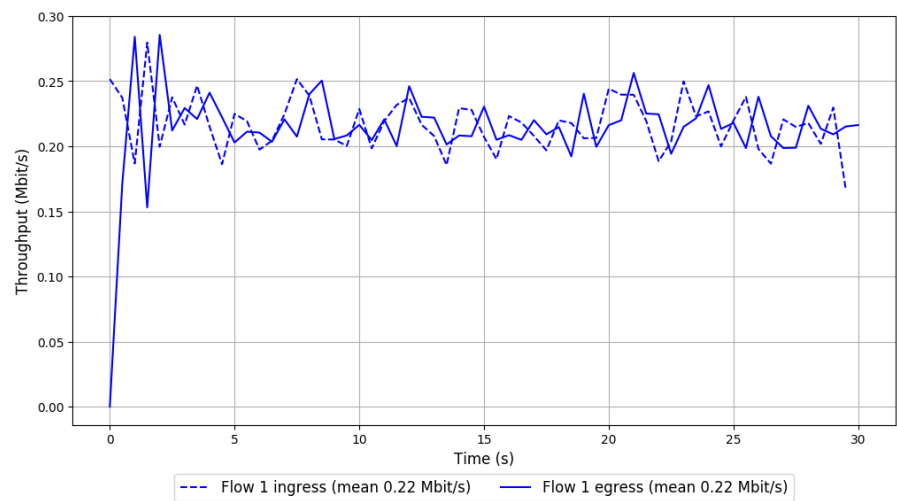


```
Run 1: Statistics of SCReAM

Start at: 2019-03-08 19:43:19
End at: 2019-03-08 19:43:49
Local clock offset: 2.165 ms
Remote clock offset: 3.85 ms

# Below is generated by plot.py at 2019-03-08 23:55:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.916 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.916 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

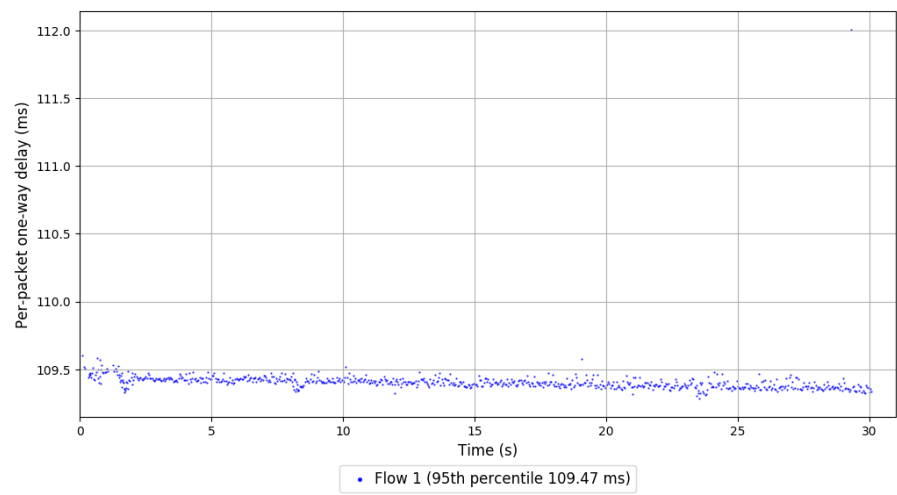
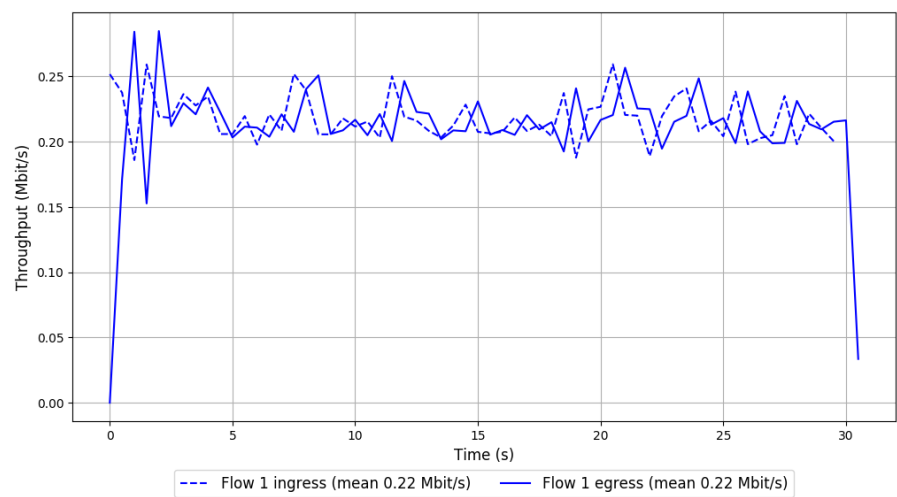


Run 2: Statistics of SCReAM

Start at: 2019-03-08 20:14:45
End at: 2019-03-08 20:15:15
Local clock offset: 9.329 ms
Remote clock offset: 12.627 ms

Below is generated by plot.py at 2019-03-08 23:55:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.471 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.471 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

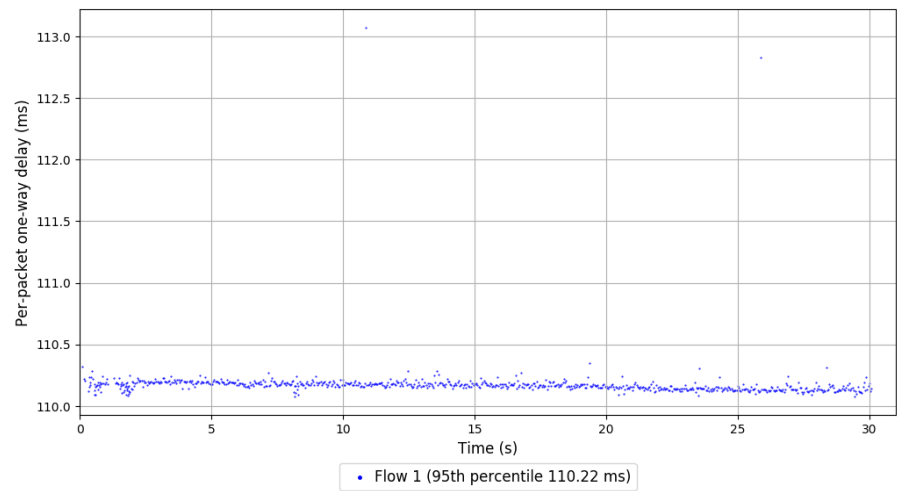
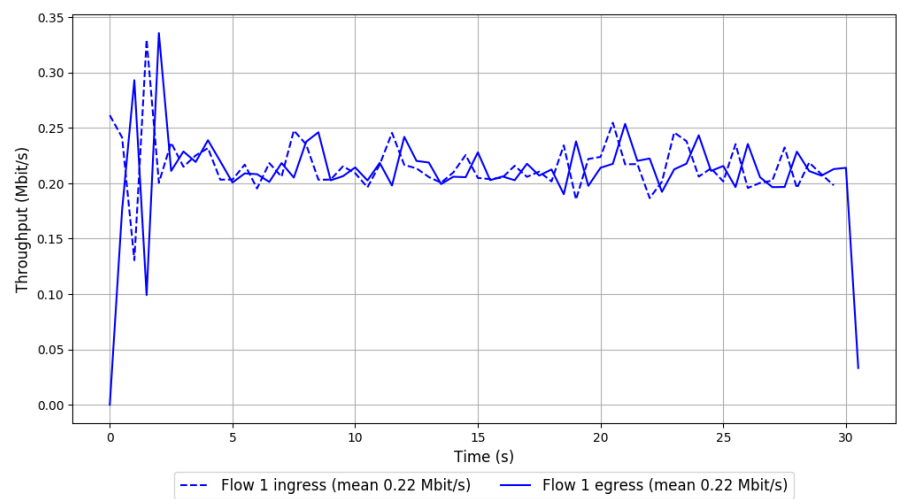


Run 3: Statistics of SCReAM

Start at: 2019-03-08 20:46:21
End at: 2019-03-08 20:46:51
Local clock offset: 14.72 ms
Remote clock offset: 19.816 ms

Below is generated by plot.py at 2019-03-08 23:55:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.220 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.220 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-03-08 21:17:49

End at: 2019-03-08 21:18:19

Local clock offset: 7.205 ms

Remote clock offset: 9.889 ms

Below is generated by plot.py at 2019-03-08 23:55:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.339 ms

Loss rate: 0.00%

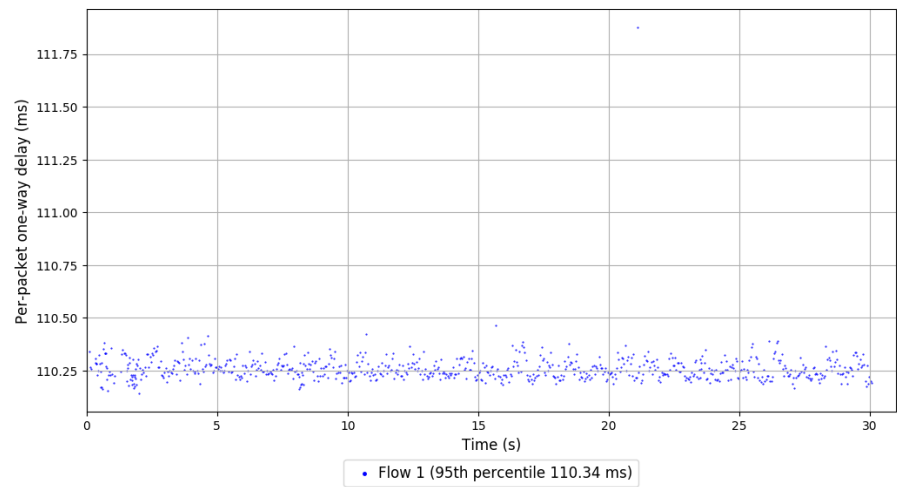
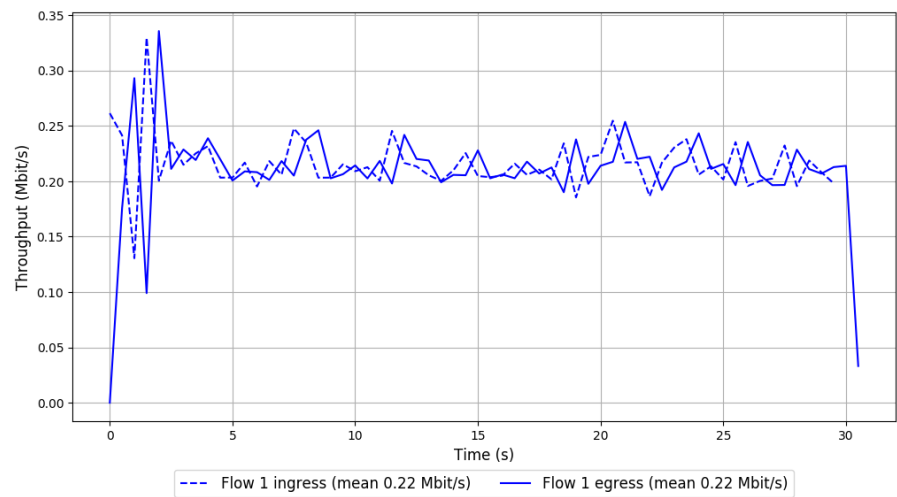
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.339 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-03-08 21:49:35

End at: 2019-03-08 21:50:05

Local clock offset: 3.277 ms

Remote clock offset: 4.437 ms

Below is generated by plot.py at 2019-03-08 23:55:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.358 ms

Loss rate: 0.00%

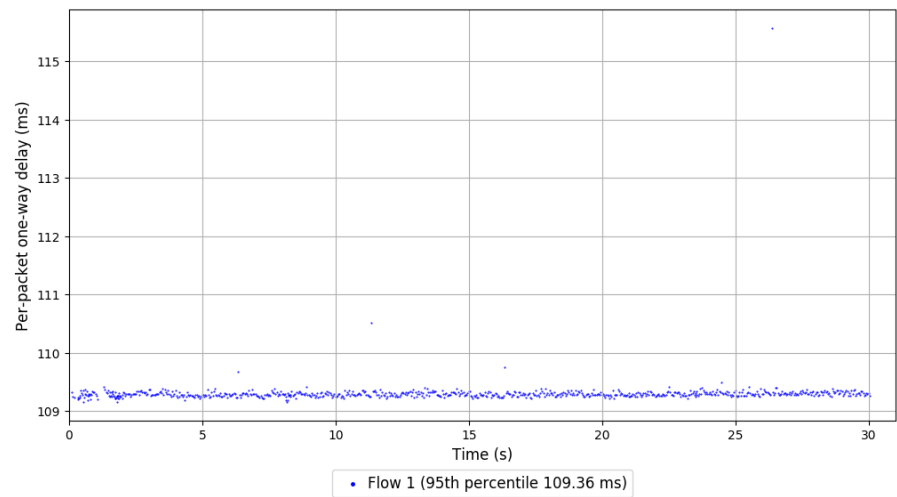
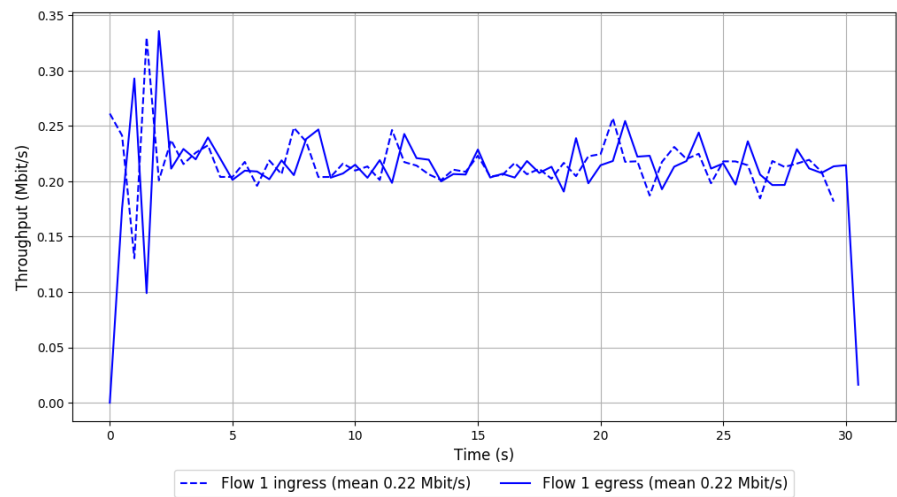
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.358 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-03-08 20:06:42

End at: 2019-03-08 20:07:12

Local clock offset: 6.016 ms

Remote clock offset: 7.9 ms

Below is generated by plot.py at 2019-03-08 23:55:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 110.313 ms

Loss rate: 0.00%

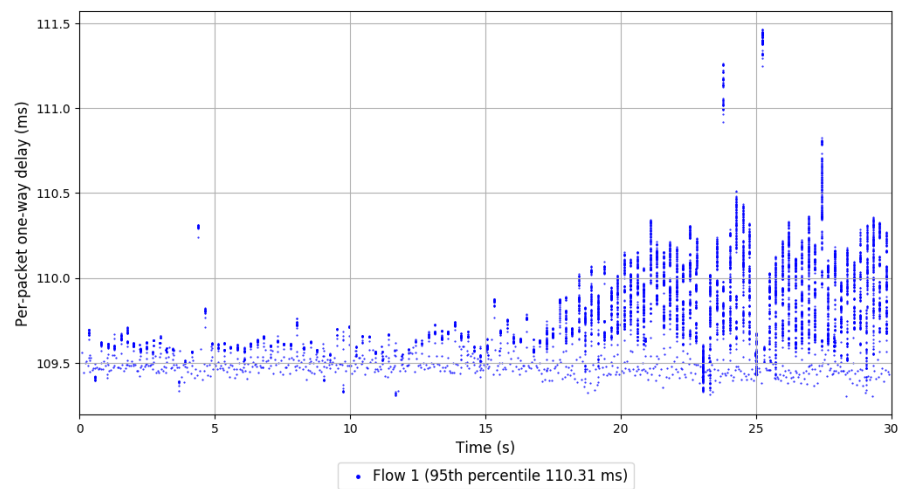
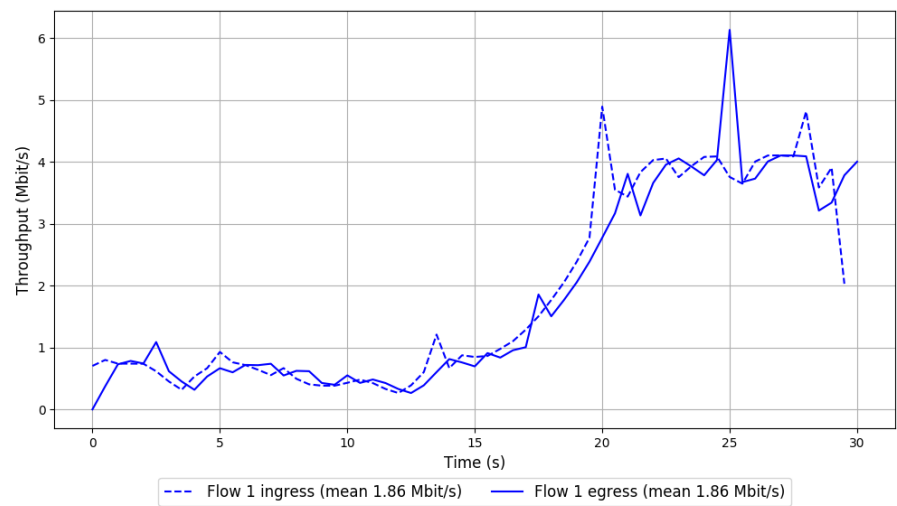
-- Flow 1:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 110.313 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

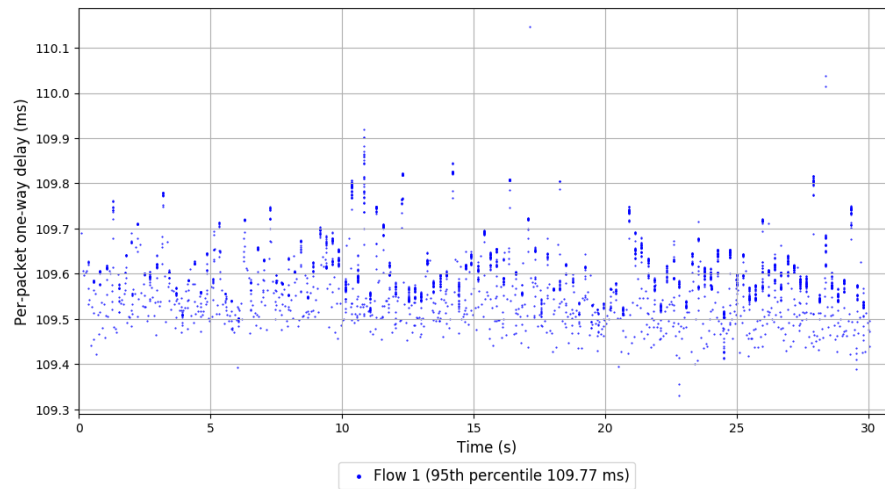
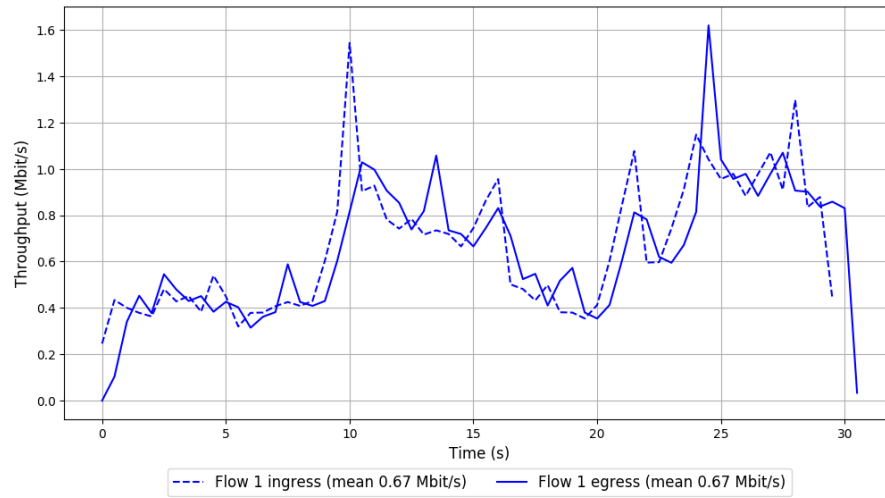


Run 2: Statistics of Sprout

Start at: 2019-03-08 20:38:11
End at: 2019-03-08 20:38:41
Local clock offset: 11.23 ms
Remote clock offset: 15.155 ms

Below is generated by plot.py at 2019-03-08 23:55:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 109.765 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 109.765 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-03-08 21:09:57

End at: 2019-03-08 21:10:27

Local clock offset: 7.02 ms

Remote clock offset: 9.107 ms

Below is generated by plot.py at 2019-03-08 23:55:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 110.769 ms

Loss rate: 0.00%

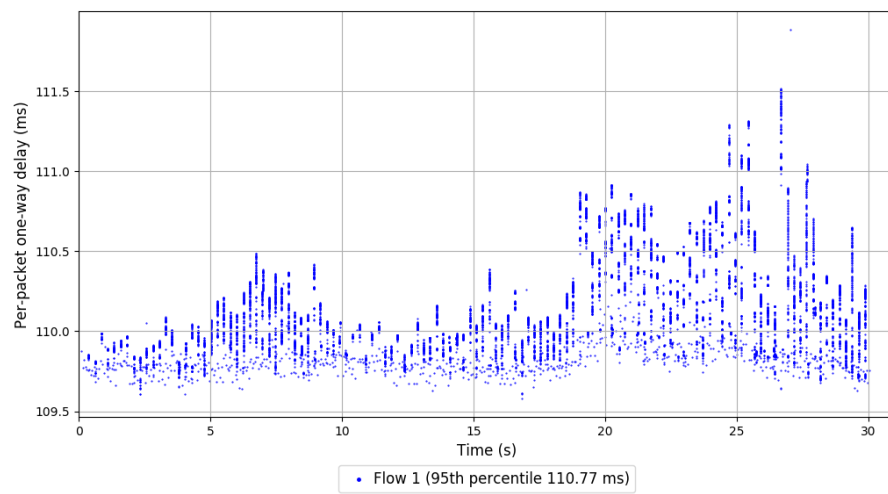
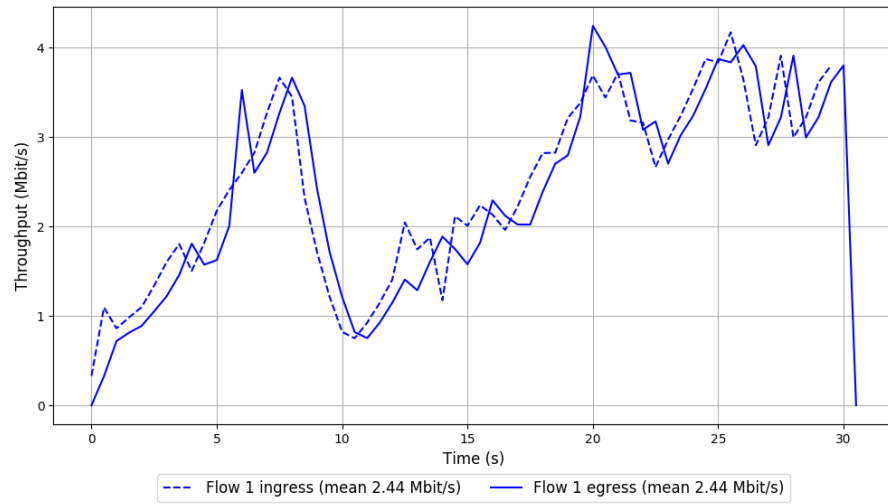
-- Flow 1:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 110.769 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-03-08 21:41:31

End at: 2019-03-08 21:42:01

Local clock offset: 3.397 ms

Remote clock offset: 4.511 ms

Below is generated by plot.py at 2019-03-08 23:55:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.56 Mbit/s

95th percentile per-packet one-way delay: 110.641 ms

Loss rate: 0.00%

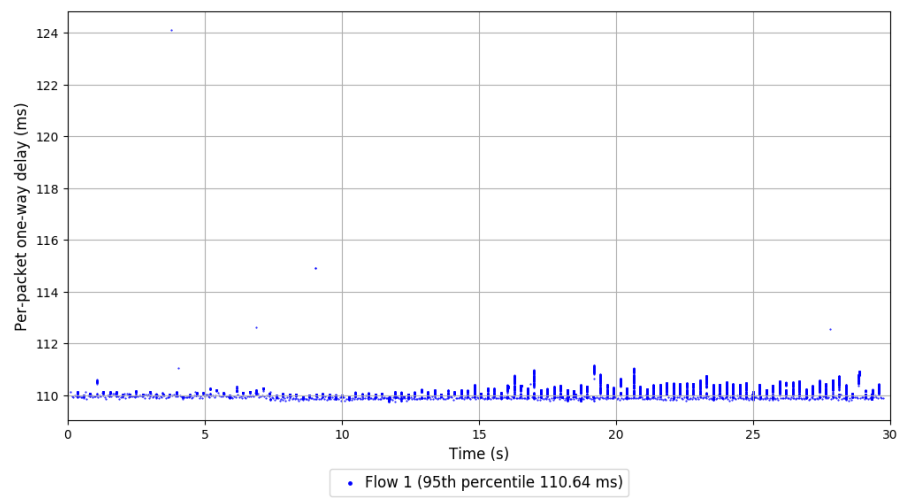
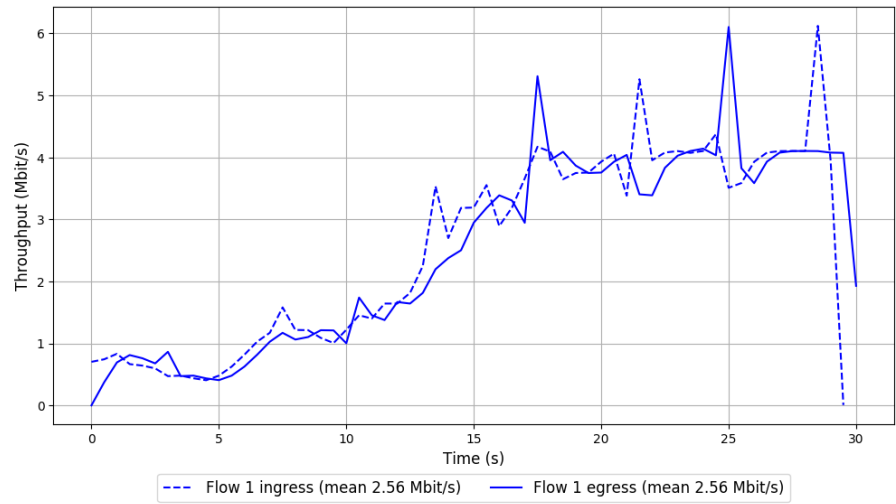
-- Flow 1:

Average throughput: 2.56 Mbit/s

95th percentile per-packet one-way delay: 110.641 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-03-08 22:13:11

End at: 2019-03-08 22:13:42

Local clock offset: 1.722 ms

Remote clock offset: 1.743 ms

Below is generated by plot.py at 2019-03-08 23:55:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.16 Mbit/s

95th percentile per-packet one-way delay: 110.847 ms

Loss rate: 0.00%

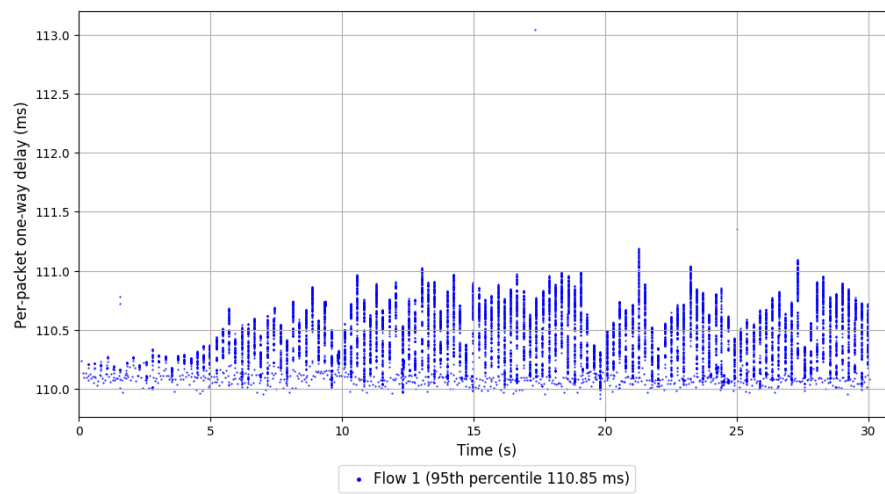
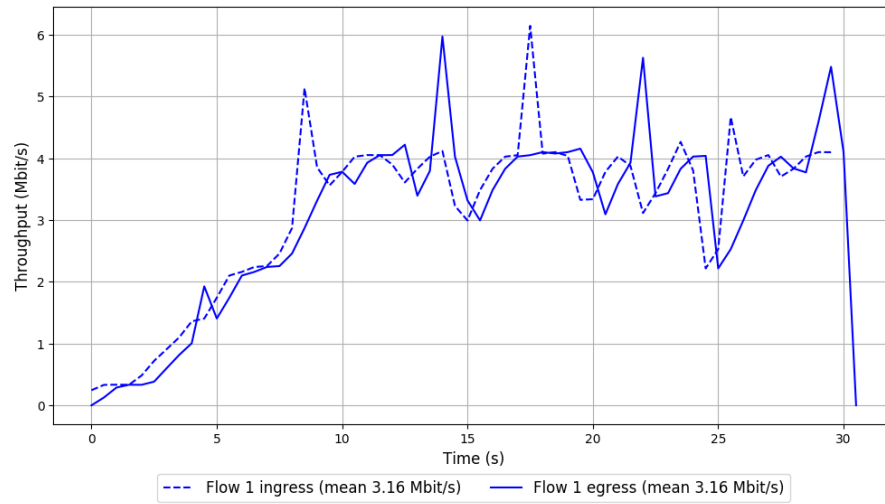
-- Flow 1:

Average throughput: 3.16 Mbit/s

95th percentile per-packet one-way delay: 110.847 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-03-08 19:49:22

End at: 2019-03-08 19:49:52

Local clock offset: -1.384 ms

Remote clock offset: 3.603 ms

Below is generated by plot.py at 2019-03-08 23:56:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.85 Mbit/s

95th percentile per-packet one-way delay: 111.586 ms

Loss rate: 0.00%

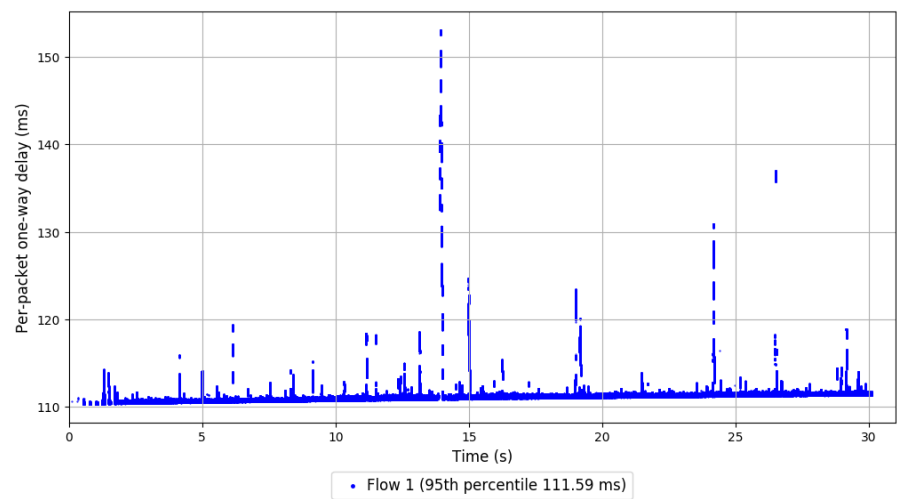
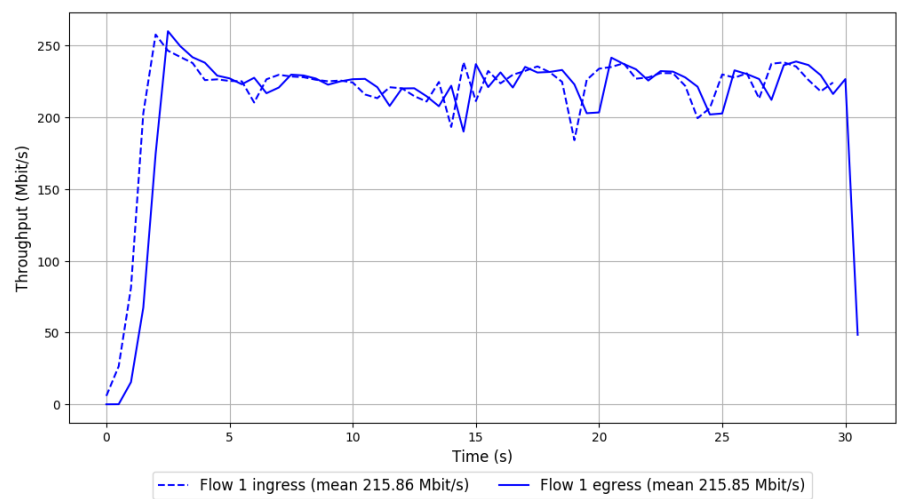
-- Flow 1:

Average throughput: 215.85 Mbit/s

95th percentile per-packet one-way delay: 111.586 ms

Loss rate: 0.00%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-03-08 20:20:53

End at: 2019-03-08 20:21:24

Local clock offset: 10.569 ms

Remote clock offset: 14.015 ms

Below is generated by plot.py at 2019-03-08 23:56:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.51 Mbit/s

95th percentile per-packet one-way delay: 109.512 ms

Loss rate: 0.00%

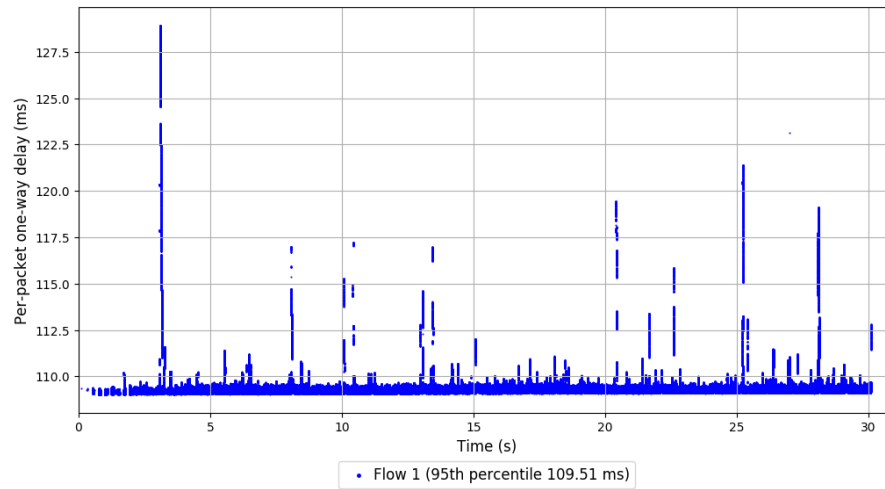
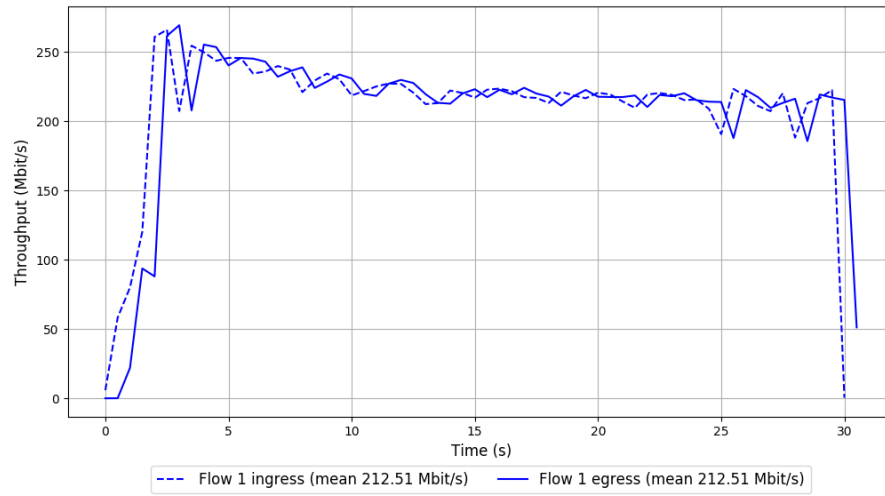
-- Flow 1:

Average throughput: 212.51 Mbit/s

95th percentile per-packet one-way delay: 109.512 ms

Loss rate: 0.00%

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

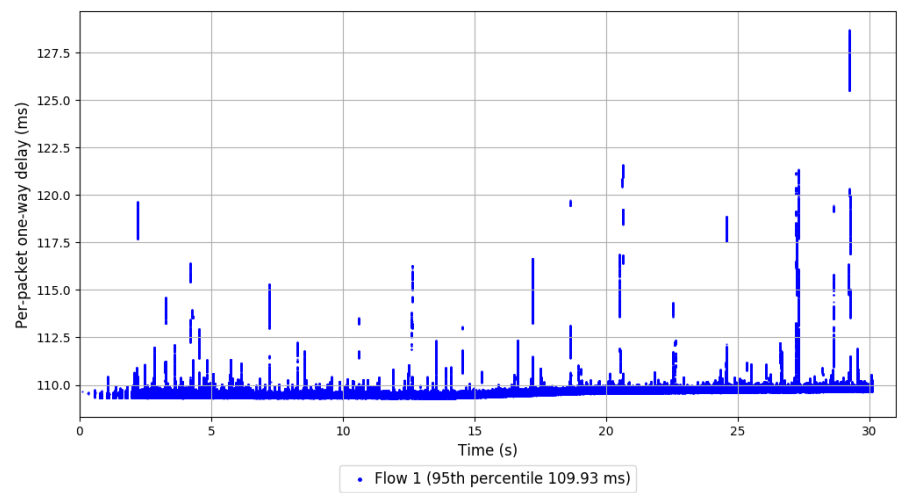
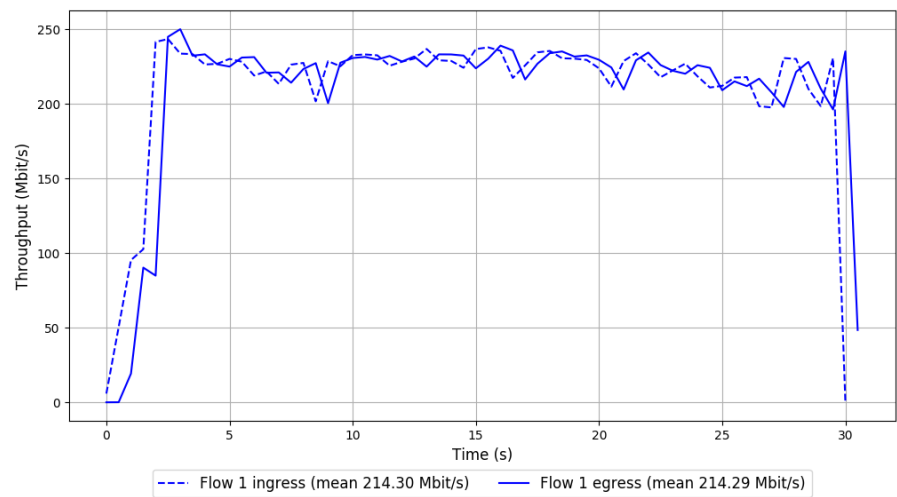


Run 3: Statistics of TaoVA-100x

Start at: 2019-03-08 20:52:29
End at: 2019-03-08 20:52:59
Local clock offset: 17.883 ms
Remote clock offset: 23.849 ms

Below is generated by plot.py at 2019-03-08 23:57:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 214.29 Mbit/s
95th percentile per-packet one-way delay: 109.933 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 214.29 Mbit/s
95th percentile per-packet one-way delay: 109.933 ms
Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-03-08 21:23:58

End at: 2019-03-08 21:24:28

Local clock offset: 7.985 ms

Remote clock offset: 11.345 ms

Below is generated by plot.py at 2019-03-08 23:57:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.21 Mbit/s

95th percentile per-packet one-way delay: 112.269 ms

Loss rate: 0.00%

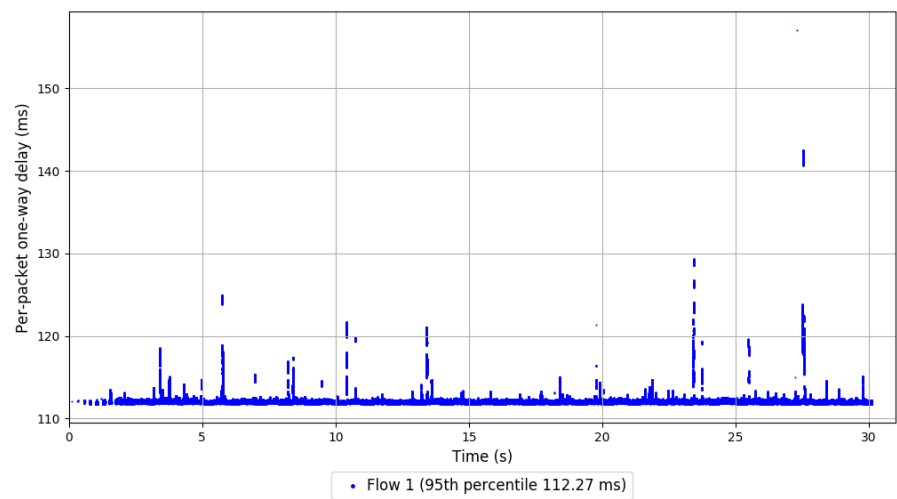
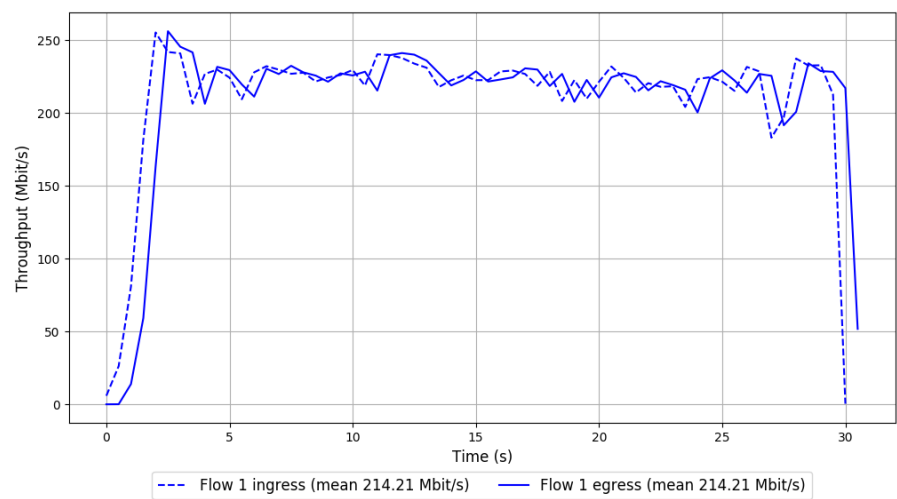
-- Flow 1:

Average throughput: 214.21 Mbit/s

95th percentile per-packet one-way delay: 112.269 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-03-08 21:55:38

End at: 2019-03-08 21:56:08

Local clock offset: 3.285 ms

Remote clock offset: 5.01 ms

Below is generated by plot.py at 2019-03-08 23:57:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.82 Mbit/s

95th percentile per-packet one-way delay: 113.198 ms

Loss rate: 0.01%

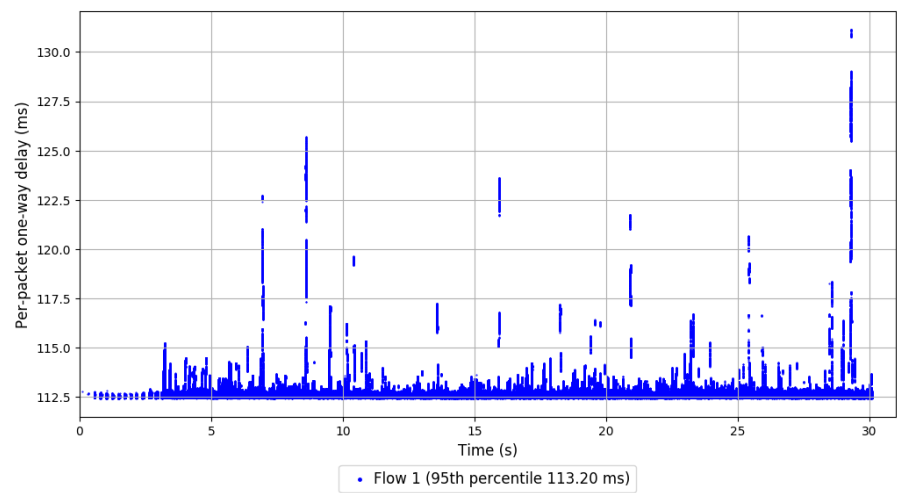
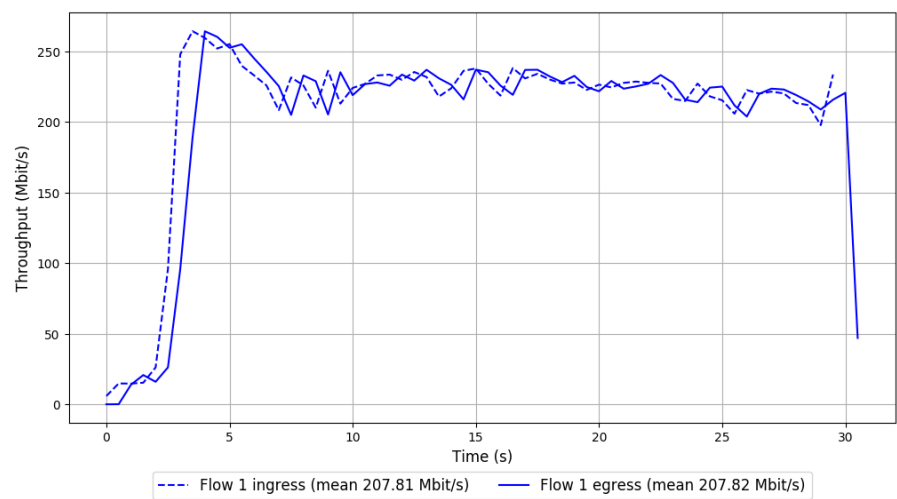
-- Flow 1:

Average throughput: 207.82 Mbit/s

95th percentile per-packet one-way delay: 113.198 ms

Loss rate: 0.01%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-03-08 19:58:51

End at: 2019-03-08 19:59:21

Local clock offset: 5.532 ms

Remote clock offset: 7.022 ms

Below is generated by plot.py at 2019-03-08 23:57:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 265.43 Mbit/s

95th percentile per-packet one-way delay: 120.638 ms

Loss rate: 0.00%

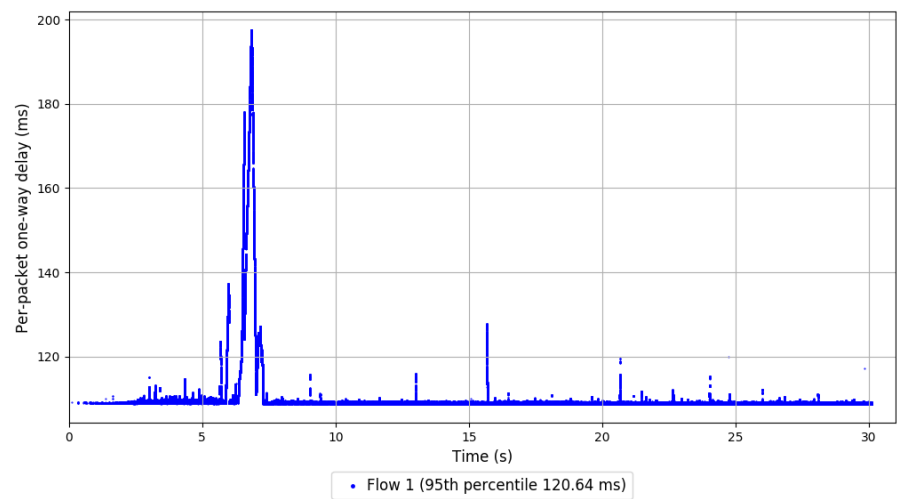
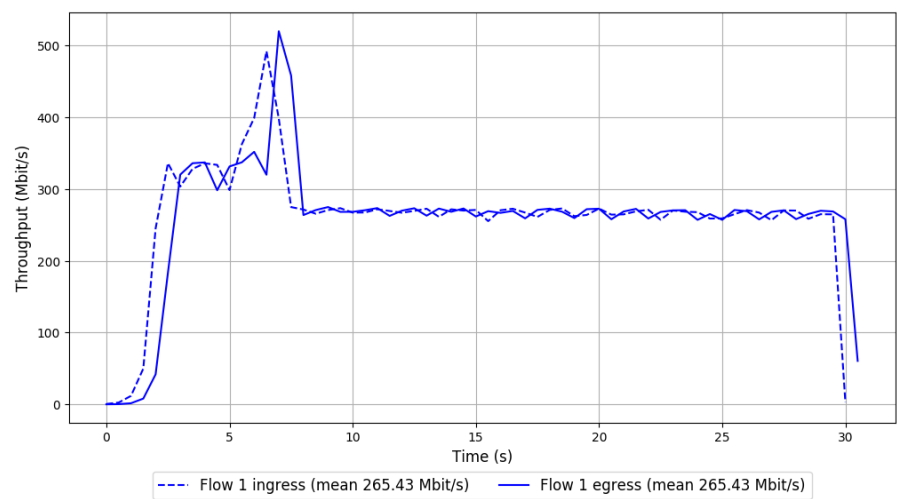
-- Flow 1:

Average throughput: 265.43 Mbit/s

95th percentile per-packet one-way delay: 120.638 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link

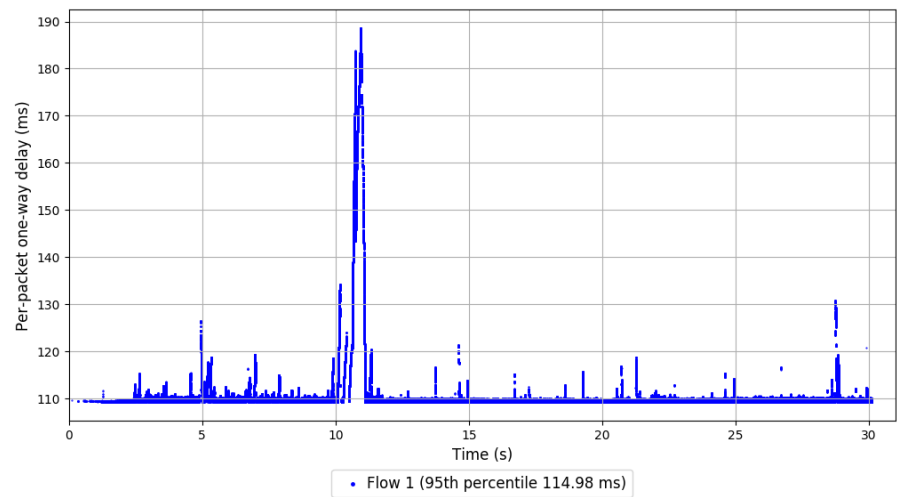
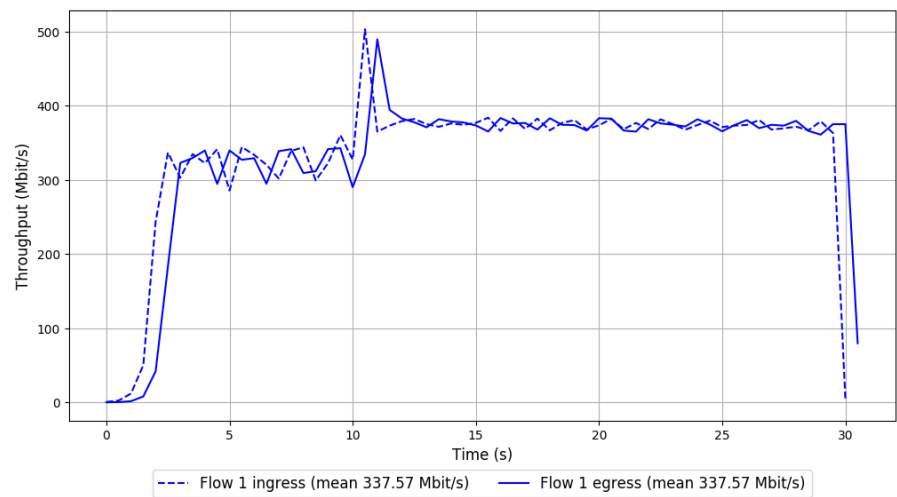


Run 2: Statistics of TCP Vegas

Start at: 2019-03-08 20:30:25
End at: 2019-03-08 20:30:55
Local clock offset: 8.956 ms
Remote clock offset: 12.134 ms

Below is generated by plot.py at 2019-03-09 00:00:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 337.57 Mbit/s
95th percentile per-packet one-way delay: 114.976 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 337.57 Mbit/s
95th percentile per-packet one-way delay: 114.976 ms
Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link

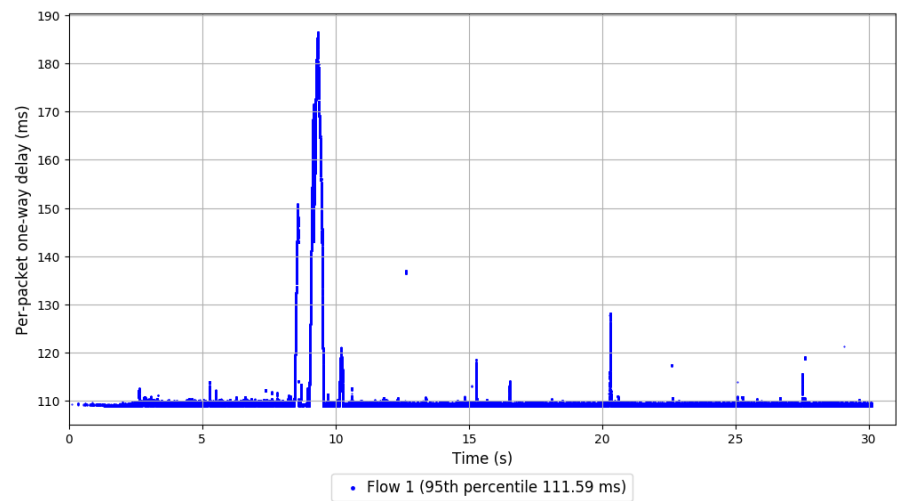
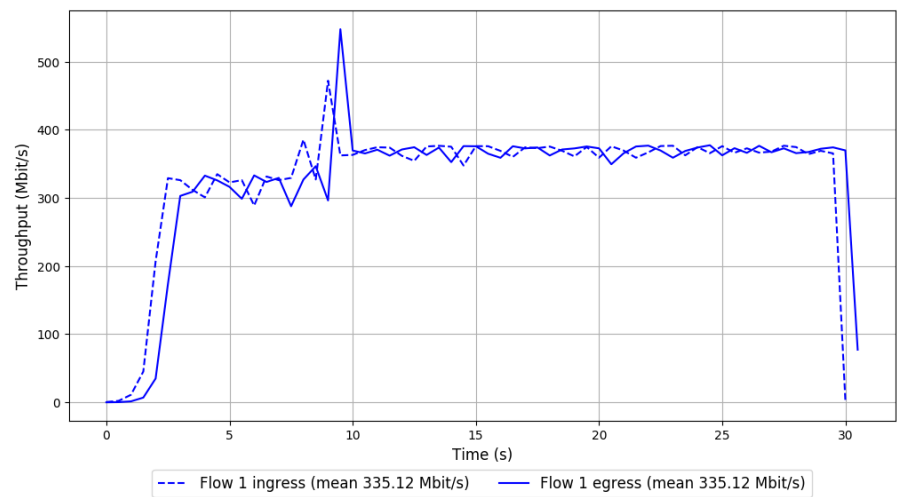


Run 3: Statistics of TCP Vegas

Start at: 2019-03-08 21:02:01
End at: 2019-03-08 21:02:31
Local clock offset: 9.235 ms
Remote clock offset: 10.973 ms

Below is generated by plot.py at 2019-03-09 00:01:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 335.12 Mbit/s
95th percentile per-packet one-way delay: 111.587 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 335.12 Mbit/s
95th percentile per-packet one-way delay: 111.587 ms
Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link

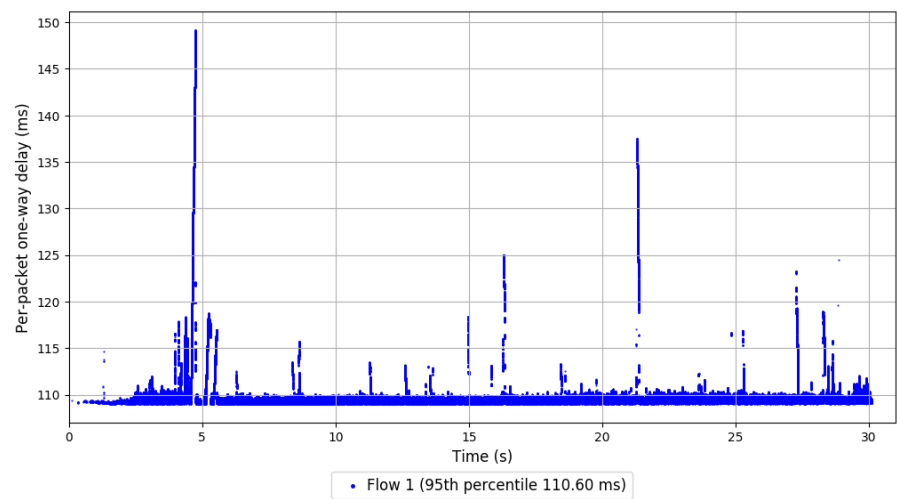
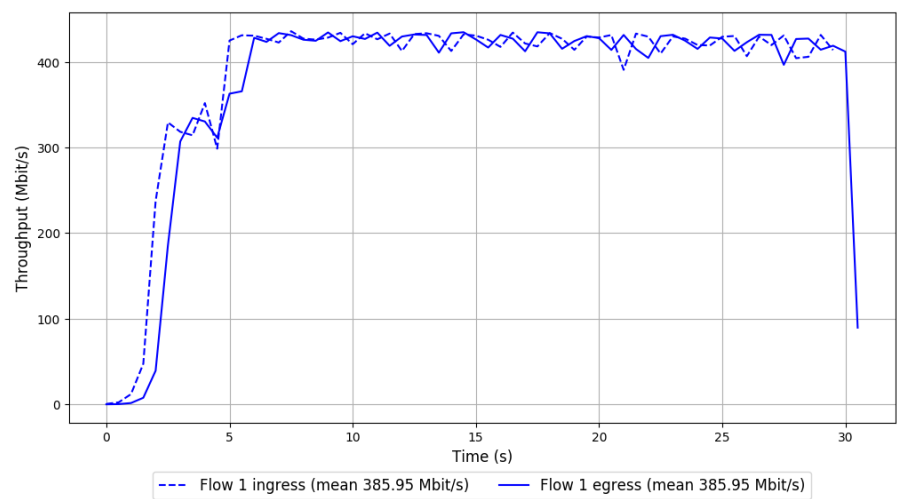


Run 4: Statistics of TCP Vegas

Start at: 2019-03-08 21:33:30
End at: 2019-03-08 21:34:00
Local clock offset: 5.221 ms
Remote clock offset: 6.307 ms

Below is generated by plot.py at 2019-03-09 00:03:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 385.95 Mbit/s
95th percentile per-packet one-way delay: 110.600 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 385.95 Mbit/s
95th percentile per-packet one-way delay: 110.600 ms
Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-03-08 22:05:10

End at: 2019-03-08 22:05:40

Local clock offset: 3.394 ms

Remote clock offset: 3.693 ms

Below is generated by plot.py at 2019-03-09 00:03:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 409.21 Mbit/s

95th percentile per-packet one-way delay: 117.927 ms

Loss rate: 0.00%

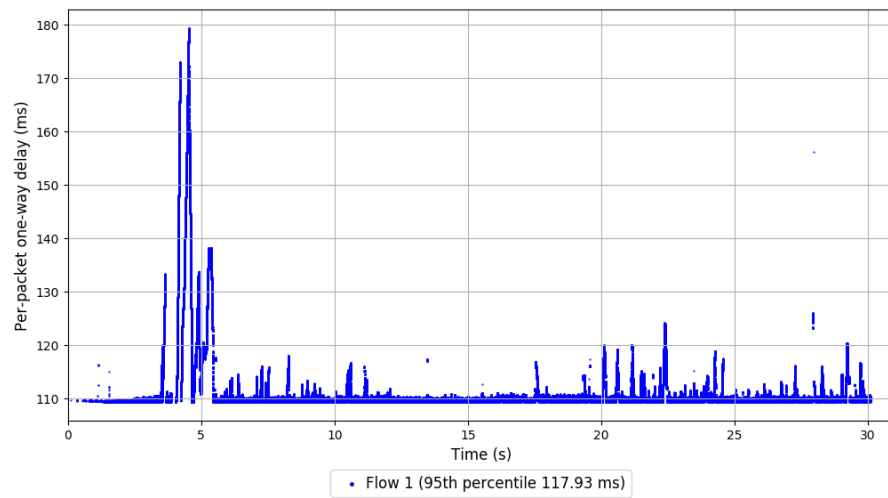
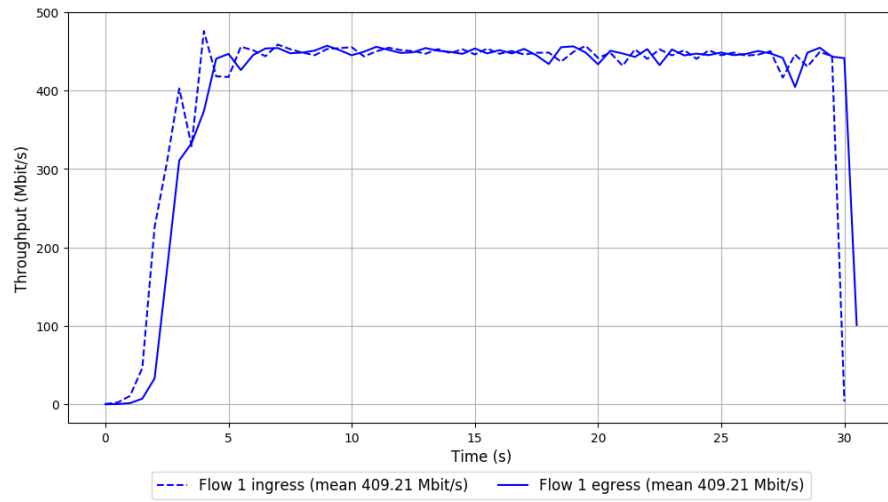
-- Flow 1:

Average throughput: 409.21 Mbit/s

95th percentile per-packet one-way delay: 117.927 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-03-08 20:13:22

End at: 2019-03-08 20:13:52

Local clock offset: 8.266 ms

Remote clock offset: 11.57 ms

Below is generated by plot.py at 2019-03-09 00:03:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 120.96 Mbit/s

95th percentile per-packet one-way delay: 199.877 ms

Loss rate: 0.25%

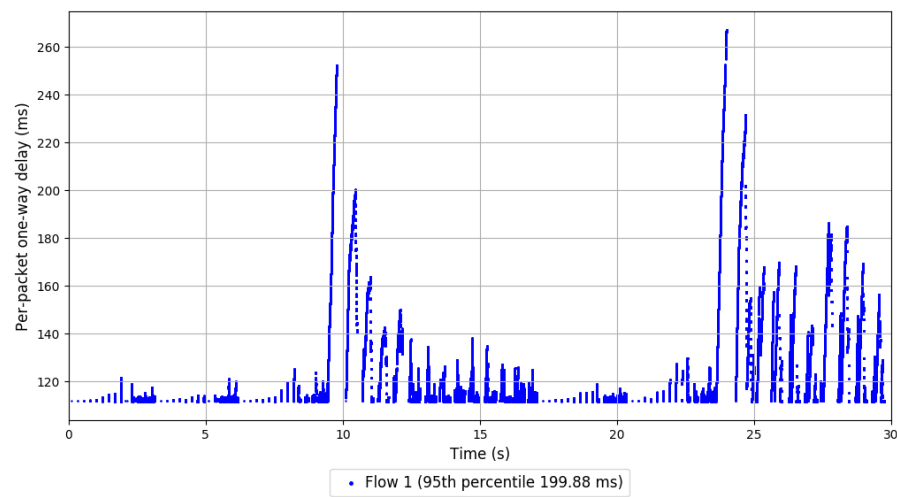
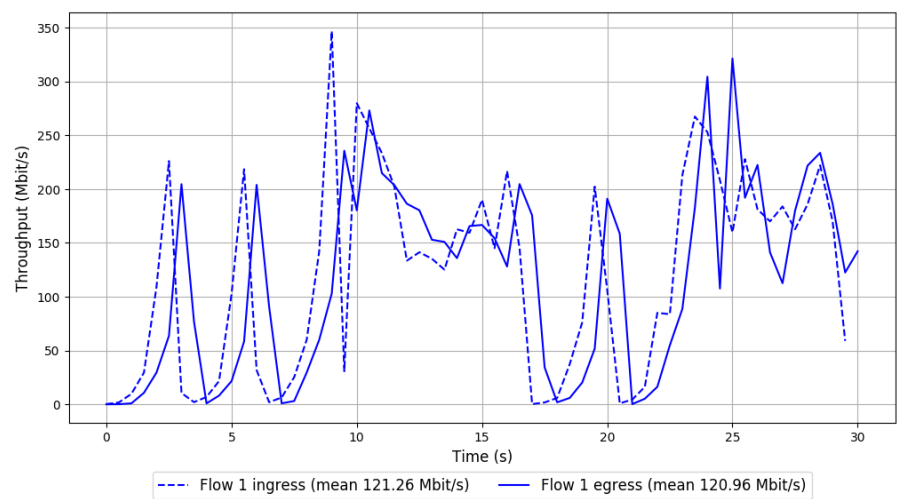
-- Flow 1:

Average throughput: 120.96 Mbit/s

95th percentile per-packet one-way delay: 199.877 ms

Loss rate: 0.25%

Run 1: Report of Verus — Data Link

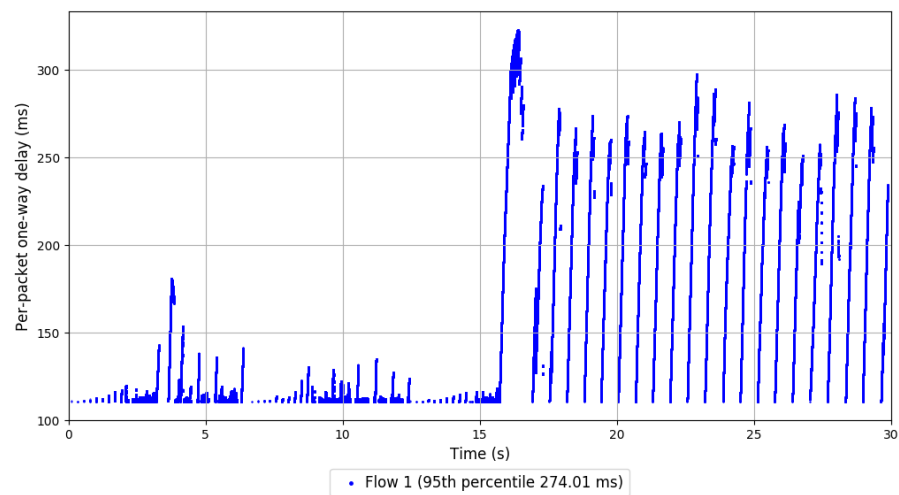
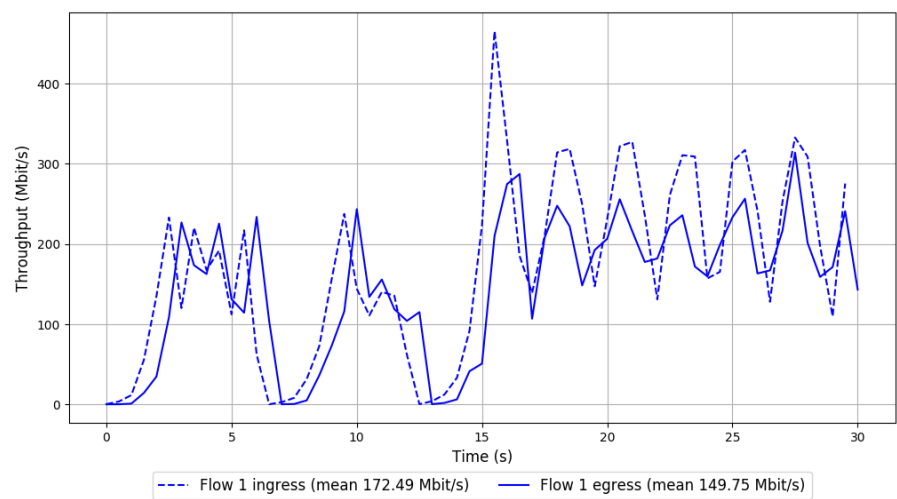


Run 2: Statistics of Verus

Start at: 2019-03-08 20:44:55
End at: 2019-03-08 20:45:25
Local clock offset: 13.193 ms
Remote clock offset: 18.868 ms

Below is generated by plot.py at 2019-03-09 00:03:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 149.75 Mbit/s
95th percentile per-packet one-way delay: 274.007 ms
Loss rate: 13.14%
-- Flow 1:
Average throughput: 149.75 Mbit/s
95th percentile per-packet one-way delay: 274.007 ms
Loss rate: 13.14%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-03-08 21:16:32

End at: 2019-03-08 21:17:02

Local clock offset: 6.539 ms

Remote clock offset: 9.706 ms

Below is generated by plot.py at 2019-03-09 00:03:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.88 Mbit/s

95th percentile per-packet one-way delay: 260.365 ms

Loss rate: 3.78%

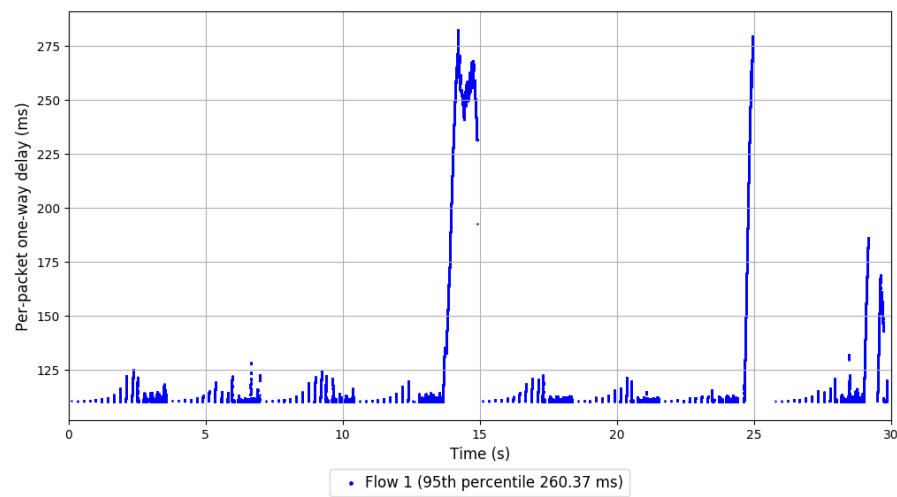
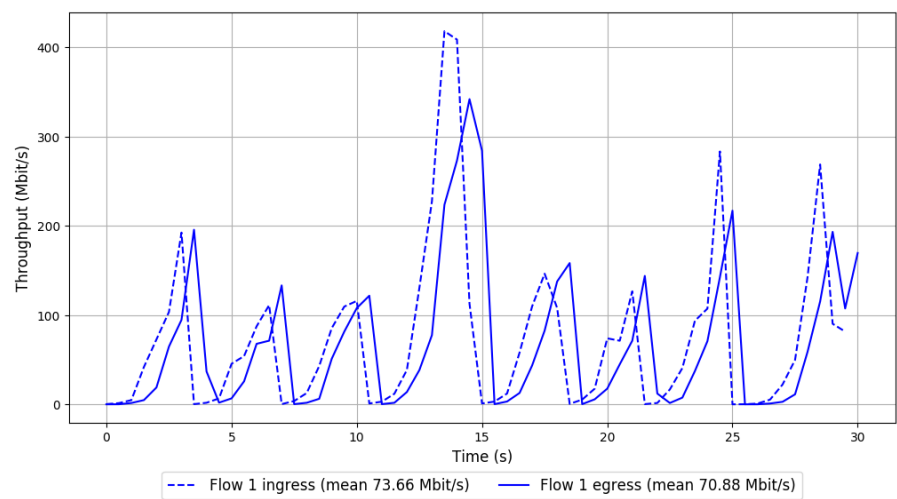
-- Flow 1:

Average throughput: 70.88 Mbit/s

95th percentile per-packet one-way delay: 260.365 ms

Loss rate: 3.78%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-03-08 21:48:08

End at: 2019-03-08 21:48:38

Local clock offset: 3.276 ms

Remote clock offset: 4.382 ms

Below is generated by plot.py at 2019-03-09 00:03:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.52 Mbit/s

95th percentile per-packet one-way delay: 266.655 ms

Loss rate: 2.62%

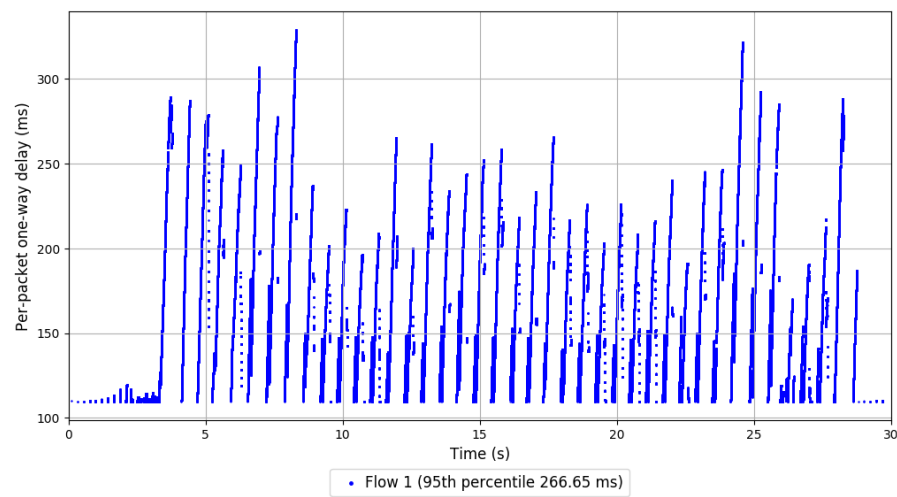
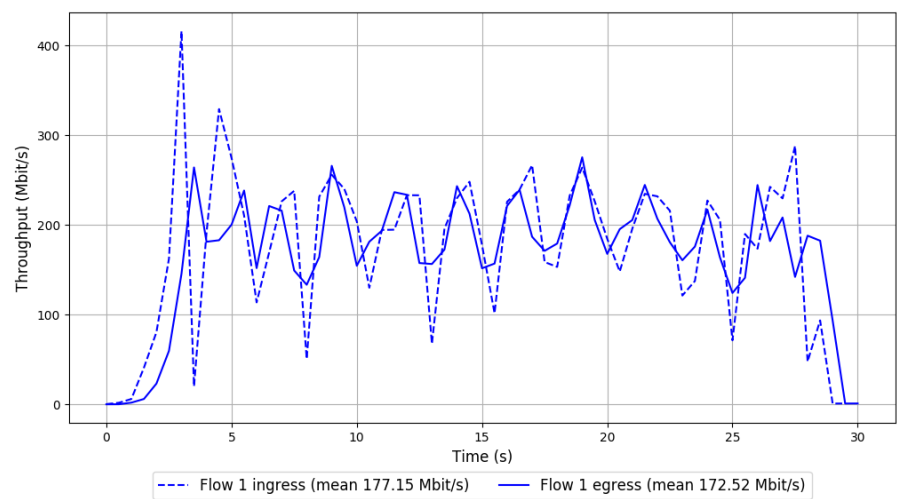
-- Flow 1:

Average throughput: 172.52 Mbit/s

95th percentile per-packet one-way delay: 266.655 ms

Loss rate: 2.62%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-03-08 22:19:53

End at: 2019-03-08 22:20:23

Local clock offset: 1.43 ms

Remote clock offset: 1.641 ms

Below is generated by plot.py at 2019-03-09 00:05:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.28 Mbit/s

95th percentile per-packet one-way delay: 286.324 ms

Loss rate: 17.05%

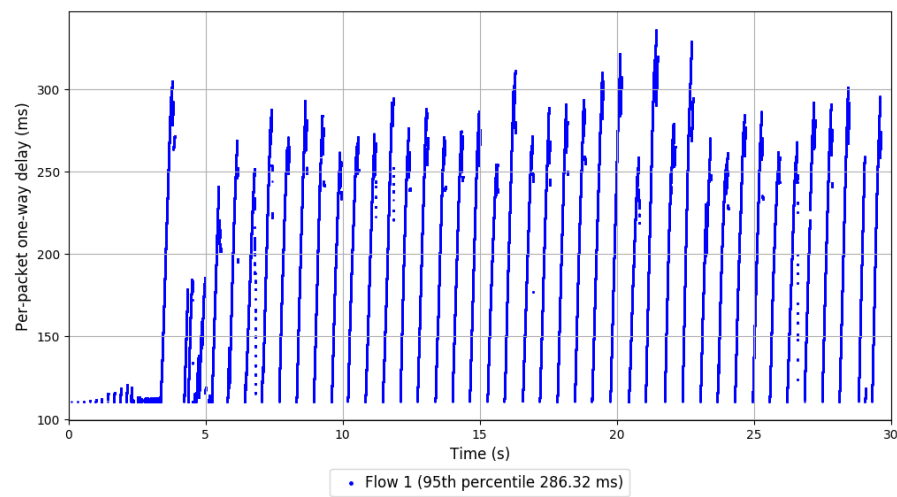
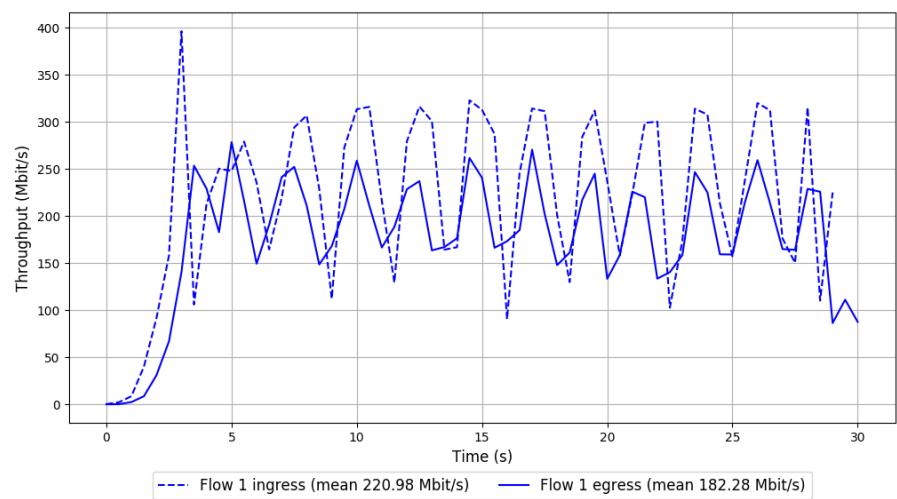
-- Flow 1:

Average throughput: 182.28 Mbit/s

95th percentile per-packet one-way delay: 286.324 ms

Loss rate: 17.05%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-03-08 20:05:09

End at: 2019-03-08 20:05:39

Local clock offset: 6.04 ms

Remote clock offset: 7.899 ms

Below is generated by plot.py at 2019-03-09 00:05:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 319.57 Mbit/s

95th percentile per-packet one-way delay: 126.761 ms

Loss rate: 0.05%

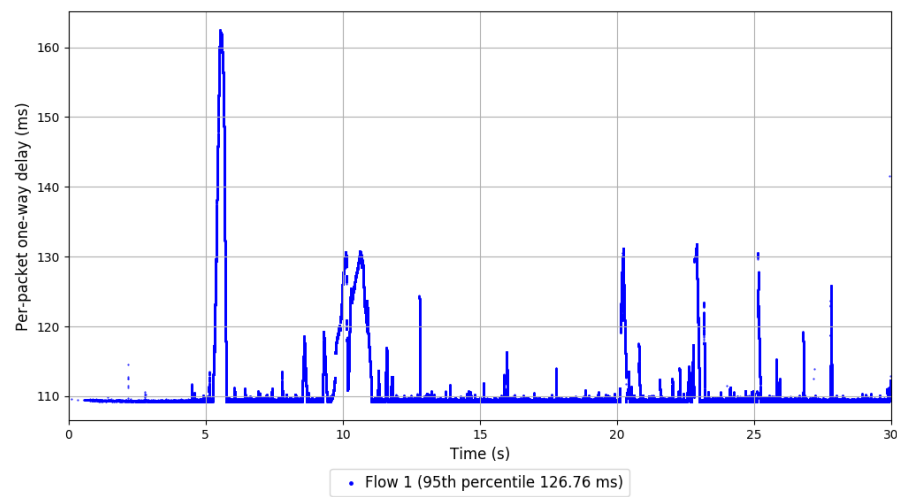
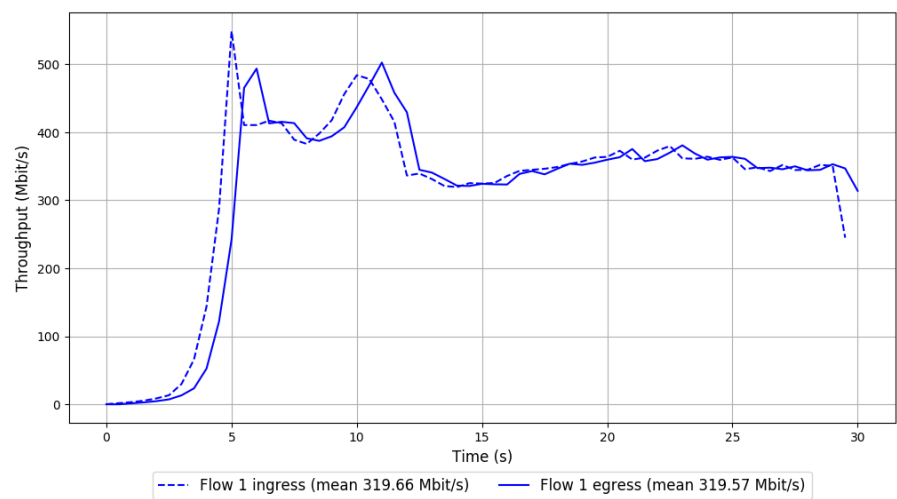
-- Flow 1:

Average throughput: 319.57 Mbit/s

95th percentile per-packet one-way delay: 126.761 ms

Loss rate: 0.05%

Run 1: Report of PCC-Vivace — Data Link

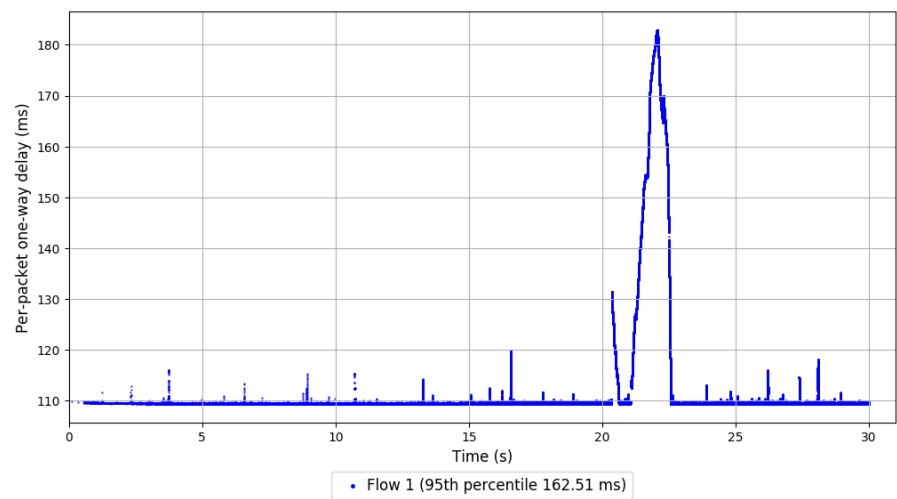
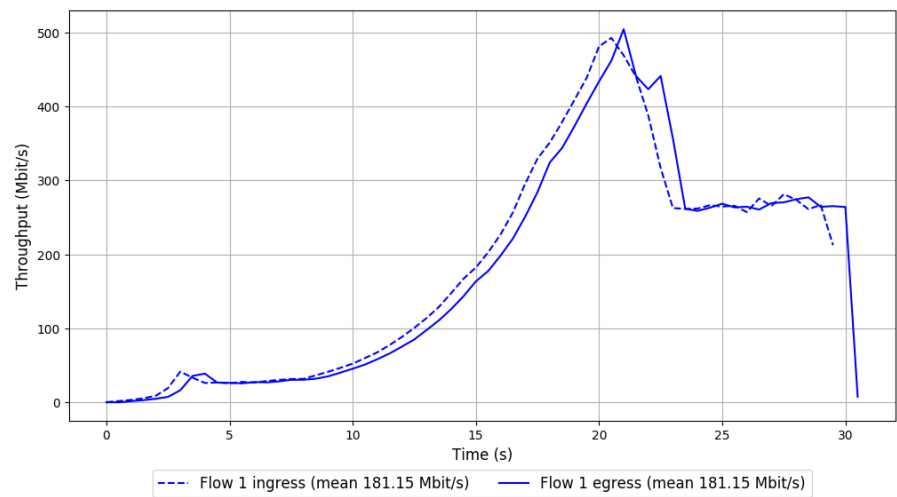


Run 2: Statistics of PCC-Vivace

Start at: 2019-03-08 20:36:48
End at: 2019-03-08 20:37:18
Local clock offset: 10.627 ms
Remote clock offset: 14.411 ms

Below is generated by plot.py at 2019-03-09 00:05:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 181.15 Mbit/s
95th percentile per-packet one-way delay: 162.514 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 181.15 Mbit/s
95th percentile per-packet one-way delay: 162.514 ms
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-03-08 21:08:25

End at: 2019-03-08 21:08:55

Local clock offset: 6.737 ms

Remote clock offset: 9.261 ms

Below is generated by plot.py at 2019-03-09 00:05:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 286.22 Mbit/s

95th percentile per-packet one-way delay: 128.015 ms

Loss rate: 0.00%

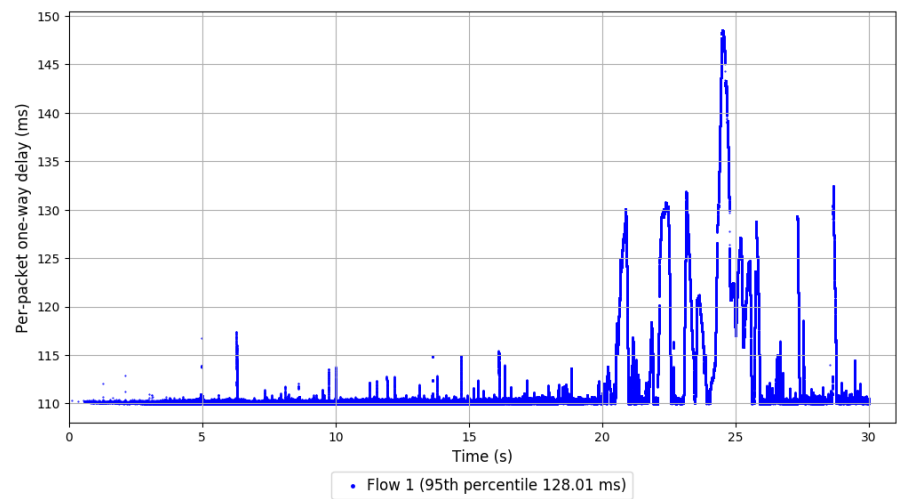
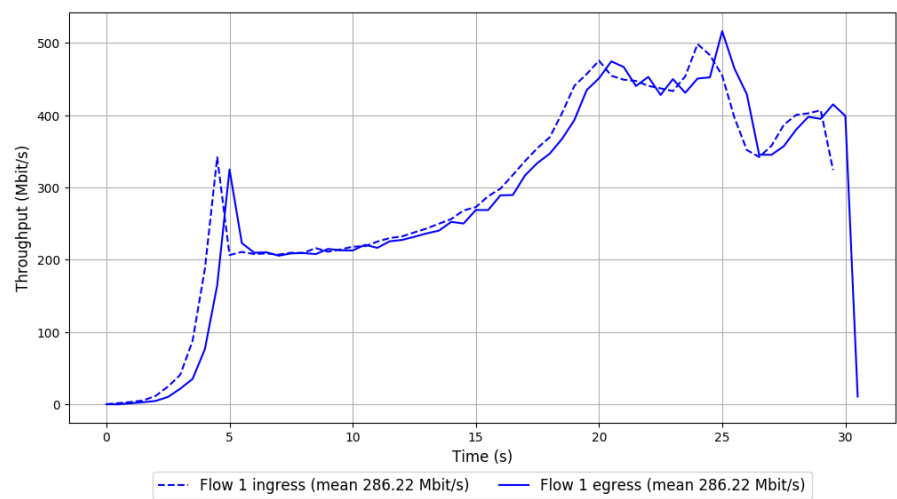
-- Flow 1:

Average throughput: 286.22 Mbit/s

95th percentile per-packet one-way delay: 128.015 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-03-08 21:39:56

End at: 2019-03-08 21:40:26

Local clock offset: 3.617 ms

Remote clock offset: 4.715 ms

Below is generated by plot.py at 2019-03-09 00:06:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 326.78 Mbit/s

95th percentile per-packet one-way delay: 115.176 ms

Loss rate: 0.00%

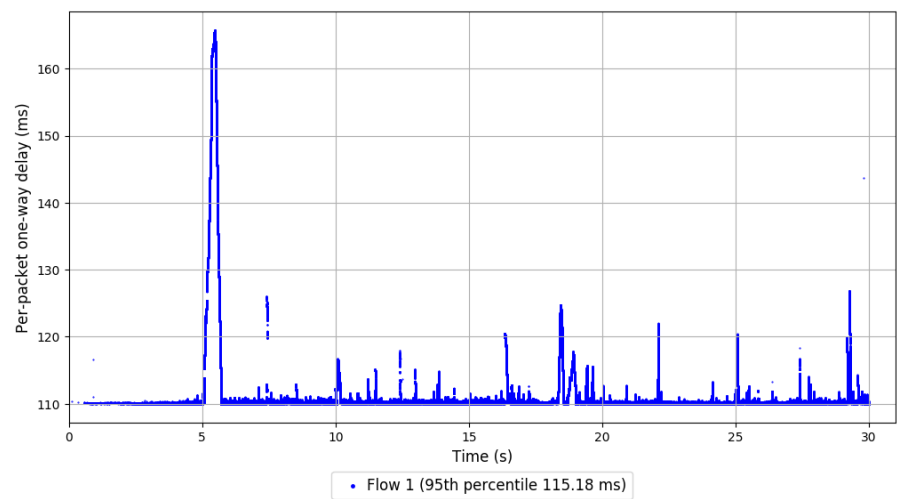
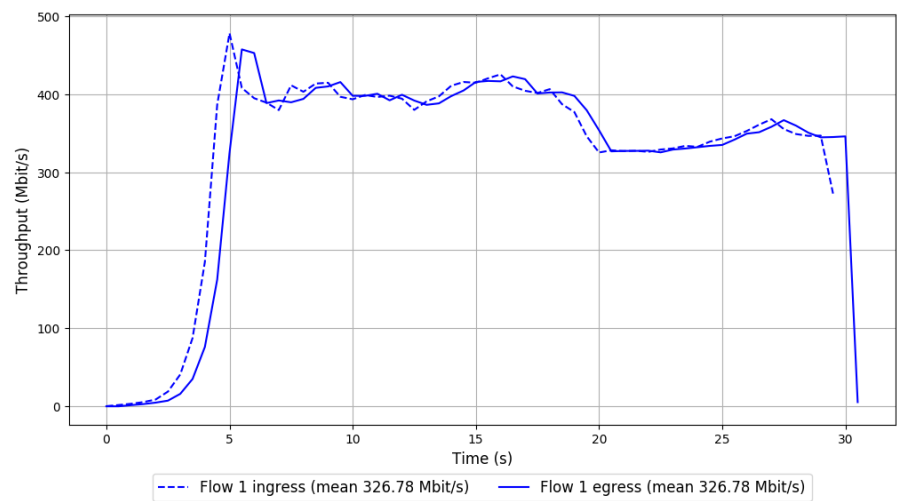
-- Flow 1:

Average throughput: 326.78 Mbit/s

95th percentile per-packet one-way delay: 115.176 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-03-08 22:11:36

End at: 2019-03-08 22:12:06

Local clock offset: 1.671 ms

Remote clock offset: 2.031 ms

Below is generated by plot.py at 2019-03-09 00:06:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 325.21 Mbit/s

95th percentile per-packet one-way delay: 154.299 ms

Loss rate: 0.25%

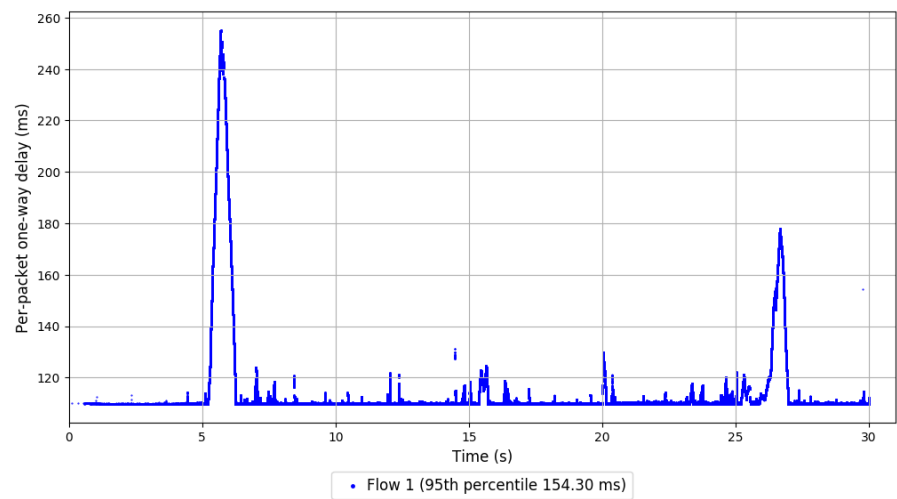
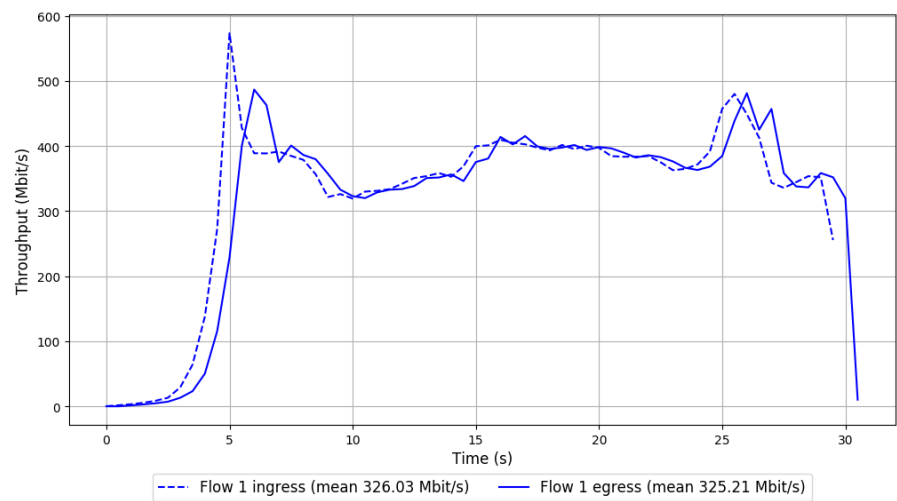
-- Flow 1:

Average throughput: 325.21 Mbit/s

95th percentile per-packet one-way delay: 154.299 ms

Loss rate: 0.25%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-03-08 20:10:36

End at: 2019-03-08 20:11:06

Local clock offset: 6.86 ms

Remote clock offset: 9.595 ms

Below is generated by plot.py at 2019-03-09 00:06:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 109.709 ms

Loss rate: 0.00%

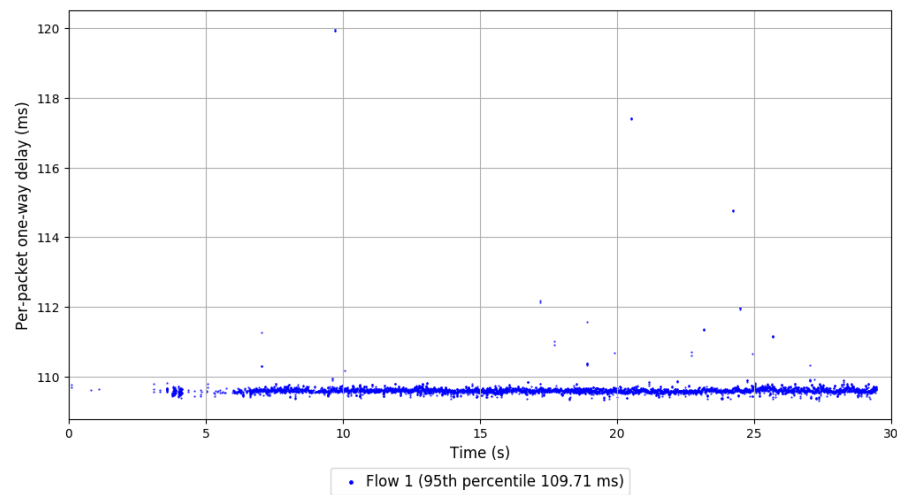
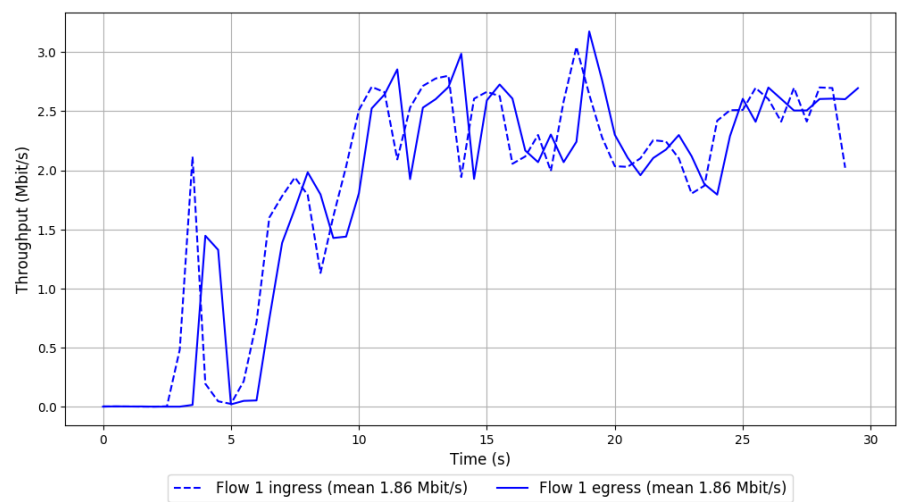
-- Flow 1:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 109.709 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

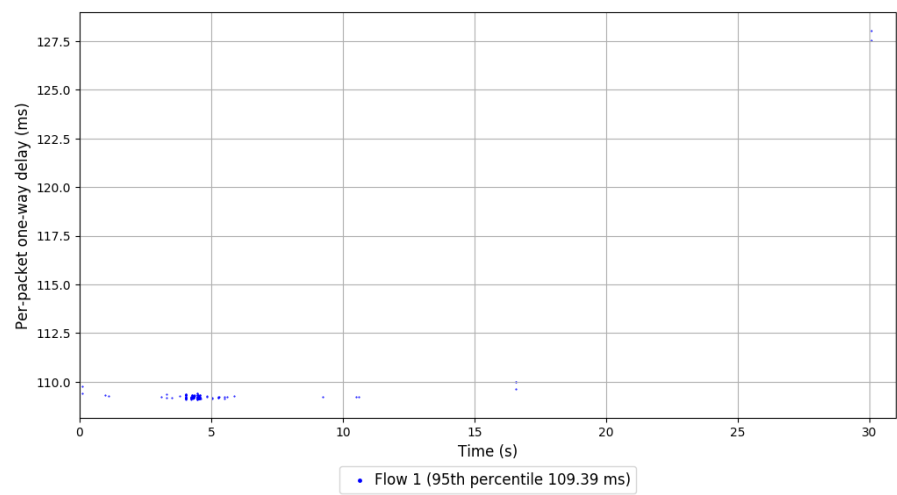
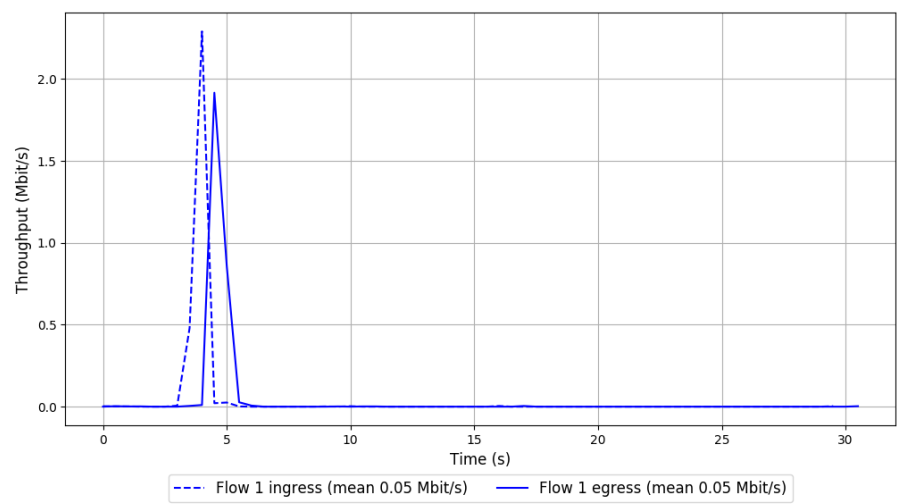


Run 2: Statistics of WebRTC media

Start at: 2019-03-08 20:42:07
End at: 2019-03-08 20:42:37
Local clock offset: 12.672 ms
Remote clock offset: 17.225 ms

Below is generated by plot.py at 2019-03-09 00:06:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.392 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.392 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-03-08 21:13:47

End at: 2019-03-08 21:14:17

Local clock offset: 6.912 ms

Remote clock offset: 9.299 ms

Below is generated by plot.py at 2019-03-09 00:06:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 110.123 ms

Loss rate: 0.00%

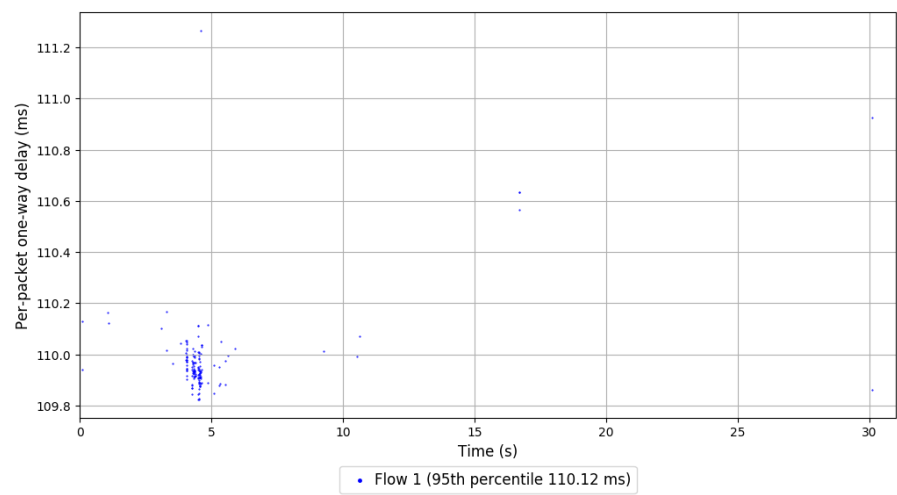
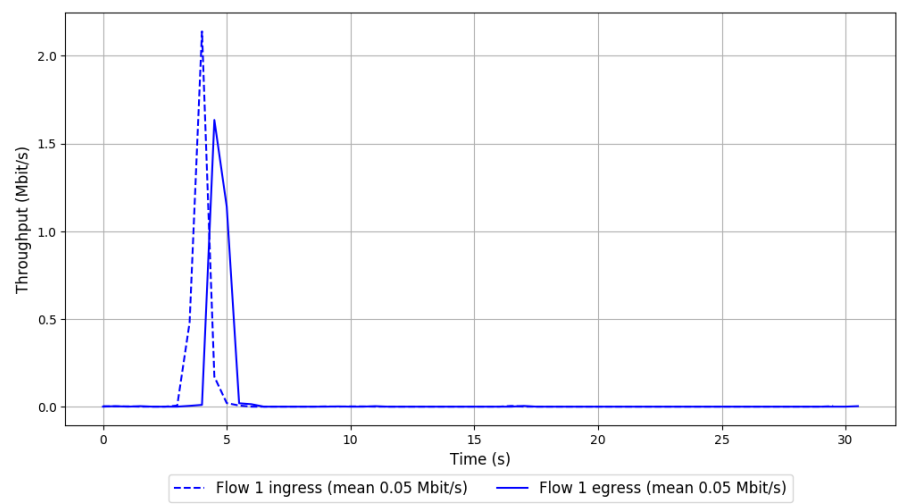
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 110.123 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-03-08 21:45:21

End at: 2019-03-08 21:45:51

Local clock offset: 3.811 ms

Remote clock offset: 4.284 ms

Below is generated by plot.py at 2019-03-09 00:06:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 109.598 ms

Loss rate: 0.00%

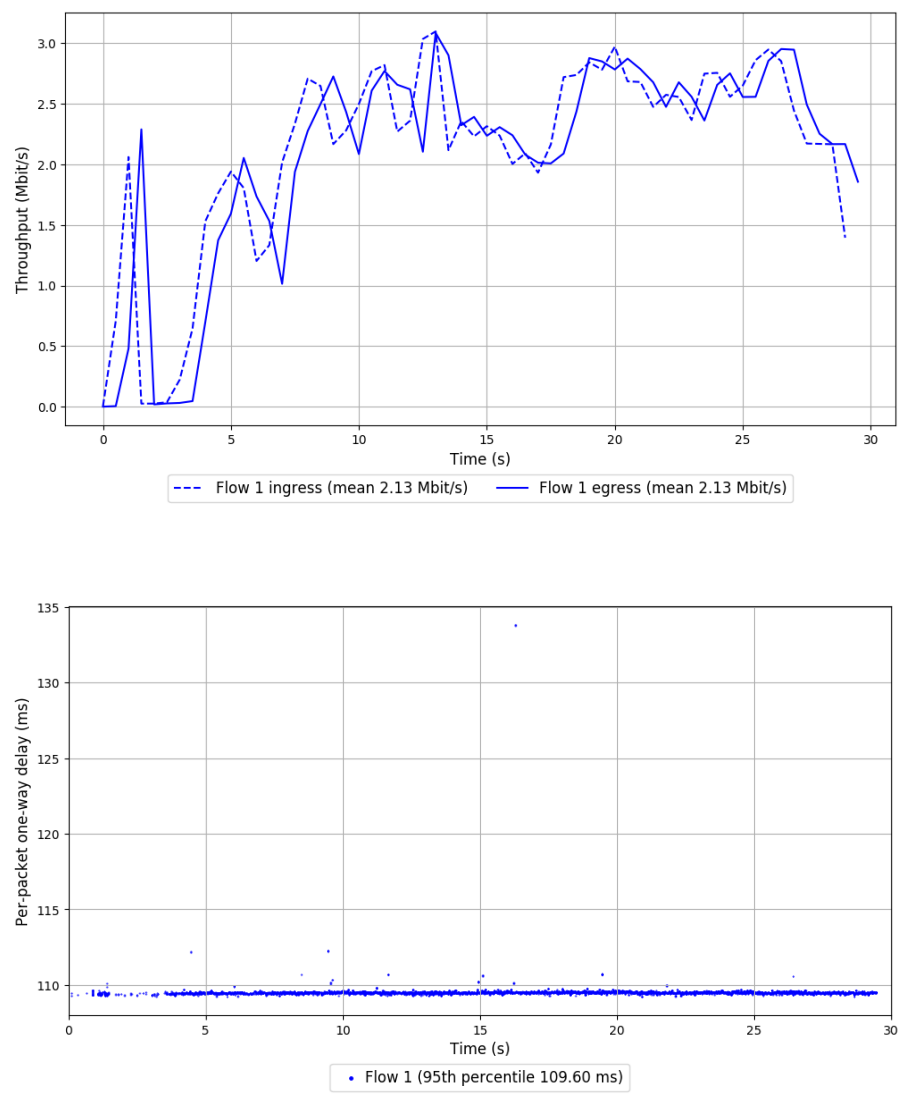
-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 109.598 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-03-08 22:17:08

End at: 2019-03-08 22:17:38

Local clock offset: 1.551 ms

Remote clock offset: 1.374 ms

Below is generated by plot.py at 2019-03-09 00:06:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 110.085 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 110.085 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

