

Pantheon Report

Generated at 2019-02-12 01:58:24 (UTC).

Data path: Stanford on `eno1` (*remote*) → AWS California 1 on `ens5` (*local*).

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.stanford.edu` and have been applied to correct the timestamps in logs.

System info:

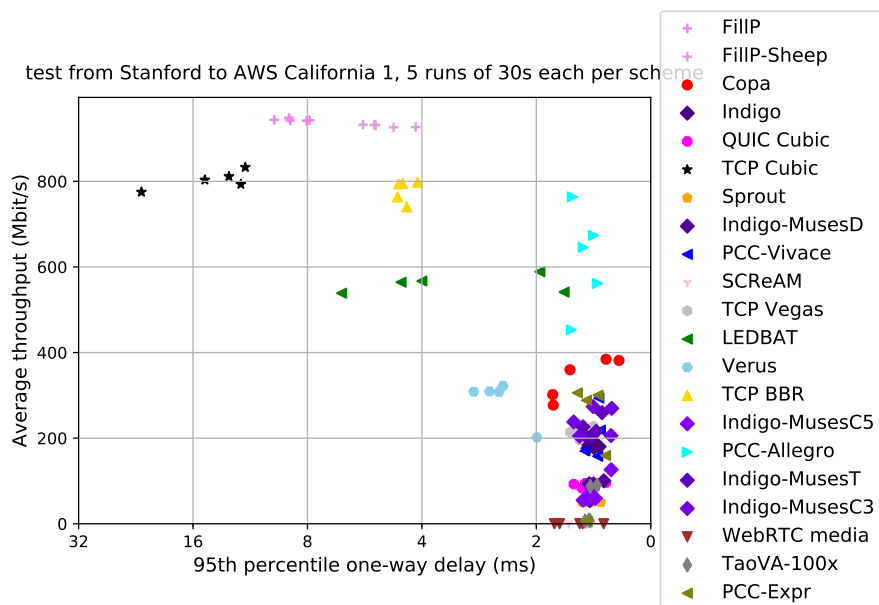
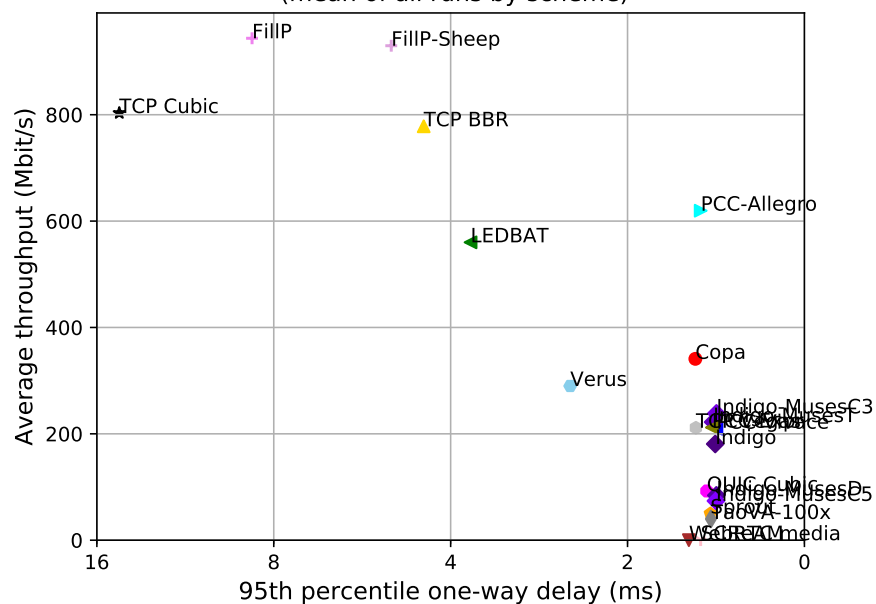
```
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
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 Stanford to AWS California 1, 5 runs of 30s each per scheme
(mean of all runs by scheme)



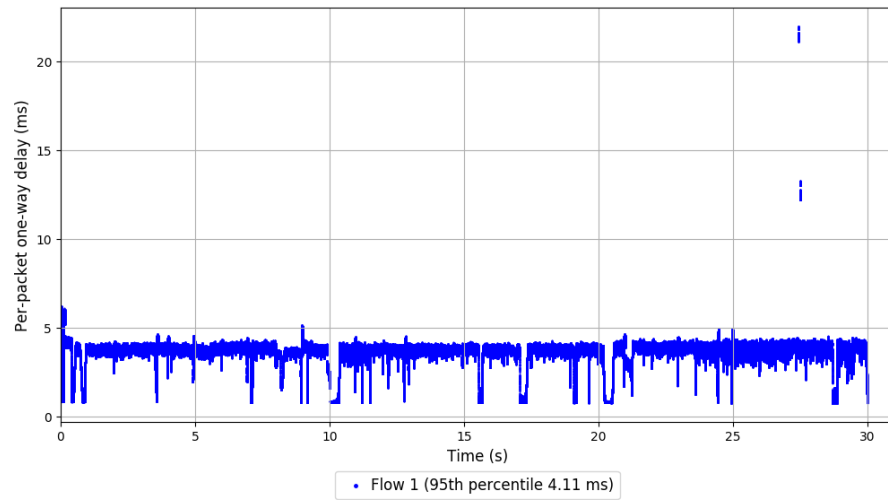
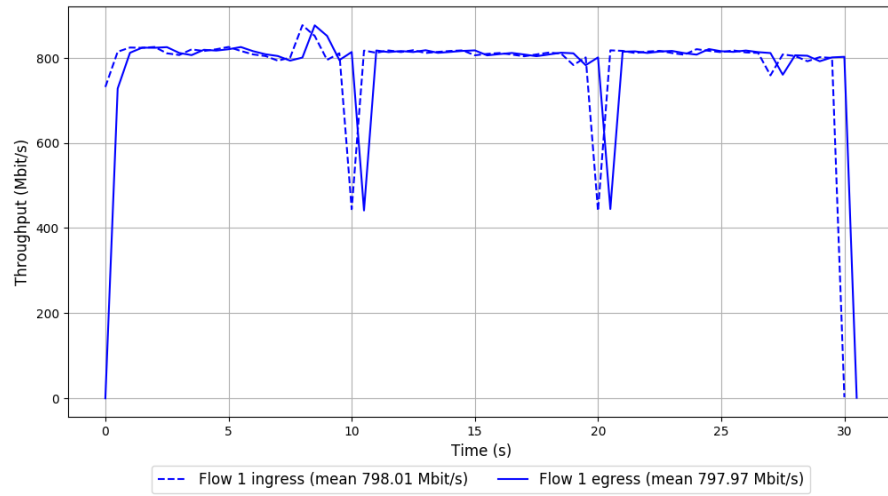
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	778.28	4.45	0.02
Copa	5	340.97	1.23	0.01
TCP Cubic	5	803.18	14.65	0.03
FillP	5	943.75	8.71	0.08
FillP-Sheep	5	929.74	5.05	0.02
Indigo	5	180.91	1.01	0.01
Indigo-MusesC3	5	238.40	0.99	0.01
Indigo-MusesC5	5	73.88	1.00	0.00
Indigo-MusesD	5	84.28	1.00	0.00
Indigo-MusesT	5	222.11	1.03	0.01
LEDBAT	5	560.06	3.70	0.01
PCC-Allegro	5	619.54	1.17	0.01
PCC-Expr	5	211.90	1.05	0.01
QUIC Cubic	5	92.52	1.10	0.01
SCReAM	5	0.22	1.17	0.05
Sprout	5	50.25	1.06	0.00
TaoVA-100x	5	39.91	1.06	0.01
TCP Vegas	5	211.41	1.23	0.00
Verus	5	289.96	2.50	0.02
PCC-Vivace	5	209.64	1.00	0.01
WebRTC media	5	0.05	1.31	0.01

Run 1: Statistics of TCP BBR

Start at: 2019-02-11 22:46:39
End at: 2019-02-11 22:47:09
Local clock offset: -0.598 ms
Remote clock offset: -1.364 ms

Below is generated by plot.py at 2019-02-12 01:13:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 797.97 Mbit/s
95th percentile per-packet one-way delay: 4.105 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 797.97 Mbit/s
95th percentile per-packet one-way delay: 4.105 ms
Loss rate: 0.01%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-02-11 23:16:04

End at: 2019-02-11 23:16:34

Local clock offset: 0.428 ms

Remote clock offset: 3.902 ms

Below is generated by plot.py at 2019-02-12 01:13:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 795.56 Mbit/s

95th percentile per-packet one-way delay: 4.498 ms

Loss rate: 0.02%

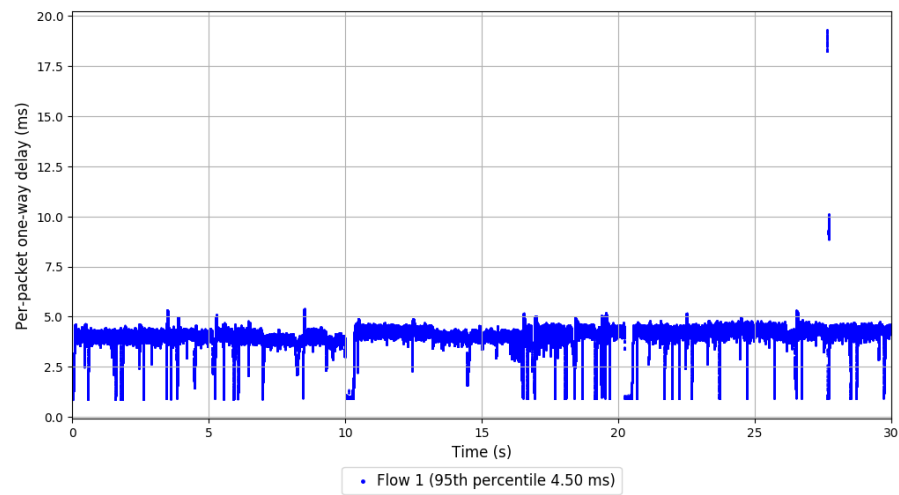
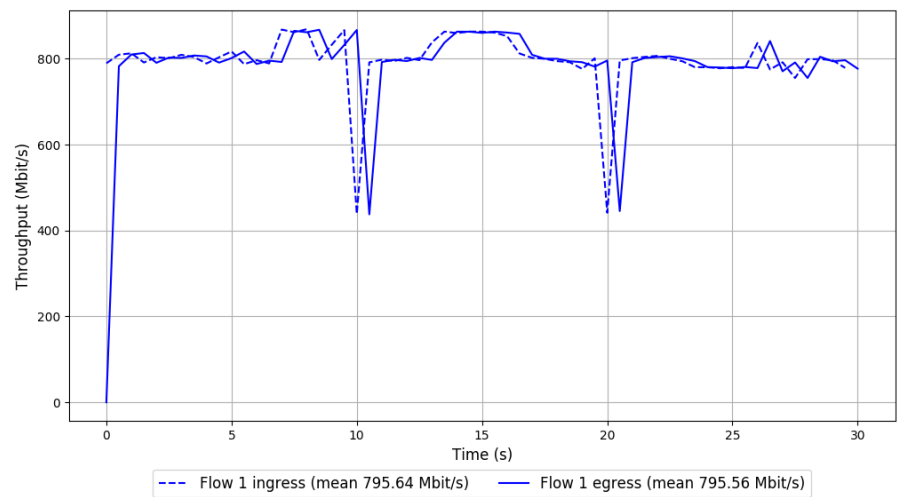
-- Flow 1:

Average throughput: 795.56 Mbit/s

95th percentile per-packet one-way delay: 4.498 ms

Loss rate: 0.02%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-02-11 23:45:37

End at: 2019-02-11 23:46:07

Local clock offset: 2.954 ms

Remote clock offset: -2.188 ms

Below is generated by plot.py at 2019-02-12 01:13:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 740.43 Mbit/s

95th percentile per-packet one-way delay: 4.383 ms

Loss rate: 0.02%

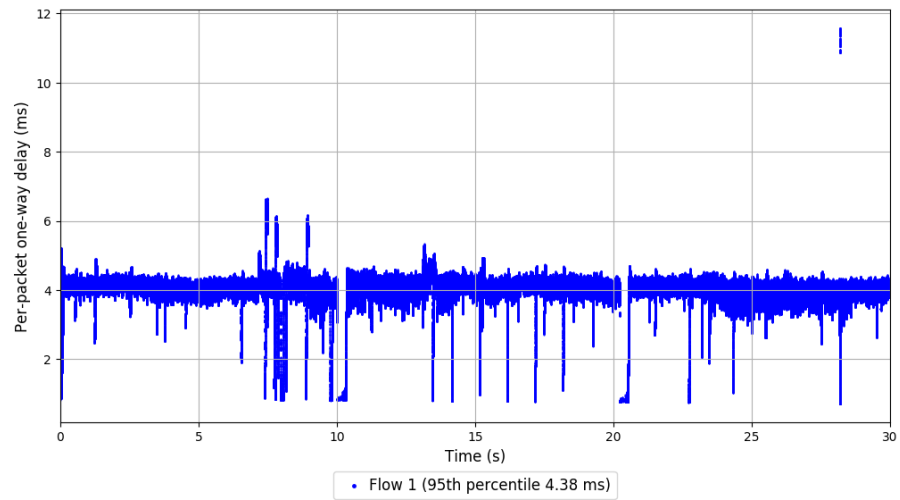
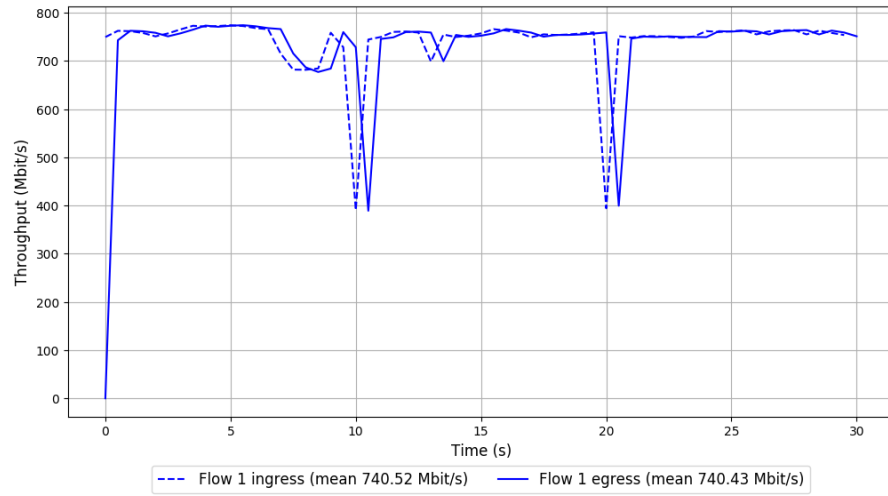
-- Flow 1:

Average throughput: 740.43 Mbit/s

95th percentile per-packet one-way delay: 4.383 ms

Loss rate: 0.02%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-02-12 00:15:00

End at: 2019-02-12 00:15:30

Local clock offset: 4.982 ms

Remote clock offset: -0.973 ms

Below is generated by plot.py at 2019-02-12 01:13:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 763.55 Mbit/s

95th percentile per-packet one-way delay: 4.636 ms

Loss rate: 0.02%

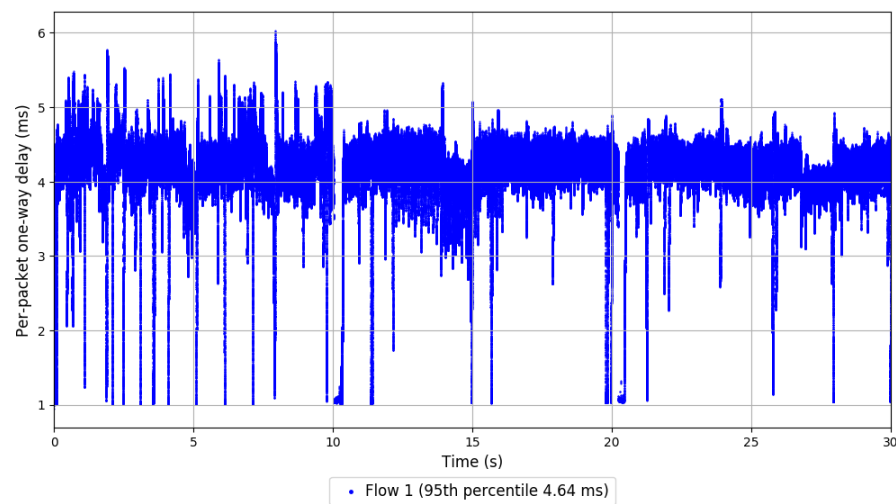
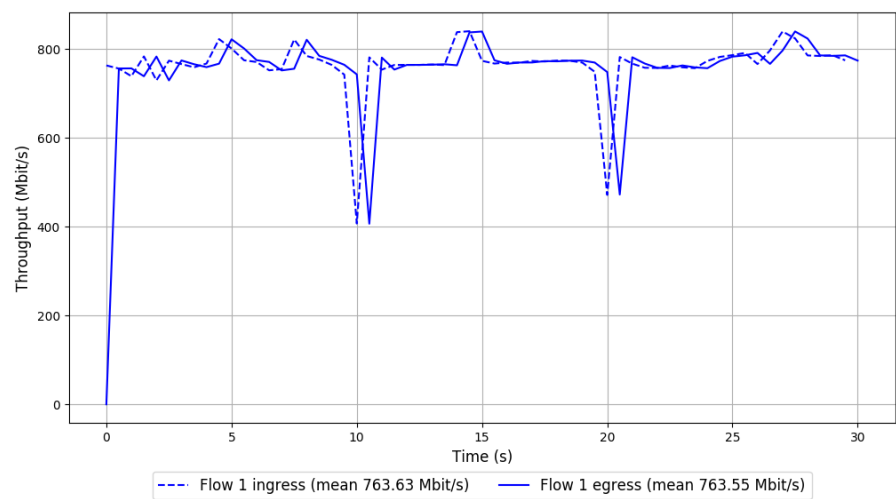
-- Flow 1:

Average throughput: 763.55 Mbit/s

95th percentile per-packet one-way delay: 4.636 ms

Loss rate: 0.02%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-02-12 00:44:32

End at: 2019-02-12 00:45:02

Local clock offset: 1.353 ms

Remote clock offset: -1.261 ms

Below is generated by plot.py at 2019-02-12 01:13:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 793.91 Mbit/s

95th percentile per-packet one-way delay: 4.604 ms

Loss rate: 0.02%

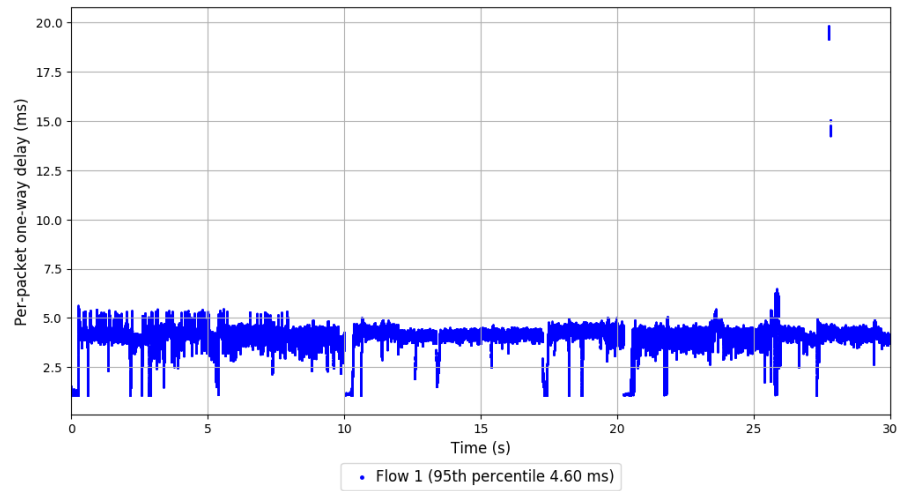
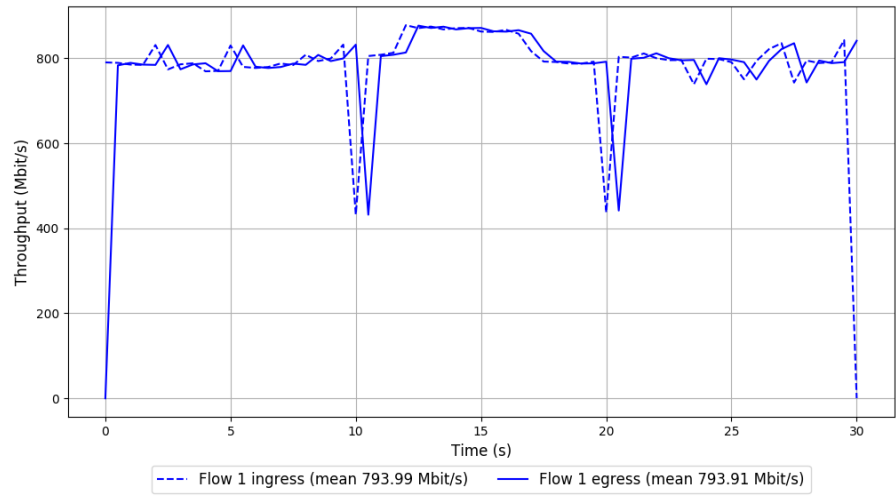
-- Flow 1:

Average throughput: 793.91 Mbit/s

95th percentile per-packet one-way delay: 4.604 ms

Loss rate: 0.02%

Run 5: Report of TCP BBR — Data Link

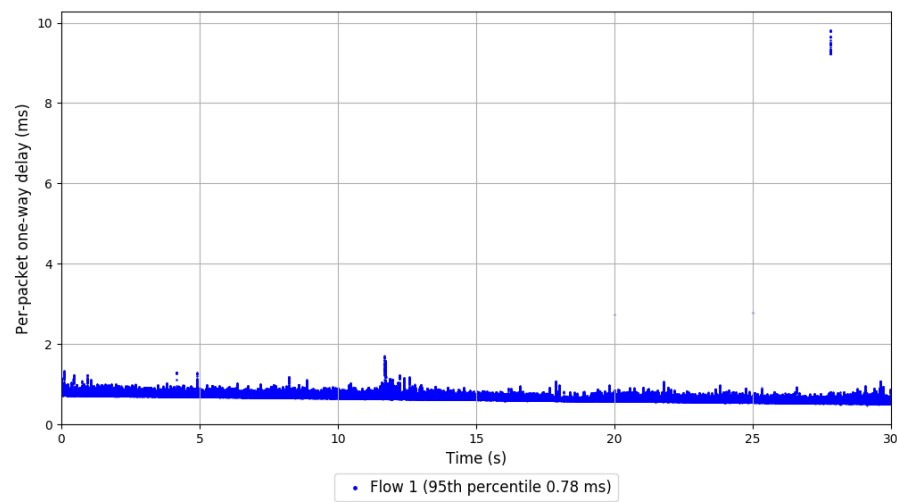
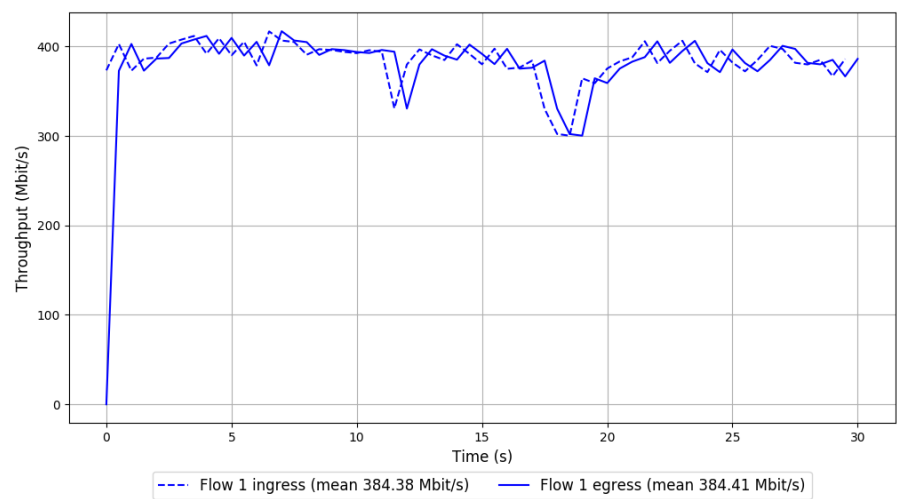


Run 1: Statistics of Copa

Start at: 2019-02-11 22:36:32
End at: 2019-02-11 22:37:02
Local clock offset: -2.831 ms
Remote clock offset: -0.814 ms

Below is generated by plot.py at 2019-02-12 01:13:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 384.41 Mbit/s
95th percentile per-packet one-way delay: 0.782 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 384.41 Mbit/s
95th percentile per-packet one-way delay: 0.782 ms
Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-02-11 23:06:03

End at: 2019-02-11 23:06:33

Local clock offset: 0.439 ms

Remote clock offset: 2.306 ms

Below is generated by plot.py at 2019-02-12 01:13:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 277.28 Mbit/s

95th percentile per-packet one-way delay: 1.704 ms

Loss rate: 0.01%

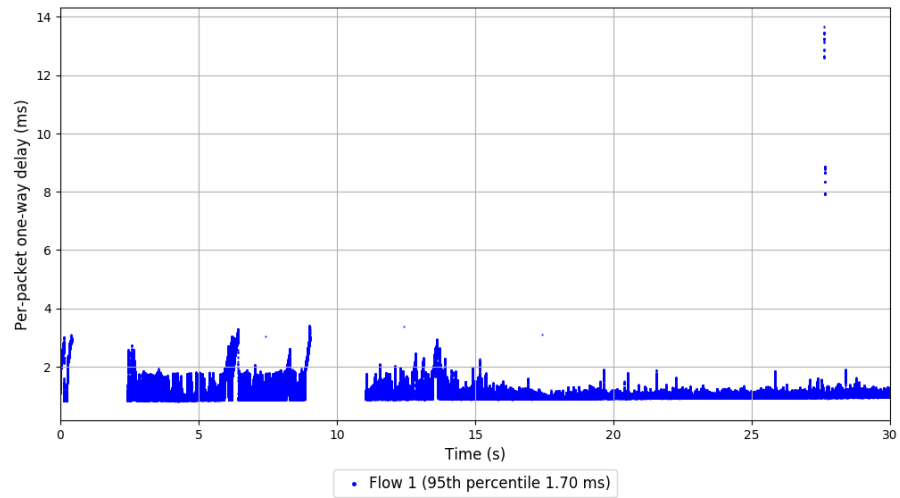
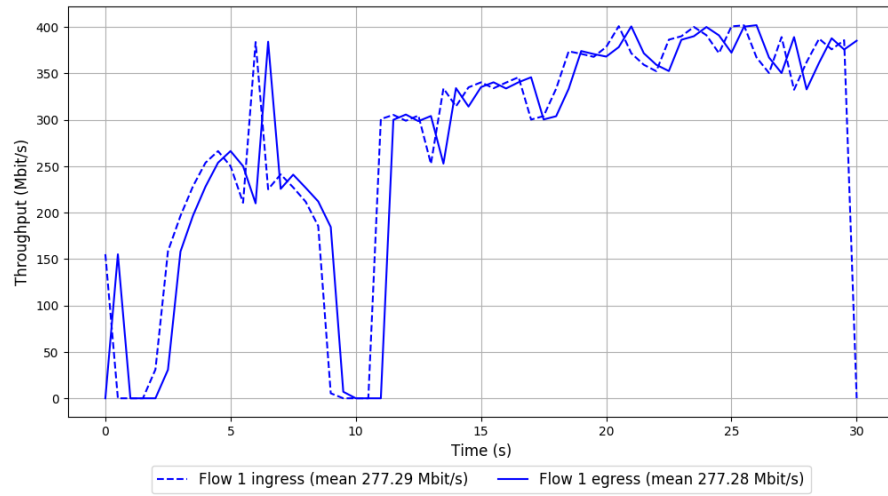
-- Flow 1:

Average throughput: 277.28 Mbit/s

95th percentile per-packet one-way delay: 1.704 ms

Loss rate: 0.01%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-02-11 23:35:38

End at: 2019-02-11 23:36:08

Local clock offset: 0.899 ms

Remote clock offset: 1.231 ms

Below is generated by plot.py at 2019-02-12 01:13:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 381.50 Mbit/s

95th percentile per-packet one-way delay: 0.555 ms

Loss rate: 0.01%

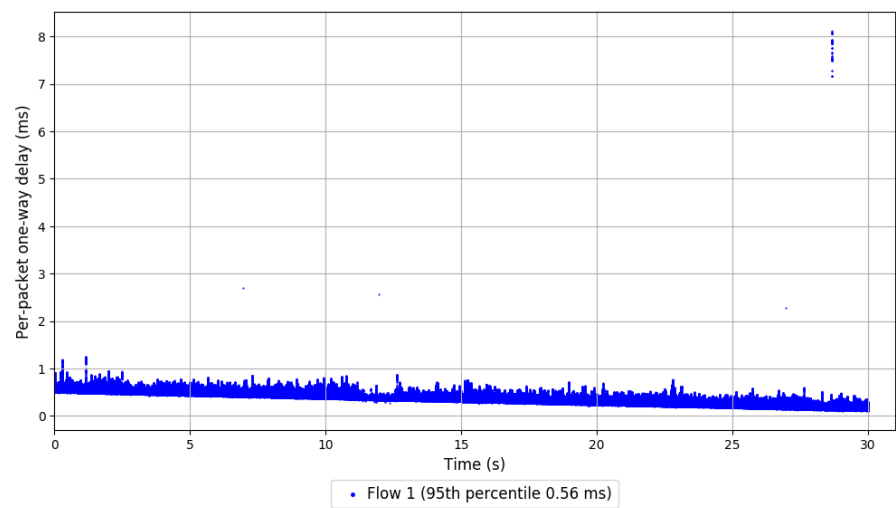
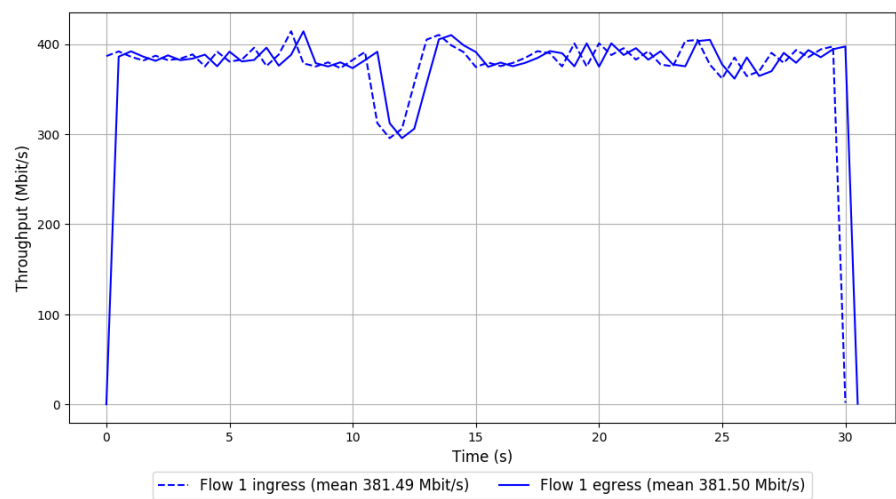
-- Flow 1:

Average throughput: 381.50 Mbit/s

95th percentile per-packet one-way delay: 0.555 ms

Loss rate: 0.01%

Run 3: Report of Copa — Data Link

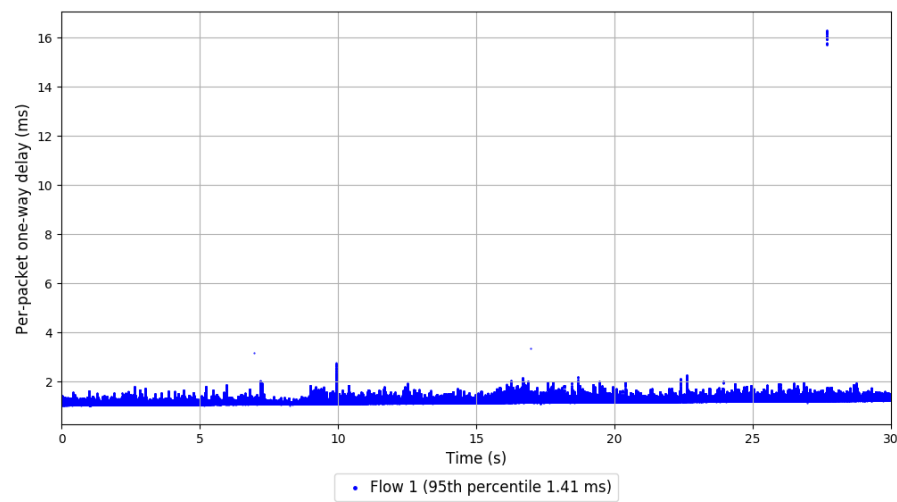
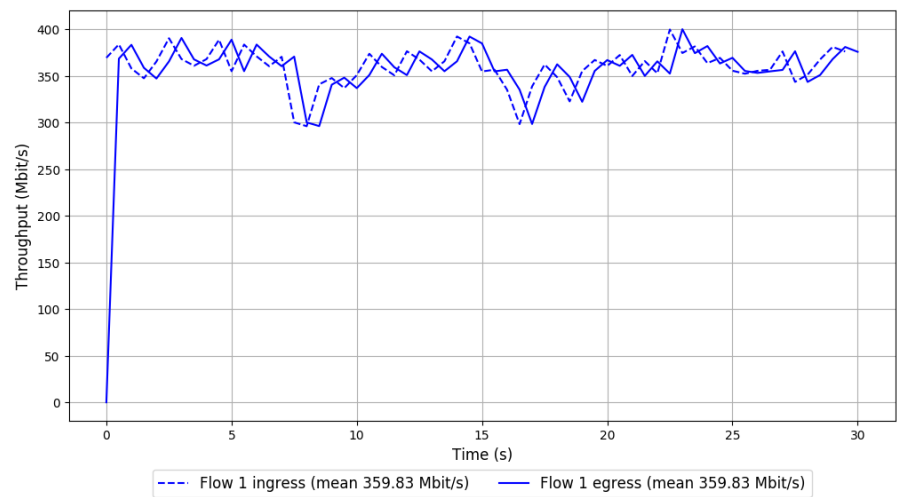


Run 4: Statistics of Copa

Start at: 2019-02-12 00:05:12
End at: 2019-02-12 00:05:42
Local clock offset: 4.497 ms
Remote clock offset: -3.597 ms

Below is generated by plot.py at 2019-02-12 01:17:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 359.83 Mbit/s
95th percentile per-packet one-way delay: 1.412 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 359.83 Mbit/s
95th percentile per-packet one-way delay: 1.412 ms
Loss rate: 0.01%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-02-12 00:34:30

End at: 2019-02-12 00:35:00

Local clock offset: 5.829 ms

Remote clock offset: 0.509 ms

Below is generated by plot.py at 2019-02-12 01:17:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 301.85 Mbit/s

95th percentile per-packet one-way delay: 1.713 ms

Loss rate: 0.01%

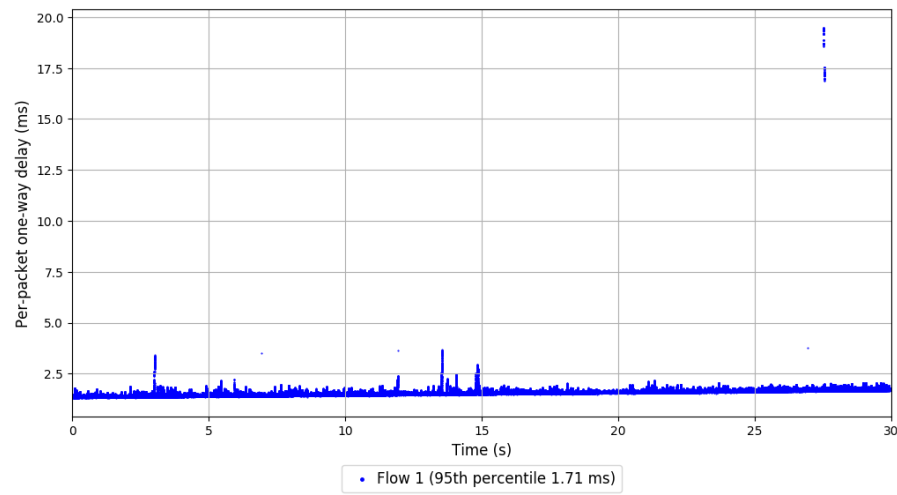
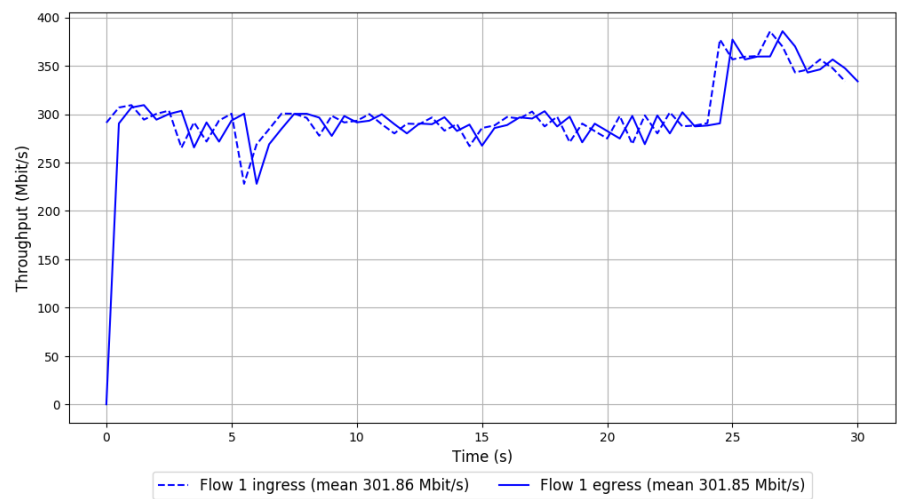
-- Flow 1:

Average throughput: 301.85 Mbit/s

95th percentile per-packet one-way delay: 1.713 ms

Loss rate: 0.01%

Run 5: Report of Copa — Data Link

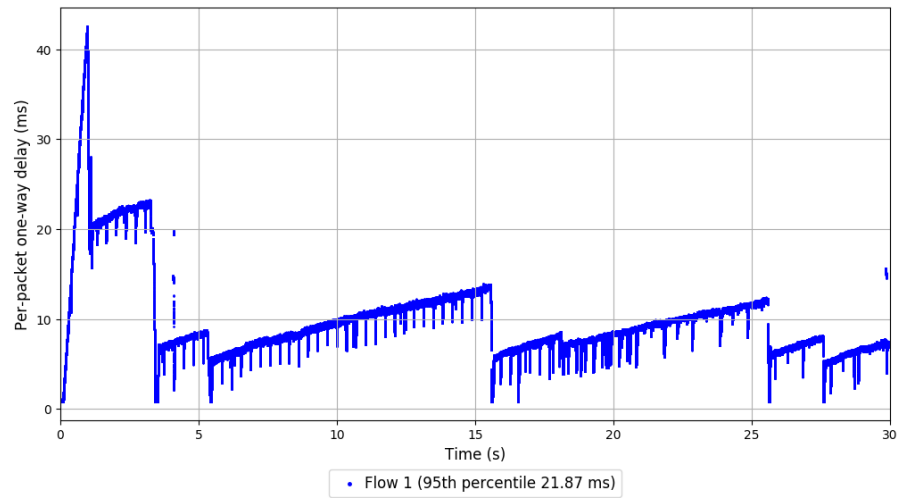
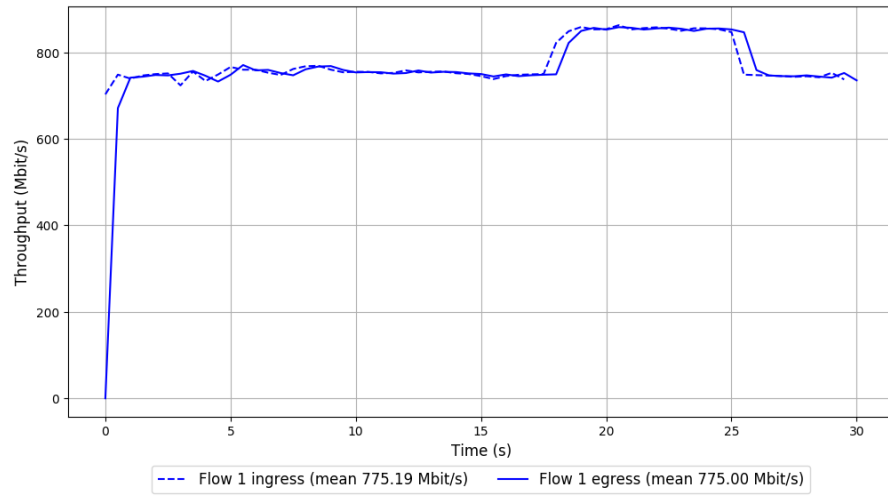


Run 1: Statistics of TCP Cubic

Start at: 2019-02-11 22:52:32
End at: 2019-02-11 22:53:02
Local clock offset: -0.067 ms
Remote clock offset: -1.602 ms

Below is generated by plot.py at 2019-02-12 01:20:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 775.00 Mbit/s
95th percentile per-packet one-way delay: 21.874 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 775.00 Mbit/s
95th percentile per-packet one-way delay: 21.874 ms
Loss rate: 0.03%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-02-11 23:21:56

End at: 2019-02-11 23:22:26

Local clock offset: 0.448 ms

Remote clock offset: 4.55 ms

Below is generated by plot.py at 2019-02-12 01:21:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 832.99 Mbit/s

95th percentile per-packet one-way delay: 11.659 ms

Loss rate: 0.04%

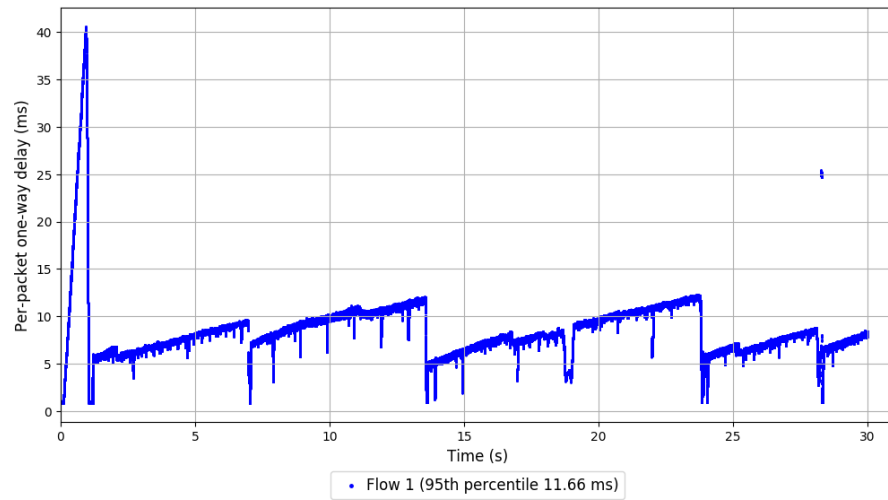
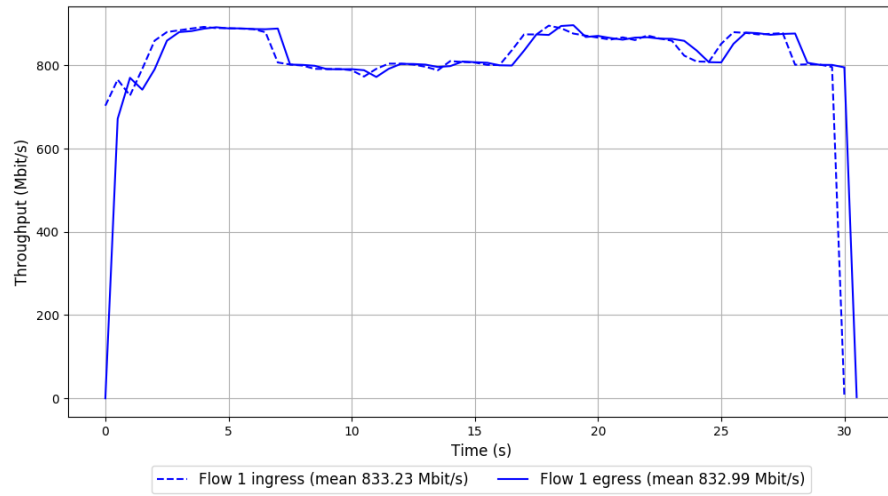
-- Flow 1:

Average throughput: 832.99 Mbit/s

95th percentile per-packet one-way delay: 11.659 ms

Loss rate: 0.04%

Run 2: Report of TCP Cubic — Data Link

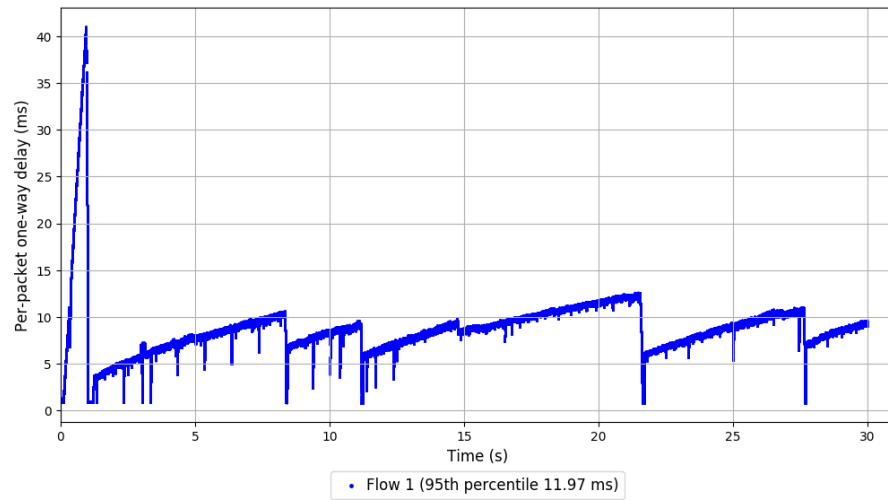
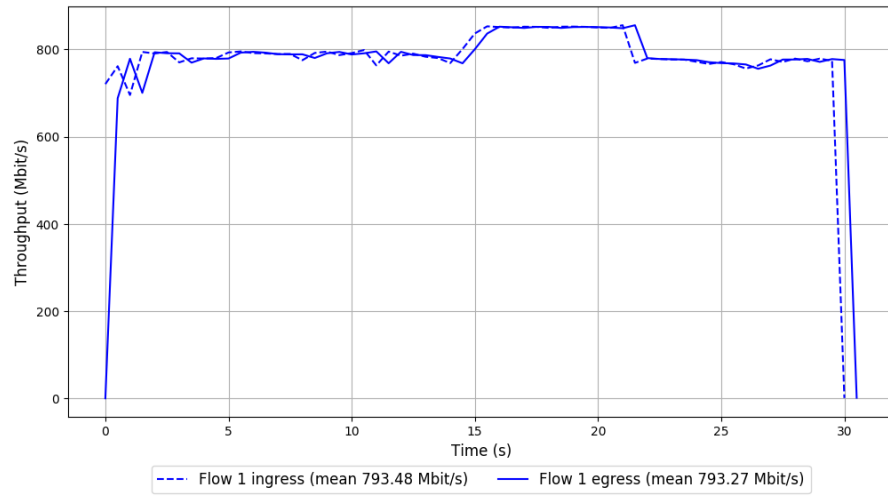


Run 3: Statistics of TCP Cubic

Start at: 2019-02-11 23:51:32
End at: 2019-02-11 23:52:02
Local clock offset: 3.595 ms
Remote clock offset: -3.054 ms

Below is generated by plot.py at 2019-02-12 01:21:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 793.27 Mbit/s
95th percentile per-packet one-way delay: 11.975 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 793.27 Mbit/s
95th percentile per-packet one-way delay: 11.975 ms
Loss rate: 0.03%

Run 3: Report of TCP Cubic — Data Link

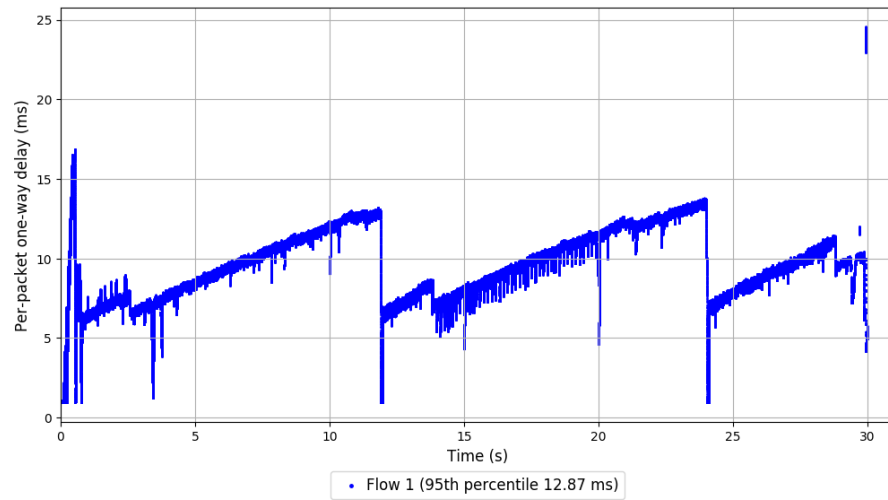
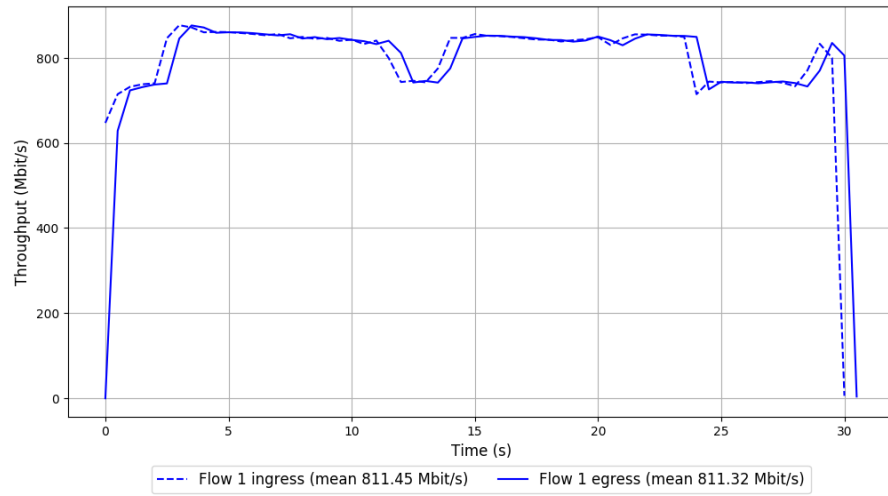


Run 4: Statistics of TCP Cubic

Start at: 2019-02-12 00:20:50
End at: 2019-02-12 00:21:20
Local clock offset: 5.28 ms
Remote clock offset: -0.234 ms

Below is generated by plot.py at 2019-02-12 01:21:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 811.32 Mbit/s
95th percentile per-packet one-way delay: 12.873 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 811.32 Mbit/s
95th percentile per-packet one-way delay: 12.873 ms
Loss rate: 0.02%

Run 4: Report of TCP Cubic — Data Link

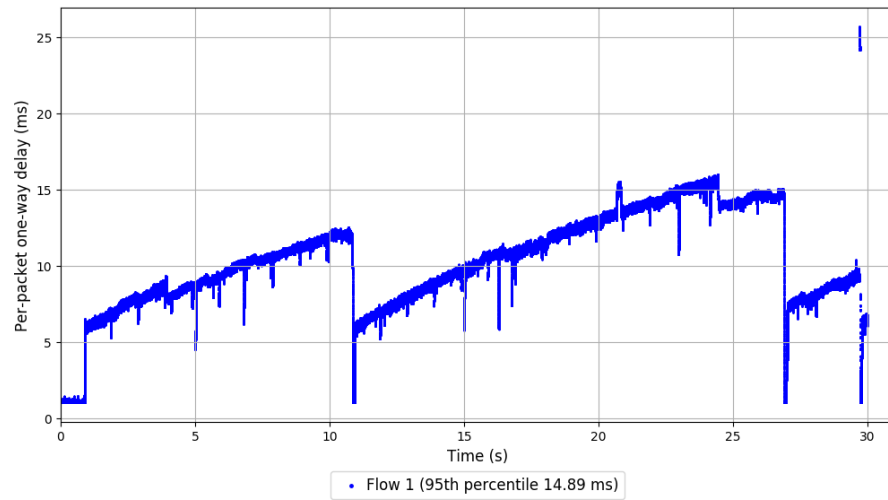
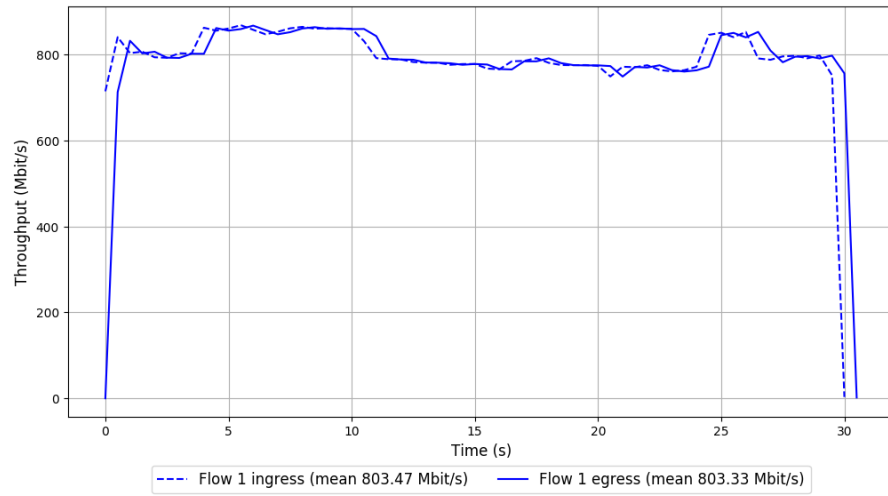


Run 5: Statistics of TCP Cubic

Start at: 2019-02-12 00:50:26
End at: 2019-02-12 00:50:56
Local clock offset: 0.142 ms
Remote clock offset: -2.359 ms

Below is generated by plot.py at 2019-02-12 01:21:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 803.33 Mbit/s
95th percentile per-packet one-way delay: 14.893 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 803.33 Mbit/s
95th percentile per-packet one-way delay: 14.893 ms
Loss rate: 0.02%

Run 5: Report of TCP Cubic — Data Link

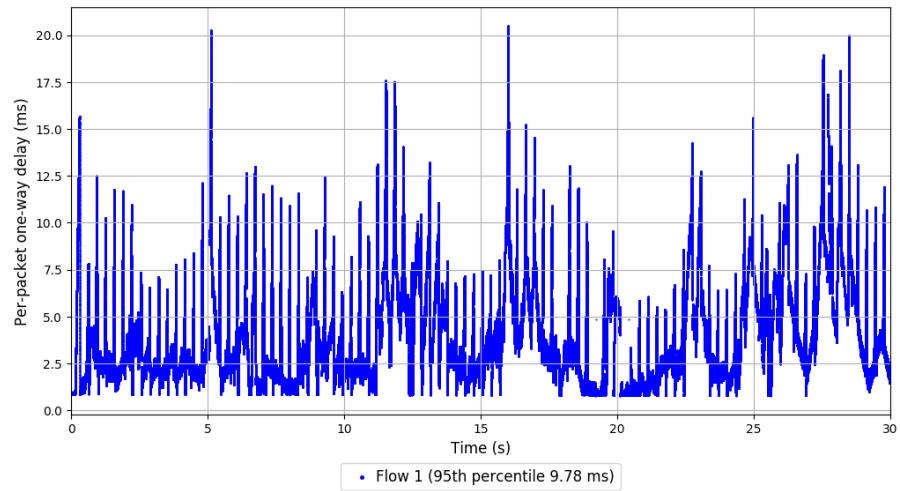
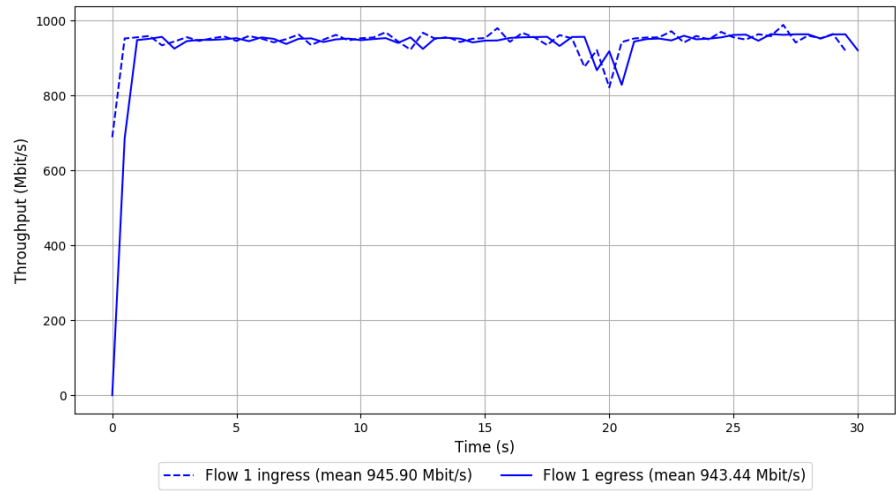


Run 1: Statistics of FillP

Start at: 2019-02-11 22:45:01
End at: 2019-02-11 22:45:31
Local clock offset: -0.784 ms
Remote clock offset: -1.347 ms

Below is generated by plot.py at 2019-02-12 01:25:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 943.44 Mbit/s
95th percentile per-packet one-way delay: 9.783 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 943.44 Mbit/s
95th percentile per-packet one-way delay: 9.783 ms
Loss rate: 0.27%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-02-11 23:14:26

End at: 2019-02-11 23:14:56

Local clock offset: 0.425 ms

Remote clock offset: 3.594 ms

Below is generated by plot.py at 2019-02-12 01:31:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 941.84 Mbit/s

95th percentile per-packet one-way delay: 8.044 ms

Loss rate: 0.08%

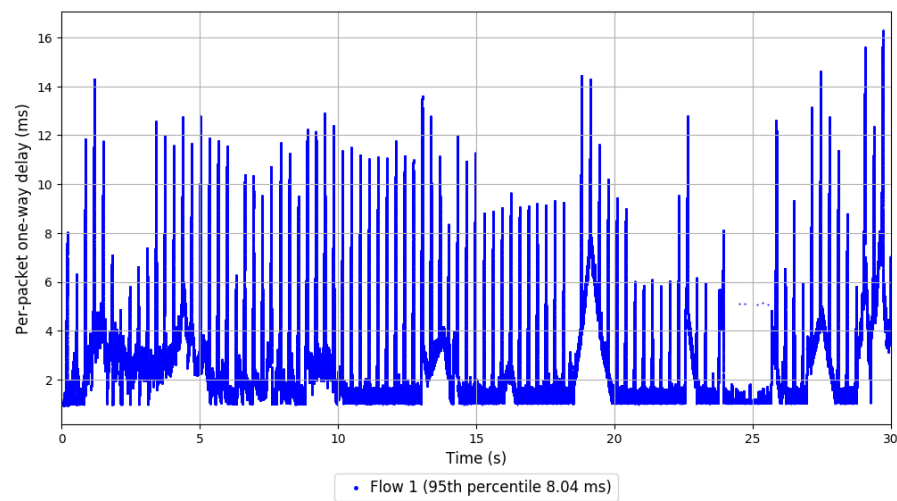
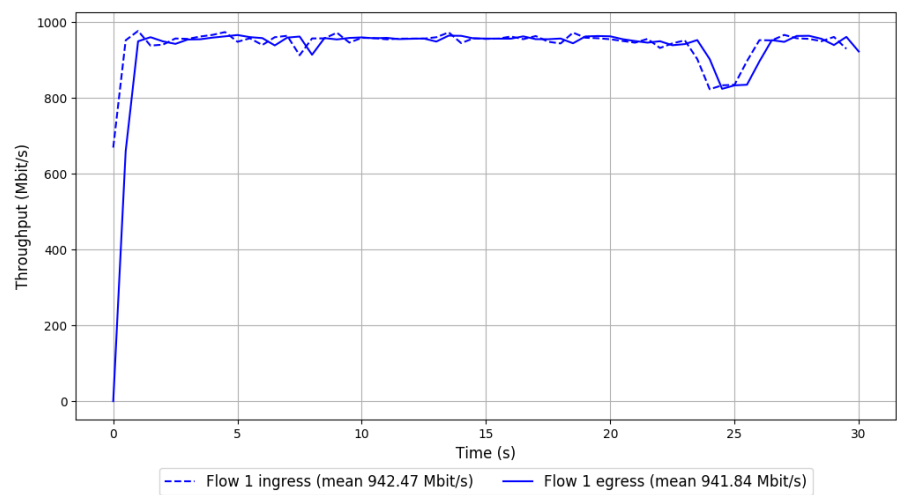
-- Flow 1:

Average throughput: 941.84 Mbit/s

95th percentile per-packet one-way delay: 8.044 ms

Loss rate: 0.08%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-02-11 23:43:58

End at: 2019-02-11 23:44:28

Local clock offset: 2.74 ms

Remote clock offset: -1.75 ms

Below is generated by plot.py at 2019-02-12 01:31:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 942.29 Mbit/s

95th percentile per-packet one-way delay: 8.873 ms

Loss rate: 0.03%

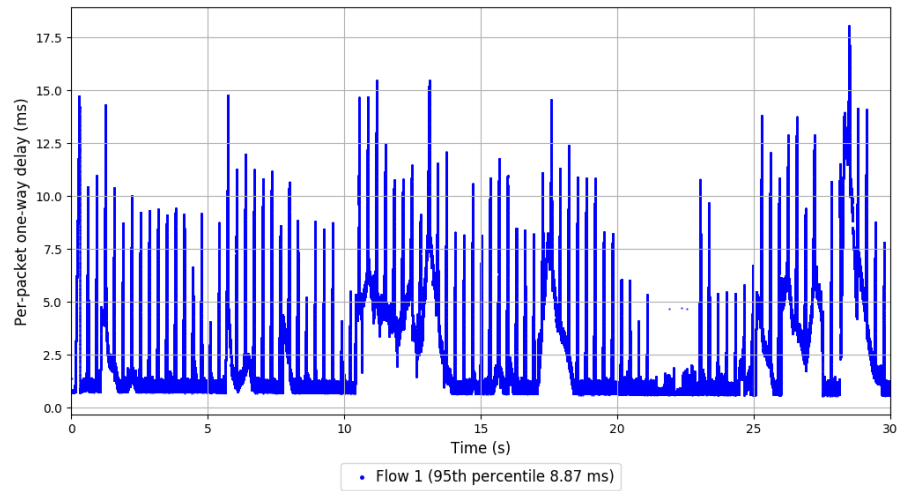
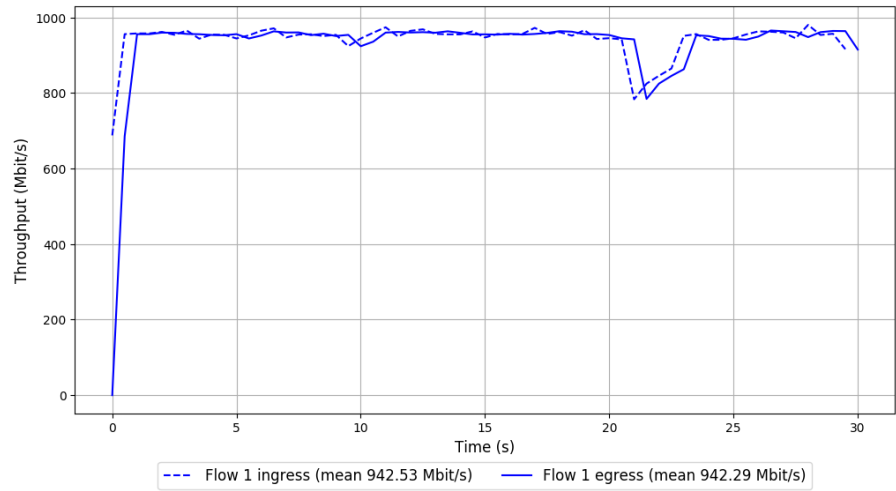
-- Flow 1:

Average throughput: 942.29 Mbit/s

95th percentile per-packet one-way delay: 8.873 ms

Loss rate: 0.03%

Run 3: Report of FillP — Data Link

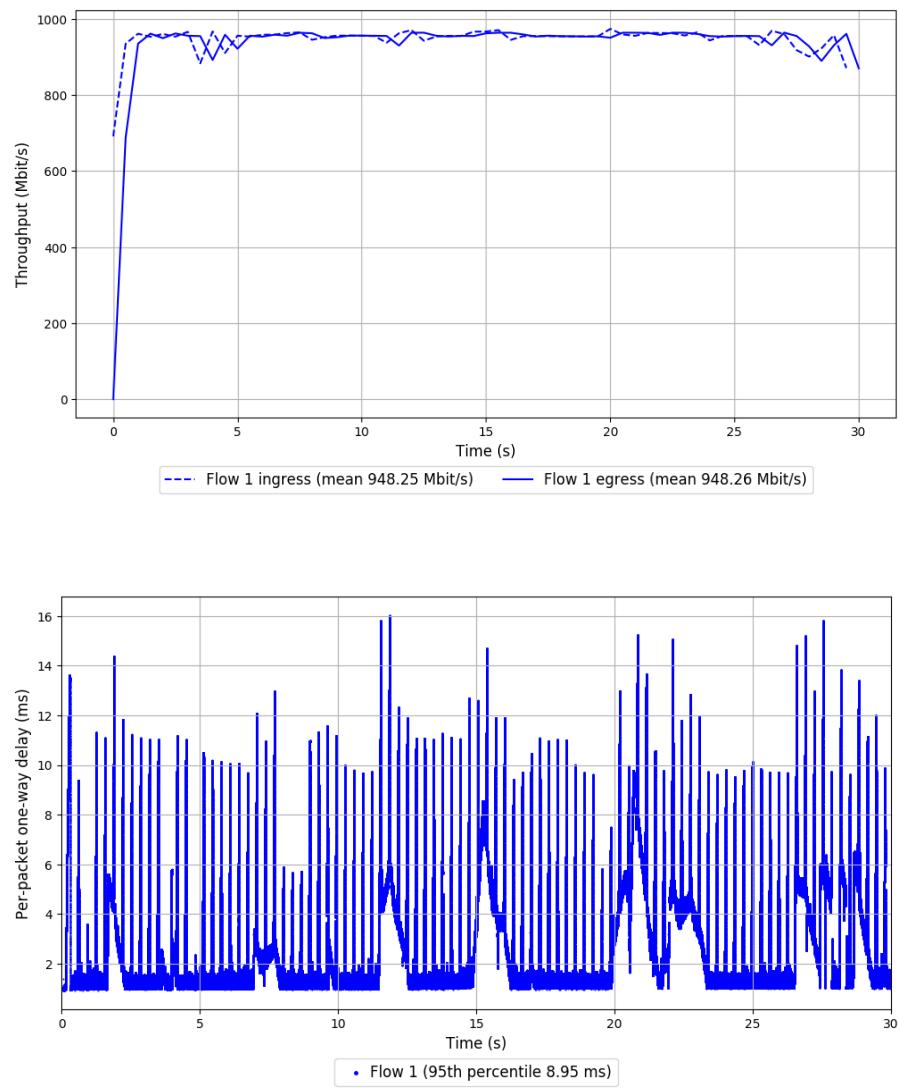


Run 4: Statistics of FillP

Start at: 2019-02-12 00:13:22
End at: 2019-02-12 00:13:52
Local clock offset: 4.906 ms
Remote clock offset: -1.211 ms

Below is generated by plot.py at 2019-02-12 01:32:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 948.26 Mbit/s
95th percentile per-packet one-way delay: 8.952 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 948.26 Mbit/s
95th percentile per-packet one-way delay: 8.952 ms
Loss rate: 0.01%

Run 4: Report of FillP — Data Link

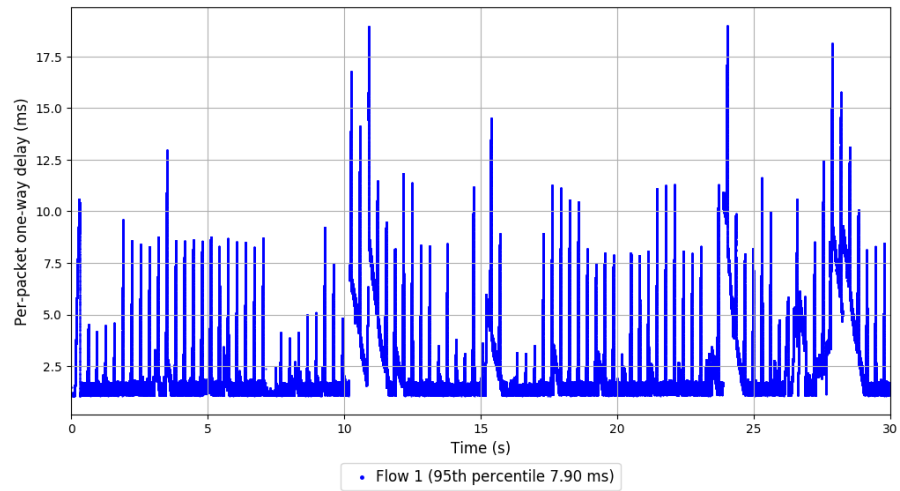
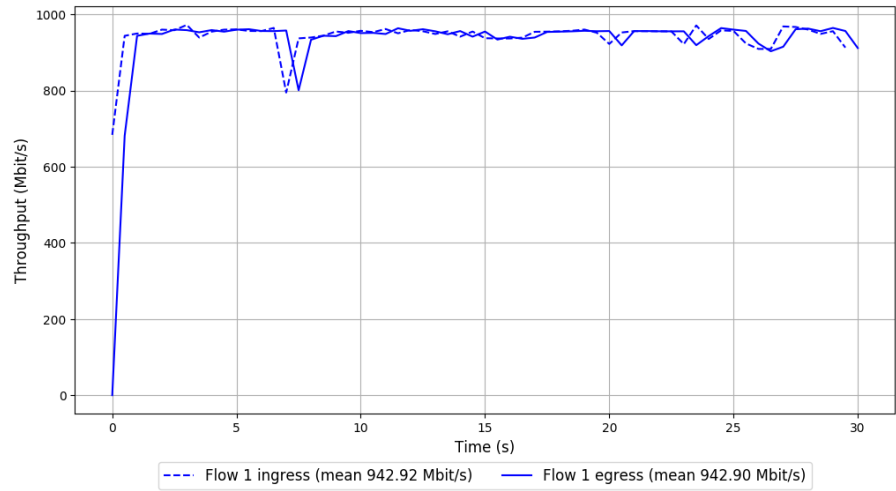


Run 5: Statistics of FillP

Start at: 2019-02-12 00:42:54
End at: 2019-02-12 00:43:24
Local clock offset: 1.847 ms
Remote clock offset: -0.822 ms

Below is generated by plot.py at 2019-02-12 01:33:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 942.90 Mbit/s
95th percentile per-packet one-way delay: 7.899 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 942.90 Mbit/s
95th percentile per-packet one-way delay: 7.899 ms
Loss rate: 0.01%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-02-11 22:38:09

End at: 2019-02-11 22:38:39

Local clock offset: -2.286 ms

Remote clock offset: -0.813 ms

Below is generated by plot.py at 2019-02-12 01:33:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 926.32 Mbit/s

95th percentile per-packet one-way delay: 4.746 ms

Loss rate: 0.04%

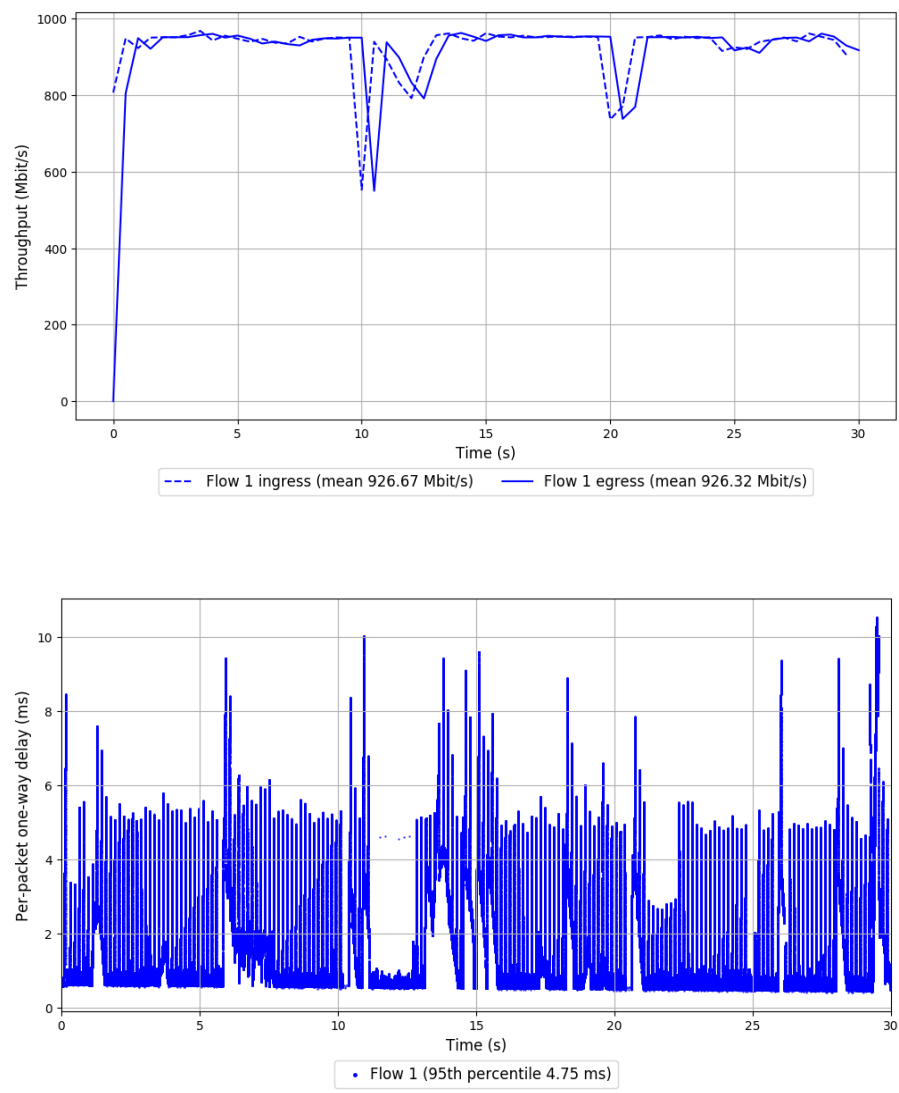
-- Flow 1:

Average throughput: 926.32 Mbit/s

95th percentile per-packet one-way delay: 4.746 ms

Loss rate: 0.04%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-02-11 23:07:33

End at: 2019-02-11 23:08:03

Local clock offset: 0.422 ms

Remote clock offset: 2.543 ms

Below is generated by plot.py at 2019-02-12 01:33:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 932.36 Mbit/s

95th percentile per-packet one-way delay: 5.714 ms

Loss rate: 0.04%

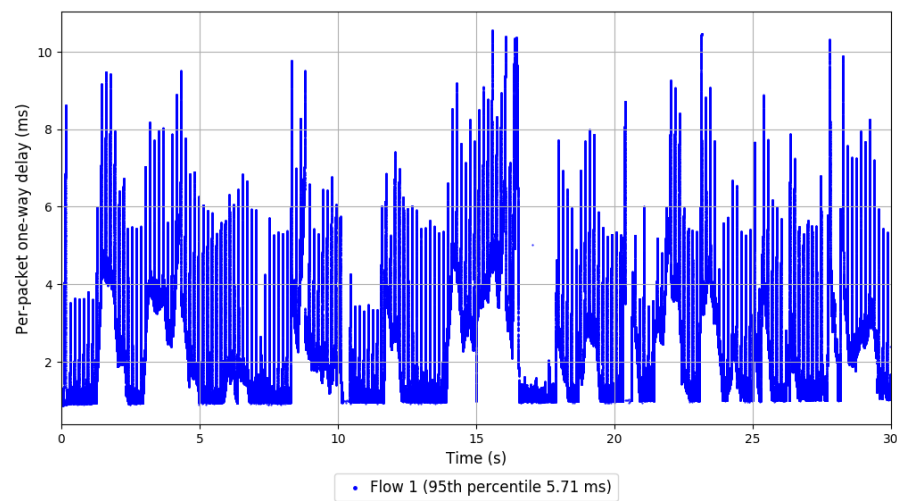
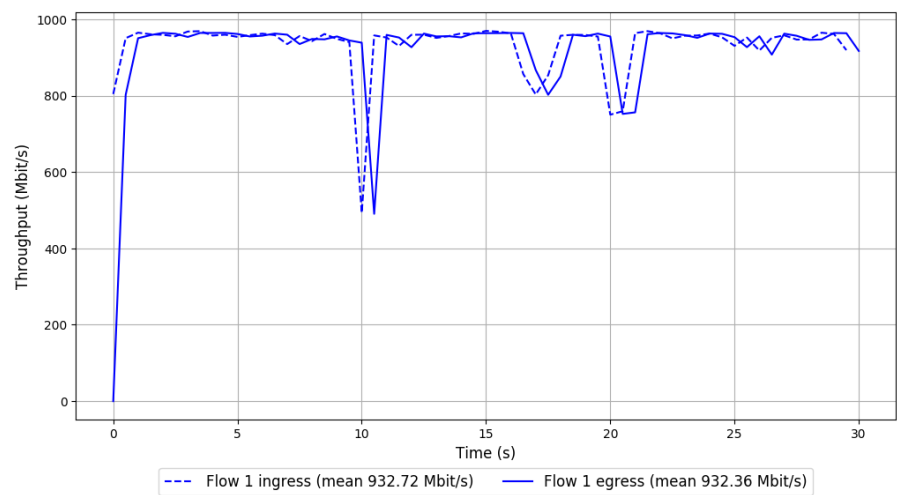
-- Flow 1:

Average throughput: 932.36 Mbit/s

95th percentile per-packet one-way delay: 5.714 ms

Loss rate: 0.04%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-02-11 23:37:15

End at: 2019-02-11 23:37:45

Local clock offset: 1.389 ms

Remote clock offset: 0.302 ms

Below is generated by plot.py at 2019-02-12 01:33:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 926.72 Mbit/s

95th percentile per-packet one-way delay: 4.153 ms

Loss rate: 0.02%

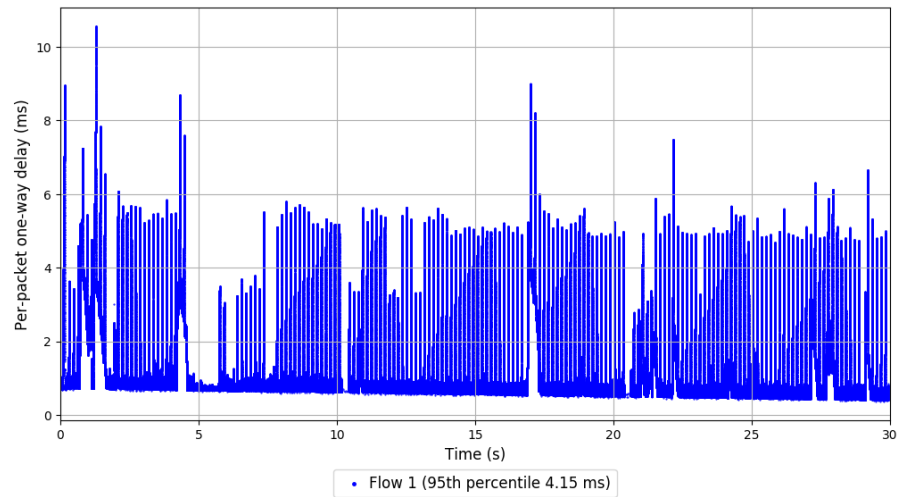
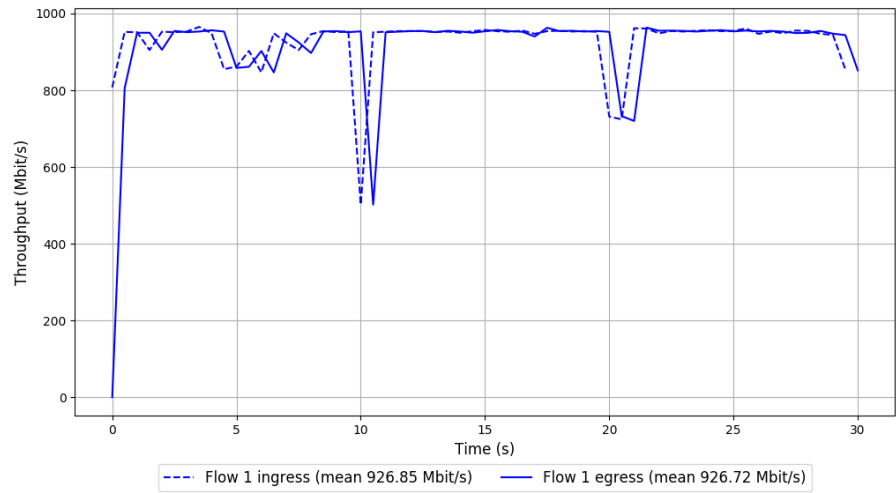
-- Flow 1:

Average throughput: 926.72 Mbit/s

95th percentile per-packet one-way delay: 4.153 ms

Loss rate: 0.02%

Run 3: Report of FillP-Sheep — Data Link

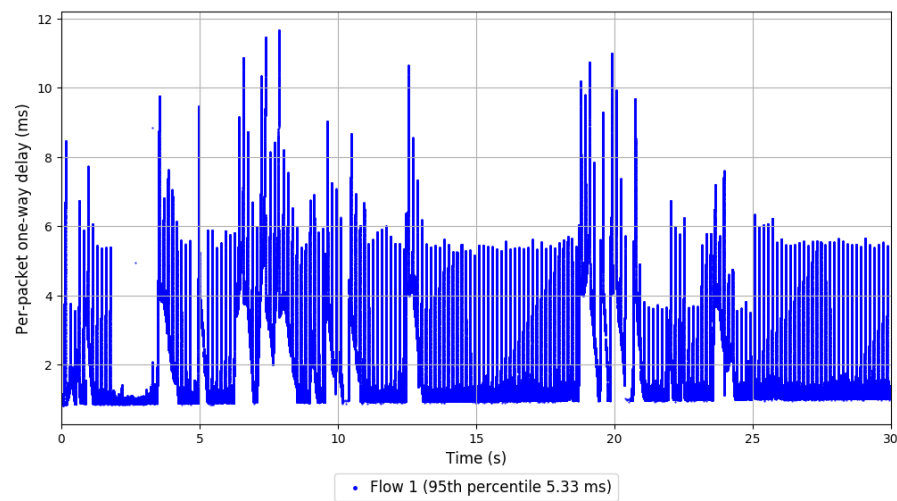
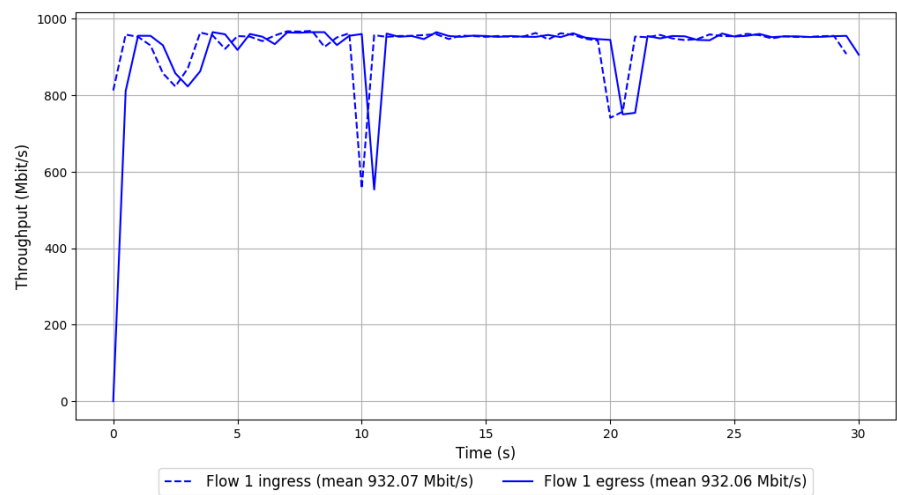


Run 4: Statistics of FillP-Sheep

Start at: 2019-02-12 00:06:48
End at: 2019-02-12 00:07:18
Local clock offset: 4.568 ms
Remote clock offset: -2.808 ms

Below is generated by plot.py at 2019-02-12 01:38:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 932.06 Mbit/s
95th percentile per-packet one-way delay: 5.335 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 932.06 Mbit/s
95th percentile per-packet one-way delay: 5.335 ms
Loss rate: 0.01%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-02-12 00:36:02

End at: 2019-02-12 00:36:32

Local clock offset: 4.759 ms

Remote clock offset: 0.472 ms

Below is generated by plot.py at 2019-02-12 01:43:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 931.23 Mbit/s

95th percentile per-packet one-way delay: 5.293 ms

Loss rate: 0.01%

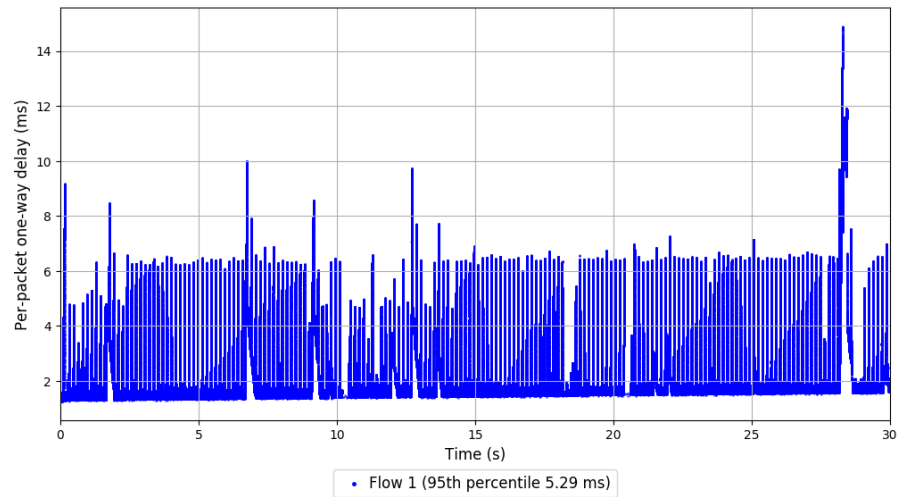
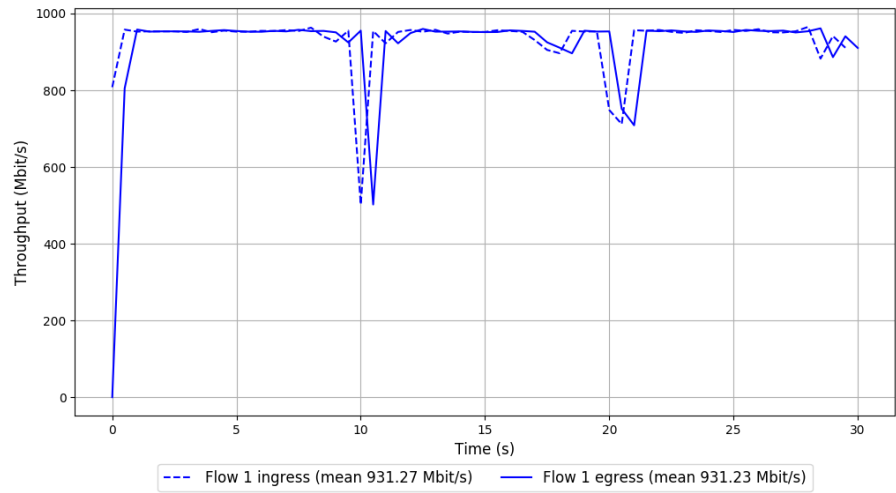
-- Flow 1:

Average throughput: 931.23 Mbit/s

95th percentile per-packet one-way delay: 5.293 ms

Loss rate: 0.01%

Run 5: Report of FillP-Sheep — Data Link

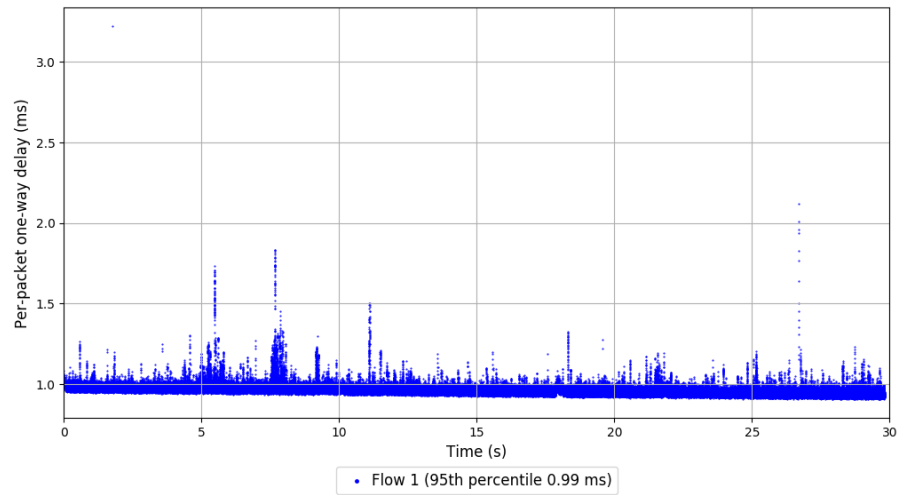
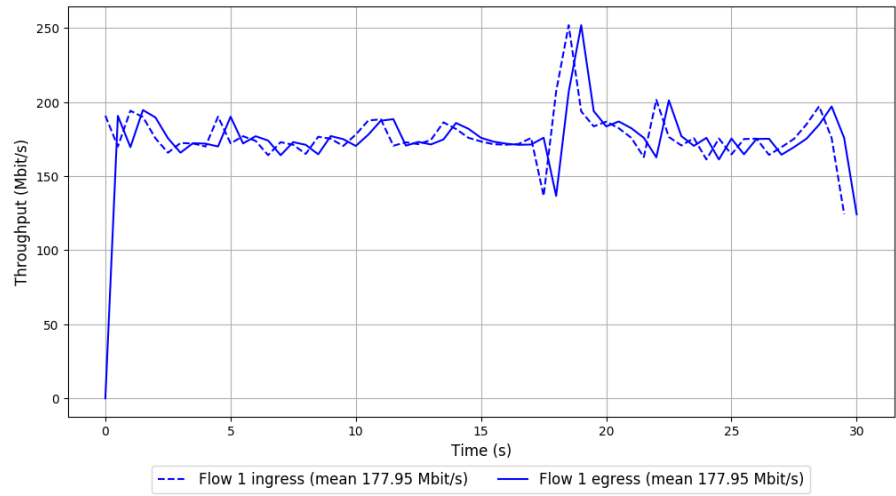


```
Run 1: Statistics of Indigo

Start at: 2019-02-11 22:54:10
End at: 2019-02-11 22:54:40
Local clock offset: 0.055 ms
Remote clock offset: -1.72 ms

# Below is generated by plot.py at 2019-02-12 01:43:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 177.95 Mbit/s
95th percentile per-packet one-way delay: 0.992 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 177.95 Mbit/s
95th percentile per-packet one-way delay: 0.992 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-02-11 23:23:36

End at: 2019-02-11 23:24:06

Local clock offset: 0.465 ms

Remote clock offset: 4.646 ms

Below is generated by plot.py at 2019-02-12 01:43:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.25 Mbit/s

95th percentile per-packet one-way delay: 1.099 ms

Loss rate: 0.01%

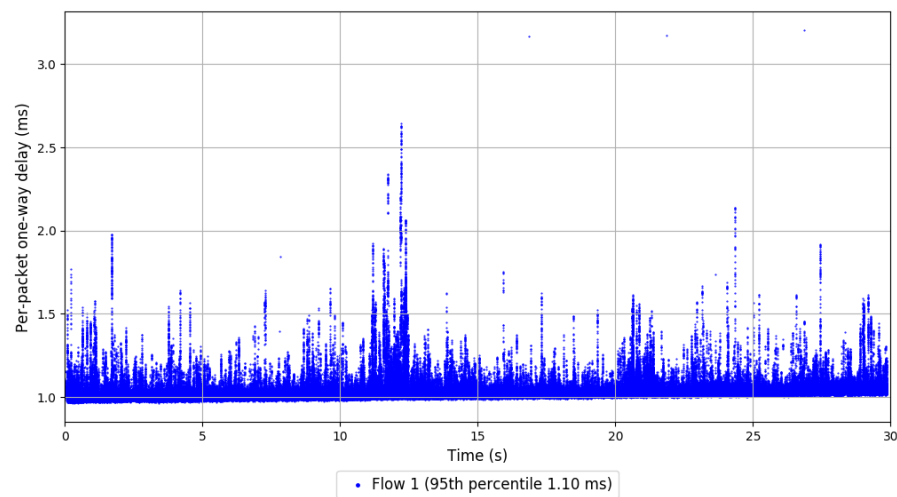
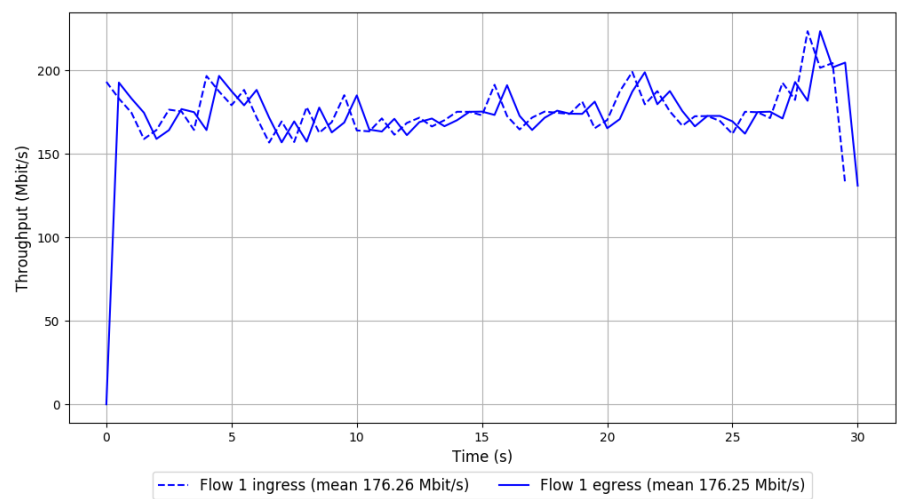
-- Flow 1:

Average throughput: 176.25 Mbit/s

95th percentile per-packet one-way delay: 1.099 ms

Loss rate: 0.01%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-02-11 23:53:10

End at: 2019-02-11 23:53:40

Local clock offset: 3.727 ms

Remote clock offset: -3.227 ms

Below is generated by plot.py at 2019-02-12 01:43:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.22 Mbit/s

95th percentile per-packet one-way delay: 0.903 ms

Loss rate: 0.01%

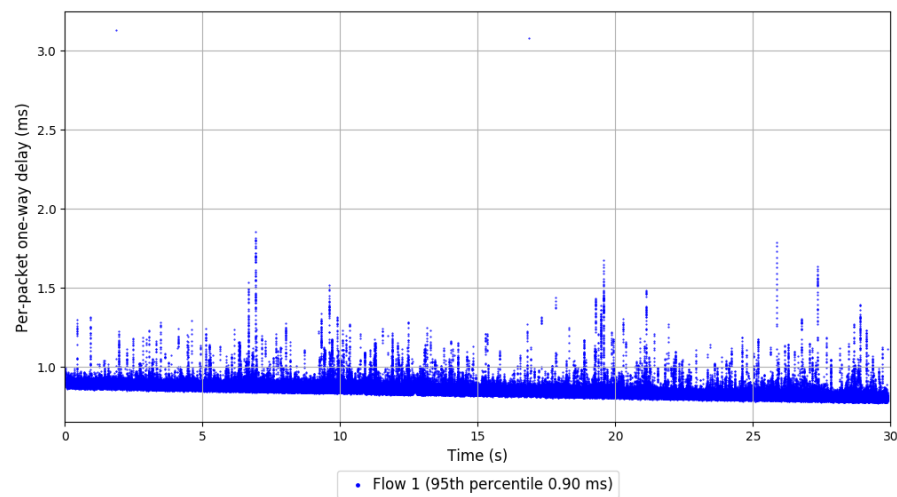
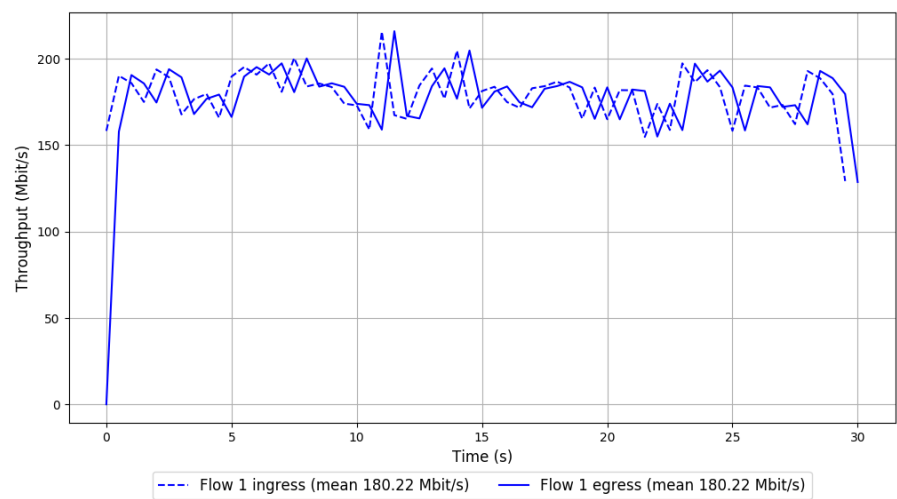
-- Flow 1:

Average throughput: 180.22 Mbit/s

95th percentile per-packet one-way delay: 0.903 ms

Loss rate: 0.01%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-02-12 00:22:29

End at: 2019-02-12 00:22:59

Local clock offset: 5.354 ms

Remote clock offset: -0.079 ms

Below is generated by plot.py at 2019-02-12 01:43:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.27 Mbit/s

95th percentile per-packet one-way delay: 0.966 ms

Loss rate: 0.01%

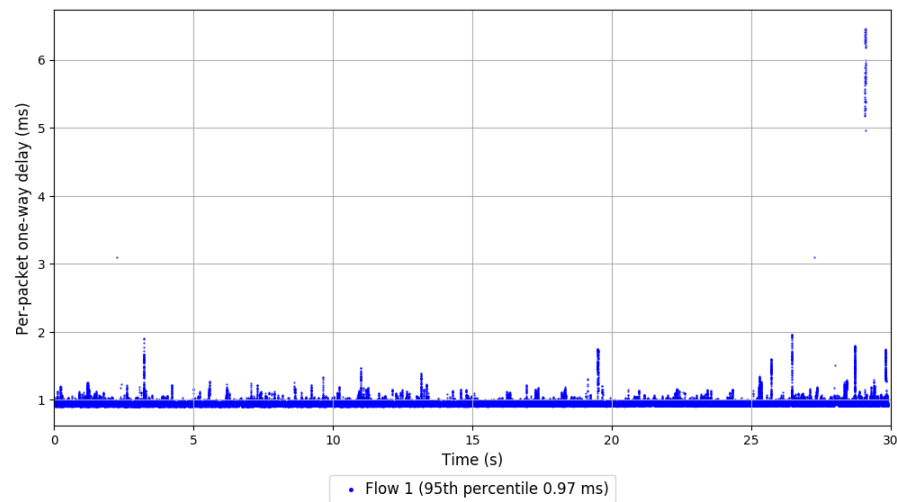
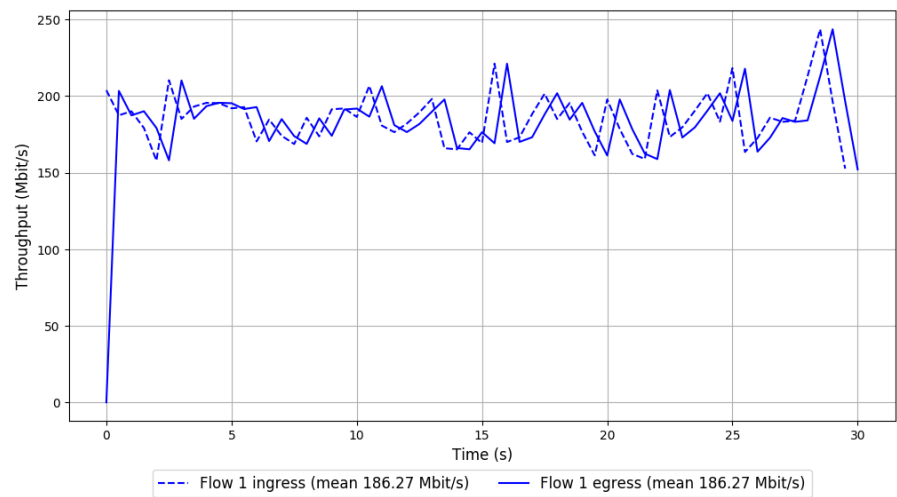
-- Flow 1:

Average throughput: 186.27 Mbit/s

95th percentile per-packet one-way delay: 0.966 ms

Loss rate: 0.01%

Run 4: Report of Indigo — Data Link

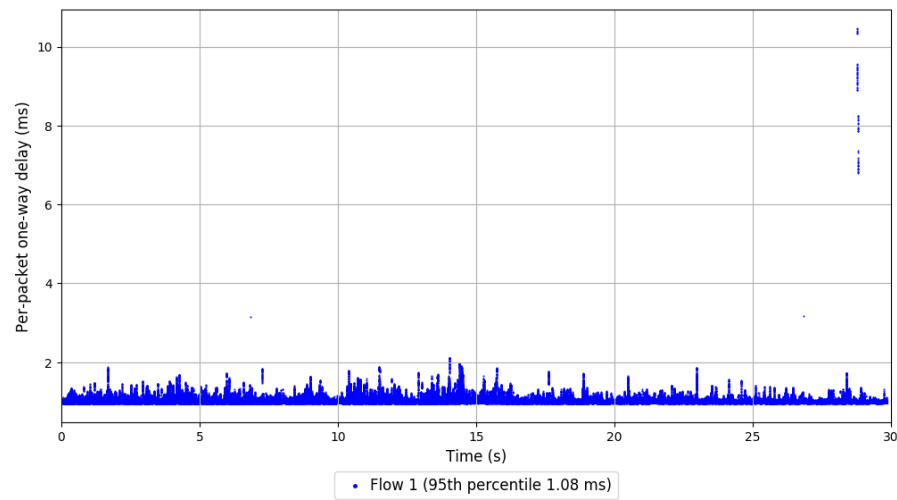
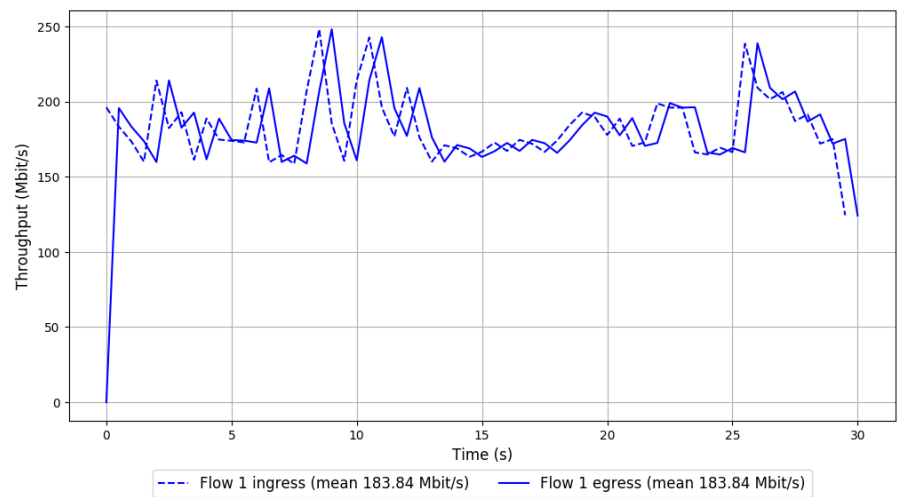


Run 5: Statistics of Indigo

Start at: 2019-02-12 00:52:05
End at: 2019-02-12 00:52:35
Local clock offset: -0.121 ms
Remote clock offset: -2.508 ms

Below is generated by plot.py at 2019-02-12 01:43:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 183.84 Mbit/s
95th percentile per-packet one-way delay: 1.082 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 183.84 Mbit/s
95th percentile per-packet one-way delay: 1.082 ms
Loss rate: 0.01%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-02-11 22:35:10

End at: 2019-02-11 22:35:40

Local clock offset: -3.308 ms

Remote clock offset: -0.59 ms

Below is generated by plot.py at 2019-02-12 01:43:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 269.71 Mbit/s

95th percentile per-packet one-way delay: 0.682 ms

Loss rate: 0.01%

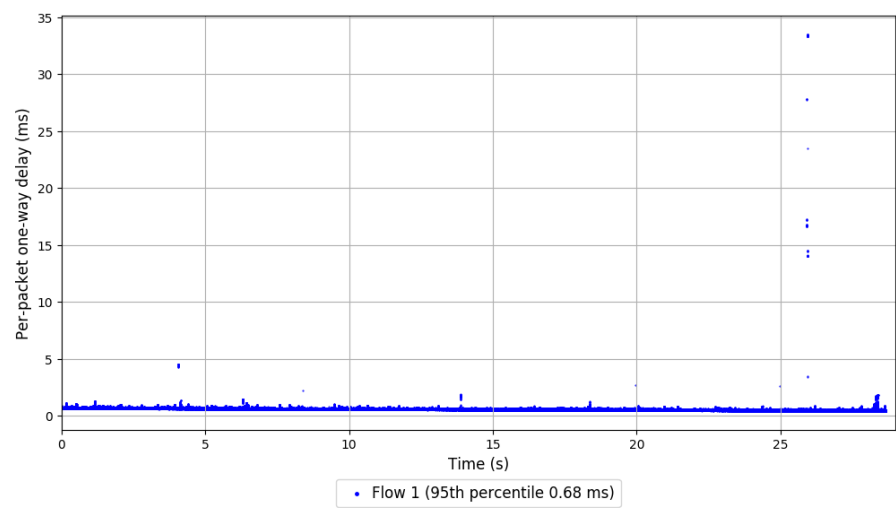
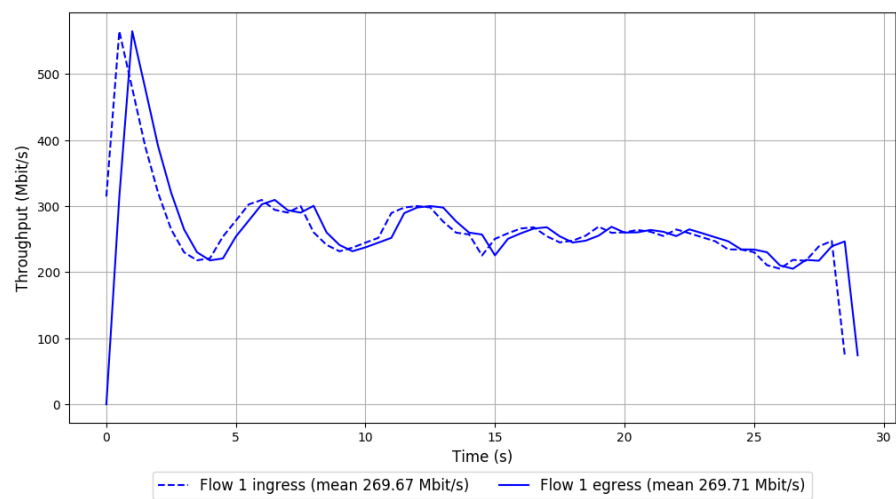
-- Flow 1:

Average throughput: 269.71 Mbit/s

95th percentile per-packet one-way delay: 0.682 ms

Loss rate: 0.01%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-02-11 23:04:42

End at: 2019-02-11 23:05:12

Local clock offset: 0.456 ms

Remote clock offset: 1.872 ms

Below is generated by plot.py at 2019-02-12 01:43:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 237.95 Mbit/s

95th percentile per-packet one-way delay: 1.346 ms

Loss rate: 0.01%

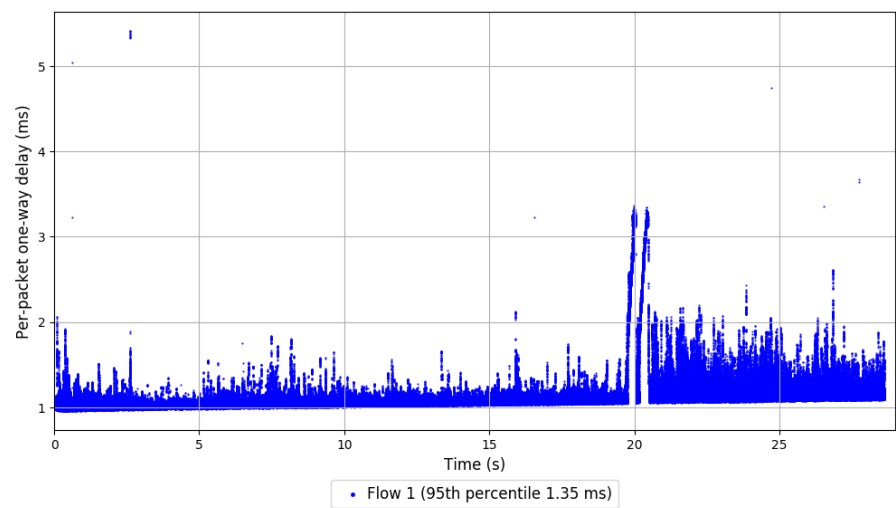
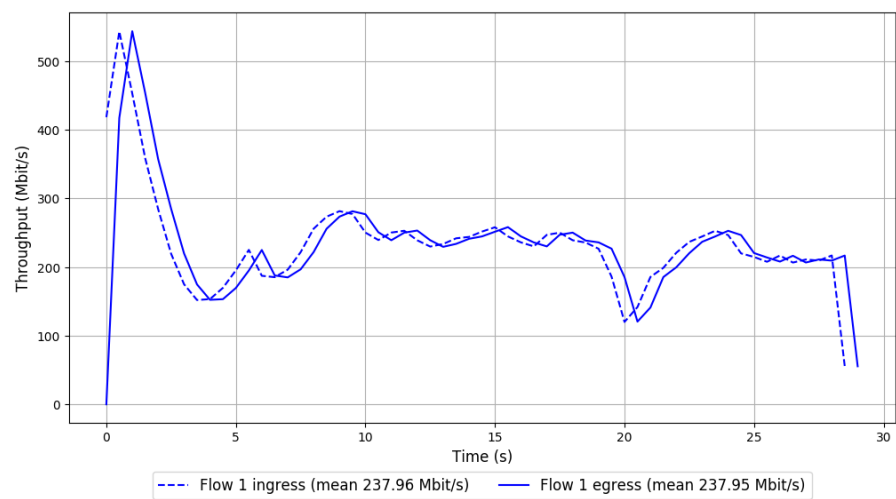
-- Flow 1:

Average throughput: 237.95 Mbit/s

95th percentile per-packet one-way delay: 1.346 ms

Loss rate: 0.01%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-02-11 23:34:19

End at: 2019-02-11 23:34:49

Local clock offset: 0.519 ms

Remote clock offset: 1.833 ms

Below is generated by plot.py at 2019-02-12 01:43:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.01 Mbit/s

95th percentile per-packet one-way delay: 0.695 ms

Loss rate: 0.00%

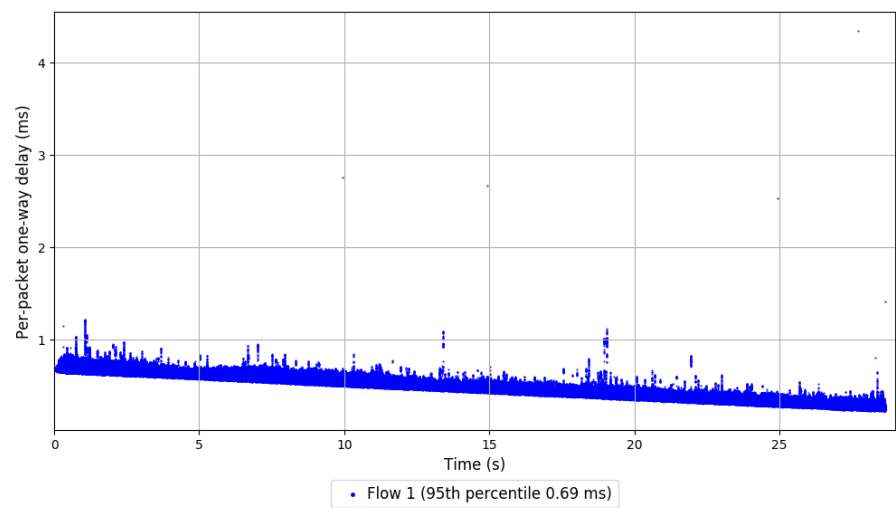
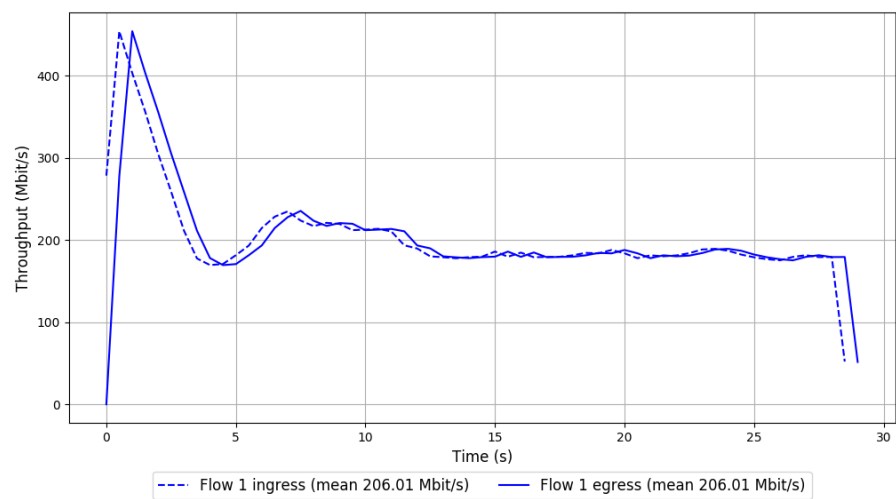
-- Flow 1:

Average throughput: 206.01 Mbit/s

95th percentile per-packet one-way delay: 0.695 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesC3 — Data Link

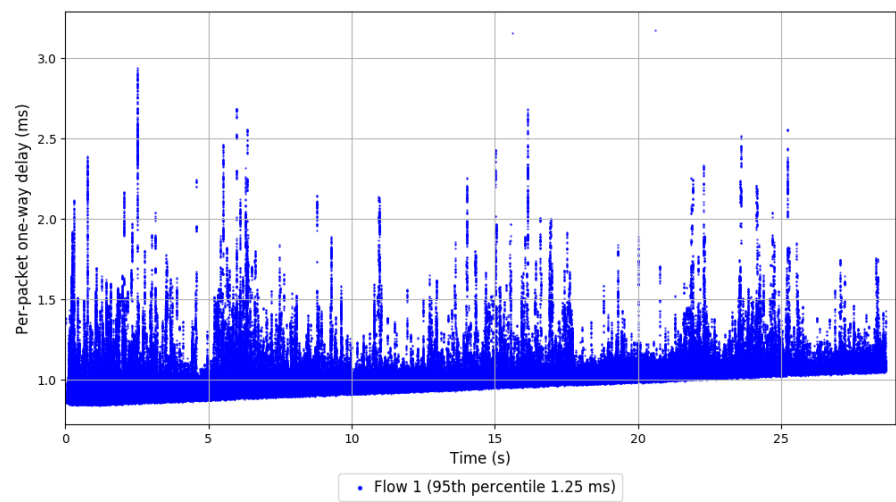
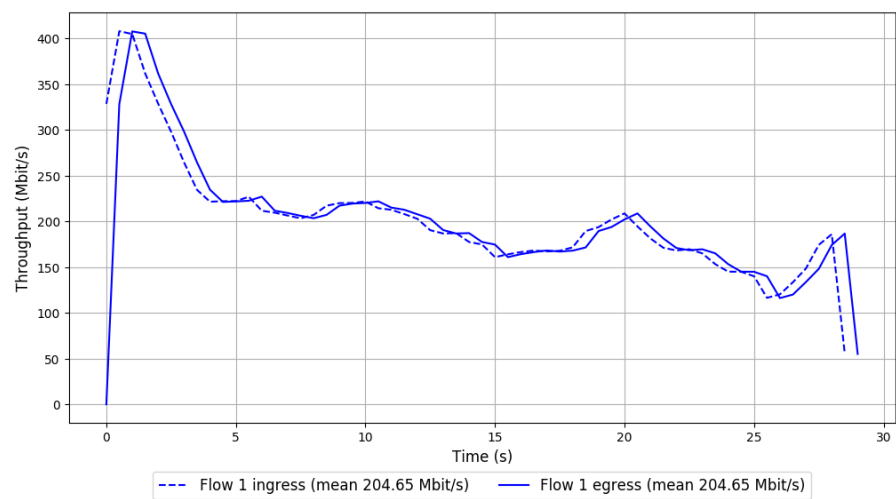


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-02-12 00:03:53
End at: 2019-02-12 00:04:23
Local clock offset: 4.429 ms
Remote clock offset: -4.021 ms

Below is generated by plot.py at 2019-02-12 01:43:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 204.65 Mbit/s
95th percentile per-packet one-way delay: 1.245 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 204.65 Mbit/s
95th percentile per-packet one-way delay: 1.245 ms
Loss rate: 0.01%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-02-12 00:33:08

End at: 2019-02-12 00:33:38

Local clock offset: 5.87 ms

Remote clock offset: 0.432 ms

Below is generated by plot.py at 2019-02-12 01:43:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 273.70 Mbit/s

95th percentile per-packet one-way delay: 1.006 ms

Loss rate: 0.00%

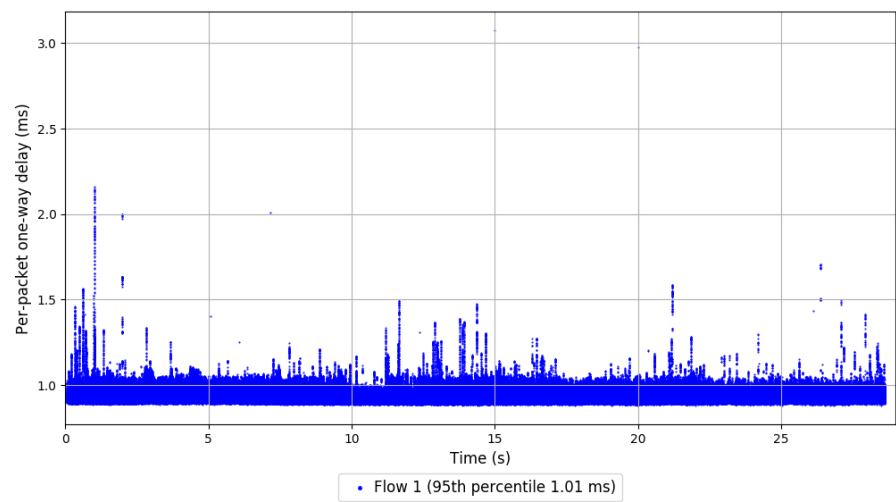
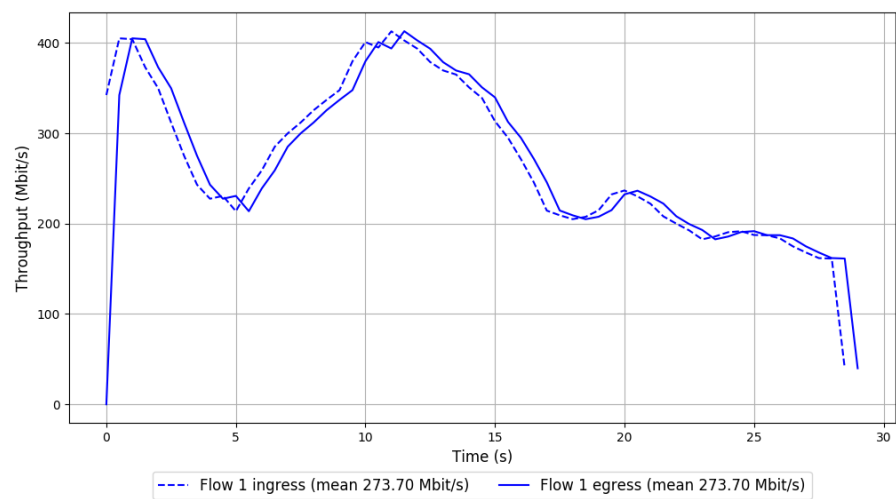
-- Flow 1:

Average throughput: 273.70 Mbit/s

95th percentile per-packet one-way delay: 1.006 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesC3 — Data Link

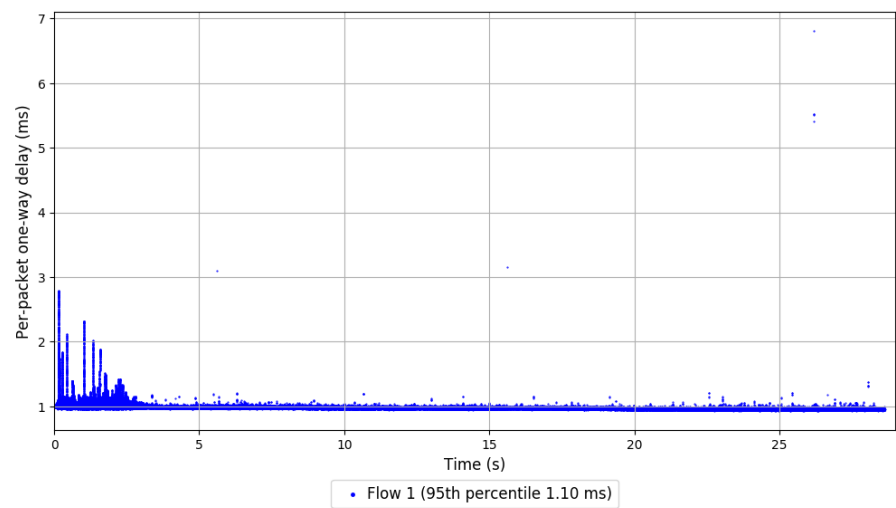
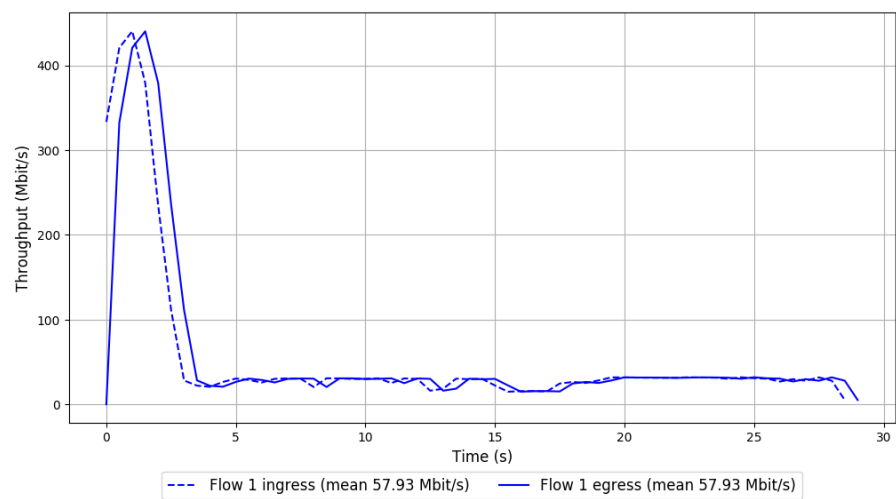


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-02-11 22:32:27
End at: 2019-02-11 22:32:57
Local clock offset: -3.599 ms
Remote clock offset: -0.325 ms

Below is generated by plot.py at 2019-02-12 01:43:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 57.93 Mbit/s
95th percentile per-packet one-way delay: 1.100 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 57.93 Mbit/s
95th percentile per-packet one-way delay: 1.100 ms
Loss rate: 0.00%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-02-11 23:02:04

End at: 2019-02-11 23:02:34

Local clock offset: 0.413 ms

Remote clock offset: 1.057 ms

Below is generated by plot.py at 2019-02-12 01:43:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.91 Mbit/s

95th percentile per-packet one-way delay: 1.182 ms

Loss rate: 0.00%

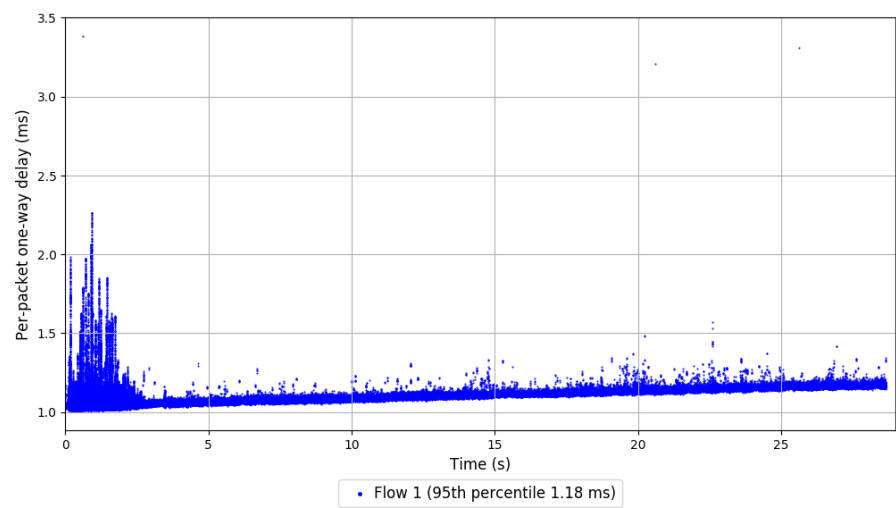
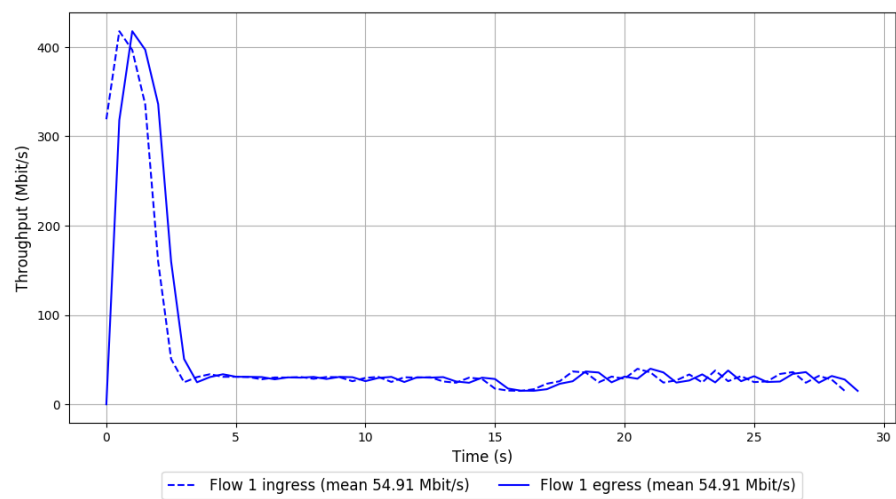
-- Flow 1:

Average throughput: 54.91 Mbit/s

95th percentile per-packet one-way delay: 1.182 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-02-11 23:31:36

End at: 2019-02-11 23:32:06

Local clock offset: 0.49 ms

Remote clock offset: 3.897 ms

Below is generated by plot.py at 2019-02-12 01:43:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 126.37 Mbit/s

95th percentile per-packet one-way delay: 0.692 ms

Loss rate: 0.00%

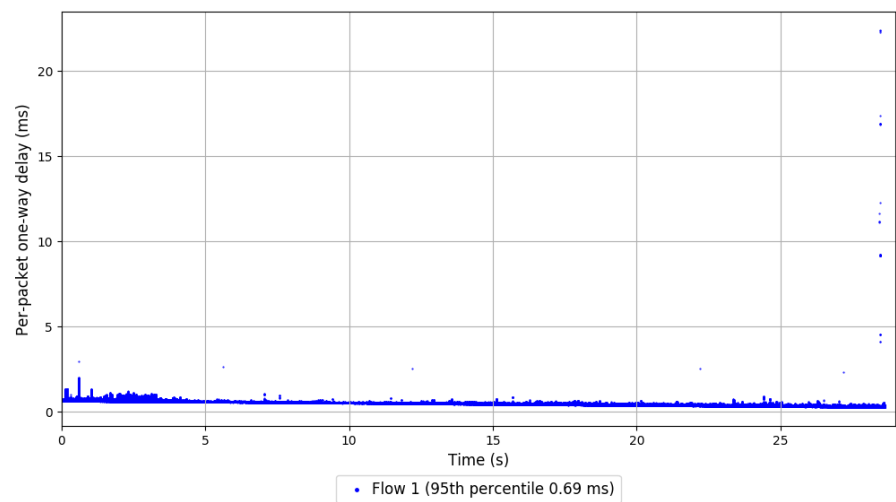
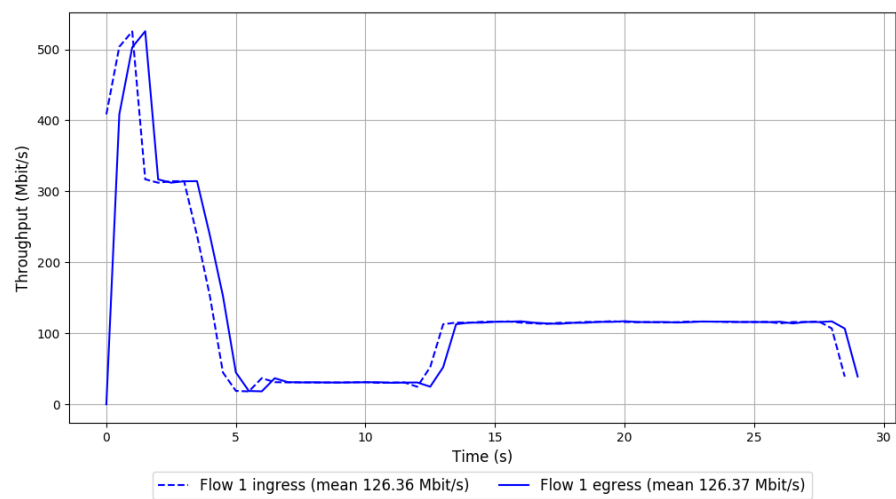
-- Flow 1:

Average throughput: 126.37 Mbit/s

95th percentile per-packet one-way delay: 0.692 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesC5 — Data Link

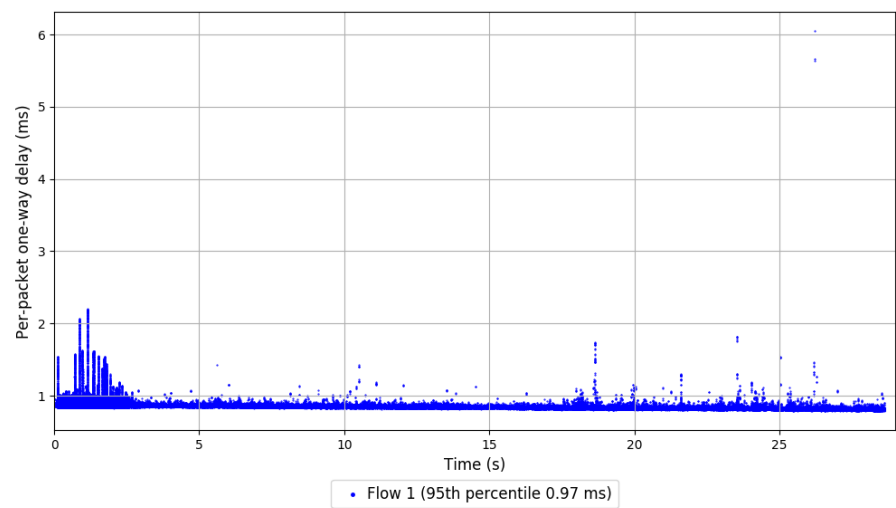
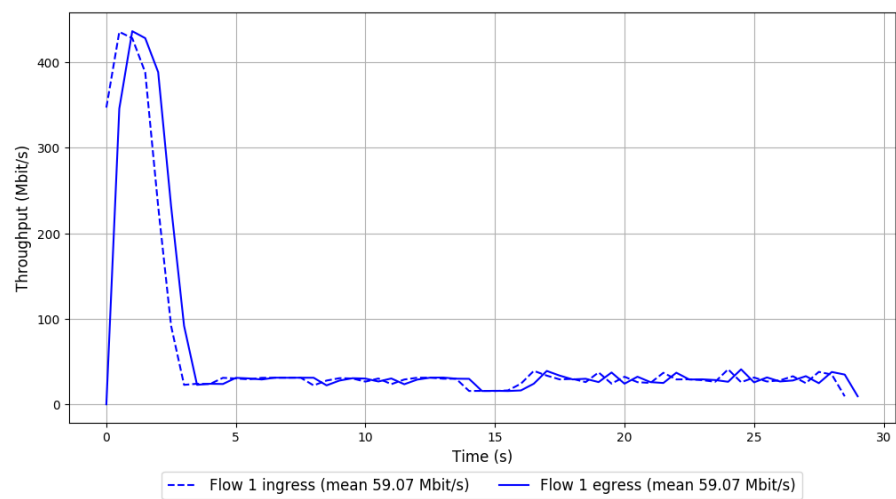


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-02-12 00:01:09
End at: 2019-02-12 00:01:39
Local clock offset: 4.28 ms
Remote clock offset: -3.836 ms

Below is generated by plot.py at 2019-02-12 01:43:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 59.07 Mbit/s
95th percentile per-packet one-way delay: 0.967 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.07 Mbit/s
95th percentile per-packet one-way delay: 0.967 ms
Loss rate: 0.00%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-02-12 00:30:22

End at: 2019-02-12 00:30:52

Local clock offset: 5.722 ms

Remote clock offset: 0.25 ms

Below is generated by plot.py at 2019-02-12 01:43:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.14 Mbit/s

95th percentile per-packet one-way delay: 1.061 ms

Loss rate: 0.00%

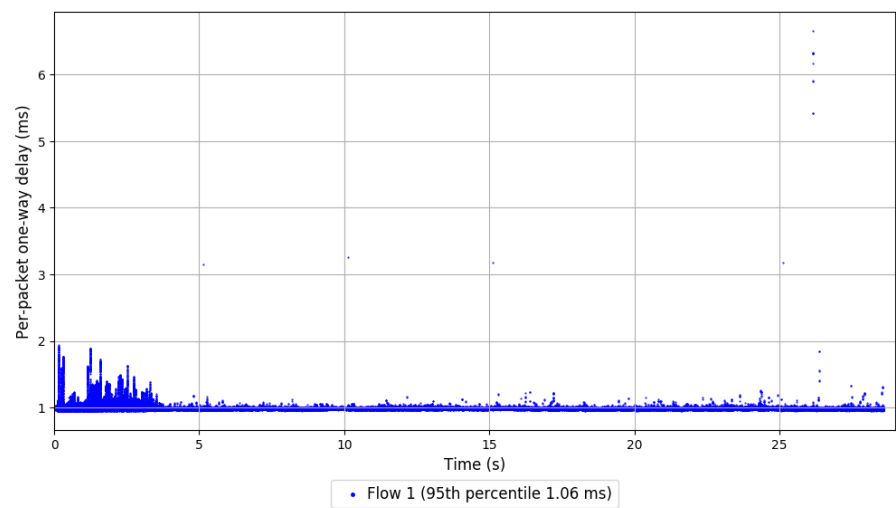
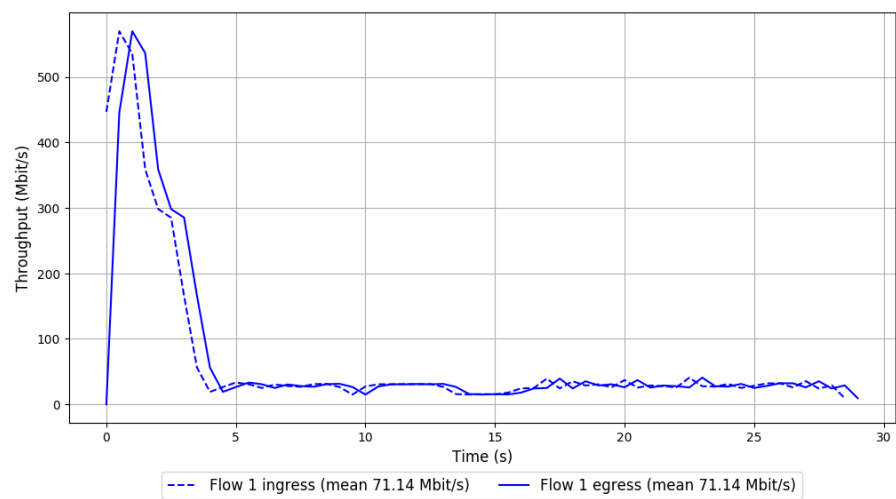
-- Flow 1:

Average throughput: 71.14 Mbit/s

95th percentile per-packet one-way delay: 1.061 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesC5 — Data Link

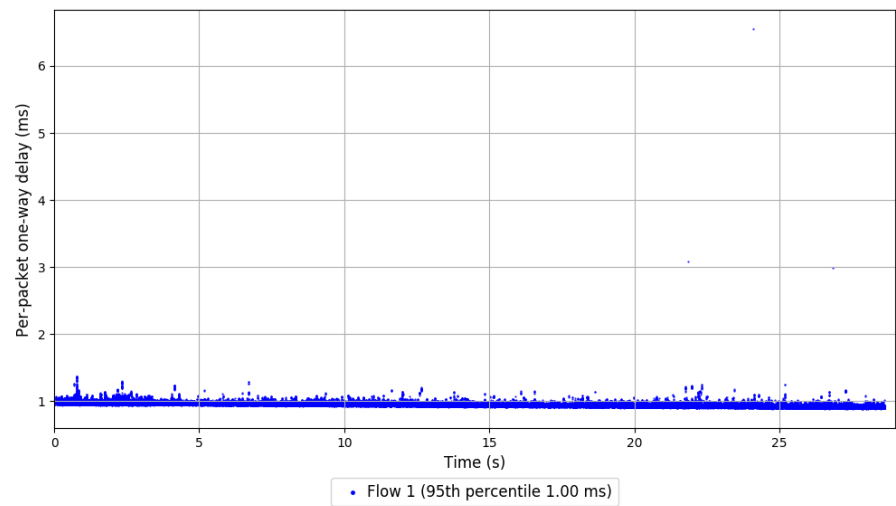
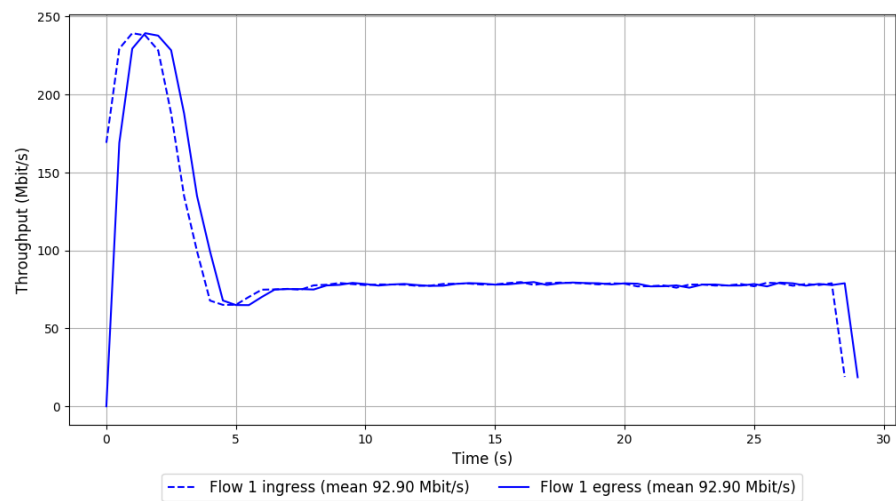



```
Run 1: Statistics of Indigo-MusesD

Start at: 2019-02-11 22:48:18
End at: 2019-02-11 22:48:48
Local clock offset: -0.396 ms
Remote clock offset: -1.53 ms

# Below is generated by plot.py at 2019-02-12 01:43:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.90 Mbit/s
95th percentile per-packet one-way delay: 0.998 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 92.90 Mbit/s
95th percentile per-packet one-way delay: 0.998 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-02-11 23:17:42

End at: 2019-02-11 23:18:12

Local clock offset: 0.432 ms

Remote clock offset: 4.039 ms

Below is generated by plot.py at 2019-02-12 01:43:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.09 Mbit/s

95th percentile per-packet one-way delay: 1.066 ms

Loss rate: 0.00%

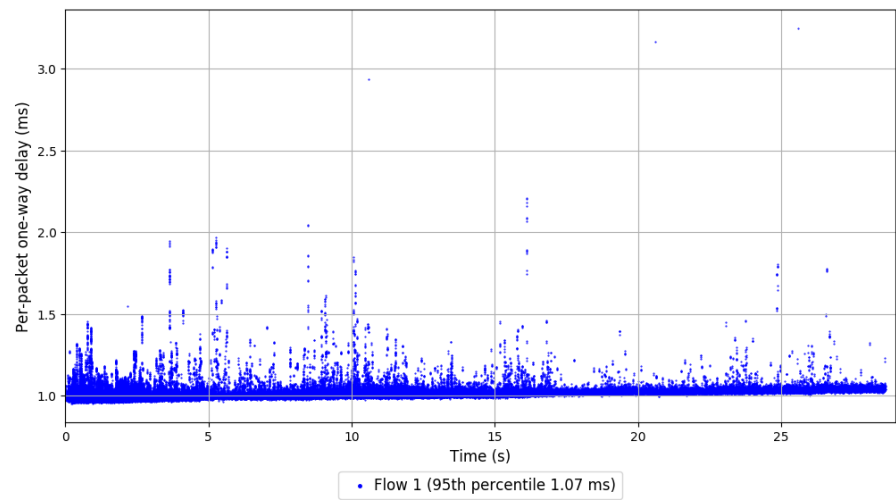
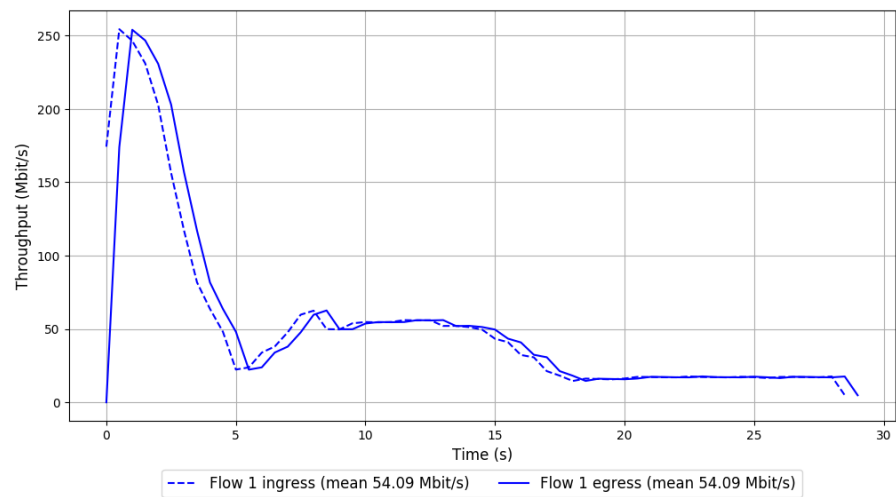
-- Flow 1:

Average throughput: 54.09 Mbit/s

95th percentile per-packet one-way delay: 1.066 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-02-11 23:47:14

End at: 2019-02-11 23:47:44

Local clock offset: 3.14 ms

Remote clock offset: -2.347 ms

Below is generated by plot.py at 2019-02-12 01:43:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.30 Mbit/s

95th percentile per-packet one-way delay: 0.821 ms

Loss rate: 0.00%

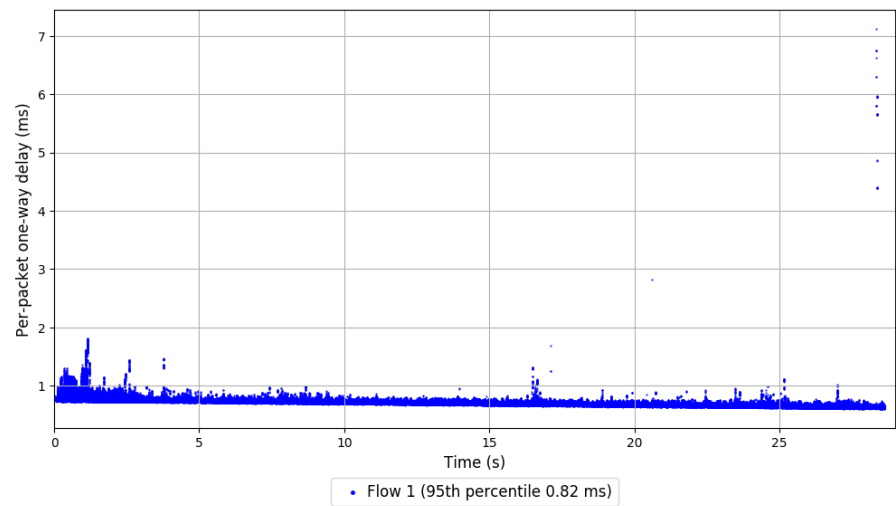
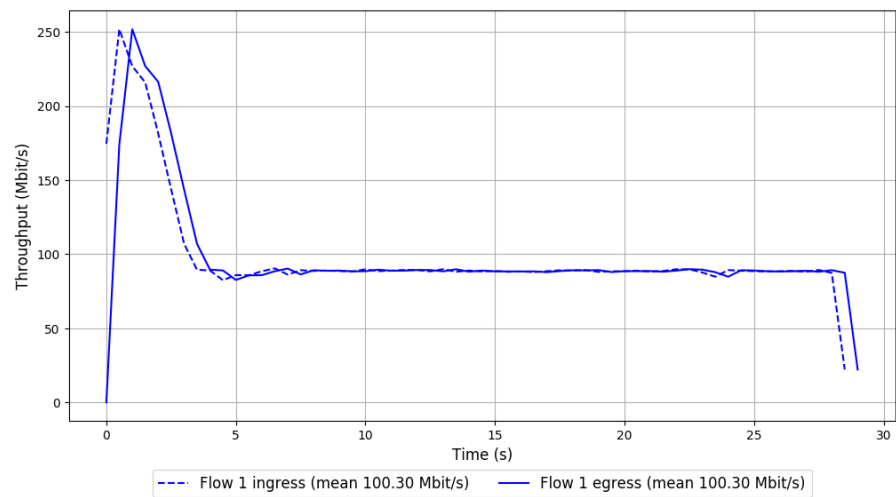
-- Flow 1:

Average throughput: 100.30 Mbit/s

95th percentile per-packet one-way delay: 0.821 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-02-12 00:16:37

End at: 2019-02-12 00:17:07

Local clock offset: 5.084 ms

Remote clock offset: -0.642 ms

Below is generated by plot.py at 2019-02-12 01:43:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.74 Mbit/s

95th percentile per-packet one-way delay: 1.018 ms

Loss rate: 0.00%

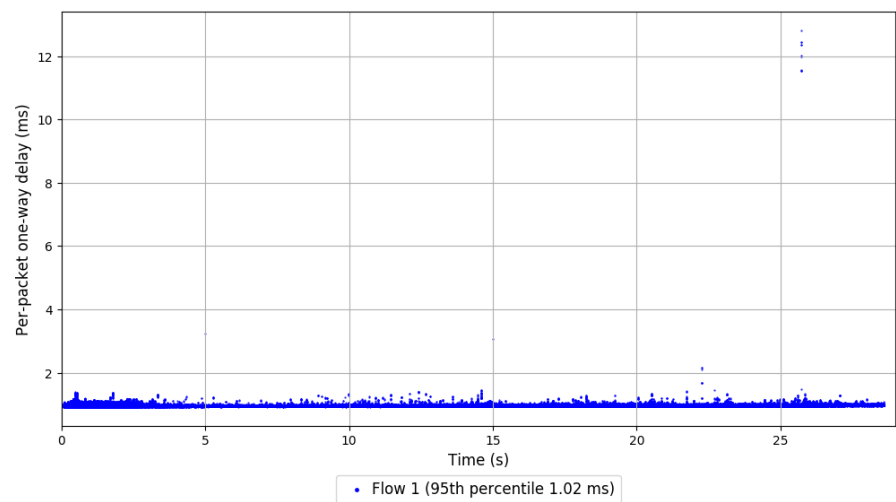
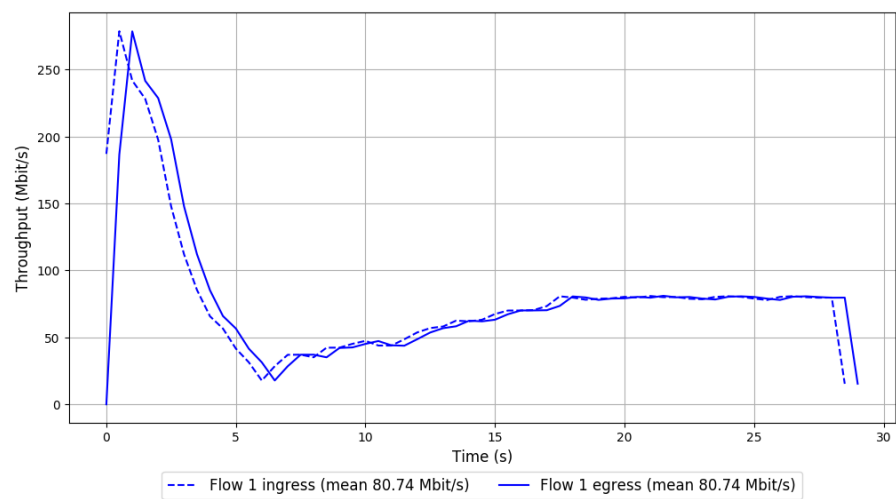
-- Flow 1:

Average throughput: 80.74 Mbit/s

95th percentile per-packet one-way delay: 1.018 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesD — Data Link

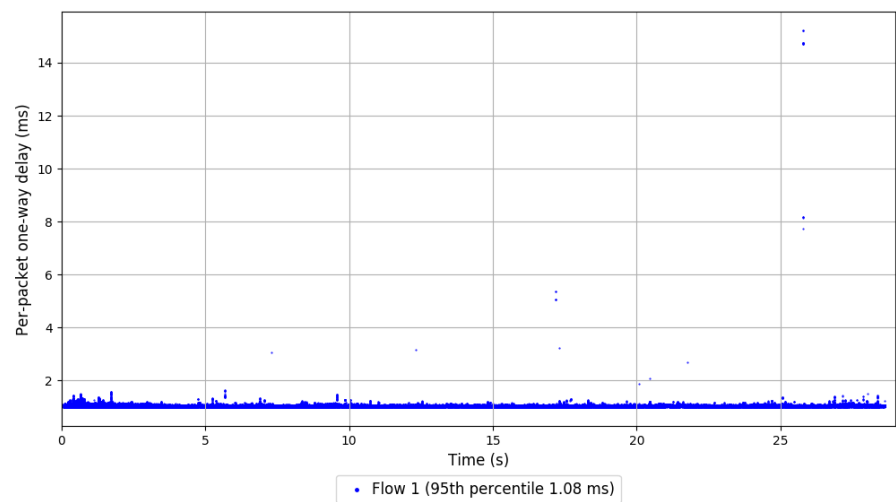
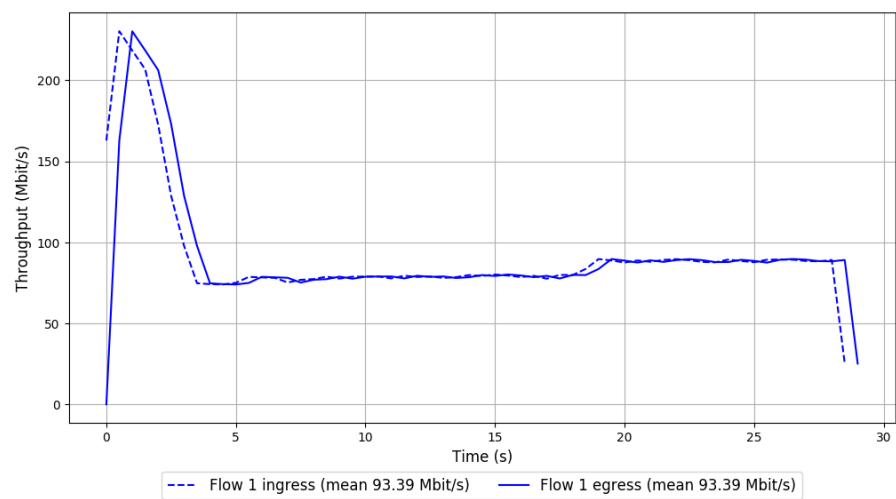


Run 5: Statistics of Indigo-MusesD

Start at: 2019-02-12 00:46:11
End at: 2019-02-12 00:46:41
Local clock offset: 0.97 ms
Remote clock offset: -1.544 ms

Below is generated by plot.py at 2019-02-12 01:43:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.39 Mbit/s
95th percentile per-packet one-way delay: 1.076 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 93.39 Mbit/s
95th percentile per-packet one-way delay: 1.076 ms
Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link

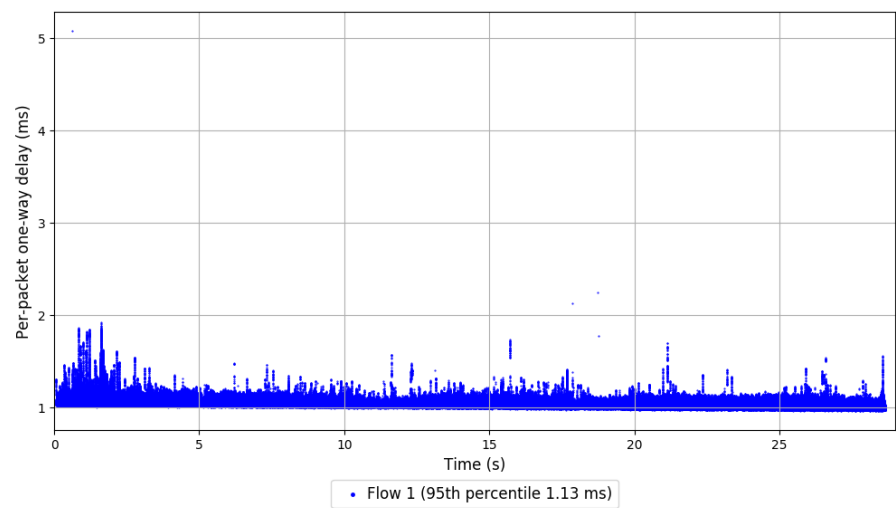
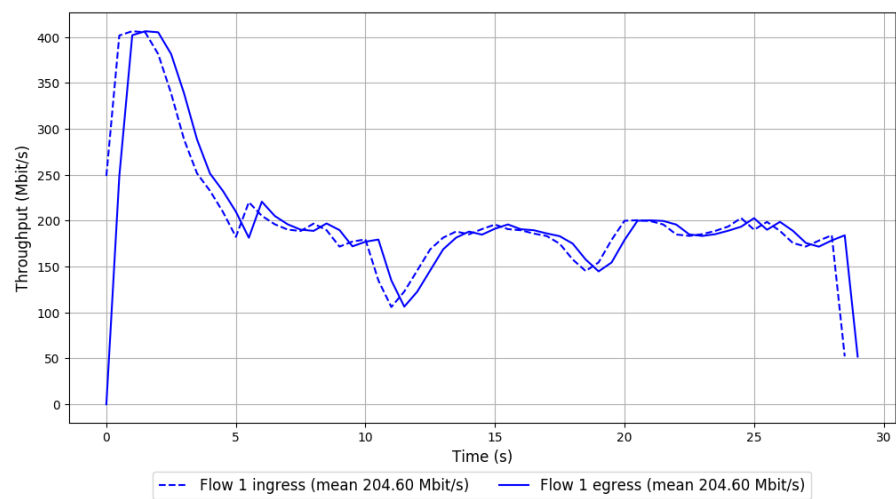


```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-02-11 22:31:08
End at: 2019-02-11 22:31:38
Local clock offset: -3.516 ms
Remote clock offset: -0.164 ms

# Below is generated by plot.py at 2019-02-12 01:43:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 204.60 Mbit/s
95th percentile per-packet one-way delay: 1.134 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 204.60 Mbit/s
95th percentile per-packet one-way delay: 1.134 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-02-11 23:00:44

End at: 2019-02-11 23:01:14

Local clock offset: 0.311 ms

Remote clock offset: 0.608 ms

Below is generated by plot.py at 2019-02-12 01:43:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.48 Mbit/s

95th percentile per-packet one-way delay: 1.184 ms

Loss rate: 0.01%

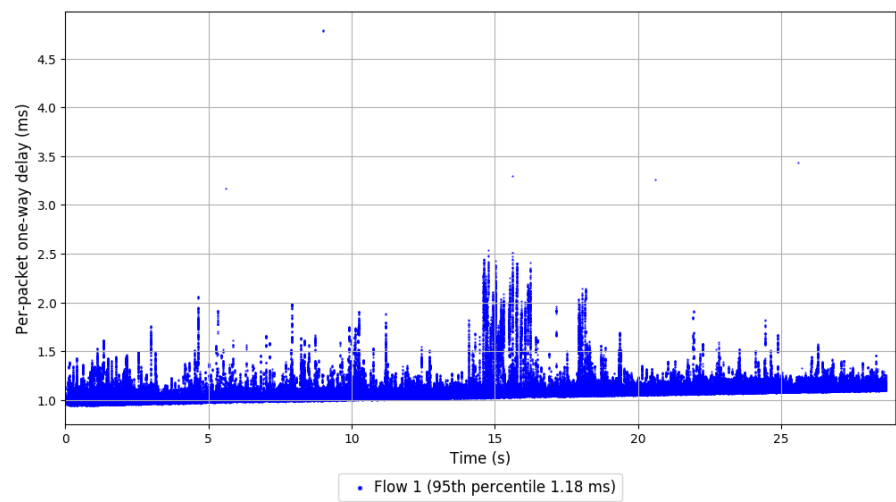
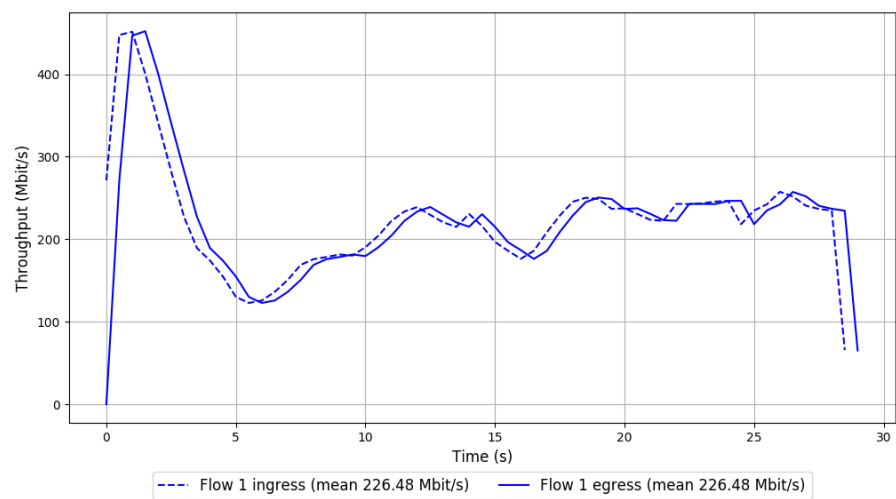
-- Flow 1:

Average throughput: 226.48 Mbit/s

95th percentile per-packet one-way delay: 1.184 ms

Loss rate: 0.01%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-02-11 23:30:15

End at: 2019-02-11 23:30:45

Local clock offset: 0.49 ms

Remote clock offset: 4.875 ms

Below is generated by plot.py at 2019-02-12 01:43:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 259.53 Mbit/s

95th percentile per-packet one-way delay: 0.853 ms

Loss rate: 0.01%

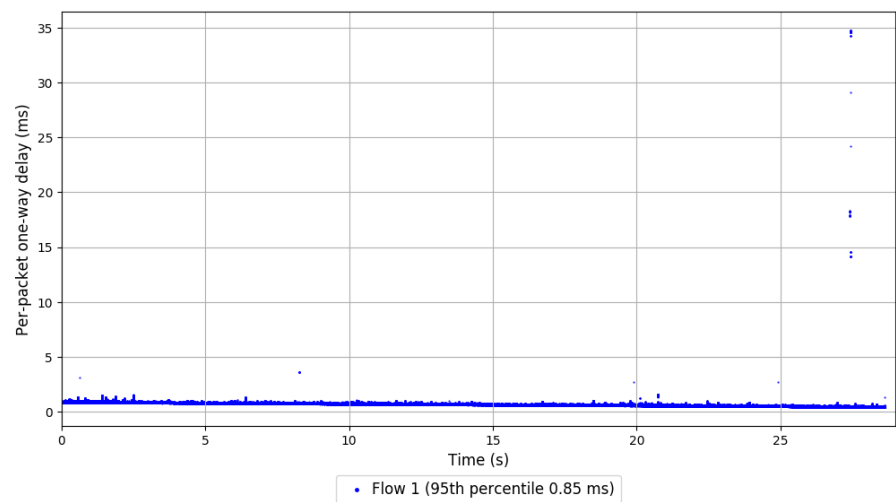
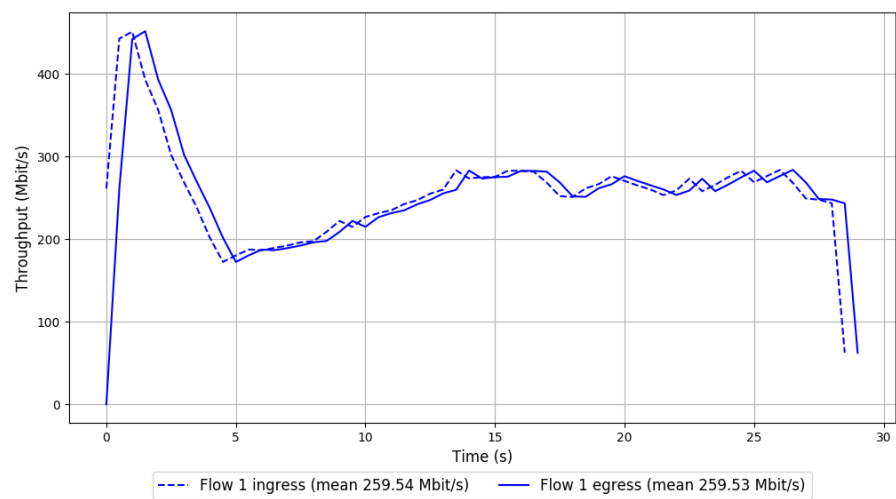
-- Flow 1:

Average throughput: 259.53 Mbit/s

95th percentile per-packet one-way delay: 0.853 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesT — Data Link

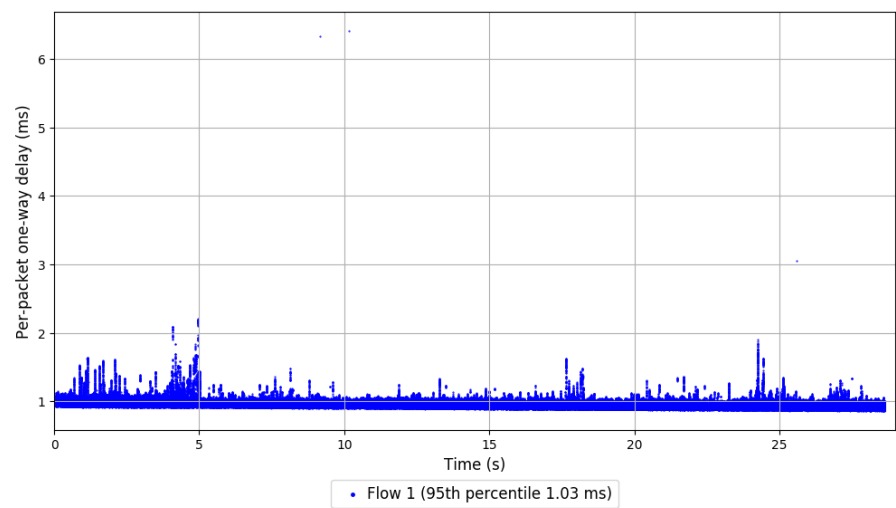
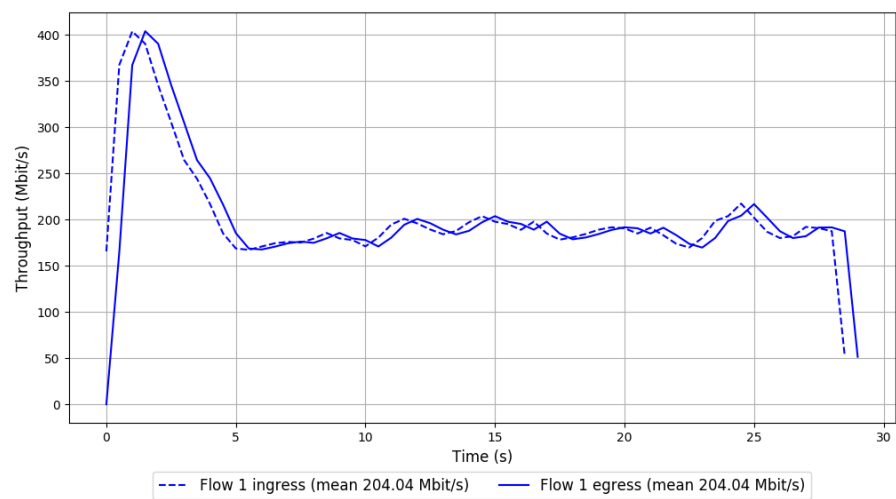


Run 4: Statistics of Indigo-MusesT

Start at: 2019-02-11 23:59:49
End at: 2019-02-12 00:00:19
Local clock offset: 4.197 ms
Remote clock offset: -3.842 ms

Below is generated by plot.py at 2019-02-12 01:43:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 204.04 Mbit/s
95th percentile per-packet one-way delay: 1.034 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 204.04 Mbit/s
95th percentile per-packet one-way delay: 1.034 ms
Loss rate: 0.01%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-02-12 00:29:02

End at: 2019-02-12 00:29:32

Local clock offset: 5.668 ms

Remote clock offset: 0.323 ms

Below is generated by plot.py at 2019-02-12 01:43:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.91 Mbit/s

95th percentile per-packet one-way delay: 0.954 ms

Loss rate: 0.01%

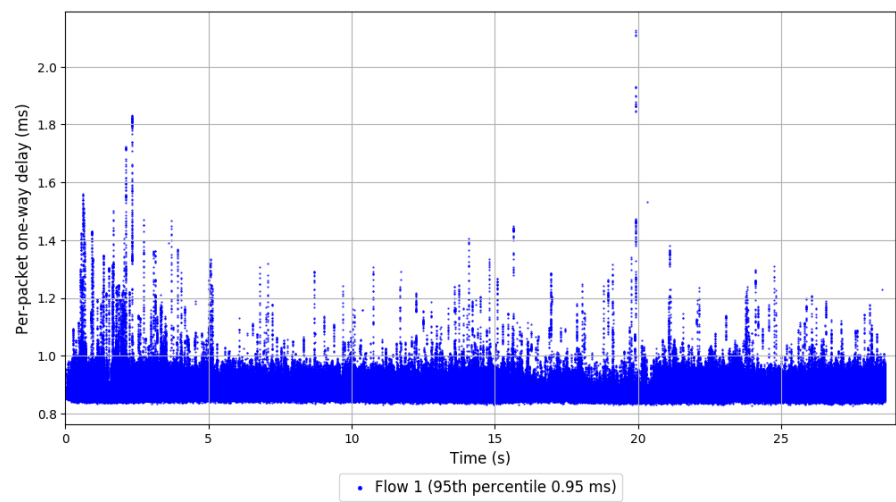
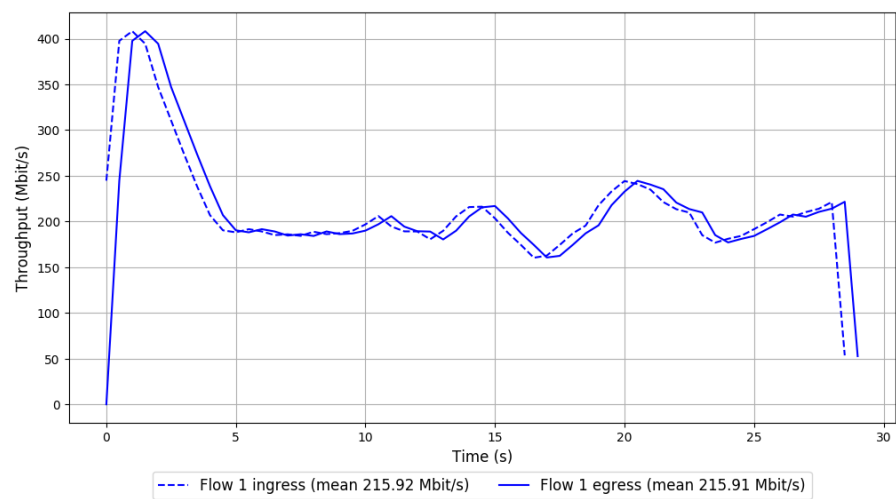
-- Flow 1:

Average throughput: 215.91 Mbit/s

95th percentile per-packet one-way delay: 0.954 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesT — Data Link

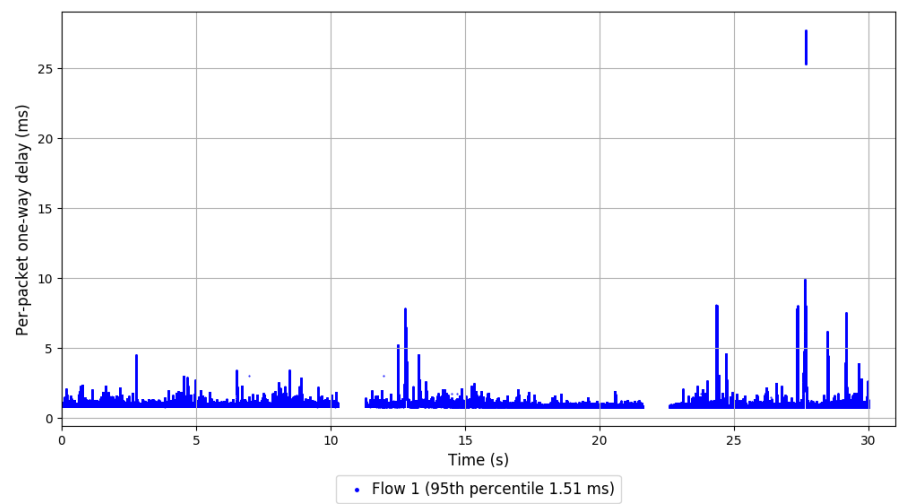
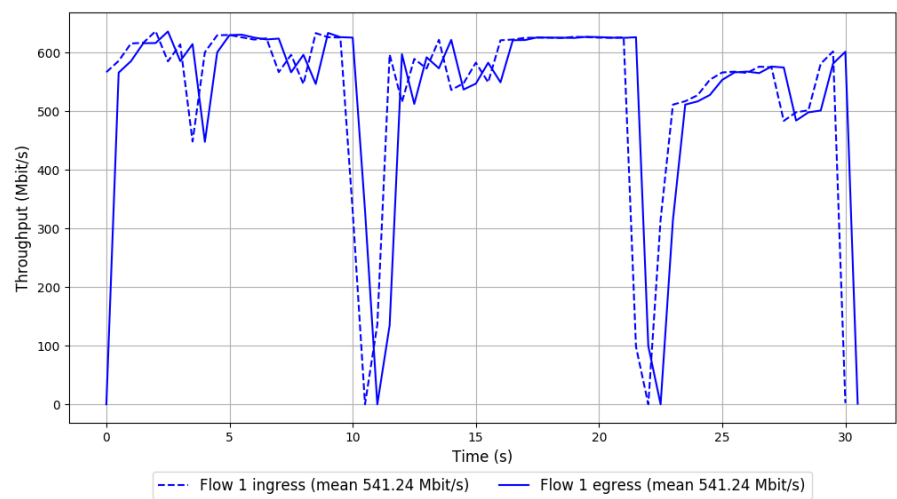


Run 1: Statistics of LEDBAT

Start at: 2019-02-11 22:50:57
End at: 2019-02-11 22:51:27
Local clock offset: -0.188 ms
Remote clock offset: -1.552 ms

Below is generated by plot.py at 2019-02-12 01:44:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 541.24 Mbit/s
95th percentile per-packet one-way delay: 1.515 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 541.24 Mbit/s
95th percentile per-packet one-way delay: 1.515 ms
Loss rate: 0.01%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-02-11 23:20:18

End at: 2019-02-11 23:20:48

Local clock offset: 0.422 ms

Remote clock offset: 4.323 ms

Below is generated by plot.py at 2019-02-12 01:45:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 588.98 Mbit/s

95th percentile per-packet one-way delay: 1.939 ms

Loss rate: 0.00%

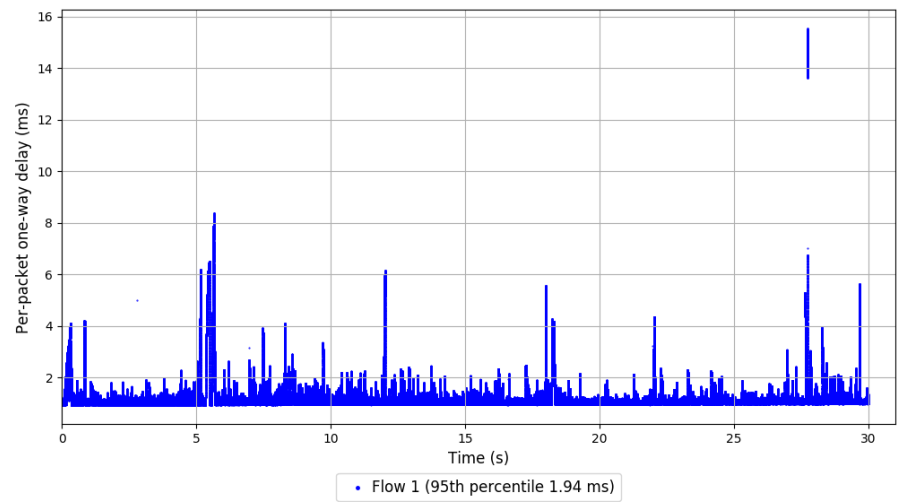
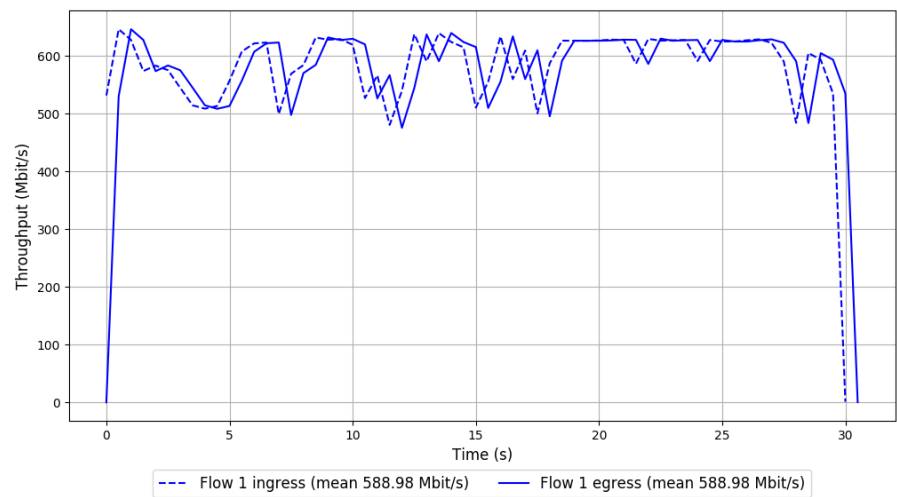
-- Flow 1:

Average throughput: 588.98 Mbit/s

95th percentile per-packet one-way delay: 1.939 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

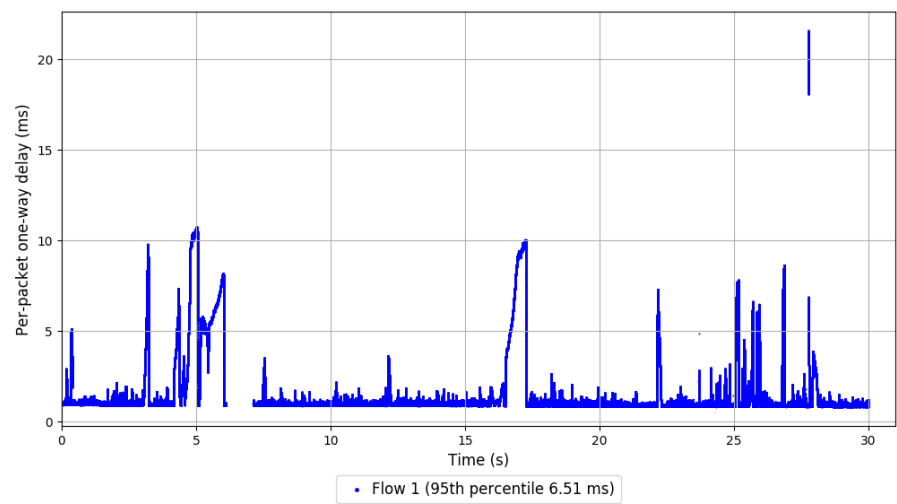
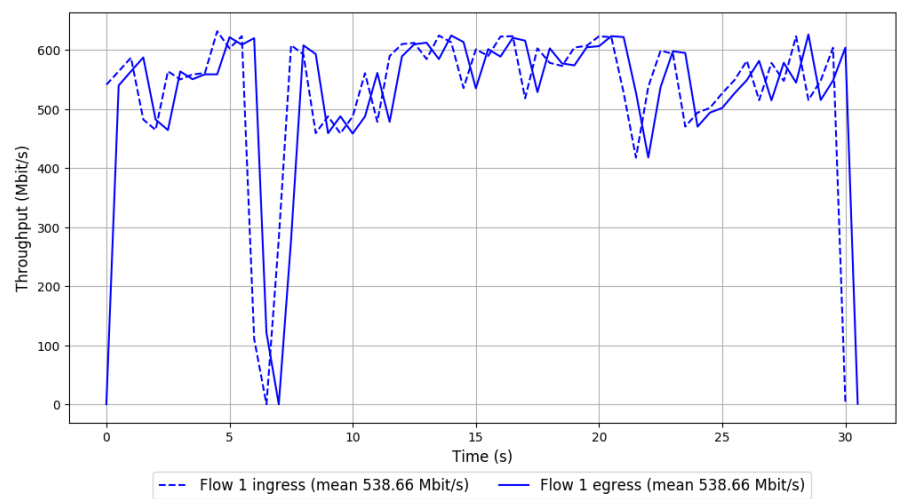


Run 3: Statistics of LEDBAT

Start at: 2019-02-11 23:49:56
End at: 2019-02-11 23:50:26
Local clock offset: 3.438 ms
Remote clock offset: -2.913 ms

Below is generated by plot.py at 2019-02-12 01:46:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 538.66 Mbit/s
95th percentile per-packet one-way delay: 6.507 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 538.66 Mbit/s
95th percentile per-packet one-way delay: 6.507 ms
Loss rate: 0.01%

Run 3: Report of LEDBAT — Data Link

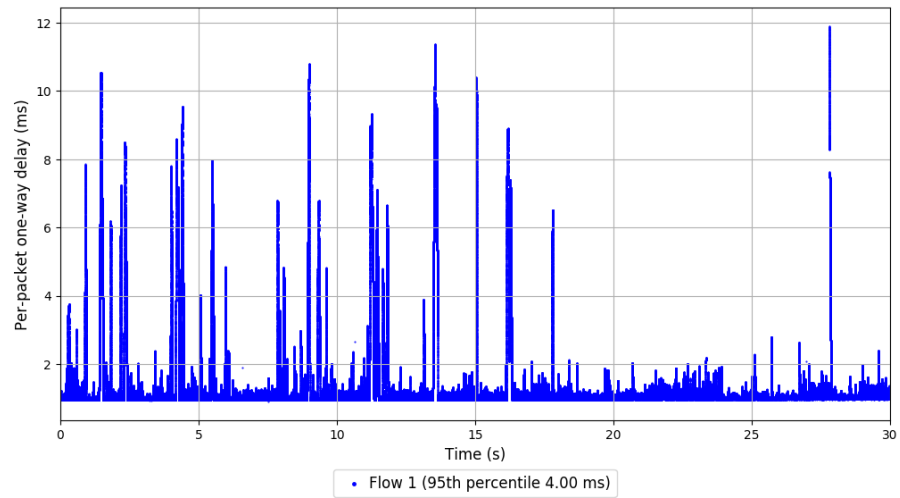
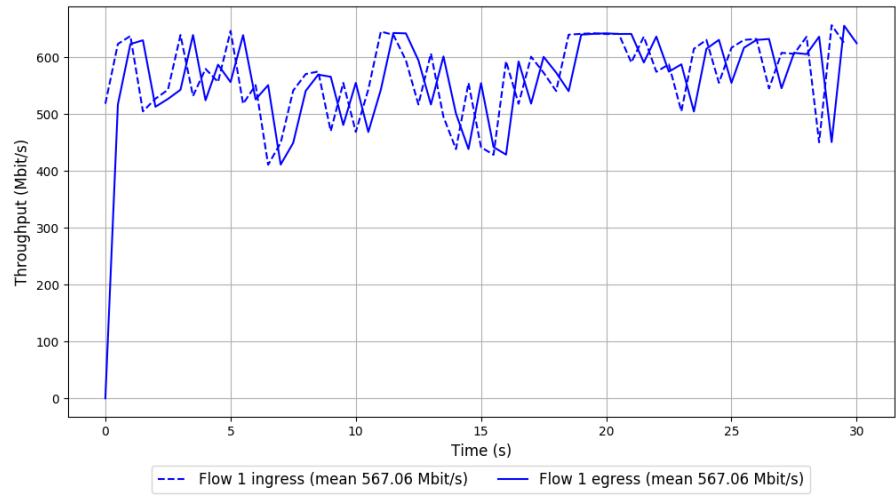


Run 4: Statistics of LEDBAT

Start at: 2019-02-12 00:19:13
End at: 2019-02-12 00:19:43
Local clock offset: 5.196 ms
Remote clock offset: -0.403 ms

Below is generated by plot.py at 2019-02-12 01:46:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 567.06 Mbit/s
95th percentile per-packet one-way delay: 4.002 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 567.06 Mbit/s
95th percentile per-packet one-way delay: 4.002 ms
Loss rate: 0.01%

Run 4: Report of LEDBAT — Data Link

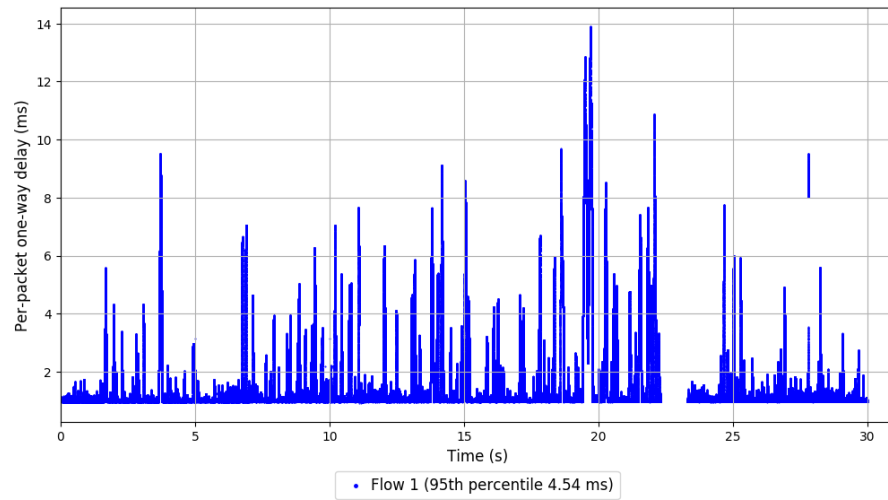
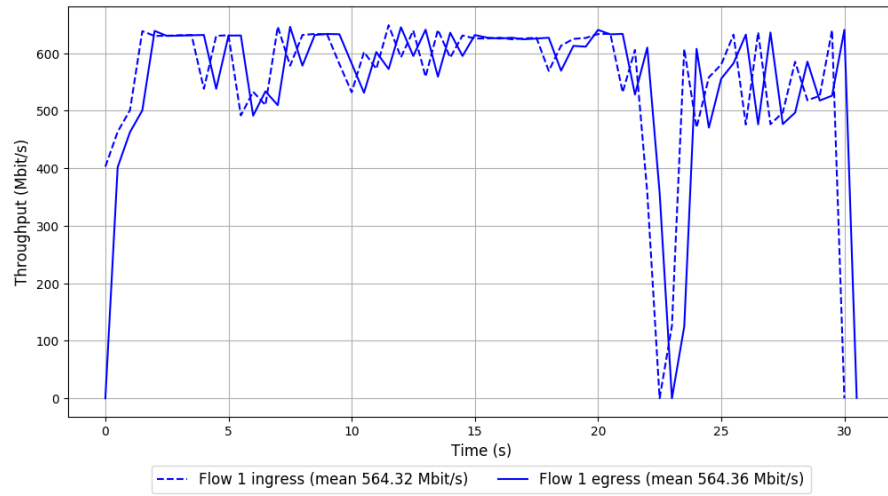


Run 5: Statistics of LEDBAT

Start at: 2019-02-12 00:48:49
End at: 2019-02-12 00:49:19
Local clock offset: 0.363 ms
Remote clock offset: -2.075 ms

Below is generated by plot.py at 2019-02-12 01:46:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 564.36 Mbit/s
95th percentile per-packet one-way delay: 4.538 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 564.36 Mbit/s
95th percentile per-packet one-way delay: 4.538 ms
Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-02-11 22:33:42

End at: 2019-02-11 22:34:12

Local clock offset: -3.658 ms

Remote clock offset: -0.406 ms

Below is generated by plot.py at 2019-02-12 01:47:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 645.67 Mbit/s

95th percentile per-packet one-way delay: 1.180 ms

Loss rate: 0.00%

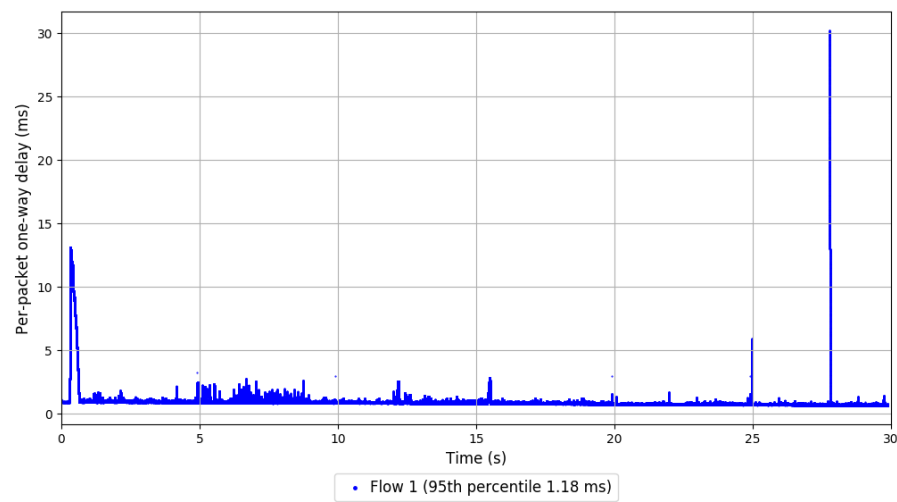
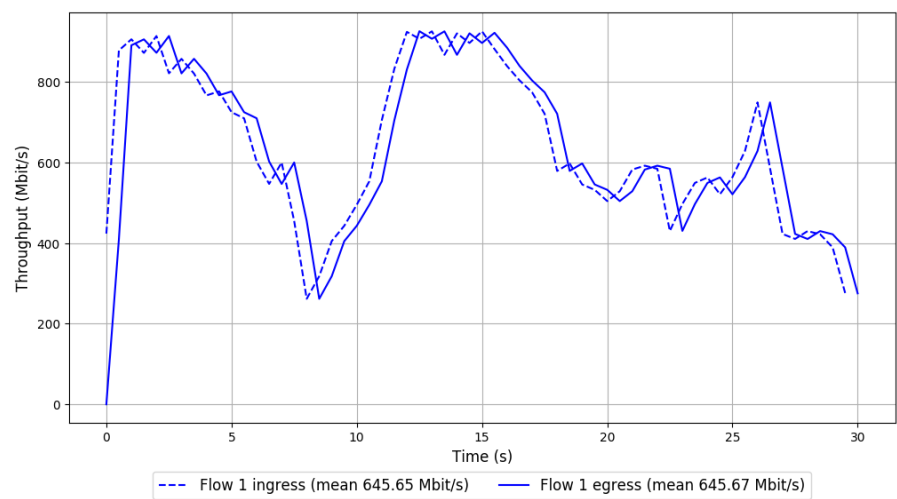
-- Flow 1:

Average throughput: 645.67 Mbit/s

95th percentile per-packet one-way delay: 1.180 ms

Loss rate: 0.00%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-02-11 23:03:19

End at: 2019-02-11 23:03:49

Local clock offset: 0.427 ms

Remote clock offset: 1.403 ms

Below is generated by plot.py at 2019-02-12 01:47:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 453.07 Mbit/s

95th percentile per-packet one-way delay: 1.387 ms

Loss rate: 0.01%

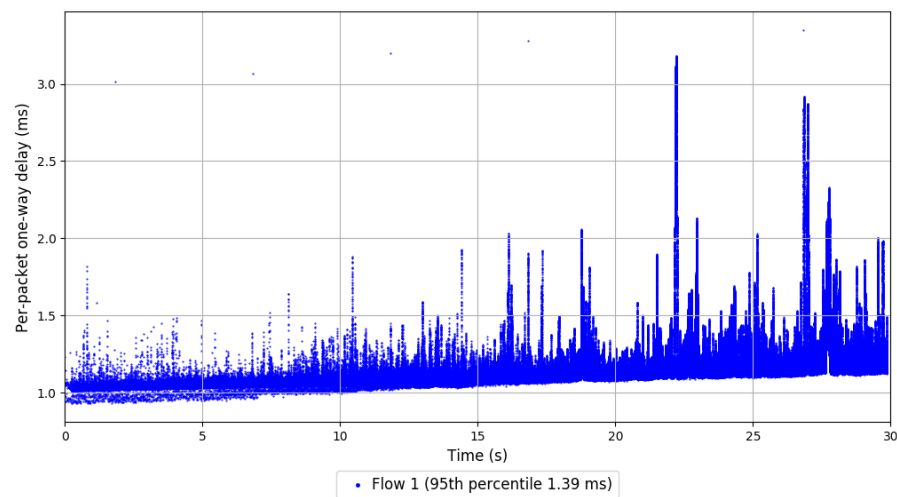
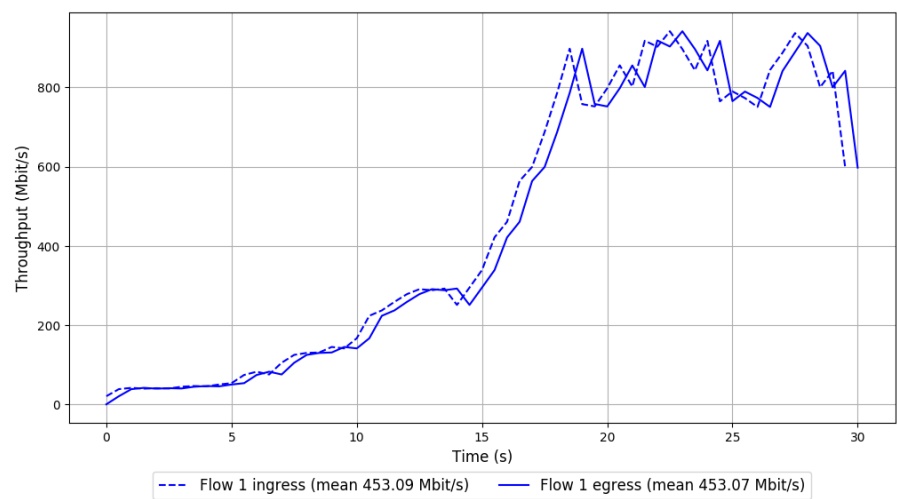
-- Flow 1:

Average throughput: 453.07 Mbit/s

95th percentile per-packet one-way delay: 1.387 ms

Loss rate: 0.01%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-02-11 23:32:53

End at: 2019-02-11 23:33:23

Local clock offset: 0.495 ms

Remote clock offset: 2.746 ms

Below is generated by plot.py at 2019-02-12 01:49:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 561.46 Mbit/s

95th percentile per-packet one-way delay: 0.928 ms

Loss rate: 0.00%

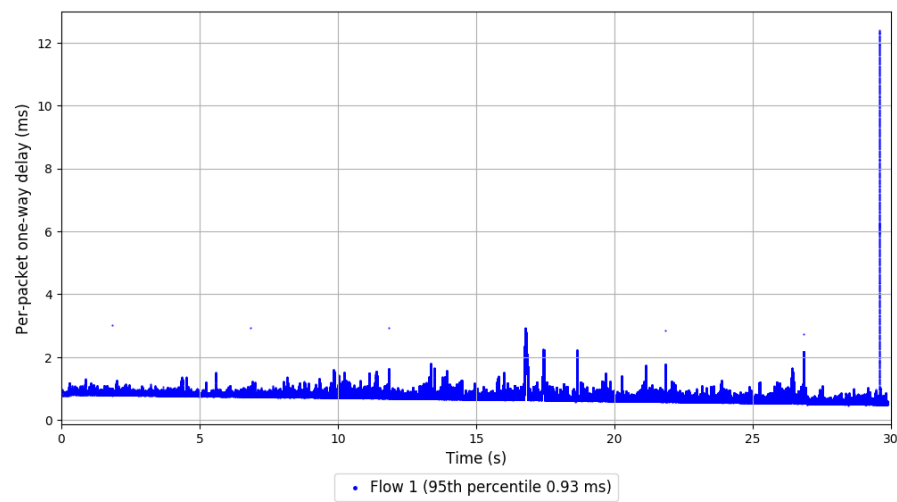
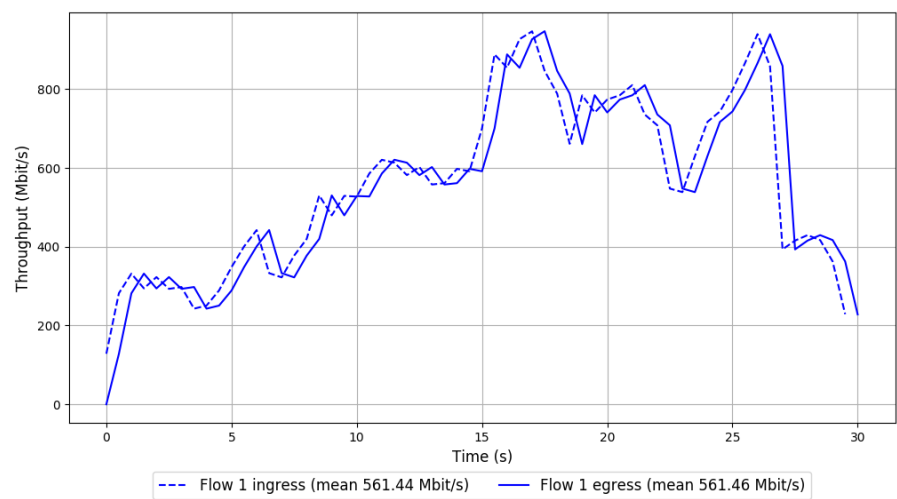
-- Flow 1:

Average throughput: 561.46 Mbit/s

95th percentile per-packet one-way delay: 0.928 ms

Loss rate: 0.00%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-02-12 00:02:24

End at: 2019-02-12 00:02:54

Local clock offset: 4.335 ms

Remote clock offset: -3.907 ms

Below is generated by plot.py at 2019-02-12 01:52:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 673.66 Mbit/s

95th percentile per-packet one-way delay: 0.998 ms

Loss rate: 0.01%

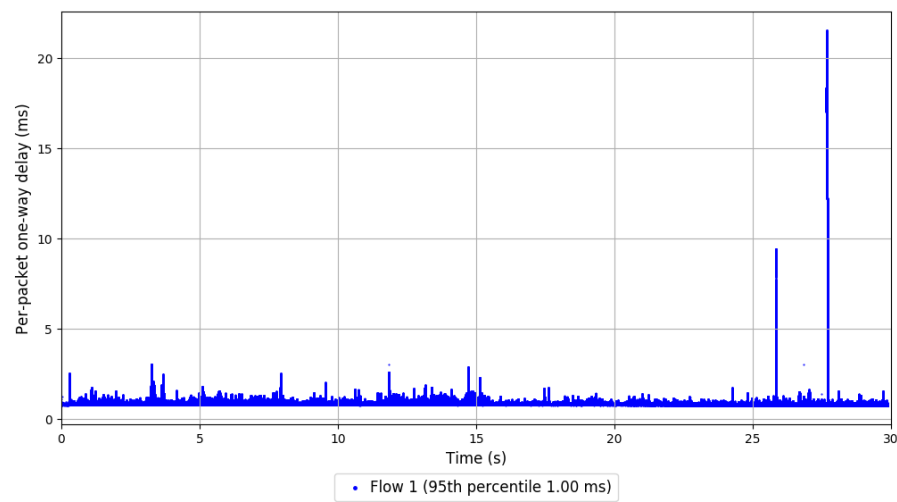
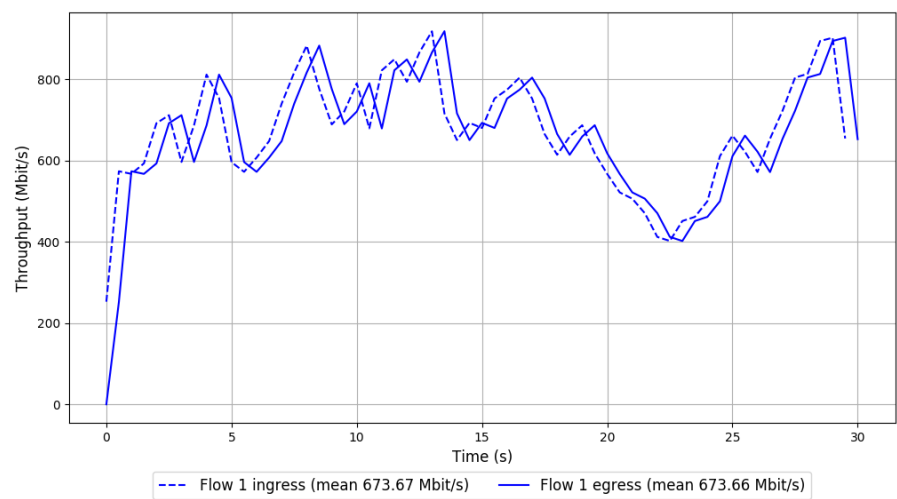
-- Flow 1:

Average throughput: 673.66 Mbit/s

95th percentile per-packet one-way delay: 0.998 ms

Loss rate: 0.01%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-02-12 00:31:37

End at: 2019-02-12 00:32:07

Local clock offset: 5.78 ms

Remote clock offset: 0.359 ms

Below is generated by plot.py at 2019-02-12 01:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 763.84 Mbit/s

95th percentile per-packet one-way delay: 1.370 ms

Loss rate: 0.01%

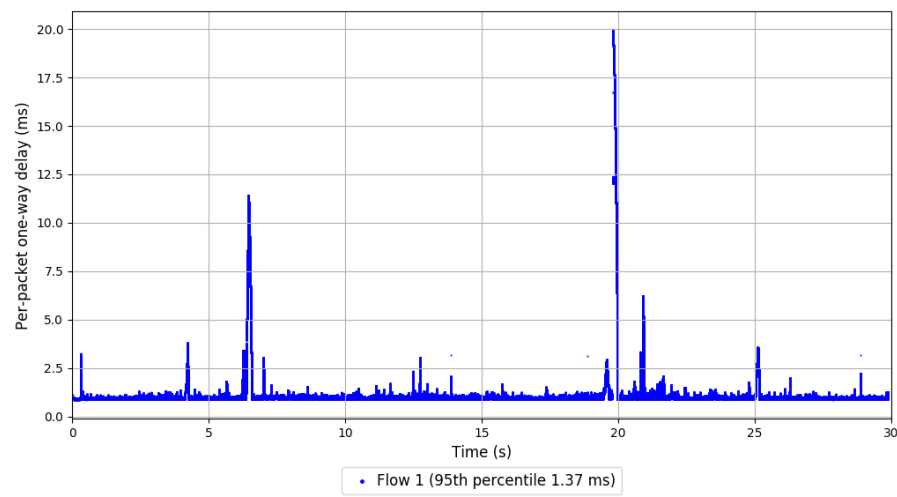
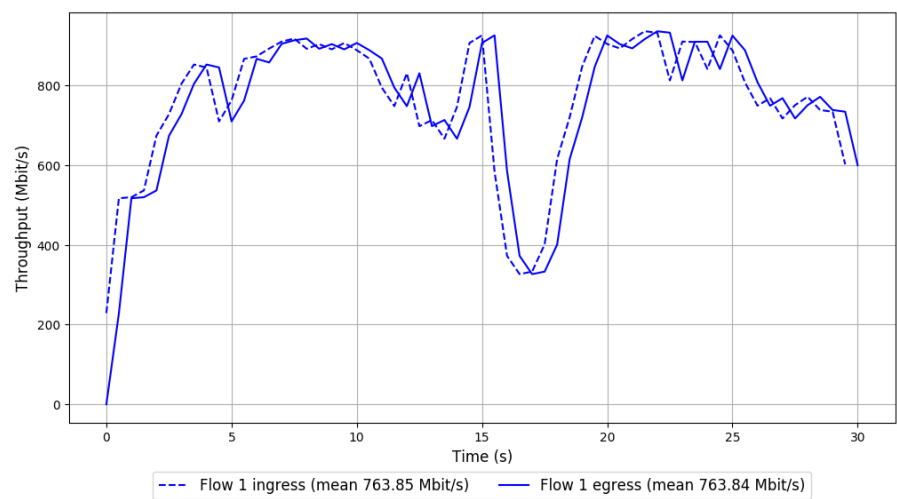
-- Flow 1:

Average throughput: 763.84 Mbit/s

95th percentile per-packet one-way delay: 1.370 ms

Loss rate: 0.01%

Run 5: Report of PCC-Allegro — Data Link

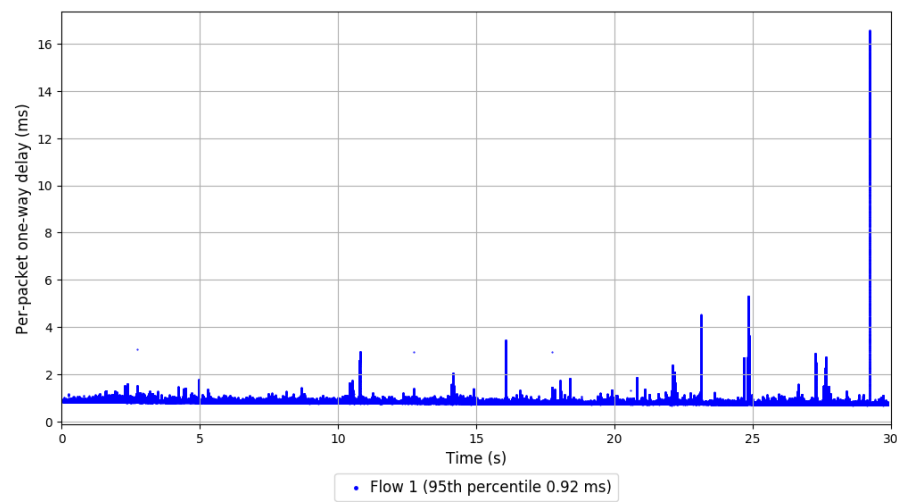
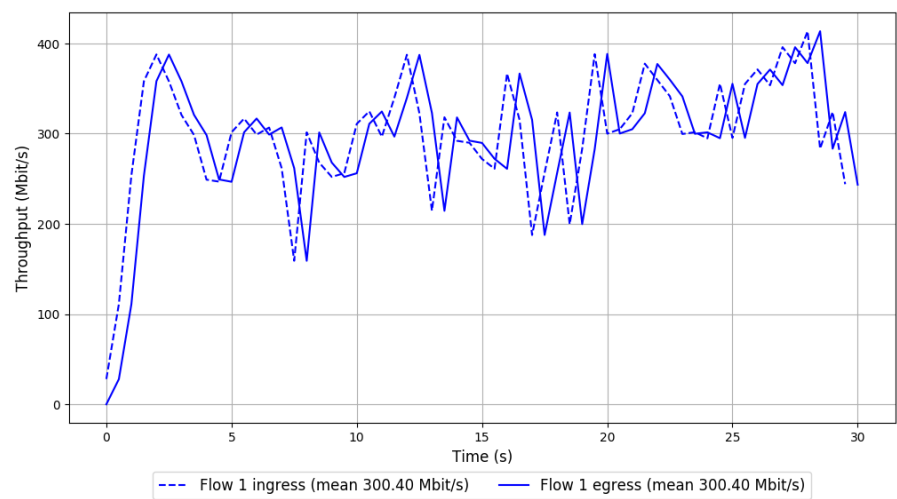


Run 1: Statistics of PCC-Expr

Start at: 2019-02-11 22:42:15
End at: 2019-02-11 22:42:45
Local clock offset: -1.265 ms
Remote clock offset: -1.196 ms

Below is generated by plot.py at 2019-02-12 01:54:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 300.40 Mbit/s
95th percentile per-packet one-way delay: 0.921 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 300.40 Mbit/s
95th percentile per-packet one-way delay: 0.921 ms
Loss rate: 0.01%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-02-11 23:11:40

End at: 2019-02-11 23:12:10

Local clock offset: 0.429 ms

Remote clock offset: 3.217 ms

Below is generated by plot.py at 2019-02-12 01:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 305.75 Mbit/s

95th percentile per-packet one-way delay: 1.282 ms

Loss rate: 0.00%

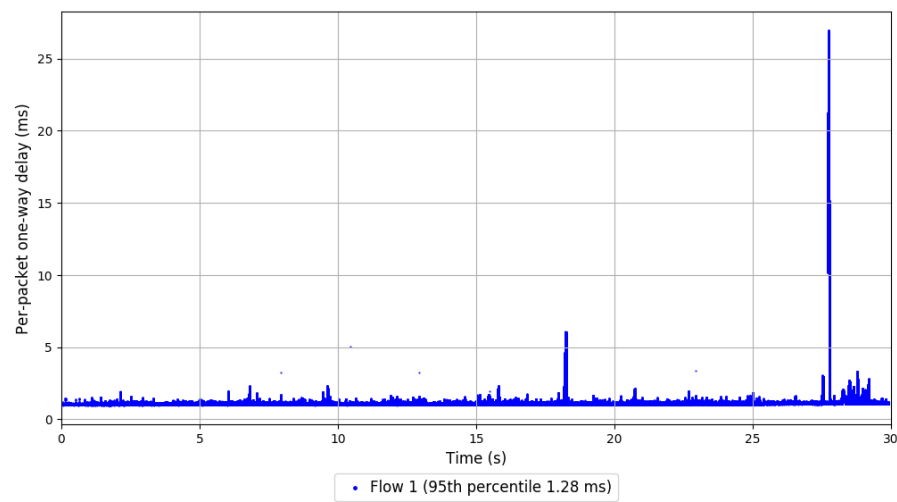
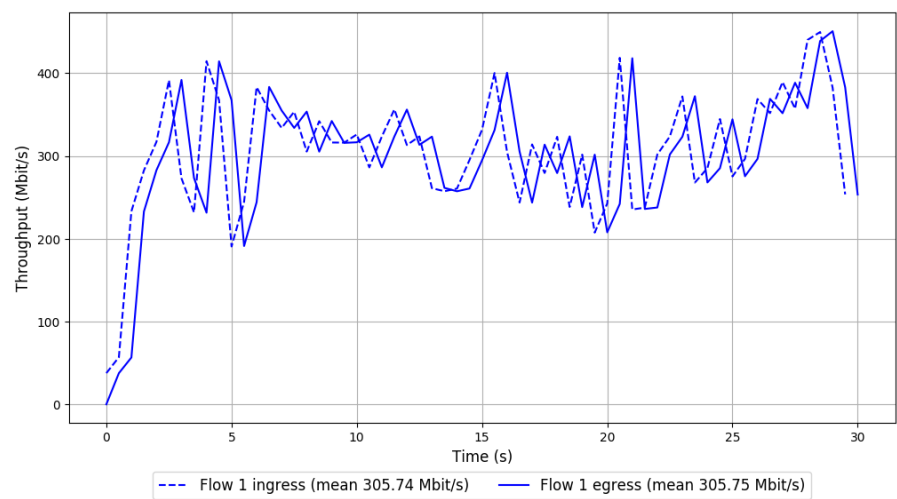
-- Flow 1:

Average throughput: 305.75 Mbit/s

95th percentile per-packet one-way delay: 1.282 ms

Loss rate: 0.00%

Run 2: Report of PCC-Expr — Data Link

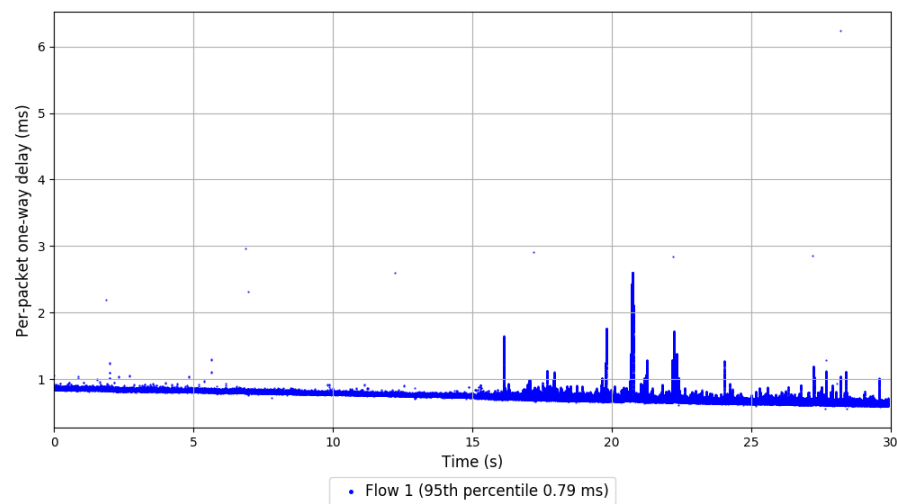
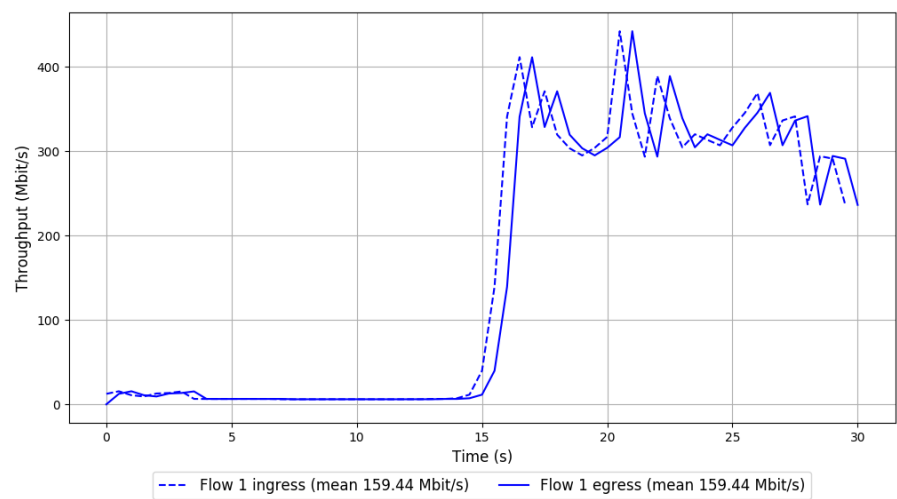


Run 3: Statistics of PCC-Expr

Start at: 2019-02-11 23:41:22
End at: 2019-02-11 23:41:52
Local clock offset: 2.292 ms
Remote clock offset: -1.196 ms

Below is generated by plot.py at 2019-02-12 01:54:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 159.44 Mbit/s
95th percentile per-packet one-way delay: 0.792 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 159.44 Mbit/s
95th percentile per-packet one-way delay: 0.792 ms
Loss rate: 0.01%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-02-12 00:10:55

End at: 2019-02-12 00:11:25

Local clock offset: 4.784 ms

Remote clock offset: -1.71 ms

Below is generated by plot.py at 2019-02-12 01:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.59 Mbit/s

95th percentile per-packet one-way delay: 1.113 ms

Loss rate: 0.01%

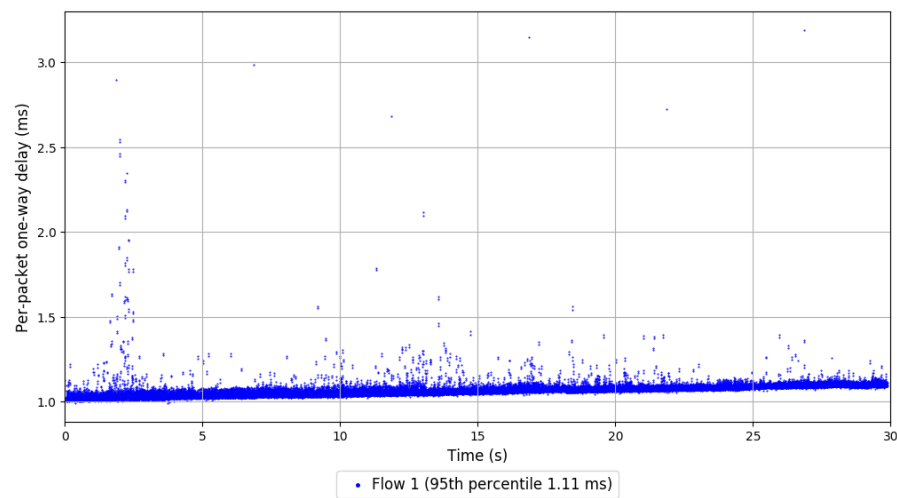
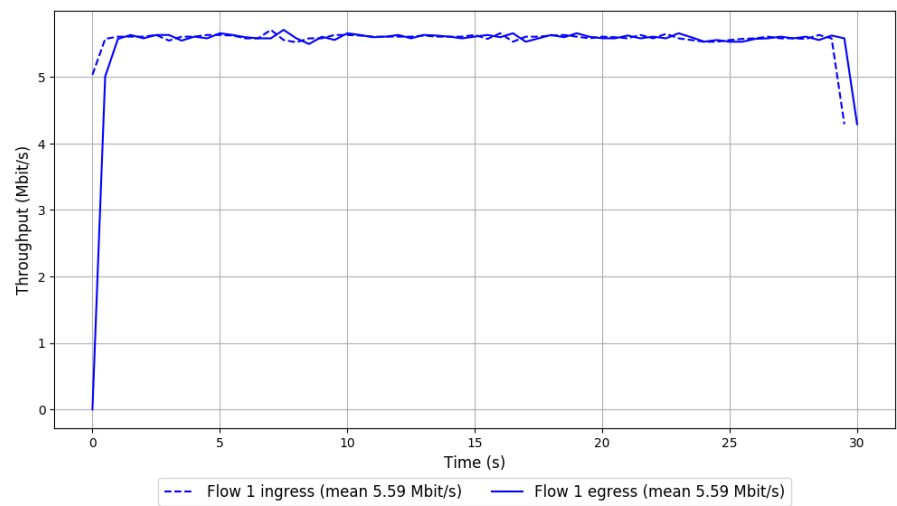
-- Flow 1:

Average throughput: 5.59 Mbit/s

95th percentile per-packet one-way delay: 1.113 ms

Loss rate: 0.01%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-02-12 00:40:09

End at: 2019-02-12 00:40:39

Local clock offset: 2.699 ms

Remote clock offset: 0.063 ms

Below is generated by plot.py at 2019-02-12 01:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 288.34 Mbit/s

95th percentile per-packet one-way delay: 1.125 ms

Loss rate: 0.00%

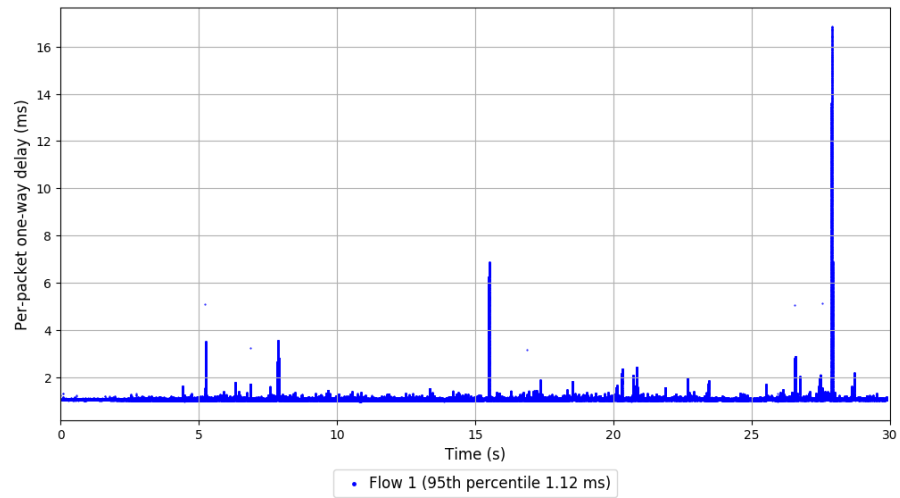
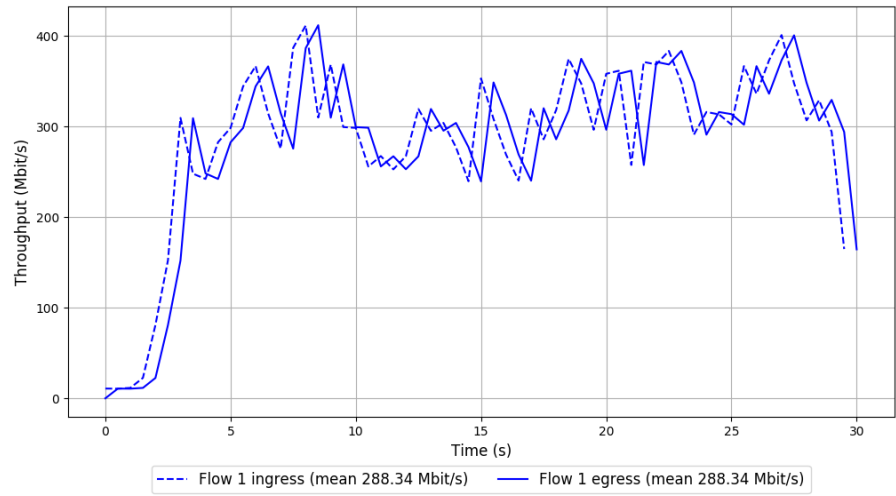
-- Flow 1:

Average throughput: 288.34 Mbit/s

95th percentile per-packet one-way delay: 1.125 ms

Loss rate: 0.00%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-02-11 22:40:59

End at: 2019-02-11 22:41:29

Local clock offset: -1.533 ms

Remote clock offset: -1.034 ms

Below is generated by plot.py at 2019-02-12 01:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.72 Mbit/s

95th percentile per-packet one-way delay: 1.345 ms

Loss rate: 0.01%

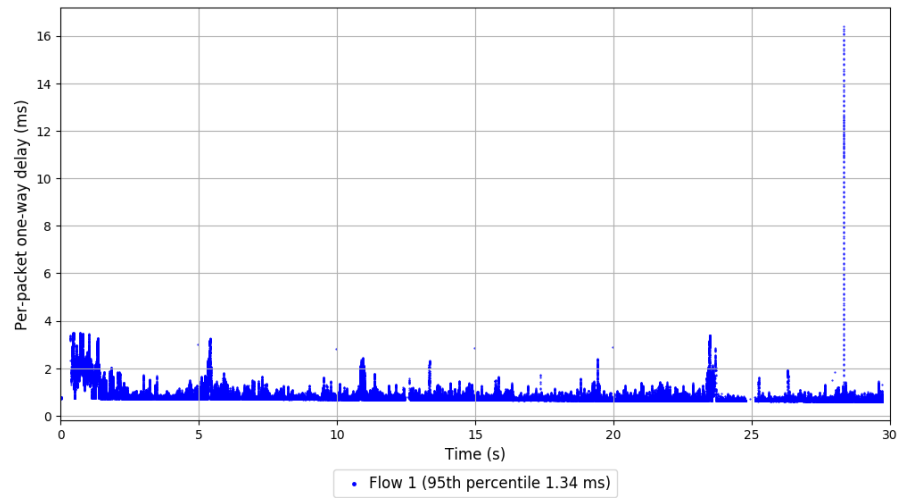
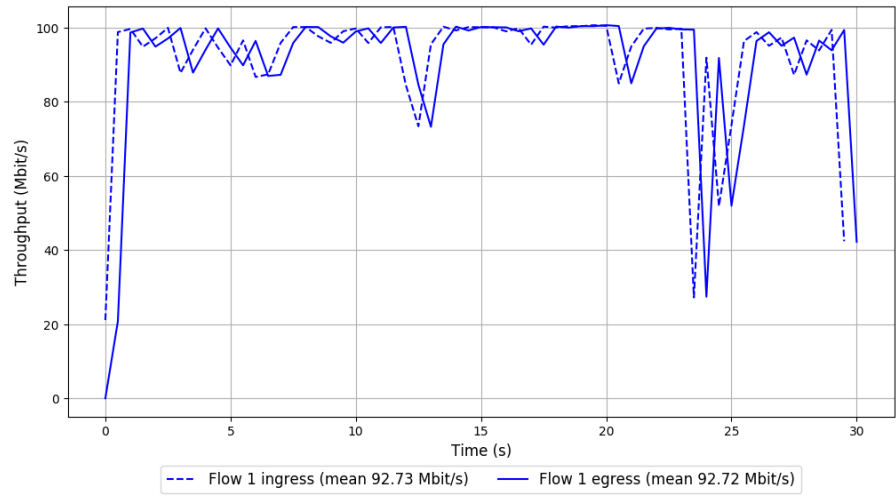
-- Flow 1:

Average throughput: 92.72 Mbit/s

95th percentile per-packet one-way delay: 1.345 ms

Loss rate: 0.01%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-02-11 23:10:24

End at: 2019-02-11 23:10:54

Local clock offset: 0.417 ms

Remote clock offset: 3.084 ms

Below is generated by plot.py at 2019-02-12 01:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.41 Mbit/s

95th percentile per-packet one-way delay: 1.206 ms

Loss rate: 0.01%

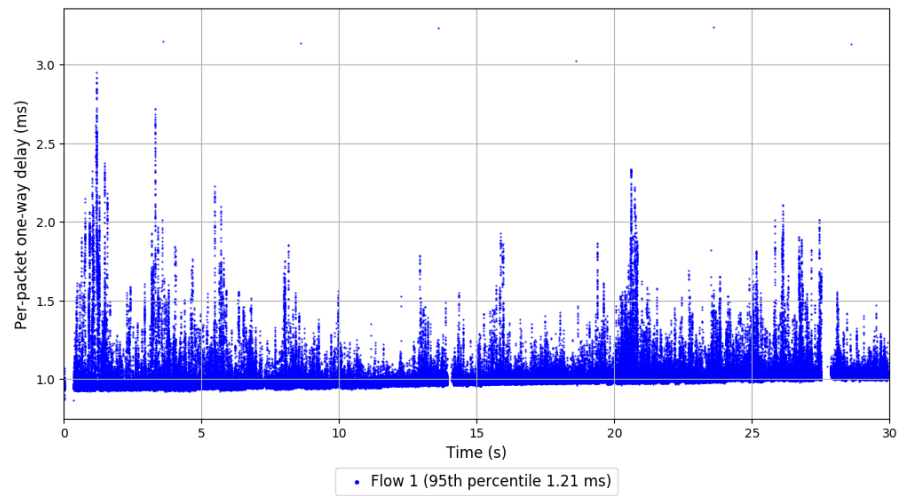
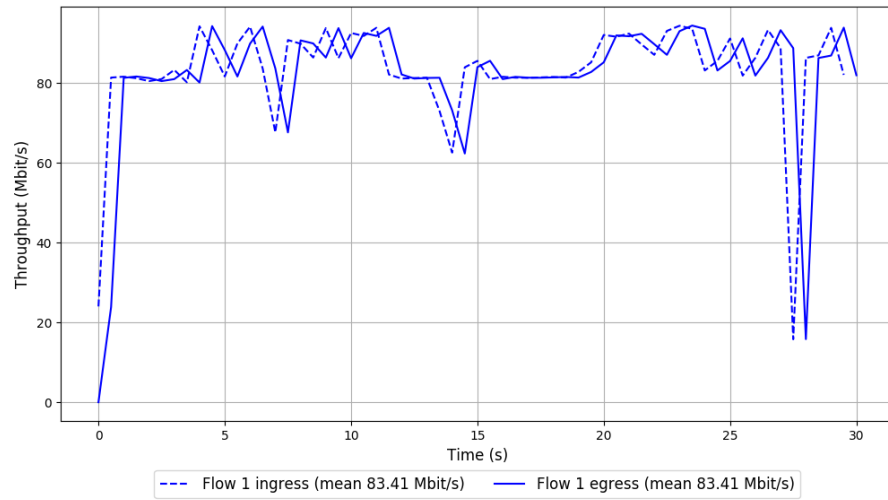
-- Flow 1:

Average throughput: 83.41 Mbit/s

95th percentile per-packet one-way delay: 1.206 ms

Loss rate: 0.01%

Run 2: Report of QUIC Cubic — Data Link

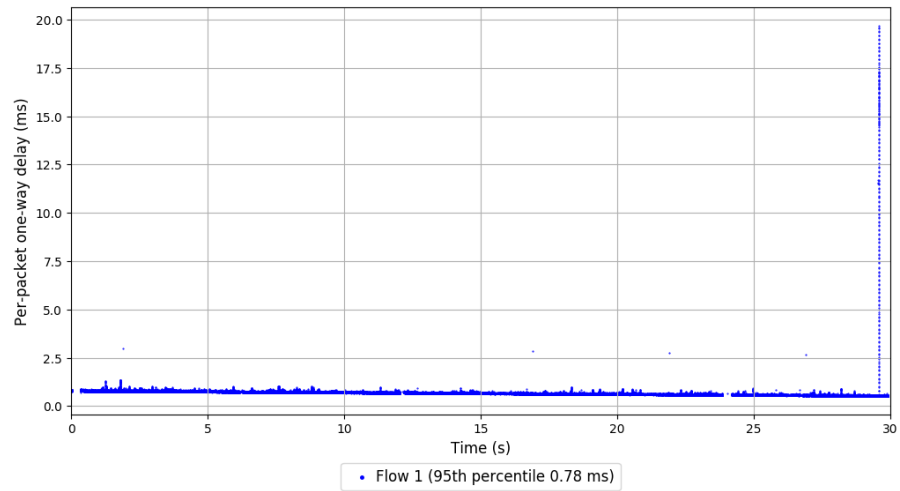
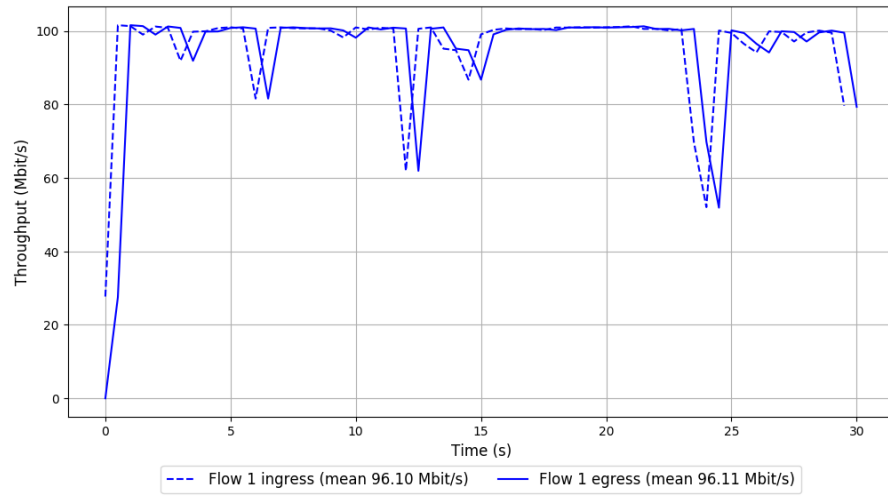


Run 3: Statistics of QUIC Cubic

Start at: 2019-02-11 23:40:05
End at: 2019-02-11 23:40:35
Local clock offset: 2.082 ms
Remote clock offset: -0.716 ms

Below is generated by plot.py at 2019-02-12 01:54:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.11 Mbit/s
95th percentile per-packet one-way delay: 0.783 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.11 Mbit/s
95th percentile per-packet one-way delay: 0.783 ms
Loss rate: 0.01%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-02-12 00:09:38

End at: 2019-02-12 00:10:08

Local clock offset: 4.721 ms

Remote clock offset: -1.952 ms

Below is generated by plot.py at 2019-02-12 01:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.79 Mbit/s

95th percentile per-packet one-way delay: 1.043 ms

Loss rate: 0.01%

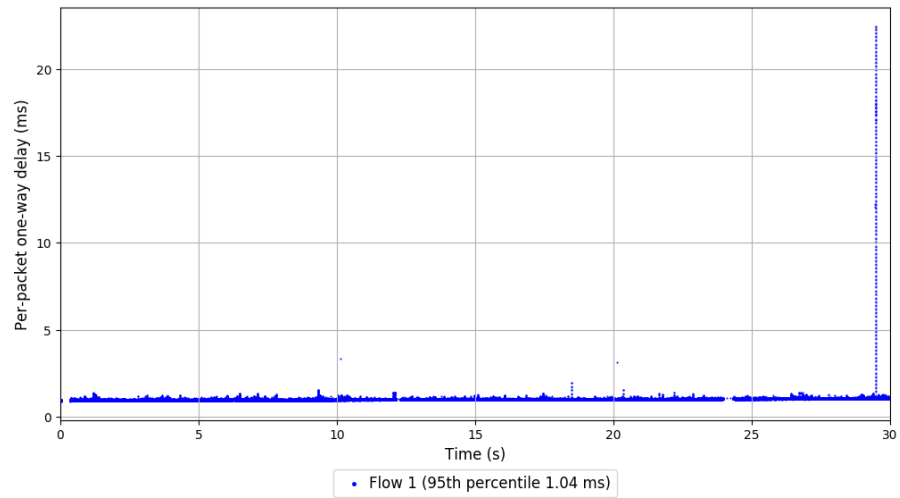
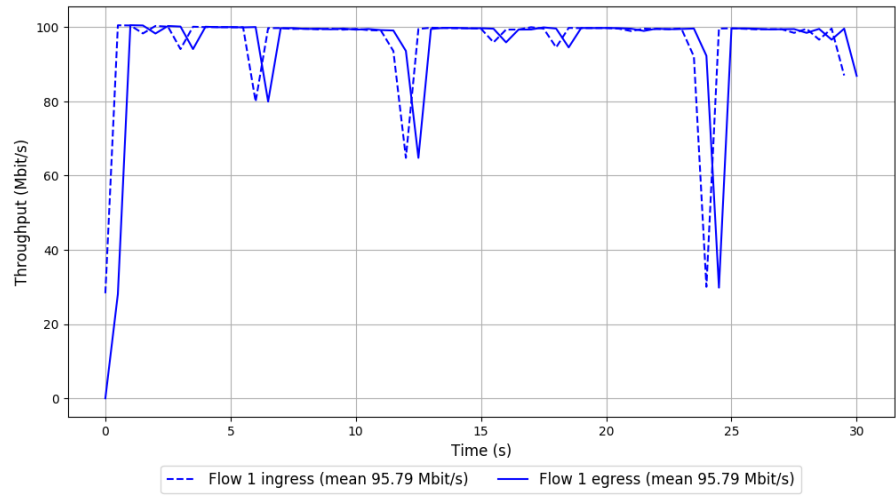
-- Flow 1:

Average throughput: 95.79 Mbit/s

95th percentile per-packet one-way delay: 1.043 ms

Loss rate: 0.01%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-02-12 00:38:53

End at: 2019-02-12 00:39:23

Local clock offset: 3.24 ms

Remote clock offset: 0.516 ms

Below is generated by plot.py at 2019-02-12 01:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.59 Mbit/s

95th percentile per-packet one-way delay: 1.145 ms

Loss rate: 0.01%

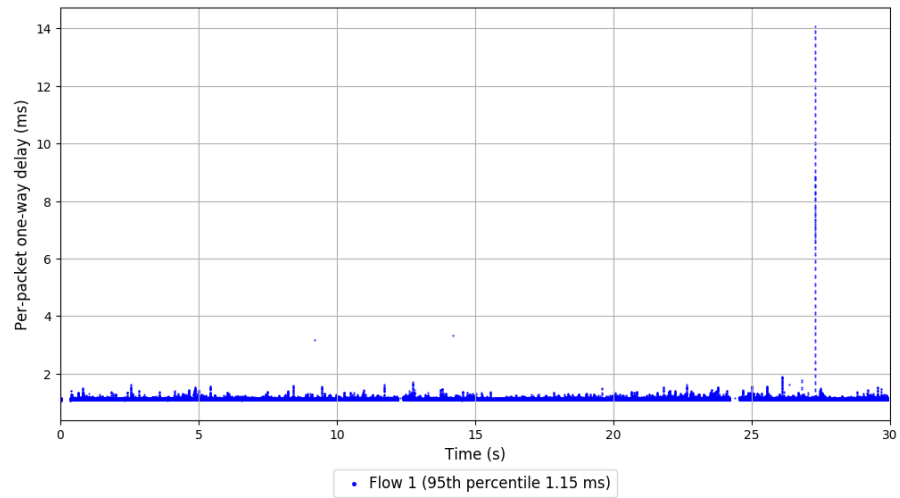
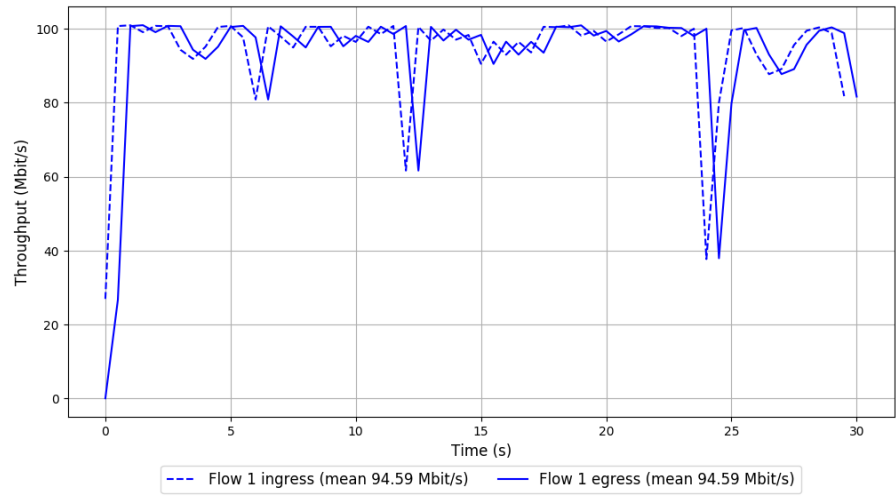
-- Flow 1:

Average throughput: 94.59 Mbit/s

95th percentile per-packet one-way delay: 1.145 ms

Loss rate: 0.01%

Run 5: Report of QUIC Cubic — Data Link

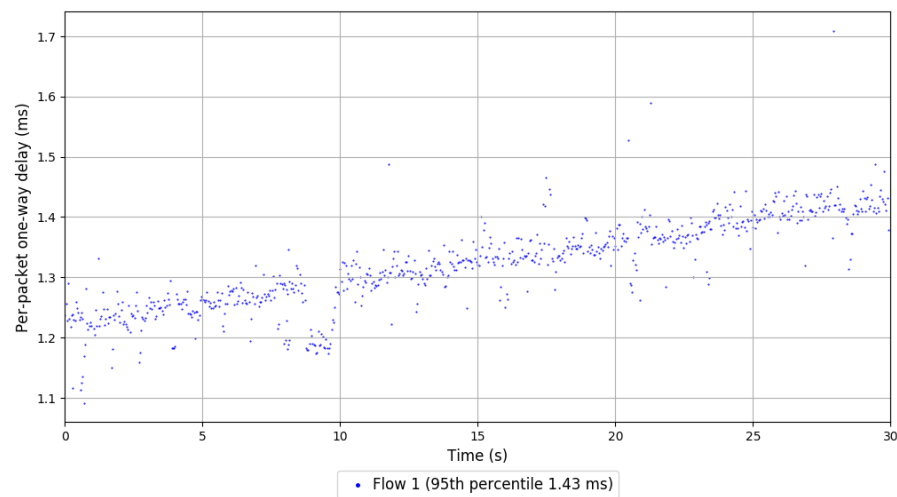
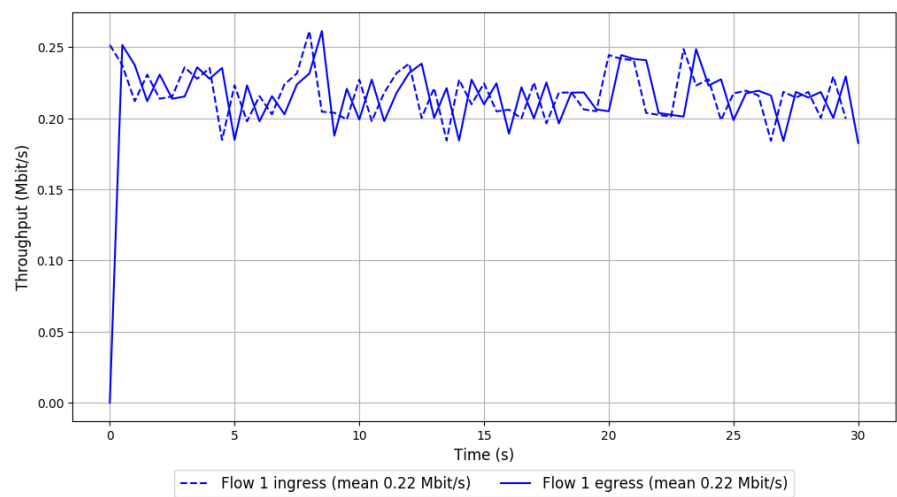


Run 1: Statistics of SCReAM

Start at: 2019-02-11 22:58:11
End at: 2019-02-11 22:58:41
Local clock offset: 0.249 ms
Remote clock offset: -0.552 ms

Below is generated by plot.py at 2019-02-12 01:54:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.430 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.430 ms
Loss rate: 0.13%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-02-11 23:27:41

End at: 2019-02-11 23:28:11

Local clock offset: 0.477 ms

Remote clock offset: 5.003 ms

Below is generated by plot.py at 2019-02-12 01:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.158 ms

Loss rate: 0.13%

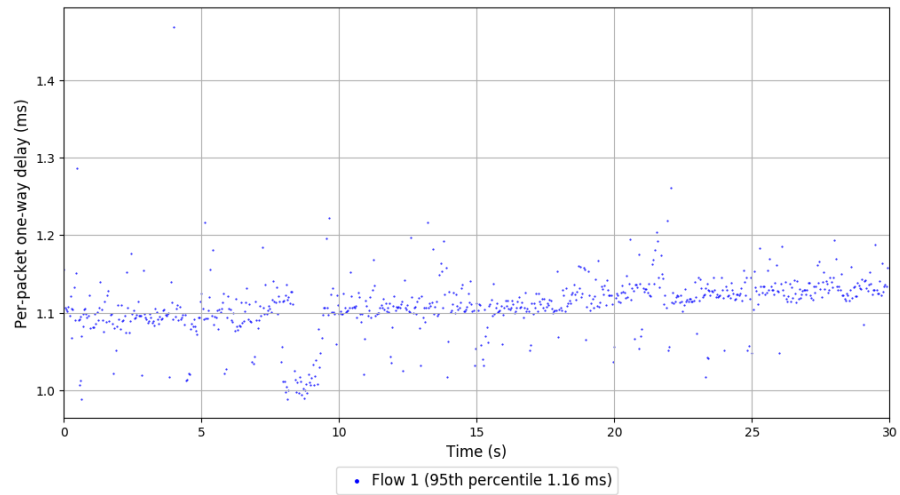
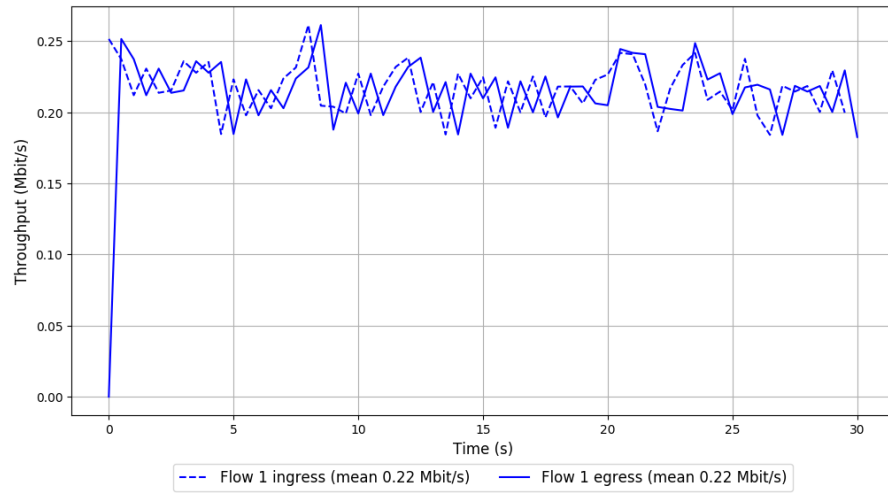
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.158 ms

Loss rate: 0.13%

Run 2: Report of SReAM — Data Link

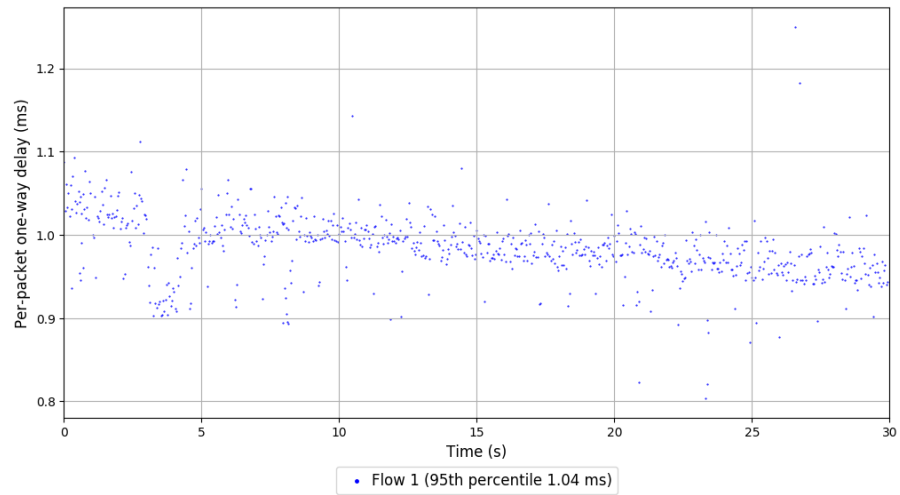
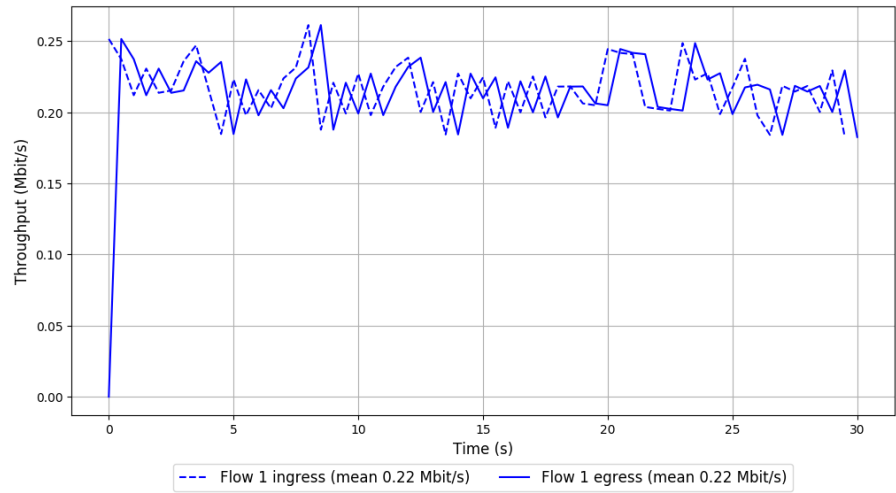


Run 3: Statistics of SCReAM

Start at: 2019-02-11 23:57:16
End at: 2019-02-11 23:57:46
Local clock offset: 4.033 ms
Remote clock offset: -3.609 ms

Below is generated by plot.py at 2019-02-12 01:54:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.044 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.044 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-02-12 00:26:30

End at: 2019-02-12 00:27:00

Local clock offset: 5.542 ms

Remote clock offset: 0.101 ms

Below is generated by plot.py at 2019-02-12 01:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.115 ms

Loss rate: 0.00%

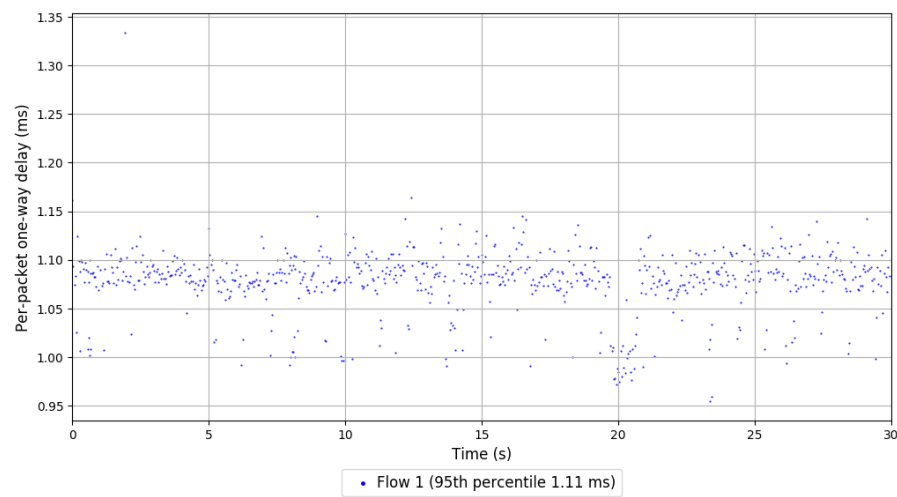
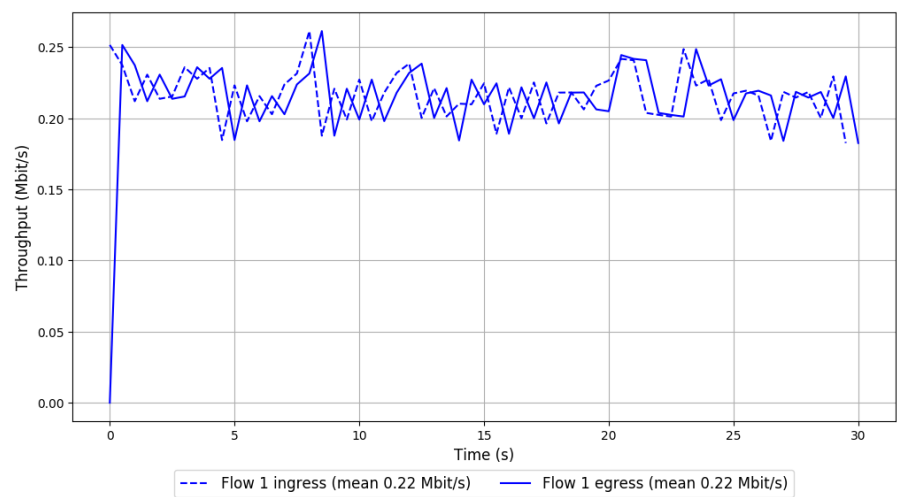
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.115 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

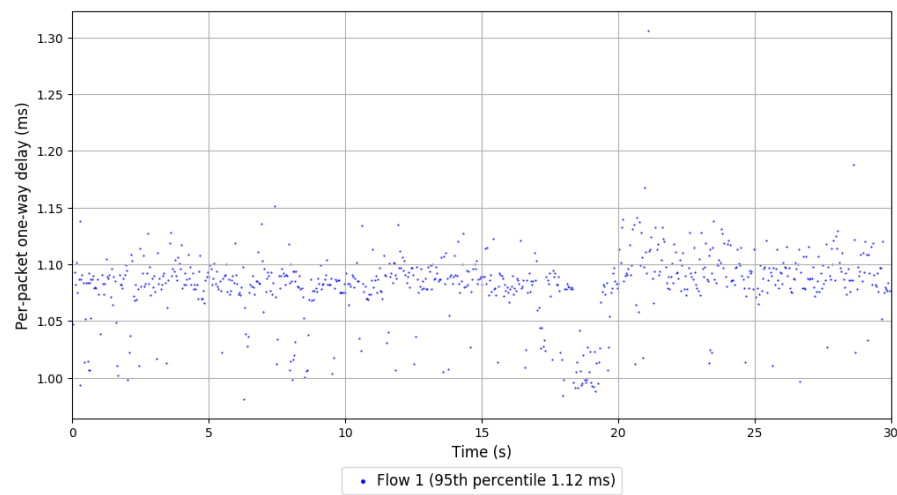
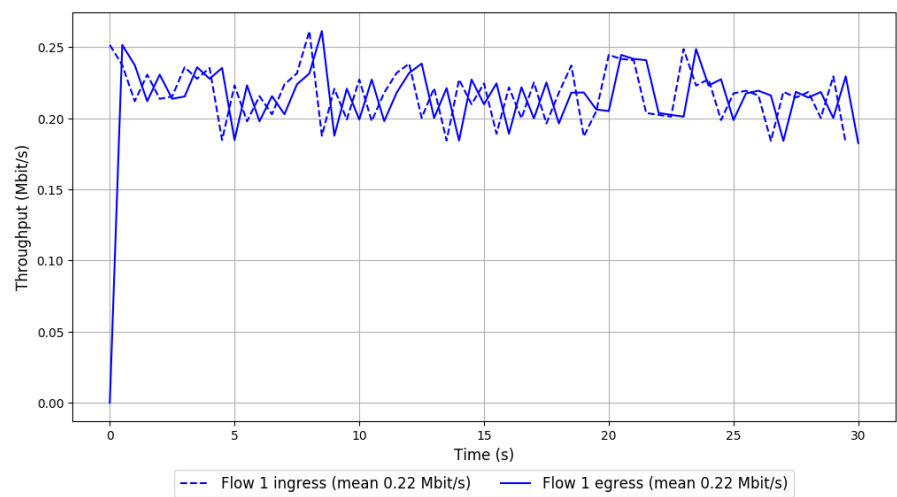


Run 5: Statistics of SCReAM

Start at: 2019-02-12 00:56:01
End at: 2019-02-12 00:56:31
Local clock offset: -0.627 ms
Remote clock offset: -2.979 ms

Below is generated by plot.py at 2019-02-12 01:54:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.120 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.120 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

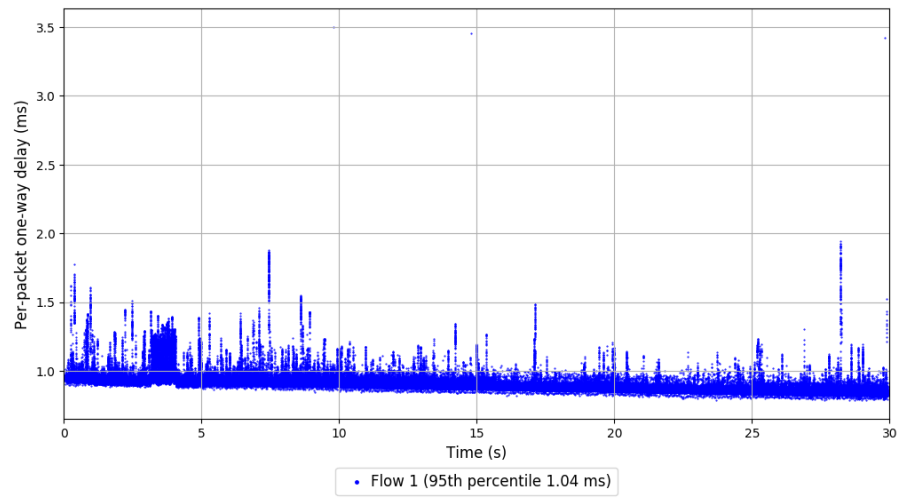
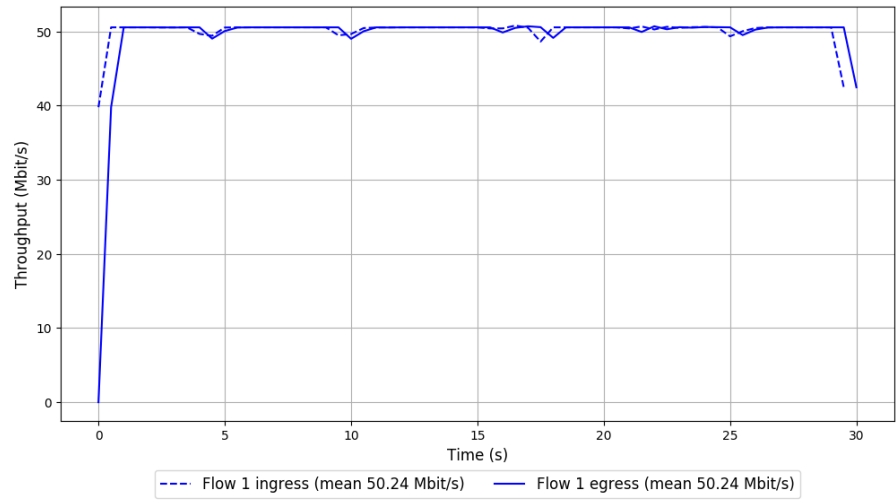


Run 1: Statistics of Sprout

Start at: 2019-02-11 22:43:46
End at: 2019-02-11 22:44:16
Local clock offset: -0.964 ms
Remote clock offset: -1.282 ms

Below is generated by plot.py at 2019-02-12 01:54:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.24 Mbit/s
95th percentile per-packet one-way delay: 1.040 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.24 Mbit/s
95th percentile per-packet one-way delay: 1.040 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-02-11 23:13:11

End at: 2019-02-11 23:13:41

Local clock offset: 0.427 ms

Remote clock offset: 3.405 ms

Below is generated by plot.py at 2019-02-12 01:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.26 Mbit/s

95th percentile per-packet one-way delay: 1.199 ms

Loss rate: 0.00%

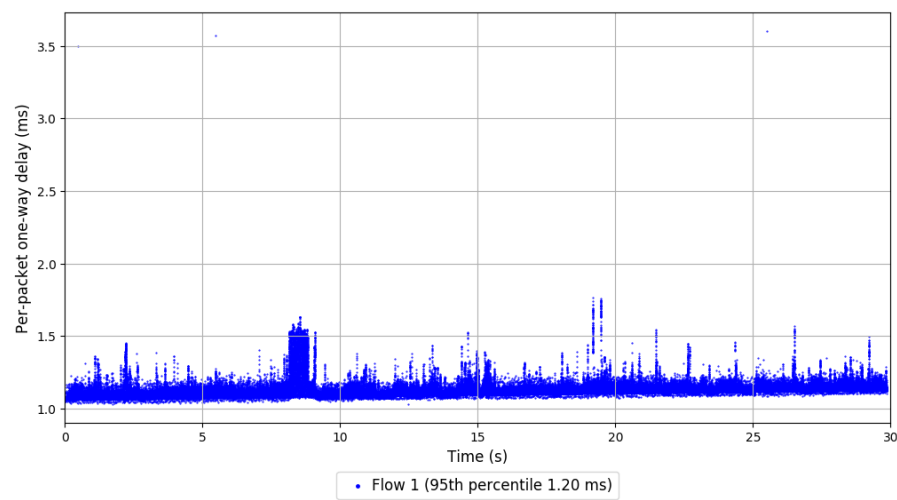
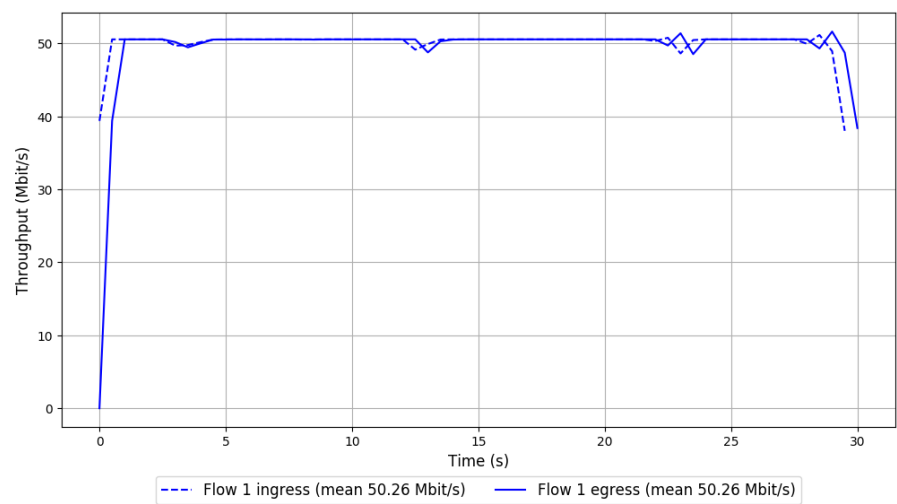
-- Flow 1:

Average throughput: 50.26 Mbit/s

95th percentile per-packet one-way delay: 1.199 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

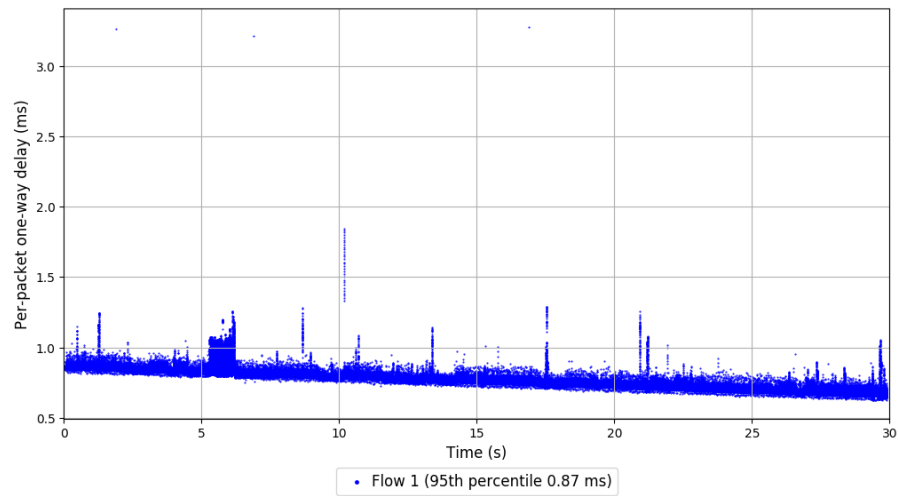
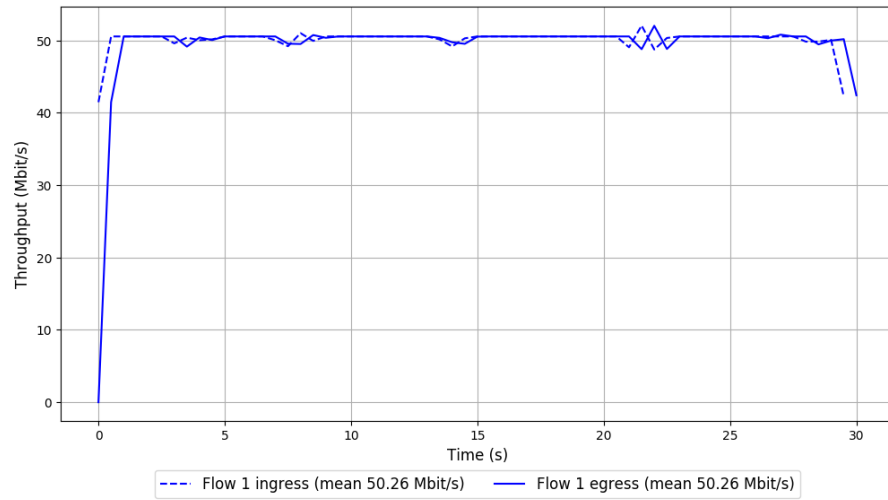


Run 3: Statistics of Sprout

Start at: 2019-02-11 23:42:44
End at: 2019-02-11 23:43:14
Local clock offset: 2.532 ms
Remote clock offset: -1.556 ms

Below is generated by plot.py at 2019-02-12 01:54:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.26 Mbit/s
95th percentile per-packet one-way delay: 0.873 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.26 Mbit/s
95th percentile per-packet one-way delay: 0.873 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

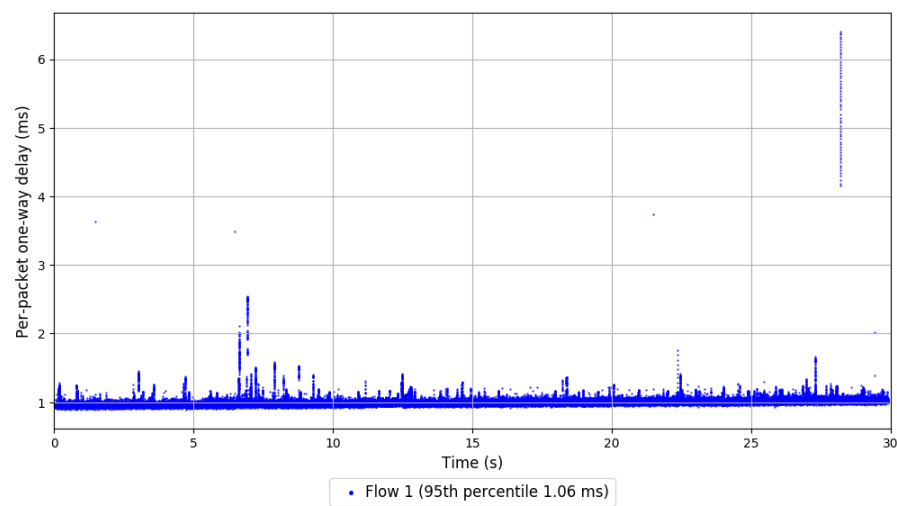
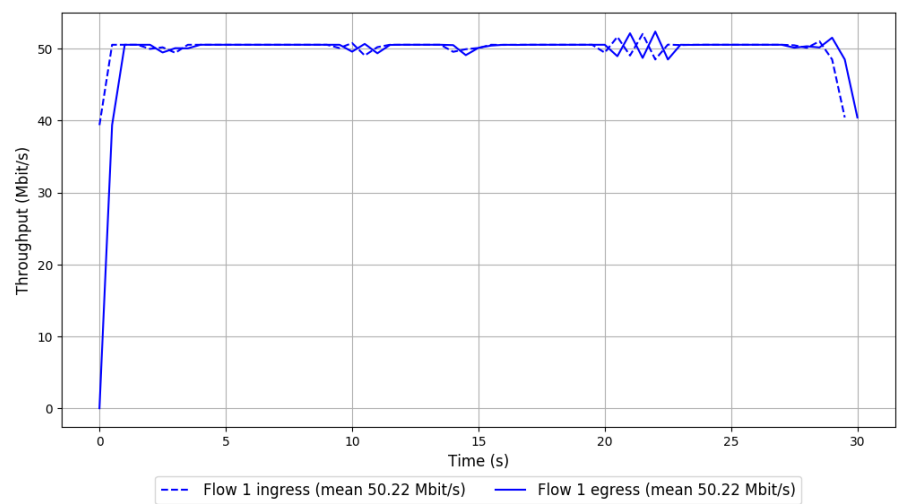


Run 4: Statistics of Sprout

Start at: 2019-02-12 00:12:08
End at: 2019-02-12 00:12:38
Local clock offset: 4.834 ms
Remote clock offset: -1.355 ms

Below is generated by plot.py at 2019-02-12 01:54:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.22 Mbit/s
95th percentile per-packet one-way delay: 1.059 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.22 Mbit/s
95th percentile per-packet one-way delay: 1.059 ms
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

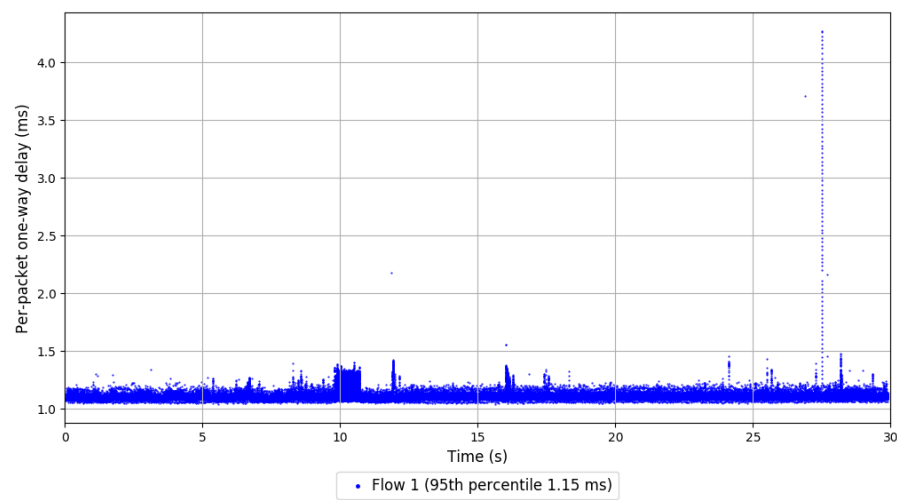
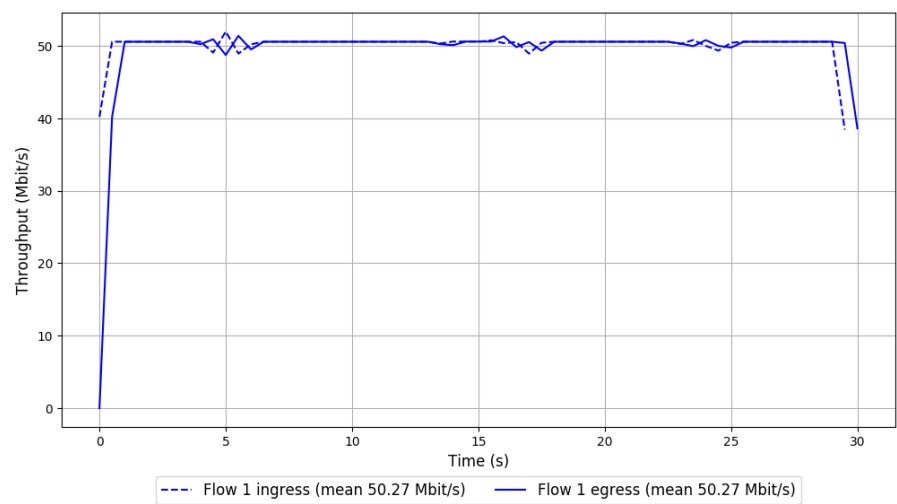


Run 5: Statistics of Sprout

Start at: 2019-02-12 00:41:40
End at: 2019-02-12 00:42:10
Local clock offset: 2.199 ms
Remote clock offset: -0.427 ms

Below is generated by plot.py at 2019-02-12 01:54:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.27 Mbit/s
95th percentile per-packet one-way delay: 1.149 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.27 Mbit/s
95th percentile per-packet one-way delay: 1.149 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-02-11 22:55:31

End at: 2019-02-11 22:56:01

Local clock offset: 0.107 ms

Remote clock offset: -1.651 ms

Below is generated by plot.py at 2019-02-12 01:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.28 Mbit/s

95th percentile per-packet one-way delay: 1.082 ms

Loss rate: 0.01%

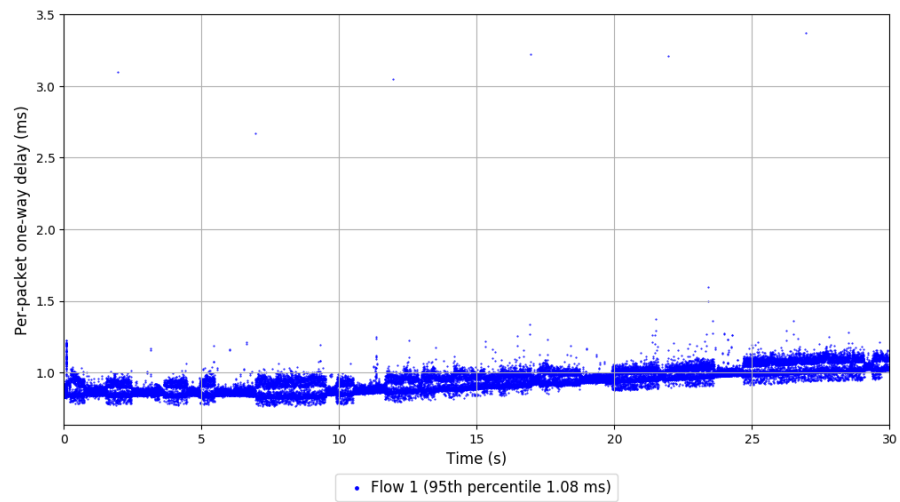
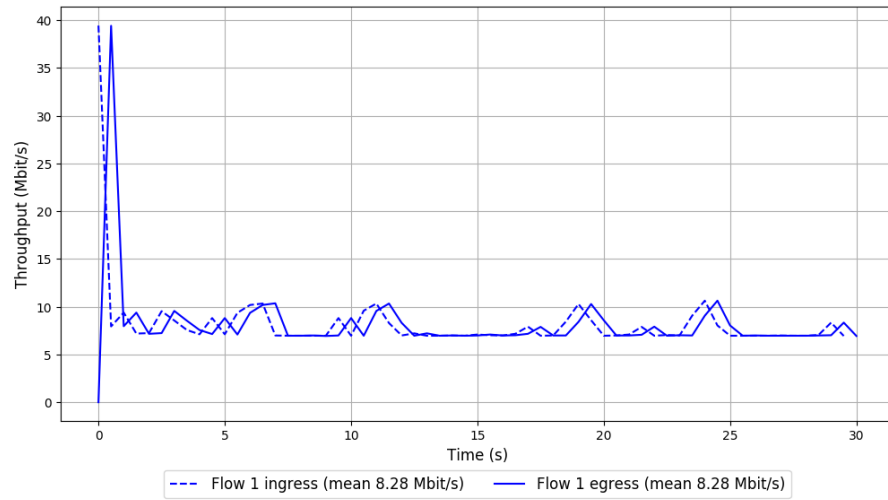
-- Flow 1:

Average throughput: 8.28 Mbit/s

95th percentile per-packet one-way delay: 1.082 ms

Loss rate: 0.01%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-02-11 23:24:56

End at: 2019-02-11 23:25:26

Local clock offset: 0.485 ms

Remote clock offset: 4.766 ms

Below is generated by plot.py at 2019-02-12 01:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.48 Mbit/s

95th percentile per-packet one-way delay: 1.057 ms

Loss rate: 0.01%

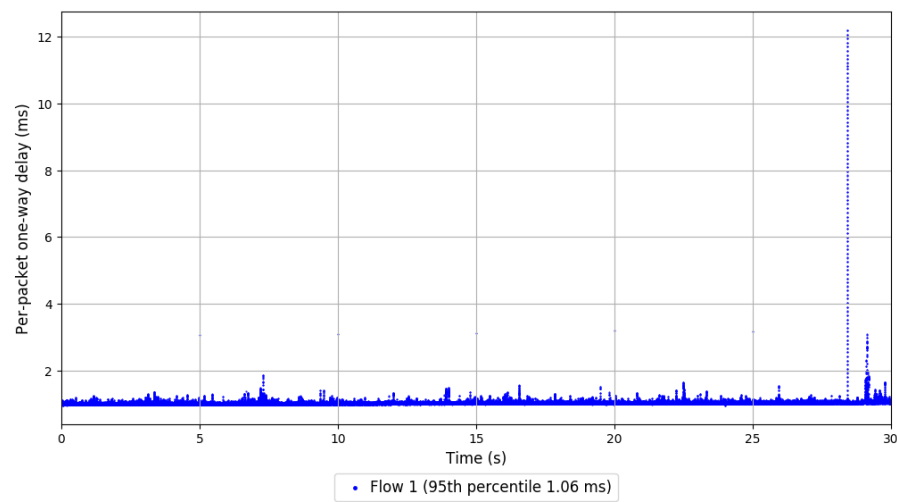
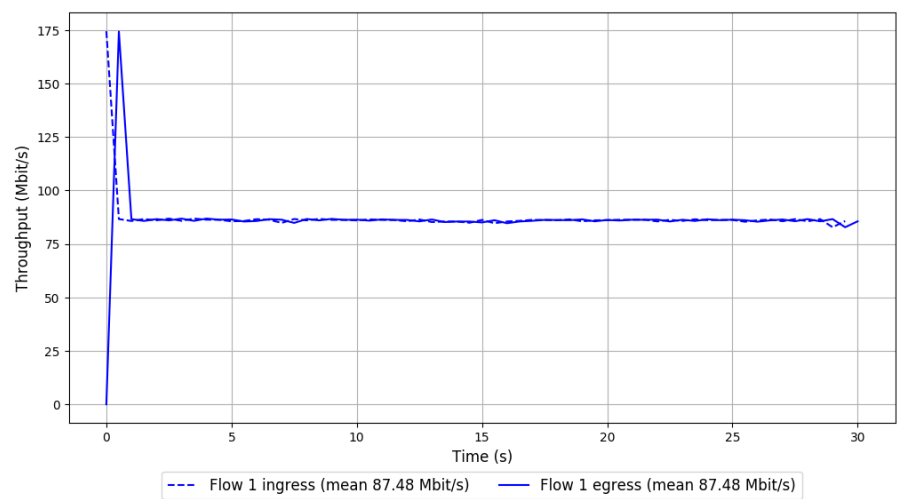
-- Flow 1:

Average throughput: 87.48 Mbit/s

95th percentile per-packet one-way delay: 1.057 ms

Loss rate: 0.01%

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

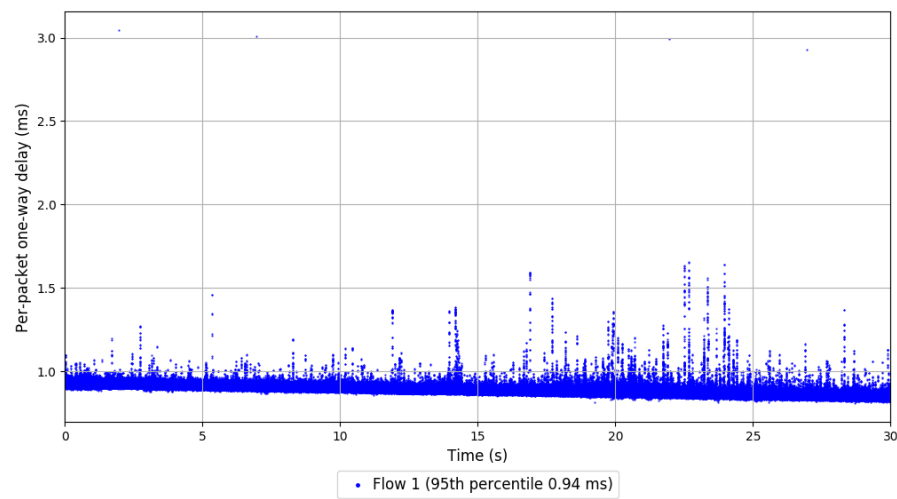
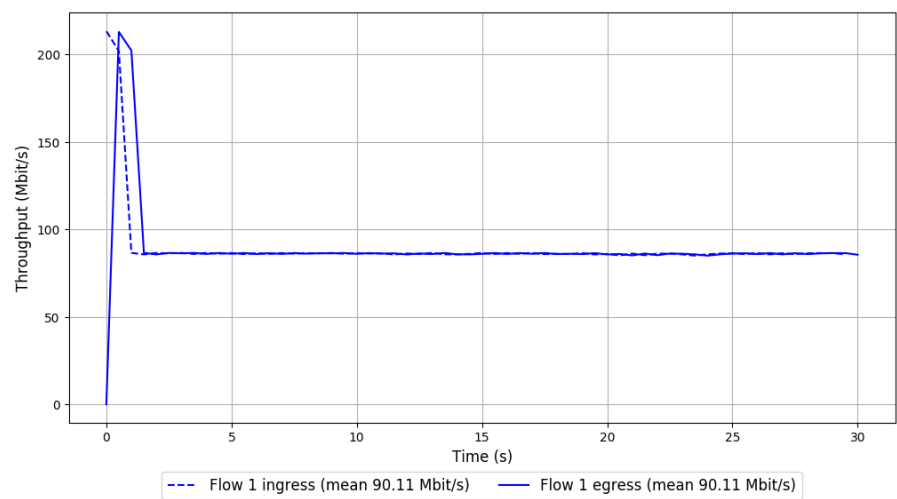


Run 3: Statistics of TaoVA-100x

Start at: 2019-02-11 23:54:31
End at: 2019-02-11 23:55:01
Local clock offset: 3.829 ms
Remote clock offset: -3.378 ms

Below is generated by plot.py at 2019-02-12 01:54:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.11 Mbit/s
95th percentile per-packet one-way delay: 0.938 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 90.11 Mbit/s
95th percentile per-packet one-way delay: 0.938 ms
Loss rate: 0.01%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-02-12 00:23:50

End at: 2019-02-12 00:24:20

Local clock offset: 5.42 ms

Remote clock offset: -0.004 ms

Below is generated by plot.py at 2019-02-12 01:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.38 Mbit/s

95th percentile per-packet one-way delay: 1.062 ms

Loss rate: 0.01%

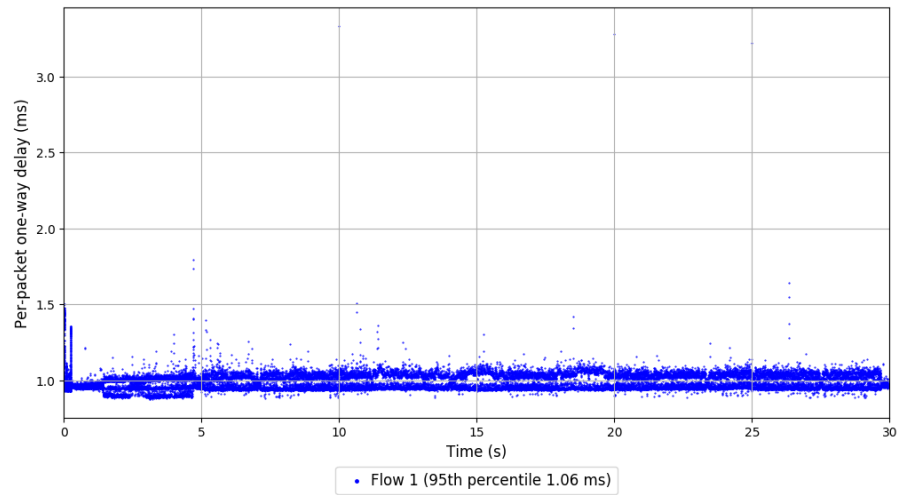
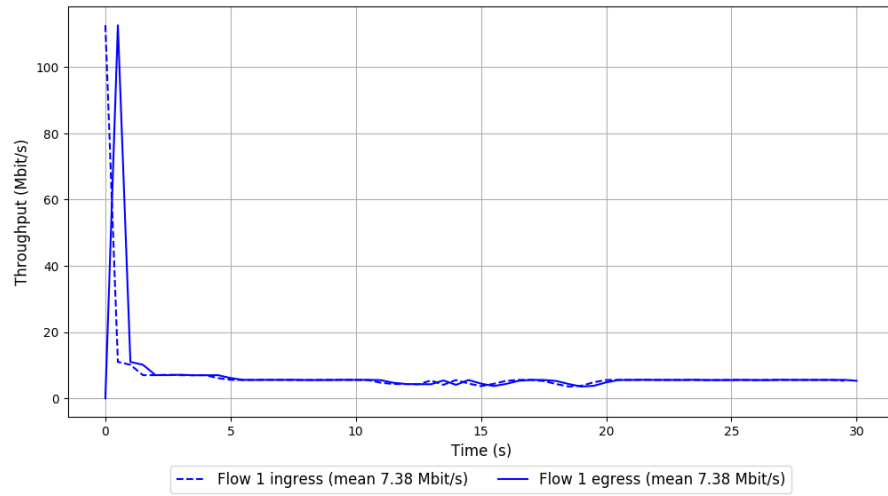
-- Flow 1:

Average throughput: 7.38 Mbit/s

95th percentile per-packet one-way delay: 1.062 ms

Loss rate: 0.01%

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

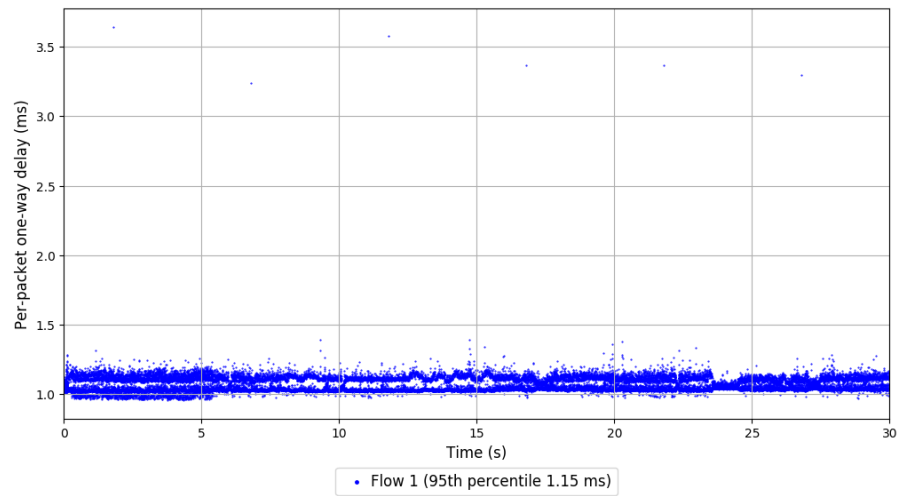
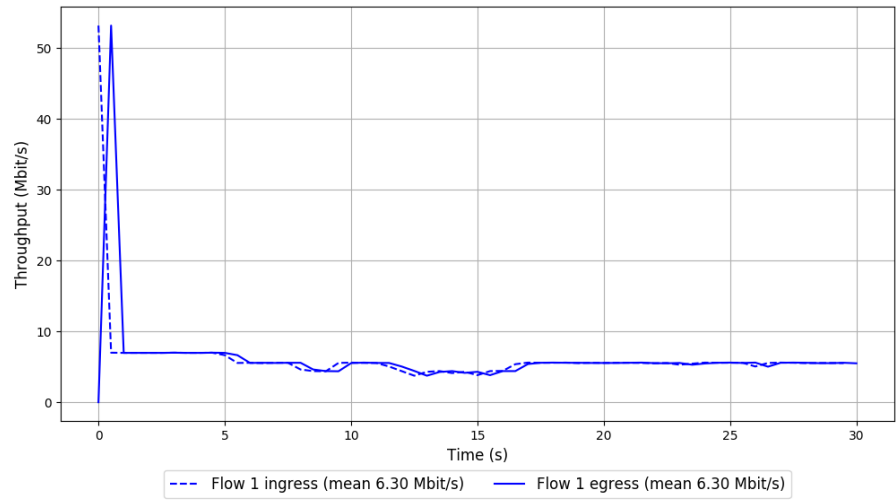


Run 5: Statistics of TaoVA-100x

Start at: 2019-02-12 00:53:26
End at: 2019-02-12 00:53:56
Local clock offset: -0.314 ms
Remote clock offset: -2.741 ms

Below is generated by plot.py at 2019-02-12 01:54:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.30 Mbit/s
95th percentile per-packet one-way delay: 1.148 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 6.30 Mbit/s
95th percentile per-packet one-way delay: 1.148 ms
Loss rate: 0.01%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-02-11 22:59:24

End at: 2019-02-11 22:59:54

Local clock offset: 0.294 ms

Remote clock offset: 0.108 ms

Below is generated by plot.py at 2019-02-12 01:54:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.99 Mbit/s

95th percentile per-packet one-way delay: 1.191 ms

Loss rate: 0.00%

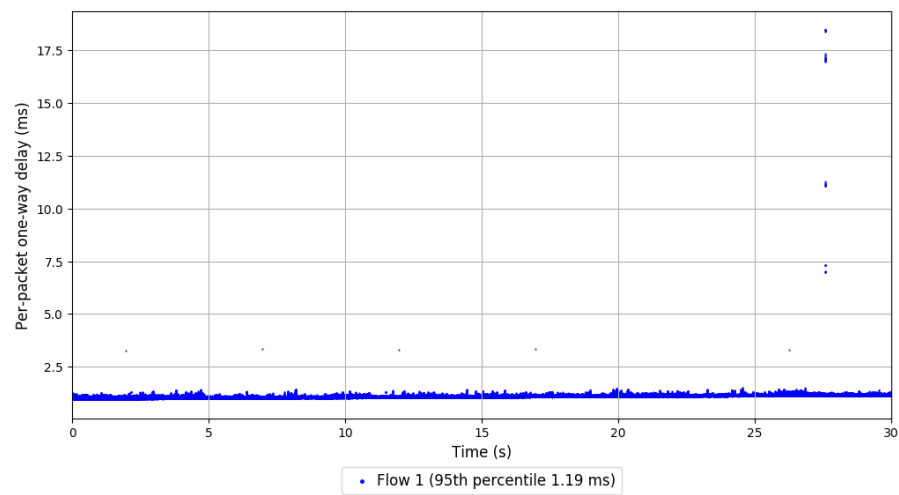
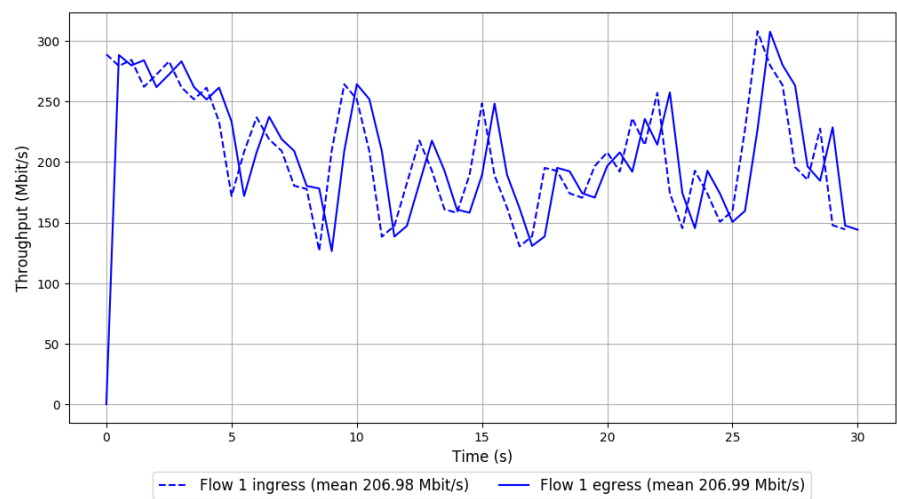
-- Flow 1:

Average throughput: 206.99 Mbit/s

95th percentile per-packet one-way delay: 1.191 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-02-11 23:28:54

End at: 2019-02-11 23:29:24

Local clock offset: 0.459 ms

Remote clock offset: 5.195 ms

Below is generated by plot.py at 2019-02-12 01:55:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.97 Mbit/s

95th percentile per-packet one-way delay: 1.000 ms

Loss rate: 0.01%

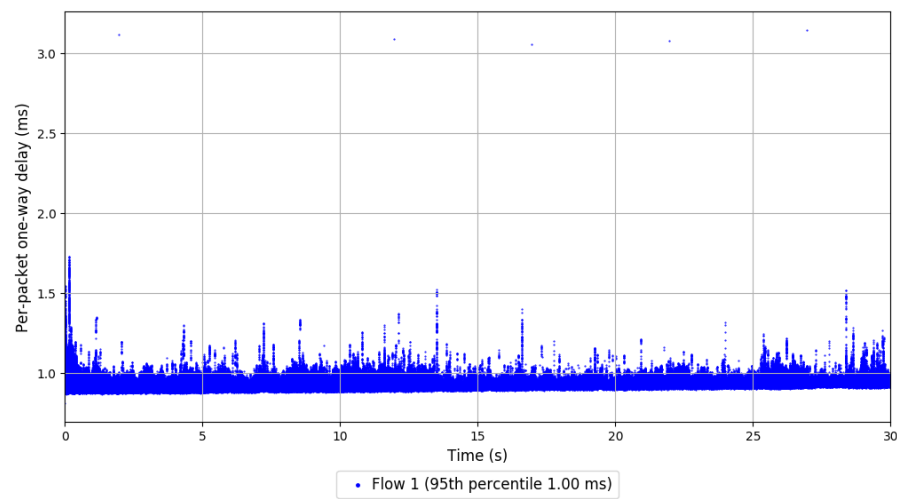
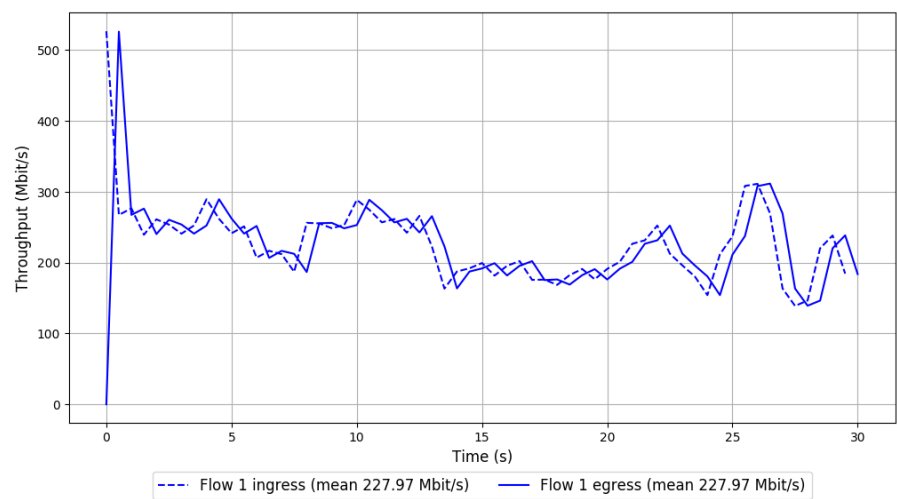
-- Flow 1:

Average throughput: 227.97 Mbit/s

95th percentile per-packet one-way delay: 1.000 ms

Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link

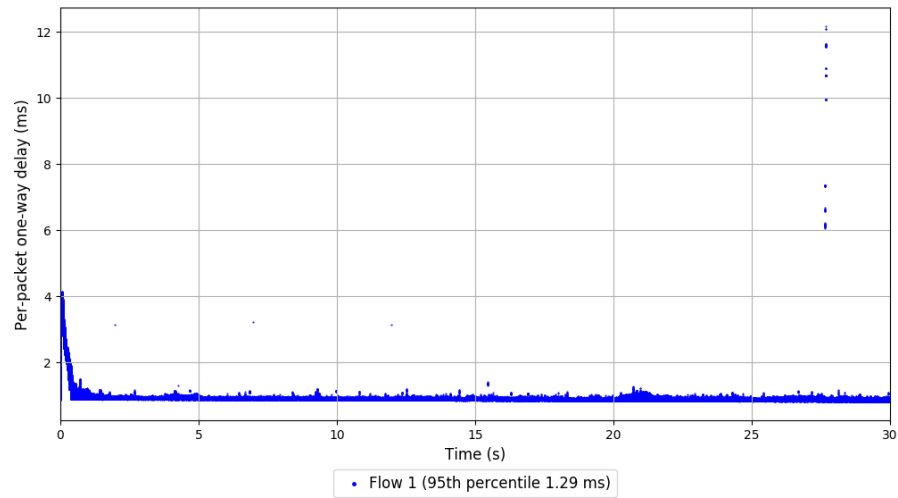
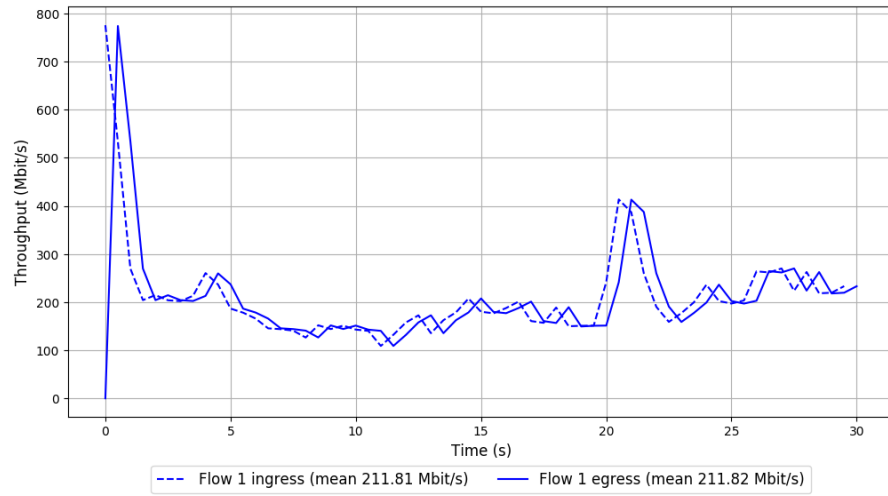


Run 3: Statistics of TCP Vegas

Start at: 2019-02-11 23:58:29
End at: 2019-02-11 23:58:59
Local clock offset: 4.103 ms
Remote clock offset: -3.686 ms

Below is generated by plot.py at 2019-02-12 01:55:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 211.82 Mbit/s
95th percentile per-packet one-way delay: 1.289 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 211.82 Mbit/s
95th percentile per-packet one-way delay: 1.289 ms
Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-02-12 00:27:43

End at: 2019-02-12 00:28:13

Local clock offset: 5.609 ms

Remote clock offset: 0.173 ms

Below is generated by plot.py at 2019-02-12 01:55:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.59 Mbit/s

95th percentile per-packet one-way delay: 1.247 ms

Loss rate: 0.01%

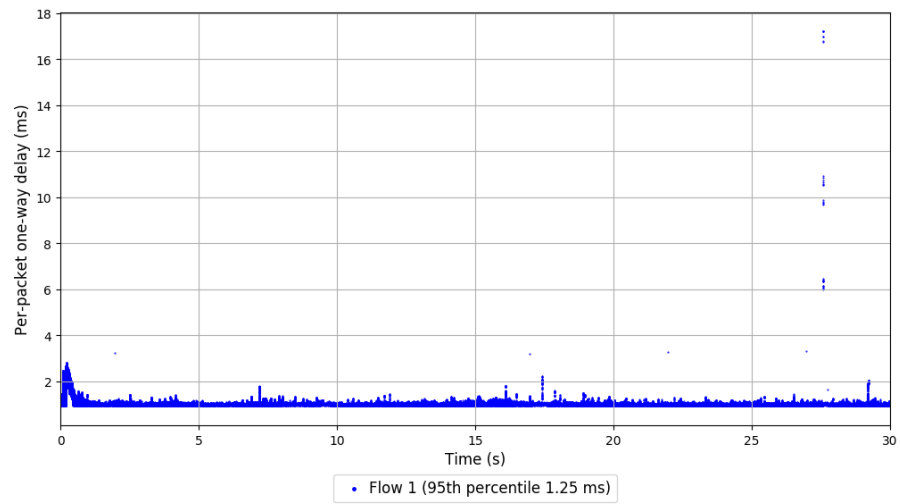
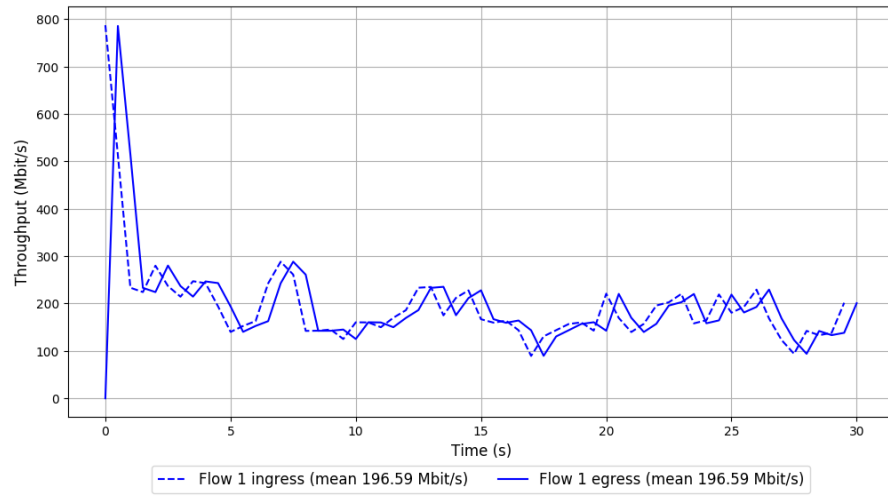
-- Flow 1:

Average throughput: 196.59 Mbit/s

95th percentile per-packet one-way delay: 1.247 ms

Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link

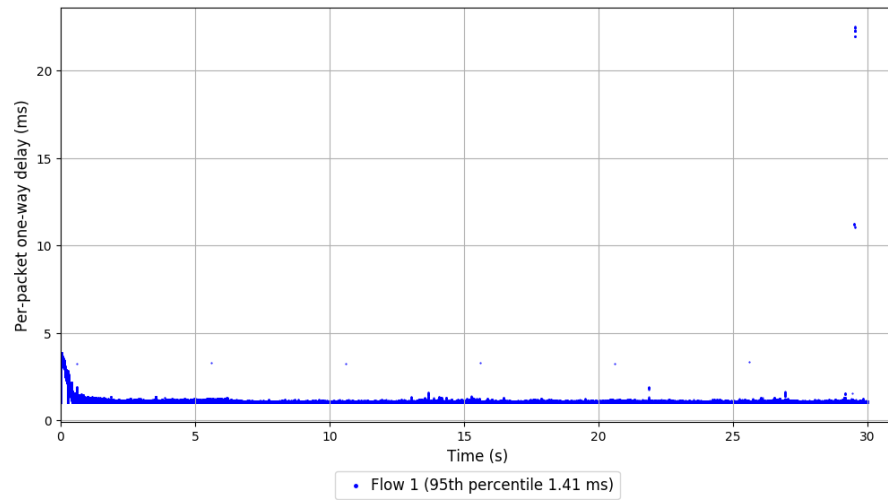
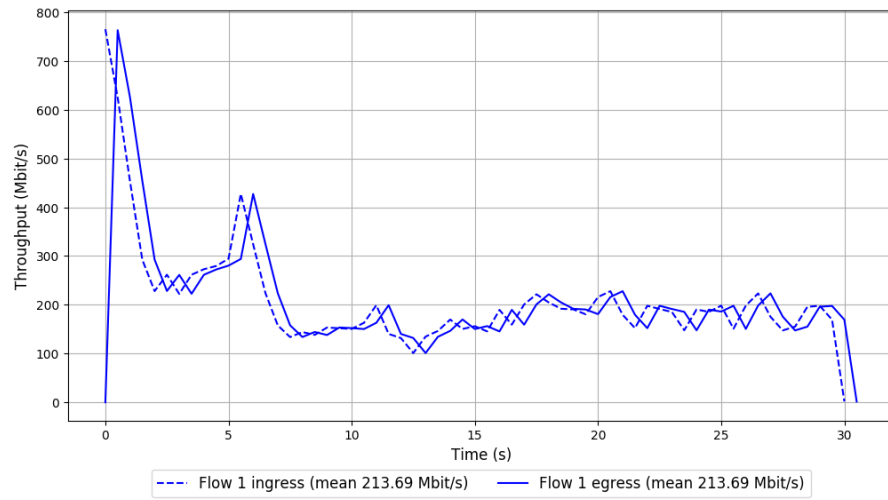


Run 5: Statistics of TCP Vegas

Start at: 2019-02-12 00:57:14
End at: 2019-02-12 00:57:44
Local clock offset: -0.765 ms
Remote clock offset: -3.155 ms

Below is generated by plot.py at 2019-02-12 01:55:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 213.69 Mbit/s
95th percentile per-packet one-way delay: 1.408 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 213.69 Mbit/s
95th percentile per-packet one-way delay: 1.408 ms
Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link

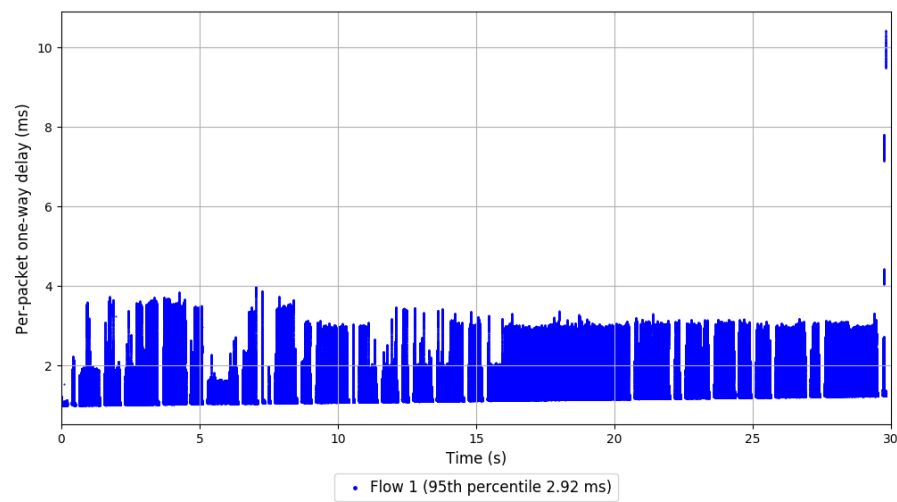
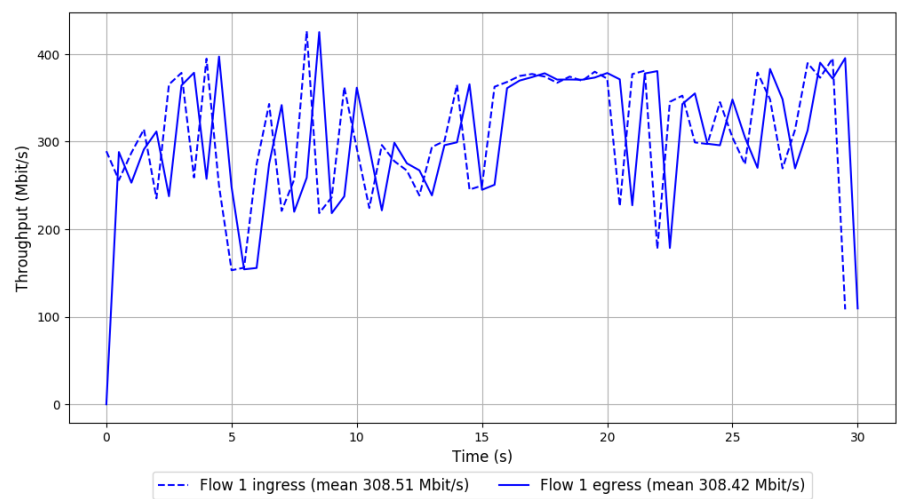


Run 1: Statistics of Verus

Start at: 2019-02-11 22:56:45
End at: 2019-02-11 22:57:15
Local clock offset: 0.204 ms
Remote clock offset: -1.158 ms

Below is generated by plot.py at 2019-02-12 01:57:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 308.42 Mbit/s
95th percentile per-packet one-way delay: 2.921 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 308.42 Mbit/s
95th percentile per-packet one-way delay: 2.921 ms
Loss rate: 0.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-02-11 23:26:15

End at: 2019-02-11 23:26:45

Local clock offset: 0.476 ms

Remote clock offset: 4.882 ms

Below is generated by plot.py at 2019-02-12 01:57:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 309.22 Mbit/s

95th percentile per-packet one-way delay: 2.655 ms

Loss rate: 0.01%

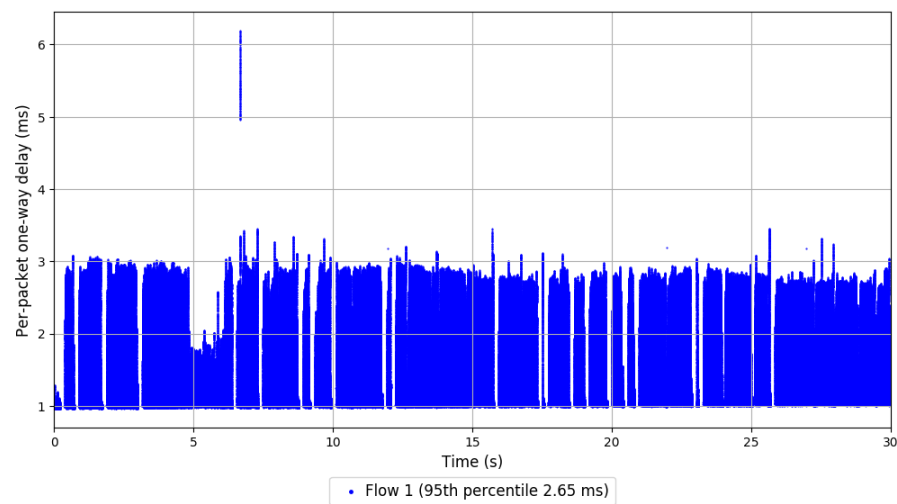
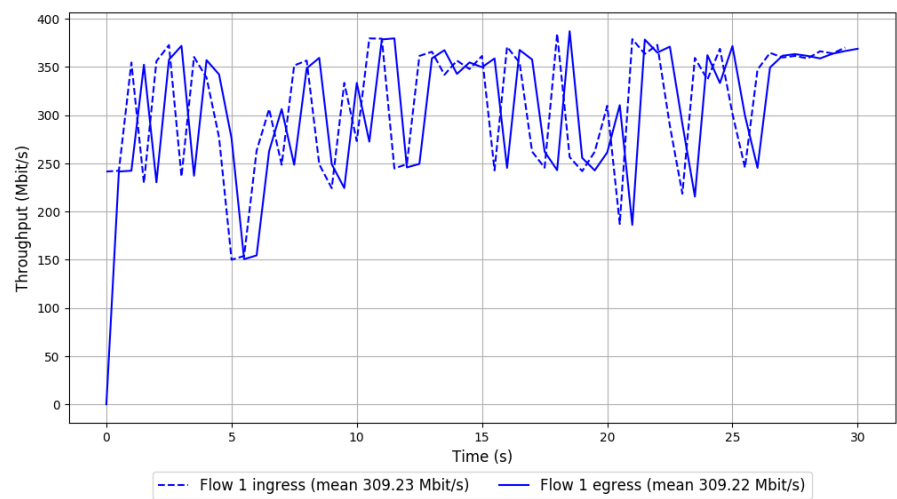
-- Flow 1:

Average throughput: 309.22 Mbit/s

95th percentile per-packet one-way delay: 2.655 ms

Loss rate: 0.01%

Run 2: Report of Verus — Data Link

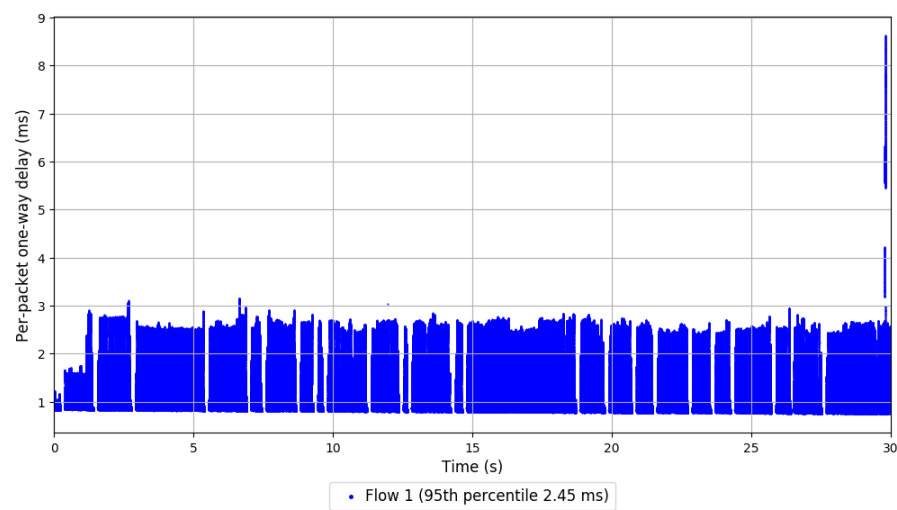
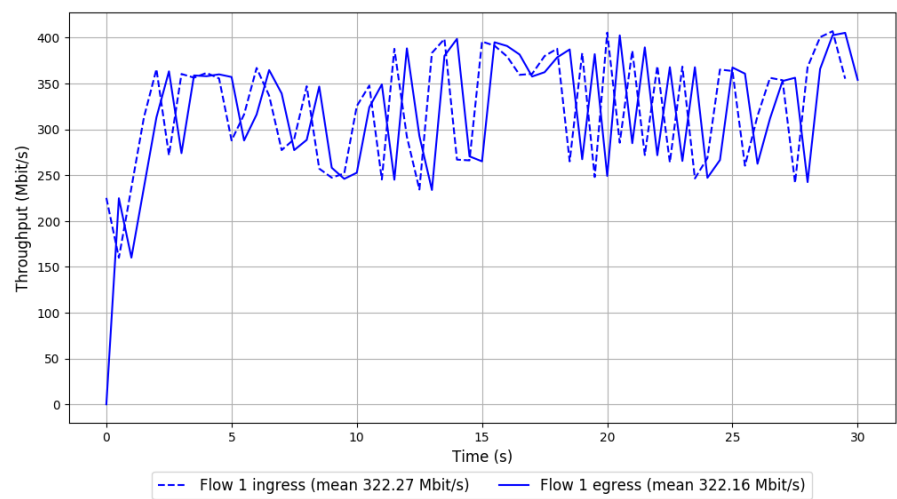


Run 3: Statistics of Verus

Start at: 2019-02-11 23:55:49
End at: 2019-02-11 23:56:19
Local clock offset: 3.924 ms
Remote clock offset: -3.416 ms

Below is generated by plot.py at 2019-02-12 01:57:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 322.16 Mbit/s
95th percentile per-packet one-way delay: 2.446 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 322.16 Mbit/s
95th percentile per-packet one-way delay: 2.446 ms
Loss rate: 0.03%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-02-12 00:25:03

End at: 2019-02-12 00:25:33

Local clock offset: 5.48 ms

Remote clock offset: 0.168 ms

Below is generated by plot.py at 2019-02-12 01:58:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 308.16 Mbit/s

95th percentile per-packet one-way delay: 2.507 ms

Loss rate: 0.03%

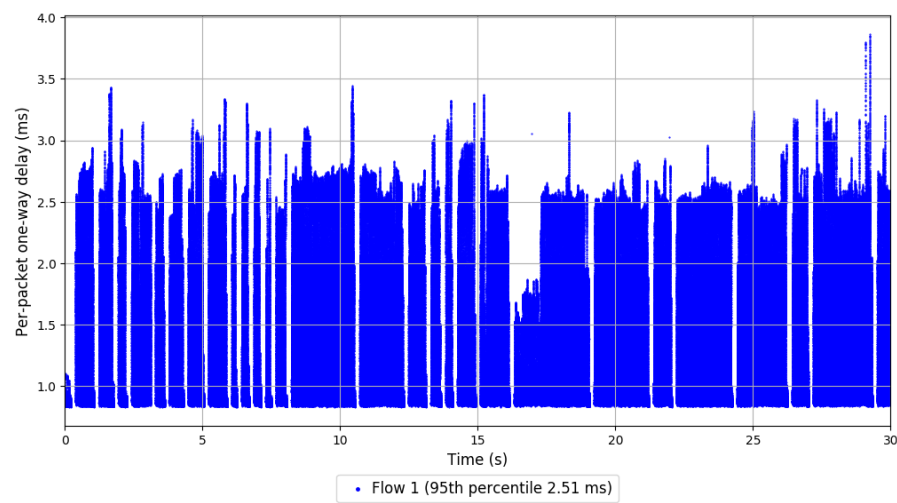
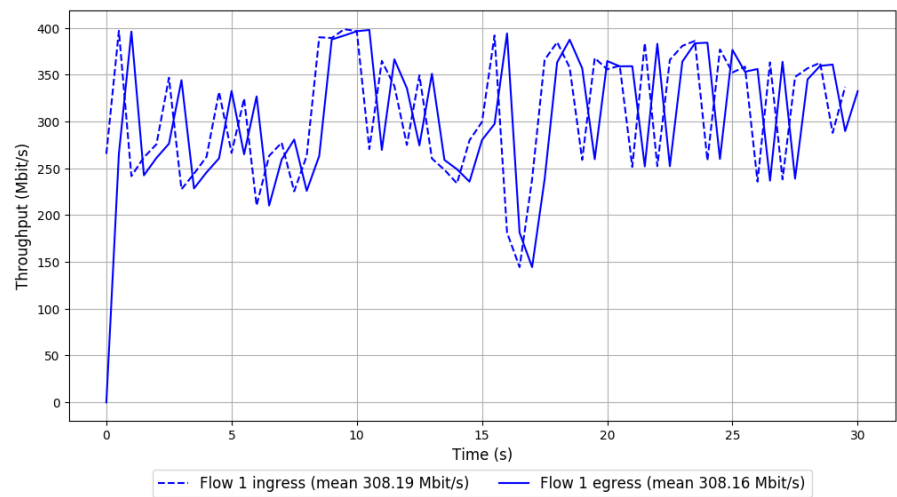
-- Flow 1:

Average throughput: 308.16 Mbit/s

95th percentile per-packet one-way delay: 2.507 ms

Loss rate: 0.03%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-02-12 00:54:39

End at: 2019-02-12 00:55:09

Local clock offset: -0.48 ms

Remote clock offset: -2.84 ms

Below is generated by plot.py at 2019-02-12 01:58:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.86 Mbit/s

95th percentile per-packet one-way delay: 1.991 ms

Loss rate: 0.01%

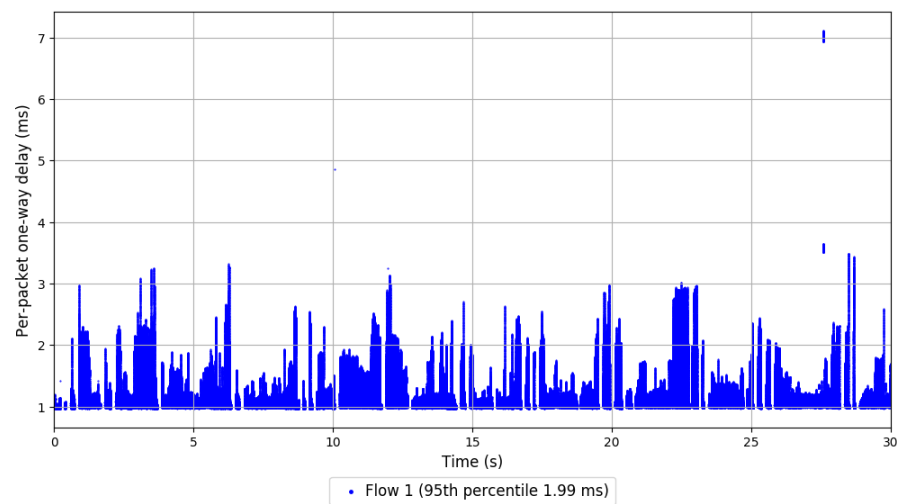
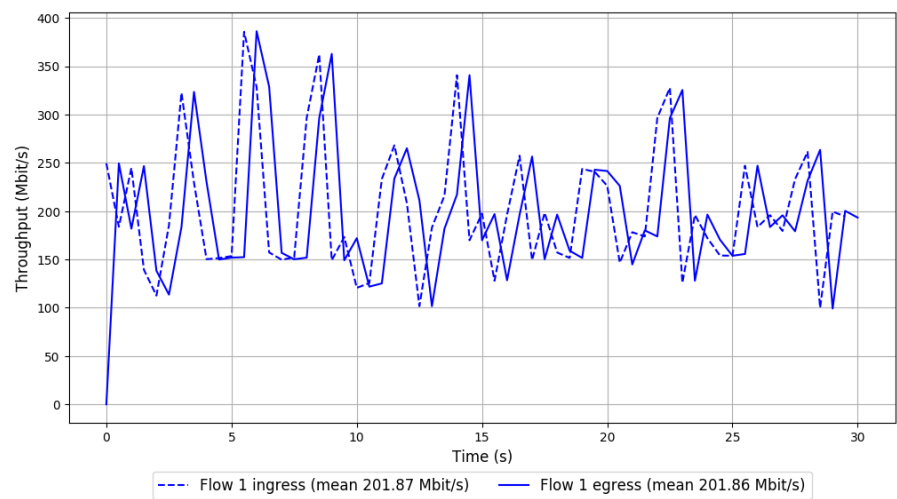
-- Flow 1:

Average throughput: 201.86 Mbit/s

95th percentile per-packet one-way delay: 1.991 ms

Loss rate: 0.01%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-02-11 22:49:34

End at: 2019-02-11 22:50:04

Local clock offset: -0.277 ms

Remote clock offset: -1.476 ms

Below is generated by plot.py at 2019-02-12 01:58:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.55 Mbit/s

95th percentile per-packet one-way delay: 0.880 ms

Loss rate: 0.02%

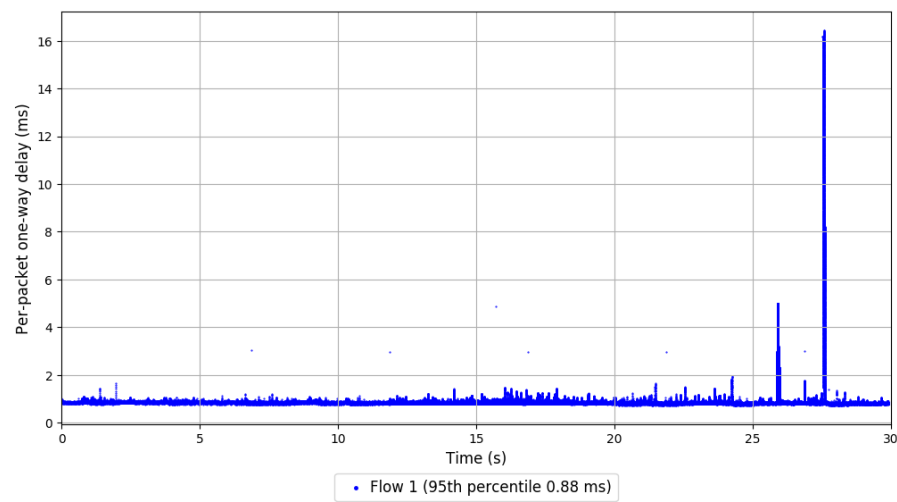
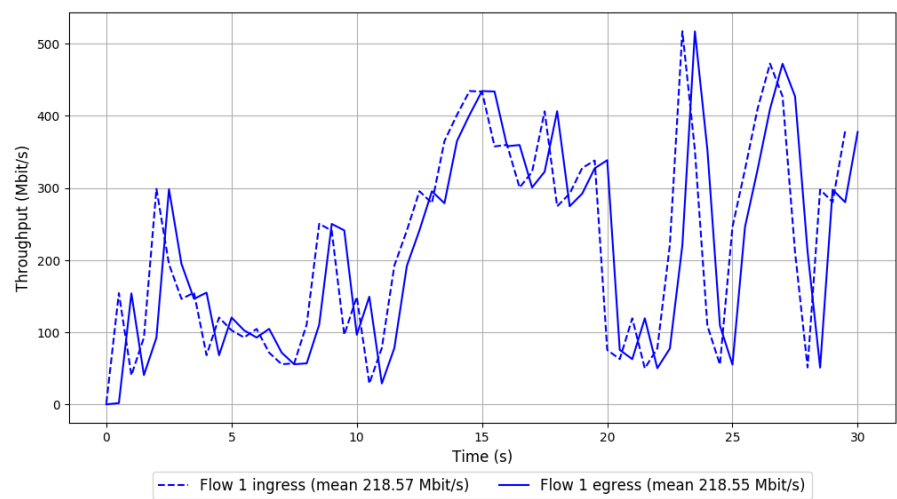
-- Flow 1:

Average throughput: 218.55 Mbit/s

95th percentile per-packet one-way delay: 0.880 ms

Loss rate: 0.02%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-02-11 23:18:57

End at: 2019-02-11 23:19:27

Local clock offset: 0.473 ms

Remote clock offset: 4.125 ms

Below is generated by plot.py at 2019-02-12 01:58:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.29 Mbit/s

95th percentile per-packet one-way delay: 1.152 ms

Loss rate: 0.00%

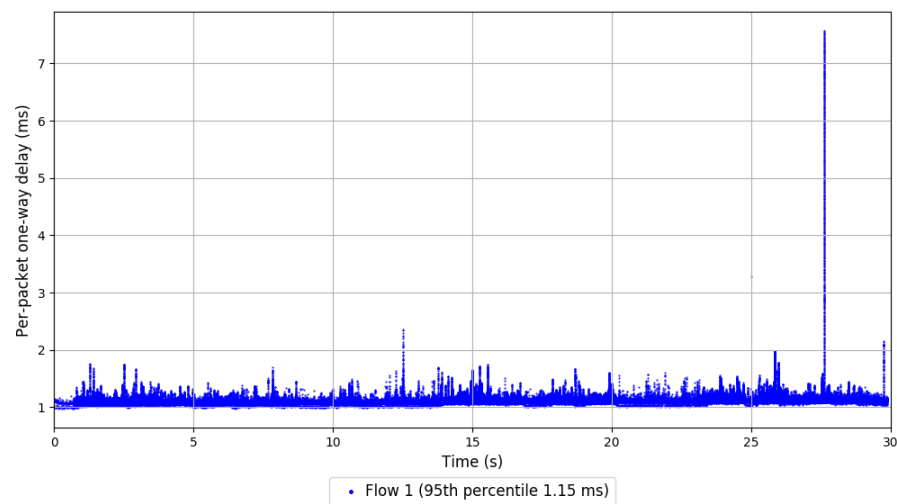
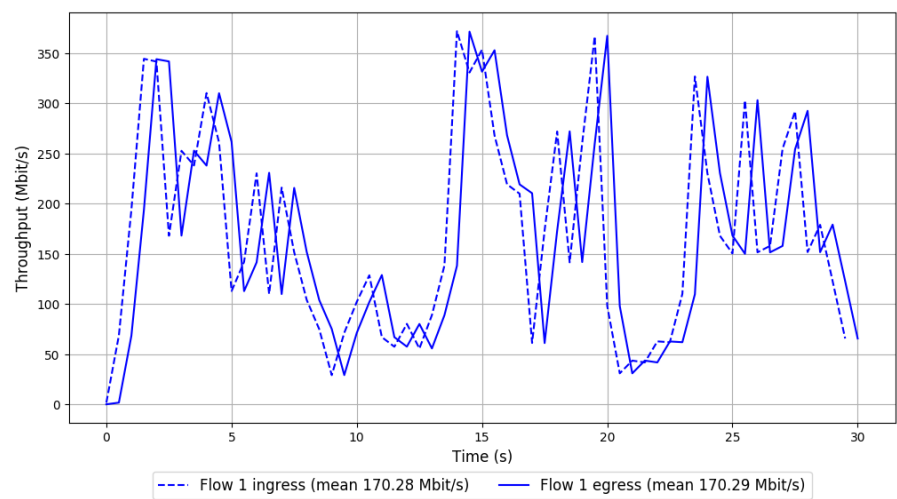
-- Flow 1:

Average throughput: 170.29 Mbit/s

95th percentile per-packet one-way delay: 1.152 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-02-11 23:48:30

End at: 2019-02-11 23:49:00

Local clock offset: 3.309 ms

Remote clock offset: -2.677 ms

Below is generated by plot.py at 2019-02-12 01:58:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 293.62 Mbit/s

95th percentile per-packet one-way delay: 0.908 ms

Loss rate: 0.00%

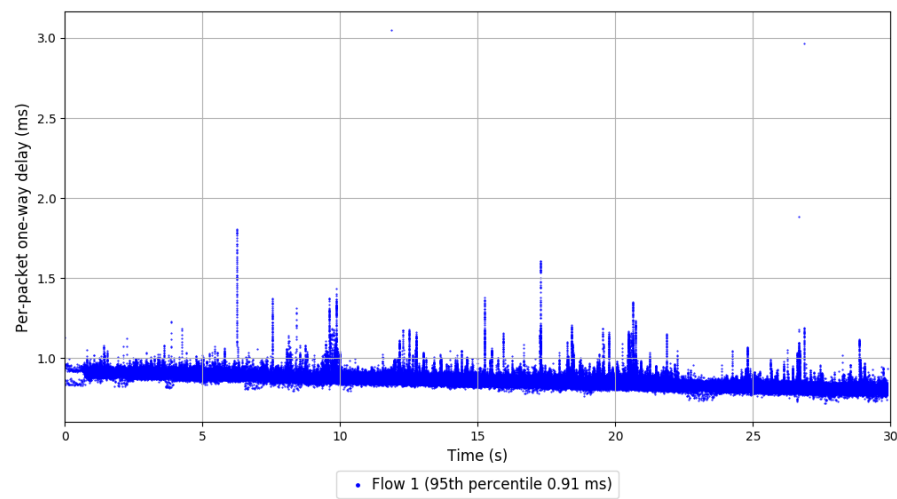
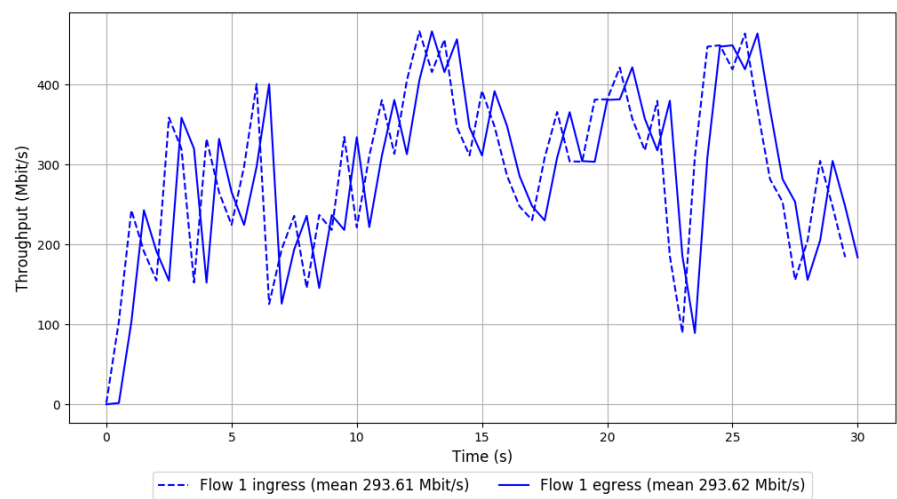
-- Flow 1:

Average throughput: 293.62 Mbit/s

95th percentile per-packet one-way delay: 0.908 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-02-12 00:17:53

End at: 2019-02-12 00:18:23

Local clock offset: 5.132 ms

Remote clock offset: -0.463 ms

Below is generated by plot.py at 2019-02-12 01:58:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 157.63 Mbit/s

95th percentile per-packet one-way delay: 0.928 ms

Loss rate: 0.01%

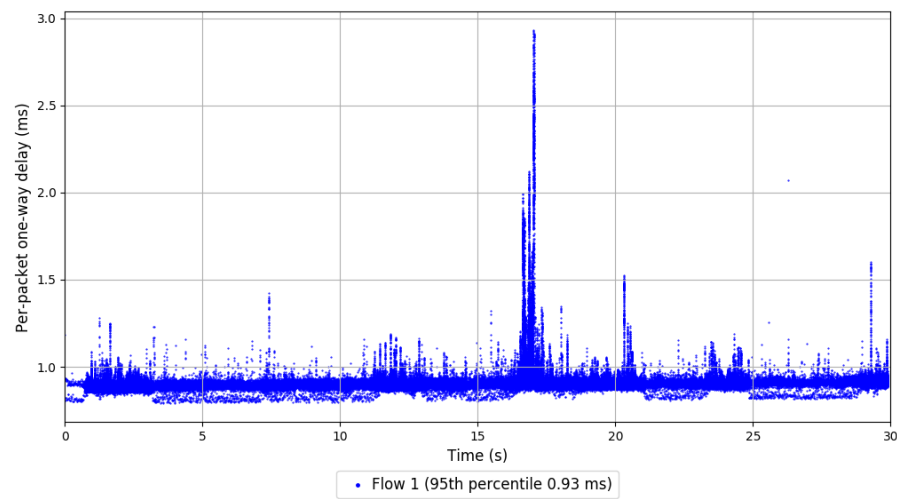
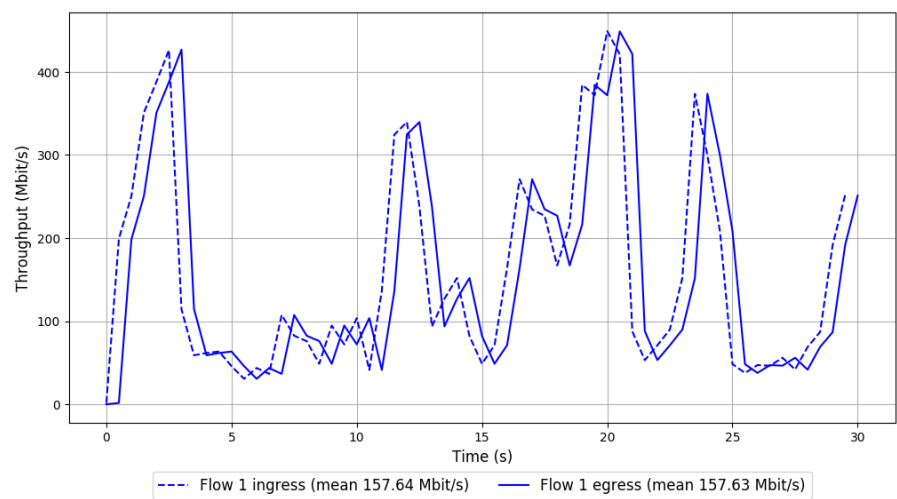
-- Flow 1:

Average throughput: 157.63 Mbit/s

95th percentile per-packet one-way delay: 0.928 ms

Loss rate: 0.01%

Run 4: Report of PCC-Vivace — Data Link

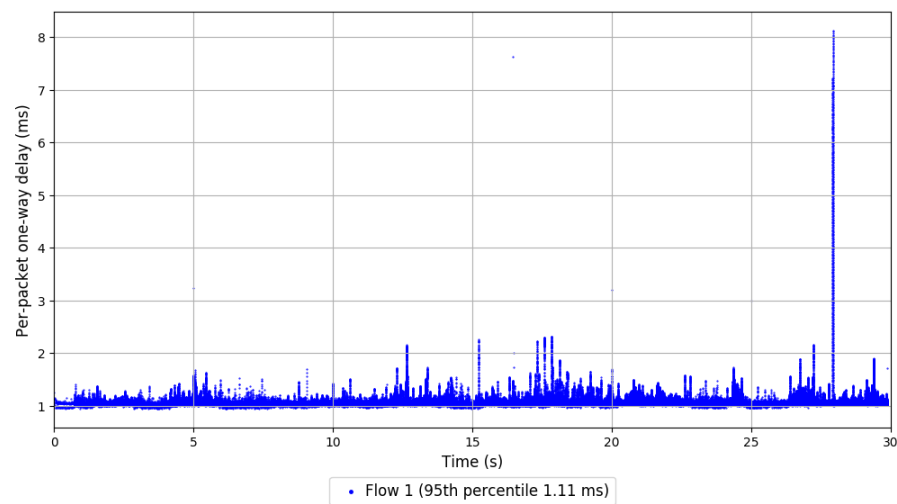
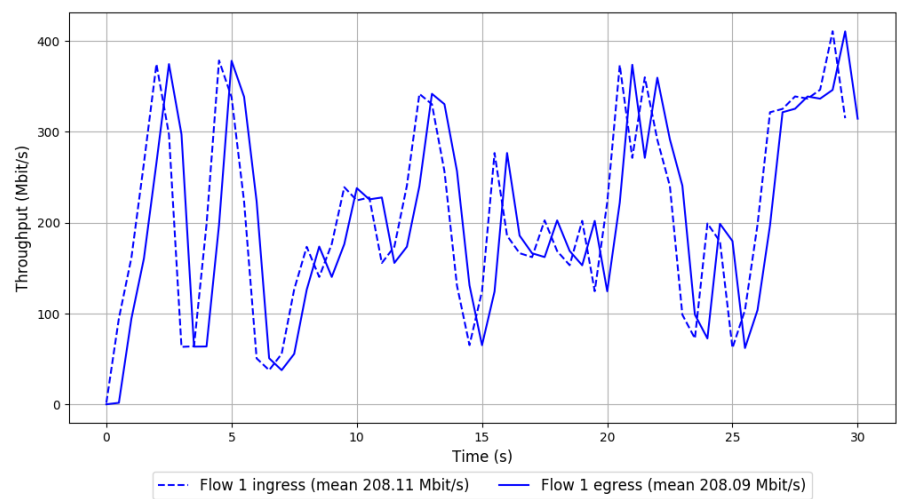


Run 5: Statistics of PCC-Vivace

Start at: 2019-02-12 00:47:27
End at: 2019-02-12 00:47:57
Local clock offset: 0.665 ms
Remote clock offset: -1.862 ms

Below is generated by plot.py at 2019-02-12 01:58:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 208.09 Mbit/s
95th percentile per-packet one-way delay: 1.110 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 208.09 Mbit/s
95th percentile per-packet one-way delay: 1.110 ms
Loss rate: 0.01%

Run 5: Report of PCC-Vivace — Data Link

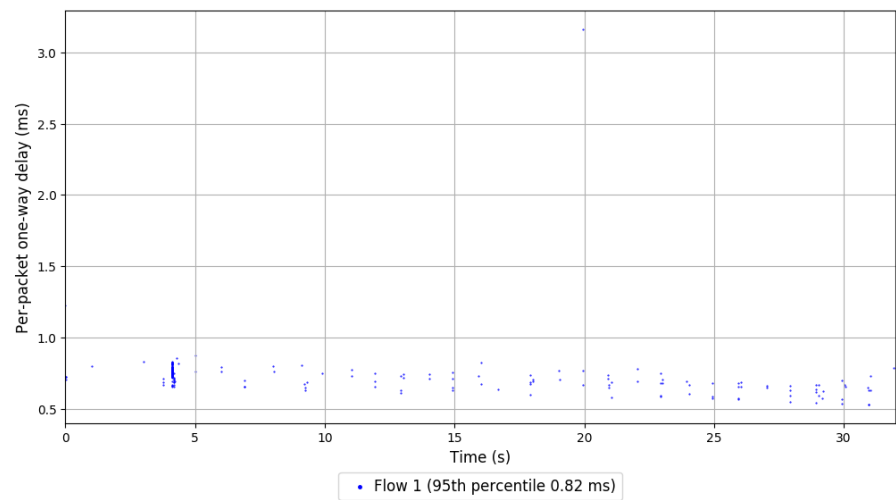
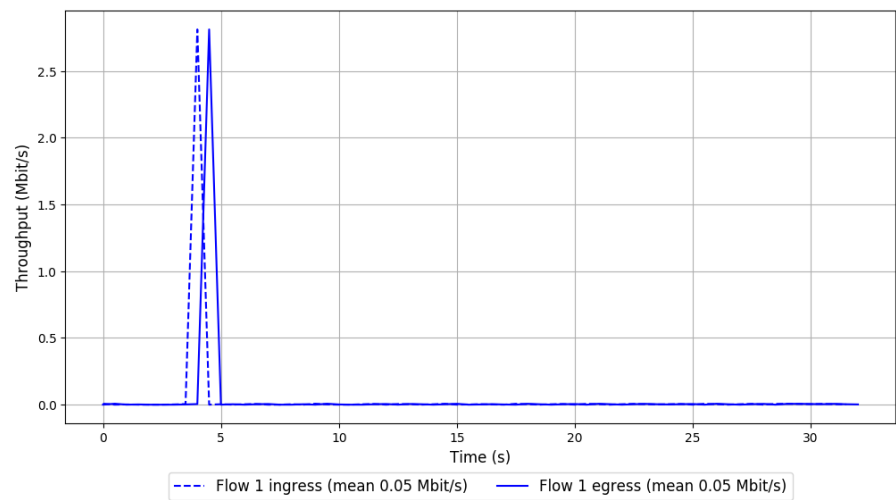


Run 1: Statistics of WebRTC media

Start at: 2019-02-11 22:39:46
End at: 2019-02-11 22:40:16
Local clock offset: -1.812 ms
Remote clock offset: -0.949 ms

Below is generated by plot.py at 2019-02-12 01:58:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 0.823 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 0.823 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-02-11 23:09:11

End at: 2019-02-11 23:09:41

Local clock offset: 0.424 ms

Remote clock offset: 2.814 ms

Below is generated by plot.py at 2019-02-12 01:58:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.191 ms

Loss rate: 0.00%

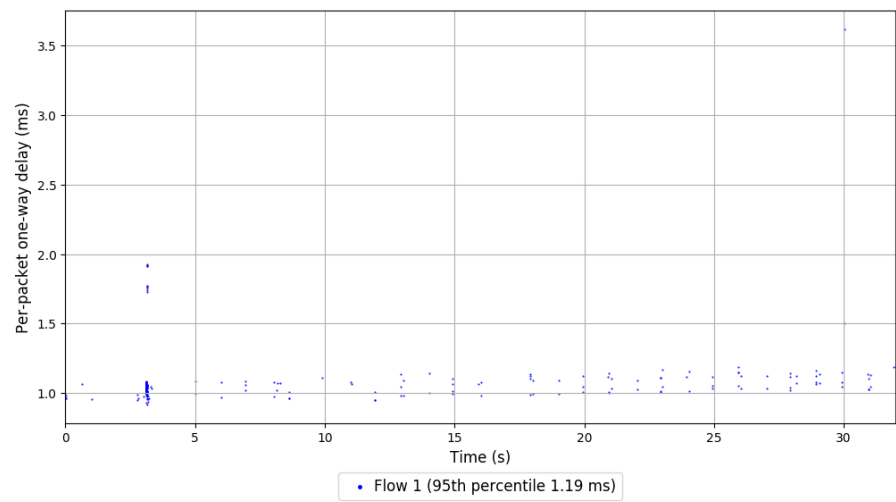
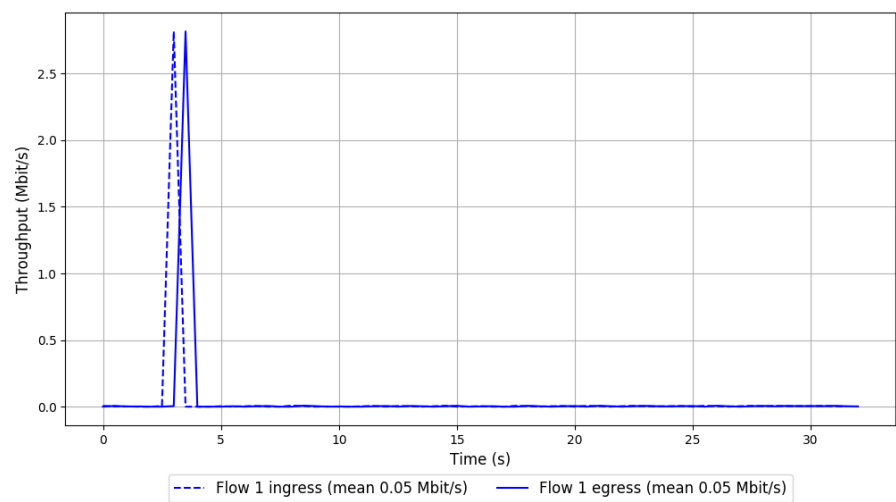
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.191 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

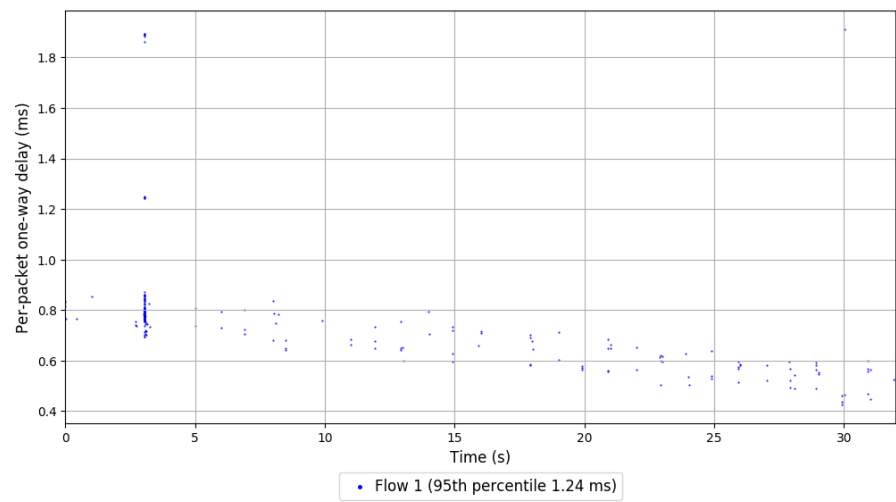
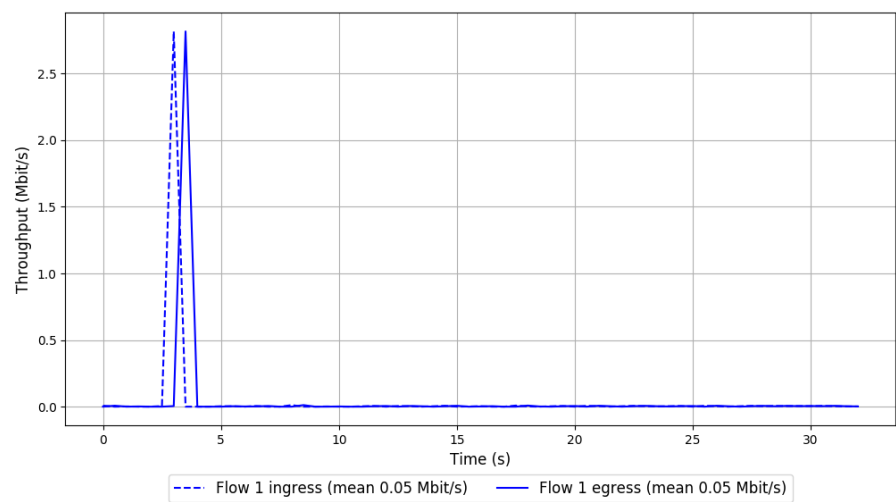


Run 3: Statistics of WebRTC media

Start at: 2019-02-11 23:38:52
End at: 2019-02-11 23:39:22
Local clock offset: 1.774 ms
Remote clock offset: -0.324 ms

Below is generated by plot.py at 2019-02-12 01:58:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.242 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.242 ms
Loss rate: 0.05%

Run 3: Report of WebRTC media — Data Link

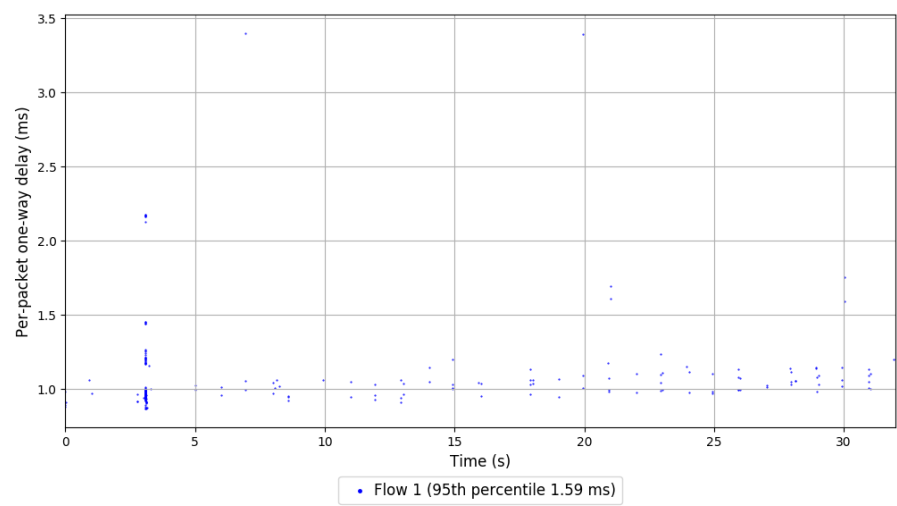
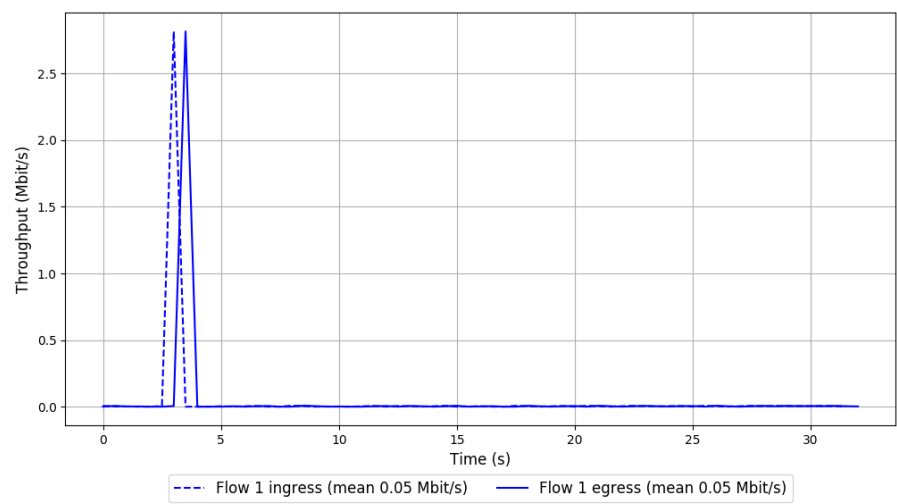


Run 4: Statistics of WebRTC media

Start at: 2019-02-12 00:08:25
End at: 2019-02-12 00:08:55
Local clock offset: 4.66 ms
Remote clock offset: -2.296 ms

Below is generated by plot.py at 2019-02-12 01:58:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.593 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.593 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-02-12 00:37:40

End at: 2019-02-12 00:38:10

Local clock offset: 3.885 ms

Remote clock offset: 0.511 ms

Below is generated by plot.py at 2019-02-12 01:58:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.684 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.684 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

