

Pantheon Report

Generated at 2019-02-05 16:26:33 (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:

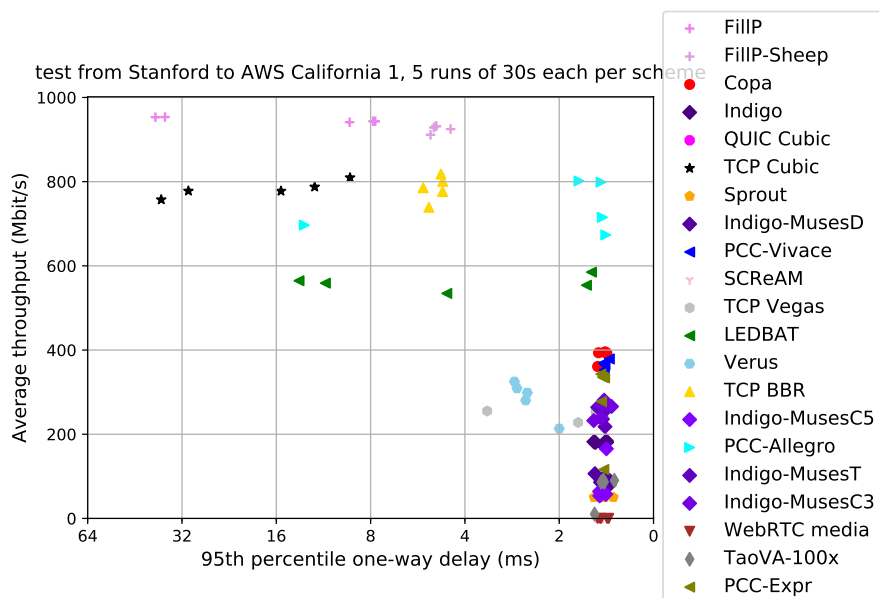
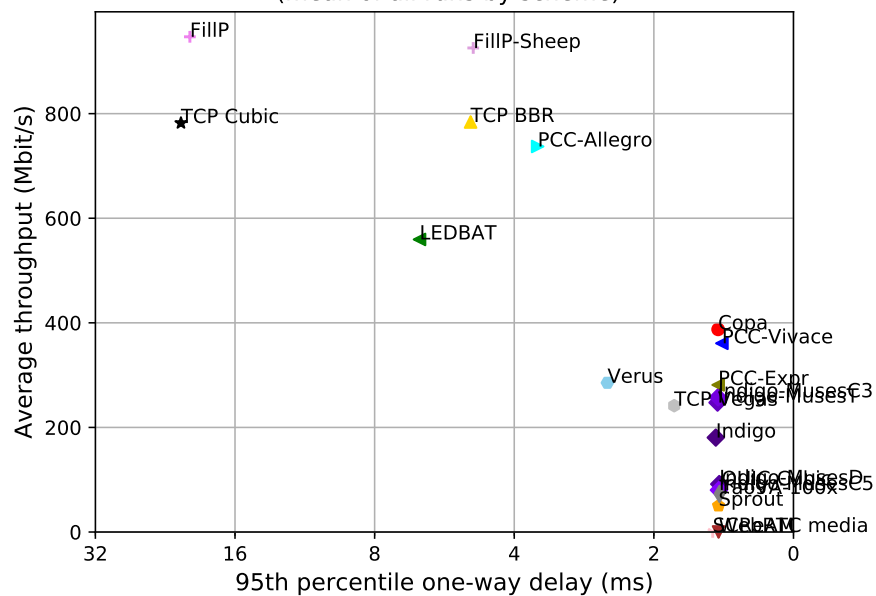
```
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

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	784.04	4.97	0.02
Copa	5	387.47	1.08	0.01
TCP Cubic	5	782.01	20.93	0.03
FillP	5	946.94	20.02	0.10
FillP-Sheep	5	925.62	4.90	0.01
Indigo	5	180.58	1.11	0.01
Indigo-MusesC3	5	257.58	1.08	0.00
Indigo-MusesC5	5	80.24	1.07	0.00
Indigo-MusesD	5	91.64	1.06	0.00
Indigo-MusesT	5	247.50	1.09	0.01
LEDBAT	5	559.44	6.40	0.01
PCC-Allegro	5	737.21	3.56	0.12
PCC-Expr	5	281.28	1.08	0.02
QUIC Cubic	5	89.66	1.03	0.01
SCReAM	5	0.22	1.16	0.03
Sprout	5	50.25	1.07	0.00
TaoVA-100x	5	72.83	1.06	0.01
TCP Vegas	5	241.55	1.71	0.01
Verus	5	285.34	2.52	0.00
PCC-Vivace	5	360.82	1.03	0.01
WebRTC media	5	0.05	1.07	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-02-05 13:17:50

End at: 2019-02-05 13:18:20

Local clock offset: 0.538 ms

Remote clock offset: 0.692 ms

Below is generated by plot.py at 2019-02-05 15:37:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 818.00 Mbit/s

95th percentile per-packet one-way delay: 4.770 ms

Loss rate: 0.02%

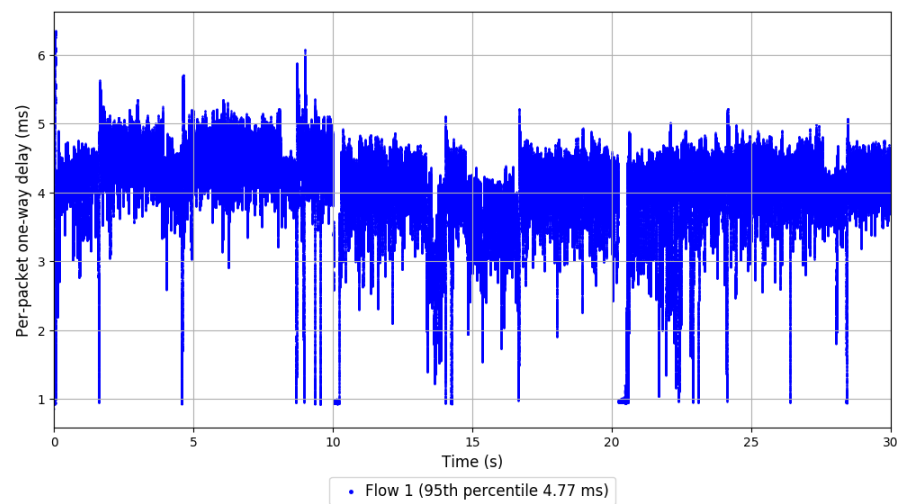
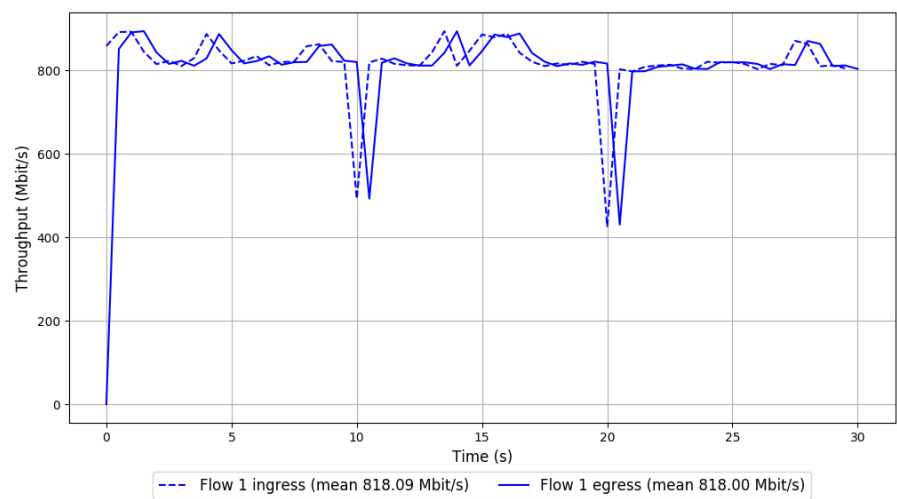
-- Flow 1:

Average throughput: 818.00 Mbit/s

95th percentile per-packet one-way delay: 4.770 ms

Loss rate: 0.02%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-02-05 13:47:48

End at: 2019-02-05 13:48:18

Local clock offset: 0.134 ms

Remote clock offset: 1.81 ms

Below is generated by plot.py at 2019-02-05 15:37:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 776.69 Mbit/s

95th percentile per-packet one-way delay: 4.714 ms

Loss rate: 0.02%

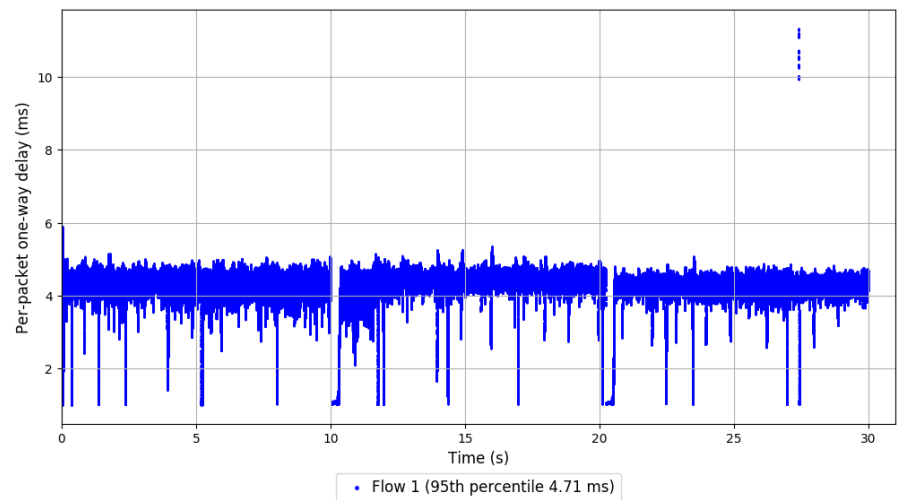
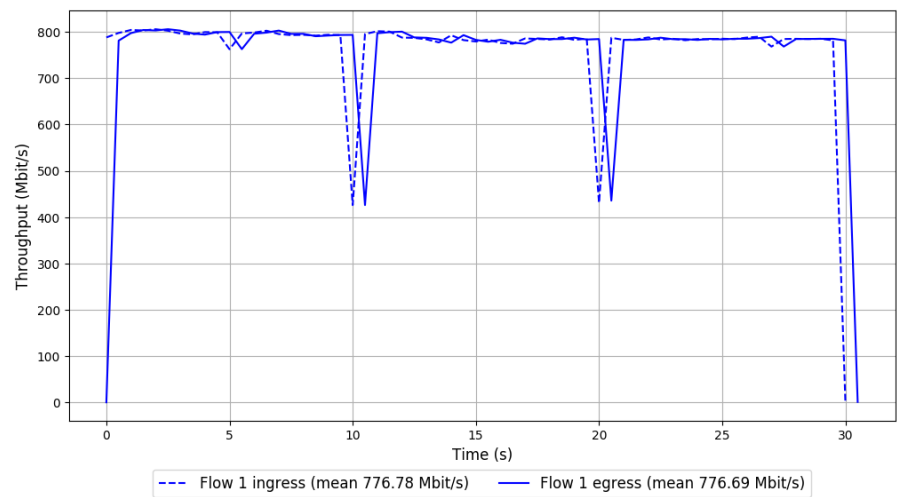
-- Flow 1:

Average throughput: 776.69 Mbit/s

95th percentile per-packet one-way delay: 4.714 ms

Loss rate: 0.02%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-02-05 14:17:40

End at: 2019-02-05 14:18:10

Local clock offset: 0.021 ms

Remote clock offset: -4.314 ms

Below is generated by plot.py at 2019-02-05 15:37:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 800.85 Mbit/s

95th percentile per-packet one-way delay: 4.708 ms

Loss rate: 0.02%

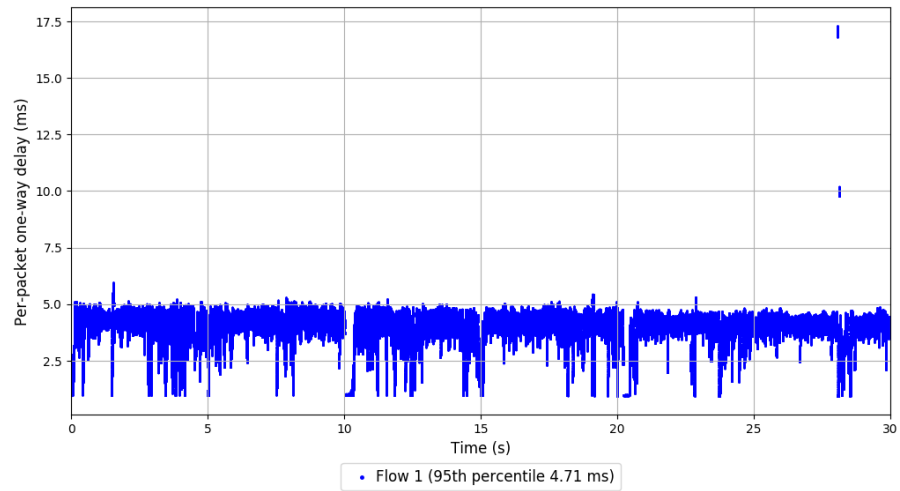
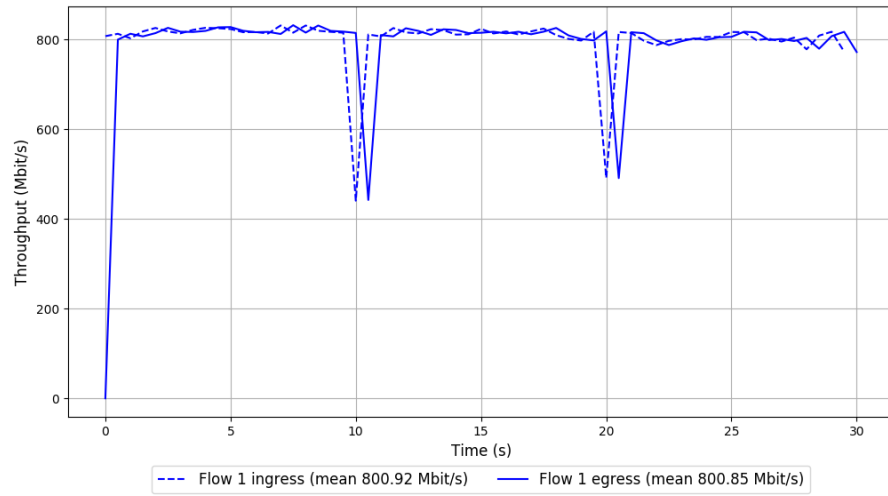
-- Flow 1:

Average throughput: 800.85 Mbit/s

95th percentile per-packet one-way delay: 4.708 ms

Loss rate: 0.02%

Run 3: Report of TCP BBR — Data Link

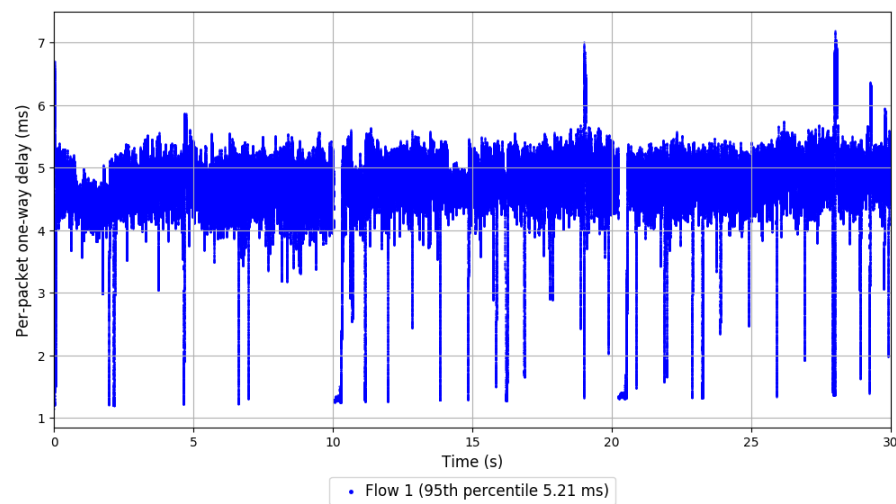
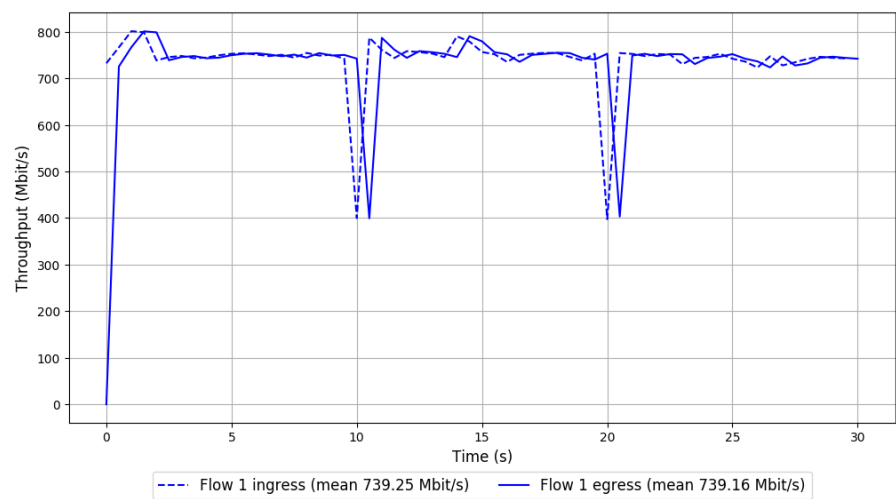


Run 4: Statistics of TCP BBR

Start at: 2019-02-05 14:47:28
End at: 2019-02-05 14:47:58
Local clock offset: -0.252 ms
Remote clock offset: -0.189 ms

Below is generated by plot.py at 2019-02-05 15:37:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 739.16 Mbit/s
95th percentile per-packet one-way delay: 5.213 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 739.16 Mbit/s
95th percentile per-packet one-way delay: 5.213 ms
Loss rate: 0.02%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-02-05 15:17:06

End at: 2019-02-05 15:17:36

Local clock offset: -3.978 ms

Remote clock offset: 0.582 ms

Below is generated by plot.py at 2019-02-05 15:37:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 785.50 Mbit/s

95th percentile per-packet one-way delay: 5.436 ms

Loss rate: 0.02%

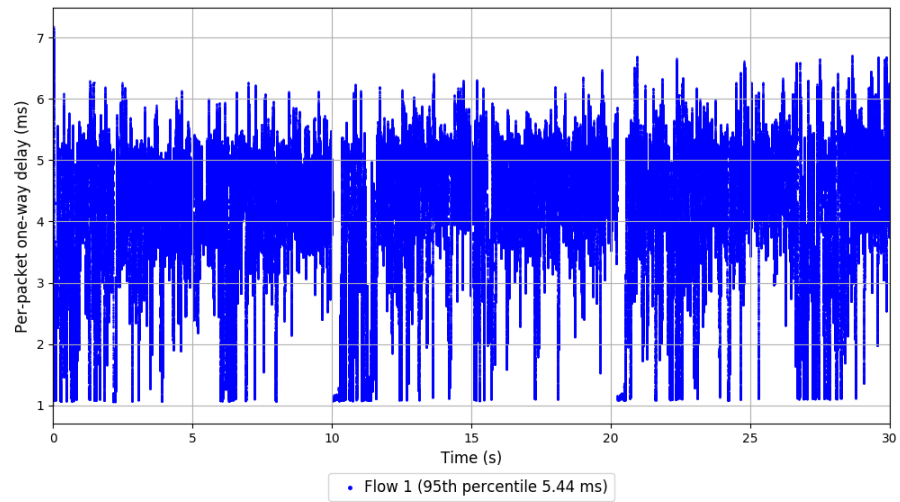
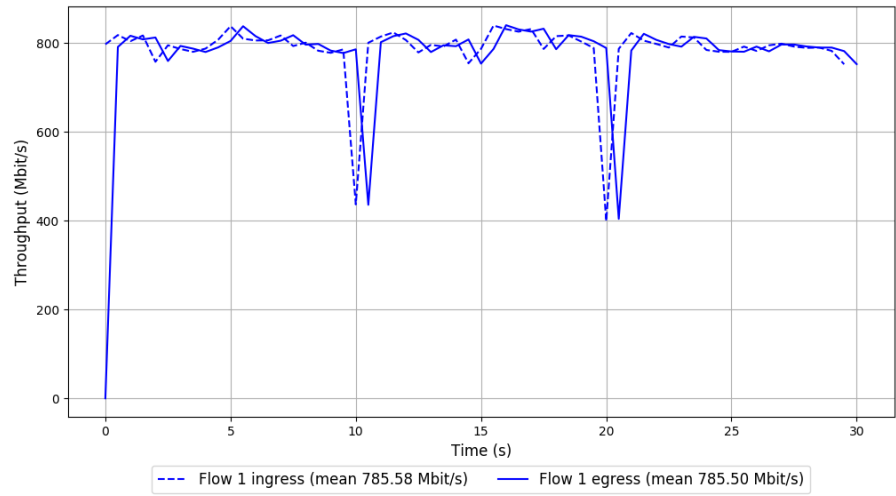
-- Flow 1:

Average throughput: 785.50 Mbit/s

95th percentile per-packet one-way delay: 5.436 ms

Loss rate: 0.02%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-02-05 13:01:42

End at: 2019-02-05 13:02:12

Local clock offset: 0.53 ms

Remote clock offset: 0.207 ms

Below is generated by plot.py at 2019-02-05 15:37:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 395.72 Mbit/s

95th percentile per-packet one-way delay: 1.027 ms

Loss rate: 0.01%

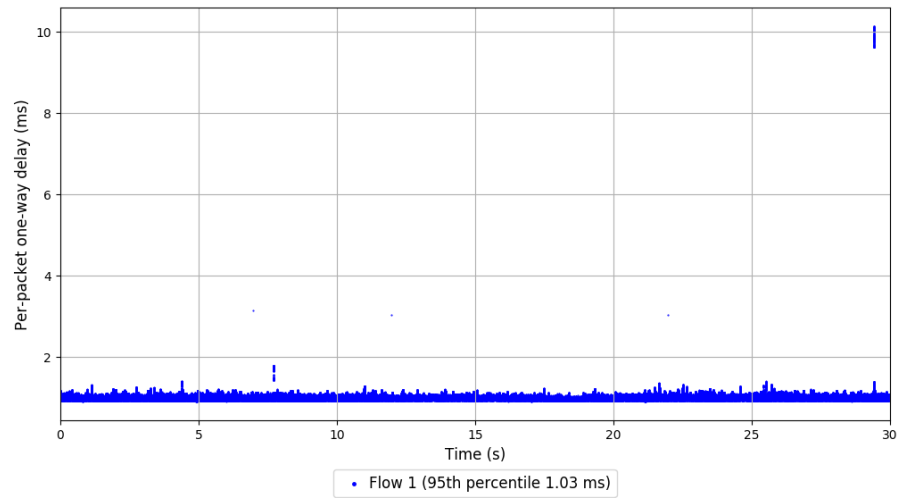
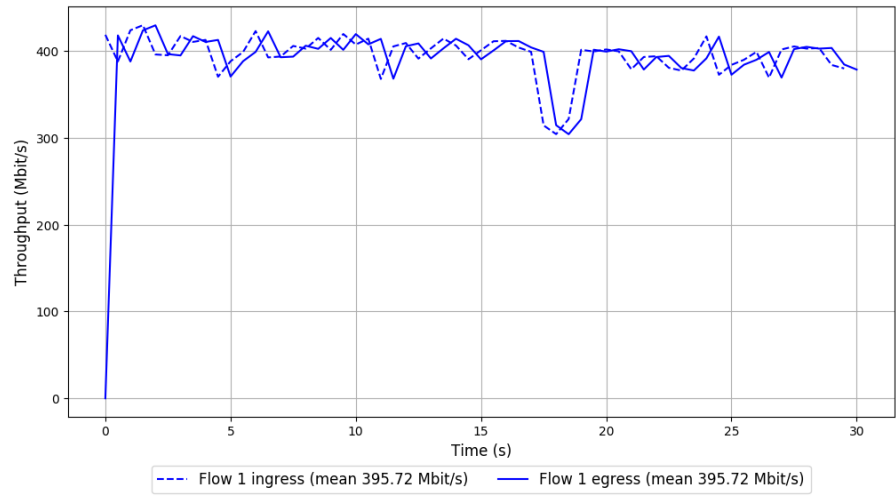
-- Flow 1:

Average throughput: 395.72 Mbit/s

95th percentile per-packet one-way delay: 1.027 ms

Loss rate: 0.01%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-02-05 13:31:37

End at: 2019-02-05 13:32:07

Local clock offset: 0.248 ms

Remote clock offset: 1.231 ms

Below is generated by plot.py at 2019-02-05 15:37:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 393.07 Mbit/s

95th percentile per-packet one-way delay: 0.991 ms

Loss rate: 0.01%

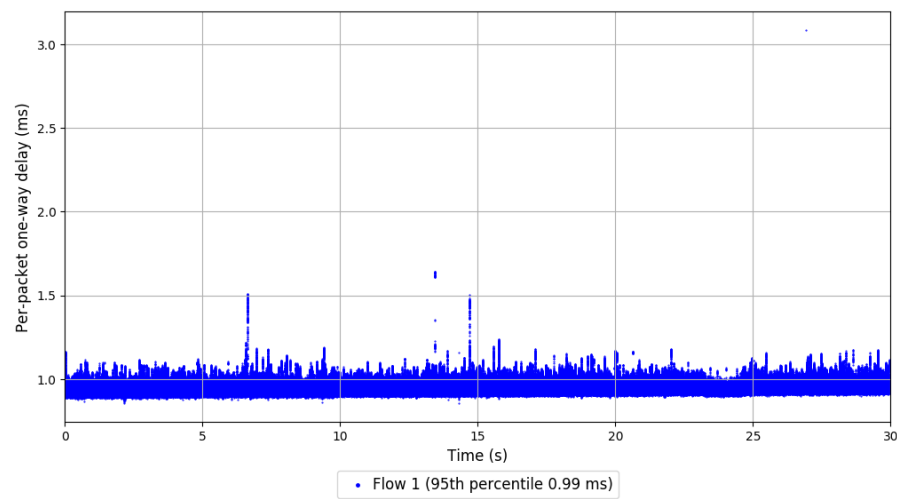
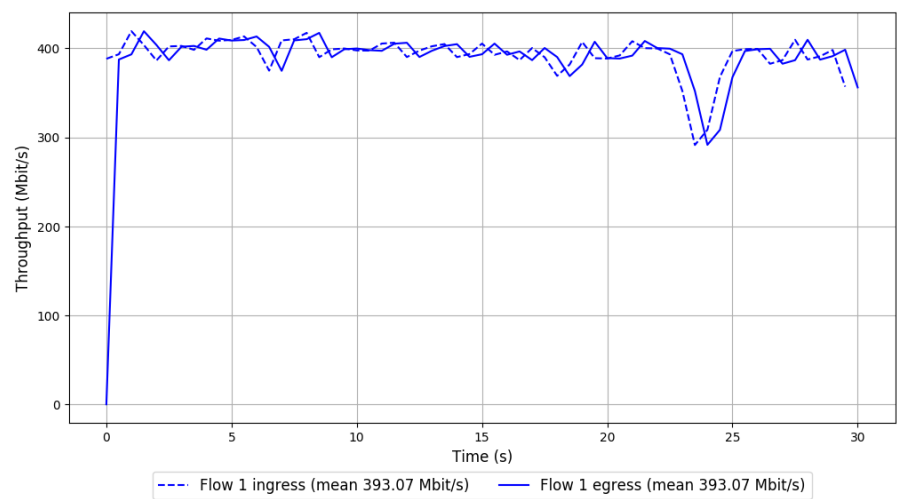
-- Flow 1:

Average throughput: 393.07 Mbit/s

95th percentile per-packet one-way delay: 0.991 ms

Loss rate: 0.01%

Run 2: Report of Copa — Data Link

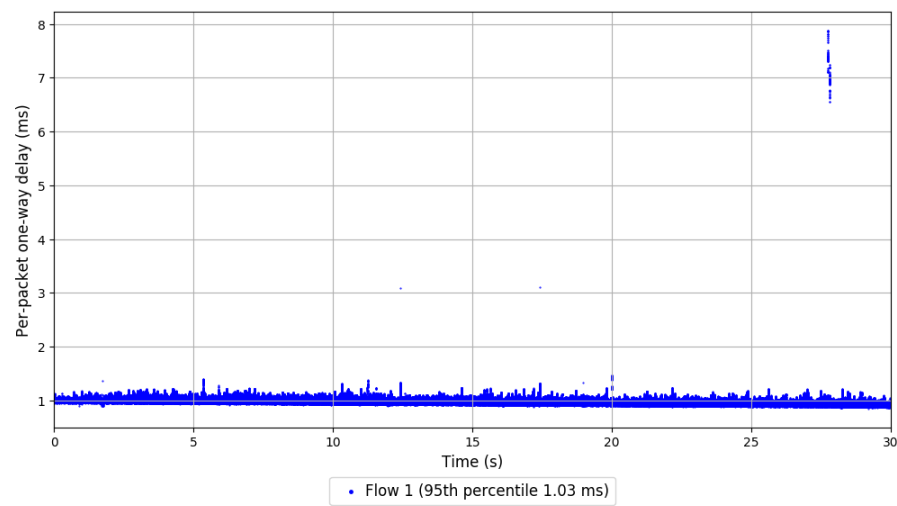
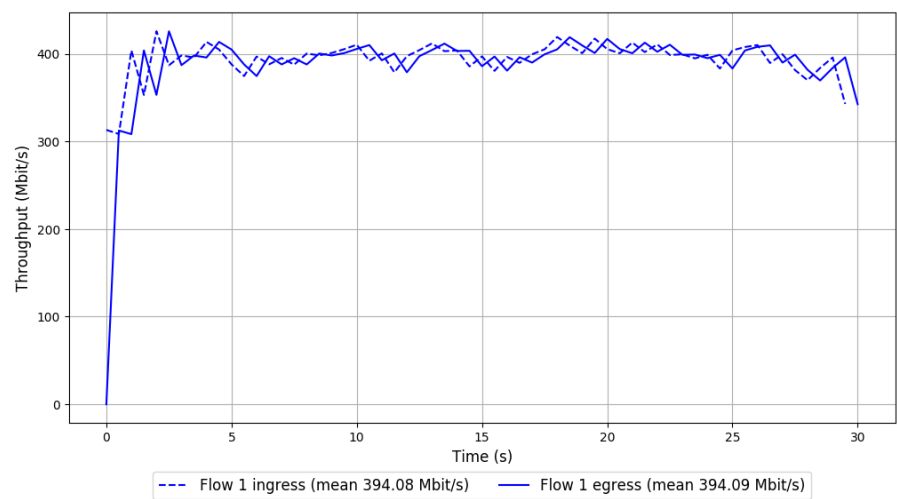


Run 3: Statistics of Copa

Start at: 2019-02-05 14:01:30
End at: 2019-02-05 14:02:00
Local clock offset: 0.048 ms
Remote clock offset: -2.532 ms

Below is generated by plot.py at 2019-02-05 15:37:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 394.09 Mbit/s
95th percentile per-packet one-way delay: 1.028 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 394.09 Mbit/s
95th percentile per-packet one-way delay: 1.028 ms
Loss rate: 0.00%

Run 3: Report of Copa — Data Link

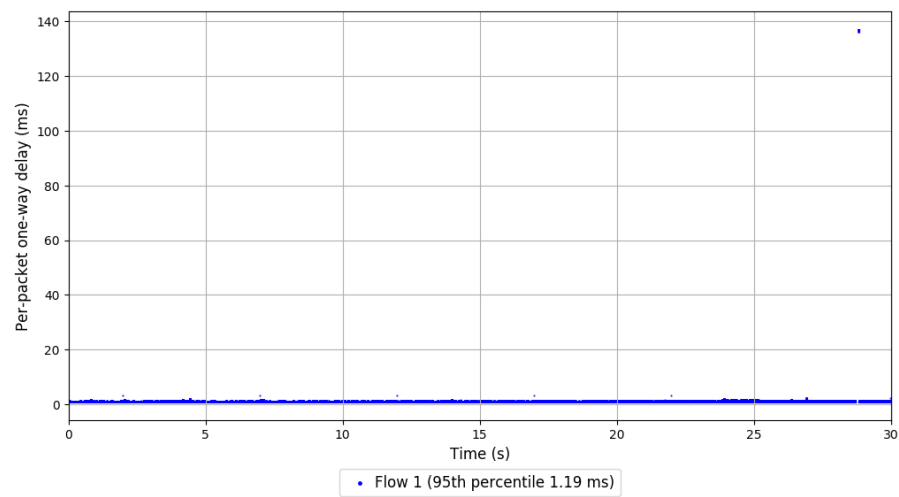
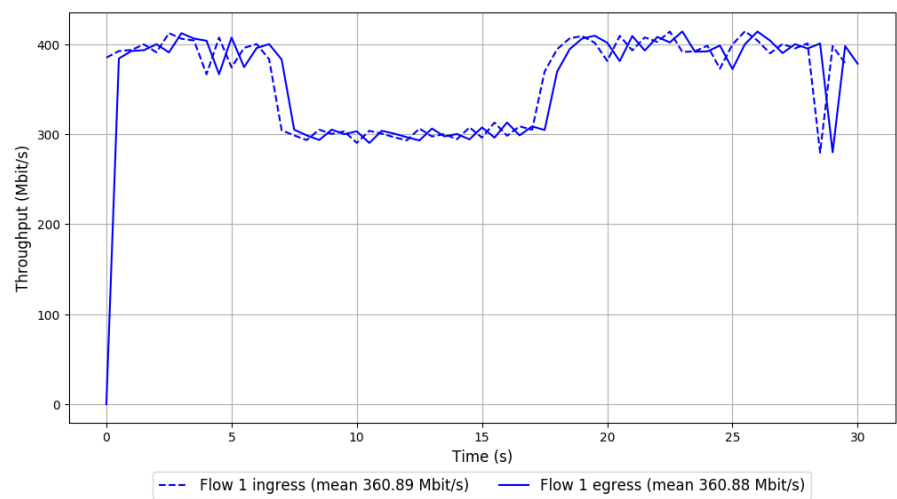


Run 4: Statistics of Copa

Start at: 2019-02-05 14:31:23
End at: 2019-02-05 14:31:53
Local clock offset: 0.22 ms
Remote clock offset: -1.683 ms

Below is generated by plot.py at 2019-02-05 15:44:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 360.88 Mbit/s
95th percentile per-packet one-way delay: 1.186 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 360.88 Mbit/s
95th percentile per-packet one-way delay: 1.186 ms
Loss rate: 0.01%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-02-05 15:01:13

End at: 2019-02-05 15:01:43

Local clock offset: -2.885 ms

Remote clock offset: 0.243 ms

Below is generated by plot.py at 2019-02-05 15:44:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 393.58 Mbit/s

95th percentile per-packet one-way delay: 1.167 ms

Loss rate: 0.01%

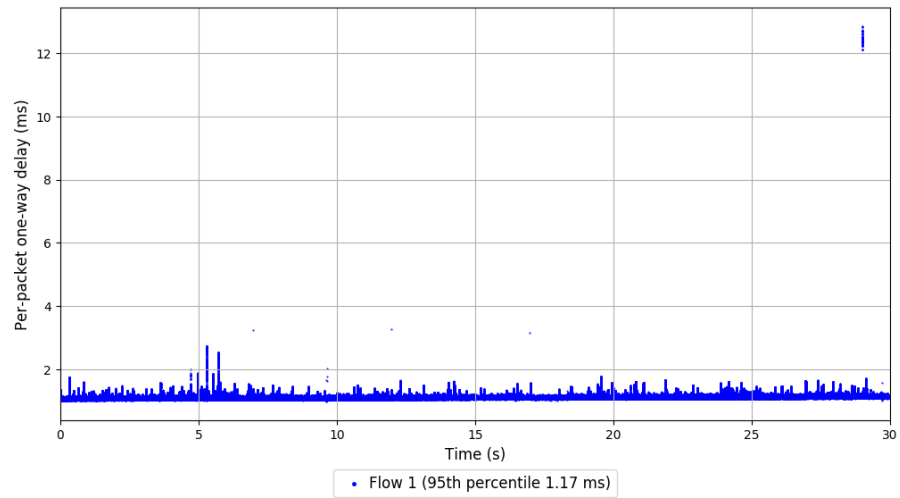
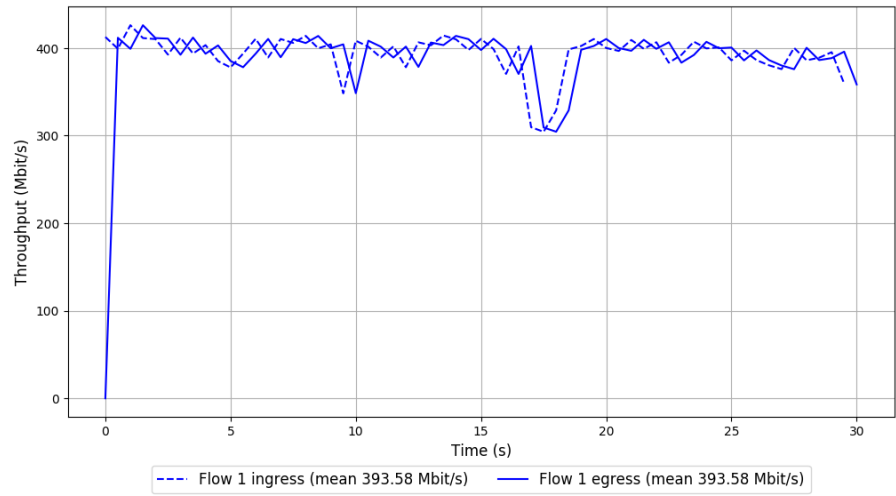
-- Flow 1:

Average throughput: 393.58 Mbit/s

95th percentile per-packet one-way delay: 1.167 ms

Loss rate: 0.01%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-02-05 13:16:12

End at: 2019-02-05 13:16:42

Local clock offset: 0.613 ms

Remote clock offset: 0.544 ms

Below is generated by plot.py at 2019-02-05 15:44:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 757.21 Mbit/s

95th percentile per-packet one-way delay: 37.275 ms

Loss rate: 0.04%

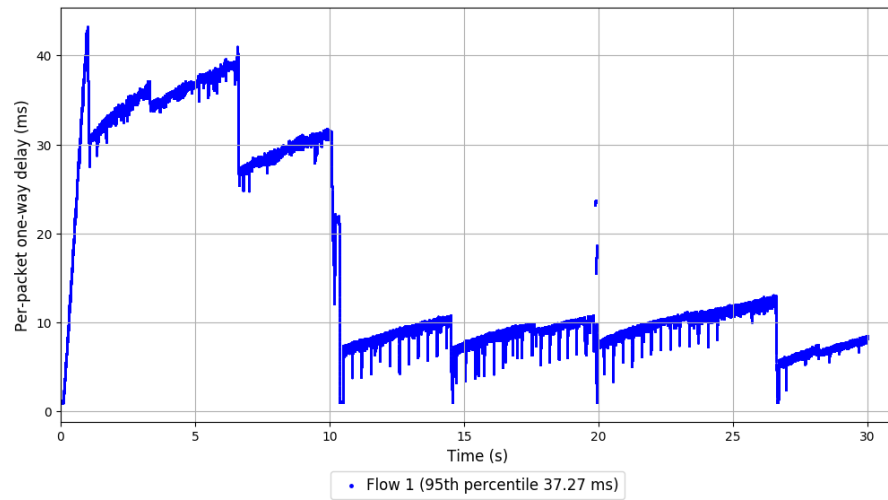
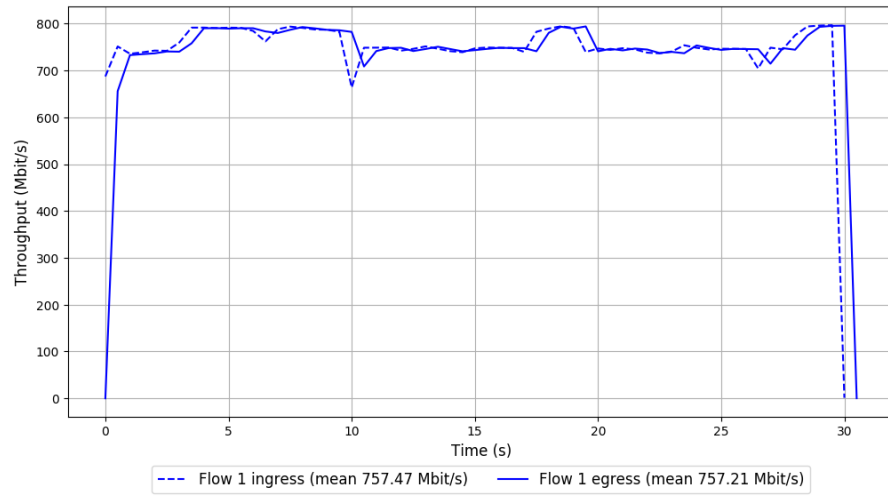
-- Flow 1:

Average throughput: 757.21 Mbit/s

95th percentile per-packet one-way delay: 37.275 ms

Loss rate: 0.04%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-02-05 13:46:10

End at: 2019-02-05 13:46:40

Local clock offset: 0.143 ms

Remote clock offset: 1.759 ms

Below is generated by plot.py at 2019-02-05 15:44:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 777.70 Mbit/s

95th percentile per-packet one-way delay: 15.458 ms

Loss rate: 0.03%

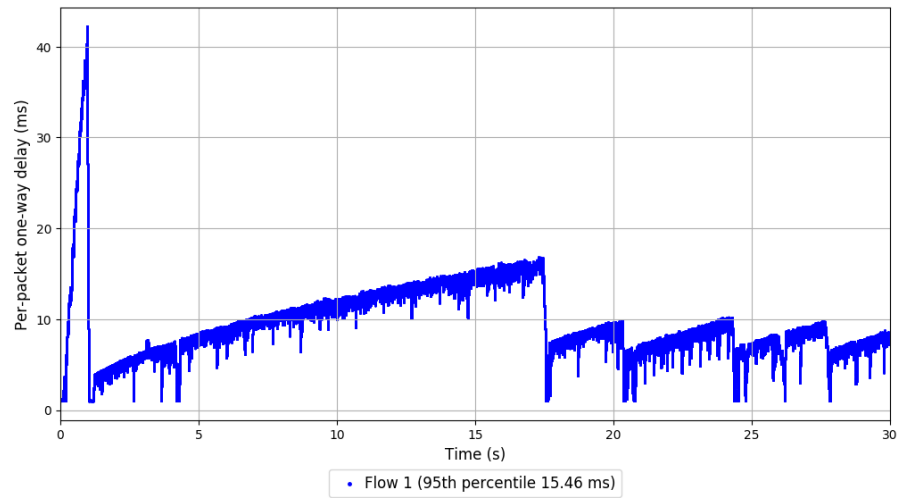
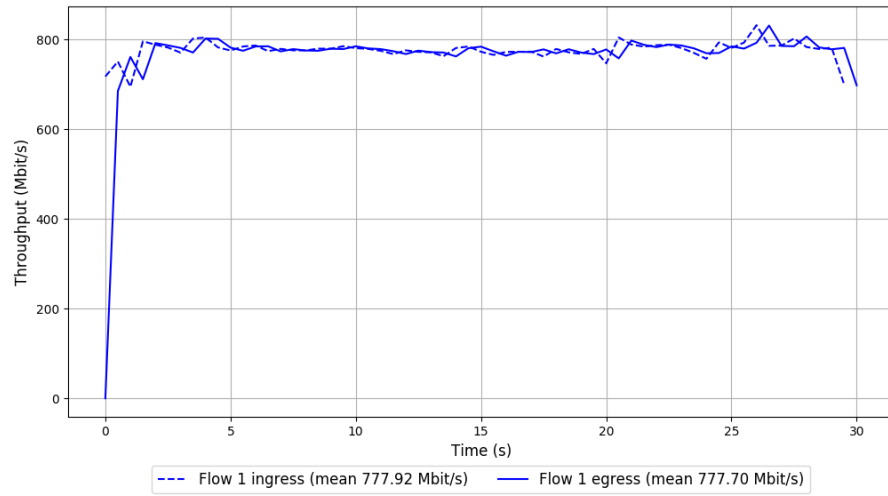
-- Flow 1:

Average throughput: 777.70 Mbit/s

95th percentile per-packet one-way delay: 15.458 ms

Loss rate: 0.03%

Run 2: Report of TCP Cubic — Data Link

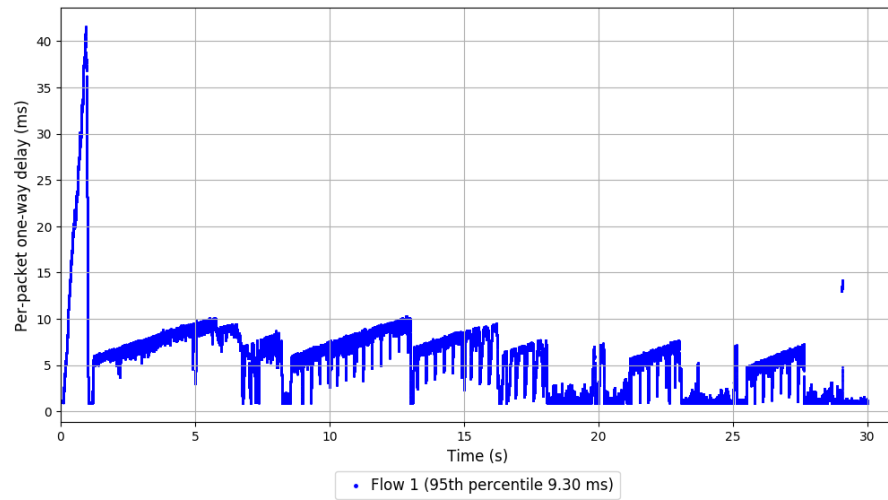
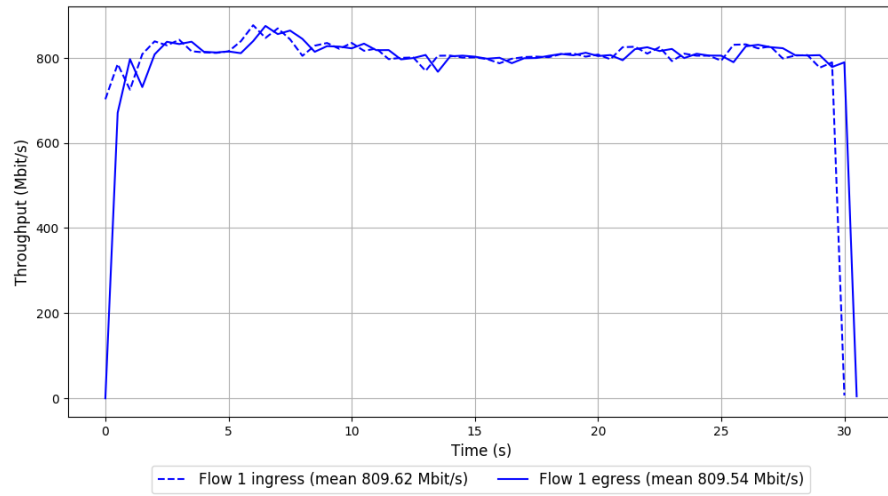


Run 3: Statistics of TCP Cubic

Start at: 2019-02-05 14:16:00
End at: 2019-02-05 14:16:31
Local clock offset: -0.029 ms
Remote clock offset: -4.153 ms

Below is generated by plot.py at 2019-02-05 15:45:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 809.54 Mbit/s
95th percentile per-packet one-way delay: 9.305 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 809.54 Mbit/s
95th percentile per-packet one-way delay: 9.305 ms
Loss rate: 0.02%

Run 3: Report of TCP Cubic — Data Link

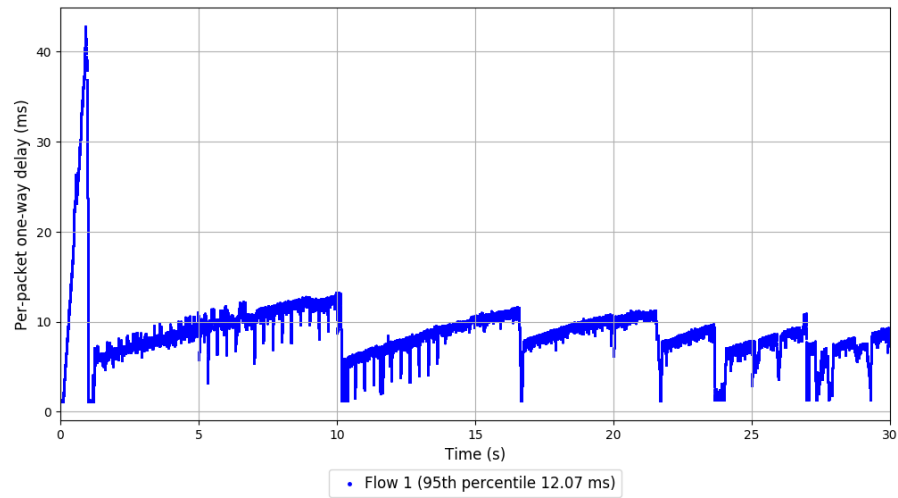
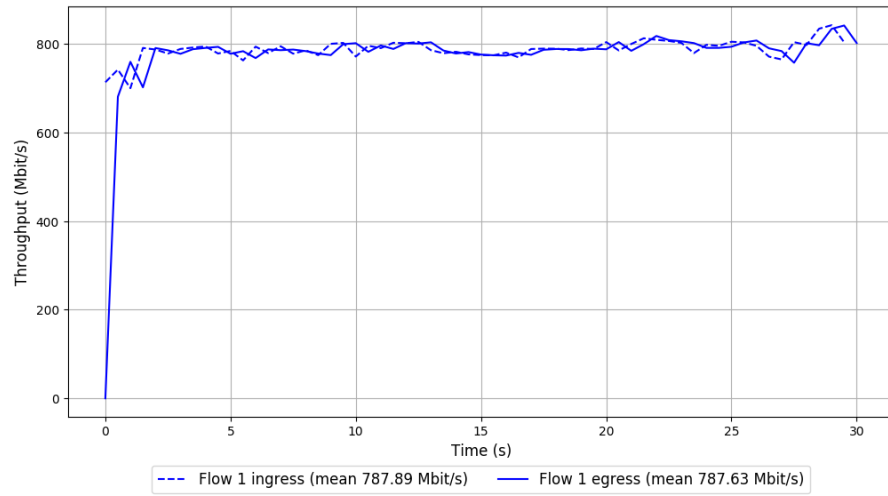


Run 4: Statistics of TCP Cubic

Start at: 2019-02-05 14:45:49
End at: 2019-02-05 14:46:19
Local clock offset: 0.259 ms
Remote clock offset: -0.254 ms

Below is generated by plot.py at 2019-02-05 15:45:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 787.63 Mbit/s
95th percentile per-packet one-way delay: 12.067 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 787.63 Mbit/s
95th percentile per-packet one-way delay: 12.067 ms
Loss rate: 0.04%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-02-05 15:15:28

End at: 2019-02-05 15:15:58

Local clock offset: -3.902 ms

Remote clock offset: 0.666 ms

Below is generated by plot.py at 2019-02-05 15:45:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 777.97 Mbit/s

95th percentile per-packet one-way delay: 30.525 ms

Loss rate: 0.04%

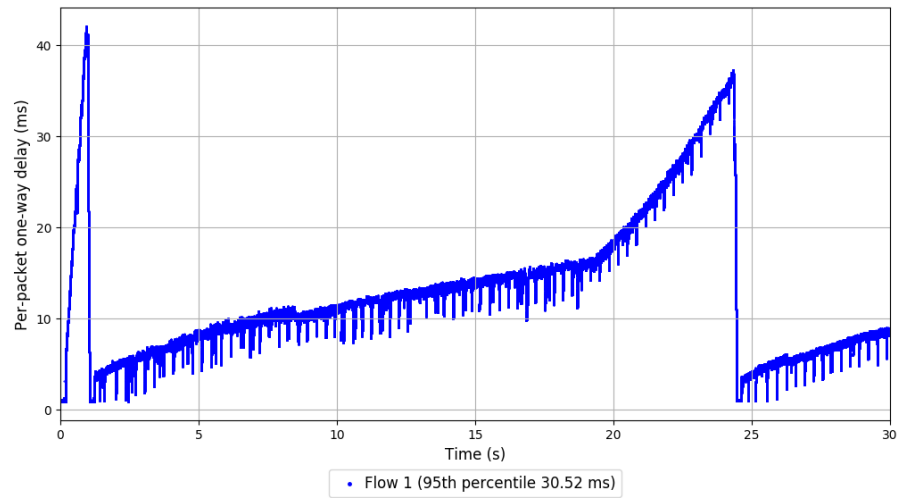
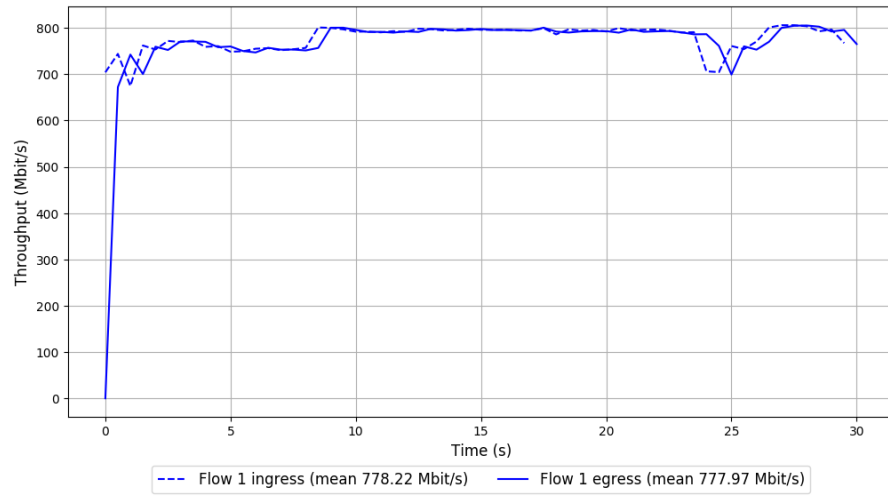
-- Flow 1:

Average throughput: 777.97 Mbit/s

95th percentile per-packet one-way delay: 30.525 ms

Loss rate: 0.04%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-02-05 13:04:35

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

Local clock offset: 0.561 ms

Remote clock offset: 0.205 ms

Below is generated by plot.py at 2019-02-05 15:49:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 953.16 Mbit/s

95th percentile per-packet one-way delay: 38.904 ms

Loss rate: 0.24%

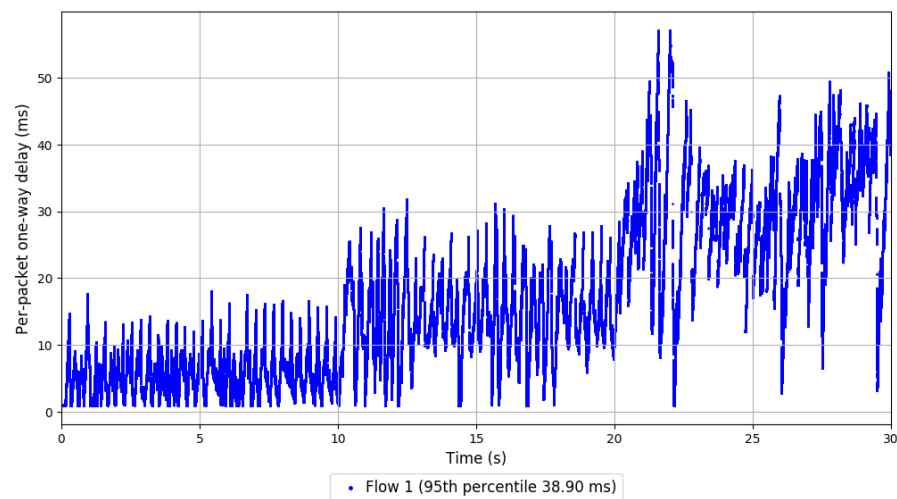
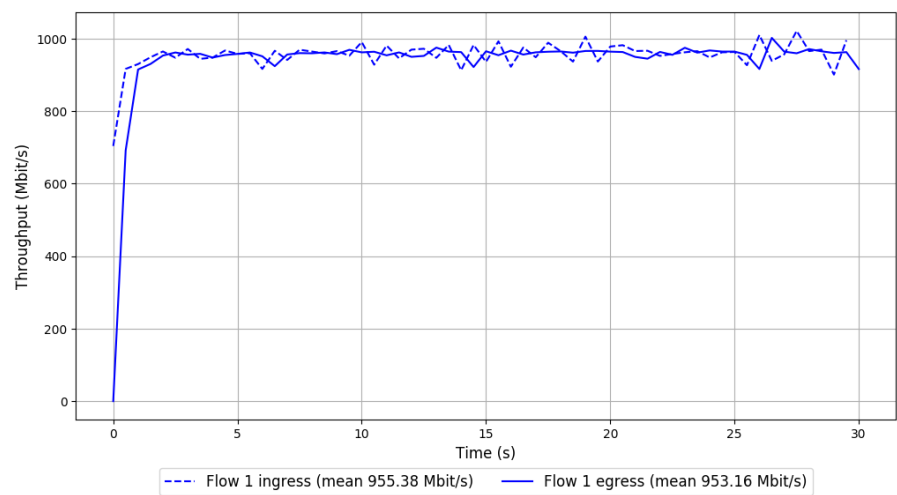
-- Flow 1:

Average throughput: 953.16 Mbit/s

95th percentile per-packet one-way delay: 38.904 ms

Loss rate: 0.24%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-02-05 13:34:30

End at: 2019-02-05 13:35:00

Local clock offset: 0.215 ms

Remote clock offset: 1.229 ms

Below is generated by plot.py at 2019-02-05 15:56:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 953.53 Mbit/s

95th percentile per-packet one-way delay: 36.257 ms

Loss rate: 0.21%

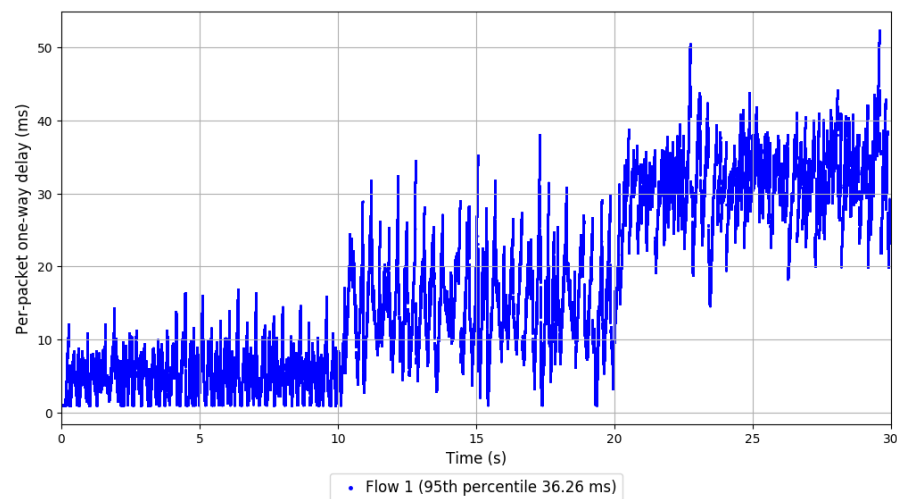
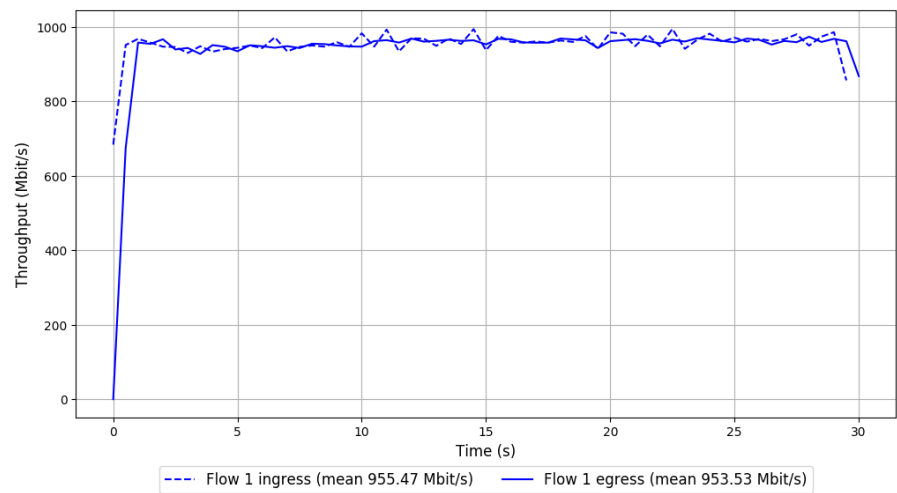
-- Flow 1:

Average throughput: 953.53 Mbit/s

95th percentile per-packet one-way delay: 36.257 ms

Loss rate: 0.21%

Run 2: Report of FillP — Data Link

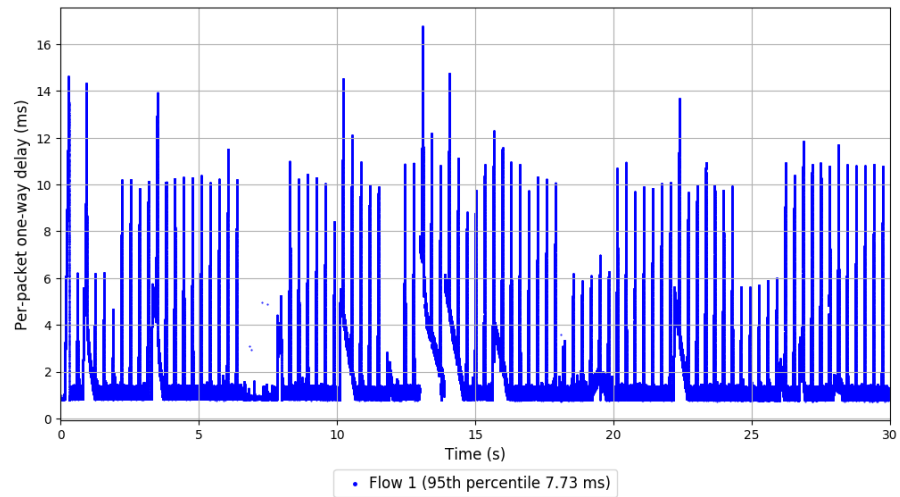
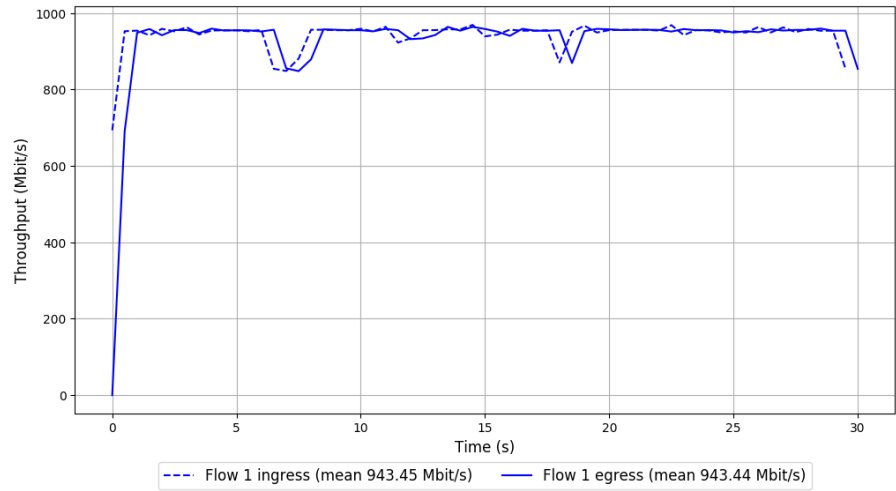


Run 3: Statistics of FillP

Start at: 2019-02-05 14:04:23
End at: 2019-02-05 14:04:53
Local clock offset: 0.009 ms
Remote clock offset: -2.899 ms

Below is generated by plot.py at 2019-02-05 15:56:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 943.44 Mbit/s
95th percentile per-packet one-way delay: 7.731 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 943.44 Mbit/s
95th percentile per-packet one-way delay: 7.731 ms
Loss rate: 0.01%

Run 3: Report of FillP — Data Link

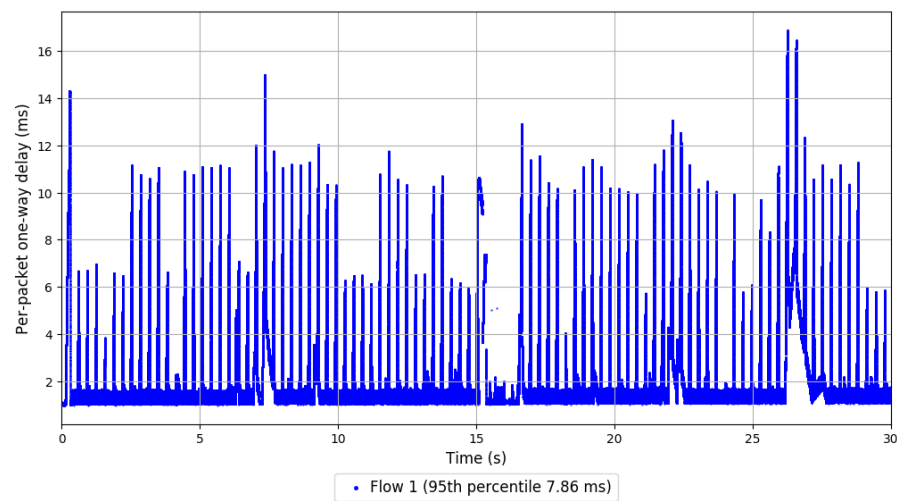
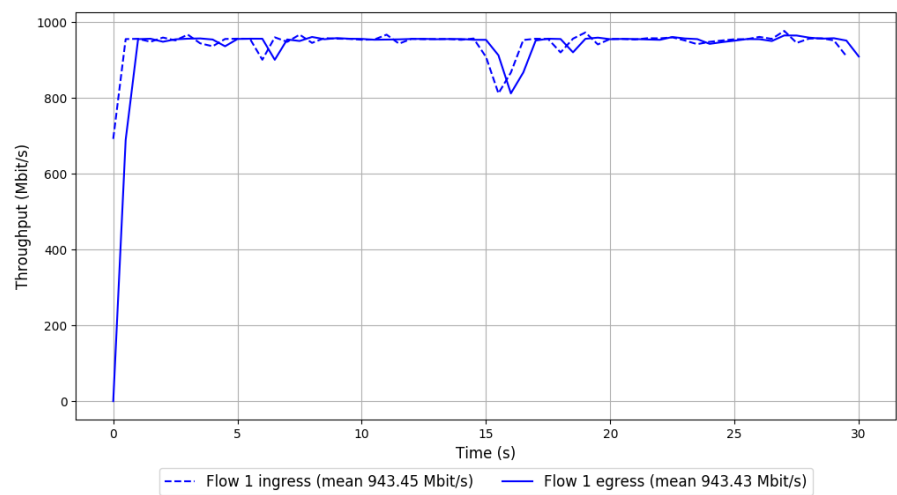


Run 4: Statistics of FillP

Start at: 2019-02-05 14:34:15
End at: 2019-02-05 14:34:45
Local clock offset: 0.222 ms
Remote clock offset: -1.209 ms

Below is generated by plot.py at 2019-02-05 15:57:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 943.43 Mbit/s
95th percentile per-packet one-way delay: 7.858 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 943.43 Mbit/s
95th percentile per-packet one-way delay: 7.858 ms
Loss rate: 0.01%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-02-05 15:04:06

End at: 2019-02-05 15:04:37

Local clock offset: -3.132 ms

Remote clock offset: 0.37 ms

Below is generated by plot.py at 2019-02-05 15:57:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 941.15 Mbit/s

95th percentile per-packet one-way delay: 9.336 ms

Loss rate: 0.01%

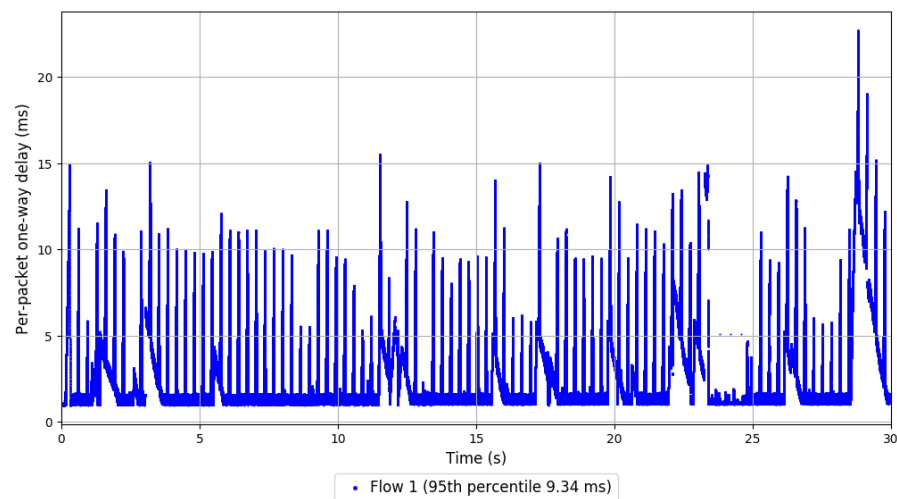
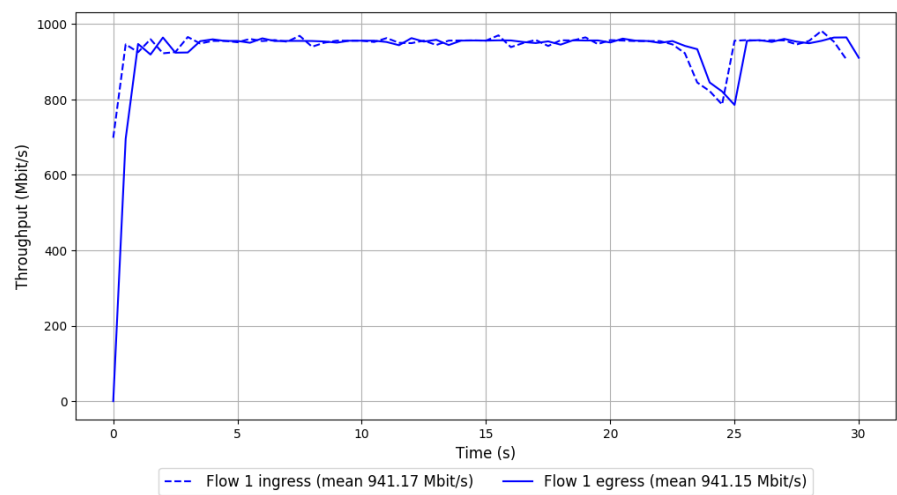
-- Flow 1:

Average throughput: 941.15 Mbit/s

95th percentile per-packet one-way delay: 9.336 ms

Loss rate: 0.01%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-02-05 13:19:29

End at: 2019-02-05 13:19:59

Local clock offset: 0.479 ms

Remote clock offset: 0.7 ms

Below is generated by plot.py at 2019-02-05 15:57:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 931.75 Mbit/s

95th percentile per-packet one-way delay: 4.957 ms

Loss rate: 0.04%

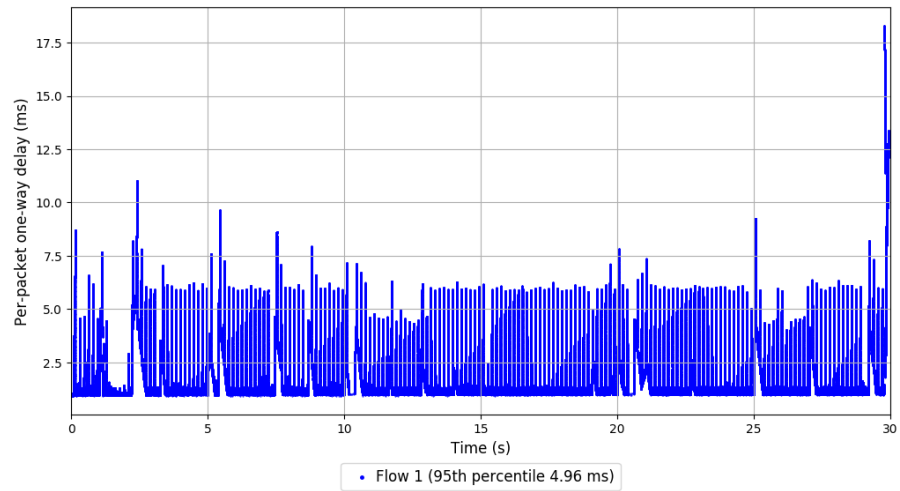
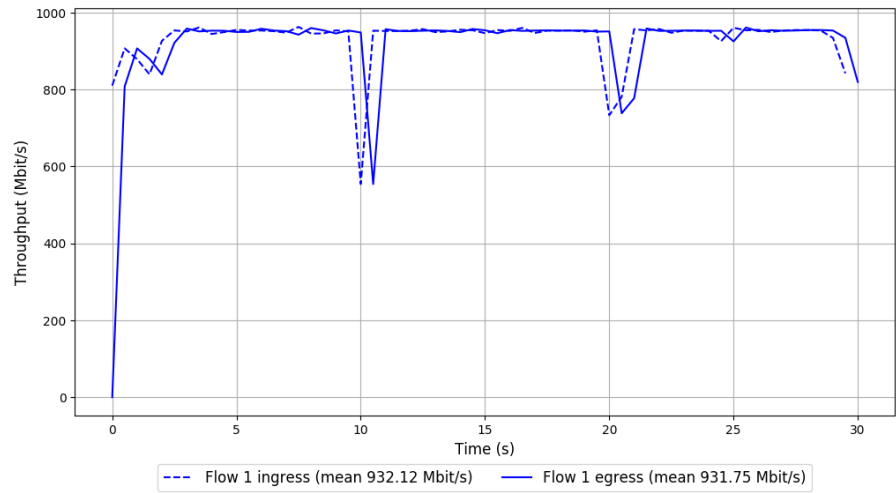
-- Flow 1:

Average throughput: 931.75 Mbit/s

95th percentile per-packet one-way delay: 4.957 ms

Loss rate: 0.04%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-02-05 13:49:26

End at: 2019-02-05 13:49:56

Local clock offset: 0.113 ms

Remote clock offset: 1.264 ms

Below is generated by plot.py at 2019-02-05 15:57:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 928.46 Mbit/s

95th percentile per-packet one-way delay: 5.029 ms

Loss rate: 0.01%

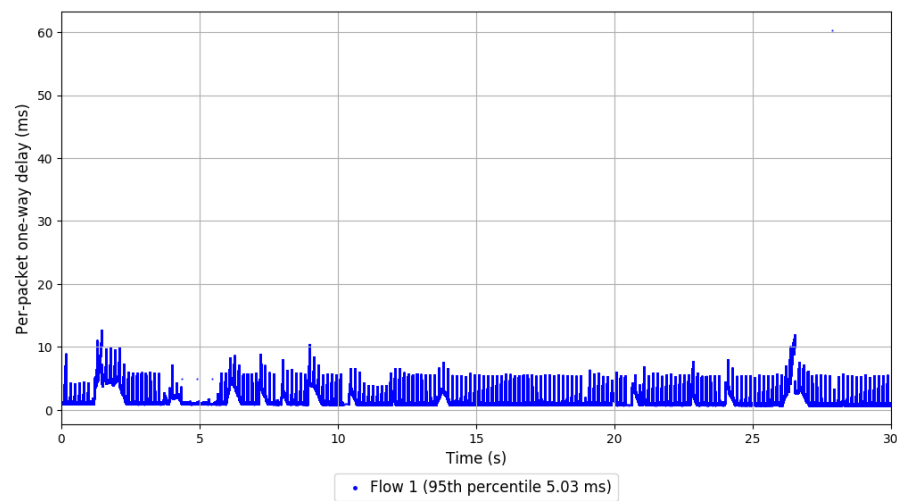
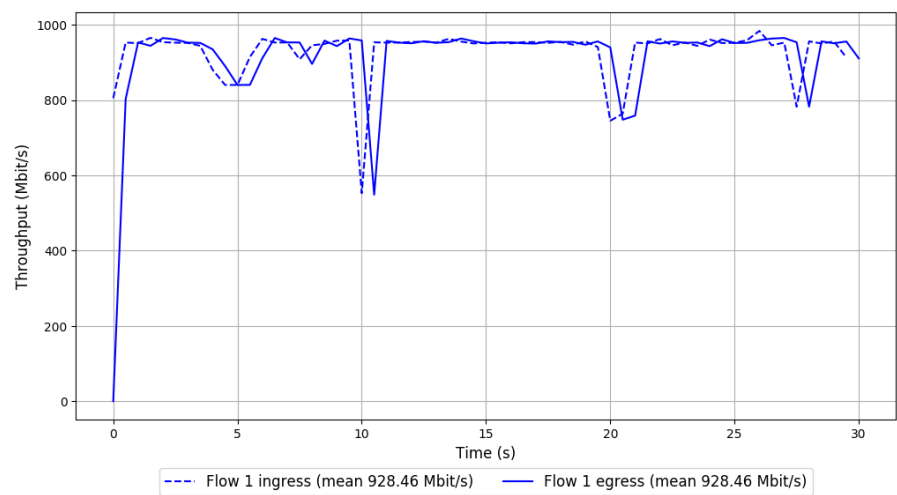
-- Flow 1:

Average throughput: 928.46 Mbit/s

95th percentile per-packet one-way delay: 5.029 ms

Loss rate: 0.01%

Run 2: Report of FillP-Sheep — Data Link

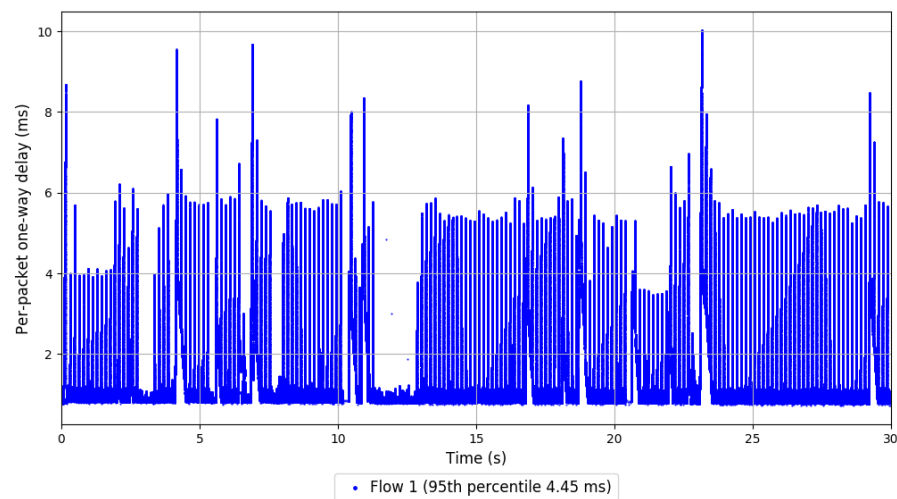
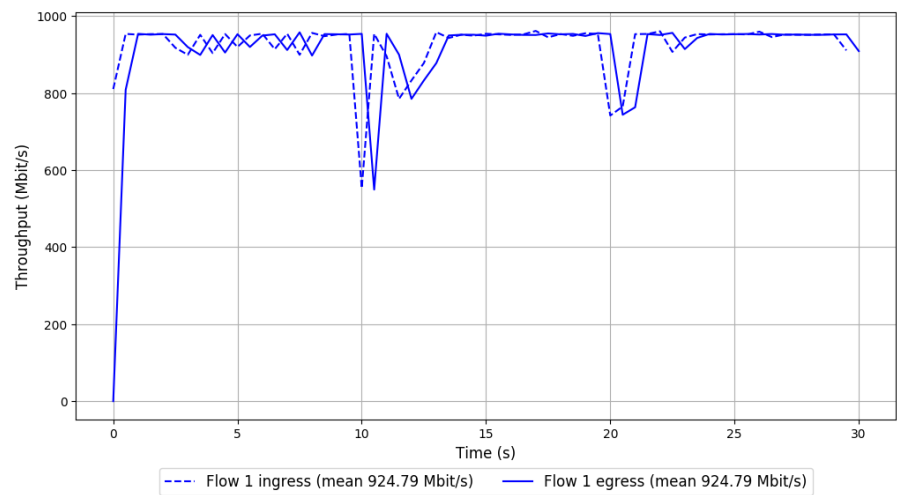


Run 3: Statistics of FillP-Sheep

Start at: 2019-02-05 14:19:18
End at: 2019-02-05 14:19:48
Local clock offset: 0.059 ms
Remote clock offset: -4.281 ms

Below is generated by plot.py at 2019-02-05 15:57:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 924.79 Mbit/s
95th percentile per-packet one-way delay: 4.445 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 924.79 Mbit/s
95th percentile per-packet one-way delay: 4.445 ms
Loss rate: 0.01%

Run 3: Report of FillP-Sheep — Data Link

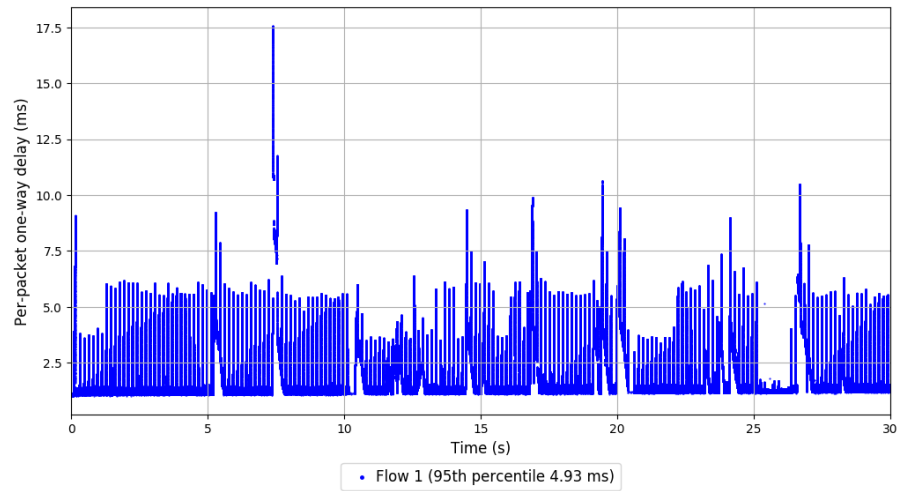
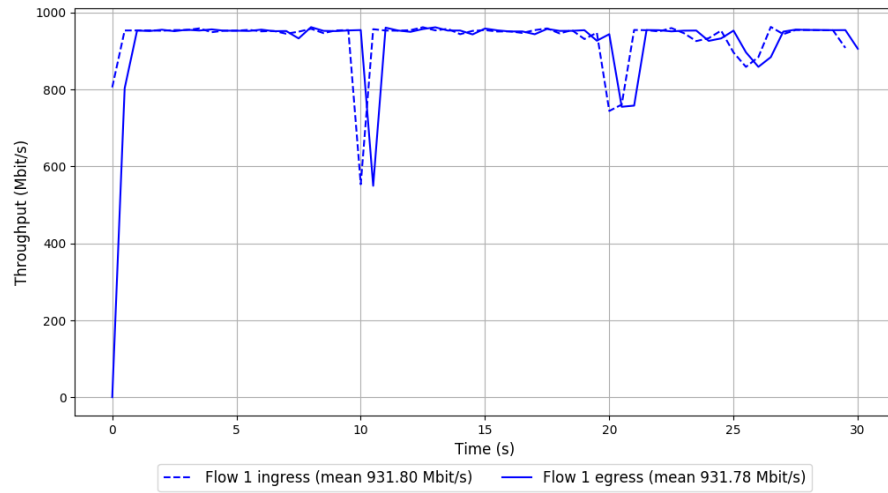


Run 4: Statistics of FillP-Sheep

Start at: 2019-02-05 14:49:05
End at: 2019-02-05 14:49:35
Local clock offset: -0.772 ms
Remote clock offset: -0.064 ms

Below is generated by plot.py at 2019-02-05 16:03:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 931.78 Mbit/s
95th percentile per-packet one-way delay: 4.935 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 931.78 Mbit/s
95th percentile per-packet one-way delay: 4.935 ms
Loss rate: 0.01%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-02-05 15:18:44

End at: 2019-02-05 15:19:14

Local clock offset: -4.07 ms

Remote clock offset: 0.636 ms

Below is generated by plot.py at 2019-02-05 16:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 911.33 Mbit/s

95th percentile per-packet one-way delay: 5.150 ms

Loss rate: 0.00%

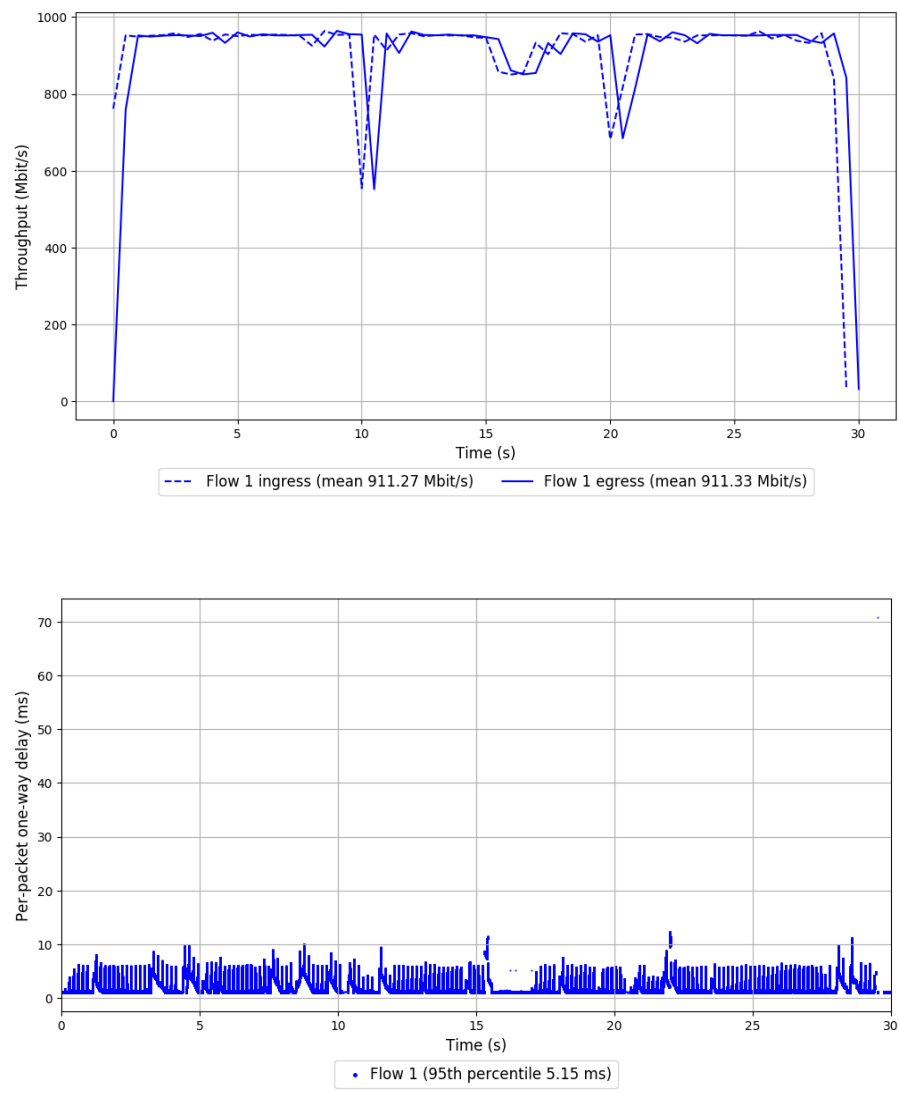
-- Flow 1:

Average throughput: 911.33 Mbit/s

95th percentile per-packet one-way delay: 5.150 ms

Loss rate: 0.00%

Run 5: Report of FillP-Sheep — Data Link

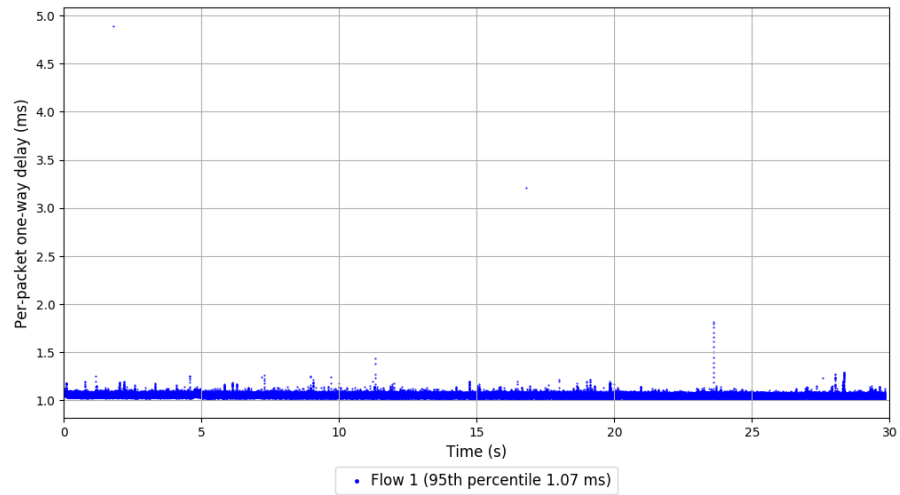
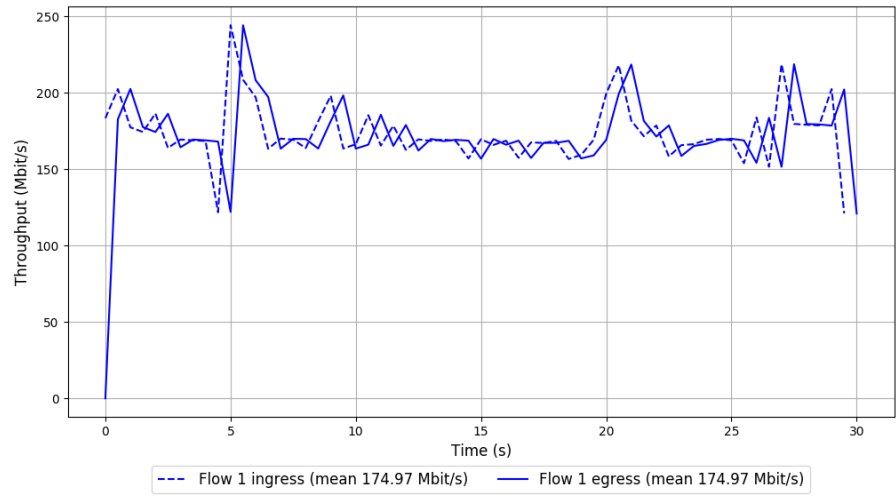


```
Run 1: Statistics of Indigo

Start at: 2019-02-05 12:56:26
End at: 2019-02-05 12:56:56
Local clock offset: 0.479 ms
Remote clock offset: 0.103 ms

# Below is generated by plot.py at 2019-02-05 16:09:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 174.97 Mbit/s
95th percentile per-packet one-way delay: 1.072 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 174.97 Mbit/s
95th percentile per-packet one-way delay: 1.072 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-02-05 13:26:21

End at: 2019-02-05 13:26:51

Local clock offset: 0.3 ms

Remote clock offset: 0.993 ms

Below is generated by plot.py at 2019-02-05 16:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.46 Mbit/s

95th percentile per-packet one-way delay: 1.002 ms

Loss rate: 0.01%

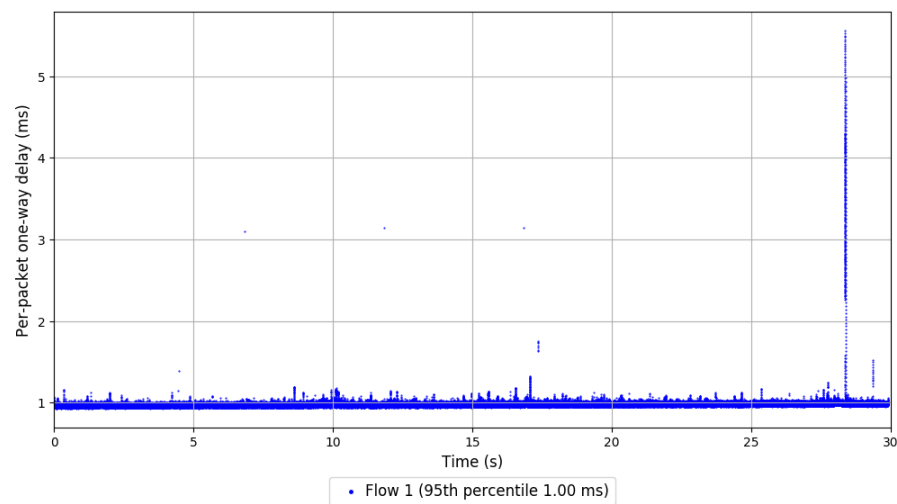
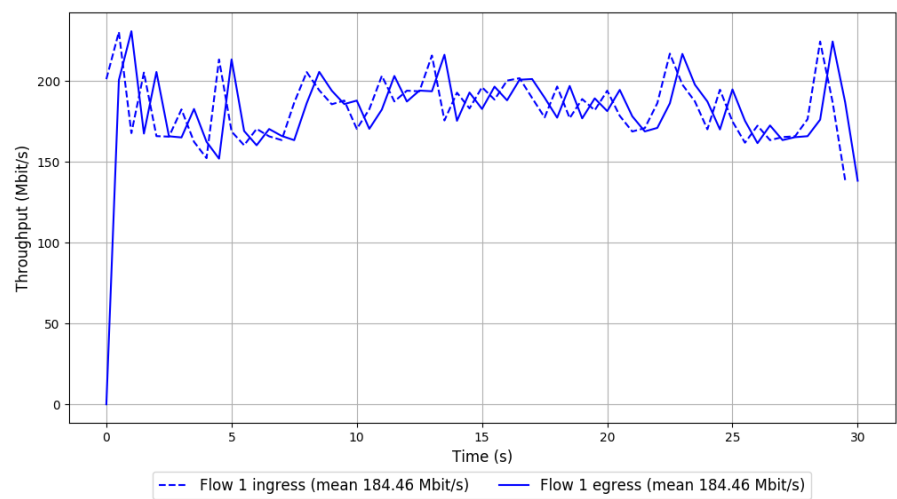
-- Flow 1:

Average throughput: 184.46 Mbit/s

95th percentile per-packet one-way delay: 1.002 ms

Loss rate: 0.01%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-02-05 13:56:14

End at: 2019-02-05 13:56:44

Local clock offset: 0.066 ms

Remote clock offset: -1.378 ms

Below is generated by plot.py at 2019-02-05 16:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.89 Mbit/s

95th percentile per-packet one-way delay: 0.994 ms

Loss rate: 0.01%

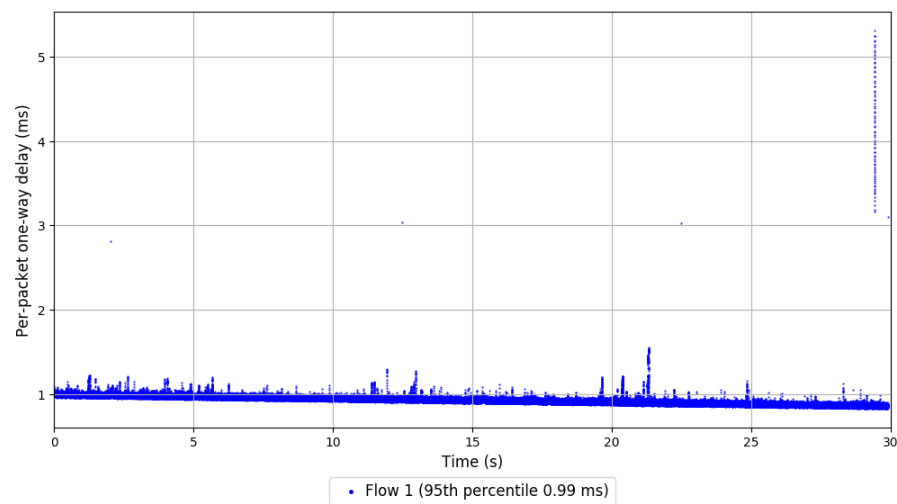
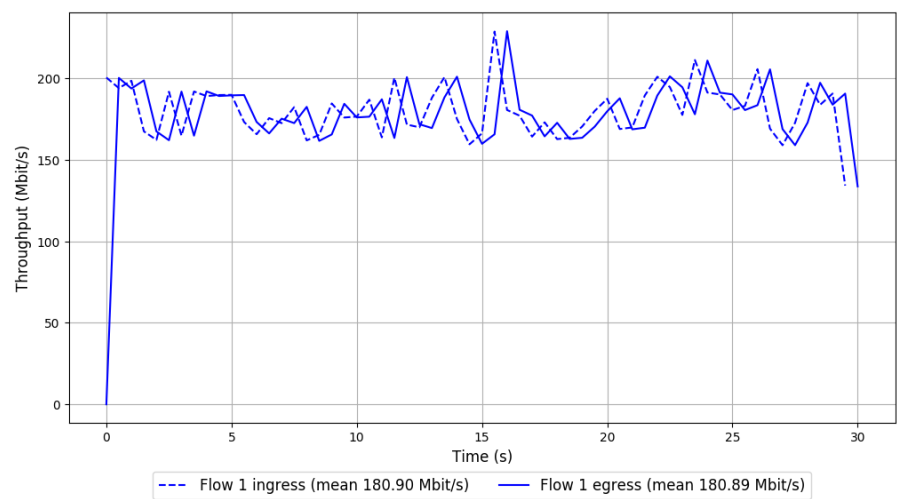
-- Flow 1:

Average throughput: 180.89 Mbit/s

95th percentile per-packet one-way delay: 0.994 ms

Loss rate: 0.01%

Run 3: Report of Indigo — Data Link

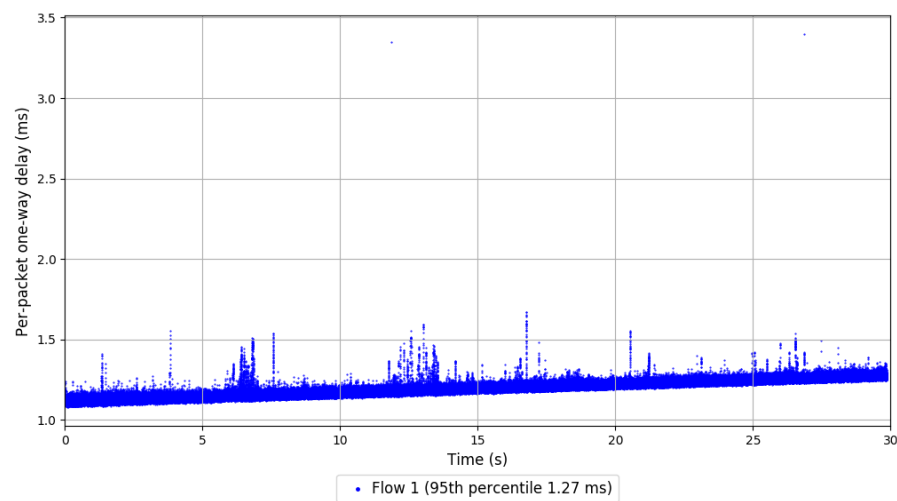
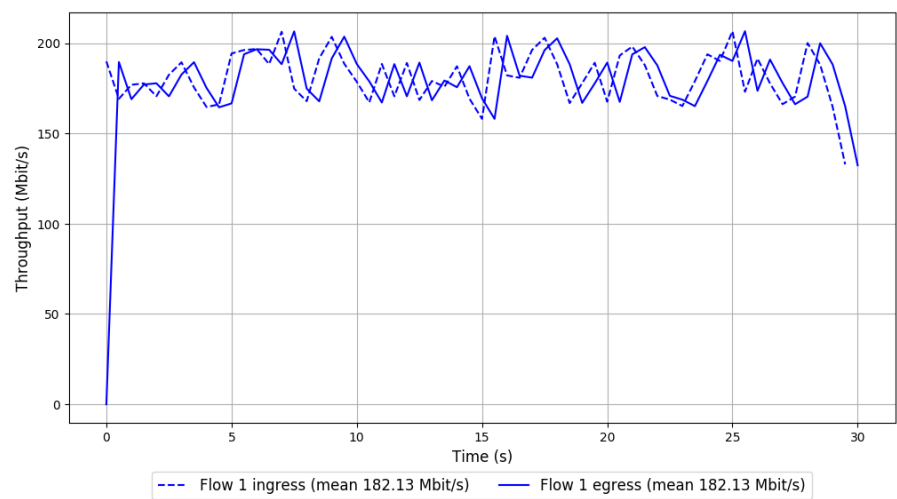


Run 4: Statistics of Indigo

Start at: 2019-02-05 14:26:12
End at: 2019-02-05 14:26:42
Local clock offset: 0.171 ms
Remote clock offset: -3.115 ms

Below is generated by plot.py at 2019-02-05 16:09:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 182.13 Mbit/s
95th percentile per-packet one-way delay: 1.266 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 182.13 Mbit/s
95th percentile per-packet one-way delay: 1.266 ms
Loss rate: 0.01%

Run 4: Report of Indigo — Data Link

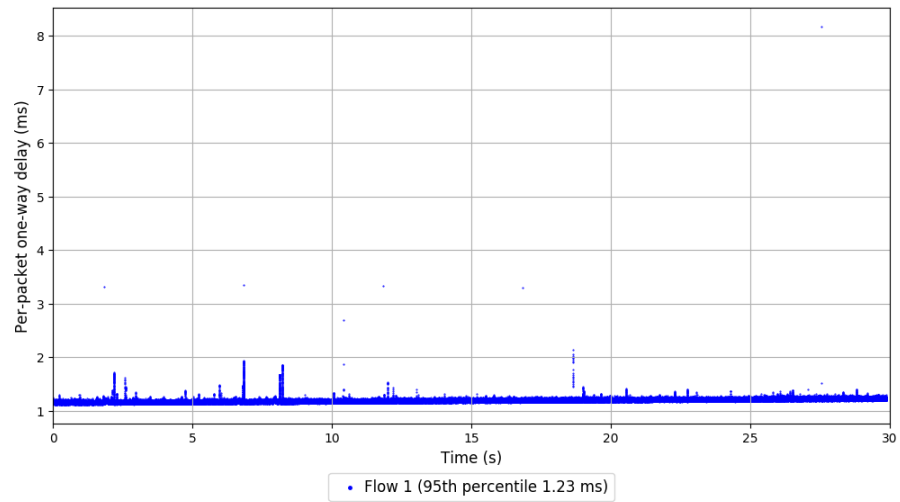
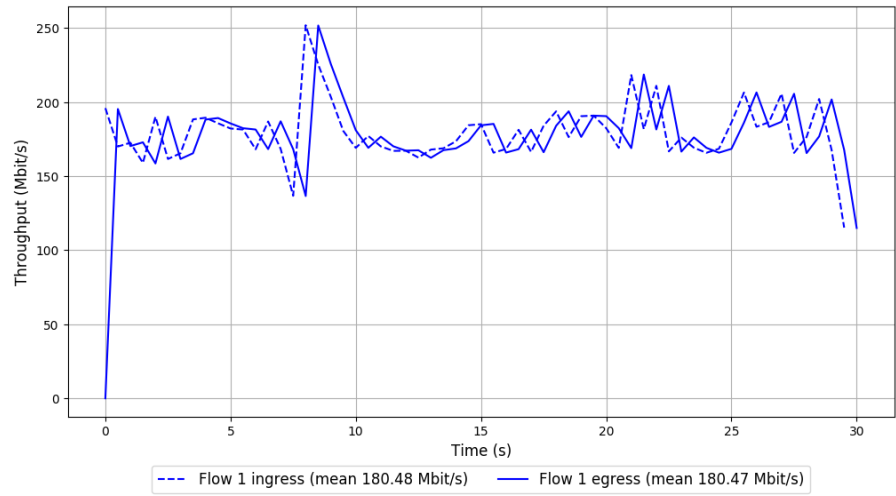


Run 5: Statistics of Indigo

Start at: 2019-02-05 14:55:57
End at: 2019-02-05 14:56:27
Local clock offset: -2.215 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2019-02-05 16:09:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 180.47 Mbit/s
95th percentile per-packet one-way delay: 1.232 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 180.47 Mbit/s
95th percentile per-packet one-way delay: 1.232 ms
Loss rate: 0.01%

Run 5: Report of Indigo — Data Link

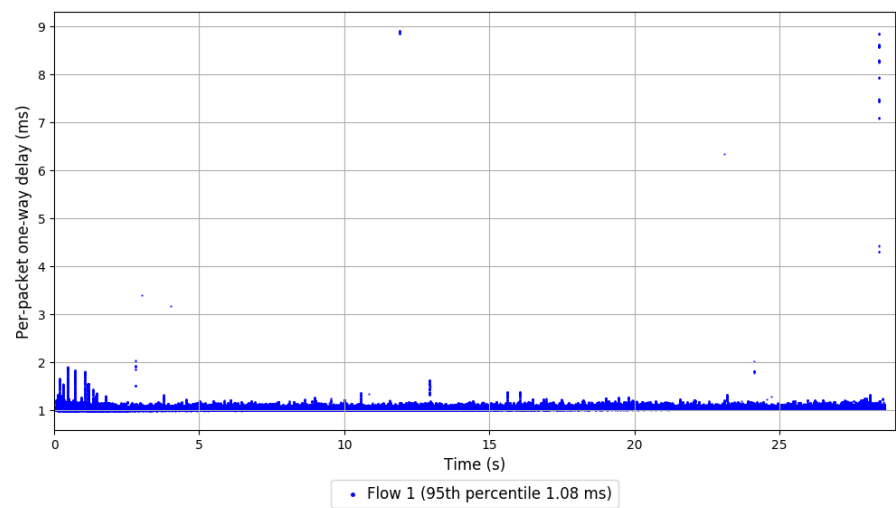
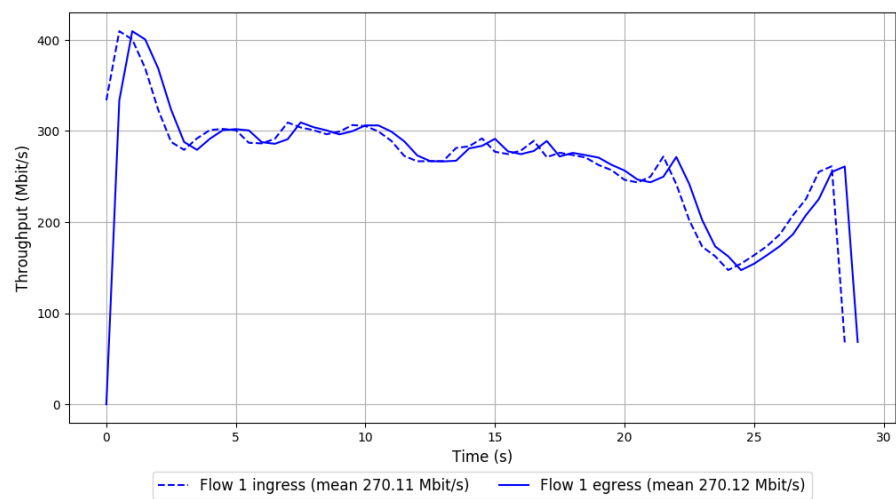


```
Run 1: Statistics of Indigo-MusesC3

Start at: 2019-02-05 13:21:06
End at: 2019-02-05 13:21:36
Local clock offset: 0.413 ms
Remote clock offset: 0.742 ms

# Below is generated by plot.py at 2019-02-05 16:09:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 270.12 Mbit/s
95th percentile per-packet one-way delay: 1.083 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 270.12 Mbit/s
95th percentile per-packet one-way delay: 1.083 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-02-05 13:51:03

End at: 2019-02-05 13:51:33

Local clock offset: 0.099 ms

Remote clock offset: 0.565 ms

Below is generated by plot.py at 2019-02-05 16:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 265.92 Mbit/s

95th percentile per-packet one-way delay: 0.890 ms

Loss rate: 0.00%

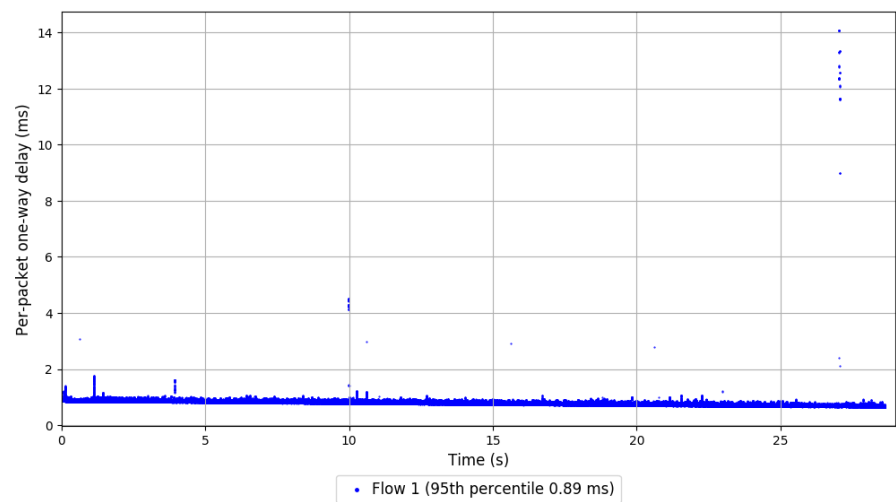
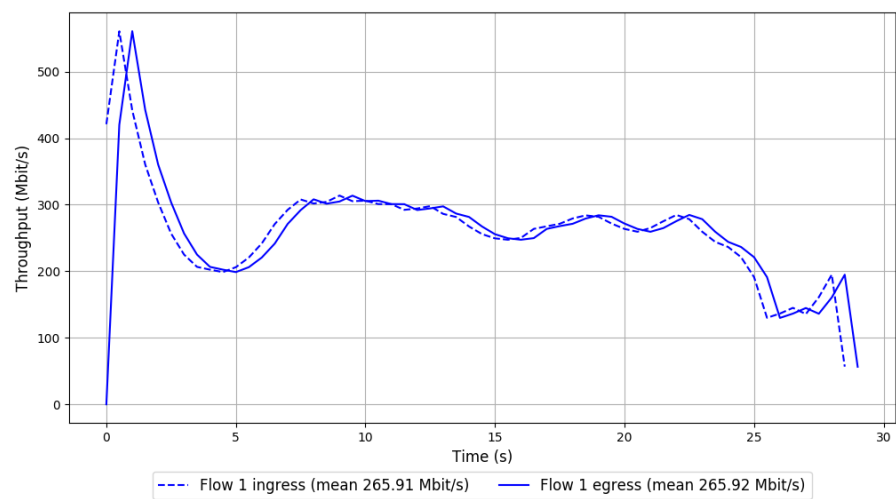
-- Flow 1:

Average throughput: 265.92 Mbit/s

95th percentile per-packet one-way delay: 0.890 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesC3 — Data Link

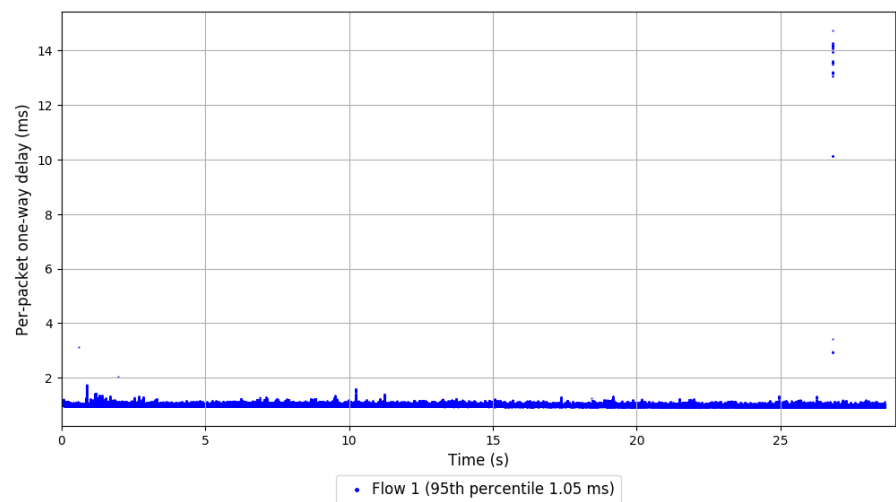
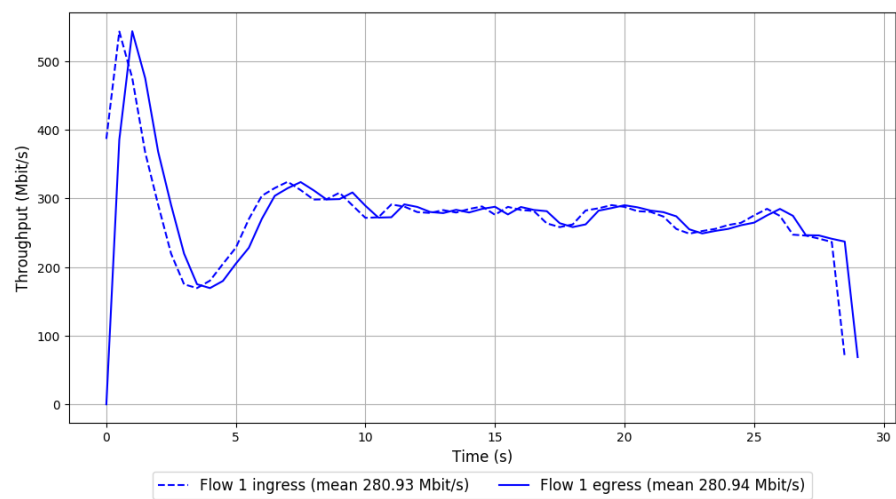


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-02-05 14:20:56
End at: 2019-02-05 14:21:26
Local clock offset: 0.092 ms
Remote clock offset: -4.528 ms

Below is generated by plot.py at 2019-02-05 16:09:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 280.94 Mbit/s
95th percentile per-packet one-way delay: 1.047 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 280.94 Mbit/s
95th percentile per-packet one-way delay: 1.047 ms
Loss rate: 0.00%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-02-05 14:50:42

End at: 2019-02-05 14:51:12

Local clock offset: -1.154 ms

Remote clock offset: 0.019 ms

Below is generated by plot.py at 2019-02-05 16:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.42 Mbit/s

95th percentile per-packet one-way delay: 1.267 ms

Loss rate: 0.01%

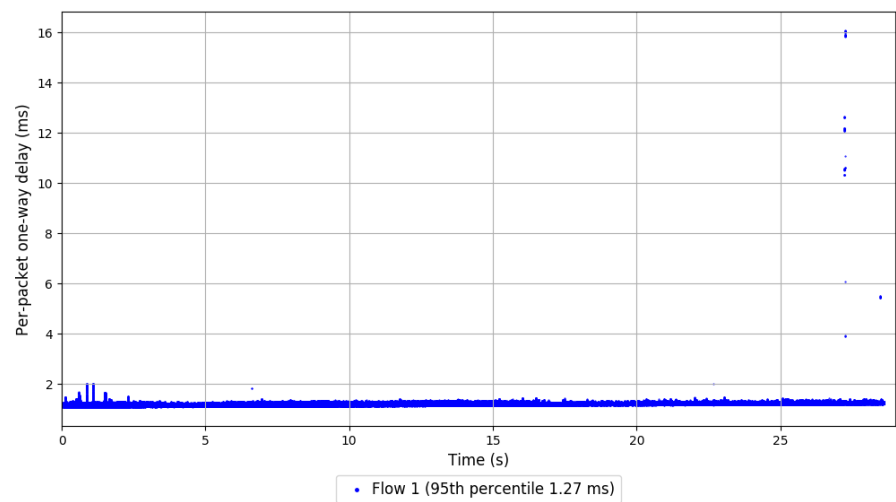
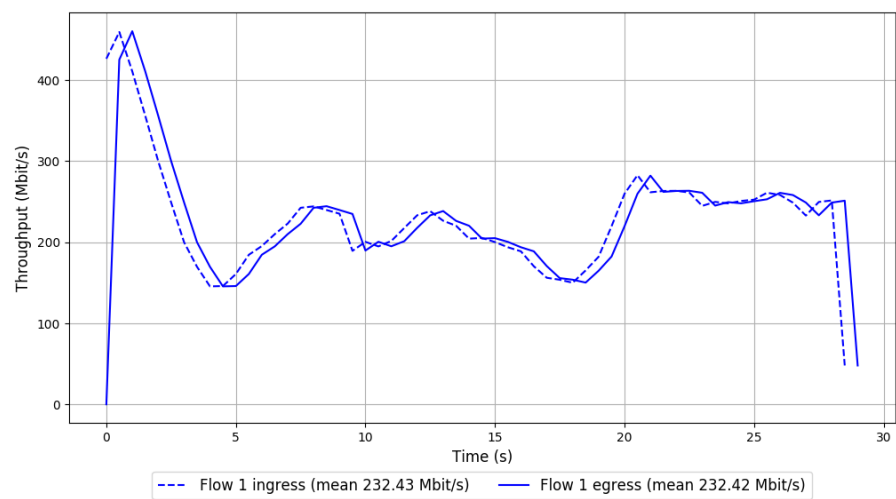
-- Flow 1:

Average throughput: 232.42 Mbit/s

95th percentile per-packet one-way delay: 1.267 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-02-05 15:20:21

End at: 2019-02-05 15:20:51

Local clock offset: -4.159 ms

Remote clock offset: 0.657 ms

Below is generated by plot.py at 2019-02-05 16:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 238.52 Mbit/s

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

Loss rate: 0.01%

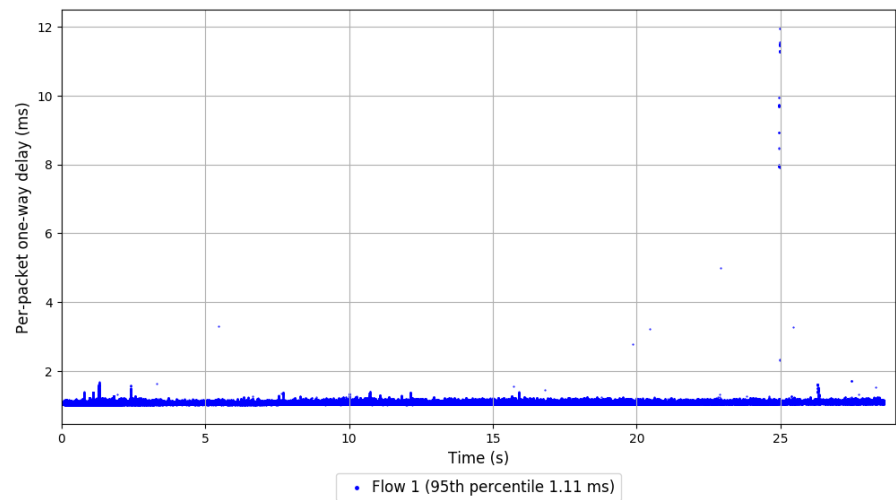
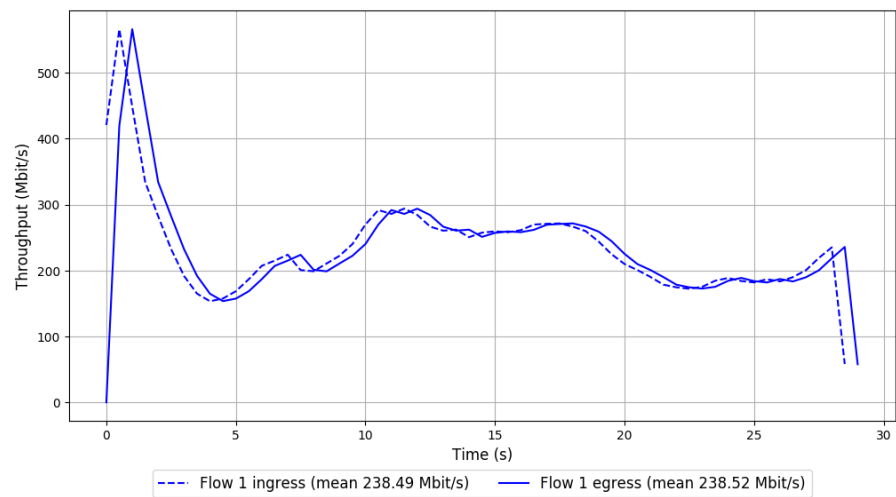
-- Flow 1:

Average throughput: 238.52 Mbit/s

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

Loss rate: 0.01%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-02-05 13:06:14

End at: 2019-02-05 13:06:44

Local clock offset: 0.572 ms

Remote clock offset: 0.317 ms

Below is generated by plot.py at 2019-02-05 16:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.30 Mbit/s

95th percentile per-packet one-way delay: 1.013 ms

Loss rate: 0.00%

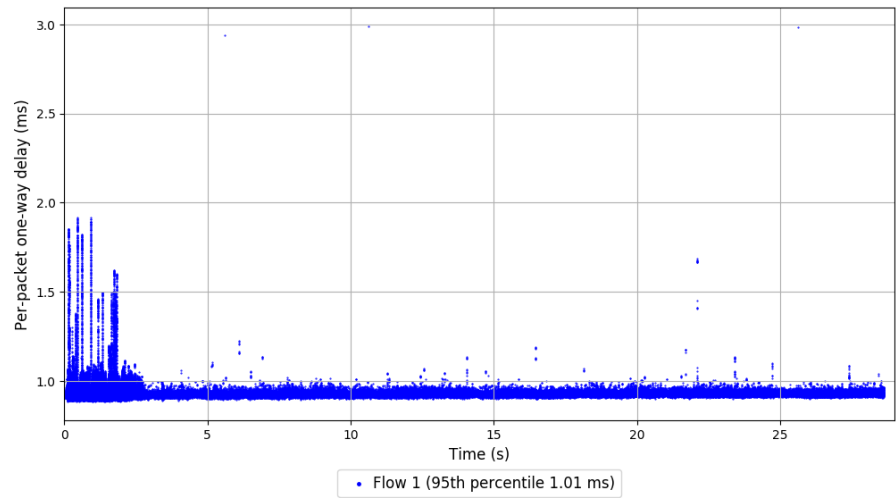
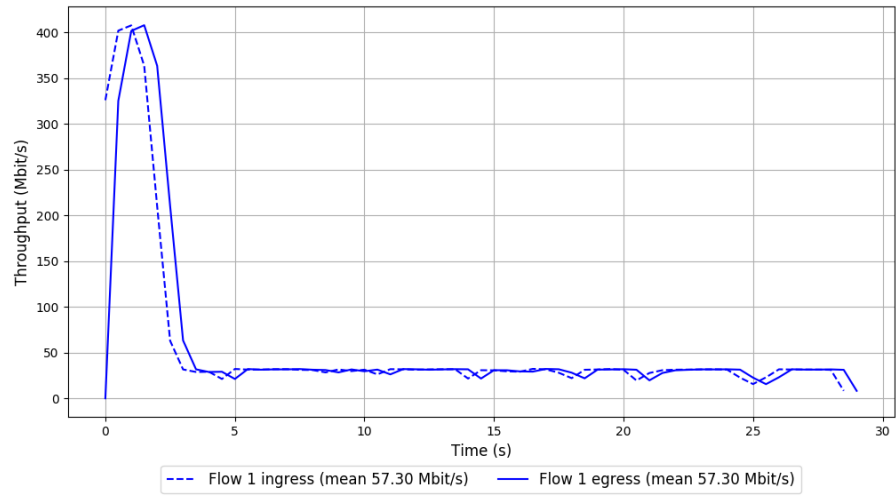
-- Flow 1:

Average throughput: 57.30 Mbit/s

95th percentile per-packet one-way delay: 1.013 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-02-05 13:36:09

End at: 2019-02-05 13:36:39

Local clock offset: 0.218 ms

Remote clock offset: 1.424 ms

Below is generated by plot.py at 2019-02-05 16:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.40 Mbit/s

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

Loss rate: 0.01%

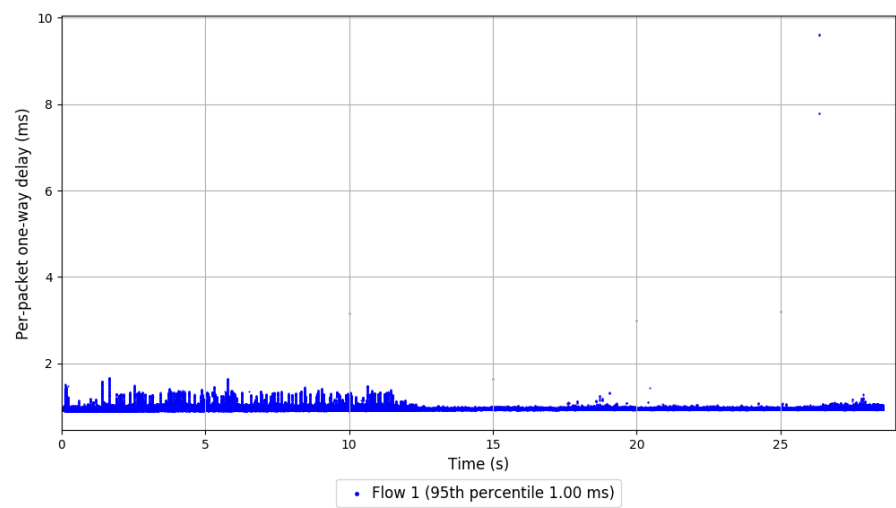
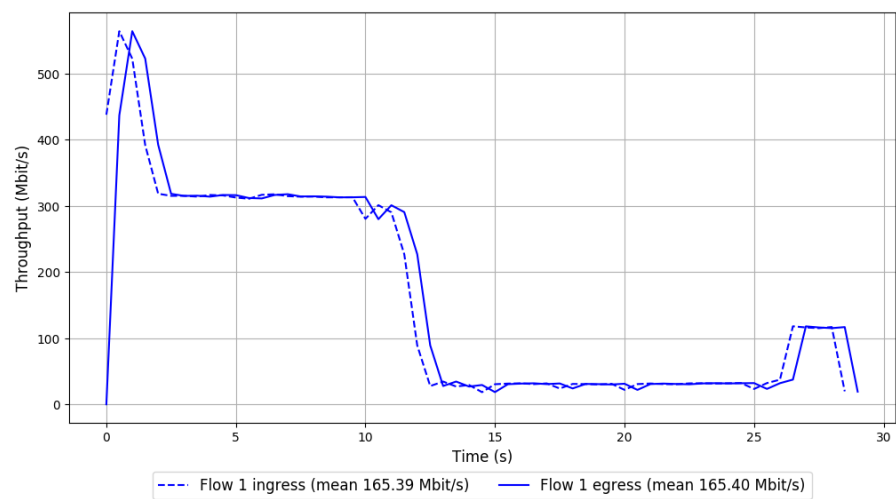
-- Flow 1:

Average throughput: 165.40 Mbit/s

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

Loss rate: 0.01%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-02-05 14:06:01

End at: 2019-02-05 14:06:31

Local clock offset: 0.017 ms

Remote clock offset: -3.23 ms

Below is generated by plot.py at 2019-02-05 16:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.48 Mbit/s

95th percentile per-packet one-way delay: 1.045 ms

Loss rate: 0.00%

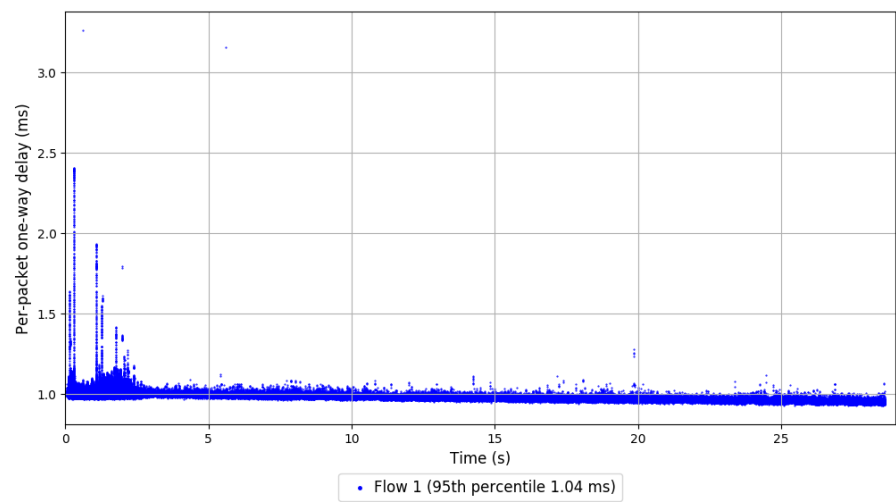
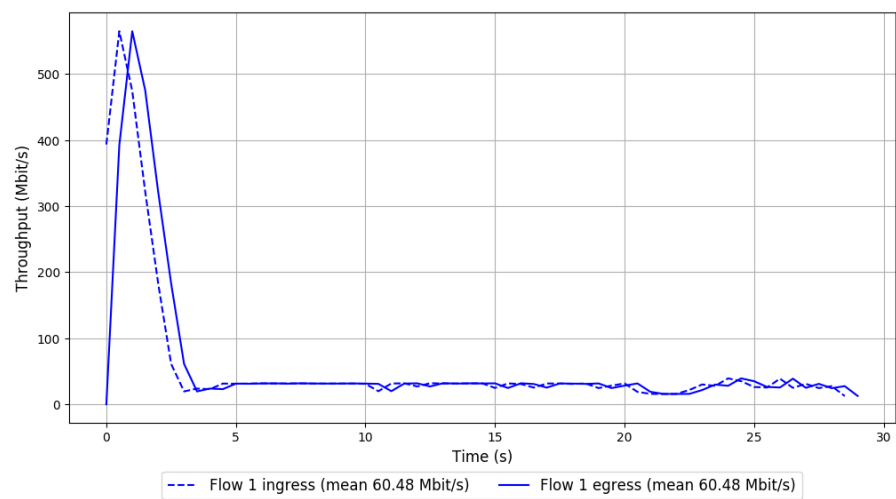
-- Flow 1:

Average throughput: 60.48 Mbit/s

95th percentile per-packet one-way delay: 1.045 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-02-05 14:35:52

End at: 2019-02-05 14:36:22

Local clock offset: 0.244 ms

Remote clock offset: -0.94 ms

Below is generated by plot.py at 2019-02-05 16:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.39 Mbit/s

95th percentile per-packet one-way delay: 1.143 ms

Loss rate: 0.01%

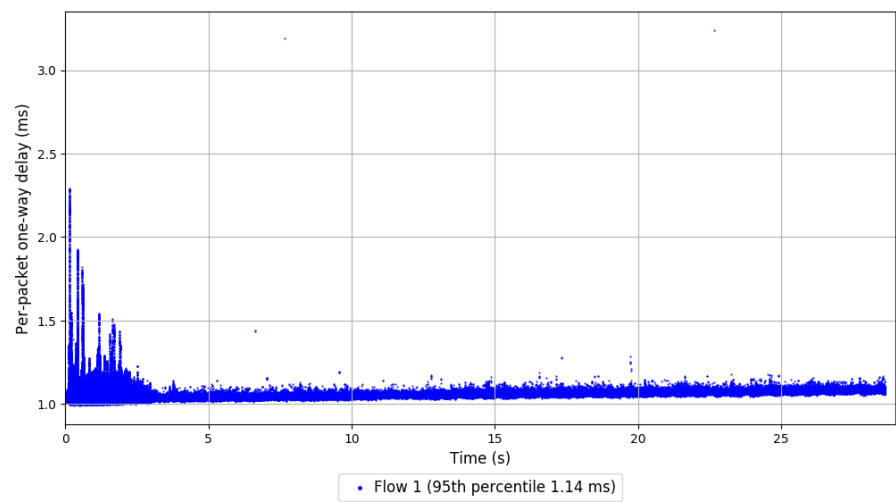
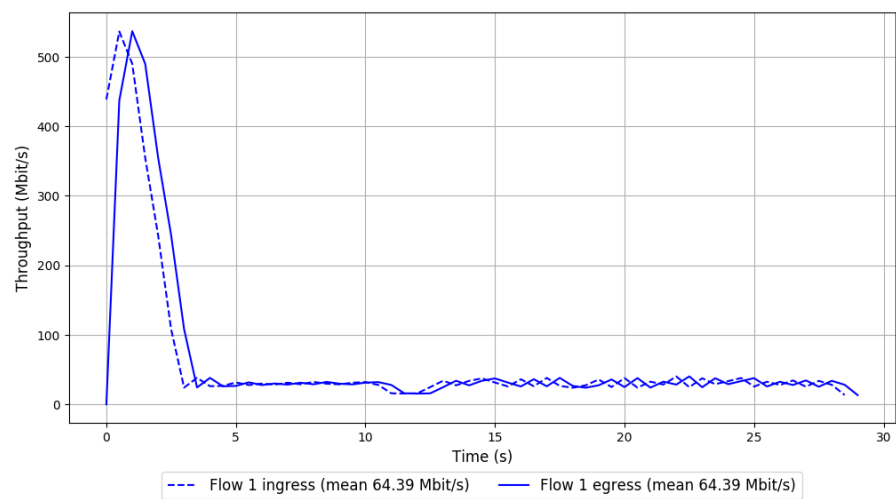
-- Flow 1:

Average throughput: 64.39 Mbit/s

95th percentile per-packet one-way delay: 1.143 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-02-05 15:05:44

End at: 2019-02-05 15:06:14

Local clock offset: -3.289 ms

Remote clock offset: 0.385 ms

Below is generated by plot.py at 2019-02-05 16:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.64 Mbit/s

95th percentile per-packet one-way delay: 1.141 ms

Loss rate: 0.00%

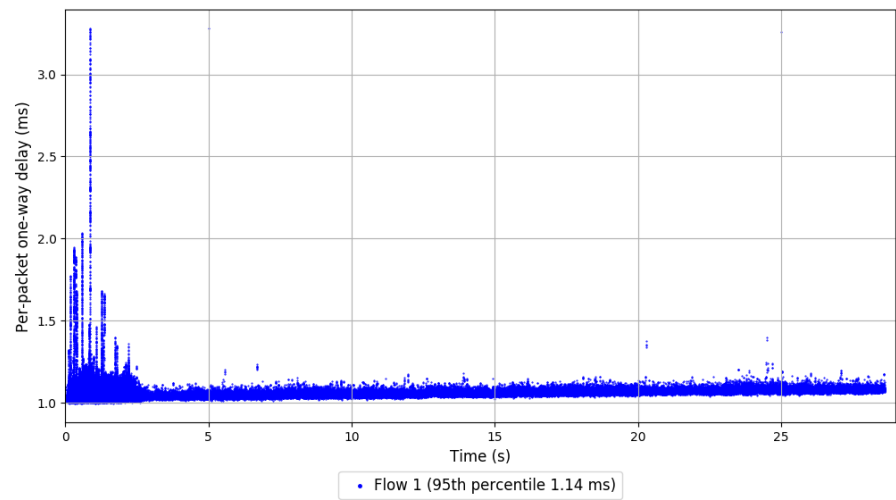
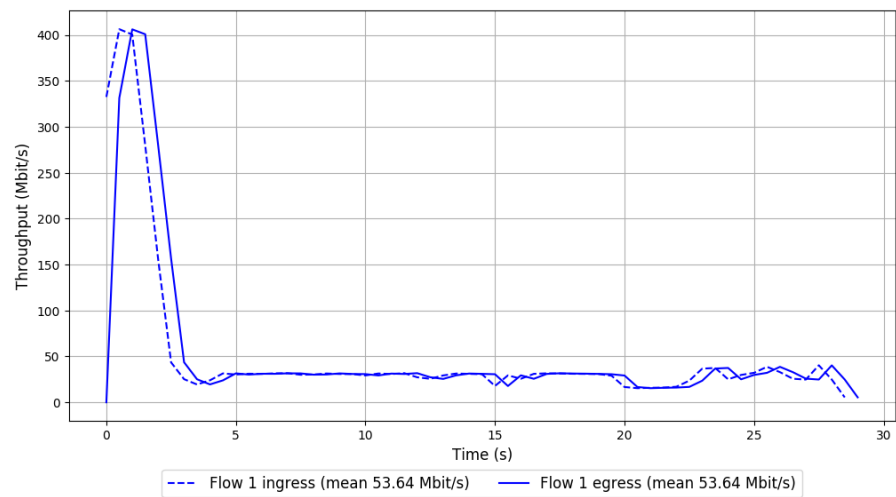
-- Flow 1:

Average throughput: 53.64 Mbit/s

95th percentile per-packet one-way delay: 1.141 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesC5 — Data Link

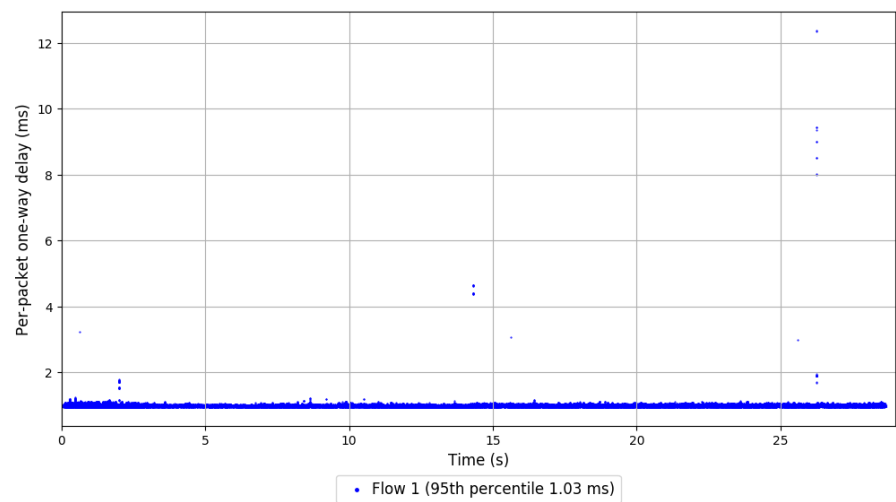
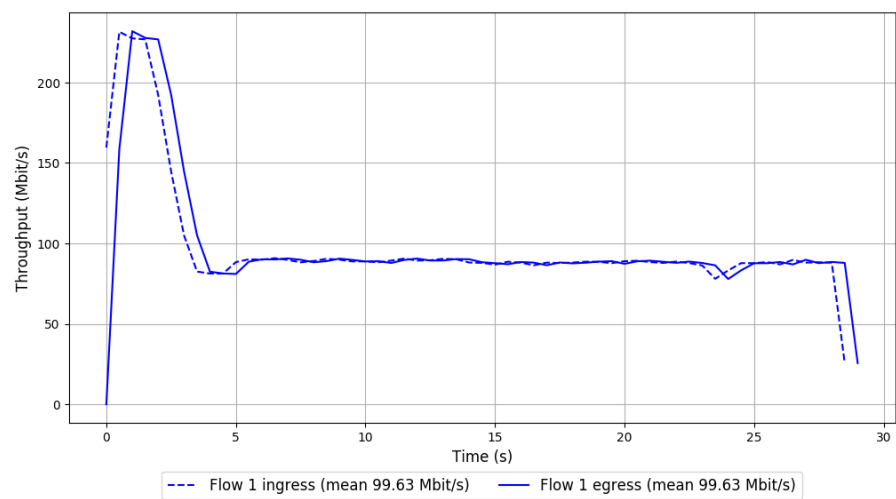


```
Run 1: Statistics of Indigo-MusesD

Start at: 2019-02-05 12:59:05
End at: 2019-02-05 12:59:35
Local clock offset: 0.501 ms
Remote clock offset: 0.155 ms

# Below is generated by plot.py at 2019-02-05 16:09:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 99.63 Mbit/s
95th percentile per-packet one-way delay: 1.026 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 99.63 Mbit/s
95th percentile per-packet one-way delay: 1.026 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-02-05 13:29:00

End at: 2019-02-05 13:29:30

Local clock offset: 0.269 ms

Remote clock offset: 1.116 ms

Below is generated by plot.py at 2019-02-05 16:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.60 Mbit/s

95th percentile per-packet one-way delay: 0.987 ms

Loss rate: 0.01%

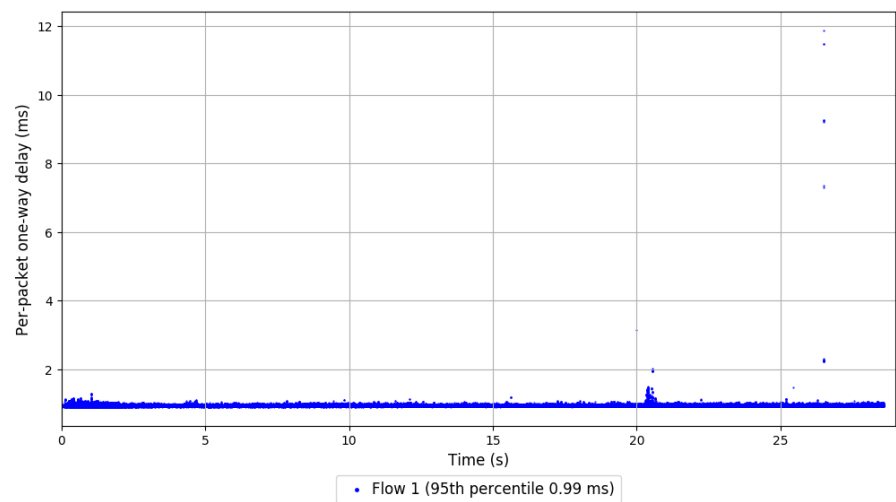
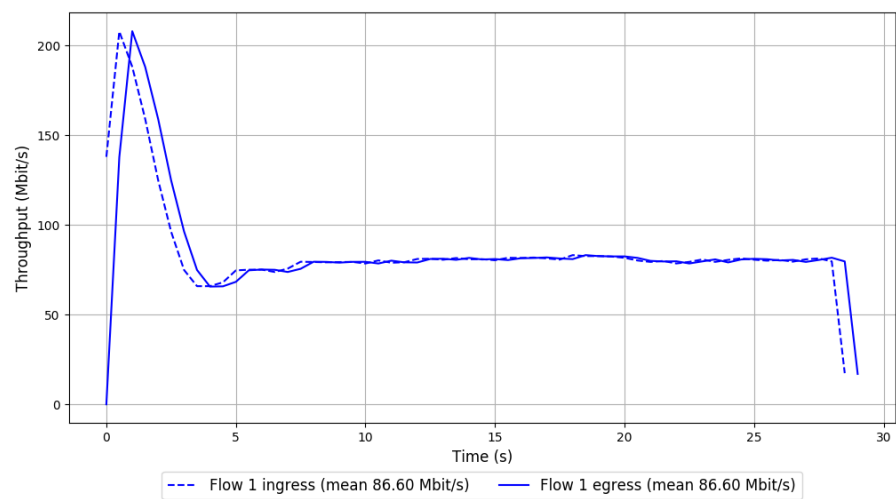
-- Flow 1:

Average throughput: 86.60 Mbit/s

95th percentile per-packet one-way delay: 0.987 ms

Loss rate: 0.01%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-02-05 13:58:54

End at: 2019-02-05 13:59:24

Local clock offset: 0.04 ms

Remote clock offset: -1.953 ms

Below is generated by plot.py at 2019-02-05 16:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.70 Mbit/s

95th percentile per-packet one-way delay: 0.936 ms

Loss rate: 0.00%

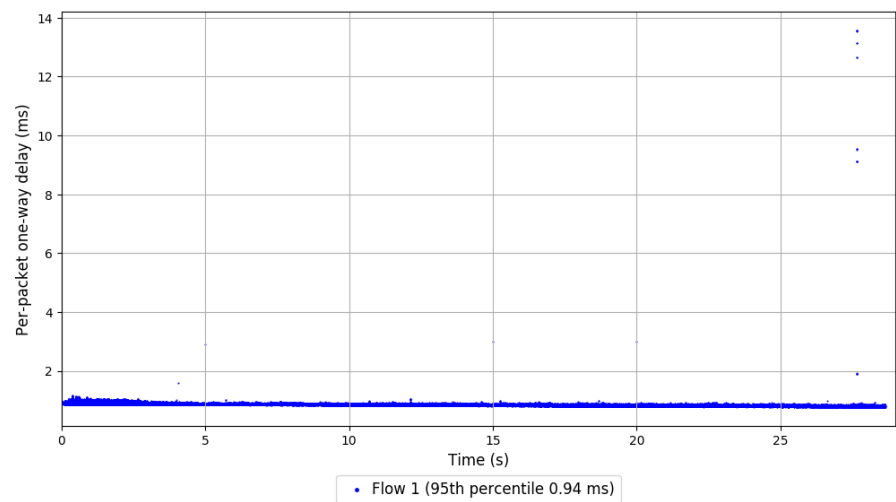
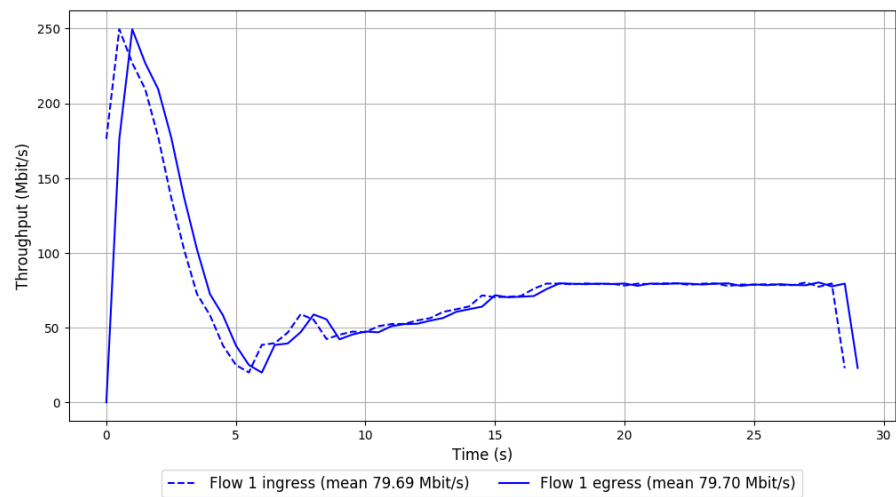
-- Flow 1:

Average throughput: 79.70 Mbit/s

95th percentile per-packet one-way delay: 0.936 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-02-05 14:28:46

End at: 2019-02-05 14:29:16

Local clock offset: 0.184 ms

Remote clock offset: -2.236 ms

Below is generated by plot.py at 2019-02-05 16:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.87 Mbit/s

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

Loss rate: 0.00%

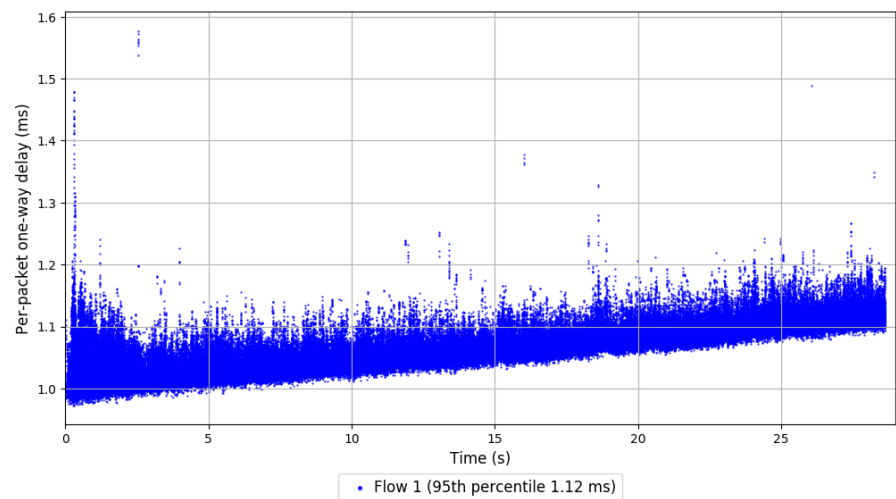
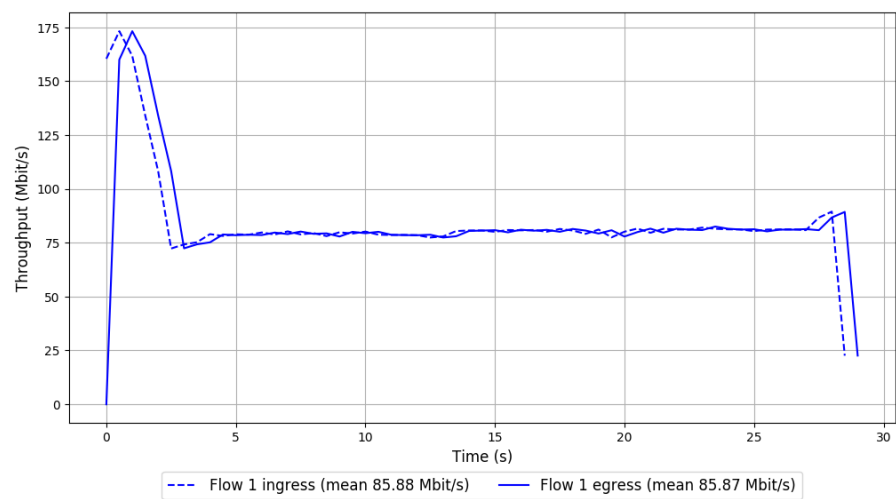
-- Flow 1:

Average throughput: 85.87 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-02-05 14:58:36

End at: 2019-02-05 14:59:06

Local clock offset: -2.556 ms

Remote clock offset: 0.079 ms

Below is generated by plot.py at 2019-02-05 16:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.38 Mbit/s

95th percentile per-packet one-way delay: 1.243 ms

Loss rate: 0.01%

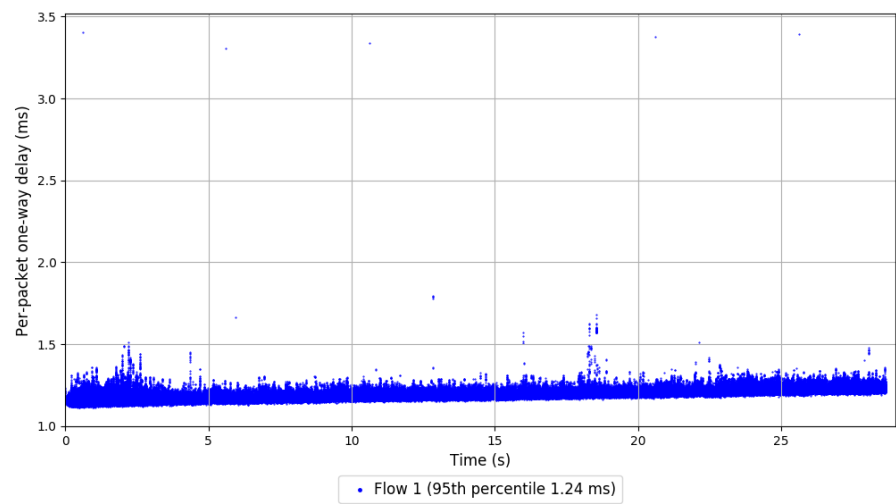
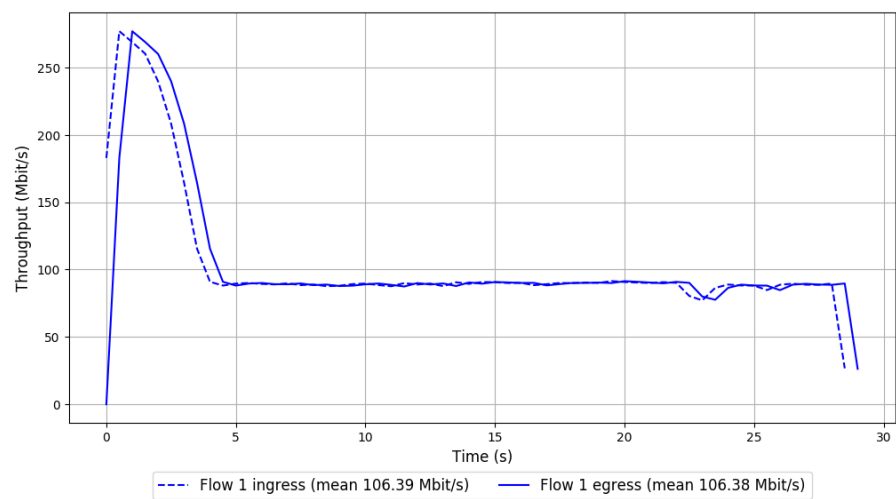
-- Flow 1:

Average throughput: 106.38 Mbit/s

95th percentile per-packet one-way delay: 1.243 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesD — Data Link

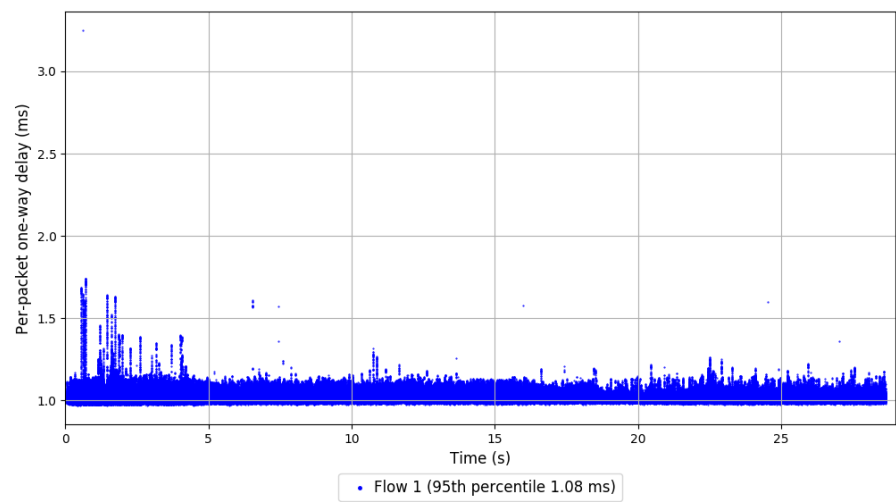
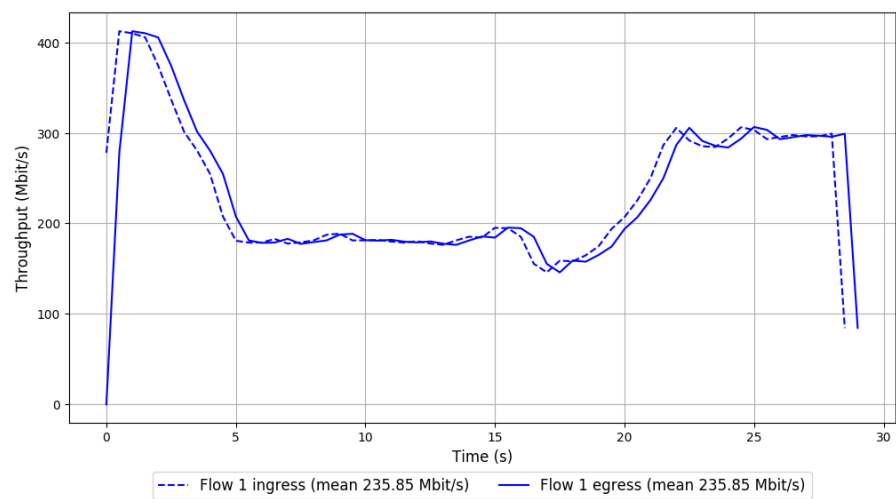


```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-02-05 13:08:42
End at: 2019-02-05 13:09:12
Local clock offset: 0.59 ms
Remote clock offset: 0.285 ms

# Below is generated by plot.py at 2019-02-05 16:09:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 235.85 Mbit/s
95th percentile per-packet one-way delay: 1.084 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 235.85 Mbit/s
95th percentile per-packet one-way delay: 1.084 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-02-05 13:38:40

End at: 2019-02-05 13:39:10

Local clock offset: 0.195 ms

Remote clock offset: 1.518 ms

Below is generated by plot.py at 2019-02-05 16:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.99 Mbit/s

95th percentile per-packet one-way delay: 1.029 ms

Loss rate: 0.01%

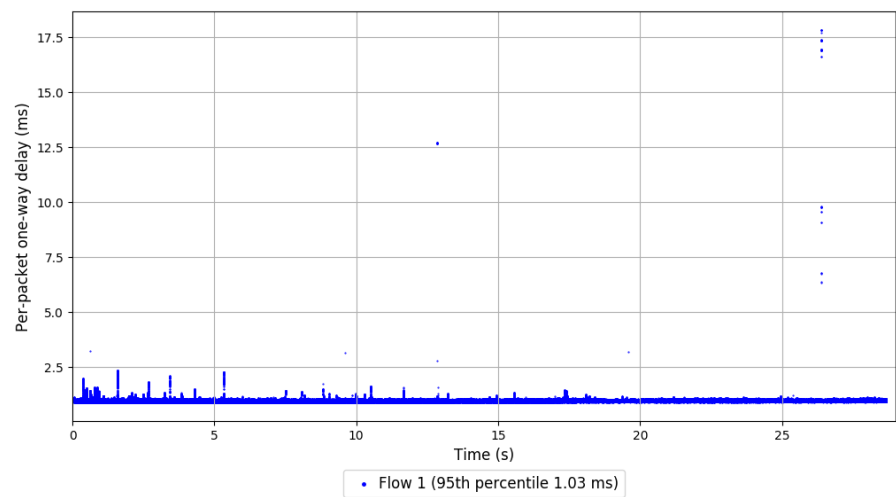
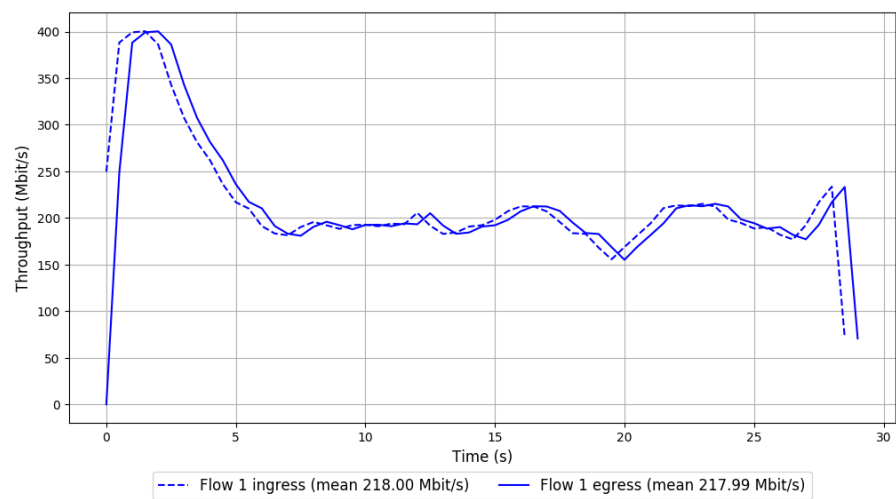
-- Flow 1:

Average throughput: 217.99 Mbit/s

95th percentile per-packet one-way delay: 1.029 ms

Loss rate: 0.01%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-02-05 14:08:29

End at: 2019-02-05 14:08:59

Local clock offset: 0.0 ms

Remote clock offset: -3.471 ms

Below is generated by plot.py at 2019-02-05 16:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.50 Mbit/s

95th percentile per-packet one-way delay: 1.010 ms

Loss rate: 0.00%

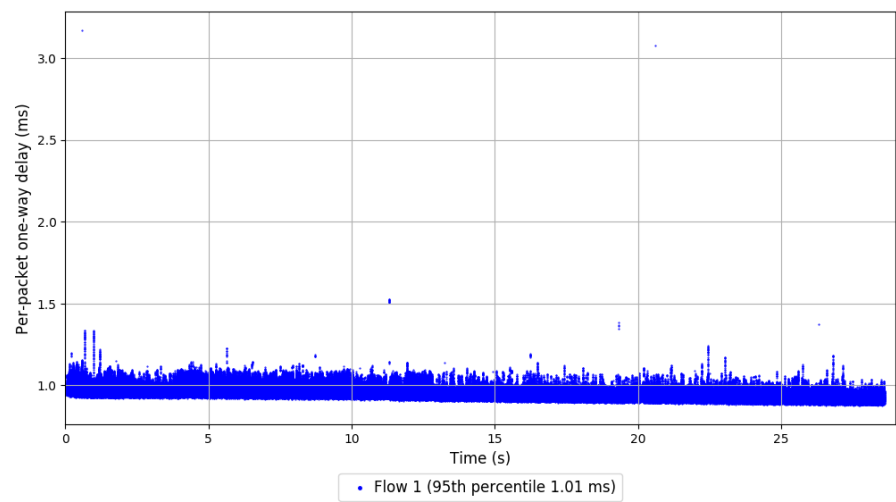
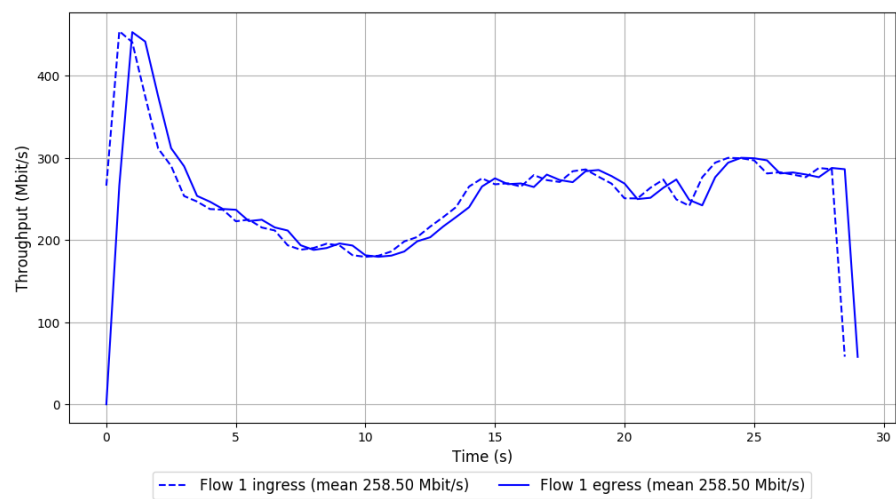
-- Flow 1:

Average throughput: 258.50 Mbit/s

95th percentile per-packet one-way delay: 1.010 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-02-05 14:38:21

End at: 2019-02-05 14:38:51

Local clock offset: 0.24 ms

Remote clock offset: -0.72 ms

Below is generated by plot.py at 2019-02-05 16:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 261.16 Mbit/s

95th percentile per-packet one-way delay: 1.133 ms

Loss rate: 0.01%

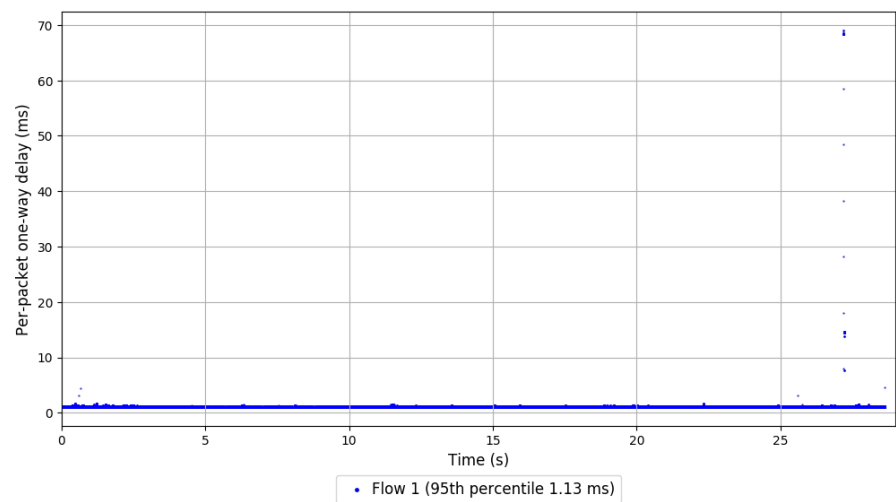
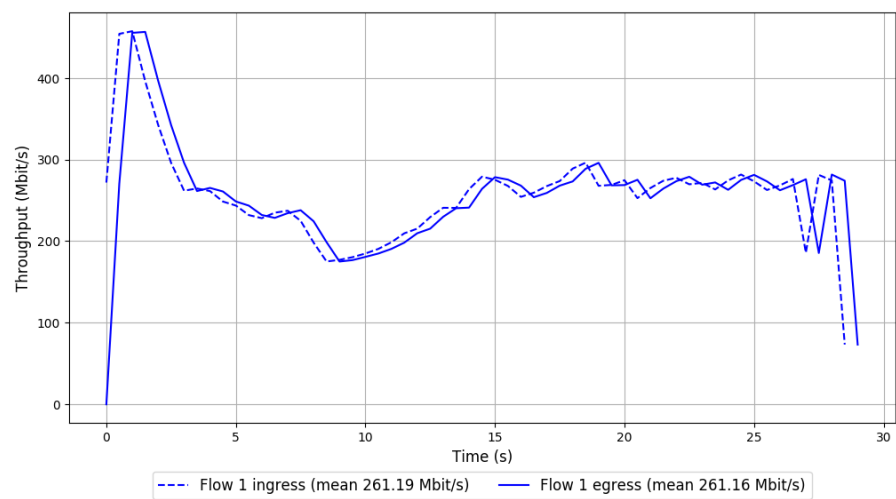
-- Flow 1:

Average throughput: 261.16 Mbit/s

95th percentile per-packet one-way delay: 1.133 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-02-05 15:08:12

End at: 2019-02-05 15:08:42

Local clock offset: -3.454 ms

Remote clock offset: 0.401 ms

Below is generated by plot.py at 2019-02-05 16:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 263.99 Mbit/s

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

Loss rate: 0.00%

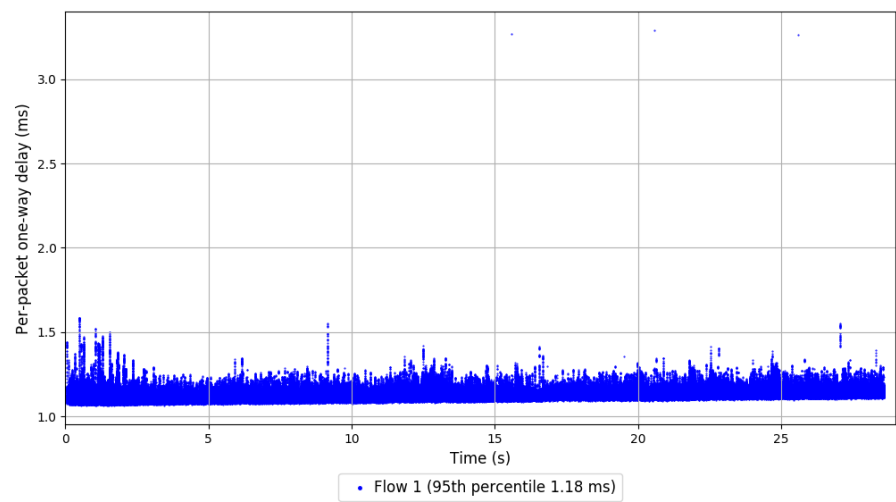
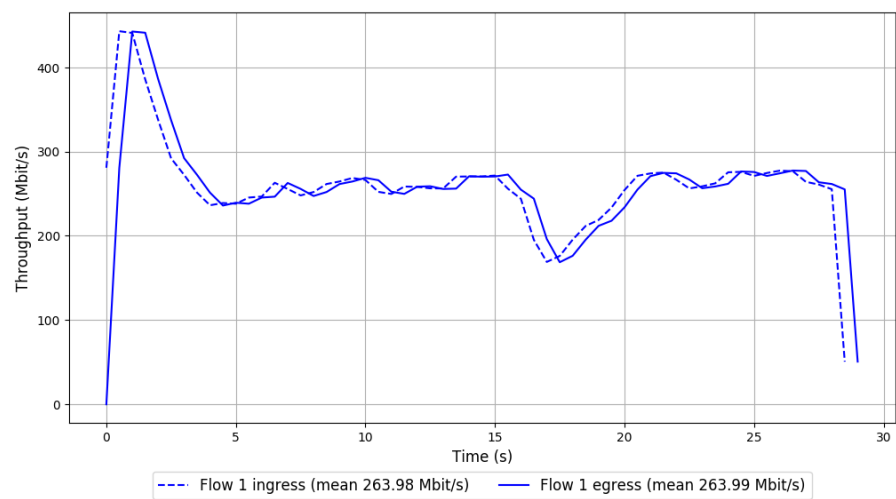
-- Flow 1:

Average throughput: 263.99 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of Indigo-MusesT — Data Link

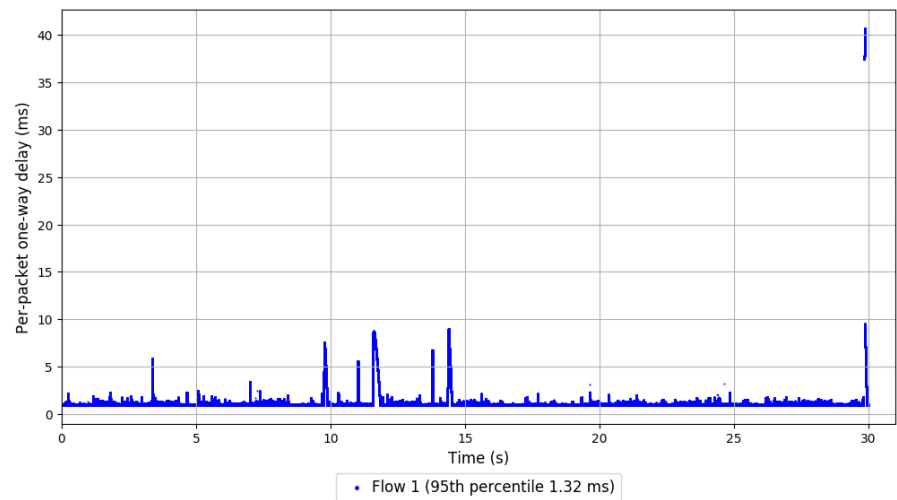
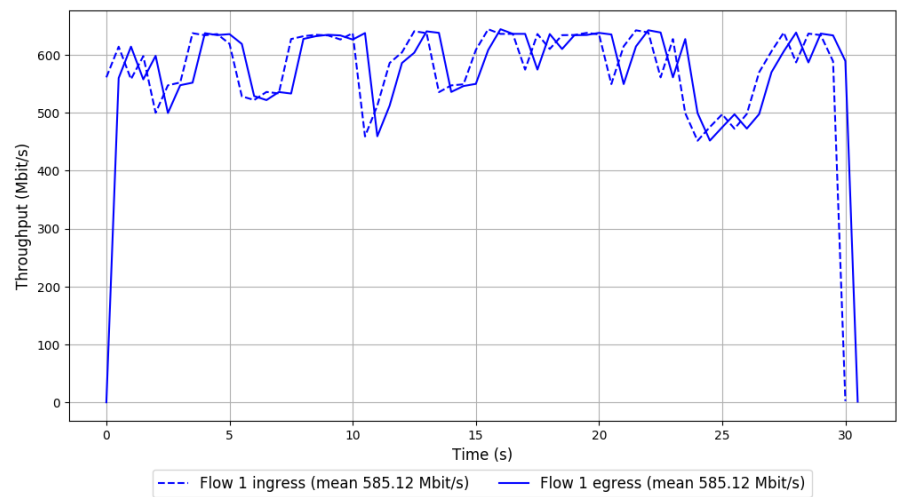


```
Run 1: Statistics of LEDBAT

Start at: 2019-02-05 13:13:06
End at: 2019-02-05 13:13:36
Local clock offset: 0.601 ms
Remote clock offset: 0.423 ms

# Below is generated by plot.py at 2019-02-05 16:09:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 585.12 Mbit/s
95th percentile per-packet one-way delay: 1.317 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 585.12 Mbit/s
95th percentile per-packet one-way delay: 1.317 ms
Loss rate: 0.01%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-02-05 13:43:02

End at: 2019-02-05 13:43:32

Local clock offset: 0.168 ms

Remote clock offset: 1.618 ms

Below is generated by plot.py at 2019-02-05 16:10:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 553.98 Mbit/s

95th percentile per-packet one-way delay: 1.423 ms

Loss rate: 0.01%

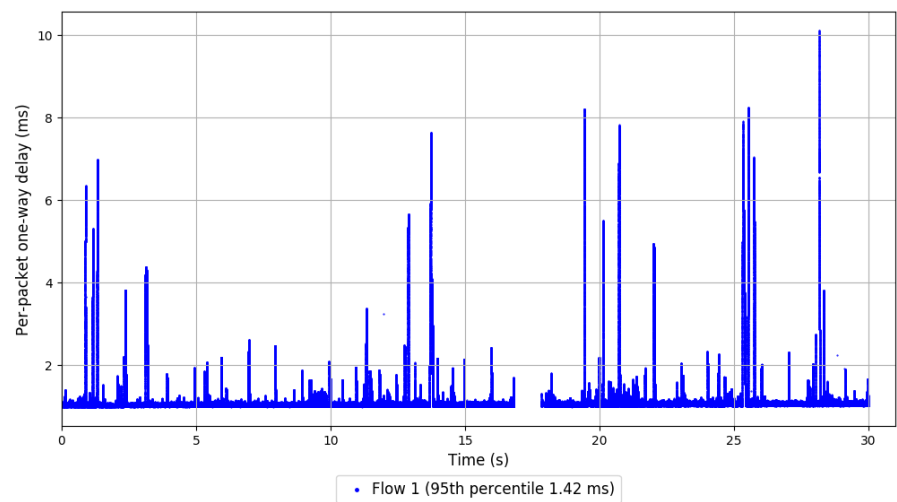
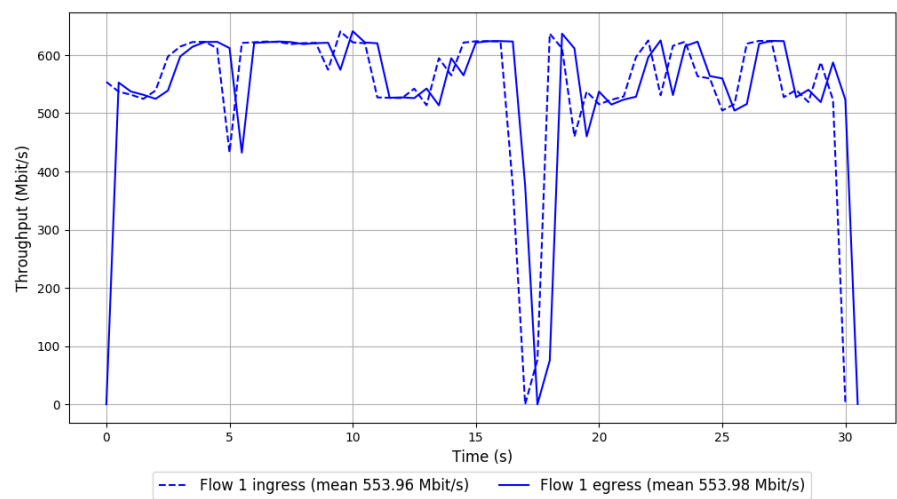
-- Flow 1:

Average throughput: 553.98 Mbit/s

95th percentile per-packet one-way delay: 1.423 ms

Loss rate: 0.01%

Run 2: Report of LEDBAT — Data Link

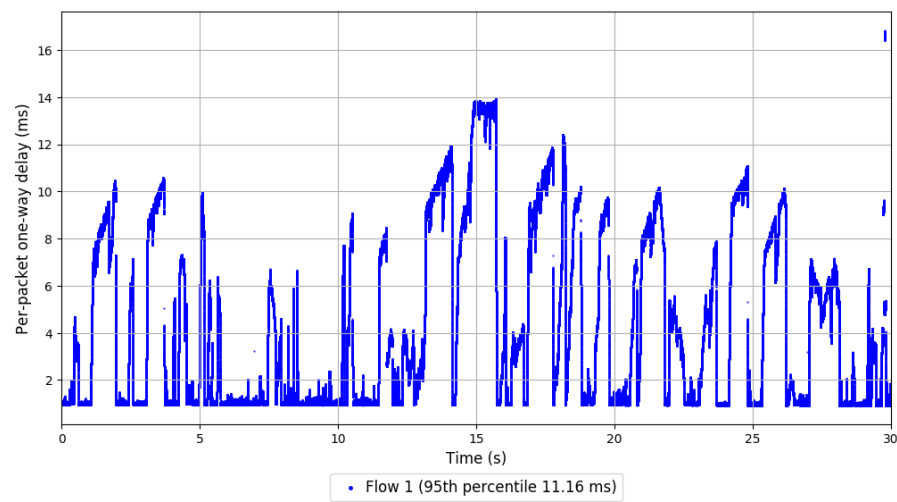
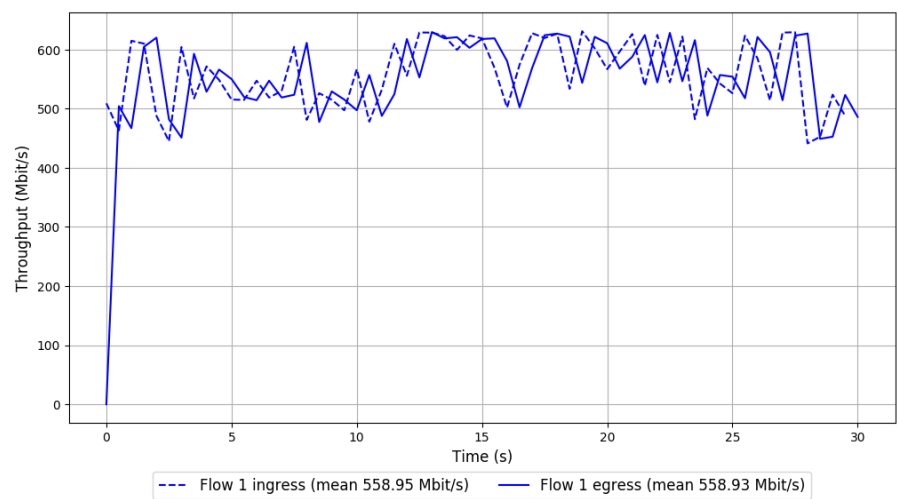


Run 3: Statistics of LEDBAT

Start at: 2019-02-05 14:12:54
End at: 2019-02-05 14:13:24
Local clock offset: -0.023 ms
Remote clock offset: -3.941 ms

Below is generated by plot.py at 2019-02-05 16:11:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 558.93 Mbit/s
95th percentile per-packet one-way delay: 11.158 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 558.93 Mbit/s
95th percentile per-packet one-way delay: 11.158 ms
Loss rate: 0.01%

Run 3: Report of LEDBAT — Data Link

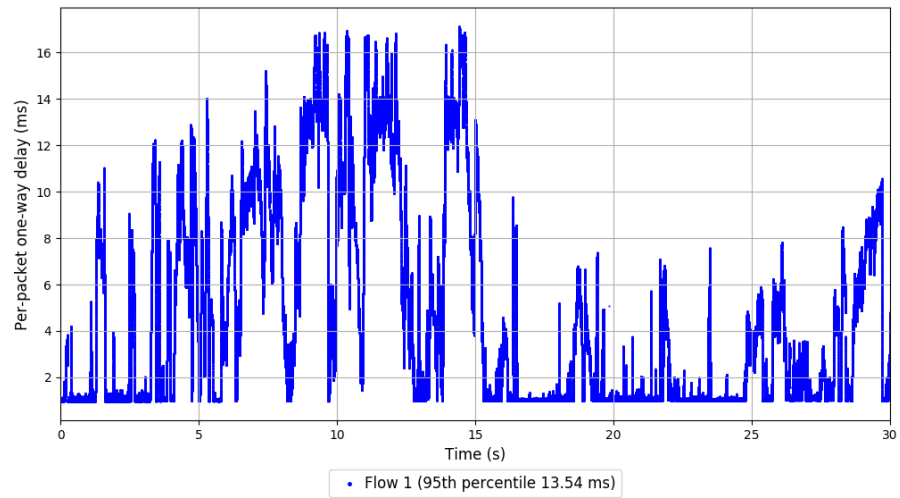
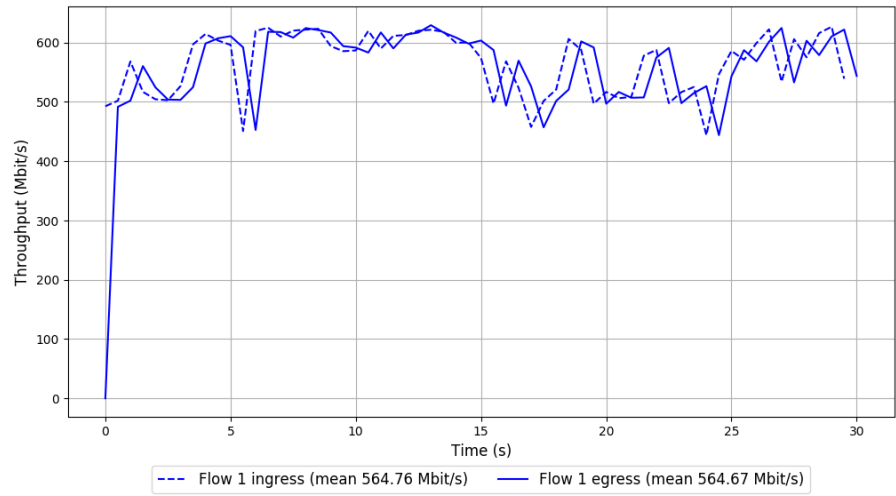


Run 4: Statistics of LEDBAT

Start at: 2019-02-05 14:42:40
End at: 2019-02-05 14:43:10
Local clock offset: 0.255 ms
Remote clock offset: -0.339 ms

Below is generated by plot.py at 2019-02-05 16:11:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 564.67 Mbit/s
95th percentile per-packet one-way delay: 13.542 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 564.67 Mbit/s
95th percentile per-packet one-way delay: 13.542 ms
Loss rate: 0.02%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-02-05 15:12:23

End at: 2019-02-05 15:12:53

Local clock offset: -3.714 ms

Remote clock offset: 0.509 ms

Below is generated by plot.py at 2019-02-05 16:11:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 534.49 Mbit/s

95th percentile per-packet one-way delay: 4.571 ms

Loss rate: 0.01%

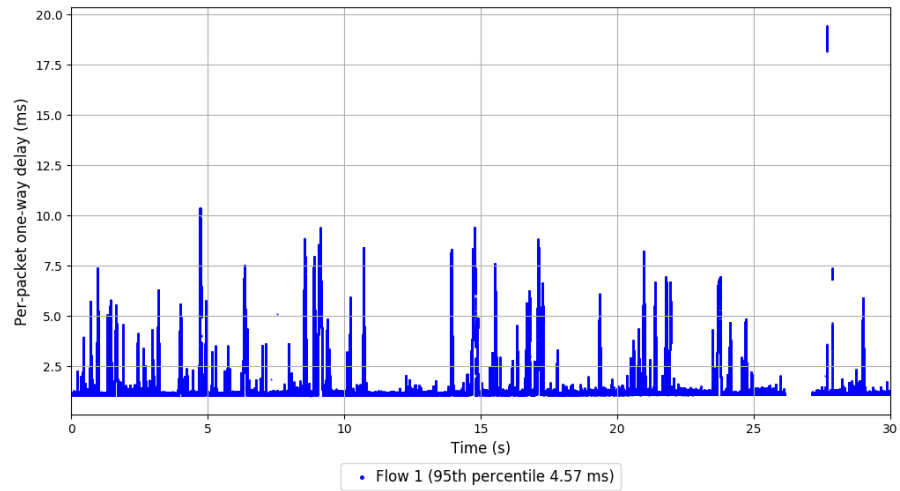
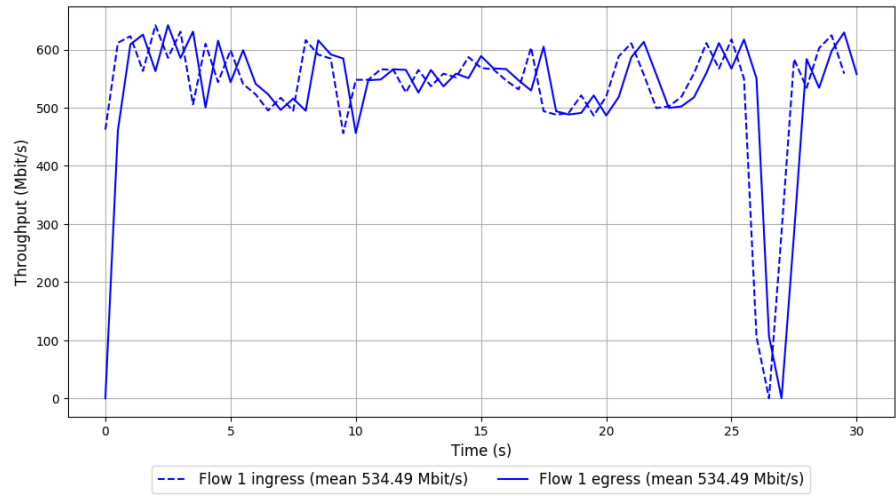
-- Flow 1:

Average throughput: 534.49 Mbit/s

95th percentile per-packet one-way delay: 4.571 ms

Loss rate: 0.01%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-02-05 13:14:44

End at: 2019-02-05 13:15:14

Local clock offset: 0.615 ms

Remote clock offset: 0.514 ms

Below is generated by plot.py at 2019-02-05 16:12:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 673.50 Mbit/s

95th percentile per-packet one-way delay: 1.012 ms

Loss rate: 0.01%

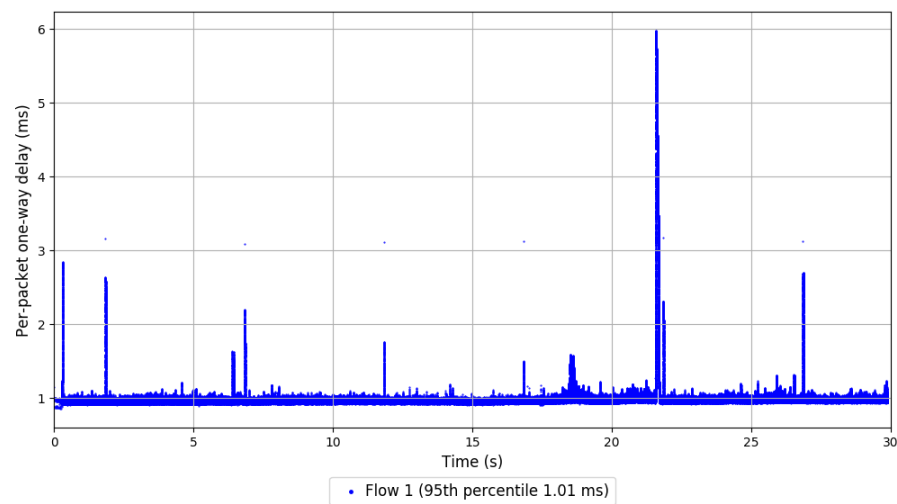
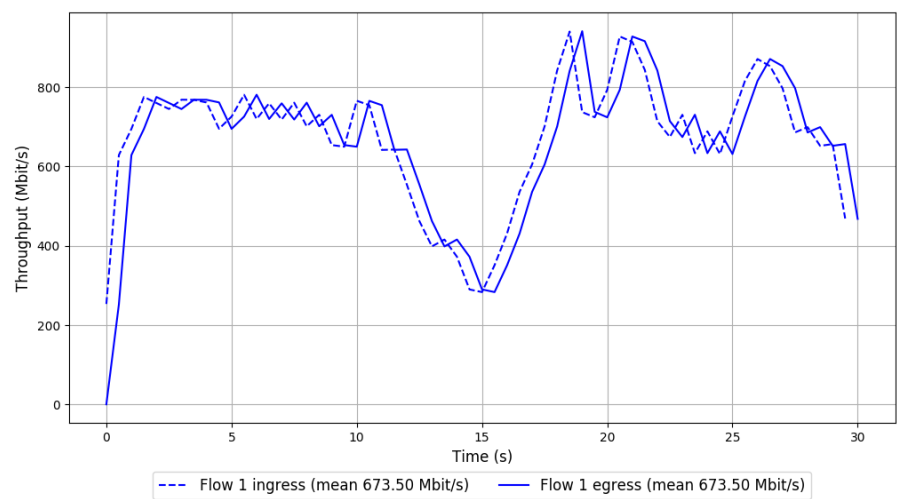
-- Flow 1:

Average throughput: 673.50 Mbit/s

95th percentile per-packet one-way delay: 1.012 ms

Loss rate: 0.01%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-02-05 13:44:38

End at: 2019-02-05 13:45:08

Local clock offset: 0.171 ms

Remote clock offset: 1.752 ms

Below is generated by plot.py at 2019-02-05 16:14:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 798.91 Mbit/s

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

Loss rate: 0.01%

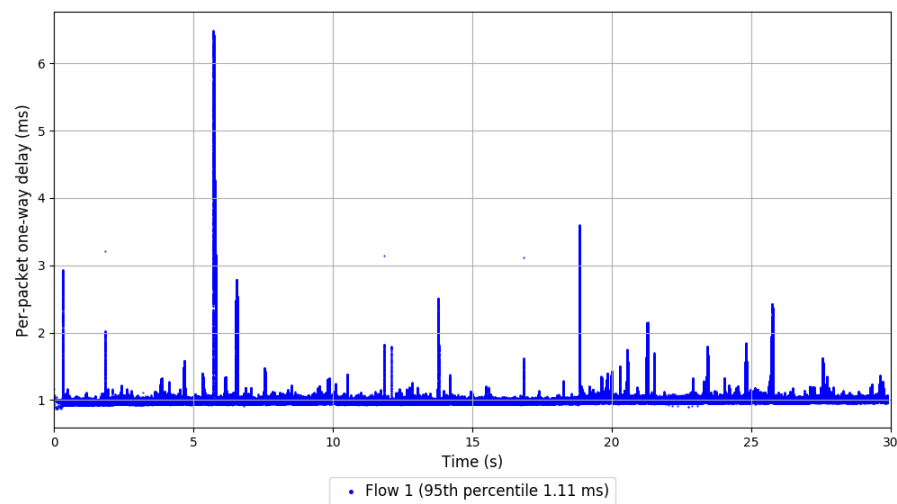
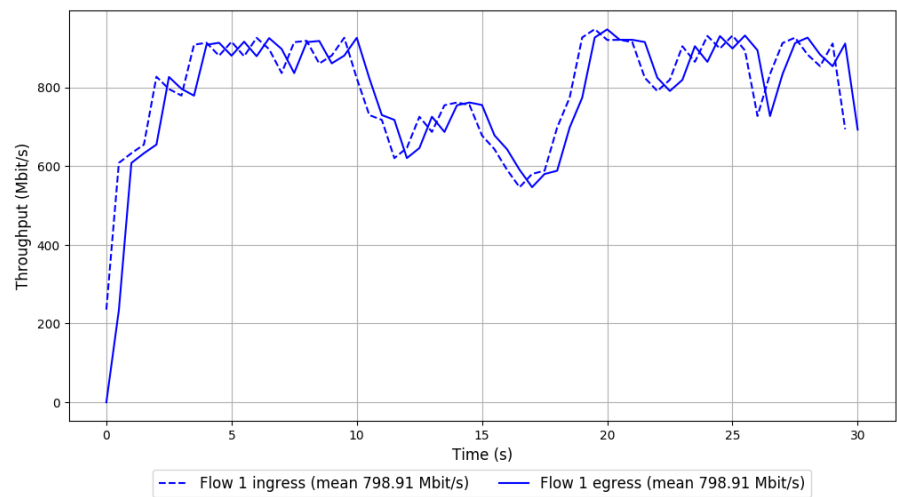
-- Flow 1:

Average throughput: 798.91 Mbit/s

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

Loss rate: 0.01%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-02-05 14:14:31

End at: 2019-02-05 14:15:01

Local clock offset: -0.024 ms

Remote clock offset: -4.03 ms

Below is generated by plot.py at 2019-02-05 16:17:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 715.18 Mbit/s

95th percentile per-packet one-way delay: 1.084 ms

Loss rate: 0.01%

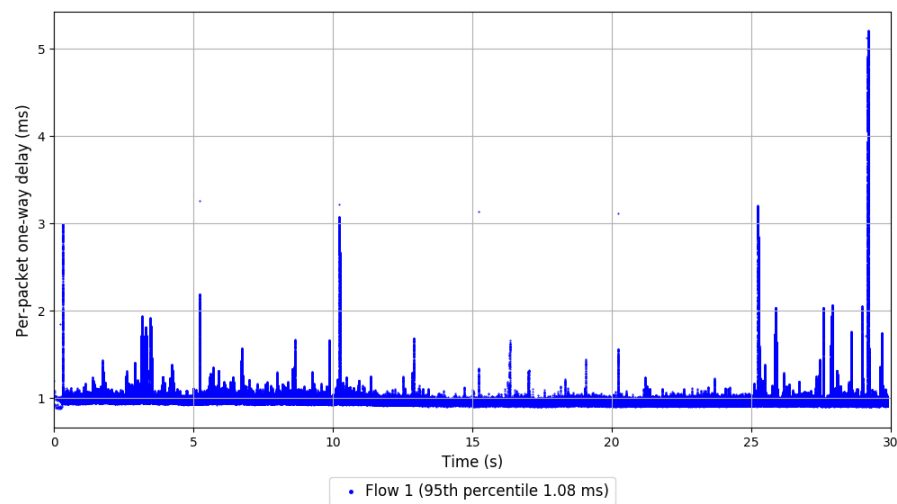
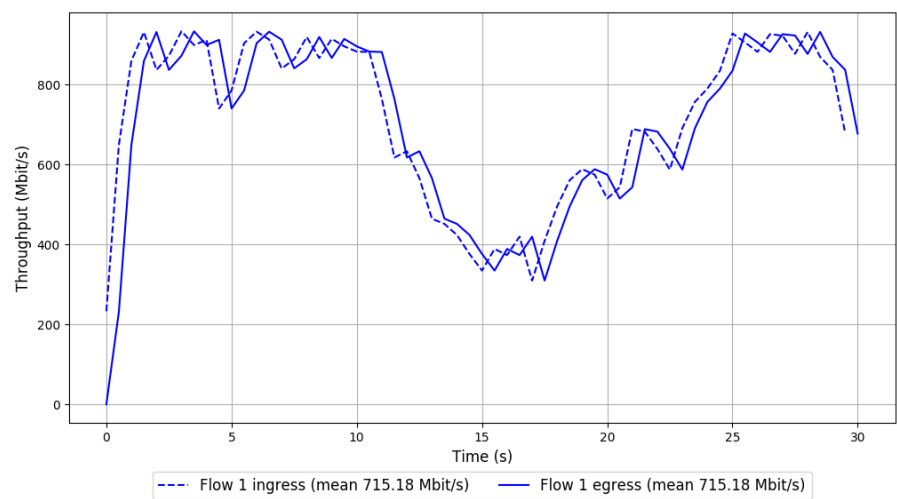
-- Flow 1:

Average throughput: 715.18 Mbit/s

95th percentile per-packet one-way delay: 1.084 ms

Loss rate: 0.01%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-02-05 14:44:17

End at: 2019-02-05 14:44:48

Local clock offset: 0.251 ms

Remote clock offset: -0.284 ms

Below is generated by plot.py at 2019-02-05 16:18:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 801.67 Mbit/s

95th percentile per-packet one-way delay: 1.579 ms

Loss rate: 0.00%

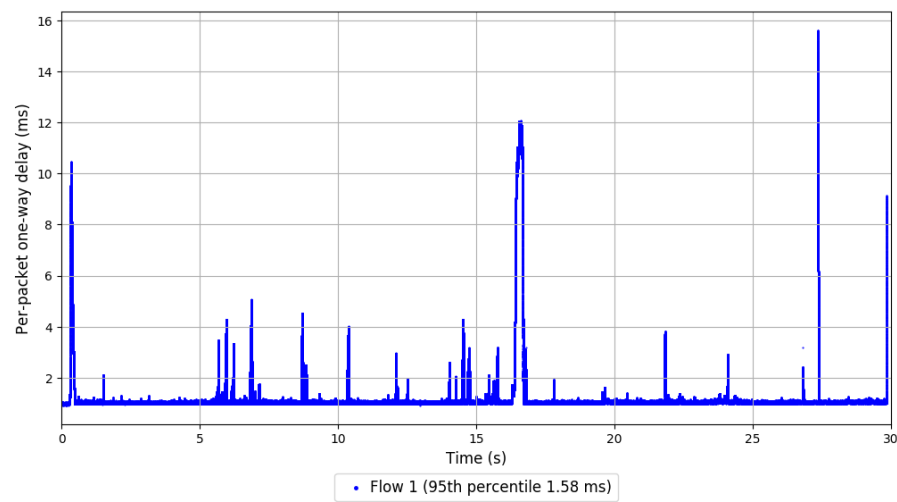
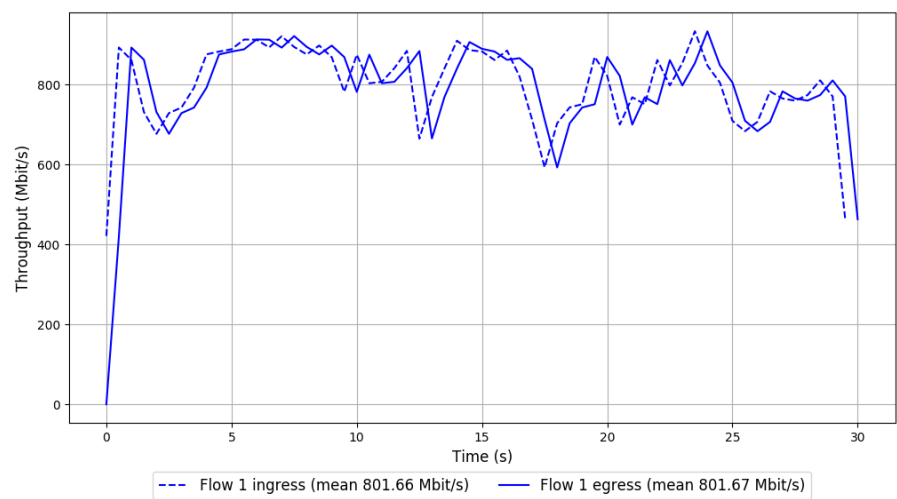
-- Flow 1:

Average throughput: 801.67 Mbit/s

95th percentile per-packet one-way delay: 1.579 ms

Loss rate: 0.00%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-02-05 15:13:58

End at: 2019-02-05 15:14:28

Local clock offset: -3.796 ms

Remote clock offset: 0.538 ms

Below is generated by plot.py at 2019-02-05 16:18:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 696.80 Mbit/s

95th percentile per-packet one-way delay: 13.017 ms

Loss rate: 0.58%

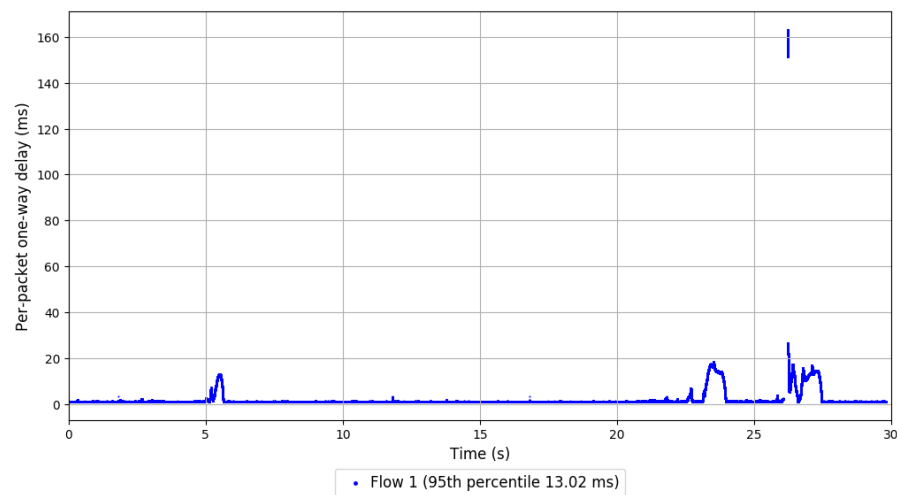
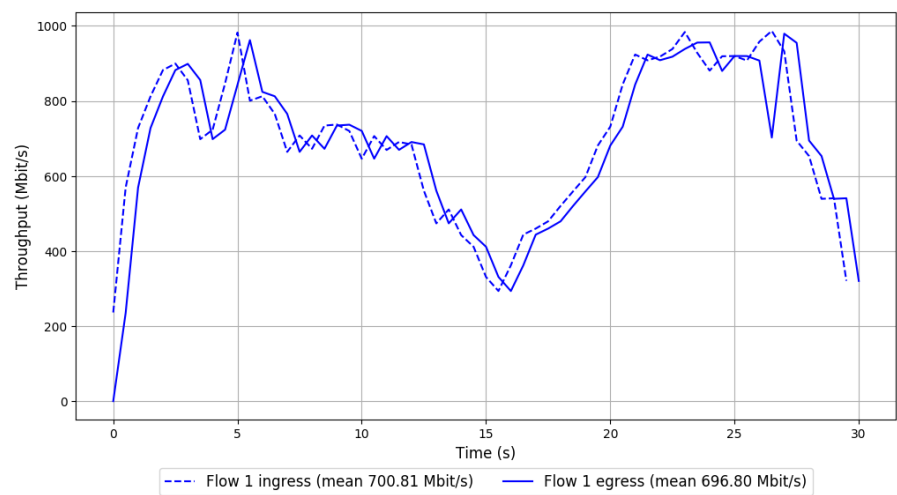
-- Flow 1:

Average throughput: 696.80 Mbit/s

95th percentile per-packet one-way delay: 13.017 ms

Loss rate: 0.58%

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2019-02-05 13:10:03

End at: 2019-02-05 13:10:33

Local clock offset: 0.593 ms

Remote clock offset: 0.369 ms

Below is generated by plot.py at 2019-02-05 16:18:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 342.98 Mbit/s

95th percentile per-packet one-way delay: 1.118 ms

Loss rate: 0.01%

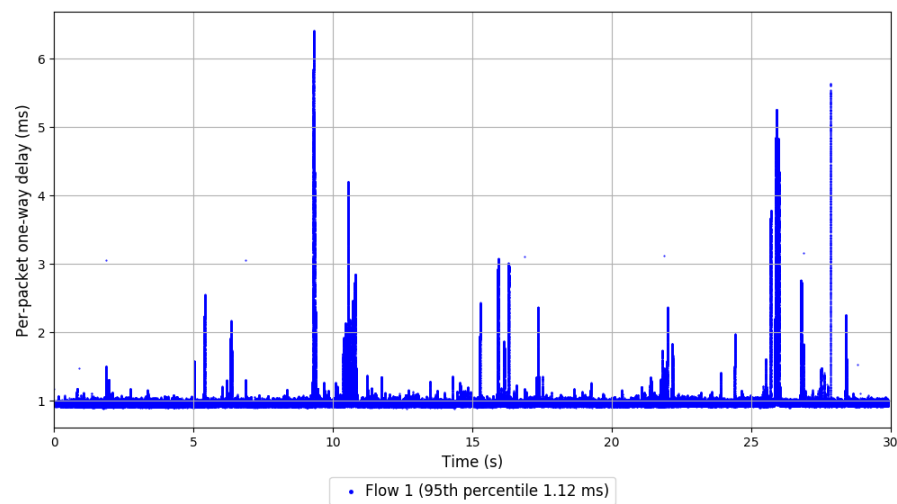
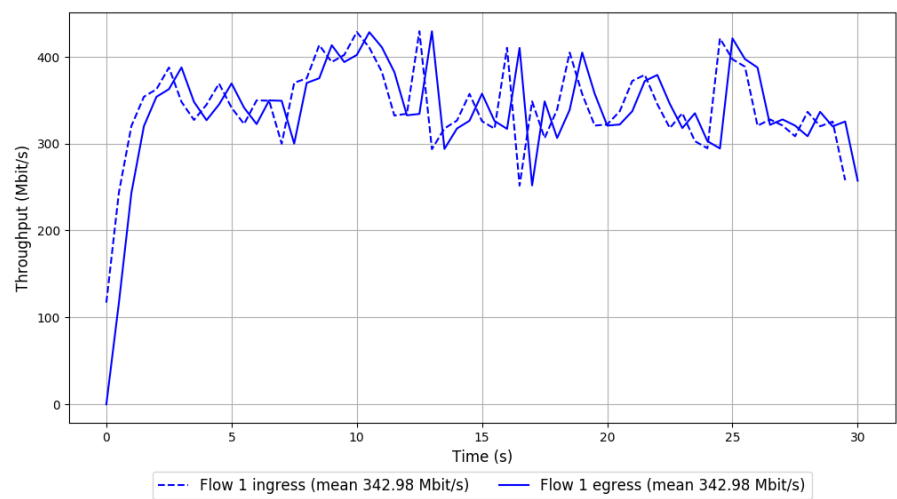
-- Flow 1:

Average throughput: 342.98 Mbit/s

95th percentile per-packet one-way delay: 1.118 ms

Loss rate: 0.01%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-02-05 13:40:00

End at: 2019-02-05 13:40:30

Local clock offset: 0.183 ms

Remote clock offset: 1.48 ms

Below is generated by plot.py at 2019-02-05 16:18:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 335.61 Mbit/s

95th percentile per-packet one-way delay: 1.084 ms

Loss rate: 0.04%

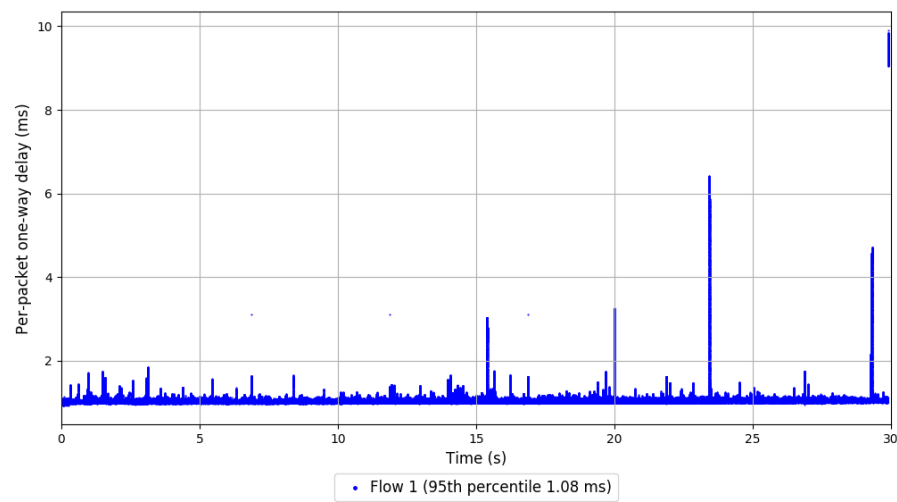
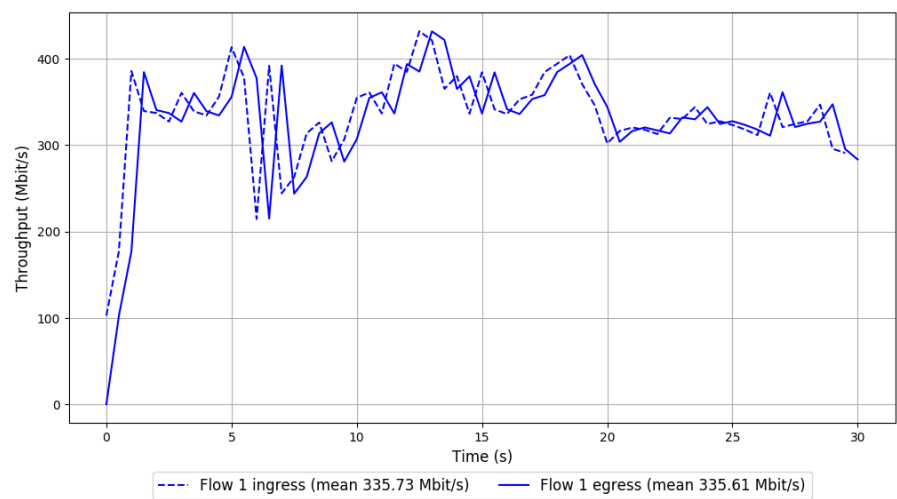
-- Flow 1:

Average throughput: 335.61 Mbit/s

95th percentile per-packet one-way delay: 1.084 ms

Loss rate: 0.04%

Run 2: Report of PCC-Expr — Data Link

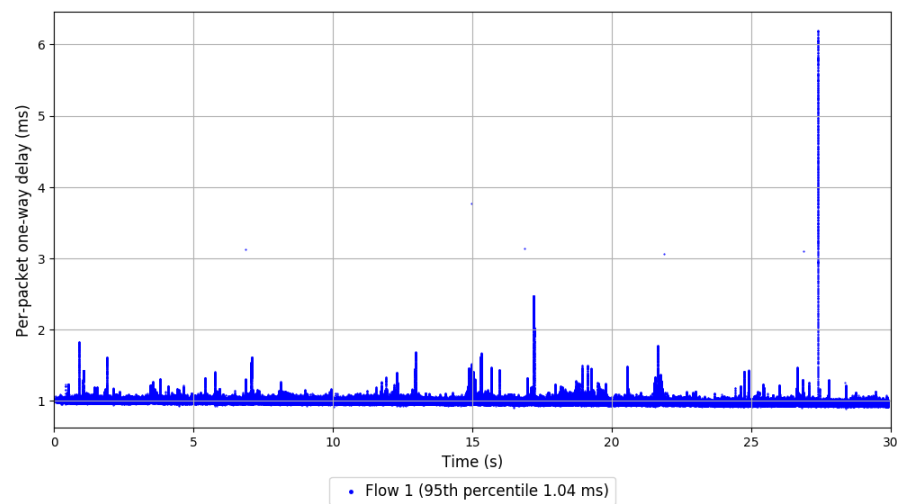
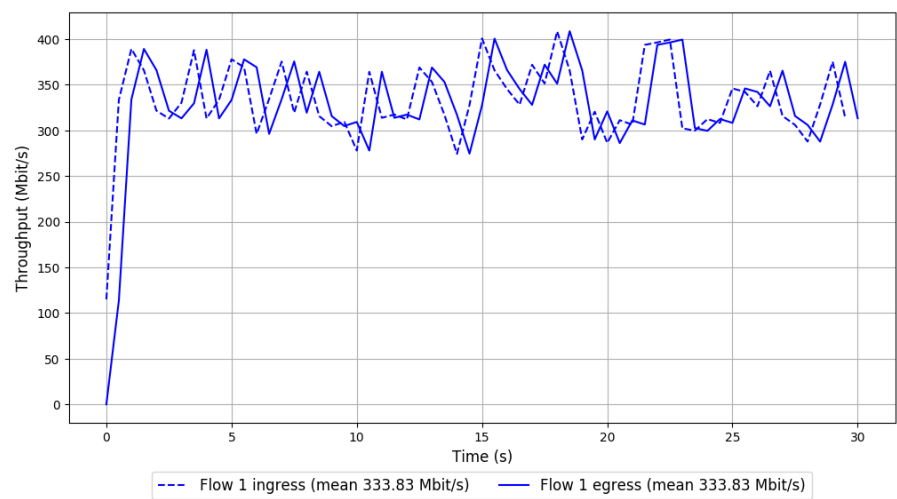


Run 3: Statistics of PCC-Expr

Start at: 2019-02-05 14:09:51
End at: 2019-02-05 14:10:21
Local clock offset: 0.001 ms
Remote clock offset: -3.666 ms

Below is generated by plot.py at 2019-02-05 16:18:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 333.83 Mbit/s
95th percentile per-packet one-way delay: 1.038 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 333.83 Mbit/s
95th percentile per-packet one-way delay: 1.038 ms
Loss rate: 0.01%

Run 3: Report of PCC-Expr — Data Link

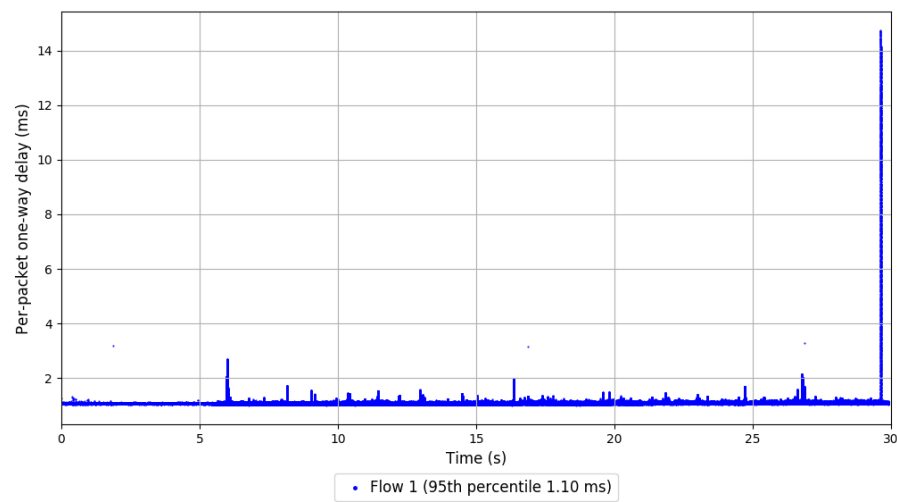
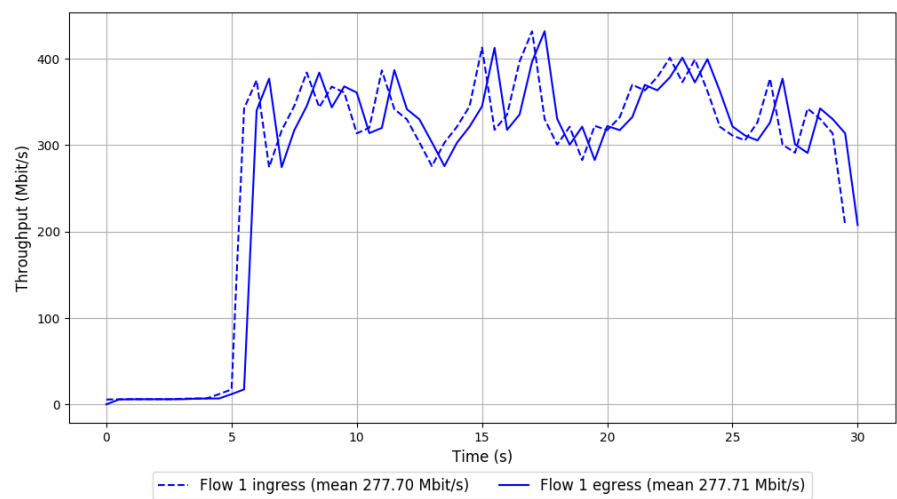


Run 4: Statistics of PCC-Expr

Start at: 2019-02-05 14:39:42
End at: 2019-02-05 14:40:12
Local clock offset: 0.243 ms
Remote clock offset: -0.596 ms

Below is generated by plot.py at 2019-02-05 16:19:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 277.71 Mbit/s
95th percentile per-packet one-way delay: 1.103 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 277.71 Mbit/s
95th percentile per-packet one-way delay: 1.103 ms
Loss rate: 0.01%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-02-05 15:09:33

End at: 2019-02-05 15:10:03

Local clock offset: -3.534 ms

Remote clock offset: 0.565 ms

Below is generated by plot.py at 2019-02-05 16:19:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 116.25 Mbit/s

95th percentile per-packet one-way delay: 1.054 ms

Loss rate: 0.02%

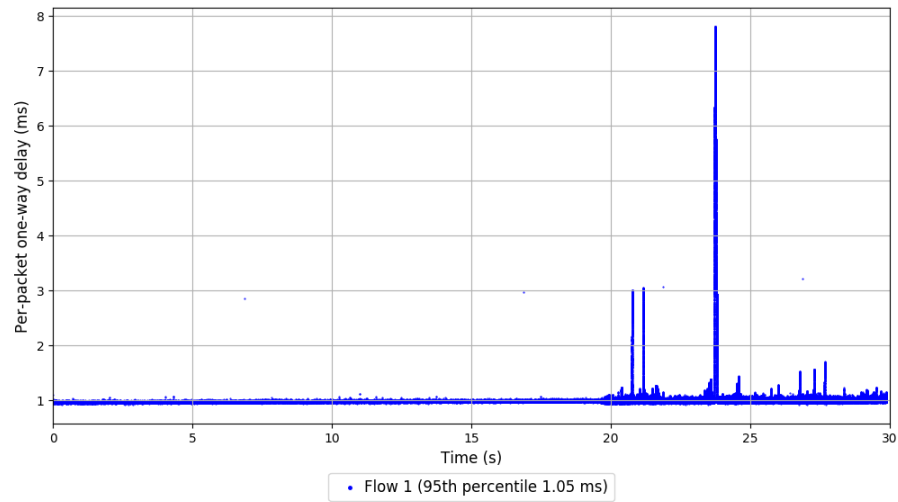
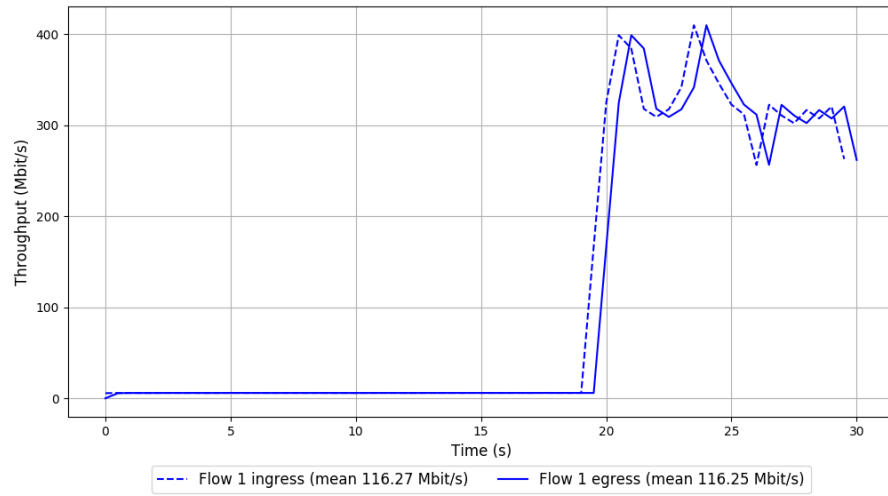
-- Flow 1:

Average throughput: 116.25 Mbit/s

95th percentile per-packet one-way delay: 1.054 ms

Loss rate: 0.02%

Run 5: Report of PCC-Expr — Data Link

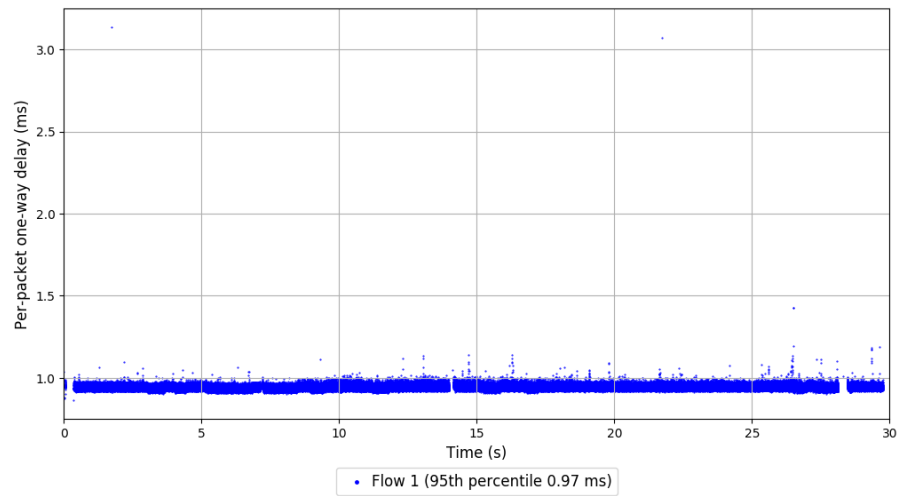
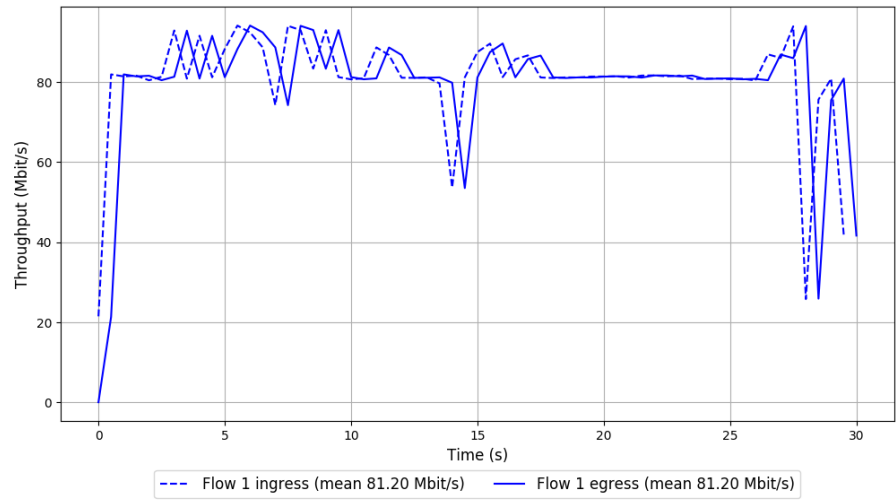


```
Run 1: Statistics of QUIC Cubic

Start at: 2019-02-05 13:03:20
End at: 2019-02-05 13:03:50
Local clock offset: 0.549 ms
Remote clock offset: 0.252 ms

# Below is generated by plot.py at 2019-02-05 16:19:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.20 Mbit/s
95th percentile per-packet one-way delay: 0.966 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 81.20 Mbit/s
95th percentile per-packet one-way delay: 0.966 ms
Loss rate: 0.01%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-02-05 13:33:14

End at: 2019-02-05 13:33:44

Local clock offset: 0.23 ms

Remote clock offset: 1.314 ms

Below is generated by plot.py at 2019-02-05 16:19:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.33 Mbit/s

95th percentile per-packet one-way delay: 0.949 ms

Loss rate: 0.01%

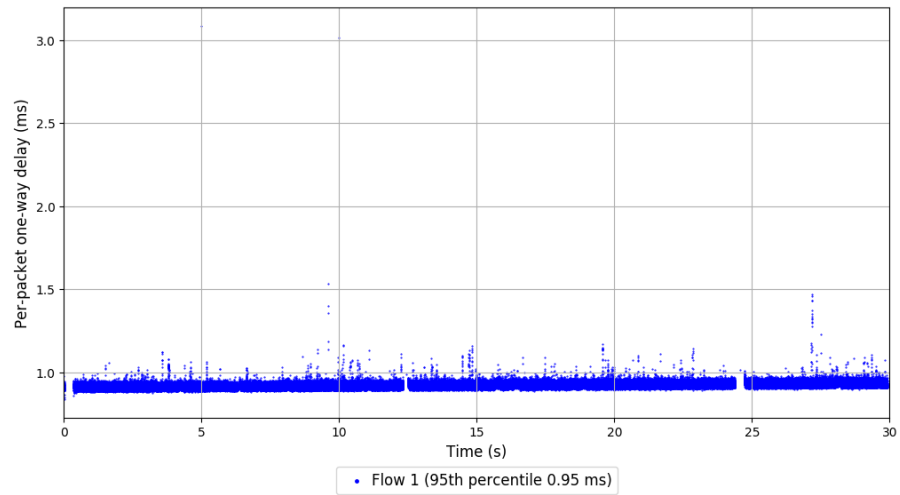
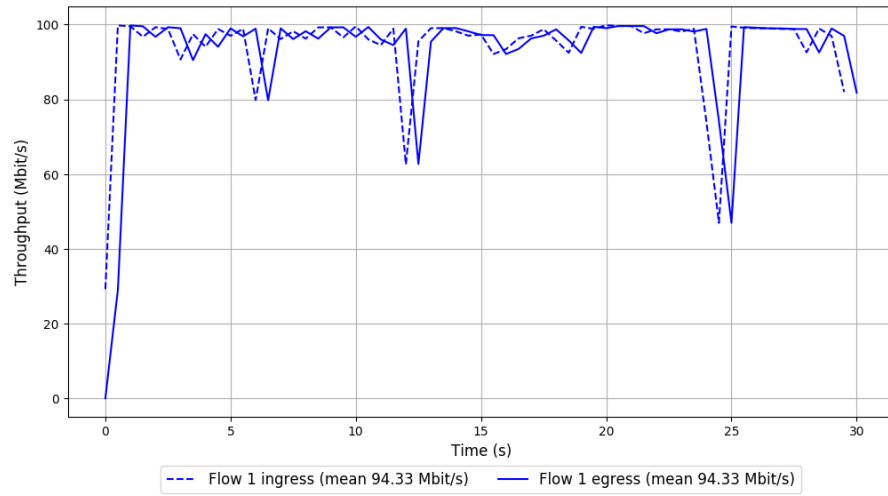
-- Flow 1:

Average throughput: 94.33 Mbit/s

95th percentile per-packet one-way delay: 0.949 ms

Loss rate: 0.01%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-02-05 14:03:07

End at: 2019-02-05 14:03:37

Local clock offset: 0.017 ms

Remote clock offset: -2.82 ms

Below is generated by plot.py at 2019-02-05 16:19:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.68 Mbit/s

95th percentile per-packet one-way delay: 0.986 ms

Loss rate: 0.01%

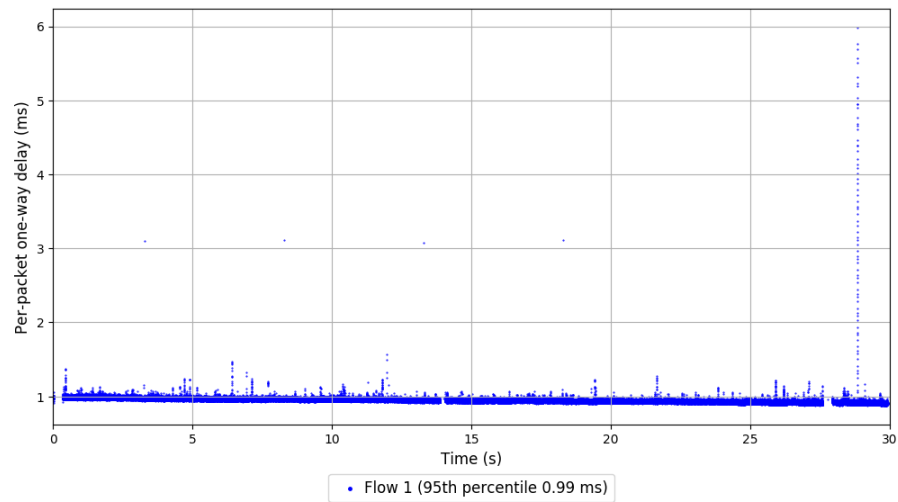
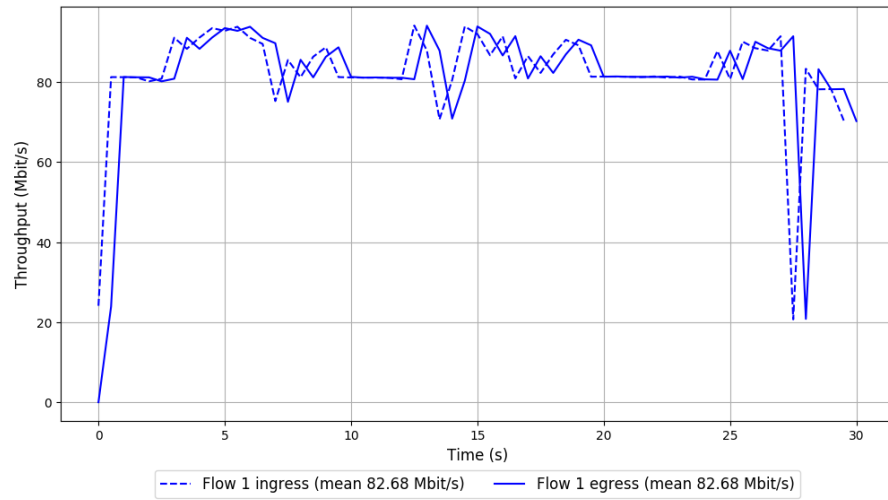
-- Flow 1:

Average throughput: 82.68 Mbit/s

95th percentile per-packet one-way delay: 0.986 ms

Loss rate: 0.01%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-02-05 14:32:58

End at: 2019-02-05 14:33:28

Local clock offset: 0.225 ms

Remote clock offset: -1.355 ms

Below is generated by plot.py at 2019-02-05 16:19:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.09 Mbit/s

95th percentile per-packet one-way delay: 1.095 ms

Loss rate: 0.01%

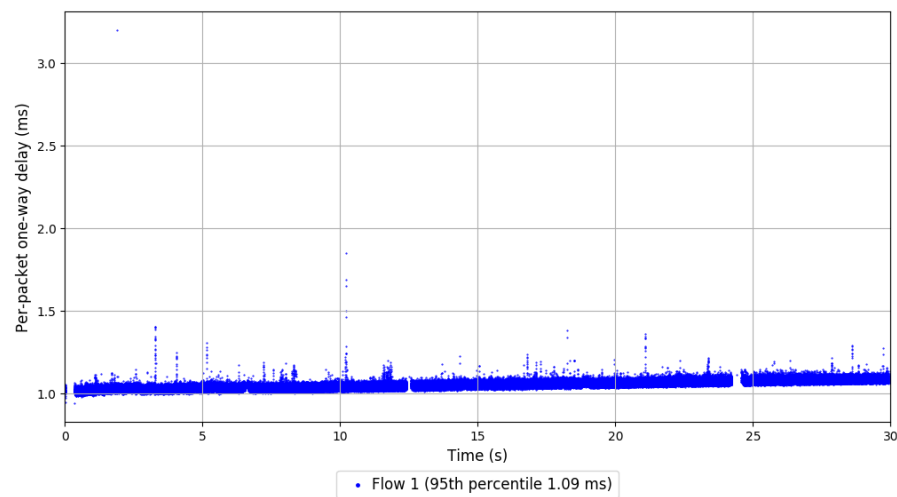
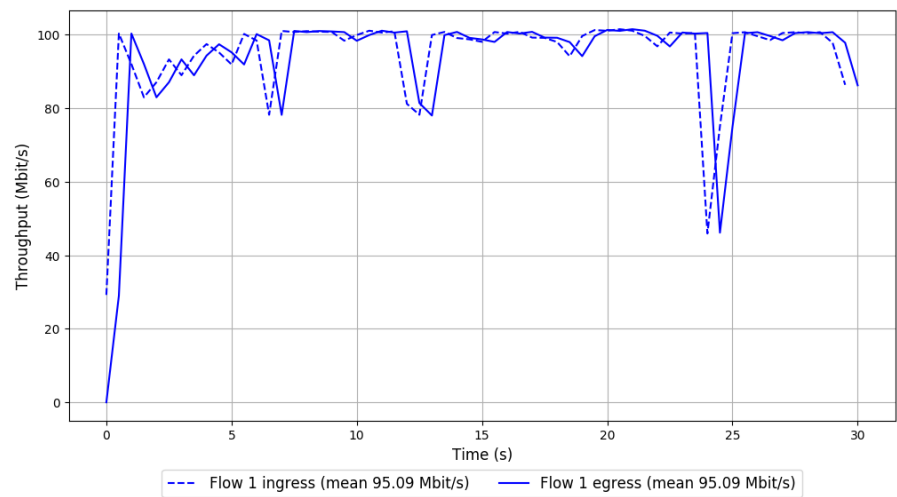
-- Flow 1:

Average throughput: 95.09 Mbit/s

95th percentile per-packet one-way delay: 1.095 ms

Loss rate: 0.01%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-02-05 15:02:50

End at: 2019-02-05 15:03:20

Local clock offset: -3.022 ms

Remote clock offset: 0.263 ms

Below is generated by plot.py at 2019-02-05 16:19:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.98 Mbit/s

95th percentile per-packet one-way delay: 1.162 ms

Loss rate: 0.01%

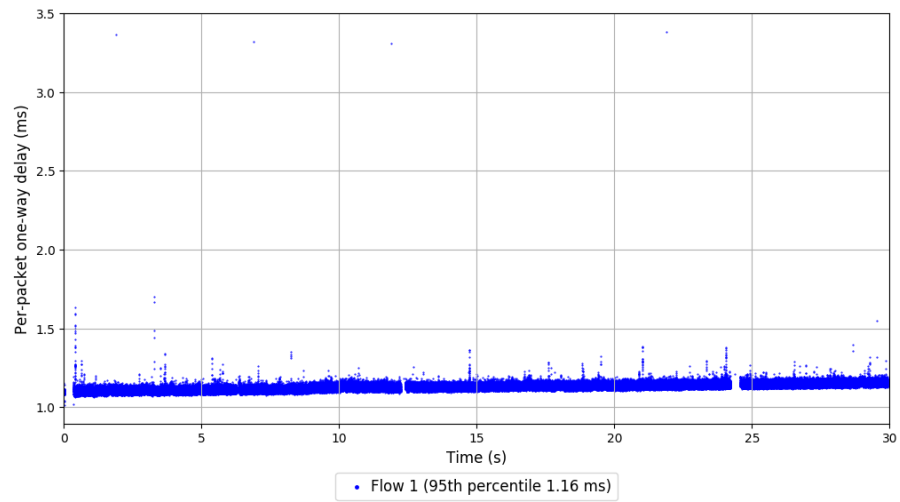
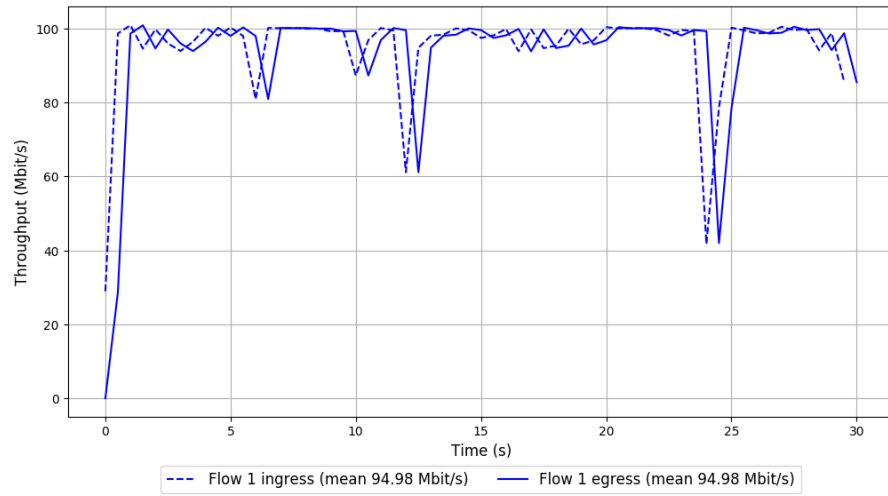
-- Flow 1:

Average throughput: 94.98 Mbit/s

95th percentile per-packet one-way delay: 1.162 ms

Loss rate: 0.01%

Run 5: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2019-02-05 13:07:29

End at: 2019-02-05 13:07:59

Local clock offset: 0.594 ms

Remote clock offset: 0.337 ms

Below is generated by plot.py at 2019-02-05 16:19:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.074 ms

Loss rate: 0.13%

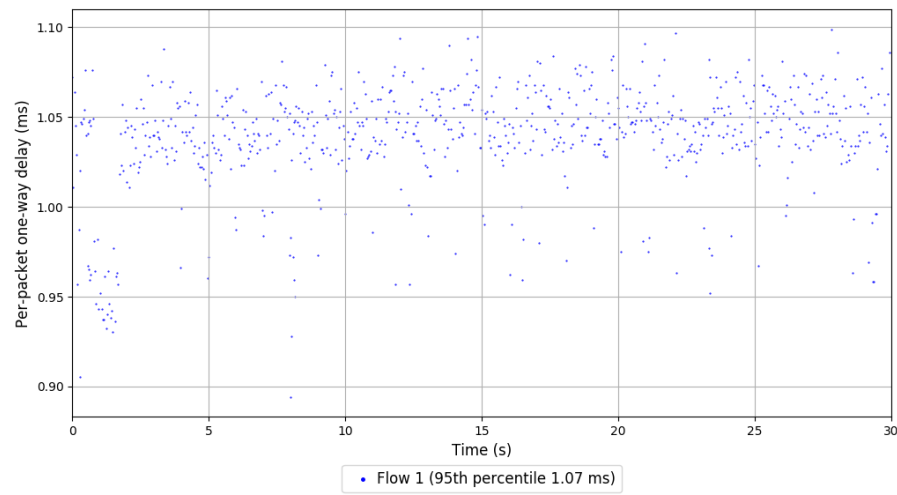
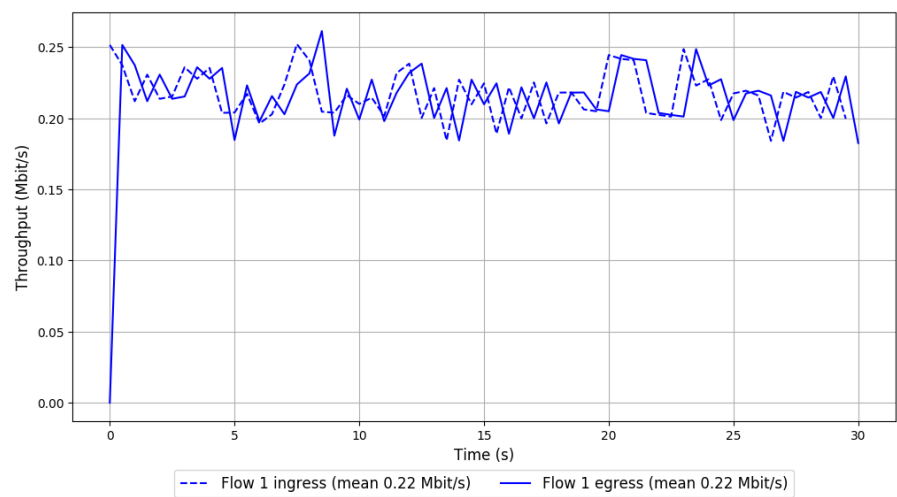
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.074 ms

Loss rate: 0.13%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-02-05 13:37:27

End at: 2019-02-05 13:37:57

Local clock offset: 0.186 ms

Remote clock offset: 1.364 ms

Below is generated by plot.py at 2019-02-05 16:19:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.178 ms

Loss rate: 0.00%

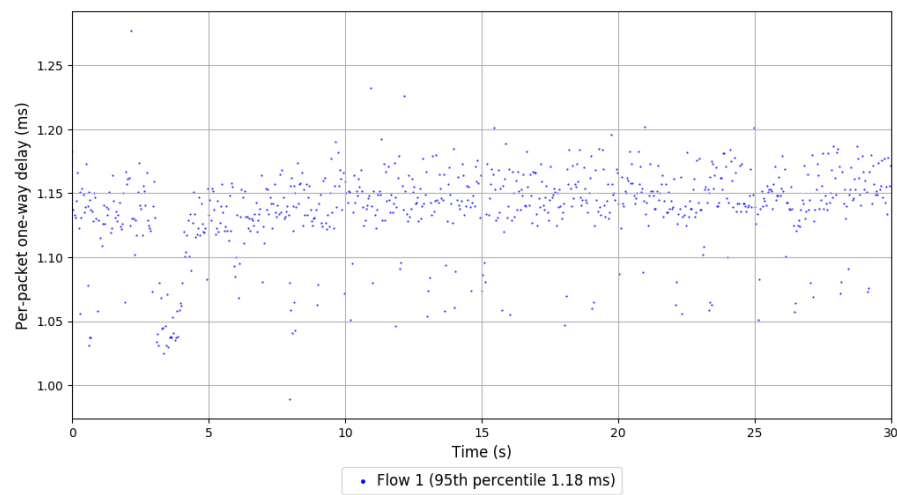
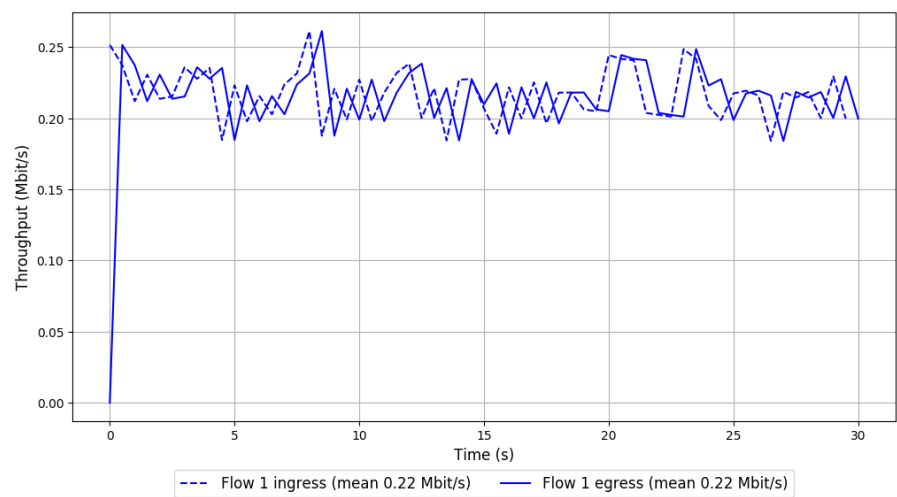
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.178 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

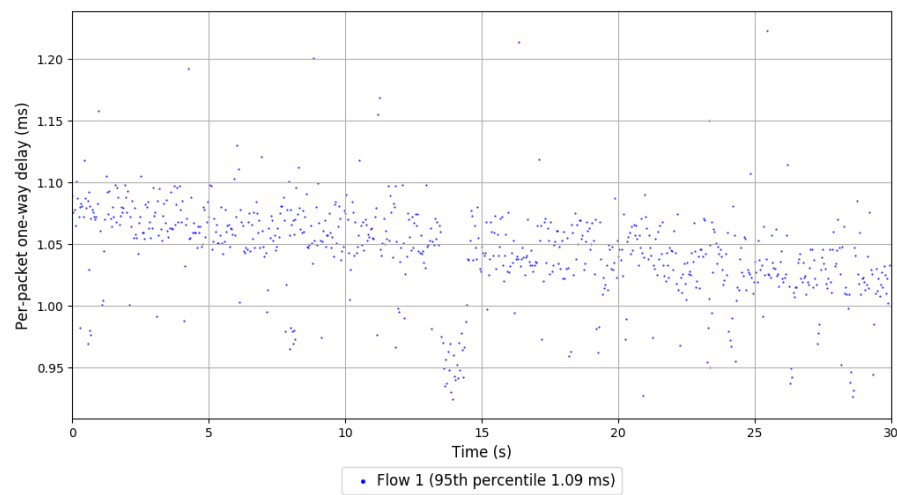
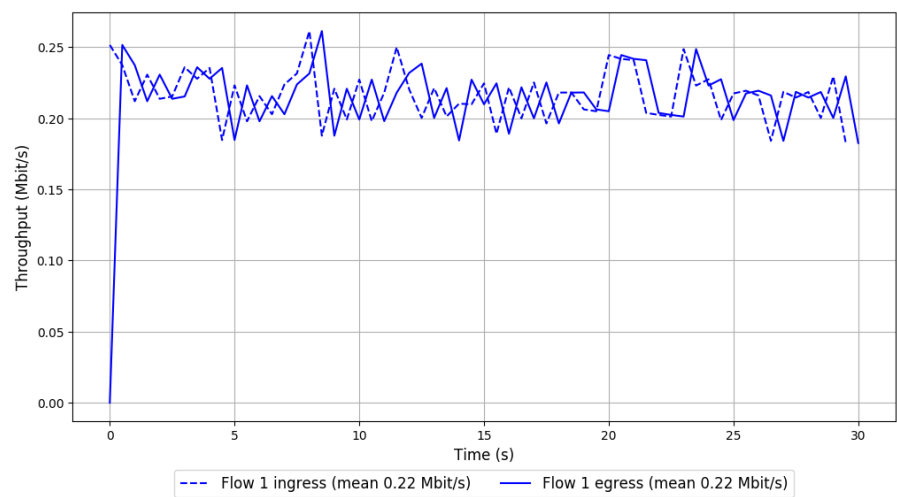


Run 3: Statistics of SCReAM

Start at: 2019-02-05 14:07:16
End at: 2019-02-05 14:07:46
Local clock offset: -0.006 ms
Remote clock offset: -3.372 ms

Below is generated by plot.py at 2019-02-05 16:19:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.093 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.093 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

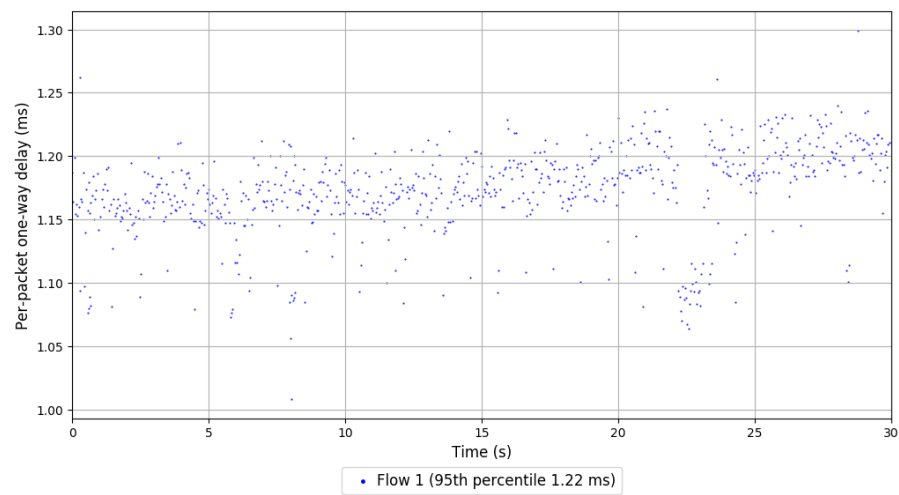
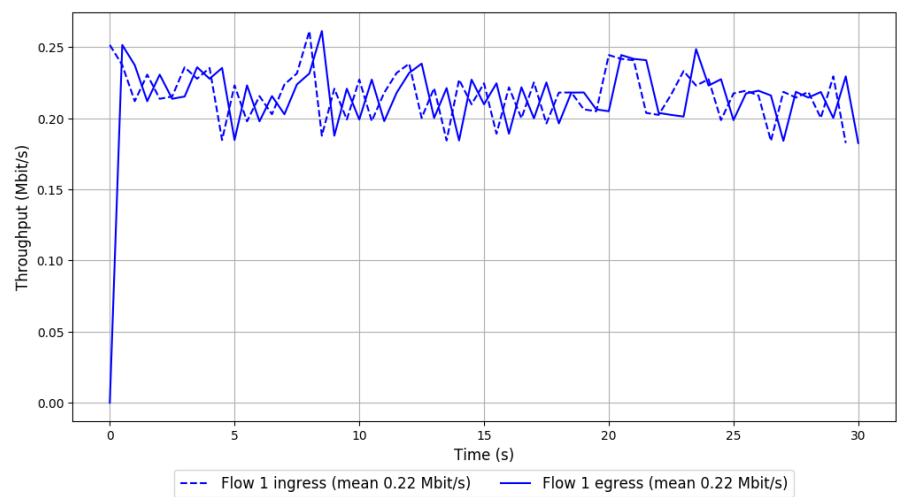


Run 4: Statistics of SCReAM

Start at: 2019-02-05 14:37:08
End at: 2019-02-05 14:37:38
Local clock offset: 0.246 ms
Remote clock offset: -0.833 ms

Below is generated by plot.py at 2019-02-05 16:19:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.220 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.220 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-02-05 15:06:59

End at: 2019-02-05 15:07:29

Local clock offset: -3.355 ms

Remote clock offset: 0.416 ms

Below is generated by plot.py at 2019-02-05 16:19:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.219 ms

Loss rate: 0.00%

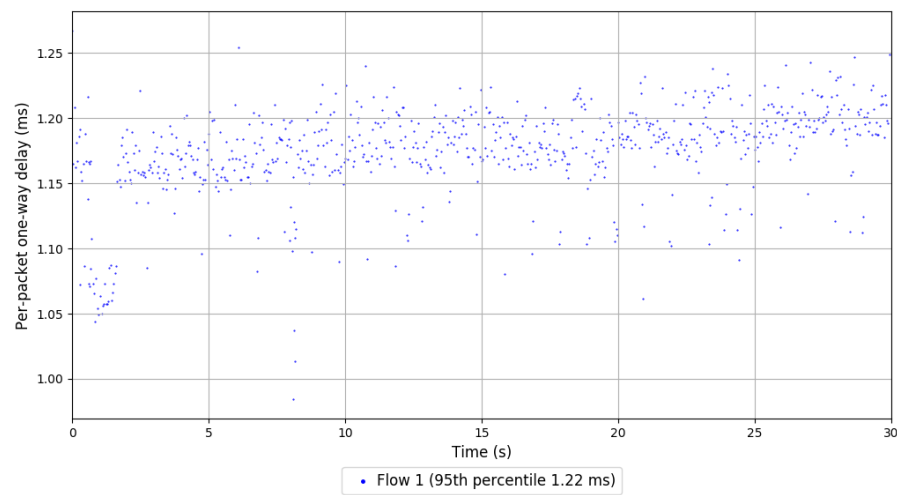
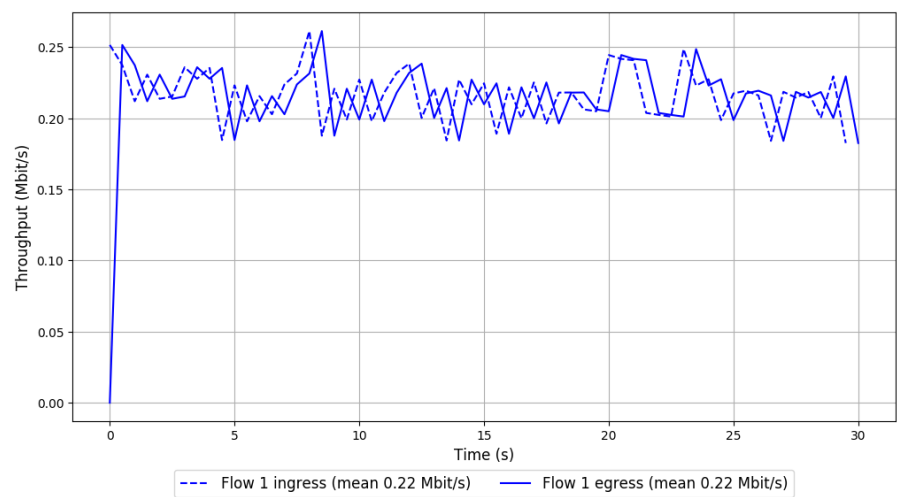
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.219 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-02-05 12:52:33

End at: 2019-02-05 12:53:03

Local clock offset: 0.402 ms

Remote clock offset: 0.225 ms

Below is generated by plot.py at 2019-02-05 16:19:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.24 Mbit/s

95th percentile per-packet one-way delay: 1.037 ms

Loss rate: 0.00%

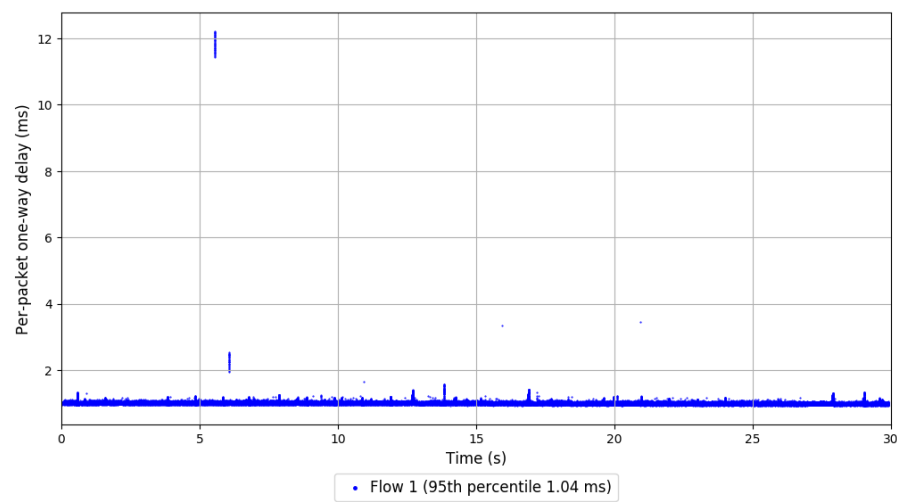
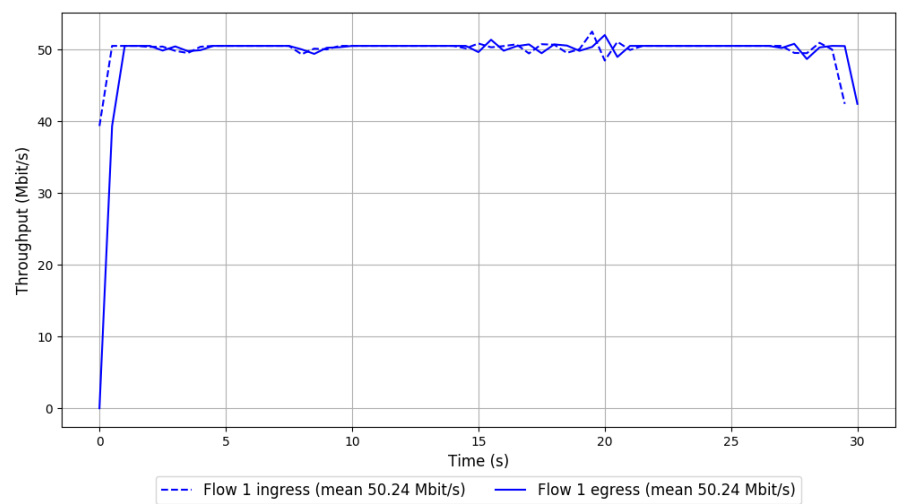
-- Flow 1:

Average throughput: 50.24 Mbit/s

95th percentile per-packet one-way delay: 1.037 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-02-05 13:22:28

End at: 2019-02-05 13:22:58

Local clock offset: 0.399 ms

Remote clock offset: 0.772 ms

Below is generated by plot.py at 2019-02-05 16:19:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.24 Mbit/s

95th percentile per-packet one-way delay: 1.130 ms

Loss rate: 0.00%

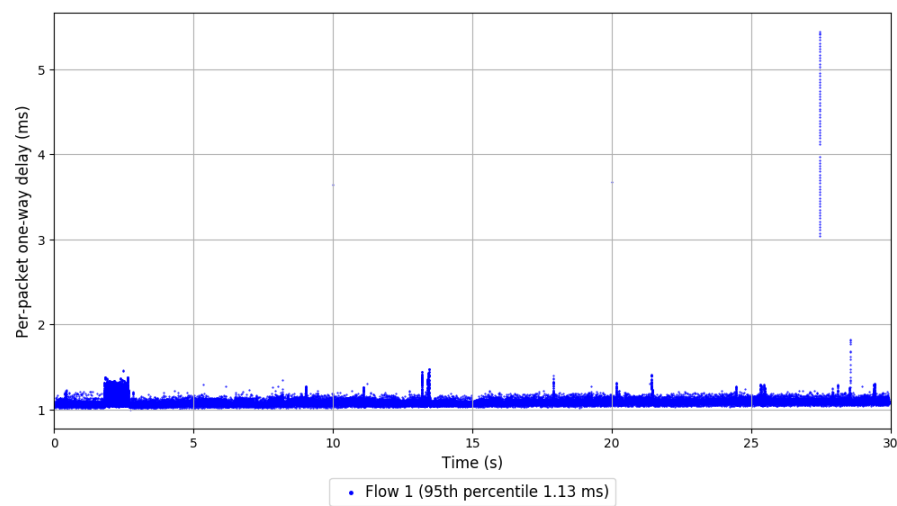
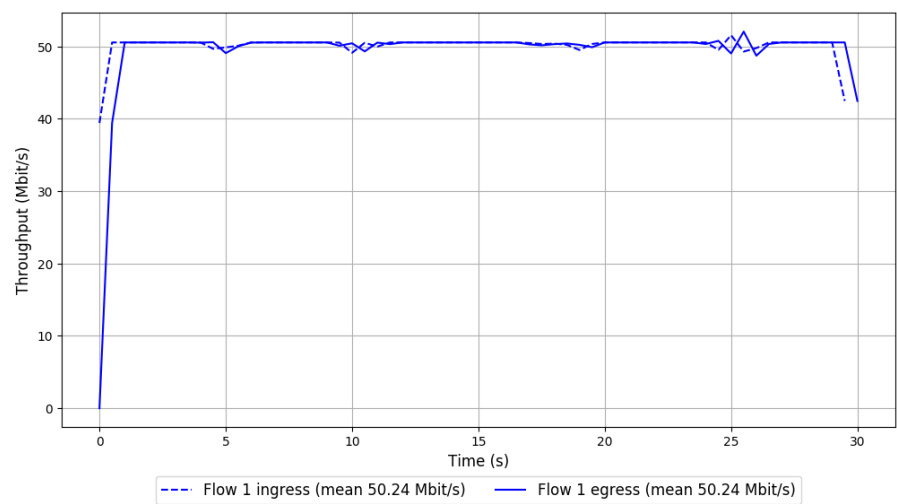
-- Flow 1:

Average throughput: 50.24 Mbit/s

95th percentile per-packet one-way delay: 1.130 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-02-05 13:52:25

End at: 2019-02-05 13:52:55

Local clock offset: 0.105 ms

Remote clock offset: 0.082 ms

Below is generated by plot.py at 2019-02-05 16:19:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.27 Mbit/s

95th percentile per-packet one-way delay: 0.852 ms

Loss rate: 0.00%

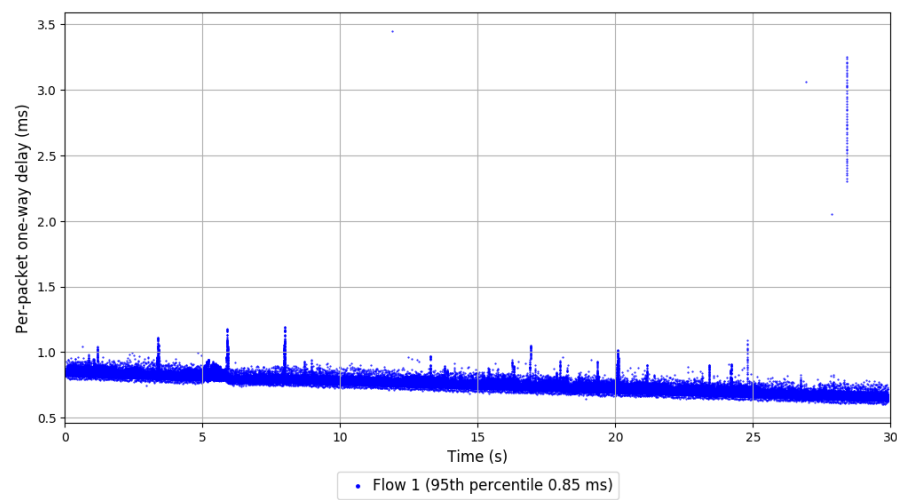
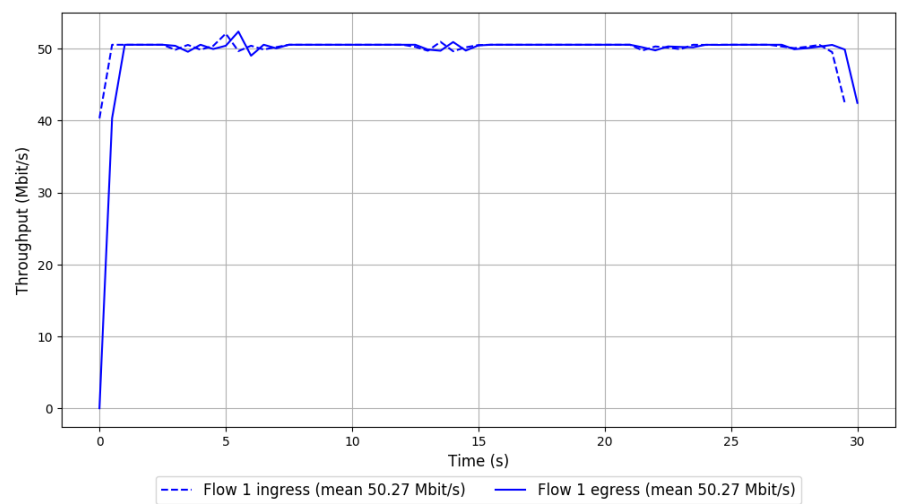
-- Flow 1:

Average throughput: 50.27 Mbit/s

95th percentile per-packet one-way delay: 0.852 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

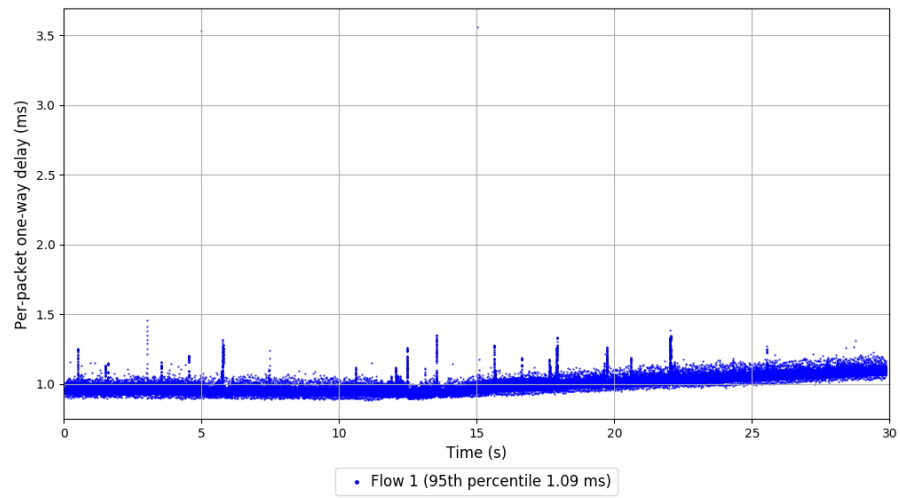
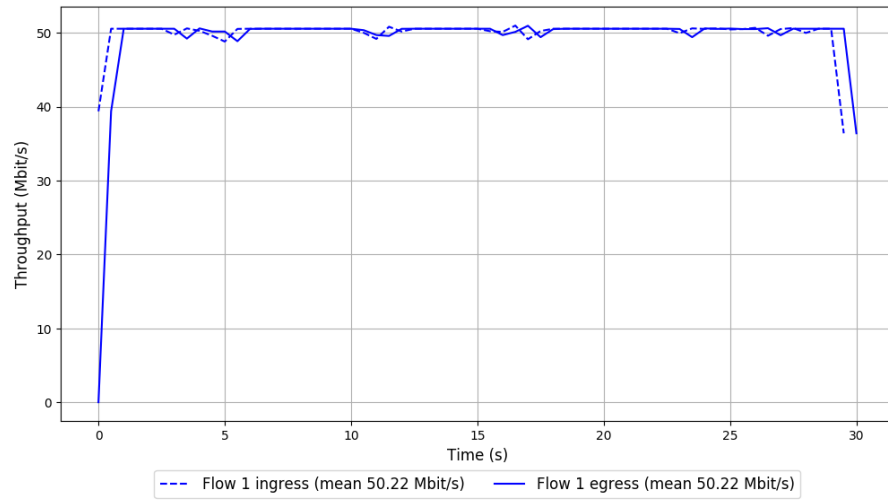


Run 4: Statistics of Sprout

Start at: 2019-02-05 14:22:18
End at: 2019-02-05 14:22:48
Local clock offset: 0.12 ms
Remote clock offset: -4.556 ms

Below is generated by plot.py at 2019-02-05 16:19:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.22 Mbit/s
95th percentile per-packet one-way delay: 1.089 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.22 Mbit/s
95th percentile per-packet one-way delay: 1.089 ms
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

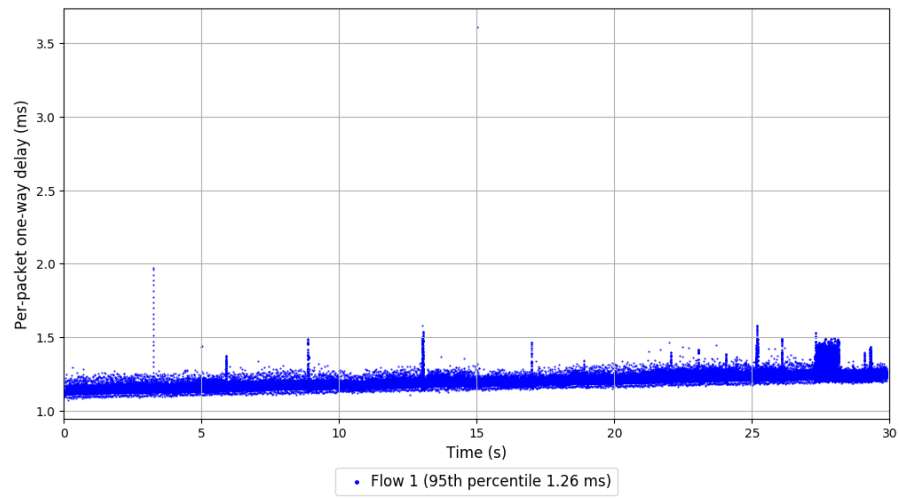
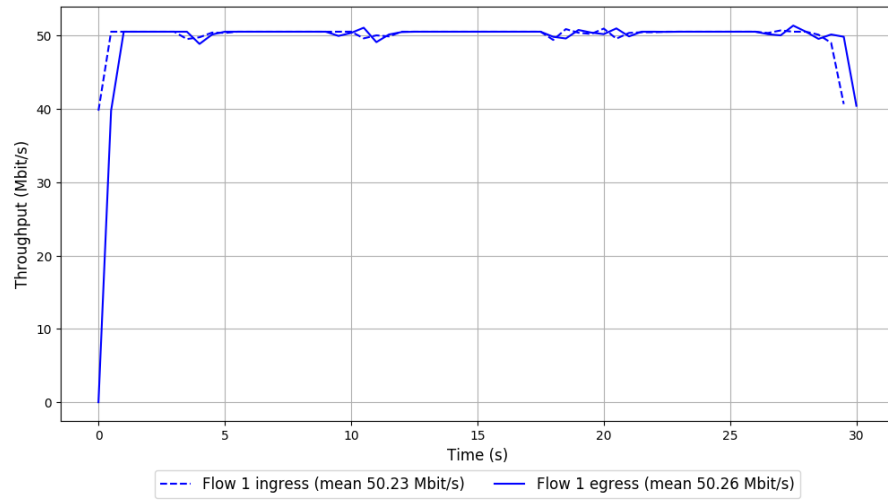


Run 5: Statistics of Sprout

Start at: 2019-02-05 14:52:02
End at: 2019-02-05 14:52:32
Local clock offset: -1.496 ms
Remote clock offset: -0.014 ms

Below is generated by plot.py at 2019-02-05 16:19:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.26 Mbit/s
95th percentile per-packet one-way delay: 1.262 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 50.26 Mbit/s
95th percentile per-packet one-way delay: 1.262 ms
Loss rate: 0.01%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-02-05 12:57:47

End at: 2019-02-05 12:58:17

Local clock offset: 0.489 ms

Remote clock offset: 0.102 ms

Below is generated by plot.py at 2019-02-05 16:20:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.35 Mbit/s

95th percentile per-packet one-way delay: 1.047 ms

Loss rate: 0.01%

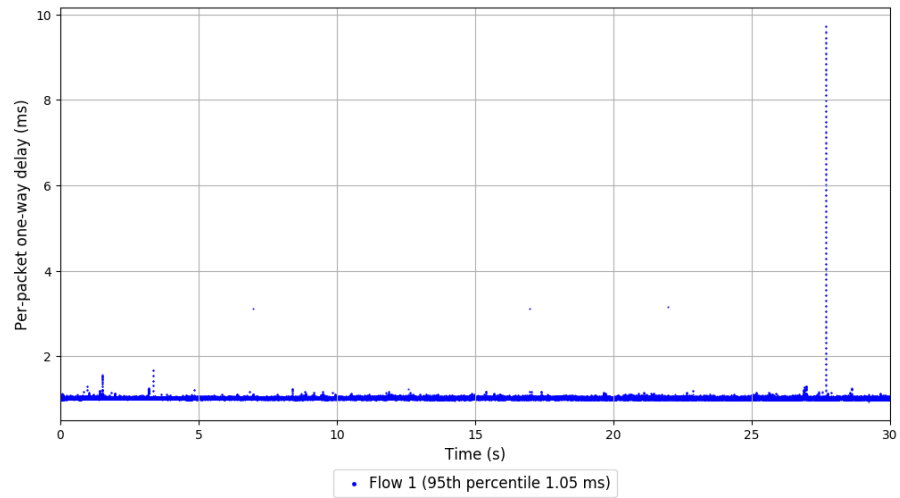
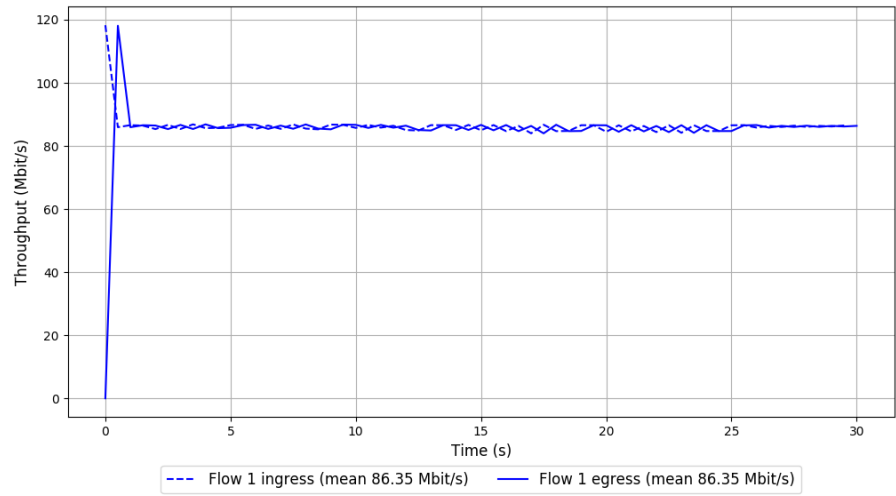
-- Flow 1:

Average throughput: 86.35 Mbit/s

95th percentile per-packet one-way delay: 1.047 ms

Loss rate: 0.01%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-02-05 13:27:41

End at: 2019-02-05 13:28:11

Local clock offset: 0.286 ms

Remote clock offset: 0.985 ms

Below is generated by plot.py at 2019-02-05 16:20:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.82 Mbit/s

95th percentile per-packet one-way delay: 1.064 ms

Loss rate: 0.01%

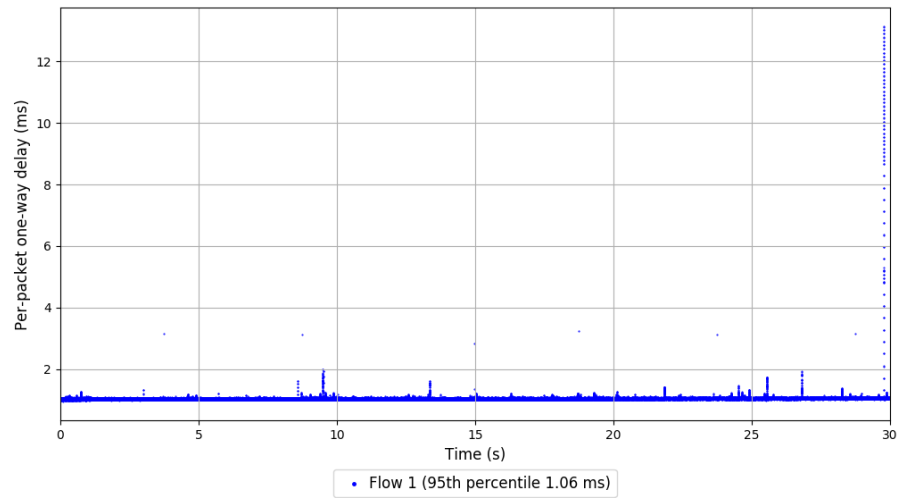
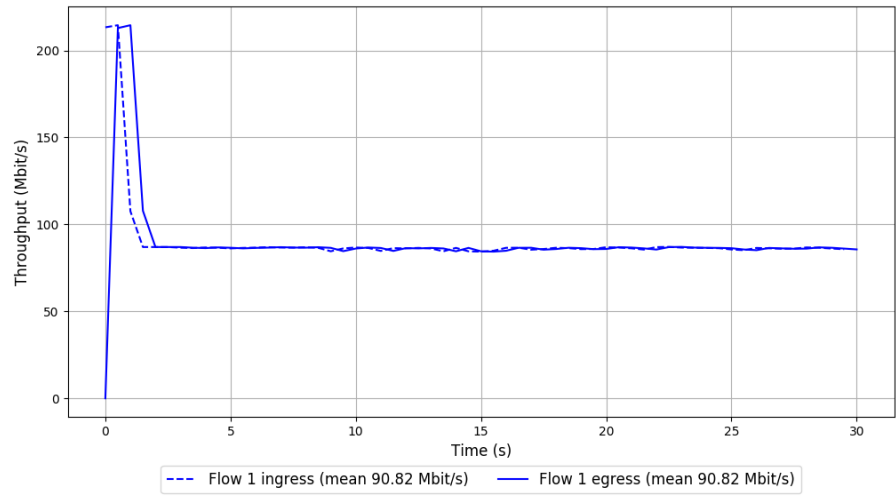
-- Flow 1:

Average throughput: 90.82 Mbit/s

95th percentile per-packet one-way delay: 1.064 ms

Loss rate: 0.01%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-02-05 13:57:35

End at: 2019-02-05 13:58:05

Local clock offset: 0.06 ms

Remote clock offset: -1.584 ms

Below is generated by plot.py at 2019-02-05 16:20:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.28 Mbit/s

95th percentile per-packet one-way delay: 0.829 ms

Loss rate: 0.01%

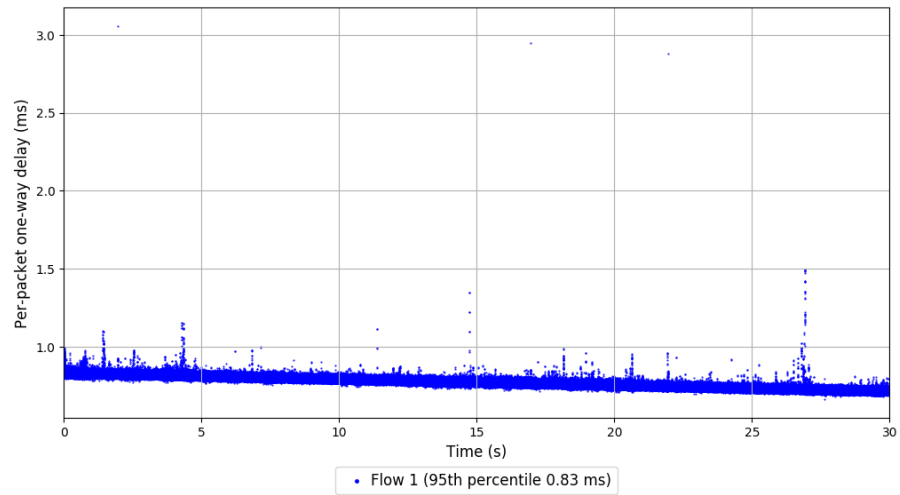
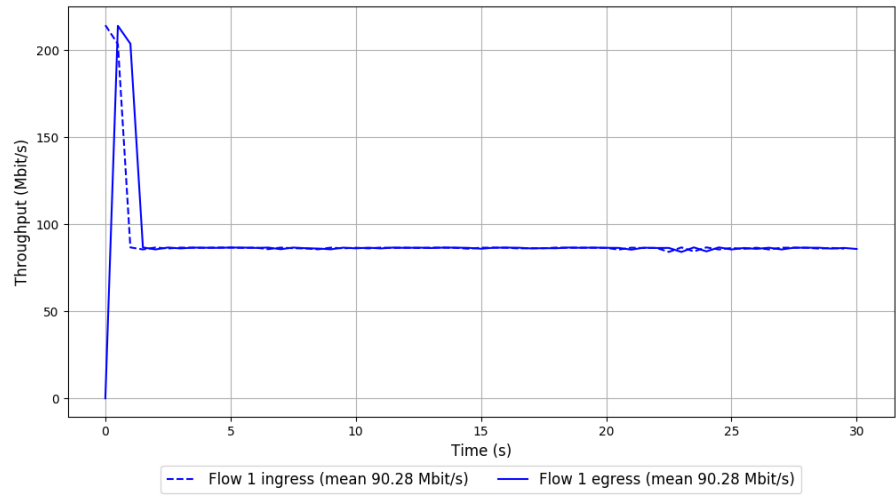
-- Flow 1:

Average throughput: 90.28 Mbit/s

95th percentile per-packet one-way delay: 0.829 ms

Loss rate: 0.01%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-02-05 14:27:32

End at: 2019-02-05 14:28:02

Local clock offset: 0.16 ms

Remote clock offset: -2.65 ms

Below is generated by plot.py at 2019-02-05 16:20:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.36 Mbit/s

95th percentile per-packet one-way delay: 1.250 ms

Loss rate: 0.00%

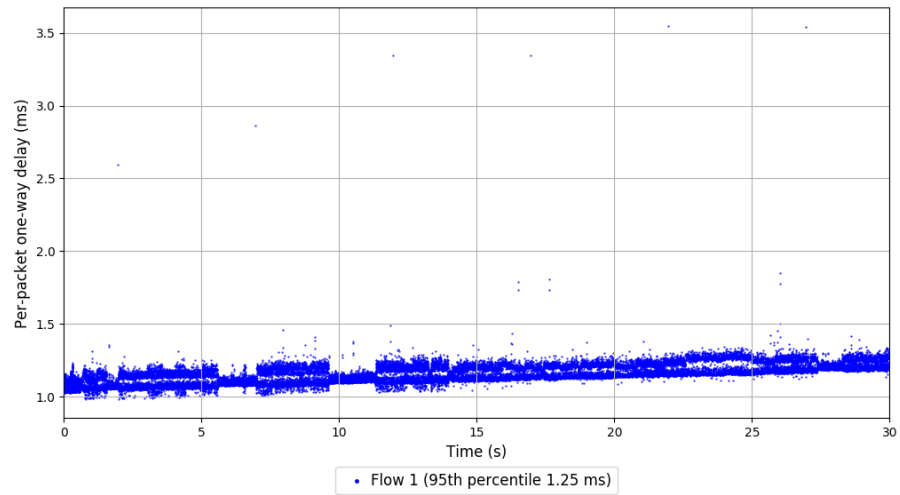
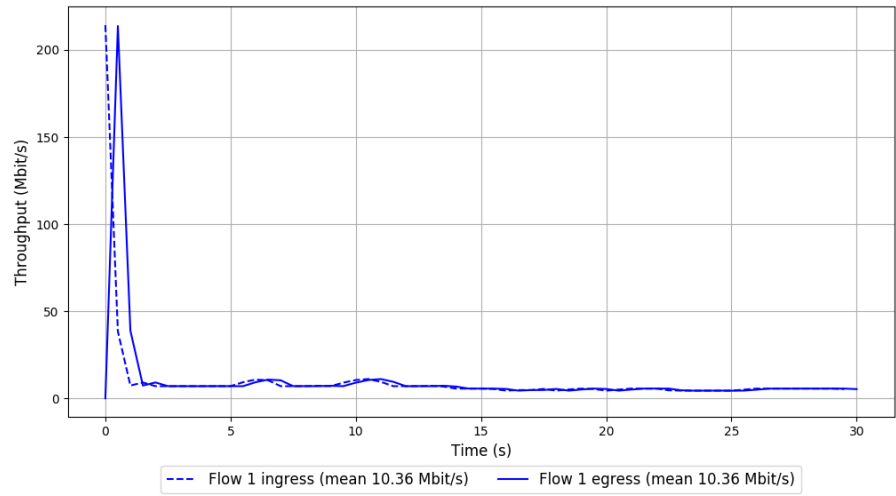
-- Flow 1:

Average throughput: 10.36 Mbit/s

95th percentile per-packet one-way delay: 1.250 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-02-05 14:57:18

End at: 2019-02-05 14:57:48

Local clock offset: -2.392 ms

Remote clock offset: 0.155 ms

Below is generated by plot.py at 2019-02-05 16:20:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.32 Mbit/s

95th percentile per-packet one-way delay: 1.110 ms

Loss rate: 0.01%

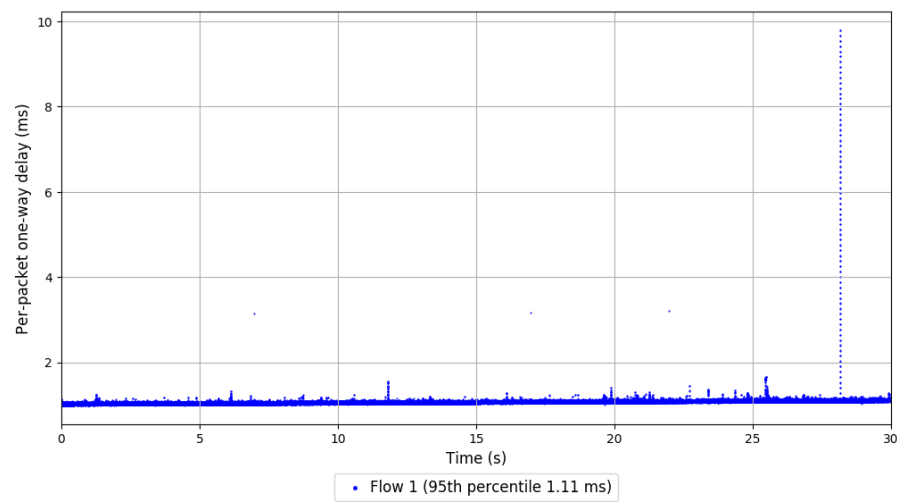
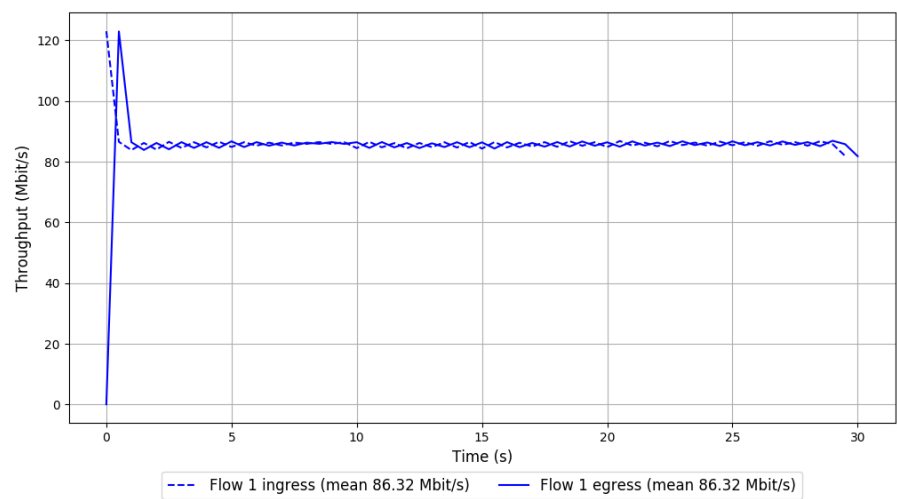
-- Flow 1:

Average throughput: 86.32 Mbit/s

95th percentile per-packet one-way delay: 1.110 ms

Loss rate: 0.01%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-02-05 13:00:21

End at: 2019-02-05 13:00:51

Local clock offset: 0.529 ms

Remote clock offset: 0.147 ms

Below is generated by plot.py at 2019-02-05 16:22:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 255.17 Mbit/s

95th percentile per-packet one-way delay: 3.397 ms

Loss rate: 0.00%

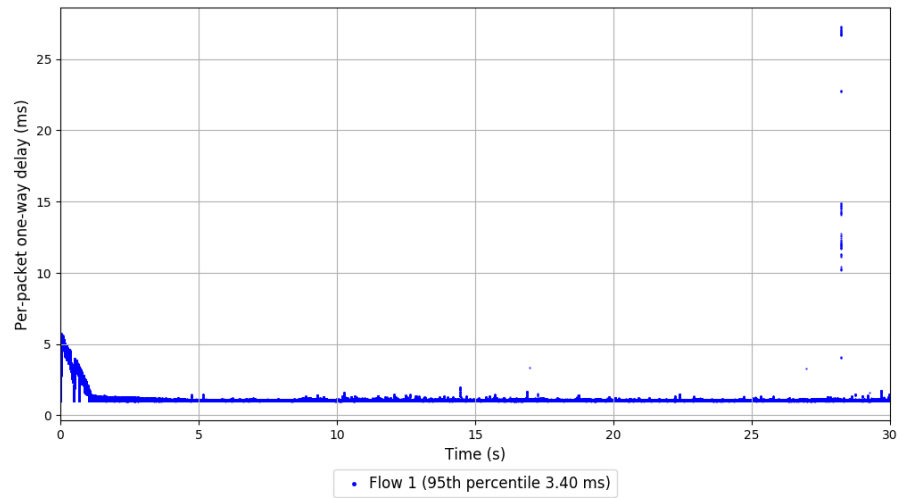
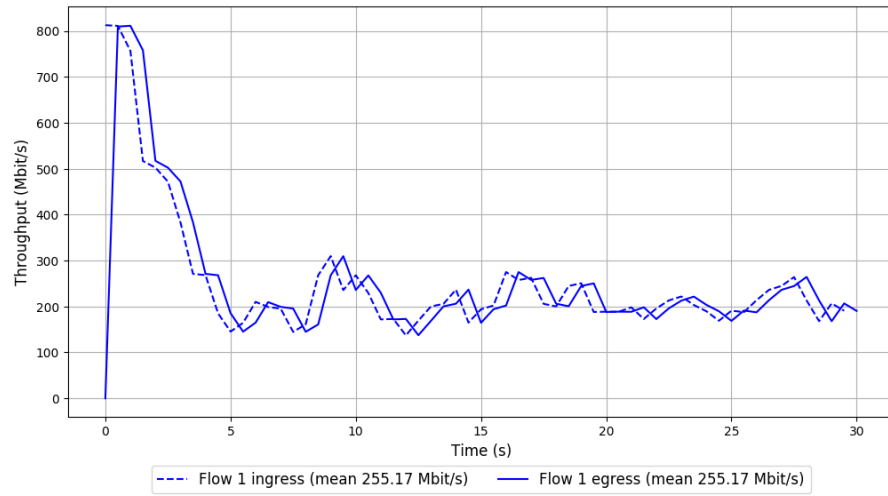
-- Flow 1:

Average throughput: 255.17 Mbit/s

95th percentile per-packet one-way delay: 3.397 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-02-05 13:30:16

End at: 2019-02-05 13:30:46

Local clock offset: 0.257 ms

Remote clock offset: 1.165 ms

Below is generated by plot.py at 2019-02-05 16:22:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 238.98 Mbit/s

95th percentile per-packet one-way delay: 1.058 ms

Loss rate: 0.01%

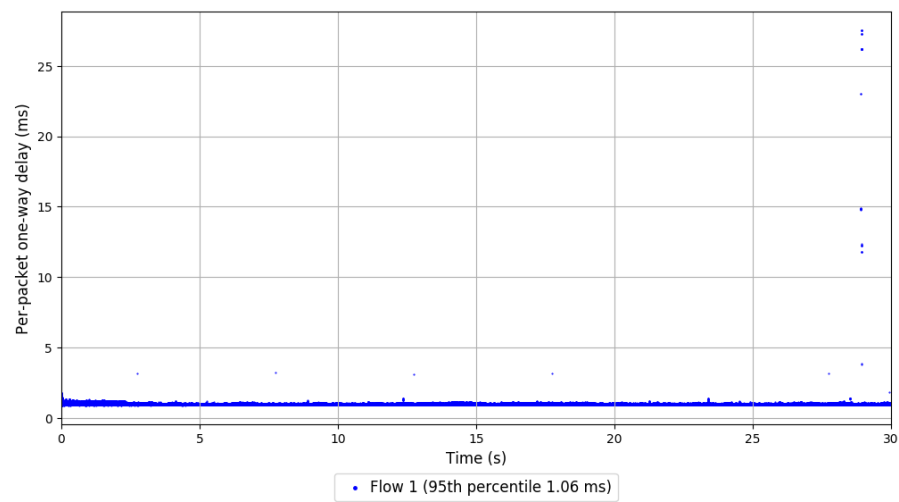
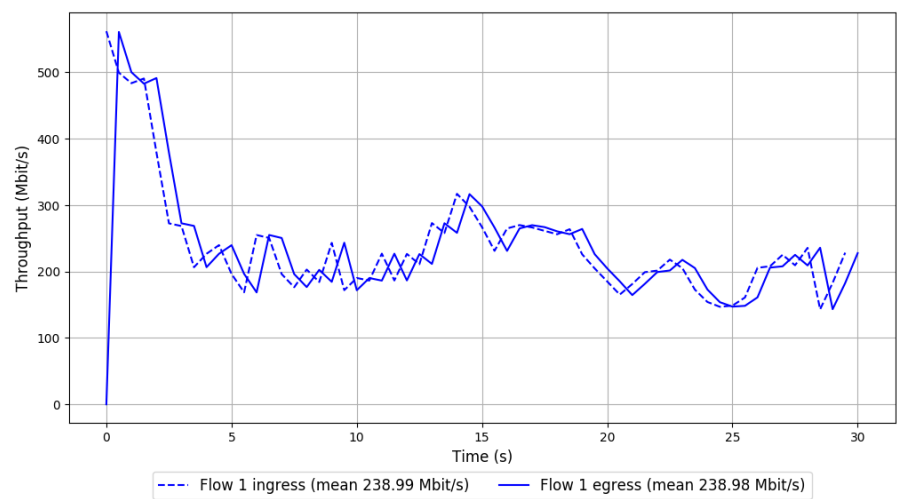
-- Flow 1:

Average throughput: 238.98 Mbit/s

95th percentile per-packet one-way delay: 1.058 ms

Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link

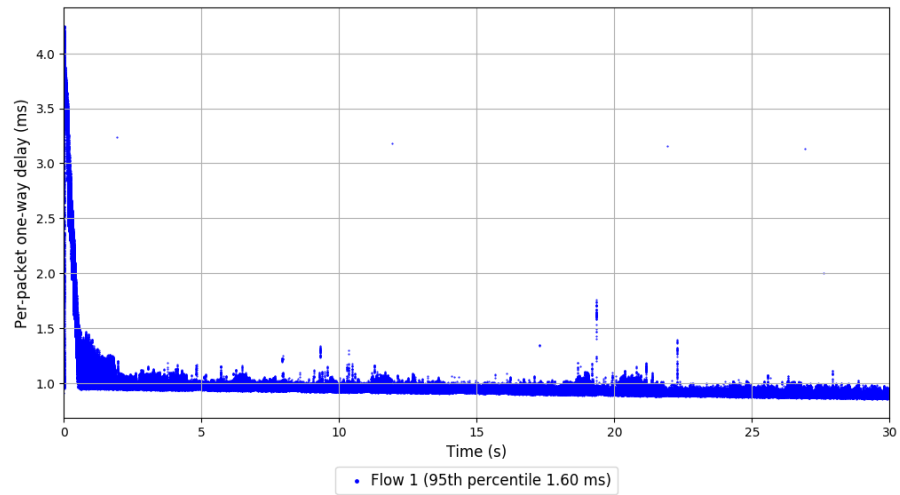
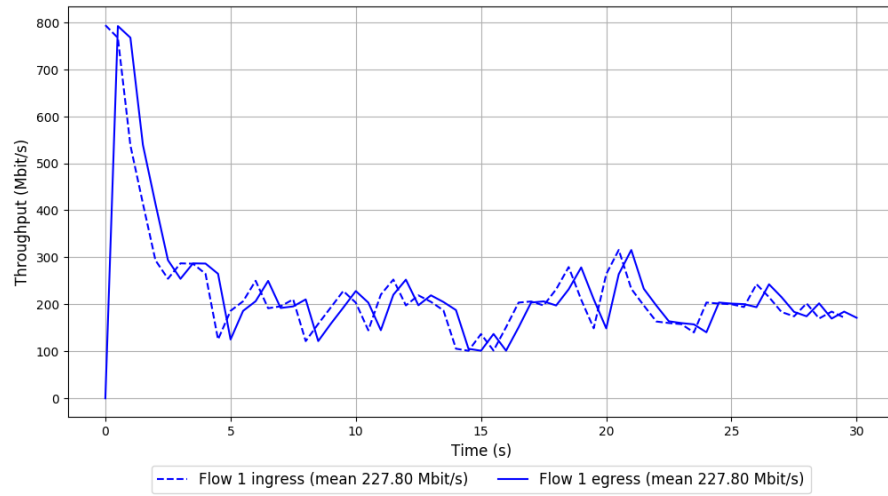


Run 3: Statistics of TCP Vegas

Start at: 2019-02-05 14:00:10
End at: 2019-02-05 14:00:40
Local clock offset: 0.031 ms
Remote clock offset: -2.303 ms

Below is generated by plot.py at 2019-02-05 16:22:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 227.80 Mbit/s
95th percentile per-packet one-way delay: 1.599 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 227.80 Mbit/s
95th percentile per-packet one-way delay: 1.599 ms
Loss rate: 0.01%

Run 3: Report of TCP Vegas — Data Link

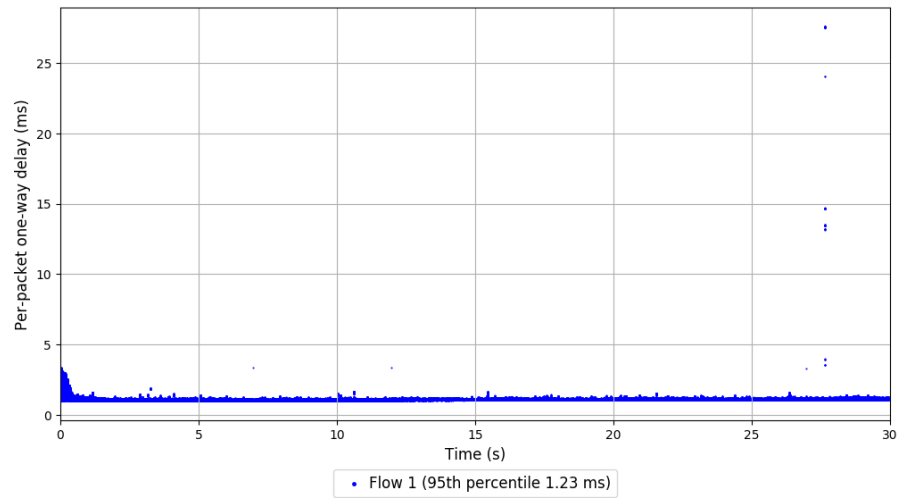
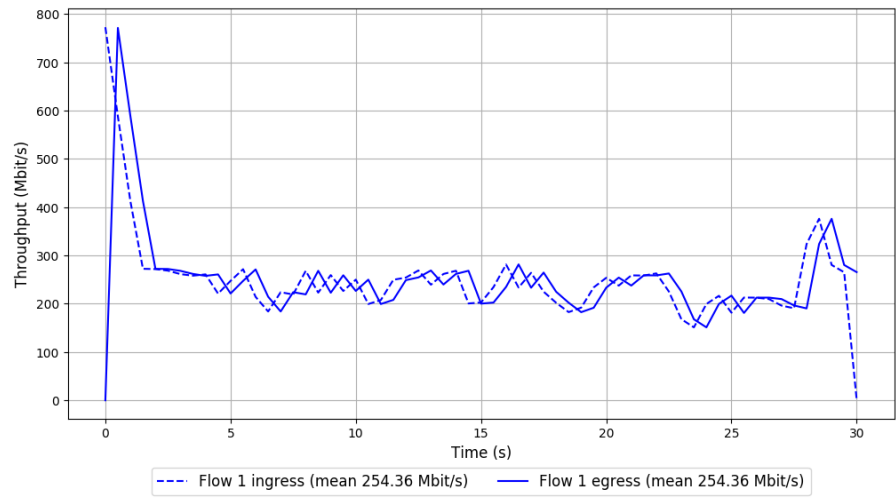


Run 4: Statistics of TCP Vegas

Start at: 2019-02-05 14:30:02
End at: 2019-02-05 14:30:32
Local clock offset: 0.202 ms
Remote clock offset: -1.939 ms

Below is generated by plot.py at 2019-02-05 16:22:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 254.36 Mbit/s
95th percentile per-packet one-way delay: 1.228 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 254.36 Mbit/s
95th percentile per-packet one-way delay: 1.228 ms
Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-02-05 14:59:52

End at: 2019-02-05 15:00:22

Local clock offset: -2.718 ms

Remote clock offset: 0.145 ms

Below is generated by plot.py at 2019-02-05 16:23:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 231.43 Mbit/s

95th percentile per-packet one-way delay: 1.261 ms

Loss rate: 0.00%

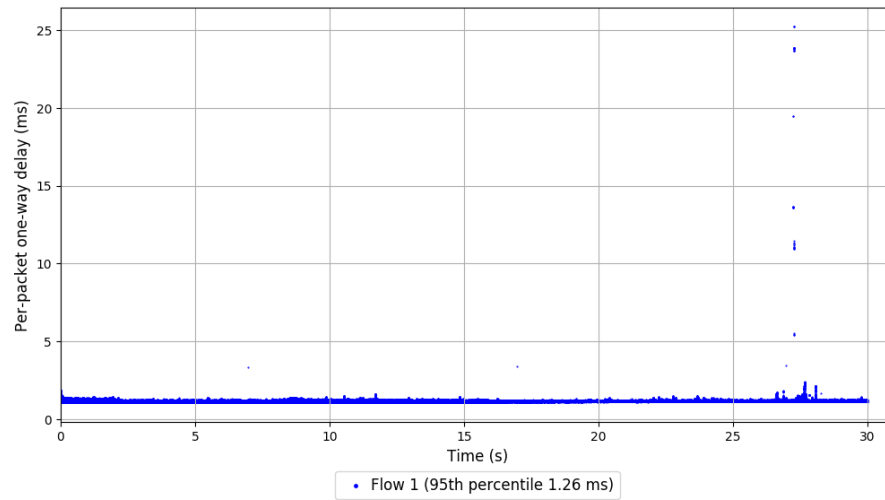
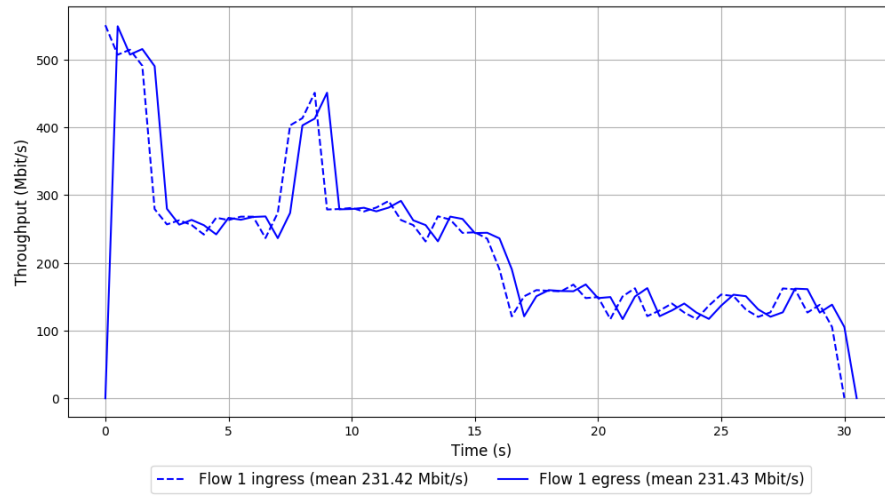
-- Flow 1:

Average throughput: 231.43 Mbit/s

95th percentile per-packet one-way delay: 1.261 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-02-05 12:53:47

End at: 2019-02-05 12:54:17

Local clock offset: 0.423 ms

Remote clock offset: 0.258 ms

Below is generated by plot.py at 2019-02-05 16:24:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 298.72 Mbit/s

95th percentile per-packet one-way delay: 2.528 ms

Loss rate: 0.02%

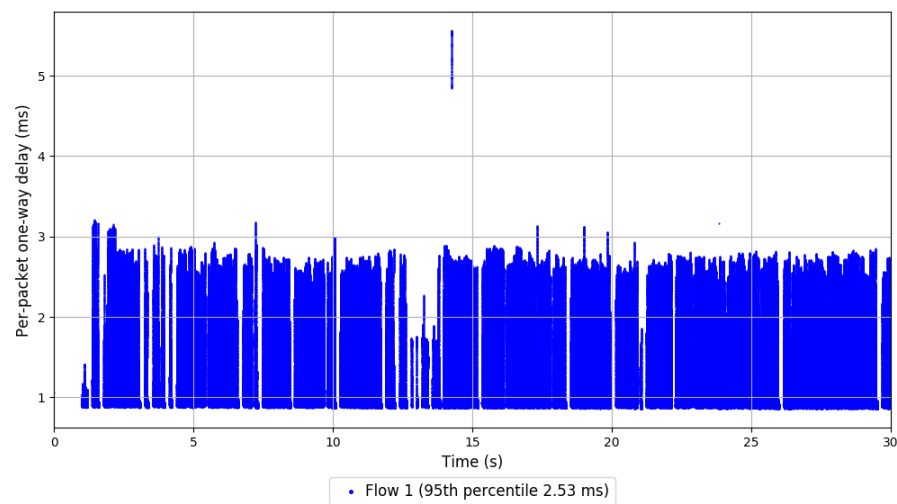
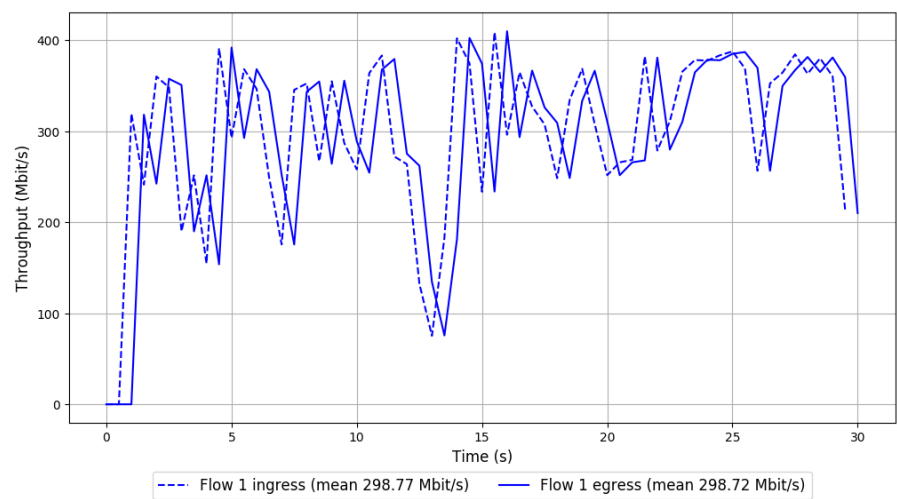
-- Flow 1:

Average throughput: 298.72 Mbit/s

95th percentile per-packet one-way delay: 2.528 ms

Loss rate: 0.02%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-02-05 13:23:42

End at: 2019-02-05 13:24:12

Local clock offset: 0.371 ms

Remote clock offset: 0.894 ms

Below is generated by plot.py at 2019-02-05 16:24:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 280.46 Mbit/s

95th percentile per-packet one-way delay: 2.559 ms

Loss rate: 0.00%

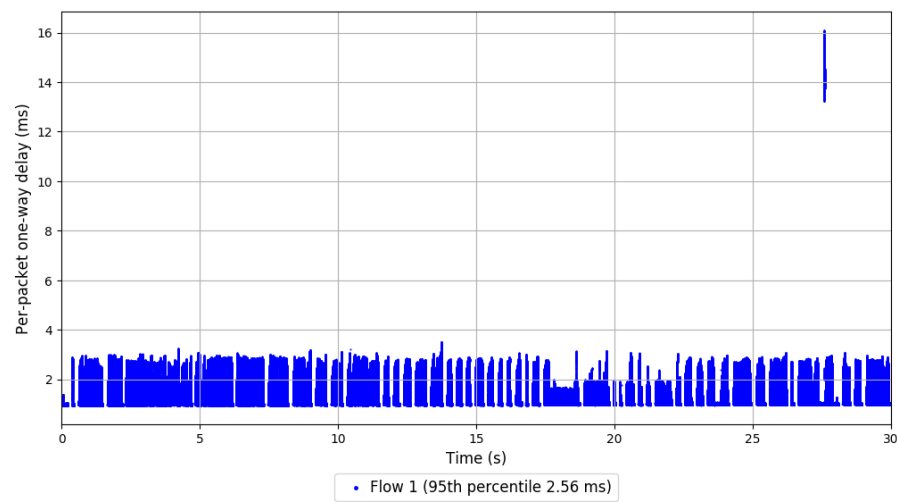
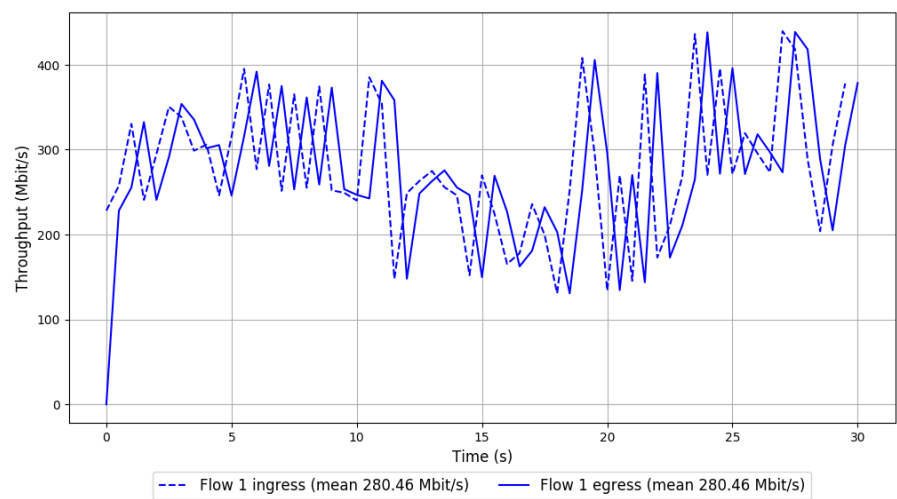
-- Flow 1:

Average throughput: 280.46 Mbit/s

95th percentile per-packet one-way delay: 2.559 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link

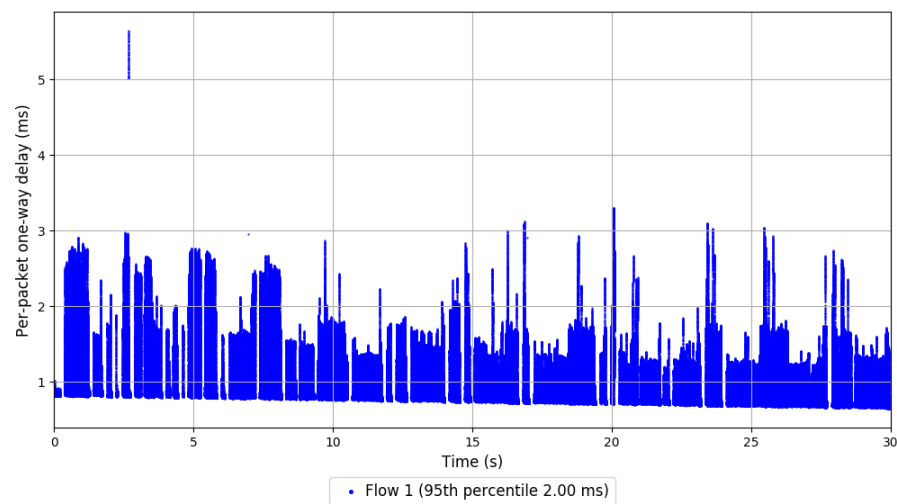
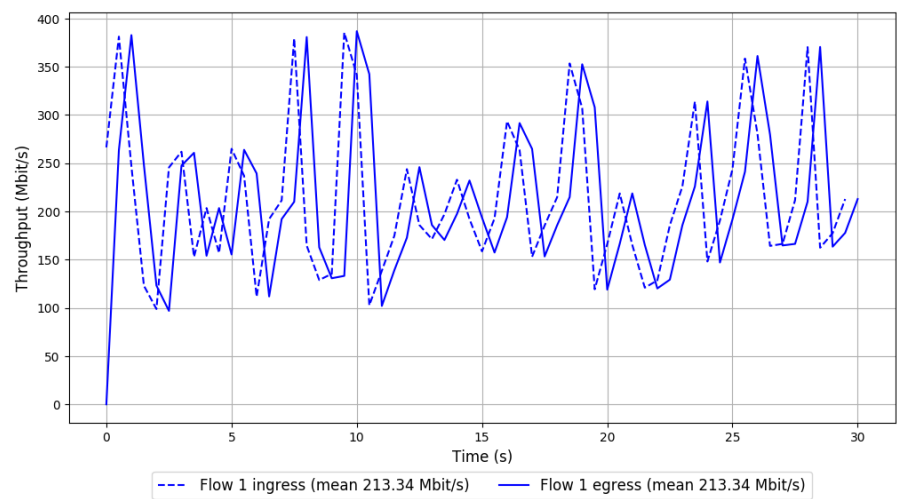


Run 3: Statistics of Verus

Start at: 2019-02-05 13:53:39
End at: 2019-02-05 13:54:09
Local clock offset: 0.076 ms
Remote clock offset: -0.427 ms

Below is generated by plot.py at 2019-02-05 16:24:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 213.34 Mbit/s
95th percentile per-packet one-way delay: 2.000 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 213.34 Mbit/s
95th percentile per-packet one-way delay: 2.000 ms
Loss rate: 0.00%

Run 3: Report of Verus — Data Link

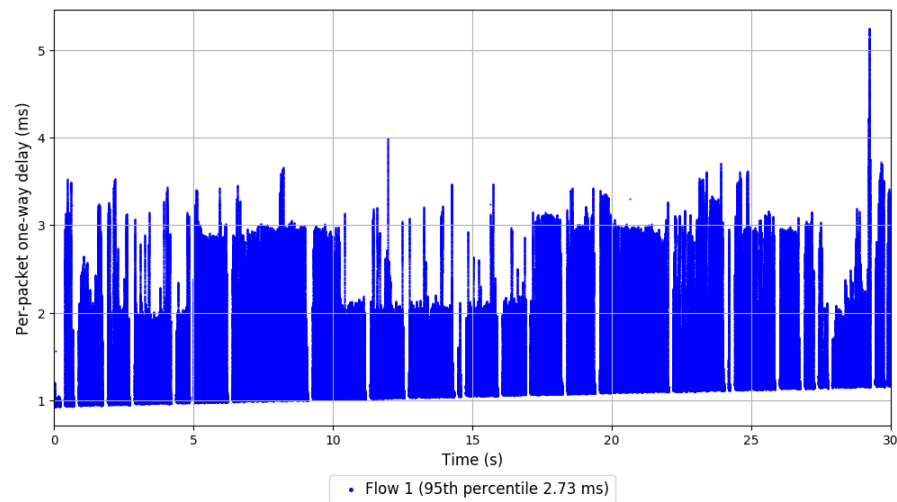
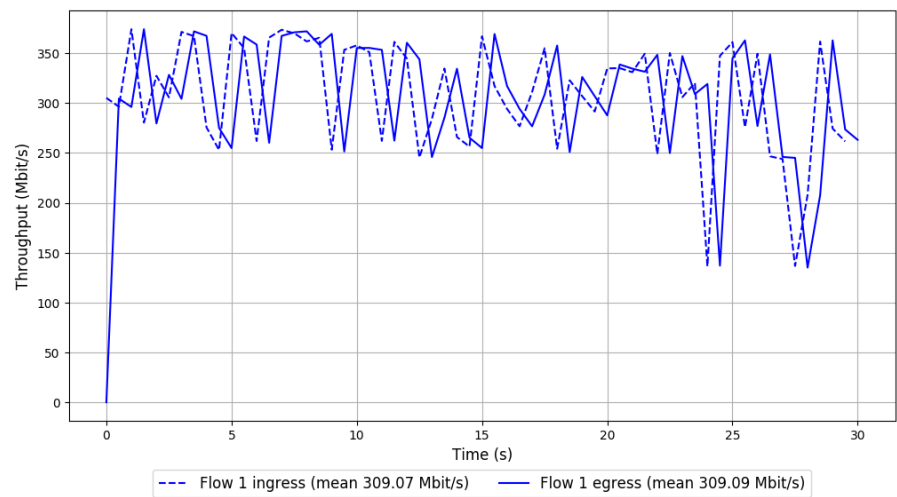


Run 4: Statistics of Verus

Start at: 2019-02-05 14:23:32
End at: 2019-02-05 14:24:02
Local clock offset: 0.139 ms
Remote clock offset: -4.077 ms

Below is generated by plot.py at 2019-02-05 16:25:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 309.09 Mbit/s
95th percentile per-packet one-way delay: 2.728 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 309.09 Mbit/s
95th percentile per-packet one-way delay: 2.728 ms
Loss rate: 0.00%

Run 4: Report of Verus — Data Link

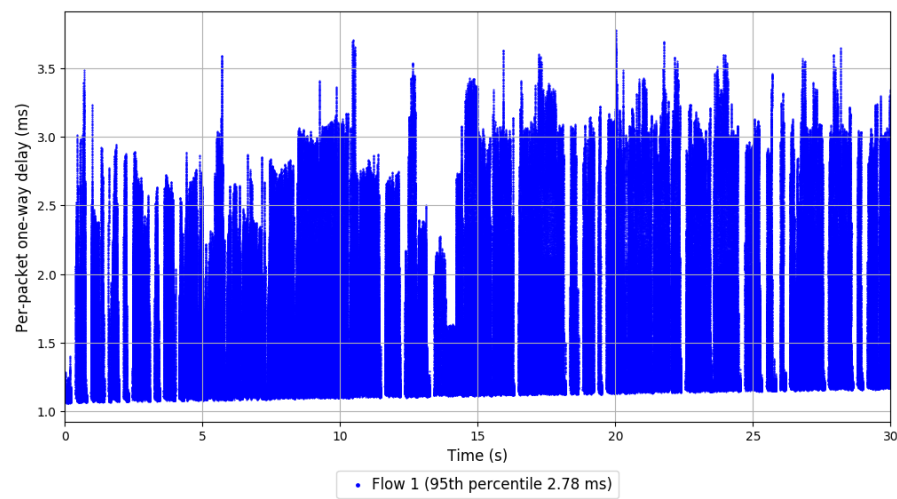
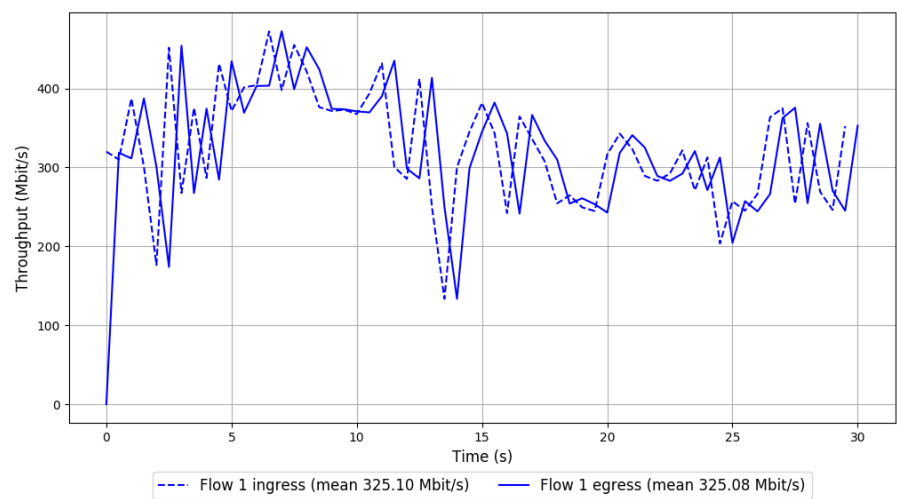


Run 5: Statistics of Verus

Start at: 2019-02-05 14:53:17
End at: 2019-02-05 14:53:47
Local clock offset: -1.764 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2019-02-05 16:25:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 325.08 Mbit/s
95th percentile per-packet one-way delay: 2.780 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 325.08 Mbit/s
95th percentile per-packet one-way delay: 2.780 ms
Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-02-05 13:11:37

End at: 2019-02-05 13:12:07

Local clock offset: 0.599 ms

Remote clock offset: 0.354 ms

Below is generated by plot.py at 2019-02-05 16:25:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 364.60 Mbit/s

95th percentile per-packet one-way delay: 1.030 ms

Loss rate: 0.01%

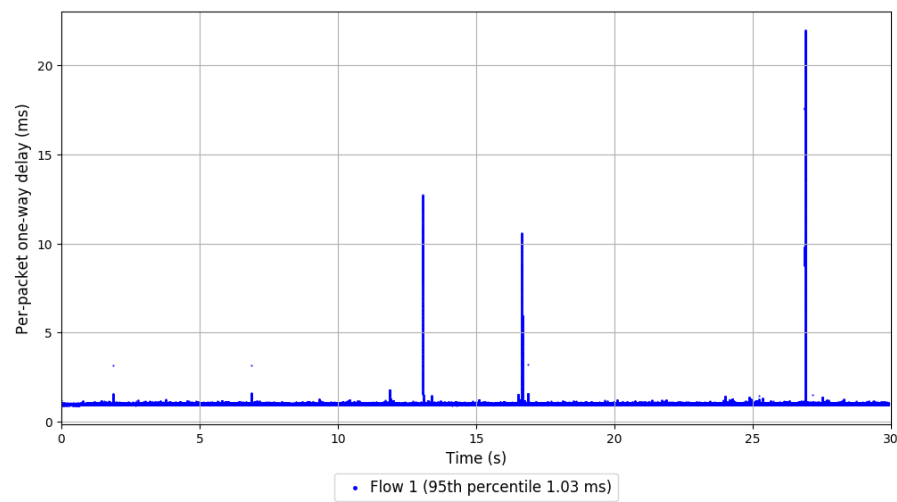
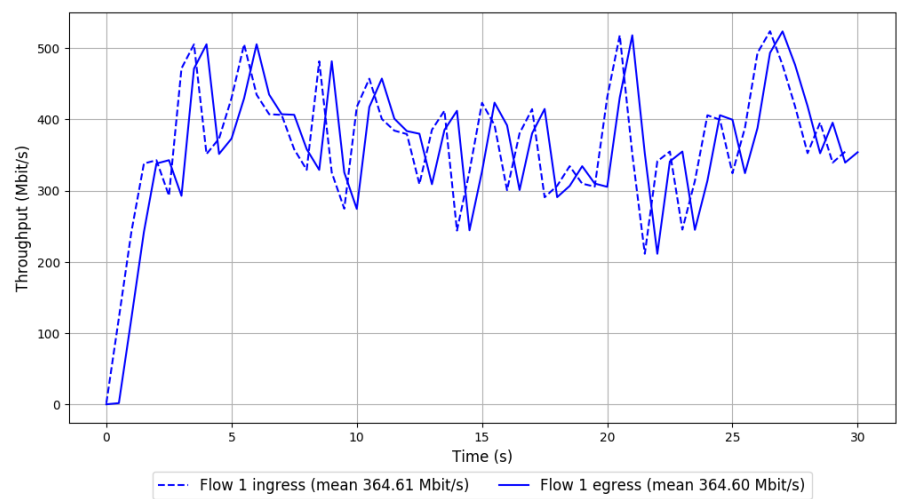
-- Flow 1:

Average throughput: 364.60 Mbit/s

95th percentile per-packet one-way delay: 1.030 ms

Loss rate: 0.01%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-02-05 13:41:33

End at: 2019-02-05 13:42:03

Local clock offset: 0.179 ms

Remote clock offset: 1.561 ms

Below is generated by plot.py at 2019-02-05 16:25:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 353.04 Mbit/s

95th percentile per-packet one-way delay: 1.044 ms

Loss rate: 0.01%

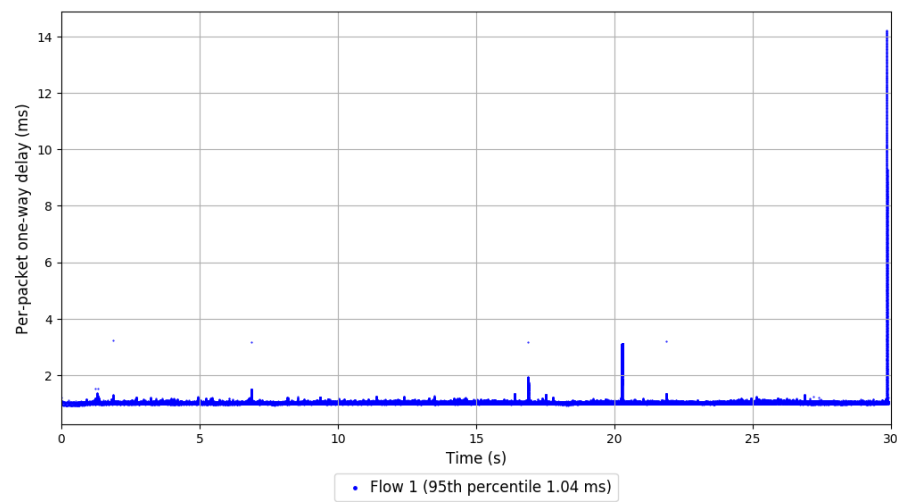
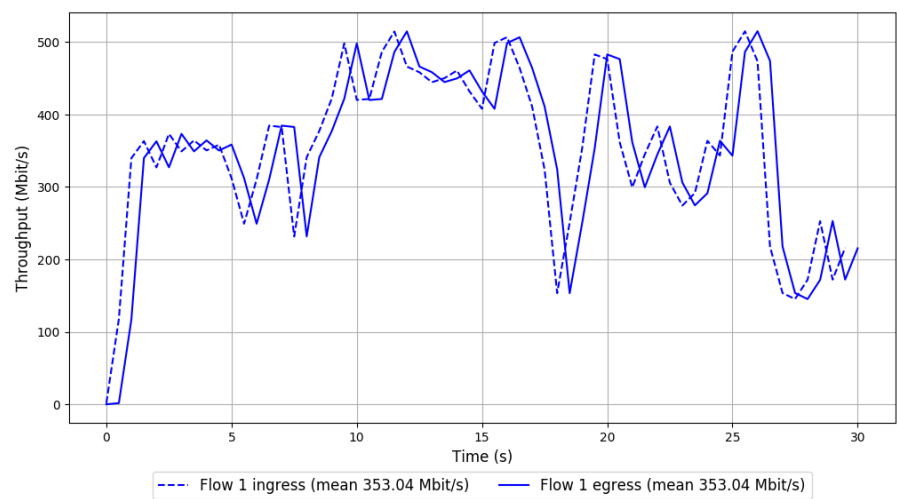
-- Flow 1:

Average throughput: 353.04 Mbit/s

95th percentile per-packet one-way delay: 1.044 ms

Loss rate: 0.01%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-02-05 14:11:24

End at: 2019-02-05 14:11:54

Local clock offset: -0.016 ms

Remote clock offset: -3.73 ms

Below is generated by plot.py at 2019-02-05 16:26:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 378.83 Mbit/s

95th percentile per-packet one-way delay: 0.938 ms

Loss rate: 0.01%

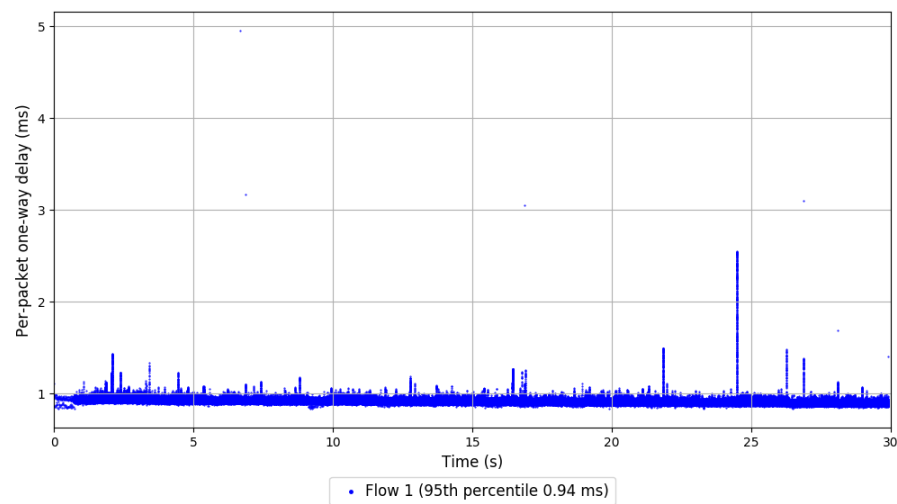
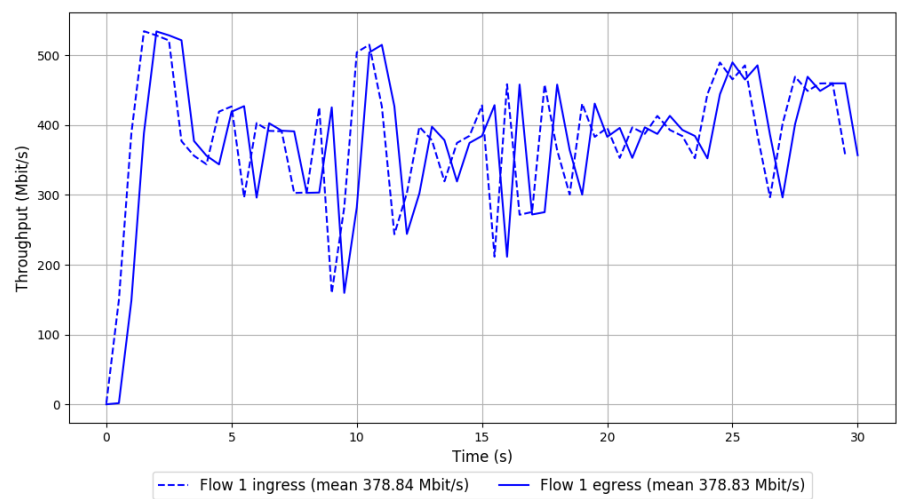
-- Flow 1:

Average throughput: 378.83 Mbit/s

95th percentile per-packet one-way delay: 0.938 ms

Loss rate: 0.01%

Run 3: Report of PCC-Vivace — Data Link

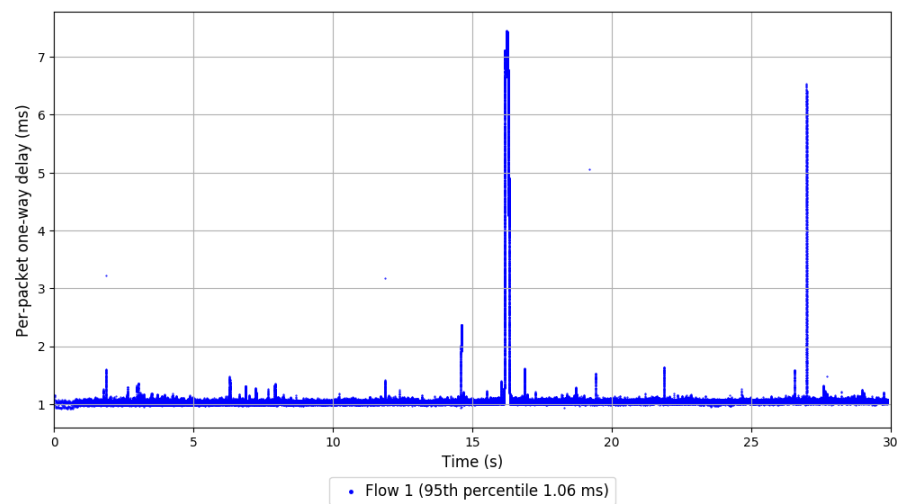
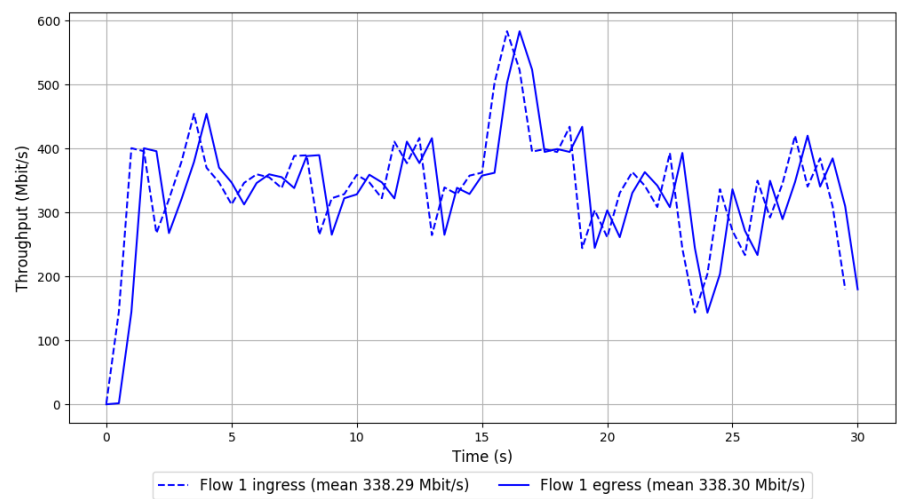


Run 4: Statistics of PCC-Vivace

Start at: 2019-02-05 14:41:12
End at: 2019-02-05 14:41:42
Local clock offset: 0.227 ms
Remote clock offset: -0.486 ms

Below is generated by plot.py at 2019-02-05 16:26:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 338.30 Mbit/s
95th percentile per-packet one-way delay: 1.059 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 338.30 Mbit/s
95th percentile per-packet one-way delay: 1.059 ms
Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-02-05 15:10:53

End at: 2019-02-05 15:11:23

Local clock offset: -3.622 ms

Remote clock offset: 0.556 ms

Below is generated by plot.py at 2019-02-05 16:26:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 369.34 Mbit/s

95th percentile per-packet one-way delay: 1.058 ms

Loss rate: 0.01%

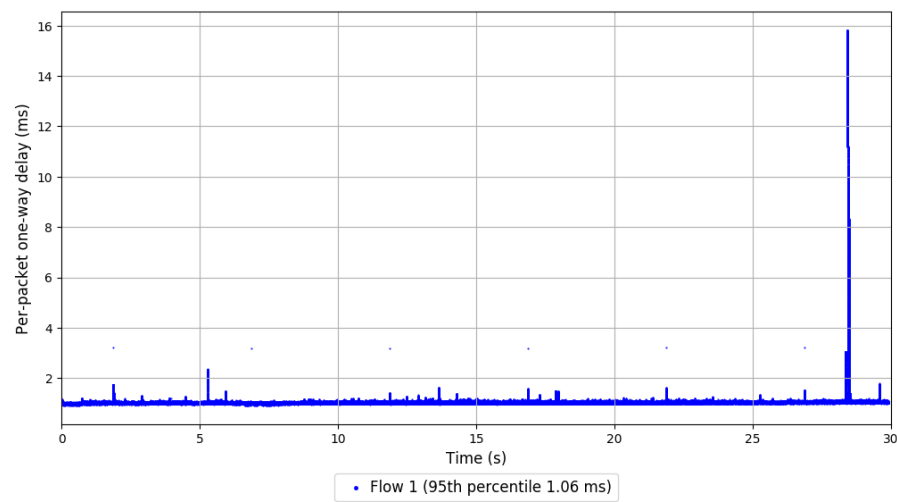
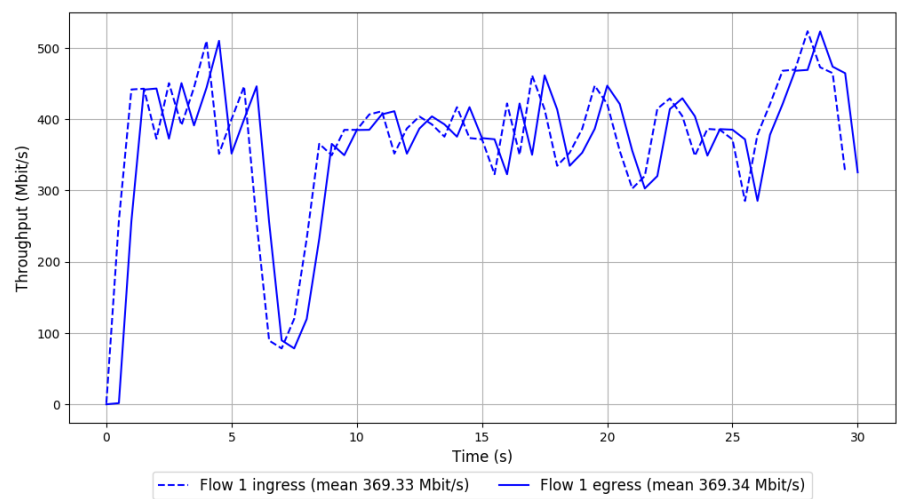
-- Flow 1:

Average throughput: 369.34 Mbit/s

95th percentile per-packet one-way delay: 1.058 ms

Loss rate: 0.01%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-02-05 12:55:13

End at: 2019-02-05 12:55:43

Local clock offset: 0.452 ms

Remote clock offset: 0.28 ms

Below is generated by plot.py at 2019-02-05 16:26:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 0.952 ms

Loss rate: 0.00%

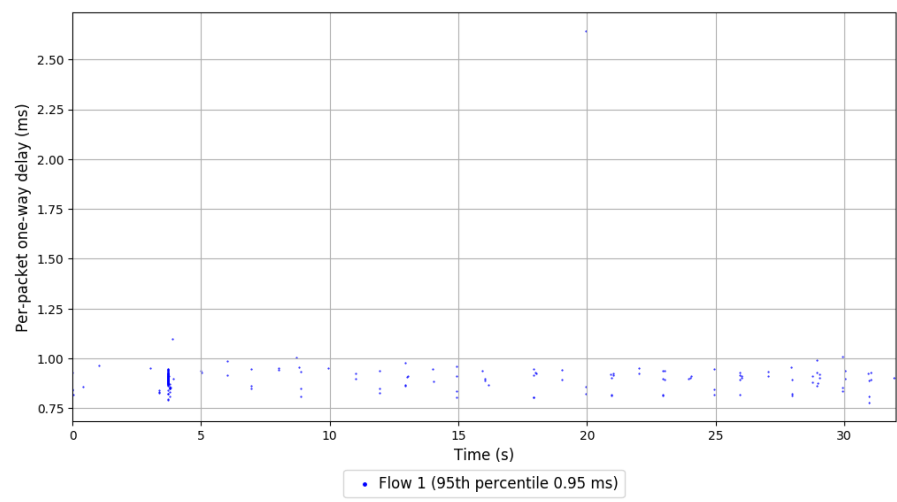
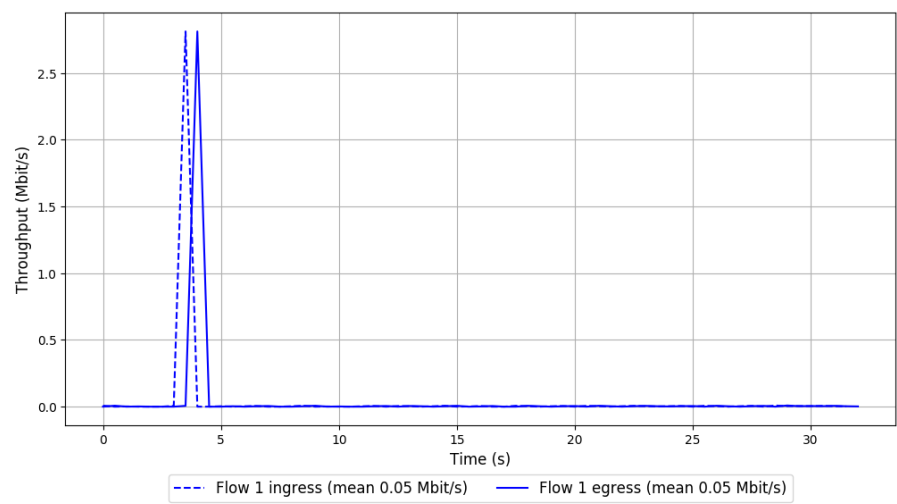
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 0.952 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-02-05 13:25:08

End at: 2019-02-05 13:25:38

Local clock offset: 0.345 ms

Remote clock offset: 0.966 ms

Below is generated by plot.py at 2019-02-05 16:26:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.114 ms

Loss rate: 0.00%

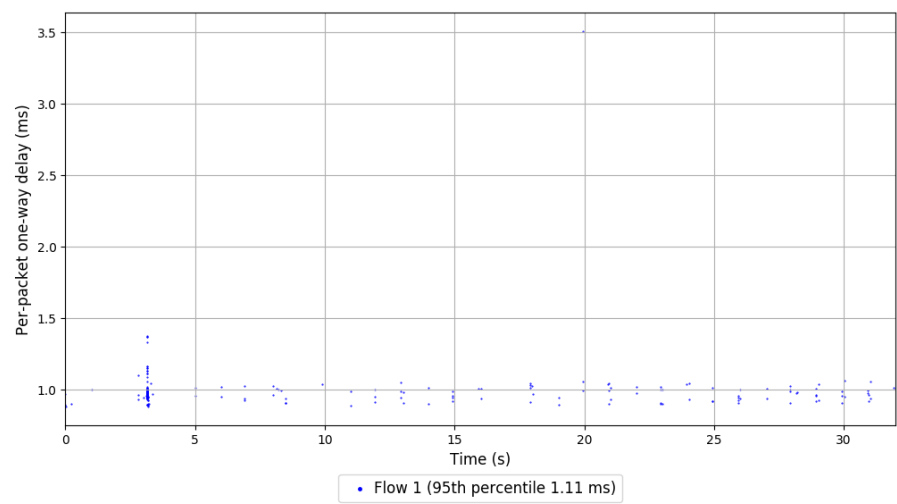
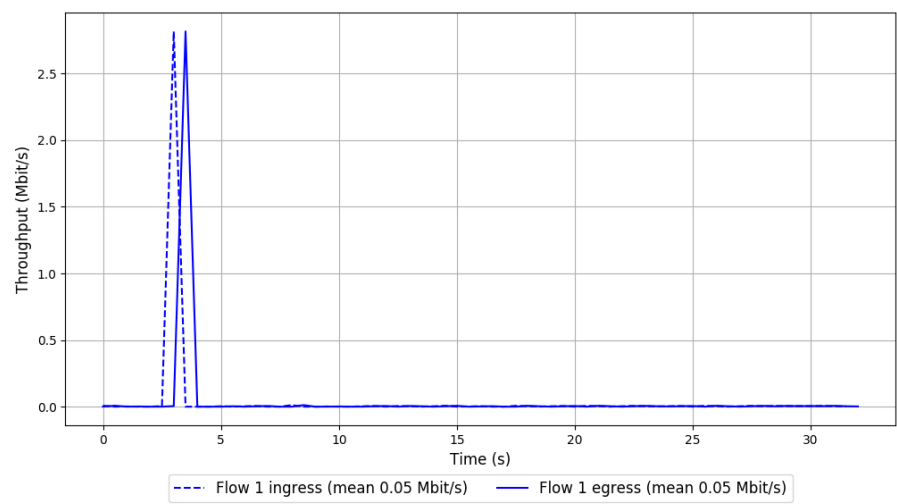
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.114 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

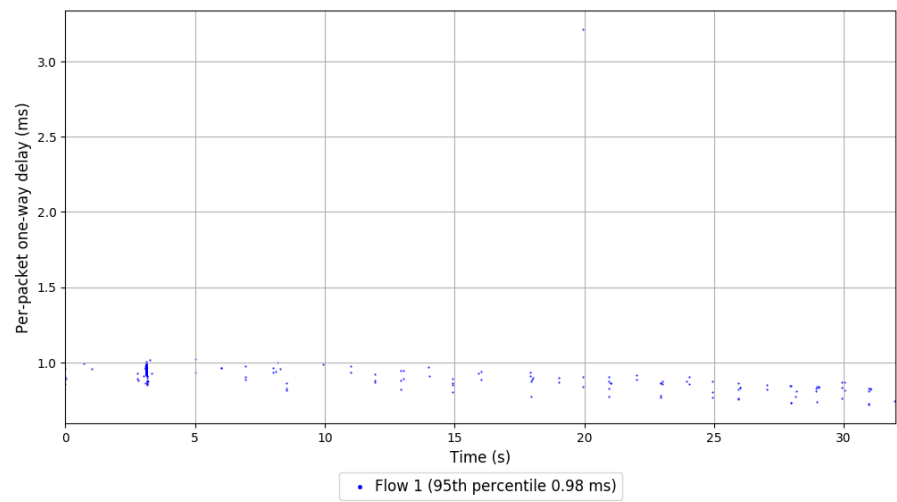
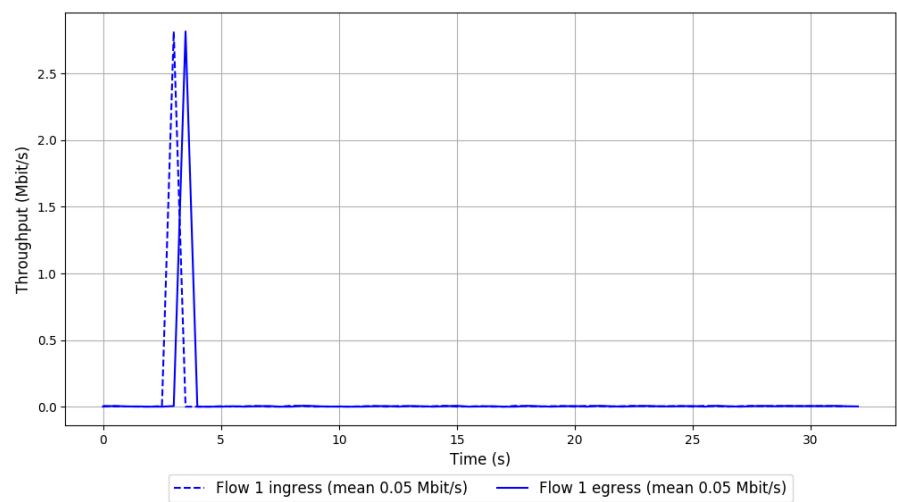


Run 3: Statistics of WebRTC media

Start at: 2019-02-05 13:55:01
End at: 2019-02-05 13:55:31
Local clock offset: 0.072 ms
Remote clock offset: -0.958 ms

Below is generated by plot.py at 2019-02-05 16:26:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 0.984 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 0.984 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

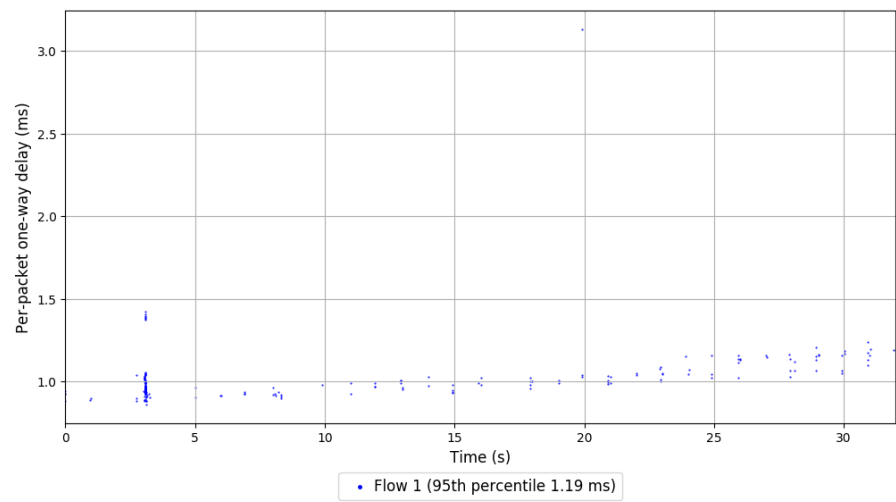
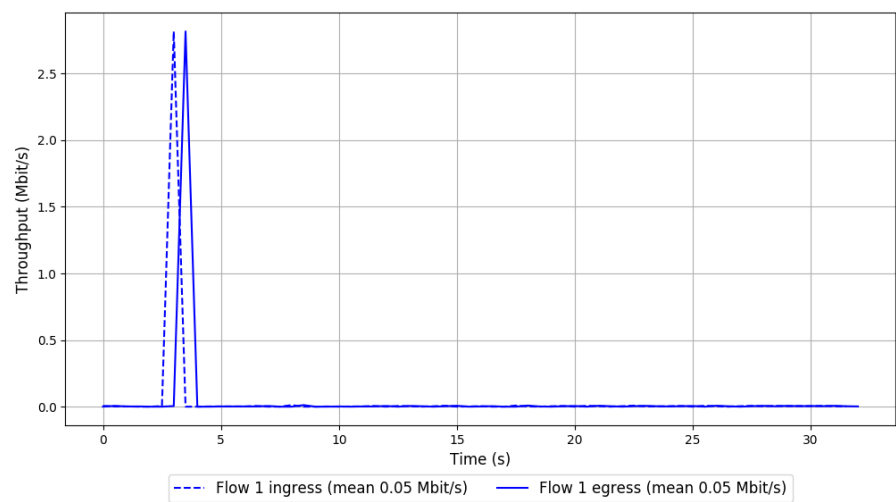


Run 4: Statistics of WebRTC media

Start at: 2019-02-05 14:24:59
End at: 2019-02-05 14:25:29
Local clock offset: 0.161 ms
Remote clock offset: -3.414 ms

Below is generated by plot.py at 2019-02-05 16:26:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.185 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.185 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-02-05 14:54:44

End at: 2019-02-05 14:55:14

Local clock offset: -1.998 ms

Remote clock offset: 0.129 ms

Below is generated by plot.py at 2019-02-05 16:26:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.132 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.132 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

