

Pantheon Report

Generated at 2019-02-05 05:40:16 (UTC).

Data path: GCE Sydney on `ens4` (*local*) → GCE Iowa on `ens4` (*remote*).

Repeated the test of 21 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

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

System info:

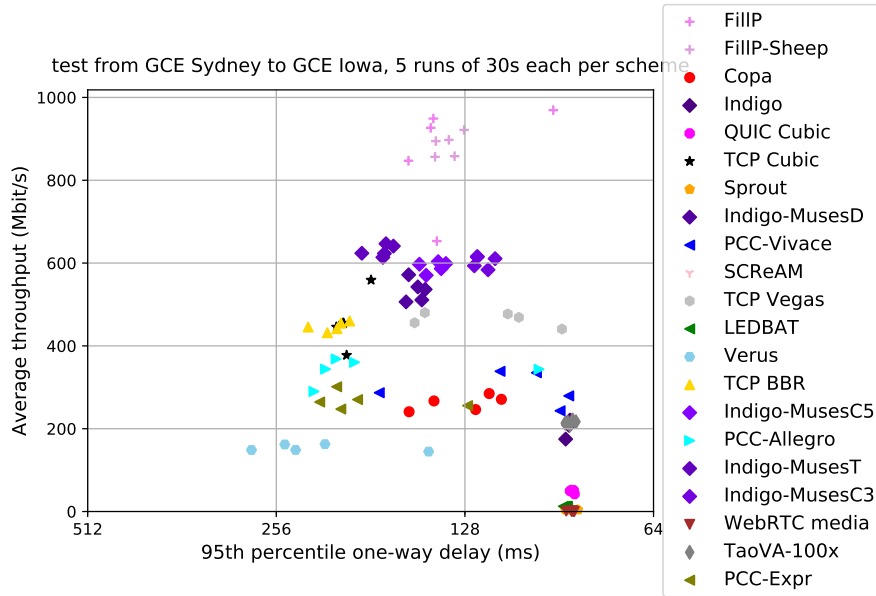
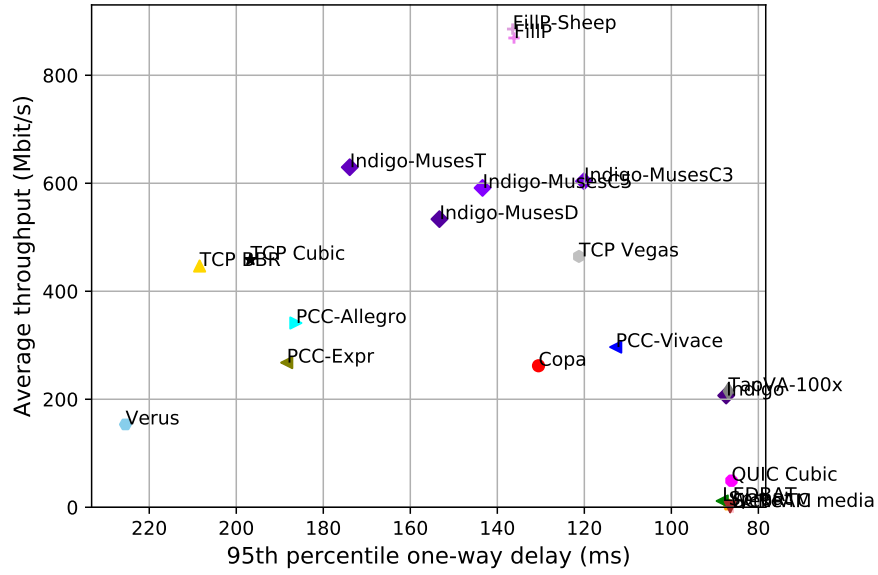
```
Linux 4.15.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf5e58e562f4
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 GCE Sydney to GCE Iowa, 5 runs of 30s each per scheme
(mean of all runs by scheme)



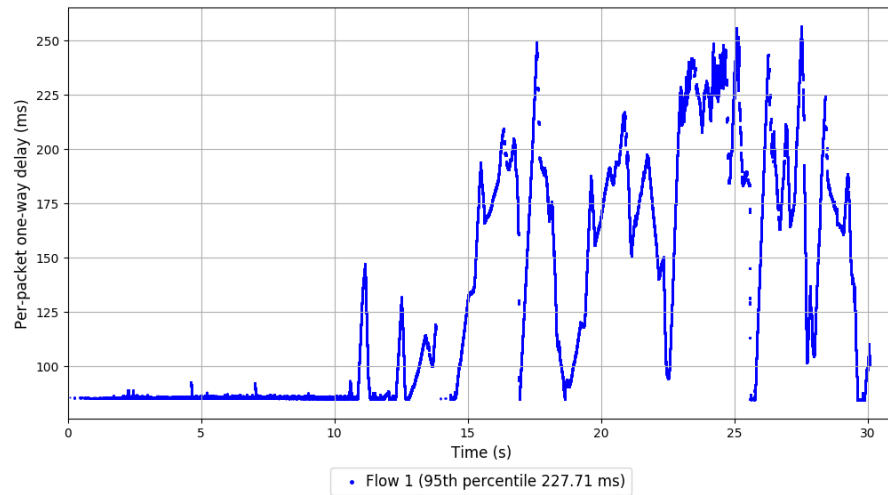
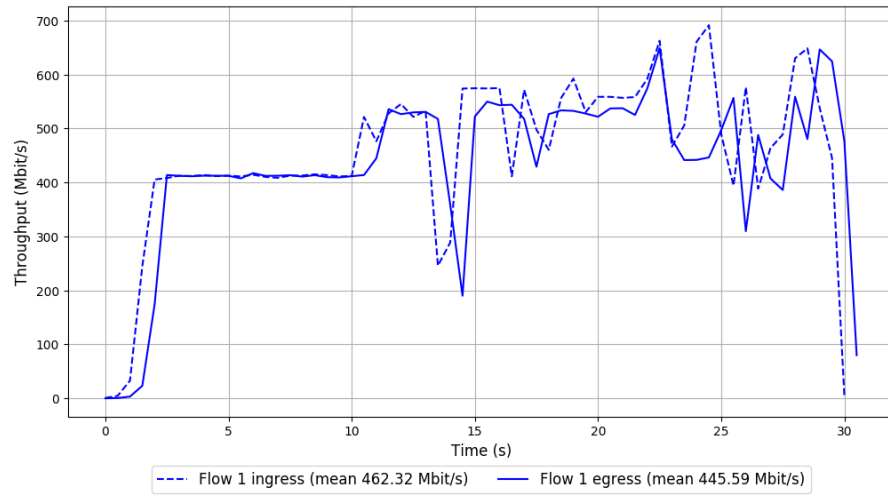
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	446.80	208.43	1.68
Copa	5	262.02	130.53	0.00
TCP Cubic	5	458.38	196.74	0.34
FillP	5	869.01	136.16	1.65
FillP-Sheep	5	885.59	136.48	0.69
Indigo	5	206.86	87.41	0.00
Indigo-MusesC3	5	603.69	120.08	0.06
Indigo-MusesC5	5	591.33	143.40	0.19
Indigo-MusesD	5	533.58	153.31	0.07
Indigo-MusesT	5	629.68	173.92	0.58
LEDBAT	5	11.57	88.31	0.00
PCC-Allegro	5	341.21	186.30	2.70
PCC-Expr	5	267.86	188.41	4.19
QUIC Cubic	5	49.19	86.18	0.00
SCReAM	5	0.22	85.94	0.00
Sprout	5	4.31	86.83	0.00
TaoVA-100x	5	215.03	86.89	0.00
TCP Vegas	5	464.51	121.25	0.14
Verus	5	153.37	225.46	7.79
PCC-Vivace	5	296.63	112.79	0.12
WebRTC media	5	0.66	86.48	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-02-05 01:03:05
End at: 2019-02-05 01:03:35
Local clock offset: 17.486 ms
Remote clock offset: -0.049 ms

Below is generated by plot.py at 2019-02-05 03:44:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 445.59 Mbit/s
95th percentile per-packet one-way delay: 227.714 ms
Loss rate: 3.62%
-- Flow 1:
Average throughput: 445.59 Mbit/s
95th percentile per-packet one-way delay: 227.714 ms
Loss rate: 3.62%

Run 1: Report of TCP BBR — Data Link

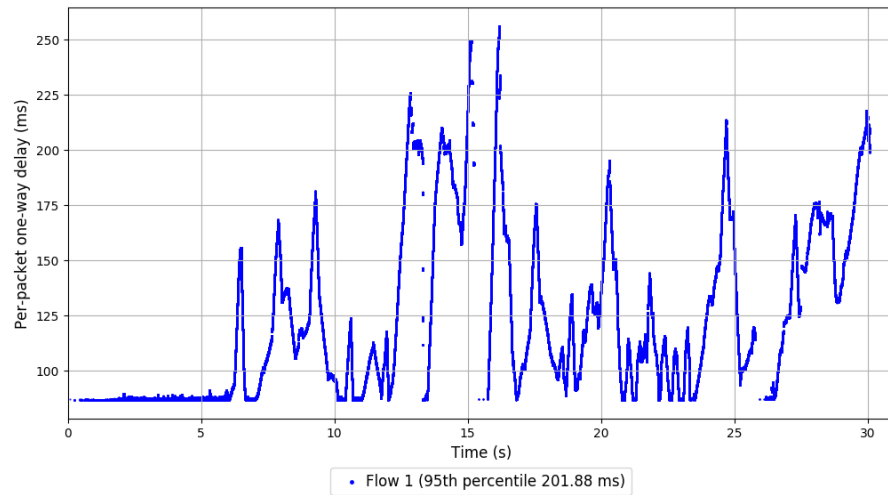
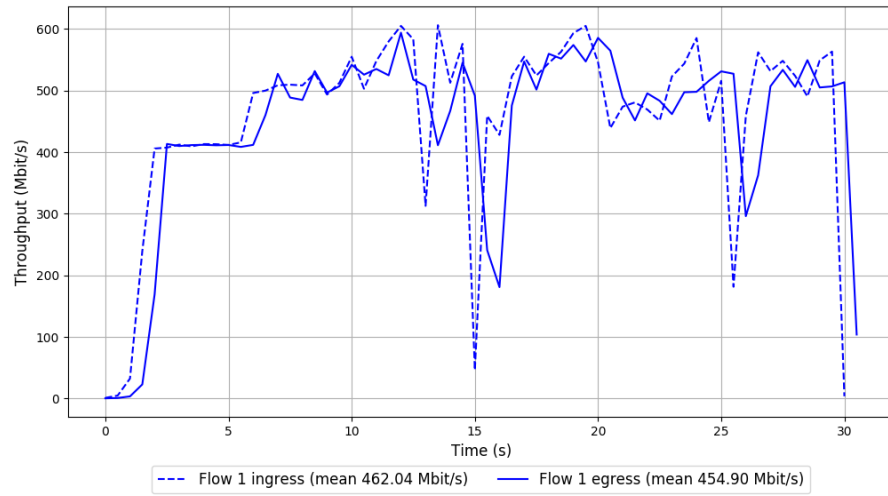


Run 2: Statistics of TCP BBR

Start at: 2019-02-05 01:34:10
End at: 2019-02-05 01:34:40
Local clock offset: 21.564 ms
Remote clock offset: -0.324 ms

Below is generated by plot.py at 2019-02-05 03:44:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 454.90 Mbit/s
95th percentile per-packet one-way delay: 201.881 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 454.90 Mbit/s
95th percentile per-packet one-way delay: 201.881 ms
Loss rate: 1.54%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

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

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

Local clock offset: 17.2 ms

Remote clock offset: -0.518 ms

Below is generated by plot.py at 2019-02-05 03:44:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 431.82 Mbit/s

95th percentile per-packet one-way delay: 212.176 ms

Loss rate: 1.15%

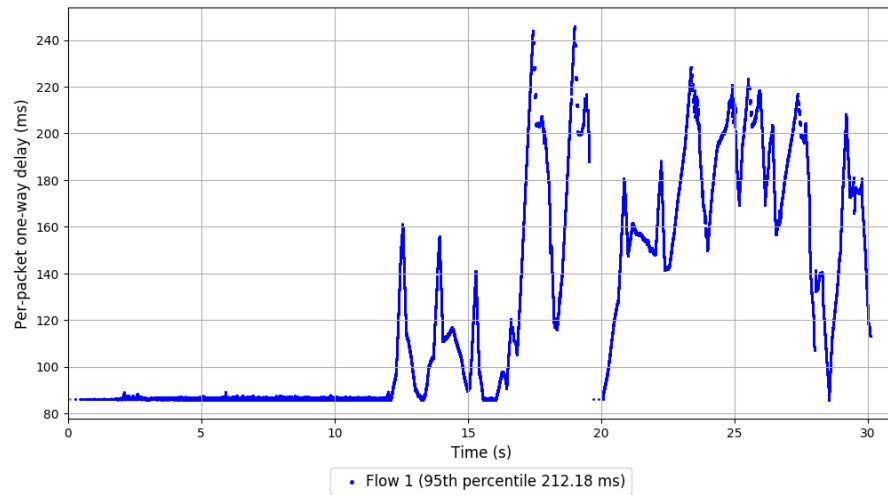
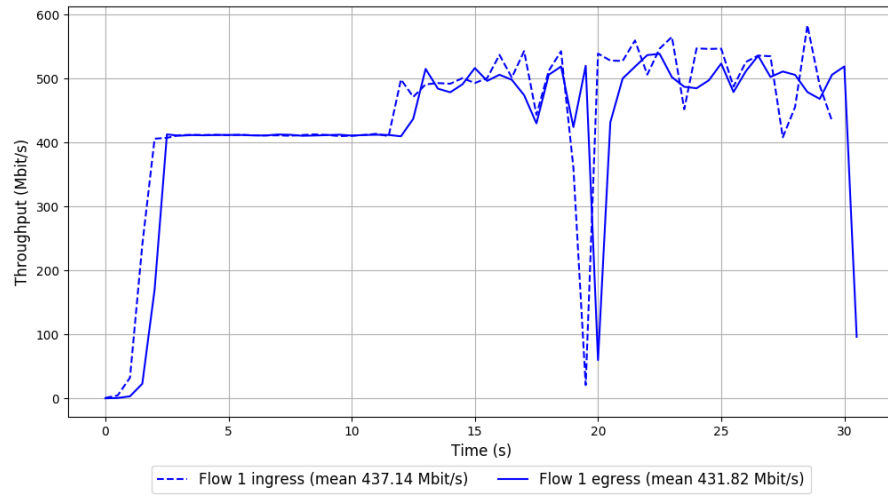
-- Flow 1:

Average throughput: 431.82 Mbit/s

95th percentile per-packet one-way delay: 212.176 ms

Loss rate: 1.15%

Run 3: Report of TCP BBR — Data Link

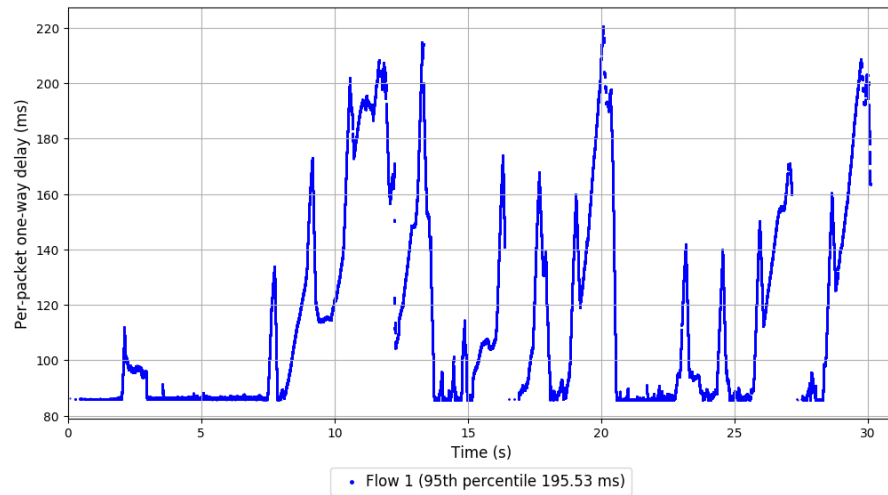
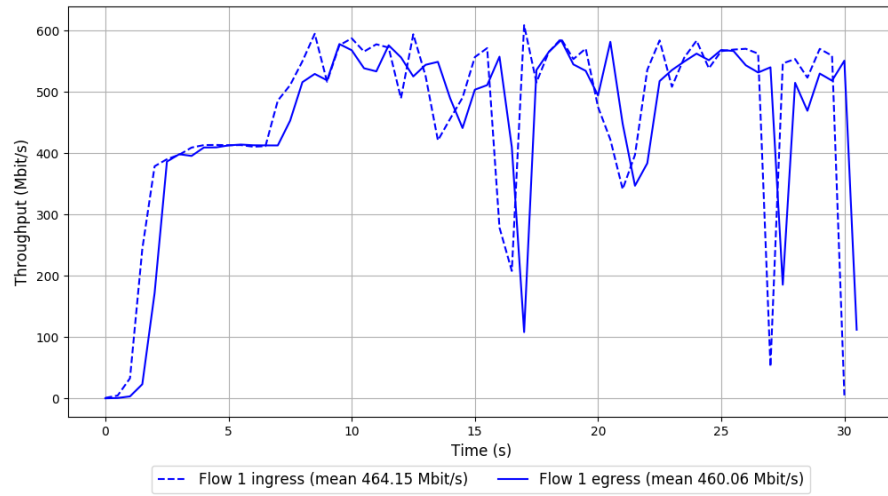


Run 4: Statistics of TCP BBR

Start at: 2019-02-05 02:36:37
End at: 2019-02-05 02:37:07
Local clock offset: 9.682 ms
Remote clock offset: -0.206 ms

Below is generated by plot.py at 2019-02-05 03:44:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 460.06 Mbit/s
95th percentile per-packet one-way delay: 195.533 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 460.06 Mbit/s
95th percentile per-packet one-way delay: 195.533 ms
Loss rate: 0.88%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-02-05 03:08:01

End at: 2019-02-05 03:08:31

Local clock offset: 5.318 ms

Remote clock offset: 0.083 ms

Below is generated by plot.py at 2019-02-05 03:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 441.63 Mbit/s

95th percentile per-packet one-way delay: 204.825 ms

Loss rate: 1.20%

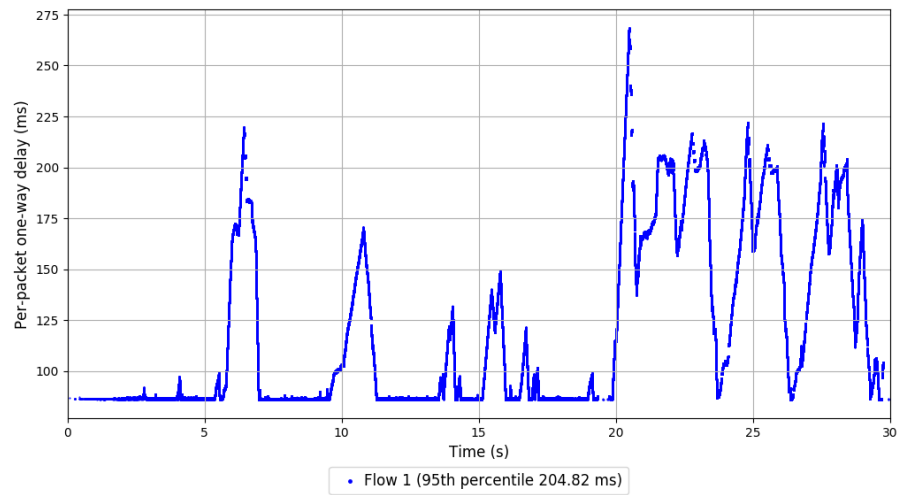
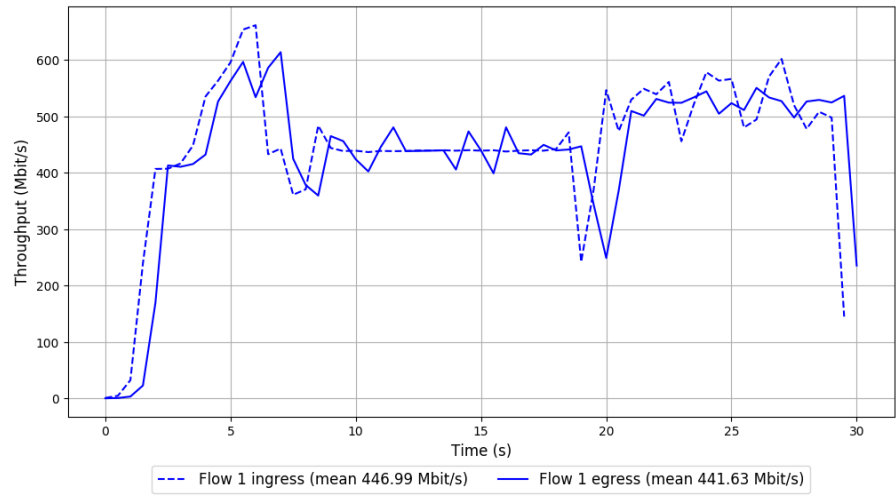
-- Flow 1:

Average throughput: 441.63 Mbit/s

95th percentile per-packet one-way delay: 204.825 ms

Loss rate: 1.20%

Run 5: Report of TCP BBR — Data Link

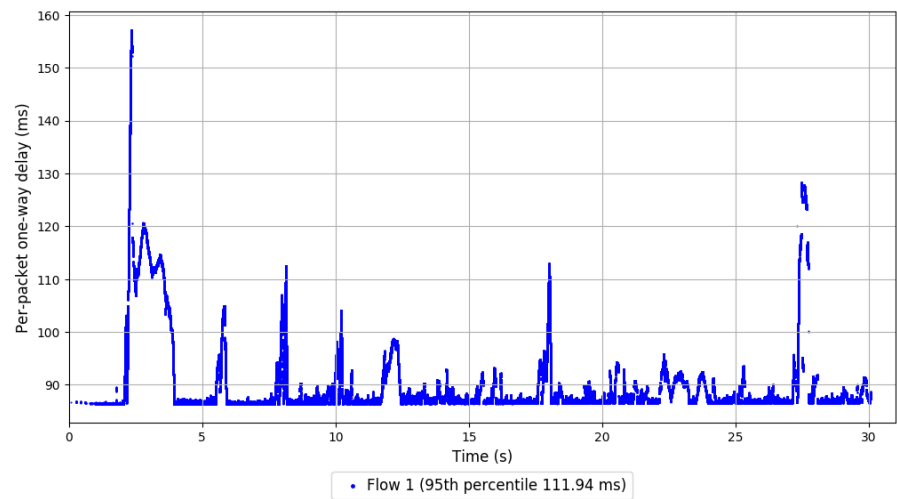
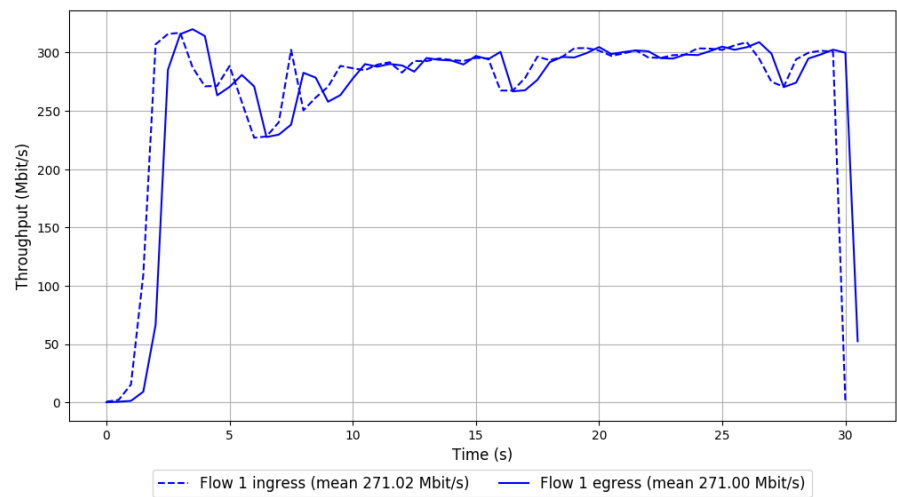


Run 1: Statistics of Copa

Start at: 2019-02-05 01:07:43
End at: 2019-02-05 01:08:13
Local clock offset: 13.091 ms
Remote clock offset: -0.109 ms

Below is generated by plot.py at 2019-02-05 03:45:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 271.00 Mbit/s
95th percentile per-packet one-way delay: 111.945 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 271.00 Mbit/s
95th percentile per-packet one-way delay: 111.945 ms
Loss rate: 0.00%

Run 1: Report of Copa — Data Link

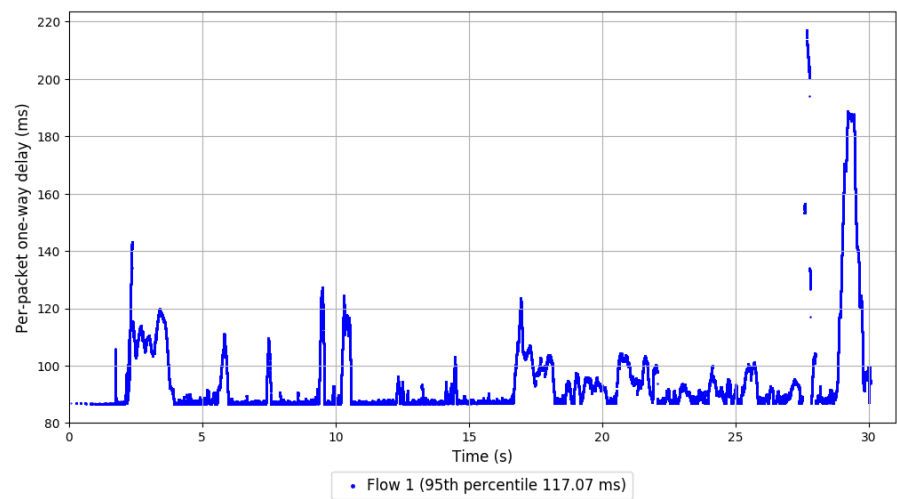
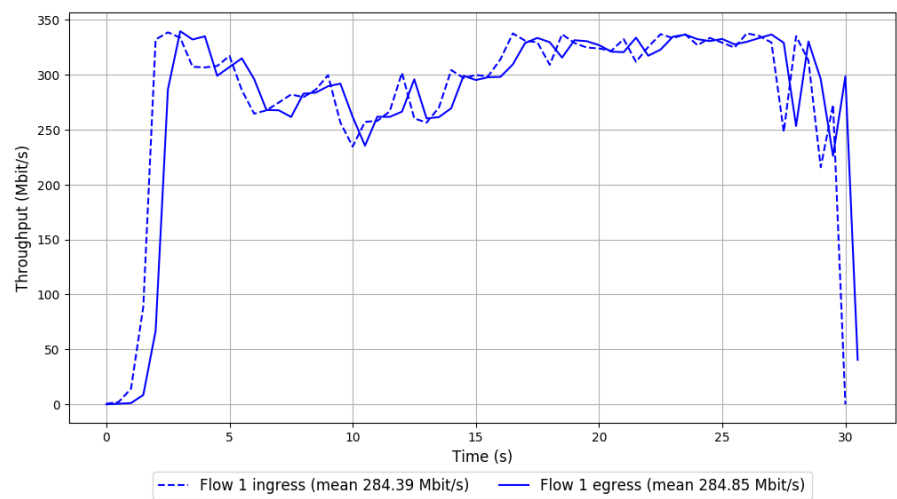


Run 2: Statistics of Copa

Start at: 2019-02-05 01:38:47
End at: 2019-02-05 01:39:17
Local clock offset: 25.081 ms
Remote clock offset: -0.343 ms

Below is generated by plot.py at 2019-02-05 03:45:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 284.85 Mbit/s
95th percentile per-packet one-way delay: 117.073 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 284.85 Mbit/s
95th percentile per-packet one-way delay: 117.073 ms
Loss rate: 0.00%

Run 2: Report of Copa — Data Link

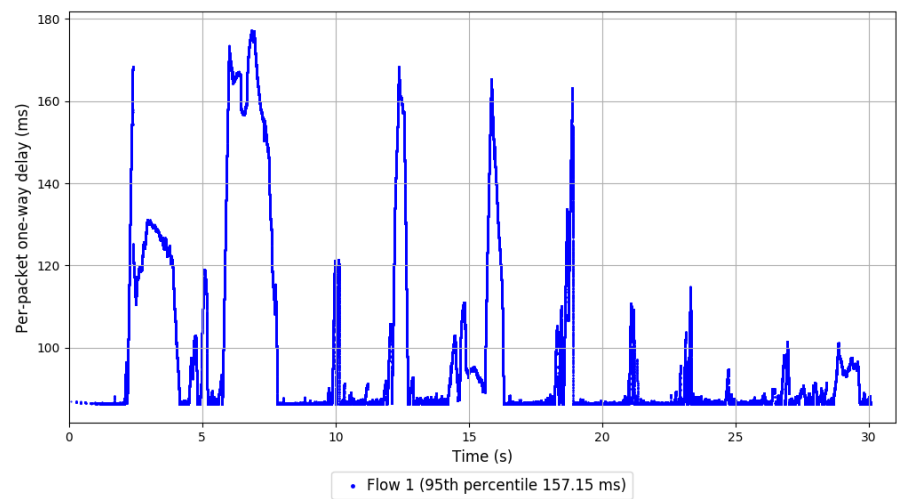
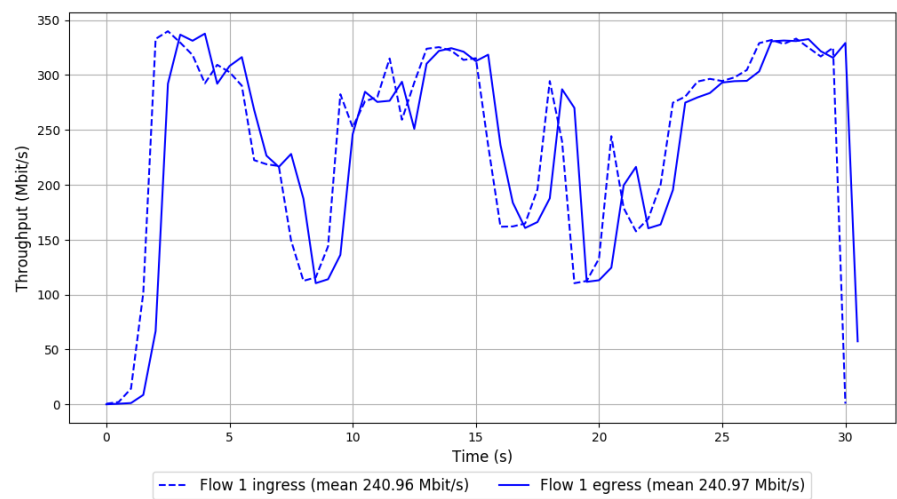


Run 3: Statistics of Copa

Start at: 2019-02-05 02:10:02
End at: 2019-02-05 02:10:32
Local clock offset: 15.405 ms
Remote clock offset: -0.531 ms

Below is generated by plot.py at 2019-02-05 03:45:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 240.97 Mbit/s
95th percentile per-packet one-way delay: 157.146 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 240.97 Mbit/s
95th percentile per-packet one-way delay: 157.146 ms
Loss rate: 0.00%

Run 3: Report of Copa — Data Link

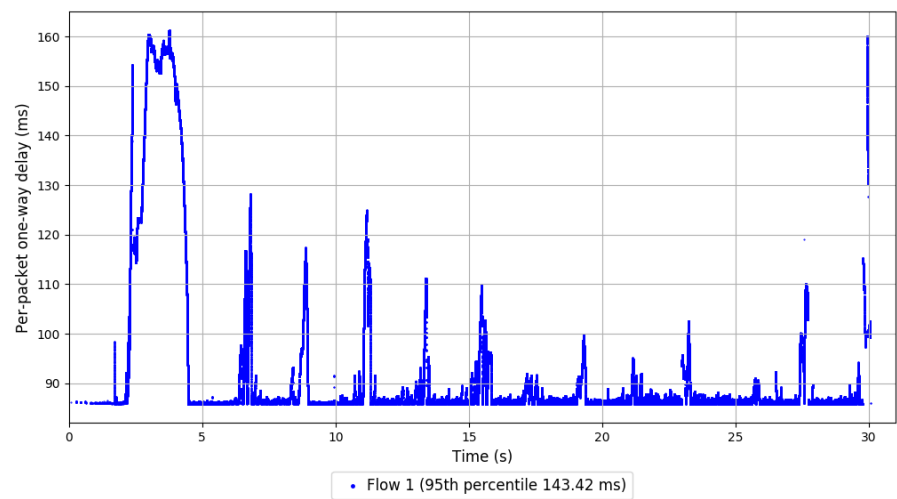
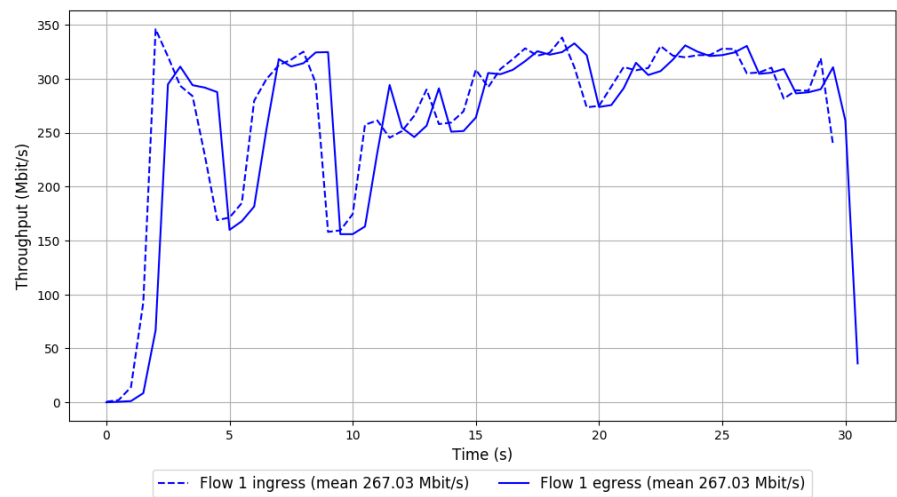


Run 4: Statistics of Copa

Start at: 2019-02-05 02:41:16
End at: 2019-02-05 02:41:46
Local clock offset: 8.204 ms
Remote clock offset: -0.116 ms

Below is generated by plot.py at 2019-02-05 03:55:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 267.03 Mbit/s
95th percentile per-packet one-way delay: 143.424 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 267.03 Mbit/s
95th percentile per-packet one-way delay: 143.424 ms
Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-02-05 03:12:37

End at: 2019-02-05 03:13:08

Local clock offset: 3.709 ms

Remote clock offset: 0.017 ms

Below is generated by plot.py at 2019-02-05 03:55:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 246.25 Mbit/s

95th percentile per-packet one-way delay: 123.064 ms

Loss rate: 0.00%

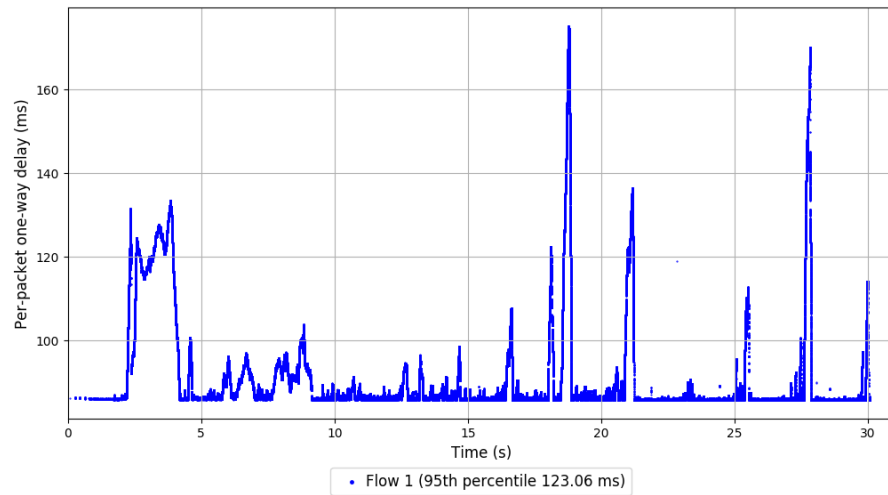
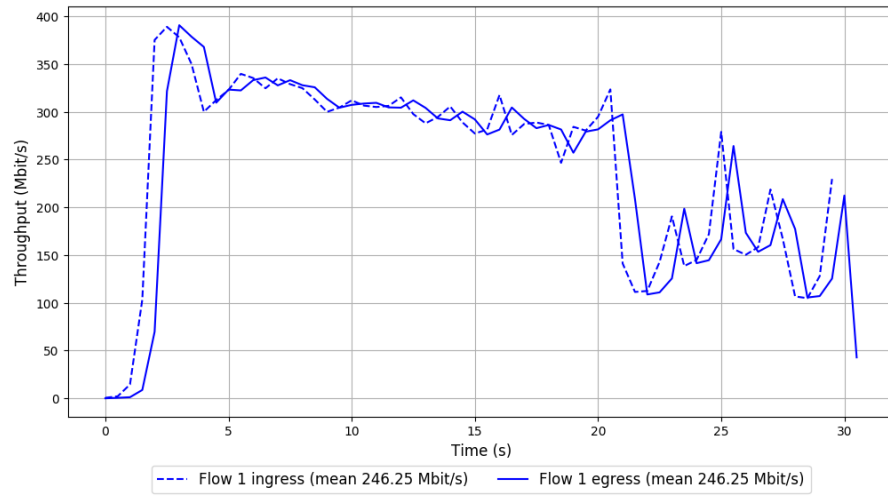
-- Flow 1:

Average throughput: 246.25 Mbit/s

95th percentile per-packet one-way delay: 123.064 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link

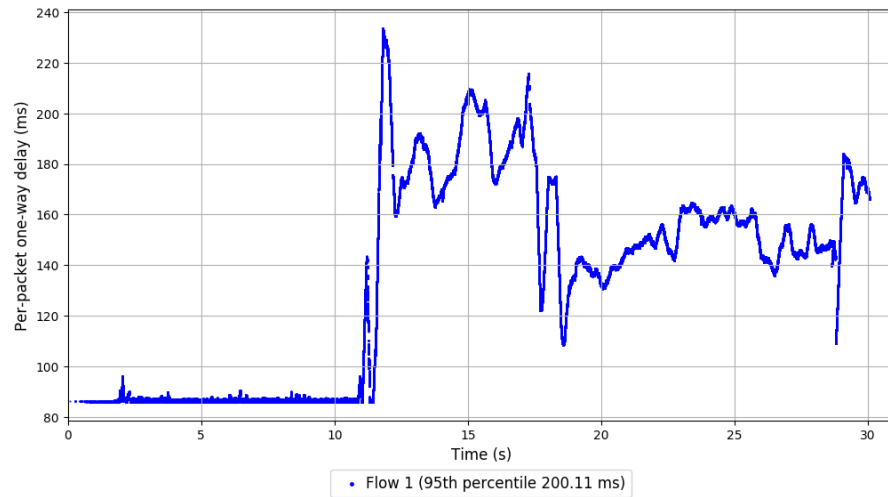
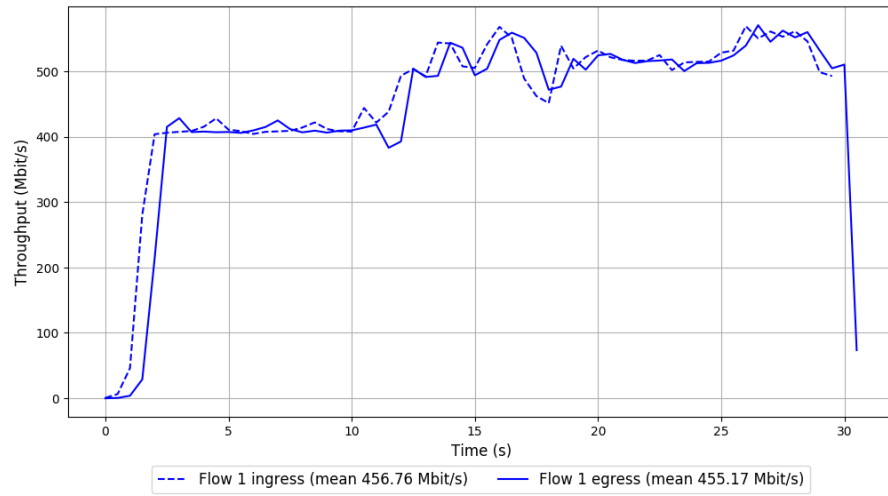


Run 1: Statistics of TCP Cubic

Start at: 2019-02-05 00:55:25
End at: 2019-02-05 00:55:55
Local clock offset: 9.39 ms
Remote clock offset: -0.018 ms

Below is generated by plot.py at 2019-02-05 03:55:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 455.17 Mbit/s
95th percentile per-packet one-way delay: 200.112 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 455.17 Mbit/s
95th percentile per-packet one-way delay: 200.112 ms
Loss rate: 0.35%

Run 1: Report of TCP Cubic — Data Link

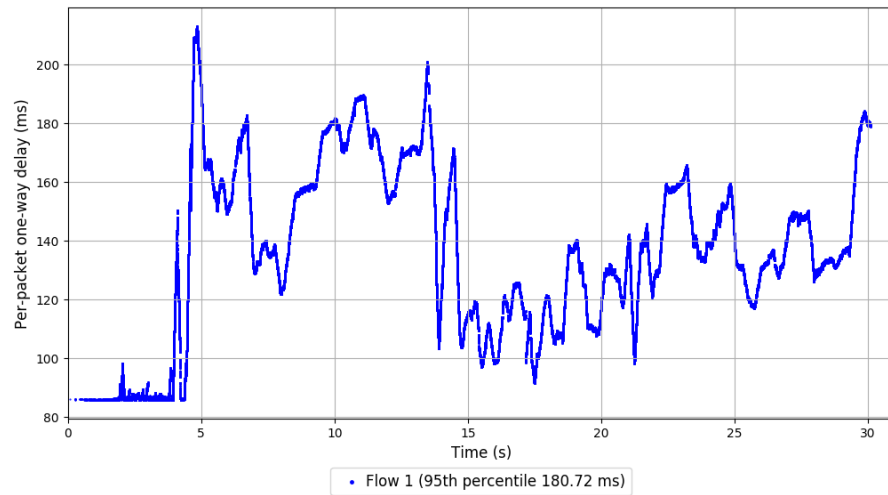
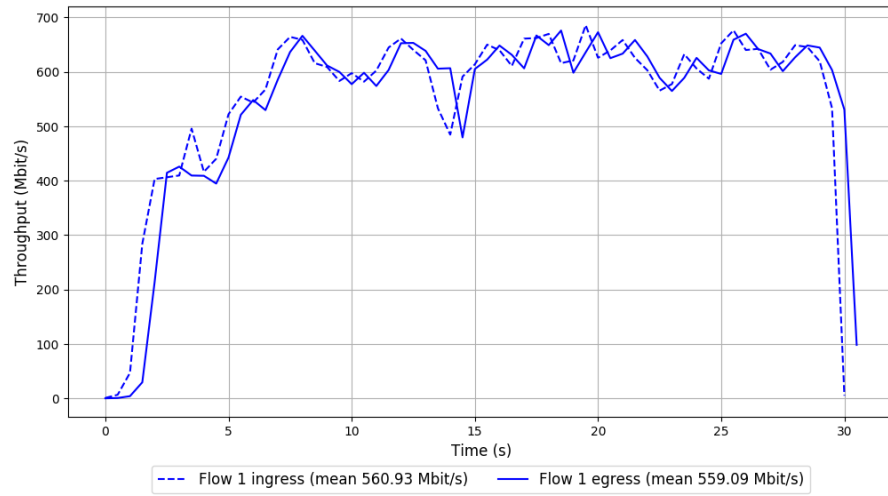


Run 2: Statistics of TCP Cubic

Start at: 2019-02-05 01:26:27
End at: 2019-02-05 01:26:57
Local clock offset: 20.244 ms
Remote clock offset: -0.256 ms

Below is generated by plot.py at 2019-02-05 03:56:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 559.09 Mbit/s
95th percentile per-packet one-way delay: 180.715 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 559.09 Mbit/s
95th percentile per-packet one-way delay: 180.715 ms
Loss rate: 0.33%

Run 2: Report of TCP Cubic — Data Link

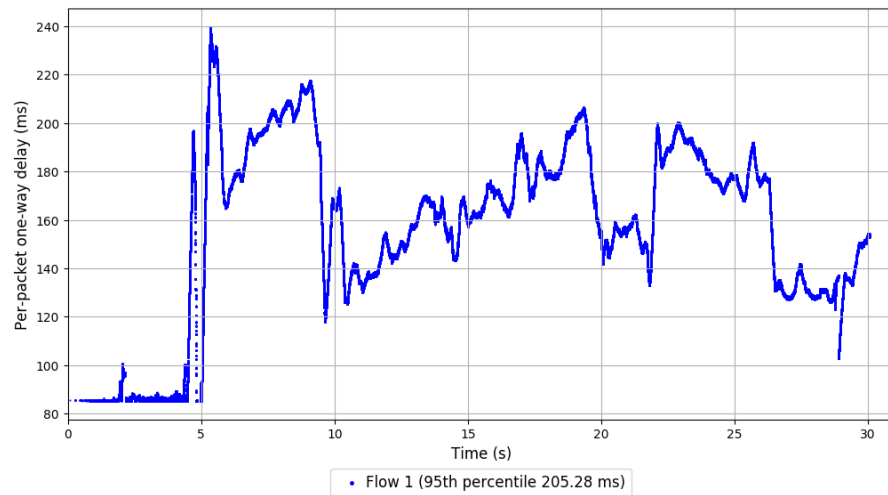
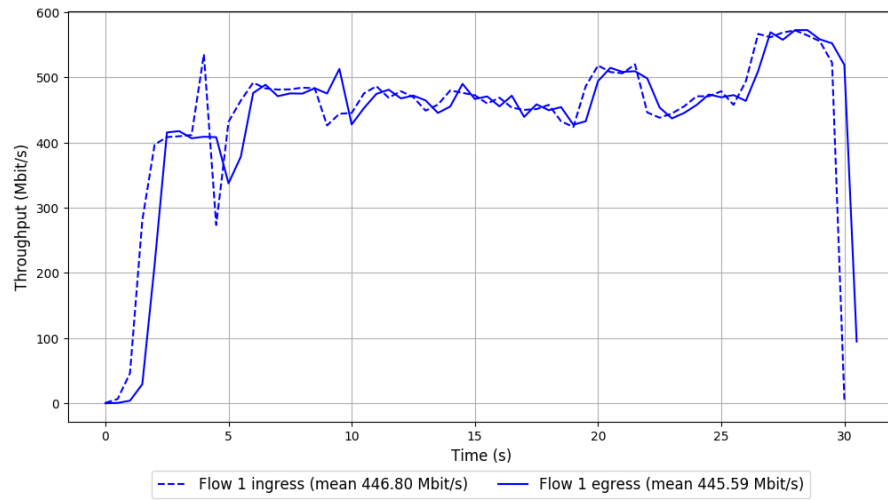


Run 3: Statistics of TCP Cubic

Start at: 2019-02-05 01:57:51
End at: 2019-02-05 01:58:21
Local clock offset: 27.831 ms
Remote clock offset: -0.468 ms

Below is generated by plot.py at 2019-02-05 03:56:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 445.59 Mbit/s
95th percentile per-packet one-way delay: 205.279 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 445.59 Mbit/s
95th percentile per-packet one-way delay: 205.279 ms
Loss rate: 0.27%

Run 3: Report of TCP Cubic — Data Link

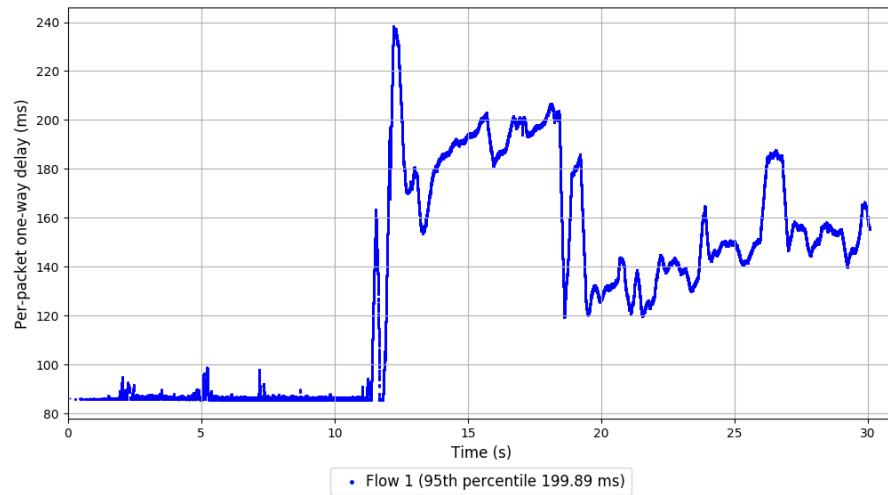
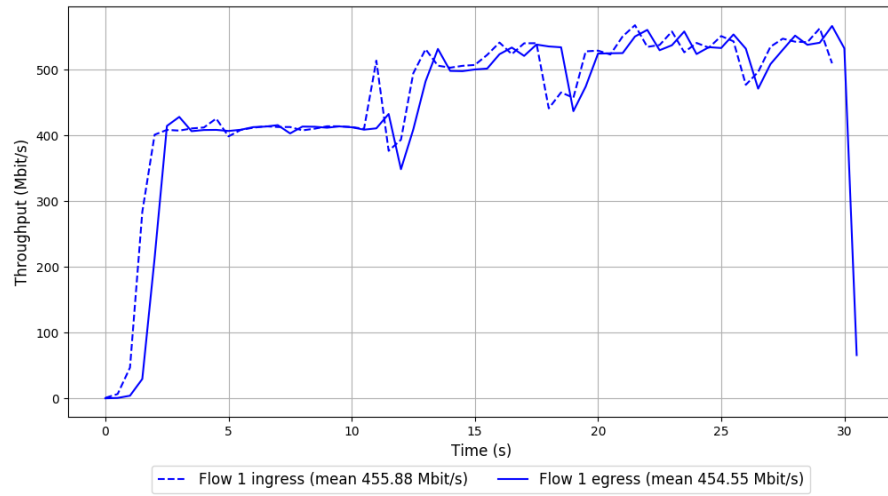


Run 4: Statistics of TCP Cubic

Start at: 2019-02-05 02:28:57
End at: 2019-02-05 02:29:27
Local clock offset: 18.559 ms
Remote clock offset: -0.583 ms

Below is generated by plot.py at 2019-02-05 03:56:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 454.55 Mbit/s
95th percentile per-packet one-way delay: 199.890 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 454.55 Mbit/s
95th percentile per-packet one-way delay: 199.890 ms
Loss rate: 0.29%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-02-05 03:00:25

End at: 2019-02-05 03:00:55

Local clock offset: 9.598 ms

Remote clock offset: 0.101 ms

Below is generated by plot.py at 2019-02-05 03:56:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 377.52 Mbit/s

95th percentile per-packet one-way delay: 197.711 ms

Loss rate: 0.46%

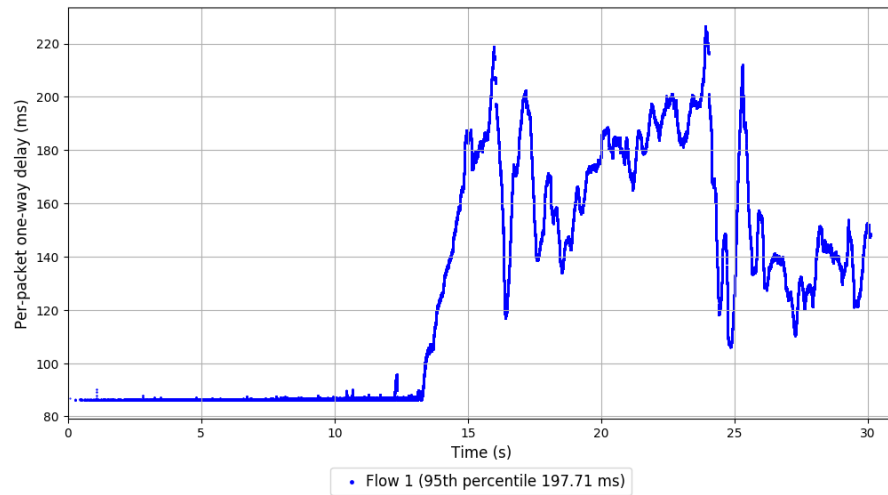
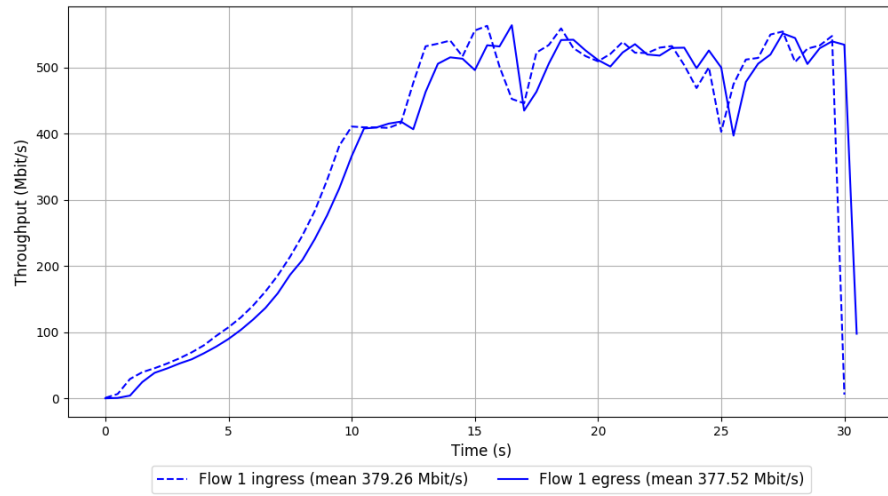
-- Flow 1:

Average throughput: 377.52 Mbit/s

95th percentile per-packet one-way delay: 197.711 ms

Loss rate: 0.46%

Run 5: Report of TCP Cubic — Data Link

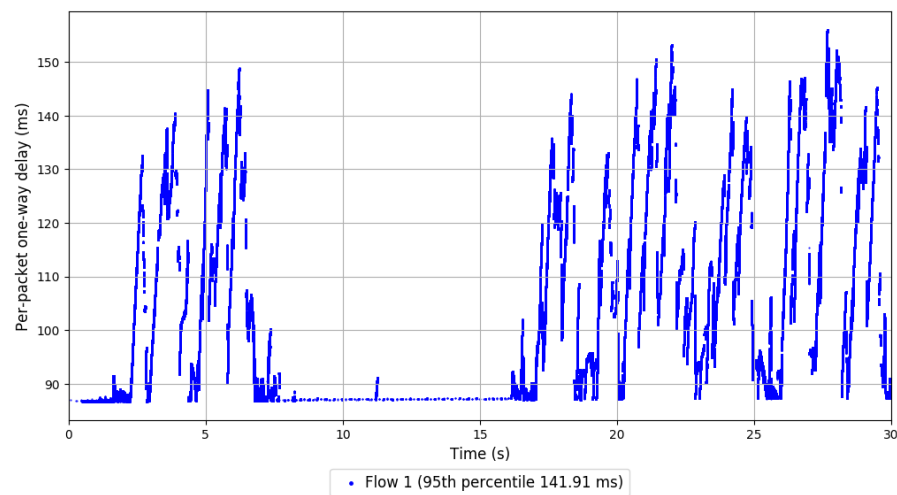
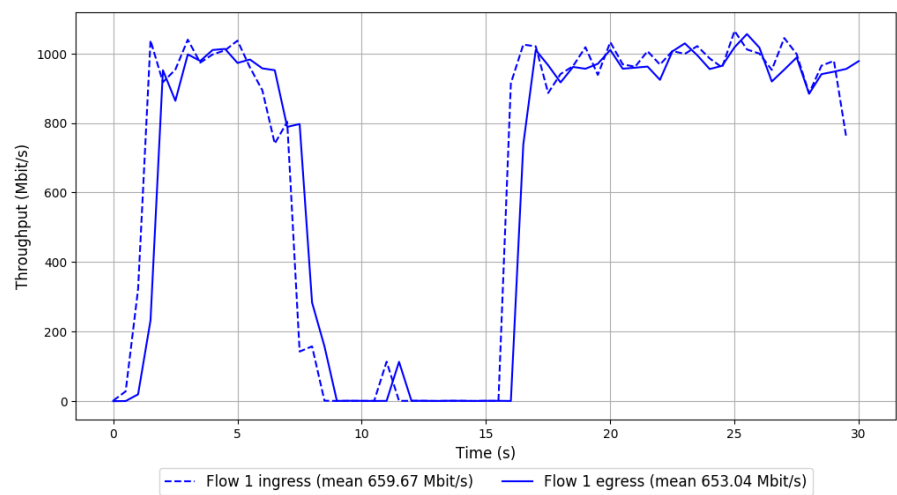


Run 1: Statistics of FillP

Start at: 2019-02-05 01:13:56
End at: 2019-02-05 01:14:26
Local clock offset: 18.853 ms
Remote clock offset: -0.168 ms

Below is generated by plot.py at 2019-02-05 04:01:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 653.04 Mbit/s
95th percentile per-packet one-way delay: 141.908 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 653.04 Mbit/s
95th percentile per-packet one-way delay: 141.908 ms
Loss rate: 1.00%

Run 1: Report of FillP — Data Link

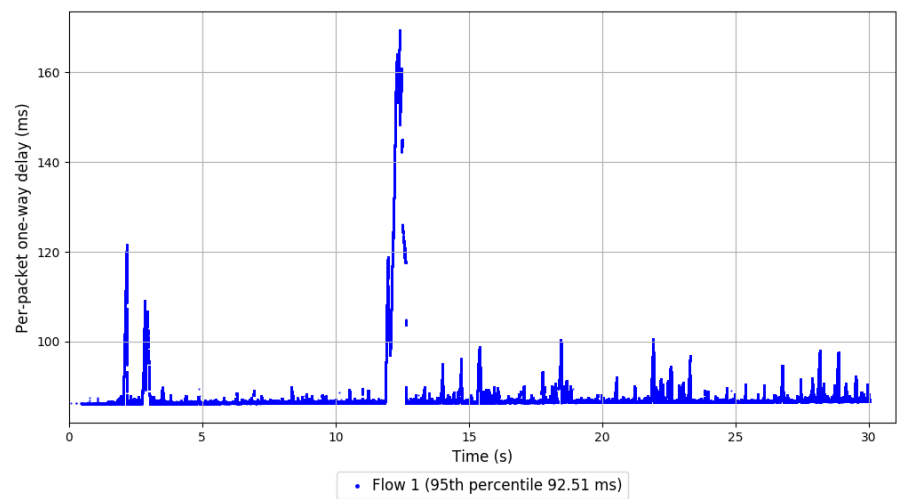
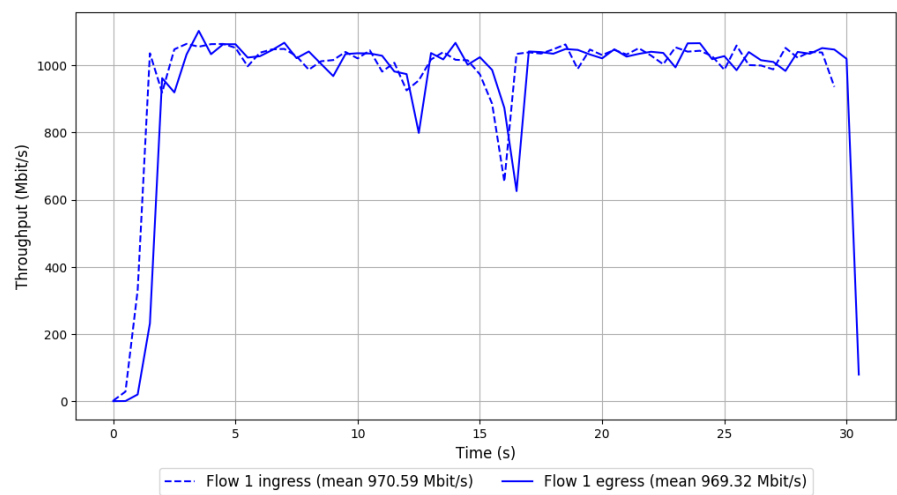


Run 2: Statistics of FillP

Start at: 2019-02-05 01:45:03
End at: 2019-02-05 01:45:33
Local clock offset: 31.209 ms
Remote clock offset: -0.402 ms

Below is generated by plot.py at 2019-02-05 04:19:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 969.32 Mbit/s
95th percentile per-packet one-way delay: 92.511 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 969.32 Mbit/s
95th percentile per-packet one-way delay: 92.511 ms
Loss rate: 0.13%

Run 2: Report of FillP — Data Link

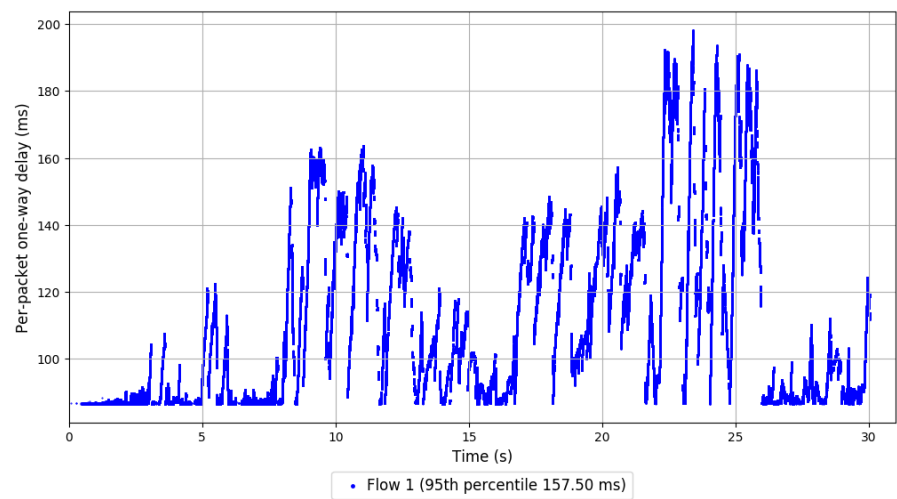
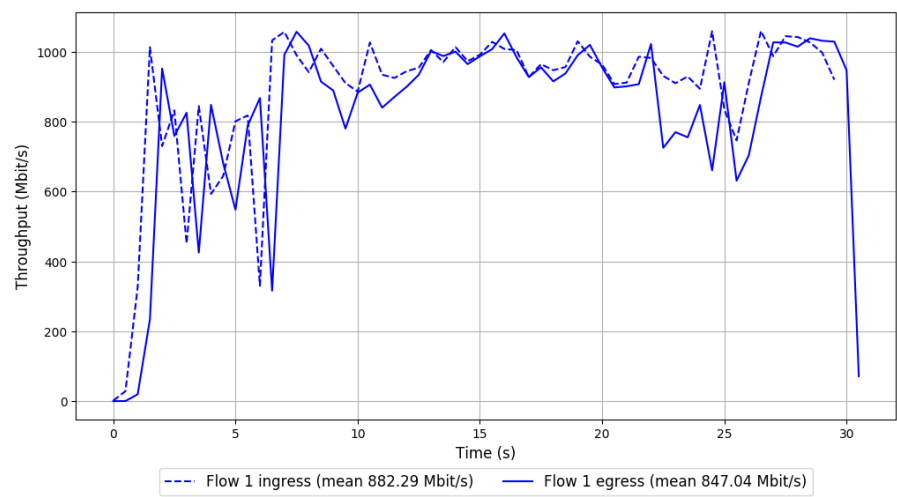


Run 3: Statistics of FillP

Start at: 2019-02-05 02:16:16
End at: 2019-02-05 02:16:46
Local clock offset: 15.65 ms
Remote clock offset: -0.605 ms

Below is generated by plot.py at 2019-02-05 04:19:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 847.04 Mbit/s
95th percentile per-packet one-way delay: 157.496 ms
Loss rate: 3.99%
-- Flow 1:
Average throughput: 847.04 Mbit/s
95th percentile per-packet one-way delay: 157.496 ms
Loss rate: 3.99%

Run 3: Report of FillP — Data Link

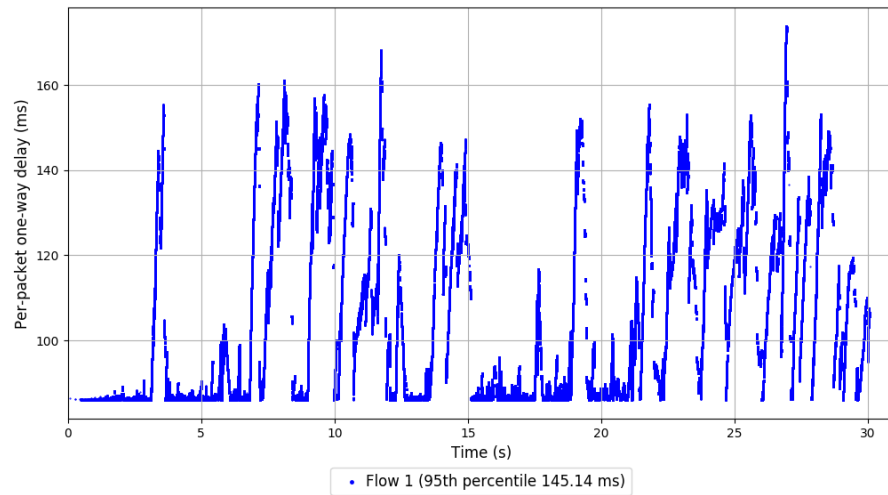
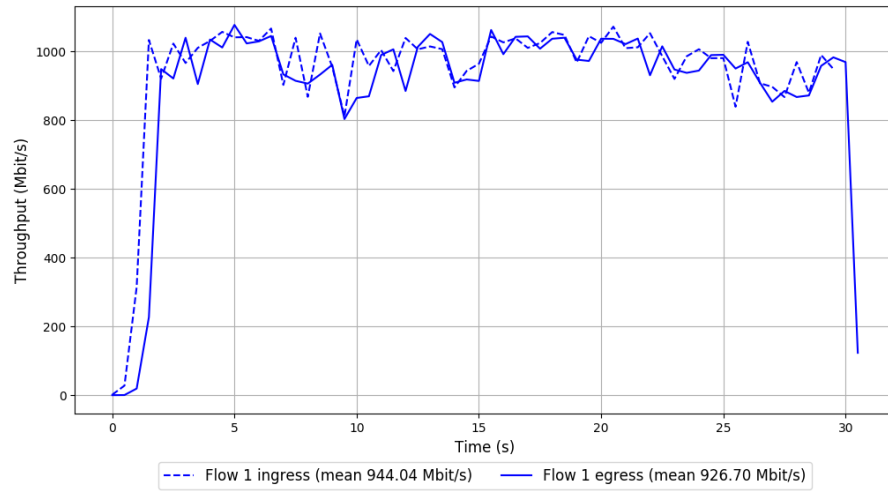


Run 4: Statistics of FillP

Start at: 2019-02-05 02:47:30
End at: 2019-02-05 02:48:00
Local clock offset: 7.629 ms
Remote clock offset: -0.051 ms

Below is generated by plot.py at 2019-02-05 04:19:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 926.70 Mbit/s
95th percentile per-packet one-way delay: 145.136 ms
Loss rate: 1.84%
-- Flow 1:
Average throughput: 926.70 Mbit/s
95th percentile per-packet one-way delay: 145.136 ms
Loss rate: 1.84%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-02-05 03:19:00

End at: 2019-02-05 03:19:30

Local clock offset: 2.405 ms

Remote clock offset: 0.028 ms

Below is generated by plot.py at 2019-02-05 04:19:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 948.97 Mbit/s

95th percentile per-packet one-way delay: 143.772 ms

Loss rate: 1.30%

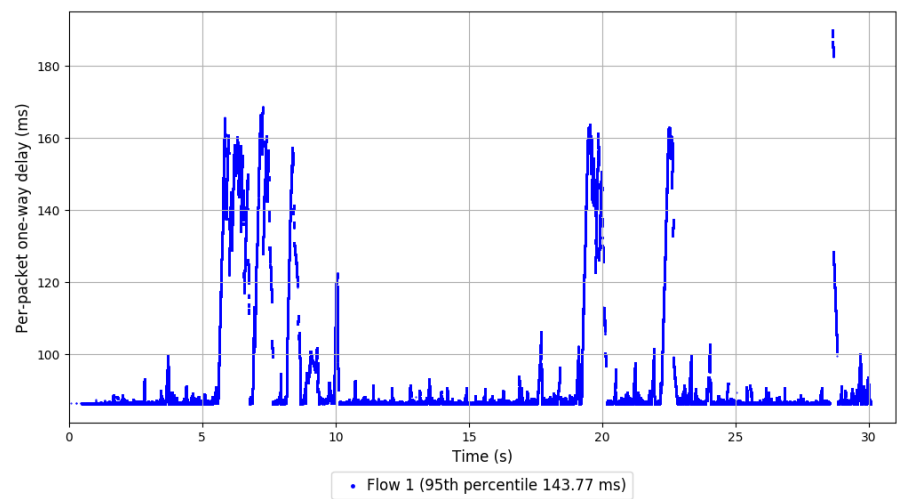
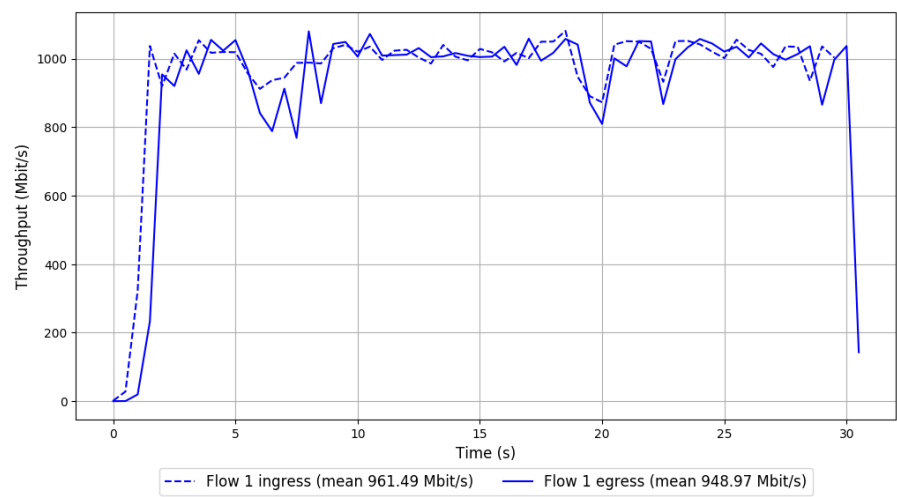
-- Flow 1:

Average throughput: 948.97 Mbit/s

95th percentile per-packet one-way delay: 143.772 ms

Loss rate: 1.30%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-02-05 00:56:57

End at: 2019-02-05 00:57:27

Local clock offset: 9.131 ms

Remote clock offset: -0.041 ms

Below is generated by plot.py at 2019-02-05 04:19:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 921.52 Mbit/s

95th percentile per-packet one-way delay: 128.376 ms

Loss rate: 0.16%

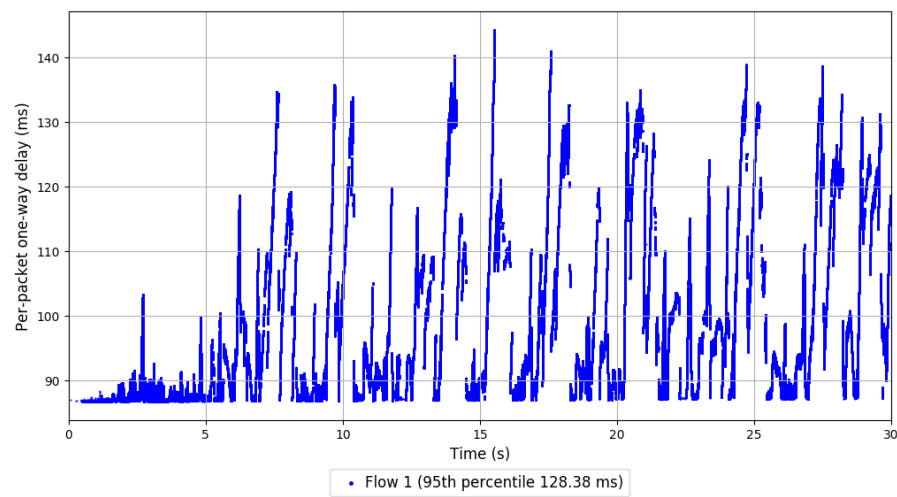
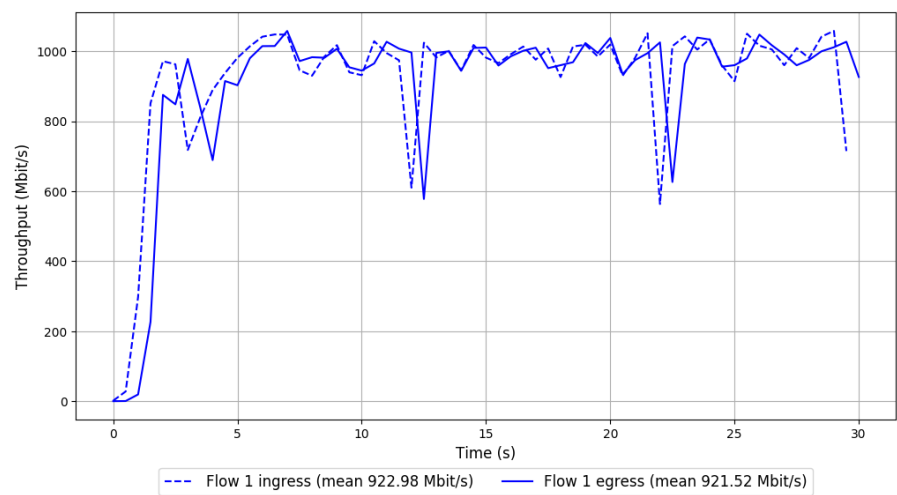
-- Flow 1:

Average throughput: 921.52 Mbit/s

95th percentile per-packet one-way delay: 128.376 ms

Loss rate: 0.16%

Run 1: Report of FillP-Sheep — Data Link

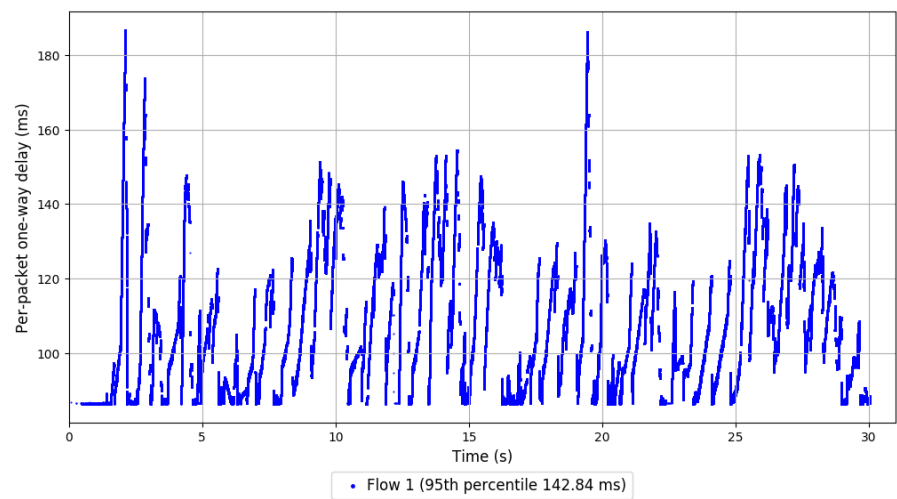
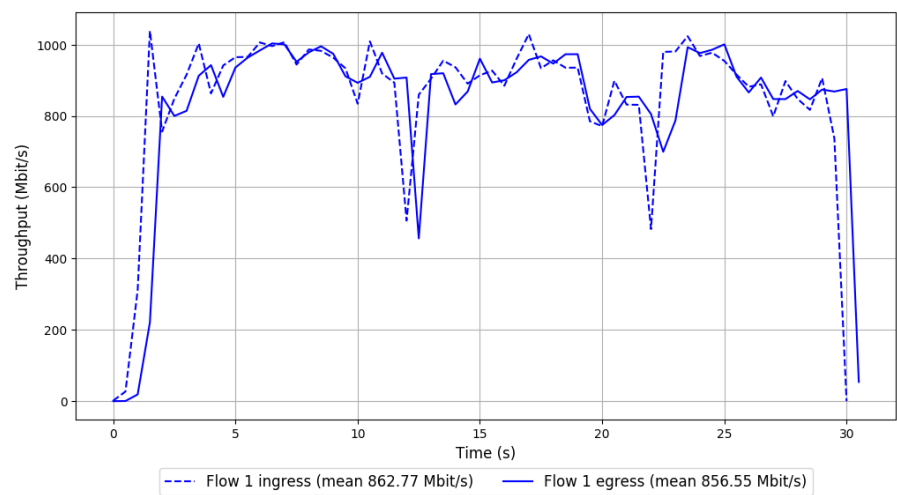


Run 2: Statistics of FillP-Sheep

Start at: 2019-02-05 01:28:05
End at: 2019-02-05 01:28:35
Local clock offset: 19.876 ms
Remote clock offset: -0.258 ms

Below is generated by plot.py at 2019-02-05 04:19:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 856.55 Mbit/s
95th percentile per-packet one-way delay: 142.844 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 856.55 Mbit/s
95th percentile per-packet one-way delay: 142.844 ms
Loss rate: 0.97%

Run 2: Report of FillP-Sheep — Data Link

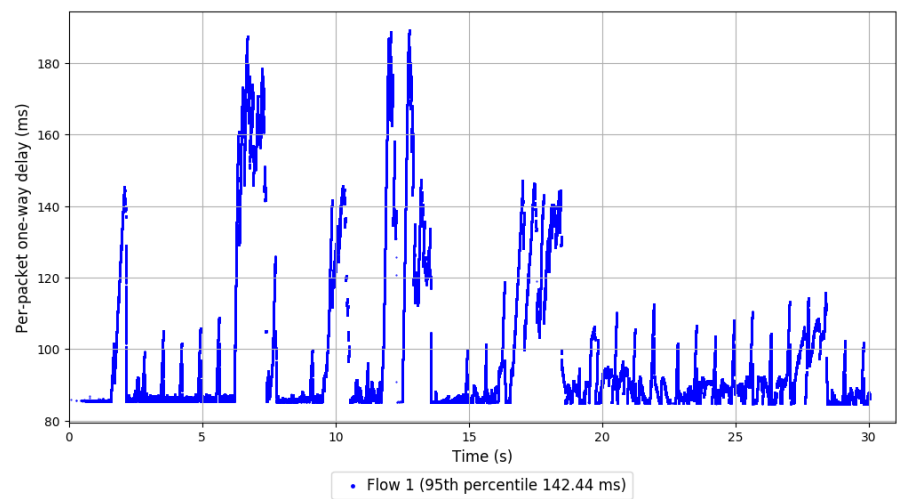
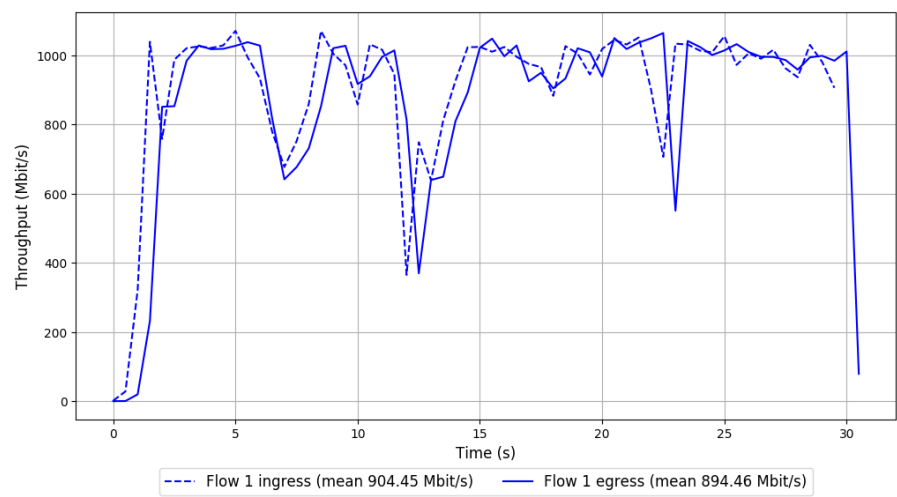


Run 3: Statistics of FillP-Sheep

Start at: 2019-02-05 01:59:23
End at: 2019-02-05 01:59:53
Local clock offset: 24.598 ms
Remote clock offset: -0.481 ms

Below is generated by plot.py at 2019-02-05 04:20:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 894.46 Mbit/s
95th percentile per-packet one-way delay: 142.439 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 894.46 Mbit/s
95th percentile per-packet one-way delay: 142.439 ms
Loss rate: 1.26%

Run 3: Report of FillP-Sheep — Data Link

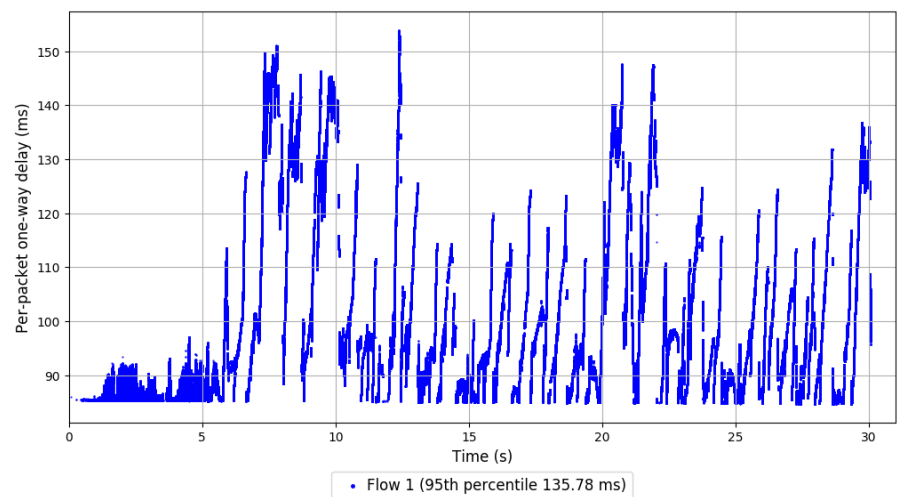
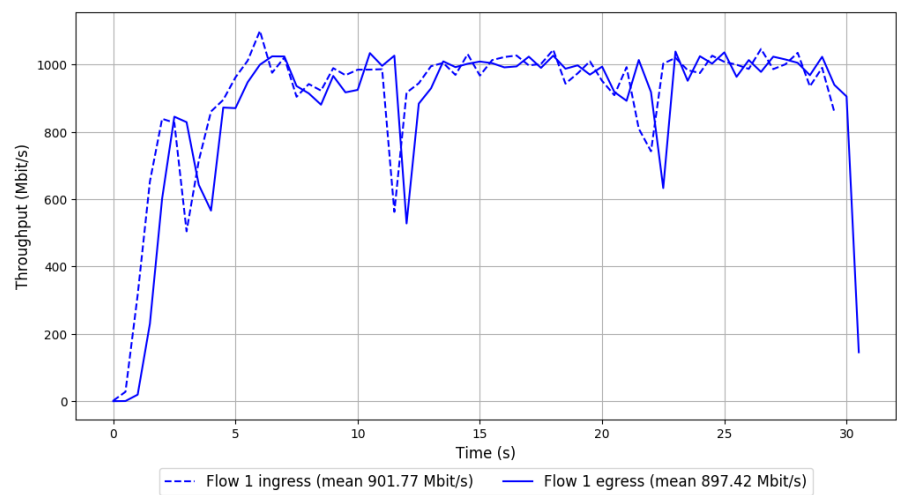


Run 4: Statistics of FillP-Sheep

Start at: 2019-02-05 02:30:29
End at: 2019-02-05 02:30:59
Local clock offset: 16.348 ms
Remote clock offset: -0.502 ms

Below is generated by plot.py at 2019-02-05 04:28:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 897.42 Mbit/s
95th percentile per-packet one-way delay: 135.784 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 897.42 Mbit/s
95th percentile per-packet one-way delay: 135.784 ms
Loss rate: 0.48%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-02-05 03:01:54

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

Local clock offset: 9.371 ms

Remote clock offset: 0.114 ms

Below is generated by plot.py at 2019-02-05 04:41:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 857.99 Mbit/s

95th percentile per-packet one-way delay: 132.951 ms

Loss rate: 0.59%

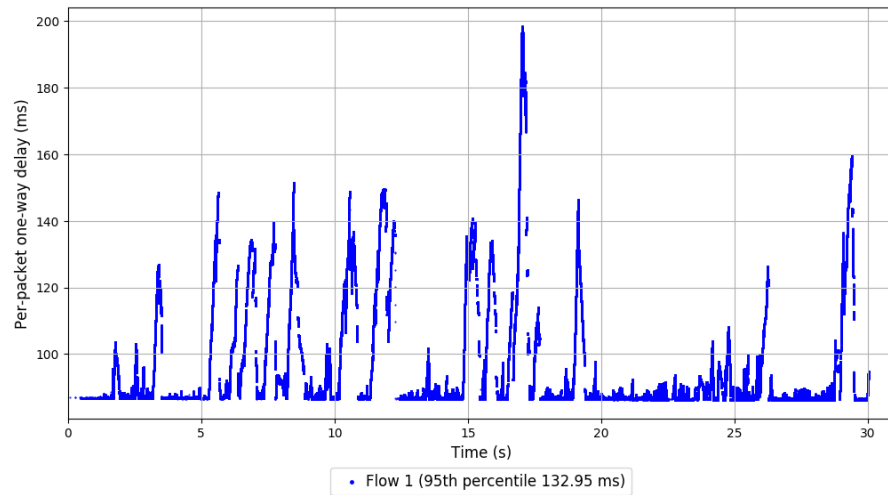
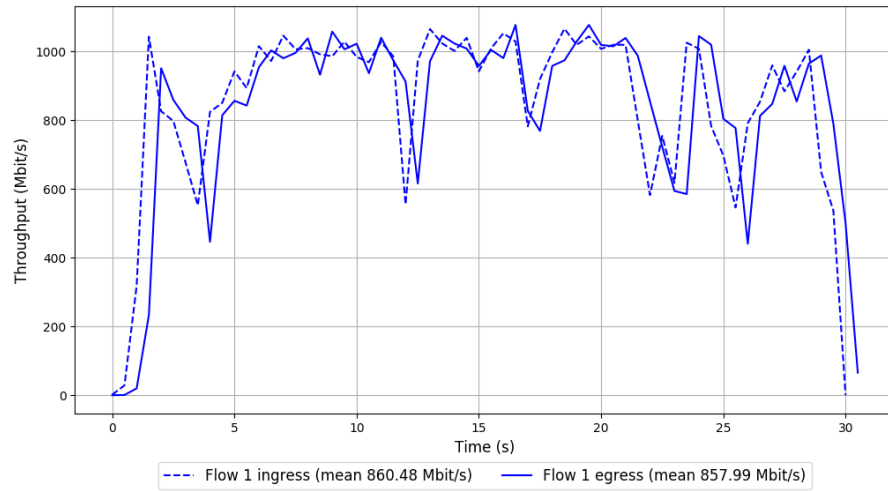
-- Flow 1:

Average throughput: 857.99 Mbit/s

95th percentile per-packet one-way delay: 132.951 ms

Loss rate: 0.59%

Run 5: Report of FillP-Sheep — Data Link

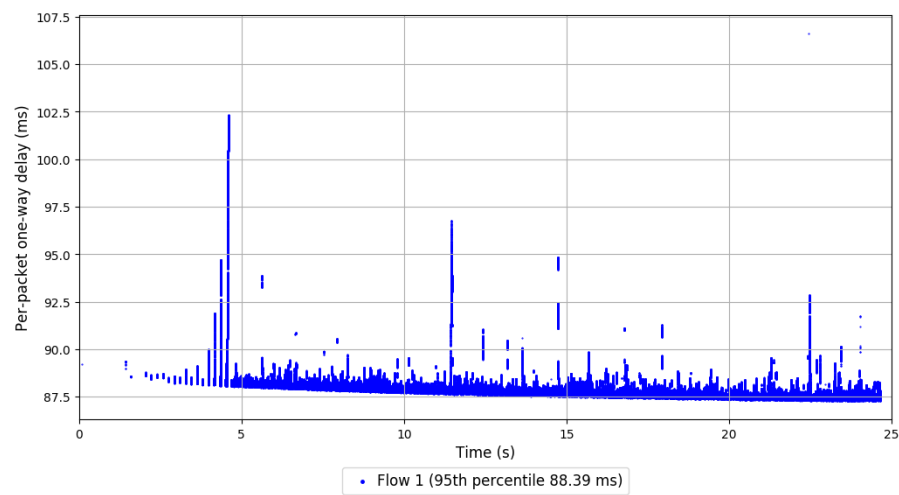
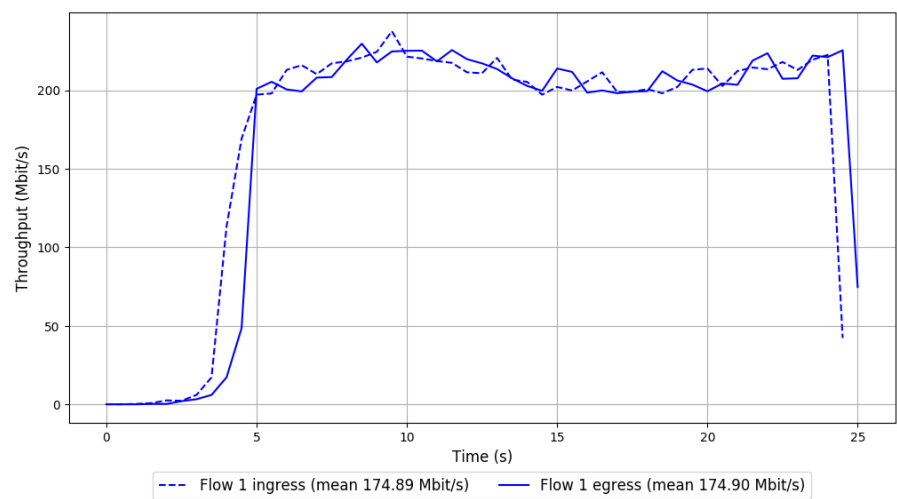


```
Run 1: Statistics of Indigo

Start at: 2019-02-05 00:47:21
End at: 2019-02-05 00:47:51
Local clock offset: 3.058 ms
Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2019-02-05 04:41:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 174.90 Mbit/s
95th percentile per-packet one-way delay: 88.395 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 174.90 Mbit/s
95th percentile per-packet one-way delay: 88.395 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-02-05 01:18:15

End at: 2019-02-05 01:18:45

Local clock offset: 24.763 ms

Remote clock offset: -0.19 ms

Below is generated by plot.py at 2019-02-05 04:41:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.38 Mbit/s

95th percentile per-packet one-way delay: 87.410 ms

Loss rate: 0.00%

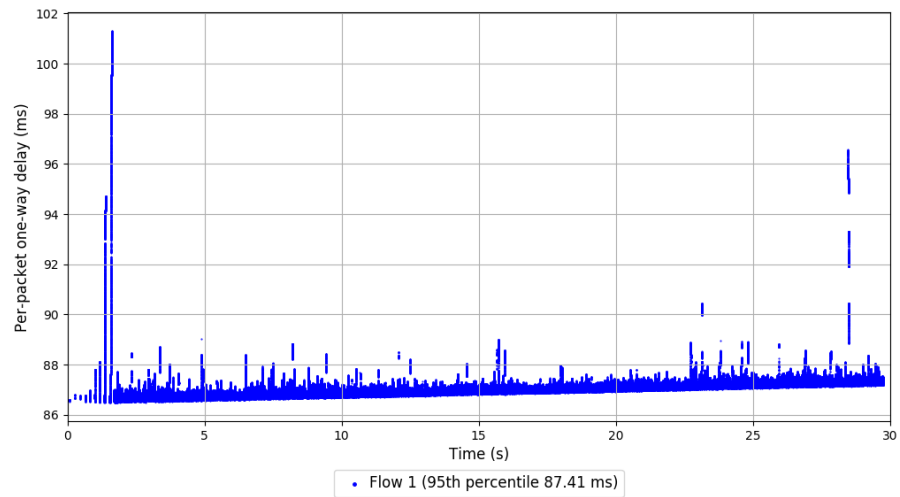
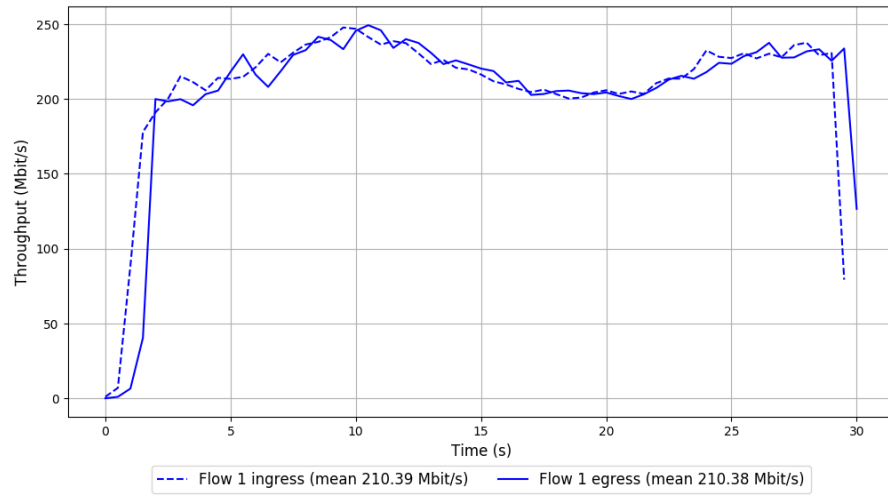
-- Flow 1:

Average throughput: 210.38 Mbit/s

95th percentile per-packet one-way delay: 87.410 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

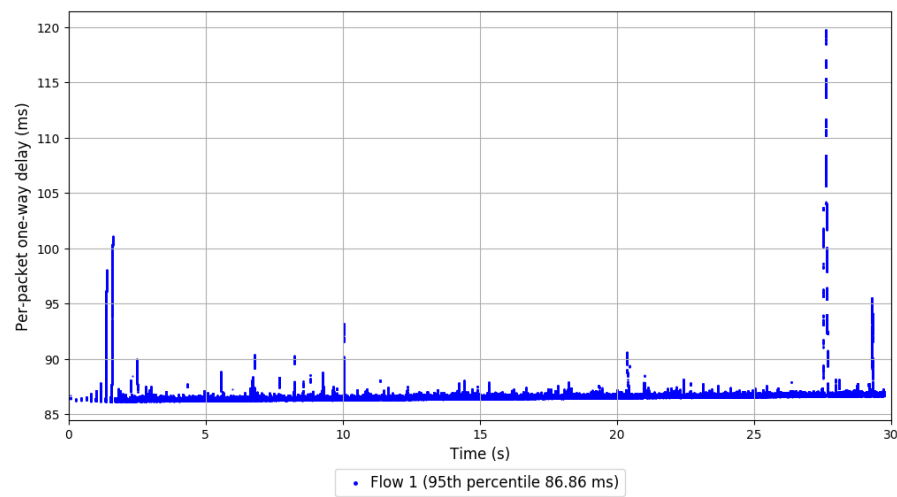
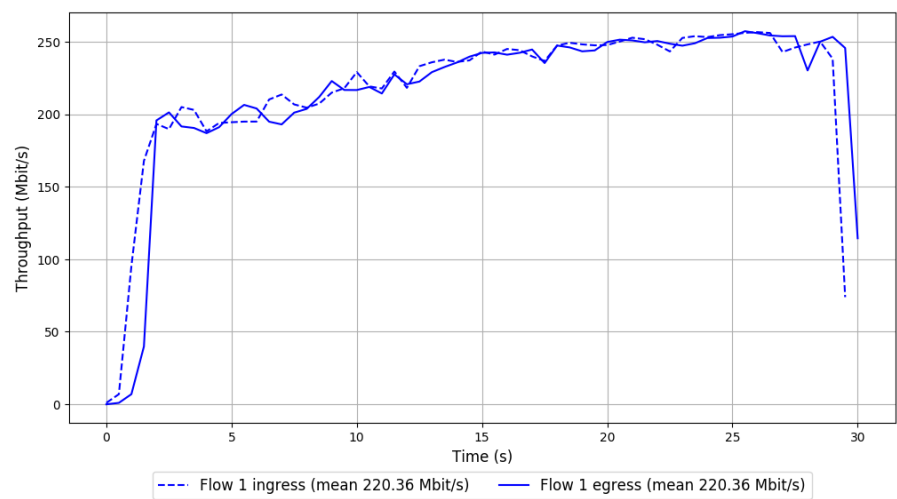


Run 3: Statistics of Indigo

Start at: 2019-02-05 01:49:40
End at: 2019-02-05 01:50:10
Local clock offset: 36.264 ms
Remote clock offset: -0.411 ms

Below is generated by plot.py at 2019-02-05 04:41:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 220.36 Mbit/s
95th percentile per-packet one-way delay: 86.863 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 220.36 Mbit/s
95th percentile per-packet one-way delay: 86.863 ms
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link

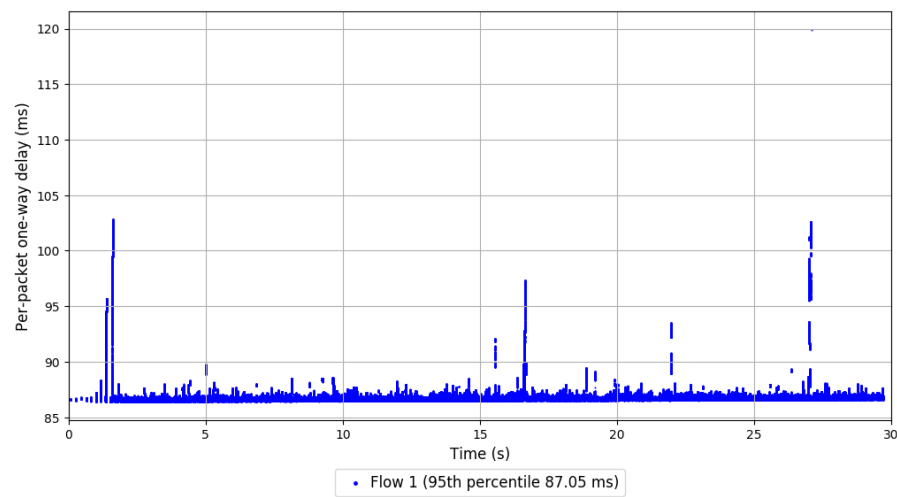
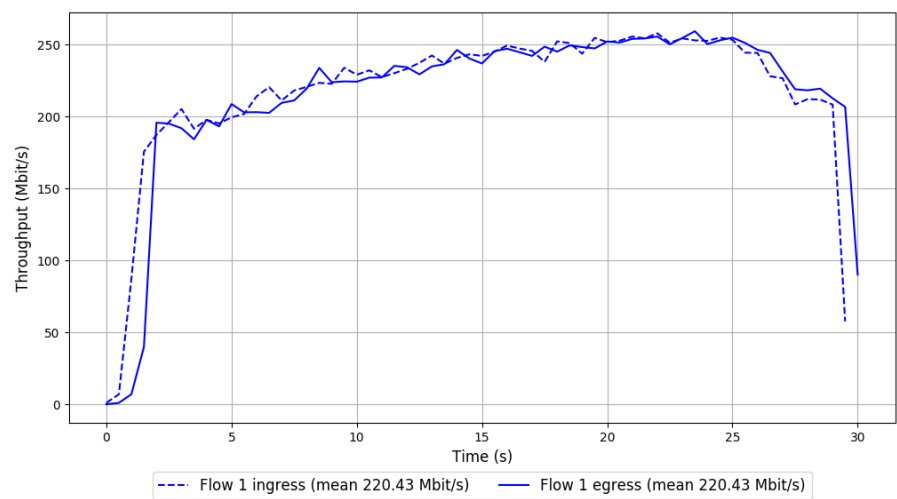


Run 4: Statistics of Indigo

Start at: 2019-02-05 02:20:46
End at: 2019-02-05 02:21:16
Local clock offset: 17.257 ms
Remote clock offset: -0.611 ms

Below is generated by plot.py at 2019-02-05 04:41:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 220.43 Mbit/s
95th percentile per-packet one-way delay: 87.049 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 220.43 Mbit/s
95th percentile per-packet one-way delay: 87.049 ms
Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

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

End at: 2019-02-05 02:52:30

Local clock offset: 7.536 ms

Remote clock offset: 0.054 ms

Below is generated by plot.py at 2019-02-05 04:41:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.21 Mbit/s

95th percentile per-packet one-way delay: 87.309 ms

Loss rate: 0.00%

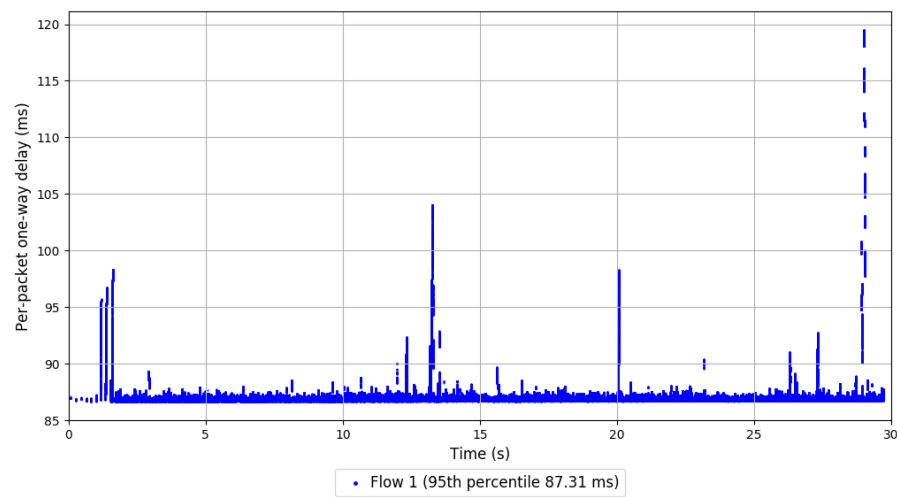
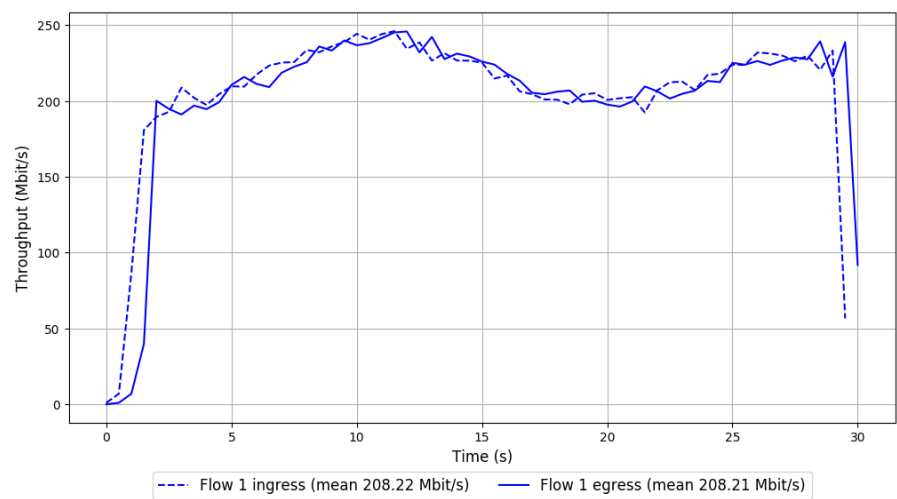
-- Flow 1:

Average throughput: 208.21 Mbit/s

95th percentile per-packet one-way delay: 87.309 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link

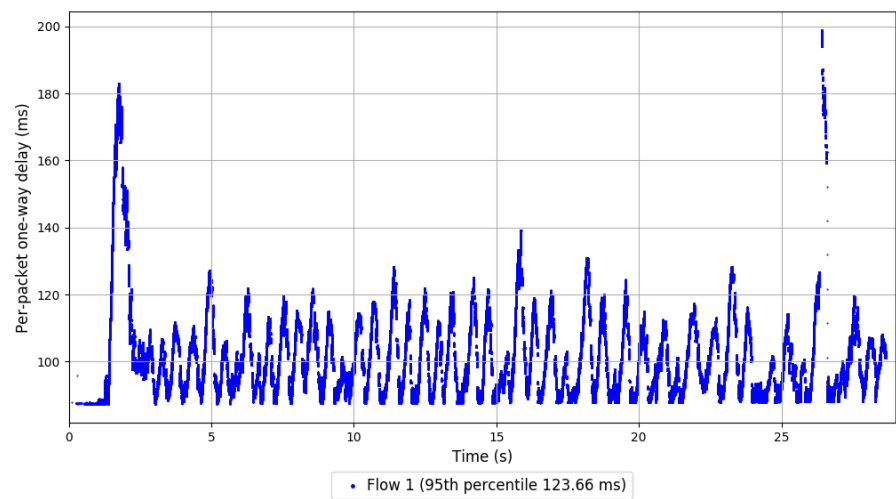
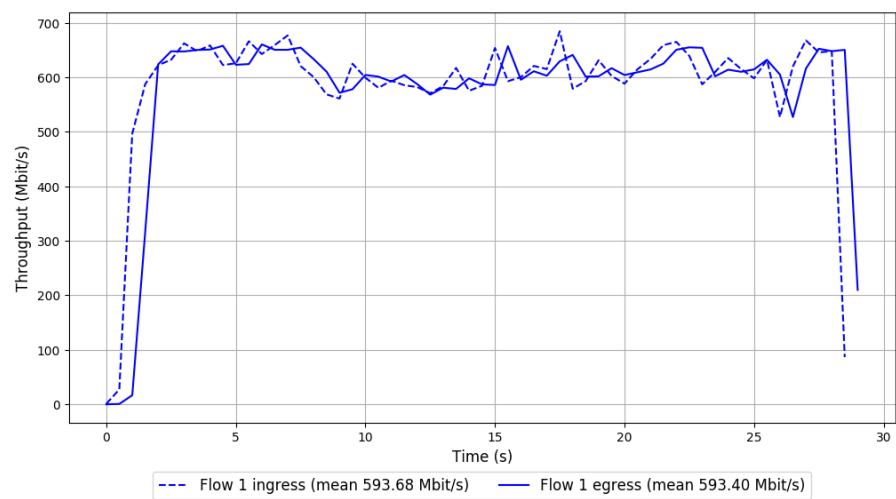


```
Run 1: Statistics of Indigo-MusesC3

Start at: 2019-02-05 00:58:44
End at: 2019-02-05 00:59:14
Local clock offset: 10.686 ms
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2019-02-05 04:41:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 593.40 Mbit/s
95th percentile per-packet one-way delay: 123.658 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 593.40 Mbit/s
95th percentile per-packet one-way delay: 123.658 ms
Loss rate: 0.05%
```

Run 1: Report of Indigo-MusesC3 — Data Link

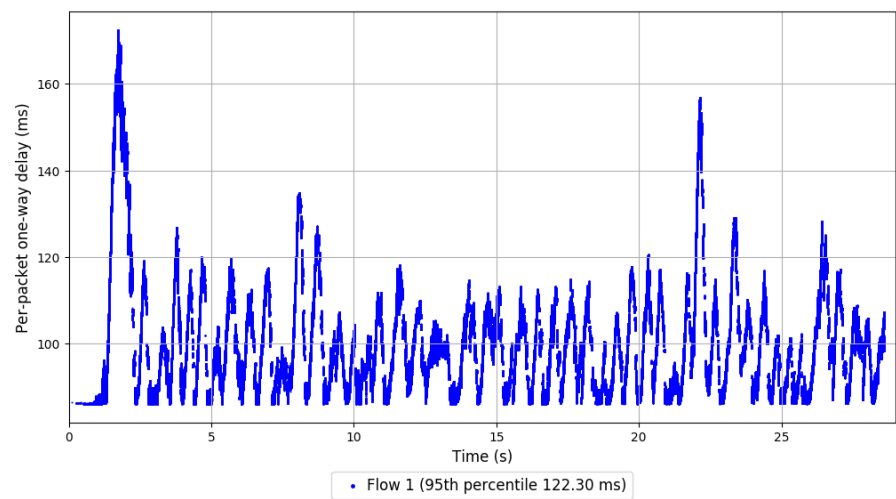
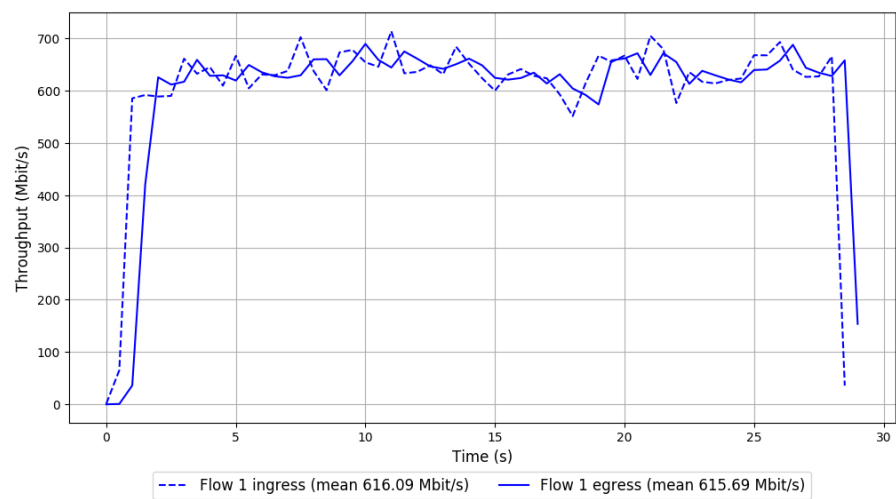


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-02-05 01:29:49
End at: 2019-02-05 01:30:19
Local clock offset: 20.015 ms
Remote clock offset: -0.309 ms

Below is generated by plot.py at 2019-02-05 04:41:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 615.69 Mbit/s
95th percentile per-packet one-way delay: 122.295 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 615.69 Mbit/s
95th percentile per-packet one-way delay: 122.295 ms
Loss rate: 0.05%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

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

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

Local clock offset: 21.767 ms

Remote clock offset: -0.48 ms

Below is generated by plot.py at 2019-02-05 04:41:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 583.79 Mbit/s

95th percentile per-packet one-way delay: 117.569 ms

Loss rate: 0.06%

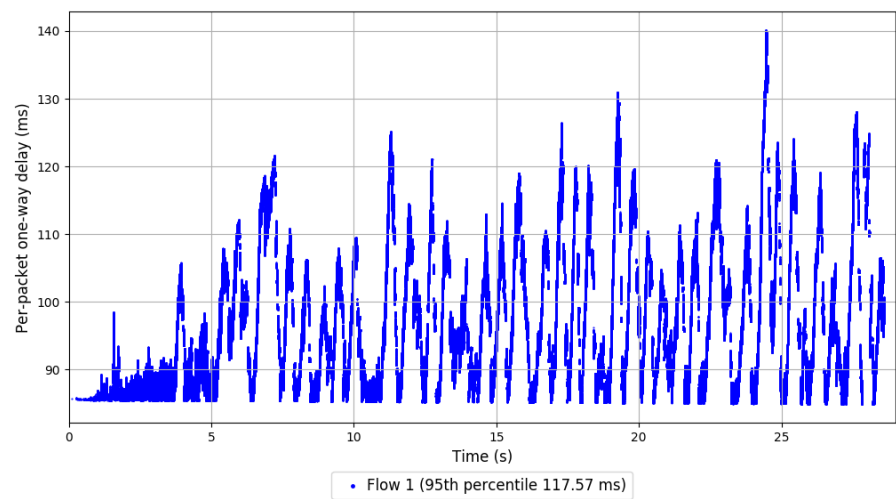
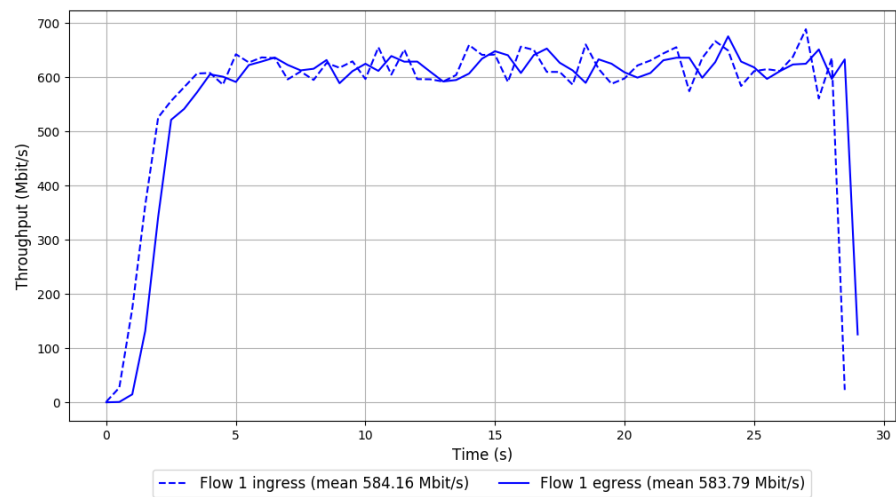
-- Flow 1:

Average throughput: 583.79 Mbit/s

95th percentile per-packet one-way delay: 117.569 ms

Loss rate: 0.06%

Run 3: Report of Indigo-MusesC3 — Data Link

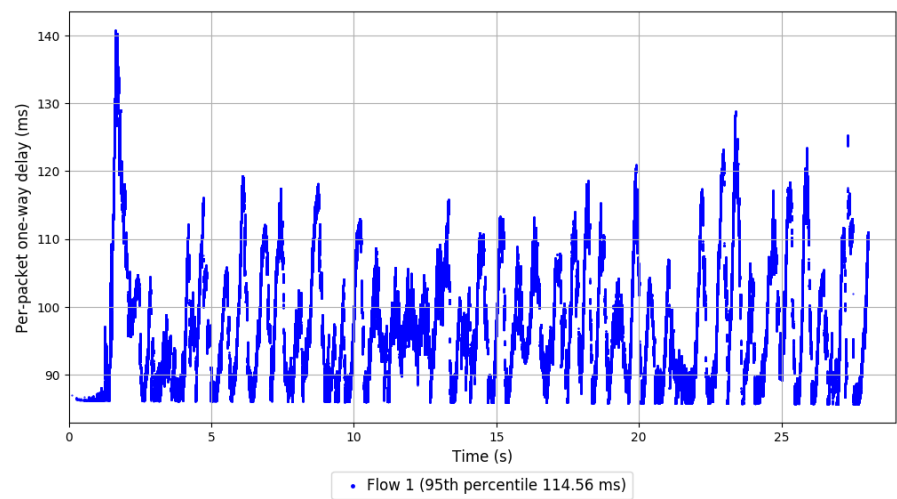
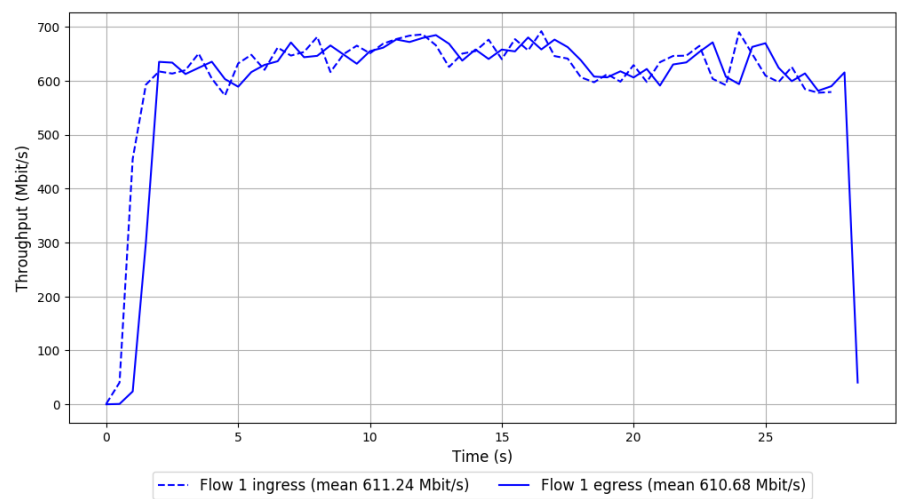


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-02-05 02:32:15
End at: 2019-02-05 02:32:45
Local clock offset: 13.482 ms
Remote clock offset: -0.396 ms

Below is generated by plot.py at 2019-02-05 04:41:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 610.68 Mbit/s
95th percentile per-packet one-way delay: 114.557 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 610.68 Mbit/s
95th percentile per-packet one-way delay: 114.557 ms
Loss rate: 0.09%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-02-05 03:03:39

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

Local clock offset: 8.362 ms

Remote clock offset: 0.092 ms

Below is generated by plot.py at 2019-02-05 04:42:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 614.87 Mbit/s

95th percentile per-packet one-way delay: 122.330 ms

Loss rate: 0.03%

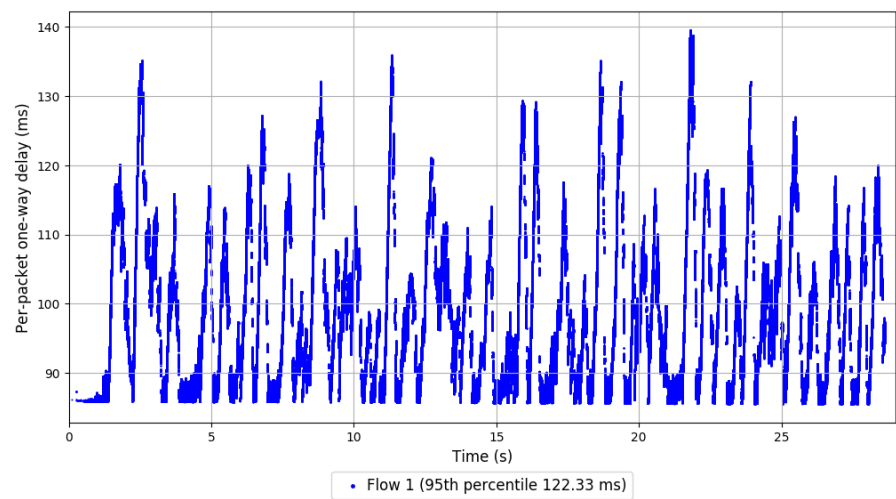
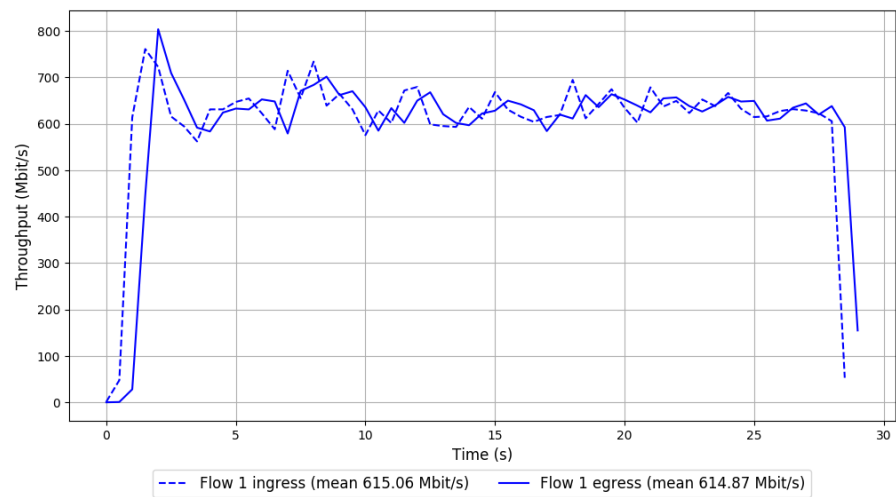
-- Flow 1:

Average throughput: 614.87 Mbit/s

95th percentile per-packet one-way delay: 122.330 ms

Loss rate: 0.03%

Run 5: Report of Indigo-MusesC3 — Data Link

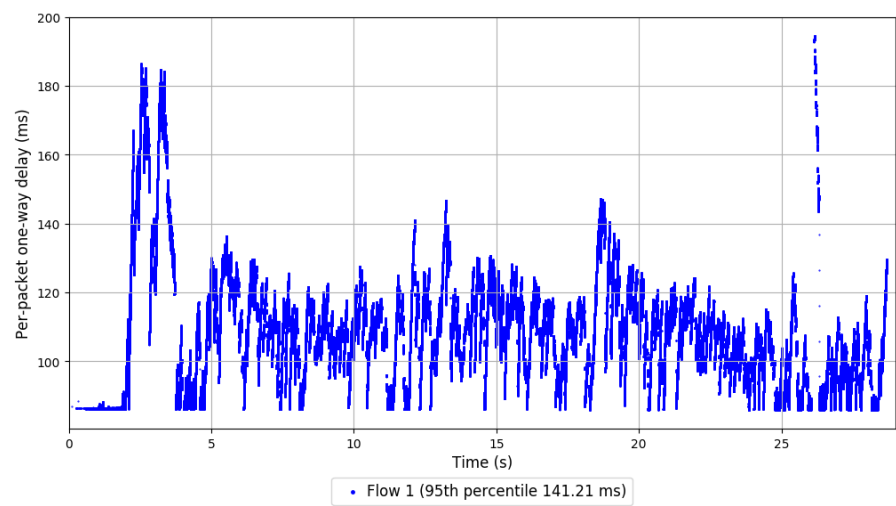
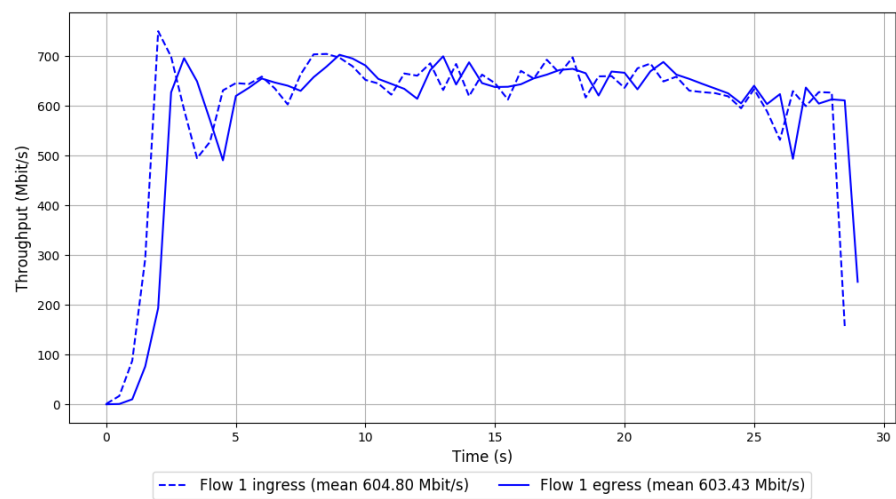


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-02-05 01:04:40
End at: 2019-02-05 01:05:10
Local clock offset: 14.287 ms
Remote clock offset: -0.077 ms

Below is generated by plot.py at 2019-02-05 04:42:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 603.43 Mbit/s
95th percentile per-packet one-way delay: 141.208 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 603.43 Mbit/s
95th percentile per-packet one-way delay: 141.208 ms
Loss rate: 0.23%

Run 1: Report of Indigo-MusesC5 — Data Link

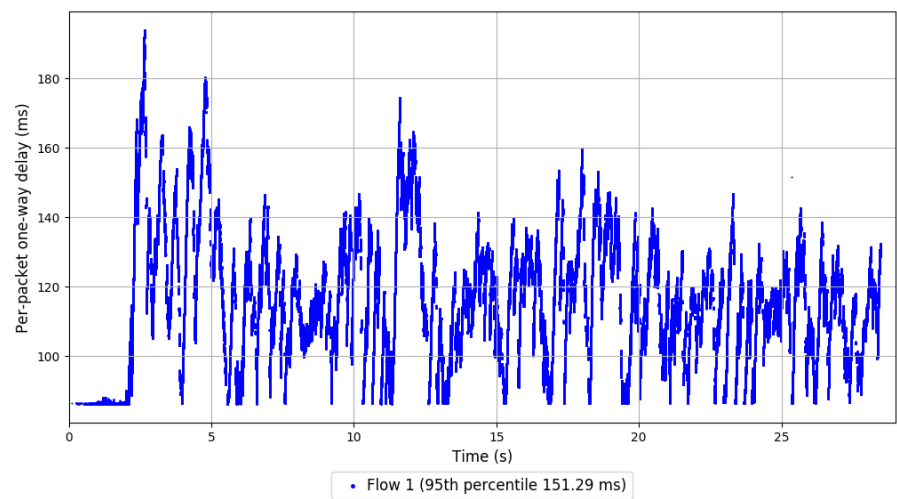
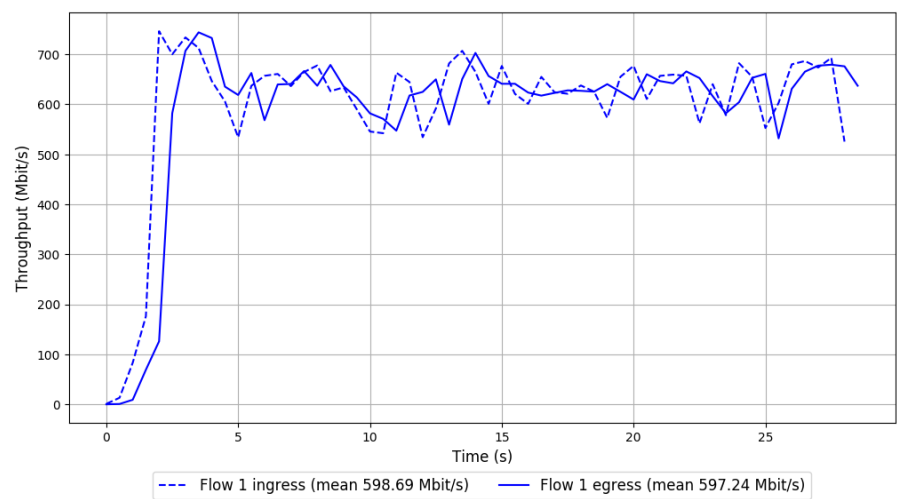


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-02-05 01:35:44
End at: 2019-02-05 01:36:14
Local clock offset: 22.948 ms
Remote clock offset: -0.297 ms

Below is generated by plot.py at 2019-02-05 04:42:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 597.24 Mbit/s
95th percentile per-packet one-way delay: 151.290 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 597.24 Mbit/s
95th percentile per-packet one-way delay: 151.290 ms
Loss rate: 0.24%

Run 2: Report of Indigo-MusesC5 — Data Link

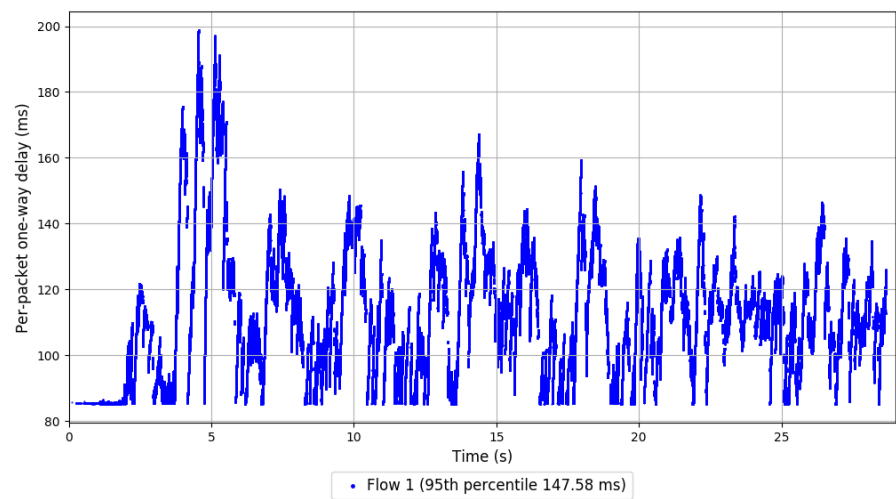
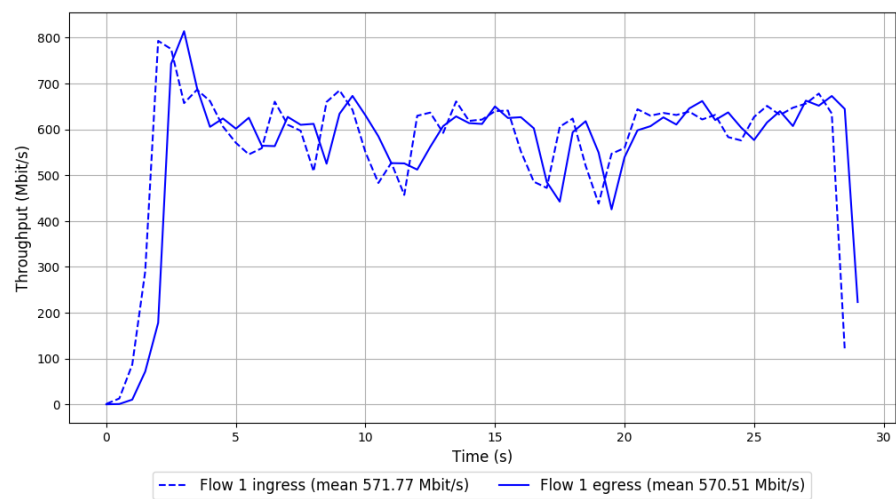


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-02-05 02:07:01
End at: 2019-02-05 02:07:31
Local clock offset: 16.758 ms
Remote clock offset: -0.514 ms

Below is generated by plot.py at 2019-02-05 04:45:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 570.51 Mbit/s
95th percentile per-packet one-way delay: 147.583 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 570.51 Mbit/s
95th percentile per-packet one-way delay: 147.583 ms
Loss rate: 0.22%

Run 3: Report of Indigo-MusesC5 — Data Link

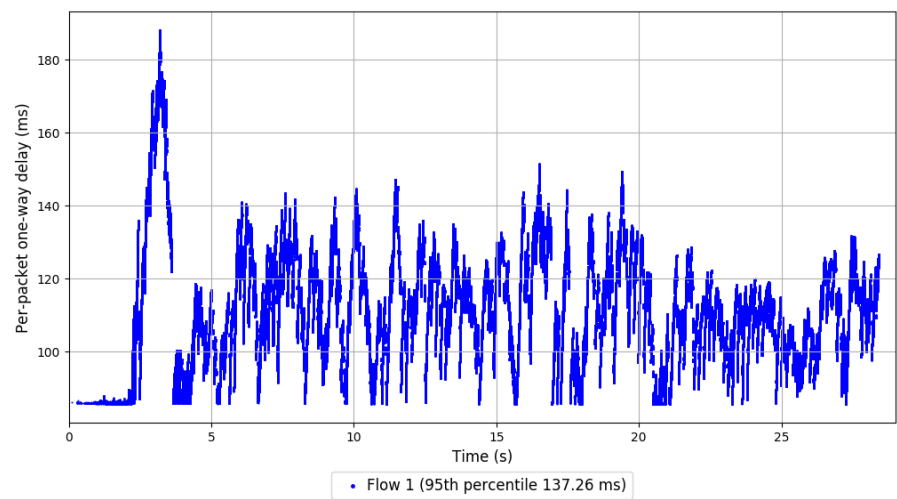
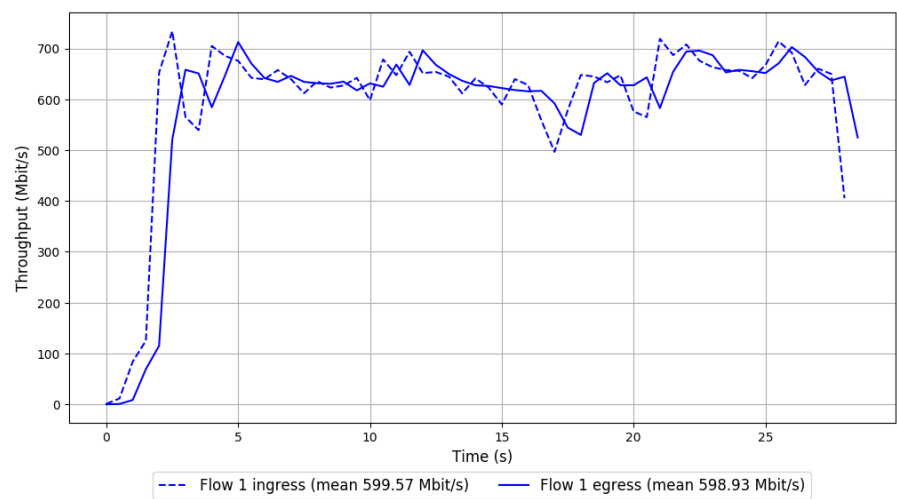


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-02-05 02:38:12
End at: 2019-02-05 02:38:42
Local clock offset: 9.077 ms
Remote clock offset: -0.207 ms

Below is generated by plot.py at 2019-02-05 04:51:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 598.93 Mbit/s
95th percentile per-packet one-way delay: 137.256 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 598.93 Mbit/s
95th percentile per-packet one-way delay: 137.256 ms
Loss rate: 0.11%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-02-05 03:09:35

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

Local clock offset: 4.804 ms

Remote clock offset: 0.083 ms

Below is generated by plot.py at 2019-02-05 04:53:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 586.55 Mbit/s

95th percentile per-packet one-way delay: 139.654 ms

Loss rate: 0.16%

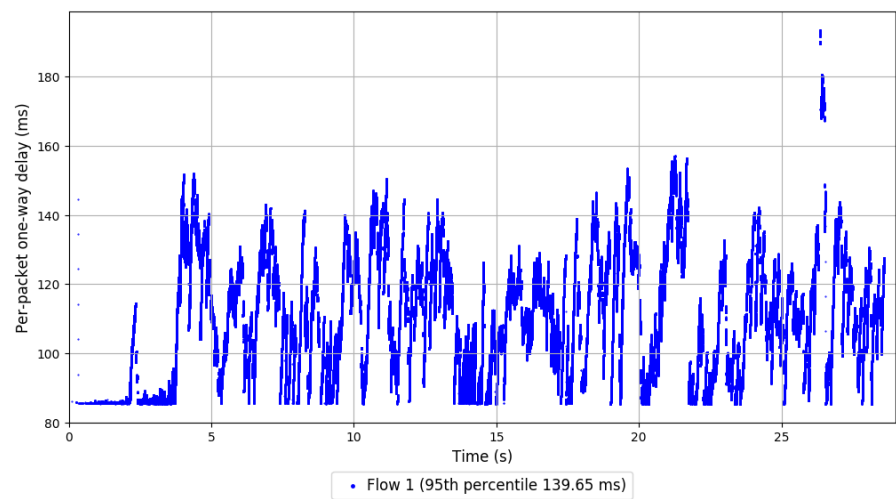
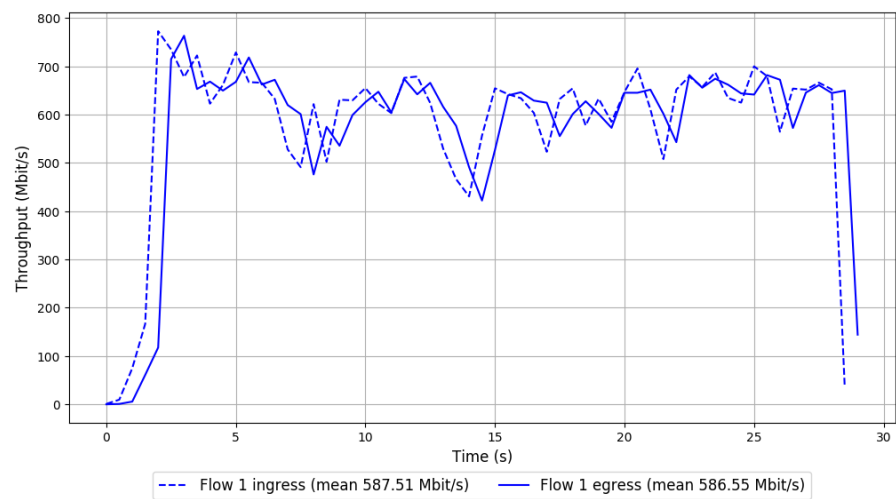
-- Flow 1:

Average throughput: 586.55 Mbit/s

95th percentile per-packet one-way delay: 139.654 ms

Loss rate: 0.16%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-02-05 01:09:18

End at: 2019-02-05 01:09:48

Local clock offset: 14.405 ms

Remote clock offset: -0.119 ms

Below is generated by plot.py at 2019-02-05 04:53:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 571.75 Mbit/s

95th percentile per-packet one-way delay: 157.387 ms

Loss rate: 0.00%

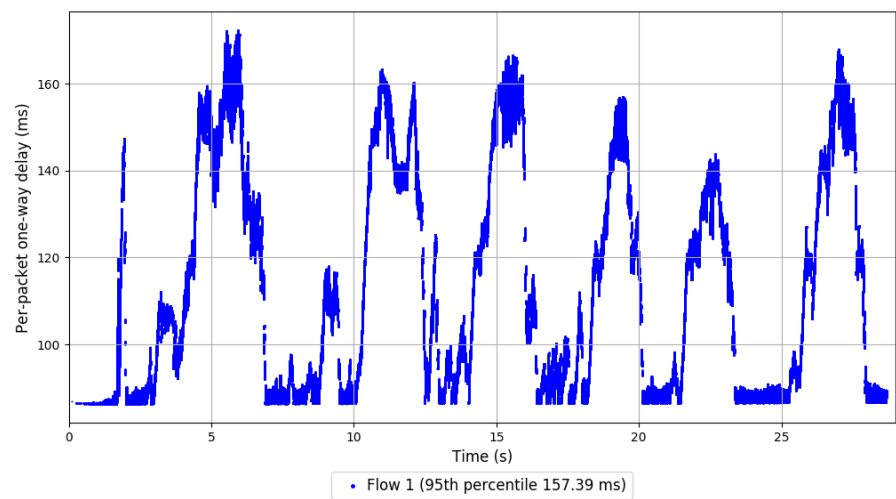
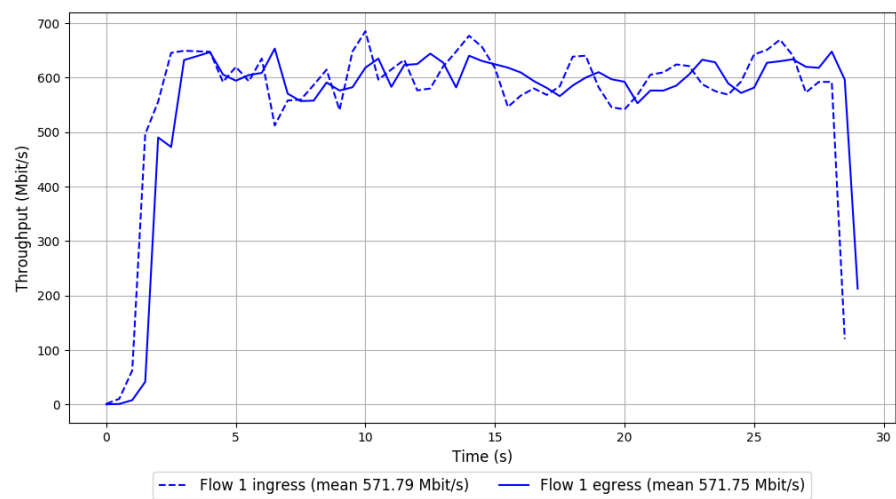
-- Flow 1:

Average throughput: 571.75 Mbit/s

95th percentile per-packet one-way delay: 157.387 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-02-05 01:40:23

End at: 2019-02-05 01:40:53

Local clock offset: 26.696 ms

Remote clock offset: -0.335 ms

Below is generated by plot.py at 2019-02-05 04:53:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 536.47 Mbit/s

95th percentile per-packet one-way delay: 148.120 ms

Loss rate: 0.00%

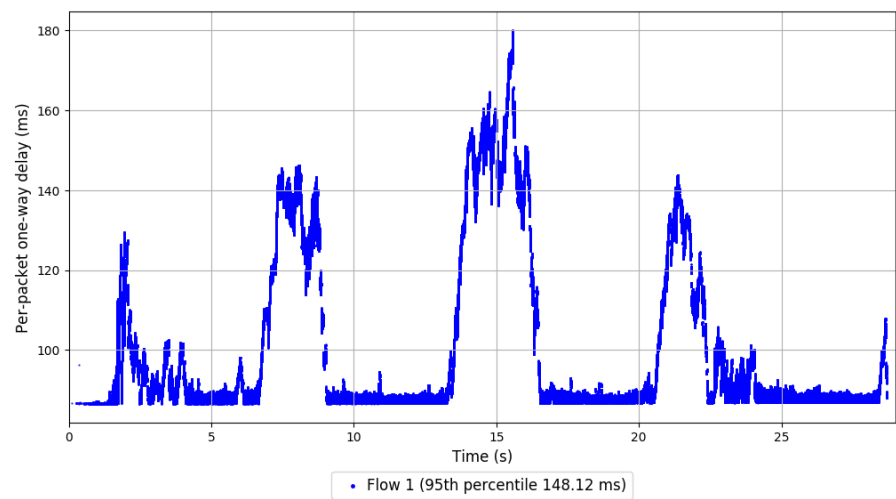
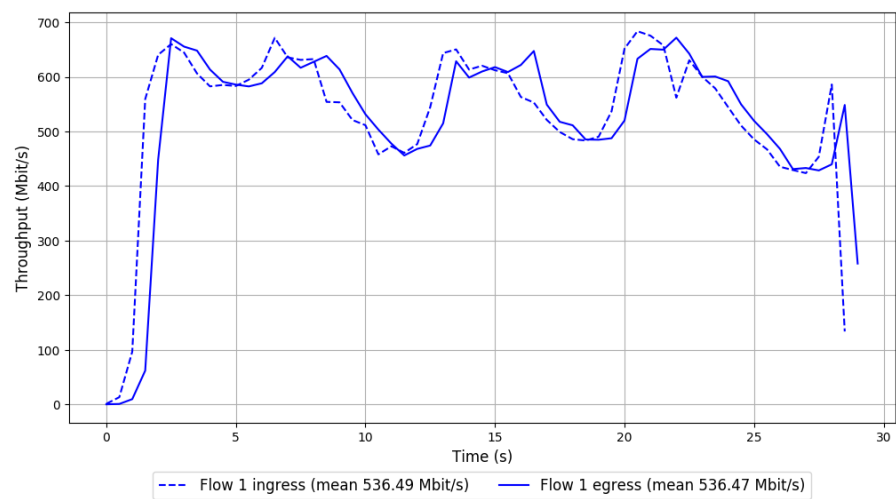
-- Flow 1:

Average throughput: 536.47 Mbit/s

95th percentile per-packet one-way delay: 148.120 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-02-05 02:11:34

End at: 2019-02-05 02:12:04

Local clock offset: 15.707 ms

Remote clock offset: -0.548 ms

Below is generated by plot.py at 2019-02-05 04:53:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 506.30 Mbit/s

95th percentile per-packet one-way delay: 158.897 ms

Loss rate: 0.00%

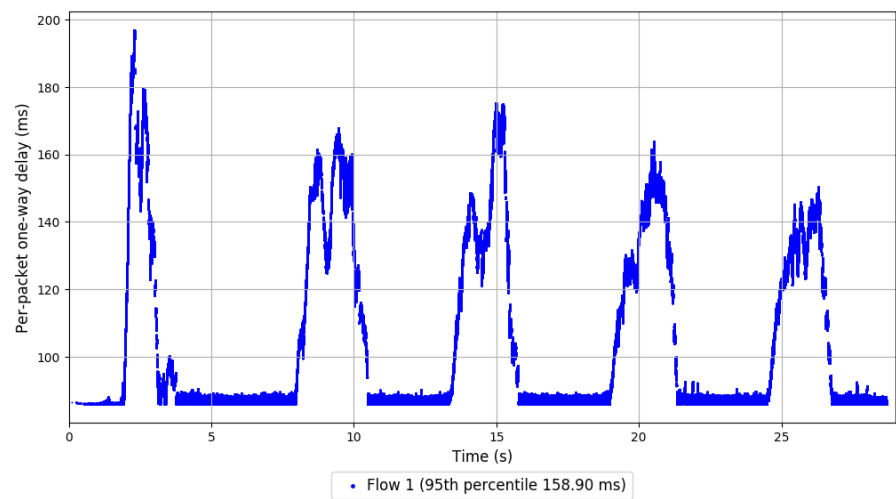
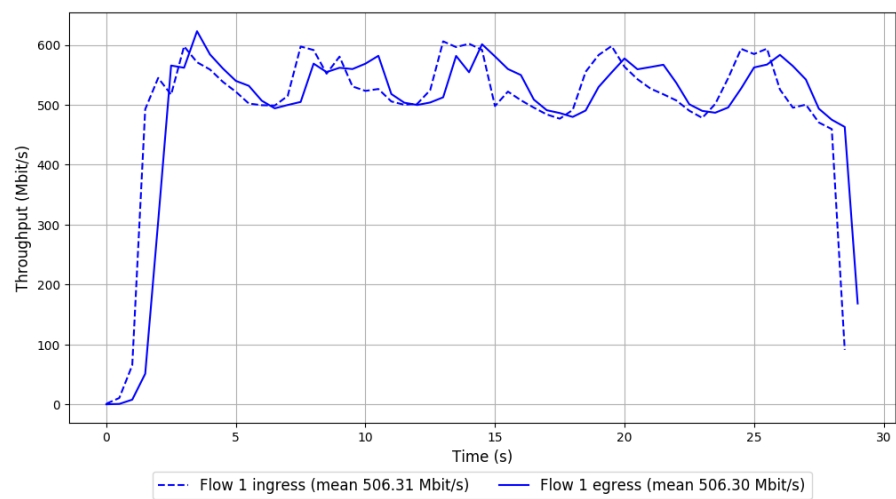
-- Flow 1:

Average throughput: 506.30 Mbit/s

95th percentile per-packet one-way delay: 158.897 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-02-05 02:42:52

End at: 2019-02-05 02:43:22

Local clock offset: 8.044 ms

Remote clock offset: -0.069 ms

Below is generated by plot.py at 2019-02-05 04:54:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 542.42 Mbit/s

95th percentile per-packet one-way delay: 152.163 ms

Loss rate: 0.14%

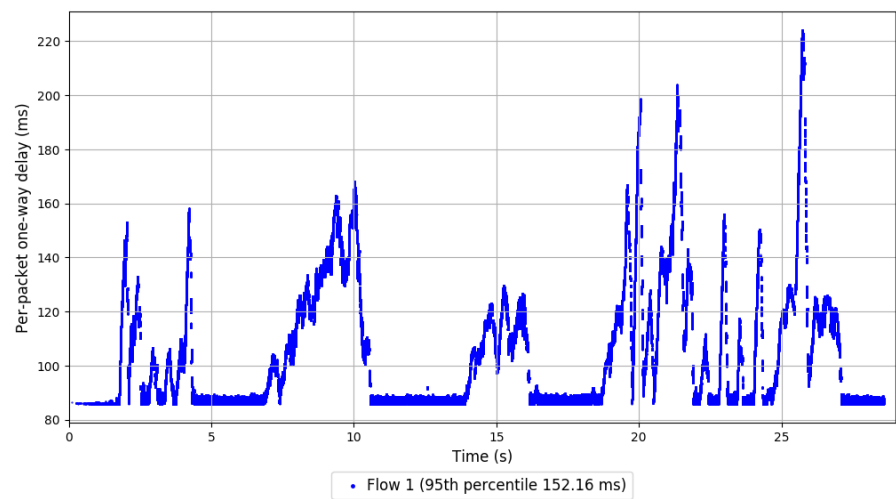
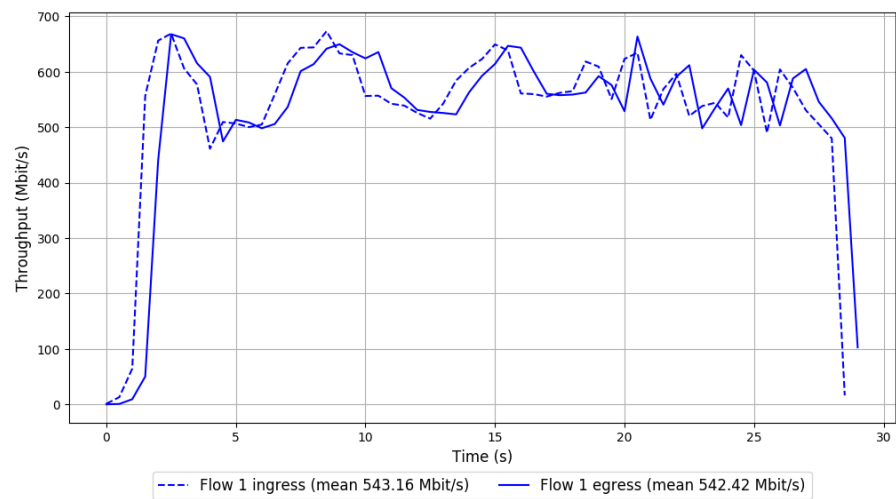
-- Flow 1:

Average throughput: 542.42 Mbit/s

95th percentile per-packet one-way delay: 152.163 ms

Loss rate: 0.14%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-02-05 03:14:13

End at: 2019-02-05 03:14:43

Local clock offset: 3.381 ms

Remote clock offset: 0.077 ms

Below is generated by plot.py at 2019-02-05 04:54:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 510.97 Mbit/s

95th percentile per-packet one-way delay: 149.966 ms

Loss rate: 0.22%

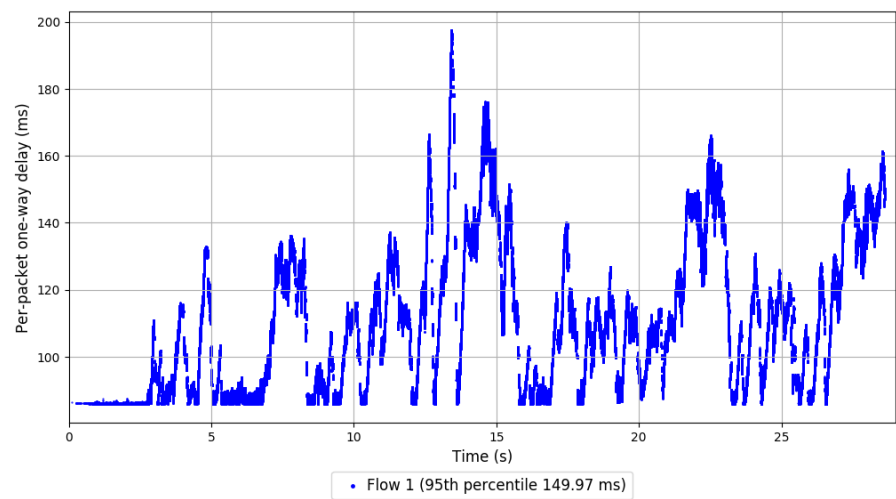
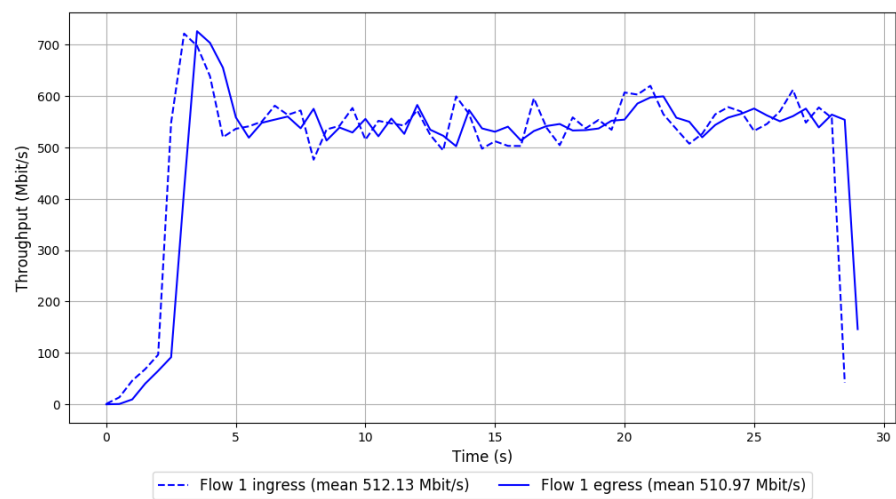
-- Flow 1:

Average throughput: 510.97 Mbit/s

95th percentile per-packet one-way delay: 149.966 ms

Loss rate: 0.22%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-02-05 00:48:45

End at: 2019-02-05 00:49:15

Local clock offset: 4.527 ms

Remote clock offset: -0.089 ms

Below is generated by plot.py at 2019-02-05 04:58:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 613.83 Mbit/s

95th percentile per-packet one-way delay: 173.034 ms

Loss rate: 0.57%

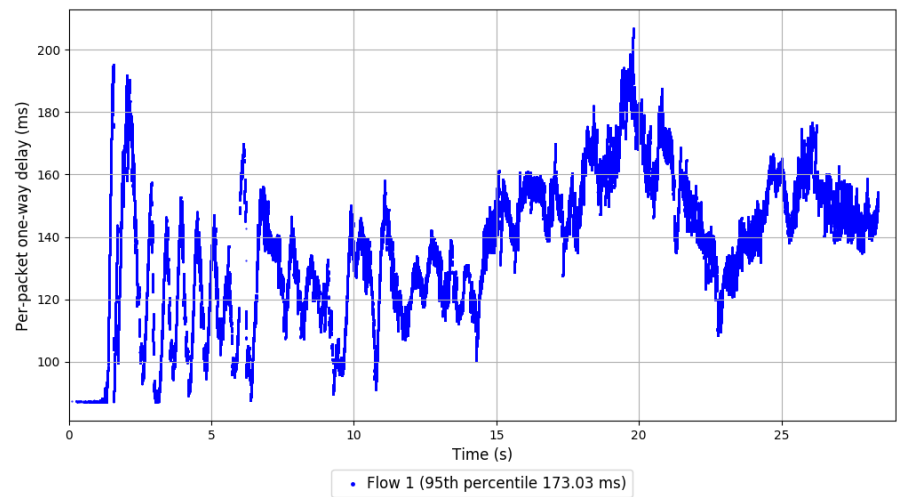
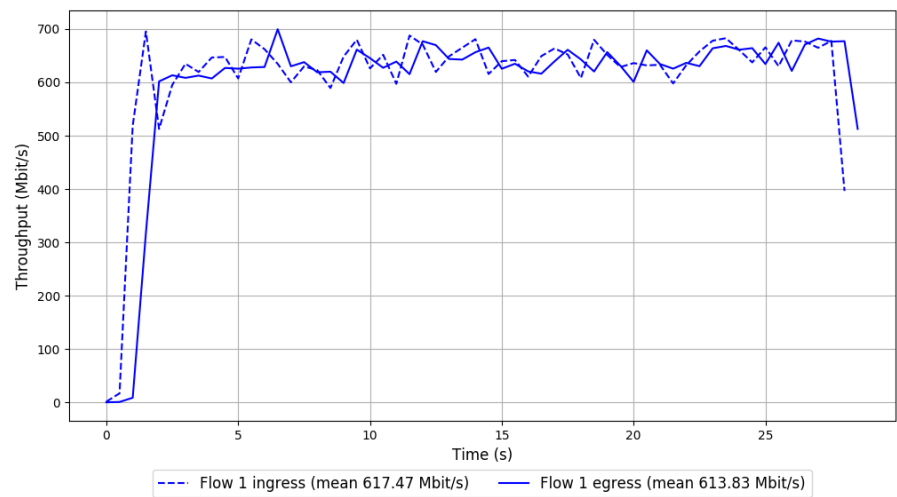
-- Flow 1:

Average throughput: 613.83 Mbit/s

95th percentile per-packet one-way delay: 173.034 ms

Loss rate: 0.57%

Run 1: Report of Indigo-MusesT — Data Link

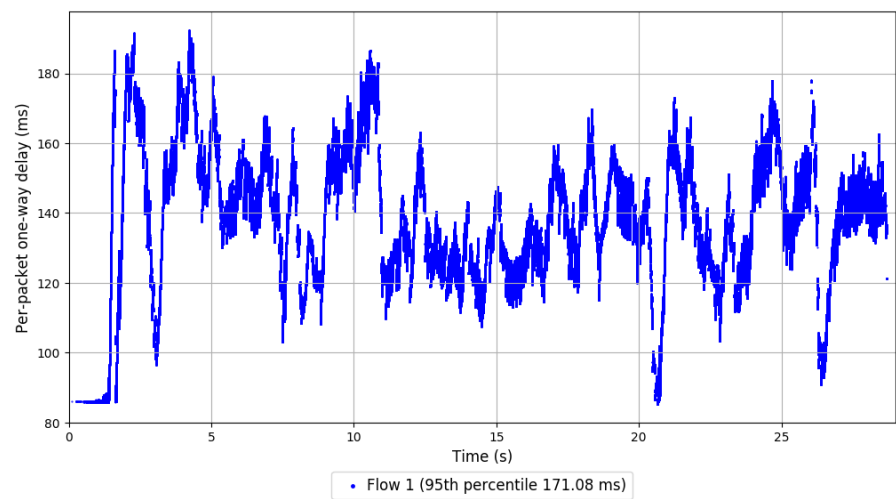
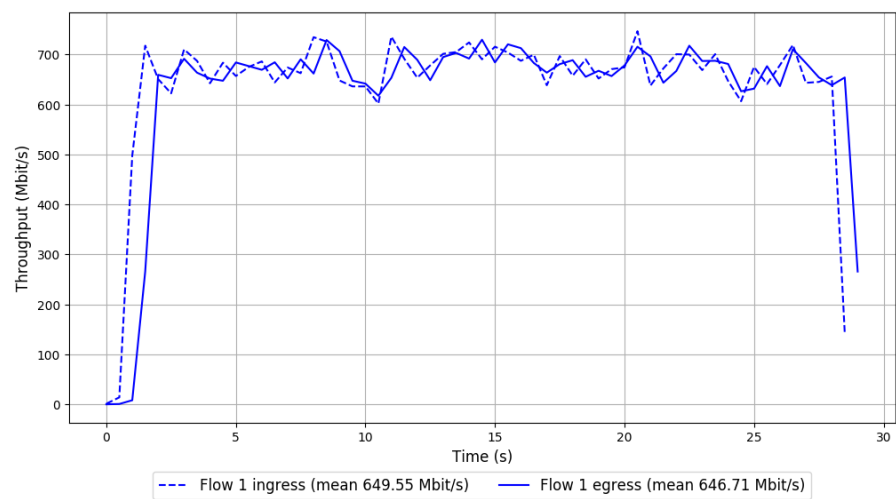


Run 2: Statistics of Indigo-MusesT

Start at: 2019-02-05 01:19:44
End at: 2019-02-05 01:20:14
Local clock offset: 26.745 ms
Remote clock offset: -0.198 ms

Below is generated by plot.py at 2019-02-05 05:04:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 646.71 Mbit/s
95th percentile per-packet one-way delay: 171.080 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 646.71 Mbit/s
95th percentile per-packet one-way delay: 171.080 ms
Loss rate: 0.44%

Run 2: Report of Indigo-MusesT — Data Link

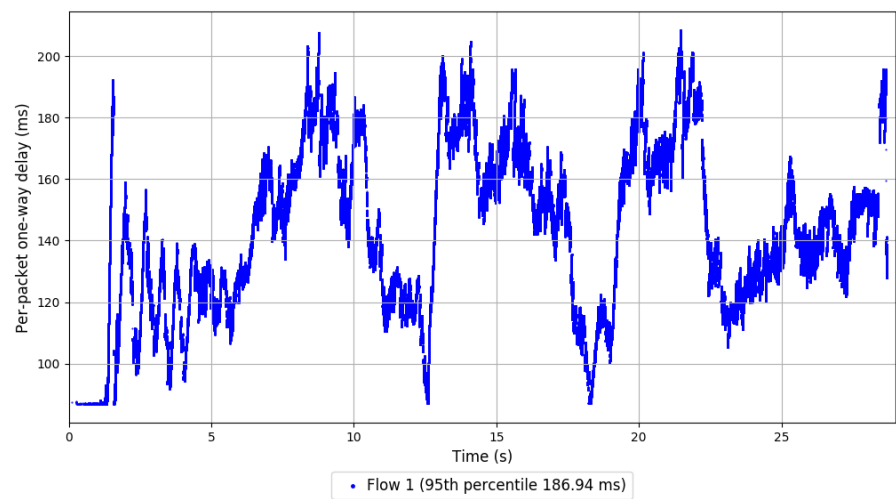
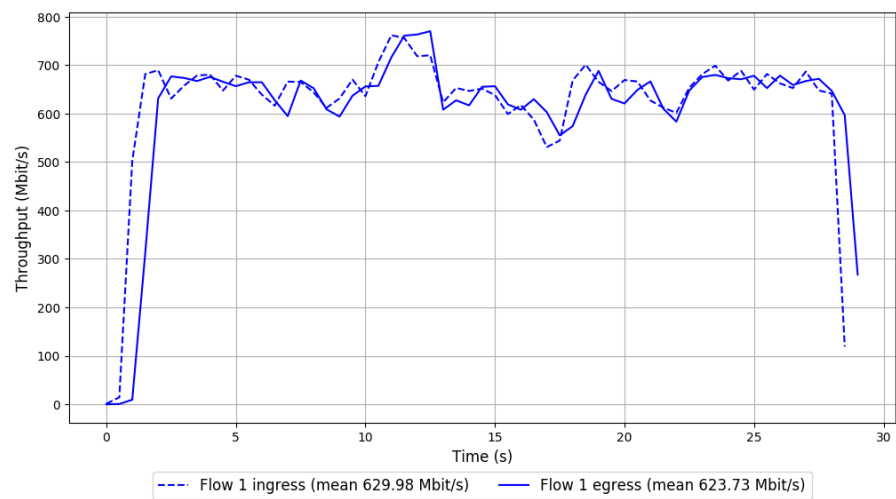


Run 3: Statistics of Indigo-MusesT

Start at: 2019-02-05 01:51:11
End at: 2019-02-05 01:51:41
Local clock offset: 37.297 ms
Remote clock offset: -0.422 ms

Below is generated by plot.py at 2019-02-05 05:07:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 623.73 Mbit/s
95th percentile per-packet one-way delay: 186.939 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 623.73 Mbit/s
95th percentile per-packet one-way delay: 186.939 ms
Loss rate: 0.96%

Run 3: Report of Indigo-MusesT — Data Link

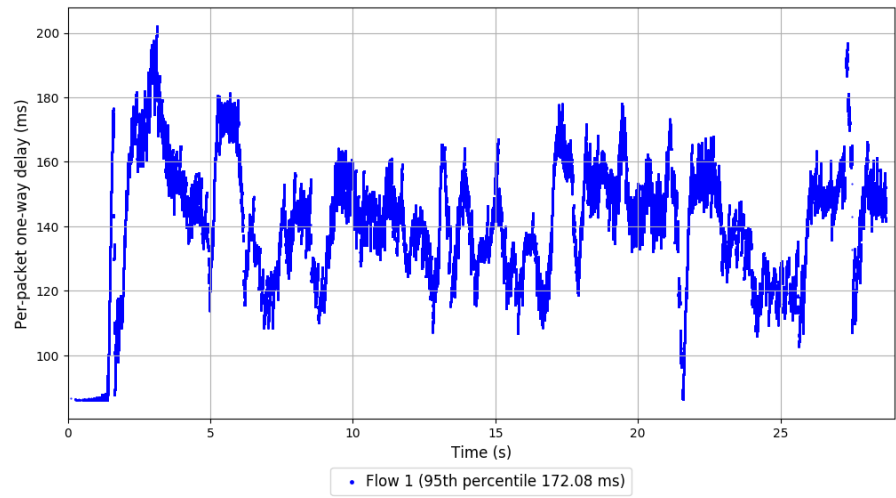
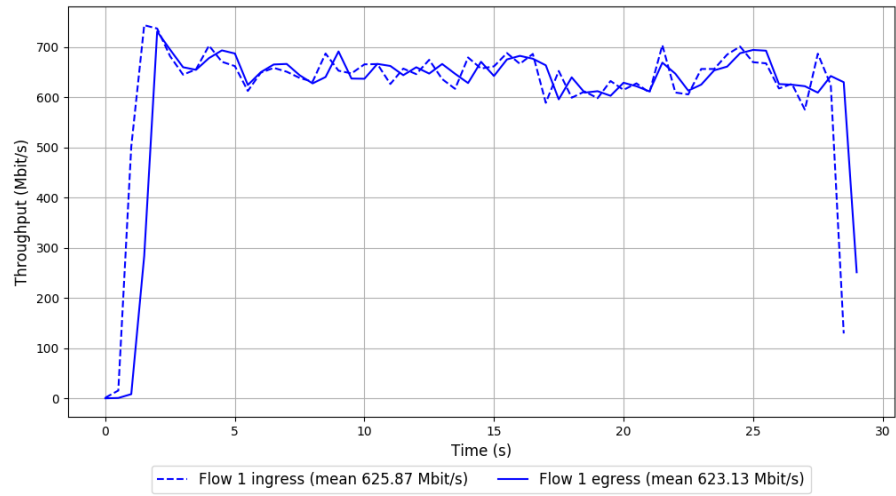


Run 4: Statistics of Indigo-MusesT

Start at: 2019-02-05 02:22:17
End at: 2019-02-05 02:22:47
Local clock offset: 18.117 ms
Remote clock offset: -0.612 ms

Below is generated by plot.py at 2019-02-05 05:07:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 623.13 Mbit/s
95th percentile per-packet one-way delay: 172.083 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 623.13 Mbit/s
95th percentile per-packet one-way delay: 172.083 ms
Loss rate: 0.40%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-02-05 02:53:34

End at: 2019-02-05 02:54:04

Local clock offset: 7.635 ms

Remote clock offset: 0.038 ms

Below is generated by plot.py at 2019-02-05 05:07:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 640.99 Mbit/s

95th percentile per-packet one-way delay: 166.481 ms

Loss rate: 0.52%

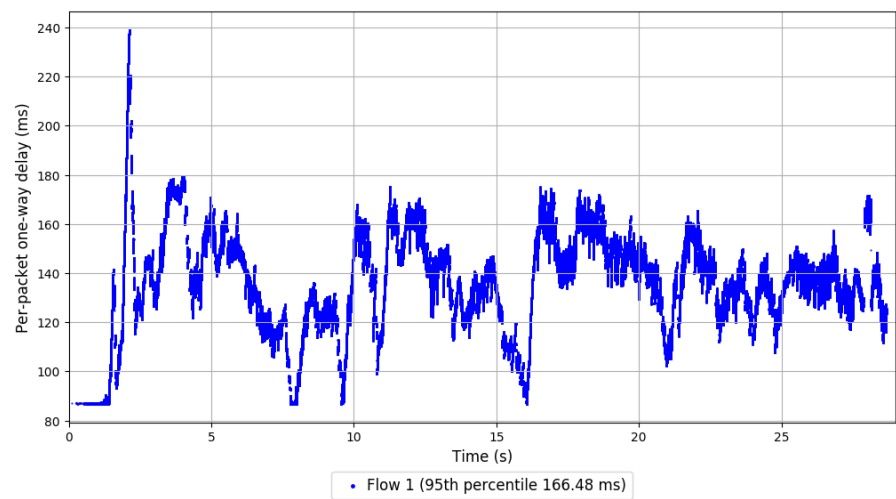
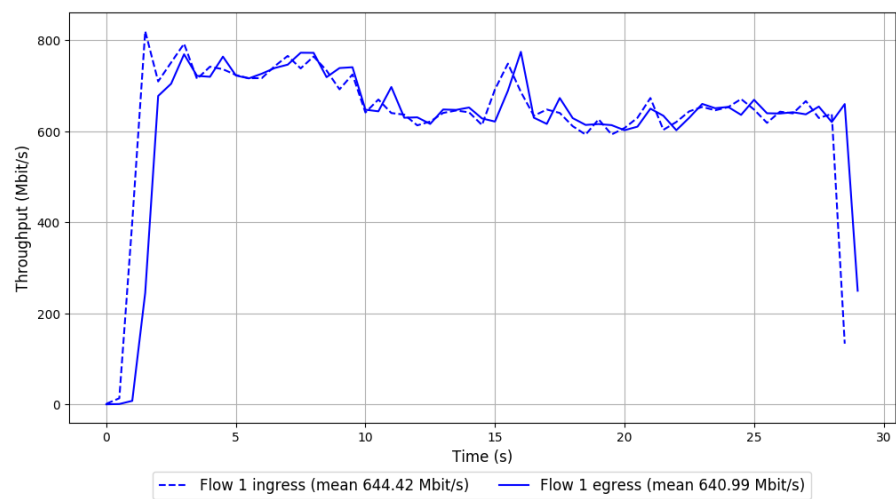
-- Flow 1:

Average throughput: 640.99 Mbit/s

95th percentile per-packet one-way delay: 166.481 ms

Loss rate: 0.52%

Run 5: Report of Indigo-MusesT — Data Link

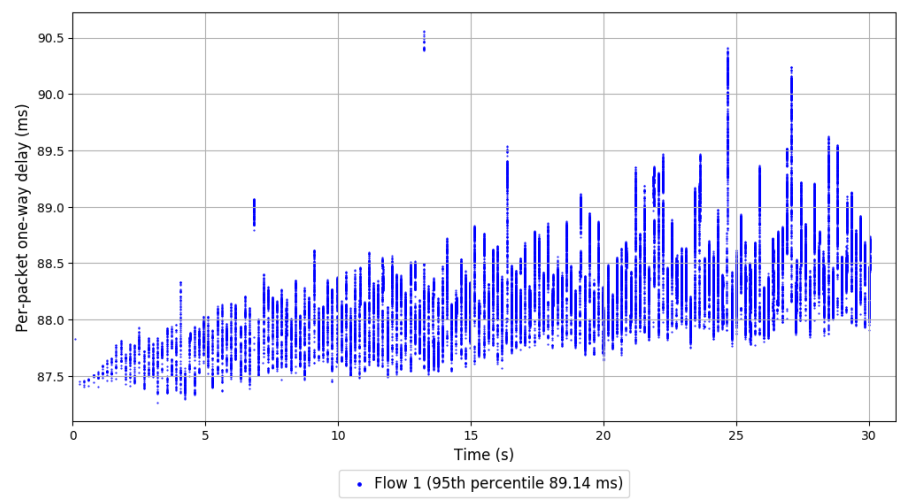
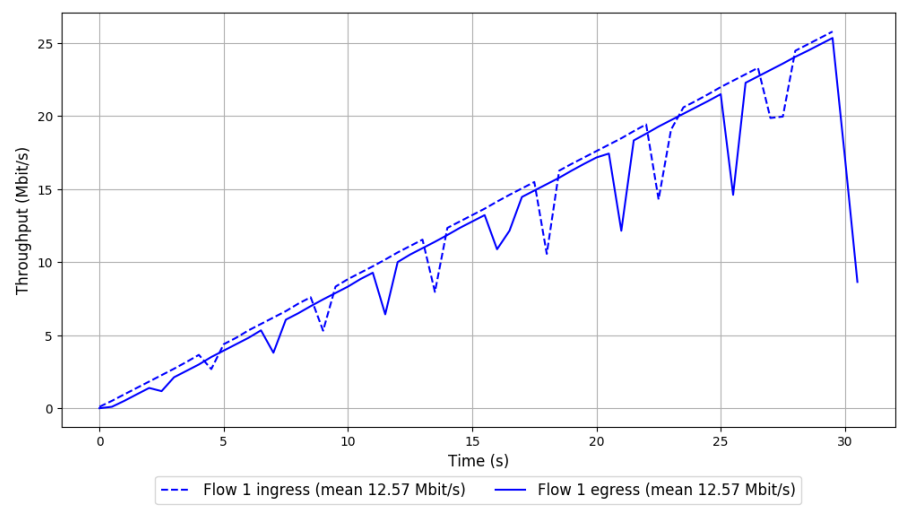


```
Run 1: Statistics of LEDBAT

Start at: 2019-02-05 01:15:32
End at: 2019-02-05 01:16:02
Local clock offset: 20.505 ms
Remote clock offset: -0.159 ms

# Below is generated by plot.py at 2019-02-05 05:07:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.57 Mbit/s
95th percentile per-packet one-way delay: 89.138 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.57 Mbit/s
95th percentile per-packet one-way delay: 89.138 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

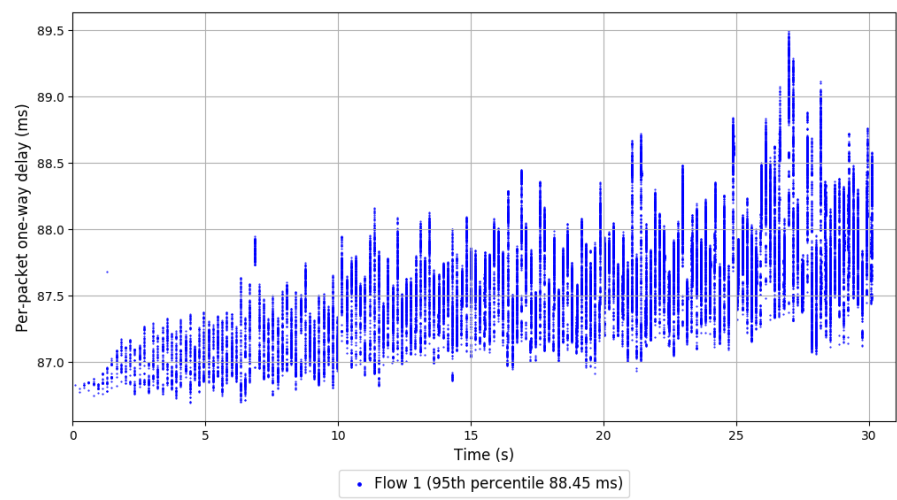
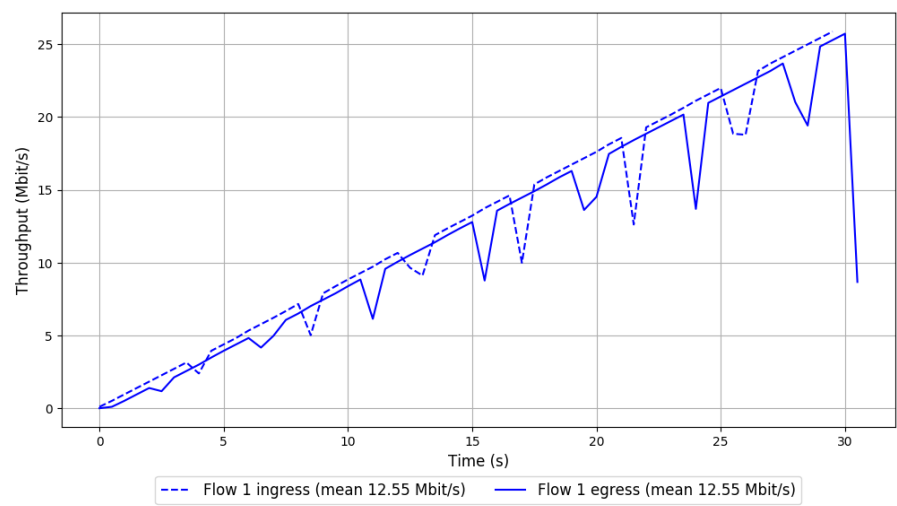


Run 2: Statistics of LEDBAT

Start at: 2019-02-05 01:46:55
End at: 2019-02-05 01:47:25
Local clock offset: 32.938 ms
Remote clock offset: -0.407 ms

Below is generated by plot.py at 2019-02-05 05:07:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.55 Mbit/s
95th percentile per-packet one-way delay: 88.449 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.55 Mbit/s
95th percentile per-packet one-way delay: 88.449 ms
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

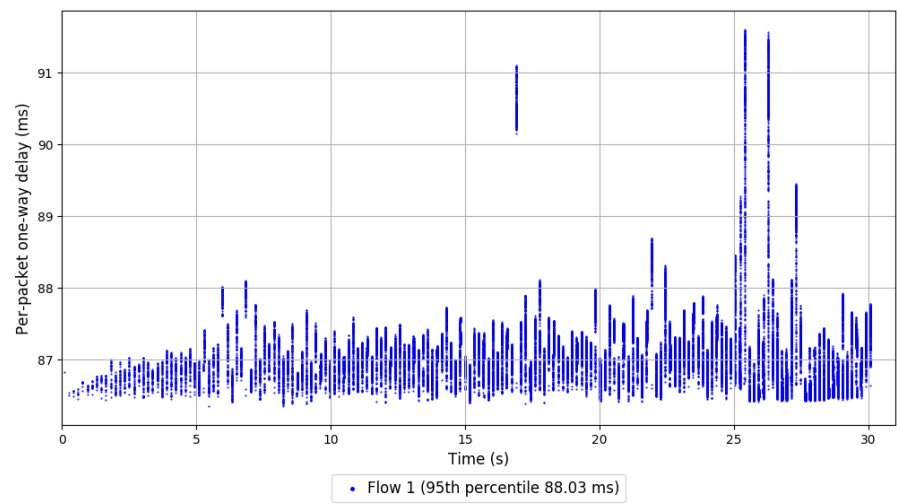
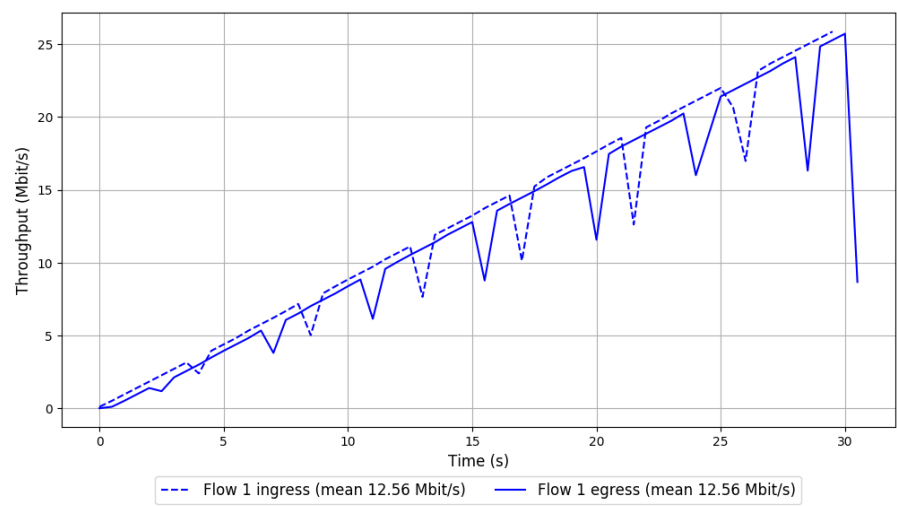


Run 3: Statistics of LEDBAT

Start at: 2019-02-05 02:18:01
End at: 2019-02-05 02:18:31
Local clock offset: 16.377 ms
Remote clock offset: -0.622 ms

Below is generated by plot.py at 2019-02-05 05:07:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.56 Mbit/s
95th percentile per-packet one-way delay: 88.032 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.56 Mbit/s
95th percentile per-packet one-way delay: 88.032 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-02-05 02:49:18

End at: 2019-02-05 02:49:48

Local clock offset: 7.83 ms

Remote clock offset: 0.011 ms

Below is generated by plot.py at 2019-02-05 05:07:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.56 Mbit/s

95th percentile per-packet one-way delay: 87.851 ms

Loss rate: 0.00%

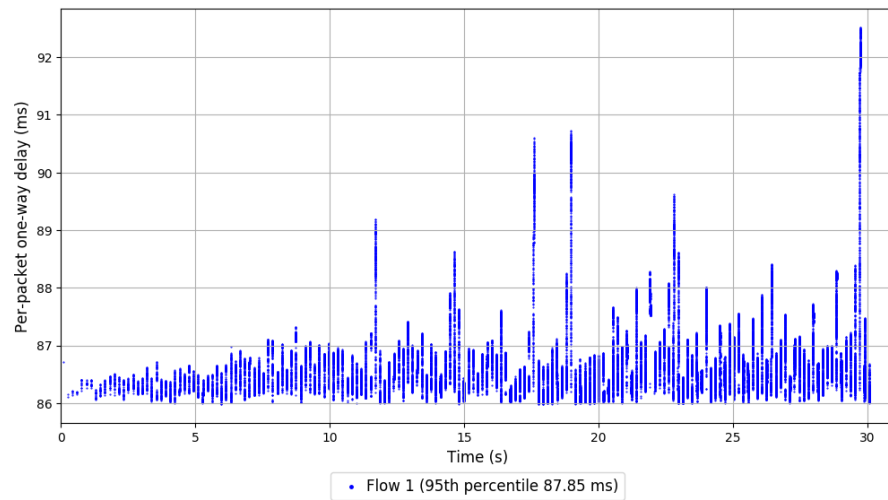
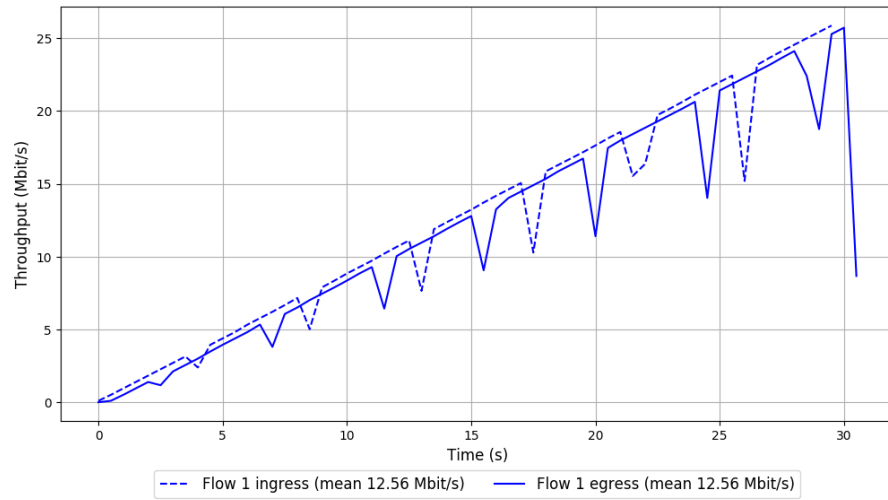
-- Flow 1:

Average throughput: 12.56 Mbit/s

95th percentile per-packet one-way delay: 87.851 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-02-05 03:20:49

End at: 2019-02-05 03:21:19

Local clock offset: 1.815 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2019-02-05 05:07:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.63 Mbit/s

95th percentile per-packet one-way delay: 88.089 ms

Loss rate: 0.00%

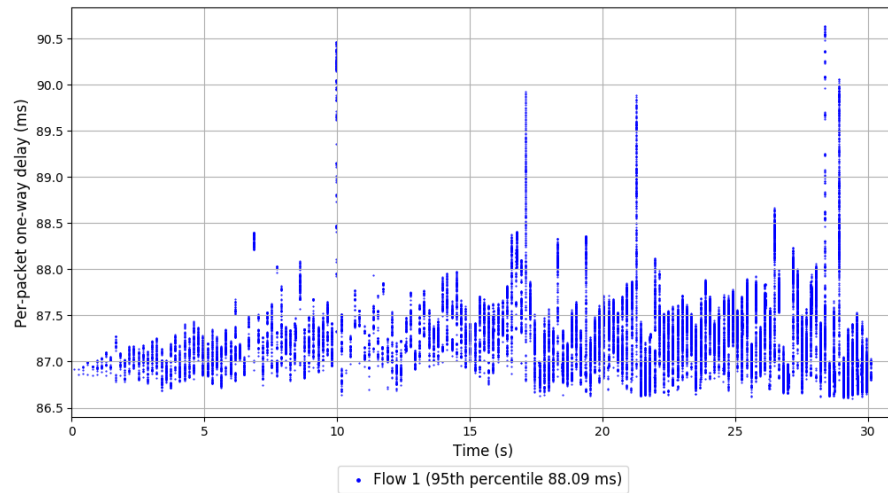
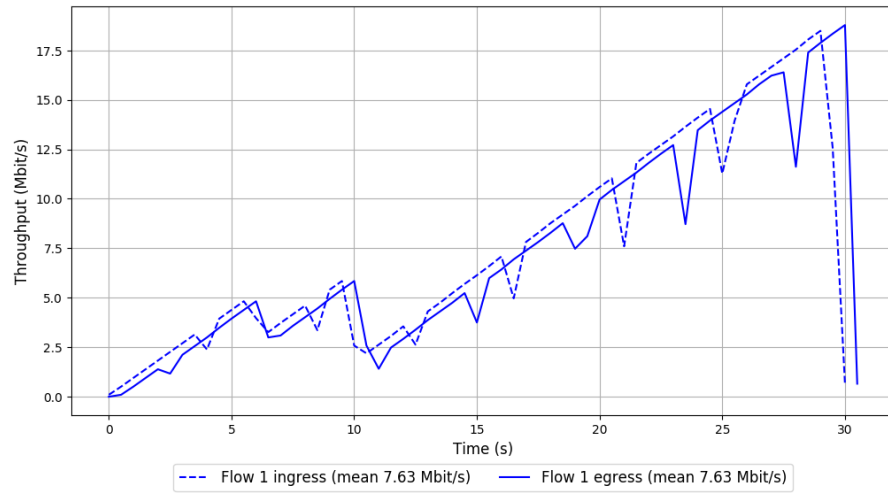
-- Flow 1:

Average throughput: 7.63 Mbit/s

95th percentile per-packet one-way delay: 88.089 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-02-05 01:16:43

End at: 2019-02-05 01:17:13

Local clock offset: 22.482 ms

Remote clock offset: -0.198 ms

Below is generated by plot.py at 2019-02-05 05:09:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 343.48 Mbit/s

95th percentile per-packet one-way delay: 97.474 ms

Loss rate: 0.87%

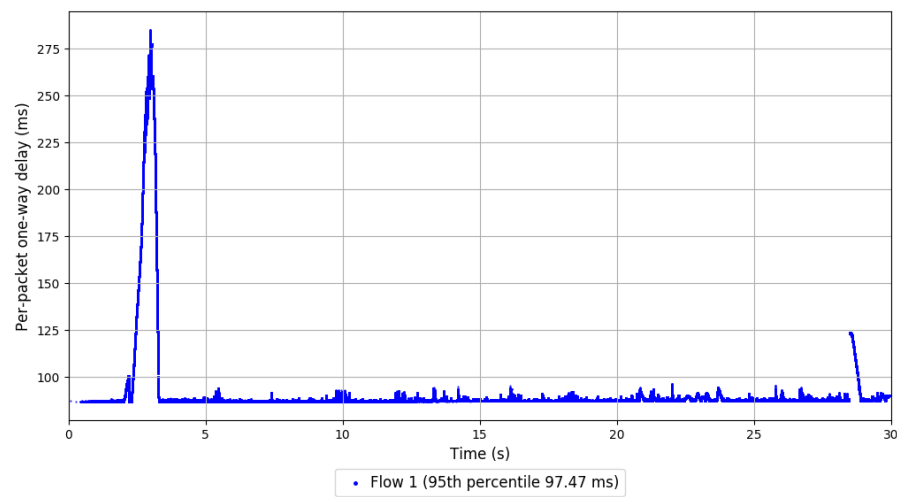
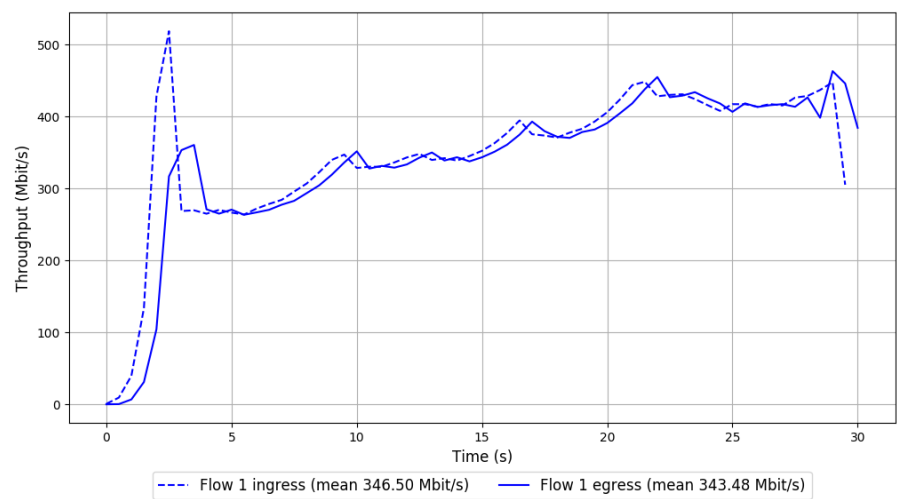
-- Flow 1:

Average throughput: 343.48 Mbit/s

95th percentile per-packet one-way delay: 97.474 ms

Loss rate: 0.87%

Run 1: Report of PCC-Allegro — Data Link

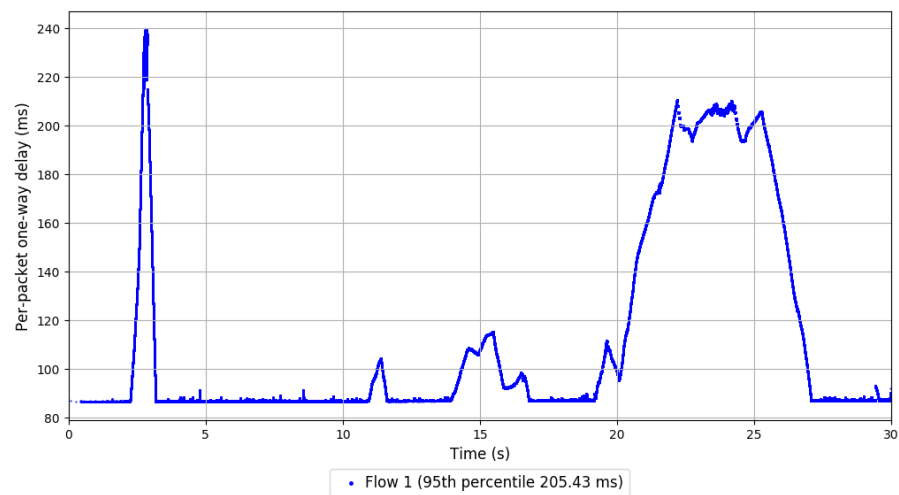
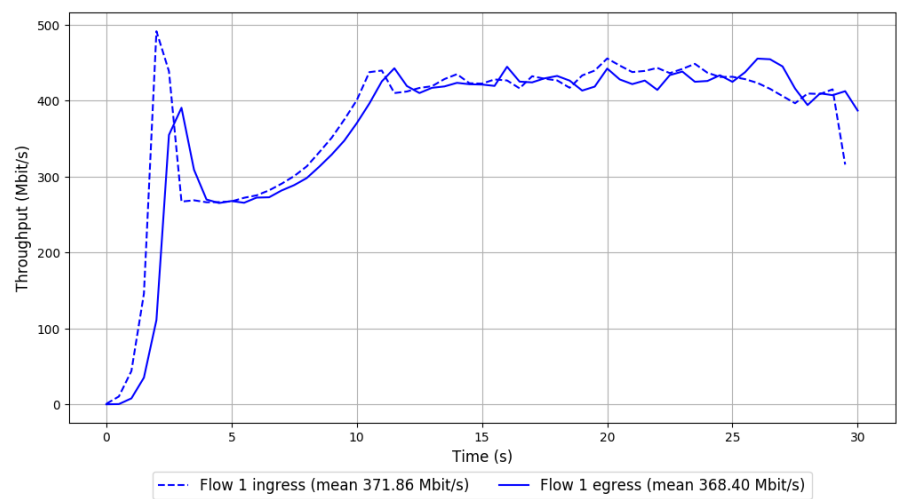


Run 2: Statistics of PCC-Allegro

Start at: 2019-02-05 01:48:06
End at: 2019-02-05 01:48:36
Local clock offset: 34.192 ms
Remote clock offset: -0.382 ms

Below is generated by plot.py at 2019-02-05 05:10:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 368.40 Mbit/s
95th percentile per-packet one-way delay: 205.425 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 368.40 Mbit/s
95th percentile per-packet one-way delay: 205.425 ms
Loss rate: 0.93%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-02-05 02:19:12

End at: 2019-02-05 02:19:42

Local clock offset: 16.712 ms

Remote clock offset: -0.622 ms

Below is generated by plot.py at 2019-02-05 05:10:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 360.30 Mbit/s

95th percentile per-packet one-way delay: 192.051 ms

Loss rate: 2.21%

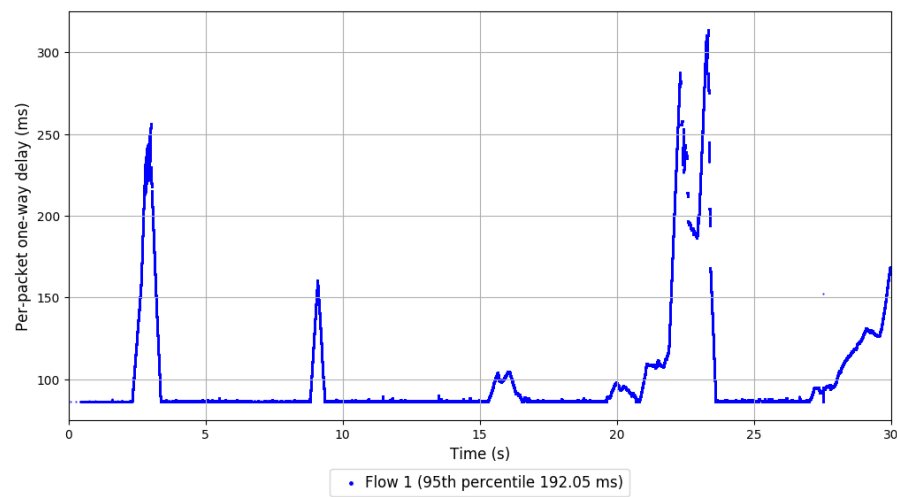
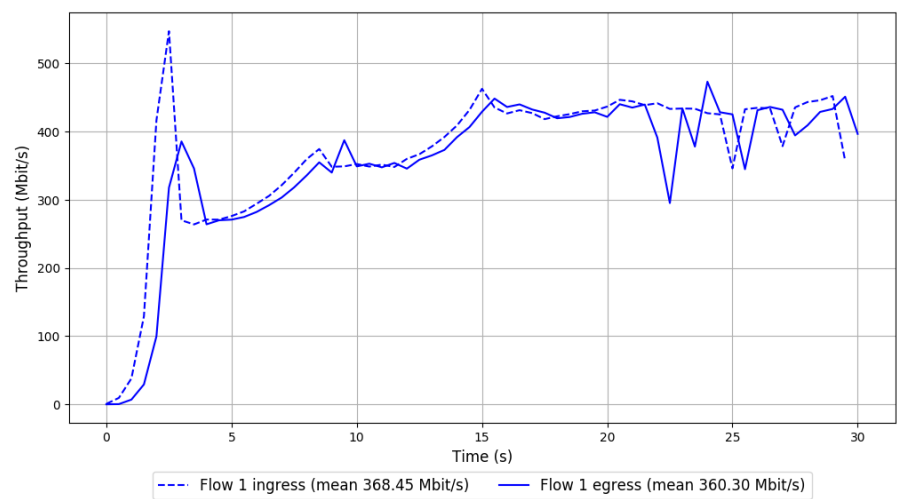
-- Flow 1:

Average throughput: 360.30 Mbit/s

95th percentile per-packet one-way delay: 192.051 ms

Loss rate: 2.21%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-02-05 02:50:28

End at: 2019-02-05 02:50:58

Local clock offset: 7.676 ms

Remote clock offset: 0.023 ms

Below is generated by plot.py at 2019-02-05 05:15:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 343.90 Mbit/s

95th percentile per-packet one-way delay: 213.645 ms

Loss rate: 2.07%

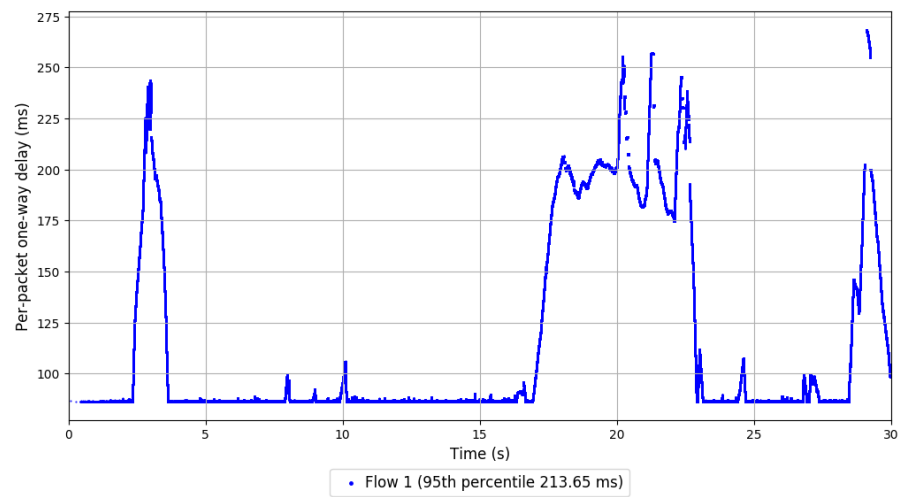
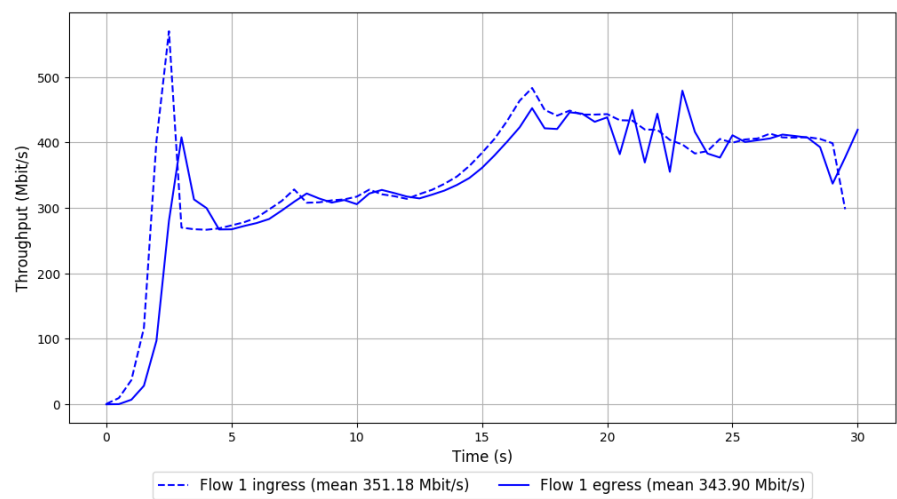
-- Flow 1:

Average throughput: 343.90 Mbit/s

95th percentile per-packet one-way delay: 213.645 ms

Loss rate: 2.07%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-02-05 03:22:00

End at: 2019-02-05 03:22:30

Local clock offset: 2.251 ms

Remote clock offset: 0.002 ms

Below is generated by plot.py at 2019-02-05 05:18:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 289.95 Mbit/s

95th percentile per-packet one-way delay: 222.907 ms

Loss rate: 7.42%

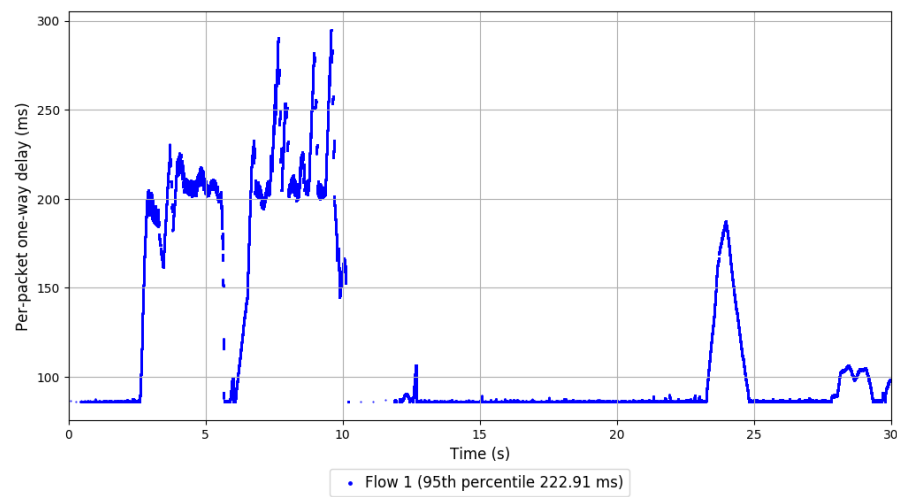
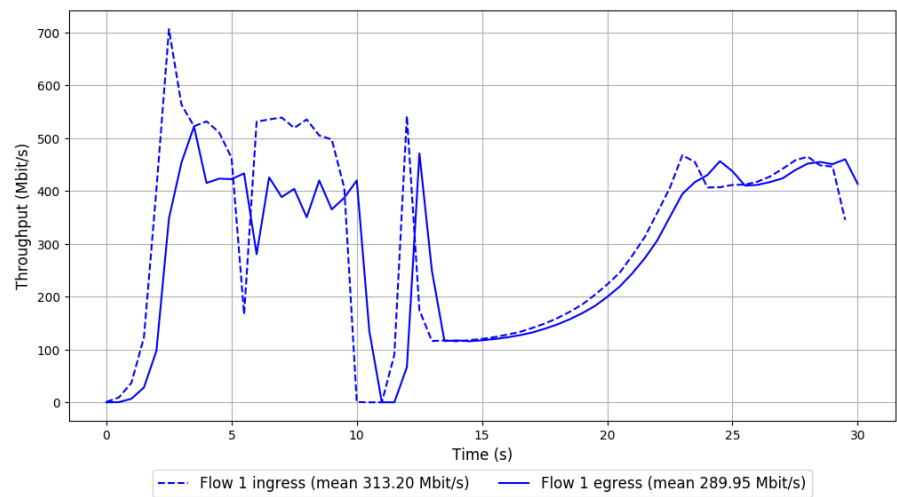
-- Flow 1:

Average throughput: 289.95 Mbit/s

95th percentile per-packet one-way delay: 222.907 ms

Loss rate: 7.42%

Run 5: Report of PCC-Allegro — Data Link

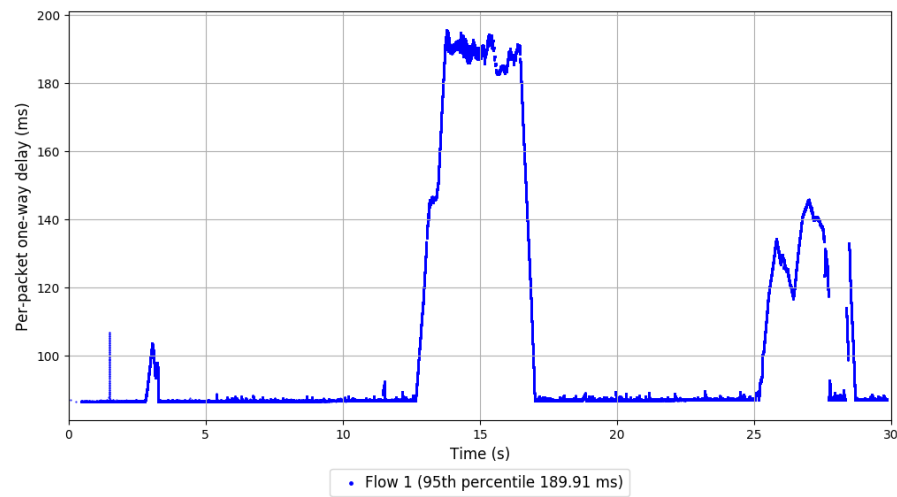
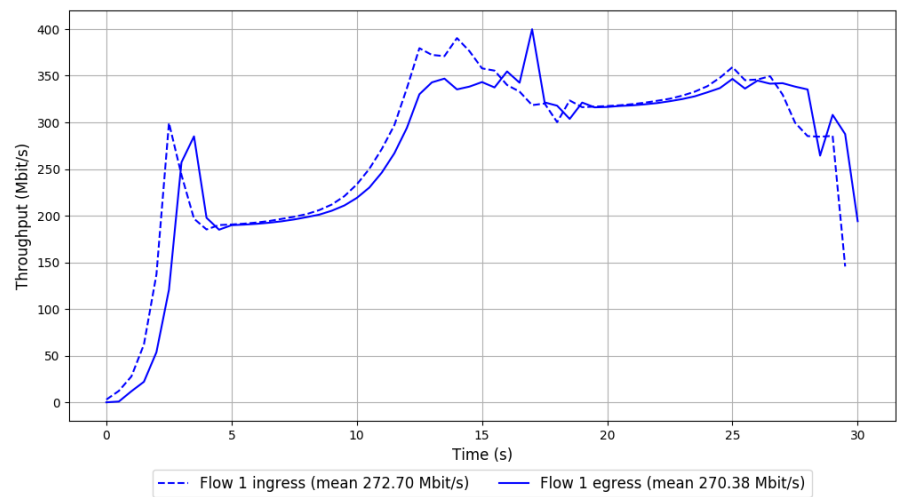


Run 1: Statistics of PCC-Expr

Start at: 2019-02-05 01:12:22
End at: 2019-02-05 01:12:52
Local clock offset: 17.062 ms
Remote clock offset: -0.154 ms

Below is generated by plot.py at 2019-02-05 05:18:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 270.38 Mbit/s
95th percentile per-packet one-way delay: 189.915 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 270.38 Mbit/s
95th percentile per-packet one-way delay: 189.915 ms
Loss rate: 0.85%

Run 1: Report of PCC-Expr — Data Link

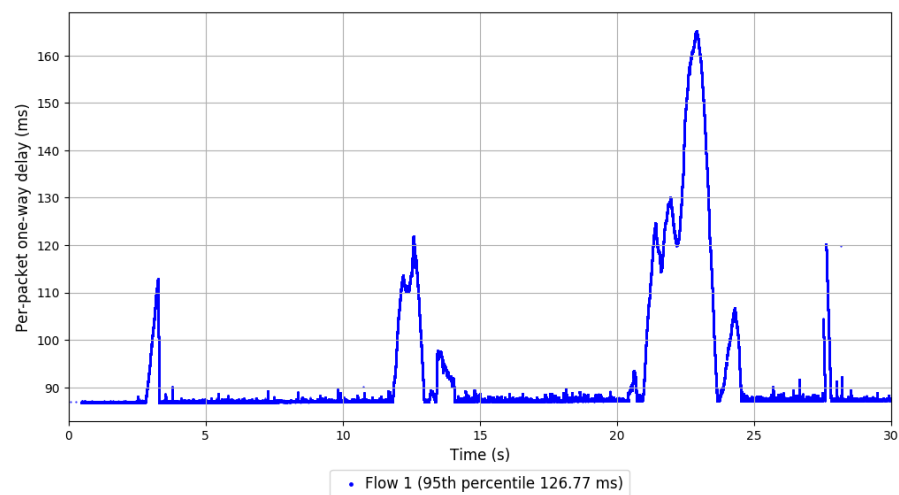
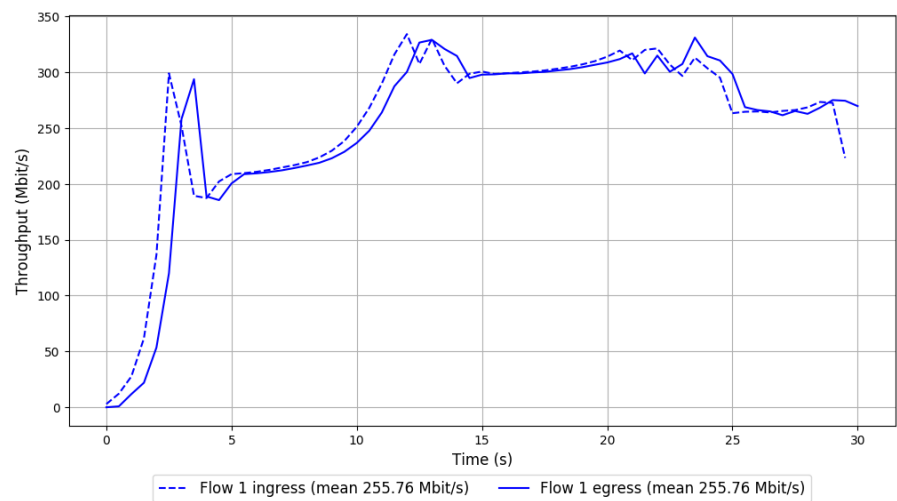


Run 2: Statistics of PCC-Expr

Start at: 2019-02-05 01:43:28
End at: 2019-02-05 01:43:58
Local clock offset: 29.186 ms
Remote clock offset: -0.404 ms

Below is generated by plot.py at 2019-02-05 05:18:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 255.76 Mbit/s
95th percentile per-packet one-way delay: 126.767 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 255.76 Mbit/s
95th percentile per-packet one-way delay: 126.767 ms
Loss rate: 0.00%

Run 2: Report of PCC-Expr — Data Link

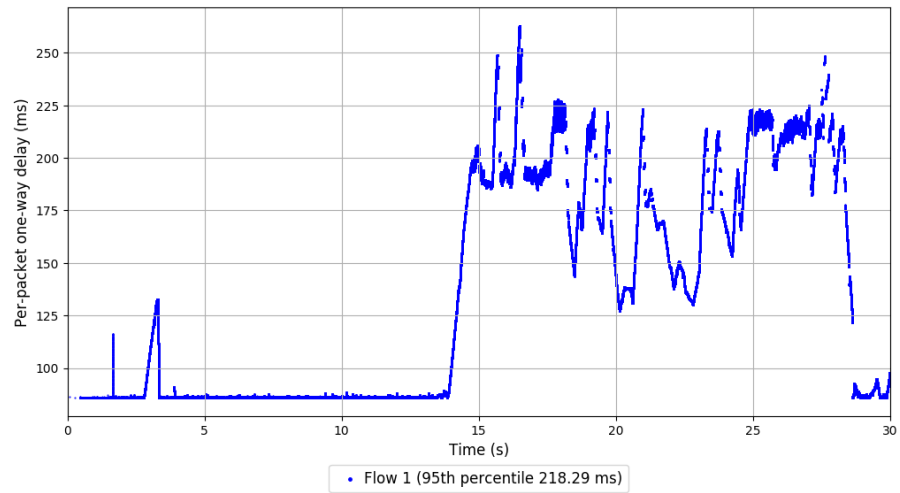
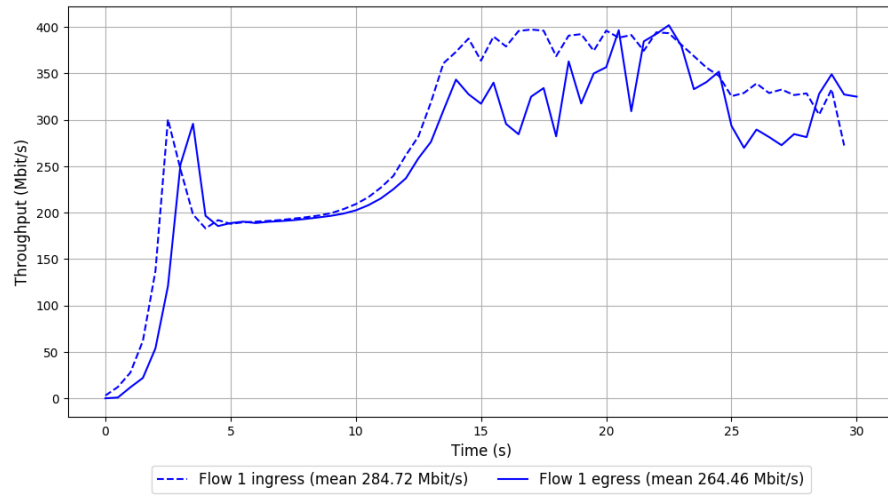


Run 3: Statistics of PCC-Expr

Start at: 2019-02-05 02:14:41
End at: 2019-02-05 02:15:11
Local clock offset: 15.965 ms
Remote clock offset: -0.576 ms

Below is generated by plot.py at 2019-02-05 05:19:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 264.46 Mbit/s
95th percentile per-packet one-way delay: 218.289 ms
Loss rate: 7.11%
-- Flow 1:
Average throughput: 264.46 Mbit/s
95th percentile per-packet one-way delay: 218.289 ms
Loss rate: 7.11%

Run 3: Report of PCC-Expr — Data Link

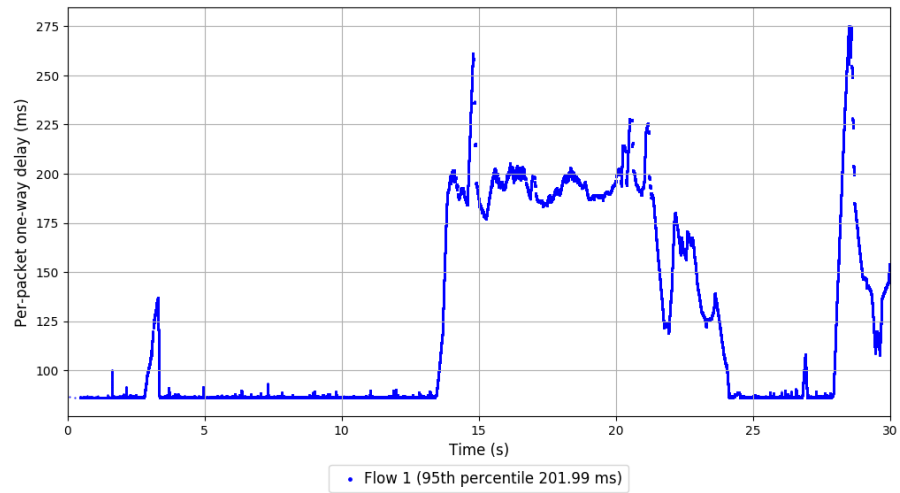
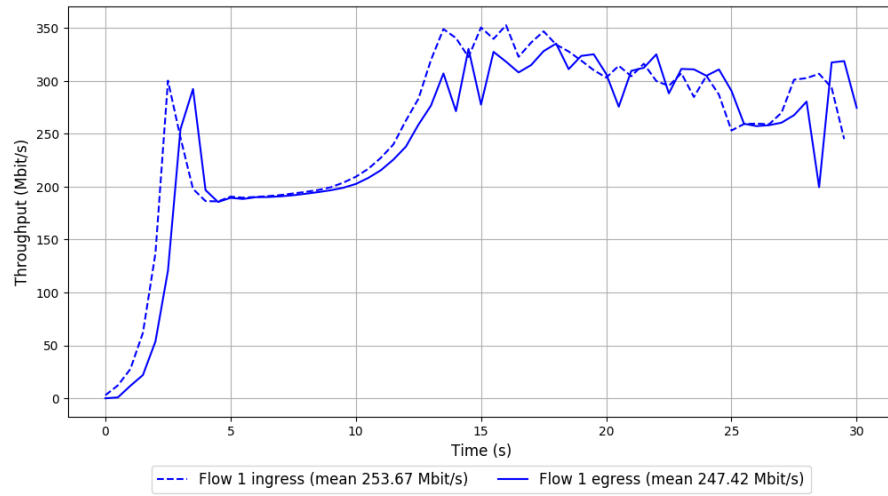


Run 4: Statistics of PCC-Expr

Start at: 2019-02-05 02:45:57
End at: 2019-02-05 02:46:27
Local clock offset: 7.556 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2019-02-05 05:19:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 247.42 Mbit/s
95th percentile per-packet one-way delay: 201.992 ms
Loss rate: 2.46%
-- Flow 1:
Average throughput: 247.42 Mbit/s
95th percentile per-packet one-way delay: 201.992 ms
Loss rate: 2.46%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-02-05 03:17:20

End at: 2019-02-05 03:17:50

Local clock offset: 3.035 ms

Remote clock offset: 0.056 ms

Below is generated by plot.py at 2019-02-05 05:23:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 301.29 Mbit/s

95th percentile per-packet one-way delay: 205.072 ms

Loss rate: 10.52%

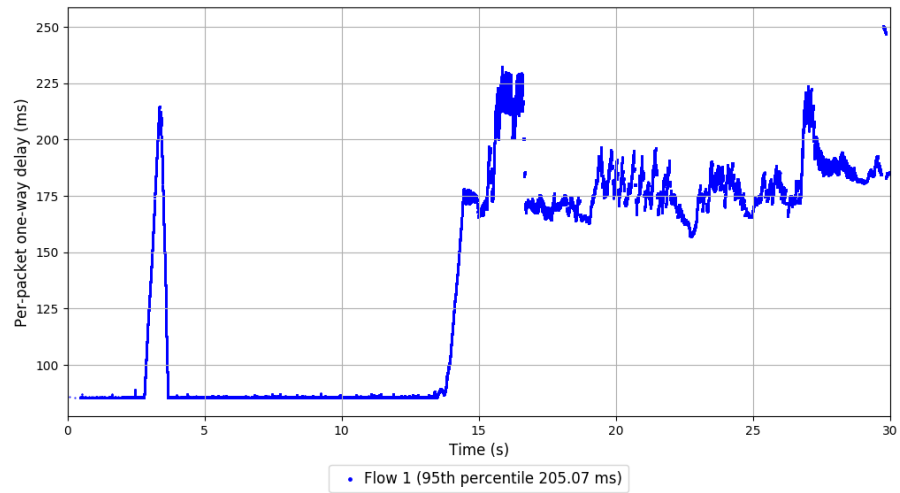
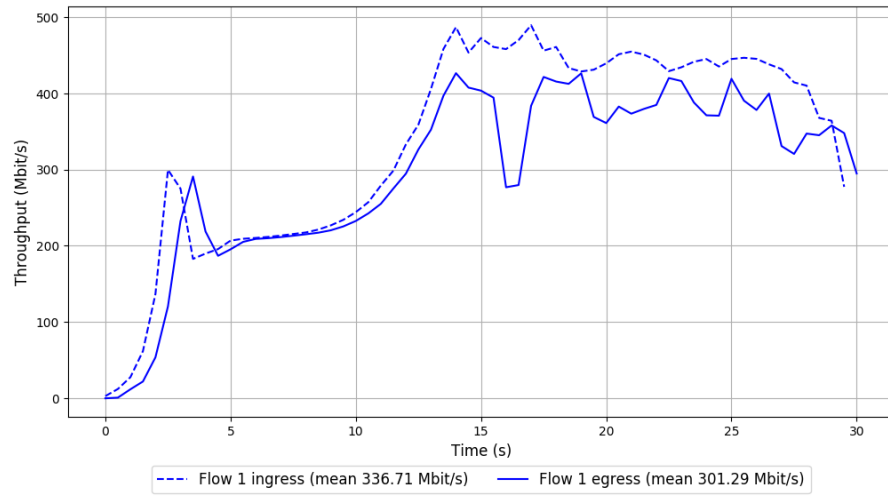
-- Flow 1:

Average throughput: 301.29 Mbit/s

95th percentile per-packet one-way delay: 205.072 ms

Loss rate: 10.52%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-02-05 00:50:24

End at: 2019-02-05 00:50:54

Local clock offset: 7.065 ms

Remote clock offset: -0.047 ms

Below is generated by plot.py at 2019-02-05 05:23:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.28 Mbit/s

95th percentile per-packet one-way delay: 85.549 ms

Loss rate: 0.00%

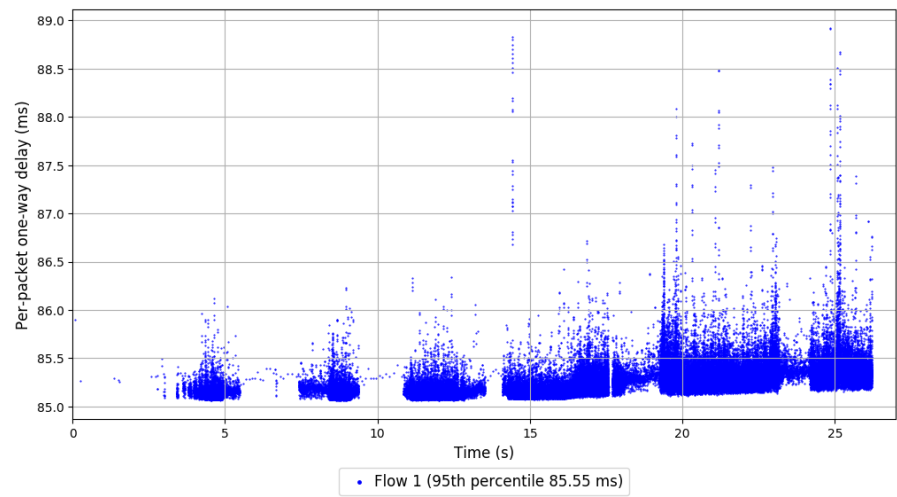
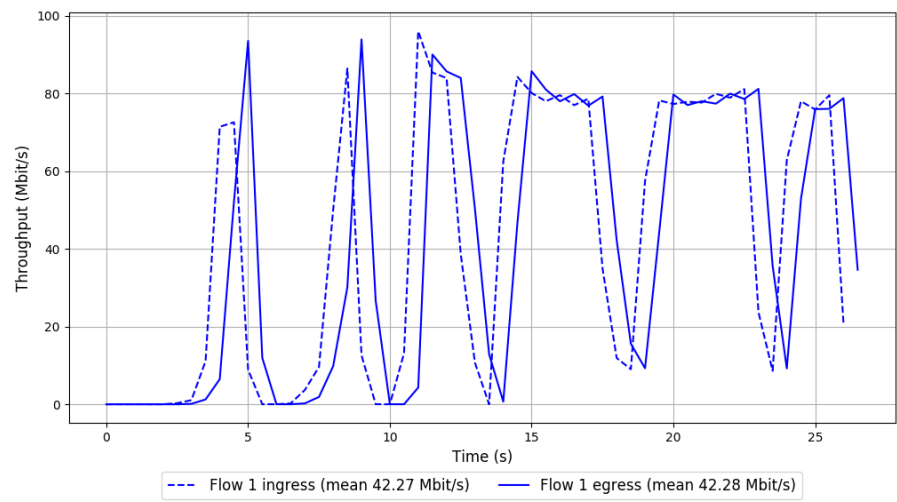
-- Flow 1:

Average throughput: 42.28 Mbit/s

95th percentile per-packet one-way delay: 85.549 ms

Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link

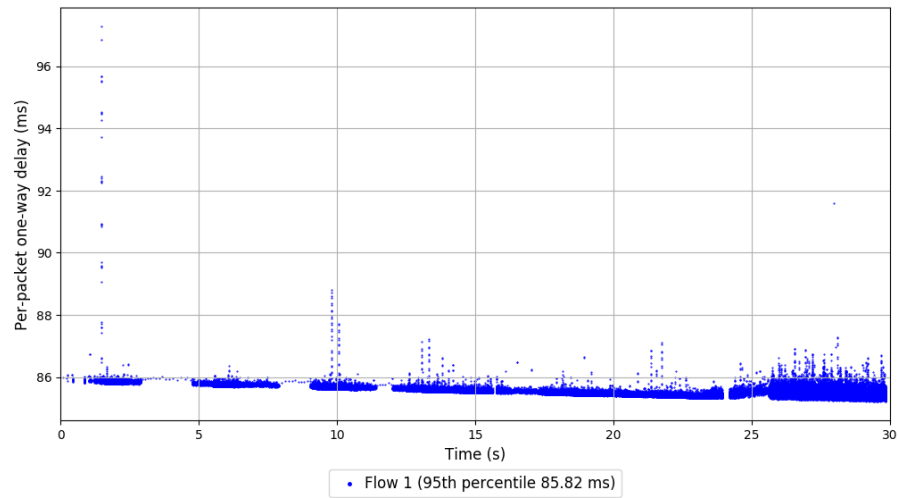
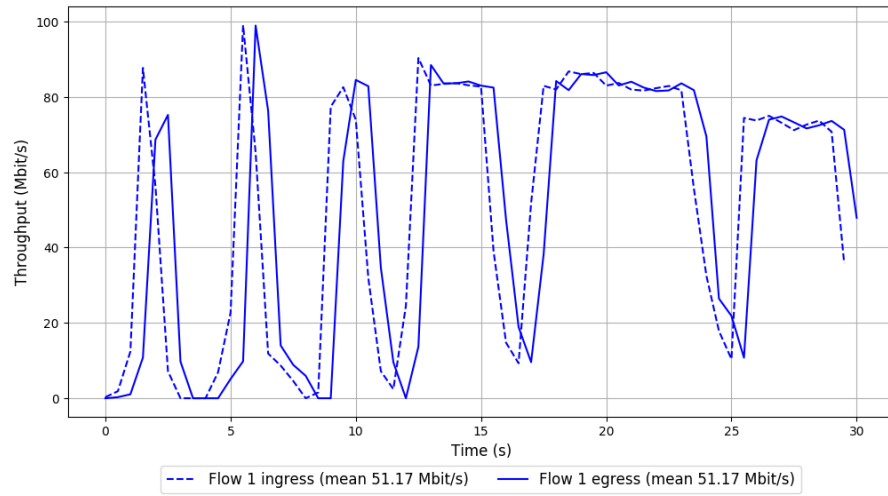


Run 2: Statistics of QUIC Cubic

Start at: 2019-02-05 01:21:25
End at: 2019-02-05 01:21:55
Local clock offset: 24.074 ms
Remote clock offset: -0.235 ms

Below is generated by plot.py at 2019-02-05 05:23:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 51.17 Mbit/s
95th percentile per-packet one-way delay: 85.818 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 51.17 Mbit/s
95th percentile per-packet one-way delay: 85.818 ms
Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link

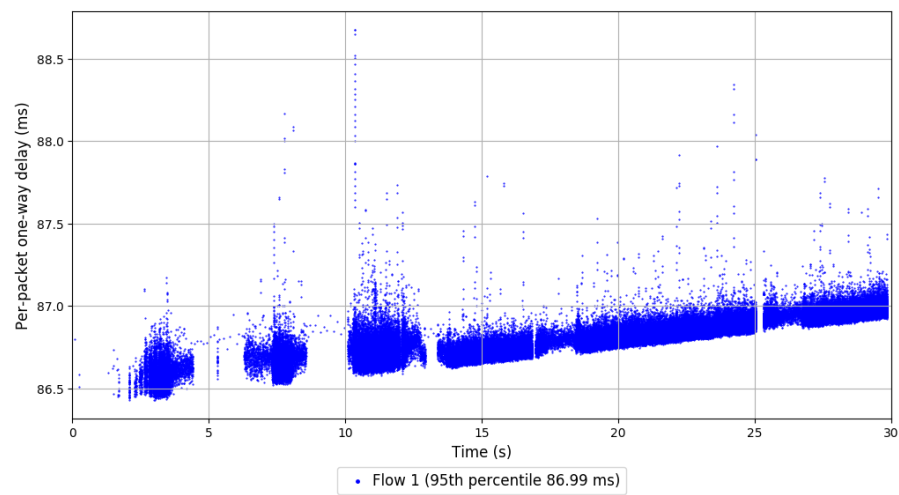
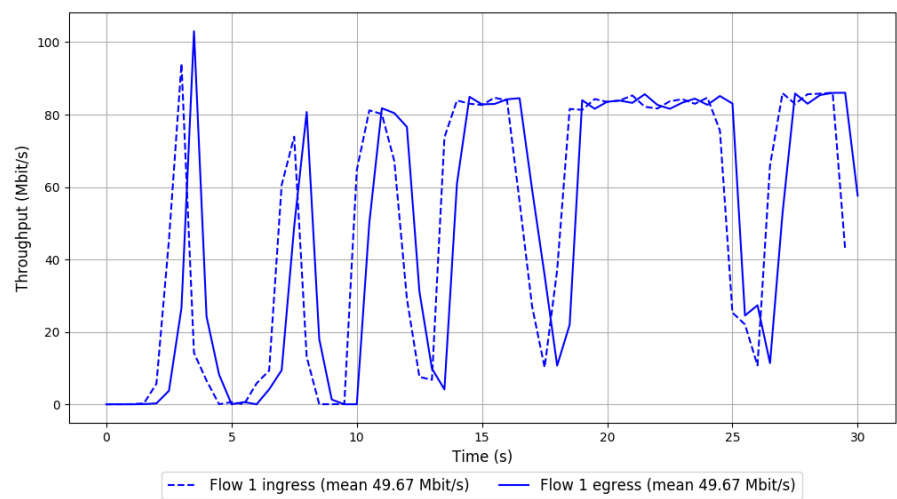


Run 3: Statistics of QUIC Cubic

Start at: 2019-02-05 01:52:51
End at: 2019-02-05 01:53:21
Local clock offset: 39.514 ms
Remote clock offset: -0.444 ms

Below is generated by plot.py at 2019-02-05 05:23:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 49.67 Mbit/s
95th percentile per-packet one-way delay: 86.986 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.67 Mbit/s
95th percentile per-packet one-way delay: 86.986 ms
Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-02-05 02:23:57

End at: 2019-02-05 02:24:27

Local clock offset: 18.734 ms

Remote clock offset: -0.646 ms

Below is generated by plot.py at 2019-02-05 05:23:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.85 Mbit/s

95th percentile per-packet one-way delay: 86.467 ms

Loss rate: 0.00%

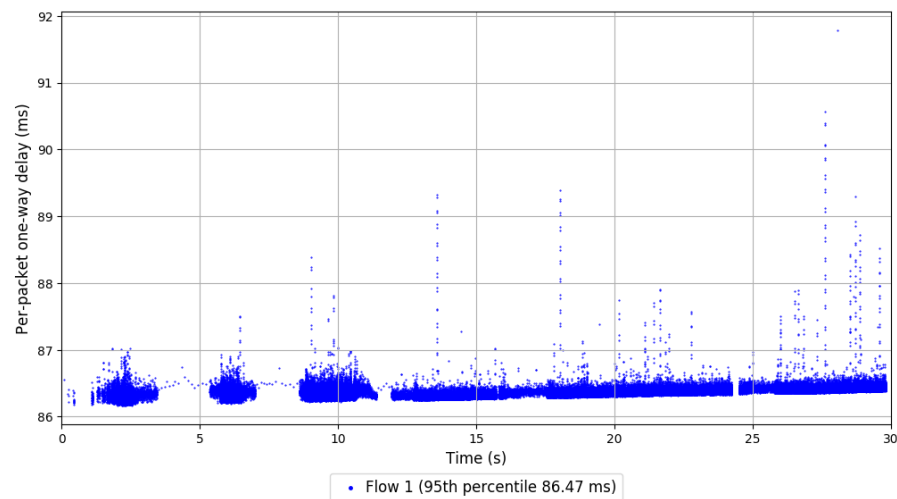
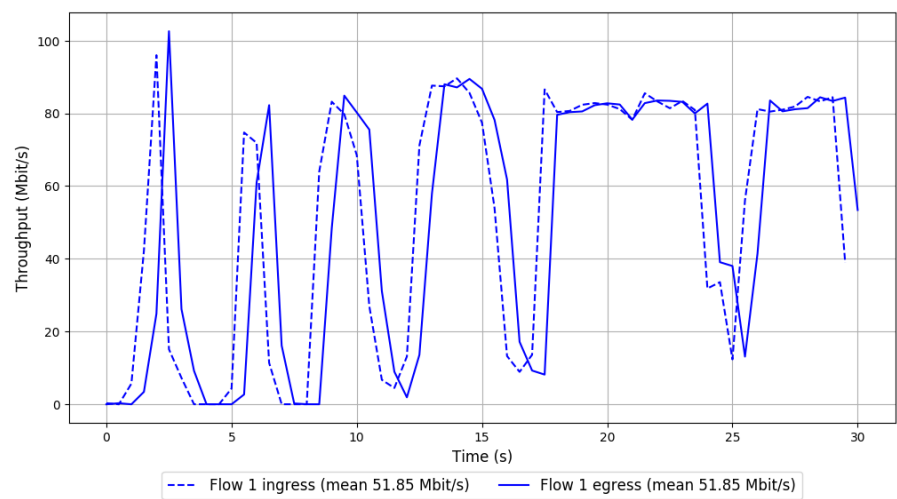
-- Flow 1:

Average throughput: 51.85 Mbit/s

95th percentile per-packet one-way delay: 86.467 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-02-05 02:55:25

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

Local clock offset: 8.829 ms

Remote clock offset: 0.067 ms

Below is generated by plot.py at 2019-02-05 05:23:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.97 Mbit/s

95th percentile per-packet one-way delay: 86.095 ms

Loss rate: 0.00%

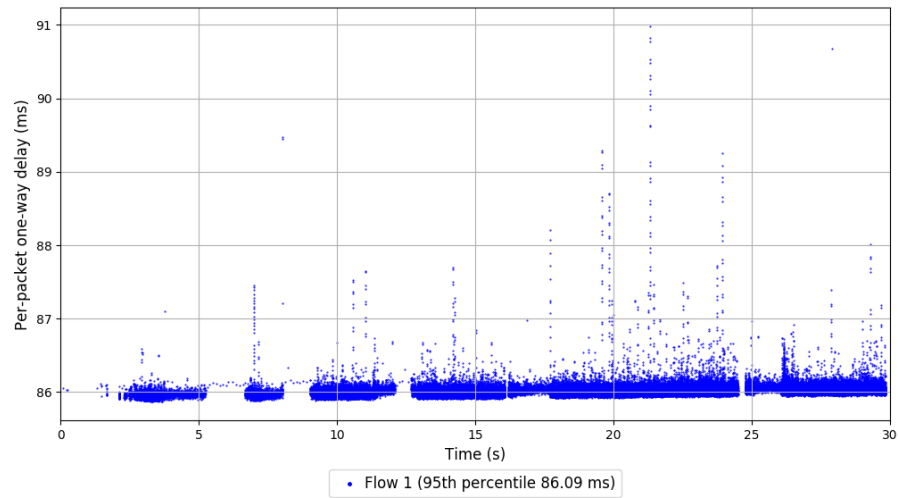
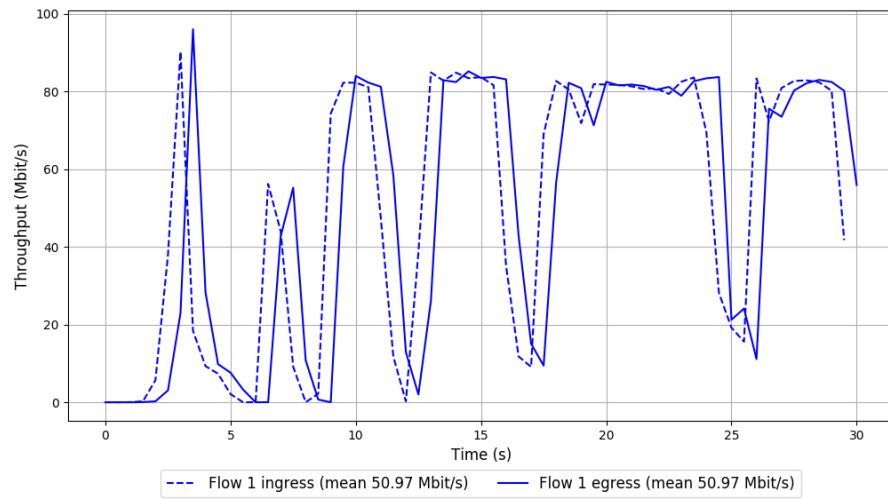
-- Flow 1:

Average throughput: 50.97 Mbit/s

95th percentile per-packet one-way delay: 86.095 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

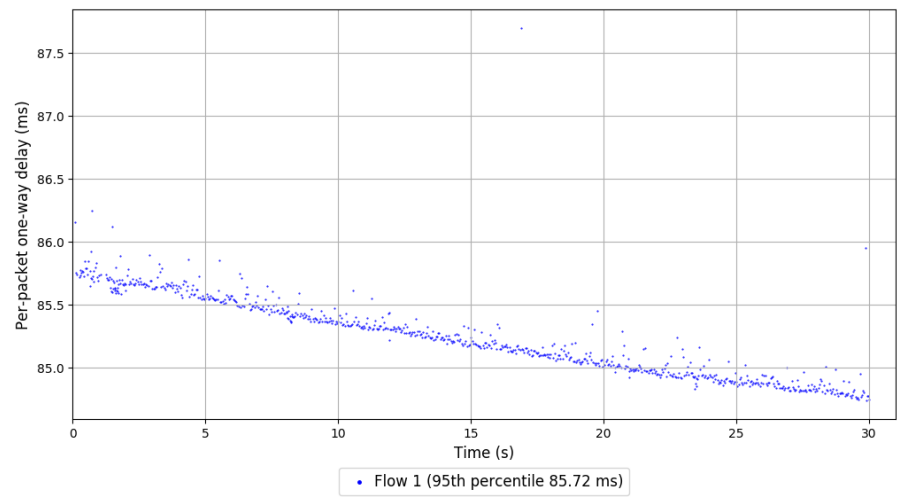
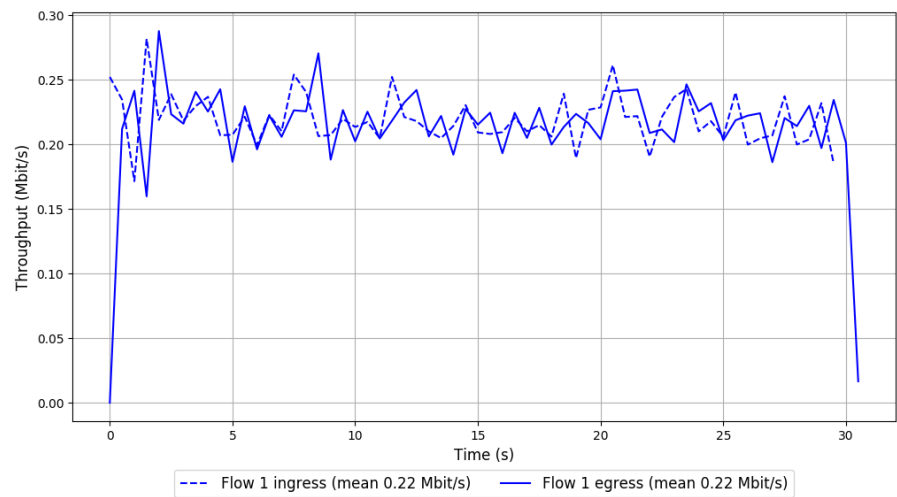


Run 1: Statistics of SCReAM

Start at: 2019-02-05 00:54:16
End at: 2019-02-05 00:54:46
Local clock offset: 11.692 ms
Remote clock offset: -0.037 ms

Below is generated by plot.py at 2019-02-05 05:23:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.722 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.722 ms
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

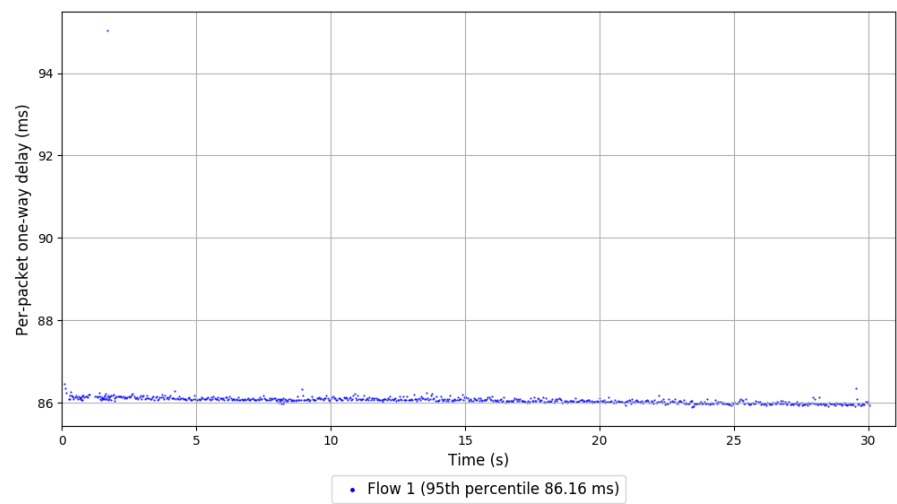
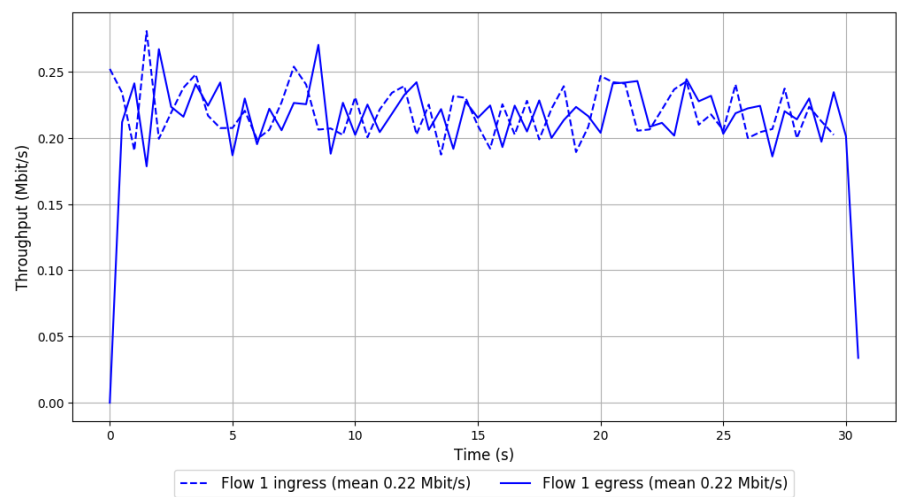


Run 2: Statistics of SCReAM

Start at: 2019-02-05 01:25:19
End at: 2019-02-05 01:25:49
Local clock offset: 20.708 ms
Remote clock offset: -0.233 ms

Below is generated by plot.py at 2019-02-05 05:23:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.163 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.163 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

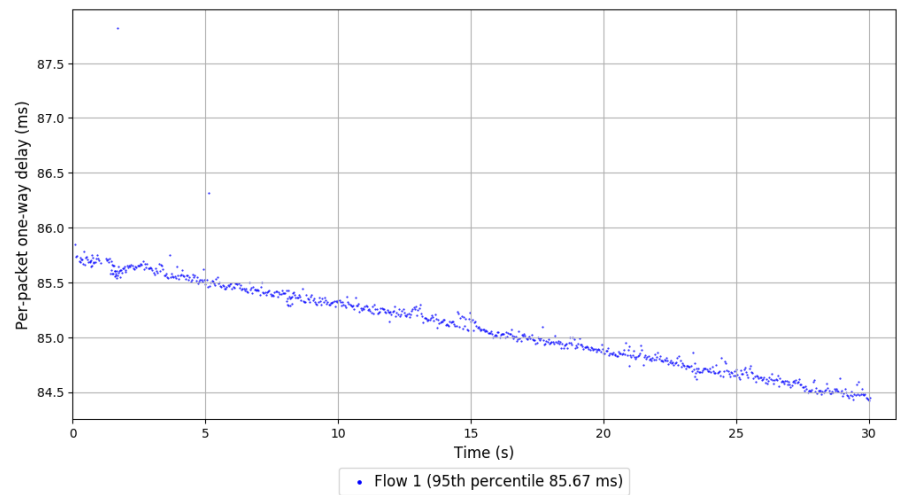
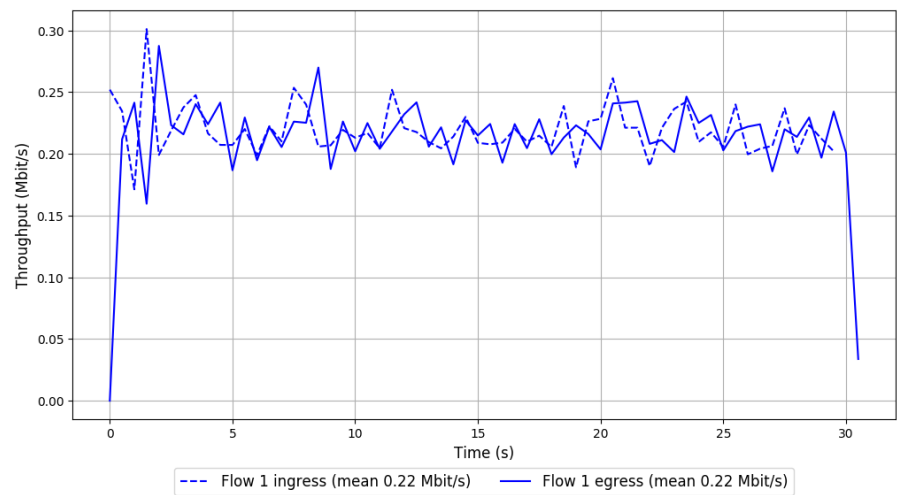


Run 3: Statistics of SCReAM

Start at: 2019-02-05 01:56:42
End at: 2019-02-05 01:57:12
Local clock offset: 30.448 ms
Remote clock offset: -0.487 ms

Below is generated by plot.py at 2019-02-05 05:23:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.670 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.670 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

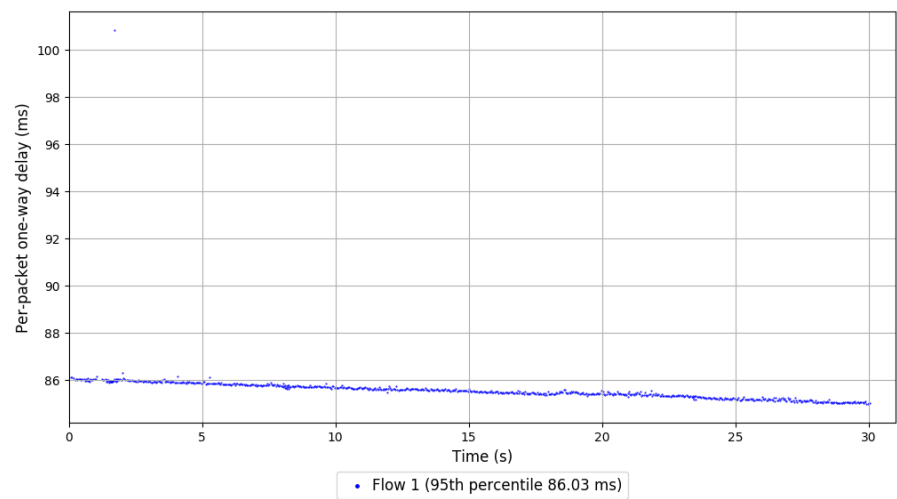
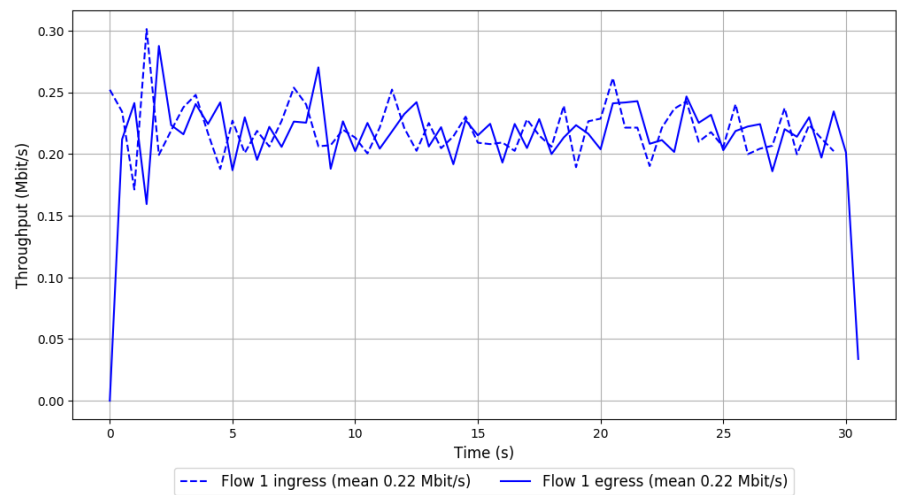


Run 4: Statistics of SCReAM

Start at: 2019-02-05 02:27:48
End at: 2019-02-05 02:28:18
Local clock offset: 20.272 ms
Remote clock offset: -0.683 ms

Below is generated by plot.py at 2019-02-05 05:23:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.029 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.029 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-02-05 02:59:16

End at: 2019-02-05 02:59:46

Local clock offset: 9.331 ms

Remote clock offset: 0.095 ms

Below is generated by plot.py at 2019-02-05 05:23:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.120 ms

Loss rate: 0.00%

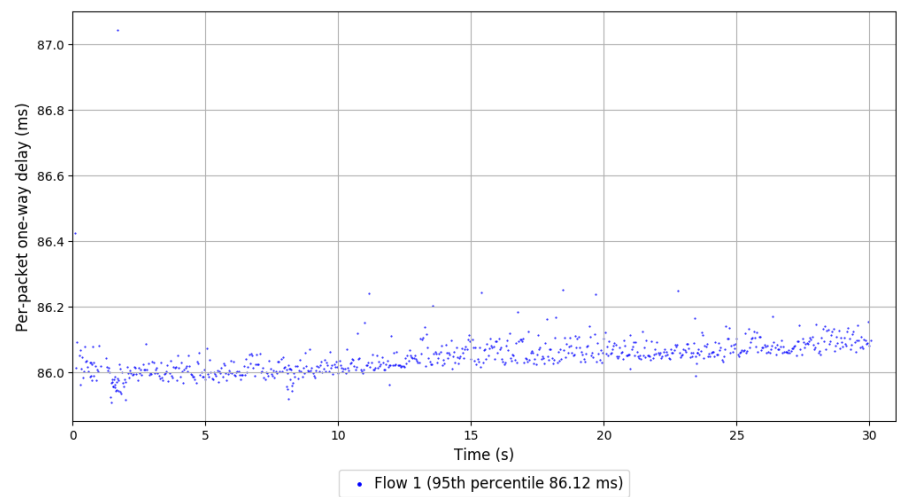
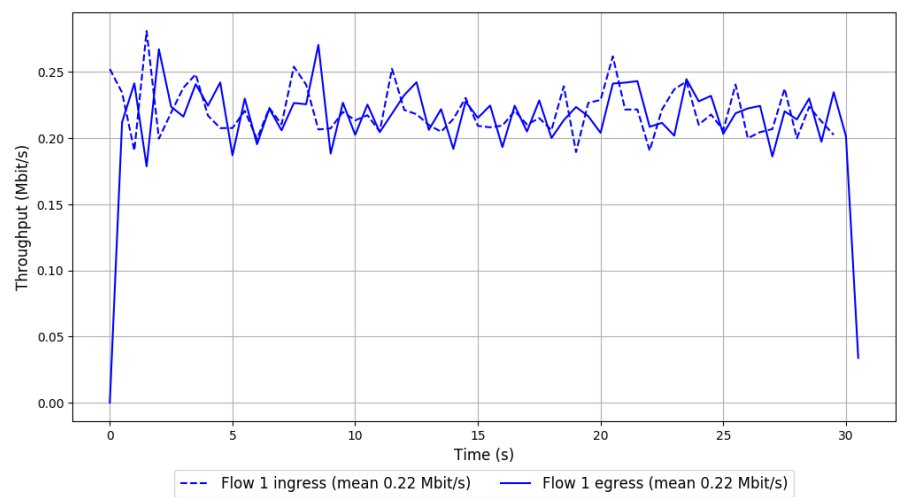
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.120 ms

Loss rate: 0.00%

Run 5: Report of SCReAM — Data Link

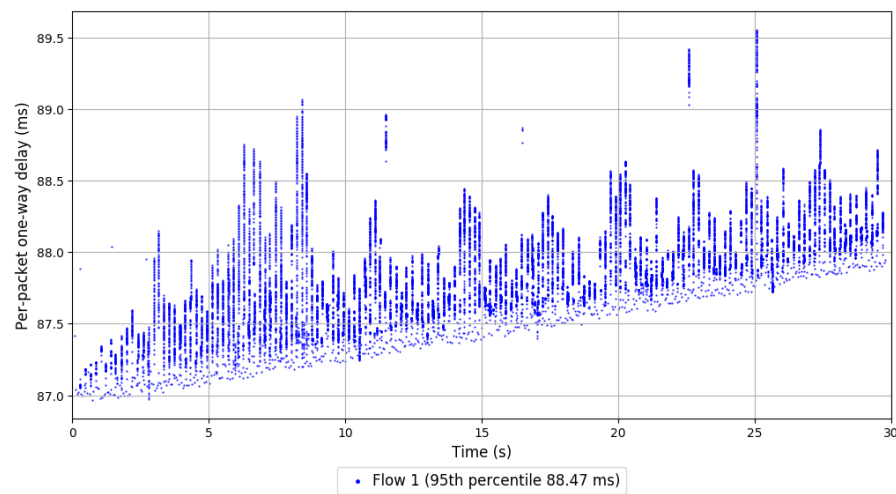
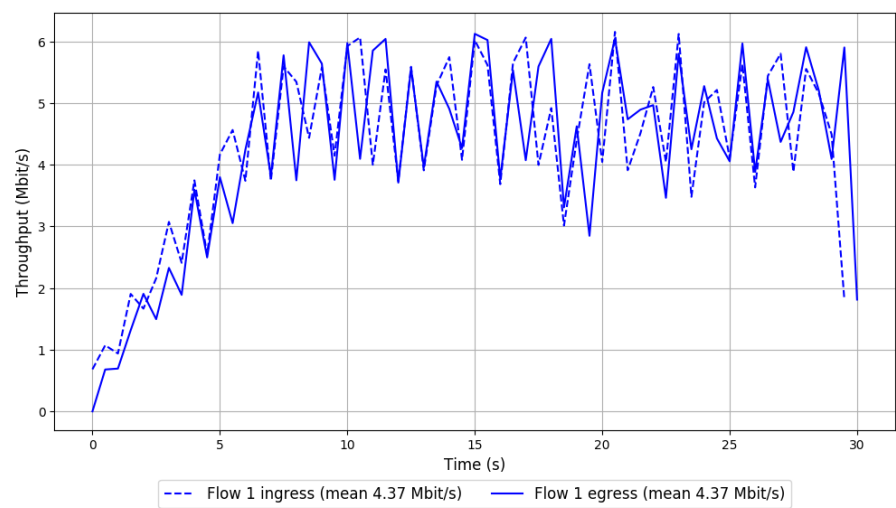


Run 1: Statistics of Sprout

Start at: 2019-02-05 00:51:36
End at: 2019-02-05 00:52:06
Local clock offset: 6.388 ms
Remote clock offset: -0.061 ms

Below is generated by plot.py at 2019-02-05 05:23:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.37 Mbit/s
95th percentile per-packet one-way delay: 88.469 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.37 Mbit/s
95th percentile per-packet one-way delay: 88.469 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

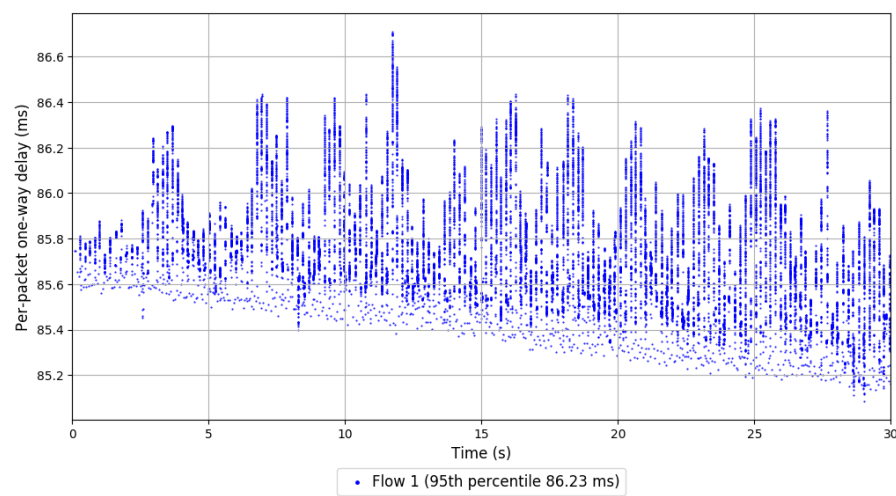
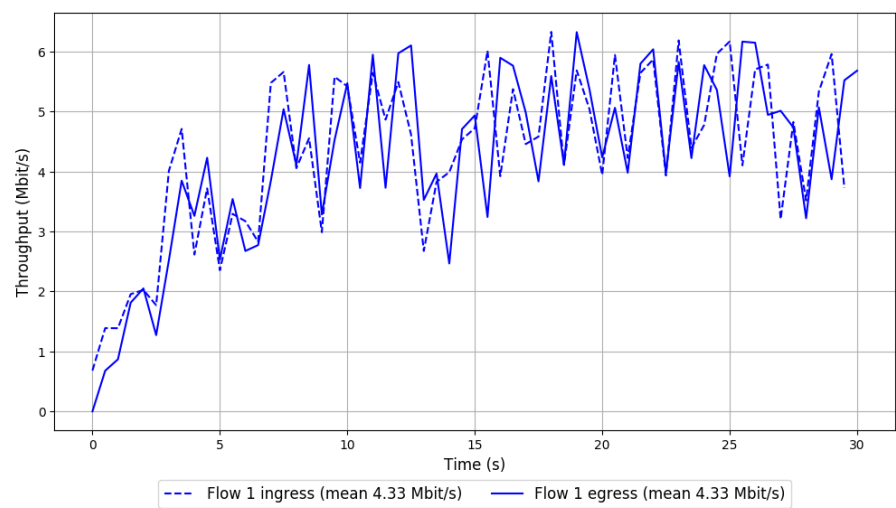


Run 2: Statistics of Sprout

Start at: 2019-02-05 01:22:37
End at: 2019-02-05 01:23:07
Local clock offset: 22.717 ms
Remote clock offset: -0.253 ms

Below is generated by plot.py at 2019-02-05 05:23:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.33 Mbit/s
95th percentile per-packet one-way delay: 86.233 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.33 Mbit/s
95th percentile per-packet one-way delay: 86.233 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

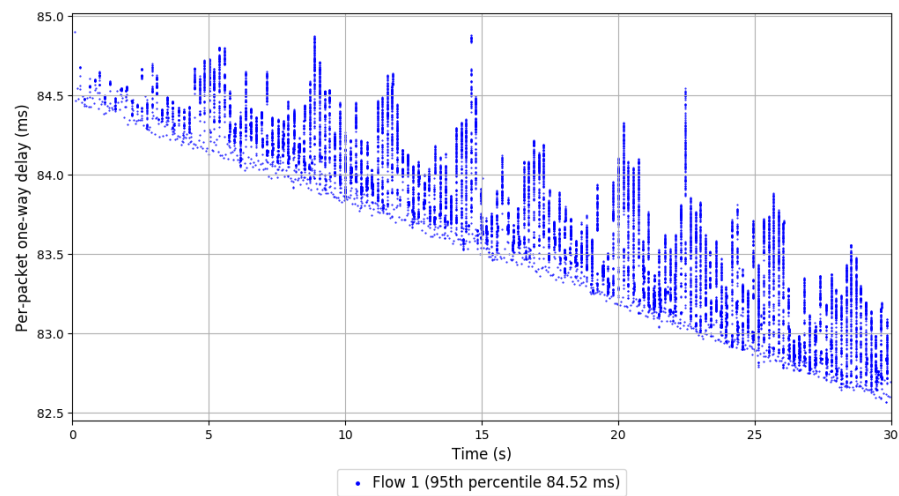
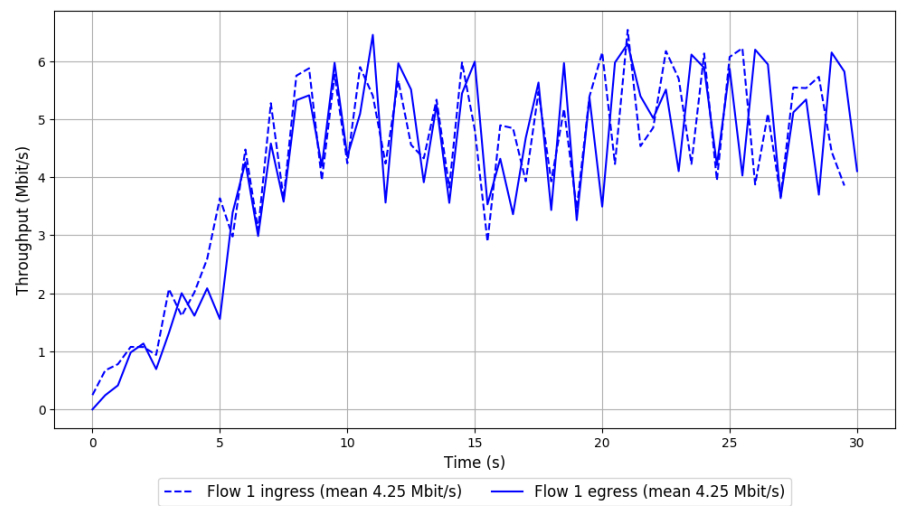


Run 3: Statistics of Sprout

Start at: 2019-02-05 01:54:03
End at: 2019-02-05 01:54:33
Local clock offset: 40.406 ms
Remote clock offset: -0.442 ms

Below is generated by plot.py at 2019-02-05 05:23:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.25 Mbit/s
95th percentile per-packet one-way delay: 84.517 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.25 Mbit/s
95th percentile per-packet one-way delay: 84.517 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

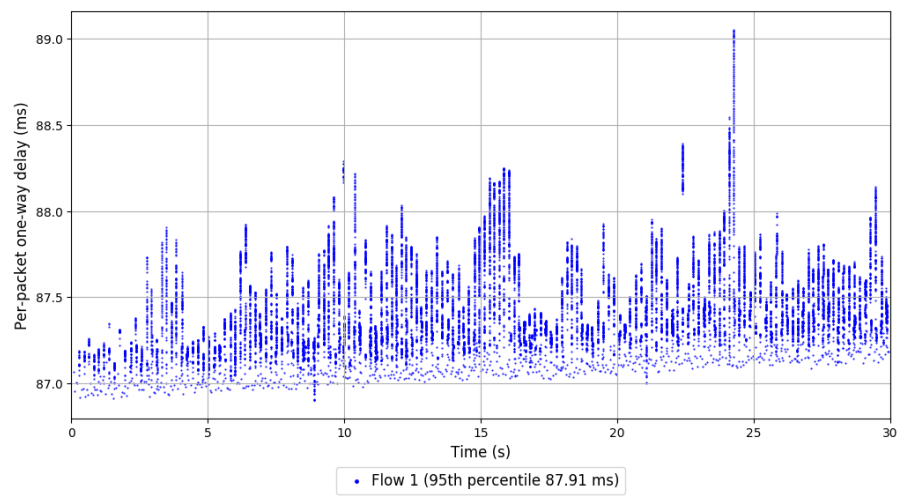
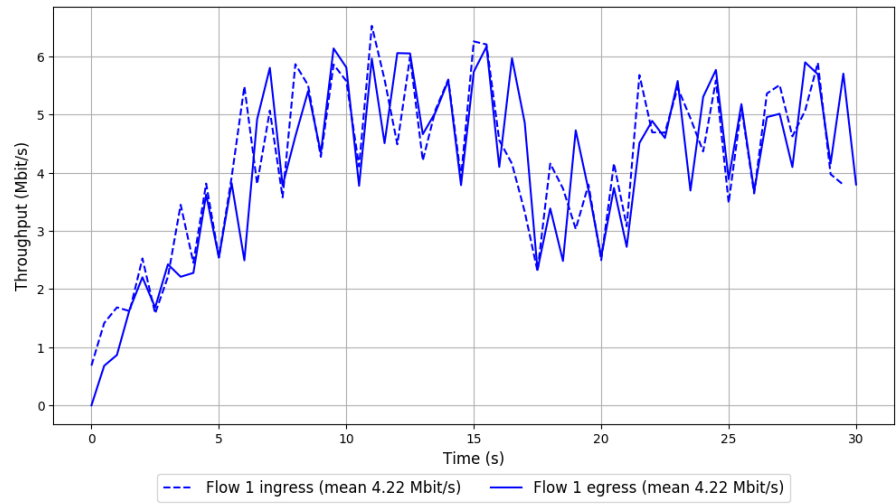


Run 4: Statistics of Sprout

Start at: 2019-02-05 02:25:09
End at: 2019-02-05 02:25:39
Local clock offset: 18.665 ms
Remote clock offset: -0.652 ms

Below is generated by plot.py at 2019-02-05 05:23:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.22 Mbit/s
95th percentile per-packet one-way delay: 87.909 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.22 Mbit/s
95th percentile per-packet one-way delay: 87.909 ms
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-02-05 02:56:37

End at: 2019-02-05 02:57:07

Local clock offset: 8.615 ms

Remote clock offset: 0.074 ms

Below is generated by plot.py at 2019-02-05 05:23:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.40 Mbit/s

95th percentile per-packet one-way delay: 87.014 ms

Loss rate: 0.00%

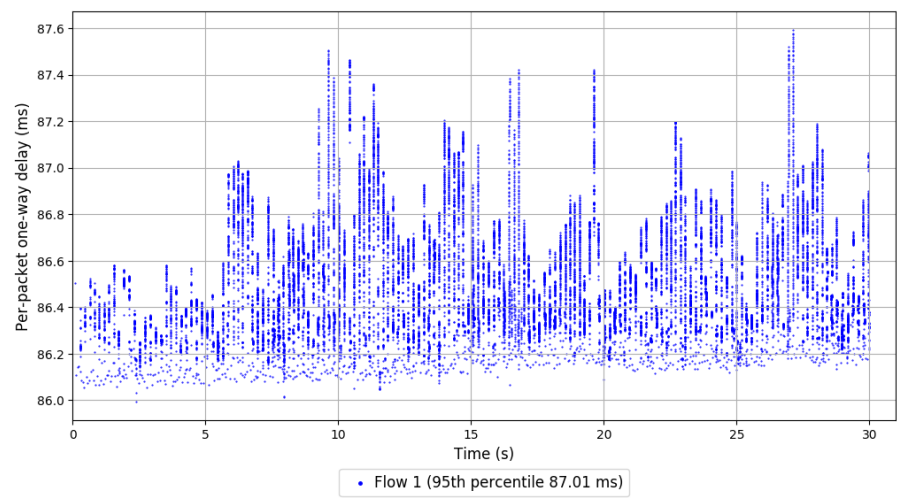
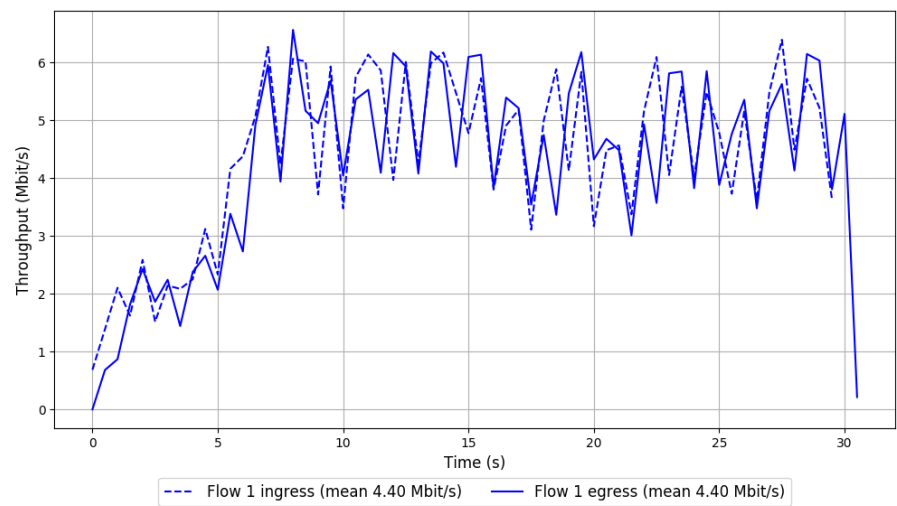
-- Flow 1:

Average throughput: 4.40 Mbit/s

95th percentile per-packet one-way delay: 87.014 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

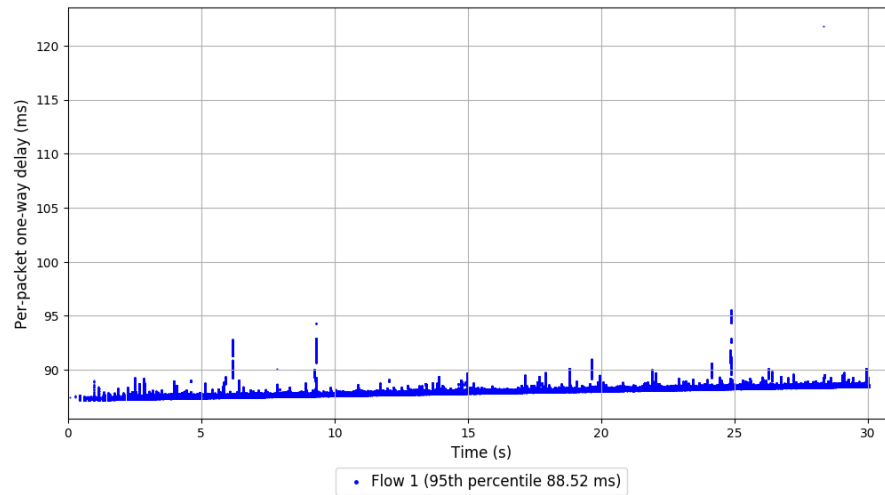
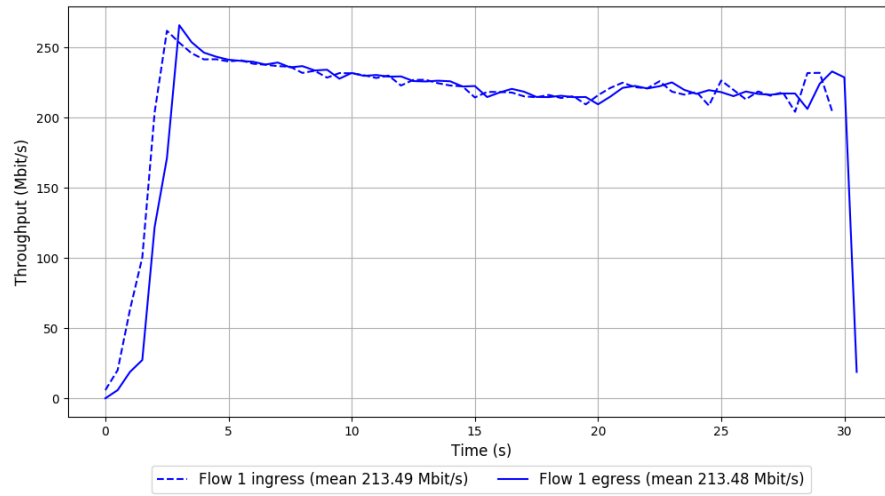



```
Run 1: Statistics of TaoVA-100x

Start at: 2019-02-05 00:52:46
End at: 2019-02-05 00:53:16
Local clock offset: 8.524 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2019-02-05 05:26:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 213.48 Mbit/s
95th percentile per-packet one-way delay: 88.524 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 213.48 Mbit/s
95th percentile per-packet one-way delay: 88.524 ms
Loss rate: 0.00%
```

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

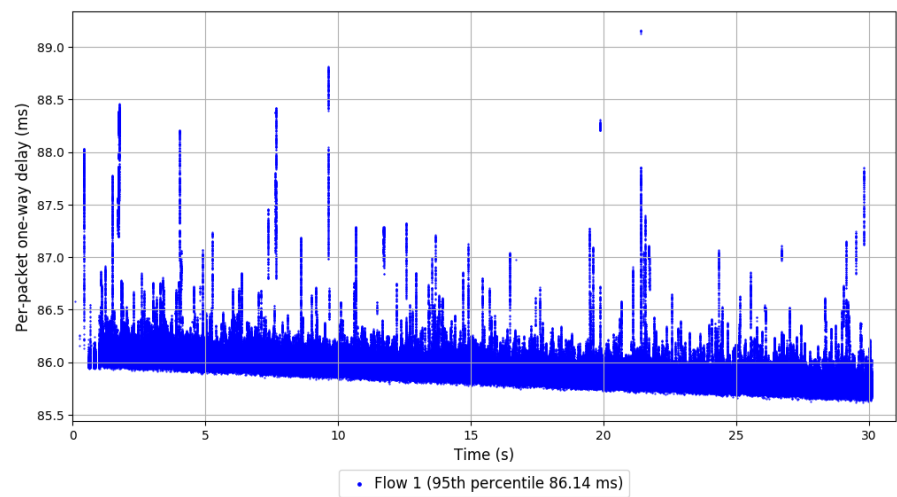
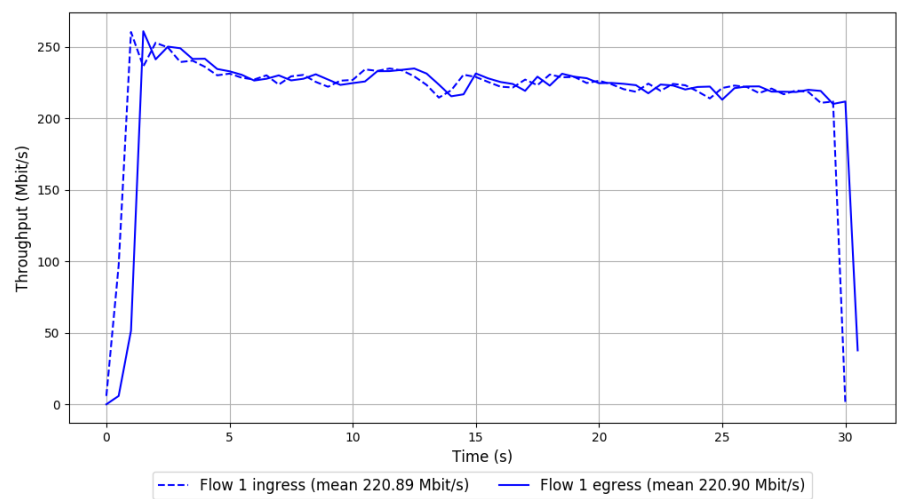


Run 2: Statistics of TaoVA-100x

Start at: 2019-02-05 01:23:47
End at: 2019-02-05 01:24:17
Local clock offset: 21.597 ms
Remote clock offset: -0.246 ms

Below is generated by plot.py at 2019-02-05 05:26:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 220.90 Mbit/s
95th percentile per-packet one-way delay: 86.144 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 220.90 Mbit/s
95th percentile per-packet one-way delay: 86.144 ms
Loss rate: 0.00%

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

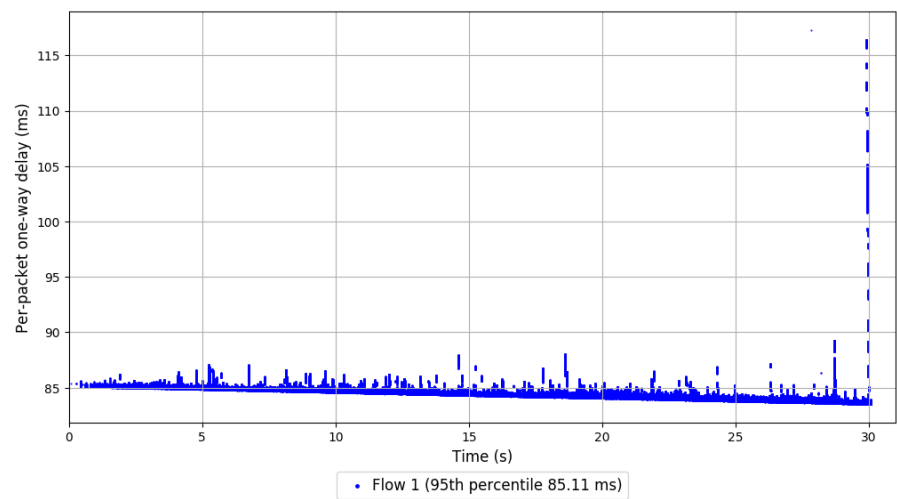
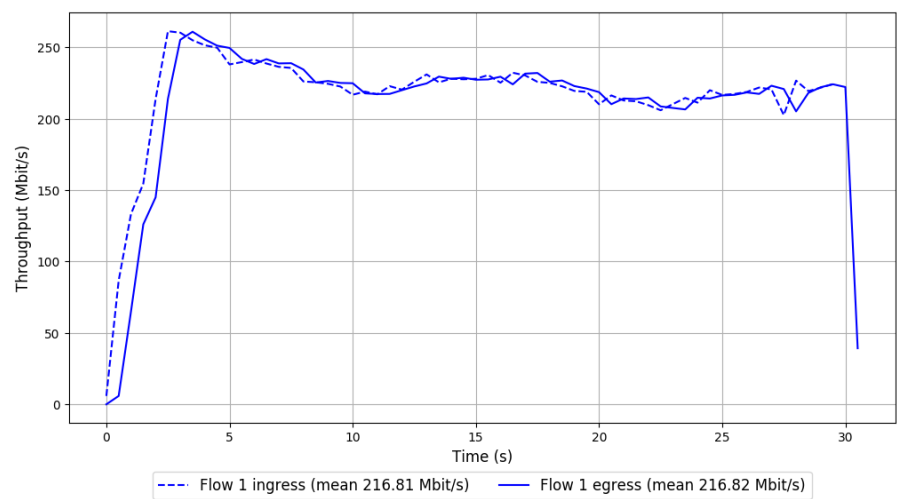


Run 3: Statistics of TaoVA-100x

Start at: 2019-02-05 01:55:13
End at: 2019-02-05 01:55:43
Local clock offset: 35.464 ms
Remote clock offset: -0.432 ms

Below is generated by plot.py at 2019-02-05 05:27:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 216.82 Mbit/s
95th percentile per-packet one-way delay: 85.110 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 216.82 Mbit/s
95th percentile per-packet one-way delay: 85.110 ms
Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-02-05 02:26:18

End at: 2019-02-05 02:26:49

Local clock offset: 19.998 ms

Remote clock offset: -0.65 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.23 Mbit/s

95th percentile per-packet one-way delay: 87.681 ms

Loss rate: 0.00%

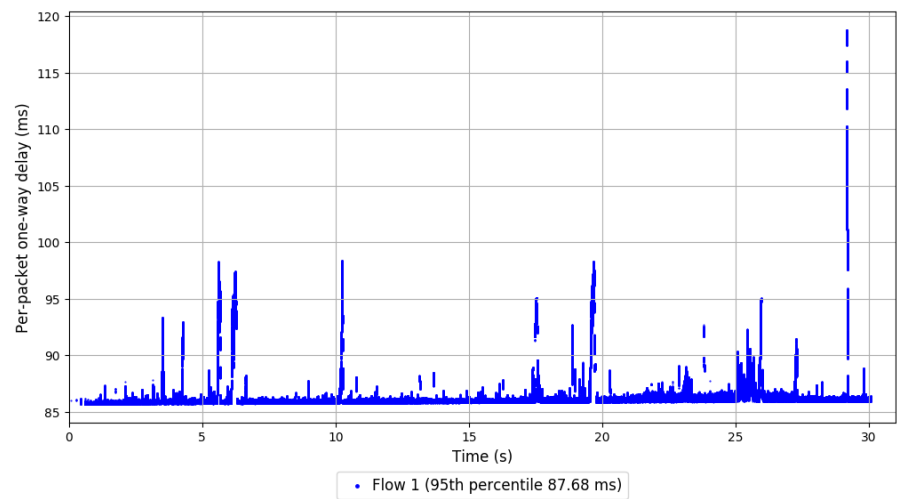
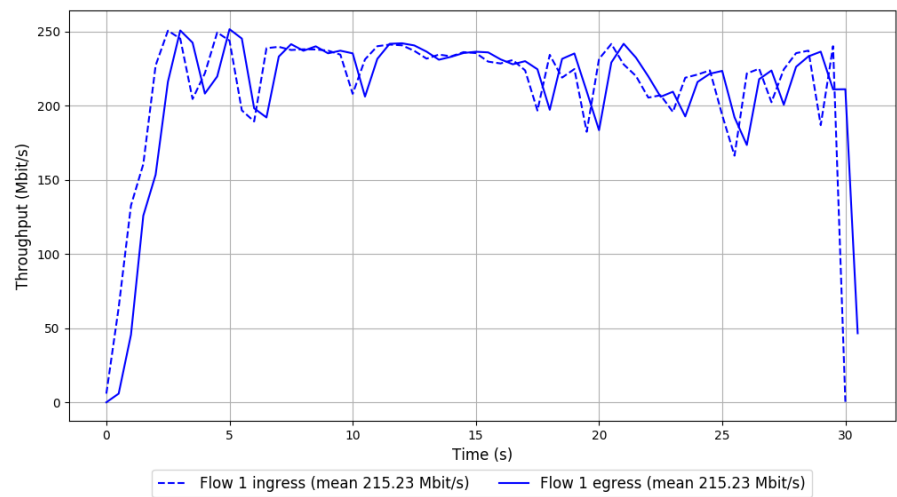
-- Flow 1:

Average throughput: 215.23 Mbit/s

95th percentile per-packet one-way delay: 87.681 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

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

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

Local clock offset: 8.614 ms

Remote clock offset: 0.028 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.70 Mbit/s

95th percentile per-packet one-way delay: 87.010 ms

Loss rate: 0.00%

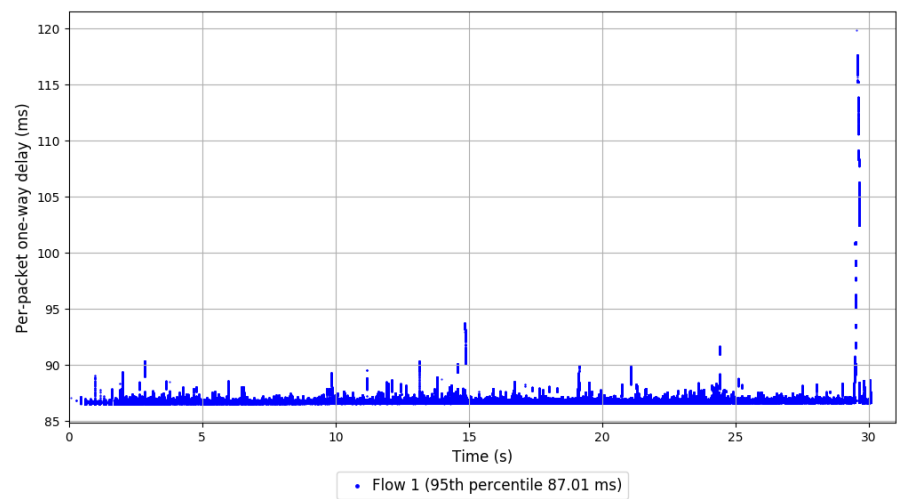
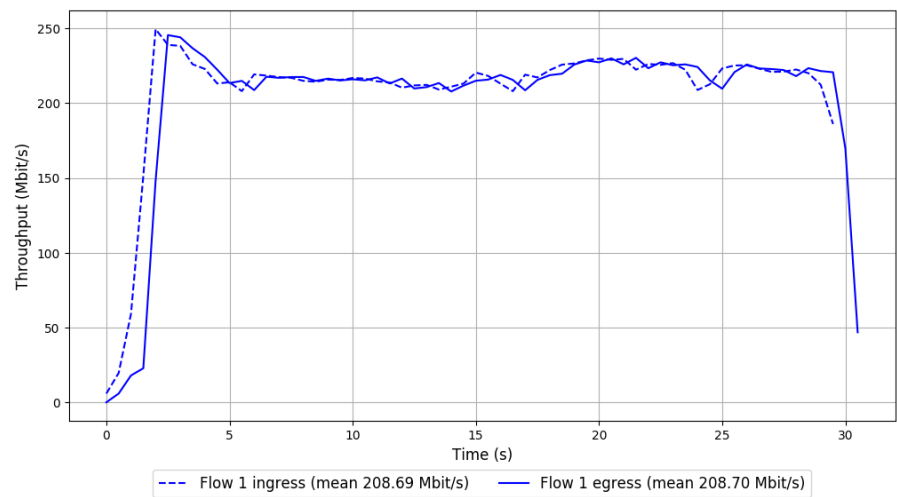
-- Flow 1:

Average throughput: 208.70 Mbit/s

95th percentile per-packet one-way delay: 87.010 ms

Loss rate: 0.00%

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

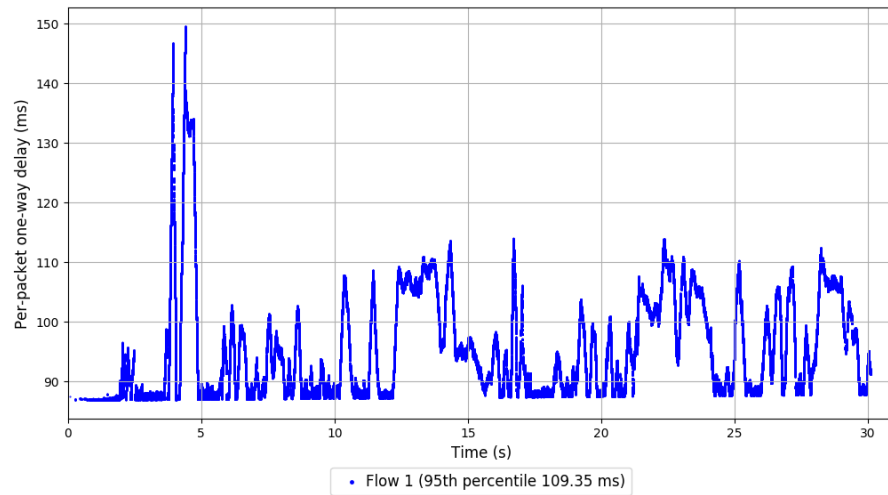
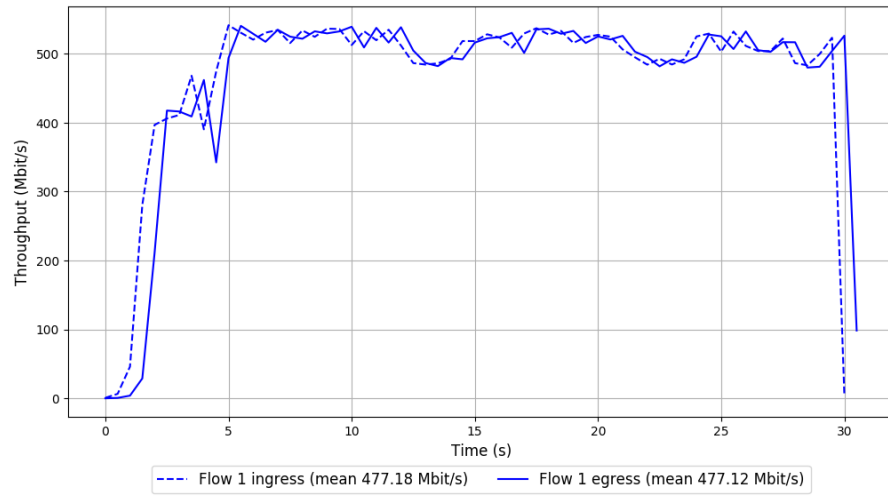


Run 1: Statistics of TCP Vegas

Start at: 2019-02-05 01:01:31
End at: 2019-02-05 01:02:01
Local clock offset: 16.156 ms
Remote clock offset: -0.062 ms

Below is generated by plot.py at 2019-02-05 05:29:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 477.12 Mbit/s
95th percentile per-packet one-way delay: 109.353 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 477.12 Mbit/s
95th percentile per-packet one-way delay: 109.353 ms
Loss rate: 0.01%

Run 1: Report of TCP Vegas — Data Link

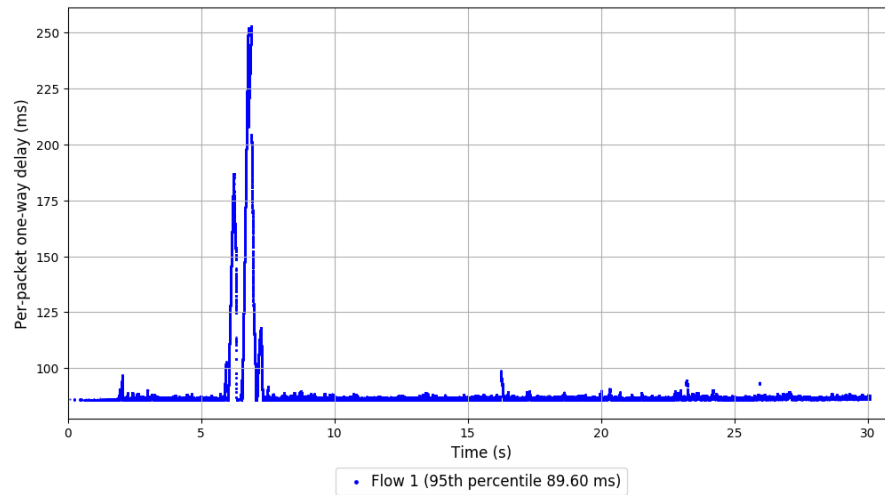
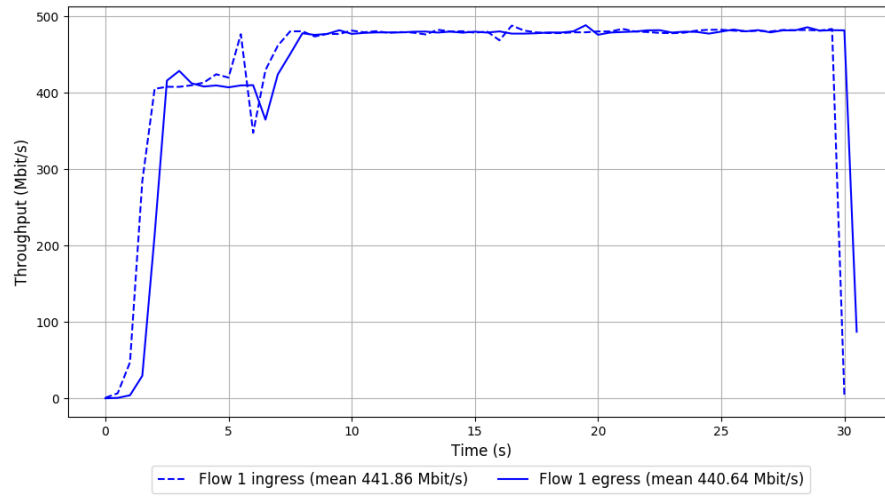


Run 2: Statistics of TCP Vegas

Start at: 2019-02-05 01:32:38
End at: 2019-02-05 01:33:08
Local clock offset: 21.321 ms
Remote clock offset: -0.327 ms

Below is generated by plot.py at 2019-02-05 05:30:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 440.64 Mbit/s
95th percentile per-packet one-way delay: 89.597 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 440.64 Mbit/s
95th percentile per-packet one-way delay: 89.597 ms
Loss rate: 0.27%

Run 2: Report of TCP Vegas — Data Link

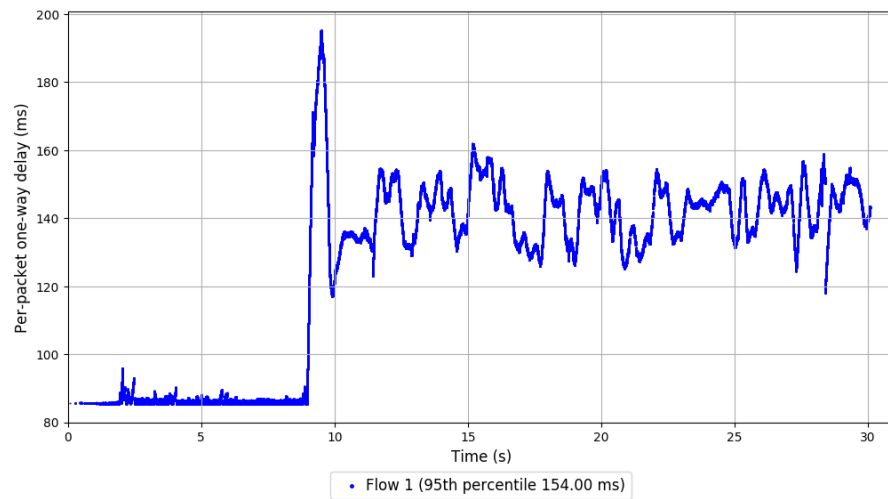
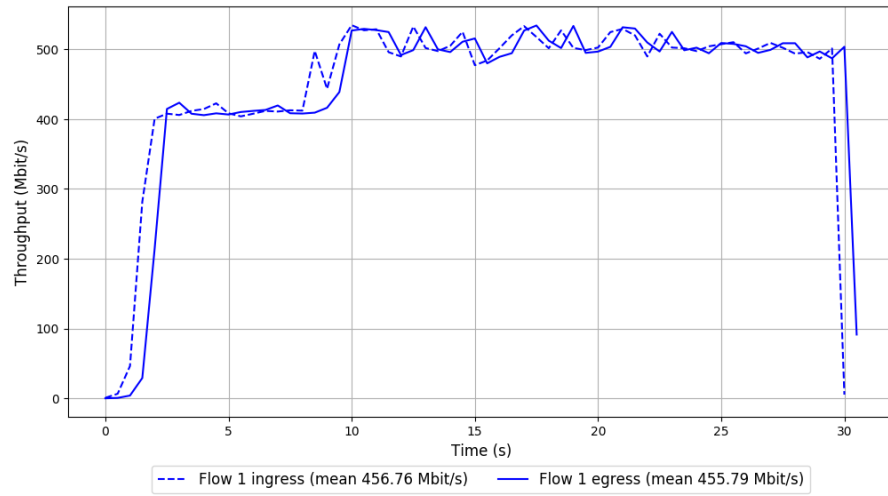


Run 3: Statistics of TCP Vegas

Start at: 2019-02-05 02:03:55
End at: 2019-02-05 02:04:25
Local clock offset: 18.752 ms
Remote clock offset: -0.496 ms

Below is generated by plot.py at 2019-02-05 05:35:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 455.79 Mbit/s
95th percentile per-packet one-way delay: 154.001 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 455.79 Mbit/s
95th percentile per-packet one-way delay: 154.001 ms
Loss rate: 0.21%

Run 3: Report of TCP Vegas — Data Link

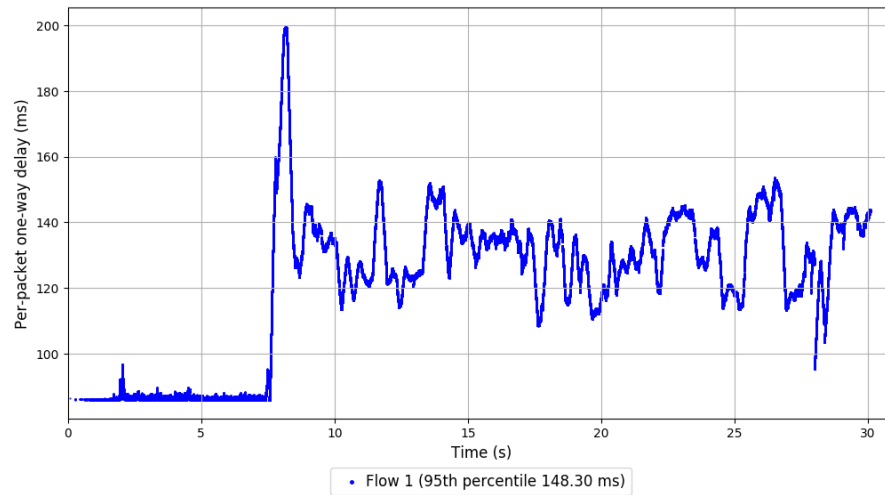
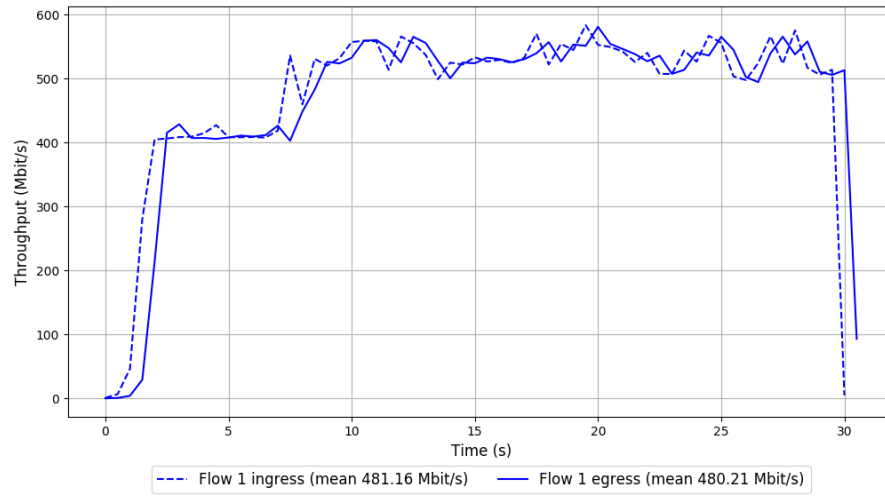


Run 4: Statistics of TCP Vegas

Start at: 2019-02-05 02:35:03
End at: 2019-02-05 02:35:33
Local clock offset: 10.909 ms
Remote clock offset: -0.281 ms

Below is generated by plot.py at 2019-02-05 05:37:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 480.21 Mbit/s
95th percentile per-packet one-way delay: 148.296 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 480.21 Mbit/s
95th percentile per-packet one-way delay: 148.296 ms
Loss rate: 0.19%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-02-05 03:06:27

End at: 2019-02-05 03:06:57

Local clock offset: 6.132 ms

Remote clock offset: 0.034 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 468.80 Mbit/s

95th percentile per-packet one-way delay: 104.985 ms

Loss rate: 0.00%

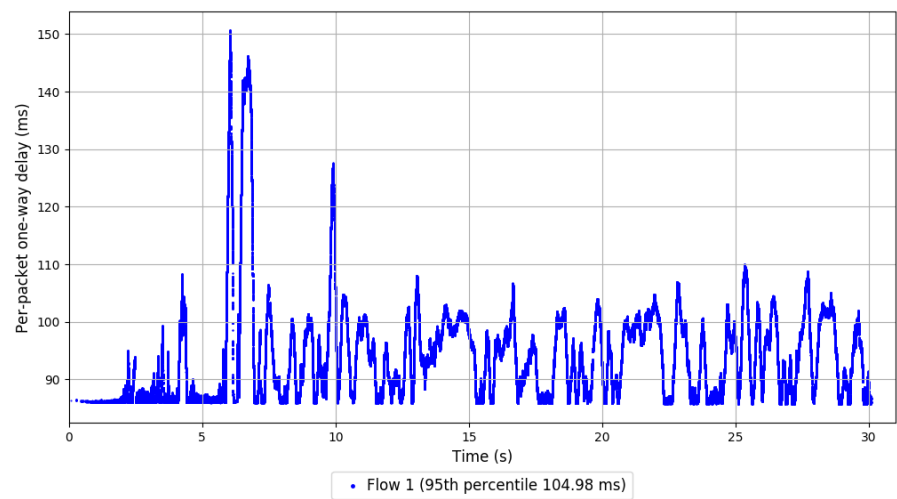
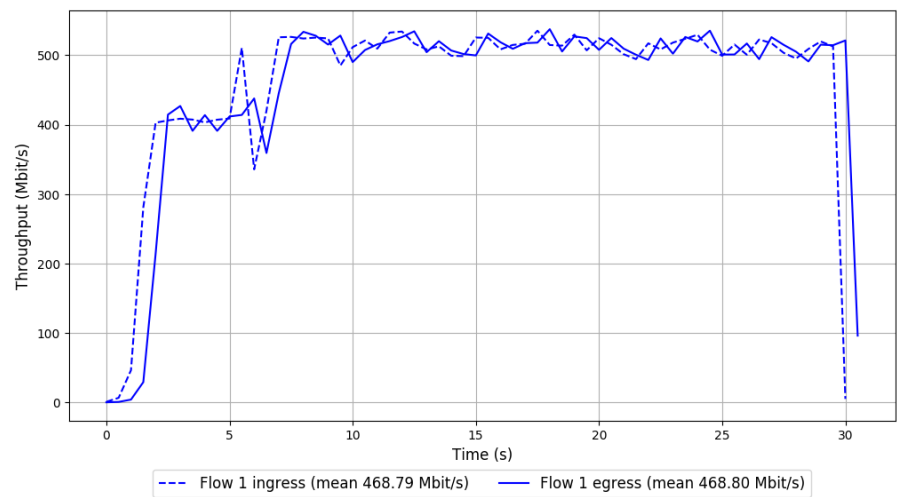
-- Flow 1:

Average throughput: 468.80 Mbit/s

95th percentile per-packet one-way delay: 104.985 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link

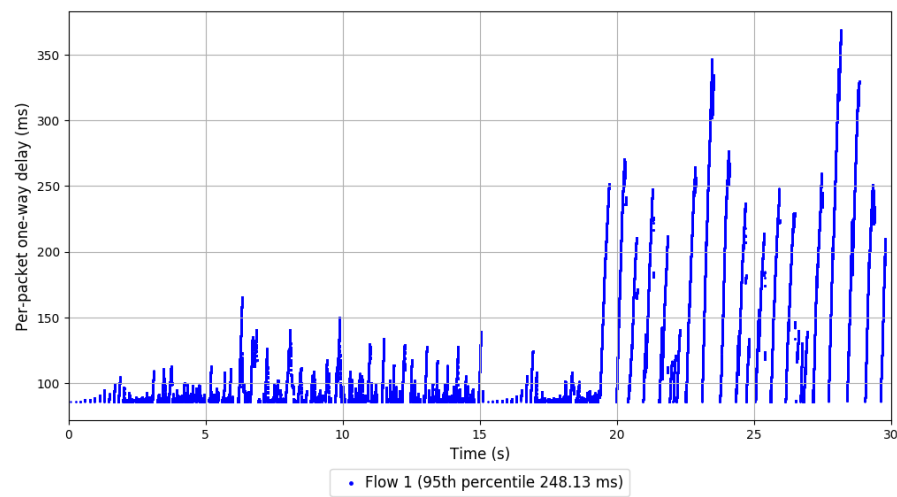
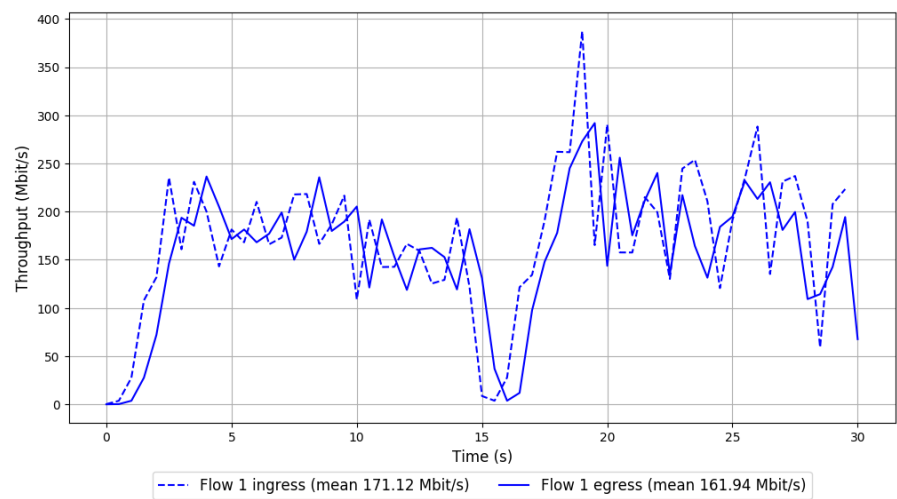


Run 1: Statistics of Verus

Start at: 2019-02-05 01:06:18
End at: 2019-02-05 01:06:48
Local clock offset: 13.885 ms
Remote clock offset: -0.099 ms

Below is generated by plot.py at 2019-02-05 05:37:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 161.94 Mbit/s
95th percentile per-packet one-way delay: 248.132 ms
Loss rate: 5.37%
-- Flow 1:
Average throughput: 161.94 Mbit/s
95th percentile per-packet one-way delay: 248.132 ms
Loss rate: 5.37%

Run 1: Report of Verus — Data Link

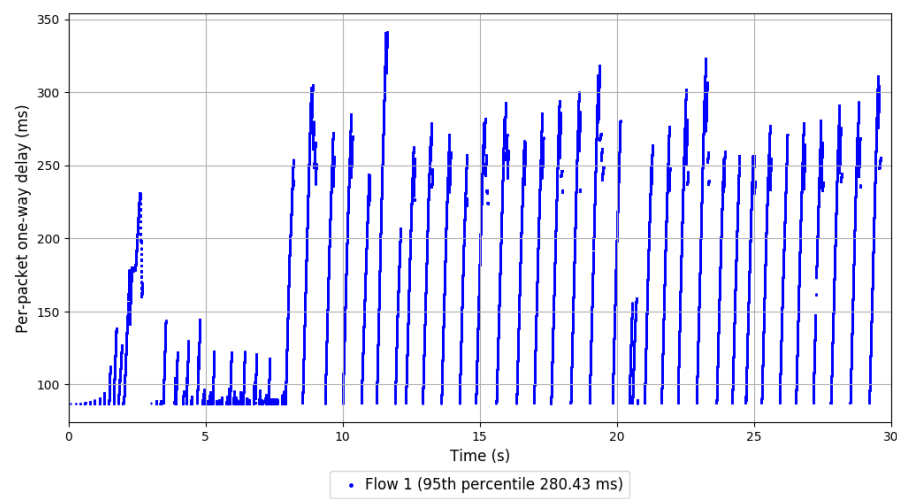
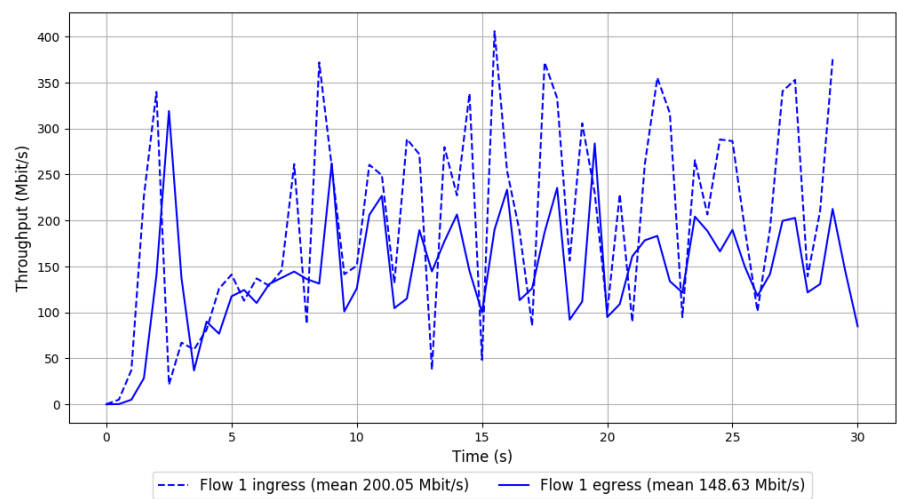


Run 2: Statistics of Verus

Start at: 2019-02-05 01:37:22
End at: 2019-02-05 01:37:52
Local clock offset: 23.928 ms
Remote clock offset: -0.353 ms

Below is generated by plot.py at 2019-02-05 05:37:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 148.63 Mbit/s
95th percentile per-packet one-way delay: 280.430 ms
Loss rate: 25.32%
-- Flow 1:
Average throughput: 148.63 Mbit/s
95th percentile per-packet one-way delay: 280.430 ms
Loss rate: 25.32%

Run 2: Report of Verus — Data Link

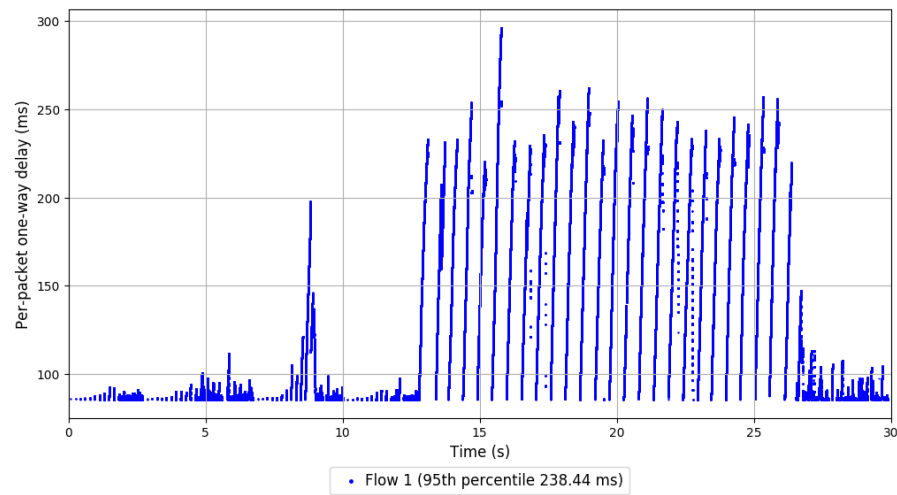
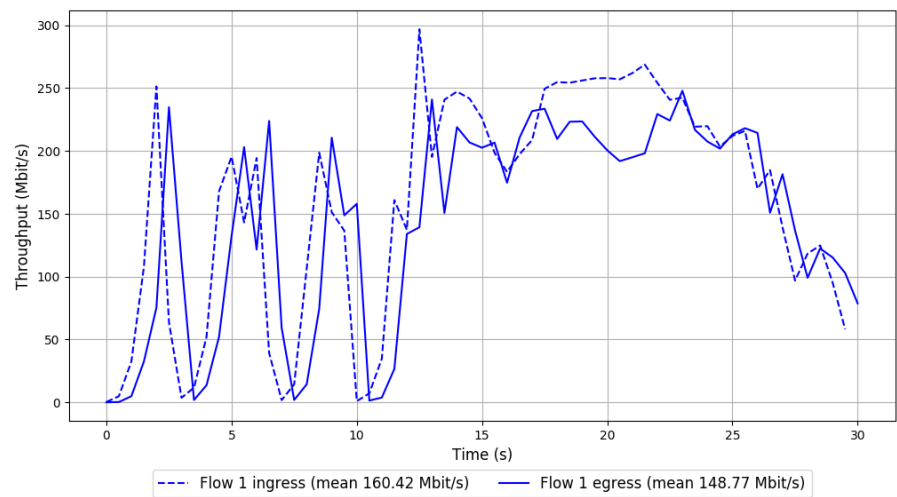


Run 3: Statistics of Verus

Start at: 2019-02-05 02:08:38
End at: 2019-02-05 02:09:08
Local clock offset: 16.312 ms
Remote clock offset: -0.56 ms

Below is generated by plot.py at 2019-02-05 05:37:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 148.77 Mbit/s
95th percentile per-packet one-way delay: 238.443 ms
Loss rate: 7.27%
-- Flow 1:
Average throughput: 148.77 Mbit/s
95th percentile per-packet one-way delay: 238.443 ms
Loss rate: 7.27%

Run 3: Report of Verus — Data Link

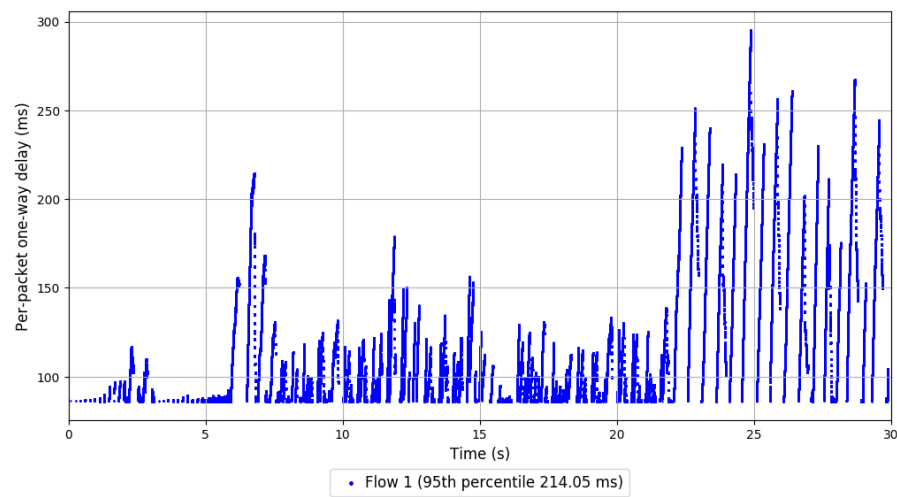
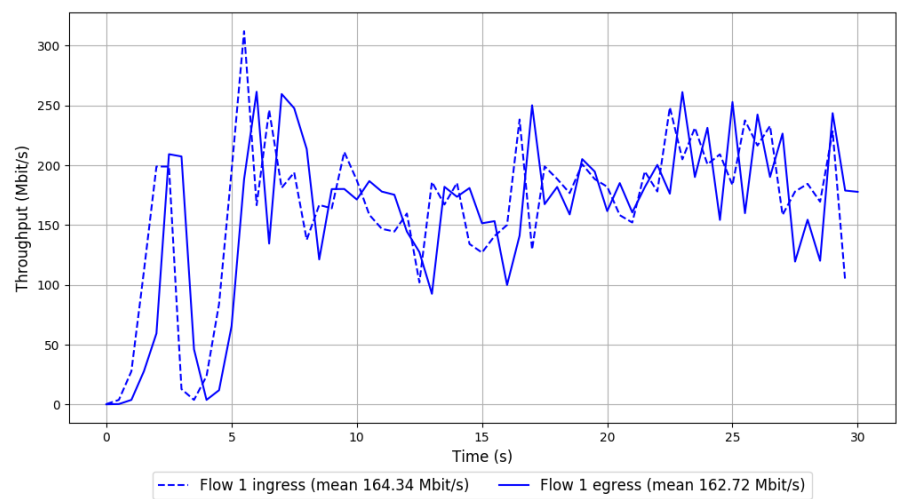


Run 4: Statistics of Verus

Start at: 2019-02-05 02:39:51
End at: 2019-02-05 02:40:21
Local clock offset: 8.786 ms
Remote clock offset: -0.104 ms

Below is generated by plot.py at 2019-02-05 05:37:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 162.72 Mbit/s
95th percentile per-packet one-way delay: 214.049 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 162.72 Mbit/s
95th percentile per-packet one-way delay: 214.049 ms
Loss rate: 0.99%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-02-05 03:11:14

End at: 2019-02-05 03:11:44

Local clock offset: 3.959 ms

Remote clock offset: 0.068 ms

Below is generated by plot.py at 2019-02-05 05:37:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 144.79 Mbit/s

95th percentile per-packet one-way delay: 146.255 ms

Loss rate: 0.00%

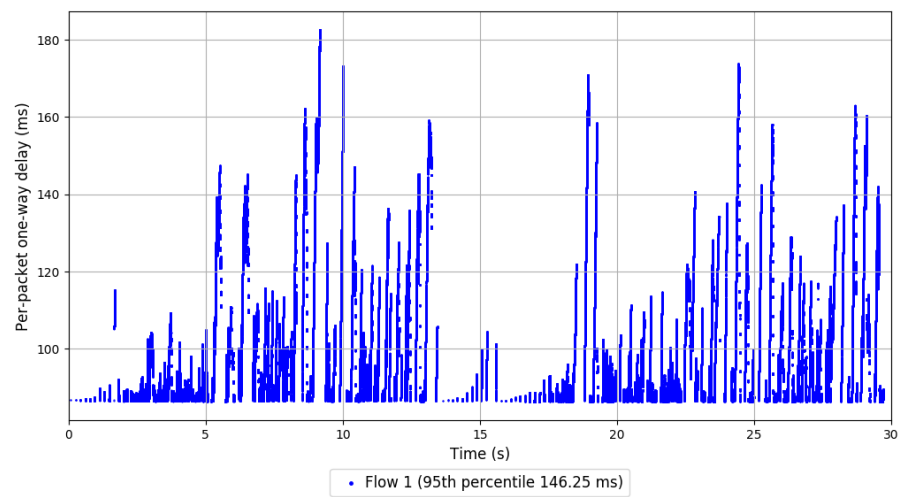
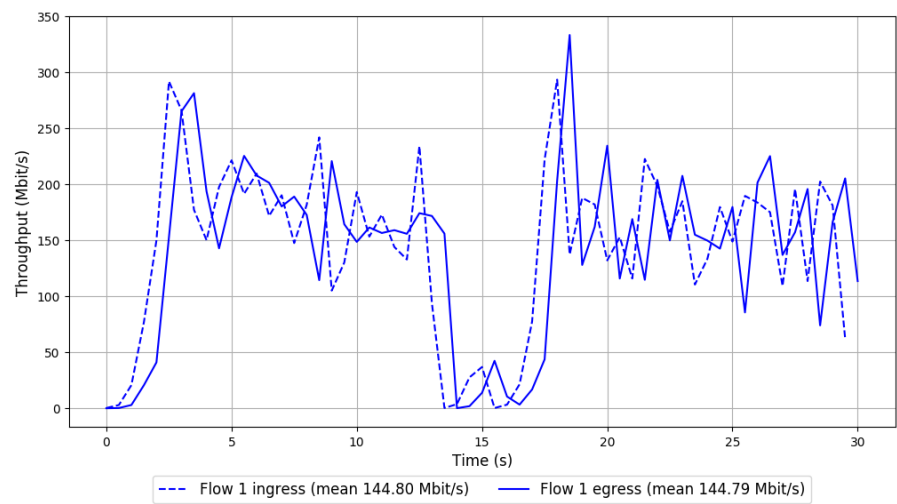
-- Flow 1:

Average throughput: 144.79 Mbit/s

95th percentile per-packet one-way delay: 146.255 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-02-05 01:10:56

End at: 2019-02-05 01:11:26

Local clock offset: 15.471 ms

Remote clock offset: -0.15 ms

Below is generated by plot.py at 2019-02-05 05:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 243.26 Mbit/s

95th percentile per-packet one-way delay: 90.231 ms

Loss rate: 0.00%

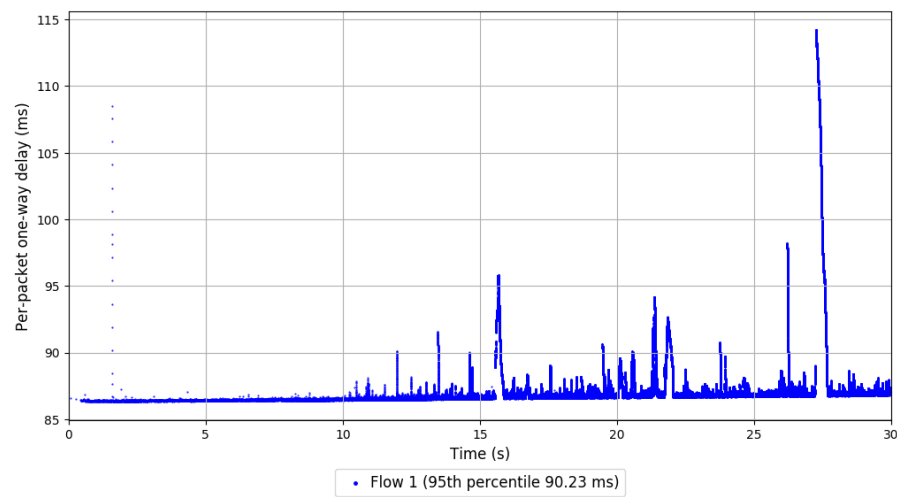
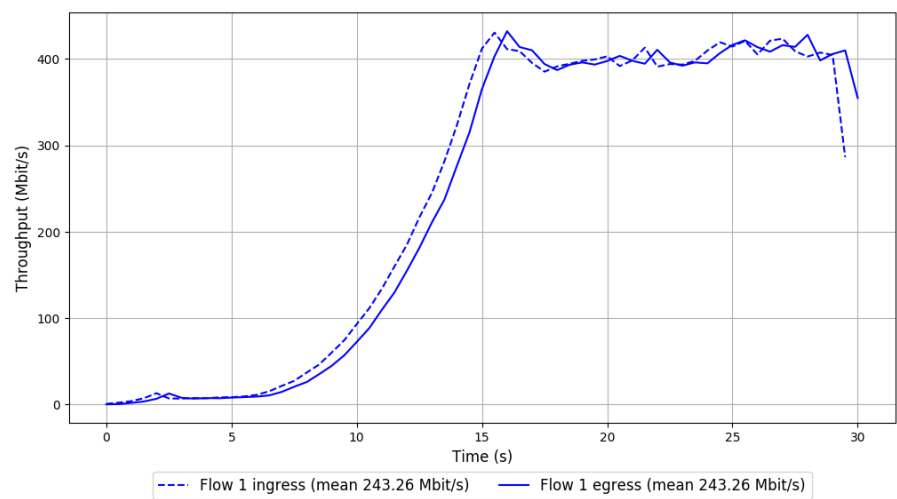
-- Flow 1:

Average throughput: 243.26 Mbit/s

95th percentile per-packet one-way delay: 90.231 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link

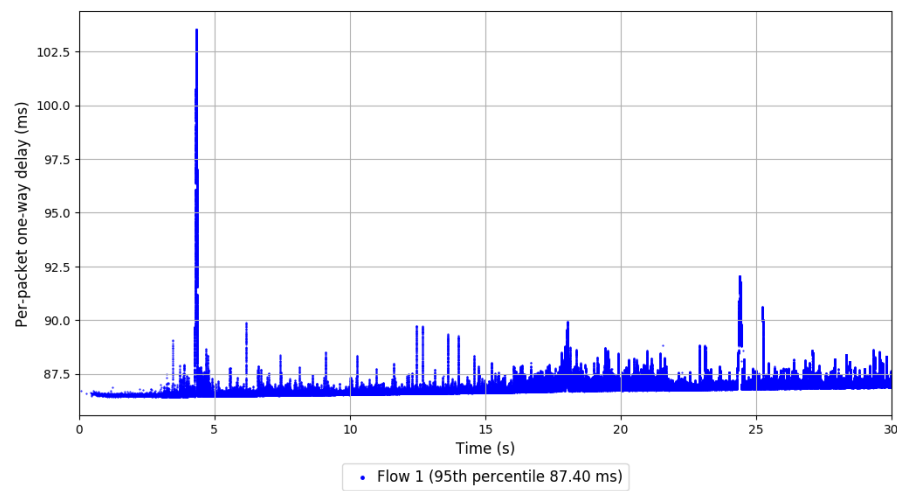
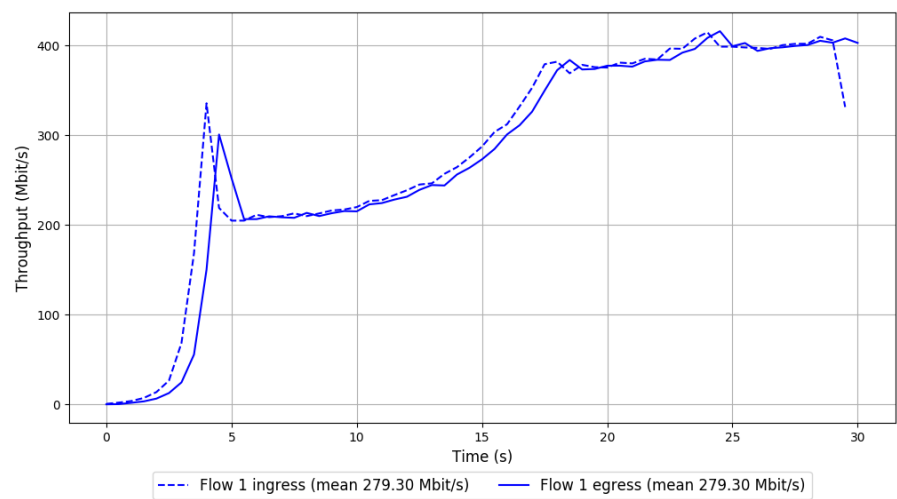


Run 2: Statistics of PCC-Vivace

Start at: 2019-02-05 01:41:58
End at: 2019-02-05 01:42:28
Local clock offset: 28.19 ms
Remote clock offset: -0.321 ms

Below is generated by plot.py at 2019-02-05 05:39:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 279.30 Mbit/s
95th percentile per-packet one-way delay: 87.403 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 279.30 Mbit/s
95th percentile per-packet one-way delay: 87.403 ms
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link

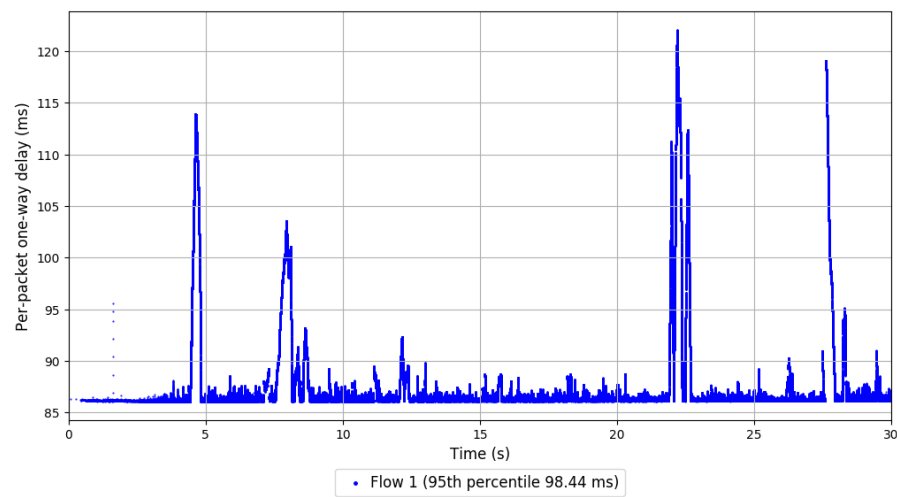
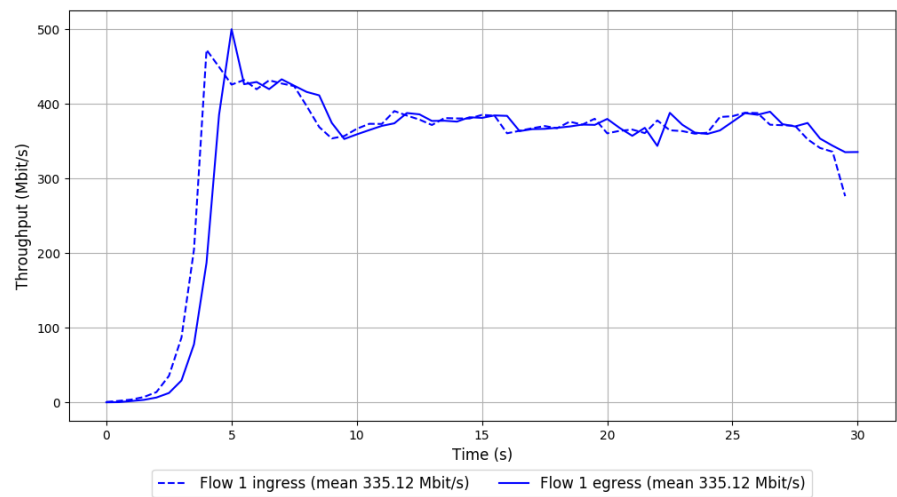


Run 3: Statistics of PCC-Vivace

Start at: 2019-02-05 02:13:08
End at: 2019-02-05 02:13:38
Local clock offset: 15.217 ms
Remote clock offset: -0.572 ms

Below is generated by plot.py at 2019-02-05 05:40:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 335.12 Mbit/s
95th percentile per-packet one-way delay: 98.438 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 335.12 Mbit/s
95th percentile per-packet one-way delay: 98.438 ms
Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-02-05 02:44:28

End at: 2019-02-05 02:44:58

Local clock offset: 7.721 ms

Remote clock offset: -0.048 ms

Below is generated by plot.py at 2019-02-05 05:40:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 286.87 Mbit/s

95th percentile per-packet one-way delay: 175.376 ms

Loss rate: 0.41%

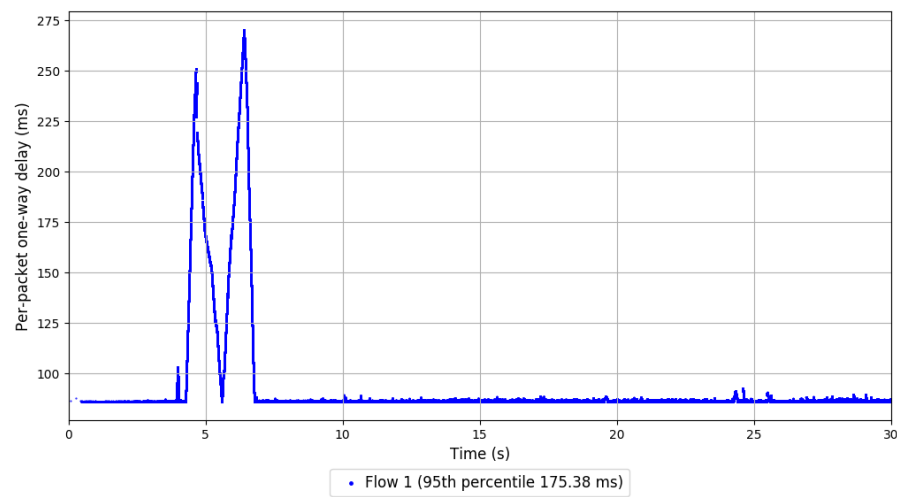
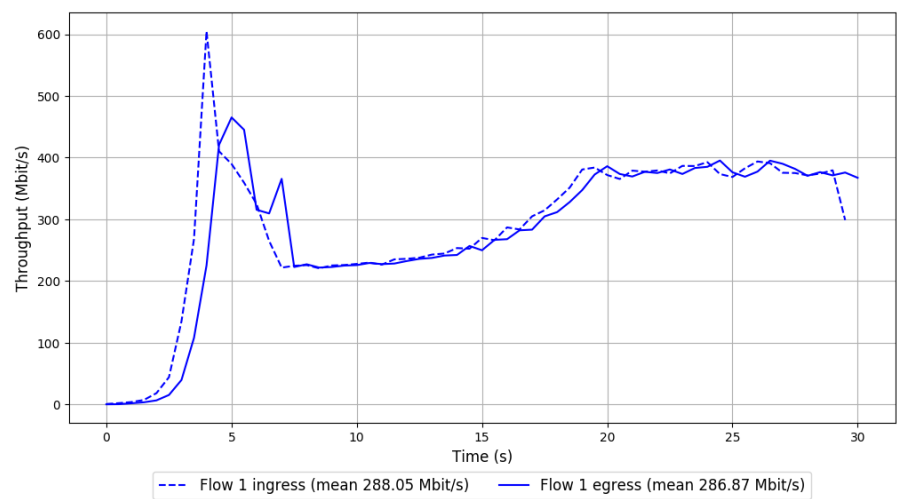
-- Flow 1:

Average throughput: 286.87 Mbit/s

95th percentile per-packet one-way delay: 175.376 ms

Loss rate: 0.41%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-02-05 03:15:47

End at: 2019-02-05 03:16:17

Local clock offset: 3.047 ms

Remote clock offset: 0.06 ms

Below is generated by plot.py at 2019-02-05 05:40:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 338.59 Mbit/s

95th percentile per-packet one-way delay: 112.508 ms

Loss rate: 0.17%

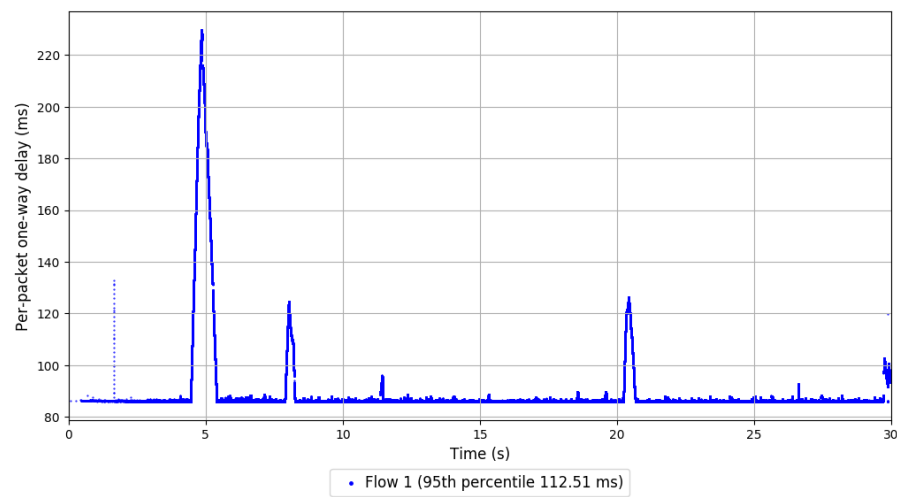
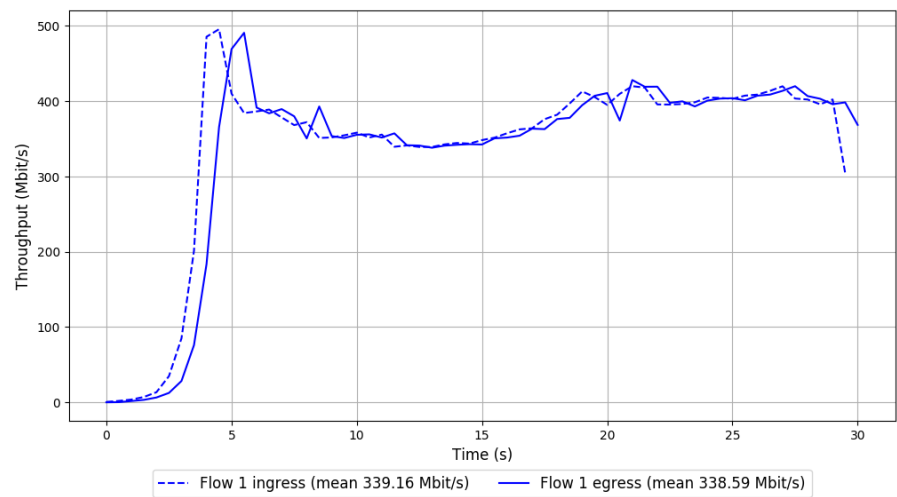
-- Flow 1:

Average throughput: 338.59 Mbit/s

95th percentile per-packet one-way delay: 112.508 ms

Loss rate: 0.17%

Run 5: Report of PCC-Vivace — Data Link

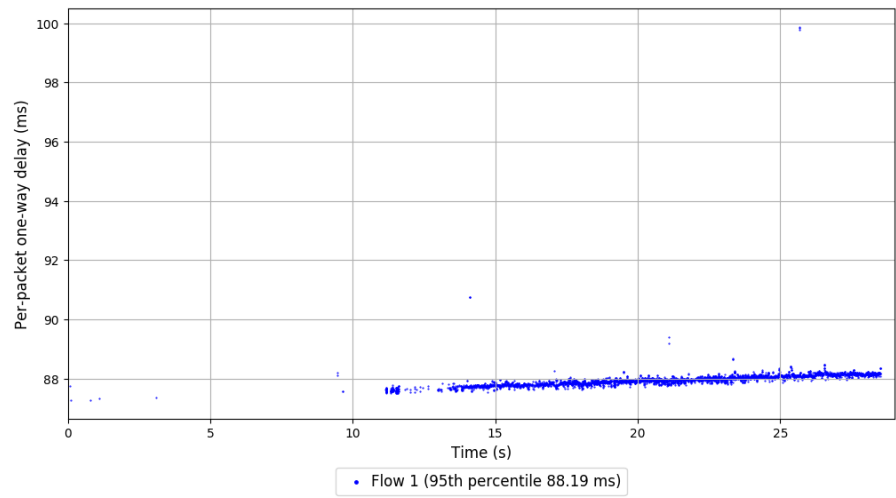
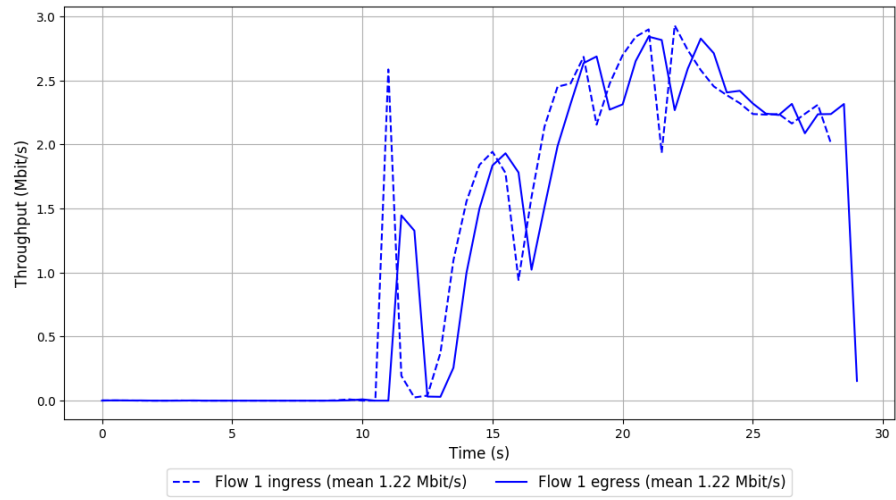


Run 1: Statistics of WebRTC media

Start at: 2019-02-05 01:00:22
End at: 2019-02-05 01:00:52
Local clock offset: 13.817 ms
Remote clock offset: -0.072 ms

Below is generated by plot.py at 2019-02-05 05:40:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 88.186 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 88.186 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

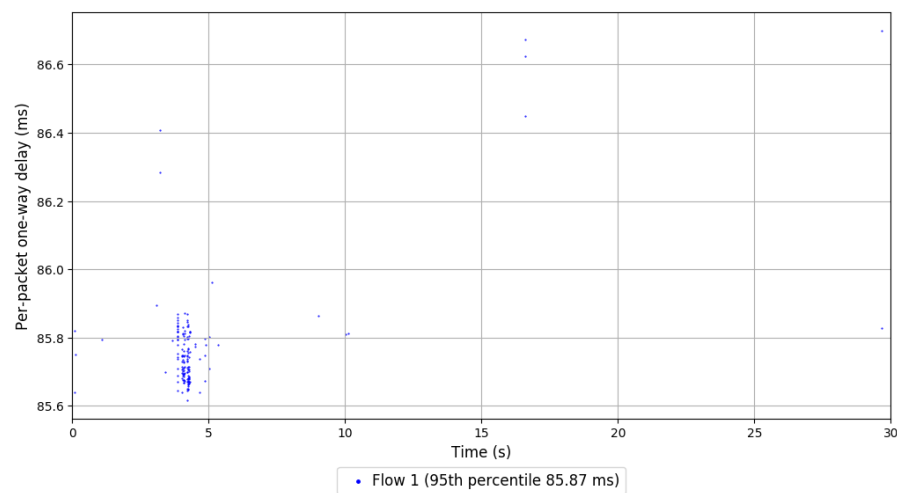
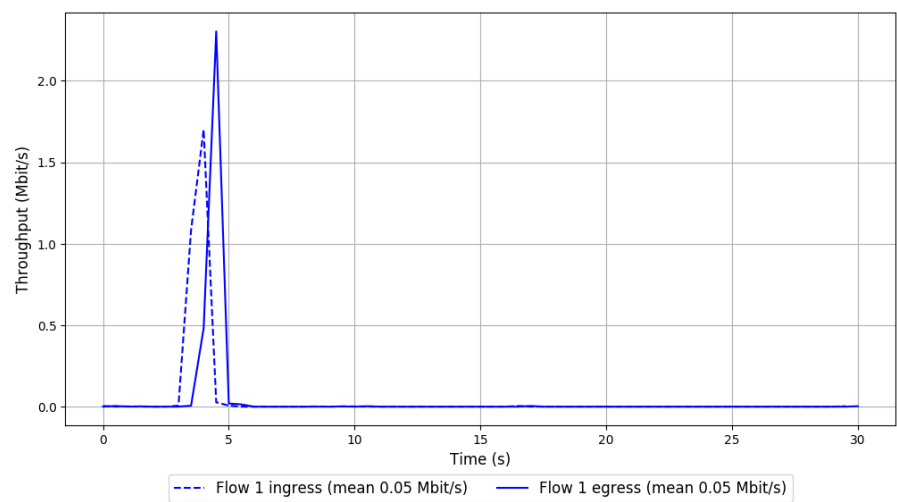


Run 2: Statistics of WebRTC media

Start at: 2019-02-05 01:31:29
End at: 2019-02-05 01:31:59
Local clock offset: 21.017 ms
Remote clock offset: -0.311 ms

Below is generated by plot.py at 2019-02-05 05:40:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 85.873 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 85.873 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

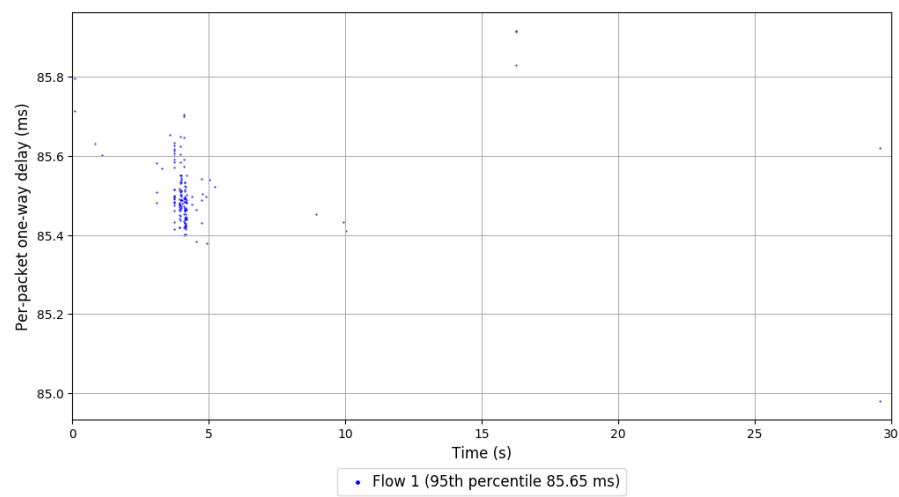
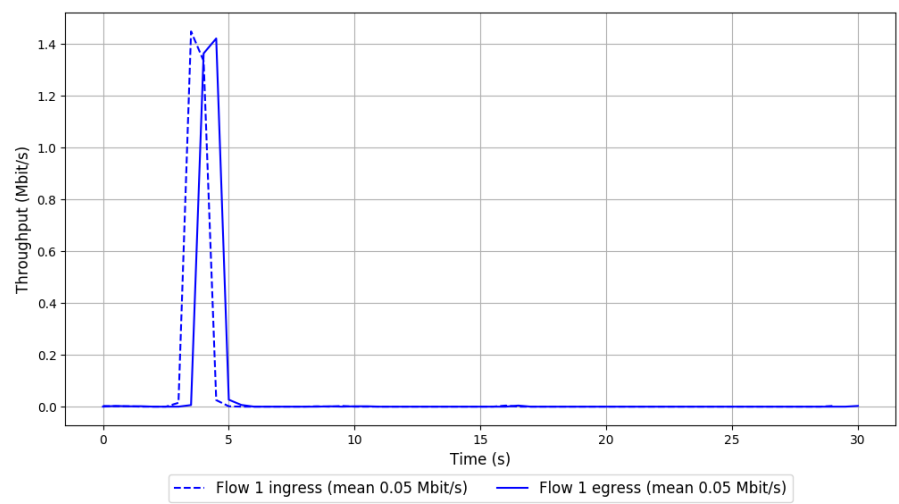


Run 3: Statistics of WebRTC media

Start at: 2019-02-05 02:02:46
End at: 2019-02-05 02:03:16
Local clock offset: 19.62 ms
Remote clock offset: -0.515 ms

Below is generated by plot.py at 2019-02-05 05:40:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 85.649 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 85.649 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

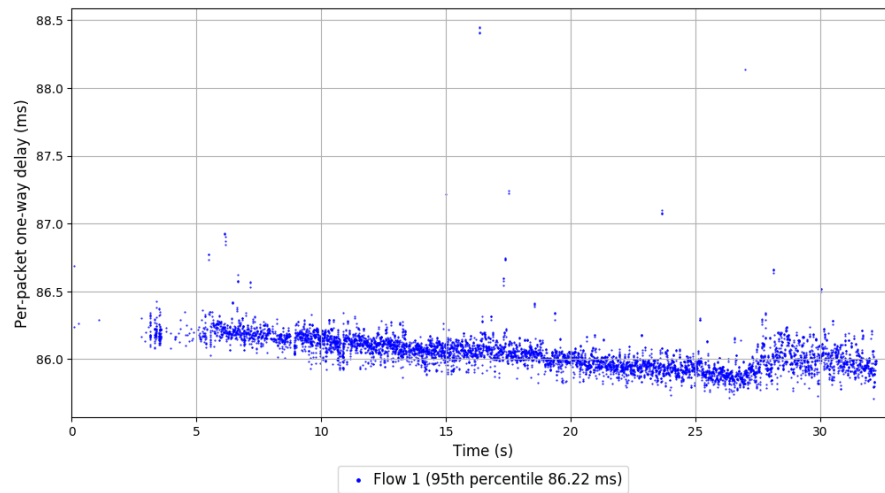
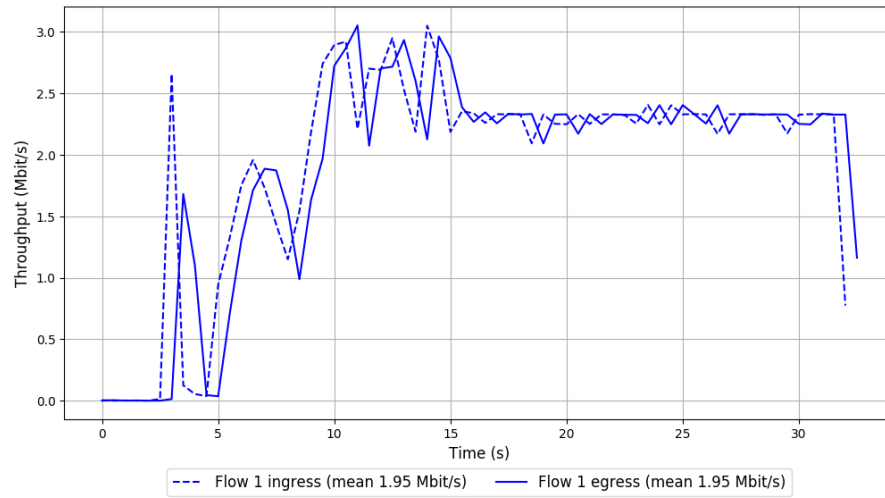


Run 4: Statistics of WebRTC media

Start at: 2019-02-05 02:33:54
End at: 2019-02-05 02:34:24
Local clock offset: 11.832 ms
Remote clock offset: -0.341 ms

Below is generated by plot.py at 2019-02-05 05:40:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 86.225 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 86.225 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

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

End at: 2019-02-05 03:05:48

Local clock offset: 7.083 ms

Remote clock offset: 0.082 ms

Below is generated by plot.py at 2019-02-05 05:40:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.453 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.453 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

