

Pantheon Report

Generated at 2019-05-30 08:31:05 (UTC).

Data path: GCE London on `ens4` (*remote*) → GCE Sydney on `ens4` (*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.google.com` and have been applied to correct the timestamps in logs.

System info:

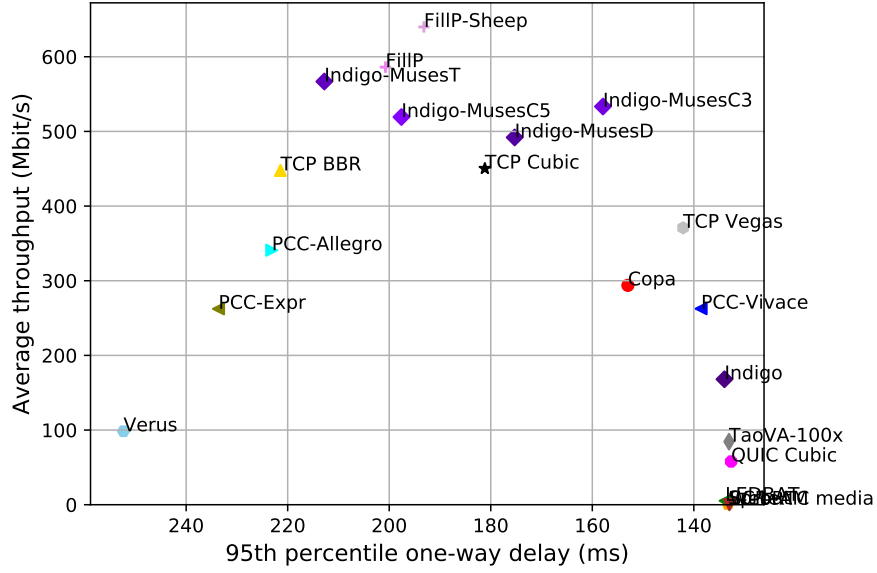
```
Linux 4.15.0-1029-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

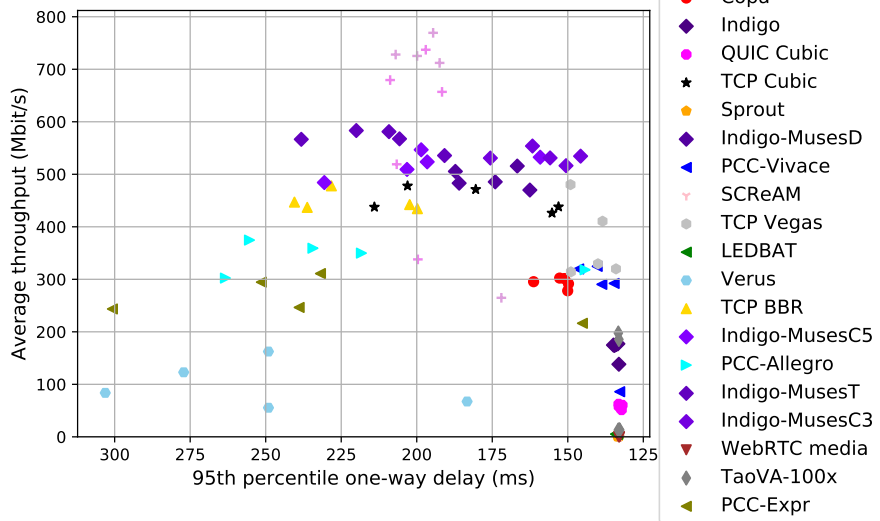
```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
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 London to GCE Sydney, 5 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE London to GCE Sydney, 5 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s)	mean 95th-%ile delay (ms)	mean loss rate (%)
		flow 1	flow 1	flow 1
TCP BBR	5	447.78	221.42	1.96
Copa	5	293.78	152.99	1.00
TCP Cubic	5	450.23	181.17	1.03
FillP	5	586.10	200.74	4.03
FillP-Sheep	5	639.91	193.17	2.37
Indigo	5	168.02	133.97	0.86
Indigo-MusesC3	5	533.35	157.90	1.09
Indigo-MusesC5	5	519.27	197.60	1.25
Indigo-MusesD	5	491.96	175.29	1.17
Indigo-MusesT	5	566.84	212.78	1.32
LEDBAT	5	5.22	133.83	1.78
PCC-Allegro	5	340.85	223.13	3.67
PCC-Expr	5	262.33	233.64	4.25
QUIC Cubic	5	57.90	132.66	1.34
SReAM	5	0.15	132.94	0.85
Sprout	5	0.60	133.27	0.78
TaoVA-100x	5	84.49	133.08	0.92
TCP Vegas	5	370.89	142.12	1.02
Verus	5	98.37	252.35	6.07
PCC-Vivace	5	262.57	138.58	1.16
WebRTC media	4	0.05	133.01	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-05-30 04:46:44
End at: 2019-05-30 04:47:14
Local clock offset: -0.245 ms
Remote clock offset: -0.188 ms

Below is generated by plot.py at 2019-05-30 07:12:05

Datalink statistics

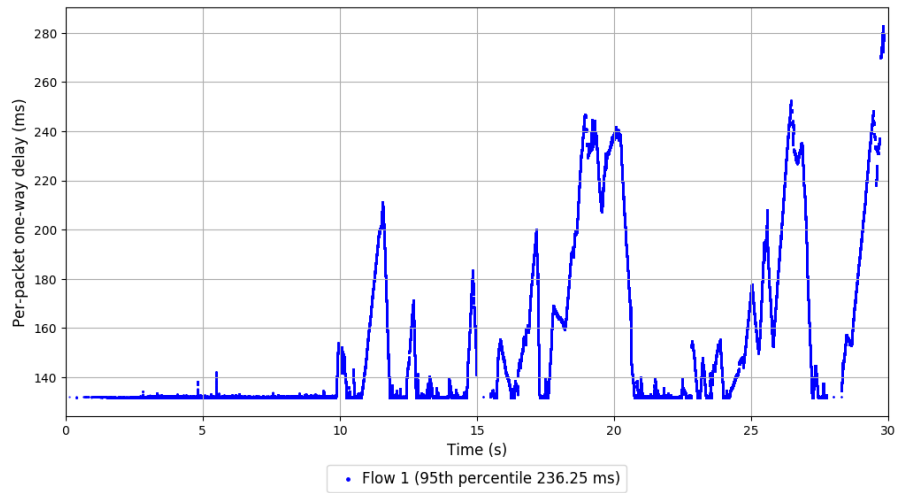
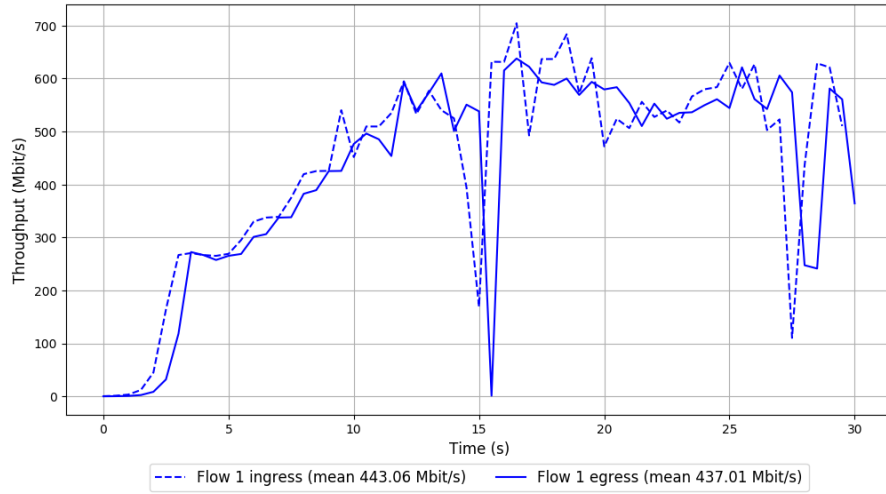
-- Total of 1 flow:

Average throughput: 437.01 Mbit/s
95th percentile per-packet one-way delay: 236.247 ms
Loss rate: 2.24%

-- Flow 1:

Average throughput: 437.01 Mbit/s
95th percentile per-packet one-way delay: 236.247 ms
Loss rate: 2.24%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-05-30 05:17:58

End at: 2019-05-30 05:18:29

Local clock offset: -0.018 ms

Remote clock offset: -0.136 ms

Below is generated by plot.py at 2019-05-30 07:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 447.04 Mbit/s

95th percentile per-packet one-way delay: 240.481 ms

Loss rate: 3.19%

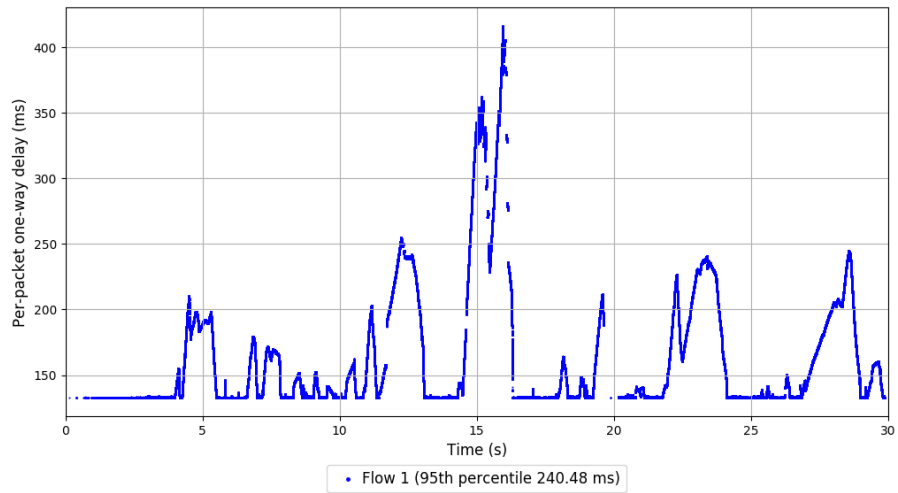
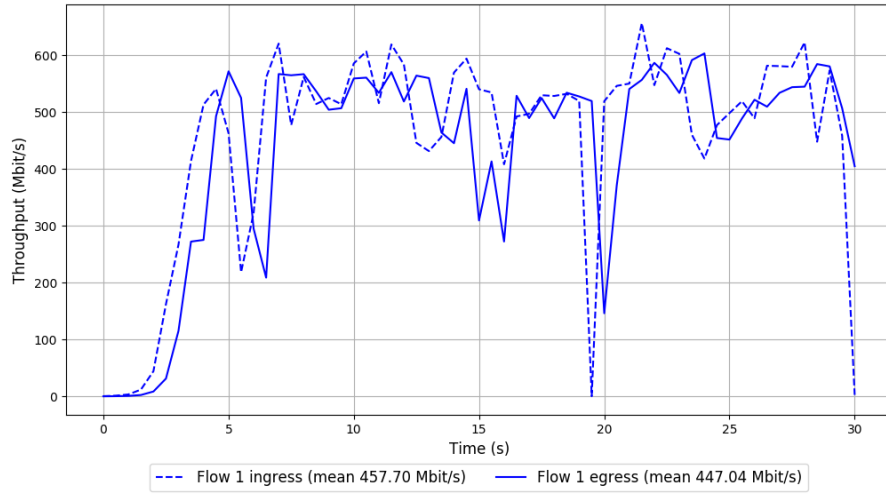
-- Flow 1:

Average throughput: 447.04 Mbit/s

95th percentile per-packet one-way delay: 240.481 ms

Loss rate: 3.19%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-05-30 05:48:52

End at: 2019-05-30 05:49:22

Local clock offset: 0.057 ms

Remote clock offset: -0.081 ms

Below is generated by plot.py at 2019-05-30 07:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 442.35 Mbit/s

95th percentile per-packet one-way delay: 202.338 ms

Loss rate: 1.55%

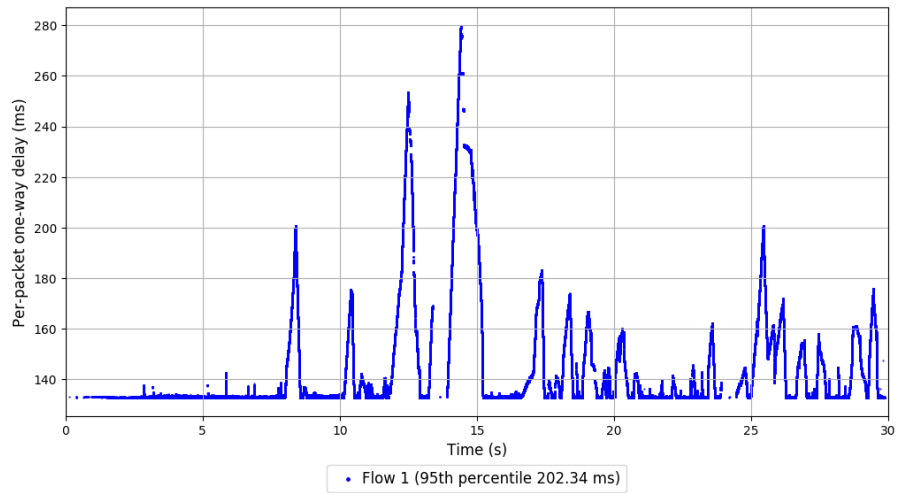
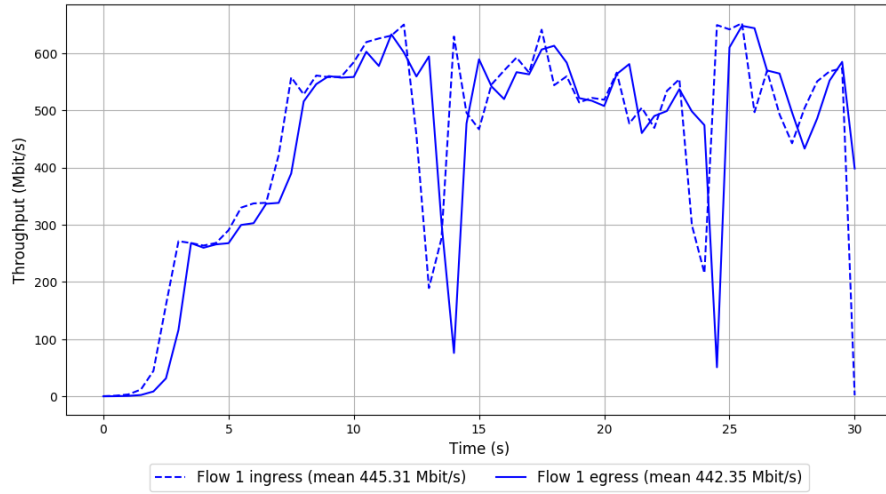
-- Flow 1:

Average throughput: 442.35 Mbit/s

95th percentile per-packet one-way delay: 202.338 ms

Loss rate: 1.55%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-05-30 06:20:20

End at: 2019-05-30 06:20:50

Local clock offset: 0.123 ms

Remote clock offset: -0.016 ms

Below is generated by plot.py at 2019-05-30 07:12:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 478.00 Mbit/s

95th percentile per-packet one-way delay: 228.260 ms

Loss rate: 1.43%

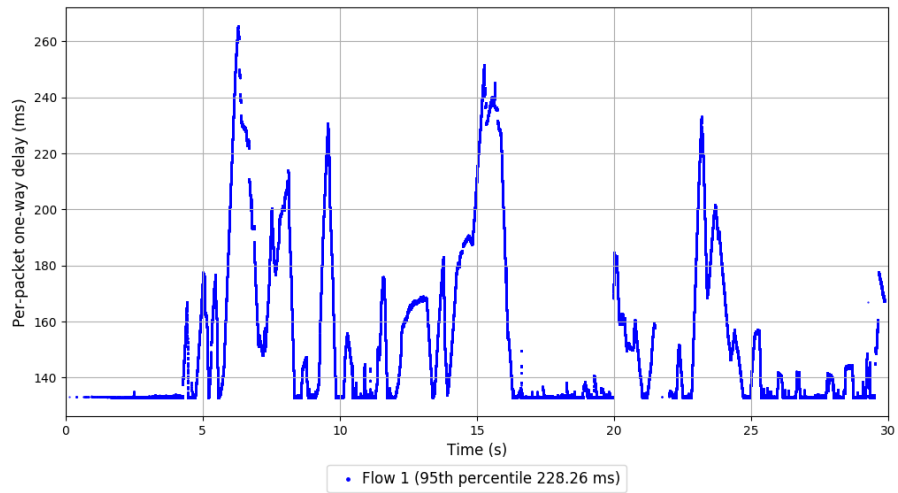
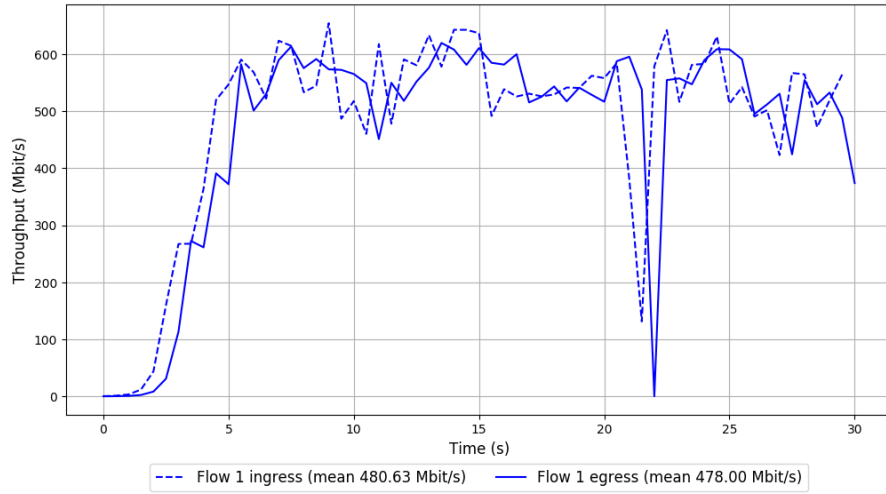
-- Flow 1:

Average throughput: 478.00 Mbit/s

95th percentile per-packet one-way delay: 228.260 ms

Loss rate: 1.43%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-05-30 06:52:00

End at: 2019-05-30 06:52:30

Local clock offset: -0.065 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at 2019-05-30 07:12:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 434.52 Mbit/s

95th percentile per-packet one-way delay: 199.784 ms

Loss rate: 1.39%

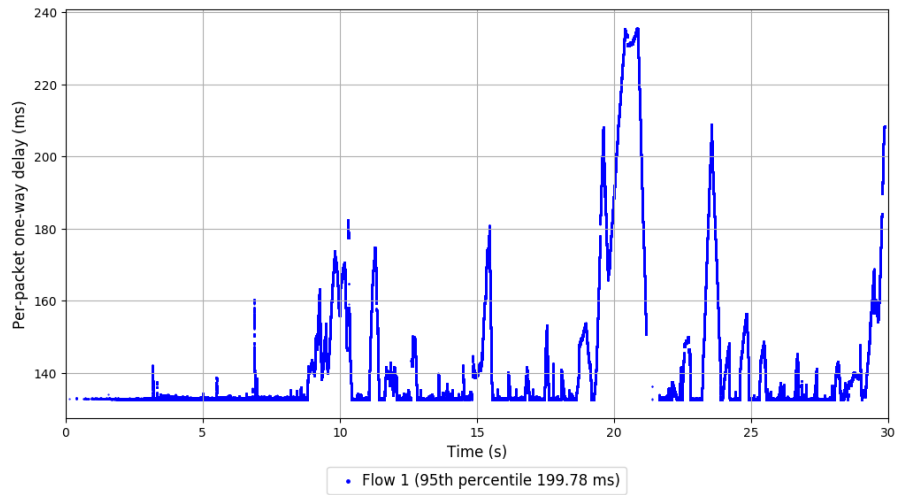
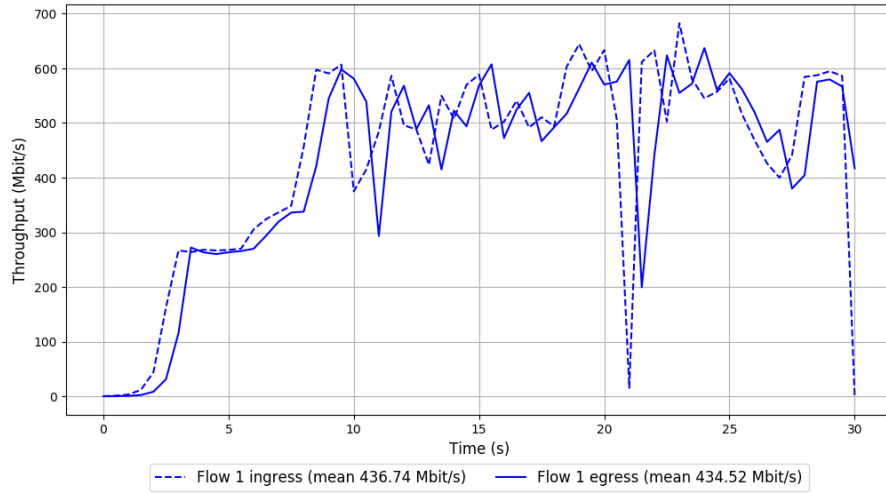
-- Flow 1:

Average throughput: 434.52 Mbit/s

95th percentile per-packet one-way delay: 199.784 ms

Loss rate: 1.39%

Run 5: Report of TCP BBR — Data Link

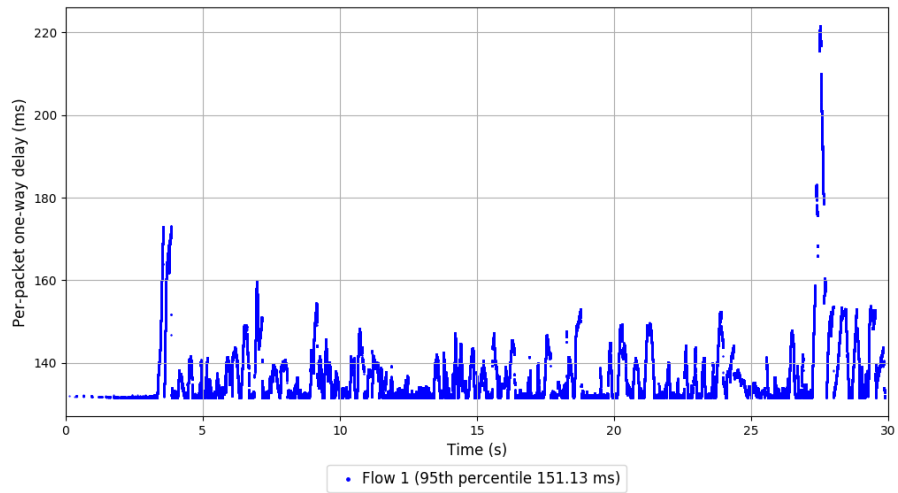
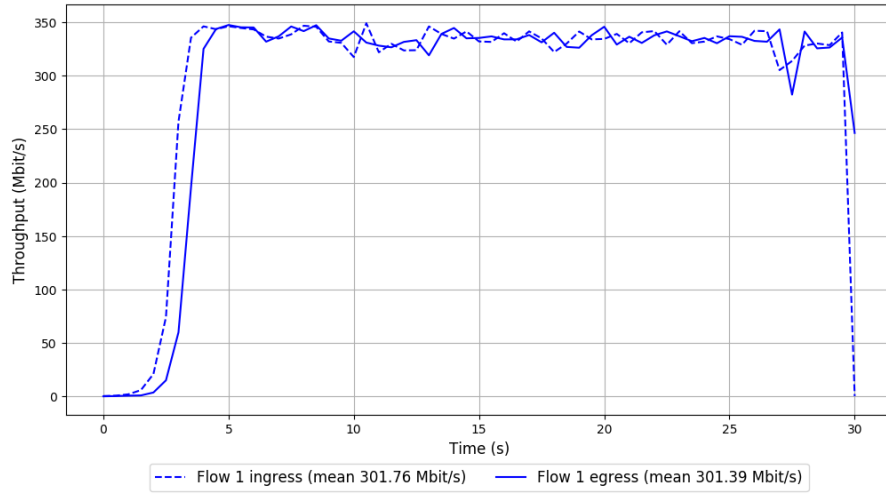


Run 1: Statistics of Copa

Start at: 2019-05-30 04:40:30
End at: 2019-05-30 04:41:00
Local clock offset: -0.332 ms
Remote clock offset: -0.142 ms

Below is generated by plot.py at 2019-05-30 07:13:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 301.39 Mbit/s
95th percentile per-packet one-way delay: 151.135 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 301.39 Mbit/s
95th percentile per-packet one-way delay: 151.135 ms
Loss rate: 1.01%

Run 1: Report of Copa — Data Link

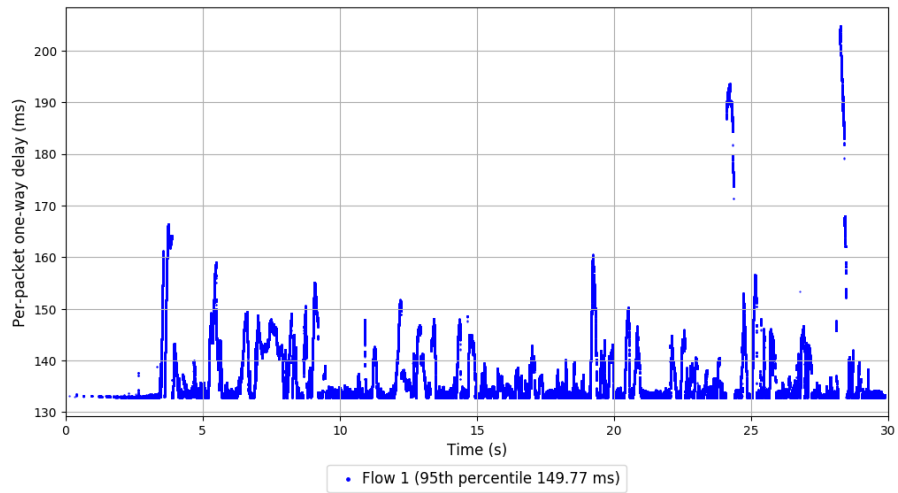
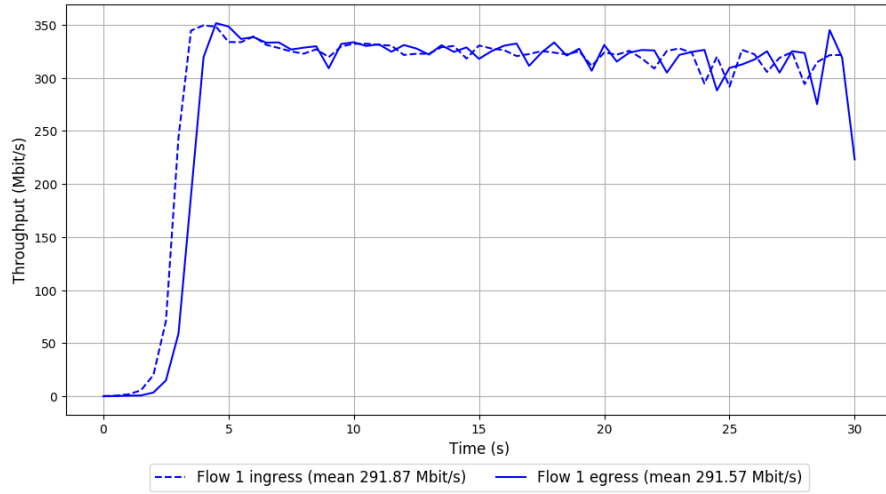


Run 2: Statistics of Copa

Start at: 2019-05-30 05:11:46
End at: 2019-05-30 05:12:16
Local clock offset: -0.034 ms
Remote clock offset: -0.169 ms

Below is generated by plot.py at 2019-05-30 07:13:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 291.57 Mbit/s
95th percentile per-packet one-way delay: 149.767 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 291.57 Mbit/s
95th percentile per-packet one-way delay: 149.767 ms
Loss rate: 0.99%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-05-30 05:42:36

End at: 2019-05-30 05:43:06

Local clock offset: 0.158 ms

Remote clock offset: -0.48 ms

Below is generated by plot.py at 2019-05-30 07:13:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 302.32 Mbit/s

95th percentile per-packet one-way delay: 152.693 ms

Loss rate: 0.99%

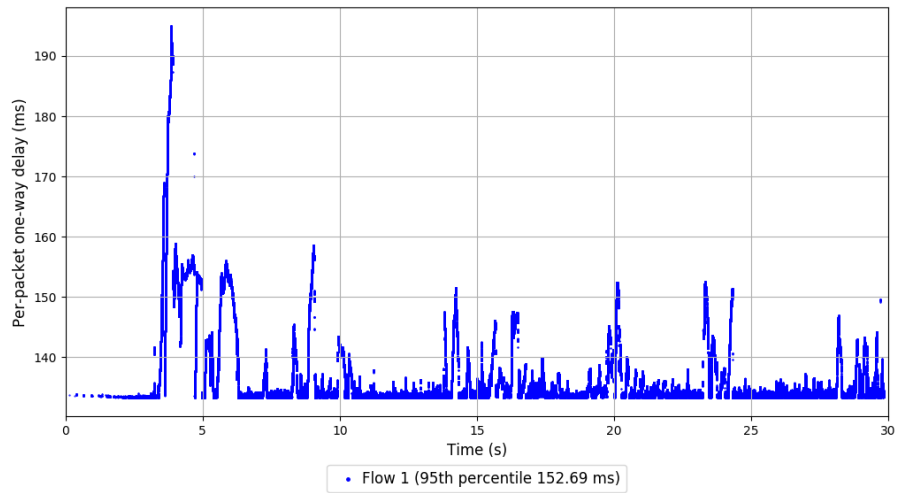
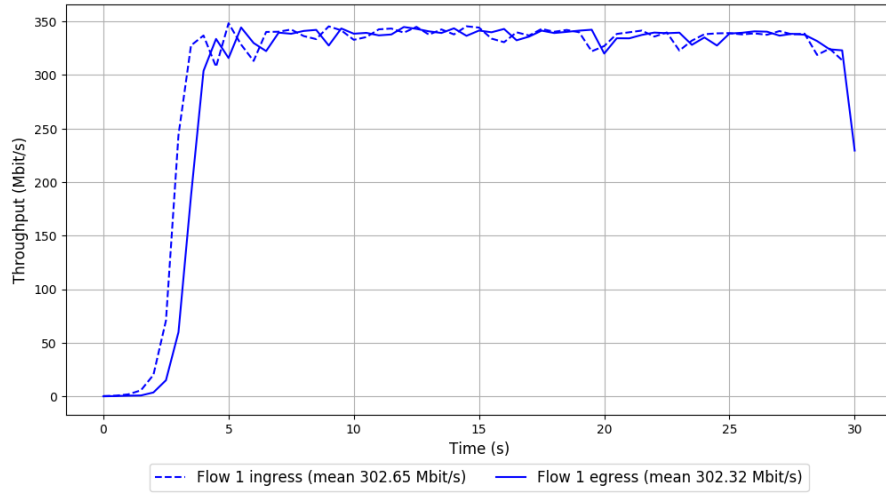
-- Flow 1:

Average throughput: 302.32 Mbit/s

95th percentile per-packet one-way delay: 152.693 ms

Loss rate: 0.99%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-05-30 06:14:08

End at: 2019-05-30 06:14:38

Local clock offset: 0.108 ms

Remote clock offset: -0.059 ms

Below is generated by plot.py at 2019-05-30 07:21:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 278.19 Mbit/s

95th percentile per-packet one-way delay: 150.031 ms

Loss rate: 0.97%

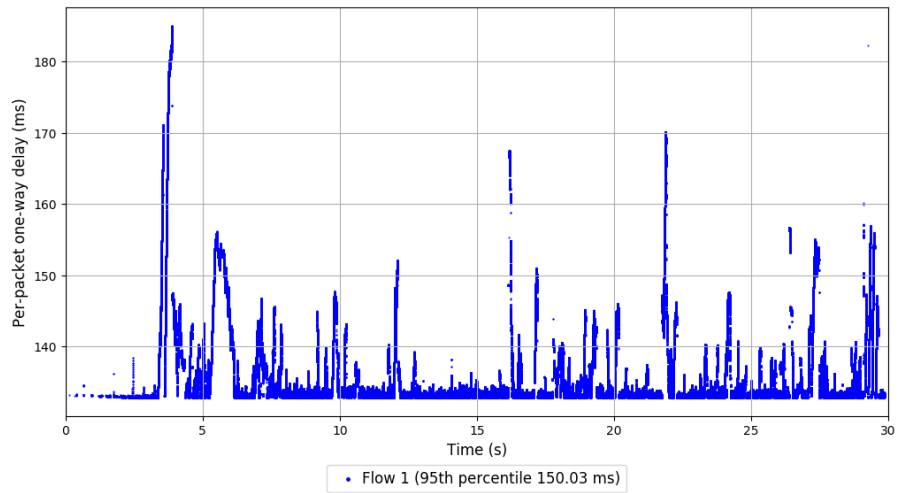
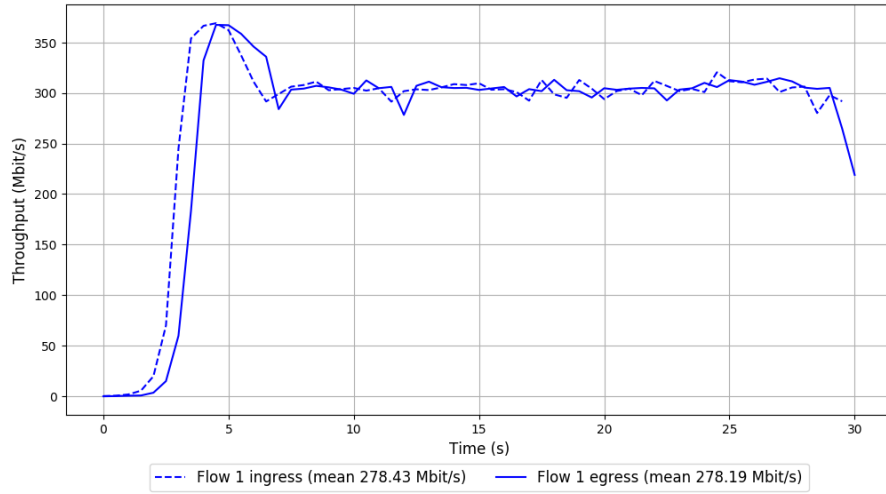
-- Flow 1:

Average throughput: 278.19 Mbit/s

95th percentile per-packet one-way delay: 150.031 ms

Loss rate: 0.97%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-05-30 06:45:46

End at: 2019-05-30 06:46:16

Local clock offset: -0.387 ms

Remote clock offset: 0.002 ms

Below is generated by plot.py at 2019-05-30 07:21:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 295.45 Mbit/s

95th percentile per-packet one-way delay: 161.317 ms

Loss rate: 1.03%

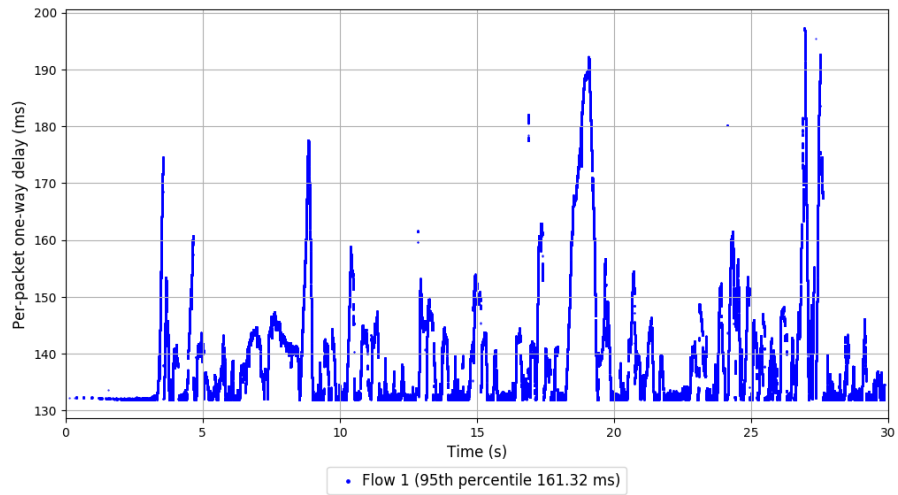
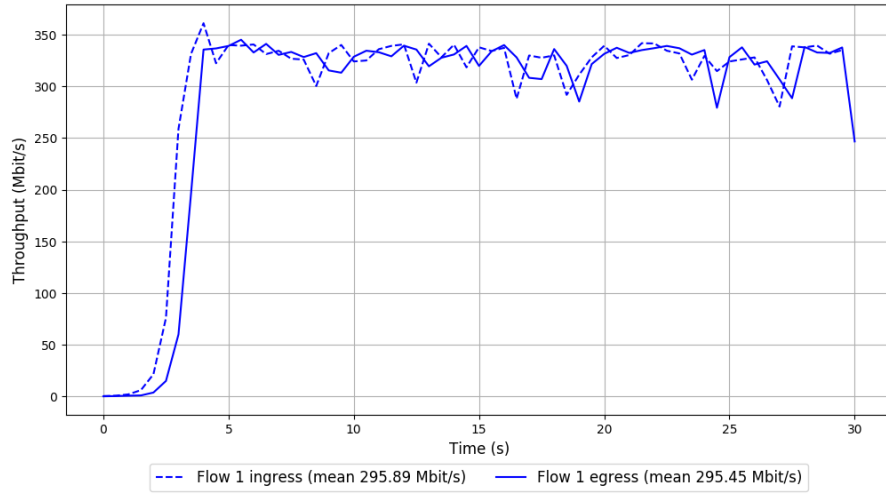
-- Flow 1:

Average throughput: 295.45 Mbit/s

95th percentile per-packet one-way delay: 161.317 ms

Loss rate: 1.03%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-05-30 04:25:25

End at: 2019-05-30 04:25:55

Local clock offset: -0.026 ms

Remote clock offset: -0.13 ms

Below is generated by plot.py at 2019-05-30 07:21:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 437.61 Mbit/s

95th percentile per-packet one-way delay: 214.010 ms

Loss rate: 0.89%

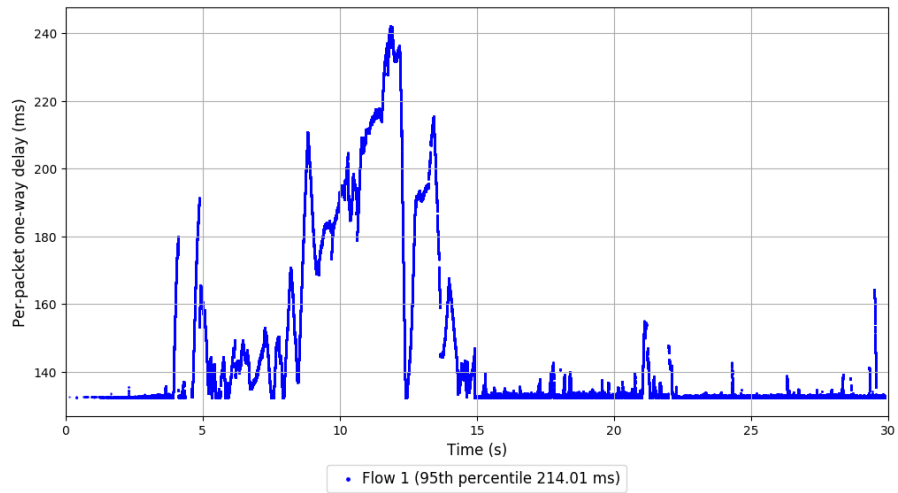
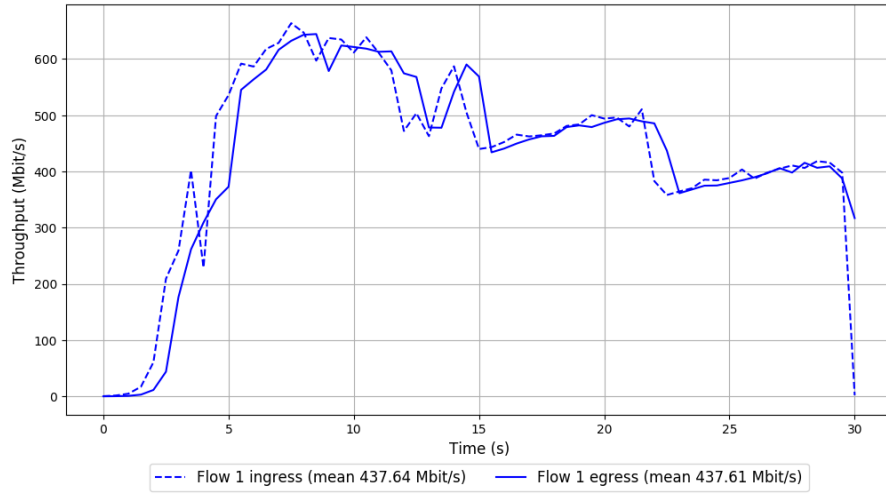
-- Flow 1:

Average throughput: 437.61 Mbit/s

95th percentile per-packet one-way delay: 214.010 ms

Loss rate: 0.89%

Run 1: Report of TCP Cubic — Data Link

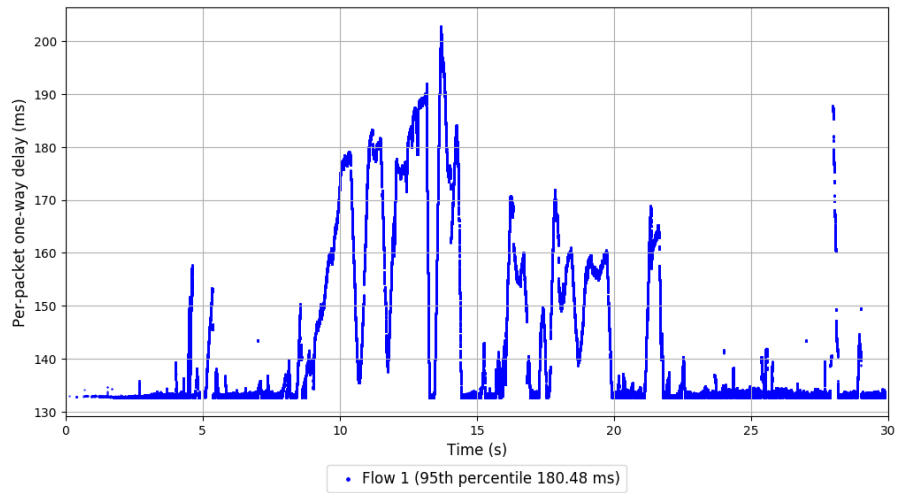
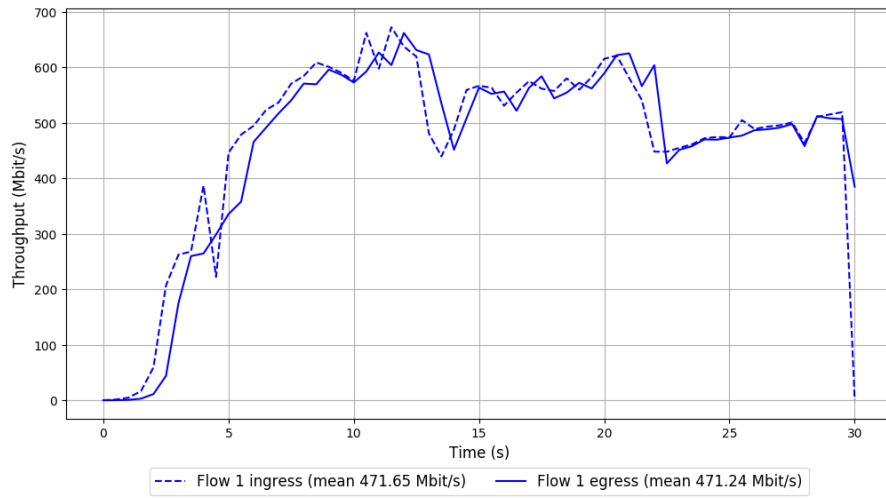


Run 2: Statistics of TCP Cubic

Start at: 2019-05-30 04:56:48
End at: 2019-05-30 04:57:18
Local clock offset: -0.039 ms
Remote clock offset: -0.187 ms

Below is generated by plot.py at 2019-05-30 07:21:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 471.24 Mbit/s
95th percentile per-packet one-way delay: 180.480 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 471.24 Mbit/s
95th percentile per-packet one-way delay: 180.480 ms
Loss rate: 0.97%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-05-30 05:27:52

End at: 2019-05-30 05:28:22

Local clock offset: 0.159 ms

Remote clock offset: -0.141 ms

Below is generated by plot.py at 2019-05-30 07:21:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 426.30 Mbit/s

95th percentile per-packet one-way delay: 155.221 ms

Loss rate: 1.14%

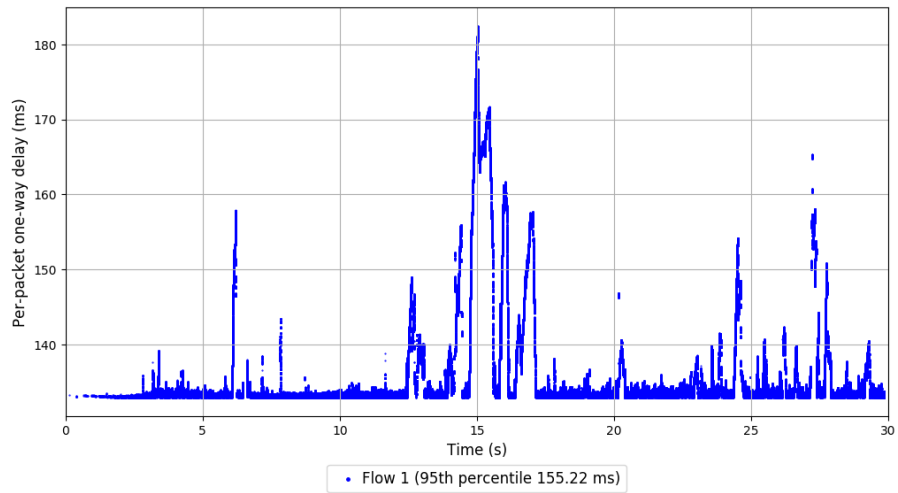
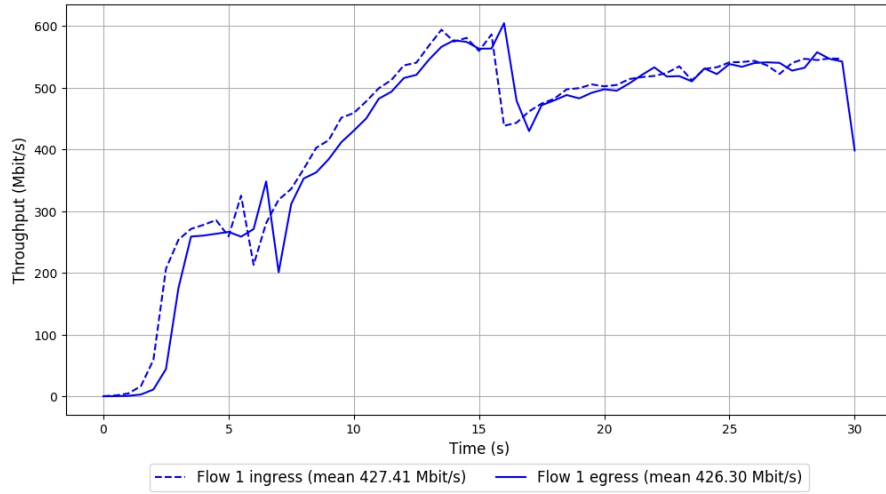
-- Flow 1:

Average throughput: 426.30 Mbit/s

95th percentile per-packet one-way delay: 155.221 ms

Loss rate: 1.14%

Run 3: Report of TCP Cubic — Data Link

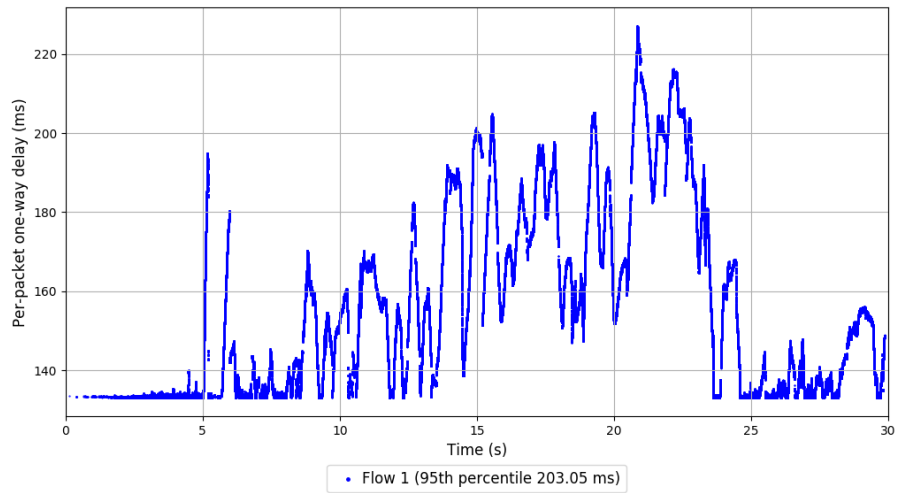
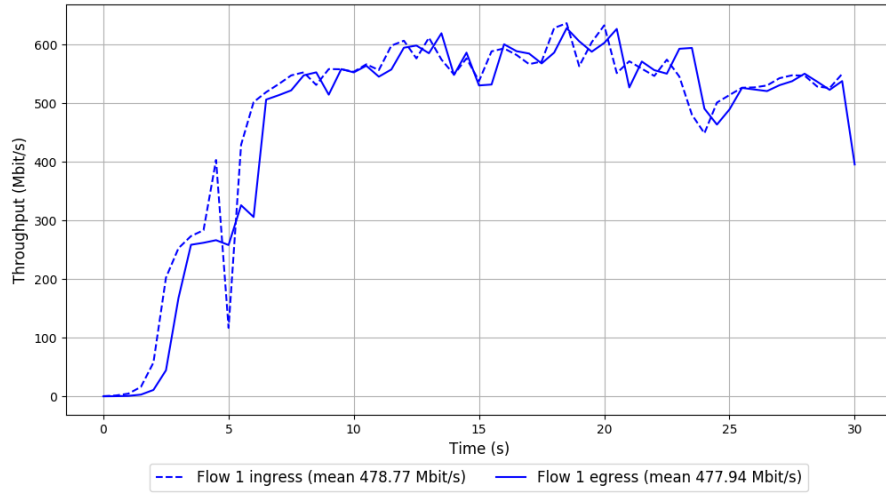


Run 4: Statistics of TCP Cubic

Start at: 2019-05-30 05:58:55
End at: 2019-05-30 05:59:25
Local clock offset: 0.064 ms
Remote clock offset: -0.125 ms

```
# Below is generated by plot.py at 2019-05-30 07:22:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 477.94 Mbit/s
95th percentile per-packet one-way delay: 203.049 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 477.94 Mbit/s
95th percentile per-packet one-way delay: 203.049 ms
Loss rate: 1.06%
```

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-05-30 06:30:52

End at: 2019-05-30 06:31:22

Local clock offset: -0.33 ms

Remote clock offset: -0.015 ms

Below is generated by plot.py at 2019-05-30 07:22:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 438.07 Mbit/s

95th percentile per-packet one-way delay: 153.071 ms

Loss rate: 1.10%

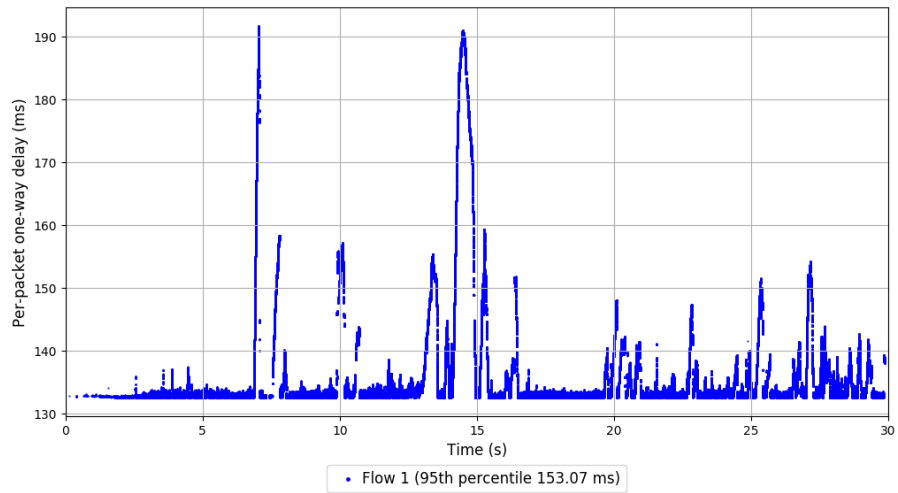
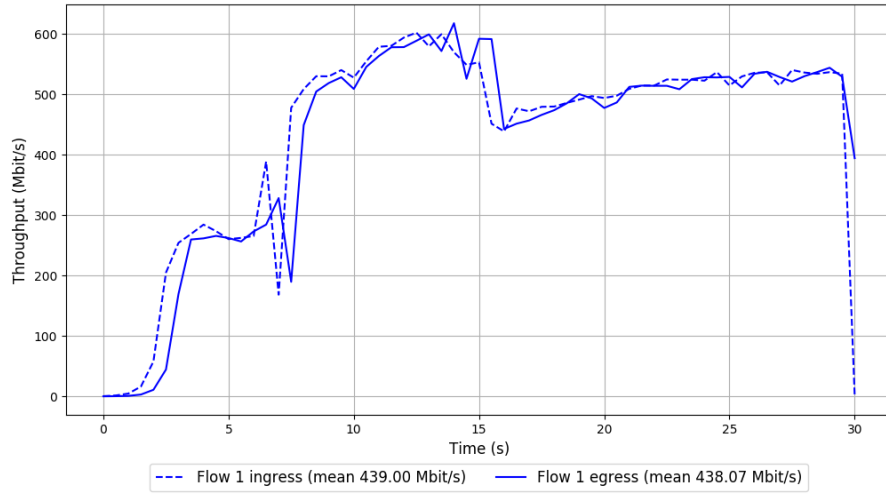
-- Flow 1:

Average throughput: 438.07 Mbit/s

95th percentile per-packet one-way delay: 153.071 ms

Loss rate: 1.10%

Run 5: Report of TCP Cubic — Data Link

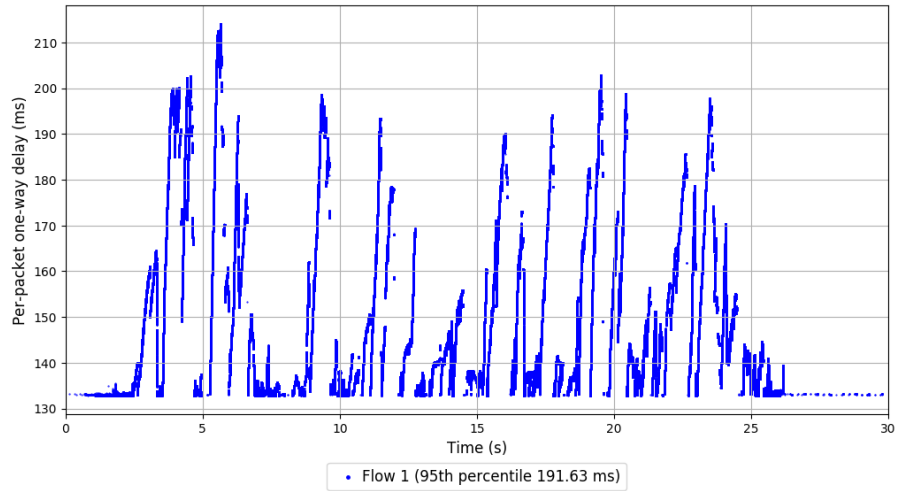
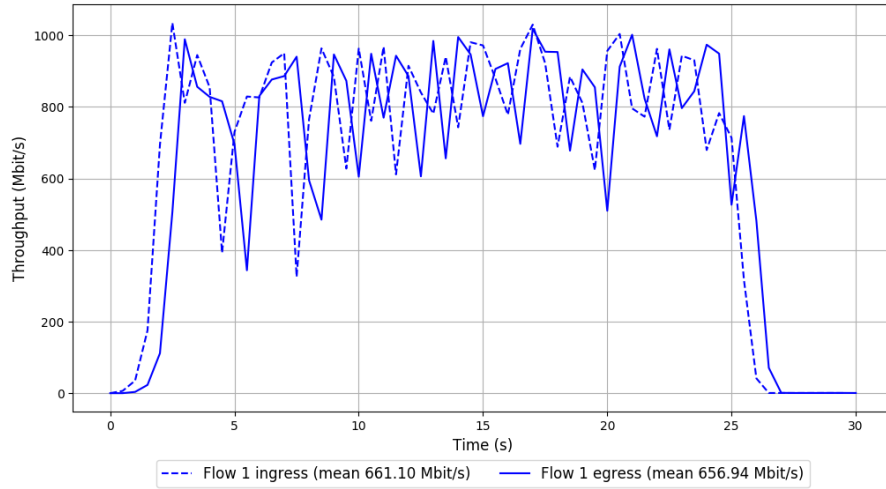


Run 1: Statistics of FillP

Start at: 2019-05-30 04:38:49
End at: 2019-05-30 04:39:19
Local clock offset: 0.118 ms
Remote clock offset: -0.175 ms

Below is generated by plot.py at 2019-05-30 07:27:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 656.94 Mbit/s
95th percentile per-packet one-way delay: 191.627 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 656.94 Mbit/s
95th percentile per-packet one-way delay: 191.627 ms
Loss rate: 1.30%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-05-30 05:10:19
End at: 2019-05-30 05:10:49
Local clock offset: 0.048 ms
Remote clock offset: -0.116 ms

Below is generated by plot.py at 2019-05-30 07:27:28

Datalink statistics

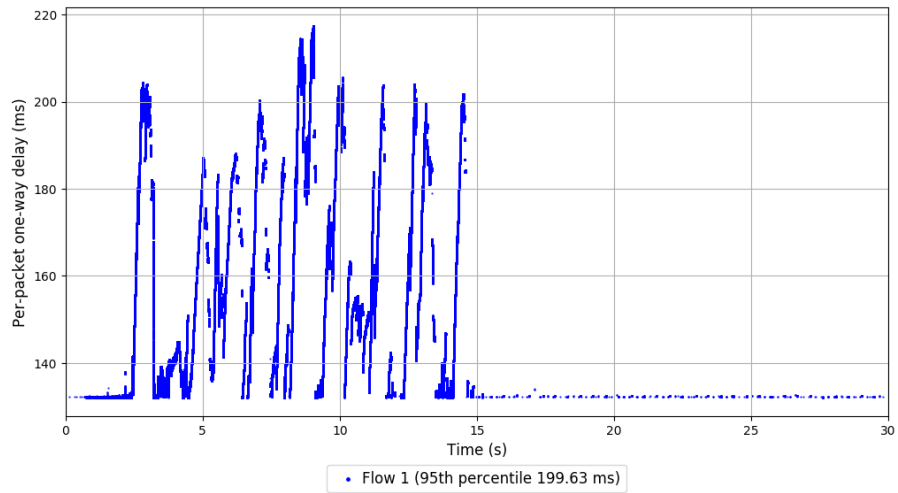
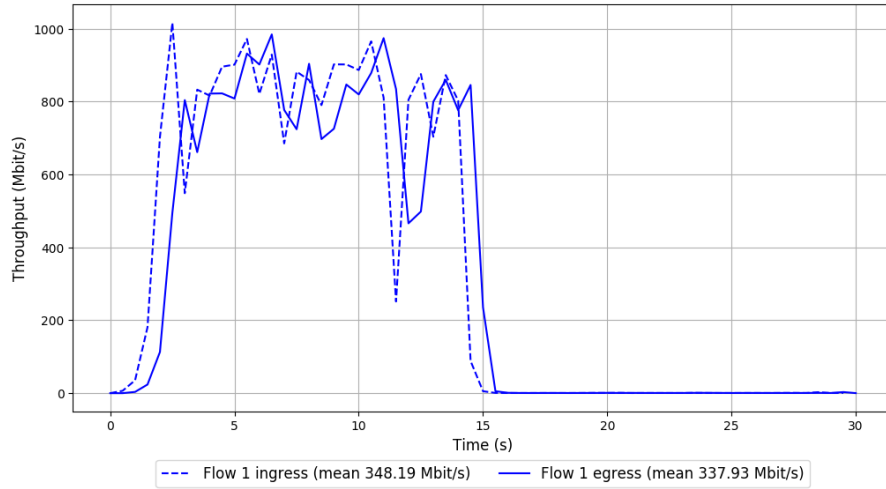
-- Total of 1 flow:

Average throughput: 337.93 Mbit/s
95th percentile per-packet one-way delay: 199.626 ms
Loss rate: 3.41%

-- Flow 1:

Average throughput: 337.93 Mbit/s
95th percentile per-packet one-way delay: 199.626 ms
Loss rate: 3.41%

Run 2: Report of FillP — Data Link

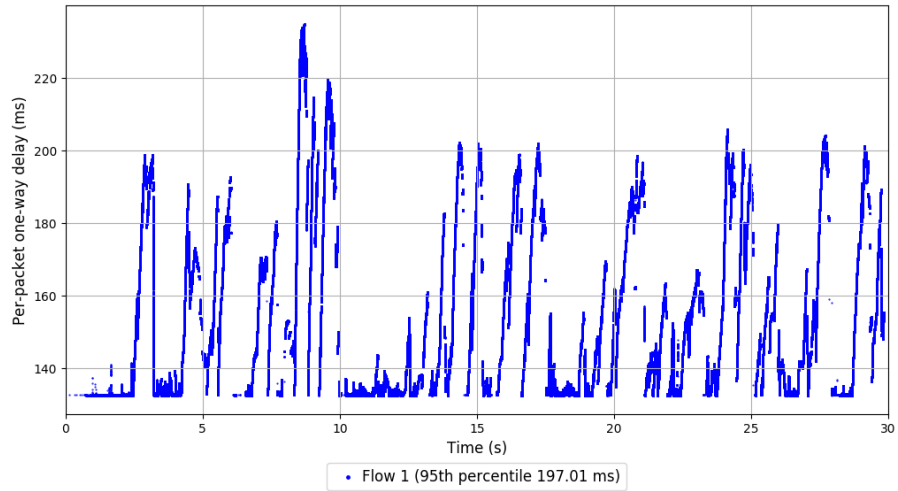
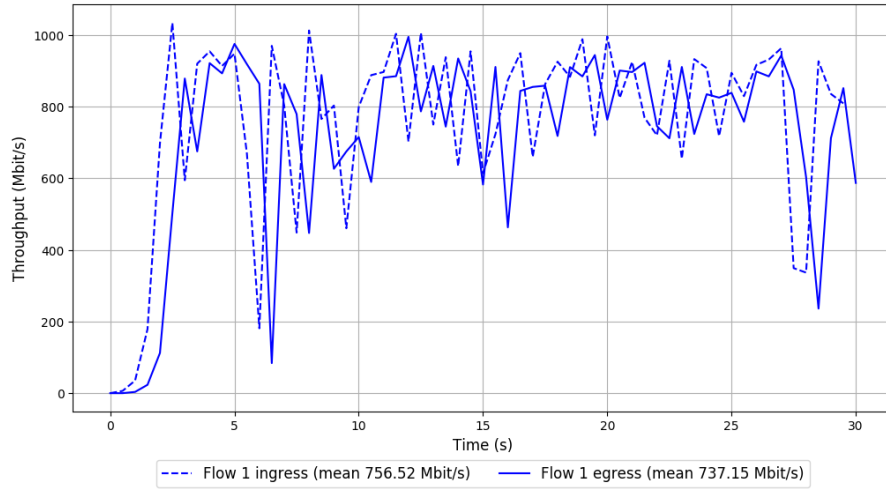


Run 3: Statistics of FillP

Start at: 2019-05-30 05:40:49
End at: 2019-05-30 05:41:19
Local clock offset: -0.213 ms
Remote clock offset: -0.098 ms

Below is generated by plot.py at 2019-05-30 07:36:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 737.15 Mbit/s
95th percentile per-packet one-way delay: 197.008 ms
Loss rate: 3.43%
-- Flow 1:
Average throughput: 737.15 Mbit/s
95th percentile per-packet one-way delay: 197.008 ms
Loss rate: 3.43%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-05-30 06:12:24

End at: 2019-05-30 06:12:54

Local clock offset: 0.081 ms

Remote clock offset: -0.061 ms

Below is generated by plot.py at 2019-05-30 07:36:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 679.45 Mbit/s

95th percentile per-packet one-way delay: 208.806 ms

Loss rate: 6.47%

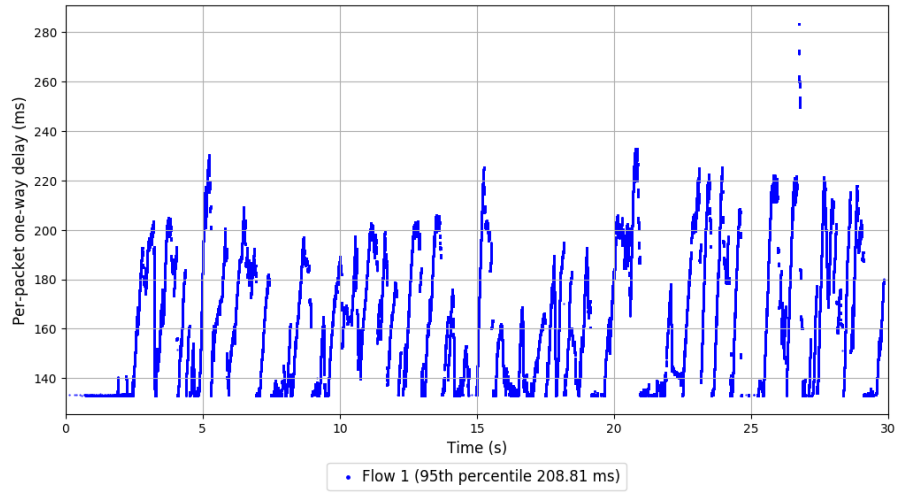
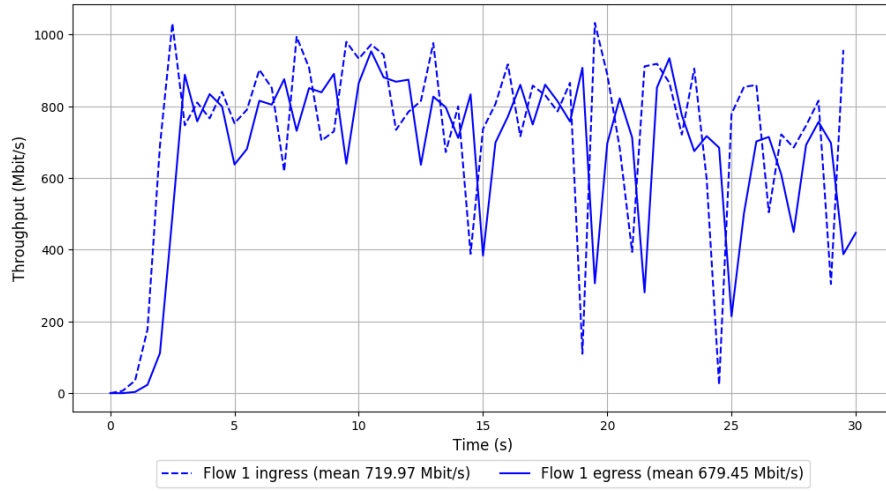
-- Flow 1:

Average throughput: 679.45 Mbit/s

95th percentile per-packet one-way delay: 208.806 ms

Loss rate: 6.47%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-05-30 06:44:10

End at: 2019-05-30 06:44:40

Local clock offset: 0.091 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2019-05-30 07:36:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 519.05 Mbit/s

95th percentile per-packet one-way delay: 206.626 ms

Loss rate: 5.52%

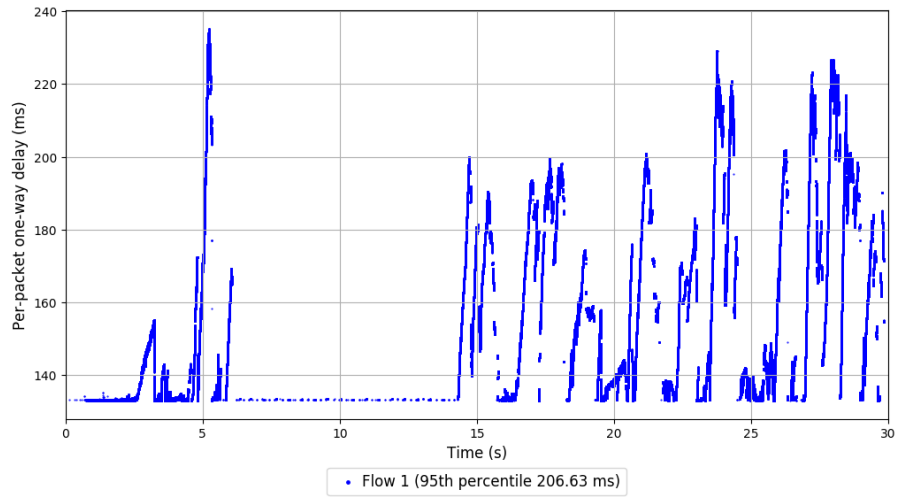
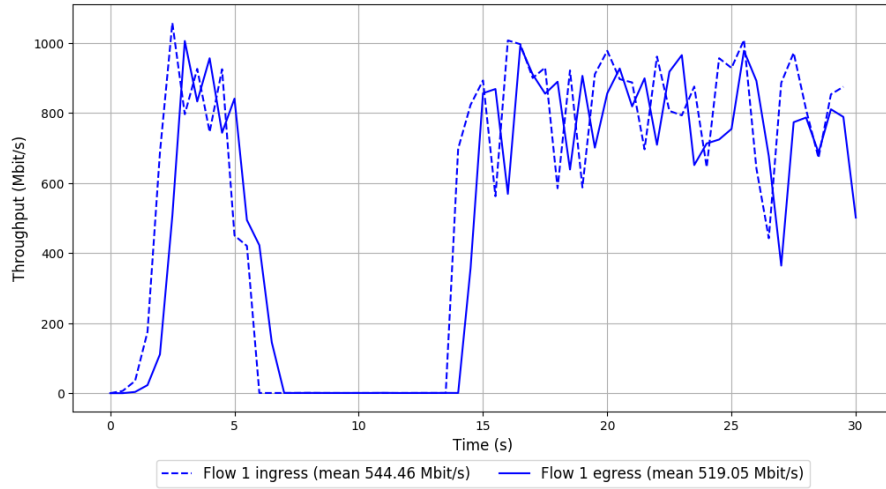
-- Flow 1:

Average throughput: 519.05 Mbit/s

95th percentile per-packet one-way delay: 206.626 ms

Loss rate: 5.52%

Run 5: Report of FillP — Data Link

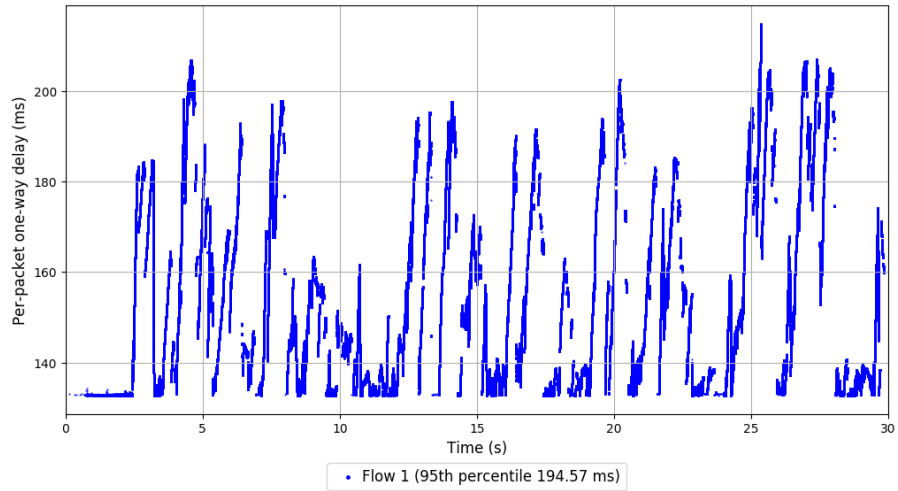
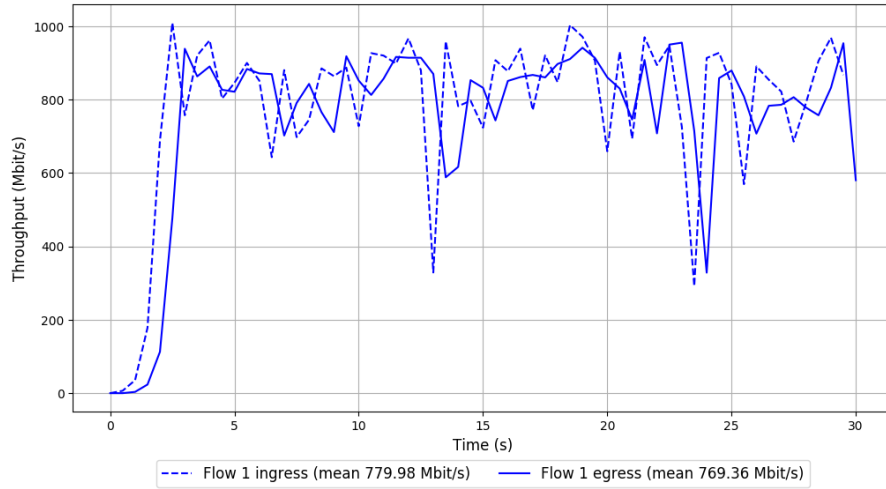


Run 1: Statistics of FillP-Sheep

Start at: 2019-05-30 04:28:30
End at: 2019-05-30 04:29:00
Local clock offset: -0.205 ms
Remote clock offset: -0.106 ms

Below is generated by plot.py at 2019-05-30 07:38:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 769.36 Mbit/s
95th percentile per-packet one-way delay: 194.575 ms
Loss rate: 2.24%
-- Flow 1:
Average throughput: 769.36 Mbit/s
95th percentile per-packet one-way delay: 194.575 ms
Loss rate: 2.24%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-05-30 04:59:50

End at: 2019-05-30 05:00:20

Local clock offset: 0.129 ms

Remote clock offset: -0.163 ms

Below is generated by plot.py at 2019-05-30 07:38:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 725.33 Mbit/s

95th percentile per-packet one-way delay: 199.879 ms

Loss rate: 3.62%

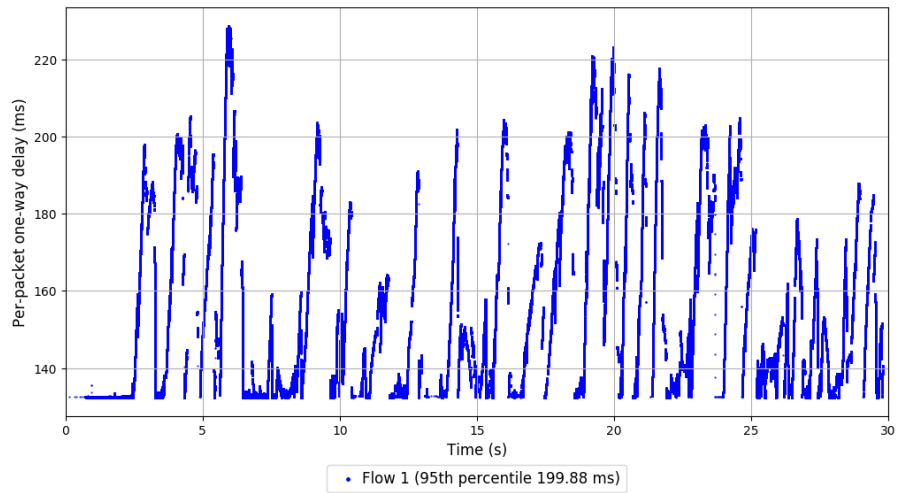
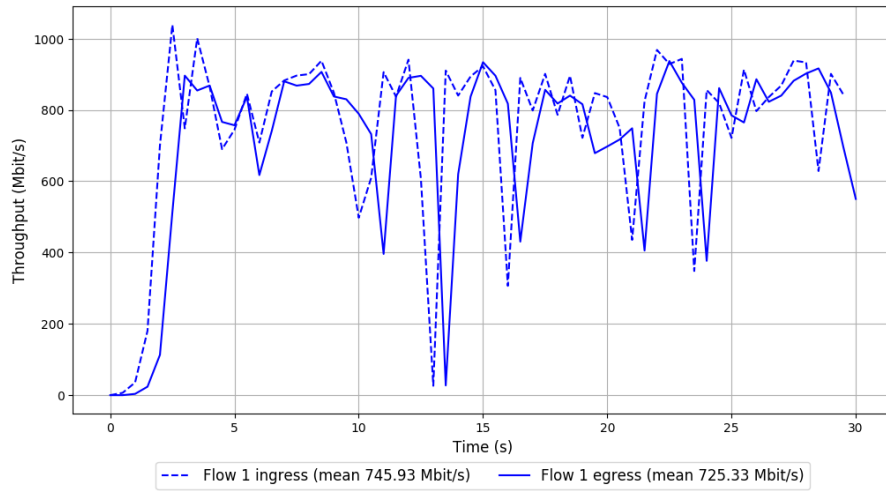
-- Flow 1:

Average throughput: 725.33 Mbit/s

95th percentile per-packet one-way delay: 199.879 ms

Loss rate: 3.62%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-05-30 05:30:45

End at: 2019-05-30 05:31:15

Local clock offset: 0.129 ms

Remote clock offset: -0.176 ms

Below is generated by plot.py at 2019-05-30 07:38:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 264.78 Mbit/s

95th percentile per-packet one-way delay: 171.989 ms

Loss rate: 0.20%

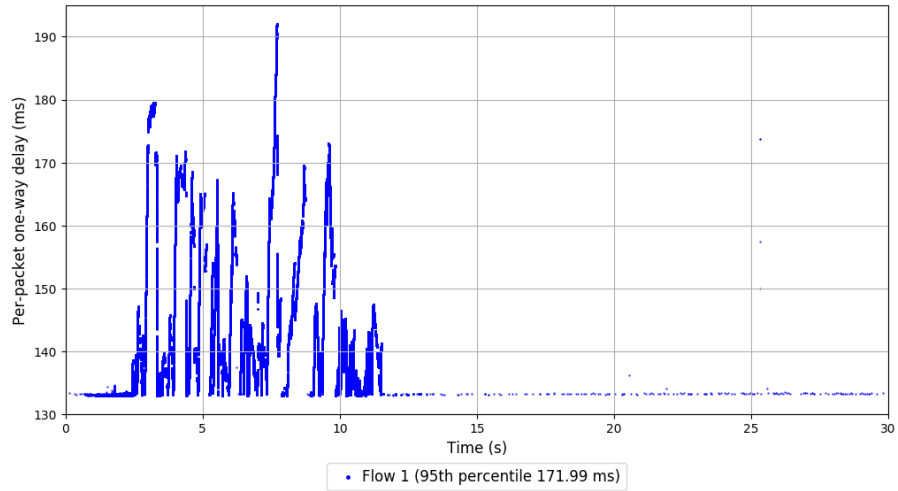
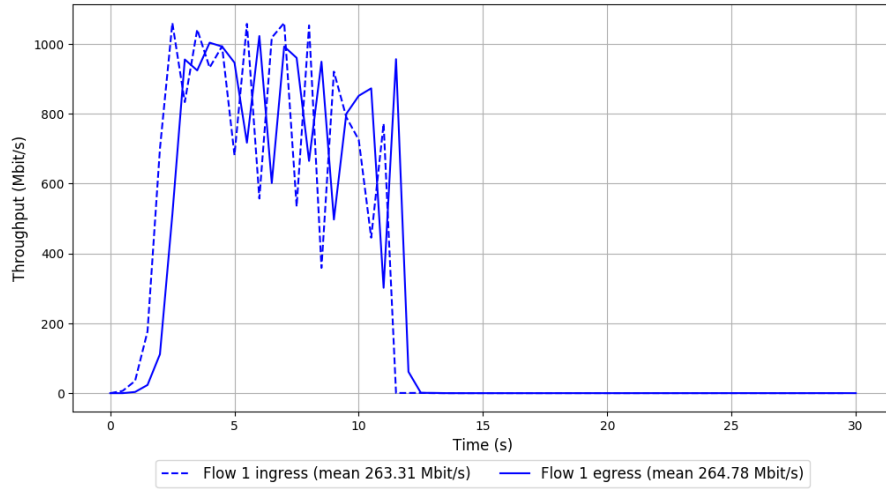
-- Flow 1:

Average throughput: 264.78 Mbit/s

95th percentile per-packet one-way delay: 171.989 ms

Loss rate: 0.20%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-05-30 06:01:53

End at: 2019-05-30 06:02:23

Local clock offset: 0.096 ms

Remote clock offset: -0.066 ms

Below is generated by plot.py at 2019-05-30 07:43:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 728.01 Mbit/s

95th percentile per-packet one-way delay: 206.974 ms

Loss rate: 3.78%

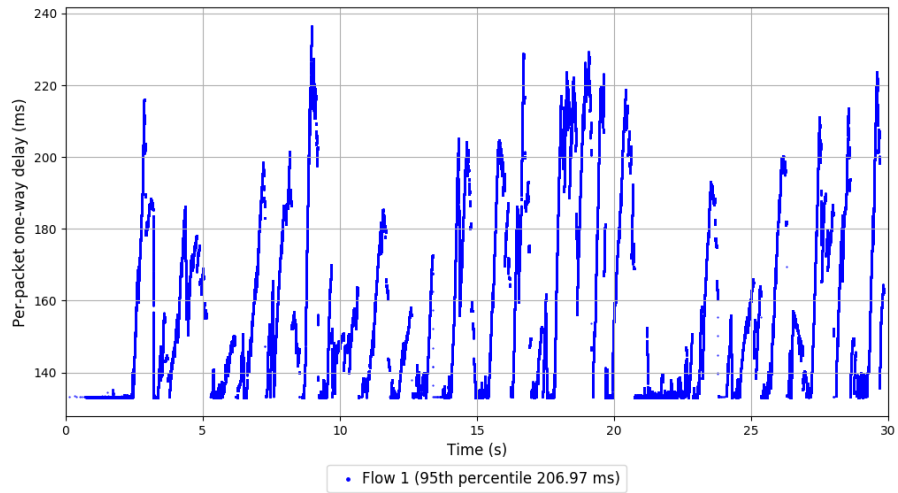
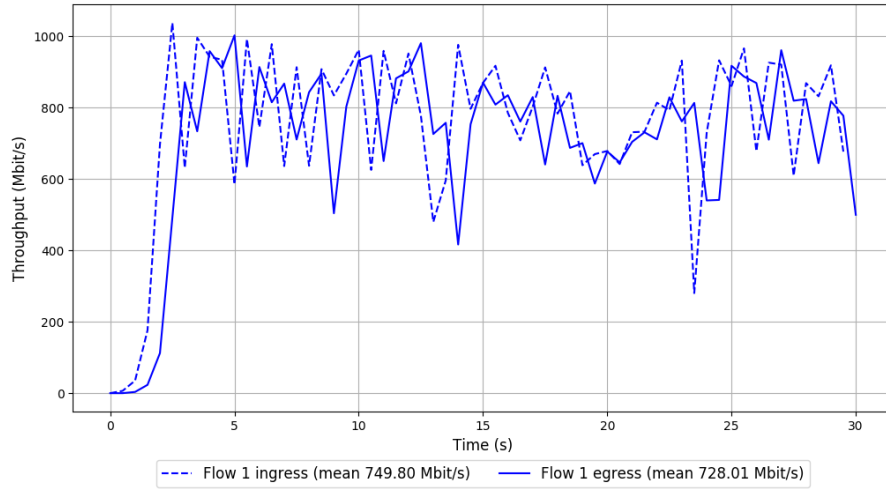
-- Flow 1:

Average throughput: 728.01 Mbit/s

95th percentile per-packet one-way delay: 206.974 ms

Loss rate: 3.78%

Run 4: Report of FillP-Sheep — Data Link

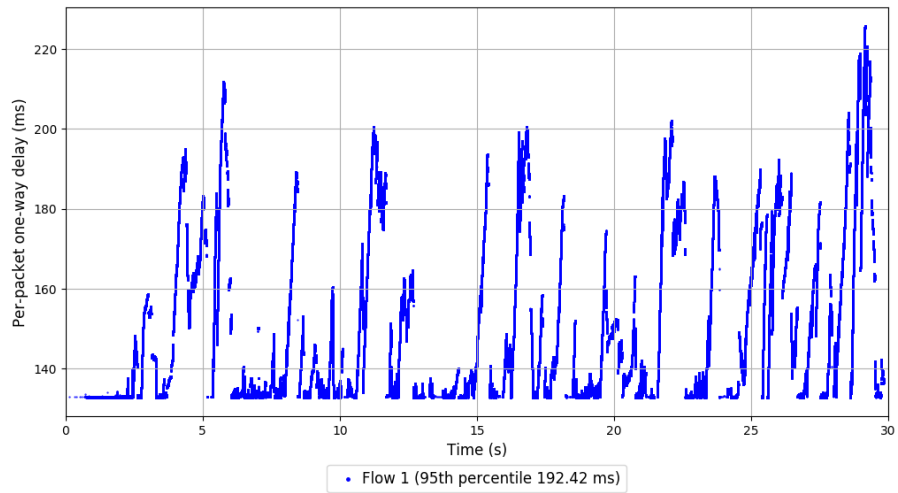
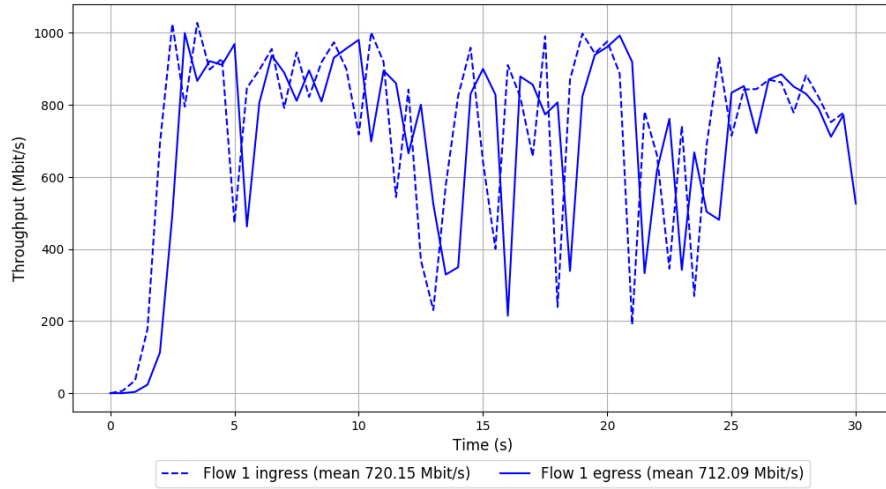


Run 5: Statistics of FillP-Sheep

Start at: 2019-05-30 06:33:49
End at: 2019-05-30 06:34:19
Local clock offset: -0.025 ms
Remote clock offset: -0.014 ms

Below is generated by plot.py at 2019-05-30 07:43:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 712.09 Mbit/s
95th percentile per-packet one-way delay: 192.424 ms
Loss rate: 2.00%
-- Flow 1:
Average throughput: 712.09 Mbit/s
95th percentile per-packet one-way delay: 192.424 ms
Loss rate: 2.00%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-05-30 04:31:27

End at: 2019-05-30 04:31:57

Local clock offset: 0.256 ms

Remote clock offset: -0.139 ms

Below is generated by plot.py at 2019-05-30 07:43:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.79 Mbit/s

95th percentile per-packet one-way delay: 134.883 ms

Loss rate: 0.81%

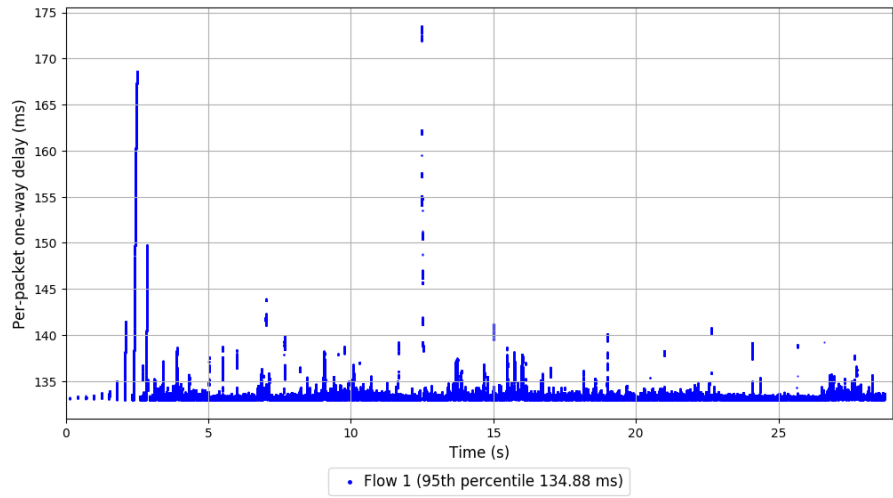
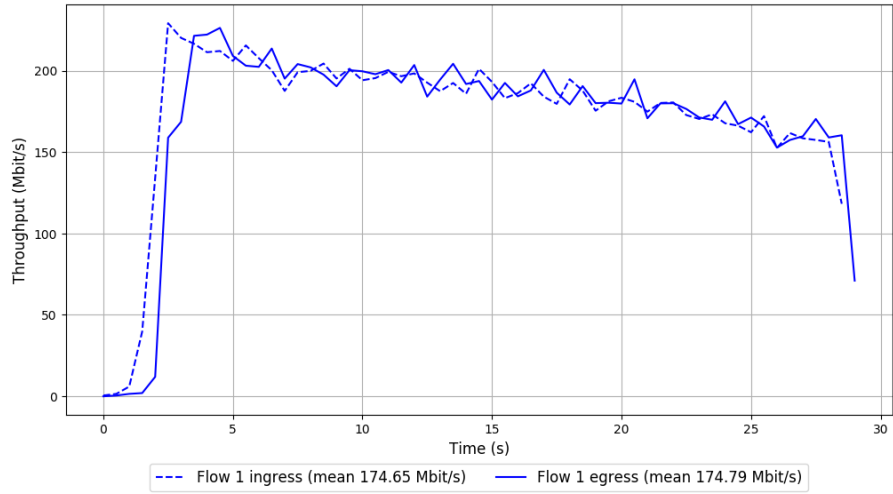
-- Flow 1:

Average throughput: 174.79 Mbit/s

95th percentile per-packet one-way delay: 134.883 ms

Loss rate: 0.81%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-05-30 05:02:46

End at: 2019-05-30 05:03:16

Local clock offset: 0.029 ms

Remote clock offset: -0.147 ms

Below is generated by plot.py at 2019-05-30 07:43:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.04 Mbit/s

95th percentile per-packet one-way delay: 134.522 ms

Loss rate: 0.82%

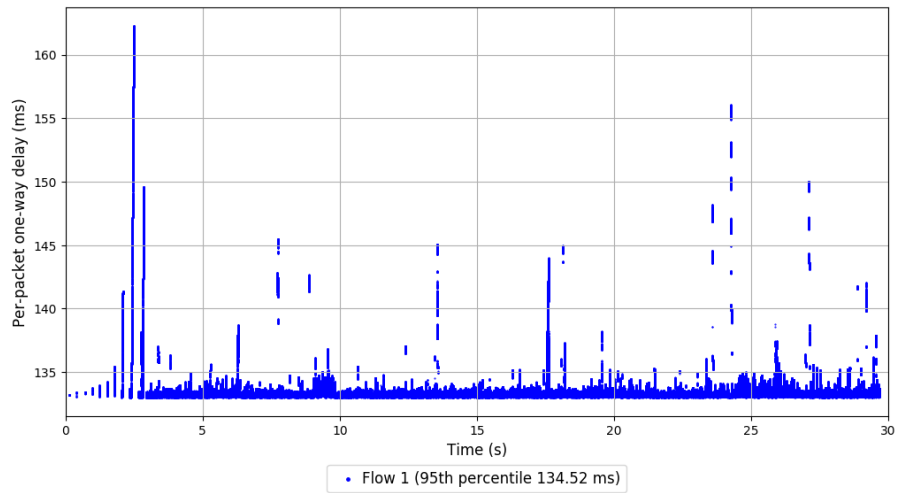
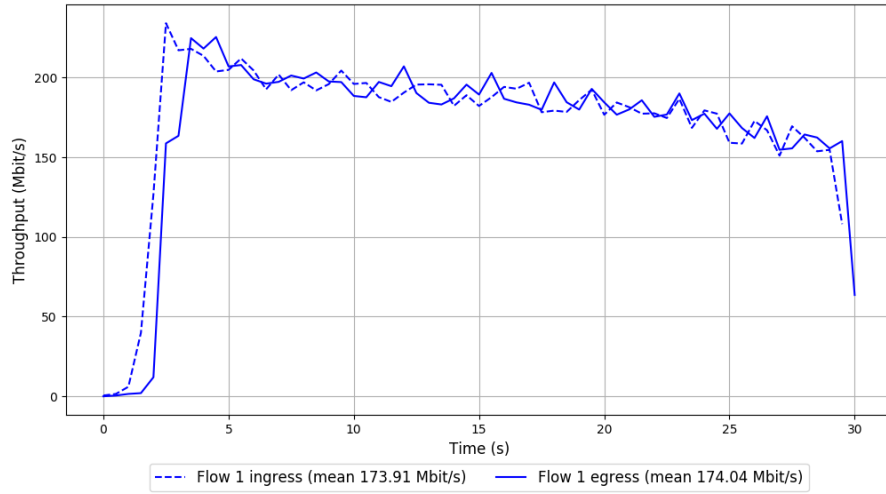
-- Flow 1:

Average throughput: 174.04 Mbit/s

95th percentile per-packet one-way delay: 134.522 ms

Loss rate: 0.82%

Run 2: Report of Indigo — Data Link

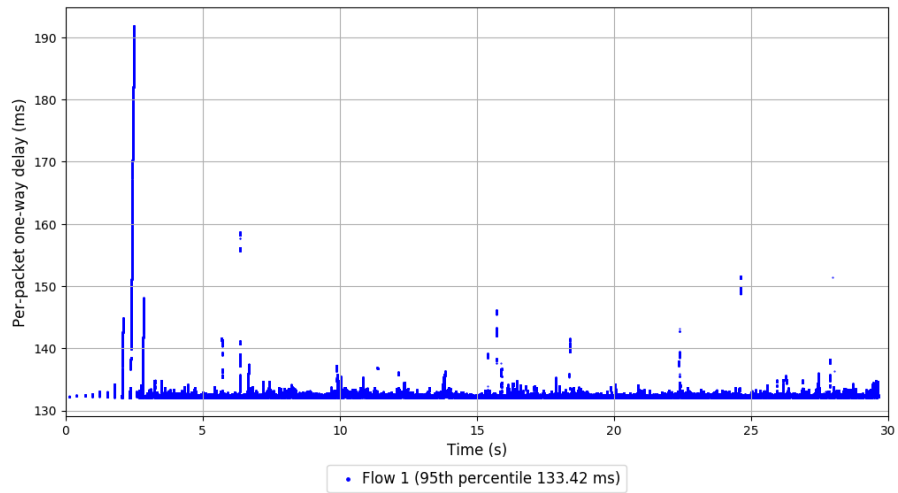
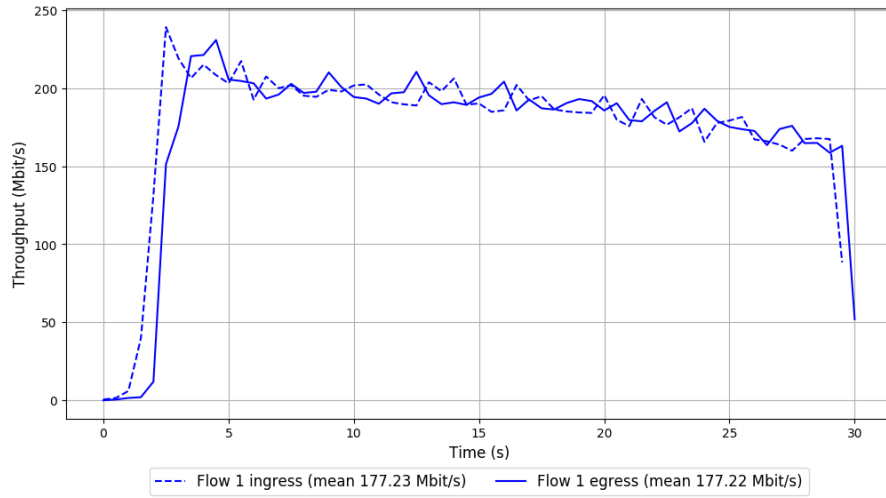


Run 3: Statistics of Indigo

Start at: 2019-05-30 05:33:19
End at: 2019-05-30 05:33:49
Local clock offset: -0.217 ms
Remote clock offset: -0.102 ms

Below is generated by plot.py at 2019-05-30 07:43:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 177.22 Mbit/s
95th percentile per-packet one-way delay: 133.416 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 177.22 Mbit/s
95th percentile per-packet one-way delay: 133.416 ms
Loss rate: 0.91%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-05-30 06:04:49

End at: 2019-05-30 06:05:19

Local clock offset: 0.099 ms

Remote clock offset: -0.041 ms

Below is generated by plot.py at 2019-05-30 07:43:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 138.23 Mbit/s

95th percentile per-packet one-way delay: 133.091 ms

Loss rate: 0.94%

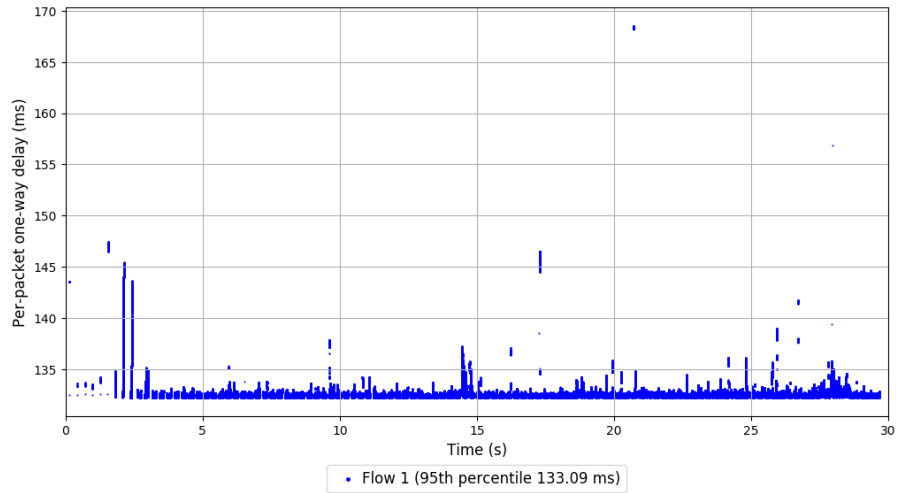
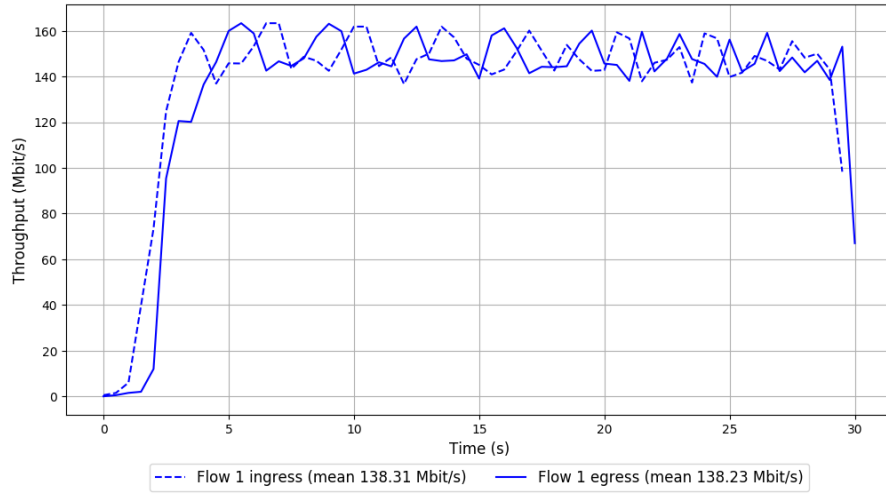
-- Flow 1:

Average throughput: 138.23 Mbit/s

95th percentile per-packet one-way delay: 133.091 ms

Loss rate: 0.94%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-05-30 06:36:44

End at: 2019-05-30 06:37:14

Local clock offset: -0.3 ms

Remote clock offset: -0.004 ms

Below is generated by plot.py at 2019-05-30 07:43:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.84 Mbit/s

95th percentile per-packet one-way delay: 133.943 ms

Loss rate: 0.84%

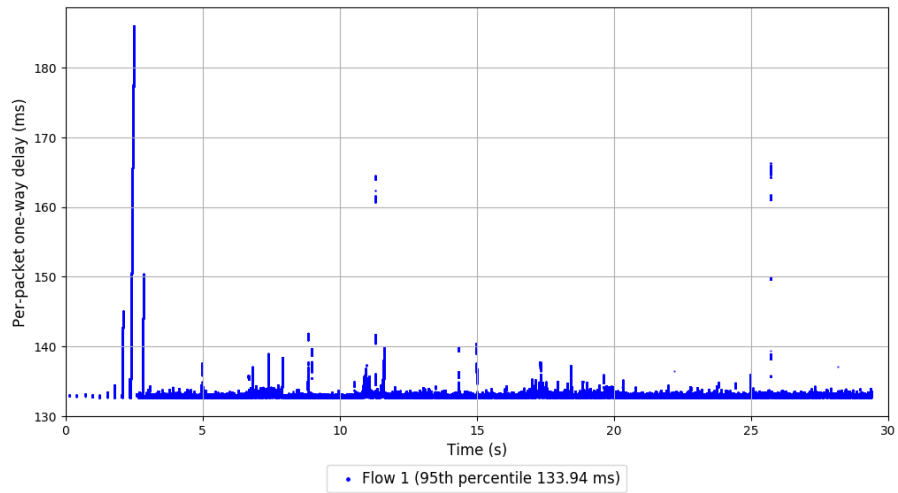
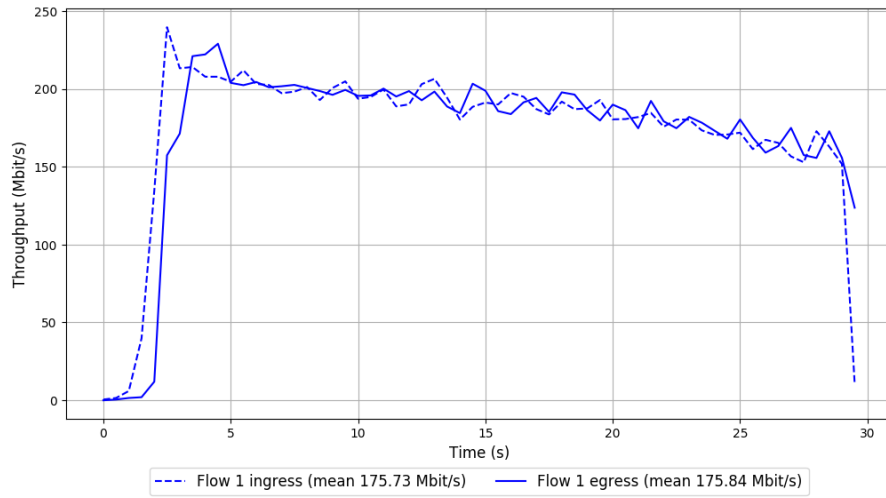
-- Flow 1:

Average throughput: 175.84 Mbit/s

95th percentile per-packet one-way delay: 133.943 ms

Loss rate: 0.84%

Run 5: Report of Indigo — Data Link

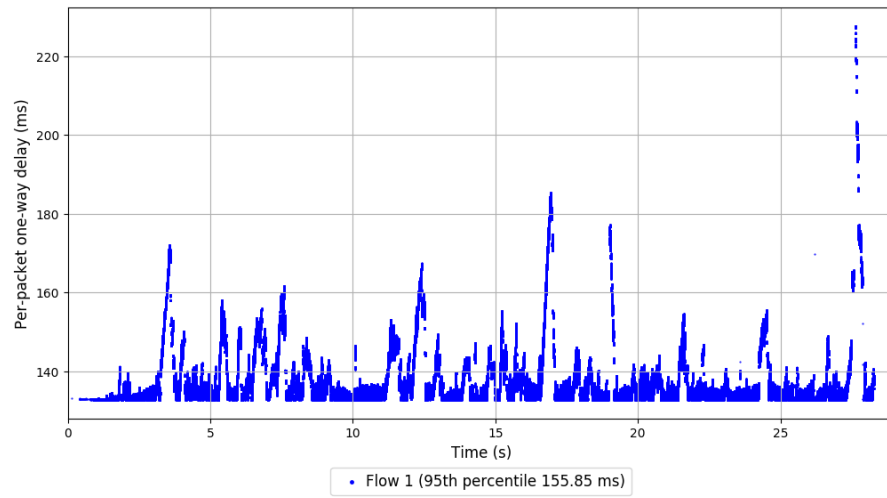
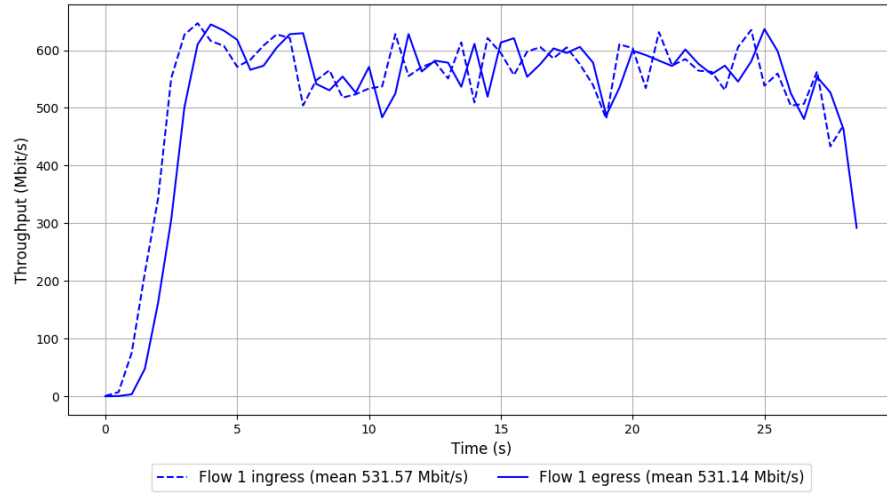


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-05-30 04:43:50
End at: 2019-05-30 04:44:20
Local clock offset: 0.106 ms
Remote clock offset: -0.192 ms

Below is generated by plot.py at 2019-05-30 07:47:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 531.14 Mbit/s
95th percentile per-packet one-way delay: 155.855 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 531.14 Mbit/s
95th percentile per-packet one-way delay: 155.855 ms
Loss rate: 1.01%

Run 1: Report of Indigo-MusesC3 — Data Link

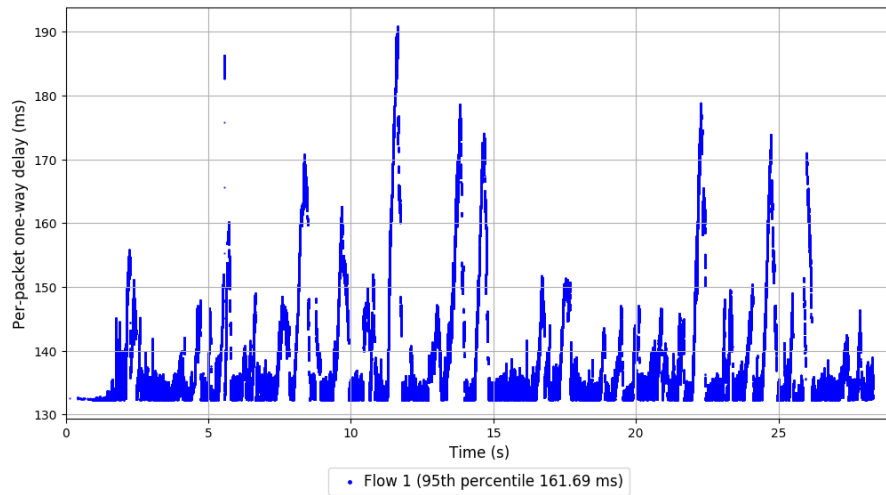
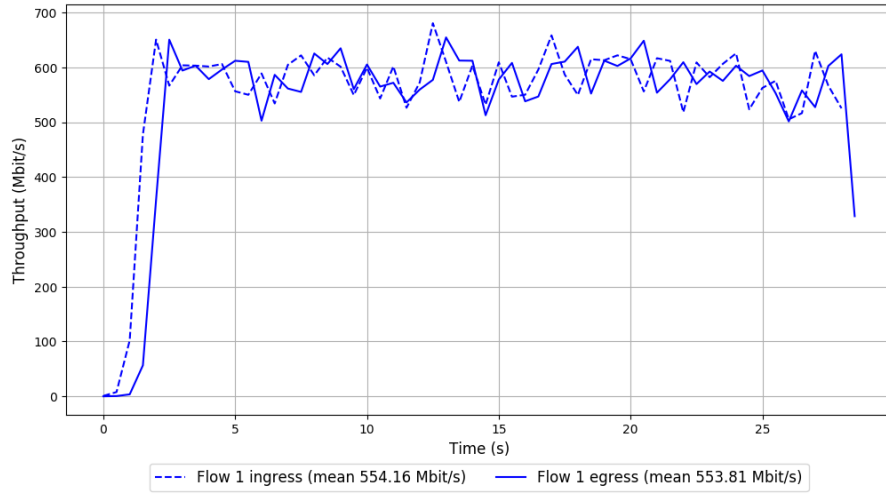


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-05-30 05:15:03
End at: 2019-05-30 05:15:33
Local clock offset: -0.036 ms
Remote clock offset: -0.097 ms

Below is generated by plot.py at 2019-05-30 07:48:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 553.81 Mbit/s
95th percentile per-packet one-way delay: 161.690 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 553.81 Mbit/s
95th percentile per-packet one-way delay: 161.690 ms
Loss rate: 1.00%

Run 2: Report of Indigo-MusesC3 — Data Link

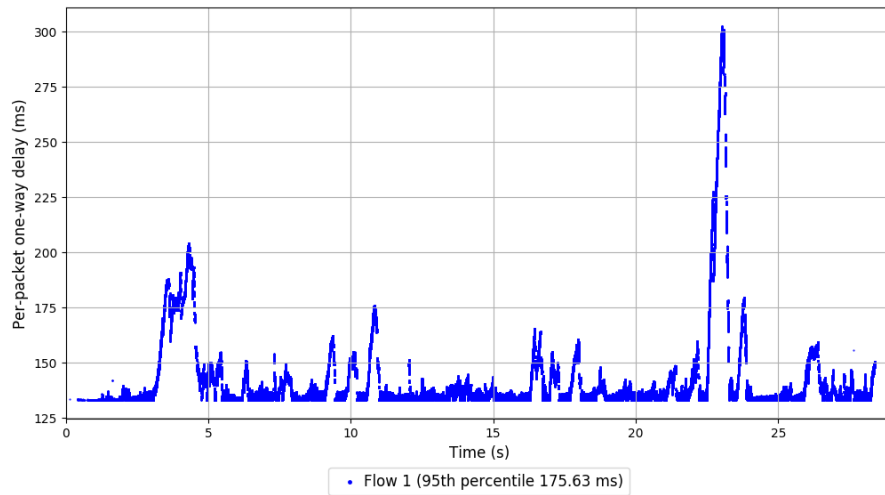
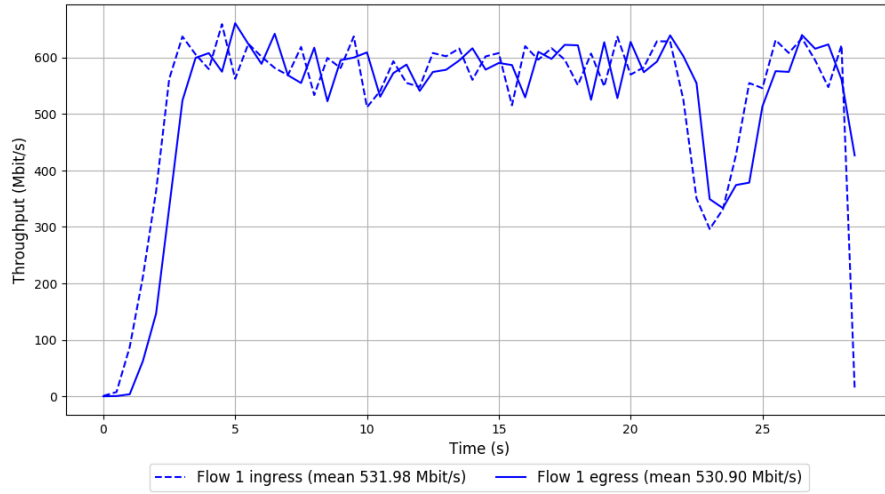


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-05-30 05:45:57
End at: 2019-05-30 05:46:27
Local clock offset: 0.283 ms
Remote clock offset: -0.096 ms

Below is generated by plot.py at 2019-05-30 07:48:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 530.90 Mbit/s
95th percentile per-packet one-way delay: 175.626 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 530.90 Mbit/s
95th percentile per-packet one-way delay: 175.626 ms
Loss rate: 1.13%

Run 3: Report of Indigo-MusesC3 — Data Link

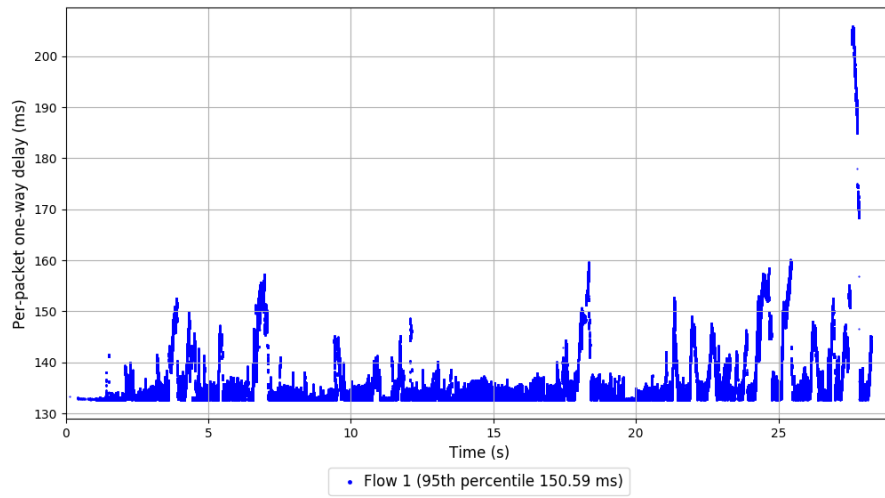
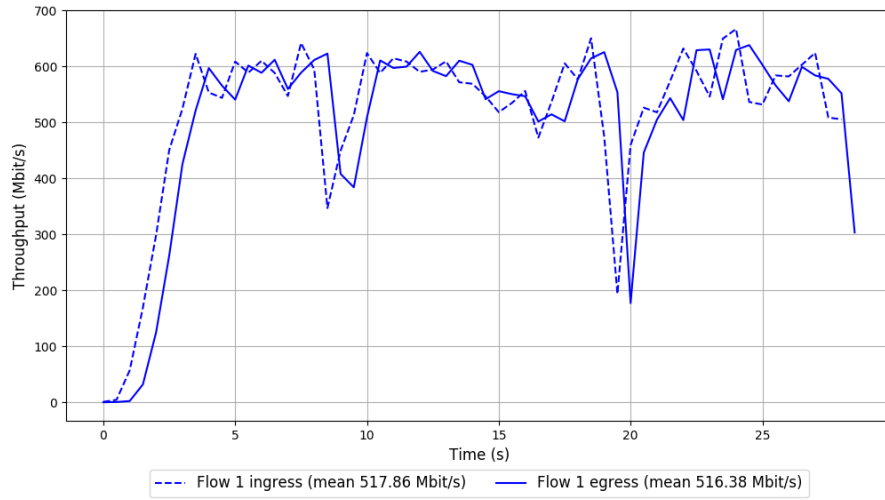


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-05-30 06:17:26
End at: 2019-05-30 06:17:56
Local clock offset: -0.165 ms
Remote clock offset: -0.047 ms

```
# Below is generated by plot.py at 2019-05-30 07:50:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 516.38 Mbit/s
95th percentile per-packet one-way delay: 150.585 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 516.38 Mbit/s
95th percentile per-packet one-way delay: 150.585 ms
Loss rate: 1.23%
```

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-05-30 06:49:06

End at: 2019-05-30 06:49:37

Local clock offset: -0.17 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2019-05-30 07:50:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 534.52 Mbit/s

95th percentile per-packet one-way delay: 145.758 ms

Loss rate: 1.08%

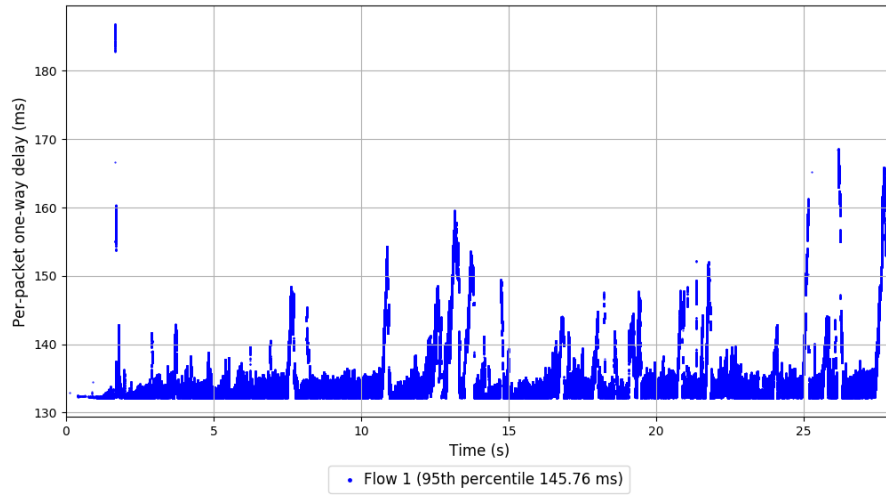
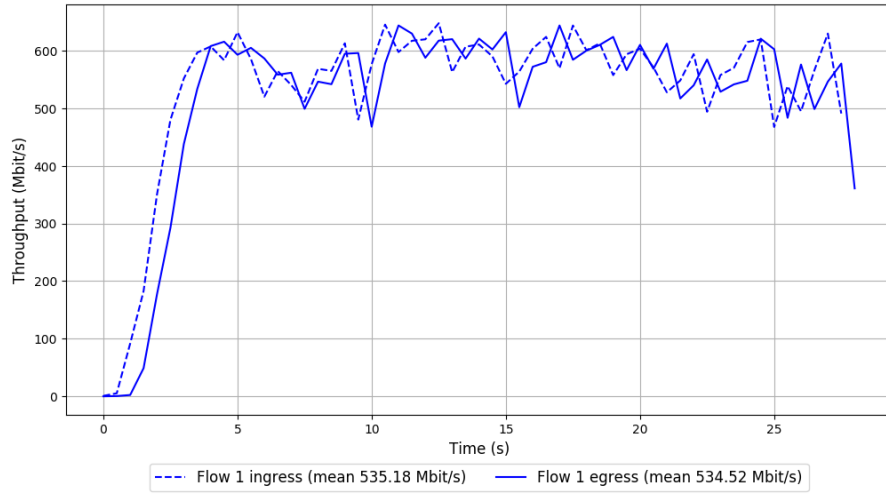
-- Flow 1:

Average throughput: 534.52 Mbit/s

95th percentile per-packet one-way delay: 145.758 ms

Loss rate: 1.08%

Run 5: Report of Indigo-MusesC3 — Data Link

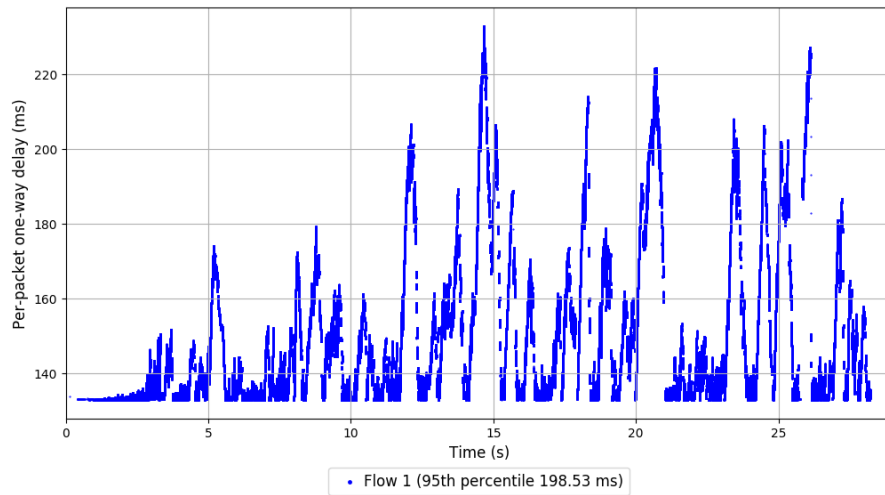
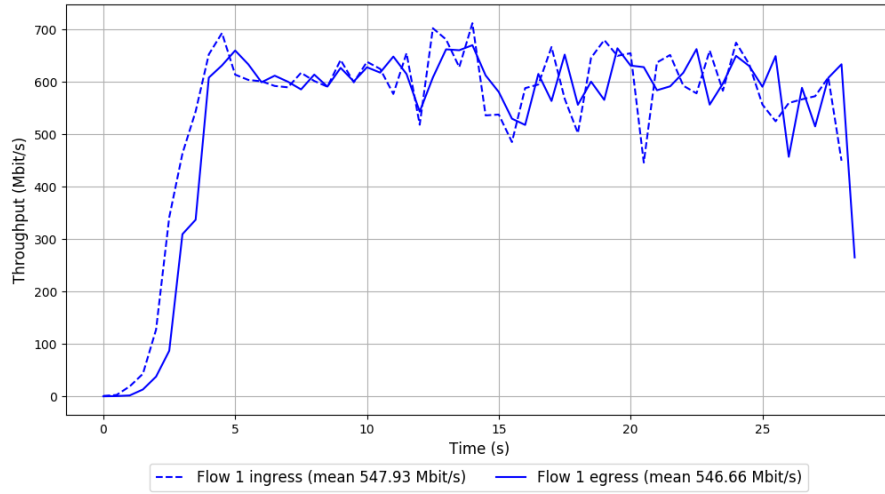


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-05-30 04:32:55
End at: 2019-05-30 04:33:25
Local clock offset: 0.068 ms
Remote clock offset: -0.137 ms

Below is generated by plot.py at 2019-05-30 07:52:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 546.66 Mbit/s
95th percentile per-packet one-way delay: 198.530 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 546.66 Mbit/s
95th percentile per-packet one-way delay: 198.530 ms
Loss rate: 1.17%

Run 1: Report of Indigo-MusesC5 — Data Link

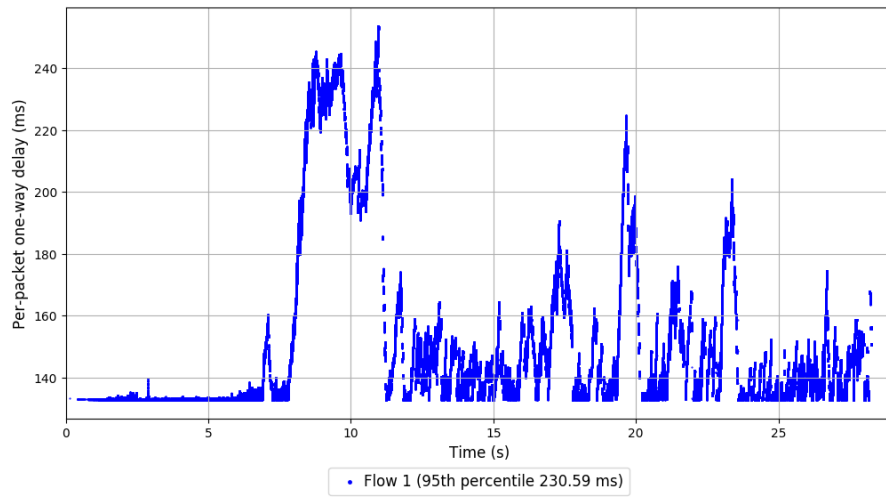
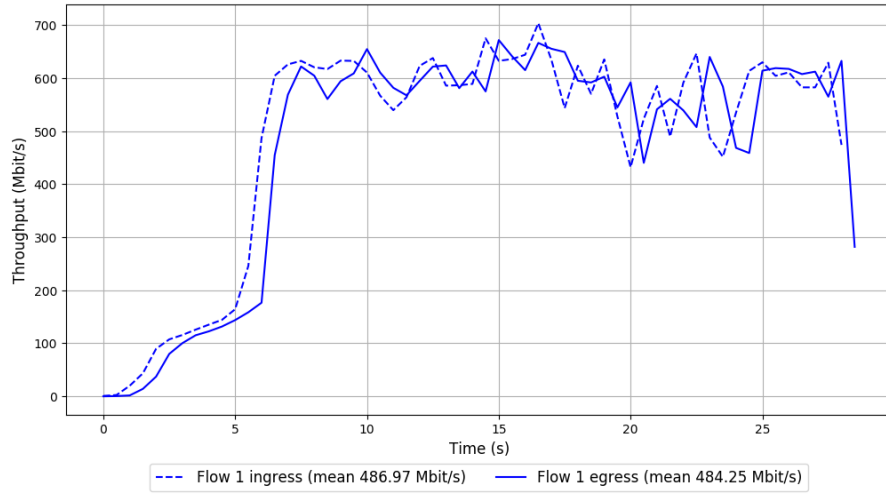


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-05-30 05:04:15
End at: 2019-05-30 05:04:45
Local clock offset: 0.022 ms
Remote clock offset: -0.153 ms

Below is generated by plot.py at 2019-05-30 07:52:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 484.25 Mbit/s
95th percentile per-packet one-way delay: 230.591 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 484.25 Mbit/s
95th percentile per-packet one-way delay: 230.591 ms
Loss rate: 1.49%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-05-30 05:34:50

End at: 2019-05-30 05:35:20

Local clock offset: 0.04 ms

Remote clock offset: 0.034 ms

Below is generated by plot.py at 2019-05-30 07:53:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 509.26 Mbit/s

95th percentile per-packet one-way delay: 203.220 ms

Loss rate: 1.31%

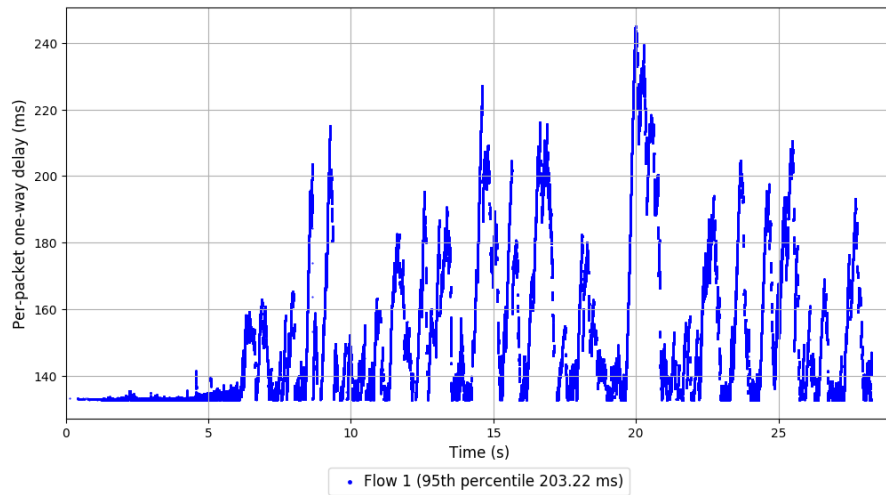
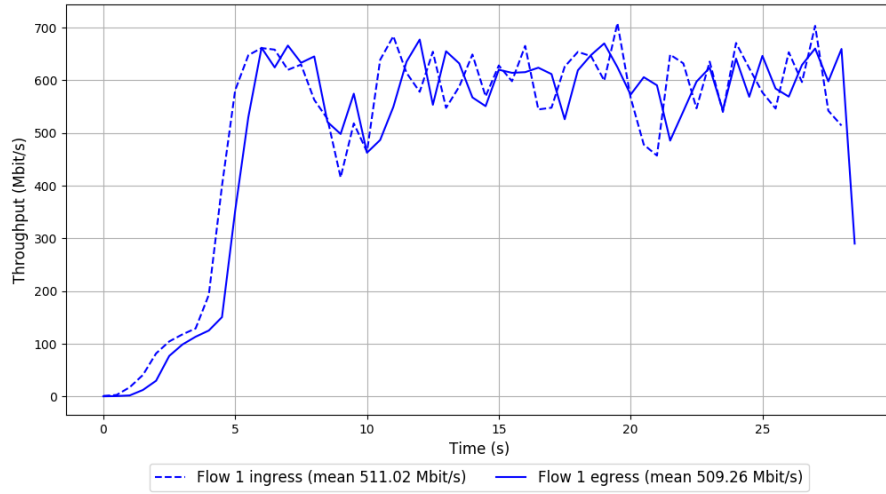
-- Flow 1:

Average throughput: 509.26 Mbit/s

95th percentile per-packet one-way delay: 203.220 ms

Loss rate: 1.31%

Run 3: Report of Indigo-MusesC5 — Data Link

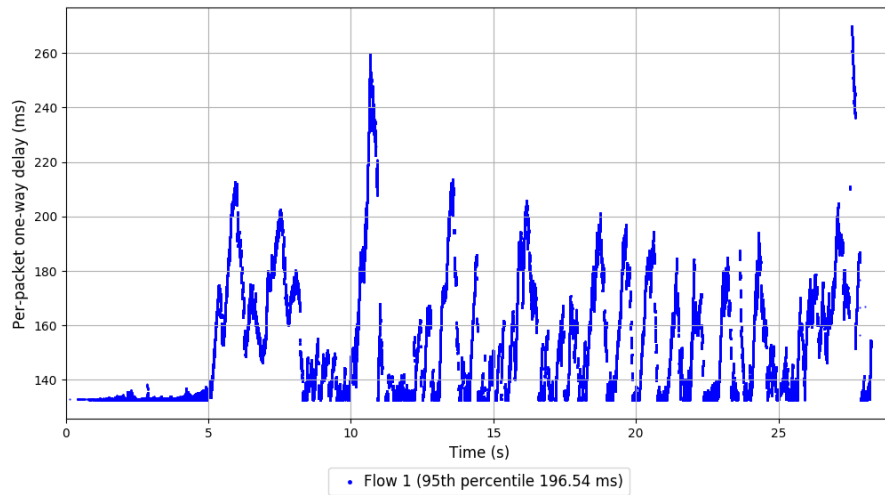
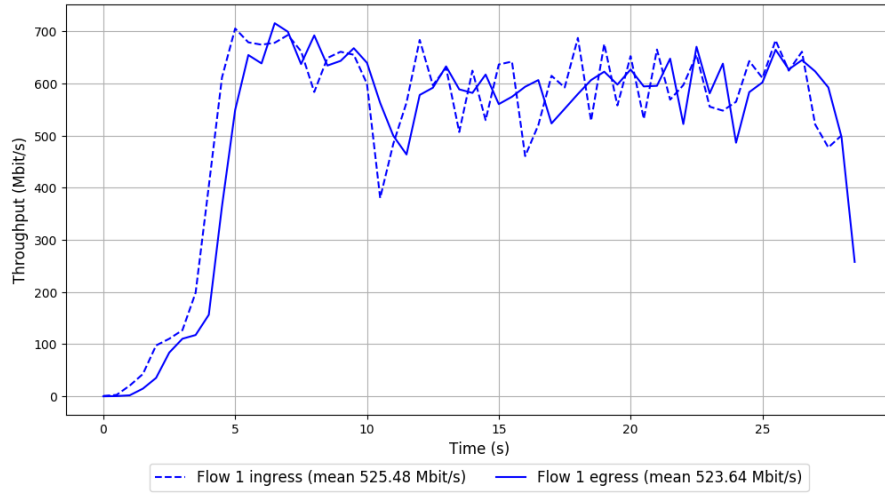


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-05-30 06:06:15
End at: 2019-05-30 06:06:45
Local clock offset: -0.253 ms
Remote clock offset: -0.089 ms

Below is generated by plot.py at 2019-05-30 07:57:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 523.64 Mbit/s
95th percentile per-packet one-way delay: 196.537 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 523.64 Mbit/s
95th percentile per-packet one-way delay: 196.537 ms
Loss rate: 1.29%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-05-30 06:38:13

End at: 2019-05-30 06:38:44

Local clock offset: 0.109 ms

Remote clock offset: -0.002 ms

Below is generated by plot.py at 2019-05-30 07:57:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 532.54 Mbit/s

95th percentile per-packet one-way delay: 159.125 ms

Loss rate: 1.00%

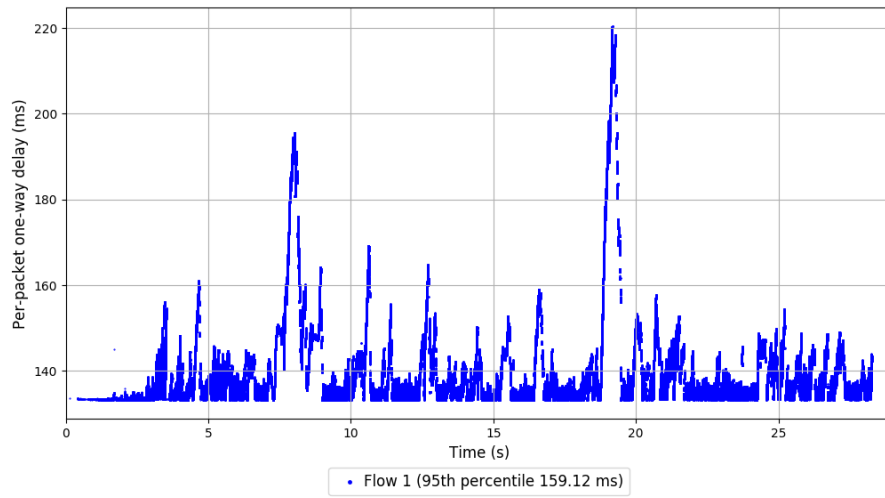
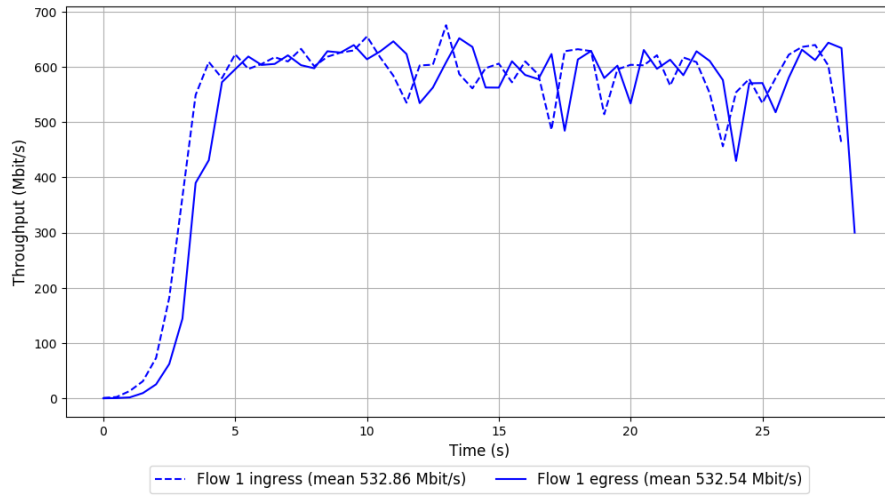
-- Flow 1:

Average throughput: 532.54 Mbit/s

95th percentile per-packet one-way delay: 159.125 ms

Loss rate: 1.00%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-05-30 04:42:12

End at: 2019-05-30 04:42:42

Local clock offset: 0.04 ms

Remote clock offset: -0.187 ms

Below is generated by plot.py at 2019-05-30 07:57:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 485.57 Mbit/s

95th percentile per-packet one-way delay: 174.012 ms

Loss rate: 1.06%

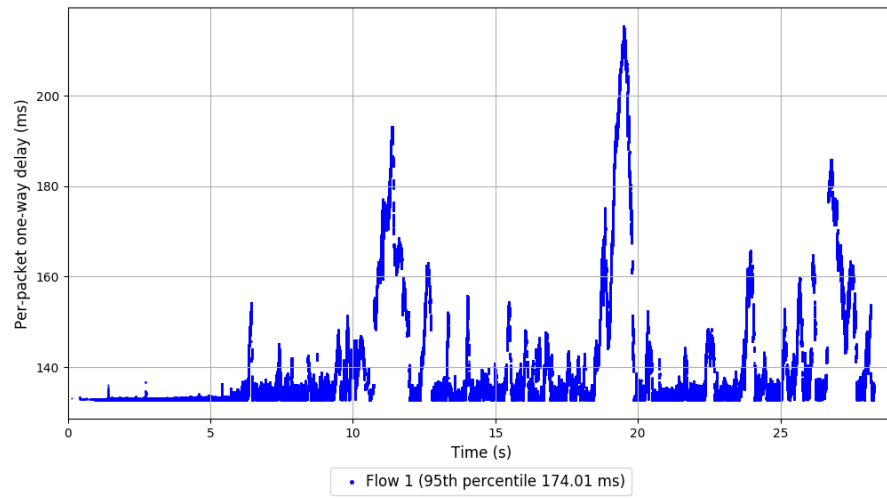
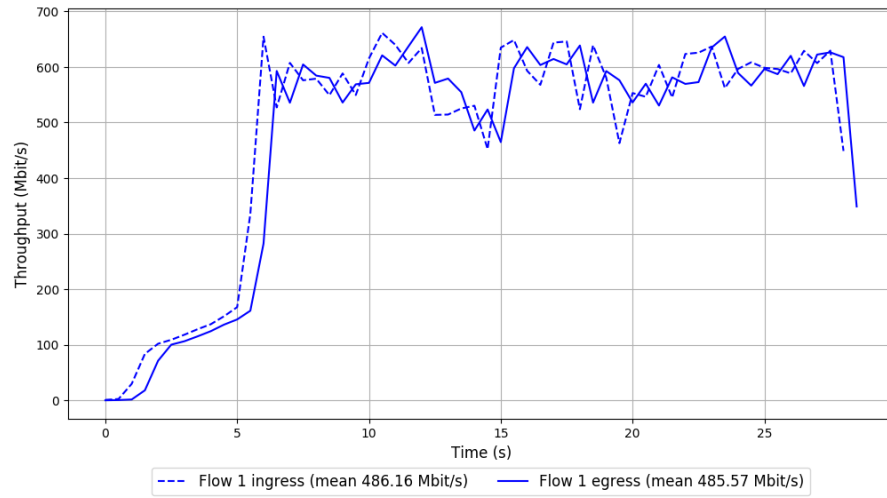
-- Flow 1:

Average throughput: 485.57 Mbit/s

95th percentile per-packet one-way delay: 174.012 ms

Loss rate: 1.06%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-05-30 05:13:27

End at: 2019-05-30 05:13:57

Local clock offset: 0.01 ms

Remote clock offset: -0.138 ms

Below is generated by plot.py at 2019-05-30 07:58:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 469.99 Mbit/s

95th percentile per-packet one-way delay: 162.553 ms

Loss rate: 1.18%

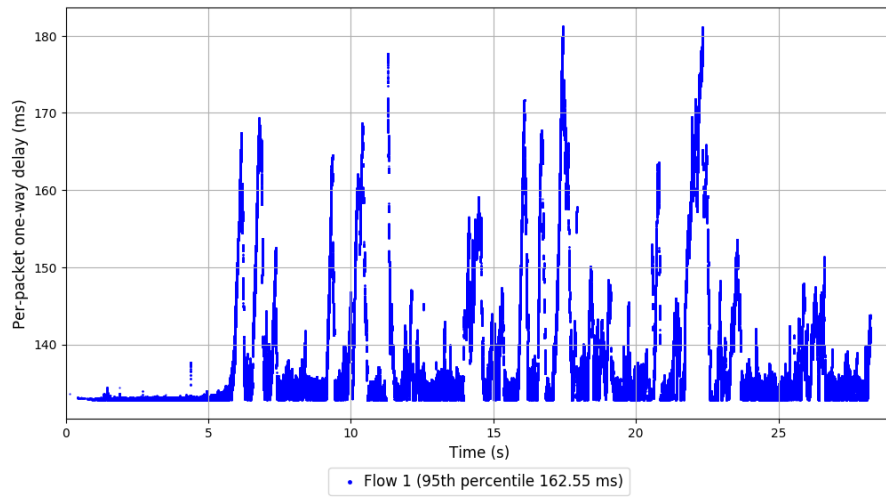
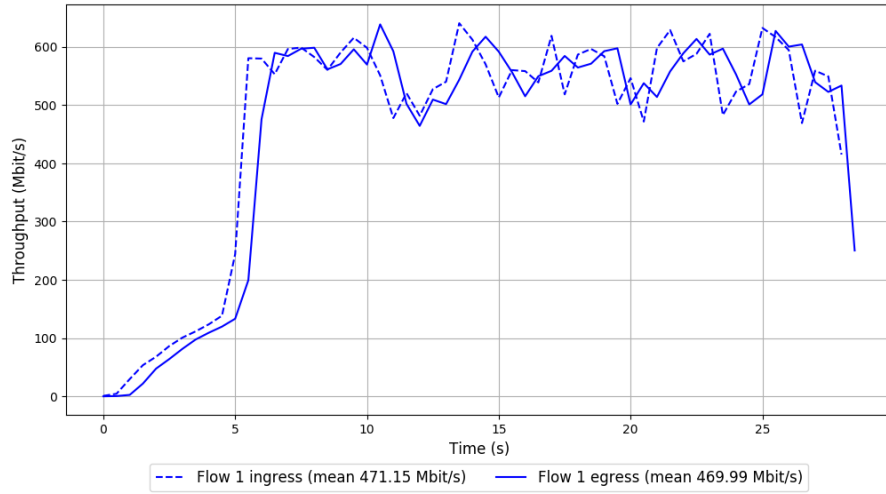
-- Flow 1:

Average throughput: 469.99 Mbit/s

95th percentile per-packet one-way delay: 162.553 ms

Loss rate: 1.18%

Run 2: Report of Indigo-MusesD — Data Link

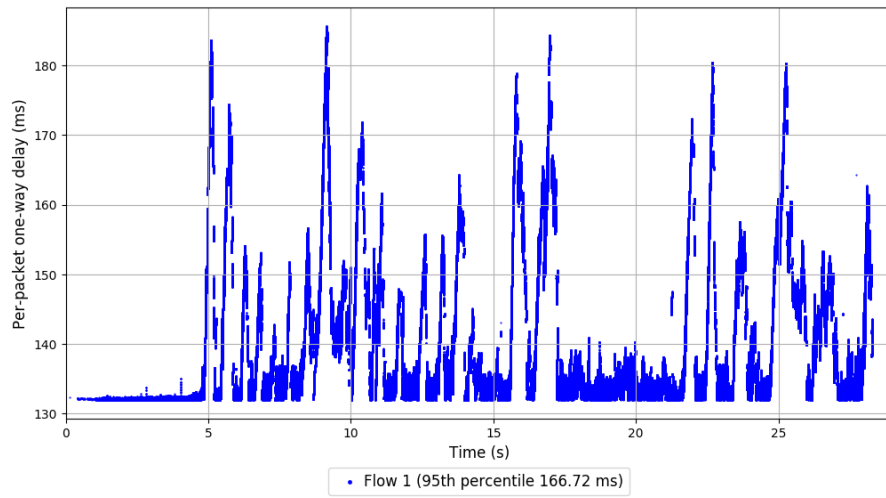
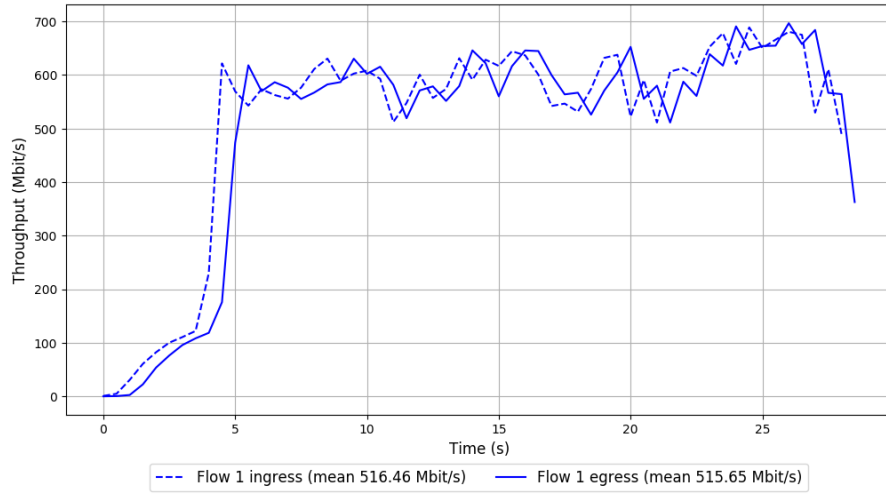


Run 3: Statistics of Indigo-MusesD

Start at: 2019-05-30 05:44:18
End at: 2019-05-30 05:44:48
Local clock offset: -0.276 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2019-05-30 07:59:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 515.65 Mbit/s
95th percentile per-packet one-way delay: 166.718 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 515.65 Mbit/s
95th percentile per-packet one-way delay: 166.718 ms
Loss rate: 1.09%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-05-30 06:15:48

End at: 2019-05-30 06:16:18

Local clock offset: 0.456 ms

Remote clock offset: -0.043 ms

Below is generated by plot.py at 2019-05-30 08:01:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 505.52 Mbit/s

95th percentile per-packet one-way delay: 187.214 ms

Loss rate: 1.06%

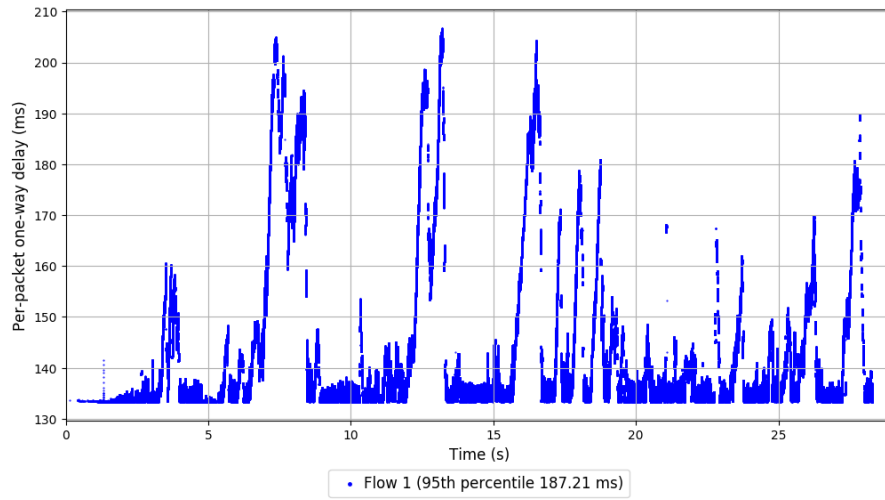
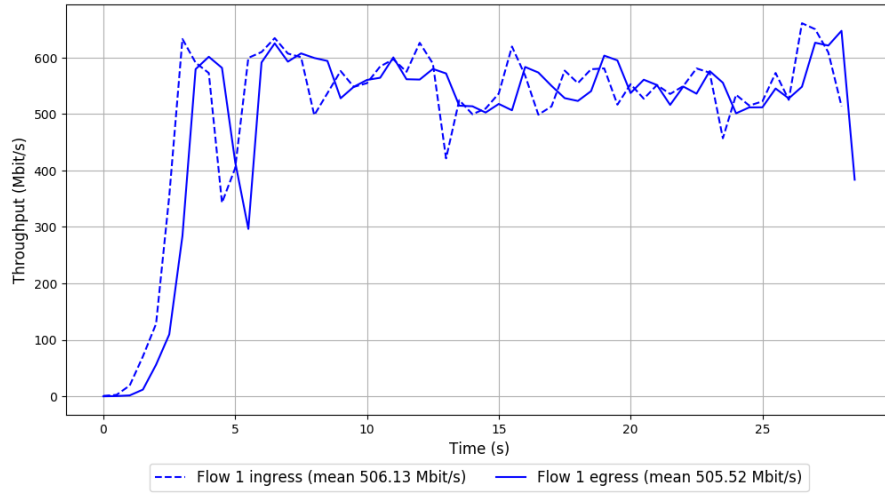
-- Flow 1:

Average throughput: 505.52 Mbit/s

95th percentile per-packet one-way delay: 187.214 ms

Loss rate: 1.06%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-05-30 06:47:30

End at: 2019-05-30 06:48:00

Local clock offset: -0.24 ms

Remote clock offset: -0.016 ms

Below is generated by plot.py at 2019-05-30 08:01:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 483.05 Mbit/s

95th percentile per-packet one-way delay: 185.962 ms

Loss rate: 1.48%

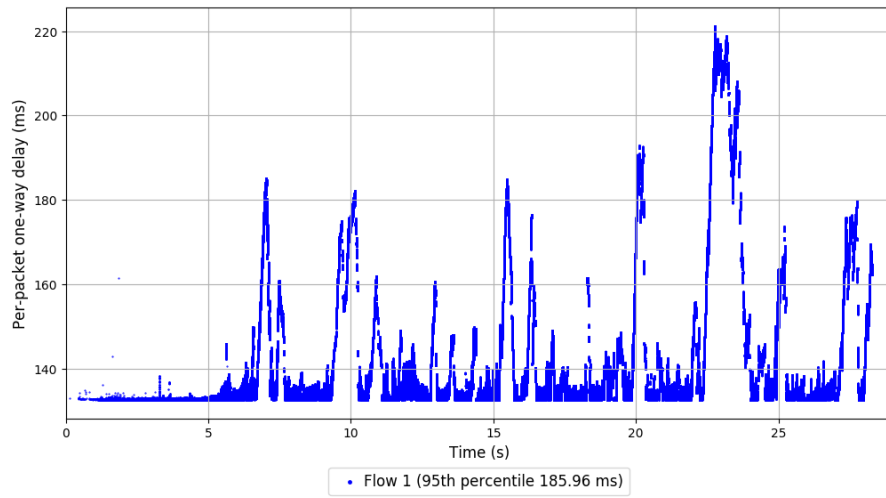
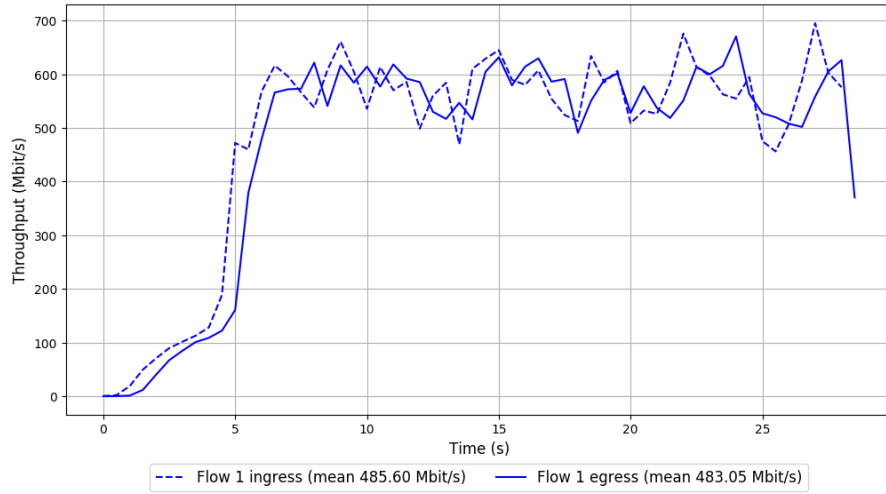
-- Flow 1:

Average throughput: 483.05 Mbit/s

95th percentile per-packet one-way delay: 185.962 ms

Loss rate: 1.48%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MuseST

Start at: 2019-05-30 04:20:54

End at: 2019-05-30 04:21:24

Local clock offset: -0.11 ms

Remote clock offset: -0.102 ms

Below is generated by plot.py at 2019-05-30 08:03:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 581.18 Mbit/s

95th percentile per-packet one-way delay: 209.188 ms

Loss rate: 1.33%

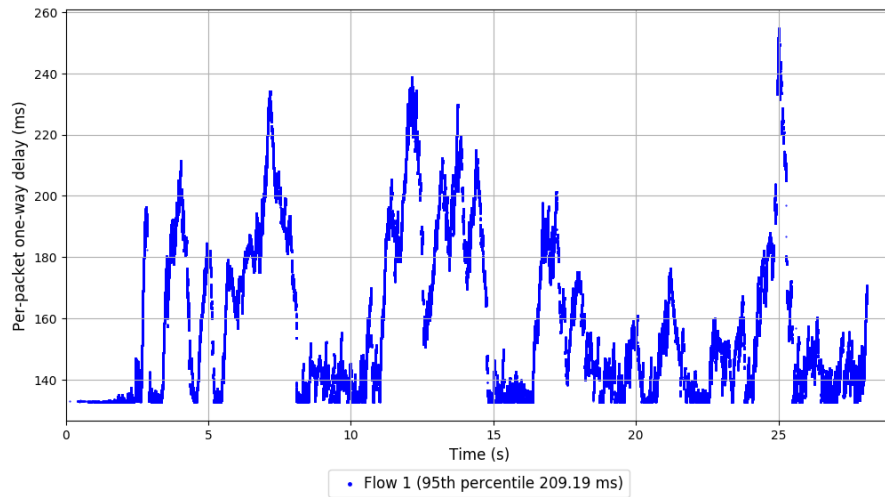
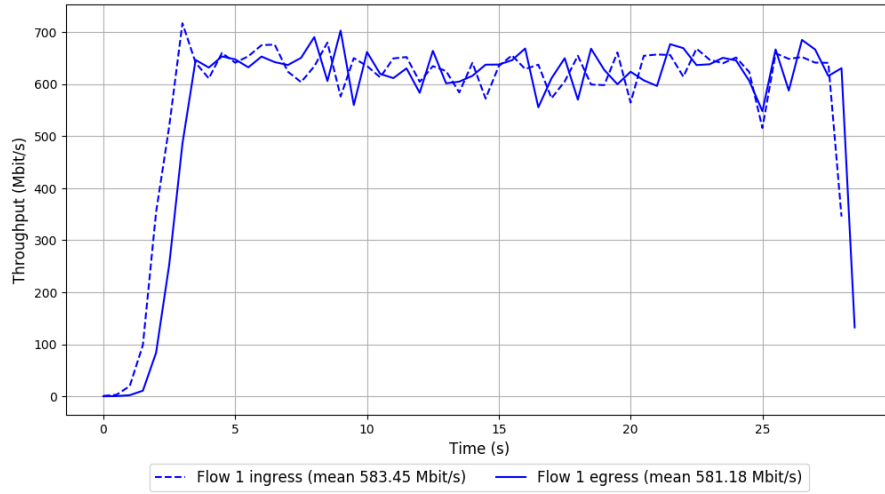
-- Flow 1:

Average throughput: 581.18 Mbit/s

95th percentile per-packet one-way delay: 209.188 ms

Loss rate: 1.33%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MuseST

Start at: 2019-05-30 04:52:20

End at: 2019-05-30 04:52:50

Local clock offset: 0.12 ms

Remote clock offset: -0.164 ms

Below is generated by plot.py at 2019-05-30 08:07:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 583.28 Mbit/s

95th percentile per-packet one-way delay: 220.010 ms

Loss rate: 1.41%

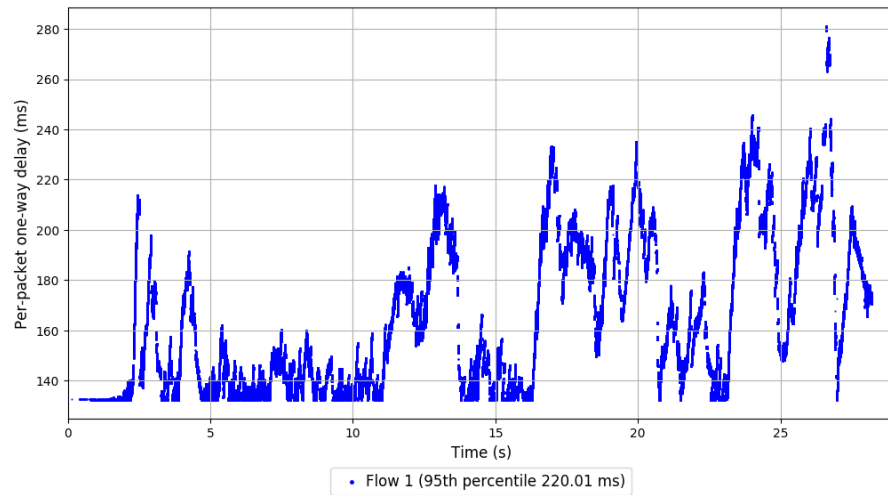
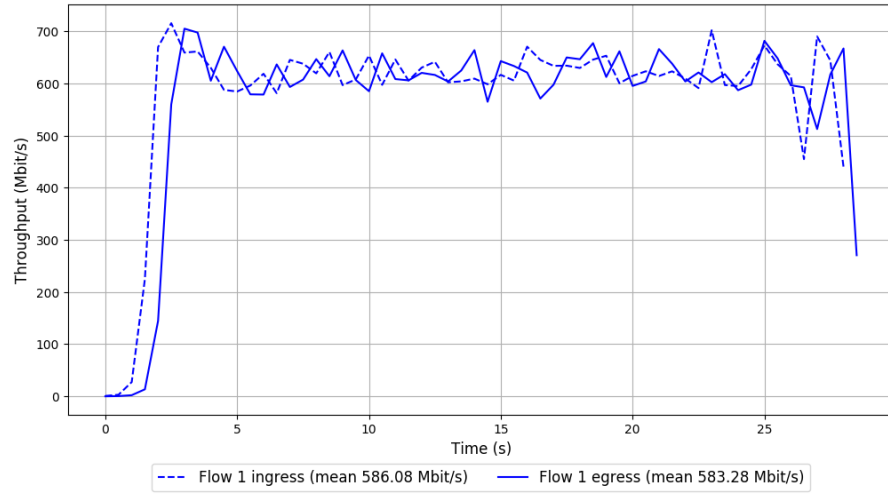
-- Flow 1:

Average throughput: 583.28 Mbit/s

95th percentile per-packet one-way delay: 220.010 ms

Loss rate: 1.41%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MuseST

Start at: 2019-05-30 05:23:20

End at: 2019-05-30 05:23:50

Local clock offset: 0.369 ms

Remote clock offset: -0.154 ms

Below is generated by plot.py at 2019-05-30 08:07:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 566.58 Mbit/s

95th percentile per-packet one-way delay: 238.218 ms

Loss rate: 1.19%

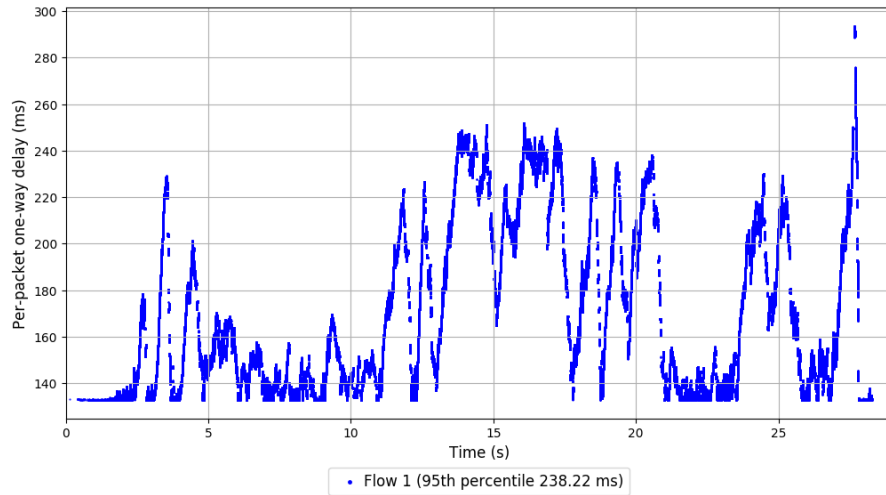
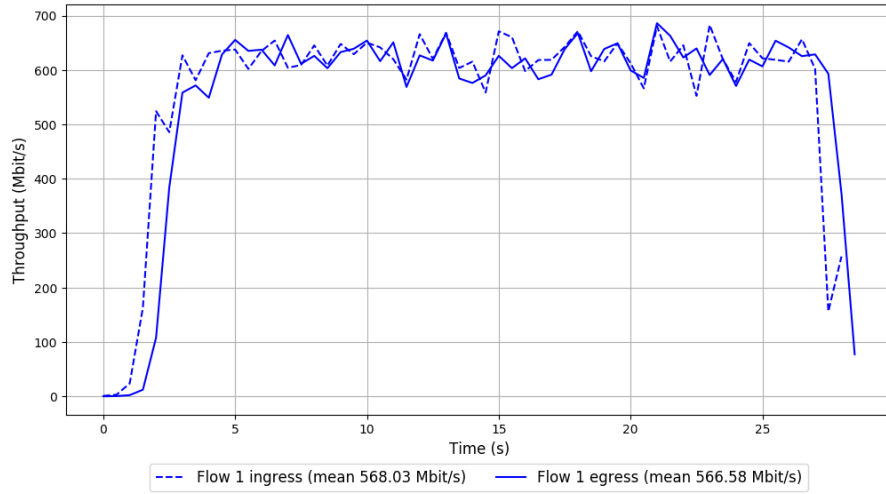
-- Flow 1:

Average throughput: 566.58 Mbit/s

95th percentile per-packet one-way delay: 238.218 ms

Loss rate: 1.19%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MuseST

Start at: 2019-05-30 05:54:26

End at: 2019-05-30 05:54:56

Local clock offset: 0.071 ms

Remote clock offset: -0.081 ms

Below is generated by plot.py at 2019-05-30 08:07:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 567.48 Mbit/s

95th percentile per-packet one-way delay: 205.704 ms

Loss rate: 1.32%

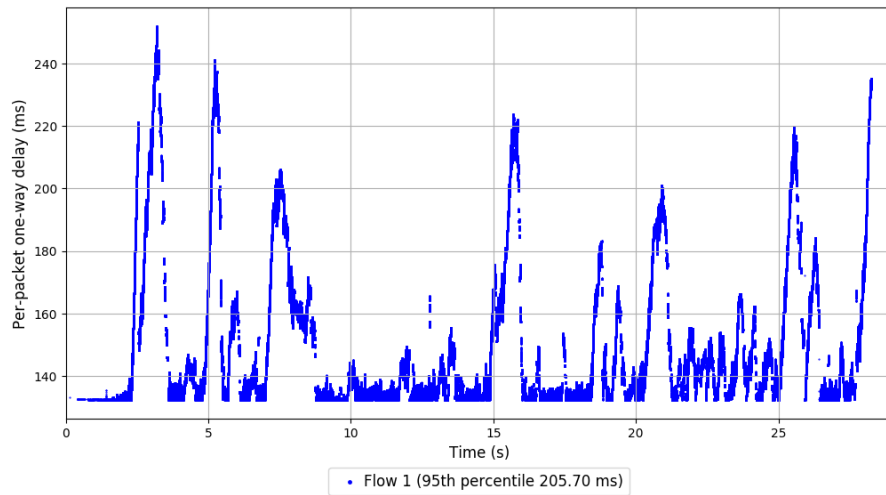
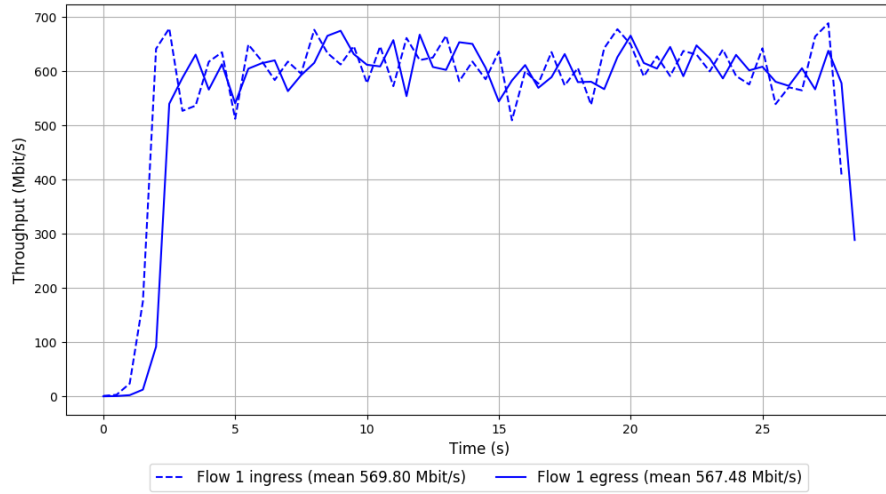
-- Flow 1:

Average throughput: 567.48 Mbit/s

95th percentile per-packet one-way delay: 205.704 ms

Loss rate: 1.32%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MuseST

Start at: 2019-05-30 06:26:20

End at: 2019-05-30 06:26:50

Local clock offset: 0.092 ms

Remote clock offset: -0.014 ms

Below is generated by plot.py at 2019-05-30 08:07:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 535.68 Mbit/s

95th percentile per-packet one-way delay: 190.799 ms

Loss rate: 1.36%

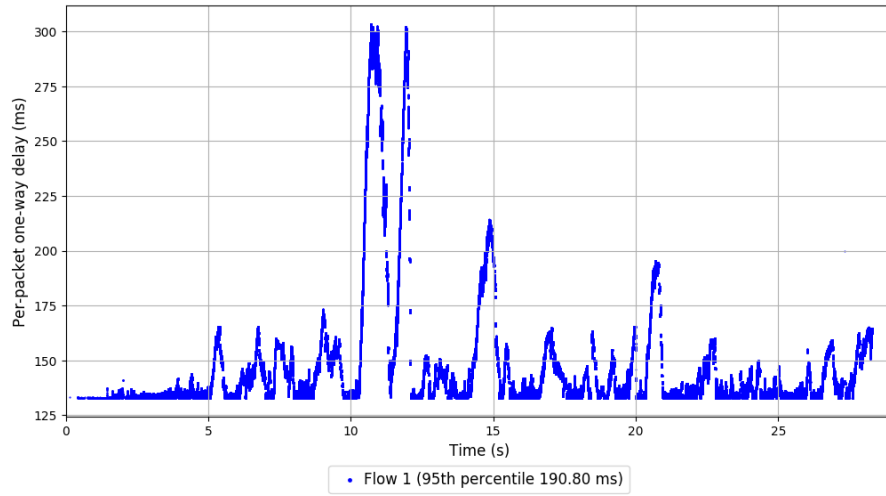
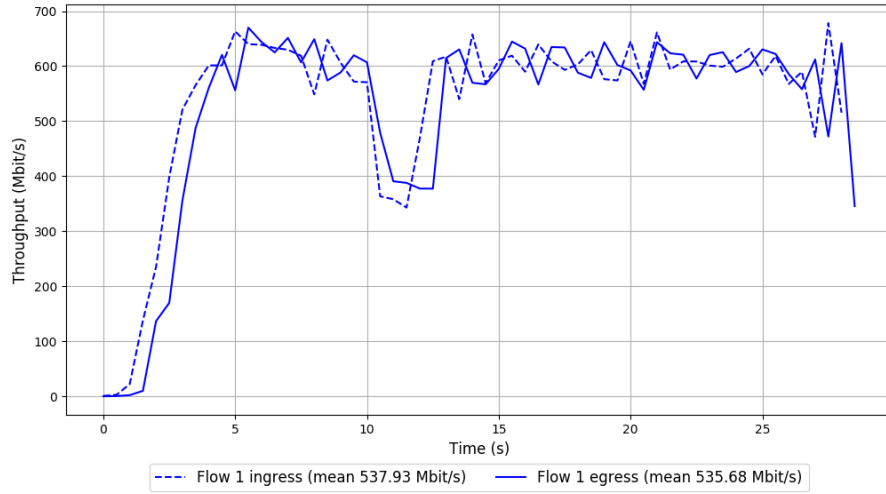
-- Flow 1:

Average throughput: 535.68 Mbit/s

95th percentile per-packet one-way delay: 190.799 ms

Loss rate: 1.36%

Run 5: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2019-05-30 04:22:36

End at: 2019-05-30 04:23:06

Local clock offset: 0.269 ms

Remote clock offset: -0.113 ms

Below is generated by plot.py at 2019-05-30 08:07:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.24 Mbit/s

95th percentile per-packet one-way delay: 134.114 ms

Loss rate: 1.78%

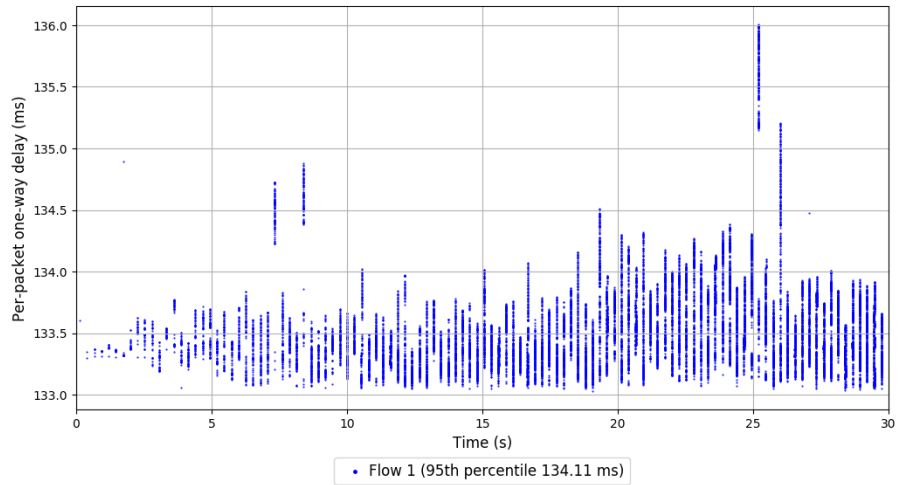
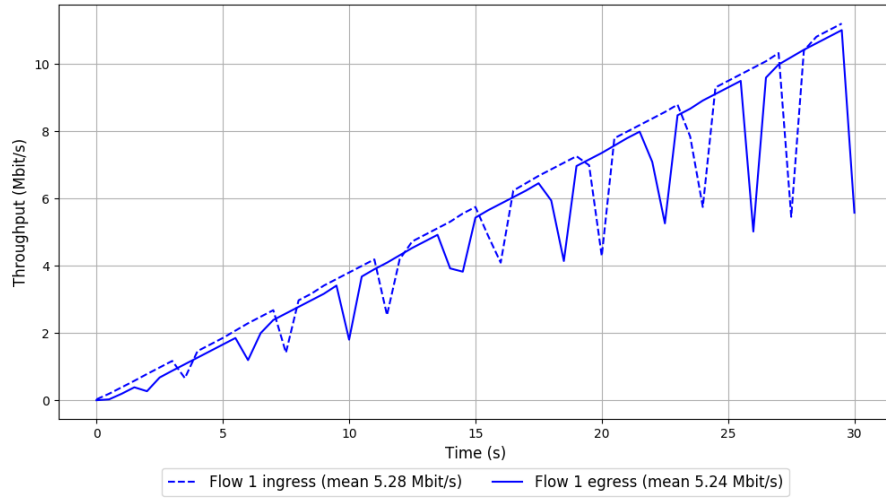
-- Flow 1:

Average throughput: 5.24 Mbit/s

95th percentile per-packet one-way delay: 134.114 ms

Loss rate: 1.78%

Run 1: Report of LEDBAT — Data Link

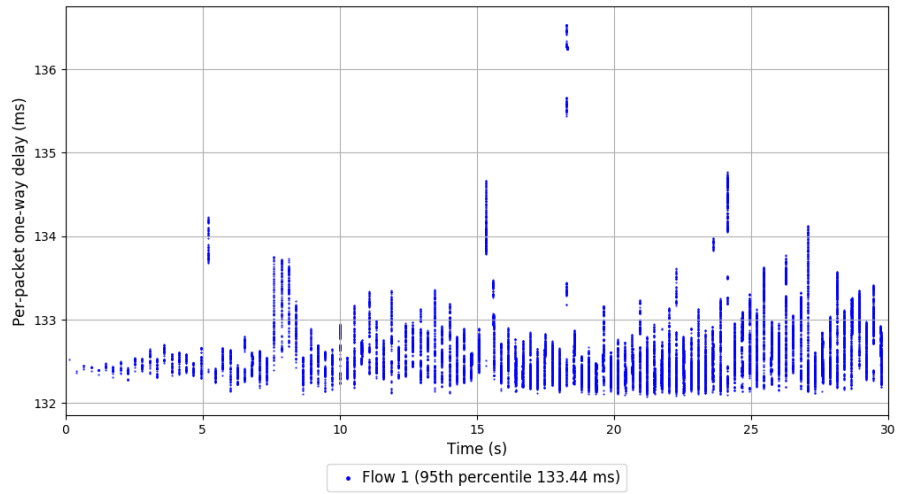
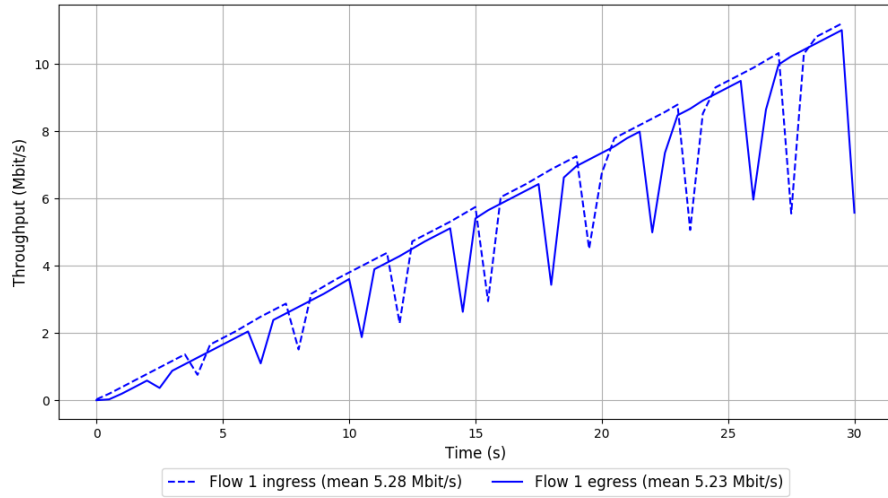


Run 2: Statistics of LEDBAT

Start at: 2019-05-30 04:54:01
End at: 2019-05-30 04:54:31
Local clock offset: -0.031 ms
Remote clock offset: -0.163 ms

Below is generated by plot.py at 2019-05-30 08:07:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 133.442 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 133.442 ms
Loss rate: 1.78%

Run 2: Report of LEDBAT — Data Link

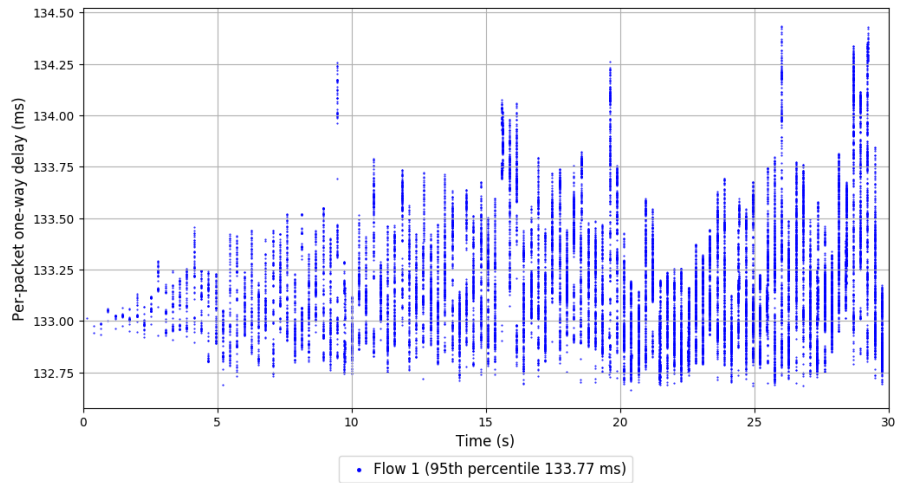
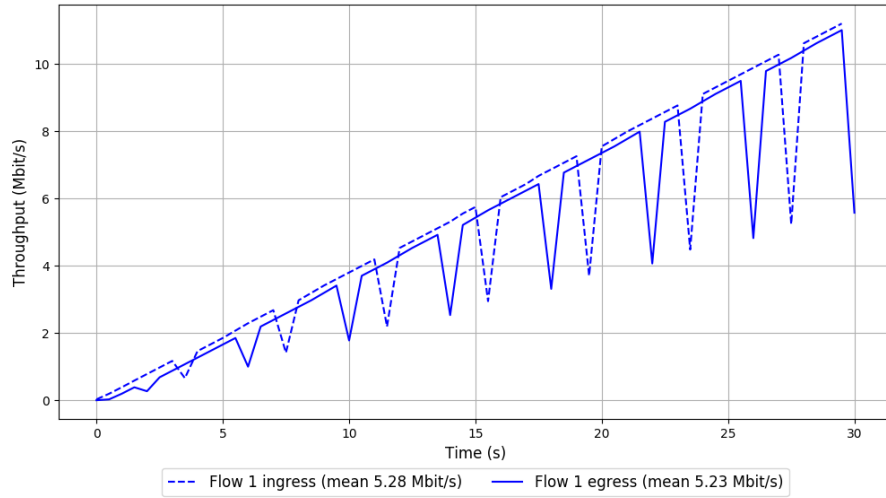


Run 3: Statistics of LEDBAT

Start at: 2019-05-30 05:25:02
End at: 2019-05-30 05:25:32
Local clock offset: -0.217 ms
Remote clock offset: -0.127 ms

Below is generated by plot.py at 2019-05-30 08:07:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 133.769 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 133.769 ms
Loss rate: 1.78%

Run 3: Report of LEDBAT — Data Link

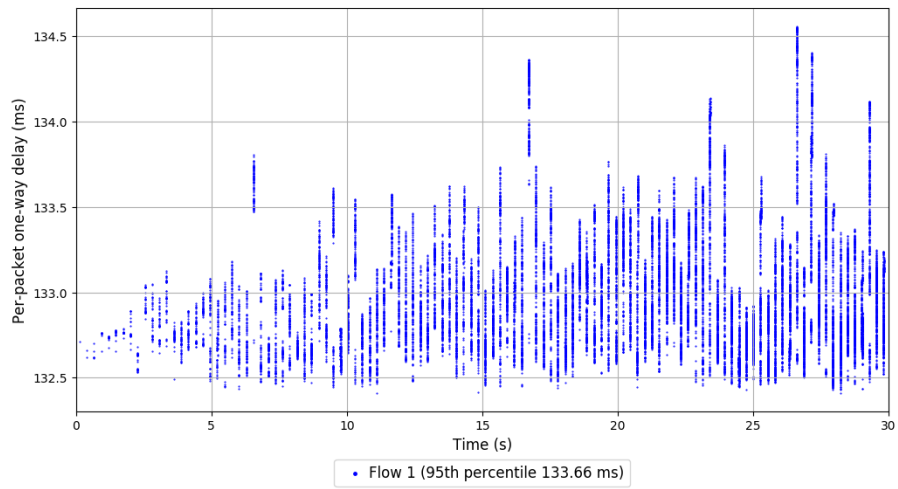
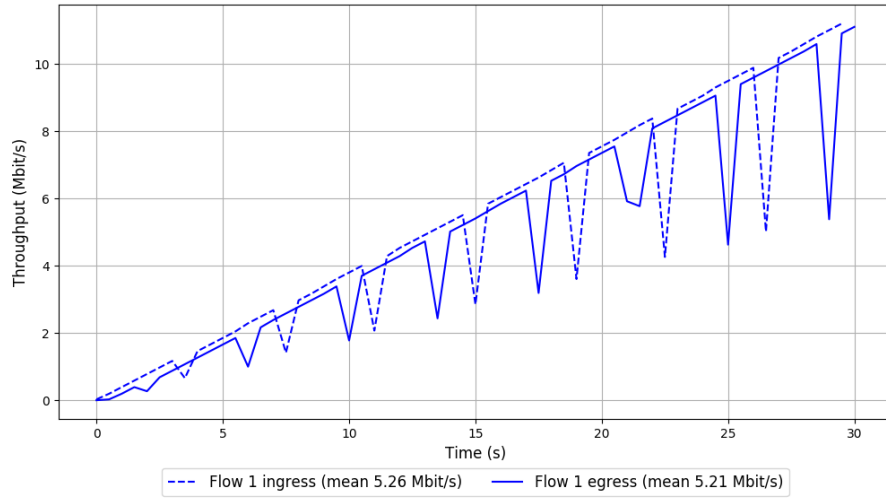


Run 4: Statistics of LEDBAT

Start at: 2019-05-30 05:56:08
End at: 2019-05-30 05:56:38
Local clock offset: -0.261 ms
Remote clock offset: -0.131 ms

Below is generated by plot.py at 2019-05-30 08:07:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.21 Mbit/s
95th percentile per-packet one-way delay: 133.658 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 5.21 Mbit/s
95th percentile per-packet one-way delay: 133.658 ms
Loss rate: 1.79%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-05-30 06:28:00

End at: 2019-05-30 06:28:30

Local clock offset: 0.092 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2019-05-30 08:07:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.21 Mbit/s

95th percentile per-packet one-way delay: 134.173 ms

Loss rate: 1.79%

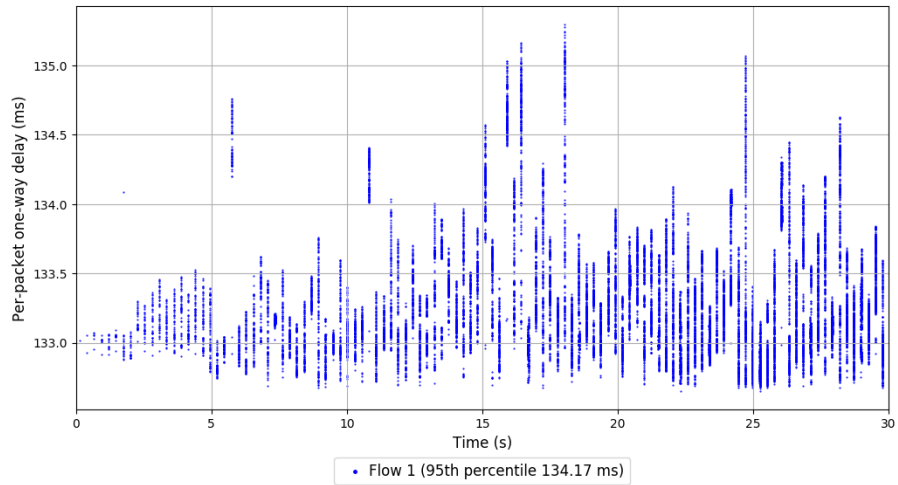
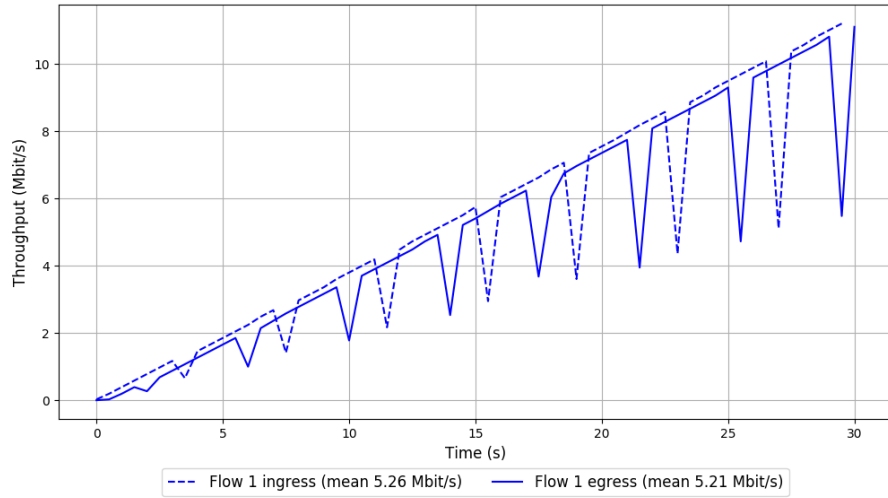
-- Flow 1:

Average throughput: 5.21 Mbit/s

95th percentile per-packet one-way delay: 134.173 ms

Loss rate: 1.79%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-05-30 04:23:48

End at: 2019-05-30 04:24:18

Local clock offset: 0.376 ms

Remote clock offset: -0.095 ms

Below is generated by plot.py at 2019-05-30 08:13:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 349.89 Mbit/s

95th percentile per-packet one-way delay: 218.311 ms

Loss rate: 1.73%

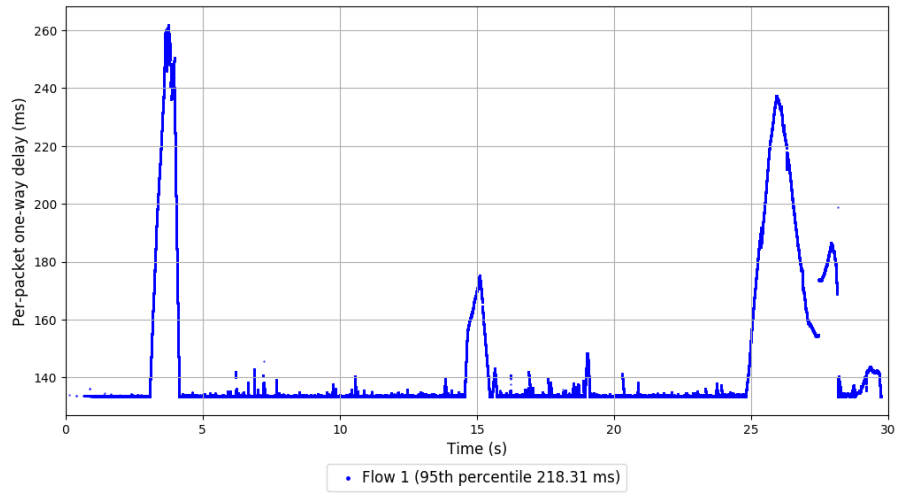
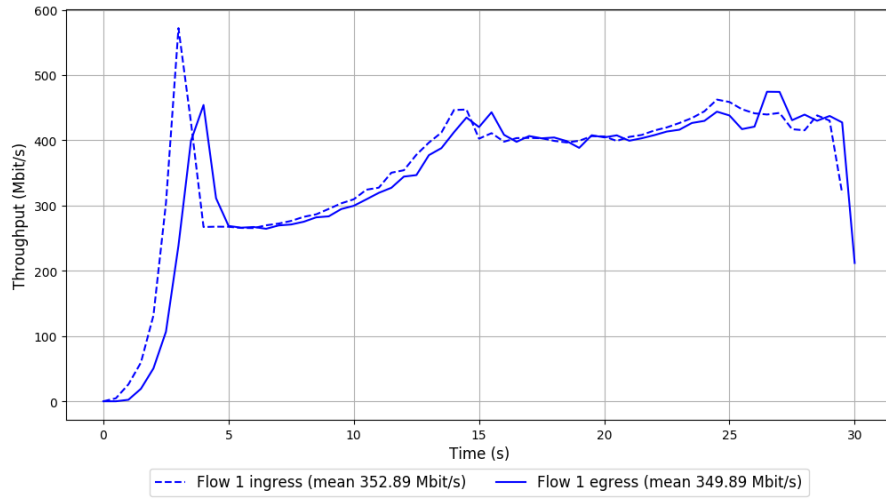
-- Flow 1:

Average throughput: 349.89 Mbit/s

95th percentile per-packet one-way delay: 218.311 ms

Loss rate: 1.73%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-05-30 04:55:13

End at: 2019-05-30 04:55:43

Local clock offset: 0.506 ms

Remote clock offset: -0.174 ms

Below is generated by plot.py at 2019-05-30 08:13:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 318.17 Mbit/s

95th percentile per-packet one-way delay: 144.278 ms

Loss rate: 2.33%

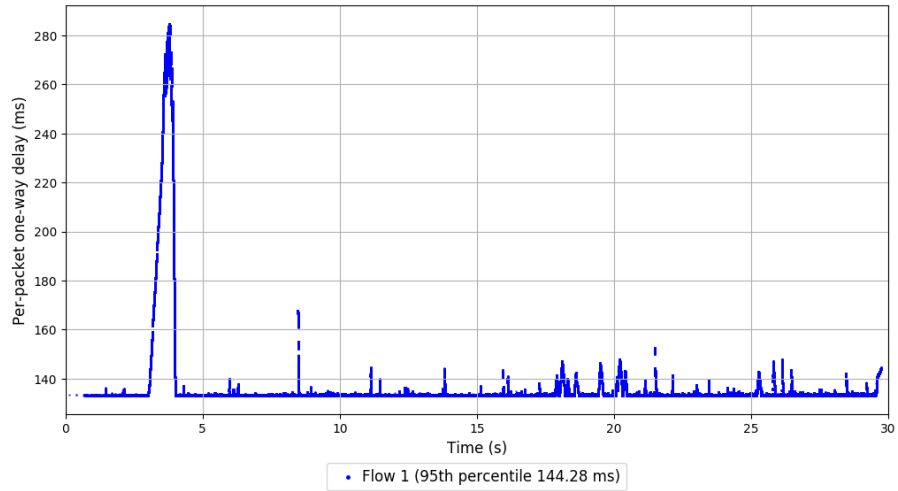
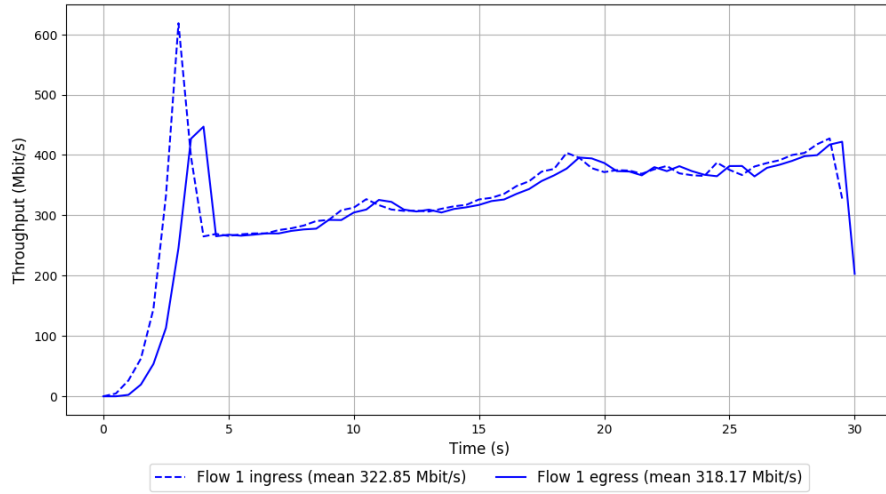
-- Flow 1:

Average throughput: 318.17 Mbit/s

95th percentile per-packet one-way delay: 144.278 ms

Loss rate: 2.33%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-05-30 05:26:14

End at: 2019-05-30 05:26:44

Local clock offset: -0.065 ms

Remote clock offset: -0.176 ms

Below is generated by plot.py at 2019-05-30 08:14:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 359.19 Mbit/s

95th percentile per-packet one-way delay: 234.354 ms

Loss rate: 1.67%

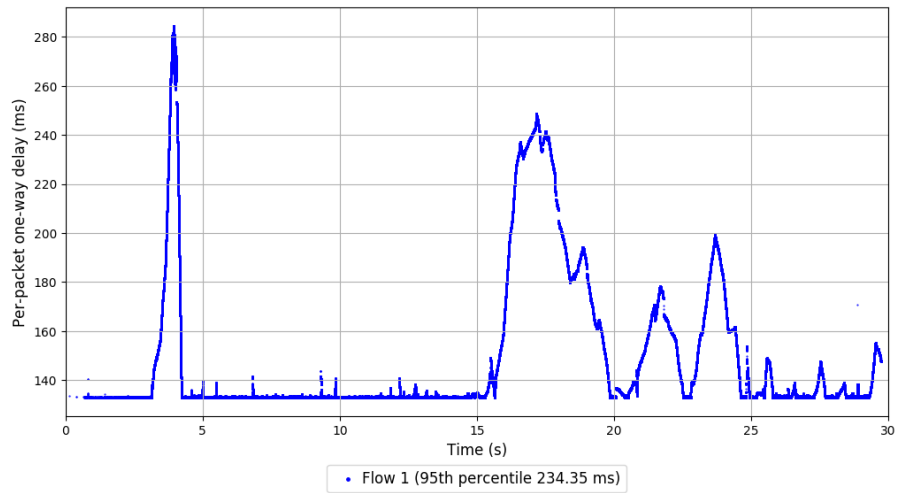
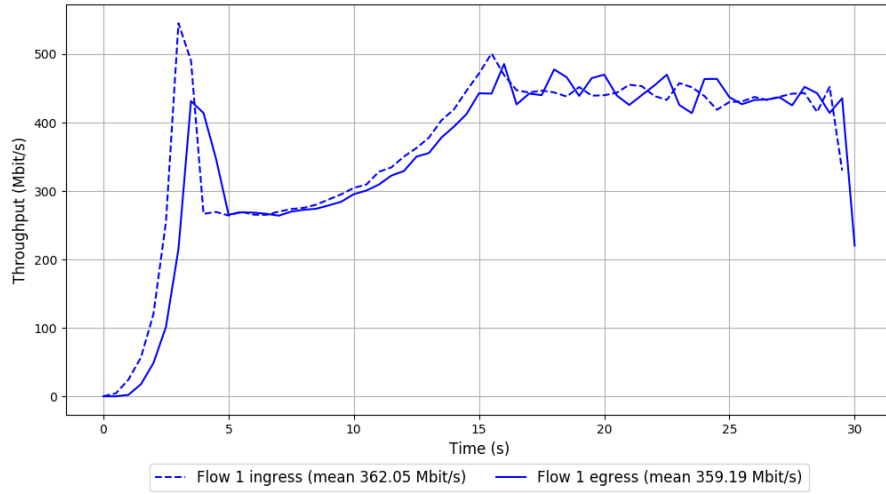
-- Flow 1:

Average throughput: 359.19 Mbit/s

95th percentile per-packet one-way delay: 234.354 ms

Loss rate: 1.67%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-05-30 05:57:20

End at: 2019-05-30 05:57:50

Local clock offset: -0.335 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at 2019-05-30 08:15:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 302.33 Mbit/s

95th percentile per-packet one-way delay: 263.328 ms

Loss rate: 4.93%

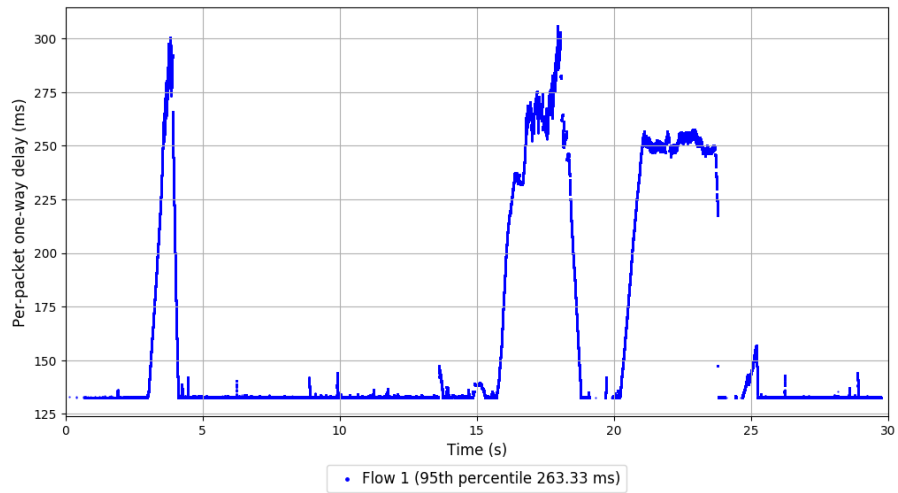
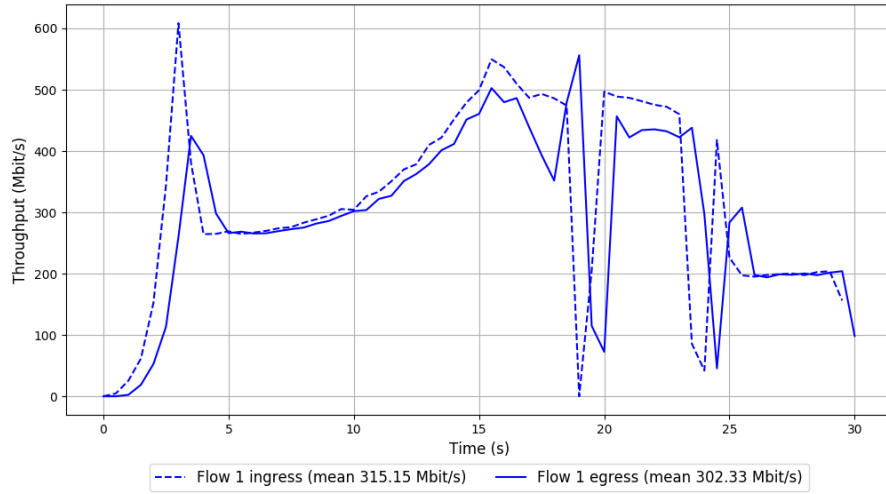
-- Flow 1:

Average throughput: 302.33 Mbit/s

95th percentile per-packet one-way delay: 263.328 ms

Loss rate: 4.93%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-05-30 06:29:12

End at: 2019-05-30 06:29:42

Local clock offset: 0.245 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2019-05-30 08:21:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 374.69 Mbit/s

95th percentile per-packet one-way delay: 255.365 ms

Loss rate: 7.67%

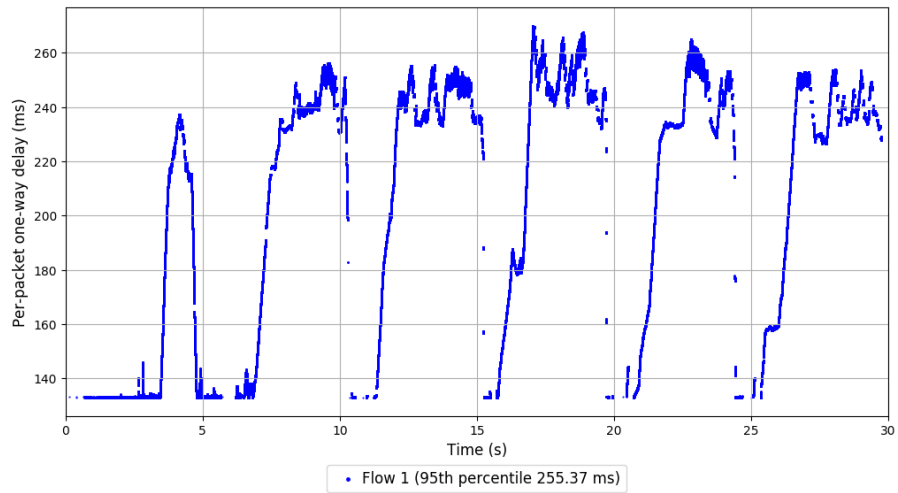
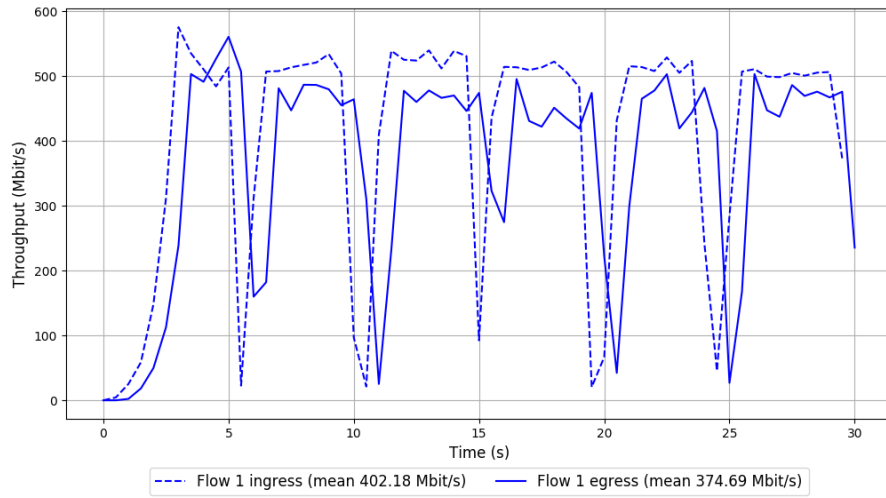
-- Flow 1:

Average throughput: 374.69 Mbit/s

95th percentile per-packet one-way delay: 255.365 ms

Loss rate: 7.67%

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2019-05-30 04:37:16

End at: 2019-05-30 04:37:46

Local clock offset: 0.367 ms

Remote clock offset: -0.157 ms

Below is generated by plot.py at 2019-05-30 08:21:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.24 Mbit/s

95th percentile per-packet one-way delay: 145.168 ms

Loss rate: 1.60%

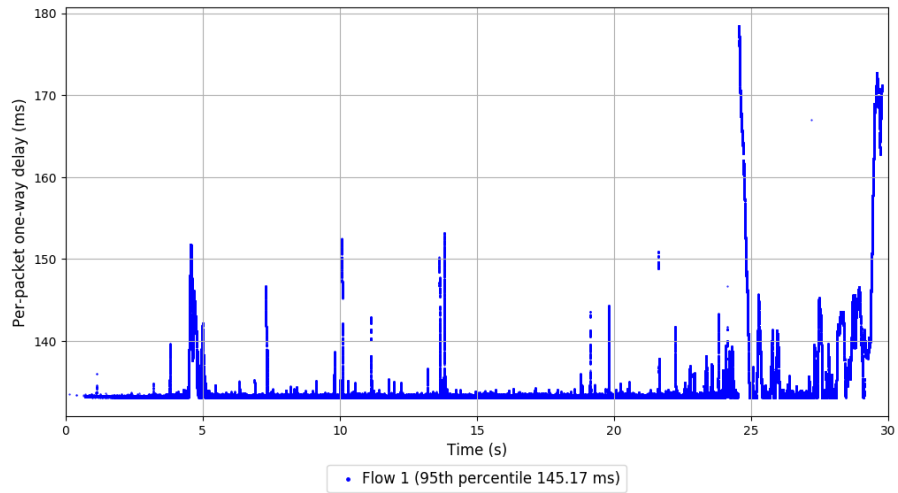
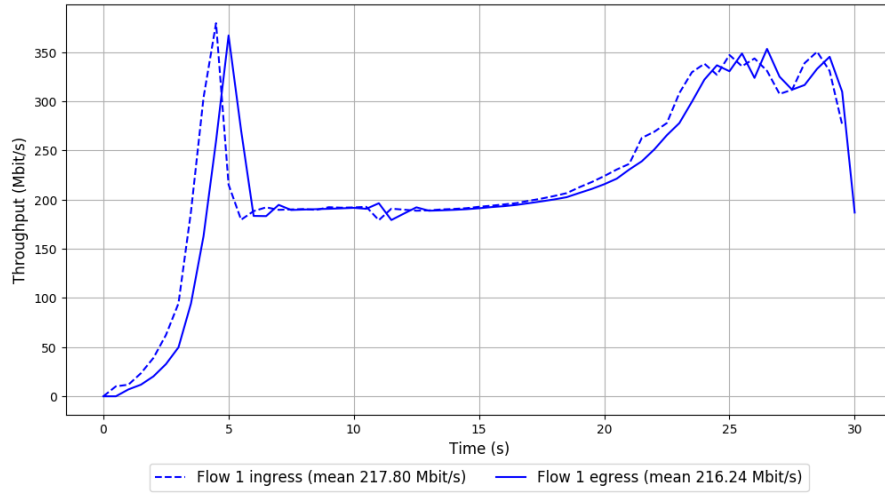
-- Flow 1:

Average throughput: 216.24 Mbit/s

95th percentile per-packet one-way delay: 145.168 ms

Loss rate: 1.60%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-05-30 05:08:42

End at: 2019-05-30 05:09:12

Local clock offset: -0.086 ms

Remote clock offset: -0.541 ms

Below is generated by plot.py at 2019-05-30 08:21:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 246.42 Mbit/s

95th percentile per-packet one-way delay: 238.940 ms

Loss rate: 4.87%

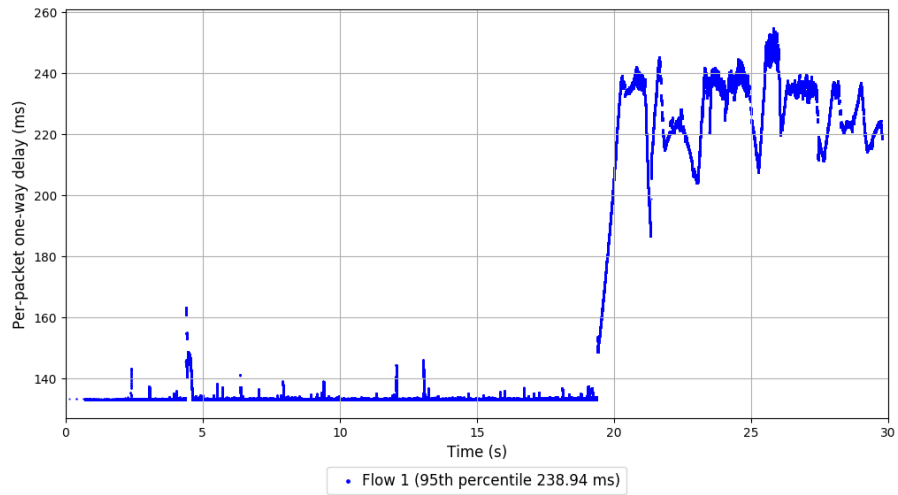
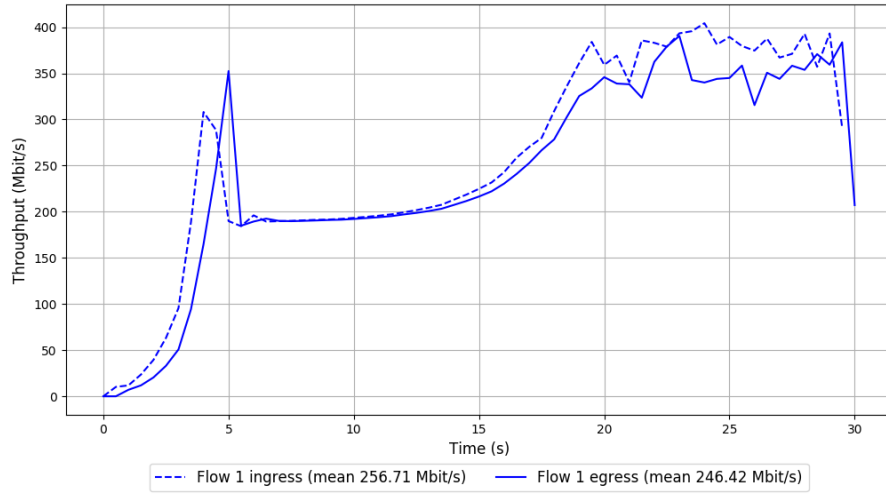
-- Flow 1:

Average throughput: 246.42 Mbit/s

95th percentile per-packet one-way delay: 238.940 ms

Loss rate: 4.87%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-05-30 05:39:08

End at: 2019-05-30 05:39:38

Local clock offset: 0.274 ms

Remote clock offset: -0.111 ms

Below is generated by plot.py at 2019-05-30 08:21:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 294.56 Mbit/s

95th percentile per-packet one-way delay: 251.441 ms

Loss rate: 6.12%

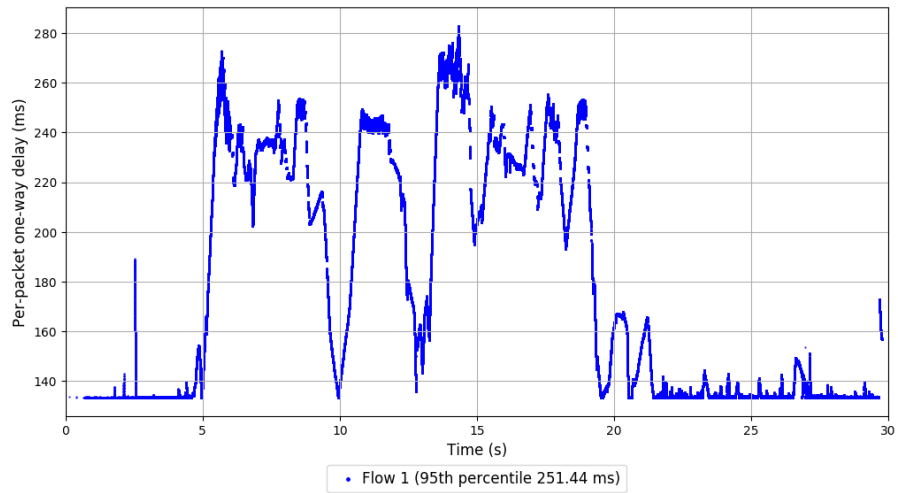
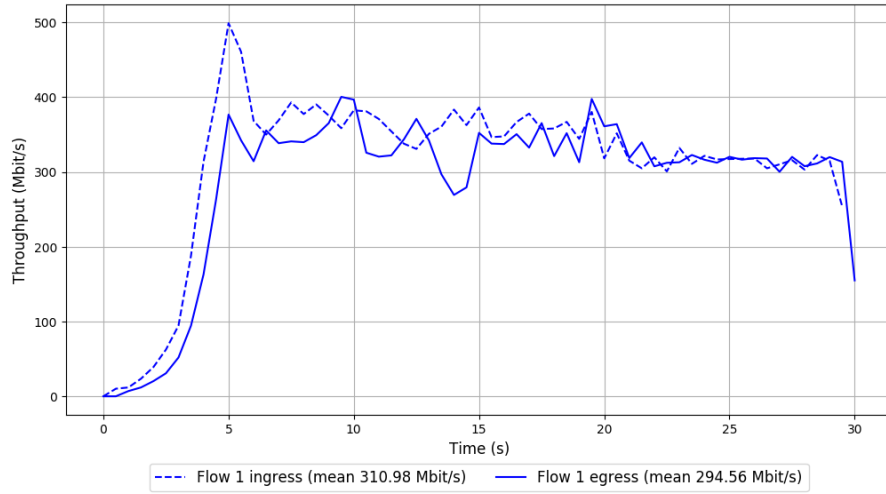
-- Flow 1:

Average throughput: 294.56 Mbit/s

95th percentile per-packet one-way delay: 251.441 ms

Loss rate: 6.12%

Run 3: Report of PCC-Expr — Data Link

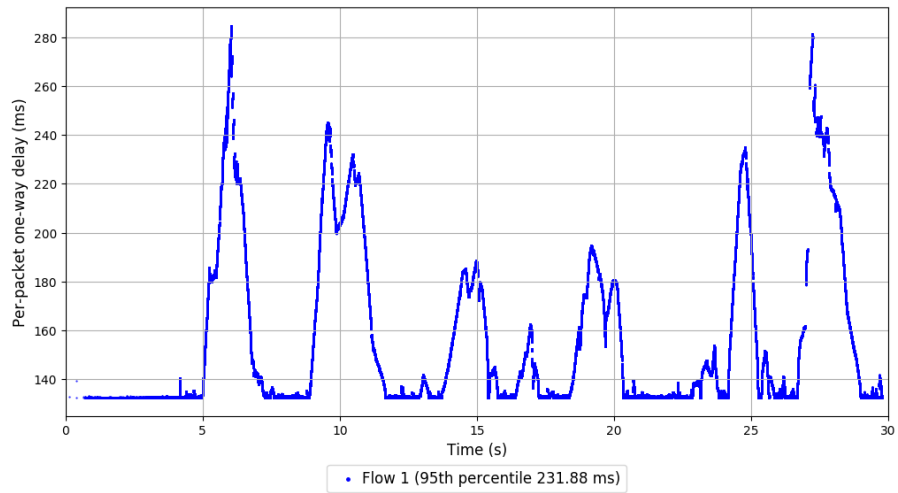
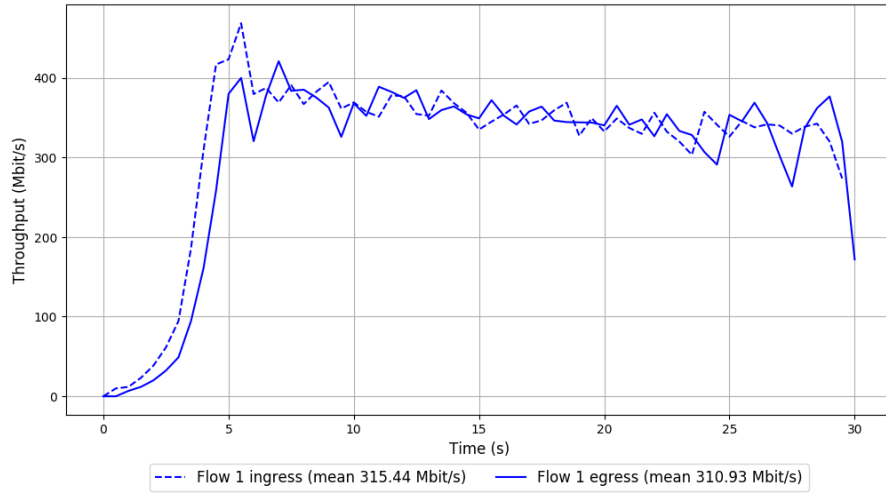


Run 4: Statistics of PCC-Expr

Start at: 2019-05-30 06:10:40
End at: 2019-05-30 06:11:10
Local clock offset: -0.133 ms
Remote clock offset: -0.045 ms

Below is generated by plot.py at 2019-05-30 08:23:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 310.93 Mbit/s
95th percentile per-packet one-way delay: 231.881 ms
Loss rate: 2.31%
-- Flow 1:
Average throughput: 310.93 Mbit/s
95th percentile per-packet one-way delay: 231.881 ms
Loss rate: 2.31%

Run 4: Report of PCC-Expr — Data Link

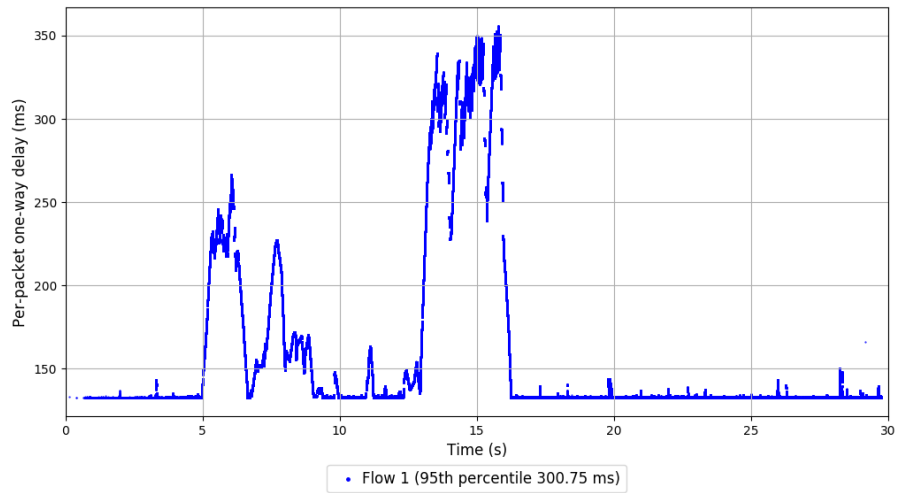
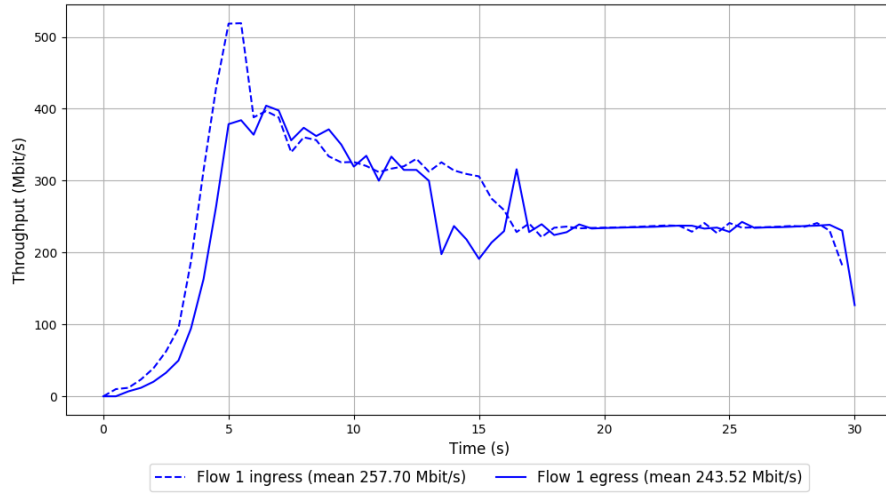


Run 5: Statistics of PCC-Expr

Start at: 2019-05-30 06:42:33
End at: 2019-05-30 06:43:03
Local clock offset: -0.109 ms
Remote clock offset: -0.013 ms

Below is generated by plot.py at 2019-05-30 08:23:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 243.52 Mbit/s
95th percentile per-packet one-way delay: 300.750 ms
Loss rate: 6.35%
-- Flow 1:
Average throughput: 243.52 Mbit/s
95th percentile per-packet one-way delay: 300.750 ms
Loss rate: 6.35%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-05-30 04:45:29

End at: 2019-05-30 04:45:59

Local clock offset: 0.164 ms

Remote clock offset: -0.149 ms

Below is generated by plot.py at 2019-05-30 08:23:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.49 Mbit/s

95th percentile per-packet one-way delay: 133.079 ms

Loss rate: 1.47%

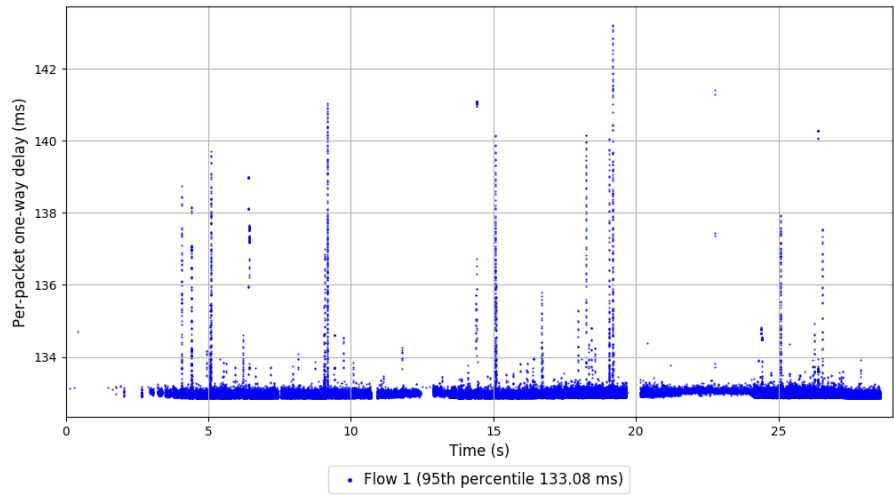
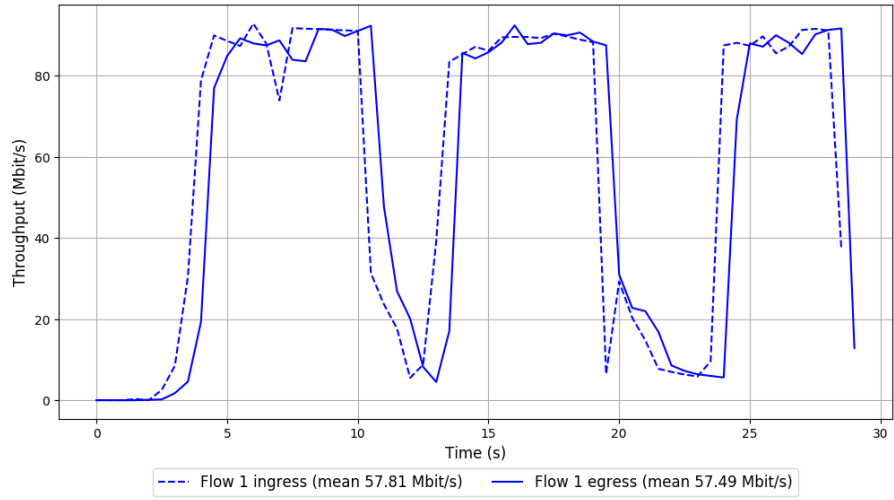
-- Flow 1:

Average throughput: 57.49 Mbit/s

95th percentile per-packet one-way delay: 133.079 ms

Loss rate: 1.47%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-05-30 05:16:44

End at: 2019-05-30 05:17:14

Local clock offset: -0.399 ms

Remote clock offset: -0.135 ms

Below is generated by plot.py at 2019-05-30 08:23:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.70 Mbit/s

95th percentile per-packet one-way delay: 132.927 ms

Loss rate: 1.33%

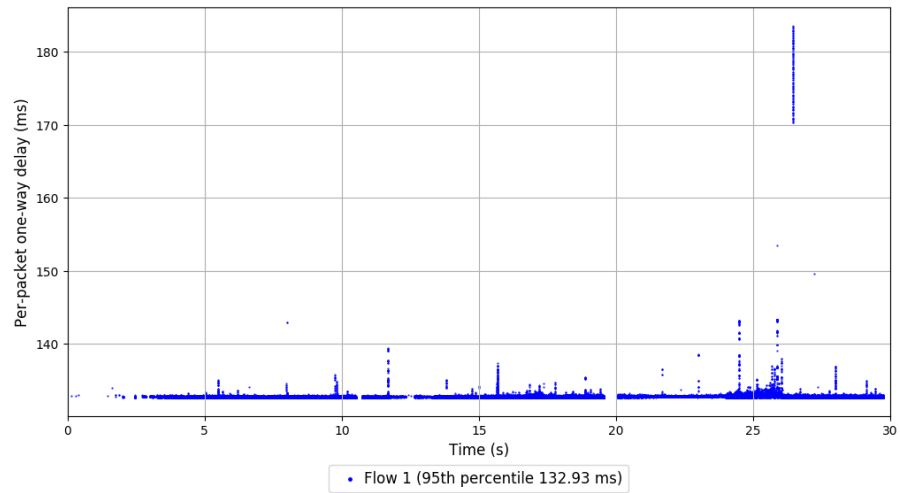
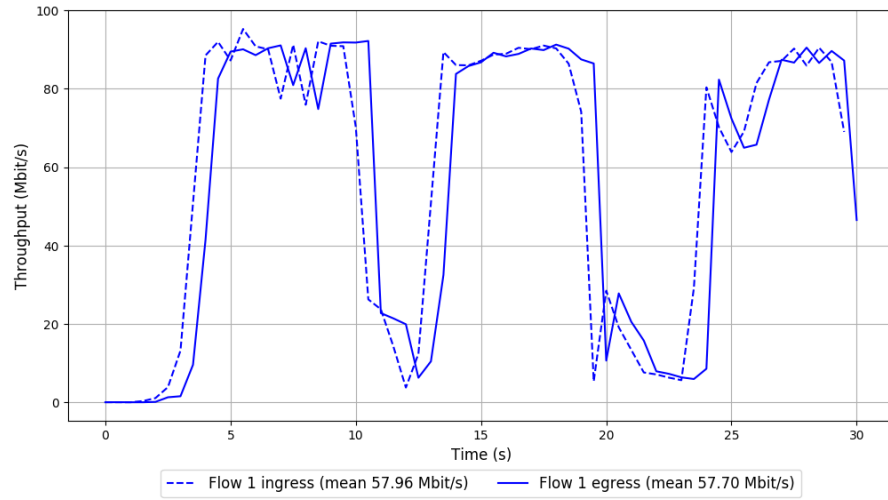
-- Flow 1:

Average throughput: 57.70 Mbit/s

95th percentile per-packet one-way delay: 132.927 ms

Loss rate: 1.33%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-05-30 05:47:37

End at: 2019-05-30 05:48:07

Local clock offset: 0.247 ms

Remote clock offset: -0.081 ms

Below is generated by plot.py at 2019-05-30 08:23:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.52 Mbit/s

95th percentile per-packet one-way delay: 133.156 ms

Loss rate: 1.24%

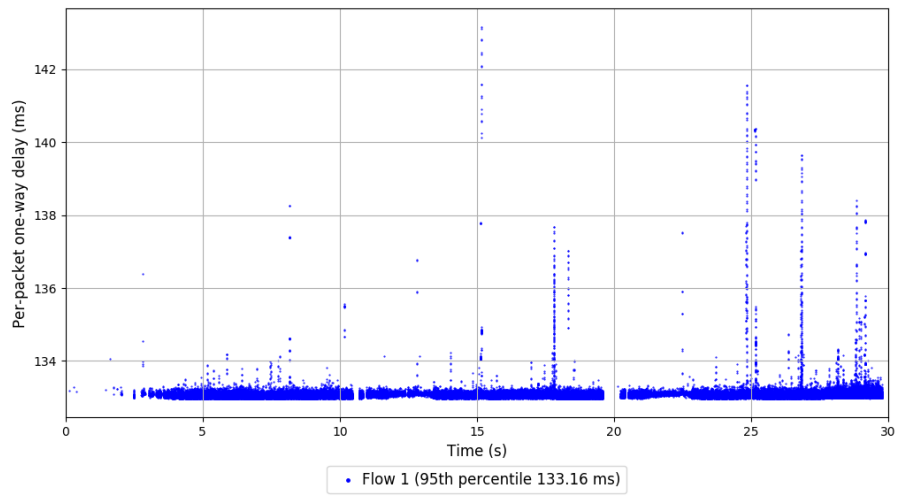
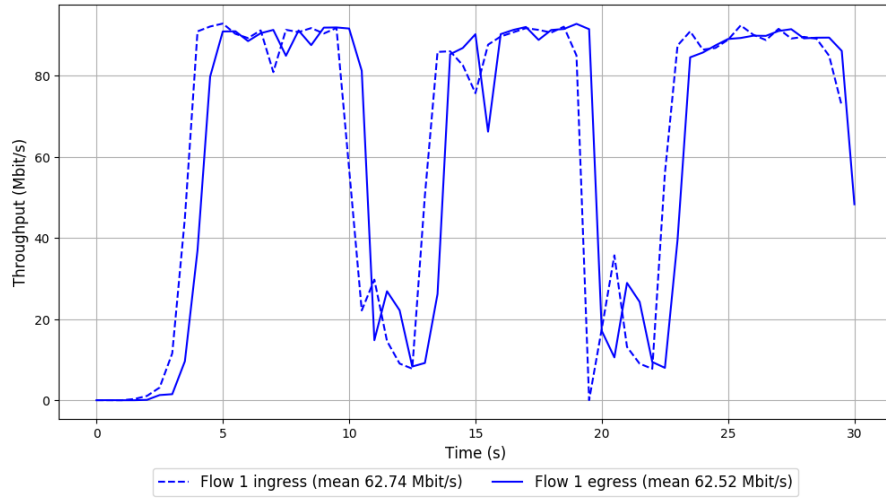
-- Flow 1:

Average throughput: 62.52 Mbit/s

95th percentile per-packet one-way delay: 133.156 ms

Loss rate: 1.24%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-05-30 06:19:05

End at: 2019-05-30 06:19:35

Local clock offset: -0.134 ms

Remote clock offset: 0.341 ms

Below is generated by plot.py at 2019-05-30 08:23:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.49 Mbit/s

95th percentile per-packet one-way delay: 131.941 ms

Loss rate: 1.31%

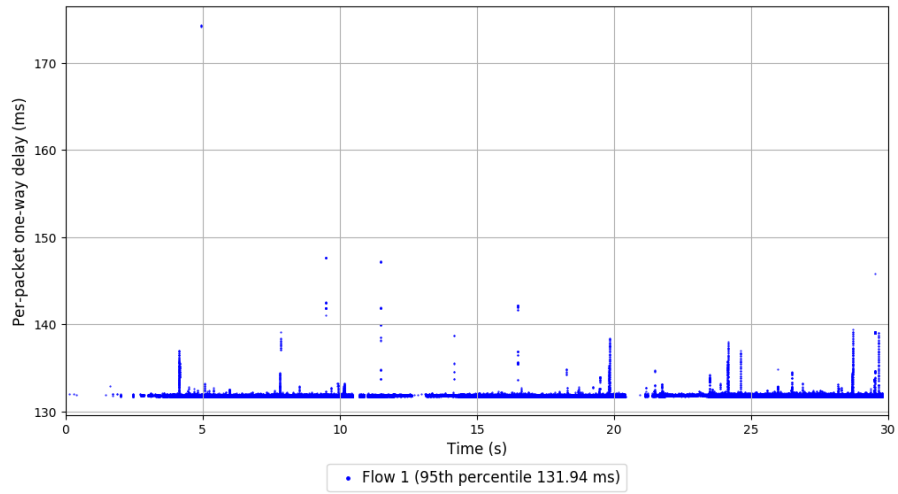
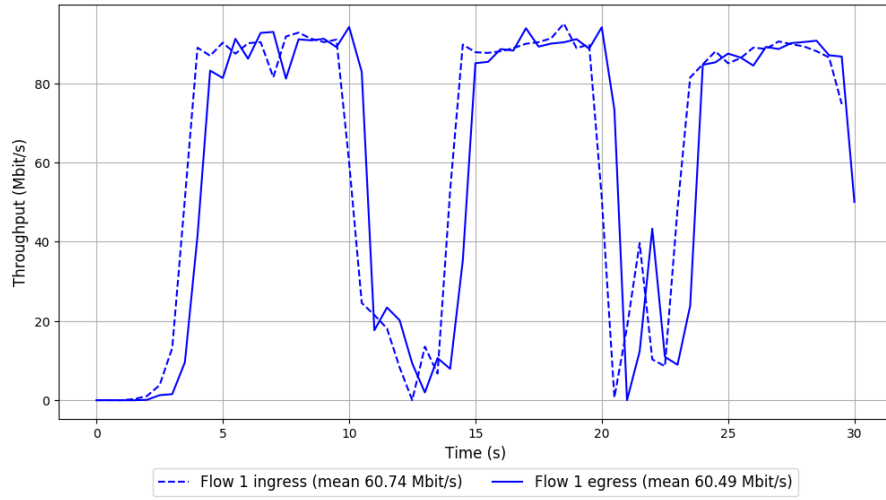
-- Flow 1:

Average throughput: 60.49 Mbit/s

95th percentile per-packet one-way delay: 131.941 ms

Loss rate: 1.31%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-05-30 06:50:46

End at: 2019-05-30 06:51:16

Local clock offset: -0.271 ms

Remote clock offset: 0.011 ms

Below is generated by plot.py at 2019-05-30 08:23:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.31 Mbit/s

95th percentile per-packet one-way delay: 132.195 ms

Loss rate: 1.35%

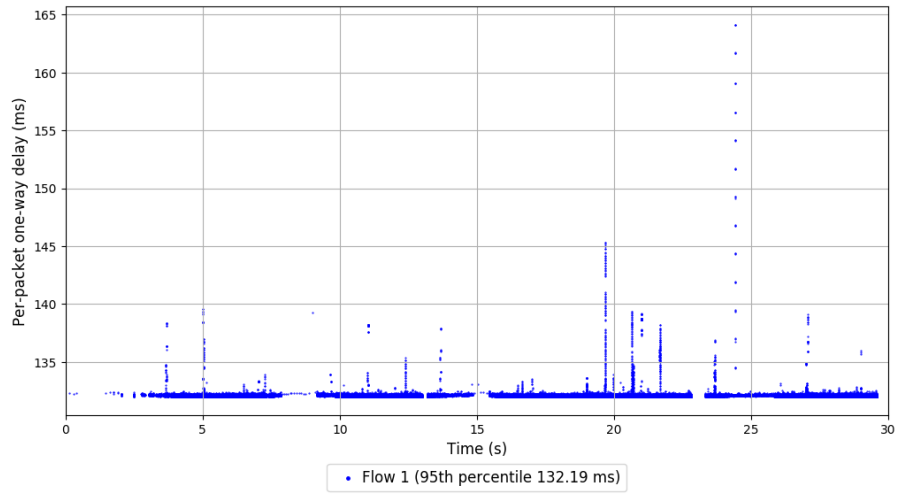
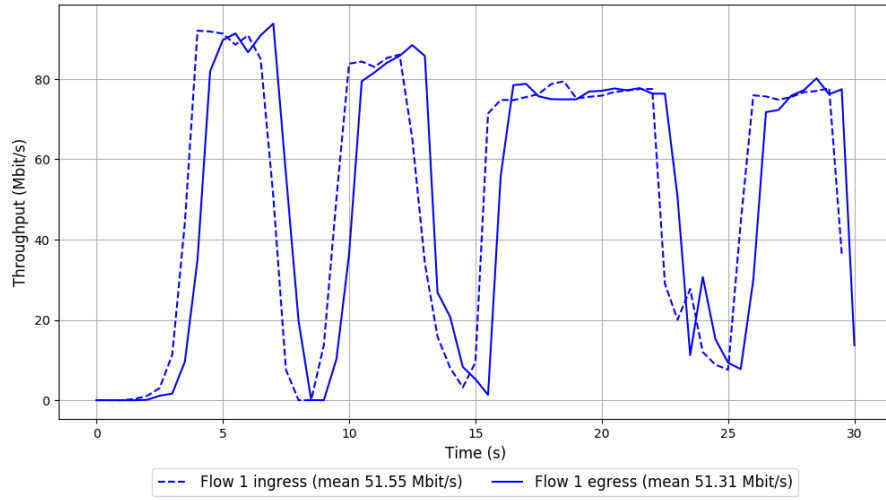
-- Flow 1:

Average throughput: 51.31 Mbit/s

95th percentile per-packet one-way delay: 132.195 ms

Loss rate: 1.35%

Run 5: Report of QUIC Cubic — Data Link

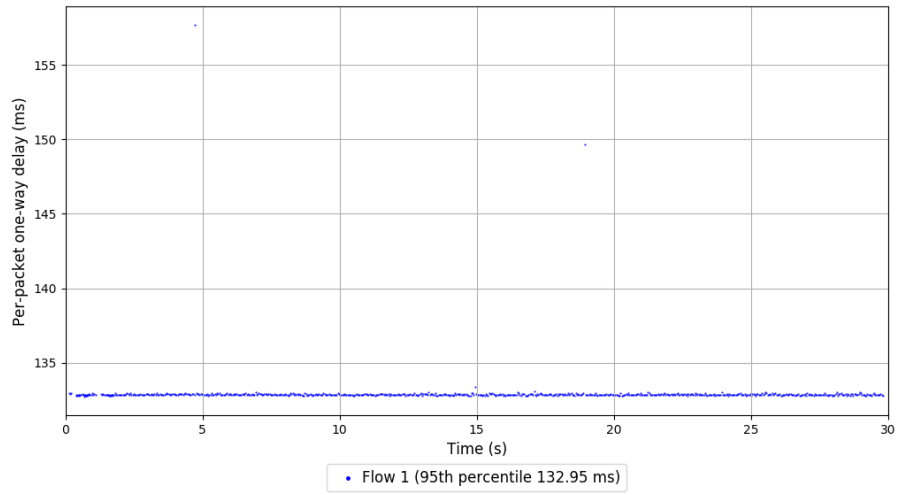
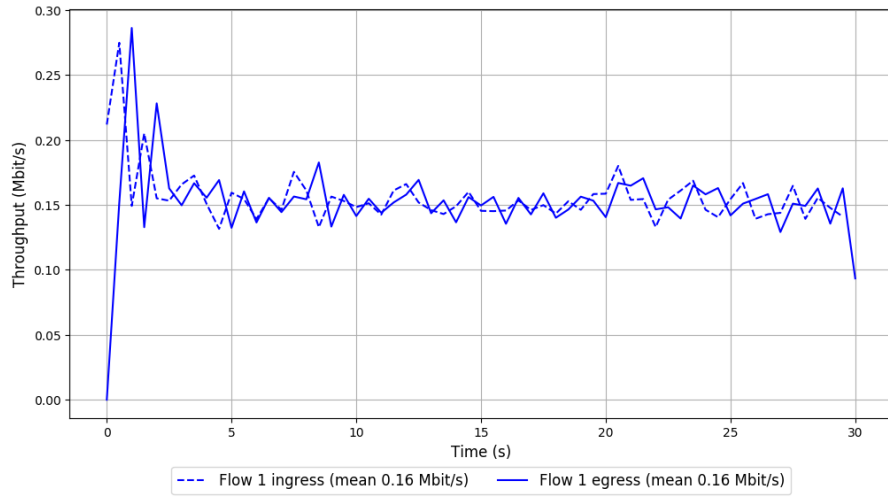


Run 1: Statistics of SCReAM

Start at: 2019-05-30 04:34:35
End at: 2019-05-30 04:35:06
Local clock offset: -0.209 ms
Remote clock offset: -0.155 ms

Below is generated by plot.py at 2019-05-30 08:23:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 132.947 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 132.947 ms
Loss rate: 0.88%

Run 1: Report of SCReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-05-30 05:05:52

End at: 2019-05-30 05:06:22

Local clock offset: 0.239 ms

Remote clock offset: -0.15 ms

Below is generated by plot.py at 2019-05-30 08:23:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 132.580 ms

Loss rate: 0.88%

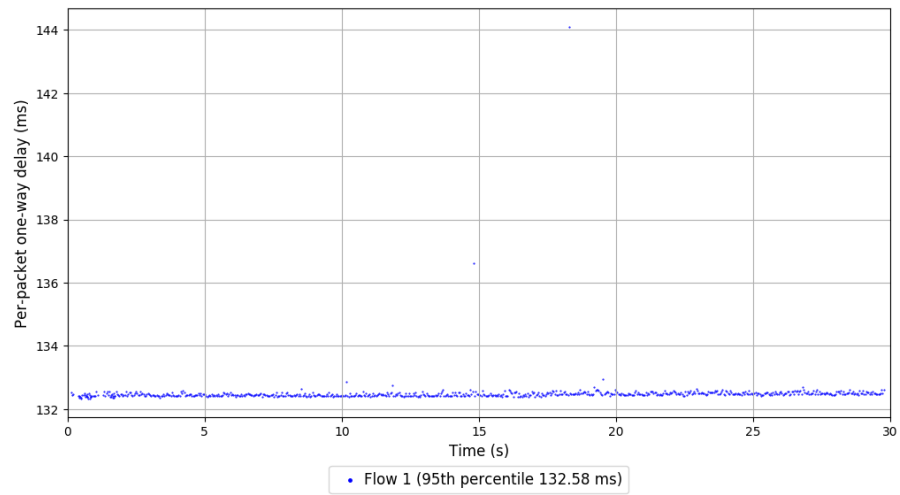
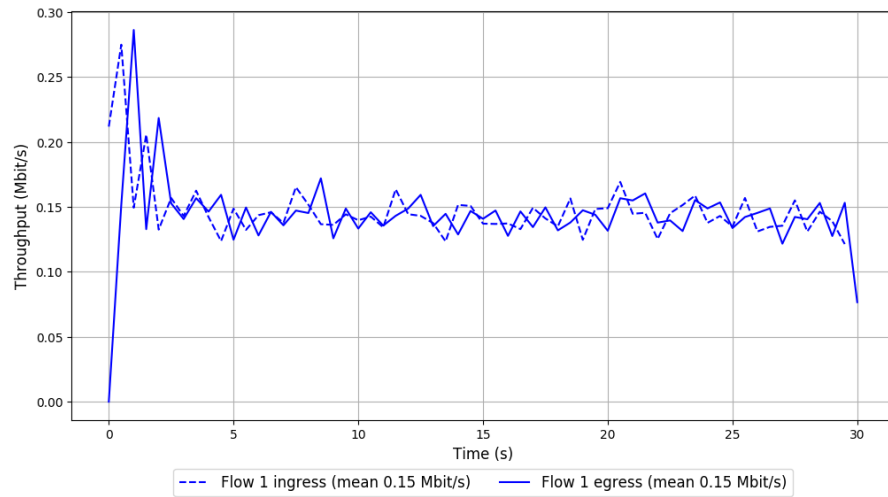
-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 132.580 ms

Loss rate: 0.88%

Run 2: Report of SCReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-05-30 05:36:28

End at: 2019-05-30 05:36:58

Local clock offset: 0.042 ms

Remote clock offset: -0.111 ms

Below is generated by plot.py at 2019-05-30 08:23:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 133.027 ms

Loss rate: 0.88%

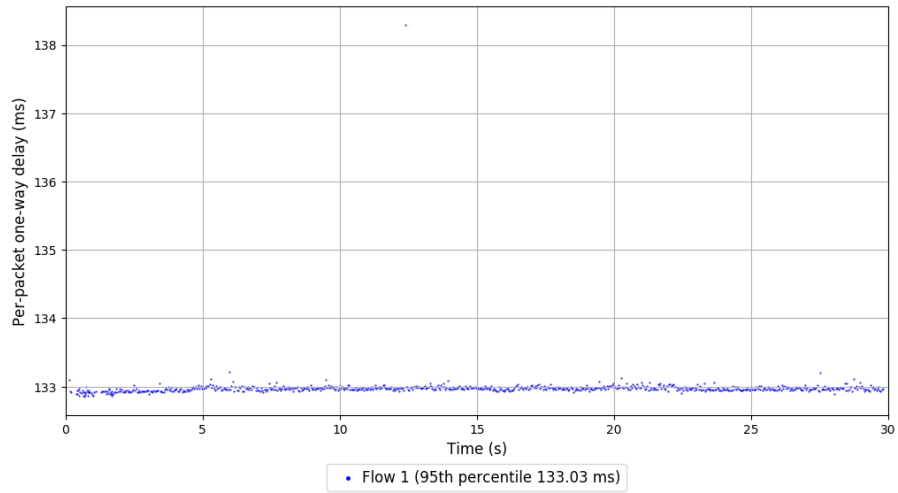
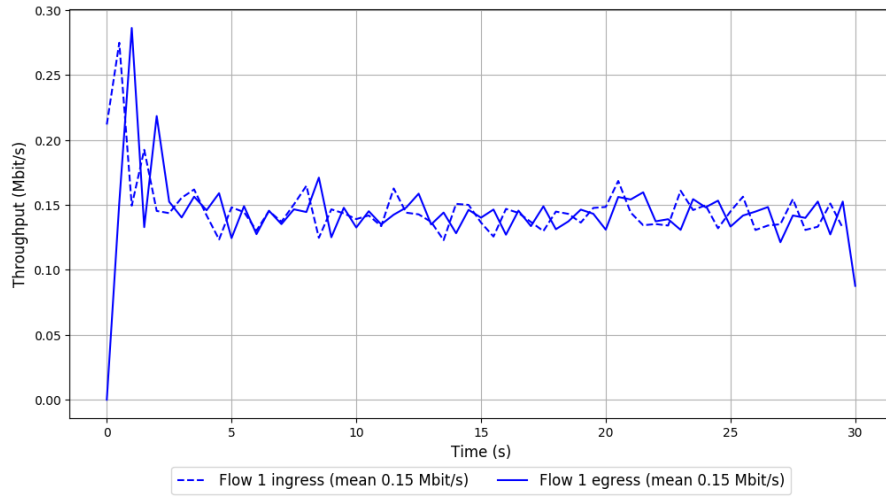
-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 133.027 ms

Loss rate: 0.88%

Run 3: Report of SCReAM — Data Link

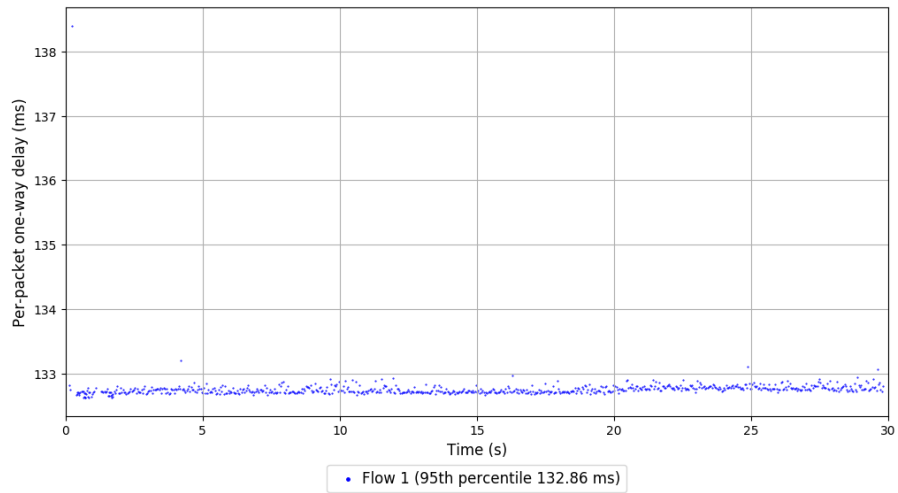
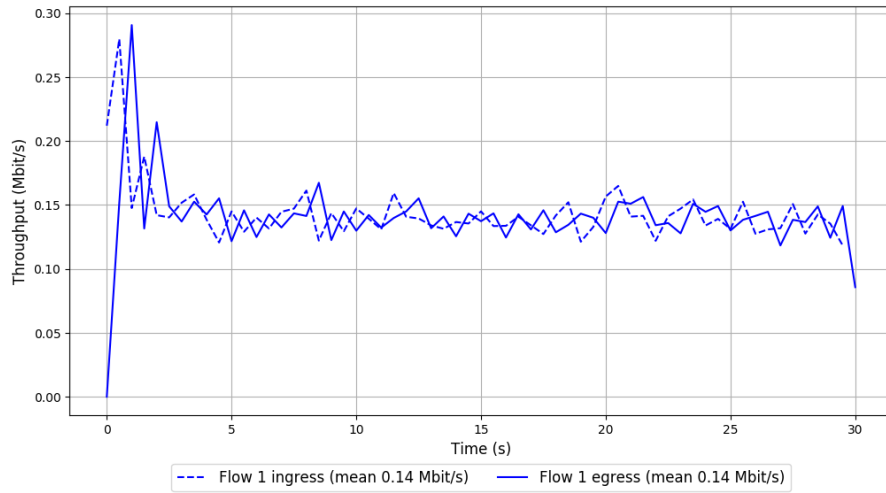


Run 4: Statistics of SCReAM

Start at: 2019-05-30 06:07:54
End at: 2019-05-30 06:08:24
Local clock offset: -0.295 ms
Remote clock offset: -0.066 ms

Below is generated by plot.py at 2019-05-30 08:23:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 132.856 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 132.856 ms
Loss rate: 0.75%

Run 4: Report of SCReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-05-30 06:39:53

End at: 2019-05-30 06:40:23

Local clock offset: 0.089 ms

Remote clock offset: -0.014 ms

Below is generated by plot.py at 2019-05-30 08:23:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 133.312 ms

Loss rate: 0.88%

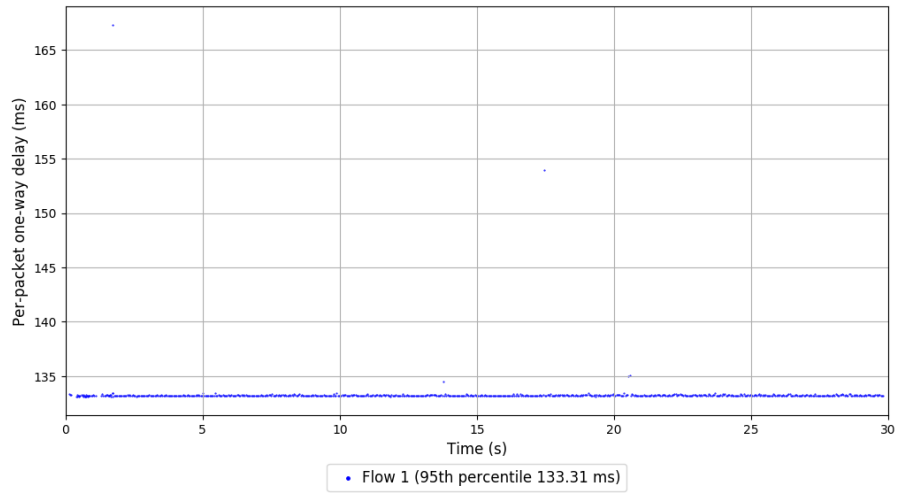
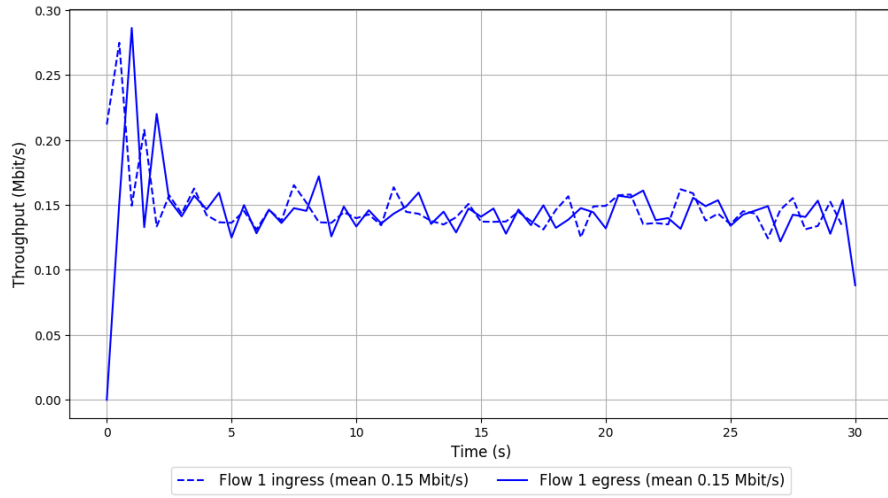
-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 133.312 ms

Loss rate: 0.88%

Run 5: Report of SCReAM — Data Link

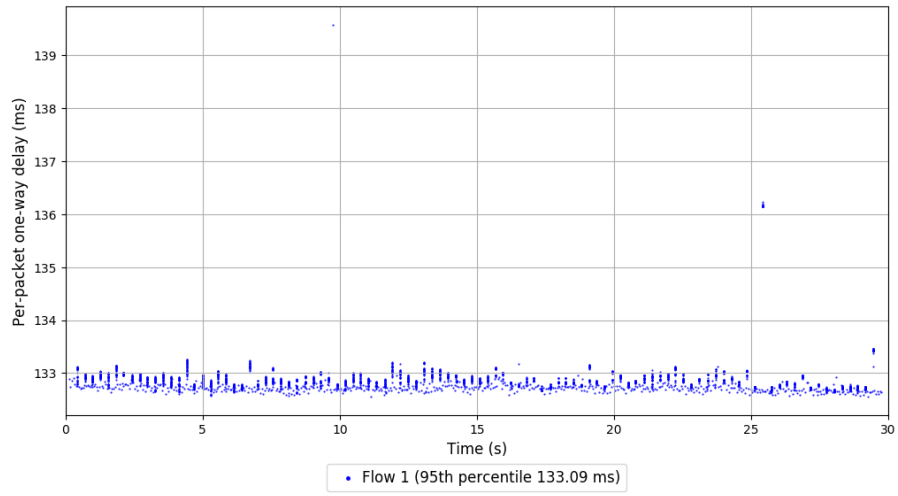
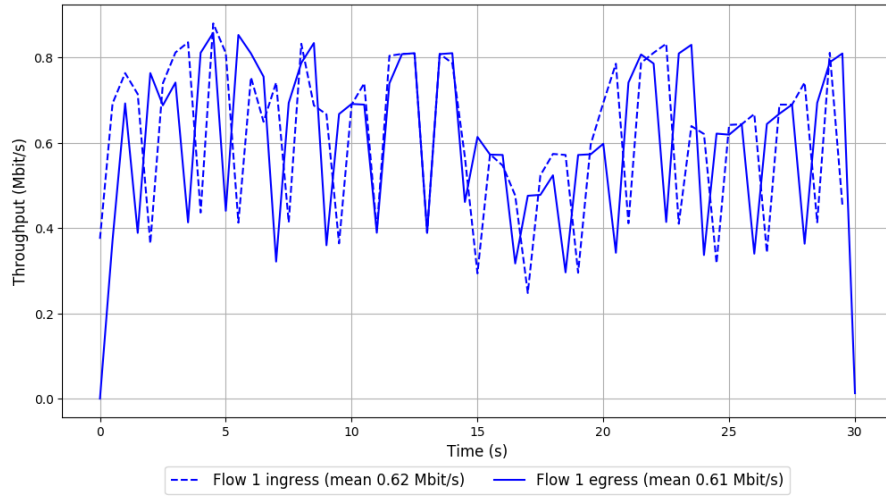


Run 1: Statistics of Sprout

Start at: 2019-05-30 04:30:16
End at: 2019-05-30 04:30:46
Local clock offset: -0.19 ms
Remote clock offset: -0.139 ms

Below is generated by plot.py at 2019-05-30 08:23:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 133.089 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 133.089 ms
Loss rate: 1.21%

Run 1: Report of Sprout — Data Link

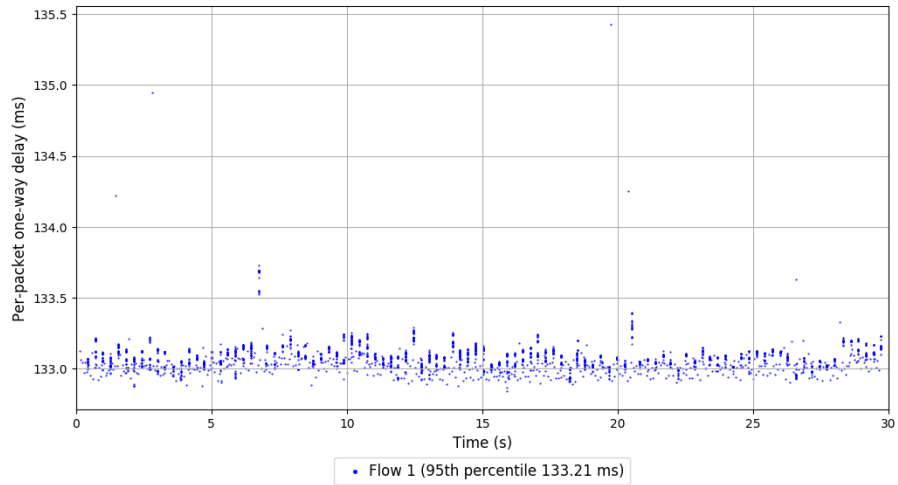
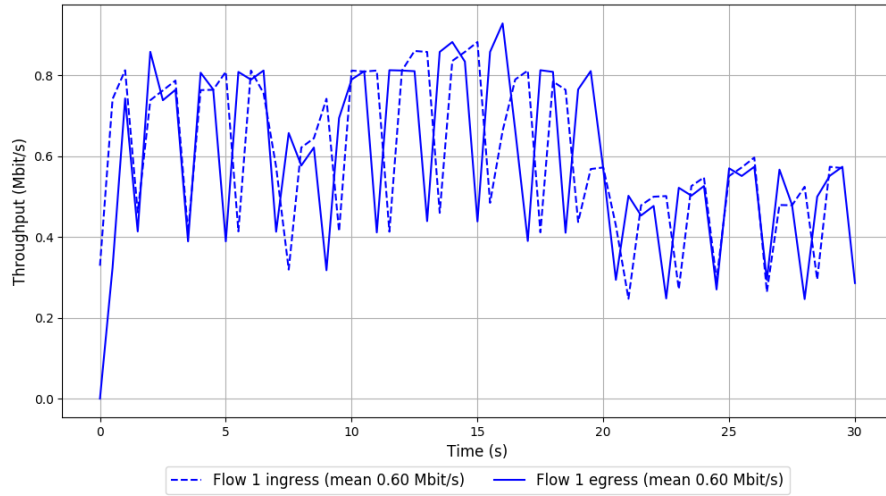


Run 2: Statistics of Sprout

Start at: 2019-05-30 05:01:35
End at: 2019-05-30 05:02:05
Local clock offset: 0.067 ms
Remote clock offset: -0.119 ms

Below is generated by plot.py at 2019-05-30 08:23:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 133.207 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 133.207 ms
Loss rate: 0.80%

Run 2: Report of Sprout — Data Link

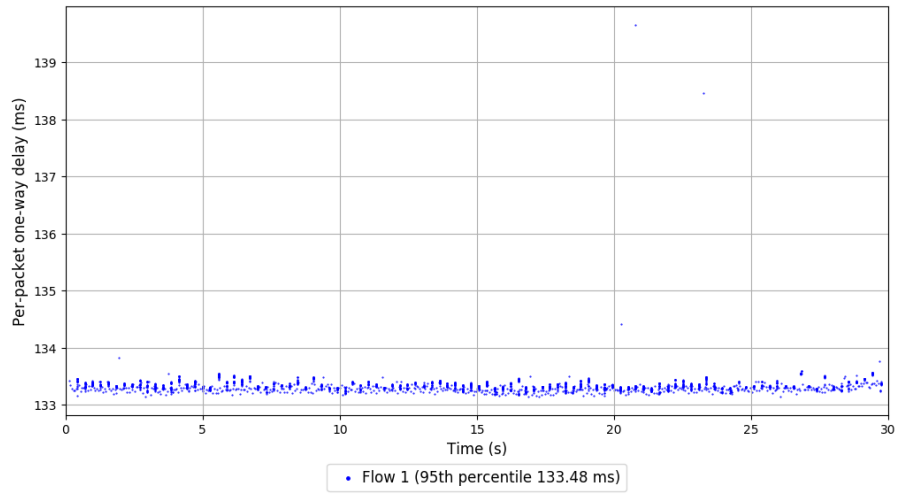
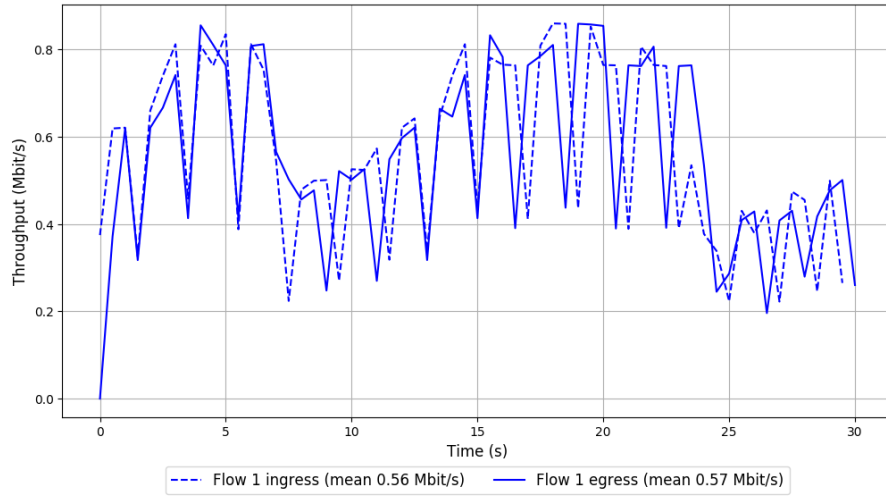


Run 3: Statistics of Sprout

Start at: 2019-05-30 05:32:08
End at: 2019-05-30 05:32:38
Local clock offset: -0.015 ms
Remote clock offset: -0.155 ms

Below is generated by plot.py at 2019-05-30 08:23:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 133.478 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 133.478 ms
Loss rate: 0.02%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-05-30 06:03:38

End at: 2019-05-30 06:04:08

Local clock offset: 0.102 ms

Remote clock offset: -0.078 ms

Below is generated by plot.py at 2019-05-30 08:23:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 133.540 ms

Loss rate: 0.96%

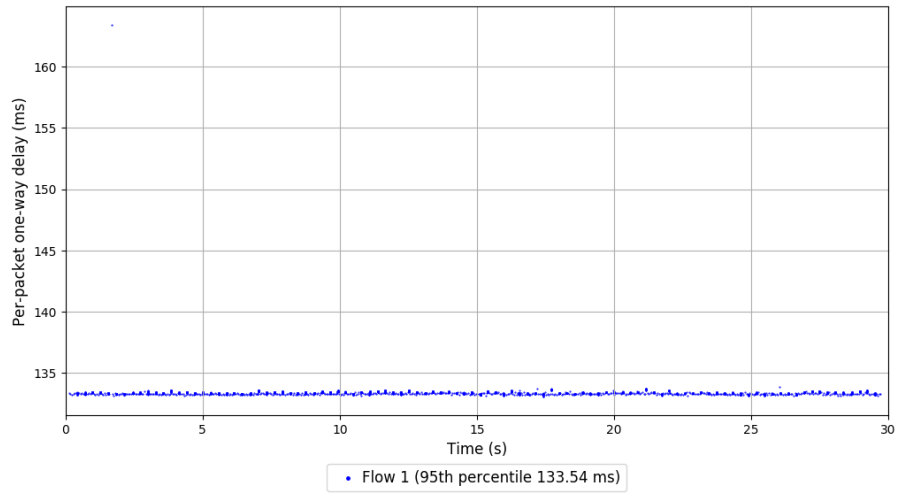
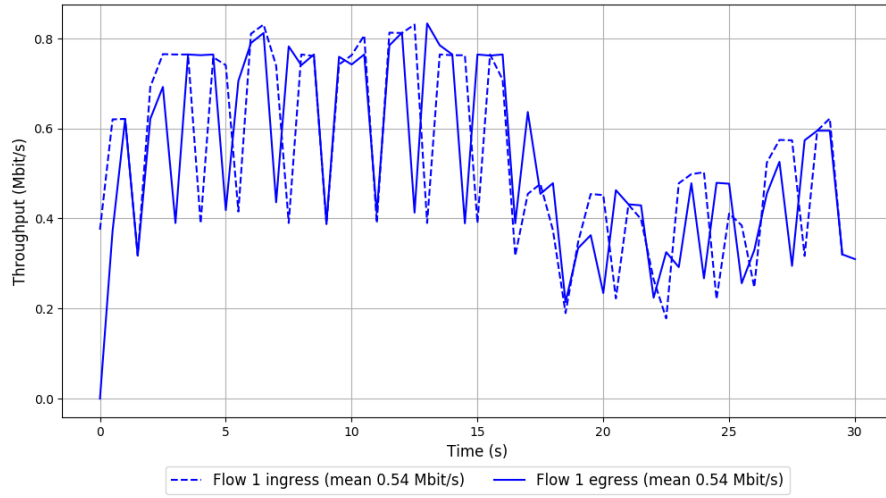
-- Flow 1:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 133.540 ms

Loss rate: 0.96%

Run 4: Report of Sprout — Data Link

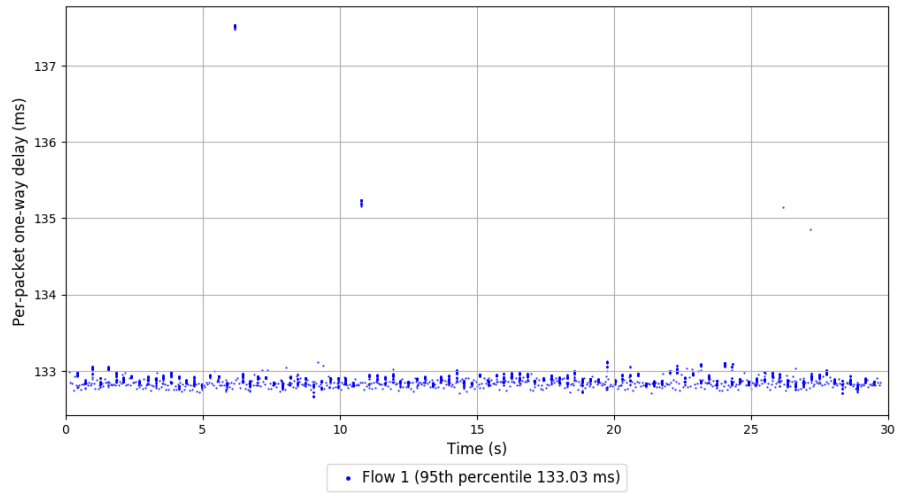
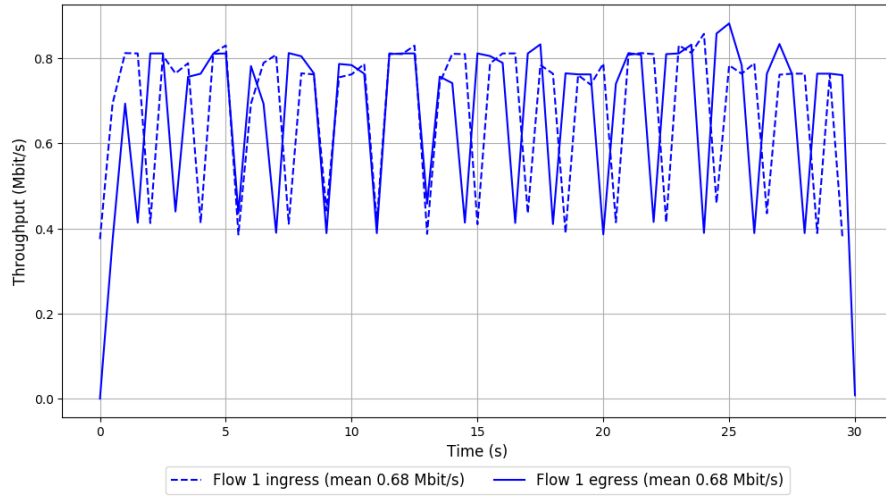


Run 5: Statistics of Sprout

Start at: 2019-05-30 06:35:33
End at: 2019-05-30 06:36:03
Local clock offset: -0.087 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2019-05-30 08:23:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.68 Mbit/s
95th percentile per-packet one-way delay: 133.025 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 0.68 Mbit/s
95th percentile per-packet one-way delay: 133.025 ms
Loss rate: 0.93%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-05-30 04:17:44

End at: 2019-05-30 04:18:14

Local clock offset: -0.304 ms

Remote clock offset: -0.093 ms

Below is generated by plot.py at 2019-05-30 08:23:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.78 Mbit/s

95th percentile per-packet one-way delay: 133.262 ms

Loss rate: 0.89%

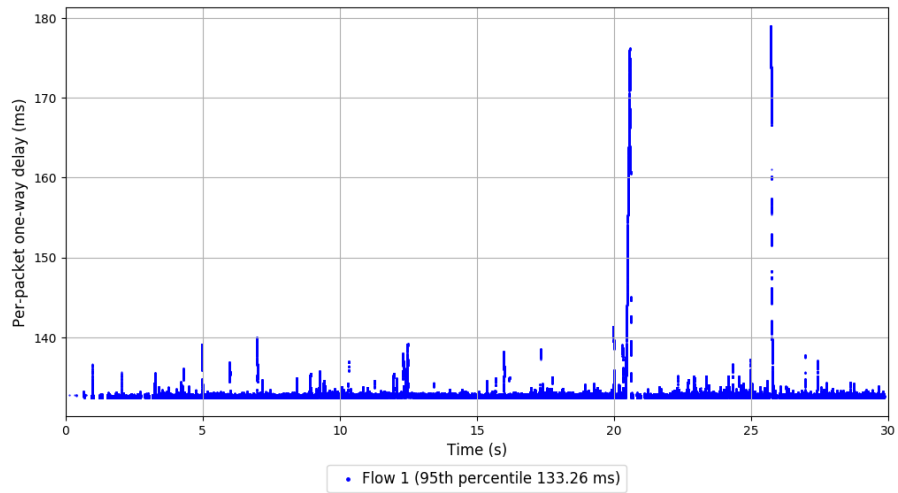
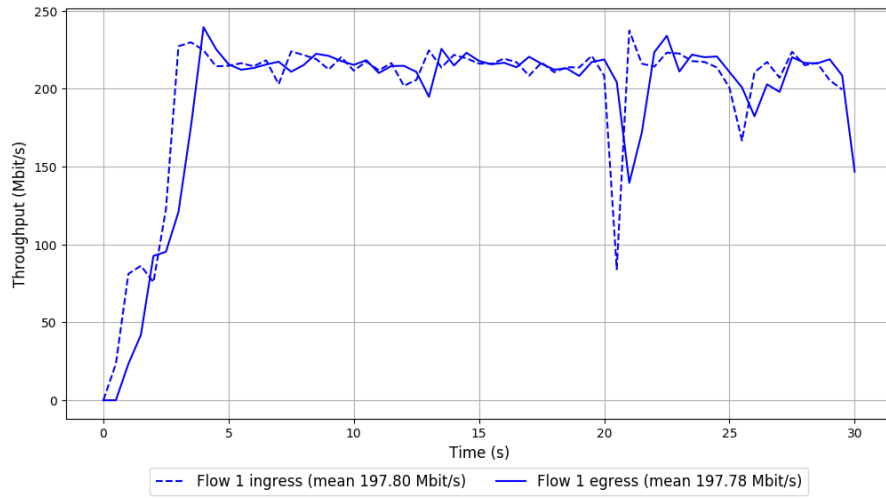
-- Flow 1:

Average throughput: 197.78 Mbit/s

95th percentile per-packet one-way delay: 133.262 ms

Loss rate: 0.89%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-05-30 04:49:33

End at: 2019-05-30 04:50:03

Local clock offset: 0.139 ms

Remote clock offset: -0.155 ms

Below is generated by plot.py at 2019-05-30 08:23:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.10 Mbit/s

95th percentile per-packet one-way delay: 132.947 ms

Loss rate: 0.91%

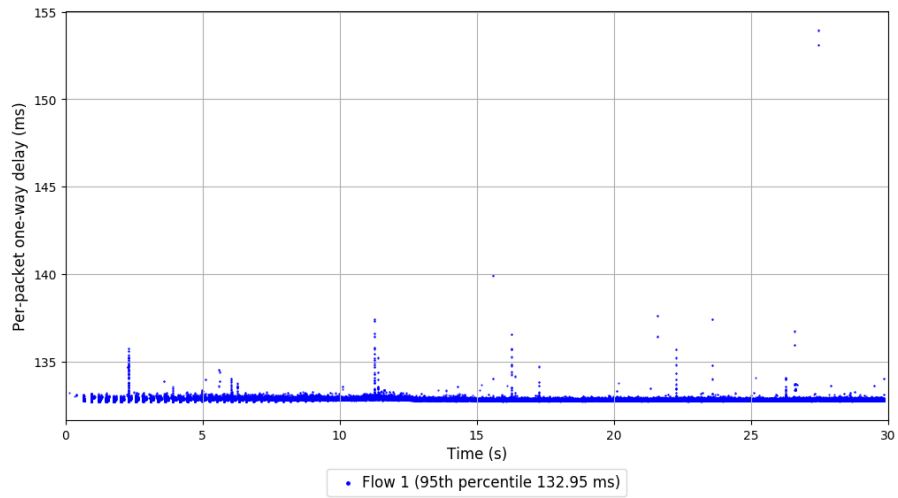
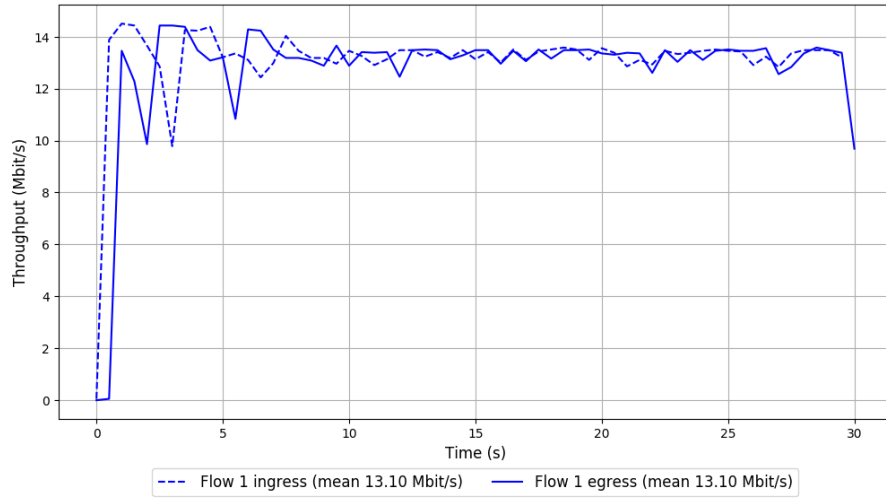
-- Flow 1:

Average throughput: 13.10 Mbit/s

95th percentile per-packet one-way delay: 132.947 ms

Loss rate: 0.91%

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

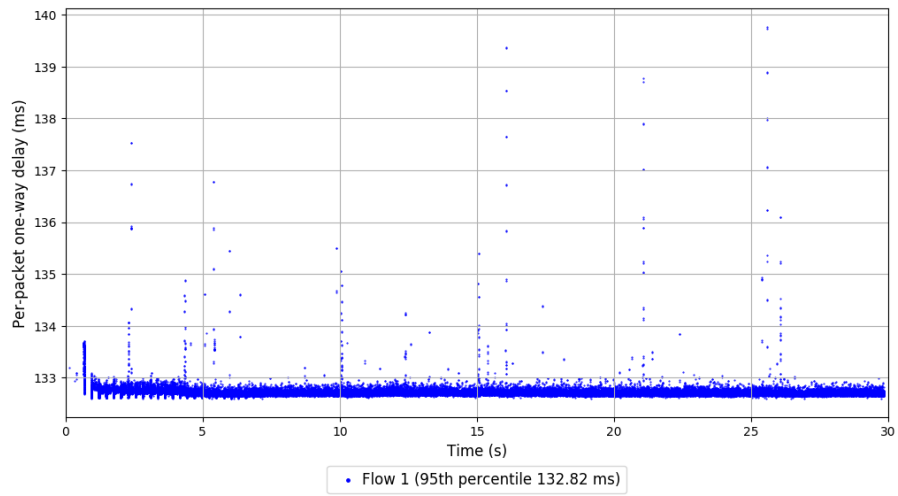
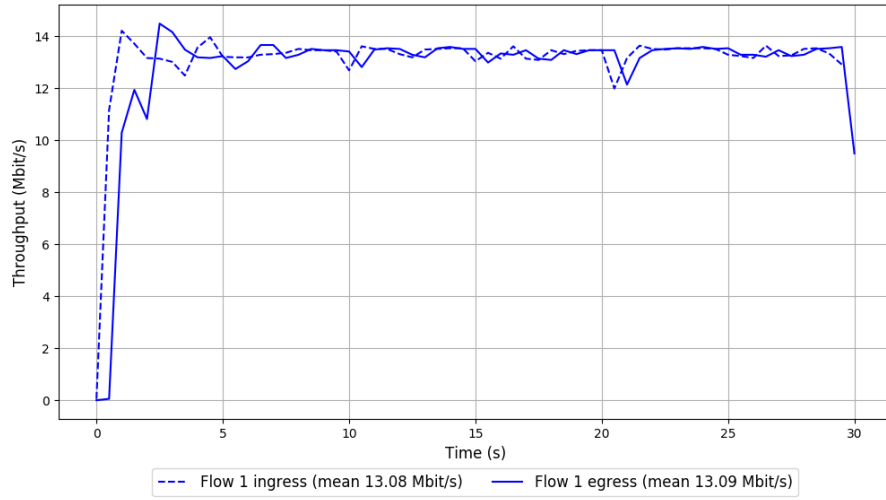


Run 3: Statistics of TaoVA-100x

Start at: 2019-05-30 05:20:49
End at: 2019-05-30 05:21:19
Local clock offset: -0.182 ms
Remote clock offset: -0.085 ms

Below is generated by plot.py at 2019-05-30 08:23:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.09 Mbit/s
95th percentile per-packet one-way delay: 132.817 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 13.09 Mbit/s
95th percentile per-packet one-way delay: 132.817 ms
Loss rate: 0.87%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-05-30 05:51:40

End at: 2019-05-30 05:52:10

Local clock offset: 0.098 ms

Remote clock offset: -0.082 ms

Below is generated by plot.py at 2019-05-30 08:23:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.03 Mbit/s

95th percentile per-packet one-way delay: 133.269 ms

Loss rate: 0.90%

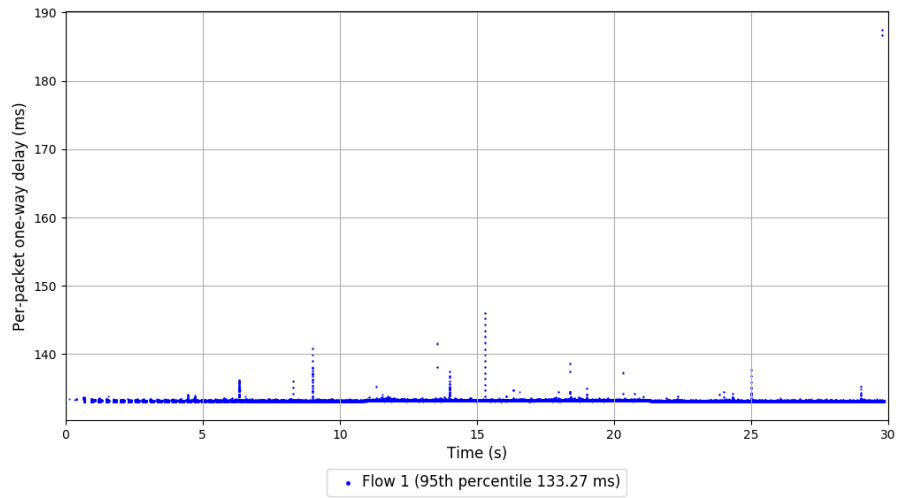
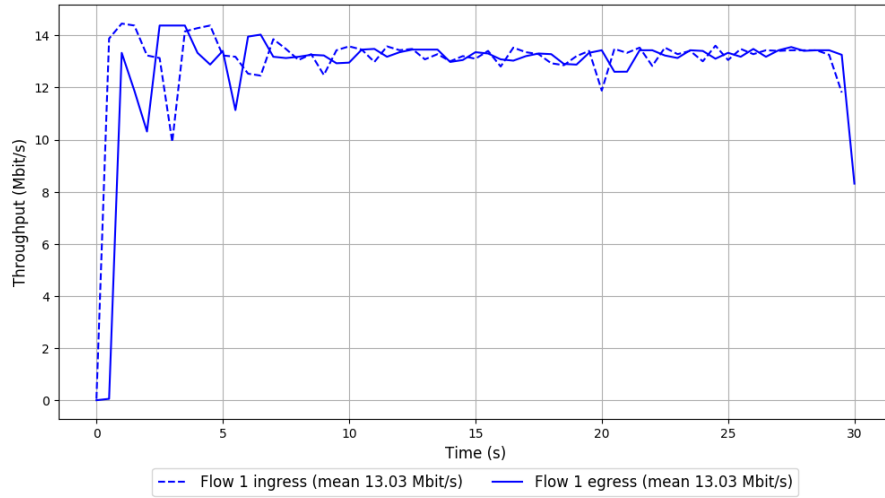
-- Flow 1:

Average throughput: 13.03 Mbit/s

95th percentile per-packet one-way delay: 133.269 ms

Loss rate: 0.90%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-05-30 06:23:12

End at: 2019-05-30 06:23:43

Local clock offset: 0.102 ms

Remote clock offset: -0.015 ms

Below is generated by plot.py at 2019-05-30 08:23:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.44 Mbit/s

95th percentile per-packet one-way delay: 133.086 ms

Loss rate: 1.01%

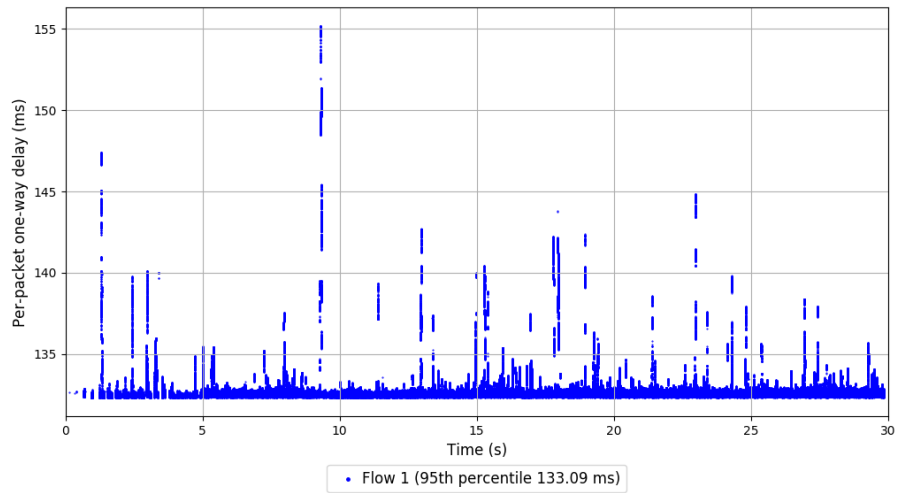
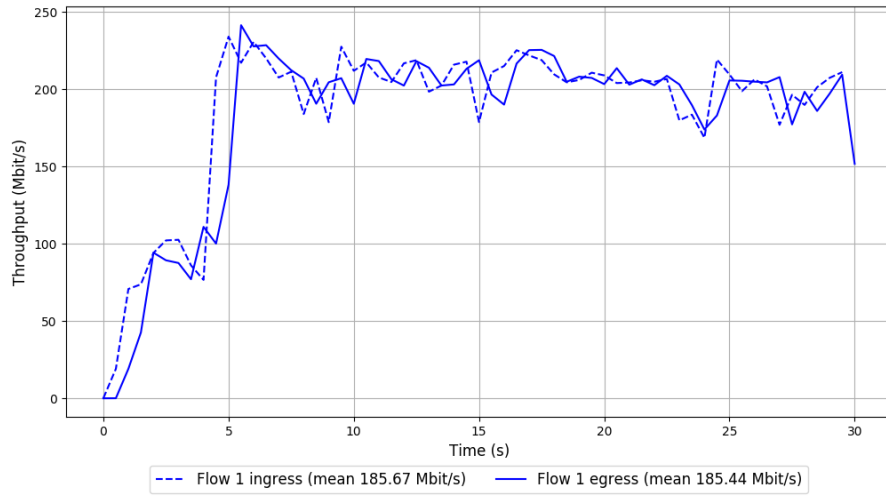
-- Flow 1:

Average throughput: 185.44 Mbit/s

95th percentile per-packet one-way delay: 133.086 ms

Loss rate: 1.01%

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

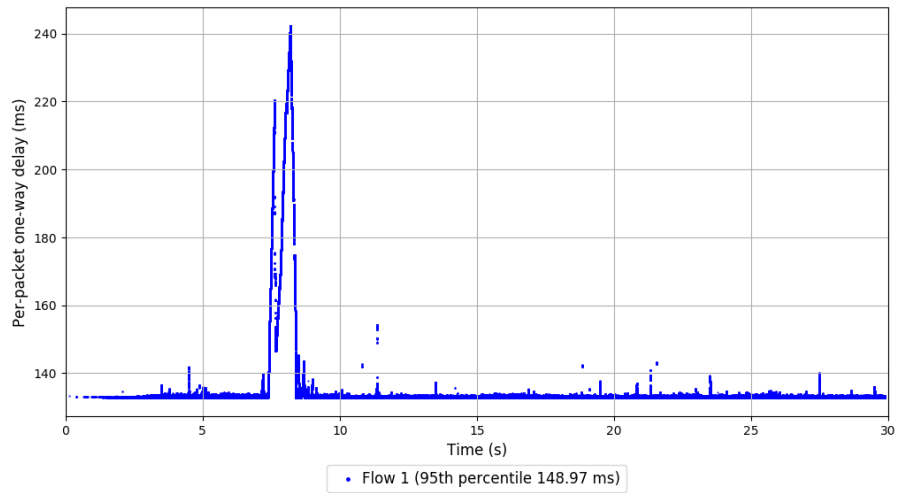
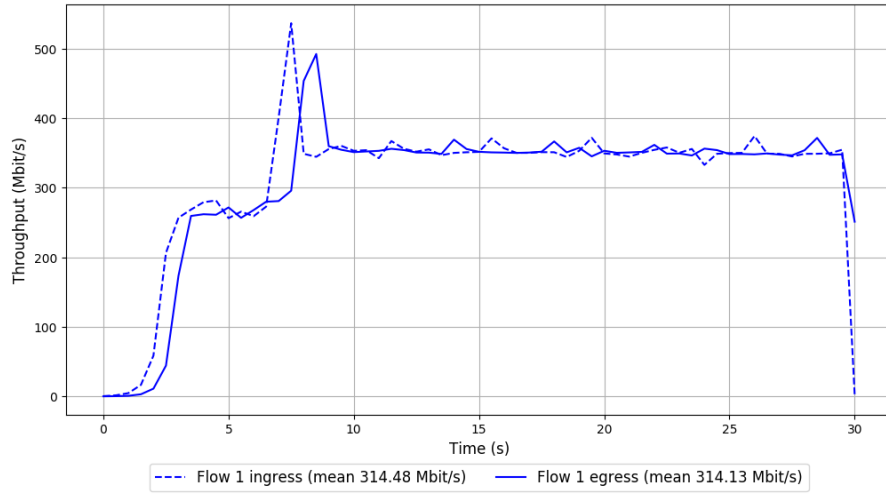


Run 1: Statistics of TCP Vegas

Start at: 2019-05-30 04:35:46
End at: 2019-05-30 04:36:16
Local clock offset: 0.067 ms
Remote clock offset: -0.166 ms

Below is generated by plot.py at 2019-05-30 08:23:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 314.13 Mbit/s
95th percentile per-packet one-way delay: 148.971 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 314.13 Mbit/s
95th percentile per-packet one-way delay: 148.971 ms
Loss rate: 1.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-05-30 05:07:03

End at: 2019-05-30 05:07:33

Local clock offset: -0.0 ms

Remote clock offset: -0.141 ms

Below is generated by plot.py at 2019-05-30 08:27:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 480.31 Mbit/s

95th percentile per-packet one-way delay: 149.096 ms

Loss rate: 1.01%

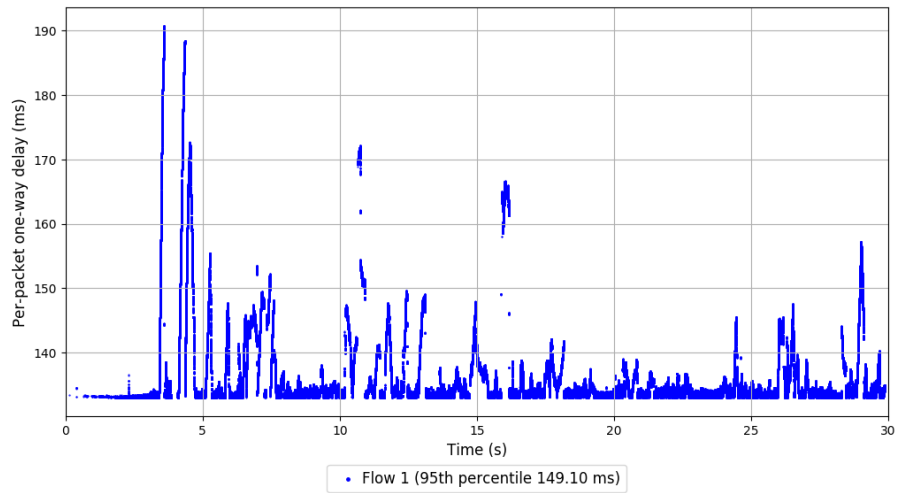
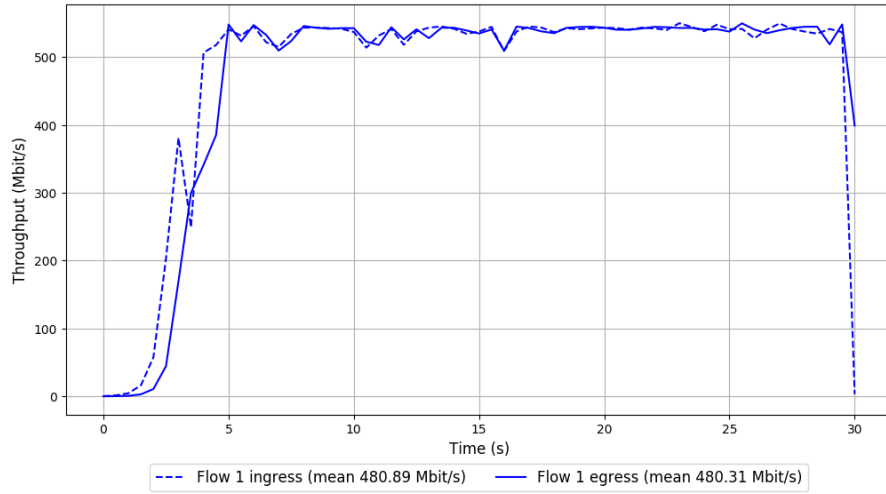
-- Flow 1:

Average throughput: 480.31 Mbit/s

95th percentile per-packet one-way delay: 149.096 ms

Loss rate: 1.01%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-05-30 05:37:38
End at: 2019-05-30 05:38:08
Local clock offset: 0.437 ms
Remote clock offset: -0.095 ms

Below is generated by plot.py at 2019-05-30 08:27:25

Datalink statistics

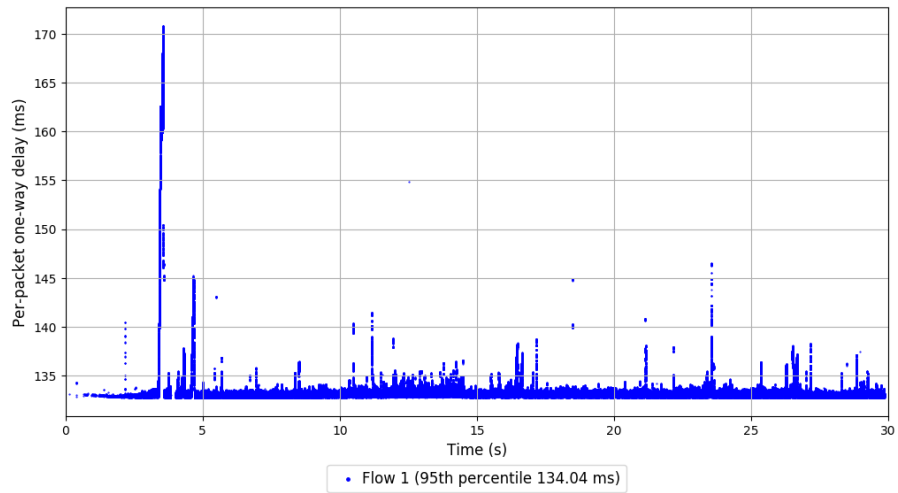
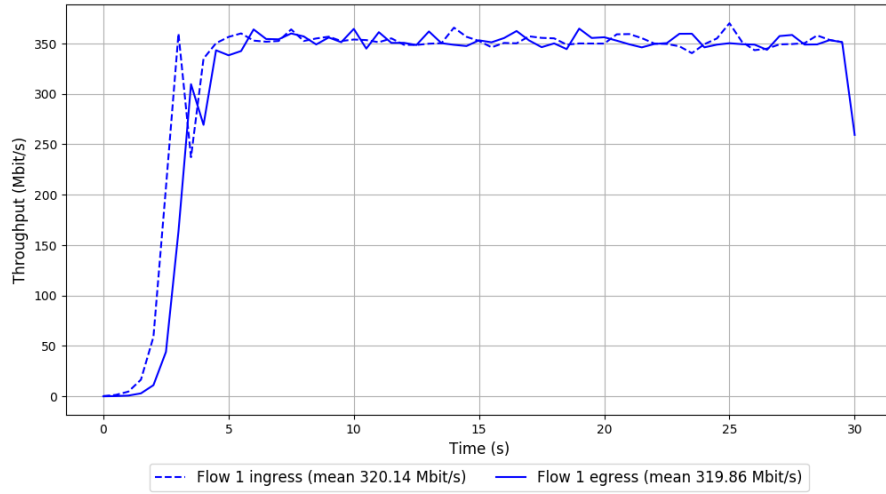
-- Total of 1 flow:

Average throughput: 319.86 Mbit/s
95th percentile per-packet one-way delay: 134.043 ms
Loss rate: 0.97%

-- Flow 1:

Average throughput: 319.86 Mbit/s
95th percentile per-packet one-way delay: 134.043 ms
Loss rate: 0.97%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-05-30 06:09:05

End at: 2019-05-30 06:09:35

Local clock offset: 0.44 ms

Remote clock offset: -0.053 ms

Below is generated by plot.py at 2019-05-30 08:29:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 410.62 Mbit/s

95th percentile per-packet one-way delay: 138.496 ms

Loss rate: 1.05%

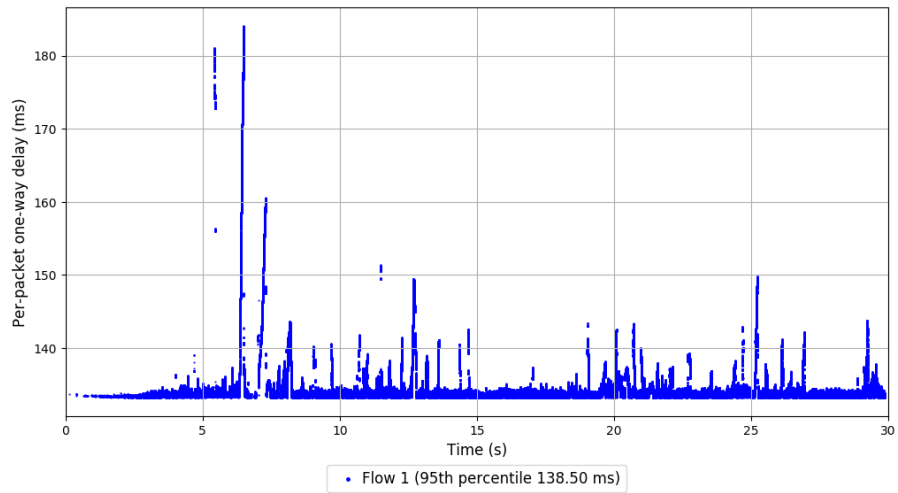
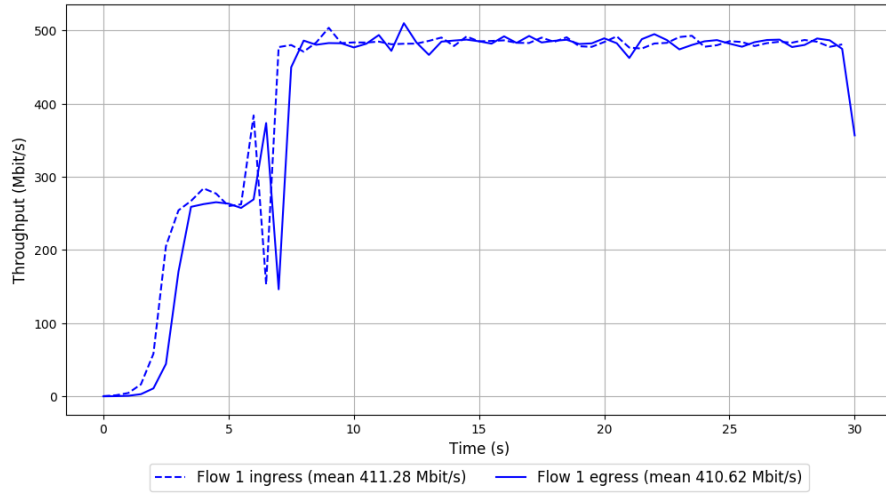
-- Flow 1:

Average throughput: 410.62 Mbit/s

95th percentile per-packet one-way delay: 138.496 ms

Loss rate: 1.05%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-05-30 06:41:03

End at: 2019-05-30 06:41:33

Local clock offset: -0.355 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2019-05-30 08:29:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 329.51 Mbit/s

95th percentile per-packet one-way delay: 140.001 ms

Loss rate: 1.08%

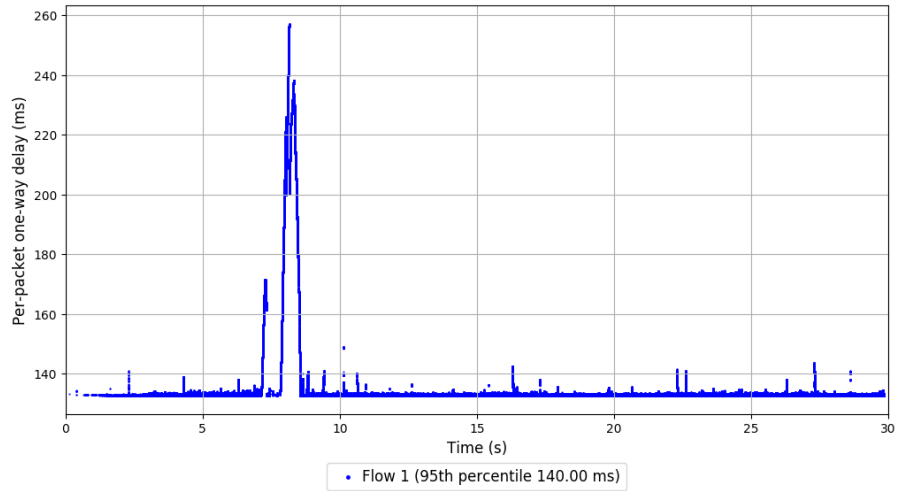
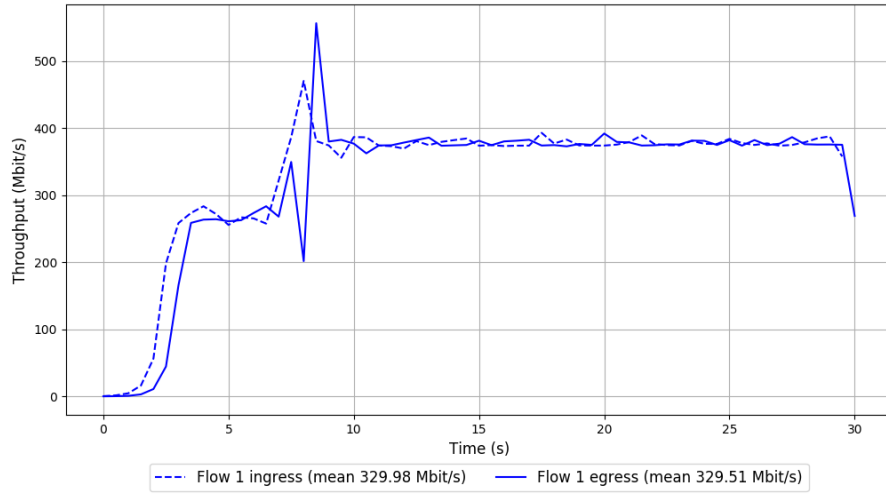
-- Flow 1:

Average throughput: 329.51 Mbit/s

95th percentile per-packet one-way delay: 140.001 ms

Loss rate: 1.08%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-05-30 04:27:02

End at: 2019-05-30 04:27:32

Local clock offset: 0.454 ms

Remote clock offset: -0.143 ms

Below is generated by plot.py at 2019-05-30 08:29:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 162.46 Mbit/s

95th percentile per-packet one-way delay: 249.093 ms

Loss rate: 2.75%

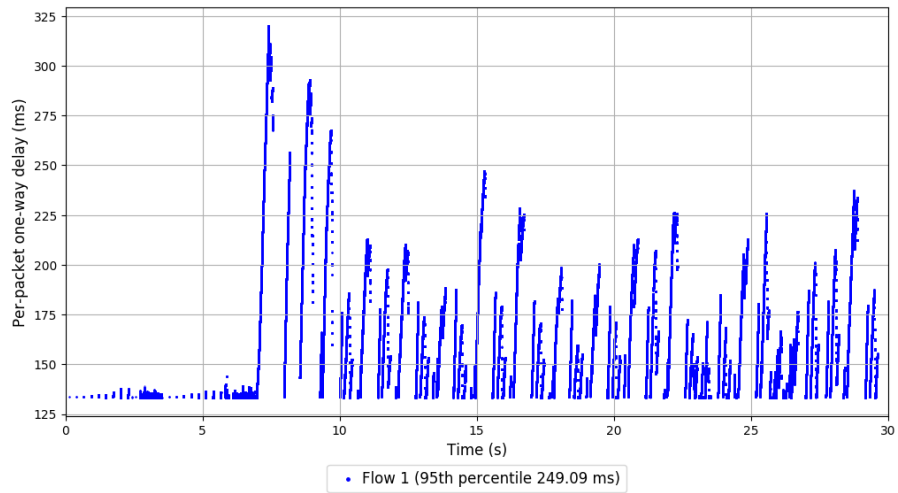
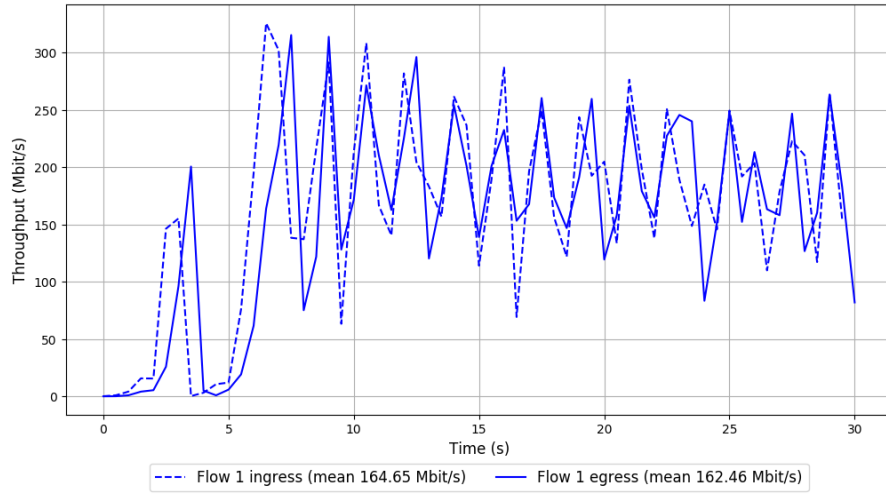
-- Flow 1:

Average throughput: 162.46 Mbit/s

95th percentile per-packet one-way delay: 249.093 ms

Loss rate: 2.75%

Run 1: Report of Verus — Data Link

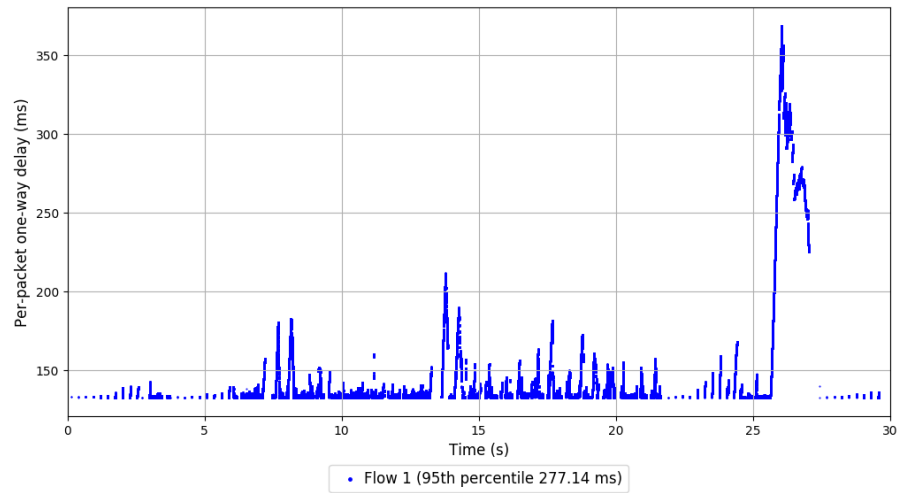
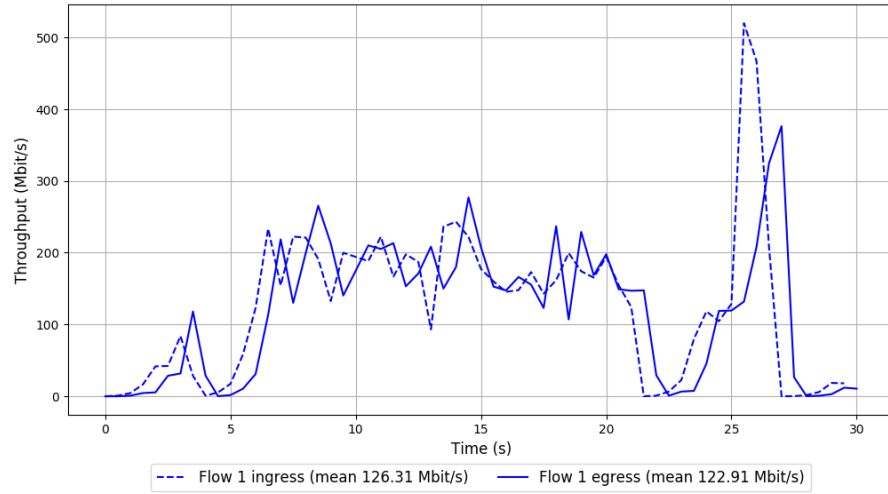


Run 2: Statistics of Verus

Start at: 2019-05-30 04:58:26
End at: 2019-05-30 04:58:56
Local clock offset: -0.125 ms
Remote clock offset: -0.227 ms

Below is generated by plot.py at 2019-05-30 08:29:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 122.91 Mbit/s
95th percentile per-packet one-way delay: 277.145 ms
Loss rate: 4.07%
-- Flow 1:
Average throughput: 122.91 Mbit/s
95th percentile per-packet one-way delay: 277.145 ms
Loss rate: 4.07%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-05-30 05:29:28

End at: 2019-05-30 05:29:58

Local clock offset: -0.27 ms

Remote clock offset: -0.118 ms

Below is generated by plot.py at 2019-05-30 08:29:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.41 Mbit/s

95th percentile per-packet one-way delay: 249.078 ms

Loss rate: 2.97%

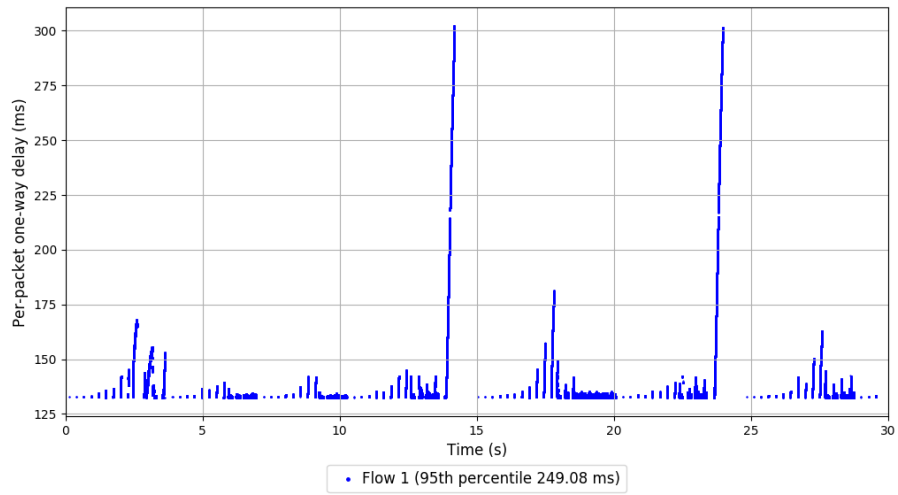
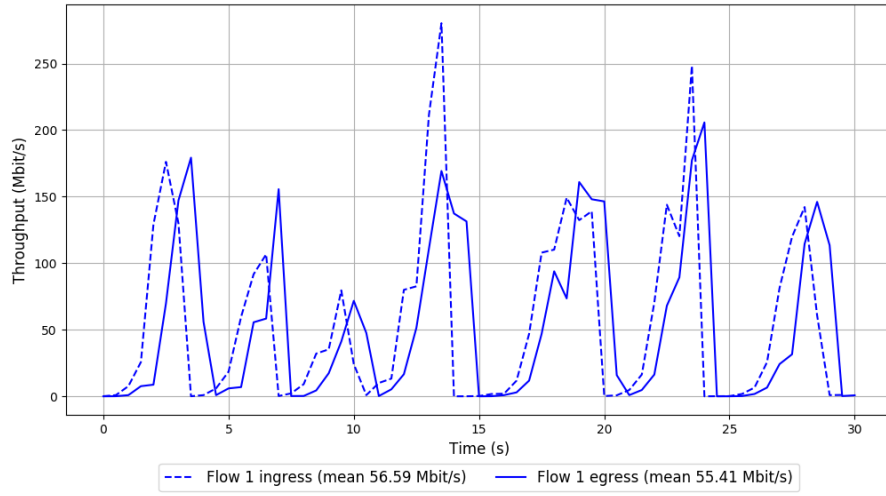
-- Flow 1:

Average throughput: 55.41 Mbit/s

95th percentile per-packet one-way delay: 249.078 ms

Loss rate: 2.97%

Run 3: Report of Verus — Data Link

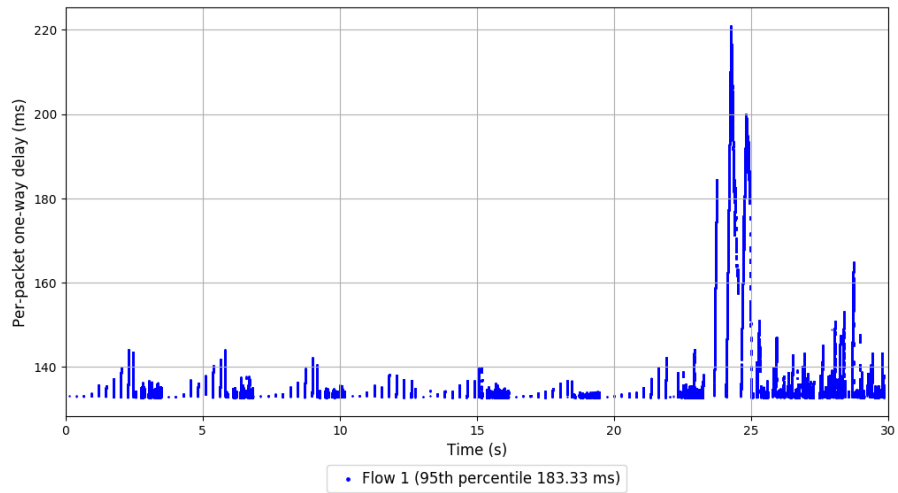
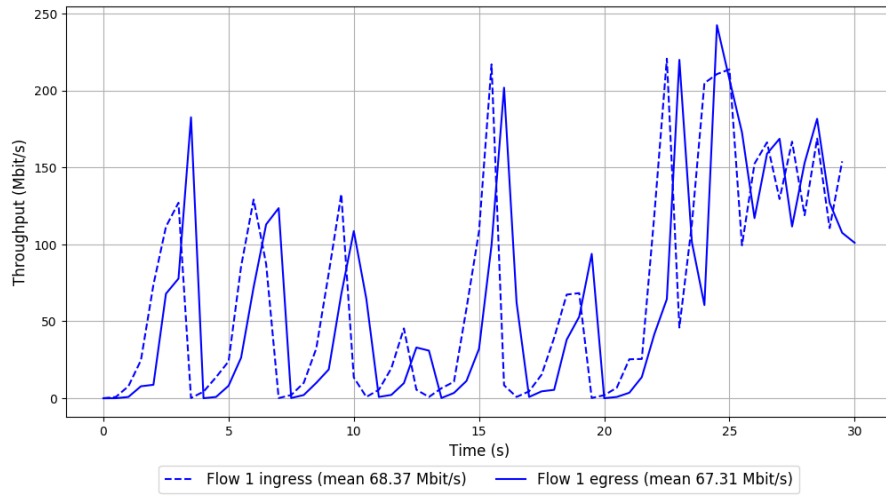


Run 4: Statistics of Verus

Start at: 2019-05-30 06:00:34
End at: 2019-05-30 06:01:04
Local clock offset: -0.066 ms
Remote clock offset: -0.065 ms

Below is generated by plot.py at 2019-05-30 08:29:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 67.31 Mbit/s
95th percentile per-packet one-way delay: 183.327 ms
Loss rate: 2.43%
-- Flow 1:
Average throughput: 67.31 Mbit/s
95th percentile per-packet one-way delay: 183.327 ms
Loss rate: 2.43%

Run 4: Report of Verus — Data Link

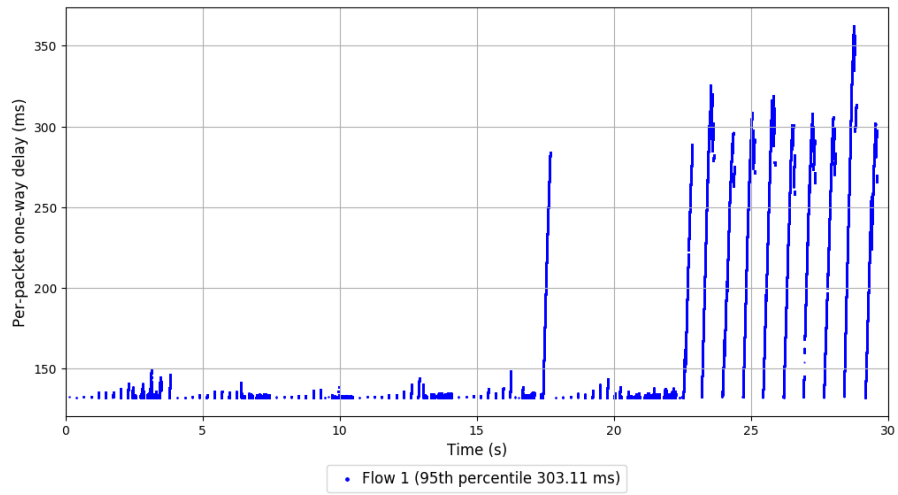
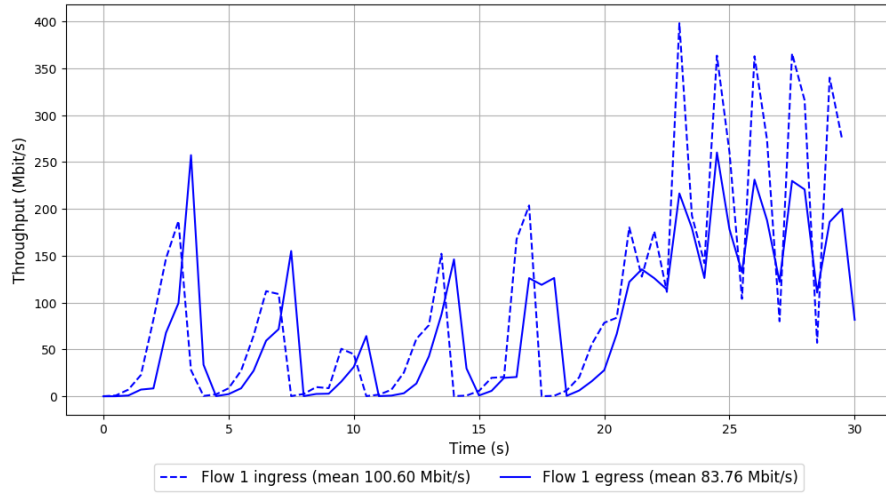


Run 5: Statistics of Verus

Start at: 2019-05-30 06:32:28
End at: 2019-05-30 06:32:58
Local clock offset: -0.171 ms
Remote clock offset: -0.013 ms

```
# Below is generated by plot.py at 2019-05-30 08:29:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.76 Mbit/s
95th percentile per-packet one-way delay: 303.105 ms
Loss rate: 18.13%
-- Flow 1:
Average throughput: 83.76 Mbit/s
95th percentile per-packet one-way delay: 303.105 ms
Loss rate: 18.13%
```

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-05-30 04:19:18

End at: 2019-05-30 04:19:48

Local clock offset: -0.278 ms

Remote clock offset: -0.126 ms

Below is generated by plot.py at 2019-05-30 08:30:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 324.63 Mbit/s

95th percentile per-packet one-way delay: 140.274 ms

Loss rate: 0.94%

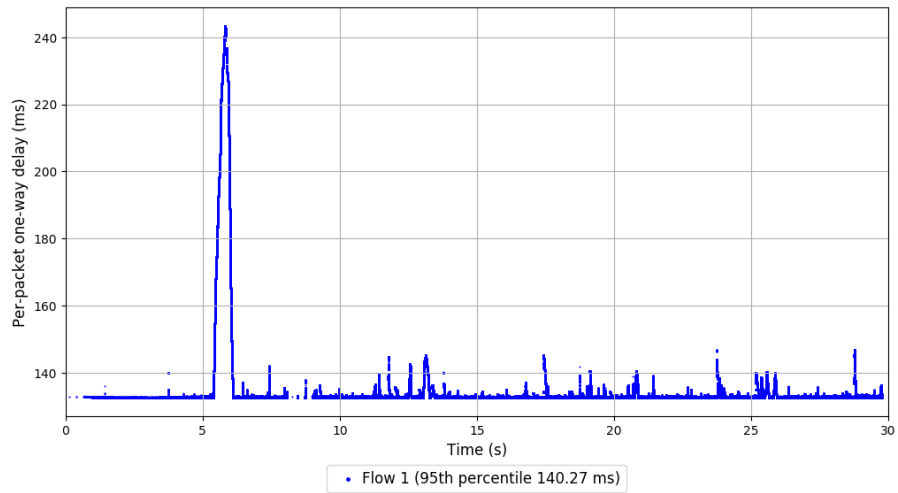
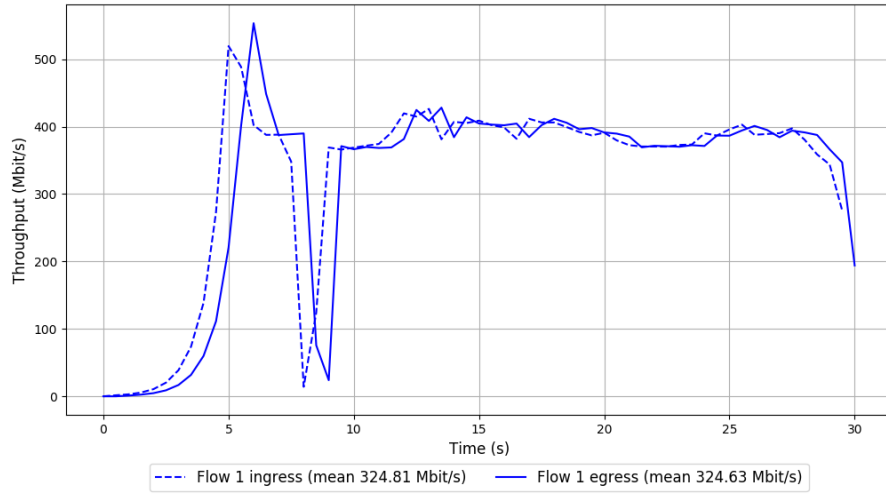
-- Flow 1:

Average throughput: 324.63 Mbit/s

95th percentile per-packet one-way delay: 140.274 ms

Loss rate: 0.94%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-05-30 04:50:46

End at: 2019-05-30 04:51:16

Local clock offset: -0.312 ms

Remote clock offset: -0.136 ms

Below is generated by plot.py at 2019-05-30 08:30:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 292.21 Mbit/s

95th percentile per-packet one-way delay: 134.662 ms

Loss rate: 0.75%

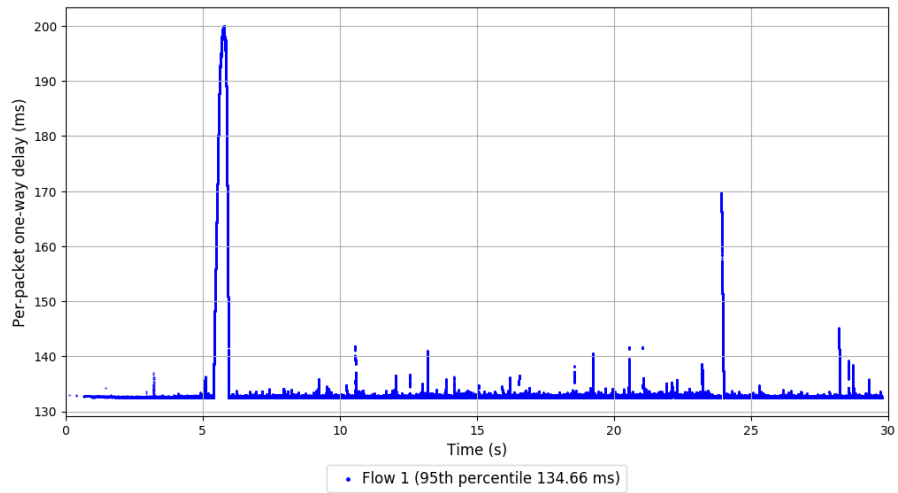
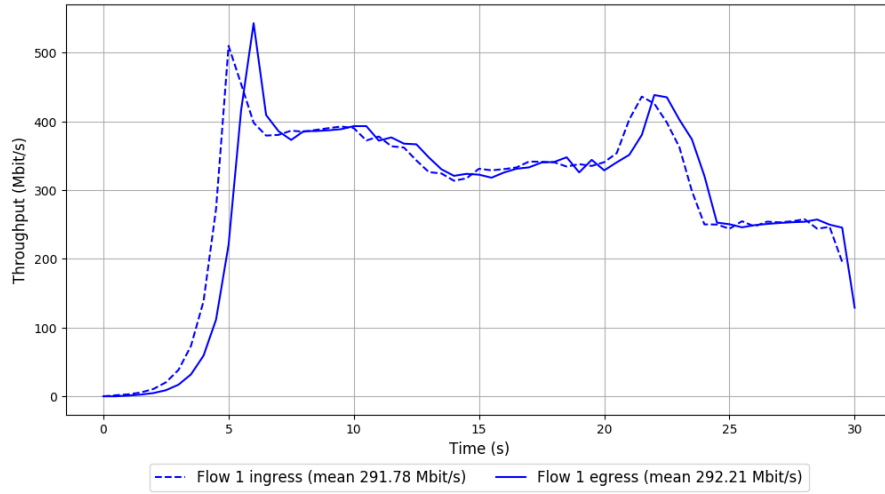
-- Flow 1:

Average throughput: 292.21 Mbit/s

95th percentile per-packet one-way delay: 134.662 ms

Loss rate: 0.75%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-05-30 05:22:02

End at: 2019-05-30 05:22:32

Local clock offset: -0.456 ms

Remote clock offset: -0.172 ms

Below is generated by plot.py at 2019-05-30 08:30:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.97 Mbit/s

95th percentile per-packet one-way delay: 132.816 ms

Loss rate: 1.96%

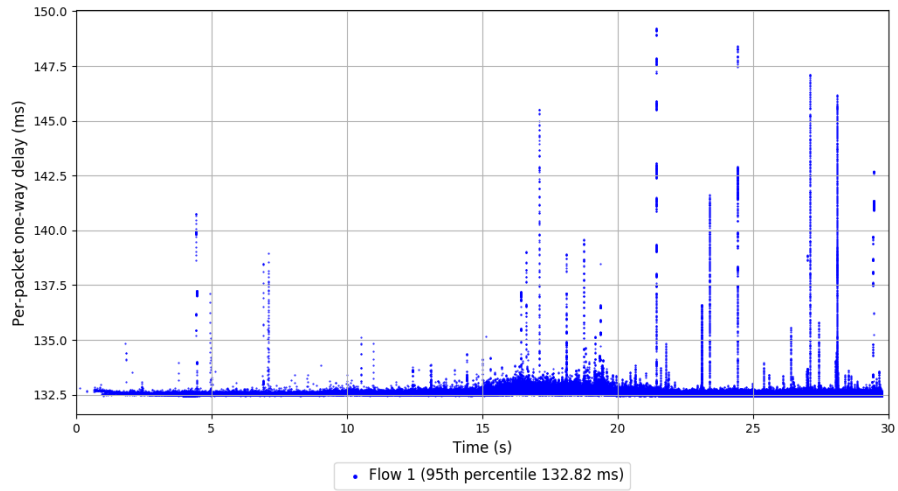
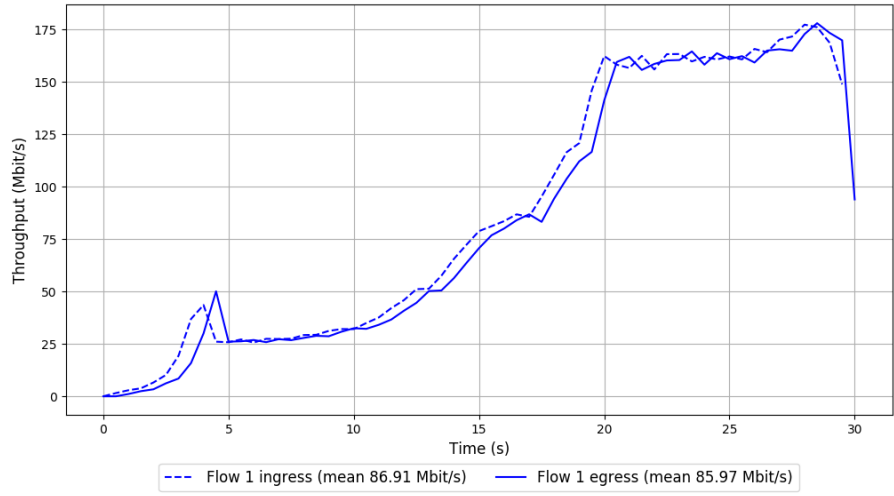
-- Flow 1:

Average throughput: 85.97 Mbit/s

95th percentile per-packet one-way delay: 132.816 ms

Loss rate: 1.96%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-05-30 05:52:53

End at: 2019-05-30 05:53:23

Local clock offset: 0.252 ms

Remote clock offset: -0.06 ms

Below is generated by plot.py at 2019-05-30 08:31:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 290.34 Mbit/s

95th percentile per-packet one-way delay: 138.737 ms

Loss rate: 1.21%

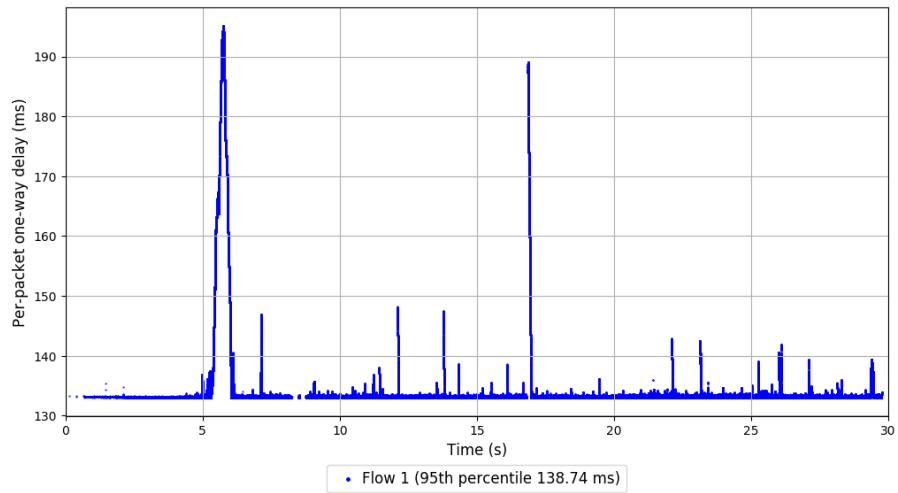
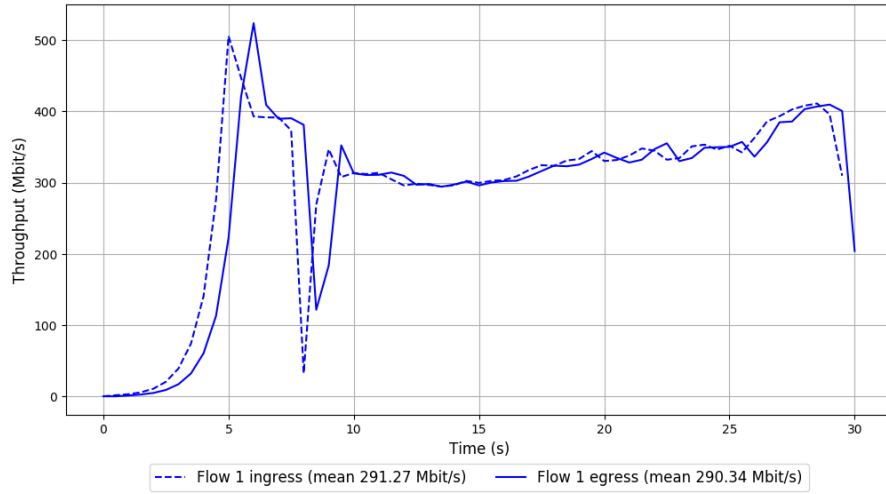
-- Flow 1:

Average throughput: 290.34 Mbit/s

95th percentile per-packet one-way delay: 138.737 ms

Loss rate: 1.21%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-05-30 06:24:44

End at: 2019-05-30 06:25:14

Local clock offset: 0.085 ms

Remote clock offset: -0.065 ms

Below is generated by plot.py at 2019-05-30 08:31:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 319.71 Mbit/s

95th percentile per-packet one-way delay: 146.396 ms

Loss rate: 0.92%

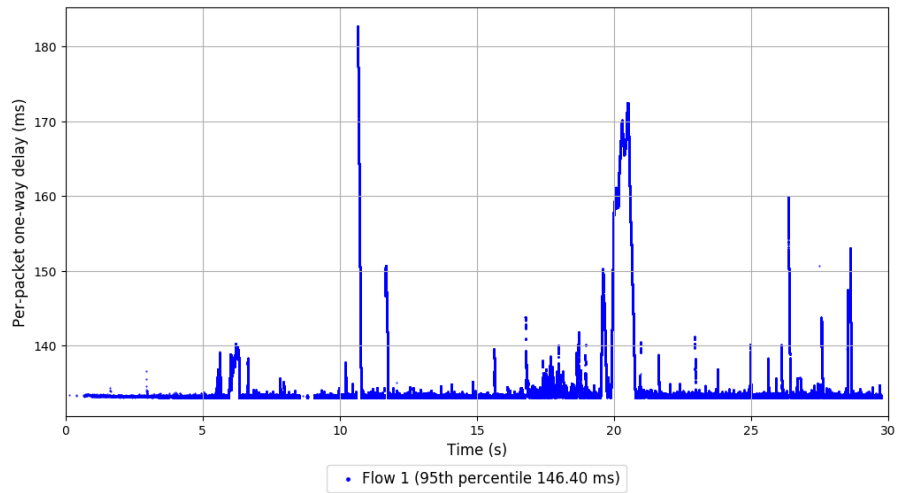
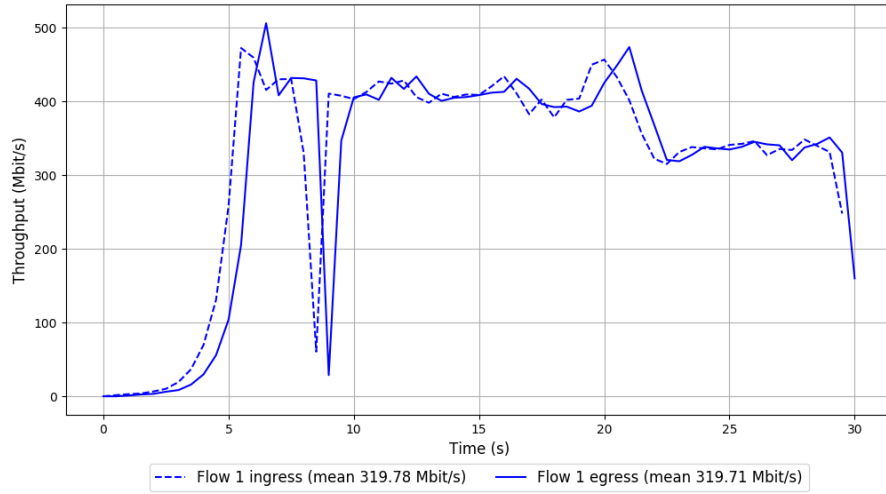
-- Flow 1:

Average throughput: 319.71 Mbit/s

95th percentile per-packet one-way delay: 146.396 ms

Loss rate: 0.92%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

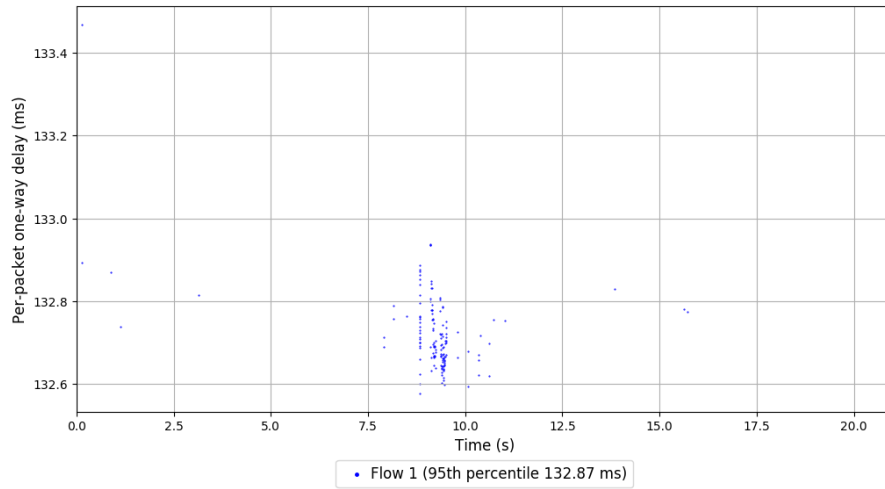
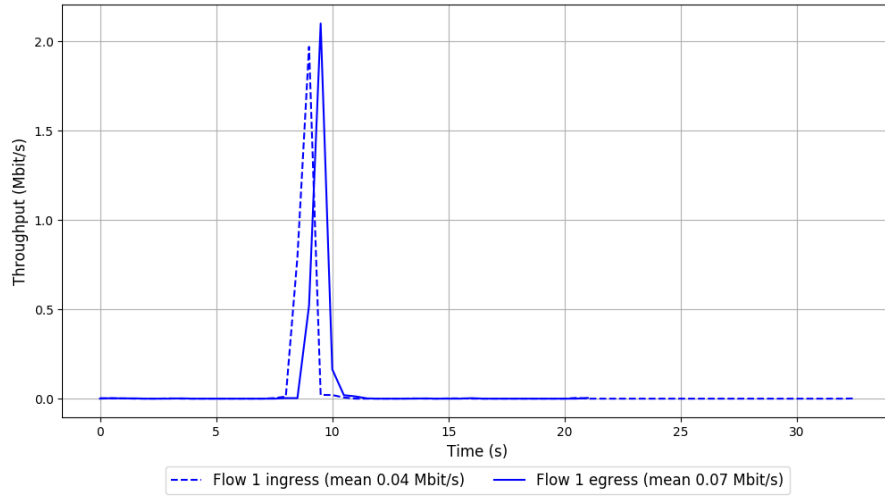
Start at: 2019-05-30 04:48:23

End at: 2019-05-30 04:48:53

Local clock offset: -0.128 ms

Remote clock offset: -0.146 ms

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-05-30 05:19:39

End at: 2019-05-30 05:20:09

Local clock offset: -0.052 ms

Remote clock offset: -0.14 ms

Below is generated by plot.py at 2019-05-30 08:31:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 133.185 ms

Loss rate: 0.00%

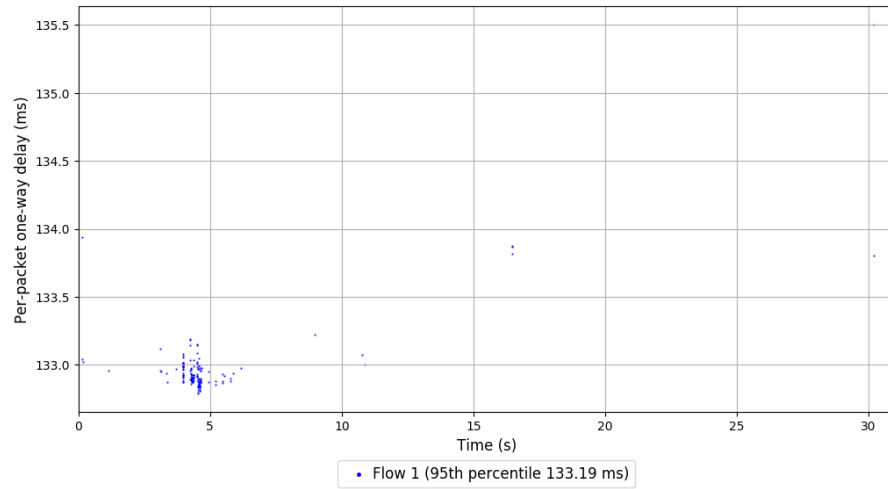
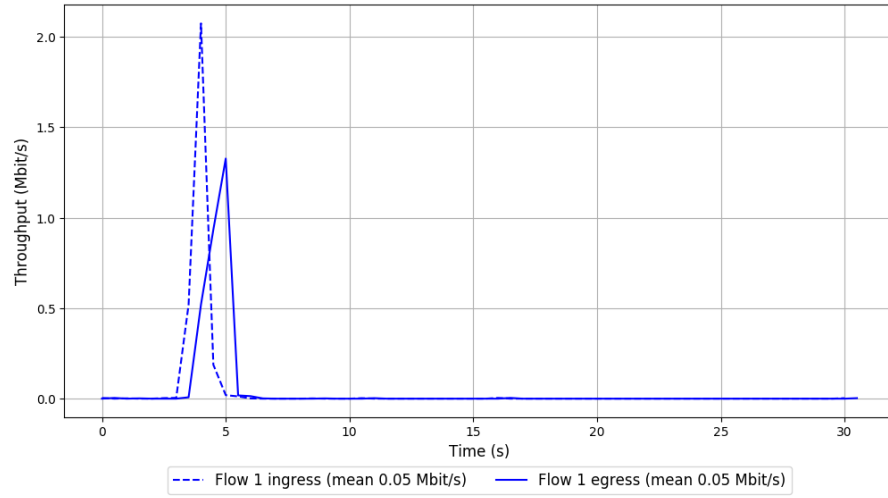
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 133.185 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

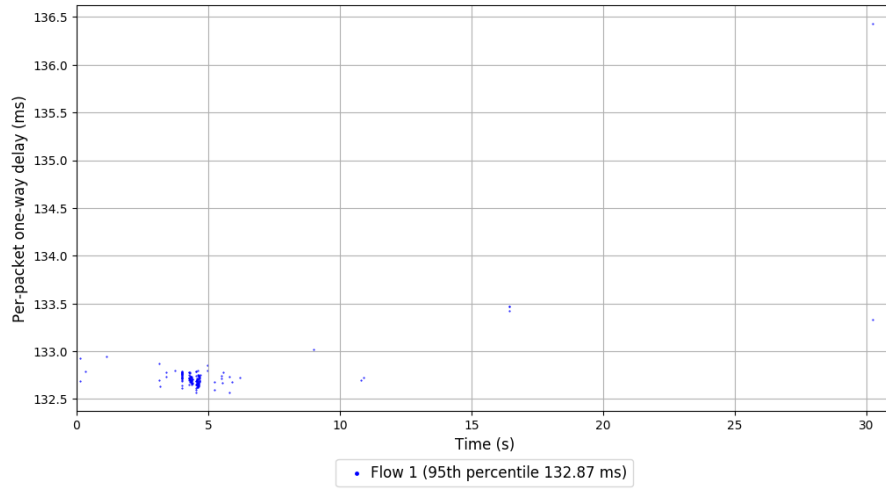
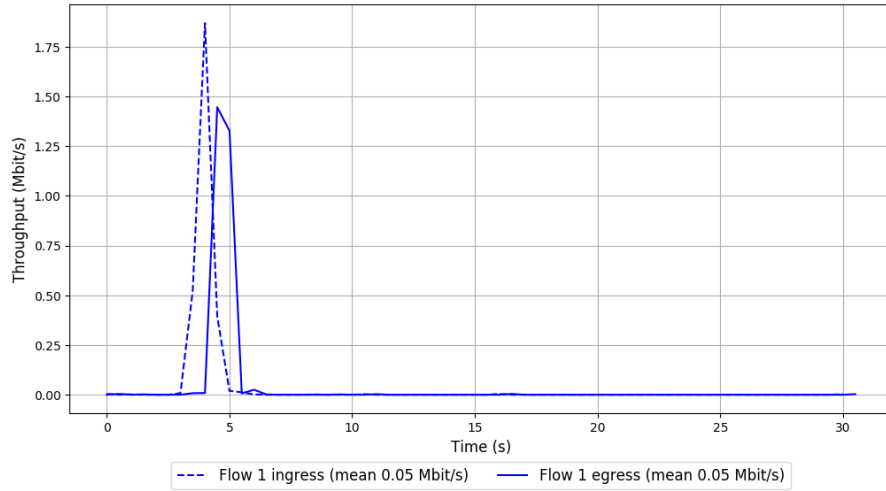


Run 3: Statistics of WebRTC media

Start at: 2019-05-30 05:50:30
End at: 2019-05-30 05:51:00
Local clock offset: -0.248 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2019-05-30 08:31:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 132.872 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 132.872 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-05-30 06:22:02

End at: 2019-05-30 06:22:32

Local clock offset: 0.042 ms

Remote clock offset: -0.045 ms

Below is generated by plot.py at 2019-05-30 08:31:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 133.039 ms

Loss rate: 0.00%

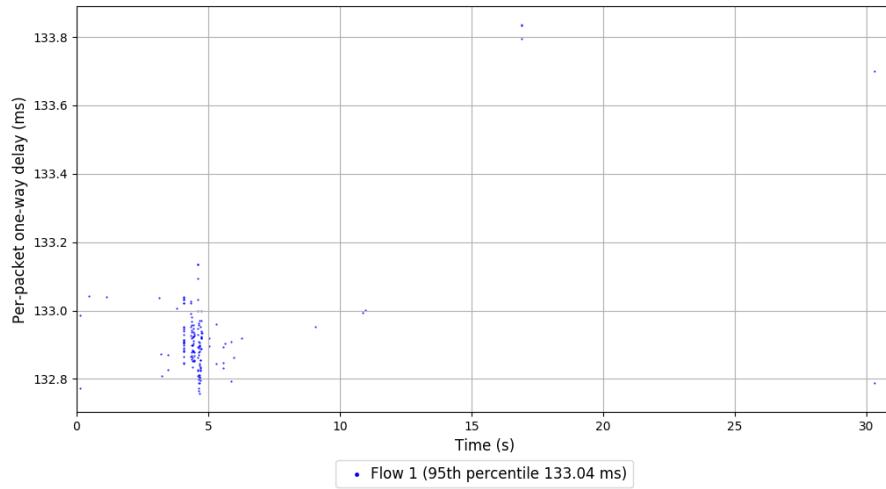
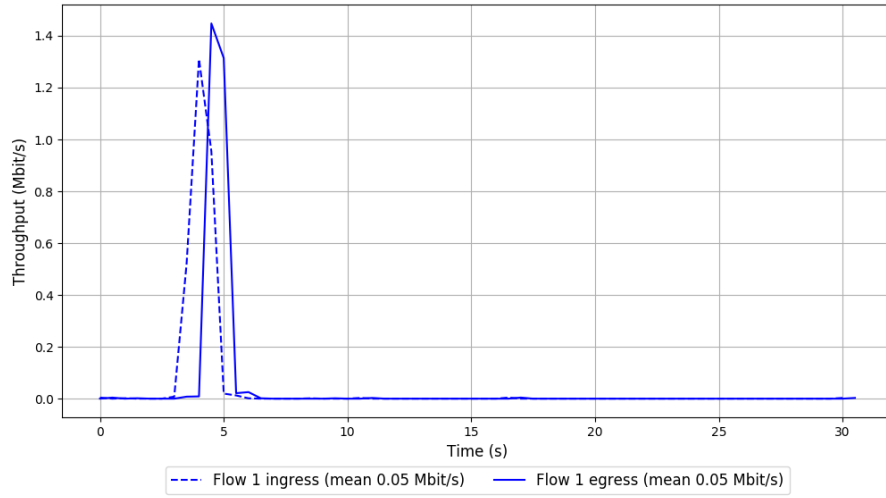
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 133.039 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-05-30 06:53:39

End at: 2019-05-30 06:54:09

Local clock offset: -0.34 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2019-05-30 08:31:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 132.931 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 132.931 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

