

Pantheon Report

Generated at 2019-12-11 14:02:37 (UTC).

Data path: Saudi Arabia on `enp2s0` (*remote*) → AWS India 2 on `ens5` (*local*).

Repeated the test of 24 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

NTP offsets were measured against `nets.org.sg` and have been applied to correct the timestamps in logs.

System info:

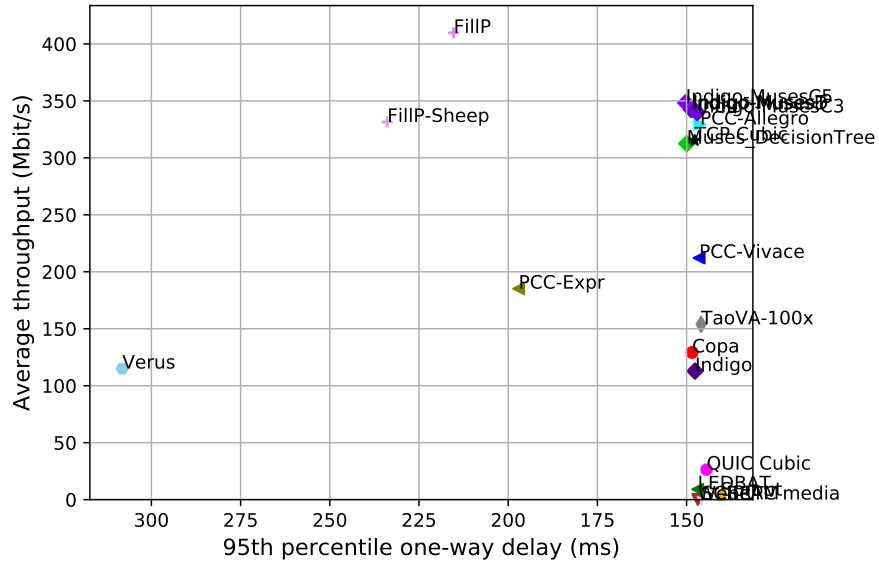
```
Linux 4.15.0-1054-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

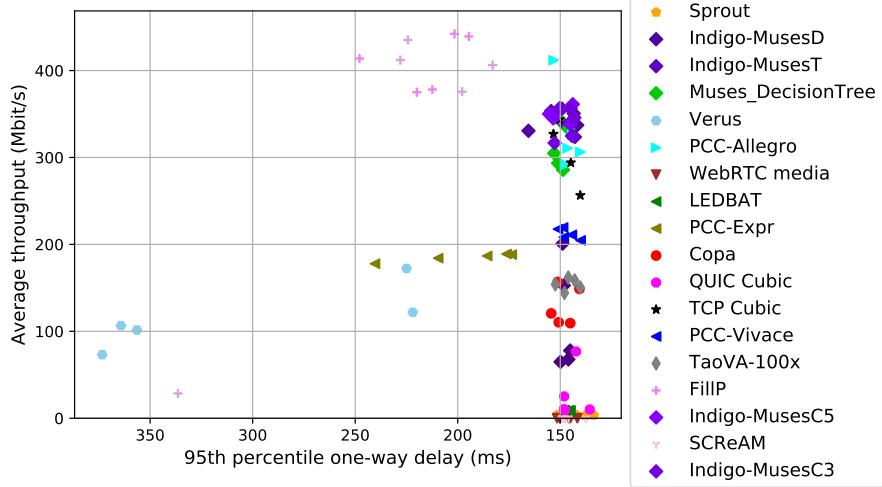
```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd9c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 11c9498ecb1596b02ccd896791a02d03172af7ed
M helpers/__init__.pyc
M helpers/context.pyc
M helpers/utils.pyc
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-quic @ 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 Saudi Arabia to AWS India 2, 5 runs of 30s each per scheme
(mean of all runs by scheme)



test from Saudi Arabia to AWS India 2, 5 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	0	N/A	N/A	N/A
Copa	5	129.20	148.45	0.61
TCP Cubic	5	315.27	147.75	0.66
FillP	5	409.71	215.28	1.70
FillP-Sheep	5	331.53	233.90	0.69
Indigo	5	112.82	147.64	0.65
Indigo-MusesC3	5	339.85	147.01	0.74
Indigo-MusesC5	5	348.37	150.24	0.80
Indigo-MusesD	5	342.51	148.67	0.77
Indigo-MusesT	5	343.23	148.28	0.77
LEDBAT	5	9.06	146.90	1.33
Muses_DecisionTree	5	312.45	149.95	0.73
Muses_DecisionTreeH0	0	N/A	N/A	N/A
Muses_DecisionTreeR0	0	N/A	N/A	N/A
PCC-Allegro	5	329.28	146.24	0.96
PCC-Expr	5	185.18	197.08	0.71
QUIC Cubic	5	26.37	144.38	1.03
SCReAM	5	0.22	145.83	0.64
Sprout	5	3.49	140.41	0.92
TaoVA-100x	5	153.88	145.93	0.65
TCP Vegas	0	N/A	N/A	N/A
Verus	5	115.06	308.17	1.88
PCC-Vivace	5	212.15	146.49	0.79
WebRTC media	5	0.05	146.87	0.01

Run 1: Statistics of TCP BBR

Start at: 2019-12-11 10:48:03

End at: 2019-12-11 10:48:33

Local clock offset: 5.535 ms

Remote clock offset: -48.104 ms

Run 1: Report of TCP BBR — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of TCP BBR

Start at: 2019-12-11 11:19:28

End at: 2019-12-11 11:19:58

Local clock offset: 5.739 ms

Remote clock offset: -44.371 ms

Run 2: Report of TCP BBR — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of TCP BBR

Start at: 2019-12-11 11:50:46

End at: 2019-12-11 11:51:16

Local clock offset: 5.786 ms

Remote clock offset: -46.206 ms

Run 3: Report of TCP BBR — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of TCP BBR

Start at: 2019-12-11 12:21:58

End at: 2019-12-11 12:22:28

Local clock offset: 5.706 ms

Remote clock offset: -40.364 ms

Run 4: Report of TCP BBR — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of TCP BBR

Start at: 2019-12-11 12:53:38

End at: 2019-12-11 12:54:08

Local clock offset: 3.841 ms

Remote clock offset: -35.573 ms

Run 5: Report of TCP BBR — Data Link

Figure is missing

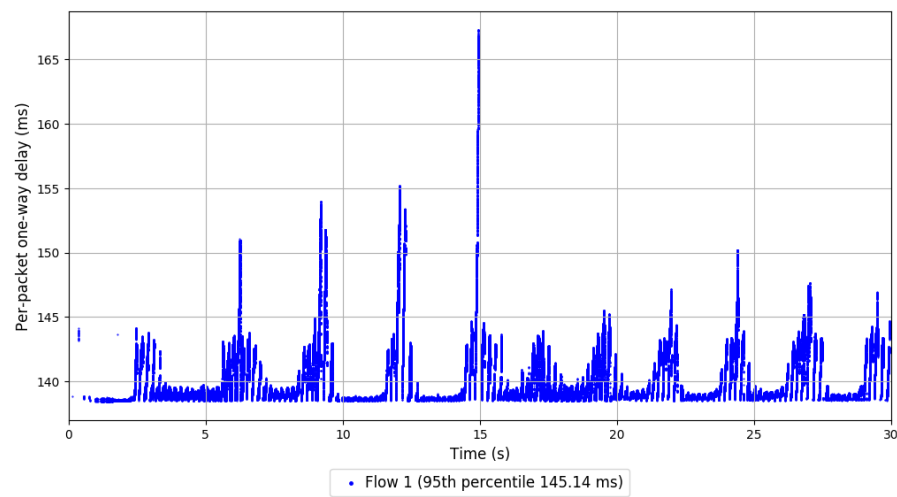
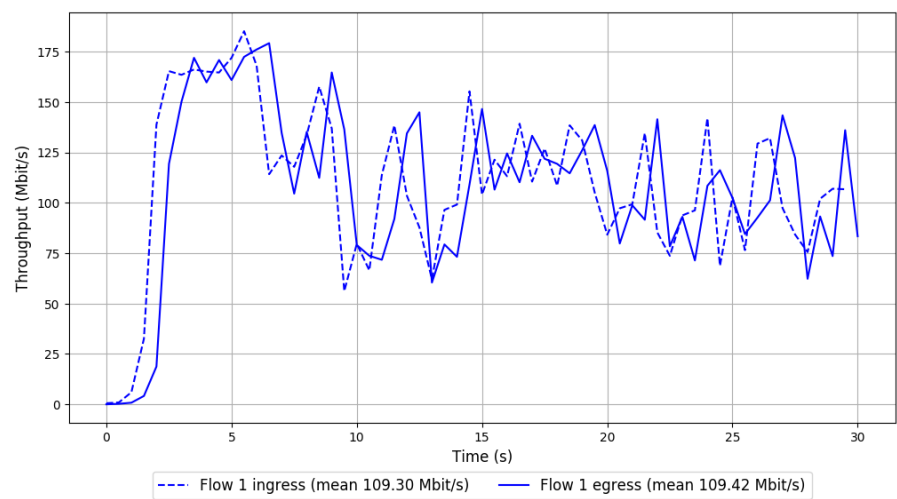
Figure is missing

Run 1: Statistics of Copa

Start at: 2019-12-11 11:05:31
End at: 2019-12-11 11:06:01
Local clock offset: 4.404 ms
Remote clock offset: -38.392 ms

Below is generated by plot.py at 2019-12-11 13:30:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 109.42 Mbit/s
95th percentile per-packet one-way delay: 145.143 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 109.42 Mbit/s
95th percentile per-packet one-way delay: 145.143 ms
Loss rate: 0.55%

Run 1: Report of Copa — Data Link

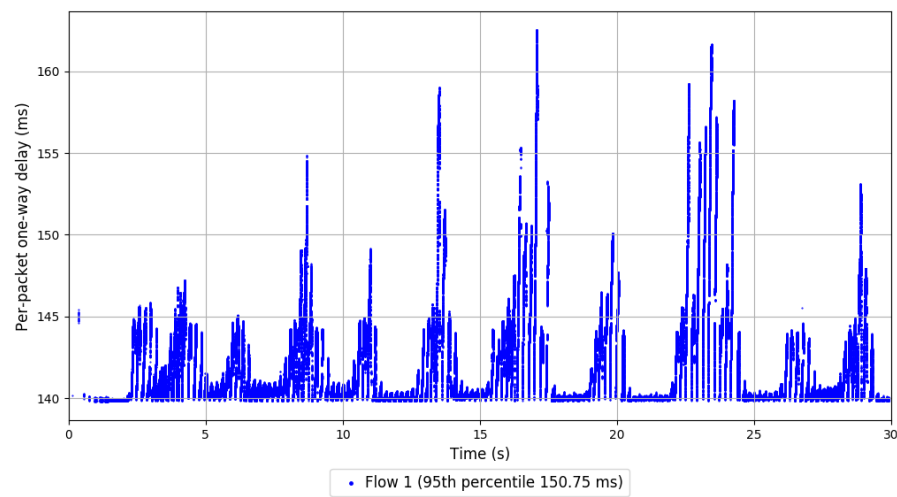
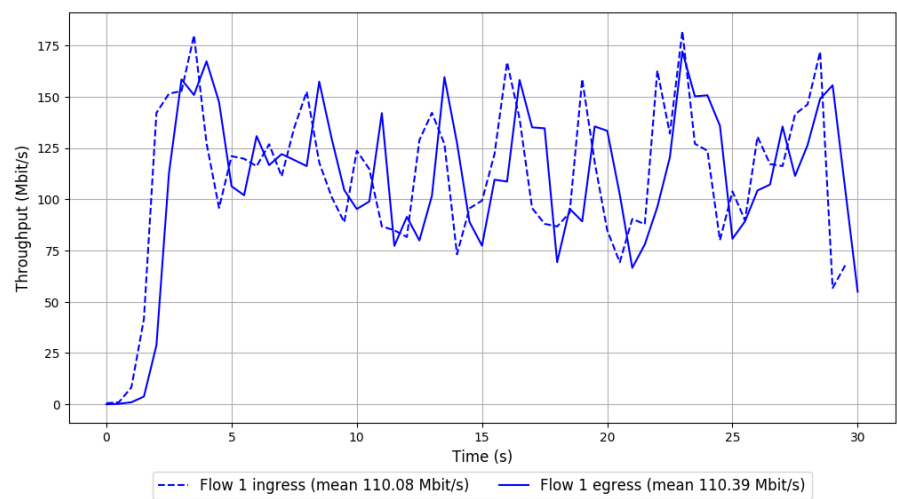


Run 2: Statistics of Copa

Start at: 2019-12-11 11:36:47
End at: 2019-12-11 11:37:17
Local clock offset: 5.909 ms
Remote clock offset: -43.283 ms

Below is generated by plot.py at 2019-12-11 13:30:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 110.39 Mbit/s
95th percentile per-packet one-way delay: 150.755 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 110.39 Mbit/s
95th percentile per-packet one-way delay: 150.755 ms
Loss rate: 0.36%

Run 2: Report of Copa — Data Link

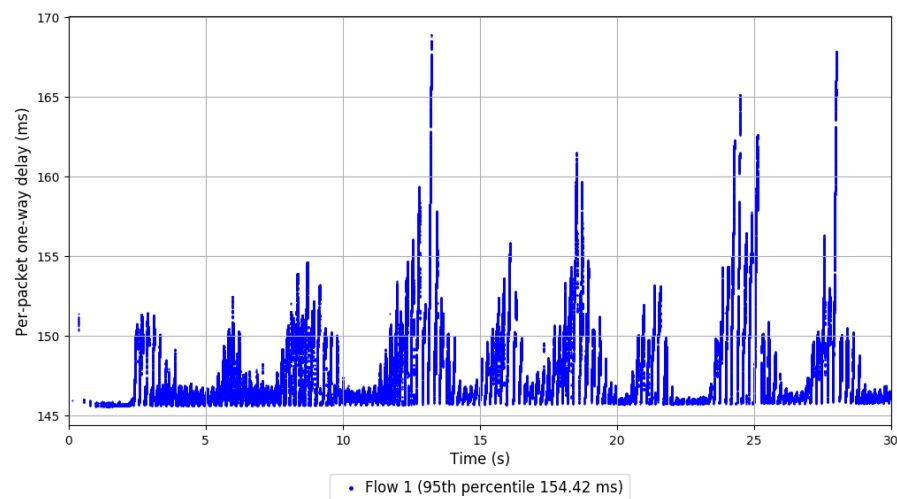
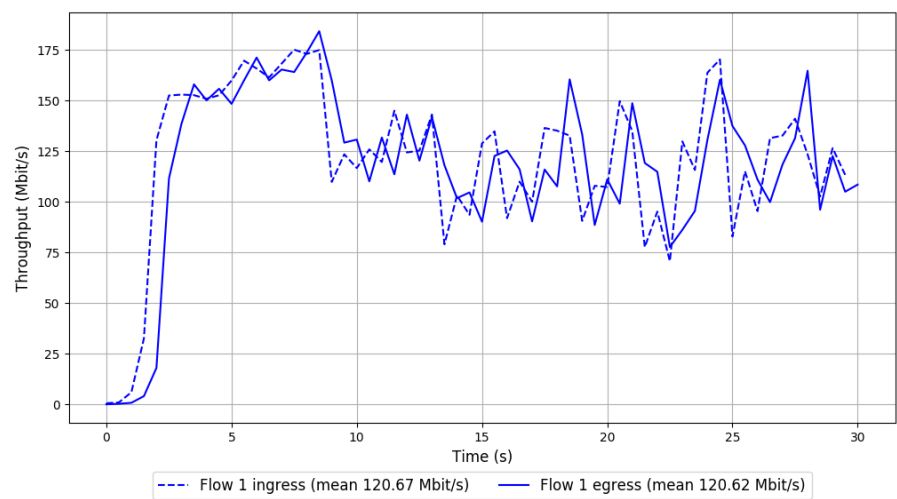


Run 3: Statistics of Copa

Start at: 2019-12-11 12:08:08
End at: 2019-12-11 12:08:38
Local clock offset: 6.939 ms
Remote clock offset: -43.367 ms

Below is generated by plot.py at 2019-12-11 13:30:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 120.62 Mbit/s
95th percentile per-packet one-way delay: 154.416 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 120.62 Mbit/s
95th percentile per-packet one-way delay: 154.416 ms
Loss rate: 0.71%

Run 3: Report of Copa — Data Link

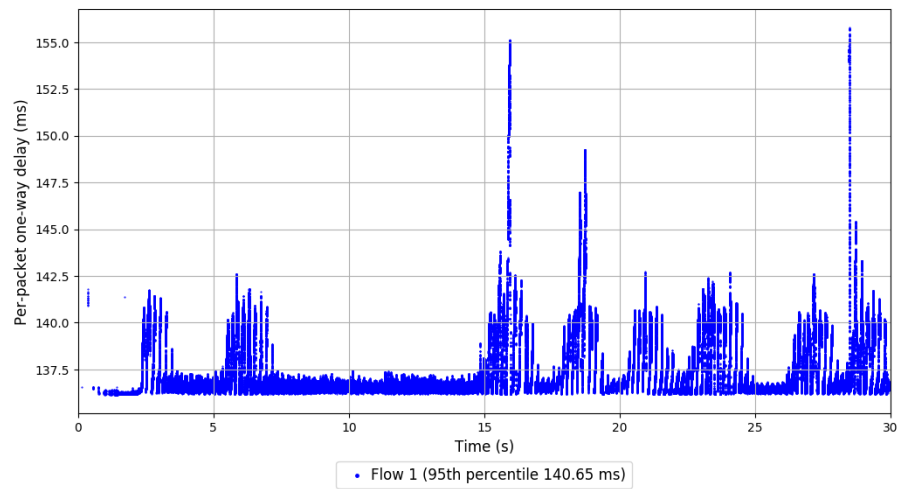
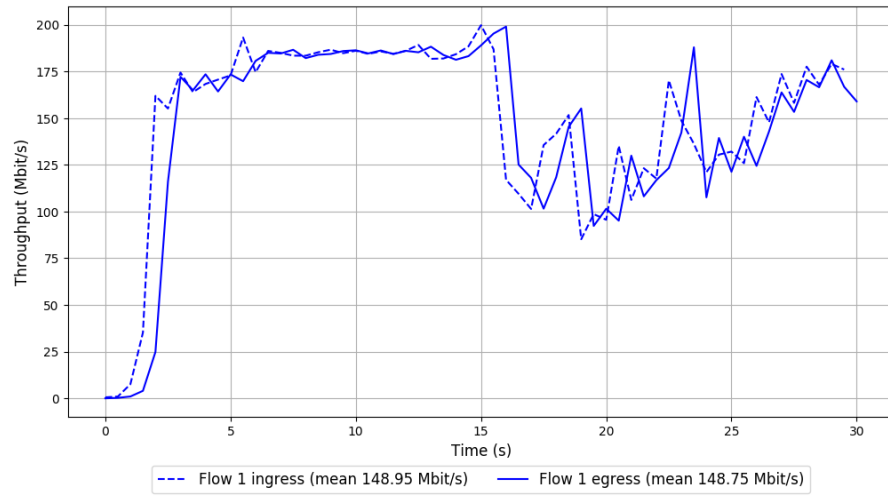


Run 4: Statistics of Copa

Start at: 2019-12-11 12:39:29
End at: 2019-12-11 12:39:59
Local clock offset: 3.878 ms
Remote clock offset: -38.994 ms

Below is generated by plot.py at 2019-12-11 13:31:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 148.75 Mbit/s
95th percentile per-packet one-way delay: 140.647 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 148.75 Mbit/s
95th percentile per-packet one-way delay: 140.647 ms
Loss rate: 0.78%

Run 4: Report of Copa — Data Link

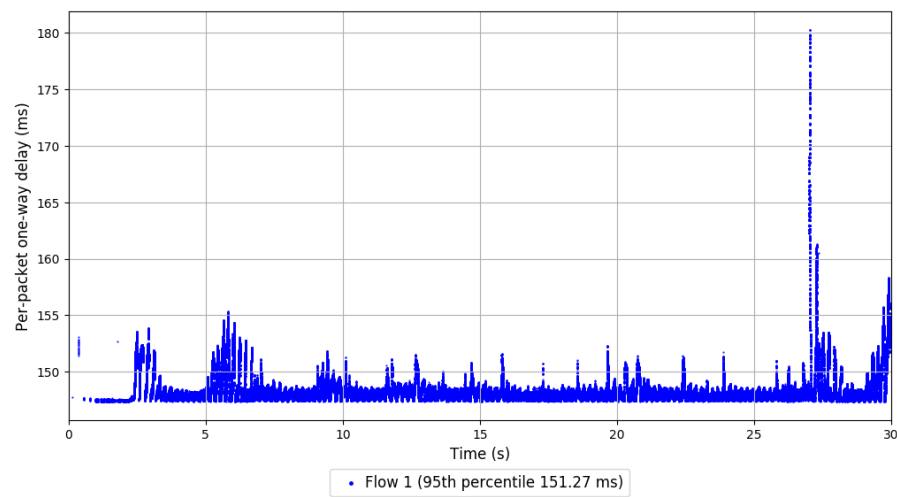
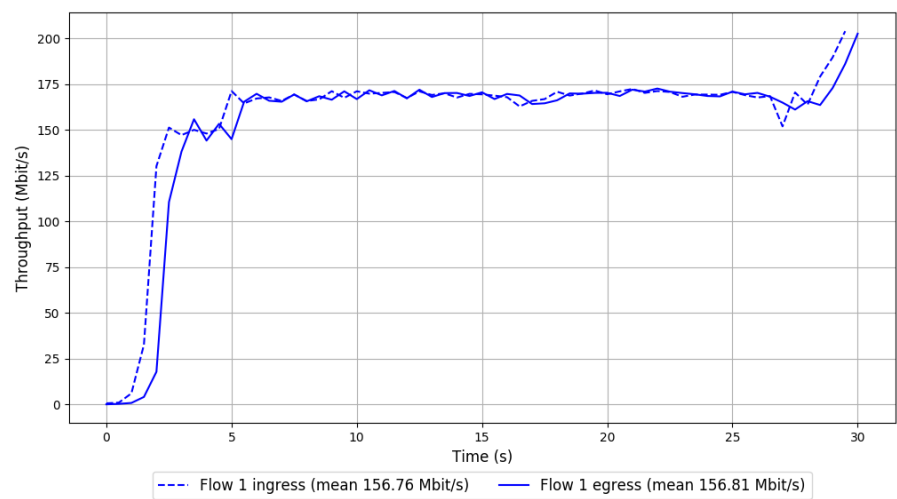


Run 5: Statistics of Copa

Start at: 2019-12-11 13:11:05
End at: 2019-12-11 13:11:35
Local clock offset: 4.017 ms
Remote clock offset: -45.544 ms

Below is generated by plot.py at 2019-12-11 13:31:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 156.81 Mbit/s
95th percentile per-packet one-way delay: 151.270 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 156.81 Mbit/s
95th percentile per-packet one-way delay: 151.270 ms
Loss rate: 0.64%

Run 5: Report of Copa — Data Link

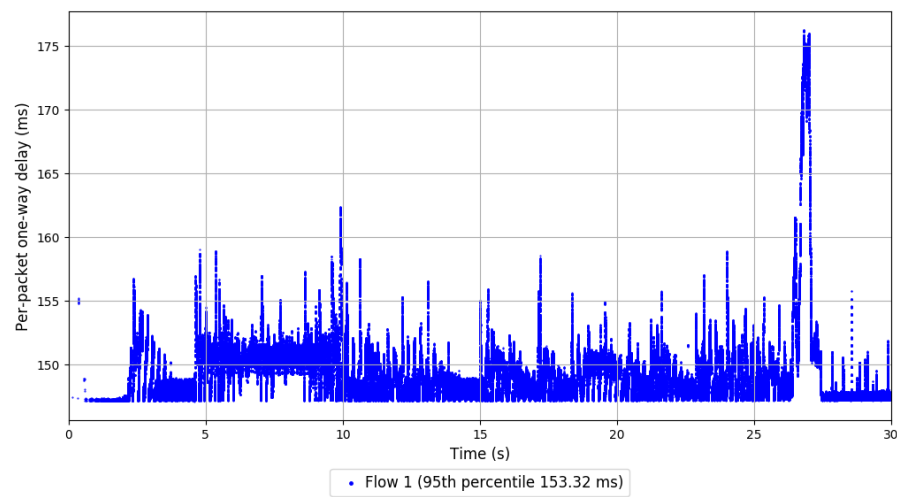
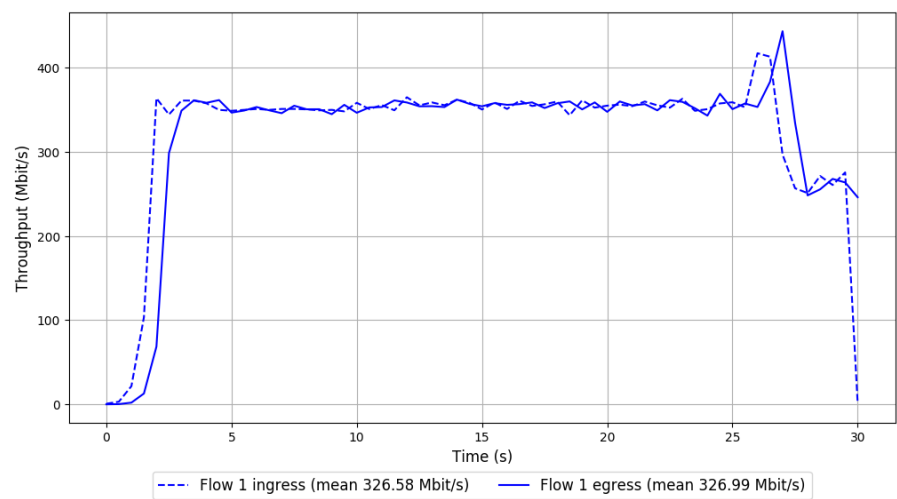


Run 1: Statistics of TCP Cubic

Start at: 2019-12-11 10:55:45
End at: 2019-12-11 10:56:15
Local clock offset: 4.142 ms
Remote clock offset: -47.961 ms

Below is generated by plot.py at 2019-12-11 13:31:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 326.99 Mbit/s
95th percentile per-packet one-way delay: 153.322 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 326.99 Mbit/s
95th percentile per-packet one-way delay: 153.322 ms
Loss rate: 0.54%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-12-11 11:27:09

End at: 2019-12-11 11:27:39

Local clock offset: 6.018 ms

Remote clock offset: -39.7 ms

Below is generated by plot.py at 2019-12-11 13:31:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 256.42 Mbit/s

95th percentile per-packet one-way delay: 140.226 ms

Loss rate: 0.70%

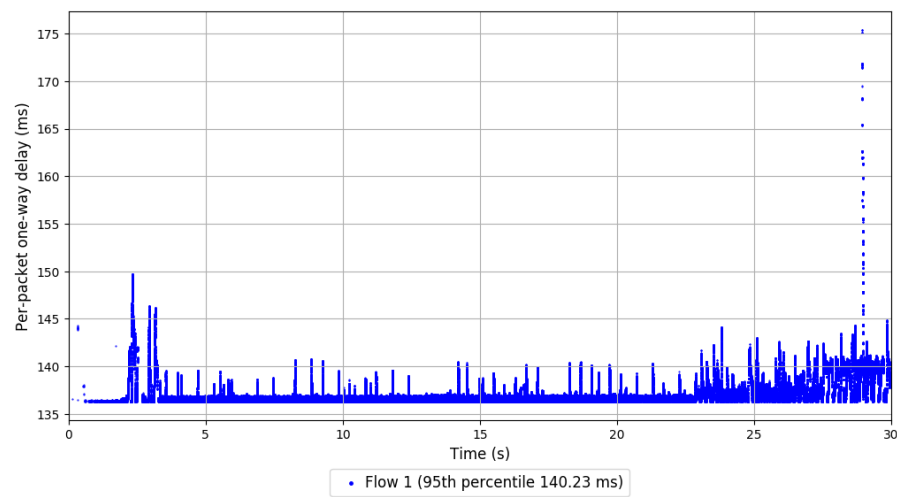
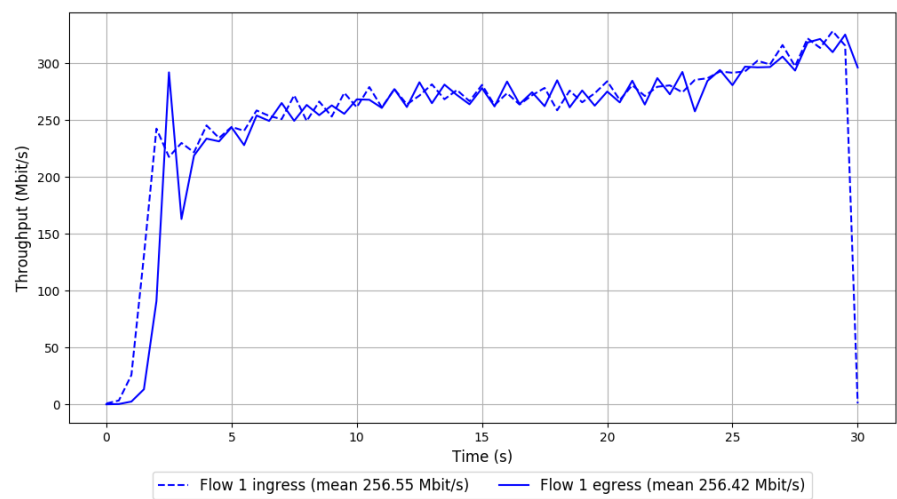
-- Flow 1:

Average throughput: 256.42 Mbit/s

95th percentile per-packet one-way delay: 140.226 ms

Loss rate: 0.70%

Run 2: Report of TCP Cubic — Data Link

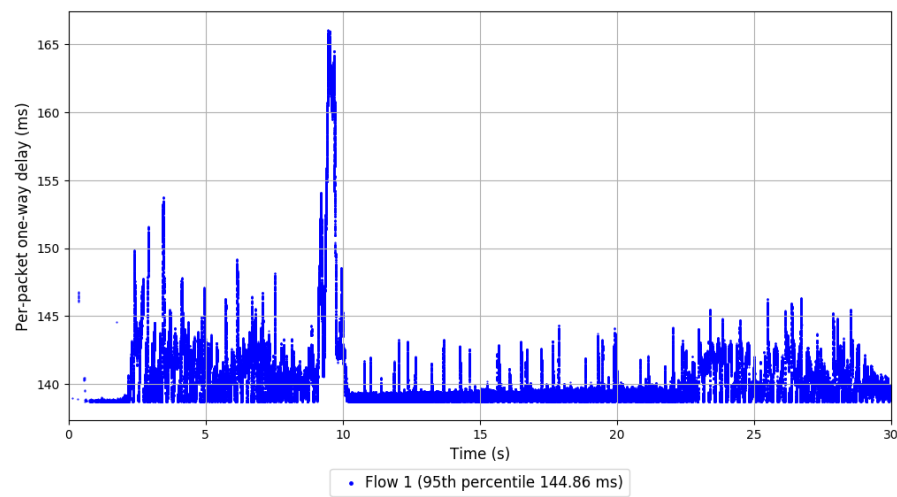
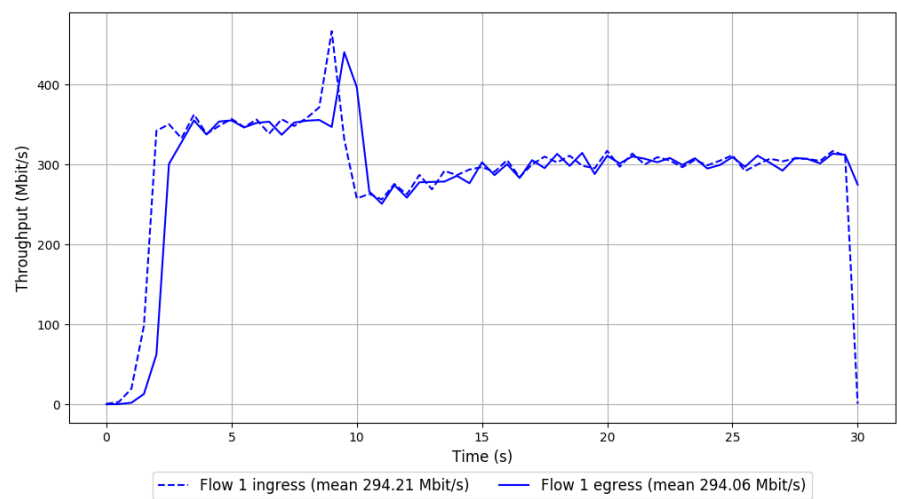


Run 3: Statistics of TCP Cubic

Start at: 2019-12-11 11:58:26
End at: 2019-12-11 11:58:56
Local clock offset: 6.709 ms
Remote clock offset: -36.937 ms

Below is generated by plot.py at 2019-12-11 13:31:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 294.06 Mbit/s
95th percentile per-packet one-way delay: 144.861 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 294.06 Mbit/s
95th percentile per-packet one-way delay: 144.861 ms
Loss rate: 0.71%

Run 3: Report of TCP Cubic — Data Link

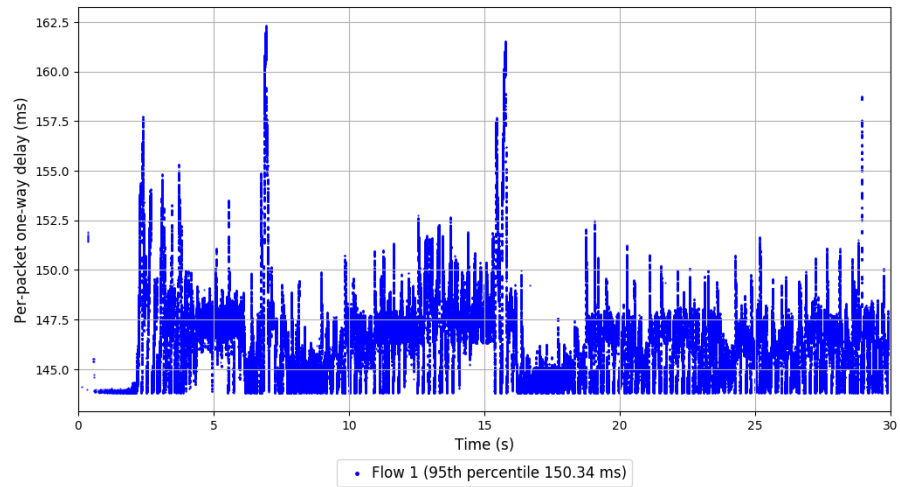
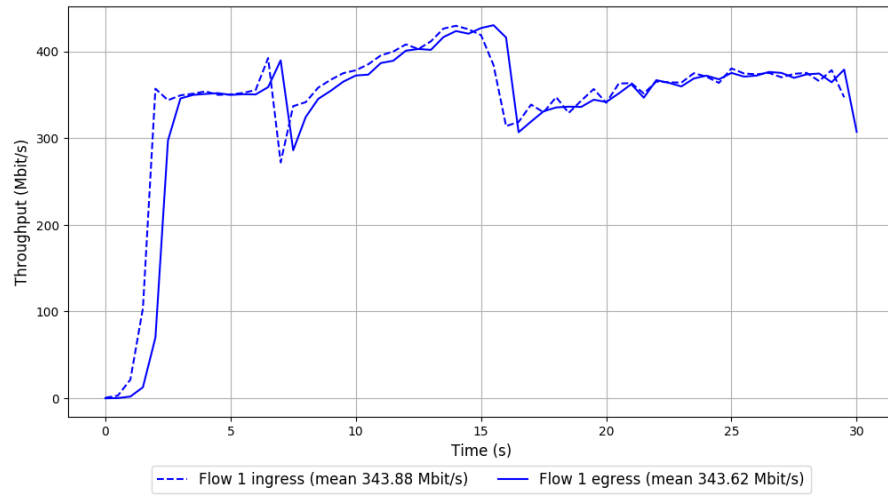


Run 4: Statistics of TCP Cubic

Start at: 2019-12-11 12:29:42
End at: 2019-12-11 12:30:12
Local clock offset: 0.325 ms
Remote clock offset: -46.018 ms

Below is generated by plot.py at 2019-12-11 13:33:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 343.62 Mbit/s
95th percentile per-packet one-way delay: 150.339 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 343.62 Mbit/s
95th percentile per-packet one-way delay: 150.339 ms
Loss rate: 0.73%

Run 4: Report of TCP Cubic — Data Link

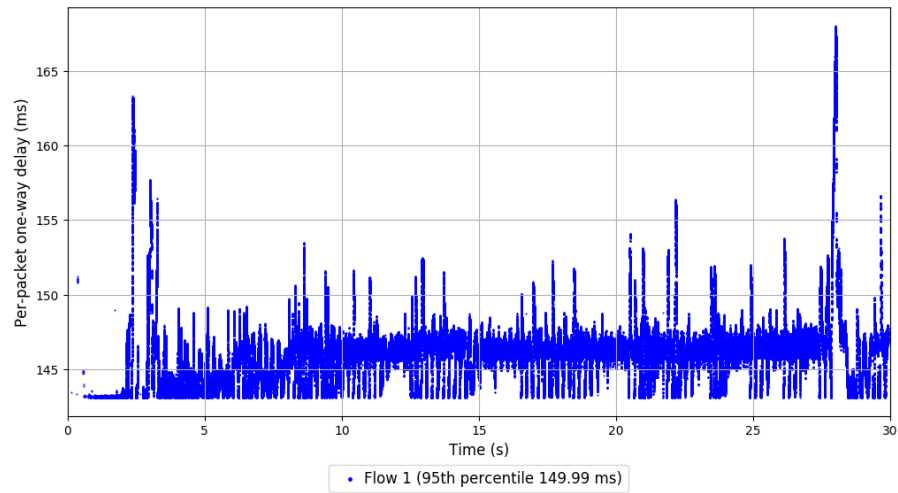
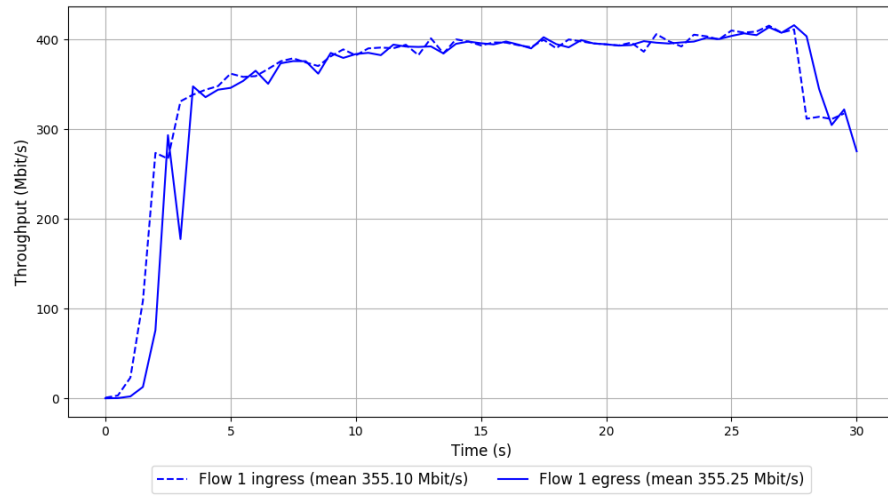


Run 5: Statistics of TCP Cubic

Start at: 2019-12-11 13:01:20
End at: 2019-12-11 13:01:50
Local clock offset: 4.699 ms
Remote clock offset: -44.877 ms

Below is generated by plot.py at 2019-12-11 13:33:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 355.25 Mbit/s
95th percentile per-packet one-way delay: 149.990 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 355.25 Mbit/s
95th percentile per-packet one-way delay: 149.990 ms
Loss rate: 0.62%

Run 5: Report of TCP Cubic — Data Link

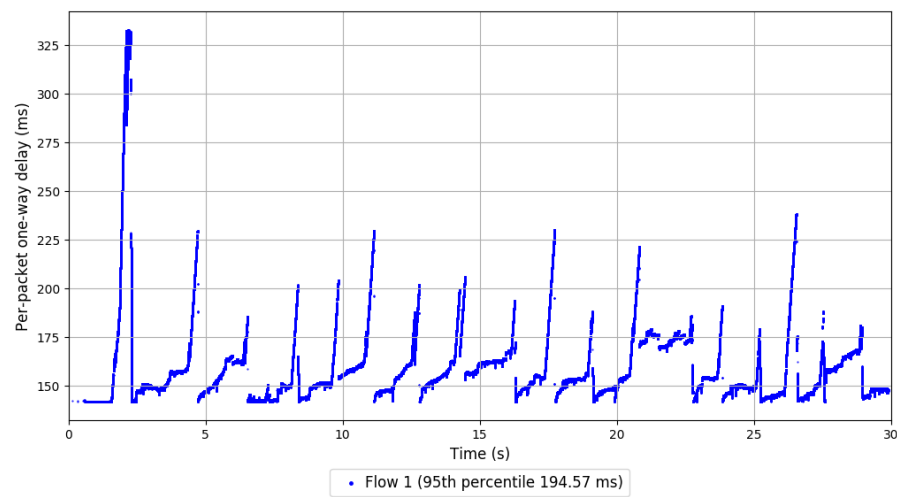
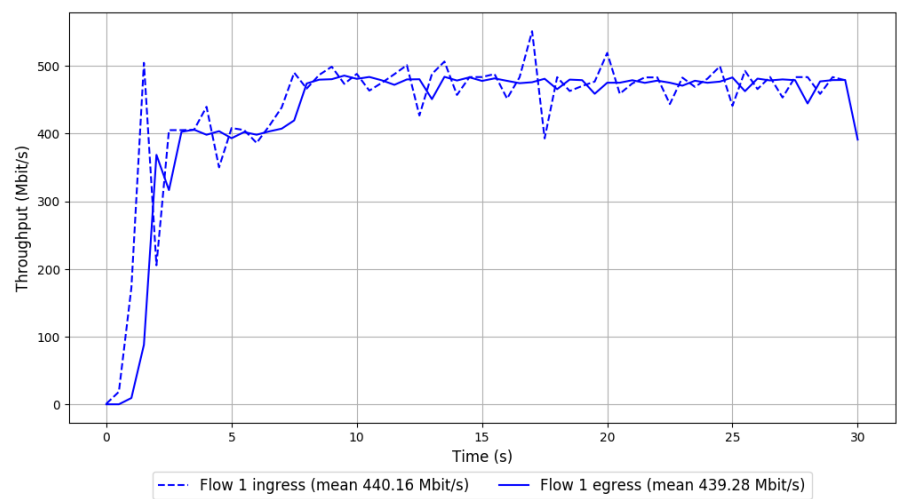


Run 1: Statistics of FillP

Start at: 2019-12-11 11:02:39
End at: 2019-12-11 11:03:09
Local clock offset: 3.94 ms
Remote clock offset: -42.564 ms

Below is generated by plot.py at 2019-12-11 13:36:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 439.28 Mbit/s
95th percentile per-packet one-way delay: 194.575 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 439.28 Mbit/s
95th percentile per-packet one-way delay: 194.575 ms
Loss rate: 0.98%

Run 1: Report of FillP — Data Link

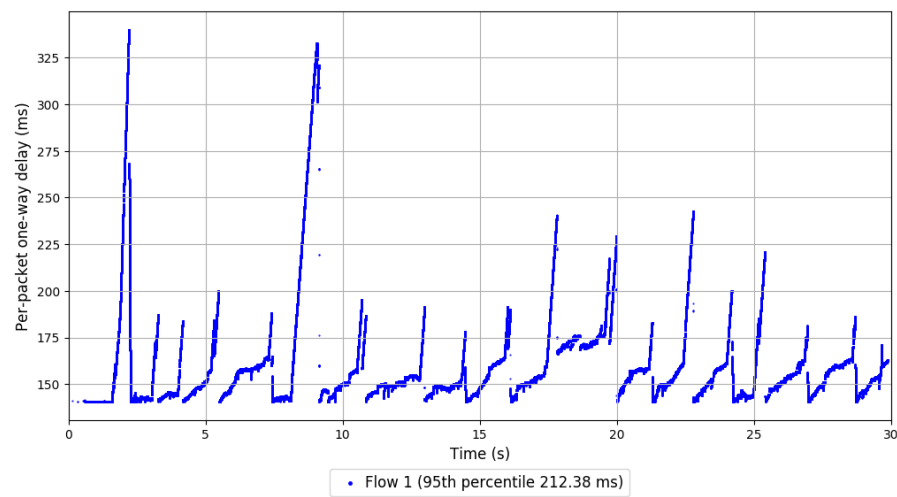
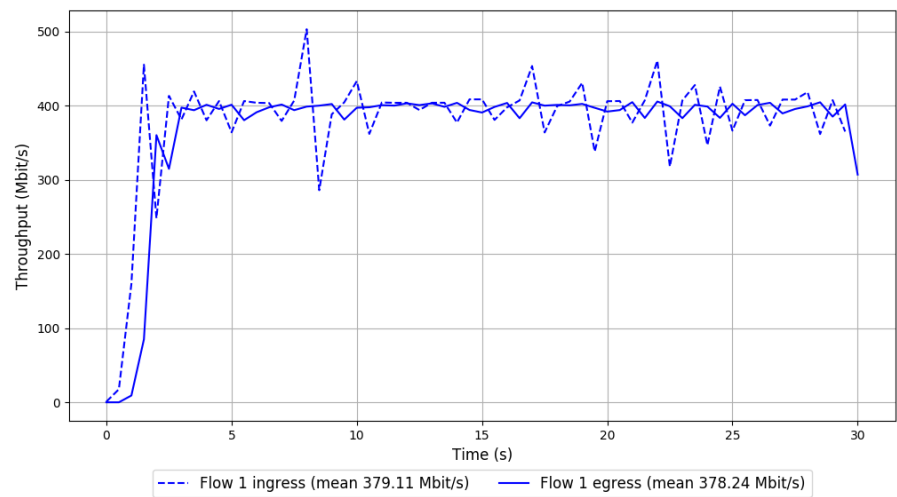


Run 2: Statistics of FillP

Start at: 2019-12-11 11:34:00
End at: 2019-12-11 11:34:30
Local clock offset: 6.128 ms
Remote clock offset: -39.449 ms

Below is generated by plot.py at 2019-12-11 13:36:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 378.24 Mbit/s
95th percentile per-packet one-way delay: 212.383 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 378.24 Mbit/s
95th percentile per-packet one-way delay: 212.383 ms
Loss rate: 0.90%

Run 2: Report of FillP — Data Link

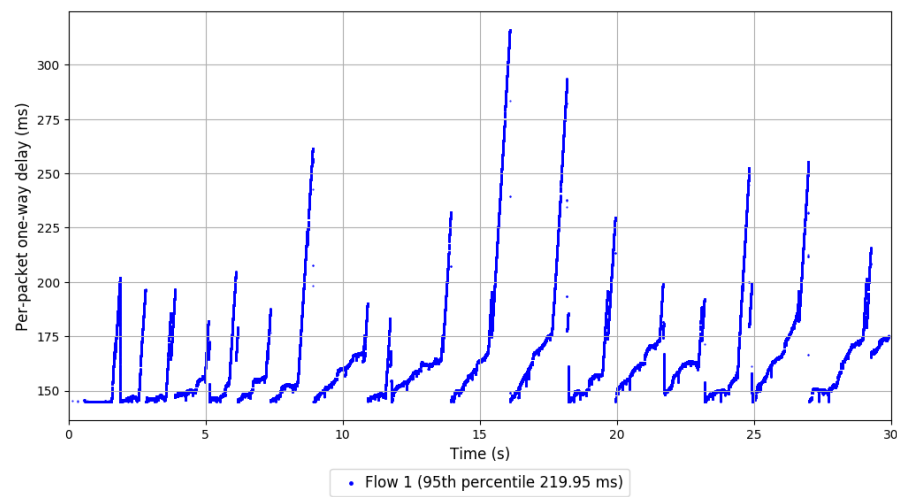
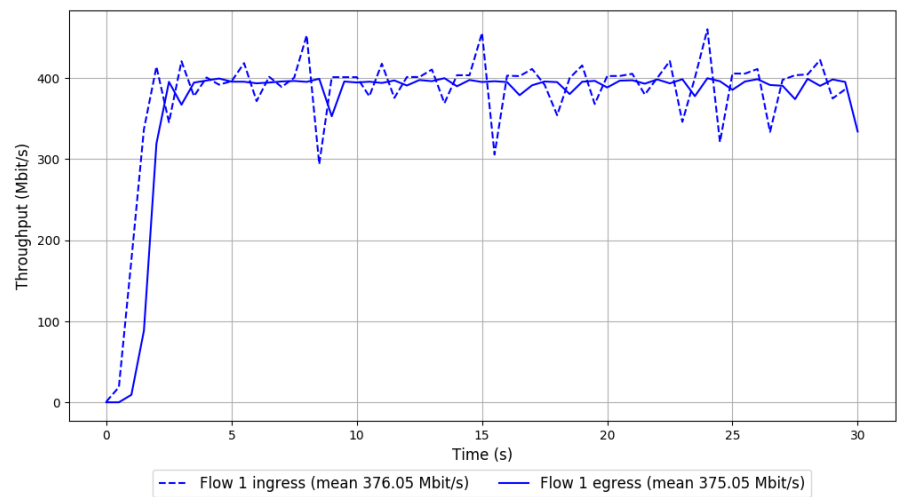


Run 3: Statistics of FillP

Start at: 2019-12-11 12:05:18
End at: 2019-12-11 12:05:48
Local clock offset: 7.05 ms
Remote clock offset: -42.862 ms

Below is generated by plot.py at 2019-12-11 13:36:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 375.05 Mbit/s
95th percentile per-packet one-way delay: 219.953 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 375.05 Mbit/s
95th percentile per-packet one-way delay: 219.953 ms
Loss rate: 0.94%

Run 3: Report of FillP — Data Link

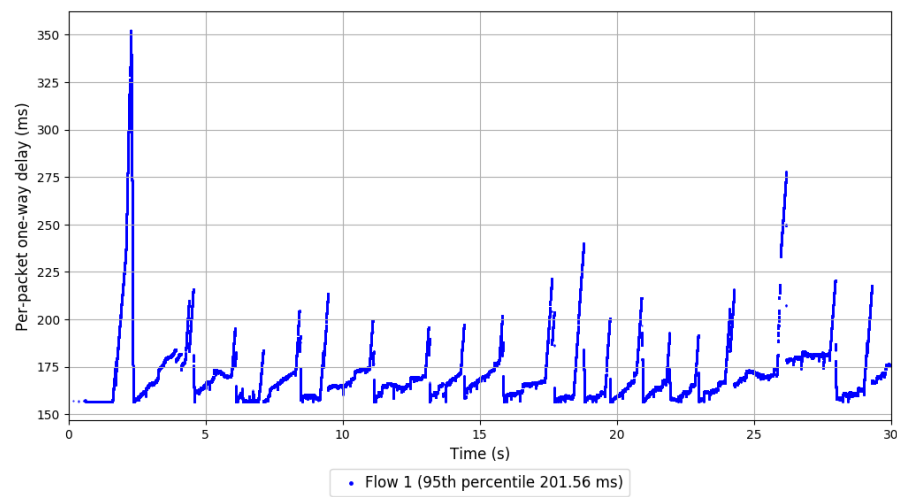
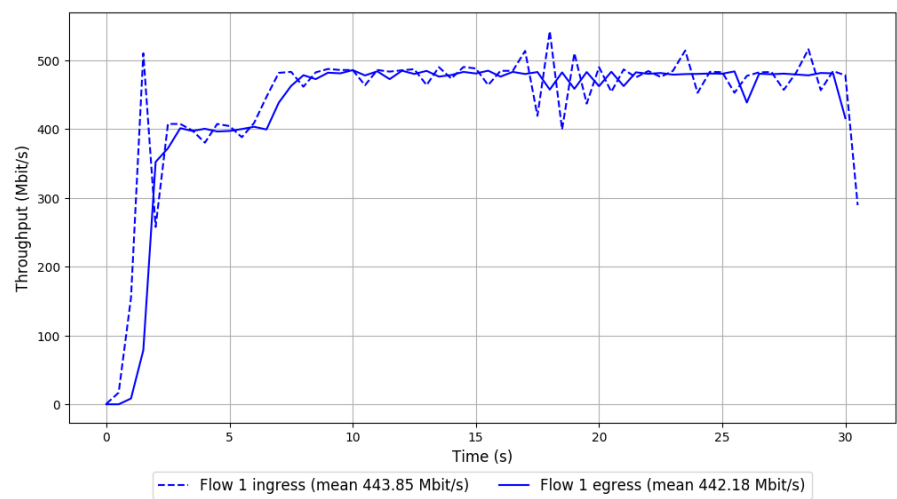


Run 4: Statistics of FillP

Start at: 2019-12-11 12:36:36
End at: 2019-12-11 12:37:06
Local clock offset: 5.027 ms
Remote clock offset: -54.069 ms

Below is generated by plot.py at 2019-12-11 13:37:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 442.18 Mbit/s
95th percentile per-packet one-way delay: 201.565 ms
Loss rate: 3.71%
-- Flow 1:
Average throughput: 442.18 Mbit/s
95th percentile per-packet one-way delay: 201.565 ms
Loss rate: 3.71%

Run 4: Report of FillP — Data Link

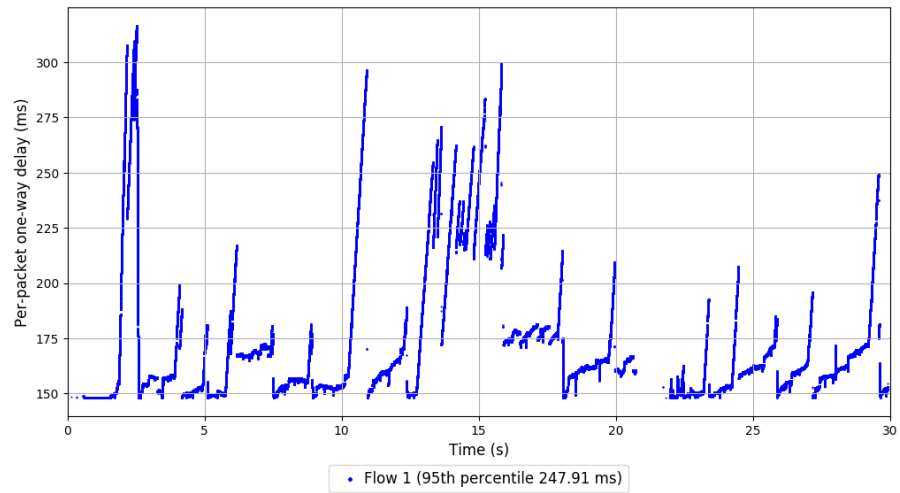
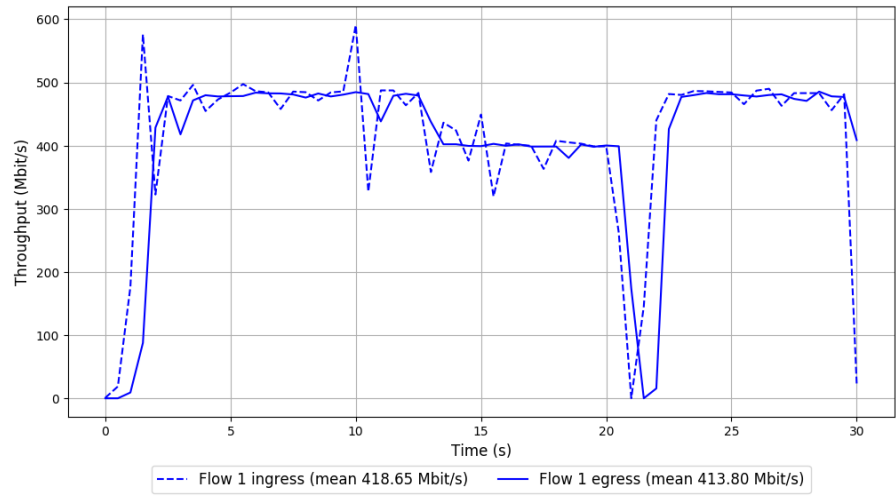


Run 5: Statistics of FillP

Start at: 2019-12-11 13:08:15
End at: 2019-12-11 13:08:45
Local clock offset: 3.999 ms
Remote clock offset: -46.361 ms

Below is generated by plot.py at 2019-12-11 13:37:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 413.80 Mbit/s
95th percentile per-packet one-way delay: 247.912 ms
Loss rate: 1.96%
-- Flow 1:
Average throughput: 413.80 Mbit/s
95th percentile per-packet one-way delay: 247.912 ms
Loss rate: 1.96%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-12-11 11:15:41

End at: 2019-12-11 11:16:12

Local clock offset: 5.468 ms

Remote clock offset: -48.703 ms

Below is generated by plot.py at 2019-12-11 13:37:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 435.24 Mbit/s

95th percentile per-packet one-way delay: 224.297 ms

Loss rate: 0.76%

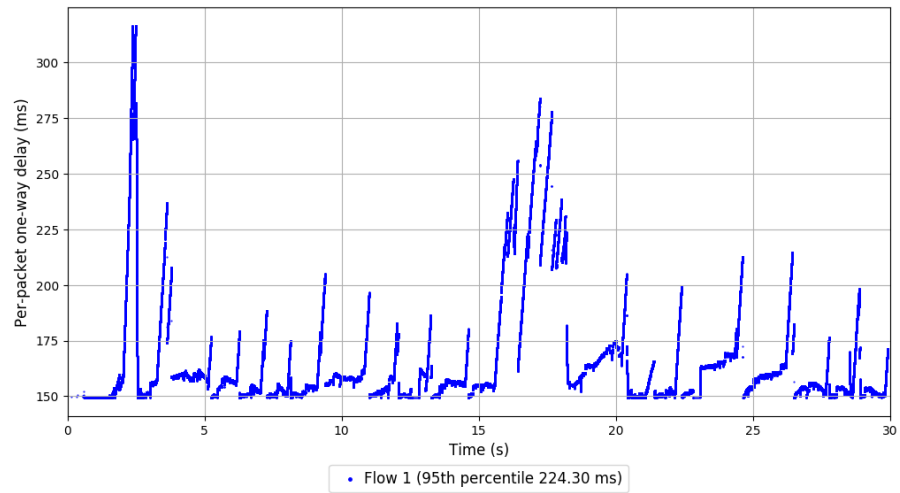
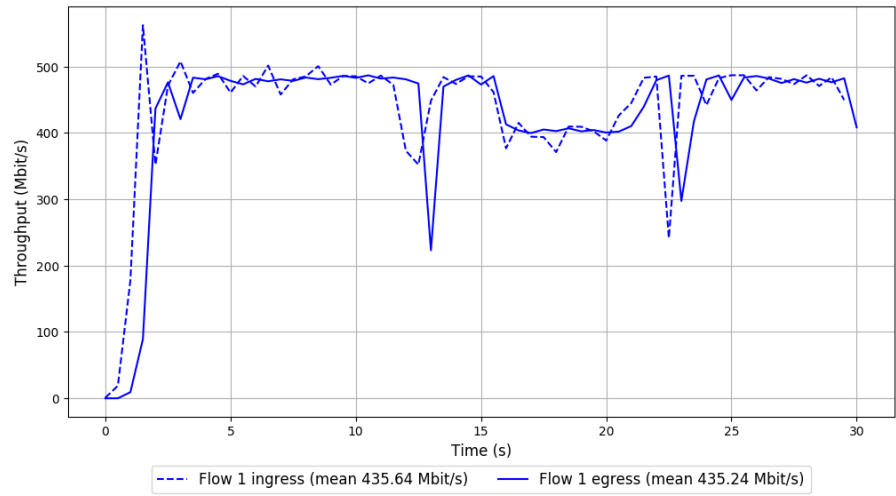
-- Flow 1:

Average throughput: 435.24 Mbit/s

95th percentile per-packet one-way delay: 224.297 ms

Loss rate: 0.76%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-12-11 11:47:01

End at: 2019-12-11 11:47:31

Local clock offset: 6.89 ms

Remote clock offset: -35.973 ms

Below is generated by plot.py at 2019-12-11 13:39:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 375.69 Mbit/s

95th percentile per-packet one-way delay: 197.846 ms

Loss rate: 0.78%

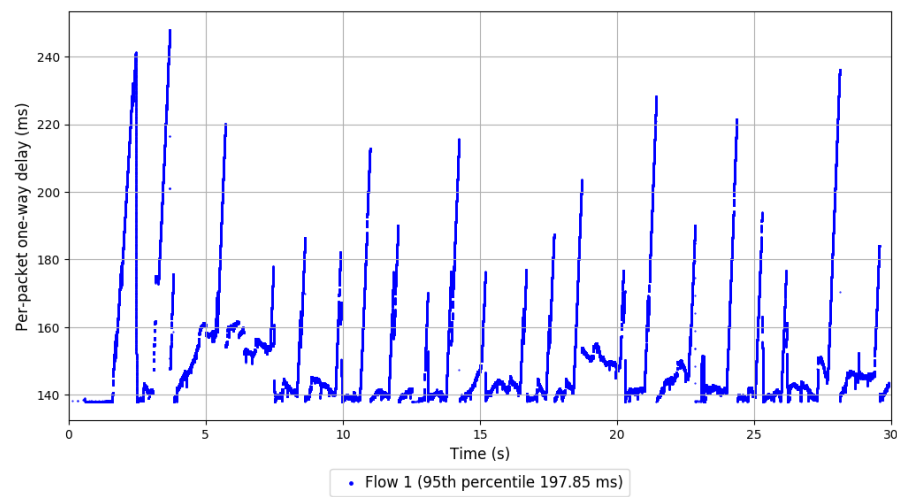
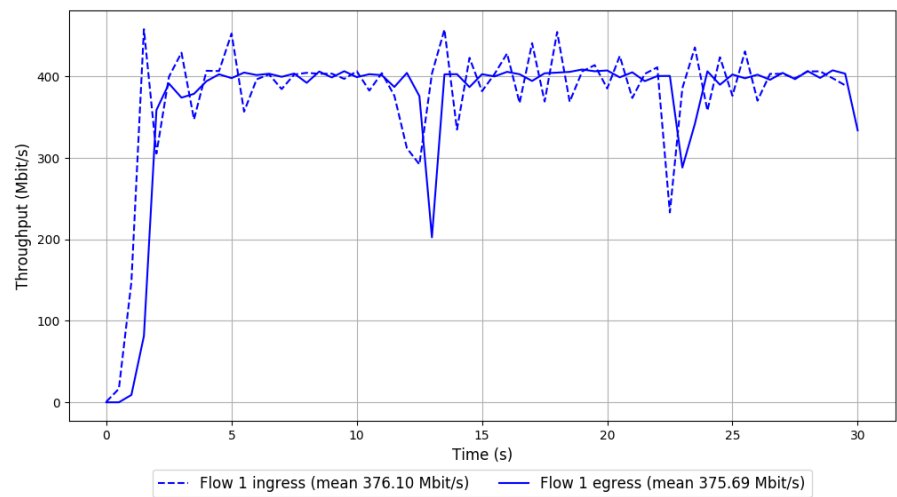
-- Flow 1:

Average throughput: 375.69 Mbit/s

95th percentile per-packet one-way delay: 197.846 ms

Loss rate: 0.78%

Run 2: Report of FillP-Sheep — Data Link

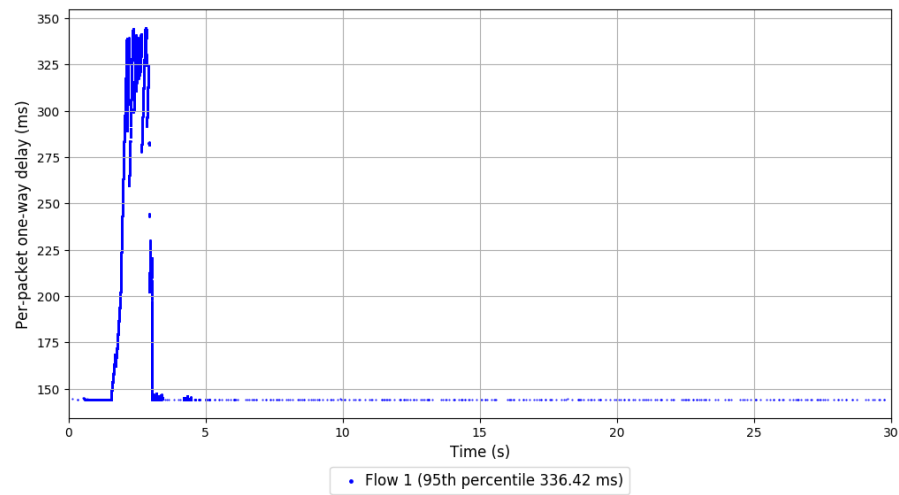
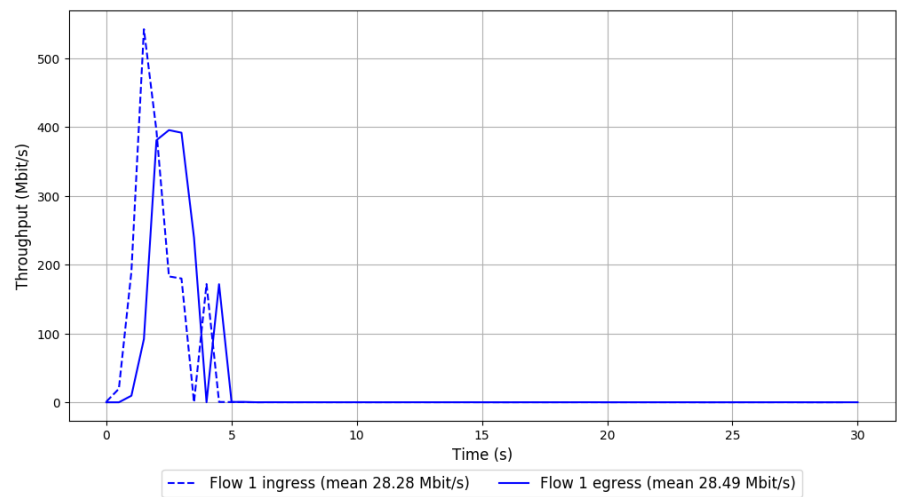


Run 3: Statistics of FillP-Sheep

Start at: 2019-12-11 12:18:26
End at: 2019-12-11 12:18:56
Local clock offset: 6.01 ms
Remote clock offset: -45.588 ms

Below is generated by plot.py at 2019-12-11 13:39:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 28.49 Mbit/s
95th percentile per-packet one-way delay: 336.417 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 28.49 Mbit/s
95th percentile per-packet one-way delay: 336.417 ms
Loss rate: 0.07%

Run 3: Report of FillP-Sheep — Data Link

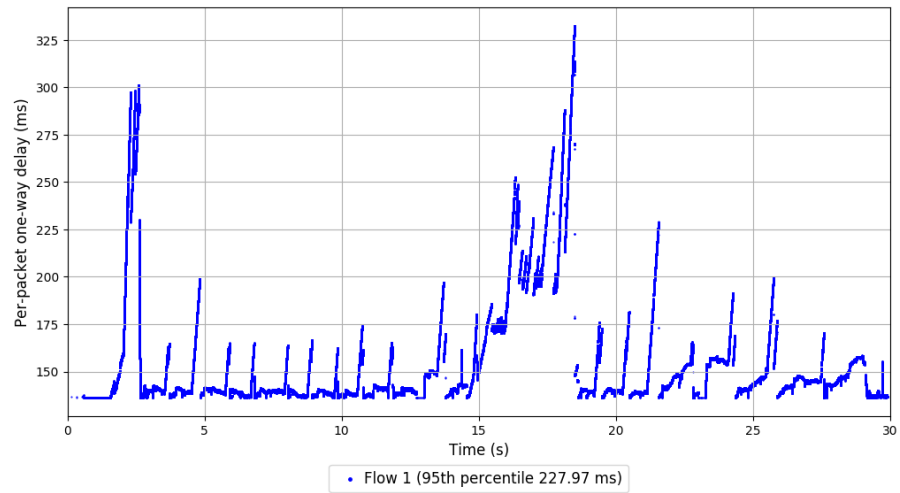
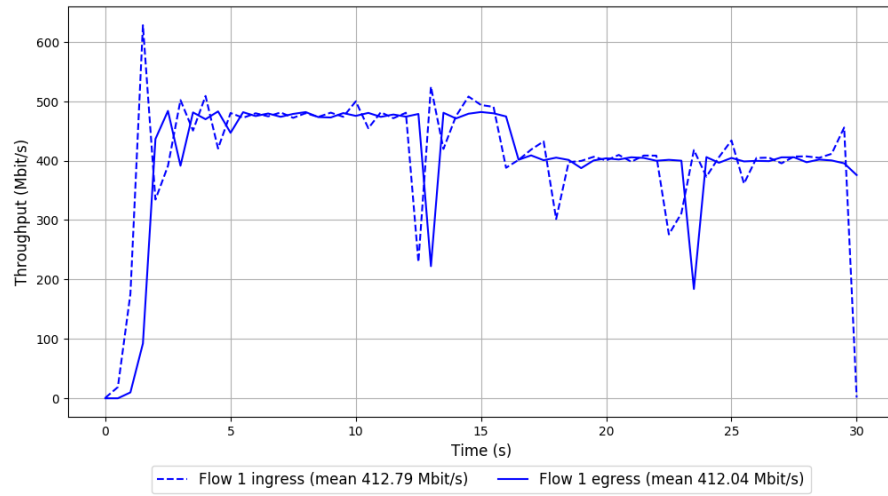


Run 4: Statistics of FillP-Sheep

Start at: 2019-12-11 12:49:51
End at: 2019-12-11 12:50:21
Local clock offset: 3.193 ms
Remote clock offset: -35.344 ms

Below is generated by plot.py at 2019-12-11 13:41:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 412.04 Mbit/s
95th percentile per-packet one-way delay: 227.970 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 412.04 Mbit/s
95th percentile per-packet one-way delay: 227.970 ms
Loss rate: 0.96%

Run 4: Report of FillP-Sheep — Data Link

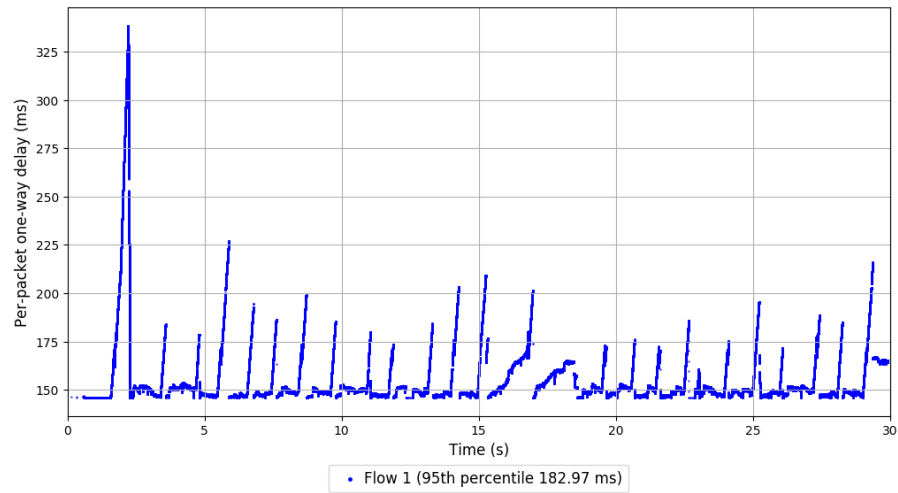
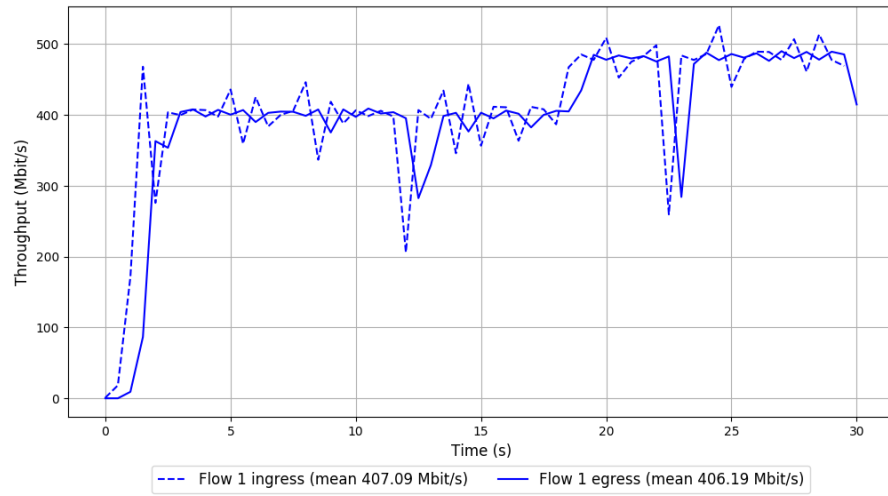


Run 5: Statistics of FillP-Sheep

Start at: 2019-12-11 13:21:22
End at: 2019-12-11 13:21:52
Local clock offset: 4.773 ms
Remote clock offset: -43.583 ms

Below is generated by plot.py at 2019-12-11 13:42:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 406.19 Mbit/s
95th percentile per-packet one-way delay: 182.975 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 406.19 Mbit/s
95th percentile per-packet one-way delay: 182.975 ms
Loss rate: 0.89%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-12-11 11:09:33

End at: 2019-12-11 11:10:03

Local clock offset: 5.141 ms

Remote clock offset: -48.51 ms

Below is generated by plot.py at 2019-12-11 13:42:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.86 Mbit/s

95th percentile per-packet one-way delay: 149.856 ms

Loss rate: 0.76%

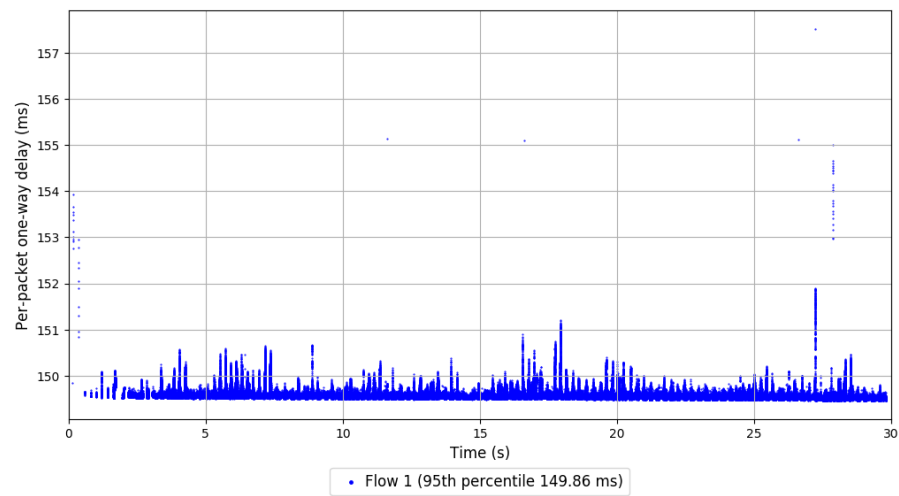
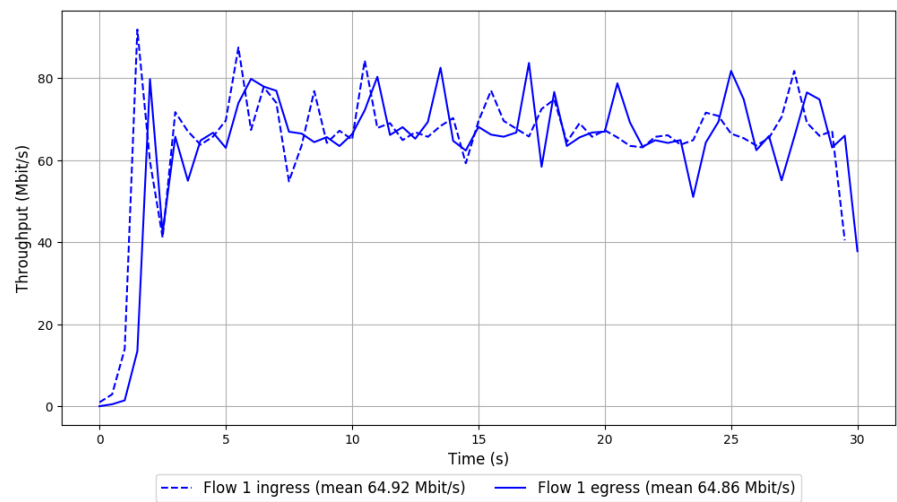
-- Flow 1:

Average throughput: 64.86 Mbit/s

95th percentile per-packet one-way delay: 149.856 ms

Loss rate: 0.76%

Run 1: Report of Indigo — Data Link

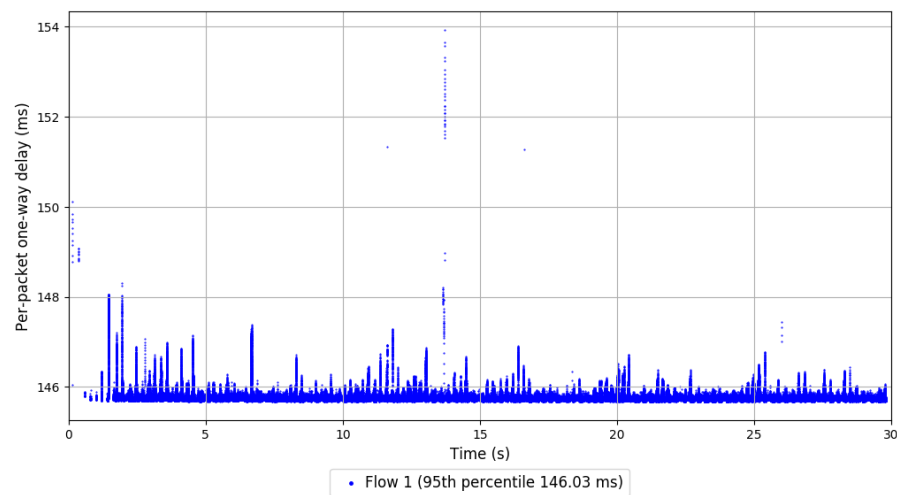
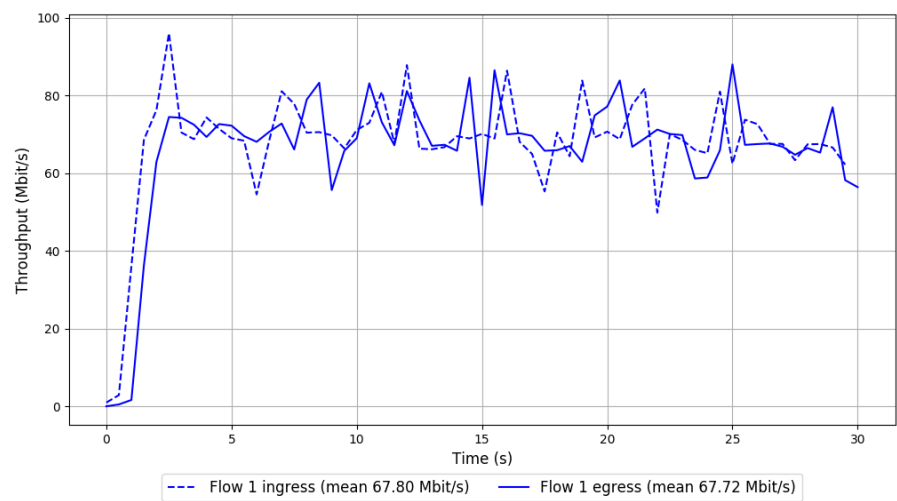


Run 2: Statistics of Indigo

Start at: 2019-12-11 11:40:51
End at: 2019-12-11 11:41:21
Local clock offset: 6.301 ms
Remote clock offset: -44.187 ms

Below is generated by plot.py at 2019-12-11 13:42:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 67.72 Mbit/s
95th percentile per-packet one-way delay: 146.032 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 67.72 Mbit/s
95th percentile per-packet one-way delay: 146.032 ms
Loss rate: 0.78%

Run 2: Report of Indigo — Data Link

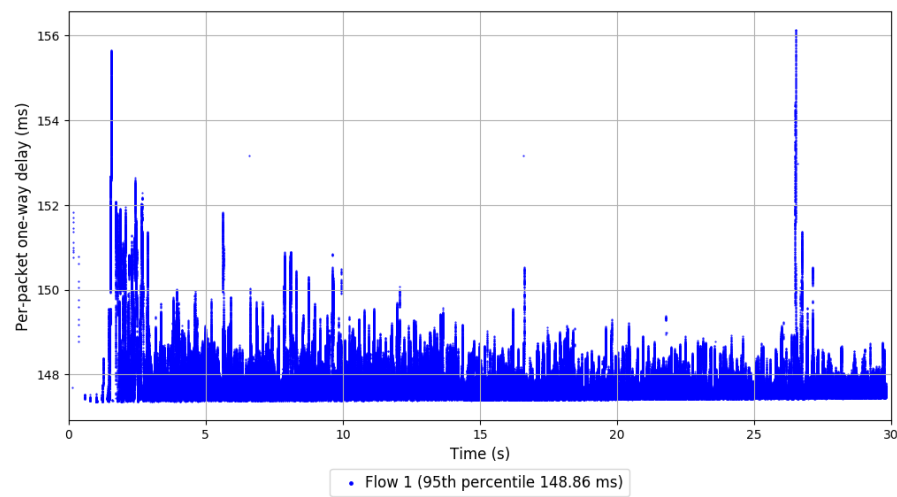
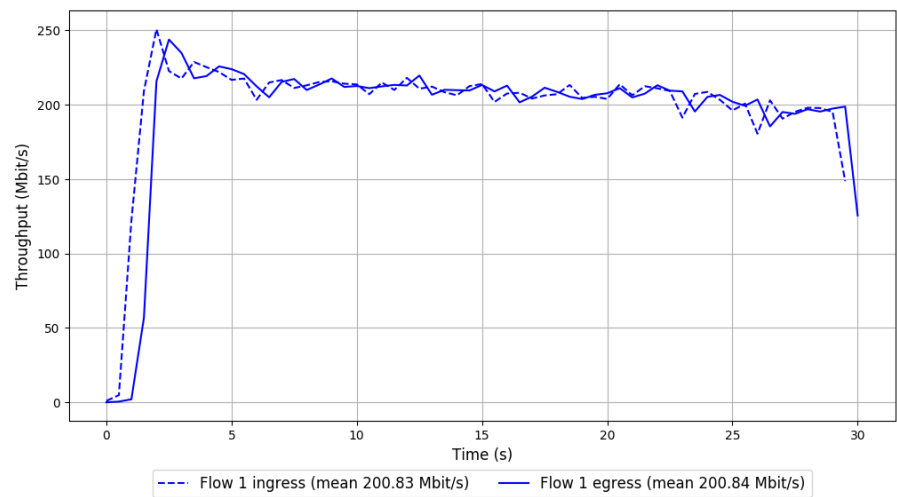


Run 3: Statistics of Indigo

Start at: 2019-12-11 12:12:08
End at: 2019-12-11 12:12:38
Local clock offset: 6.114 ms
Remote clock offset: -45.245 ms

Below is generated by plot.py at 2019-12-11 13:42:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 200.84 Mbit/s
95th percentile per-packet one-way delay: 148.862 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 200.84 Mbit/s
95th percentile per-packet one-way delay: 148.862 ms
Loss rate: 0.65%

Run 3: Report of Indigo — Data Link

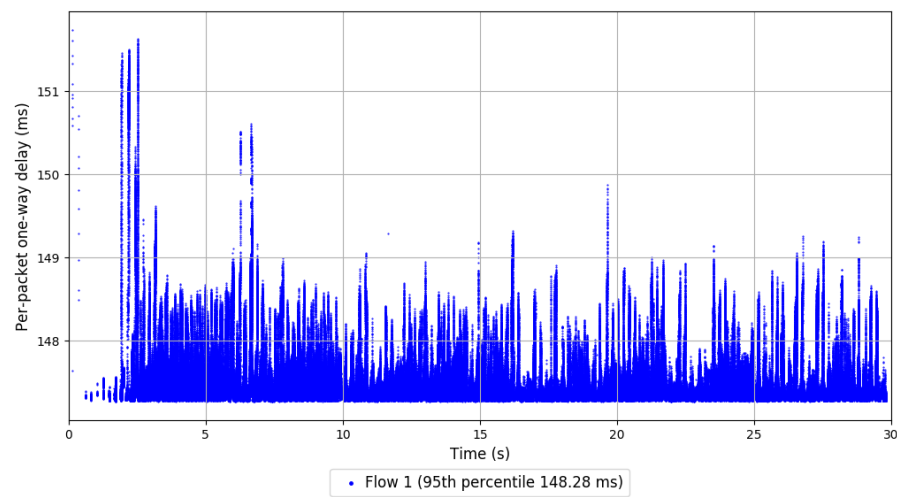
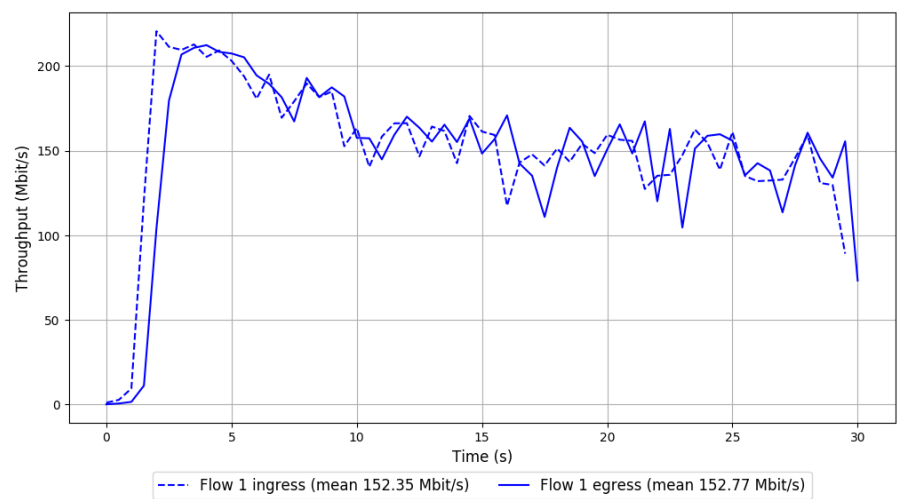


Run 4: Statistics of Indigo

Start at: 2019-12-11 12:43:32
End at: 2019-12-11 12:44:02
Local clock offset: 3.965 ms
Remote clock offset: -45.601 ms

Below is generated by plot.py at 2019-12-11 13:42:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 152.77 Mbit/s
95th percentile per-packet one-way delay: 148.278 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 152.77 Mbit/s
95th percentile per-packet one-way delay: 148.278 ms
Loss rate: 0.39%

Run 4: Report of Indigo — Data Link

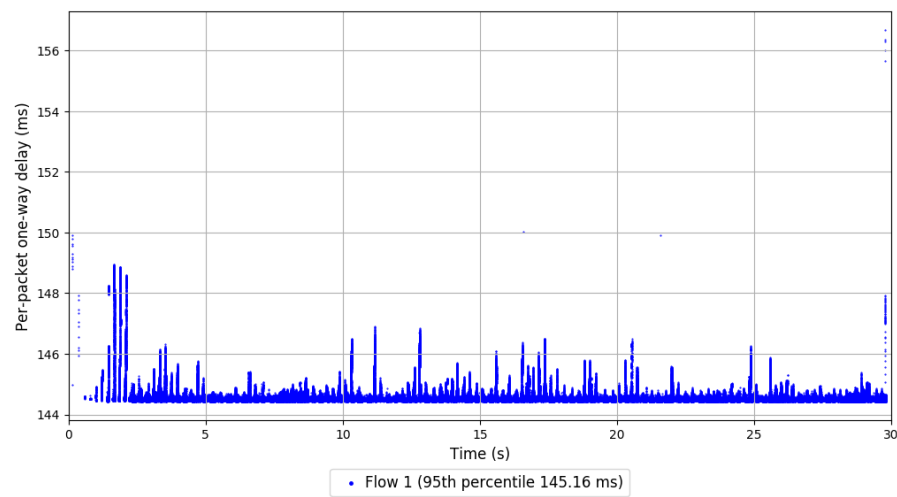
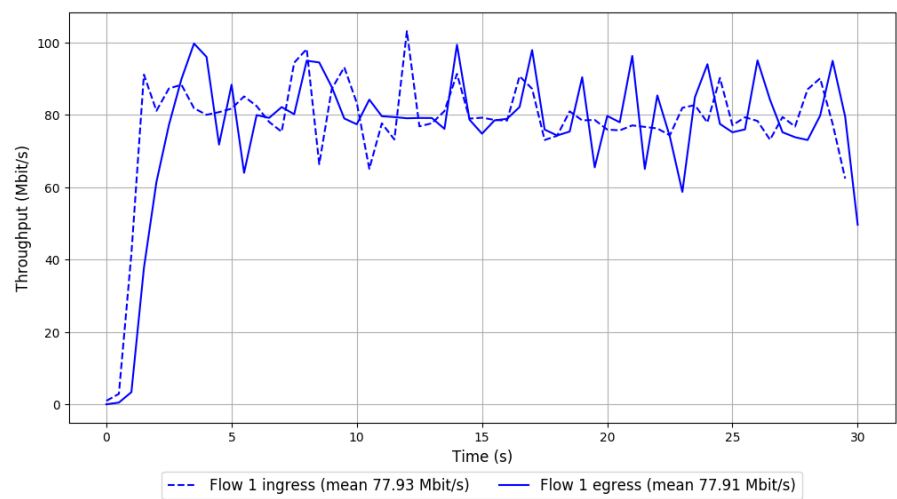


Run 5: Statistics of Indigo

Start at: 2019-12-11 13:15:10
End at: 2019-12-11 13:15:40
Local clock offset: 3.689 ms
Remote clock offset: -42.969 ms

Below is generated by plot.py at 2019-12-11 13:42:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.91 Mbit/s
95th percentile per-packet one-way delay: 145.156 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 77.91 Mbit/s
95th percentile per-packet one-way delay: 145.156 ms
Loss rate: 0.69%

Run 5: Report of Indigo — Data Link

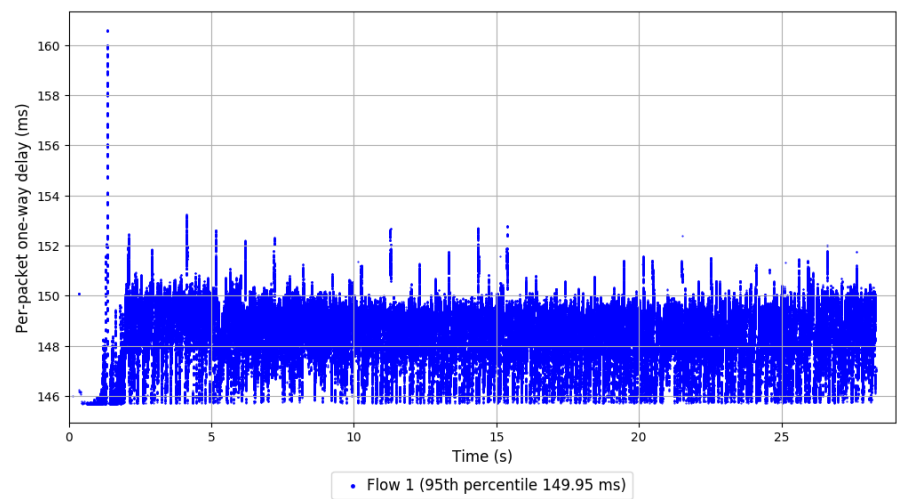
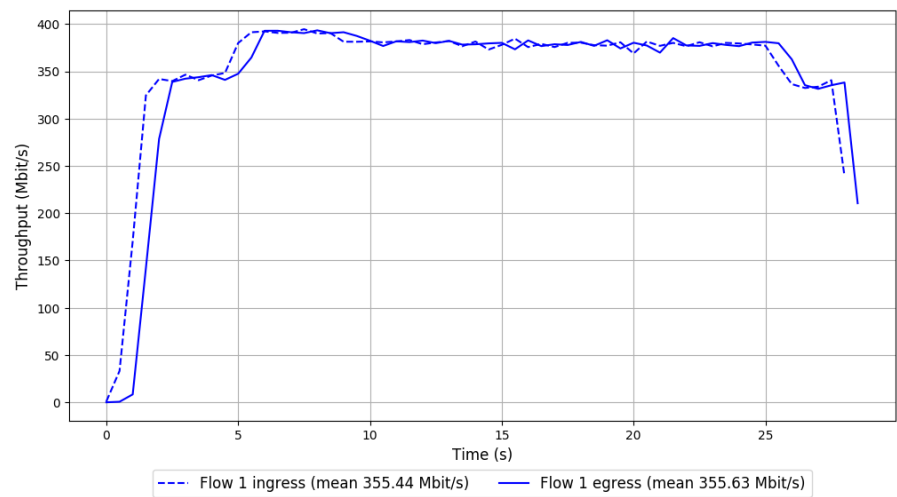


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-12-11 10:49:12
End at: 2019-12-11 10:49:42
Local clock offset: 5.905 ms
Remote clock offset: -45.154 ms

Below is generated by plot.py at 2019-12-11 13:42:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 355.63 Mbit/s
95th percentile per-packet one-way delay: 149.951 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 355.63 Mbit/s
95th percentile per-packet one-way delay: 149.951 ms
Loss rate: 0.65%

Run 1: Report of Indigo-MusesC3 — Data Link

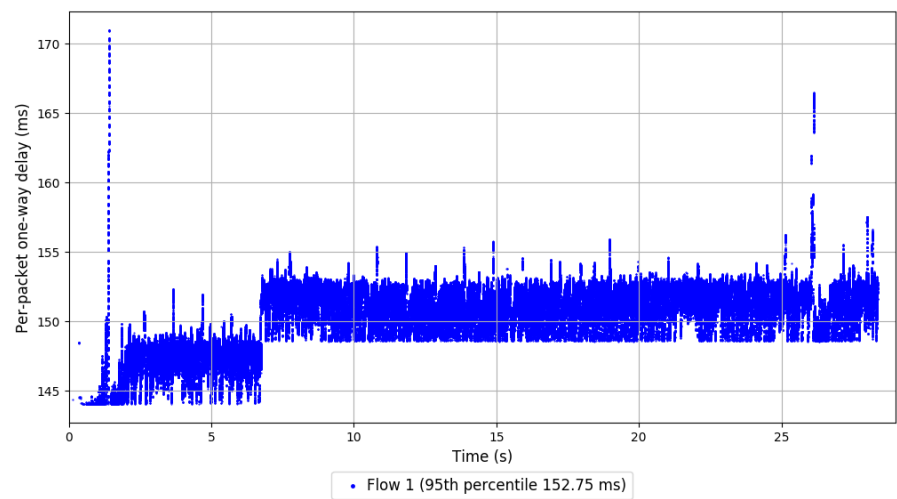
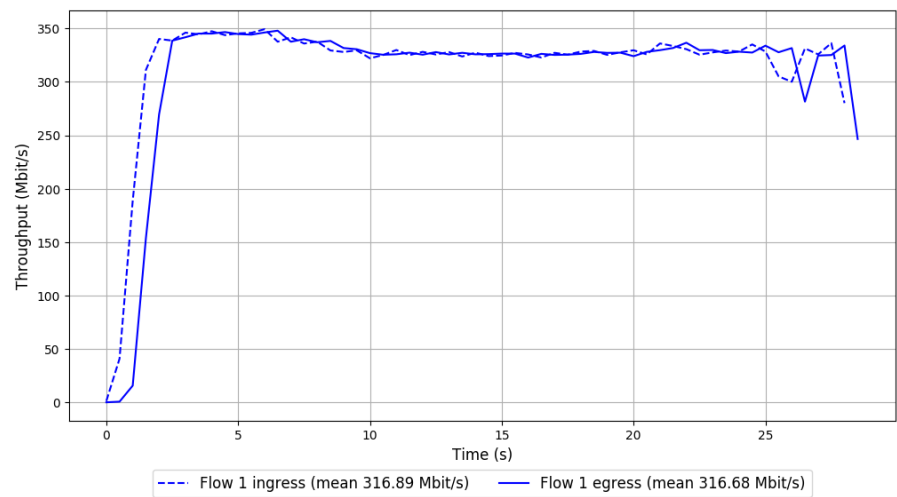


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-12-11 11:20:38
End at: 2019-12-11 11:21:08
Local clock offset: 5.551 ms
Remote clock offset: -47.937 ms

Below is generated by plot.py at 2019-12-11 13:42:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 316.68 Mbit/s
95th percentile per-packet one-way delay: 152.755 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 316.68 Mbit/s
95th percentile per-packet one-way delay: 152.755 ms
Loss rate: 0.76%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-12-11 11:51:56

End at: 2019-12-11 11:52:26

Local clock offset: 6.868 ms

Remote clock offset: -36.8 ms

Below is generated by plot.py at 2019-12-11 13:42:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 345.79 Mbit/s

95th percentile per-packet one-way delay: 143.125 ms

Loss rate: 0.79%

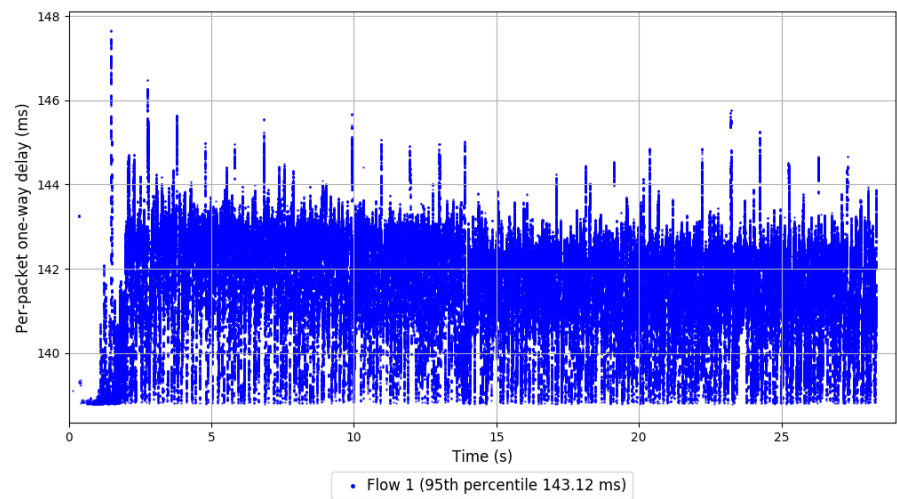
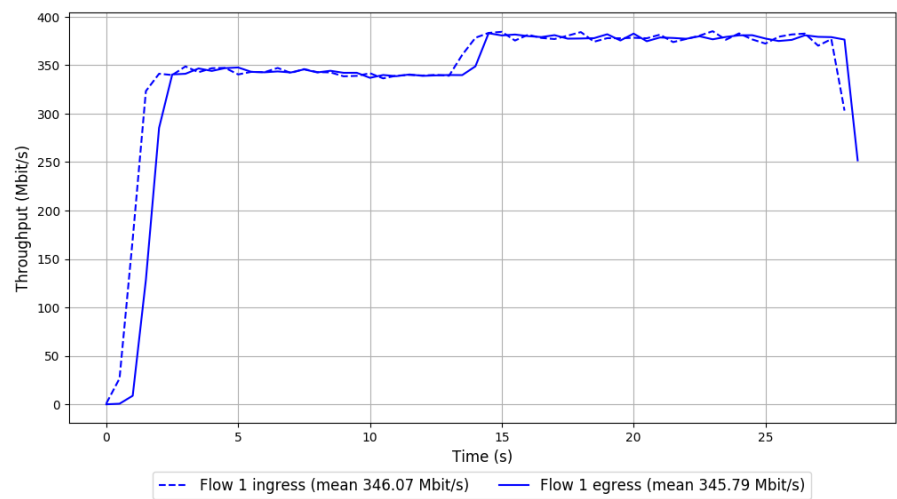
-- Flow 1:

Average throughput: 345.79 Mbit/s

95th percentile per-packet one-way delay: 143.125 ms

Loss rate: 0.79%

Run 3: Report of Indigo-MusesC3 — Data Link

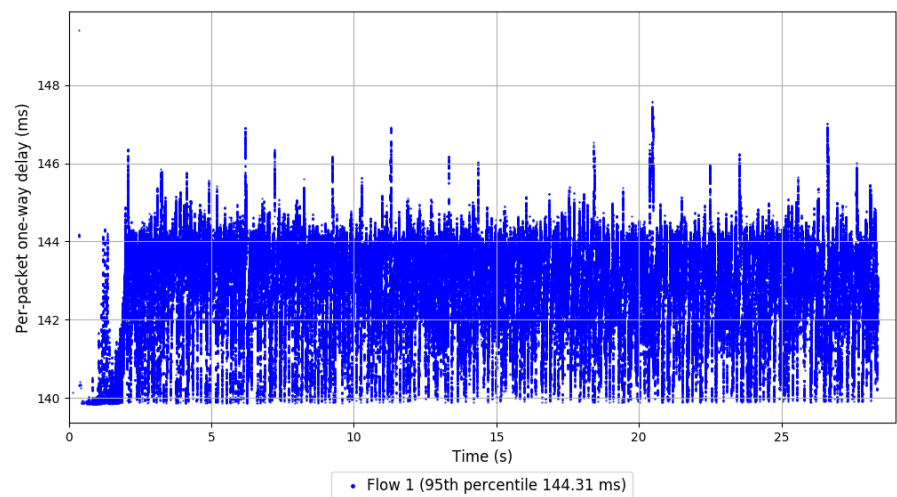
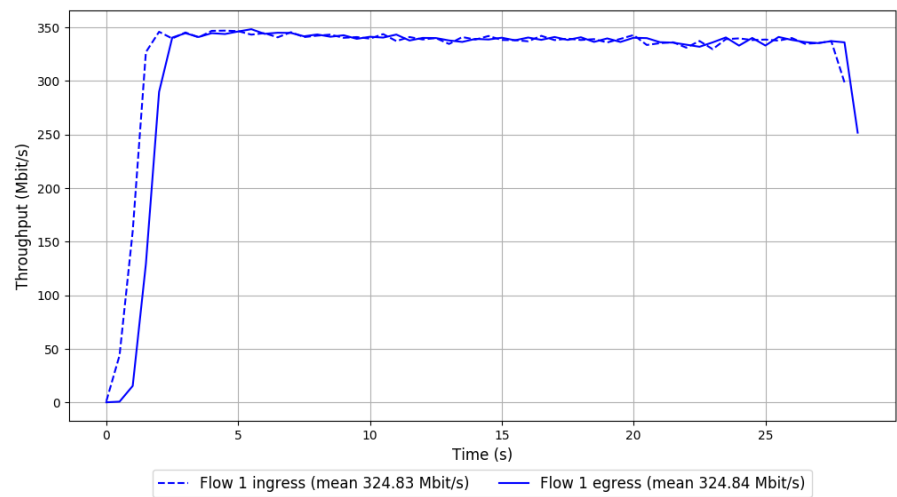


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-12-11 12:23:09
End at: 2019-12-11 12:23:39
Local clock offset: 5.272 ms
Remote clock offset: -37.273 ms

Below is generated by plot.py at 2019-12-11 13:43:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 324.84 Mbit/s
95th percentile per-packet one-way delay: 144.308 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 324.84 Mbit/s
95th percentile per-packet one-way delay: 144.308 ms
Loss rate: 0.78%

Run 4: Report of Indigo-MusesC3 — Data Link

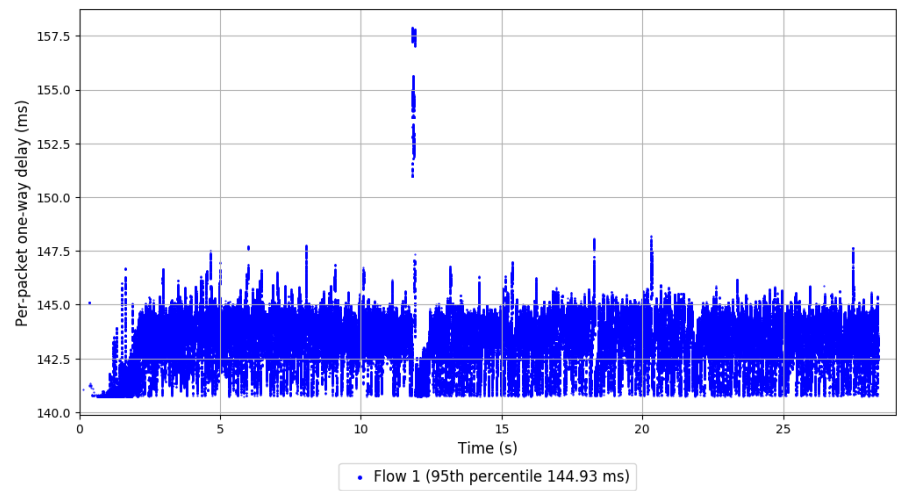
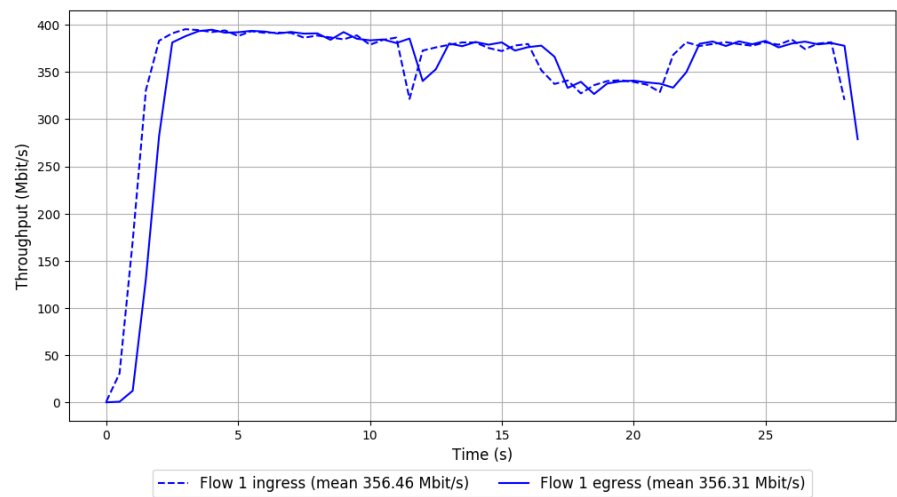


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-12-11 12:54:48
End at: 2019-12-11 12:55:18
Local clock offset: 4.137 ms
Remote clock offset: -38.93 ms

Below is generated by plot.py at 2019-12-11 13:43:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 356.31 Mbit/s
95th percentile per-packet one-way delay: 144.932 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 356.31 Mbit/s
95th percentile per-packet one-way delay: 144.932 ms
Loss rate: 0.74%

Run 5: Report of Indigo-MusesC3 — Data Link

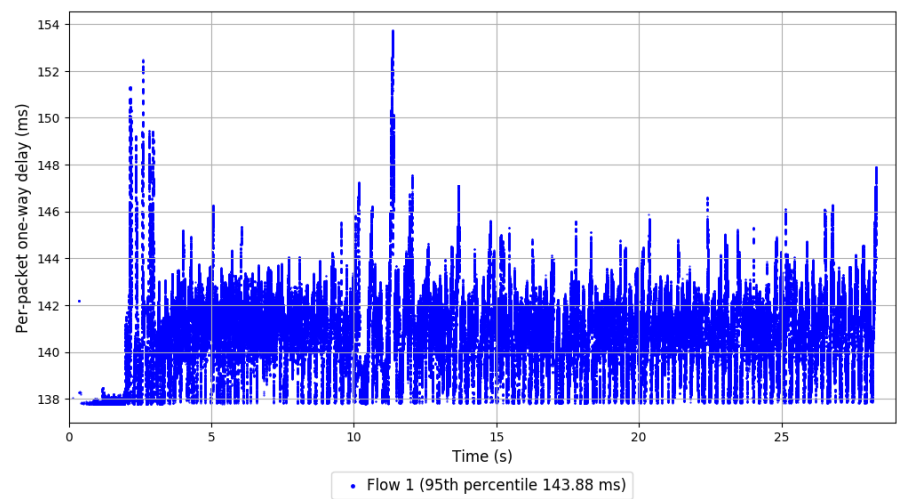
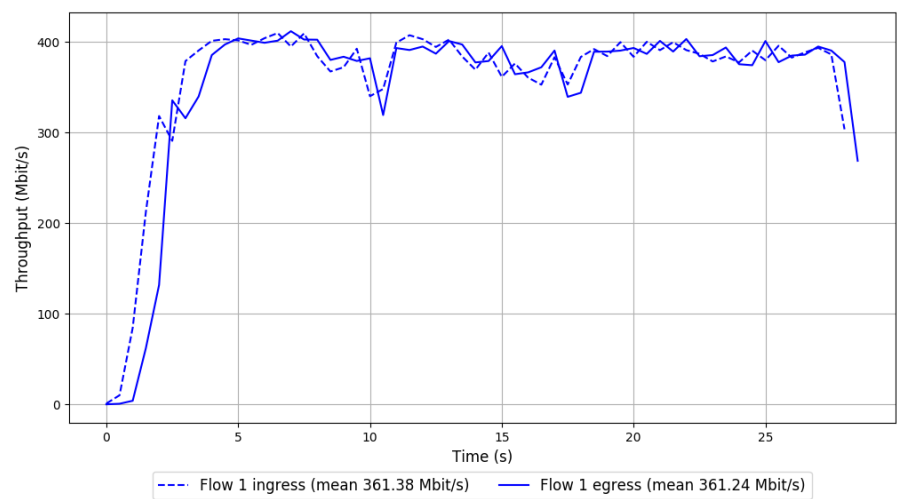


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-12-11 10:58:22
End at: 2019-12-11 10:58:52
Local clock offset: 5.029 ms
Remote clock offset: -41.897 ms

Below is generated by plot.py at 2019-12-11 13:44:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 361.24 Mbit/s
95th percentile per-packet one-way delay: 143.876 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 361.24 Mbit/s
95th percentile per-packet one-way delay: 143.876 ms
Loss rate: 0.73%

Run 1: Report of Indigo-MusesC5 — Data Link

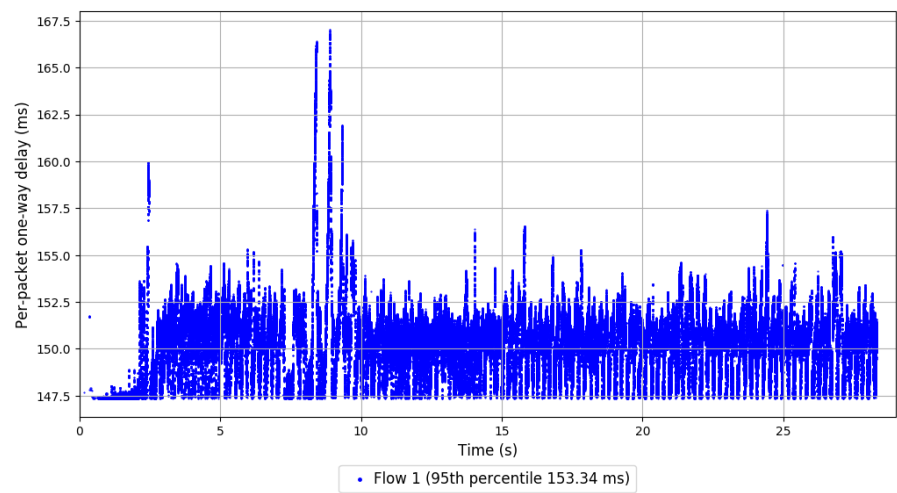
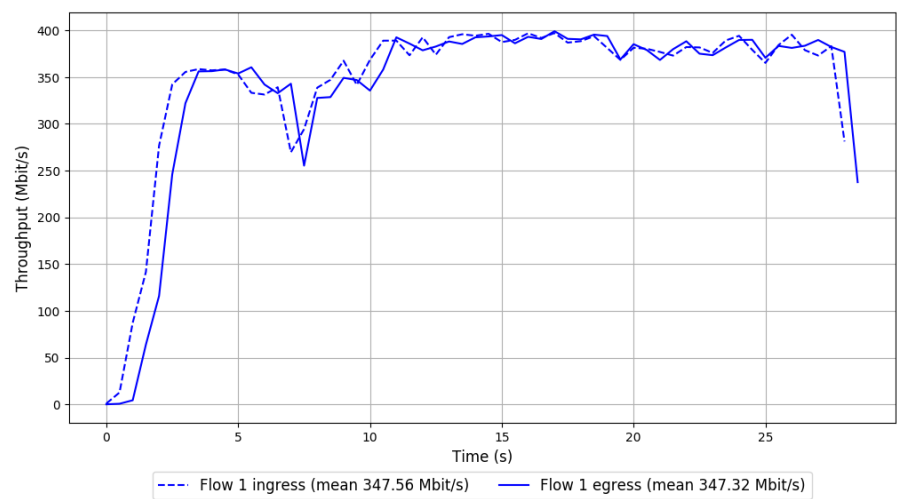


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-12-11 11:29:43
End at: 2019-12-11 11:30:13
Local clock offset: 5.659 ms
Remote clock offset: -46.652 ms

Below is generated by plot.py at 2019-12-11 13:45:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 347.32 Mbit/s
95th percentile per-packet one-way delay: 153.344 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 347.32 Mbit/s
95th percentile per-packet one-way delay: 153.344 ms
Loss rate: 0.77%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-12-11 12:01:02

End at: 2019-12-11 12:01:32

Local clock offset: 7.513 ms

Remote clock offset: -36.0 ms

Below is generated by plot.py at 2019-12-11 13:45:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 338.21 Mbit/s

95th percentile per-packet one-way delay: 145.111 ms

Loss rate: 0.91%

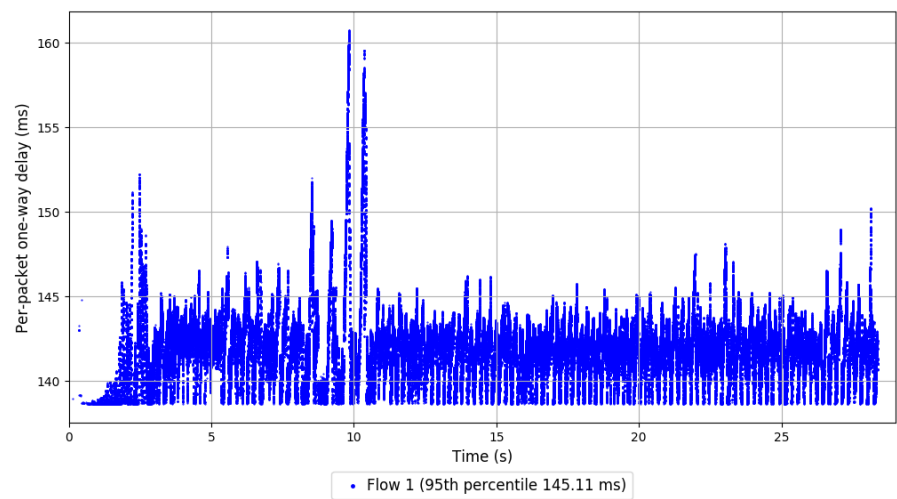
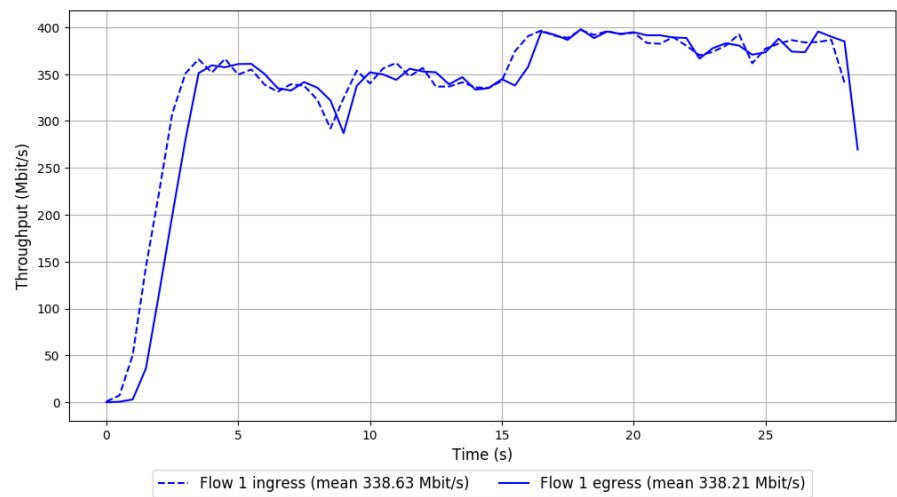
-- Flow 1:

Average throughput: 338.21 Mbit/s

95th percentile per-packet one-way delay: 145.111 ms

Loss rate: 0.91%

Run 3: Report of Indigo-MusesC5 — Data Link

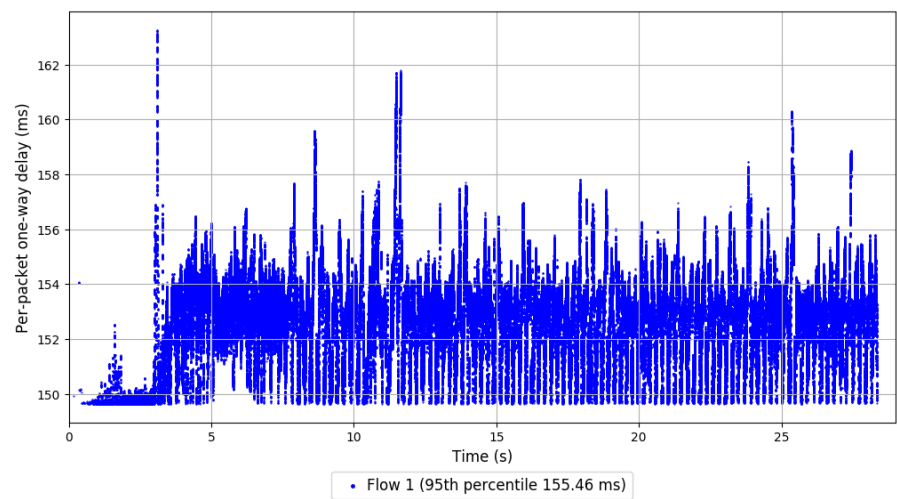
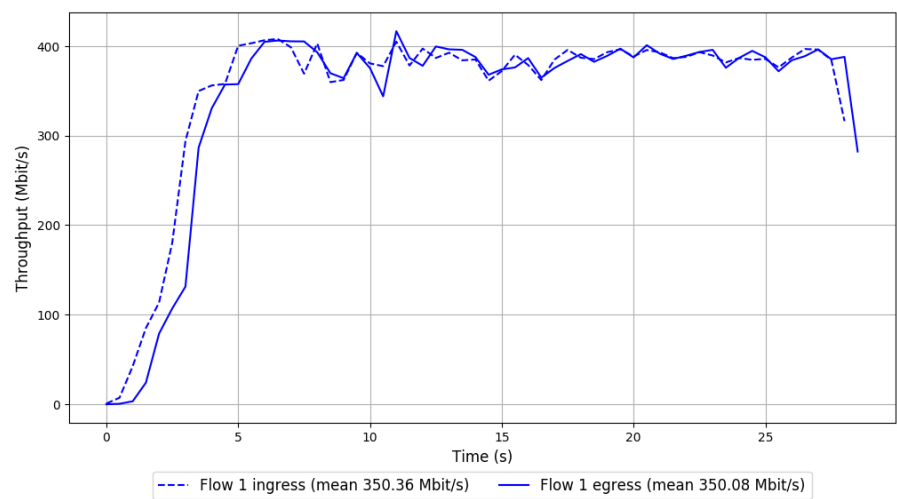


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-12-11 12:32:20
End at: 2019-12-11 12:32:50
Local clock offset: 4.78 ms
Remote clock offset: -47.109 ms

Below is generated by plot.py at 2019-12-11 13:46:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 350.08 Mbit/s
95th percentile per-packet one-way delay: 155.462 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 350.08 Mbit/s
95th percentile per-packet one-way delay: 155.462 ms
Loss rate: 0.79%

Run 4: Report of Indigo-MusesC5 — Data Link

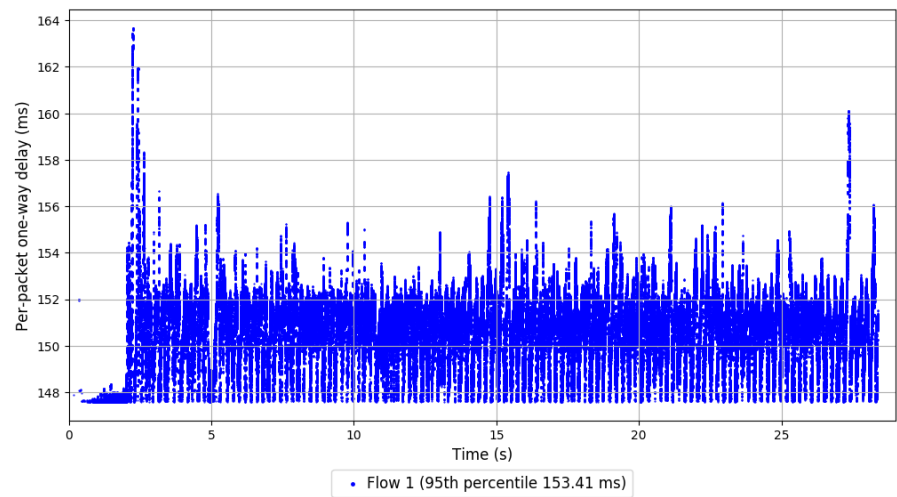
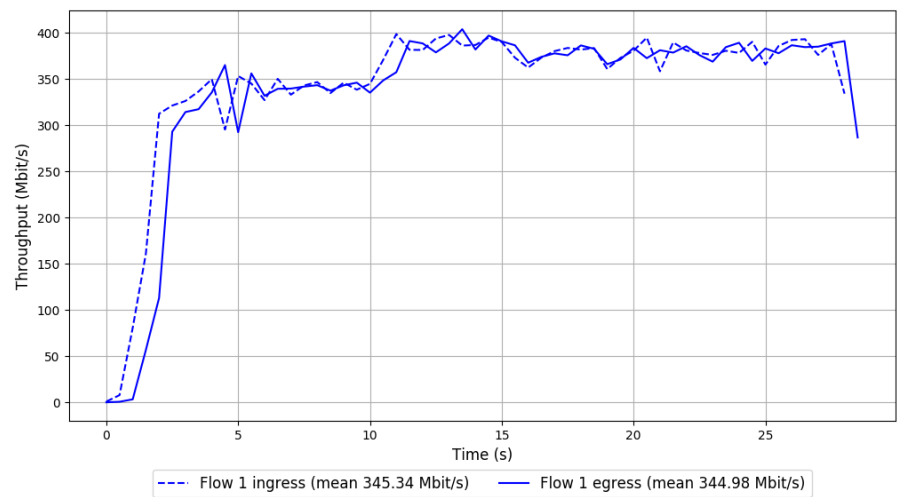


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-12-11 13:03:58
End at: 2019-12-11 13:04:28
Local clock offset: 4.386 ms
Remote clock offset: -45.368 ms

Below is generated by plot.py at 2019-12-11 13:46:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 344.98 Mbit/s
95th percentile per-packet one-way delay: 153.407 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 344.98 Mbit/s
95th percentile per-packet one-way delay: 153.407 ms
Loss rate: 0.80%

Run 5: Report of Indigo-MusesC5 — Data Link

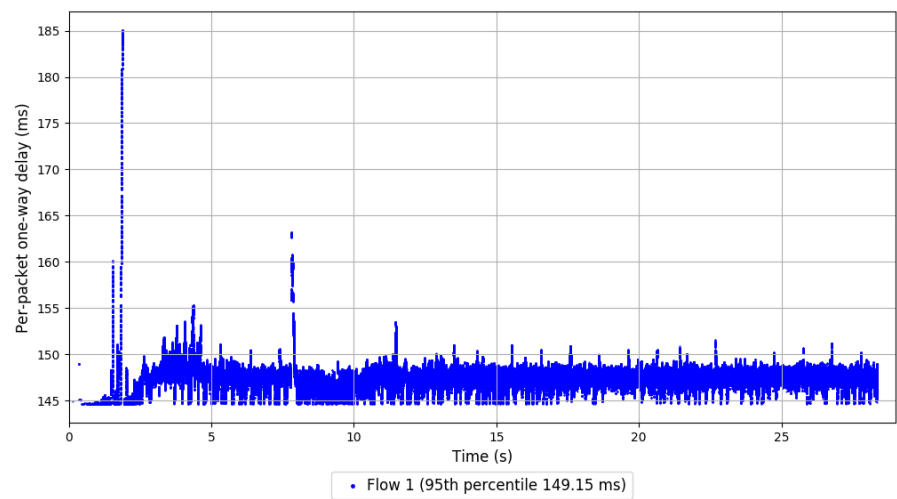
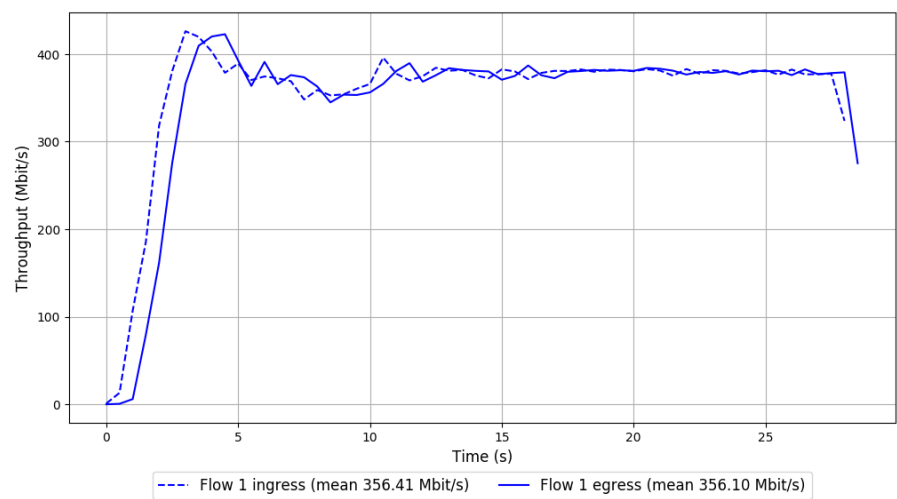


Run 1: Statistics of Indigo-MusesD

Start at: 2019-12-11 10:52:57
End at: 2019-12-11 10:53:27
Local clock offset: 4.451 ms
Remote clock offset: -45.255 ms

Below is generated by plot.py at 2019-12-11 13:46:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 356.10 Mbit/s
95th percentile per-packet one-way delay: 149.149 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 356.10 Mbit/s
95th percentile per-packet one-way delay: 149.149 ms
Loss rate: 0.78%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-12-11 11:24:21

End at: 2019-12-11 11:24:52

Local clock offset: 6.332 ms

Remote clock offset: -40.371 ms

Below is generated by plot.py at 2019-12-11 13:47:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 337.17 Mbit/s

95th percentile per-packet one-way delay: 141.733 ms

Loss rate: 0.83%

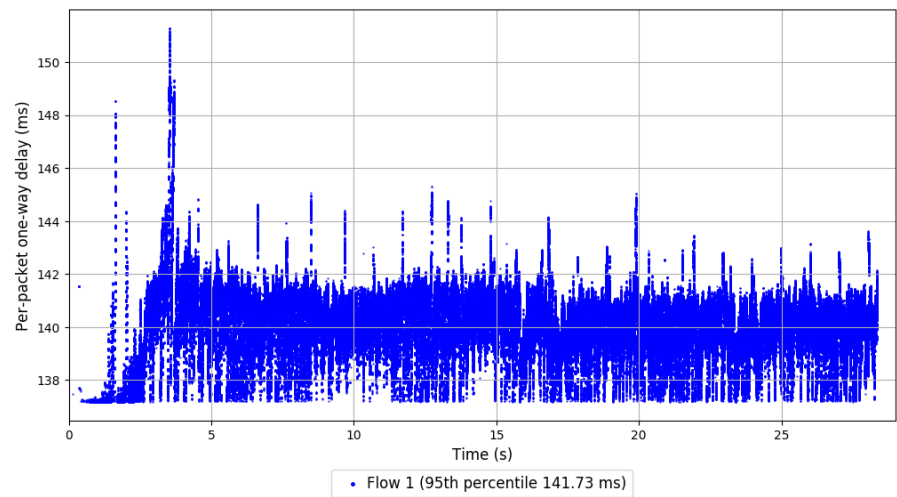
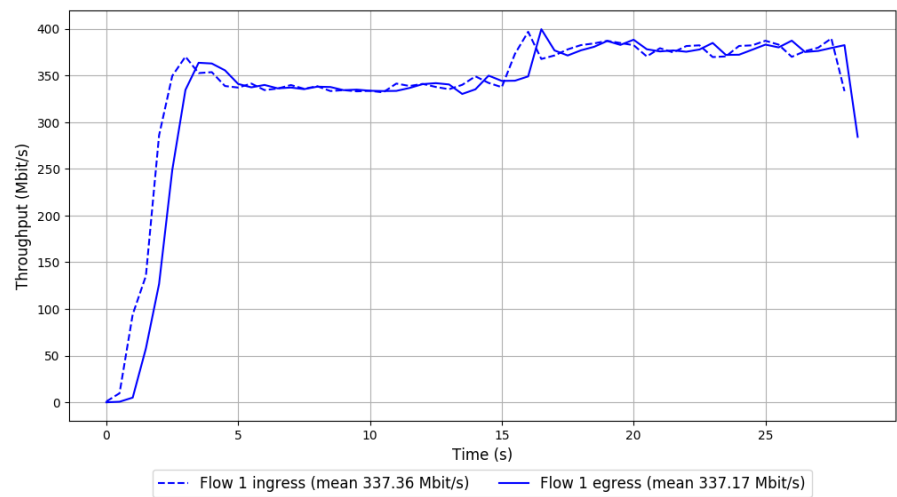
-- Flow 1:

Average throughput: 337.17 Mbit/s

95th percentile per-packet one-way delay: 141.733 ms

Loss rate: 0.83%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-12-11 11:55:41

End at: 2019-12-11 11:56:11

Local clock offset: 7.01 ms

Remote clock offset: -36.657 ms

Below is generated by plot.py at 2019-12-11 13:47:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 337.91 Mbit/s

95th percentile per-packet one-way delay: 143.538 ms

Loss rate: 0.70%

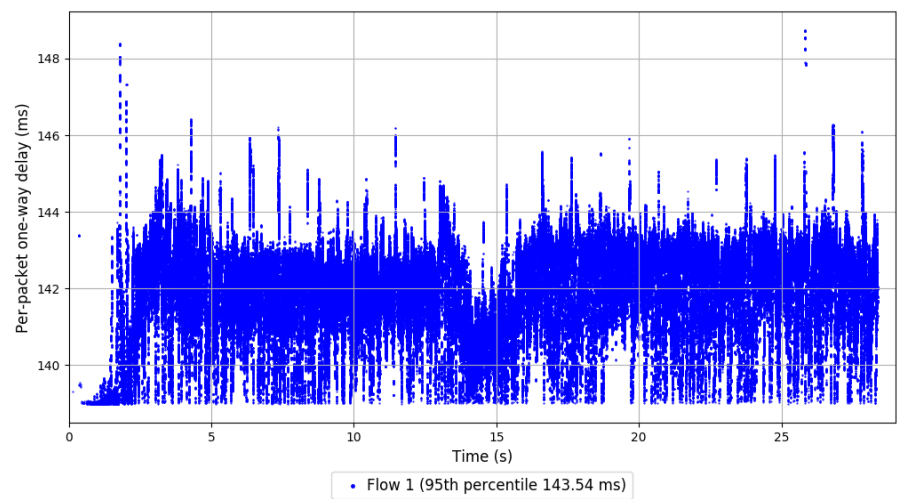
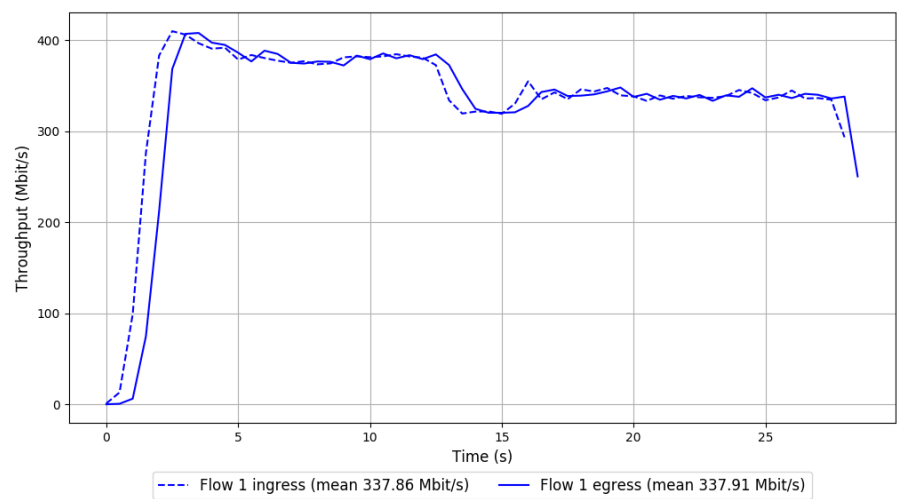
-- Flow 1:

Average throughput: 337.91 Mbit/s

95th percentile per-packet one-way delay: 143.538 ms

Loss rate: 0.70%

Run 3: Report of Indigo-MusesD — Data Link

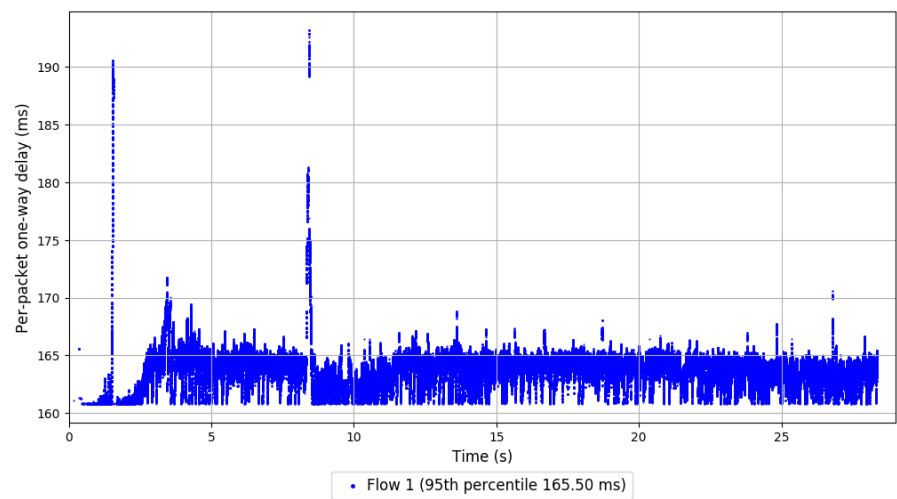
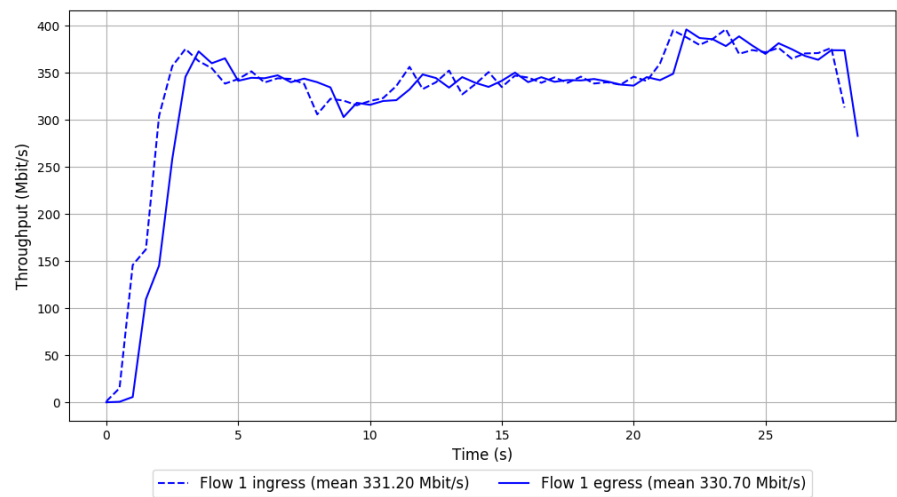


Run 4: Statistics of Indigo-MusesD

Start at: 2019-12-11 12:26:53
End at: 2019-12-11 12:27:23
Local clock offset: 4.917 ms
Remote clock offset: -62.934 ms

Below is generated by plot.py at 2019-12-11 13:47:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 330.70 Mbit/s
95th percentile per-packet one-way delay: 165.498 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 330.70 Mbit/s
95th percentile per-packet one-way delay: 165.498 ms
Loss rate: 0.82%

Run 4: Report of Indigo-MusesD — Data Link

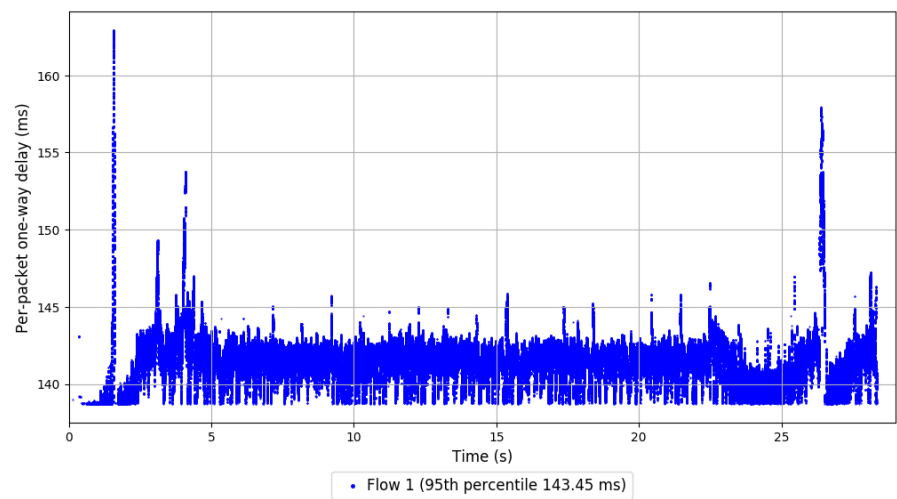
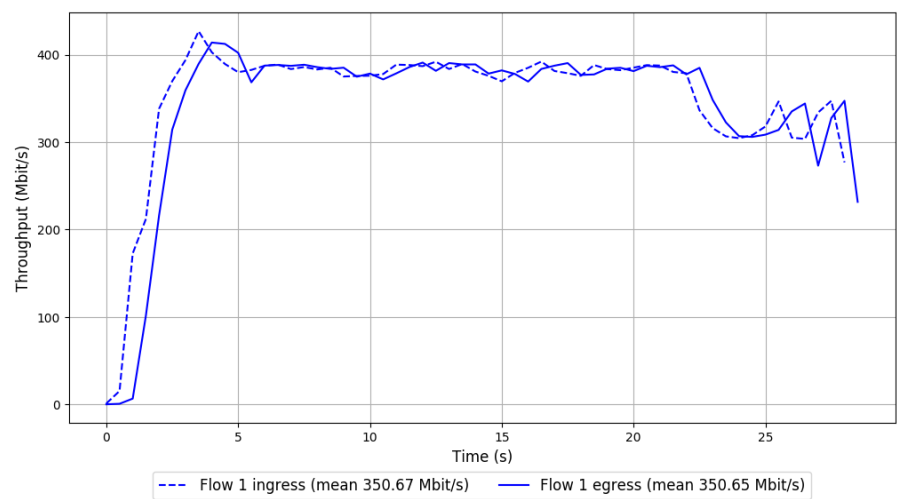


Run 5: Statistics of Indigo-MusesD

Start at: 2019-12-11 12:58:33
End at: 2019-12-11 12:59:03
Local clock offset: 2.117 ms
Remote clock offset: -38.737 ms

Below is generated by plot.py at 2019-12-11 13:49:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 350.65 Mbit/s
95th percentile per-packet one-way delay: 143.454 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 350.65 Mbit/s
95th percentile per-packet one-way delay: 143.454 ms
Loss rate: 0.72%

Run 5: Report of Indigo-MusesD — Data Link

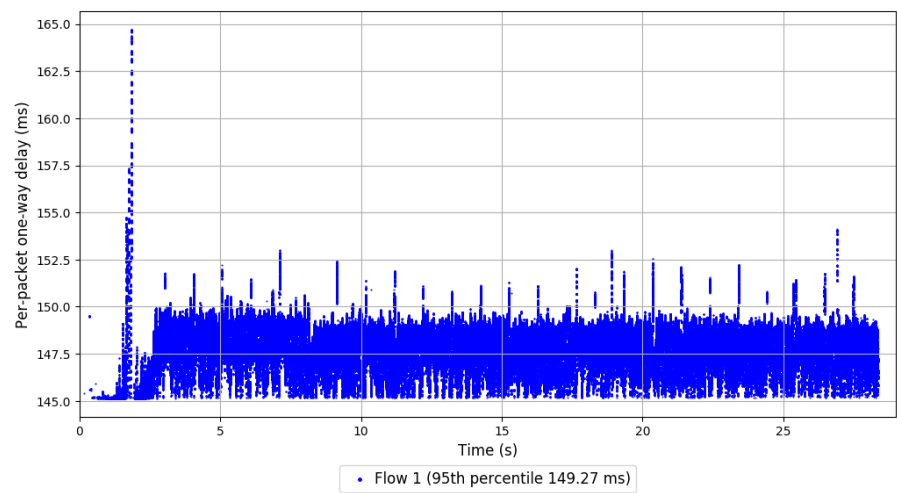
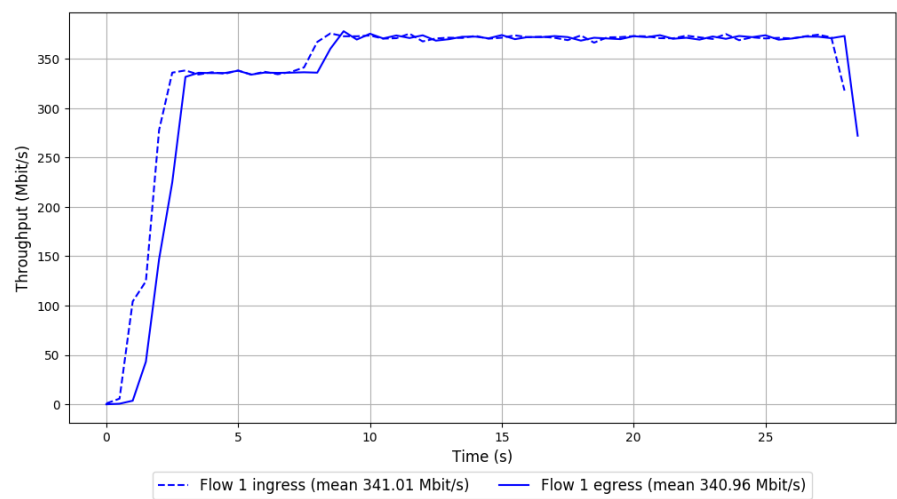


Run 1: Statistics of Indigo-MusesT

Start at: 2019-12-11 10:59:47
End at: 2019-12-11 11:00:17
Local clock offset: 4.883 ms
Remote clock offset: -44.836 ms

Below is generated by plot.py at 2019-12-11 13:49:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 340.96 Mbit/s
95th percentile per-packet one-way delay: 149.272 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 340.96 Mbit/s
95th percentile per-packet one-way delay: 149.272 ms
Loss rate: 0.81%

Run 1: Report of Indigo-MusesT — Data Link

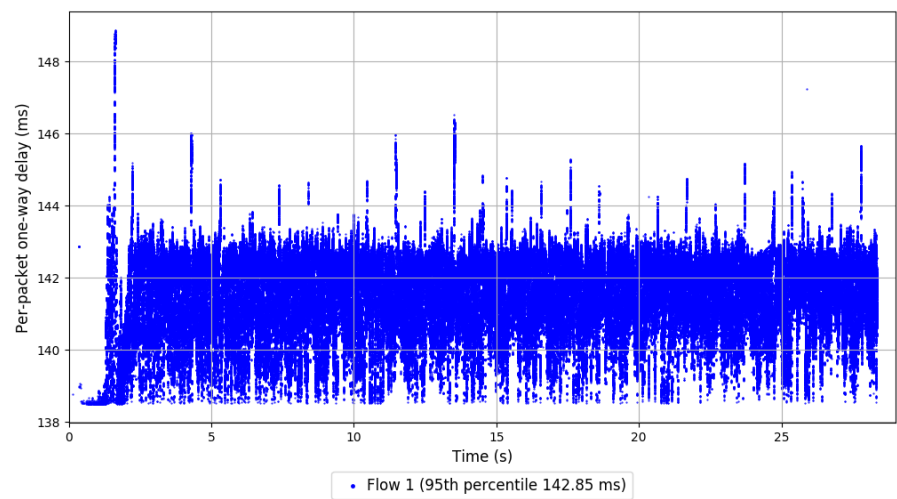
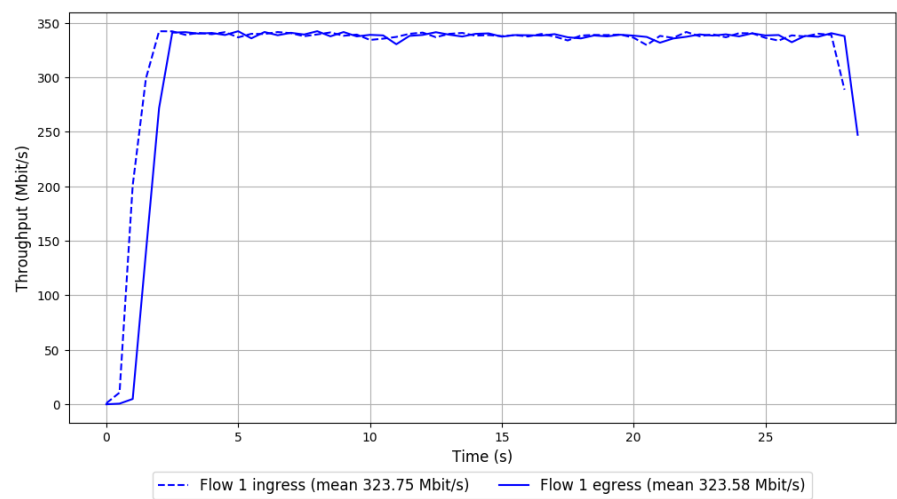


Run 2: Statistics of Indigo-MusesT

Start at: 2019-12-11 11:31:09
End at: 2019-12-11 11:31:39
Local clock offset: 6.109 ms
Remote clock offset: -37.345 ms

Below is generated by plot.py at 2019-12-11 13:49:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 323.58 Mbit/s
95th percentile per-packet one-way delay: 142.849 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 323.58 Mbit/s
95th percentile per-packet one-way delay: 142.849 ms
Loss rate: 0.75%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-12-11 12:02:27

End at: 2019-12-11 12:02:57

Local clock offset: 5.976 ms

Remote clock offset: -39.441 ms

Below is generated by plot.py at 2019-12-11 13:50:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 341.41 Mbit/s

95th percentile per-packet one-way delay: 144.637 ms

Loss rate: 0.79%

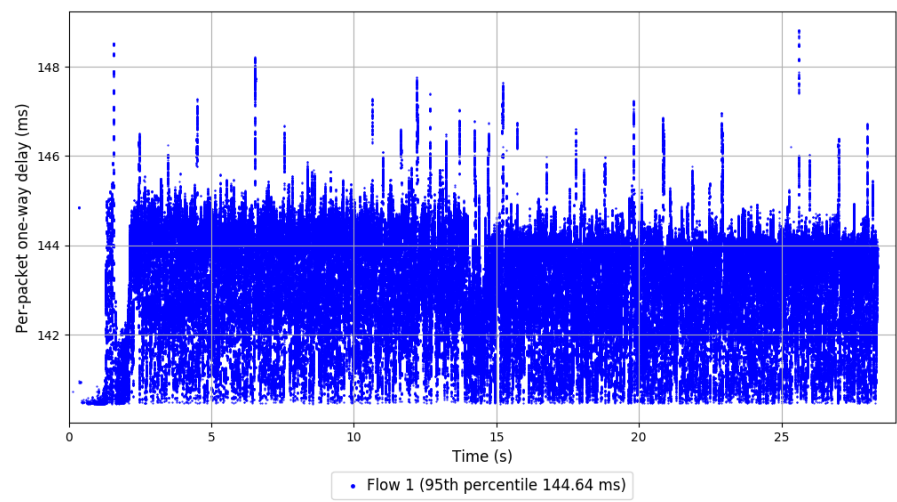
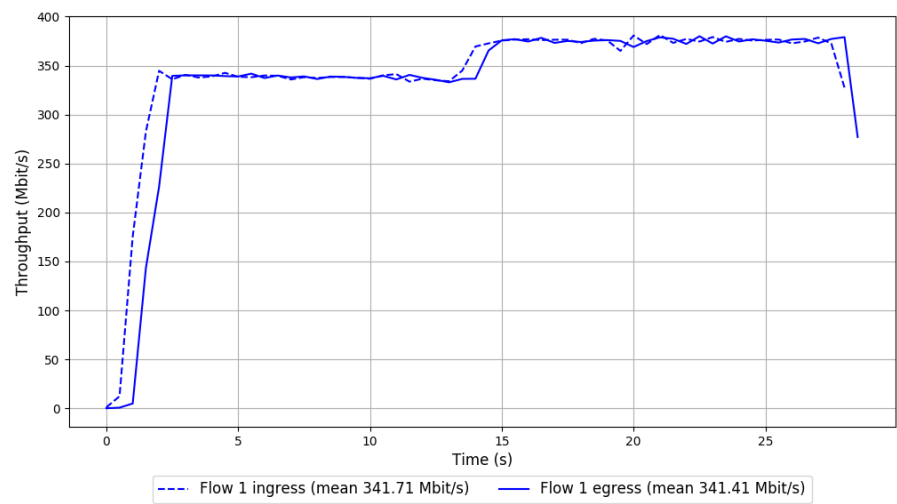
-- Flow 1:

Average throughput: 341.41 Mbit/s

95th percentile per-packet one-way delay: 144.637 ms

Loss rate: 0.79%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-12-11 12:33:45

End at: 2019-12-11 12:34:15

Local clock offset: 4.56 ms

Remote clock offset: -44.238 ms

Below is generated by plot.py at 2019-12-11 13:50:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 356.75 Mbit/s

95th percentile per-packet one-way delay: 150.247 ms

Loss rate: 0.75%

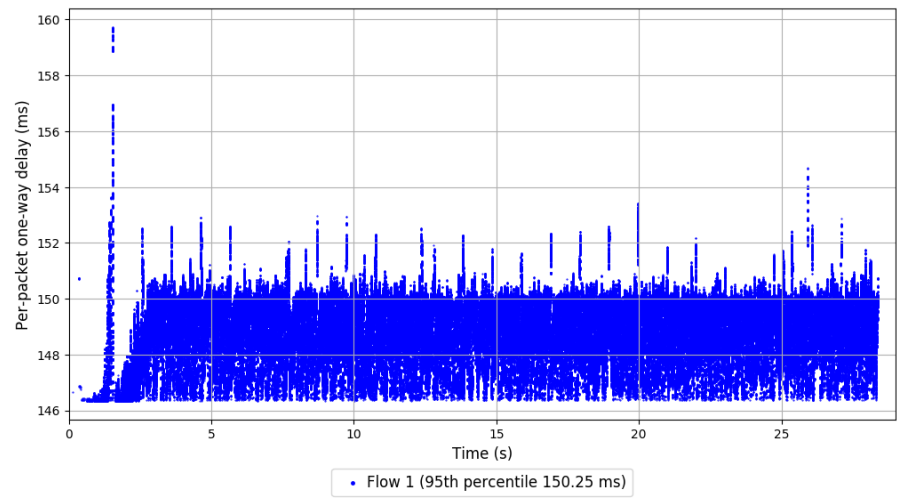
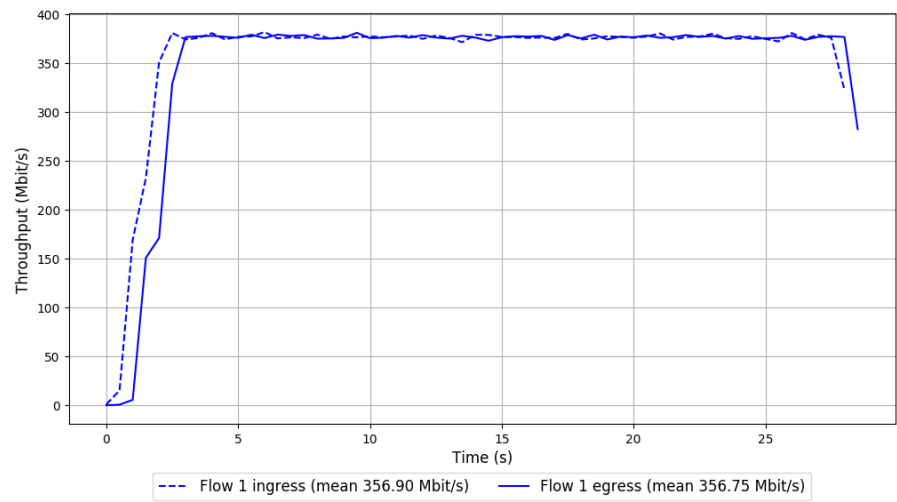
-- Flow 1:

Average throughput: 356.75 Mbit/s

95th percentile per-packet one-way delay: 150.247 ms

Loss rate: 0.75%

Run 4: Report of Indigo-MusesT — Data Link

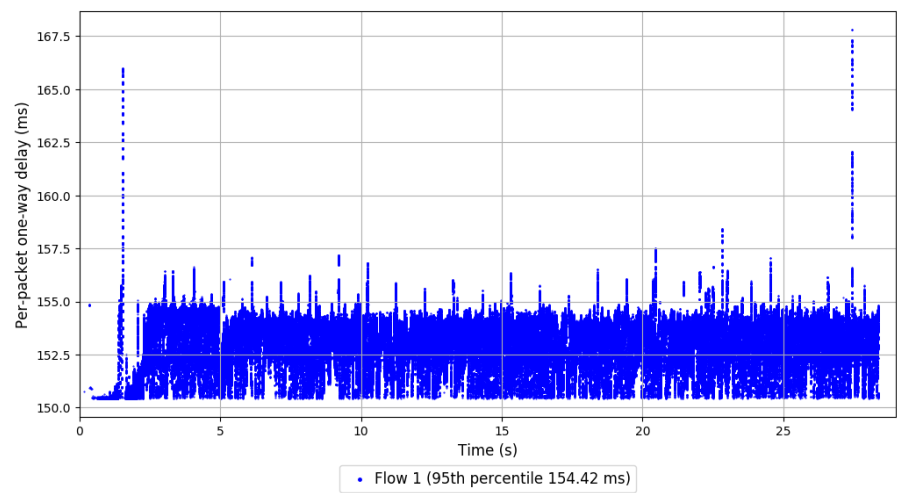
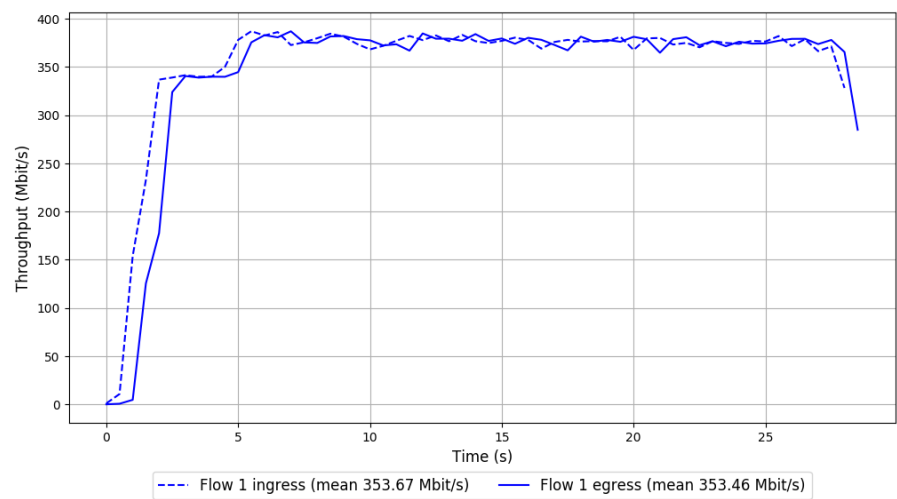


Run 5: Statistics of Indigo-MusesT

Start at: 2019-12-11 13:05:23
End at: 2019-12-11 13:05:53
Local clock offset: 4.147 ms
Remote clock offset: -48.469 ms

Below is generated by plot.py at 2019-12-11 13:51:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 353.46 Mbit/s
95th percentile per-packet one-way delay: 154.417 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 353.46 Mbit/s
95th percentile per-packet one-way delay: 154.417 ms
Loss rate: 0.76%

Run 5: Report of Indigo-MusesT — Data Link

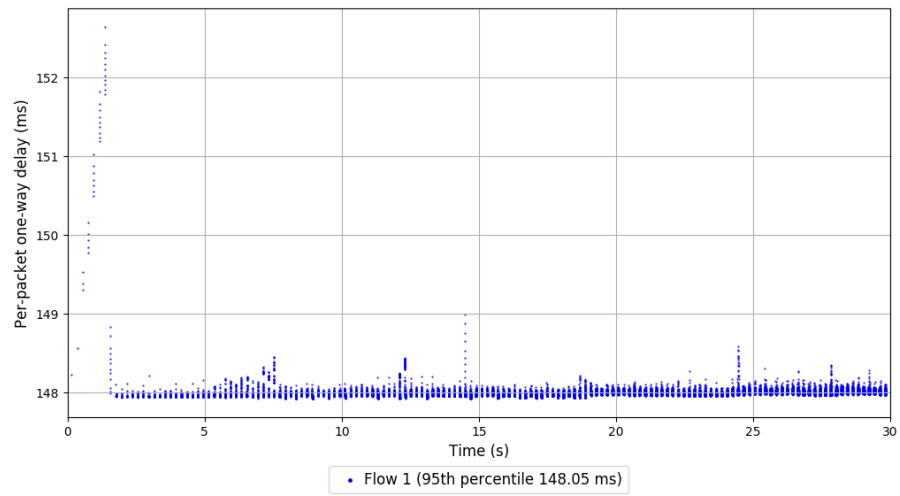
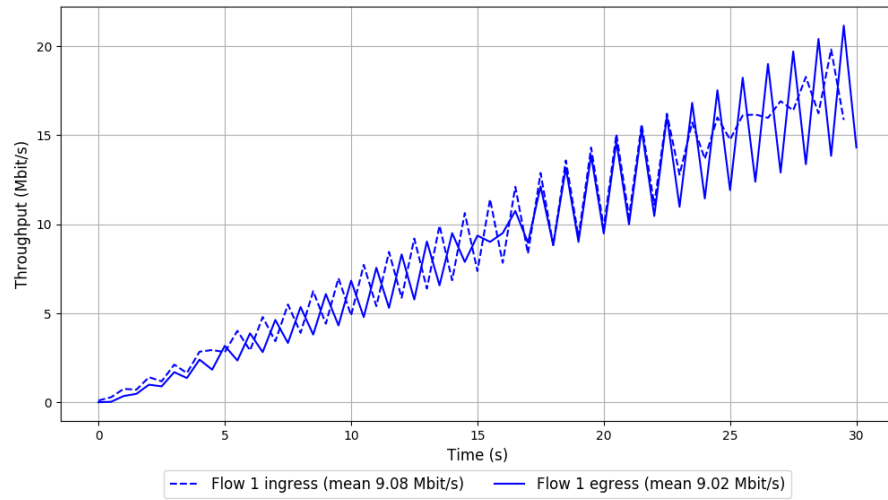


Run 1: Statistics of LEDBAT

Start at: 2019-12-11 10:57:10
End at: 2019-12-11 10:57:40
Local clock offset: 3.793 ms
Remote clock offset: -49.006 ms

Below is generated by plot.py at 2019-12-11 13:51:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.02 Mbit/s
95th percentile per-packet one-way delay: 148.054 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 9.02 Mbit/s
95th percentile per-packet one-way delay: 148.054 ms
Loss rate: 1.33%

Run 1: Report of LEDBAT — Data Link

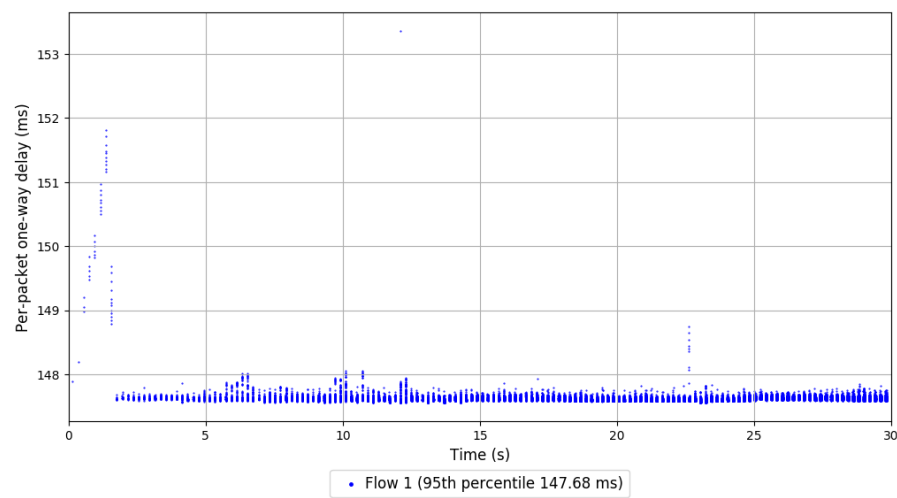
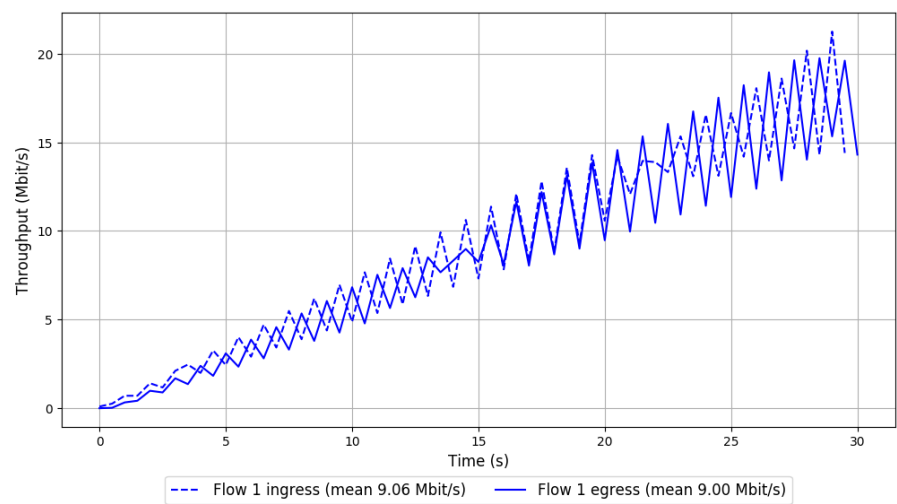


Run 2: Statistics of LEDBAT

Start at: 2019-12-11 11:28:32
End at: 2019-12-11 11:29:02
Local clock offset: 5.751 ms
Remote clock offset: -46.76 ms

Below is generated by plot.py at 2019-12-11 13:51:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.00 Mbit/s
95th percentile per-packet one-way delay: 147.680 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 9.00 Mbit/s
95th percentile per-packet one-way delay: 147.680 ms
Loss rate: 1.33%

Run 2: Report of LEDBAT — Data Link

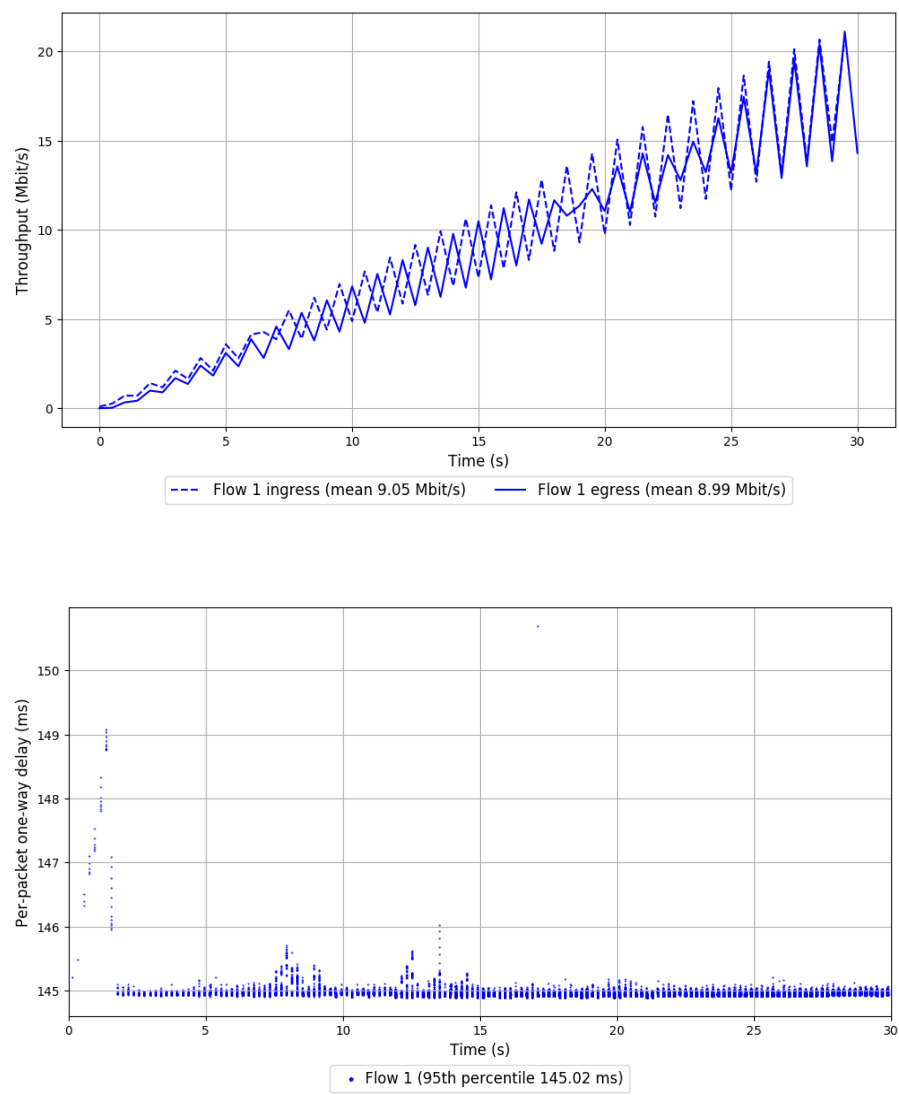


Run 3: Statistics of LEDBAT

Start at: 2019-12-11 11:59:50
End at: 2019-12-11 12:00:20
Local clock offset: 7.296 ms
Remote clock offset: -42.344 ms

Below is generated by plot.py at 2019-12-11 13:51:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 8.99 Mbit/s
95th percentile per-packet one-way delay: 145.018 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 8.99 Mbit/s
95th percentile per-packet one-way delay: 145.018 ms
Loss rate: 1.33%

Run 3: Report of LEDBAT — Data Link

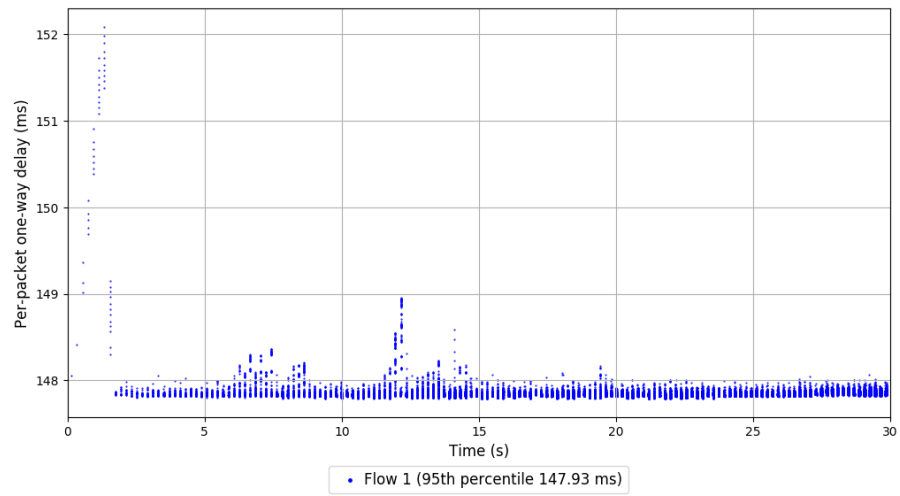
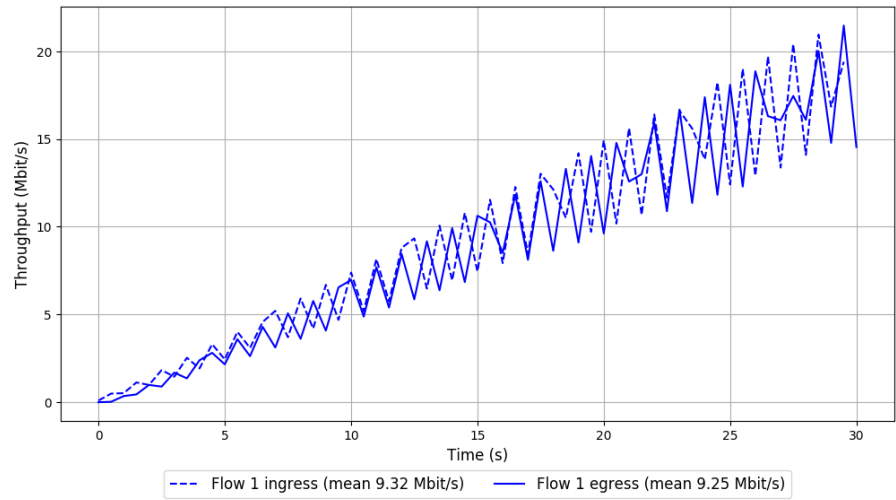


Run 4: Statistics of LEDBAT

Start at: 2019-12-11 12:31:08
End at: 2019-12-11 12:31:38
Local clock offset: 4.545 ms
Remote clock offset: -45.758 ms

Below is generated by plot.py at 2019-12-11 13:51:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.25 Mbit/s
95th percentile per-packet one-way delay: 147.925 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 9.25 Mbit/s
95th percentile per-packet one-way delay: 147.925 ms
Loss rate: 1.32%

Run 4: Report of LEDBAT — Data Link

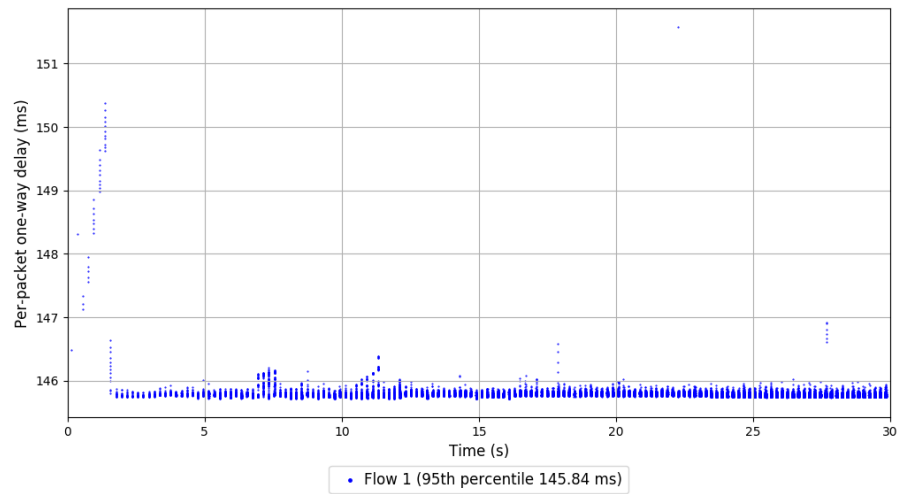
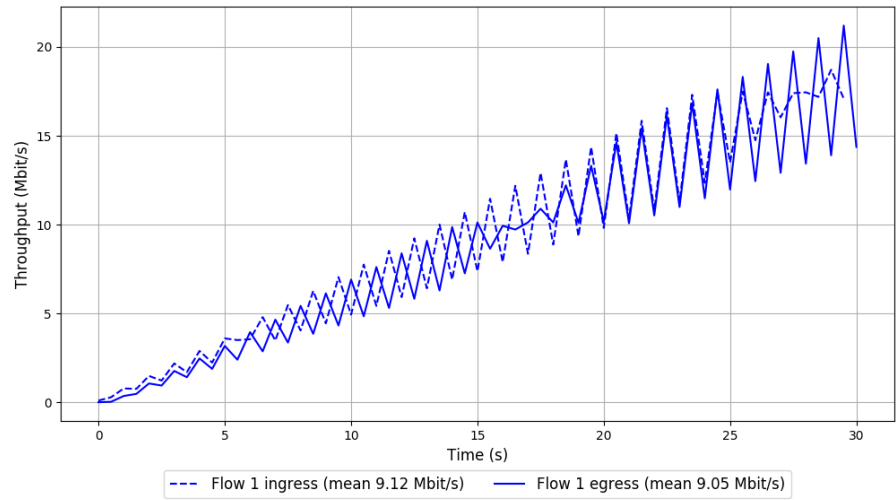


Run 5: Statistics of LEDBAT

Start at: 2019-12-11 13:02:46
End at: 2019-12-11 13:03:16
Local clock offset: 4.432 ms
Remote clock offset: -43.603 ms

Below is generated by plot.py at 2019-12-11 13:51:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.05 Mbit/s
95th percentile per-packet one-way delay: 145.843 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 9.05 Mbit/s
95th percentile per-packet one-way delay: 145.843 ms
Loss rate: 1.33%

Run 5: Report of LEDBAT — Data Link

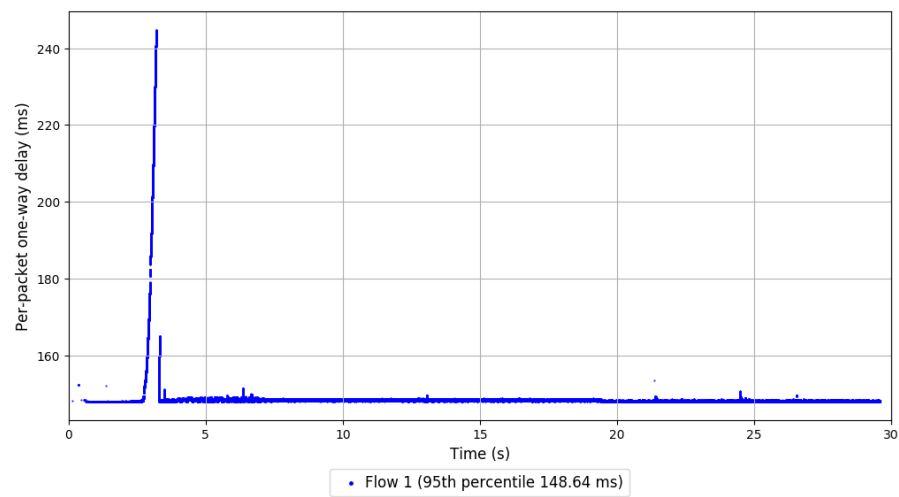
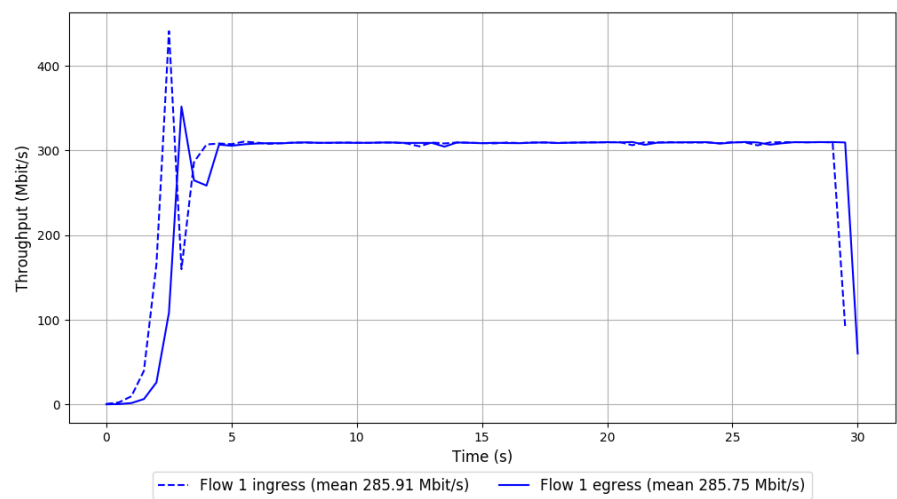


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-12-11 11:13:07
End at: 2019-12-11 11:13:37
Local clock offset: 4.519 ms
Remote clock offset: -48.089 ms

# Below is generated by plot.py at 2019-12-11 13:51:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 285.75 Mbit/s
95th percentile per-packet one-way delay: 148.638 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 285.75 Mbit/s
95th percentile per-packet one-way delay: 148.638 ms
Loss rate: 0.73%
```

Run 1: Report of Muses_DecisionTree — Data Link

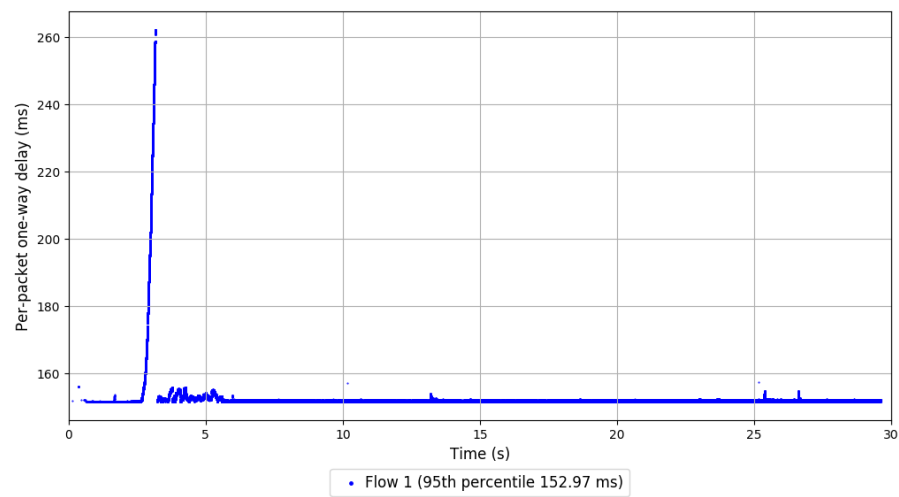
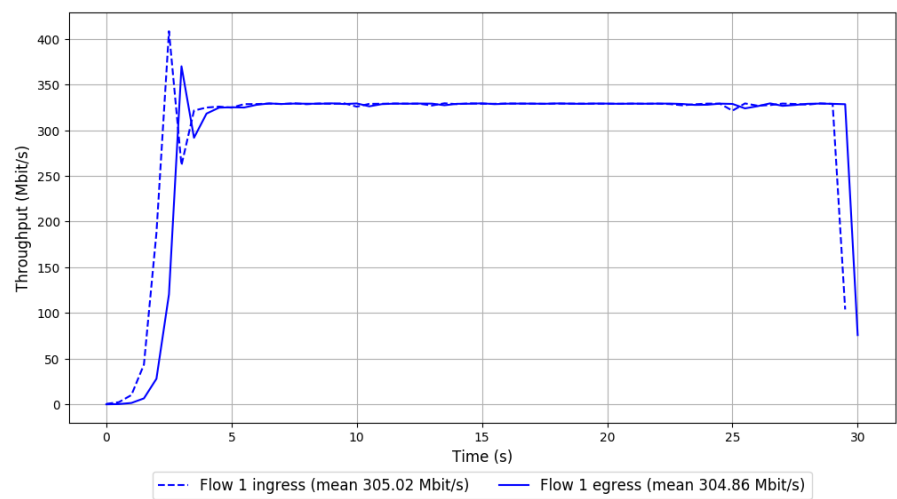


Run 2: Statistics of Muses_DecisionTree

Start at: 2019-12-11 11:44:25
End at: 2019-12-11 11:44:55
Local clock offset: 6.418 ms
Remote clock offset: -54.267 ms

Below is generated by plot.py at 2019-12-11 13:51:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 304.86 Mbit/s
95th percentile per-packet one-way delay: 152.973 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 304.86 Mbit/s
95th percentile per-packet one-way delay: 152.973 ms
Loss rate: 0.71%

Run 2: Report of Muses_DecisionTree — Data Link

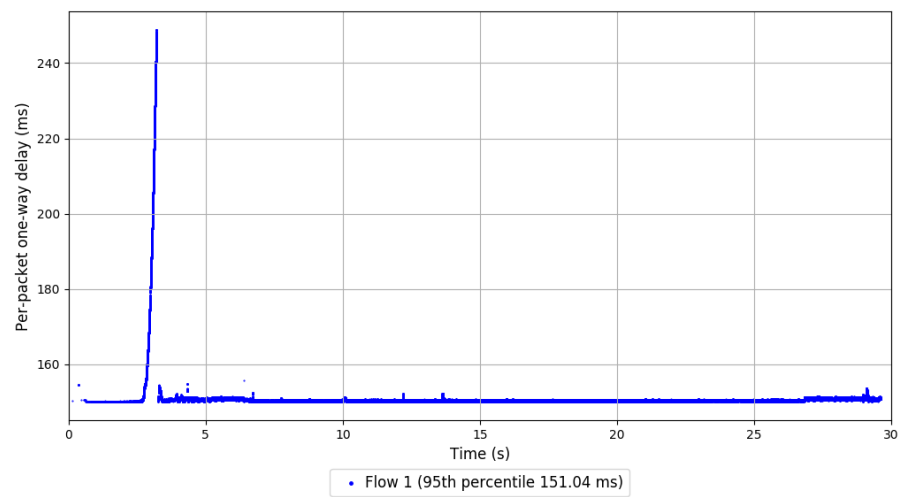
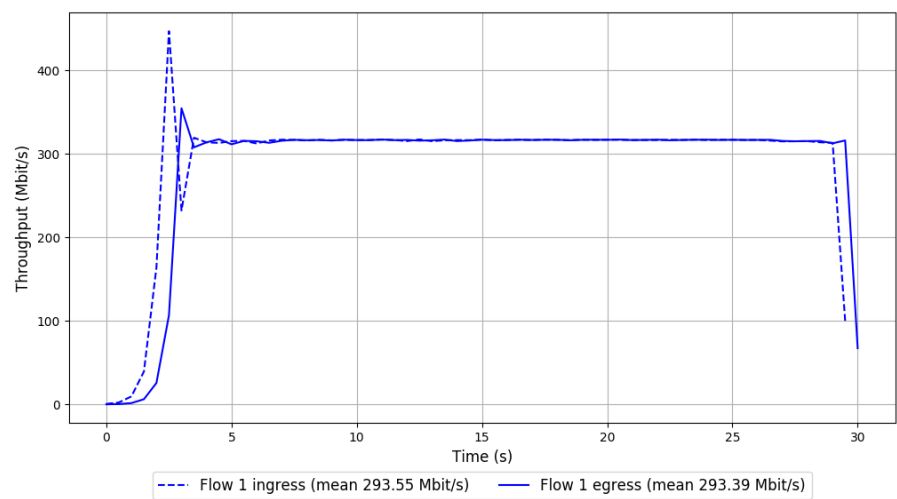


Run 3: Statistics of Muses_DecisionTree

Start at: 2019-12-11 12:15:51
End at: 2019-12-11 12:16:21
Local clock offset: 5.574 ms
Remote clock offset: -47.608 ms

Below is generated by plot.py at 2019-12-11 13:52:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 293.39 Mbit/s
95th percentile per-packet one-way delay: 151.043 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 293.39 Mbit/s
95th percentile per-packet one-way delay: 151.043 ms
Loss rate: 0.72%

Run 3: Report of Muses_DecisionTree — Data Link

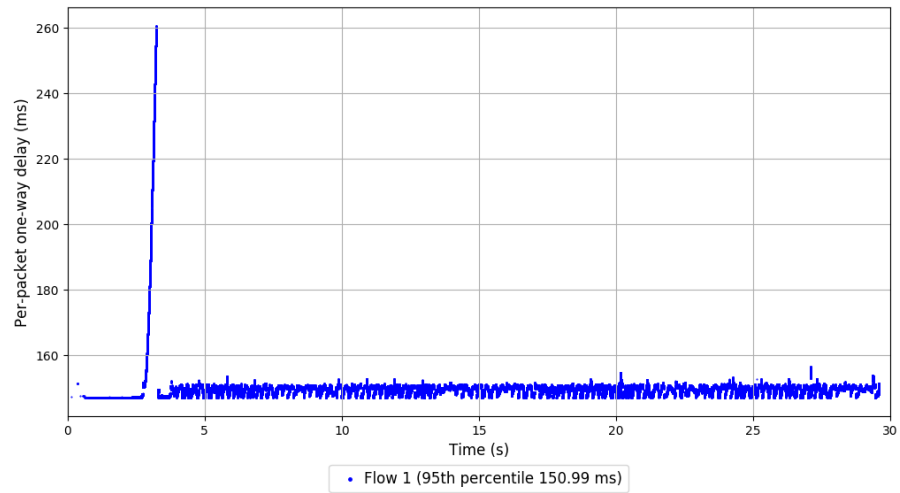
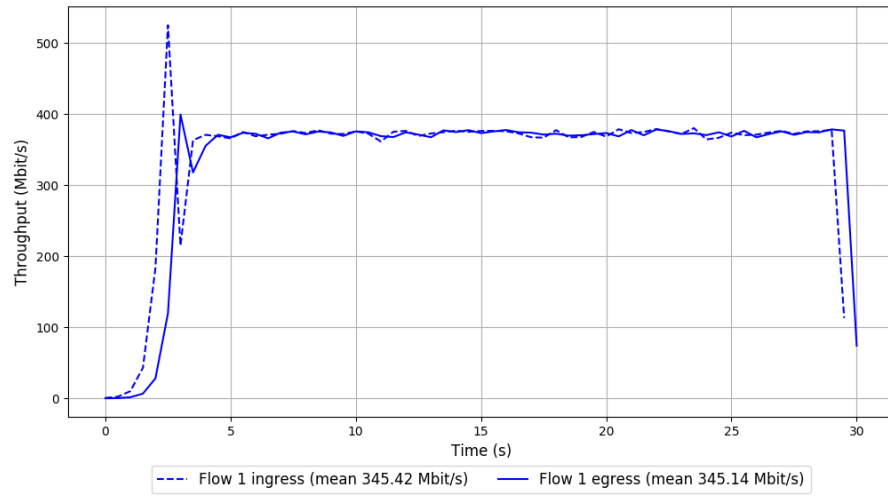


Run 4: Statistics of Muses_DecisionTree

Start at: 2019-12-11 12:47:11
End at: 2019-12-11 12:47:41
Local clock offset: 3.748 ms
Remote clock offset: -45.643 ms

Below is generated by plot.py at 2019-12-11 13:53:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 345.14 Mbit/s
95th percentile per-packet one-way delay: 150.987 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 345.14 Mbit/s
95th percentile per-packet one-way delay: 150.987 ms
Loss rate: 0.74%

Run 4: Report of Muses_DecisionTree — Data Link

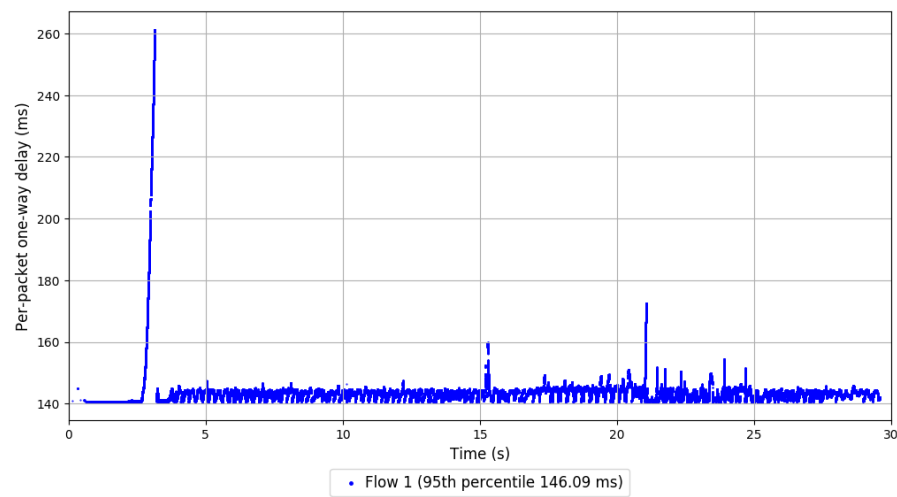
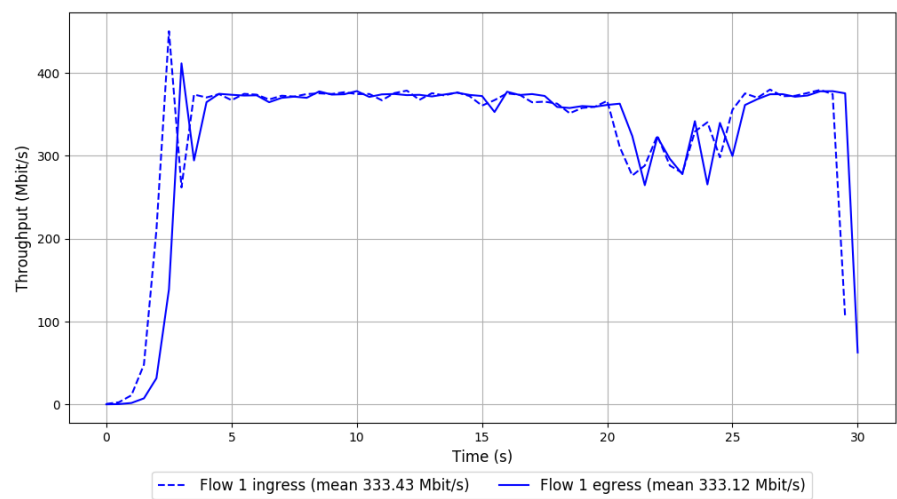


Run 5: Statistics of Muses_DecisionTree

Start at: 2019-12-11 13:18:45
End at: 2019-12-11 13:19:15
Local clock offset: 3.333 ms
Remote clock offset: -44.026 ms

Below is generated by plot.py at 2019-12-11 13:53:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 333.12 Mbit/s
95th percentile per-packet one-way delay: 146.088 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 333.12 Mbit/s
95th percentile per-packet one-way delay: 146.088 ms
Loss rate: 0.75%

Run 5: Report of Muses_DecisionTree — Data Link



Run 1: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-11 10:46:53

End at: 2019-12-11 10:47:23

Local clock offset: 4.506 ms

Remote clock offset: -41.305 ms

Run 1: Report of Muses_DecisionTreeH0 — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-11 11:18:19

End at: 2019-12-11 11:18:49

Local clock offset: 5.254 ms

Remote clock offset: -47.529 ms

Run 2: Report of Muses_DecisionTreeH0 — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-11 11:49:36

End at: 2019-12-11 11:50:06

Local clock offset: 5.759 ms

Remote clock offset: -35.261 ms

Run 3: Report of Muses_DecisionTreeH0 — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-11 12:20:49

End at: 2019-12-11 12:21:19

Local clock offset: 4.78 ms

Remote clock offset: -44.237 ms

Run 4: Report of Muses_DecisionTreeH0 — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-11 12:52:28

End at: 2019-12-11 12:52:58

Local clock offset: 3.53 ms

Remote clock offset: -47.391 ms

Run 5: Report of Muses_DecisionTreeH0 — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-11 10:50:38

End at: 2019-12-11 10:51:08

Local clock offset: 4.197 ms

Remote clock offset: -41.618 ms

Run 1: Report of Muses_DecisionTreeR0 — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-11 11:22:02

End at: 2019-12-11 11:22:32

Local clock offset: 5.424 ms

Remote clock offset: -47.381 ms

Run 2: Report of Muses_DecisionTreeR0 — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-11 11:53:21

End at: 2019-12-11 11:53:51

Local clock offset: 5.762 ms

Remote clock offset: -36.606 ms

Run 3: Report of Muses_DecisionTreeR0 — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-11 12:24:33

End at: 2019-12-11 12:25:03

Local clock offset: 5.172 ms

Remote clock offset: -46.802 ms

Run 4: Report of Muses_DecisionTreeR0 — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-11 12:56:14

End at: 2019-12-11 12:56:44

Local clock offset: 4.404 ms

Remote clock offset: -42.873 ms

Run 5: Report of Muses_DecisionTreeR0 — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of PCC-Allegro

Start at: 2019-12-11 10:54:24

End at: 2019-12-11 10:54:54

Local clock offset: 5.189 ms

Remote clock offset: -41.377 ms

Below is generated by plot.py at 2019-12-11 13:54:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 310.60 Mbit/s

95th percentile per-packet one-way delay: 146.417 ms

Loss rate: 0.98%

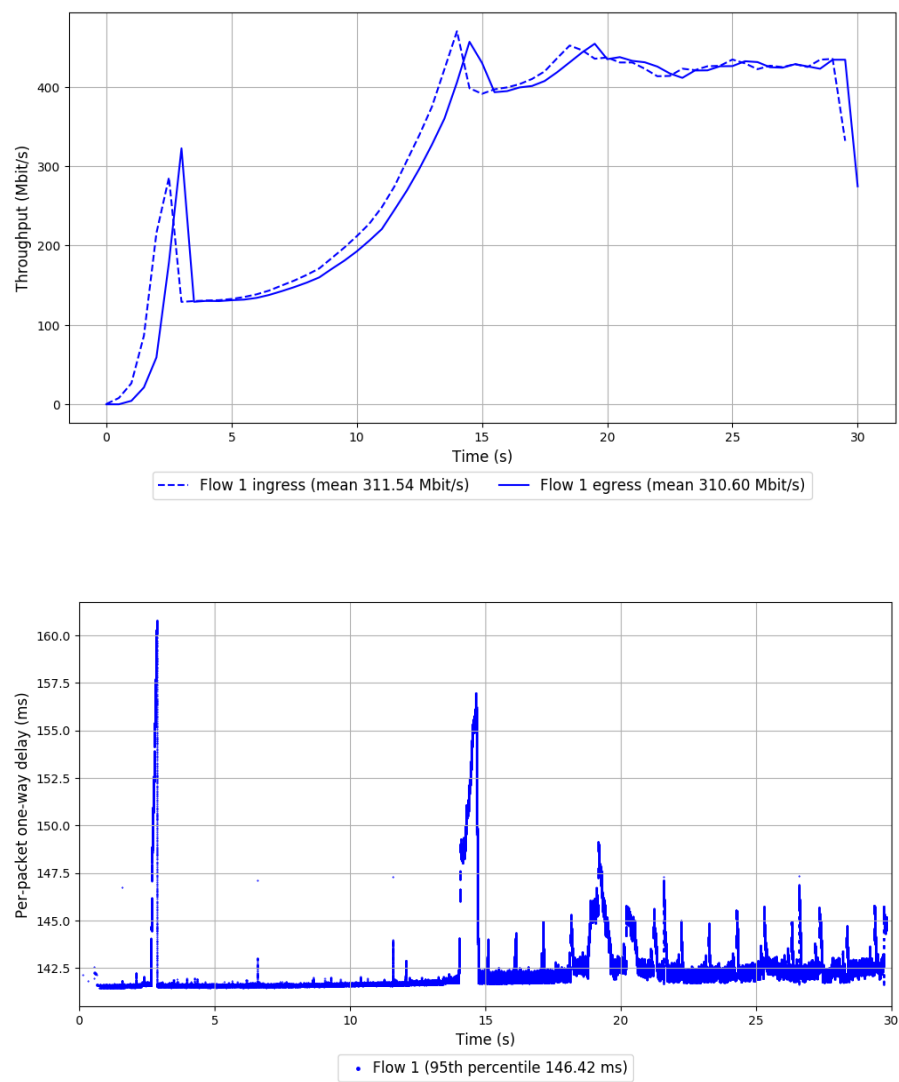
-- Flow 1:

Average throughput: 310.60 Mbit/s

95th percentile per-packet one-way delay: 146.417 ms

Loss rate: 0.98%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-12-11 11:25:47

End at: 2019-12-11 11:26:18

Local clock offset: 5.369 ms

Remote clock offset: -43.78 ms

Below is generated by plot.py at 2019-12-11 13:54:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 325.92 Mbit/s

95th percentile per-packet one-way delay: 144.224 ms

Loss rate: 0.99%

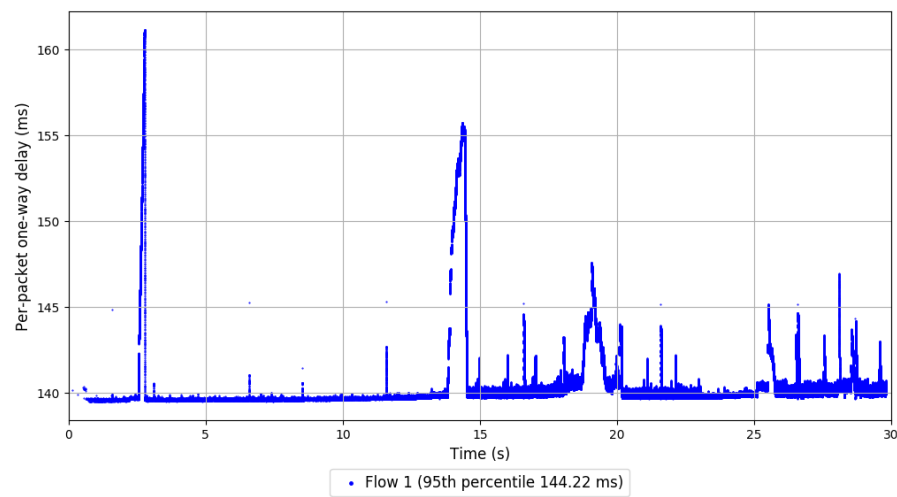
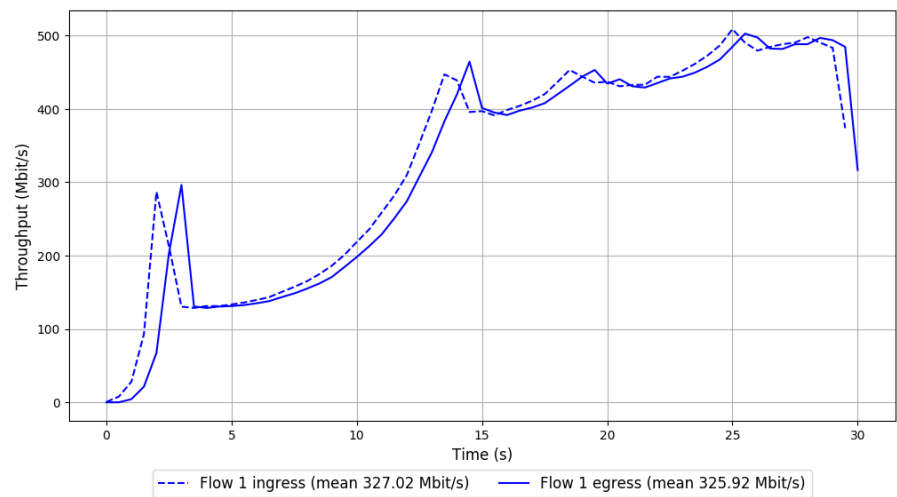
-- Flow 1:

Average throughput: 325.92 Mbit/s

95th percentile per-packet one-way delay: 144.224 ms

Loss rate: 0.99%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-12-11 11:57:06

End at: 2019-12-11 11:57:36

Local clock offset: 6.157 ms

Remote clock offset: -43.922 ms

Below is generated by plot.py at 2019-12-11 13:54:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 291.77 Mbit/s

95th percentile per-packet one-way delay: 147.156 ms

Loss rate: 1.12%

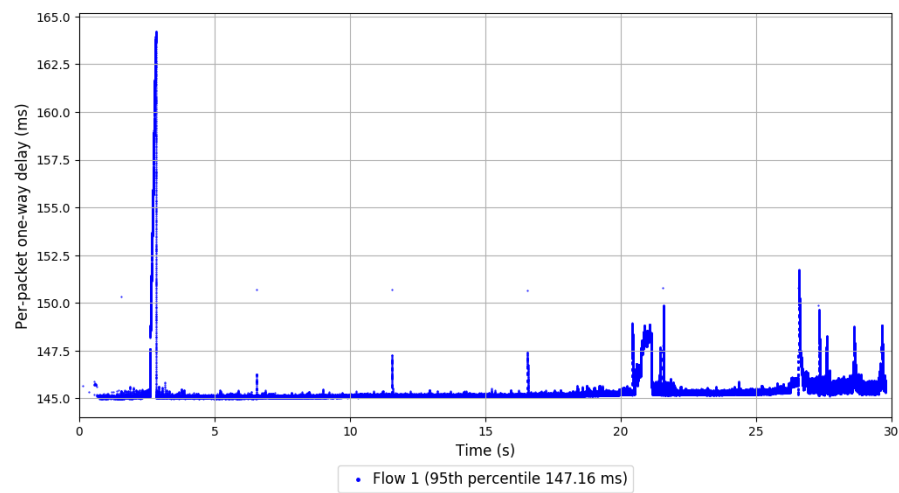
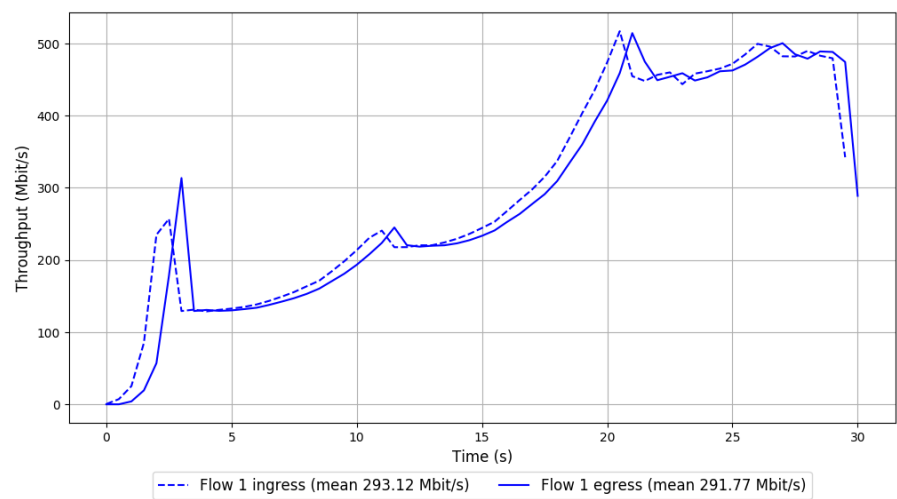
-- Flow 1:

Average throughput: 291.77 Mbit/s

95th percentile per-packet one-way delay: 147.156 ms

Loss rate: 1.12%

Run 3: Report of PCC-Allegro — Data Link

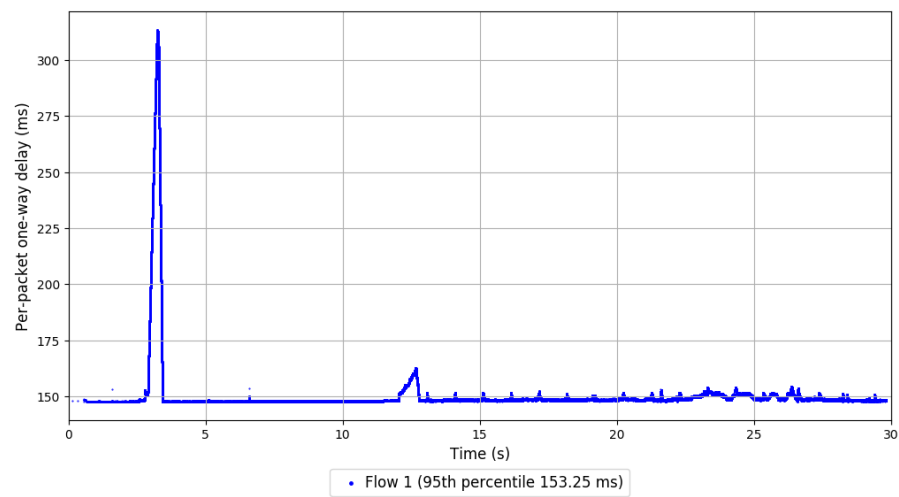
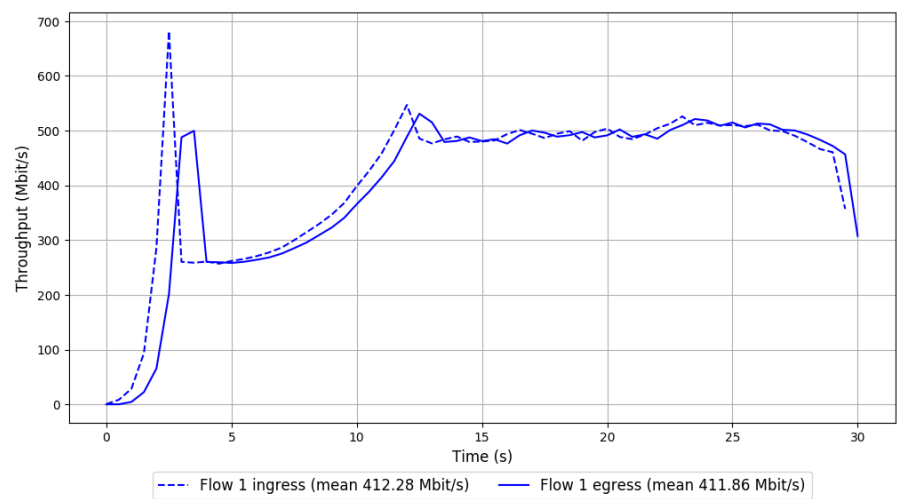


Run 4: Statistics of PCC-Allegro

Start at: 2019-12-11 12:28:18
End at: 2019-12-11 12:28:48
Local clock offset: 4.27 ms
Remote clock offset: -46.046 ms

Below is generated by plot.py at 2019-12-11 13:57:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 411.86 Mbit/s
95th percentile per-packet one-way delay: 153.246 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 411.86 Mbit/s
95th percentile per-packet one-way delay: 153.246 ms
Loss rate: 0.77%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-12-11 12:59:59

End at: 2019-12-11 13:00:29

Local clock offset: 3.583 ms

Remote clock offset: -35.159 ms

Below is generated by plot.py at 2019-12-11 13:57:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 306.23 Mbit/s

95th percentile per-packet one-way delay: 140.174 ms

Loss rate: 0.94%

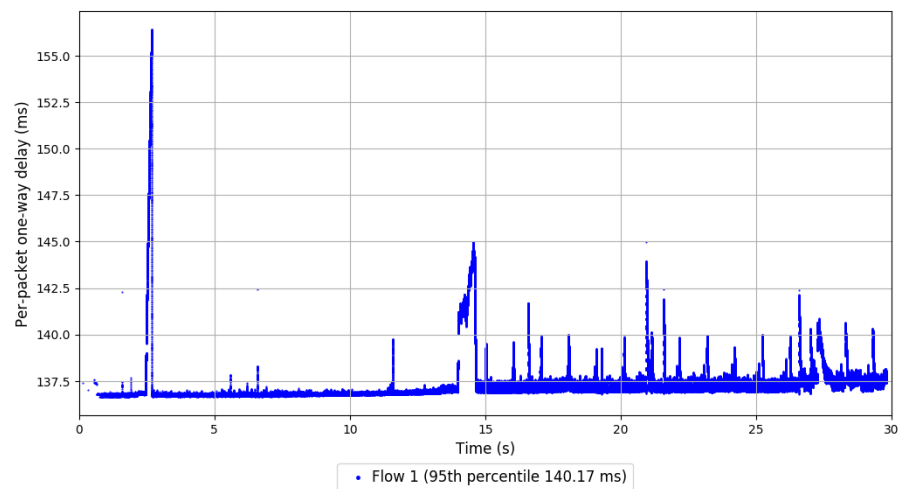
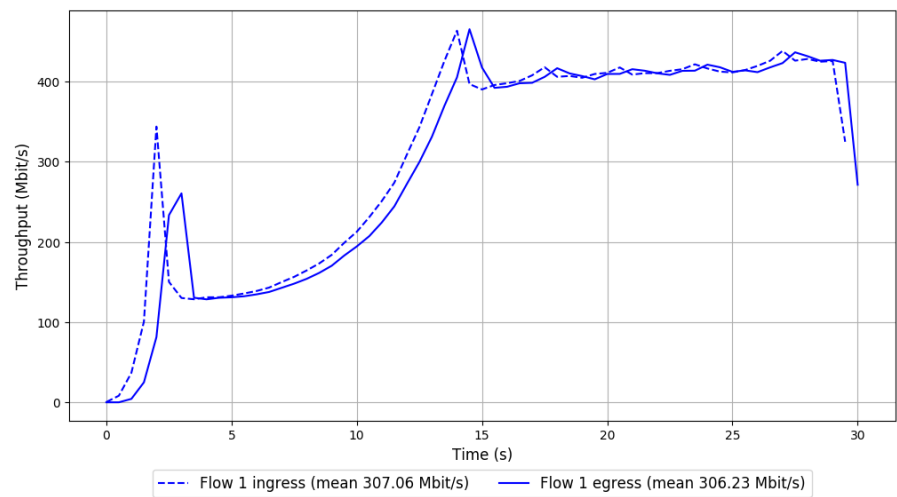
-- Flow 1:

Average throughput: 306.23 Mbit/s

95th percentile per-packet one-way delay: 140.174 ms

Loss rate: 0.94%

Run 5: Report of PCC-Allegro — Data Link

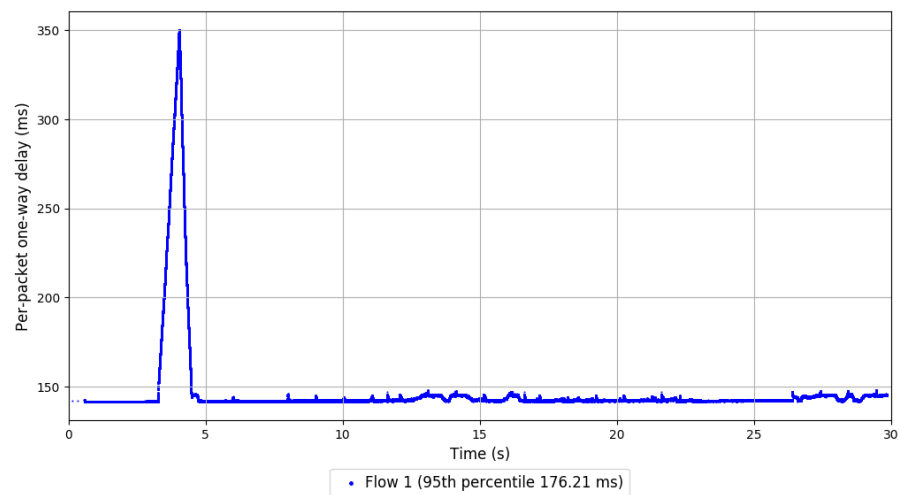
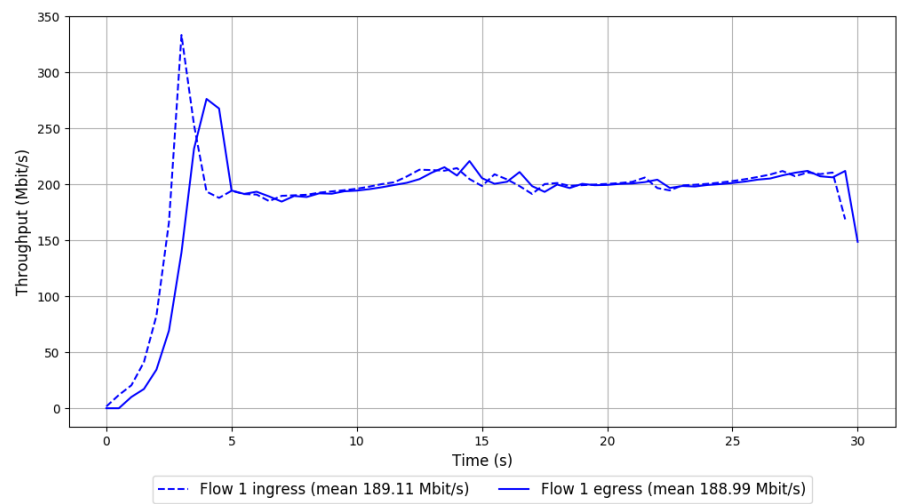


Run 1: Statistics of PCC-Expr

Start at: 2019-12-11 11:01:12
End at: 2019-12-11 11:01:42
Local clock offset: 4.779 ms
Remote clock offset: -41.218 ms

Below is generated by plot.py at 2019-12-11 13:57:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 188.99 Mbit/s
95th percentile per-packet one-way delay: 176.212 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 188.99 Mbit/s
95th percentile per-packet one-way delay: 176.212 ms
Loss rate: 0.73%

Run 1: Report of PCC-Expr — Data Link

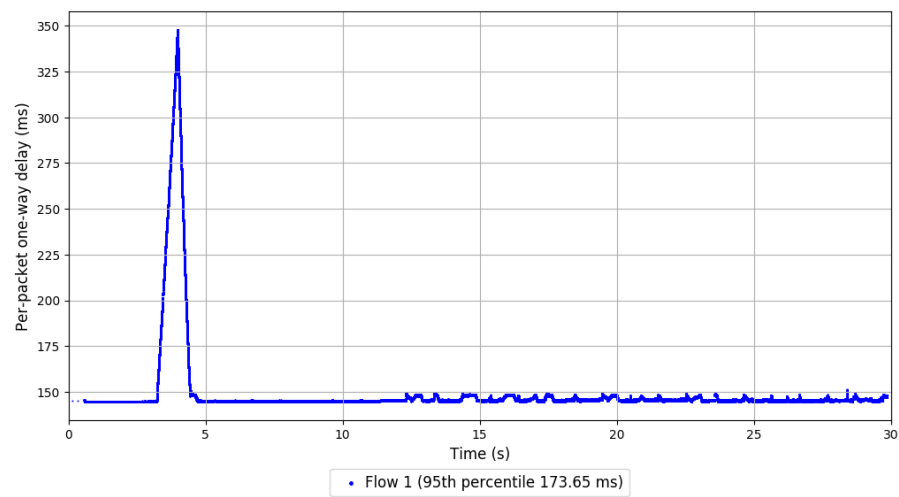
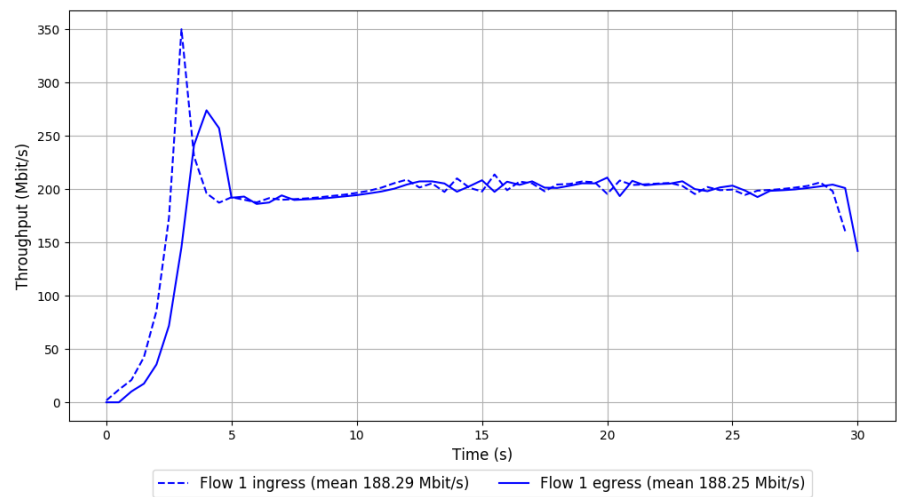


Run 2: Statistics of PCC-Expr

Start at: 2019-12-11 11:32:33
End at: 2019-12-11 11:33:03
Local clock offset: 5.807 ms
Remote clock offset: -43.682 ms

Below is generated by plot.py at 2019-12-11 13:58:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 188.25 Mbit/s
95th percentile per-packet one-way delay: 173.651 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 188.25 Mbit/s
95th percentile per-packet one-way delay: 173.651 ms
Loss rate: 0.69%

Run 2: Report of PCC-Expr — Data Link

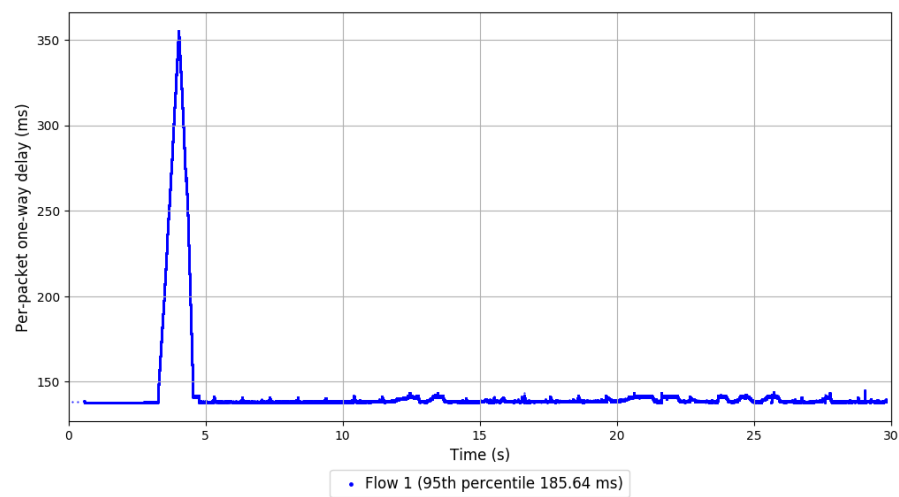
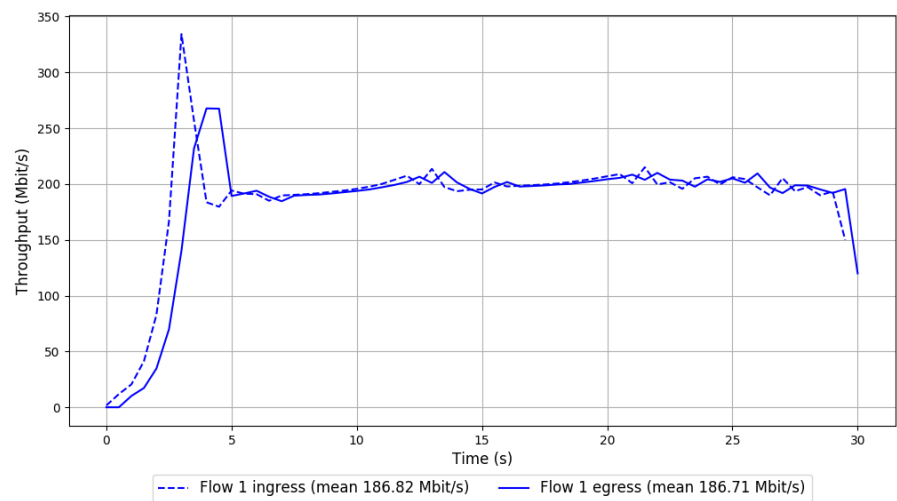


Run 3: Statistics of PCC-Expr

Start at: 2019-12-11 12:03:52
End at: 2019-12-11 12:04:22
Local clock offset: 6.906 ms
Remote clock offset: -35.626 ms

Below is generated by plot.py at 2019-12-11 13:58:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 186.71 Mbit/s
95th percentile per-packet one-way delay: 185.641 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 186.71 Mbit/s
95th percentile per-packet one-way delay: 185.641 ms
Loss rate: 0.73%

Run 3: Report of PCC-Expr — Data Link

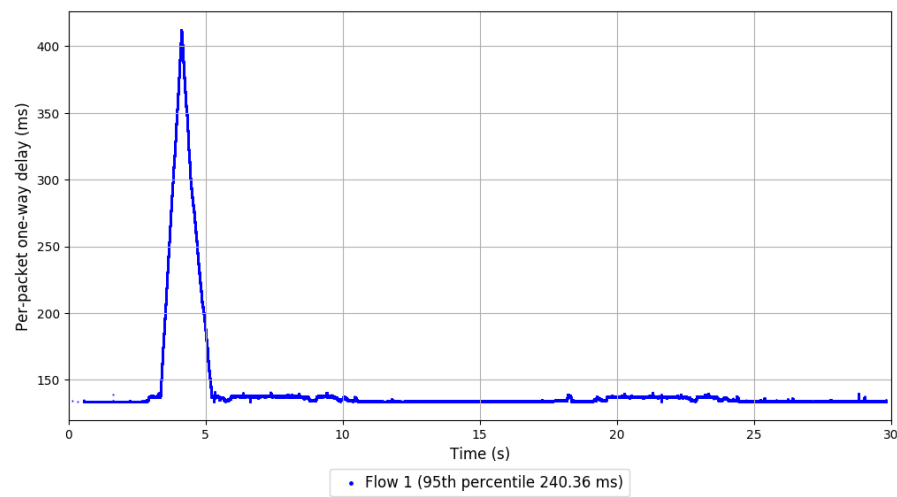
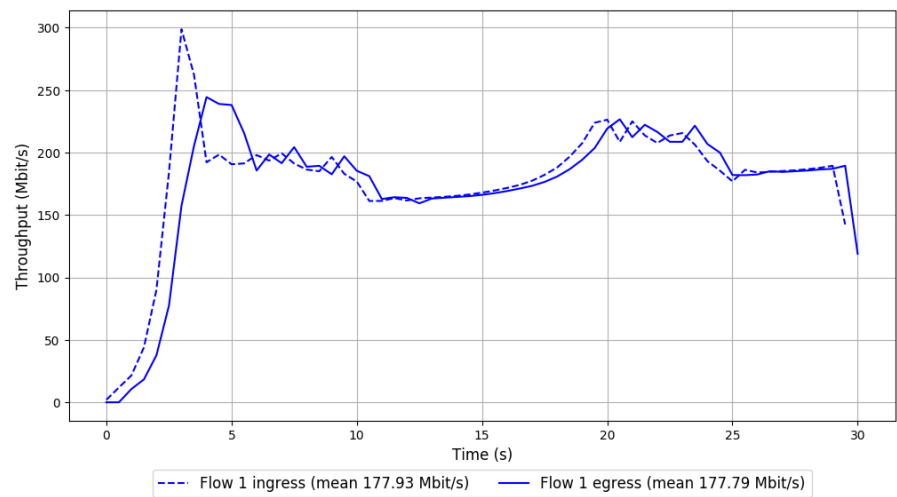


Run 4: Statistics of PCC-Expr

Start at: 2019-12-11 12:35:11
End at: 2019-12-11 12:35:41
Local clock offset: 4.657 ms
Remote clock offset: -35.909 ms

Below is generated by plot.py at 2019-12-11 13:58:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 177.79 Mbit/s
95th percentile per-packet one-way delay: 240.362 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 177.79 Mbit/s
95th percentile per-packet one-way delay: 240.362 ms
Loss rate: 0.73%

Run 4: Report of PCC-Expr — Data Link

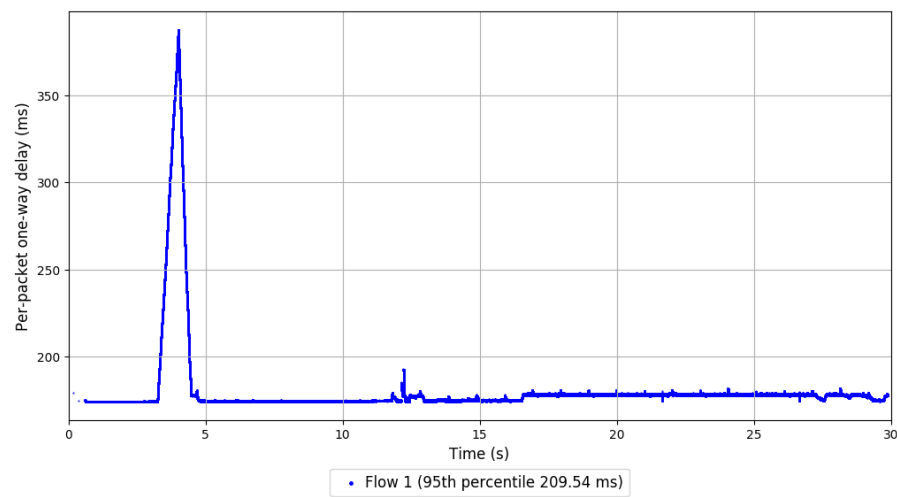
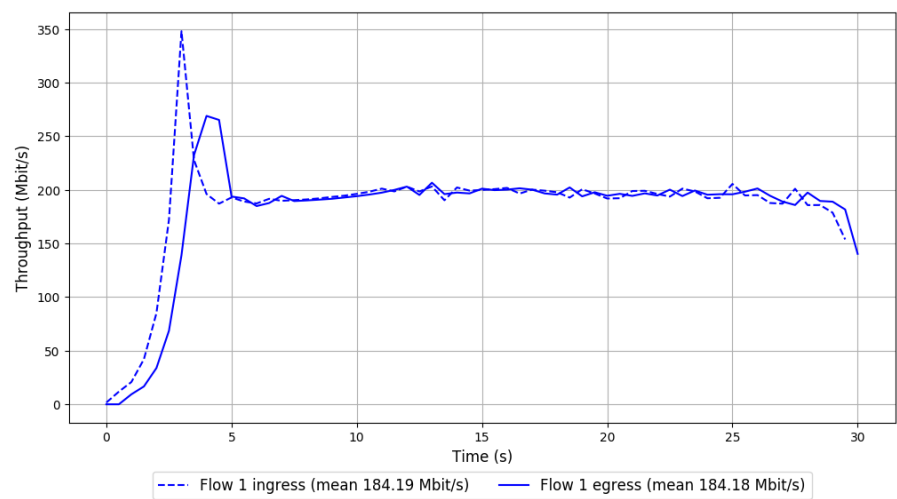


Run 5: Statistics of PCC-Expr

Start at: 2019-12-11 13:06:49
End at: 2019-12-11 13:07:19
Local clock offset: 4.291 ms
Remote clock offset: -72.092 ms

Below is generated by plot.py at 2019-12-11 13:59:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 184.18 Mbit/s
95th percentile per-packet one-way delay: 209.536 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 184.18 Mbit/s
95th percentile per-packet one-way delay: 209.536 ms
Loss rate: 0.69%

Run 5: Report of PCC-Expr — Data Link

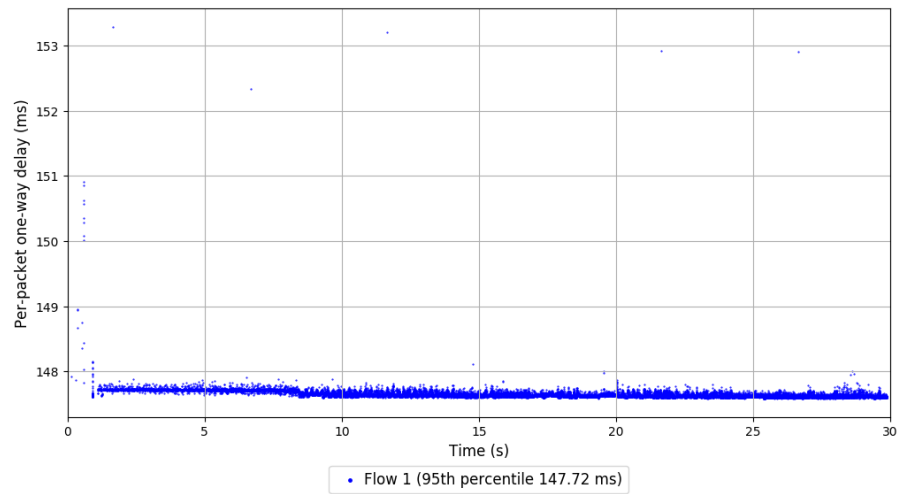
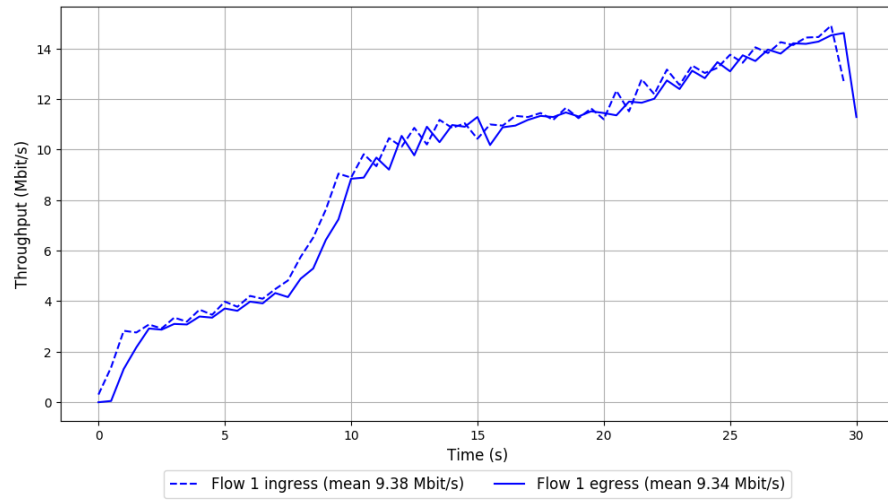


Run 1: Statistics of QUIC Cubic

Start at: 2019-12-11 11:14:30
End at: 2019-12-11 11:15:00
Local clock offset: 5.708 ms
Remote clock offset: -46.655 ms

Below is generated by plot.py at 2019-12-11 13:59:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.34 Mbit/s
95th percentile per-packet one-way delay: 147.721 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 9.34 Mbit/s
95th percentile per-packet one-way delay: 147.721 ms
Loss rate: 1.05%

Run 1: Report of QUIC Cubic — Data Link

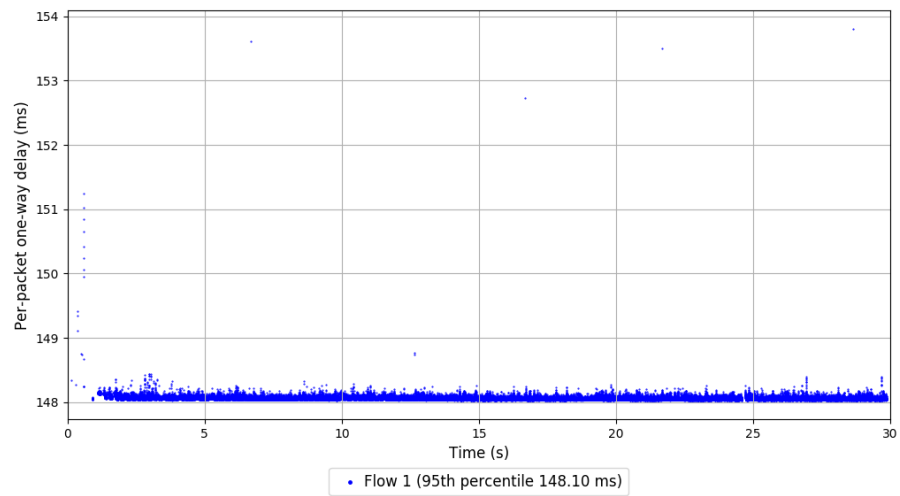
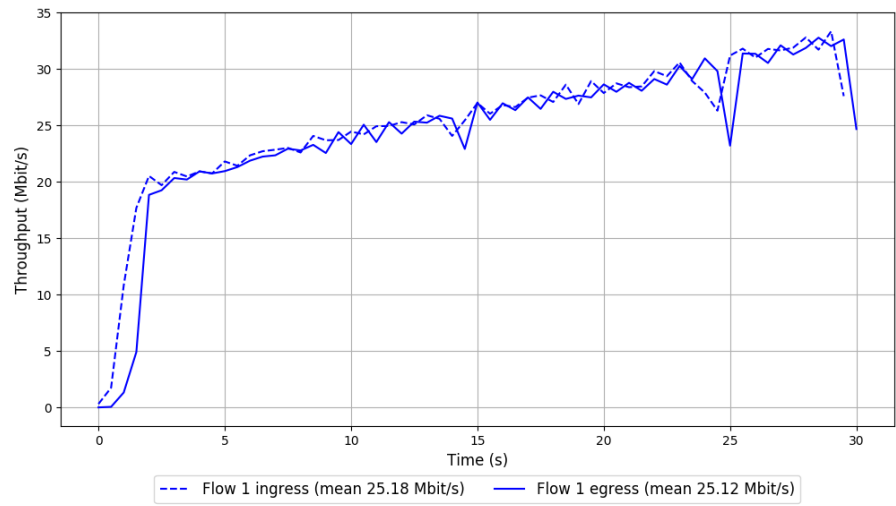


Run 2: Statistics of QUIC Cubic

Start at: 2019-12-11 11:45:49
End at: 2019-12-11 11:46:19
Local clock offset: 6.207 ms
Remote clock offset: -46.401 ms

Below is generated by plot.py at 2019-12-11 13:59:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 25.12 Mbit/s
95th percentile per-packet one-way delay: 148.105 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 25.12 Mbit/s
95th percentile per-packet one-way delay: 148.105 ms
Loss rate: 0.87%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-12-11 12:17:15

End at: 2019-12-11 12:17:45

Local clock offset: 5.026 ms

Remote clock offset: -38.04 ms

Below is generated by plot.py at 2019-12-11 13:59:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.11 Mbit/s

95th percentile per-packet one-way delay: 135.626 ms

Loss rate: 1.10%

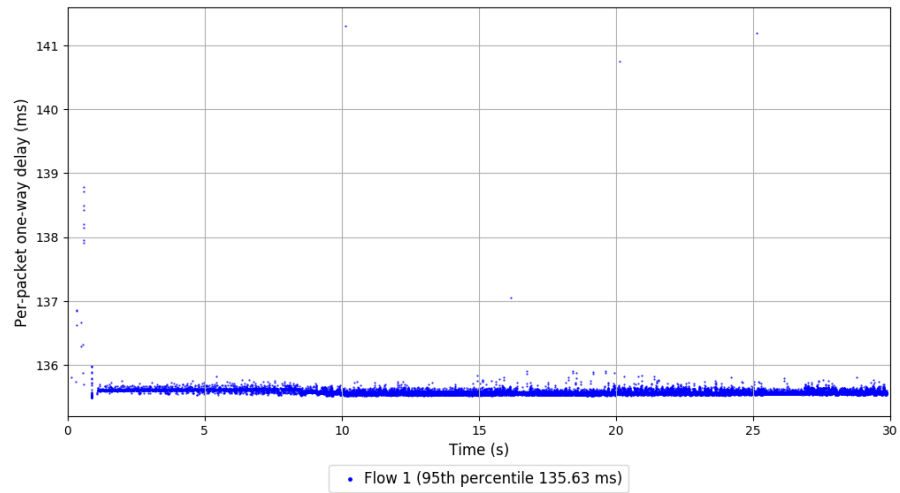
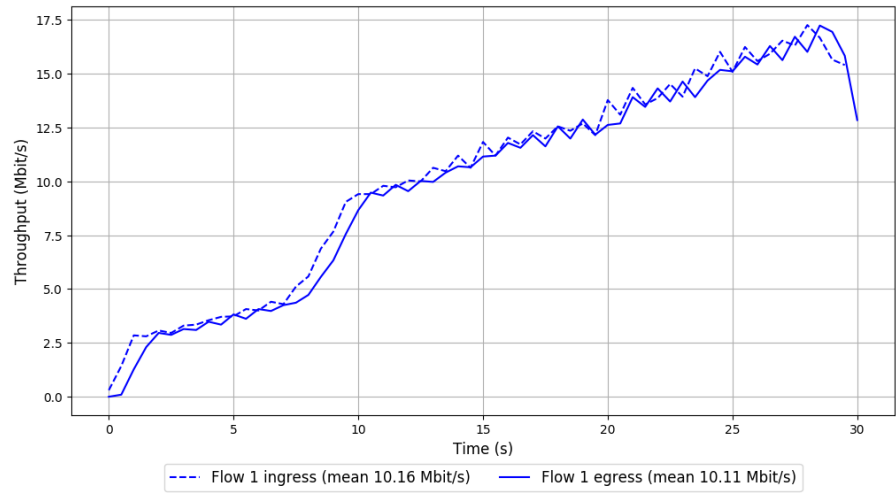
-- Flow 1:

Average throughput: 10.11 Mbit/s

95th percentile per-packet one-way delay: 135.626 ms

Loss rate: 1.10%

Run 3: Report of QUIC Cubic — Data Link

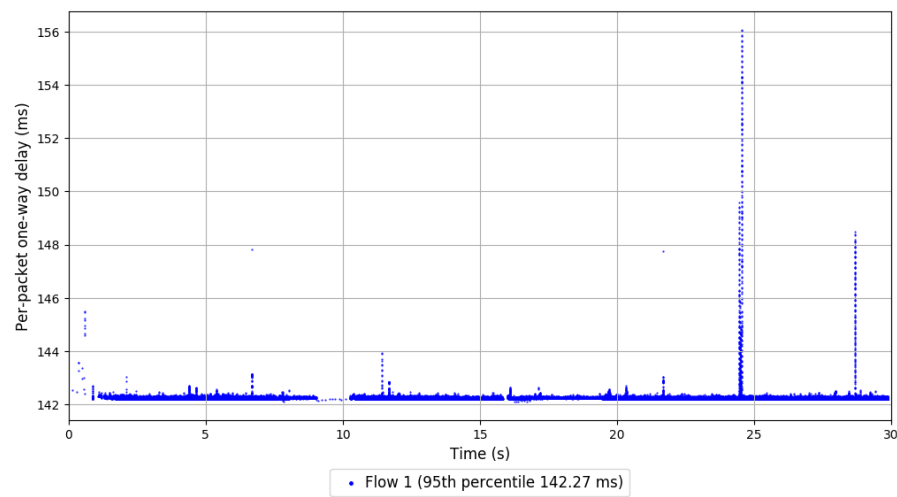
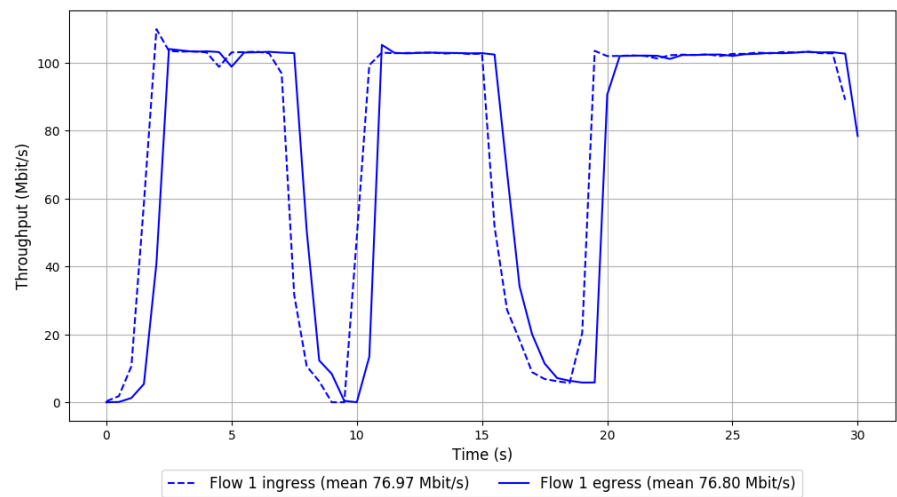


Run 4: Statistics of QUIC Cubic

Start at: 2019-12-11 12:48:37
End at: 2019-12-11 12:49:07
Local clock offset: 3.469 ms
Remote clock offset: -45.53 ms

Below is generated by plot.py at 2019-12-11 13:59:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.80 Mbit/s
95th percentile per-packet one-way delay: 142.269 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 76.80 Mbit/s
95th percentile per-packet one-way delay: 142.269 ms
Loss rate: 0.87%

Run 4: Report of QUIC Cubic — Data Link

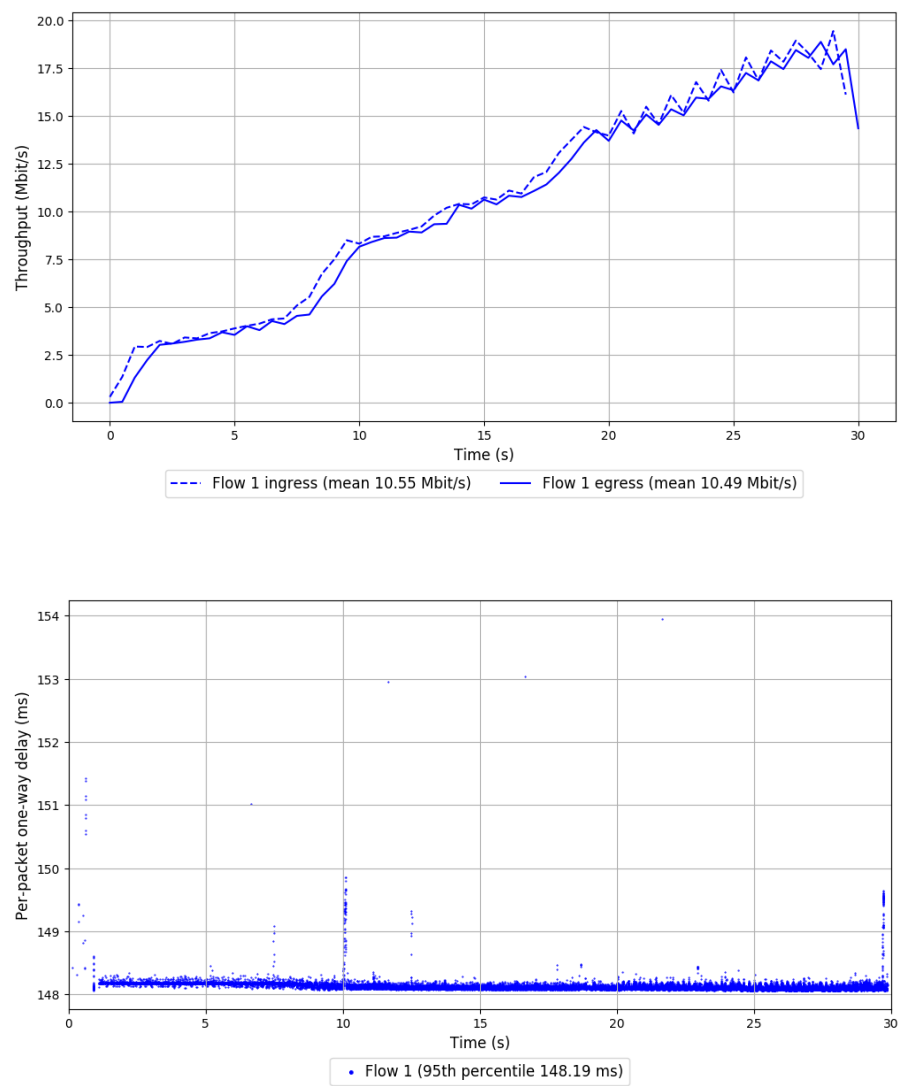


Run 5: Statistics of QUIC Cubic

Start at: 2019-12-11 13:20:10
End at: 2019-12-11 13:20:40
Local clock offset: 4.246 ms
Remote clock offset: -46.276 ms

Below is generated by plot.py at 2019-12-11 13:59:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 10.49 Mbit/s
95th percentile per-packet one-way delay: 148.187 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 10.49 Mbit/s
95th percentile per-packet one-way delay: 148.187 ms
Loss rate: 1.26%

Run 5: Report of QUIC Cubic — Data Link

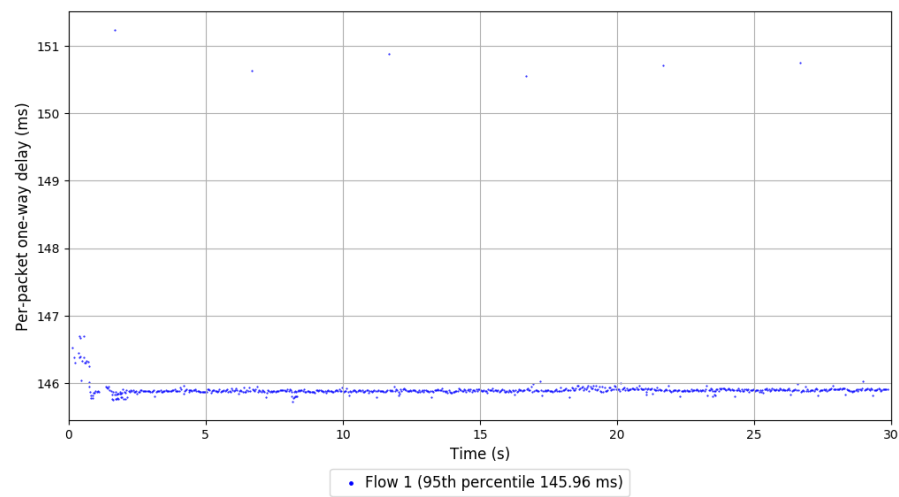
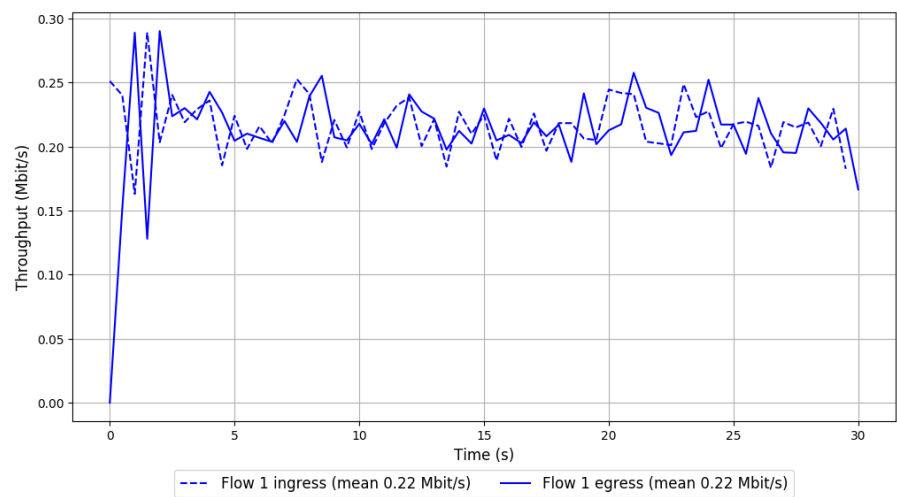


Run 1: Statistics of SCReAM

Start at: 2019-12-11 10:51:47
End at: 2019-12-11 10:52:17
Local clock offset: 4.833 ms
Remote clock offset: -45.974 ms

Below is generated by plot.py at 2019-12-11 13:59:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 145.955 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 145.955 ms
Loss rate: 0.64%

Run 1: Report of SReAM — Data Link

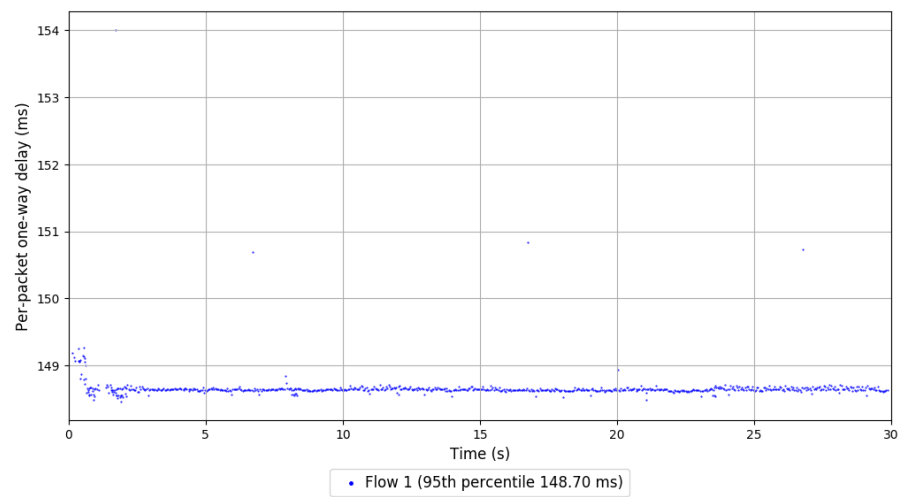
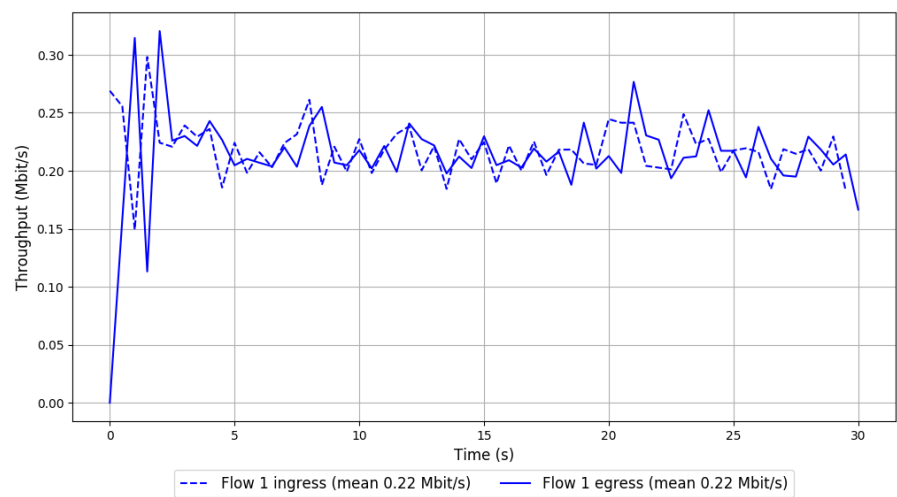


Run 2: Statistics of SCReAM

Start at: 2019-12-11 11:23:12
End at: 2019-12-11 11:23:42
Local clock offset: 6.0 ms
Remote clock offset: -47.349 ms

Below is generated by plot.py at 2019-12-11 13:59:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 148.700 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 148.700 ms
Loss rate: 0.64%

Run 2: Report of SReAM — Data Link

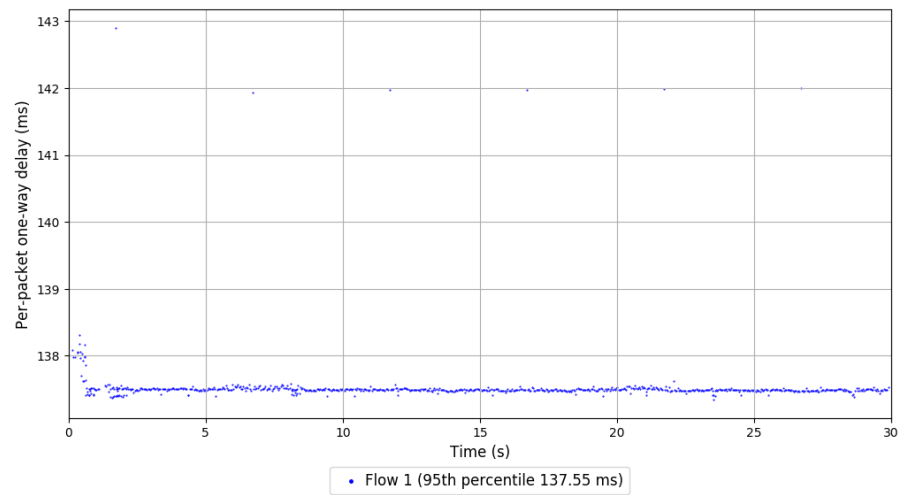
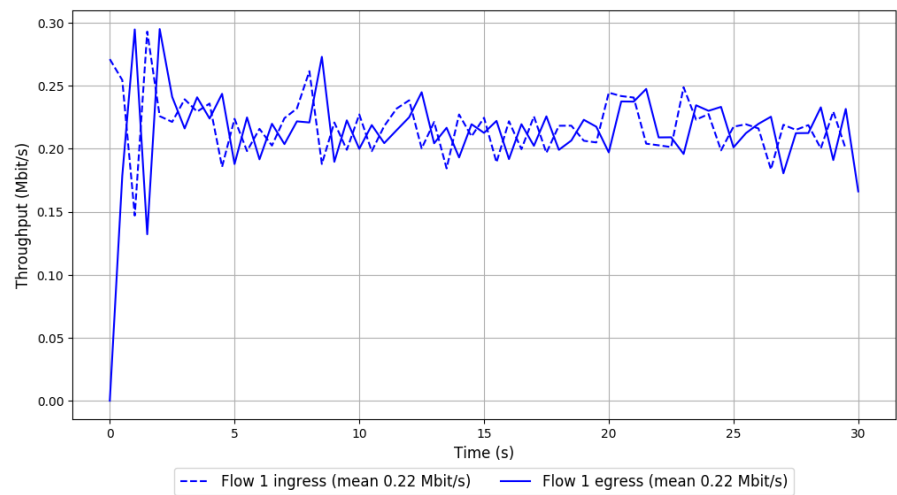


Run 3: Statistics of SCReAM

Start at: 2019-12-11 11:54:31
End at: 2019-12-11 11:55:01
Local clock offset: 6.092 ms
Remote clock offset: -36.183 ms

Below is generated by plot.py at 2019-12-11 13:59:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.554 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.554 ms
Loss rate: 0.63%

Run 3: Report of SReAM — Data Link

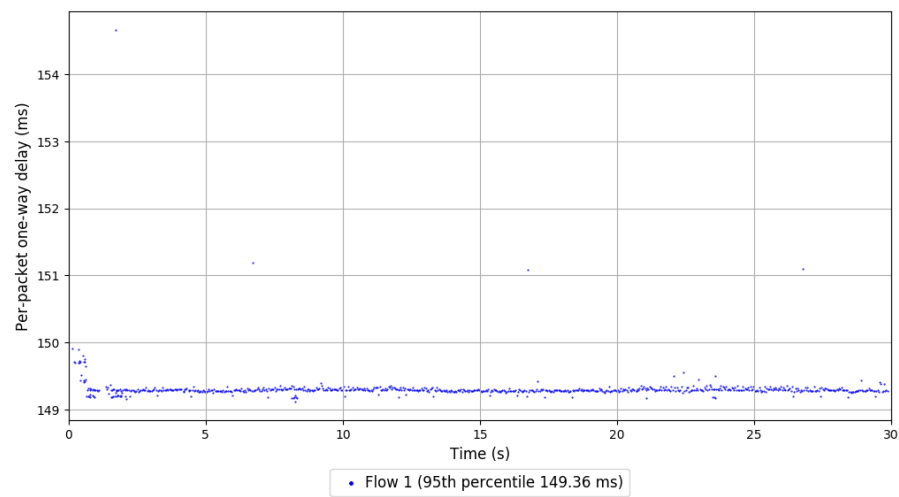
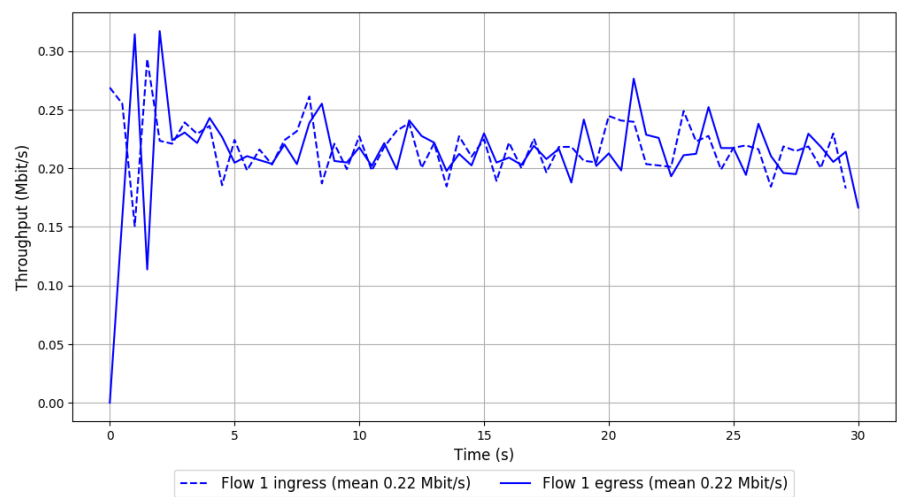


Run 4: Statistics of SCReAM

Start at: 2019-12-11 12:25:43
End at: 2019-12-11 12:26:13
Local clock offset: 5.564 ms
Remote clock offset: -46.184 ms

Below is generated by plot.py at 2019-12-11 13:59:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 149.358 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 149.358 ms
Loss rate: 0.64%

Run 4: Report of SReAM — Data Link

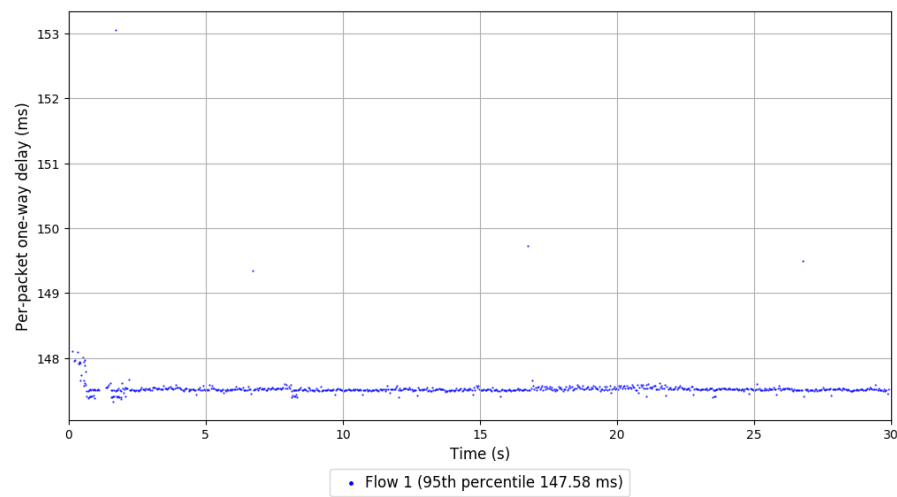
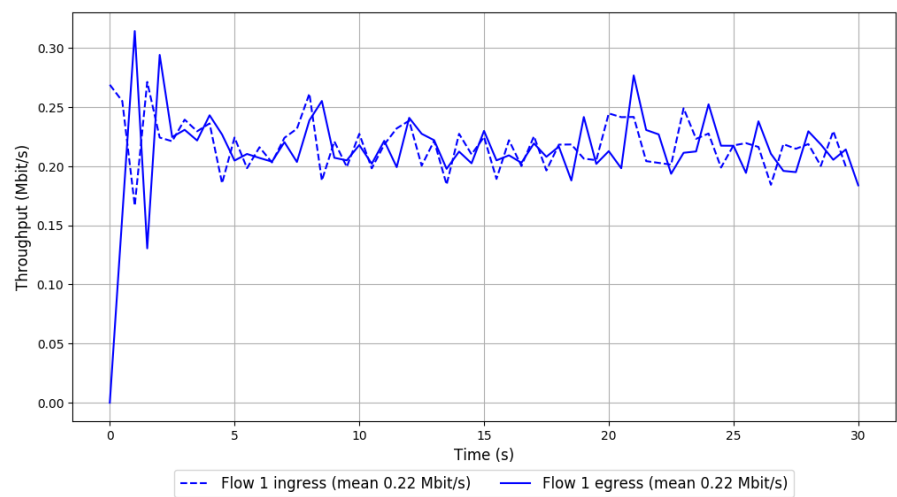


Run 5: Statistics of SCReAM

Start at: 2019-12-11 12:57:23
End at: 2019-12-11 12:57:53
Local clock offset: 4.492 ms
Remote clock offset: -44.909 ms

Below is generated by plot.py at 2019-12-11 13:59:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 147.584 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 147.584 ms
Loss rate: 0.63%

Run 5: Report of SReAM — Data Link

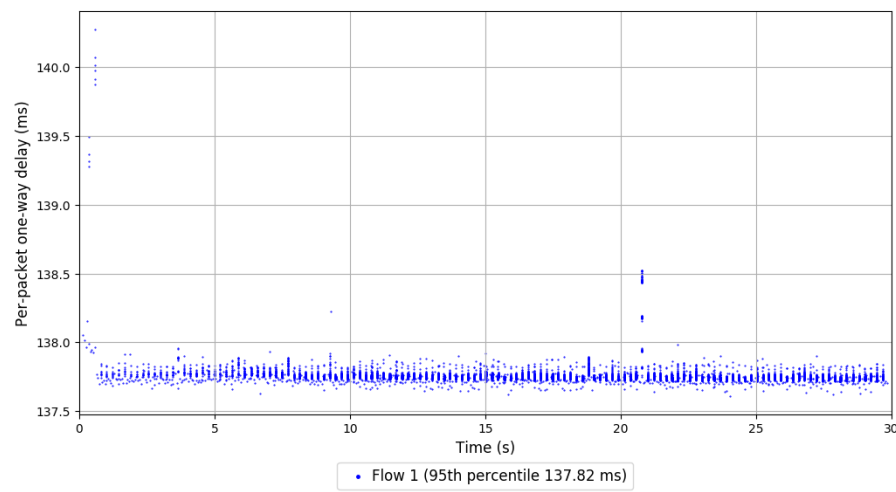
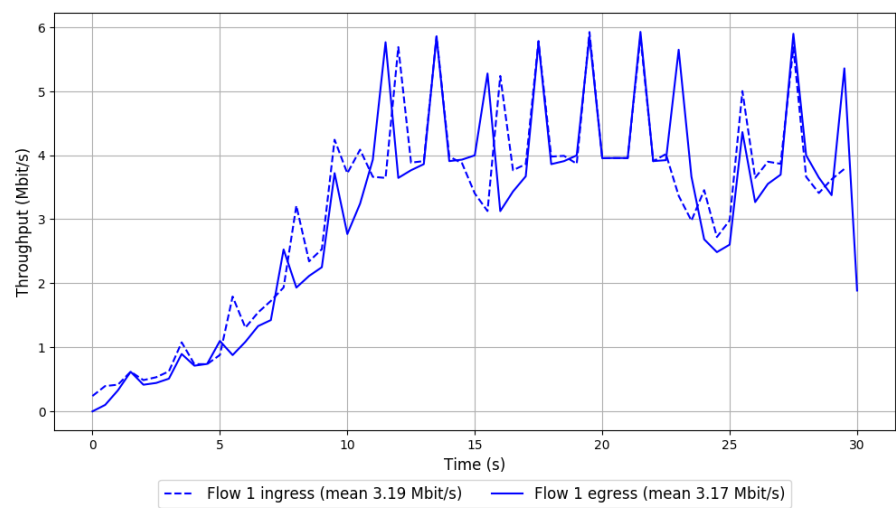


Run 1: Statistics of Sprout

Start at: 2019-12-11 11:17:08
End at: 2019-12-11 11:17:38
Local clock offset: 5.278 ms
Remote clock offset: -37.251 ms

Below is generated by plot.py at 2019-12-11 13:59:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.17 Mbit/s
95th percentile per-packet one-way delay: 137.818 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 3.17 Mbit/s
95th percentile per-packet one-way delay: 137.818 ms
Loss rate: 1.00%

Run 1: Report of Sprout — Data Link

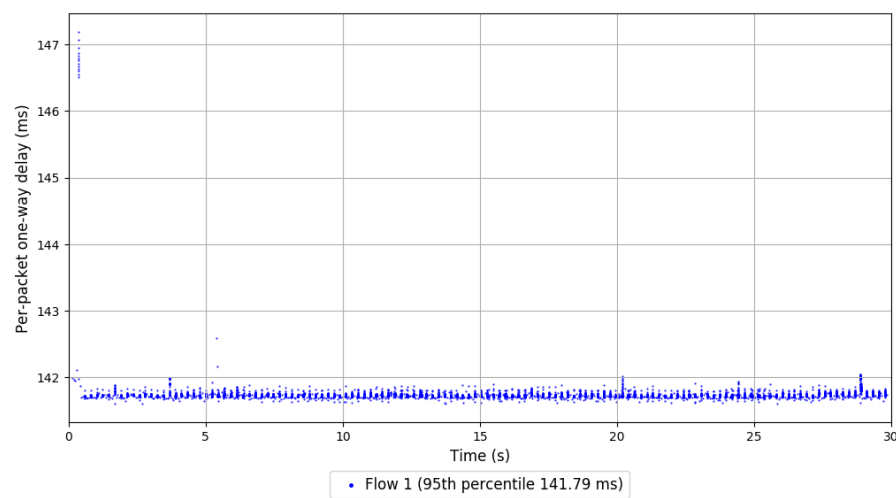
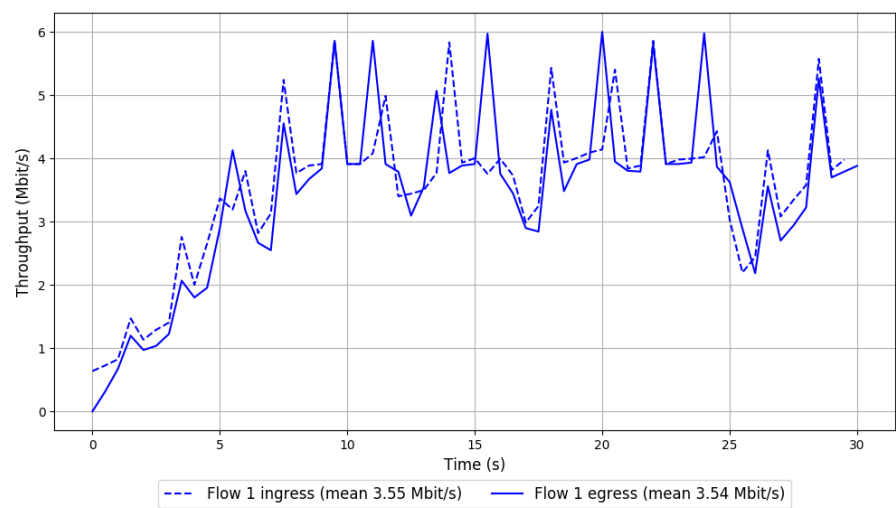


Run 2: Statistics of Sprout

Start at: 2019-12-11 11:48:26
End at: 2019-12-11 11:48:56
Local clock offset: 6.804 ms
Remote clock offset: -39.504 ms

Below is generated by plot.py at 2019-12-11 13:59:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.54 Mbit/s
95th percentile per-packet one-way delay: 141.787 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 3.54 Mbit/s
95th percentile per-packet one-way delay: 141.787 ms
Loss rate: 0.94%

Run 2: Report of Sprout — Data Link

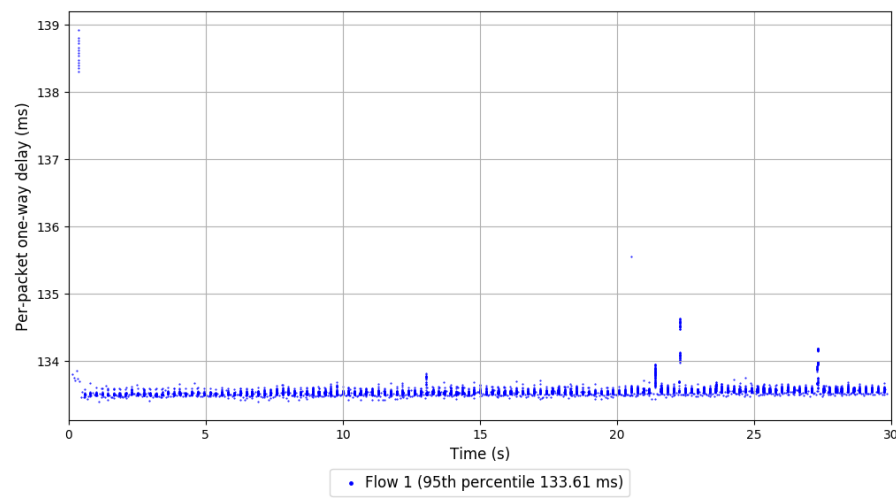
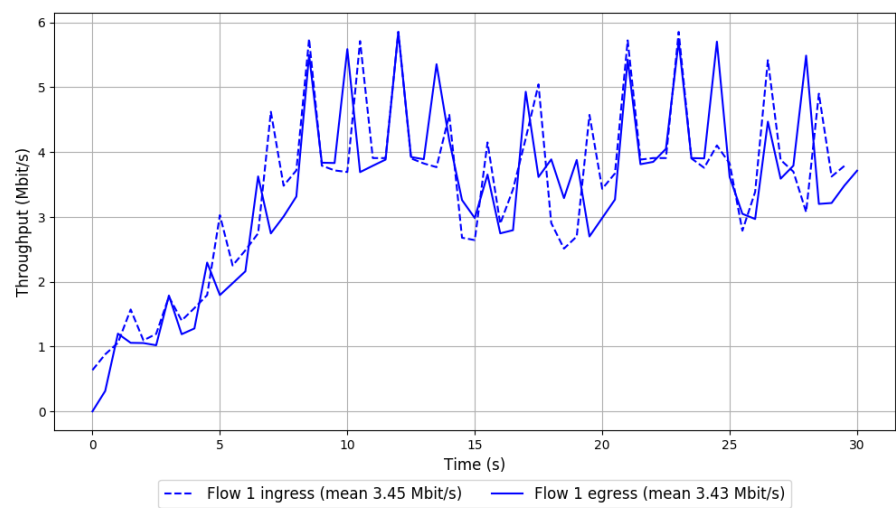


Run 3: Statistics of Sprout

Start at: 2019-12-11 12:19:38
End at: 2019-12-11 12:20:08
Local clock offset: 5.384 ms
Remote clock offset: -35.365 ms

Below is generated by plot.py at 2019-12-11 13:59:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.43 Mbit/s
95th percentile per-packet one-way delay: 133.611 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 3.43 Mbit/s
95th percentile per-packet one-way delay: 133.611 ms
Loss rate: 0.92%

Run 3: Report of Sprout — Data Link

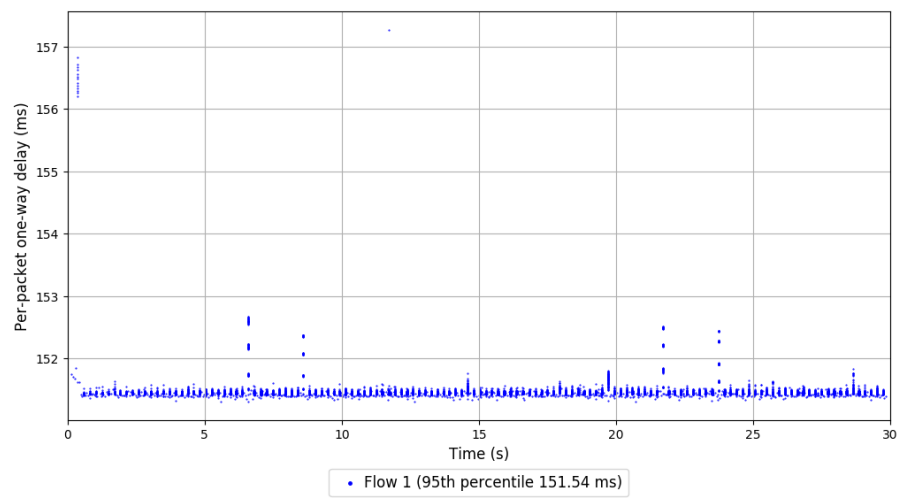
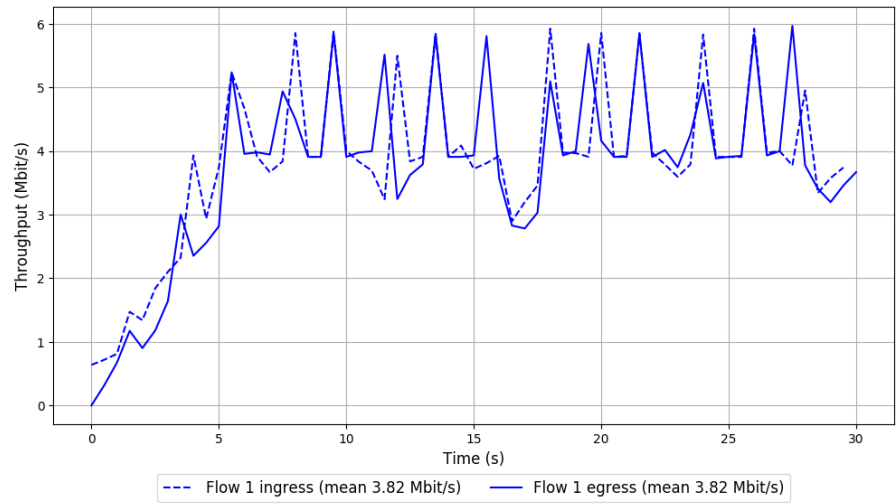


Run 4: Statistics of Sprout

Start at: 2019-12-11 12:51:18
End at: 2019-12-11 12:51:48
Local clock offset: 3.841 ms
Remote clock offset: -49.761 ms

Below is generated by plot.py at 2019-12-11 13:59:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 151.544 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 151.544 ms
Loss rate: 0.82%

Run 4: Report of Sprout — Data Link

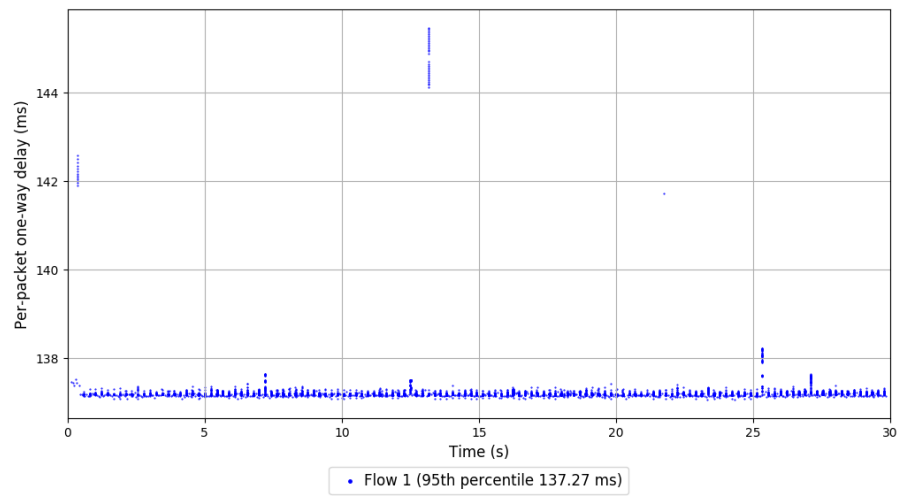
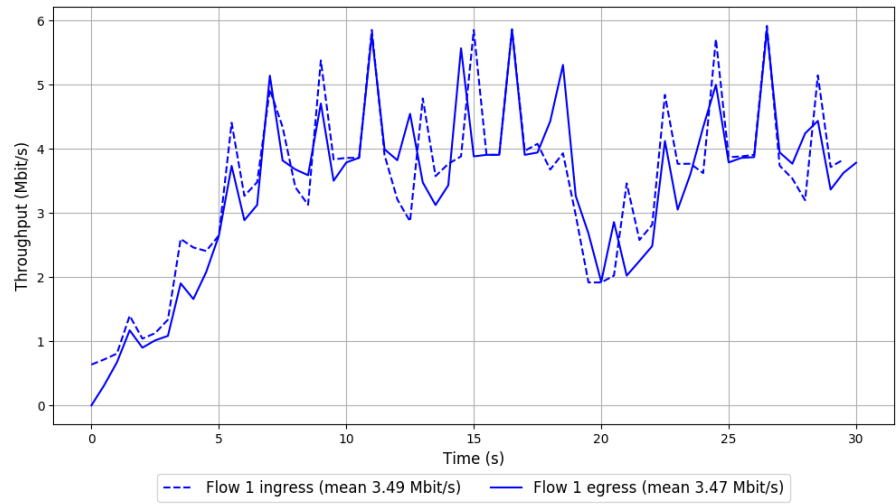


Run 5: Statistics of Sprout

Start at: 2019-12-11 13:22:47
End at: 2019-12-11 13:23:17
Local clock offset: 0.083 ms
Remote clock offset: -39.361 ms

Below is generated by plot.py at 2019-12-11 13:59:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.47 Mbit/s
95th percentile per-packet one-way delay: 137.273 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 3.47 Mbit/s
95th percentile per-packet one-way delay: 137.273 ms
Loss rate: 0.93%

Run 5: Report of Sprout — Data Link

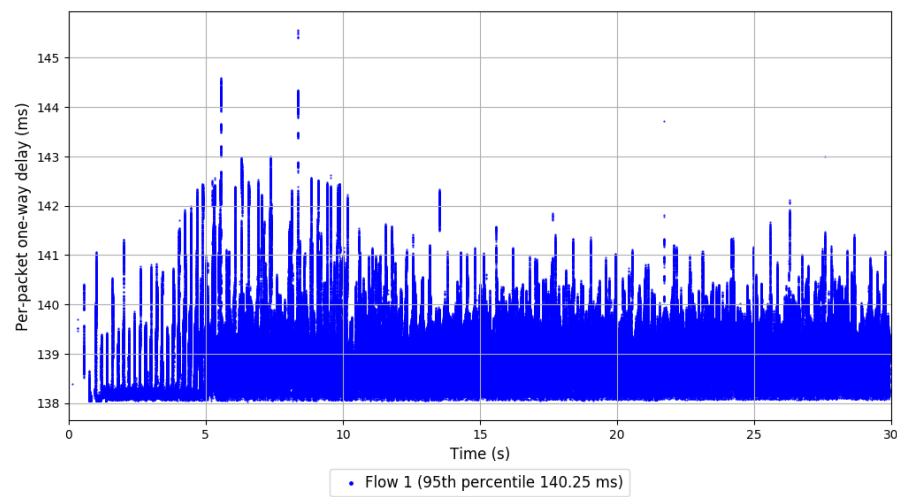
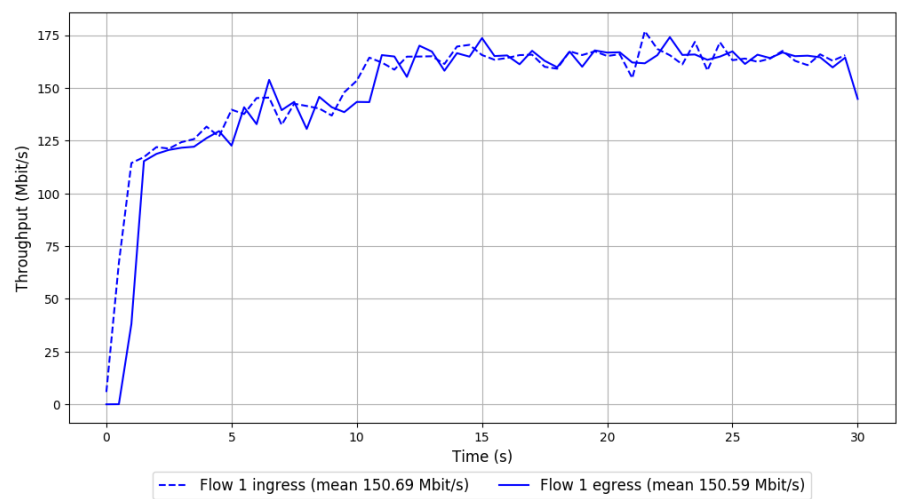


```
Run 1: Statistics of TaoVA-100x

Start at: 2019-12-11 11:04:07
End at: 2019-12-11 11:04:37
Local clock offset: 3.914 ms
Remote clock offset: -38.594 ms

# Below is generated by plot.py at 2019-12-11 14:00:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 150.59 Mbit/s
95th percentile per-packet one-way delay: 140.250 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 150.59 Mbit/s
95th percentile per-packet one-way delay: 140.250 ms
Loss rate: 0.73%
```

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

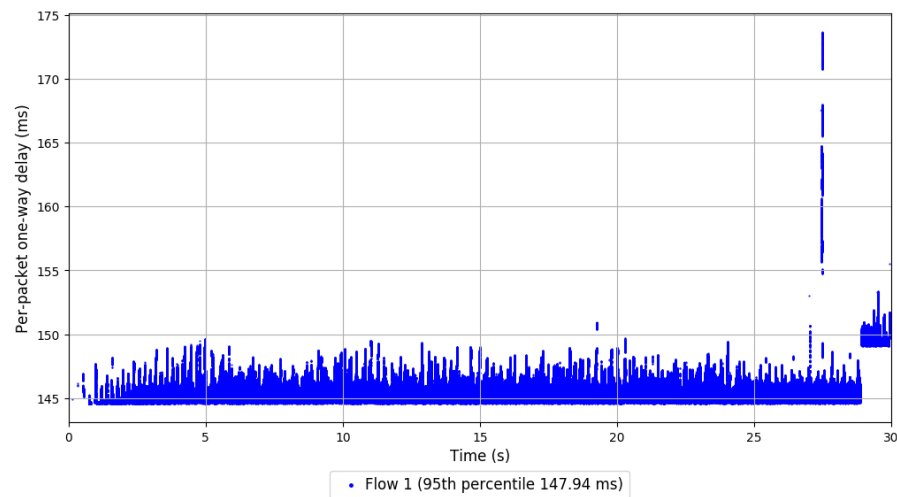
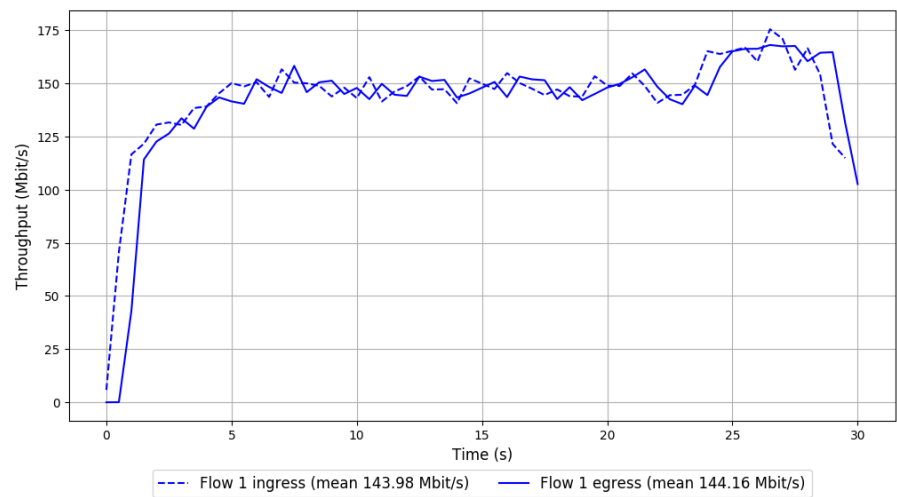


Run 2: Statistics of TaoVA-100x

Start at: 2019-12-11 11:35:24
End at: 2019-12-11 11:35:54
Local clock offset: 6.087 ms
Remote clock offset: -47.827 ms

Below is generated by plot.py at 2019-12-11 14:00:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 144.16 Mbit/s
95th percentile per-packet one-way delay: 147.941 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 144.16 Mbit/s
95th percentile per-packet one-way delay: 147.941 ms
Loss rate: 0.51%

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

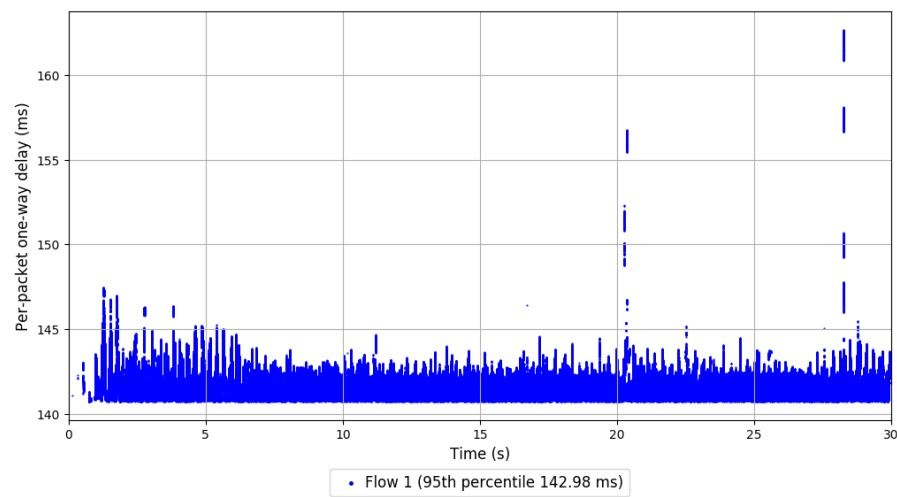
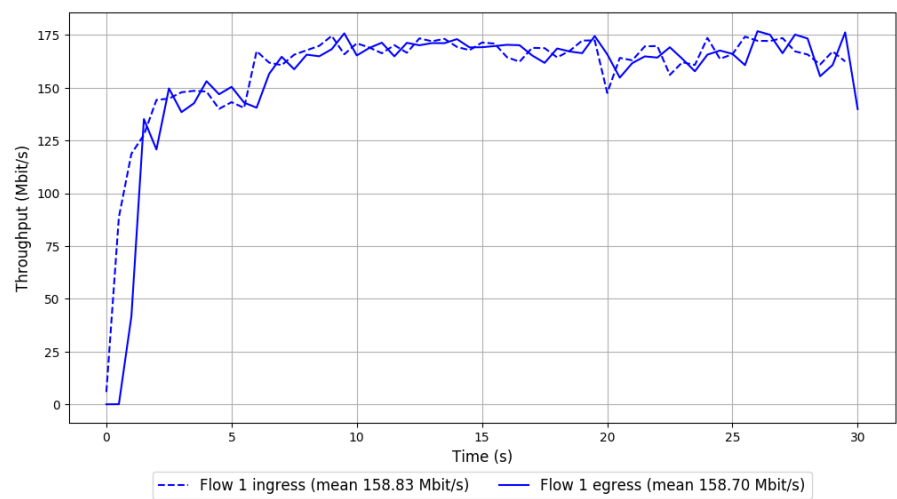


Run 3: Statistics of TaoVA-100x

Start at: 2019-12-11 12:06:43
End at: 2019-12-11 12:07:13
Local clock offset: 6.273 ms
Remote clock offset: -39.269 ms

Below is generated by plot.py at 2019-12-11 14:00:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 158.70 Mbit/s
95th percentile per-packet one-way delay: 142.976 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 158.70 Mbit/s
95th percentile per-packet one-way delay: 142.976 ms
Loss rate: 0.72%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-12-11 12:38:05

End at: 2019-12-11 12:38:35

Local clock offset: 5.065 ms

Remote clock offset: -47.08 ms

Below is generated by plot.py at 2019-12-11 14:01:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.99 Mbit/s

95th percentile per-packet one-way delay: 152.411 ms

Loss rate: 0.64%

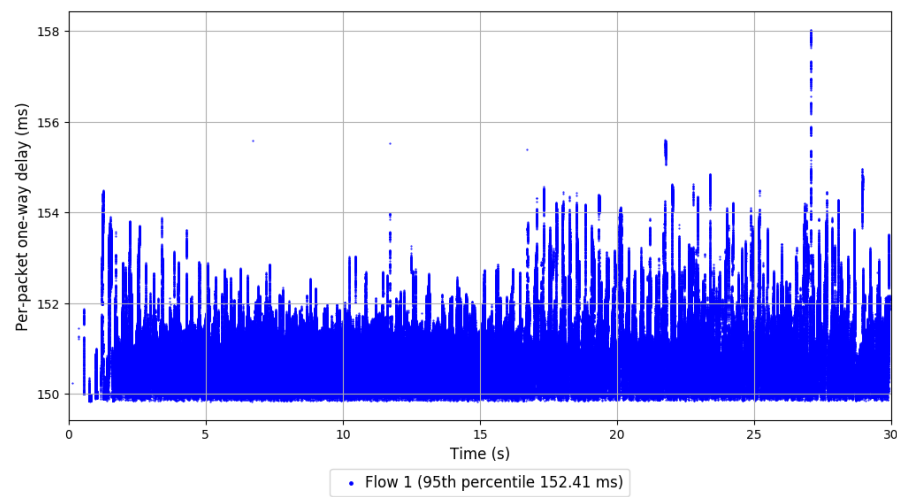
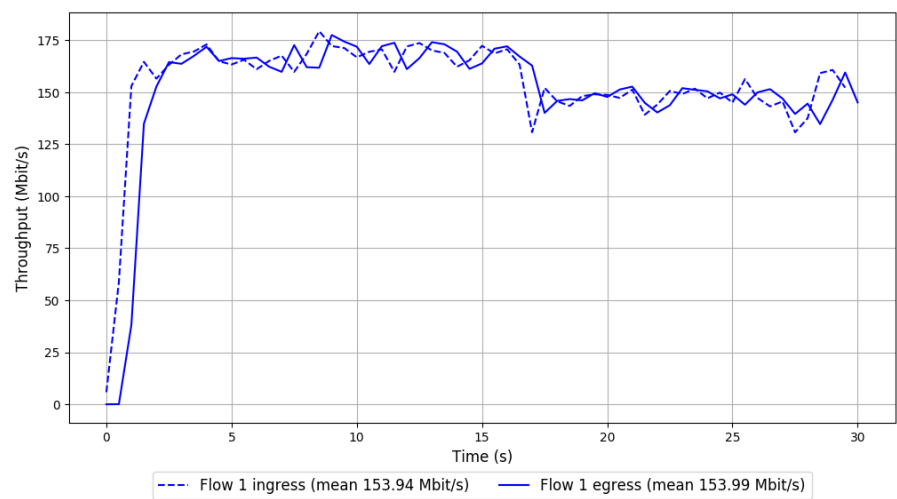
-- Flow 1:

Average throughput: 153.99 Mbit/s

95th percentile per-packet one-way delay: 152.411 ms

Loss rate: 0.64%

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

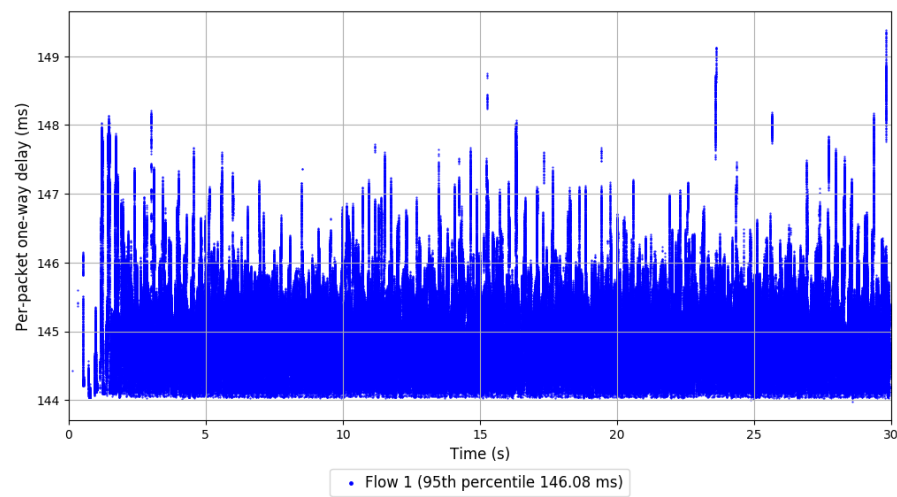
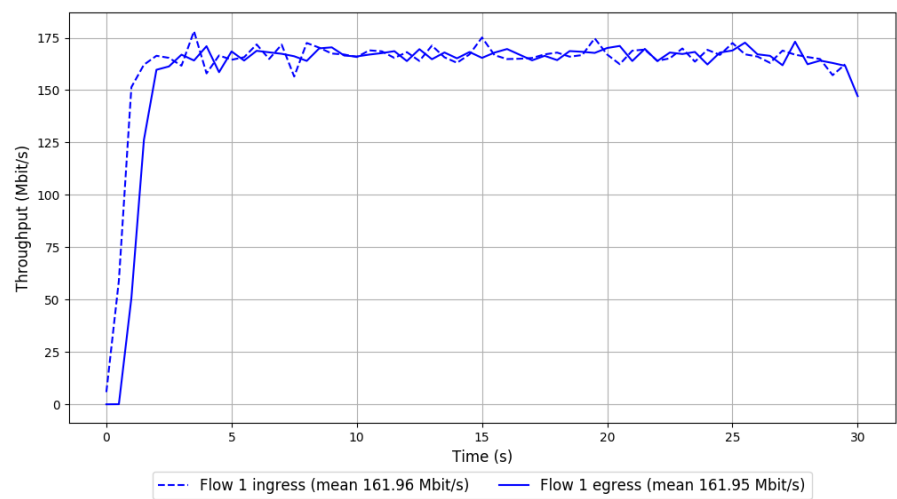


Run 5: Statistics of TaoVA-100x

Start at: 2019-12-11 13:09:41
End at: 2019-12-11 13:10:11
Local clock offset: 4.12 ms
Remote clock offset: -46.675 ms

Below is generated by plot.py at 2019-12-11 14:01:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 161.95 Mbit/s
95th percentile per-packet one-way delay: 146.083 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 161.95 Mbit/s
95th percentile per-packet one-way delay: 146.083 ms
Loss rate: 0.66%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-12-11 11:10:48

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

Local clock offset: 4.946 ms

Remote clock offset: -41.393 ms

Run 1: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of TCP Vegas

Start at: 2019-12-11 11:42:06

End at: 2019-12-11 11:42:36

Local clock offset: 6.646 ms

Remote clock offset: -46.42 ms

Run 2: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of TCP Vegas

Start at: 2019-12-11 12:13:32

End at: 2019-12-11 12:14:02

Local clock offset: 5.701 ms

Remote clock offset: -39.847 ms

Run 3: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of TCP Vegas

Start at: 2019-12-11 12:44:52

End at: 2019-12-11 12:45:22

Local clock offset: 3.573 ms

Remote clock offset: -40.036 ms

Run 4: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of TCP Vegas

Start at: 2019-12-11 13:16:26

End at: 2019-12-11 13:16:56

Local clock offset: 3.825 ms

Remote clock offset: -46.079 ms

Run 5: Report of TCP Vegas — Data Link

Figure is missing

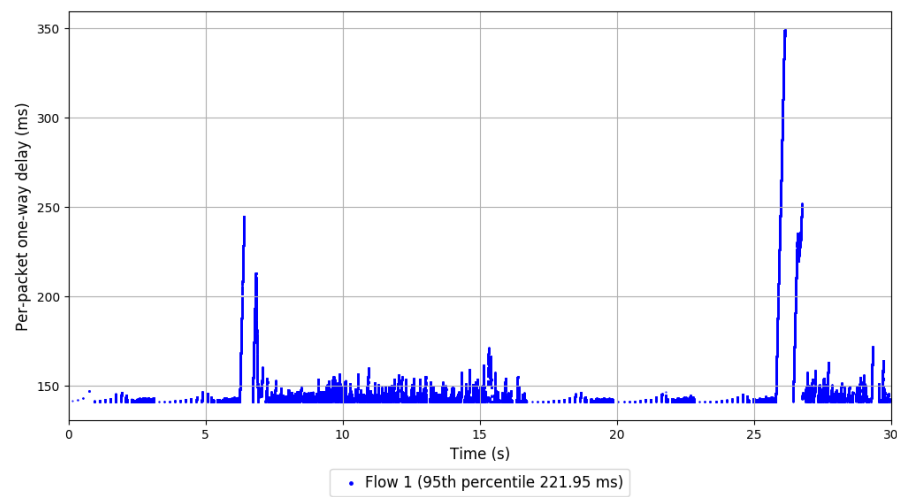
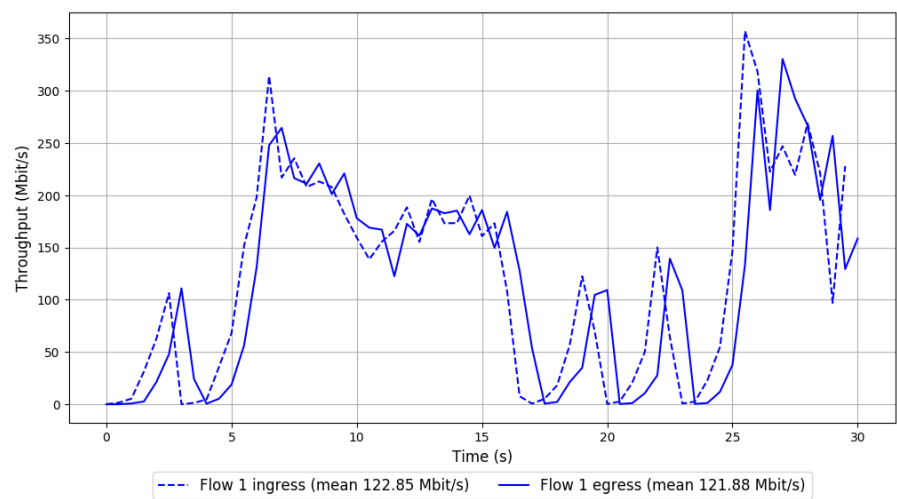
Figure is missing

Run 1: Statistics of Verus

Start at: 2019-12-11 11:06:51
End at: 2019-12-11 11:07:21
Local clock offset: 4.109 ms
Remote clock offset: -41.001 ms

Below is generated by plot.py at 2019-12-11 14:01:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 121.88 Mbit/s
95th percentile per-packet one-way delay: 221.947 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 121.88 Mbit/s
95th percentile per-packet one-way delay: 221.947 ms
Loss rate: 1.44%

Run 1: Report of Verus — Data Link

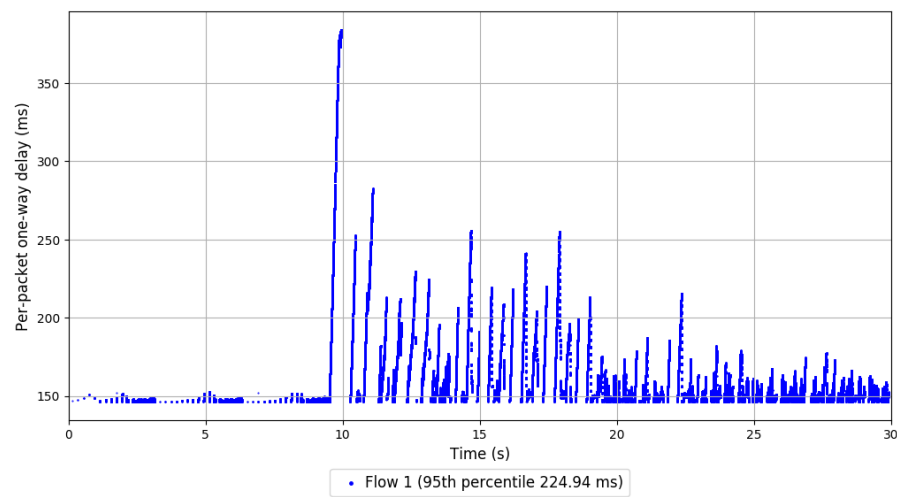
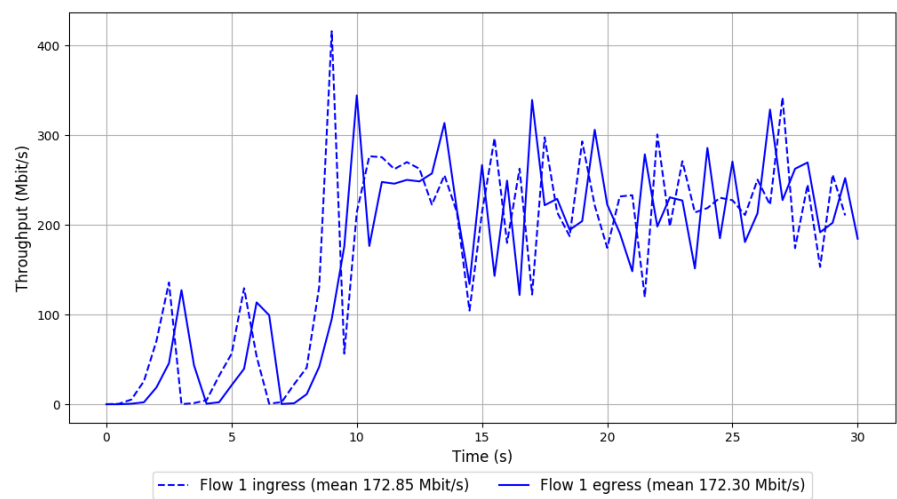


Run 2: Statistics of Verus

Start at: 2019-12-11 11:38:07
End at: 2019-12-11 11:38:37
Local clock offset: 6.695 ms
Remote clock offset: -44.446 ms

Below is generated by plot.py at 2019-12-11 14:01:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 172.30 Mbit/s
95th percentile per-packet one-way delay: 224.938 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 172.30 Mbit/s
95th percentile per-packet one-way delay: 224.938 ms
Loss rate: 0.60%

Run 2: Report of Verus — Data Link

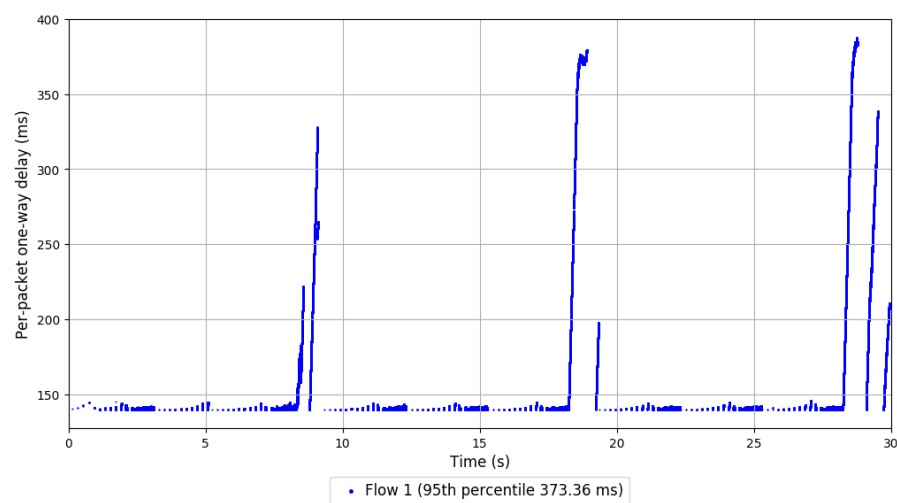
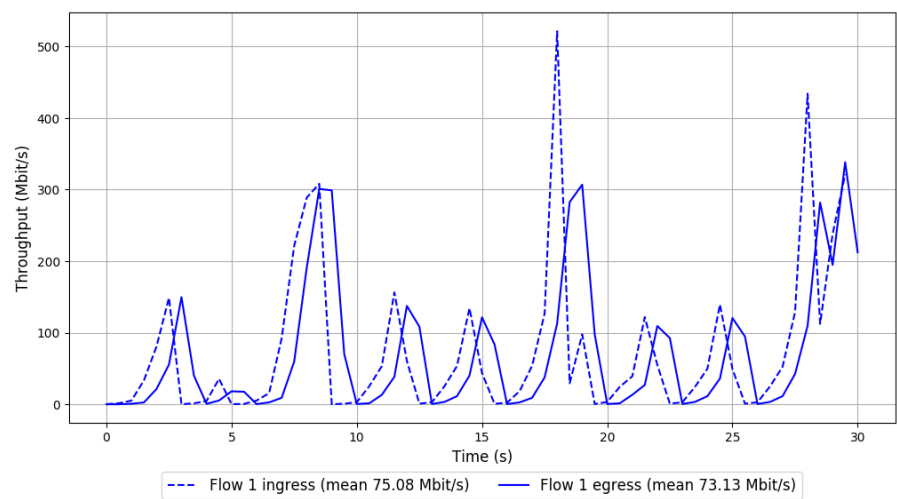


Run 3: Statistics of Verus

Start at: 2019-12-11 12:09:29
End at: 2019-12-11 12:09:59
Local clock offset: 7.284 ms
Remote clock offset: -36.907 ms

Below is generated by plot.py at 2019-12-11 14:01:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 73.13 Mbit/s
95th percentile per-packet one-way delay: 373.360 ms
Loss rate: 2.72%
-- Flow 1:
Average throughput: 73.13 Mbit/s
95th percentile per-packet one-way delay: 373.360 ms
Loss rate: 2.72%

Run 3: Report of Verus — Data Link

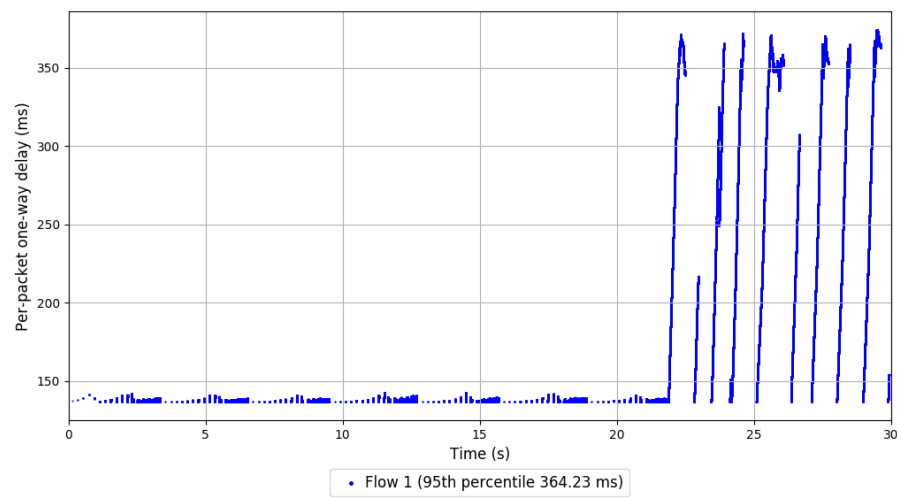
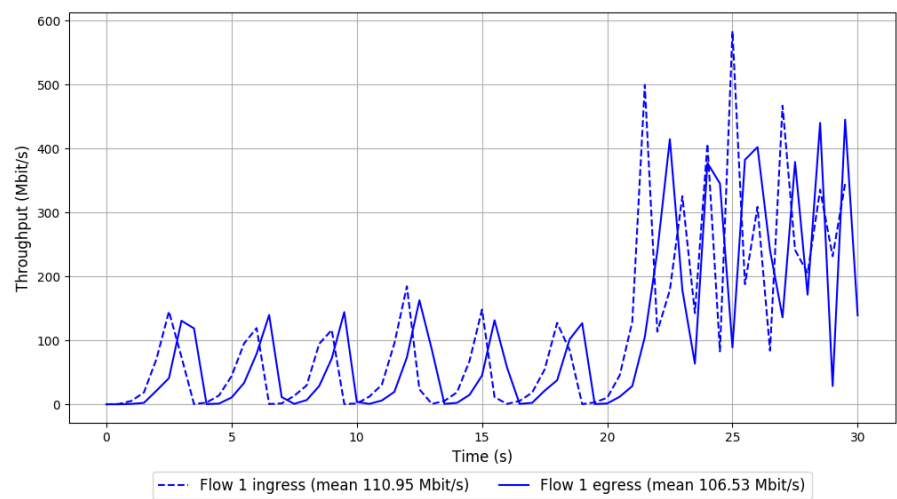


Run 4: Statistics of Verus

Start at: 2019-12-11 12:40:52
End at: 2019-12-11 12:41:22
Local clock offset: 3.399 ms
Remote clock offset: -35.317 ms

Below is generated by plot.py at 2019-12-11 14:01:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 106.53 Mbit/s
95th percentile per-packet one-way delay: 364.225 ms
Loss rate: 4.63%
-- Flow 1:
Average throughput: 106.53 Mbit/s
95th percentile per-packet one-way delay: 364.225 ms
Loss rate: 4.63%

Run 4: Report of Verus — Data Link

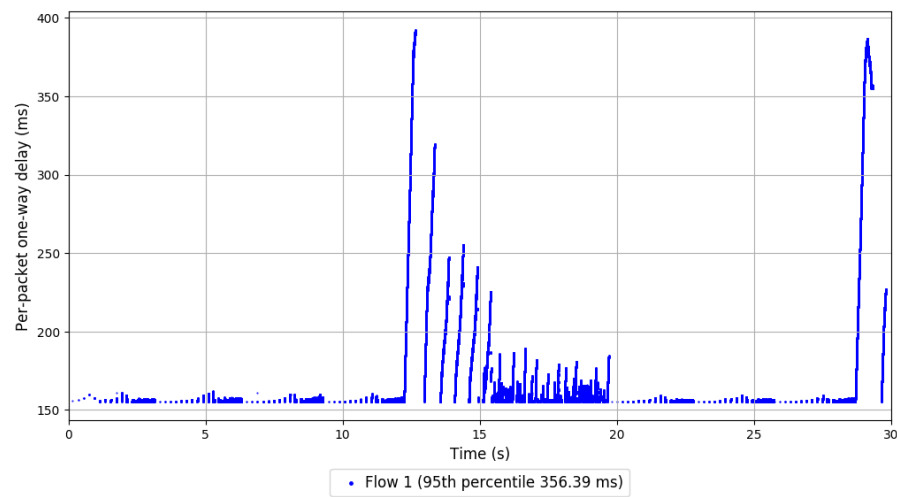
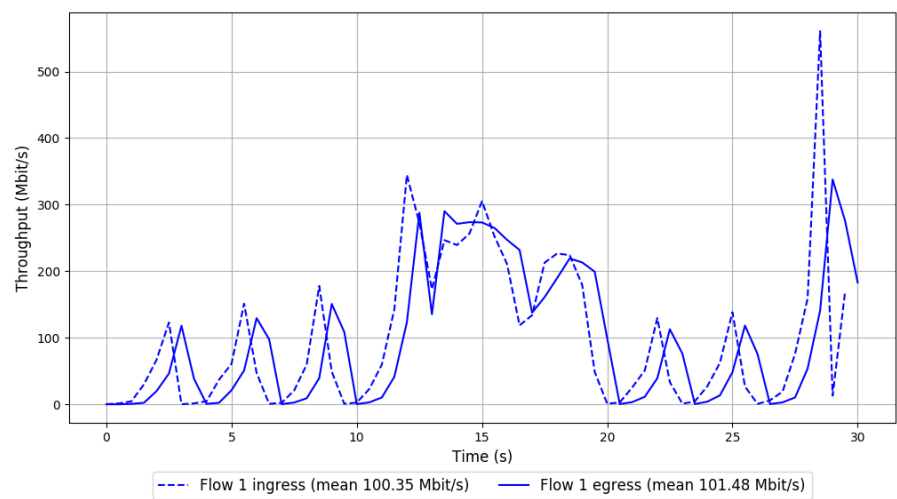


Run 5: Statistics of Verus

Start at: 2019-12-11 13:12:30
End at: 2019-12-11 13:13:00
Local clock offset: 3.243 ms
Remote clock offset: -54.266 ms

Below is generated by plot.py at 2019-12-11 14:01:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 101.48 Mbit/s
95th percentile per-packet one-way delay: 356.391 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 101.48 Mbit/s
95th percentile per-packet one-way delay: 356.391 ms
Loss rate: 0.02%

Run 5: Report of Verus — Data Link

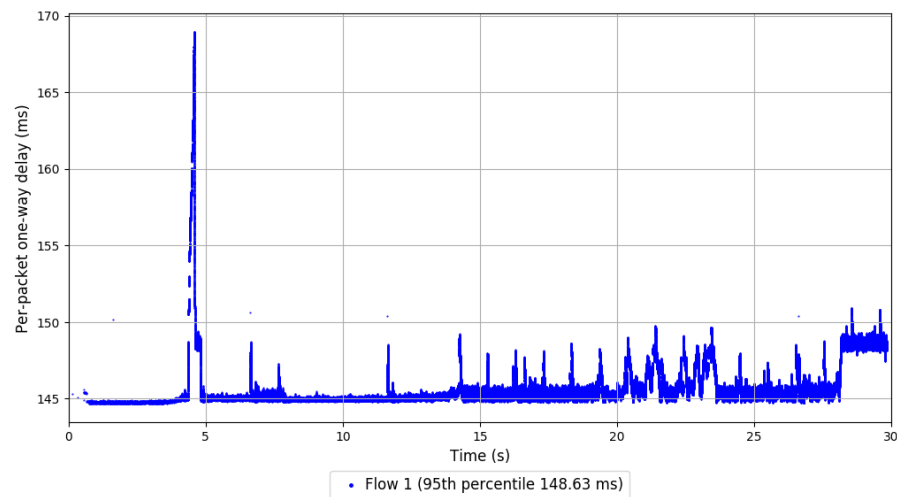
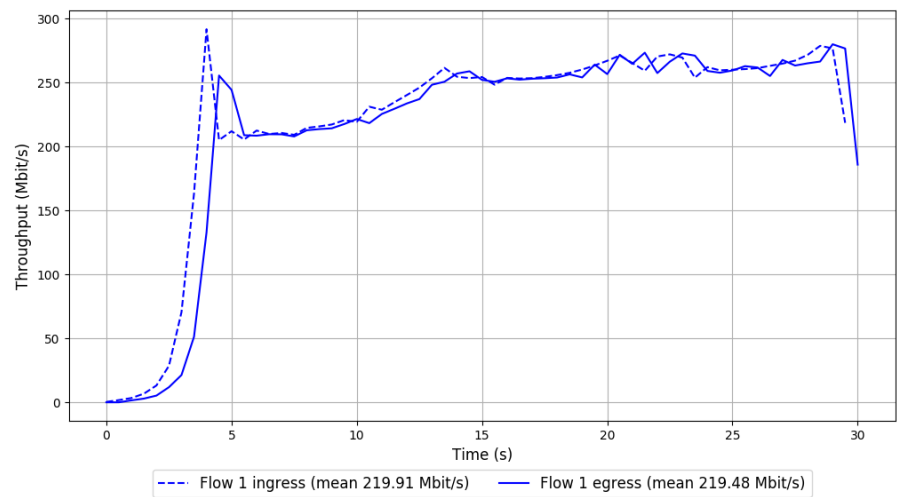


Run 1: Statistics of PCC-Vivace

Start at: 2019-12-11 11:08:09
End at: 2019-12-11 11:08:39
Local clock offset: 4.286 ms
Remote clock offset: -44.591 ms

Below is generated by plot.py at 2019-12-11 14:02:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 219.48 Mbit/s
95th percentile per-packet one-way delay: 148.627 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 219.48 Mbit/s
95th percentile per-packet one-way delay: 148.627 ms
Loss rate: 0.87%

Run 1: Report of PCC-Vivace — Data Link

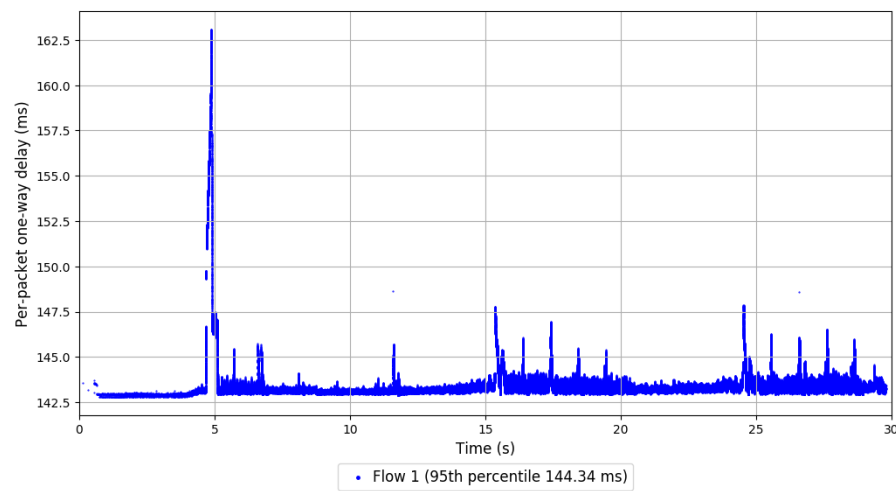
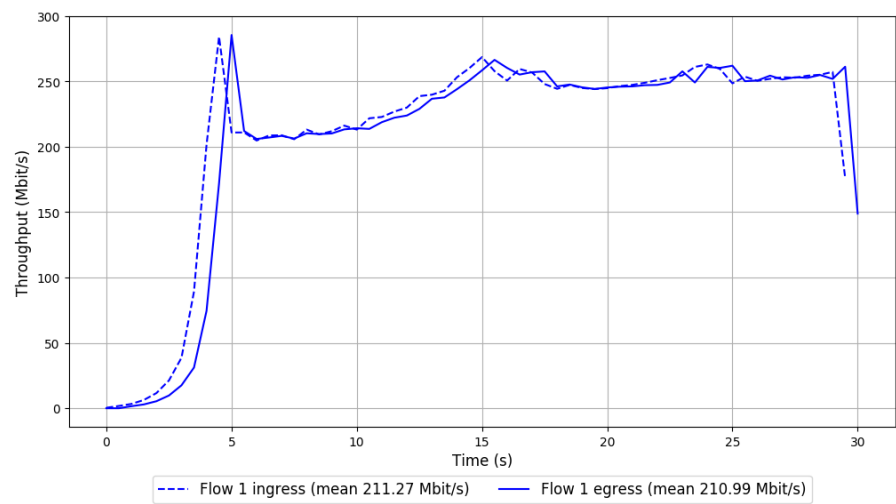


Run 2: Statistics of PCC-Vivace

Start at: 2019-12-11 11:39:27
End at: 2019-12-11 11:39:57
Local clock offset: 5.855 ms
Remote clock offset: -46.365 ms

Below is generated by plot.py at 2019-12-11 14:02:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 210.99 Mbit/s
95th percentile per-packet one-way delay: 144.341 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 210.99 Mbit/s
95th percentile per-packet one-way delay: 144.341 ms
Loss rate: 0.78%

Run 2: Report of PCC-Vivace — Data Link

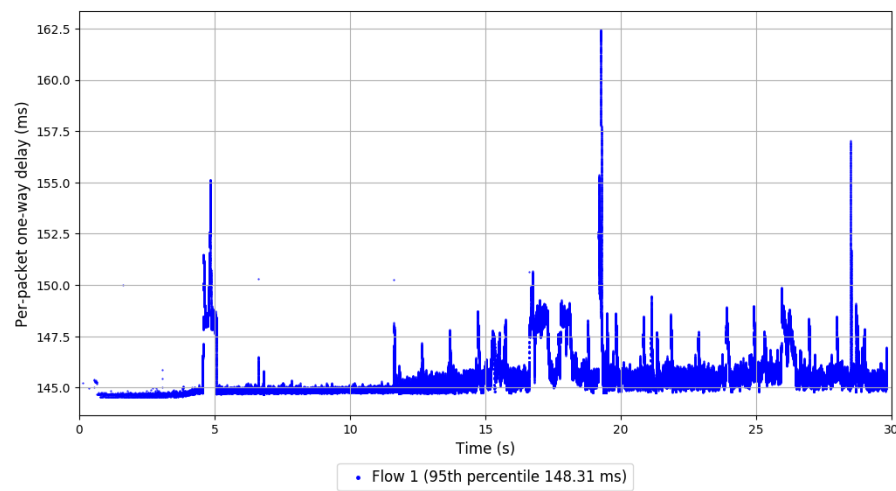
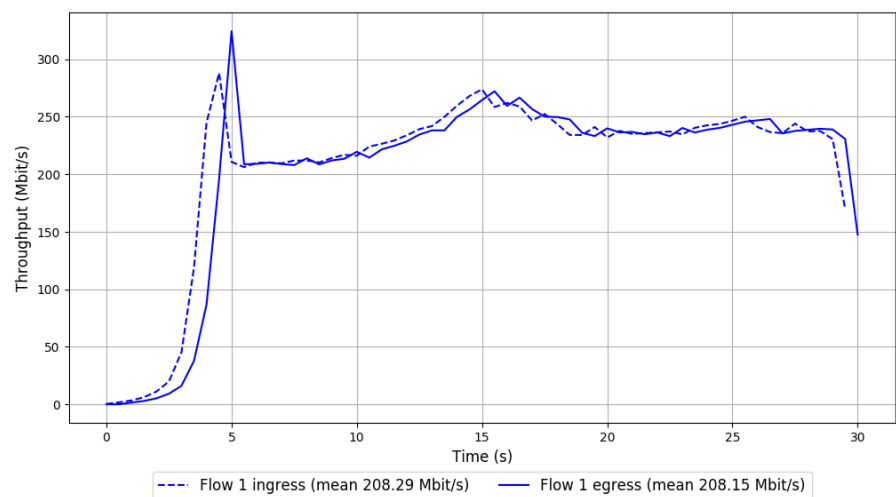


Run 3: Statistics of PCC-Vivace

Start at: 2019-12-11 12:10:44
End at: 2019-12-11 12:11:14
Local clock offset: 6.321 ms
Remote clock offset: -42.352 ms

Below is generated by plot.py at 2019-12-11 14:02:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 208.15 Mbit/s
95th percentile per-packet one-way delay: 148.312 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 208.15 Mbit/s
95th percentile per-packet one-way delay: 148.312 ms
Loss rate: 0.73%

Run 3: Report of PCC-Vivace — Data Link

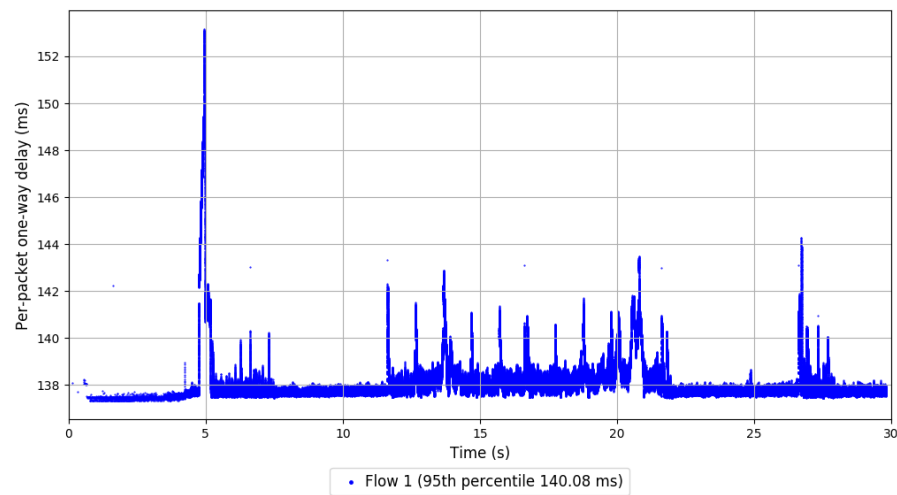
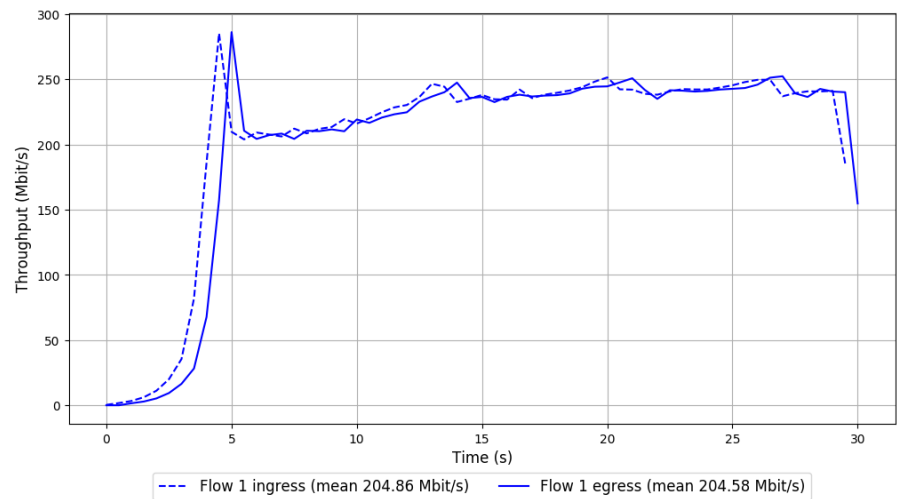


Run 4: Statistics of PCC-Vivace

Start at: 2019-12-11 12:42:09
End at: 2019-12-11 12:42:39
Local clock offset: 3.912 ms
Remote clock offset: -35.915 ms

Below is generated by plot.py at 2019-12-11 14:02:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 204.58 Mbit/s
95th percentile per-packet one-way delay: 140.084 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 204.58 Mbit/s
95th percentile per-packet one-way delay: 140.084 ms
Loss rate: 0.80%

Run 4: Report of PCC-Vivace — Data Link

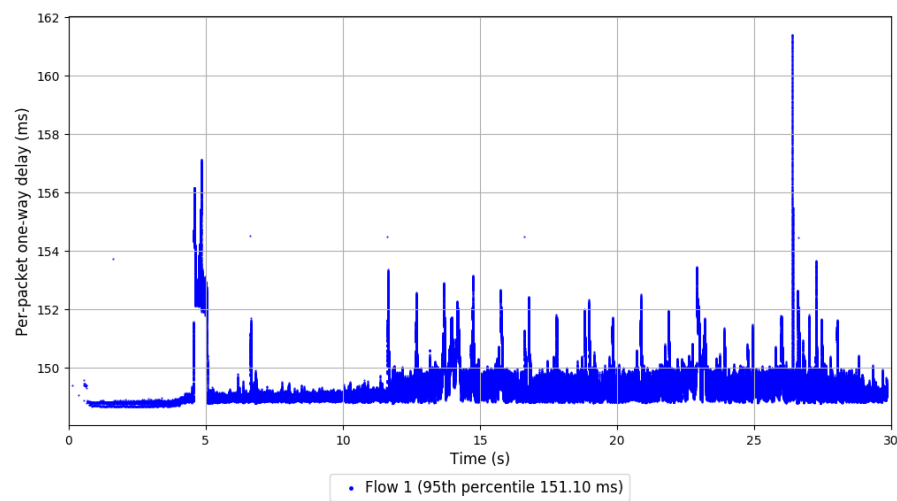
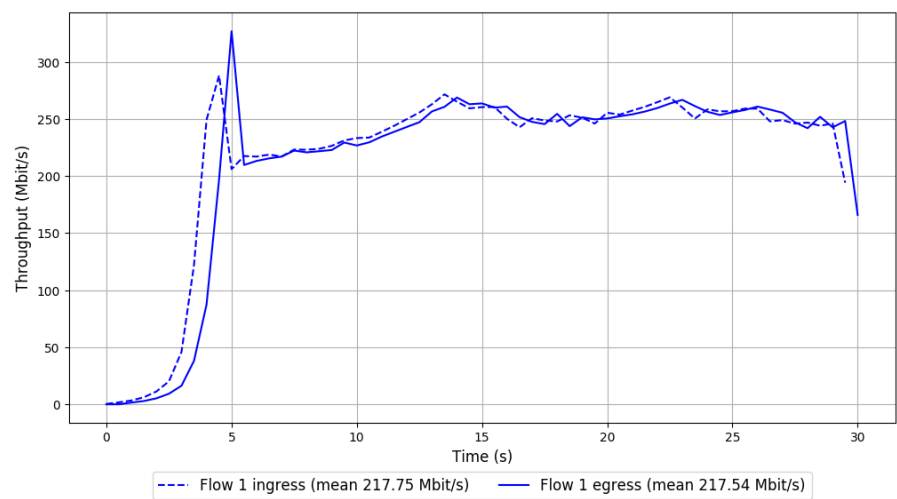


Run 5: Statistics of PCC-Vivace

Start at: 2019-12-11 13:13:46
End at: 2019-12-11 13:14:16
Local clock offset: 4.37 ms
Remote clock offset: -46.664 ms

Below is generated by plot.py at 2019-12-11 14:02:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 217.54 Mbit/s
95th percentile per-packet one-way delay: 151.104 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 217.54 Mbit/s
95th percentile per-packet one-way delay: 151.104 ms
Loss rate: 0.76%

Run 5: Report of PCC-Vivace — Data Link

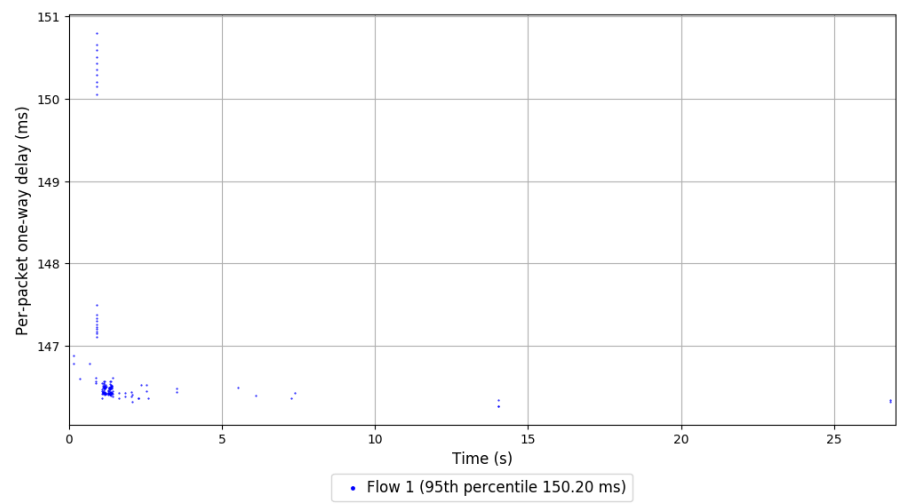
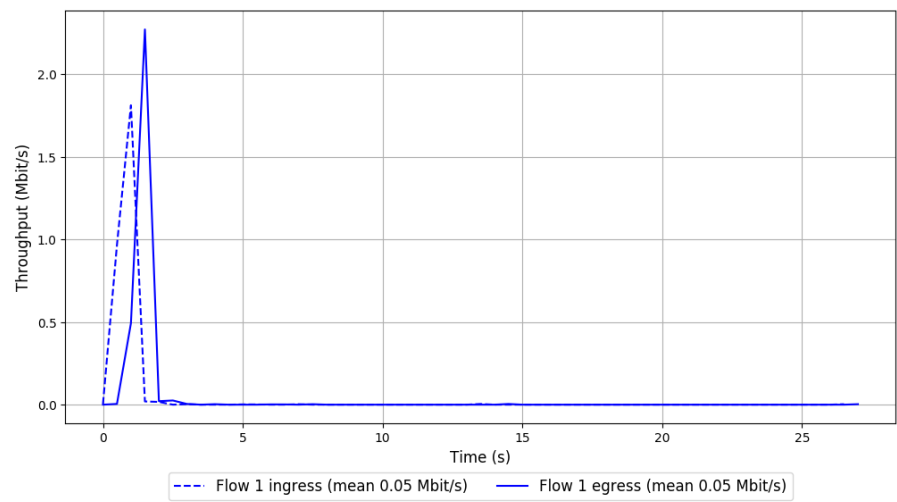


Run 1: Statistics of WebRTC media

Start at: 2019-12-11 11:11:57
End at: 2019-12-11 11:12:27
Local clock offset: 4.029 ms
Remote clock offset: -46.958 ms

Below is generated by plot.py at 2019-12-11 14:02:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 150.204 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 150.204 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

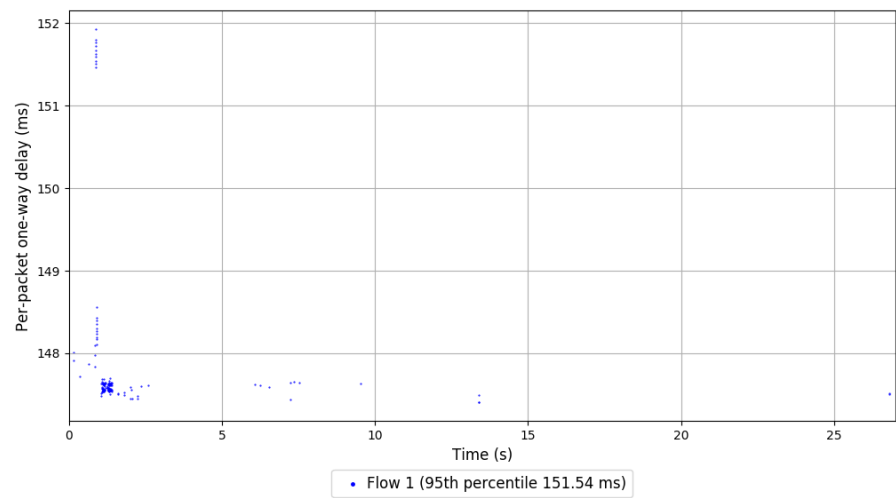
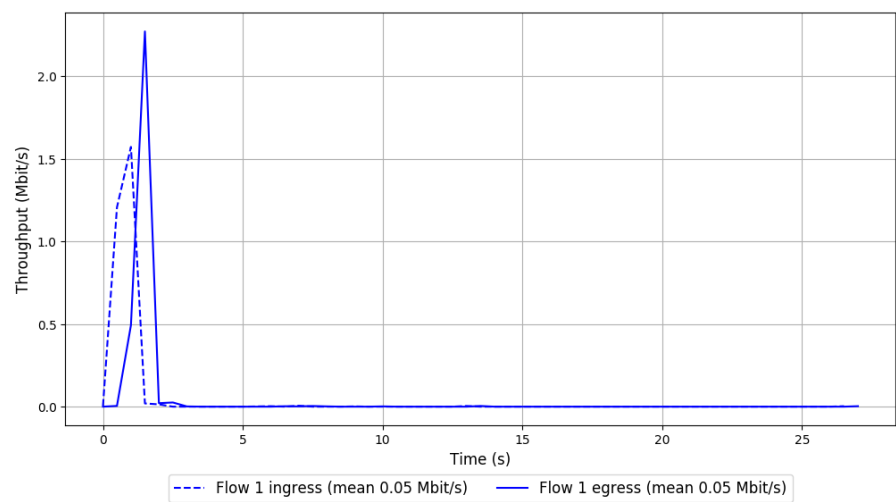


Run 2: Statistics of WebRTC media

Start at: 2019-12-11 11:43:15
End at: 2019-12-11 11:43:45
Local clock offset: 6.168 ms
Remote clock offset: -45.944 ms

Below is generated by plot.py at 2019-12-11 14:02:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 151.537 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 151.537 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

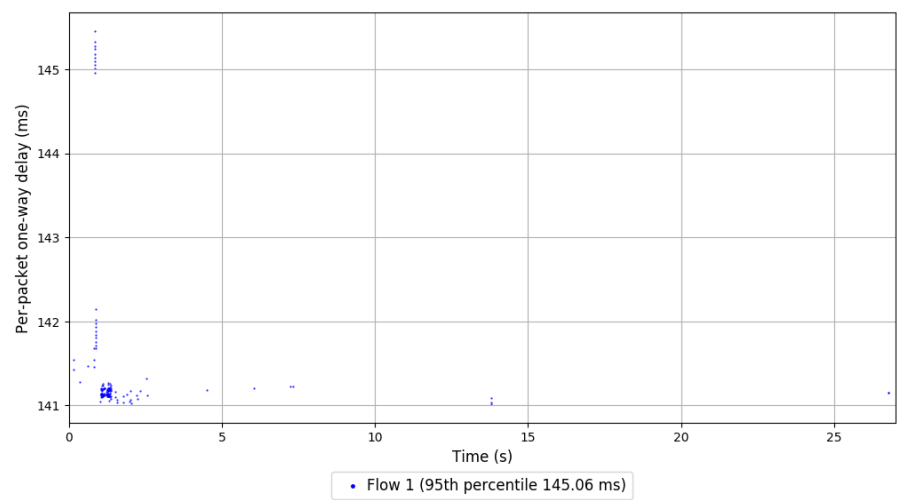
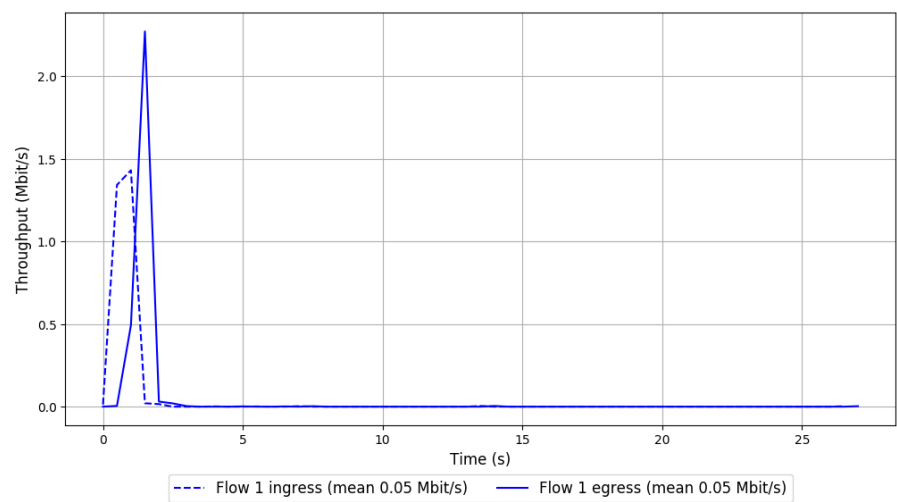


Run 3: Statistics of WebRTC media

Start at: 2019-12-11 12:14:41
End at: 2019-12-11 12:15:11
Local clock offset: 5.704 ms
Remote clock offset: -38.676 ms

Below is generated by plot.py at 2019-12-11 14:02:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 145.056 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 145.056 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

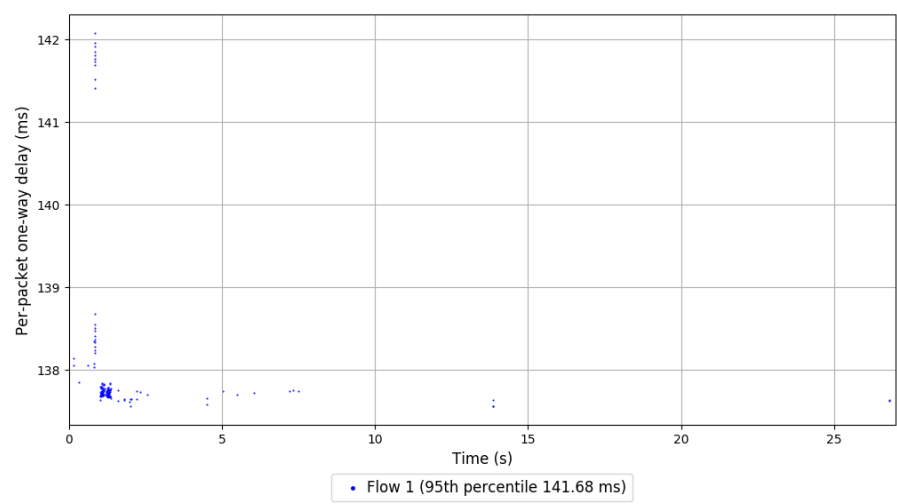
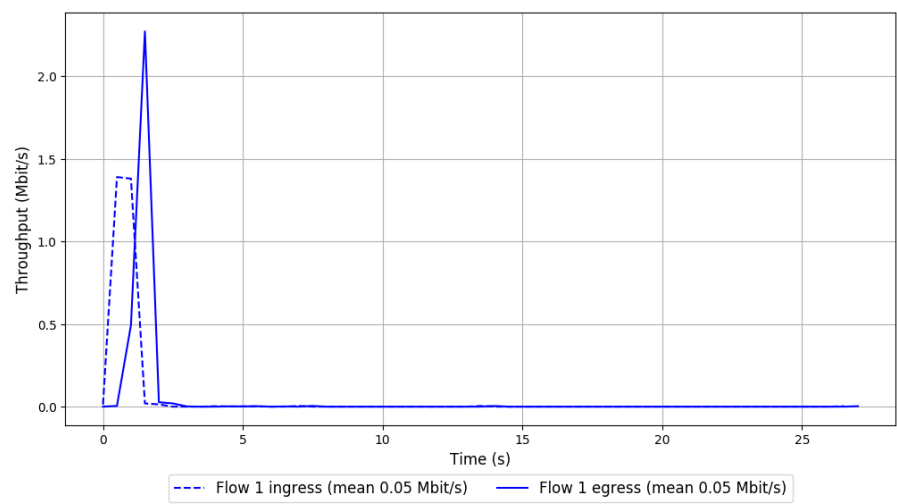


Run 4: Statistics of WebRTC media

Start at: 2019-12-11 12:46:02
End at: 2019-12-11 12:46:32
Local clock offset: 3.748 ms
Remote clock offset: -36.104 ms

Below is generated by plot.py at 2019-12-11 14:02:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 141.682 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 141.682 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-12-11 13:17:35
End at: 2019-12-11 13:18:05
Local clock offset: 4.033 ms
Remote clock offset: -43.978 ms

Below is generated by plot.py at 2019-12-11 14:02:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 145.879 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 145.879 ms
Loss rate: 0.05%

Run 5: Report of WebRTC media — Data Link

