

Pantheon Report

Generated at 2019-11-24 03:03:22 (UTC).

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

System info:

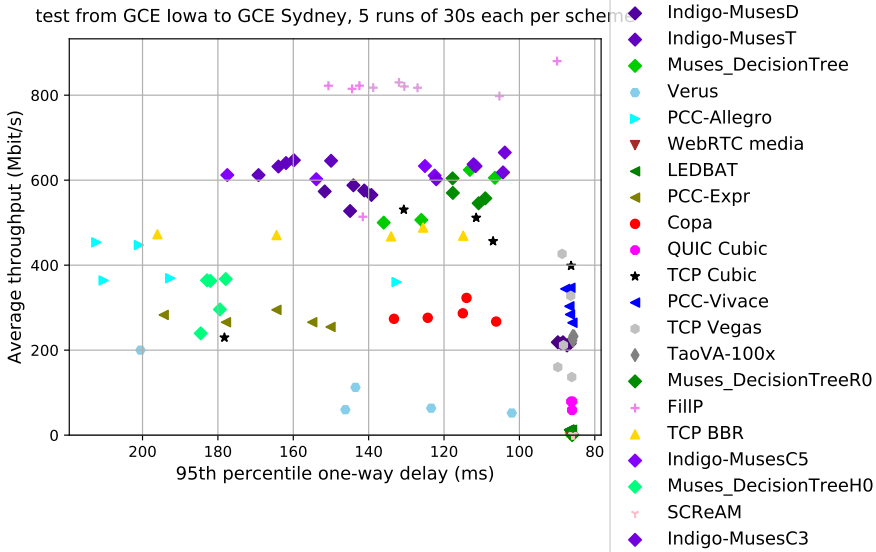
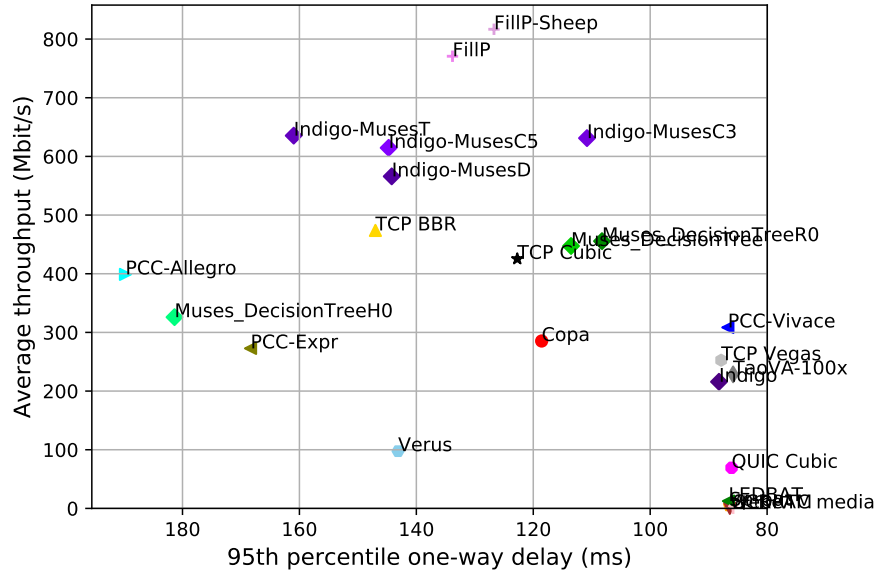
```
Linux 4.15.0-1044-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
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 Iowa to GCE Sydney, 5 runs of 30s each per scheme
(mean of all runs by scheme)



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	473.84	147.00	0.77
Copa	5	285.34	118.56	0.65
TCP Cubic	5	425.31	122.73	0.75
FillP	5	770.72	133.81	1.75
FillP-Sheep	5	816.71	126.72	0.97
Indigo	5	215.84	88.23	0.63
Indigo-MusesC3	5	631.17	110.81	0.66
Indigo-MusesC5	4	614.62	144.74	0.84
Indigo-MusesD	5	565.97	144.21	0.76
Indigo-MusesT	5	635.39	160.98	0.99
LEDBAT	5	12.52	86.61	1.15
Muses_DecisionTree	5	447.29	113.54	0.70
Muses_DecisionTreeH0	5	325.99	181.37	6.03
Muses_DecisionTreeR0	5	455.58	108.24	0.61
PCC-Allegro	5	398.89	189.76	2.70
PCC-Expr	5	272.75	168.36	1.20
QUIC Cubic	4	69.23	86.08	0.47
SCReAM	5	0.22	85.83	0.56
Sprout	5	4.56	86.46	0.69
TaoVA-100x	5	228.47	85.81	0.61
TCP Vegas	5	252.58	87.86	0.49
Verus	5	97.57	143.13	0.63
PCC-Vivace	5	308.47	86.72	0.69
WebRTC media	2	0.05	86.38	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-11-23 22:15:05

End at: 2019-11-23 22:15:35

Local clock offset: 4.344 ms

Remote clock offset: 4.437 ms

Below is generated by plot.py at 2019-11-24 01:26:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 469.37 Mbit/s

95th percentile per-packet one-way delay: 114.914 ms

Loss rate: 0.65%

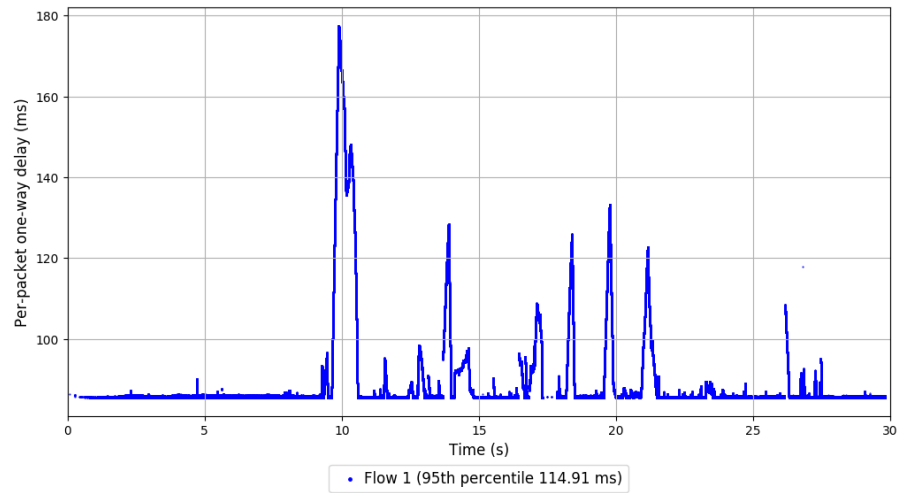
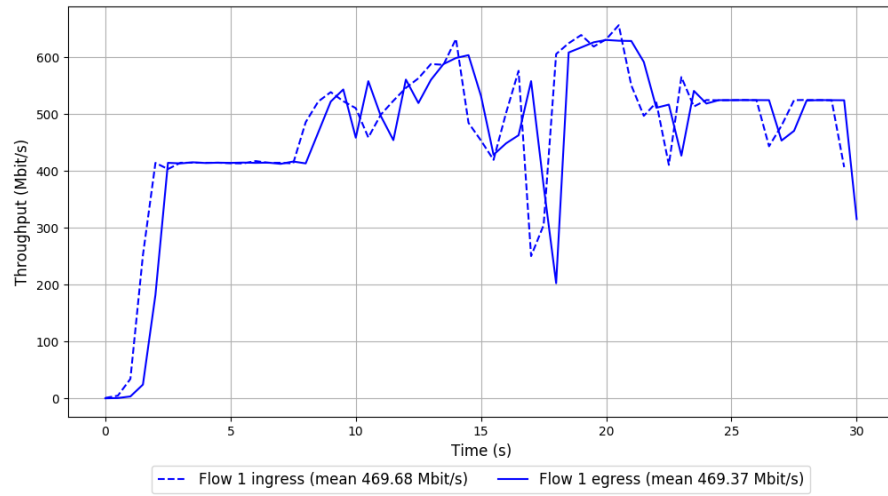
-- Flow 1:

Average throughput: 469.37 Mbit/s

95th percentile per-packet one-way delay: 114.914 ms

Loss rate: 0.65%

Run 1: Report of TCP BBR — Data Link

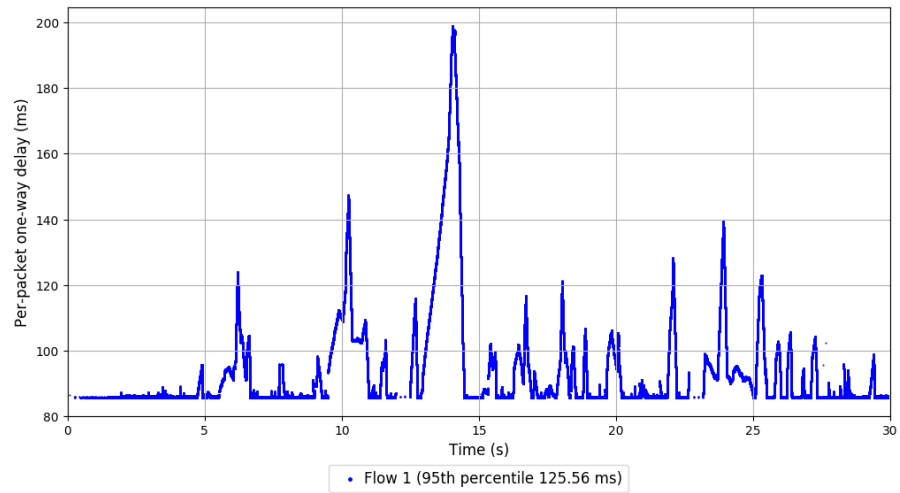
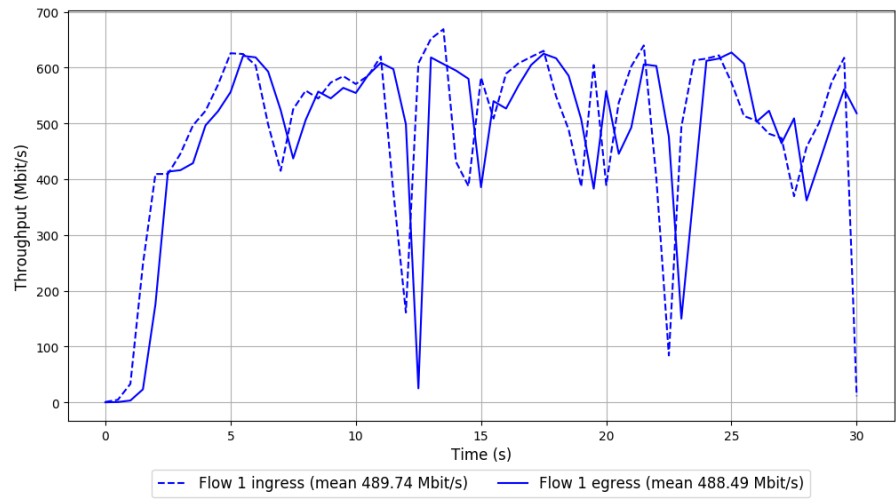


Run 2: Statistics of TCP BBR

Start at: 2019-11-23 22:50:09
End at: 2019-11-23 22:50:39
Local clock offset: 14.723 ms
Remote clock offset: 14.899 ms

Below is generated by plot.py at 2019-11-24 01:26:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 488.49 Mbit/s
95th percentile per-packet one-way delay: 125.555 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 488.49 Mbit/s
95th percentile per-packet one-way delay: 125.555 ms
Loss rate: 0.83%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-11-23 23:25:16

End at: 2019-11-23 23:25:46

Local clock offset: 15.136 ms

Remote clock offset: 15.49 ms

Below is generated by plot.py at 2019-11-24 01:26:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 467.71 Mbit/s

95th percentile per-packet one-way delay: 134.051 ms

Loss rate: 0.54%

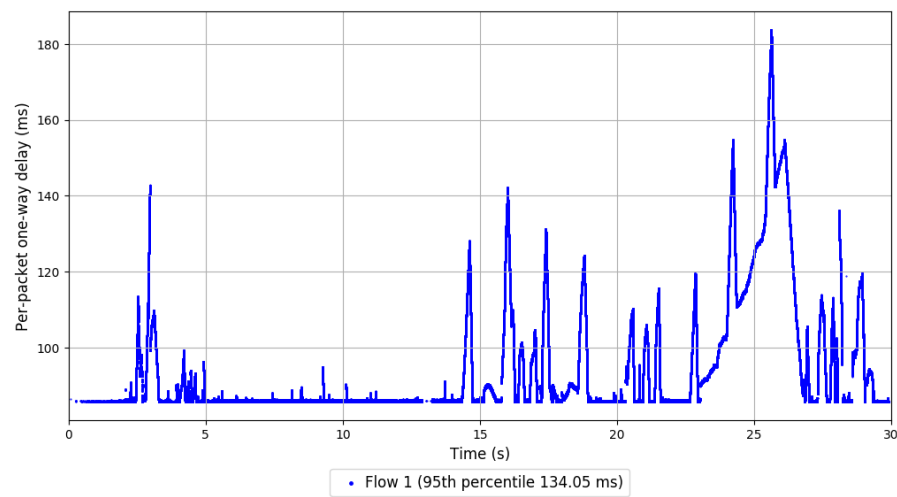
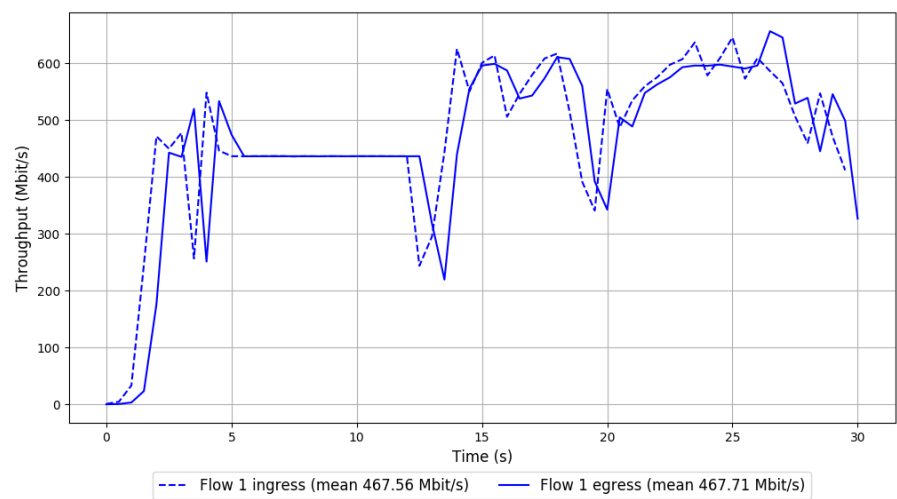
-- Flow 1:

Average throughput: 467.71 Mbit/s

95th percentile per-packet one-way delay: 134.051 ms

Loss rate: 0.54%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-11-24 00:00:09

End at: 2019-11-24 00:00:39

Local clock offset: 7.167 ms

Remote clock offset: 7.25 ms

Below is generated by plot.py at 2019-11-24 01:26:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 472.80 Mbit/s

95th percentile per-packet one-way delay: 196.050 ms

Loss rate: 0.97%

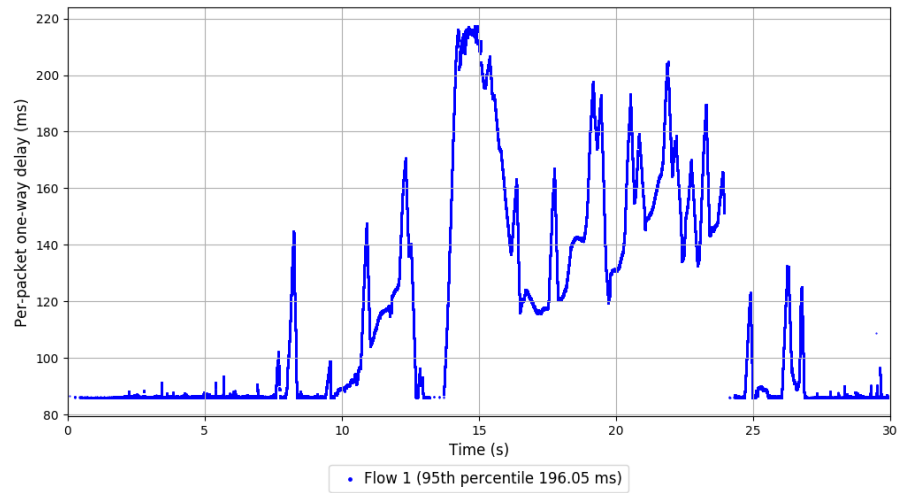
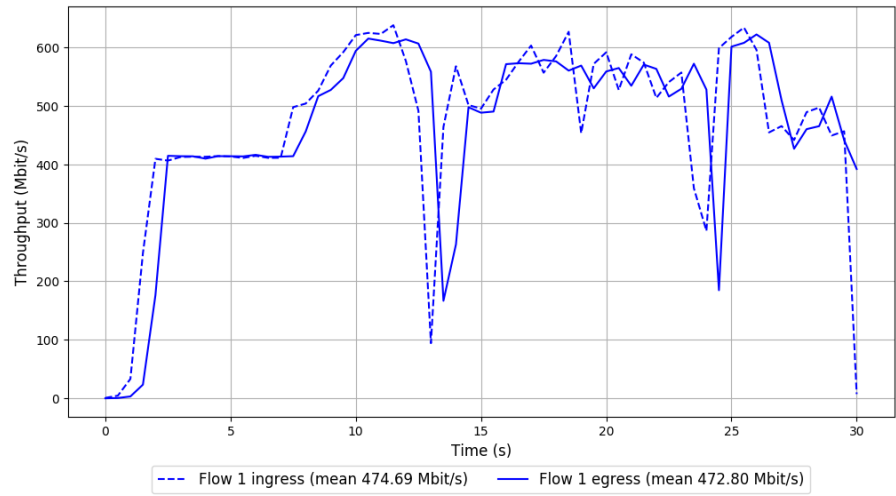
-- Flow 1:

Average throughput: 472.80 Mbit/s

95th percentile per-packet one-way delay: 196.050 ms

Loss rate: 0.97%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-11-24 00:35:11

End at: 2019-11-24 00:35:41

Local clock offset: 2.705 ms

Remote clock offset: 2.745 ms

Below is generated by plot.py at 2019-11-24 01:26:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 470.81 Mbit/s

95th percentile per-packet one-way delay: 164.438 ms

Loss rate: 0.86%

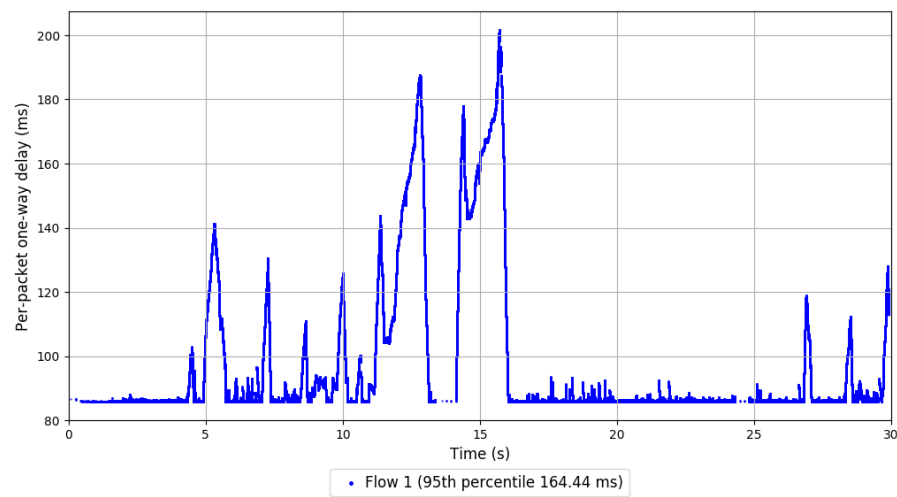
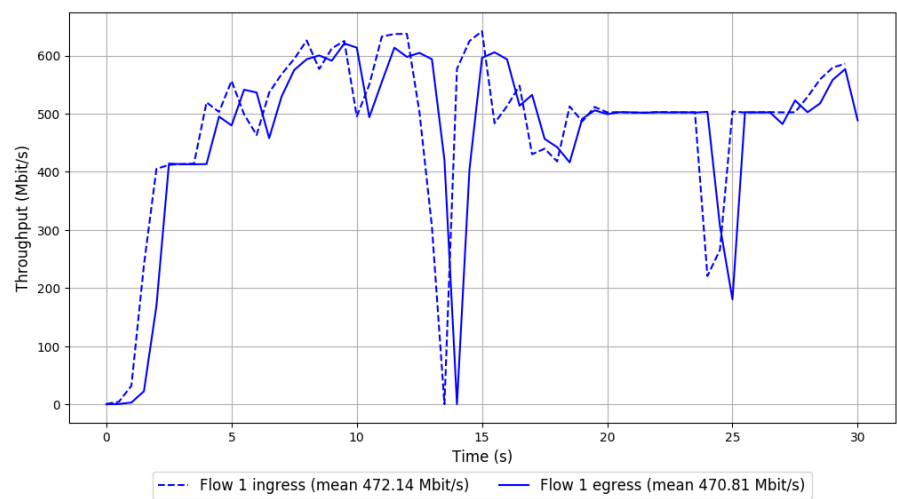
-- Flow 1:

Average throughput: 470.81 Mbit/s

95th percentile per-packet one-way delay: 164.438 ms

Loss rate: 0.86%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-11-23 22:10:59

End at: 2019-11-23 22:11:29

Local clock offset: 2.009 ms

Remote clock offset: 3.115 ms

Below is generated by plot.py at 2019-11-24 01:27:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 322.92 Mbit/s

95th percentile per-packet one-way delay: 114.032 ms

Loss rate: 0.65%

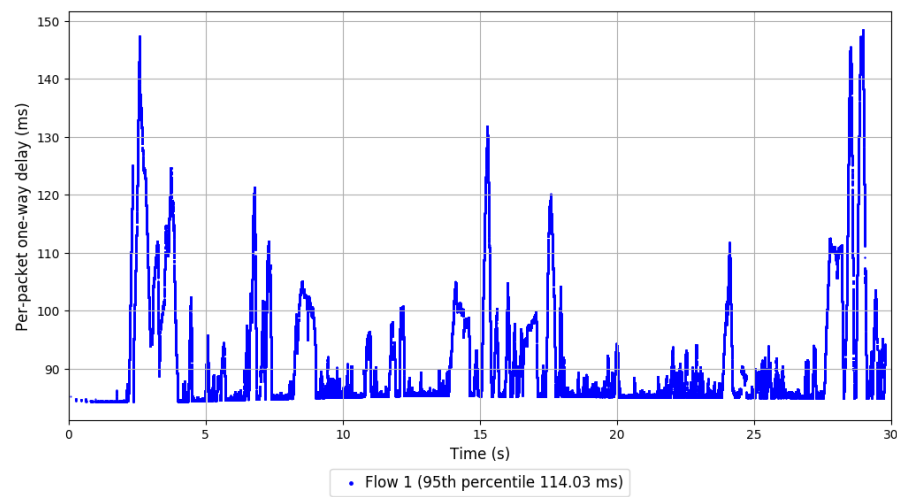
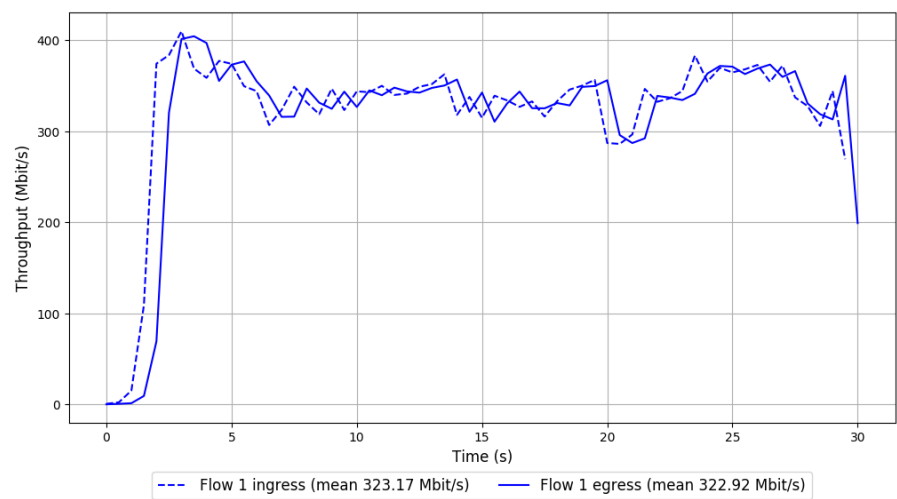
-- Flow 1:

Average throughput: 322.92 Mbit/s

95th percentile per-packet one-way delay: 114.032 ms

Loss rate: 0.65%

Run 1: Report of Copa — Data Link

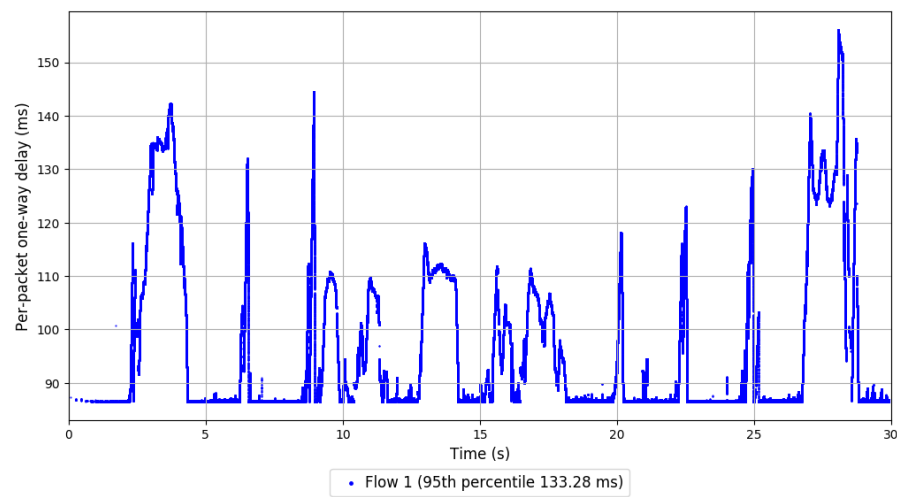
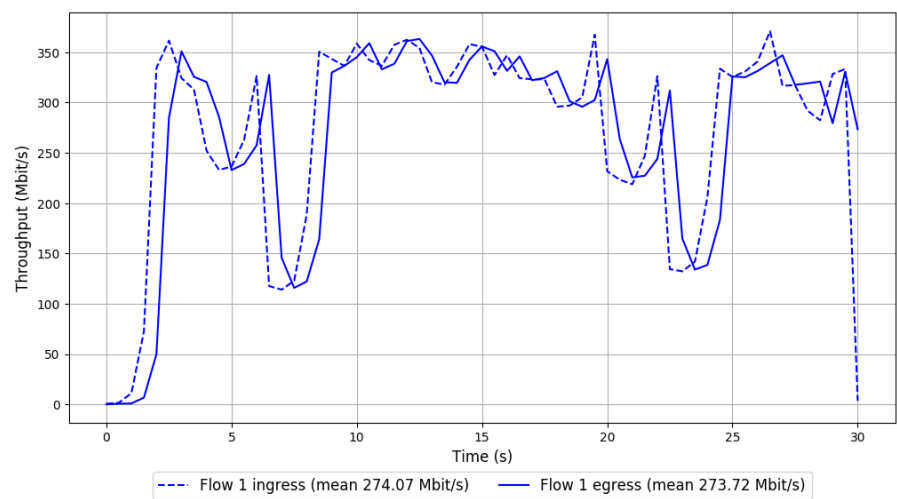


Run 2: Statistics of Copa

Start at: 2019-11-23 22:46:02
End at: 2019-11-23 22:46:32
Local clock offset: 17.307 ms
Remote clock offset: 16.859 ms

Below is generated by plot.py at 2019-11-24 01:27:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 273.72 Mbit/s
95th percentile per-packet one-way delay: 133.280 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 273.72 Mbit/s
95th percentile per-packet one-way delay: 133.280 ms
Loss rate: 0.70%

Run 2: Report of Copa — Data Link

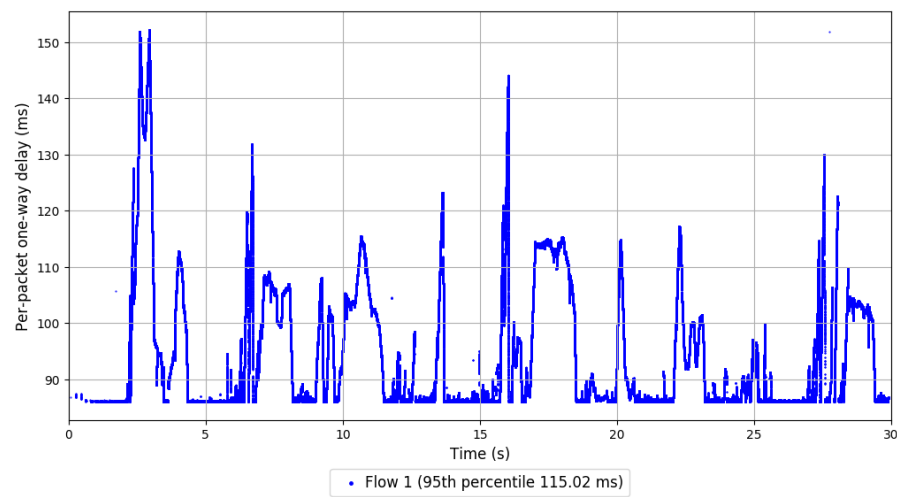
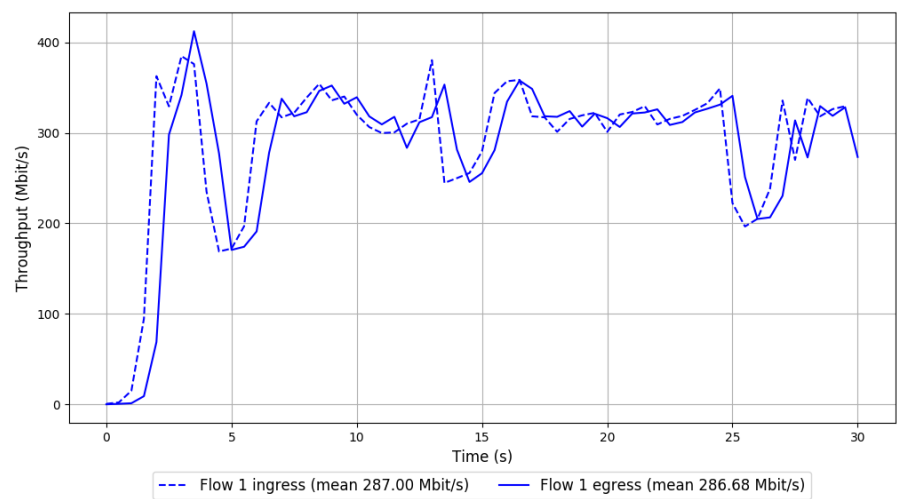


Run 3: Statistics of Copa

Start at: 2019-11-23 23:21:17
End at: 2019-11-23 23:21:47
Local clock offset: 20.573 ms
Remote clock offset: 20.82 ms

Below is generated by plot.py at 2019-11-24 01:27:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 286.68 Mbit/s
95th percentile per-packet one-way delay: 115.015 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 286.68 Mbit/s
95th percentile per-packet one-way delay: 115.015 ms
Loss rate: 0.69%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-11-23 23:56:12

End at: 2019-11-23 23:56:42

Local clock offset: 9.61 ms

Remote clock offset: 9.772 ms

Below is generated by plot.py at 2019-11-24 01:34:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 267.29 Mbit/s

95th percentile per-packet one-way delay: 106.174 ms

Loss rate: 0.59%

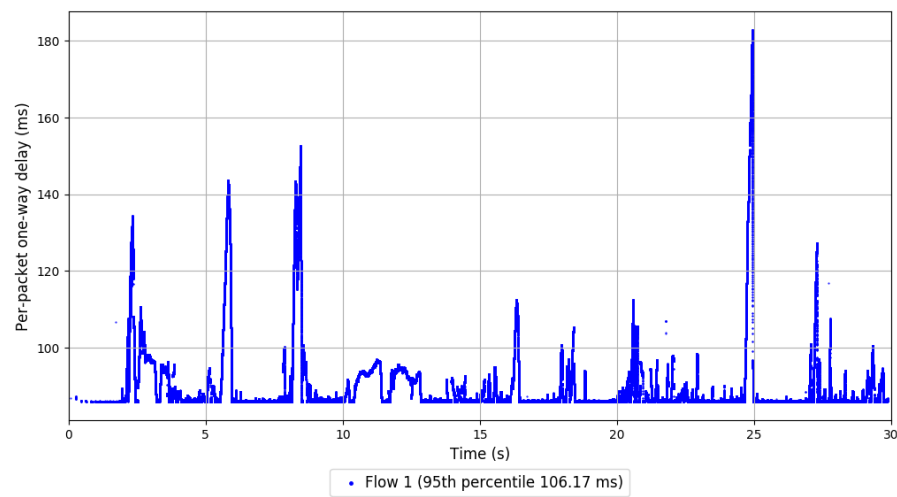
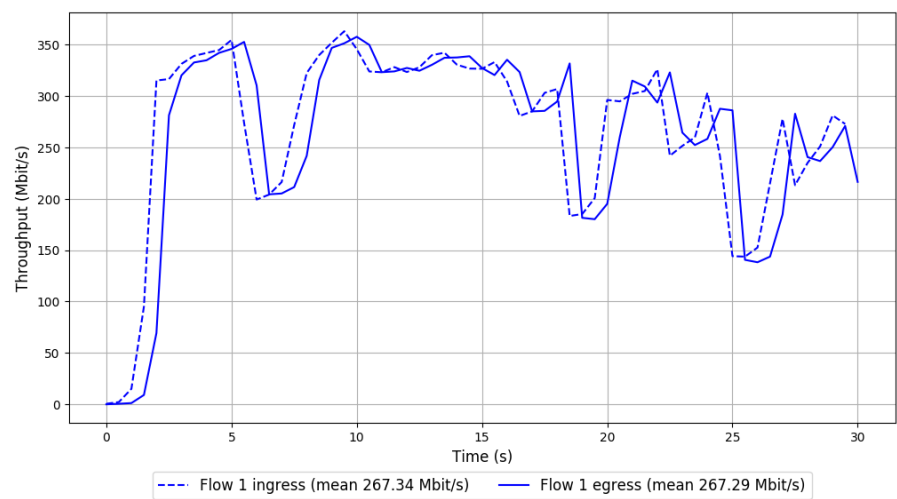
-- Flow 1:

Average throughput: 267.29 Mbit/s

95th percentile per-packet one-way delay: 106.174 ms

Loss rate: 0.59%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-11-24 00:31:08

End at: 2019-11-24 00:31:39

Local clock offset: 4.021 ms

Remote clock offset: 4.036 ms

Below is generated by plot.py at 2019-11-24 01:34:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 276.09 Mbit/s

95th percentile per-packet one-way delay: 124.323 ms

Loss rate: 0.60%

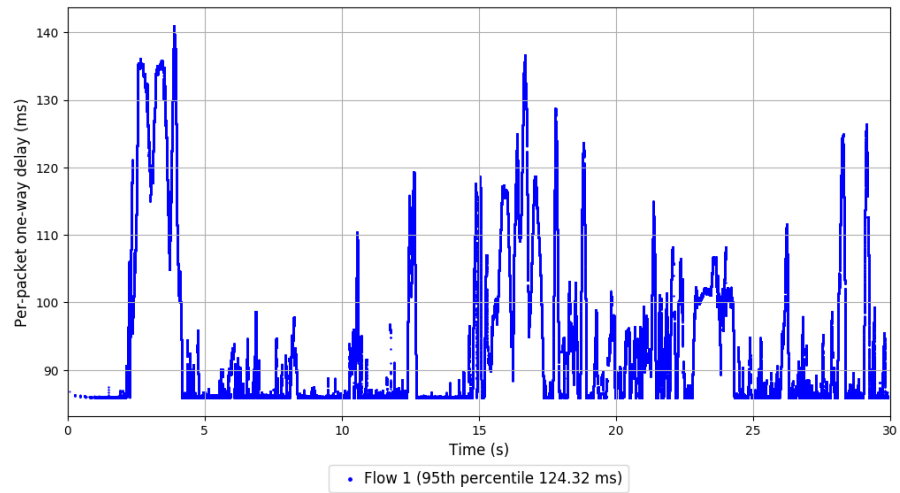
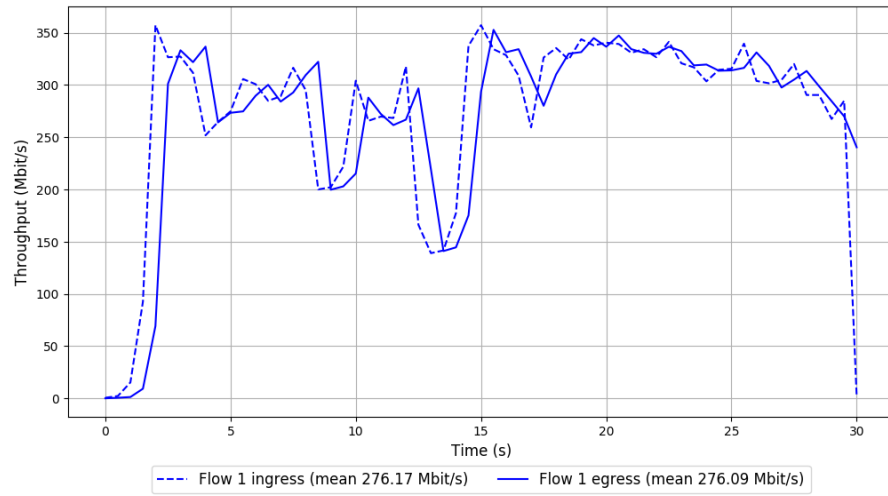
-- Flow 1:

Average throughput: 276.09 Mbit/s

95th percentile per-packet one-way delay: 124.323 ms

Loss rate: 0.60%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-11-23 22:29:43

End at: 2019-11-23 22:30:13

Local clock offset: 9.863 ms

Remote clock offset: 9.852 ms

Below is generated by plot.py at 2019-11-24 01:34:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 530.59 Mbit/s

95th percentile per-packet one-way delay: 130.672 ms

Loss rate: 0.72%

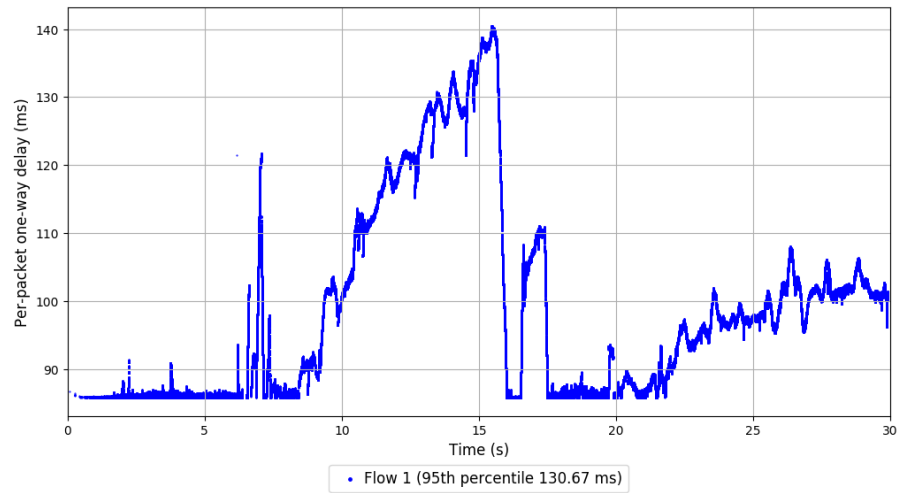
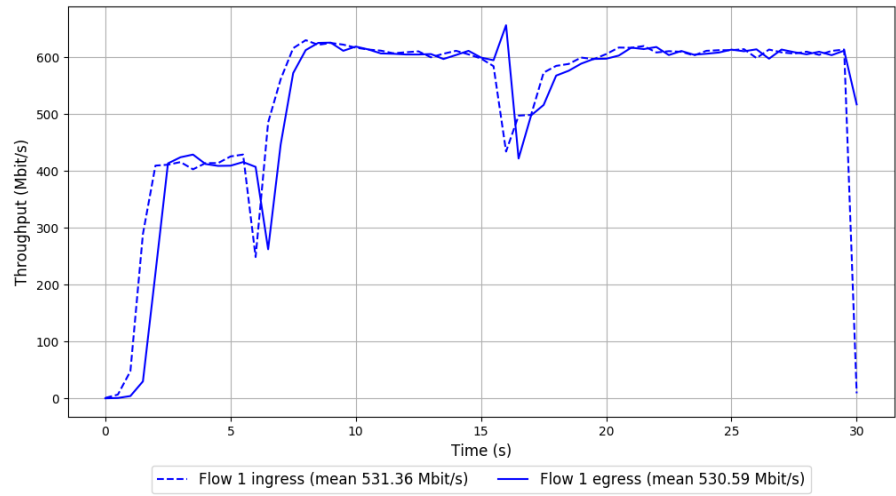
-- Flow 1:

Average throughput: 530.59 Mbit/s

95th percentile per-packet one-way delay: 130.672 ms

Loss rate: 0.72%

Run 1: Report of TCP Cubic — Data Link

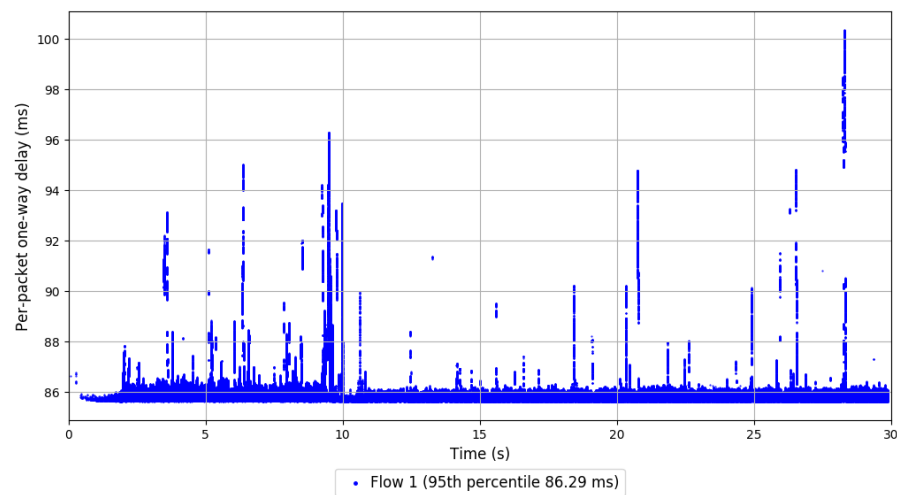
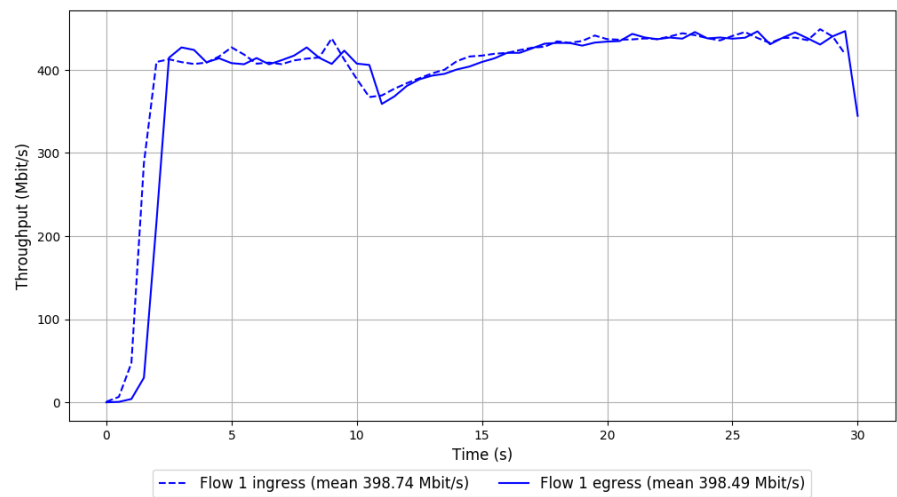


Run 2: Statistics of TCP Cubic

Start at: 2019-11-23 23:05:25
End at: 2019-11-23 23:05:55
Local clock offset: 20.273 ms
Remote clock offset: 20.545 ms

Below is generated by plot.py at 2019-11-24 01:34:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 398.49 Mbit/s
95th percentile per-packet one-way delay: 86.287 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 398.49 Mbit/s
95th percentile per-packet one-way delay: 86.287 ms
Loss rate: 0.64%

Run 2: Report of TCP Cubic — Data Link

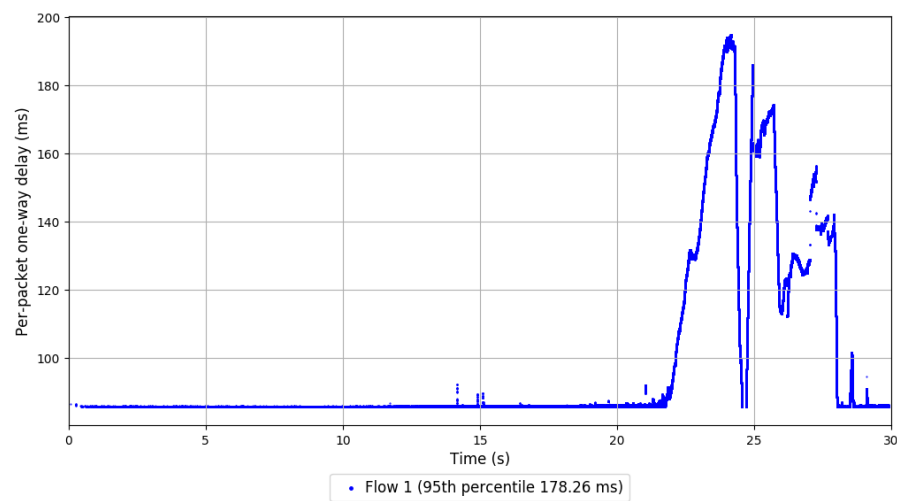
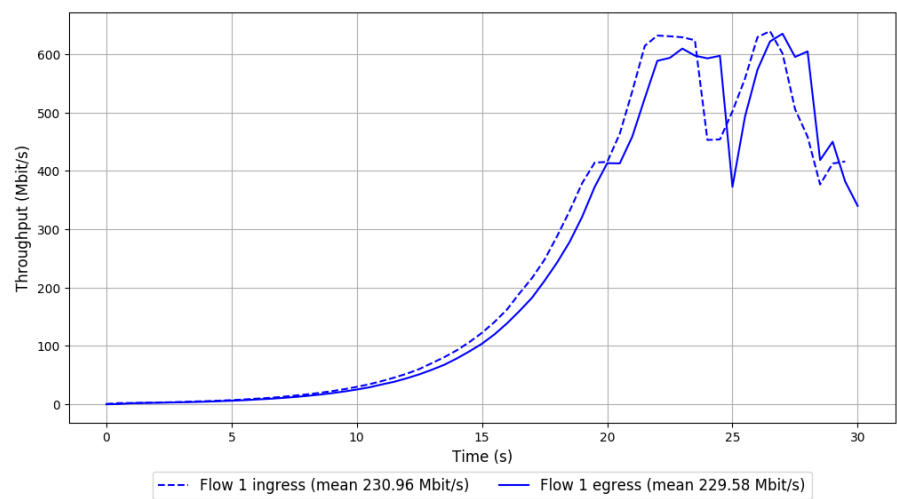


Run 3: Statistics of TCP Cubic

Start at: 2019-11-23 23:39:55
End at: 2019-11-23 23:40:25
Local clock offset: 11.457 ms
Remote clock offset: 11.681 ms

Below is generated by plot.py at 2019-11-24 01:34:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 229.58 Mbit/s
95th percentile per-packet one-way delay: 178.260 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 229.58 Mbit/s
95th percentile per-packet one-way delay: 178.260 ms
Loss rate: 1.17%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-11-24 00:15:17

End at: 2019-11-24 00:15:47

Local clock offset: 5.555 ms

Remote clock offset: 5.801 ms

Below is generated by plot.py at 2019-11-24 01:35:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 511.49 Mbit/s

95th percentile per-packet one-way delay: 111.466 ms

Loss rate: 0.62%

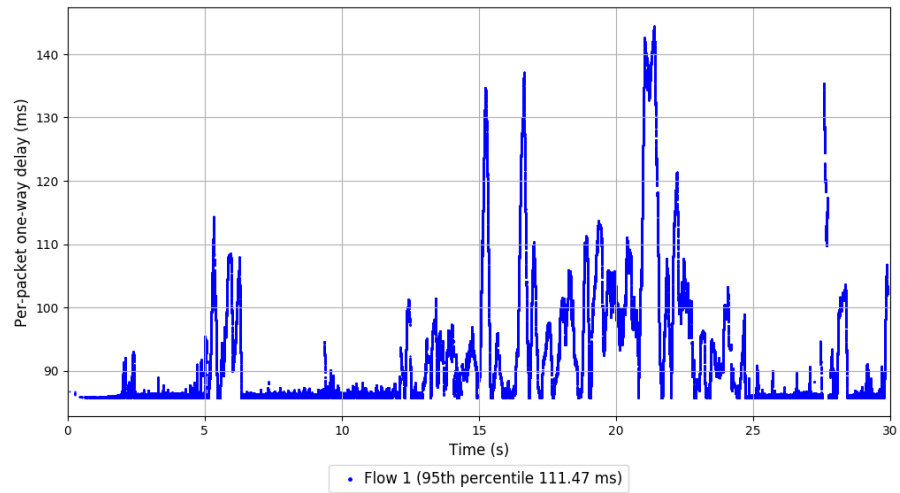
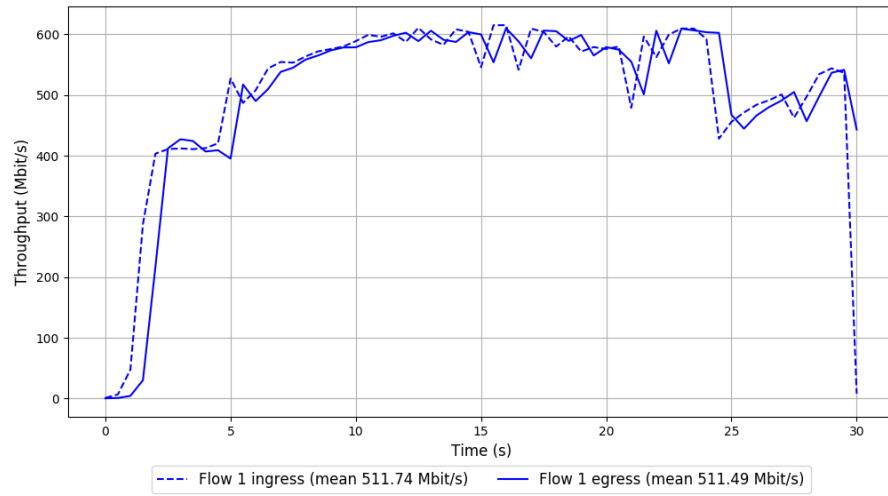
-- Flow 1:

Average throughput: 511.49 Mbit/s

95th percentile per-packet one-way delay: 111.466 ms

Loss rate: 0.62%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-11-24 00:50:25

End at: 2019-11-24 00:50:55

Local clock offset: 1.469 ms

Remote clock offset: 1.337 ms

Below is generated by plot.py at 2019-11-24 01:35:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 456.41 Mbit/s

95th percentile per-packet one-way delay: 106.982 ms

Loss rate: 0.60%

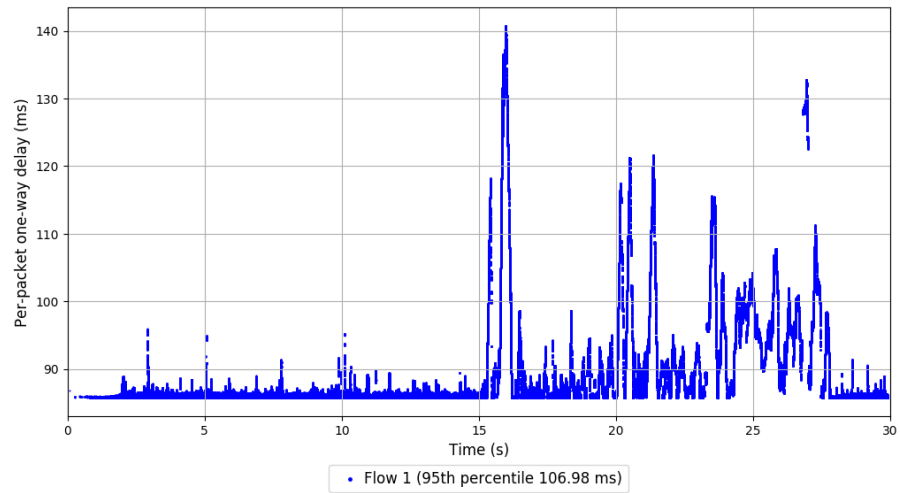
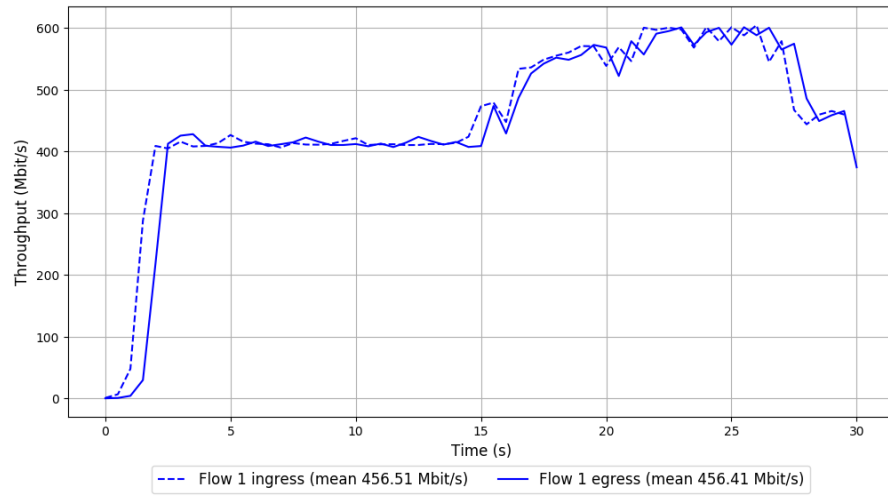
-- Flow 1:

Average throughput: 456.41 Mbit/s

95th percentile per-packet one-way delay: 106.982 ms

Loss rate: 0.60%

Run 5: Report of TCP Cubic — Data Link

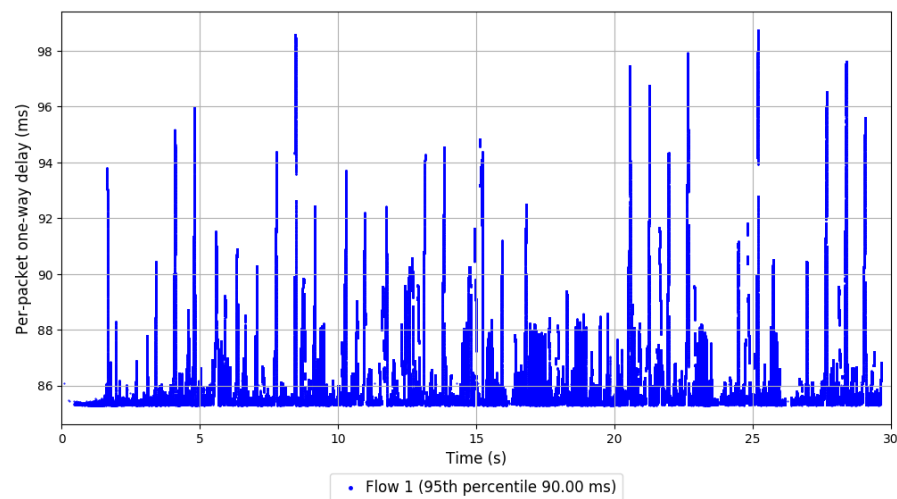
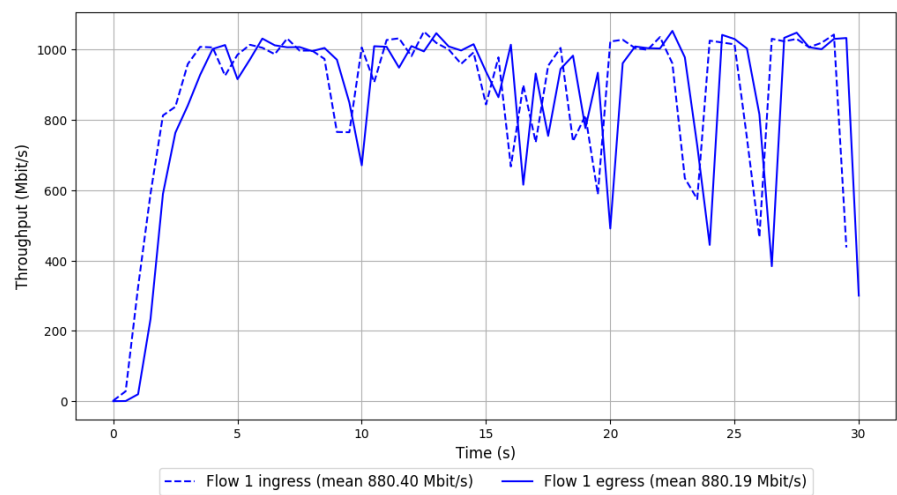


Run 1: Statistics of FillP

Start at: 2019-11-23 22:41:41
End at: 2019-11-23 22:42:11
Local clock offset: 17.582 ms
Remote clock offset: 18.135 ms

Below is generated by plot.py at 2019-11-24 01:45:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 880.19 Mbit/s
95th percentile per-packet one-way delay: 89.999 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 880.19 Mbit/s
95th percentile per-packet one-way delay: 89.999 ms
Loss rate: 0.61%

Run 1: Report of FillP — Data Link

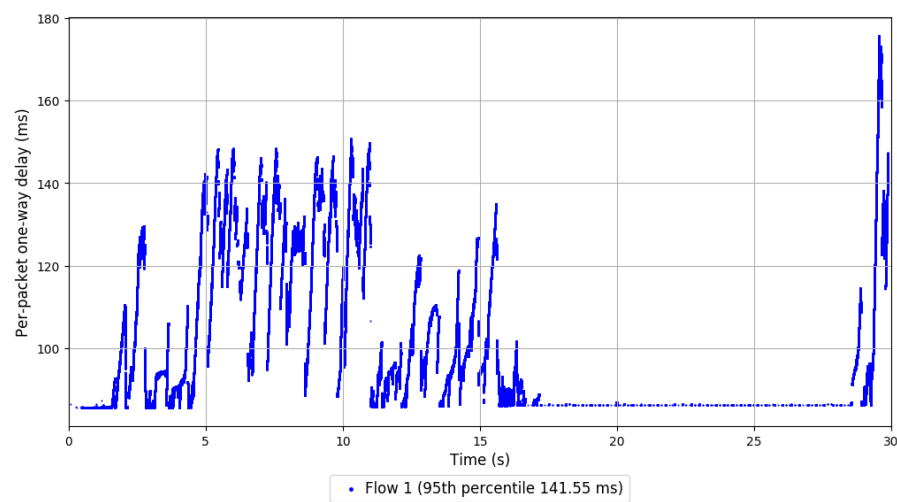
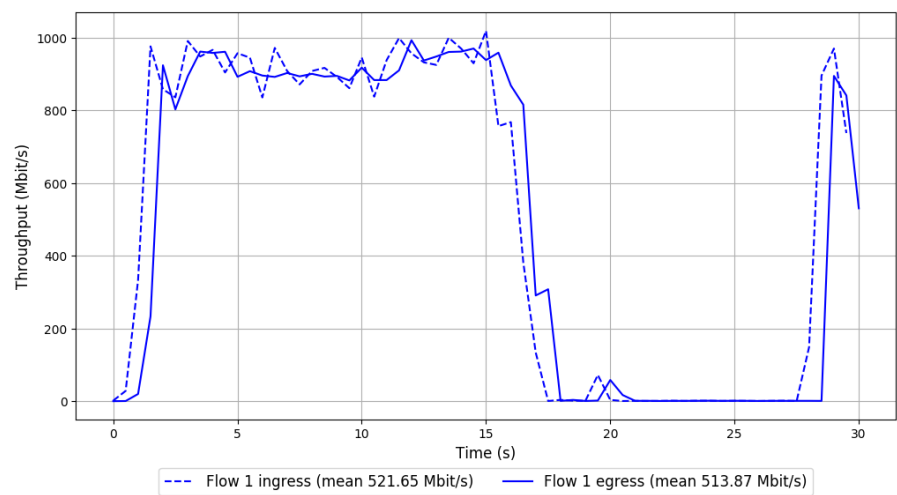


Run 2: Statistics of FillP

Start at: 2019-11-23 23:17:05
End at: 2019-11-23 23:17:35
Local clock offset: 29.092 ms
Remote clock offset: 29.462 ms

Below is generated by plot.py at 2019-11-24 01:45:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 513.87 Mbit/s
95th percentile per-packet one-way delay: 141.549 ms
Loss rate: 2.02%
-- Flow 1:
Average throughput: 513.87 Mbit/s
95th percentile per-packet one-way delay: 141.549 ms
Loss rate: 2.02%

Run 2: Report of FillP — Data Link

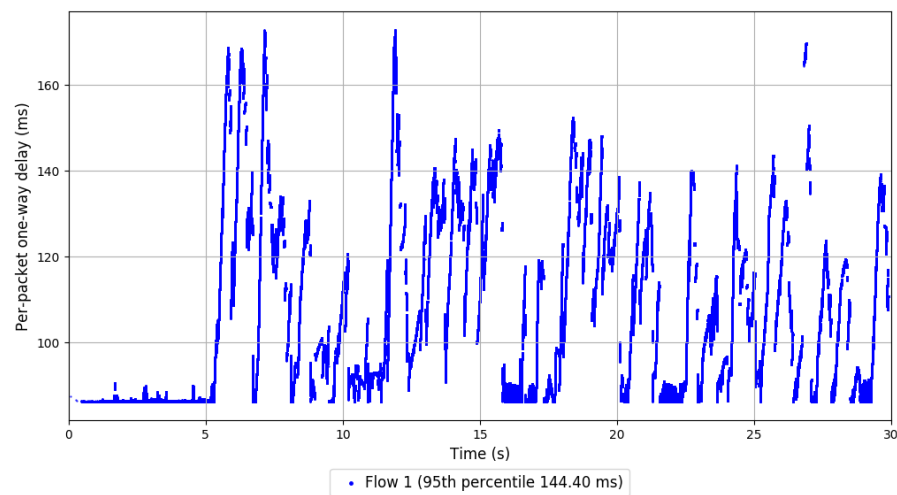
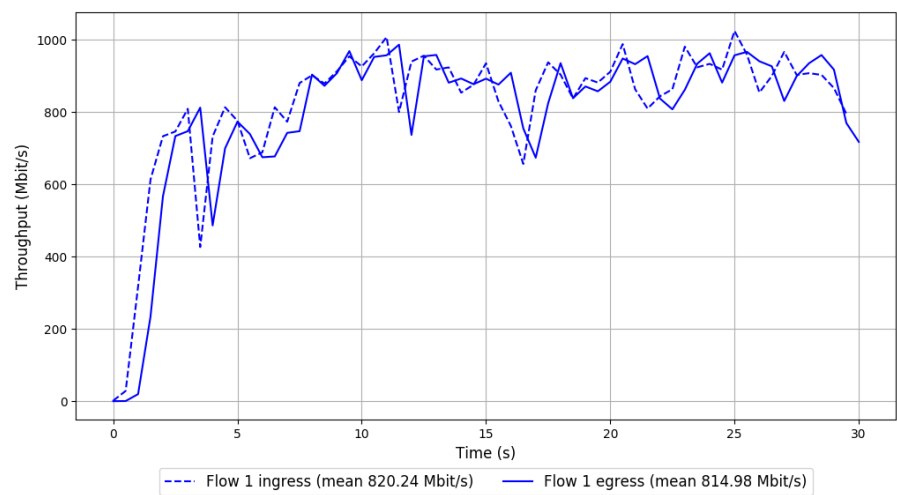


Run 3: Statistics of FillP

Start at: 2019-11-23 23:51:46
End at: 2019-11-23 23:52:16
Local clock offset: 14.758 ms
Remote clock offset: 14.885 ms

Below is generated by plot.py at 2019-11-24 01:49:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 814.98 Mbit/s
95th percentile per-packet one-way delay: 144.404 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 814.98 Mbit/s
95th percentile per-packet one-way delay: 144.404 ms
Loss rate: 1.22%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-11-24 00:26:43

End at: 2019-11-24 00:27:13

Local clock offset: 6.407 ms

Remote clock offset: 6.536 ms

Below is generated by plot.py at 2019-11-24 01:51:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 822.22 Mbit/s

95th percentile per-packet one-way delay: 150.667 ms

Loss rate: 3.35%

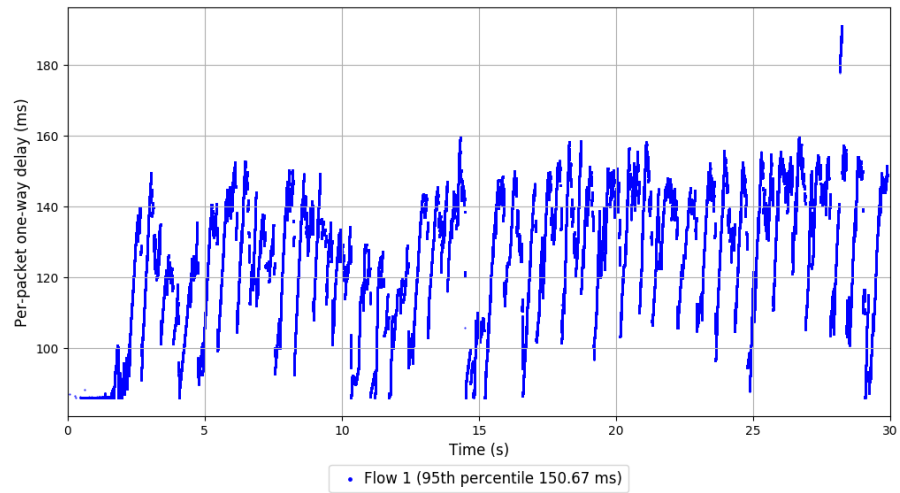
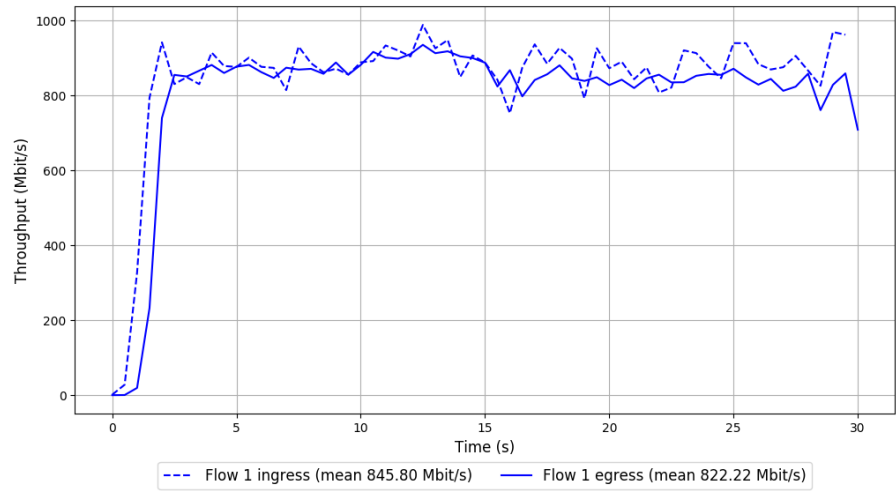
-- Flow 1:

Average throughput: 822.22 Mbit/s

95th percentile per-packet one-way delay: 150.667 ms

Loss rate: 3.35%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-11-24 01:02:19

End at: 2019-11-24 01:02:49

Local clock offset: 1.316 ms

Remote clock offset: 1.17 ms

Below is generated by plot.py at 2019-11-24 01:51:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 822.35 Mbit/s

95th percentile per-packet one-way delay: 142.454 ms

Loss rate: 1.55%

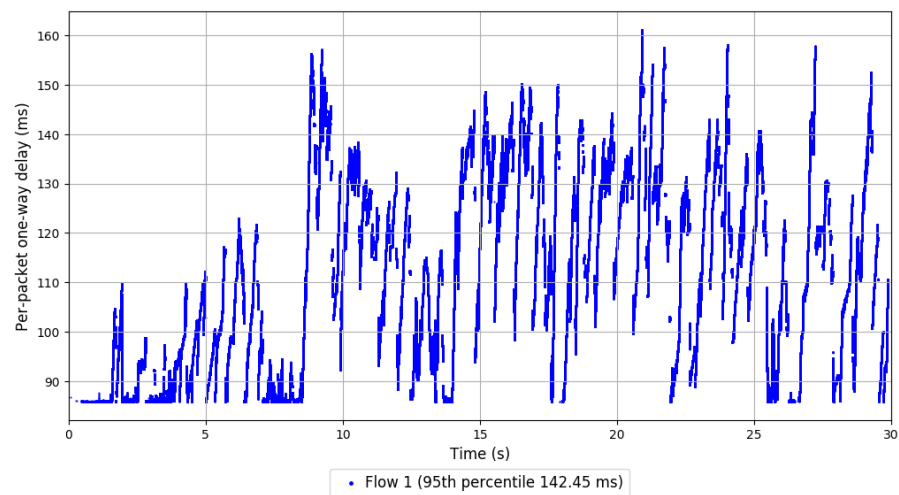
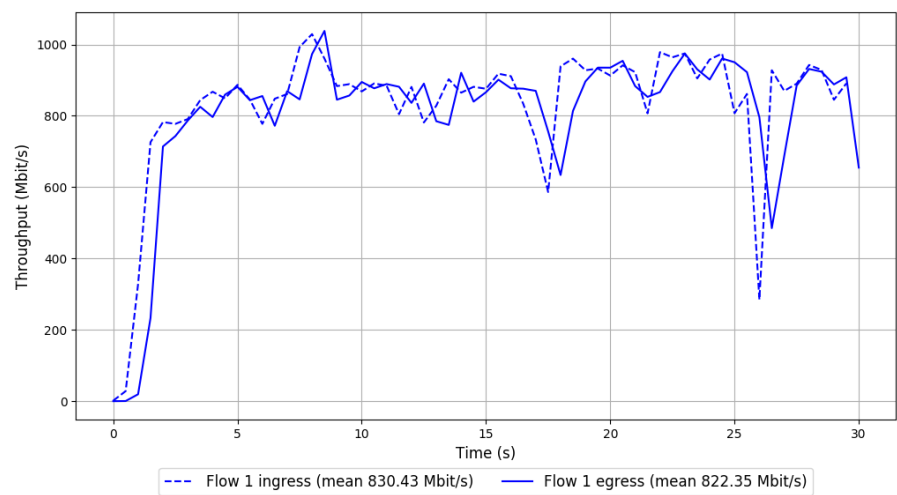
-- Flow 1:

Average throughput: 822.35 Mbit/s

95th percentile per-packet one-way delay: 142.454 ms

Loss rate: 1.55%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-11-23 22:20:29

End at: 2019-11-23 22:20:59

Local clock offset: 6.567 ms

Remote clock offset: 6.592 ms

Below is generated by plot.py at 2019-11-24 01:51:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 797.89 Mbit/s

95th percentile per-packet one-way delay: 105.302 ms

Loss rate: 0.68%

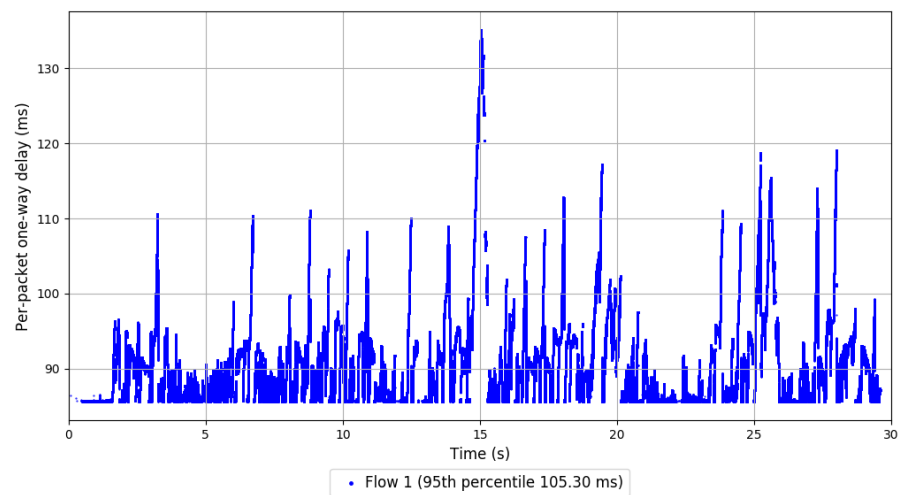
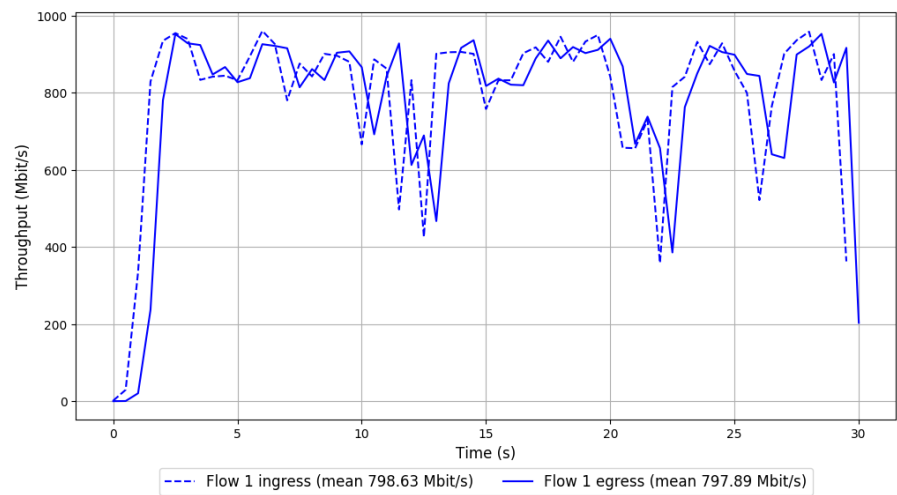
-- Flow 1:

Average throughput: 797.89 Mbit/s

95th percentile per-packet one-way delay: 105.302 ms

Loss rate: 0.68%

Run 1: Report of FillP-Sheep — Data Link

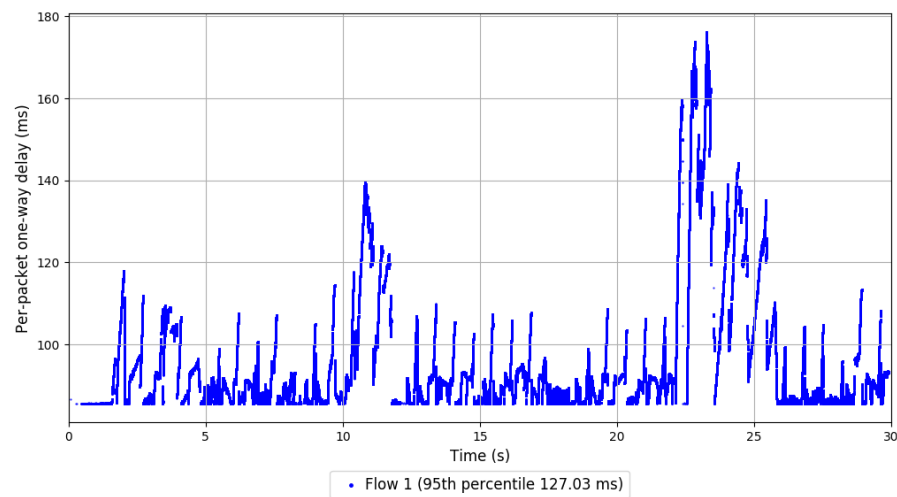
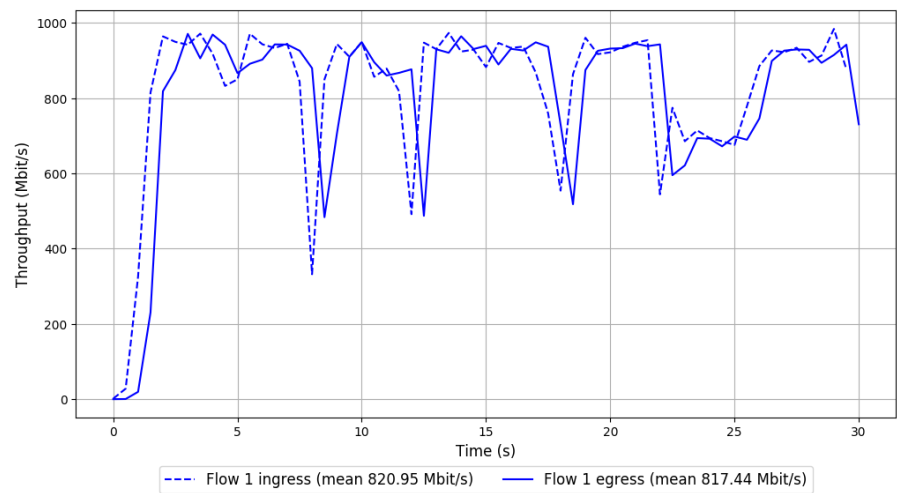


Run 2: Statistics of FillP-Sheep

Start at: 2019-11-23 22:56:07
End at: 2019-11-23 22:56:38
Local clock offset: 15.247 ms
Remote clock offset: 15.501 ms

Below is generated by plot.py at 2019-11-24 01:51:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 817.44 Mbit/s
95th percentile per-packet one-way delay: 127.026 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 817.44 Mbit/s
95th percentile per-packet one-way delay: 127.026 ms
Loss rate: 1.01%

Run 2: Report of FillP-Sheep — Data Link

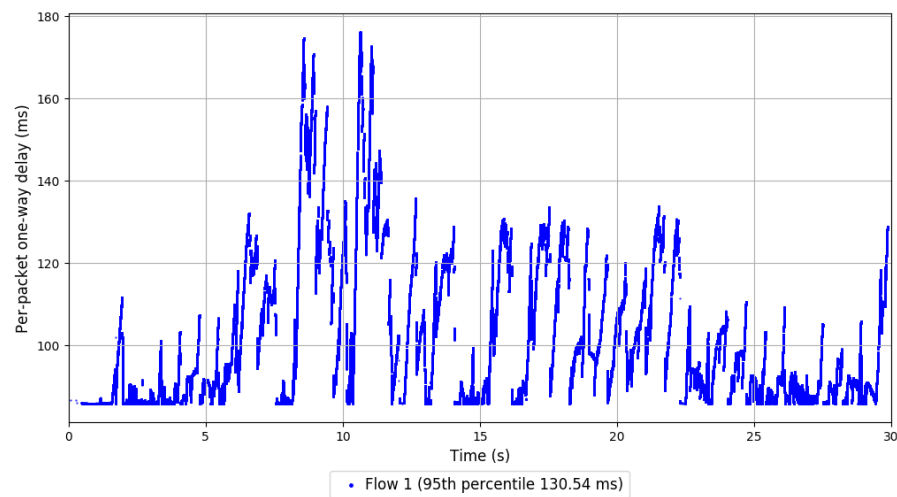
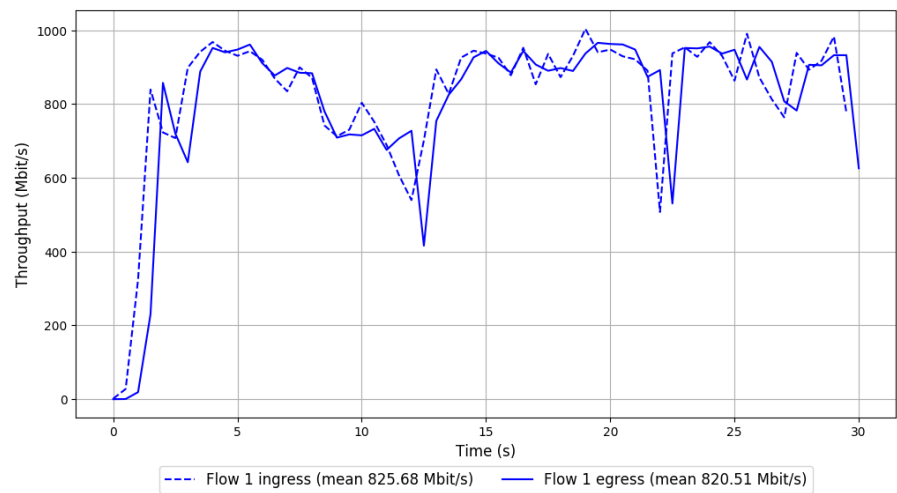


Run 3: Statistics of FillP-Sheep

Start at: 2019-11-23 23:31:08
End at: 2019-11-23 23:31:38
Local clock offset: 11.628 ms
Remote clock offset: 11.84 ms

Below is generated by plot.py at 2019-11-24 01:51:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 820.51 Mbit/s
95th percentile per-packet one-way delay: 130.537 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 820.51 Mbit/s
95th percentile per-packet one-way delay: 130.537 ms
Loss rate: 1.20%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-11-24 00:05:59

End at: 2019-11-24 00:06:29

Local clock offset: 5.537 ms

Remote clock offset: 5.718 ms

Below is generated by plot.py at 2019-11-24 01:58:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 830.09 Mbit/s

95th percentile per-packet one-way delay: 131.953 ms

Loss rate: 0.93%

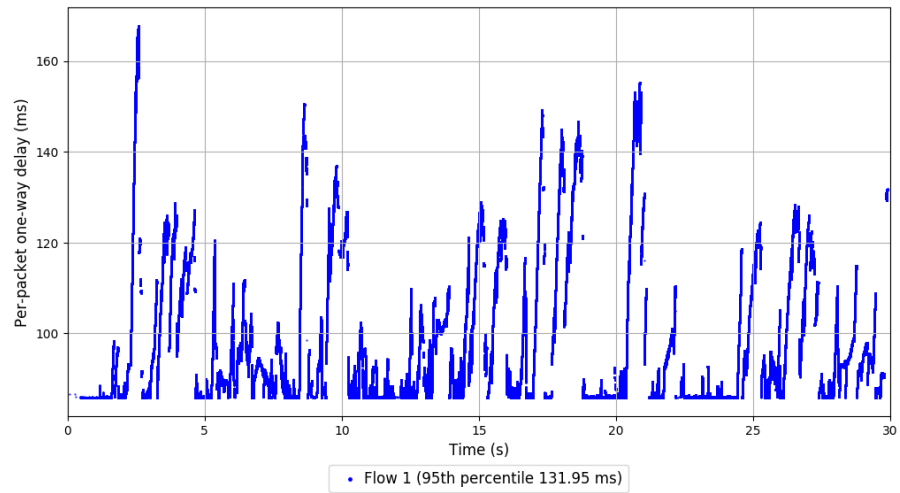
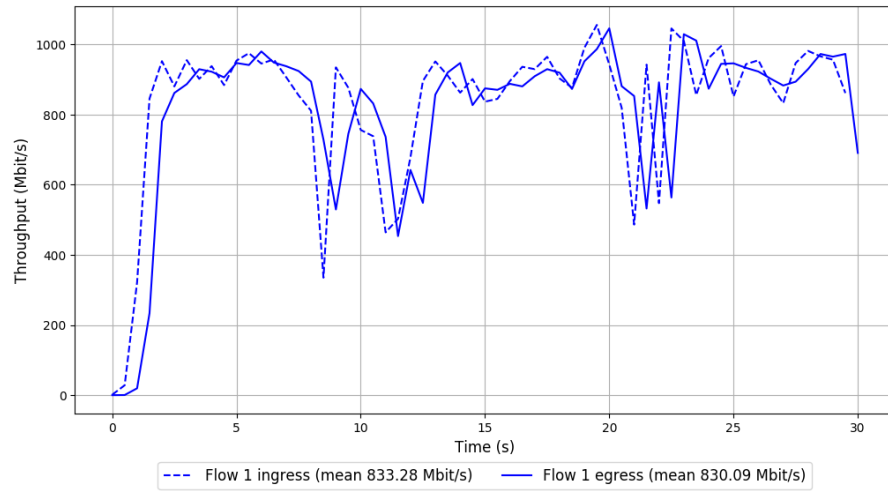
-- Flow 1:

Average throughput: 830.09 Mbit/s

95th percentile per-packet one-way delay: 131.953 ms

Loss rate: 0.93%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-11-24 00:41:07

End at: 2019-11-24 00:41:37

Local clock offset: 1.803 ms

Remote clock offset: 1.766 ms

Below is generated by plot.py at 2019-11-24 02:02:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 817.62 Mbit/s

95th percentile per-packet one-way delay: 138.783 ms

Loss rate: 1.01%

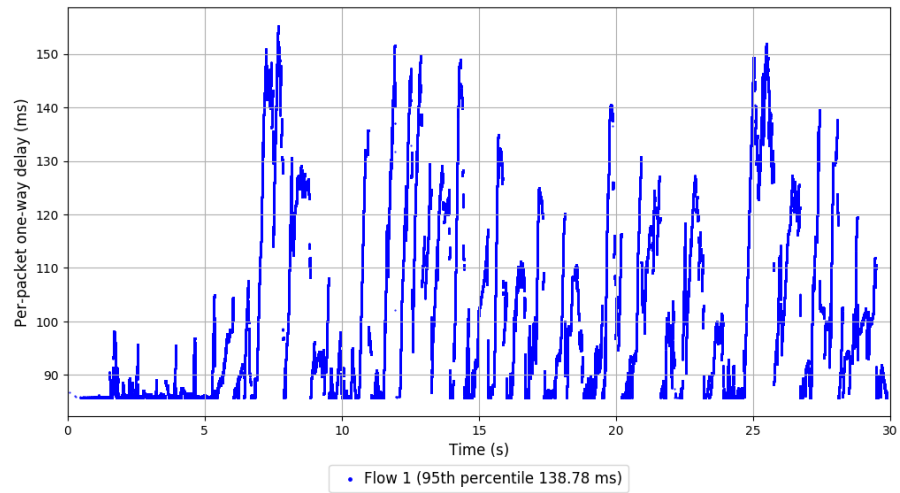
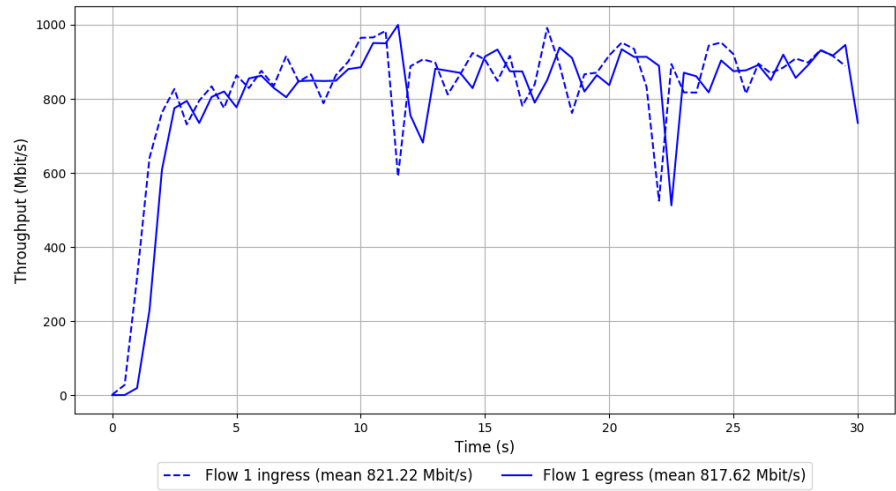
-- Flow 1:

Average throughput: 817.62 Mbit/s

95th percentile per-packet one-way delay: 138.783 ms

Loss rate: 1.01%

Run 5: Report of FillP-Sheep — Data Link

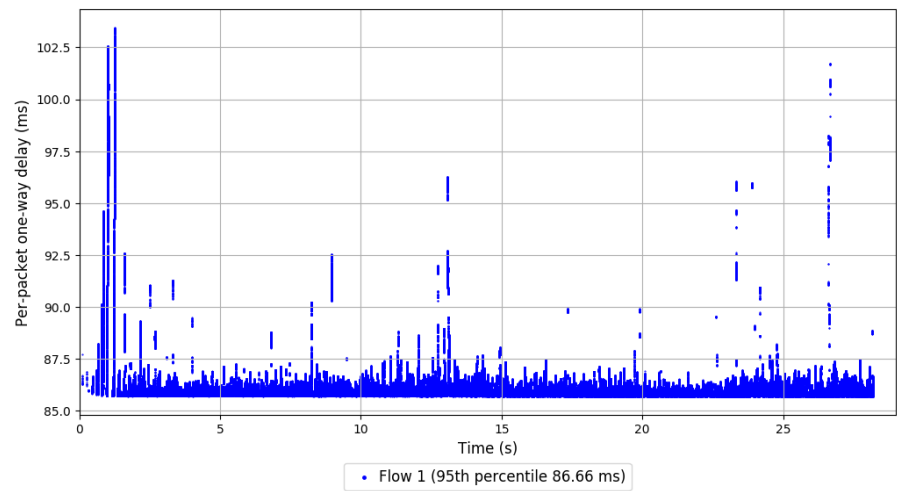
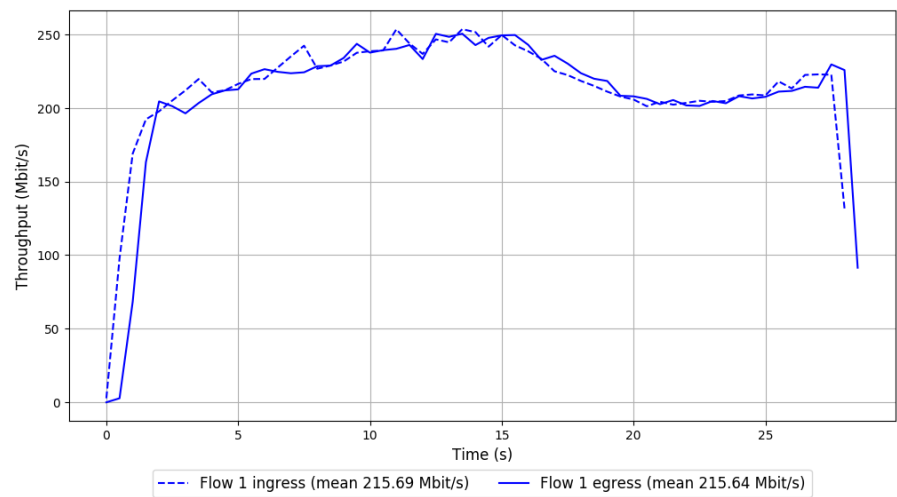


Run 1: Statistics of Indigo

Start at: 2019-11-23 22:44:34
End at: 2019-11-23 22:45:04
Local clock offset: 18.178 ms
Remote clock offset: 18.574 ms

Below is generated by plot.py at 2019-11-24 02:02:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 215.64 Mbit/s
95th percentile per-packet one-way delay: 86.663 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 215.64 Mbit/s
95th percentile per-packet one-way delay: 86.663 ms
Loss rate: 0.64%

Run 1: Report of Indigo — Data Link

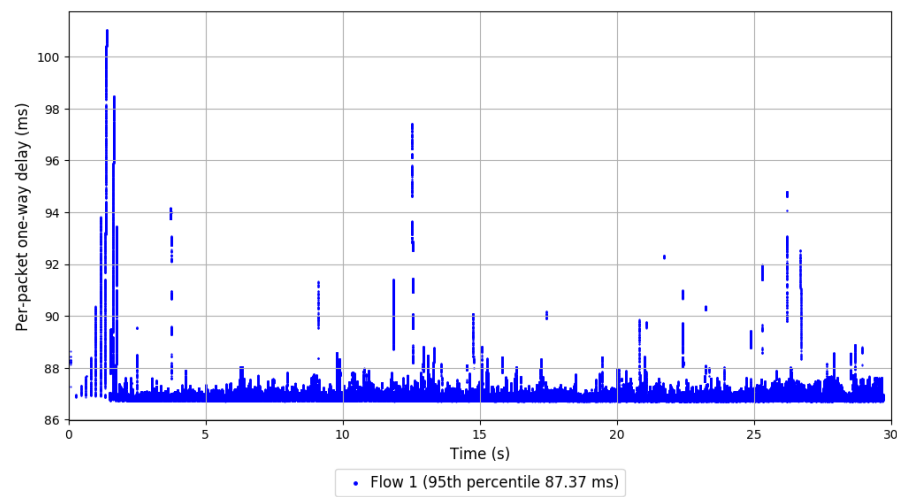
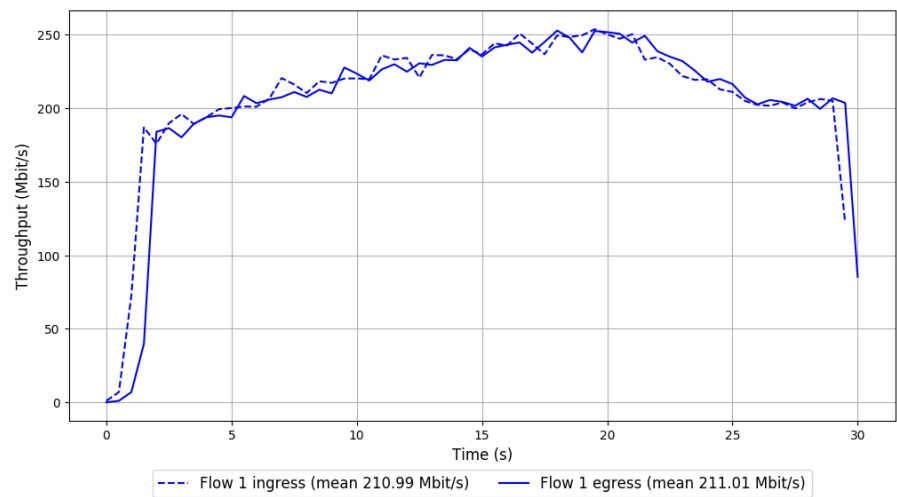


Run 2: Statistics of Indigo

Start at: 2019-11-23 23:19:48
End at: 2019-11-23 23:20:18
Local clock offset: 23.953 ms
Remote clock offset: 23.581 ms

Below is generated by plot.py at 2019-11-24 02:02:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 211.01 Mbit/s
95th percentile per-packet one-way delay: 87.367 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 211.01 Mbit/s
95th percentile per-packet one-way delay: 87.367 ms
Loss rate: 0.57%

Run 2: Report of Indigo — Data Link

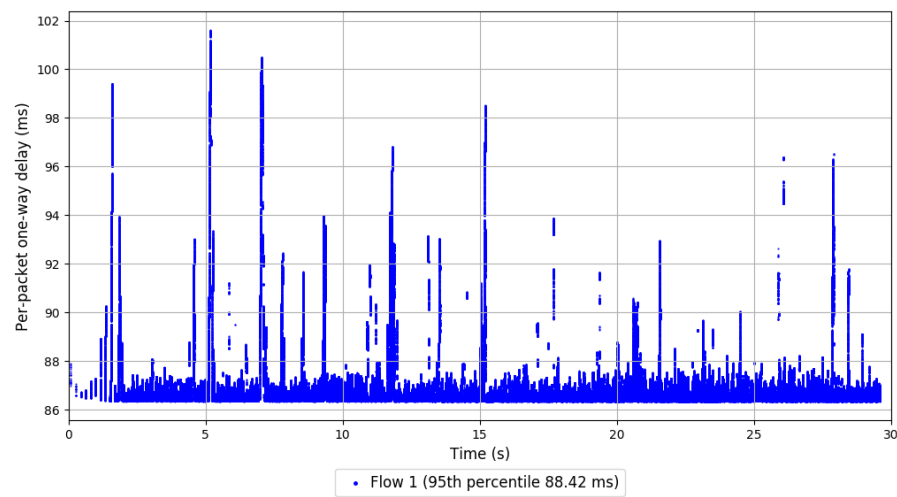
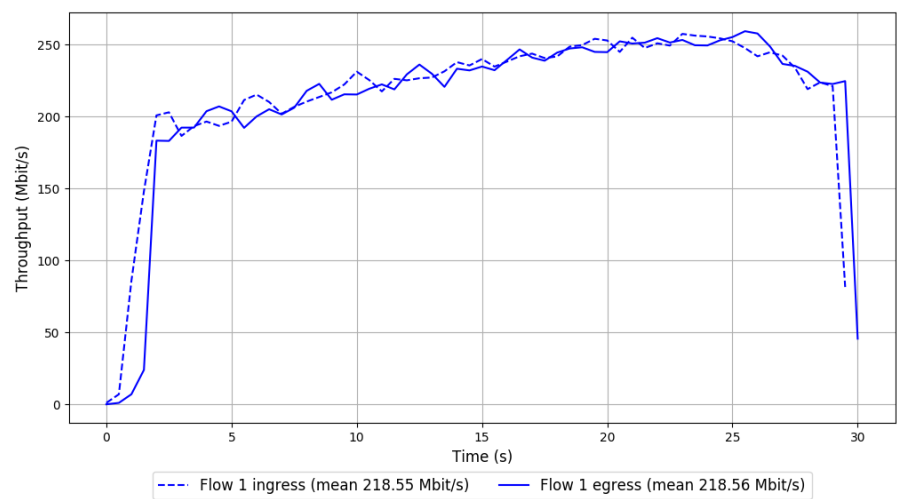


Run 3: Statistics of Indigo

Start at: 2019-11-23 23:54:42
End at: 2019-11-23 23:55:12
Local clock offset: 11.281 ms
Remote clock offset: 11.087 ms

Below is generated by plot.py at 2019-11-24 02:02:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 218.56 Mbit/s
95th percentile per-packet one-way delay: 88.425 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 218.56 Mbit/s
95th percentile per-packet one-way delay: 88.425 ms
Loss rate: 0.58%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-11-24 00:29:39

End at: 2019-11-24 00:30:09

Local clock offset: 4.659 ms

Remote clock offset: 4.774 ms

Below is generated by plot.py at 2019-11-24 02:02:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.36 Mbit/s

95th percentile per-packet one-way delay: 88.891 ms

Loss rate: 0.68%

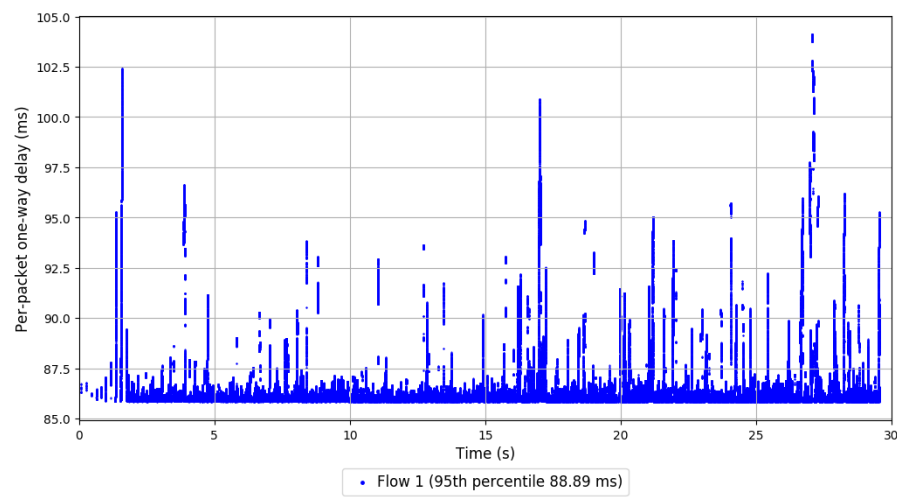
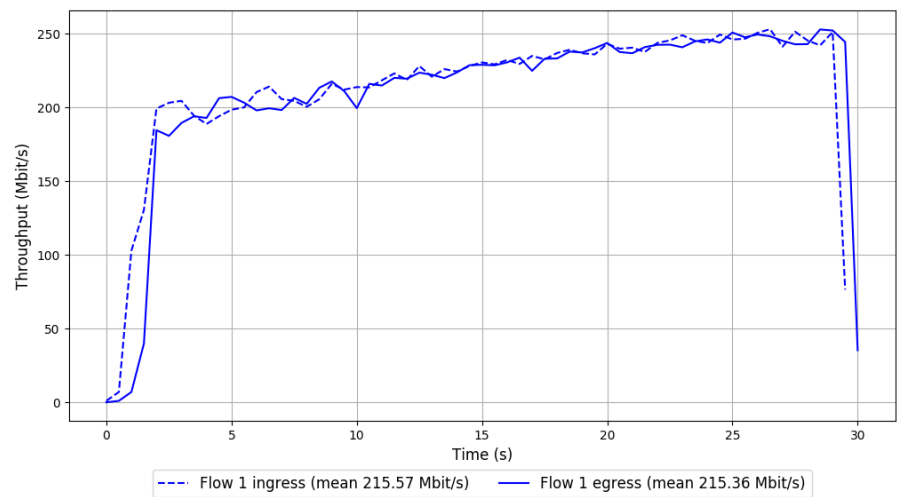
-- Flow 1:

Average throughput: 215.36 Mbit/s

95th percentile per-packet one-way delay: 88.891 ms

Loss rate: 0.68%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-11-24 01:05:17

End at: 2019-11-24 01:05:47

Local clock offset: 1.395 ms

Remote clock offset: 0.872 ms

Below is generated by plot.py at 2019-11-24 02:02:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.64 Mbit/s

95th percentile per-packet one-way delay: 89.809 ms

Loss rate: 0.66%

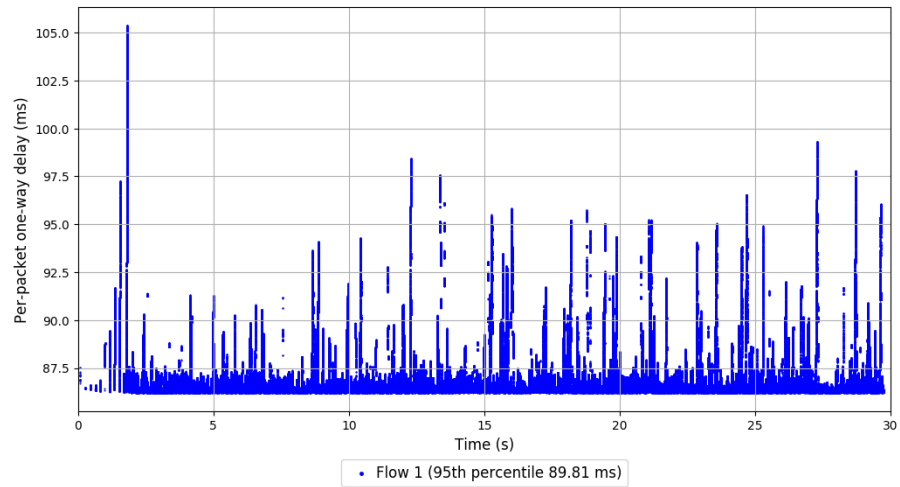
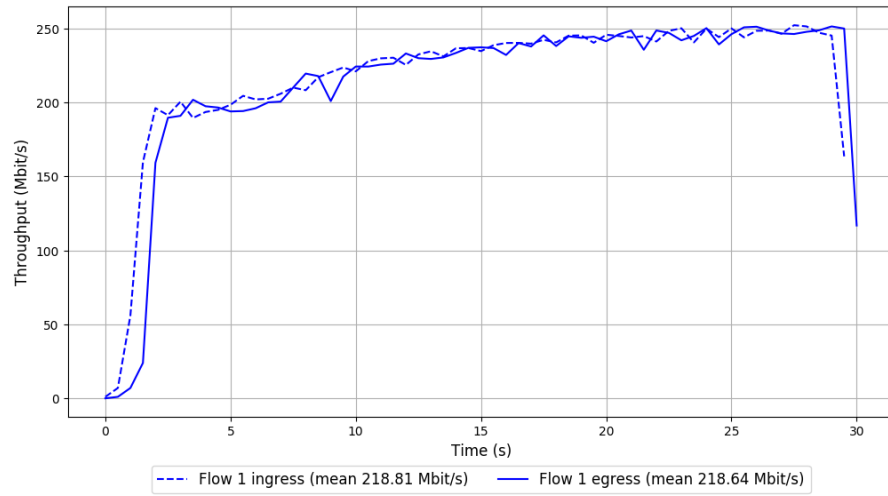
-- Flow 1:

Average throughput: 218.64 Mbit/s

95th percentile per-packet one-way delay: 89.809 ms

Loss rate: 0.66%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-11-23 22:31:19

End at: 2019-11-23 22:31:49

Local clock offset: 9.728 ms

Remote clock offset: 9.866 ms

Below is generated by plot.py at 2019-11-24 02:02:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 637.38 Mbit/s

95th percentile per-packet one-way delay: 112.152 ms

Loss rate: 0.69%

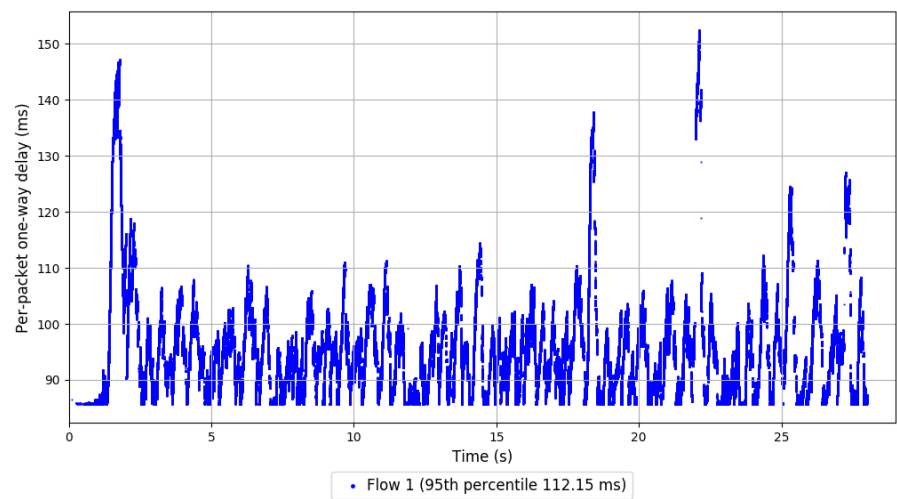
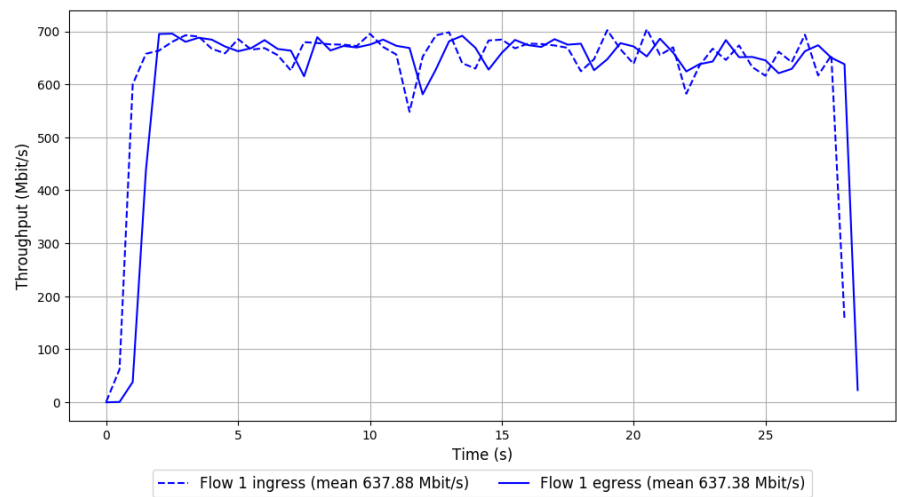
-- Flow 1:

Average throughput: 637.38 Mbit/s

95th percentile per-packet one-way delay: 112.152 ms

Loss rate: 0.69%

Run 1: Report of Indigo-MusesC3 — Data Link

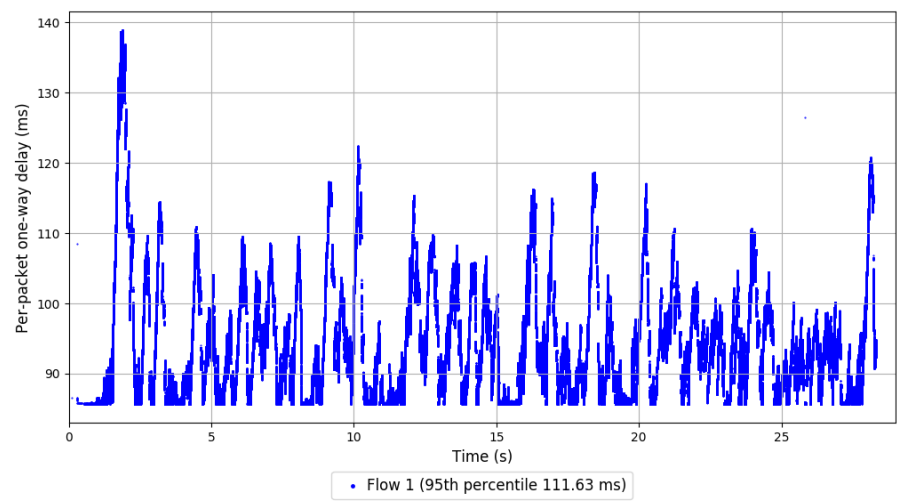
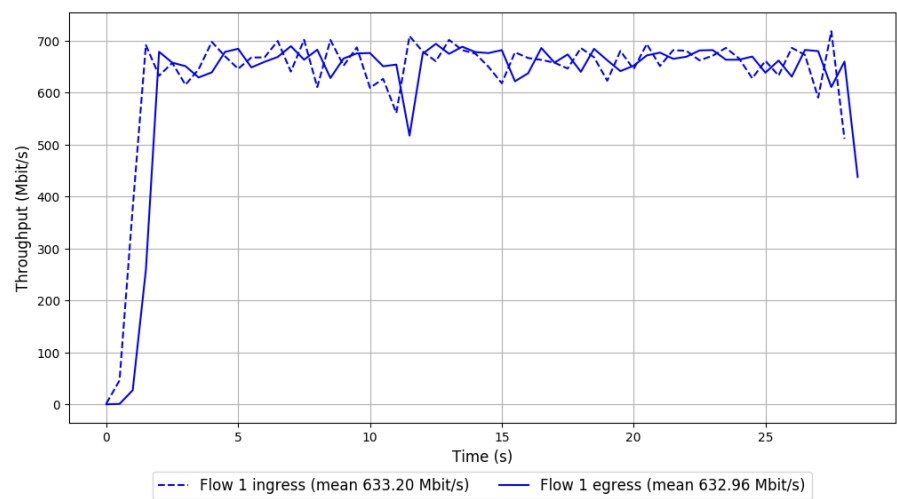


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-11-23 23:06:54
End at: 2019-11-23 23:07:24
Local clock offset: 21.293 ms
Remote clock offset: 21.508 ms

Below is generated by plot.py at 2019-11-24 02:06:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 632.96 Mbit/s
95th percentile per-packet one-way delay: 111.631 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 632.96 Mbit/s
95th percentile per-packet one-way delay: 111.631 ms
Loss rate: 0.65%

Run 2: Report of Indigo-MusesC3 — Data Link

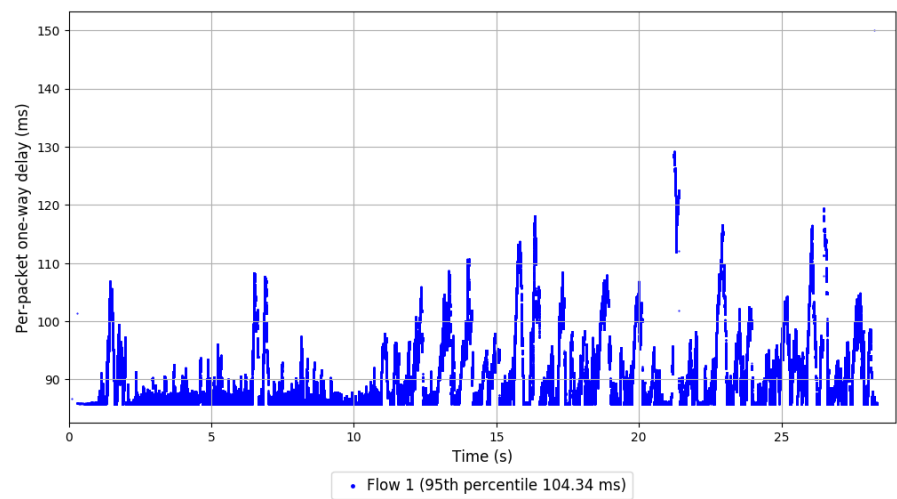
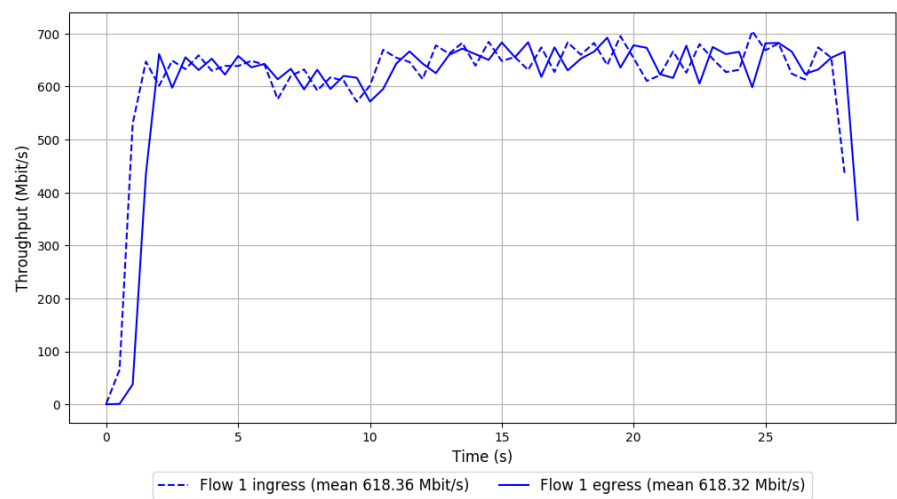


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-11-23 23:41:16
End at: 2019-11-23 23:41:46
Local clock offset: 11.713 ms
Remote clock offset: 11.941 ms

Below is generated by plot.py at 2019-11-24 02:07:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 618.32 Mbit/s
95th percentile per-packet one-way delay: 104.339 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 618.32 Mbit/s
95th percentile per-packet one-way delay: 104.339 ms
Loss rate: 0.62%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-11-24 00:16:53

End at: 2019-11-24 00:17:23

Local clock offset: 5.646 ms

Remote clock offset: 5.967 ms

Below is generated by plot.py at 2019-11-24 02:07:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 602.12 Mbit/s

95th percentile per-packet one-way delay: 122.065 ms

Loss rate: 0.69%

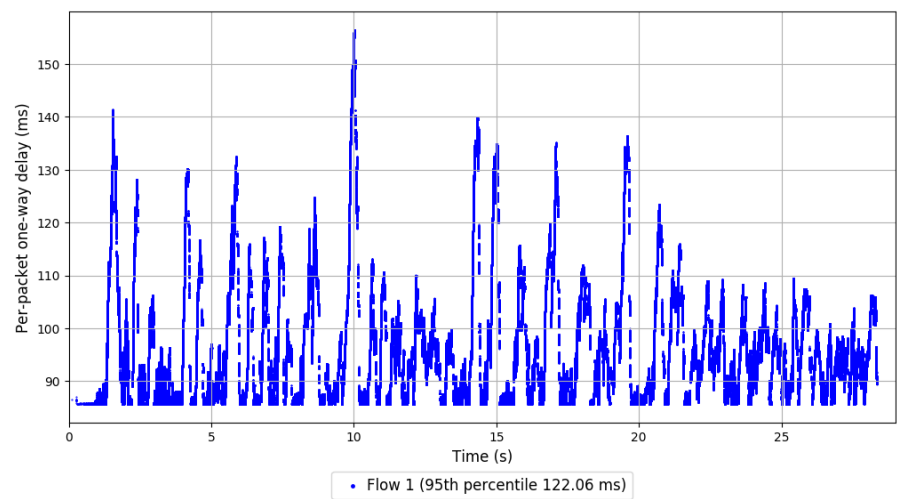
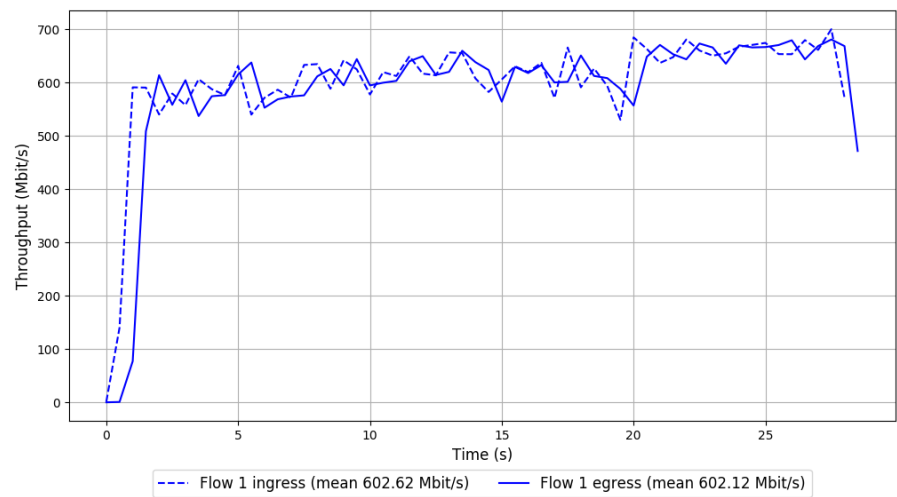
-- Flow 1:

Average throughput: 602.12 Mbit/s

95th percentile per-packet one-way delay: 122.065 ms

Loss rate: 0.69%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-11-24 00:51:57

End at: 2019-11-24 00:52:27

Local clock offset: 1.444 ms

Remote clock offset: 1.361 ms

Below is generated by plot.py at 2019-11-24 02:09:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 665.05 Mbit/s

95th percentile per-packet one-way delay: 103.877 ms

Loss rate: 0.66%

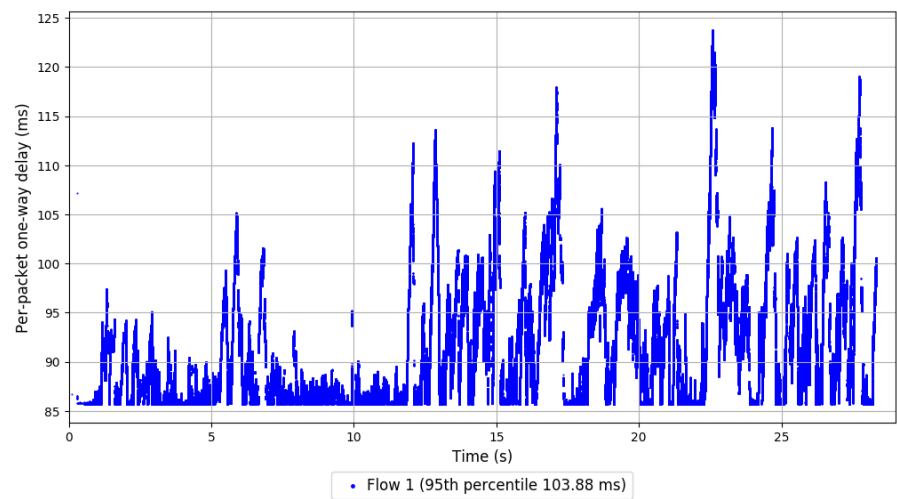
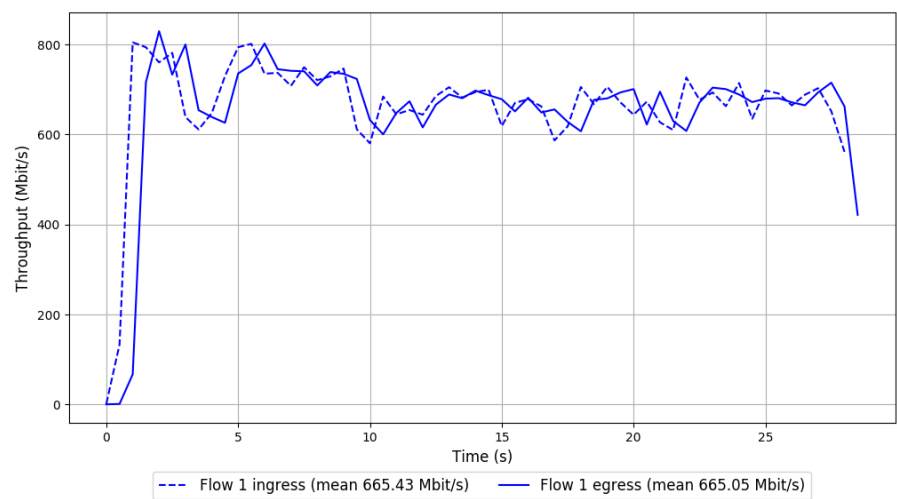
-- Flow 1:

Average throughput: 665.05 Mbit/s

95th percentile per-packet one-way delay: 103.877 ms

Loss rate: 0.66%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

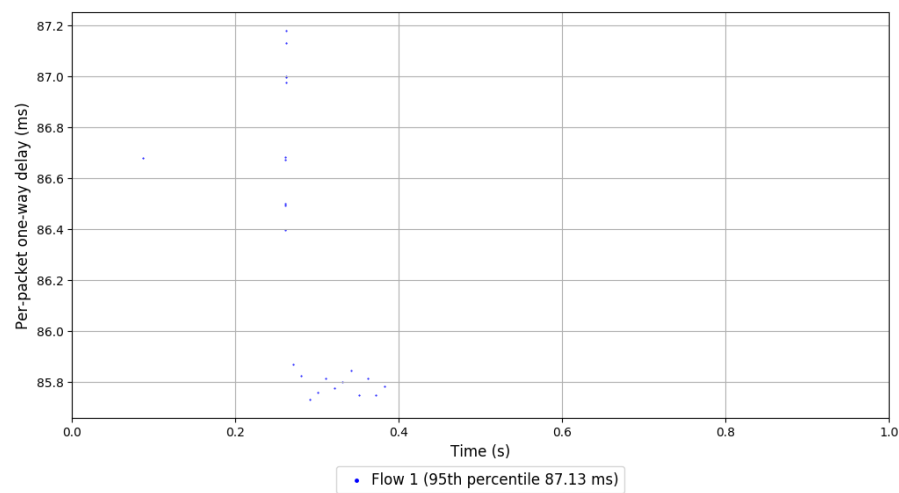
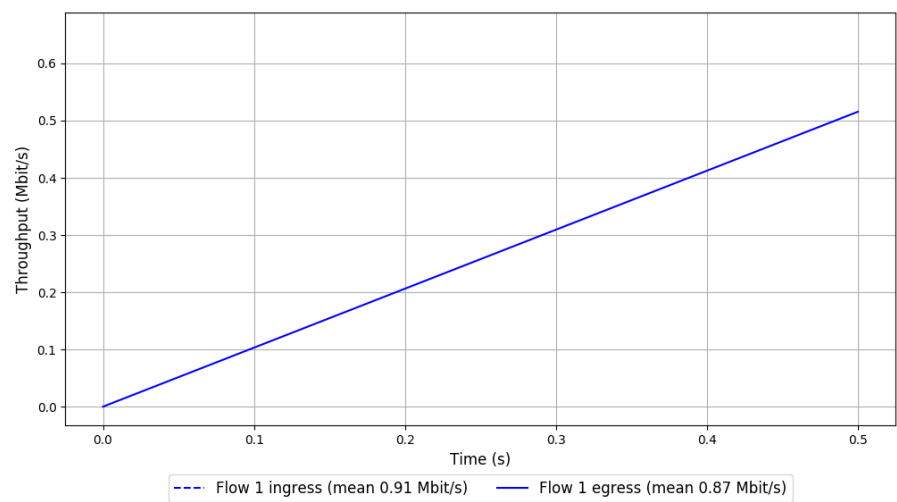
Start at: 2019-11-23 22:17:50

End at: 2019-11-23 22:18:20

Local clock offset: 8.515 ms

Remote clock offset: 8.872 ms

Run 1: Report of Indigo-MusesC5 — Data Link

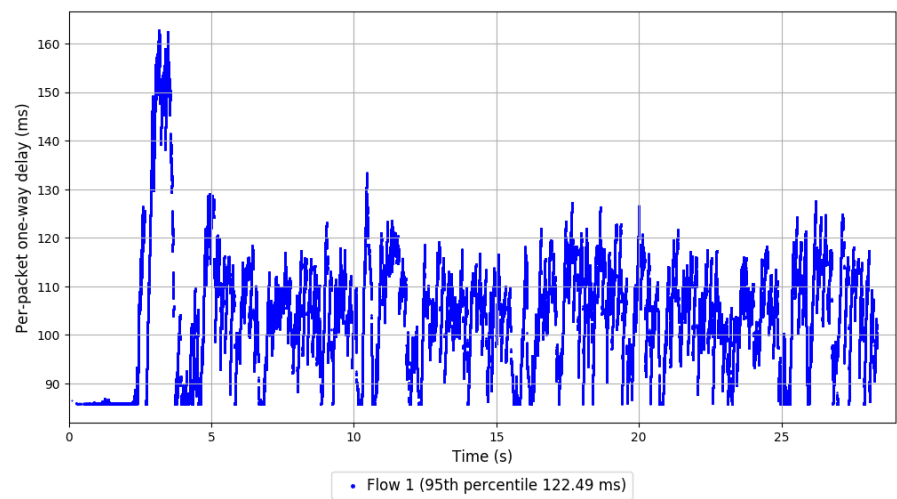
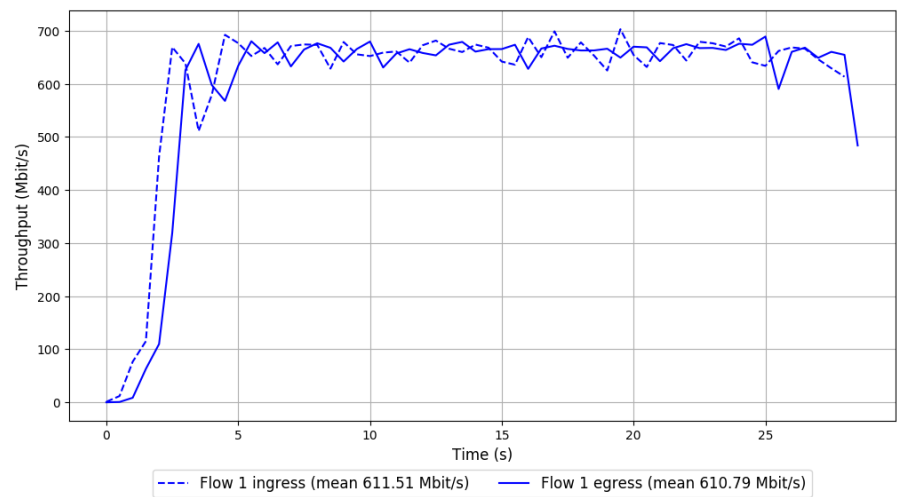


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-11-23 22:52:56
End at: 2019-11-23 22:53:26
Local clock offset: 14.631 ms
Remote clock offset: 14.721 ms

Below is generated by plot.py at 2019-11-24 02:09:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 610.79 Mbit/s
95th percentile per-packet one-way delay: 122.490 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 610.79 Mbit/s
95th percentile per-packet one-way delay: 122.490 ms
Loss rate: 0.72%

Run 2: Report of Indigo-MusesC5 — Data Link

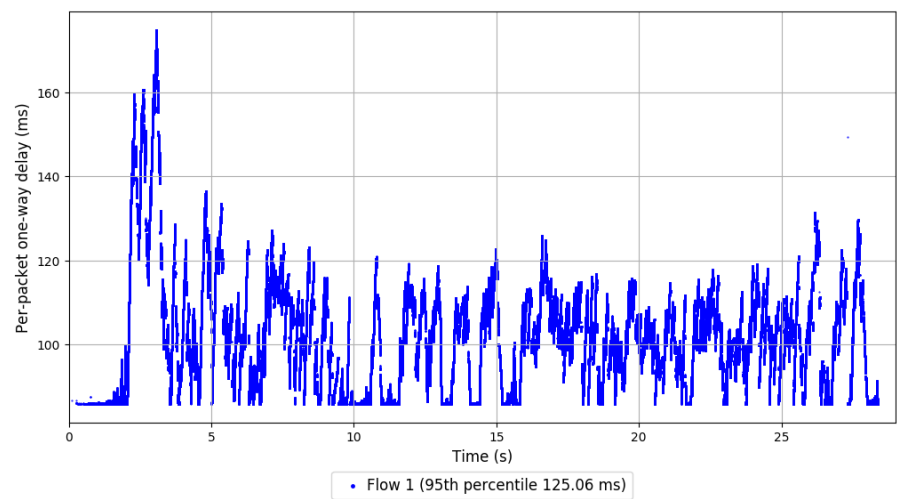
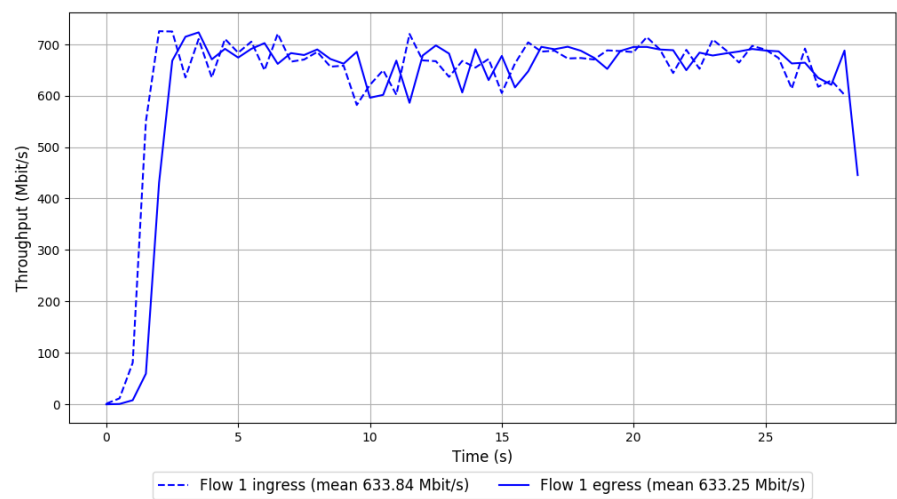


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-11-23 23:28:01
End at: 2019-11-23 23:28:31
Local clock offset: 13.082 ms
Remote clock offset: 13.255 ms

Below is generated by plot.py at 2019-11-24 02:09:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 633.25 Mbit/s
95th percentile per-packet one-way delay: 125.058 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 633.25 Mbit/s
95th percentile per-packet one-way delay: 125.058 ms
Loss rate: 0.70%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-11-24 00:02:54

End at: 2019-11-24 00:03:24

Local clock offset: 6.129 ms

Remote clock offset: 6.367 ms

Below is generated by plot.py at 2019-11-24 02:12:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 612.10 Mbit/s

95th percentile per-packet one-way delay: 177.504 ms

Loss rate: 1.18%

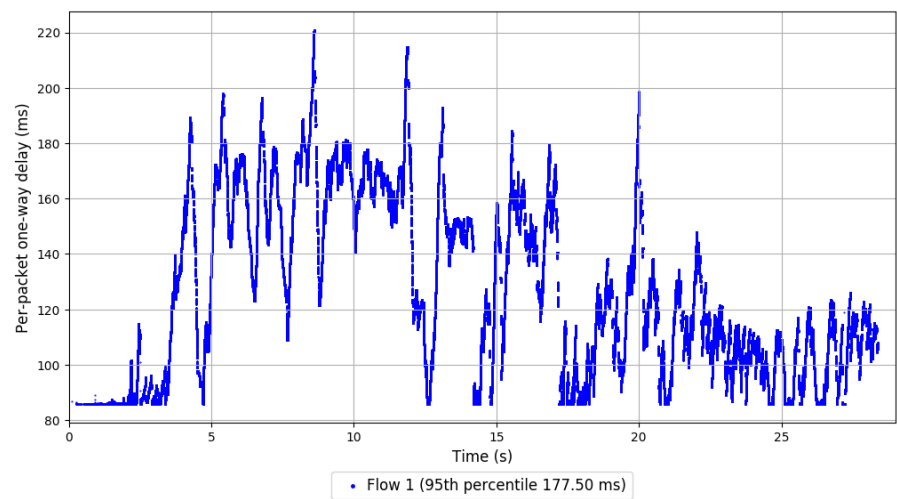
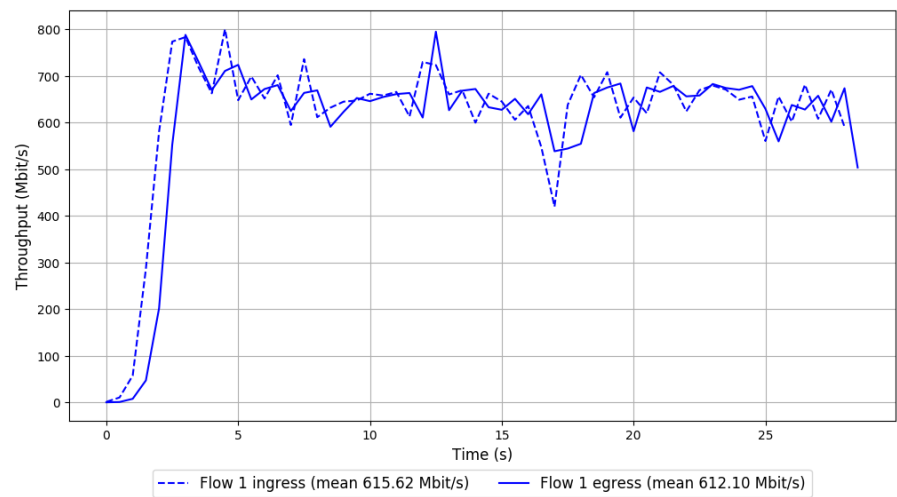
-- Flow 1:

Average throughput: 612.10 Mbit/s

95th percentile per-packet one-way delay: 177.504 ms

Loss rate: 1.18%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-11-24 00:37:56

End at: 2019-11-24 00:38:26

Local clock offset: 2.253 ms

Remote clock offset: 2.174 ms

Below is generated by plot.py at 2019-11-24 02:12:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 602.33 Mbit/s

95th percentile per-packet one-way delay: 153.895 ms

Loss rate: 0.77%

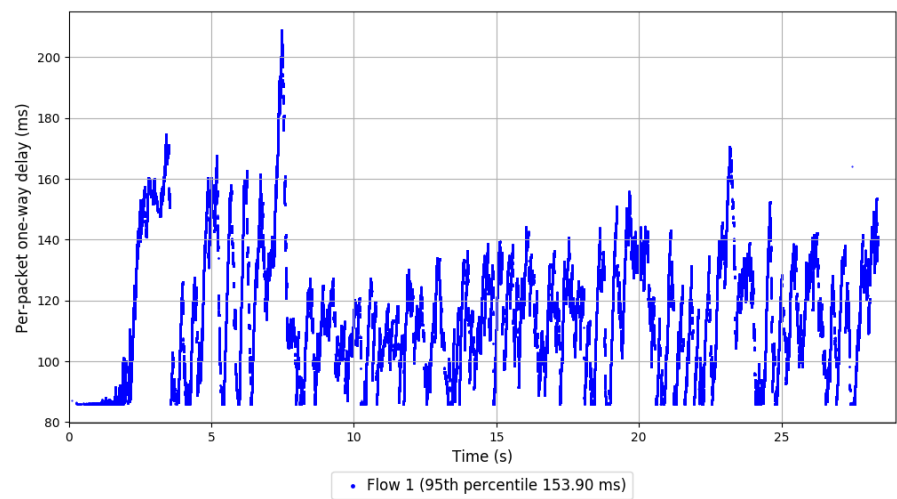
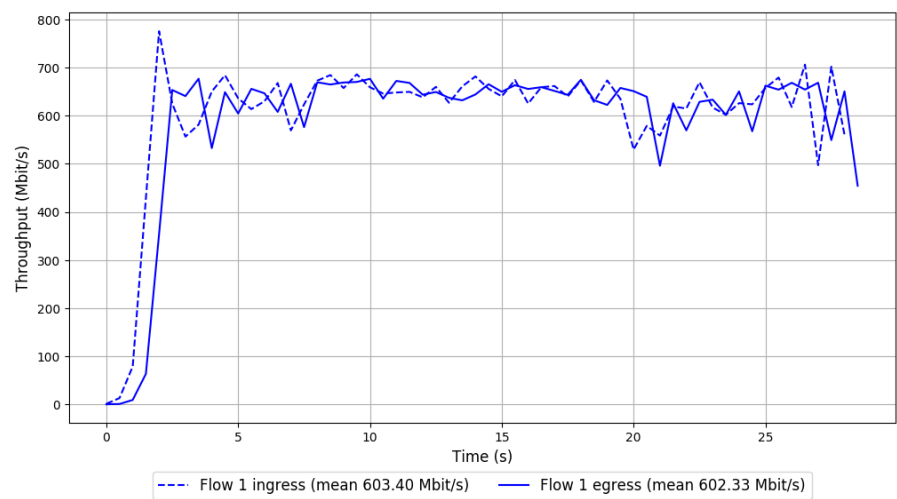
-- Flow 1:

Average throughput: 602.33 Mbit/s

95th percentile per-packet one-way delay: 153.895 ms

Loss rate: 0.77%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-11-23 22:38:54

End at: 2019-11-23 22:39:24

Local clock offset: 14.874 ms

Remote clock offset: 15.164 ms

Below is generated by plot.py at 2019-11-24 02:16:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 587.93 Mbit/s

95th percentile per-packet one-way delay: 144.044 ms

Loss rate: 0.94%

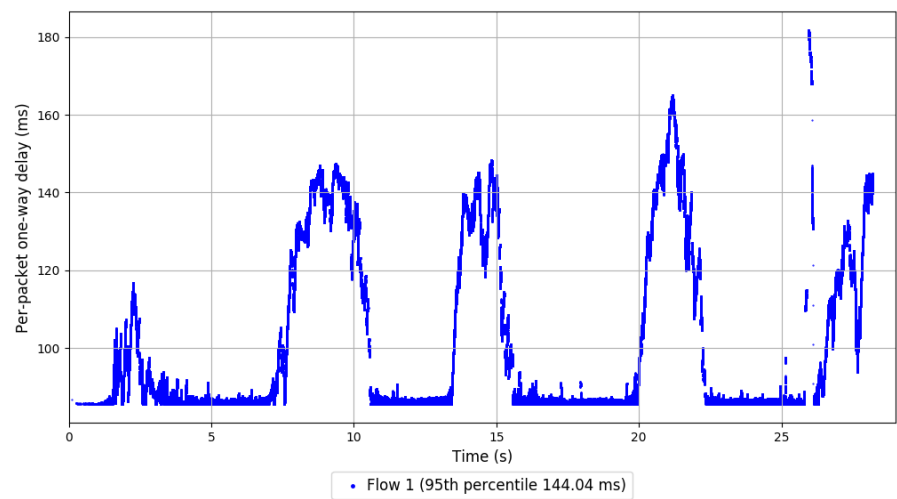
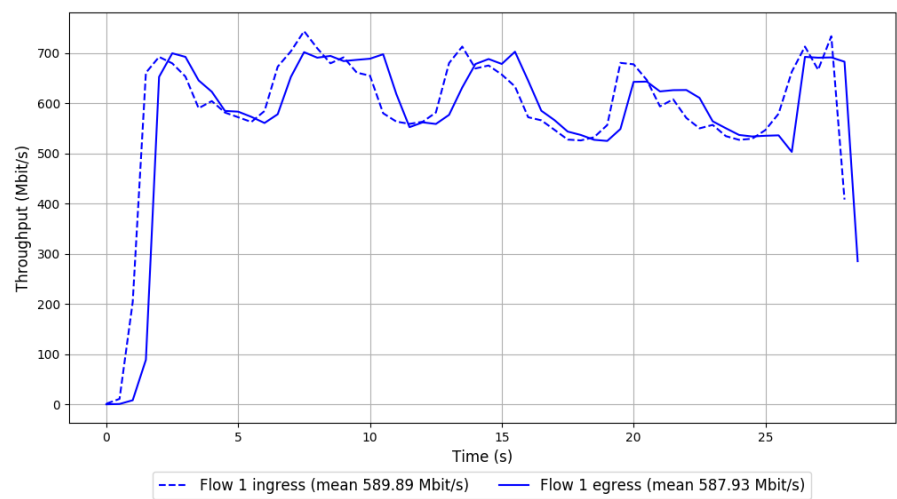
-- Flow 1:

Average throughput: 587.93 Mbit/s

95th percentile per-packet one-way delay: 144.044 ms

Loss rate: 0.94%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-11-23 23:14:18

End at: 2019-11-23 23:14:49

Local clock offset: 26.713 ms

Remote clock offset: 27.252 ms

Below is generated by plot.py at 2019-11-24 02:17:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 575.74 Mbit/s

95th percentile per-packet one-way delay: 141.170 ms

Loss rate: 0.75%

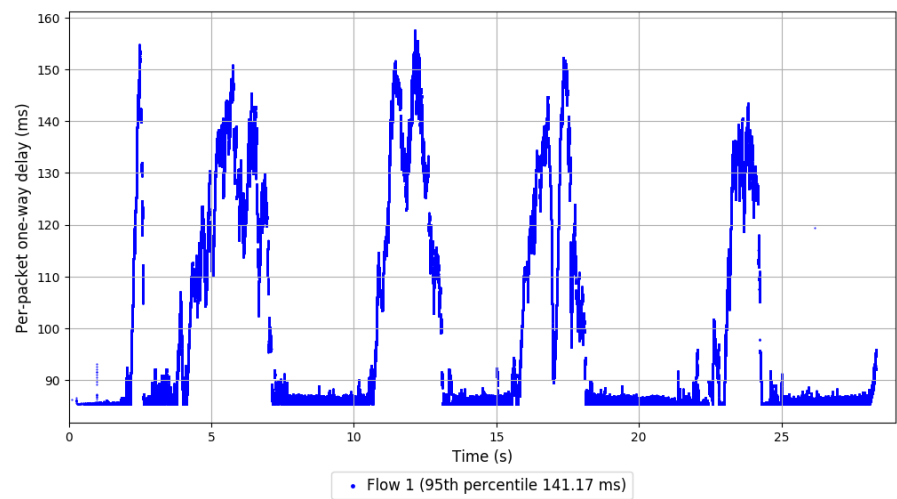
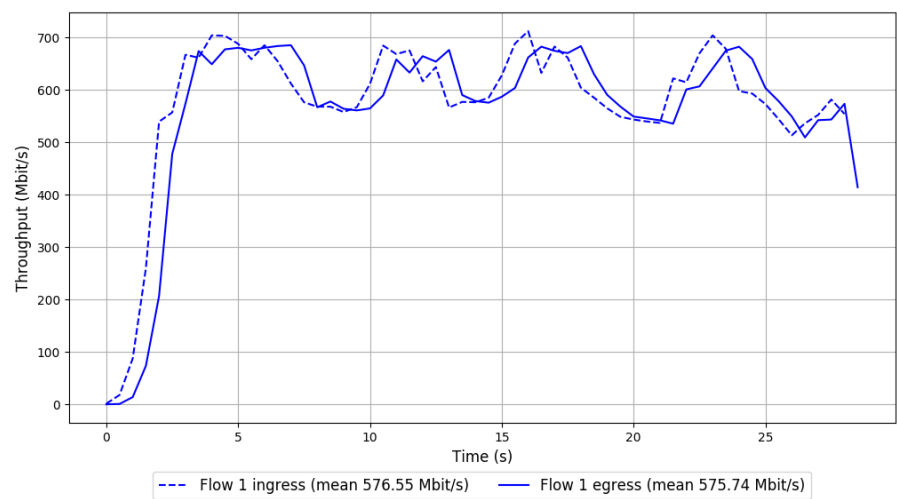
-- Flow 1:

Average throughput: 575.74 Mbit/s

95th percentile per-packet one-way delay: 141.170 ms

Loss rate: 0.75%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-11-23 23:49:01

End at: 2019-11-23 23:49:31

Local clock offset: 13.84 ms

Remote clock offset: 14.1 ms

Below is generated by plot.py at 2019-11-24 02:17:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 565.19 Mbit/s

95th percentile per-packet one-way delay: 139.270 ms

Loss rate: 0.69%

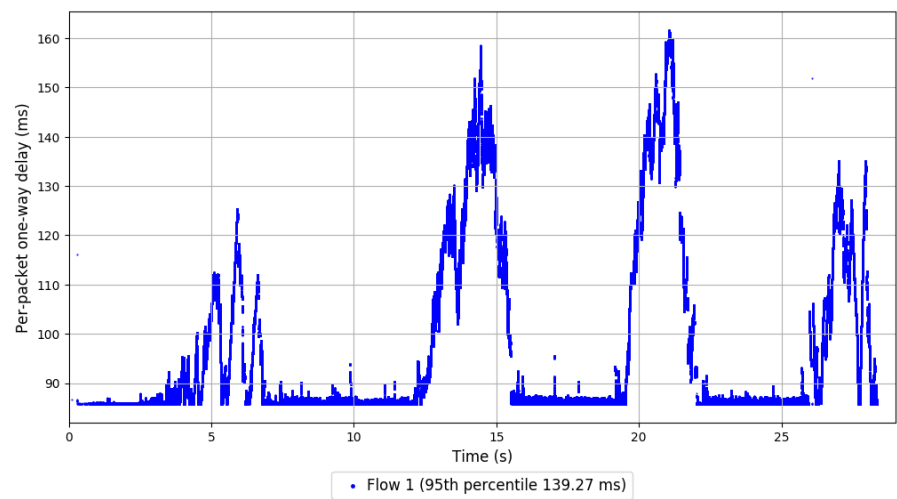
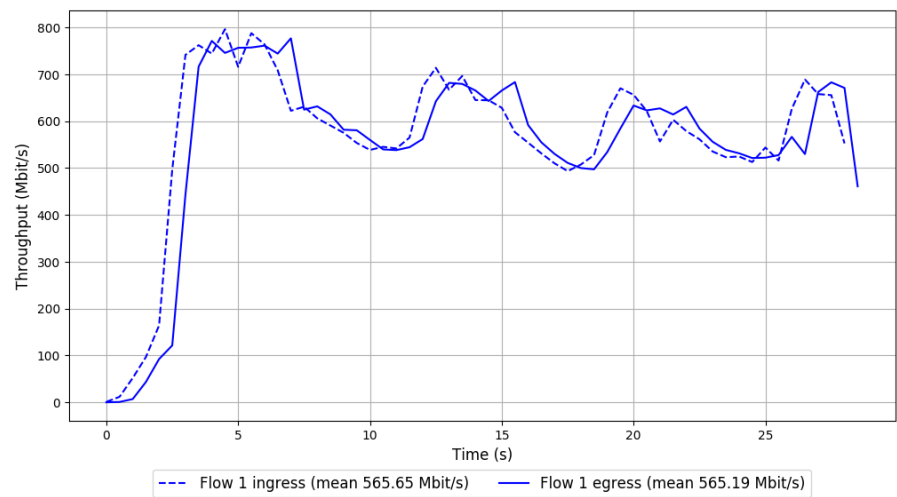
-- Flow 1:

Average throughput: 565.19 Mbit/s

95th percentile per-packet one-way delay: 139.270 ms

Loss rate: 0.69%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-11-24 00:23:56

End at: 2019-11-24 00:24:26

Local clock offset: 6.988 ms

Remote clock offset: 6.958 ms

Below is generated by plot.py at 2019-11-24 02:18:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 573.50 Mbit/s

95th percentile per-packet one-way delay: 151.662 ms

Loss rate: 0.66%

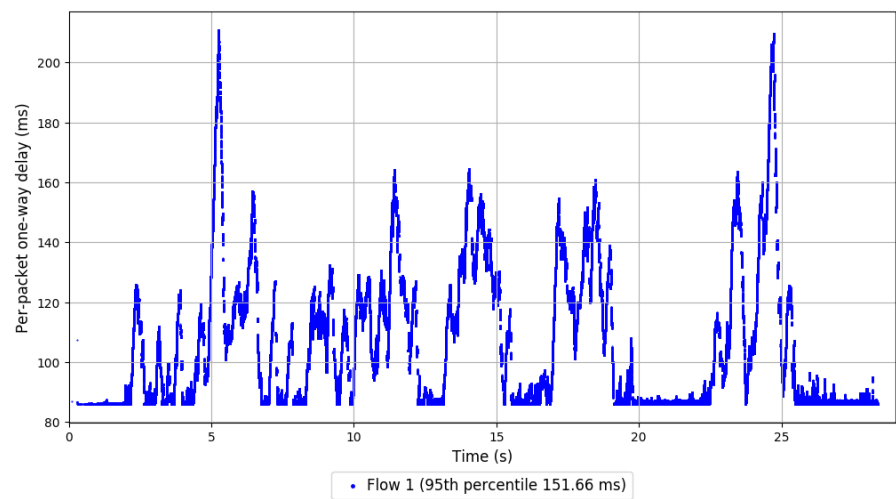
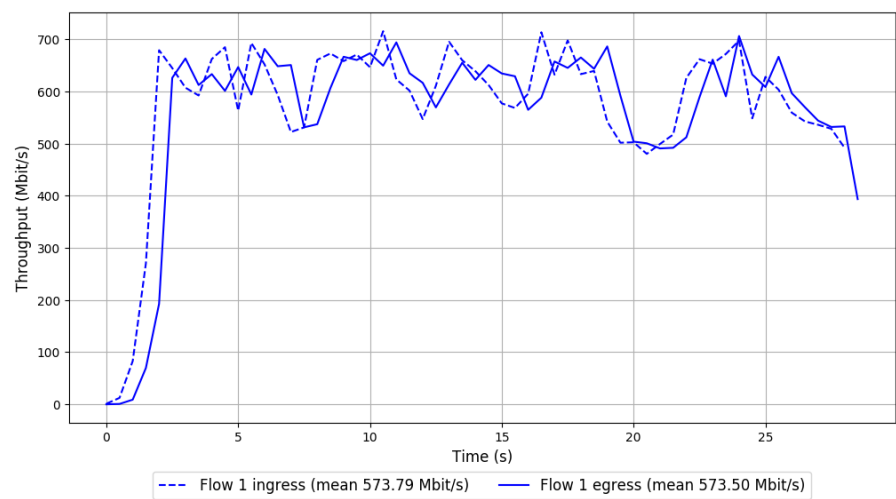
-- Flow 1:

Average throughput: 573.50 Mbit/s

95th percentile per-packet one-way delay: 151.662 ms

Loss rate: 0.66%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-11-24 00:59:35

End at: 2019-11-24 01:00:05

Local clock offset: 1.612 ms

Remote clock offset: 1.47 ms

Below is generated by plot.py at 2019-11-24 02:18:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 527.47 Mbit/s

95th percentile per-packet one-way delay: 144.922 ms

Loss rate: 0.77%

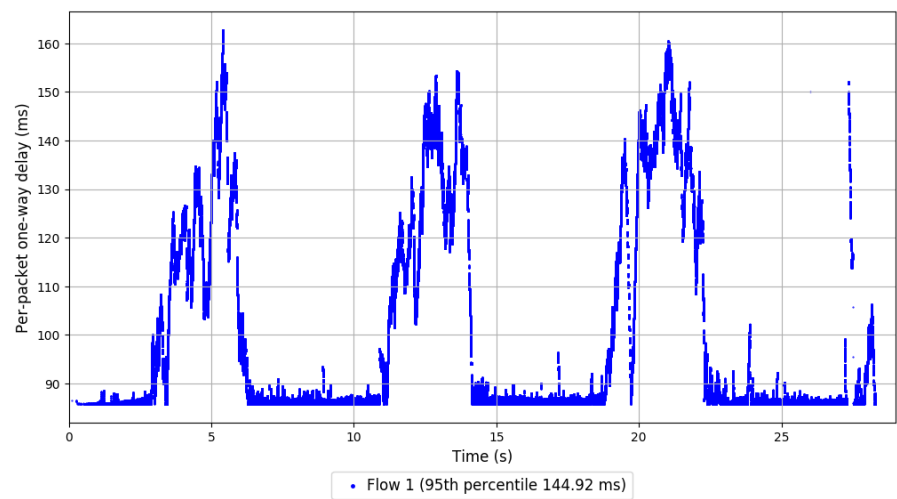
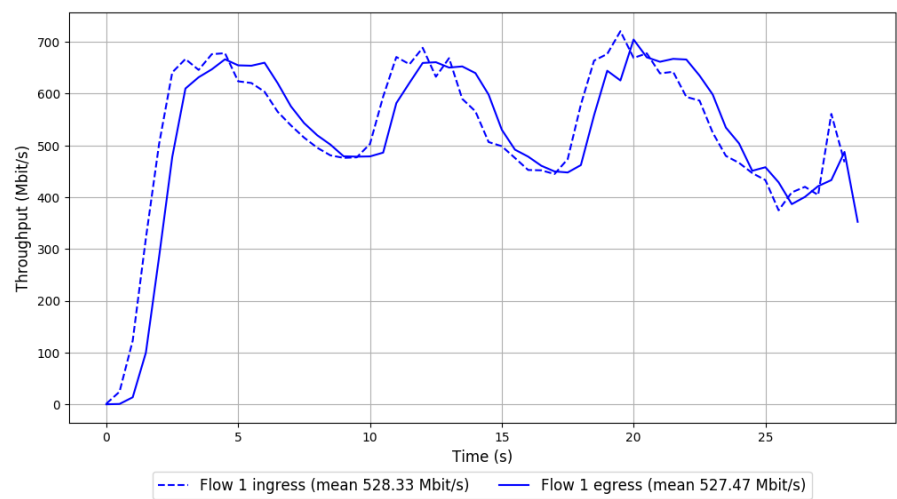
-- Flow 1:

Average throughput: 527.47 Mbit/s

95th percentile per-packet one-way delay: 144.922 ms

Loss rate: 0.77%

Run 5: Report of Indigo-MusesD — Data Link

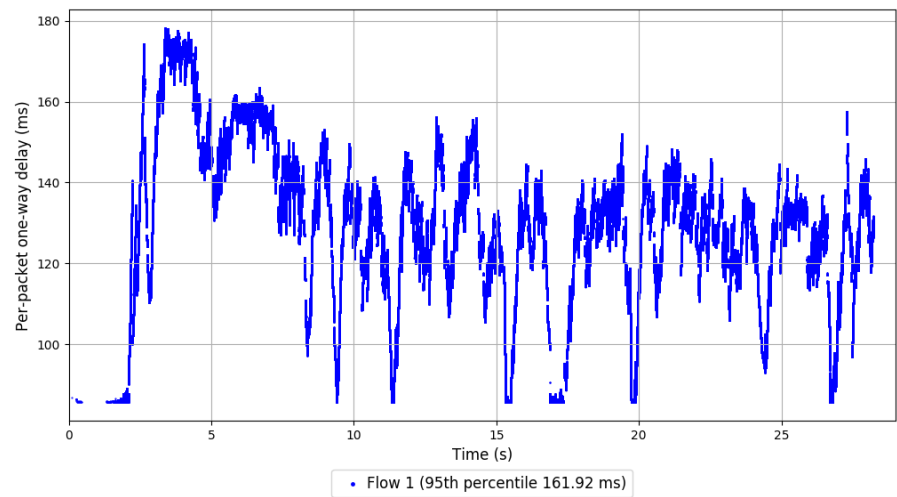
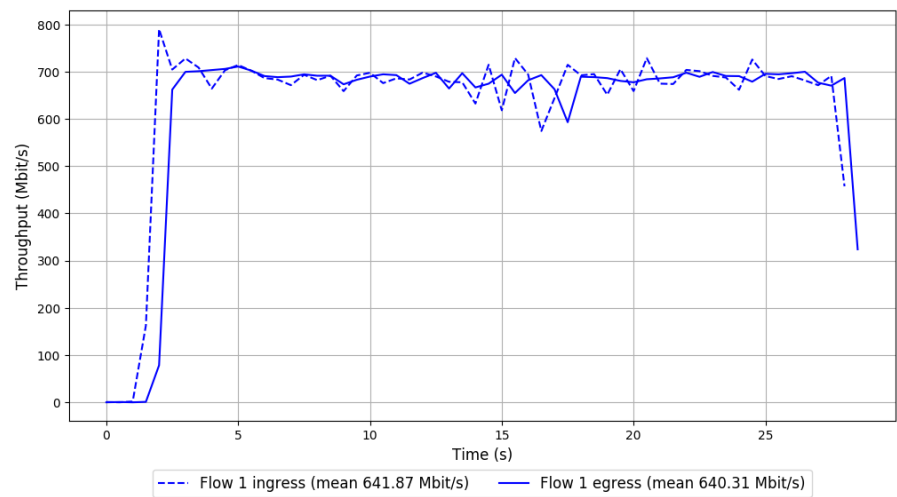


```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-11-23 22:23:44
End at: 2019-11-23 22:24:14
Local clock offset: 9.685 ms
Remote clock offset: 9.423 ms

# Below is generated by plot.py at 2019-11-24 02:19:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 640.31 Mbit/s
95th percentile per-packet one-way delay: 161.921 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 640.31 Mbit/s
95th percentile per-packet one-way delay: 161.921 ms
Loss rate: 0.85%
```

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-11-23 22:59:23

End at: 2019-11-23 22:59:53

Local clock offset: 16.551 ms

Remote clock offset: 16.785 ms

Below is generated by plot.py at 2019-11-24 02:23:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 645.64 Mbit/s

95th percentile per-packet one-way delay: 149.968 ms

Loss rate: 0.93%

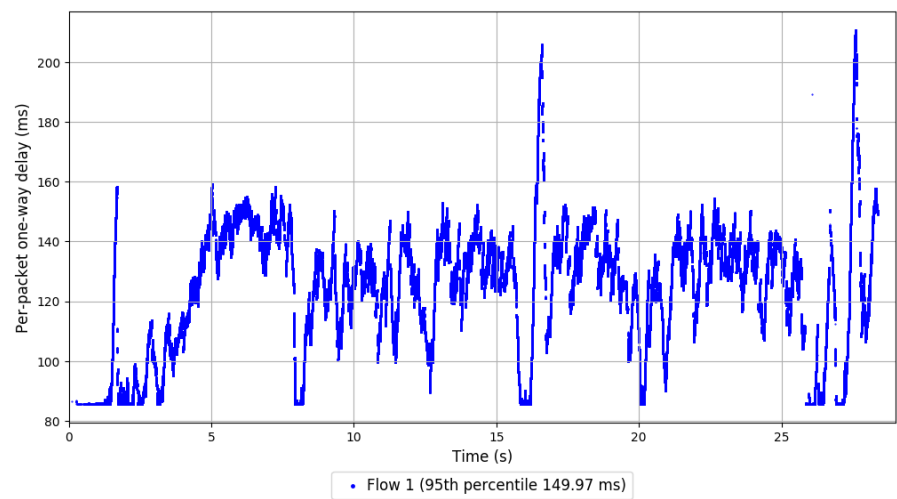
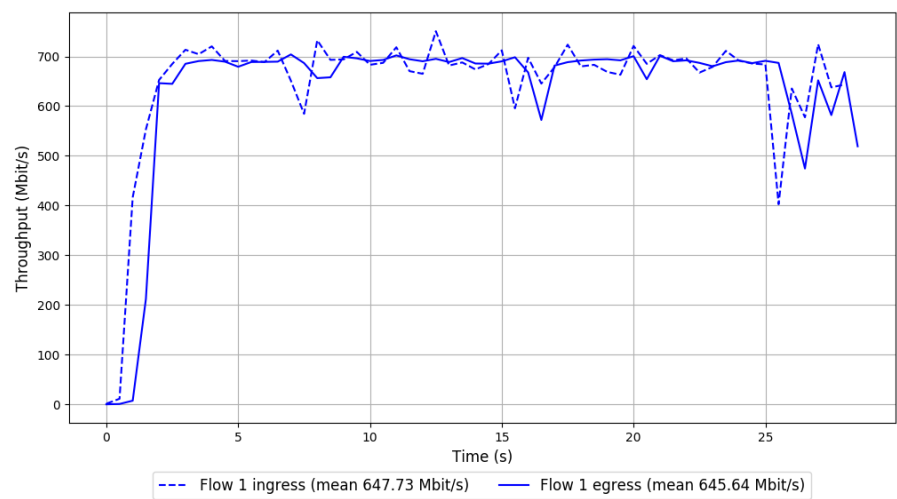
-- Flow 1:

Average throughput: 645.64 Mbit/s

95th percentile per-packet one-way delay: 149.968 ms

Loss rate: 0.93%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-11-23 23:34:25

End at: 2019-11-23 23:34:55

Local clock offset: 11.08 ms

Remote clock offset: 11.191 ms

Below is generated by plot.py at 2019-11-24 02:23:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 646.93 Mbit/s

95th percentile per-packet one-way delay: 159.842 ms

Loss rate: 1.06%

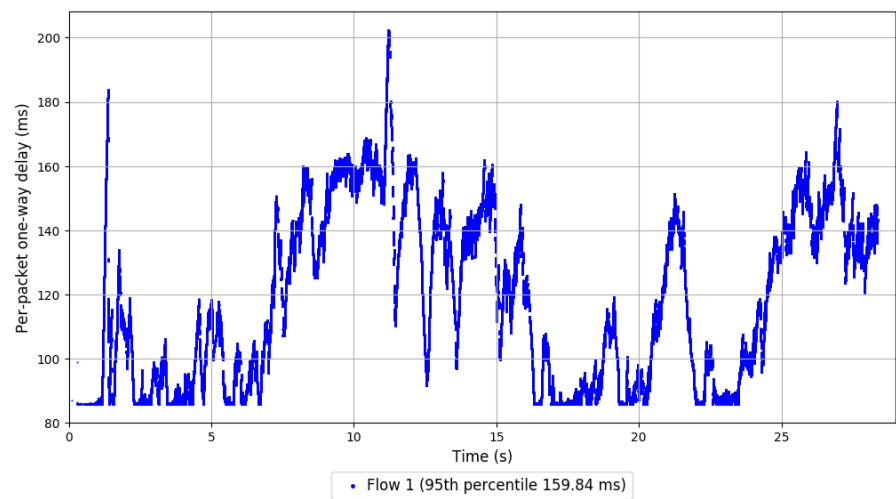
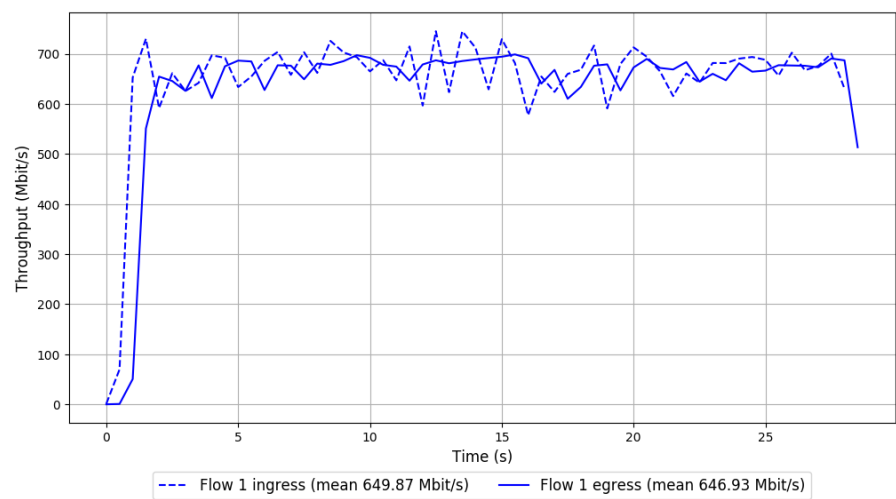
-- Flow 1:

Average throughput: 646.93 Mbit/s

95th percentile per-packet one-way delay: 159.842 ms

Loss rate: 1.06%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-11-24 00:09:15

End at: 2019-11-24 00:09:45

Local clock offset: 5.297 ms

Remote clock offset: 5.512 ms

Below is generated by plot.py at 2019-11-24 02:27:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 632.10 Mbit/s

95th percentile per-packet one-way delay: 163.937 ms

Loss rate: 1.13%

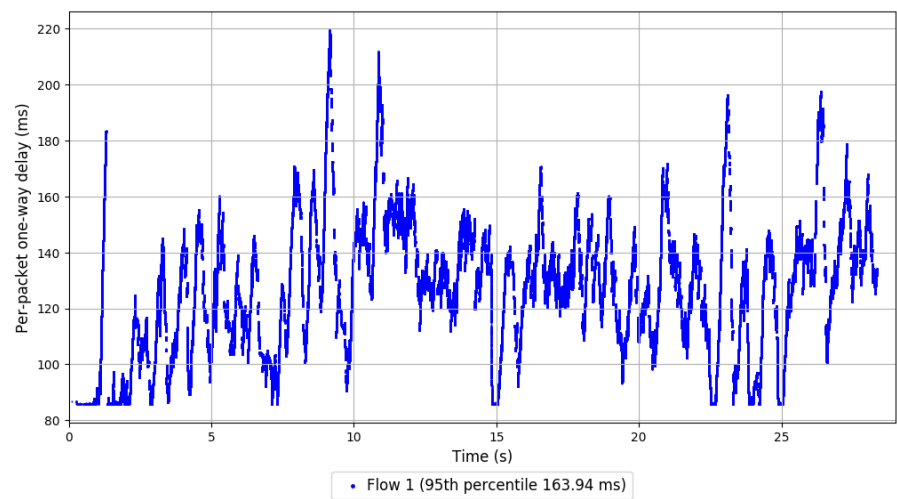
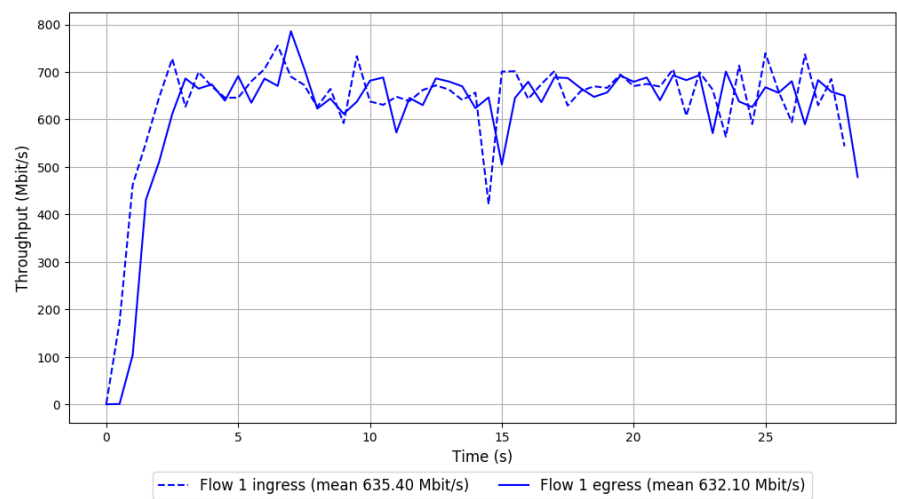
-- Flow 1:

Average throughput: 632.10 Mbit/s

95th percentile per-packet one-way delay: 163.937 ms

Loss rate: 1.13%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-11-24 00:44:23

End at: 2019-11-24 00:44:53

Local clock offset: 1.564 ms

Remote clock offset: 1.49 ms

Below is generated by plot.py at 2019-11-24 02:27:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 611.96 Mbit/s

95th percentile per-packet one-way delay: 169.222 ms

Loss rate: 0.98%

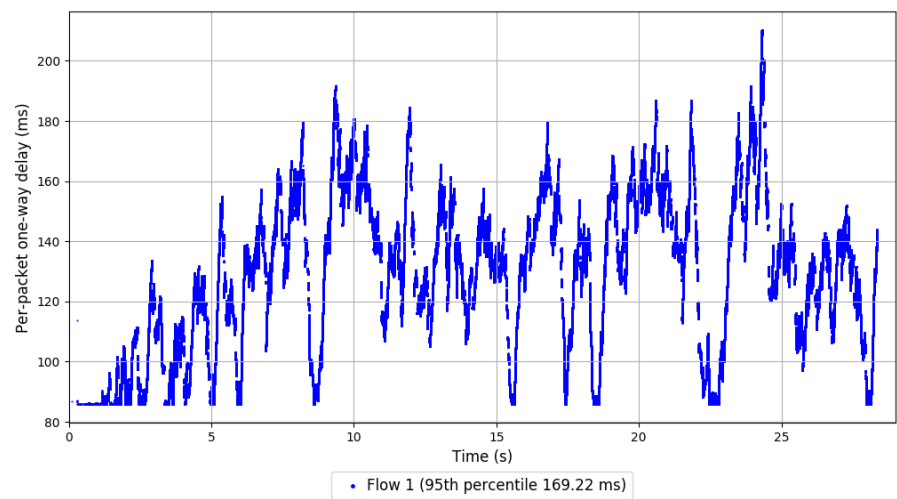
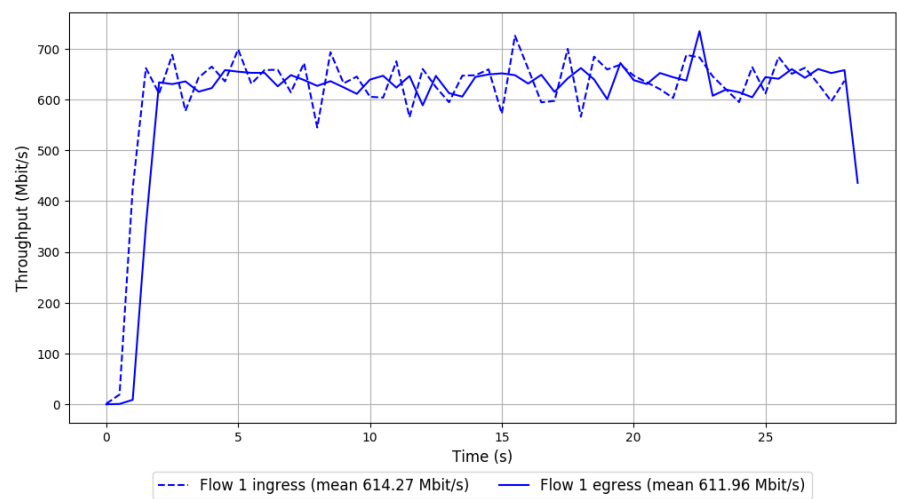
-- Flow 1:

Average throughput: 611.96 Mbit/s

95th percentile per-packet one-way delay: 169.222 ms

Loss rate: 0.98%

Run 5: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2019-11-23 22:16:39

End at: 2019-11-23 22:17:09

Local clock offset: 6.336 ms

Remote clock offset: 6.808 ms

Below is generated by plot.py at 2019-11-24 02:27:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.50 Mbit/s

95th percentile per-packet one-way delay: 86.038 ms

Loss rate: 1.15%

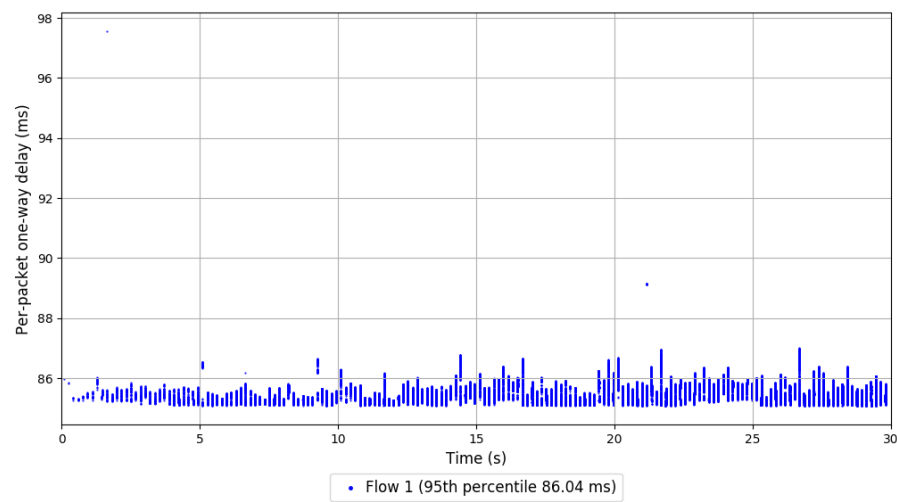
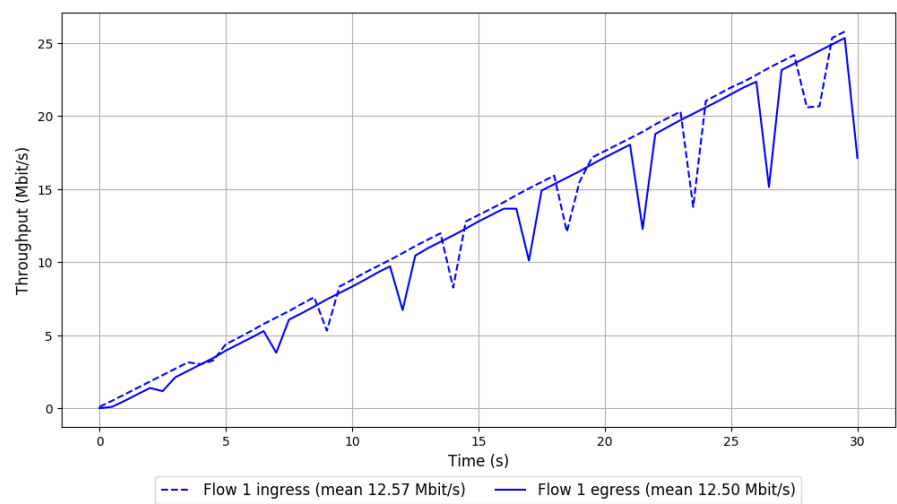
-- Flow 1:

Average throughput: 12.50 Mbit/s

95th percentile per-packet one-way delay: 86.038 ms

Loss rate: 1.15%

Run 1: Report of LEDBAT — Data Link

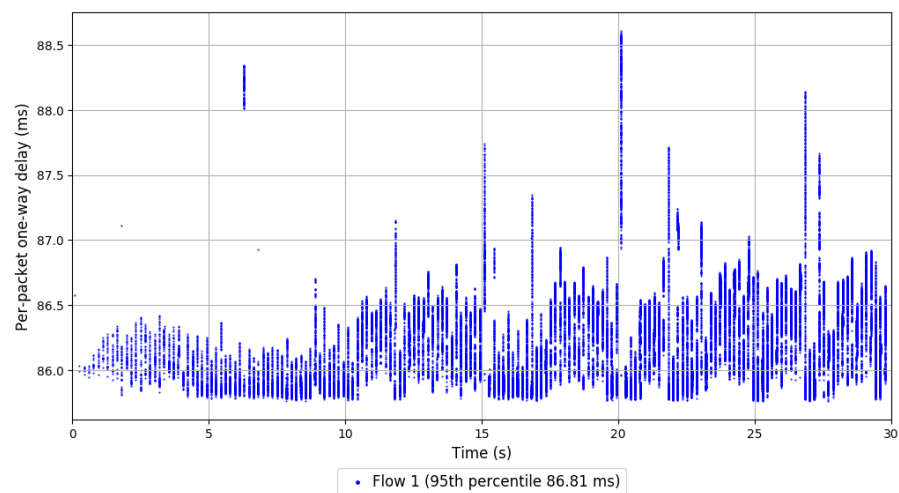
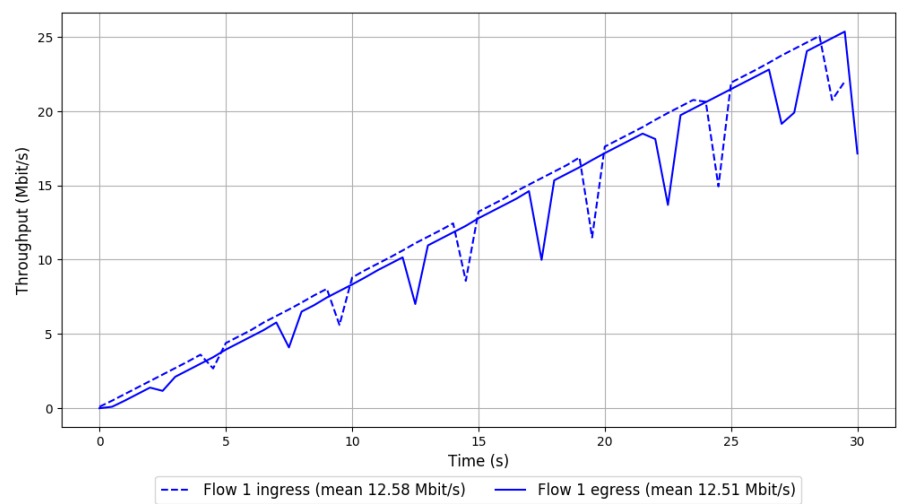


Run 2: Statistics of LEDBAT

Start at: 2019-11-23 22:51:46
End at: 2019-11-23 22:52:16
Local clock offset: 14.574 ms
Remote clock offset: 14.697 ms

Below is generated by plot.py at 2019-11-24 02:27:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.51 Mbit/s
95th percentile per-packet one-way delay: 86.806 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.51 Mbit/s
95th percentile per-packet one-way delay: 86.806 ms
Loss rate: 1.15%

Run 2: Report of LEDBAT — Data Link

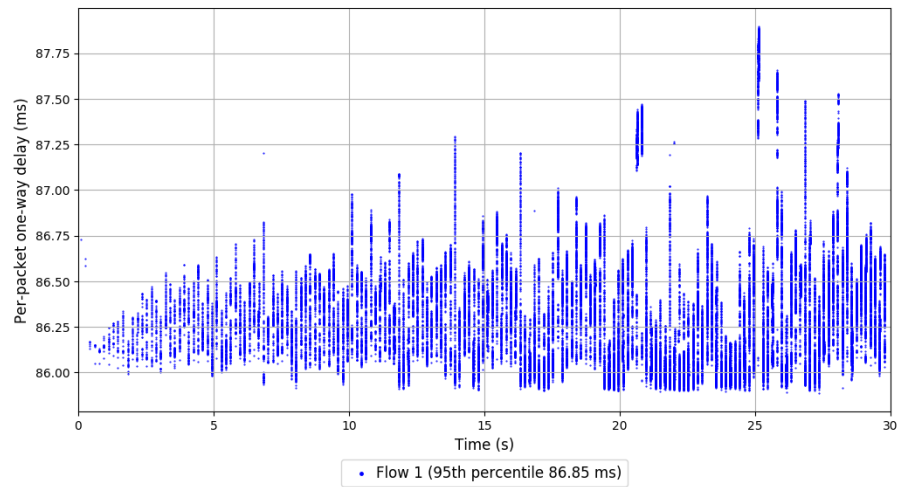
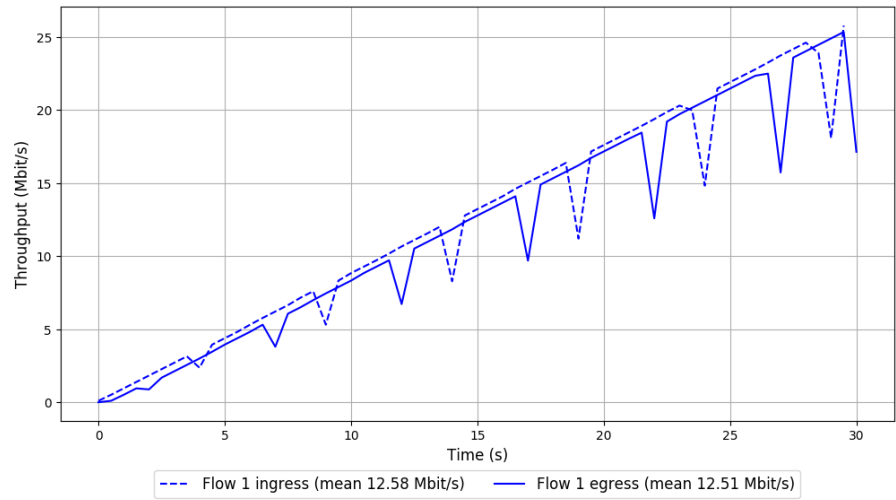


Run 3: Statistics of LEDBAT

Start at: 2019-11-23 23:26:50
End at: 2019-11-23 23:27:20
Local clock offset: 13.892 ms
Remote clock offset: 14.091 ms

Below is generated by plot.py at 2019-11-24 02:27:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.51 Mbit/s
95th percentile per-packet one-way delay: 86.854 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.51 Mbit/s
95th percentile per-packet one-way delay: 86.854 ms
Loss rate: 1.15%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-11-24 00:01:43

End at: 2019-11-24 00:02:13

Local clock offset: 6.52 ms

Remote clock offset: 6.748 ms

Below is generated by plot.py at 2019-11-24 02:27:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.55 Mbit/s

95th percentile per-packet one-way delay: 86.756 ms

Loss rate: 1.14%

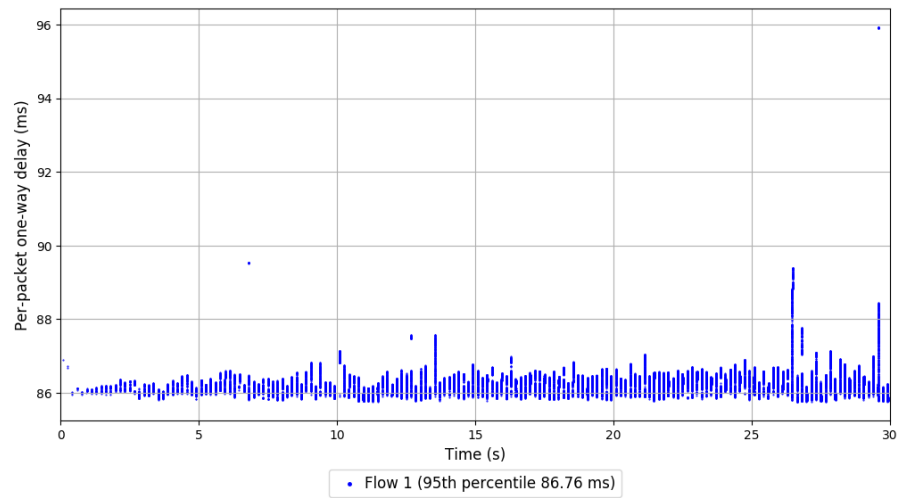
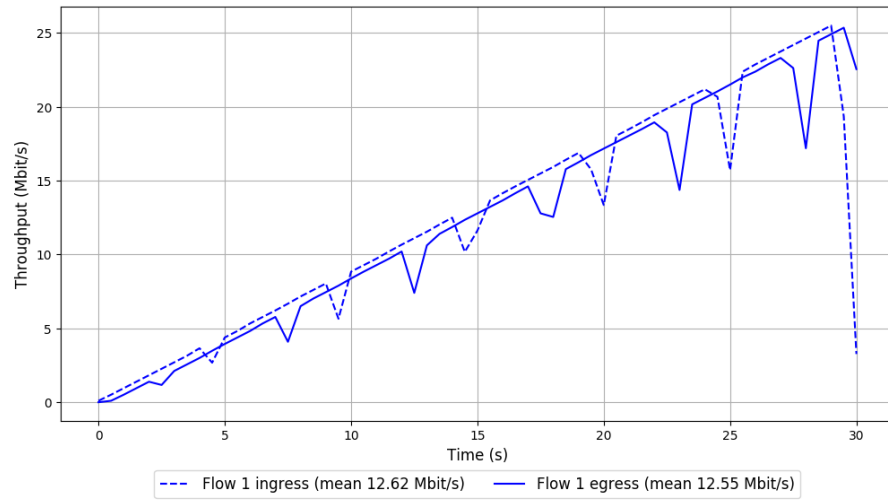
-- Flow 1:

Average throughput: 12.55 Mbit/s

95th percentile per-packet one-way delay: 86.756 ms

Loss rate: 1.14%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-11-24 00:36:46

End at: 2019-11-24 00:37:16

Local clock offset: 2.432 ms

Remote clock offset: 2.374 ms

Below is generated by plot.py at 2019-11-24 02:27:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.52 Mbit/s

95th percentile per-packet one-way delay: 86.620 ms

Loss rate: 1.15%

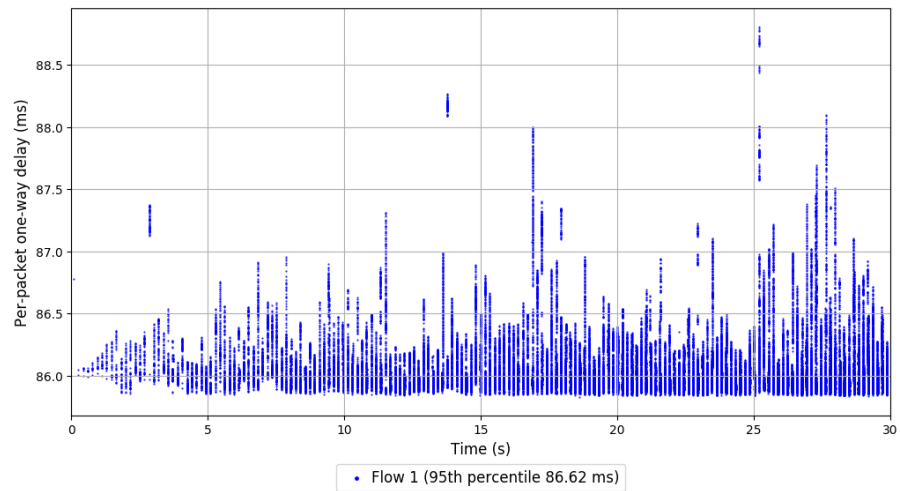
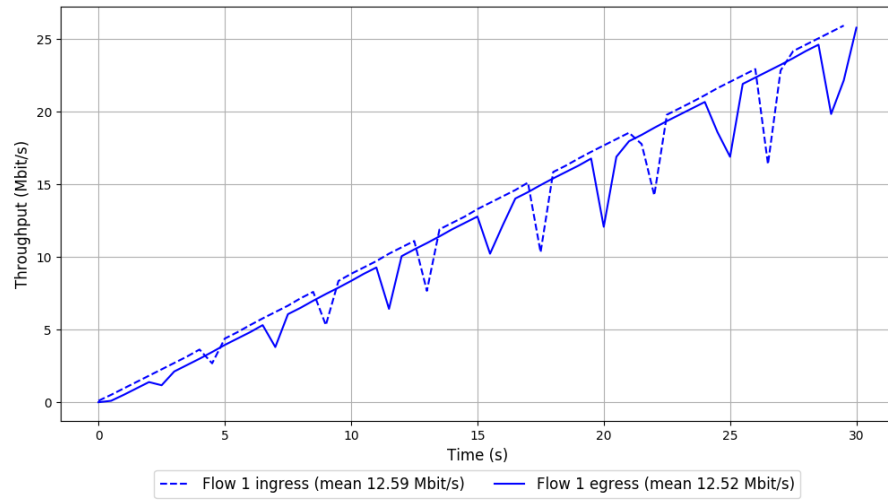
-- Flow 1:

Average throughput: 12.52 Mbit/s

95th percentile per-packet one-way delay: 86.620 ms

Loss rate: 1.15%

Run 5: Report of LEDBAT — Data Link

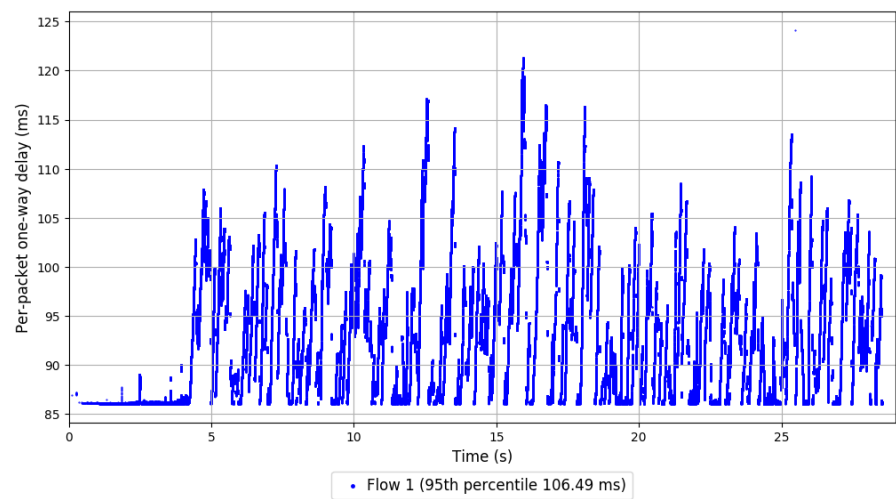
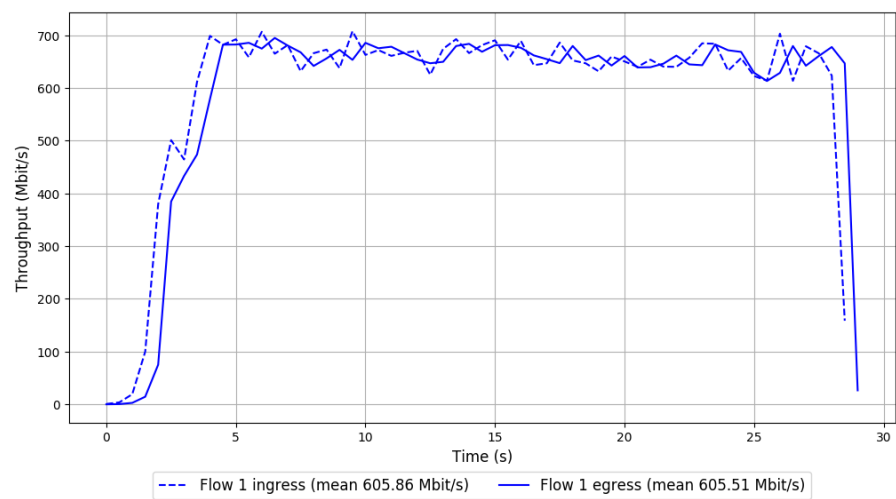


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-11-23 22:28:05
End at: 2019-11-23 22:28:36
Local clock offset: 10.933 ms
Remote clock offset: 10.851 ms

# Below is generated by plot.py at 2019-11-24 02:28:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 605.51 Mbit/s
95th percentile per-packet one-way delay: 106.494 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 605.51 Mbit/s
95th percentile per-packet one-way delay: 106.494 ms
Loss rate: 0.66%
```

Run 1: Report of Muses_DecisionTree — Data Link

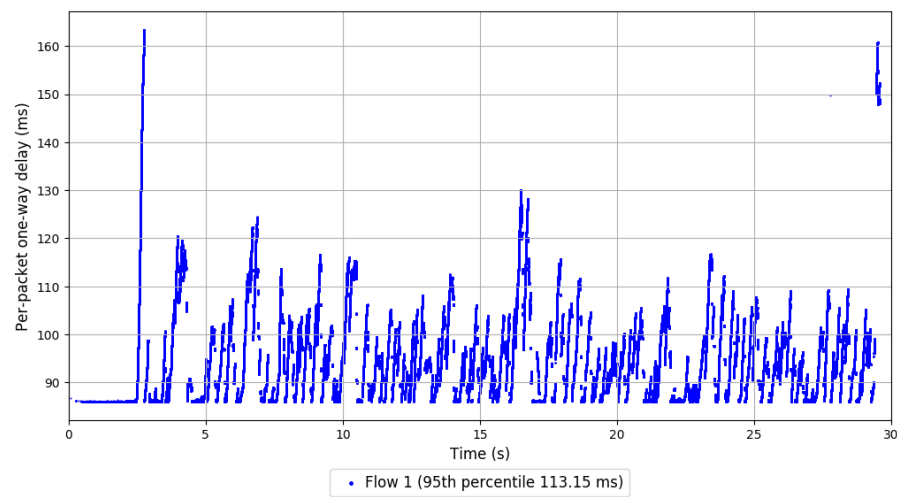
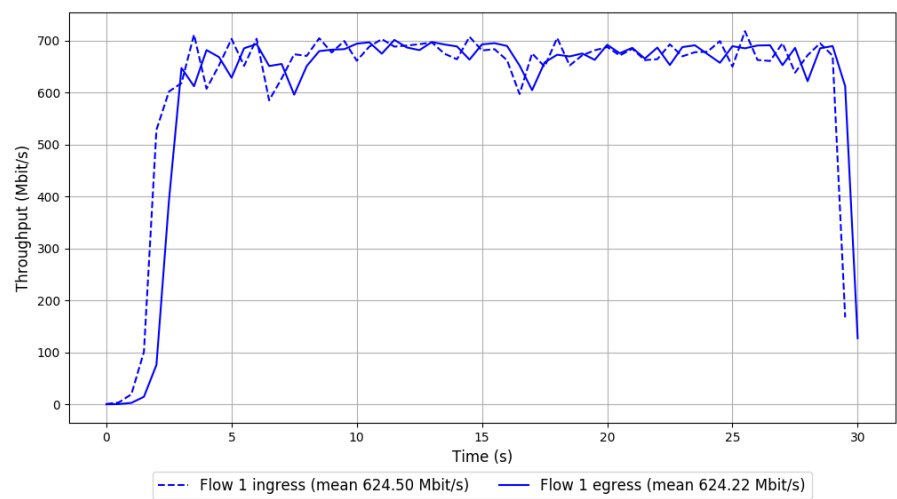


Run 2: Statistics of Muses_DecisionTree

Start at: 2019-11-23 23:03:45
End at: 2019-11-23 23:04:15
Local clock offset: 19.548 ms
Remote clock offset: 19.476 ms

Below is generated by plot.py at 2019-11-24 02:29:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 624.22 Mbit/s
95th percentile per-packet one-way delay: 113.149 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 624.22 Mbit/s
95th percentile per-packet one-way delay: 113.149 ms
Loss rate: 0.63%

Run 2: Report of Muses_DecisionTree — Data Link

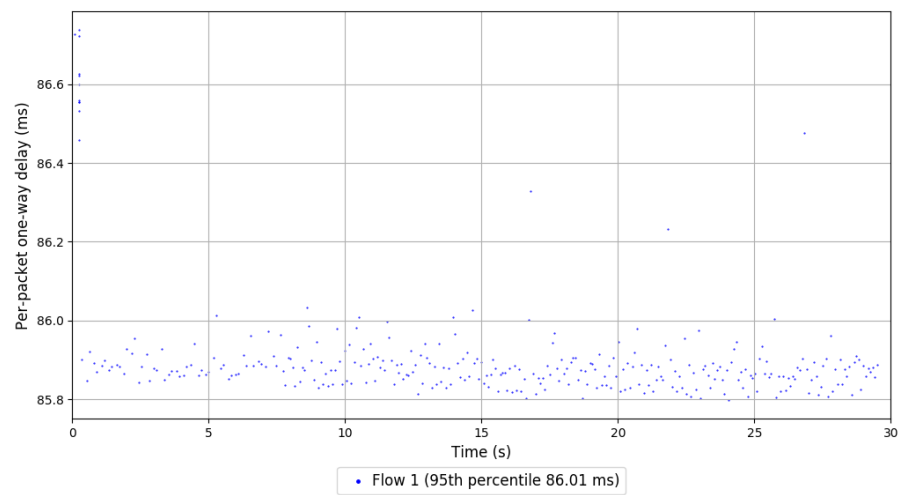
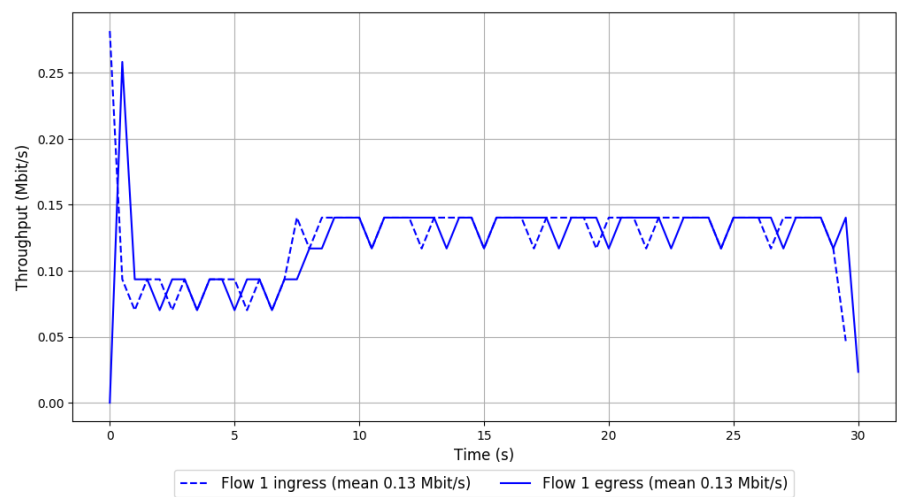


Run 3: Statistics of Muses_DecisionTree

Start at: 2019-11-23 23:38:46
End at: 2019-11-23 23:39:16
Local clock offset: 11.229 ms
Remote clock offset: 11.514 ms

Below is generated by plot.py at 2019-11-24 02:29:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 86.013 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 86.013 ms
Loss rate: 0.63%

Run 3: Report of Muses_DecisionTree — Data Link



Run 4: Statistics of Muses_DecisionTree

Start at: 2019-11-24 00:13:43

End at: 2019-11-24 00:14:13

Local clock offset: 5.397 ms

Remote clock offset: 5.625 ms

Below is generated by plot.py at 2019-11-24 02:29:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 500.08 Mbit/s

95th percentile per-packet one-way delay: 136.008 ms

Loss rate: 0.82%

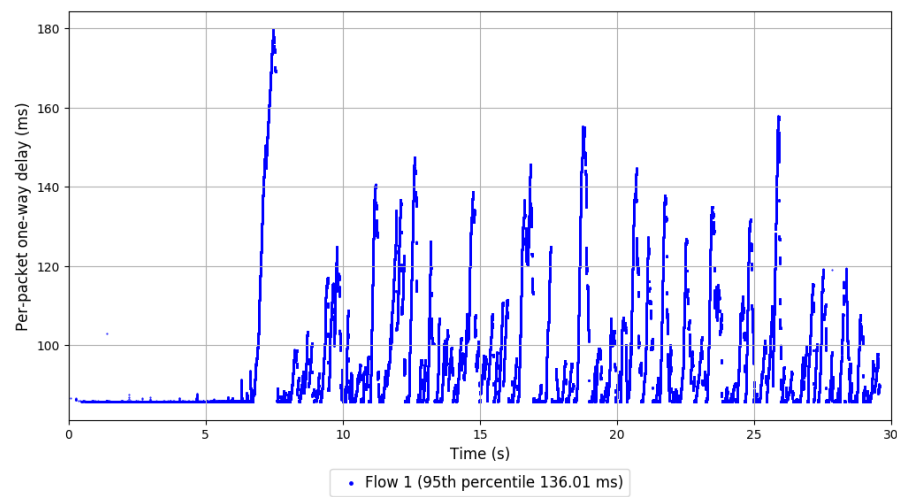
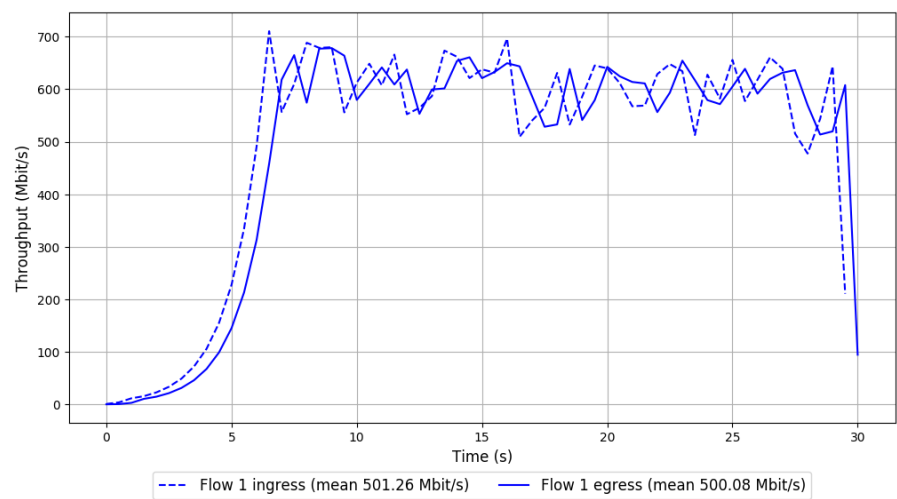
-- Flow 1:

Average throughput: 500.08 Mbit/s

95th percentile per-packet one-way delay: 136.008 ms

Loss rate: 0.82%

Run 4: Report of Muses_DecisionTree — Data Link



Run 5: Statistics of Muses_DecisionTree

Start at: 2019-11-24 00:48:50

End at: 2019-11-24 00:49:20

Local clock offset: 1.504 ms

Remote clock offset: 1.356 ms

Below is generated by plot.py at 2019-11-24 02:29:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 506.50 Mbit/s

95th percentile per-packet one-way delay: 126.026 ms

Loss rate: 0.76%

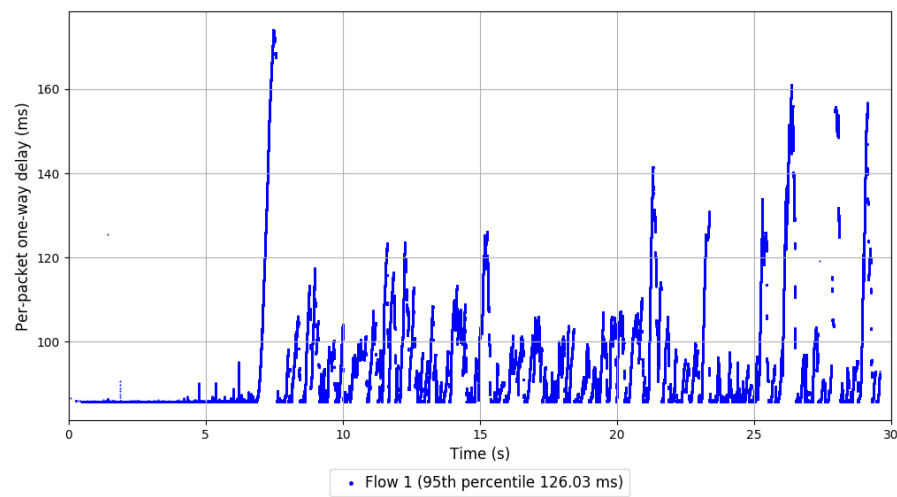
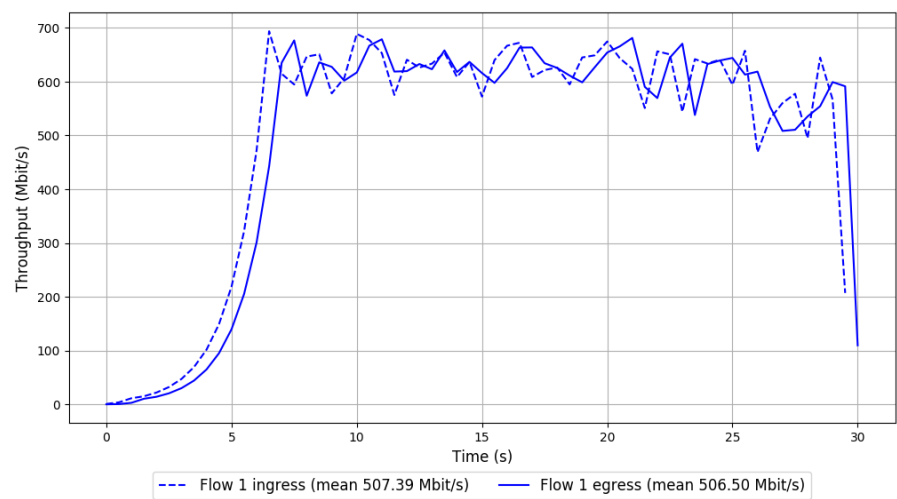
-- Flow 1:

Average throughput: 506.50 Mbit/s

95th percentile per-packet one-way delay: 126.026 ms

Loss rate: 0.76%

Run 5: Report of Muses_DecisionTree — Data Link

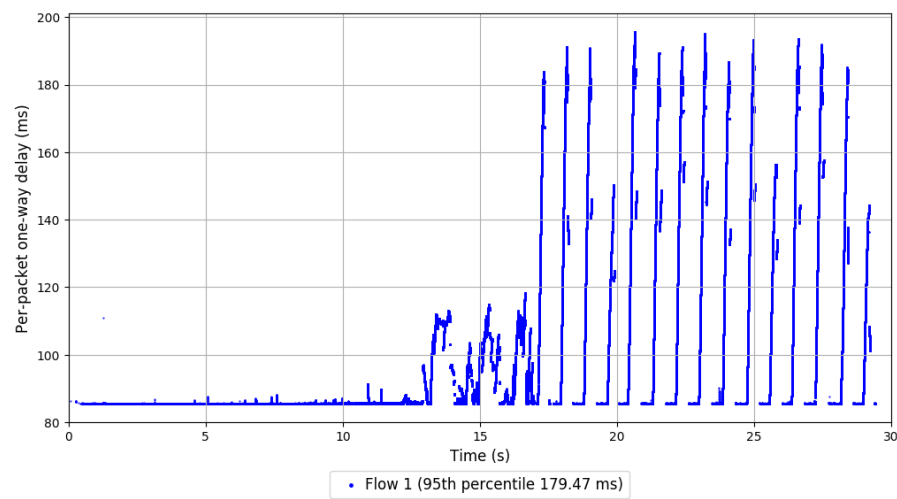
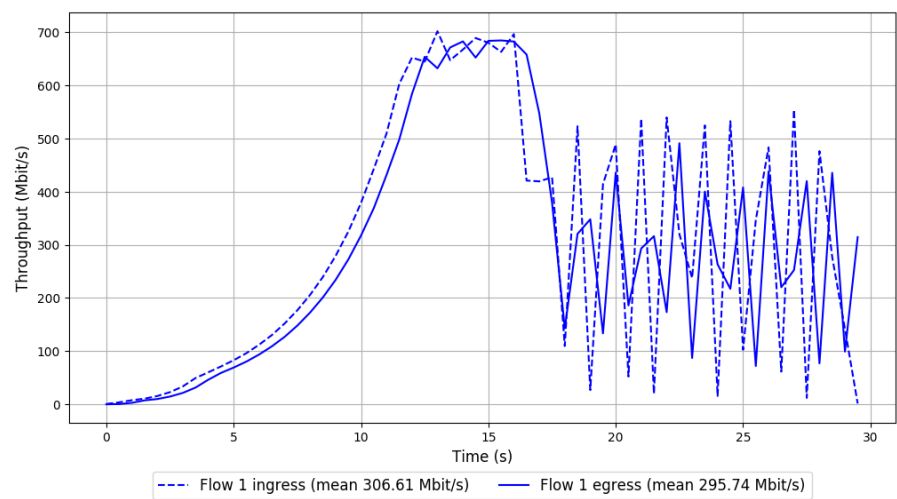



```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-11-23 22:37:30
End at: 2019-11-23 22:38:00
Local clock offset: 13.459 ms
Remote clock offset: 13.72 ms

# Below is generated by plot.py at 2019-11-24 02:29:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 295.74 Mbit/s
95th percentile per-packet one-way delay: 179.471 ms
Loss rate: 4.11%
-- Flow 1:
Average throughput: 295.74 Mbit/s
95th percentile per-packet one-way delay: 179.471 ms
Loss rate: 4.11%
```

Run 1: Report of Muses_DecisionTreeH0 — Data Link

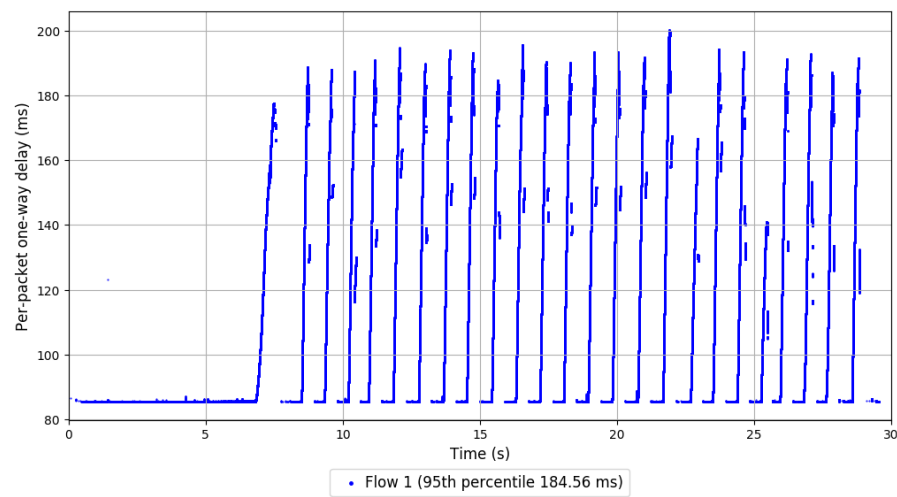
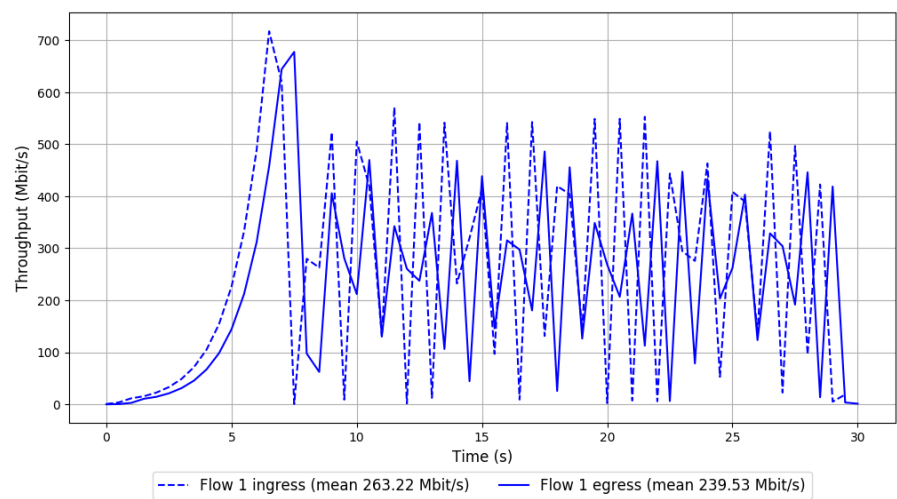


Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-11-23 23:12:57
End at: 2019-11-23 23:13:27
Local clock offset: 25.724 ms
Remote clock offset: 26.172 ms

Below is generated by plot.py at 2019-11-24 02:29:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 239.53 Mbit/s
95th percentile per-packet one-way delay: 184.560 ms
Loss rate: 9.53%
-- Flow 1:
Average throughput: 239.53 Mbit/s
95th percentile per-packet one-way delay: 184.560 ms
Loss rate: 9.53%

Run 2: Report of Muses_DecisionTreeH0 — Data Link

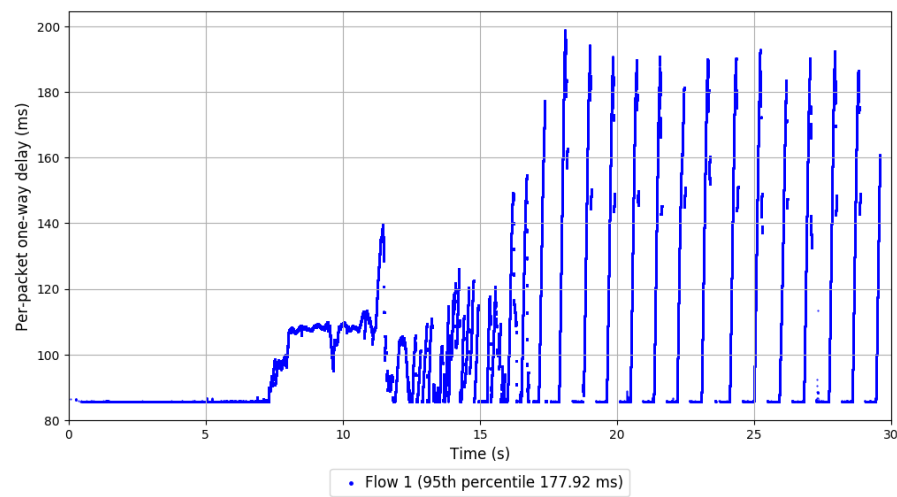
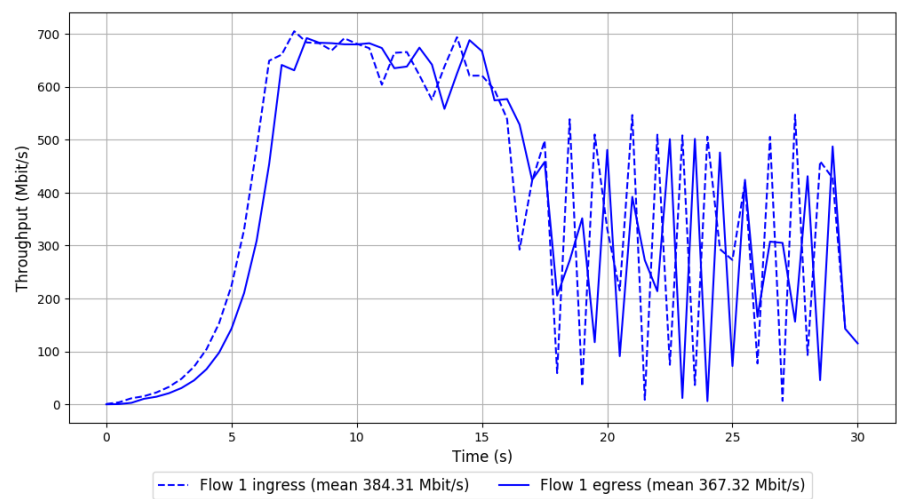


Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-11-23 23:47:33
End at: 2019-11-23 23:48:03
Local clock offset: 13.337 ms
Remote clock offset: 13.701 ms

Below is generated by plot.py at 2019-11-24 02:32:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 367.32 Mbit/s
95th percentile per-packet one-way delay: 177.923 ms
Loss rate: 4.78%
-- Flow 1:
Average throughput: 367.32 Mbit/s
95th percentile per-packet one-way delay: 177.923 ms
Loss rate: 4.78%

Run 3: Report of Muses_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-11-24 00:22:28

End at: 2019-11-24 00:22:58

Local clock offset: 6.444 ms

Remote clock offset: 6.696 ms

Below is generated by plot.py at 2019-11-24 02:33:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 362.98 Mbit/s

95th percentile per-packet one-way delay: 182.001 ms

Loss rate: 6.78%

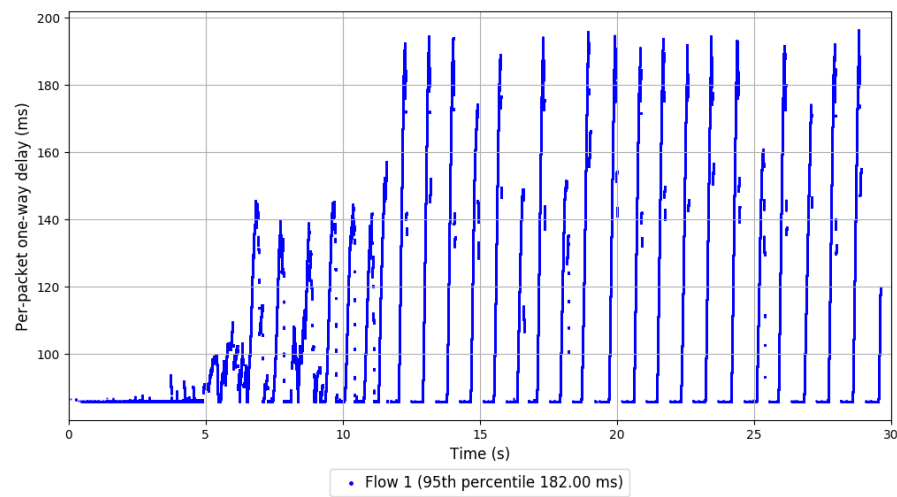
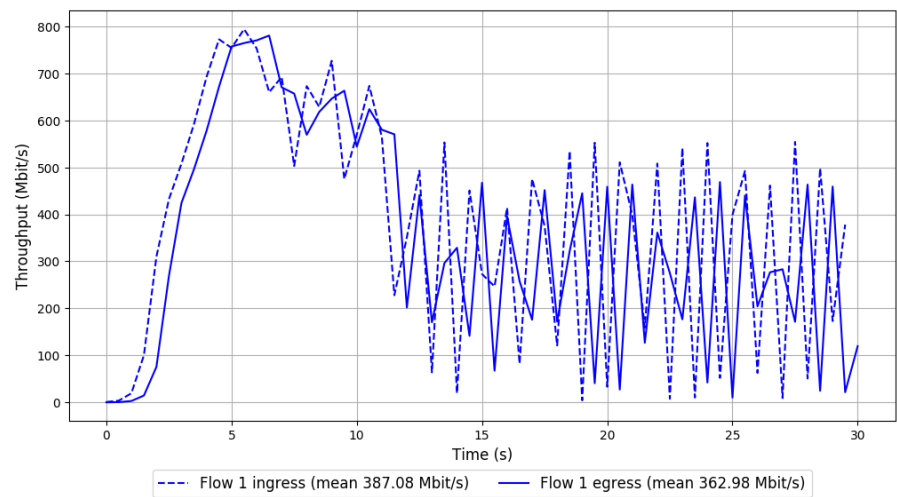
-- Flow 1:

Average throughput: 362.98 Mbit/s

95th percentile per-packet one-way delay: 182.001 ms

Loss rate: 6.78%

Run 4: Report of Muses_DecisionTreeH0 — Data Link



Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-11-24 00:58:07

End at: 2019-11-24 00:58:37

Local clock offset: 1.579 ms

Remote clock offset: 1.425 ms

Below is generated by plot.py at 2019-11-24 02:33:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 364.38 Mbit/s

95th percentile per-packet one-way delay: 182.882 ms

Loss rate: 4.97%

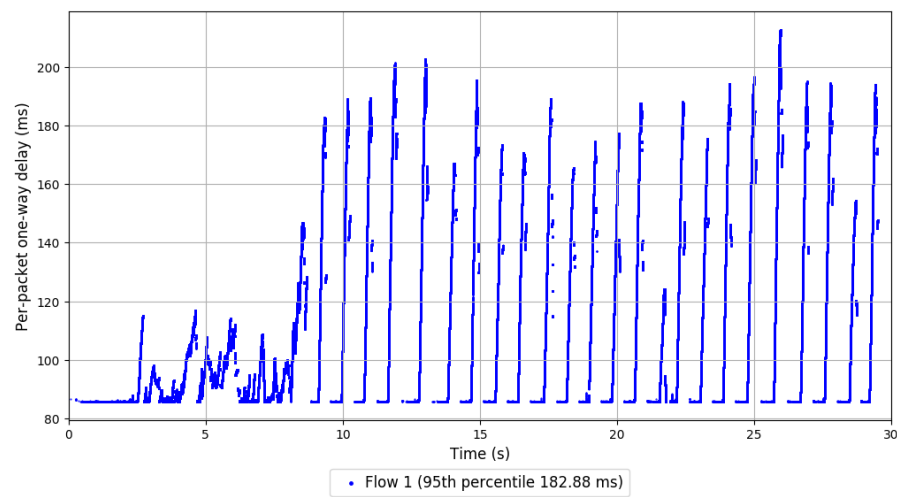
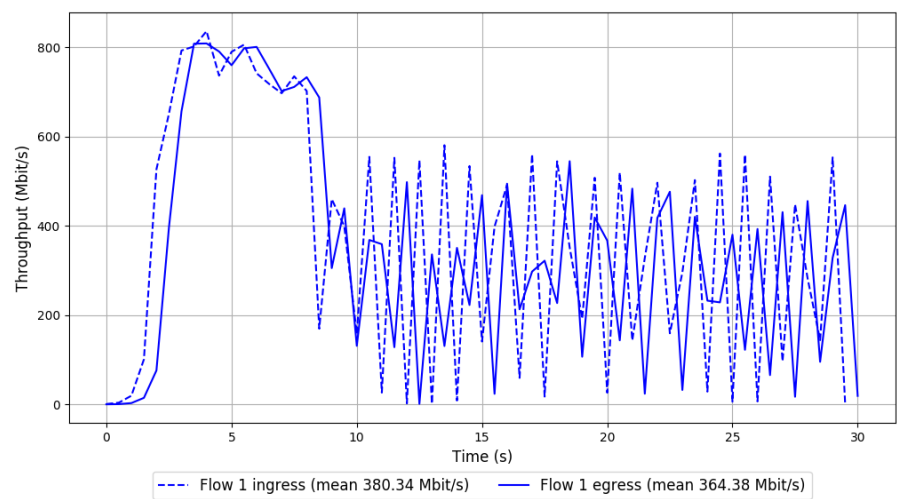
-- Flow 1:

Average throughput: 364.38 Mbit/s

95th percentile per-packet one-way delay: 182.882 ms

Loss rate: 4.97%

Run 5: Report of Muses_DecisionTreeH0 — Data Link

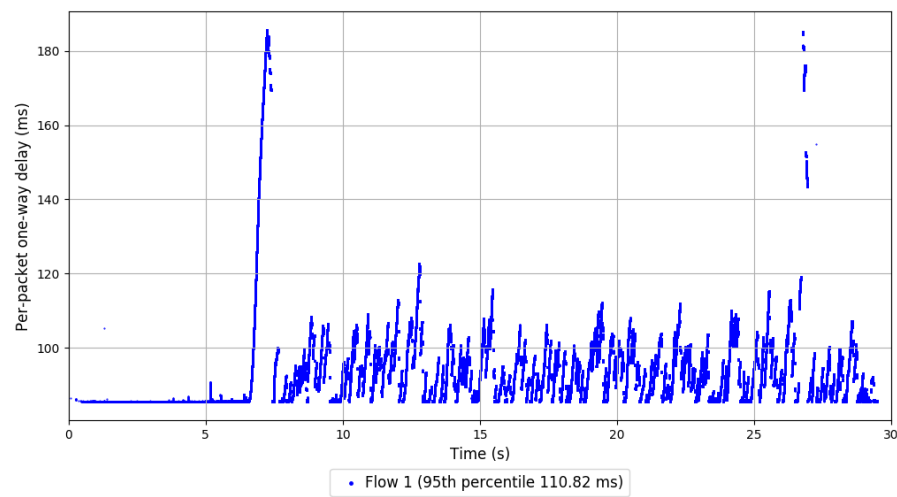
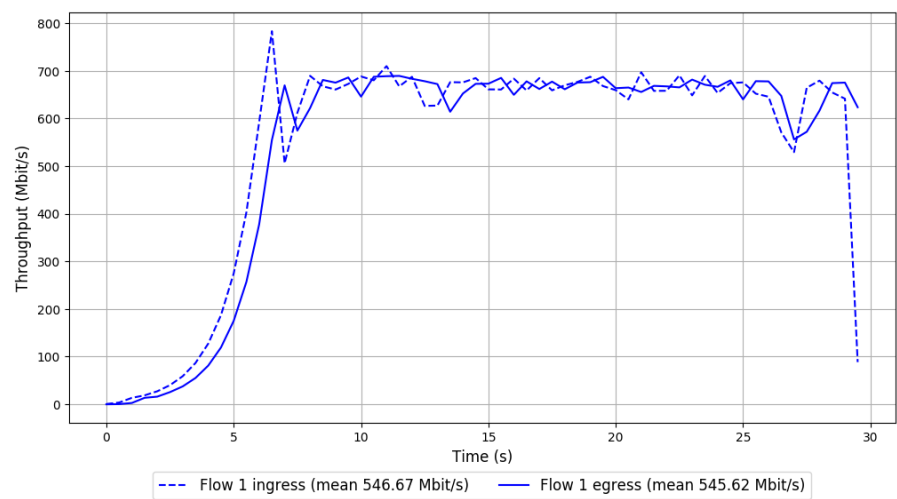


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-11-23 22:35:55
End at: 2019-11-23 22:36:25
Local clock offset: 12.098 ms
Remote clock offset: 12.327 ms

# Below is generated by plot.py at 2019-11-24 02:37:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 545.62 Mbit/s
95th percentile per-packet one-way delay: 110.819 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 545.62 Mbit/s
95th percentile per-packet one-way delay: 110.819 ms
Loss rate: 0.78%
```

Run 1: Report of Muses_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses_DecisionTreeR0

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

End at: 2019-11-23 23:11:50

Local clock offset: 24.493 ms

Remote clock offset: 24.85 ms

Below is generated by plot.py at 2019-11-24 02:38:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 557.22 Mbit/s

95th percentile per-packet one-way delay: 109.055 ms

Loss rate: 0.71%

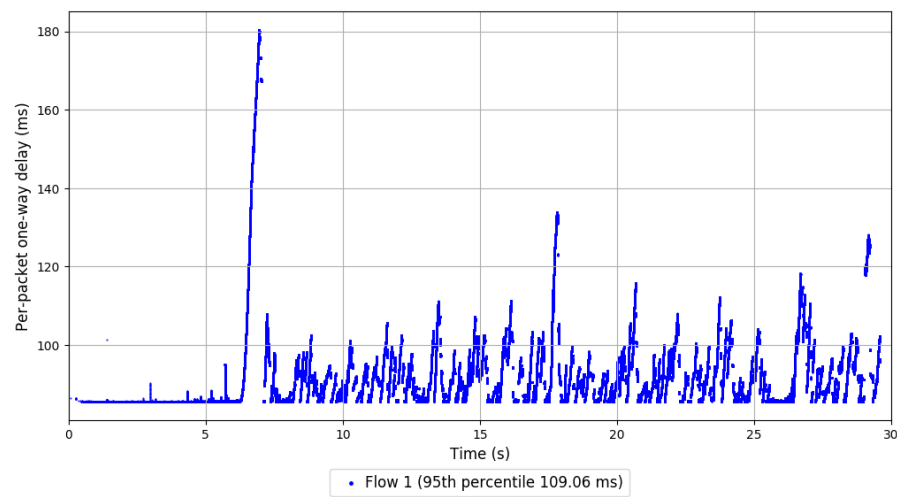
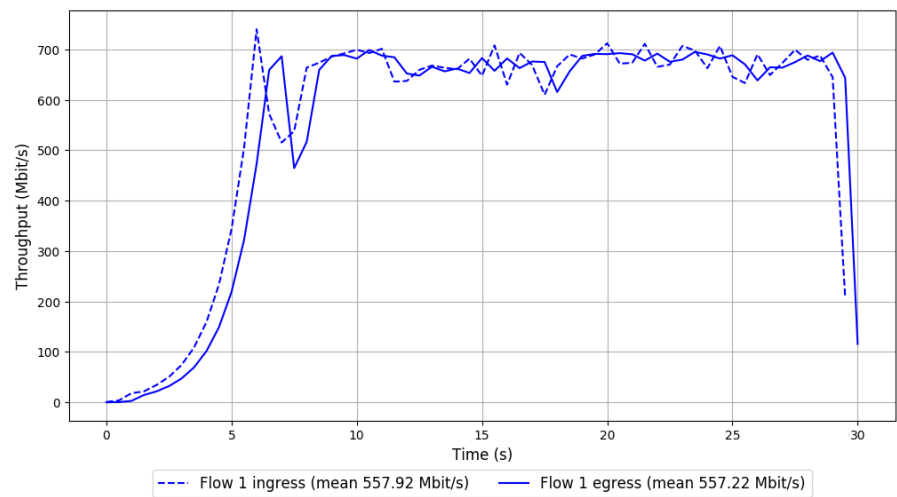
-- Flow 1:

Average throughput: 557.22 Mbit/s

95th percentile per-packet one-way delay: 109.055 ms

Loss rate: 0.71%

Run 2: Report of Muses_DecisionTreeR0 — Data Link

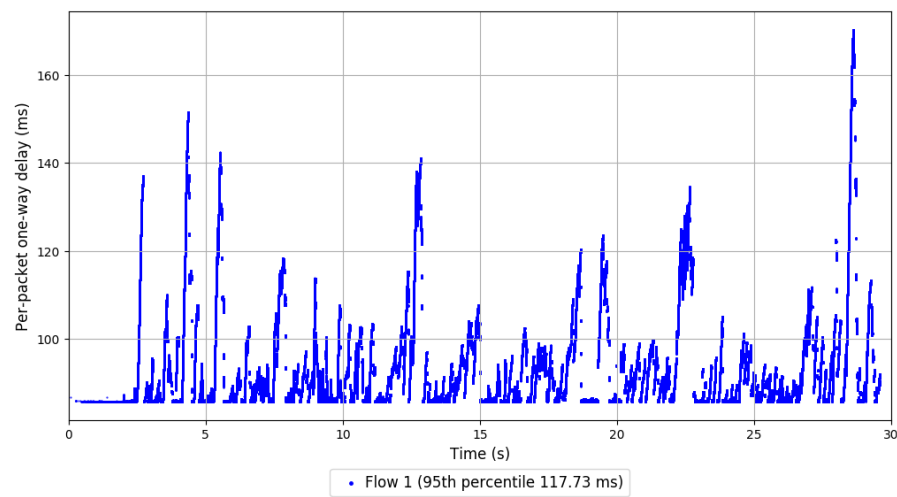
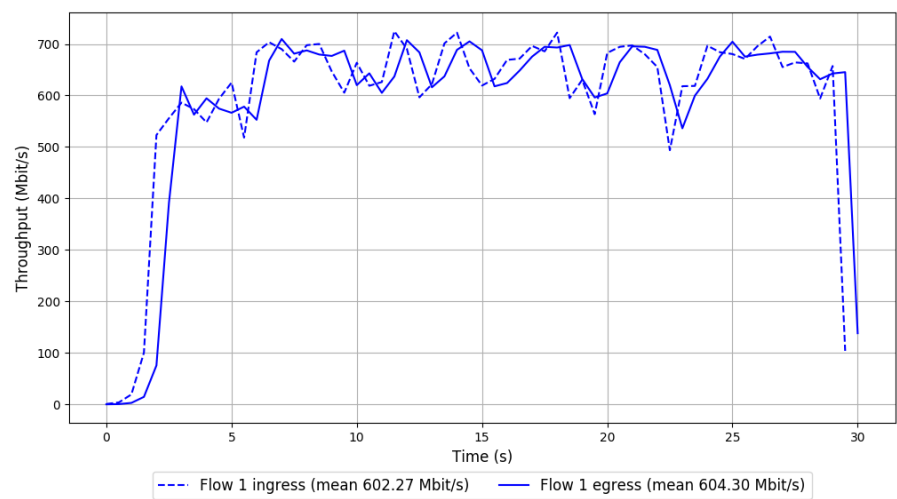


Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-11-23 23:45:54
End at: 2019-11-23 23:46:24
Local clock offset: 12.821 ms
Remote clock offset: 13.117 ms

Below is generated by plot.py at 2019-11-24 02:39:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 604.30 Mbit/s
95th percentile per-packet one-way delay: 117.730 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 604.30 Mbit/s
95th percentile per-packet one-way delay: 117.730 ms
Loss rate: 0.27%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-11-24 00:21:19

End at: 2019-11-24 00:21:49

Local clock offset: 6.277 ms

Remote clock offset: 6.523 ms

Below is generated by plot.py at 2019-11-24 02:39:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.76 Mbit/s

95th percentile per-packet one-way delay: 85.944 ms

Loss rate: 0.62%

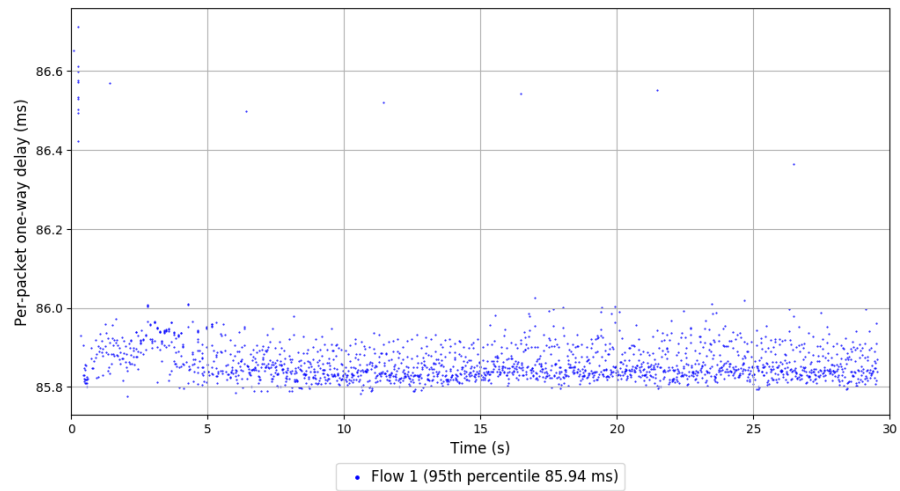
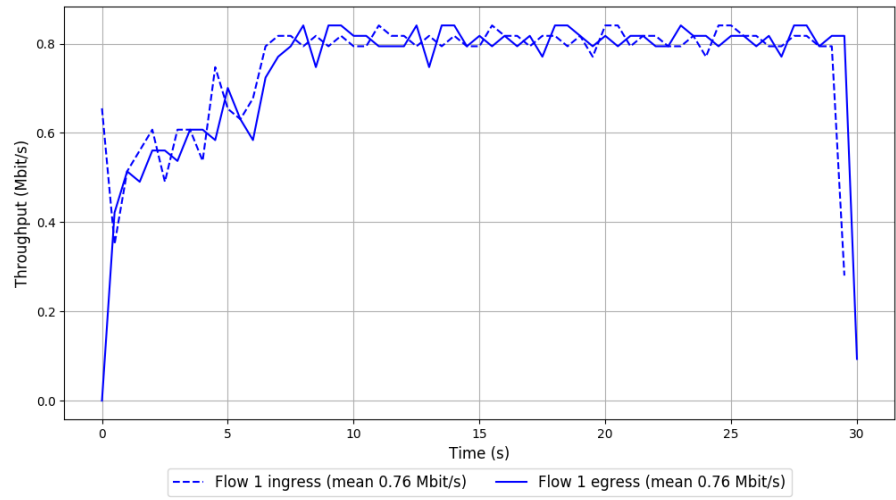
-- Flow 1:

Average throughput: 0.76 Mbit/s

95th percentile per-packet one-way delay: 85.944 ms

Loss rate: 0.62%

Run 4: Report of Muses_DecisionTreeR0 — Data Link

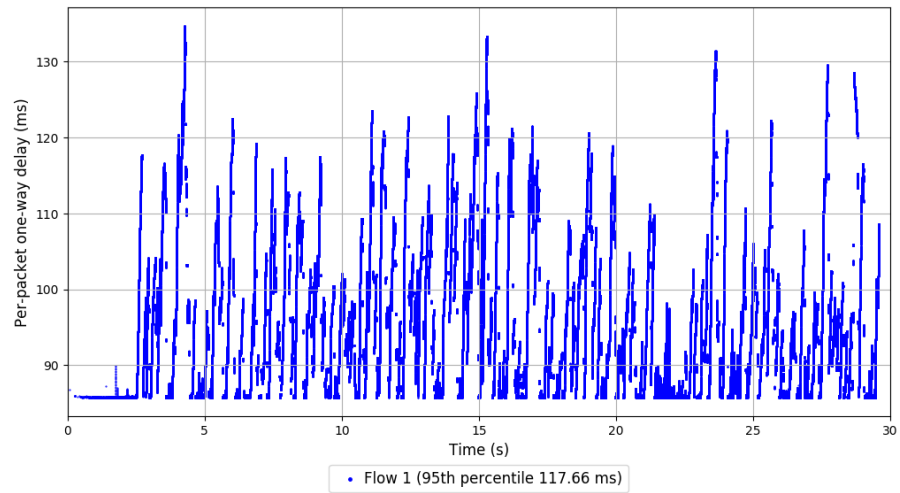
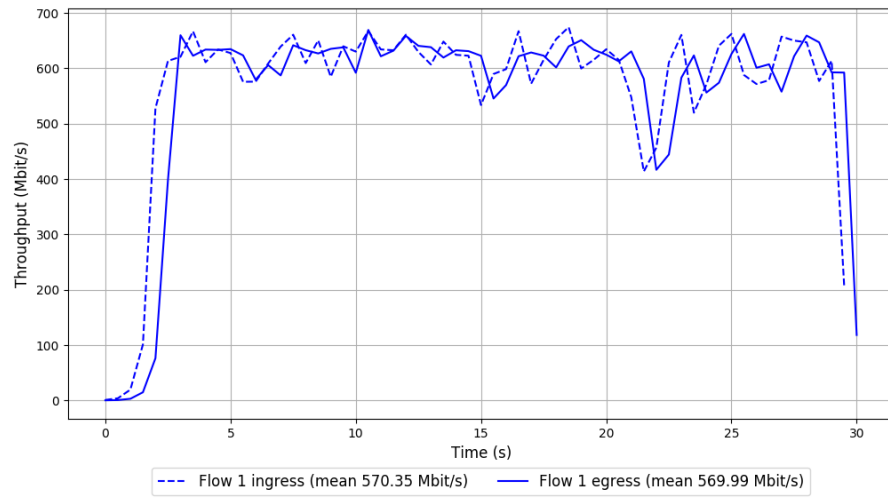


```
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2019-11-24 00:56:29
End at: 2019-11-24 00:56:59
Local clock offset: 1.534 ms
Remote clock offset: 1.409 ms

# Below is generated by plot.py at 2019-11-24 02:39:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 569.99 Mbit/s
95th percentile per-packet one-way delay: 117.661 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 569.99 Mbit/s
95th percentile per-packet one-way delay: 117.661 ms
Loss rate: 0.65%
```

Run 5: Report of Muses_DecisionTreeR0 — Data Link

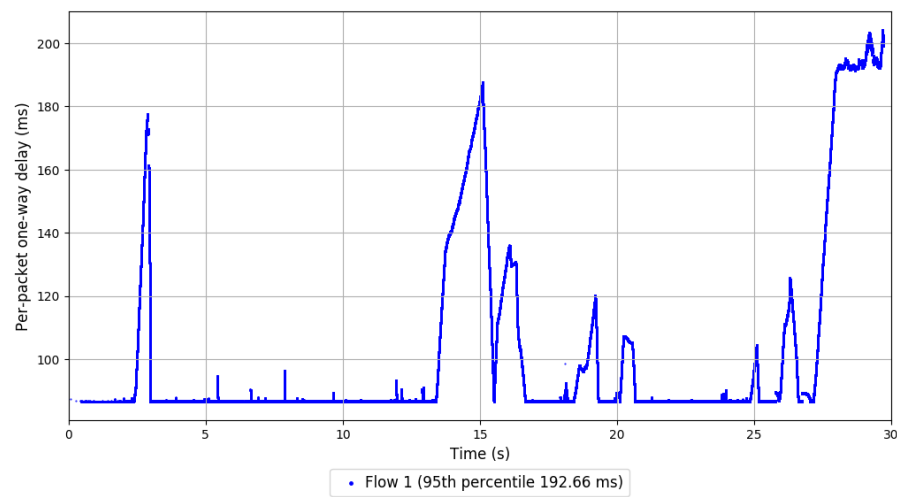
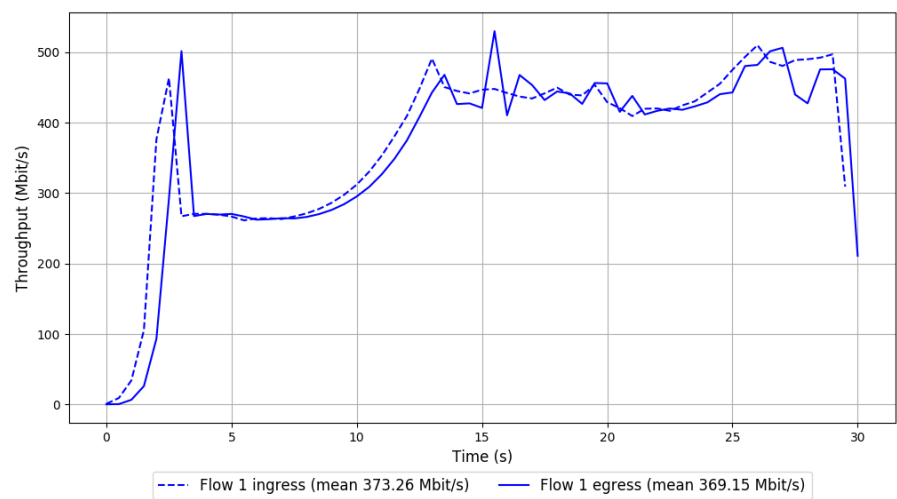


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-11-23 22:26:32
End at: 2019-11-23 22:27:02
Local clock offset: 13.203 ms
Remote clock offset: 12.707 ms

# Below is generated by plot.py at 2019-11-24 02:41:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 369.15 Mbit/s
95th percentile per-packet one-way delay: 192.661 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 369.15 Mbit/s
95th percentile per-packet one-way delay: 192.661 ms
Loss rate: 1.67%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-11-23 23:02:12

End at: 2019-11-23 23:02:42

Local clock offset: 18.086 ms

Remote clock offset: 18.306 ms

Below is generated by plot.py at 2019-11-24 02:45:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 364.05 Mbit/s

95th percentile per-packet one-way delay: 210.315 ms

Loss rate: 4.61%

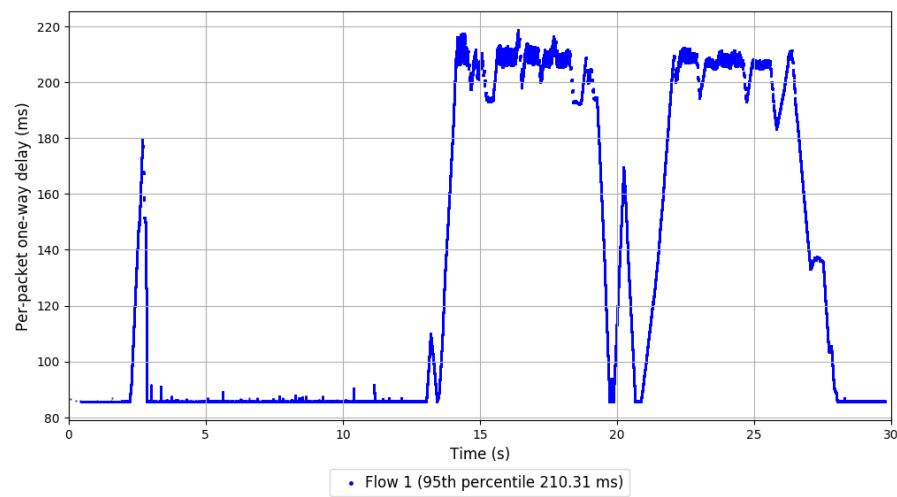
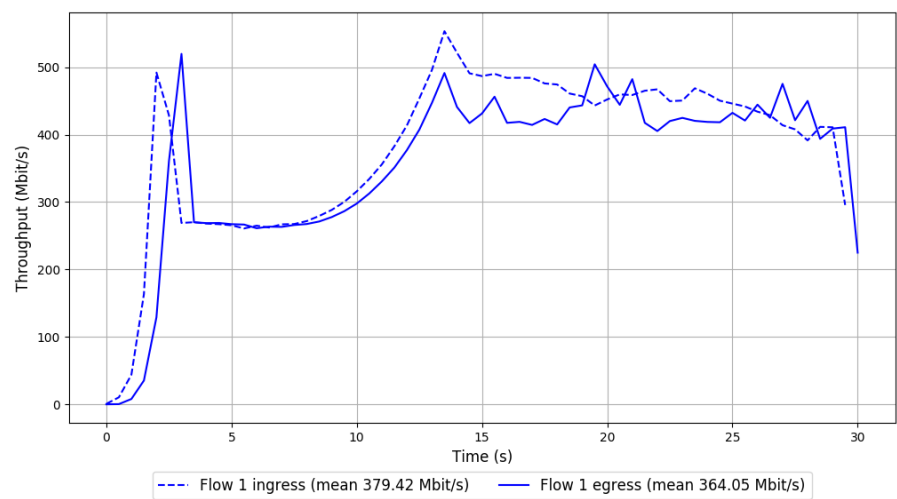
-- Flow 1:

Average throughput: 364.05 Mbit/s

95th percentile per-packet one-way delay: 210.315 ms

Loss rate: 4.61%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-11-23 23:37:13

End at: 2019-11-23 23:37:43

Local clock offset: 11.064 ms

Remote clock offset: 11.352 ms

Below is generated by plot.py at 2019-11-24 02:45:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 360.19 Mbit/s

95th percentile per-packet one-way delay: 132.593 ms

Loss rate: 0.76%

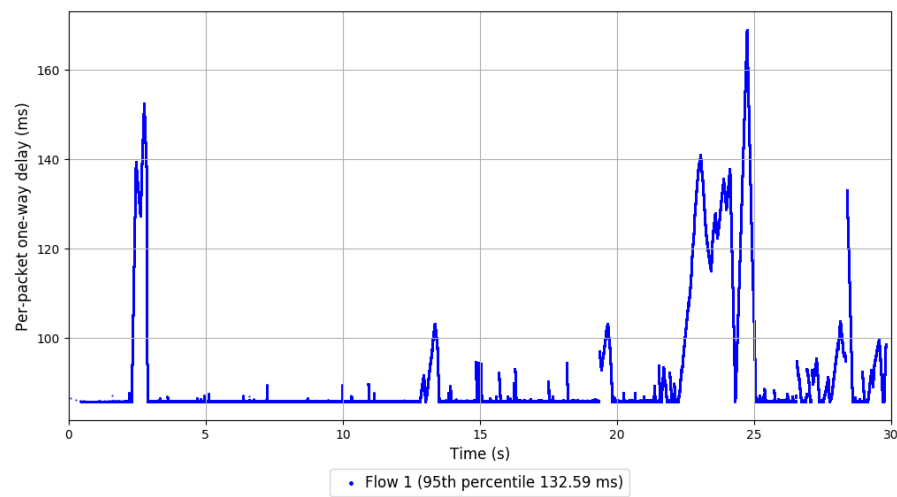
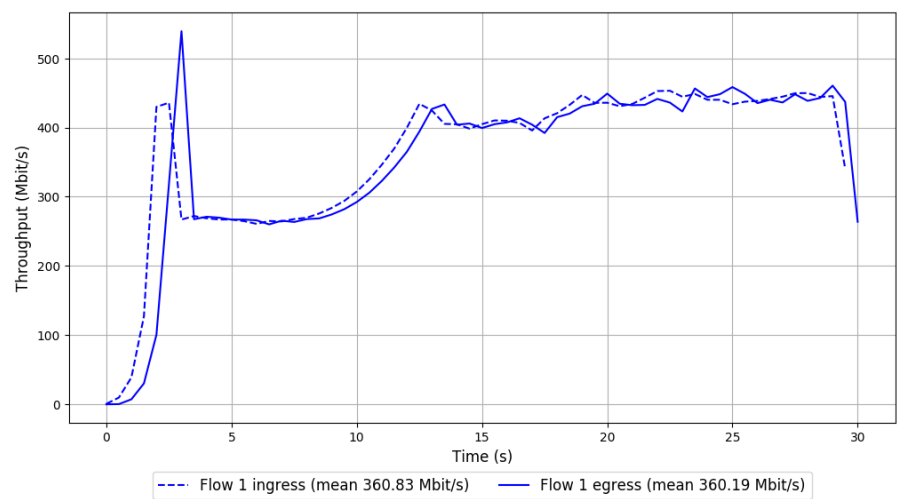
-- Flow 1:

Average throughput: 360.19 Mbit/s

95th percentile per-packet one-way delay: 132.593 ms

Loss rate: 0.76%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-11-24 00:12:03

End at: 2019-11-24 00:12:33

Local clock offset: 5.299 ms

Remote clock offset: 5.545 ms

Below is generated by plot.py at 2019-11-24 02:49:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 453.77 Mbit/s

95th percentile per-packet one-way delay: 212.252 ms

Loss rate: 4.21%

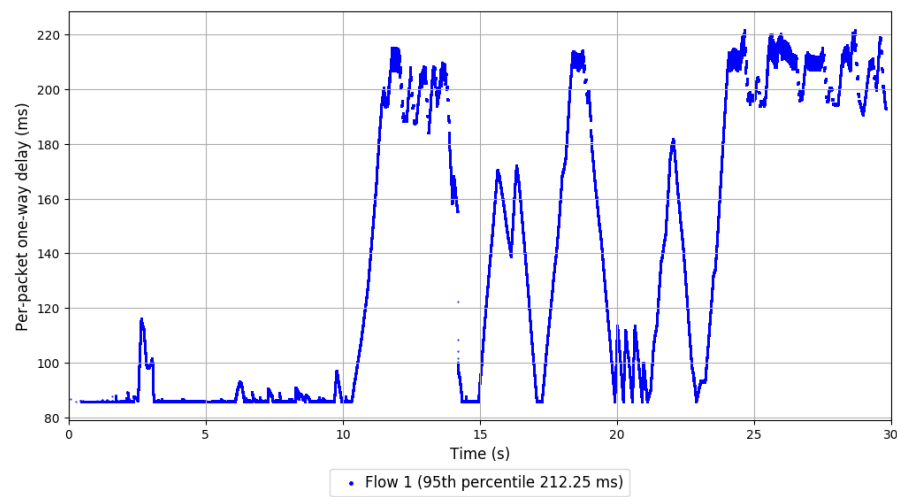
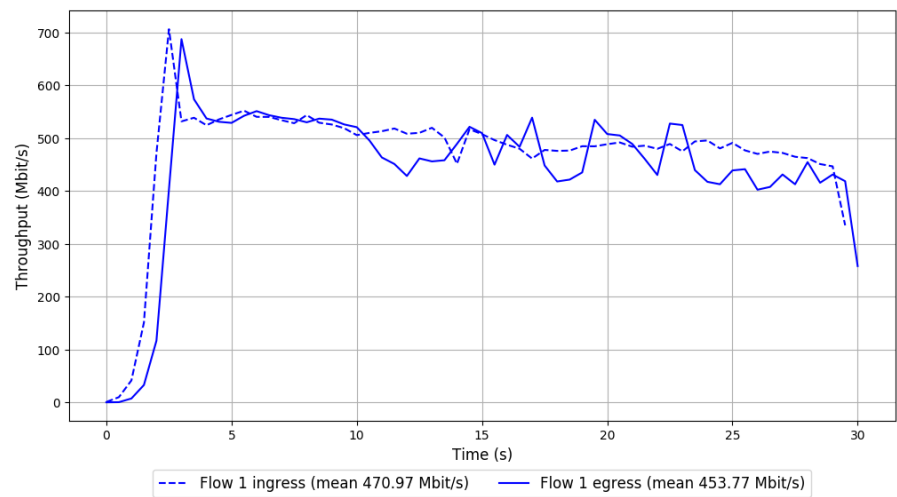
-- Flow 1:

Average throughput: 453.77 Mbit/s

95th percentile per-packet one-way delay: 212.252 ms

Loss rate: 4.21%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-11-24 00:47:11

End at: 2019-11-24 00:47:41

Local clock offset: 1.471 ms

Remote clock offset: 1.38 ms

Below is generated by plot.py at 2019-11-24 02:52:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 447.29 Mbit/s

95th percentile per-packet one-way delay: 200.966 ms

Loss rate: 2.27%

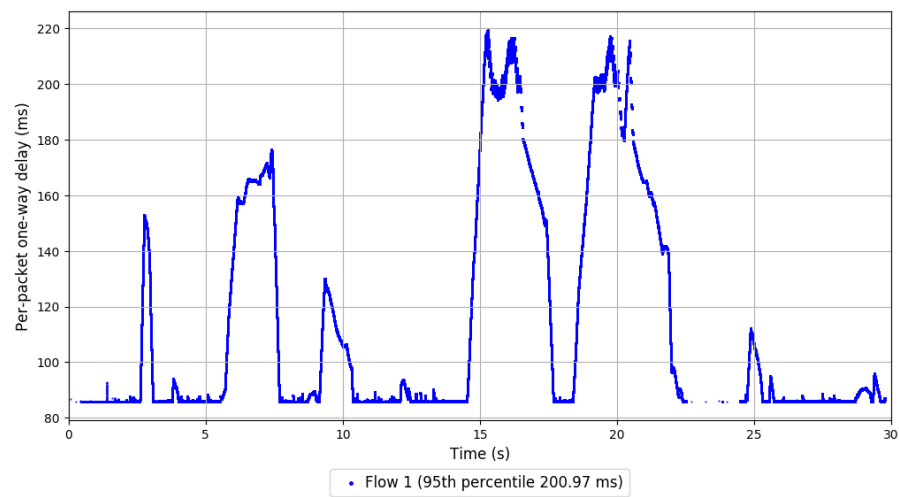
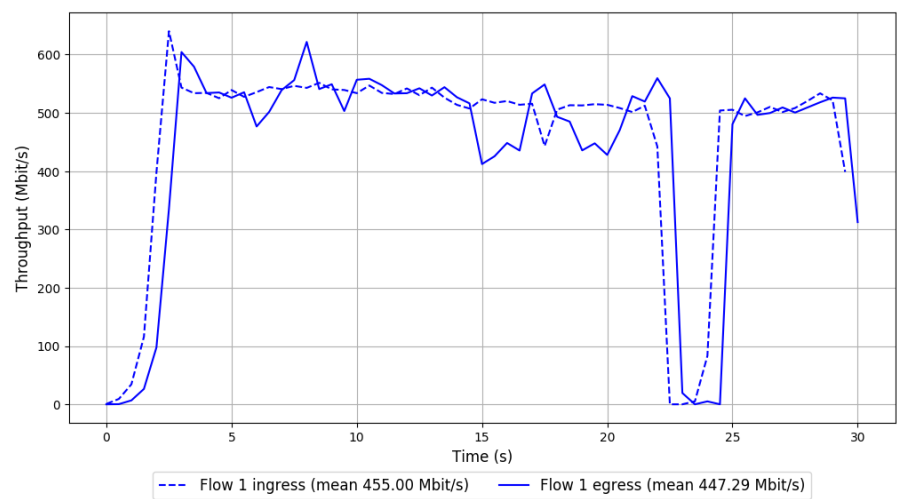
-- Flow 1:

Average throughput: 447.29 Mbit/s

95th percentile per-packet one-way delay: 200.966 ms

Loss rate: 2.27%

Run 5: Report of PCC-Allegro — Data Link

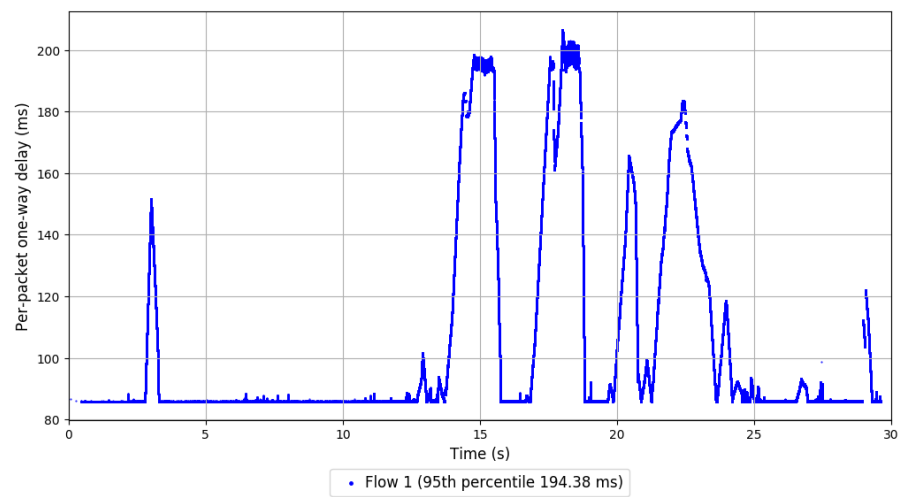
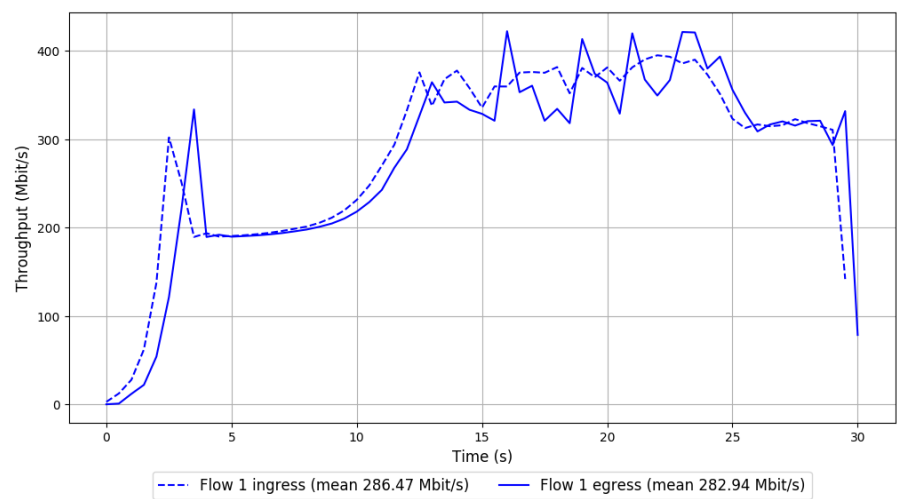


```
Run 1: Statistics of PCC-Expr

Start at: 2019-11-23 22:22:10
End at: 2019-11-23 22:22:40
Local clock offset: 7.953 ms
Remote clock offset: 7.738 ms

# Below is generated by plot.py at 2019-11-24 02:52:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 282.94 Mbit/s
95th percentile per-packet one-way delay: 194.384 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 282.94 Mbit/s
95th percentile per-packet one-way delay: 194.384 ms
Loss rate: 1.81%
```

Run 1: Report of PCC-Expr — Data Link

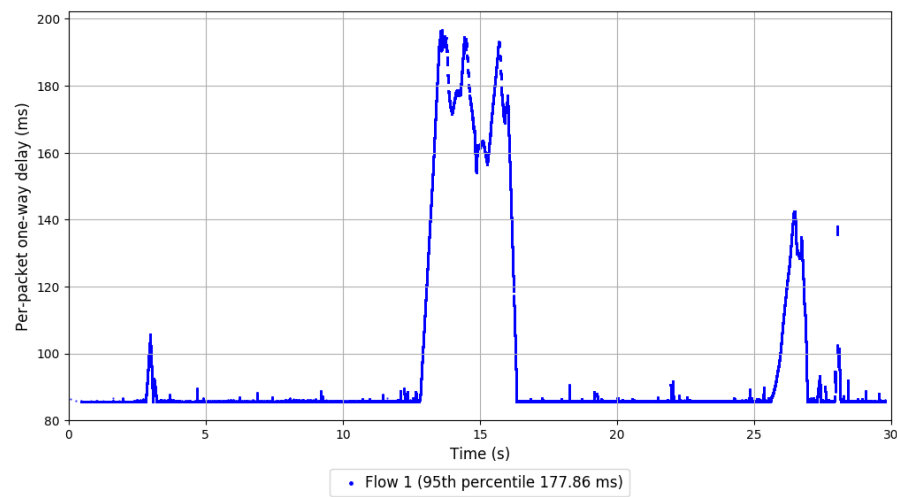
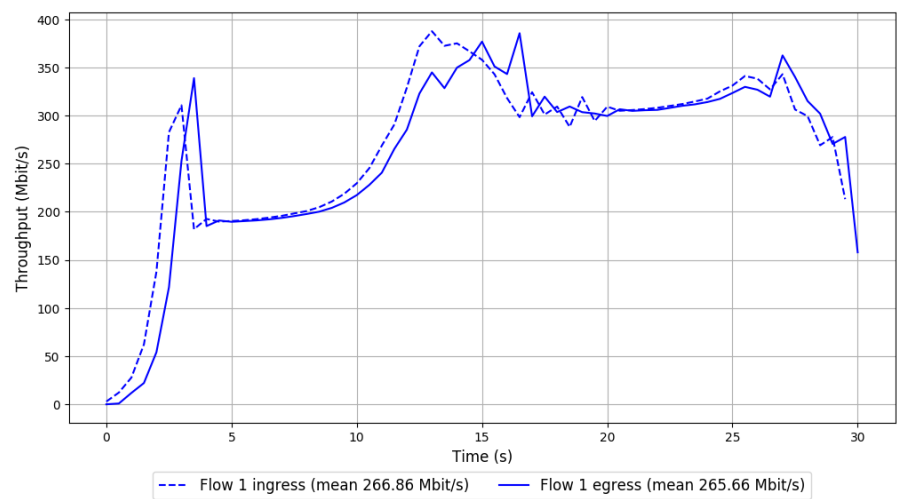


Run 2: Statistics of PCC-Expr

Start at: 2019-11-23 22:57:50
End at: 2019-11-23 22:58:20
Local clock offset: 15.917 ms
Remote clock offset: 16.166 ms

Below is generated by plot.py at 2019-11-24 02:52:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 265.66 Mbit/s
95th percentile per-packet one-way delay: 177.858 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 265.66 Mbit/s
95th percentile per-packet one-way delay: 177.858 ms
Loss rate: 1.02%

Run 2: Report of PCC-Expr — Data Link

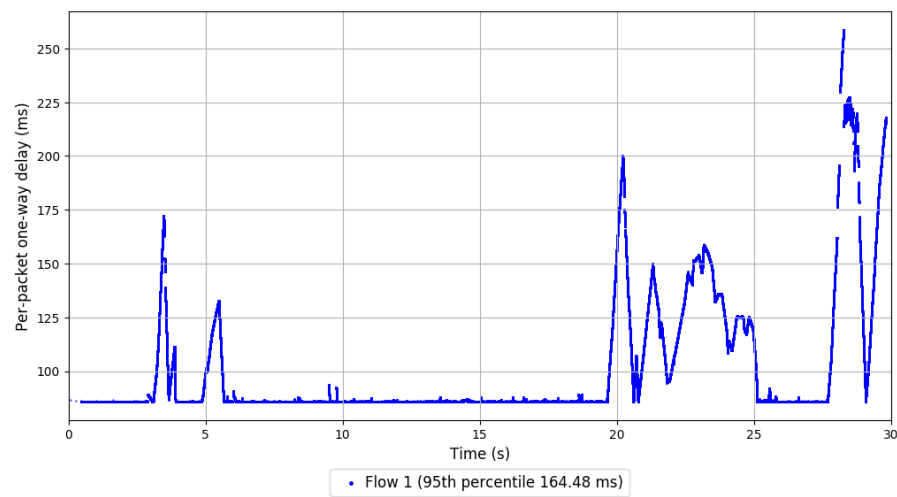
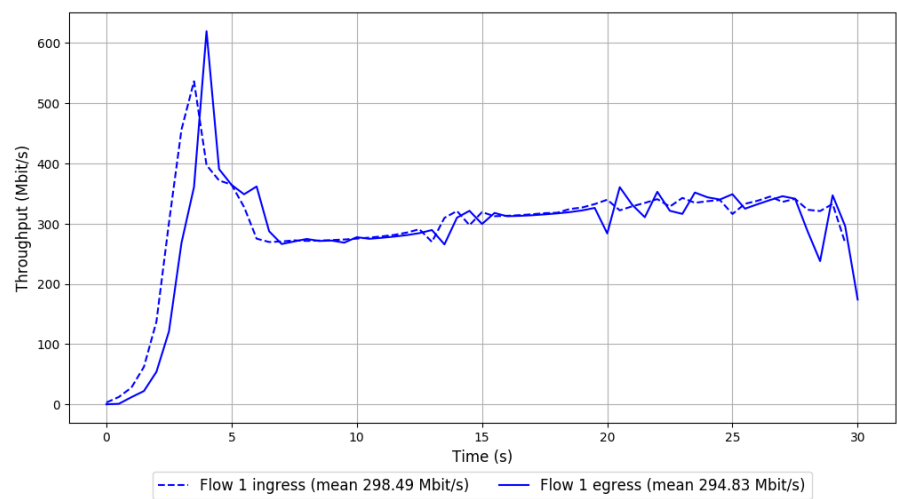


Run 3: Statistics of PCC-Expr

Start at: 2019-11-23 23:32:50
End at: 2019-11-23 23:33:20
Local clock offset: 11.3 ms
Remote clock offset: 11.485 ms

Below is generated by plot.py at 2019-11-24 02:52:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 294.83 Mbit/s
95th percentile per-packet one-way delay: 164.477 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 294.83 Mbit/s
95th percentile per-packet one-way delay: 164.477 ms
Loss rate: 1.80%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-11-24 00:07:43

End at: 2019-11-24 00:08:13

Local clock offset: 5.364 ms

Remote clock offset: 5.561 ms

Below is generated by plot.py at 2019-11-24 02:52:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 254.62 Mbit/s

95th percentile per-packet one-way delay: 150.126 ms

Loss rate: 0.68%

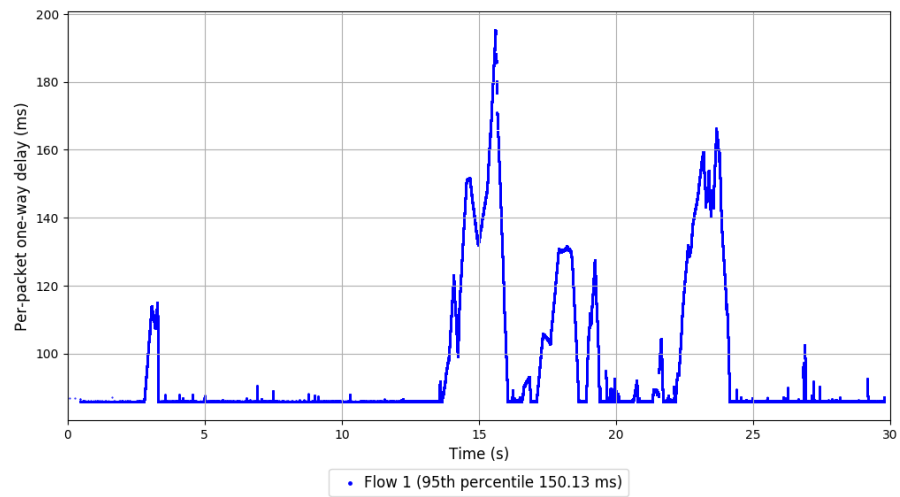
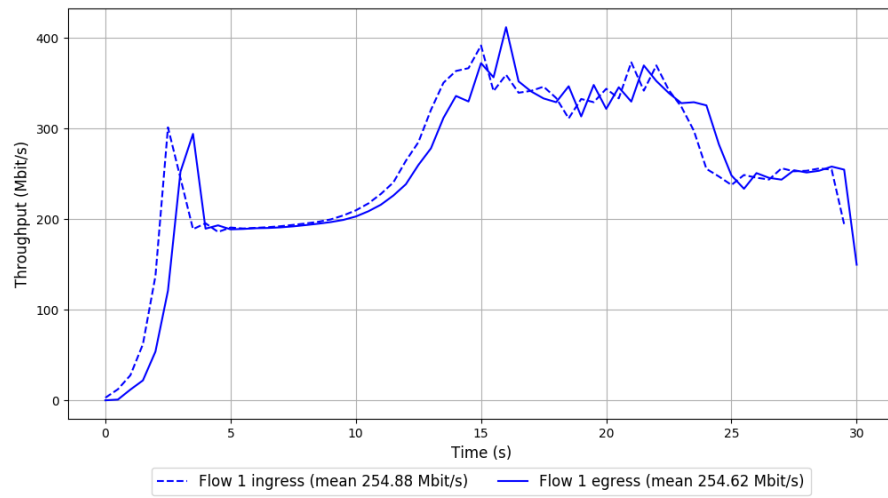
-- Flow 1:

Average throughput: 254.62 Mbit/s

95th percentile per-packet one-way delay: 150.126 ms

Loss rate: 0.68%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-11-24 00:42:50

End at: 2019-11-24 00:43:20

Local clock offset: 1.688 ms

Remote clock offset: 1.617 ms

Below is generated by plot.py at 2019-11-24 02:54:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 265.71 Mbit/s

95th percentile per-packet one-way delay: 154.969 ms

Loss rate: 0.67%

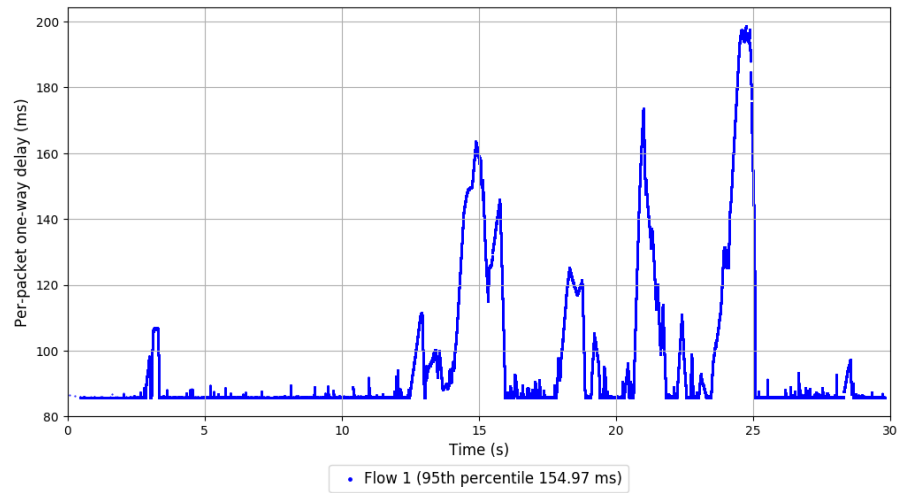
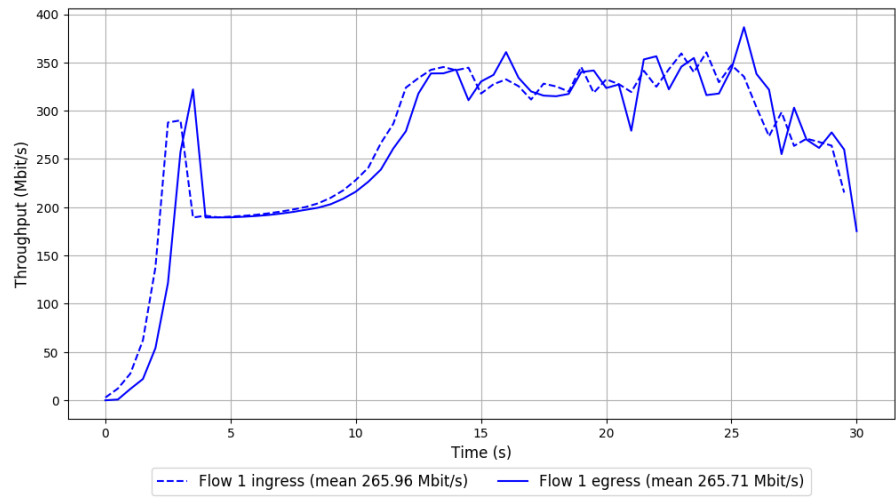
-- Flow 1:

Average throughput: 265.71 Mbit/s

95th percentile per-packet one-way delay: 154.969 ms

Loss rate: 0.67%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

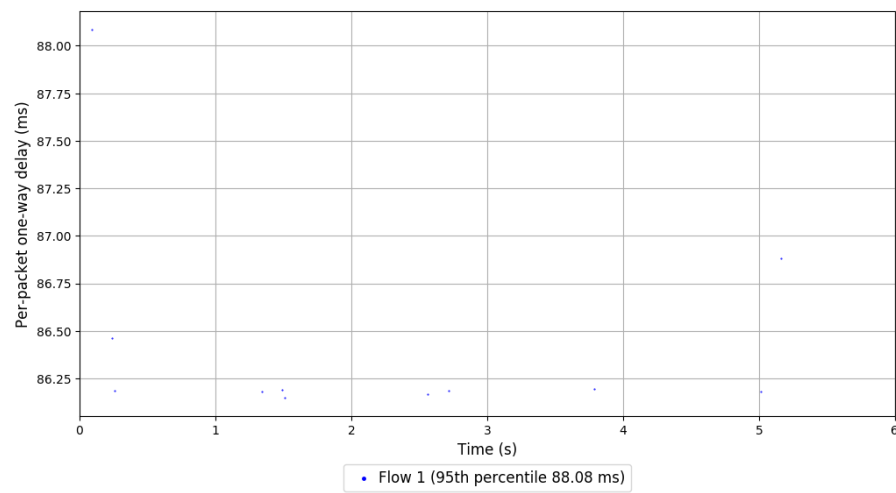
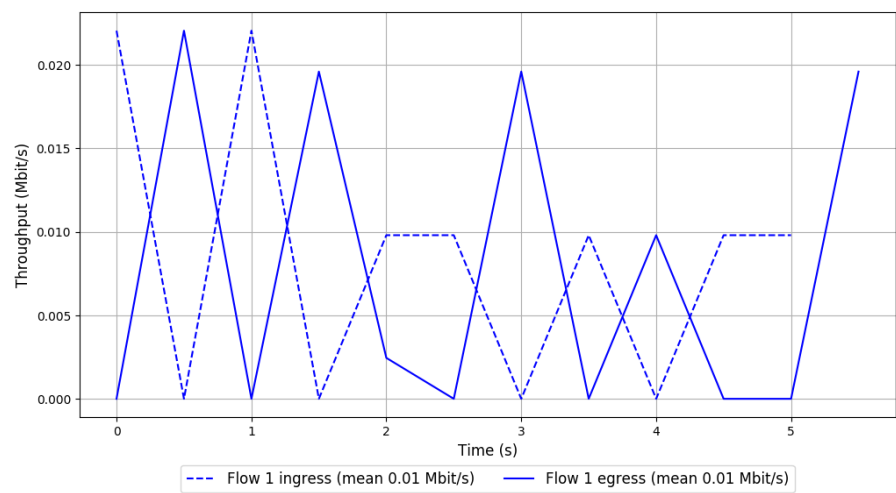
Start at: 2019-11-23 22:43:25

End at: 2019-11-23 22:43:55

Local clock offset: 19.57 ms

Remote clock offset: 19.762 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-11-23 23:18:35

End at: 2019-11-23 23:19:05

Local clock offset: 26.807 ms

Remote clock offset: 27.021 ms

Below is generated by plot.py at 2019-11-24 02:54:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.29 Mbit/s

95th percentile per-packet one-way delay: 86.316 ms

Loss rate: 0.00%

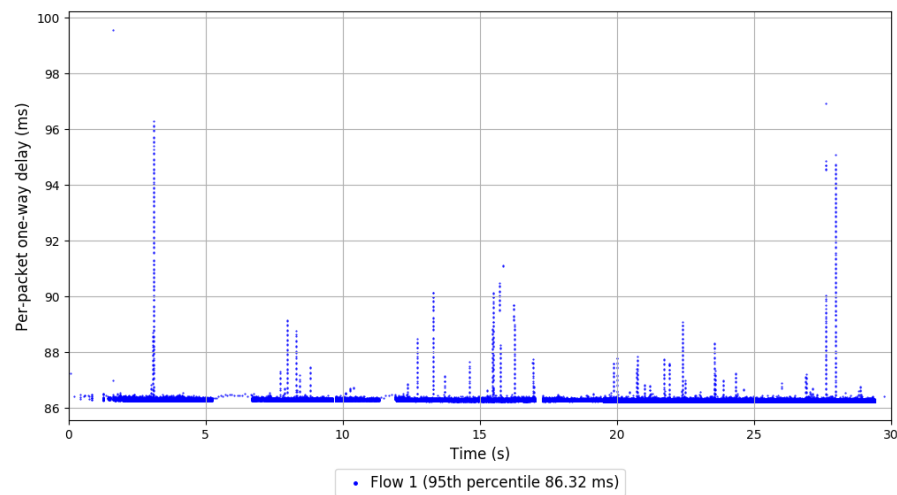
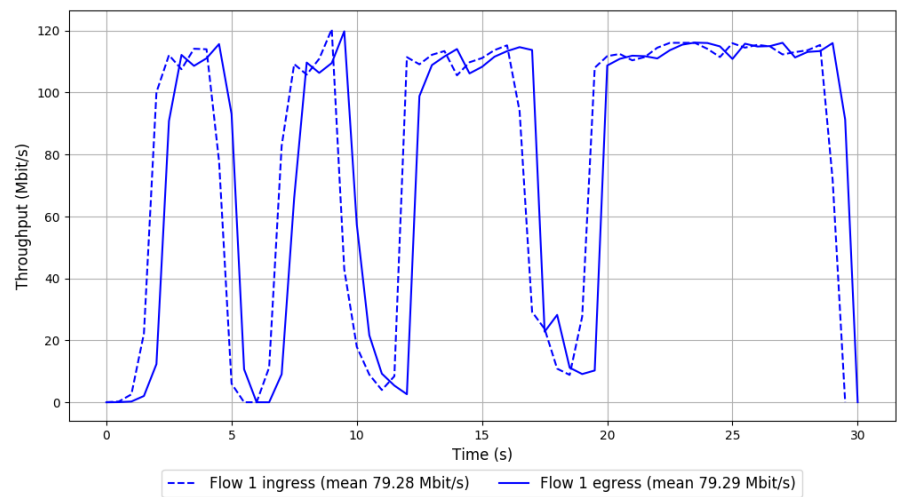
-- Flow 1:

Average throughput: 79.29 Mbit/s

95th percentile per-packet one-way delay: 86.316 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-11-23 23:53:30

End at: 2019-11-23 23:54:00

Local clock offset: 12.267 ms

Remote clock offset: 12.529 ms

Below is generated by plot.py at 2019-11-24 02:54:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.50 Mbit/s

95th percentile per-packet one-way delay: 86.041 ms

Loss rate: 0.91%

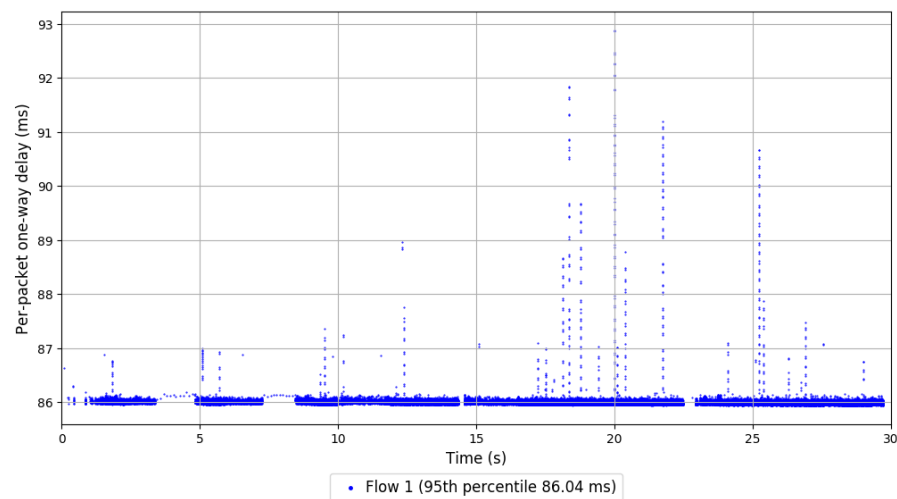
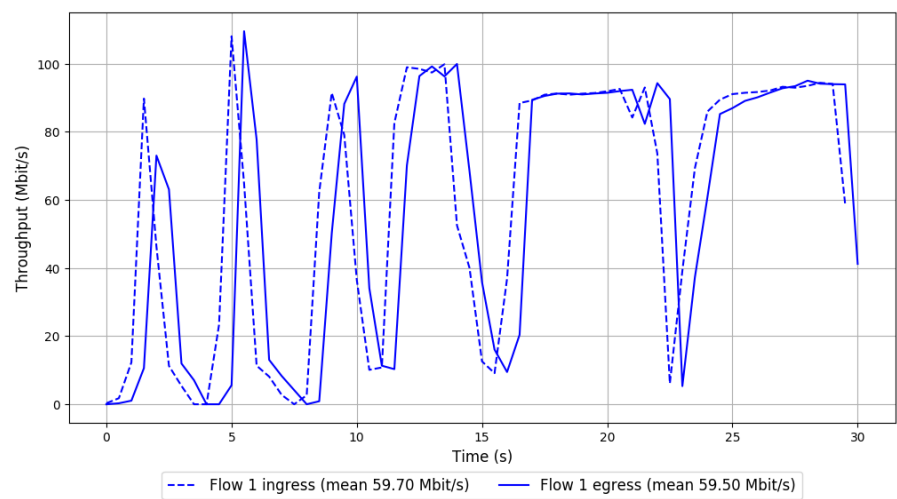
-- Flow 1:

Average throughput: 59.50 Mbit/s

95th percentile per-packet one-way delay: 86.041 ms

Loss rate: 0.91%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-11-24 00:28:27

End at: 2019-11-24 00:28:57

Local clock offset: 5.28 ms

Remote clock offset: 5.383 ms

Below is generated by plot.py at 2019-11-24 02:54:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.60 Mbit/s

95th percentile per-packet one-way delay: 86.032 ms

Loss rate: 0.96%

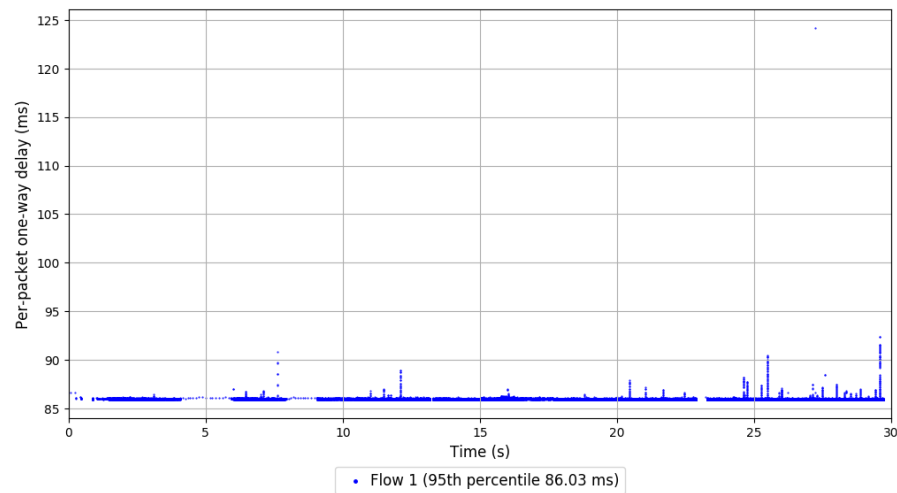
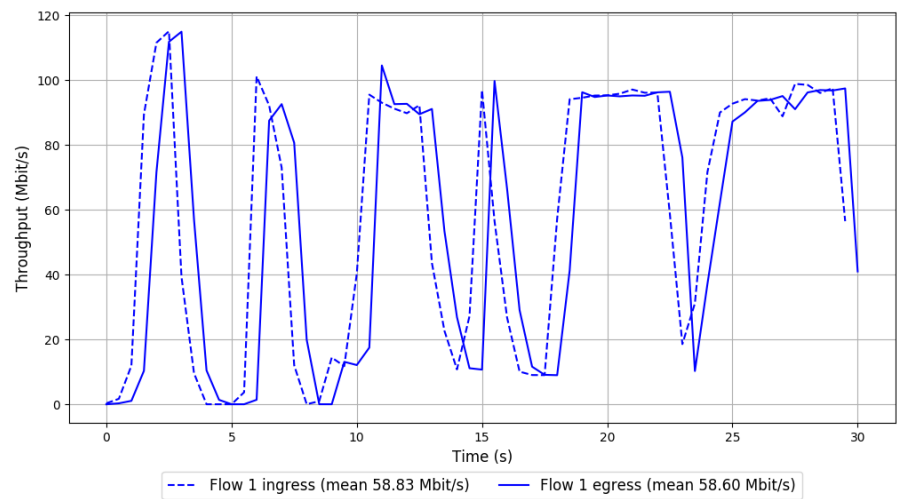
-- Flow 1:

Average throughput: 58.60 Mbit/s

95th percentile per-packet one-way delay: 86.032 ms

Loss rate: 0.96%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-11-24 01:04:04

End at: 2019-11-24 01:04:34

Local clock offset: 1.106 ms

Remote clock offset: 0.979 ms

Below is generated by plot.py at 2019-11-24 02:54:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.53 Mbit/s

95th percentile per-packet one-way delay: 85.934 ms

Loss rate: 0.00%

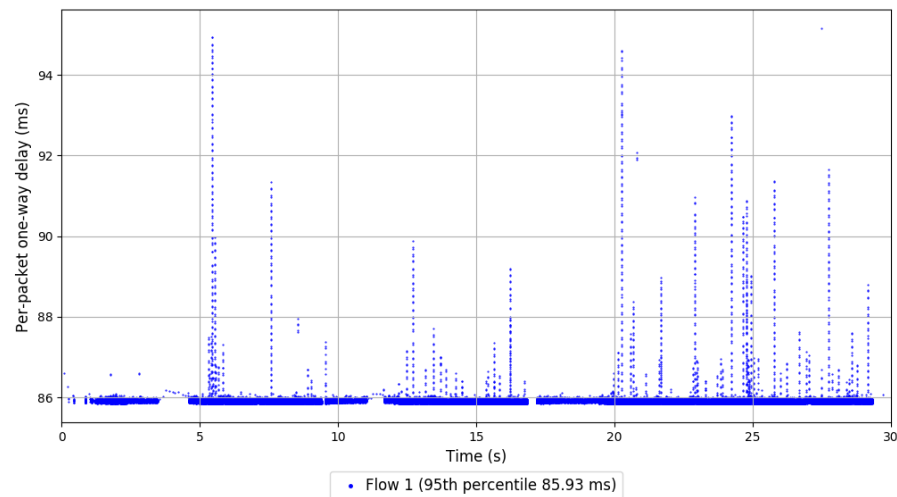
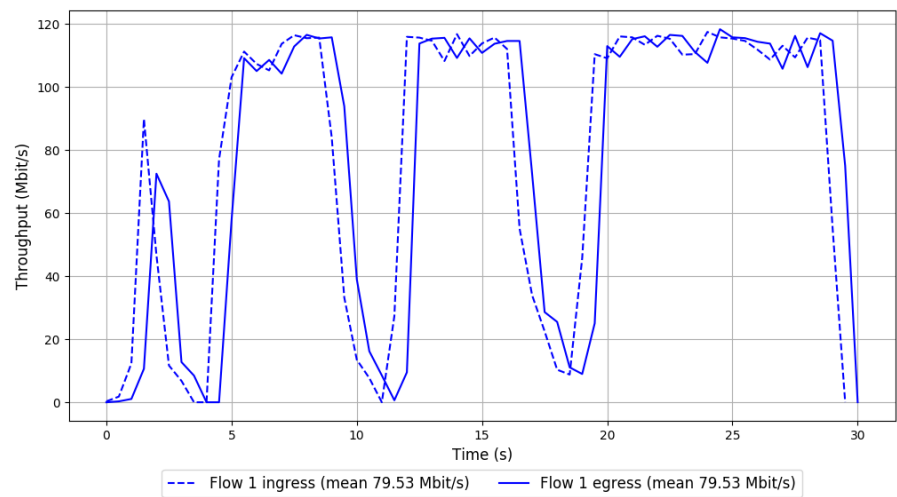
-- Flow 1:

Average throughput: 79.53 Mbit/s

95th percentile per-packet one-way delay: 85.934 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

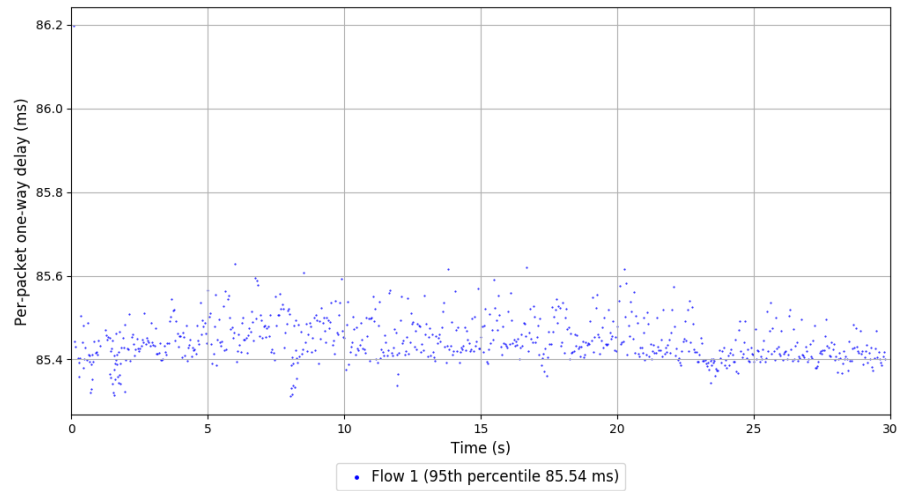
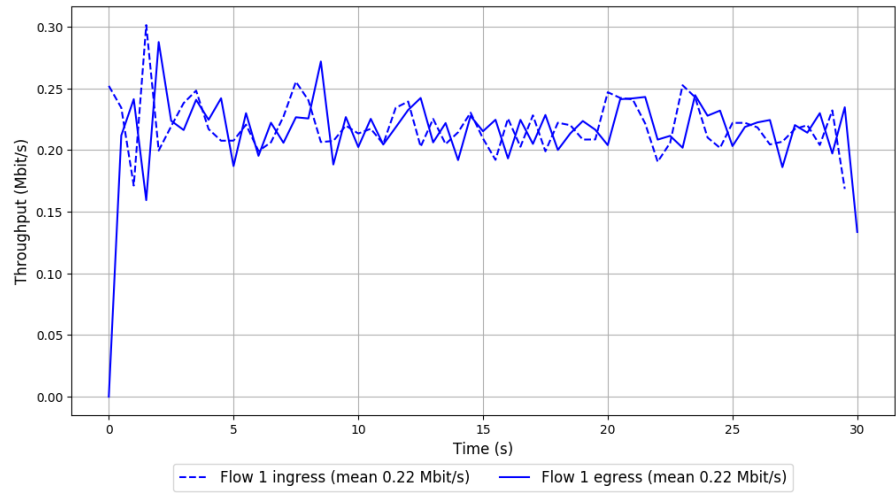


Run 1: Statistics of SCReAM

Start at: 2019-11-23 22:25:23
End at: 2019-11-23 22:25:53
Local clock offset: 11.674 ms
Remote clock offset: 12.016 ms

Below is generated by plot.py at 2019-11-24 02:54:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.539 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.539 ms
Loss rate: 0.52%

Run 1: Report of SReAM — Data Link

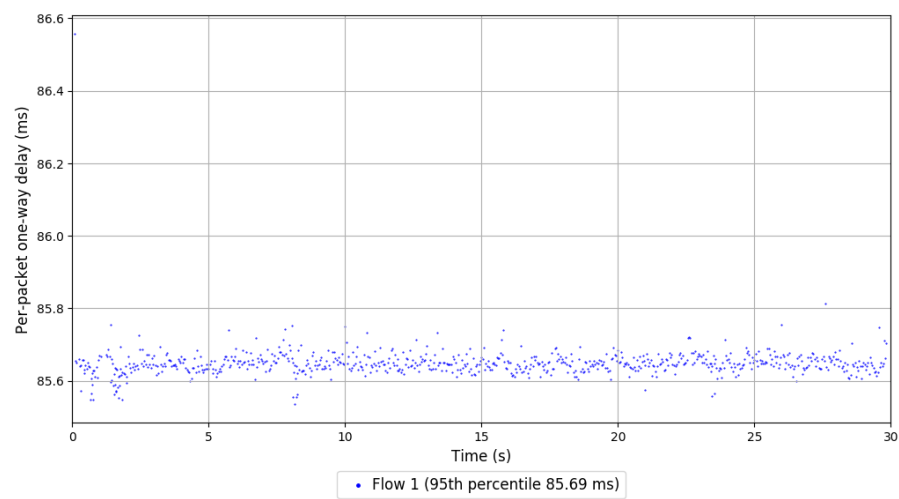
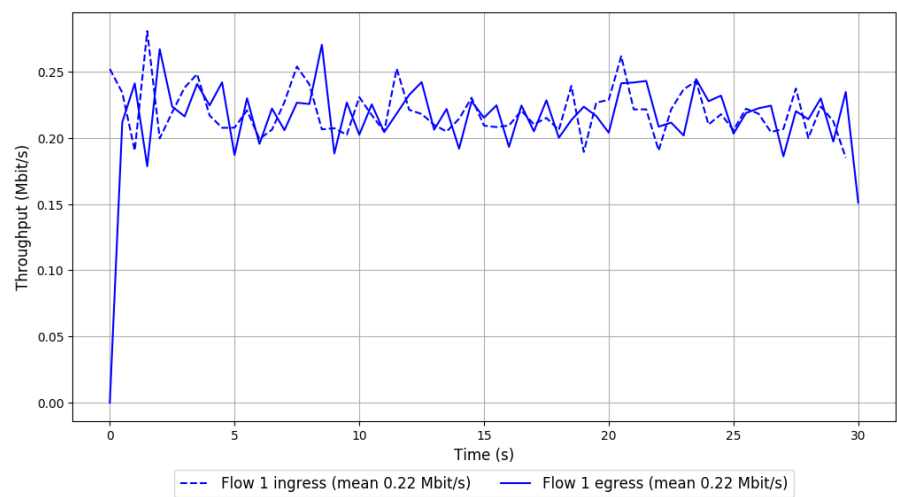


Run 2: Statistics of SCReAM

Start at: 2019-11-23 23:01:03
End at: 2019-11-23 23:01:33
Local clock offset: 17.404 ms
Remote clock offset: 17.788 ms

Below is generated by plot.py at 2019-11-24 02:54:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.691 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.691 ms
Loss rate: 0.51%

Run 2: Report of SReAM — Data Link

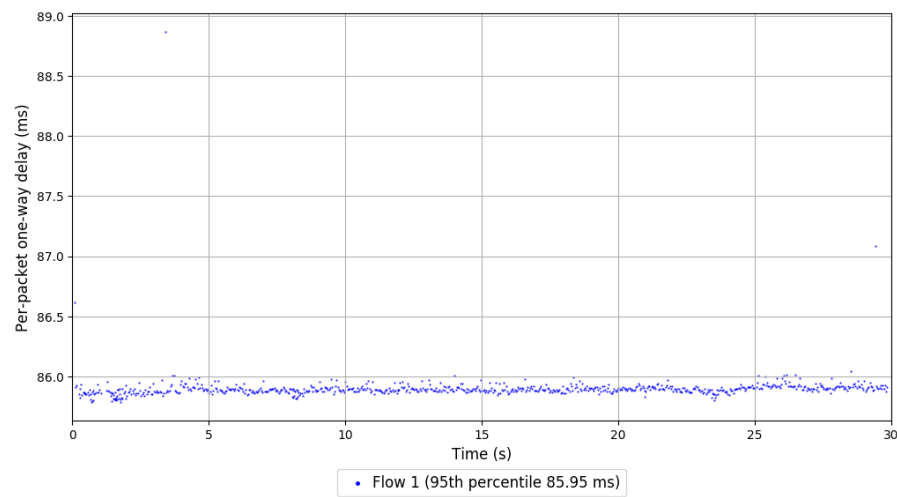
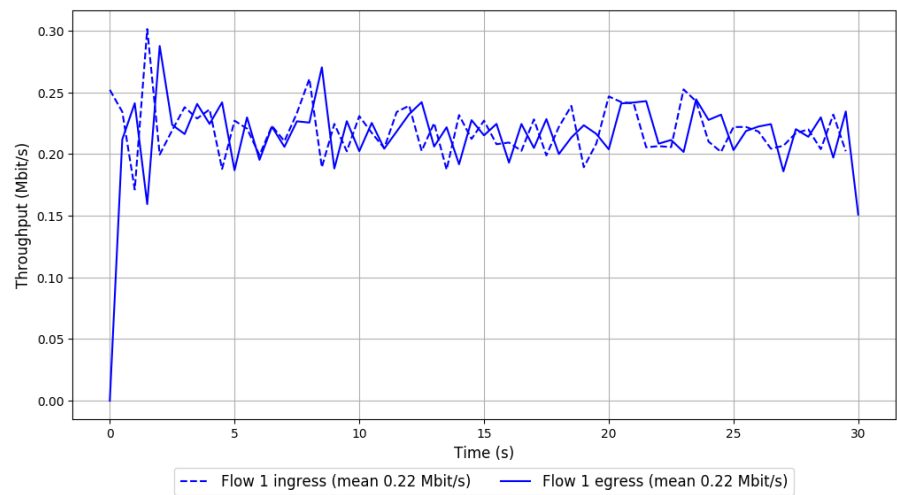


Run 3: Statistics of SCReAM

Start at: 2019-11-23 23:36:05
End at: 2019-11-23 23:36:35
Local clock offset: 11.055 ms
Remote clock offset: 11.259 ms

Below is generated by plot.py at 2019-11-24 02:54:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.954 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.954 ms
Loss rate: 0.64%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-11-24 00:10:54

End at: 2019-11-24 00:11:24

Local clock offset: 5.278 ms

Remote clock offset: 5.49 ms

Below is generated by plot.py at 2019-11-24 02:54:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.992 ms

Loss rate: 0.64%

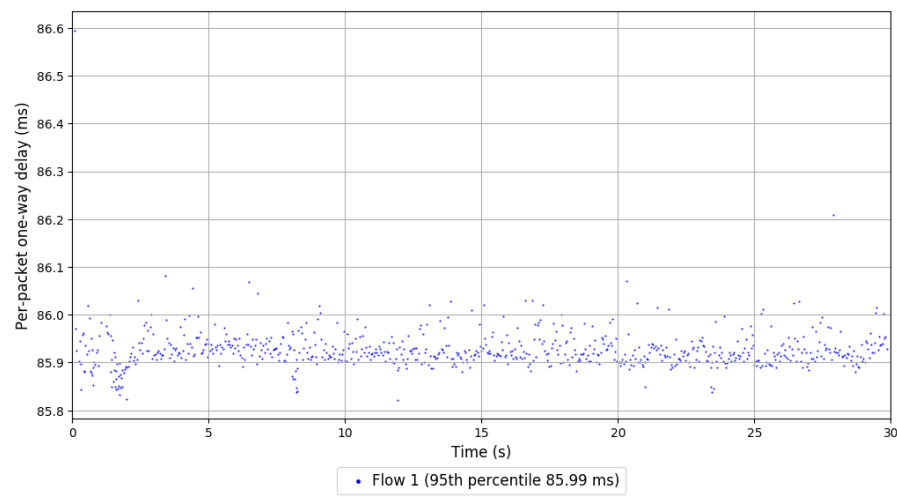
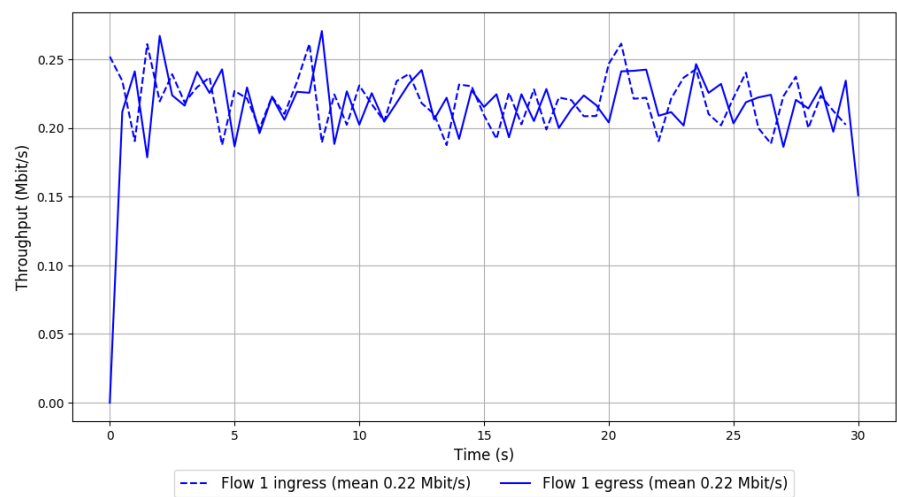
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.992 ms

Loss rate: 0.64%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-11-24 00:46:02

End at: 2019-11-24 00:46:32

Local clock offset: 1.544 ms

Remote clock offset: 1.442 ms

Below is generated by plot.py at 2019-11-24 02:54:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.984 ms

Loss rate: 0.51%

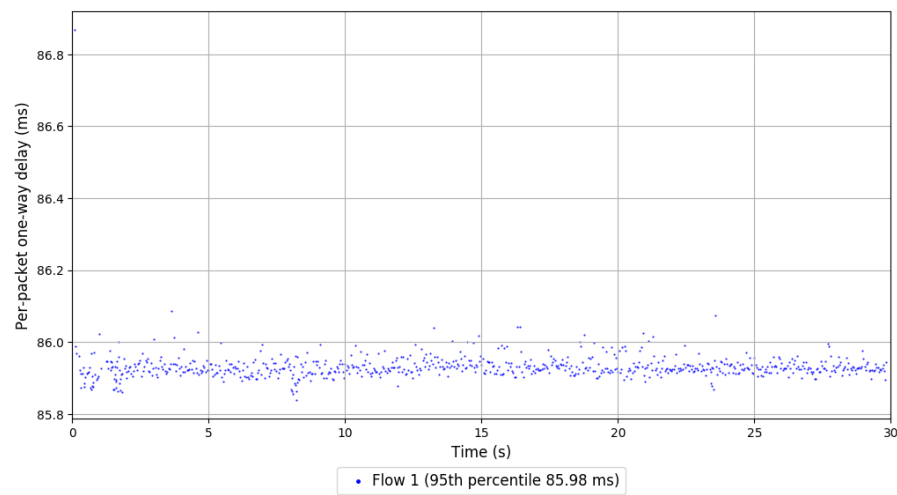
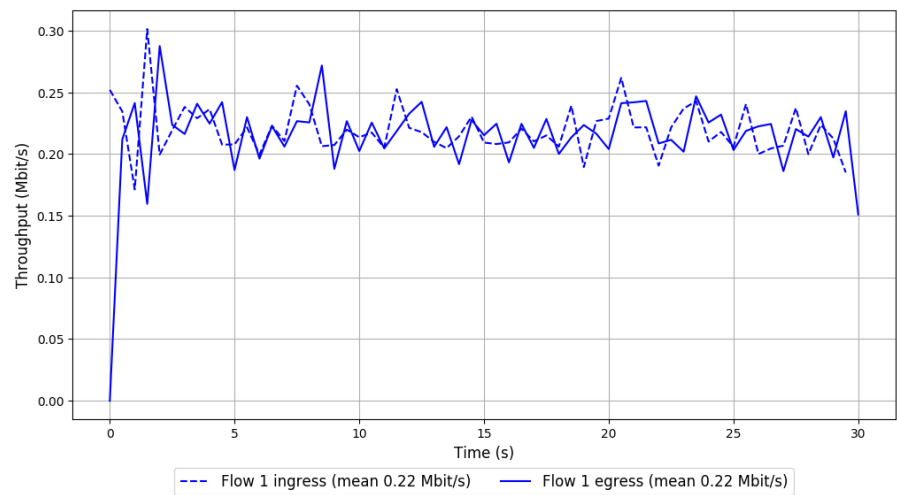
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.984 ms

Loss rate: 0.51%

Run 5: Report of SReAM — Data Link

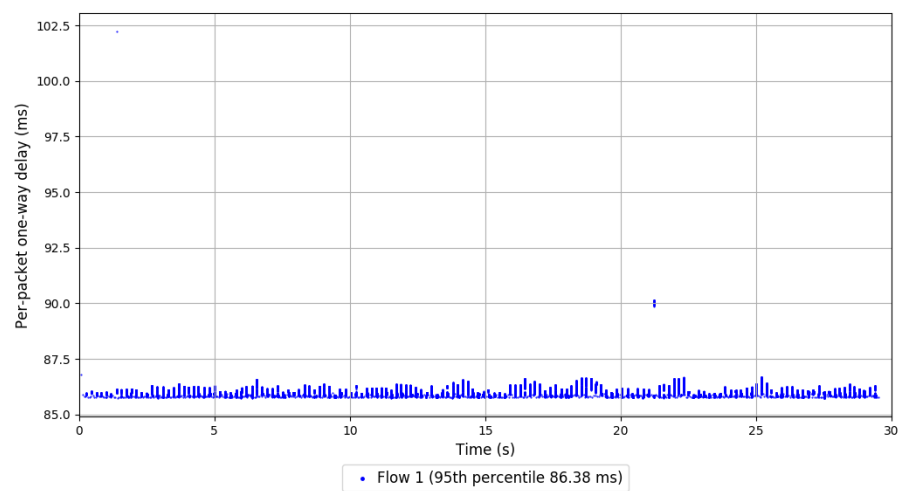
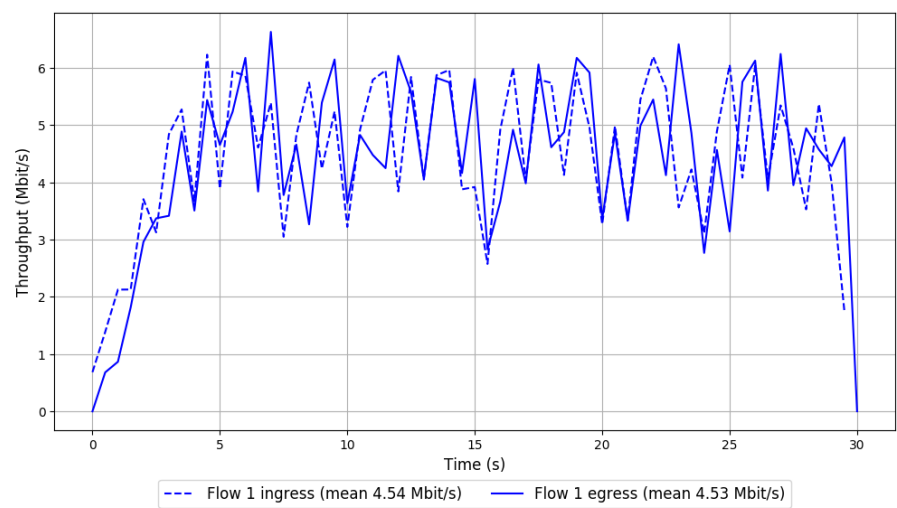


Run 1: Statistics of Sprout

Start at: 2019-11-23 22:40:31
End at: 2019-11-23 22:41:01
Local clock offset: 16.732 ms
Remote clock offset: 16.816 ms

Below is generated by plot.py at 2019-11-24 02:54:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.53 Mbit/s
95th percentile per-packet one-way delay: 86.378 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 4.53 Mbit/s
95th percentile per-packet one-way delay: 86.378 ms
Loss rate: 0.76%

Run 1: Report of Sprout — Data Link

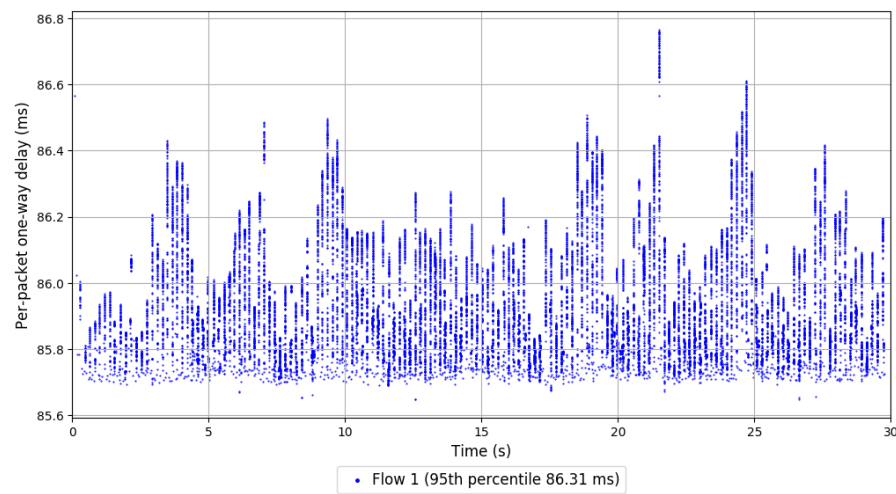
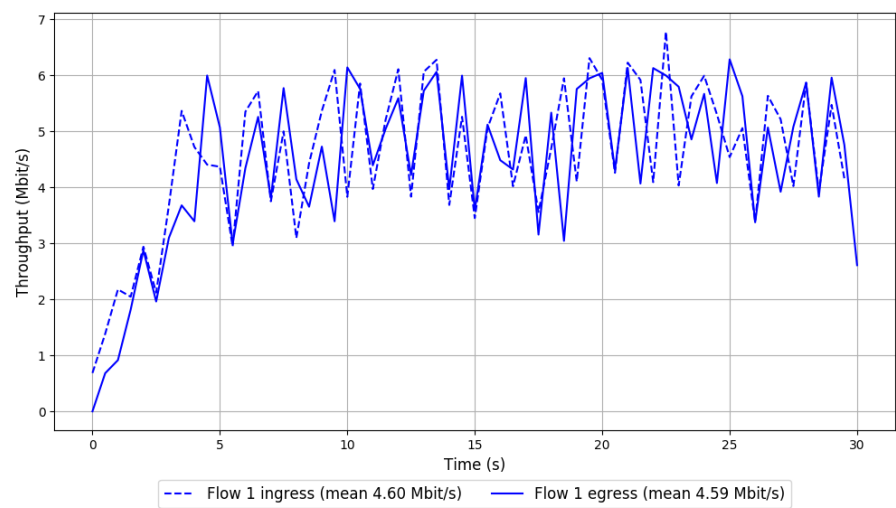


Run 2: Statistics of Sprout

Start at: 2019-11-23 23:15:55
End at: 2019-11-23 23:16:25
Local clock offset: 28.21 ms
Remote clock offset: 28.504 ms

Below is generated by plot.py at 2019-11-24 02:54:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.59 Mbit/s
95th percentile per-packet one-way delay: 86.314 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 4.59 Mbit/s
95th percentile per-packet one-way delay: 86.314 ms
Loss rate: 0.82%

Run 2: Report of Sprout — Data Link

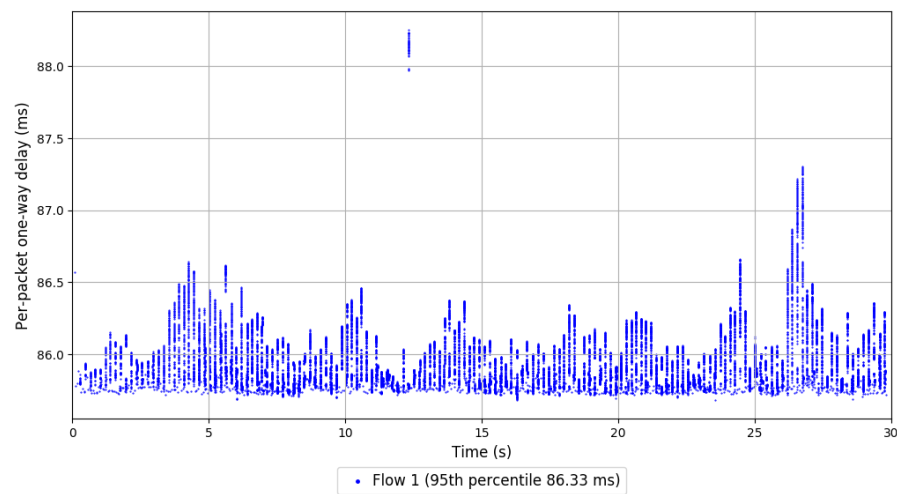
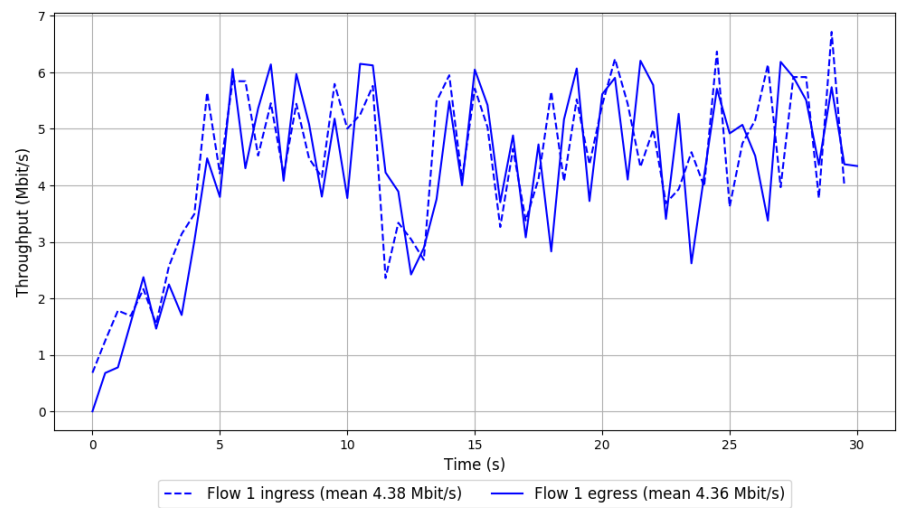


Run 3: Statistics of Sprout

Start at: 2019-11-23 23:50:37
End at: 2019-11-23 23:51:07
Local clock offset: 14.367 ms
Remote clock offset: 14.763 ms

Below is generated by plot.py at 2019-11-24 02:54:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.36 Mbit/s
95th percentile per-packet one-way delay: 86.332 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 4.36 Mbit/s
95th percentile per-packet one-way delay: 86.332 ms
Loss rate: 0.76%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-11-24 00:25:33

End at: 2019-11-24 00:26:03

Local clock offset: 6.957 ms

Remote clock offset: 7.195 ms

Below is generated by plot.py at 2019-11-24 02:54:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.59 Mbit/s

95th percentile per-packet one-way delay: 86.714 ms

Loss rate: 0.58%

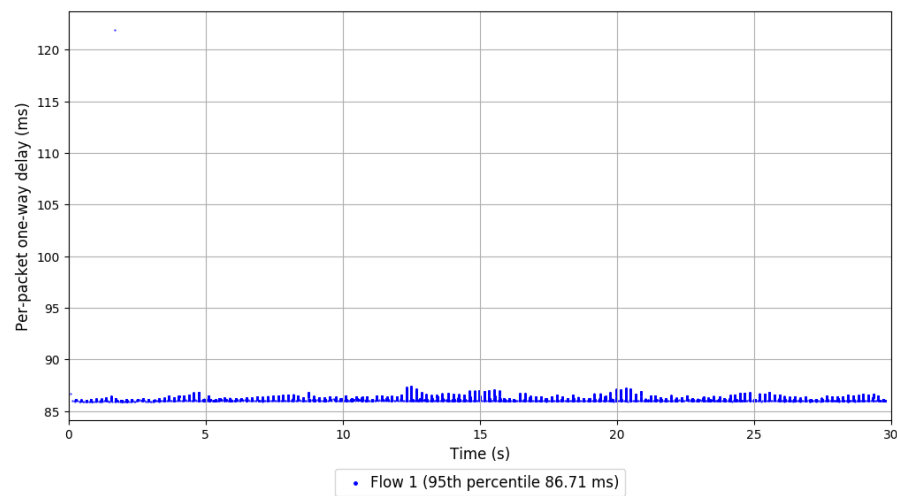
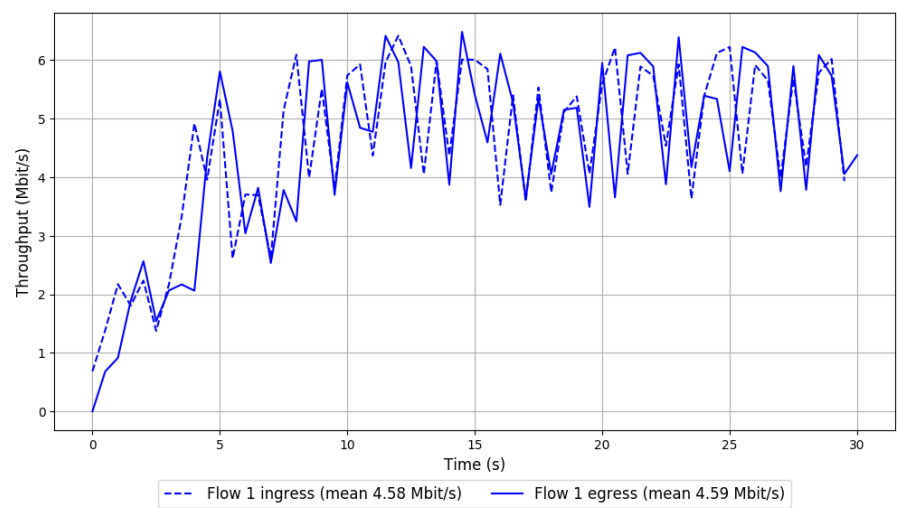
-- Flow 1:

Average throughput: 4.59 Mbit/s

95th percentile per-packet one-way delay: 86.714 ms

Loss rate: 0.58%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-11-24 01:01:09

End at: 2019-11-24 01:01:39

Local clock offset: 1.454 ms

Remote clock offset: 1.295 ms

Below is generated by plot.py at 2019-11-24 02:54:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.72 Mbit/s

95th percentile per-packet one-way delay: 86.574 ms

Loss rate: 0.55%

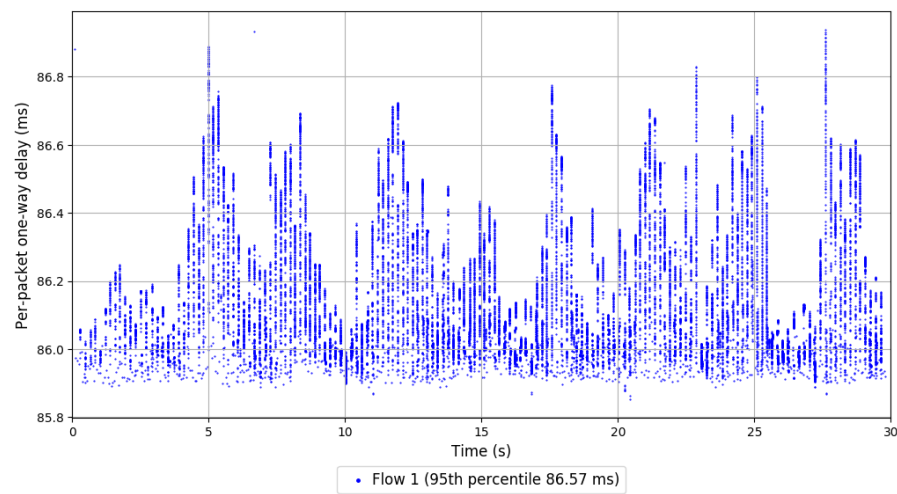
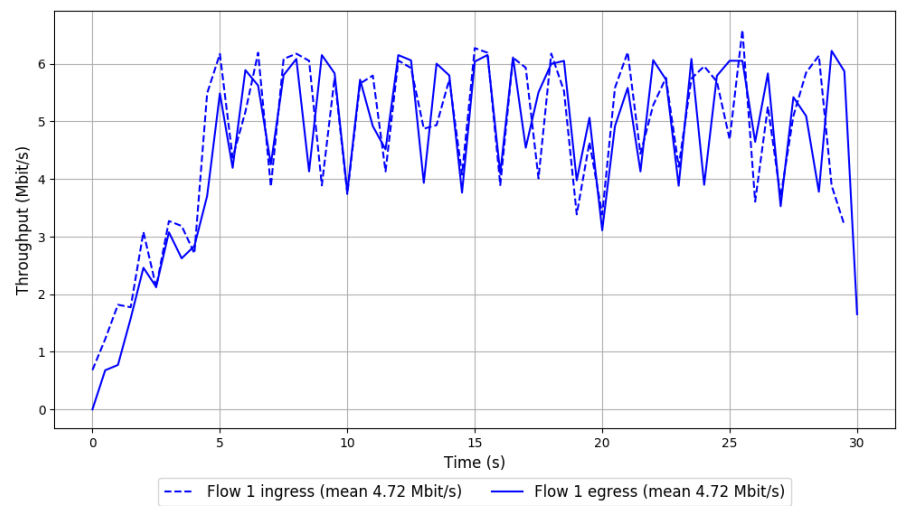
-- Flow 1:

Average throughput: 4.72 Mbit/s

95th percentile per-packet one-way delay: 86.574 ms

Loss rate: 0.55%

Run 5: Report of Sprout — Data Link

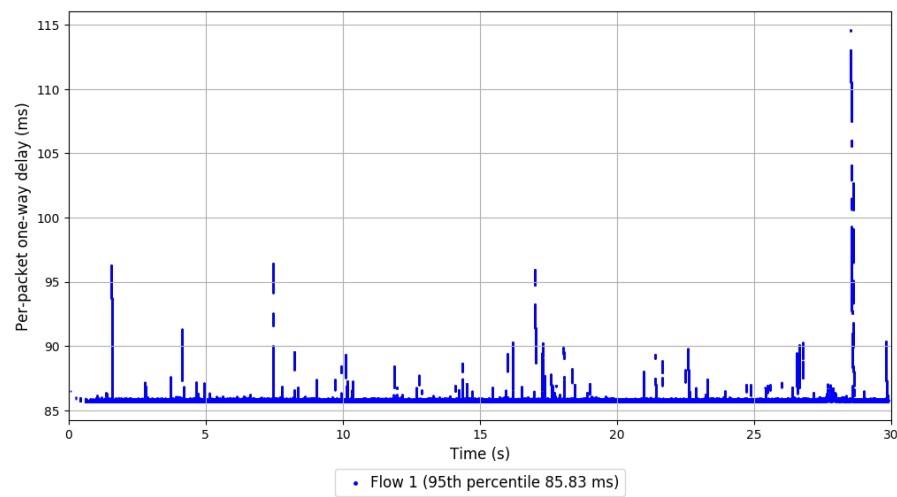
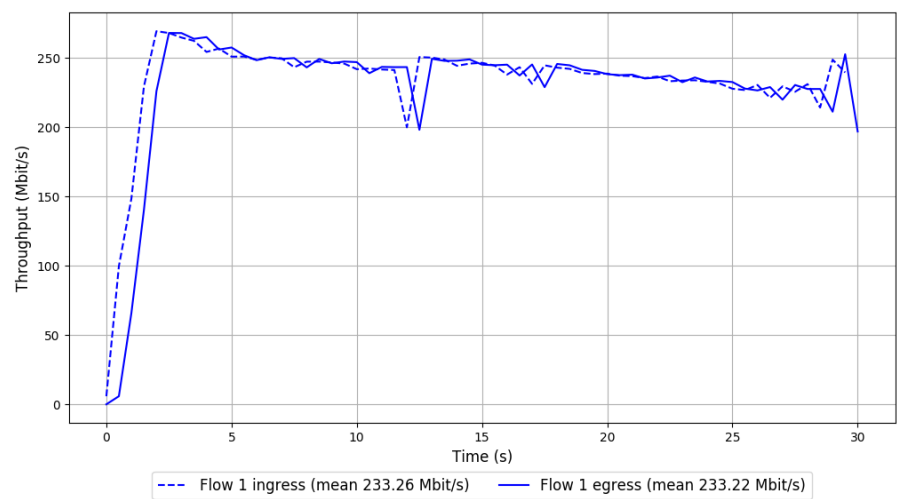


```
Run 1: Statistics of TaoVA-100x

Start at: 2019-11-23 22:32:58
End at: 2019-11-23 22:33:28
Local clock offset: 10.334 ms
Remote clock offset: 10.452 ms

# Below is generated by plot.py at 2019-11-24 02:56:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 233.22 Mbit/s
95th percentile per-packet one-way delay: 85.831 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 233.22 Mbit/s
95th percentile per-packet one-way delay: 85.831 ms
Loss rate: 0.60%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-11-23 23:08:33

End at: 2019-11-23 23:09:03

Local clock offset: 22.316 ms

Remote clock offset: 22.846 ms

Below is generated by plot.py at 2019-11-24 02:56:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.59 Mbit/s

95th percentile per-packet one-way delay: 85.498 ms

Loss rate: 0.58%

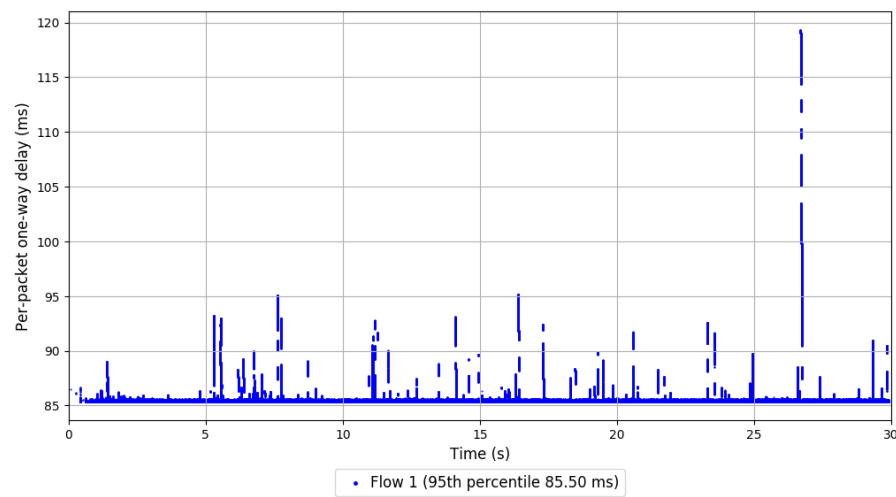
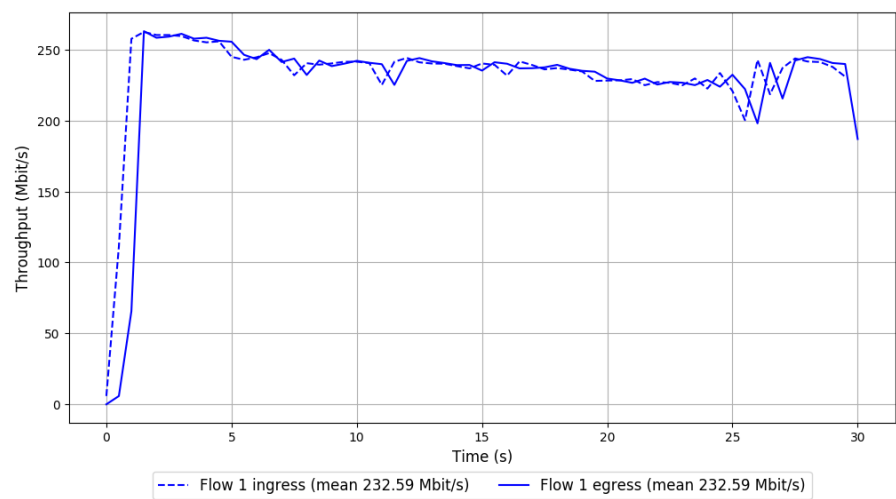
-- Flow 1:

Average throughput: 232.59 Mbit/s

95th percentile per-packet one-way delay: 85.498 ms

Loss rate: 0.58%

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

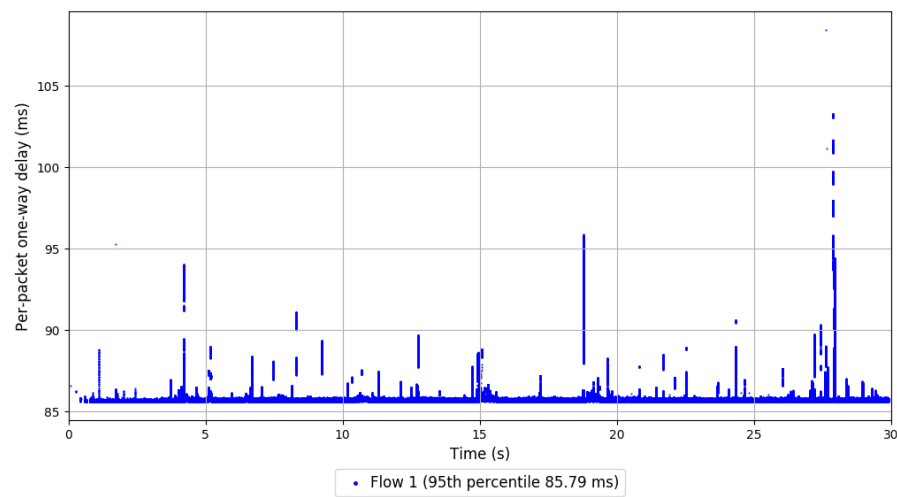
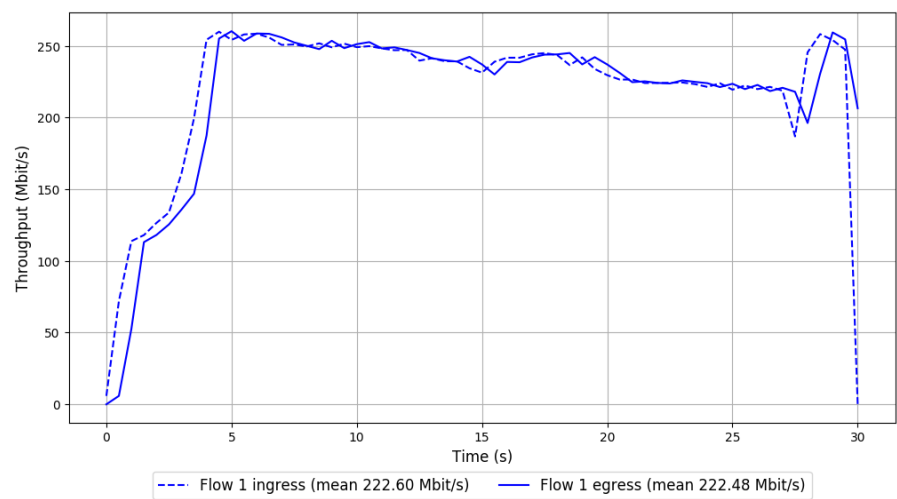


Run 3: Statistics of TaoVA-100x

Start at: 2019-11-23 23:42:54
End at: 2019-11-23 23:43:24
Local clock offset: 11.992 ms
Remote clock offset: 12.383 ms

Below is generated by plot.py at 2019-11-24 02:56:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 222.48 Mbit/s
95th percentile per-packet one-way delay: 85.791 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 222.48 Mbit/s
95th percentile per-packet one-way delay: 85.791 ms
Loss rate: 0.63%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-11-24 00:18:31

End at: 2019-11-24 00:19:01

Local clock offset: 5.886 ms

Remote clock offset: 6.117 ms

Below is generated by plot.py at 2019-11-24 02:56:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.01 Mbit/s

95th percentile per-packet one-way delay: 85.924 ms

Loss rate: 0.64%

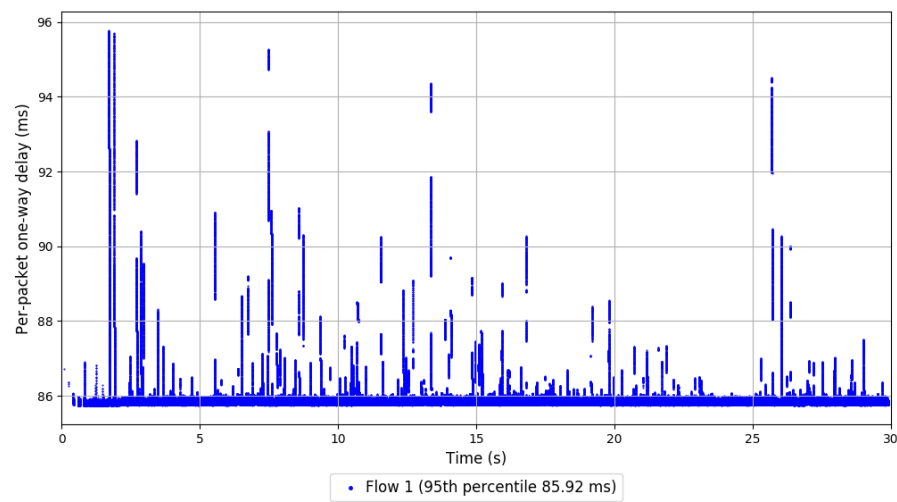
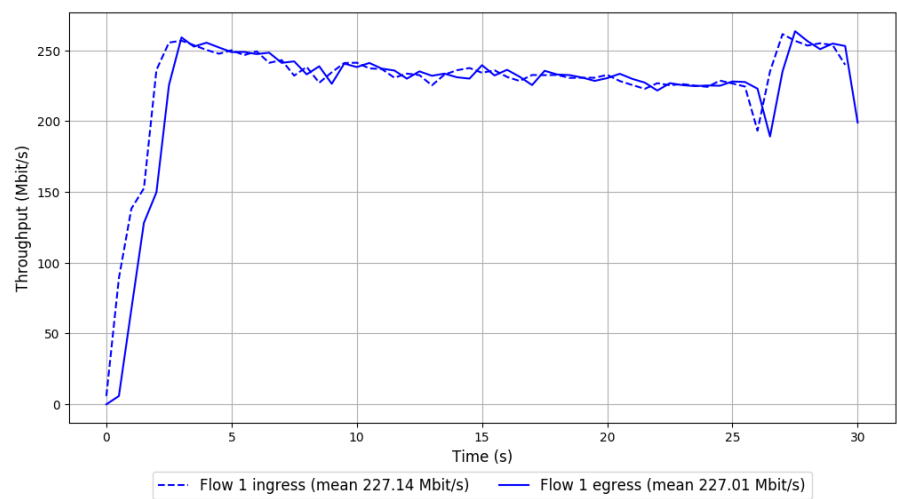
-- Flow 1:

Average throughput: 227.01 Mbit/s

95th percentile per-packet one-way delay: 85.924 ms

Loss rate: 0.64%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-11-24 00:53:39

End at: 2019-11-24 00:54:09

Local clock offset: 1.522 ms

Remote clock offset: 1.358 ms

Below is generated by plot.py at 2019-11-24 02:56:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.07 Mbit/s

95th percentile per-packet one-way delay: 86.030 ms

Loss rate: 0.60%

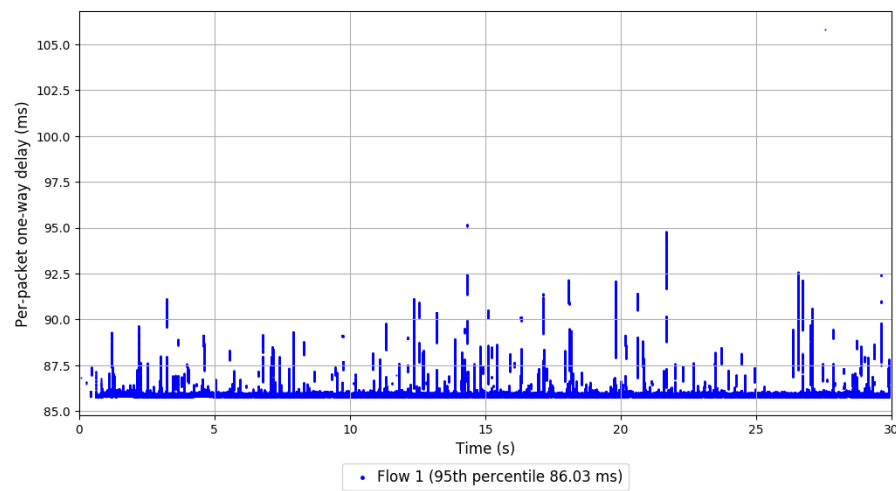
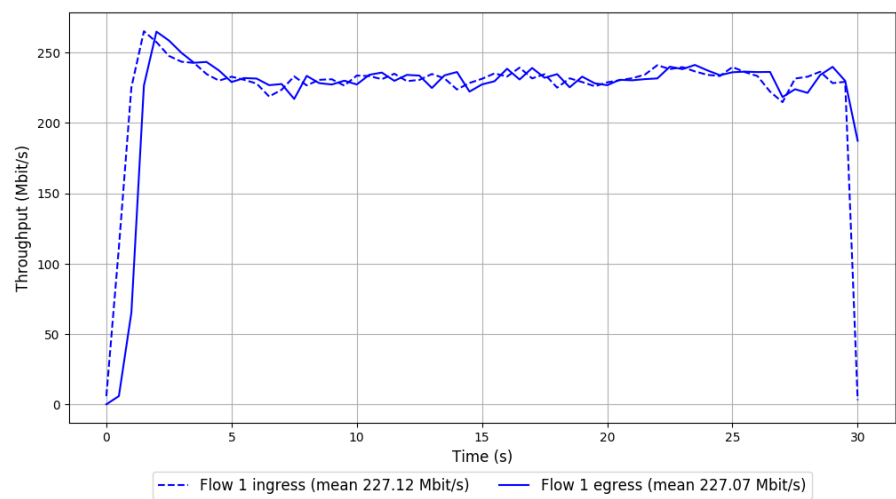
-- Flow 1:

Average throughput: 227.07 Mbit/s

95th percentile per-packet one-way delay: 86.030 ms

Loss rate: 0.60%

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

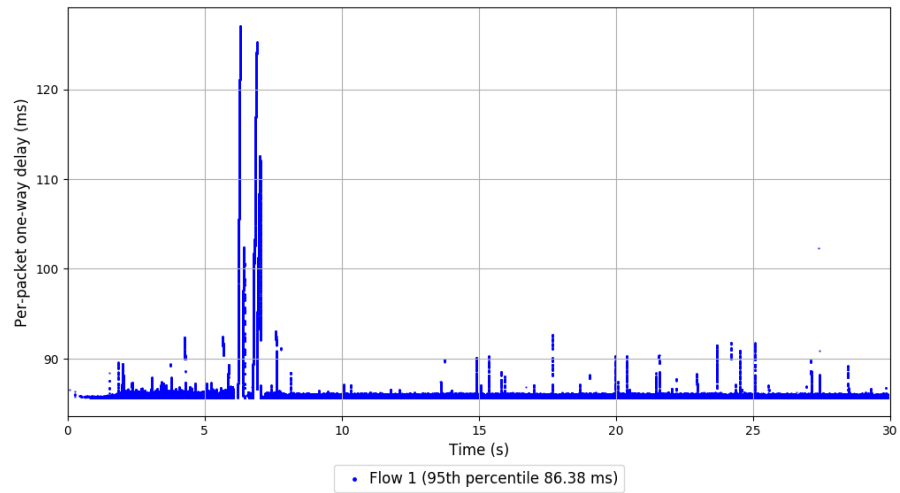
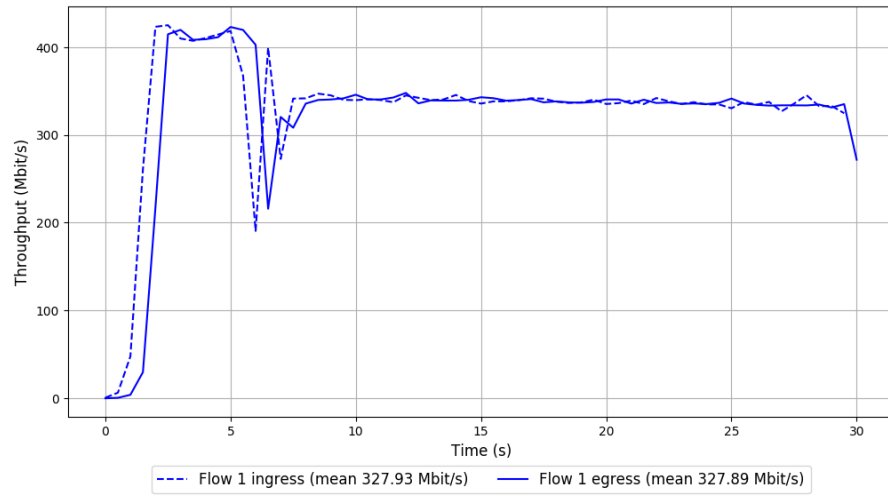


Run 1: Statistics of TCP Vegas

Start at: 2019-11-23 22:34:29
End at: 2019-11-23 22:34:59
Local clock offset: 11.122 ms
Remote clock offset: 11.286 ms

Below is generated by plot.py at 2019-11-24 02:56:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 327.89 Mbit/s
95th percentile per-packet one-way delay: 86.383 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 327.89 Mbit/s
95th percentile per-packet one-way delay: 86.383 ms
Loss rate: 0.59%

Run 1: Report of TCP Vegas — Data Link

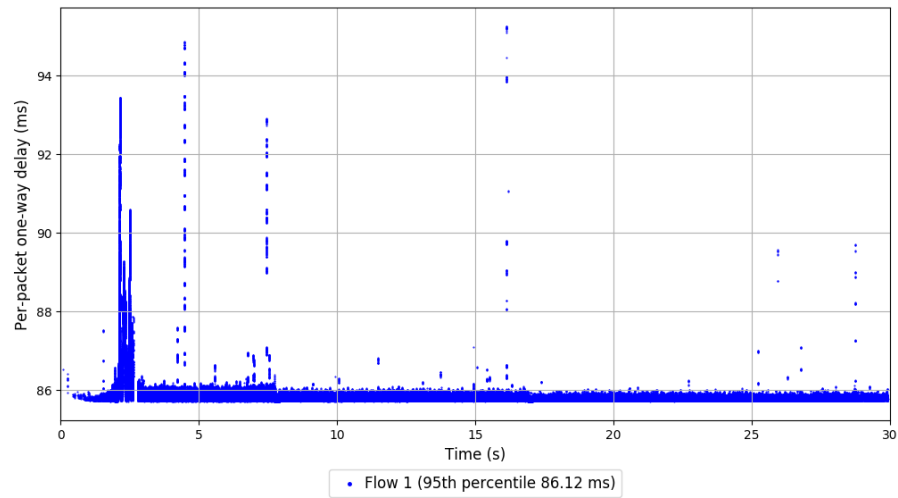
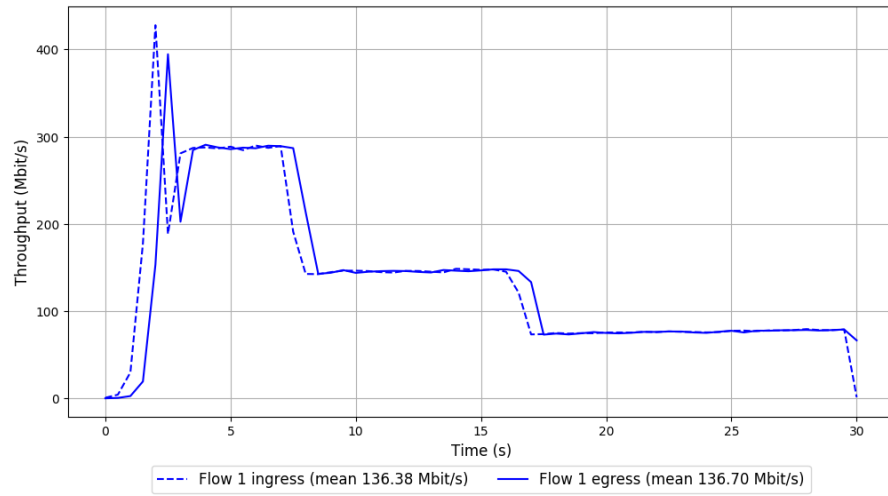


Run 2: Statistics of TCP Vegas

Start at: 2019-11-23 23:10:04
End at: 2019-11-23 23:10:34
Local clock offset: 23.68 ms
Remote clock offset: 23.876 ms

Below is generated by plot.py at 2019-11-24 02:56:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 136.70 Mbit/s
95th percentile per-packet one-way delay: 86.116 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 136.70 Mbit/s
95th percentile per-packet one-way delay: 86.116 ms
Loss rate: 0.34%

Run 2: Report of TCP Vegas — Data Link

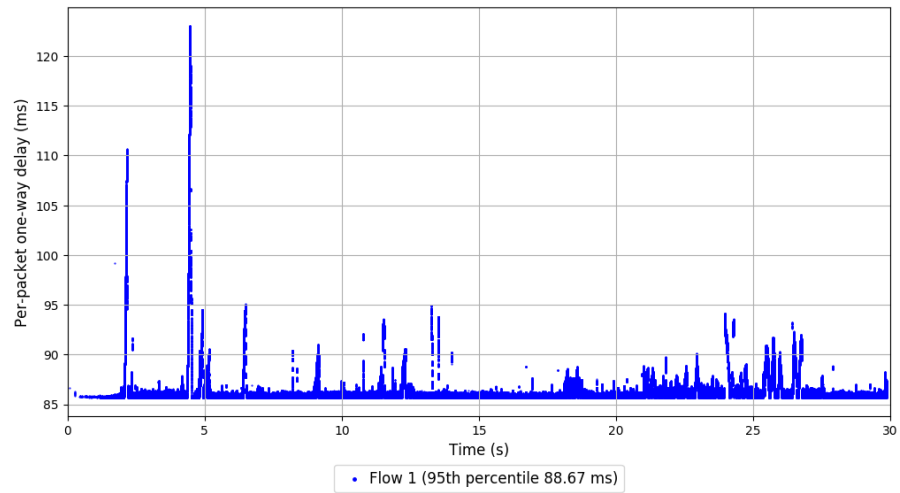
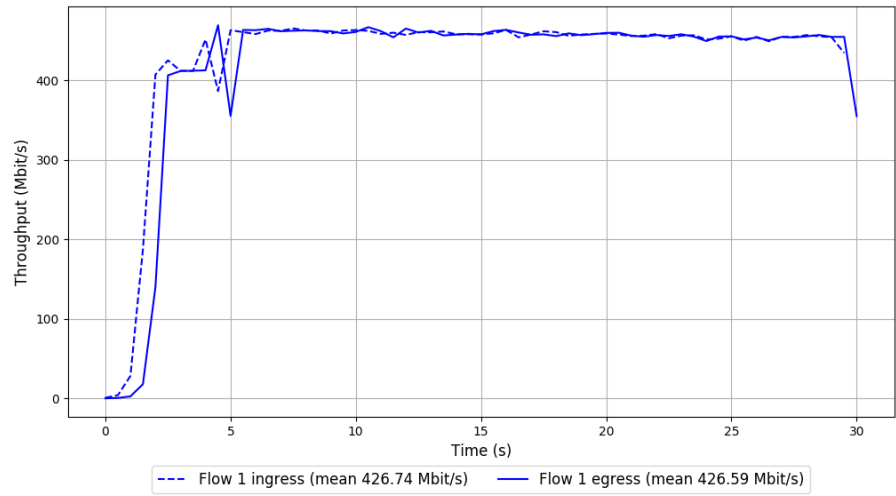


Run 3: Statistics of TCP Vegas

Start at: 2019-11-23 23:44:24
End at: 2019-11-23 23:44:54
Local clock offset: 12.423 ms
Remote clock offset: 12.734 ms

Below is generated by plot.py at 2019-11-24 03:01:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 426.59 Mbit/s
95th percentile per-packet one-way delay: 88.667 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 426.59 Mbit/s
95th percentile per-packet one-way delay: 88.667 ms
Loss rate: 0.61%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-11-24 00:20:01

End at: 2019-11-24 00:20:31

Local clock offset: 6.431 ms

Remote clock offset: 6.382 ms

Below is generated by plot.py at 2019-11-24 03:01:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.05 Mbit/s

95th percentile per-packet one-way delay: 89.816 ms

Loss rate: 0.49%

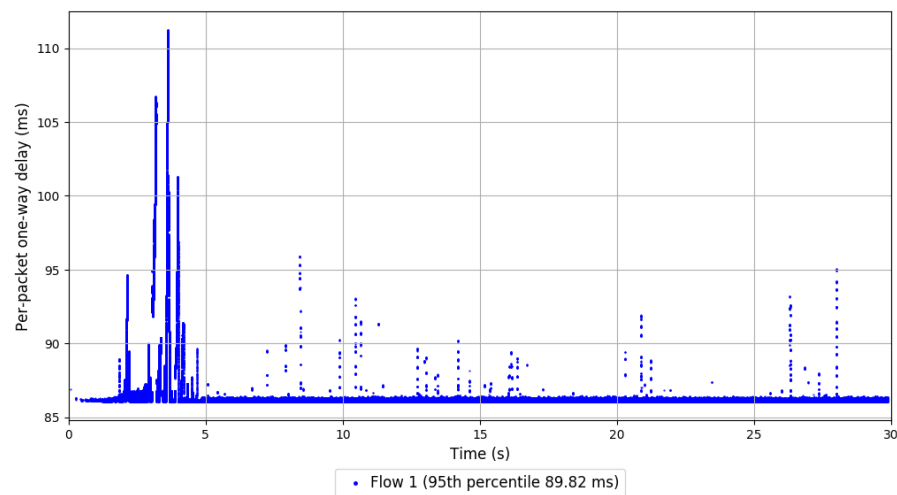
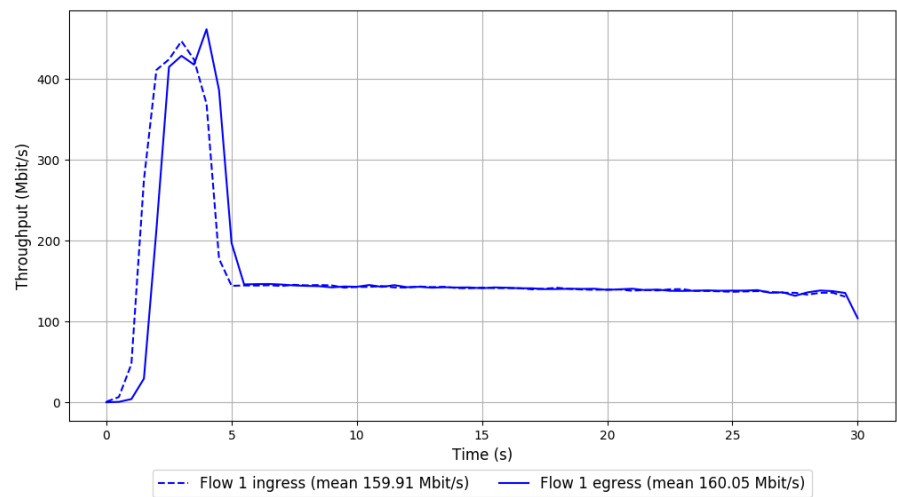
-- Flow 1:

Average throughput: 160.05 Mbit/s

95th percentile per-packet one-way delay: 89.816 ms

Loss rate: 0.49%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-11-24 00:55:09

End at: 2019-11-24 00:55:39

Local clock offset: 1.534 ms

Remote clock offset: 1.381 ms

Below is generated by plot.py at 2019-11-24 03:01:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.67 Mbit/s

95th percentile per-packet one-way delay: 88.314 ms

Loss rate: 0.44%

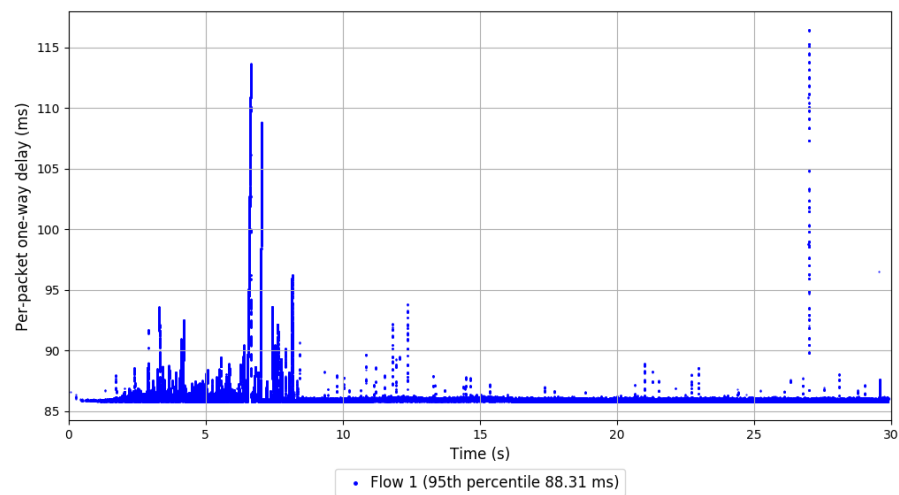
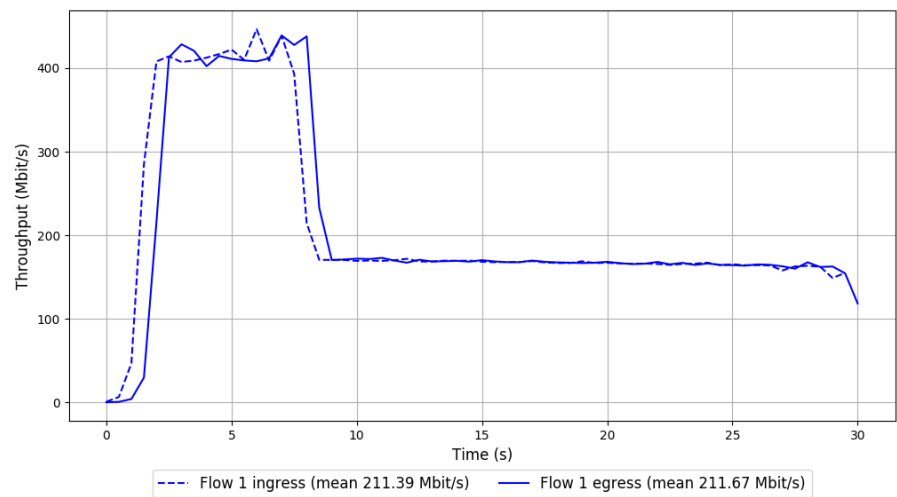
-- Flow 1:

Average throughput: 211.67 Mbit/s

95th percentile per-packet one-way delay: 88.314 ms

Loss rate: 0.44%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-11-23 22:12:42

End at: 2019-11-23 22:13:12

Local clock offset: 3.541 ms

Remote clock offset: 3.952 ms

Below is generated by plot.py at 2019-11-24 03:01:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.86 Mbit/s

95th percentile per-packet one-way delay: 146.175 ms

Loss rate: 0.02%

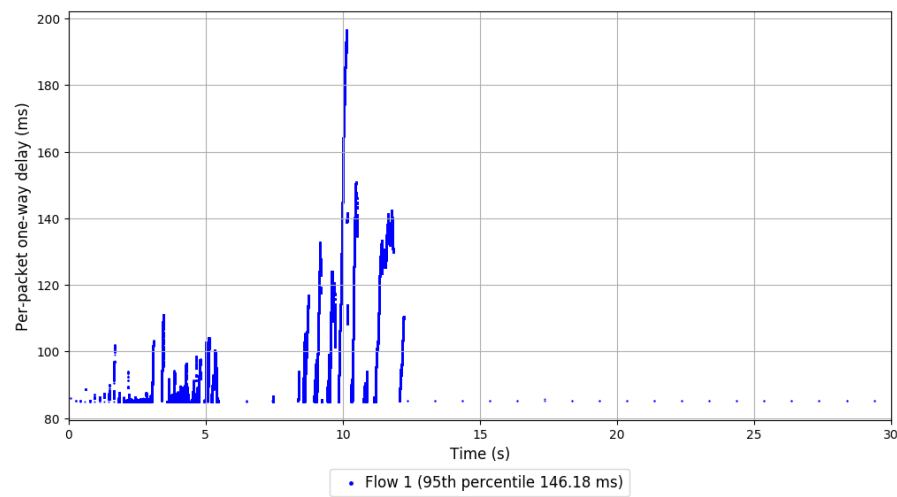
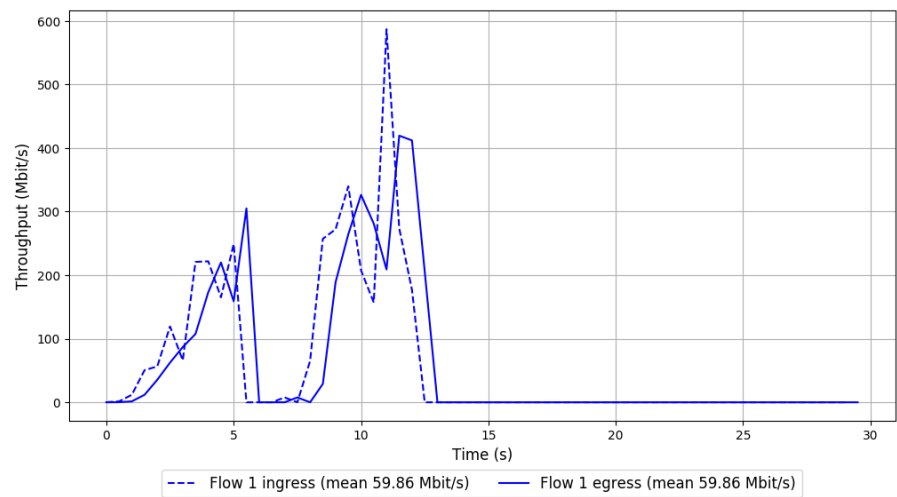
-- Flow 1:

Average throughput: 59.86 Mbit/s

95th percentile per-packet one-way delay: 146.175 ms

Loss rate: 0.02%

Run 1: Report of Verus — Data Link

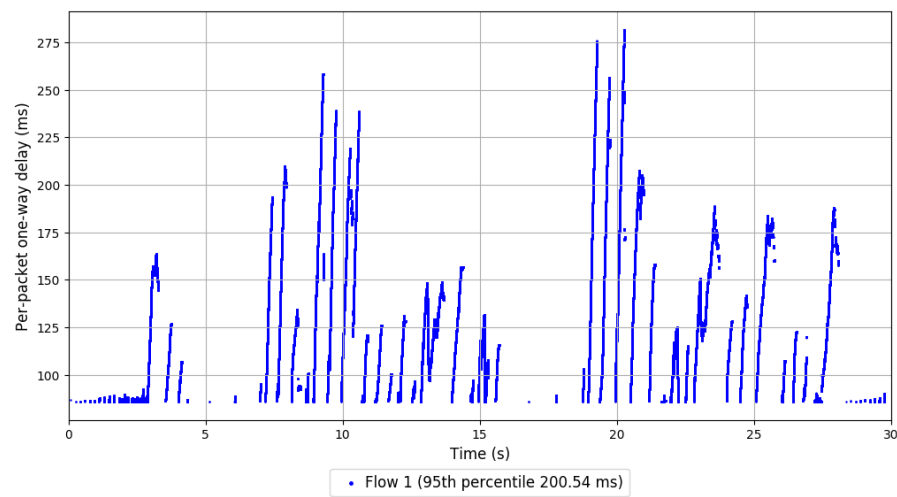
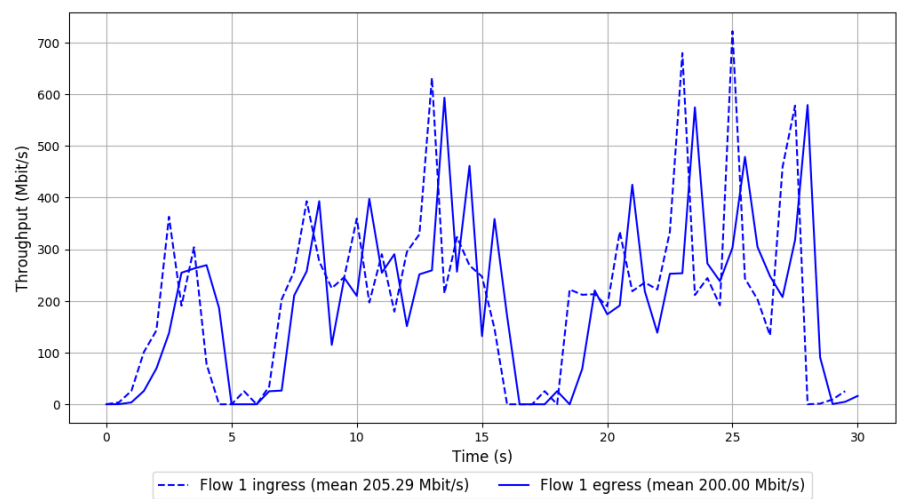


Run 2: Statistics of Verus

Start at: 2019-11-23 22:47:36
End at: 2019-11-23 22:48:06
Local clock offset: 15.775 ms
Remote clock offset: 15.908 ms

Below is generated by plot.py at 2019-11-24 03:02:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 200.00 Mbit/s
95th percentile per-packet one-way delay: 200.543 ms
Loss rate: 3.15%
-- Flow 1:
Average throughput: 200.00 Mbit/s
95th percentile per-packet one-way delay: 200.543 ms
Loss rate: 3.15%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-11-23 23:22:53

End at: 2019-11-23 23:23:23

Local clock offset: 17.969 ms

Remote clock offset: 18.07 ms

Below is generated by plot.py at 2019-11-24 03:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.49 Mbit/s

95th percentile per-packet one-way delay: 123.407 ms

Loss rate: 0.00%

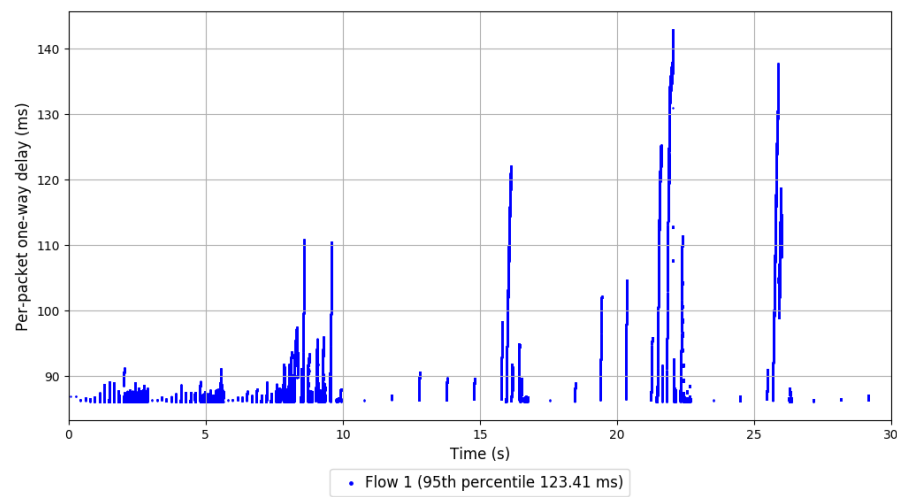
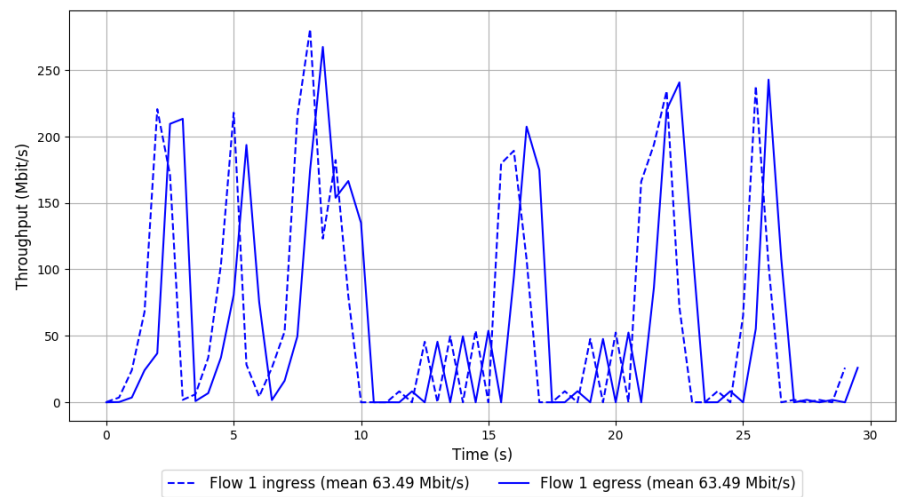
-- Flow 1:

Average throughput: 63.49 Mbit/s

95th percentile per-packet one-way delay: 123.407 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-11-23 23:57:46

End at: 2019-11-23 23:58:16

Local clock offset: 8.793 ms

Remote clock offset: 8.594 ms

Below is generated by plot.py at 2019-11-24 03:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.02 Mbit/s

95th percentile per-packet one-way delay: 102.021 ms

Loss rate: 0.00%

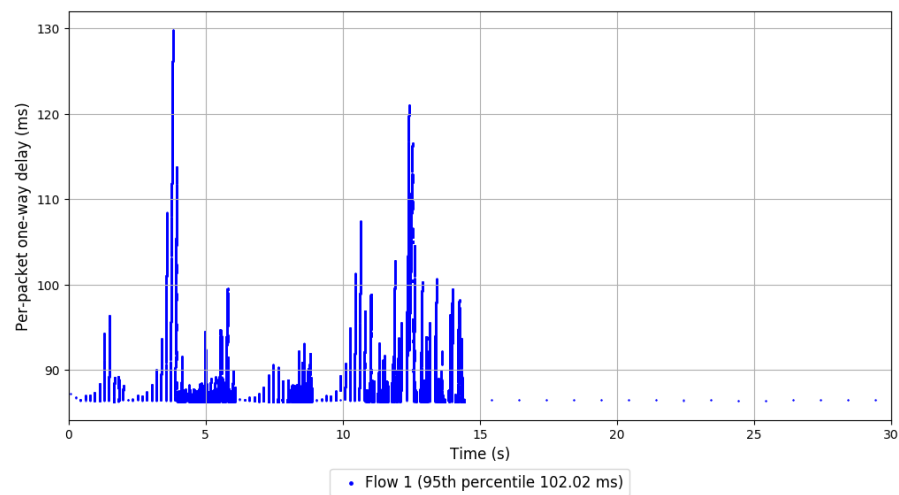
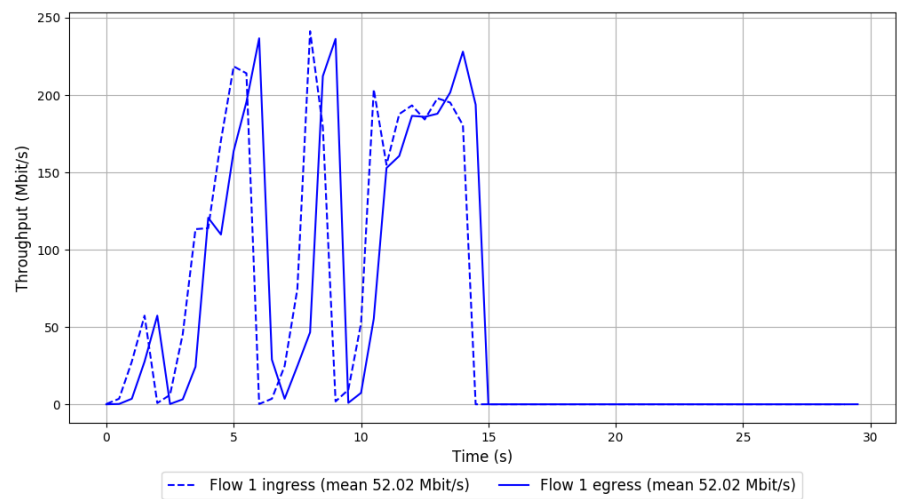
-- Flow 1:

Average throughput: 52.02 Mbit/s

95th percentile per-packet one-way delay: 102.021 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-11-24 00:32:44

End at: 2019-11-24 00:33:14

Local clock offset: 3.469 ms

Remote clock offset: 3.414 ms

Below is generated by plot.py at 2019-11-24 03:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.47 Mbit/s

95th percentile per-packet one-way delay: 143.497 ms

Loss rate: 0.00%

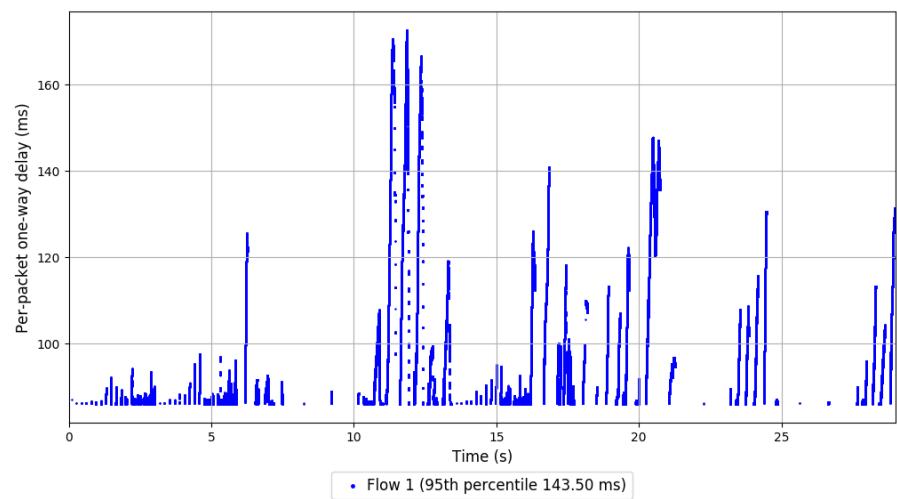
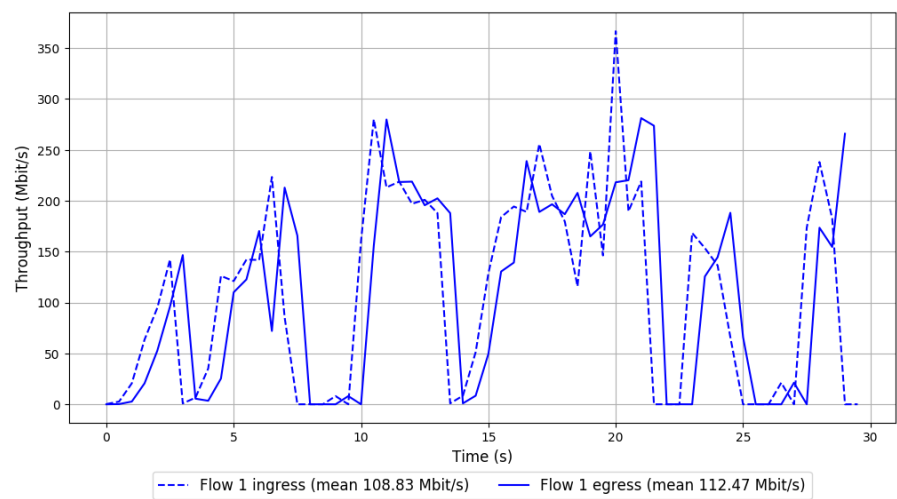
-- Flow 1:

Average throughput: 112.47 Mbit/s

95th percentile per-packet one-way delay: 143.497 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-11-23 22:18:59

End at: 2019-11-23 22:19:29

Local clock offset: 7.015 ms

Remote clock offset: 6.734 ms

Below is generated by plot.py at 2019-11-24 03:03:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 303.16 Mbit/s

95th percentile per-packet one-way delay: 86.750 ms

Loss rate: 0.70%

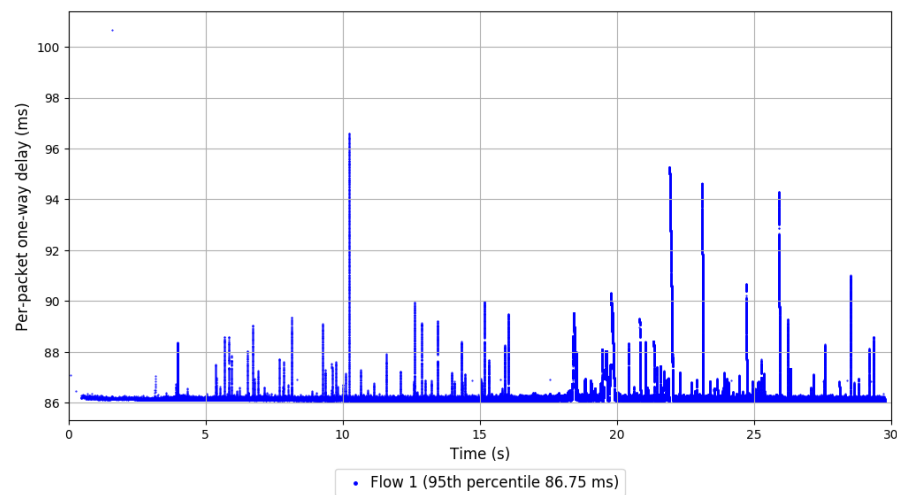
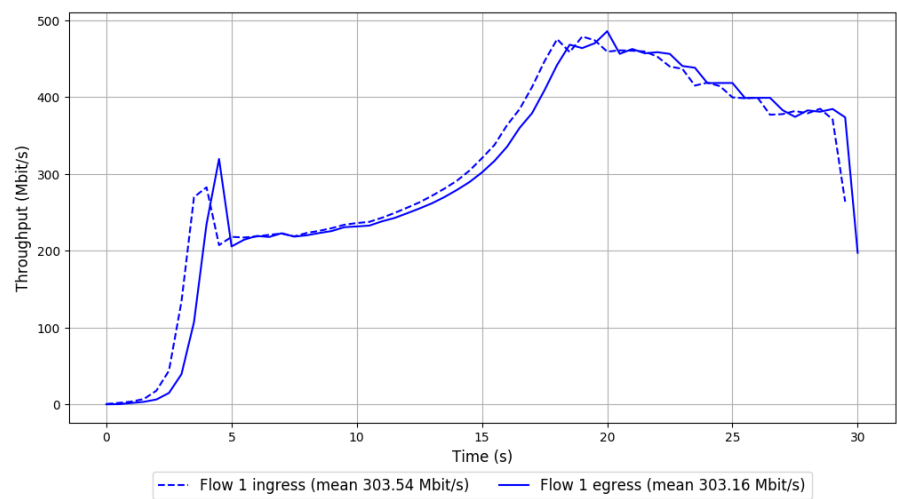
-- Flow 1:

Average throughput: 303.16 Mbit/s

95th percentile per-packet one-way delay: 86.750 ms

Loss rate: 0.70%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-11-23 22:54:34

End at: 2019-11-23 22:55:04

Local clock offset: 14.851 ms

Remote clock offset: 15.007 ms

Below is generated by plot.py at 2019-11-24 03:03:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 346.66 Mbit/s

95th percentile per-packet one-way delay: 86.474 ms

Loss rate: 0.63%

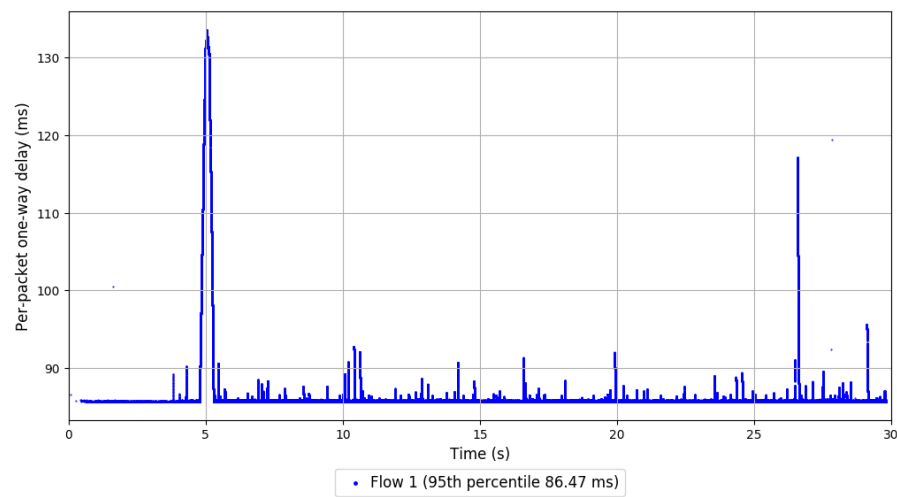
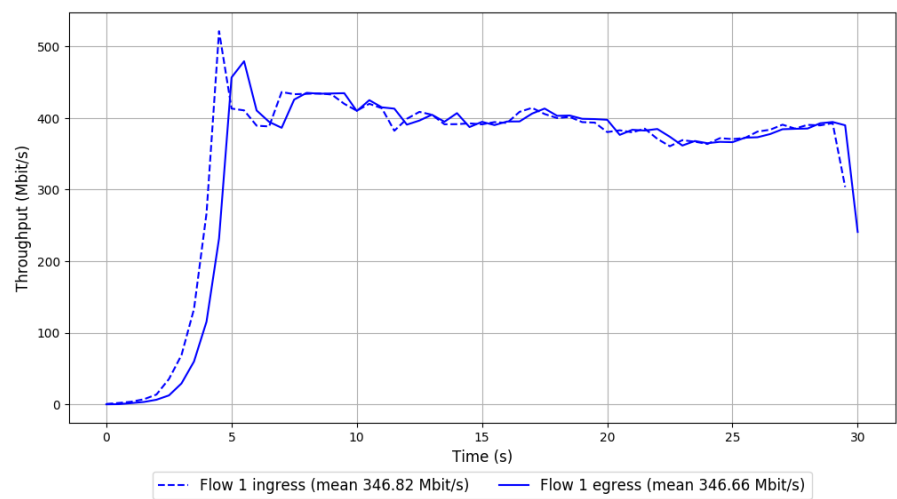
-- Flow 1:

Average throughput: 346.66 Mbit/s

95th percentile per-packet one-way delay: 86.474 ms

Loss rate: 0.63%

Run 2: Report of PCC-Vivace — Data Link

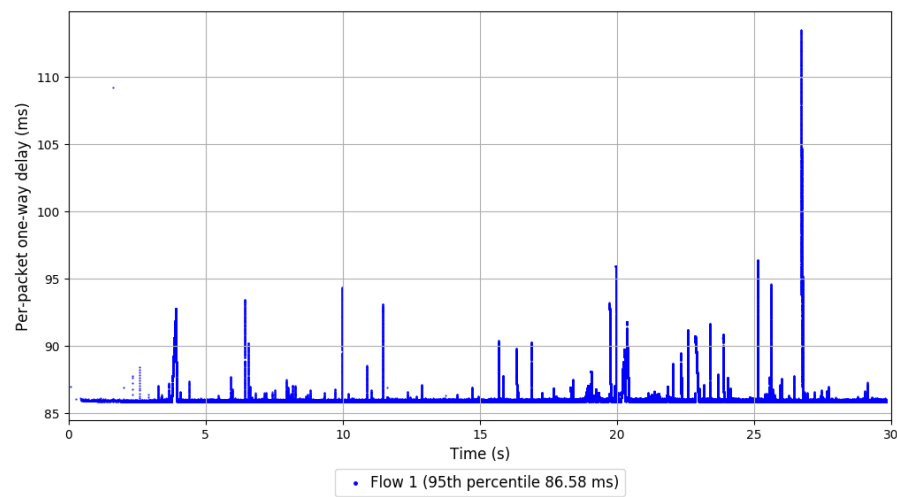
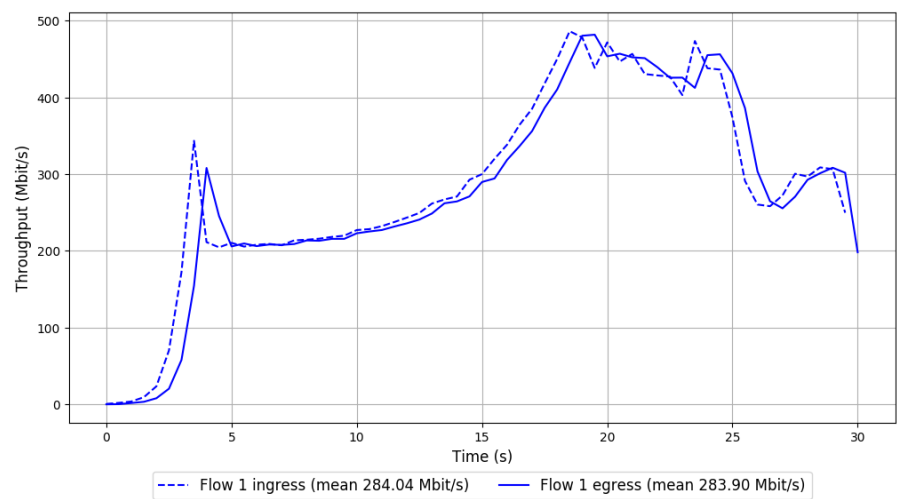


Run 3: Statistics of PCC-Vivace

Start at: 2019-11-23 23:29:40
End at: 2019-11-23 23:30:10
Local clock offset: 12.189 ms
Remote clock offset: 12.354 ms

Below is generated by plot.py at 2019-11-24 03:03:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 283.90 Mbit/s
95th percentile per-packet one-way delay: 86.581 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 283.90 Mbit/s
95th percentile per-packet one-way delay: 86.581 ms
Loss rate: 0.63%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-11-24 00:04:32

End at: 2019-11-24 00:05:02

Local clock offset: 5.804 ms

Remote clock offset: 5.986 ms

Below is generated by plot.py at 2019-11-24 03:03:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 264.52 Mbit/s

95th percentile per-packet one-way delay: 85.939 ms

Loss rate: 0.81%

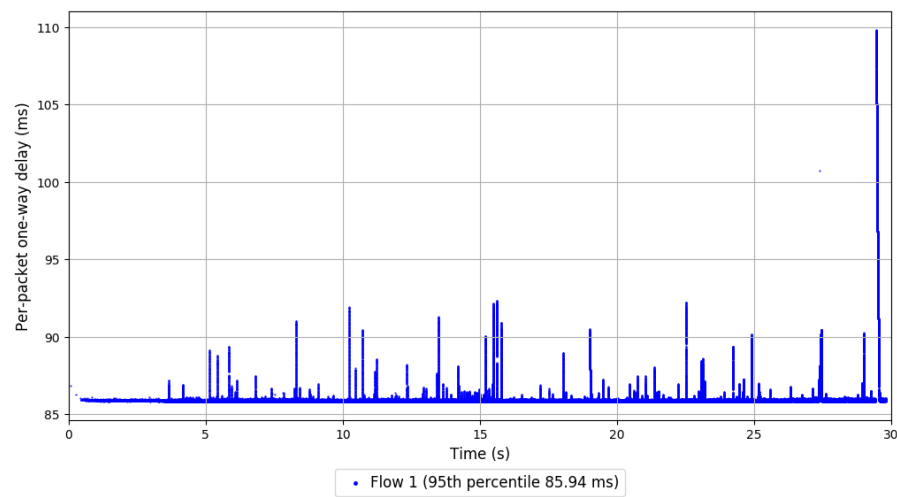
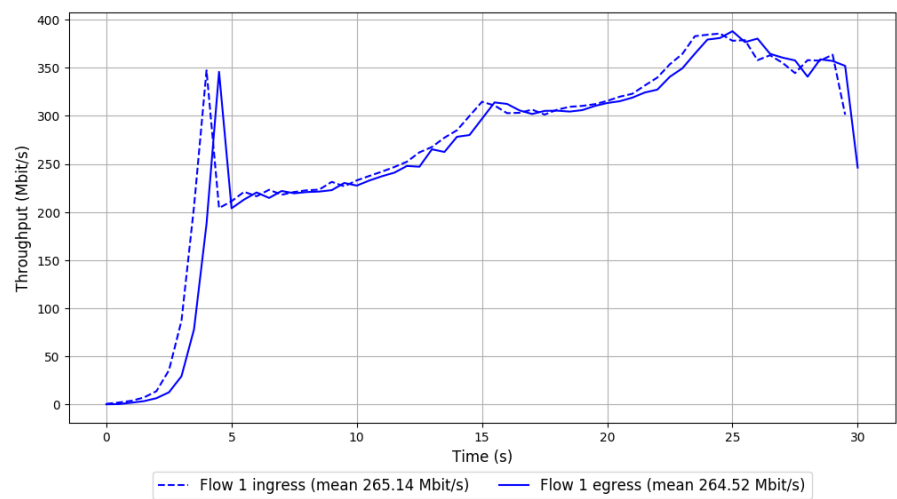
-- Flow 1:

Average throughput: 264.52 Mbit/s

95th percentile per-packet one-way delay: 85.939 ms

Loss rate: 0.81%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-11-24 00:39:34

End at: 2019-11-24 00:40:04

Local clock offset: 2.076 ms

Remote clock offset: 1.928 ms

Below is generated by plot.py at 2019-11-24 03:03:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 344.12 Mbit/s

95th percentile per-packet one-way delay: 87.844 ms

Loss rate: 0.66%

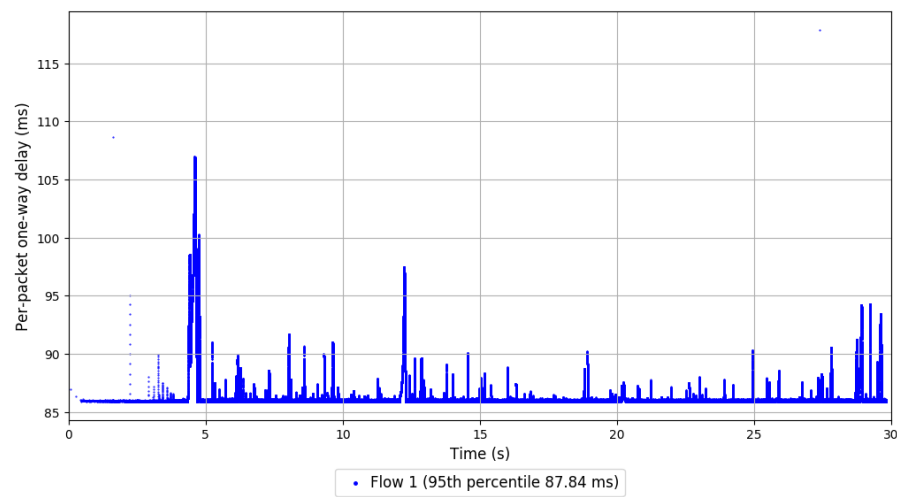
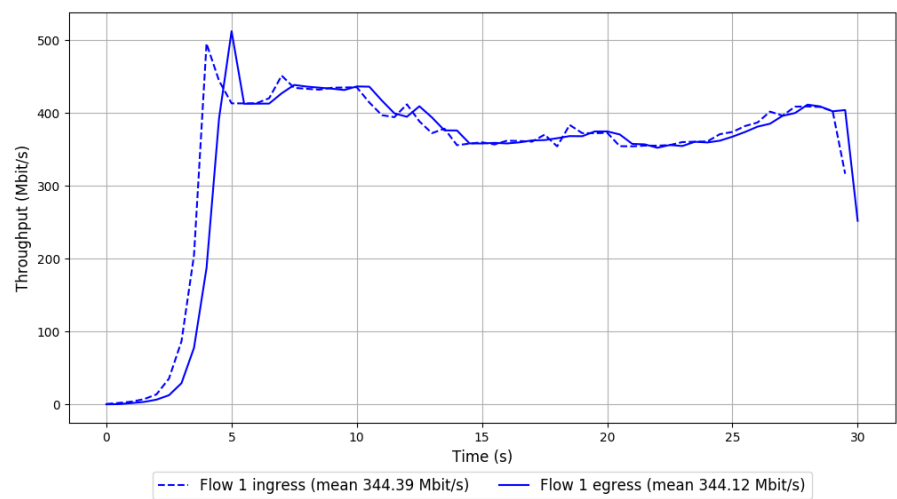
-- Flow 1:

Average throughput: 344.12 Mbit/s

95th percentile per-packet one-way delay: 87.844 ms

Loss rate: 0.66%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

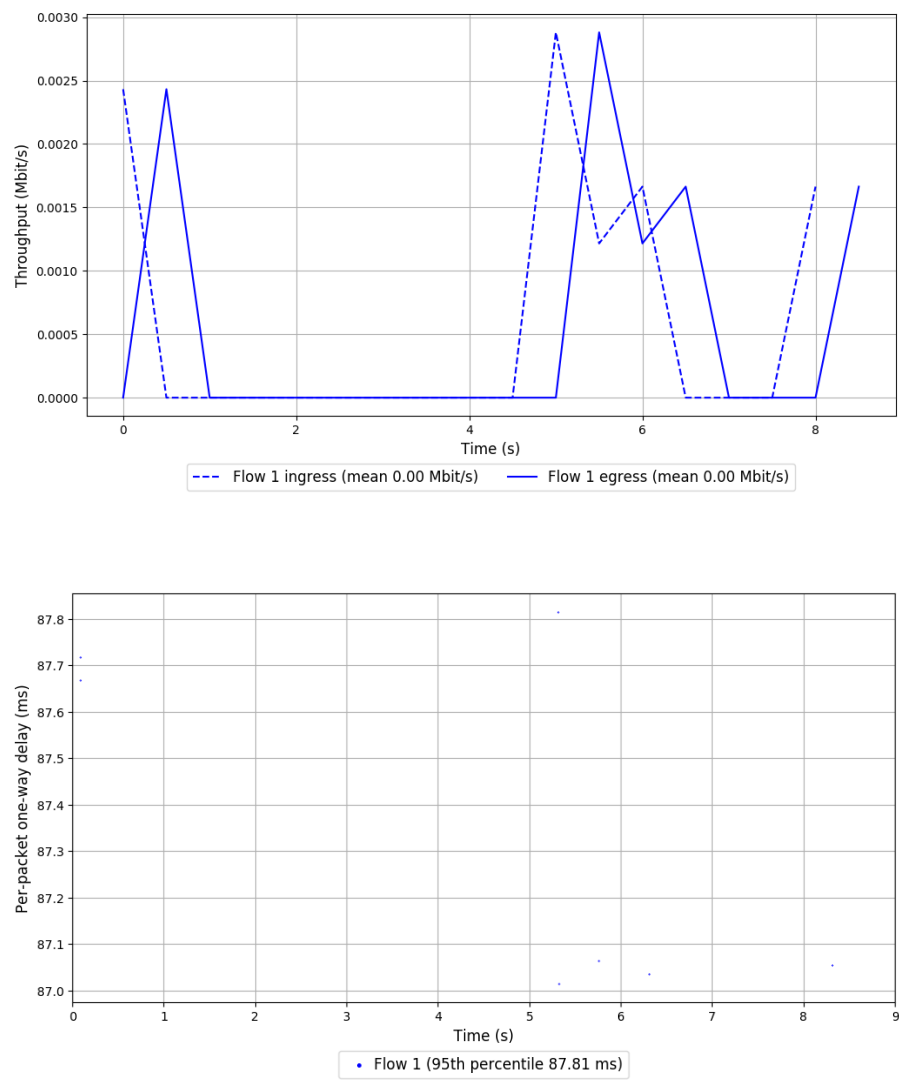
Start at: 2019-11-23 22:13:56

End at: 2019-11-23 22:14:26

Local clock offset: 5.74 ms

Remote clock offset: 4.791 ms

Run 1: Report of WebRTC media — Data Link

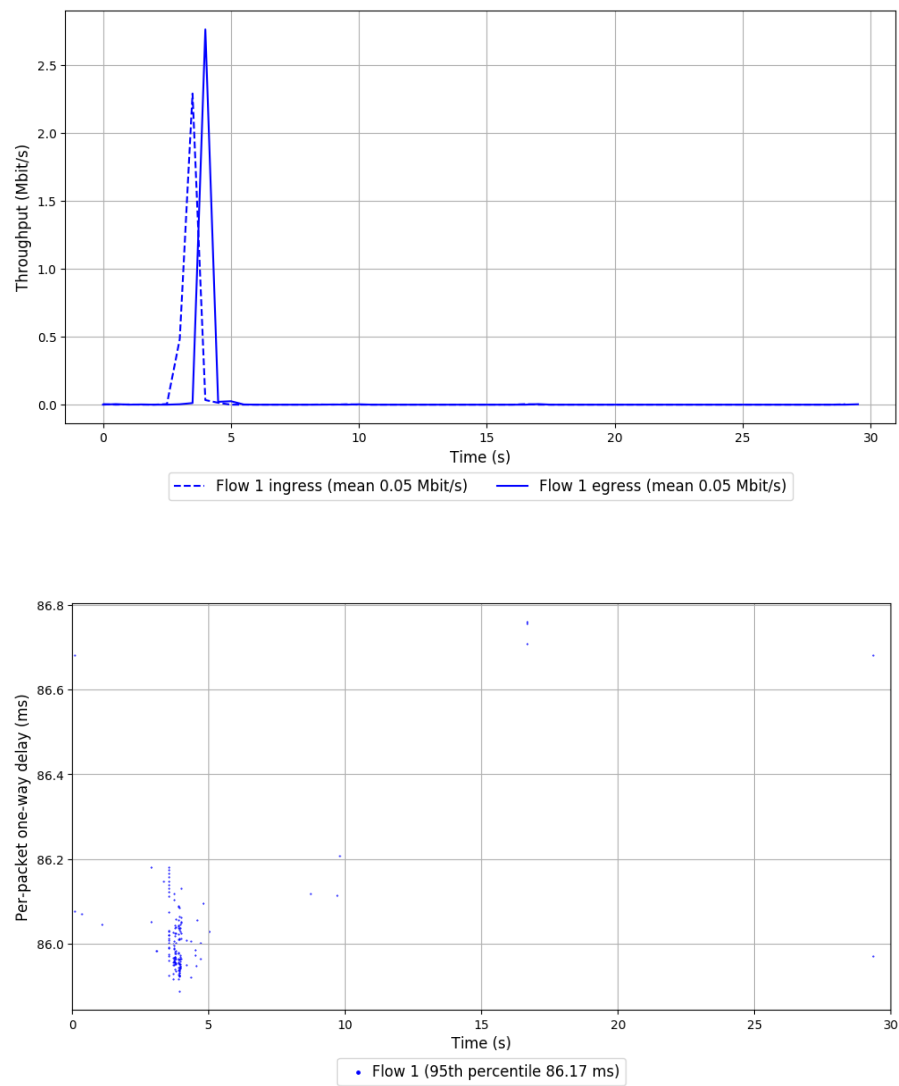


Run 2: Statistics of WebRTC media

Start at: 2019-11-23 22:49:01
End at: 2019-11-23 22:49:31
Local clock offset: 15.117 ms
Remote clock offset: 15.207 ms

Below is generated by plot.py at 2019-11-24 03:03:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.174 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.174 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-11-23 23:24:07

End at: 2019-11-23 23:24:37

Local clock offset: 16.542 ms

Remote clock offset: 16.42 ms

Below is generated by plot.py at 2019-11-24 03:03:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.589 ms

Loss rate: 0.00%

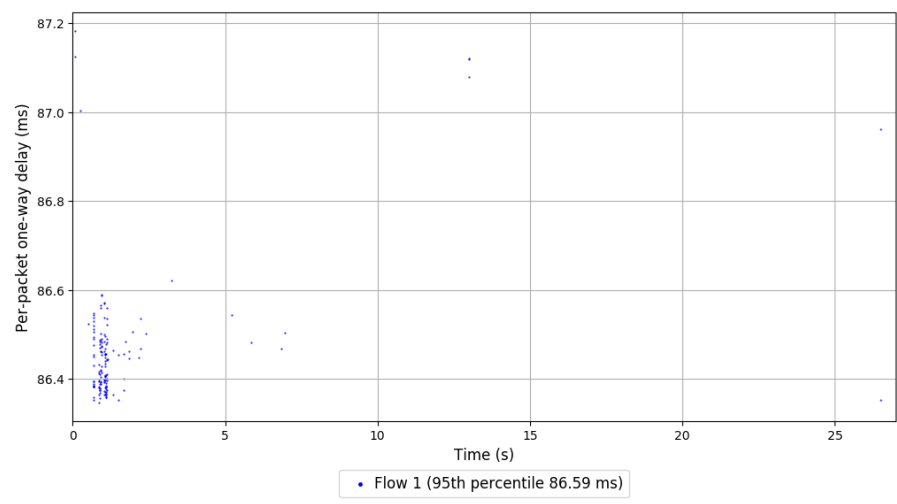
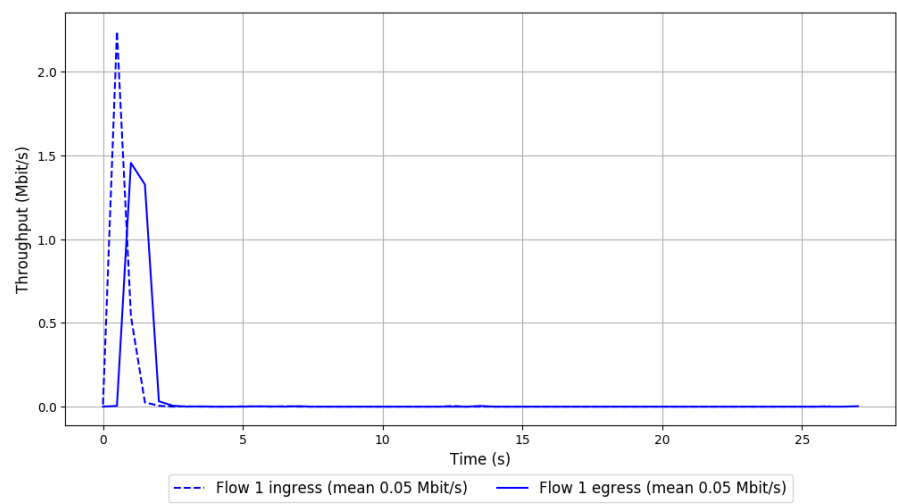
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.589 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

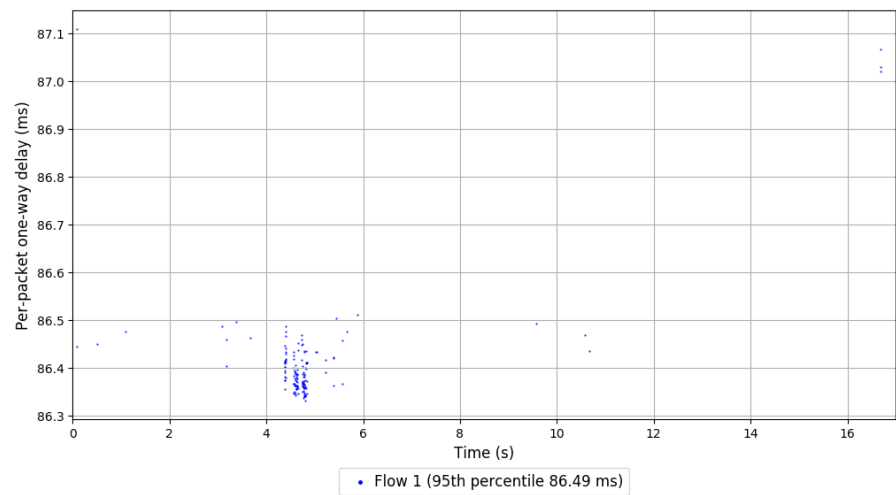
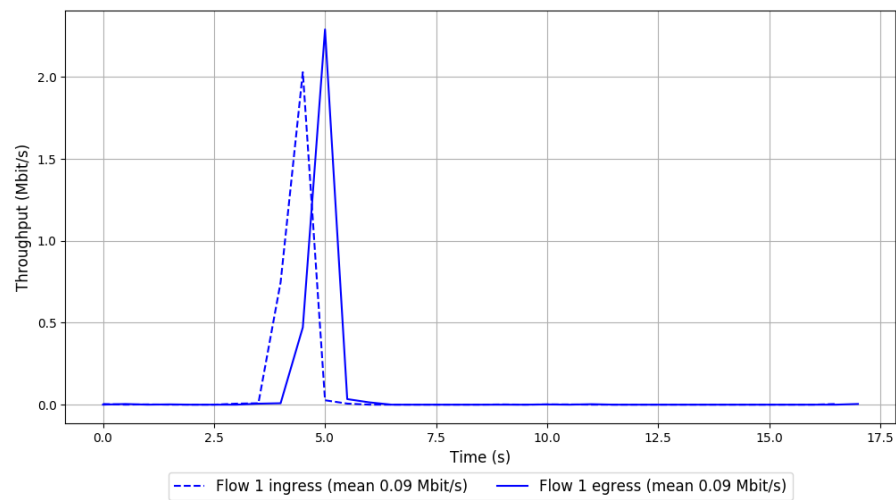
Start at: 2019-11-23 23:59:00

End at: 2019-11-23 23:59:30

Local clock offset: 8.044 ms

Remote clock offset: 7.837 ms

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-11-24 00:34:02

End at: 2019-11-24 00:34:32

Local clock offset: 3.106 ms

Remote clock offset: 2.973 ms

Run 5: Report of WebRTC media — Data Link

