

## Pantheon Report

Generated at 2019-11-24 14:50:05 (UTC).

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

Repeated the test of 24 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

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

### System info:

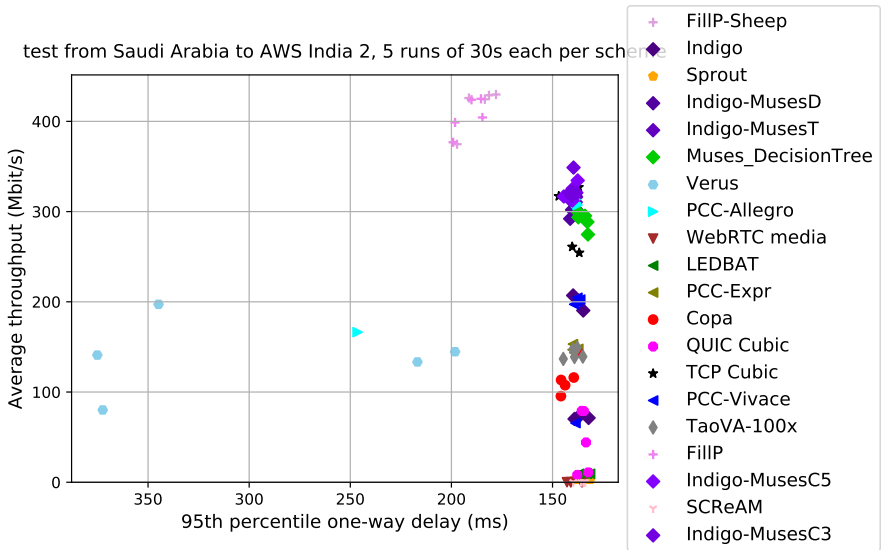
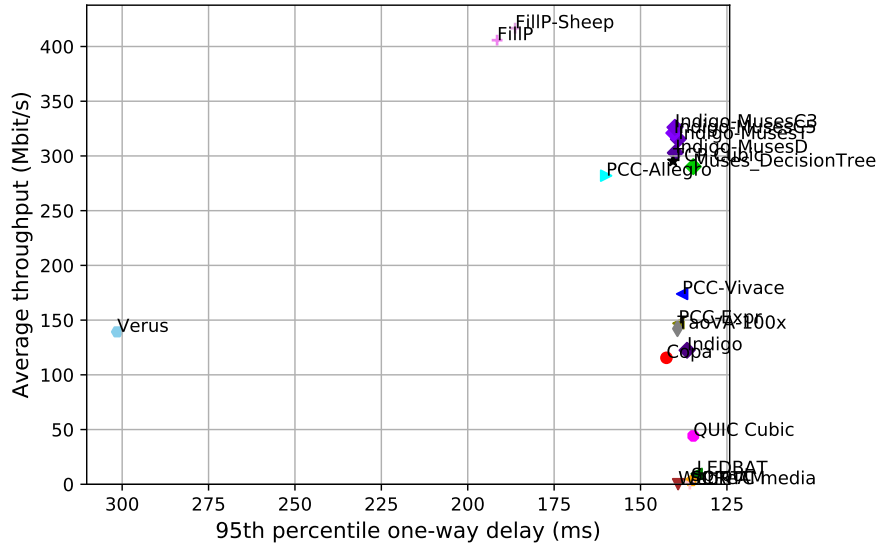
```
Linux 4.15.0-1041-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 11c9498ecb1596b02ccd896791a02d03172af7ed
M helpers/__init__.pyc
M helpers/context.pyc
M helpers/utls.pyc
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-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 Saudi Arabia to AWS India 2, 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	0	N/A	N/A	N/A
Copa	5	115.55	142.50	0.85
TCP Cubic	5	295.28	140.58	0.79
FillP	5	405.78	191.50	1.43
FillP-Sheep	5	416.74	186.28	1.33
Indigo	5	122.45	136.55	0.60
Indigo-MusesC3	5	326.16	140.06	0.74
Indigo-MusesC5	5	320.97	140.38	0.78
Indigo-MusesD	5	302.86	139.95	0.74
Indigo-MusesT	5	315.38	139.07	0.70
LEDBAT	5	9.50	133.78	1.29
Muses_DecisionTree	5	290.25	134.73	0.70
Muses_DecisionTreeH0	0	N/A	N/A	N/A
Muses_DecisionTreeR0	0	N/A	N/A	N/A
PCC-Allegro	5	281.96	159.94	1.07
PCC-Expr	5	147.04	139.04	0.83
QUIC Cubic	5	44.26	134.73	0.74
SCReAM	5	0.22	135.72	0.61
Sprout	5	3.06	135.34	0.88
TaoVA-100x	5	142.20	139.32	0.70
TCP Vegas	0	N/A	N/A	N/A
Verus	5	139.26	301.45	1.63
PCC-Vivace	5	173.92	137.97	1.04
WebRTC media	5	0.05	139.12	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-11-24 11:52:27

End at: 2019-11-24 11:52:57

Local clock offset: 0.141 ms

Remote clock offset: -39.765 ms

Run 1: Report of TCP BBR — Data Link

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Run 2: Statistics of TCP BBR

Start at: 2019-11-24 12:23:26

End at: 2019-11-24 12:23:56

Local clock offset: -3.784 ms

Remote clock offset: -43.7 ms

Run 2: Report of TCP BBR — Data Link

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Figure is missing



Run 3: Statistics of TCP BBR

Start at: 2019-11-24 12:54:23

End at: 2019-11-24 12:54:53

Local clock offset: -0.445 ms

Remote clock offset: -40.555 ms

Run 3: Report of TCP BBR — Data Link

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Run 4: Statistics of TCP BBR

Start at: 2019-11-24 13:25:34

End at: 2019-11-24 13:26:04

Local clock offset: -2.795 ms

Remote clock offset: -38.798 ms

Run 4: Report of TCP BBR — Data Link

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Figure is missing

Run 5: Statistics of TCP BBR

Start at: 2019-11-24 13:56:35

End at: 2019-11-24 13:57:05

Local clock offset: -0.544 ms

Remote clock offset: -36.975 ms

Run 5: Report of TCP BBR — Data Link

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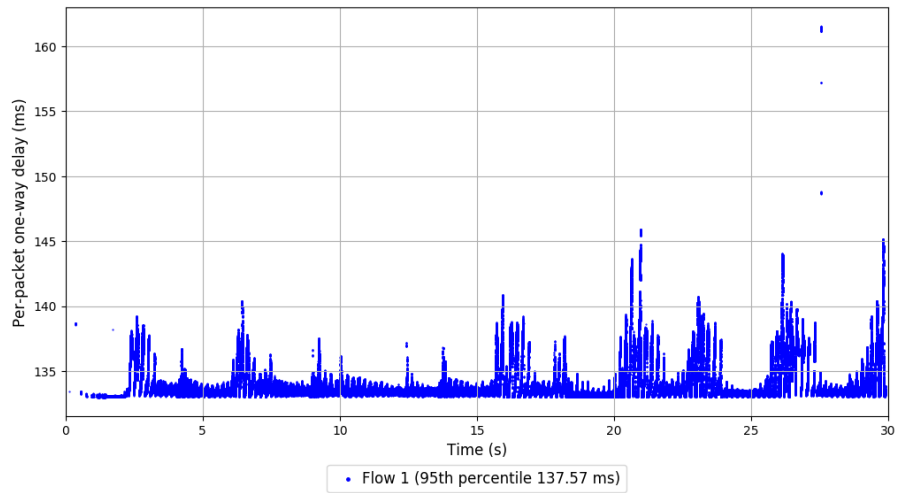
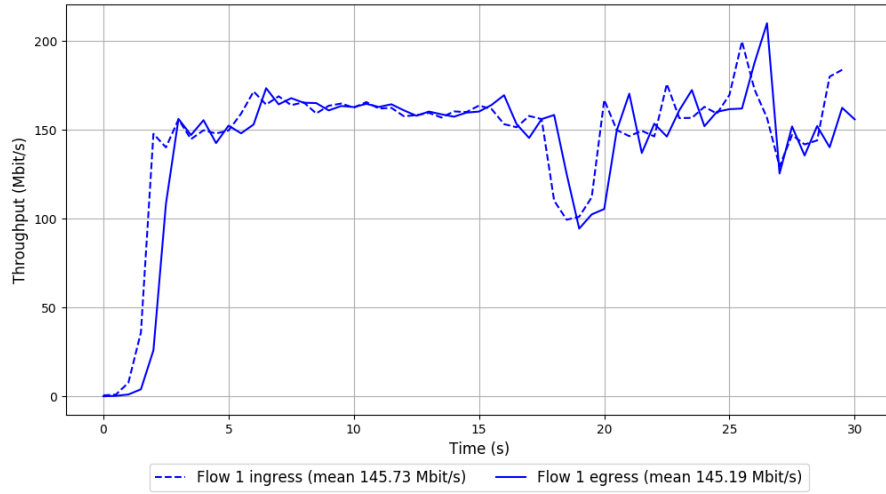
Figure is missing

Run 1: Statistics of Copa

Start at: 2019-11-24 11:47:16  
End at: 2019-11-24 11:47:46  
Local clock offset: -0.948 ms  
Remote clock offset: -39.419 ms

# Below is generated by plot.py at 2019-11-24 14:22:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 145.19 Mbit/s  
95th percentile per-packet one-way delay: 137.575 ms  
Loss rate: 0.95%  
-- Flow 1:  
Average throughput: 145.19 Mbit/s  
95th percentile per-packet one-way delay: 137.575 ms  
Loss rate: 0.95%

### Run 1: Report of Copa — Data Link



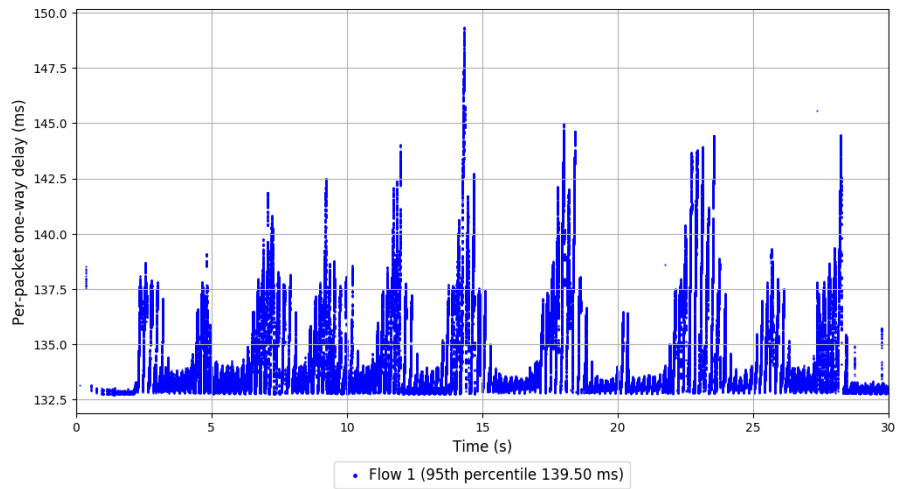
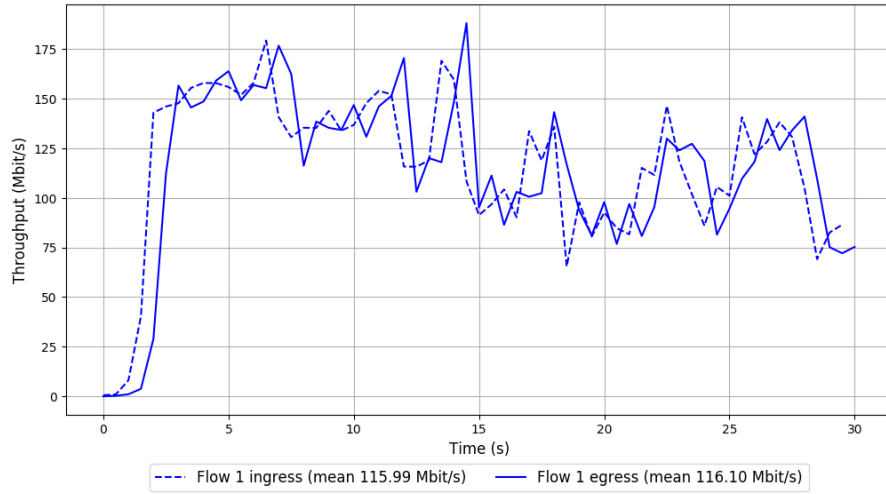


Run 2: Statistics of Copa

Start at: 2019-11-24 12:18:20  
End at: 2019-11-24 12:18:50  
Local clock offset: -2.262 ms  
Remote clock offset: -39.489 ms

# Below is generated by plot.py at 2019-11-24 14:22:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 116.10 Mbit/s  
95th percentile per-packet one-way delay: 139.505 ms  
Loss rate: 0.55%  
-- Flow 1:  
Average throughput: 116.10 Mbit/s  
95th percentile per-packet one-way delay: 139.505 ms  
Loss rate: 0.55%

## Run 2: Report of Copa — Data Link

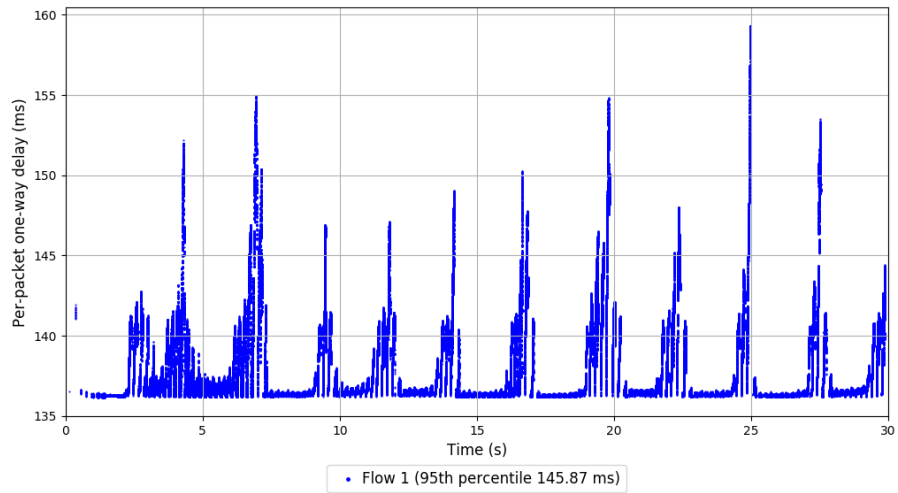
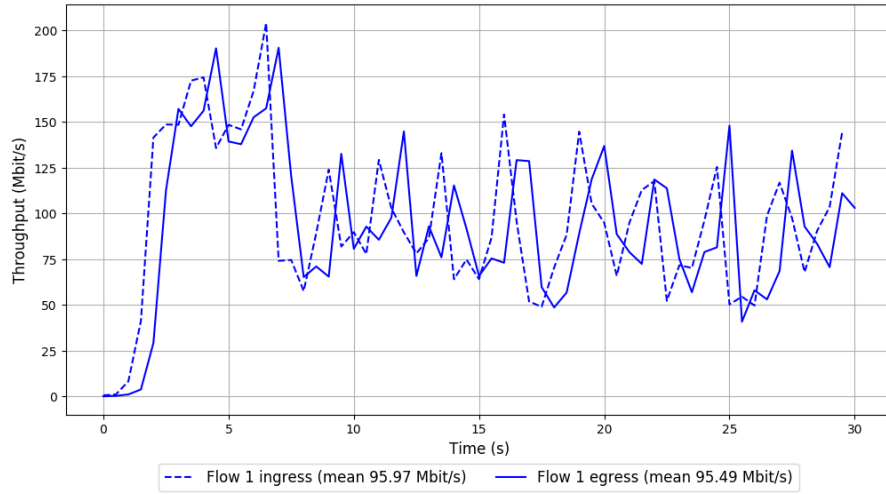


Run 3: Statistics of Copa

Start at: 2019-11-24 12:49:17  
End at: 2019-11-24 12:49:47  
Local clock offset: -0.684 ms  
Remote clock offset: -40.527 ms

# Below is generated by plot.py at 2019-11-24 14:22:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.49 Mbit/s  
95th percentile per-packet one-way delay: 145.870 ms  
Loss rate: 1.17%  
-- Flow 1:  
Average throughput: 95.49 Mbit/s  
95th percentile per-packet one-way delay: 145.870 ms  
Loss rate: 1.17%

### Run 3: Report of Copa — Data Link

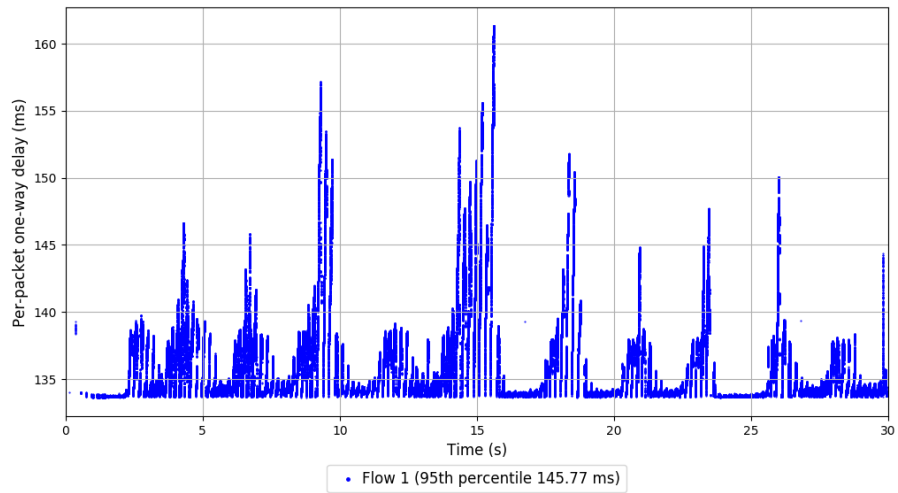
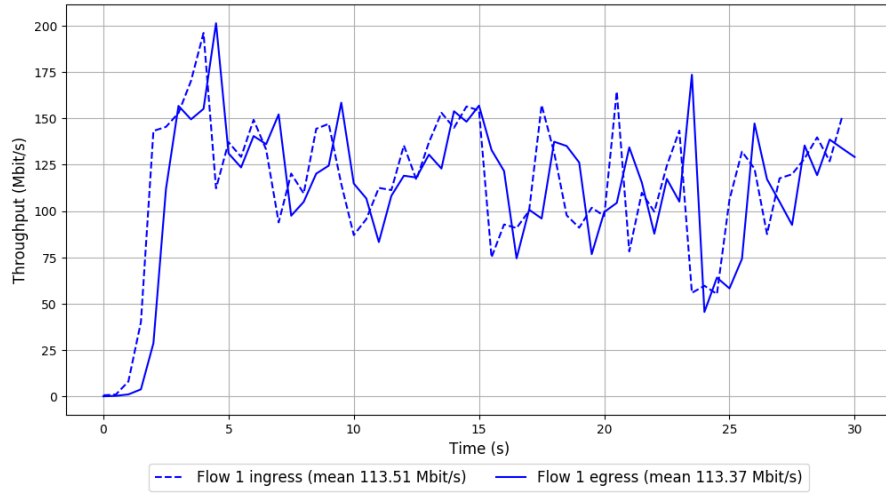


Run 4: Statistics of Copa

Start at: 2019-11-24 13:20:28  
End at: 2019-11-24 13:20:58  
Local clock offset: -0.401 ms  
Remote clock offset: -37.182 ms

# Below is generated by plot.py at 2019-11-24 14:22:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 113.37 Mbit/s  
95th percentile per-packet one-way delay: 145.770 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 113.37 Mbit/s  
95th percentile per-packet one-way delay: 145.770 ms  
Loss rate: 0.77%

### Run 4: Report of Copa — Data Link

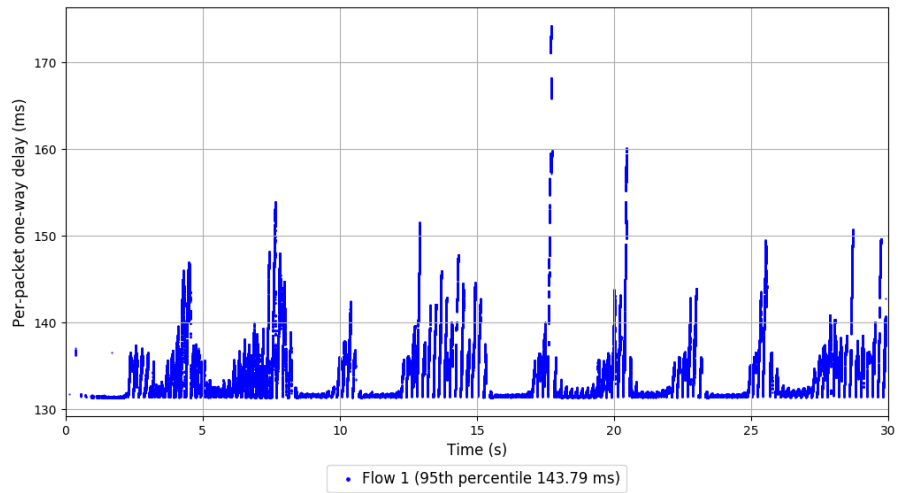
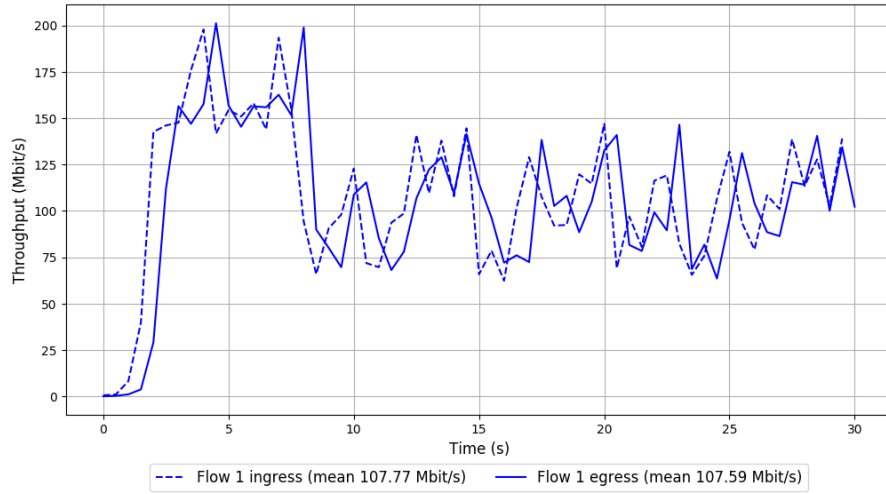


Run 5: Statistics of Copa

Start at: 2019-11-24 13:51:28  
End at: 2019-11-24 13:51:58  
Local clock offset: -3.175 ms  
Remote clock offset: -37.635 ms

# Below is generated by plot.py at 2019-11-24 14:22:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 107.59 Mbit/s  
95th percentile per-packet one-way delay: 143.788 ms  
Loss rate: 0.82%  
-- Flow 1:  
Average throughput: 107.59 Mbit/s  
95th percentile per-packet one-way delay: 143.788 ms  
Loss rate: 0.82%

### Run 5: Report of Copa — Data Link



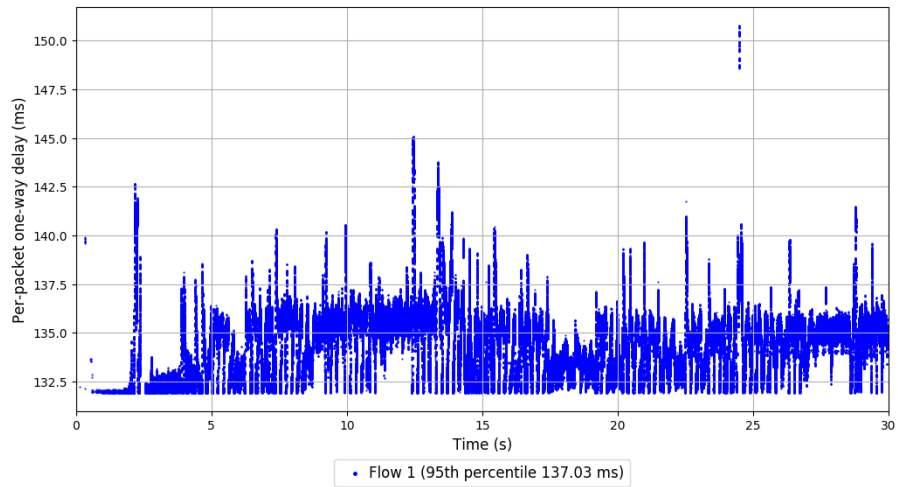
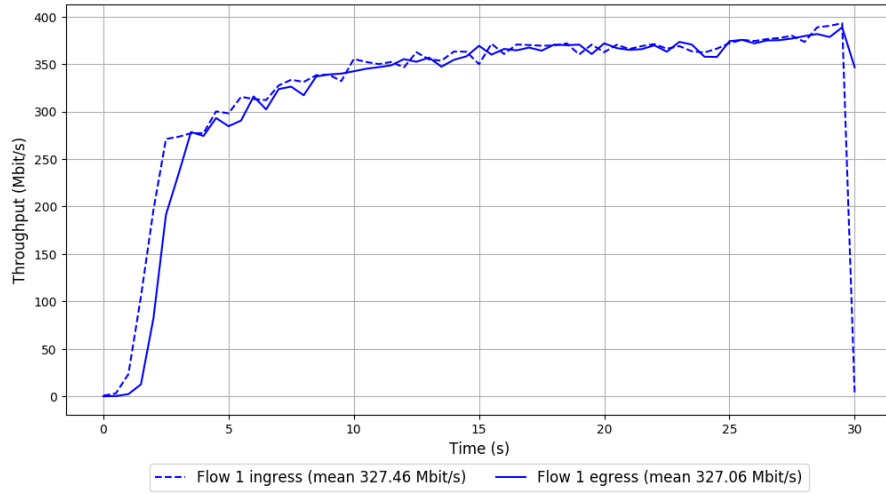


Run 1: Statistics of TCP Cubic

Start at: 2019-11-24 12:01:26  
End at: 2019-11-24 12:01:56  
Local clock offset: -3.37 ms  
Remote clock offset: -40.258 ms

# Below is generated by plot.py at 2019-11-24 14:22:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 327.06 Mbit/s  
95th percentile per-packet one-way delay: 137.029 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 327.06 Mbit/s  
95th percentile per-packet one-way delay: 137.029 ms  
Loss rate: 0.79%

### Run 1: Report of TCP Cubic — Data Link

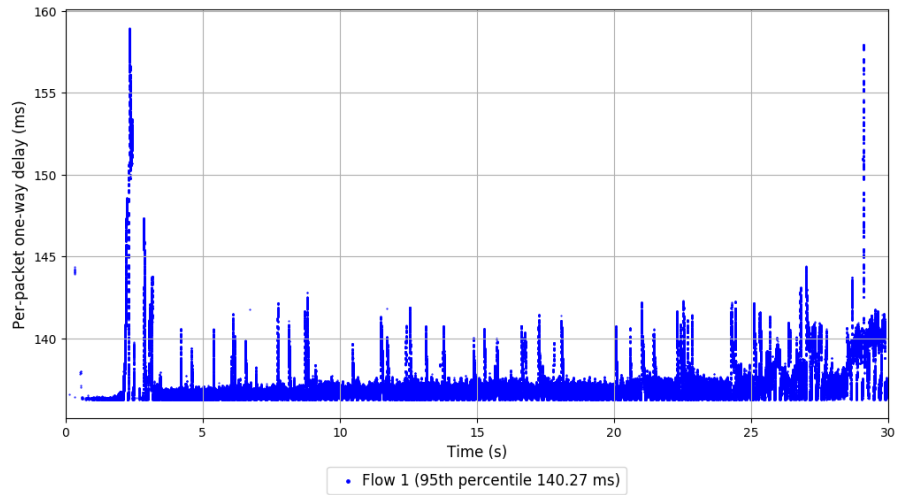
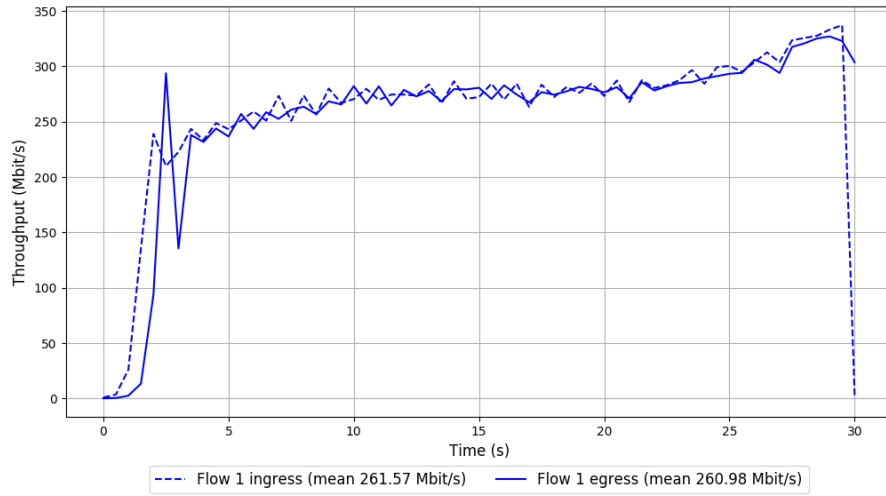


Run 2: Statistics of TCP Cubic

Start at: 2019-11-24 12:32:18  
End at: 2019-11-24 12:32:48  
Local clock offset: -0.652 ms  
Remote clock offset: -41.053 ms

# Below is generated by plot.py at 2019-11-24 14:22:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 260.98 Mbit/s  
95th percentile per-packet one-way delay: 140.268 ms  
Loss rate: 0.86%  
-- Flow 1:  
Average throughput: 260.98 Mbit/s  
95th percentile per-packet one-way delay: 140.268 ms  
Loss rate: 0.86%

## Run 2: Report of TCP Cubic — Data Link

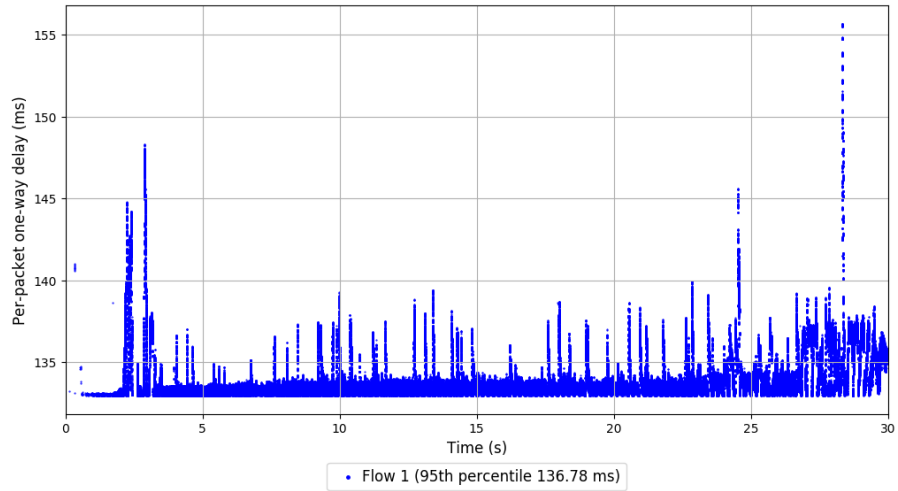
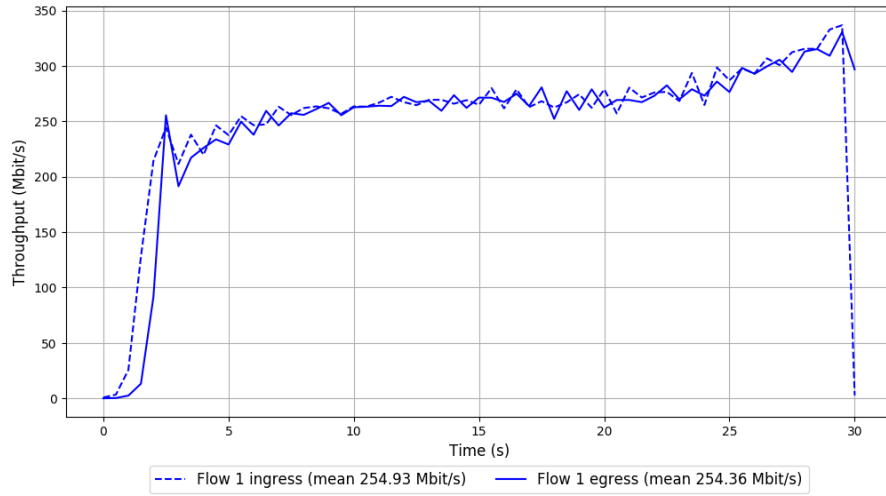


Run 3: Statistics of TCP Cubic

Start at: 2019-11-24 13:03:23  
End at: 2019-11-24 13:03:54  
Local clock offset: -1.959 ms  
Remote clock offset: -38.462 ms

# Below is generated by plot.py at 2019-11-24 14:22:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 254.36 Mbit/s  
95th percentile per-packet one-way delay: 136.784 ms  
Loss rate: 0.87%  
-- Flow 1:  
Average throughput: 254.36 Mbit/s  
95th percentile per-packet one-way delay: 136.784 ms  
Loss rate: 0.87%

### Run 3: Report of TCP Cubic — Data Link

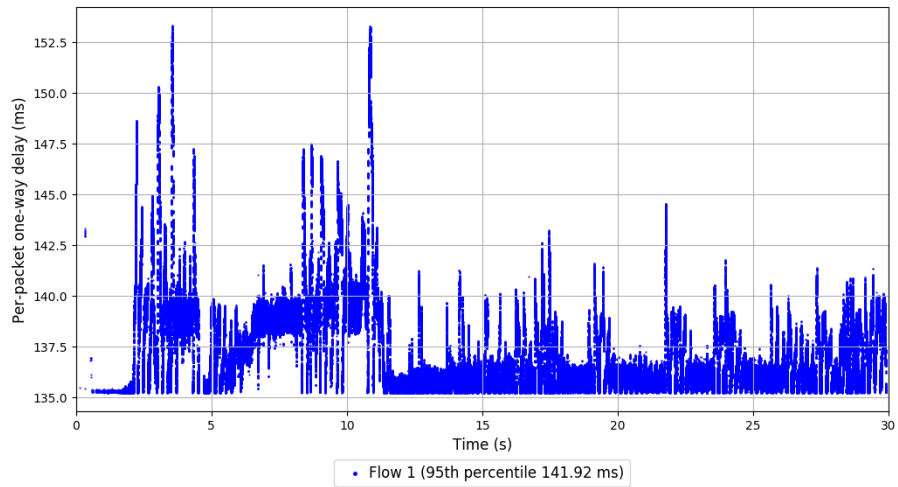
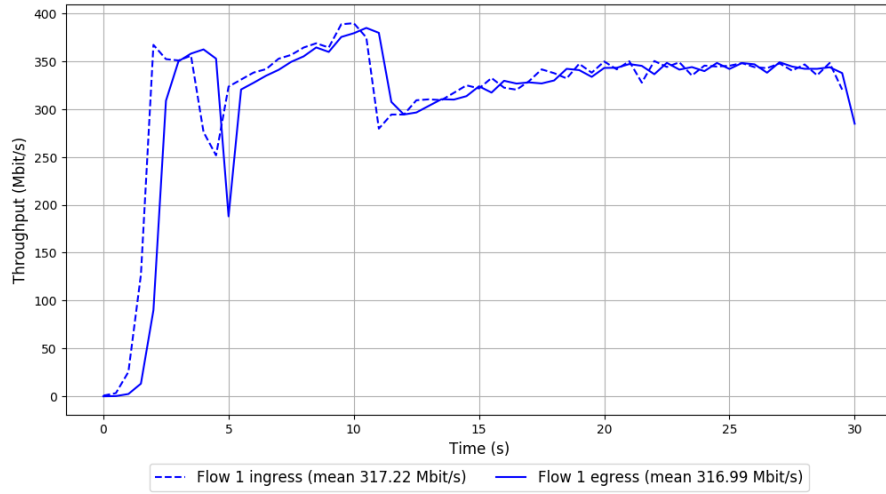


Run 4: Statistics of TCP Cubic

Start at: 2019-11-24 13:34:26  
End at: 2019-11-24 13:34:56  
Local clock offset: 0.305 ms  
Remote clock offset: -38.069 ms

# Below is generated by plot.py at 2019-11-24 14:24:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 316.99 Mbit/s  
95th percentile per-packet one-way delay: 141.923 ms  
Loss rate: 0.71%  
-- Flow 1:  
Average throughput: 316.99 Mbit/s  
95th percentile per-packet one-way delay: 141.923 ms  
Loss rate: 0.71%

### Run 4: Report of TCP Cubic — Data Link



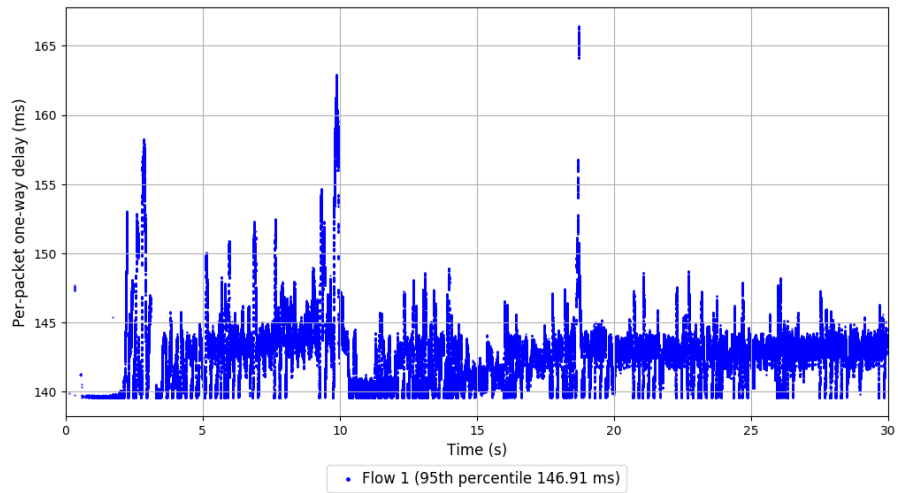
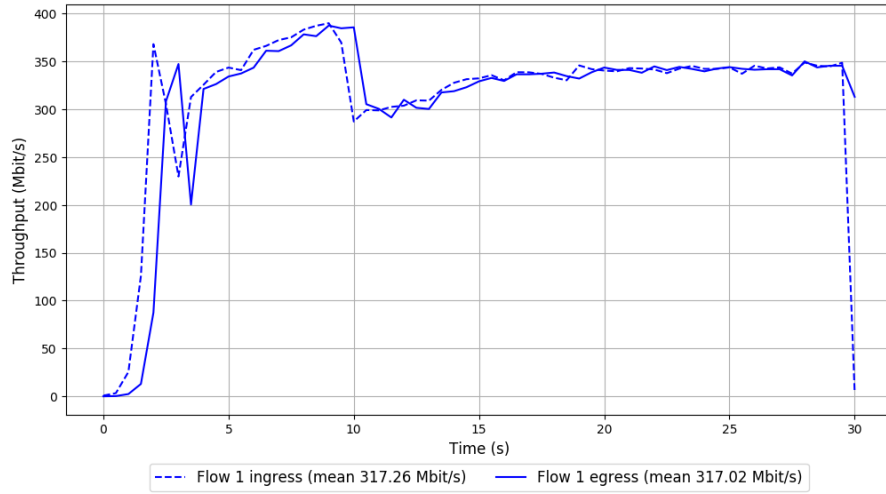


Run 5: Statistics of TCP Cubic

Start at: 2019-11-24 14:05:27  
End at: 2019-11-24 14:05:57  
Local clock offset: 0.225 ms  
Remote clock offset: -42.609 ms

# Below is generated by plot.py at 2019-11-24 14:24:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 317.02 Mbit/s  
95th percentile per-packet one-way delay: 146.905 ms  
Loss rate: 0.72%  
-- Flow 1:  
Average throughput: 317.02 Mbit/s  
95th percentile per-packet one-way delay: 146.905 ms  
Loss rate: 0.72%

### Run 5: Report of TCP Cubic — Data Link

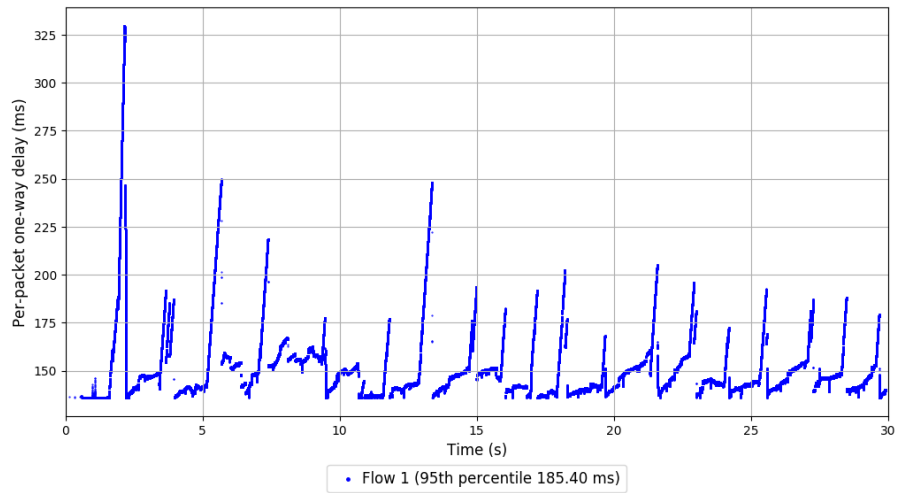
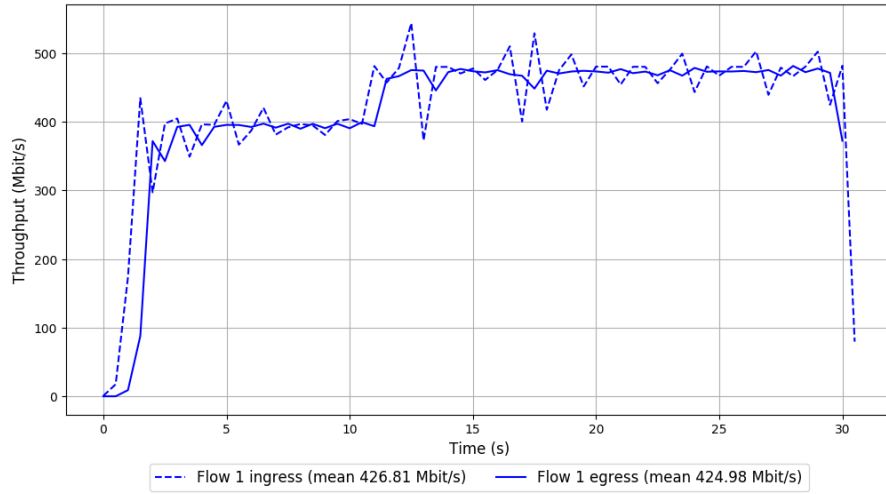


Run 1: Statistics of FillP

Start at: 2019-11-24 11:49:50  
End at: 2019-11-24 11:50:20  
Local clock offset: -0.563 ms  
Remote clock offset: -41.757 ms

# Below is generated by plot.py at 2019-11-24 14:27:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 424.98 Mbit/s  
95th percentile per-packet one-way delay: 185.398 ms  
Loss rate: 3.05%  
-- Flow 1:  
Average throughput: 424.98 Mbit/s  
95th percentile per-packet one-way delay: 185.398 ms  
Loss rate: 3.05%

### Run 1: Report of FillP — Data Link

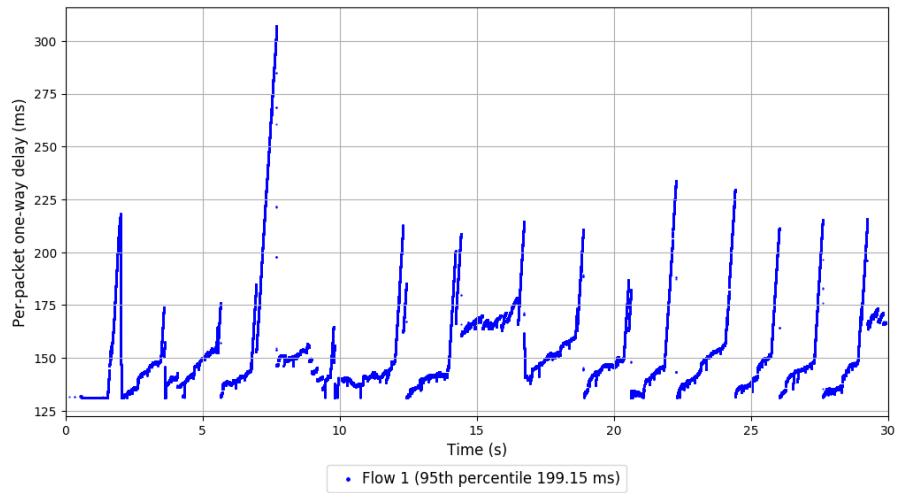
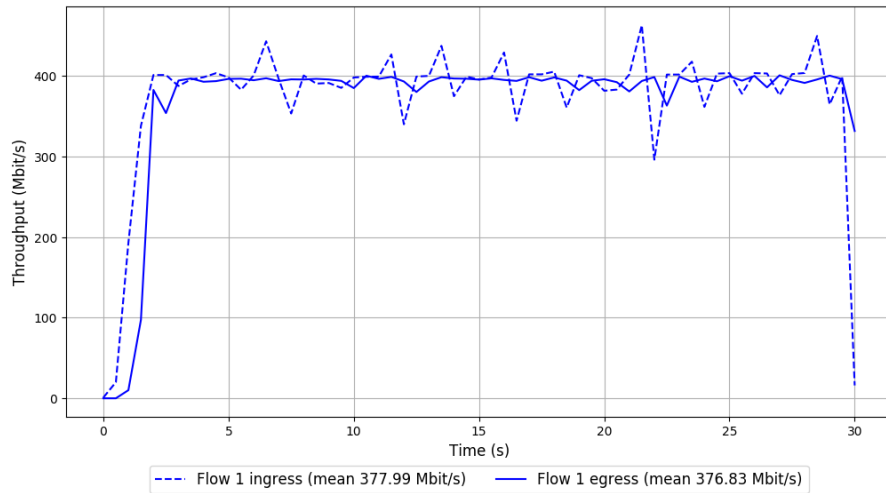


Run 2: Statistics of FillP

Start at: 2019-11-24 12:20:51  
End at: 2019-11-24 12:21:21  
Local clock offset: -2.93 ms  
Remote clock offset: -38.539 ms

# Below is generated by plot.py at 2019-11-24 14:27:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 376.83 Mbit/s  
95th percentile per-packet one-way delay: 199.153 ms  
Loss rate: 1.08%  
-- Flow 1:  
Average throughput: 376.83 Mbit/s  
95th percentile per-packet one-way delay: 199.153 ms  
Loss rate: 1.08%

## Run 2: Report of FillP — Data Link

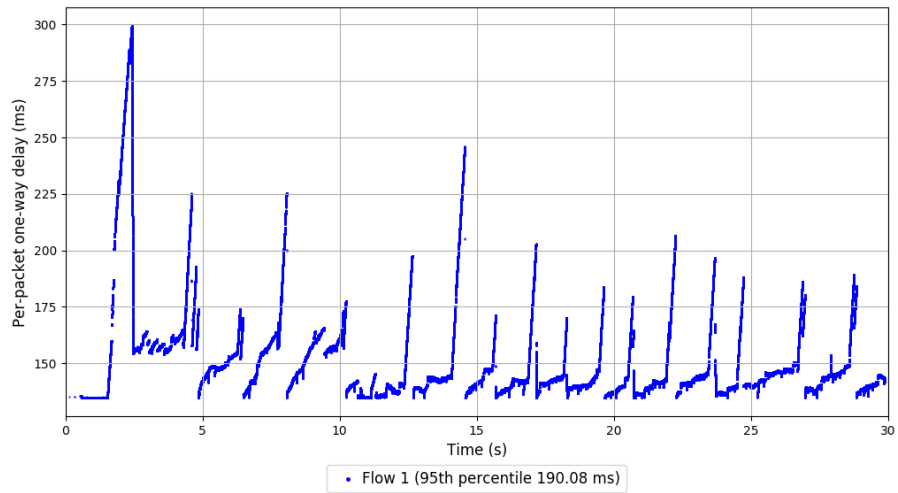
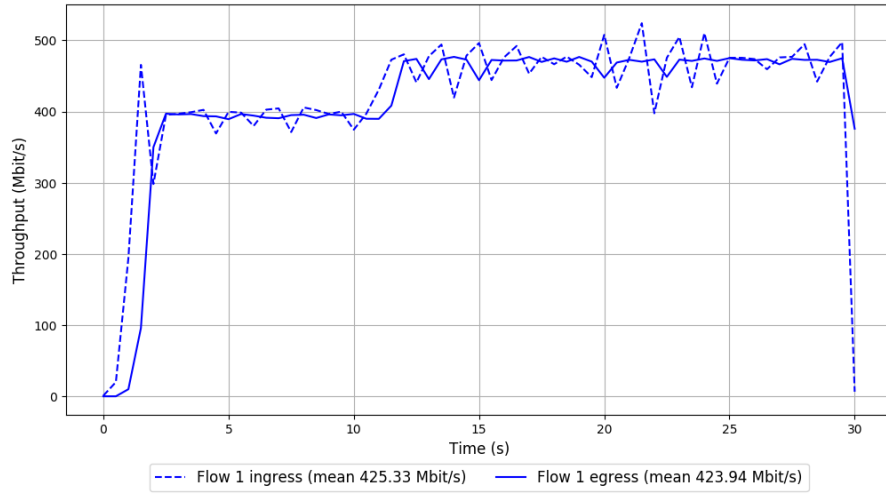


Run 3: Statistics of FillP

Start at: 2019-11-24 12:51:47  
End at: 2019-11-24 12:52:17  
Local clock offset: -2.655 ms  
Remote clock offset: -41.202 ms

# Below is generated by plot.py at 2019-11-24 14:27:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 423.94 Mbit/s  
95th percentile per-packet one-way delay: 190.084 ms  
Loss rate: 1.13%  
-- Flow 1:  
Average throughput: 423.94 Mbit/s  
95th percentile per-packet one-way delay: 190.084 ms  
Loss rate: 1.13%

### Run 3: Report of FillP — Data Link



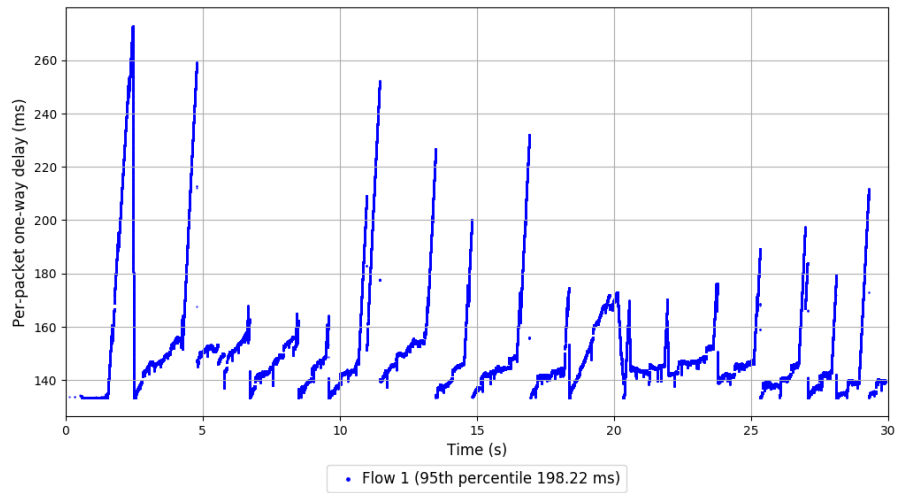
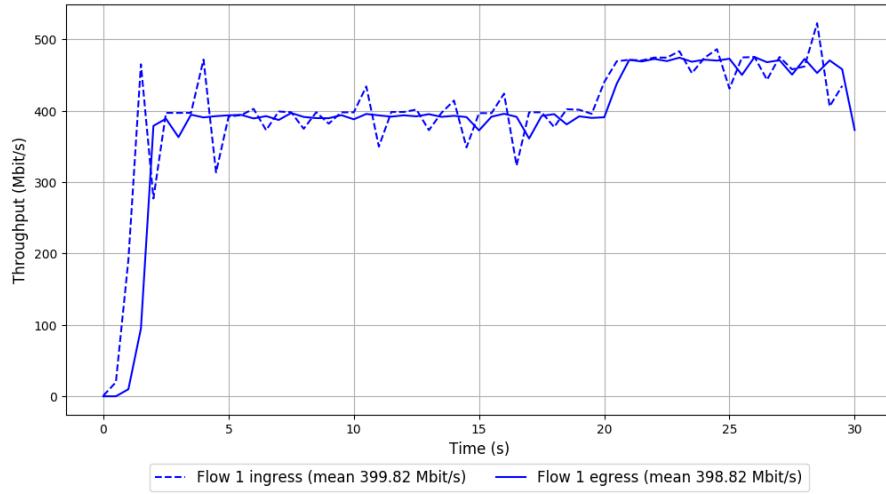


Run 4: Statistics of FillP

Start at: 2019-11-24 13:23:00  
End at: 2019-11-24 13:23:30  
Local clock offset: -1.386 ms  
Remote clock offset: -38.026 ms

# Below is generated by plot.py at 2019-11-24 14:27:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 398.82 Mbit/s  
95th percentile per-packet one-way delay: 198.215 ms  
Loss rate: 0.90%  
-- Flow 1:  
Average throughput: 398.82 Mbit/s  
95th percentile per-packet one-way delay: 198.215 ms  
Loss rate: 0.90%

### Run 4: Report of FillP — Data Link

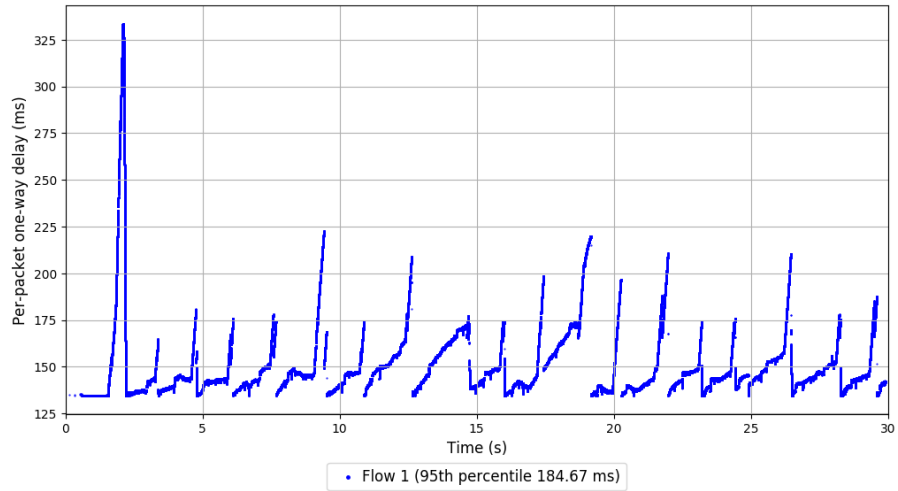
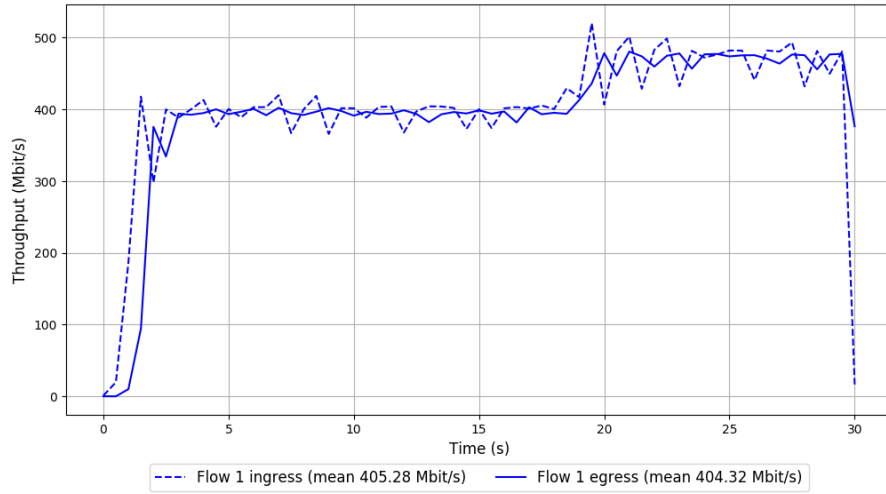


Run 5: Statistics of FillP

Start at: 2019-11-24 13:53:59  
End at: 2019-11-24 13:54:29  
Local clock offset: 0.383 ms  
Remote clock offset: -37.313 ms

# Below is generated by plot.py at 2019-11-24 14:27:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 404.32 Mbit/s  
95th percentile per-packet one-way delay: 184.667 ms  
Loss rate: 1.01%  
-- Flow 1:  
Average throughput: 404.32 Mbit/s  
95th percentile per-packet one-way delay: 184.667 ms  
Loss rate: 1.01%

### Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-11-24 11:41:55

End at: 2019-11-24 11:42:25

Local clock offset: -0.284 ms

Remote clock offset: -42.074 ms

# Below is generated by plot.py at 2019-11-24 14:28:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 425.88 Mbit/s

95th percentile per-packet one-way delay: 191.332 ms

Loss rate: 0.72%

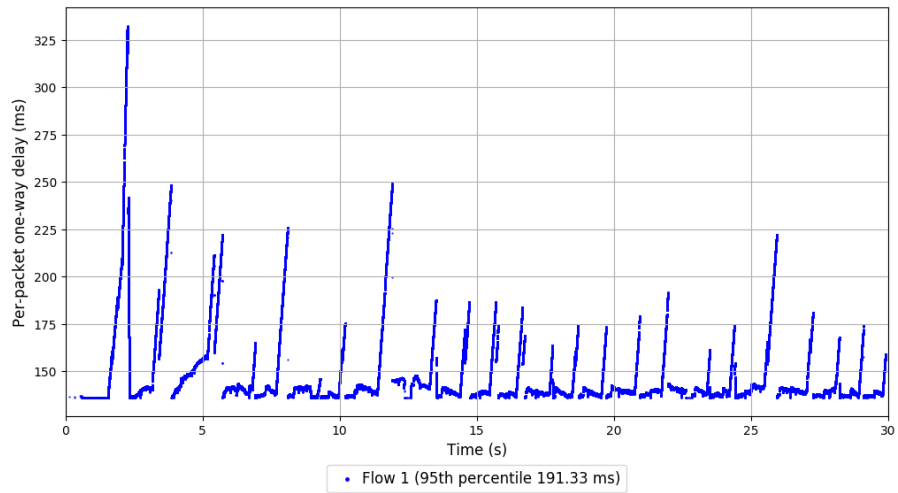
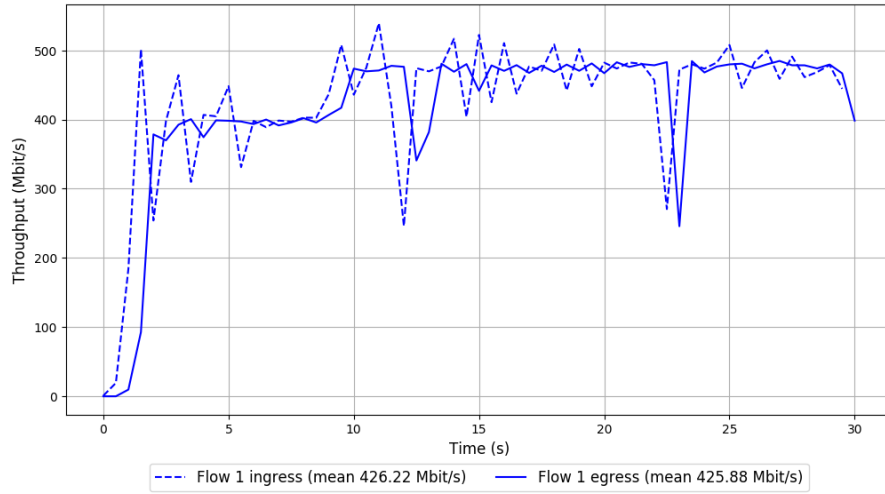
-- Flow 1:

Average throughput: 425.88 Mbit/s

95th percentile per-packet one-way delay: 191.332 ms

Loss rate: 0.72%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-11-24 12:12:57

End at: 2019-11-24 12:13:27

Local clock offset: -1.31 ms

Remote clock offset: -39.011 ms

# Below is generated by plot.py at 2019-11-24 14:30:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 429.78 Mbit/s

95th percentile per-packet one-way delay: 177.976 ms

Loss rate: 0.77%

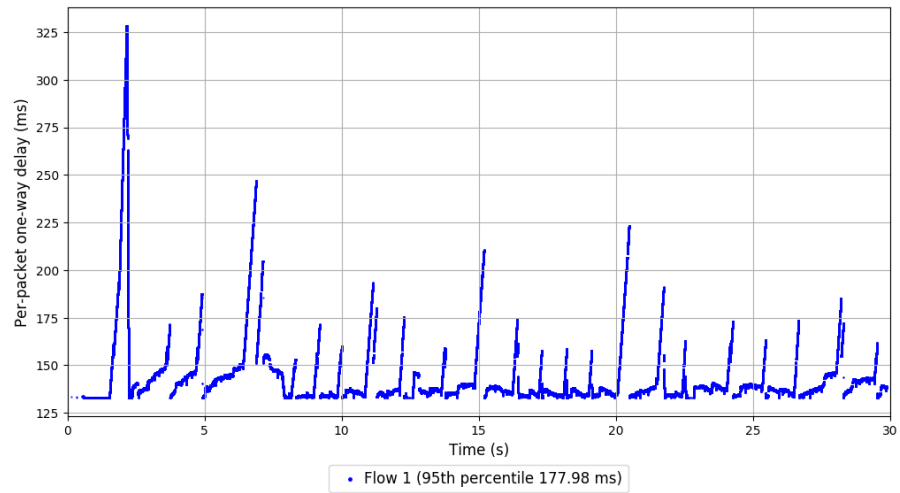
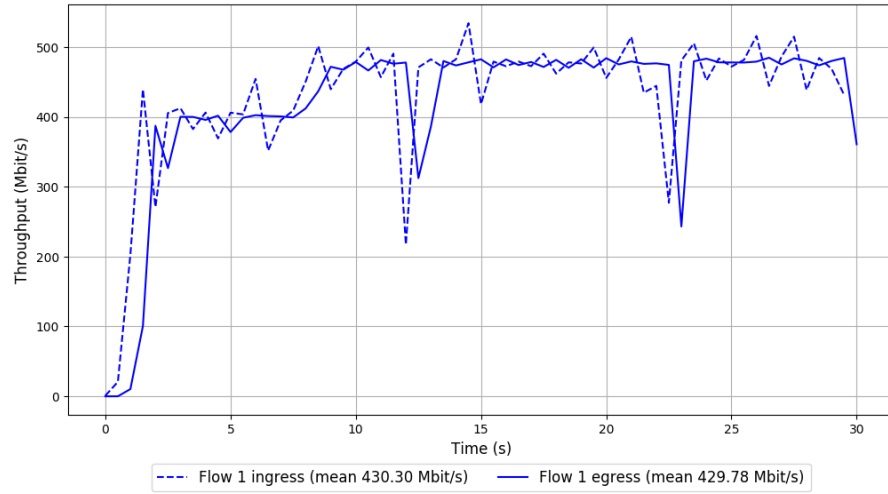
-- Flow 1:

Average throughput: 429.78 Mbit/s

95th percentile per-packet one-way delay: 177.976 ms

Loss rate: 0.77%

## Run 2: Report of FillP-Sheep — Data Link





Run 3: Statistics of FillP-Sheep

Start at: 2019-11-24 12:43:56

End at: 2019-11-24 12:44:26

Local clock offset: -3.452 ms

Remote clock offset: -40.017 ms

# Below is generated by plot.py at 2019-11-24 14:30:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 428.88 Mbit/s

95th percentile per-packet one-way delay: 181.421 ms

Loss rate: 3.46%

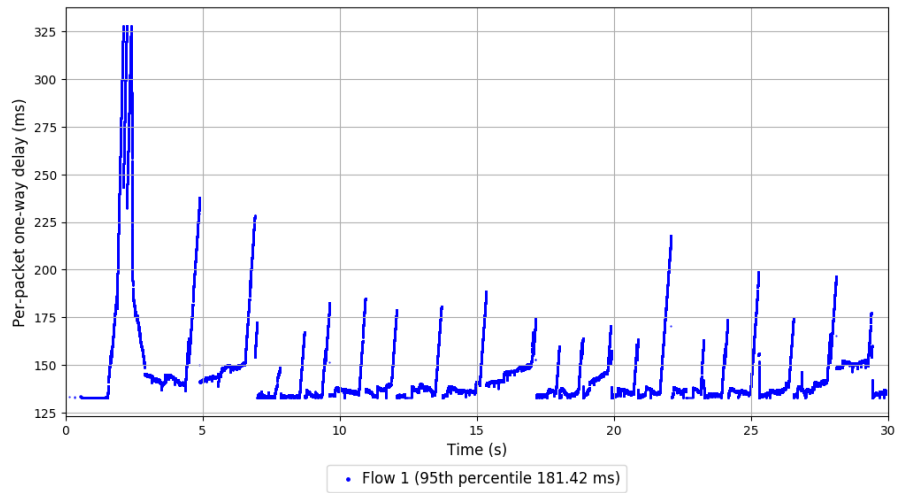
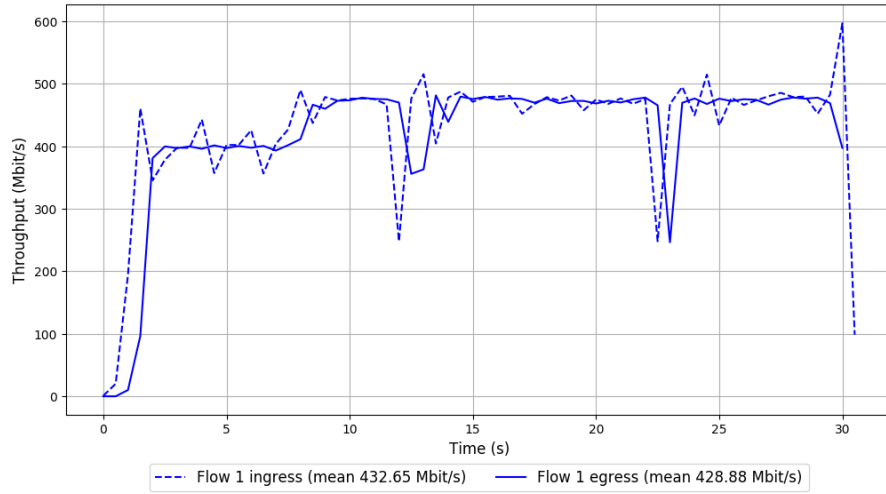
-- Flow 1:

Average throughput: 428.88 Mbit/s

95th percentile per-packet one-way delay: 181.421 ms

Loss rate: 3.46%

### Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-11-24 13:15:09

End at: 2019-11-24 13:15:39

Local clock offset: -0.839 ms

Remote clock offset: -42.058 ms

# Below is generated by plot.py at 2019-11-24 14:32:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 424.47 Mbit/s

95th percentile per-packet one-way delay: 183.457 ms

Loss rate: 0.75%

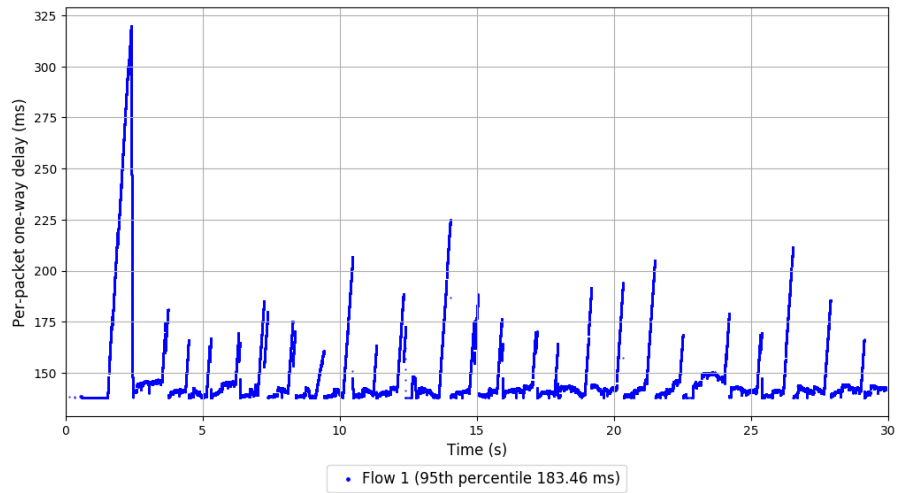
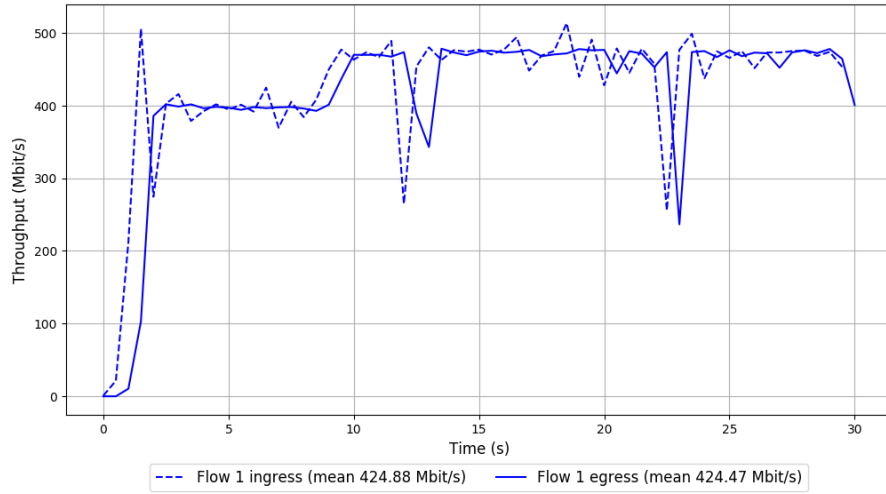
-- Flow 1:

Average throughput: 424.47 Mbit/s

95th percentile per-packet one-way delay: 183.457 ms

Loss rate: 0.75%

### Run 4: Report of FillP-Sheep — Data Link

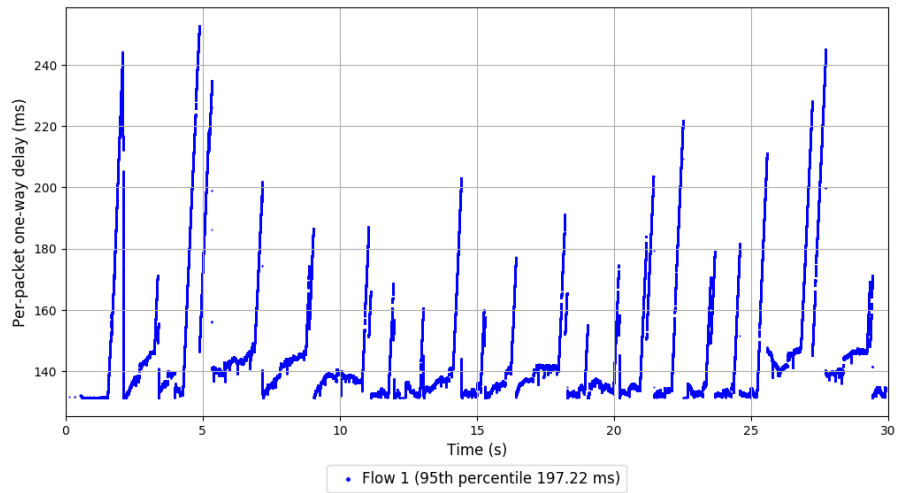
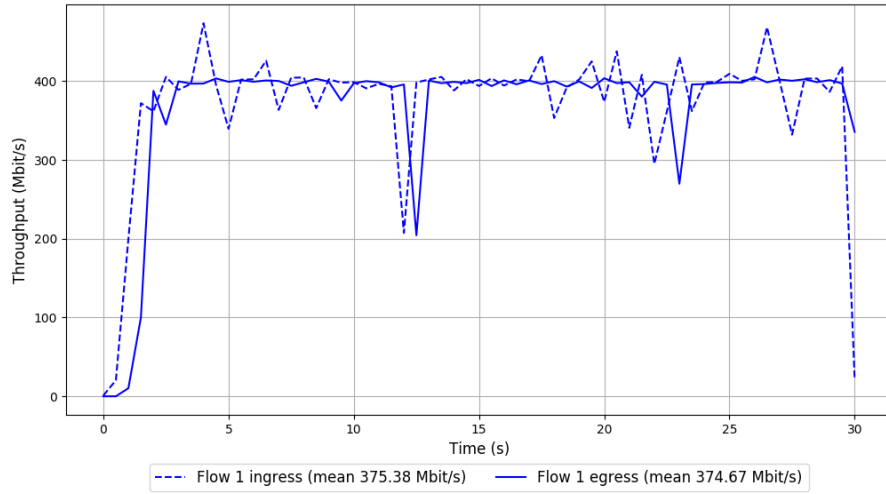


Run 5: Statistics of FillP-Sheep

Start at: 2019-11-24 13:46:10  
End at: 2019-11-24 13:46:40  
Local clock offset: -2.592 ms  
Remote clock offset: -37.094 ms

# Below is generated by plot.py at 2019-11-24 14:32:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 374.67 Mbit/s  
95th percentile per-packet one-way delay: 197.216 ms  
Loss rate: 0.96%  
-- Flow 1:  
Average throughput: 374.67 Mbit/s  
95th percentile per-packet one-way delay: 197.216 ms  
Loss rate: 0.96%

Run 5: Report of FillP-Sheep — Data Link

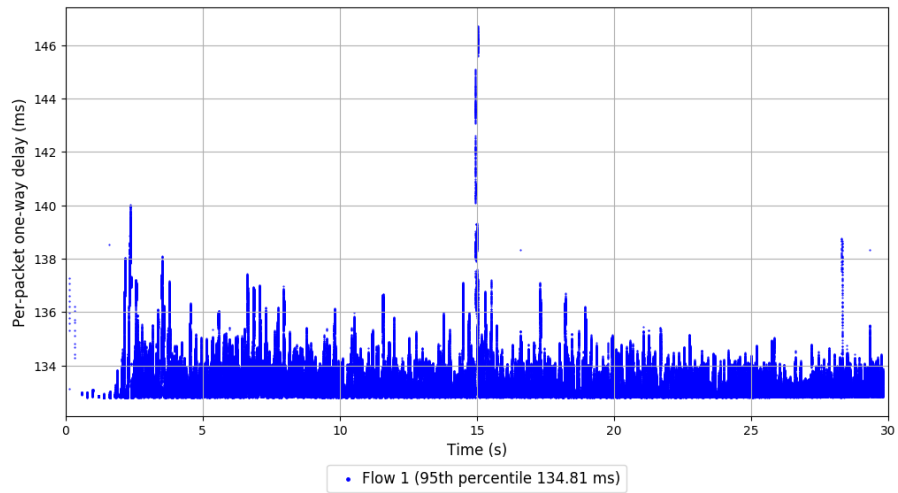
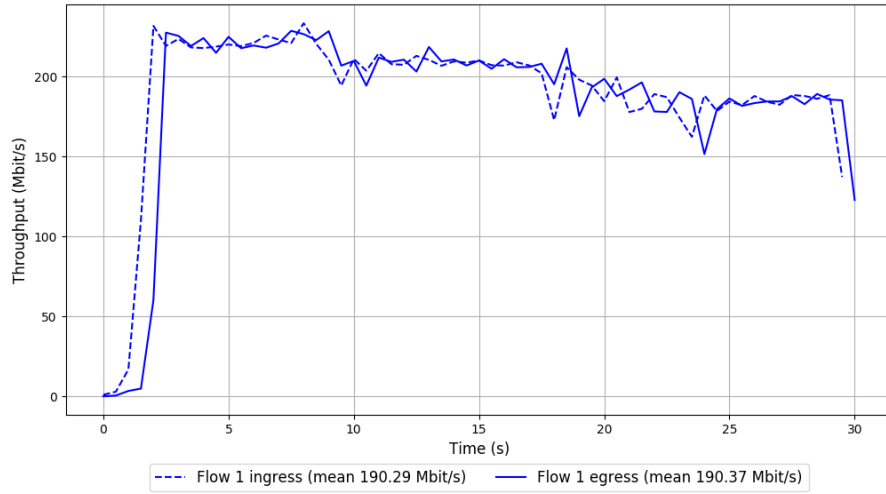


Run 1: Statistics of Indigo

Start at: 2019-11-24 11:53:36  
End at: 2019-11-24 11:54:06  
Local clock offset: -3.715 ms  
Remote clock offset: -41.586 ms

# Below is generated by plot.py at 2019-11-24 14:32:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 190.37 Mbit/s  
95th percentile per-packet one-way delay: 134.806 ms  
Loss rate: 0.60%  
-- Flow 1:  
Average throughput: 190.37 Mbit/s  
95th percentile per-packet one-way delay: 134.806 ms  
Loss rate: 0.60%

### Run 1: Report of Indigo — Data Link



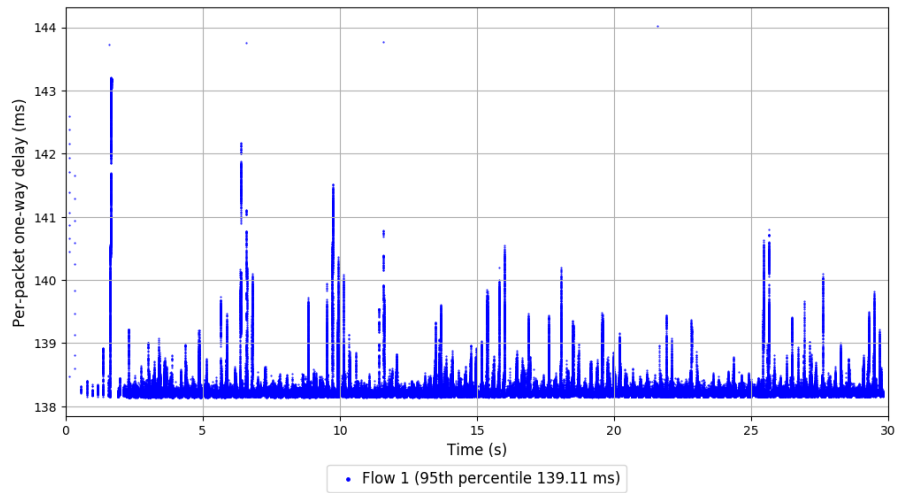
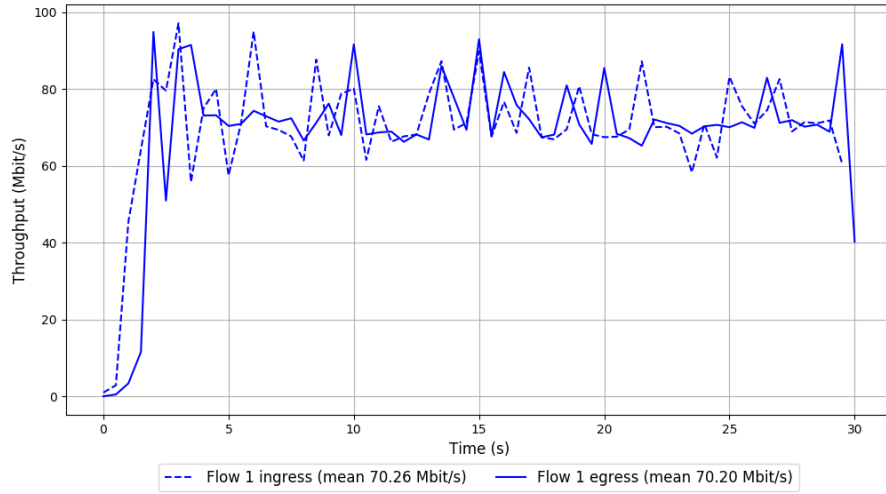


Run 2: Statistics of Indigo

Start at: 2019-11-24 12:24:35  
End at: 2019-11-24 12:25:05  
Local clock offset: -0.715 ms  
Remote clock offset: -43.165 ms

# Below is generated by plot.py at 2019-11-24 14:32:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 70.20 Mbit/s  
95th percentile per-packet one-way delay: 139.113 ms  
Loss rate: 0.71%  
-- Flow 1:  
Average throughput: 70.20 Mbit/s  
95th percentile per-packet one-way delay: 139.113 ms  
Loss rate: 0.71%

## Run 2: Report of Indigo — Data Link

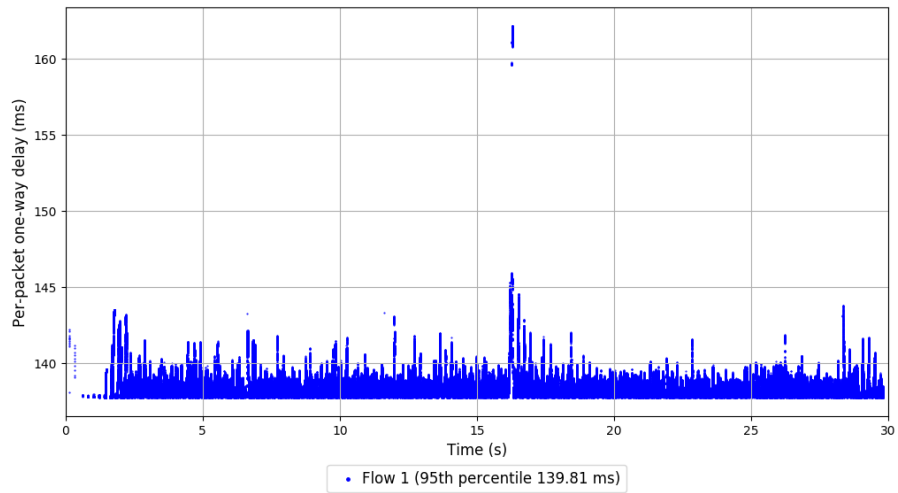
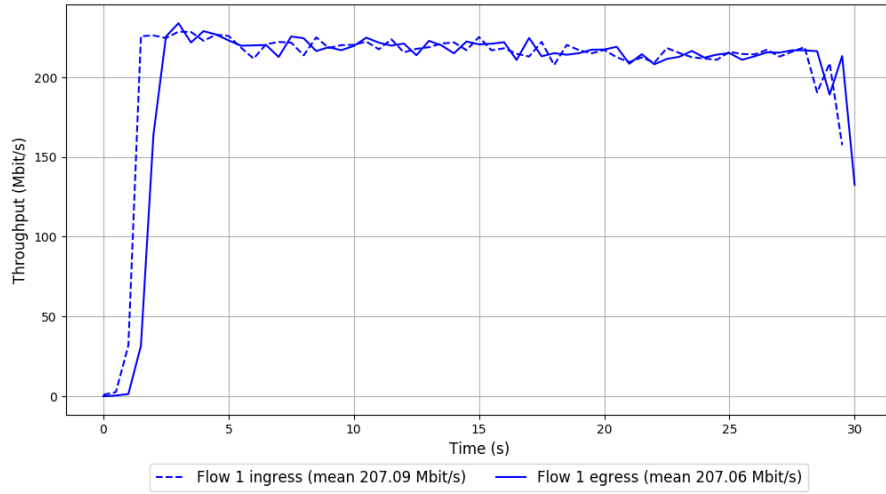


Run 3: Statistics of Indigo

Start at: 2019-11-24 12:55:32  
End at: 2019-11-24 12:56:02  
Local clock offset: -0.059 ms  
Remote clock offset: -41.227 ms

# Below is generated by plot.py at 2019-11-24 14:32:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 207.06 Mbit/s  
95th percentile per-packet one-way delay: 139.810 ms  
Loss rate: 0.66%  
-- Flow 1:  
Average throughput: 207.06 Mbit/s  
95th percentile per-packet one-way delay: 139.810 ms  
Loss rate: 0.66%

### Run 3: Report of Indigo — Data Link

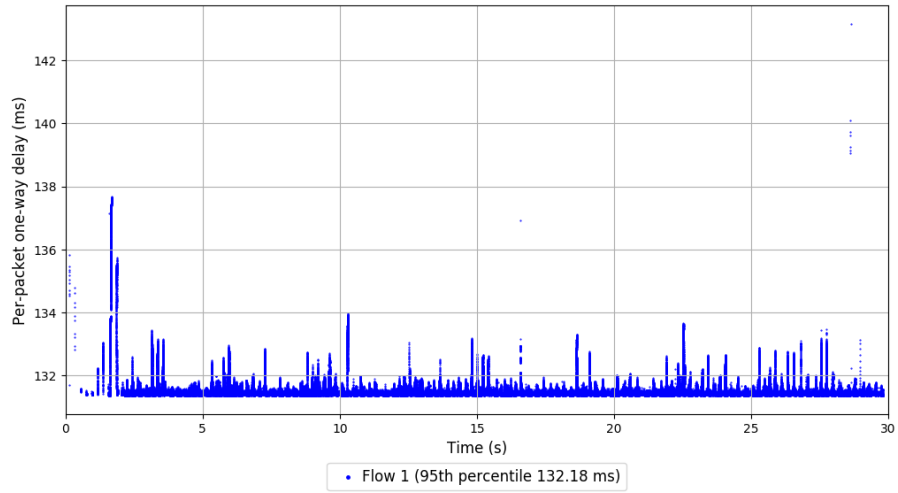
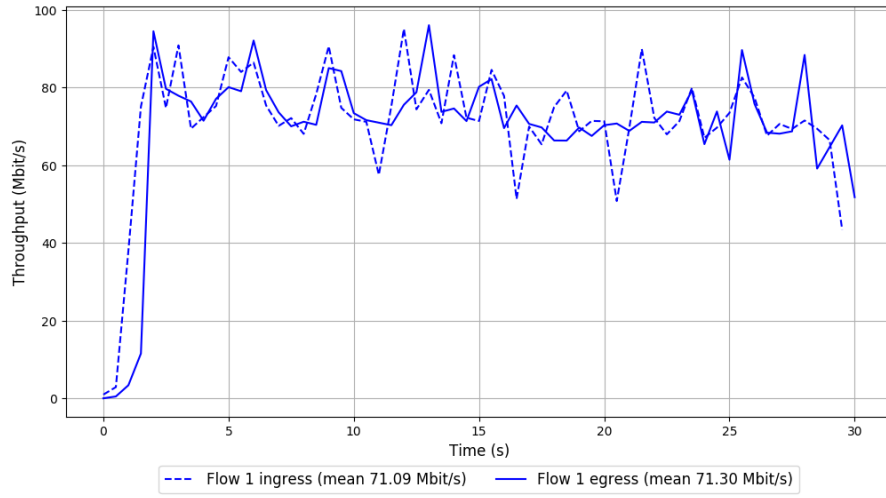


Run 4: Statistics of Indigo

Start at: 2019-11-24 13:26:44  
End at: 2019-11-24 13:27:14  
Local clock offset: -2.991 ms  
Remote clock offset: -37.463 ms

```
# Below is generated by plot.py at 2019-11-24 14:32:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.30 Mbit/s
95th percentile per-packet one-way delay: 132.178 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 71.30 Mbit/s
95th percentile per-packet one-way delay: 132.178 ms
Loss rate: 0.35%
```

### Run 4: Report of Indigo — Data Link

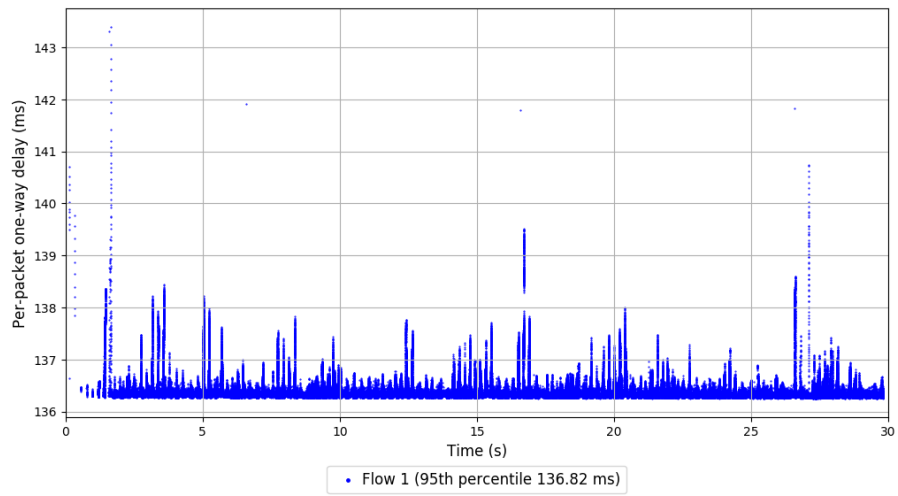
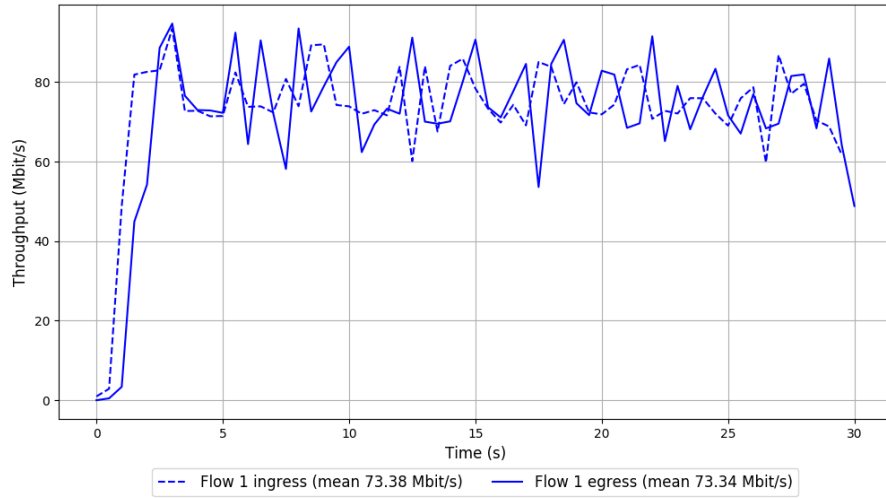


Run 5: Statistics of Indigo

Start at: 2019-11-24 13:57:44  
End at: 2019-11-24 13:58:14  
Local clock offset: 0.183 ms  
Remote clock offset: -39.151 ms

# Below is generated by plot.py at 2019-11-24 14:32:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 73.34 Mbit/s  
95th percentile per-packet one-way delay: 136.819 ms  
Loss rate: 0.70%  
-- Flow 1:  
Average throughput: 73.34 Mbit/s  
95th percentile per-packet one-way delay: 136.819 ms  
Loss rate: 0.70%

### Run 5: Report of Indigo — Data Link



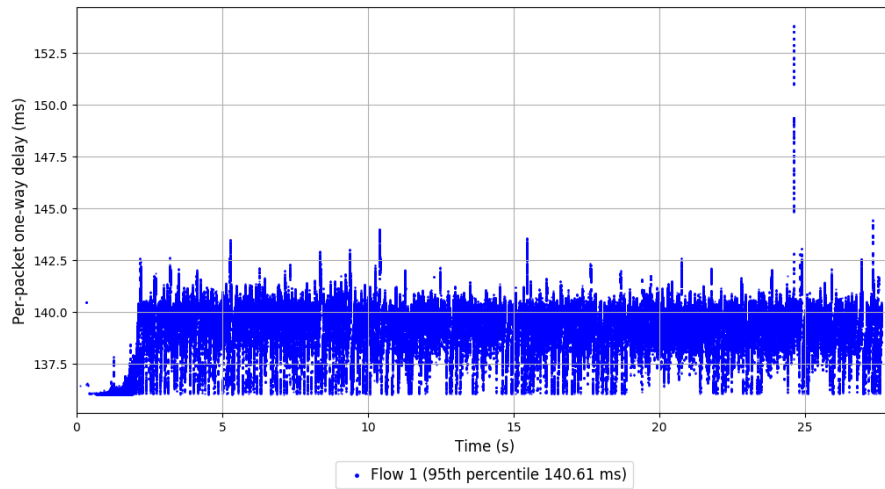
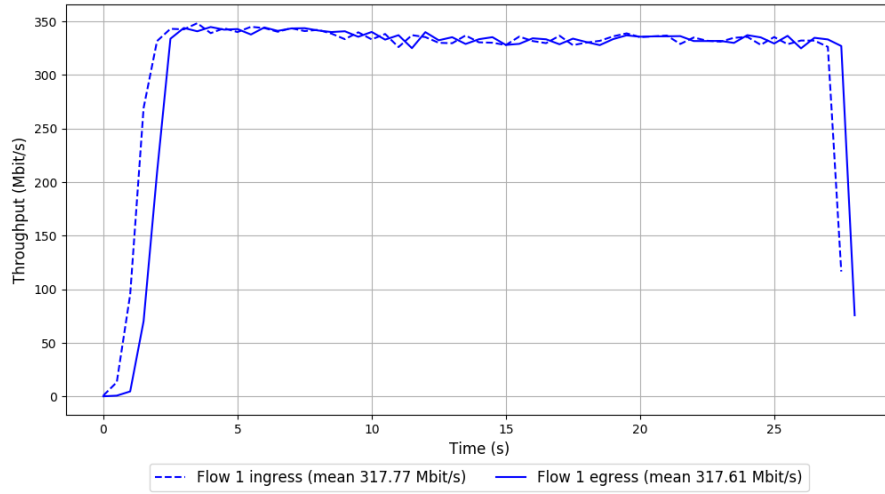


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-11-24 11:43:21  
End at: 2019-11-24 11:43:51  
Local clock offset: -0.5 ms  
Remote clock offset: -42.119 ms

# Below is generated by plot.py at 2019-11-24 14:32:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 317.61 Mbit/s  
95th percentile per-packet one-way delay: 140.610 ms  
Loss rate: 0.75%  
-- Flow 1:  
Average throughput: 317.61 Mbit/s  
95th percentile per-packet one-way delay: 140.610 ms  
Loss rate: 0.75%

### Run 1: Report of Indigo-MusesC3 — Data Link

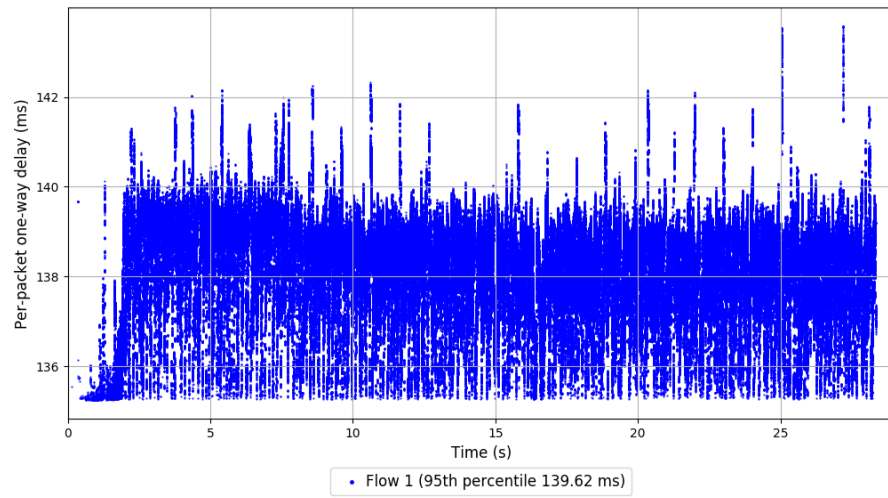
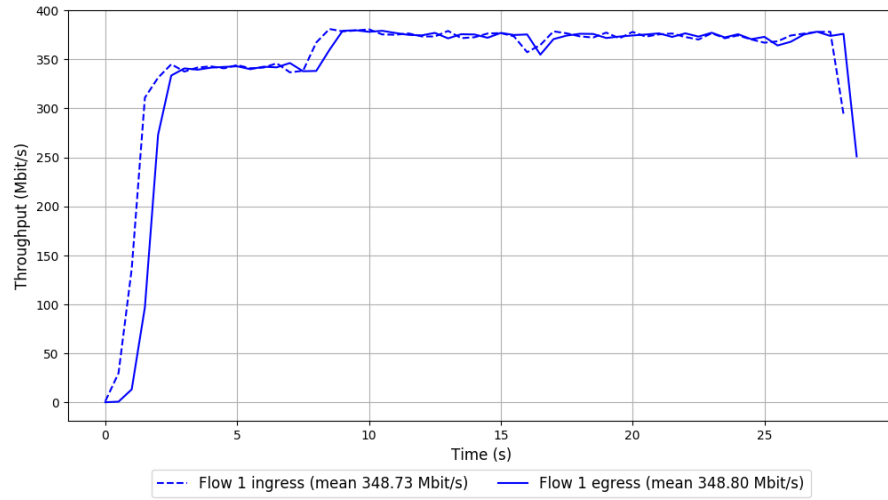


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-11-24 12:14:23  
End at: 2019-11-24 12:14:53  
Local clock offset: -1.213 ms  
Remote clock offset: -40.936 ms

# Below is generated by plot.py at 2019-11-24 14:33:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 348.80 Mbit/s  
95th percentile per-packet one-way delay: 139.624 ms  
Loss rate: 0.75%  
-- Flow 1:  
Average throughput: 348.80 Mbit/s  
95th percentile per-packet one-way delay: 139.624 ms  
Loss rate: 0.75%

## Run 2: Report of Indigo-MusesC3 — Data Link

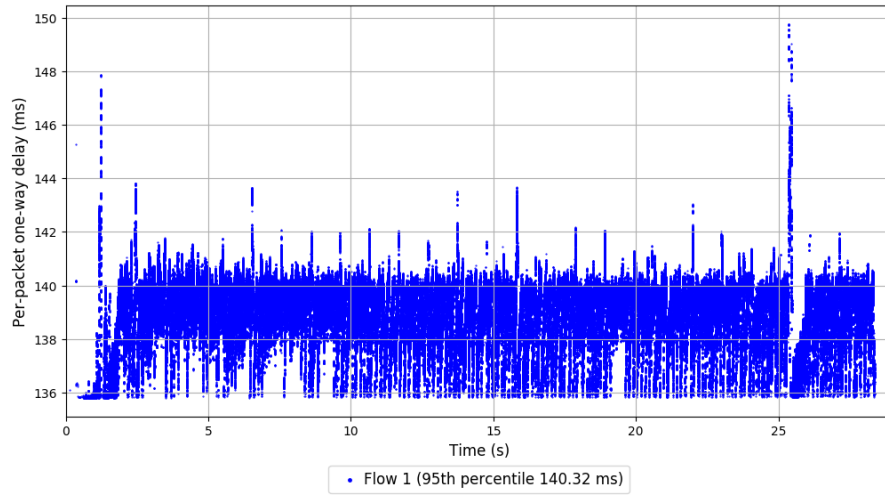
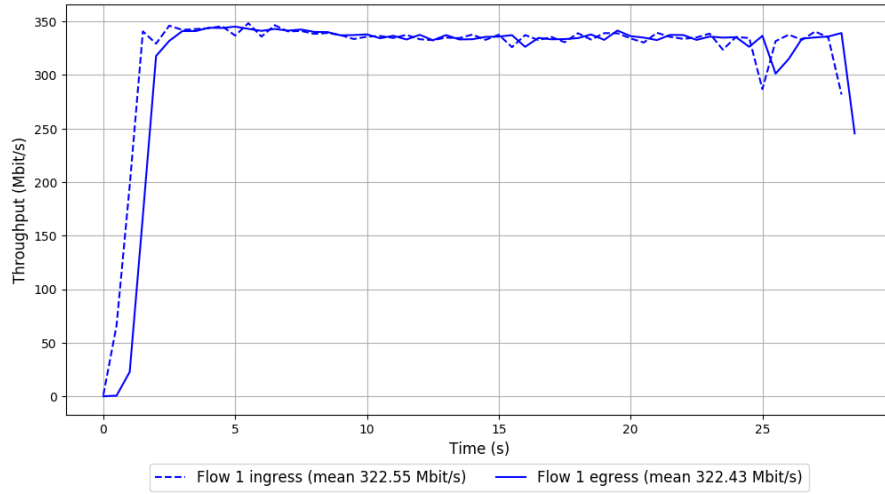


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-11-24 12:45:22  
End at: 2019-11-24 12:45:52  
Local clock offset: -0.796 ms  
Remote clock offset: -40.208 ms

# Below is generated by plot.py at 2019-11-24 14:33:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 322.43 Mbit/s  
95th percentile per-packet one-way delay: 140.317 ms  
Loss rate: 0.71%  
-- Flow 1:  
Average throughput: 322.43 Mbit/s  
95th percentile per-packet one-way delay: 140.317 ms  
Loss rate: 0.71%

### Run 3: Report of Indigo-MusesC3 — Data Link

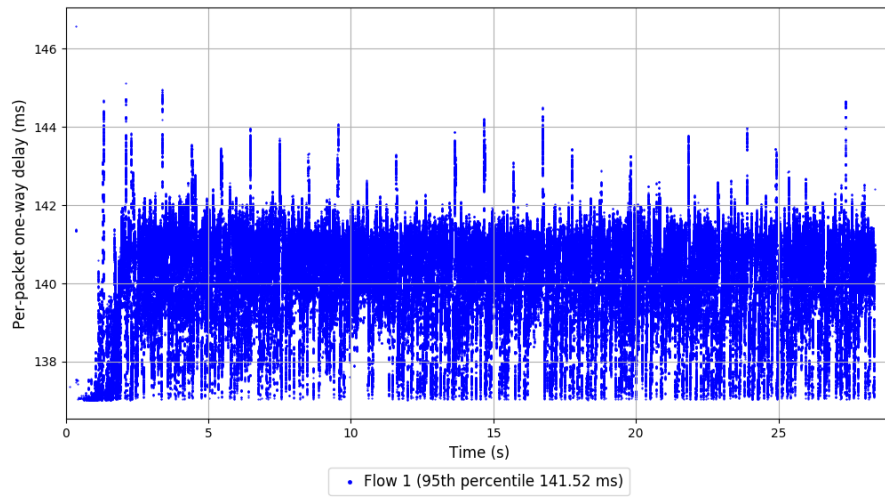
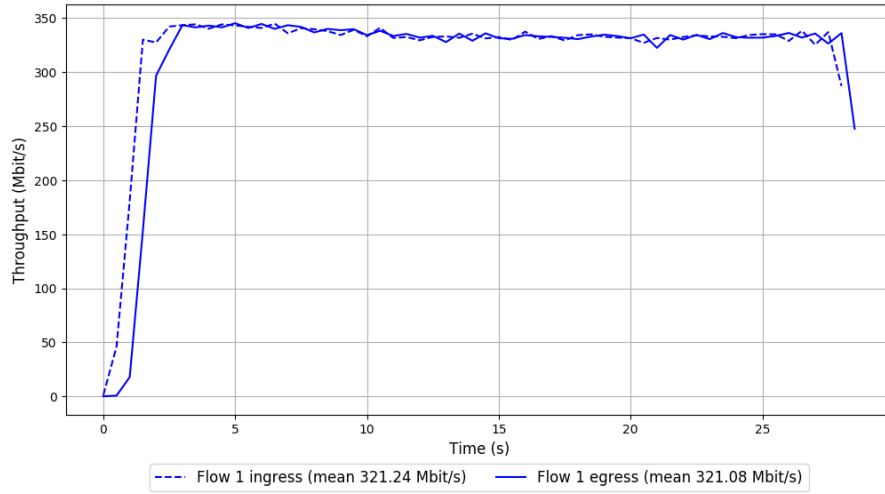


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-11-24 13:16:34  
End at: 2019-11-24 13:17:04  
Local clock offset: 0.61 ms  
Remote clock offset: -39.708 ms

# Below is generated by plot.py at 2019-11-24 14:33:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 321.08 Mbit/s  
95th percentile per-packet one-way delay: 141.523 ms  
Loss rate: 0.73%  
-- Flow 1:  
Average throughput: 321.08 Mbit/s  
95th percentile per-packet one-way delay: 141.523 ms  
Loss rate: 0.73%

### Run 4: Report of Indigo-MusesC3 — Data Link



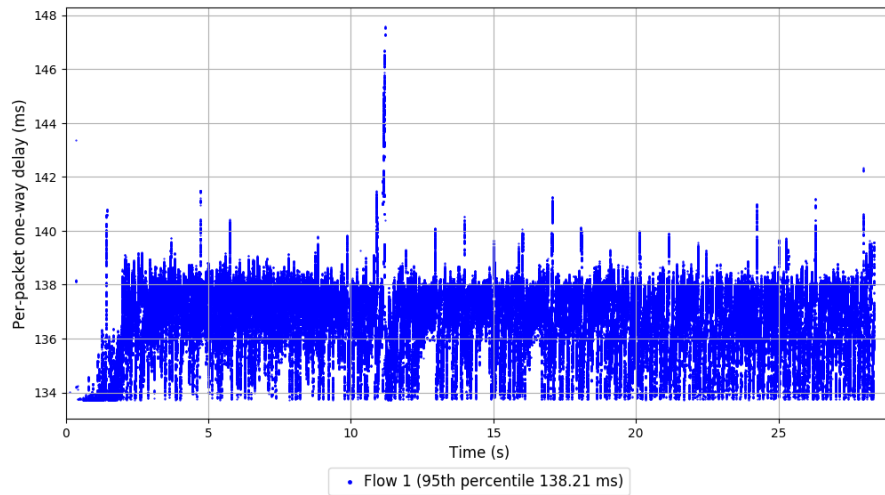
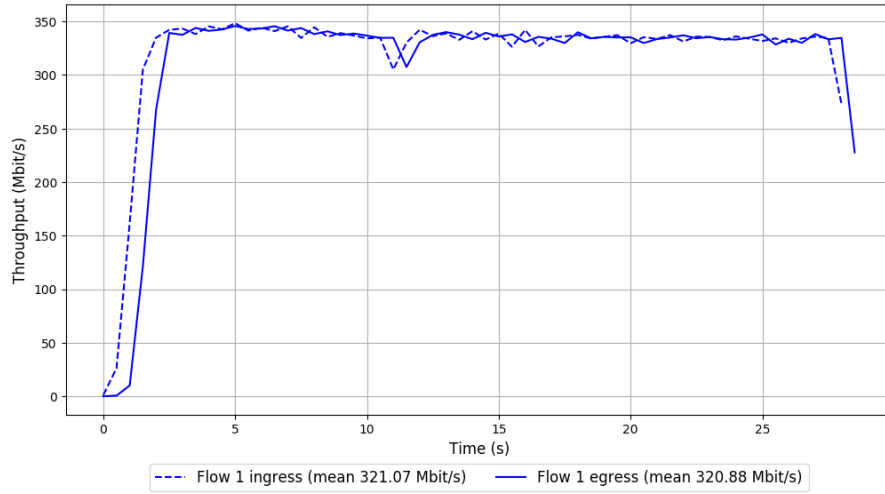


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-11-24 13:47:33  
End at: 2019-11-24 13:48:03  
Local clock offset: -0.034 ms  
Remote clock offset: -36.608 ms

# Below is generated by plot.py at 2019-11-24 14:33:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 320.88 Mbit/s  
95th percentile per-packet one-way delay: 138.212 ms  
Loss rate: 0.74%  
-- Flow 1:  
Average throughput: 320.88 Mbit/s  
95th percentile per-packet one-way delay: 138.212 ms  
Loss rate: 0.74%

### Run 5: Report of Indigo-MusesC3 — Data Link

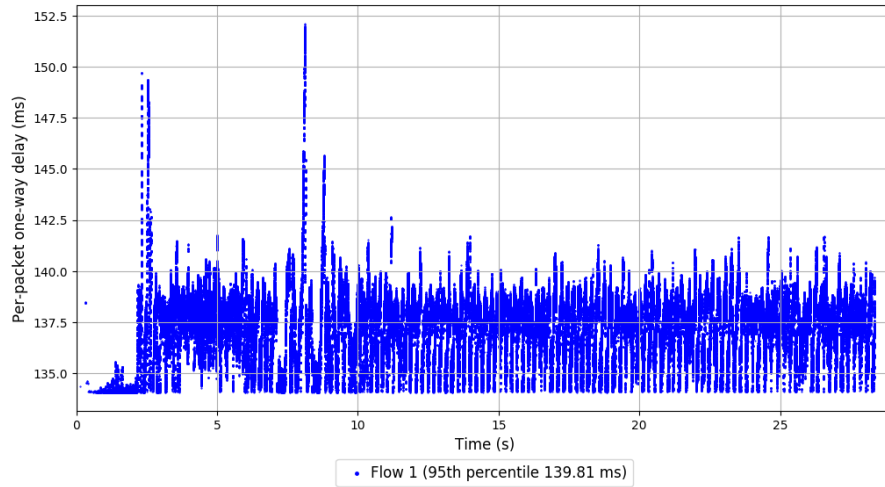
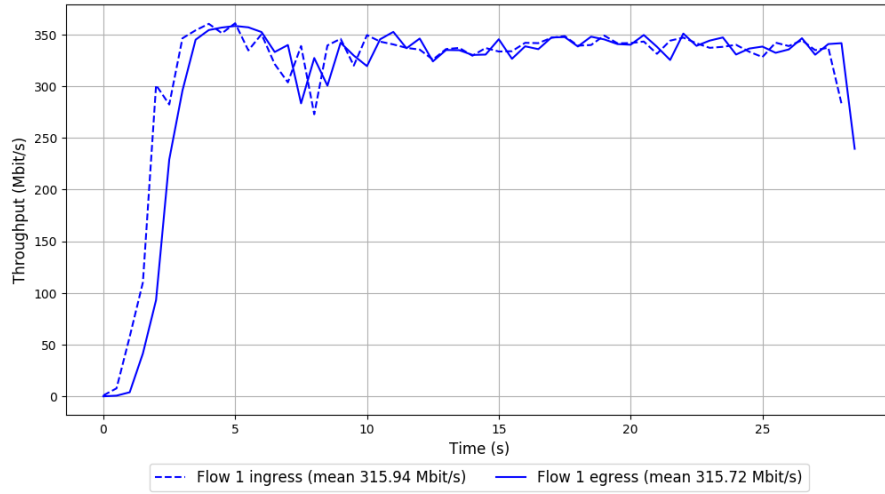


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-11-24 12:00:03  
End at: 2019-11-24 12:00:33  
Local clock offset: -0.488 ms  
Remote clock offset: -39.602 ms

# Below is generated by plot.py at 2019-11-24 14:34:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 315.72 Mbit/s  
95th percentile per-packet one-way delay: 139.806 ms  
Loss rate: 0.75%  
-- Flow 1:  
Average throughput: 315.72 Mbit/s  
95th percentile per-packet one-way delay: 139.806 ms  
Loss rate: 0.75%

### Run 1: Report of Indigo-MusesC5 — Data Link

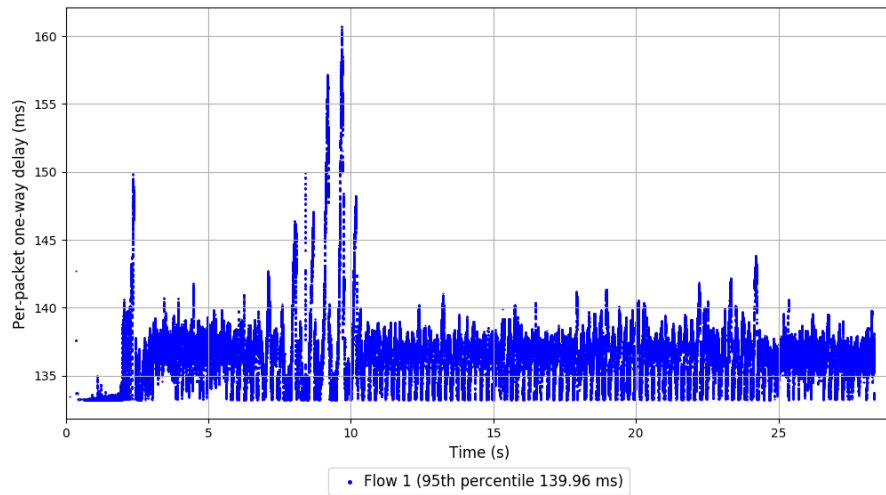
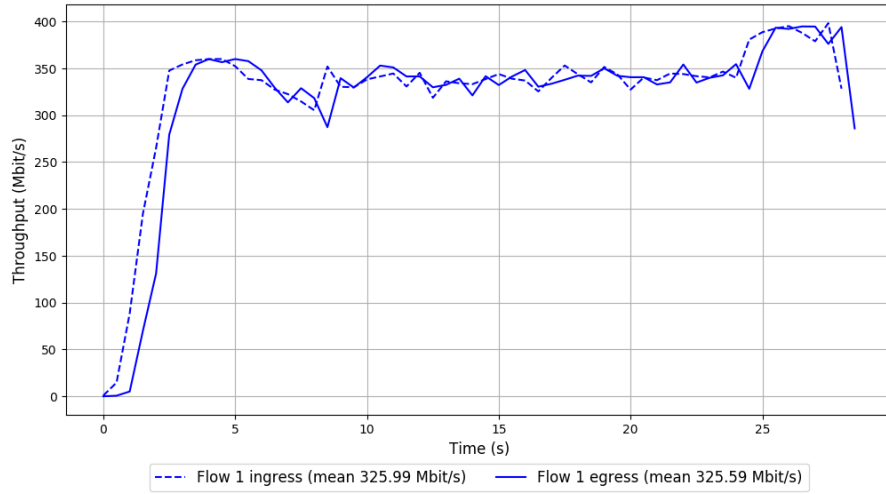


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-11-24 12:30:54  
End at: 2019-11-24 12:31:24  
Local clock offset: -1.237 ms  
Remote clock offset: -38.504 ms

# Below is generated by plot.py at 2019-11-24 14:35:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 325.59 Mbit/s  
95th percentile per-packet one-way delay: 139.960 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 325.59 Mbit/s  
95th percentile per-packet one-way delay: 139.960 ms  
Loss rate: 0.81%

## Run 2: Report of Indigo-MusesC5 — Data Link

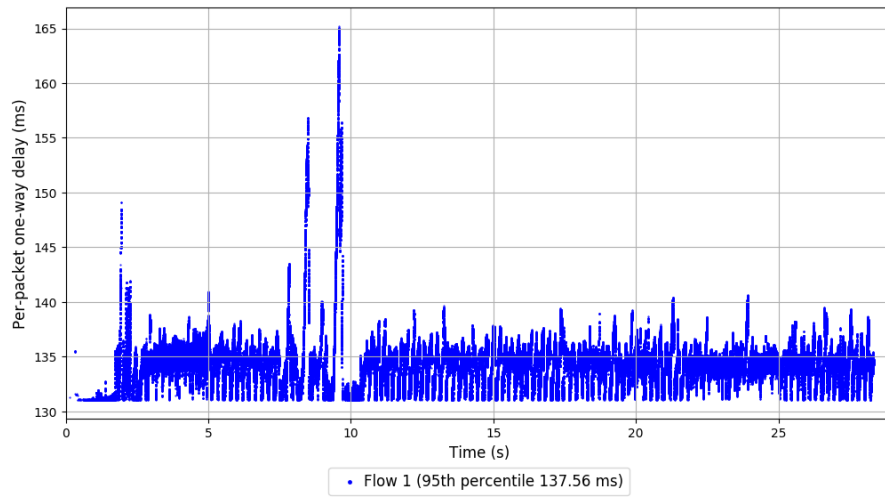
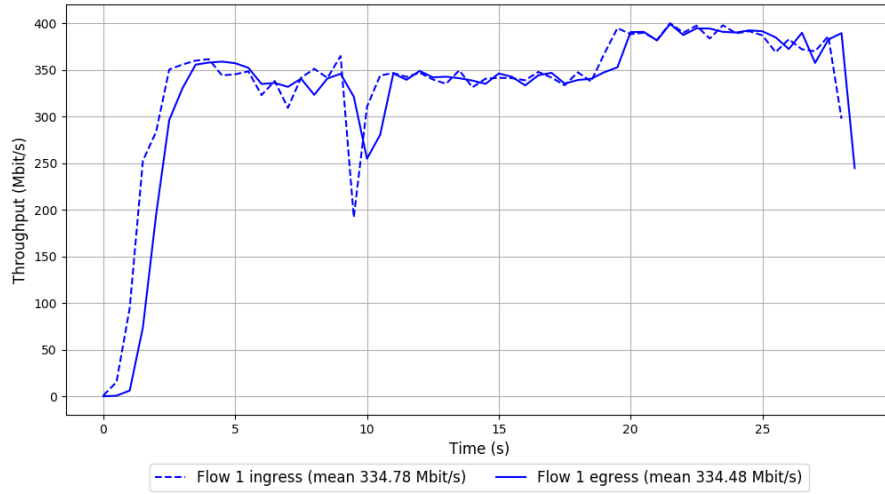


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-11-24 13:01:59  
End at: 2019-11-24 13:02:30  
Local clock offset: -2.593 ms  
Remote clock offset: -37.208 ms

# Below is generated by plot.py at 2019-11-24 14:36:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 334.48 Mbit/s  
95th percentile per-packet one-way delay: 137.564 ms  
Loss rate: 0.78%  
-- Flow 1:  
Average throughput: 334.48 Mbit/s  
95th percentile per-packet one-way delay: 137.564 ms  
Loss rate: 0.78%

### Run 3: Report of Indigo-MusesC5 — Data Link



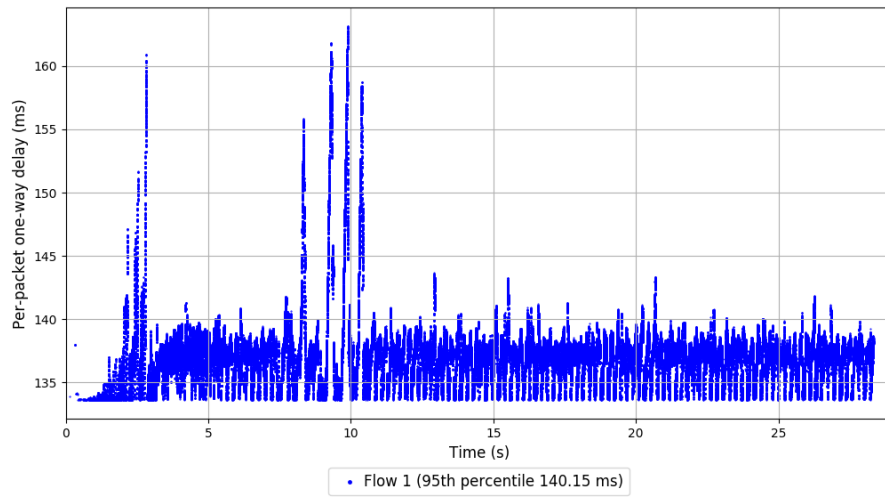
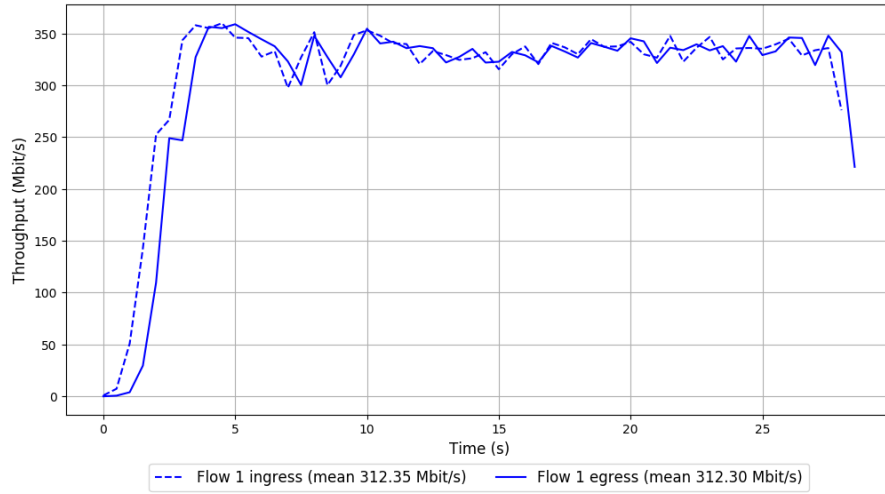


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-11-24 13:33:03  
End at: 2019-11-24 13:33:33  
Local clock offset: -2.77 ms  
Remote clock offset: -39.526 ms

# Below is generated by plot.py at 2019-11-24 14:36:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 312.30 Mbit/s  
95th percentile per-packet one-way delay: 140.154 ms  
Loss rate: 0.80%  
-- Flow 1:  
Average throughput: 312.30 Mbit/s  
95th percentile per-packet one-way delay: 140.154 ms  
Loss rate: 0.80%

### Run 4: Report of Indigo-MusesC5 — Data Link

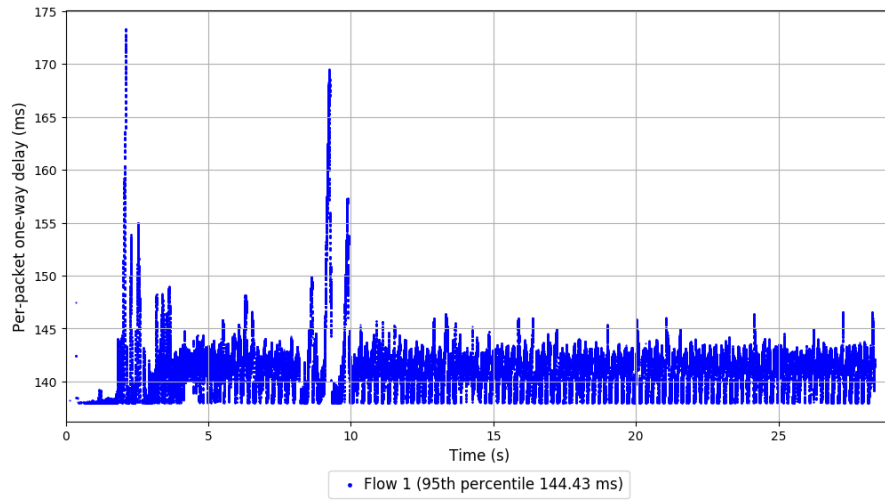
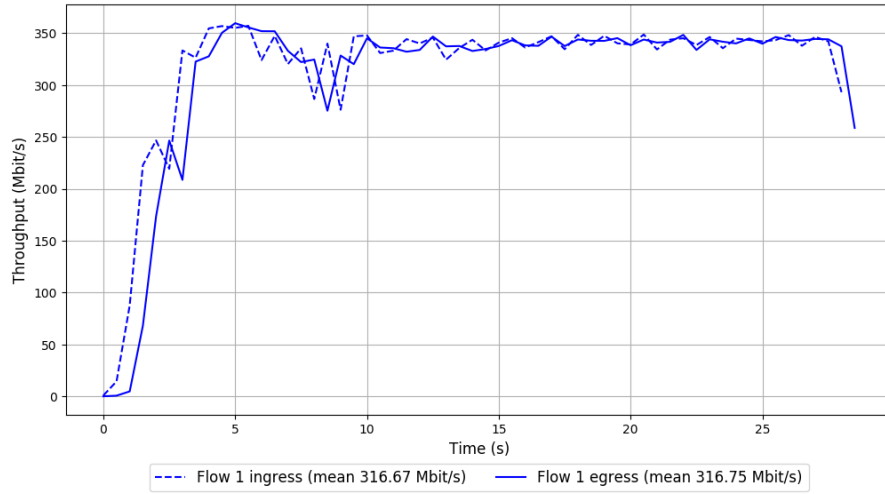


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-11-24 14:04:03  
End at: 2019-11-24 14:04:33  
Local clock offset: 0.336 ms  
Remote clock offset: -41.022 ms

# Below is generated by plot.py at 2019-11-24 14:36:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 316.75 Mbit/s  
95th percentile per-packet one-way delay: 144.427 ms  
Loss rate: 0.75%  
-- Flow 1:  
Average throughput: 316.75 Mbit/s  
95th percentile per-packet one-way delay: 144.427 ms  
Loss rate: 0.75%

### Run 5: Report of Indigo-MusesC5 — Data Link

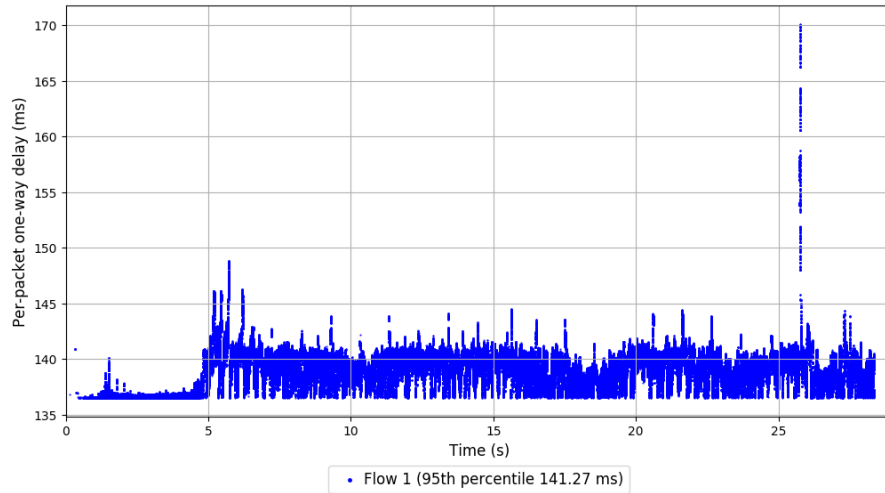
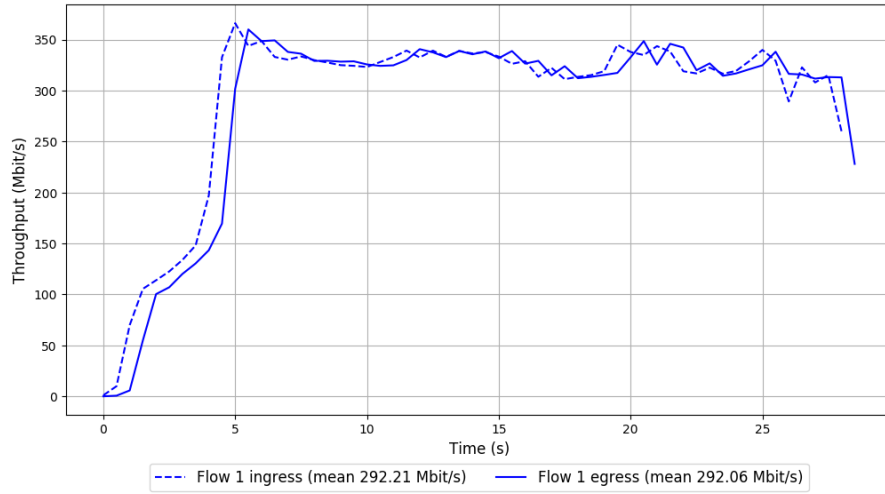


Run 1: Statistics of Indigo-MusesD

Start at: 2019-11-24 11:57:18  
End at: 2019-11-24 11:57:48  
Local clock offset: -1.479 ms  
Remote clock offset: -43.117 ms

# Below is generated by plot.py at 2019-11-24 14:36:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 292.06 Mbit/s  
95th percentile per-packet one-way delay: 141.269 ms  
Loss rate: 0.72%  
-- Flow 1:  
Average throughput: 292.06 Mbit/s  
95th percentile per-packet one-way delay: 141.269 ms  
Loss rate: 0.72%

### Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-11-24 12:28:09

End at: 2019-11-24 12:28:39

Local clock offset: -3.826 ms

Remote clock offset: -41.228 ms

# Below is generated by plot.py at 2019-11-24 14:36:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 299.38 Mbit/s

95th percentile per-packet one-way delay: 137.958 ms

Loss rate: 0.78%

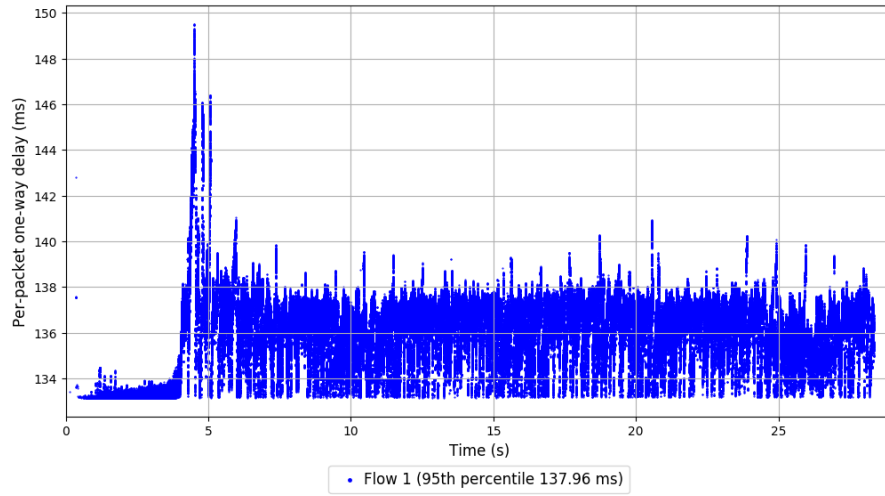
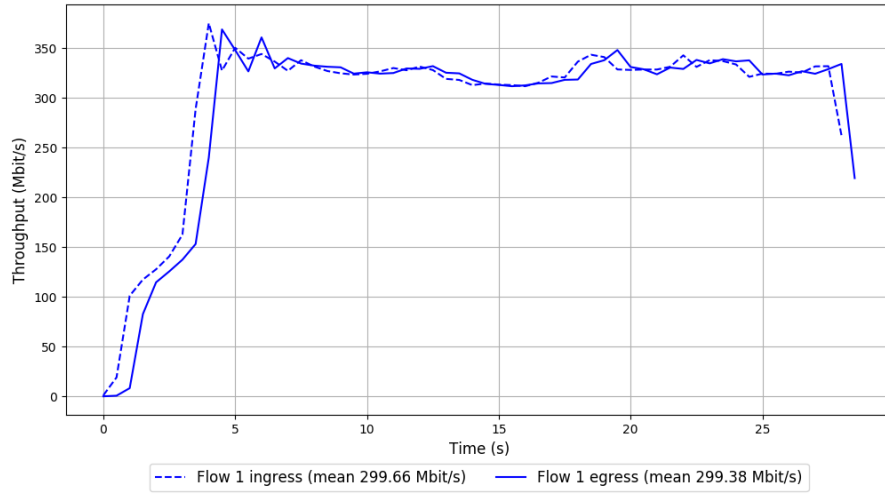
-- Flow 1:

Average throughput: 299.38 Mbit/s

95th percentile per-packet one-way delay: 137.958 ms

Loss rate: 0.78%

Run 2: Report of Indigo-MusesD — Data Link





Run 3: Statistics of Indigo-MusesD

Start at: 2019-11-24 12:59:14

End at: 2019-11-24 12:59:44

Local clock offset: -0.87 ms

Remote clock offset: -41.61 ms

# Below is generated by plot.py at 2019-11-24 14:37:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 318.68 Mbit/s

95th percentile per-packet one-way delay: 141.932 ms

Loss rate: 0.74%

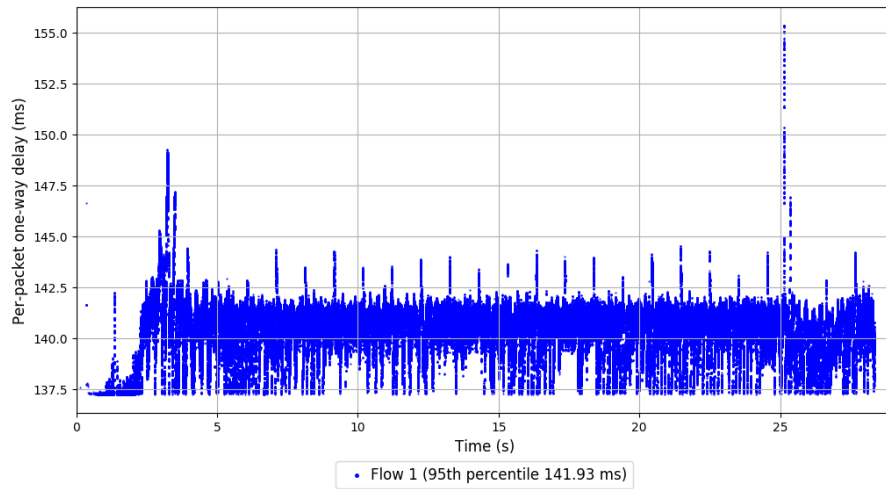
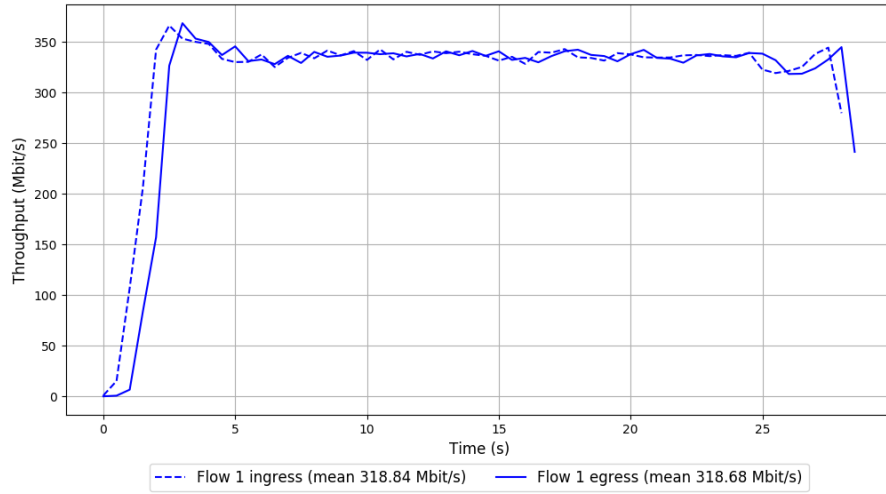
-- Flow 1:

Average throughput: 318.68 Mbit/s

95th percentile per-packet one-way delay: 141.932 ms

Loss rate: 0.74%

### Run 3: Report of Indigo-MusesD — Data Link

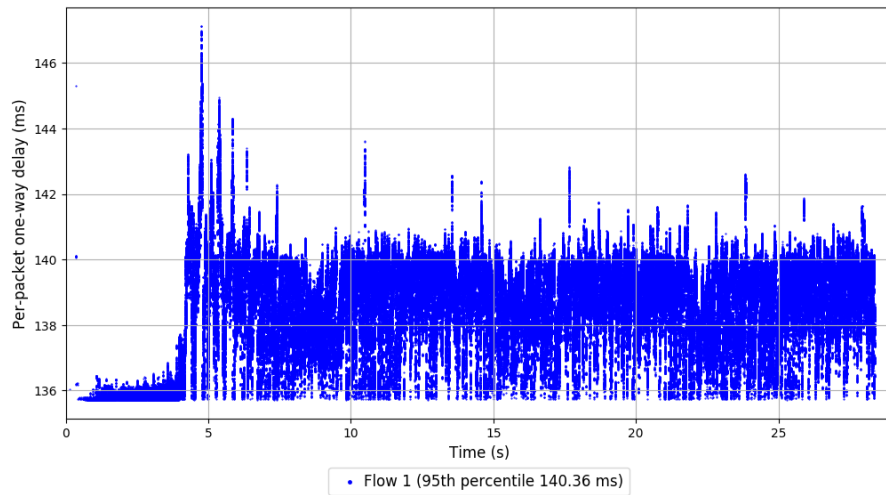
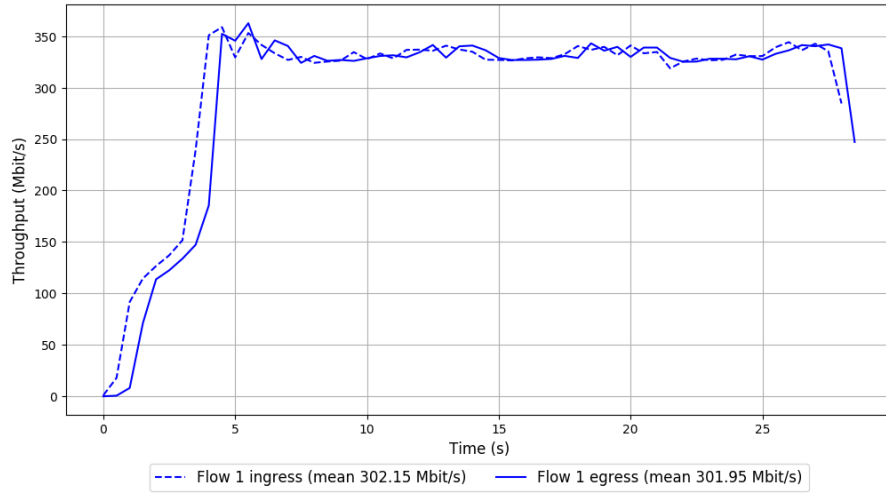


Run 4: Statistics of Indigo-MusesD

Start at: 2019-11-24 13:30:18  
End at: 2019-11-24 13:30:48  
Local clock offset: -0.862 ms  
Remote clock offset: -39.797 ms

# Below is generated by plot.py at 2019-11-24 14:37:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 301.95 Mbit/s  
95th percentile per-packet one-way delay: 140.357 ms  
Loss rate: 0.75%  
-- Flow 1:  
Average throughput: 301.95 Mbit/s  
95th percentile per-packet one-way delay: 140.357 ms  
Loss rate: 0.75%

#### Run 4: Report of Indigo-MusesD — Data Link

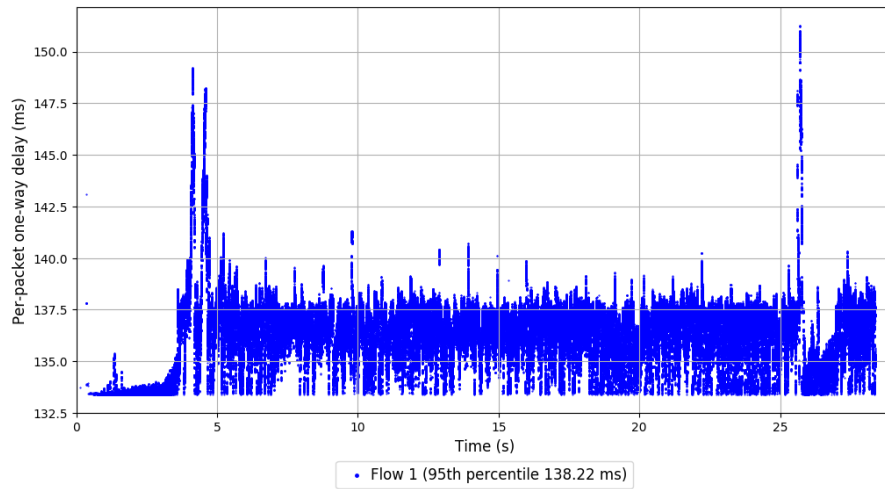
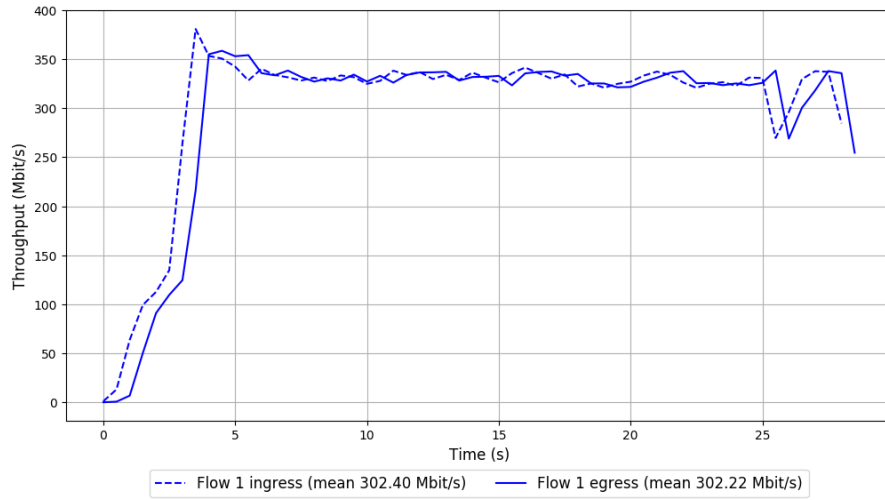


Run 5: Statistics of Indigo-MusesD

Start at: 2019-11-24 14:01:18  
End at: 2019-11-24 14:01:48  
Local clock offset: -0.917 ms  
Remote clock offset: -37.647 ms

# Below is generated by plot.py at 2019-11-24 14:39:11  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 302.22 Mbit/s  
95th percentile per-packet one-way delay: 138.223 ms  
Loss rate: 0.73%  
-- Flow 1:  
Average throughput: 302.22 Mbit/s  
95th percentile per-packet one-way delay: 138.223 ms  
Loss rate: 0.73%

### Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MuseST

Start at: 2019-11-24 12:09:03

End at: 2019-11-24 12:09:33

Local clock offset: -1.352 ms

Remote clock offset: -42.74 ms

# Below is generated by plot.py at 2019-11-24 14:39:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 312.53 Mbit/s

95th percentile per-packet one-way delay: 141.063 ms

Loss rate: 0.73%

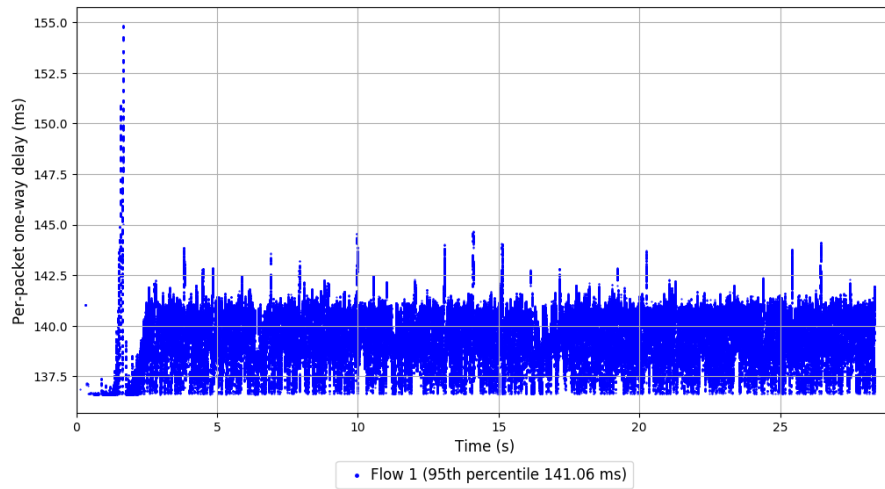
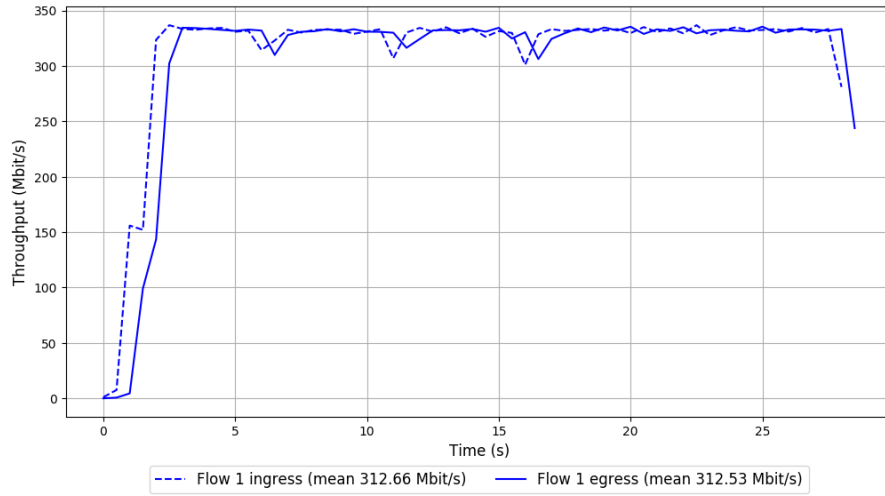
-- Flow 1:

Average throughput: 312.53 Mbit/s

95th percentile per-packet one-way delay: 141.063 ms

Loss rate: 0.73%

### Run 1: Report of Indigo-MusesT — Data Link





Run 2: Statistics of Indigo-MuseST

Start at: 2019-11-24 12:40:06

End at: 2019-11-24 12:40:36

Local clock offset: -2.305 ms

Remote clock offset: -40.046 ms

# Below is generated by plot.py at 2019-11-24 14:39:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 316.18 Mbit/s

95th percentile per-packet one-way delay: 138.389 ms

Loss rate: 0.71%

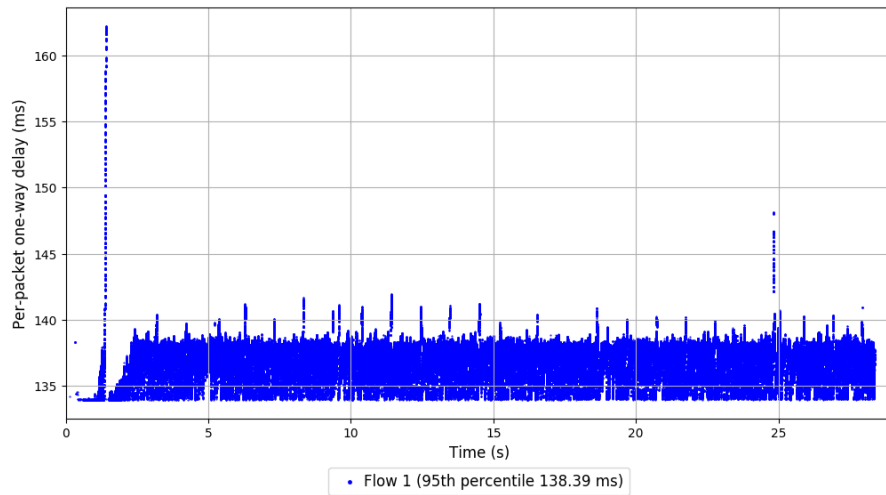
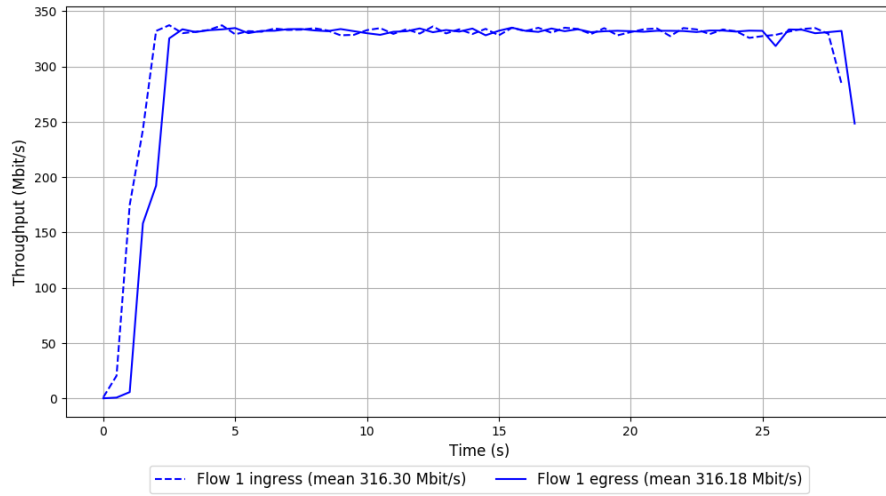
-- Flow 1:

Average throughput: 316.18 Mbit/s

95th percentile per-packet one-way delay: 138.389 ms

Loss rate: 0.71%

## Run 2: Report of Indigo-MusesT — Data Link

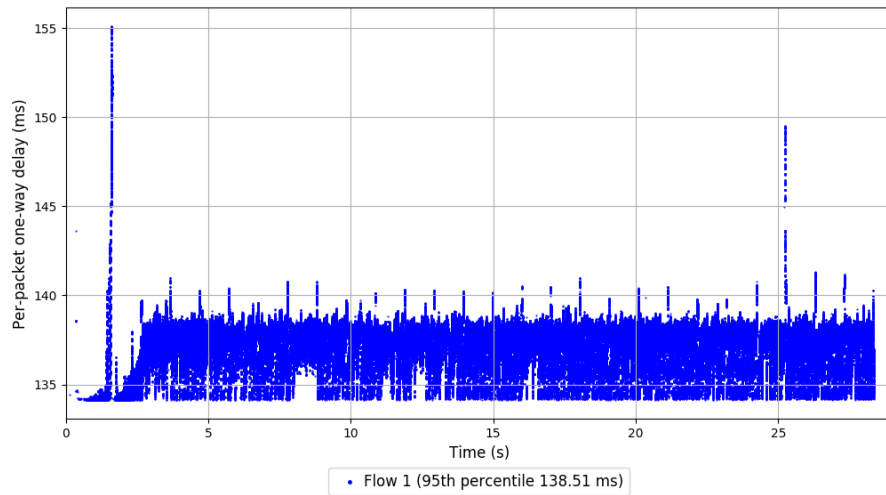
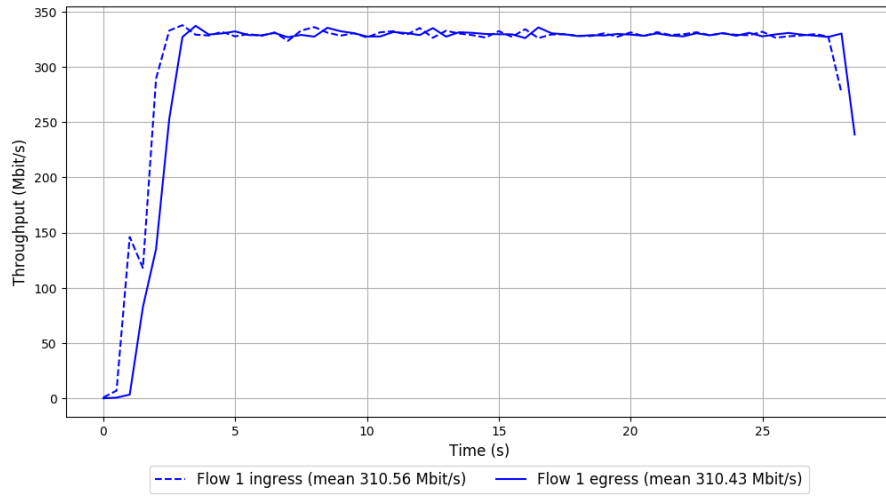


Run 3: Statistics of Indigo-MuseST

Start at: 2019-11-24 13:11:11  
End at: 2019-11-24 13:11:41  
Local clock offset: 0.002 ms  
Remote clock offset: -37.647 ms

# Below is generated by plot.py at 2019-11-24 14:39:42  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 310.43 Mbit/s  
95th percentile per-packet one-way delay: 138.513 ms  
Loss rate: 0.72%  
-- Flow 1:  
Average throughput: 310.43 Mbit/s  
95th percentile per-packet one-way delay: 138.513 ms  
Loss rate: 0.72%

### Run 3: Report of Indigo-MusesT — Data Link

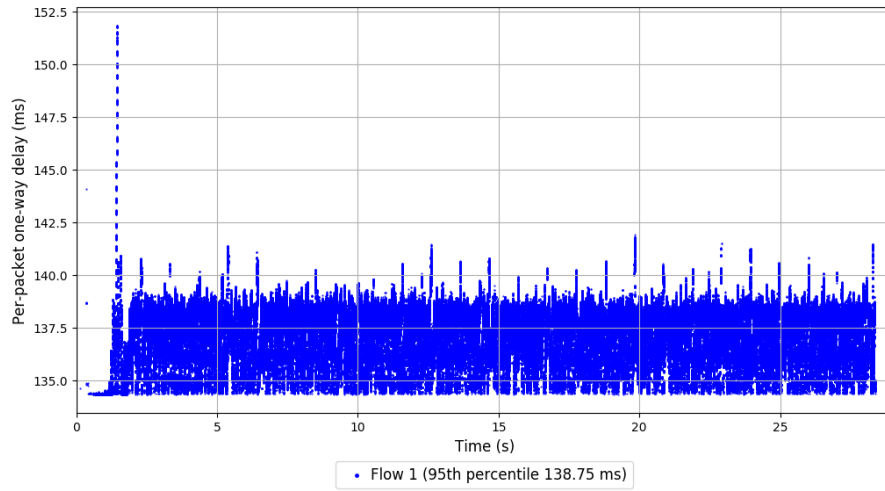
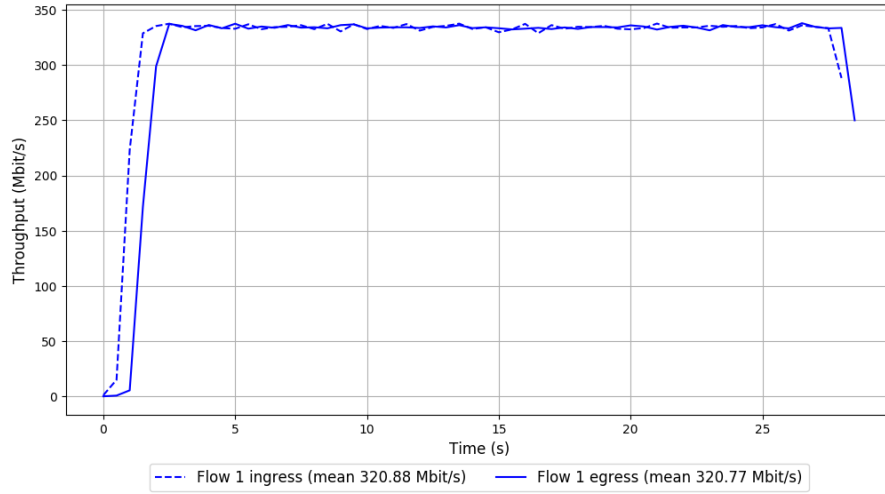


Run 4: Statistics of Indigo-MuseST

Start at: 2019-11-24 13:42:15  
End at: 2019-11-24 13:42:45  
Local clock offset: -0.815 ms  
Remote clock offset: -38.22 ms

# Below is generated by plot.py at 2019-11-24 14:39:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 320.77 Mbit/s  
95th percentile per-packet one-way delay: 138.750 ms  
Loss rate: 0.71%  
-- Flow 1:  
Average throughput: 320.77 Mbit/s  
95th percentile per-packet one-way delay: 138.750 ms  
Loss rate: 0.71%

### Run 4: Report of Indigo-MusesT — Data Link

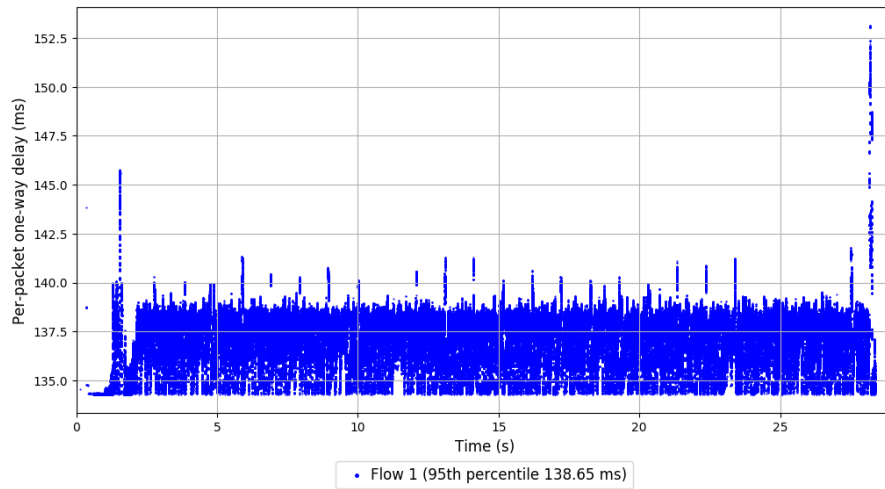
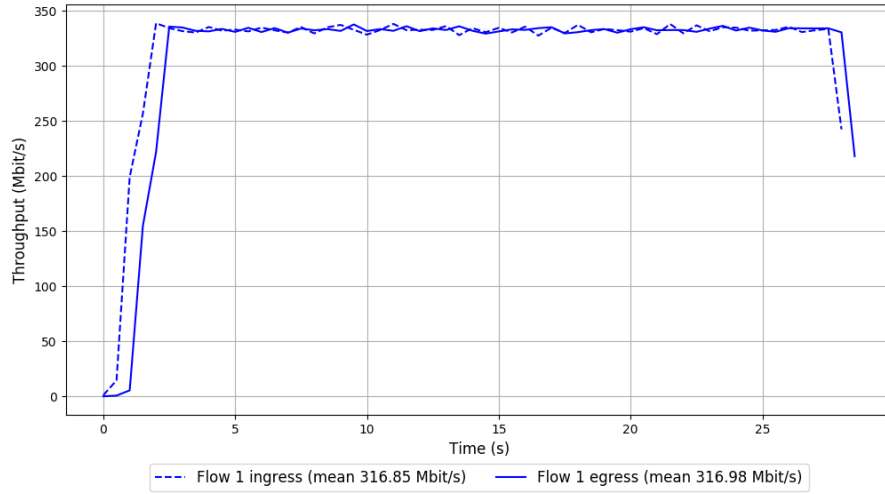


Run 5: Statistics of Indigo-MuseST

Start at: 2019-11-24 14:13:15  
End at: 2019-11-24 14:13:45  
Local clock offset: 0.547 ms  
Remote clock offset: -37.202 ms

```
# Below is generated by plot.py at 2019-11-24 14:40:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 316.98 Mbit/s
95th percentile per-packet one-way delay: 138.647 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 316.98 Mbit/s
95th percentile per-packet one-way delay: 138.647 ms
Loss rate: 0.64%
```

### Run 5: Report of Indigo-MusesT — Data Link



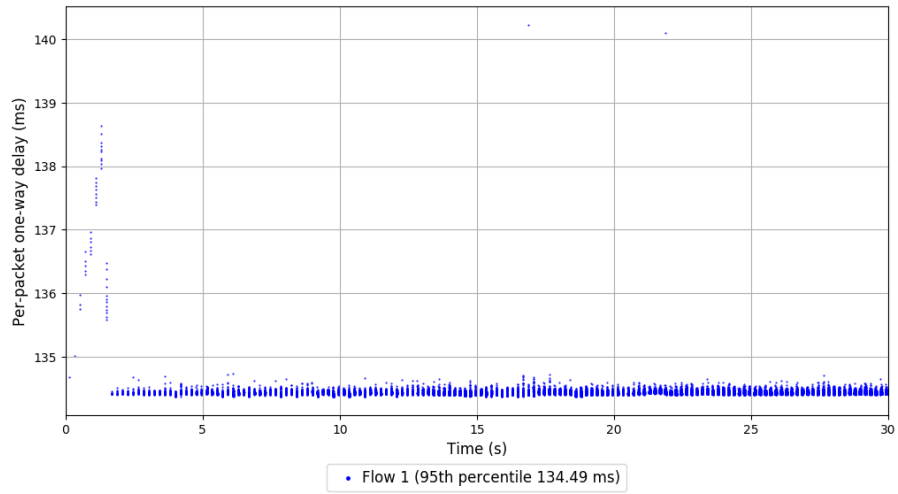
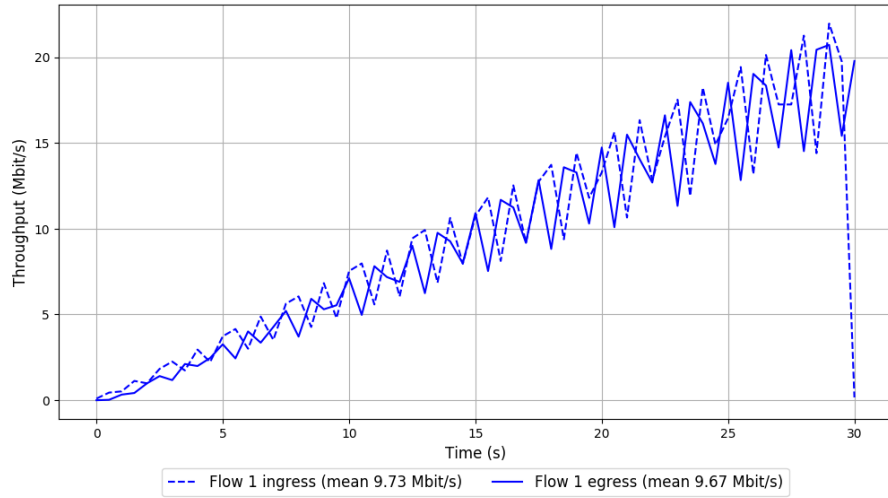


Run 1: Statistics of LEDBAT

Start at: 2019-11-24 11:48:39  
End at: 2019-11-24 11:49:09  
Local clock offset: 0.266 ms  
Remote clock offset: -39.434 ms

# Below is generated by plot.py at 2019-11-24 14:40:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 9.67 Mbit/s  
95th percentile per-packet one-way delay: 134.487 ms  
Loss rate: 1.29%  
-- Flow 1:  
Average throughput: 9.67 Mbit/s  
95th percentile per-packet one-way delay: 134.487 ms  
Loss rate: 1.29%

Run 1: Report of LEDBAT — Data Link

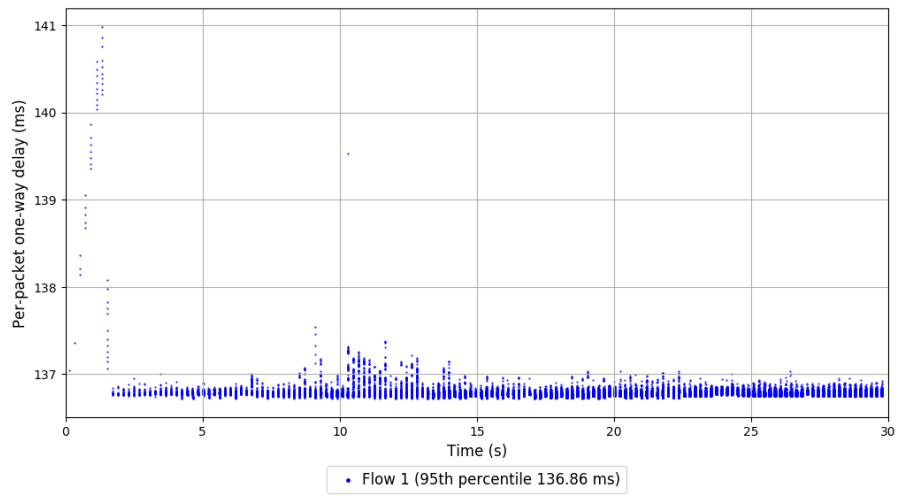
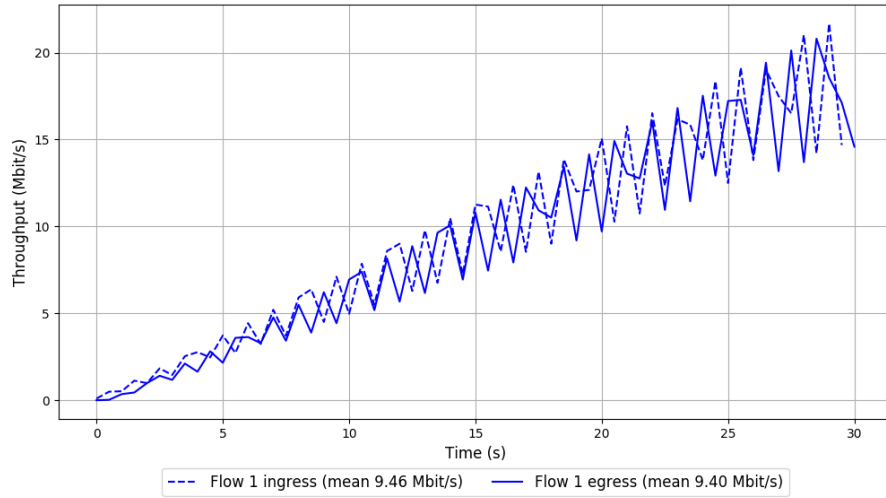


Run 2: Statistics of LEDBAT

Start at: 2019-11-24 12:19:40  
End at: 2019-11-24 12:20:10  
Local clock offset: 0.238 ms  
Remote clock offset: -40.773 ms

# Below is generated by plot.py at 2019-11-24 14:40:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 9.40 Mbit/s  
95th percentile per-packet one-way delay: 136.862 ms  
Loss rate: 1.30%  
-- Flow 1:  
Average throughput: 9.40 Mbit/s  
95th percentile per-packet one-way delay: 136.862 ms  
Loss rate: 1.30%

Run 2: Report of LEDBAT — Data Link

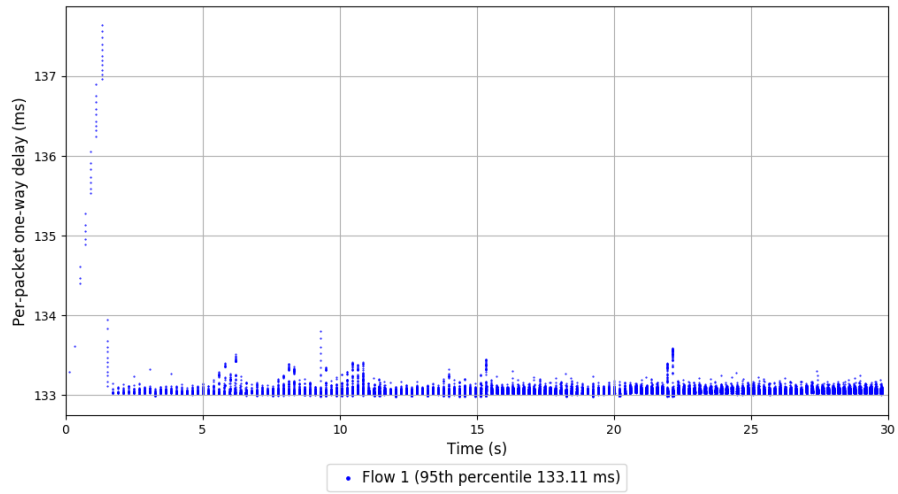
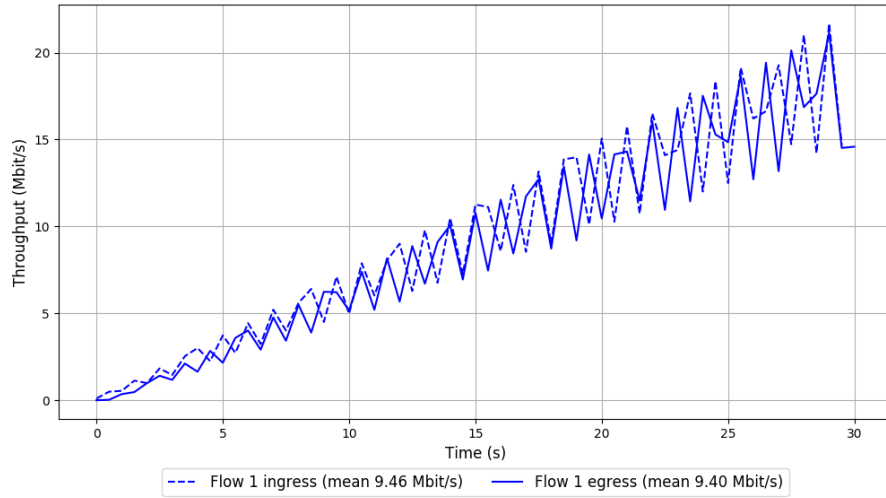


Run 3: Statistics of LEDBAT

Start at: 2019-11-24 12:50:35  
End at: 2019-11-24 12:51:05  
Local clock offset: -3.563 ms  
Remote clock offset: -40.128 ms

# Below is generated by plot.py at 2019-11-24 14:40:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 9.40 Mbit/s  
95th percentile per-packet one-way delay: 133.111 ms  
Loss rate: 1.30%  
-- Flow 1:  
Average throughput: 9.40 Mbit/s  
95th percentile per-packet one-way delay: 133.111 ms  
Loss rate: 1.30%

### Run 3: Report of LEDBAT — Data Link

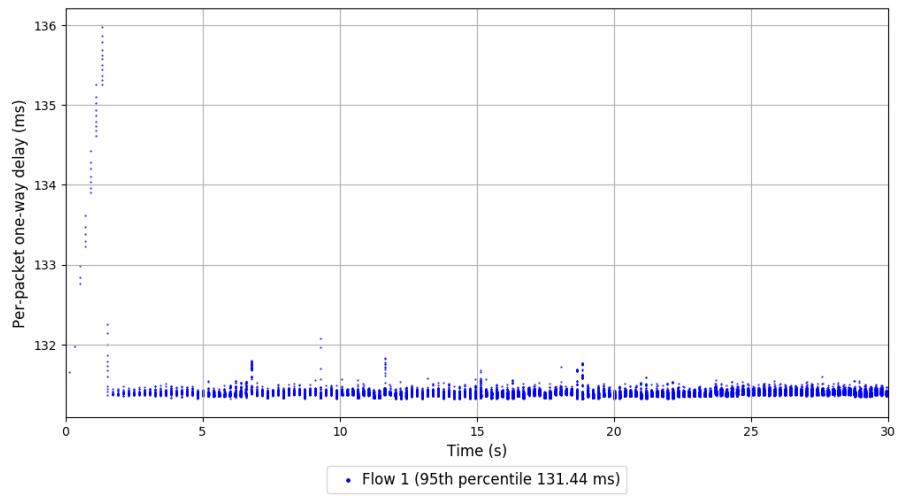
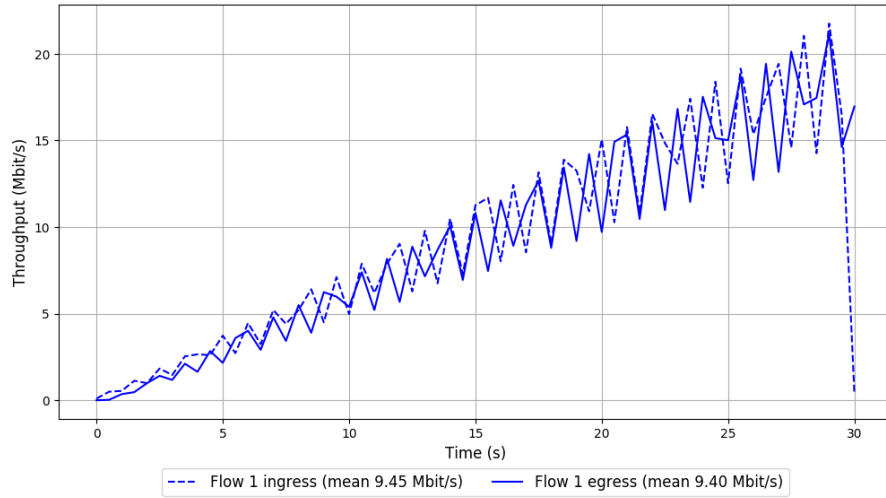


Run 4: Statistics of LEDBAT

Start at: 2019-11-24 13:21:48  
End at: 2019-11-24 13:22:18  
Local clock offset: -3.802 ms  
Remote clock offset: -38.228 ms

```
# Below is generated by plot.py at 2019-11-24 14:40:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.40 Mbit/s
95th percentile per-packet one-way delay: 131.437 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 9.40 Mbit/s
95th percentile per-packet one-way delay: 131.437 ms
Loss rate: 1.26%
```

### Run 4: Report of LEDBAT — Data Link



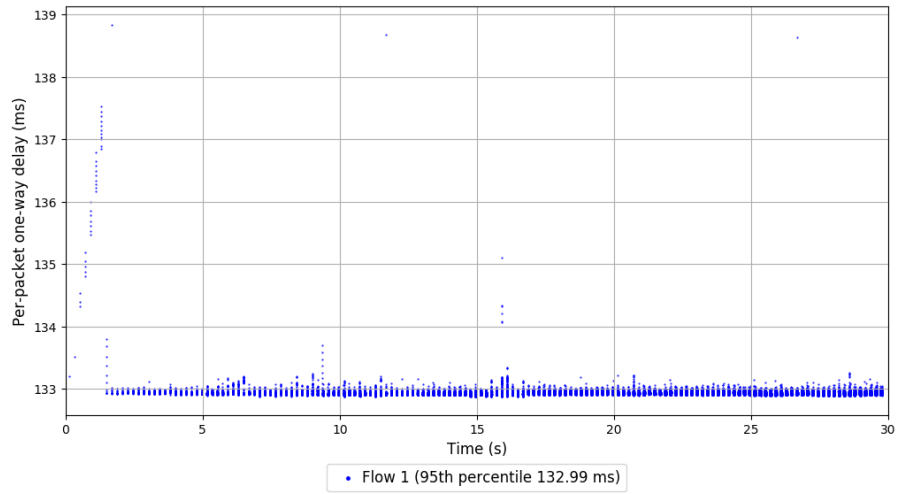
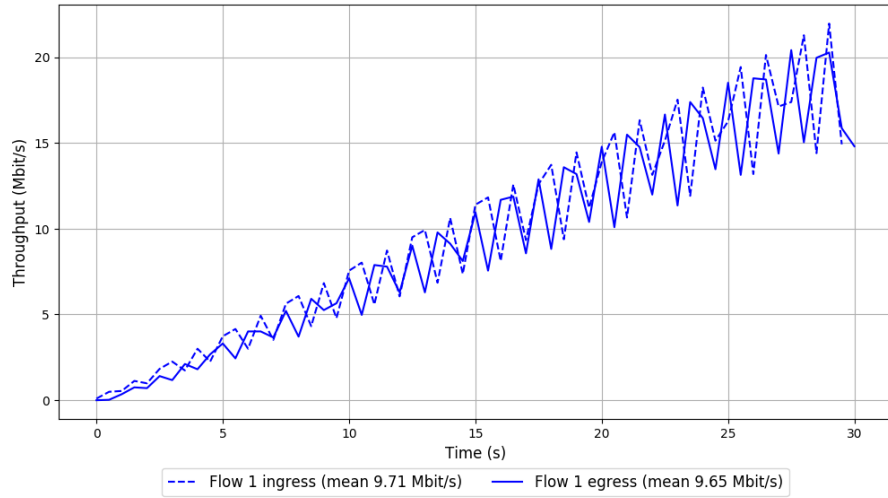


Run 5: Statistics of LEDBAT

Start at: 2019-11-24 13:52:48  
End at: 2019-11-24 13:53:18  
Local clock offset: -2.206 ms  
Remote clock offset: -38.01 ms

# Below is generated by plot.py at 2019-11-24 14:40:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 9.65 Mbit/s  
95th percentile per-packet one-way delay: 132.992 ms  
Loss rate: 1.29%  
-- Flow 1:  
Average throughput: 9.65 Mbit/s  
95th percentile per-packet one-way delay: 132.992 ms  
Loss rate: 1.29%

Run 5: Report of LEDBAT — Data Link

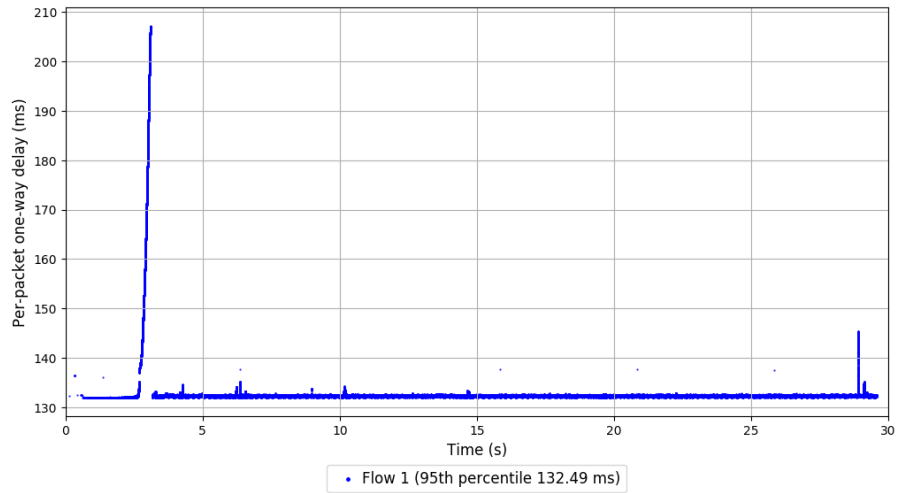
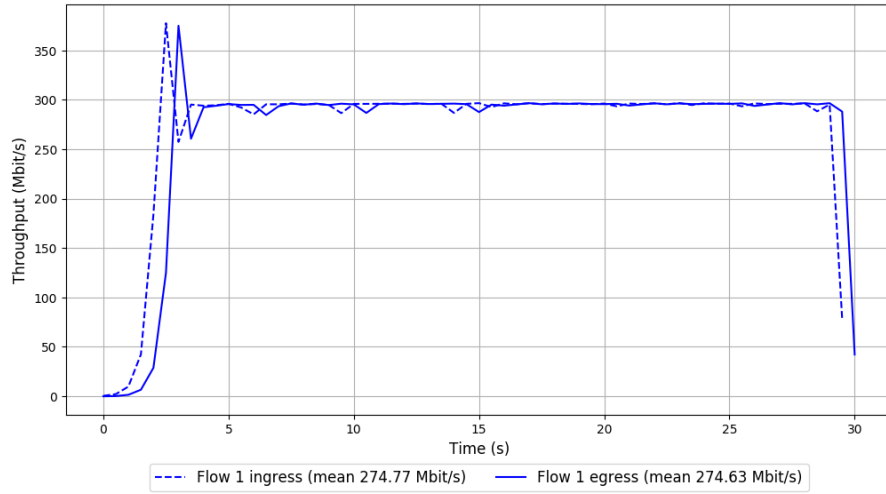


Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 12:06:25  
End at: 2019-11-24 12:06:55  
Local clock offset: -2.764 ms  
Remote clock offset: -39.455 ms

# Below is generated by plot.py at 2019-11-24 14:41:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 274.63 Mbit/s  
95th percentile per-packet one-way delay: 132.489 ms  
Loss rate: 0.70%  
-- Flow 1:  
Average throughput: 274.63 Mbit/s  
95th percentile per-packet one-way delay: 132.489 ms  
Loss rate: 0.70%

Run 1: Report of Muses\_DecisionTree — Data Link

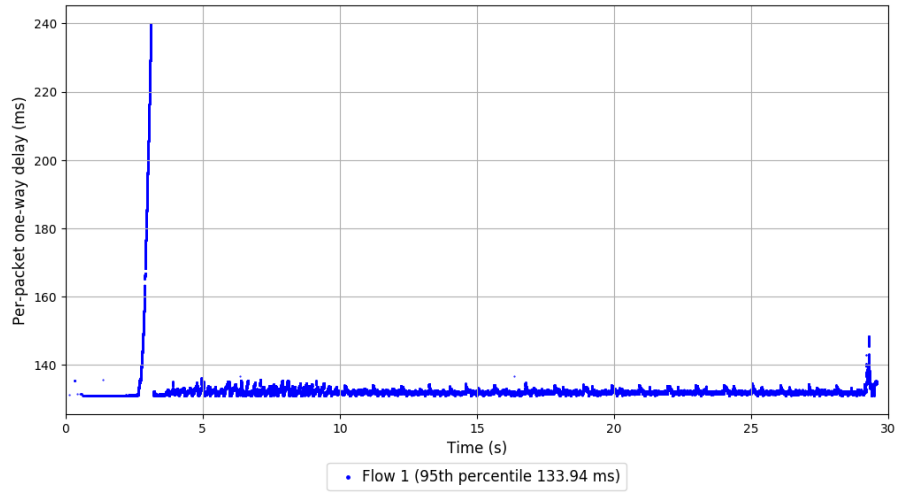
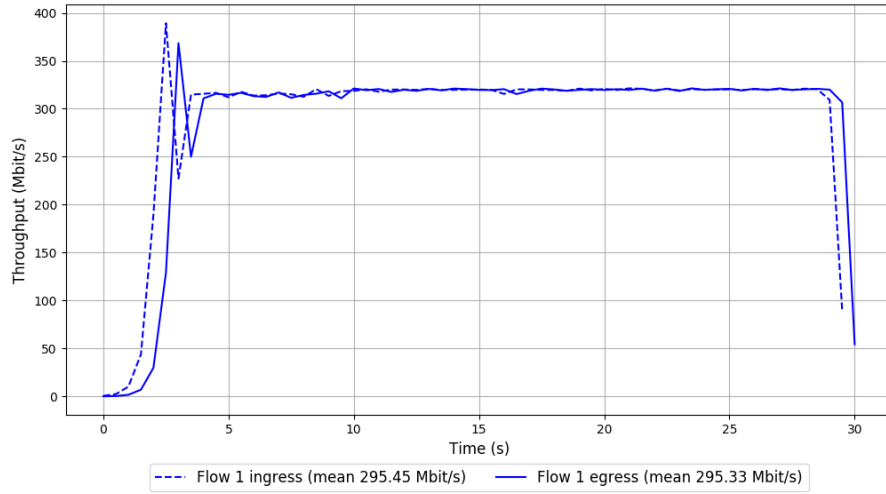


Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 12:37:20  
End at: 2019-11-24 12:37:50  
Local clock offset: -3.392 ms  
Remote clock offset: -38.267 ms

# Below is generated by plot.py at 2019-11-24 14:41:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 295.33 Mbit/s  
95th percentile per-packet one-way delay: 133.936 ms  
Loss rate: 0.70%  
-- Flow 1:  
Average throughput: 295.33 Mbit/s  
95th percentile per-packet one-way delay: 133.936 ms  
Loss rate: 0.70%

Run 2: Report of Muses\_DecisionTree — Data Link

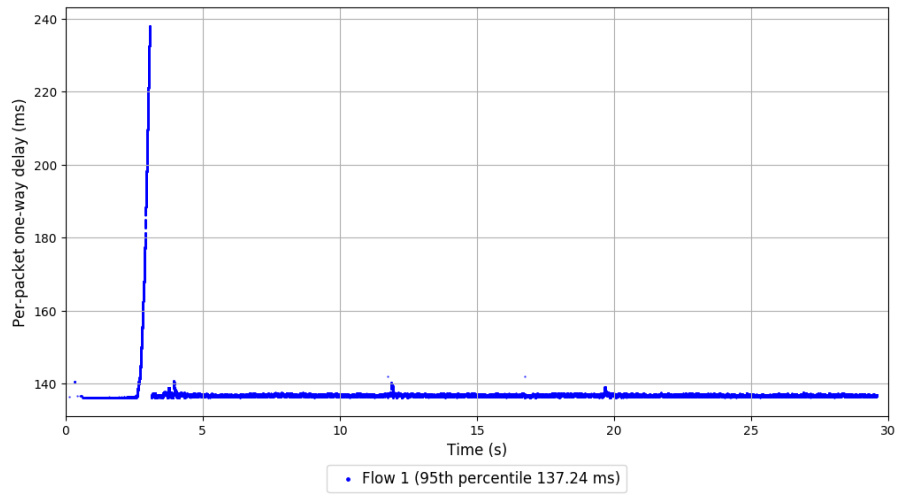
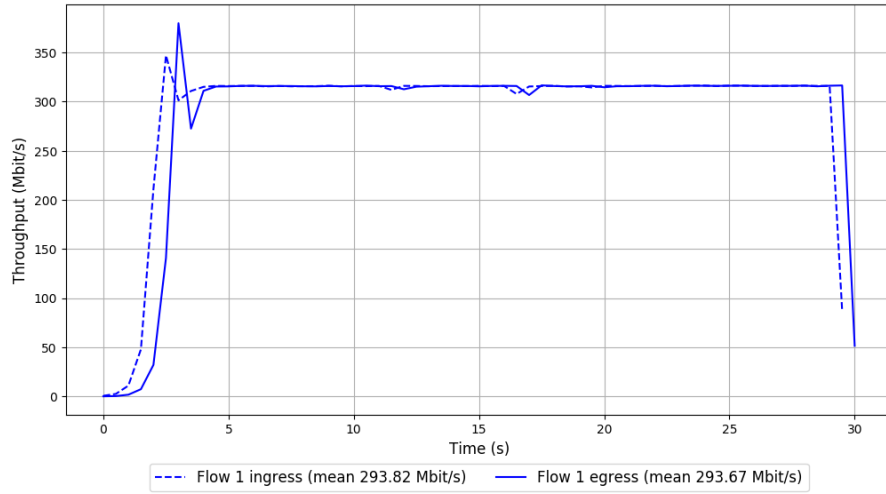


Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 13:08:25  
End at: 2019-11-24 13:08:55  
Local clock offset: -0.221 ms  
Remote clock offset: -39.975 ms

# Below is generated by plot.py at 2019-11-24 14:42:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 293.67 Mbit/s  
95th percentile per-packet one-way delay: 137.236 ms  
Loss rate: 0.70%  
-- Flow 1:  
Average throughput: 293.67 Mbit/s  
95th percentile per-packet one-way delay: 137.236 ms  
Loss rate: 0.70%

Run 3: Report of Muses\_DecisionTree — Data Link



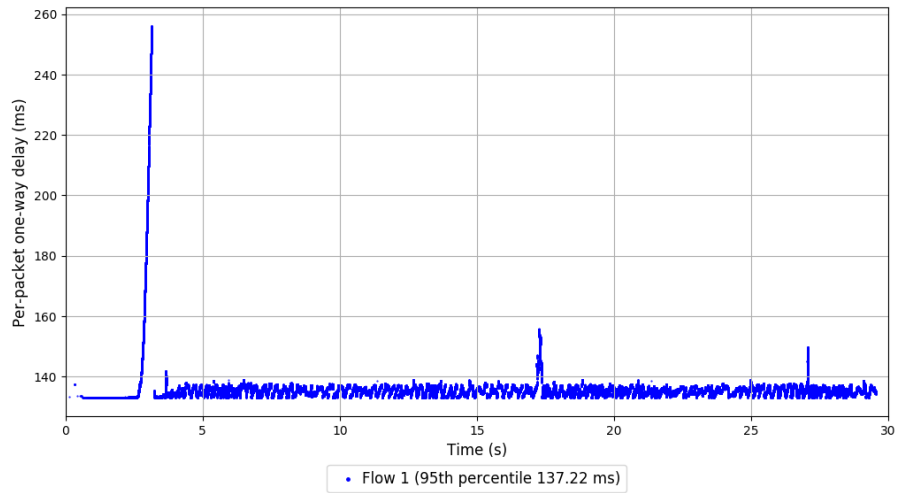
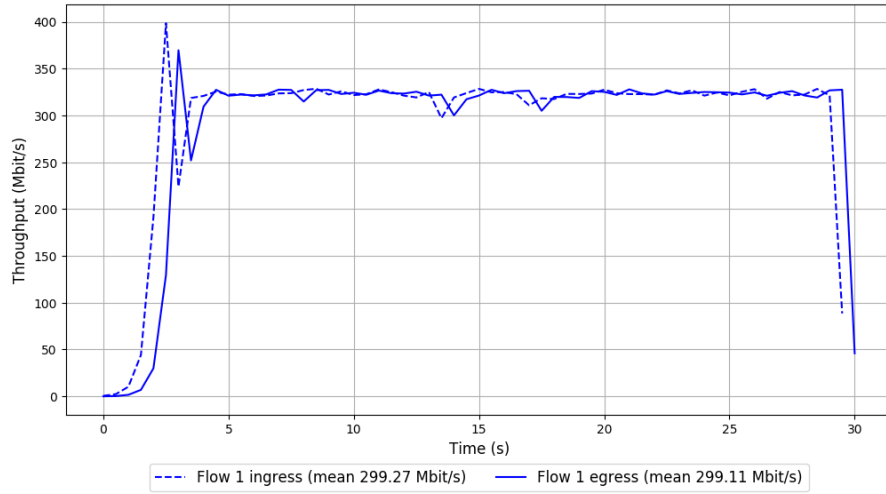


Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 13:39:29  
End at: 2019-11-24 13:39:59  
Local clock offset: -0.66 ms  
Remote clock offset: -36.794 ms

# Below is generated by plot.py at 2019-11-24 14:42:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 299.11 Mbit/s  
95th percentile per-packet one-way delay: 137.222 ms  
Loss rate: 0.72%  
-- Flow 1:  
Average throughput: 299.11 Mbit/s  
95th percentile per-packet one-way delay: 137.222 ms  
Loss rate: 0.72%

Run 4: Report of Muses\_DecisionTree — Data Link

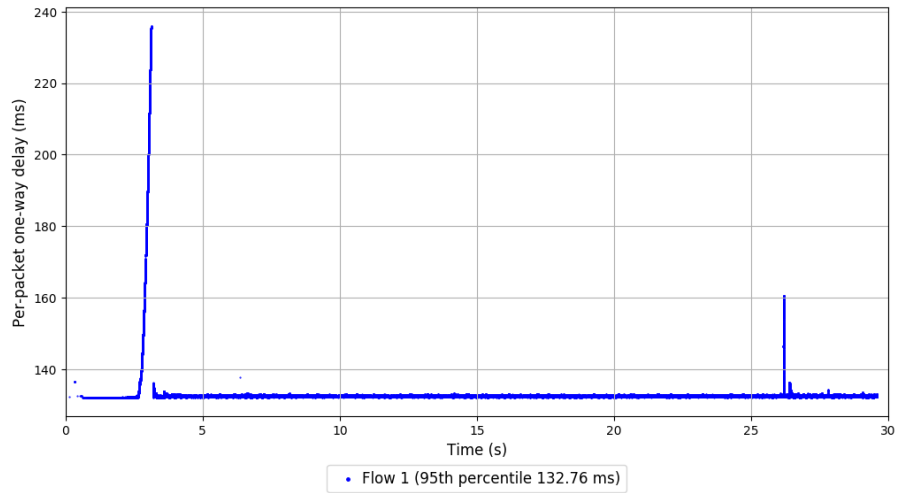
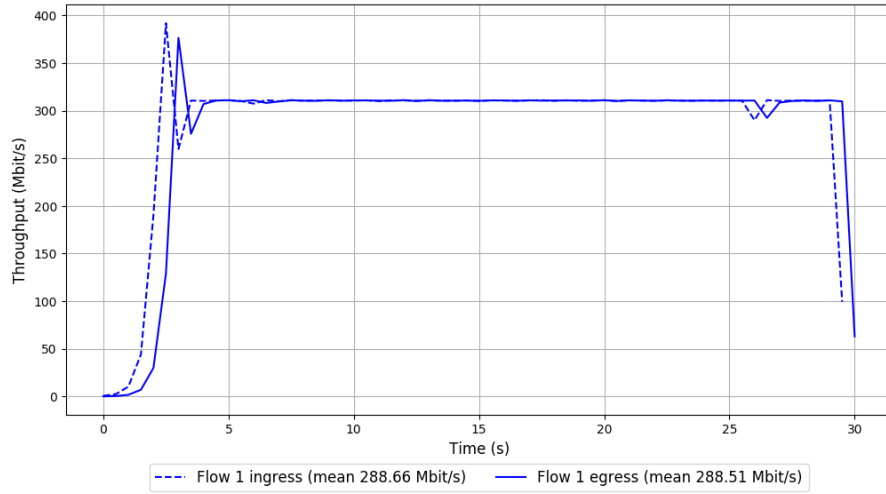


Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 14:10:30  
End at: 2019-11-24 14:11:00  
Local clock offset: -3.418 ms  
Remote clock offset: -38.867 ms

# Below is generated by plot.py at 2019-11-24 14:42:42  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 288.51 Mbit/s  
95th percentile per-packet one-way delay: 132.763 ms  
Loss rate: 0.70%  
-- Flow 1:  
Average throughput: 288.51 Mbit/s  
95th percentile per-packet one-way delay: 132.763 ms  
Loss rate: 0.70%

Run 5: Report of Muses\_DecisionTree — Data Link



Run 1: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 11:56:08

End at: 2019-11-24 11:56:38

Local clock offset: 0.131 ms

Remote clock offset: -41.771 ms

Run 1: Report of Muses\_DecisionTreeH0 — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 12:27:00

End at: 2019-11-24 12:27:30

Local clock offset: -2.778 ms

Remote clock offset: -38.273 ms

Run 2: Report of Muses\_DecisionTreeH0 — Data Link

Figure is missing

Figure is missing



Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 12:58:05

End at: 2019-11-24 12:58:35

Local clock offset: -3.991 ms

Remote clock offset: -39.732 ms

Run 3: Report of Muses\_DecisionTreeH0 — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 13:29:08

End at: 2019-11-24 13:29:38

Local clock offset: -2.532 ms

Remote clock offset: -36.926 ms

Run 4: Report of Muses\_DecisionTreeH0 — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 14:00:09

End at: 2019-11-24 14:00:39

Local clock offset: -1.484 ms

Remote clock offset: -42.013 ms

Run 5: Report of Muses\_DecisionTreeH0 — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 11:46:07

End at: 2019-11-24 11:46:37

Local clock offset: -0.85 ms

Remote clock offset: -39.658 ms

Run 1: Report of Muses\_DecisionTreeR0 — Data Link

Figure is missing

Figure is missing



Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 12:17:10

End at: 2019-11-24 12:17:40

Local clock offset: -0.446 ms

Remote clock offset: -41.333 ms

Run 2: Report of Muses\_DecisionTreeR0 — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 12:48:08

End at: 2019-11-24 12:48:38

Local clock offset: -2.226 ms

Remote clock offset: -39.999 ms

Run 3: Report of Muses\_DecisionTreeR0 — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 13:19:19

End at: 2019-11-24 13:19:49

Local clock offset: 0.148 ms

Remote clock offset: -36.81 ms

Run 4: Report of Muses\_DecisionTreeR0 — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 13:50:19

End at: 2019-11-24 13:50:49

Local clock offset: -1.266 ms

Remote clock offset: -40.992 ms

Run 5: Report of Muses\_DecisionTreeR0 — Data Link

Figure is missing

Figure is missing



Run 1: Statistics of PCC-Allegro

Start at: 2019-11-24 12:05:09

End at: 2019-11-24 12:05:39

Local clock offset: -0.164 ms

Remote clock offset: -39.059 ms

# Below is generated by plot.py at 2019-11-24 14:42:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 166.37 Mbit/s

95th percentile per-packet one-way delay: 246.387 ms

Loss rate: 1.84%

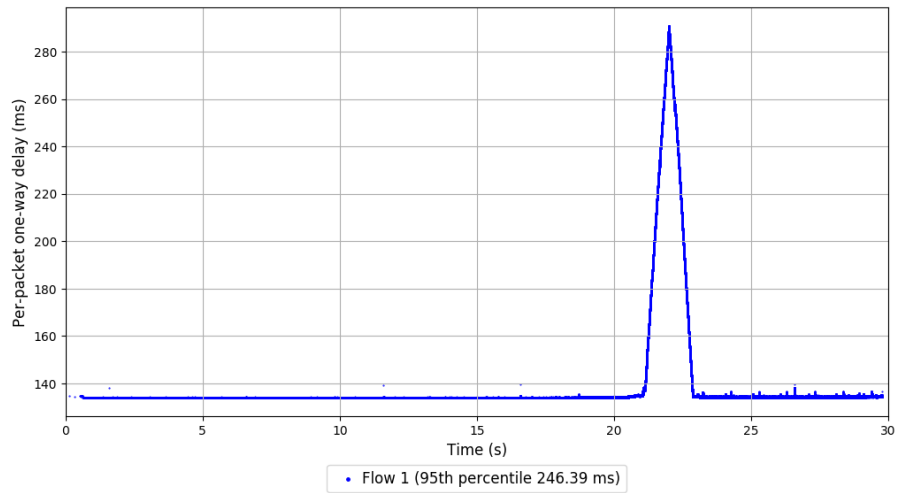
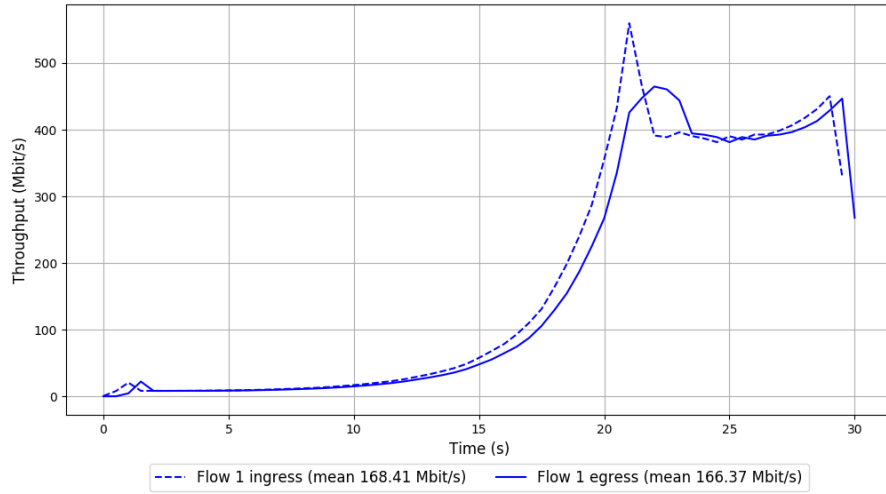
-- Flow 1:

Average throughput: 166.37 Mbit/s

95th percentile per-packet one-way delay: 246.387 ms

Loss rate: 1.84%

### Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-11-24 12:35:59

End at: 2019-11-24 12:36:29

Local clock offset: -0.469 ms

Remote clock offset: -38.123 ms

# Below is generated by plot.py at 2019-11-24 14:43:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 313.50 Mbit/s

95th percentile per-packet one-way delay: 138.599 ms

Loss rate: 0.87%

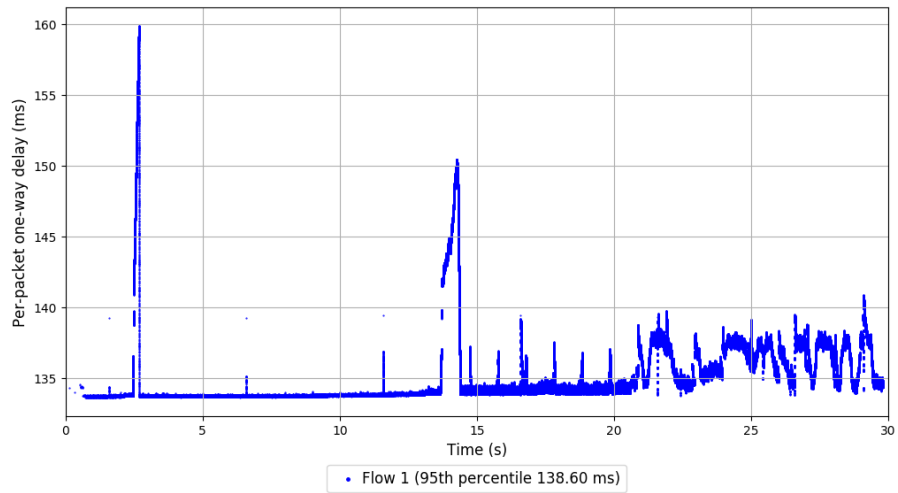
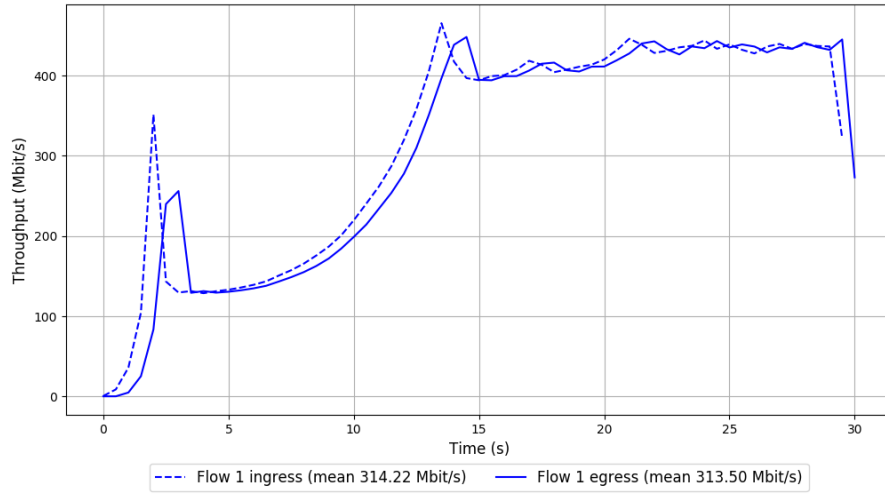
-- Flow 1:

Average throughput: 313.50 Mbit/s

95th percentile per-packet one-way delay: 138.599 ms

Loss rate: 0.87%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-11-24 13:07:04

End at: 2019-11-24 13:07:34

Local clock offset: 0.253 ms

Remote clock offset: -37.506 ms

# Below is generated by plot.py at 2019-11-24 14:43:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 307.26 Mbit/s

95th percentile per-packet one-way delay: 137.617 ms

Loss rate: 0.89%

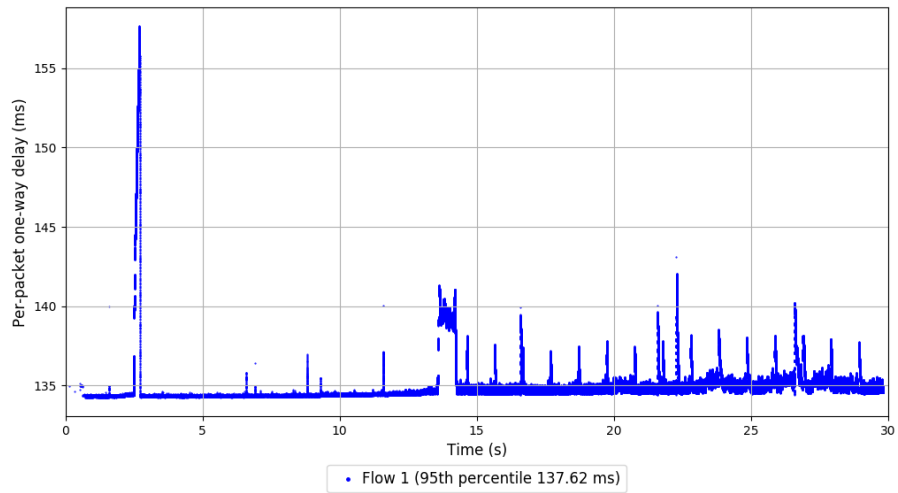
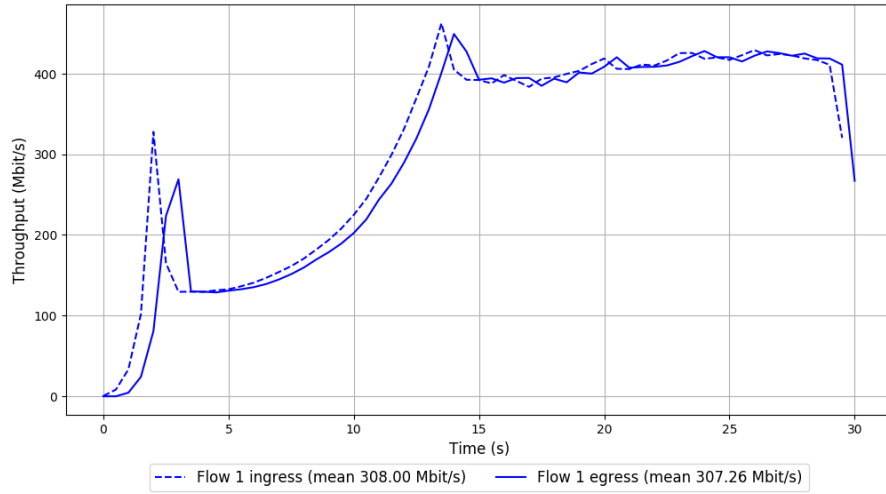
-- Flow 1:

Average throughput: 307.26 Mbit/s

95th percentile per-packet one-way delay: 137.617 ms

Loss rate: 0.89%

### Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-11-24 13:38:09

End at: 2019-11-24 13:38:39

Local clock offset: -2.708 ms

Remote clock offset: -39.374 ms

# Below is generated by plot.py at 2019-11-24 14:44:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 313.16 Mbit/s

95th percentile per-packet one-way delay: 138.777 ms

Loss rate: 0.87%

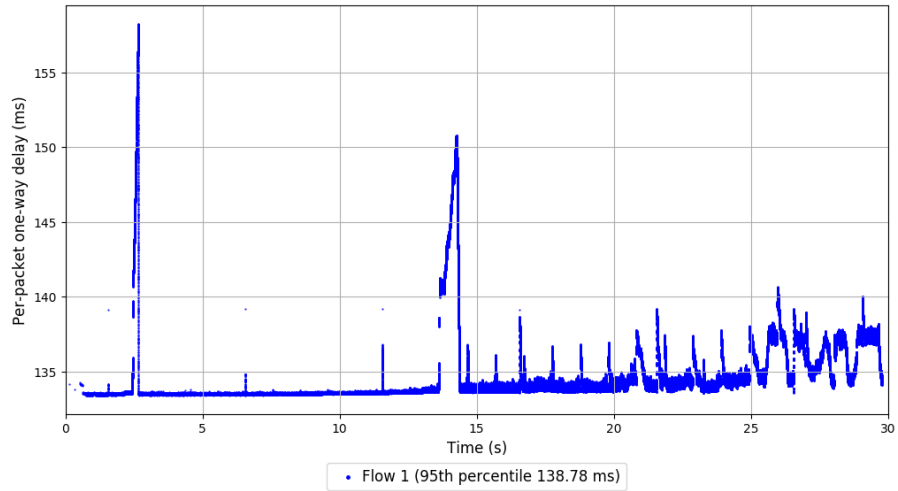
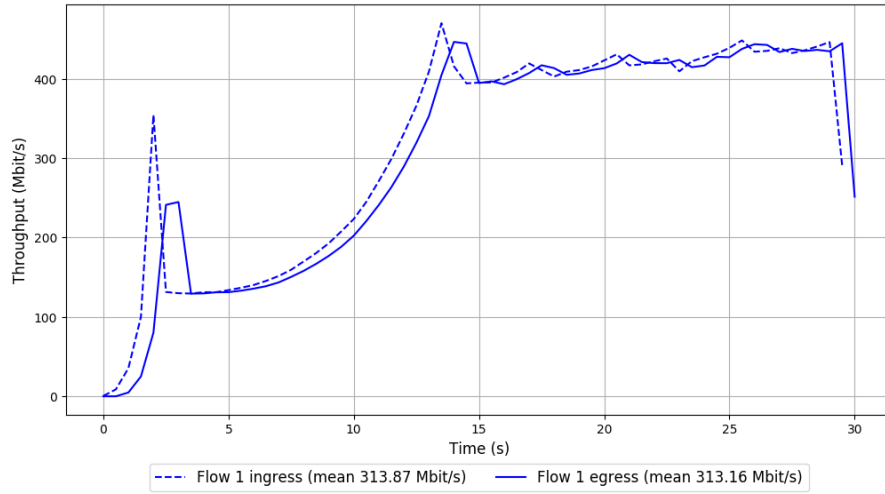
-- Flow 1:

Average throughput: 313.16 Mbit/s

95th percentile per-packet one-way delay: 138.777 ms

Loss rate: 0.87%

Run 4: Report of PCC-Allegro — Data Link





Run 5: Statistics of PCC-Allegro

Start at: 2019-11-24 14:09:10

End at: 2019-11-24 14:09:40

Local clock offset: -2.513 ms

Remote clock offset: -39.677 ms

# Below is generated by plot.py at 2019-11-24 14:45:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 309.50 Mbit/s

95th percentile per-packet one-way delay: 138.330 ms

Loss rate: 0.87%

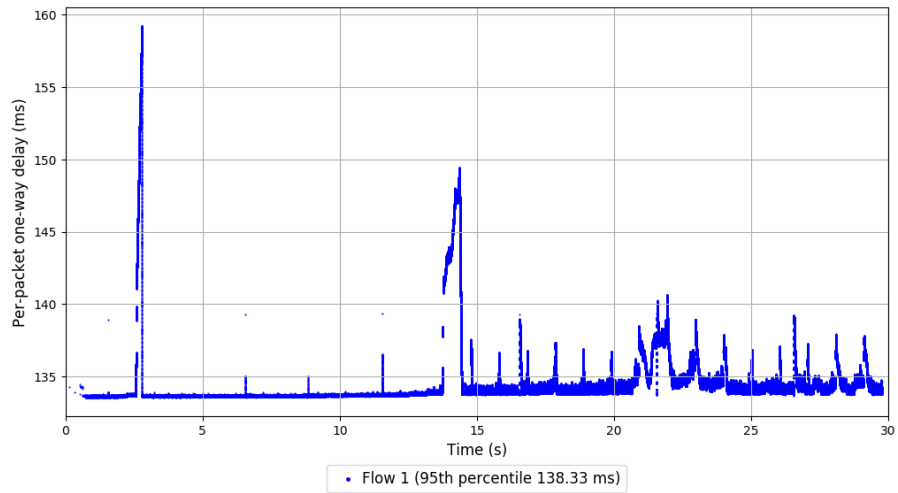
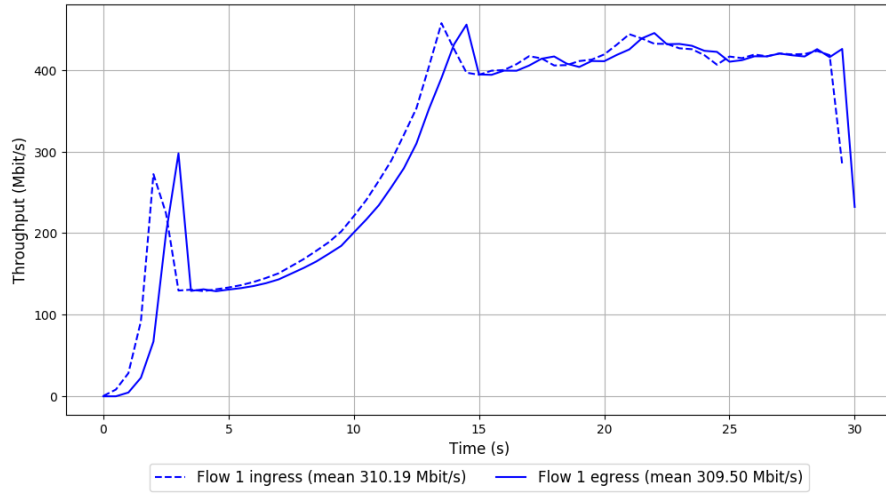
-- Flow 1:

Average throughput: 309.50 Mbit/s

95th percentile per-packet one-way delay: 138.330 ms

Loss rate: 0.87%

Run 5: Report of PCC-Allegro — Data Link

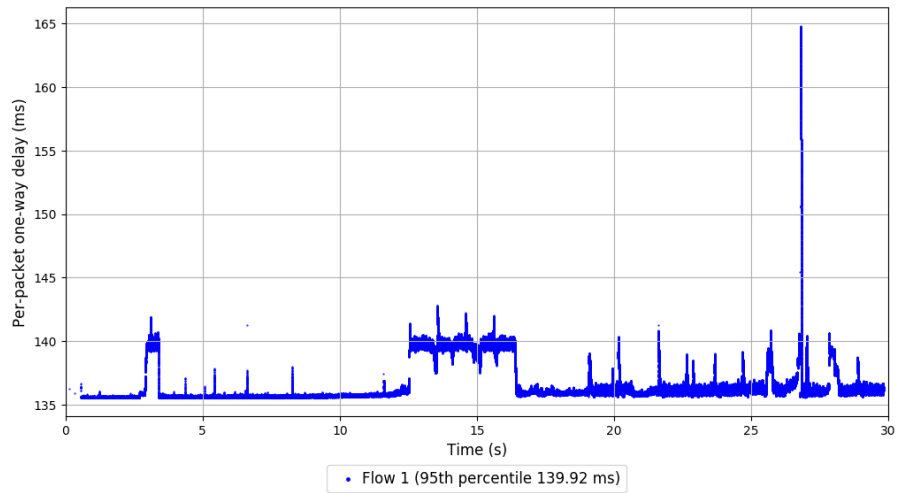
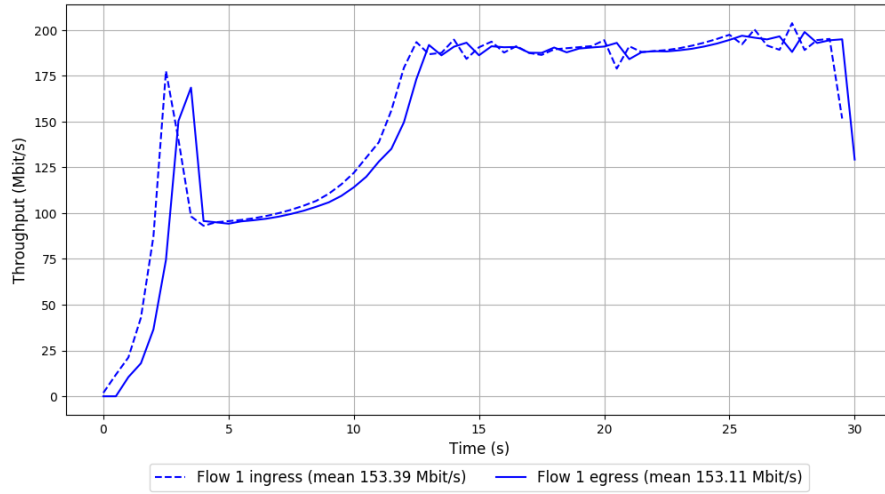


Run 1: Statistics of PCC-Expr

Start at: 2019-11-24 11:58:40  
End at: 2019-11-24 11:59:10  
Local clock offset: -0.84 ms  
Remote clock offset: -41.535 ms

# Below is generated by plot.py at 2019-11-24 14:45:11  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 153.11 Mbit/s  
95th percentile per-packet one-way delay: 139.918 ms  
Loss rate: 0.82%  
-- Flow 1:  
Average throughput: 153.11 Mbit/s  
95th percentile per-packet one-way delay: 139.918 ms  
Loss rate: 0.82%

# Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-11-24 12:29:32  
End at: 2019-11-24 12:30:02  
Local clock offset: -2.958 ms  
Remote clock offset: -40.089 ms

# Below is generated by plot.py at 2019-11-24 14:45:43

# Datalink statistics

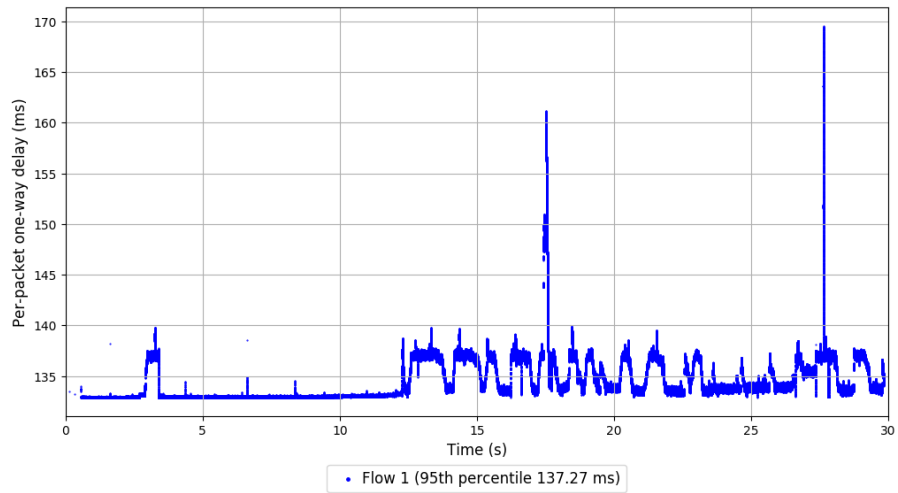
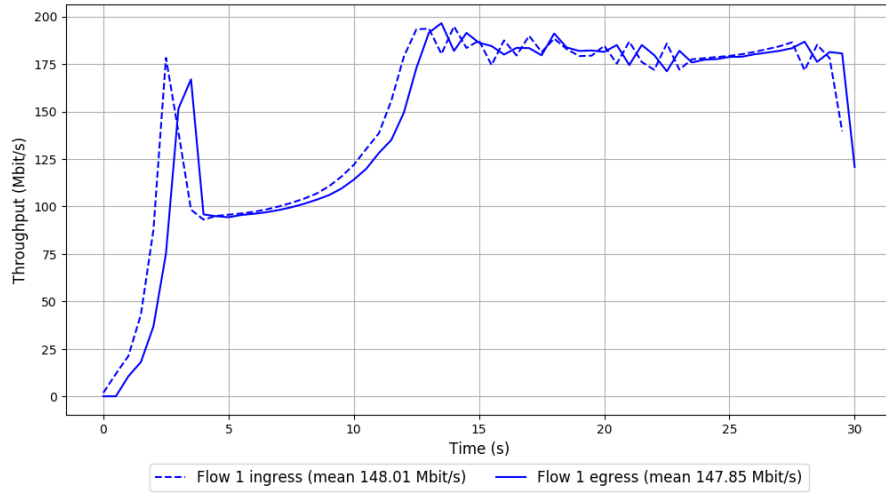
-- Total of 1 flow:

Average throughput: 147.85 Mbit/s  
95th percentile per-packet one-way delay: 137.271 ms  
Loss rate: 0.75%

-- Flow 1:

Average throughput: 147.85 Mbit/s  
95th percentile per-packet one-way delay: 137.271 ms  
Loss rate: 0.75%

## Run 2: Report of PCC-Expr — Data Link

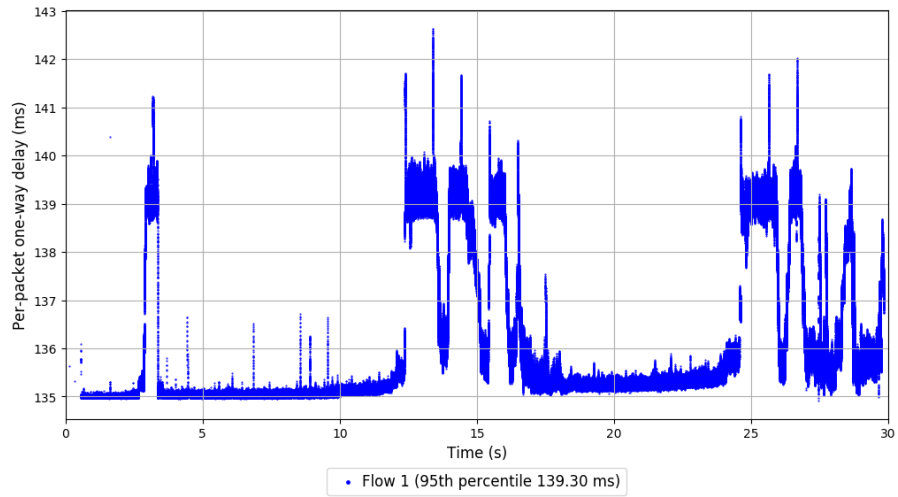
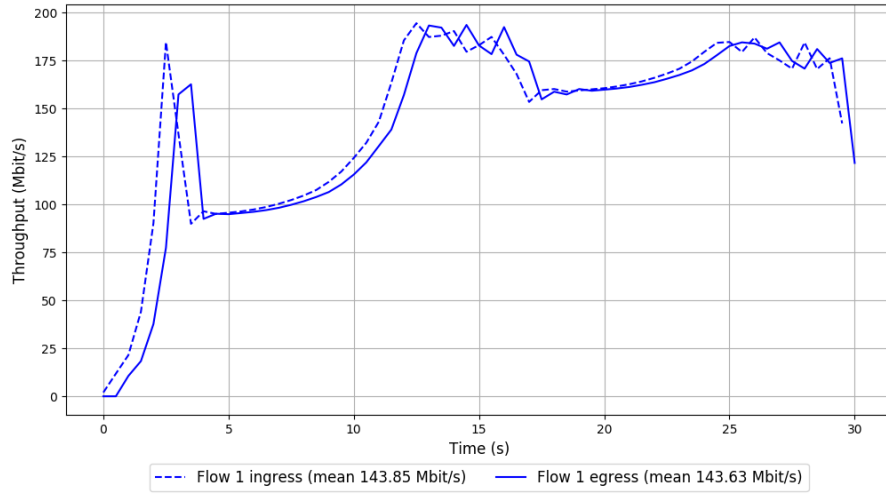


Run 3: Statistics of PCC-Expr

Start at: 2019-11-24 13:00:38  
End at: 2019-11-24 13:01:08  
Local clock offset: -1.233 ms  
Remote clock offset: -39.829 ms

# Below is generated by plot.py at 2019-11-24 14:45:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 143.63 Mbit/s  
95th percentile per-packet one-way delay: 139.298 ms  
Loss rate: 0.80%  
-- Flow 1:  
Average throughput: 143.63 Mbit/s  
95th percentile per-packet one-way delay: 139.298 ms  
Loss rate: 0.80%

### Run 3: Report of PCC-Expr — Data Link



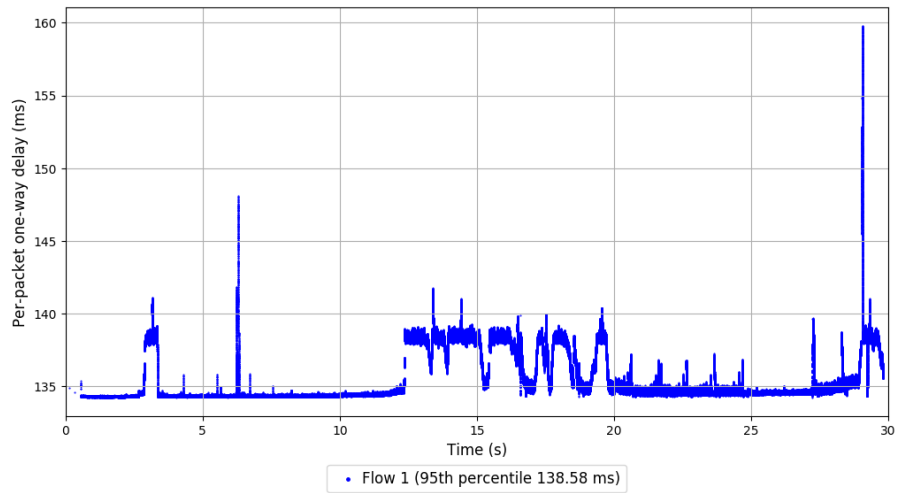
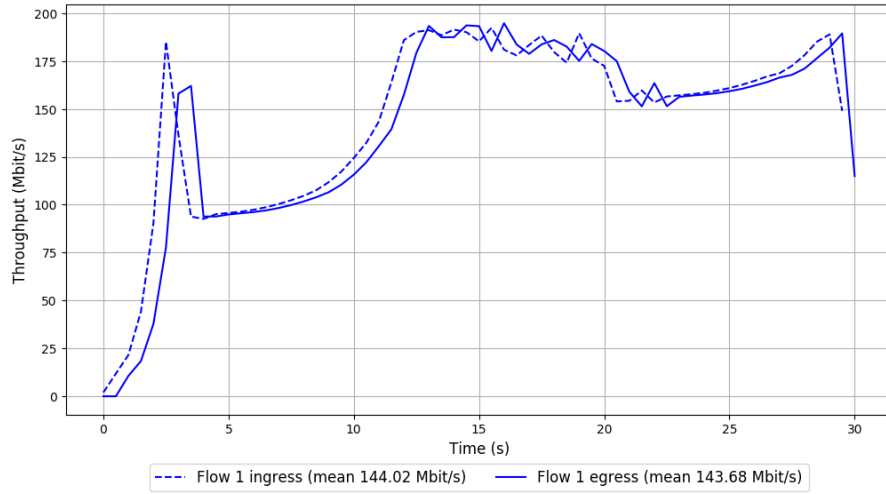


Run 4: Statistics of PCC-Expr

Start at: 2019-11-24 13:31:40  
End at: 2019-11-24 13:32:10  
Local clock offset: 0.507 ms  
Remote clock offset: -36.998 ms

# Below is generated by plot.py at 2019-11-24 14:46:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 143.68 Mbit/s  
95th percentile per-packet one-way delay: 138.583 ms  
Loss rate: 1.00%  
-- Flow 1:  
Average throughput: 143.68 Mbit/s  
95th percentile per-packet one-way delay: 138.583 ms  
Loss rate: 1.00%

### Run 4: Report of PCC-Expr — Data Link

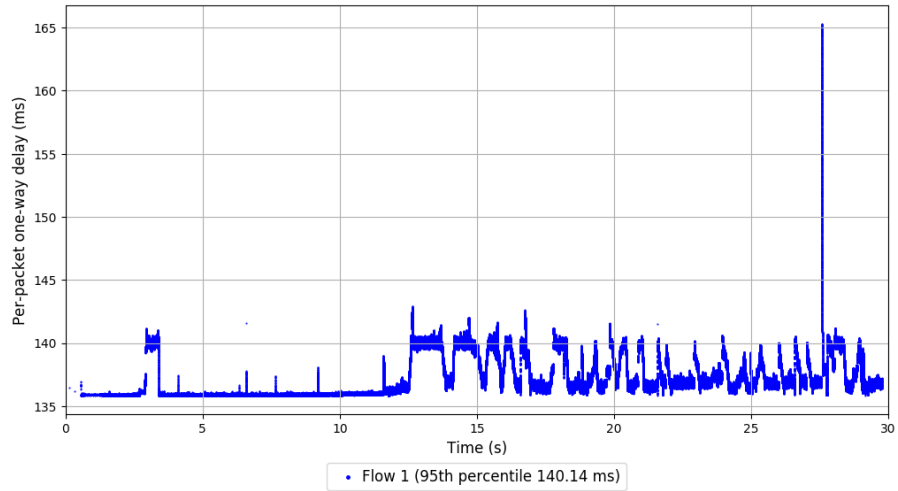
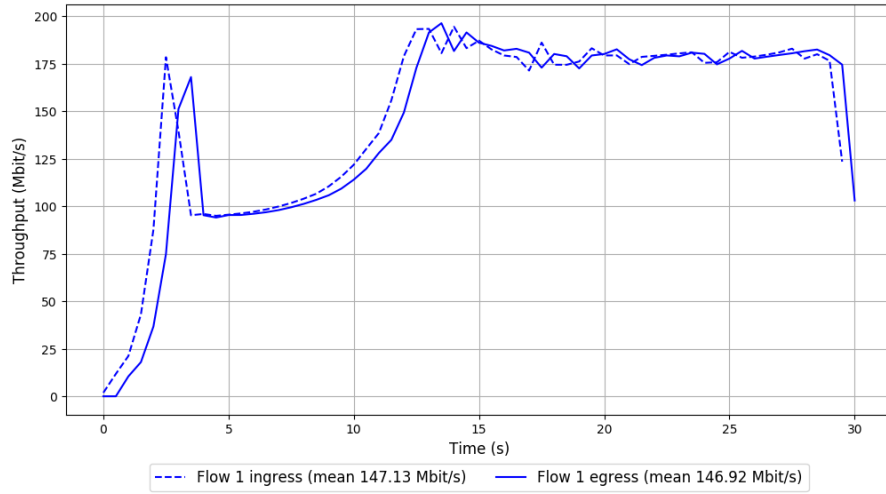


Run 5: Statistics of PCC-Expr

Start at: 2019-11-24 14:02:41  
End at: 2019-11-24 14:03:11  
Local clock offset: -0.644 ms  
Remote clock offset: -39.728 ms

# Below is generated by plot.py at 2019-11-24 14:46:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 146.92 Mbit/s  
95th percentile per-packet one-way delay: 140.141 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 146.92 Mbit/s  
95th percentile per-packet one-way delay: 140.141 ms  
Loss rate: 0.79%

### Run 5: Report of PCC-Expr — Data Link

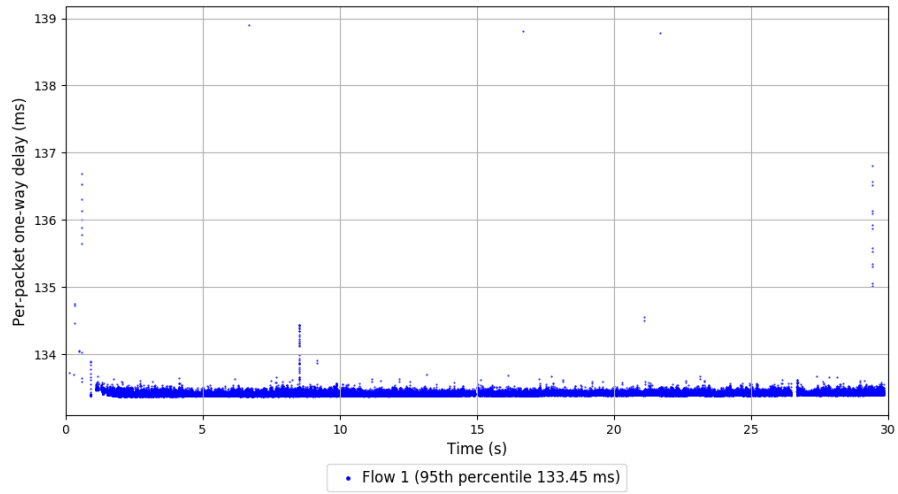
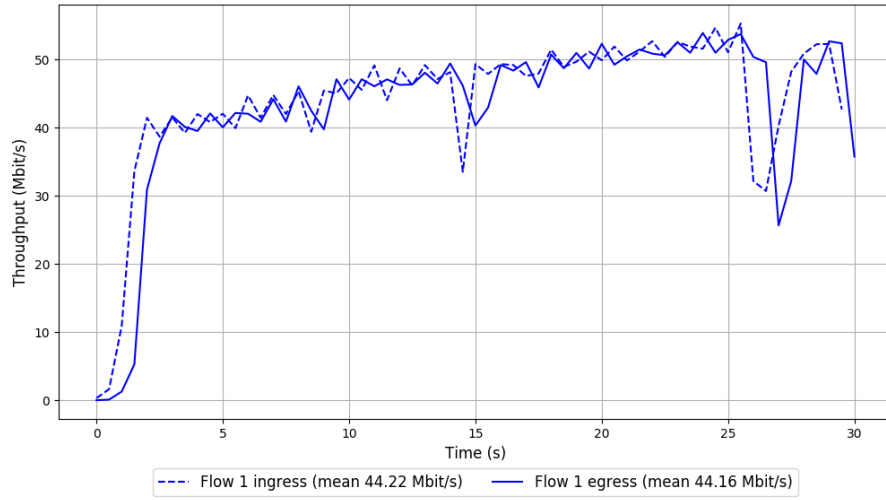


Run 1: Statistics of QUIC Cubic

Start at: 2019-11-24 12:10:26  
End at: 2019-11-24 12:10:56  
Local clock offset: -3.11 ms  
Remote clock offset: -41.217 ms

# Below is generated by plot.py at 2019-11-24 14:46:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 44.16 Mbit/s  
95th percentile per-packet one-way delay: 133.451 ms  
Loss rate: 0.78%  
-- Flow 1:  
Average throughput: 44.16 Mbit/s  
95th percentile per-packet one-way delay: 133.451 ms  
Loss rate: 0.78%

### Run 1: Report of QUIC Cubic — Data Link

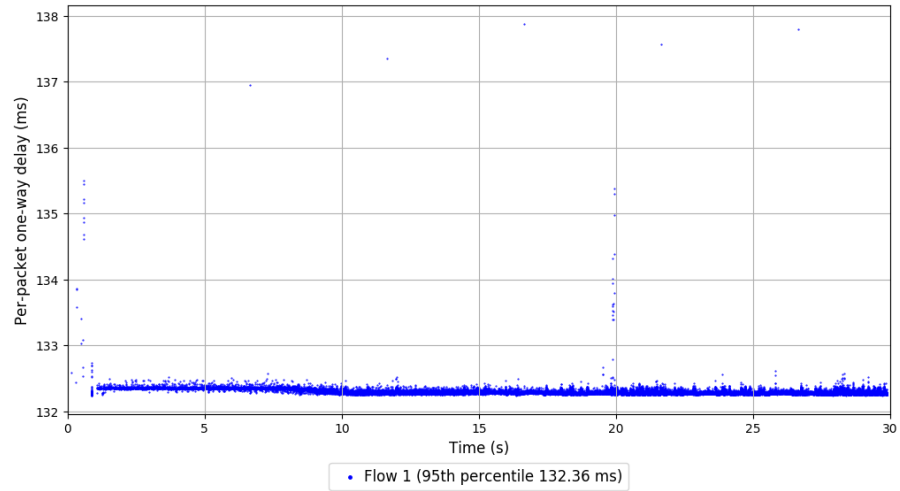
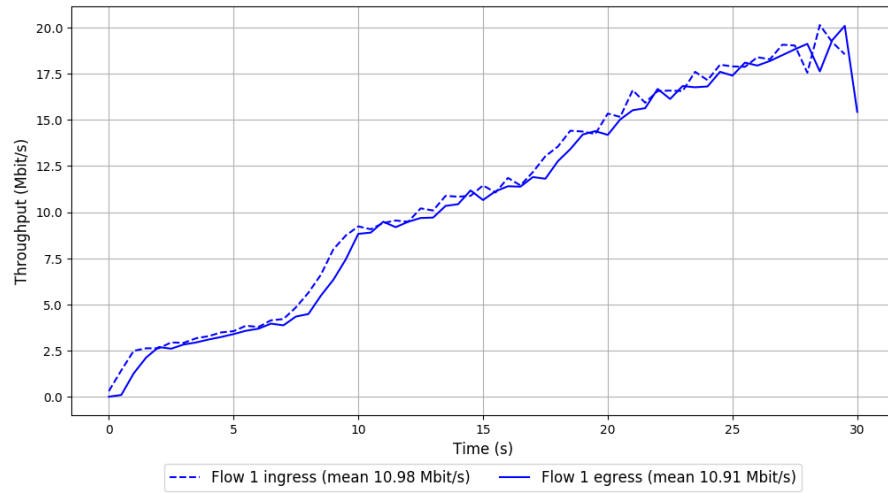


Run 2: Statistics of QUIC Cubic

Start at: 2019-11-24 12:41:29  
End at: 2019-11-24 12:41:59  
Local clock offset: -2.073 ms  
Remote clock offset: -38.036 ms

# Below is generated by plot.py at 2019-11-24 14:46:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 10.91 Mbit/s  
95th percentile per-packet one-way delay: 132.356 ms  
Loss rate: 1.19%  
-- Flow 1:  
Average throughput: 10.91 Mbit/s  
95th percentile per-packet one-way delay: 132.356 ms  
Loss rate: 1.19%

## Run 2: Report of QUIC Cubic — Data Link



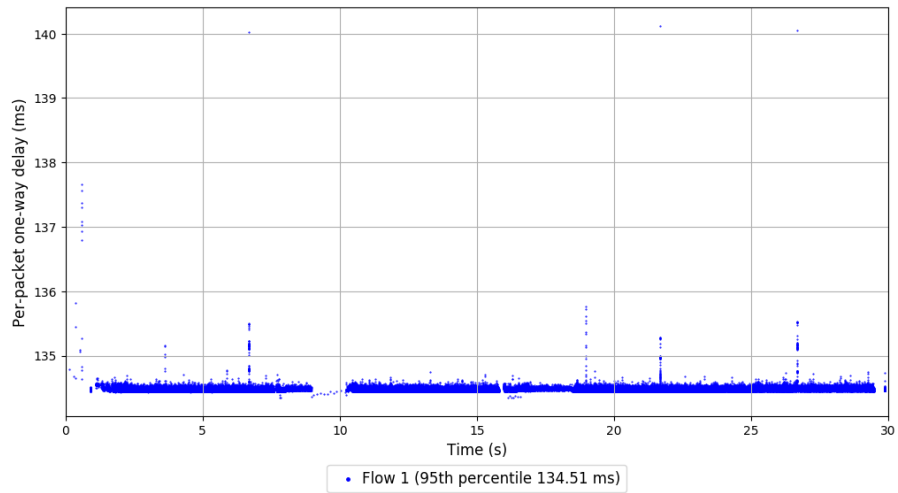
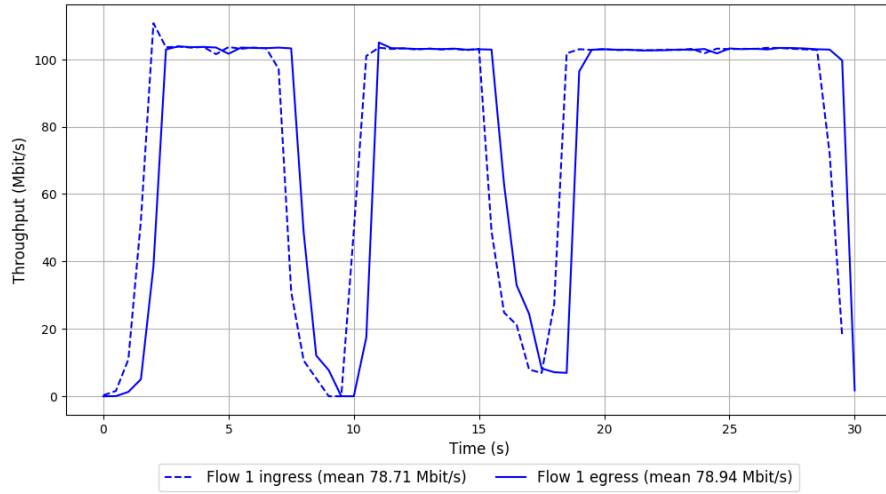


Run 3: Statistics of QUIC Cubic

Start at: 2019-11-24 13:12:35  
End at: 2019-11-24 13:13:05  
Local clock offset: 0.103 ms  
Remote clock offset: -37.721 ms

# Below is generated by plot.py at 2019-11-24 14:46:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 78.94 Mbit/s  
95th percentile per-packet one-way delay: 134.507 ms  
Loss rate: 0.34%  
-- Flow 1:  
Average throughput: 78.94 Mbit/s  
95th percentile per-packet one-way delay: 134.507 ms  
Loss rate: 0.34%

### Run 3: Report of QUIC Cubic — Data Link

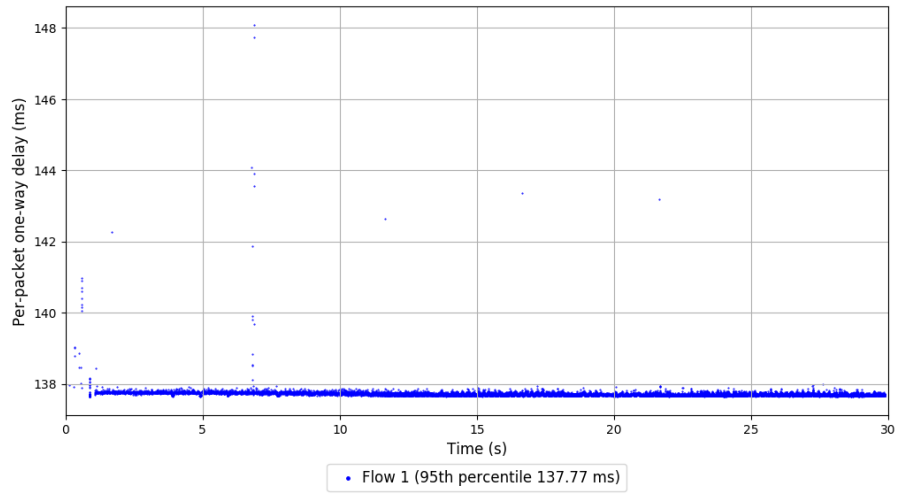
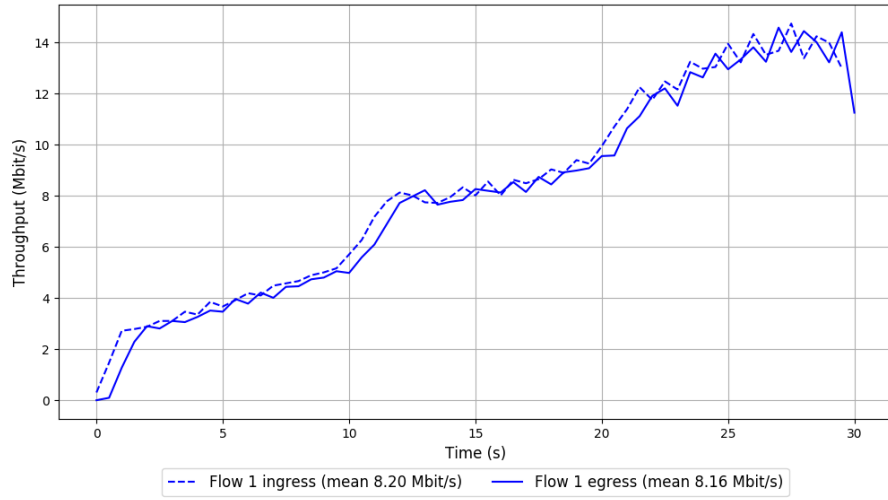


Run 4: Statistics of QUIC Cubic

Start at: 2019-11-24 13:43:39  
End at: 2019-11-24 13:44:09  
Local clock offset: -0.796 ms  
Remote clock offset: -41.493 ms

# Below is generated by plot.py at 2019-11-24 14:46:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 8.16 Mbit/s  
95th percentile per-packet one-way delay: 137.772 ms  
Loss rate: 1.14%  
-- Flow 1:  
Average throughput: 8.16 Mbit/s  
95th percentile per-packet one-way delay: 137.772 ms  
Loss rate: 1.14%

### Run 4: Report of QUIC Cubic — Data Link

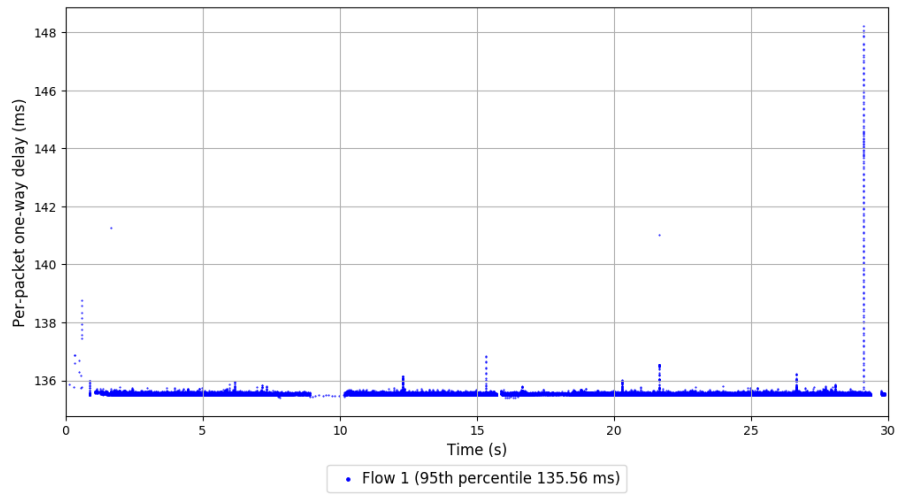
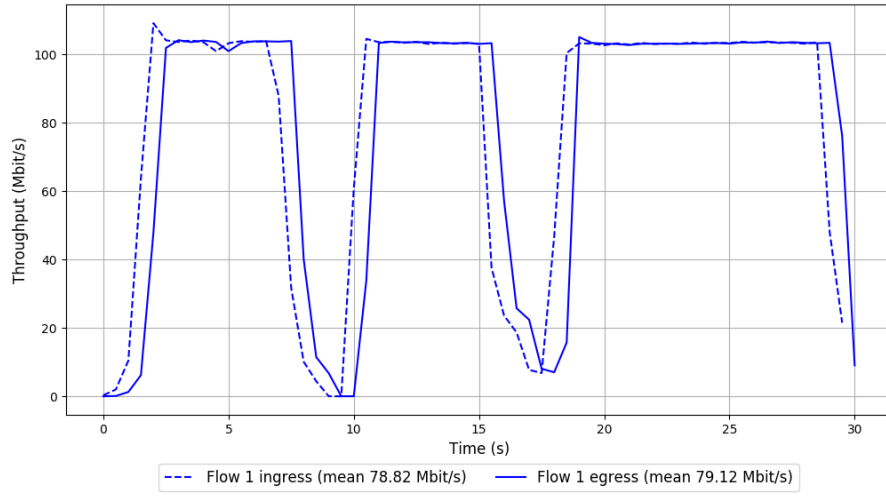


Run 5: Statistics of QUIC Cubic

Start at: 2019-11-24 14:14:39  
End at: 2019-11-24 14:15:09  
Local clock offset: -0.794 ms  
Remote clock offset: -39.776 ms

```
# Below is generated by plot.py at 2019-11-24 14:46:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.12 Mbit/s
95th percentile per-packet one-way delay: 135.556 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 79.12 Mbit/s
95th percentile per-packet one-way delay: 135.556 ms
Loss rate: 0.26%
```

### Run 5: Report of QUIC Cubic — Data Link

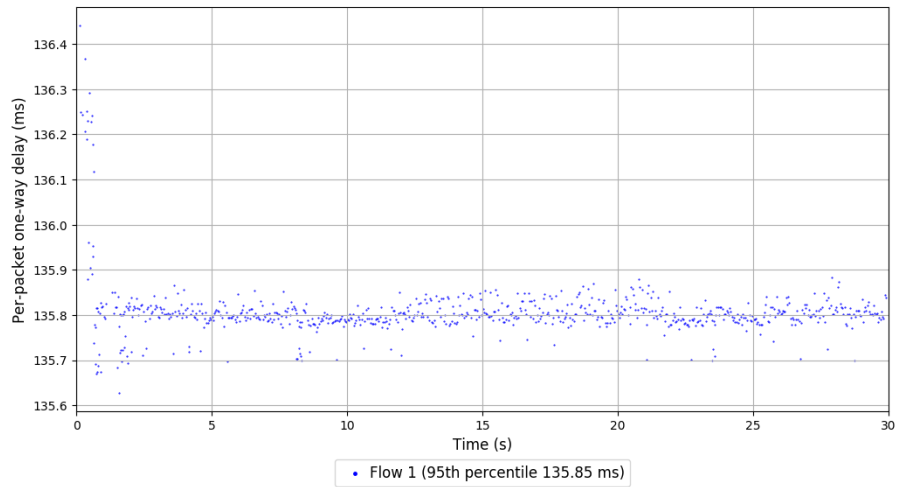
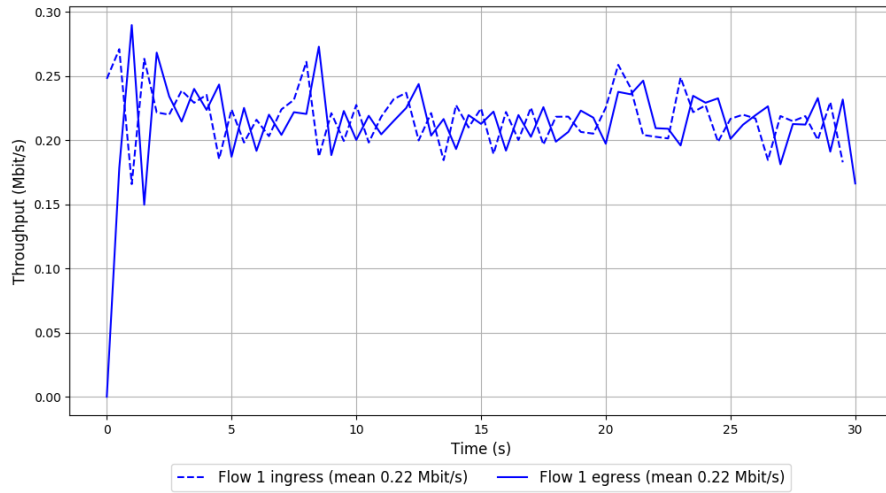


Run 1: Statistics of SCReAM

Start at: 2019-11-24 12:04:00  
End at: 2019-11-24 12:04:30  
Local clock offset: -0.62 ms  
Remote clock offset: -41.237 ms

# Below is generated by plot.py at 2019-11-24 14:46:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 135.852 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 135.852 ms  
Loss rate: 0.51%

### Run 1: Report of SCReAM — Data Link



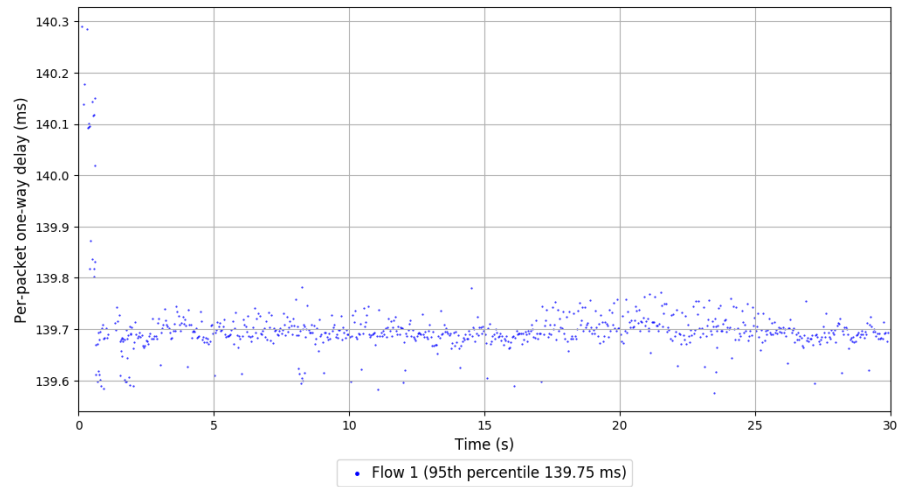
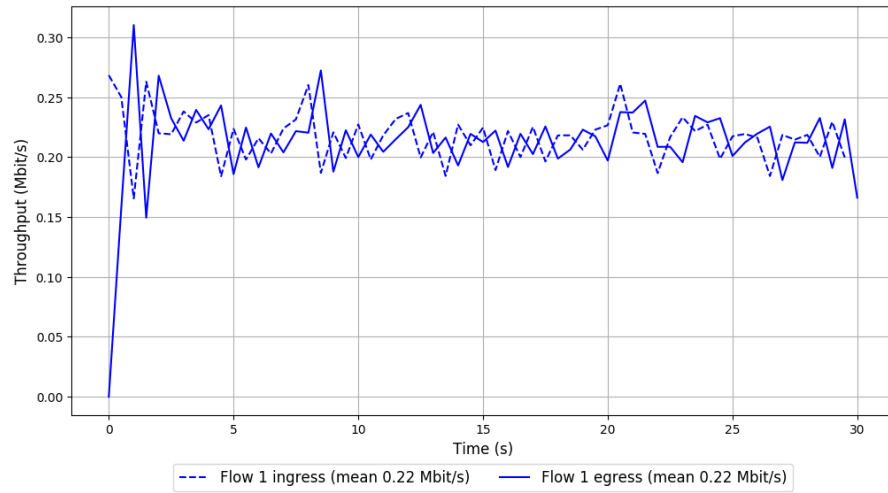


Run 2: Statistics of SCReAM

Start at: 2019-11-24 12:34:49  
End at: 2019-11-24 12:35:19  
Local clock offset: 0.08 ms  
Remote clock offset: -43.575 ms

# Below is generated by plot.py at 2019-11-24 14:46:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 139.749 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 139.749 ms  
Loss rate: 0.64%

## Run 2: Report of SCReAM — Data Link

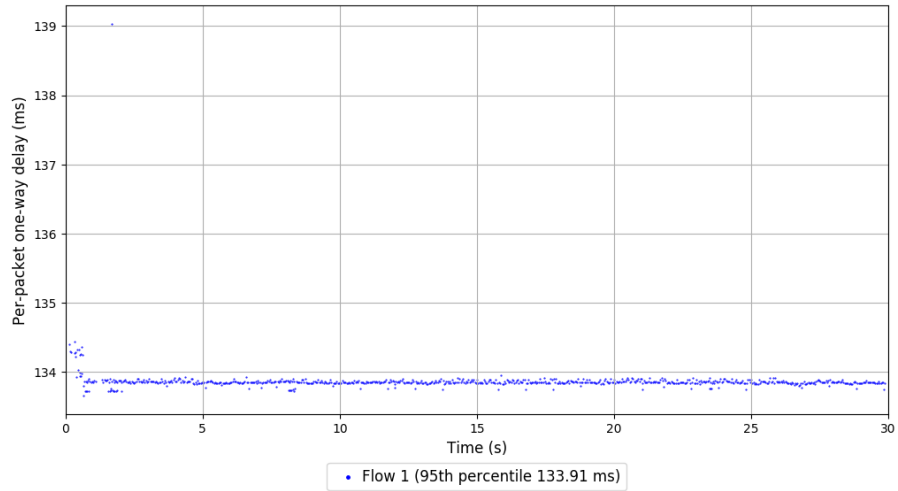
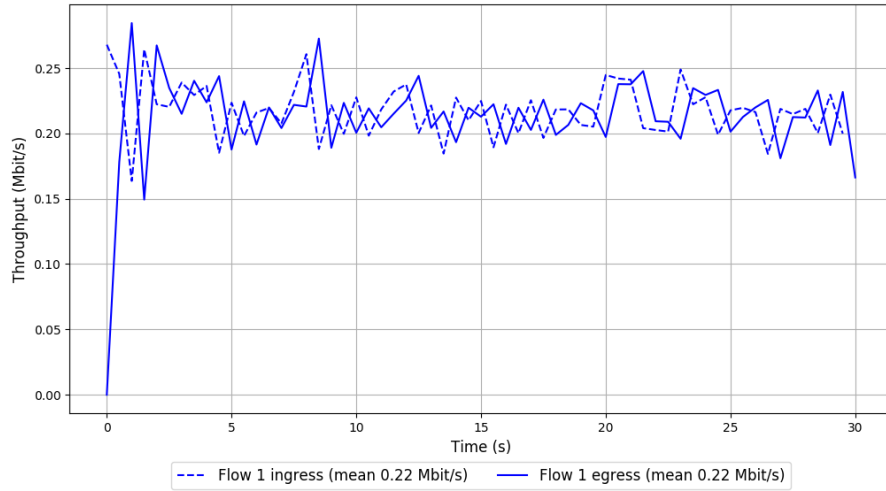


Run 3: Statistics of SCReAM

Start at: 2019-11-24 13:05:54  
End at: 2019-11-24 13:06:24  
Local clock offset: -0.23 ms  
Remote clock offset: -37.532 ms

# Below is generated by plot.py at 2019-11-24 14:46:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 133.908 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 133.908 ms  
Loss rate: 0.64%

### Run 3: Report of SCReAM — Data Link

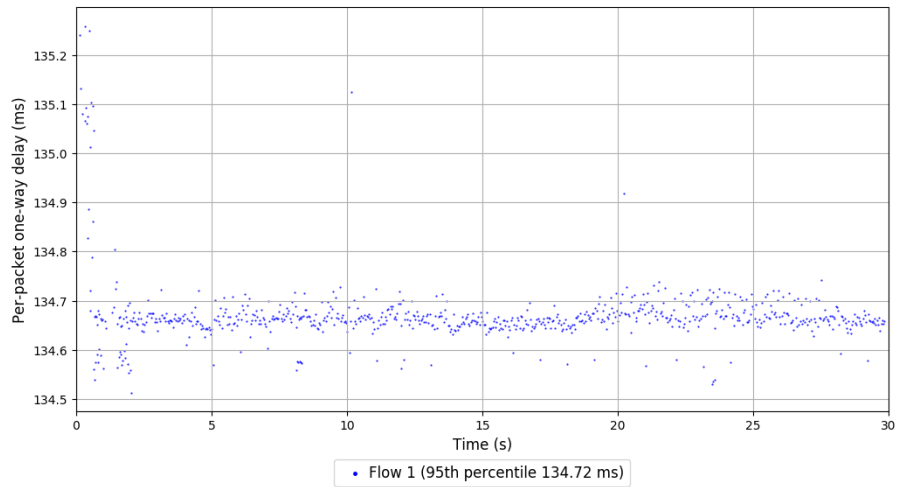
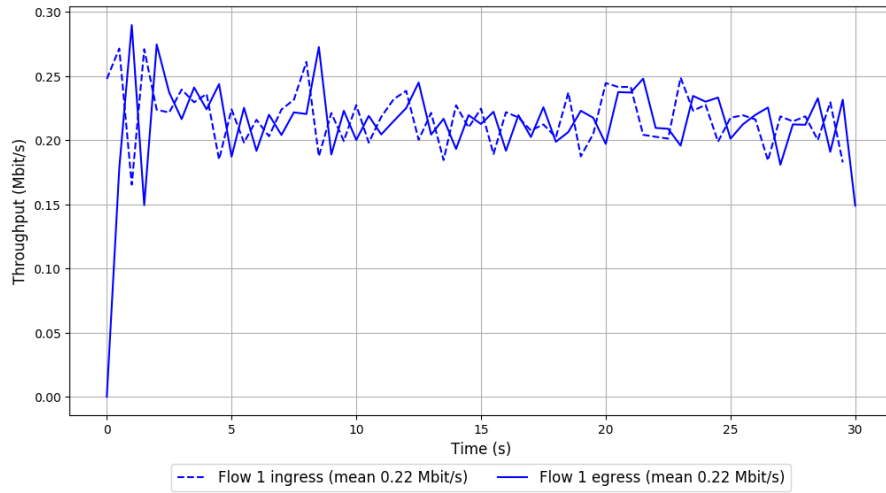


Run 4: Statistics of SCReAM

Start at: 2019-11-24 13:36:59  
End at: 2019-11-24 13:37:29  
Local clock offset: 0.346 ms  
Remote clock offset: -37.206 ms

# Below is generated by plot.py at 2019-11-24 14:46:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 134.719 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 134.719 ms  
Loss rate: 0.64%

### Run 4: Report of SReAM — Data Link

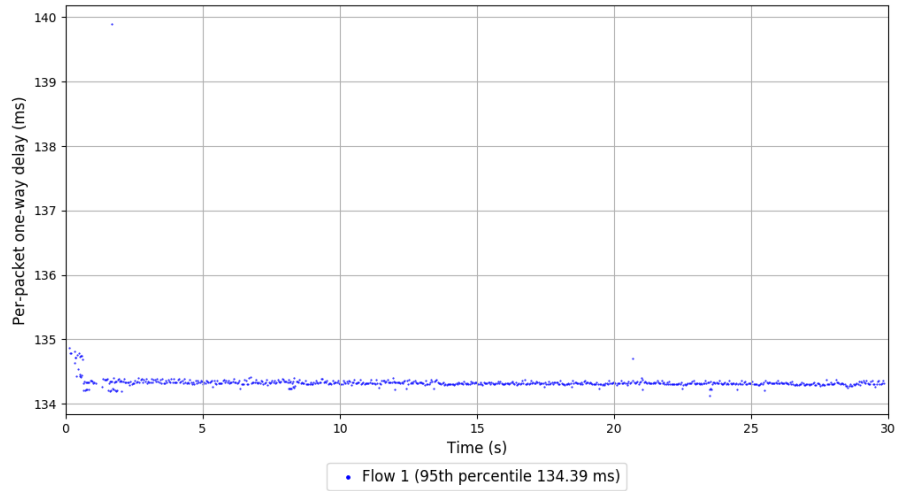
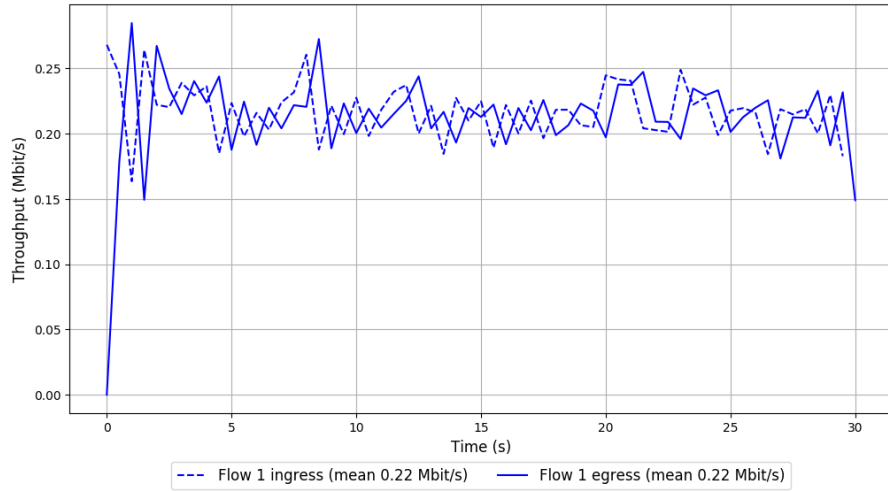


Run 5: Statistics of SCReAM

Start at: 2019-11-24 14:08:00  
End at: 2019-11-24 14:08:30  
Local clock offset: -0.452 ms  
Remote clock offset: -38.136 ms

# Below is generated by plot.py at 2019-11-24 14:46:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 134.386 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 134.386 ms  
Loss rate: 0.64%

### Run 5: Report of SCReAM — Data Link



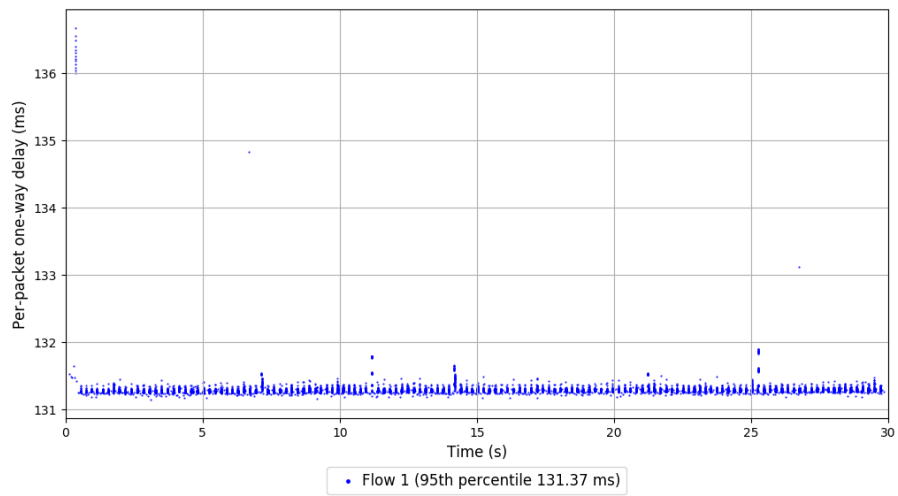
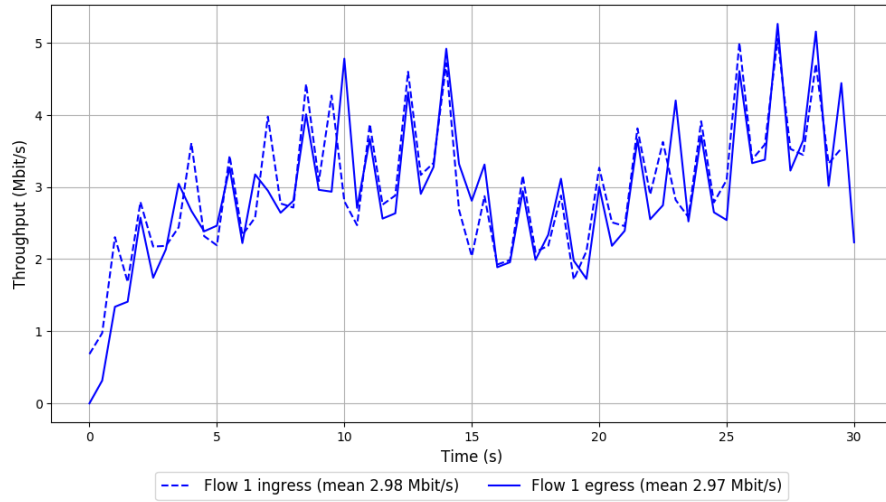


Run 1: Statistics of Sprout

Start at: 2019-11-24 11:51:16  
End at: 2019-11-24 11:51:46  
Local clock offset: -3.912 ms  
Remote clock offset: -40.255 ms

# Below is generated by plot.py at 2019-11-24 14:46:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.97 Mbit/s  
95th percentile per-packet one-way delay: 131.367 ms  
Loss rate: 1.05%  
-- Flow 1:  
Average throughput: 2.97 Mbit/s  
95th percentile per-packet one-way delay: 131.367 ms  
Loss rate: 1.05%

### Run 1: Report of Sprout — Data Link

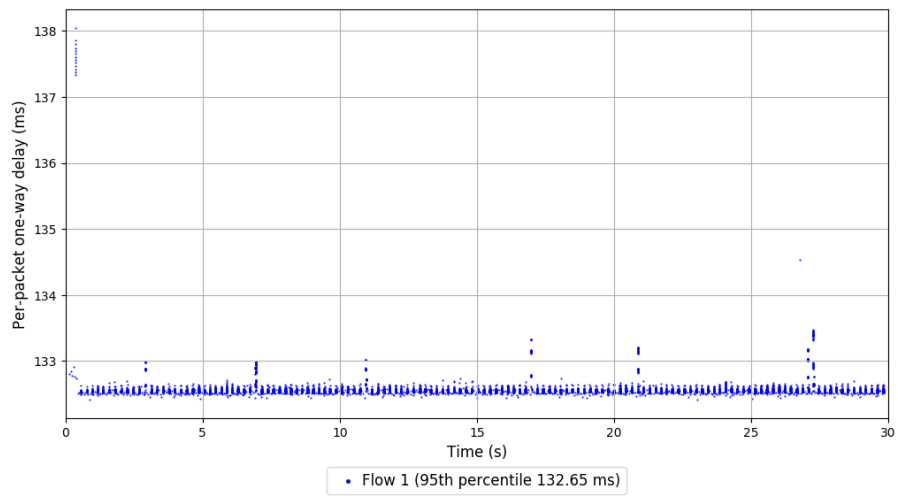
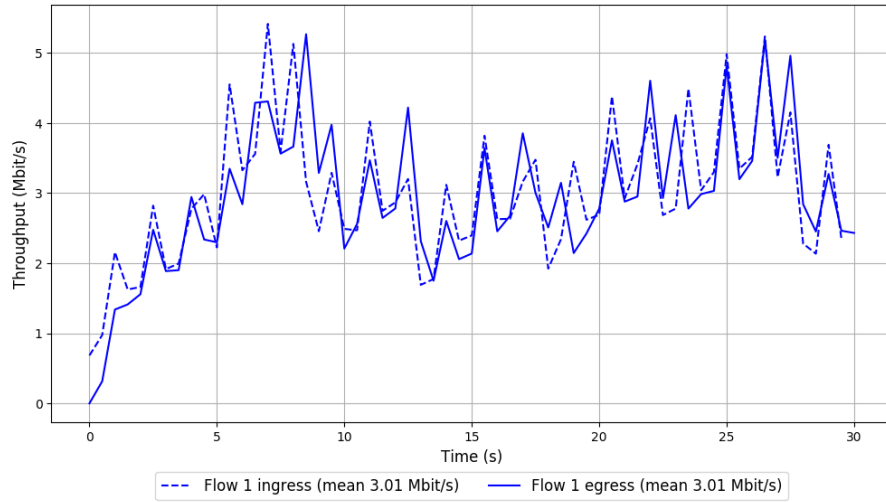


Run 2: Statistics of Sprout

Start at: 2019-11-24 12:22:15  
End at: 2019-11-24 12:22:46  
Local clock offset: -3.96 ms  
Remote clock offset: -40.777 ms

# Below is generated by plot.py at 2019-11-24 14:46:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 3.01 Mbit/s  
95th percentile per-packet one-way delay: 132.648 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 3.01 Mbit/s  
95th percentile per-packet one-way delay: 132.648 ms  
Loss rate: 0.64%

Run 2: Report of Sprout — Data Link

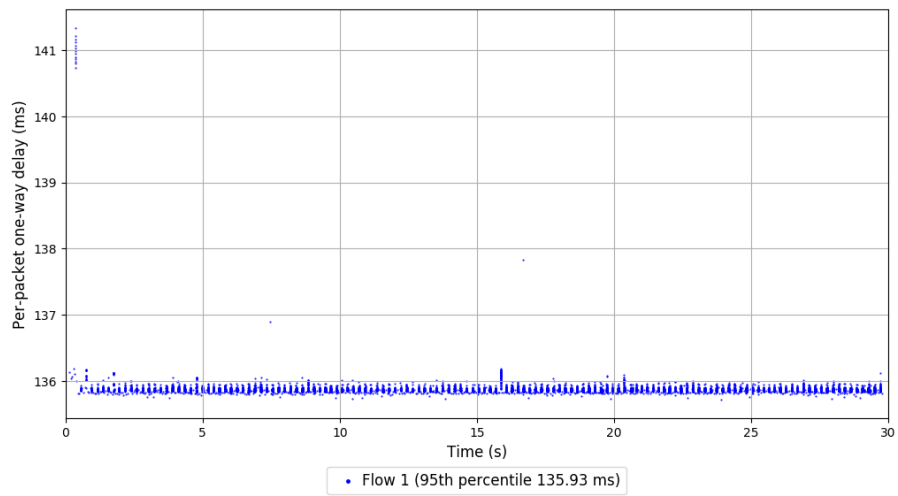
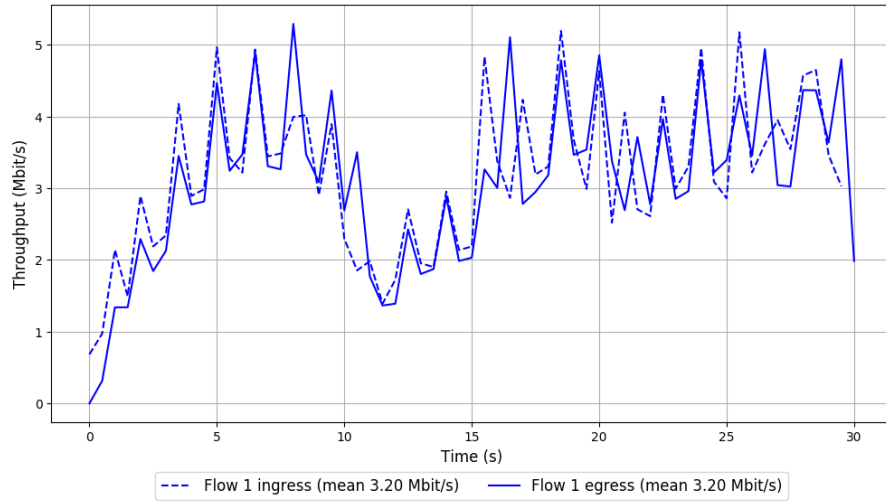


Run 3: Statistics of Sprout

Start at: 2019-11-24 12:53:13  
End at: 2019-11-24 12:53:43  
Local clock offset: -1.308 ms  
Remote clock offset: -40.533 ms

# Below is generated by plot.py at 2019-11-24 14:46:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 3.20 Mbit/s  
95th percentile per-packet one-way delay: 135.934 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 3.20 Mbit/s  
95th percentile per-packet one-way delay: 135.934 ms  
Loss rate: 0.84%

### Run 3: Report of Sprout — Data Link

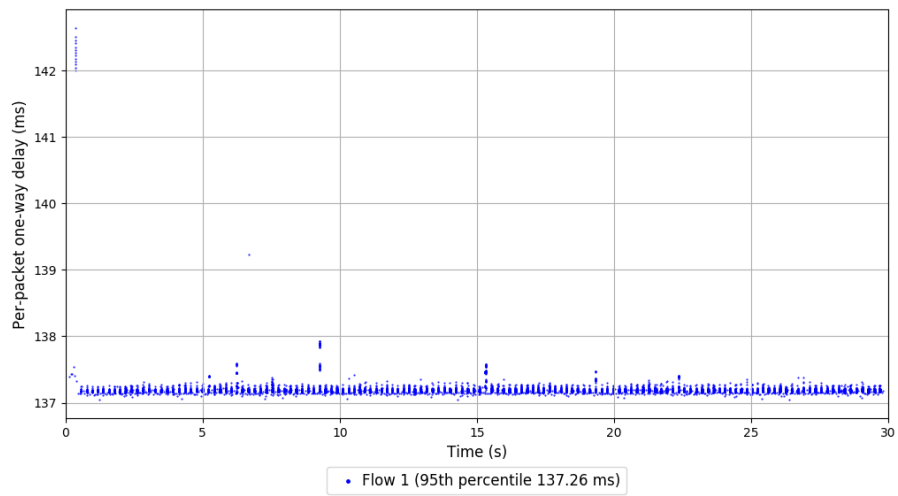
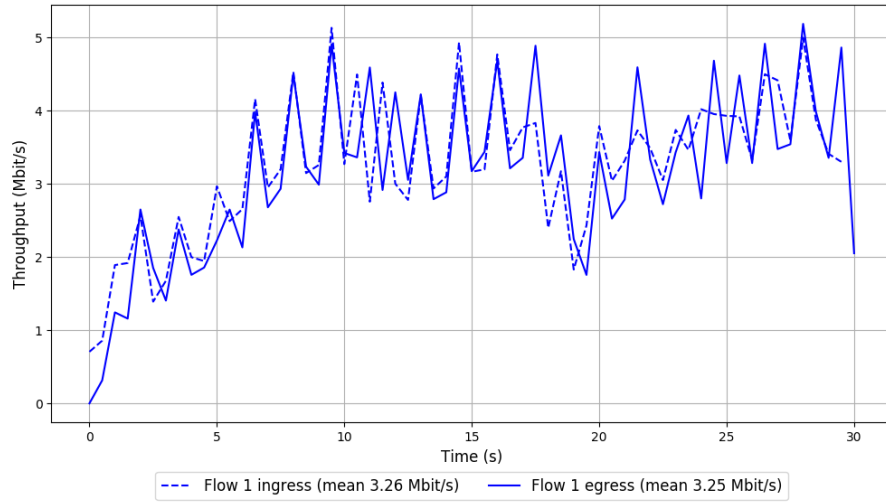


Run 4: Statistics of Sprout

Start at: 2019-11-24 13:24:24  
End at: 2019-11-24 13:24:54  
Local clock offset: -1.928 ms  
Remote clock offset: -42.266 ms

# Below is generated by plot.py at 2019-11-24 14:46:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 3.25 Mbit/s  
95th percentile per-packet one-way delay: 137.258 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 3.25 Mbit/s  
95th percentile per-packet one-way delay: 137.258 ms  
Loss rate: 0.84%

### Run 4: Report of Sprout — Data Link



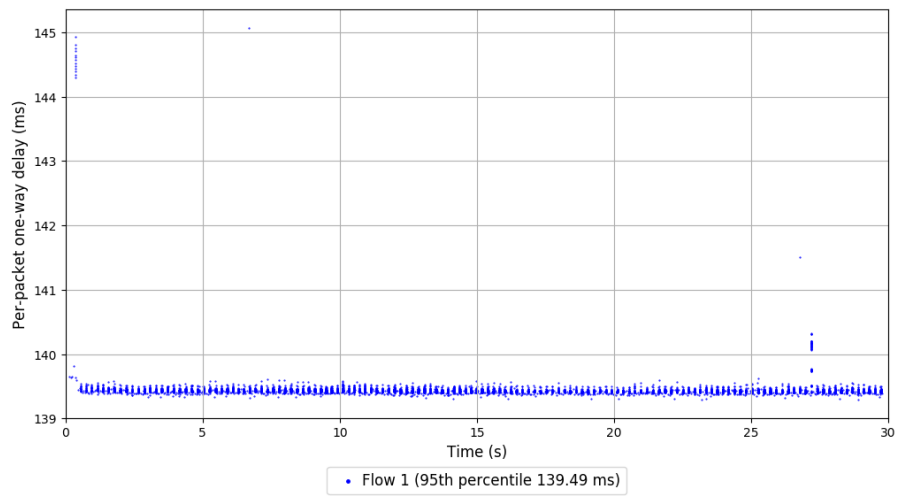
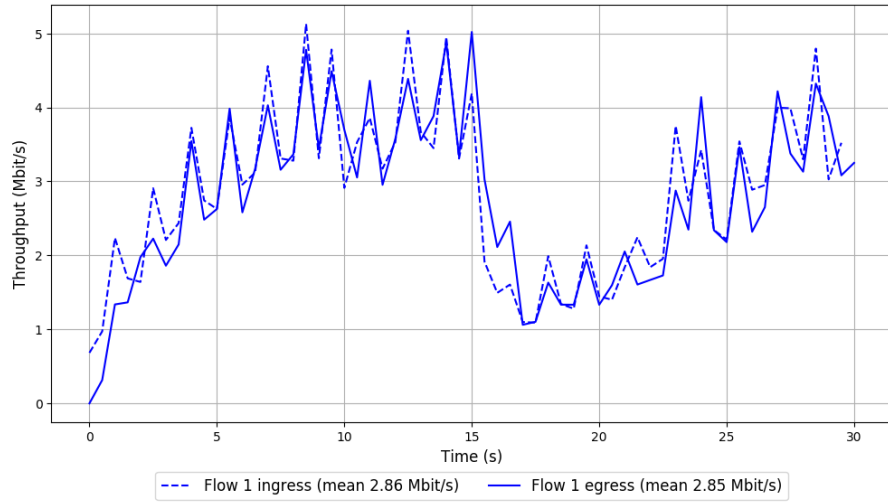


Run 5: Statistics of Sprout

Start at: 2019-11-24 13:55:24  
End at: 2019-11-24 13:55:54  
Local clock offset: 0.15 ms  
Remote clock offset: -42.317 ms

```
# Below is generated by plot.py at 2019-11-24 14:46:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.85 Mbit/s
95th percentile per-packet one-way delay: 139.492 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 2.85 Mbit/s
95th percentile per-packet one-way delay: 139.492 ms
Loss rate: 1.04%
```

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

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

End at: 2019-11-24 11:45:14

Local clock offset: -3.389 ms

Remote clock offset: -44.35 ms

# Below is generated by plot.py at 2019-11-24 14:48:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 149.04 Mbit/s

95th percentile per-packet one-way delay: 137.789 ms

Loss rate: 0.71%

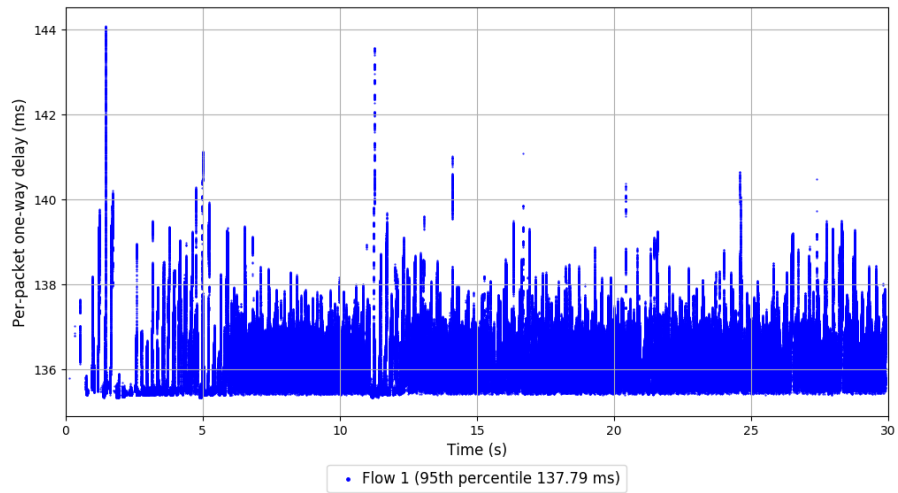
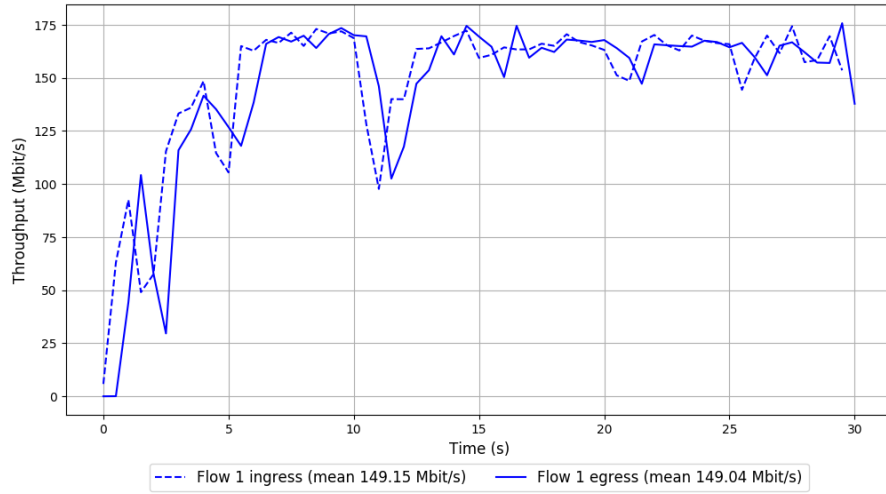
-- Flow 1:

Average throughput: 149.04 Mbit/s

95th percentile per-packet one-way delay: 137.789 ms

Loss rate: 0.71%

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

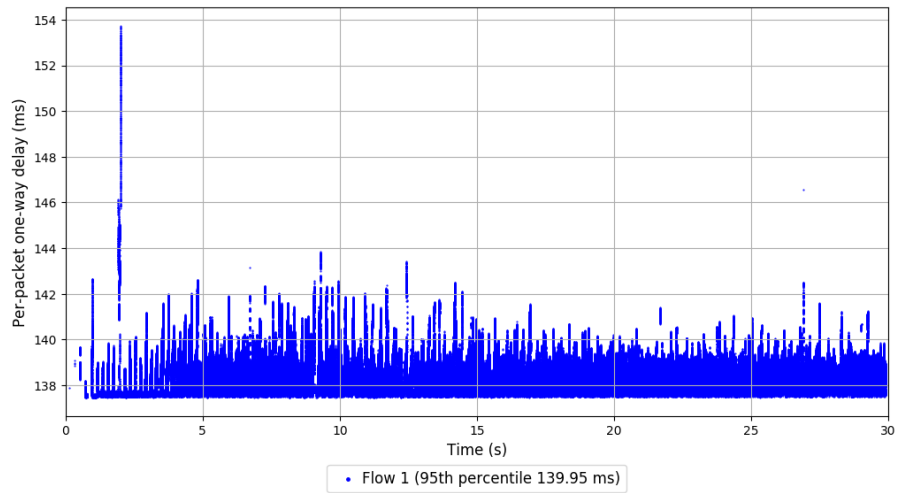
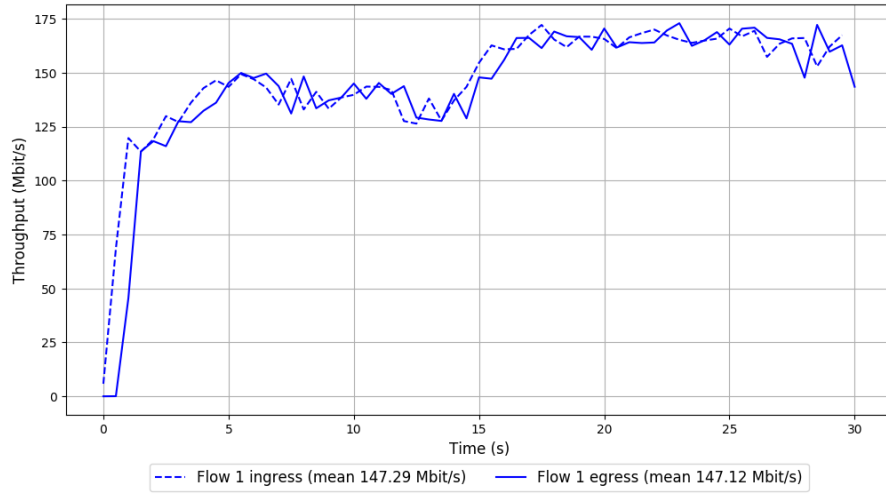


Run 2: Statistics of TaoVA-100x

Start at: 2019-11-24 12:15:48  
End at: 2019-11-24 12:16:18  
Local clock offset: -0.376 ms  
Remote clock offset: -42.278 ms

# Below is generated by plot.py at 2019-11-24 14:48:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 147.12 Mbit/s  
95th percentile per-packet one-way delay: 139.952 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 147.12 Mbit/s  
95th percentile per-packet one-way delay: 139.952 ms  
Loss rate: 0.76%

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

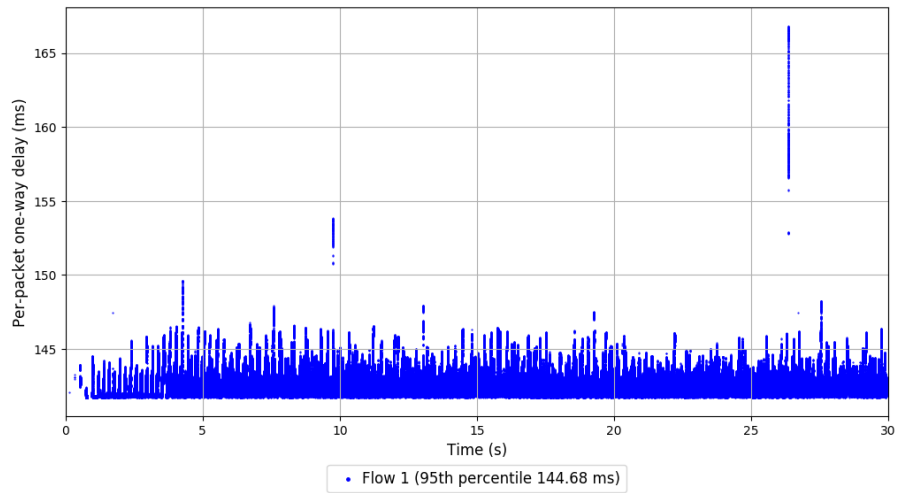
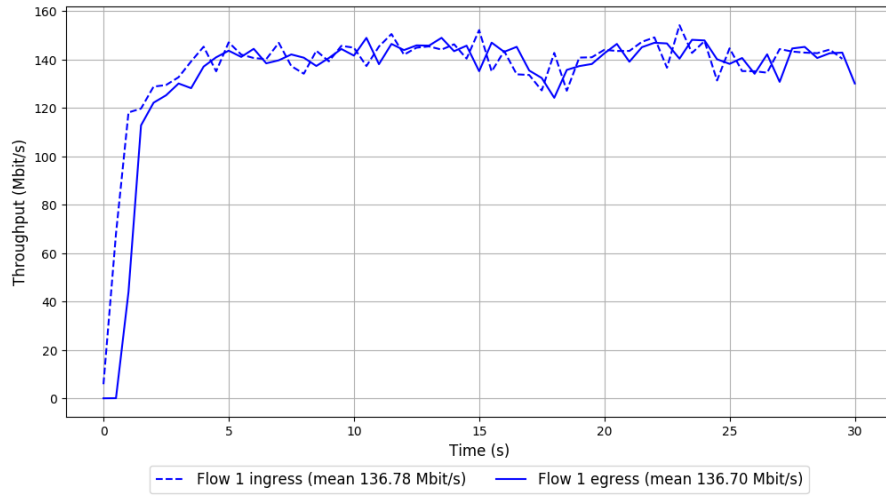


Run 3: Statistics of TaoVA-100x

Start at: 2019-11-24 12:46:46  
End at: 2019-11-24 12:47:16  
Local clock offset: 0.037 ms  
Remote clock offset: -45.398 ms

# Below is generated by plot.py at 2019-11-24 14:48:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 136.70 Mbit/s  
95th percentile per-packet one-way delay: 144.677 ms  
Loss rate: 0.66%  
-- Flow 1:  
Average throughput: 136.70 Mbit/s  
95th percentile per-packet one-way delay: 144.677 ms  
Loss rate: 0.66%

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



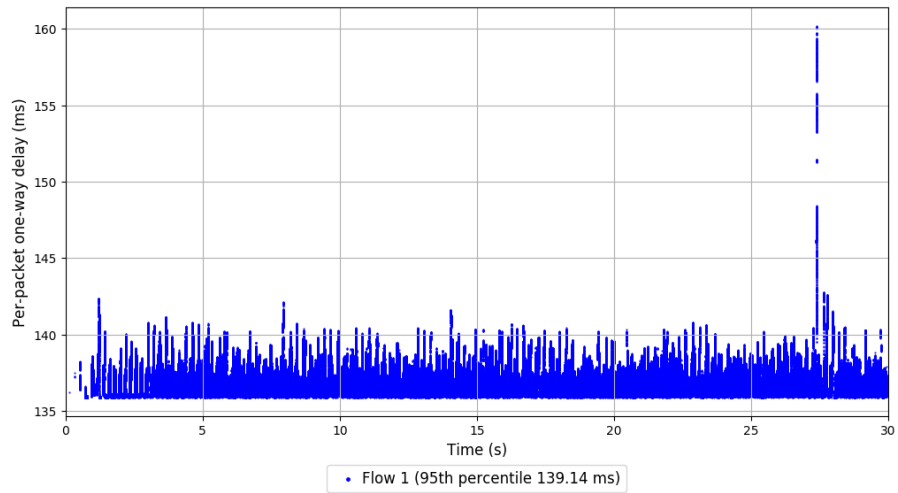
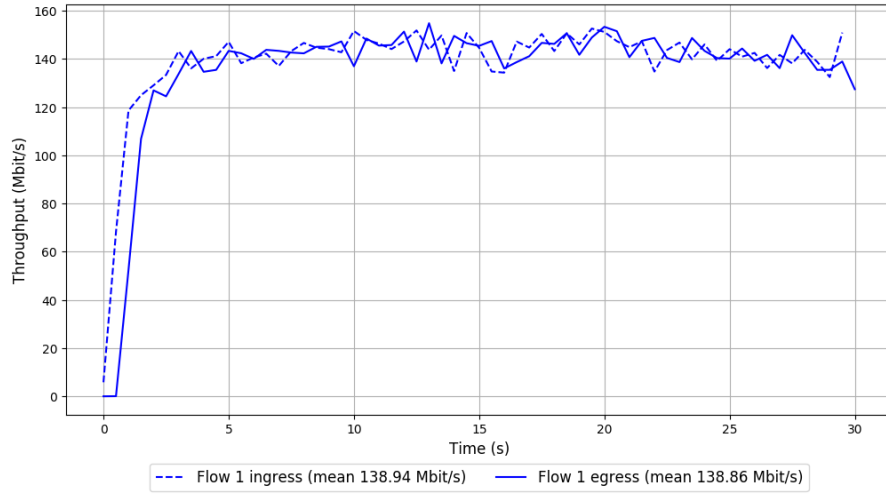


Run 4: Statistics of TaoVA-100x

Start at: 2019-11-24 13:17:57  
End at: 2019-11-24 13:18:27  
Local clock offset: -0.53 ms  
Remote clock offset: -39.852 ms

# Below is generated by plot.py at 2019-11-24 14:48:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 138.86 Mbit/s  
95th percentile per-packet one-way delay: 139.144 ms  
Loss rate: 0.69%  
-- Flow 1:  
Average throughput: 138.86 Mbit/s  
95th percentile per-packet one-way delay: 139.144 ms  
Loss rate: 0.69%

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

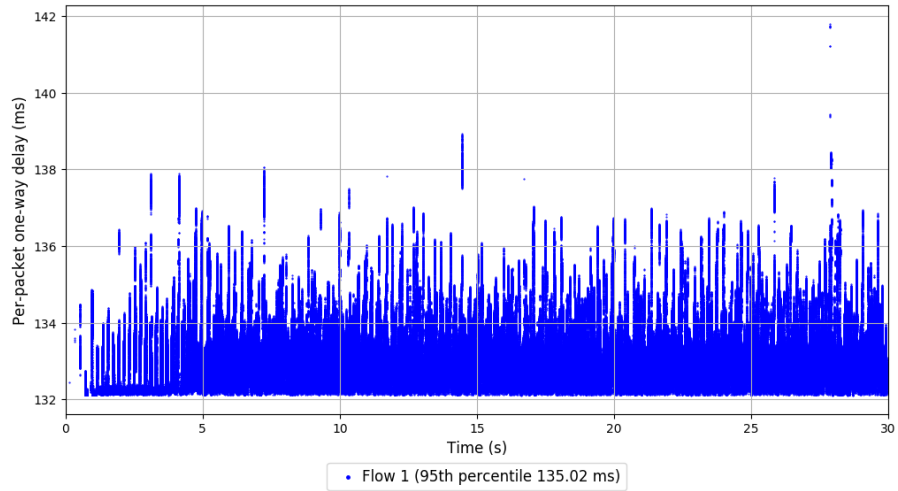
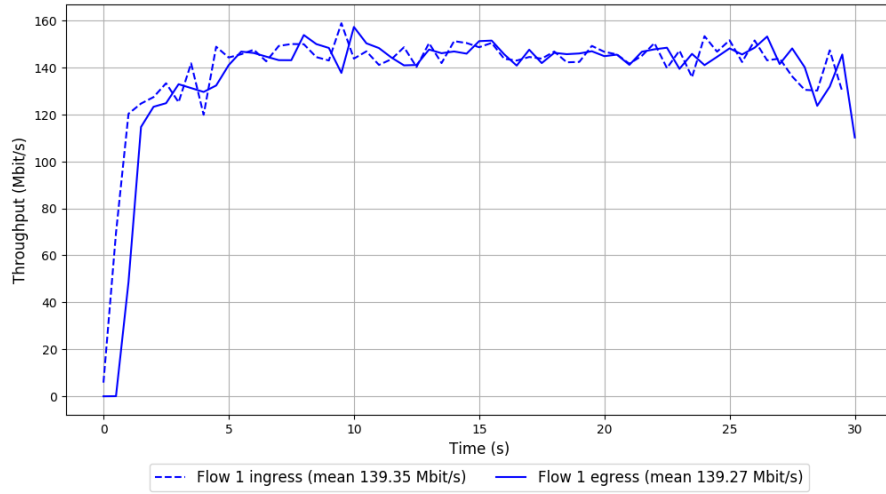


Run 5: Statistics of TaoVA-100x

Start at: 2019-11-24 13:48:57  
End at: 2019-11-24 13:49:27  
Local clock offset: -2.648 ms  
Remote clock offset: -37.772 ms

# Below is generated by plot.py at 2019-11-24 14:48:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 139.27 Mbit/s  
95th percentile per-packet one-way delay: 135.019 ms  
Loss rate: 0.69%  
-- Flow 1:  
Average throughput: 139.27 Mbit/s  
95th percentile per-packet one-way delay: 135.019 ms  
Loss rate: 0.69%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-11-24 11:54:57

End at: 2019-11-24 11:55:27

Local clock offset: -3.948 ms

Remote clock offset: -44.19 ms

Run 1: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of TCP Vegas

Start at: 2019-11-24 12:25:50

End at: 2019-11-24 12:26:20

Local clock offset: -0.999 ms

Remote clock offset: -38.51 ms

Run 2: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing



Run 3: Statistics of TCP Vegas

Start at: 2019-11-24 12:56:55

End at: 2019-11-24 12:57:25

Local clock offset: -0.429 ms

Remote clock offset: -39.193 ms

Run 3: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of TCP Vegas

Start at: 2019-11-24 13:27:58

End at: 2019-11-24 13:28:28

Local clock offset: -0.763 ms

Remote clock offset: -39.636 ms

Run 4: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of TCP Vegas

Start at: 2019-11-24 13:58:59

End at: 2019-11-24 13:59:29

Local clock offset: -2.689 ms

Remote clock offset: -39.275 ms

Run 5: Report of TCP Vegas — Data Link

Figure is missing

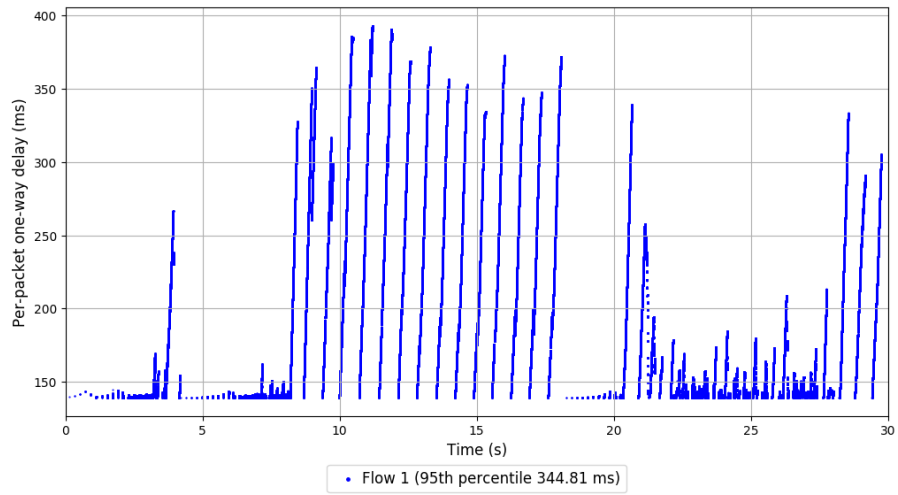
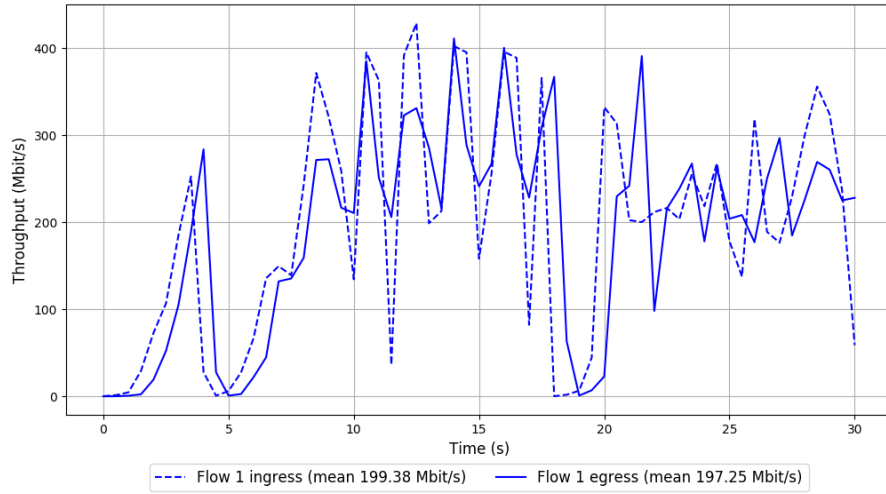
Figure is missing

Run 1: Statistics of Verus

Start at: 2019-11-24 11:40:27  
End at: 2019-11-24 11:40:57  
Local clock offset: -0.268 ms  
Remote clock offset: -44.977 ms

# Below is generated by plot.py at 2019-11-24 14:48:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 197.25 Mbit/s  
95th percentile per-packet one-way delay: 344.810 ms  
Loss rate: 2.51%  
-- Flow 1:  
Average throughput: 197.25 Mbit/s  
95th percentile per-packet one-way delay: 344.810 ms  
Loss rate: 2.51%

Run 1: Report of Verus — Data Link



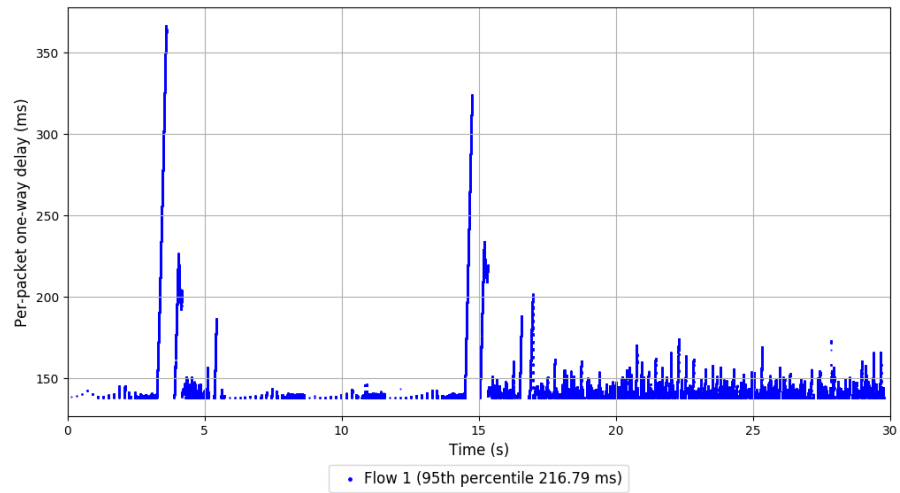
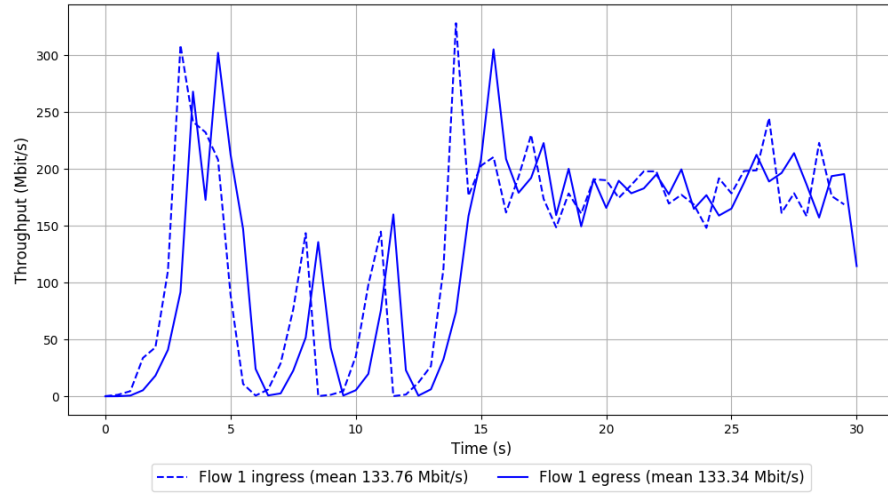


Run 2: Statistics of Verus

Start at: 2019-11-24 12:11:39  
End at: 2019-11-24 12:12:09  
Local clock offset: -0.712 ms  
Remote clock offset: -43.27 ms

# Below is generated by plot.py at 2019-11-24 14:48:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 133.34 Mbit/s  
95th percentile per-packet one-way delay: 216.793 ms  
Loss rate: 1.32%  
-- Flow 1:  
Average throughput: 133.34 Mbit/s  
95th percentile per-packet one-way delay: 216.793 ms  
Loss rate: 1.32%

## Run 2: Report of Verus — Data Link

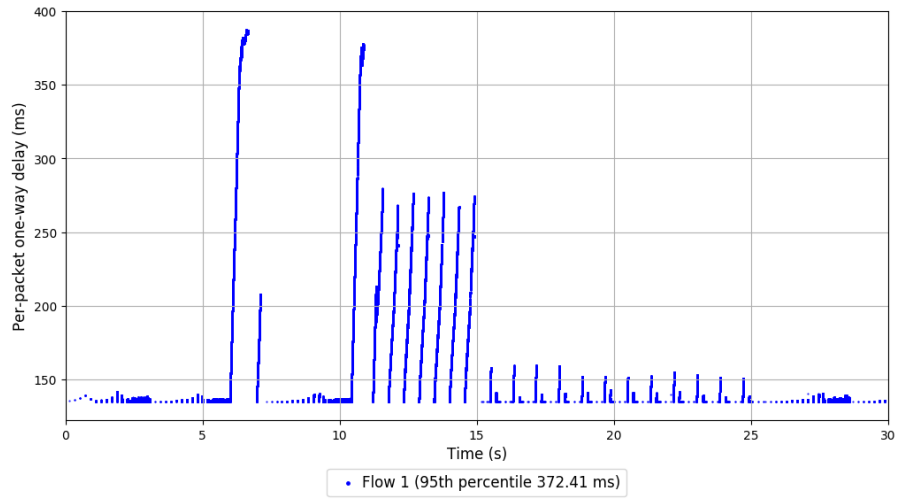
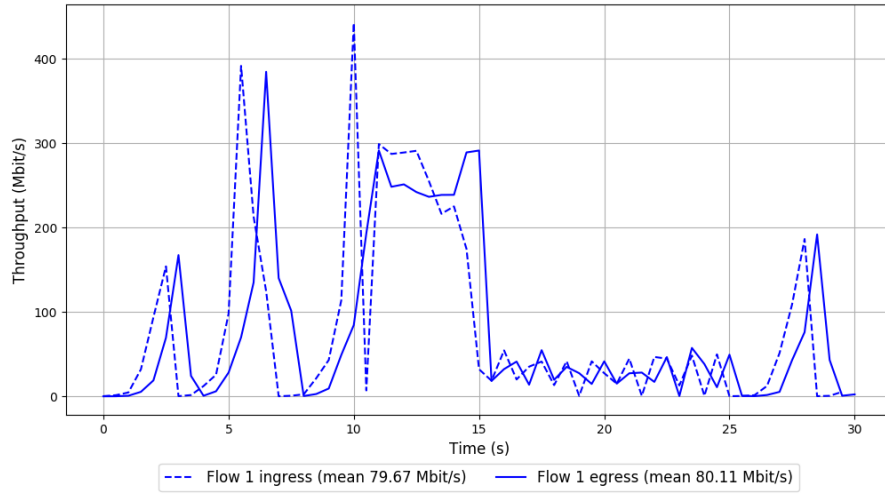


Run 3: Statistics of Verus

Start at: 2019-11-24 12:42:41  
End at: 2019-11-24 12:43:11  
Local clock offset: -2.309 ms  
Remote clock offset: -41.134 ms

# Below is generated by plot.py at 2019-11-24 14:48:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 80.11 Mbit/s  
95th percentile per-packet one-way delay: 372.409 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 80.11 Mbit/s  
95th percentile per-packet one-way delay: 372.409 ms  
Loss rate: 0.10%

### Run 3: Report of Verus — Data Link

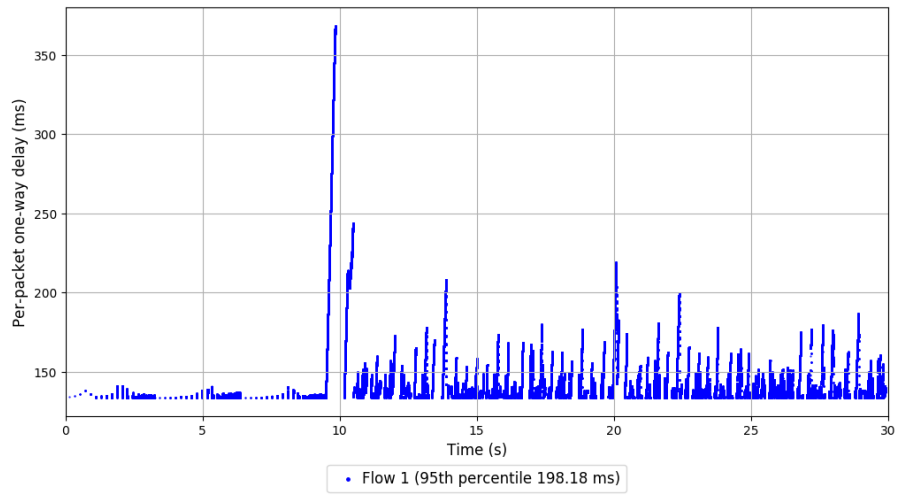
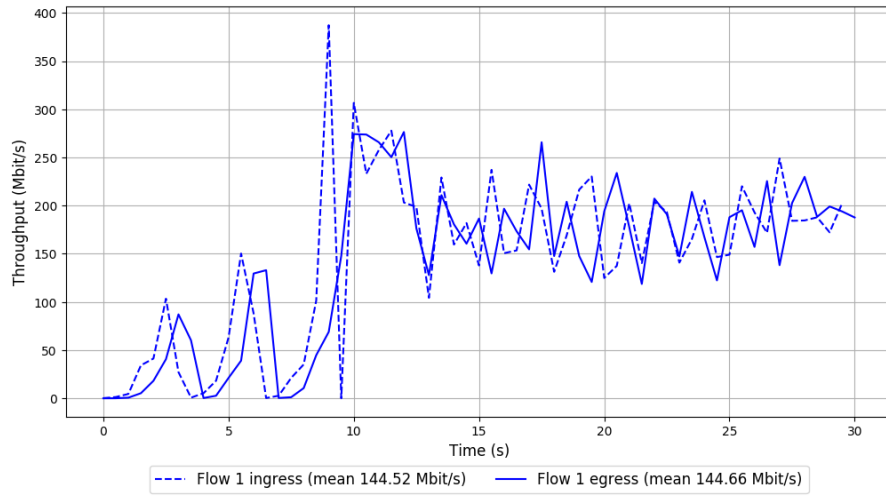


Run 4: Statistics of Verus

Start at: 2019-11-24 13:13:50  
End at: 2019-11-24 13:14:20  
Local clock offset: -3.135 ms  
Remote clock offset: -40.036 ms

# Below is generated by plot.py at 2019-11-24 14:49:09  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 144.66 Mbit/s  
95th percentile per-packet one-way delay: 198.180 ms  
Loss rate: 0.50%  
-- Flow 1:  
Average throughput: 144.66 Mbit/s  
95th percentile per-packet one-way delay: 198.180 ms  
Loss rate: 0.50%

### Run 4: Report of Verus — Data Link

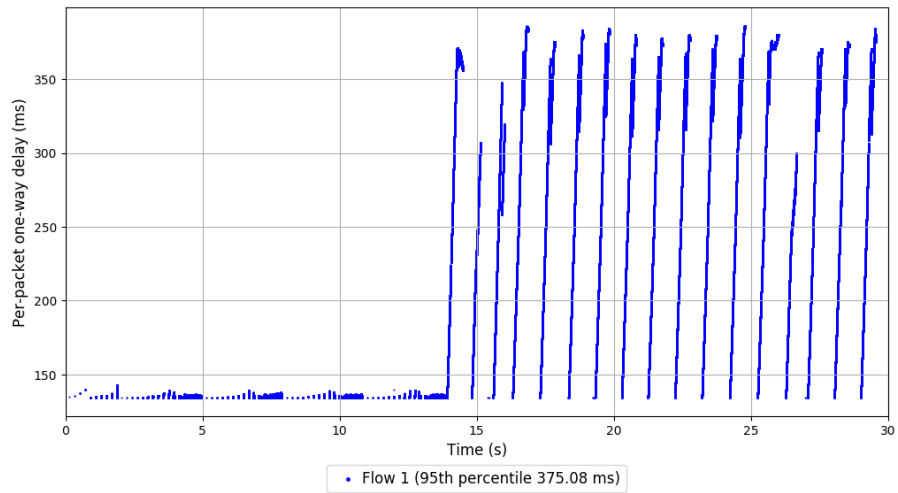
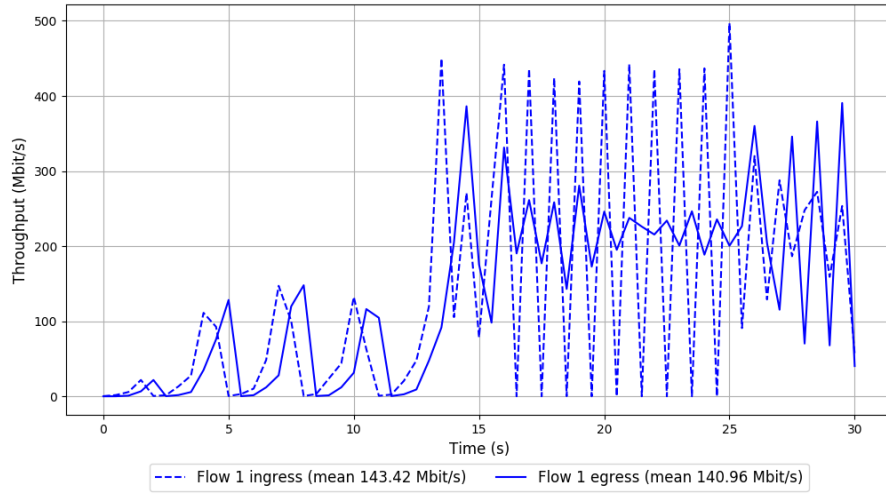


Run 5: Statistics of Verus

Start at: 2019-11-24 13:44:51  
End at: 2019-11-24 13:45:21  
Local clock offset: -3.031 ms  
Remote clock offset: -40.299 ms

# Below is generated by plot.py at 2019-11-24 14:49:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 140.96 Mbit/s  
95th percentile per-packet one-way delay: 375.080 ms  
Loss rate: 3.70%  
-- Flow 1:  
Average throughput: 140.96 Mbit/s  
95th percentile per-packet one-way delay: 375.080 ms  
Loss rate: 3.70%

### Run 5: Report of Verus — Data Link



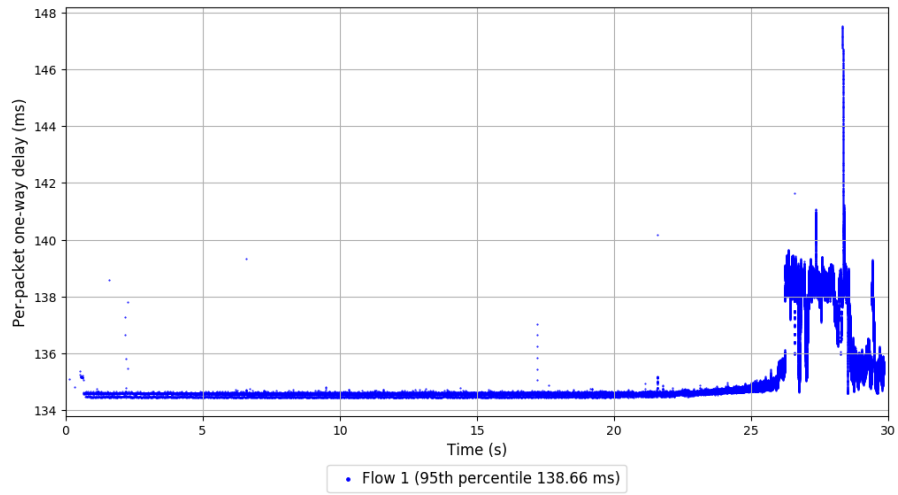
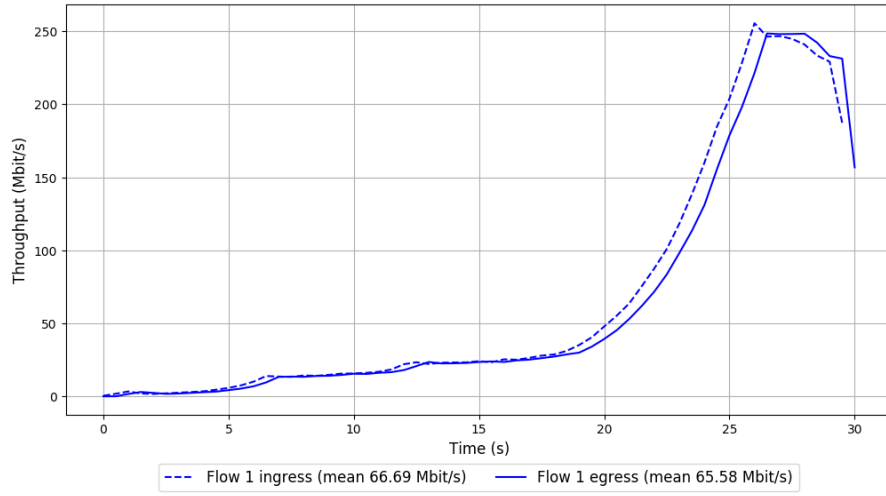


Run 1: Statistics of PCC-Vivace

Start at: 2019-11-24 12:07:48  
End at: 2019-11-24 12:08:18  
Local clock offset: -1.635 ms  
Remote clock offset: -41.025 ms

# Below is generated by plot.py at 2019-11-24 14:49:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 65.58 Mbit/s  
95th percentile per-packet one-way delay: 138.665 ms  
Loss rate: 2.29%  
-- Flow 1:  
Average throughput: 65.58 Mbit/s  
95th percentile per-packet one-way delay: 138.665 ms  
Loss rate: 2.29%

Run 1: Report of PCC-Vivace — Data Link

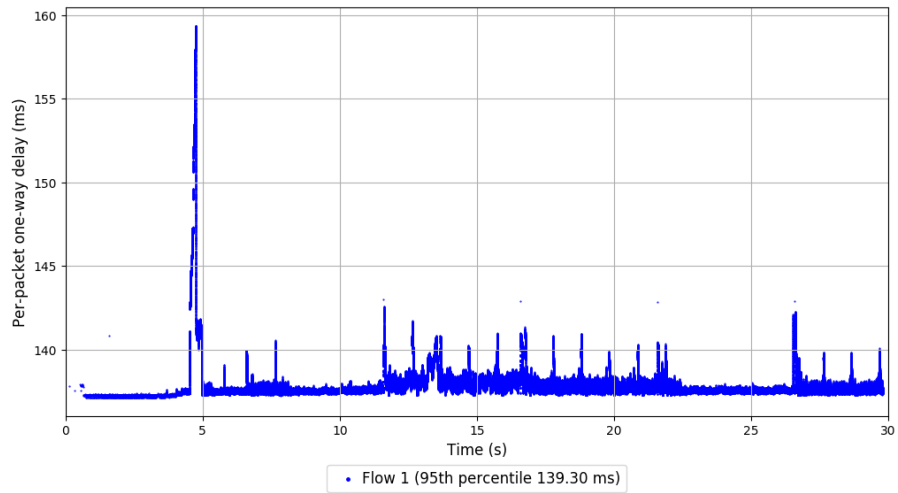
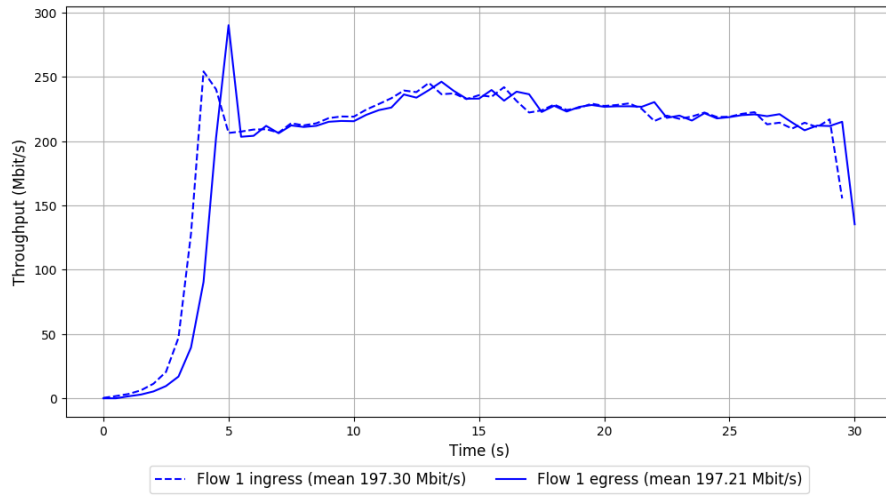


Run 2: Statistics of PCC-Vivace

Start at: 2019-11-24 12:38:43  
End at: 2019-11-24 12:39:13  
Local clock offset: -0.153 ms  
Remote clock offset: -41.225 ms

# Below is generated by plot.py at 2019-11-24 14:50:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 197.21 Mbit/s  
95th percentile per-packet one-way delay: 139.304 ms  
Loss rate: 0.69%  
-- Flow 1:  
Average throughput: 197.21 Mbit/s  
95th percentile per-packet one-way delay: 139.304 ms  
Loss rate: 0.69%

Run 2: Report of PCC-Vivace — Data Link

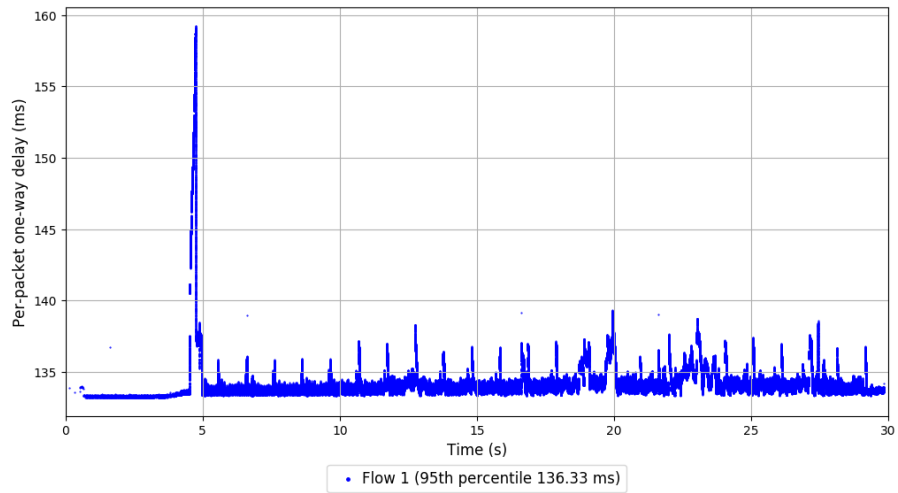
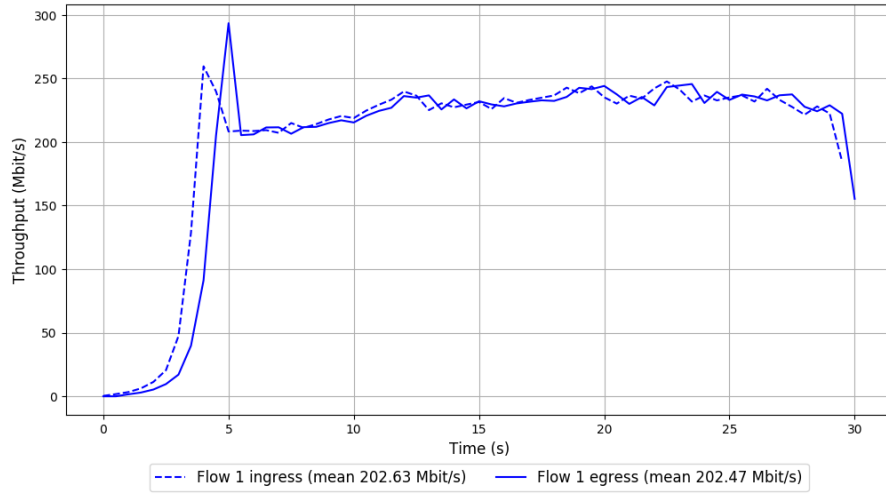


Run 3: Statistics of PCC-Vivace

Start at: 2019-11-24 13:09:49  
End at: 2019-11-24 13:10:19  
Local clock offset: -1.736 ms  
Remote clock offset: -38.457 ms

# Below is generated by plot.py at 2019-11-24 14:50:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 202.47 Mbit/s  
95th percentile per-packet one-way delay: 136.329 ms  
Loss rate: 0.72%  
-- Flow 1:  
Average throughput: 202.47 Mbit/s  
95th percentile per-packet one-way delay: 136.329 ms  
Loss rate: 0.72%

### Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-11-24 13:40:53

End at: 2019-11-24 13:41:23

Local clock offset: -0.408 ms

Remote clock offset: -37.21 ms

# Below is generated by plot.py at 2019-11-24 14:50:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 204.47 Mbit/s

95th percentile per-packet one-way delay: 137.721 ms

Loss rate: 0.77%

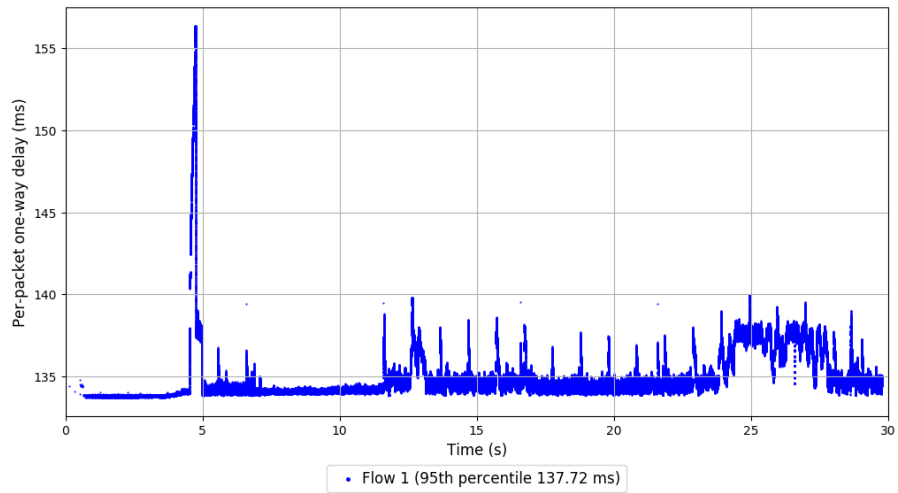
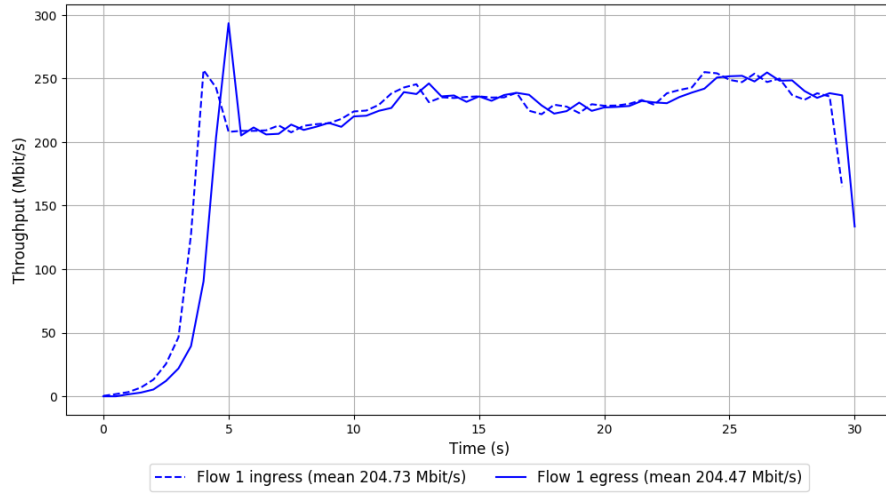
-- Flow 1:

Average throughput: 204.47 Mbit/s

95th percentile per-packet one-way delay: 137.721 ms

Loss rate: 0.77%

Run 4: Report of PCC-Vivace — Data Link



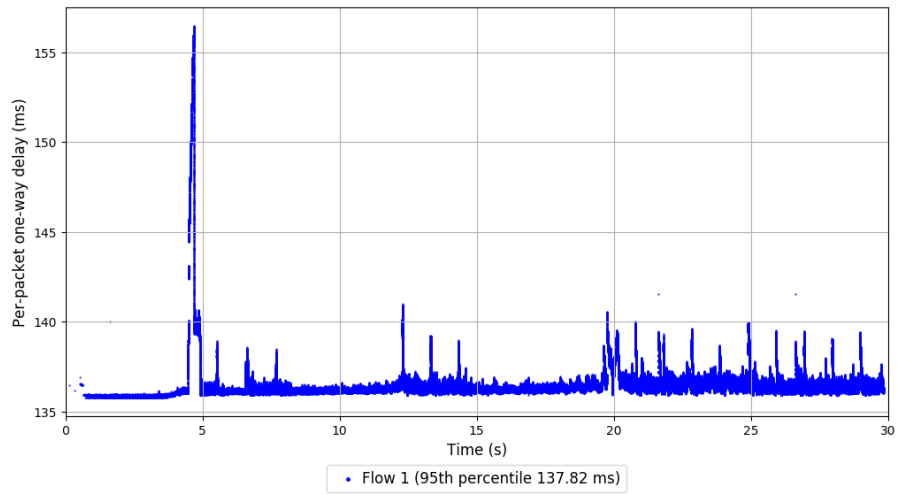
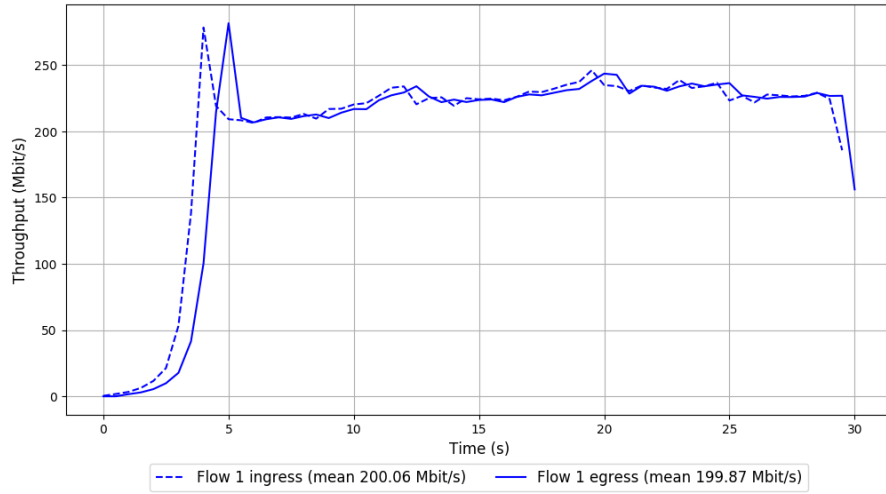


Run 5: Statistics of PCC-Vivace

Start at: 2019-11-24 14:11:53  
End at: 2019-11-24 14:12:23  
Local clock offset: -2.862 ms  
Remote clock offset: -42.337 ms

```
# Below is generated by plot.py at 2019-11-24 14:50:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 199.87 Mbit/s
95th percentile per-packet one-way delay: 137.816 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 199.87 Mbit/s
95th percentile per-packet one-way delay: 137.816 ms
Loss rate: 0.75%
```

Run 5: Report of PCC-Vivace — Data Link

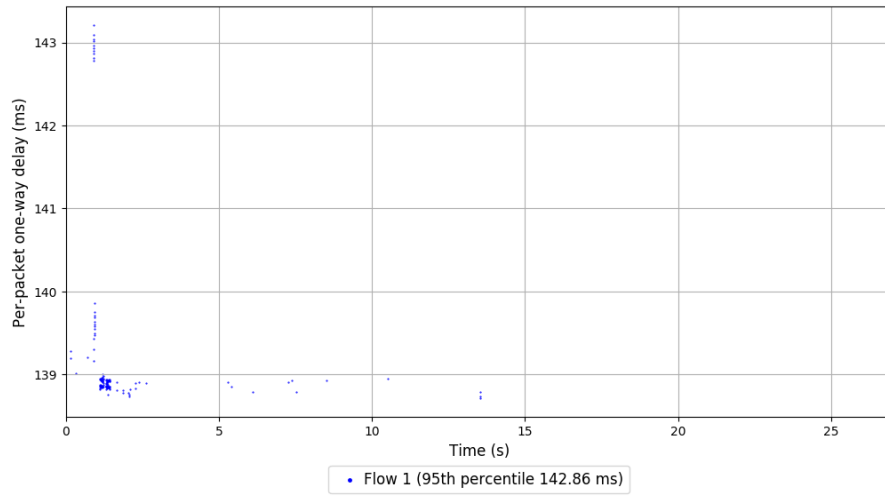
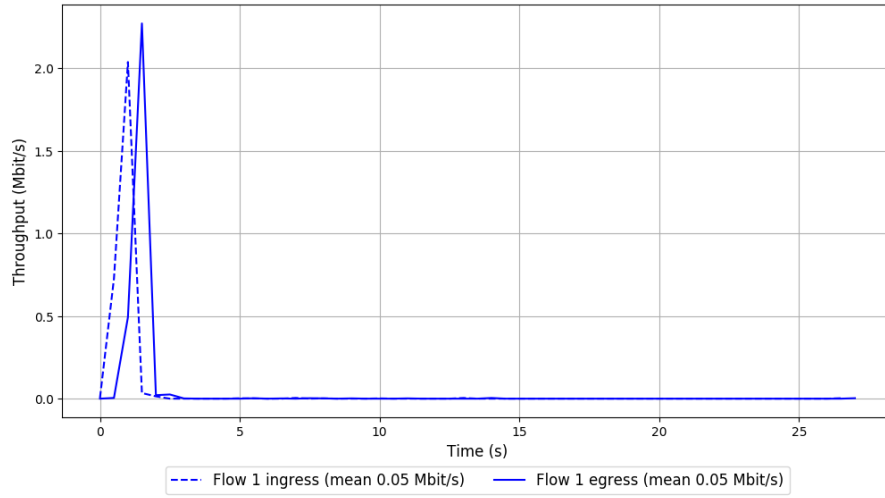


Run 1: Statistics of WebRTC media

Start at: 2019-11-24 12:02:50  
End at: 2019-11-24 12:03:20  
Local clock offset: -1.999 ms  
Remote clock offset: -45.739 ms

# Below is generated by plot.py at 2019-11-24 14:50:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 142.862 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 142.862 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

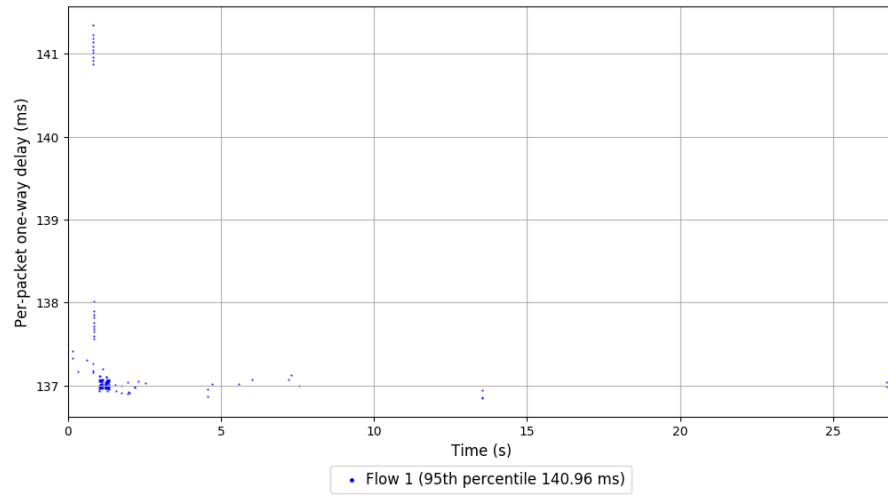
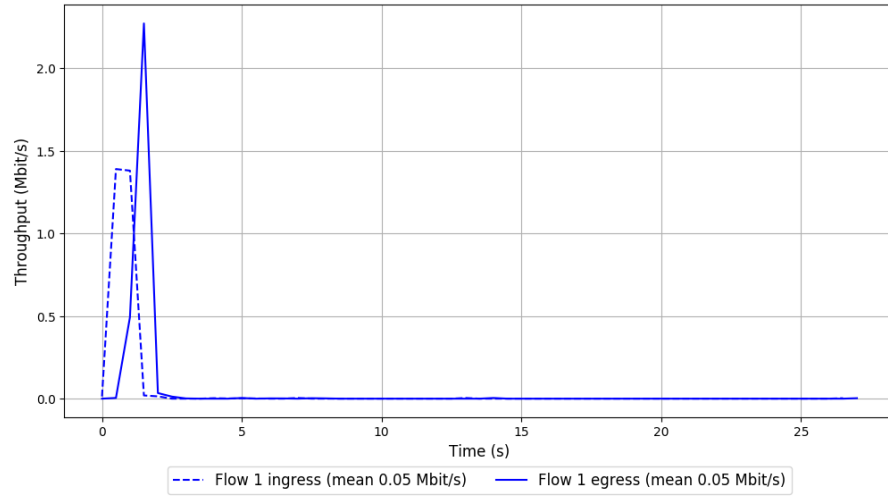


Run 2: Statistics of WebRTC media

Start at: 2019-11-24 12:33:40  
End at: 2019-11-24 12:34:10  
Local clock offset: 0.352 ms  
Remote clock offset: -40.652 ms

# Below is generated by plot.py at 2019-11-24 14:50:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 140.957 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 140.957 ms  
Loss rate: 0.00%

## Run 2: Report of WebRTC media — Data Link

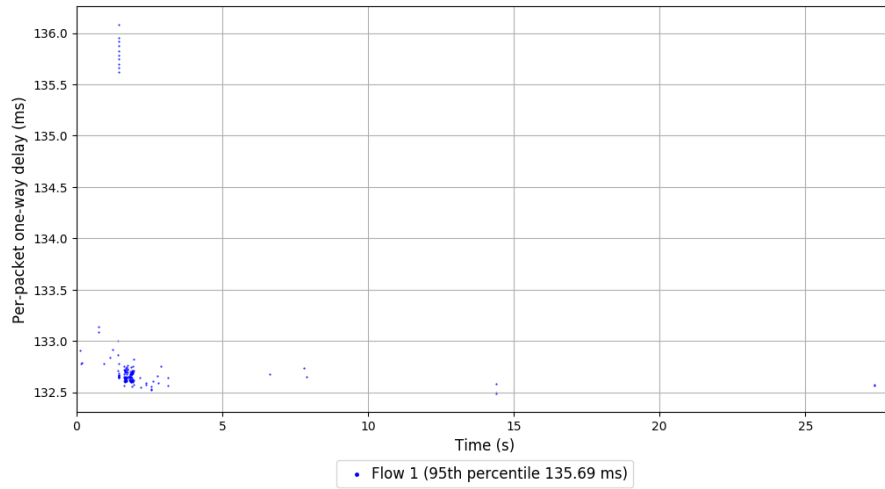
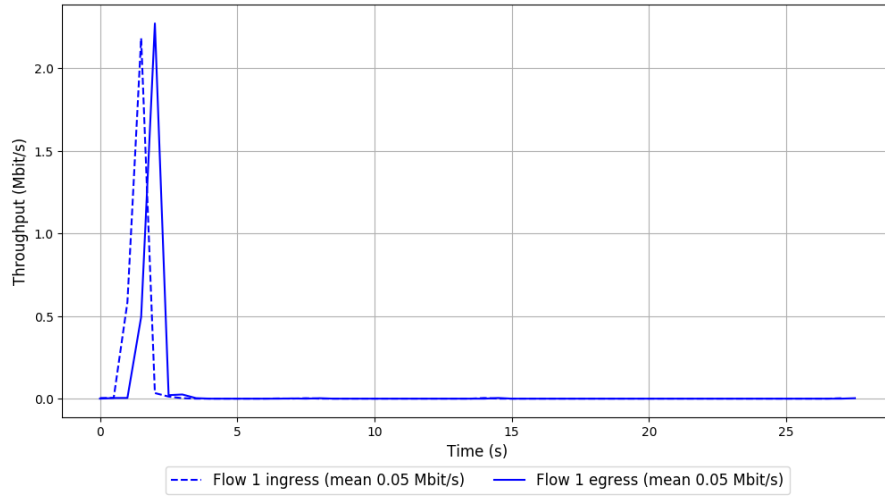


Run 3: Statistics of WebRTC media

Start at: 2019-11-24 13:04:45  
End at: 2019-11-24 13:05:15  
Local clock offset: -2.092 ms  
Remote clock offset: -38.183 ms

# Below is generated by plot.py at 2019-11-24 14:50:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 135.694 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 135.694 ms  
Loss rate: 0.00%

### Run 3: Report of WebRTC media — Data Link



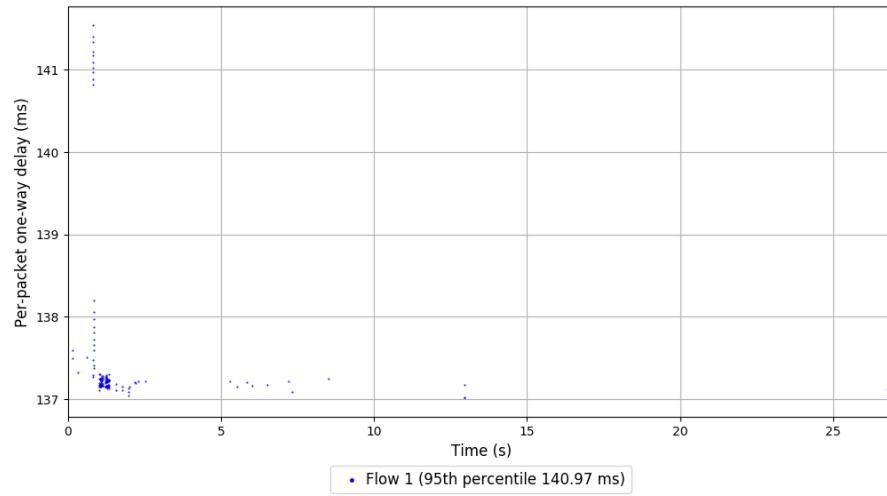
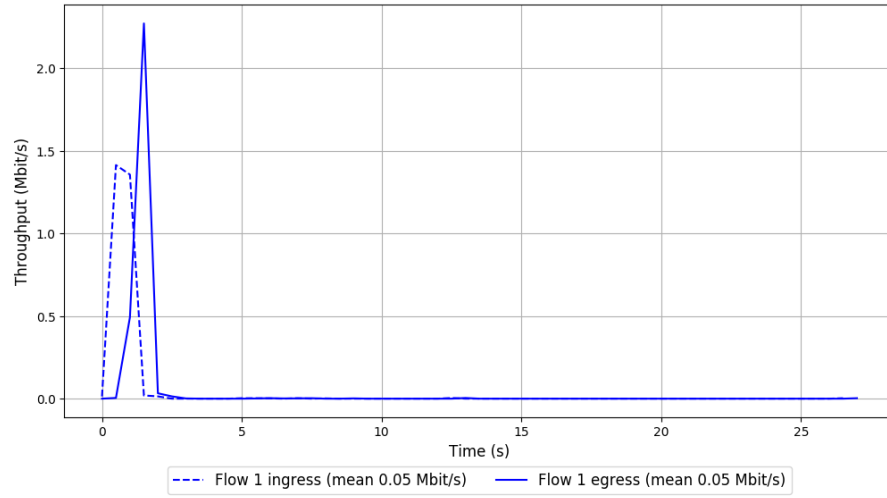


Run 4: Statistics of WebRTC media

Start at: 2019-11-24 13:35:50  
End at: 2019-11-24 13:36:20  
Local clock offset: 0.477 ms  
Remote clock offset: -39.646 ms

# Below is generated by plot.py at 2019-11-24 14:50:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 140.965 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 140.965 ms  
Loss rate: 0.00%

#### Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-11-24 14:06:50  
End at: 2019-11-24 14:07:20  
Local clock offset: -2.354 ms  
Remote clock offset: -37.931 ms

```
# Below is generated by plot.py at 2019-11-24 14:50:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 135.120 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 135.120 ms
Loss rate: 0.00%
```

### Run 5: Report of WebRTC media — Data Link

