

## Pantheon Report

Generated at 2019-01-21 20:36:11 (UTC).

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

Repeated the test of 21 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

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

### System info:

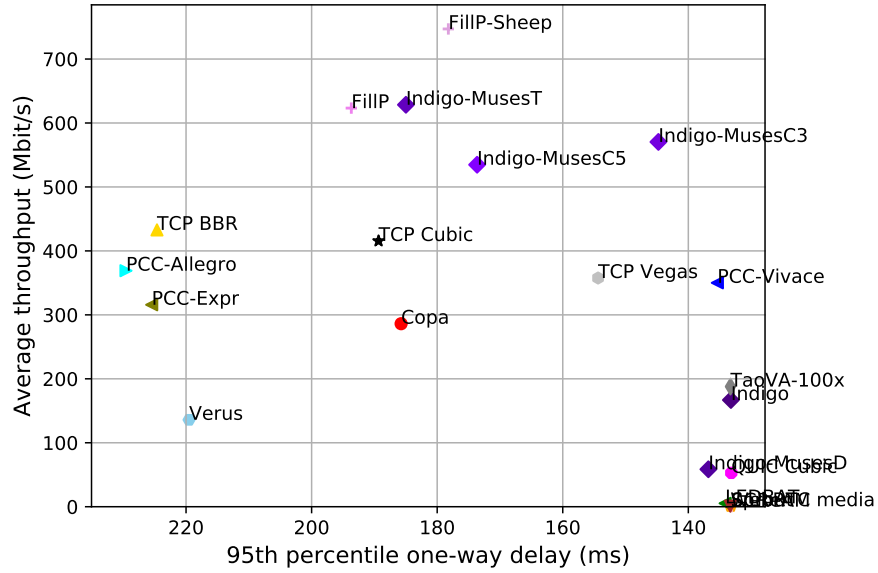
```
Linux 4.15.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

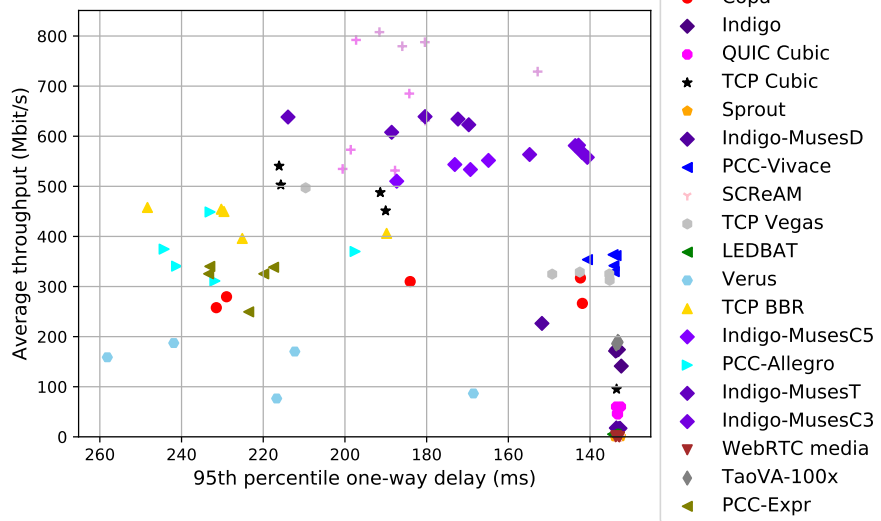
```
branch: muses @ 89d24e57783e7fbfec537a619071de937b639e38
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd9c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 1ddcff131048c6962f123bcd22b4d166a422adde
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from GCE Sydney to GCE London, 5 runs of 30s each per scheme  
(mean of all runs by scheme)



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	432.84	224.63	1.00
Copa	5	286.15	185.74	0.00
TCP Cubic	5	415.52	189.34	0.10
FillP	5	623.30	193.68	2.14
FillP-Sheep	5	747.06	178.22	0.79
Indigo	5	166.86	133.22	0.00
Indigo-MusesC3	5	570.39	144.76	0.01
Indigo-MusesC5	4	534.74	173.64	0.18
Indigo-MusesD	5	58.55	136.81	0.00
Indigo-MusesT	5	628.49	184.98	0.09
LEDBAT	5	5.28	134.14	0.00
PCC-Allegro	5	369.05	229.56	2.11
PCC-Expr	5	315.76	225.47	3.01
QUIC Cubic	4	52.91	133.16	0.00
SCReAM	5	0.15	133.14	0.00
Sprout	5	0.66	133.25	0.00
TaoVA-100x	5	187.88	133.29	0.00
TCP Vegas	5	357.60	154.37	0.01
Verus	5	135.88	219.52	0.98
PCC-Vivace	5	350.07	135.38	0.07
WebRTC media	5	0.84	133.31	0.00



Run 1: Statistics of TCP BBR

Start at: 2019-01-21 15:39:05

End at: 2019-01-21 15:39:35

Local clock offset: -0.095 ms

Remote clock offset: 0.271 ms

# Below is generated by plot.py at 2019-01-21 18:44:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 449.81 Mbit/s

95th percentile per-packet one-way delay: 229.612 ms

Loss rate: 0.84%

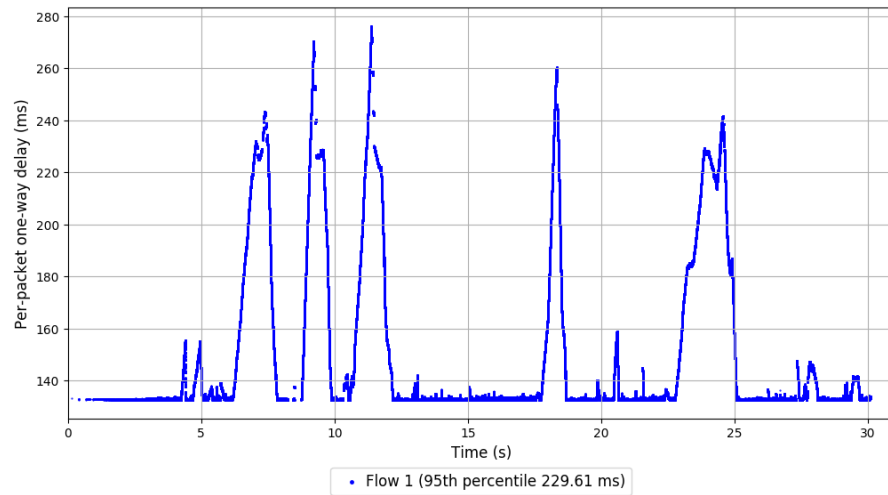
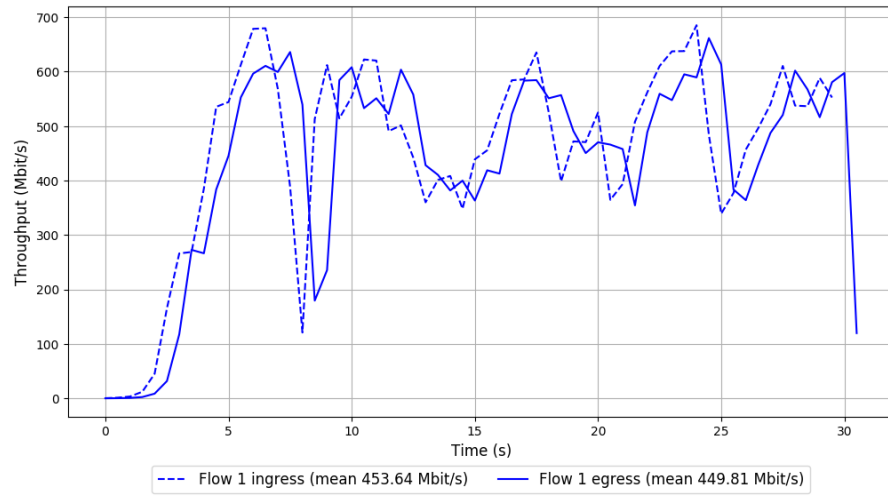
-- Flow 1:

Average throughput: 449.81 Mbit/s

95th percentile per-packet one-way delay: 229.612 ms

Loss rate: 0.84%

# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-01-21 16:12:13

End at: 2019-01-21 16:12:43

Local clock offset: 0.187 ms

Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2019-01-21 18:44:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 454.37 Mbit/s

95th percentile per-packet one-way delay: 230.261 ms

Loss rate: 0.67%

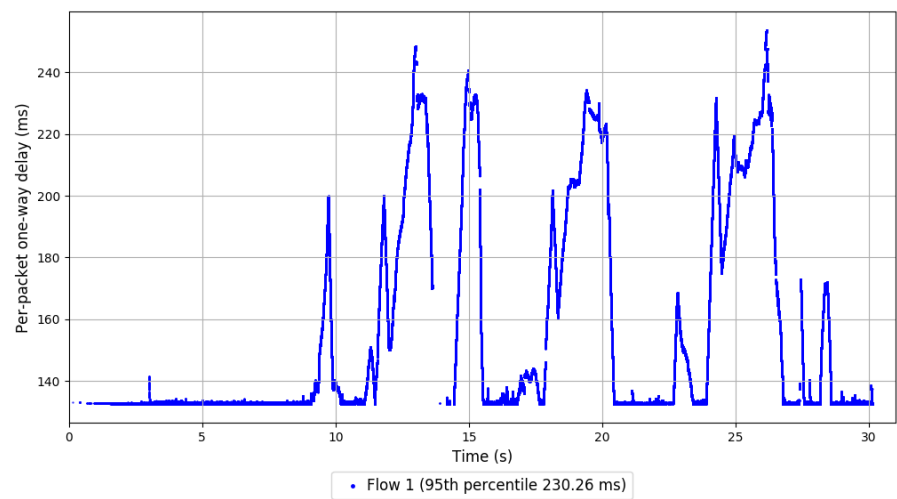
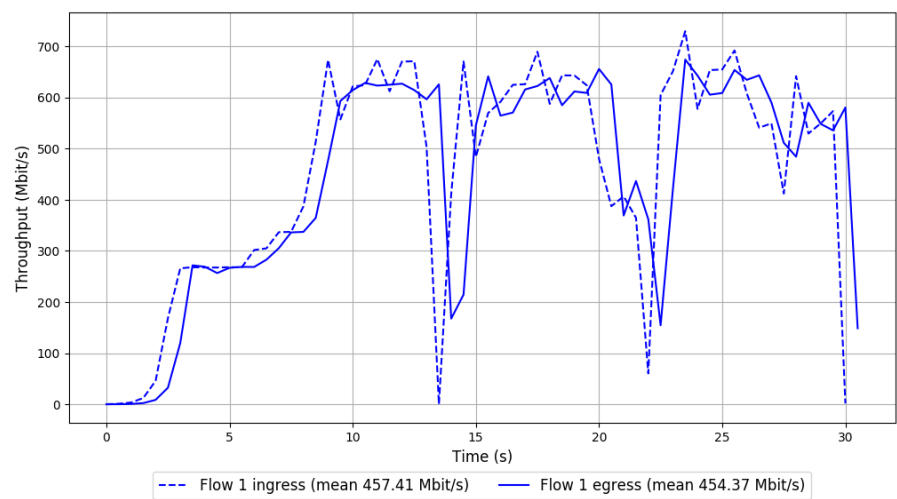
-- Flow 1:

Average throughput: 454.37 Mbit/s

95th percentile per-packet one-way delay: 230.261 ms

Loss rate: 0.67%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-01-21 16:45:22

End at: 2019-01-21 16:45:52

Local clock offset: -0.05 ms

Remote clock offset: 0.029 ms

# Below is generated by plot.py at 2019-01-21 18:44:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 457.85 Mbit/s

95th percentile per-packet one-way delay: 248.343 ms

Loss rate: 2.64%

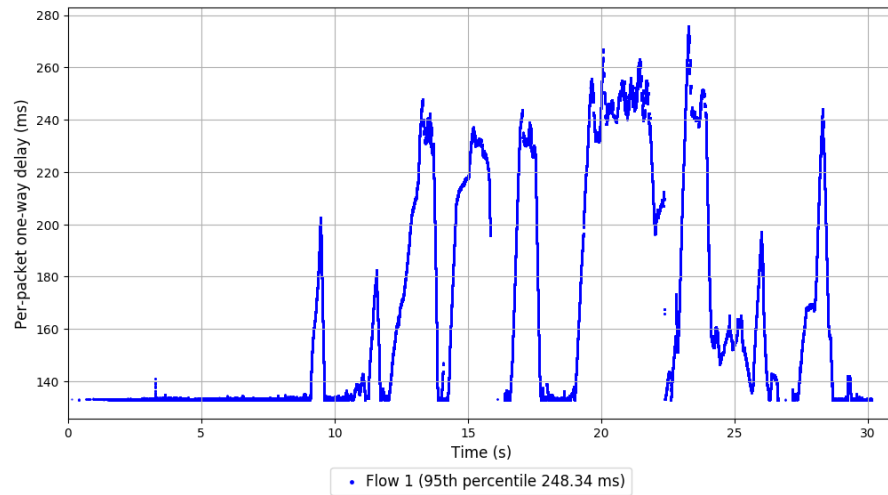
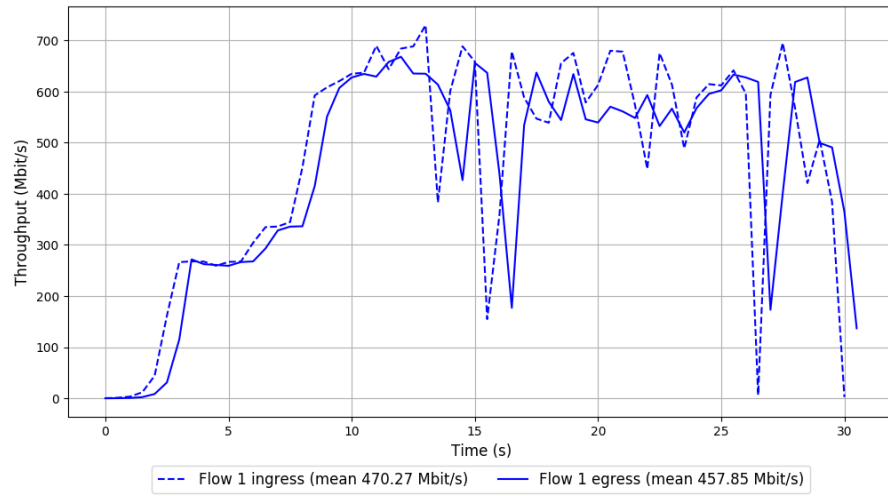
-- Flow 1:

Average throughput: 457.85 Mbit/s

95th percentile per-packet one-way delay: 248.343 ms

Loss rate: 2.64%

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



Run 4: Statistics of TCP BBR

Start at: 2019-01-21 17:18:24

End at: 2019-01-21 17:18:54

Local clock offset: 0.283 ms

Remote clock offset: 0.394 ms

# Below is generated by plot.py at 2019-01-21 18:44:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 396.02 Mbit/s

95th percentile per-packet one-way delay: 225.133 ms

Loss rate: 0.72%

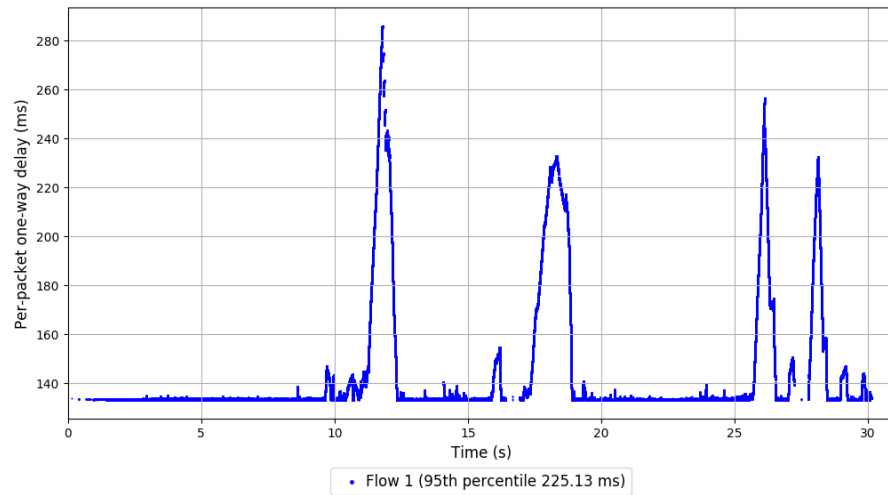
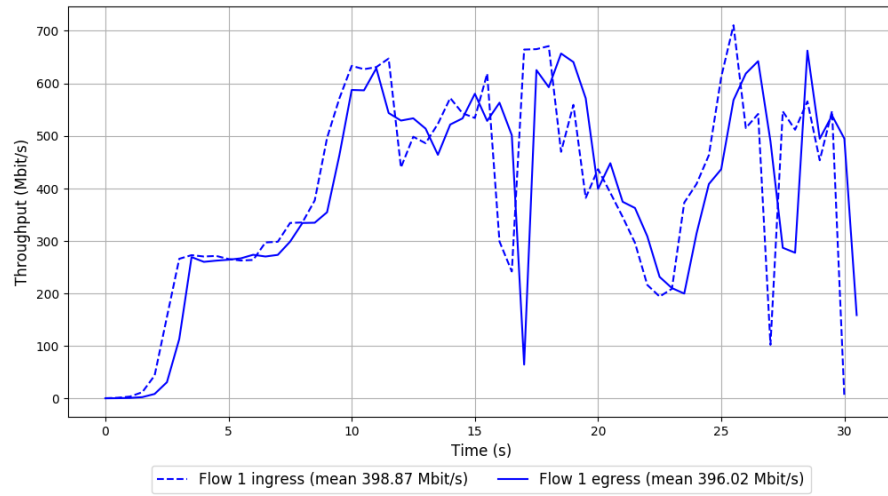
-- Flow 1:

Average throughput: 396.02 Mbit/s

95th percentile per-packet one-way delay: 225.133 ms

Loss rate: 0.72%

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



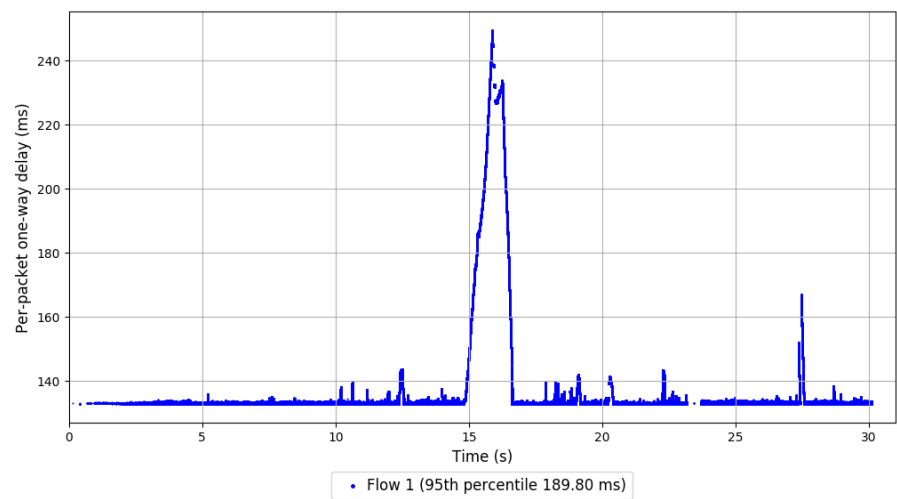
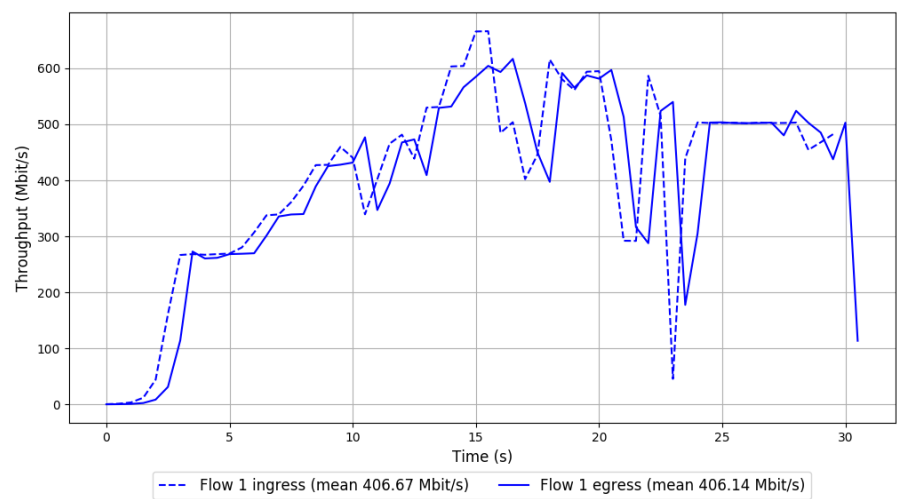


Run 5: Statistics of TCP BBR

Start at: 2019-01-21 17:51:41  
End at: 2019-01-21 17:52:11  
Local clock offset: -0.031 ms  
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2019-01-21 18:44:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 406.14 Mbit/s  
95th percentile per-packet one-way delay: 189.796 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 406.14 Mbit/s  
95th percentile per-packet one-way delay: 189.796 ms  
Loss rate: 0.13%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-01-21 15:48:23

End at: 2019-01-21 15:48:53

Local clock offset: 0.221 ms

Remote clock offset: 0.423 ms

# Below is generated by plot.py at 2019-01-21 18:45:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 279.60 Mbit/s

95th percentile per-packet one-way delay: 228.986 ms

Loss rate: 0.00%

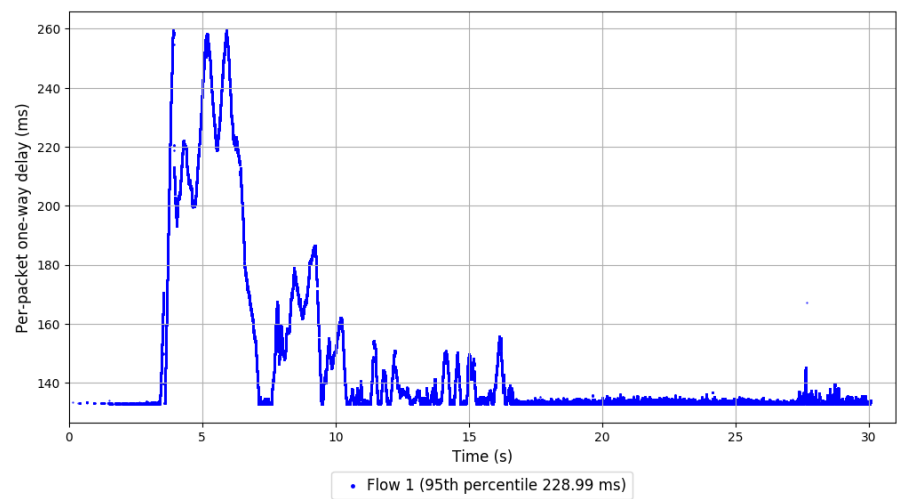
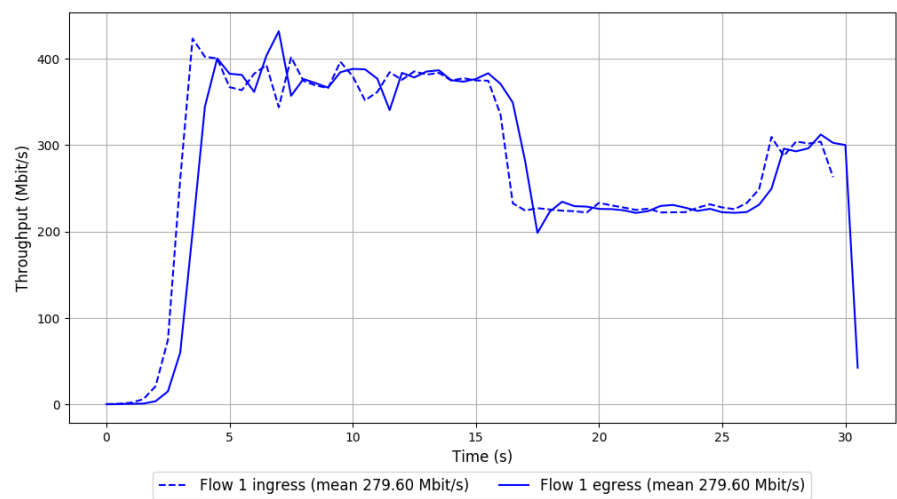
-- Flow 1:

Average throughput: 279.60 Mbit/s

95th percentile per-packet one-way delay: 228.986 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link

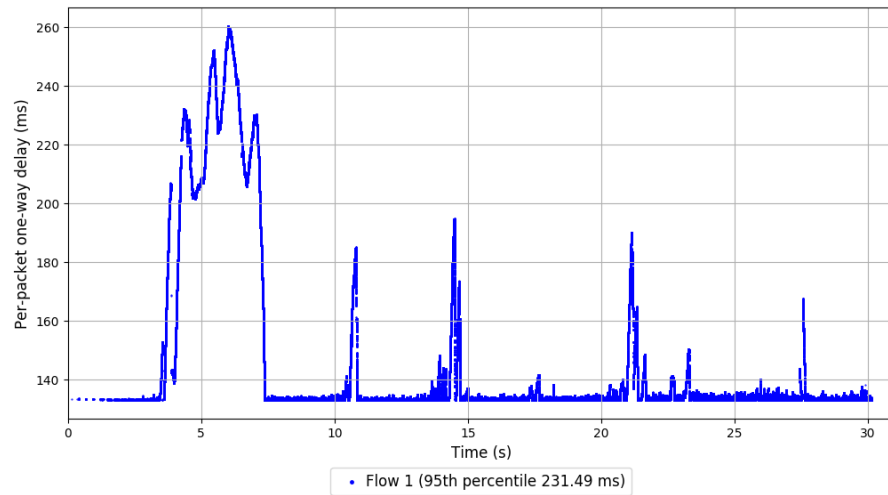
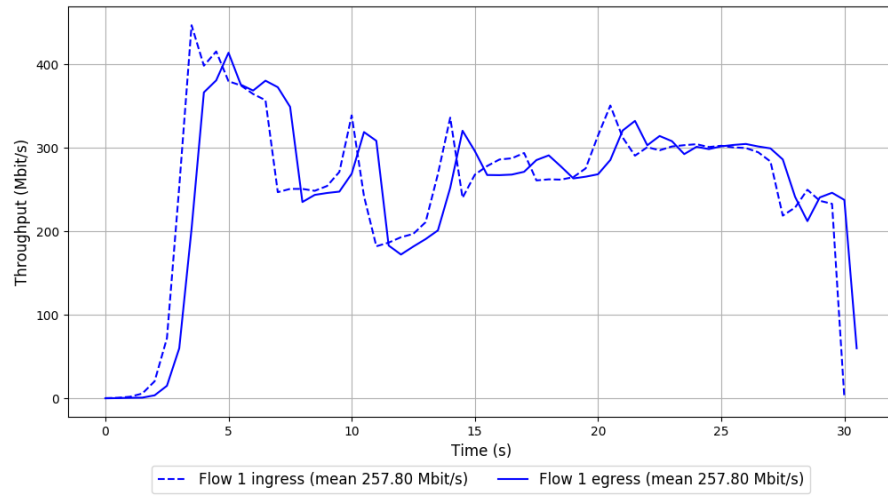


Run 2: Statistics of Copa

Start at: 2019-01-21 16:21:36  
End at: 2019-01-21 16:22:06  
Local clock offset: -0.277 ms  
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2019-01-21 18:45:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 257.80 Mbit/s  
95th percentile per-packet one-way delay: 231.487 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 257.80 Mbit/s  
95th percentile per-packet one-way delay: 231.487 ms  
Loss rate: 0.00%

## Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-01-21 16:54:15

End at: 2019-01-21 16:54:45

Local clock offset: -0.508 ms

Remote clock offset: 0.025 ms

# Below is generated by plot.py at 2019-01-21 18:47:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 317.11 Mbit/s

95th percentile per-packet one-way delay: 142.348 ms

Loss rate: 0.00%

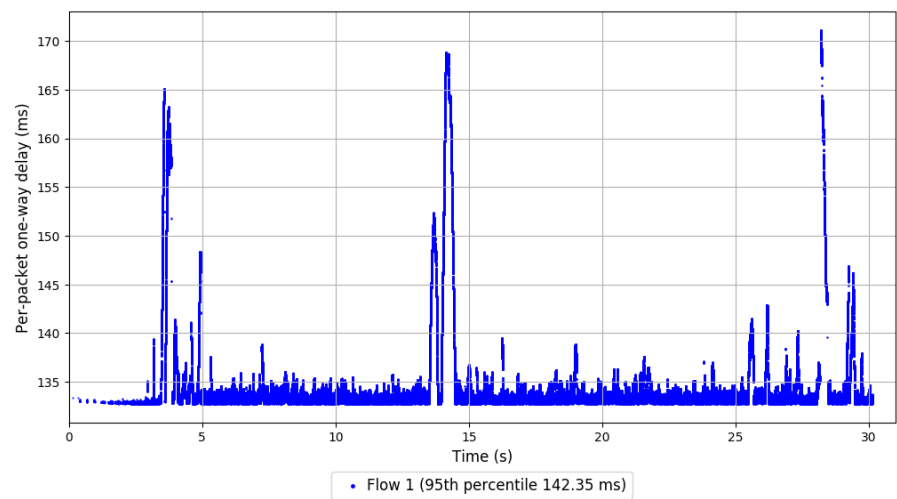
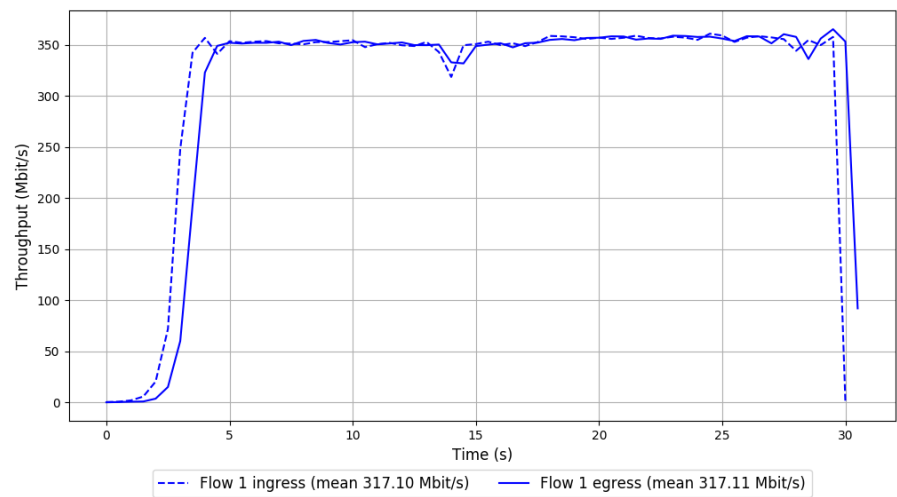
-- Flow 1:

Average throughput: 317.11 Mbit/s

95th percentile per-packet one-way delay: 142.348 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link





Run 4: Statistics of Copa

Start at: 2019-01-21 17:27:56

End at: 2019-01-21 17:28:26

Local clock offset: -0.23 ms

Remote clock offset: 0.033 ms

# Below is generated by plot.py at 2019-01-21 18:55:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 266.35 Mbit/s

95th percentile per-packet one-way delay: 141.873 ms

Loss rate: 0.00%

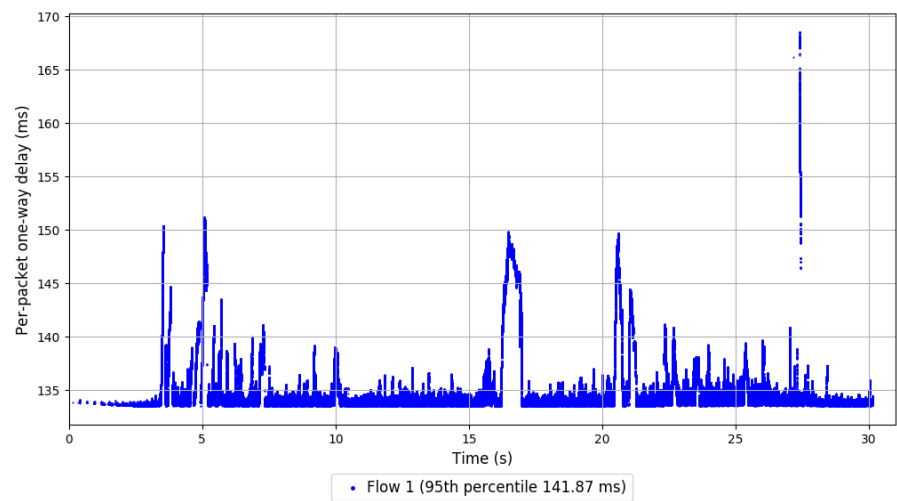
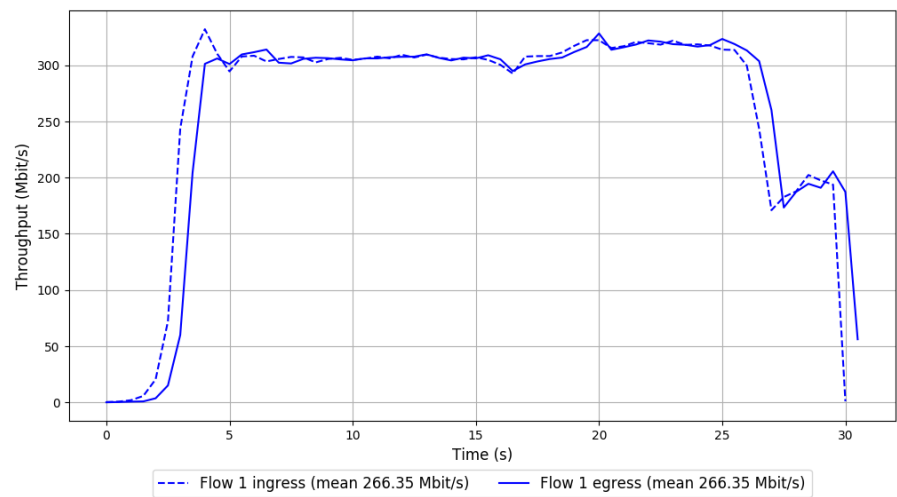
-- Flow 1:

Average throughput: 266.35 Mbit/s

95th percentile per-packet one-way delay: 141.873 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-01-21 18:00:41

End at: 2019-01-21 18:01:11

Local clock offset: -0.193 ms

Remote clock offset: 0.037 ms

# Below is generated by plot.py at 2019-01-21 18:56:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 309.91 Mbit/s

95th percentile per-packet one-way delay: 184.030 ms

Loss rate: 0.00%

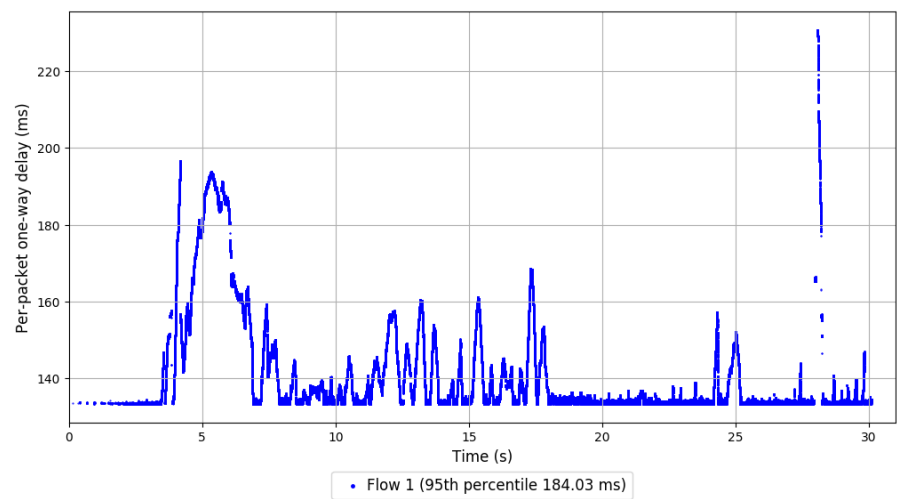
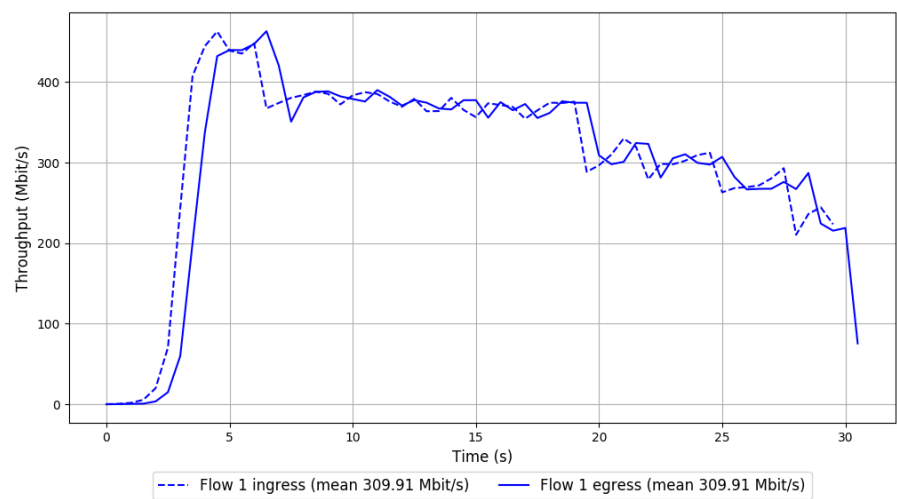
-- Flow 1:

Average throughput: 309.91 Mbit/s

95th percentile per-packet one-way delay: 184.030 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-01-21 15:43:29

End at: 2019-01-21 15:43:59

Local clock offset: 0.183 ms

Remote clock offset: 0.073 ms

# Below is generated by plot.py at 2019-01-21 18:56:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 502.91 Mbit/s

95th percentile per-packet one-way delay: 215.697 ms

Loss rate: 0.29%

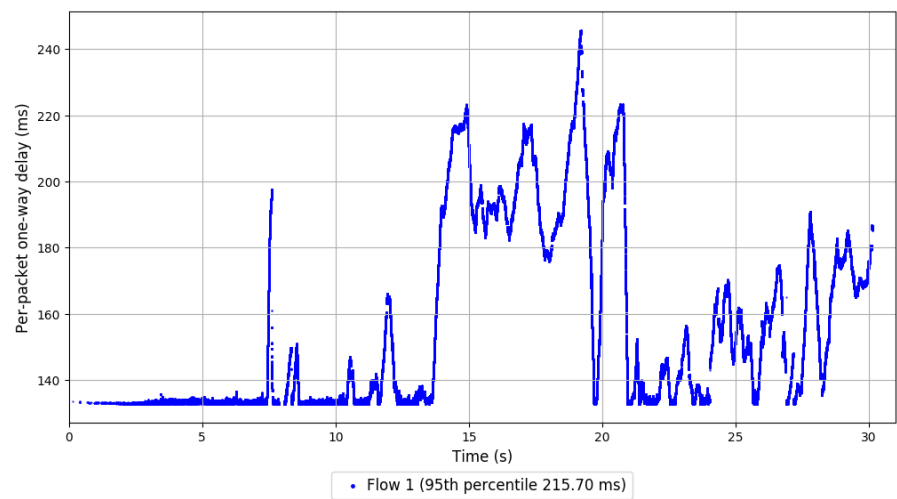
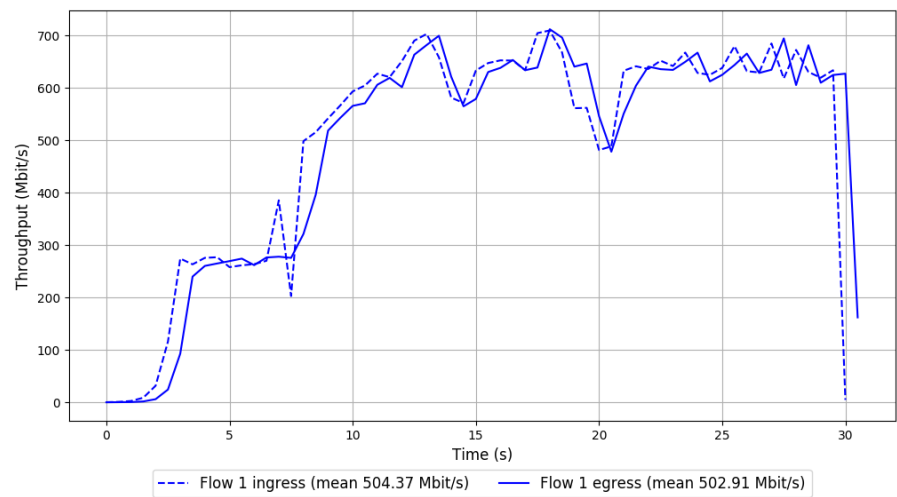
-- Flow 1:

Average throughput: 502.91 Mbit/s

95th percentile per-packet one-way delay: 215.697 ms

Loss rate: 0.29%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-01-21 16:16:45

End at: 2019-01-21 16:17:15

Local clock offset: -0.102 ms

Remote clock offset: 0.013 ms

# Below is generated by plot.py at 2019-01-21 18:57:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 540.52 Mbit/s

95th percentile per-packet one-way delay: 216.115 ms

Loss rate: 0.09%

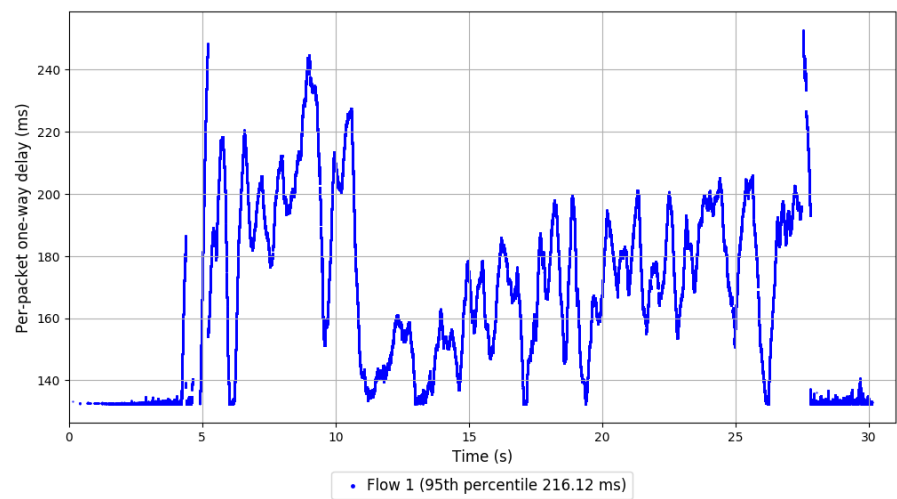
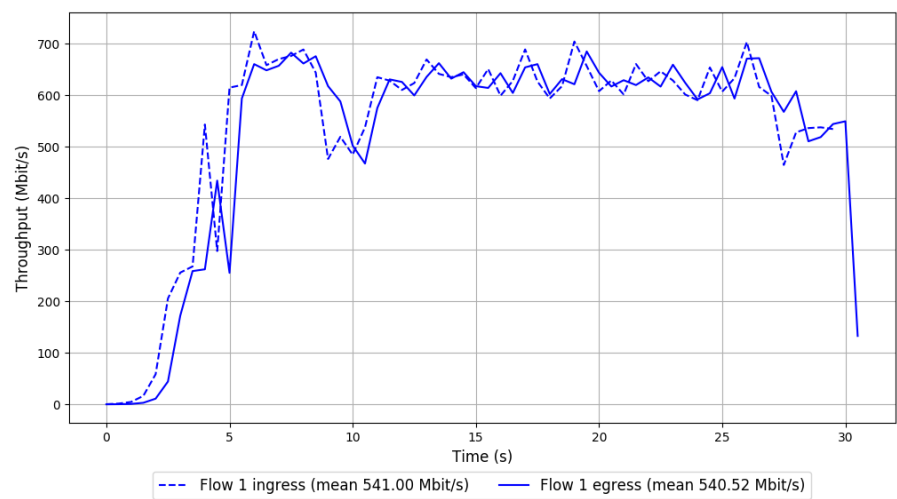
-- Flow 1:

Average throughput: 540.52 Mbit/s

95th percentile per-packet one-way delay: 216.115 ms

Loss rate: 0.09%

Run 2: Report of TCP Cubic — Data Link





Run 3: Statistics of TCP Cubic

Start at: 2019-01-21 16:49:43

End at: 2019-01-21 16:50:13

Local clock offset: -0.035 ms

Remote clock offset: 0.395 ms

# Below is generated by plot.py at 2019-01-21 18:57:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.30 Mbit/s

95th percentile per-packet one-way delay: 133.506 ms

Loss rate: 0.00%

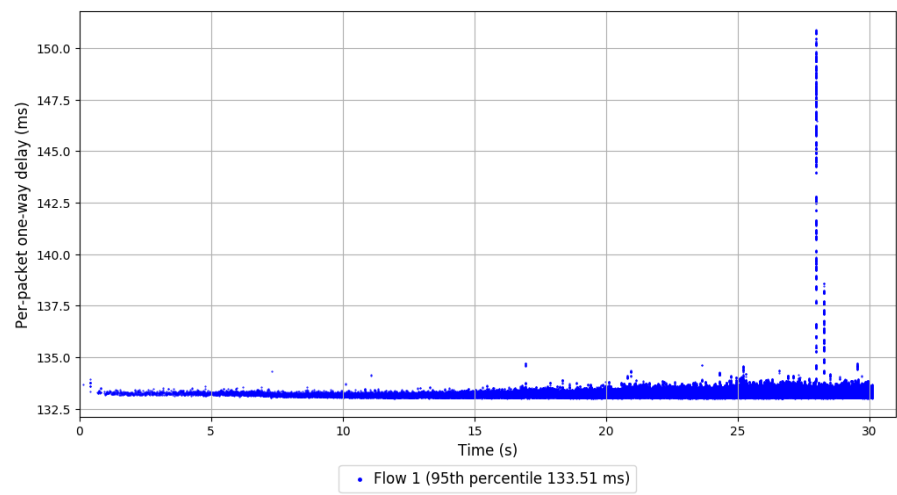
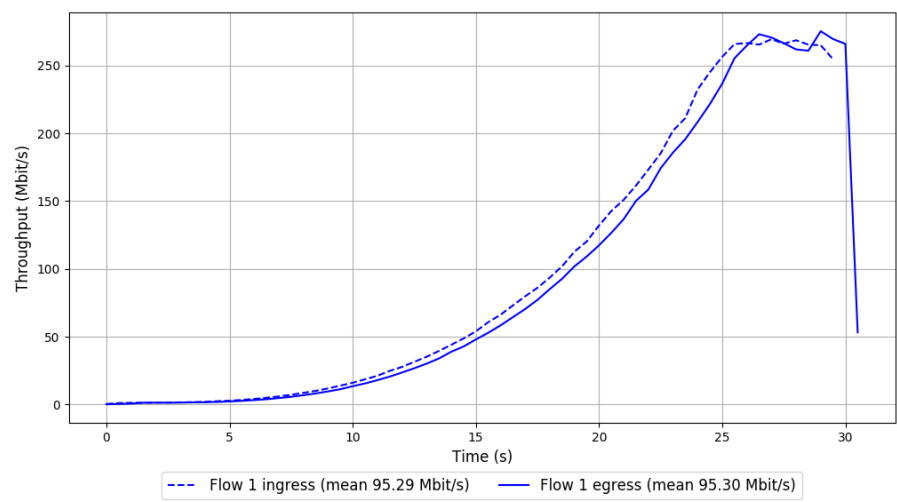
-- Flow 1:

Average throughput: 95.30 Mbit/s

95th percentile per-packet one-way delay: 133.506 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link

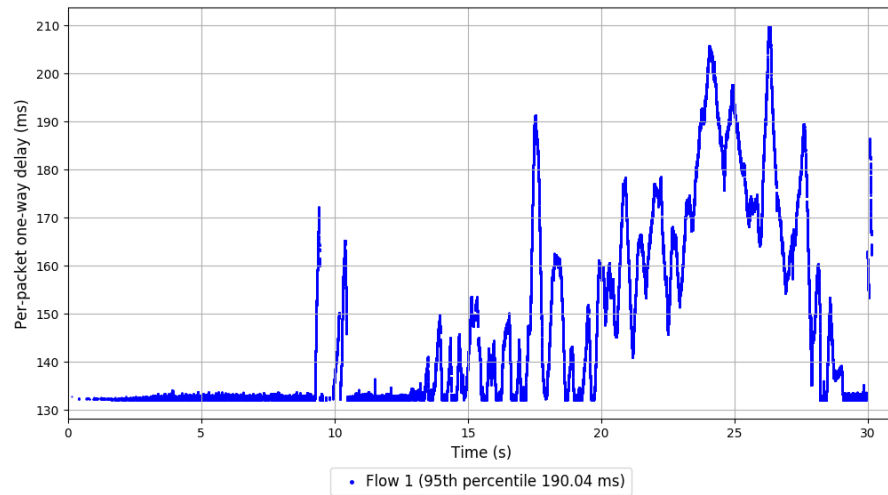
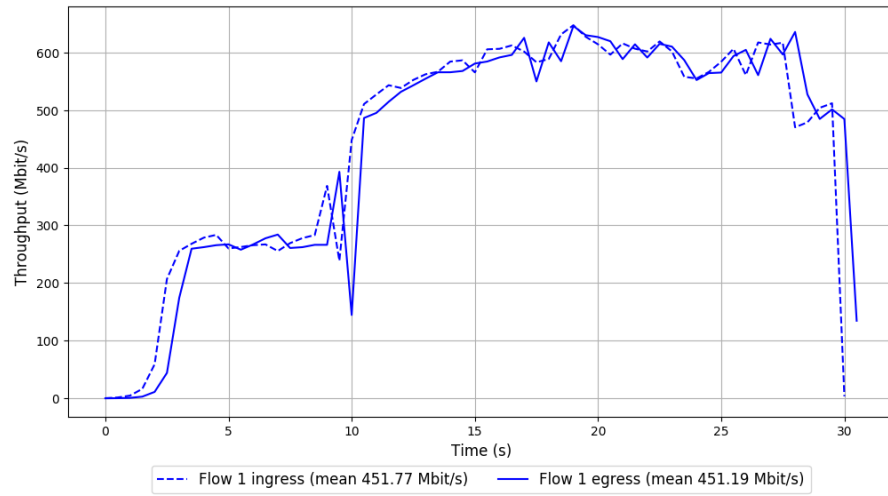


Run 4: Statistics of TCP Cubic

Start at: 2019-01-21 17:22:51  
End at: 2019-01-21 17:23:21  
Local clock offset: 0.194 ms  
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2019-01-21 18:57:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 451.19 Mbit/s  
95th percentile per-packet one-way delay: 190.037 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 451.19 Mbit/s  
95th percentile per-packet one-way delay: 190.037 ms  
Loss rate: 0.12%

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



Run 5: Statistics of TCP Cubic

Start at: 2019-01-21 17:56:00

End at: 2019-01-21 17:56:30

Local clock offset: -0.59 ms

Remote clock offset: 0.147 ms

# Below is generated by plot.py at 2019-01-21 18:57:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 487.69 Mbit/s

95th percentile per-packet one-way delay: 191.343 ms

Loss rate: 0.00%

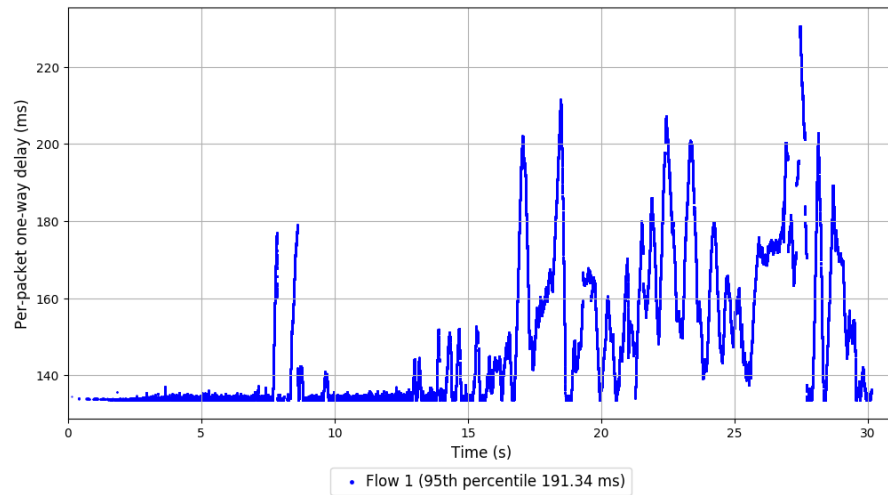
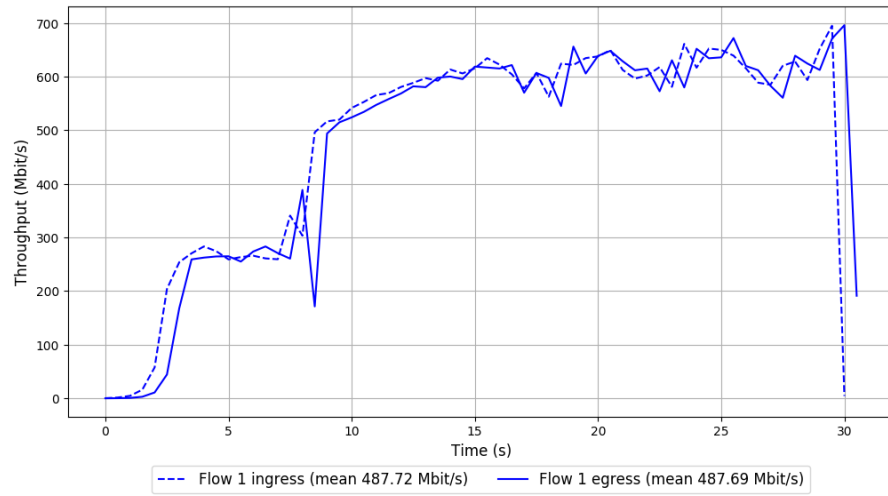
-- Flow 1:

Average throughput: 487.69 Mbit/s

95th percentile per-packet one-way delay: 191.343 ms

Loss rate: 0.00%

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



Run 1: Statistics of FillP

Start at: 2019-01-21 16:00:55

End at: 2019-01-21 16:01:25

Local clock offset: -0.526 ms

Remote clock offset: 0.03 ms

# Below is generated by plot.py at 2019-01-21 19:02:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 573.03 Mbit/s

95th percentile per-packet one-way delay: 198.573 ms

Loss rate: 2.81%

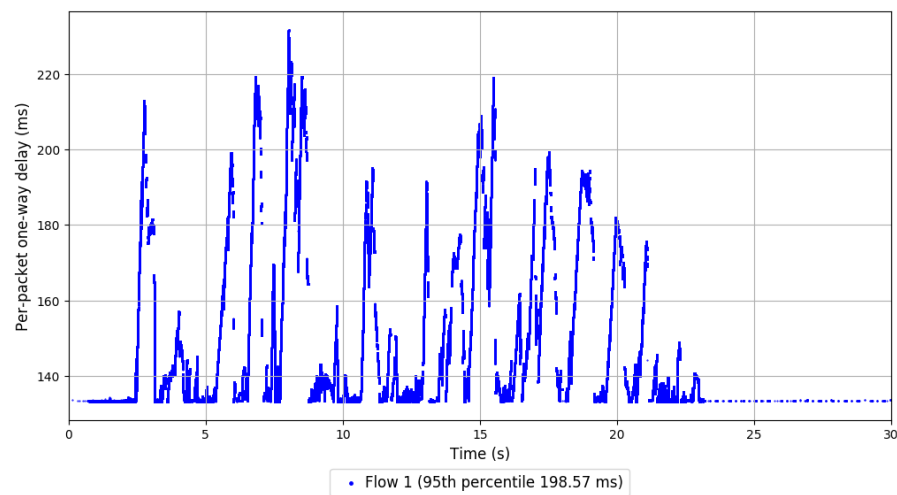
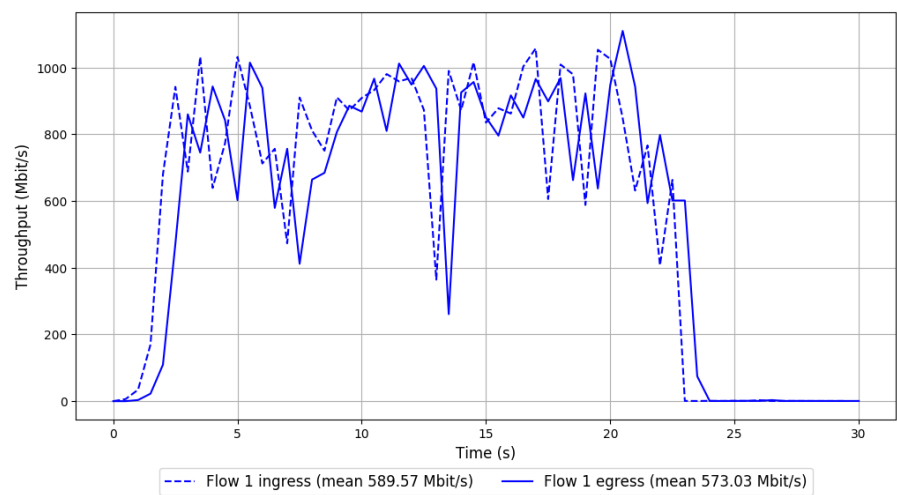
-- Flow 1:

Average throughput: 573.03 Mbit/s

95th percentile per-packet one-way delay: 198.573 ms

Loss rate: 2.81%

Run 1: Report of FillP — Data Link





Run 2: Statistics of FillP

Start at: 2019-01-21 16:33:44

End at: 2019-01-21 16:34:14

Local clock offset: 0.359 ms

Remote clock offset: 0.355 ms

# Below is generated by plot.py at 2019-01-21 19:11:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 792.13 Mbit/s

95th percentile per-packet one-way delay: 197.269 ms

Loss rate: 2.70%

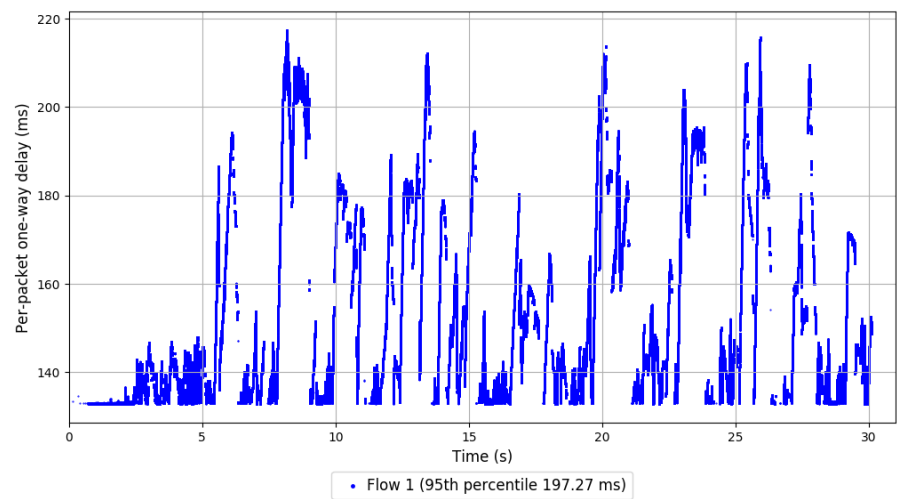
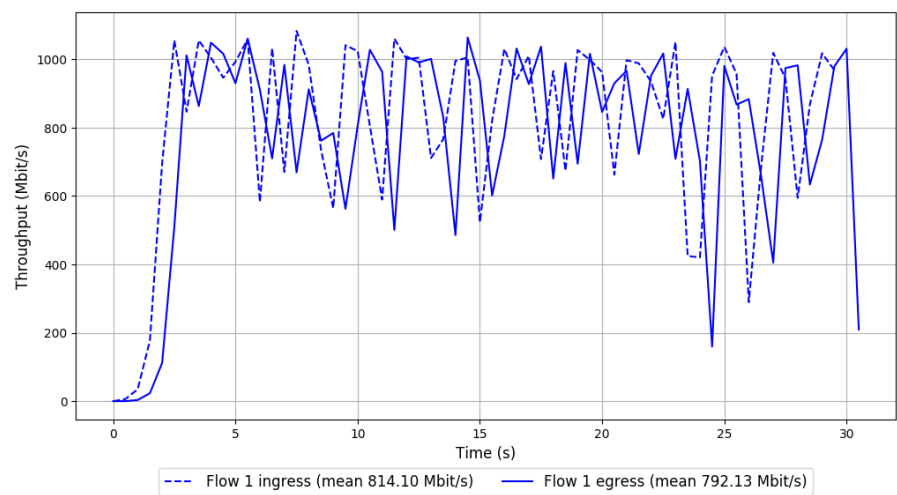
-- Flow 1:

Average throughput: 792.13 Mbit/s

95th percentile per-packet one-way delay: 197.269 ms

Loss rate: 2.70%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-01-21 17:07:31

End at: 2019-01-21 17:08:01

Local clock offset: -0.15 ms

Remote clock offset: 0.371 ms

# Below is generated by plot.py at 2019-01-21 19:11:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 534.70 Mbit/s

95th percentile per-packet one-way delay: 200.563 ms

Loss rate: 2.75%

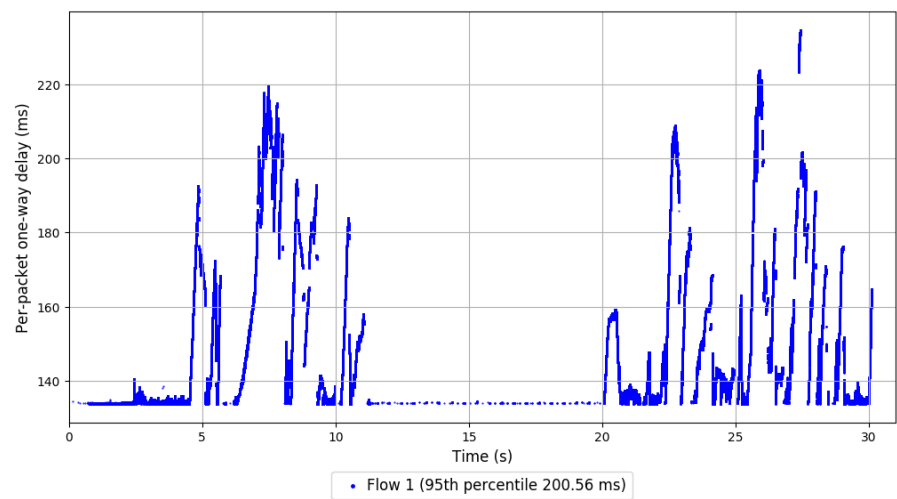
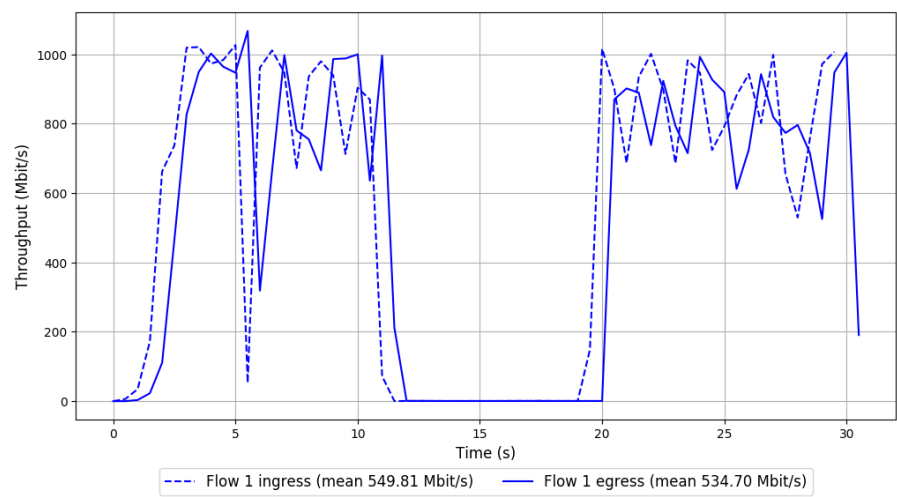
-- Flow 1:

Average throughput: 534.70 Mbit/s

95th percentile per-packet one-way delay: 200.563 ms

Loss rate: 2.75%

Run 3: Report of FillP — Data Link

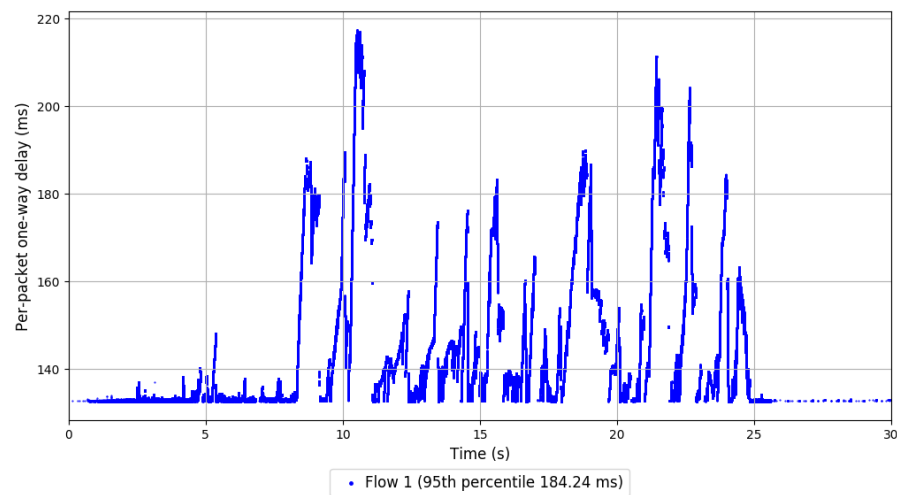
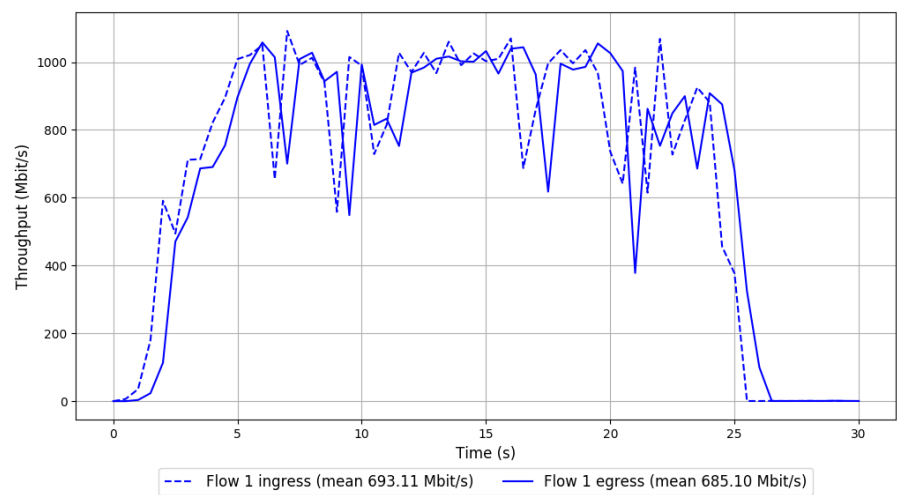


Run 4: Statistics of FillP

Start at: 2019-01-21 17:40:47  
End at: 2019-01-21 17:41:18  
Local clock offset: -0.08 ms  
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-01-21 19:16:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 685.10 Mbit/s  
95th percentile per-packet one-way delay: 184.241 ms  
Loss rate: 1.16%  
-- Flow 1:  
Average throughput: 685.10 Mbit/s  
95th percentile per-packet one-way delay: 184.241 ms  
Loss rate: 1.16%

Run 4: Report of FillP — Data Link

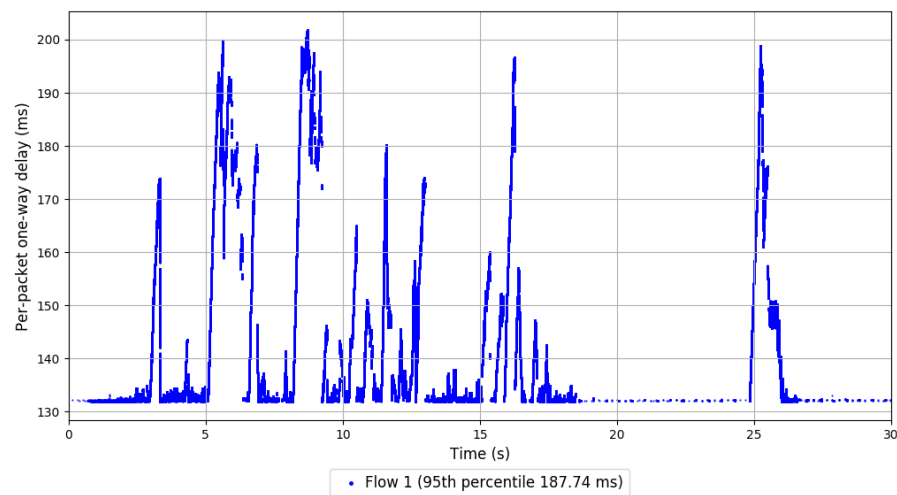
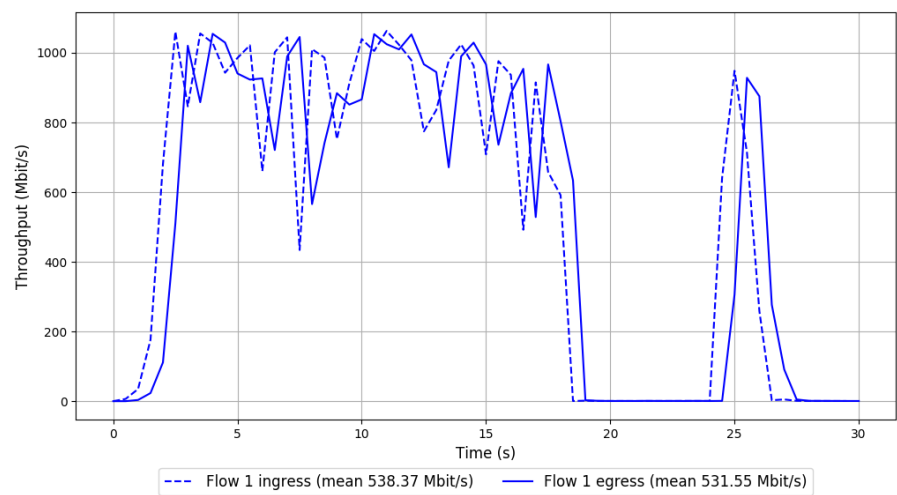


Run 5: Statistics of FillP

Start at: 2019-01-21 18:13:09  
End at: 2019-01-21 18:13:39  
Local clock offset: 0.185 ms  
Remote clock offset: -0.307 ms

# Below is generated by plot.py at 2019-01-21 19:16:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 531.55 Mbit/s  
95th percentile per-packet one-way delay: 187.740 ms  
Loss rate: 1.27%  
-- Flow 1:  
Average throughput: 531.55 Mbit/s  
95th percentile per-packet one-way delay: 187.740 ms  
Loss rate: 1.27%

Run 5: Report of FillP — Data Link





Run 1: Statistics of FillP-Sheep

Start at: 2019-01-21 16:10:08

End at: 2019-01-21 16:10:38

Local clock offset: -0.116 ms

Remote clock offset: 0.042 ms

# Below is generated by plot.py at 2019-01-21 19:20:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 787.69 Mbit/s

95th percentile per-packet one-way delay: 180.428 ms

Loss rate: 0.52%

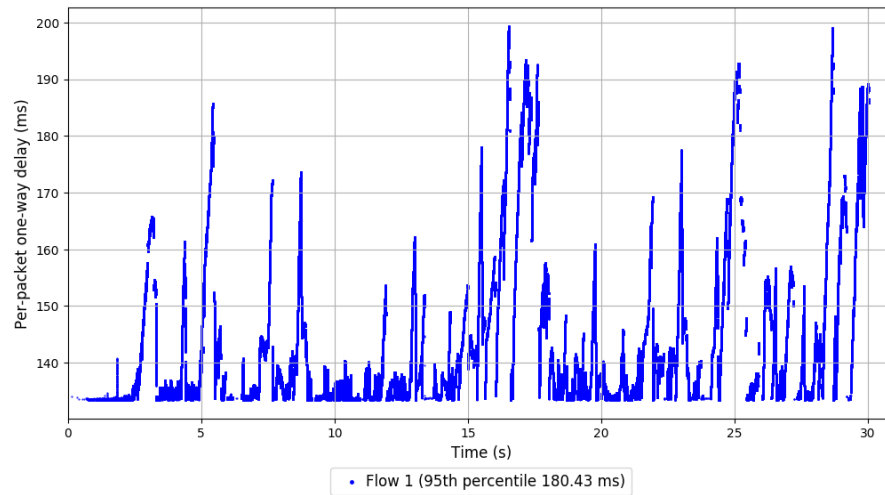
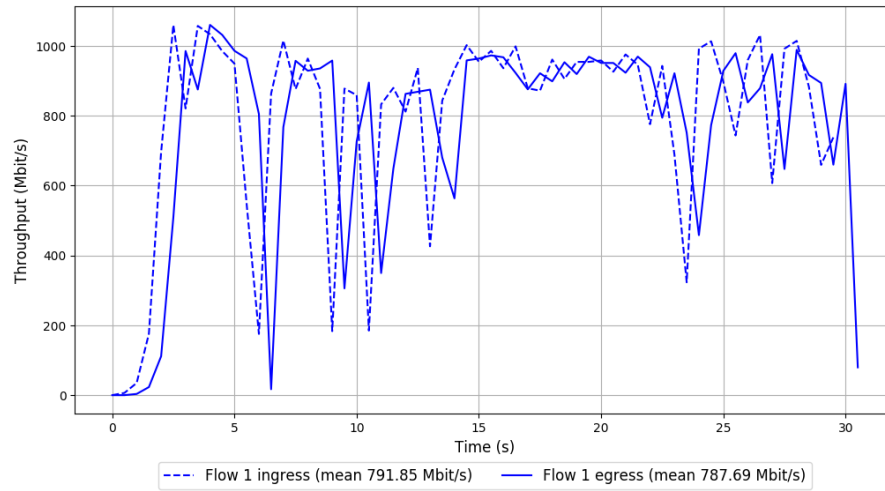
-- Flow 1:

Average throughput: 787.69 Mbit/s

95th percentile per-packet one-way delay: 180.428 ms

Loss rate: 0.52%

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

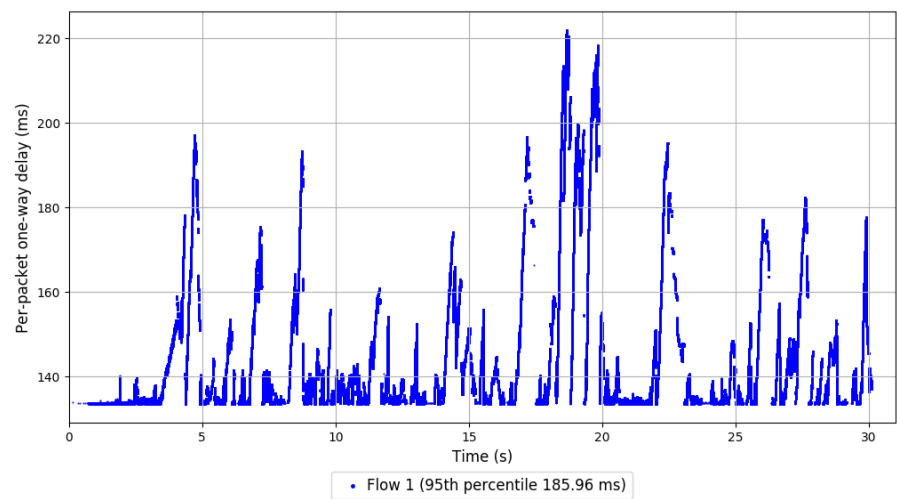
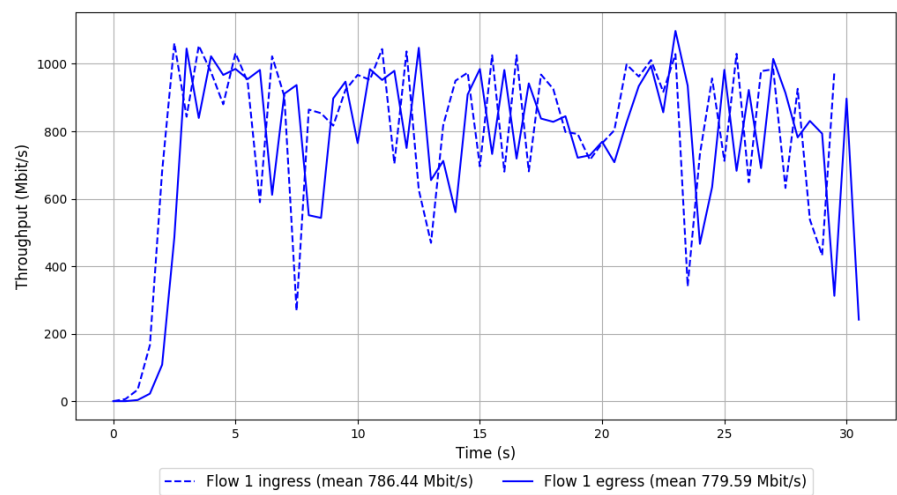


Run 2: Statistics of FillP-Sheep

Start at: 2019-01-21 16:43:23  
End at: 2019-01-21 16:43:53  
Local clock offset: -0.452 ms  
Remote clock offset: -0.375 ms

# Below is generated by plot.py at 2019-01-21 19:20:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 779.59 Mbit/s  
95th percentile per-packet one-way delay: 185.961 ms  
Loss rate: 0.87%  
-- Flow 1:  
Average throughput: 779.59 Mbit/s  
95th percentile per-packet one-way delay: 185.961 ms  
Loss rate: 0.87%

Run 2: Report of FillP-Sheep — Data Link

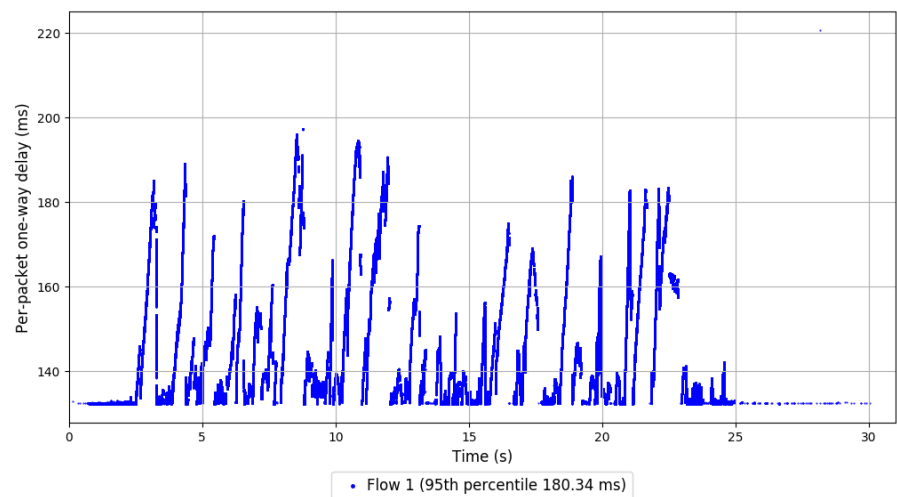
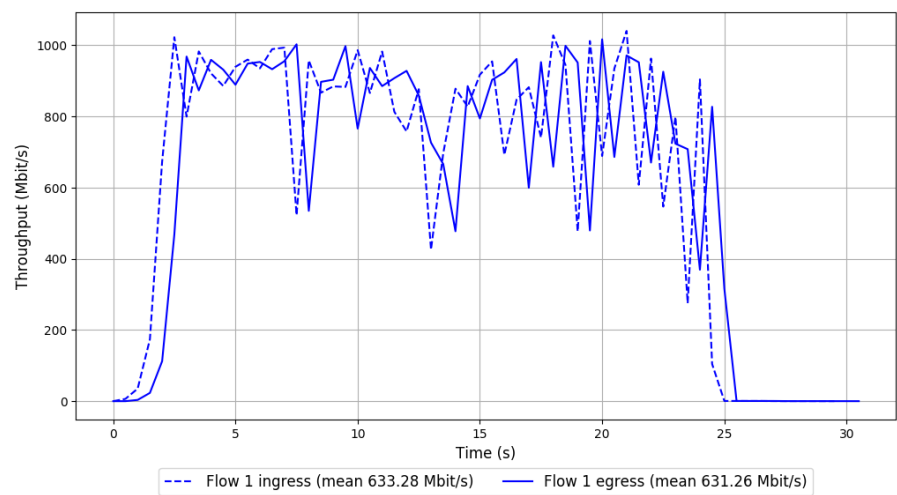


Run 3: Statistics of FillP-Sheep

Start at: 2019-01-21 17:16:43  
End at: 2019-01-21 17:17:13  
Local clock offset: 0.01 ms  
Remote clock offset: -0.328 ms

# Below is generated by plot.py at 2019-01-21 19:20:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 631.26 Mbit/s  
95th percentile per-packet one-way delay: 180.345 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 631.26 Mbit/s  
95th percentile per-packet one-way delay: 180.345 ms  
Loss rate: 0.32%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-01-21 17:49:52

End at: 2019-01-21 17:50:22

Local clock offset: 0.191 ms

Remote clock offset: 0.164 ms

# Below is generated by plot.py at 2019-01-21 19:28:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 807.76 Mbit/s

95th percentile per-packet one-way delay: 191.552 ms

Loss rate: 2.24%

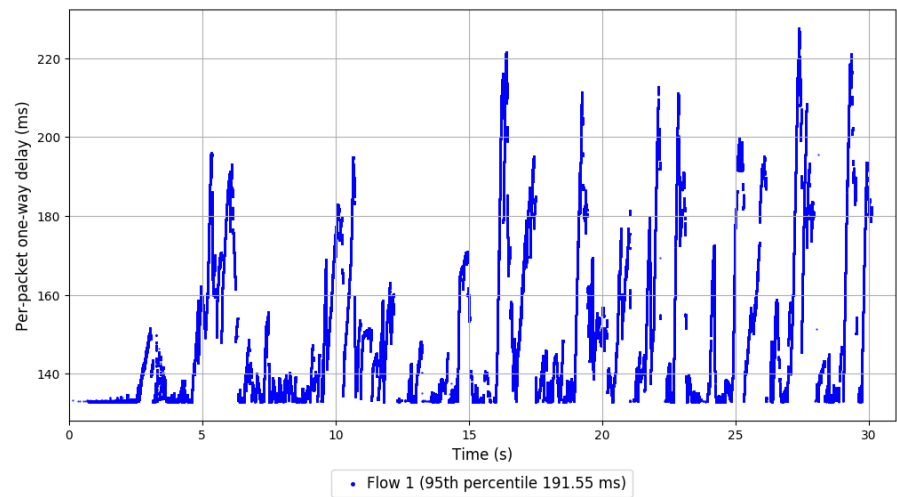
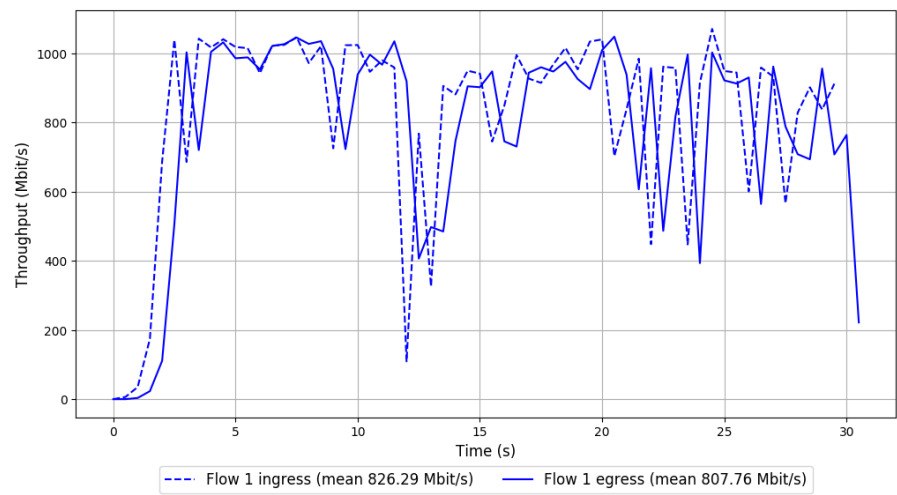
-- Flow 1:

Average throughput: 807.76 Mbit/s

95th percentile per-packet one-way delay: 191.552 ms

Loss rate: 2.24%

Run 4: Report of FillP-Sheep — Data Link





Run 5: Statistics of FillP-Sheep

Start at: 2019-01-21 18:22:08

End at: 2019-01-21 18:22:39

Local clock offset: 0.001 ms

Remote clock offset: 0.162 ms

# Below is generated by plot.py at 2019-01-21 19:33:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 728.98 Mbit/s

95th percentile per-packet one-way delay: 152.823 ms

Loss rate: 0.00%

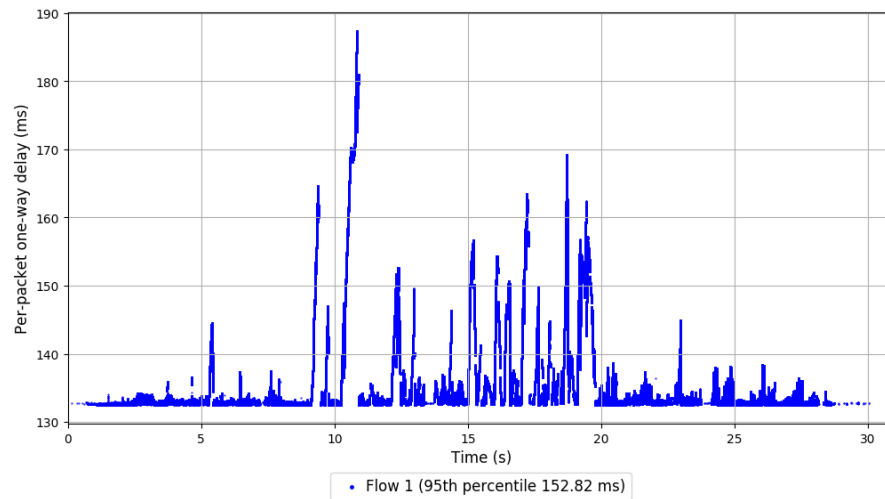
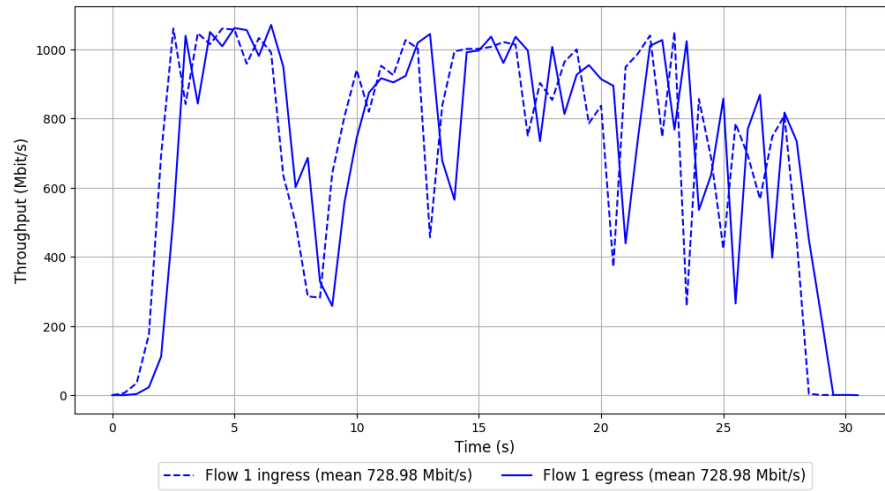
-- Flow 1:

Average throughput: 728.98 Mbit/s

95th percentile per-packet one-way delay: 152.823 ms

Loss rate: 0.00%

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

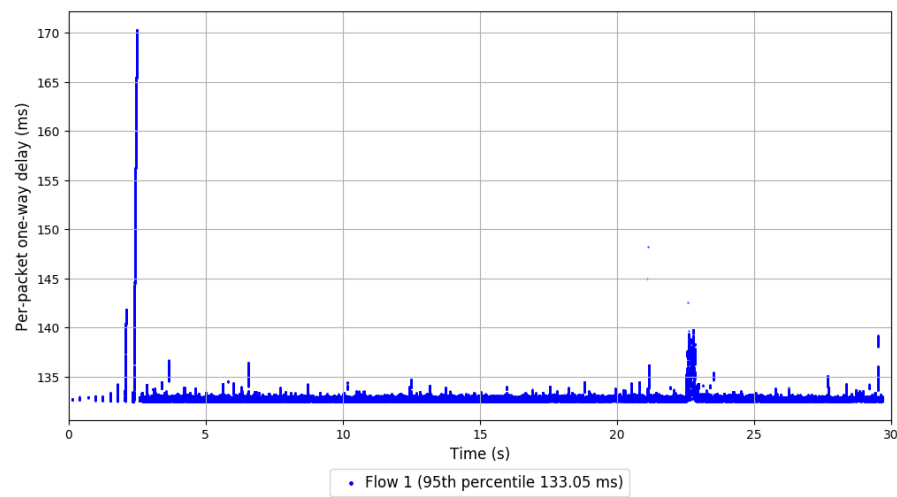
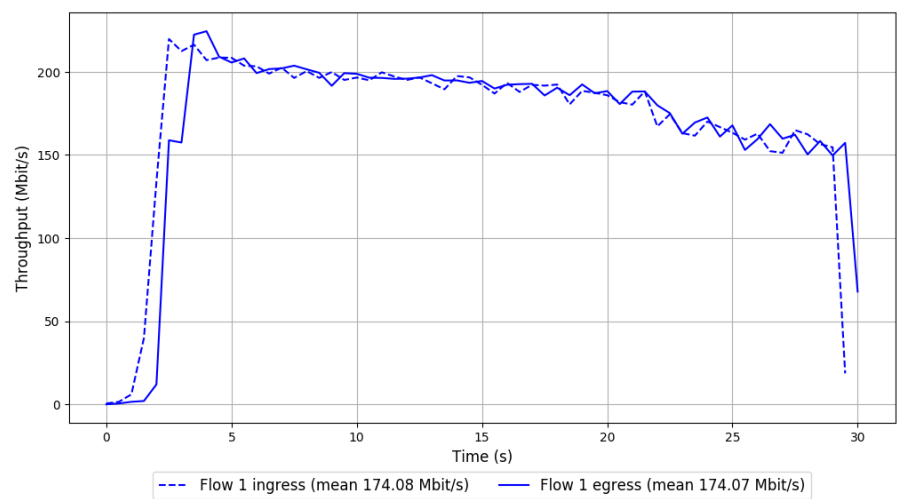


Run 1: Statistics of Indigo

Start at: 2019-01-21 16:04:32  
End at: 2019-01-21 16:05:02  
Local clock offset: 0.092 ms  
Remote clock offset: -0.318 ms

# Below is generated by plot.py at 2019-01-21 19:33:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 174.07 Mbit/s  
95th percentile per-packet one-way delay: 133.054 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 174.07 Mbit/s  
95th percentile per-packet one-way delay: 133.054 ms  
Loss rate: 0.01%

Run 1: Report of Indigo — Data Link

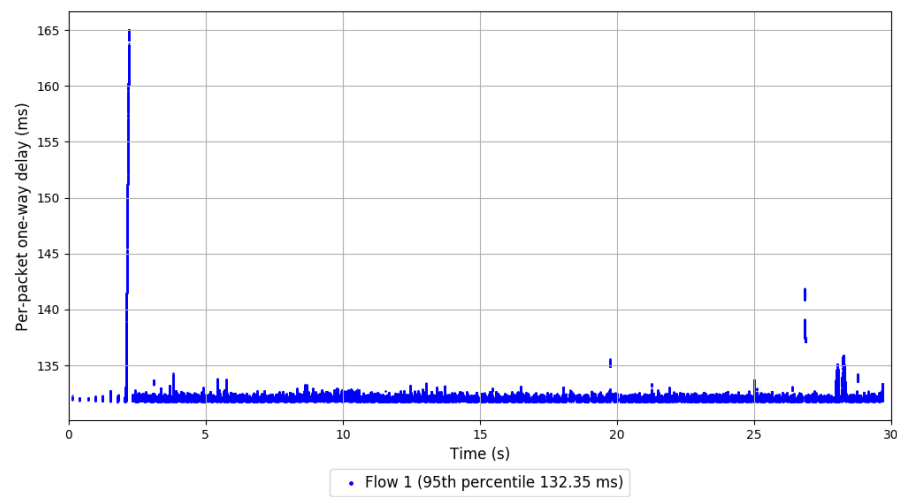
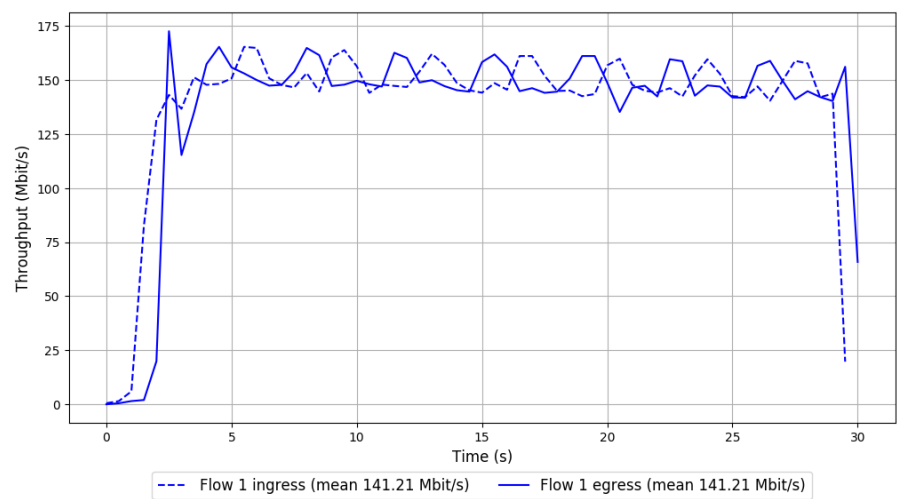


Run 2: Statistics of Indigo

Start at: 2019-01-21 16:37:31  
End at: 2019-01-21 16:38:01  
Local clock offset: 0.515 ms  
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2019-01-21 19:33:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 141.21 Mbit/s  
95th percentile per-packet one-way delay: 132.351 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 141.21 Mbit/s  
95th percentile per-packet one-way delay: 132.351 ms  
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-01-21 17:11:09

End at: 2019-01-21 17:11:39

Local clock offset: 0.251 ms

Remote clock offset: 0.401 ms

# Below is generated by plot.py at 2019-01-21 19:33:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 175.43 Mbit/s

95th percentile per-packet one-way delay: 133.413 ms

Loss rate: 0.00%

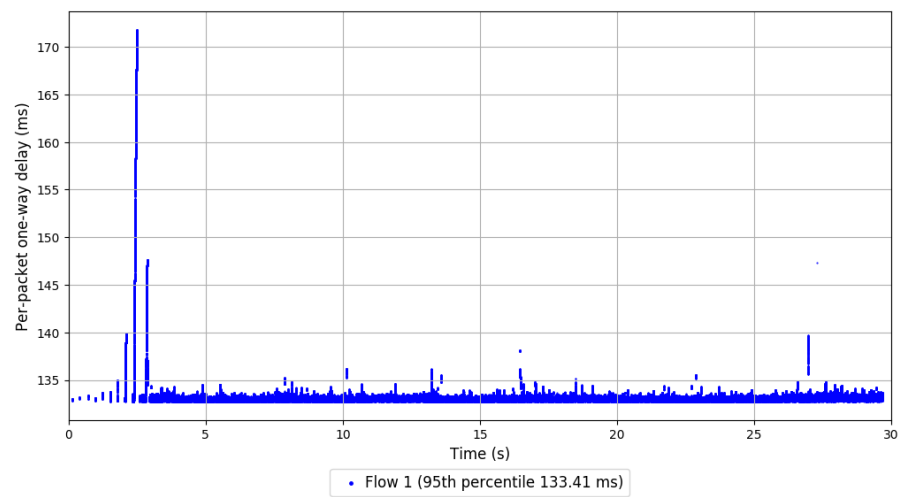
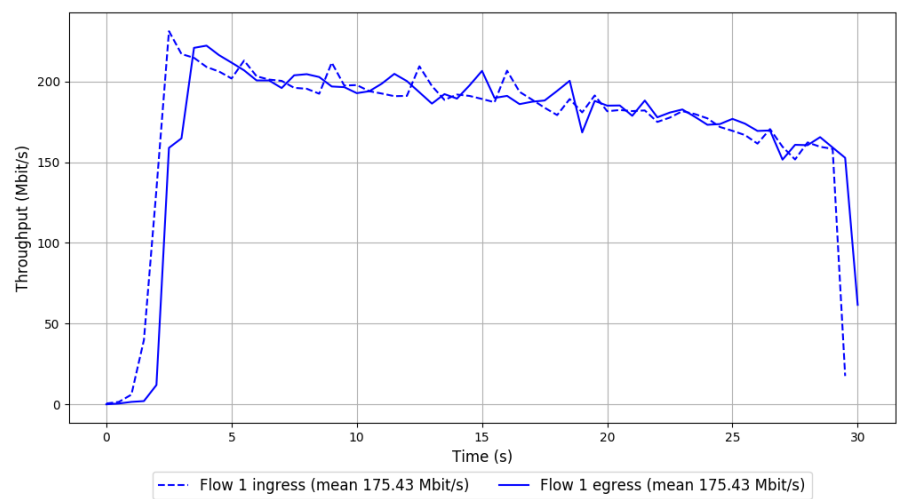
-- Flow 1:

Average throughput: 175.43 Mbit/s

95th percentile per-packet one-way delay: 133.413 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link





Run 4: Statistics of Indigo

Start at: 2019-01-21 17:44:16

End at: 2019-01-21 17:44:46

Local clock offset: -0.374 ms

Remote clock offset: 0.057 ms

# Below is generated by plot.py at 2019-01-21 19:33:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 172.22 Mbit/s

95th percentile per-packet one-way delay: 133.534 ms

Loss rate: 0.00%

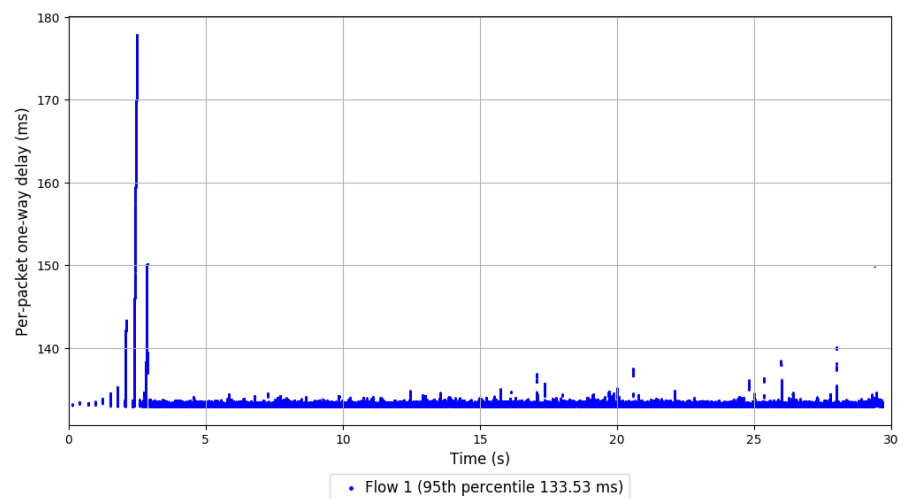
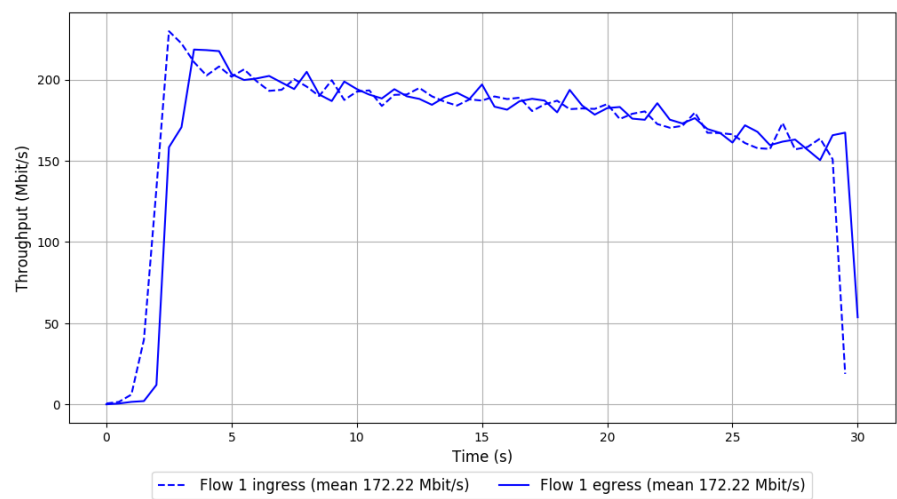
-- Flow 1:

Average throughput: 172.22 Mbit/s

95th percentile per-packet one-way delay: 133.534 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-01-21 18:16:29

End at: 2019-01-21 18:16:59

Local clock offset: -0.38 ms

Remote clock offset: 0.092 ms

# Below is generated by plot.py at 2019-01-21 19:33:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 171.38 Mbit/s

95th percentile per-packet one-way delay: 133.746 ms

Loss rate: 0.00%

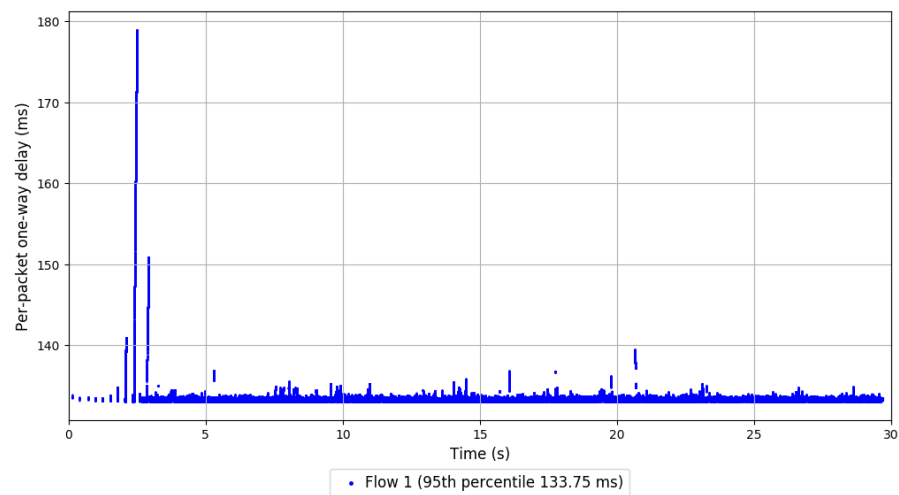
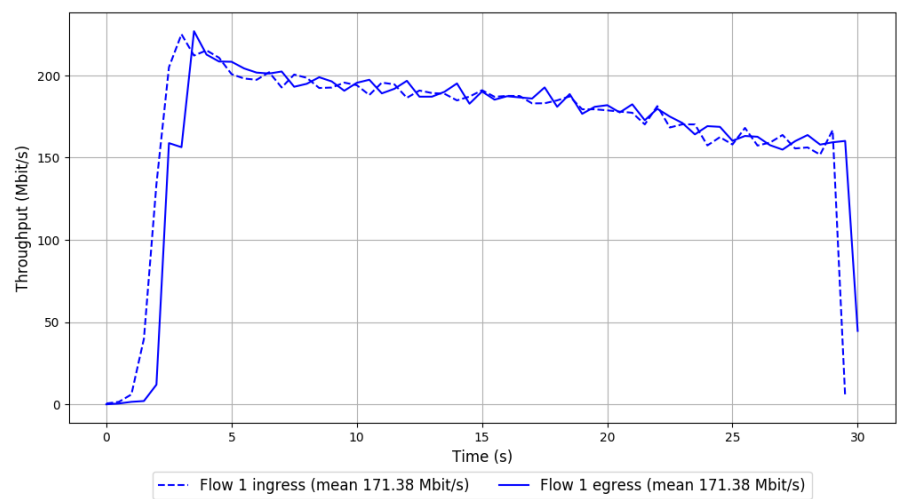
-- Flow 1:

Average throughput: 171.38 Mbit/s

95th percentile per-packet one-way delay: 133.746 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-01-21 16:07:14

End at: 2019-01-21 16:07:44

Local clock offset: 0.091 ms

Remote clock offset: 0.053 ms

# Below is generated by plot.py at 2019-01-21 19:33:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 581.99 Mbit/s

95th percentile per-packet one-way delay: 142.825 ms

Loss rate: 0.01%

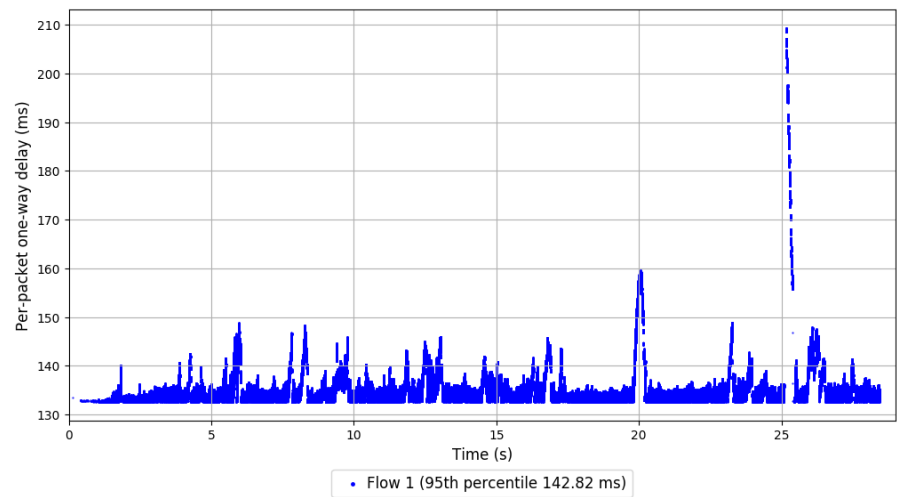
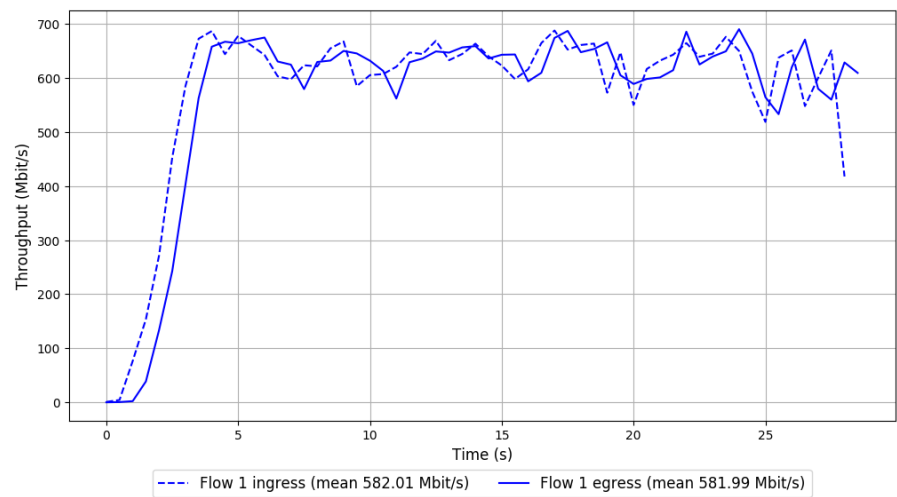
-- Flow 1:

Average throughput: 581.99 Mbit/s

95th percentile per-packet one-way delay: 142.825 ms

Loss rate: 0.01%

Run 1: Report of Indigo-MusesC3 — Data Link

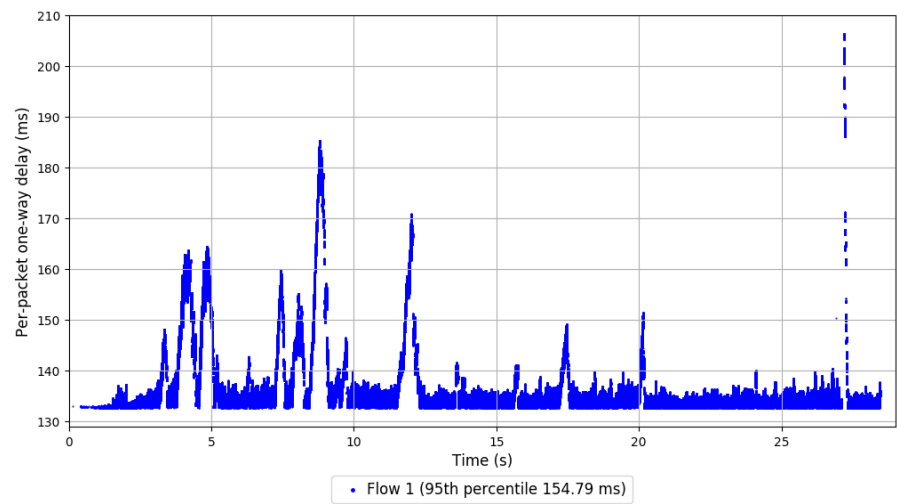
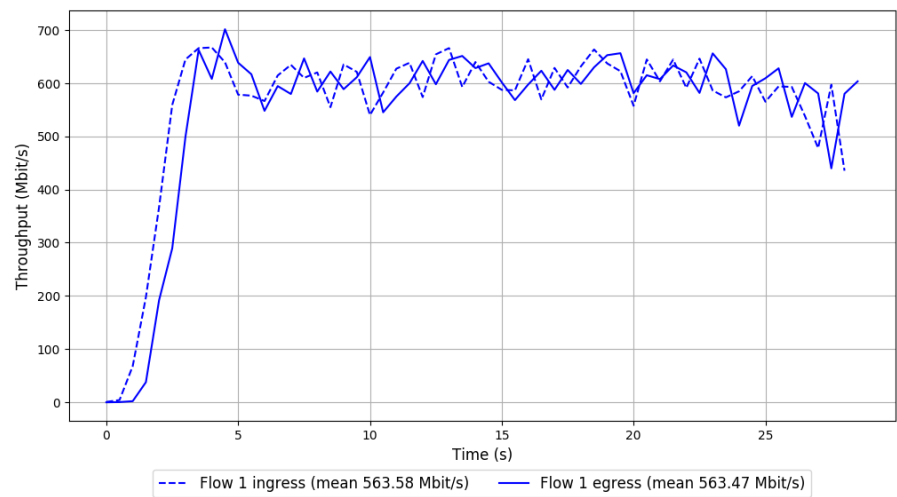


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-01-21 16:40:25  
End at: 2019-01-21 16:40:55  
Local clock offset: -0.201 ms  
Remote clock offset: -0.374 ms

# Below is generated by plot.py at 2019-01-21 19:35:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 563.47 Mbit/s  
95th percentile per-packet one-way delay: 154.792 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 563.47 Mbit/s  
95th percentile per-packet one-way delay: 154.792 ms  
Loss rate: 0.02%

Run 2: Report of Indigo-MusesC3 — Data Link





Run 3: Statistics of Indigo-MusesC3

Start at: 2019-01-21 17:13:51

End at: 2019-01-21 17:14:21

Local clock offset: -0.164 ms

Remote clock offset: 0.039 ms

# Below is generated by plot.py at 2019-01-21 19:35:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 567.42 Mbit/s

95th percentile per-packet one-way delay: 141.915 ms

Loss rate: 0.00%

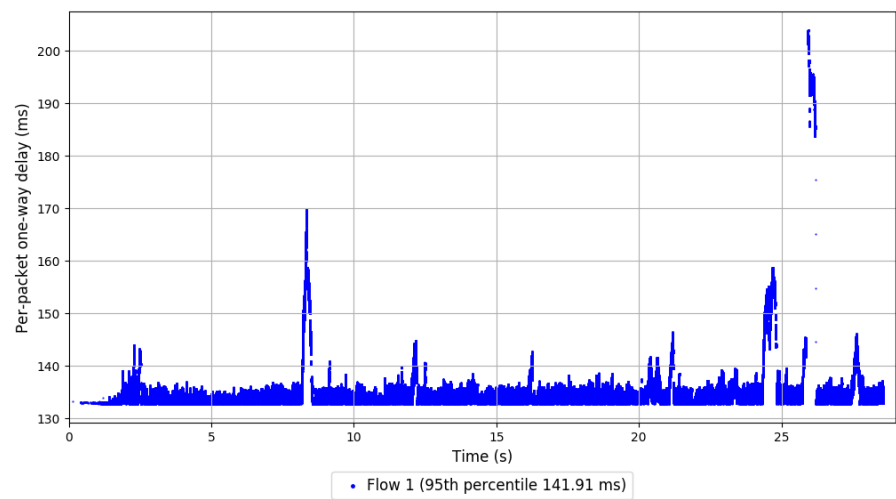
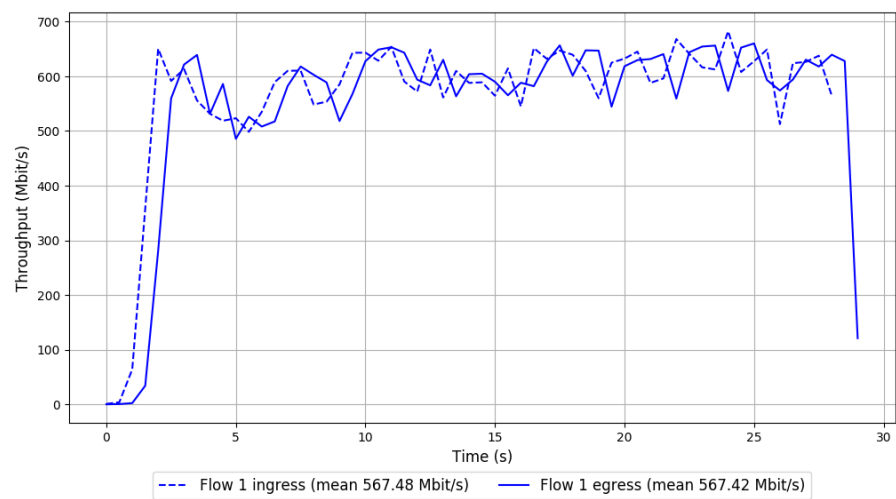
-- Flow 1:

Average throughput: 567.42 Mbit/s

95th percentile per-packet one-way delay: 141.915 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-01-21 17:46:58

End at: 2019-01-21 17:47:28

Local clock offset: -0.176 ms

Remote clock offset: 0.337 ms

# Below is generated by plot.py at 2019-01-21 19:39:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 581.27 Mbit/s

95th percentile per-packet one-way delay: 143.619 ms

Loss rate: 0.00%

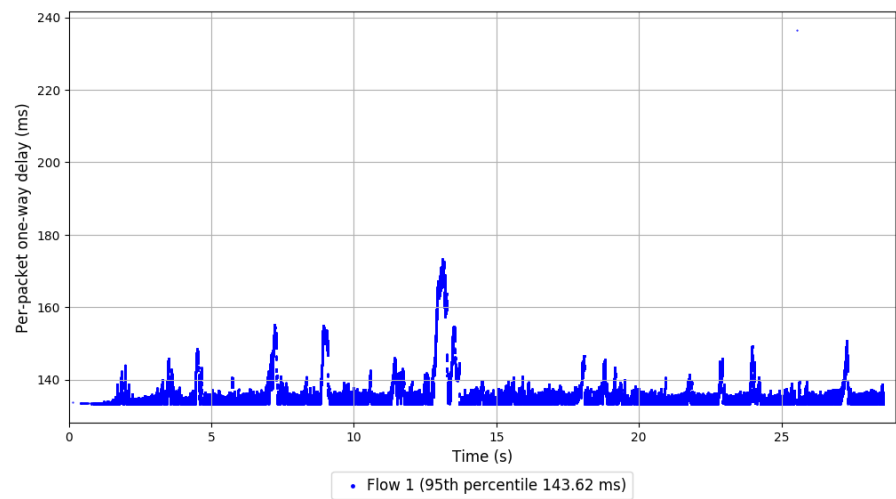
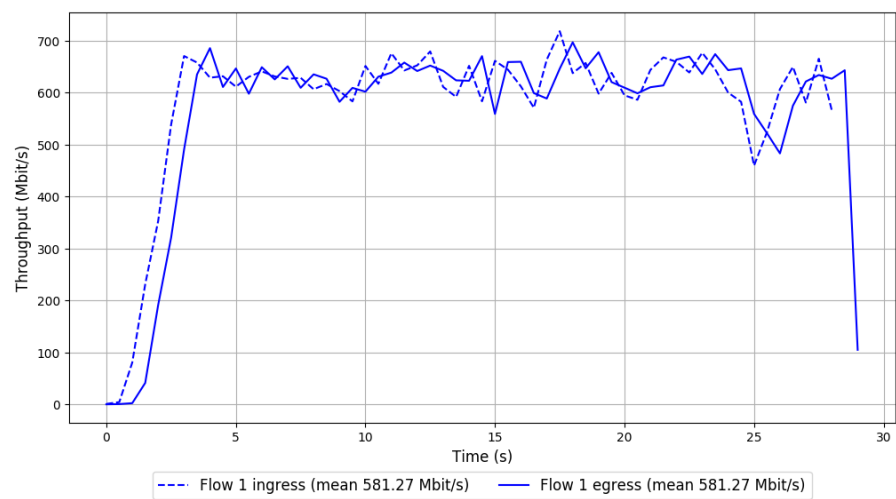
-- Flow 1:

Average throughput: 581.27 Mbit/s

95th percentile per-packet one-way delay: 143.619 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-01-21 18:19:12

End at: 2019-01-21 18:19:42

Local clock offset: -0.236 ms

Remote clock offset: 0.319 ms

# Below is generated by plot.py at 2019-01-21 19:39:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 557.82 Mbit/s

95th percentile per-packet one-way delay: 140.671 ms

Loss rate: 0.00%

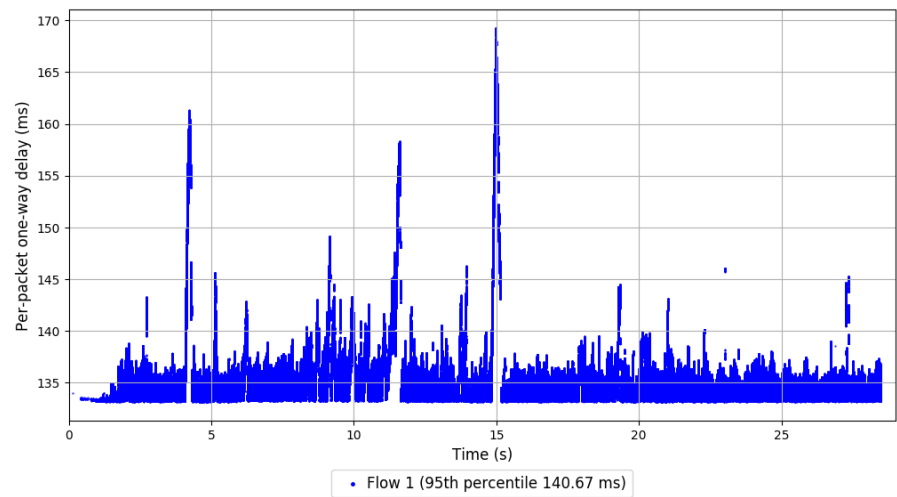
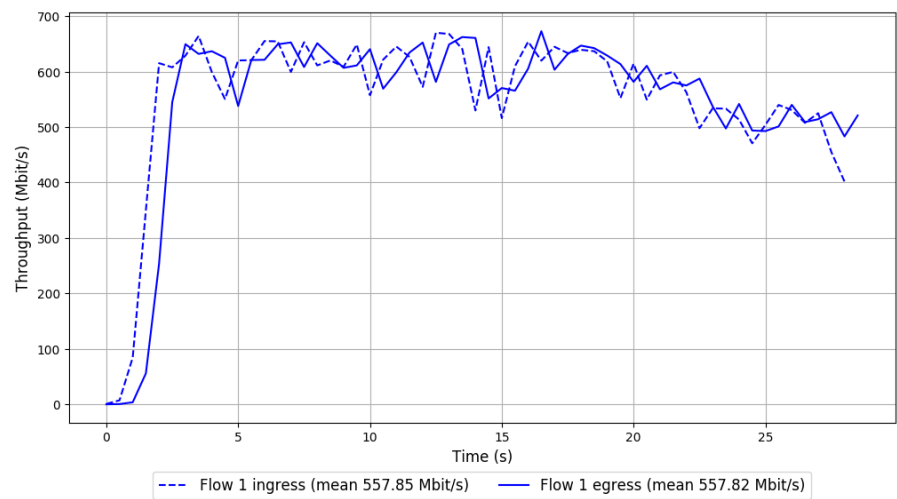
-- Flow 1:

Average throughput: 557.82 Mbit/s

95th percentile per-packet one-way delay: 140.671 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

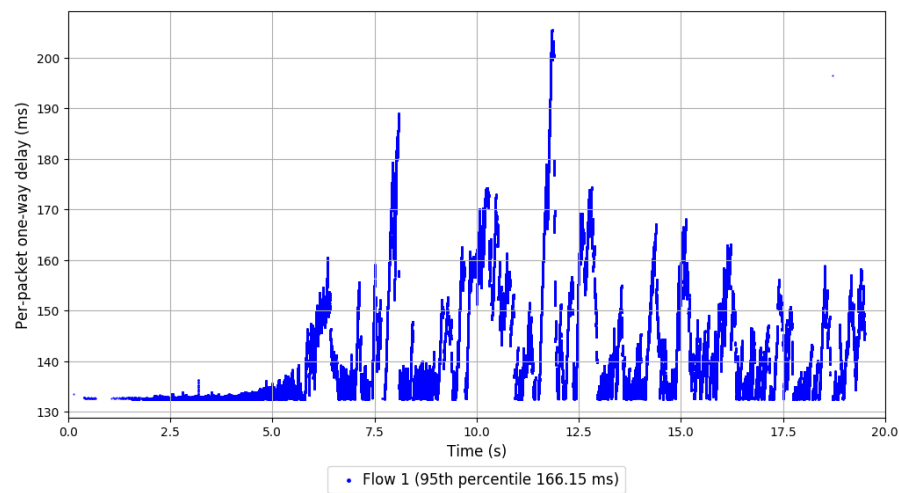
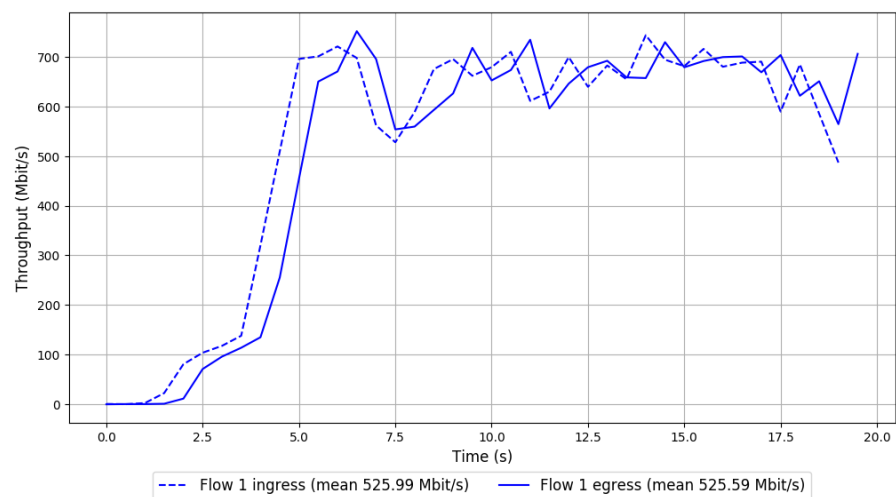
Start at: 2019-01-21 15:59:17

End at: 2019-01-21 15:59:47

Local clock offset: -0.226 ms

Remote clock offset: 0.065 ms

Run 1: Report of Indigo-MusesC5 — Data Link





Run 2: Statistics of Indigo-MusesC5

Start at: 2019-01-21 16:32:06

End at: 2019-01-21 16:32:36

Local clock offset: -0.435 ms

Remote clock offset: 0.048 ms

# Below is generated by plot.py at 2019-01-21 19:41:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 510.21 Mbit/s

95th percentile per-packet one-way delay: 187.323 ms

Loss rate: 0.52%

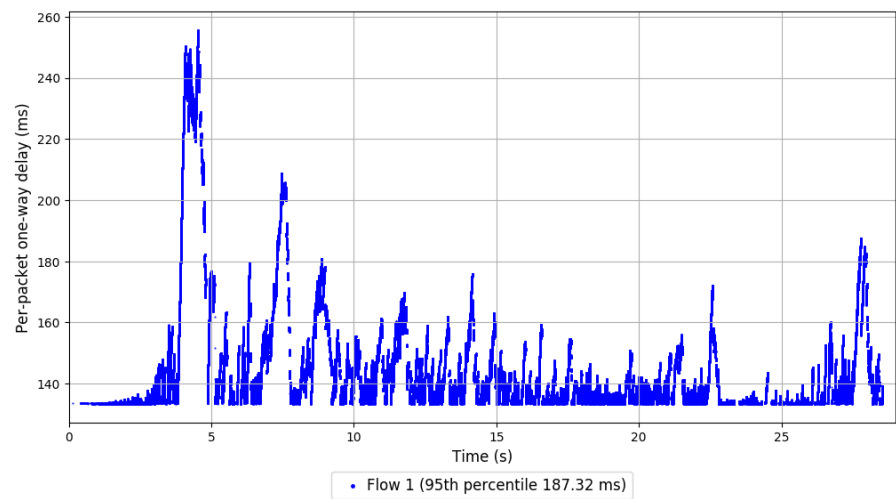
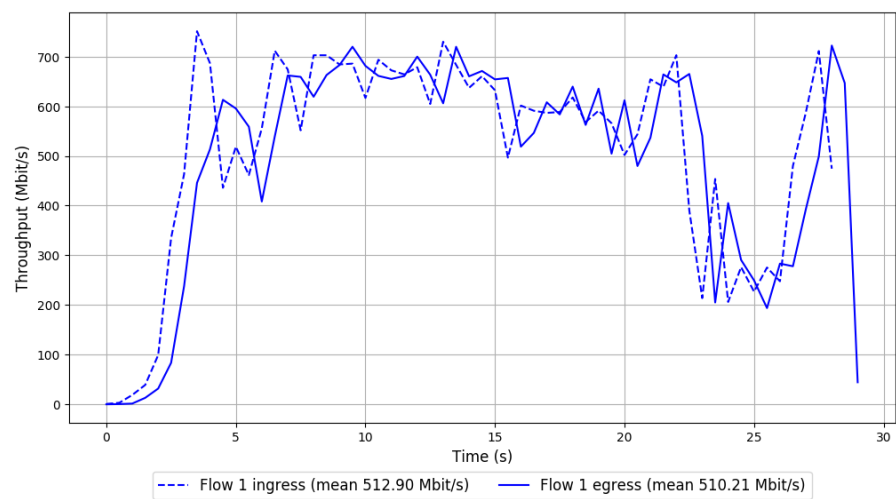
-- Flow 1:

Average throughput: 510.21 Mbit/s

95th percentile per-packet one-way delay: 187.323 ms

Loss rate: 0.52%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-01-21 17:05:36

End at: 2019-01-21 17:06:06

Local clock offset: -0.565 ms

Remote clock offset: 0.425 ms

# Below is generated by plot.py at 2019-01-21 19:46:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 551.71 Mbit/s

95th percentile per-packet one-way delay: 164.865 ms

Loss rate: 0.07%

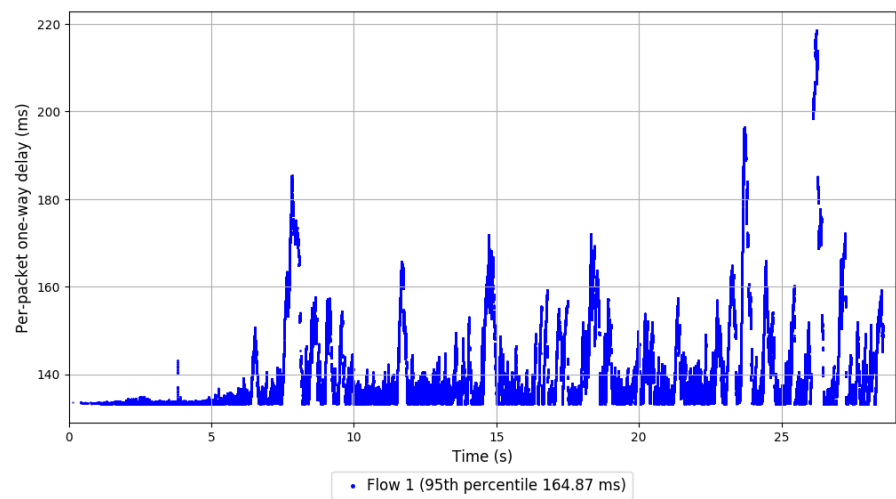
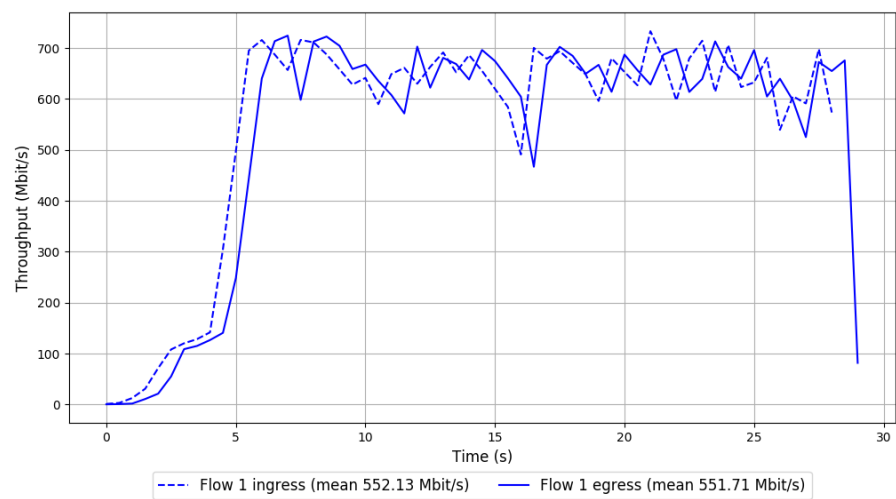
-- Flow 1:

Average throughput: 551.71 Mbit/s

95th percentile per-packet one-way delay: 164.865 ms

Loss rate: 0.07%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-01-21 17:39:08

End at: 2019-01-21 17:39:38

Local clock offset: -0.378 ms

Remote clock offset: 0.188 ms

# Below is generated by plot.py at 2019-01-21 19:46:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 533.52 Mbit/s

95th percentile per-packet one-way delay: 169.284 ms

Loss rate: 0.01%

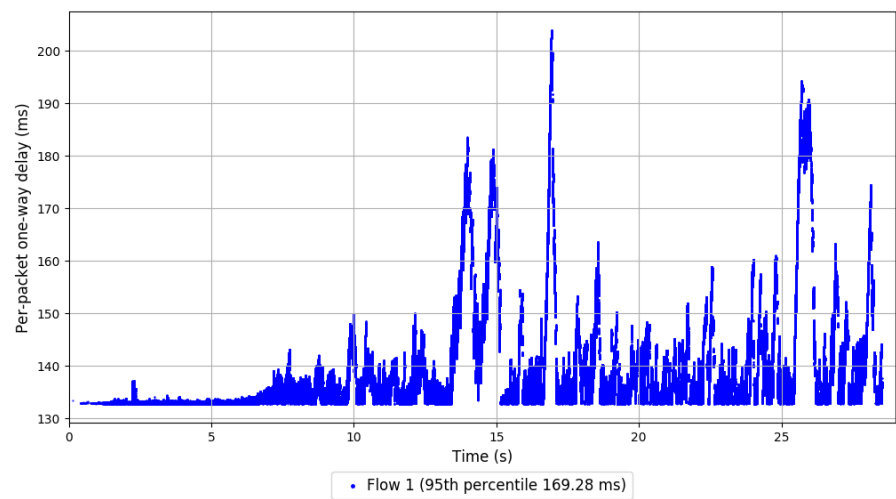
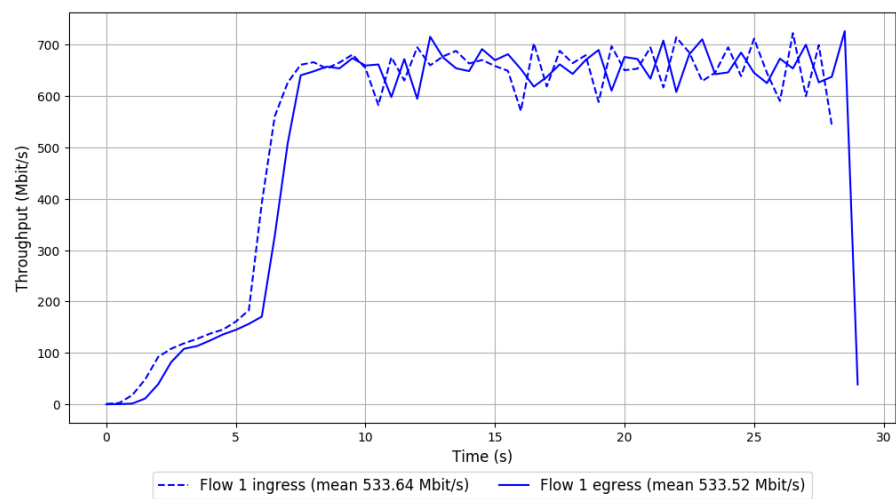
-- Flow 1:

Average throughput: 533.52 Mbit/s

95th percentile per-packet one-way delay: 169.284 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-01-21 18:11:26

End at: 2019-01-21 18:11:56

Local clock offset: -0.213 ms

Remote clock offset: 0.118 ms

# Below is generated by plot.py at 2019-01-21 19:47:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 543.50 Mbit/s

95th percentile per-packet one-way delay: 173.102 ms

Loss rate: 0.12%

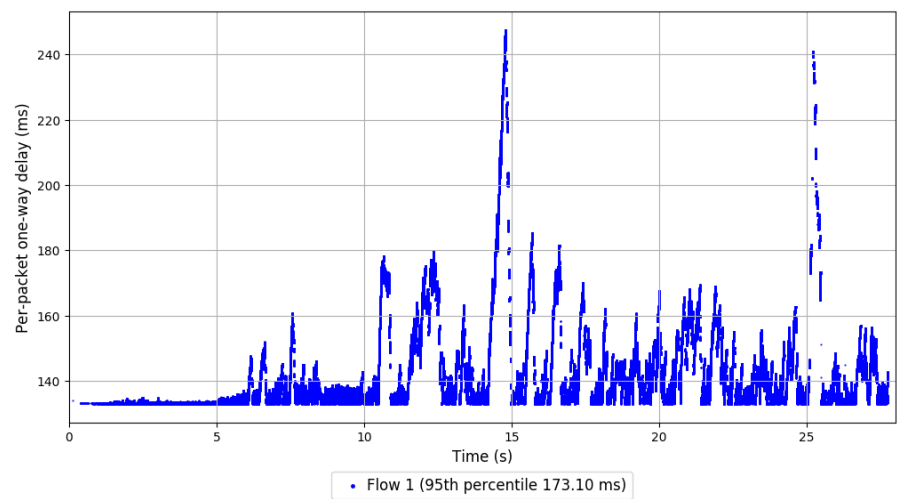
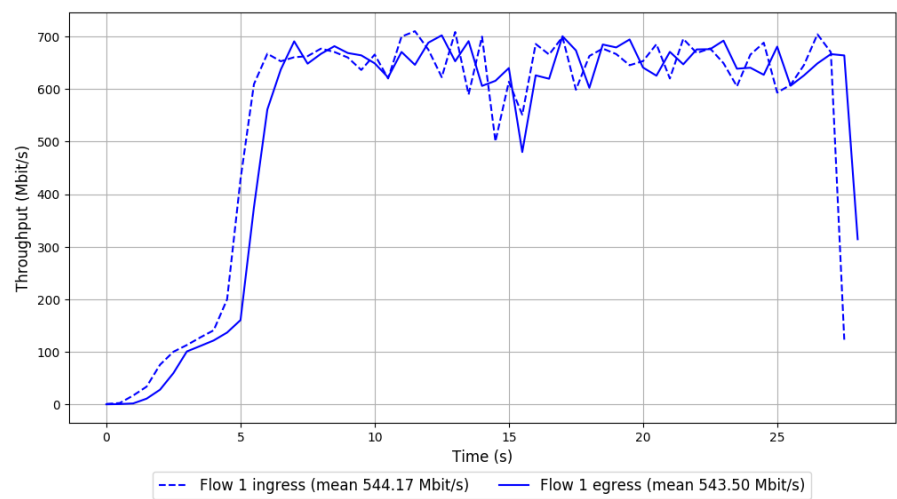
-- Flow 1:

Average throughput: 543.50 Mbit/s

95th percentile per-packet one-way delay: 173.102 ms

Loss rate: 0.12%

Run 5: Report of Indigo-MusesC5 — Data Link





Run 1: Statistics of Indigo-MusesD

Start at: 2019-01-21 16:06:02

End at: 2019-01-21 16:06:32

Local clock offset: -0.527 ms

Remote clock offset: 0.036 ms

# Below is generated by plot.py at 2019-01-21 19:47:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 17.70 Mbit/s

95th percentile per-packet one-way delay: 133.565 ms

Loss rate: 0.00%

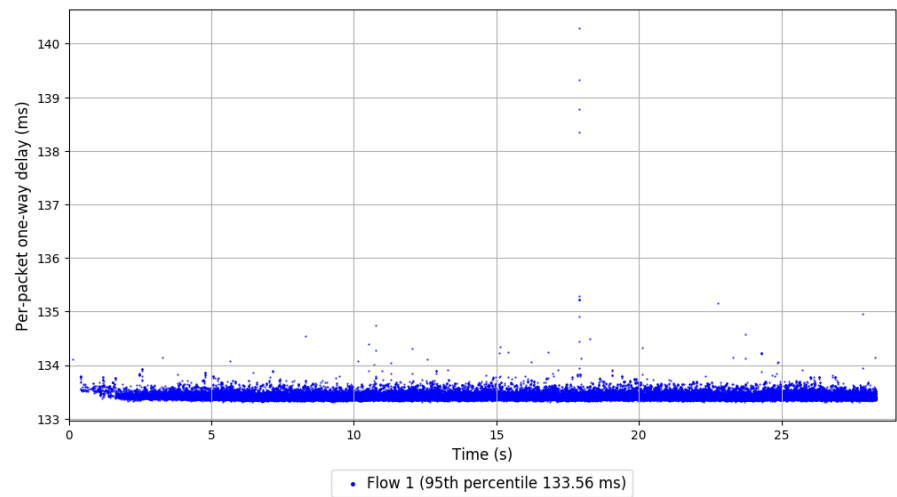
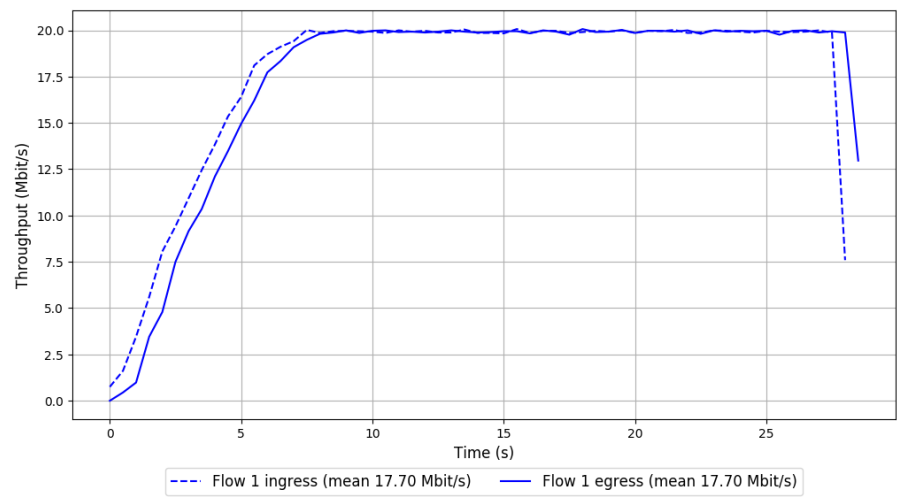
-- Flow 1:

Average throughput: 17.70 Mbit/s

95th percentile per-packet one-way delay: 133.565 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-01-21 16:38:59

End at: 2019-01-21 16:39:29

Local clock offset: 0.161 ms

Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2019-01-21 19:47:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 226.38 Mbit/s

95th percentile per-packet one-way delay: 151.774 ms

Loss rate: 0.01%

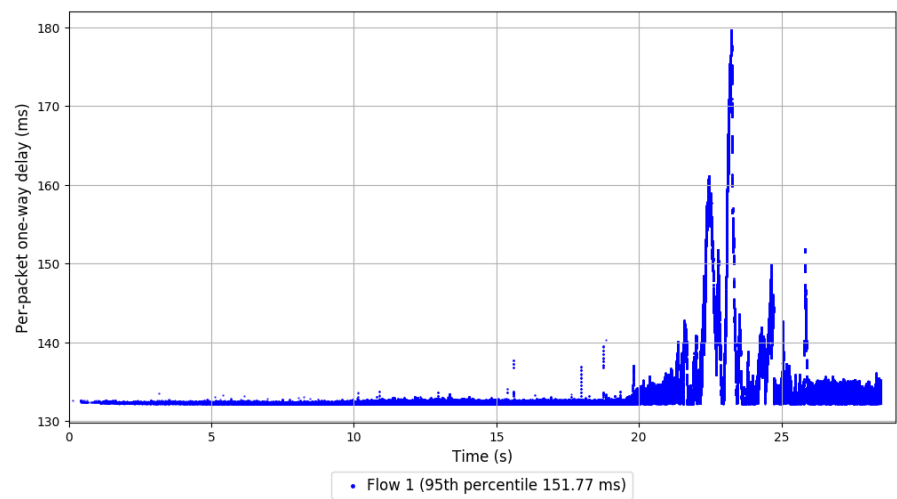
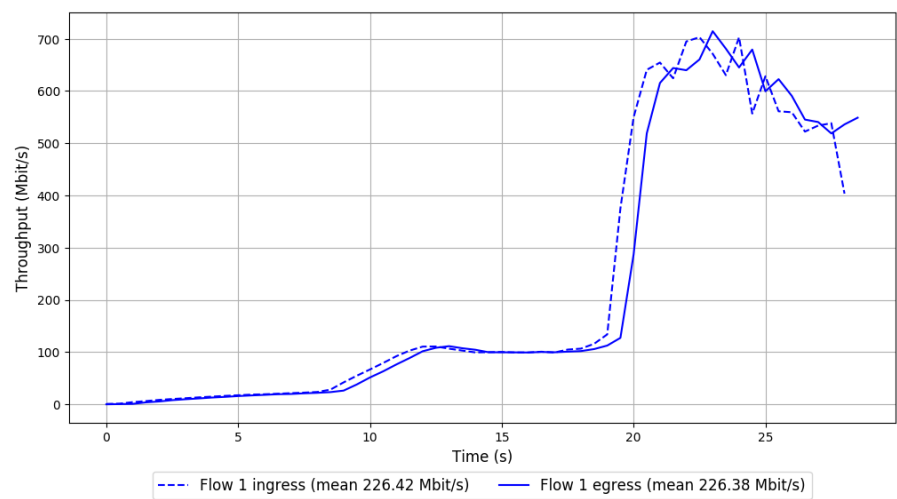
-- Flow 1:

Average throughput: 226.38 Mbit/s

95th percentile per-packet one-way delay: 151.774 ms

Loss rate: 0.01%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-01-21 17:12:39

End at: 2019-01-21 17:13:09

Local clock offset: -0.442 ms

Remote clock offset: 0.054 ms

# Below is generated by plot.py at 2019-01-21 19:47:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 16.11 Mbit/s

95th percentile per-packet one-way delay: 133.012 ms

Loss rate: 0.00%

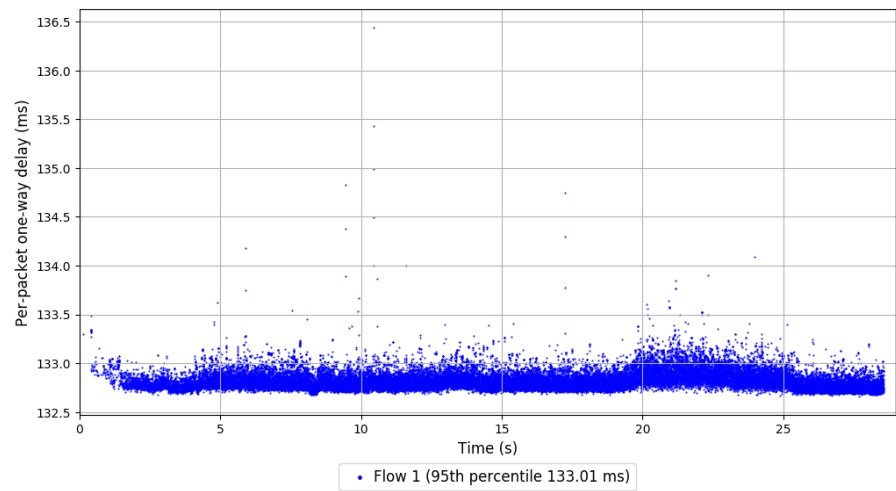
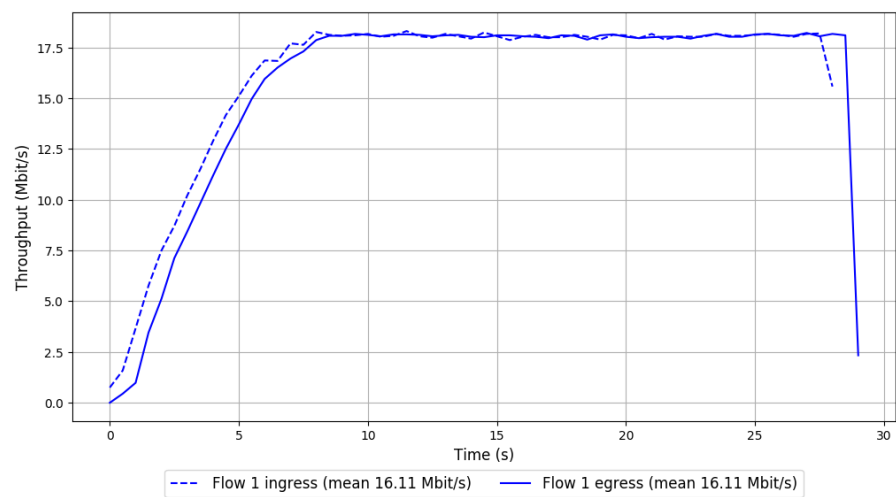
-- Flow 1:

Average throughput: 16.11 Mbit/s

95th percentile per-packet one-way delay: 133.012 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-01-21 17:45:45

End at: 2019-01-21 17:46:15

Local clock offset: 0.006 ms

Remote clock offset: -0.359 ms

# Below is generated by plot.py at 2019-01-21 19:47:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 17.00 Mbit/s

95th percentile per-packet one-way delay: 132.664 ms

Loss rate: 0.00%

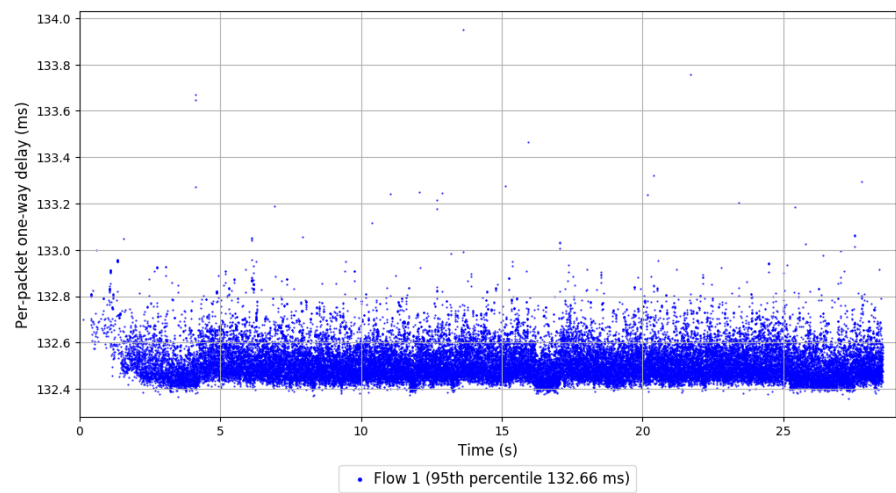
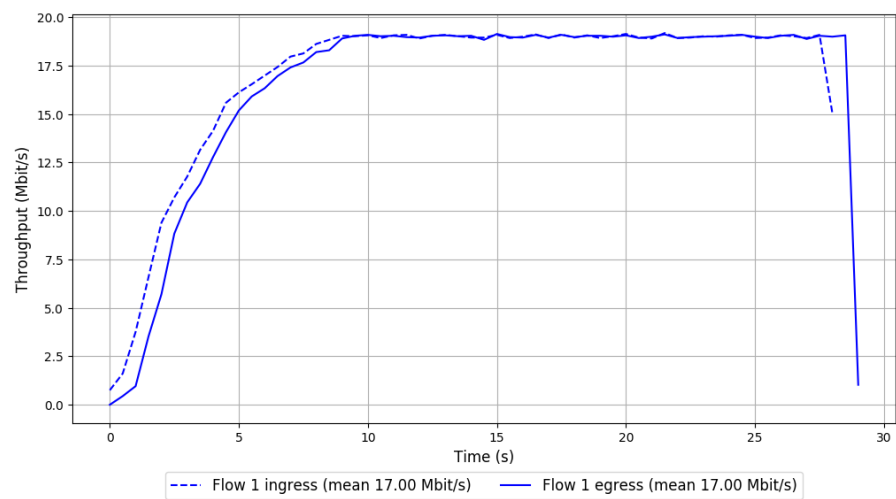
-- Flow 1:

Average throughput: 17.00 Mbit/s

95th percentile per-packet one-way delay: 132.664 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesD — Data Link





Run 5: Statistics of Indigo-MusesD

Start at: 2019-01-21 18:17:59

End at: 2019-01-21 18:18:29

Local clock offset: -0.171 ms

Remote clock offset: 0.07 ms

# Below is generated by plot.py at 2019-01-21 19:47:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 15.57 Mbit/s

95th percentile per-packet one-way delay: 133.012 ms

Loss rate: 0.00%

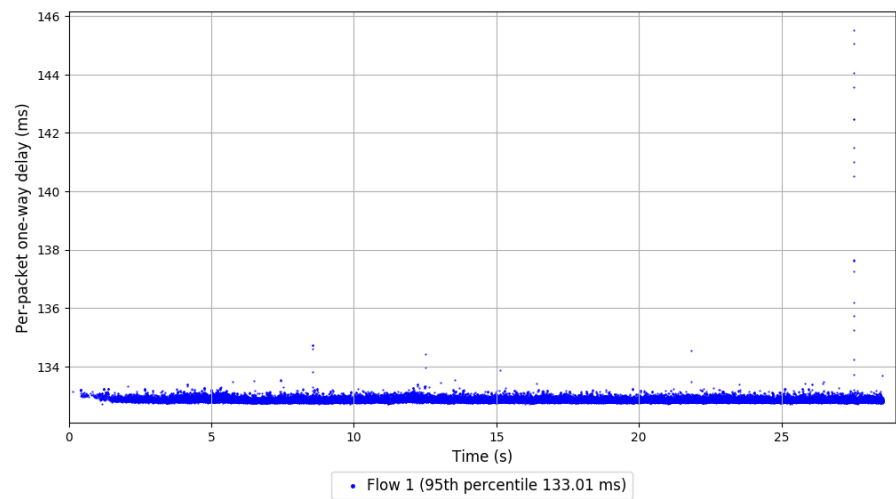
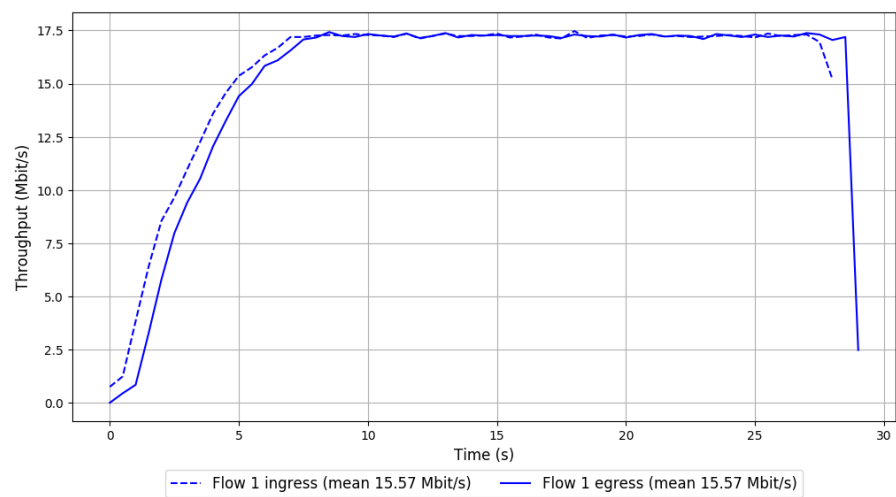
-- Flow 1:

Average throughput: 15.57 Mbit/s

95th percentile per-packet one-way delay: 133.012 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-01-21 16:02:43

End at: 2019-01-21 16:03:13

Local clock offset: 0.011 ms

Remote clock offset: 0.083 ms

# Below is generated by plot.py at 2019-01-21 19:53:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 639.14 Mbit/s

95th percentile per-packet one-way delay: 180.387 ms

Loss rate: 0.07%

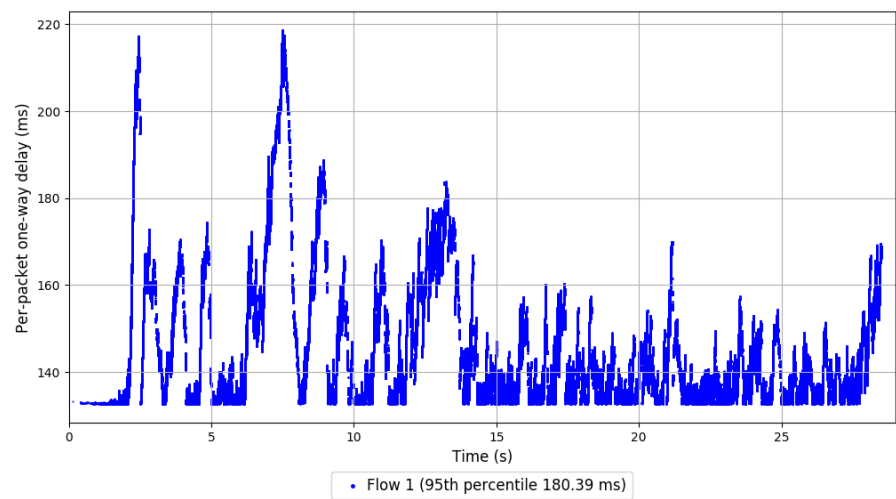
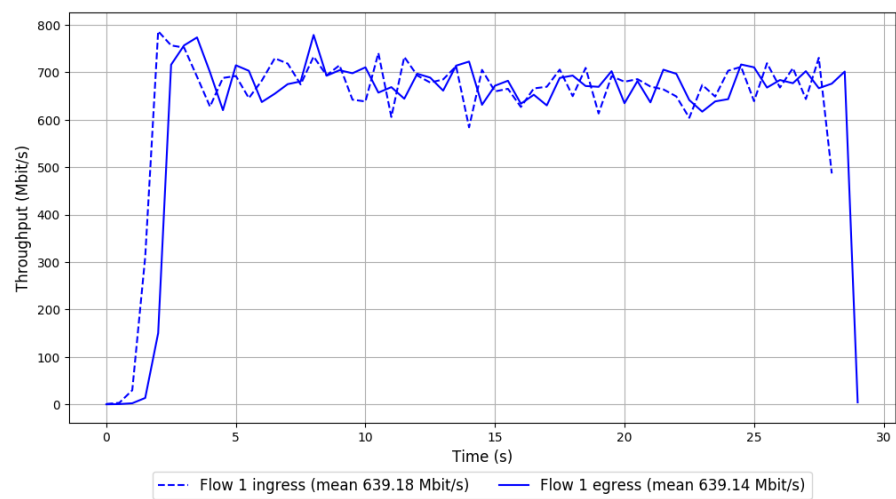
-- Flow 1:

Average throughput: 639.14 Mbit/s

95th percentile per-packet one-way delay: 180.387 ms

Loss rate: 0.07%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-01-21 16:35:32

End at: 2019-01-21 16:36:02

Local clock offset: 0.437 ms

Remote clock offset: 0.122 ms

# Below is generated by plot.py at 2019-01-21 19:54:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 622.90 Mbit/s

95th percentile per-packet one-way delay: 169.691 ms

Loss rate: 0.00%

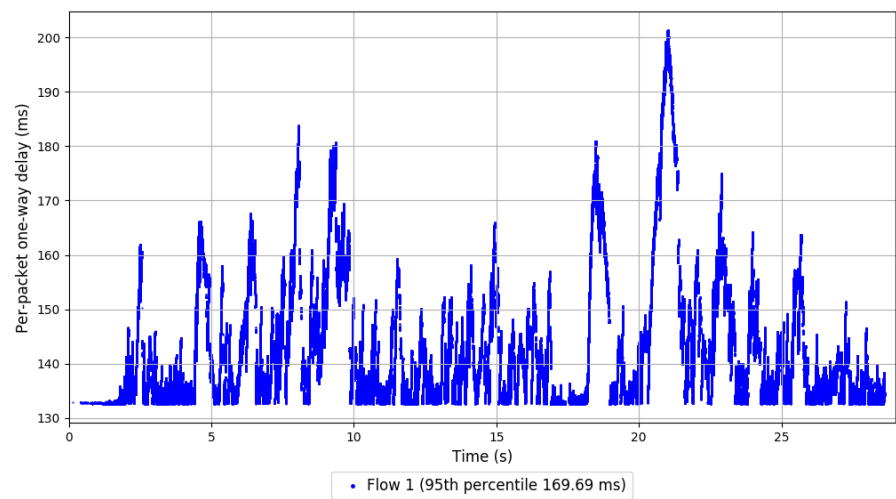
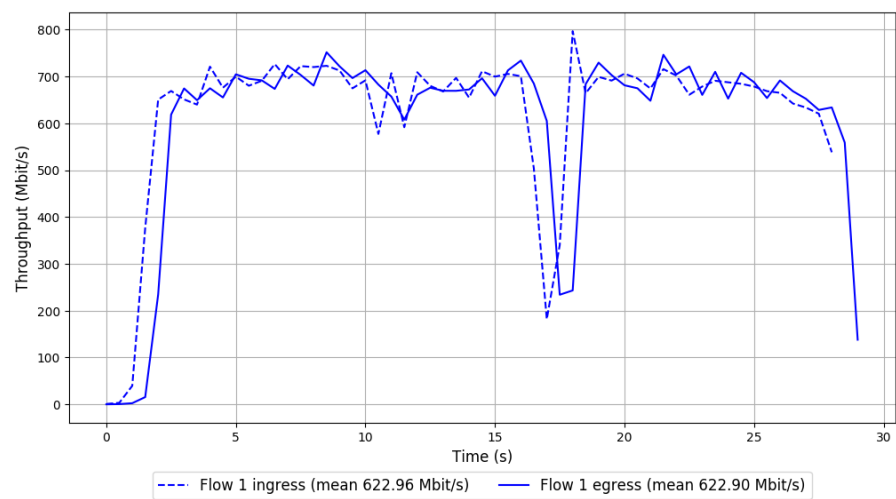
-- Flow 1:

Average throughput: 622.90 Mbit/s

95th percentile per-packet one-way delay: 169.691 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-01-21 17:09:19

End at: 2019-01-21 17:09:49

Local clock offset: -0.409 ms

Remote clock offset: 0.041 ms

# Below is generated by plot.py at 2019-01-21 19:54:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 634.26 Mbit/s

95th percentile per-packet one-way delay: 172.331 ms

Loss rate: 0.02%

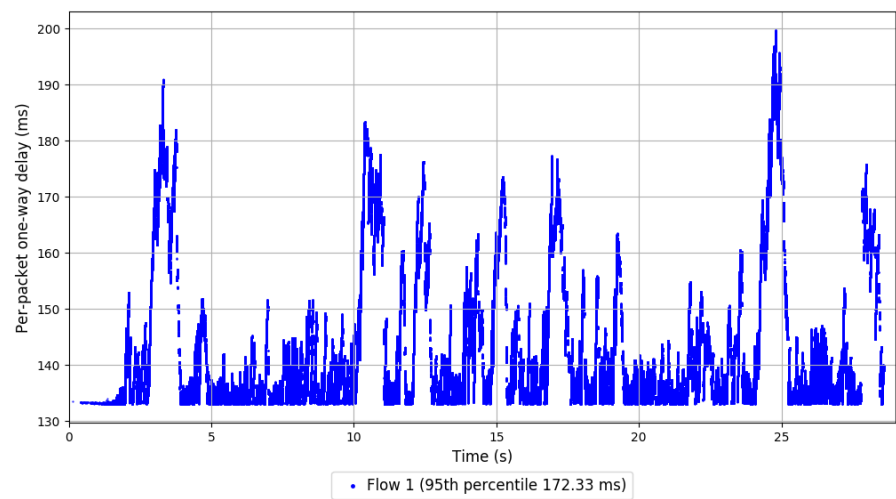
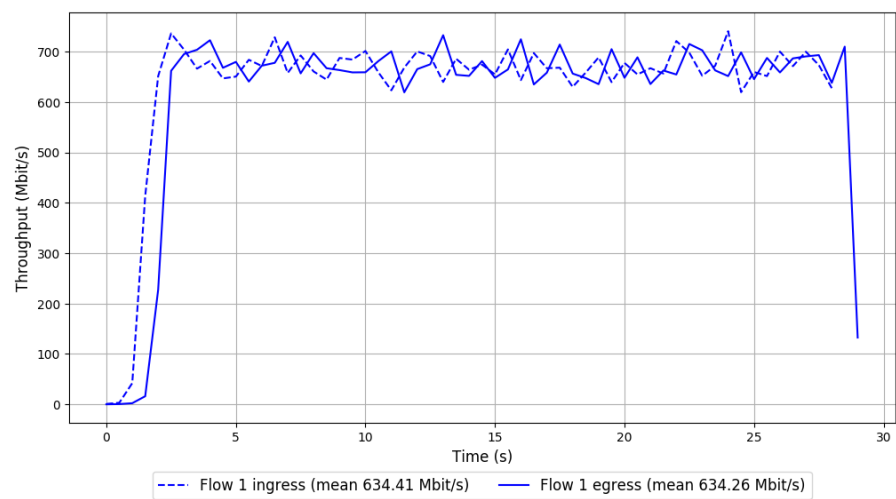
-- Flow 1:

Average throughput: 634.26 Mbit/s

95th percentile per-packet one-way delay: 172.331 ms

Loss rate: 0.02%

Run 3: Report of Indigo-MusesT — Data Link



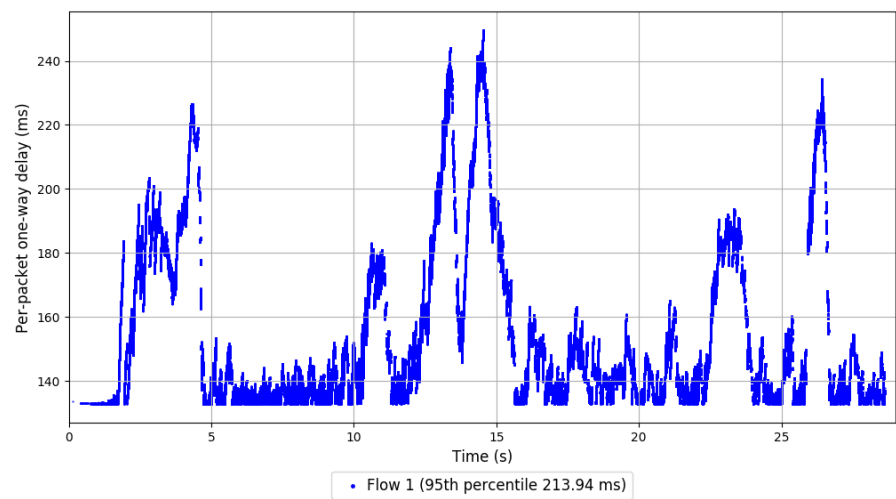
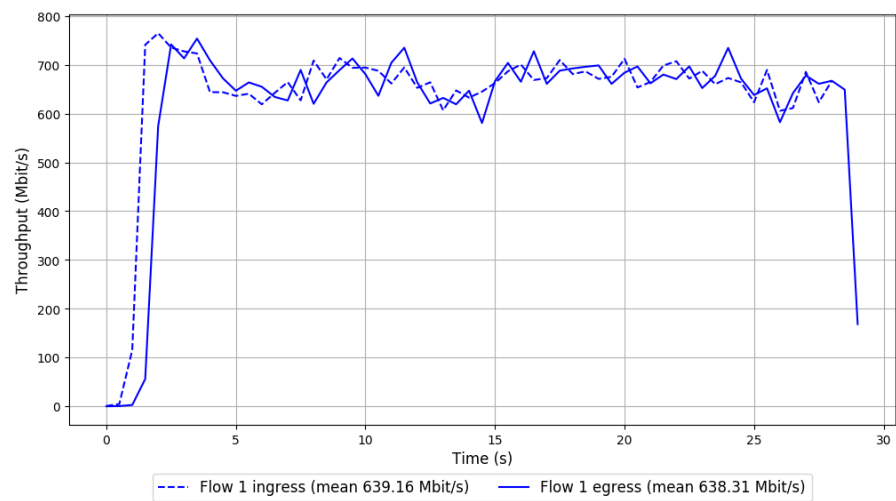


Run 4: Statistics of Indigo-MusesT

Start at: 2019-01-21 17:42:30  
End at: 2019-01-21 17:43:00  
Local clock offset: -0.216 ms  
Remote clock offset: -0.375 ms

# Below is generated by plot.py at 2019-01-21 19:56:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 638.31 Mbit/s  
95th percentile per-packet one-way delay: 213.935 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 638.31 Mbit/s  
95th percentile per-packet one-way delay: 213.935 ms  
Loss rate: 0.13%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-01-21 18:14:45

End at: 2019-01-21 18:15:15

Local clock offset: -0.253 ms

Remote clock offset: 0.253 ms

# Below is generated by plot.py at 2019-01-21 19:56:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 607.86 Mbit/s

95th percentile per-packet one-way delay: 188.563 ms

Loss rate: 0.24%

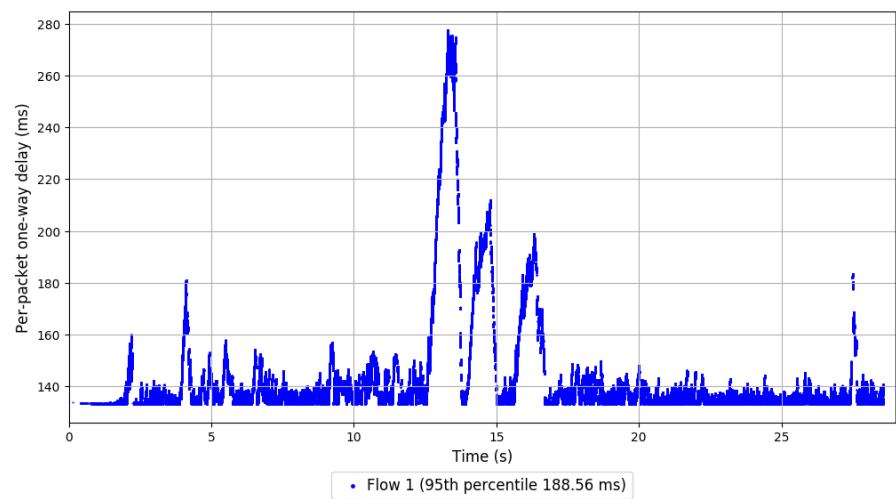
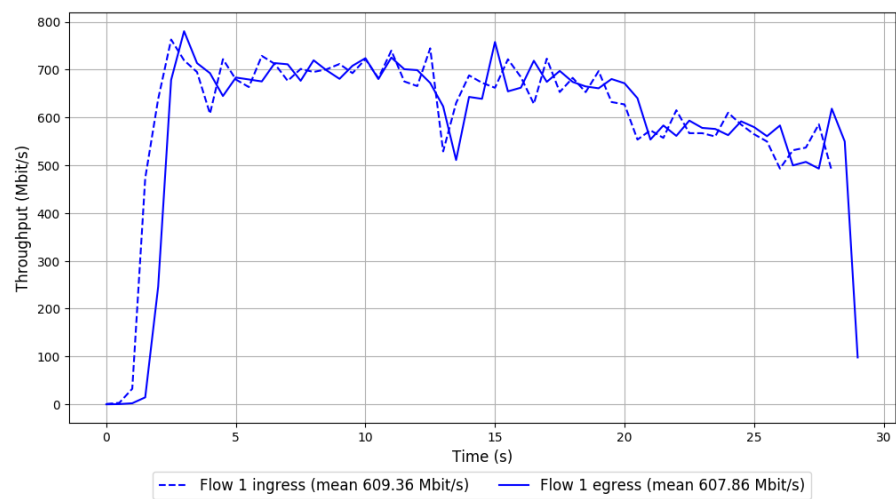
-- Flow 1:

Average throughput: 607.86 Mbit/s

95th percentile per-packet one-way delay: 188.563 ms

Loss rate: 0.24%

Run 5: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2019-01-21 15:40:47

End at: 2019-01-21 15:41:17

Local clock offset: -0.096 ms

Remote clock offset: 0.034 ms

# Below is generated by plot.py at 2019-01-21 19:56:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.28 Mbit/s

95th percentile per-packet one-way delay: 134.199 ms

Loss rate: 0.00%

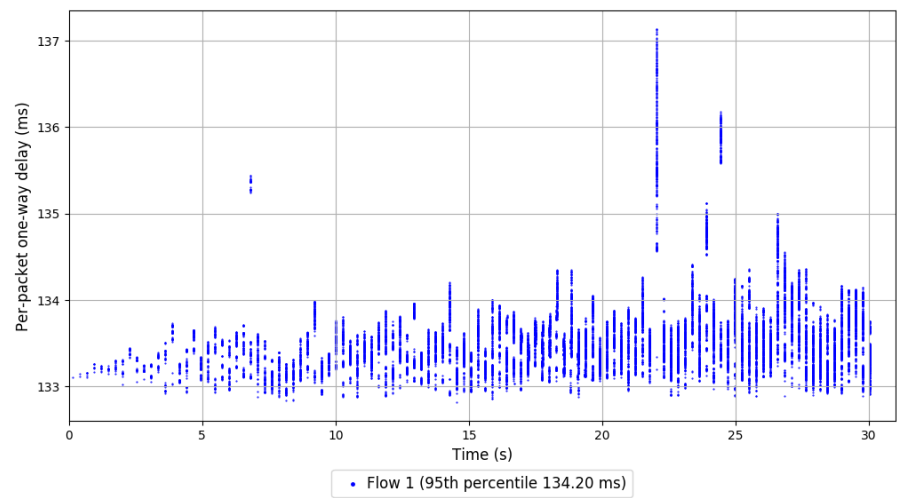
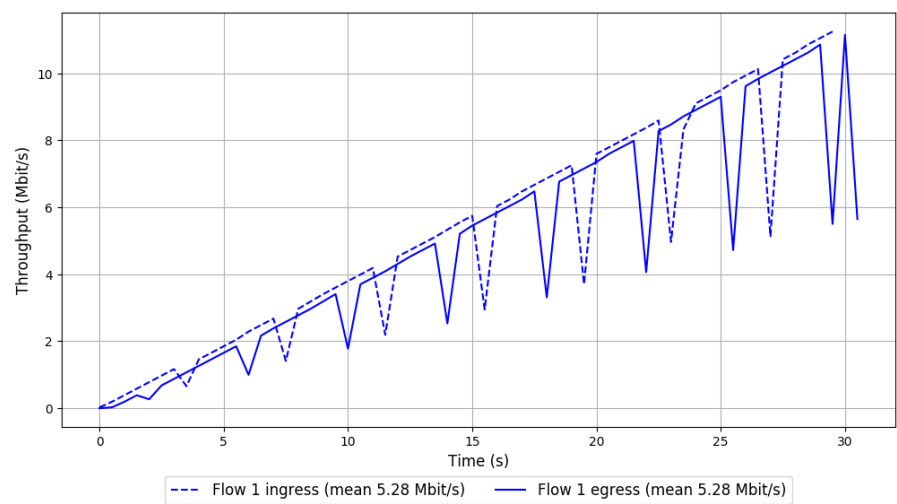
-- Flow 1:

Average throughput: 5.28 Mbit/s

95th percentile per-packet one-way delay: 134.199 ms

Loss rate: 0.00%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-01-21 16:14:10

End at: 2019-01-21 16:14:40

Local clock offset: -0.035 ms

Remote clock offset: 0.046 ms

# Below is generated by plot.py at 2019-01-21 19:56:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.28 Mbit/s

95th percentile per-packet one-way delay: 134.339 ms

Loss rate: 0.00%

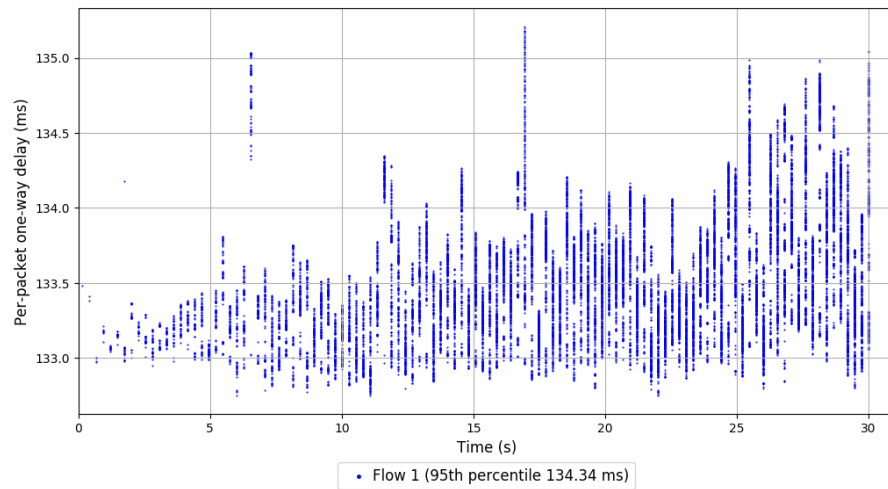
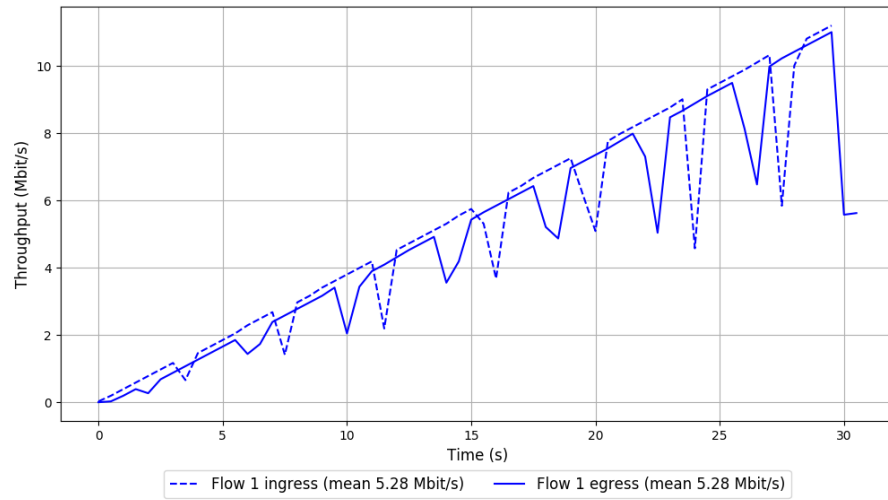
-- Flow 1:

Average throughput: 5.28 Mbit/s

95th percentile per-packet one-way delay: 134.339 ms

Loss rate: 0.00%

## Run 2: Report of LEDBAT — Data Link





Run 3: Statistics of LEDBAT

Start at: 2019-01-21 16:47:09

End at: 2019-01-21 16:47:39

Local clock offset: -0.083 ms

Remote clock offset: 0.4 ms

# Below is generated by plot.py at 2019-01-21 19:56:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.29 Mbit/s

95th percentile per-packet one-way delay: 134.480 ms

Loss rate: 0.00%

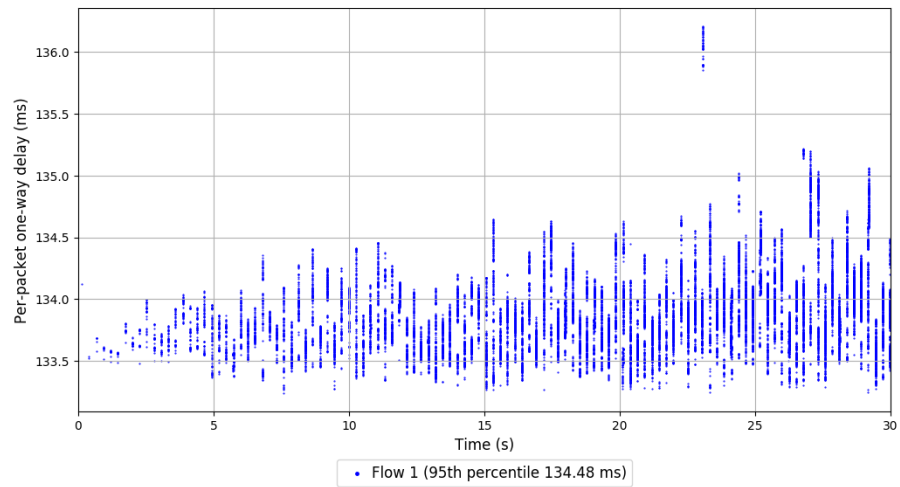
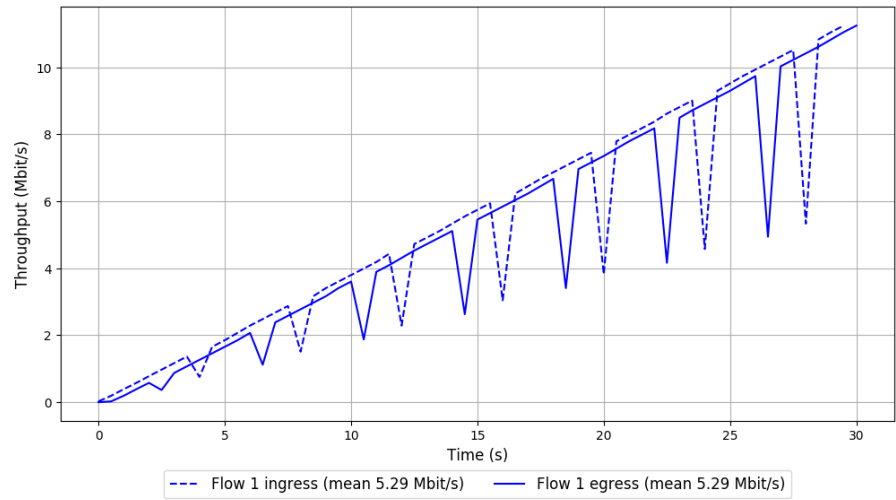
-- Flow 1:

Average throughput: 5.29 Mbit/s

95th percentile per-packet one-way delay: 134.480 ms

Loss rate: 0.00%

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



Run 4: Statistics of LEDBAT

Start at: 2019-01-21 17:20:04

End at: 2019-01-21 17:20:34

Local clock offset: 0.268 ms

Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2019-01-21 19:56:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.28 Mbit/s

95th percentile per-packet one-way delay: 133.623 ms

Loss rate: 0.00%

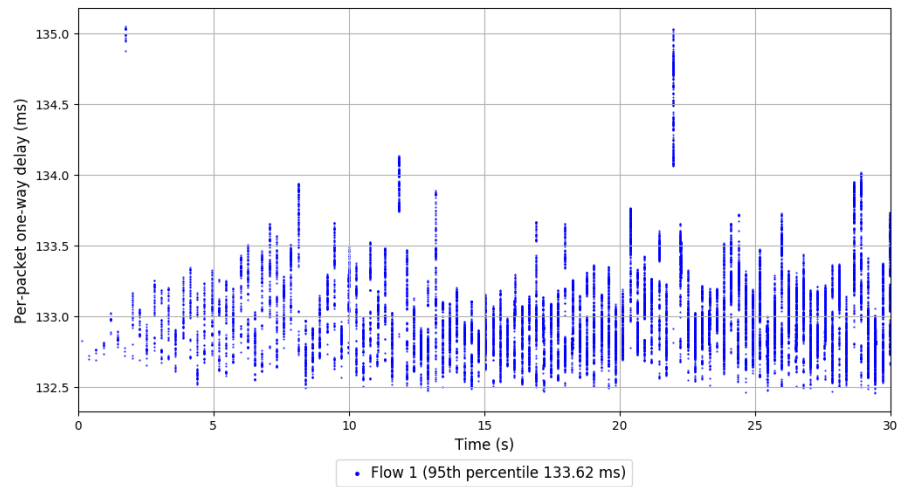
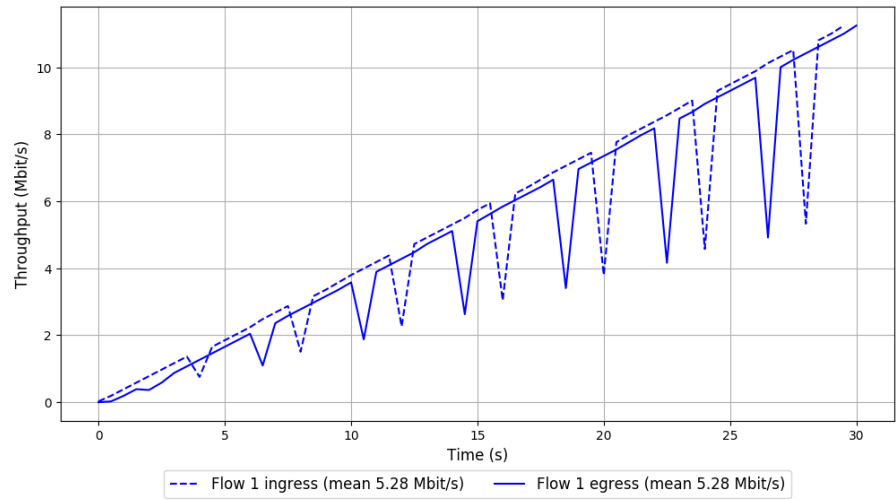
-- Flow 1:

Average throughput: 5.28 Mbit/s

95th percentile per-packet one-way delay: 133.623 ms

Loss rate: 0.00%

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



Run 5: Statistics of LEDBAT

Start at: 2019-01-21 17:53:18

End at: 2019-01-21 17:53:48

Local clock offset: -0.22 ms

Remote clock offset: 0.0 ms

# Below is generated by plot.py at 2019-01-21 19:56:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.29 Mbit/s

95th percentile per-packet one-way delay: 134.057 ms

Loss rate: 0.00%

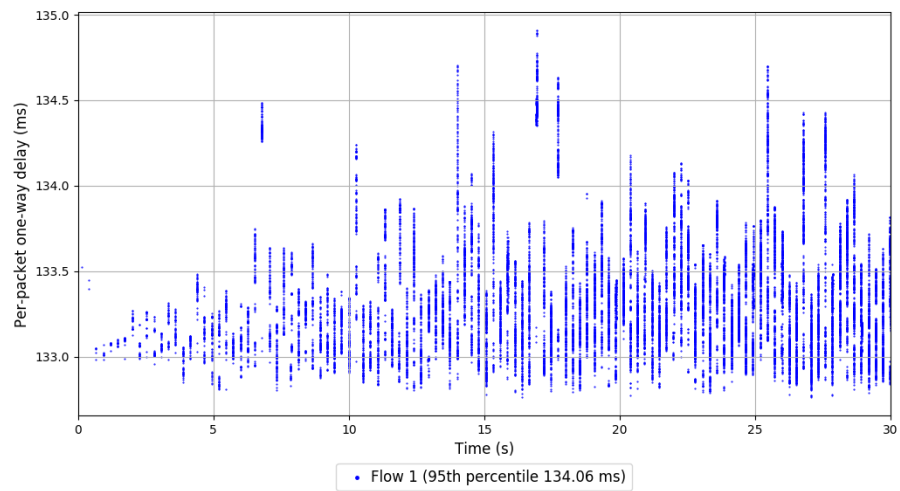
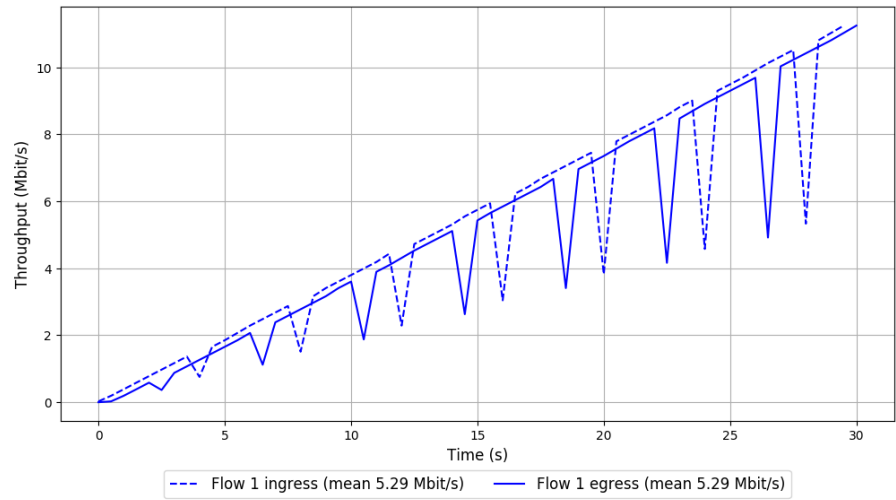
-- Flow 1:

Average throughput: 5.29 Mbit/s

95th percentile per-packet one-way delay: 134.057 ms

Loss rate: 0.00%

## Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-01-21 15:57:31

End at: 2019-01-21 15:58:01

Local clock offset: 0.387 ms

Remote clock offset: 0.428 ms

# Below is generated by plot.py at 2019-01-21 20:06:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 374.68 Mbit/s

95th percentile per-packet one-way delay: 244.262 ms

Loss rate: 4.70%

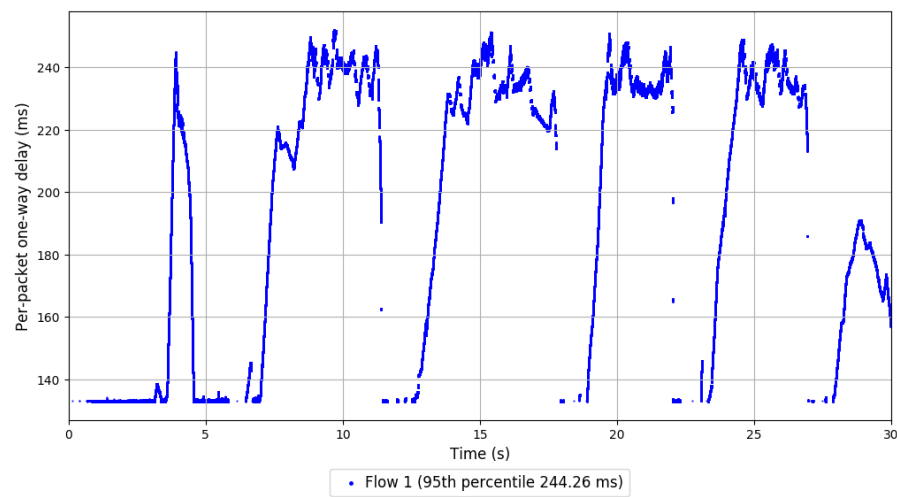
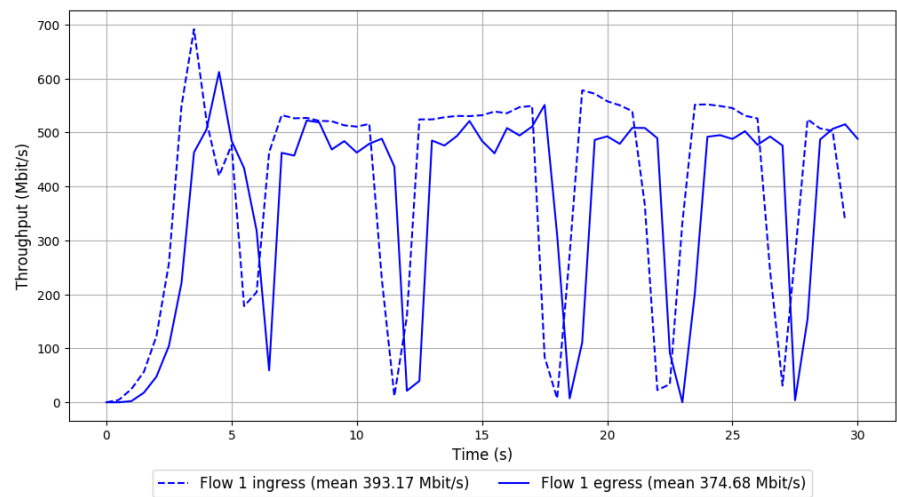
-- Flow 1:

Average throughput: 374.68 Mbit/s

95th percentile per-packet one-way delay: 244.262 ms

Loss rate: 4.70%

Run 1: Report of PCC-Allegro — Data Link





Run 2: Statistics of PCC-Allegro

Start at: 2019-01-21 16:30:21

End at: 2019-01-21 16:30:51

Local clock offset: -0.294 ms

Remote clock offset: 0.096 ms

# Below is generated by plot.py at 2019-01-21 20:10:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 448.80 Mbit/s

95th percentile per-packet one-way delay: 233.017 ms

Loss rate: 1.10%

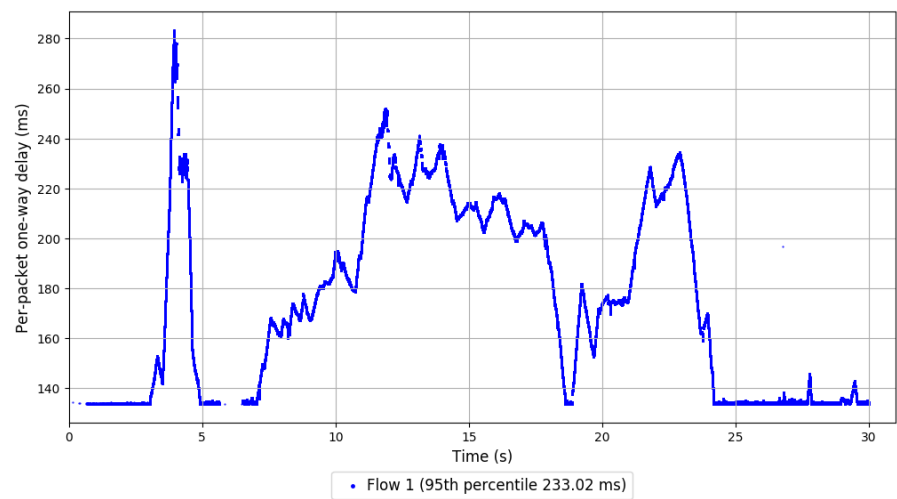
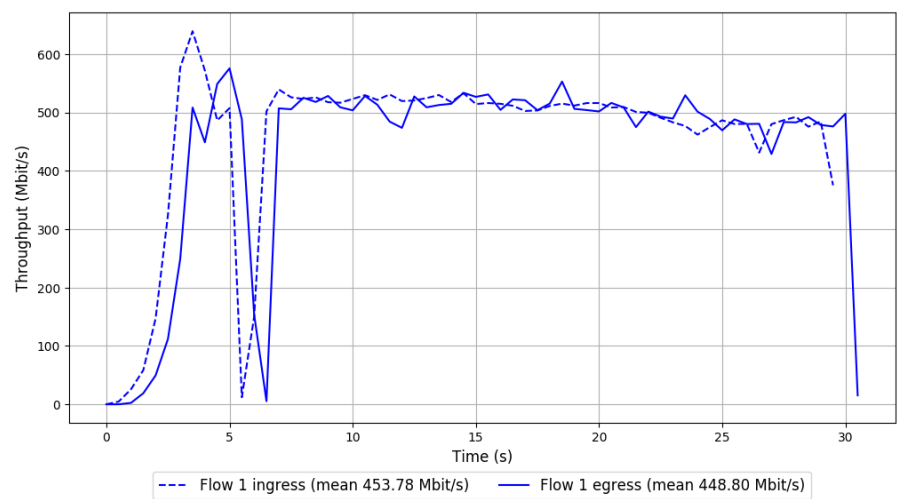
-- Flow 1:

Average throughput: 448.80 Mbit/s

95th percentile per-packet one-way delay: 233.017 ms

Loss rate: 1.10%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-01-21 17:03:46

End at: 2019-01-21 17:04:16

Local clock offset: -0.539 ms

Remote clock offset: 0.392 ms

# Below is generated by plot.py at 2019-01-21 20:10:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 311.15 Mbit/s

95th percentile per-packet one-way delay: 231.826 ms

Loss rate: 1.28%

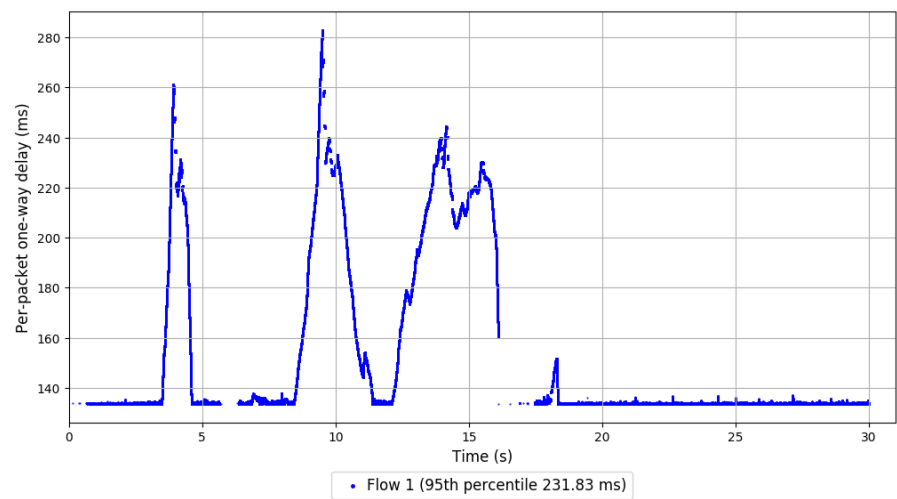
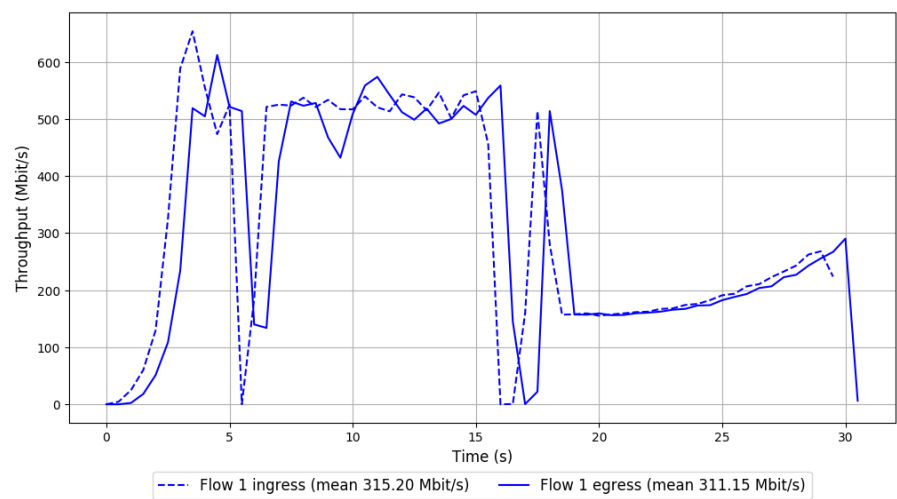
-- Flow 1:

Average throughput: 311.15 Mbit/s

95th percentile per-packet one-way delay: 231.826 ms

Loss rate: 1.28%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-01-21 17:37:17

End at: 2019-01-21 17:37:47

Local clock offset: -0.332 ms

Remote clock offset: 0.144 ms

# Below is generated by plot.py at 2019-01-21 20:11:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 369.95 Mbit/s

95th percentile per-packet one-way delay: 197.506 ms

Loss rate: 0.95%

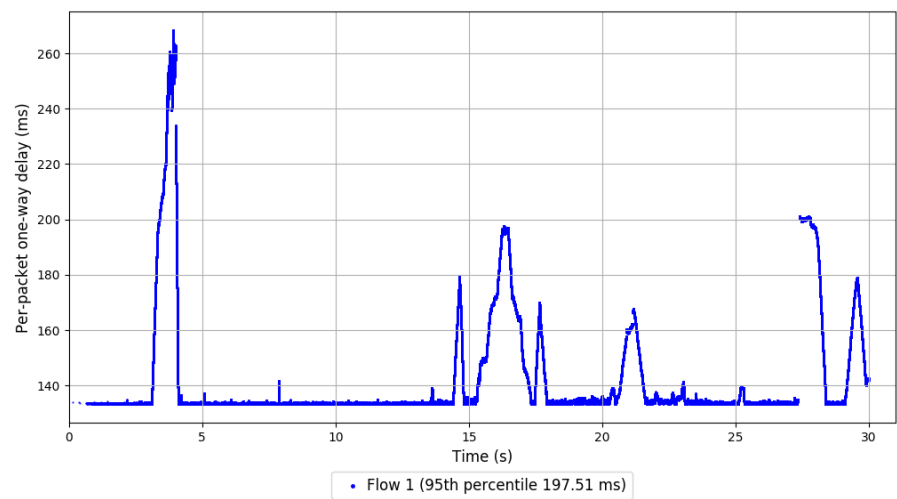
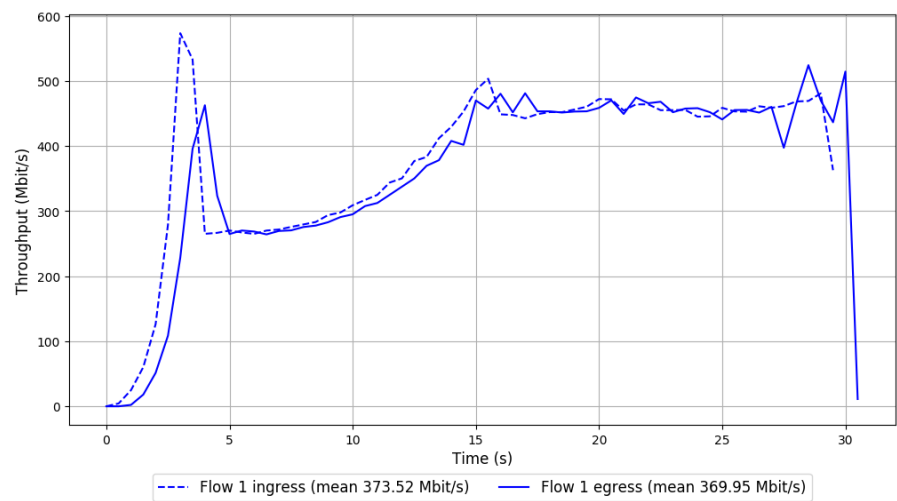
-- Flow 1:

Average throughput: 369.95 Mbit/s

95th percentile per-packet one-way delay: 197.506 ms

Loss rate: 0.95%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-01-21 18:09:44

End at: 2019-01-21 18:10:14

Local clock offset: -0.206 ms

Remote clock offset: 0.079 ms

# Below is generated by plot.py at 2019-01-21 20:11:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 340.68 Mbit/s

95th percentile per-packet one-way delay: 241.214 ms

Loss rate: 2.54%

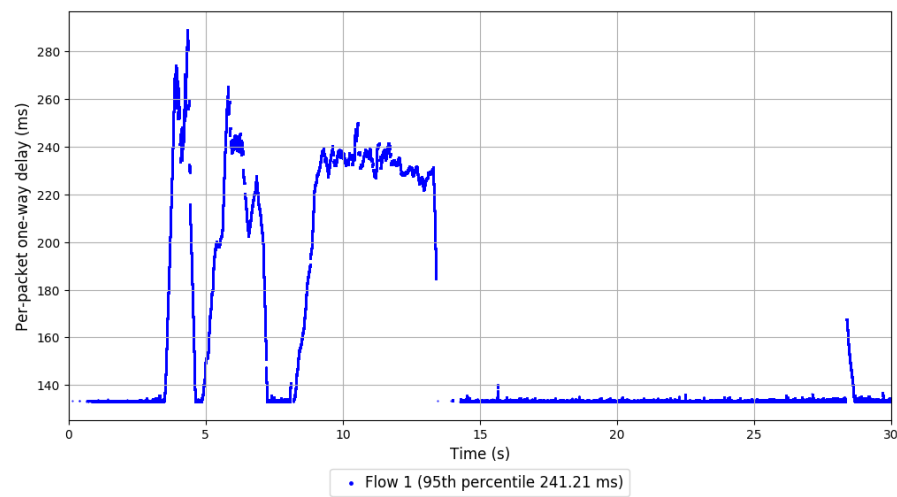
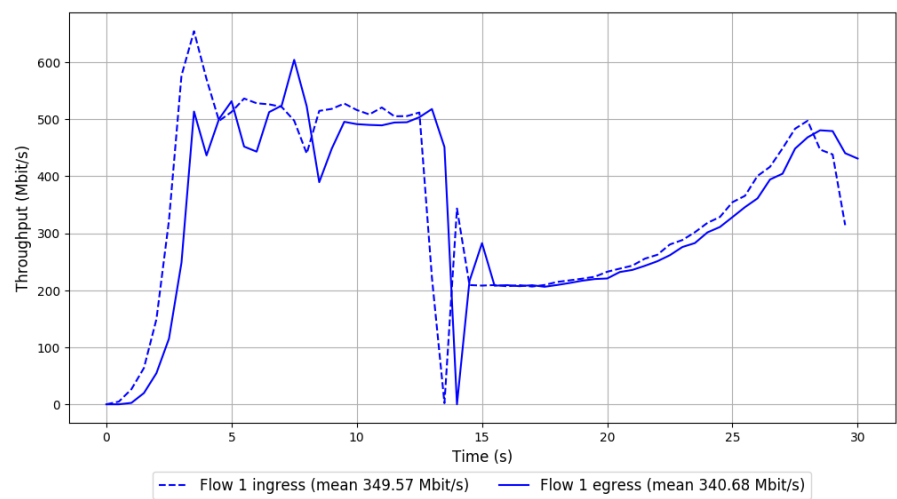
-- Flow 1:

Average throughput: 340.68 Mbit/s

95th percentile per-packet one-way delay: 241.214 ms

Loss rate: 2.54%

Run 5: Report of PCC-Allegro — Data Link



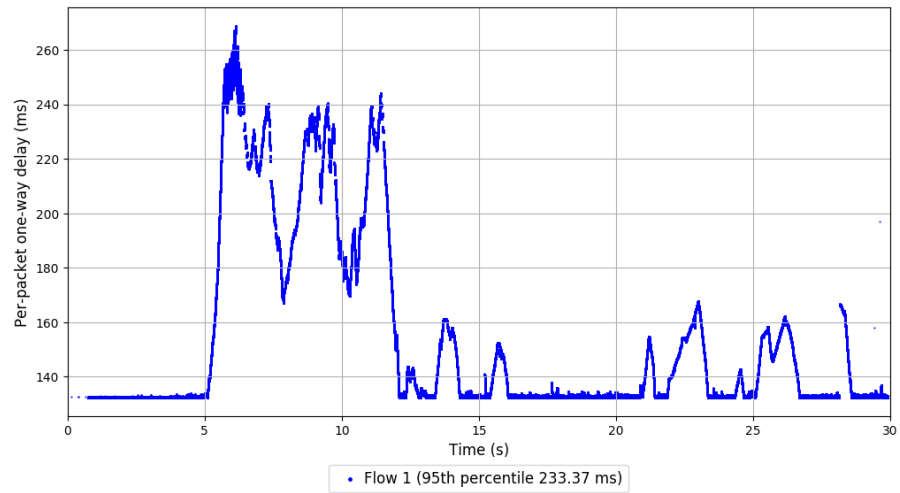
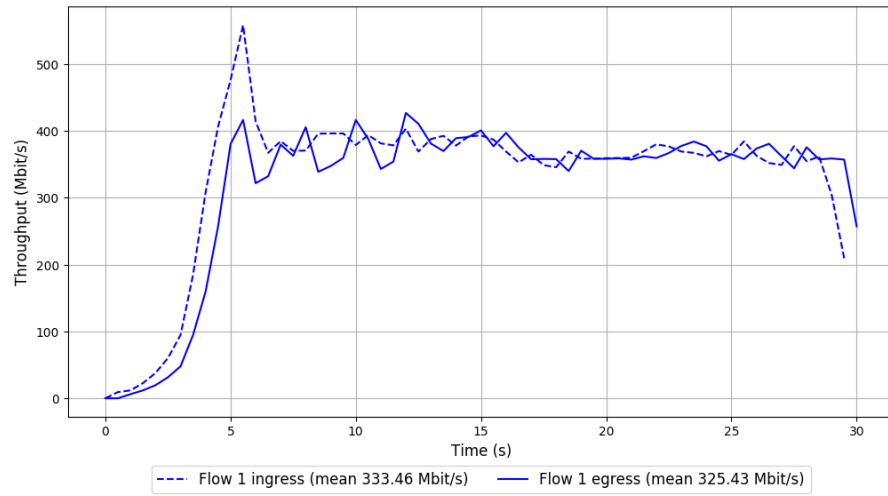


```
Run 1: Statistics of PCC-Expr

Start at: 2019-01-21 15:46:22
End at: 2019-01-21 15:46:52
Local clock offset: -0.071 ms
Remote clock offset: 0.03 ms

# Below is generated by plot.py at 2019-01-21 20:11:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 325.43 Mbit/s
95th percentile per-packet one-way delay: 233.371 ms
Loss rate: 2.41%
-- Flow 1:
Average throughput: 325.43 Mbit/s
95th percentile per-packet one-way delay: 233.371 ms
Loss rate: 2.41%
```

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

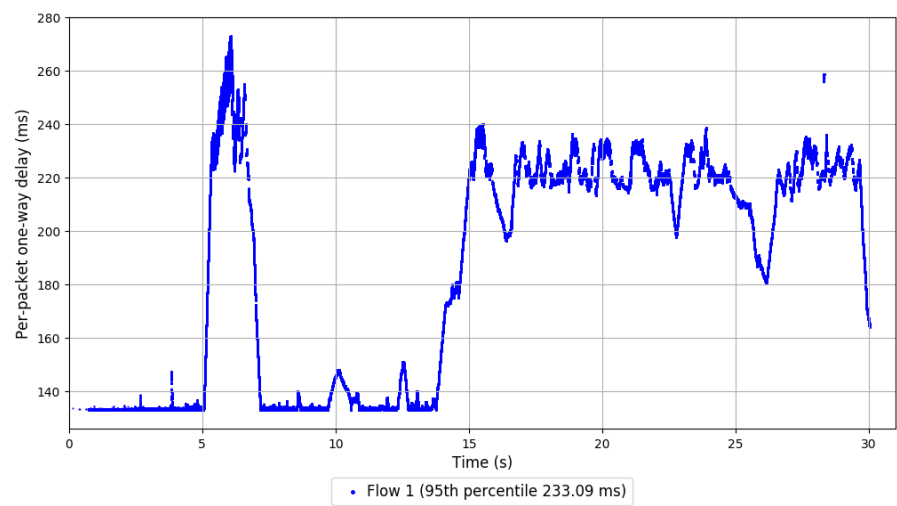
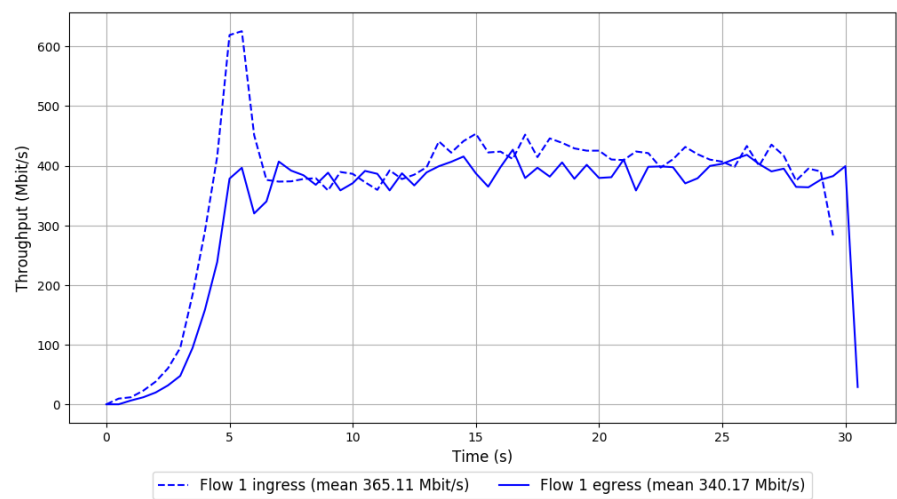


Run 2: Statistics of PCC-Expr

Start at: 2019-01-21 16:19:49  
End at: 2019-01-21 16:20:19  
Local clock offset: -0.046 ms  
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2019-01-21 20:13:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 340.17 Mbit/s  
95th percentile per-packet one-way delay: 233.087 ms  
Loss rate: 6.83%  
-- Flow 1:  
Average throughput: 340.17 Mbit/s  
95th percentile per-packet one-way delay: 233.087 ms  
Loss rate: 6.83%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-01-21 16:52:12

End at: 2019-01-21 16:52:42

Local clock offset: 0.314 ms

Remote clock offset: 0.053 ms

# Below is generated by plot.py at 2019-01-21 20:13:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 249.43 Mbit/s

95th percentile per-packet one-way delay: 223.564 ms

Loss rate: 1.20%

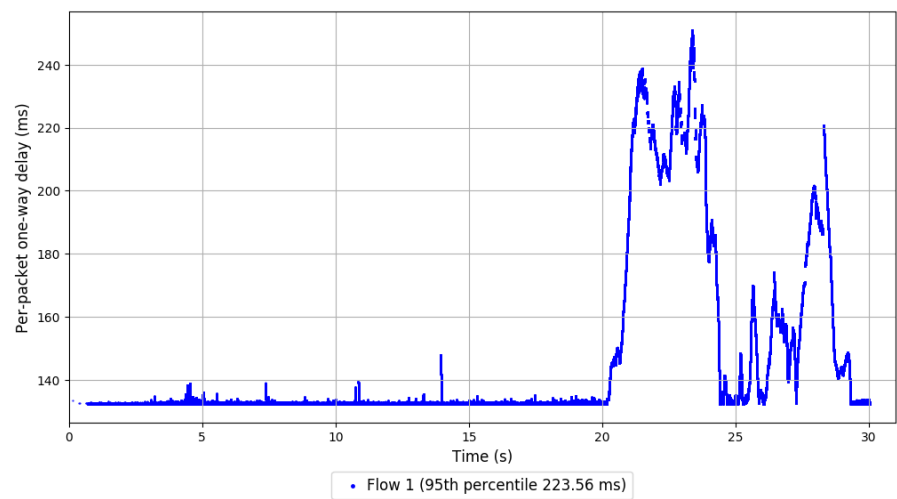
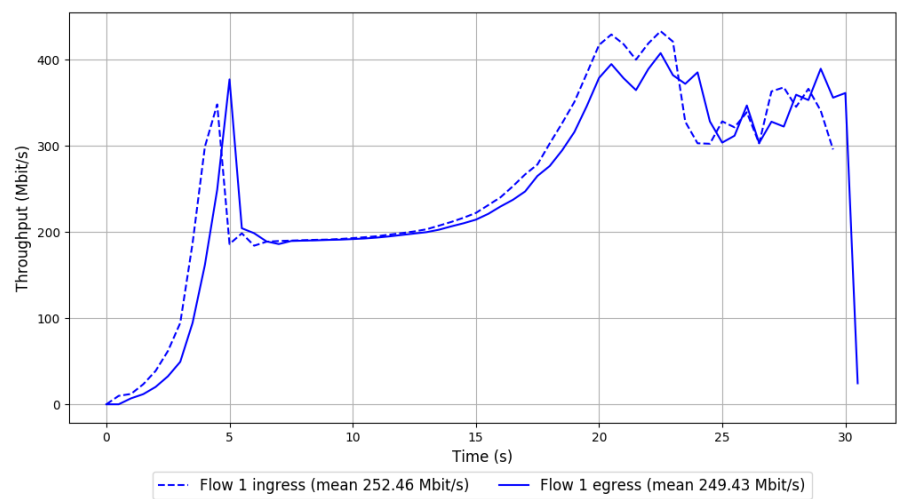
-- Flow 1:

Average throughput: 249.43 Mbit/s

95th percentile per-packet one-way delay: 223.564 ms

Loss rate: 1.20%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-01-21 17:25:55

End at: 2019-01-21 17:26:25

Local clock offset: -0.562 ms

Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2019-01-21 20:20:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 325.36 Mbit/s

95th percentile per-packet one-way delay: 219.878 ms

Loss rate: 2.88%

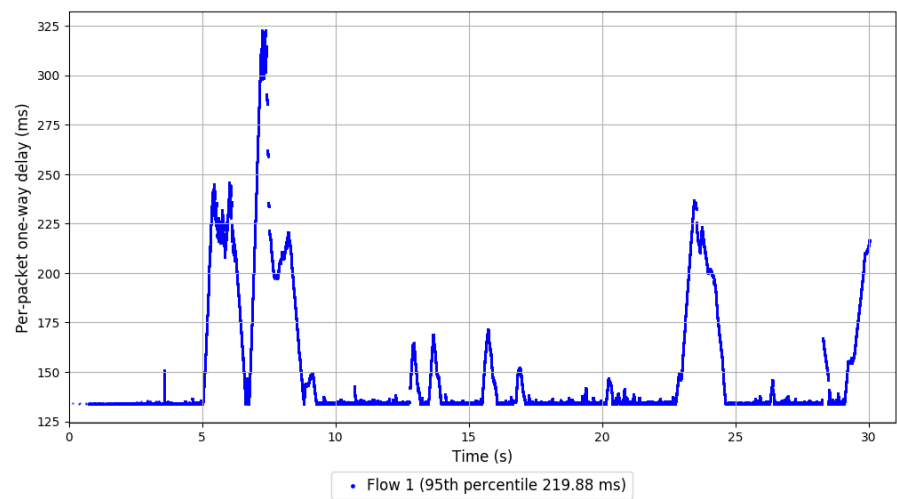
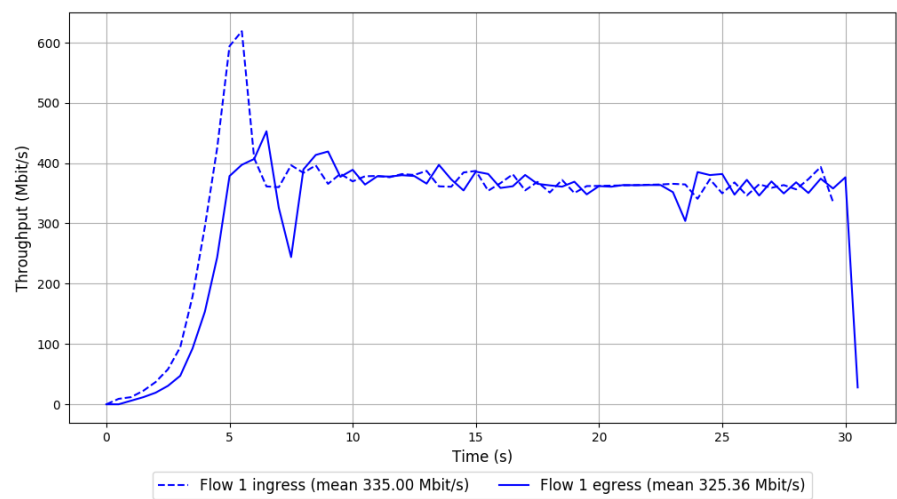
-- Flow 1:

Average throughput: 325.36 Mbit/s

95th percentile per-packet one-way delay: 219.878 ms

Loss rate: 2.88%

Run 4: Report of PCC-Expr — Data Link





Run 5: Statistics of PCC-Expr

Start at: 2019-01-21 17:58:52

End at: 2019-01-21 17:59:22

Local clock offset: -0.442 ms

Remote clock offset: 0.069 ms

# Below is generated by plot.py at 2019-01-21 20:22:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 338.42 Mbit/s

95th percentile per-packet one-way delay: 217.468 ms

Loss rate: 1.74%

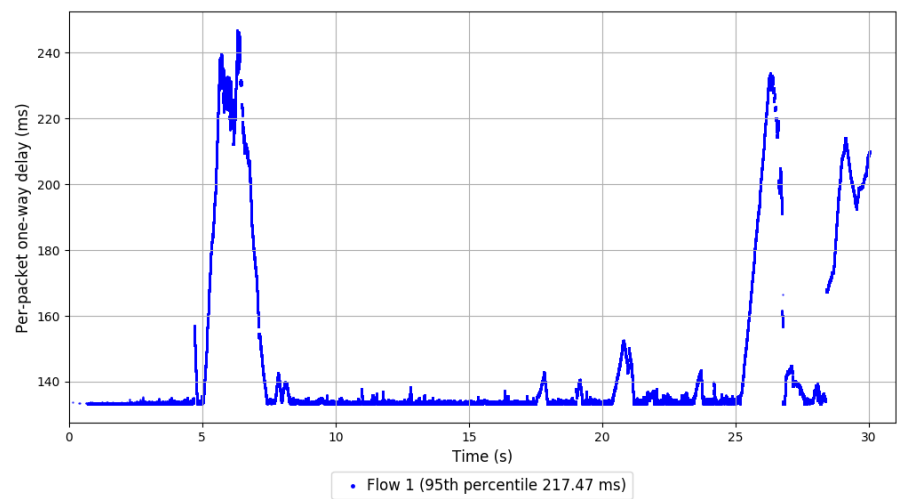
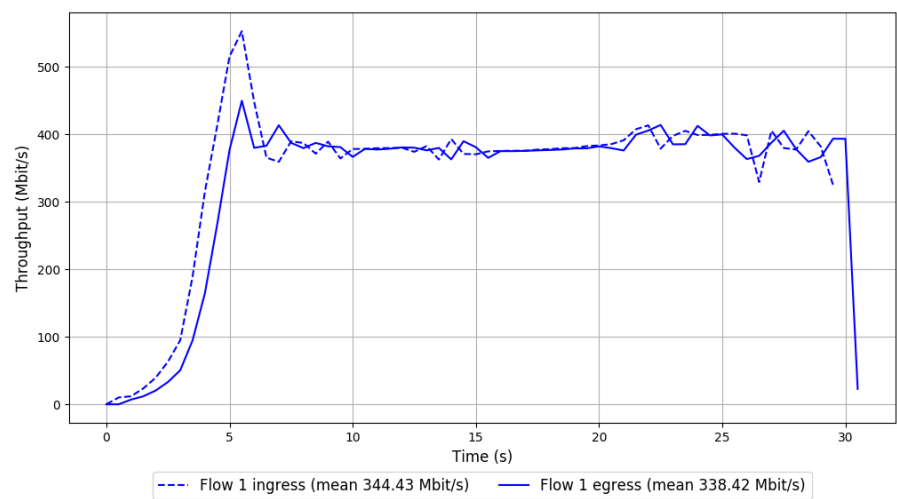
-- Flow 1:

Average throughput: 338.42 Mbit/s

95th percentile per-packet one-way delay: 217.468 ms

Loss rate: 1.74%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

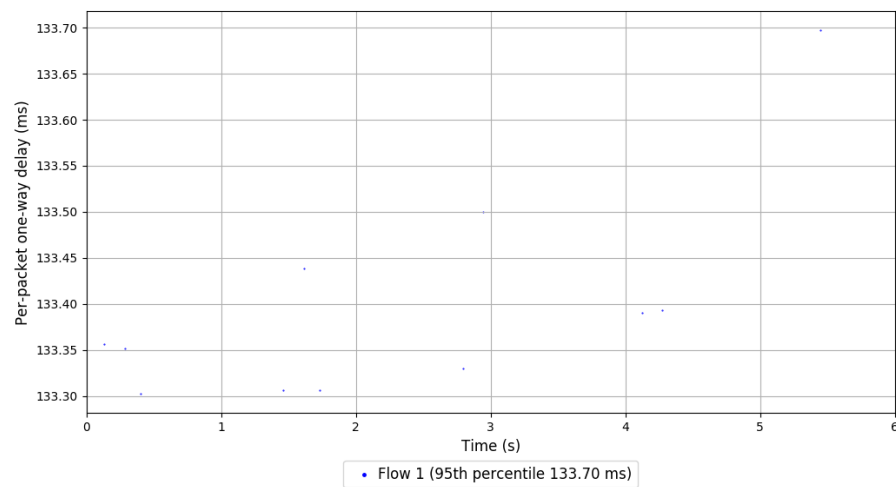
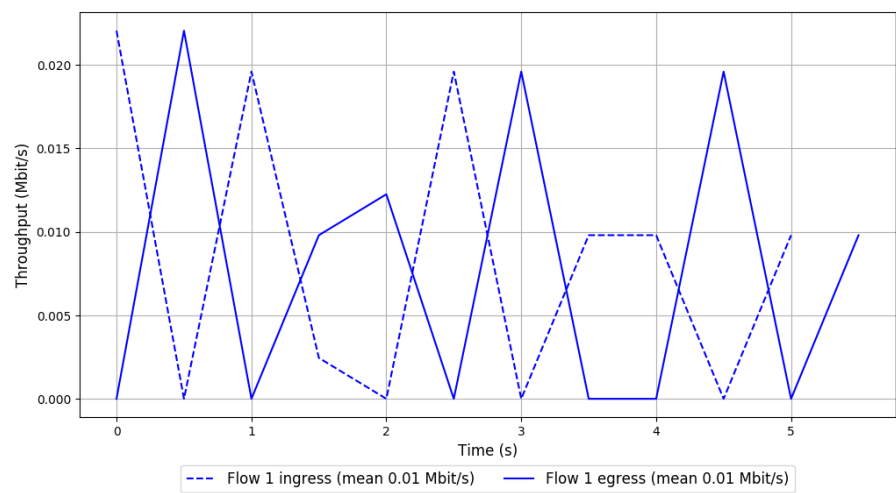
Start at: 2019-01-21 15:55:10

End at: 2019-01-21 15:55:40

Local clock offset: 0.125 ms

Remote clock offset: 0.038 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-01-21 16:27:56

End at: 2019-01-21 16:28:26

Local clock offset: 0.323 ms

Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2019-01-21 20:22:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 60.23 Mbit/s

95th percentile per-packet one-way delay: 132.463 ms

Loss rate: 0.00%

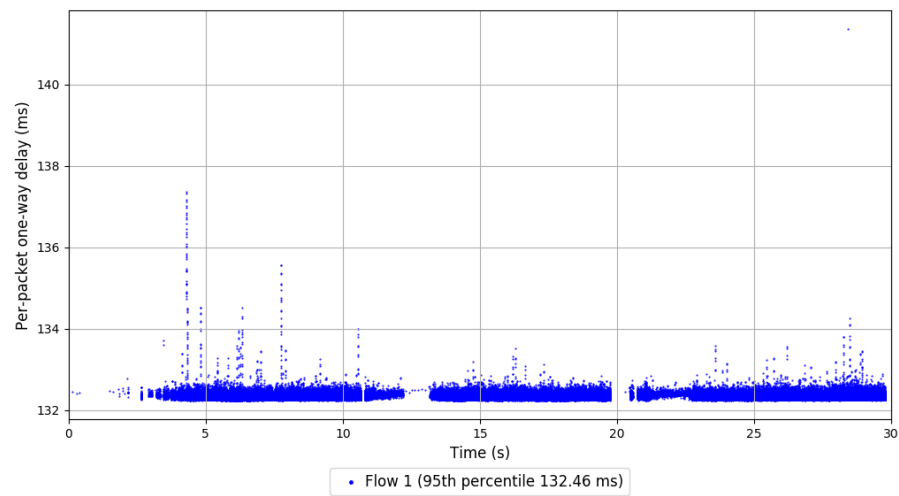
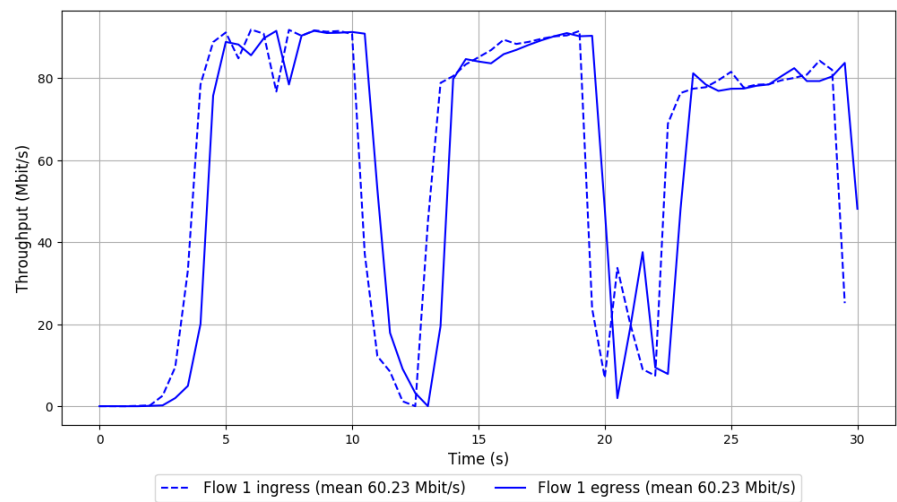
-- Flow 1:

Average throughput: 60.23 Mbit/s

95th percentile per-packet one-way delay: 132.463 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-01-21 17:01:20

End at: 2019-01-21 17:01:50

Local clock offset: -0.405 ms

Remote clock offset: 0.428 ms

# Below is generated by plot.py at 2019-01-21 20:22:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 60.16 Mbit/s

95th percentile per-packet one-way delay: 133.599 ms

Loss rate: 0.00%

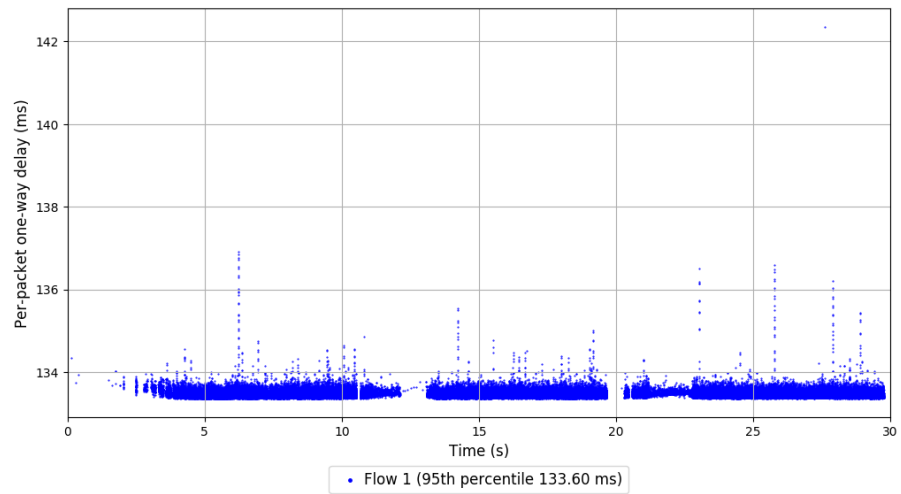
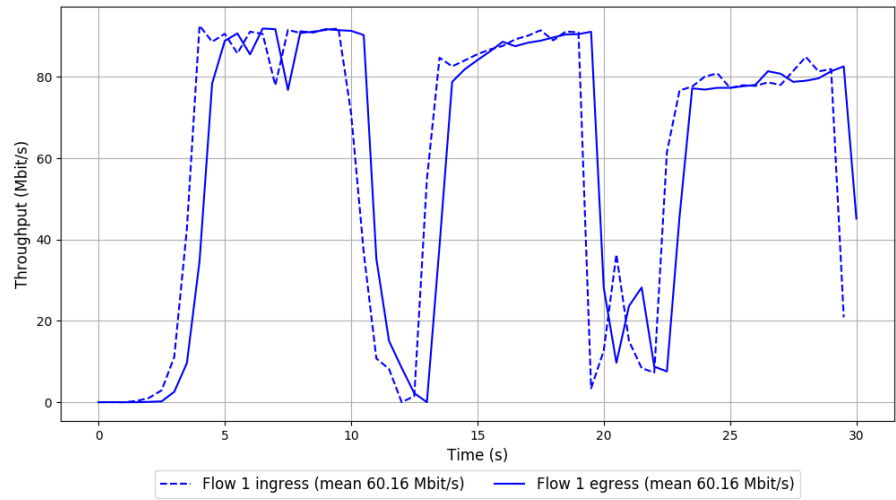
-- Flow 1:

Average throughput: 60.16 Mbit/s

95th percentile per-packet one-way delay: 133.599 ms

Loss rate: 0.00%

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



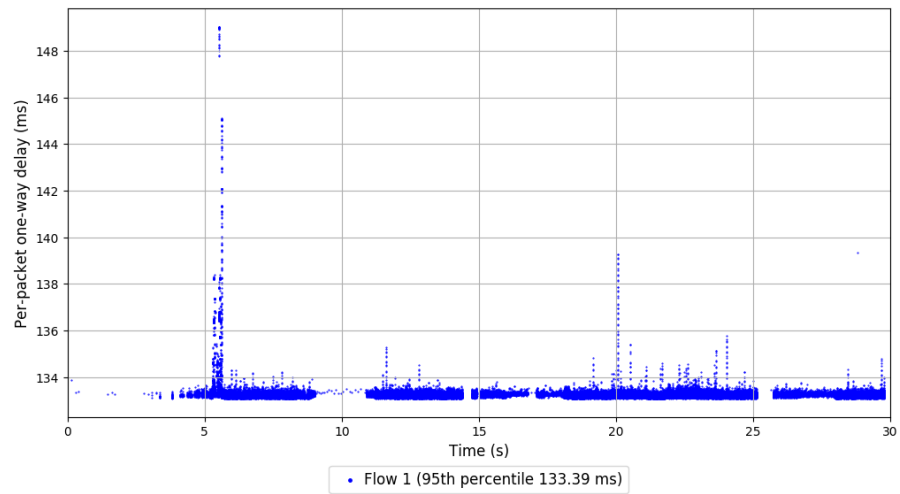
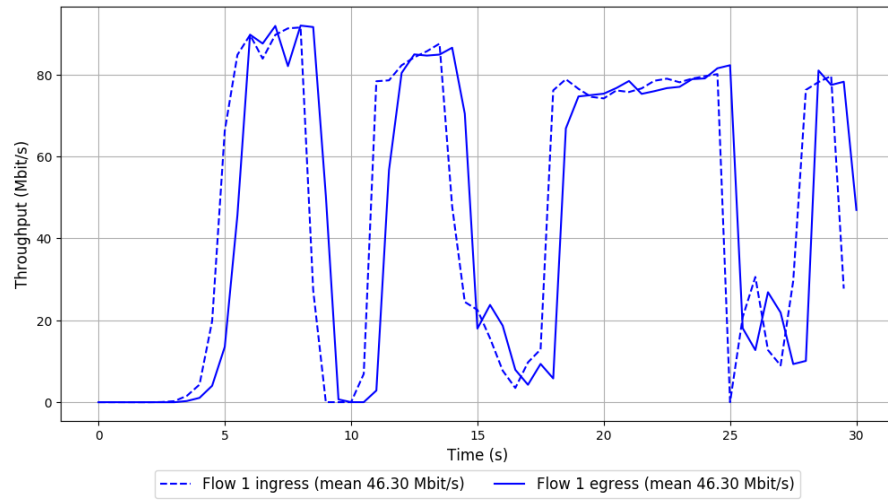


Run 4: Statistics of QUIC Cubic

Start at: 2019-01-21 17:34:52  
End at: 2019-01-21 17:35:22  
Local clock offset: -0.352 ms  
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2019-01-21 20:22:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 46.30 Mbit/s  
95th percentile per-packet one-way delay: 133.387 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 46.30 Mbit/s  
95th percentile per-packet one-way delay: 133.387 ms  
Loss rate: 0.00%

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



Run 5: Statistics of QUIC Cubic

Start at: 2019-01-21 18:07:16

End at: 2019-01-21 18:07:46

Local clock offset: -0.063 ms

Remote clock offset: 0.274 ms

# Below is generated by plot.py at 2019-01-21 20:22:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 44.97 Mbit/s

95th percentile per-packet one-way delay: 133.189 ms

Loss rate: 0.00%

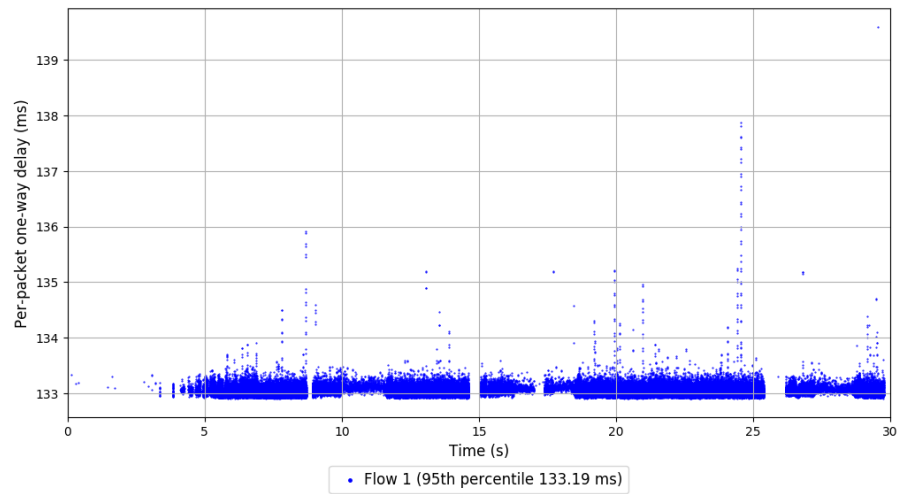
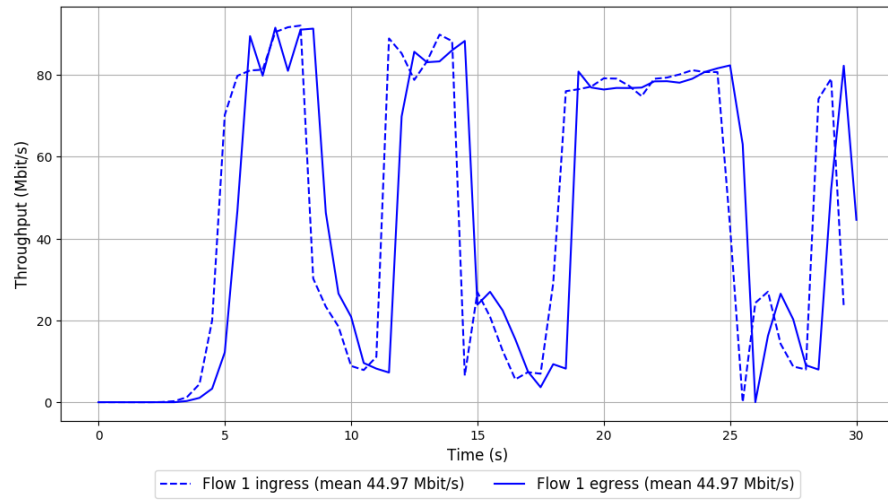
-- Flow 1:

Average throughput: 44.97 Mbit/s

95th percentile per-packet one-way delay: 133.189 ms

Loss rate: 0.00%

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

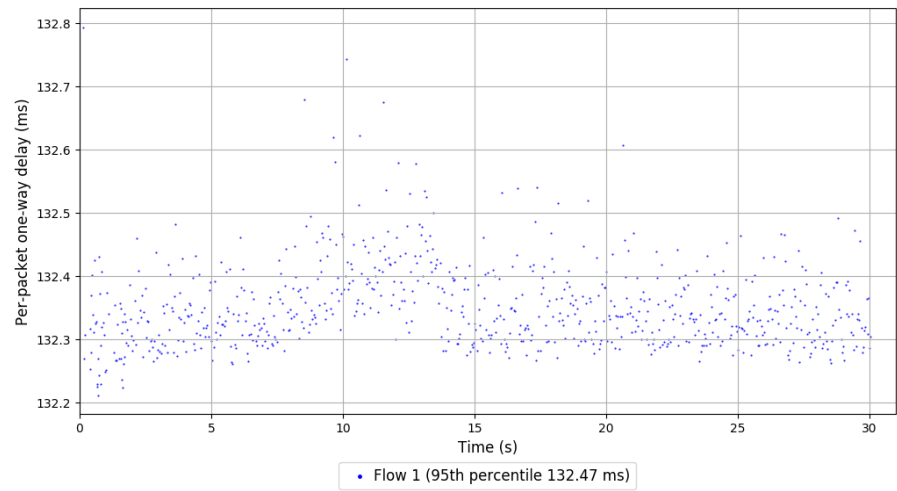
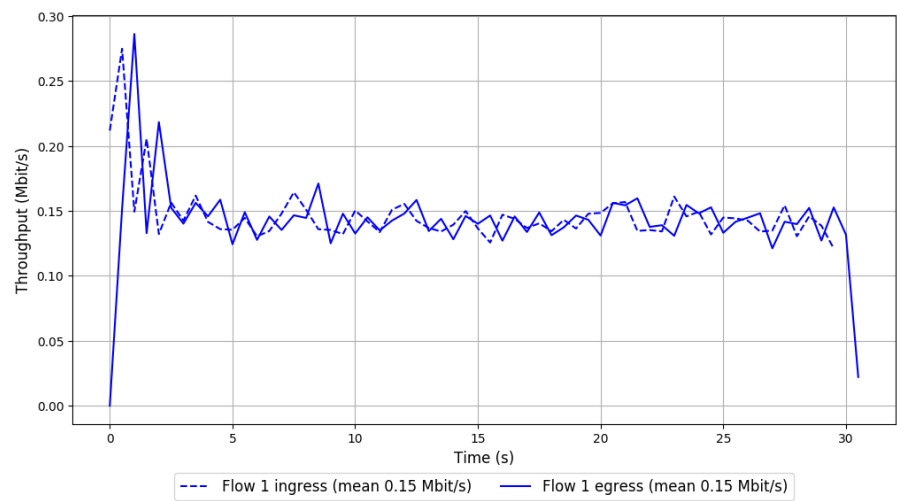


```
Run 1: Statistics of SCReAM

Start at: 2019-01-21 15:56:20
End at: 2019-01-21 15:56:50
Local clock offset: 0.352 ms
Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2019-01-21 20:22:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.465 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.465 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-01-21 16:29:11

End at: 2019-01-21 16:29:41

Local clock offset: -0.04 ms

Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2019-01-21 20:22:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 133.173 ms

Loss rate: 0.00%

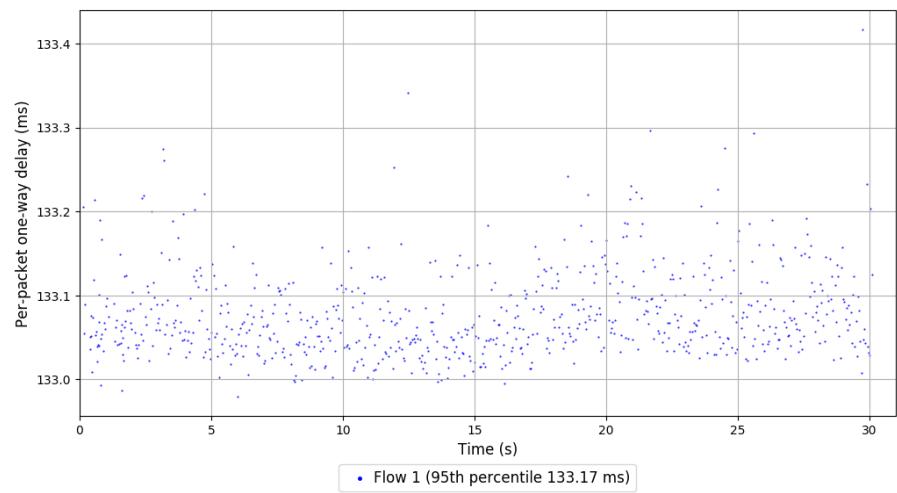
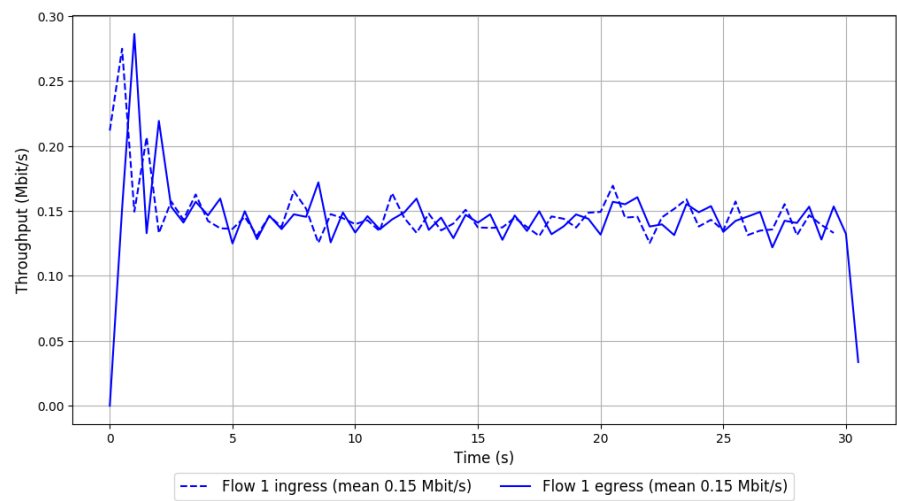
-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 133.173 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link





Run 3: Statistics of SCReAM

Start at: 2019-01-21 17:02:36

End at: 2019-01-21 17:03:06

Local clock offset: -0.586 ms

Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2019-01-21 20:22:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 133.747 ms

Loss rate: 0.00%

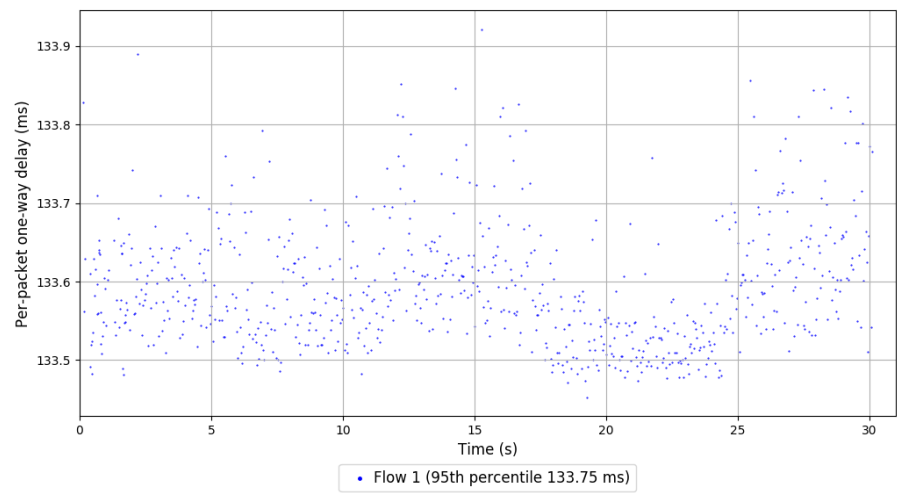
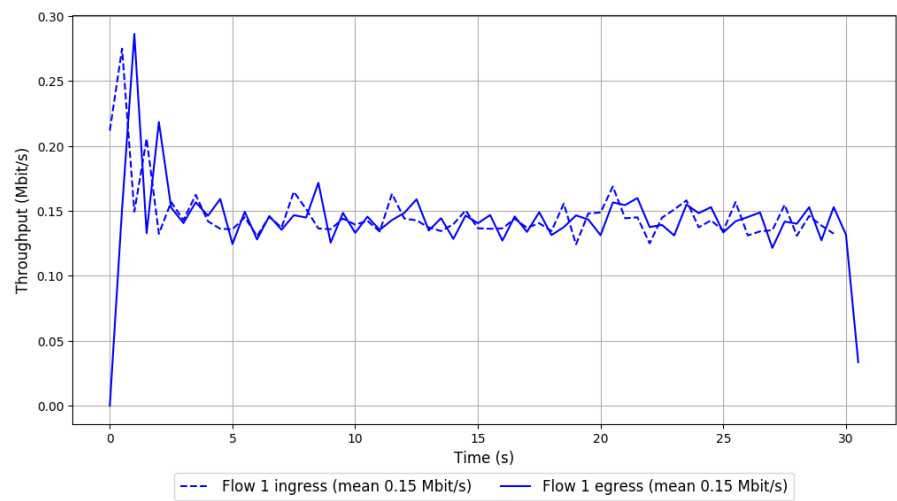
-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 133.747 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-01-21 17:36:07

End at: 2019-01-21 17:36:37

Local clock offset: -0.023 ms

Remote clock offset: 0.381 ms

# Below is generated by plot.py at 2019-01-21 20:22:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 132.986 ms

Loss rate: 0.00%

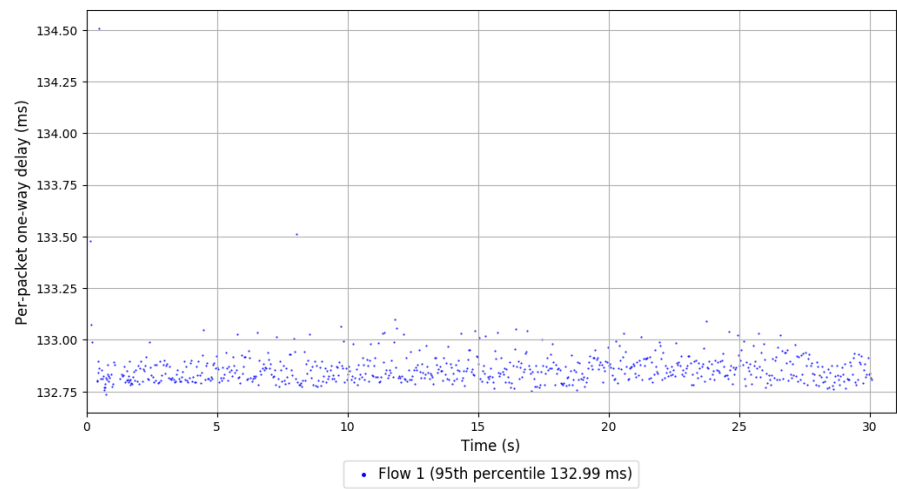
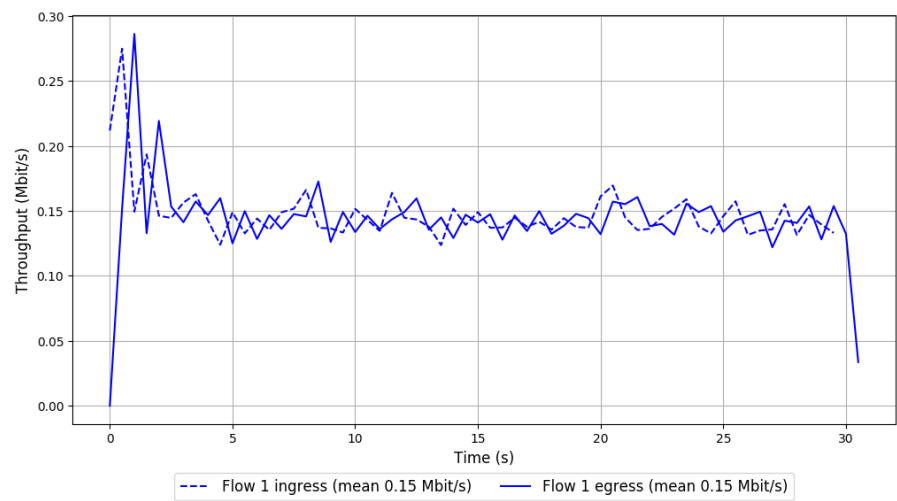
-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 132.986 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-01-21 18:08:34

End at: 2019-01-21 18:09:04

Local clock offset: -0.057 ms

Remote clock offset: 0.081 ms

# Below is generated by plot.py at 2019-01-21 20:22:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 133.313 ms

Loss rate: 0.00%

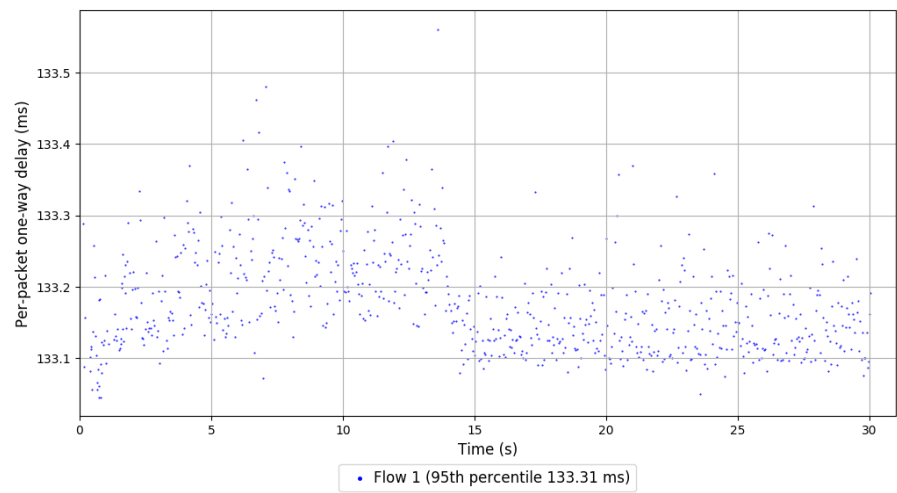
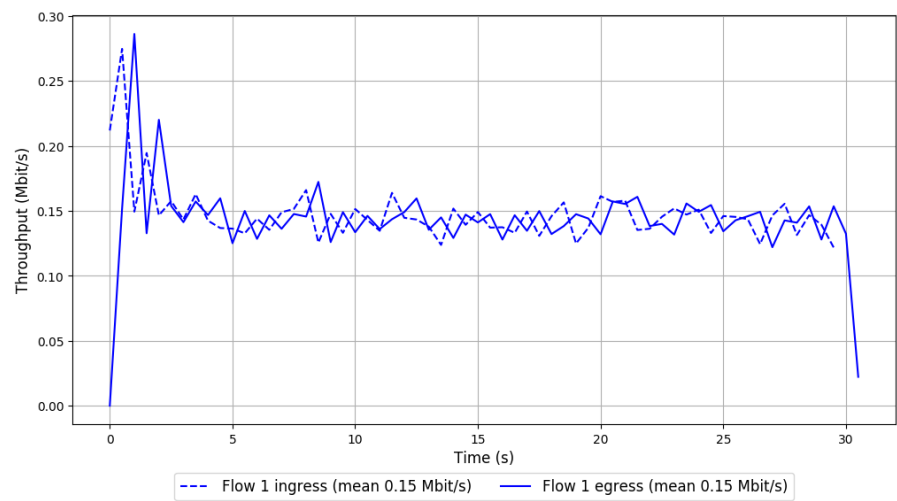
-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 133.313 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-01-21 15:45:11

End at: 2019-01-21 15:45:41

Local clock offset: 0.087 ms

Remote clock offset: 0.064 ms

# Below is generated by plot.py at 2019-01-21 20:22:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 133.314 ms

Loss rate: 0.00%

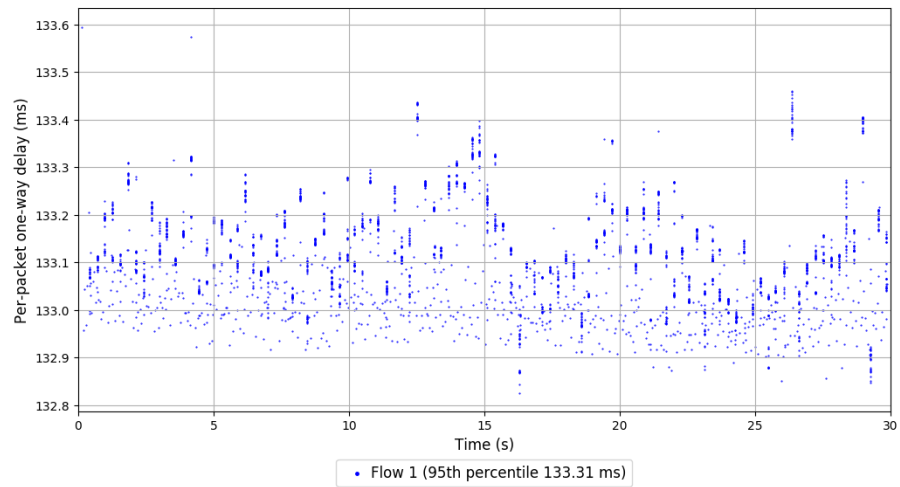
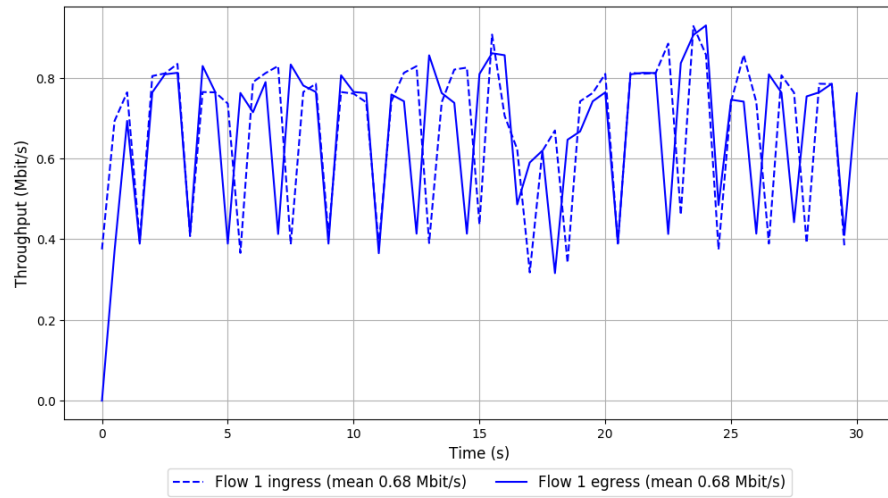
-- Flow 1:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 133.314 ms

Loss rate: 0.00%

# Run 1: Report of Sprout — Data Link





Run 2: Statistics of Sprout

Start at: 2019-01-21 16:18:38

End at: 2019-01-21 16:19:08

Local clock offset: -0.048 ms

Remote clock offset: 0.029 ms

# Below is generated by plot.py at 2019-01-21 20:22:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.67 Mbit/s

95th percentile per-packet one-way delay: 133.915 ms

Loss rate: 0.00%

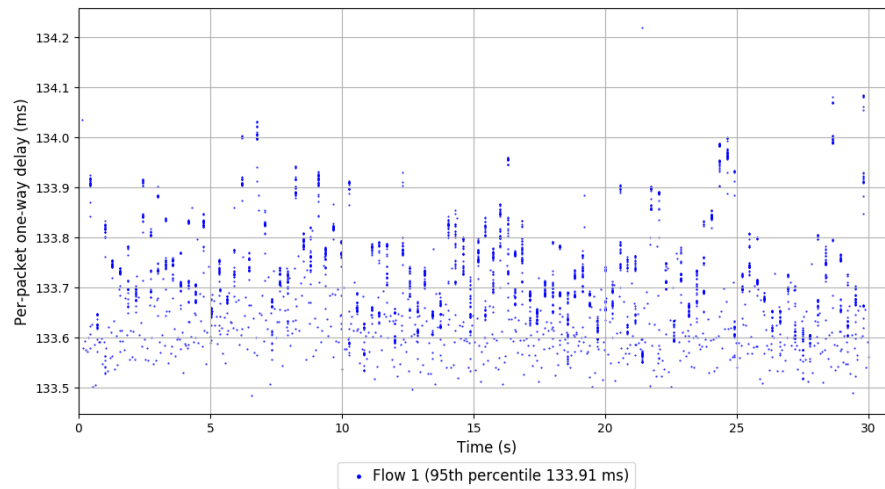
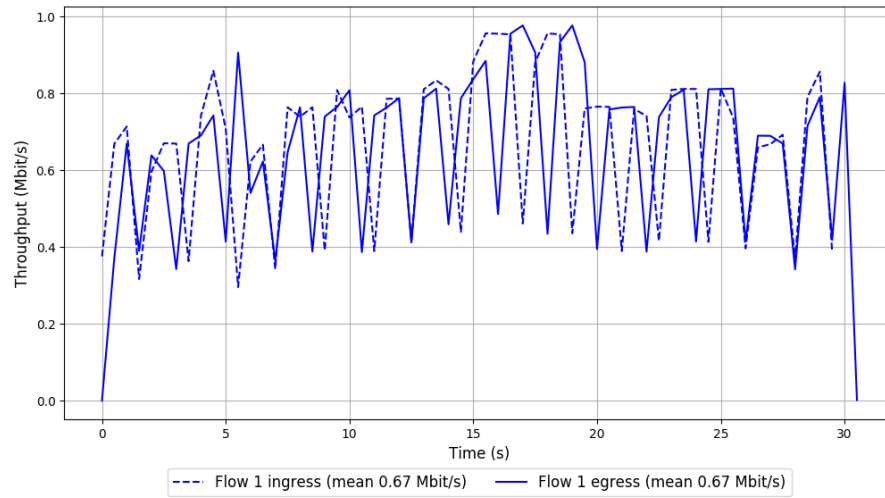
-- Flow 1:

Average throughput: 0.67 Mbit/s

95th percentile per-packet one-way delay: 133.915 ms

Loss rate: 0.00%

## Run 2: Report of Sprout — Data Link

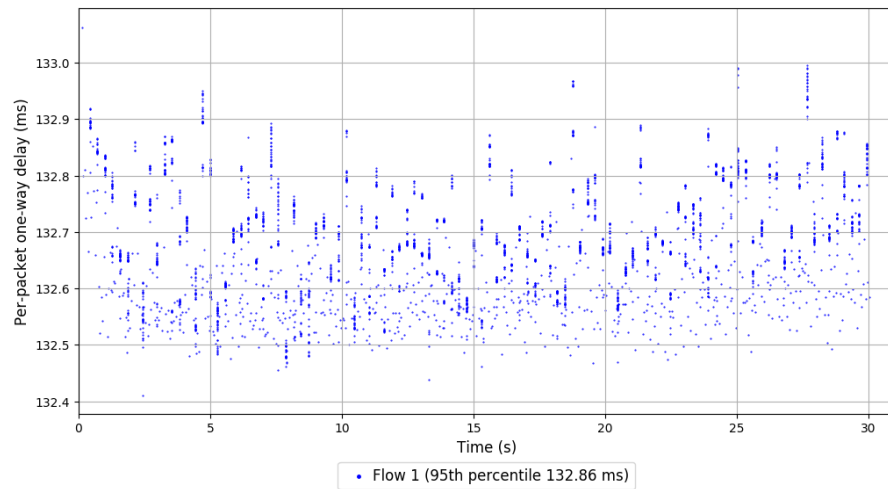
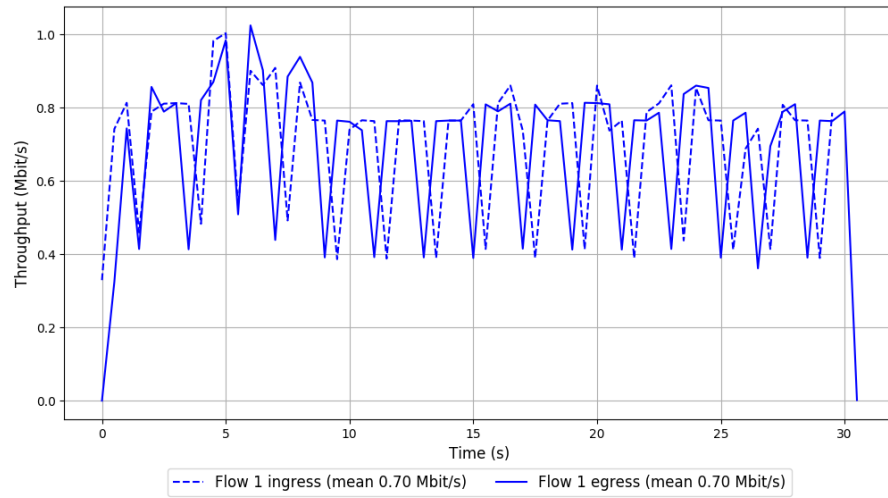


Run 3: Statistics of Sprout

Start at: 2019-01-21 16:51:01  
End at: 2019-01-21 16:51:31  
Local clock offset: -0.082 ms  
Remote clock offset: 0.058 ms

# Below is generated by plot.py at 2019-01-21 20:22:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.70 Mbit/s  
95th percentile per-packet one-way delay: 132.857 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.70 Mbit/s  
95th percentile per-packet one-way delay: 132.857 ms  
Loss rate: 0.00%

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

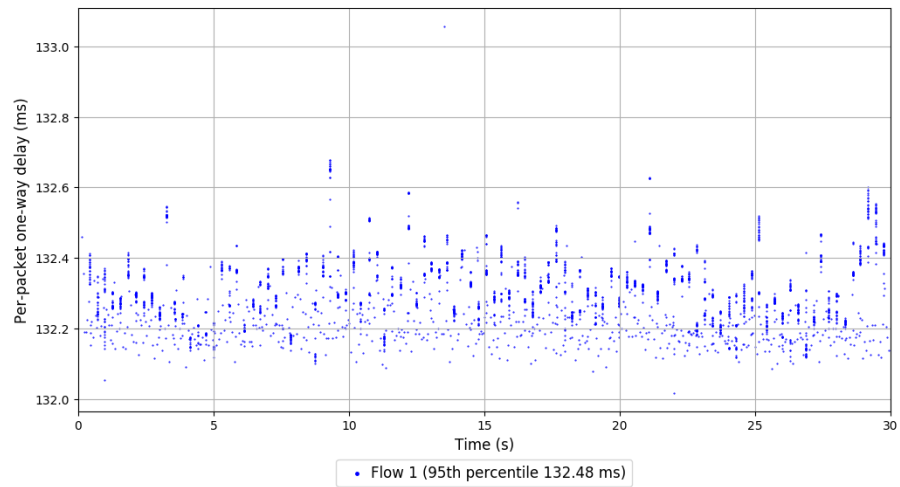
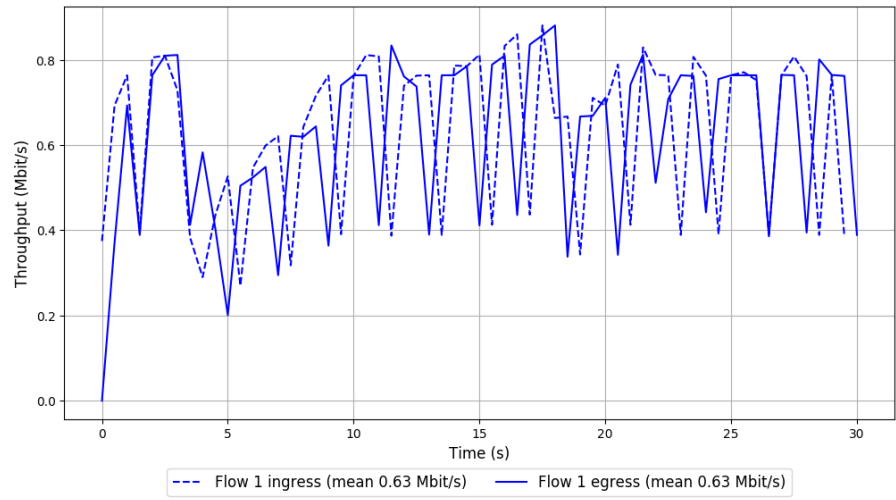


Run 4: Statistics of Sprout

Start at: 2019-01-21 17:24:44  
End at: 2019-01-21 17:25:14  
Local clock offset: 0.279 ms  
Remote clock offset: -0.333 ms

# Below is generated by plot.py at 2019-01-21 20:22:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.63 Mbit/s  
95th percentile per-packet one-way delay: 132.479 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.63 Mbit/s  
95th percentile per-packet one-way delay: 132.479 ms  
Loss rate: 0.00%

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



Run 5: Statistics of Sprout

Start at: 2019-01-21 17:57:41

End at: 2019-01-21 17:58:11

Local clock offset: -0.323 ms

Remote clock offset: 0.403 ms

# Below is generated by plot.py at 2019-01-21 20:22:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 133.706 ms

Loss rate: 0.00%

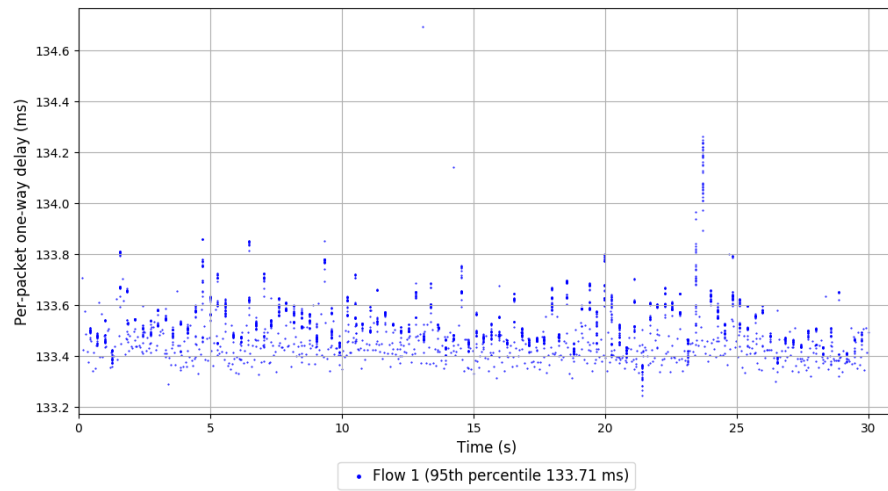
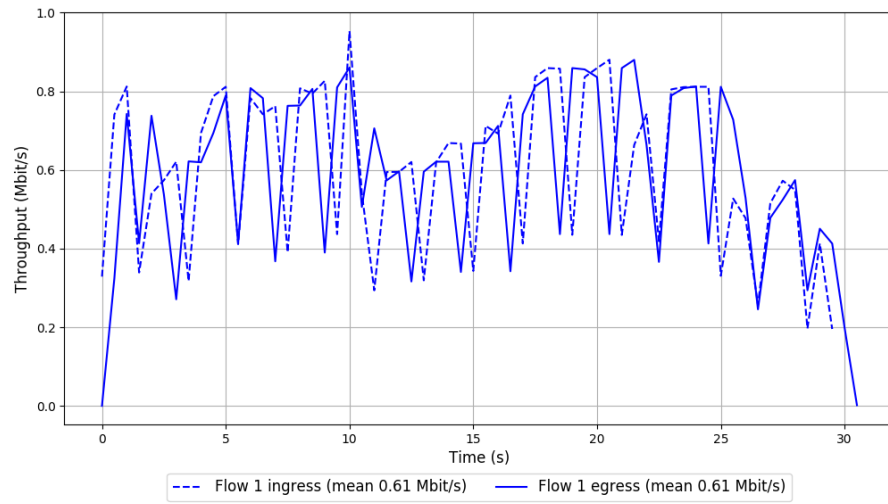
-- Flow 1:

Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 133.706 ms

Loss rate: 0.00%

## Run 5: Report of Sprout — Data Link



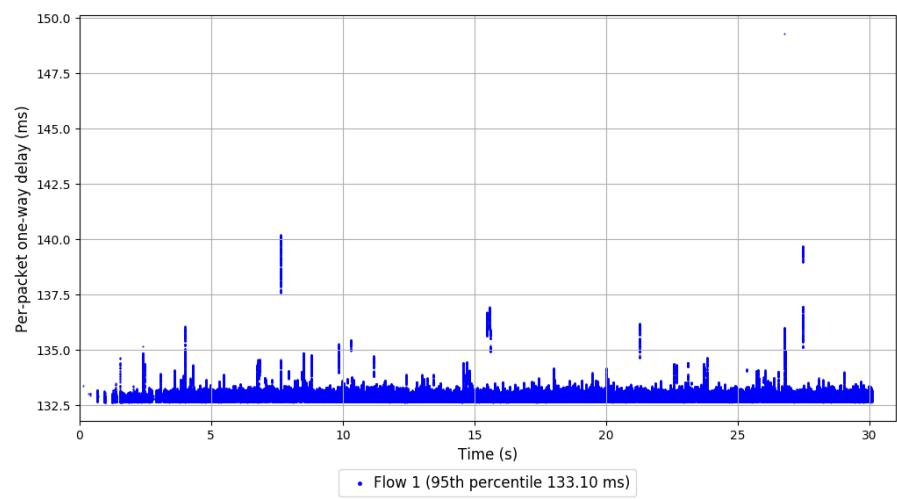
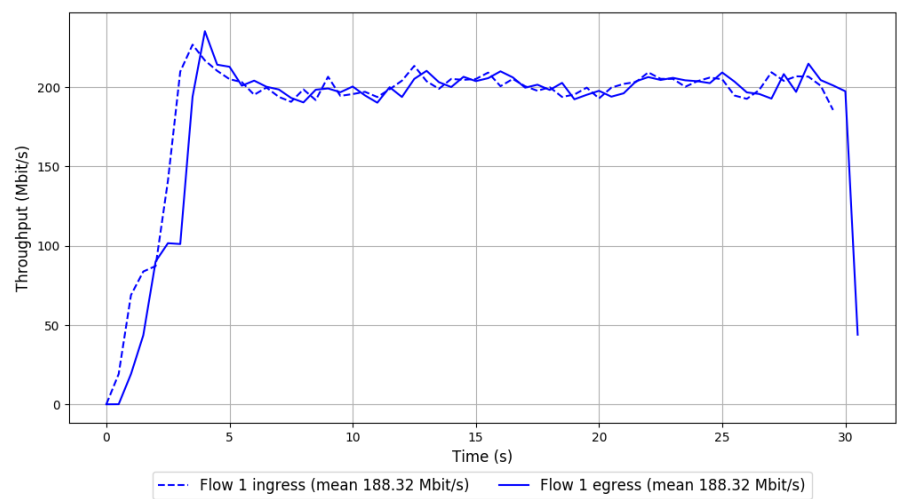


Run 1: Statistics of TaoVA-100x

Start at: 2019-01-21 15:50:13  
End at: 2019-01-21 15:50:43  
Local clock offset: -0.065 ms  
Remote clock offset: -0.292 ms

# Below is generated by plot.py at 2019-01-21 20:22:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 188.32 Mbit/s  
95th percentile per-packet one-way delay: 133.099 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 188.32 Mbit/s  
95th percentile per-packet one-way delay: 133.099 ms  
Loss rate: 0.00%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-01-21 16:23:15

End at: 2019-01-21 16:23:45

Local clock offset: 0.236 ms

Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2019-01-21 20:22:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 185.56 Mbit/s

95th percentile per-packet one-way delay: 133.530 ms

Loss rate: 0.00%

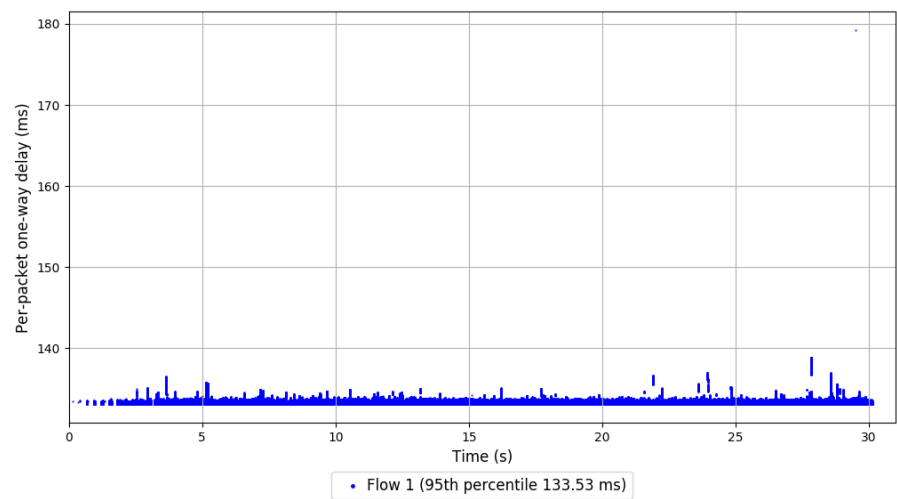
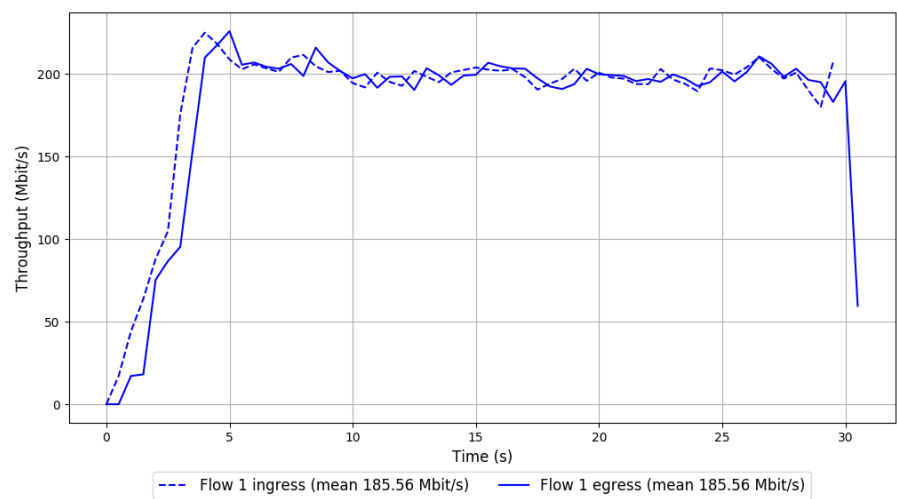
-- Flow 1:

Average throughput: 185.56 Mbit/s

95th percentile per-packet one-way delay: 133.530 ms

Loss rate: 0.00%

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

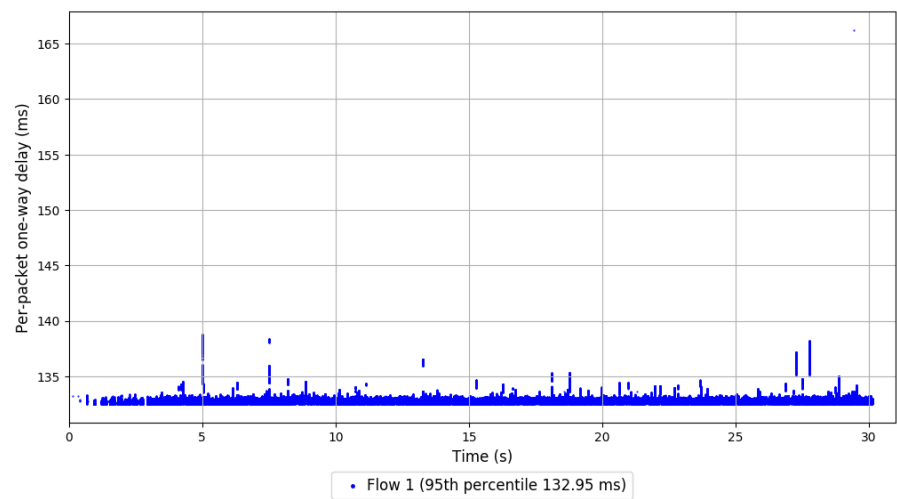
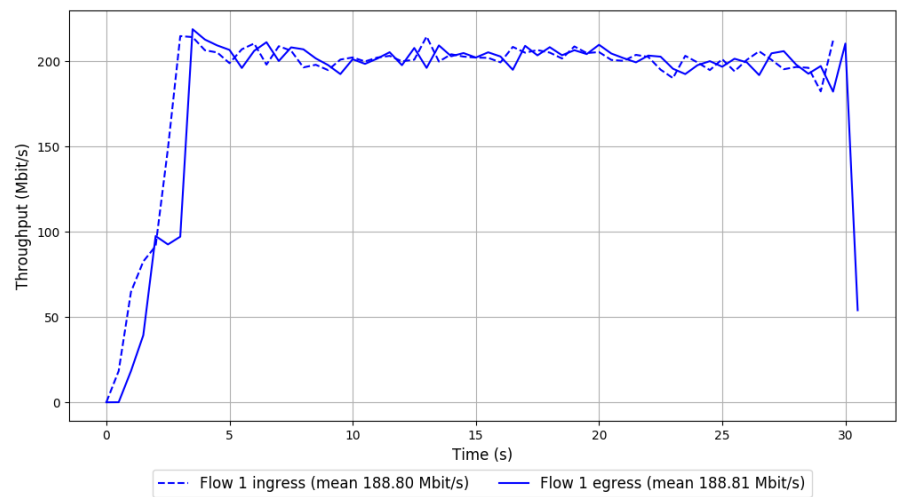


Run 3: Statistics of TaoVA-100x

Start at: 2019-01-21 16:56:19  
End at: 2019-01-21 16:56:49  
Local clock offset: -0.14 ms  
Remote clock offset: -0.293 ms

# Below is generated by plot.py at 2019-01-21 20:22:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 188.81 Mbit/s  
95th percentile per-packet one-way delay: 132.954 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 188.81 Mbit/s  
95th percentile per-packet one-way delay: 132.954 ms  
Loss rate: 0.00%

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

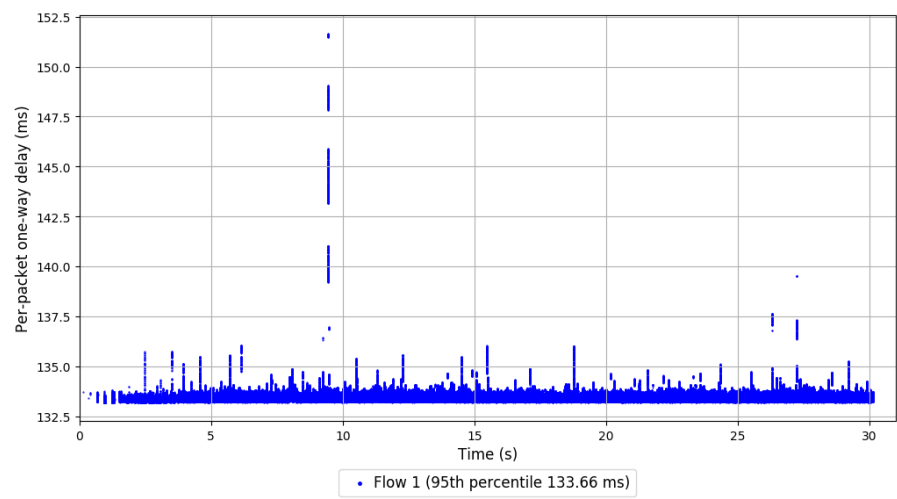
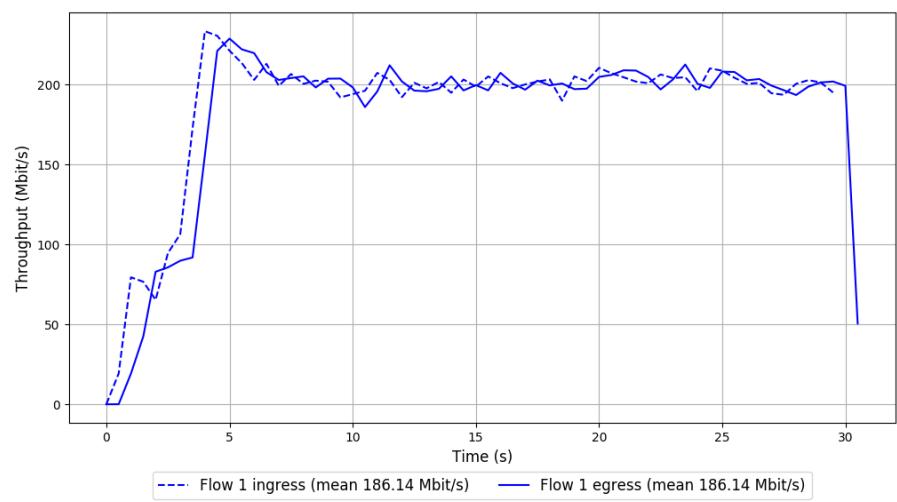


Run 4: Statistics of TaoVA-100x

Start at: 2019-01-21 17:29:55  
End at: 2019-01-21 17:30:25  
Local clock offset: -0.615 ms  
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2019-01-21 20:22:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 186.14 Mbit/s  
95th percentile per-packet one-way delay: 133.655 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 186.14 Mbit/s  
95th percentile per-packet one-way delay: 133.655 ms  
Loss rate: 0.00%

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





Run 5: Statistics of TaoVA-100x

Start at: 2019-01-21 18:02:25

End at: 2019-01-21 18:02:55

Local clock offset: -0.25 ms

Remote clock offset: 0.061 ms

# Below is generated by plot.py at 2019-01-21 20:22:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 190.59 Mbit/s

95th percentile per-packet one-way delay: 133.202 ms

Loss rate: 0.00%

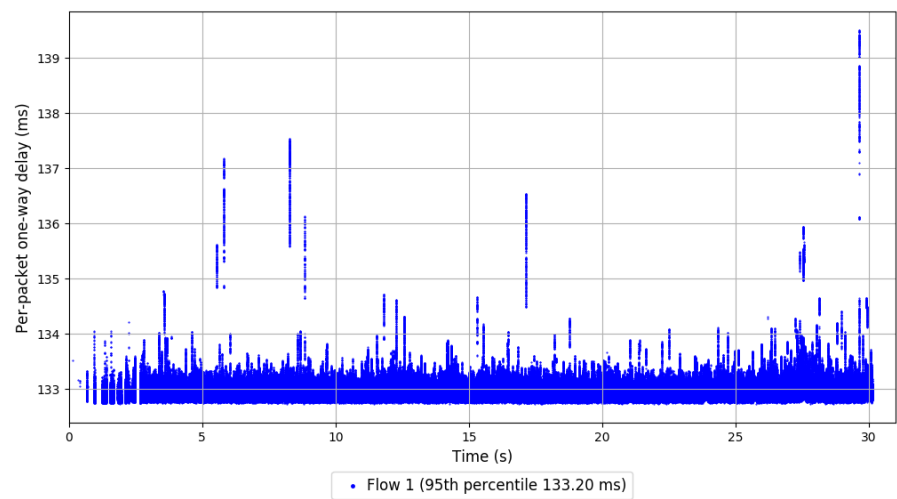
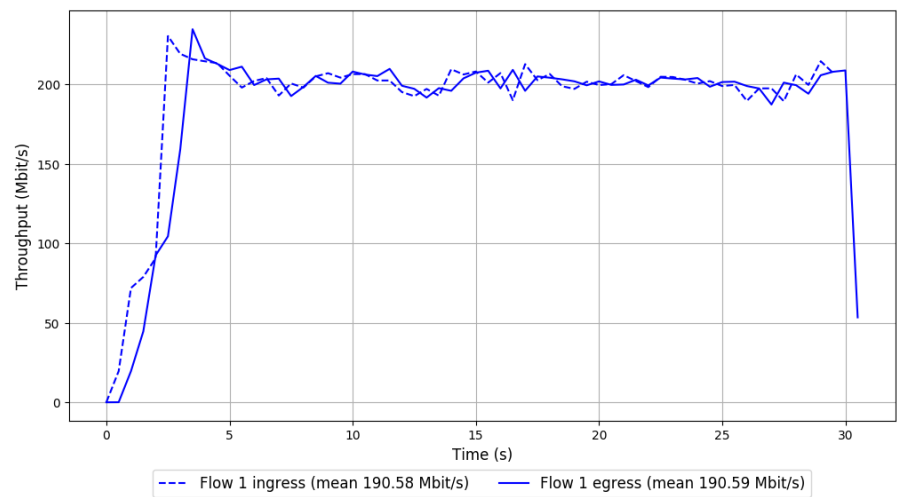
-- Flow 1:

Average throughput: 190.59 Mbit/s

95th percentile per-packet one-way delay: 133.202 ms

Loss rate: 0.00%

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

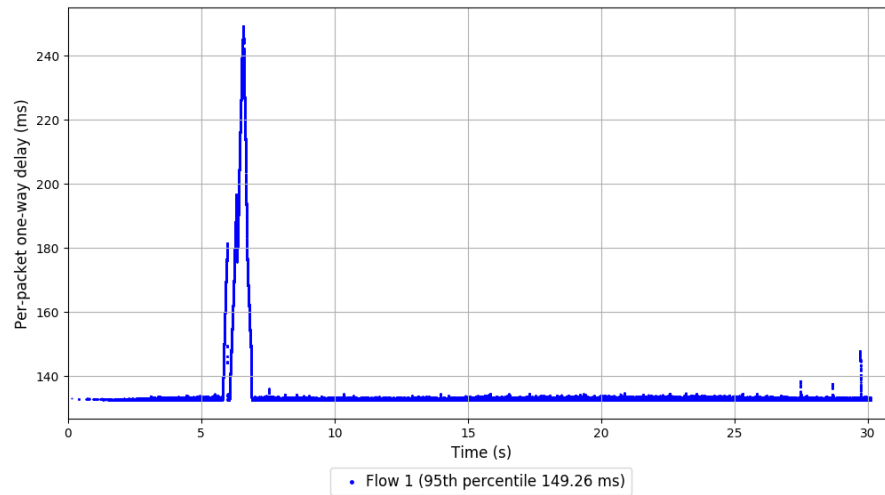
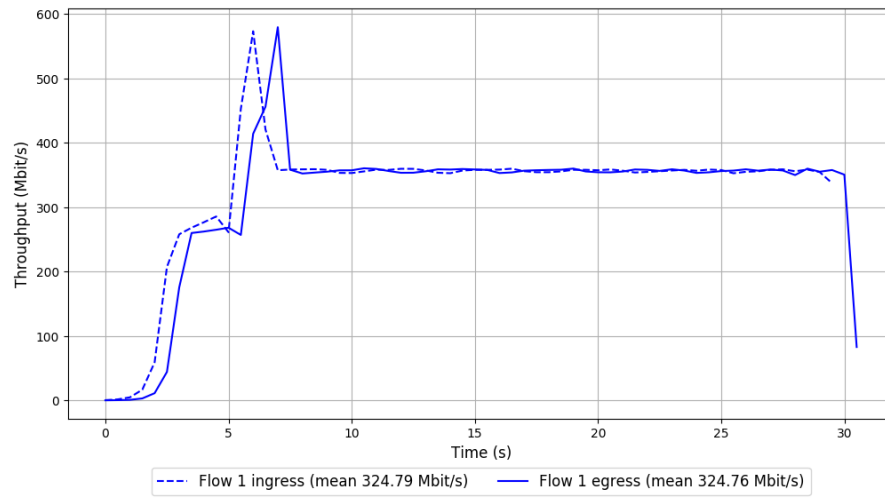


Run 1: Statistics of TCP Vegas

Start at: 2019-01-21 15:53:35  
End at: 2019-01-21 15:54:05  
Local clock offset: 0.144 ms  
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2019-01-21 20:22:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 324.76 Mbit/s  
95th percentile per-packet one-way delay: 149.261 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 324.76 Mbit/s  
95th percentile per-packet one-way delay: 149.261 ms  
Loss rate: 0.01%

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

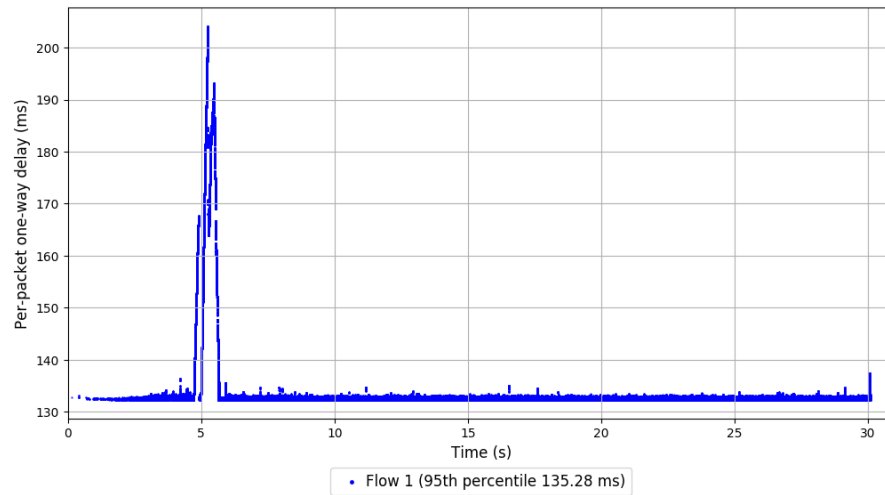
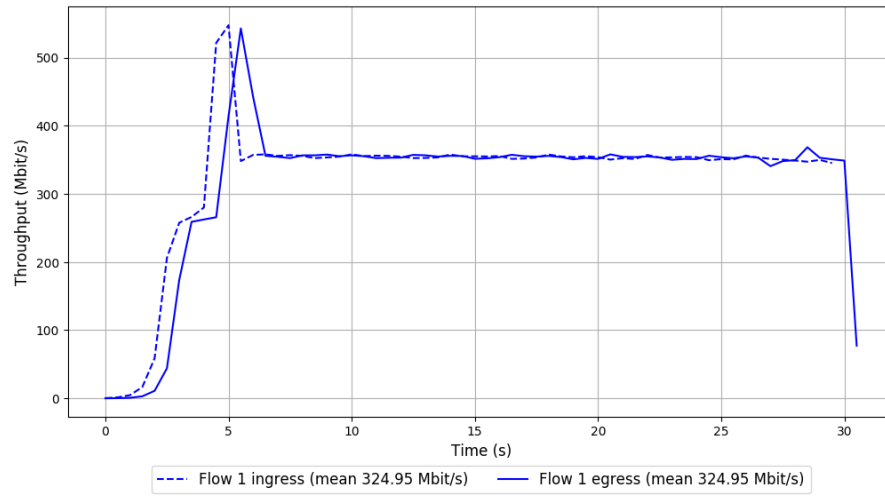


Run 2: Statistics of TCP Vegas

Start at: 2019-01-21 16:26:25  
End at: 2019-01-21 16:26:55  
Local clock offset: 0.22 ms  
Remote clock offset: -0.365 ms

# Below is generated by plot.py at 2019-01-21 20:28:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 324.95 Mbit/s  
95th percentile per-packet one-way delay: 135.284 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 324.95 Mbit/s  
95th percentile per-packet one-way delay: 135.284 ms  
Loss rate: 0.00%

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



Run 3: Statistics of TCP Vegas

Start at: 2019-01-21 16:59:45

End at: 2019-01-21 17:00:15

Local clock offset: 0.293 ms

Remote clock offset: 0.325 ms

# Below is generated by plot.py at 2019-01-21 20:28:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 328.86 Mbit/s

95th percentile per-packet one-way delay: 142.507 ms

Loss rate: 0.00%

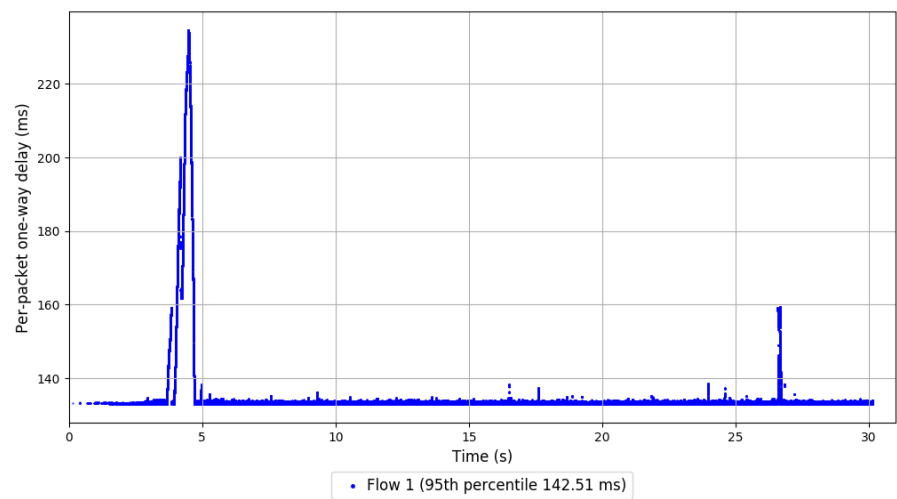
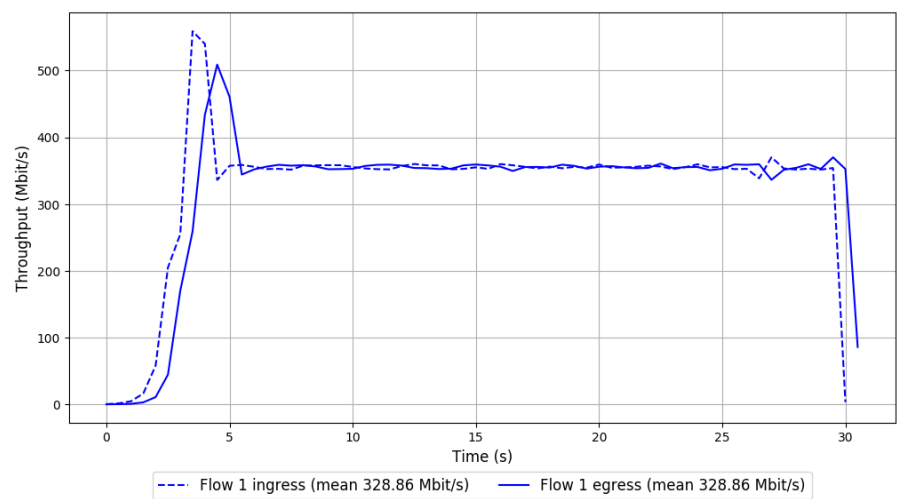
-- Flow 1:

Average throughput: 328.86 Mbit/s

95th percentile per-packet one-way delay: 142.507 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link





Run 4: Statistics of TCP Vegas

Start at: 2019-01-21 17:33:17

End at: 2019-01-21 17:33:47

Local clock offset: -0.45 ms

Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2019-01-21 20:28:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 312.46 Mbit/s

95th percentile per-packet one-way delay: 135.195 ms

Loss rate: 0.00%

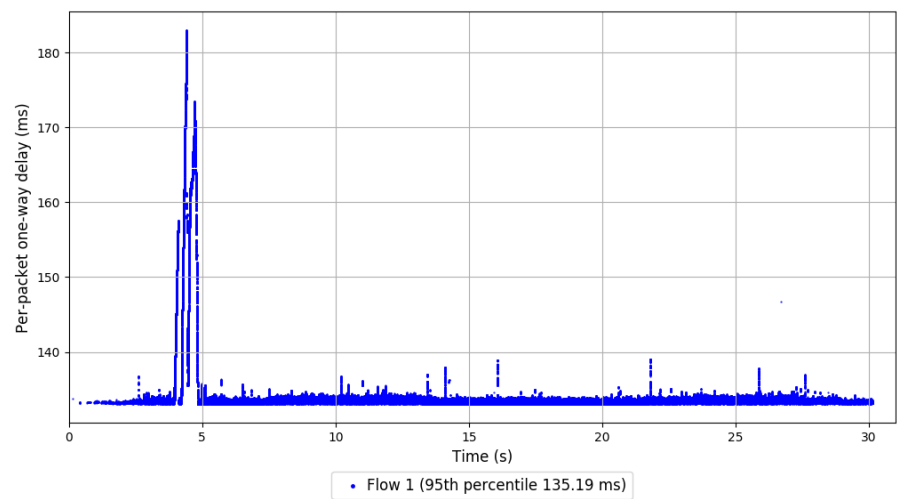
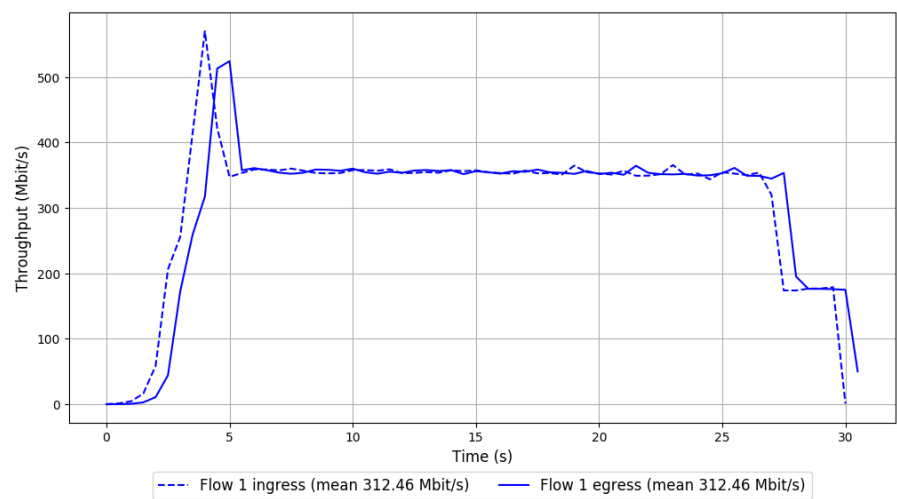
-- Flow 1:

Average throughput: 312.46 Mbit/s

95th percentile per-packet one-way delay: 135.195 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link

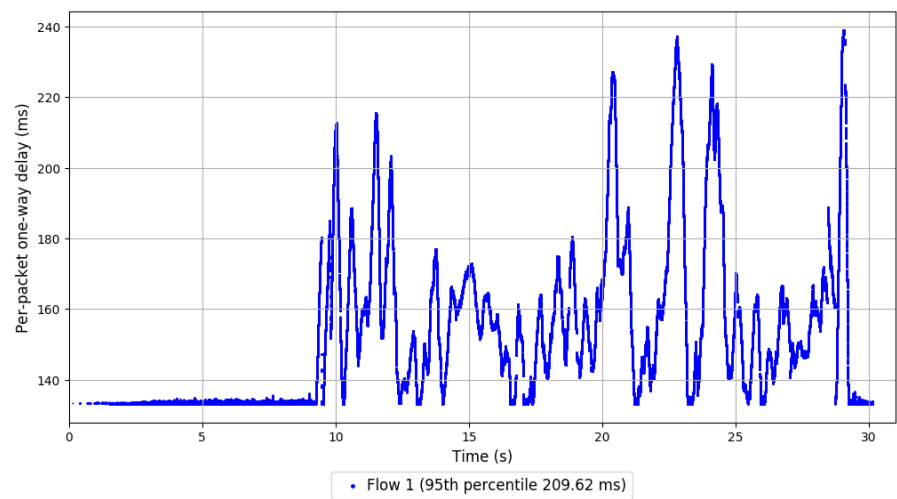
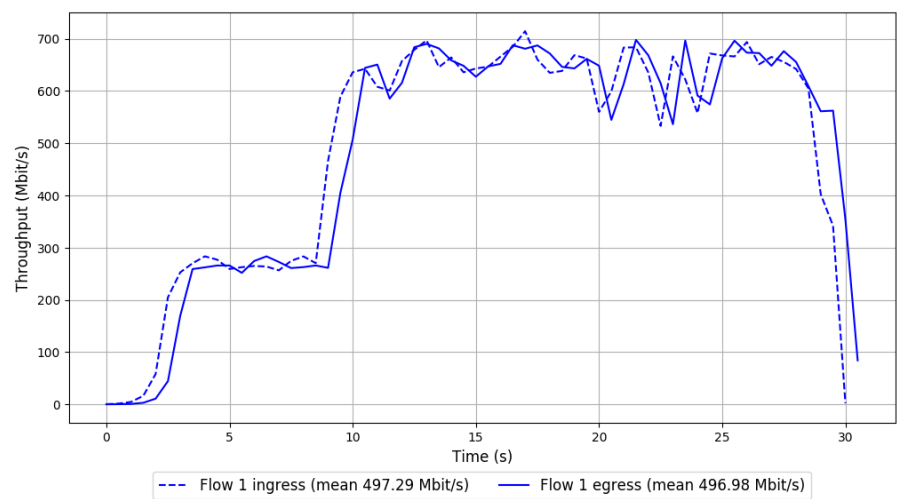


Run 5: Statistics of TCP Vegas

Start at: 2019-01-21 18:05:36  
End at: 2019-01-21 18:06:07  
Local clock offset: -0.625 ms  
Remote clock offset: -0.276 ms

# Below is generated by plot.py at 2019-01-21 20:33:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 496.98 Mbit/s  
95th percentile per-packet one-way delay: 209.625 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 496.98 Mbit/s  
95th percentile per-packet one-way delay: 209.625 ms  
Loss rate: 0.06%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-01-21 15:41:59

End at: 2019-01-21 15:42:29

Local clock offset: 0.12 ms

Remote clock offset: -0.17 ms

# Below is generated by plot.py at 2019-01-21 20:33:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 170.27 Mbit/s

95th percentile per-packet one-way delay: 212.272 ms

Loss rate: 2.10%

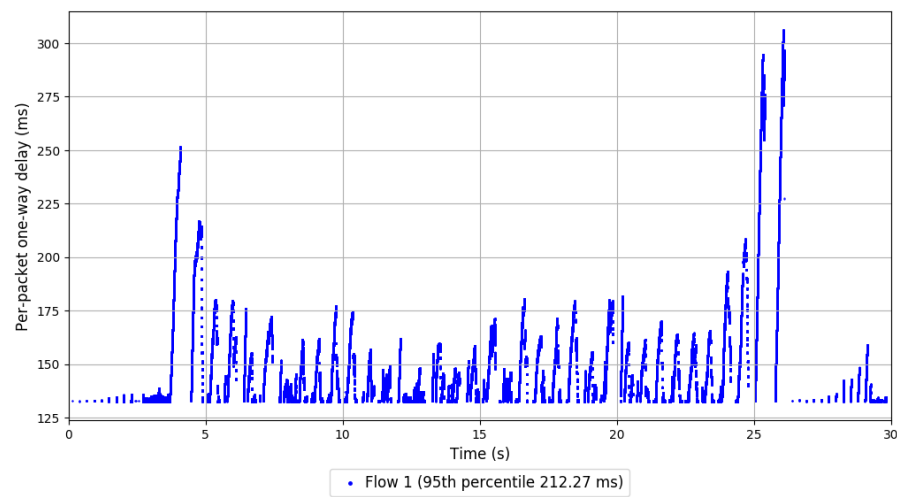
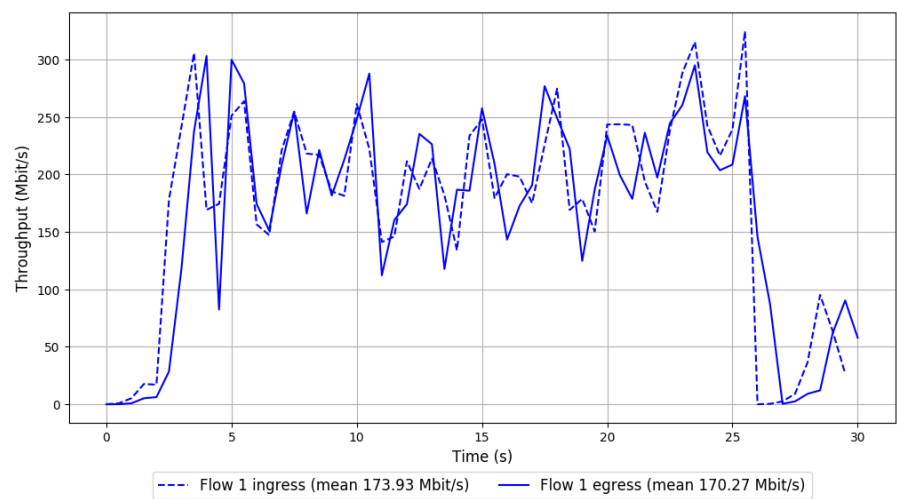
-- Flow 1:

Average throughput: 170.27 Mbit/s

95th percentile per-packet one-way delay: 212.272 ms

Loss rate: 2.10%

Run 1: Report of Verus — Data Link

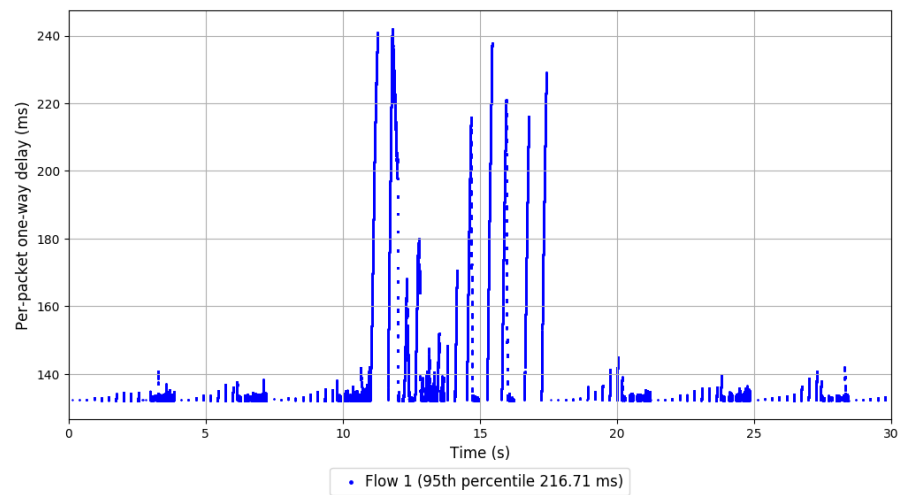
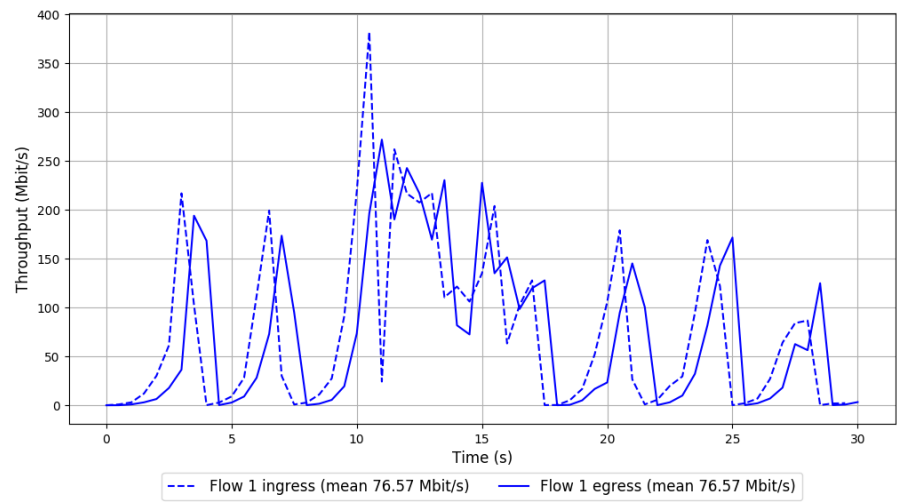


Run 2: Statistics of Verus

Start at: 2019-01-21 16:15:22  
End at: 2019-01-21 16:15:52  
Local clock offset: -0.151 ms  
Remote clock offset: -0.336 ms

# Below is generated by plot.py at 2019-01-21 20:33:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 76.57 Mbit/s  
95th percentile per-packet one-way delay: 216.714 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 76.57 Mbit/s  
95th percentile per-packet one-way delay: 216.714 ms  
Loss rate: 0.00%

Run 2: Report of Verus — Data Link





Run 3: Statistics of Verus

Start at: 2019-01-21 16:48:21

End at: 2019-01-21 16:48:51

Local clock offset: 0.078 ms

Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2019-01-21 20:33:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.57 Mbit/s

95th percentile per-packet one-way delay: 168.553 ms

Loss rate: 0.00%

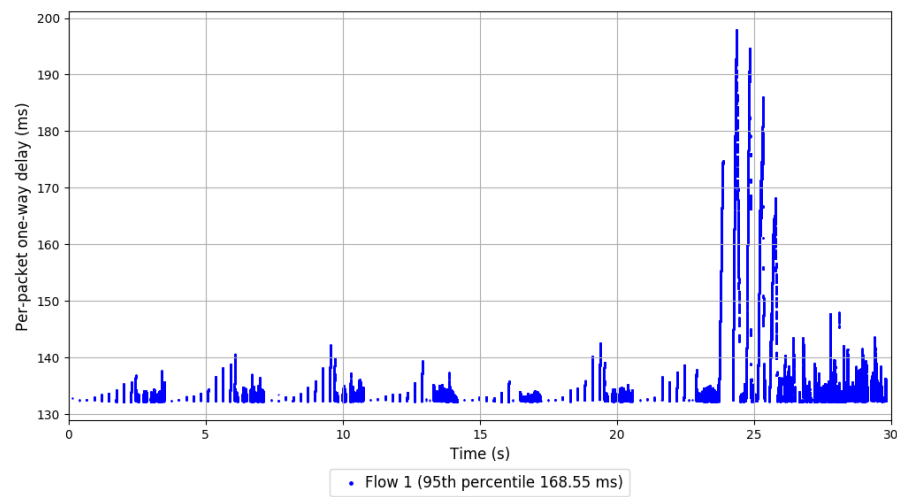
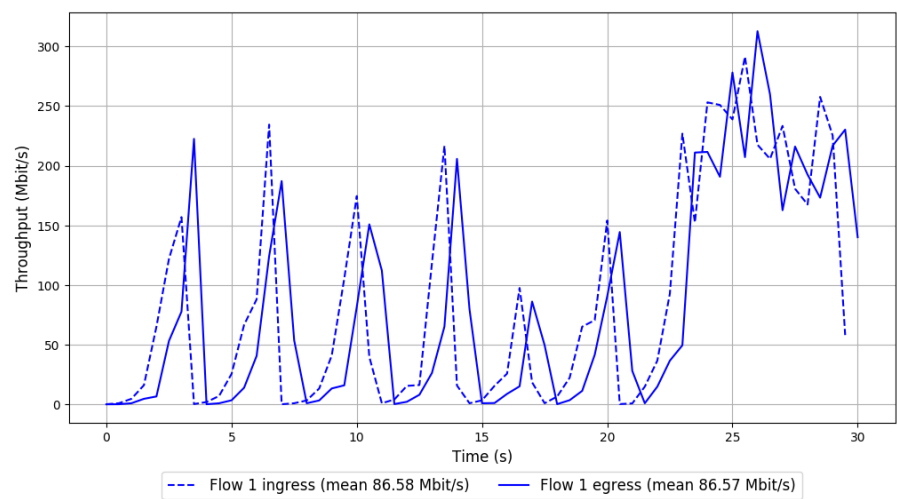
-- Flow 1:

Average throughput: 86.57 Mbit/s

95th percentile per-packet one-way delay: 168.553 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-01-21 17:21:16

End at: 2019-01-21 17:21:46

Local clock offset: 0.114 ms

Remote clock offset: -0.2 ms

# Below is generated by plot.py at 2019-01-21 20:33:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 187.22 Mbit/s

95th percentile per-packet one-way delay: 241.907 ms

Loss rate: 0.95%

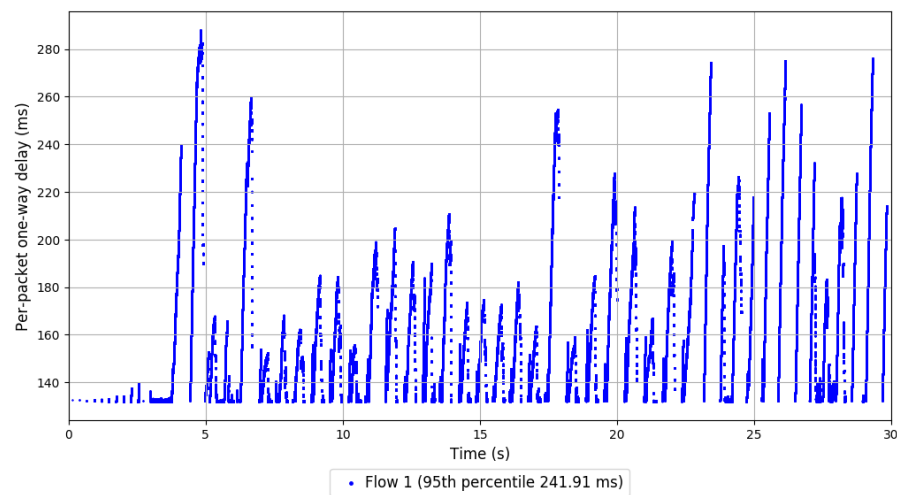
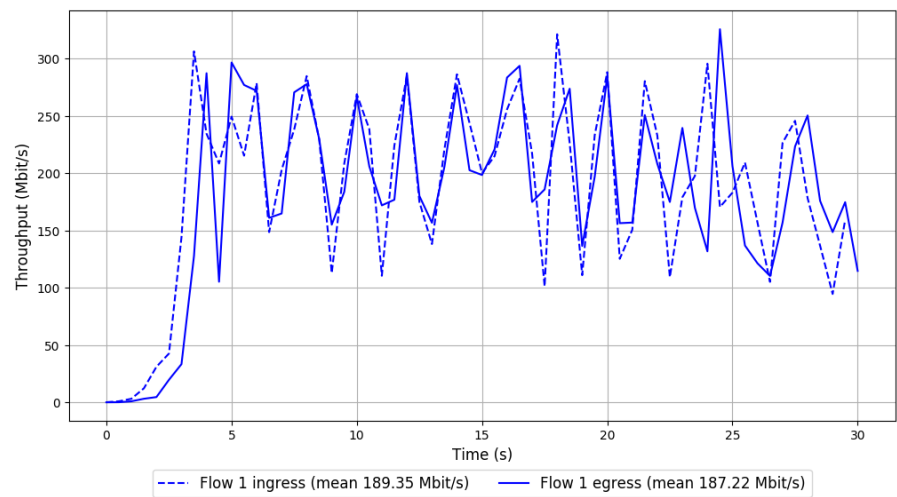
-- Flow 1:

Average throughput: 187.22 Mbit/s

95th percentile per-packet one-way delay: 241.907 ms

Loss rate: 0.95%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-01-21 17:54:30

End at: 2019-01-21 17:55:00

Local clock offset: -0.606 ms

Remote clock offset: 0.208 ms

# Below is generated by plot.py at 2019-01-21 20:33:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 158.79 Mbit/s

95th percentile per-packet one-way delay: 258.167 ms

Loss rate: 1.84%

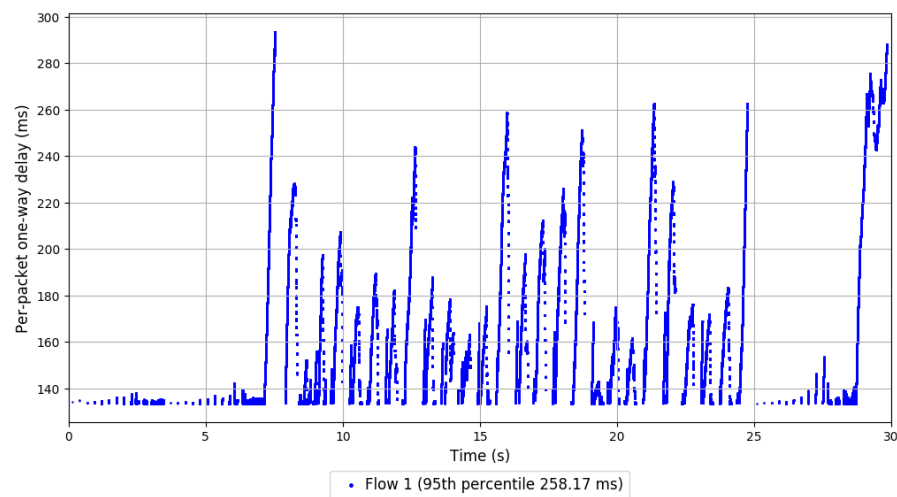
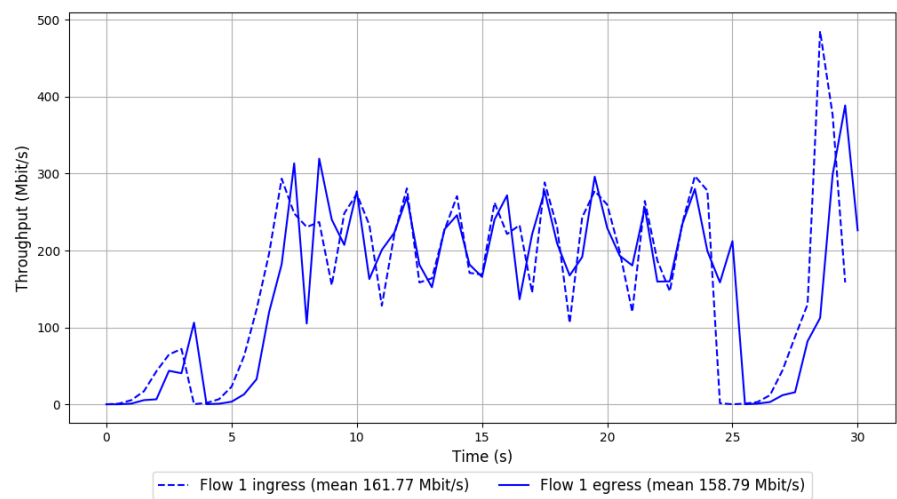
-- Flow 1:

Average throughput: 158.79 Mbit/s

95th percentile per-packet one-way delay: 258.167 ms

Loss rate: 1.84%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-01-21 15:51:48

End at: 2019-01-21 15:52:18

Local clock offset: -0.077 ms

Remote clock offset: 0.017 ms

# Below is generated by plot.py at 2019-01-21 20:35:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 363.62 Mbit/s

95th percentile per-packet one-way delay: 134.369 ms

Loss rate: 0.08%

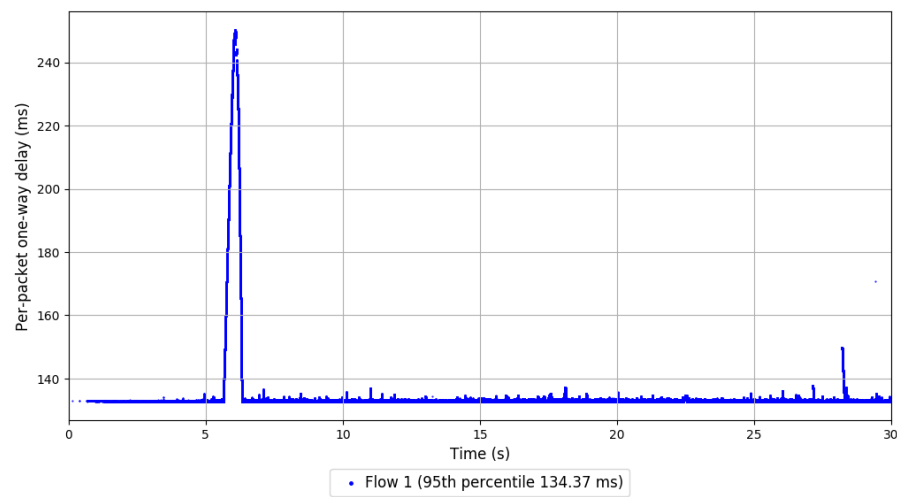
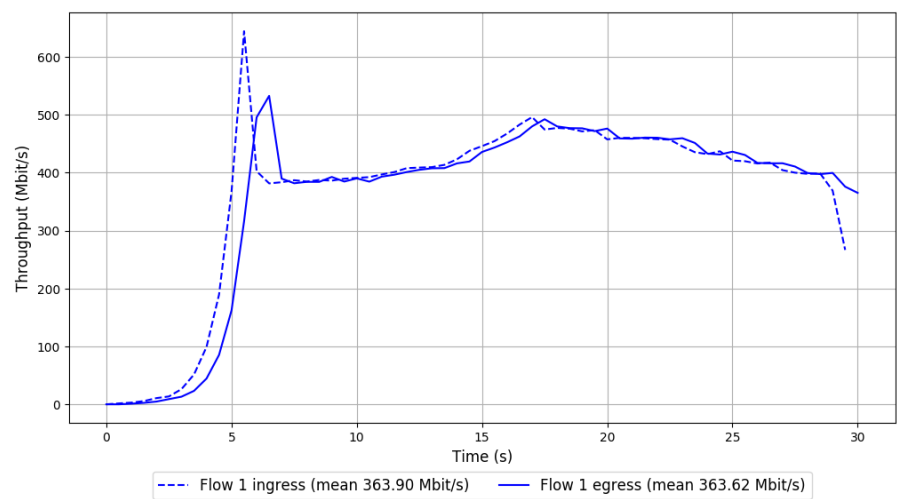
-- Flow 1:

Average throughput: 363.62 Mbit/s

95th percentile per-packet one-way delay: 134.369 ms

Loss rate: 0.08%

Run 1: Report of PCC-Vivace — Data Link



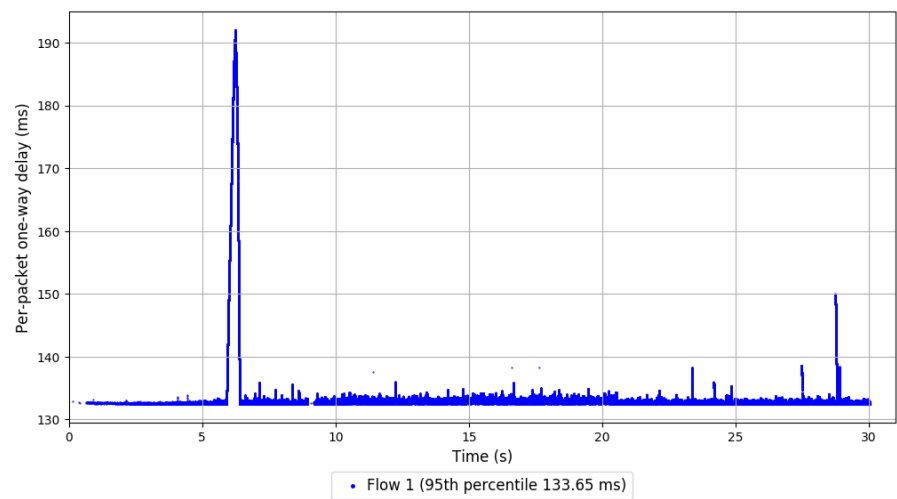
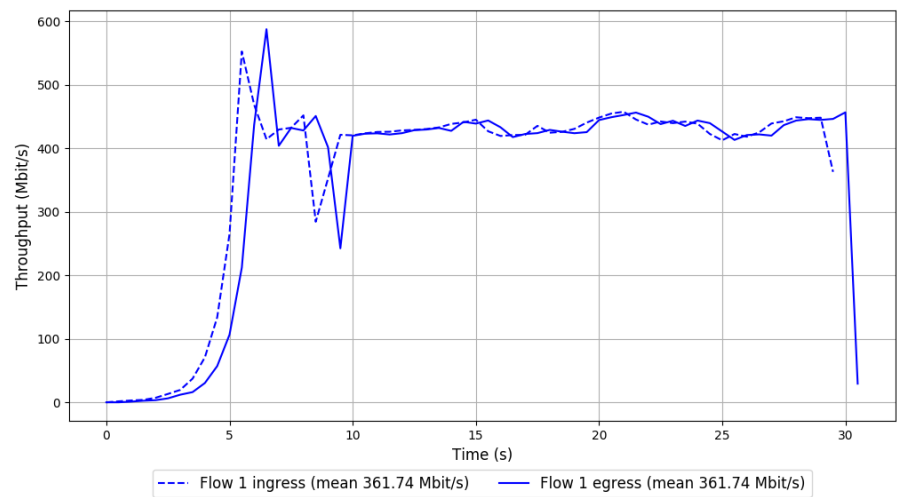


Run 2: Statistics of PCC-Vivace

Start at: 2019-01-21 16:24:46  
End at: 2019-01-21 16:25:16  
Local clock offset: 0.151 ms  
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2019-01-21 20:36:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 361.74 Mbit/s  
95th percentile per-packet one-way delay: 133.646 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 361.74 Mbit/s  
95th percentile per-packet one-way delay: 133.646 ms  
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-01-21 16:57:57

End at: 2019-01-21 16:58:27

Local clock offset: -0.553 ms

Remote clock offset: 0.036 ms

# Below is generated by plot.py at 2019-01-21 20:36:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 329.65 Mbit/s

95th percentile per-packet one-way delay: 134.079 ms

Loss rate: 0.00%

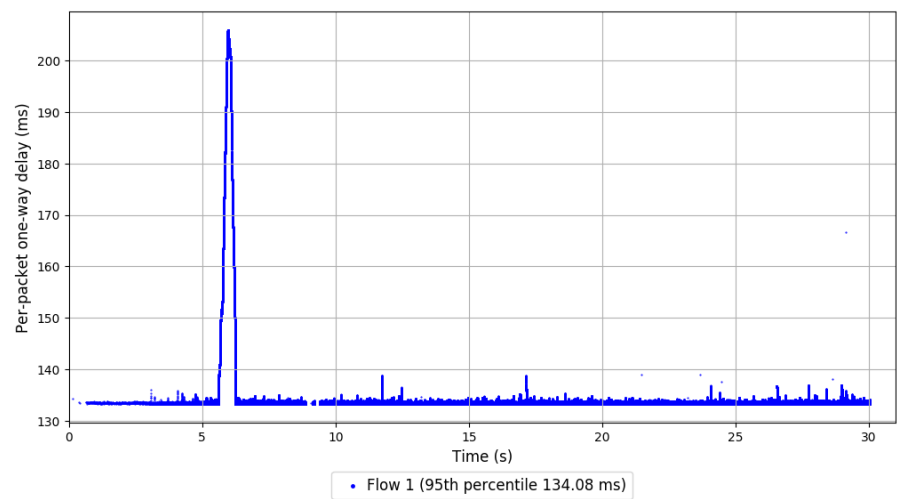
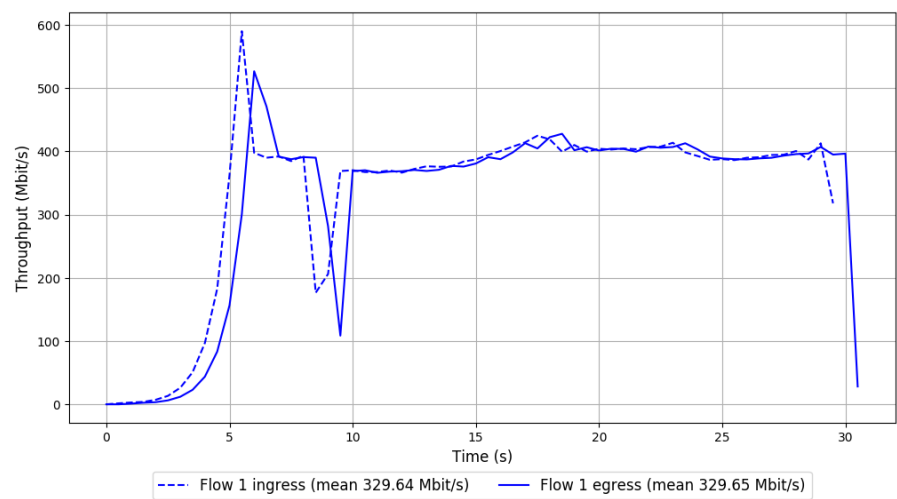
-- Flow 1:

Average throughput: 329.65 Mbit/s

95th percentile per-packet one-way delay: 134.079 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-01-21 17:31:33

End at: 2019-01-21 17:32:03

Local clock offset: -0.59 ms

Remote clock offset: 0.035 ms

# Below is generated by plot.py at 2019-01-21 20:36:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 341.67 Mbit/s

95th percentile per-packet one-way delay: 134.158 ms

Loss rate: 0.00%

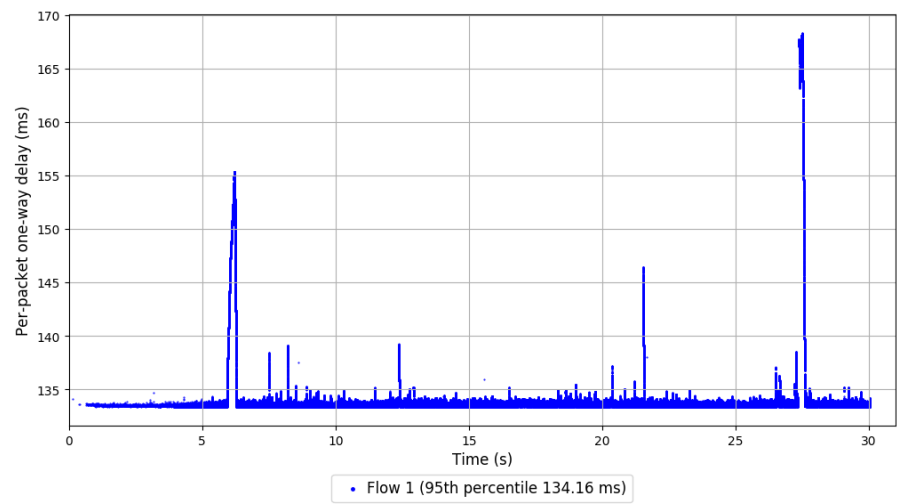
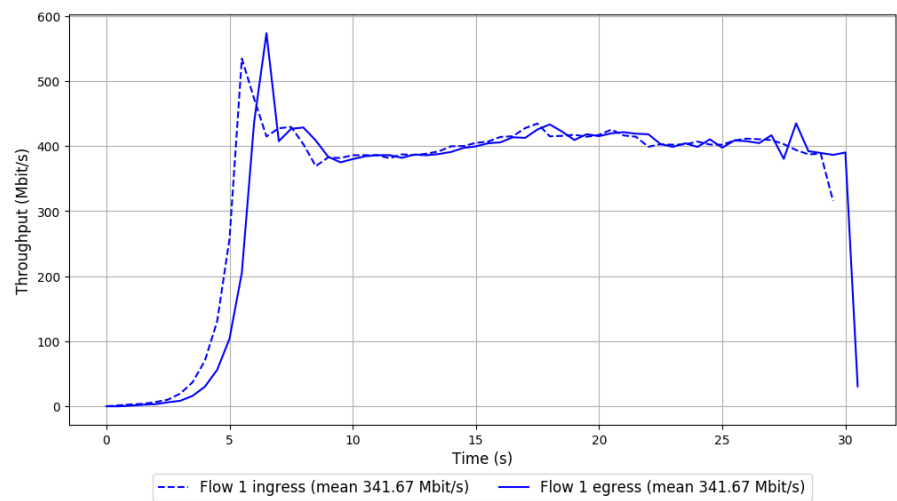
-- Flow 1:

Average throughput: 341.67 Mbit/s

95th percentile per-packet one-way delay: 134.158 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-01-21 18:03:57

End at: 2019-01-21 18:04:27

Local clock offset: -0.242 ms

Remote clock offset: 0.089 ms

# Below is generated by plot.py at 2019-01-21 20:36:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 353.68 Mbit/s

95th percentile per-packet one-way delay: 140.639 ms

Loss rate: 0.28%

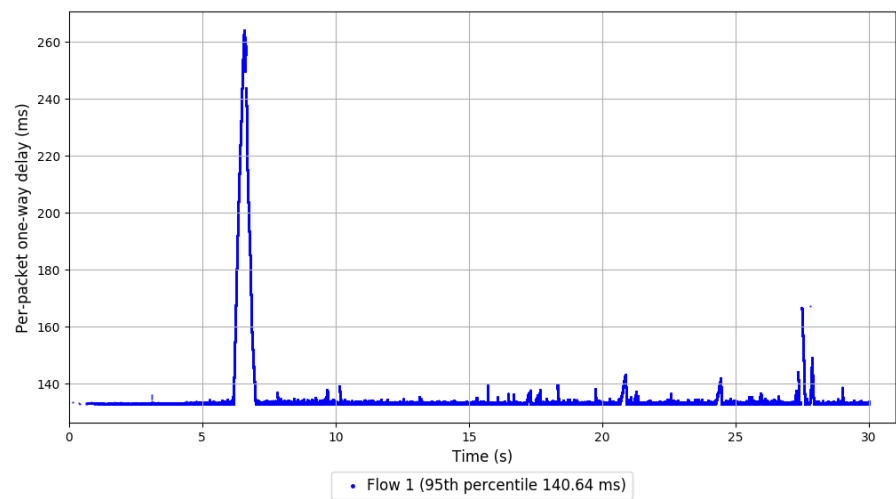
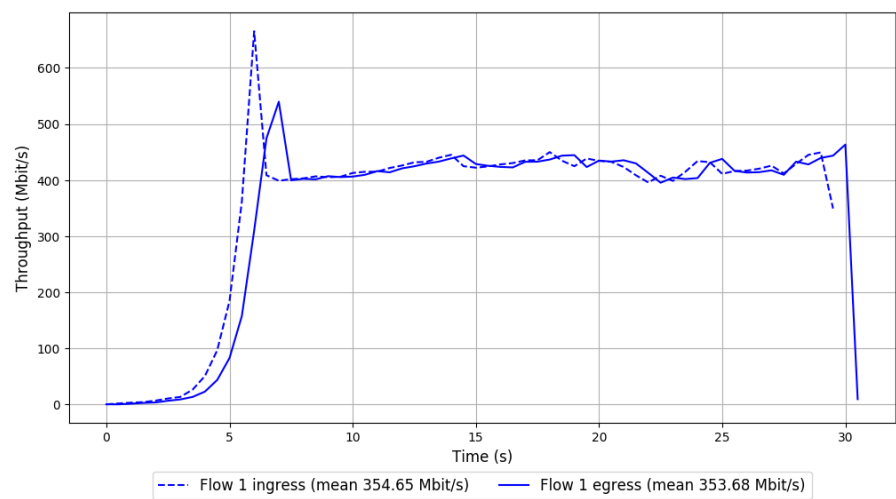
-- Flow 1:

Average throughput: 353.68 Mbit/s

95th percentile per-packet one-way delay: 140.639 ms

Loss rate: 0.28%

Run 5: Report of PCC-Vivace — Data Link





Run 1: Statistics of WebRTC media

Start at: 2019-01-21 16:08:57

End at: 2019-01-21 16:09:27

Local clock offset: 0.017 ms

Remote clock offset: 0.088 ms

# Below is generated by plot.py at 2019-01-21 20:36:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 133.483 ms

Loss rate: 0.00%

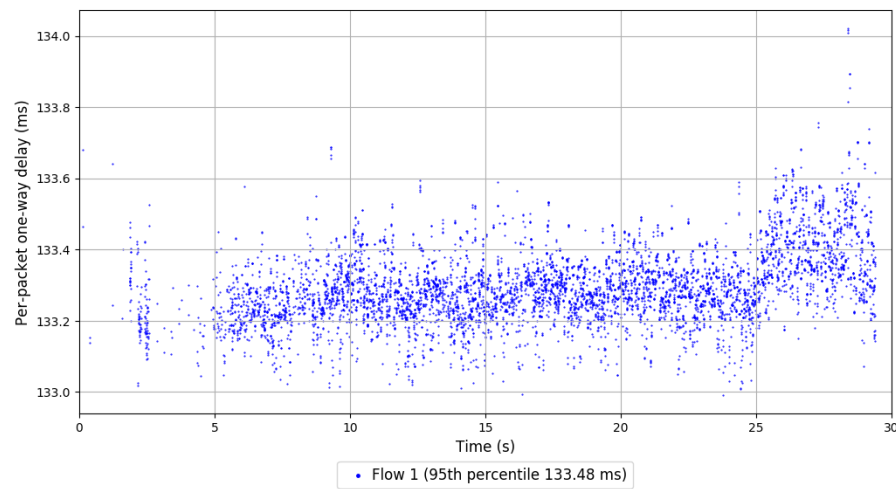
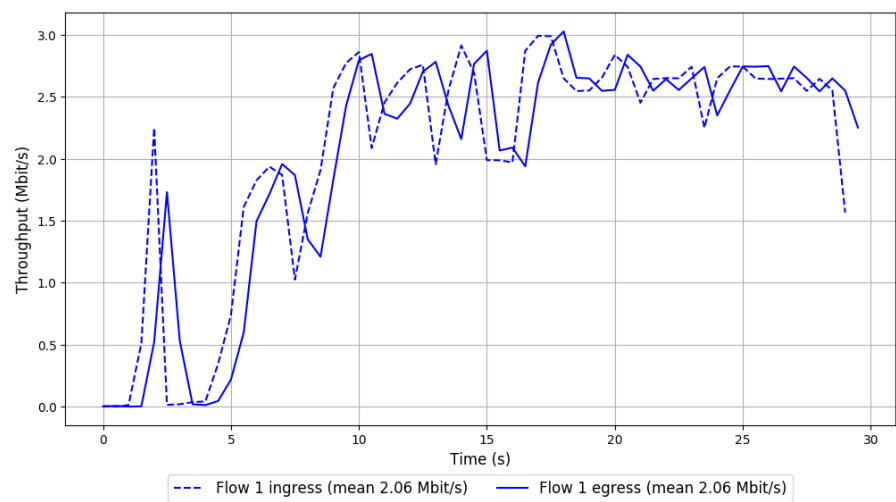
-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 133.483 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

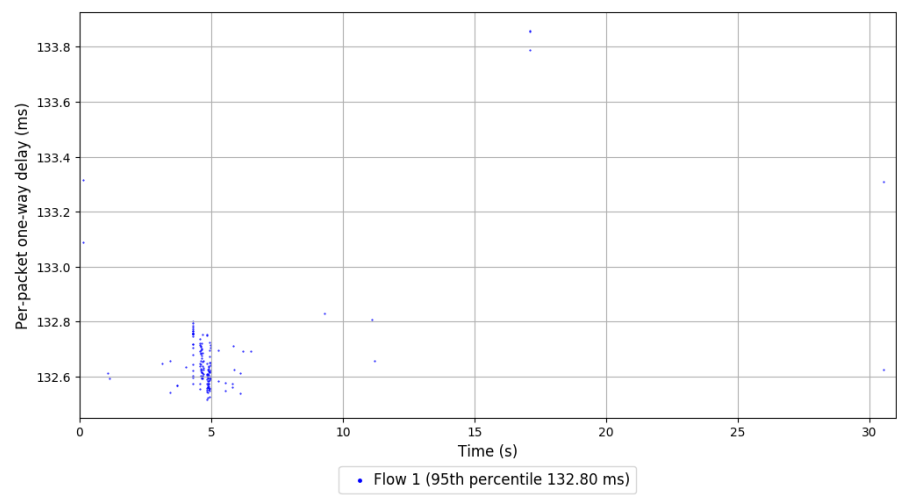
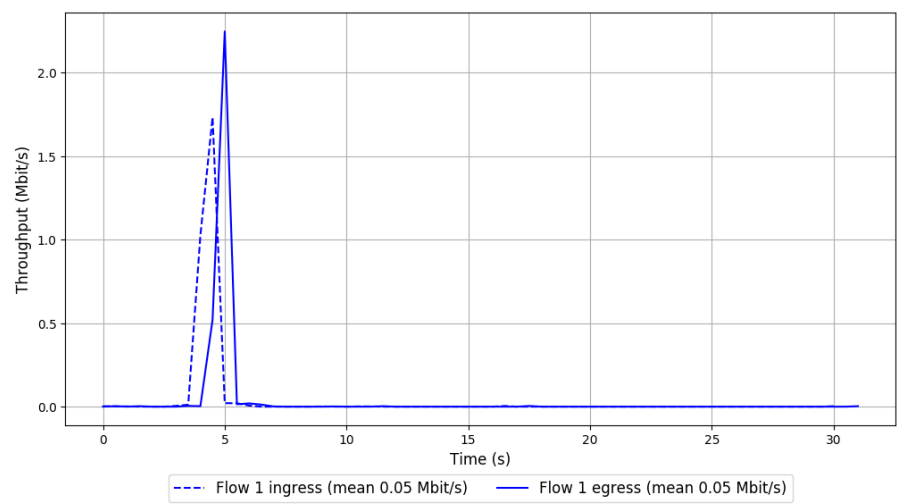


Run 2: Statistics of WebRTC media

Start at: 2019-01-21 16:42:13  
End at: 2019-01-21 16:42:43  
Local clock offset: 0.276 ms  
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2019-01-21 20:36:09  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 132.801 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 132.801 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-01-21 17:15:33

End at: 2019-01-21 17:16:03

Local clock offset: 0.233 ms

Remote clock offset: 0.03 ms

# Below is generated by plot.py at 2019-01-21 20:36:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 132.875 ms

Loss rate: 0.00%

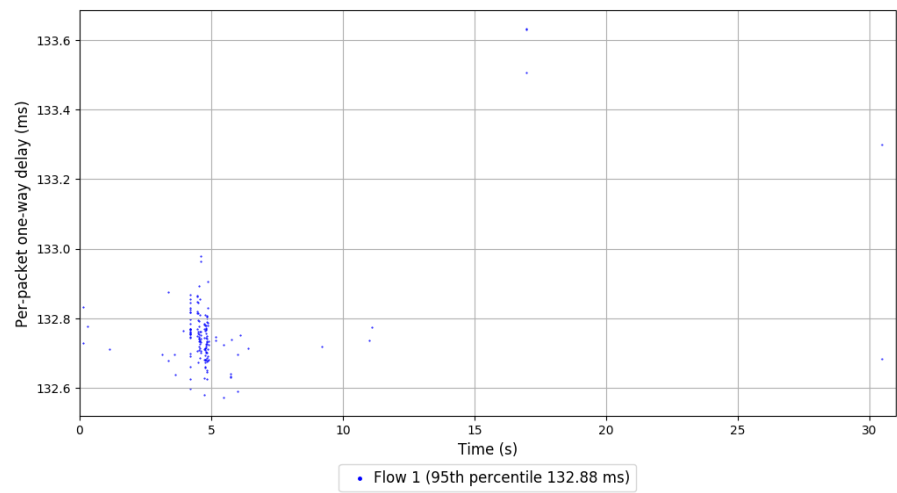
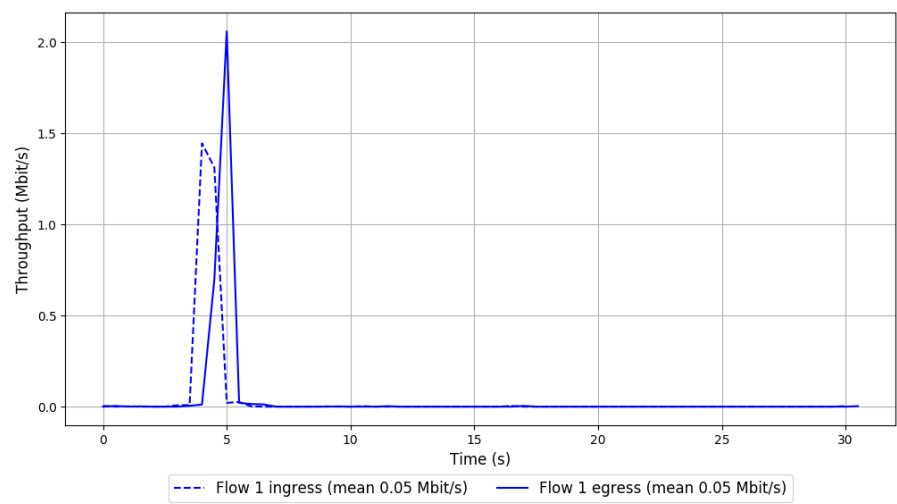
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 132.875 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-01-21 17:48:42

End at: 2019-01-21 17:49:12

Local clock offset: -0.191 ms

Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2019-01-21 20:36:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 133.727 ms

Loss rate: 0.00%

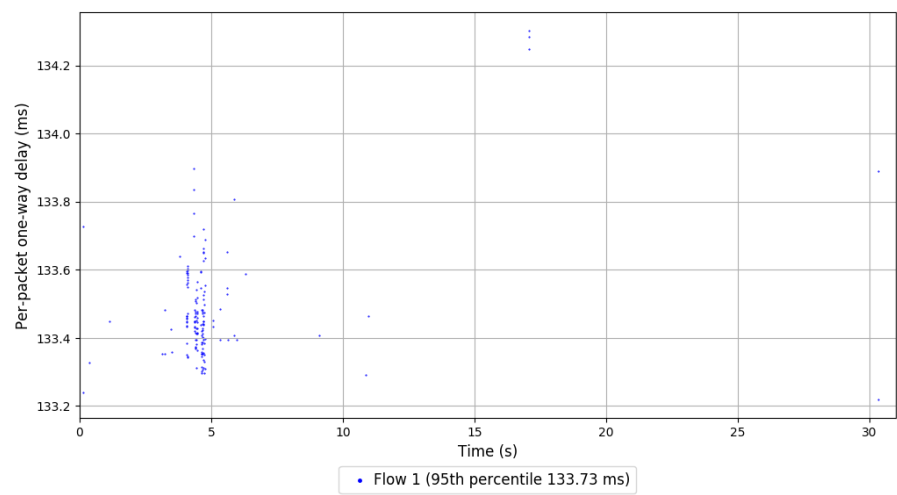
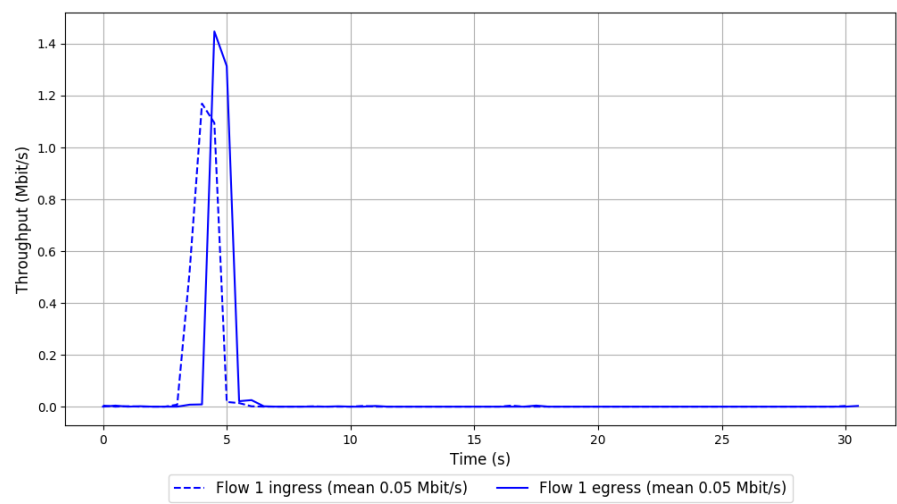
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 133.727 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link





Run 5: Statistics of WebRTC media

Start at: 2019-01-21 18:20:57

End at: 2019-01-21 18:21:27

Local clock offset: -0.56 ms

Remote clock offset: 0.048 ms

# Below is generated by plot.py at 2019-01-21 20:36:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 133.647 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 133.647 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

