

## Pantheon Report

Generated at 2019-01-18 22:24:45 (UTC).

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

Repeated the test of 21 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

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

### System info:

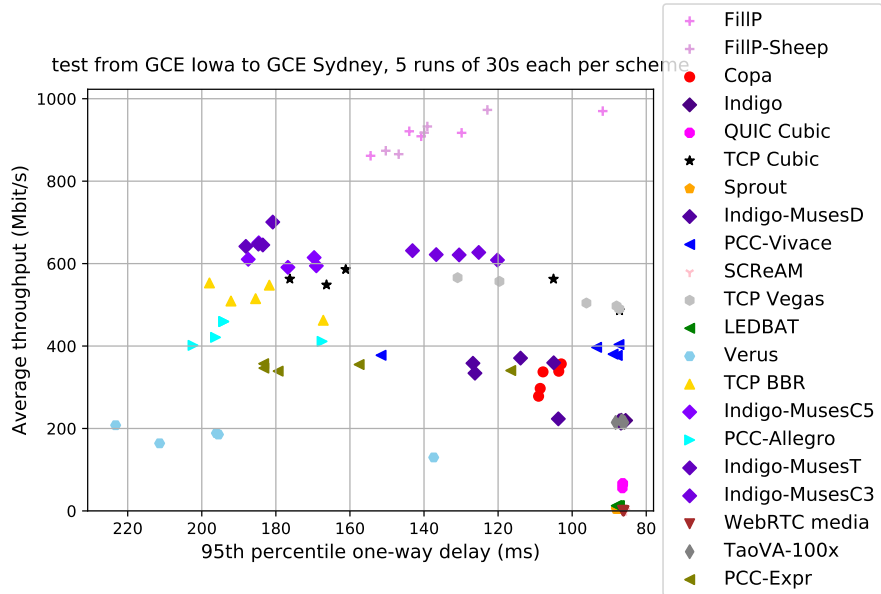
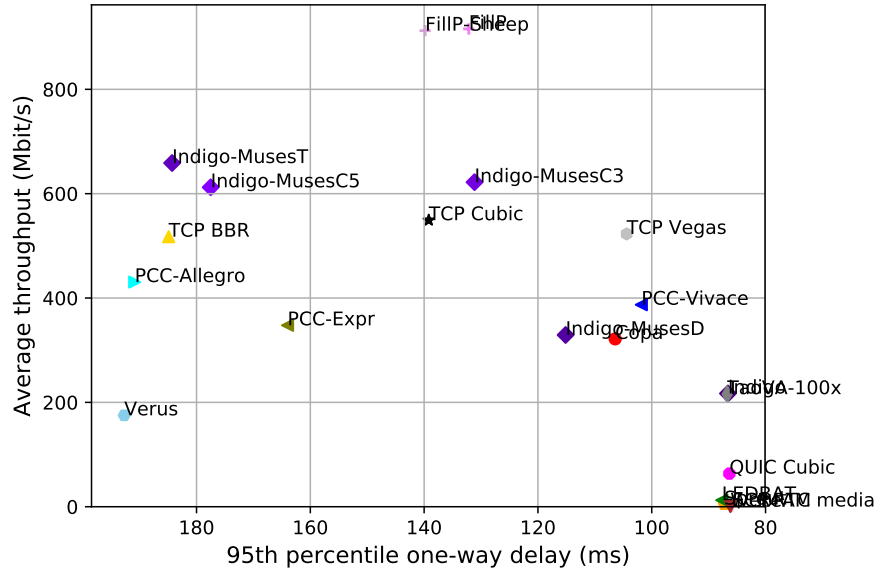
```
Linux 4.15.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

```
branch: muses @ c80a283586bf7b0cc1fe08c69c8f60d56498f81c
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ c3eee875824760ec5b2fd207fefe166e1afe2170
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	517.55	184.90	2.06
Copa	5	321.65	106.43	0.49
TCP Cubic	5	549.17	139.19	0.69
FillP	5	915.72	132.15	1.96
FillP-Sheep	5	912.45	139.82	1.79
Indigo	5	217.03	86.61	0.65
Indigo-MusesC3	5	622.00	131.14	0.73
Indigo-MusesC5	5	612.22	177.51	1.65
Indigo-MusesD	5	329.17	115.14	1.40
Indigo-MusesT	4	658.74	184.29	5.04
LEDBAT	5	12.53	87.69	1.15
PCC-Allegro	5	430.56	190.86	2.54
PCC-Expr	5	347.70	164.01	2.72
QUIC Cubic	4	63.47	86.36	0.89
SCReAM	5	0.22	85.88	0.61
Sprout	5	4.29	87.28	0.62
TaoVA-100x	5	215.75	86.74	0.58
TCP Vegas	5	522.84	104.40	0.54
Verus	5	175.14	192.71	2.87
PCC-Vivace	5	387.11	101.83	0.65
WebRTC media	5	0.36	86.19	0.22

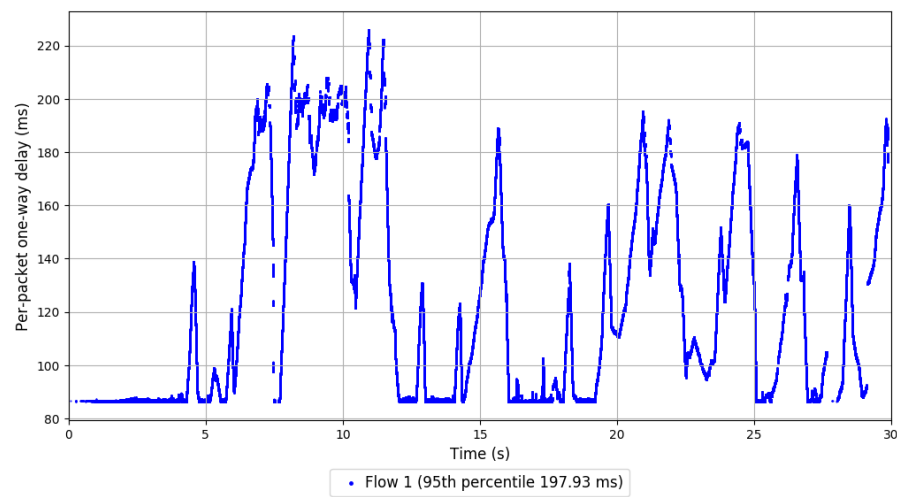
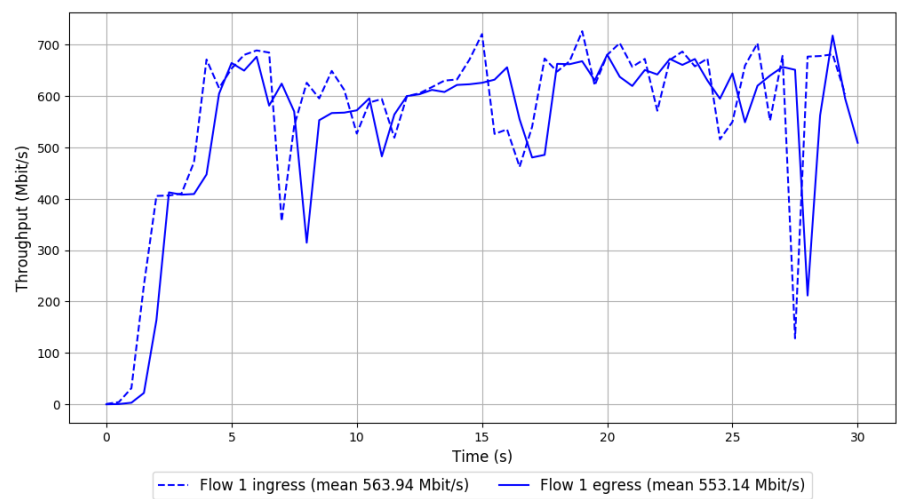


Run 1: Statistics of TCP BBR

Start at: 2019-01-18 17:53:32  
End at: 2019-01-18 17:54:02  
Local clock offset: 15.024 ms  
Remote clock offset: 13.381 ms

# Below is generated by plot.py at 2019-01-18 20:35:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 553.14 Mbit/s  
95th percentile per-packet one-way delay: 197.927 ms  
Loss rate: 2.48%  
-- Flow 1:  
Average throughput: 553.14 Mbit/s  
95th percentile per-packet one-way delay: 197.927 ms  
Loss rate: 2.48%

Run 1: Report of TCP BBR — Data Link

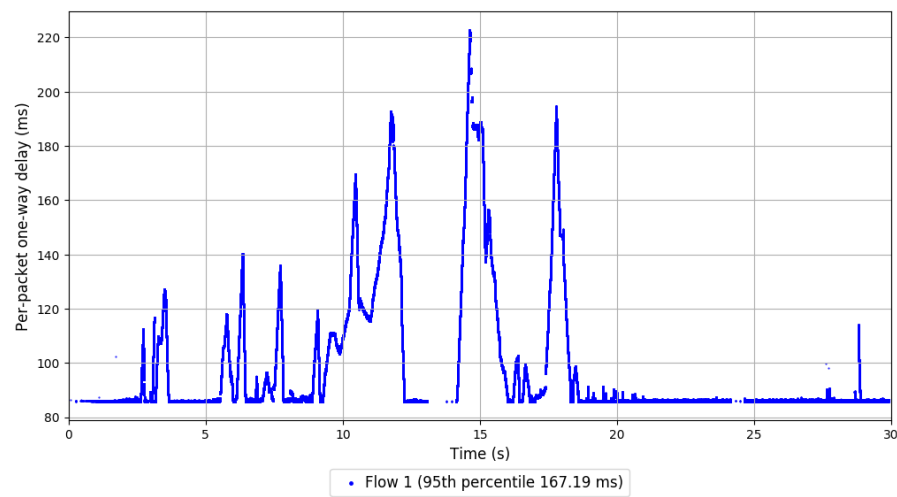
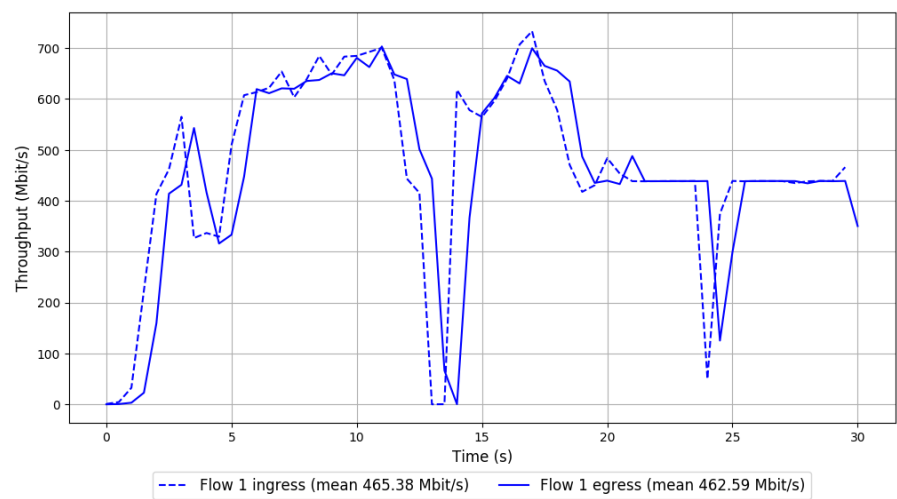


Run 2: Statistics of TCP BBR

Start at: 2019-01-18 18:25:30  
End at: 2019-01-18 18:26:00  
Local clock offset: 28.737 ms  
Remote clock offset: 25.785 ms

# Below is generated by plot.py at 2019-01-18 20:35:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 462.59 Mbit/s  
95th percentile per-packet one-way delay: 167.195 ms  
Loss rate: 1.18%  
-- Flow 1:  
Average throughput: 462.59 Mbit/s  
95th percentile per-packet one-way delay: 167.195 ms  
Loss rate: 1.18%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-01-18 18:57:43

End at: 2019-01-18 18:58:13

Local clock offset: 16.219 ms

Remote clock offset: 14.47 ms

# Below is generated by plot.py at 2019-01-18 20:35:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 515.01 Mbit/s

95th percentile per-packet one-way delay: 185.472 ms

Loss rate: 2.51%

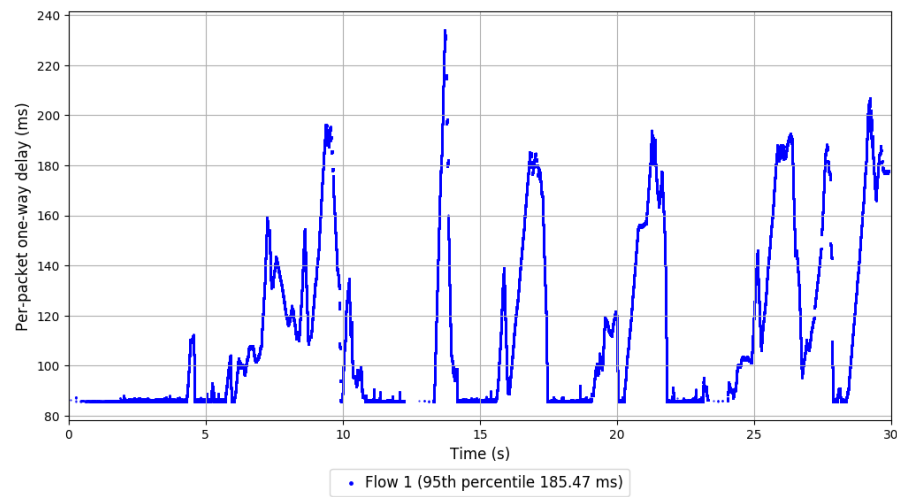
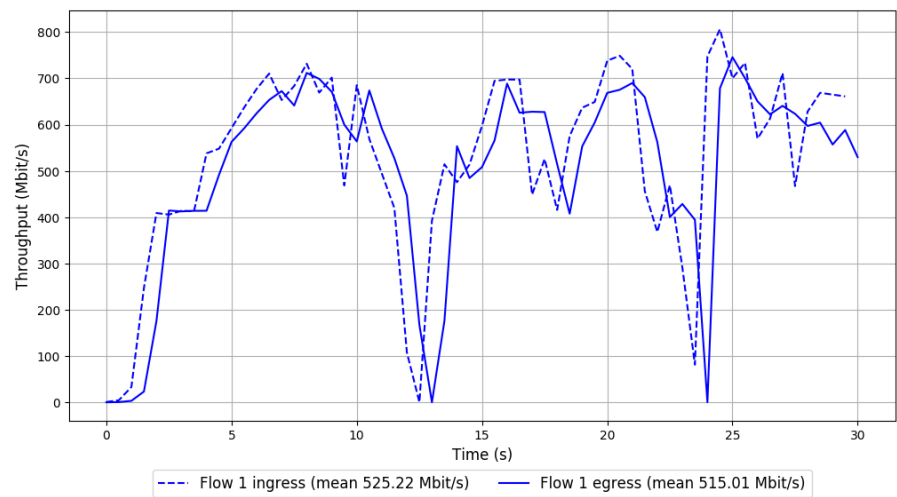
-- Flow 1:

Average throughput: 515.01 Mbit/s

95th percentile per-packet one-way delay: 185.472 ms

Loss rate: 2.51%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-01-18 19:30:07

End at: 2019-01-18 19:30:37

Local clock offset: 8.005 ms

Remote clock offset: 6.975 ms

# Below is generated by plot.py at 2019-01-18 20:35:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 509.23 Mbit/s

95th percentile per-packet one-way delay: 192.124 ms

Loss rate: 2.61%

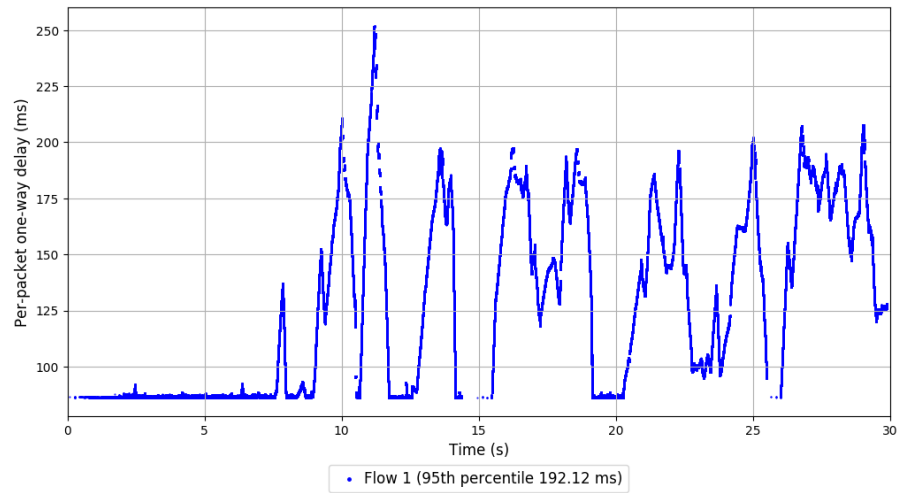
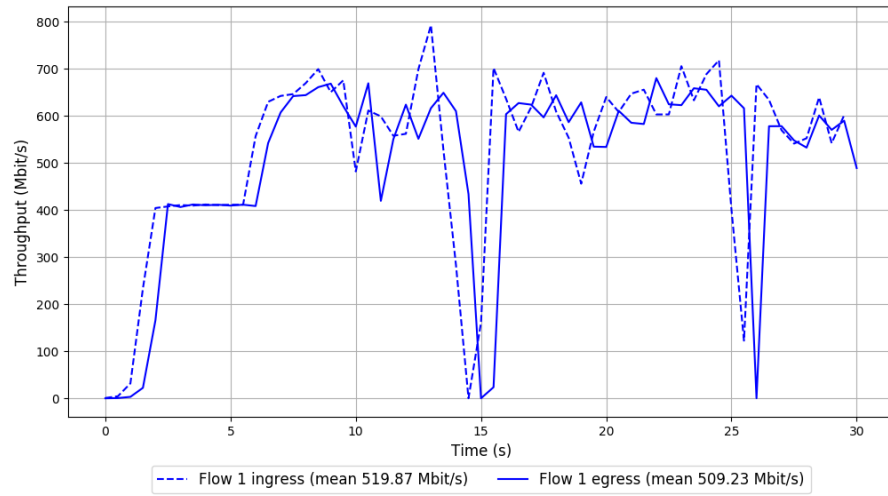
-- Flow 1:

Average throughput: 509.23 Mbit/s

95th percentile per-packet one-way delay: 192.124 ms

Loss rate: 2.61%

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





Run 5: Statistics of TCP BBR

Start at: 2019-01-18 20:02:29

End at: 2019-01-18 20:02:59

Local clock offset: 2.477 ms

Remote clock offset: 3.371 ms

# Below is generated by plot.py at 2019-01-18 20:35:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 547.76 Mbit/s

95th percentile per-packet one-way delay: 181.759 ms

Loss rate: 1.51%

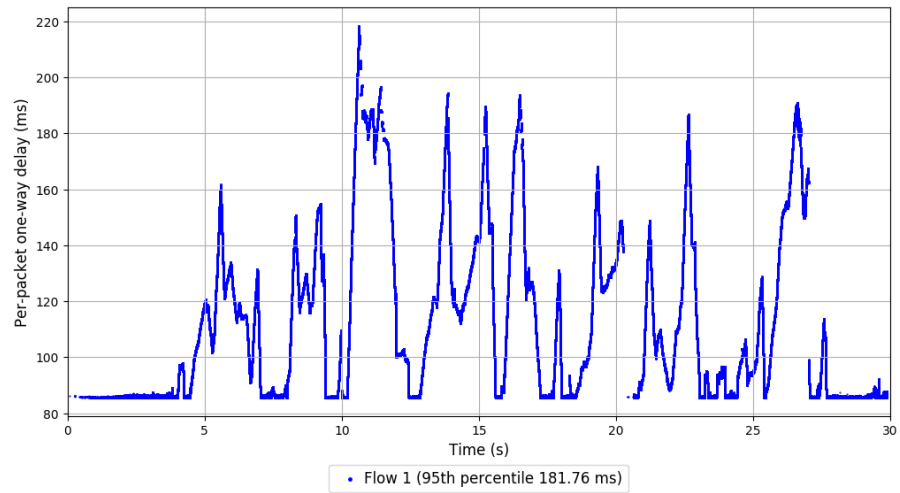
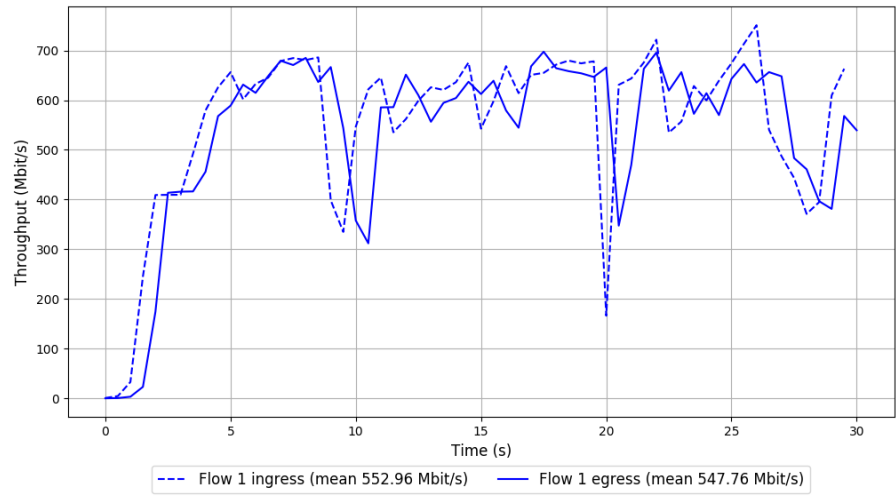
-- Flow 1:

Average throughput: 547.76 Mbit/s

95th percentile per-packet one-way delay: 181.759 ms

Loss rate: 1.51%

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



Run 1: Statistics of Copa

Start at: 2019-01-18 17:32:55

End at: 2019-01-18 17:33:25

Local clock offset: 4.639 ms

Remote clock offset: 6.537 ms

# Below is generated by plot.py at 2019-01-18 20:35:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 297.19 Mbit/s

95th percentile per-packet one-way delay: 108.633 ms

Loss rate: 0.27%

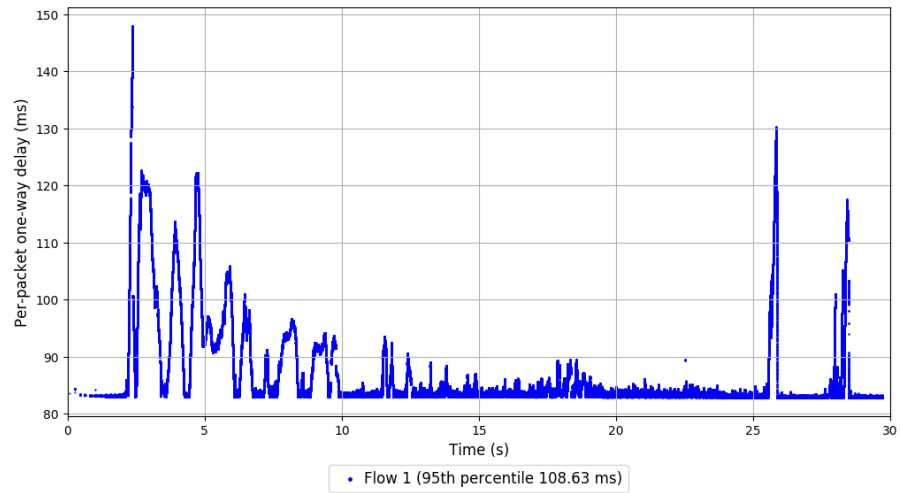
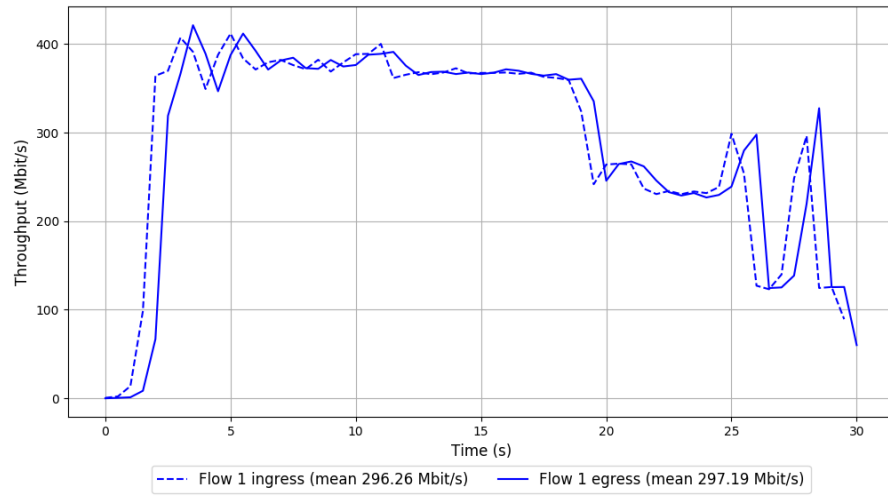
-- Flow 1:

Average throughput: 297.19 Mbit/s

95th percentile per-packet one-way delay: 108.633 ms

Loss rate: 0.27%

## Run 1: Report of Copa — Data Link

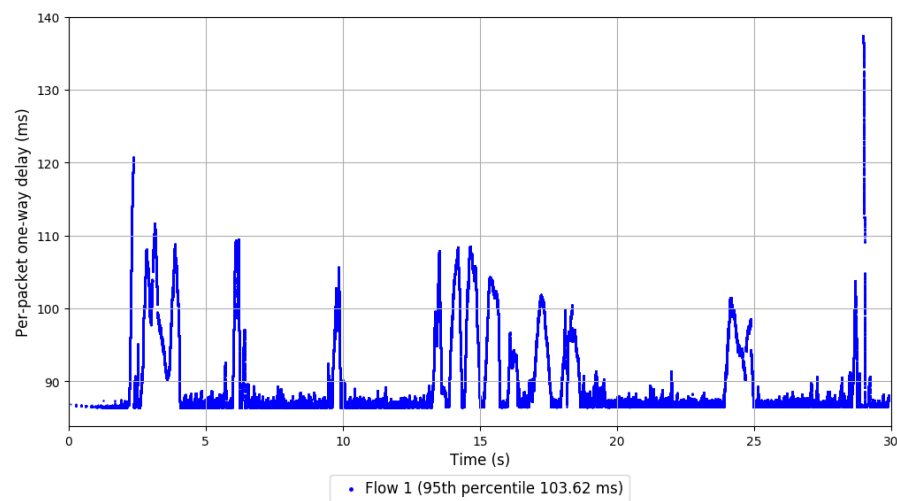
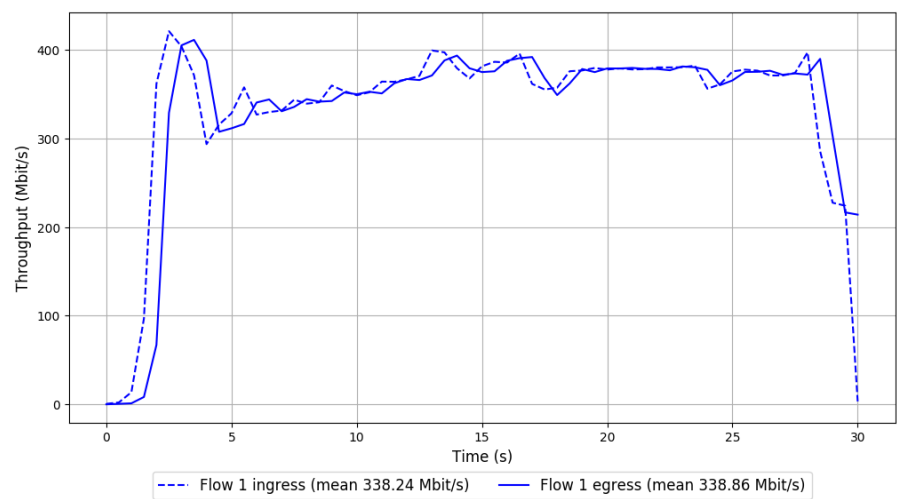


Run 2: Statistics of Copa

Start at: 2019-01-18 18:04:20  
End at: 2019-01-18 18:04:50  
Local clock offset: 28.385 ms  
Remote clock offset: 24.936 ms

# Below is generated by plot.py at 2019-01-18 20:36:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 338.86 Mbit/s  
95th percentile per-packet one-way delay: 103.619 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 338.86 Mbit/s  
95th percentile per-packet one-way delay: 103.619 ms  
Loss rate: 0.39%

Run 2: Report of Copa — Data Link

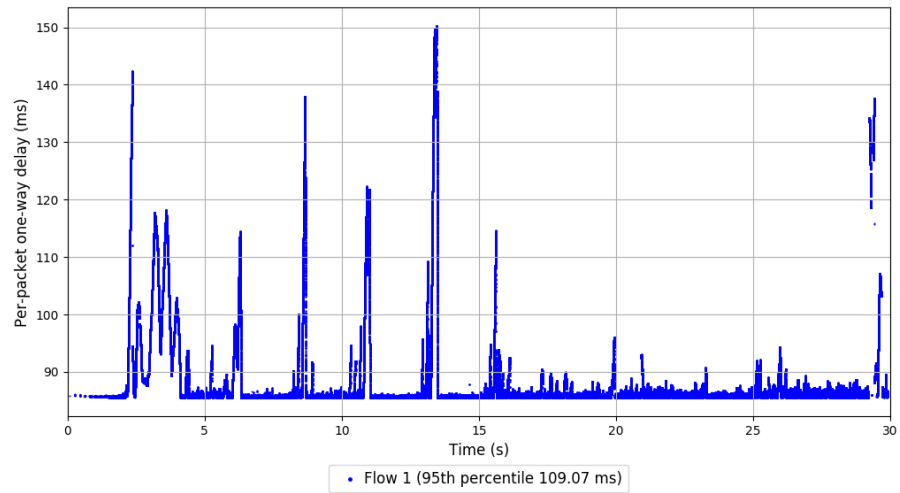
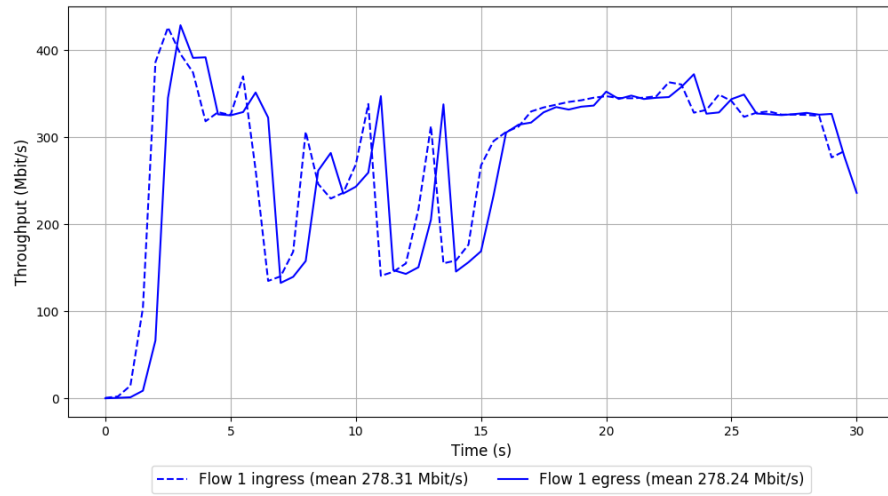


Run 3: Statistics of Copa

Start at: 2019-01-18 18:36:06  
End at: 2019-01-18 18:36:36  
Local clock offset: 40.318 ms  
Remote clock offset: 35.959 ms

# Below is generated by plot.py at 2019-01-18 20:36:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 278.24 Mbit/s  
95th percentile per-packet one-way delay: 109.067 ms  
Loss rate: 0.60%  
-- Flow 1:  
Average throughput: 278.24 Mbit/s  
95th percentile per-packet one-way delay: 109.067 ms  
Loss rate: 0.60%

### Run 3: Report of Copa — Data Link



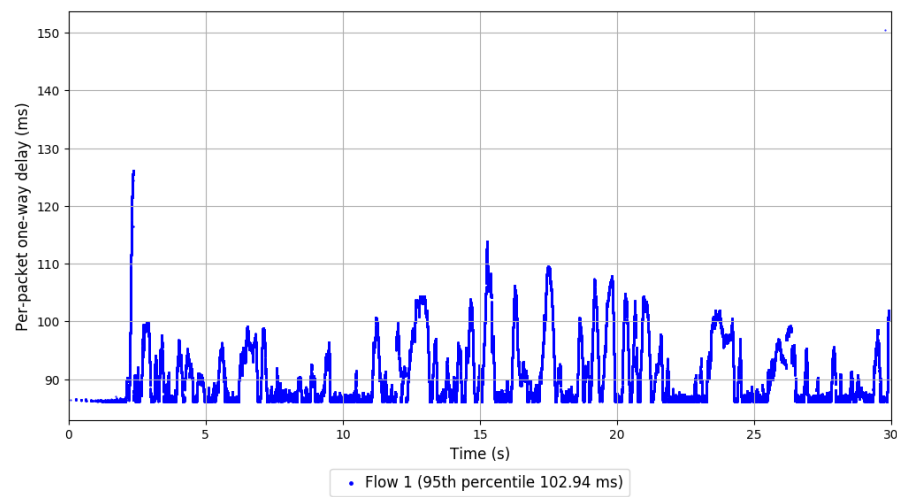
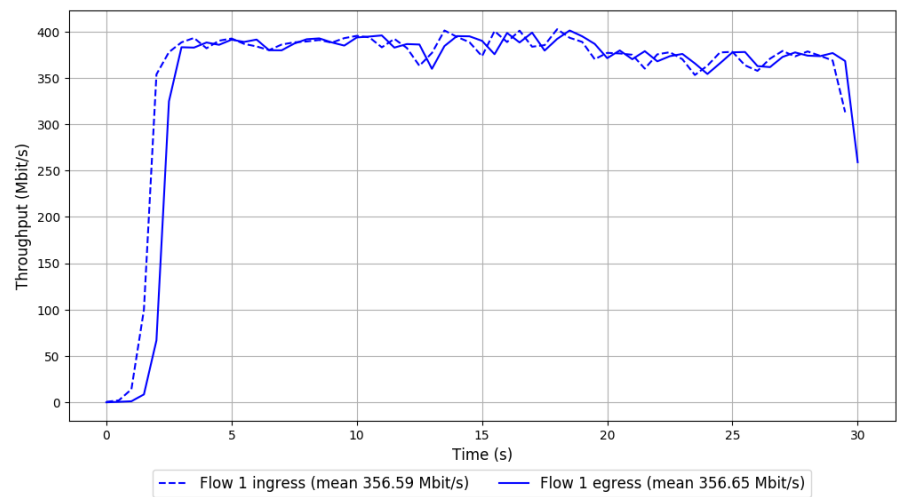


Run 4: Statistics of Copa

Start at: 2019-01-18 19:08:36  
End at: 2019-01-18 19:09:06  
Local clock offset: 19.605 ms  
Remote clock offset: 17.664 ms

# Below is generated by plot.py at 2019-01-18 20:46:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 356.65 Mbit/s  
95th percentile per-packet one-way delay: 102.945 ms  
Loss rate: 0.56%  
-- Flow 1:  
Average throughput: 356.65 Mbit/s  
95th percentile per-packet one-way delay: 102.945 ms  
Loss rate: 0.56%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-01-18 19:40:44

End at: 2019-01-18 19:41:14

Local clock offset: 8.999 ms

Remote clock offset: 8.084 ms

# Below is generated by plot.py at 2019-01-18 20:46:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 337.32 Mbit/s

95th percentile per-packet one-way delay: 107.869 ms

Loss rate: 0.61%

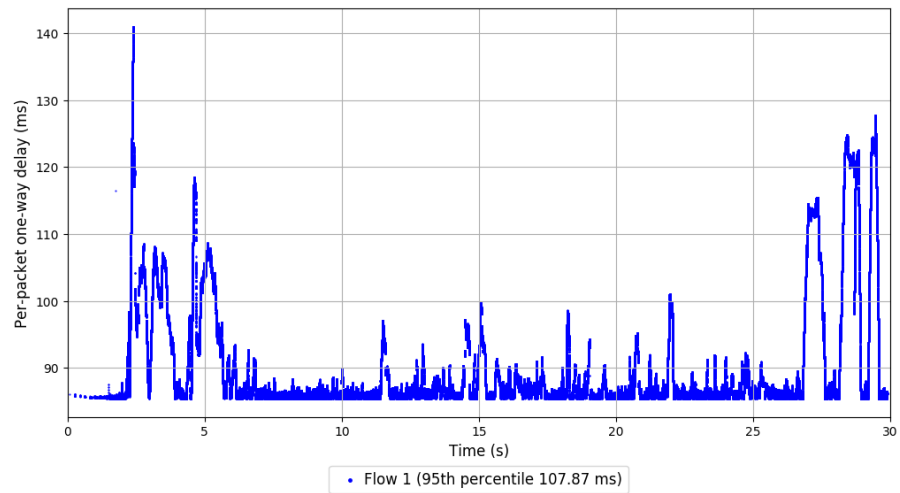
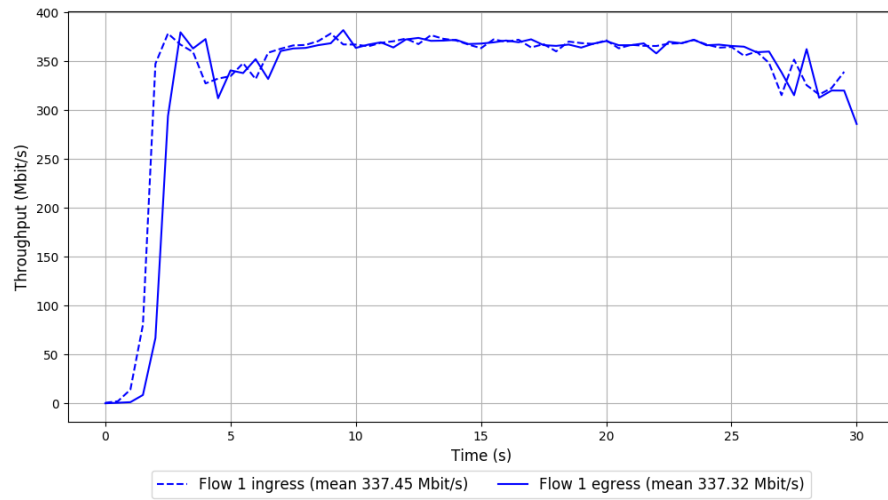
-- Flow 1:

Average throughput: 337.32 Mbit/s

95th percentile per-packet one-way delay: 107.869 ms

Loss rate: 0.61%

### Run 5: Report of Copa — Data Link

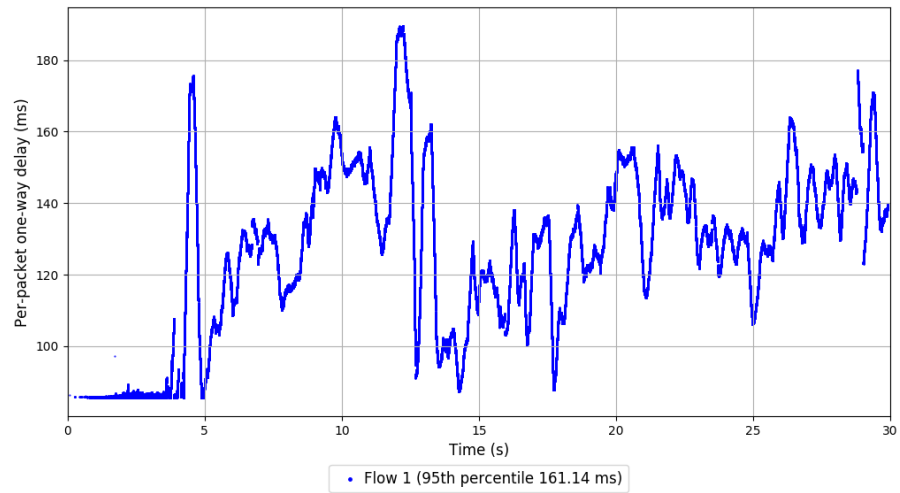
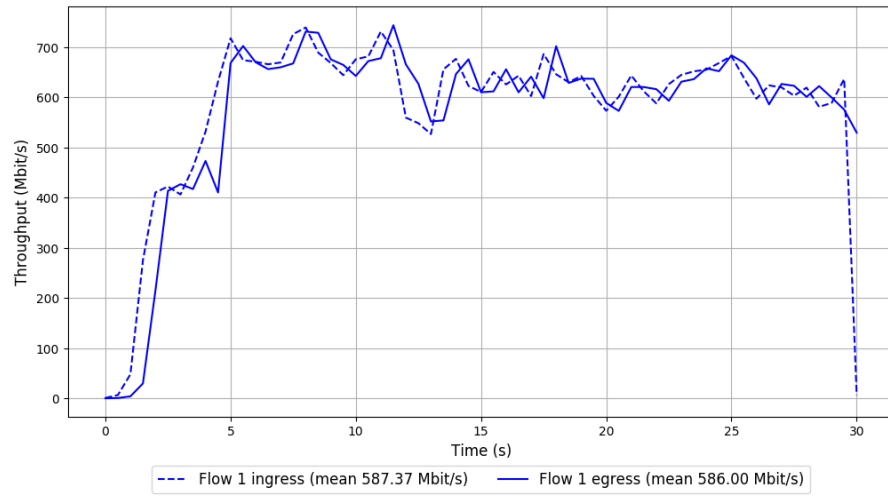


Run 1: Statistics of TCP Cubic

Start at: 2019-01-18 17:59:45  
End at: 2019-01-18 18:00:15  
Local clock offset: 22.233 ms  
Remote clock offset: 19.854 ms

# Below is generated by plot.py at 2019-01-18 20:46:42  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 586.00 Mbit/s  
95th percentile per-packet one-way delay: 161.141 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 586.00 Mbit/s  
95th percentile per-packet one-way delay: 161.141 ms  
Loss rate: 0.81%

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

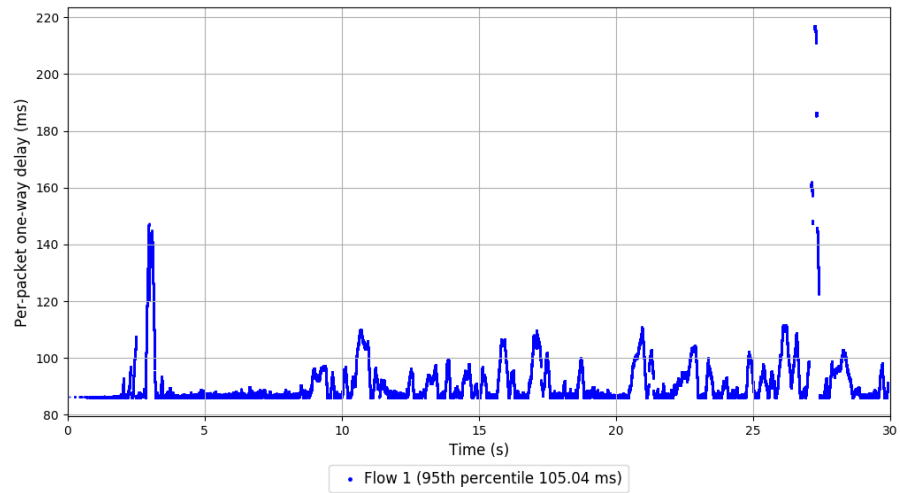
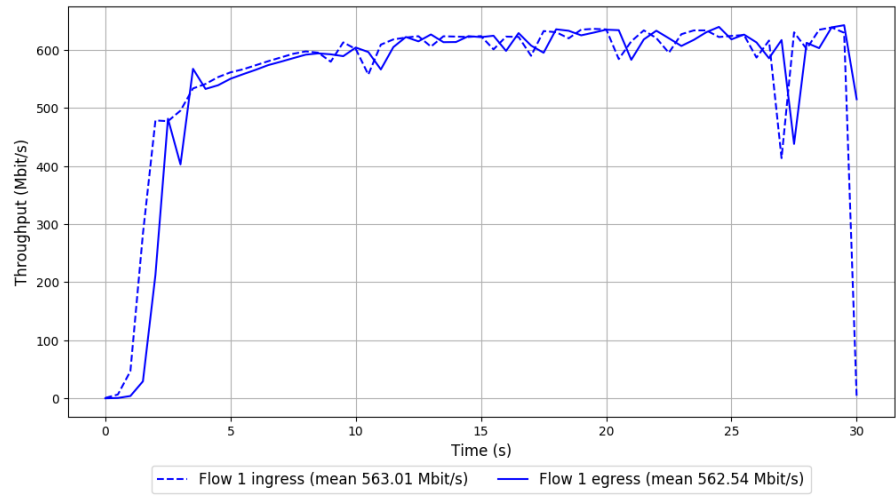


Run 2: Statistics of TCP Cubic

Start at: 2019-01-18 18:31:34  
End at: 2019-01-18 18:32:04  
Local clock offset: 35.101 ms  
Remote clock offset: 31.297 ms

# Below is generated by plot.py at 2019-01-18 20:46:42  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 562.54 Mbit/s  
95th percentile per-packet one-way delay: 105.042 ms  
Loss rate: 0.66%  
-- Flow 1:  
Average throughput: 562.54 Mbit/s  
95th percentile per-packet one-way delay: 105.042 ms  
Loss rate: 0.66%

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



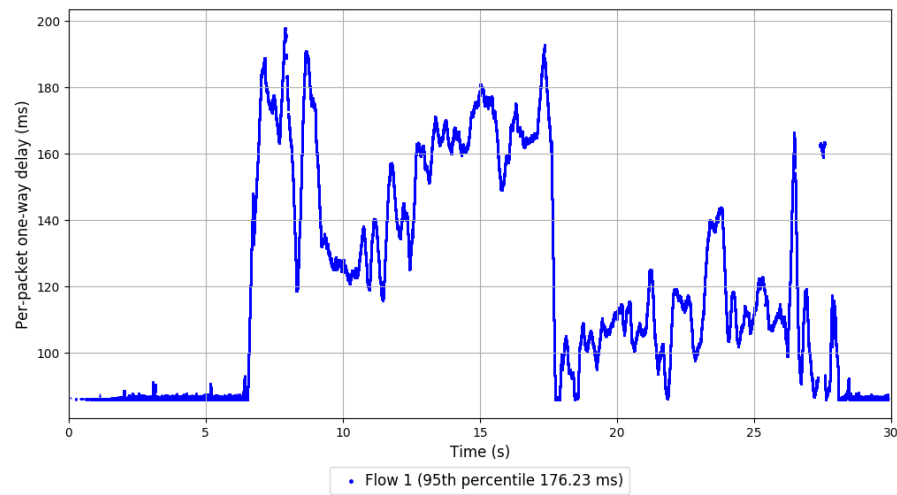
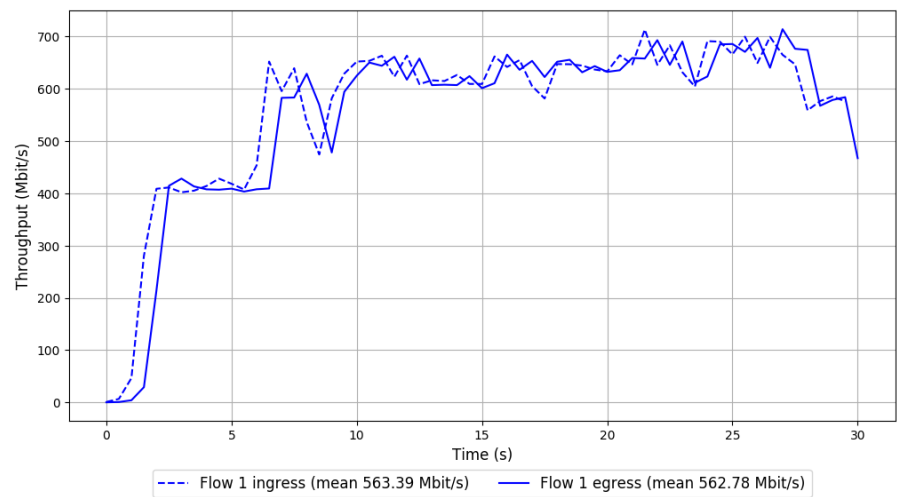


Run 3: Statistics of TCP Cubic

Start at: 2019-01-18 19:04:00  
End at: 2019-01-18 19:04:30  
Local clock offset: 17.777 ms  
Remote clock offset: 15.94 ms

# Below is generated by plot.py at 2019-01-18 20:46:42  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 562.78 Mbit/s  
95th percentile per-packet one-way delay: 176.230 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 562.78 Mbit/s  
95th percentile per-packet one-way delay: 176.230 ms  
Loss rate: 0.68%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-01-18 19:36:15

End at: 2019-01-18 19:36:45

Local clock offset: 8.41 ms

Remote clock offset: 7.368 ms

# Below is generated by plot.py at 2019-01-18 20:46:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 486.11 Mbit/s

95th percentile per-packet one-way delay: 87.213 ms

Loss rate: 0.54%

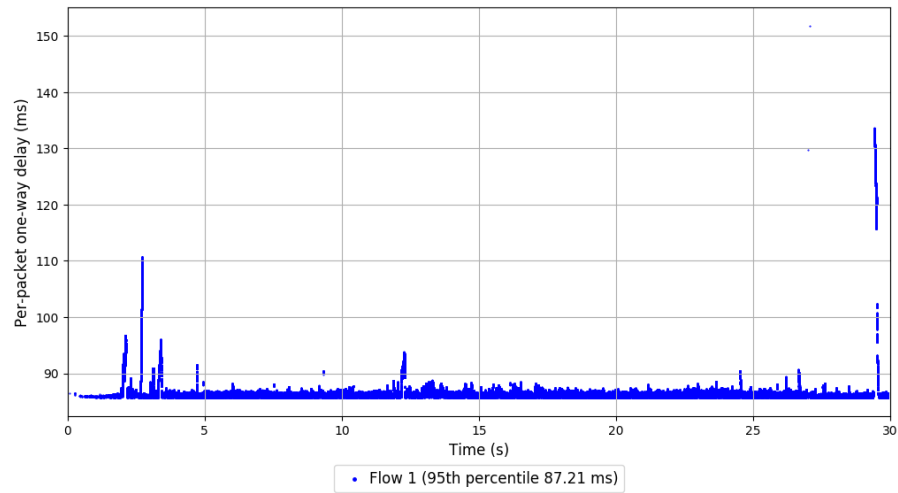
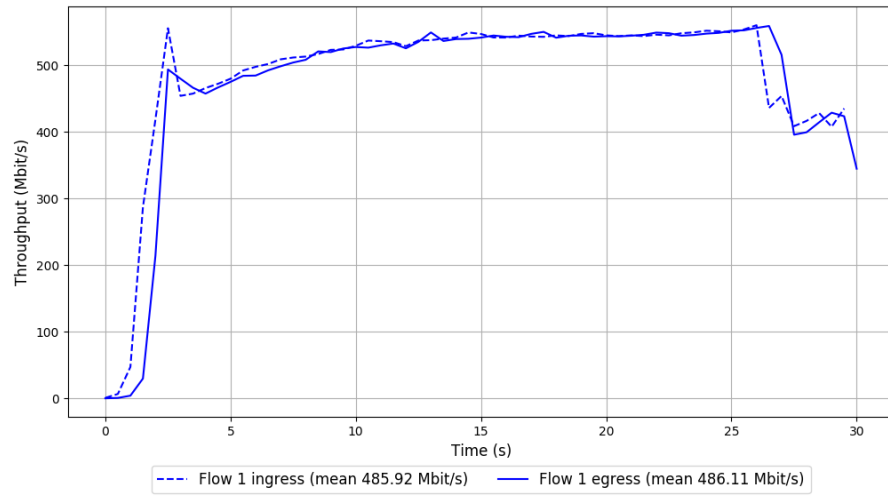
-- Flow 1:

Average throughput: 486.11 Mbit/s

95th percentile per-packet one-way delay: 87.213 ms

Loss rate: 0.54%

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



Run 5: Statistics of TCP Cubic

Start at: 2019-01-18 20:09:10

End at: 2019-01-18 20:09:40

Local clock offset: 2.64 ms

Remote clock offset: 3.467 ms

# Below is generated by plot.py at 2019-01-18 20:46:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 548.40 Mbit/s

95th percentile per-packet one-way delay: 166.325 ms

Loss rate: 0.76%

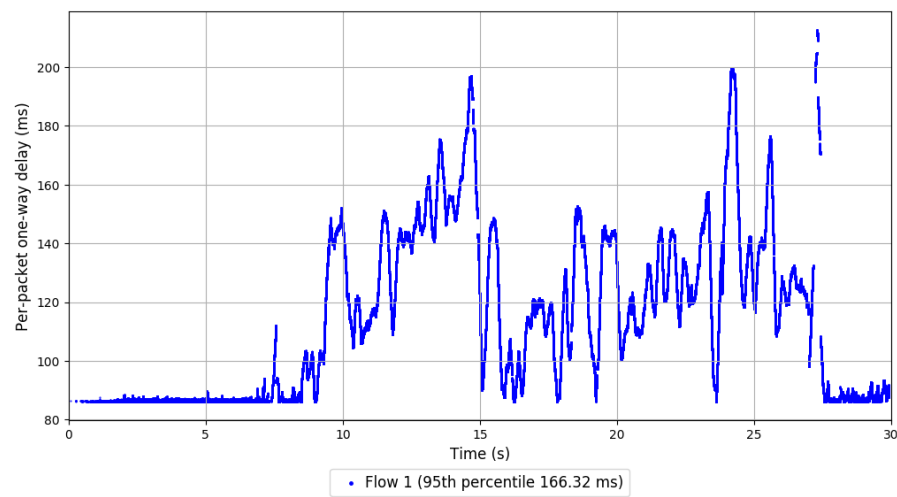
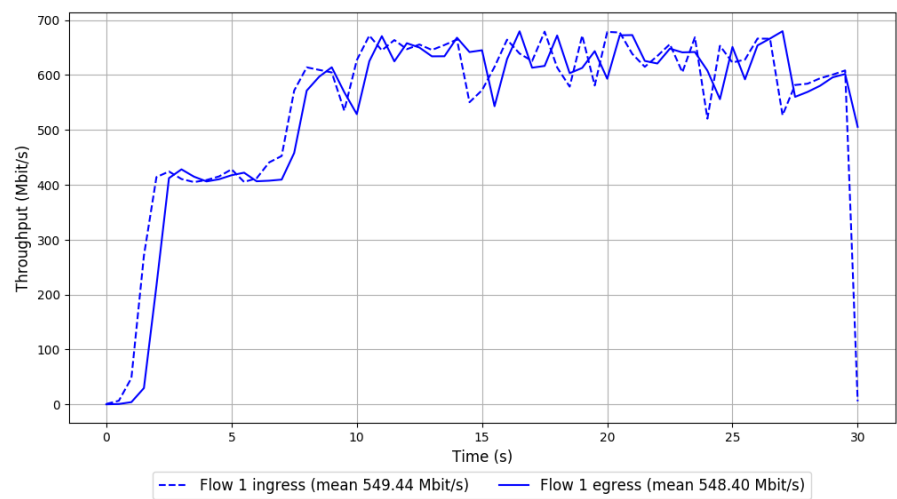
-- Flow 1:

Average throughput: 548.40 Mbit/s

95th percentile per-packet one-way delay: 166.325 ms

Loss rate: 0.76%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-01-18 17:34:34

End at: 2019-01-18 17:35:04

Local clock offset: 8.287 ms

Remote clock offset: 6.165 ms

# Below is generated by plot.py at 2019-01-18 20:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 917.20 Mbit/s

95th percentile per-packet one-way delay: 129.848 ms

Loss rate: 1.05%

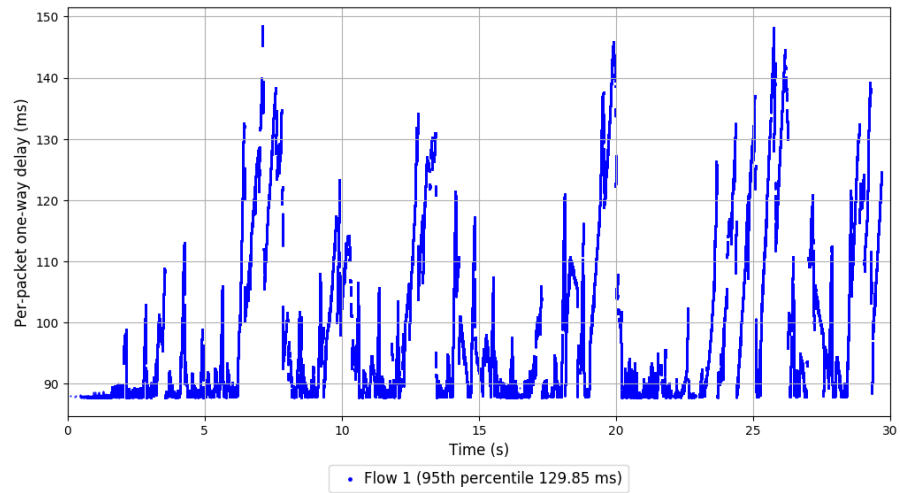
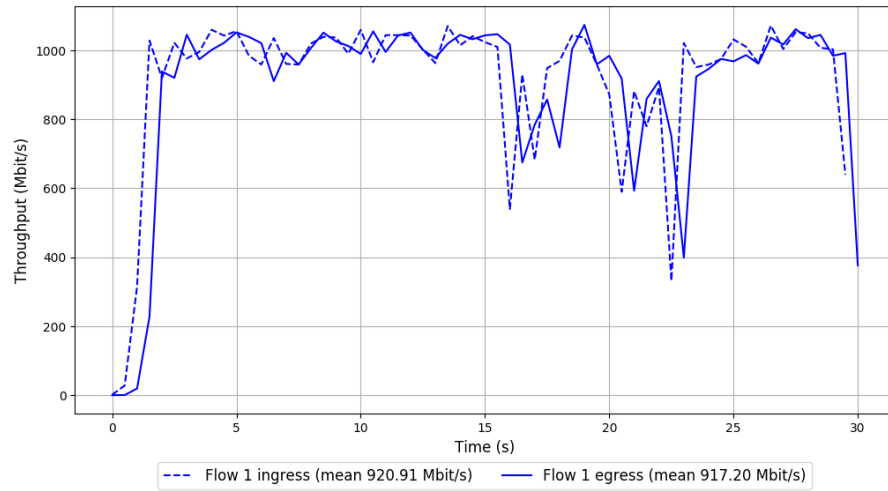
-- Flow 1:

Average throughput: 917.20 Mbit/s

95th percentile per-packet one-way delay: 129.848 ms

Loss rate: 1.05%

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



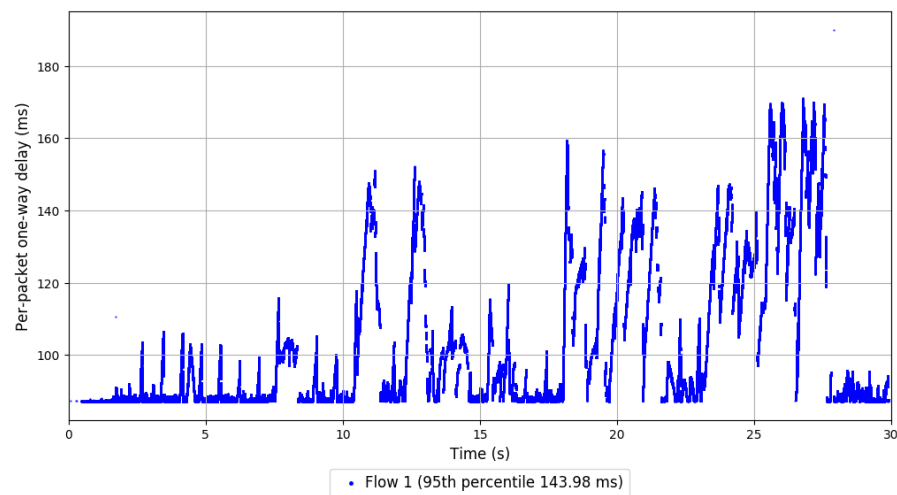
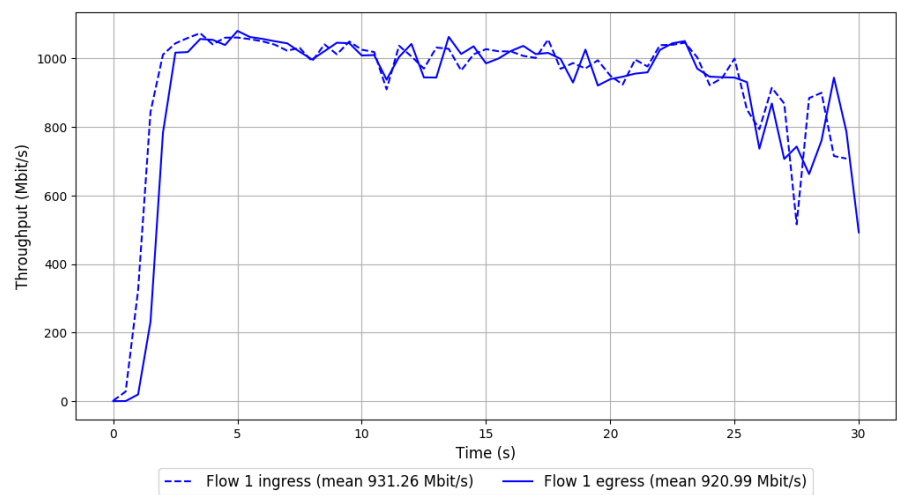


Run 2: Statistics of FillP

Start at: 2019-01-18 18:06:02  
End at: 2019-01-18 18:06:32  
Local clock offset: 25.985 ms  
Remote clock offset: 22.491 ms

# Below is generated by plot.py at 2019-01-18 21:06:42  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 920.99 Mbit/s  
95th percentile per-packet one-way delay: 143.978 ms  
Loss rate: 1.67%  
-- Flow 1:  
Average throughput: 920.99 Mbit/s  
95th percentile per-packet one-way delay: 143.978 ms  
Loss rate: 1.67%

Run 2: Report of FillP — Data Link

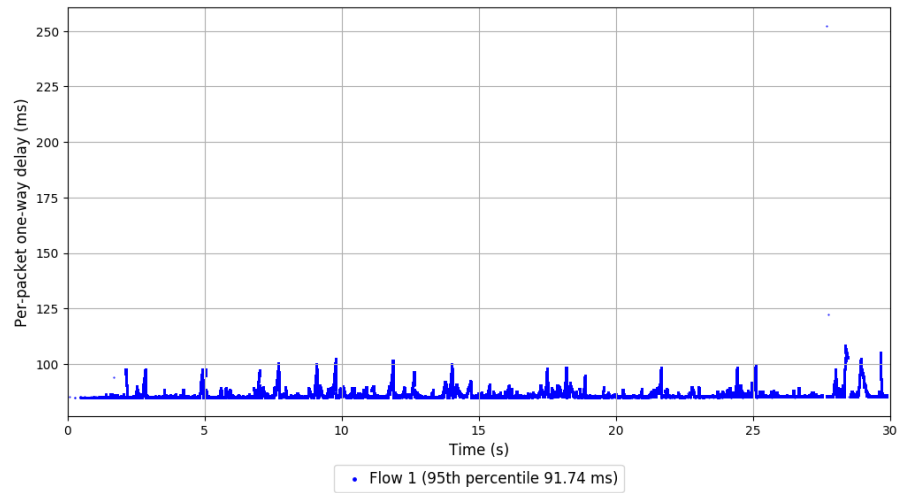
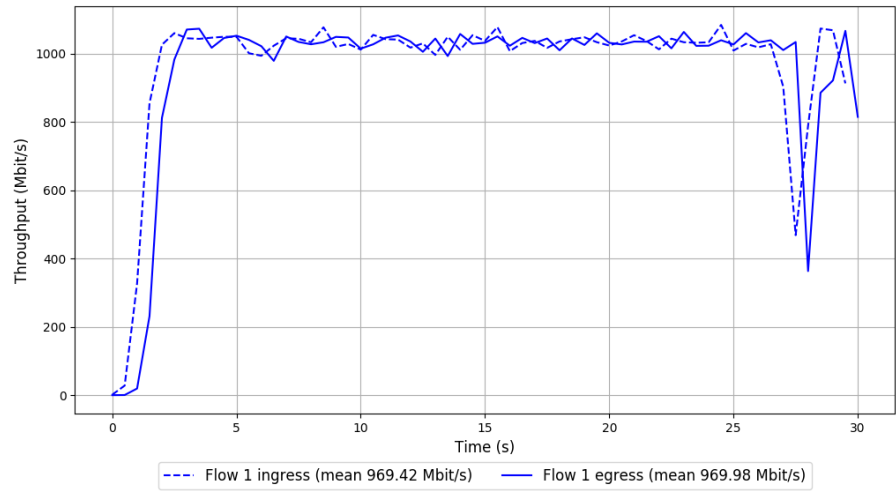


Run 3: Statistics of FillP

Start at: 2019-01-18 18:37:54  
End at: 2019-01-18 18:38:24  
Local clock offset: 41.908 ms  
Remote clock offset: 37.937 ms

# Below is generated by plot.py at 2019-01-18 21:08:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 969.98 Mbit/s  
95th percentile per-packet one-way delay: 91.744 ms  
Loss rate: 0.52%  
-- Flow 1:  
Average throughput: 969.98 Mbit/s  
95th percentile per-packet one-way delay: 91.744 ms  
Loss rate: 0.52%

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



Run 4: Statistics of FillP

Start at: 2019-01-18 19:10:18

End at: 2019-01-18 19:10:48

Local clock offset: 20.602 ms

Remote clock offset: 18.36 ms

# Below is generated by plot.py at 2019-01-18 21:08:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 908.89 Mbit/s

95th percentile per-packet one-way delay: 140.766 ms

Loss rate: 1.60%

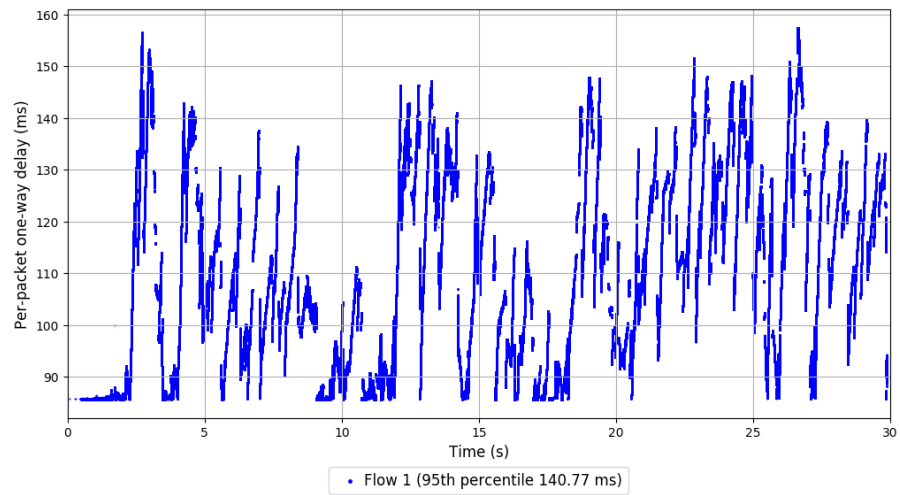
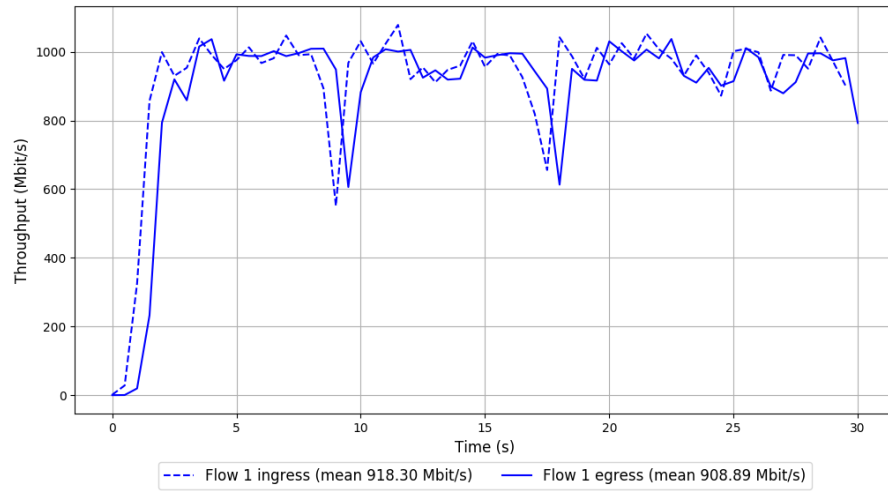
-- Flow 1:

Average throughput: 908.89 Mbit/s

95th percentile per-packet one-way delay: 140.766 ms

Loss rate: 1.60%

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



Run 5: Statistics of FillP

Start at: 2019-01-18 19:42:26

End at: 2019-01-18 19:42:56

Local clock offset: 9.617 ms

Remote clock offset: 8.423 ms

# Below is generated by plot.py at 2019-01-18 21:08:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 861.54 Mbit/s

95th percentile per-packet one-way delay: 154.423 ms

Loss rate: 4.96%

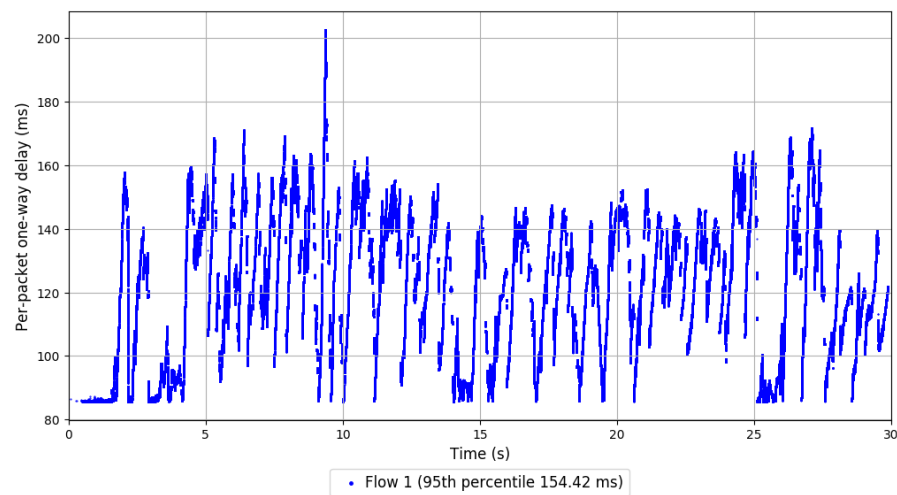
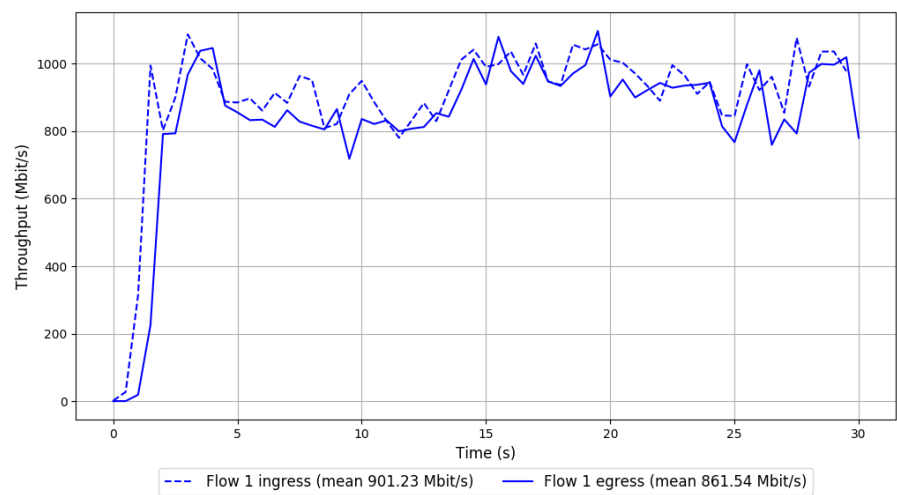
-- Flow 1:

Average throughput: 861.54 Mbit/s

95th percentile per-packet one-way delay: 154.423 ms

Loss rate: 4.96%

Run 5: Report of FillP — Data Link



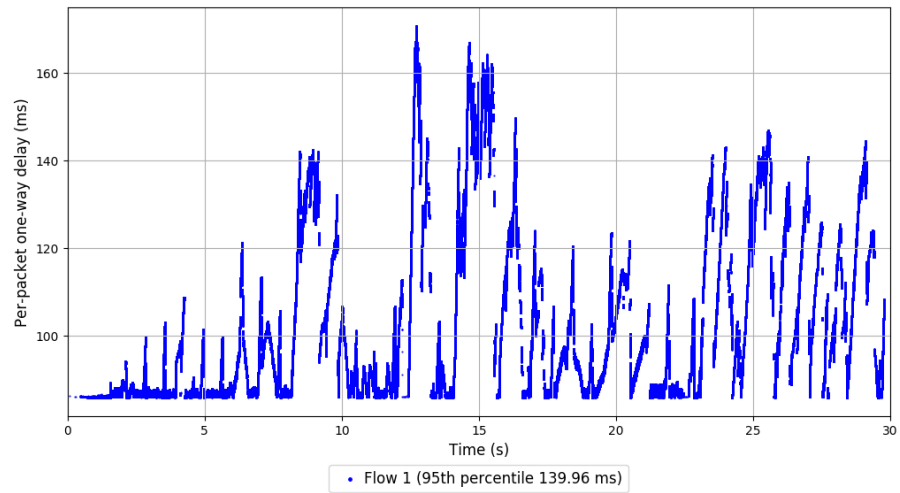
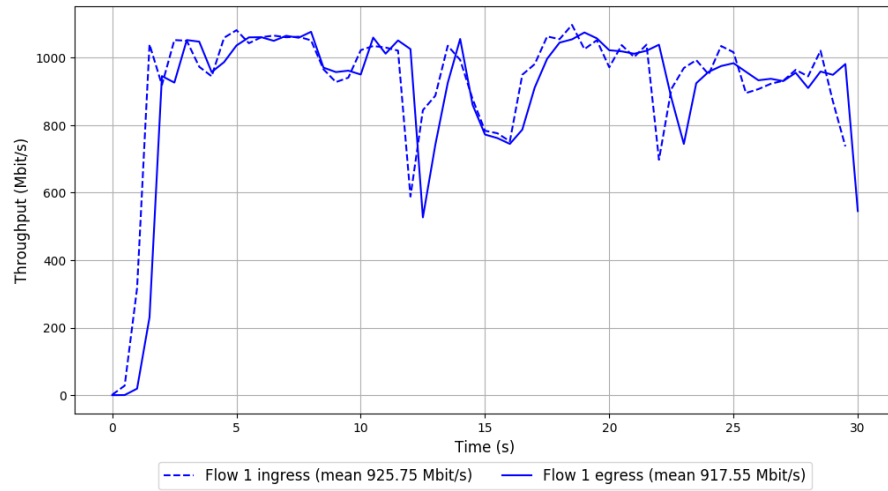


Run 1: Statistics of FillP-Sheep

Start at: 2019-01-18 18:01:25  
End at: 2019-01-18 18:01:55  
Local clock offset: 24.189 ms  
Remote clock offset: 21.907 ms

# Below is generated by plot.py at 2019-01-18 21:08:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 917.55 Mbit/s  
95th percentile per-packet one-way delay: 139.958 ms  
Loss rate: 1.46%  
-- Flow 1:  
Average throughput: 917.55 Mbit/s  
95th percentile per-packet one-way delay: 139.958 ms  
Loss rate: 1.46%

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

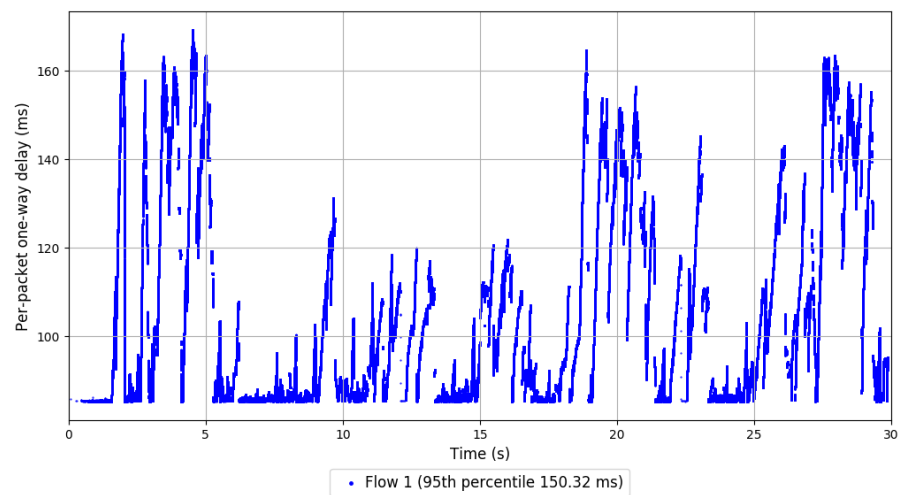
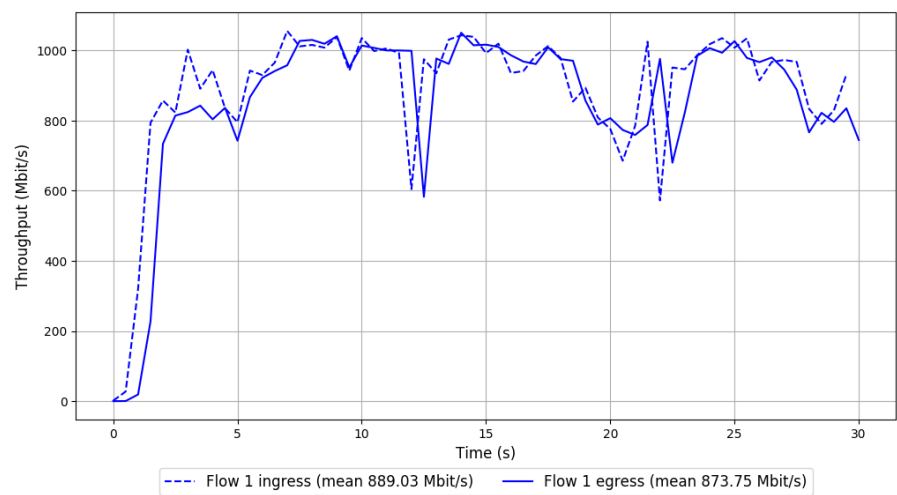


Run 2: Statistics of FillP-Sheep

Start at: 2019-01-18 18:33:12  
End at: 2019-01-18 18:33:42  
Local clock offset: 36.849 ms  
Remote clock offset: 33.086 ms

# Below is generated by plot.py at 2019-01-18 21:08:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 873.75 Mbit/s  
95th percentile per-packet one-way delay: 150.319 ms  
Loss rate: 2.29%  
-- Flow 1:  
Average throughput: 873.75 Mbit/s  
95th percentile per-packet one-way delay: 150.319 ms  
Loss rate: 2.29%

Run 2: Report of FillP-Sheep — Data Link

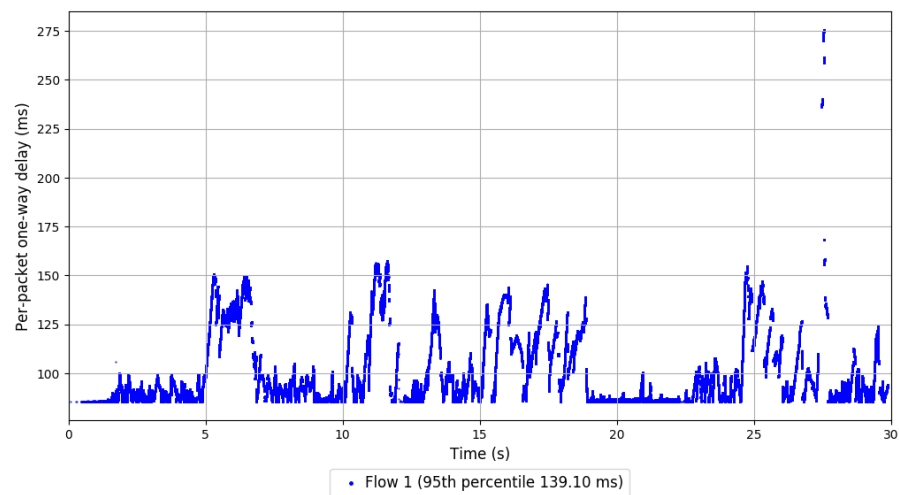
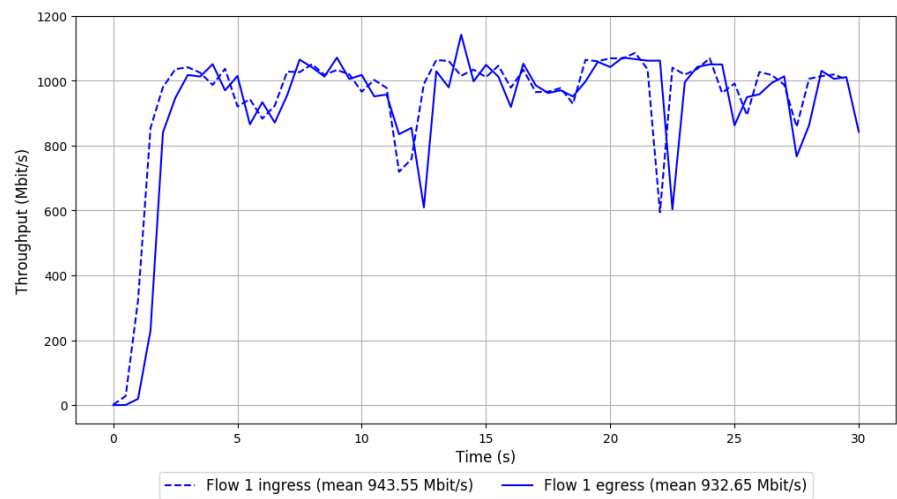


Run 3: Statistics of FillP-Sheep

Start at: 2019-01-18 19:05:38  
End at: 2019-01-18 19:06:08  
Local clock offset: 18.249 ms  
Remote clock offset: 16.436 ms

# Below is generated by plot.py at 2019-01-18 21:08:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 932.65 Mbit/s  
95th percentile per-packet one-way delay: 139.100 ms  
Loss rate: 1.72%  
-- Flow 1:  
Average throughput: 932.65 Mbit/s  
95th percentile per-packet one-way delay: 139.100 ms  
Loss rate: 1.72%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-01-18 19:37:50

End at: 2019-01-18 19:38:20

Local clock offset: 8.694 ms

Remote clock offset: 7.621 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 865.47 Mbit/s

95th percentile per-packet one-way delay: 146.837 ms

Loss rate: 2.22%

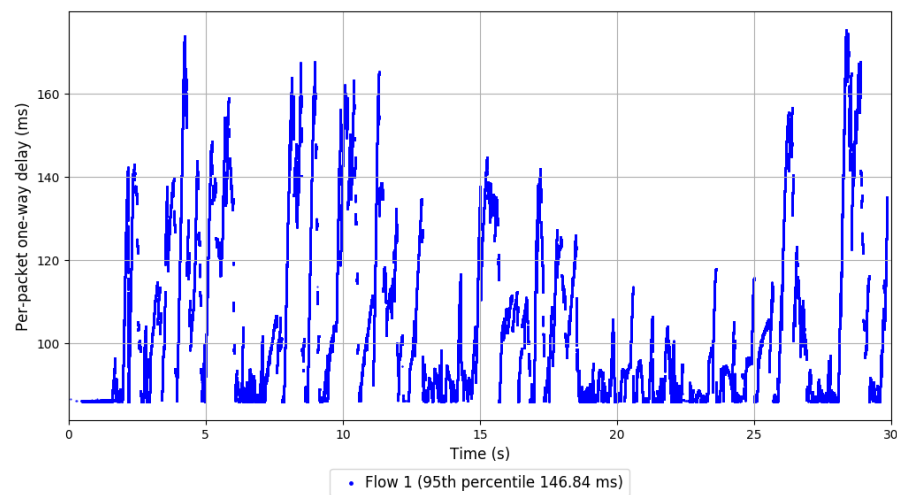
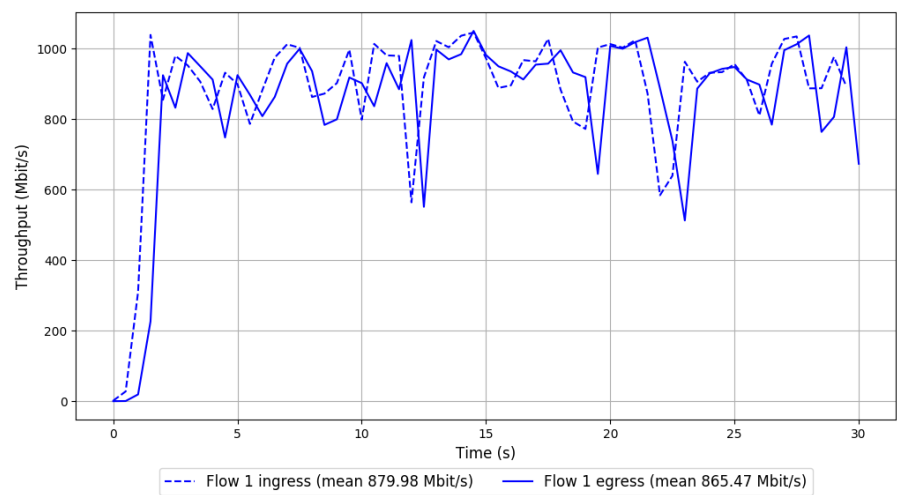
-- Flow 1:

Average throughput: 865.47 Mbit/s

95th percentile per-packet one-way delay: 146.837 ms

Loss rate: 2.22%

Run 4: Report of FillP-Sheep — Data Link





Run 5: Statistics of FillP-Sheep

Start at: 2019-01-18 20:10:51

End at: 2019-01-18 20:11:21

Local clock offset: 2.273 ms

Remote clock offset: 3.559 ms

# Below is generated by plot.py at 2019-01-18 21:30:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 972.82 Mbit/s

95th percentile per-packet one-way delay: 122.887 ms

Loss rate: 1.24%

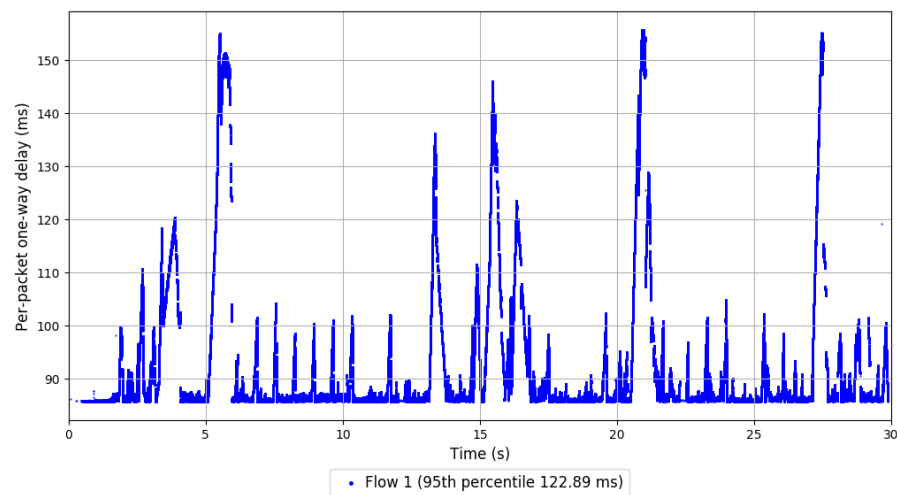
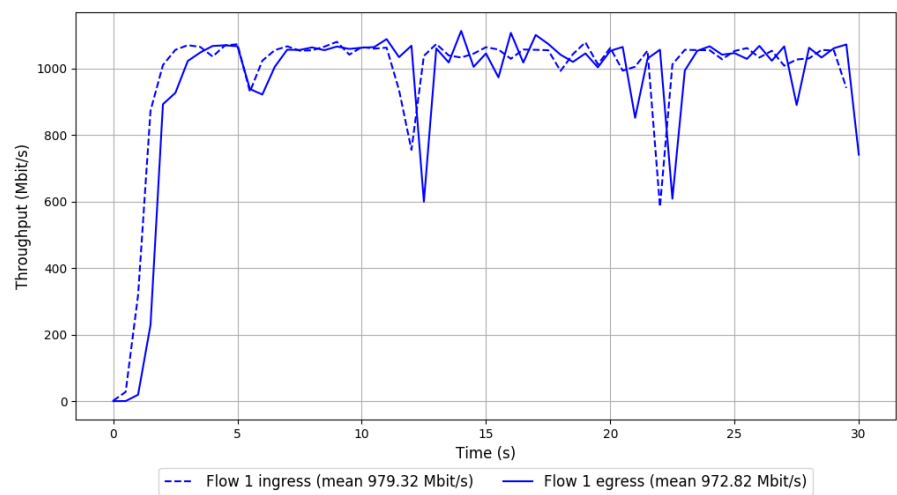
-- Flow 1:

Average throughput: 972.82 Mbit/s

95th percentile per-packet one-way delay: 122.887 ms

Loss rate: 1.24%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-01-18 17:44:50

End at: 2019-01-18 17:45:20

Local clock offset: 14.286 ms

Remote clock offset: 13.49 ms

# Below is generated by plot.py at 2019-01-18 21:30:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 219.54 Mbit/s

95th percentile per-packet one-way delay: 85.567 ms

Loss rate: 0.60%

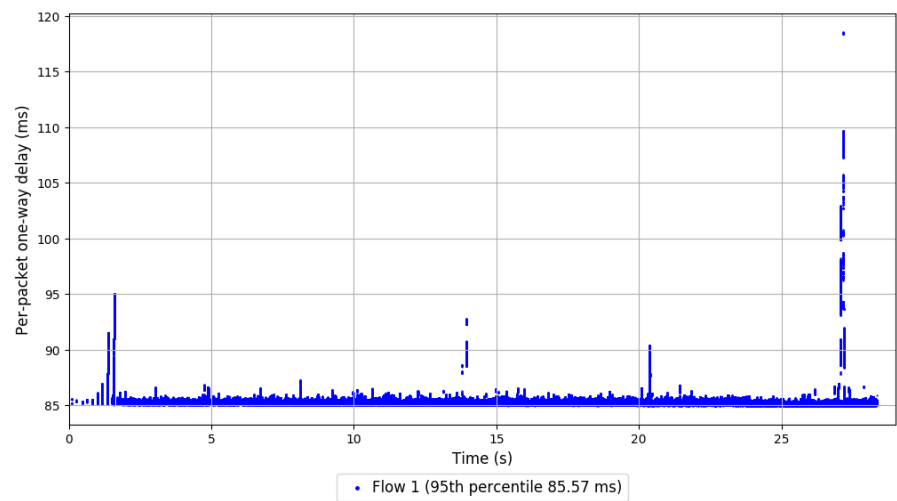
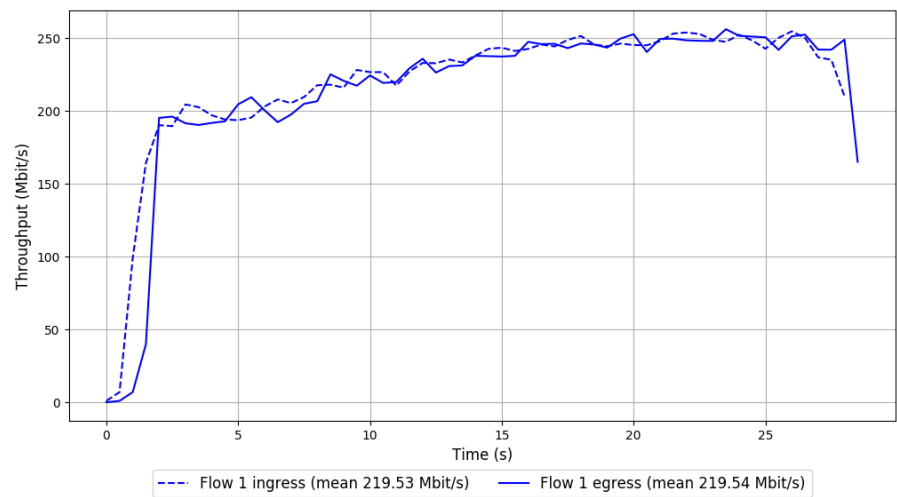
-- Flow 1:

Average throughput: 219.54 Mbit/s

95th percentile per-packet one-way delay: 85.567 ms

Loss rate: 0.60%

Run 1: Report of Indigo — Data Link

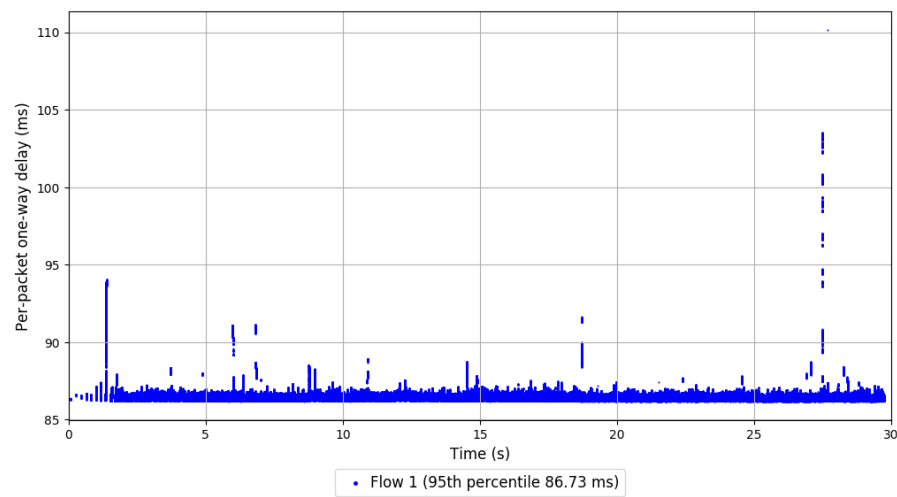
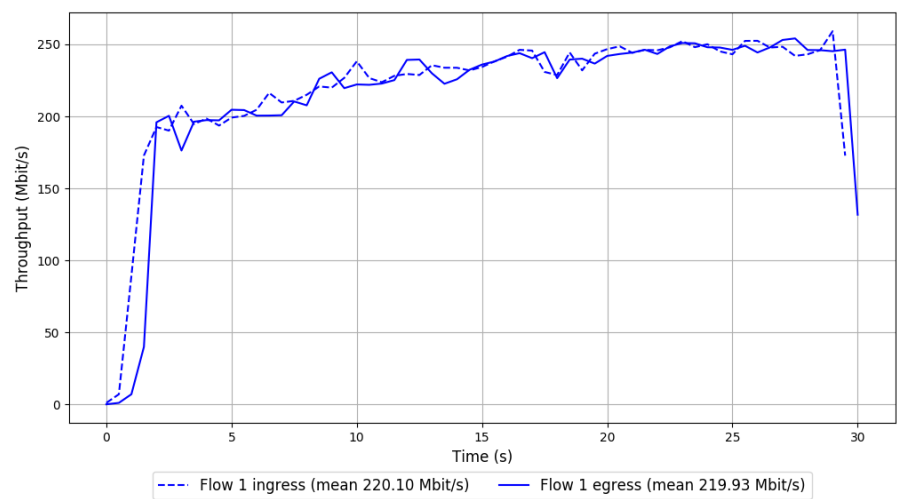


Run 2: Statistics of Indigo

Start at: 2019-01-18 18:16:43  
End at: 2019-01-18 18:17:13  
Local clock offset: 22.578 ms  
Remote clock offset: 19.926 ms

# Below is generated by plot.py at 2019-01-18 21:30:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 219.93 Mbit/s  
95th percentile per-packet one-way delay: 86.734 ms  
Loss rate: 0.66%  
-- Flow 1:  
Average throughput: 219.93 Mbit/s  
95th percentile per-packet one-way delay: 86.734 ms  
Loss rate: 0.66%

Run 2: Report of Indigo — Data Link

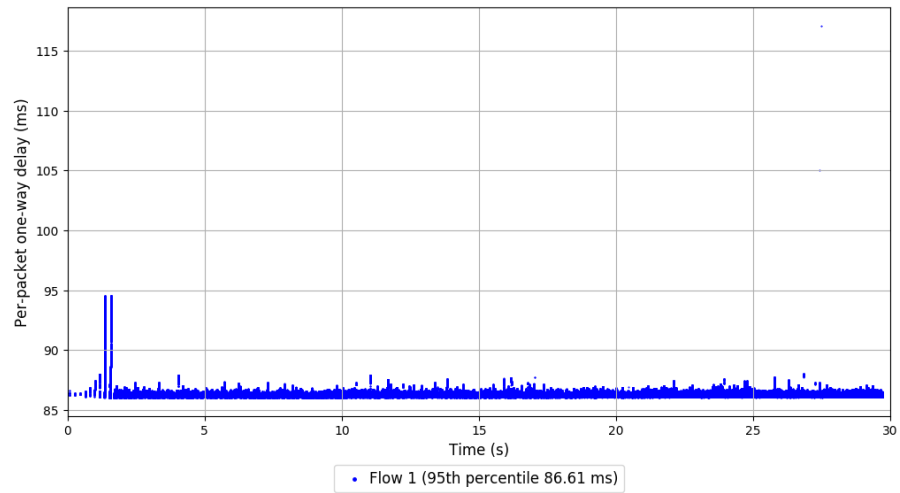
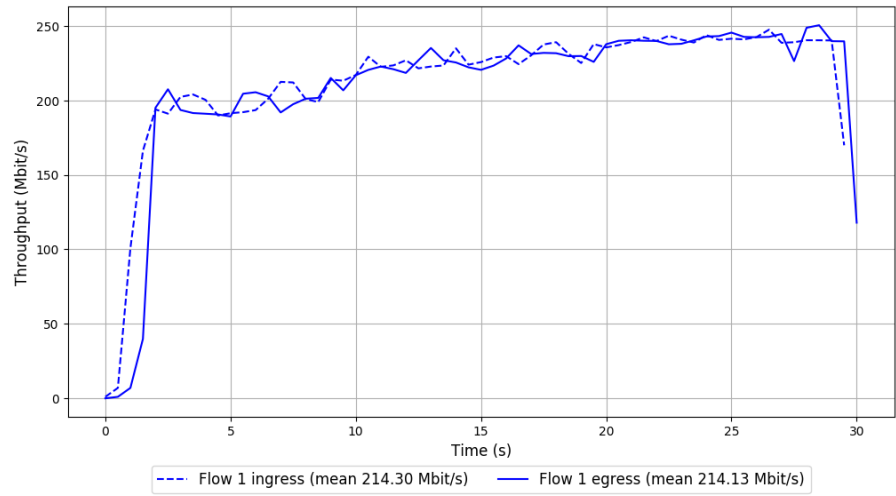


Run 3: Statistics of Indigo

Start at: 2019-01-18 18:48:45  
End at: 2019-01-18 18:49:15  
Local clock offset: 19.066 ms  
Remote clock offset: 16.699 ms

# Below is generated by plot.py at 2019-01-18 21:30:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 214.13 Mbit/s  
95th percentile per-packet one-way delay: 86.606 ms  
Loss rate: 0.66%  
-- Flow 1:  
Average throughput: 214.13 Mbit/s  
95th percentile per-packet one-way delay: 86.606 ms  
Loss rate: 0.66%

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





Run 4: Statistics of Indigo

Start at: 2019-01-18 19:21:22

End at: 2019-01-18 19:21:52

Local clock offset: 10.797 ms

Remote clock offset: 9.055 ms

# Below is generated by plot.py at 2019-01-18 21:30:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 218.56 Mbit/s

95th percentile per-packet one-way delay: 87.281 ms

Loss rate: 0.66%

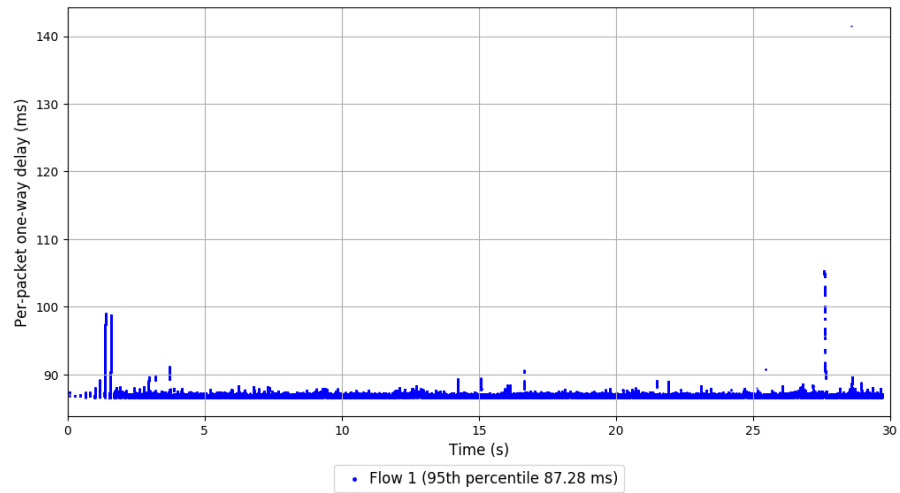
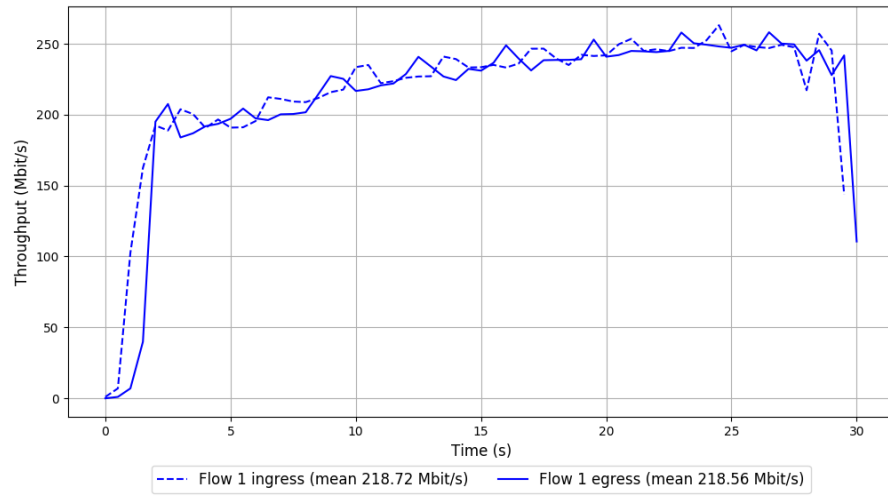
-- Flow 1:

Average throughput: 218.56 Mbit/s

95th percentile per-packet one-way delay: 87.281 ms

Loss rate: 0.66%

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



Run 5: Statistics of Indigo

Start at: 2019-01-18 19:53:27

End at: 2019-01-18 19:53:57

Local clock offset: 5.297 ms

Remote clock offset: 4.882 ms

# Below is generated by plot.py at 2019-01-18 21:30:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 213.00 Mbit/s

95th percentile per-packet one-way delay: 86.839 ms

Loss rate: 0.66%

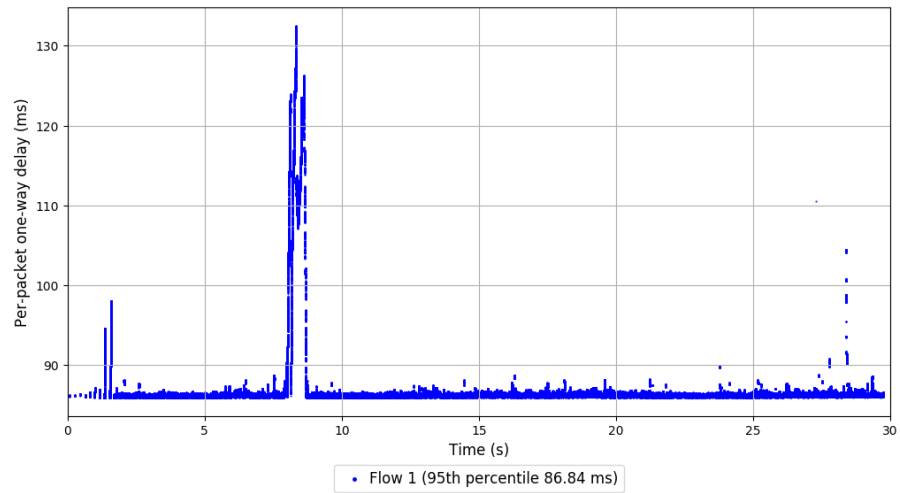
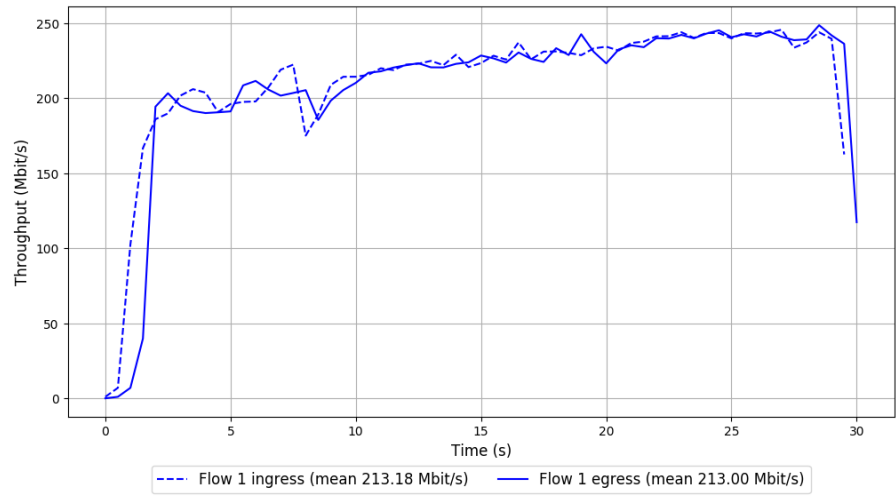
-- Flow 1:

Average throughput: 213.00 Mbit/s

95th percentile per-packet one-way delay: 86.839 ms

Loss rate: 0.66%

## Run 5: Report of Indigo — Data Link

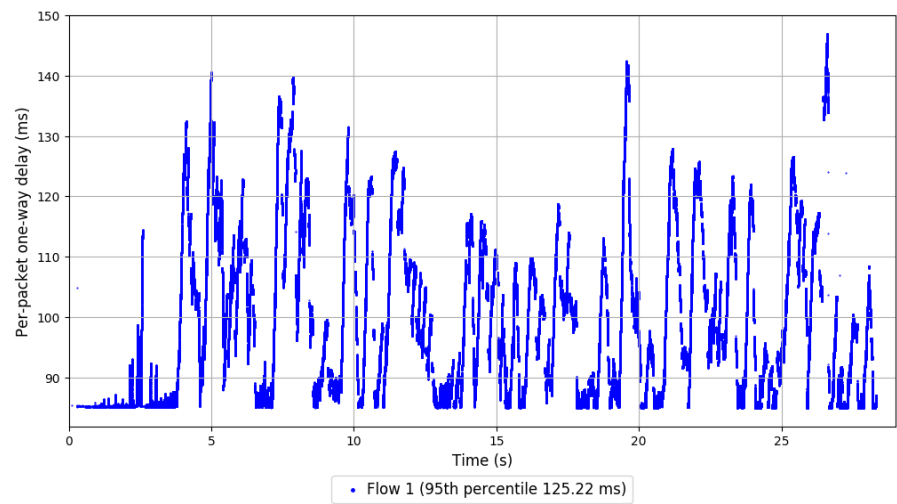
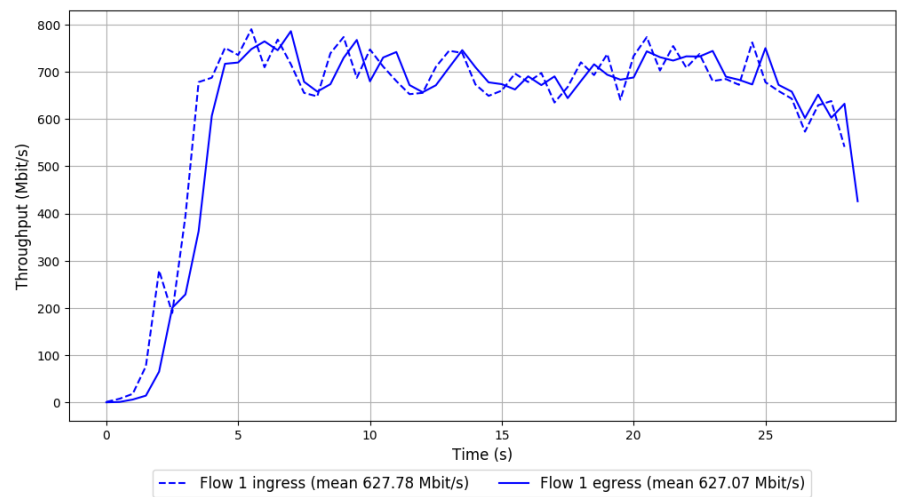


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-01-18 17:46:18  
End at: 2019-01-18 17:46:48  
Local clock offset: 16.992 ms  
Remote clock offset: 15.842 ms

# Below is generated by plot.py at 2019-01-18 21:30:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 627.07 Mbit/s  
95th percentile per-packet one-way delay: 125.222 ms  
Loss rate: 0.72%  
-- Flow 1:  
Average throughput: 627.07 Mbit/s  
95th percentile per-packet one-way delay: 125.222 ms  
Loss rate: 0.72%

Run 1: Report of Indigo-MusesC3 — Data Link

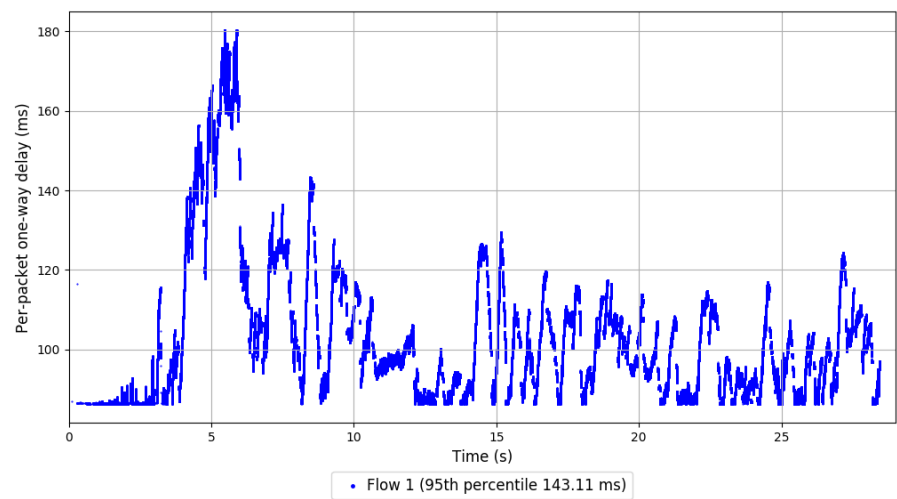
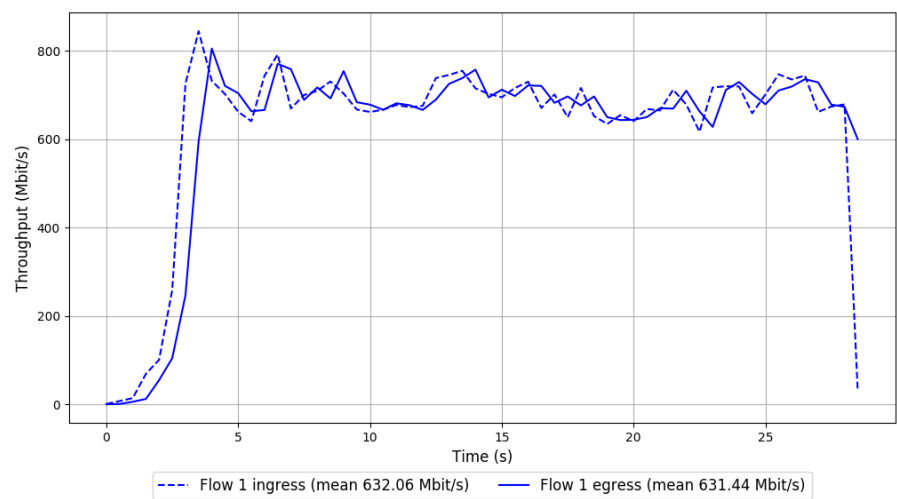


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-01-18 18:18:13  
End at: 2019-01-18 18:18:44  
Local clock offset: 22.922 ms  
Remote clock offset: 20.462 ms

# Below is generated by plot.py at 2019-01-18 21:30:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 631.44 Mbit/s  
95th percentile per-packet one-way delay: 143.110 ms  
Loss rate: 0.71%  
-- Flow 1:  
Average throughput: 631.44 Mbit/s  
95th percentile per-packet one-way delay: 143.110 ms  
Loss rate: 0.71%

Run 2: Report of Indigo-MusesC3 — Data Link



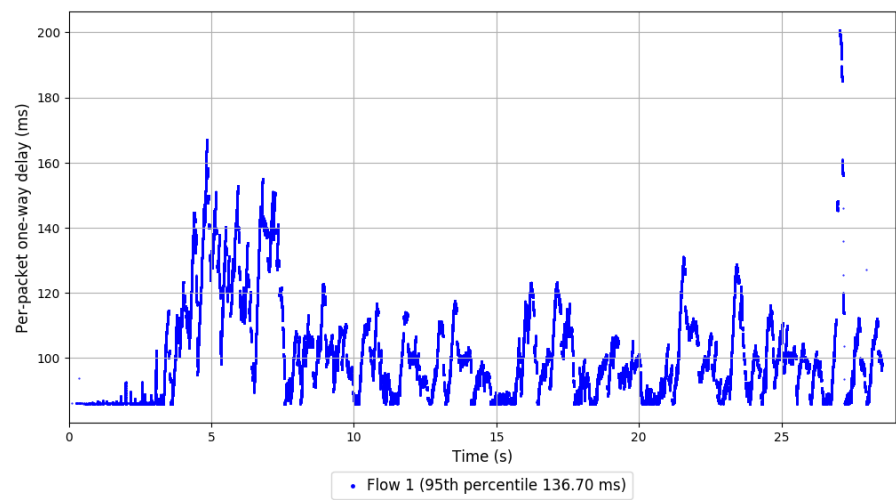
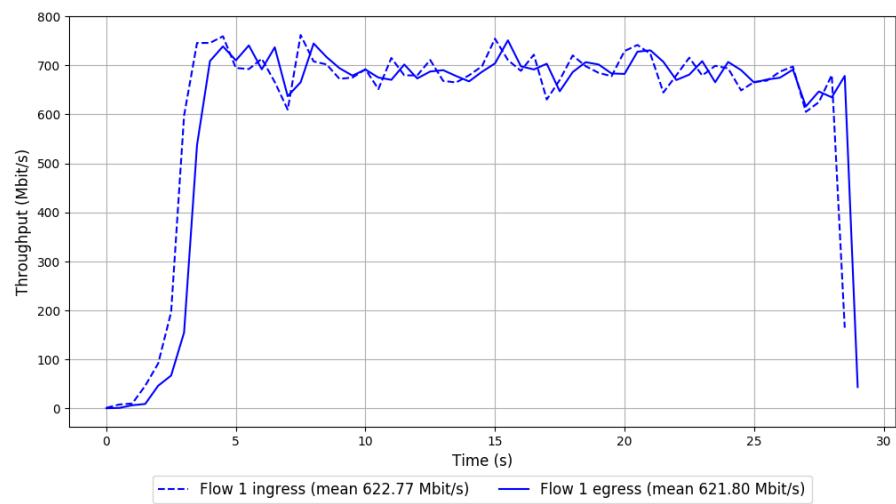


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-01-18 18:50:16  
End at: 2019-01-18 18:50:46  
Local clock offset: 17.961 ms  
Remote clock offset: 15.813 ms

# Below is generated by plot.py at 2019-01-18 21:30:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 621.80 Mbit/s  
95th percentile per-packet one-way delay: 136.701 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 621.80 Mbit/s  
95th percentile per-packet one-way delay: 136.701 ms  
Loss rate: 0.76%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-01-18 19:22:52

End at: 2019-01-18 19:23:22

Local clock offset: 9.299 ms

Remote clock offset: 8.283 ms

# Below is generated by plot.py at 2019-01-18 21:30:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 621.07 Mbit/s

95th percentile per-packet one-way delay: 130.514 ms

Loss rate: 0.75%

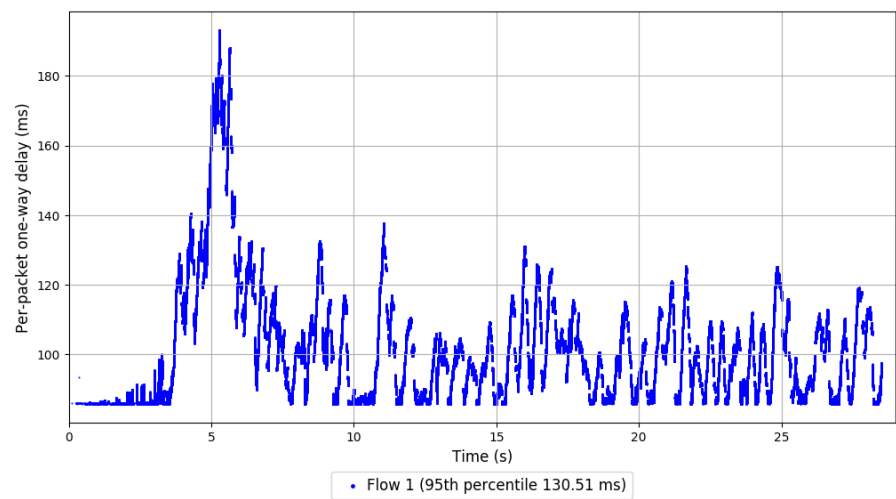
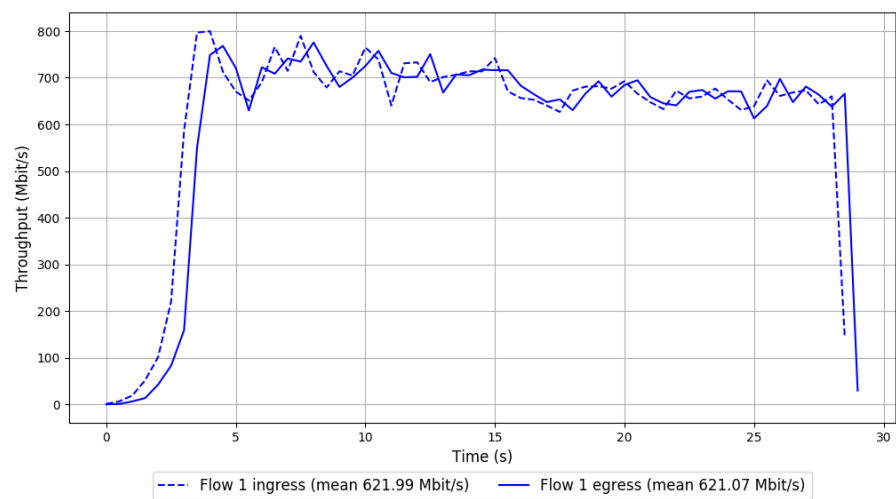
-- Flow 1:

Average throughput: 621.07 Mbit/s

95th percentile per-packet one-way delay: 130.514 ms

Loss rate: 0.75%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-01-18 19:54:59

End at: 2019-01-18 19:55:29

Local clock offset: 4.54 ms

Remote clock offset: 4.447 ms

# Below is generated by plot.py at 2019-01-18 21:30:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 608.62 Mbit/s

95th percentile per-packet one-way delay: 120.169 ms

Loss rate: 0.73%

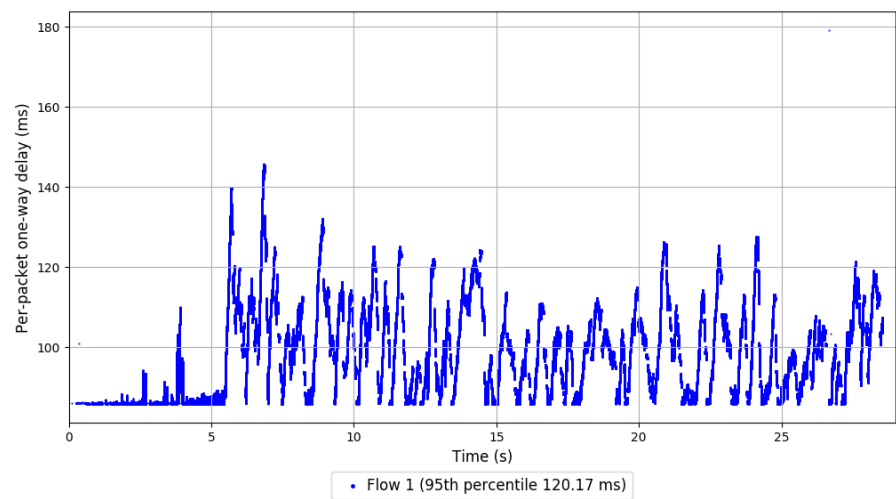
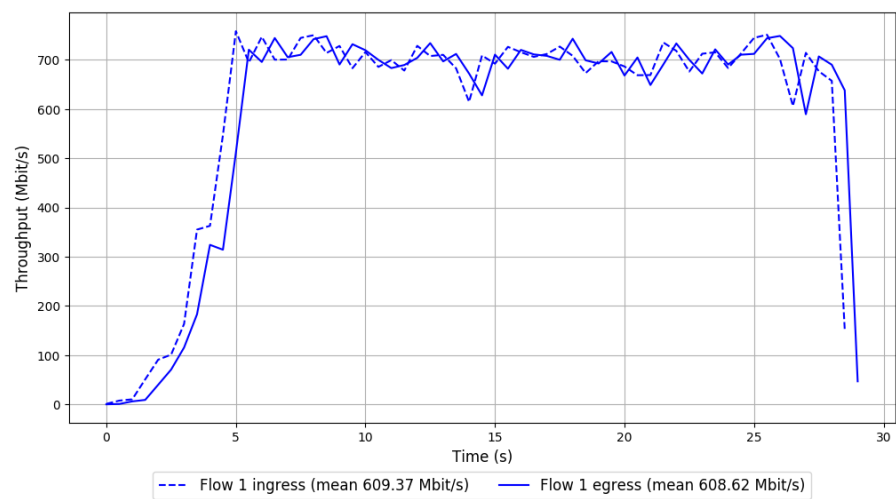
-- Flow 1:

Average throughput: 608.62 Mbit/s

95th percentile per-packet one-way delay: 120.169 ms

Loss rate: 0.73%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-01-18 17:56:42

End at: 2019-01-18 17:57:12

Local clock offset: 18.219 ms

Remote clock offset: 16.08 ms

# Below is generated by plot.py at 2019-01-18 21:30:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 590.94 Mbit/s

95th percentile per-packet one-way delay: 176.748 ms

Loss rate: 1.48%

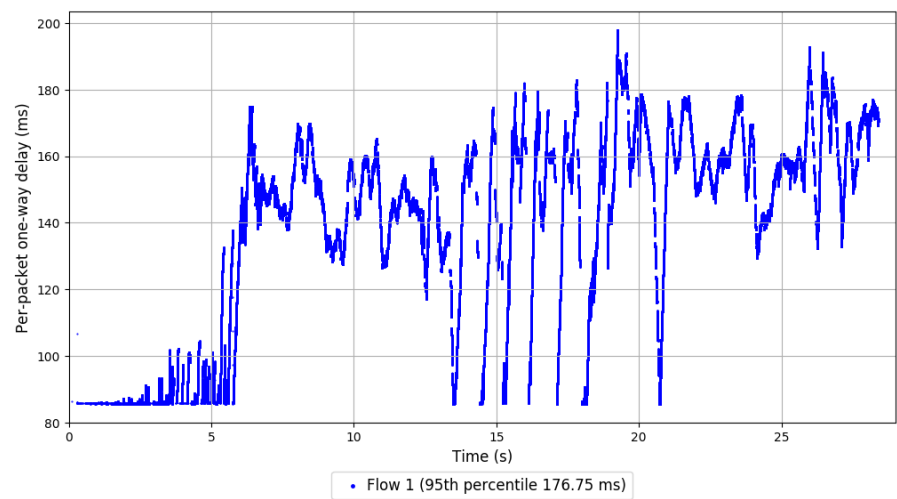
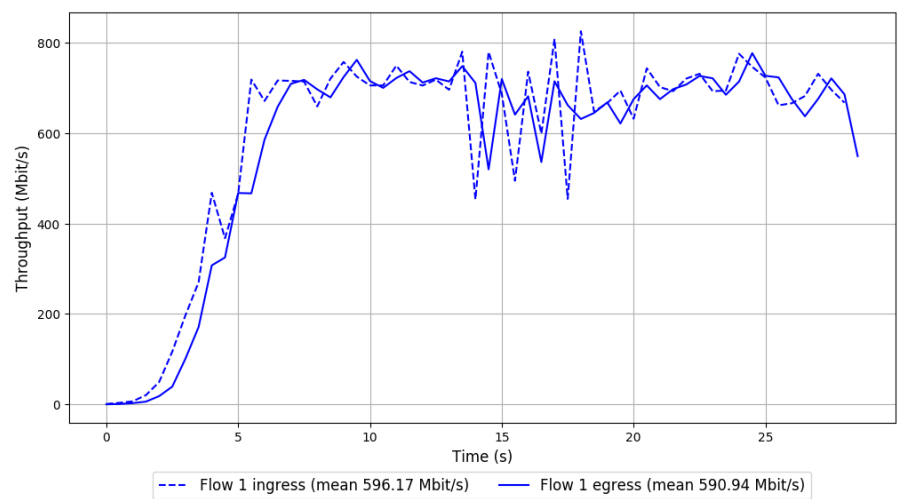
-- Flow 1:

Average throughput: 590.94 Mbit/s

95th percentile per-packet one-way delay: 176.748 ms

Loss rate: 1.48%

Run 1: Report of Indigo-MusesC5 — Data Link



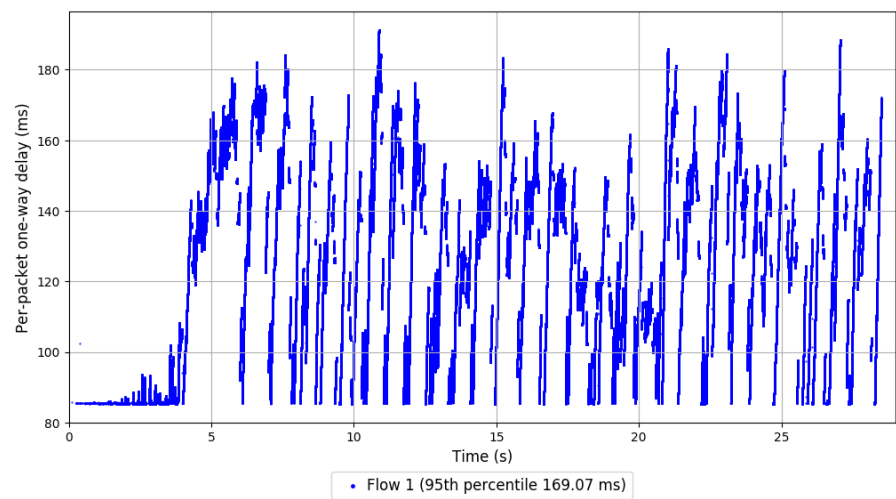
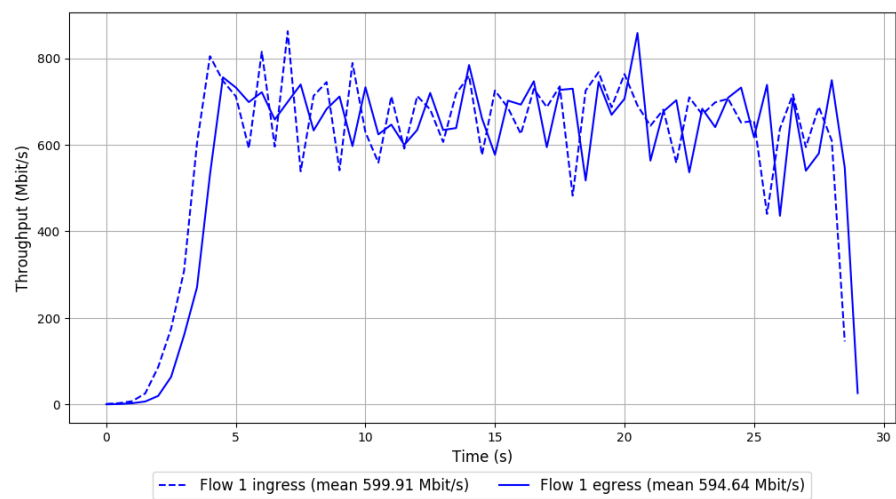


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-01-18 18:28:28  
End at: 2019-01-18 18:28:58  
Local clock offset: 31.706 ms  
Remote clock offset: 28.414 ms

# Below is generated by plot.py at 2019-01-18 21:31:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 594.64 Mbit/s  
95th percentile per-packet one-way delay: 169.070 ms  
Loss rate: 1.48%  
-- Flow 1:  
Average throughput: 594.64 Mbit/s  
95th percentile per-packet one-way delay: 169.070 ms  
Loss rate: 1.48%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-01-18 19:00:54

End at: 2019-01-18 19:01:24

Local clock offset: 17.063 ms

Remote clock offset: 14.97 ms

# Below is generated by plot.py at 2019-01-18 21:32:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 610.42 Mbit/s

95th percentile per-packet one-way delay: 187.457 ms

Loss rate: 2.43%

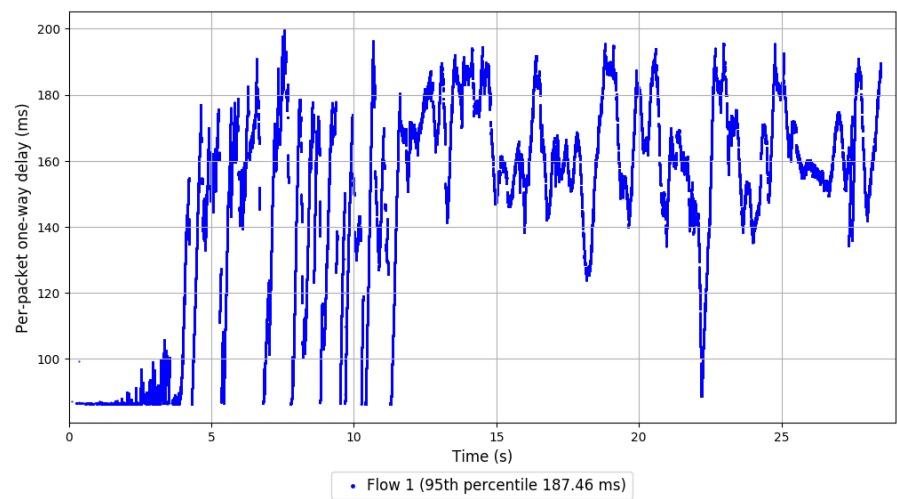
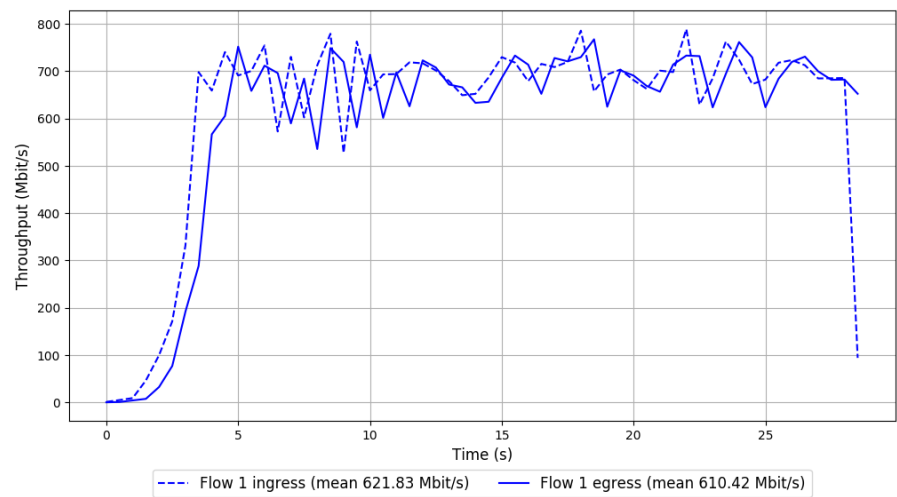
-- Flow 1:

Average throughput: 610.42 Mbit/s

95th percentile per-packet one-way delay: 187.457 ms

Loss rate: 2.43%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-01-18 19:33:13

End at: 2019-01-18 19:33:43

Local clock offset: 7.699 ms

Remote clock offset: 7.106 ms

# Below is generated by plot.py at 2019-01-18 21:39:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 650.44 Mbit/s

95th percentile per-packet one-way delay: 184.623 ms

Loss rate: 1.45%

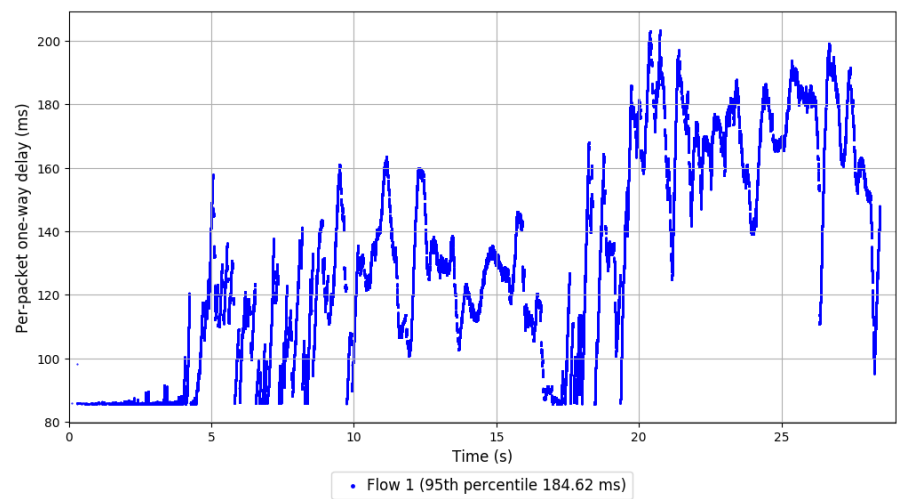
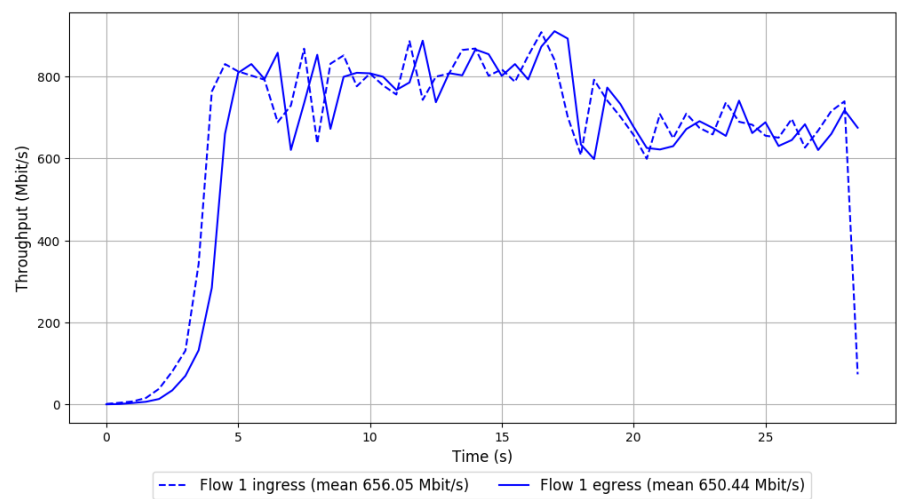
-- Flow 1:

Average throughput: 650.44 Mbit/s

95th percentile per-packet one-way delay: 184.623 ms

Loss rate: 1.45%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-01-18 20:05:49

End at: 2019-01-18 20:06:19

Local clock offset: 2.778 ms

Remote clock offset: 3.379 ms

# Below is generated by plot.py at 2019-01-18 21:39:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 614.66 Mbit/s

95th percentile per-packet one-way delay: 169.666 ms

Loss rate: 1.41%

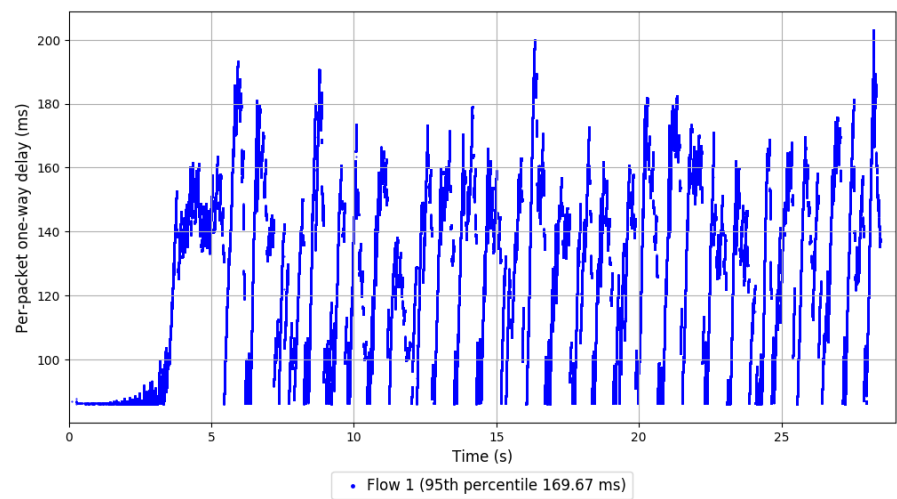
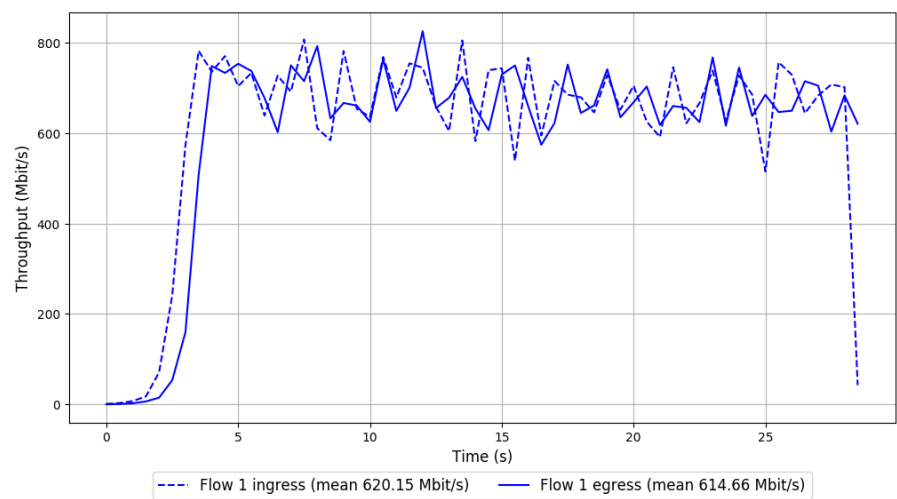
-- Flow 1:

Average throughput: 614.66 Mbit/s

95th percentile per-packet one-way delay: 169.666 ms

Loss rate: 1.41%

Run 5: Report of Indigo-MusesC5 — Data Link



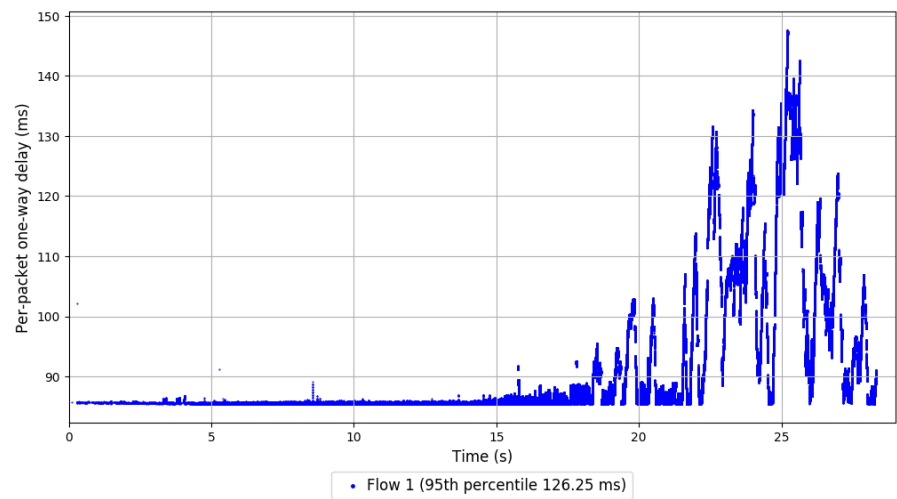
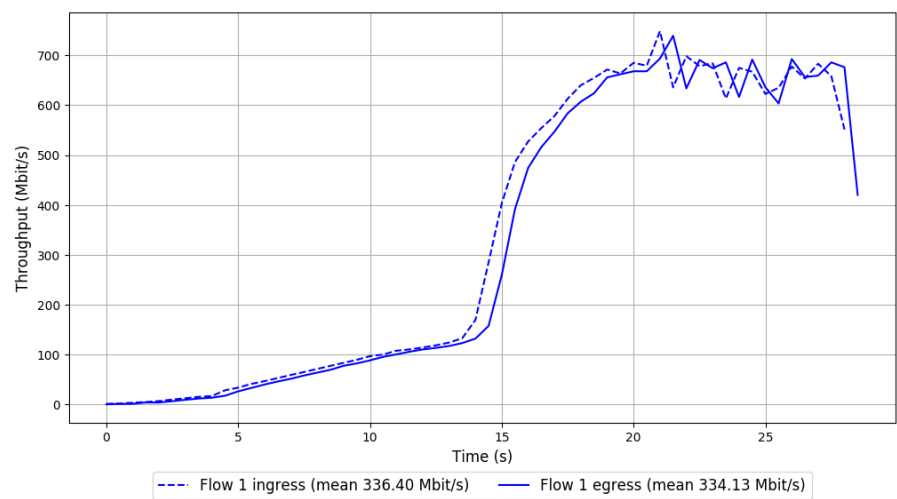


Run 1: Statistics of Indigo-MusesD

Start at: 2019-01-18 17:58:20  
End at: 2019-01-18 17:58:50  
Local clock offset: 20.078 ms  
Remote clock offset: 17.962 ms

# Below is generated by plot.py at 2019-01-18 21:39:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 334.13 Mbit/s  
95th percentile per-packet one-way delay: 126.247 ms  
Loss rate: 1.28%  
-- Flow 1:  
Average throughput: 334.13 Mbit/s  
95th percentile per-packet one-way delay: 126.247 ms  
Loss rate: 1.28%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-01-18 18:30:06

End at: 2019-01-18 18:30:36

Local clock offset: 33.765 ms

Remote clock offset: 29.963 ms

# Below is generated by plot.py at 2019-01-18 21:39:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 370.73 Mbit/s

95th percentile per-packet one-way delay: 113.938 ms

Loss rate: 1.13%

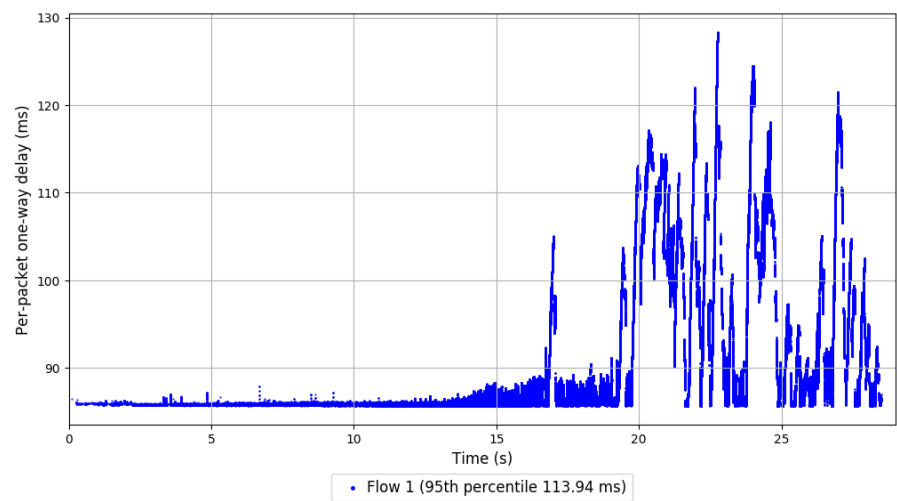
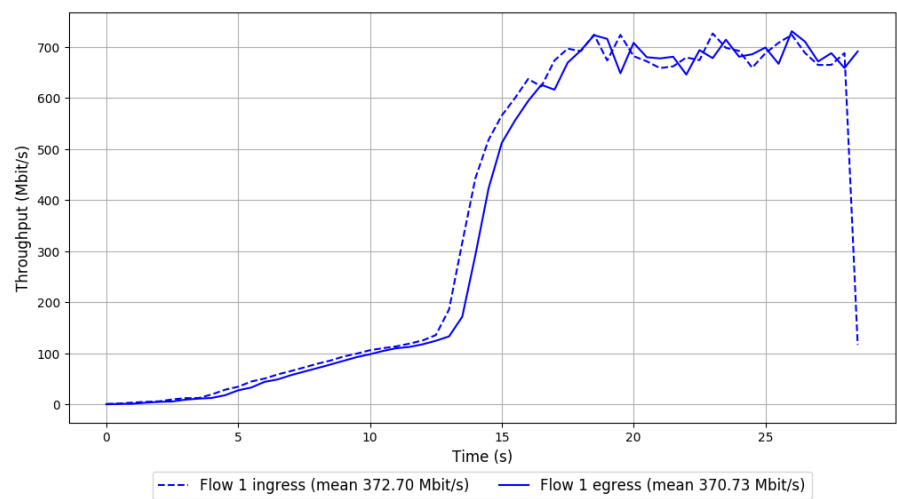
-- Flow 1:

Average throughput: 370.73 Mbit/s

95th percentile per-packet one-way delay: 113.938 ms

Loss rate: 1.13%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-01-18 19:02:33

End at: 2019-01-18 19:03:03

Local clock offset: 16.821 ms

Remote clock offset: 15.564 ms

# Below is generated by plot.py at 2019-01-18 21:39:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 358.21 Mbit/s

95th percentile per-packet one-way delay: 126.790 ms

Loss rate: 1.31%

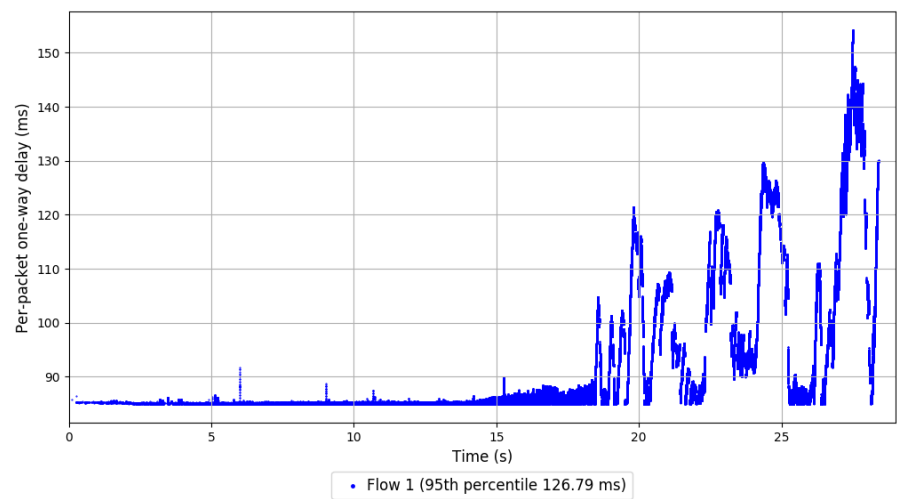
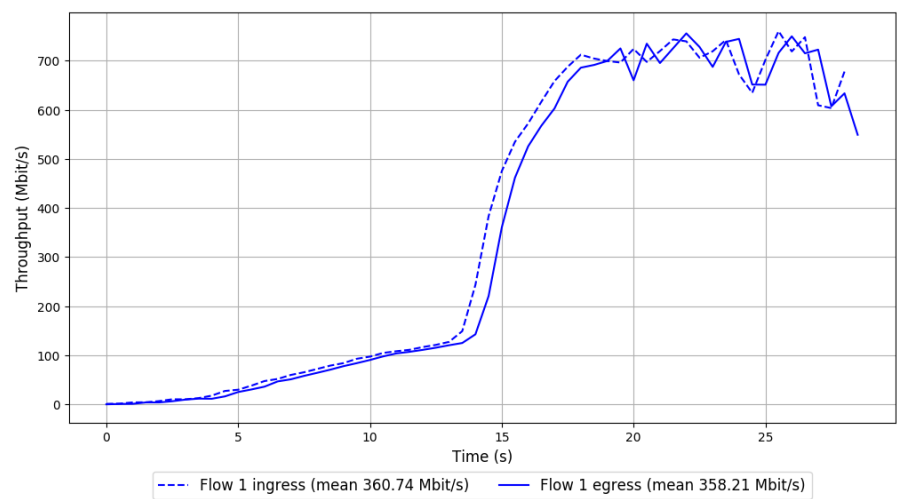
-- Flow 1:

Average throughput: 358.21 Mbit/s

95th percentile per-packet one-way delay: 126.790 ms

Loss rate: 1.31%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-01-18 19:34:55

End at: 2019-01-18 19:35:25

Local clock offset: 7.879 ms

Remote clock offset: 7.221 ms

# Below is generated by plot.py at 2019-01-18 21:39:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 223.37 Mbit/s

95th percentile per-packet one-way delay: 103.735 ms

Loss rate: 2.09%

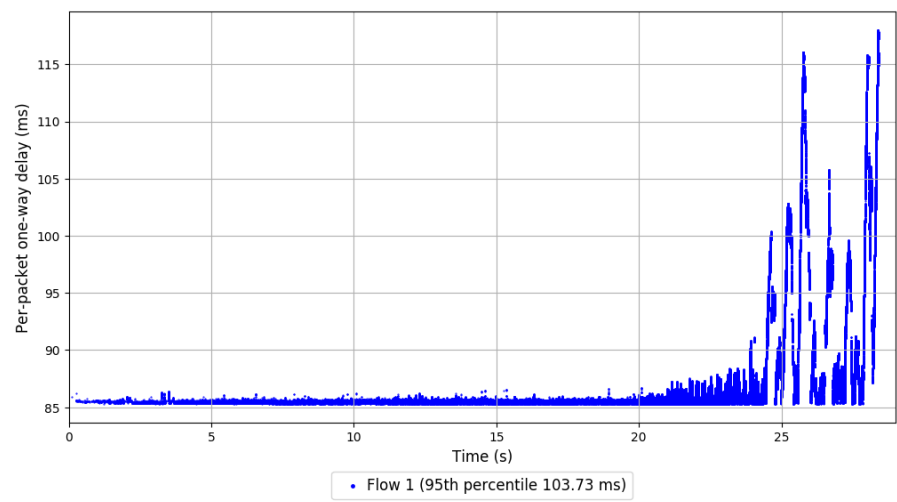
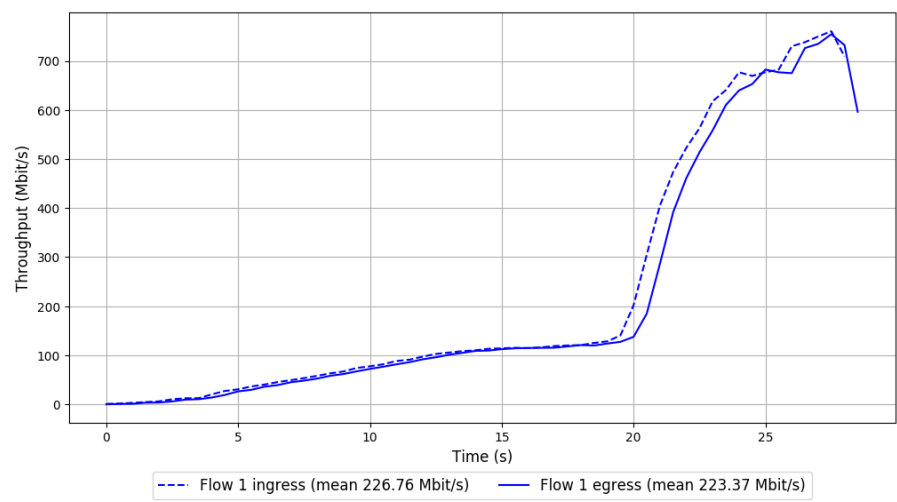
-- Flow 1:

Average throughput: 223.37 Mbit/s

95th percentile per-packet one-way delay: 103.735 ms

Loss rate: 2.09%

Run 4: Report of Indigo-MusesD — Data Link





Run 5: Statistics of Indigo-MusesD

Start at: 2019-01-18 20:07:42

End at: 2019-01-18 20:08:12

Local clock offset: 2.244 ms

Remote clock offset: 3.381 ms

# Below is generated by plot.py at 2019-01-18 21:39:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 359.39 Mbit/s

95th percentile per-packet one-way delay: 104.991 ms

Loss rate: 1.21%

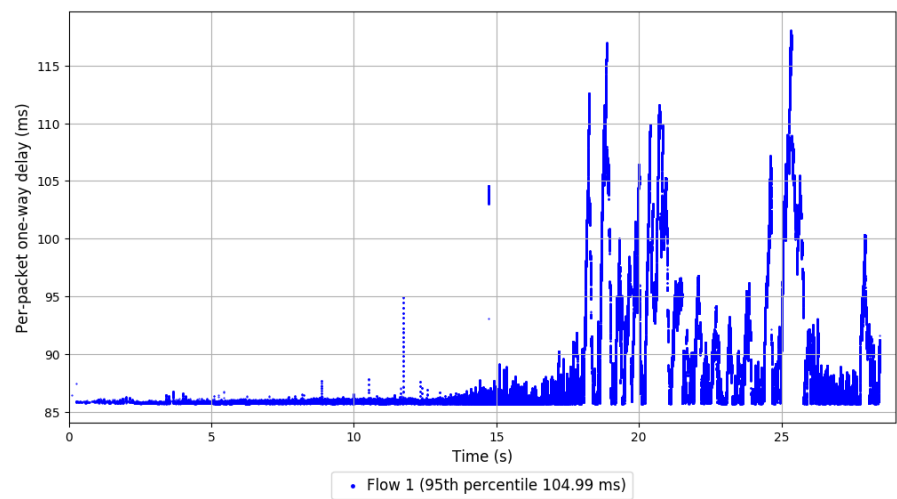
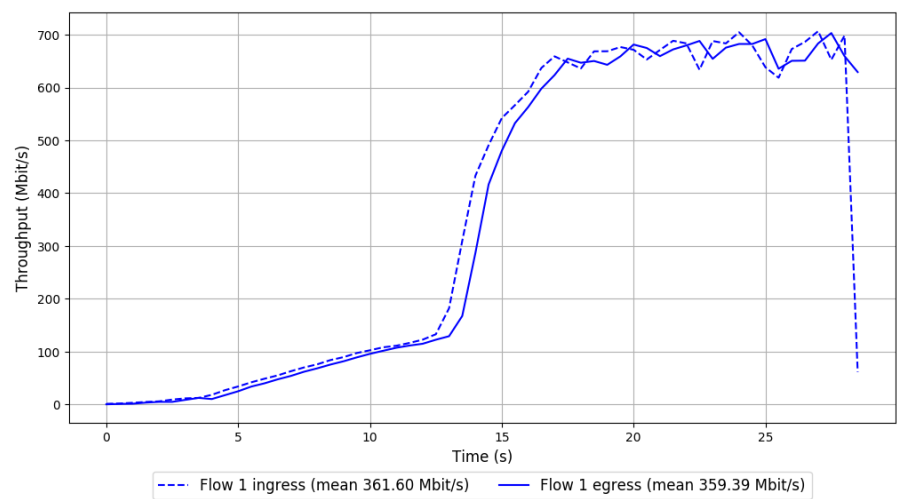
-- Flow 1:

Average throughput: 359.39 Mbit/s

95th percentile per-packet one-way delay: 104.991 ms

Loss rate: 1.21%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

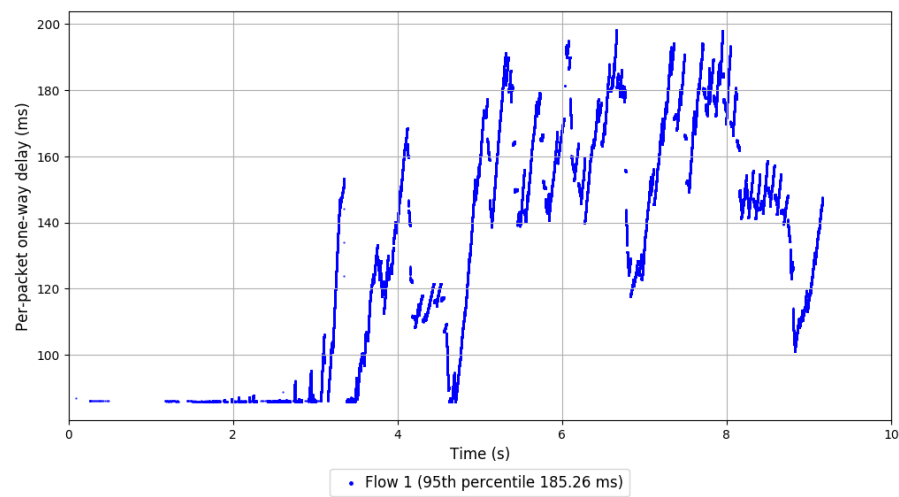
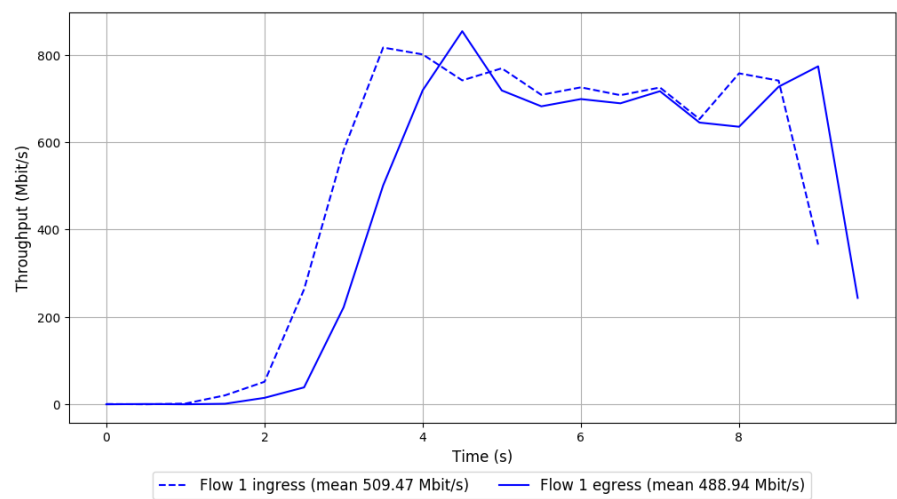
Start at: 2019-01-18 17:41:55

End at: 2019-01-18 17:42:25

Local clock offset: 10.405 ms

Remote clock offset: 8.999 ms

Run 1: Report of Indigo-MusesT — Data Link

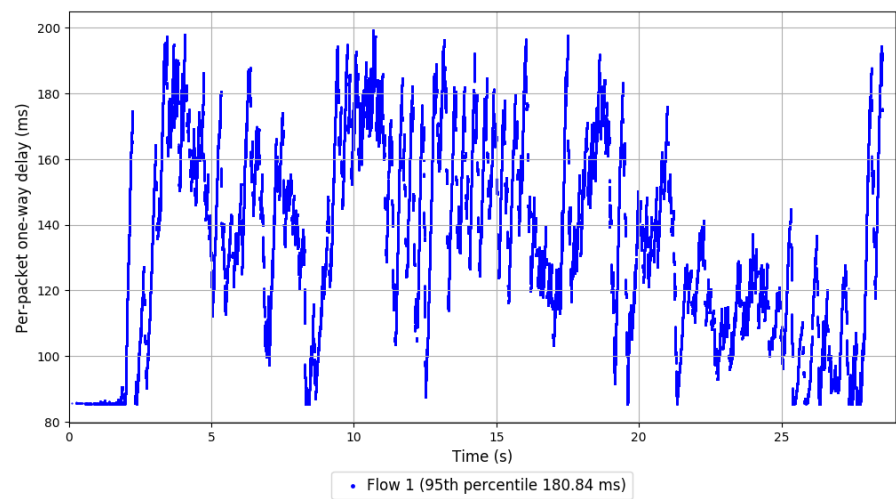
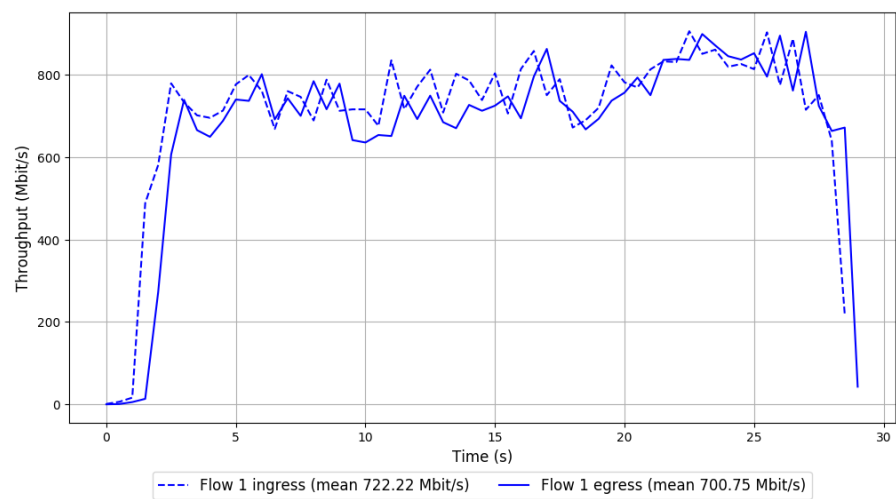


Run 2: Statistics of Indigo-MusesT

Start at: 2019-01-18 18:13:23  
End at: 2019-01-18 18:13:53  
Local clock offset: 20.962 ms  
Remote clock offset: 18.842 ms

# Below is generated by plot.py at 2019-01-18 21:47:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 700.75 Mbit/s  
95th percentile per-packet one-way delay: 180.837 ms  
Loss rate: 3.56%  
-- Flow 1:  
Average throughput: 700.75 Mbit/s  
95th percentile per-packet one-way delay: 180.837 ms  
Loss rate: 3.56%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-01-18 18:45:25

End at: 2019-01-18 18:45:55

Local clock offset: 22.994 ms

Remote clock offset: 20.21 ms

# Below is generated by plot.py at 2019-01-18 21:47:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 645.17 Mbit/s

95th percentile per-packet one-way delay: 183.525 ms

Loss rate: 5.76%

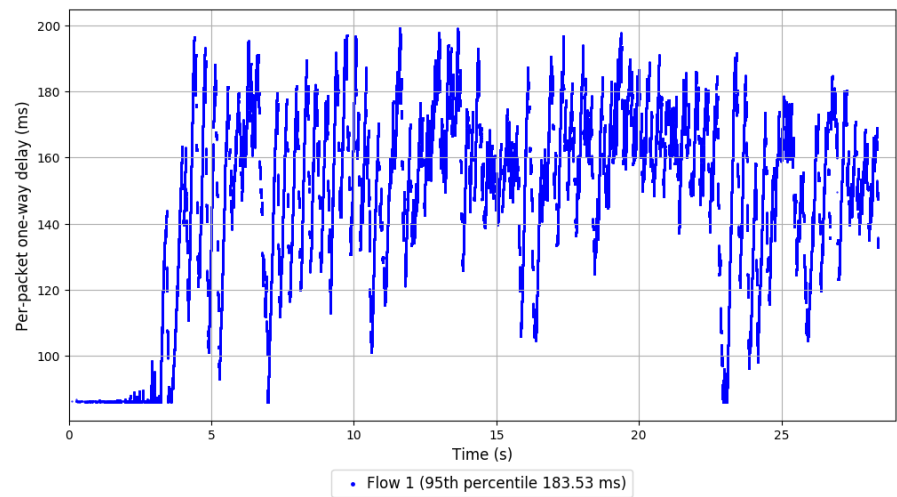
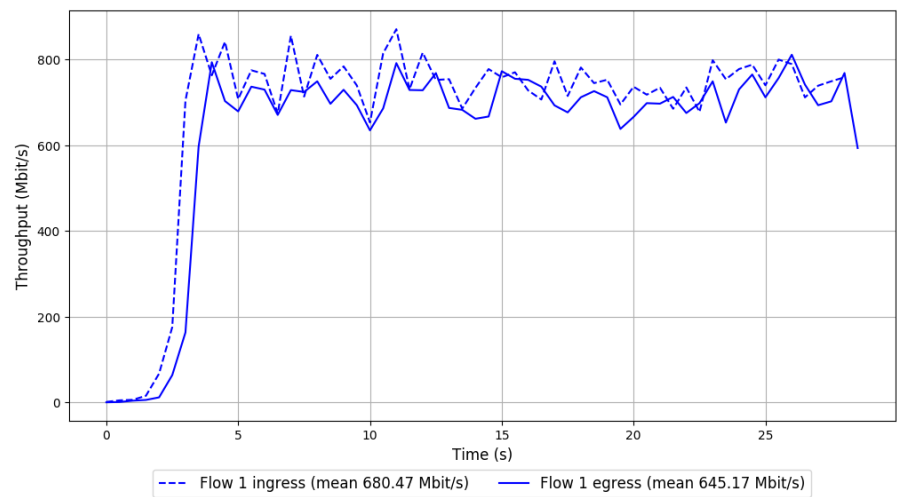
-- Flow 1:

Average throughput: 645.17 Mbit/s

95th percentile per-packet one-way delay: 183.525 ms

Loss rate: 5.76%

Run 3: Report of Indigo-MusesT — Data Link



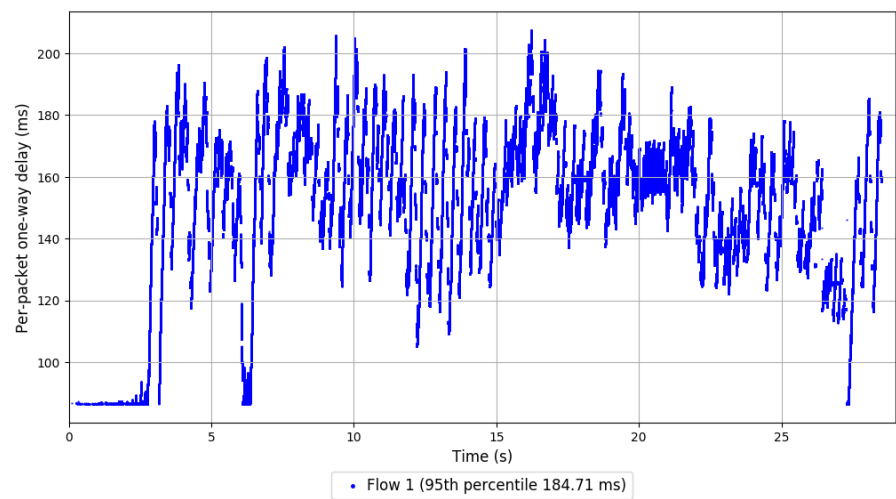
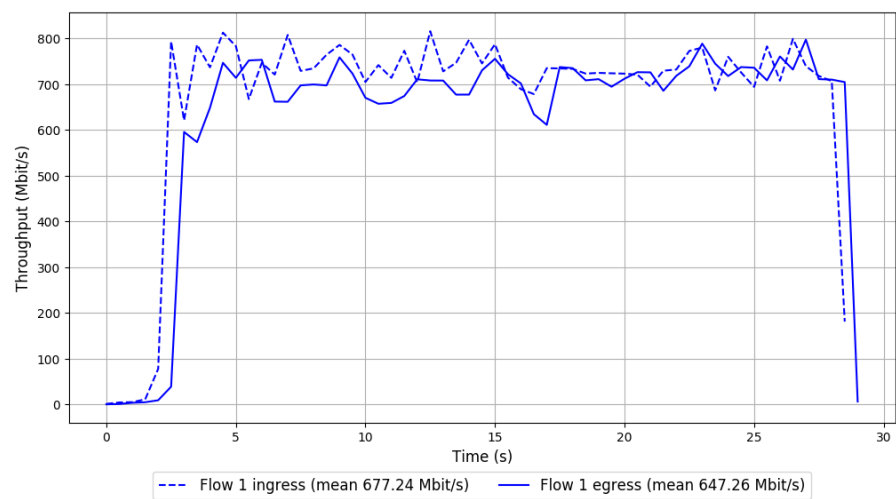


Run 4: Statistics of Indigo-MusesT

Start at: 2019-01-18 19:17:49  
End at: 2019-01-18 19:18:19  
Local clock offset: 13.674 ms  
Remote clock offset: 11.406 ms

# Below is generated by plot.py at 2019-01-18 21:47:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 647.26 Mbit/s  
95th percentile per-packet one-way delay: 184.707 ms  
Loss rate: 5.00%  
-- Flow 1:  
Average throughput: 647.26 Mbit/s  
95th percentile per-packet one-way delay: 184.707 ms  
Loss rate: 5.00%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-01-18 19:50:01

End at: 2019-01-18 19:50:31

Local clock offset: 7.003 ms

Remote clock offset: 6.46 ms

# Below is generated by plot.py at 2019-01-18 21:47:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 641.76 Mbit/s

95th percentile per-packet one-way delay: 188.099 ms

Loss rate: 5.86%

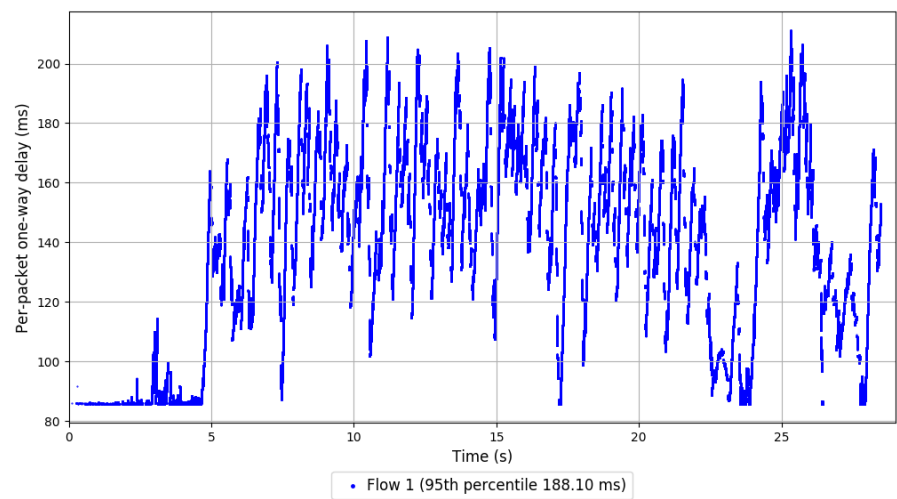
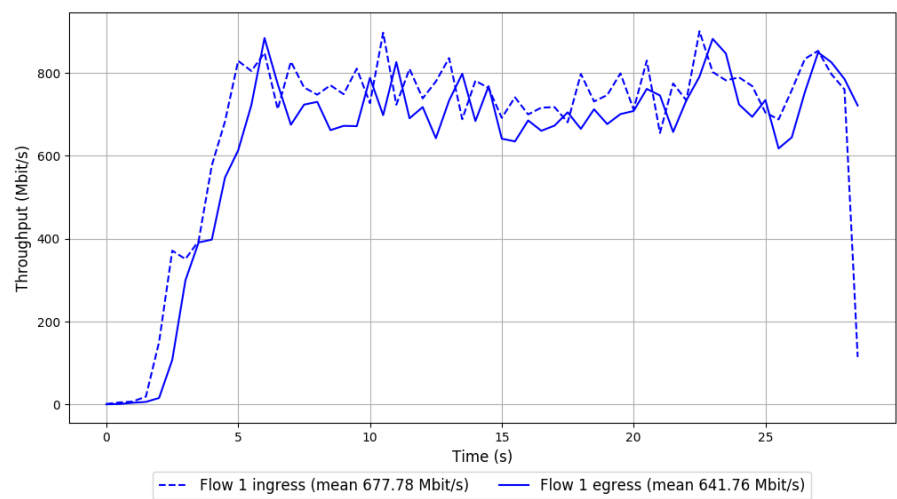
-- Flow 1:

Average throughput: 641.76 Mbit/s

95th percentile per-packet one-way delay: 188.099 ms

Loss rate: 5.86%

Run 5: Report of Indigo-MusesT — Data Link

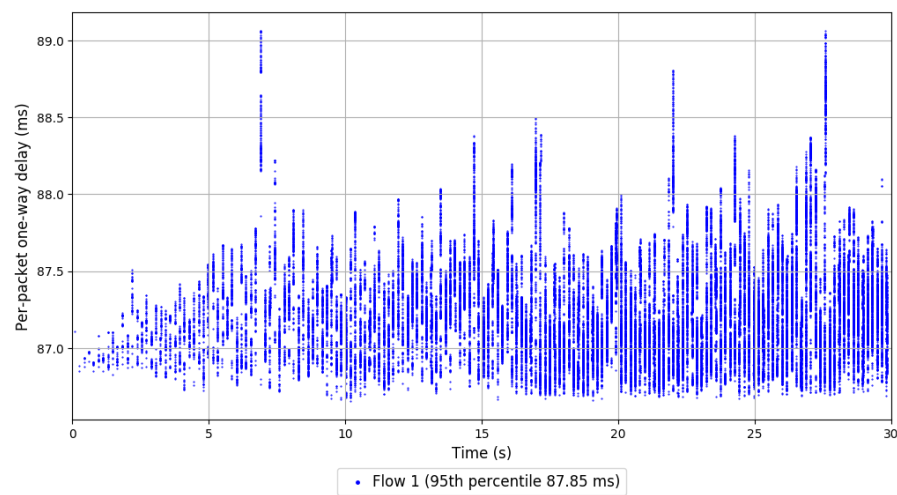
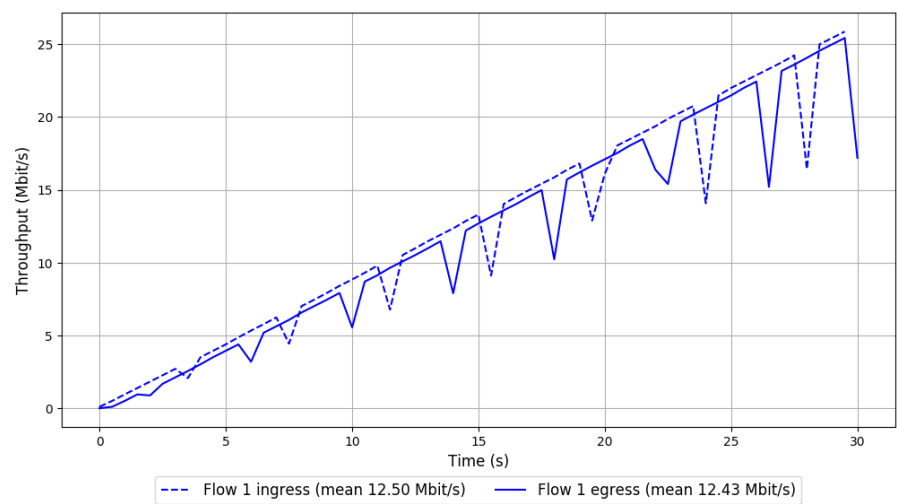


Run 1: Statistics of LEDBAT

Start at: 2019-01-18 17:39:02  
End at: 2019-01-18 17:39:32  
Local clock offset: 12.161 ms  
Remote clock offset: 10.008 ms

# Below is generated by plot.py at 2019-01-18 21:47:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.43 Mbit/s  
95th percentile per-packet one-way delay: 87.849 ms  
Loss rate: 1.16%  
-- Flow 1:  
Average throughput: 12.43 Mbit/s  
95th percentile per-packet one-way delay: 87.849 ms  
Loss rate: 1.16%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-01-18 18:10:29

End at: 2019-01-18 18:10:59

Local clock offset: 21.999 ms

Remote clock offset: 19.1 ms

# Below is generated by plot.py at 2019-01-18 21:47:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.56 Mbit/s

95th percentile per-packet one-way delay: 87.404 ms

Loss rate: 1.15%

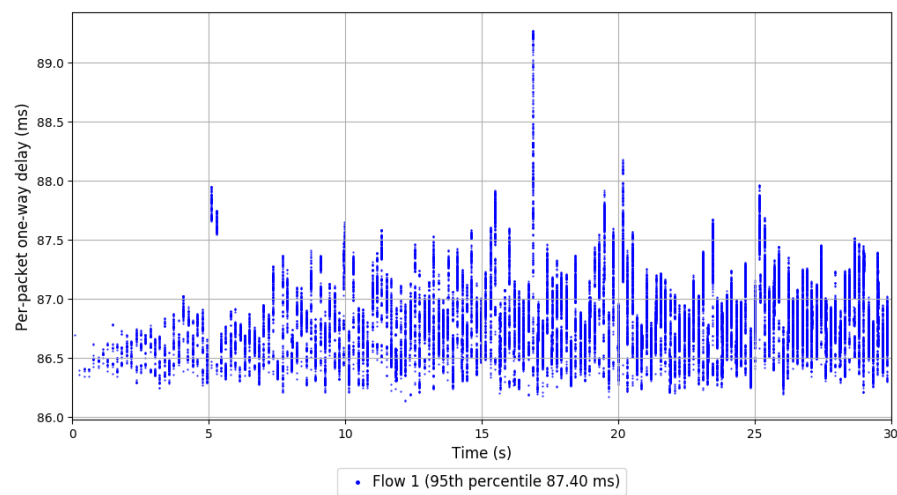
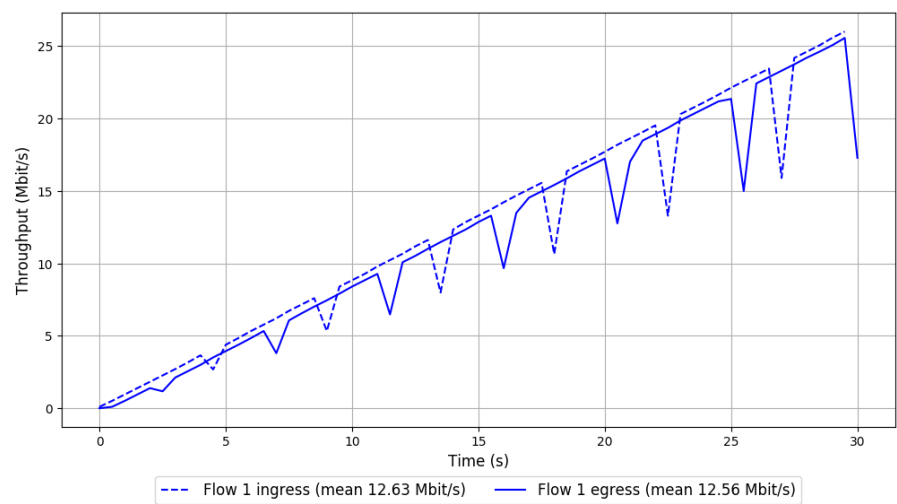
-- Flow 1:

Average throughput: 12.56 Mbit/s

95th percentile per-packet one-way delay: 87.404 ms

Loss rate: 1.15%

Run 2: Report of LEDBAT — Data Link



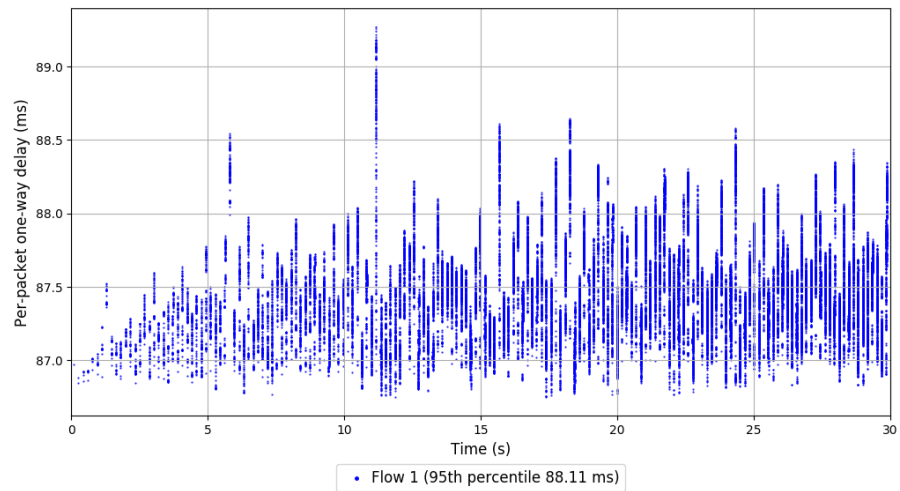
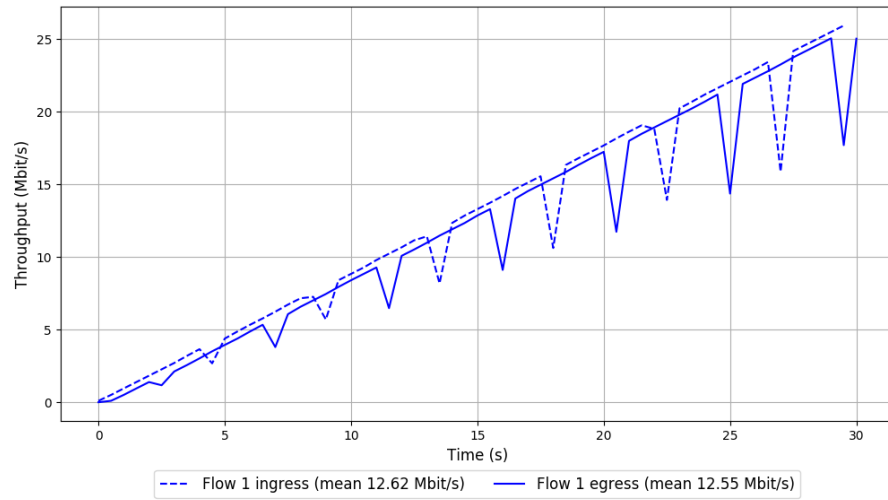


Run 3: Statistics of LEDBAT

Start at: 2019-01-18 18:42:34  
End at: 2019-01-18 18:43:04  
Local clock offset: 28.849 ms  
Remote clock offset: 25.148 ms

# Below is generated by plot.py at 2019-01-18 21:47:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.55 Mbit/s  
95th percentile per-packet one-way delay: 88.107 ms  
Loss rate: 1.15%  
-- Flow 1:  
Average throughput: 12.55 Mbit/s  
95th percentile per-packet one-way delay: 88.107 ms  
Loss rate: 1.15%

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

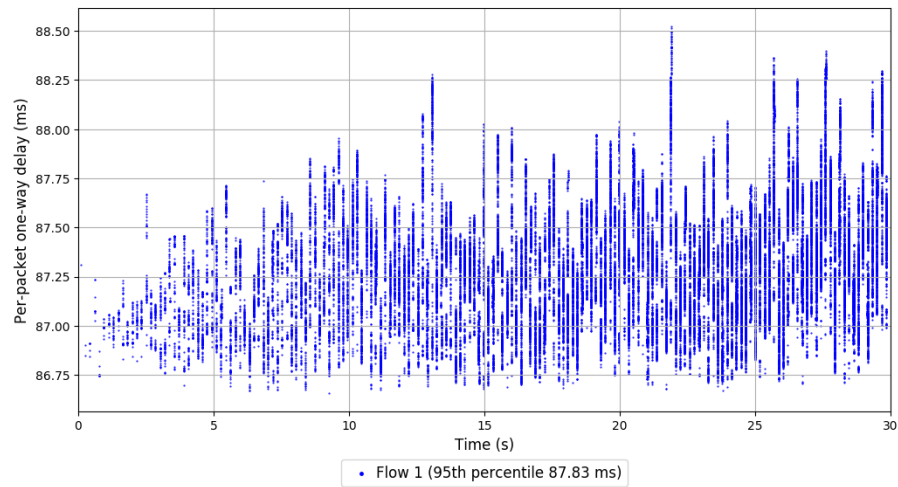
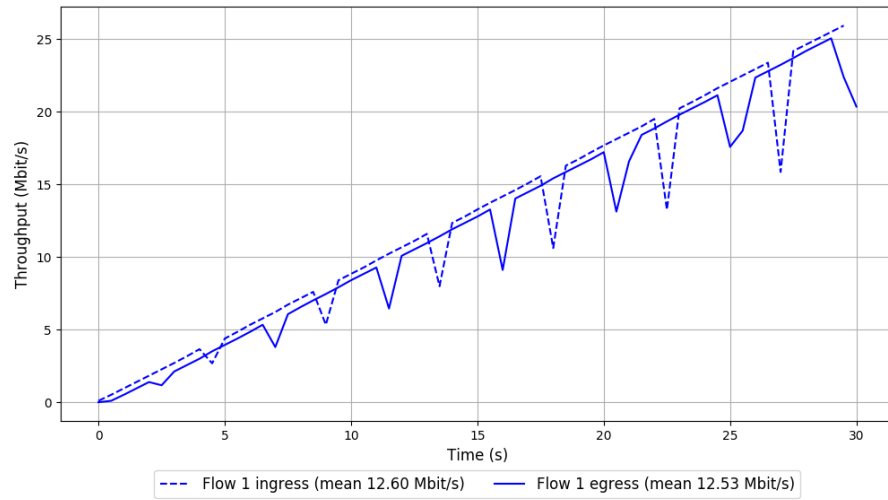


Run 4: Statistics of LEDBAT

Start at: 2019-01-18 19:14:46  
End at: 2019-01-18 19:15:16  
Local clock offset: 17.835 ms  
Remote clock offset: 15.046 ms

# Below is generated by plot.py at 2019-01-18 21:47:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.53 Mbit/s  
95th percentile per-packet one-way delay: 87.832 ms  
Loss rate: 1.15%  
-- Flow 1:  
Average throughput: 12.53 Mbit/s  
95th percentile per-packet one-way delay: 87.832 ms  
Loss rate: 1.15%

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



Run 5: Statistics of LEDBAT

Start at: 2019-01-18 19:46:56

End at: 2019-01-18 19:47:26

Local clock offset: 10.002 ms

Remote clock offset: 8.741 ms

# Below is generated by plot.py at 2019-01-18 21:47:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.57 Mbit/s

95th percentile per-packet one-way delay: 87.251 ms

Loss rate: 1.15%

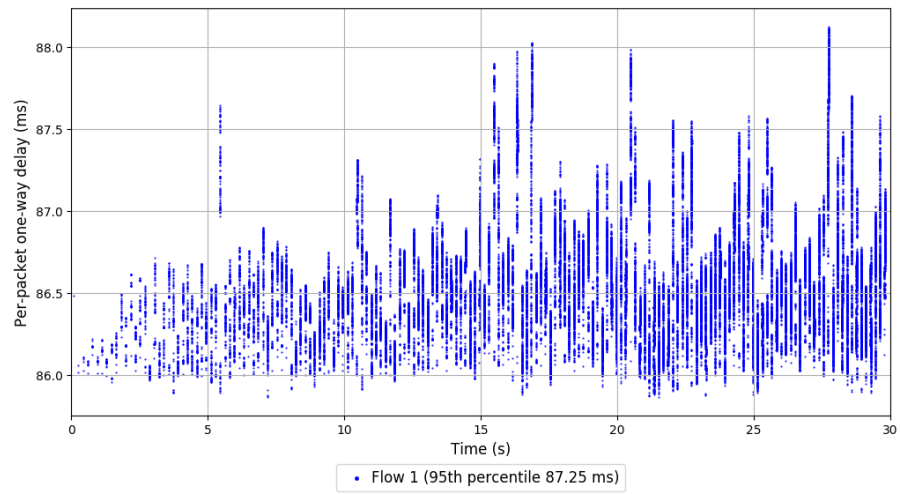
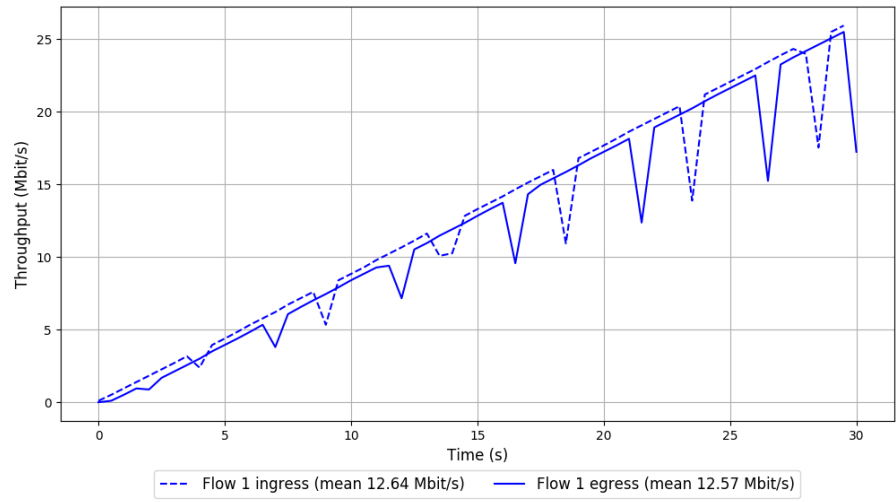
-- Flow 1:

Average throughput: 12.57 Mbit/s

95th percentile per-packet one-way delay: 87.251 ms

Loss rate: 1.15%

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

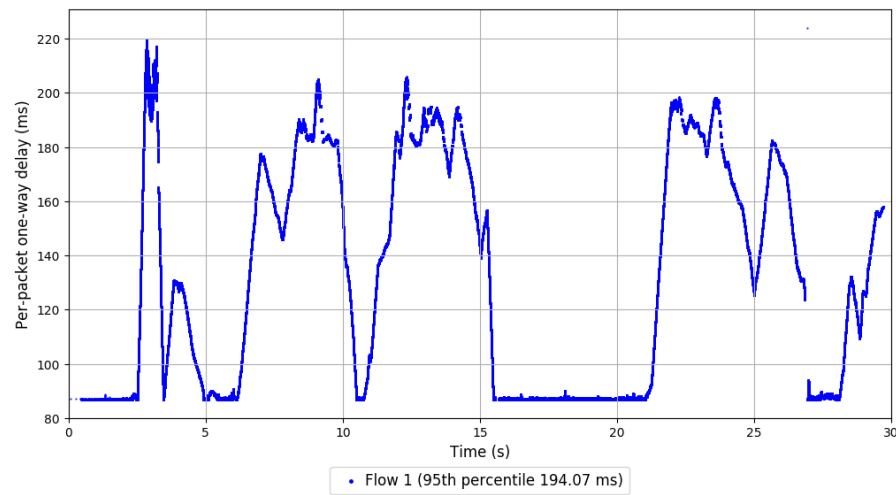
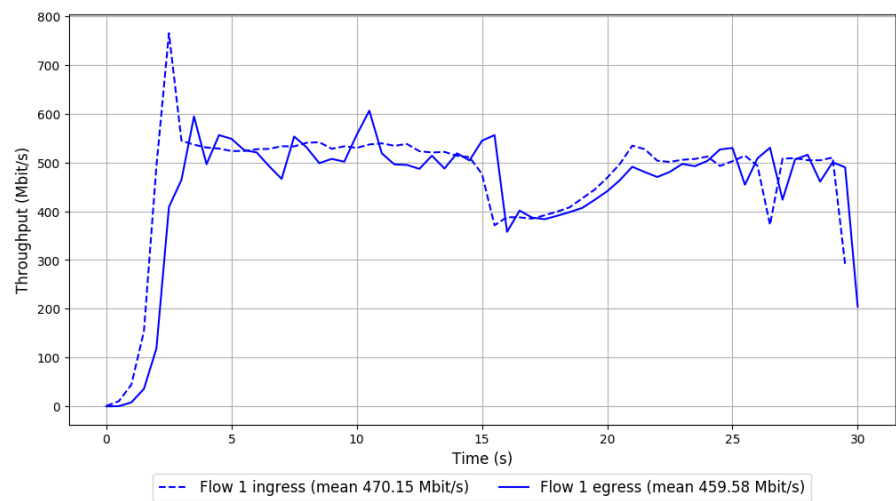


Run 1: Statistics of PCC-Allegro

Start at: 2019-01-18 17:47:58  
End at: 2019-01-18 17:48:28  
Local clock offset: 18.129 ms  
Remote clock offset: 14.985 ms

# Below is generated by plot.py at 2019-01-18 21:55:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 459.58 Mbit/s  
95th percentile per-packet one-way delay: 194.069 ms  
Loss rate: 2.82%  
-- Flow 1:  
Average throughput: 459.58 Mbit/s  
95th percentile per-packet one-way delay: 194.069 ms  
Loss rate: 2.82%

Run 1: Report of PCC-Allegro — Data Link





Run 2: Statistics of PCC-Allegro

Start at: 2019-01-18 18:19:54

End at: 2019-01-18 18:20:24

Local clock offset: 24.21 ms

Remote clock offset: 21.496 ms

# Below is generated by plot.py at 2019-01-18 21:55:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 459.27 Mbit/s

95th percentile per-packet one-way delay: 194.085 ms

Loss rate: 2.54%

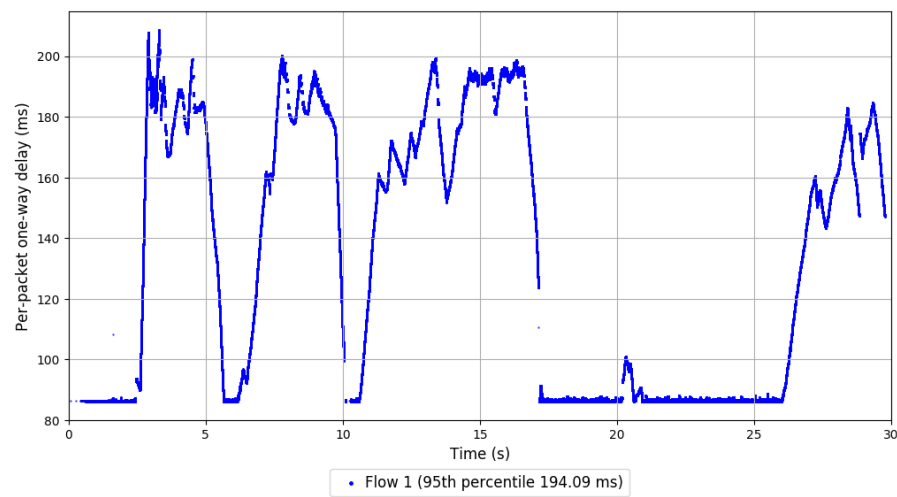
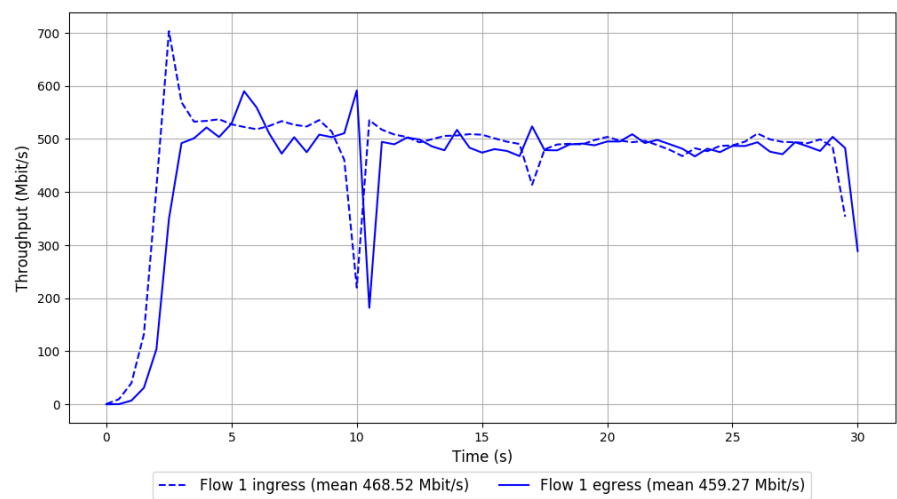
-- Flow 1:

Average throughput: 459.27 Mbit/s

95th percentile per-packet one-way delay: 194.085 ms

Loss rate: 2.54%

Run 2: Report of PCC-Allegro — Data Link

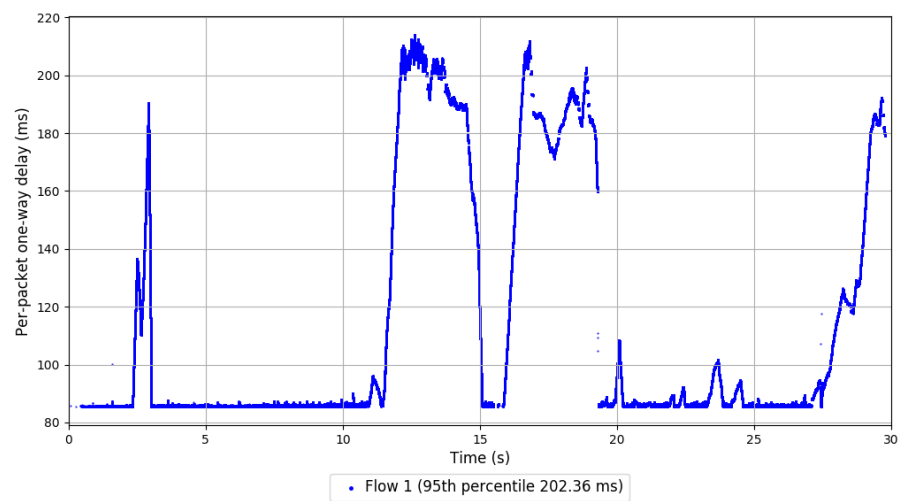
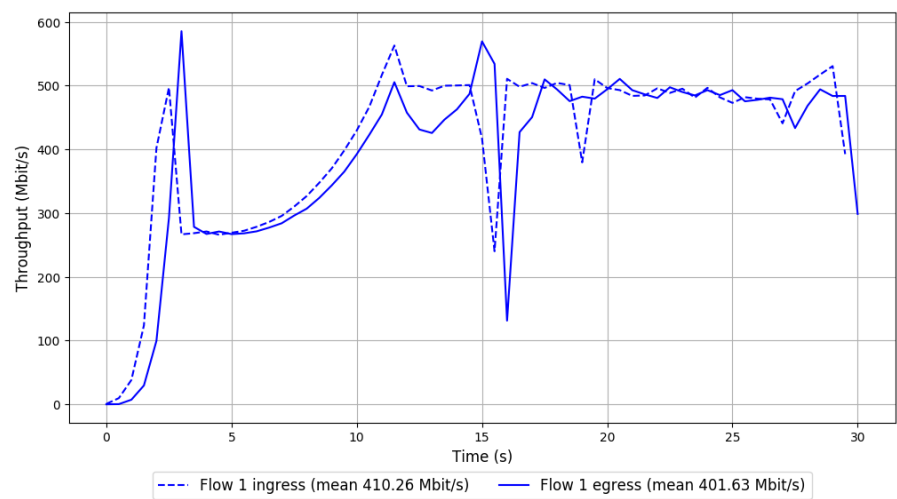


Run 3: Statistics of PCC-Allegro

Start at: 2019-01-18 18:51:57  
End at: 2019-01-18 18:52:27  
Local clock offset: 16.597 ms  
Remote clock offset: 15.031 ms

# Below is generated by plot.py at 2019-01-18 21:55:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 401.63 Mbit/s  
95th percentile per-packet one-way delay: 202.356 ms  
Loss rate: 2.67%  
-- Flow 1:  
Average throughput: 401.63 Mbit/s  
95th percentile per-packet one-way delay: 202.356 ms  
Loss rate: 2.67%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-01-18 19:24:33

End at: 2019-01-18 19:25:03

Local clock offset: 9.256 ms

Remote clock offset: 7.776 ms

# Below is generated by plot.py at 2019-01-18 21:55:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 421.04 Mbit/s

95th percentile per-packet one-way delay: 196.284 ms

Loss rate: 3.15%

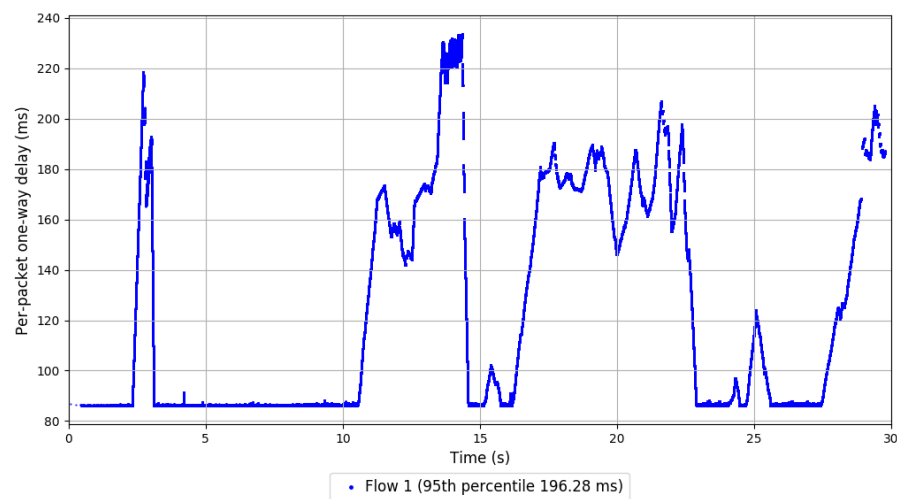
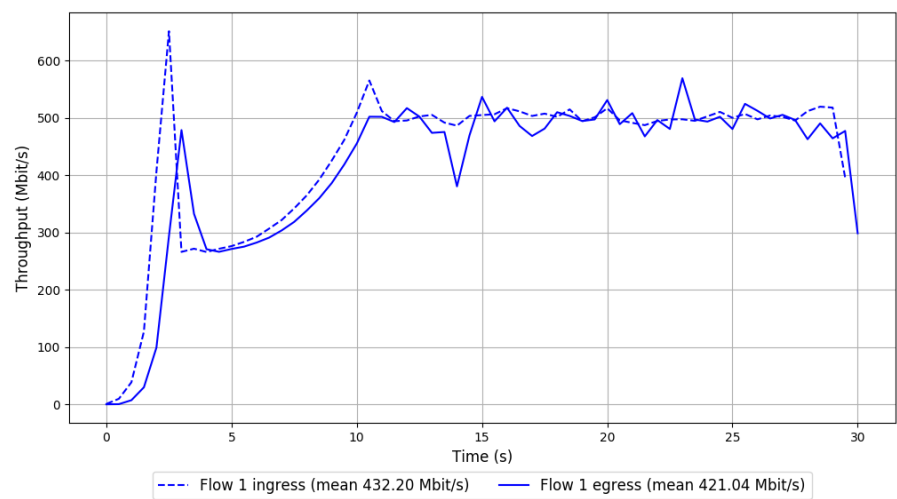
-- Flow 1:

Average throughput: 421.04 Mbit/s

95th percentile per-packet one-way delay: 196.284 ms

Loss rate: 3.15%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-01-18 19:56:42

End at: 2019-01-18 19:57:12

Local clock offset: 3.705 ms

Remote clock offset: 4.063 ms

# Below is generated by plot.py at 2019-01-18 22:03:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 411.27 Mbit/s

95th percentile per-packet one-way delay: 167.512 ms

Loss rate: 1.53%

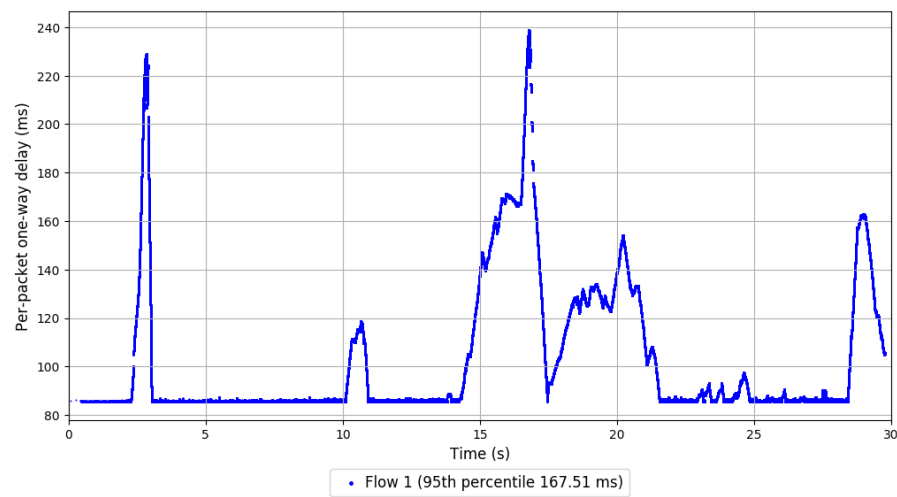
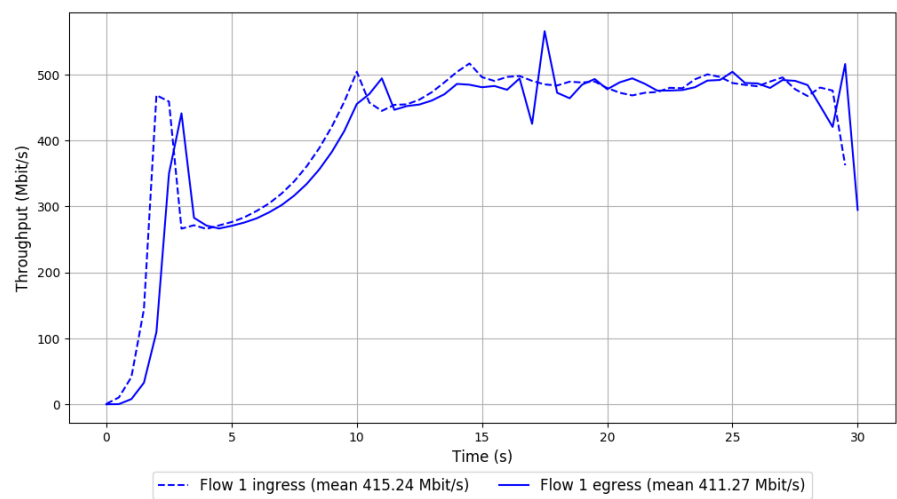
-- Flow 1:

Average throughput: 411.27 Mbit/s

95th percentile per-packet one-way delay: 167.512 ms

Loss rate: 1.53%

Run 5: Report of PCC-Allegro — Data Link





Run 1: Statistics of PCC-Expr

Start at: 2019-01-18 17:40:13

End at: 2019-01-18 17:40:43

Local clock offset: 9.775 ms

Remote clock offset: 8.396 ms

# Below is generated by plot.py at 2019-01-18 22:03:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 355.13 Mbit/s

95th percentile per-packet one-way delay: 157.523 ms

Loss rate: 1.42%

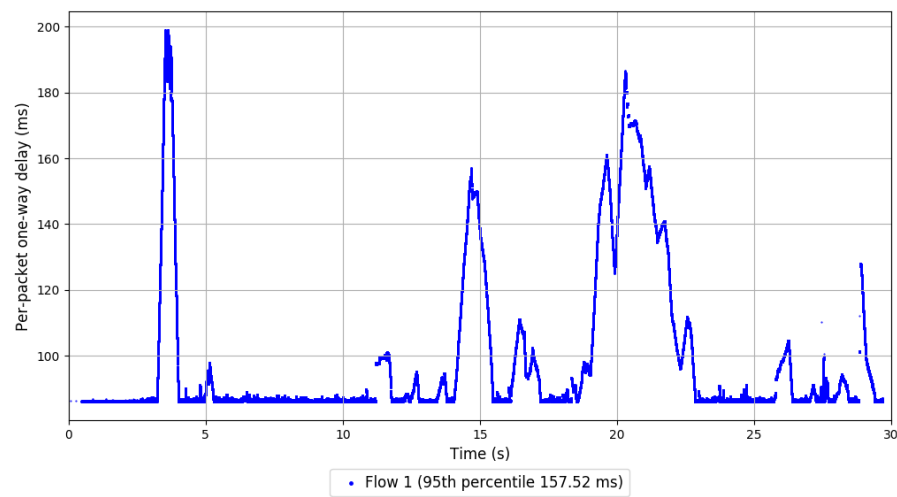
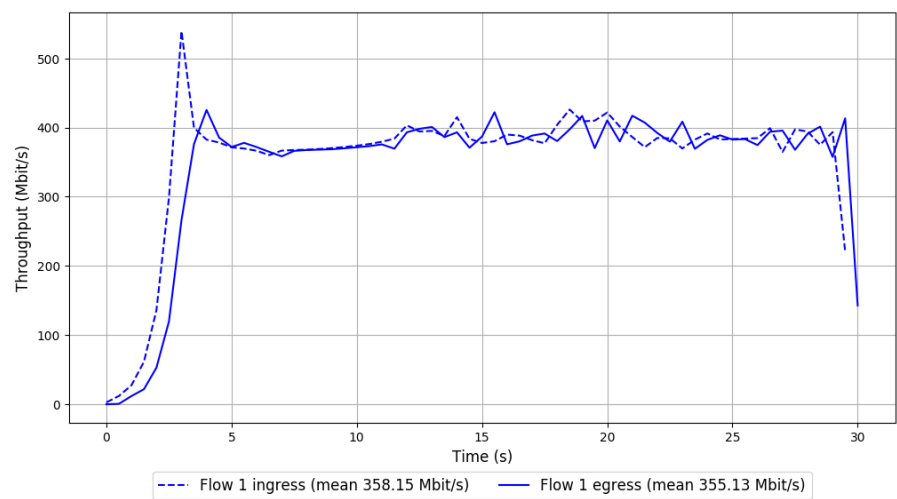
-- Flow 1:

Average throughput: 355.13 Mbit/s

95th percentile per-packet one-way delay: 157.523 ms

Loss rate: 1.42%

Run 1: Report of PCC-Expr — Data Link

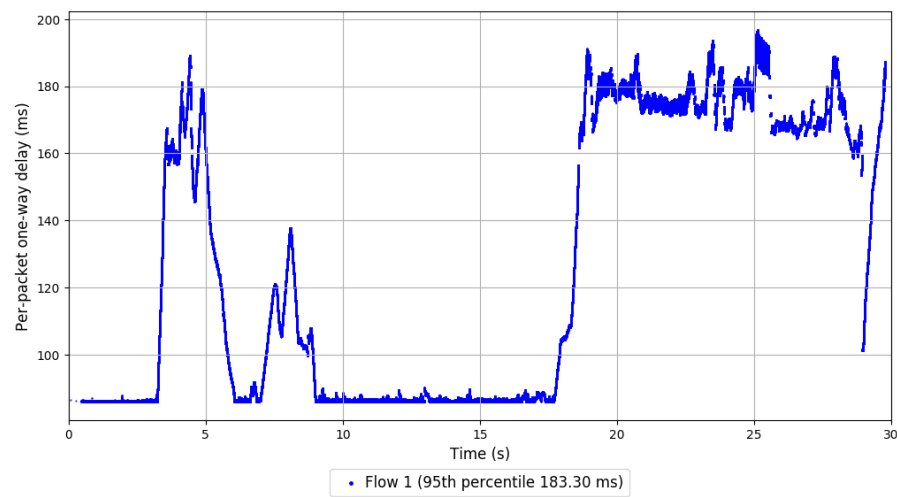
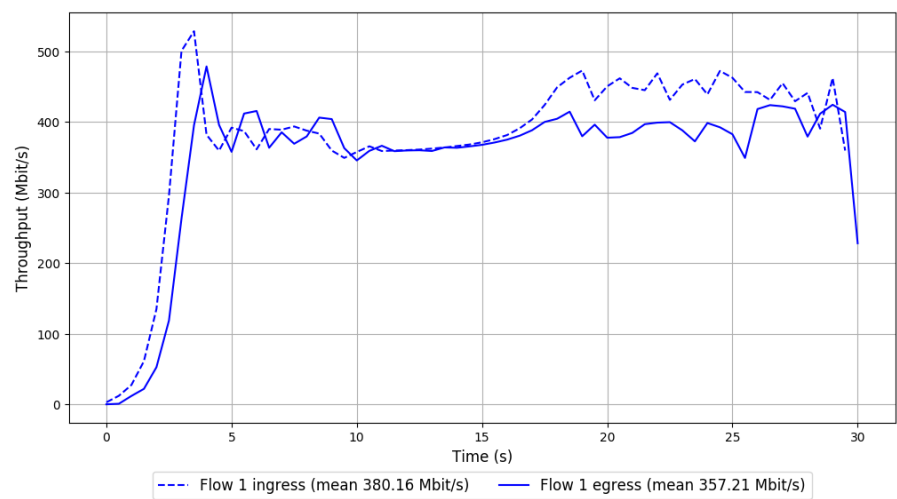


Run 2: Statistics of PCC-Expr

Start at: 2019-01-18 18:11:39  
End at: 2019-01-18 18:12:09  
Local clock offset: 20.917 ms  
Remote clock offset: 18.958 ms

# Below is generated by plot.py at 2019-01-18 22:03:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 357.21 Mbit/s  
95th percentile per-packet one-way delay: 183.299 ms  
Loss rate: 6.59%  
-- Flow 1:  
Average throughput: 357.21 Mbit/s  
95th percentile per-packet one-way delay: 183.299 ms  
Loss rate: 6.59%

Run 2: Report of PCC-Expr — Data Link

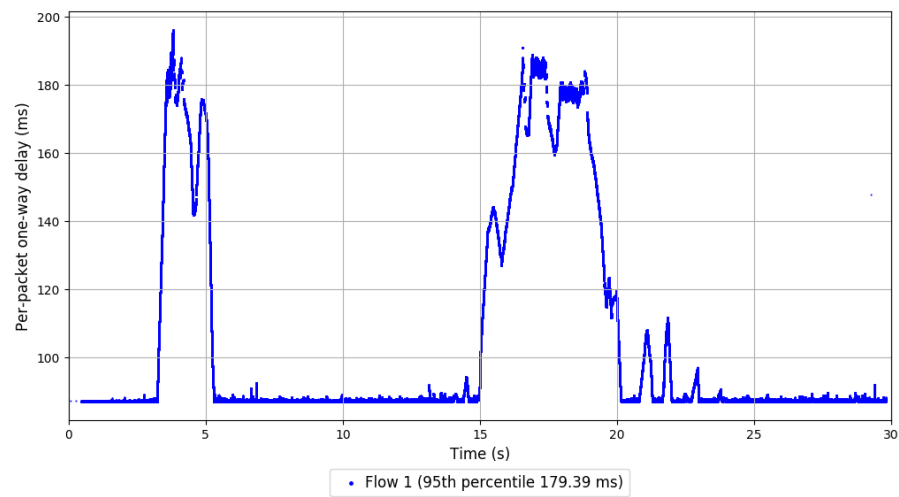
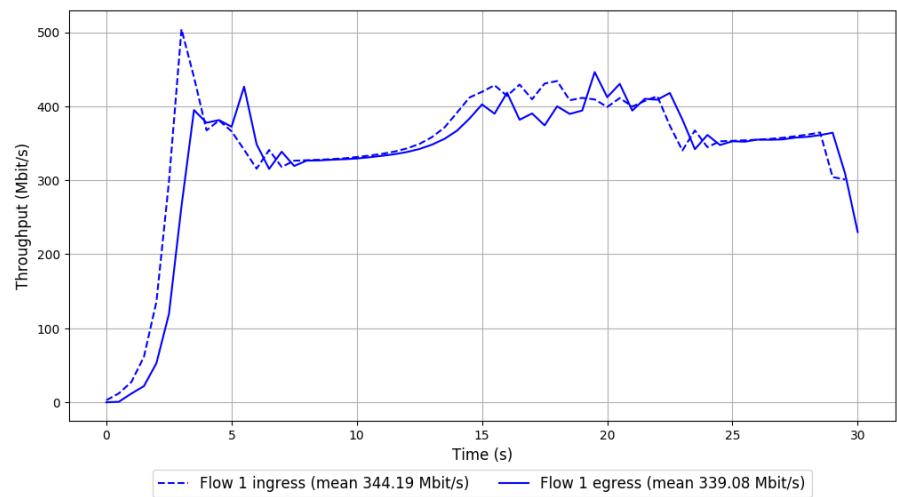


Run 3: Statistics of PCC-Expr

Start at: 2019-01-18 18:43:44  
End at: 2019-01-18 18:44:14  
Local clock offset: 26.576 ms  
Remote clock offset: 22.752 ms

# Below is generated by plot.py at 2019-01-18 22:03:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 339.08 Mbit/s  
95th percentile per-packet one-way delay: 179.388 ms  
Loss rate: 2.05%  
-- Flow 1:  
Average throughput: 339.08 Mbit/s  
95th percentile per-packet one-way delay: 179.388 ms  
Loss rate: 2.05%

Run 3: Report of PCC-Expr — Data Link

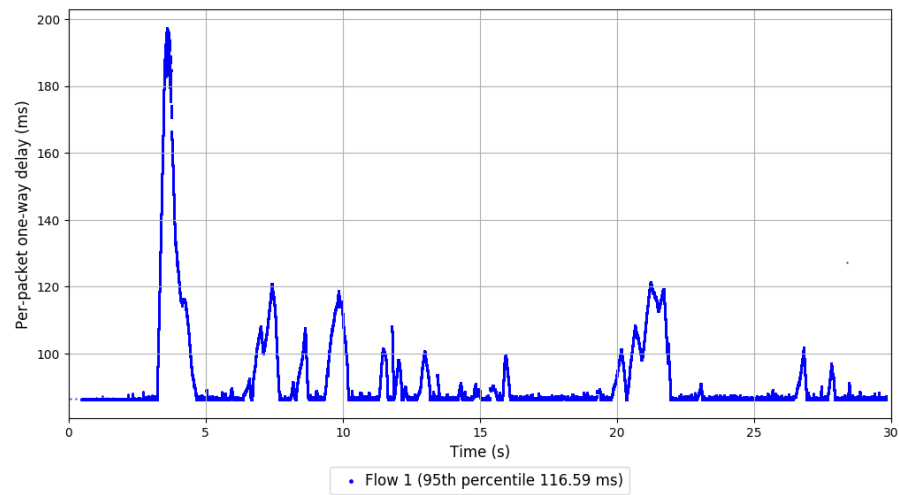
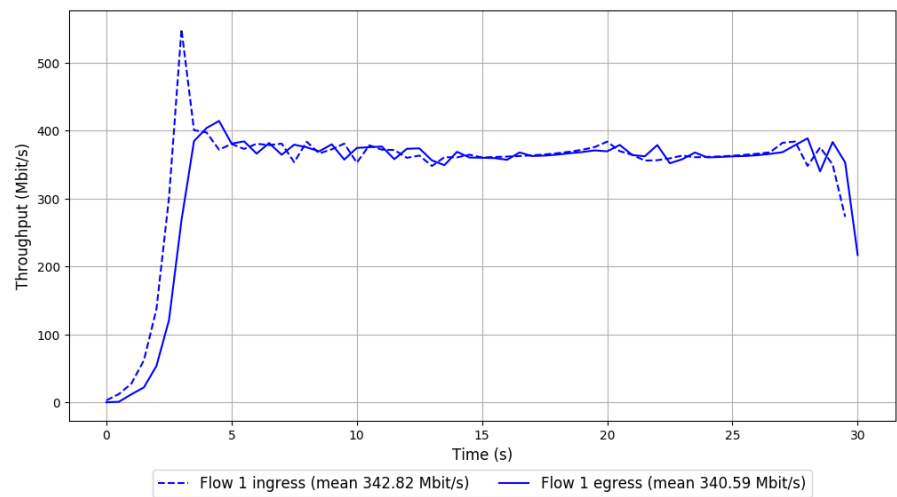


Run 4: Statistics of PCC-Expr

Start at: 2019-01-18 19:15:57  
End at: 2019-01-18 19:16:27  
Local clock offset: 15.684 ms  
Remote clock offset: 13.501 ms

# Below is generated by plot.py at 2019-01-18 22:08:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 340.59 Mbit/s  
95th percentile per-packet one-way delay: 116.587 ms  
Loss rate: 1.23%  
-- Flow 1:  
Average throughput: 340.59 Mbit/s  
95th percentile per-packet one-way delay: 116.587 ms  
Loss rate: 1.23%

Run 4: Report of PCC-Expr — Data Link





Run 5: Statistics of PCC-Expr

Start at: 2019-01-18 19:48:07

End at: 2019-01-18 19:48:37

Local clock offset: 9.12 ms

Remote clock offset: 7.76 ms

# Below is generated by plot.py at 2019-01-18 22:09:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 346.49 Mbit/s

95th percentile per-packet one-way delay: 183.243 ms

Loss rate: 2.32%

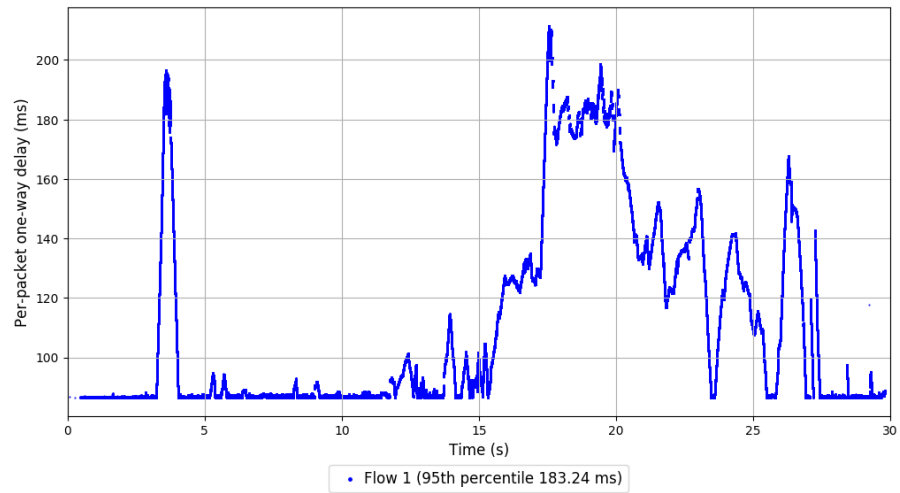
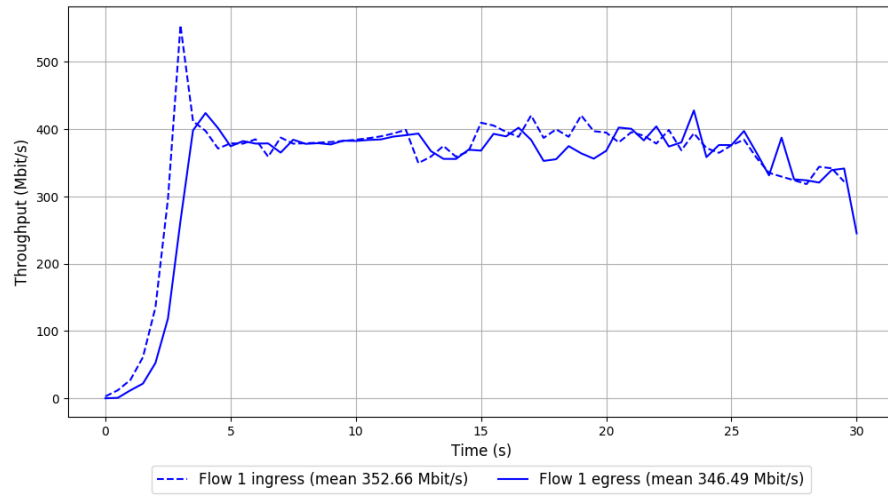
-- Flow 1:

Average throughput: 346.49 Mbit/s

95th percentile per-packet one-way delay: 183.243 ms

Loss rate: 2.32%

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



Run 1: Statistics of QUIC Cubic

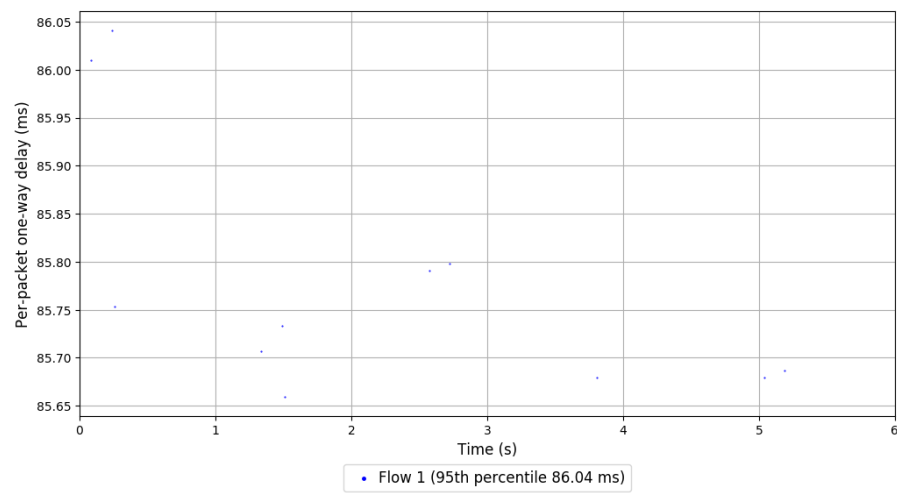
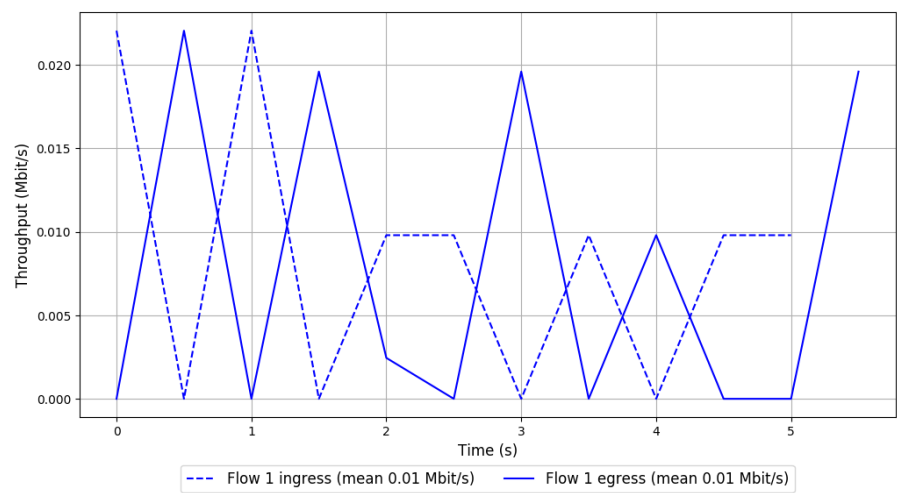
Start at: 2019-01-18 17:51:14

End at: 2019-01-18 17:51:44

Local clock offset: 13.993 ms

Remote clock offset: 12.55 ms

Run 1: Report of QUIC Cubic — Data Link

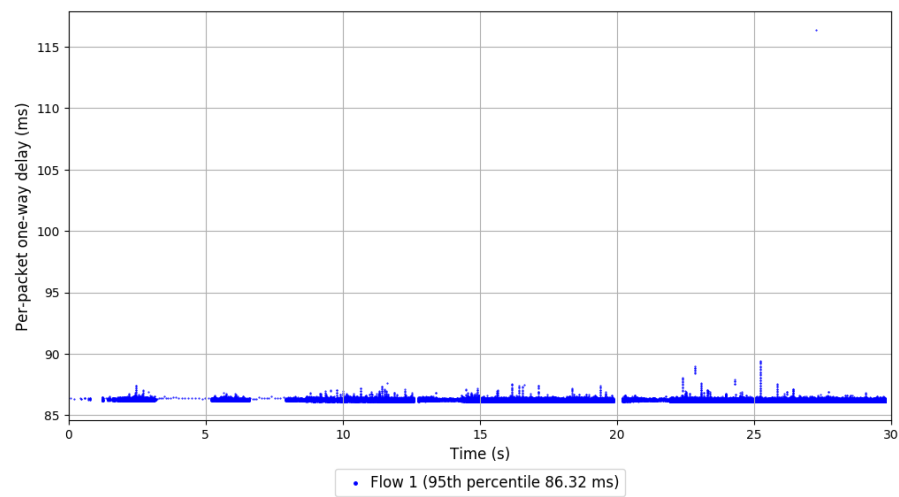
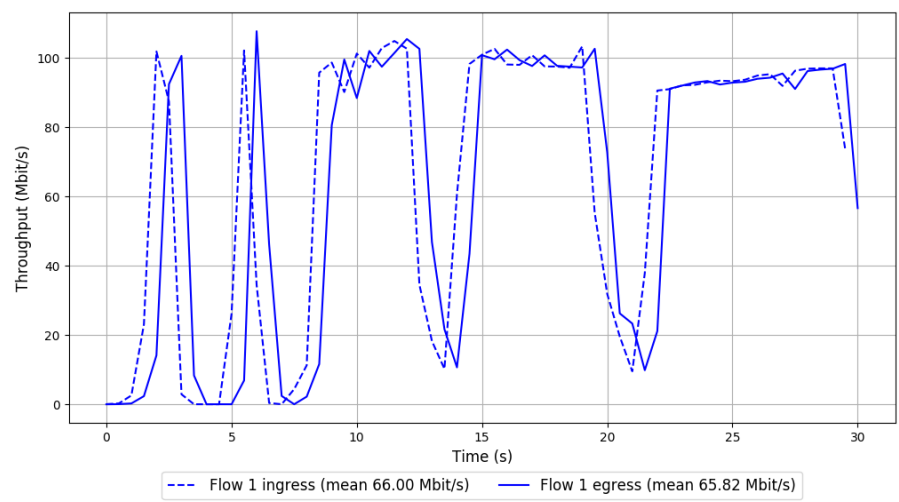


Run 2: Statistics of QUIC Cubic

Start at: 2019-01-18 18:23:08  
End at: 2019-01-18 18:23:38  
Local clock offset: 26.967 ms  
Remote clock offset: 23.861 ms

# Below is generated by plot.py at 2019-01-18 22:09:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 65.82 Mbit/s  
95th percentile per-packet one-way delay: 86.319 ms  
Loss rate: 0.85%  
-- Flow 1:  
Average throughput: 65.82 Mbit/s  
95th percentile per-packet one-way delay: 86.319 ms  
Loss rate: 0.85%

Run 2: Report of QUIC Cubic — Data Link

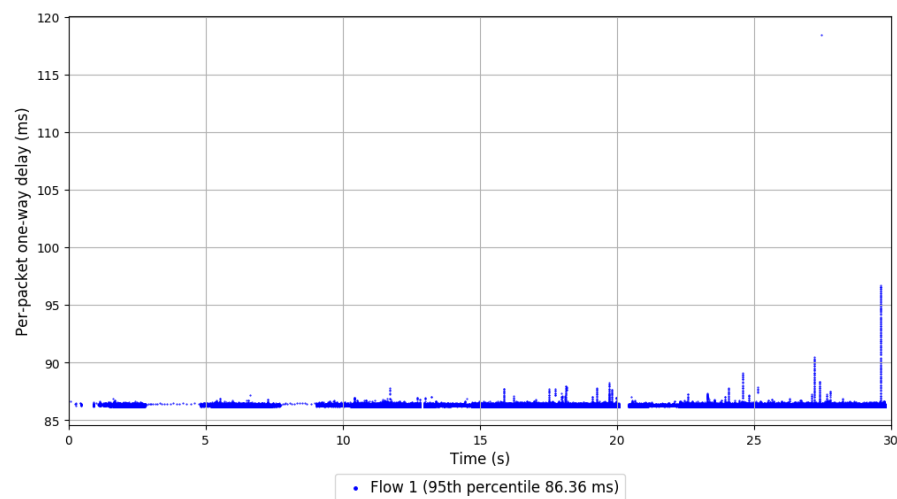
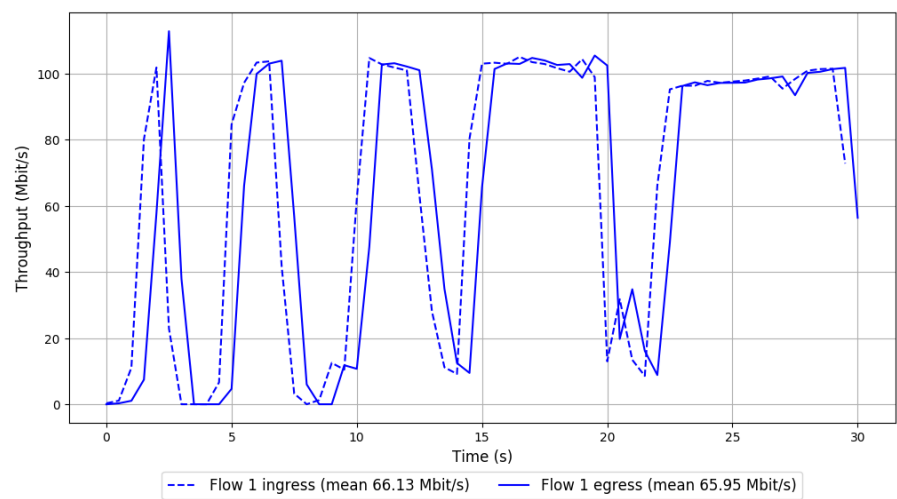


Run 3: Statistics of QUIC Cubic

Start at: 2019-01-18 18:55:21  
End at: 2019-01-18 18:55:51  
Local clock offset: 15.937 ms  
Remote clock offset: 14.387 ms

# Below is generated by plot.py at 2019-01-18 22:09:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 65.95 Mbit/s  
95th percentile per-packet one-way delay: 86.356 ms  
Loss rate: 0.85%  
-- Flow 1:  
Average throughput: 65.95 Mbit/s  
95th percentile per-packet one-way delay: 86.356 ms  
Loss rate: 0.85%

Run 3: Report of QUIC Cubic — Data Link





Run 4: Statistics of QUIC Cubic

Start at: 2019-01-18 19:27:45

End at: 2019-01-18 19:28:15

Local clock offset: 8.586 ms

Remote clock offset: 7.129 ms

# Below is generated by plot.py at 2019-01-18 22:09:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 66.67 Mbit/s

95th percentile per-packet one-way delay: 86.313 ms

Loss rate: 0.87%

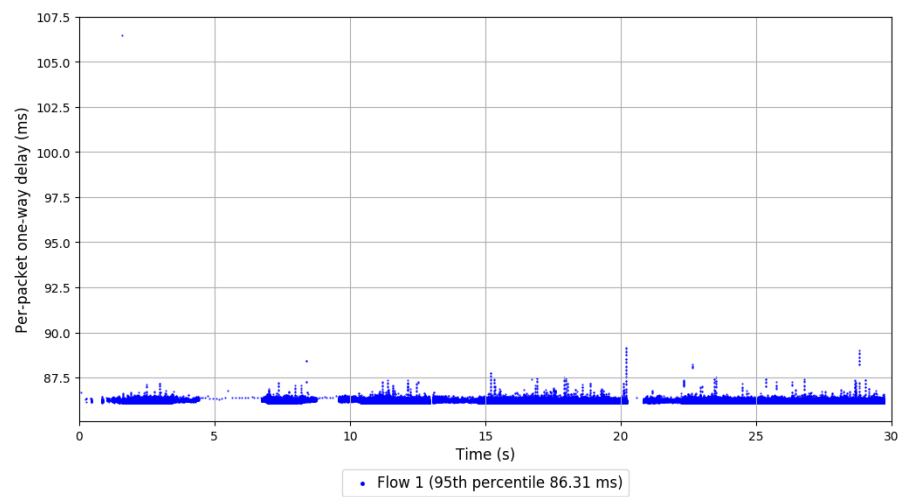
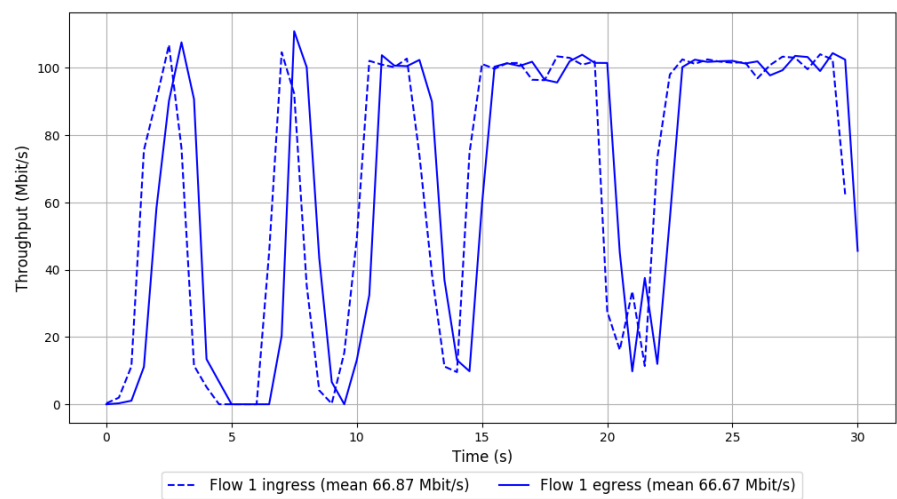
-- Flow 1:

Average throughput: 66.67 Mbit/s

95th percentile per-packet one-way delay: 86.313 ms

Loss rate: 0.87%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-01-18 20:00:07

End at: 2019-01-18 20:00:37

Local clock offset: 3.135 ms

Remote clock offset: 3.52 ms

# Below is generated by plot.py at 2019-01-18 22:09:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 55.43 Mbit/s

95th percentile per-packet one-way delay: 86.437 ms

Loss rate: 0.99%

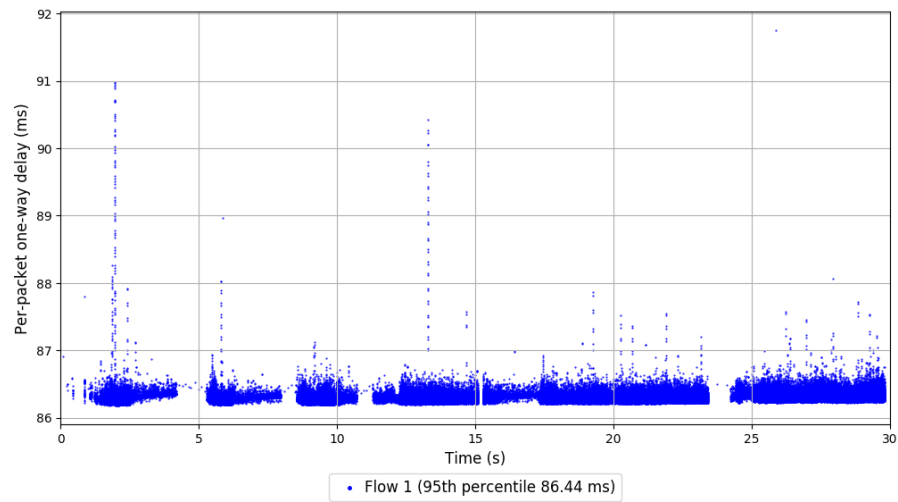
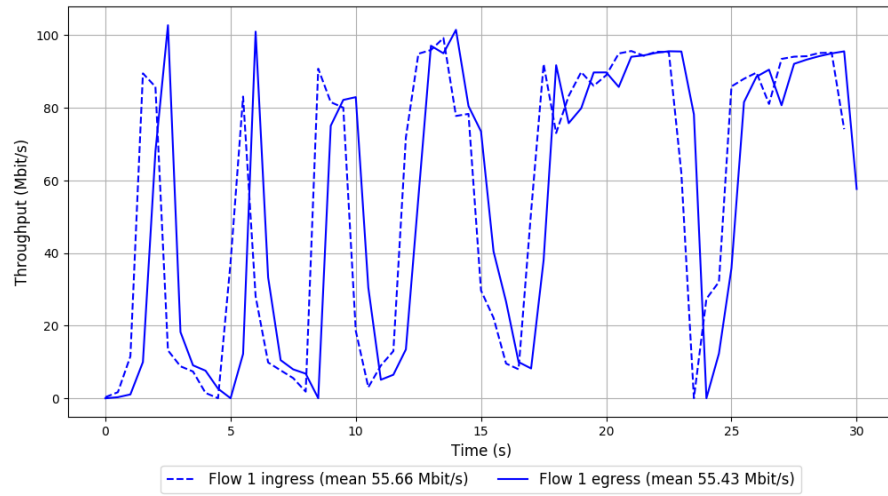
-- Flow 1:

Average throughput: 55.43 Mbit/s

95th percentile per-packet one-way delay: 86.437 ms

Loss rate: 0.99%

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

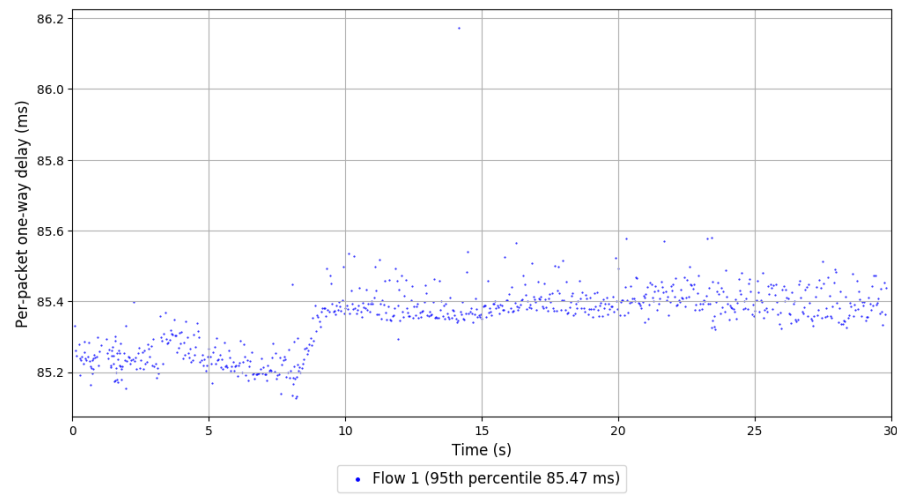
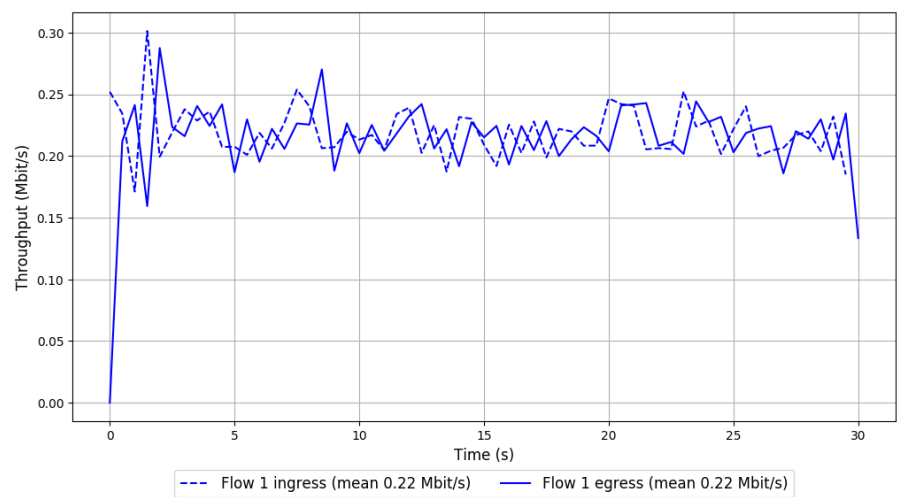


```
Run 1: Statistics of SCReAM

Start at: 2019-01-18 17:31:44
End at: 2019-01-18 17:32:14
Local clock offset: 3.687 ms
Remote clock offset: 3.792 ms

# Below is generated by plot.py at 2019-01-18 22:09:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.467 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.467 ms
Loss rate: 0.64%
```

Run 1: Report of SReAM — Data Link

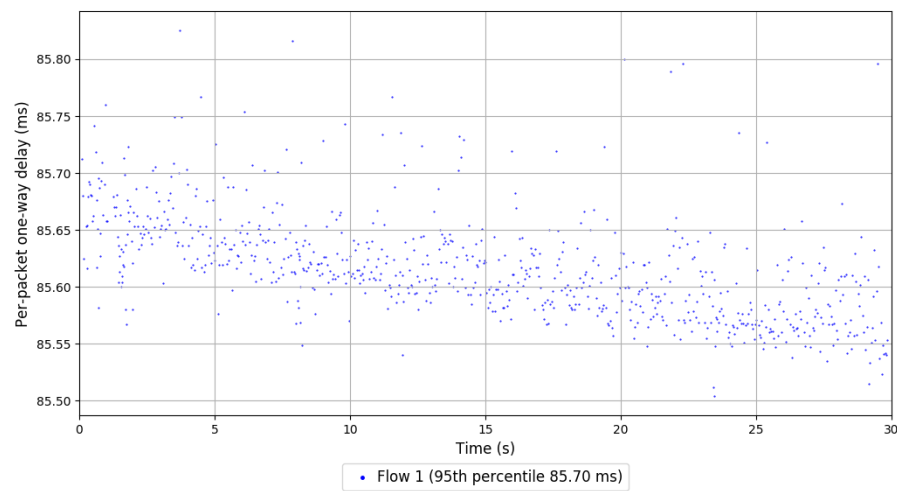
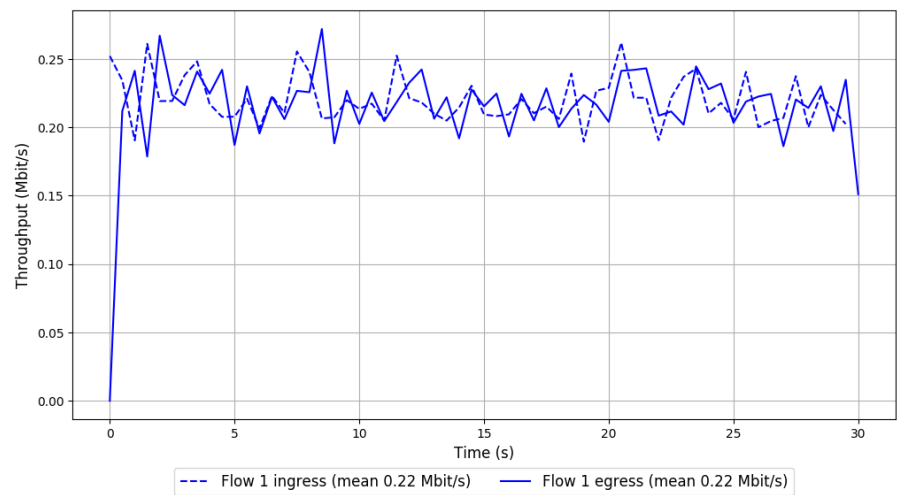


Run 2: Statistics of SCReAM

Start at: 2019-01-18 18:03:11  
End at: 2019-01-18 18:03:41  
Local clock offset: 27.298 ms  
Remote clock offset: 24.348 ms

# Below is generated by plot.py at 2019-01-18 22:09:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 85.703 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 85.703 ms  
Loss rate: 0.64%

Run 2: Report of SReAM — Data Link



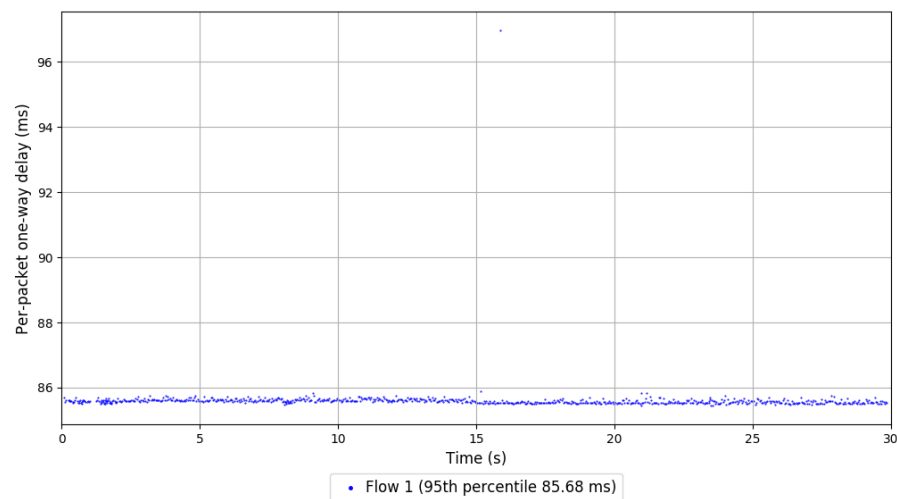
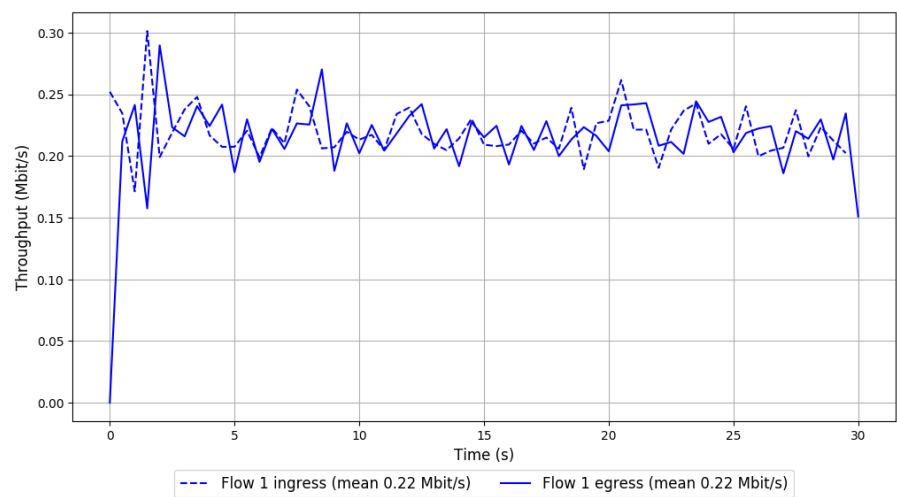


Run 3: Statistics of SCReAM

Start at: 2019-01-18 18:34:57  
End at: 2019-01-18 18:35:27  
Local clock offset: 39.041 ms  
Remote clock offset: 34.876 ms

# Below is generated by plot.py at 2019-01-18 22:09:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 85.683 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 85.683 ms  
Loss rate: 0.64%

Run 3: Report of SReAM — Data Link

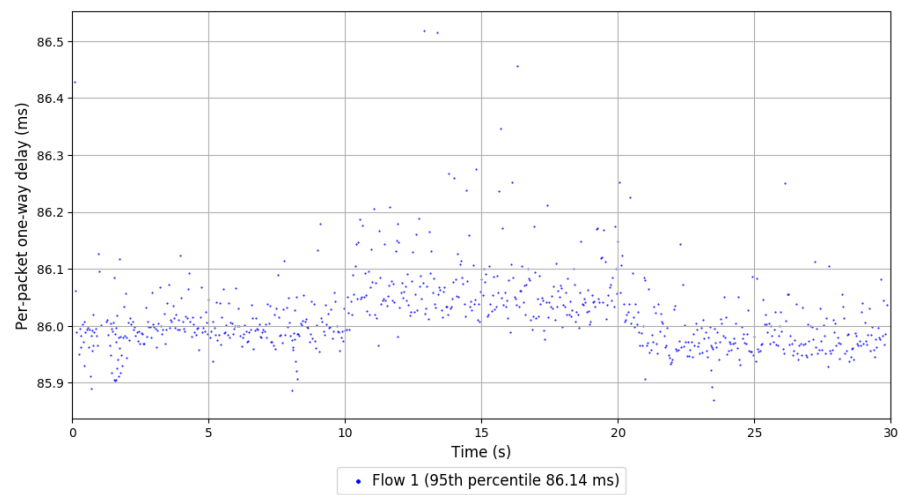
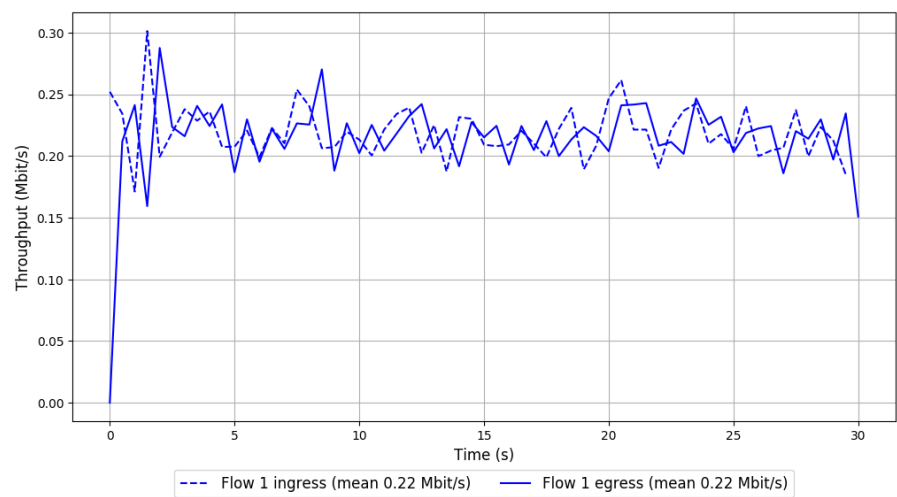


Run 4: Statistics of SCReAM

Start at: 2019-01-18 19:07:27  
End at: 2019-01-18 19:07:57  
Local clock offset: 19.429 ms  
Remote clock offset: 17.116 ms

# Below is generated by plot.py at 2019-01-18 22:09:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.144 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.144 ms  
Loss rate: 0.51%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-01-18 19:39:36

End at: 2019-01-18 19:40:06

Local clock offset: 9.385 ms

Remote clock offset: 7.864 ms

# Below is generated by plot.py at 2019-01-18 22:09:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.384 ms

Loss rate: 0.64%

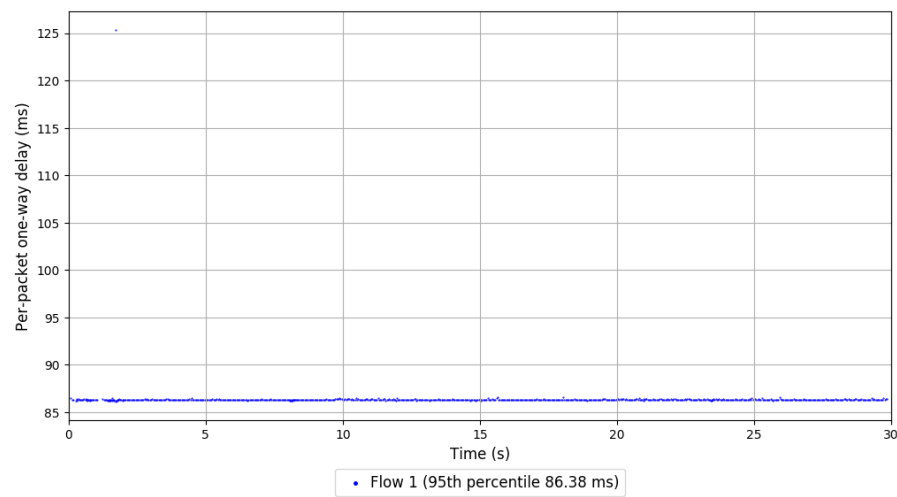
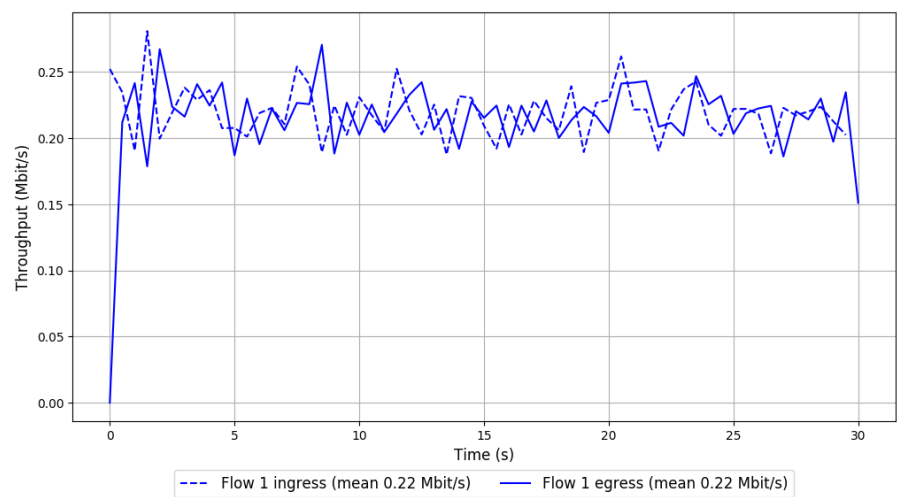
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.384 ms

Loss rate: 0.64%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-01-18 17:36:22

End at: 2019-01-18 17:36:52

Local clock offset: 7.356 ms

Remote clock offset: 6.753 ms

# Below is generated by plot.py at 2019-01-18 22:09:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.45 Mbit/s

95th percentile per-packet one-way delay: 86.218 ms

Loss rate: 0.73%

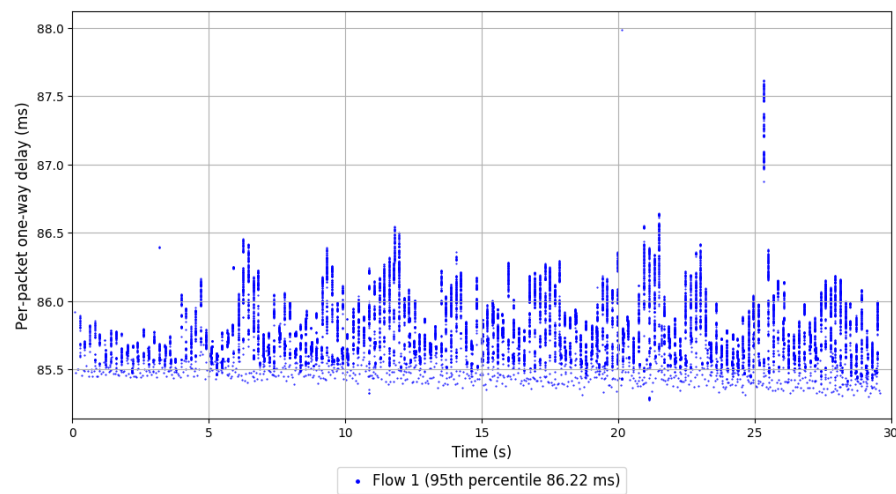
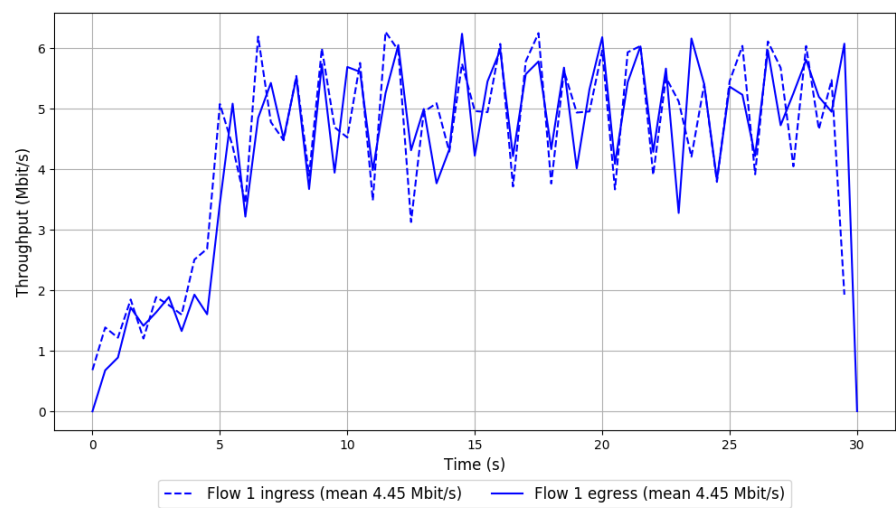
-- Flow 1:

Average throughput: 4.45 Mbit/s

95th percentile per-packet one-way delay: 86.218 ms

Loss rate: 0.73%

Run 1: Report of Sprout — Data Link



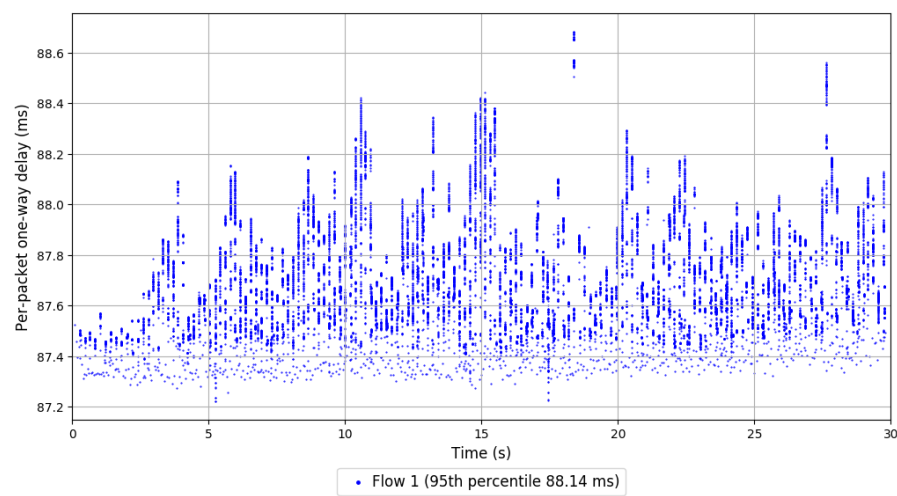
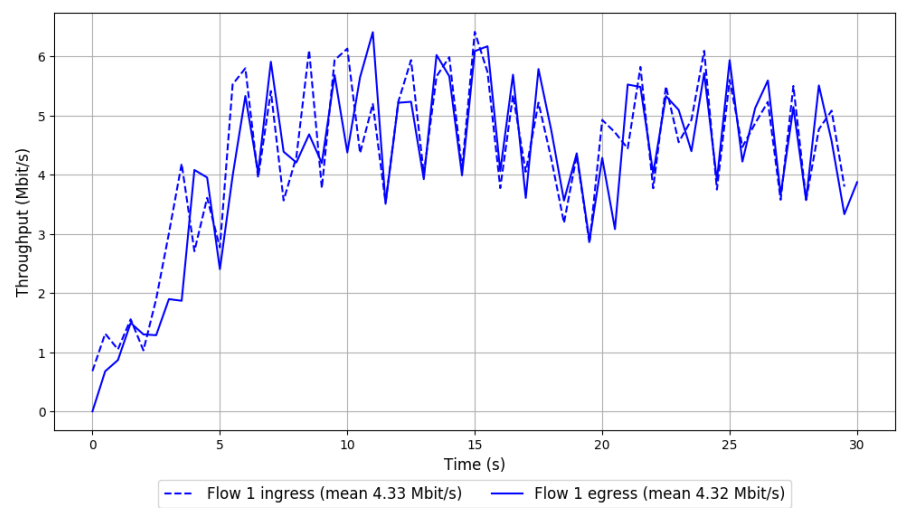


Run 2: Statistics of Sprout

Start at: 2019-01-18 18:07:49  
End at: 2019-01-18 18:08:19  
Local clock offset: 23.892 ms  
Remote clock offset: 20.588 ms

# Below is generated by plot.py at 2019-01-18 22:09:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 4.32 Mbit/s  
95th percentile per-packet one-way delay: 88.143 ms  
Loss rate: 0.73%  
-- Flow 1:  
Average throughput: 4.32 Mbit/s  
95th percentile per-packet one-way delay: 88.143 ms  
Loss rate: 0.73%

Run 2: Report of Sprout — Data Link

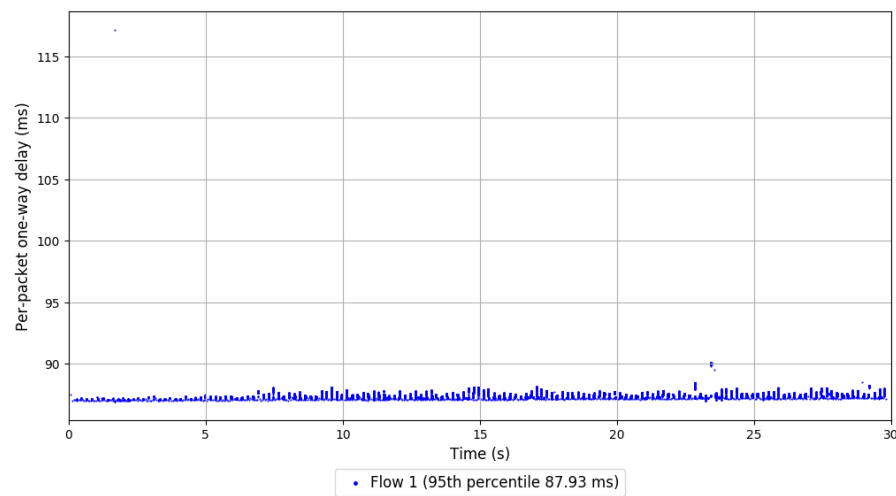
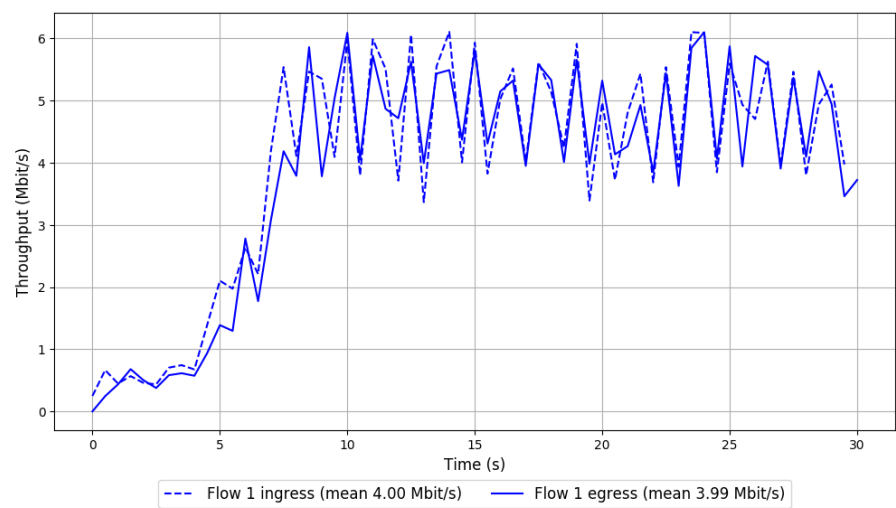


Run 3: Statistics of Sprout

Start at: 2019-01-18 18:39:54  
End at: 2019-01-18 18:40:24  
Local clock offset: 36.615 ms  
Remote clock offset: 31.909 ms

# Below is generated by plot.py at 2019-01-18 22:09:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 3.99 Mbit/s  
95th percentile per-packet one-way delay: 87.926 ms  
Loss rate: 0.86%  
-- Flow 1:  
Average throughput: 3.99 Mbit/s  
95th percentile per-packet one-way delay: 87.926 ms  
Loss rate: 0.86%

Run 3: Report of Sprout — Data Link

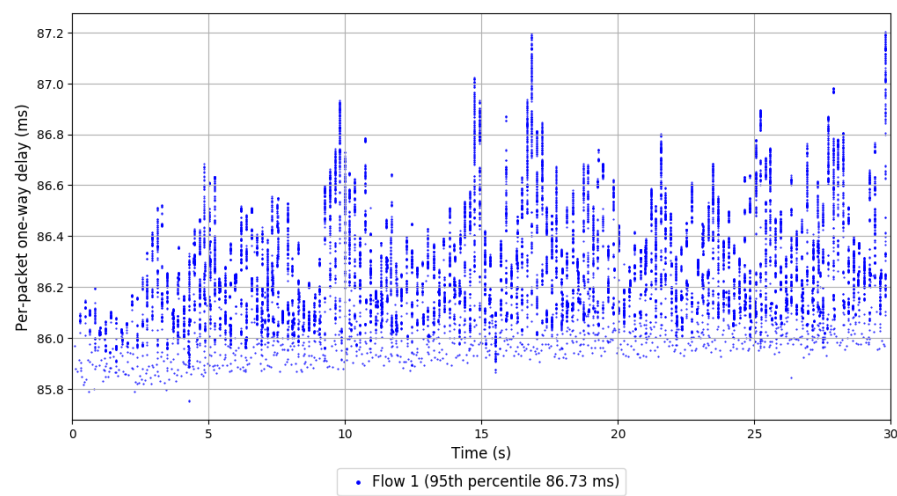
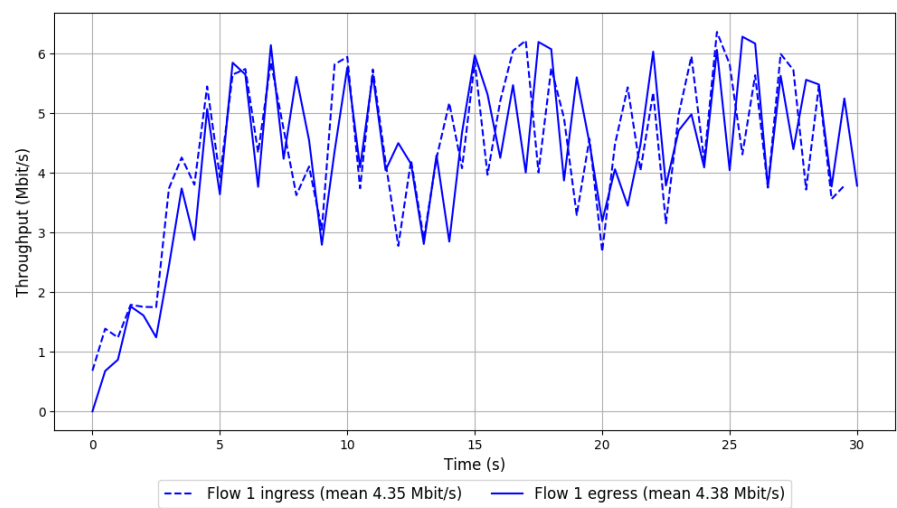


Run 4: Statistics of Sprout

Start at: 2019-01-18 19:12:06  
End at: 2019-01-18 19:12:36  
Local clock offset: 21.486 ms  
Remote clock offset: 19.047 ms

# Below is generated by plot.py at 2019-01-18 22:09:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 4.38 Mbit/s  
95th percentile per-packet one-way delay: 86.726 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 4.38 Mbit/s  
95th percentile per-packet one-way delay: 86.726 ms  
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

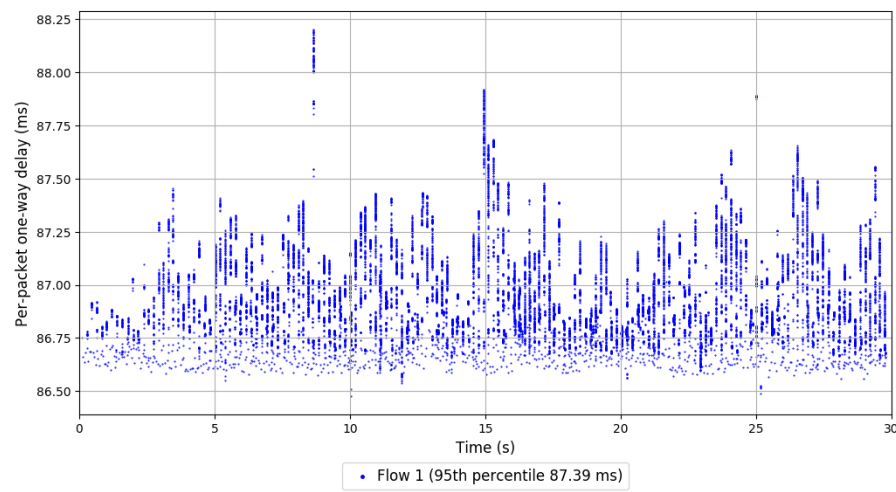
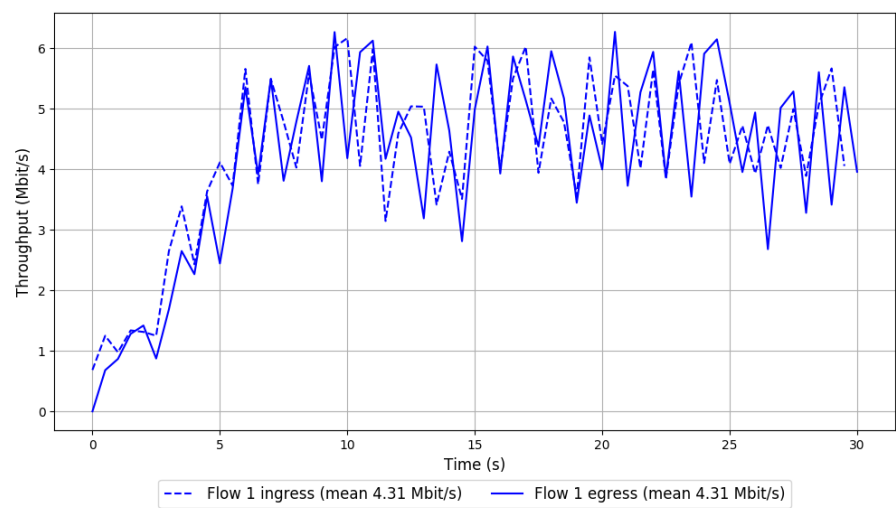


Run 5: Statistics of Sprout

Start at: 2019-01-18 19:44:13  
End at: 2019-01-18 19:44:43  
Local clock offset: 10.428 ms  
Remote clock offset: 8.772 ms

# Below is generated by plot.py at 2019-01-18 22:09:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 4.31 Mbit/s  
95th percentile per-packet one-way delay: 87.390 ms  
Loss rate: 0.80%  
-- Flow 1:  
Average throughput: 4.31 Mbit/s  
95th percentile per-packet one-way delay: 87.390 ms  
Loss rate: 0.80%

Run 5: Report of Sprout — Data Link





Run 1: Statistics of TaoVA-100x

Start at: 2019-01-18 17:37:32

End at: 2019-01-18 17:38:02

Local clock offset: 9.836 ms

Remote clock offset: 9.422 ms

# Below is generated by plot.py at 2019-01-18 22:09:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 214.50 Mbit/s

95th percentile per-packet one-way delay: 85.870 ms

Loss rate: 0.60%

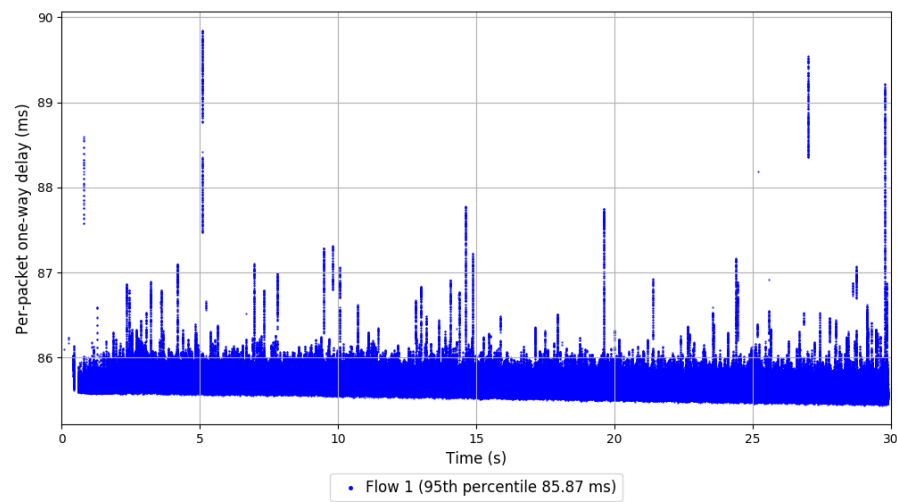
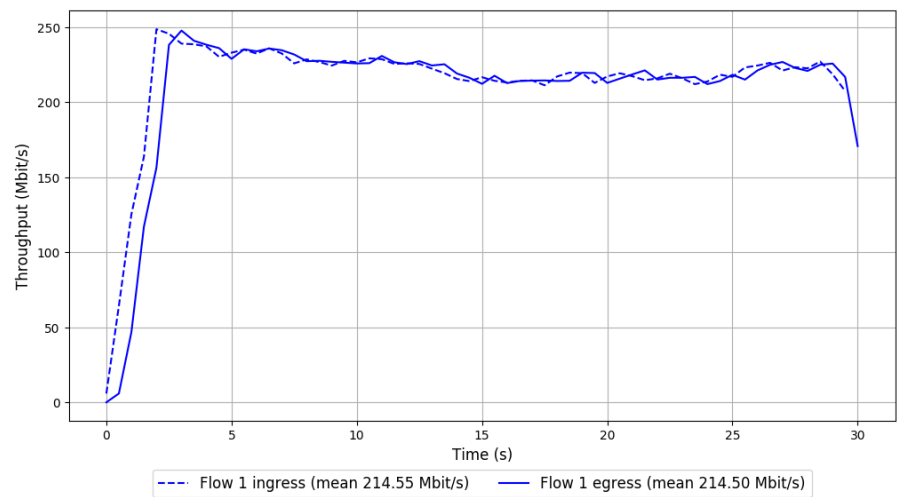
-- Flow 1:

Average throughput: 214.50 Mbit/s

95th percentile per-packet one-way delay: 85.870 ms

Loss rate: 0.60%

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

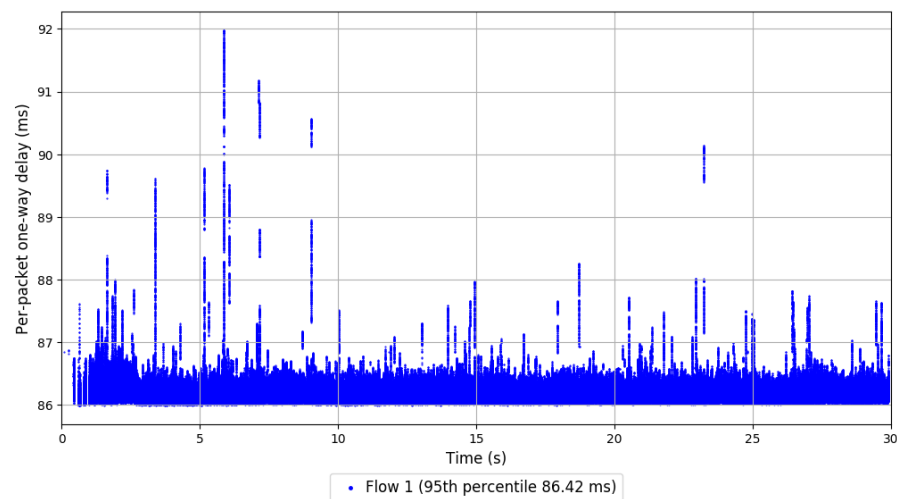
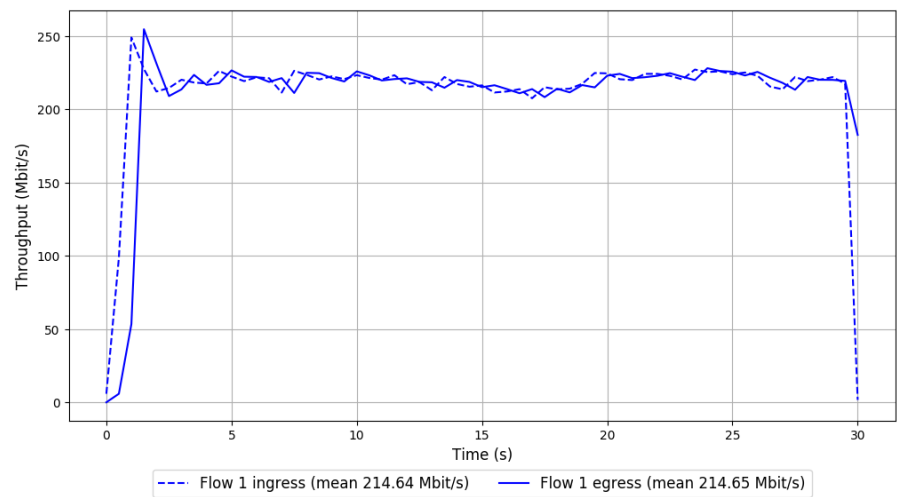


Run 2: Statistics of TaoVA-100x

Start at: 2019-01-18 18:08:59  
End at: 2019-01-18 18:09:29  
Local clock offset: 22.639 ms  
Remote clock offset: 19.807 ms

# Below is generated by plot.py at 2019-01-18 22:09:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 214.65 Mbit/s  
95th percentile per-packet one-way delay: 86.417 ms  
Loss rate: 0.59%  
-- Flow 1:  
Average throughput: 214.65 Mbit/s  
95th percentile per-packet one-way delay: 86.417 ms  
Loss rate: 0.59%

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

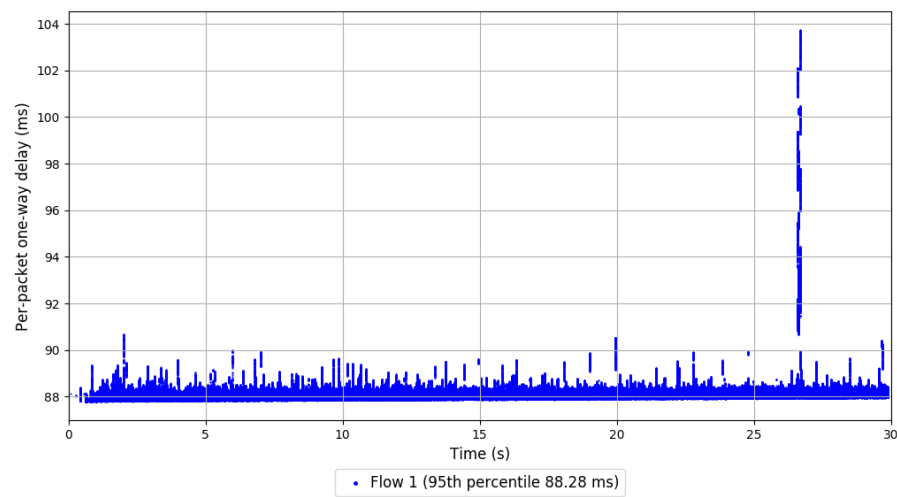
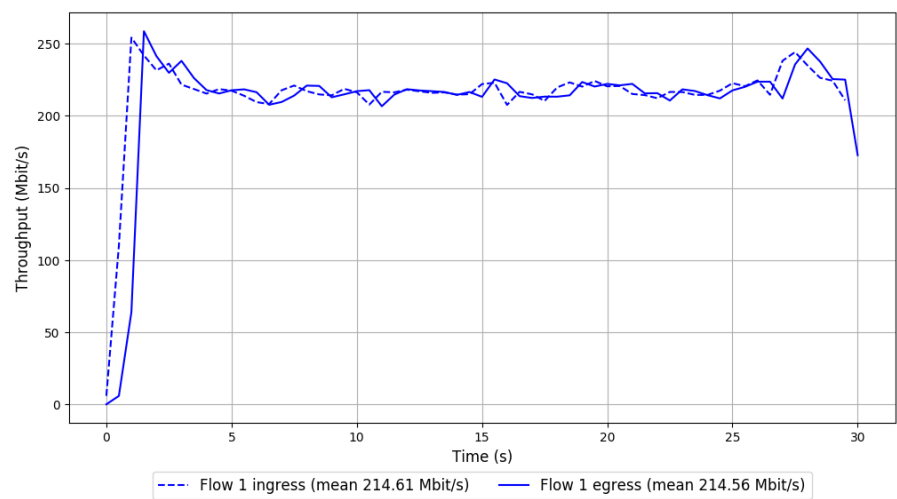


Run 3: Statistics of TaoVA-100x

Start at: 2019-01-18 18:41:04  
End at: 2019-01-18 18:41:34  
Local clock offset: 33.504 ms  
Remote clock offset: 28.589 ms

# Below is generated by plot.py at 2019-01-18 22:09:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 214.56 Mbit/s  
95th percentile per-packet one-way delay: 88.279 ms  
Loss rate: 0.60%  
-- Flow 1:  
Average throughput: 214.56 Mbit/s  
95th percentile per-packet one-way delay: 88.279 ms  
Loss rate: 0.60%

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

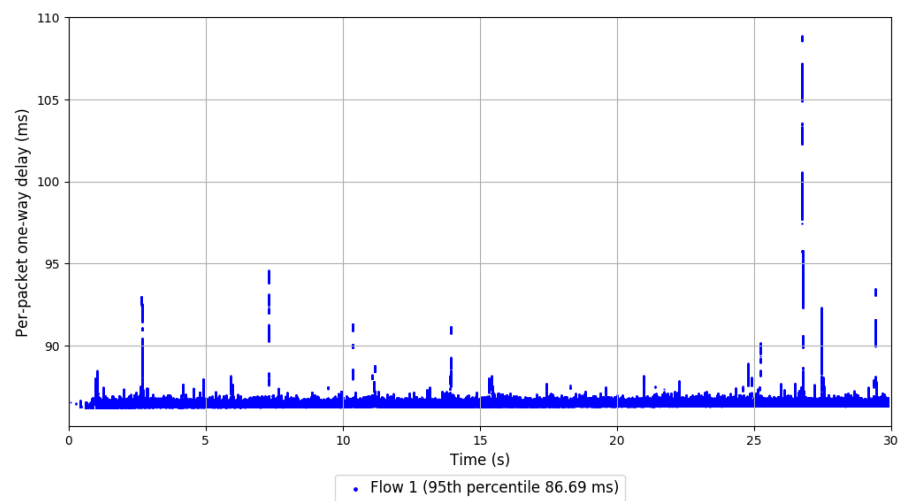
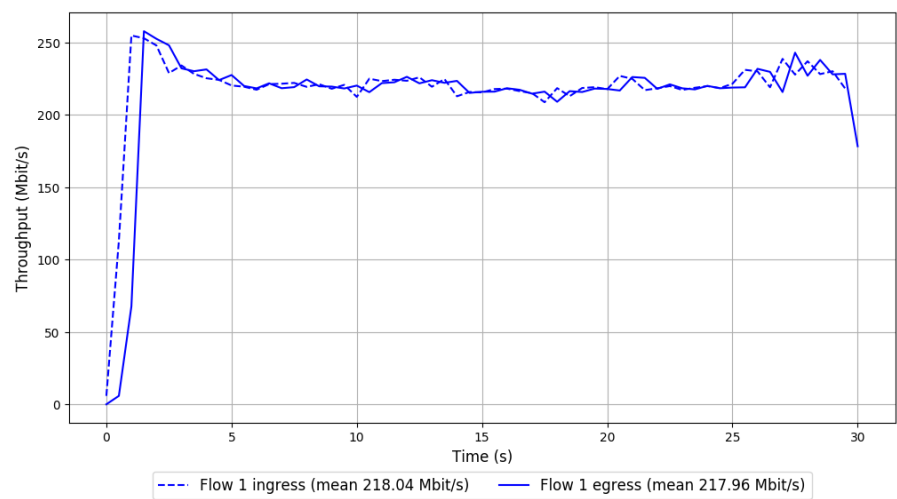


Run 4: Statistics of TaoVA-100x

Start at: 2019-01-18 19:13:16  
End at: 2019-01-18 19:13:46  
Local clock offset: 19.768 ms  
Remote clock offset: 17.457 ms

# Below is generated by plot.py at 2019-01-18 22:10:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 217.96 Mbit/s  
95th percentile per-packet one-way delay: 86.686 ms  
Loss rate: 0.61%  
-- Flow 1:  
Average throughput: 217.96 Mbit/s  
95th percentile per-packet one-way delay: 86.686 ms  
Loss rate: 0.61%

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





Run 5: Statistics of TaoVA-100x

Start at: 2019-01-18 19:45:23

End at: 2019-01-18 19:45:53

Local clock offset: 10.355 ms

Remote clock offset: 9.044 ms

# Below is generated by plot.py at 2019-01-18 22:10:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 217.07 Mbit/s

95th percentile per-packet one-way delay: 86.424 ms

Loss rate: 0.52%

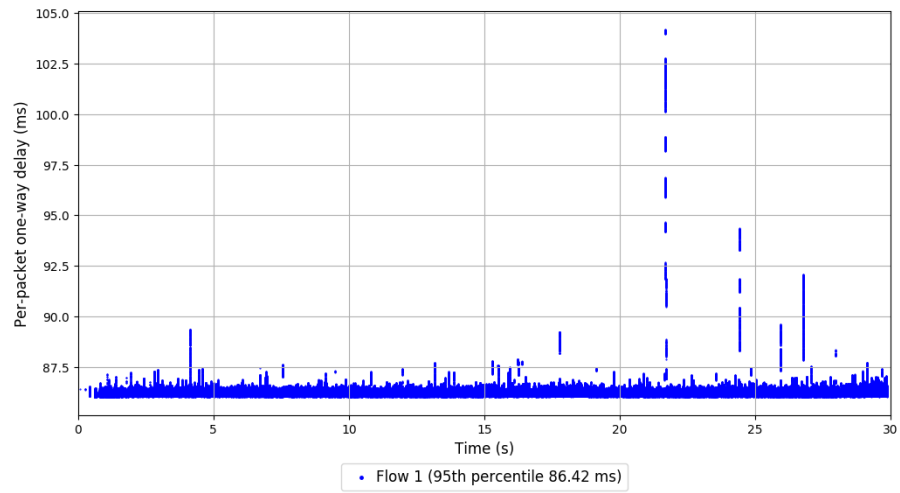
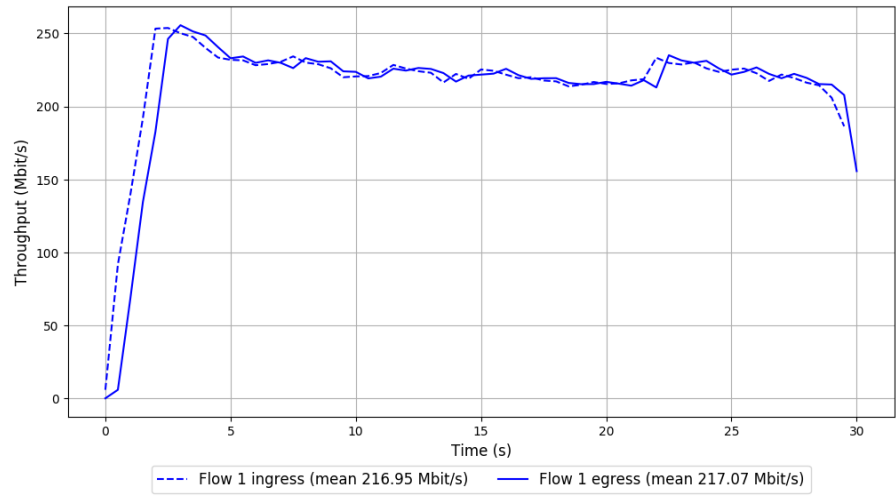
-- Flow 1:

Average throughput: 217.07 Mbit/s

95th percentile per-packet one-way delay: 86.424 ms

Loss rate: 0.52%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-01-18 17:49:38

End at: 2019-01-18 17:50:09

Local clock offset: 14.991 ms

Remote clock offset: 13.04 ms

# Below is generated by plot.py at 2019-01-18 22:13:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 504.32 Mbit/s

95th percentile per-packet one-way delay: 96.152 ms

Loss rate: 0.33%

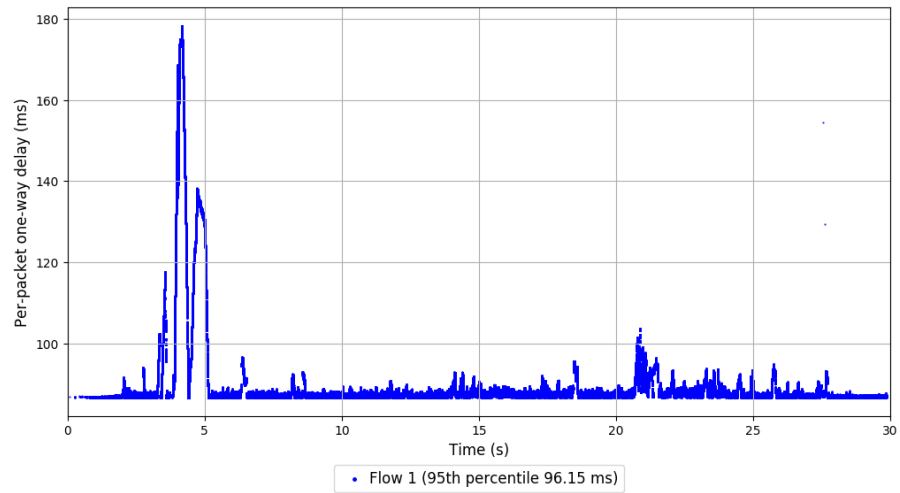
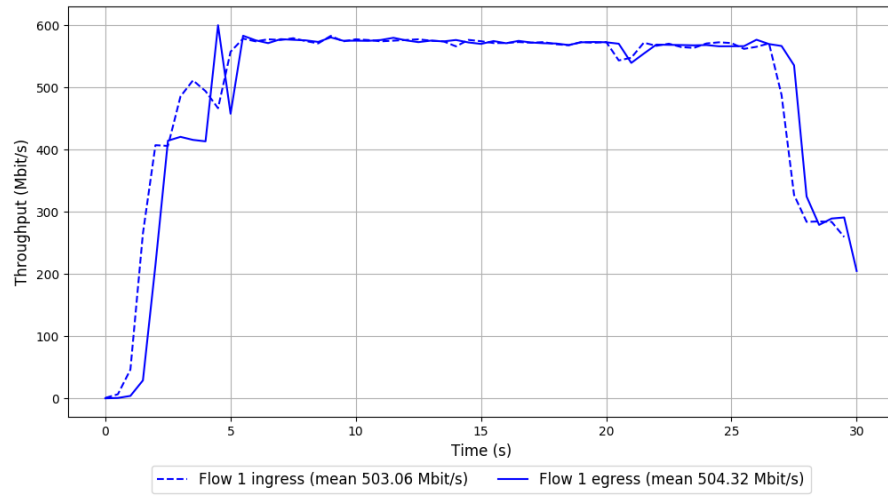
-- Flow 1:

Average throughput: 504.32 Mbit/s

95th percentile per-packet one-way delay: 96.152 ms

Loss rate: 0.33%

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

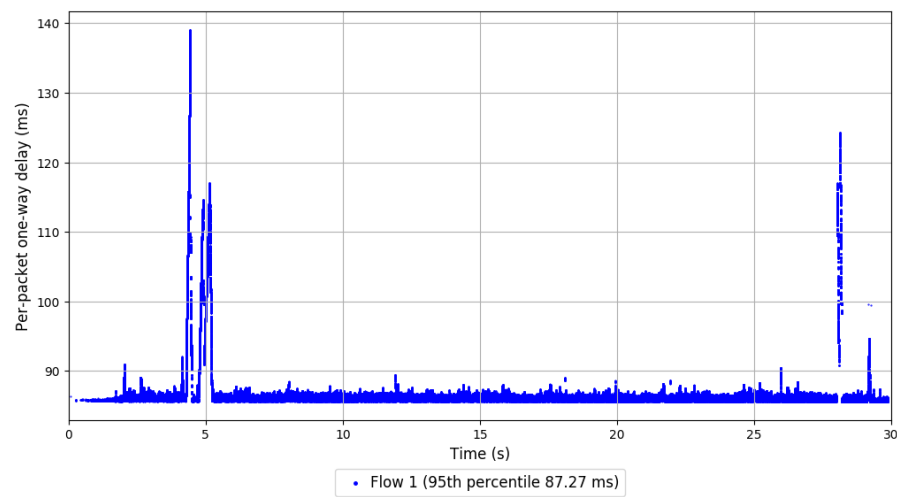
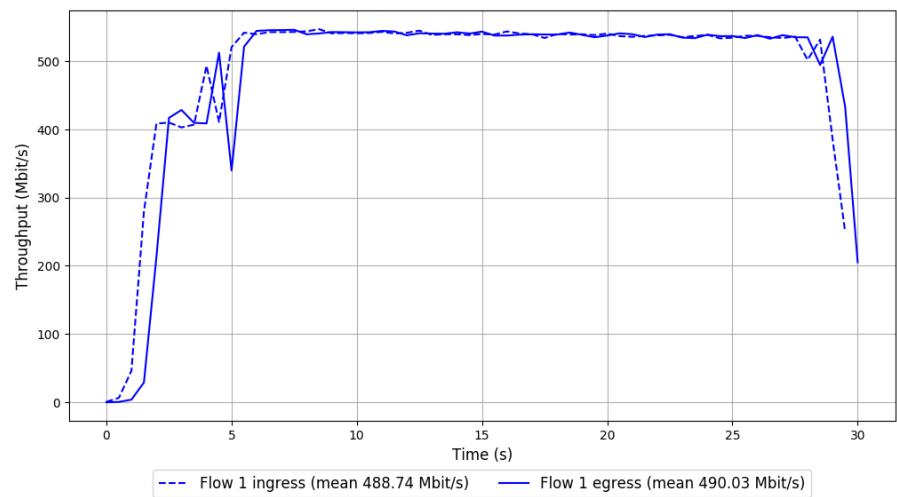


Run 2: Statistics of TCP Vegas

Start at: 2019-01-18 18:21:33  
End at: 2019-01-18 18:22:04  
Local clock offset: 25.411 ms  
Remote clock offset: 22.589 ms

# Below is generated by plot.py at 2019-01-18 22:18:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 490.03 Mbit/s  
95th percentile per-packet one-way delay: 87.269 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 490.03 Mbit/s  
95th percentile per-packet one-way delay: 87.269 ms  
Loss rate: 0.32%

Run 2: Report of TCP Vegas — Data Link

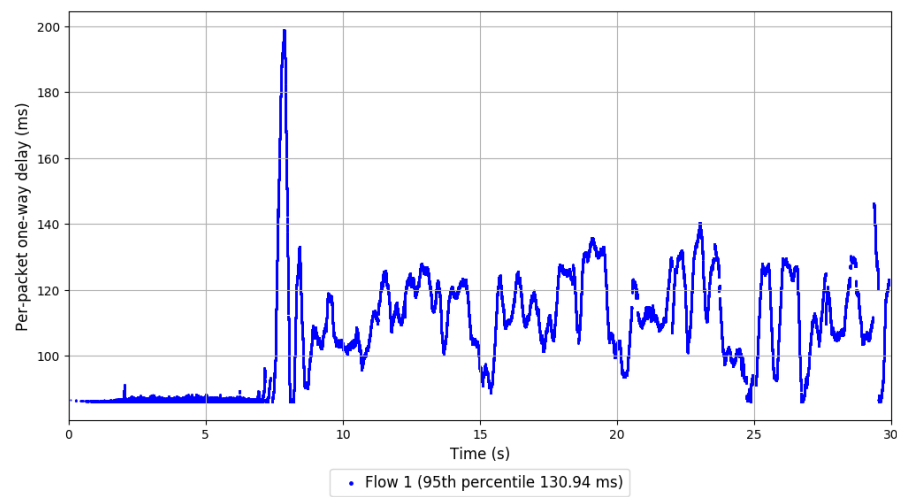
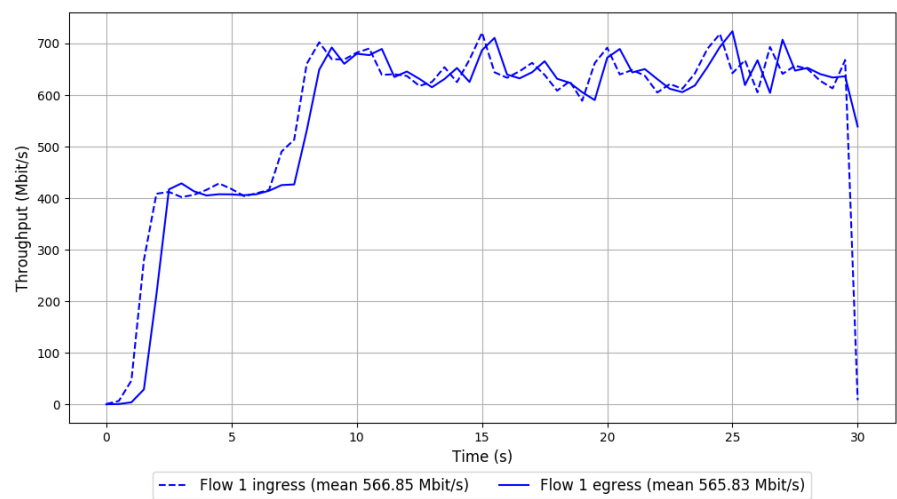


Run 3: Statistics of TCP Vegas

Start at: 2019-01-18 18:53:38  
End at: 2019-01-18 18:54:08  
Local clock offset: 16.79 ms  
Remote clock offset: 14.588 ms

# Below is generated by plot.py at 2019-01-18 22:20:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 565.83 Mbit/s  
95th percentile per-packet one-way delay: 130.935 ms  
Loss rate: 0.75%  
-- Flow 1:  
Average throughput: 565.83 Mbit/s  
95th percentile per-packet one-way delay: 130.935 ms  
Loss rate: 0.75%

Run 3: Report of TCP Vegas — Data Link





Run 4: Statistics of TCP Vegas

Start at: 2019-01-18 19:26:11

End at: 2019-01-18 19:26:41

Local clock offset: 8.702 ms

Remote clock offset: 7.348 ms

# Below is generated by plot.py at 2019-01-18 22:20:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 497.13 Mbit/s

95th percentile per-packet one-way delay: 88.020 ms

Loss rate: 0.63%

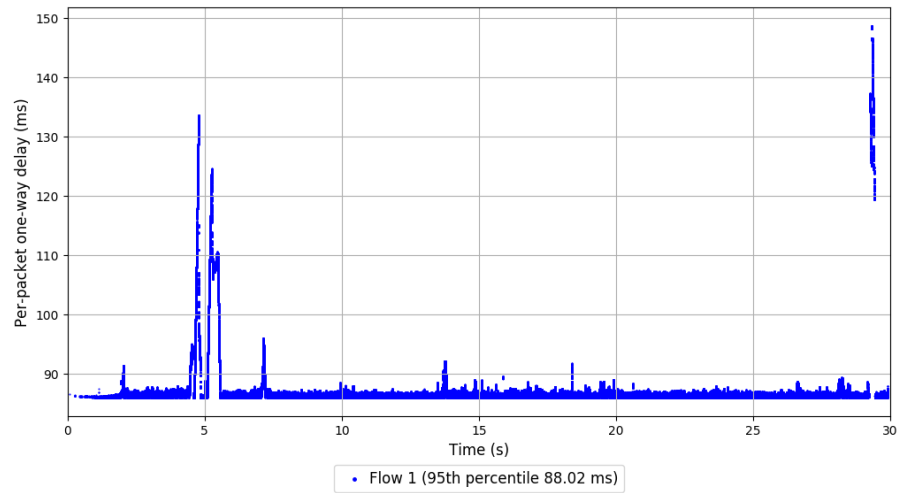
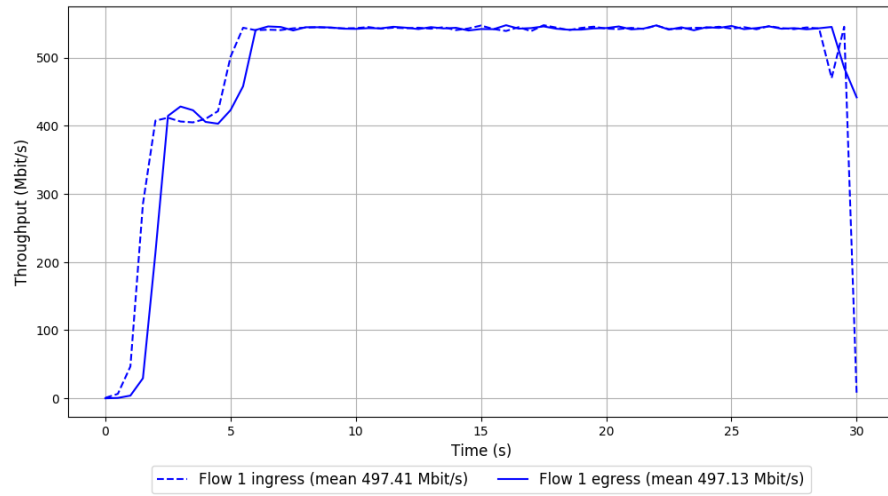
-- Flow 1:

Average throughput: 497.13 Mbit/s

95th percentile per-packet one-way delay: 88.020 ms

Loss rate: 0.63%

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



Run 5: Statistics of TCP Vegas

Start at: 2019-01-18 19:58:23

End at: 2019-01-18 19:58:53

Local clock offset: 3.663 ms

Remote clock offset: 3.722 ms

# Below is generated by plot.py at 2019-01-18 22:21:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 556.91 Mbit/s

95th percentile per-packet one-way delay: 119.640 ms

Loss rate: 0.69%

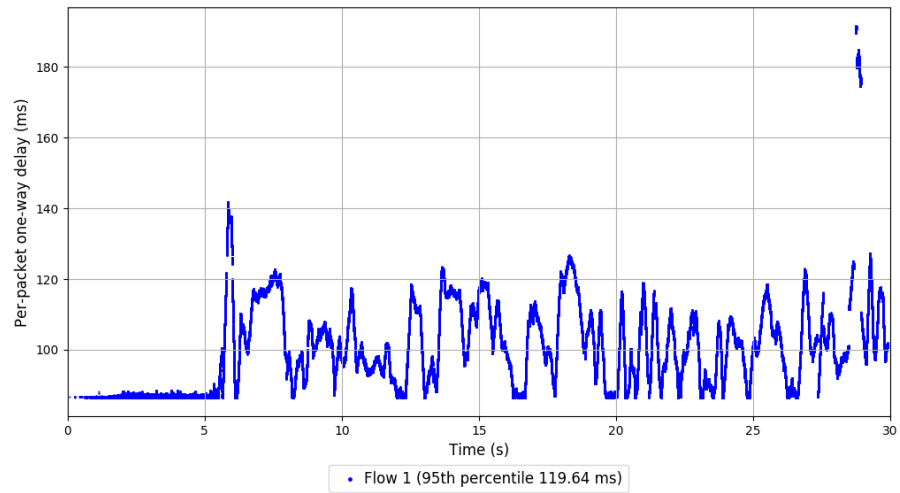
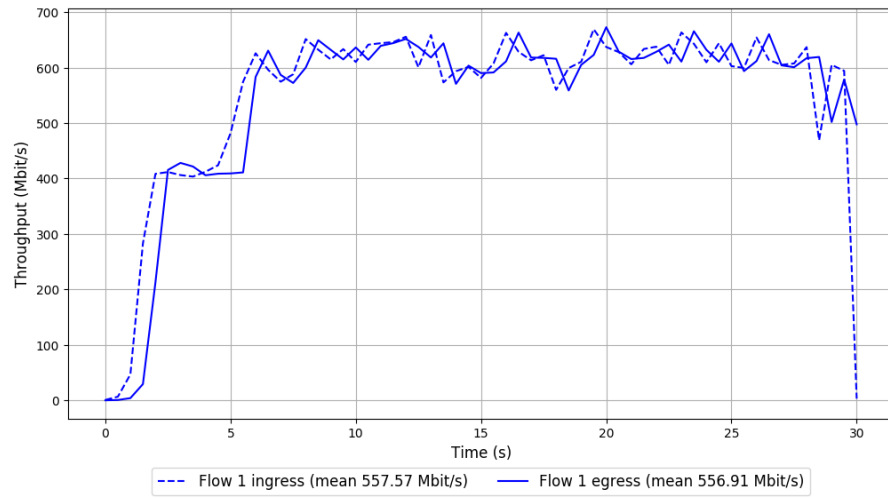
-- Flow 1:

Average throughput: 556.91 Mbit/s

95th percentile per-packet one-way delay: 119.640 ms

Loss rate: 0.69%

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

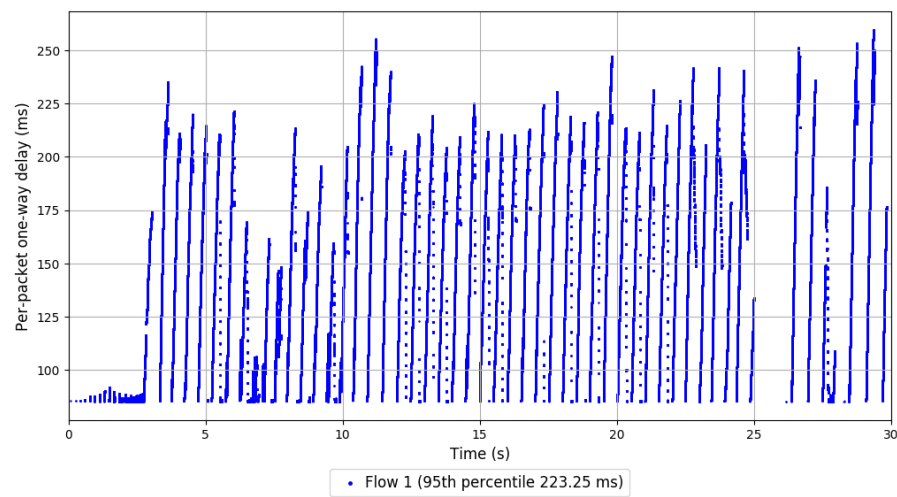
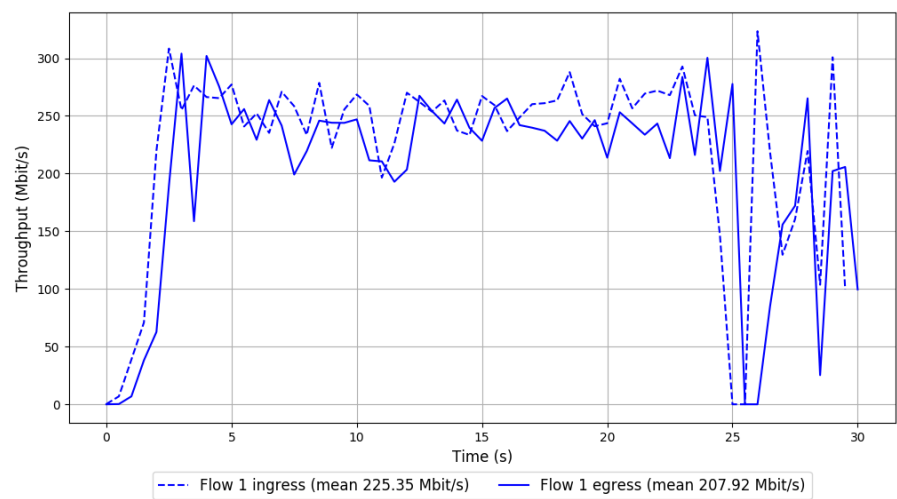


Run 1: Statistics of Verus

Start at: 2019-01-18 17:55:12  
End at: 2019-01-18 17:55:42  
Local clock offset: 16.085 ms  
Remote clock offset: 14.676 ms

# Below is generated by plot.py at 2019-01-18 22:21:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 207.92 Mbit/s  
95th percentile per-packet one-way delay: 223.252 ms  
Loss rate: 7.45%  
-- Flow 1:  
Average throughput: 207.92 Mbit/s  
95th percentile per-packet one-way delay: 223.252 ms  
Loss rate: 7.45%

Run 1: Report of Verus — Data Link

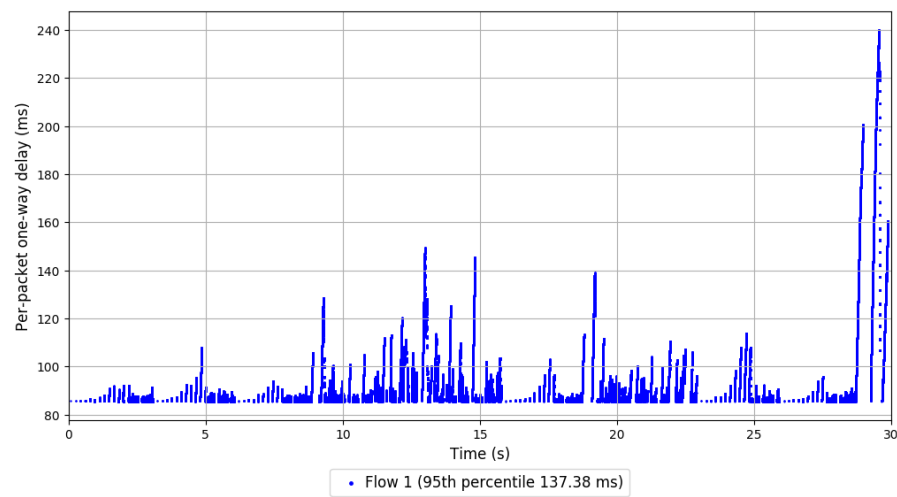
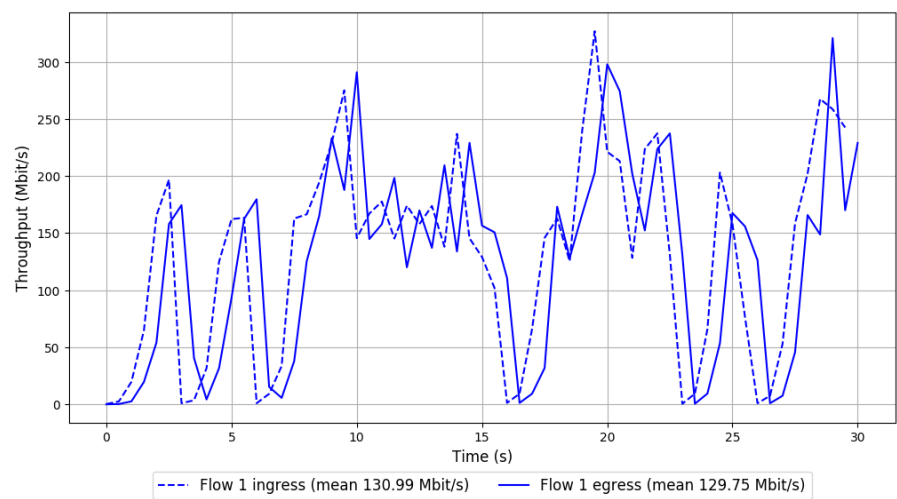


Run 2: Statistics of Verus

Start at: 2019-01-18 18:27:06  
End at: 2019-01-18 18:27:36  
Local clock offset: 30.376 ms  
Remote clock offset: 27.129 ms

# Below is generated by plot.py at 2019-01-18 22:21:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 129.75 Mbit/s  
95th percentile per-packet one-way delay: 137.384 ms  
Loss rate: 1.30%  
-- Flow 1:  
Average throughput: 129.75 Mbit/s  
95th percentile per-packet one-way delay: 137.384 ms  
Loss rate: 1.30%

Run 2: Report of Verus — Data Link



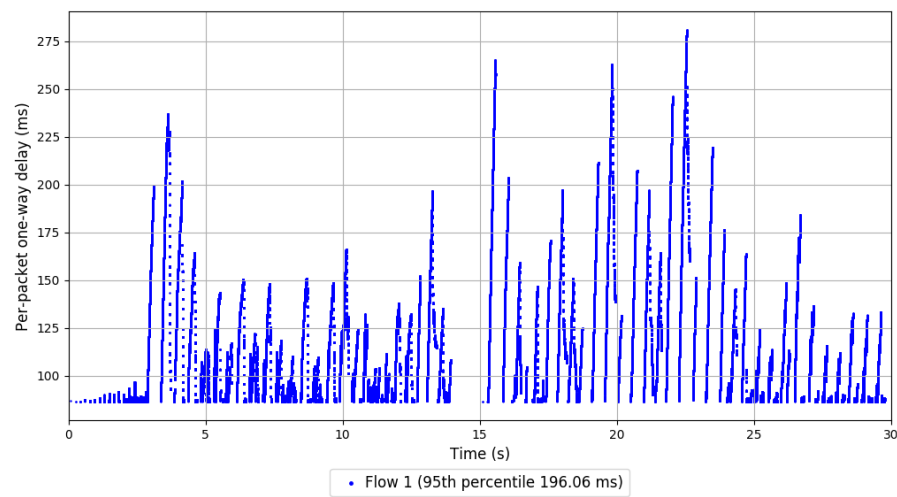
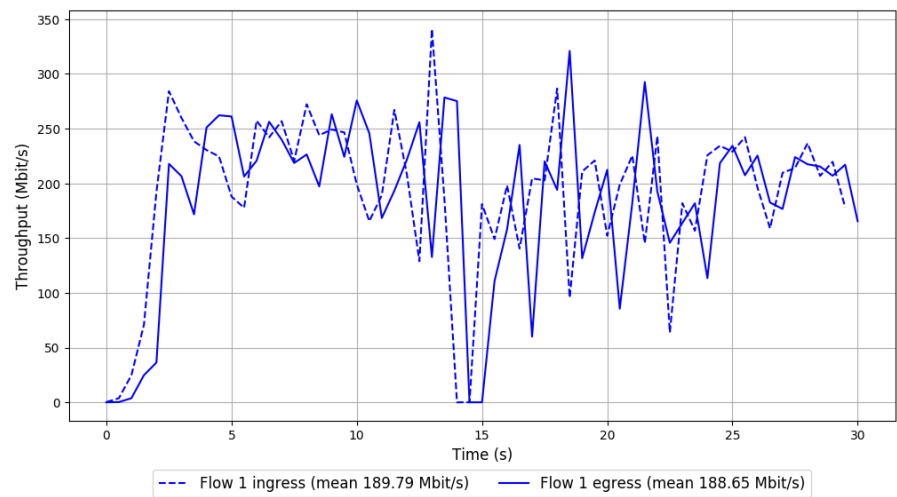


Run 3: Statistics of Verus

Start at: 2019-01-18 18:59:26  
End at: 2019-01-18 18:59:56  
Local clock offset: 16.785 ms  
Remote clock offset: 14.663 ms

# Below is generated by plot.py at 2019-01-18 22:21:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 188.65 Mbit/s  
95th percentile per-packet one-way delay: 196.056 ms  
Loss rate: 1.54%  
-- Flow 1:  
Average throughput: 188.65 Mbit/s  
95th percentile per-packet one-way delay: 196.056 ms  
Loss rate: 1.54%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-01-18 19:31:46

End at: 2019-01-18 19:32:16

Local clock offset: 8.008 ms

Remote clock offset: 6.998 ms

# Below is generated by plot.py at 2019-01-18 22:21:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 185.38 Mbit/s

95th percentile per-packet one-way delay: 195.492 ms

Loss rate: 1.53%

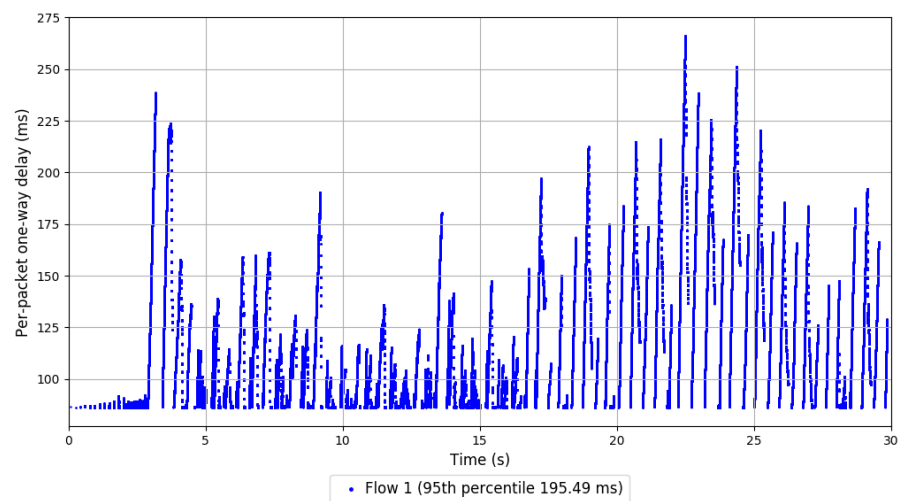
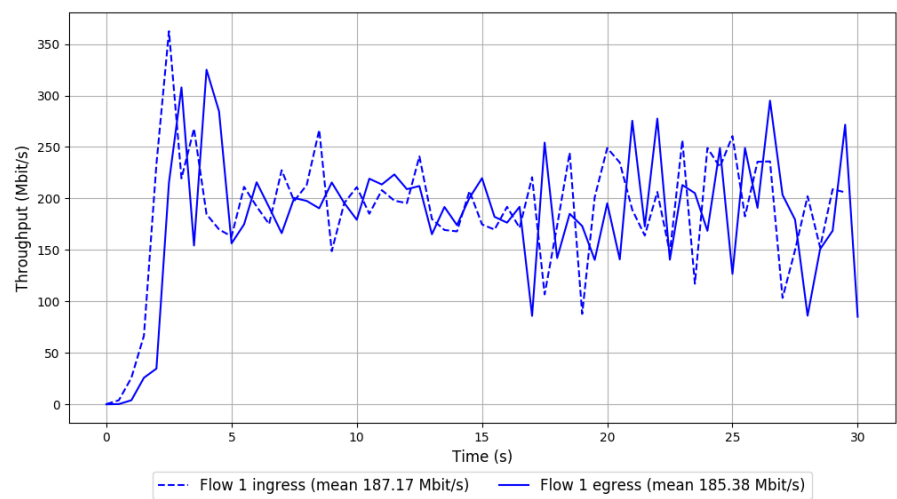
-- Flow 1:

Average throughput: 185.38 Mbit/s

95th percentile per-packet one-way delay: 195.492 ms

Loss rate: 1.53%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-01-18 20:04:20

End at: 2019-01-18 20:04:50

Local clock offset: 2.655 ms

Remote clock offset: 3.302 ms

# Below is generated by plot.py at 2019-01-18 22:21:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 163.99 Mbit/s

95th percentile per-packet one-way delay: 211.381 ms

Loss rate: 2.55%

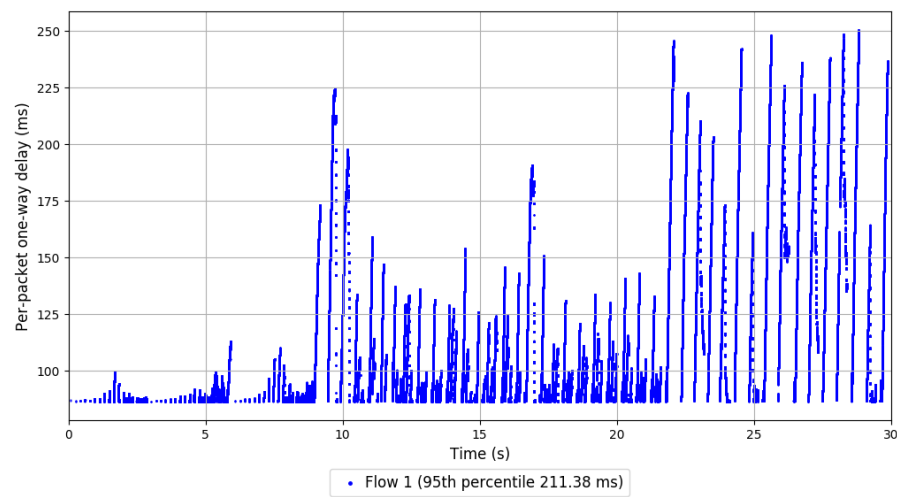
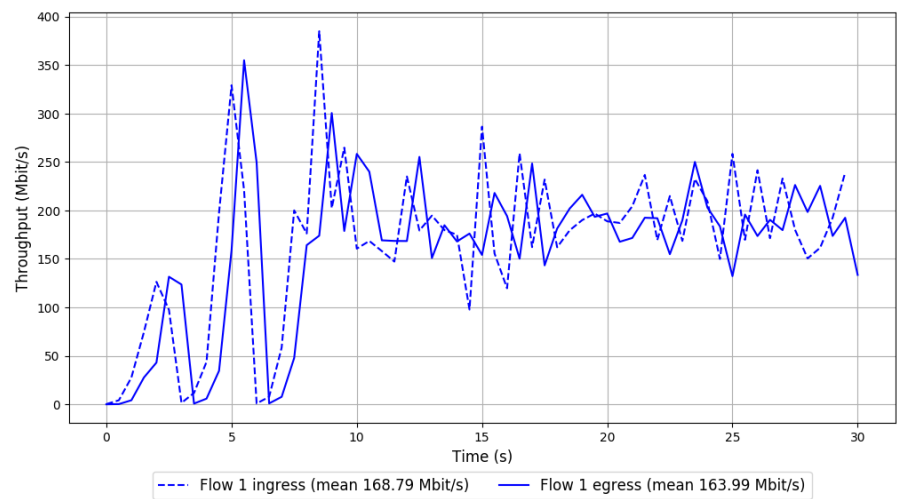
-- Flow 1:

Average throughput: 163.99 Mbit/s

95th percentile per-packet one-way delay: 211.381 ms

Loss rate: 2.55%

Run 5: Report of Verus — Data Link

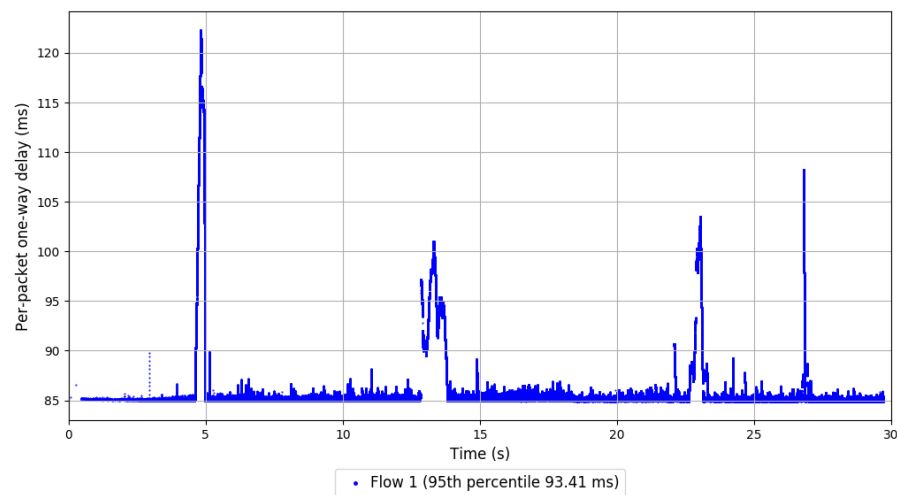
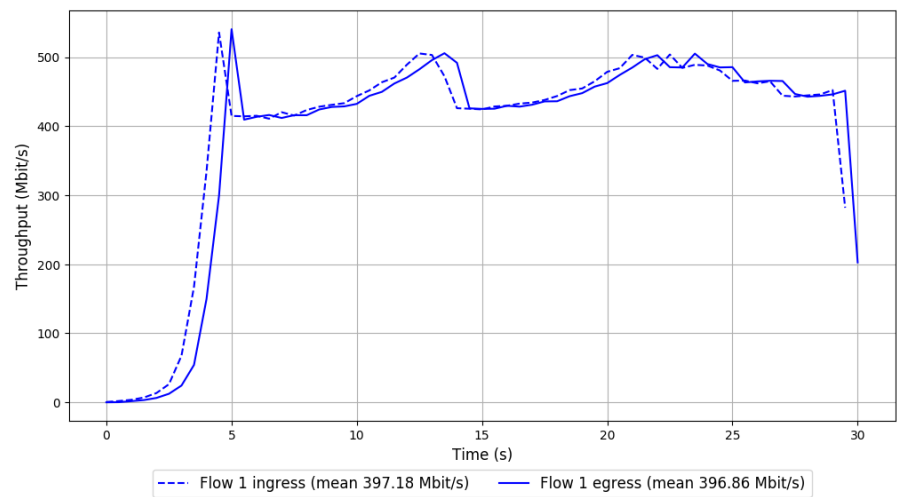


Run 1: Statistics of PCC-Vivace

Start at: 2019-01-18 17:43:13  
End at: 2019-01-18 17:43:43  
Local clock offset: 11.621 ms  
Remote clock offset: 10.785 ms

# Below is generated by plot.py at 2019-01-18 22:24:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 396.86 Mbit/s  
95th percentile per-packet one-way delay: 93.407 ms  
Loss rate: 0.66%  
-- Flow 1:  
Average throughput: 396.86 Mbit/s  
95th percentile per-packet one-way delay: 93.407 ms  
Loss rate: 0.66%

Run 1: Report of PCC-Vivace — Data Link



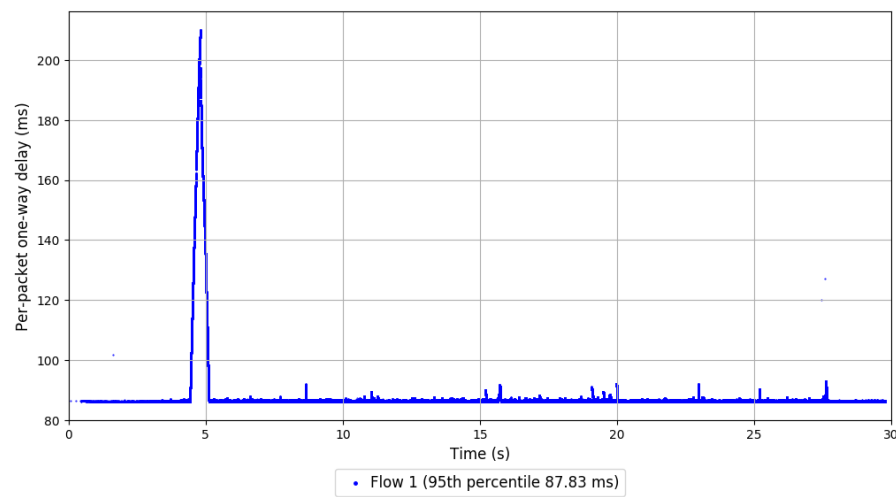
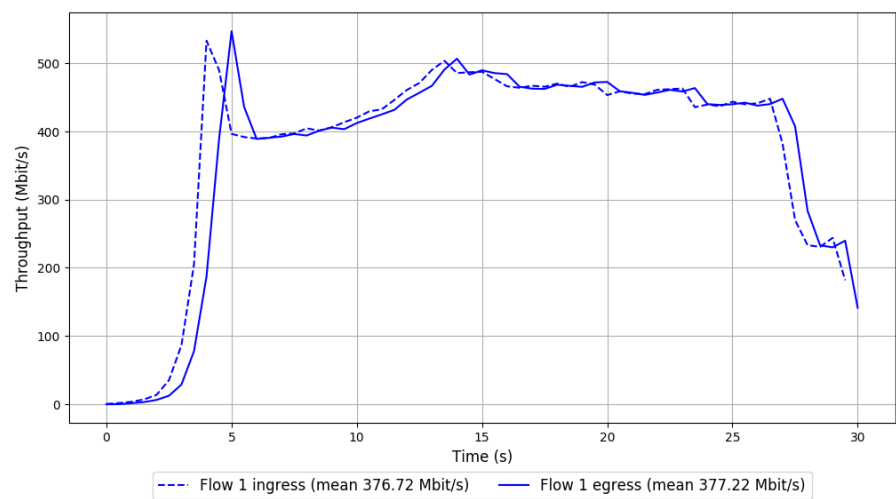


Run 2: Statistics of PCC-Vivace

Start at: 2019-01-18 18:15:07  
End at: 2019-01-18 18:15:37  
Local clock offset: 22.008 ms  
Remote clock offset: 19.148 ms

# Below is generated by plot.py at 2019-01-18 22:24:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 377.22 Mbit/s  
95th percentile per-packet one-way delay: 87.830 ms  
Loss rate: 0.45%  
-- Flow 1:  
Average throughput: 377.22 Mbit/s  
95th percentile per-packet one-way delay: 87.830 ms  
Loss rate: 0.45%

Run 2: Report of PCC-Vivace — Data Link

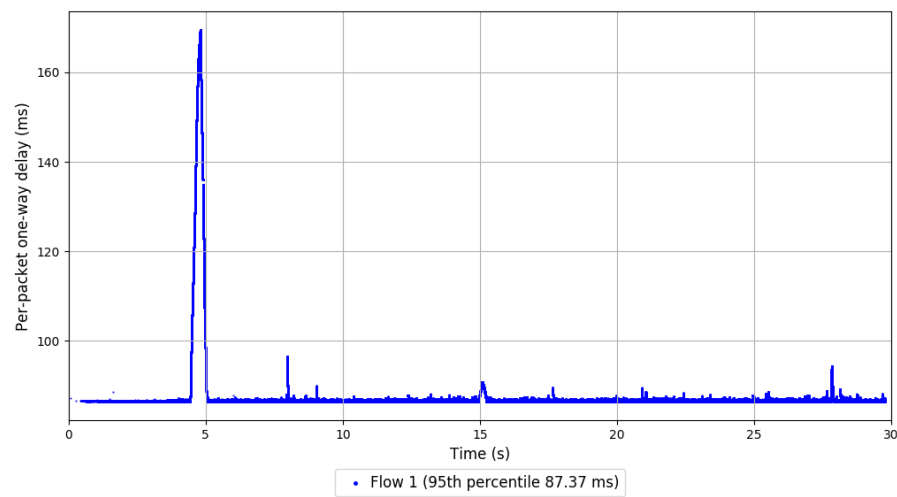
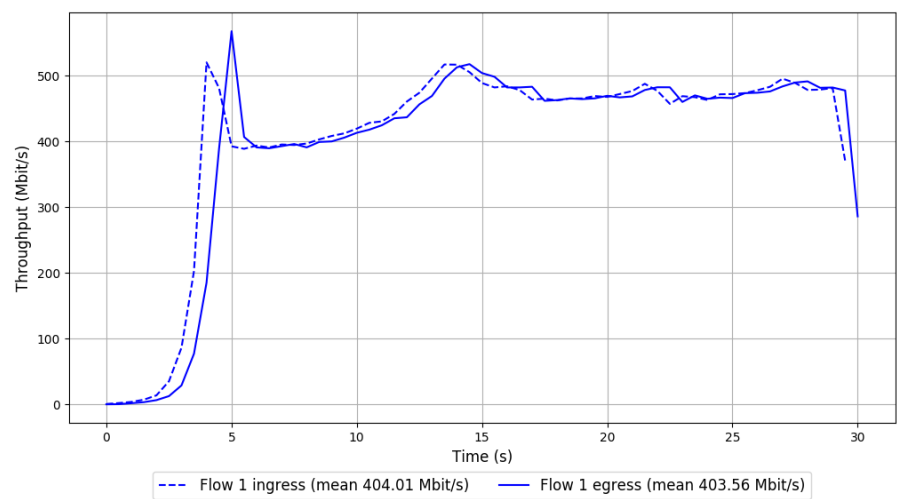


Run 3: Statistics of PCC-Vivace

Start at: 2019-01-18 18:47:07  
End at: 2019-01-18 18:47:37  
Local clock offset: 20.503 ms  
Remote clock offset: 18.295 ms

# Below is generated by plot.py at 2019-01-18 22:24:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 403.56 Mbit/s  
95th percentile per-packet one-way delay: 87.371 ms  
Loss rate: 0.69%  
-- Flow 1:  
Average throughput: 403.56 Mbit/s  
95th percentile per-packet one-way delay: 87.371 ms  
Loss rate: 0.69%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-01-18 19:19:45

End at: 2019-01-18 19:20:15

Local clock offset: 11.562 ms

Remote clock offset: 9.877 ms

# Below is generated by plot.py at 2019-01-18 22:24:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 377.60 Mbit/s

95th percentile per-packet one-way delay: 151.603 ms

Loss rate: 0.76%

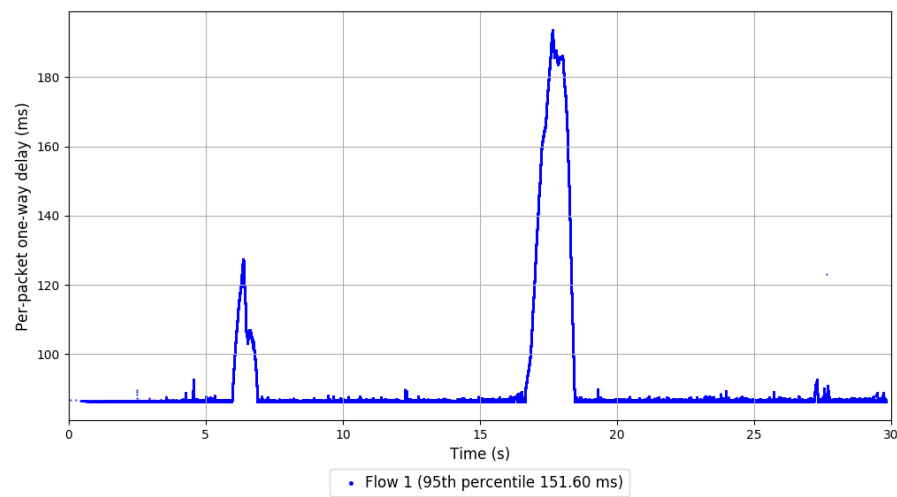
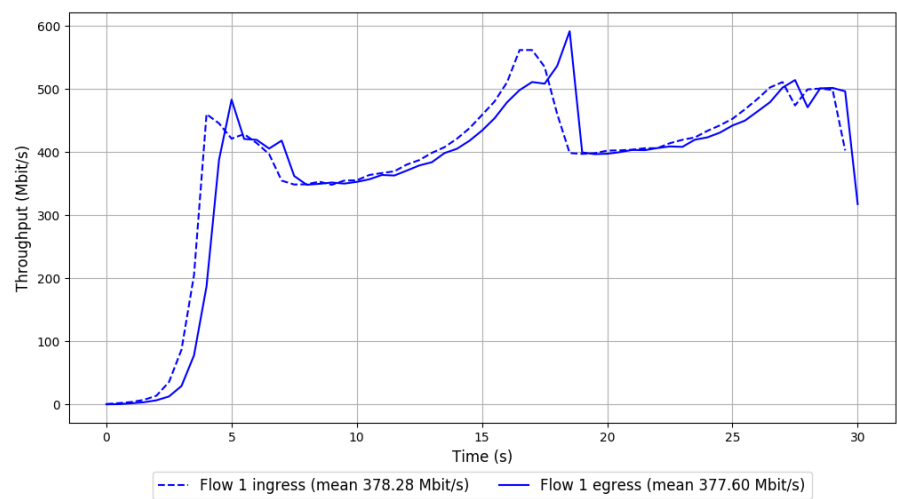
-- Flow 1:

Average throughput: 377.60 Mbit/s

95th percentile per-packet one-way delay: 151.603 ms

Loss rate: 0.76%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-01-18 19:51:49

End at: 2019-01-18 19:52:19

Local clock offset: 6.709 ms

Remote clock offset: 5.519 ms

# Below is generated by plot.py at 2019-01-18 22:24:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 380.30 Mbit/s

95th percentile per-packet one-way delay: 88.952 ms

Loss rate: 0.67%

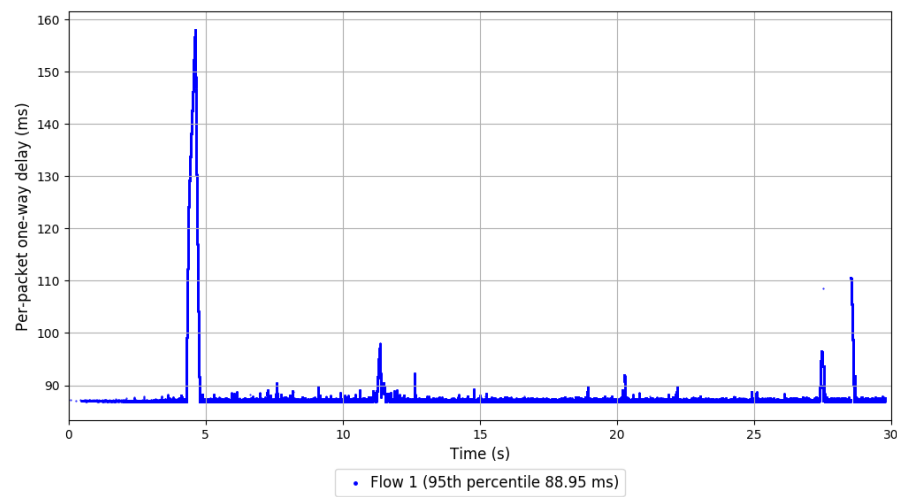
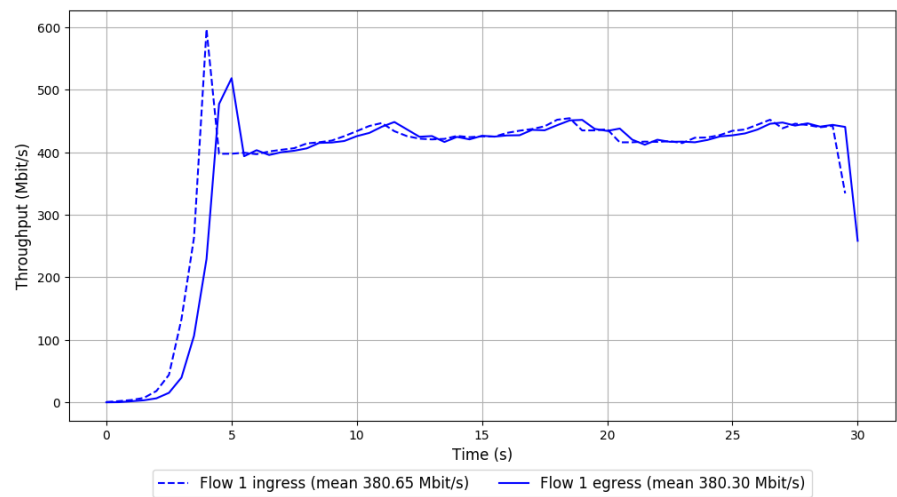
-- Flow 1:

Average throughput: 380.30 Mbit/s

95th percentile per-packet one-way delay: 88.952 ms

Loss rate: 0.67%

Run 5: Report of PCC-Vivace — Data Link





Run 1: Statistics of WebRTC media

Start at: 2019-01-18 17:52:22

End at: 2019-01-18 17:52:52

Local clock offset: 14.366 ms

Remote clock offset: 12.75 ms

# Below is generated by plot.py at 2019-01-18 22:24:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.62 Mbit/s

95th percentile per-packet one-way delay: 86.384 ms

Loss rate: 1.09%

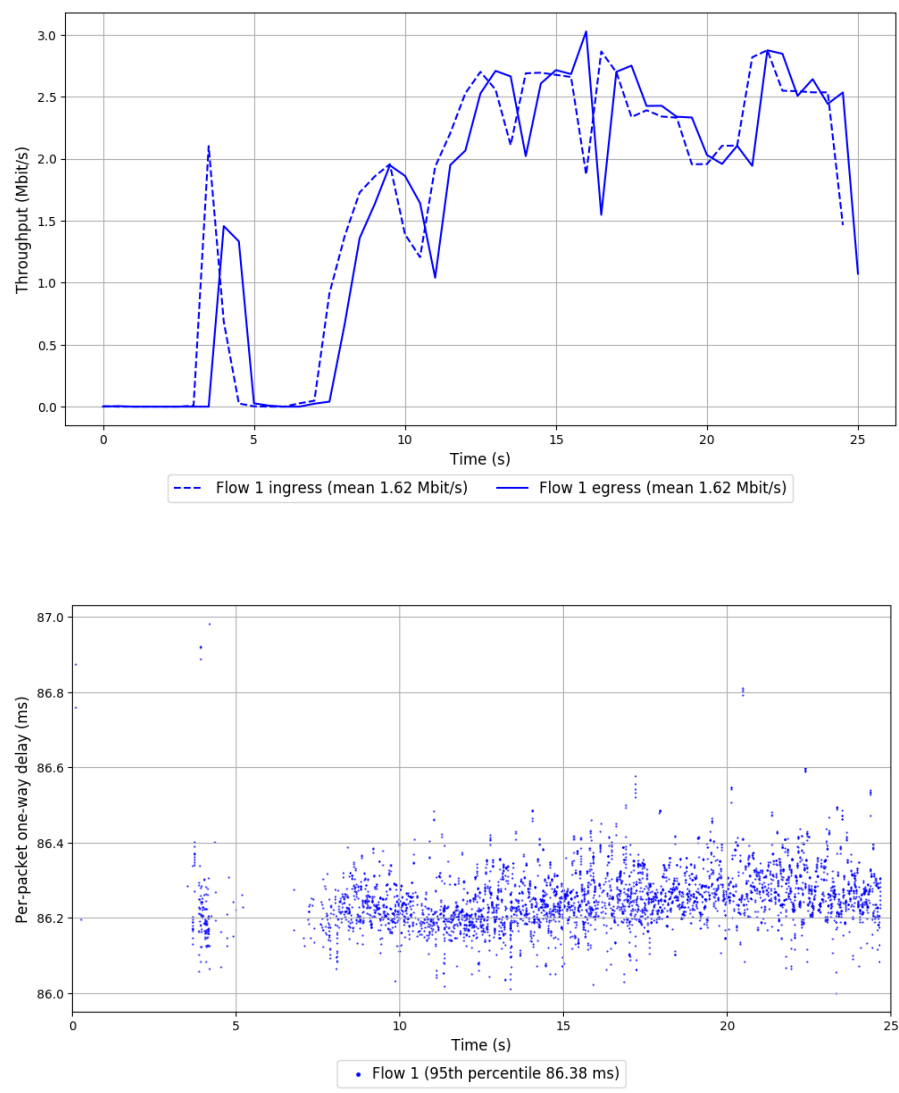
-- Flow 1:

Average throughput: 1.62 Mbit/s

95th percentile per-packet one-way delay: 86.384 ms

Loss rate: 1.09%

Run 1: Report of WebRTC media — Data Link

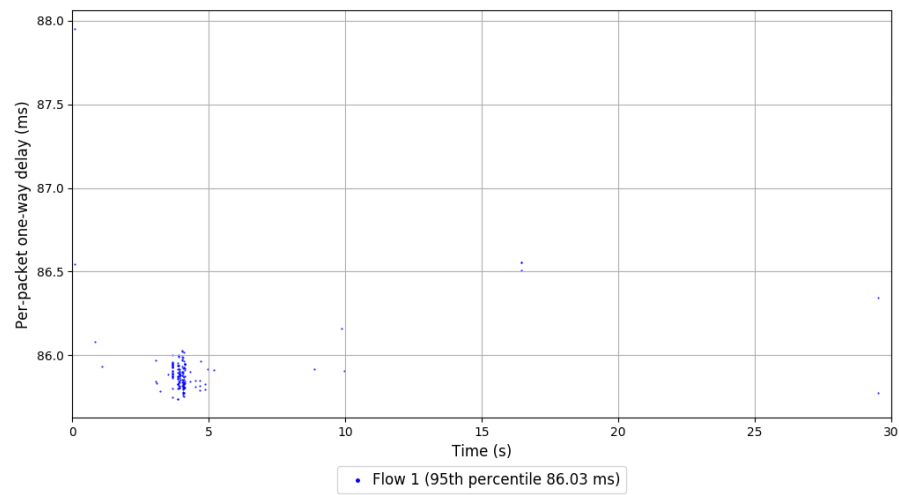
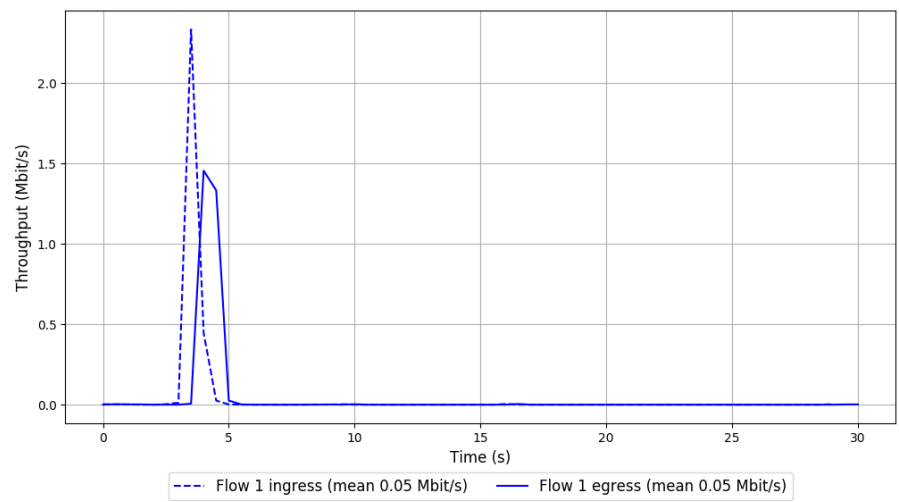


Run 2: Statistics of WebRTC media

Start at: 2019-01-18 18:24:21  
End at: 2019-01-18 18:24:51  
Local clock offset: 27.228 ms  
Remote clock offset: 24.794 ms

# Below is generated by plot.py at 2019-01-18 22:24:42  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 86.026 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 86.026 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

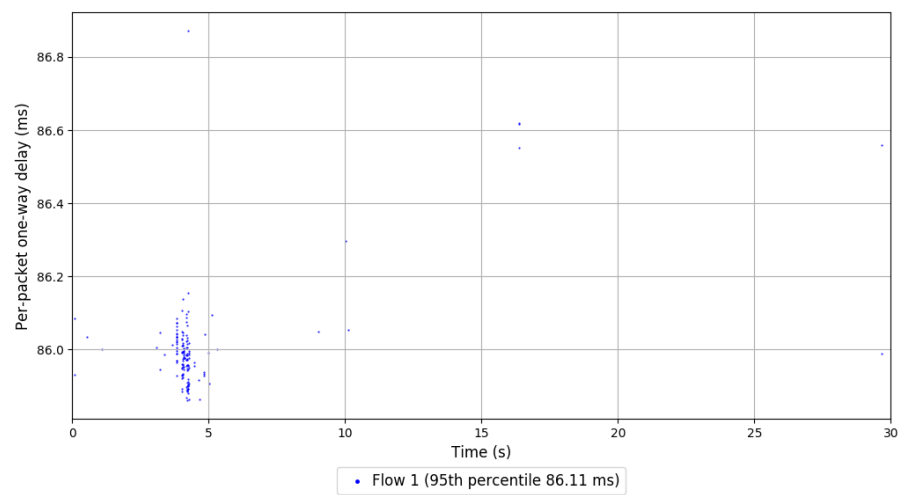
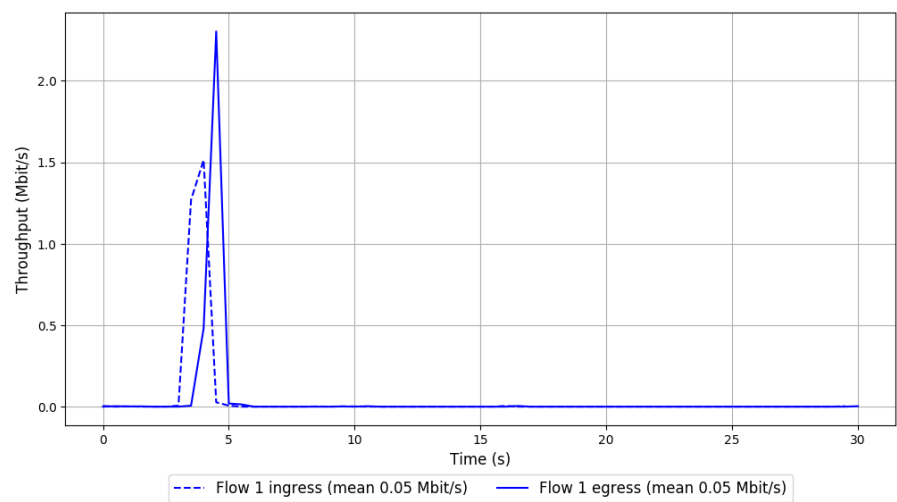


Run 3: Statistics of WebRTC media

Start at: 2019-01-18 18:56:34  
End at: 2019-01-18 18:57:04  
Local clock offset: 16.309 ms  
Remote clock offset: 14.402 ms

# Below is generated by plot.py at 2019-01-18 22:24:42  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 86.106 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 86.106 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-01-18 19:28:58

End at: 2019-01-18 19:29:28

Local clock offset: 8.035 ms

Remote clock offset: 7.178 ms

# Below is generated by plot.py at 2019-01-18 22:24:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.085 ms

Loss rate: 0.00%

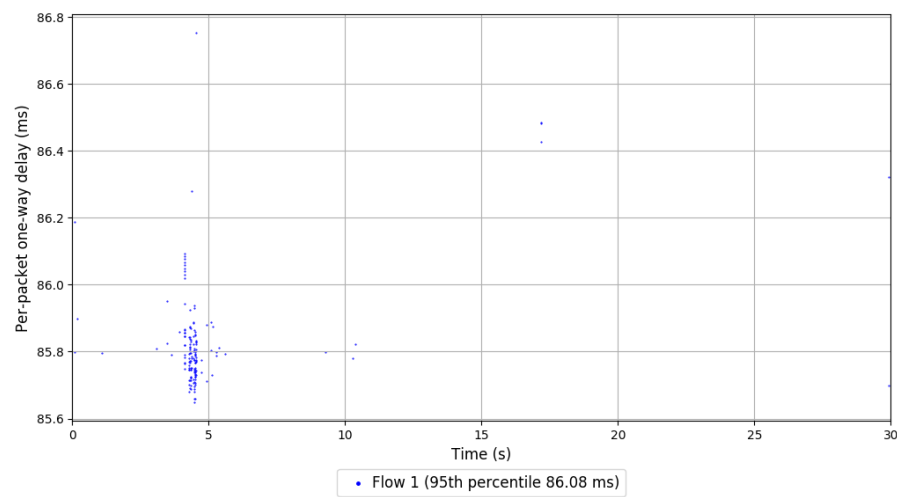
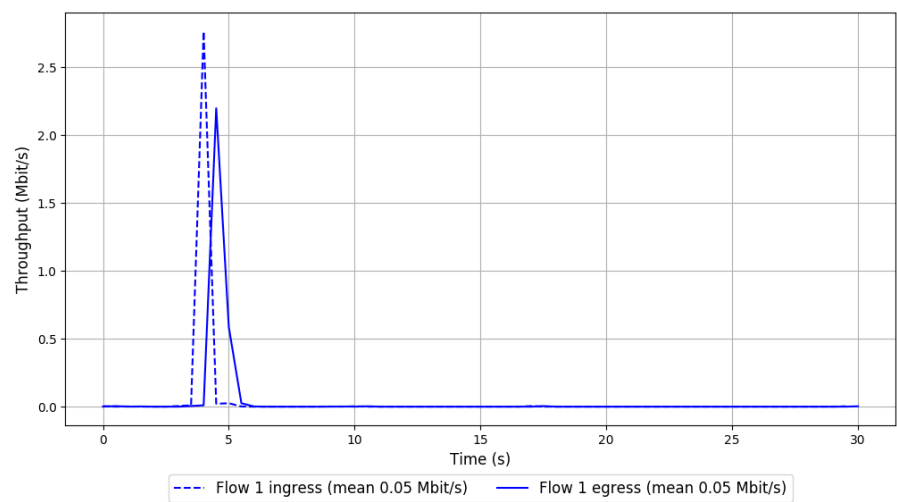
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.085 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link





Run 5: Statistics of WebRTC media

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

End at: 2019-01-18 20:01:50

Local clock offset: 3.145 ms

Remote clock offset: 3.448 ms

# Below is generated by plot.py at 2019-01-18 22:24:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.325 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.325 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

