

## Pantheon Report

Generated at 2018-05-22 03:18:13 (UTC).

Data path: AWS California 1 Ethernet (*local*) → Stanford Ethernet (*remote*).

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

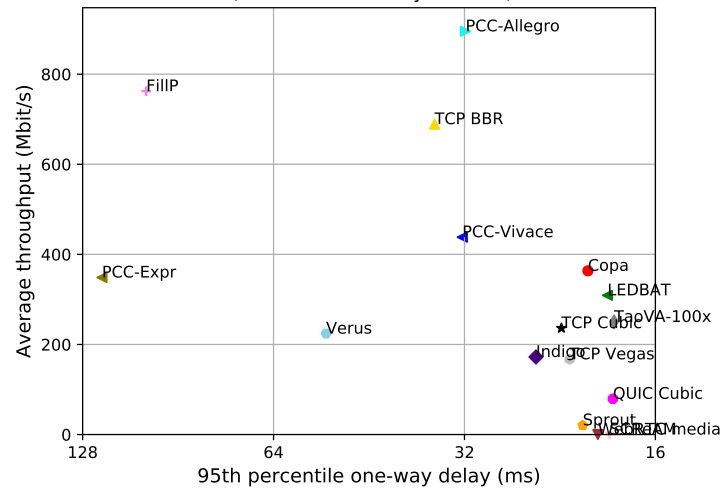
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

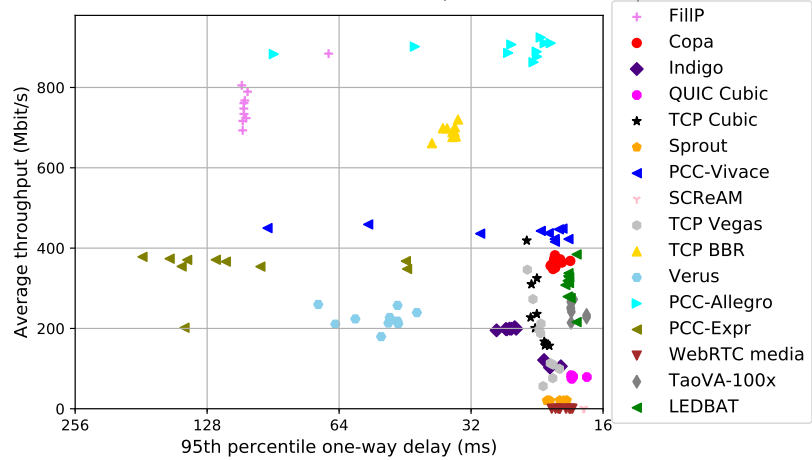
Git summary:

```
branch: master @ 2d1d4407e851ba626e5ca4626a306105793df686
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
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-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from AWS California 1 Ethernet to Stanford Ethernet, 10 runs of 30s each per scheme  
(mean of all runs by scheme)



test from AWS California 1 Ethernet to Stanford Ethernet, 10 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	10	689.08	35.67	0.40
Copa	10	363.51	20.44	0.01
TCP Cubic	10	236.23	22.51	0.05
FillP	10	762.27	101.60	3.71
Indigo	10	172.23	24.68	0.01
LEDBAT	10	309.04	19.05	0.01
PCC-Allegro	10	895.19	31.87	0.52
PCC-Expr	10	348.58	119.34	5.16
QUIC Cubic	9	79.34	18.67	0.00
SCReAM	10	0.21	18.90	0.02
Sprout	10	20.50	20.83	0.02
TaoVA-100x	10	249.98	18.59	0.01
TCP Vegas	10	167.07	21.85	0.07
Verus	10	224.09	52.89	19.68
PCC-Vivace	10	438.12	32.26	0.03
WebRTC media	10	0.05	19.72	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-05-21 21:57:01

End at: 2018-05-21 21:57:31

Local clock offset: -2.865 ms

Remote clock offset: 2.144 ms

# Below is generated by plot.py at 2018-05-22 01:51:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 661.26 Mbit/s

95th percentile per-packet one-way delay: 39.301 ms

Loss rate: 0.52%

-- Flow 1:

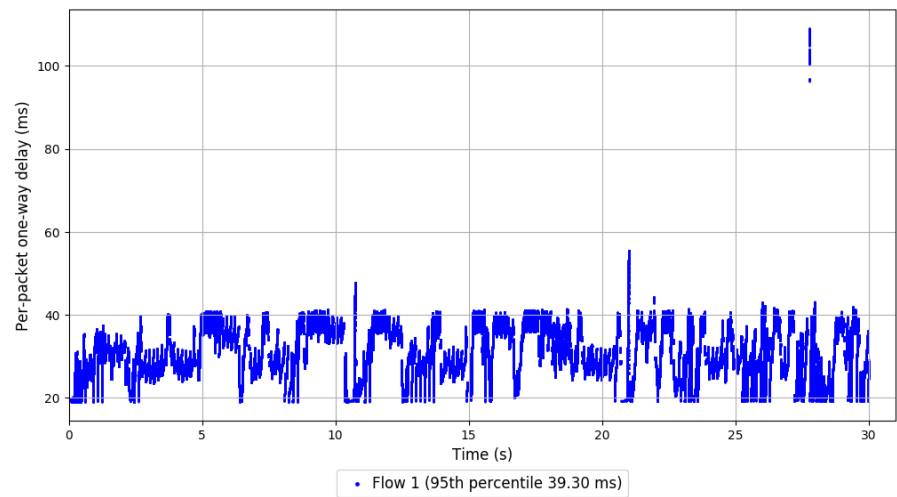
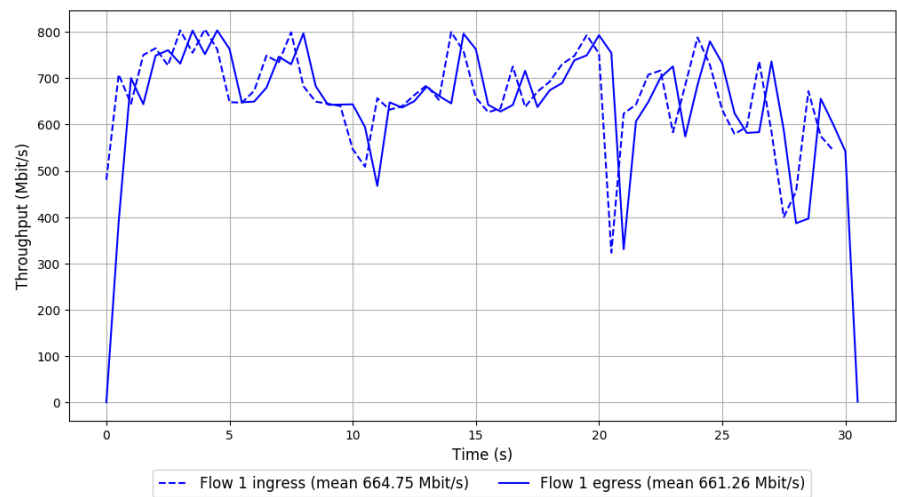
Average throughput: 661.26 Mbit/s

95th percentile per-packet one-way delay: 39.301 ms

Loss rate: 0.52%



Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-05-21 22:21:01

End at: 2018-05-21 22:21:31

Local clock offset: -1.093 ms

Remote clock offset: 2.153 ms

# Below is generated by plot.py at 2018-05-22 01:52:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 698.52 Mbit/s

95th percentile per-packet one-way delay: 37.113 ms

Loss rate: 0.76%

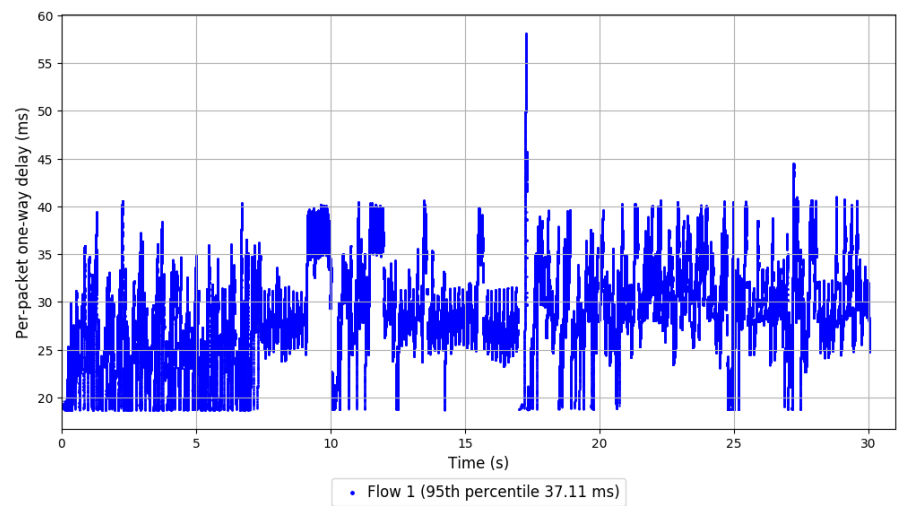
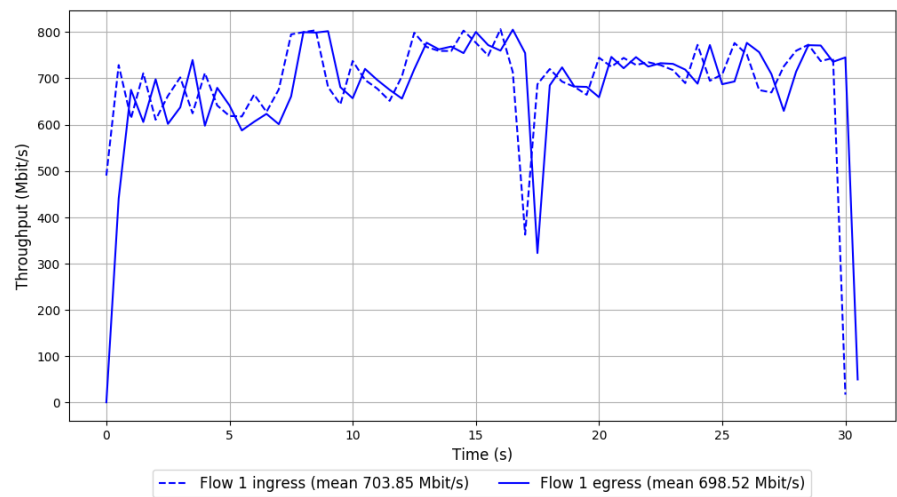
-- Flow 1:

Average throughput: 698.52 Mbit/s

95th percentile per-packet one-way delay: 37.113 ms

Loss rate: 0.76%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-05-21 22:44:50

End at: 2018-05-21 22:45:20

Local clock offset: 1.587 ms

Remote clock offset: 1.241 ms

# Below is generated by plot.py at 2018-05-22 01:52:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 698.12 Mbit/s

95th percentile per-packet one-way delay: 36.285 ms

Loss rate: 0.33%

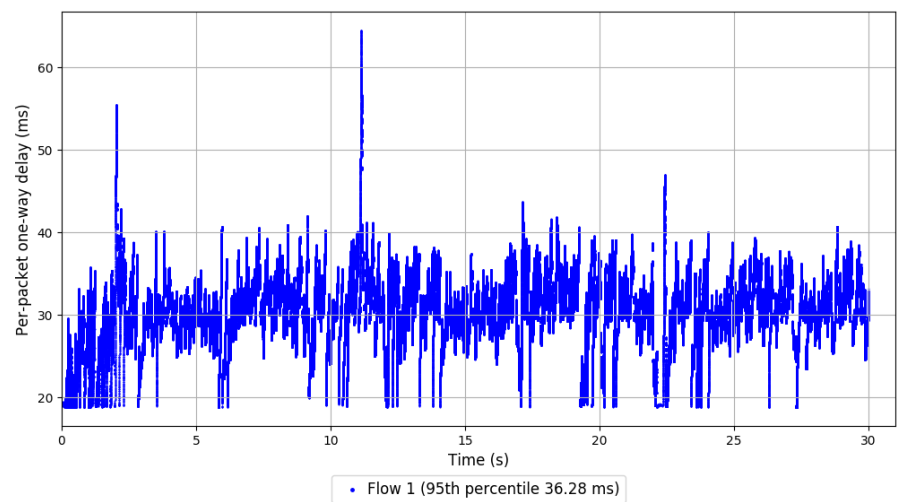
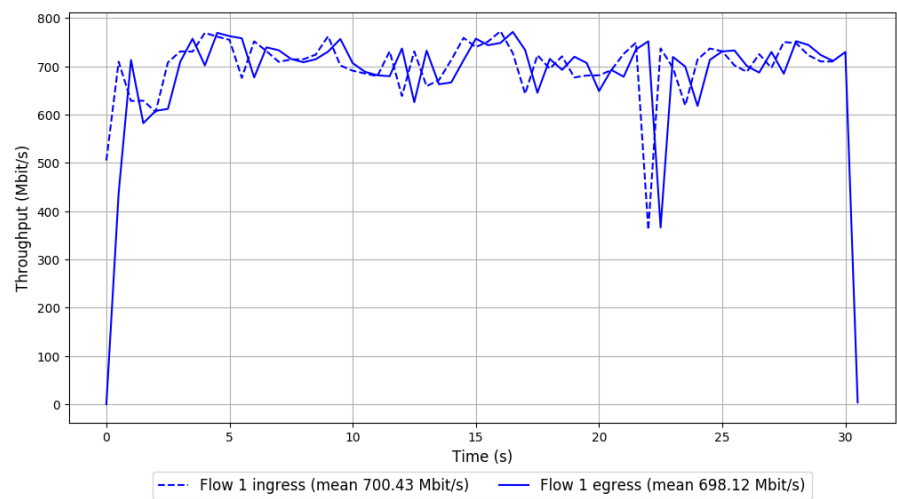
-- Flow 1:

Average throughput: 698.12 Mbit/s

95th percentile per-packet one-way delay: 36.285 ms

Loss rate: 0.33%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-05-21 23:08:48

End at: 2018-05-21 23:09:18

Local clock offset: 0.201 ms

Remote clock offset: 0.401 ms

# Below is generated by plot.py at 2018-05-22 01:52:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 688.86 Mbit/s

95th percentile per-packet one-way delay: 34.870 ms

Loss rate: 0.44%

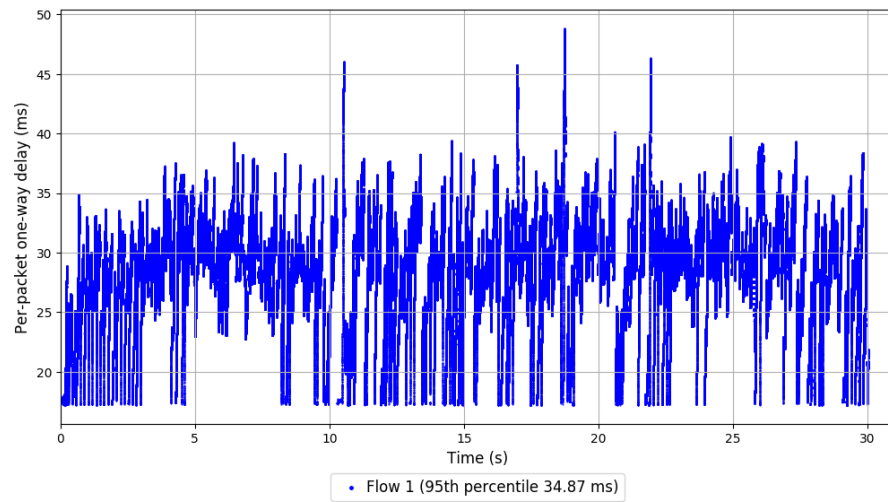
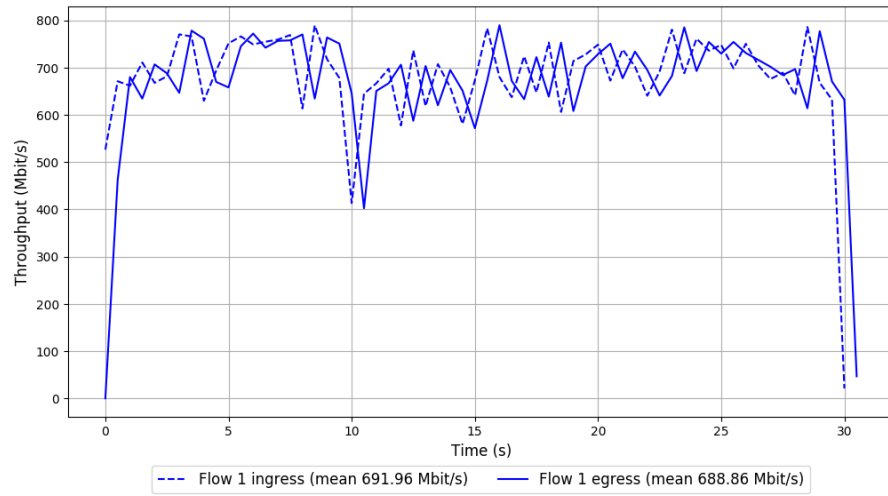
-- Flow 1:

Average throughput: 688.86 Mbit/s

95th percentile per-packet one-way delay: 34.870 ms

Loss rate: 0.44%

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



Run 5: Statistics of TCP BBR

Start at: 2018-05-21 23:32:44

End at: 2018-05-21 23:33:14

Local clock offset: -0.482 ms

Remote clock offset: 0.15 ms

# Below is generated by plot.py at 2018-05-22 01:52:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 678.41 Mbit/s

95th percentile per-packet one-way delay: 34.722 ms

Loss rate: 0.40%

-- Flow 1:

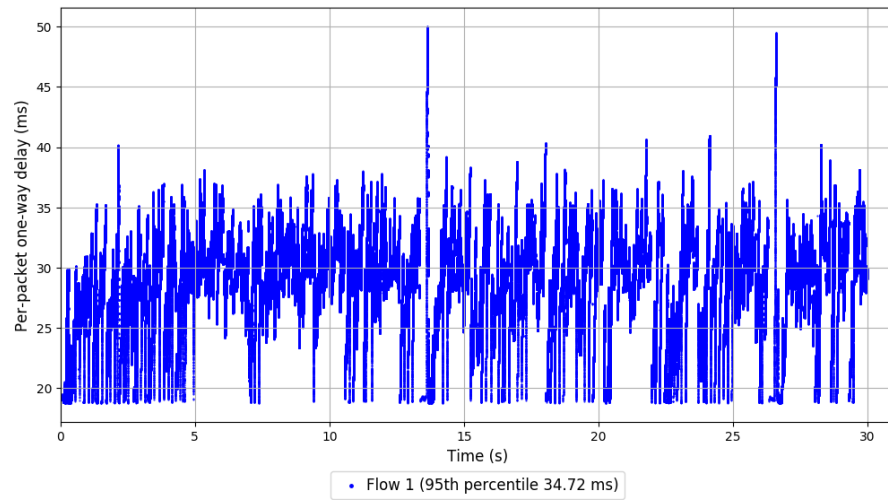
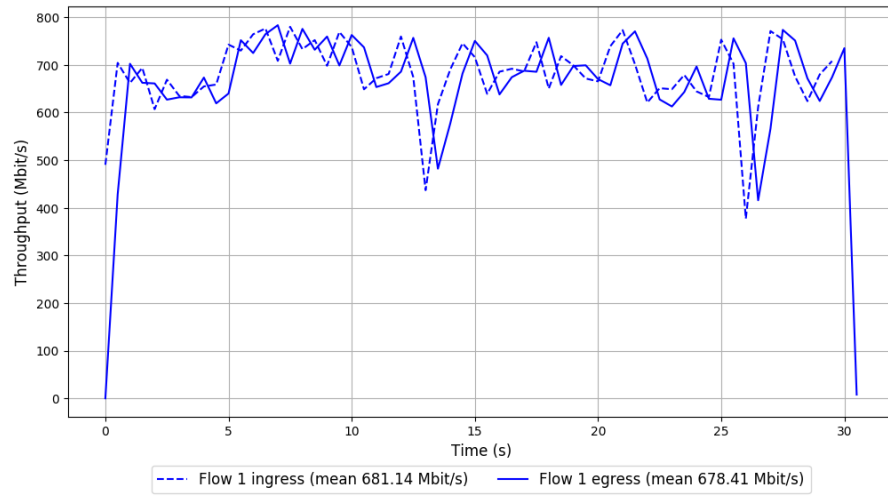
Average throughput: 678.41 Mbit/s

95th percentile per-packet one-way delay: 34.722 ms

Loss rate: 0.40%



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

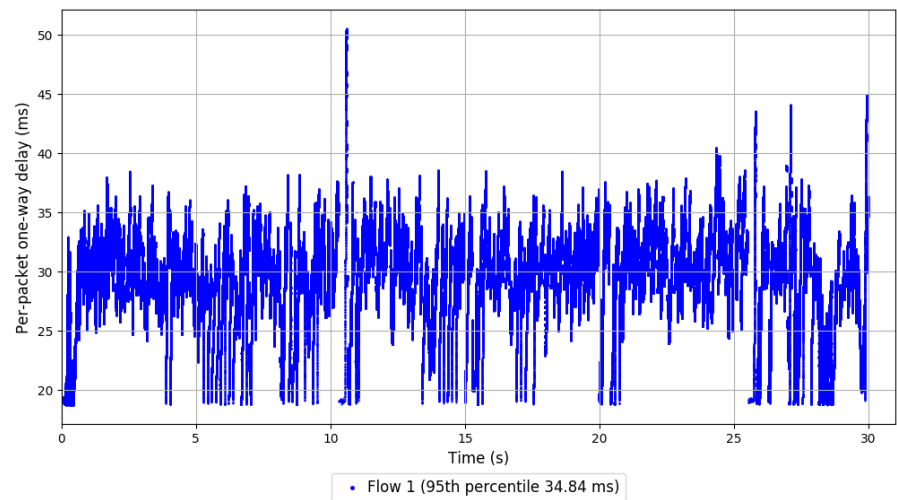
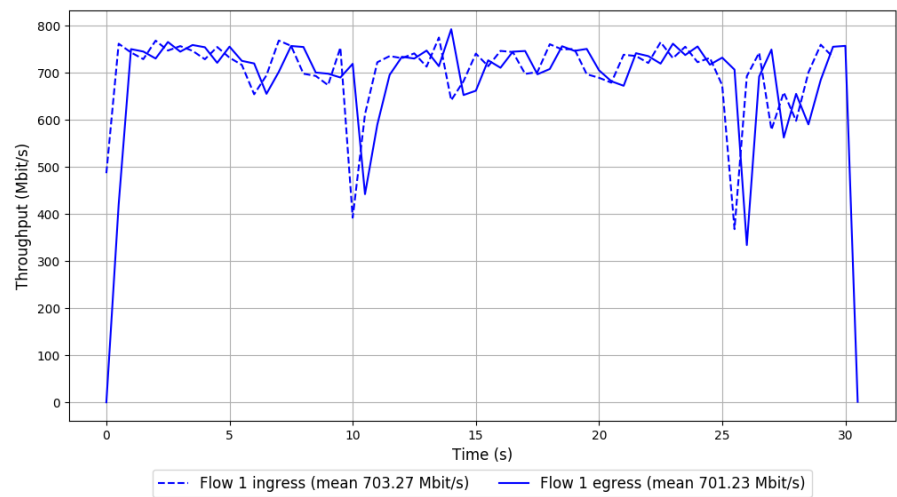


Run 6: Statistics of TCP BBR

Start at: 2018-05-21 23:56:44  
End at: 2018-05-21 23:57:14  
Local clock offset: -0.453 ms  
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2018-05-22 01:52:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 701.23 Mbit/s  
95th percentile per-packet one-way delay: 34.836 ms  
Loss rate: 0.29%  
-- Flow 1:  
Average throughput: 701.23 Mbit/s  
95th percentile per-packet one-way delay: 34.836 ms  
Loss rate: 0.29%

Run 6: Report of TCP BBR — Data Link

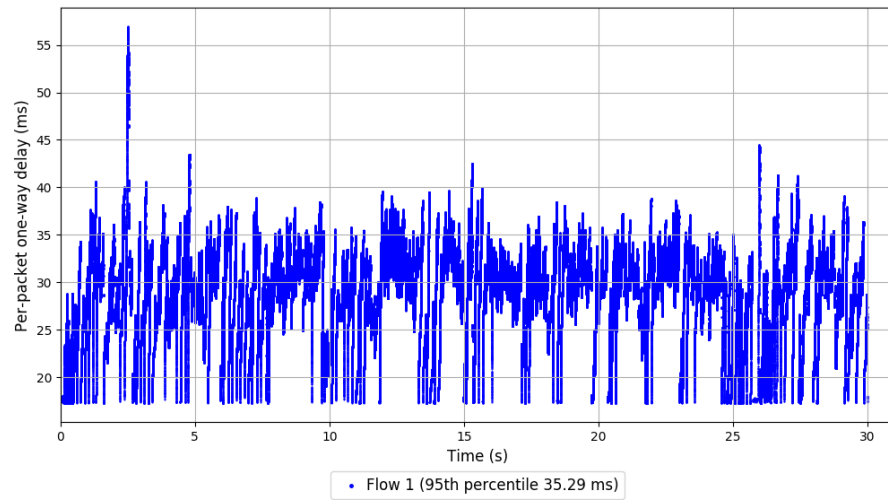
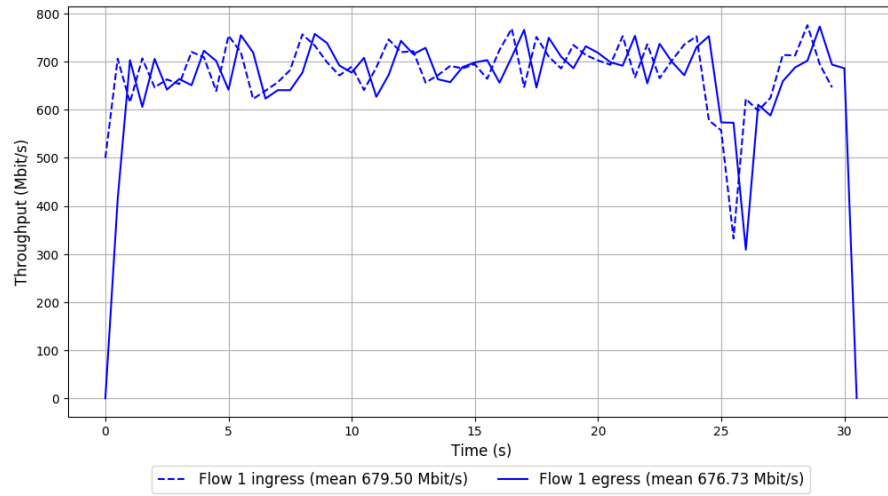


Run 7: Statistics of TCP BBR

Start at: 2018-05-22 00:20:32  
End at: 2018-05-22 00:21:02  
Local clock offset: 0.12 ms  
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2018-05-22 01:52:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 676.73 Mbit/s  
95th percentile per-packet one-way delay: 35.292 ms  
Loss rate: 0.41%  
-- Flow 1:  
Average throughput: 676.73 Mbit/s  
95th percentile per-packet one-way delay: 35.292 ms  
Loss rate: 0.41%

### Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-05-22 00:44:17

End at: 2018-05-22 00:44:47

Local clock offset: 0.215 ms

Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2018-05-22 01:52:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 720.39 Mbit/s

95th percentile per-packet one-way delay: 34.275 ms

Loss rate: 0.22%

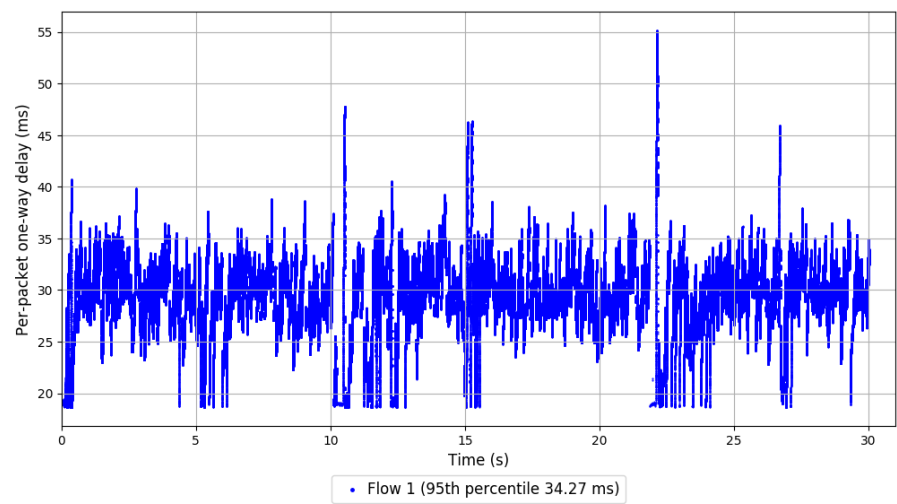
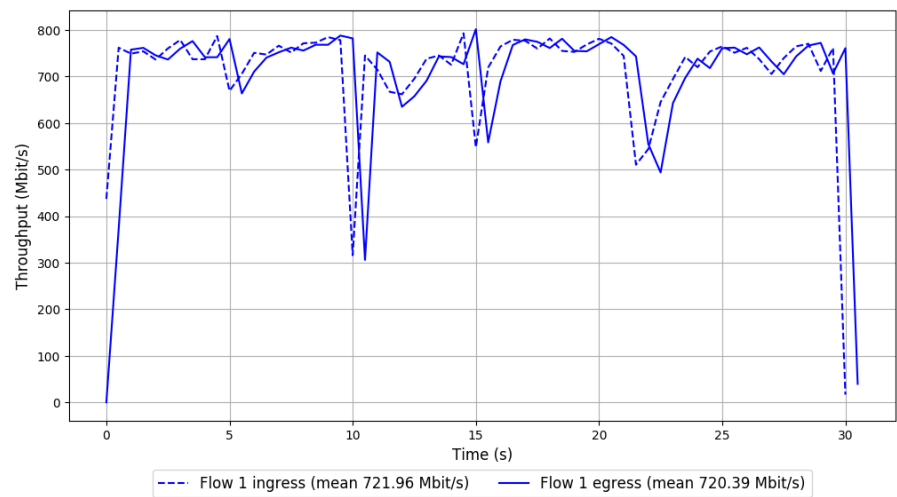
-- Flow 1:

Average throughput: 720.39 Mbit/s

95th percentile per-packet one-way delay: 34.275 ms

Loss rate: 0.22%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-05-22 01:07:53

End at: 2018-05-22 01:08:23

Local clock offset: 0.036 ms

Remote clock offset: 0.033 ms

# Below is generated by plot.py at 2018-05-22 02:00:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 689.08 Mbit/s

95th percentile per-packet one-way delay: 35.307 ms

Loss rate: 0.26%

-- Flow 1:

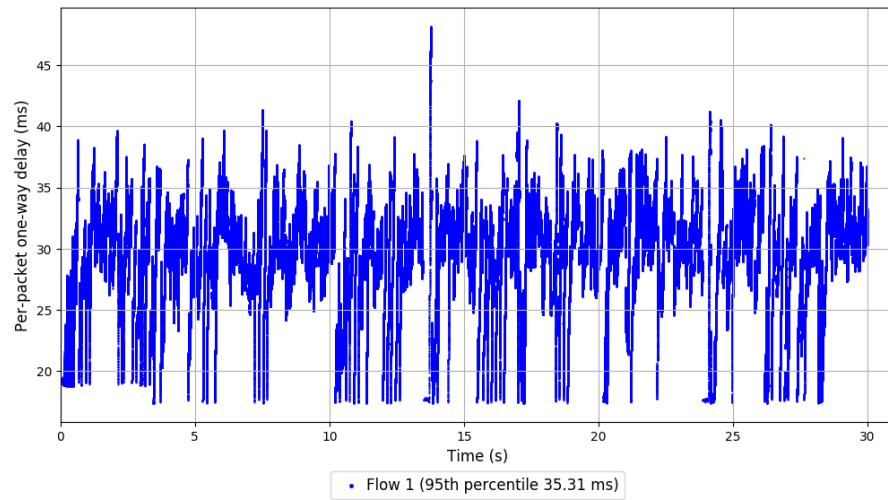
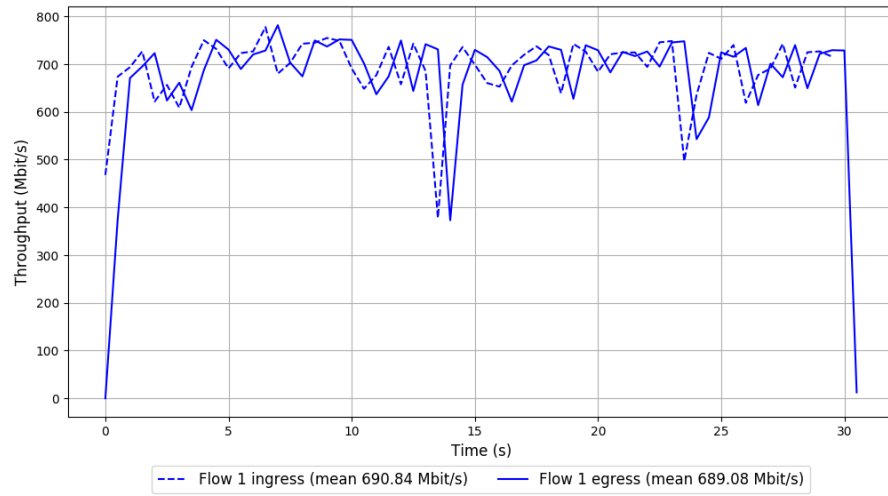
Average throughput: 689.08 Mbit/s

95th percentile per-packet one-way delay: 35.307 ms

Loss rate: 0.26%



### Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-05-22 01:31:28

End at: 2018-05-22 01:31:58

Local clock offset: 0.004 ms

Remote clock offset: 0.178 ms

# Below is generated by plot.py at 2018-05-22 02:00:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 678.22 Mbit/s

95th percentile per-packet one-way delay: 34.688 ms

Loss rate: 0.36%

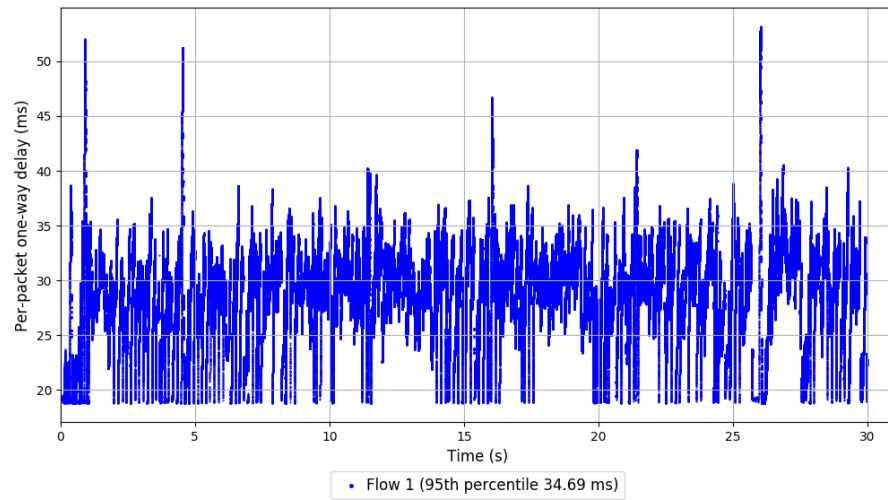
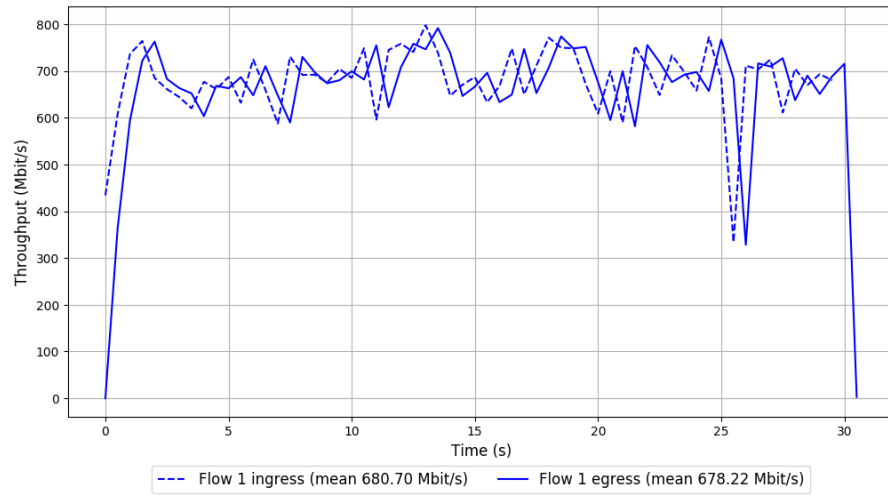
-- Flow 1:

Average throughput: 678.22 Mbit/s

95th percentile per-packet one-way delay: 34.688 ms

Loss rate: 0.36%

### Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-05-21 21:58:41

End at: 2018-05-21 21:59:11

Local clock offset: -2.408 ms

Remote clock offset: 2.092 ms

# Below is generated by plot.py at 2018-05-22 02:00:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 358.76 Mbit/s

95th percentile per-packet one-way delay: 20.961 ms

Loss rate: 0.00%

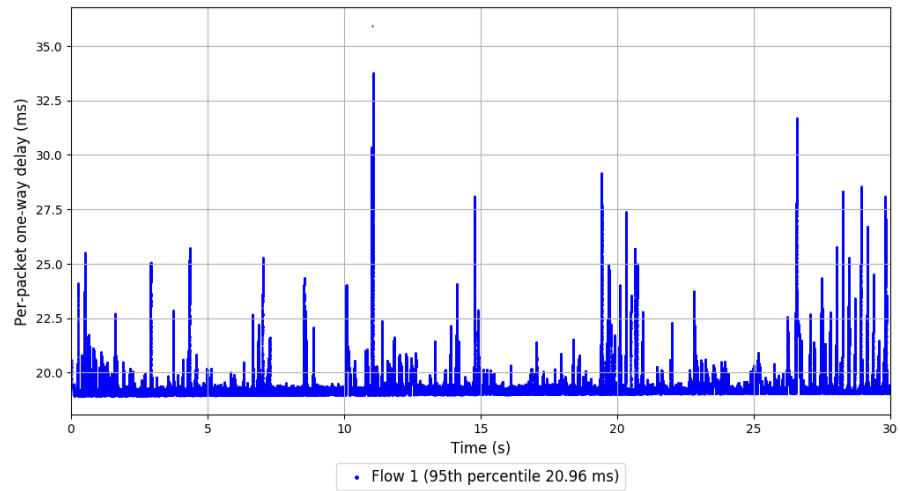
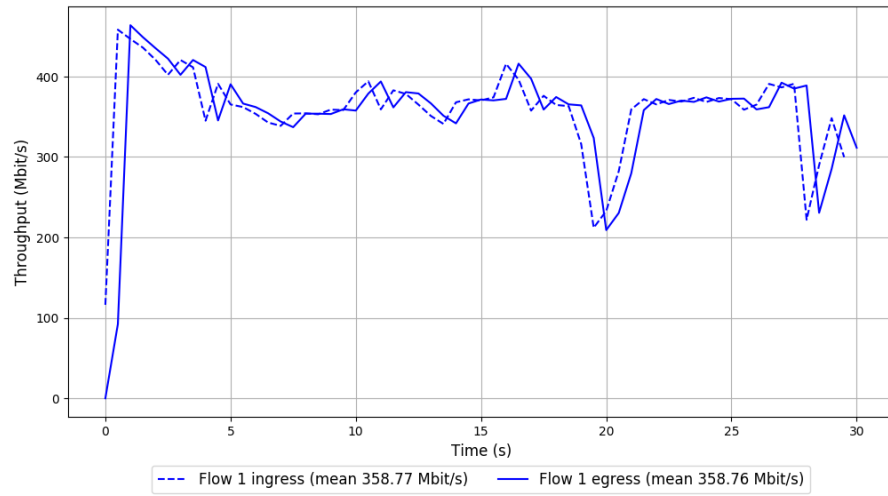
-- Flow 1:

Average throughput: 358.76 Mbit/s

95th percentile per-packet one-way delay: 20.961 ms

Loss rate: 0.00%

## Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-05-21 22:22:44

End at: 2018-05-21 22:23:14

Local clock offset: -1.155 ms

Remote clock offset: 1.778 ms

# Below is generated by plot.py at 2018-05-22 02:00:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 356.18 Mbit/s

95th percentile per-packet one-way delay: 21.077 ms

Loss rate: 0.01%

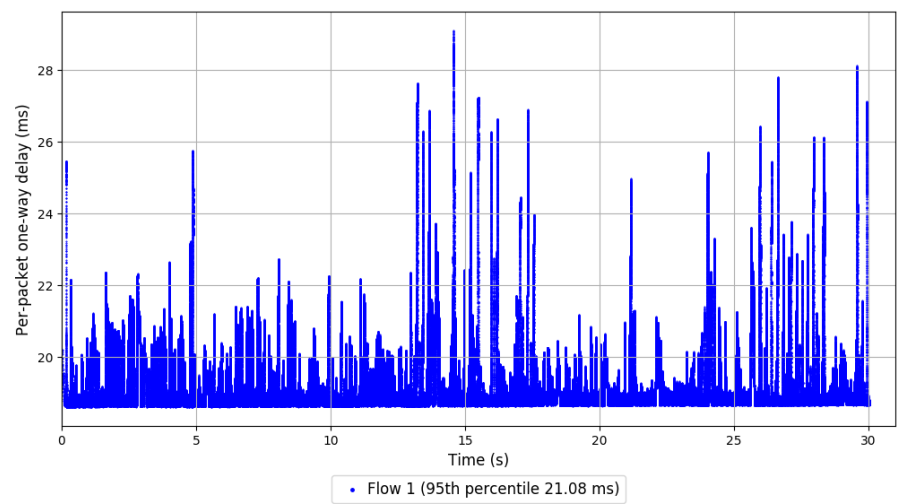
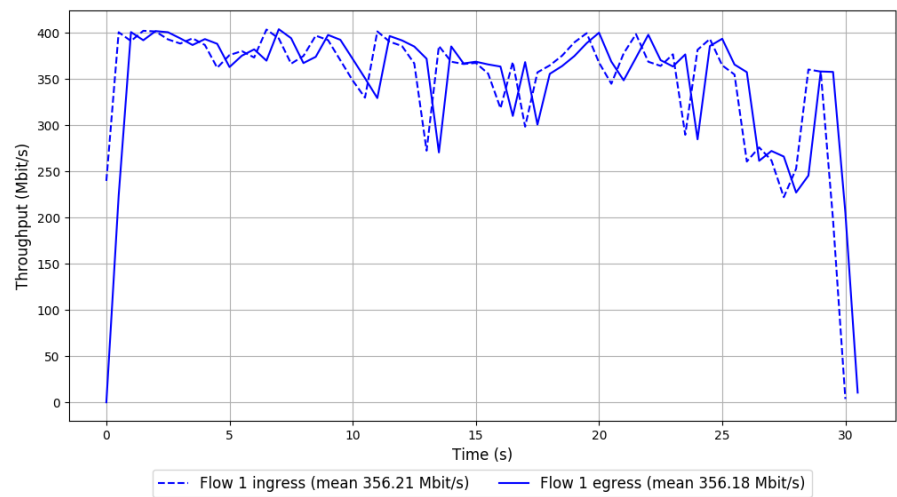
-- Flow 1:

Average throughput: 356.18 Mbit/s

95th percentile per-packet one-way delay: 21.077 ms

Loss rate: 0.01%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-05-21 22:46:31

End at: 2018-05-21 22:47:01

Local clock offset: 1.738 ms

Remote clock offset: 1.29 ms

# Below is generated by plot.py at 2018-05-22 02:00:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 351.43 Mbit/s

95th percentile per-packet one-way delay: 20.562 ms

Loss rate: 0.00%

-- Flow 1:

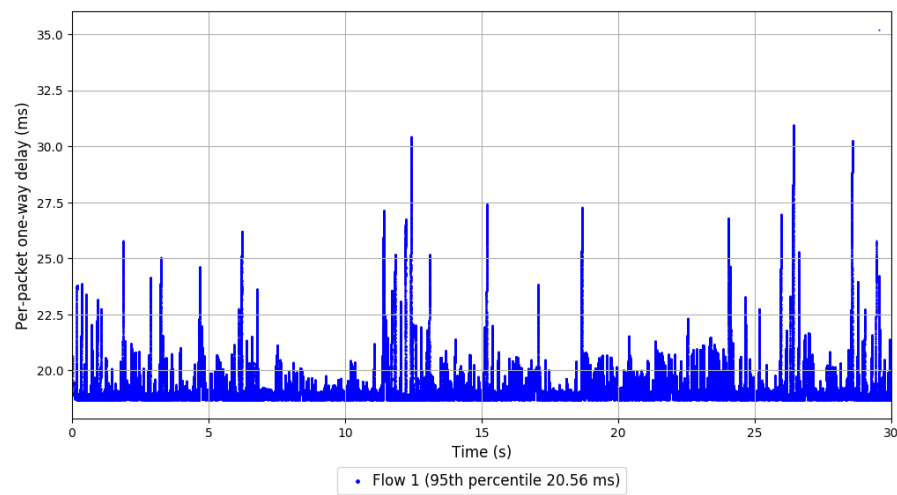
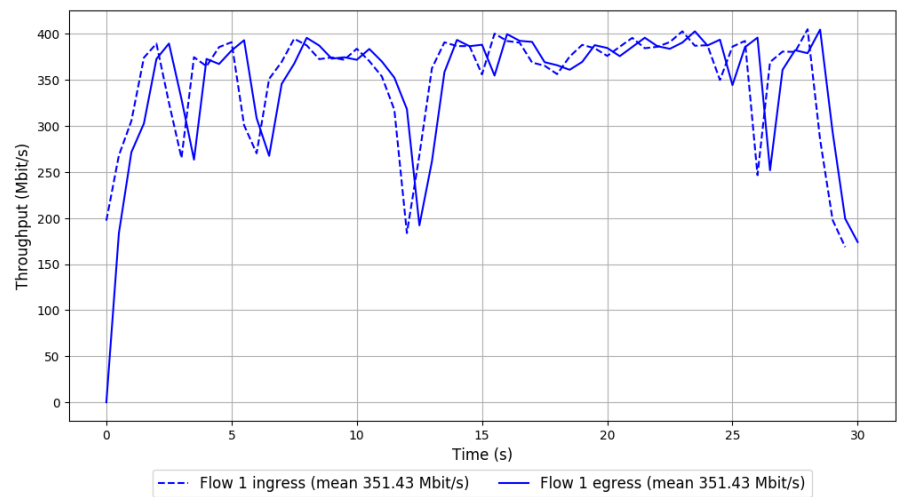
Average throughput: 351.43 Mbit/s

95th percentile per-packet one-way delay: 20.562 ms

Loss rate: 0.00%



Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-05-21 23:10:31

End at: 2018-05-21 23:11:02

Local clock offset: -0.019 ms

Remote clock offset: 0.335 ms

# Below is generated by plot.py at 2018-05-22 02:01:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 382.12 Mbit/s

95th percentile per-packet one-way delay: 20.599 ms

Loss rate: 0.00%

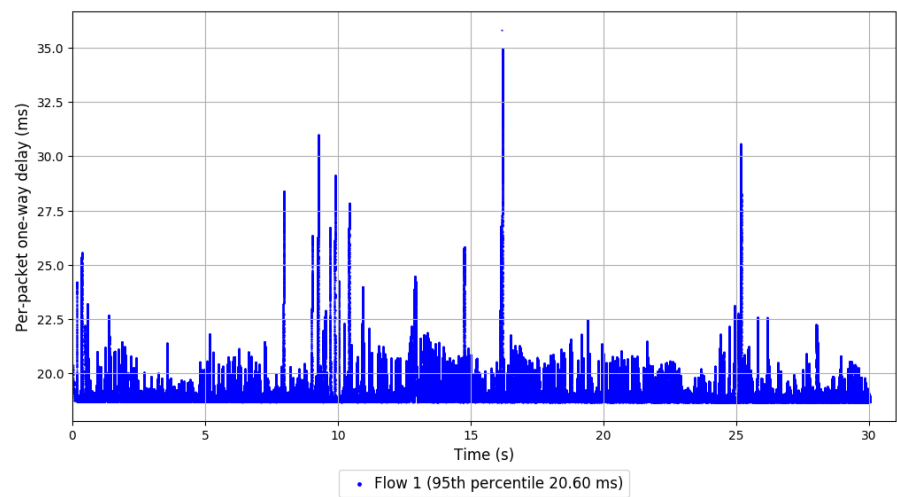
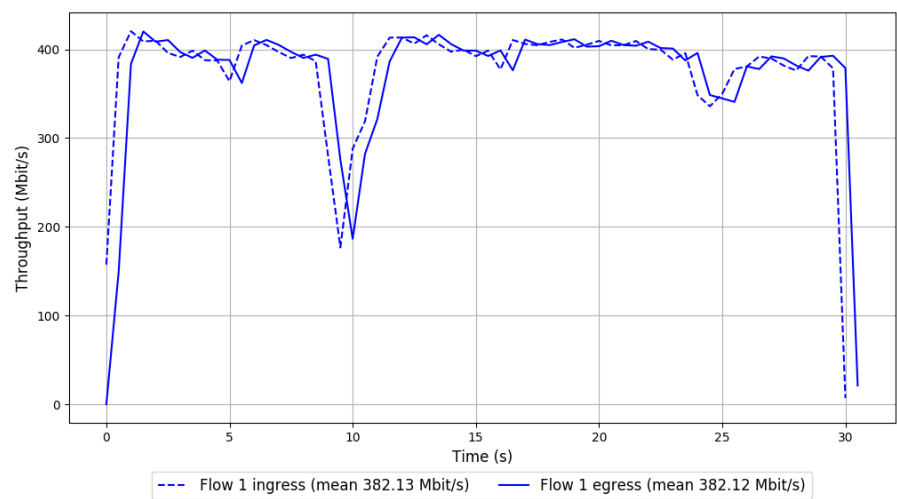
-- Flow 1:

Average throughput: 382.12 Mbit/s

95th percentile per-packet one-way delay: 20.599 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-05-21 23:34:24

End at: 2018-05-21 23:34:54

Local clock offset: -0.343 ms

Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2018-05-22 02:01:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 364.05 Mbit/s

95th percentile per-packet one-way delay: 19.870 ms

Loss rate: 0.00%

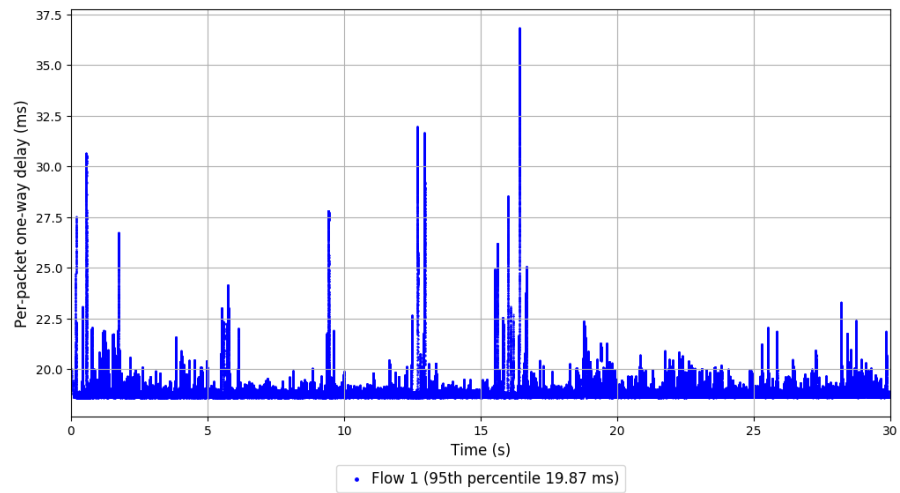
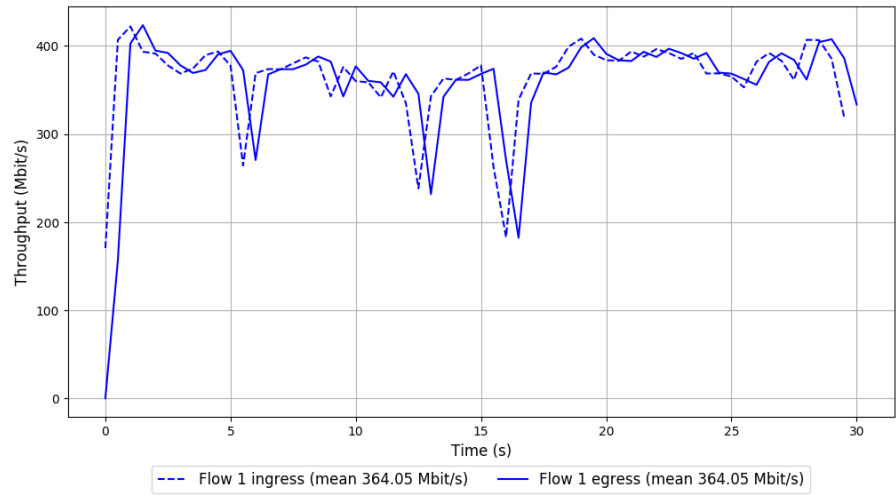
-- Flow 1:

Average throughput: 364.05 Mbit/s

95th percentile per-packet one-way delay: 19.870 ms

Loss rate: 0.00%

### Run 5: Report of Copa — Data Link

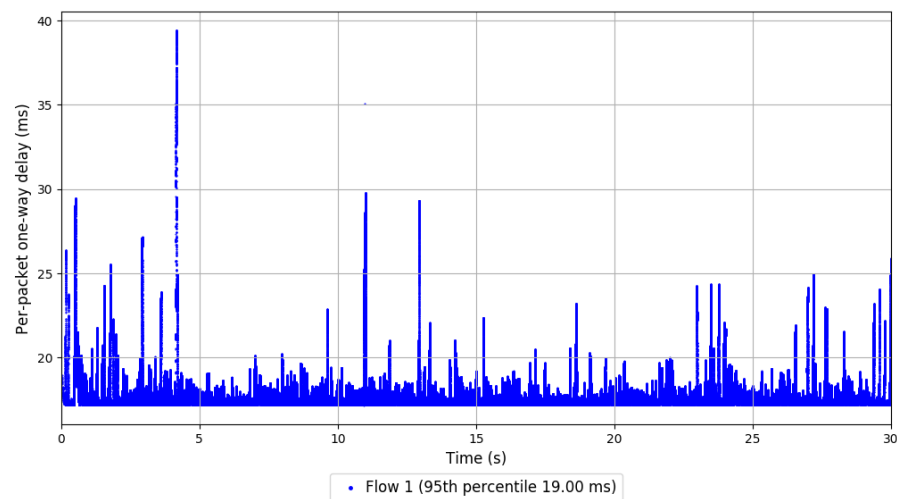
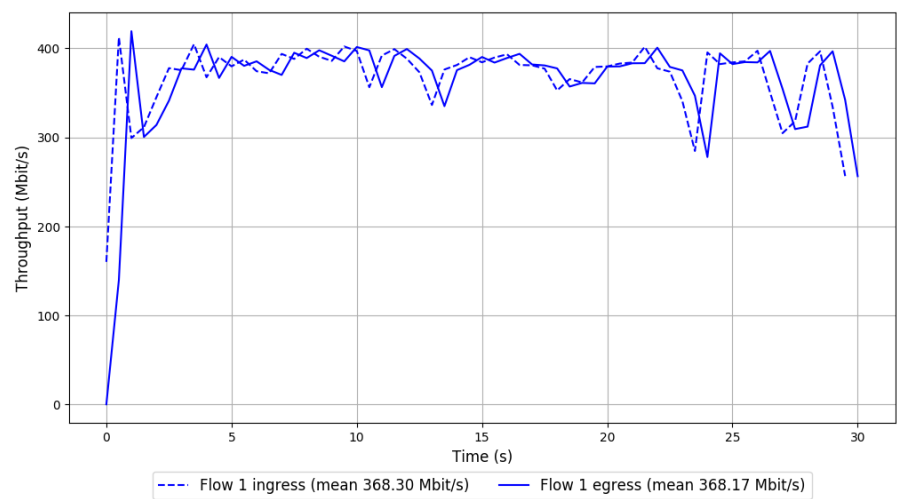


Run 6: Statistics of Copa

Start at: 2018-05-21 23:58:27  
End at: 2018-05-21 23:58:57  
Local clock offset: -0.262 ms  
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2018-05-22 02:01:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 368.17 Mbit/s  
95th percentile per-packet one-way delay: 19.005 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 368.17 Mbit/s  
95th percentile per-packet one-way delay: 19.005 ms  
Loss rate: 0.03%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-05-22 00:22:12

End at: 2018-05-22 00:22:42

Local clock offset: 0.194 ms

Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2018-05-22 02:08:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 348.01 Mbit/s

95th percentile per-packet one-way delay: 20.802 ms

Loss rate: 0.03%

-- Flow 1:

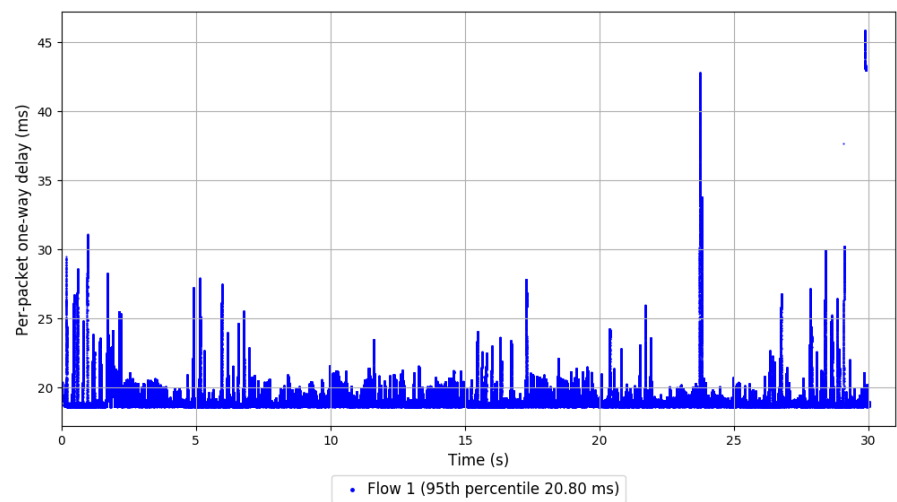
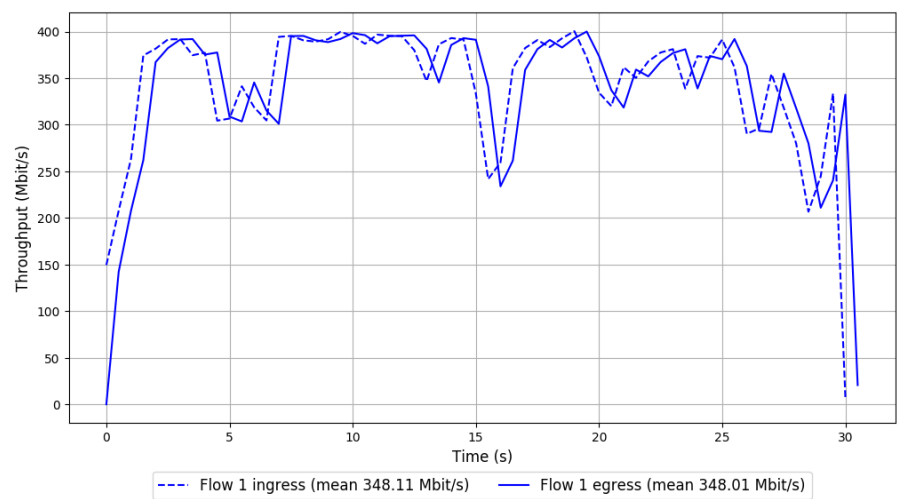
Average throughput: 348.01 Mbit/s

95th percentile per-packet one-way delay: 20.802 ms

Loss rate: 0.03%



Run 7: Report of Copa — Data Link

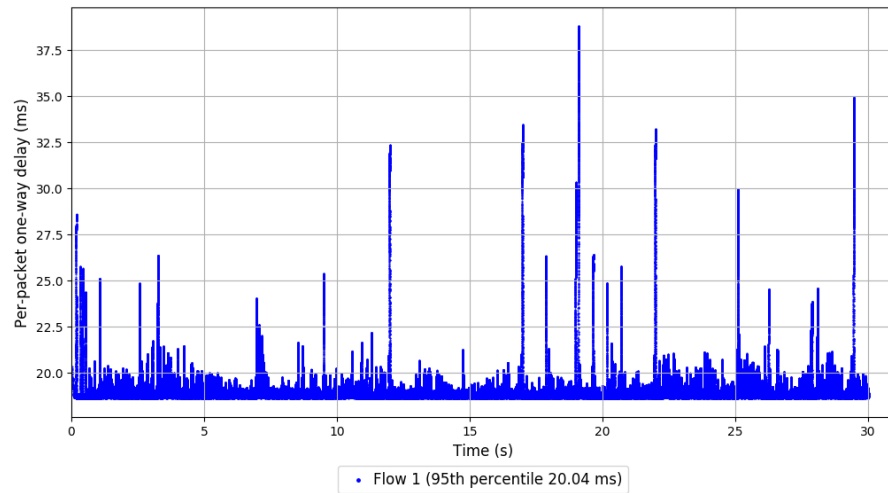
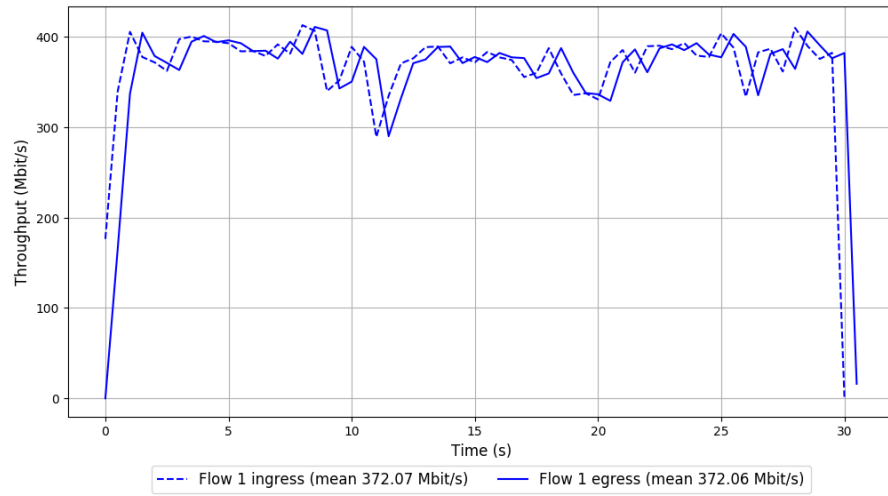


Run 8: Statistics of Copa

Start at: 2018-05-22 00:45:57  
End at: 2018-05-22 00:46:27  
Local clock offset: 0.215 ms  
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2018-05-22 02:08:52  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 372.06 Mbit/s  
95th percentile per-packet one-way delay: 20.041 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 372.06 Mbit/s  
95th percentile per-packet one-way delay: 20.041 ms  
Loss rate: 0.00%

## Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-05-22 01:09:33

End at: 2018-05-22 01:10:03

Local clock offset: 0.116 ms

Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2018-05-22 02:08:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 361.47 Mbit/s

95th percentile per-packet one-way delay: 20.813 ms

Loss rate: 0.00%

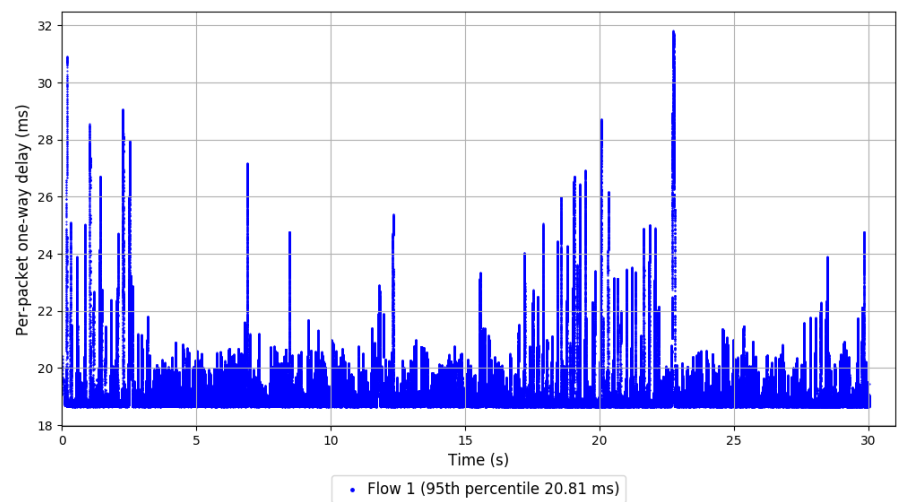
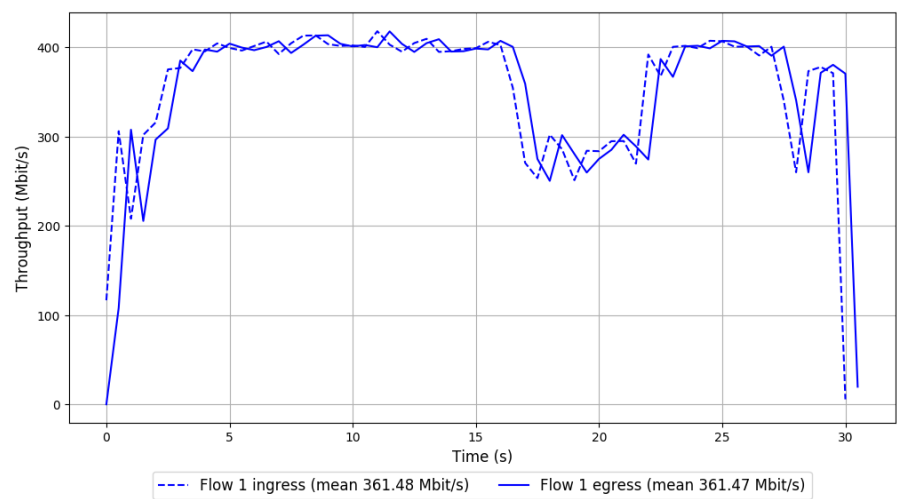
-- Flow 1:

Average throughput: 361.47 Mbit/s

95th percentile per-packet one-way delay: 20.813 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-05-22 01:33:08

End at: 2018-05-22 01:33:38

Local clock offset: 0.118 ms

Remote clock offset: 0.18 ms

# Below is generated by plot.py at 2018-05-22 02:08:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 372.87 Mbit/s

95th percentile per-packet one-way delay: 20.689 ms

Loss rate: 0.01%

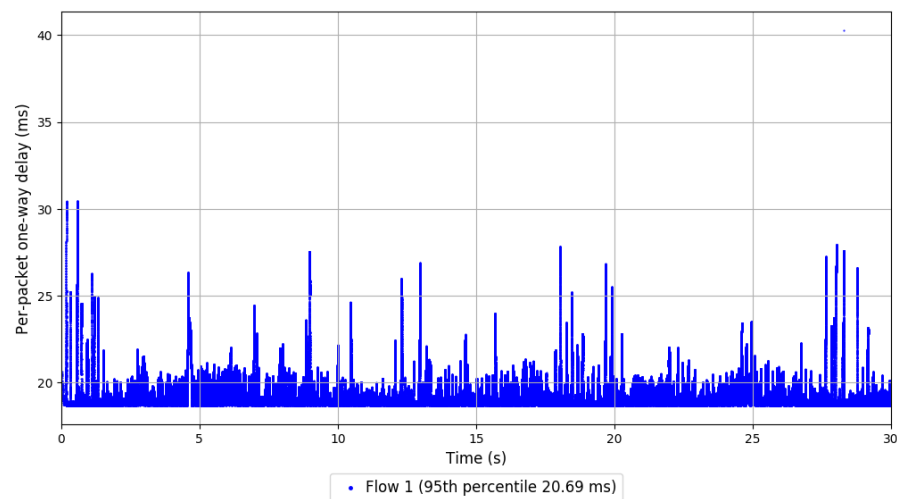
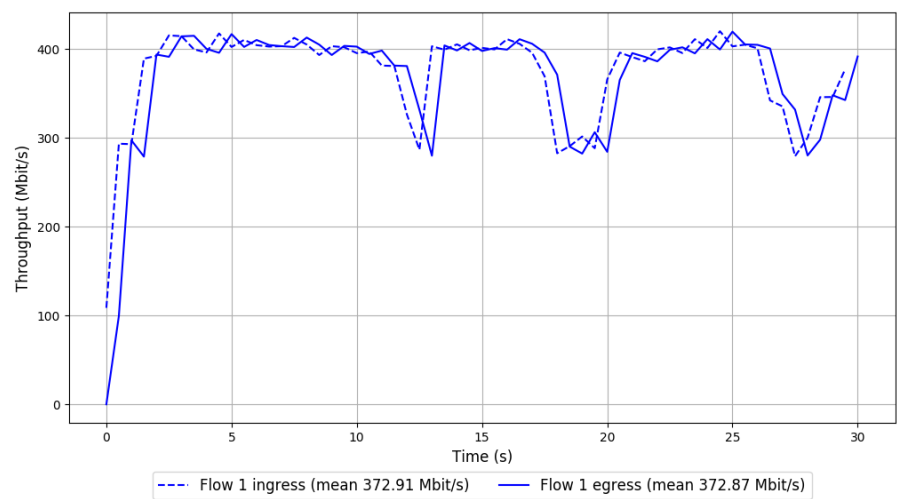
-- Flow 1:

Average throughput: 372.87 Mbit/s

95th percentile per-packet one-way delay: 20.689 ms

Loss rate: 0.01%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-05-21 21:55:39

End at: 2018-05-21 21:56:09

Local clock offset: -2.701 ms

Remote clock offset: 2.248 ms

# Below is generated by plot.py at 2018-05-22 02:08:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 162.35 Mbit/s

95th percentile per-packet one-way delay: 21.587 ms

Loss rate: 0.04%

-- Flow 1:

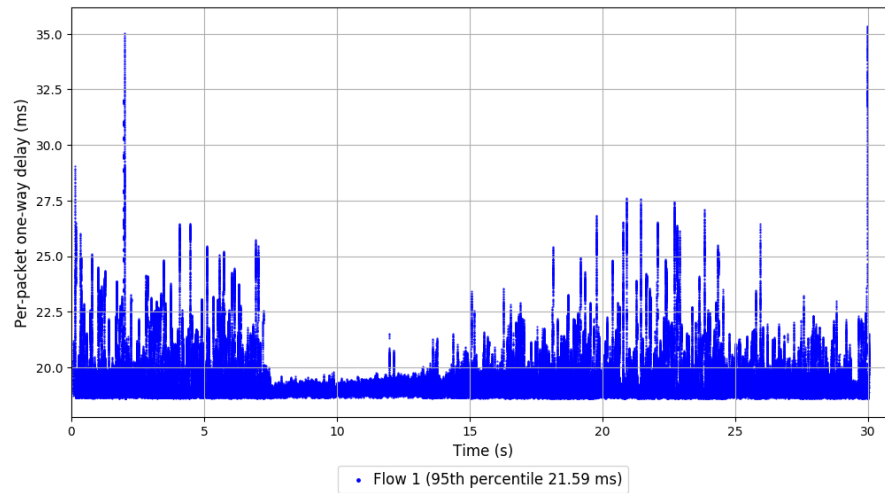
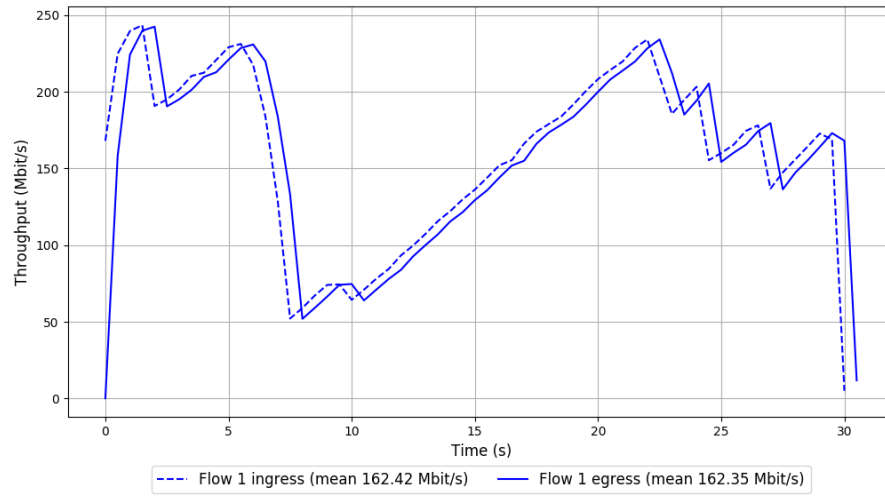
Average throughput: 162.35 Mbit/s

95th percentile per-packet one-way delay: 21.587 ms

Loss rate: 0.04%



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



Run 2: Statistics of TCP Cubic

Start at: 2018-05-21 22:19:37

End at: 2018-05-21 22:20:07

Local clock offset: -1.055 ms

Remote clock offset: 2.506 ms

# Below is generated by plot.py at 2018-05-22 02:08:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 200.59 Mbit/s

95th percentile per-packet one-way delay: 22.864 ms

Loss rate: 0.04%

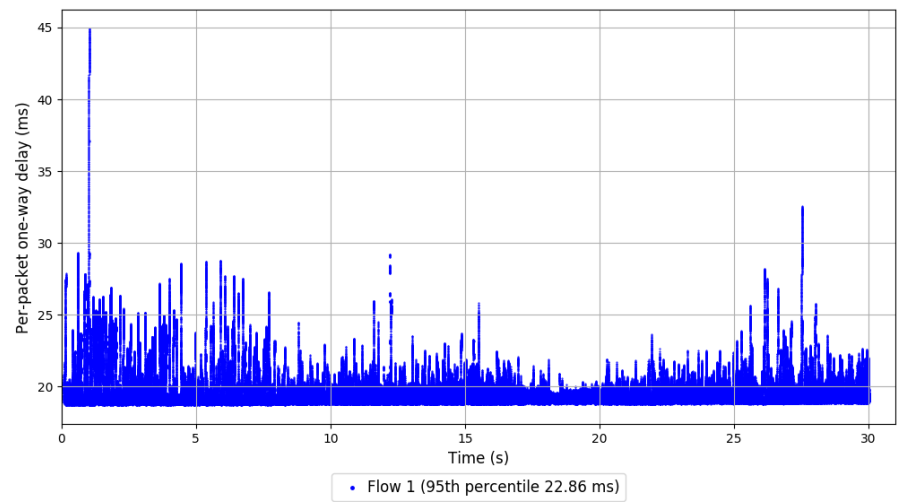
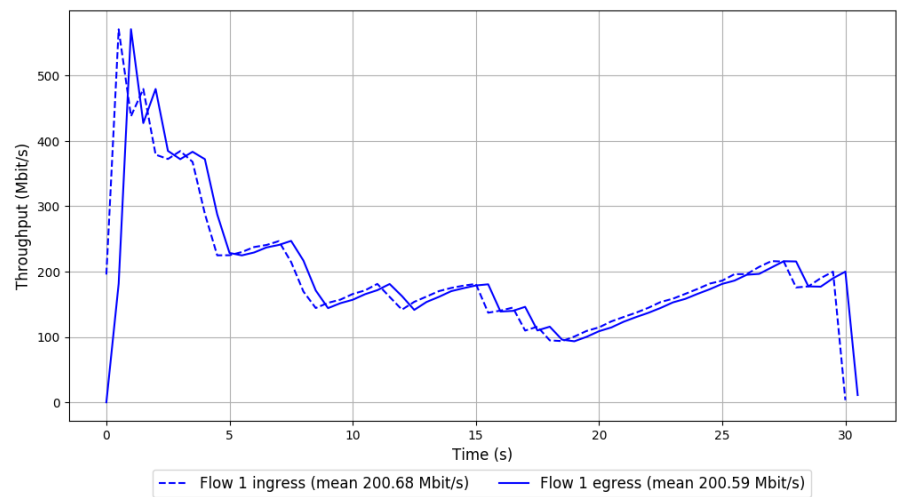
-- Flow 1:

Average throughput: 200.59 Mbit/s

95th percentile per-packet one-way delay: 22.864 ms

Loss rate: 0.04%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-05-21 22:43:28

End at: 2018-05-21 22:43:58

Local clock offset: 1.558 ms

Remote clock offset: 1.174 ms

# Below is generated by plot.py at 2018-05-22 02:08:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 157.92 Mbit/s

95th percentile per-packet one-way delay: 21.703 ms

Loss rate: 0.02%

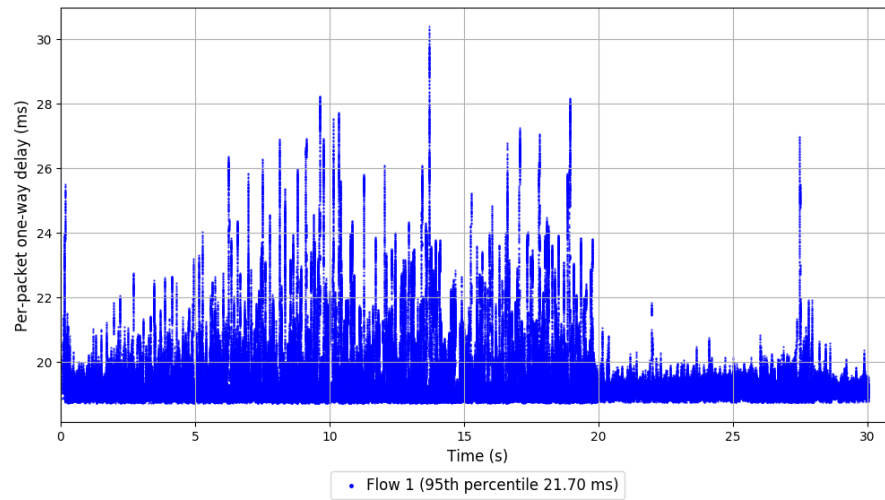
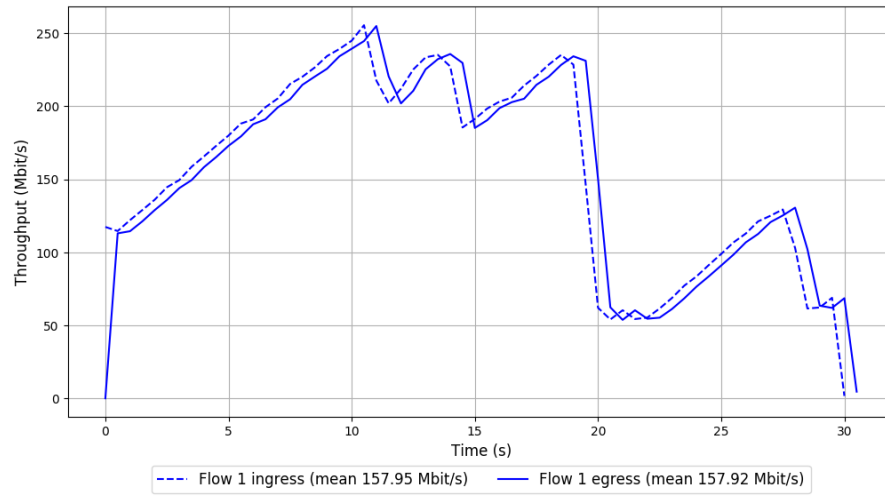
-- Flow 1:

Average throughput: 157.92 Mbit/s

95th percentile per-packet one-way delay: 21.703 ms

Loss rate: 0.02%

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



Run 4: Statistics of TCP Cubic

Start at: 2018-05-21 23:07:18

End at: 2018-05-21 23:07:48

Local clock offset: 0.319 ms

Remote clock offset: 0.374 ms

# Below is generated by plot.py at 2018-05-22 02:08:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 418.79 Mbit/s

95th percentile per-packet one-way delay: 23.890 ms

Loss rate: 0.03%

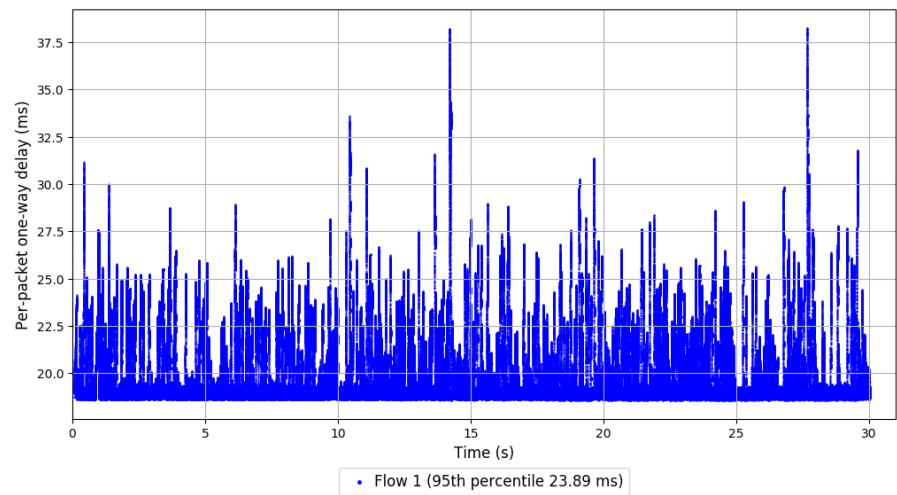
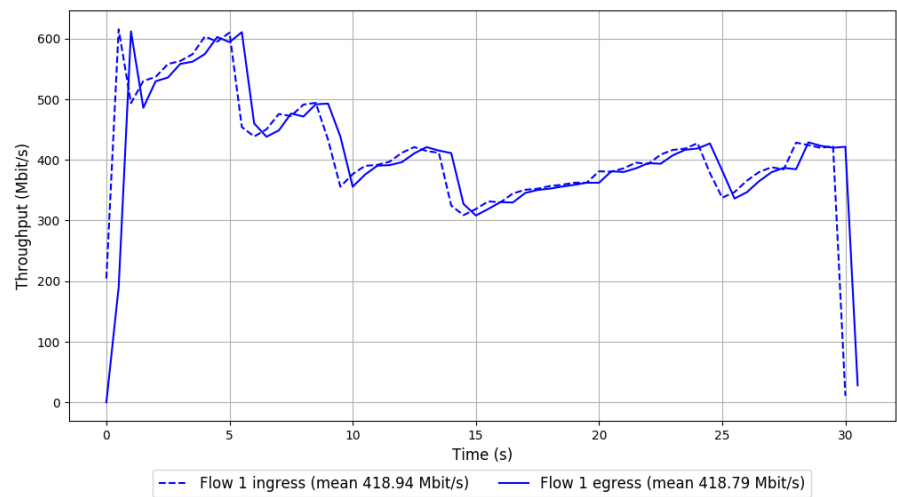
-- Flow 1:

Average throughput: 418.79 Mbit/s

95th percentile per-packet one-way delay: 23.890 ms

Loss rate: 0.03%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-05-21 23:31:17

End at: 2018-05-21 23:31:47

Local clock offset: -0.453 ms

Remote clock offset: 0.203 ms

# Below is generated by plot.py at 2018-05-22 02:08:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 310.04 Mbit/s

95th percentile per-packet one-way delay: 23.303 ms

Loss rate: 0.08%

-- Flow 1:

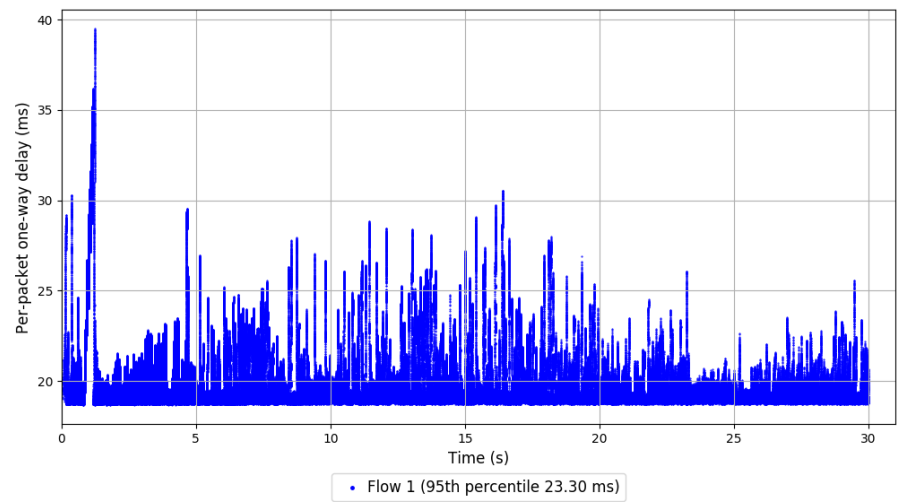
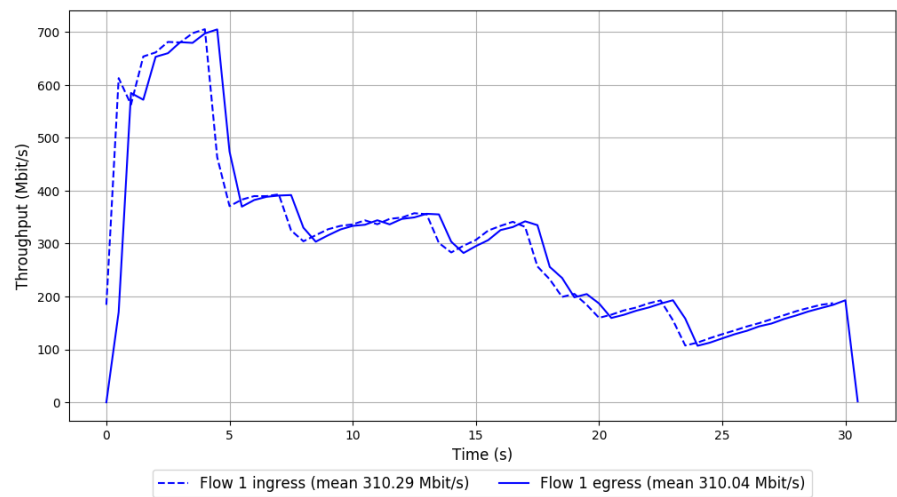
Average throughput: 310.04 Mbit/s

95th percentile per-packet one-way delay: 23.303 ms

Loss rate: 0.08%



Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-05-21 23:55:16

End at: 2018-05-21 23:55:46

Local clock offset: -0.352 ms

Remote clock offset: 0.034 ms

# Below is generated by plot.py at 2018-05-22 02:08:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 325.07 Mbit/s

95th percentile per-packet one-way delay: 22.646 ms

Loss rate: 0.06%

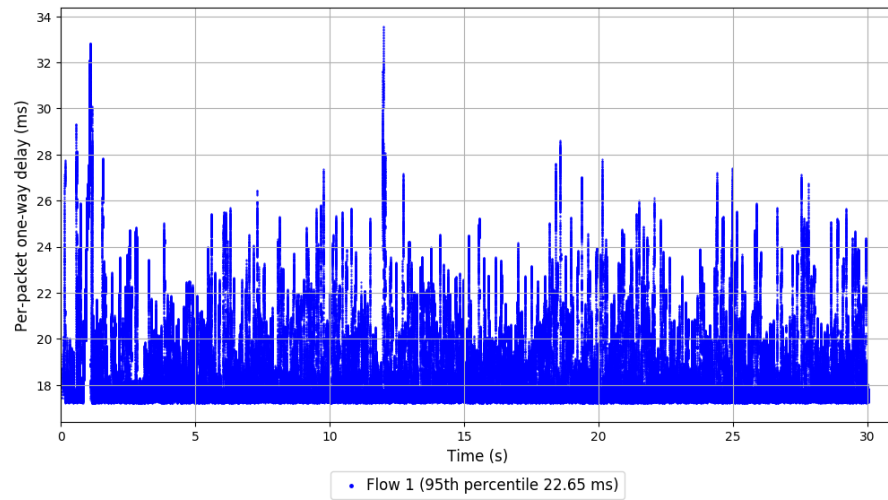
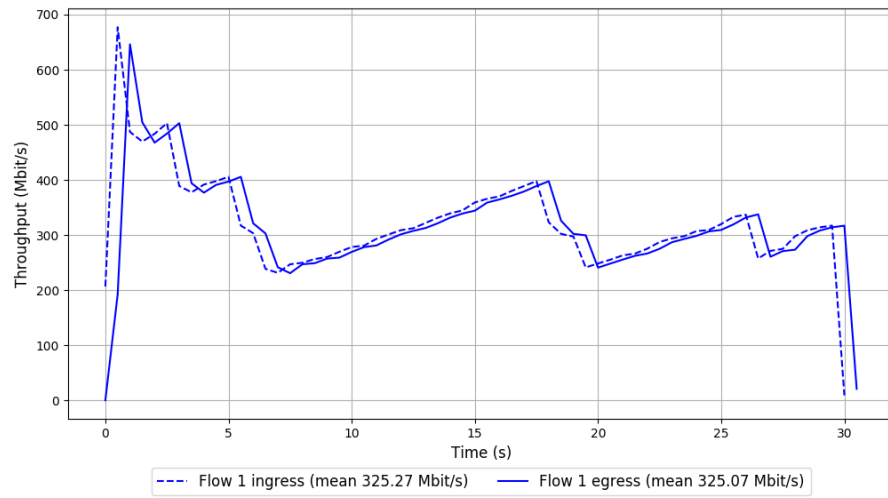
-- Flow 1:

Average throughput: 325.07 Mbit/s

95th percentile per-packet one-way delay: 22.646 ms

Loss rate: 0.06%

## Run 6: Report of TCP Cubic — Data Link

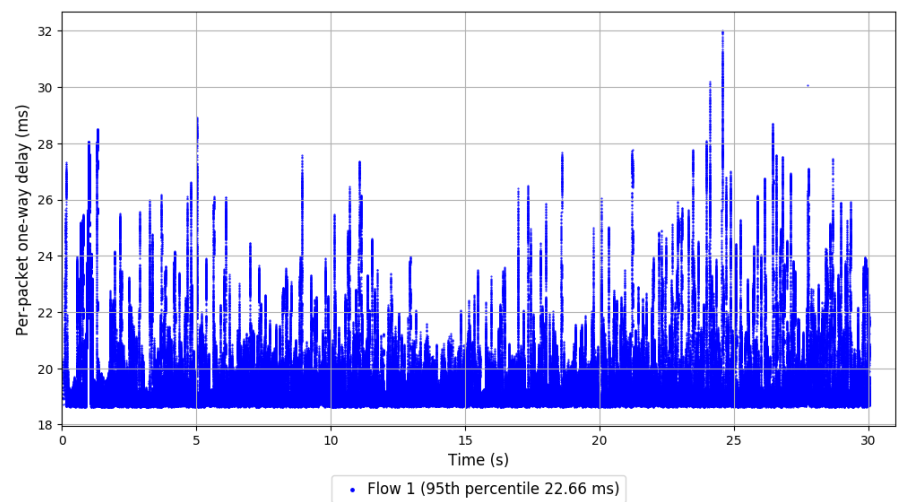
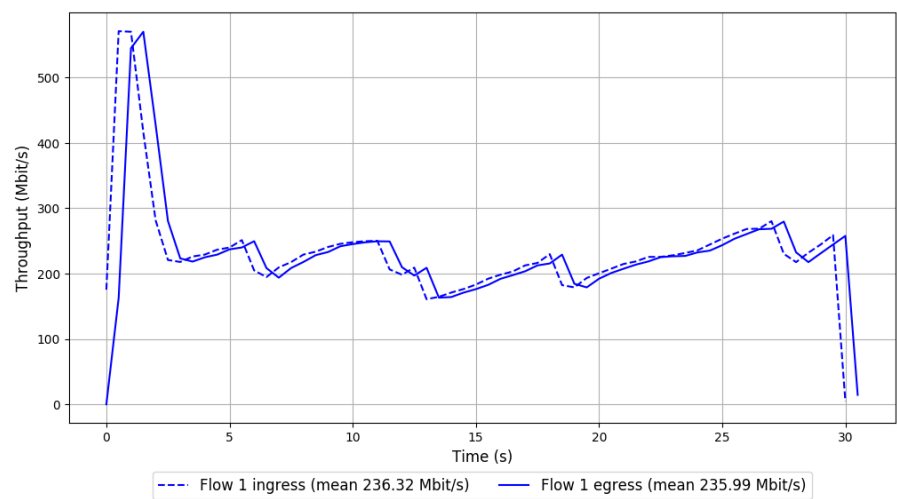


Run 7: Statistics of TCP Cubic

Start at: 2018-05-22 00:19:07  
End at: 2018-05-22 00:19:37  
Local clock offset: 0.217 ms  
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2018-05-22 02:08:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 235.99 Mbit/s  
95th percentile per-packet one-way delay: 22.656 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 235.99 Mbit/s  
95th percentile per-packet one-way delay: 22.656 ms  
Loss rate: 0.14%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-05-22 00:42:52

End at: 2018-05-22 00:43:22

Local clock offset: 0.226 ms

Remote clock offset: 0.035 ms

# Below is generated by plot.py at 2018-05-22 02:09:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 227.45 Mbit/s

95th percentile per-packet one-way delay: 23.403 ms

Loss rate: 0.06%

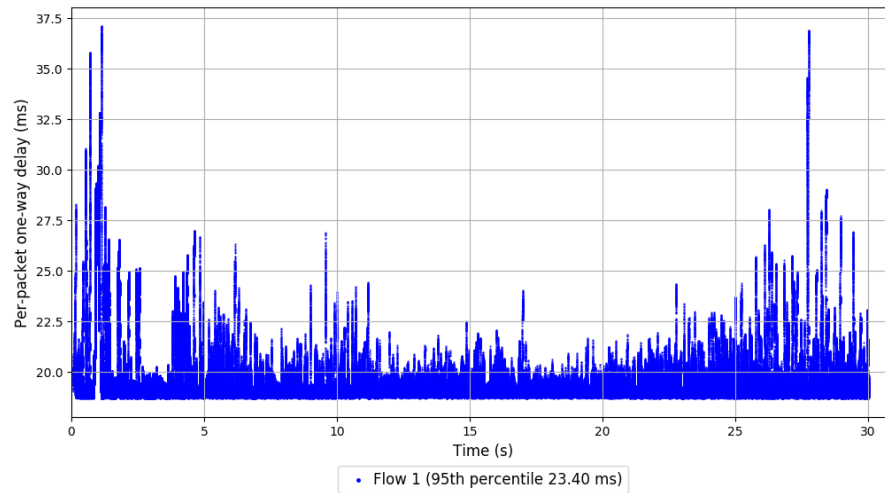
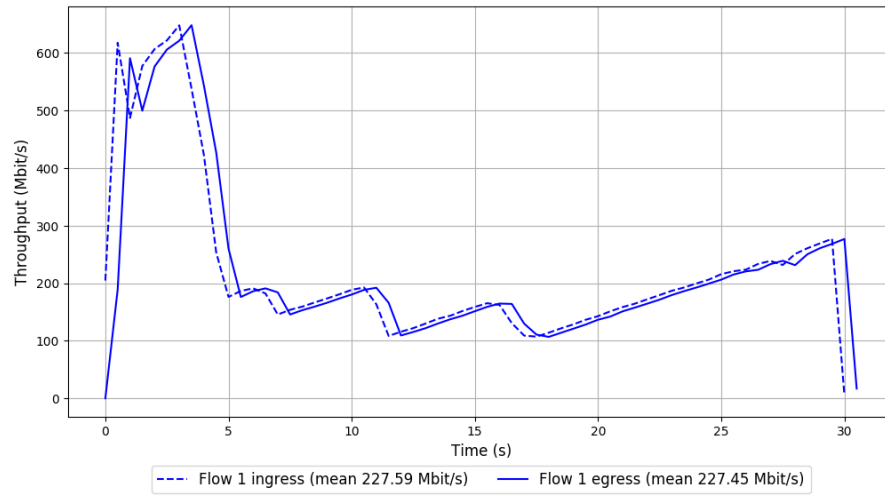
-- Flow 1:

Average throughput: 227.45 Mbit/s

95th percentile per-packet one-way delay: 23.403 ms

Loss rate: 0.06%

## Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-05-22 01:06:30

End at: 2018-05-22 01:07:00

Local clock offset: 0.039 ms

Remote clock offset: 0.045 ms

# Below is generated by plot.py at 2018-05-22 02:09:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 167.23 Mbit/s

95th percentile per-packet one-way delay: 21.781 ms

Loss rate: 0.02%

-- Flow 1:

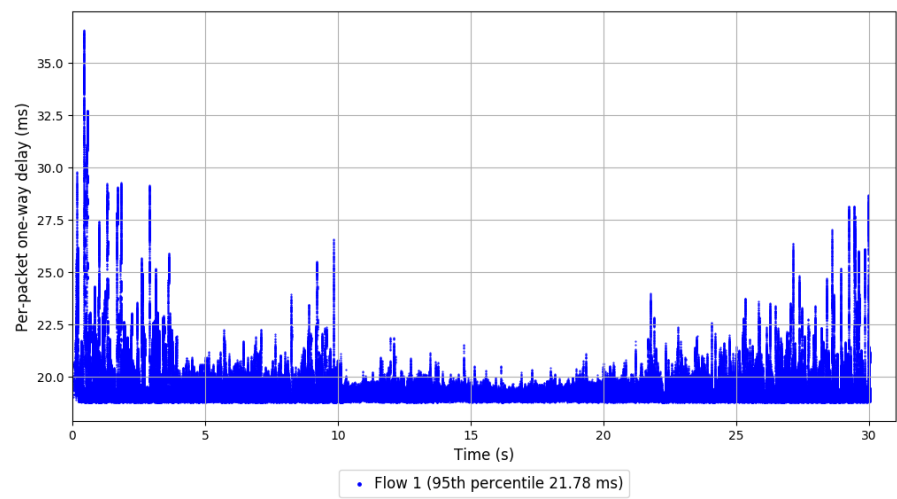
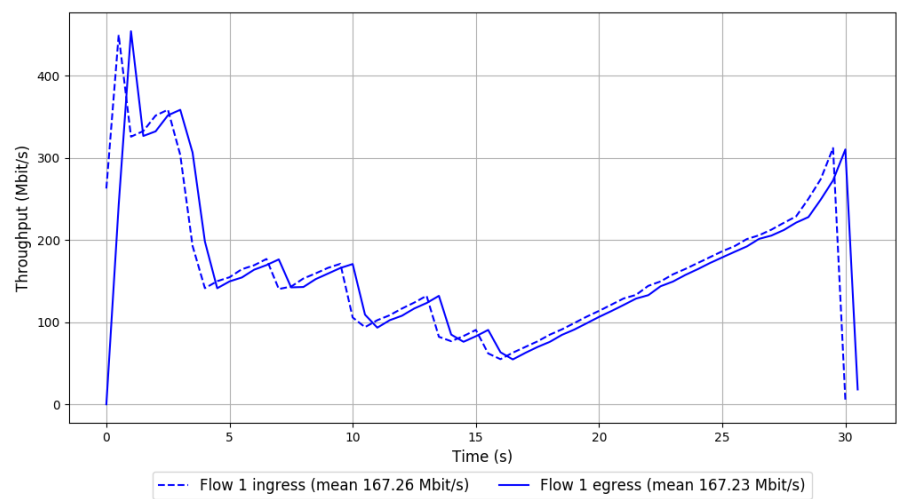
Average throughput: 167.23 Mbit/s

95th percentile per-packet one-way delay: 21.781 ms

Loss rate: 0.02%



Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-05-22 01:30:06

End at: 2018-05-22 01:30:36

Local clock offset: 0.076 ms

Remote clock offset: 0.209 ms

# Below is generated by plot.py at 2018-05-22 02:09:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 156.91 Mbit/s

95th percentile per-packet one-way delay: 21.224 ms

Loss rate: 0.01%

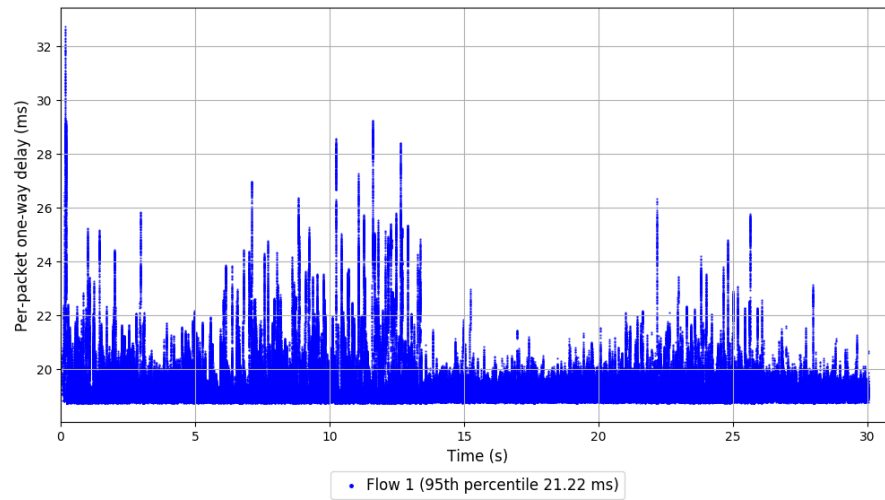
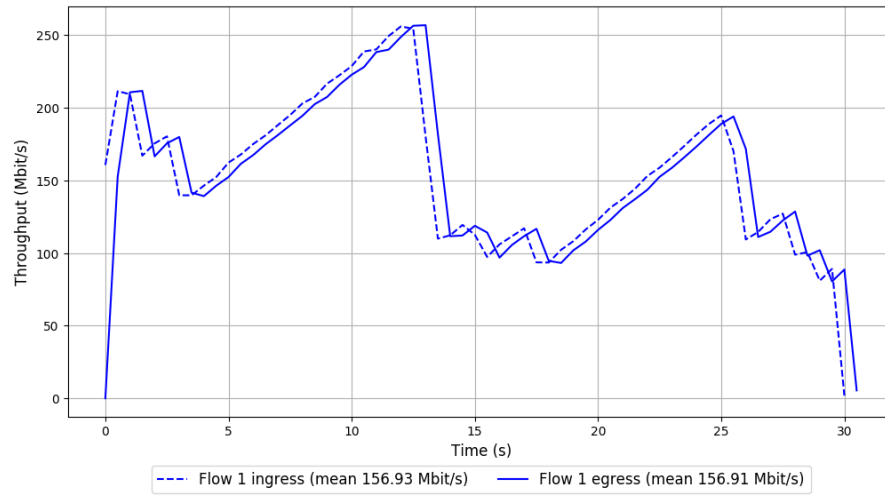
-- Flow 1:

Average throughput: 156.91 Mbit/s

95th percentile per-packet one-way delay: 21.224 ms

Loss rate: 0.01%

### Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-05-21 22:03:14

End at: 2018-05-21 22:03:44

Local clock offset: -1.48 ms

Remote clock offset: 2.066 ms

# Below is generated by plot.py at 2018-05-22 02:20:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 884.25 Mbit/s

95th percentile per-packet one-way delay: 67.624 ms

Loss rate: 2.85%

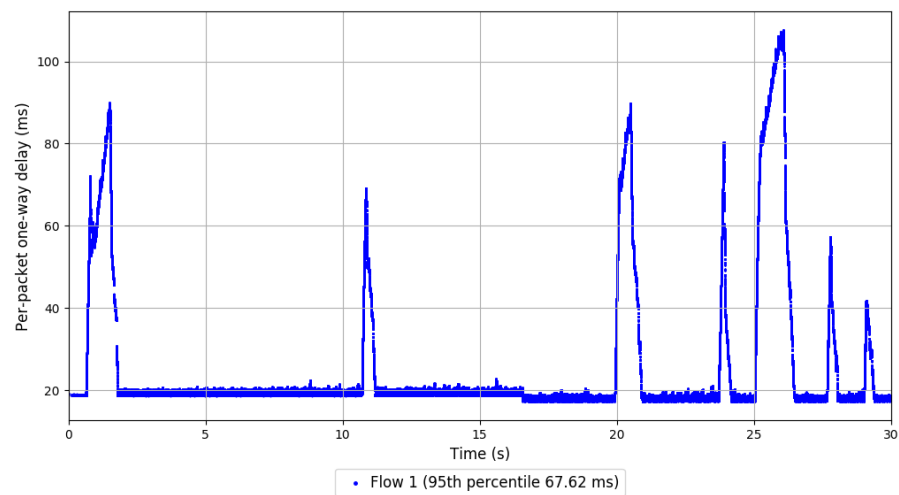
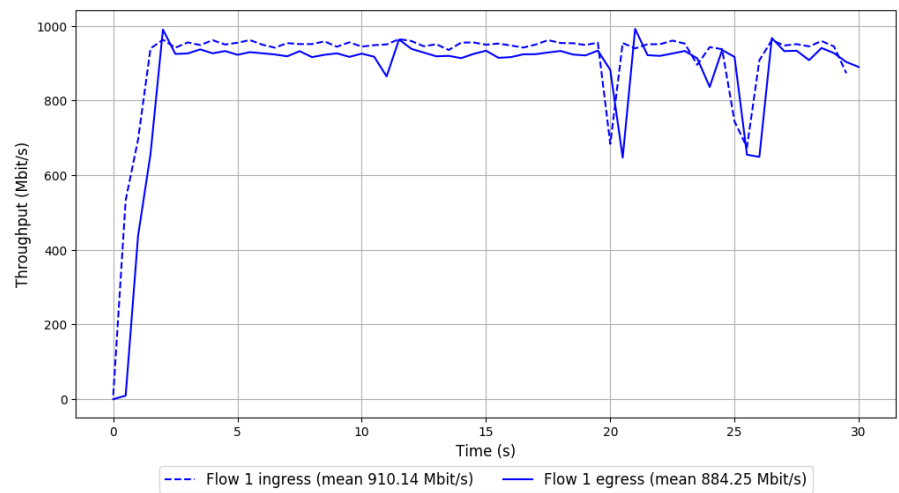
-- Flow 1:

Average throughput: 884.25 Mbit/s

95th percentile per-packet one-way delay: 67.624 ms

Loss rate: 2.85%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-05-21 22:27:14

End at: 2018-05-21 22:27:44

Local clock offset: -1.183 ms

Remote clock offset: 1.299 ms

# Below is generated by plot.py at 2018-05-22 02:20:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 789.59 Mbit/s

95th percentile per-packet one-way delay: 103.504 ms

Loss rate: 3.88%

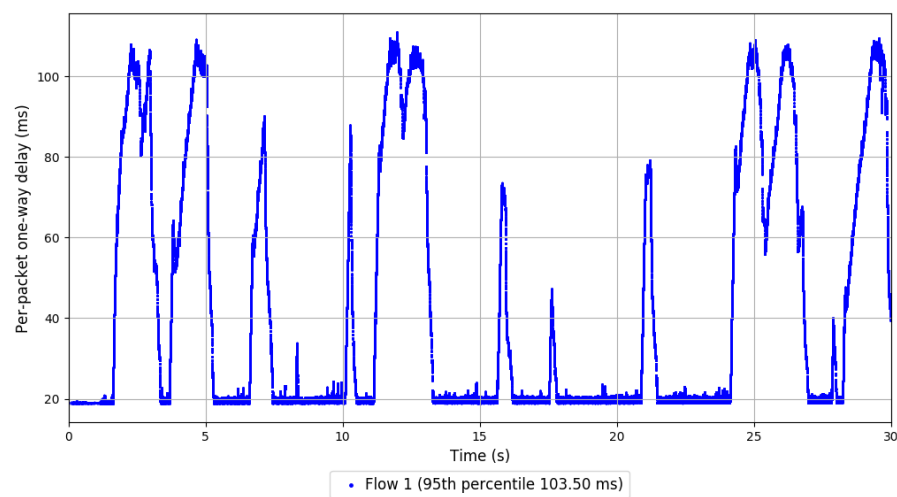
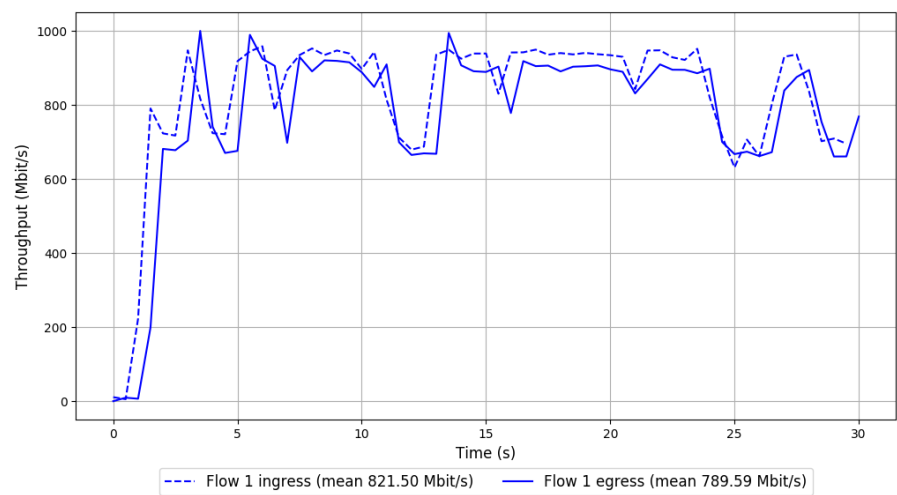
-- Flow 1:

Average throughput: 789.59 Mbit/s

95th percentile per-packet one-way delay: 103.504 ms

Loss rate: 3.88%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-05-21 22:51:04

End at: 2018-05-21 22:51:34

Local clock offset: 1.878 ms

Remote clock offset: 1.46 ms

# Below is generated by plot.py at 2018-05-22 02:21:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 805.31 Mbit/s

95th percentile per-packet one-way delay: 106.688 ms

Loss rate: 6.05%

-- Flow 1:

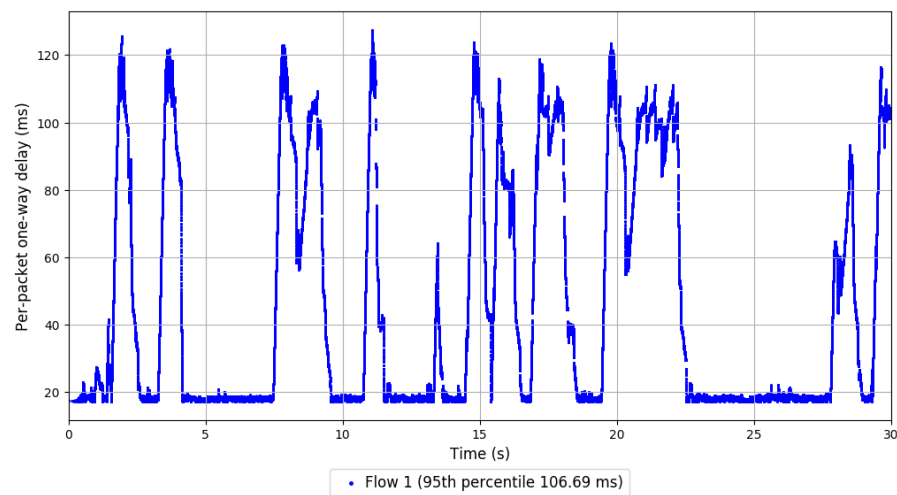
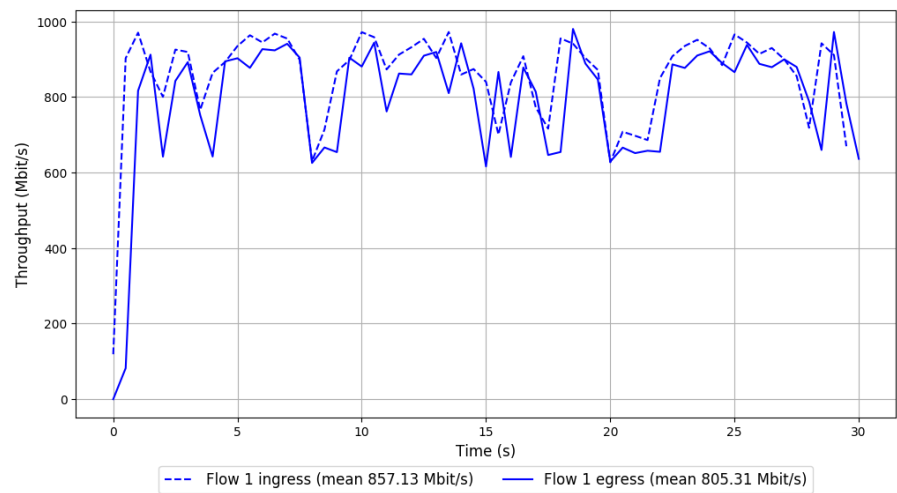
Average throughput: 805.31 Mbit/s

95th percentile per-packet one-way delay: 106.688 ms

Loss rate: 6.05%



Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-05-21 23:15:05

End at: 2018-05-21 23:15:35

Local clock offset: -0.222 ms

Remote clock offset: 0.344 ms

# Below is generated by plot.py at 2018-05-22 02:21:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 747.57 Mbit/s

95th percentile per-packet one-way delay: 105.578 ms

Loss rate: 3.68%

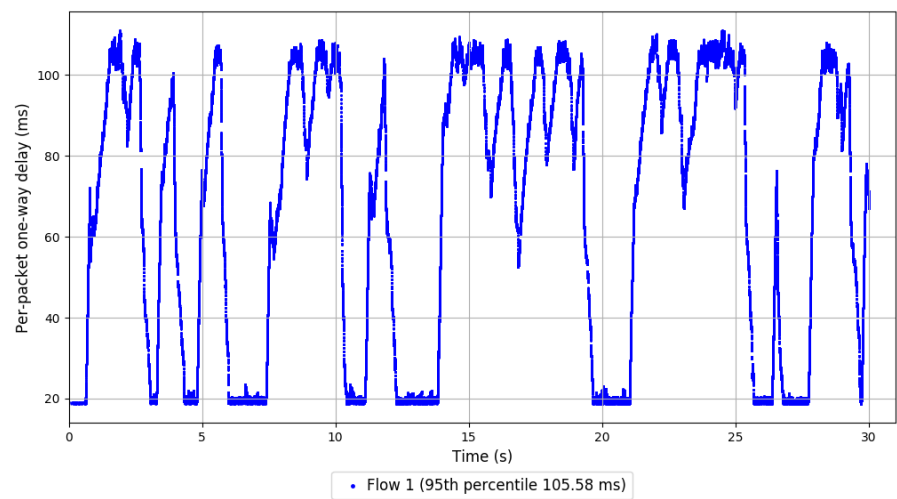
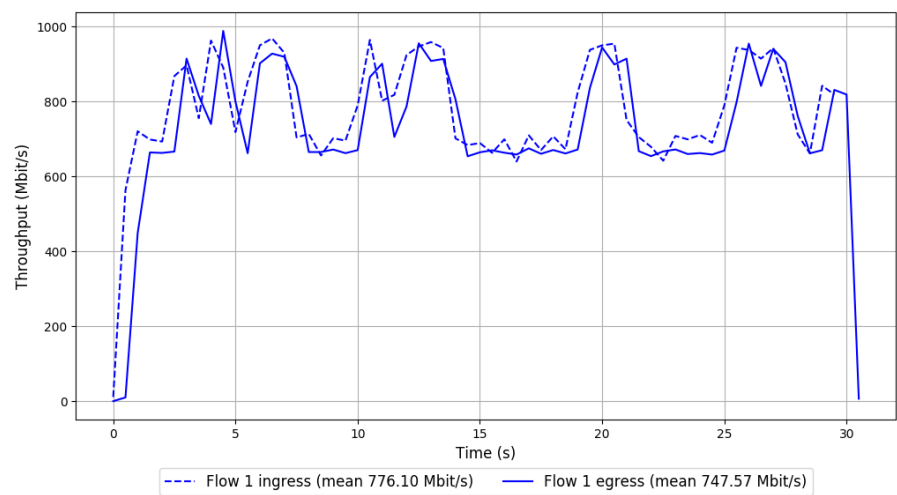
-- Flow 1:

Average throughput: 747.57 Mbit/s

95th percentile per-packet one-way delay: 105.578 ms

Loss rate: 3.68%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-05-21 23:38:54

End at: 2018-05-21 23:39:24

Local clock offset: -0.351 ms

Remote clock offset: 0.06 ms

# Below is generated by plot.py at 2018-05-22 02:21:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 761.02 Mbit/s

95th percentile per-packet one-way delay: 105.507 ms

Loss rate: 3.95%

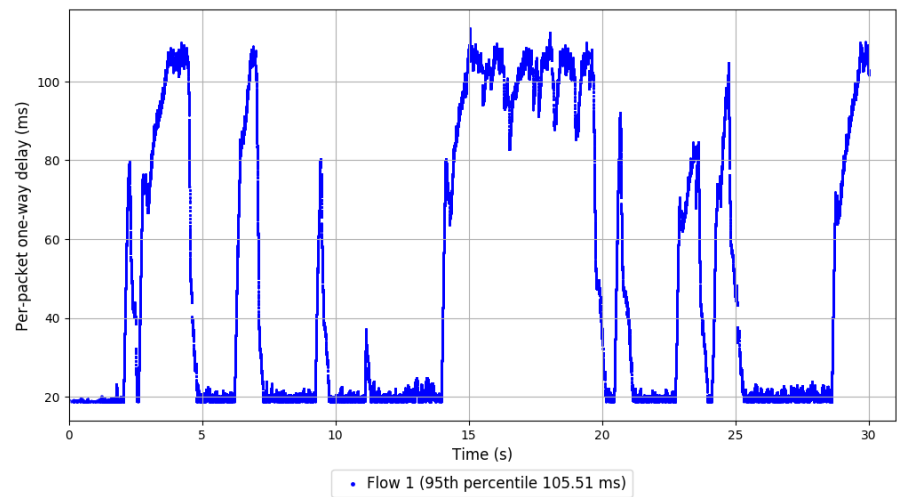
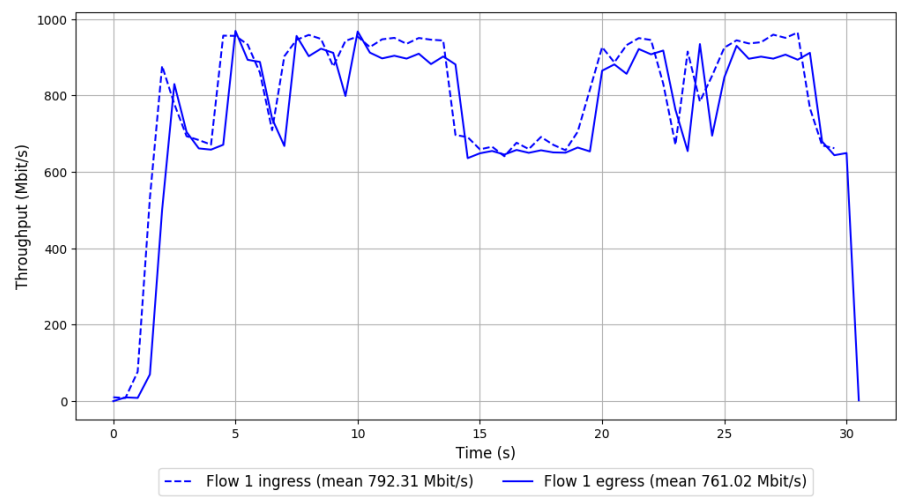
-- Flow 1:

Average throughput: 761.02 Mbit/s

95th percentile per-packet one-way delay: 105.507 ms

Loss rate: 3.95%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-05-22 00:02:58

End at: 2018-05-22 00:03:28

Local clock offset: -0.086 ms

Remote clock offset: 0.028 ms

# Below is generated by plot.py at 2018-05-22 02:21:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 723.66 Mbit/s

95th percentile per-packet one-way delay: 104.325 ms

Loss rate: 3.38%

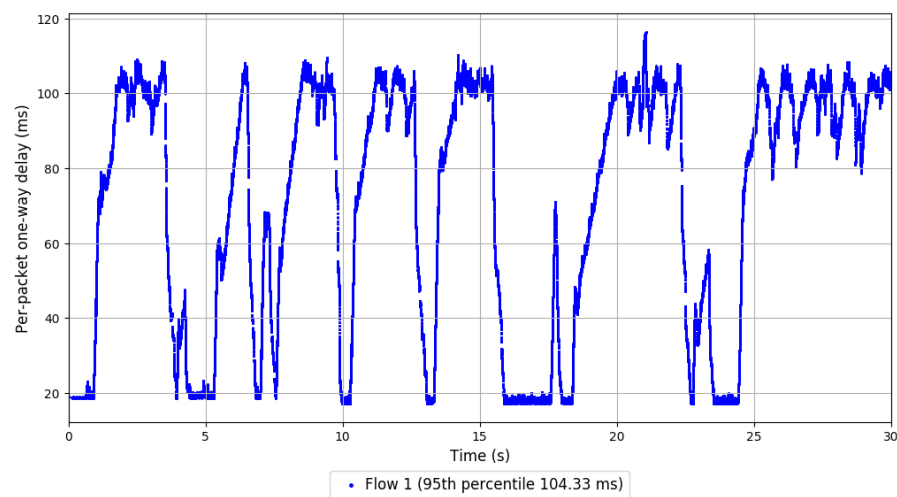
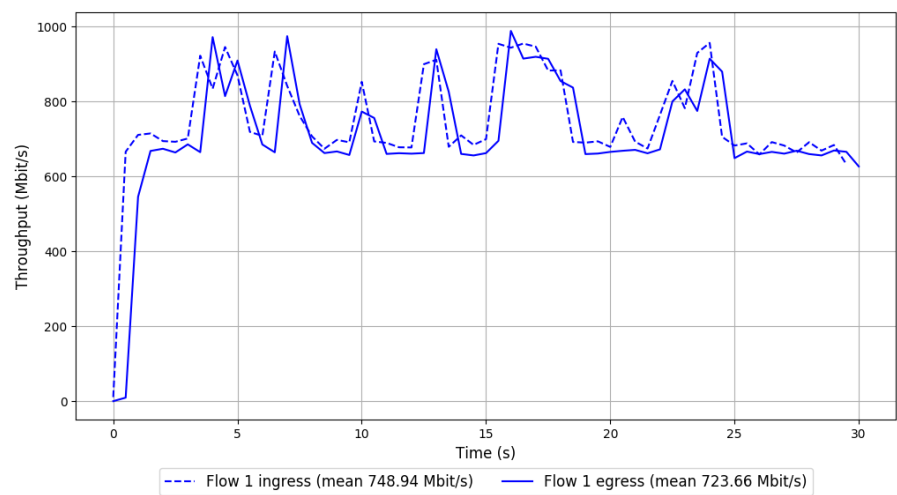
-- Flow 1:

Average throughput: 723.66 Mbit/s

95th percentile per-packet one-way delay: 104.325 ms

Loss rate: 3.38%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-05-22 00:26:44

End at: 2018-05-22 00:27:14

Local clock offset: 0.138 ms

Remote clock offset: 0.024 ms

# Below is generated by plot.py at 2018-05-22 02:21:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 734.01 Mbit/s

95th percentile per-packet one-way delay: 105.489 ms

Loss rate: 3.69%

-- Flow 1:

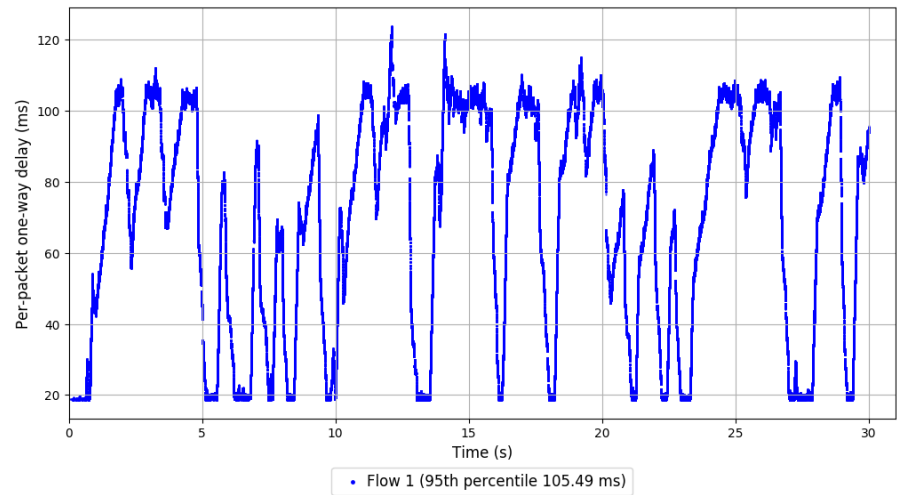
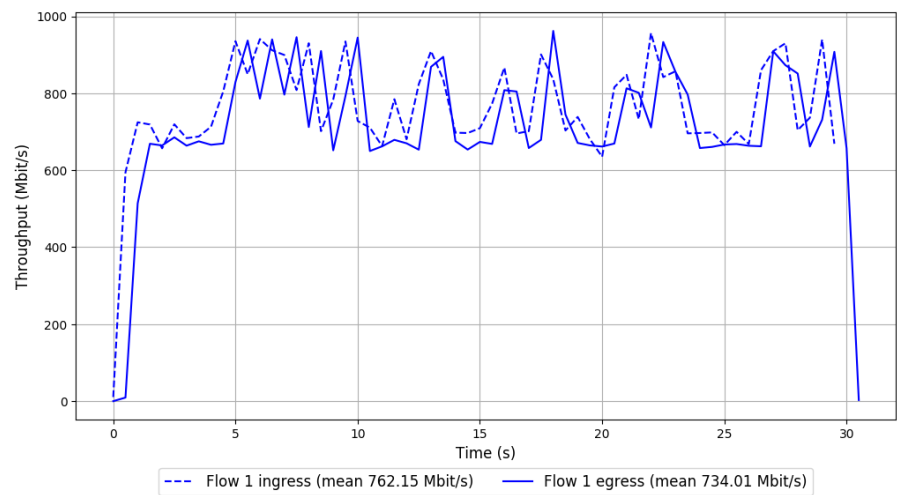
Average throughput: 734.01 Mbit/s

95th percentile per-packet one-way delay: 105.489 ms

Loss rate: 3.69%



Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-05-22 00:50:26

End at: 2018-05-22 00:50:56

Local clock offset: 0.096 ms

Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2018-05-22 02:21:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 767.42 Mbit/s

95th percentile per-packet one-way delay: 105.018 ms

Loss rate: 3.83%

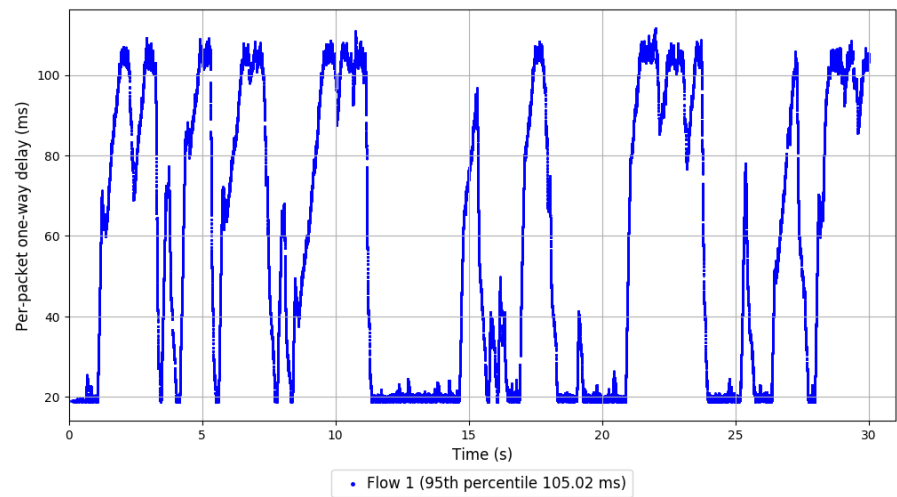
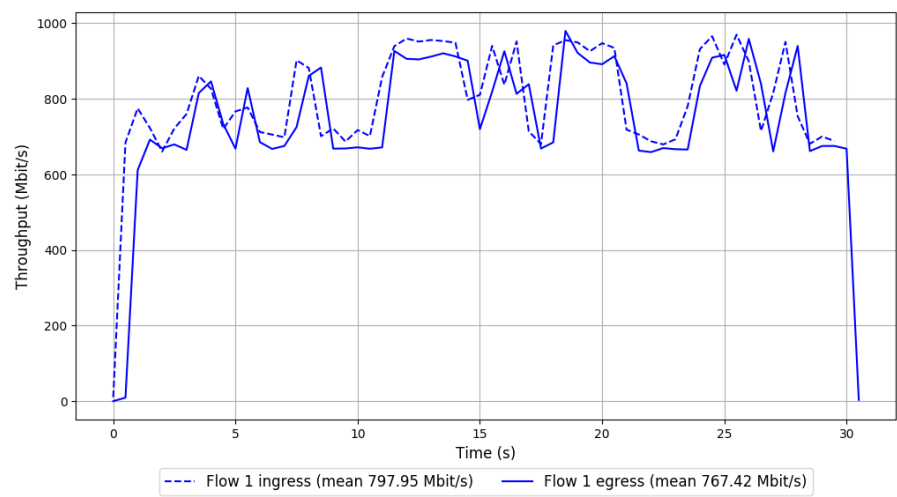
-- Flow 1:

Average throughput: 767.42 Mbit/s

95th percentile per-packet one-way delay: 105.018 ms

Loss rate: 3.83%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-05-22 01:14:05

End at: 2018-05-22 01:14:35

Local clock offset: 0.013 ms

Remote clock offset: 0.056 ms

# Below is generated by plot.py at 2018-05-22 02:31:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 716.73 Mbit/s

95th percentile per-packet one-way delay: 106.125 ms

Loss rate: 3.19%

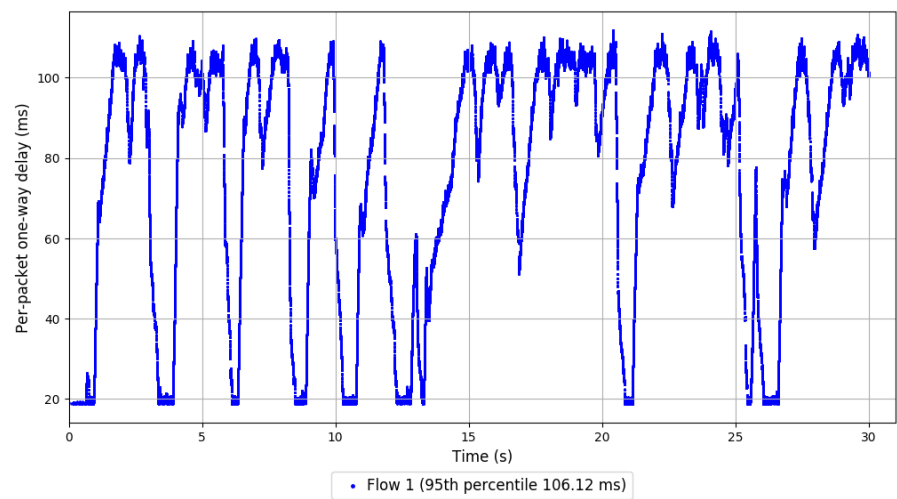
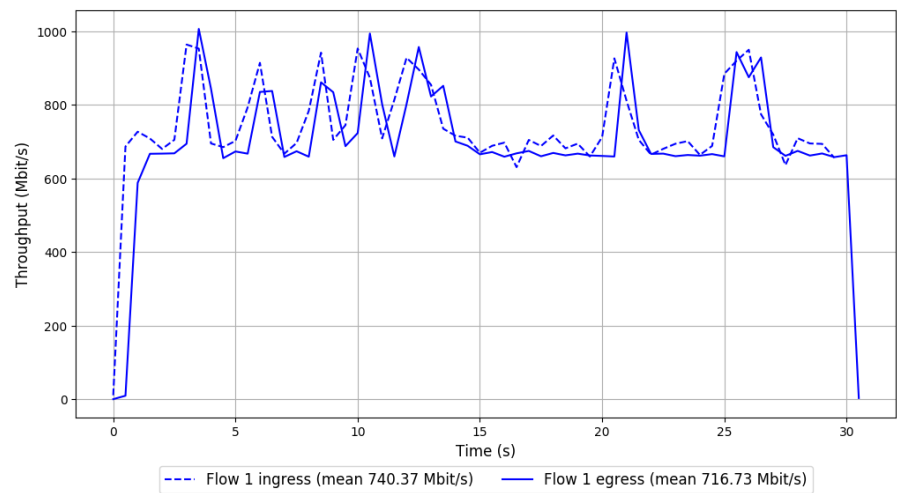
-- Flow 1:

Average throughput: 716.73 Mbit/s

95th percentile per-packet one-way delay: 106.125 ms

Loss rate: 3.19%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-05-22 01:37:39

End at: 2018-05-22 01:38:09

Local clock offset: 0.084 ms

Remote clock offset: 0.213 ms

# Below is generated by plot.py at 2018-05-22 02:31:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 693.19 Mbit/s

95th percentile per-packet one-way delay: 106.184 ms

Loss rate: 2.59%

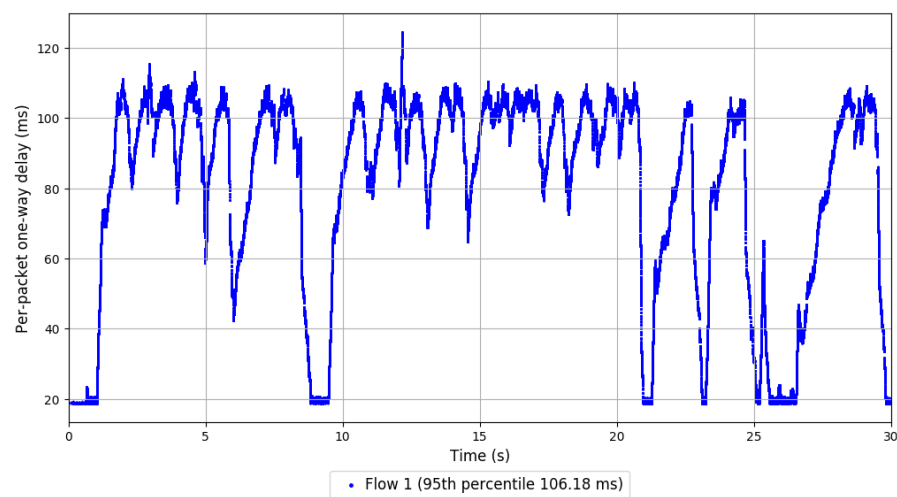
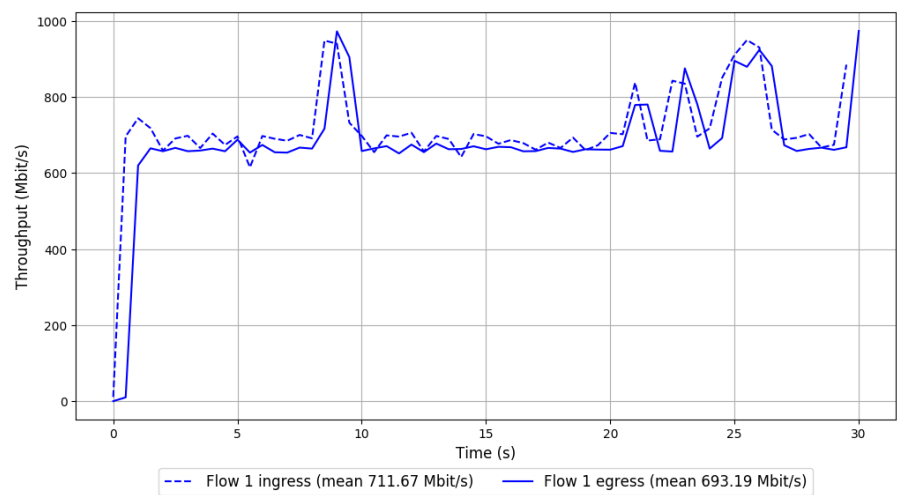
-- Flow 1:

Average throughput: 693.19 Mbit/s

95th percentile per-packet one-way delay: 106.184 ms

Loss rate: 2.59%

Run 10: Report of FillP — Data Link



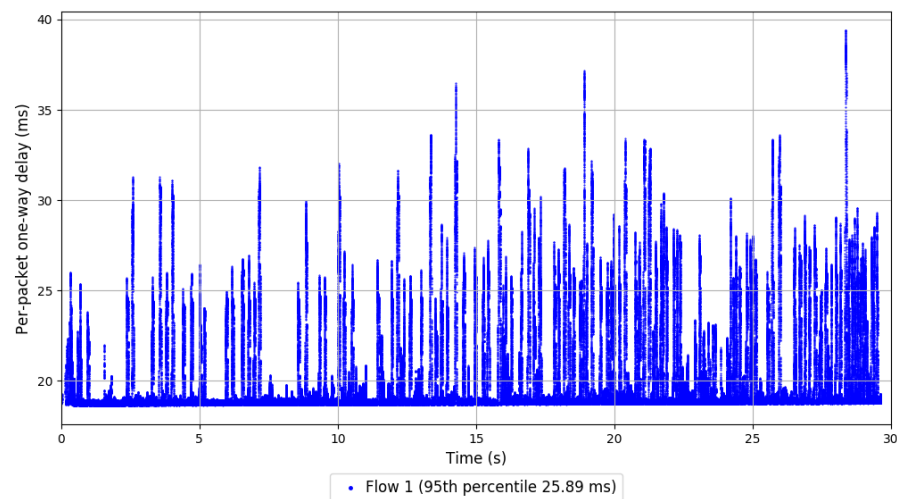
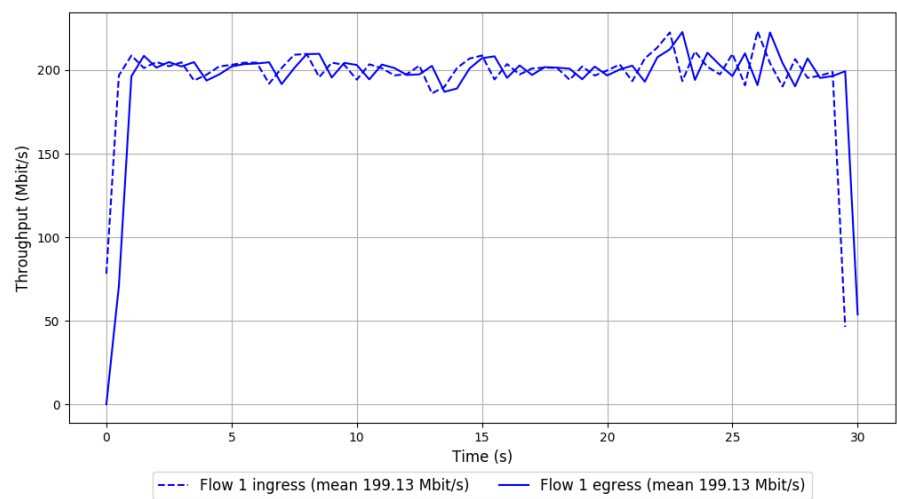
```
Run 1: Statistics of Indigo

Start at: 2018-05-21 21:46:46
End at: 2018-05-21 21:47:16
Local clock offset: -1.905 ms
Remote clock offset: 3.832 ms

# Below is generated by plot.py at 2018-05-22 02:31:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 199.13 Mbit/s
95th percentile per-packet one-way delay: 25.887 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 199.13 Mbit/s
95th percentile per-packet one-way delay: 25.887 ms
Loss rate: 0.01%
```



Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-05-21 22:10:50

End at: 2018-05-21 22:11:20

Local clock offset: -1.103 ms

Remote clock offset: 2.4 ms

# Below is generated by plot.py at 2018-05-22 02:31:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 197.78 Mbit/s

95th percentile per-packet one-way delay: 26.530 ms

Loss rate: 0.00%

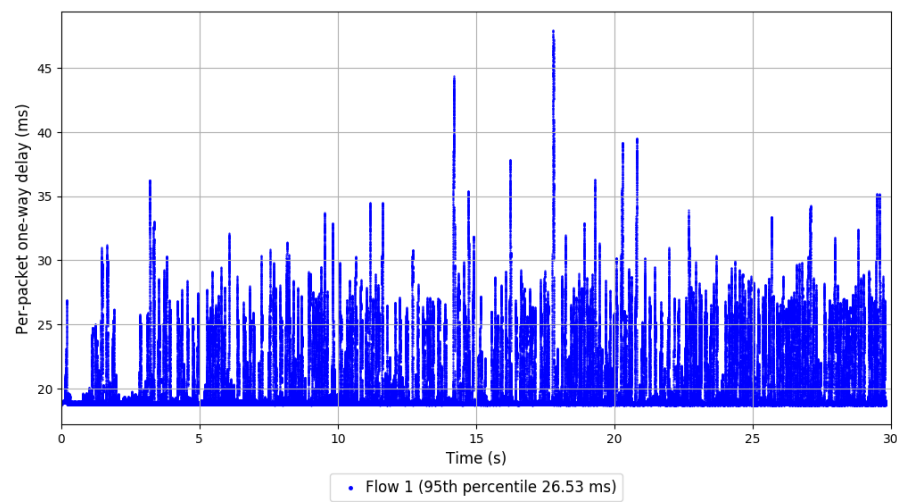
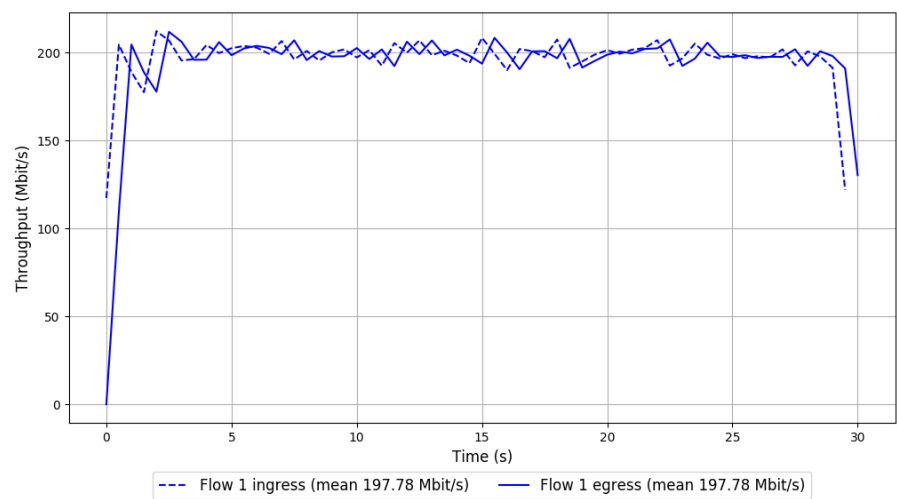
-- Flow 1:

Average throughput: 197.78 Mbit/s

95th percentile per-packet one-way delay: 26.530 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-05-21 22:34:39

End at: 2018-05-21 22:35:09

Local clock offset: 0.736 ms

Remote clock offset: 1.02 ms

# Below is generated by plot.py at 2018-05-22 02:31:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 203.06 Mbit/s

95th percentile per-packet one-way delay: 25.452 ms

Loss rate: 0.01%

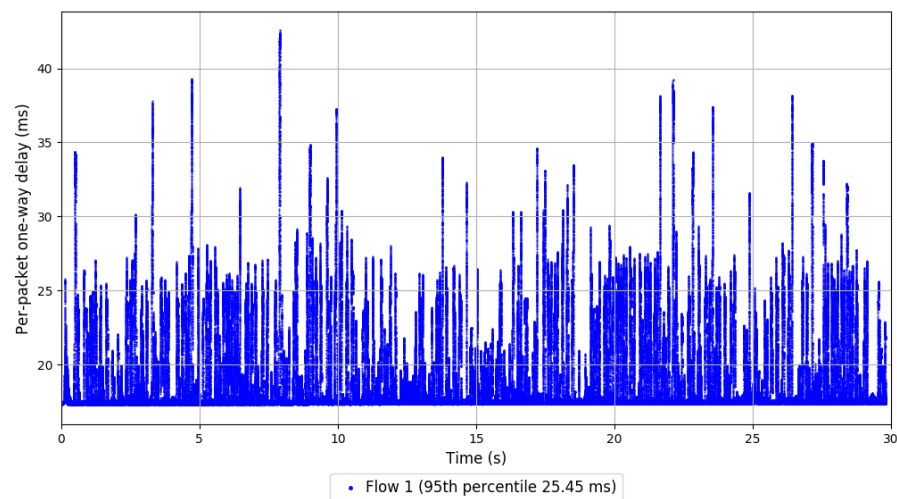
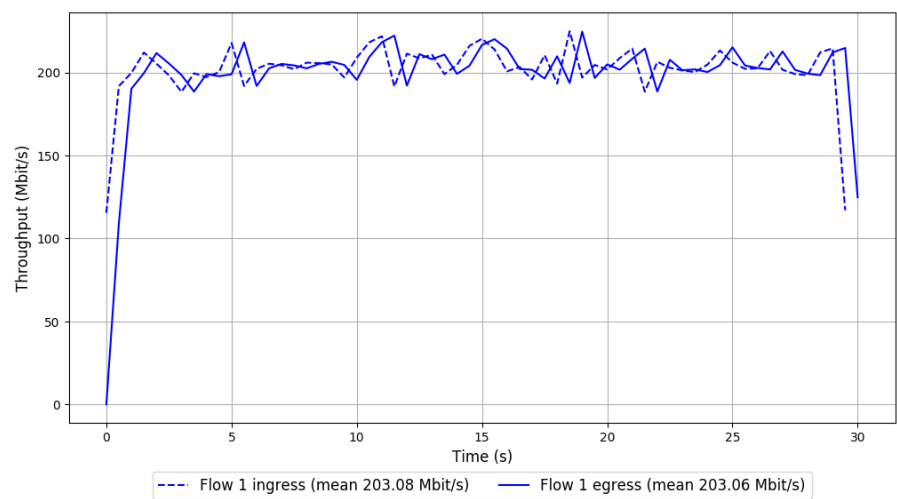
-- Flow 1:

Average throughput: 203.06 Mbit/s

95th percentile per-packet one-way delay: 25.452 ms

Loss rate: 0.01%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-05-21 22:58:37

End at: 2018-05-21 22:59:07

Local clock offset: 1.551 ms

Remote clock offset: 0.79 ms

# Below is generated by plot.py at 2018-05-22 02:31:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 199.26 Mbit/s

95th percentile per-packet one-way delay: 25.247 ms

Loss rate: 0.00%

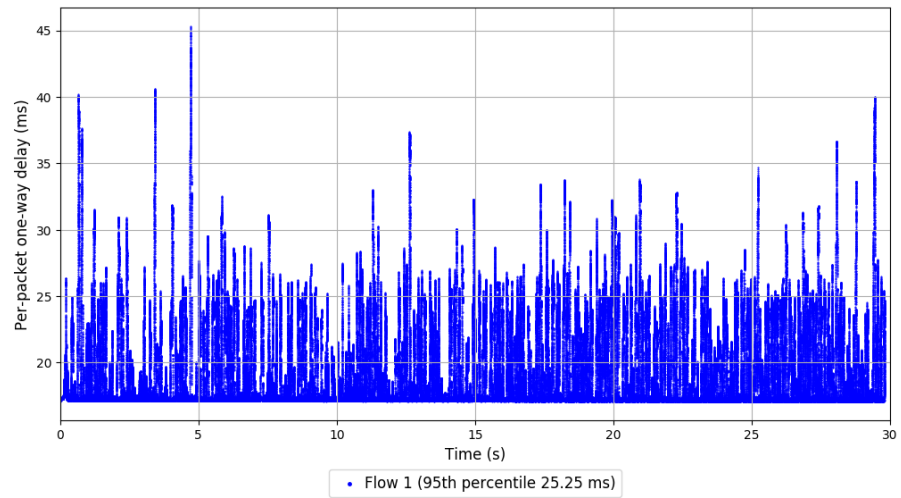
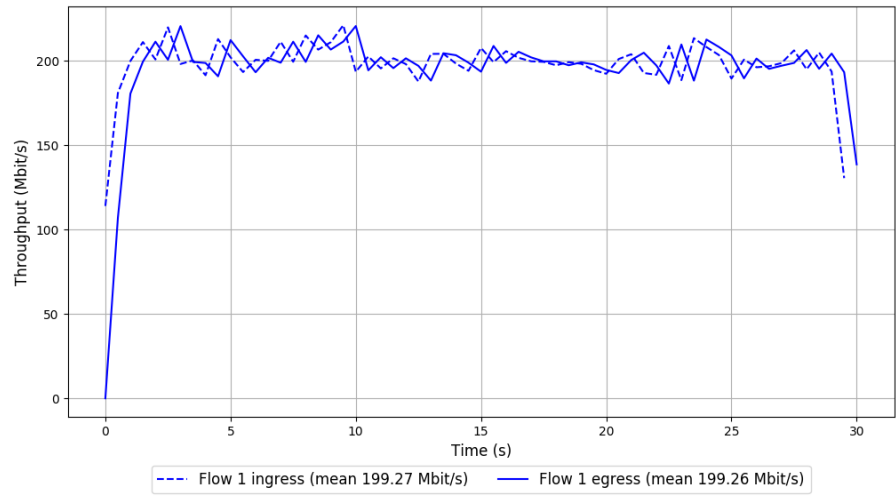
-- Flow 1:

Average throughput: 199.26 Mbit/s

95th percentile per-packet one-way delay: 25.247 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo

Start at: 2018-05-21 23:22:34

End at: 2018-05-21 23:23:04

Local clock offset: -0.669 ms

Remote clock offset: 0.37 ms

# Below is generated by plot.py at 2018-05-22 02:31:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 199.56 Mbit/s

95th percentile per-packet one-way delay: 26.147 ms

Loss rate: 0.00%

-- Flow 1:

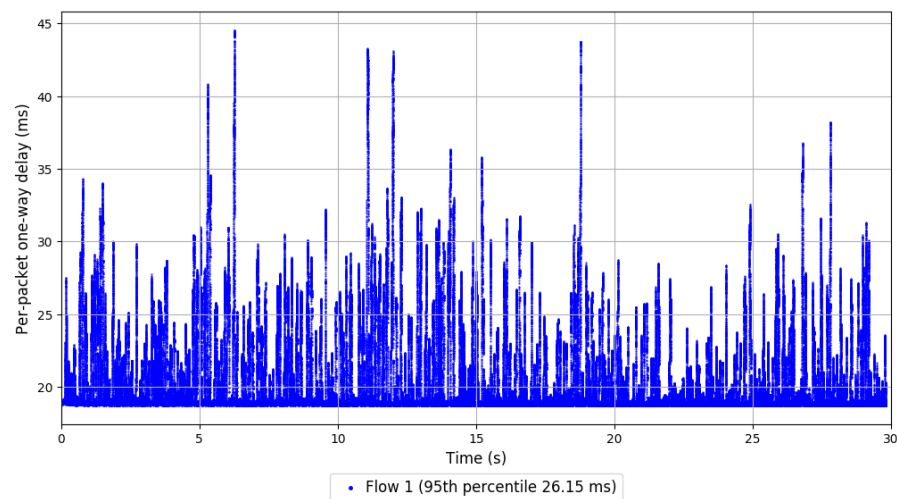
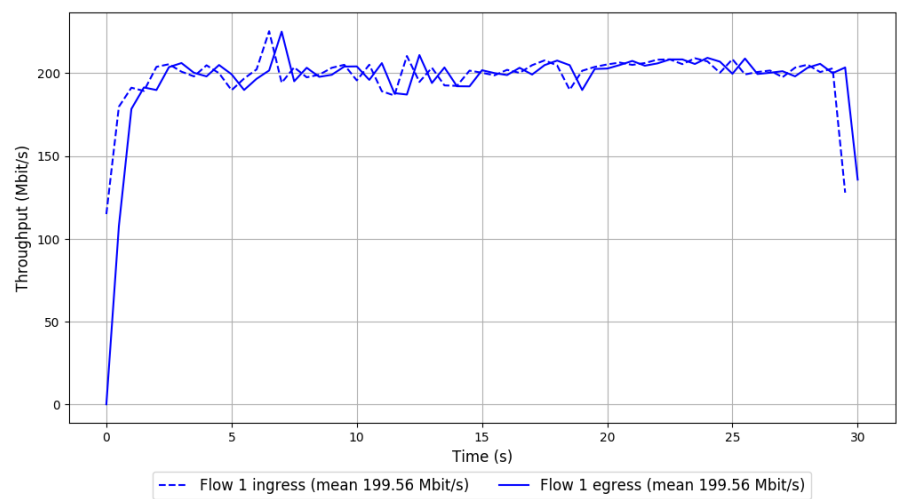
Average throughput: 199.56 Mbit/s

95th percentile per-packet one-way delay: 26.147 ms

Loss rate: 0.00%



Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-05-21 23:46:29

End at: 2018-05-21 23:46:59

Local clock offset: -0.355 ms

Remote clock offset: 0.049 ms

# Below is generated by plot.py at 2018-05-22 02:31:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 198.48 Mbit/s

95th percentile per-packet one-way delay: 26.667 ms

Loss rate: 0.02%

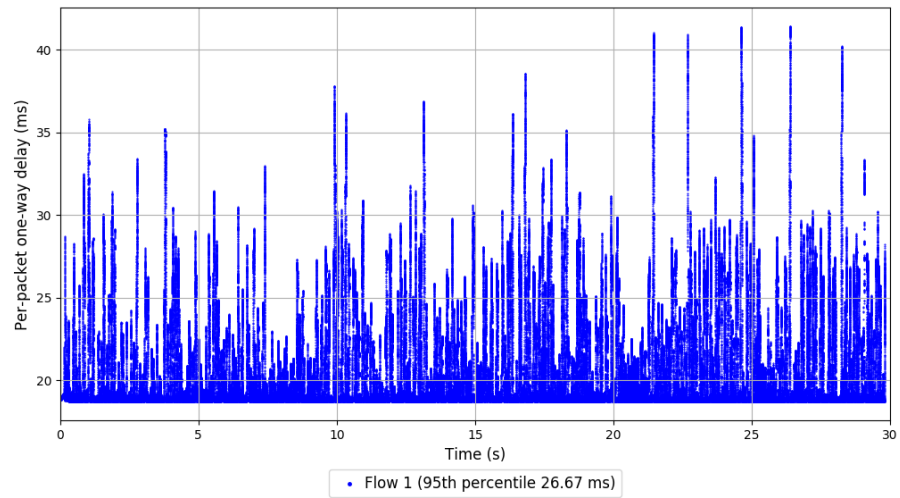
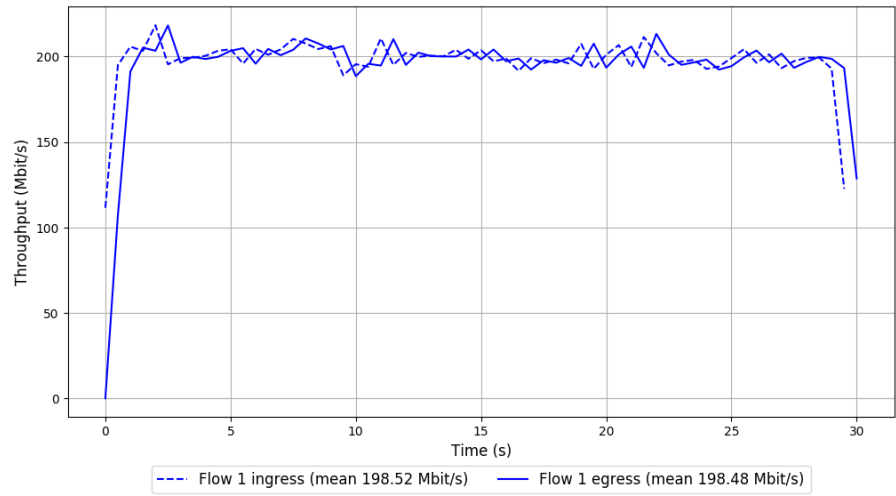
-- Flow 1:

Average throughput: 198.48 Mbit/s

95th percentile per-packet one-way delay: 26.667 ms

Loss rate: 0.02%

## Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-05-22 00:10:23

End at: 2018-05-22 00:10:53

Local clock offset: 0.089 ms

Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2018-05-22 02:31:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 195.30 Mbit/s

95th percentile per-packet one-way delay: 27.994 ms

Loss rate: 0.03%

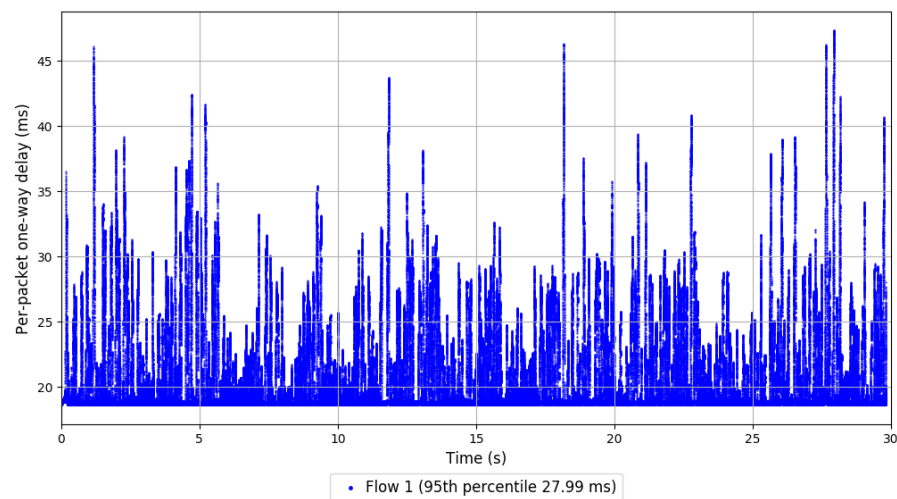
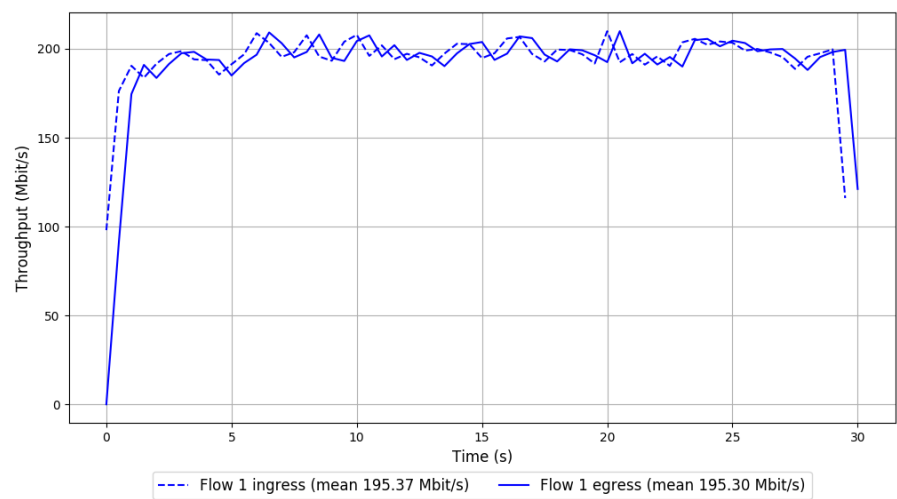
-- Flow 1:

Average throughput: 195.30 Mbit/s

95th percentile per-packet one-way delay: 27.994 ms

Loss rate: 0.03%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-05-22 00:34:12

End at: 2018-05-22 00:34:42

Local clock offset: 0.164 ms

Remote clock offset: 0.027 ms

# Below is generated by plot.py at 2018-05-22 02:31:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 102.77 Mbit/s

95th percentile per-packet one-way delay: 21.143 ms

Loss rate: 0.02%

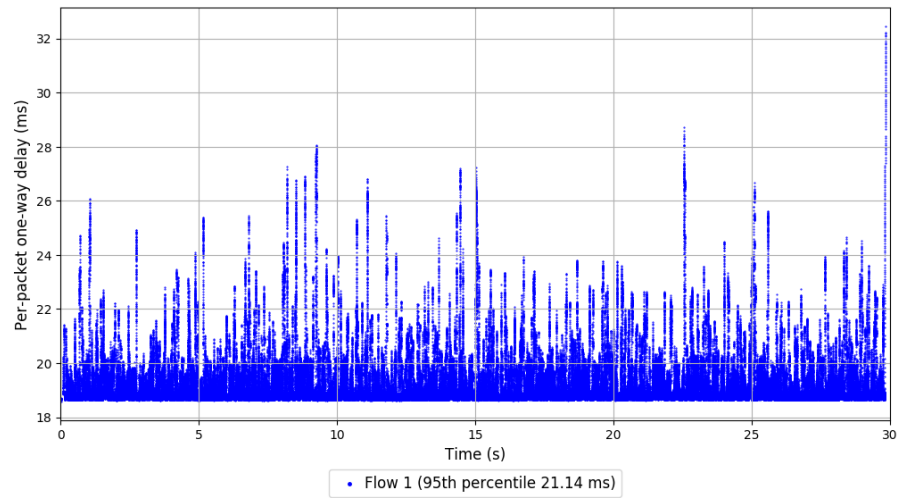
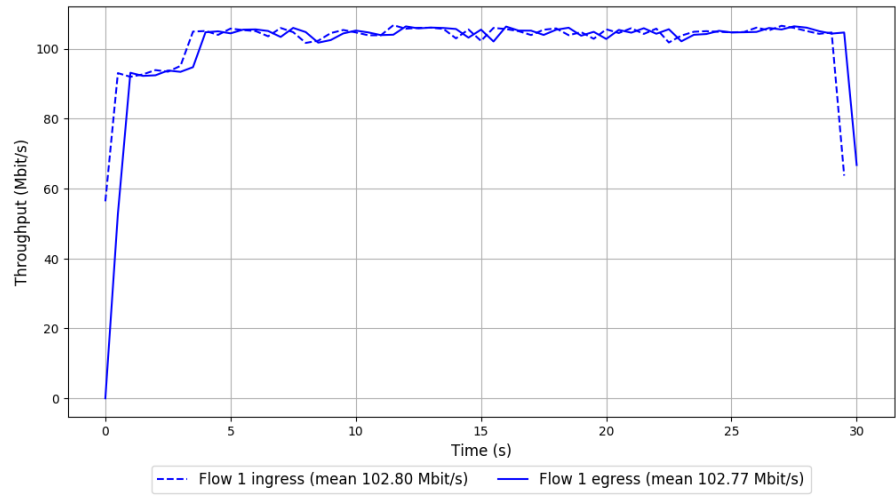
-- Flow 1:

Average throughput: 102.77 Mbit/s

95th percentile per-packet one-way delay: 21.143 ms

Loss rate: 0.02%

## Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-05-22 00:57:51

End at: 2018-05-22 00:58:21

Local clock offset: 0.045 ms

Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2018-05-22 02:31:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 121.29 Mbit/s

95th percentile per-packet one-way delay: 21.811 ms

Loss rate: 0.00%

-- Flow 1:

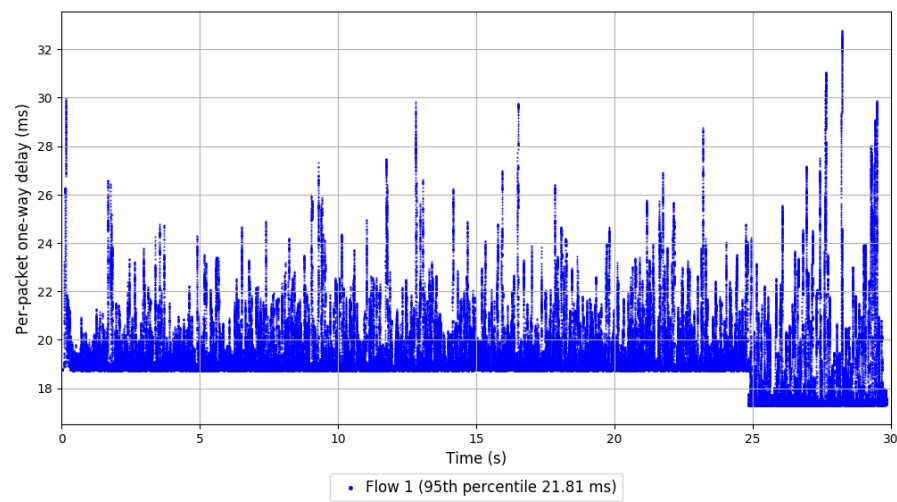
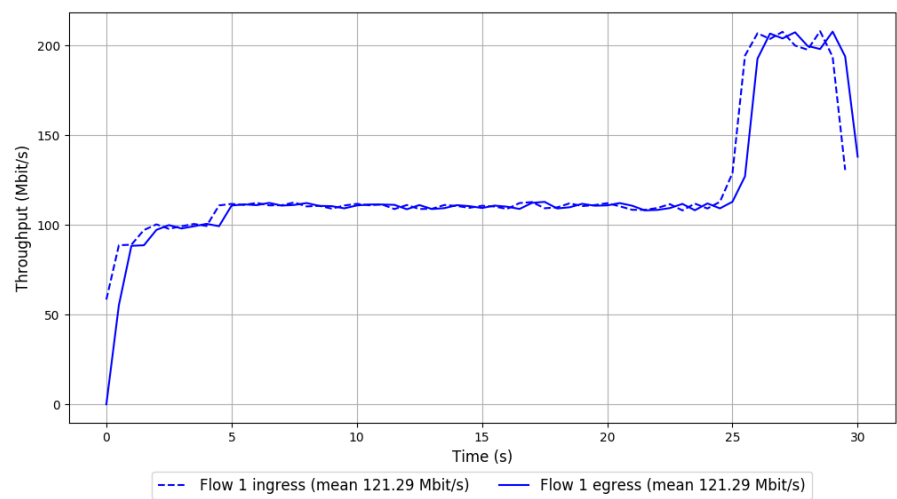
Average throughput: 121.29 Mbit/s

95th percentile per-packet one-way delay: 21.811 ms

Loss rate: 0.00%



Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-05-22 01:21:25

End at: 2018-05-22 01:21:55

Local clock offset: -0.041 ms

Remote clock offset: 0.105 ms

# Below is generated by plot.py at 2018-05-22 02:31:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 105.72 Mbit/s

95th percentile per-packet one-way delay: 19.971 ms

Loss rate: 0.00%

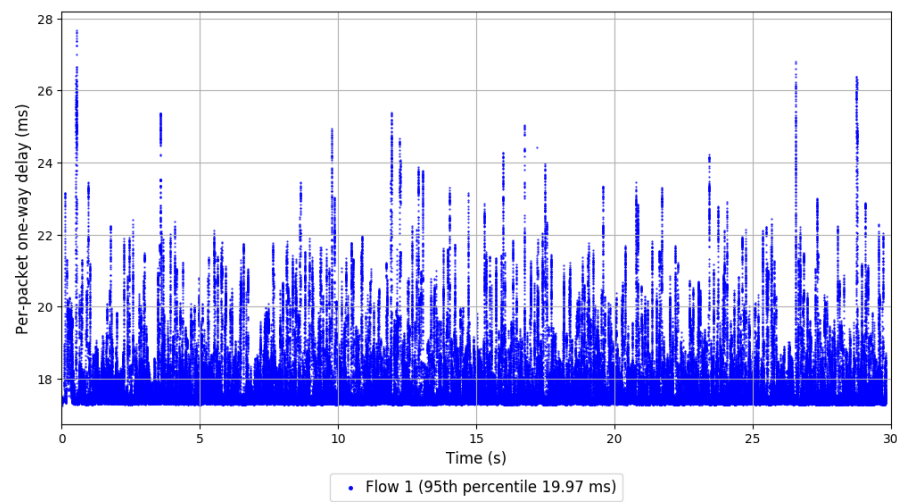
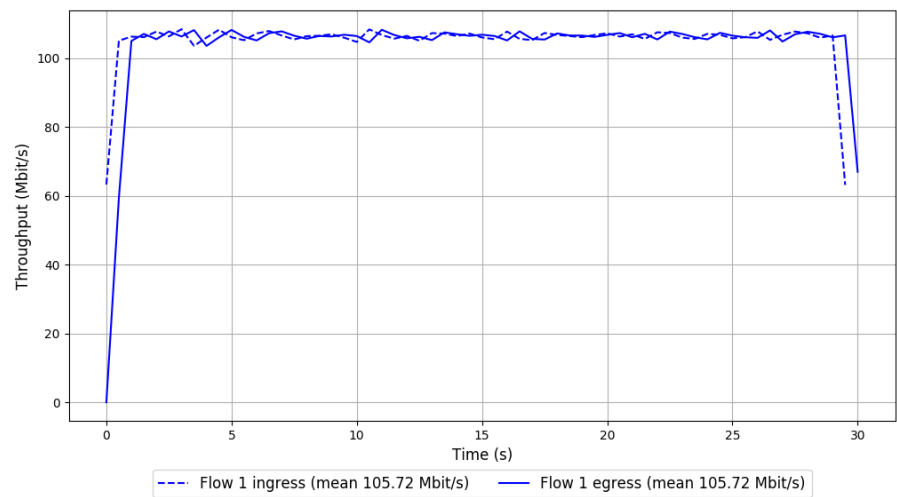
-- Flow 1:

Average throughput: 105.72 Mbit/s

95th percentile per-packet one-way delay: 19.971 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

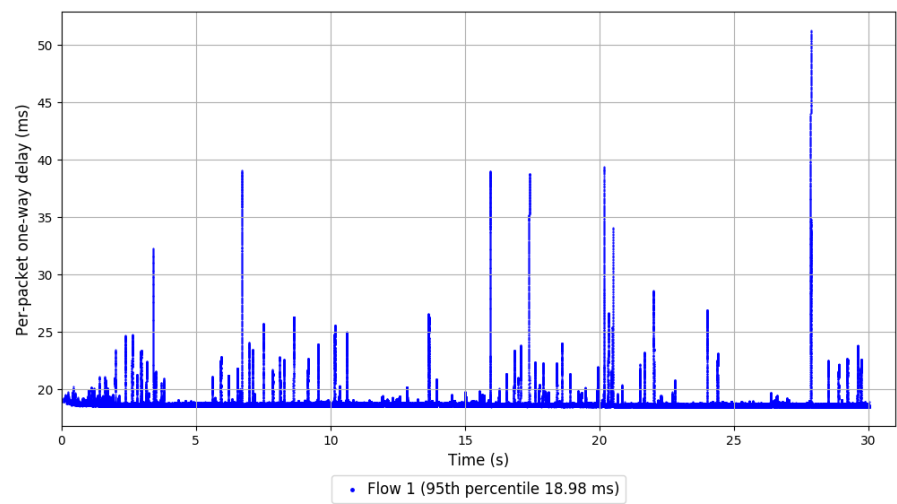
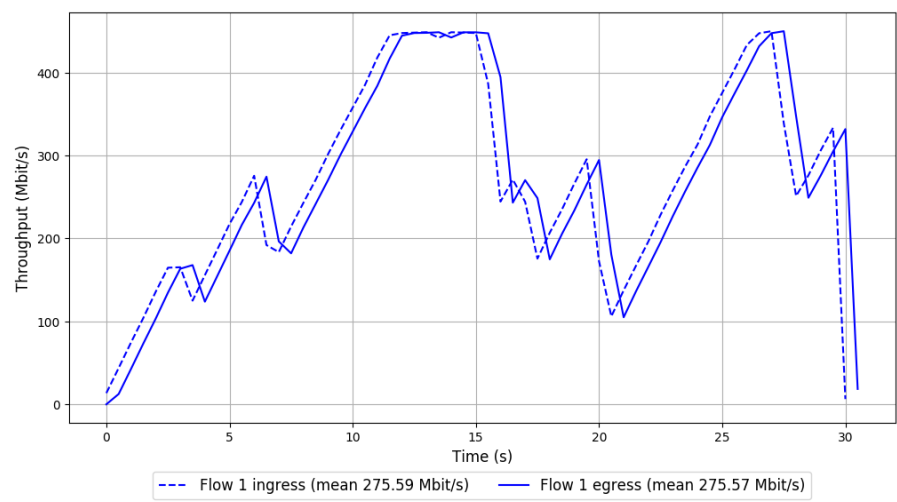


```
Run 1: Statistics of LEDBAT

Start at: 2018-05-21 21:42:17
End at: 2018-05-21 21:42:47
Local clock offset: -1.553 ms
Remote clock offset: 4.897 ms

# Below is generated by plot.py at 2018-05-22 02:31:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 275.57 Mbit/s
95th percentile per-packet one-way delay: 18.978 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 275.57 Mbit/s
95th percentile per-packet one-way delay: 18.978 ms
Loss rate: 0.01%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-05-21 22:06:14

End at: 2018-05-21 22:06:44

Local clock offset: -1.194 ms

Remote clock offset: 2.142 ms

# Below is generated by plot.py at 2018-05-22 02:31:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 384.34 Mbit/s

95th percentile per-packet one-way delay: 18.389 ms

Loss rate: 0.01%

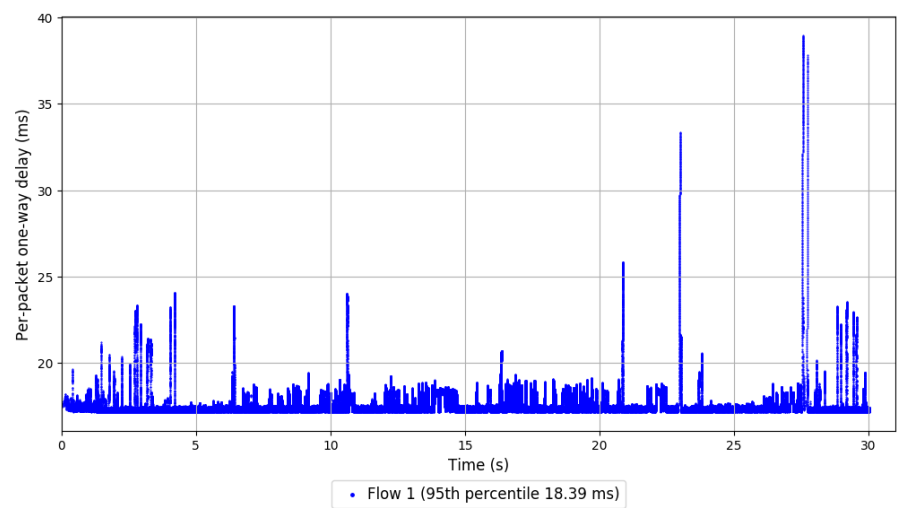
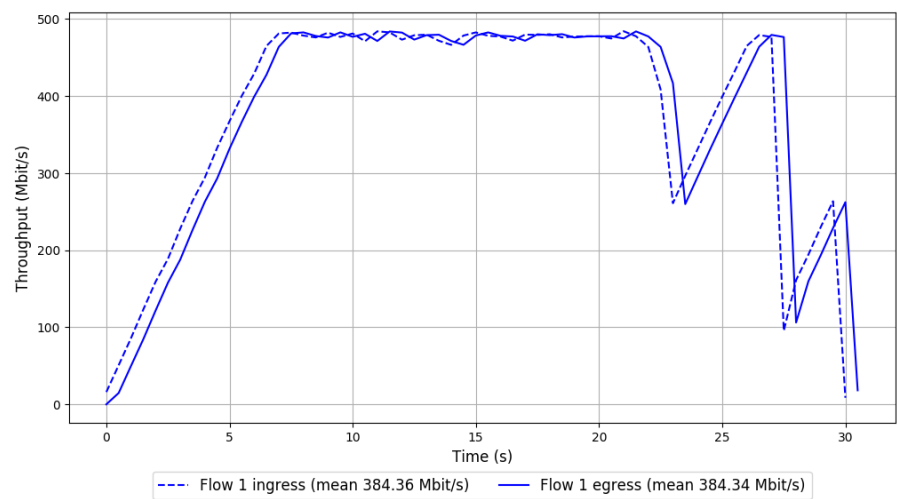
-- Flow 1:

Average throughput: 384.34 Mbit/s

95th percentile per-packet one-way delay: 18.389 ms

Loss rate: 0.01%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-05-21 22:30:11

End at: 2018-05-21 22:30:41

Local clock offset: -0.244 ms

Remote clock offset: 1.141 ms

# Below is generated by plot.py at 2018-05-22 02:31:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 308.01 Mbit/s

95th percentile per-packet one-way delay: 19.509 ms

Loss rate: 0.00%

-- Flow 1:

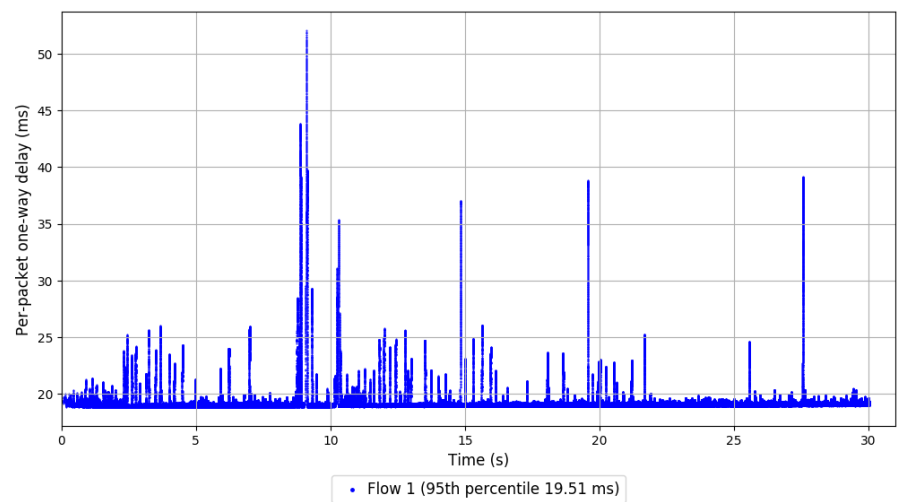
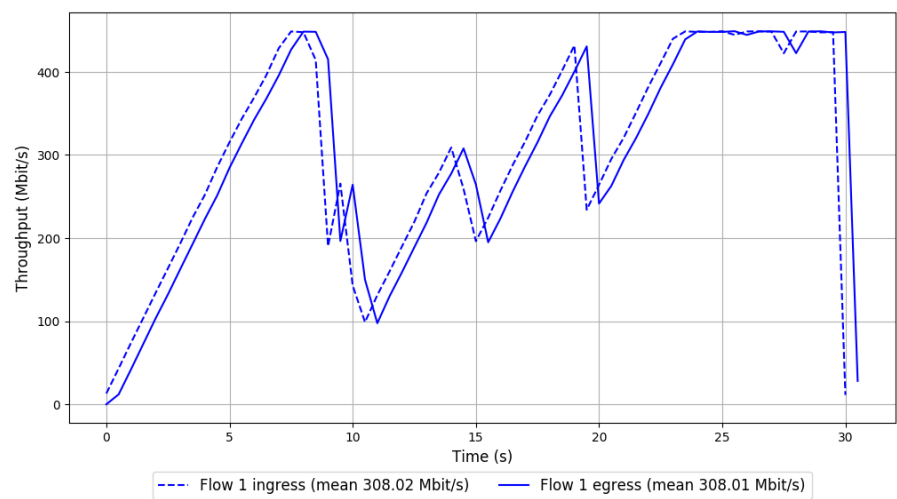
Average throughput: 308.01 Mbit/s

95th percentile per-packet one-way delay: 19.509 ms

Loss rate: 0.00%



Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-05-21 22:54:02

End at: 2018-05-21 22:54:32

Local clock offset: 1.923 ms

Remote clock offset: 1.184 ms

# Below is generated by plot.py at 2018-05-22 02:31:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 330.56 Mbit/s

95th percentile per-packet one-way delay: 19.214 ms

Loss rate: 0.00%

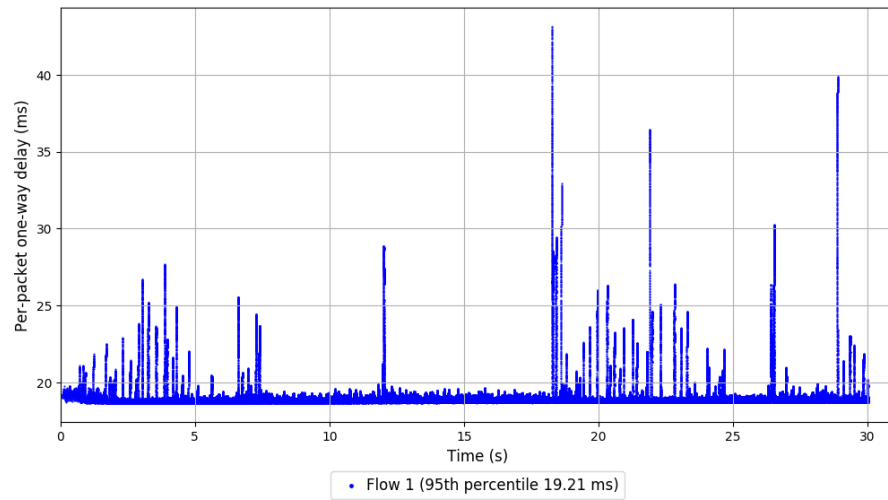
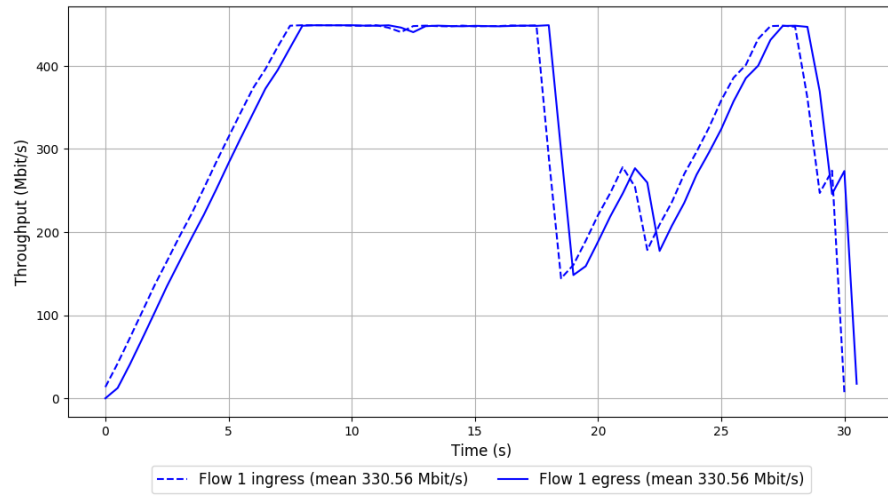
-- Flow 1:

Average throughput: 330.56 Mbit/s

95th percentile per-packet one-way delay: 19.214 ms

Loss rate: 0.00%

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



Run 5: Statistics of LEDBAT

Start at: 2018-05-21 23:18:00

End at: 2018-05-21 23:18:30

Local clock offset: -0.456 ms

Remote clock offset: 0.393 ms

# Below is generated by plot.py at 2018-05-22 02:31:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 279.31 Mbit/s

95th percentile per-packet one-way delay: 19.274 ms

Loss rate: 0.00%

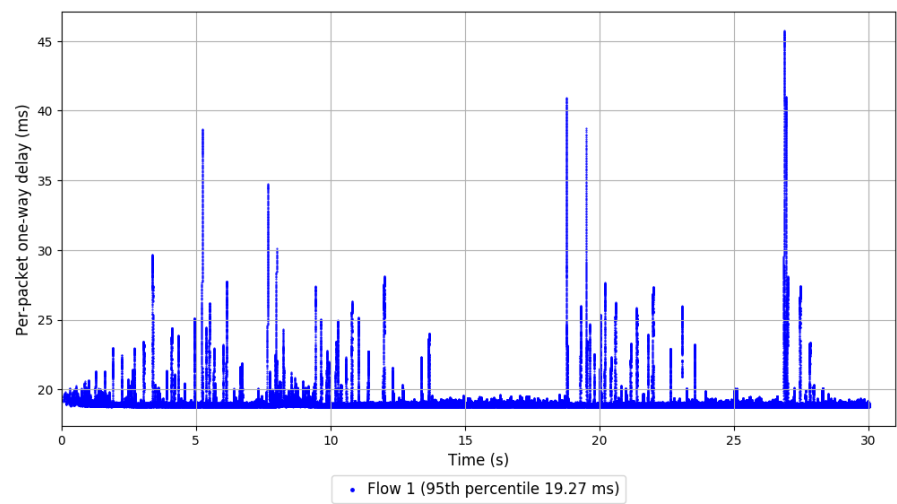
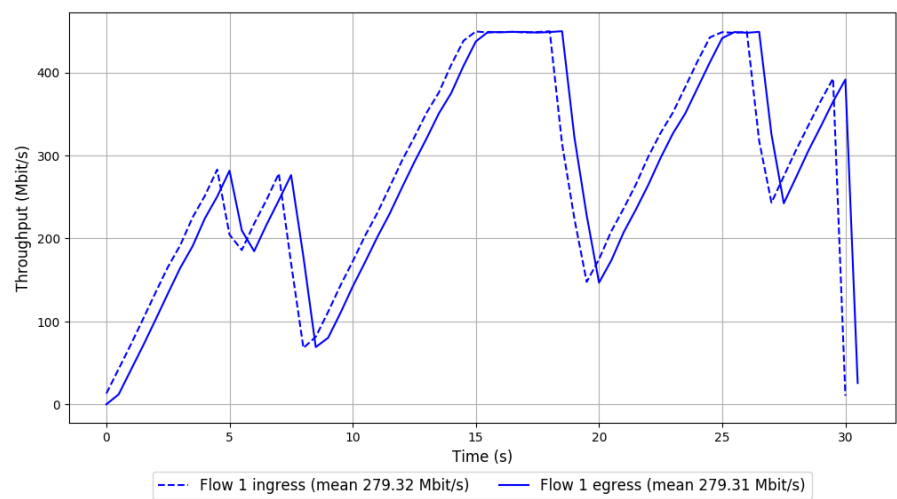
-- Flow 1:

Average throughput: 279.31 Mbit/s

95th percentile per-packet one-way delay: 19.274 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-05-21 23:41:51

End at: 2018-05-21 23:42:21

Local clock offset: -0.248 ms

Remote clock offset: 0.062 ms

# Below is generated by plot.py at 2018-05-22 02:31:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 318.94 Mbit/s

95th percentile per-packet one-way delay: 19.274 ms

Loss rate: 0.01%

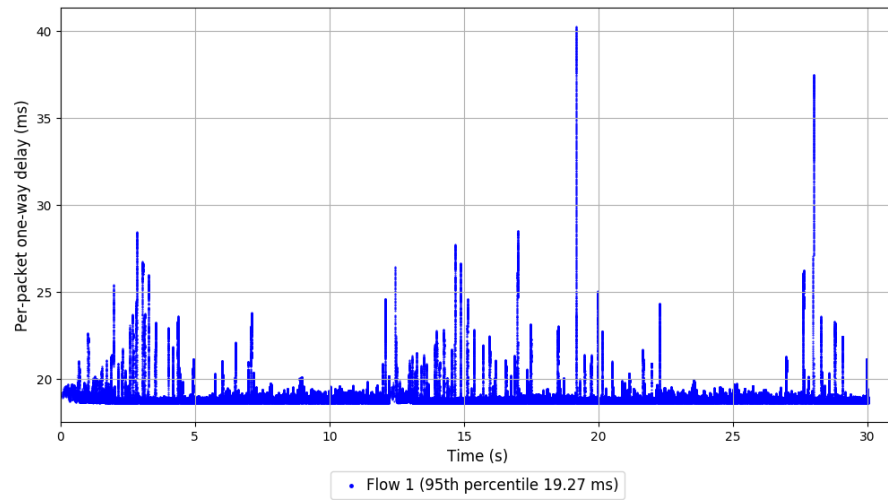
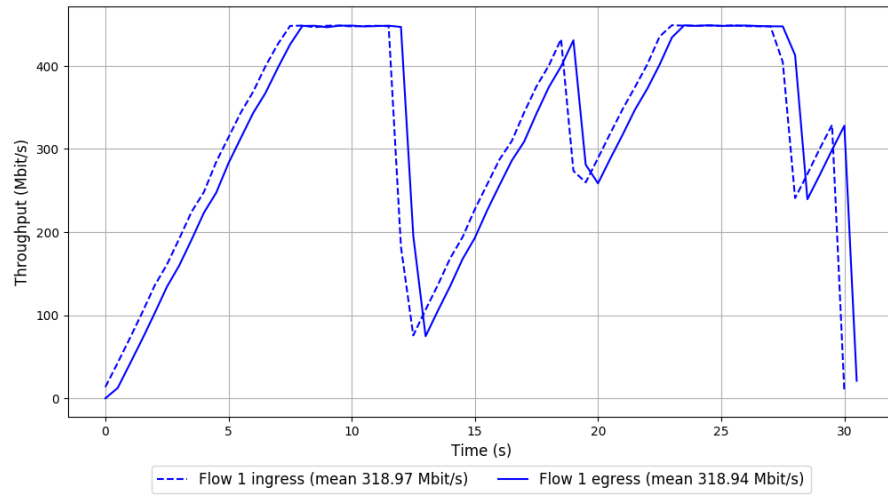
-- Flow 1:

Average throughput: 318.94 Mbit/s

95th percentile per-packet one-way delay: 19.274 ms

Loss rate: 0.01%

## Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-05-22 00:05:53

End at: 2018-05-22 00:06:23

Local clock offset: -0.014 ms

Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2018-05-22 02:31:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 327.15 Mbit/s

95th percentile per-packet one-way delay: 19.116 ms

Loss rate: 0.00%

-- Flow 1:

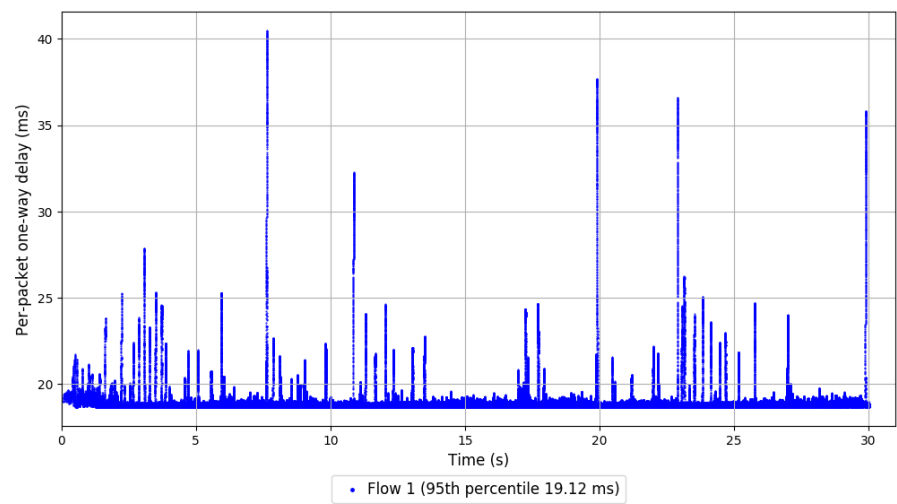
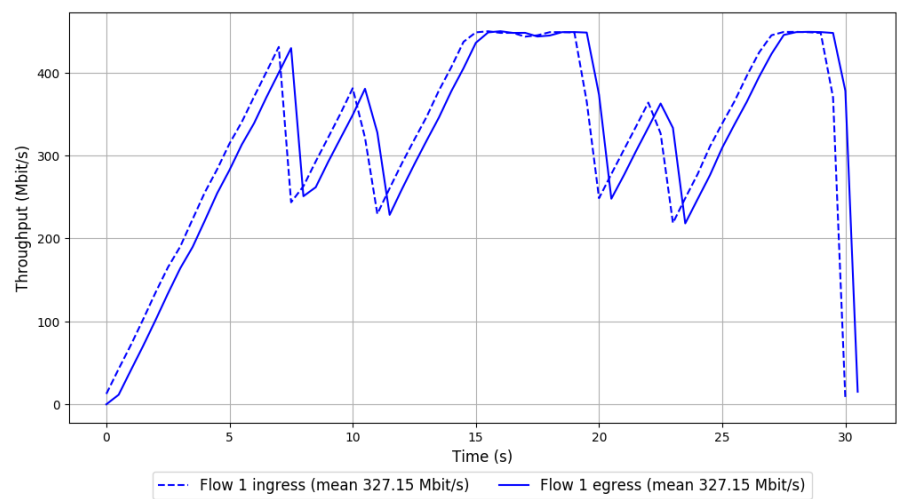
Average throughput: 327.15 Mbit/s

95th percentile per-packet one-way delay: 19.116 ms

Loss rate: 0.00%



Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-05-22 00:29:39

End at: 2018-05-22 00:30:09

Local clock offset: 0.148 ms

Remote clock offset: 0.045 ms

# Below is generated by plot.py at 2018-05-22 02:31:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 313.18 Mbit/s

95th percentile per-packet one-way delay: 19.139 ms

Loss rate: 0.00%

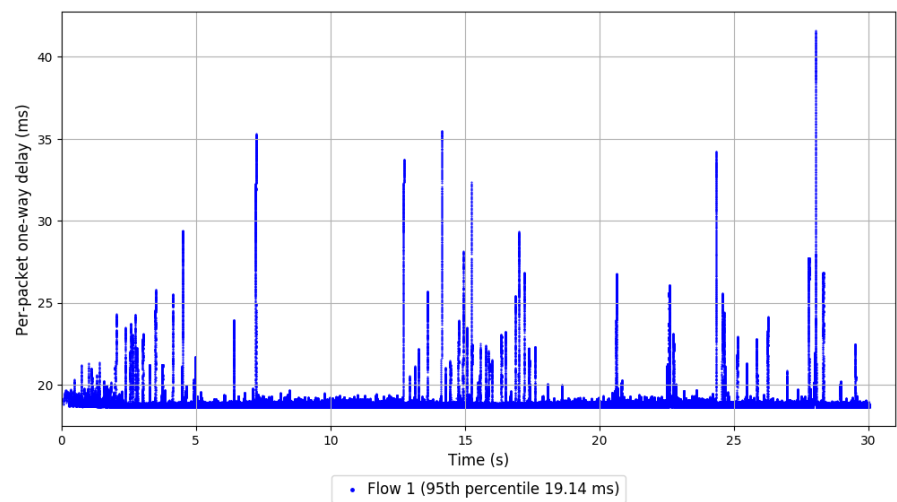
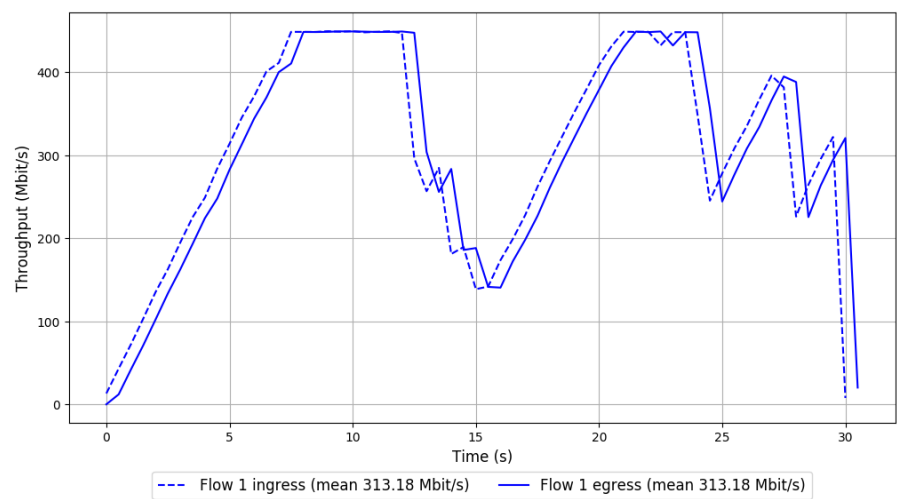
-- Flow 1:

Average throughput: 313.18 Mbit/s

95th percentile per-packet one-way delay: 19.139 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-05-22 00:53:21

End at: 2018-05-22 00:53:51

Local clock offset: 0.055 ms

Remote clock offset: 0.039 ms

# Below is generated by plot.py at 2018-05-22 02:32:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 337.49 Mbit/s

95th percentile per-packet one-way delay: 19.187 ms

Loss rate: 0.01%

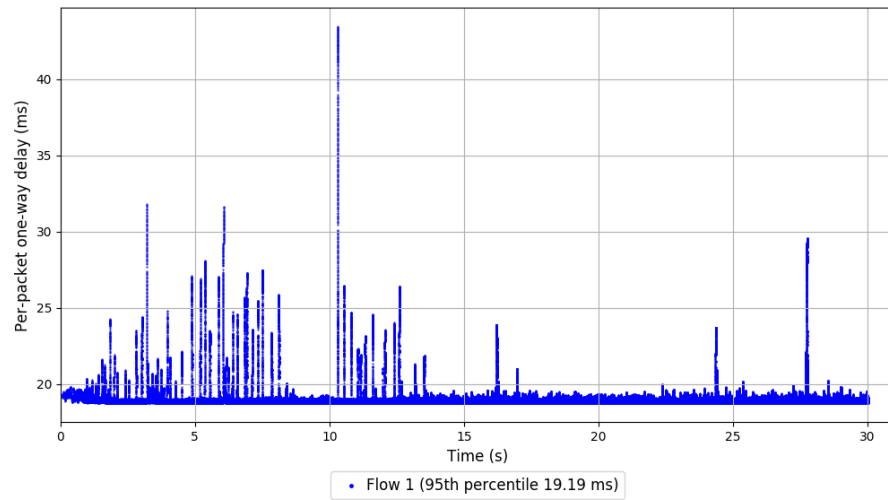
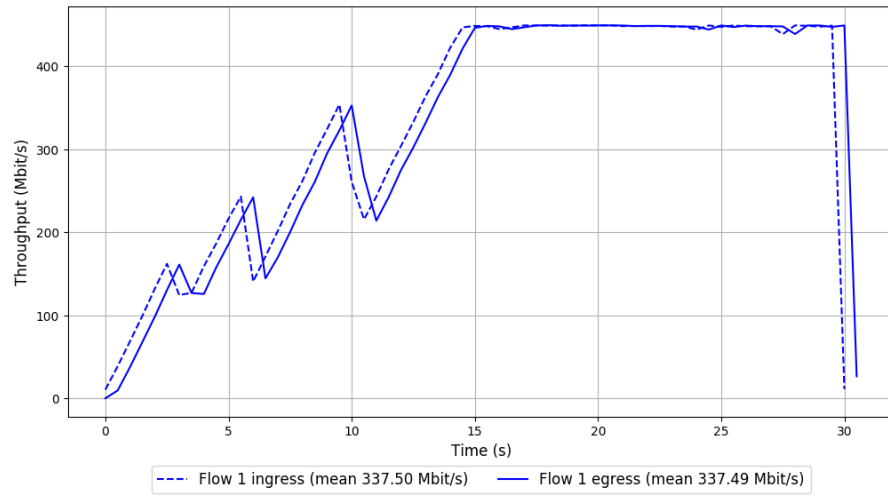
-- Flow 1:

Average throughput: 337.49 Mbit/s

95th percentile per-packet one-way delay: 19.187 ms

Loss rate: 0.01%

### Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-05-22 01:16:59

End at: 2018-05-22 01:17:29

Local clock offset: 0.073 ms

Remote clock offset: 0.102 ms

# Below is generated by plot.py at 2018-05-22 02:32:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 215.88 Mbit/s

95th percentile per-packet one-way delay: 18.389 ms

Loss rate: 0.01%

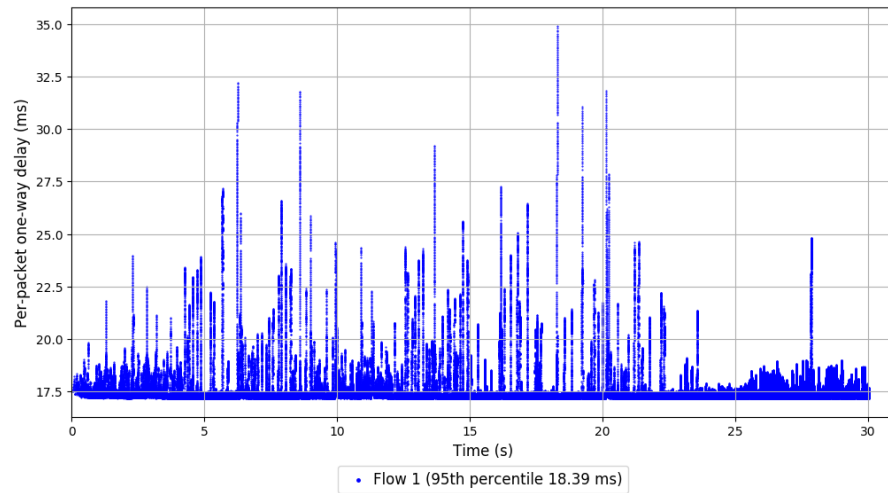
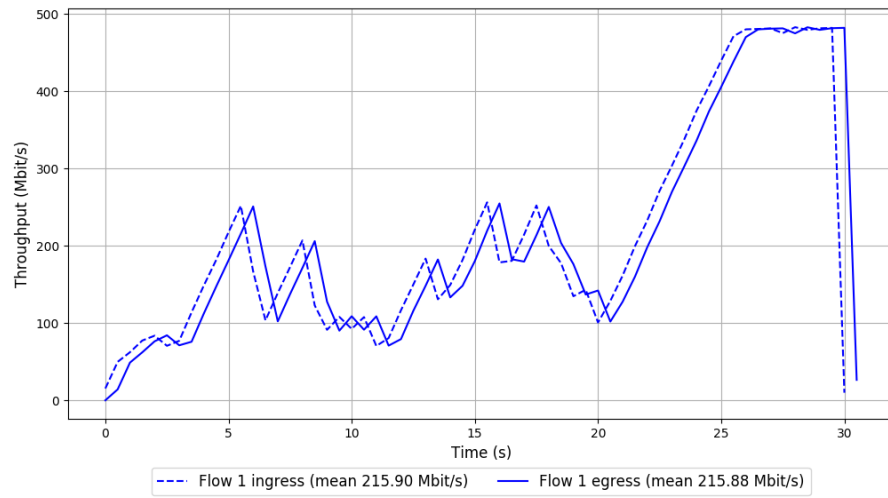
-- Flow 1:

Average throughput: 215.88 Mbit/s

95th percentile per-packet one-way delay: 18.389 ms

Loss rate: 0.01%

## Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-05-21 21:45:07

End at: 2018-05-21 21:45:37

Local clock offset: -1.771 ms

Remote clock offset: 4.572 ms

# Below is generated by plot.py at 2018-05-22 02:39:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 883.02 Mbit/s

95th percentile per-packet one-way delay: 90.164 ms

Loss rate: 1.09%

-- Flow 1:

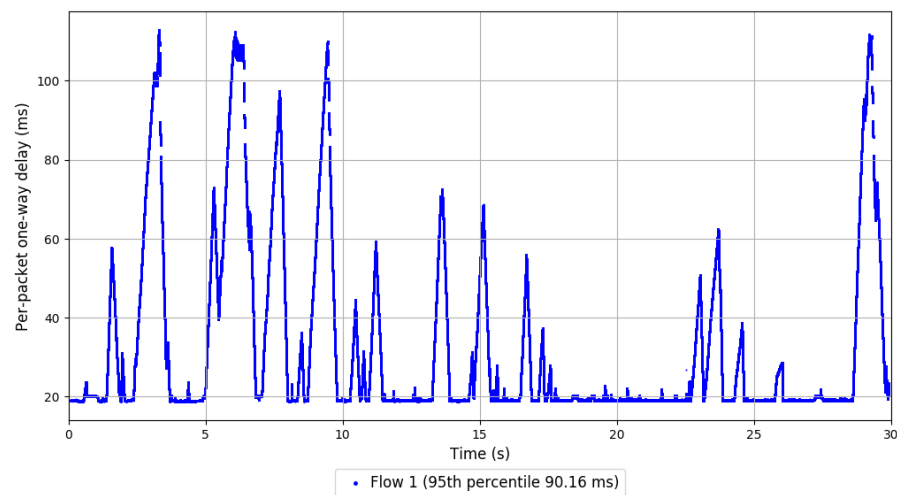
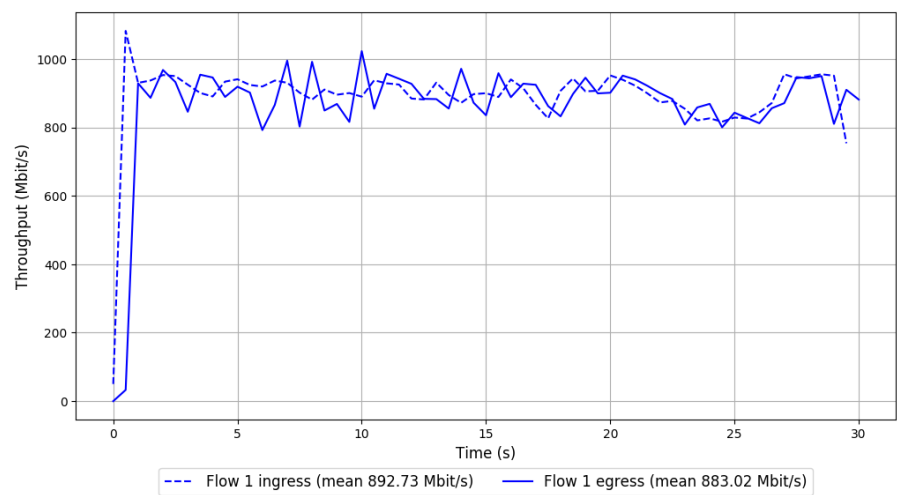
Average throughput: 883.02 Mbit/s

95th percentile per-packet one-way delay: 90.164 ms

Loss rate: 1.09%



Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-21 22:09:13

End at: 2018-05-21 22:09:43

Local clock offset: -1.061 ms

Remote clock offset: 2.316 ms

# Below is generated by plot.py at 2018-05-22 02:40:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 862.89 Mbit/s

95th percentile per-packet one-way delay: 23.051 ms

Loss rate: 0.28%

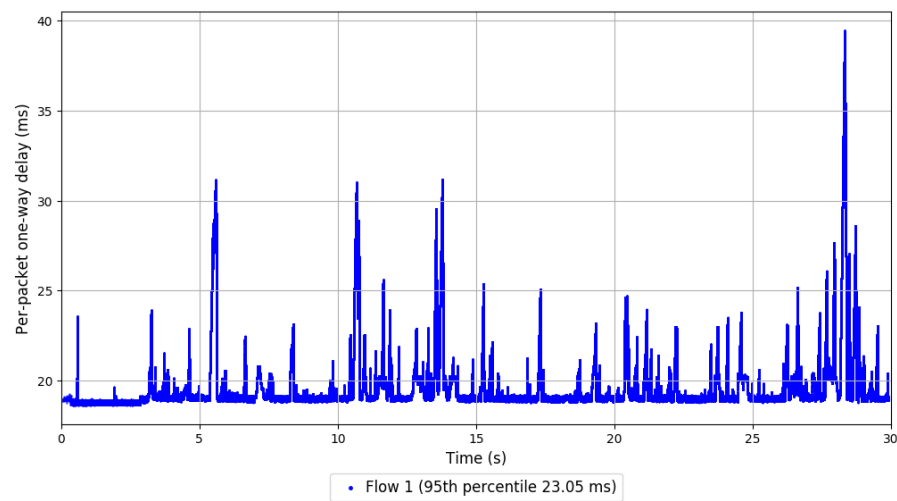
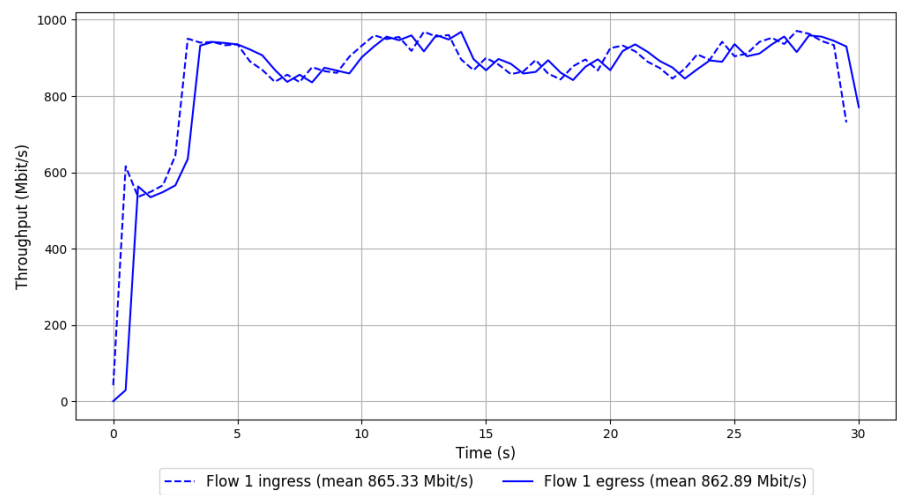
-- Flow 1:

Average throughput: 862.89 Mbit/s

95th percentile per-packet one-way delay: 23.051 ms

Loss rate: 0.28%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-05-21 22:33:01

End at: 2018-05-21 22:33:31

Local clock offset: 0.345 ms

Remote clock offset: 1.07 ms

# Below is generated by plot.py at 2018-05-22 02:42:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 910.33 Mbit/s

95th percentile per-packet one-way delay: 21.737 ms

Loss rate: 0.44%

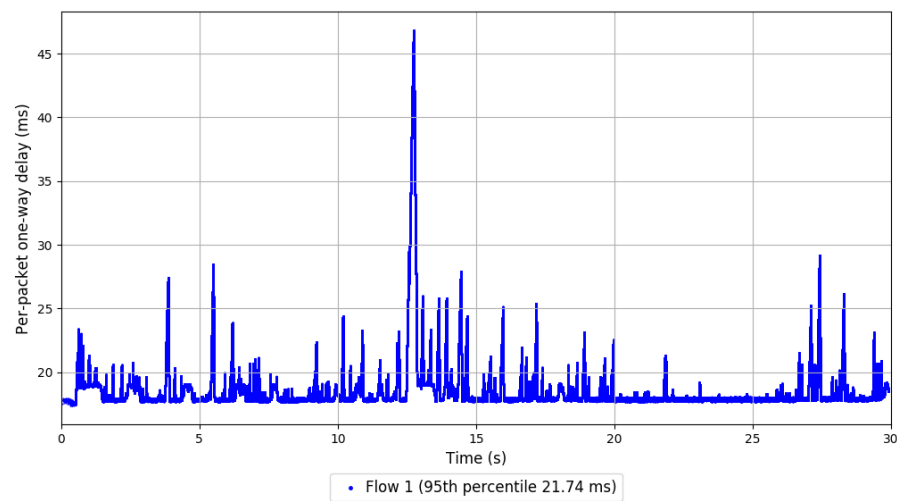
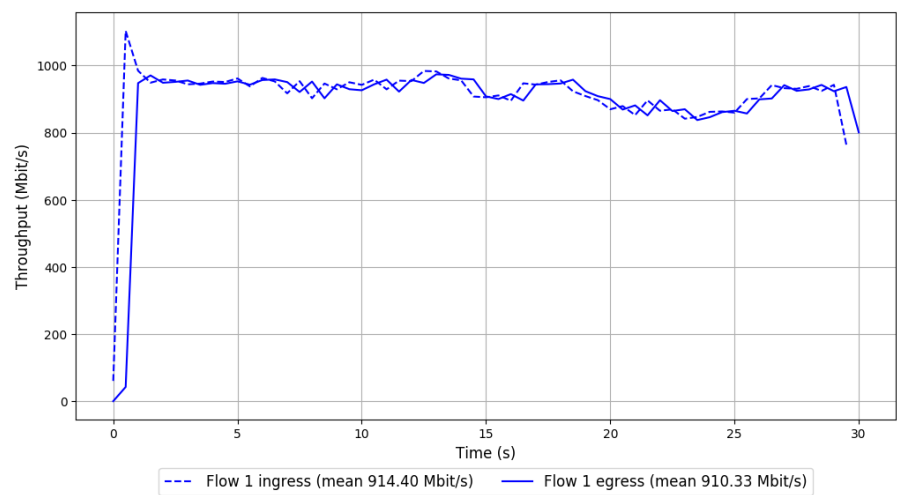
-- Flow 1:

Average throughput: 910.33 Mbit/s

95th percentile per-packet one-way delay: 21.737 ms

Loss rate: 0.44%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-05-21 22:56:58

End at: 2018-05-21 22:57:28

Local clock offset: 1.872 ms

Remote clock offset: 0.846 ms

# Below is generated by plot.py at 2018-05-22 02:42:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 906.93 Mbit/s

95th percentile per-packet one-way delay: 25.900 ms

Loss rate: 0.50%

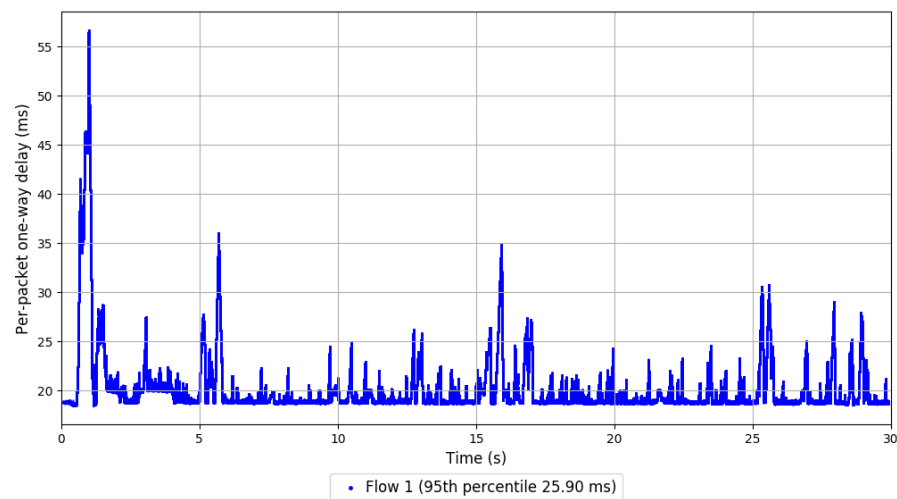
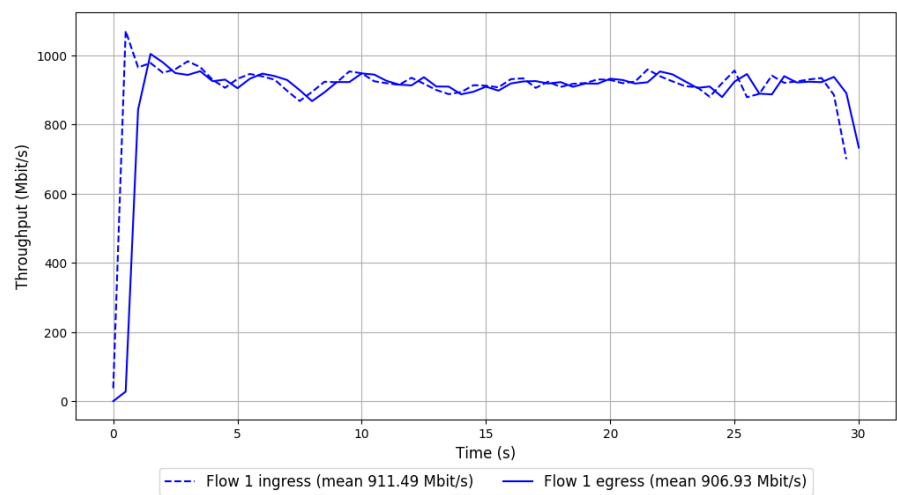
-- Flow 1:

Average throughput: 906.93 Mbit/s

95th percentile per-packet one-way delay: 25.900 ms

Loss rate: 0.50%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-05-21 23:20:55

End at: 2018-05-21 23:21:25

Local clock offset: -0.528 ms

Remote clock offset: 0.315 ms

# Below is generated by plot.py at 2018-05-22 02:42:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 901.75 Mbit/s

95th percentile per-packet one-way delay: 42.990 ms

Loss rate: 0.57%

-- Flow 1:

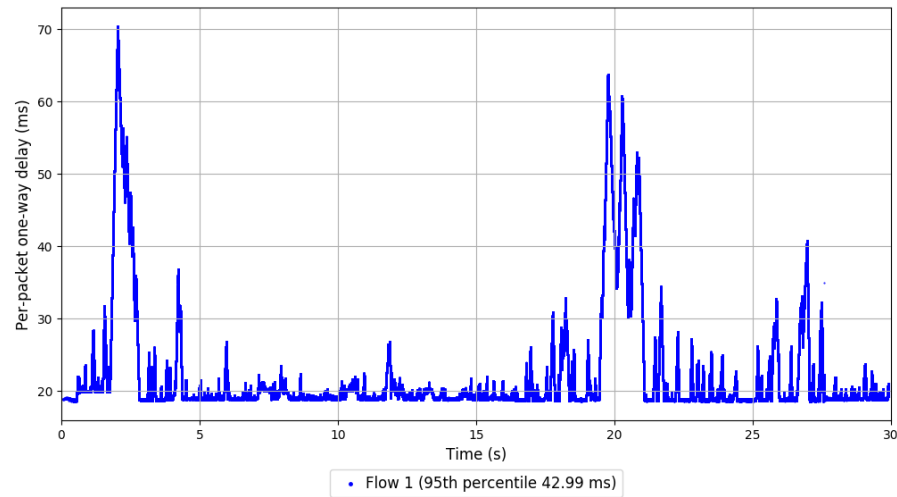
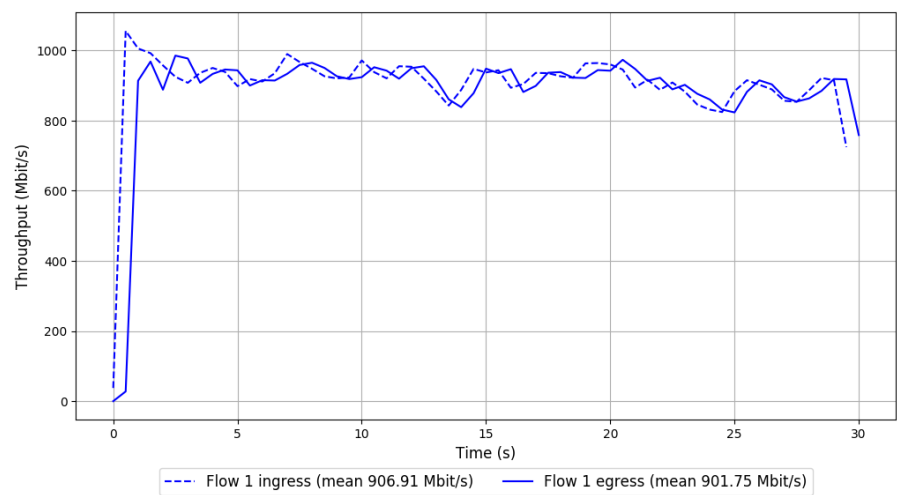
Average throughput: 901.75 Mbit/s

95th percentile per-packet one-way delay: 42.990 ms

Loss rate: 0.57%



Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-05-21 23:44:50

End at: 2018-05-21 23:45:20

Local clock offset: -0.351 ms

Remote clock offset: 0.037 ms

# Below is generated by plot.py at 2018-05-22 02:42:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 924.50 Mbit/s

95th percentile per-packet one-way delay: 22.196 ms

Loss rate: 0.50%

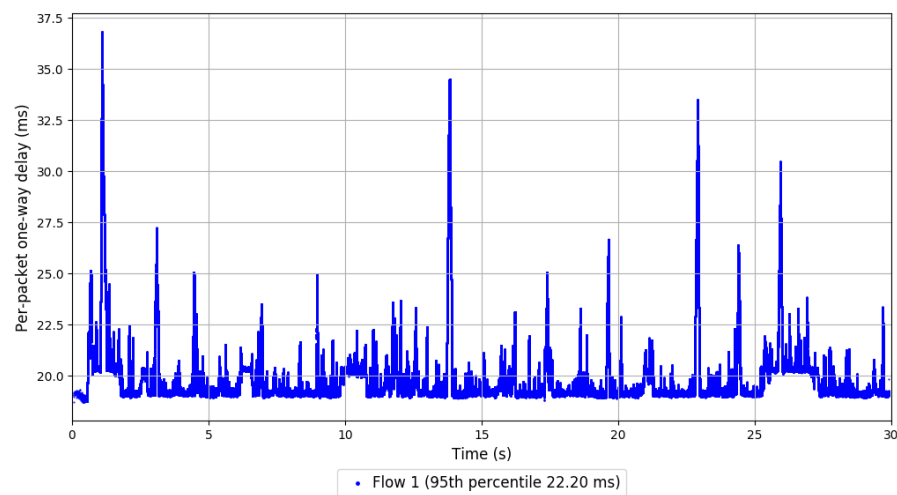
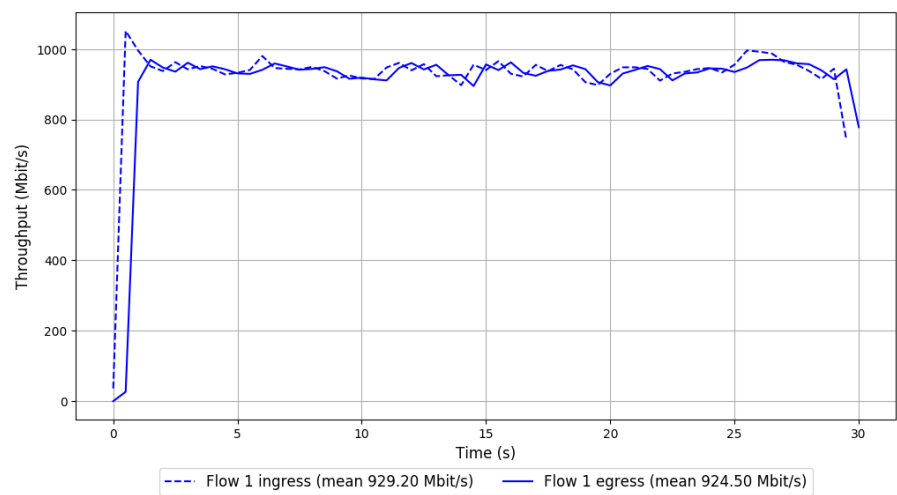
-- Flow 1:

Average throughput: 924.50 Mbit/s

95th percentile per-packet one-way delay: 22.196 ms

Loss rate: 0.50%

Run 6: Report of PCC-Allegro — Data Link

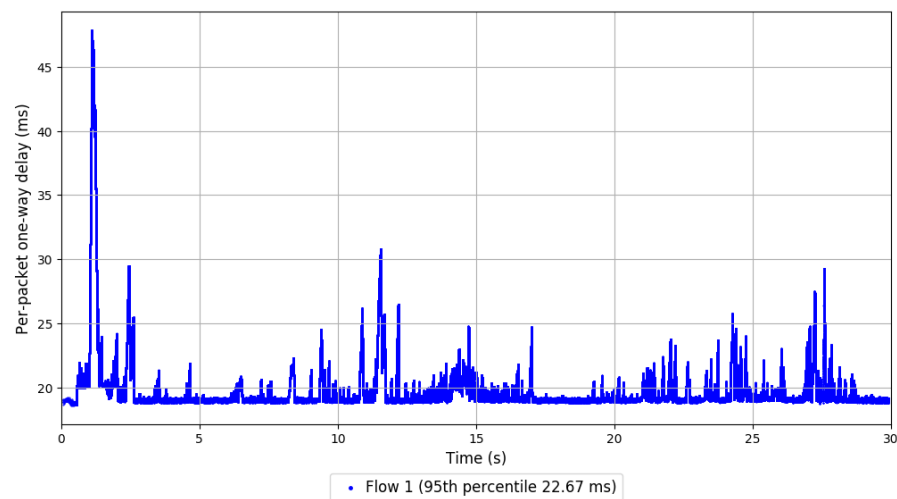
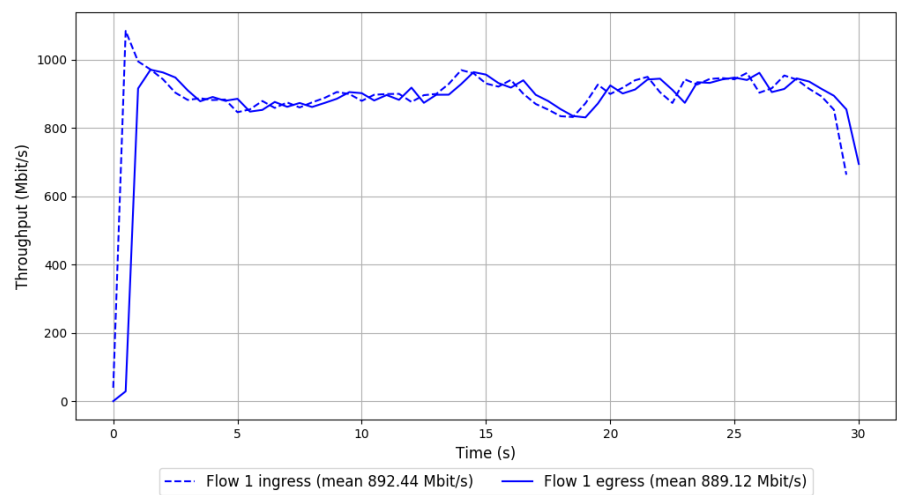


Run 7: Statistics of PCC-Allegro

Start at: 2018-05-22 00:08:45  
End at: 2018-05-22 00:09:15  
Local clock offset: -0.016 ms  
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2018-05-22 02:43:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 889.12 Mbit/s  
95th percentile per-packet one-way delay: 22.670 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 889.12 Mbit/s  
95th percentile per-packet one-way delay: 22.670 ms  
Loss rate: 0.37%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-05-22 00:32:34

End at: 2018-05-22 00:33:04

Local clock offset: 0.065 ms

Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2018-05-22 02:43:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 876.90 Mbit/s

95th percentile per-packet one-way delay: 22.623 ms

Loss rate: 0.51%

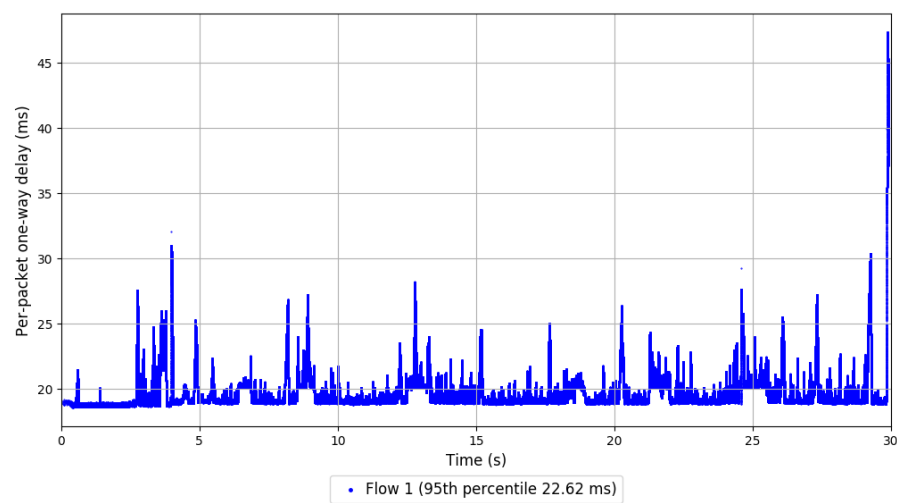
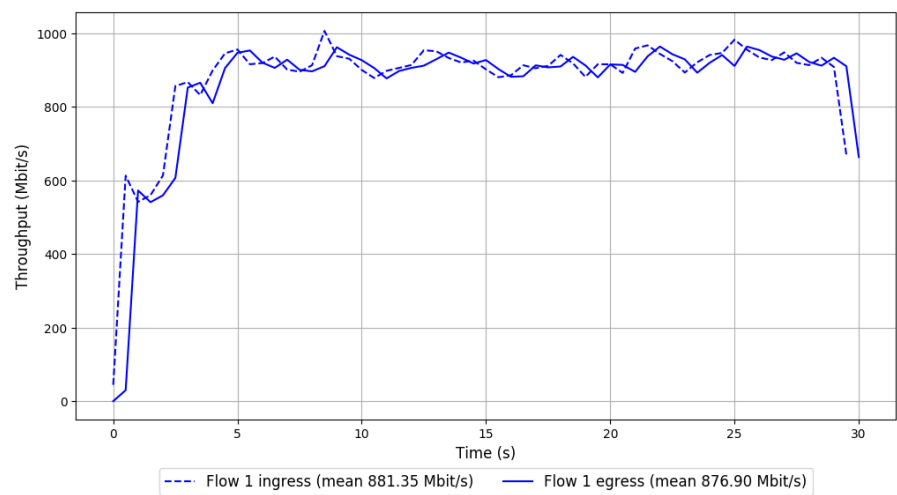
-- Flow 1:

Average throughput: 876.90 Mbit/s

95th percentile per-packet one-way delay: 22.623 ms

Loss rate: 0.51%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-05-22 00:56:14

End at: 2018-05-22 00:56:44

Local clock offset: 0.046 ms

Remote clock offset: 0.042 ms

# Below is generated by plot.py at 2018-05-22 02:51:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 886.08 Mbit/s

95th percentile per-packet one-way delay: 26.341 ms

Loss rate: 0.49%

-- Flow 1:

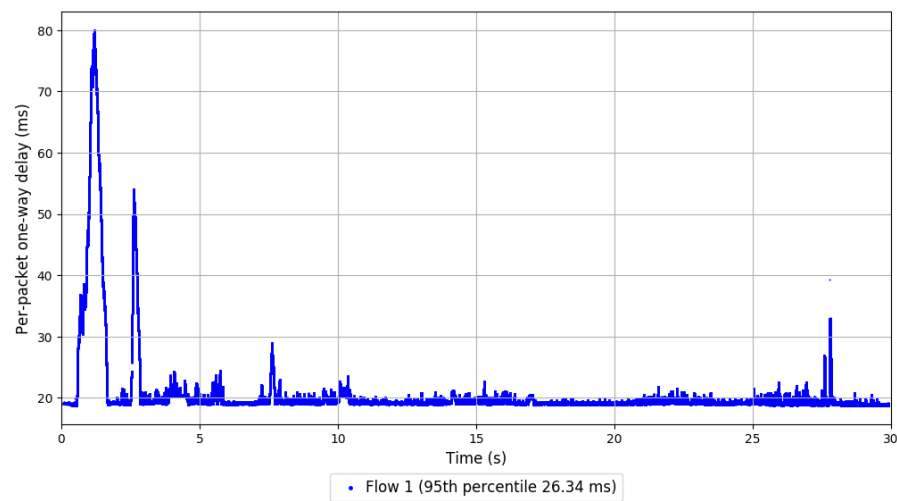
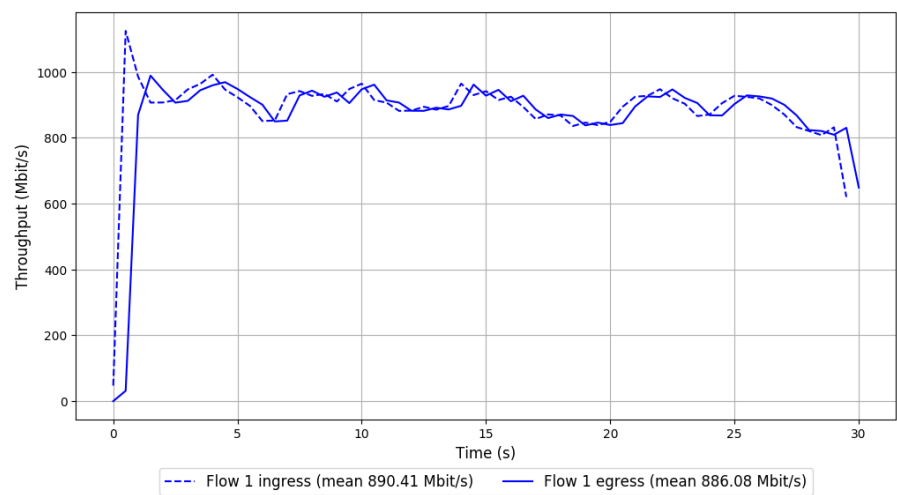
Average throughput: 886.08 Mbit/s

95th percentile per-packet one-way delay: 26.341 ms

Loss rate: 0.49%



Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-05-22 01:19:46

End at: 2018-05-22 01:20:16

Local clock offset: 0.051 ms

Remote clock offset: 0.104 ms

# Below is generated by plot.py at 2018-05-22 02:51:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 910.38 Mbit/s

95th percentile per-packet one-way delay: 21.060 ms

Loss rate: 0.40%

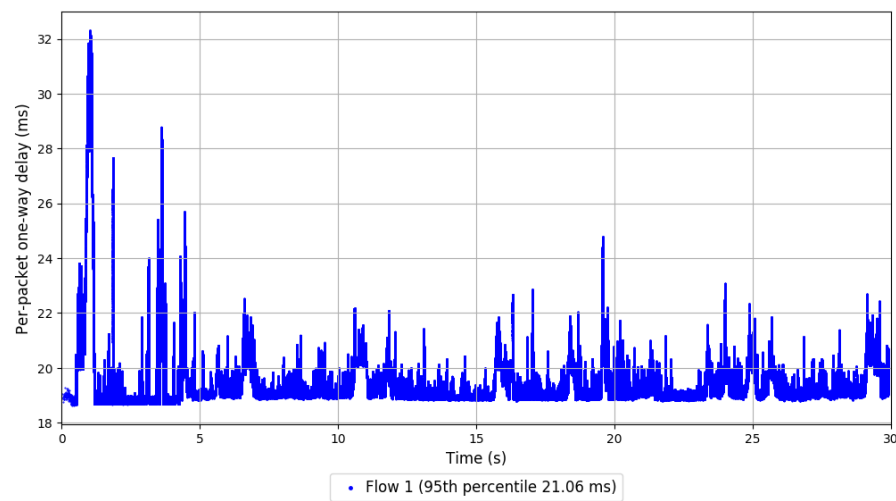
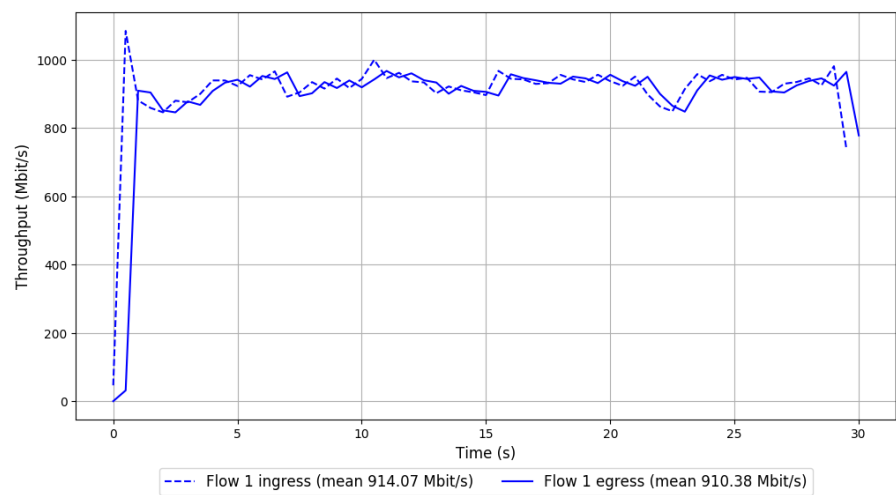
-- Flow 1:

Average throughput: 910.38 Mbit/s

95th percentile per-packet one-way delay: 21.060 ms

Loss rate: 0.40%

Run 10: Report of PCC-Allegro — Data Link

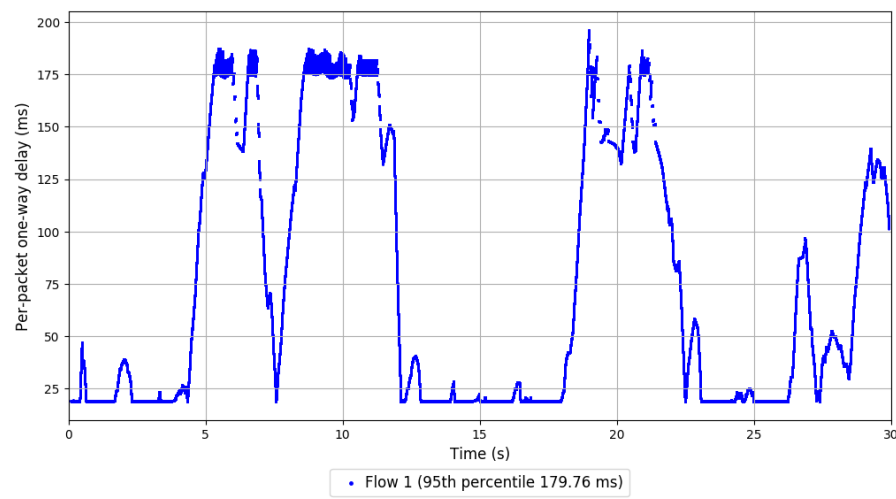
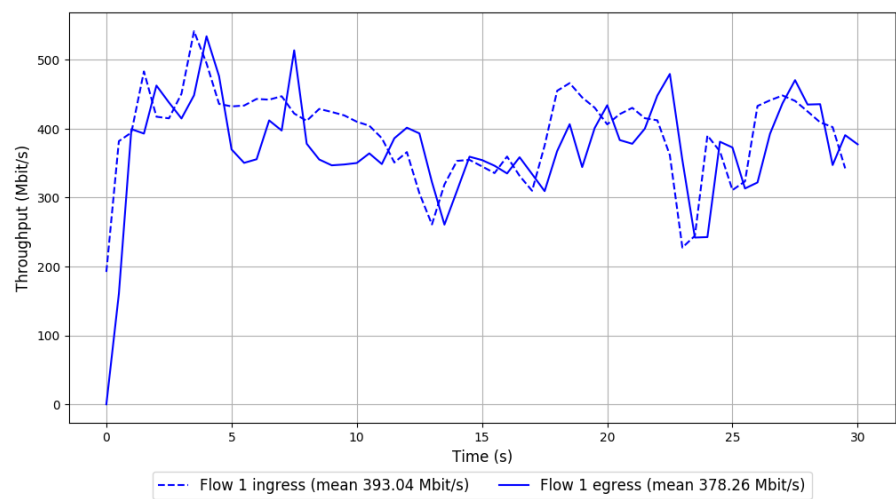


```
Run 1: Statistics of PCC-Expr

Start at: 2018-05-21 21:51:09
End at: 2018-05-21 21:51:39
Local clock offset: -2.385 ms
Remote clock offset: 2.709 ms

# Below is generated by plot.py at 2018-05-22 02:51:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 378.26 Mbit/s
95th percentile per-packet one-way delay: 179.761 ms
Loss rate: 3.76%
-- Flow 1:
Average throughput: 378.26 Mbit/s
95th percentile per-packet one-way delay: 179.761 ms
Loss rate: 3.76%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-05-21 22:15:11

End at: 2018-05-21 22:15:41

Local clock offset: -0.98 ms

Remote clock offset: 2.642 ms

# Below is generated by plot.py at 2018-05-22 02:51:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 373.71 Mbit/s

95th percentile per-packet one-way delay: 155.874 ms

Loss rate: 1.58%

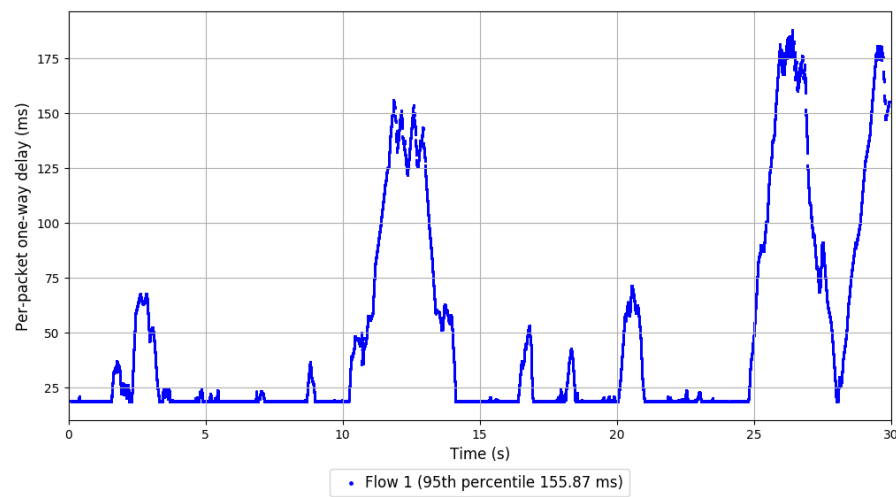
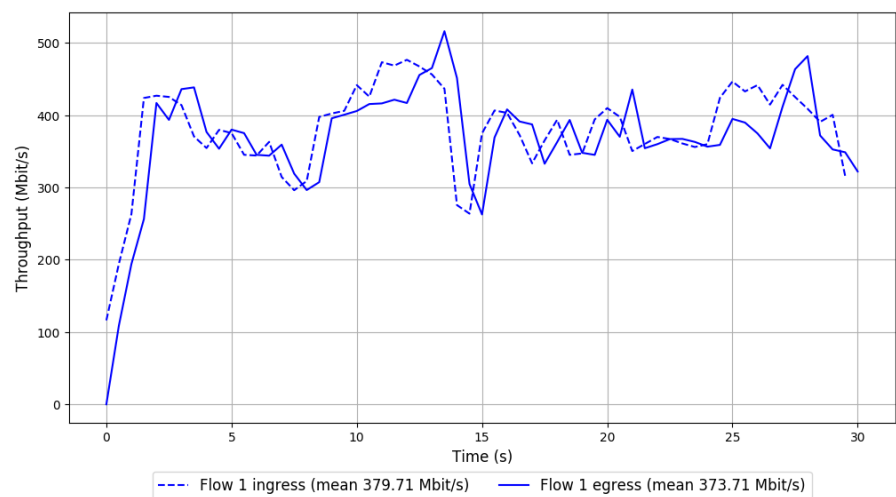
-- Flow 1:

Average throughput: 373.71 Mbit/s

95th percentile per-packet one-way delay: 155.874 ms

Loss rate: 1.58%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-05-21 22:39:01

End at: 2018-05-21 22:39:31

Local clock offset: 1.263 ms

Remote clock offset: 1.016 ms

# Below is generated by plot.py at 2018-05-22 02:51:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 370.99 Mbit/s

95th percentile per-packet one-way delay: 122.325 ms

Loss rate: 0.08%

-- Flow 1:

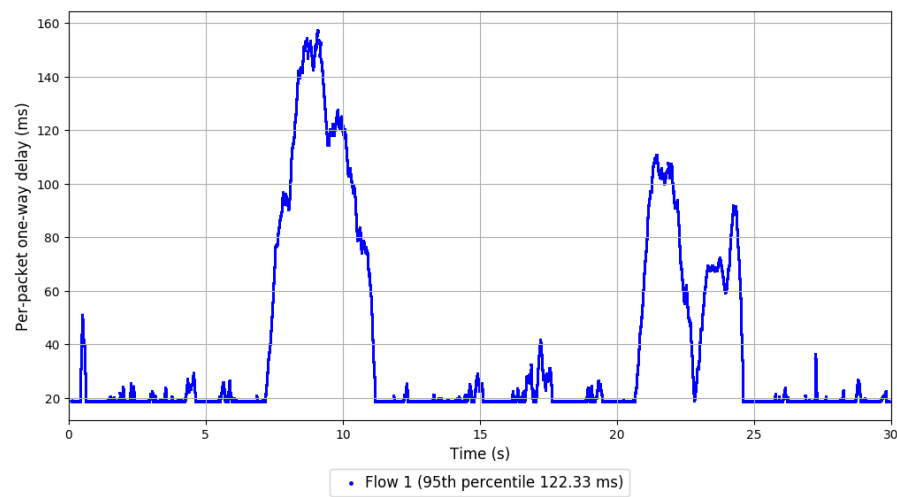
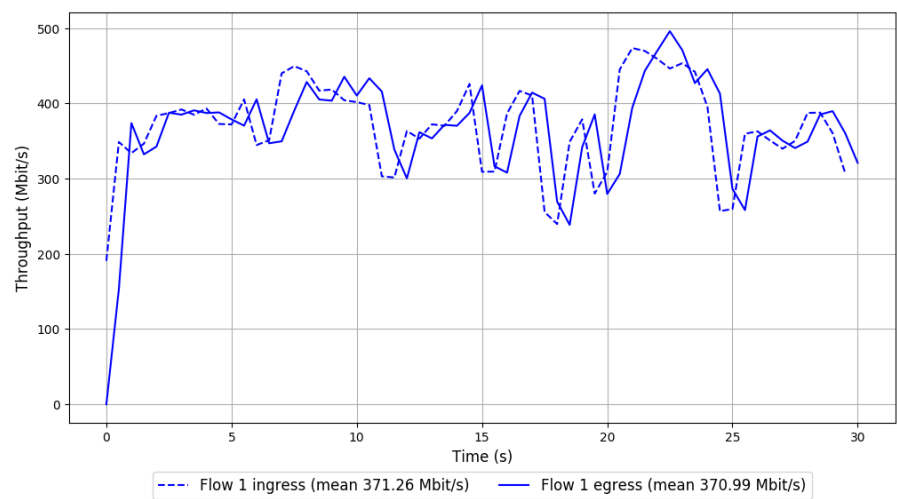
Average throughput: 370.99 Mbit/s

95th percentile per-packet one-way delay: 122.325 ms

Loss rate: 0.08%



Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-05-21 23:02:58

End at: 2018-05-21 23:03:28

Local clock offset: 0.835 ms

Remote clock offset: 0.536 ms

# Below is generated by plot.py at 2018-05-22 02:51:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 201.84 Mbit/s

95th percentile per-packet one-way delay: 144.154 ms

Loss rate: 44.88%

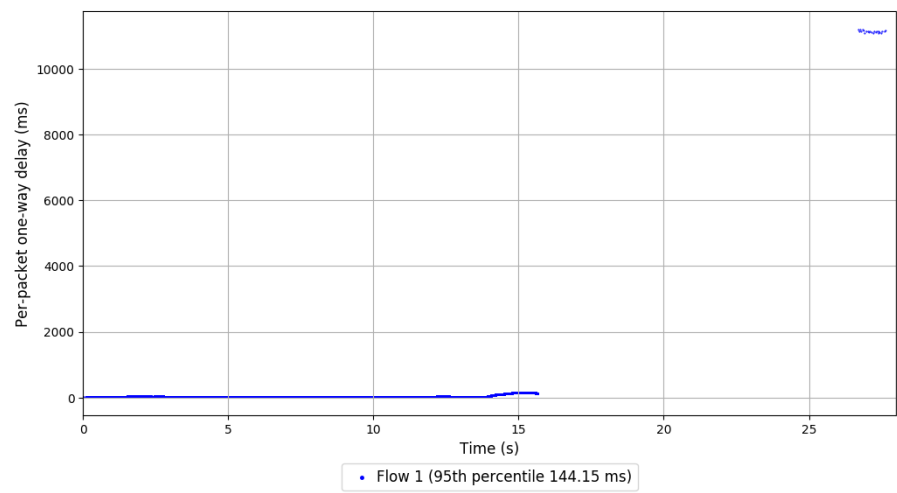
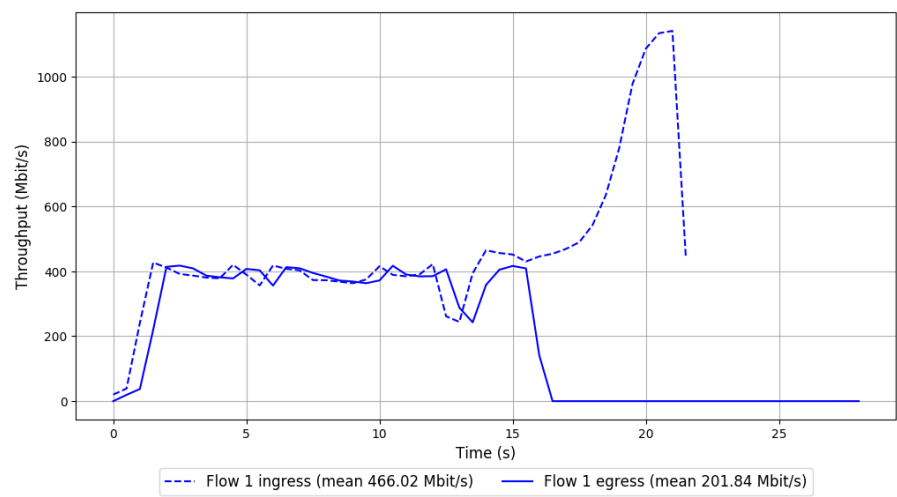
-- Flow 1:

Average throughput: 201.84 Mbit/s

95th percentile per-packet one-way delay: 144.154 ms

Loss rate: 44.88%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-05-21 23:26:53

End at: 2018-05-21 23:27:23

Local clock offset: -0.743 ms

Remote clock offset: 0.278 ms

# Below is generated by plot.py at 2018-05-22 02:51:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 366.35 Mbit/s

95th percentile per-packet one-way delay: 116.066 ms

Loss rate: 0.54%

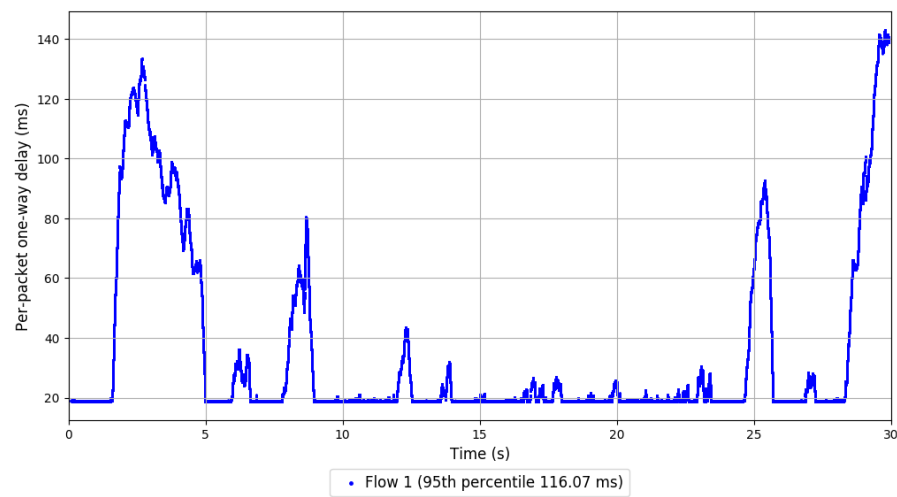
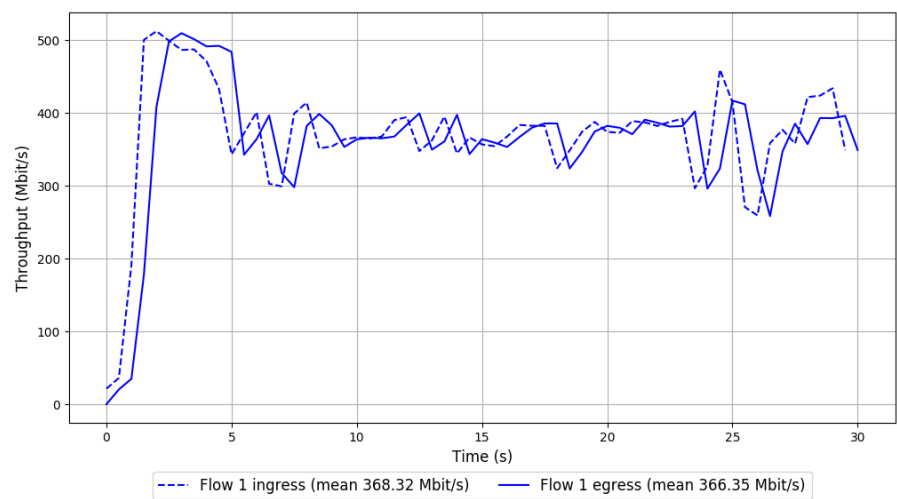
-- Flow 1:

Average throughput: 366.35 Mbit/s

95th percentile per-packet one-way delay: 116.066 ms

Loss rate: 0.54%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-05-21 23:50:50

End at: 2018-05-21 23:51:20

Local clock offset: -0.292 ms

Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2018-05-22 02:52:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 367.65 Mbit/s

95th percentile per-packet one-way delay: 45.082 ms

Loss rate: 0.09%

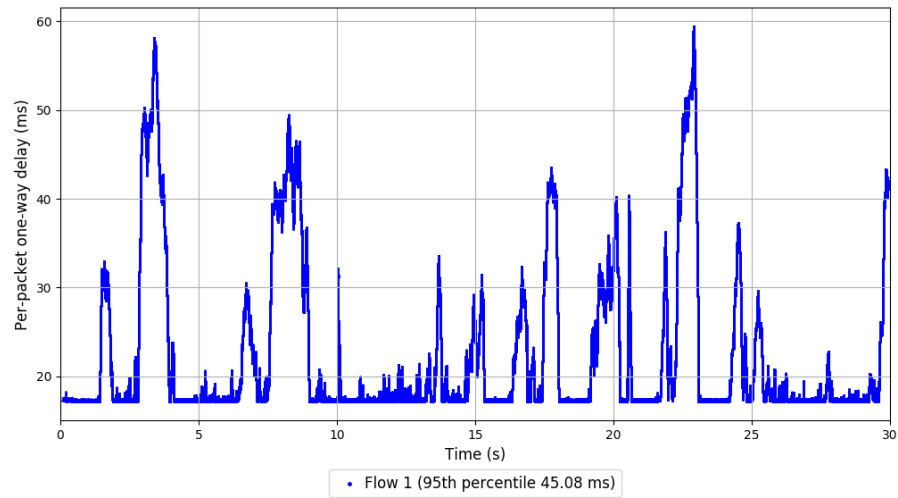
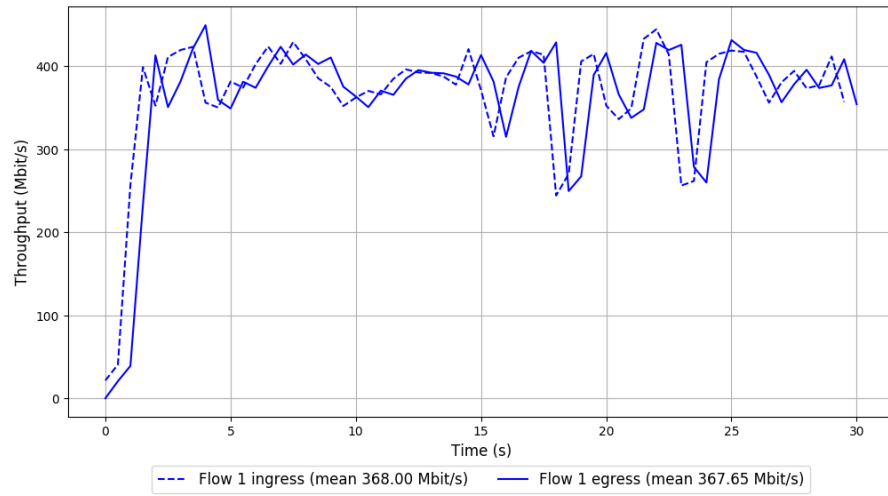
-- Flow 1:

Average throughput: 367.65 Mbit/s

95th percentile per-packet one-way delay: 45.082 ms

Loss rate: 0.09%

## Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-05-22 00:14:42

End at: 2018-05-22 00:15:12

Local clock offset: 0.169 ms

Remote clock offset: 0.054 ms

# Below is generated by plot.py at 2018-05-22 02:57:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 353.94 Mbit/s

95th percentile per-packet one-way delay: 96.774 ms

Loss rate: 0.00%

-- Flow 1:

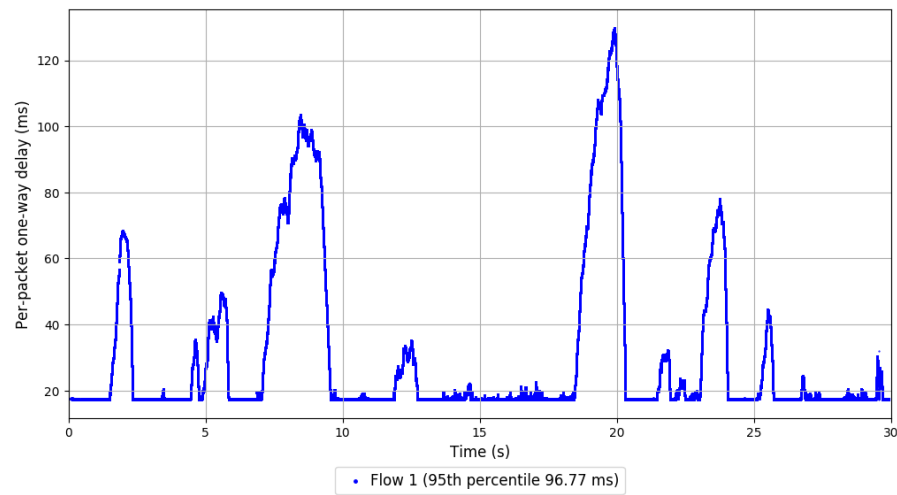
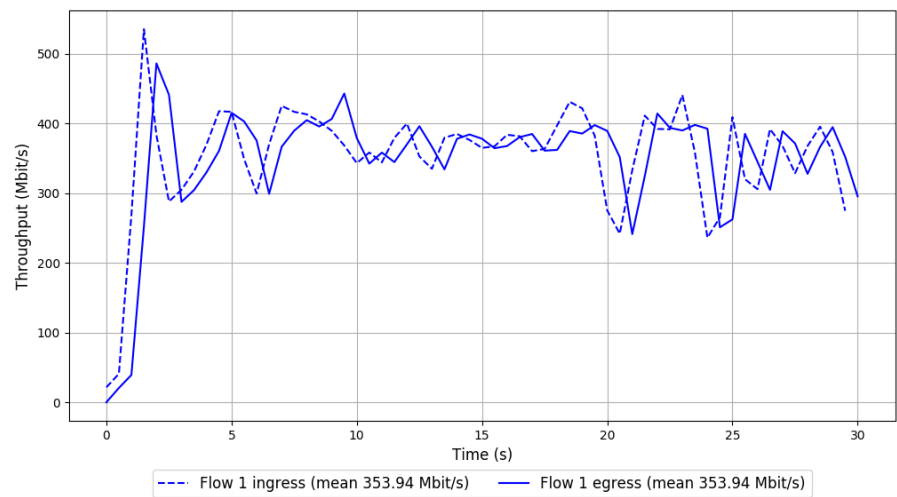
Average throughput: 353.94 Mbit/s

95th percentile per-packet one-way delay: 96.774 ms

Loss rate: 0.00%



Run 7: Report of PCC-Expr — Data Link

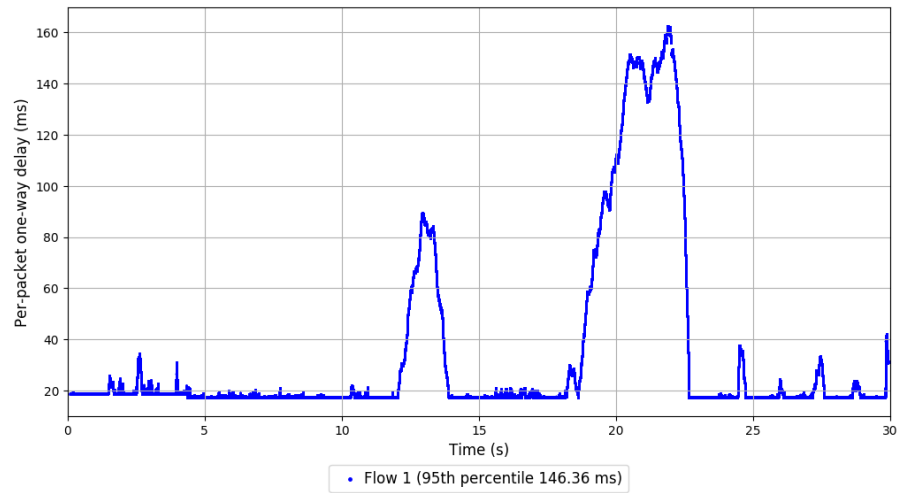
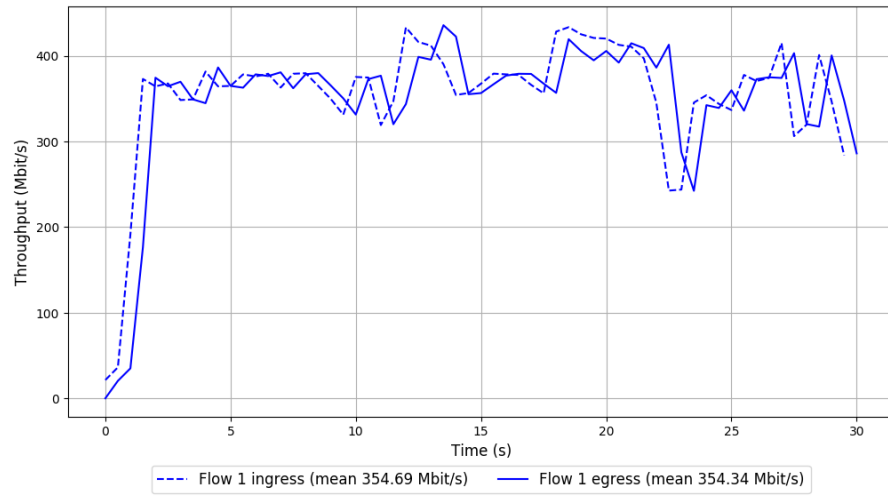


Run 8: Statistics of PCC-Expr

Start at: 2018-05-22 00:38:29  
End at: 2018-05-22 00:38:59  
Local clock offset: 0.218 ms  
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2018-05-22 02:59:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 354.34 Mbit/s  
95th percentile per-packet one-way delay: 146.357 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 354.34 Mbit/s  
95th percentile per-packet one-way delay: 146.357 ms  
Loss rate: 0.10%

# Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-05-22 01:02:08

End at: 2018-05-22 01:02:38

Local clock offset: 0.137 ms

Remote clock offset: 0.038 ms

# Below is generated by plot.py at 2018-05-22 02:59:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 348.12 Mbit/s

95th percentile per-packet one-way delay: 44.796 ms

Loss rate: 0.02%

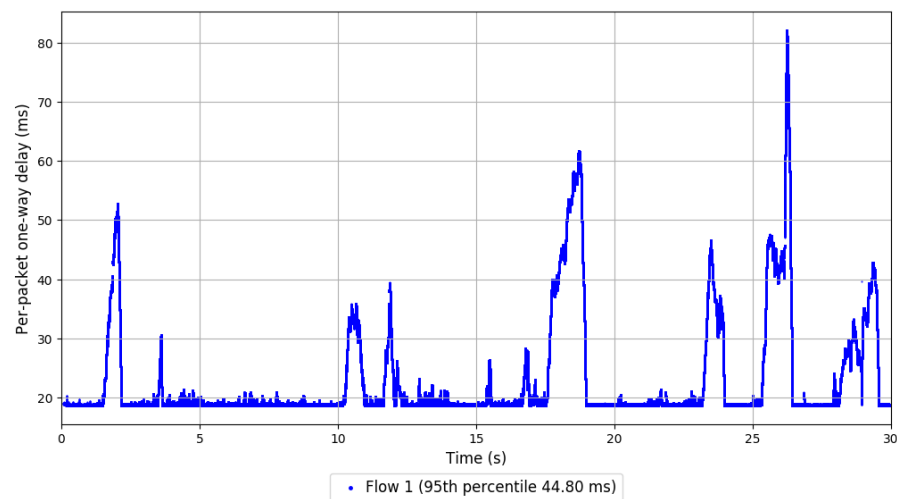
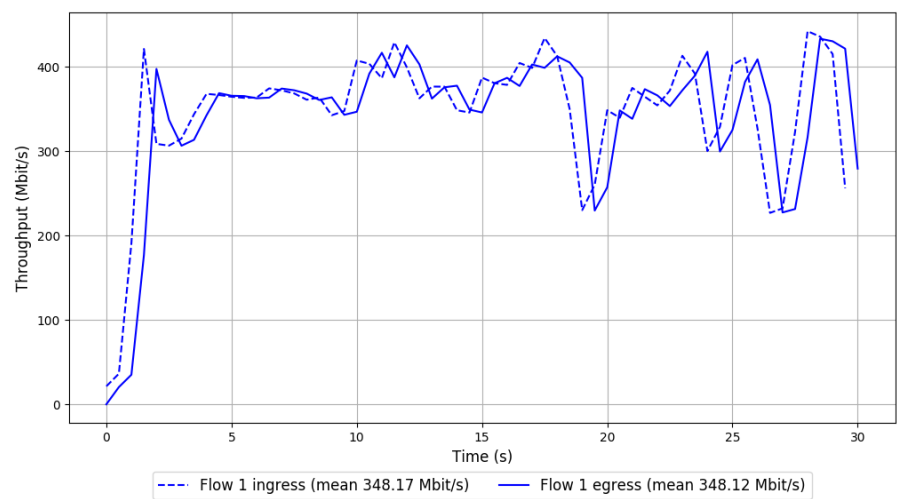
-- Flow 1:

Average throughput: 348.12 Mbit/s

95th percentile per-packet one-way delay: 44.796 ms

Loss rate: 0.02%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-05-22 01:25:41

End at: 2018-05-22 01:26:11

Local clock offset: -0.014 ms

Remote clock offset: 0.169 ms

# Below is generated by plot.py at 2018-05-22 03:00:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 370.64 Mbit/s

95th percentile per-packet one-way delay: 142.164 ms

Loss rate: 0.53%

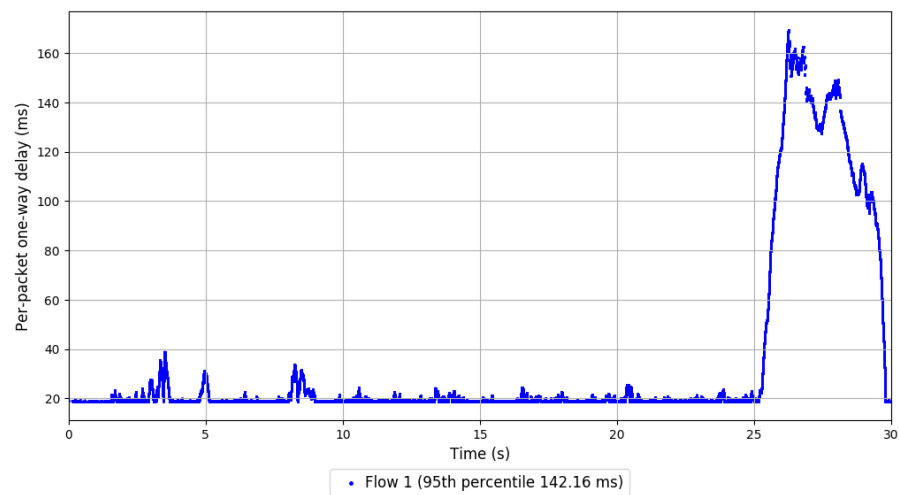
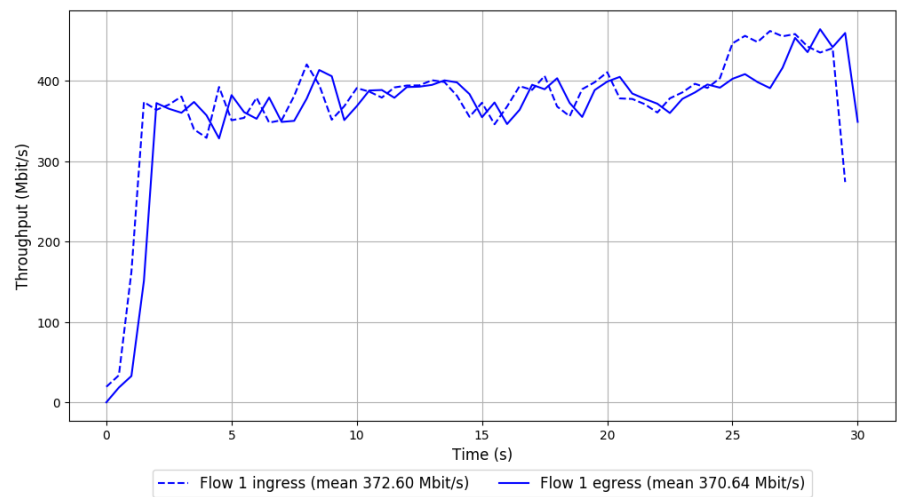
-- Flow 1:

Average throughput: 370.64 Mbit/s

95th percentile per-packet one-way delay: 142.164 ms

Loss rate: 0.53%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-05-21 22:00:20

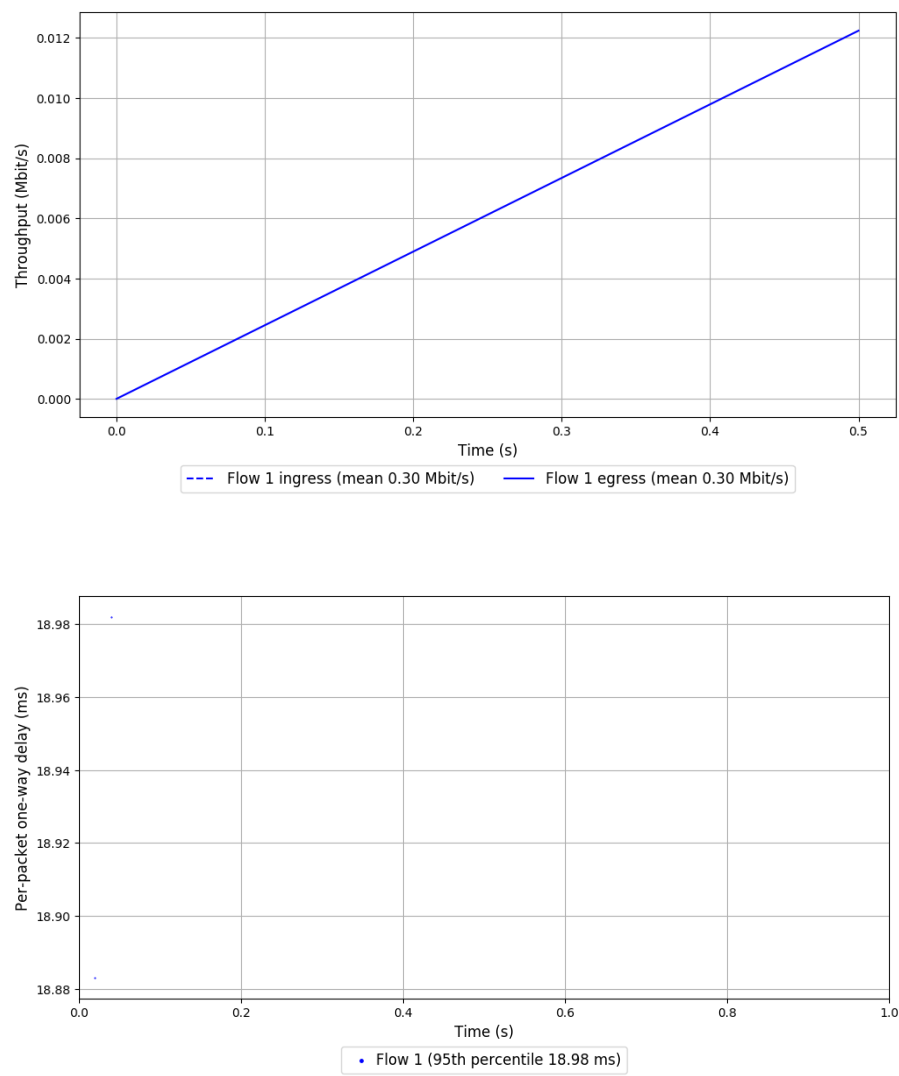
End at: 2018-05-21 22:00:50

Local clock offset: -2.054 ms

Remote clock offset: 2.023 ms



Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-05-21 22:24:22

End at: 2018-05-21 22:24:52

Local clock offset: -1.309 ms

Remote clock offset: 1.626 ms

# Below is generated by plot.py at 2018-05-22 03:00:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.77 Mbit/s

95th percentile per-packet one-way delay: 18.919 ms

Loss rate: 0.00%

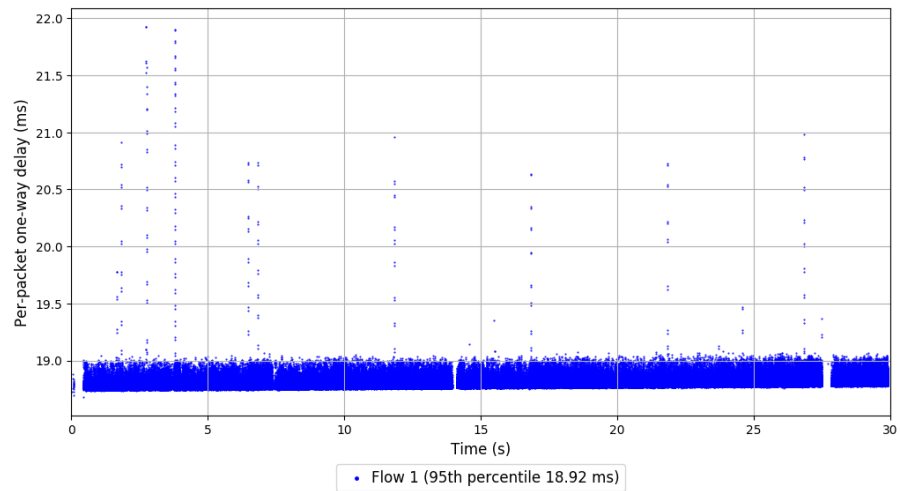
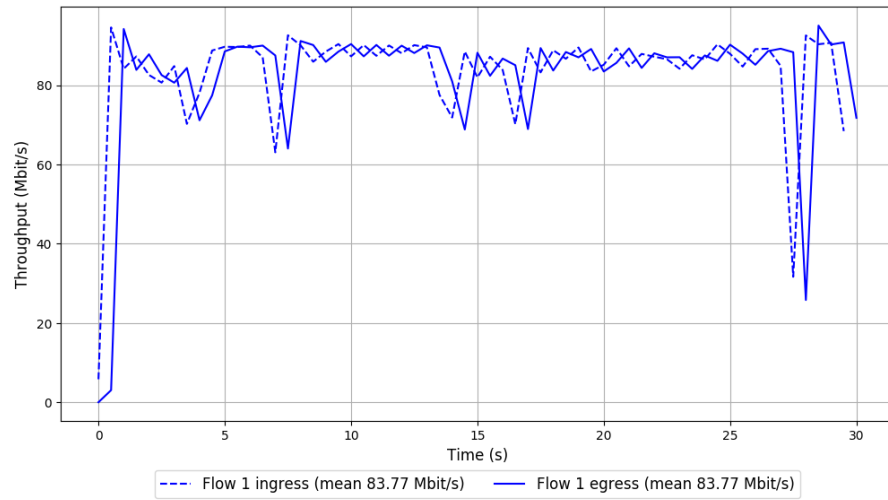
-- Flow 1:

Average throughput: 83.77 Mbit/s

95th percentile per-packet one-way delay: 18.919 ms

Loss rate: 0.00%

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



Run 3: Statistics of QUIC Cubic

Start at: 2018-05-21 22:48:10

End at: 2018-05-21 22:48:40

Local clock offset: 1.696 ms

Remote clock offset: 1.254 ms

# Below is generated by plot.py at 2018-05-22 03:00:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.39 Mbit/s

95th percentile per-packet one-way delay: 18.854 ms

Loss rate: 0.01%

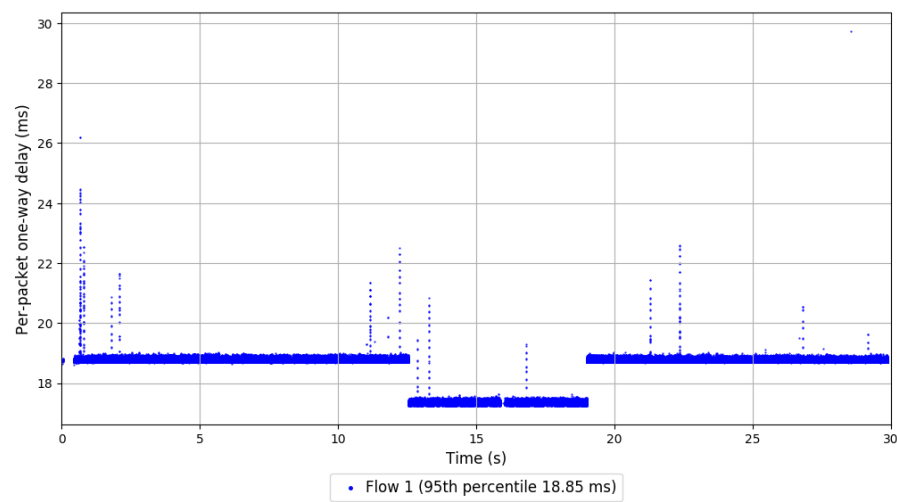
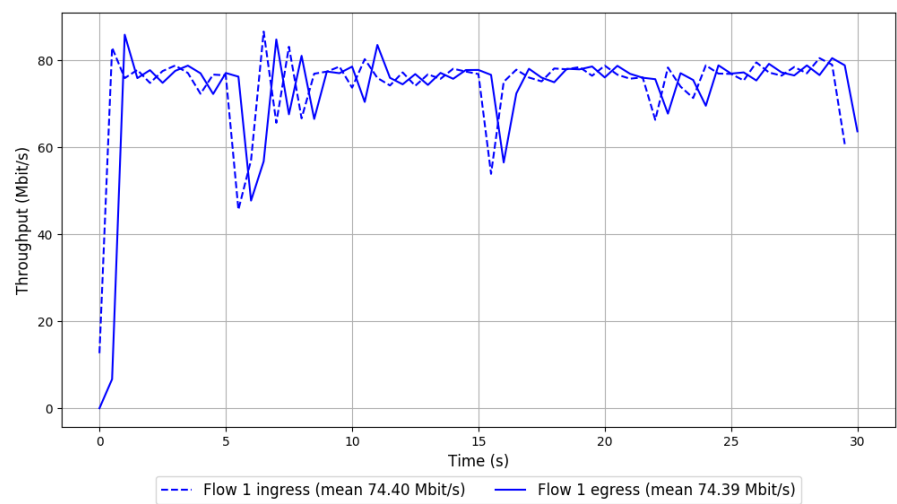
-- Flow 1:

Average throughput: 74.39 Mbit/s

95th percentile per-packet one-way delay: 18.854 ms

Loss rate: 0.01%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-05-21 23:12:11

End at: 2018-05-21 23:12:42

Local clock offset: -0.059 ms

Remote clock offset: 0.334 ms

# Below is generated by plot.py at 2018-05-22 03:00:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 81.58 Mbit/s

95th percentile per-packet one-way delay: 18.772 ms

Loss rate: 0.00%

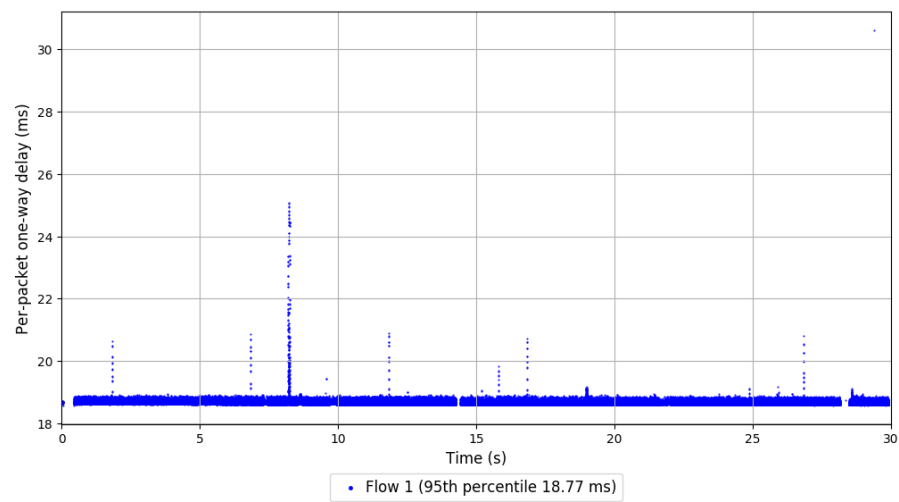
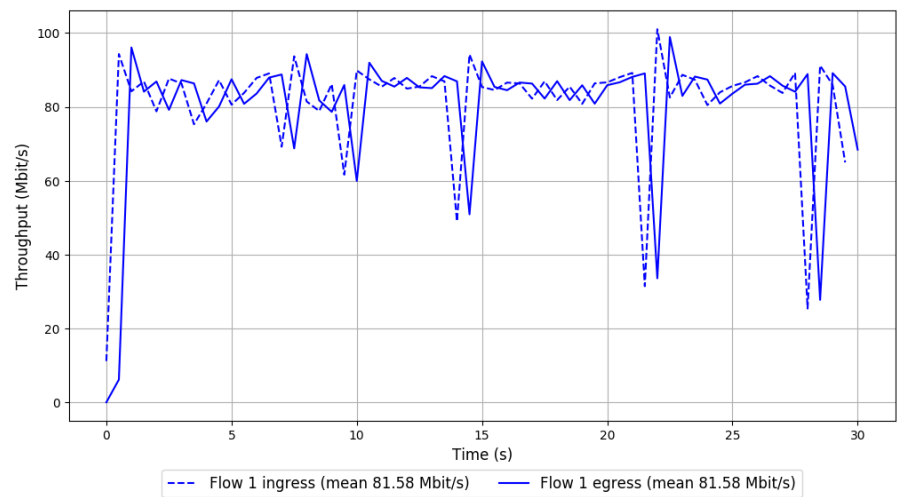
-- Flow 1:

Average throughput: 81.58 Mbit/s

95th percentile per-packet one-way delay: 18.772 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-05-21 23:36:02

End at: 2018-05-21 23:36:32

Local clock offset: -0.305 ms

Remote clock offset: 0.111 ms

# Below is generated by plot.py at 2018-05-22 03:00:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 76.42 Mbit/s

95th percentile per-packet one-way delay: 18.894 ms

Loss rate: 0.00%

-- Flow 1:

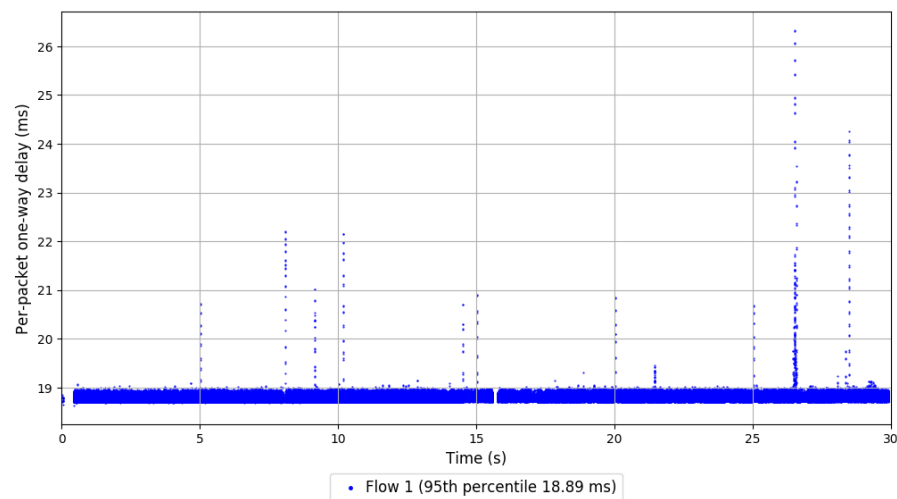
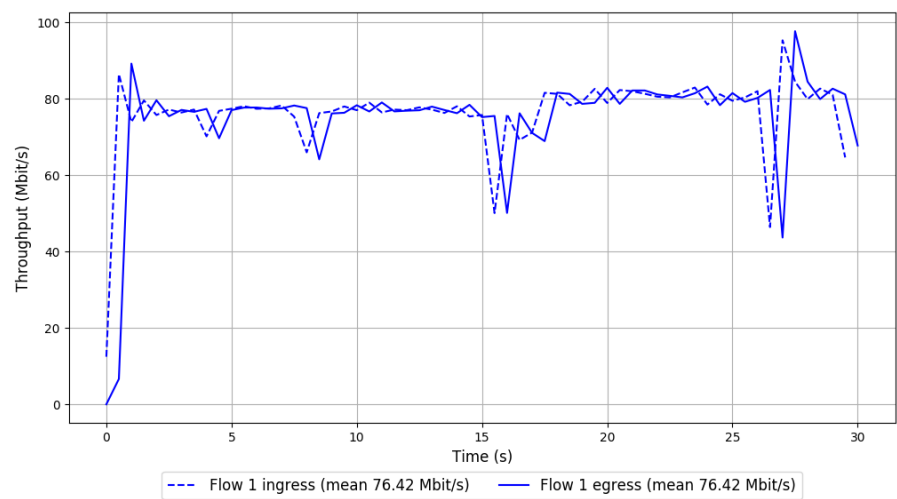
Average throughput: 76.42 Mbit/s

95th percentile per-packet one-way delay: 18.894 ms

Loss rate: 0.00%



Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-05-22 00:00:06

End at: 2018-05-22 00:00:37

Local clock offset: -0.216 ms

Remote clock offset: 0.042 ms

# Below is generated by plot.py at 2018-05-22 03:00:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 78.99 Mbit/s

95th percentile per-packet one-way delay: 17.419 ms

Loss rate: 0.00%

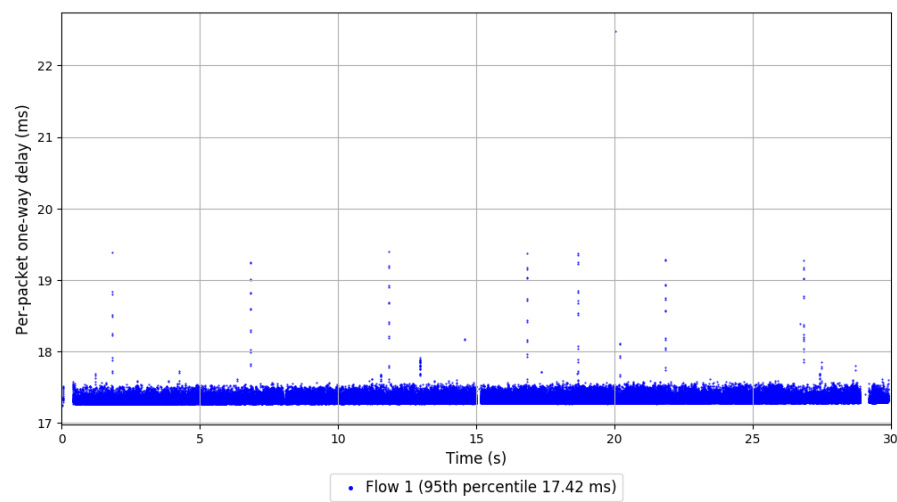
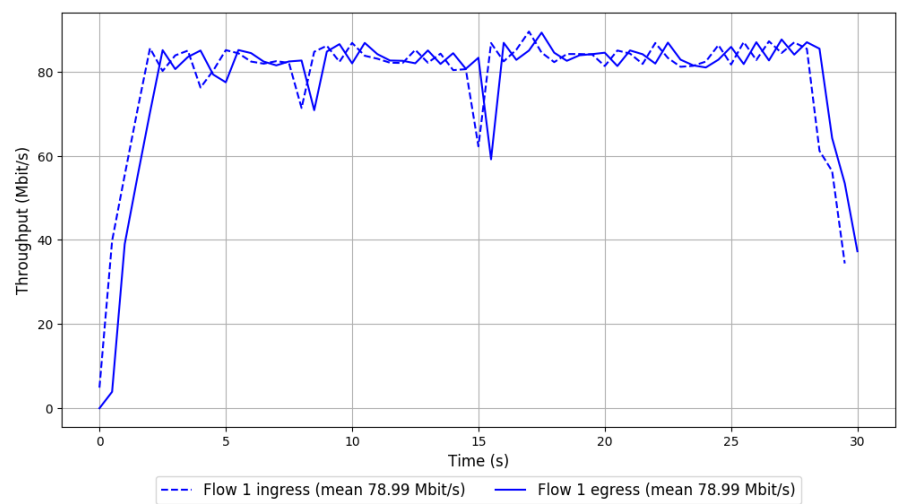
-- Flow 1:

Average throughput: 78.99 Mbit/s

95th percentile per-packet one-way delay: 17.419 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-05-22 00:23:50

End at: 2018-05-22 00:24:20

Local clock offset: 0.161 ms

Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2018-05-22 03:00:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.45 Mbit/s

95th percentile per-packet one-way delay: 18.745 ms

Loss rate: 0.00%

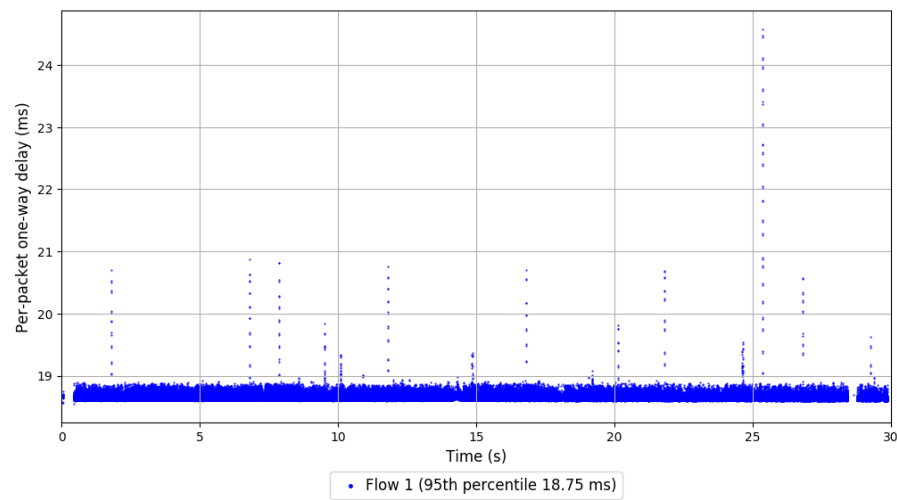
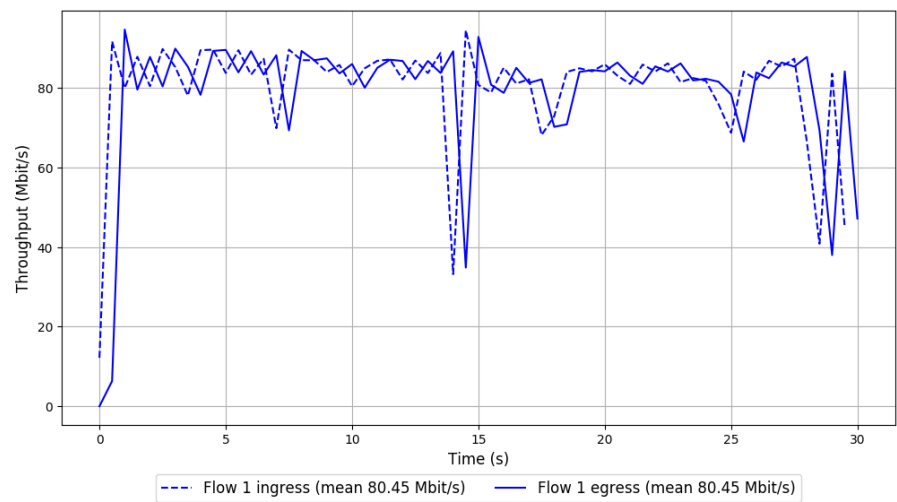
-- Flow 1:

Average throughput: 80.45 Mbit/s

95th percentile per-packet one-way delay: 18.745 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-05-22 00:47:36

End at: 2018-05-22 00:48:06

Local clock offset: 0.113 ms

Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2018-05-22 03:00:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 78.72 Mbit/s

95th percentile per-packet one-way delay: 18.888 ms

Loss rate: 0.00%

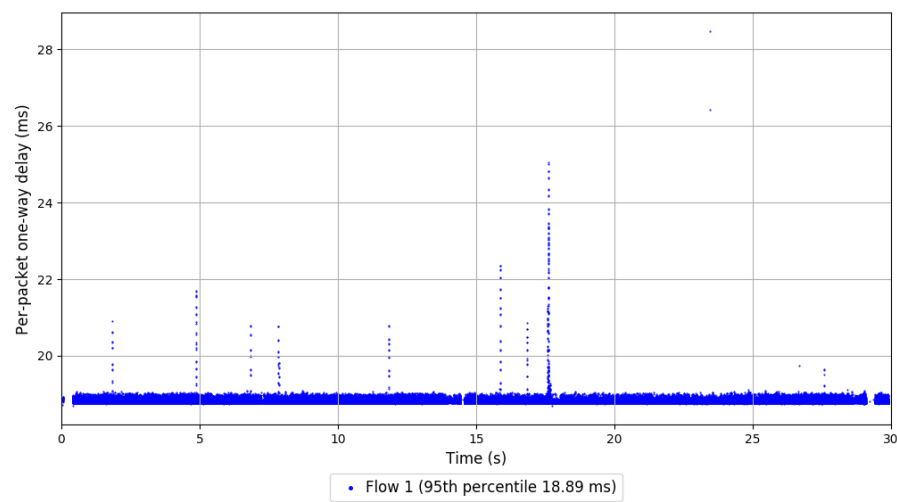
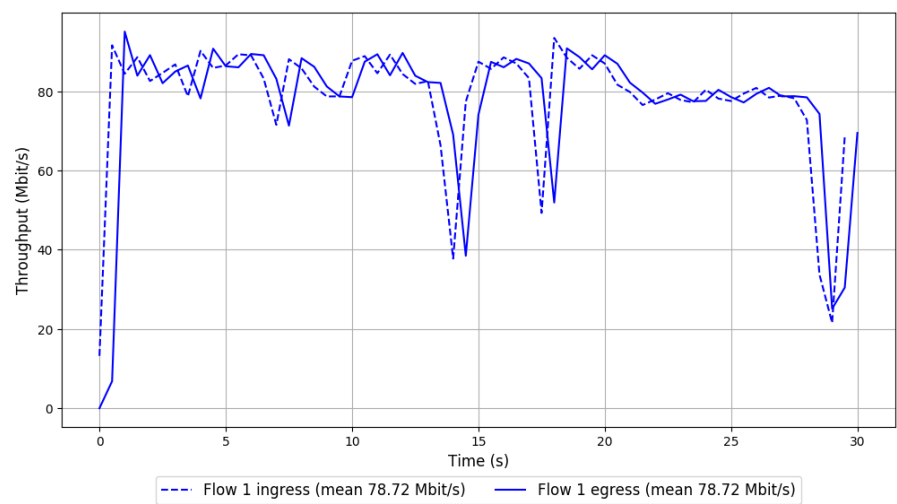
-- Flow 1:

Average throughput: 78.72 Mbit/s

95th percentile per-packet one-way delay: 18.888 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



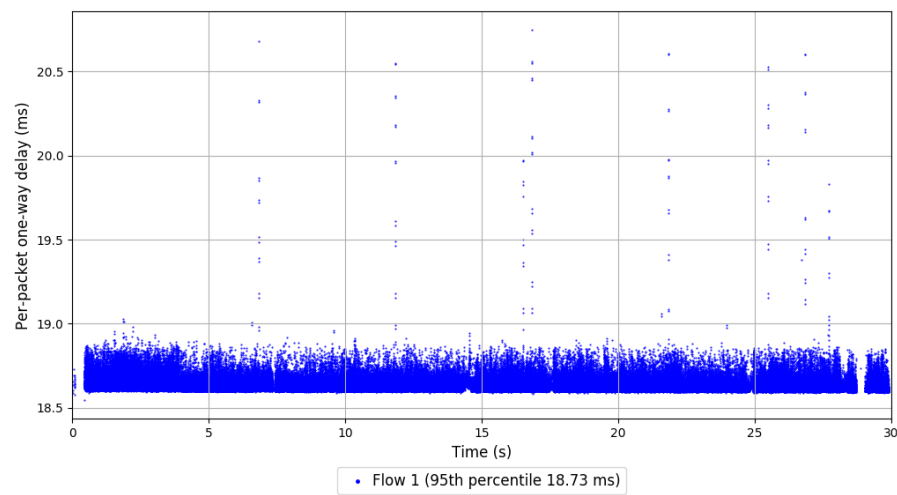
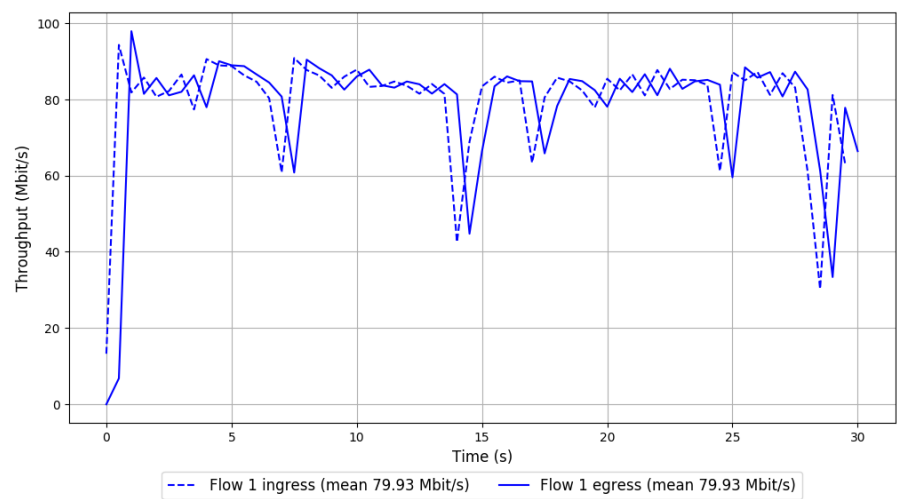
Run 9: Statistics of QUIC Cubic

Start at: 2018-05-22 01:11:11  
End at: 2018-05-22 01:11:41  
Local clock offset: 0.108 ms  
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2018-05-22 03:00:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 79.93 Mbit/s  
95th percentile per-packet one-way delay: 18.728 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 79.93 Mbit/s  
95th percentile per-packet one-way delay: 18.728 ms  
Loss rate: 0.00%



Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-05-22 01:34:47

End at: 2018-05-22 01:35:17

Local clock offset: 0.143 ms

Remote clock offset: 0.197 ms

# Below is generated by plot.py at 2018-05-22 03:00:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.81 Mbit/s

95th percentile per-packet one-way delay: 18.802 ms

Loss rate: 0.00%

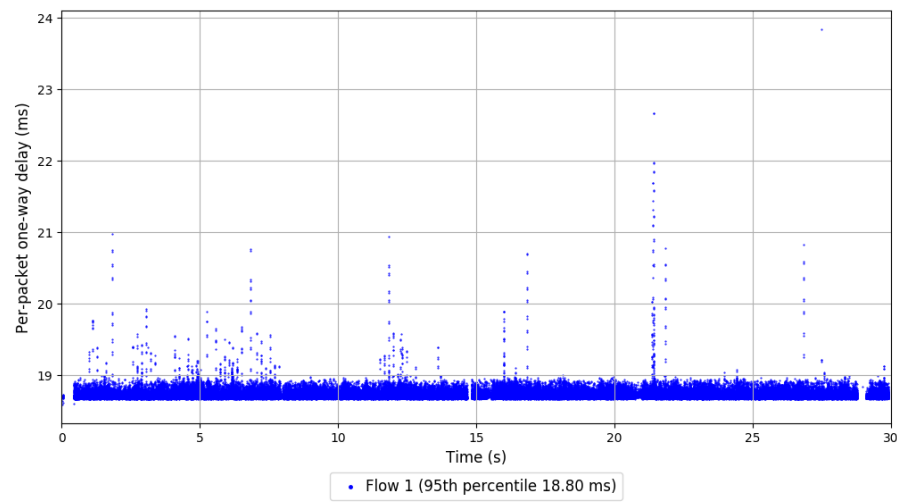
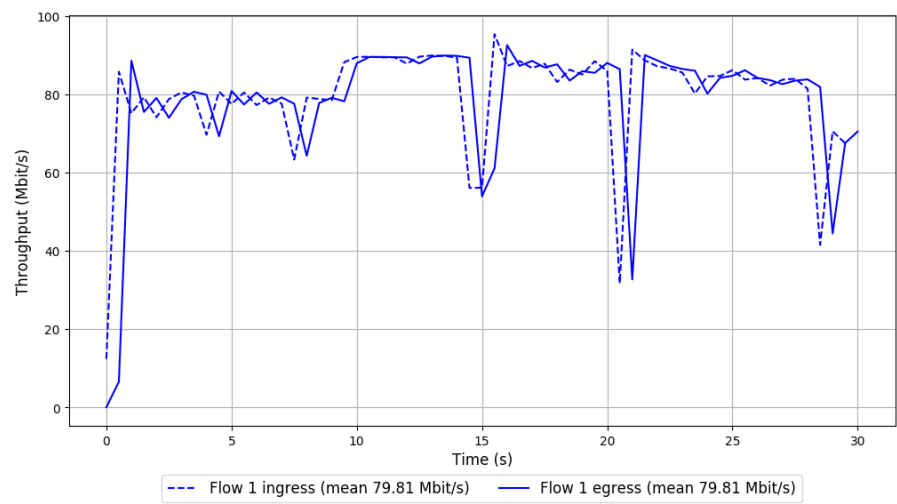
-- Flow 1:

Average throughput: 79.81 Mbit/s

95th percentile per-packet one-way delay: 18.802 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

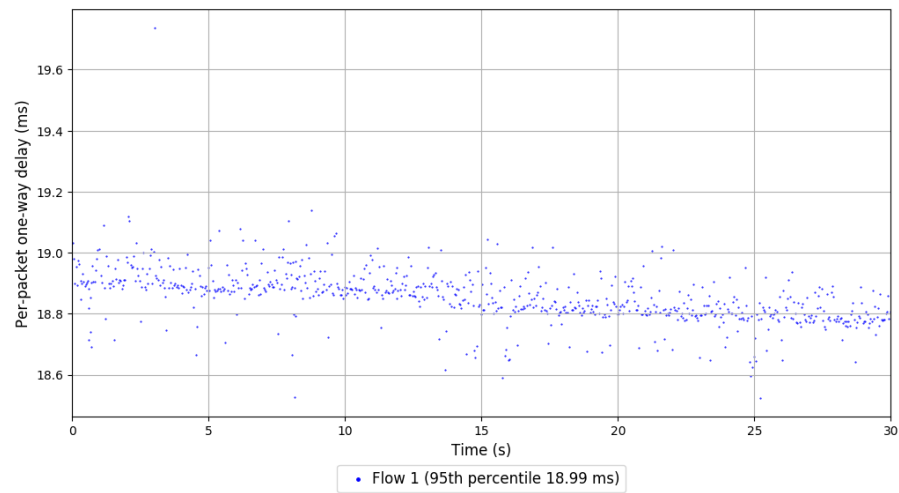
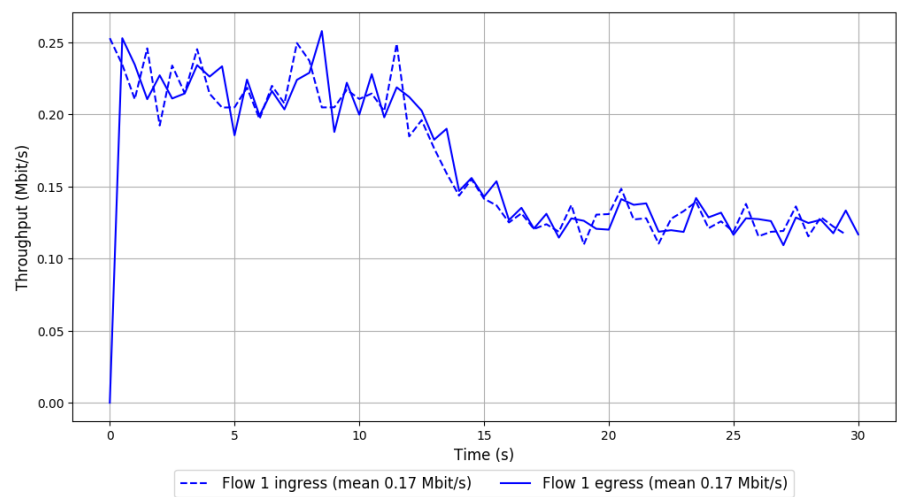


```
Run 1: Statistics of SCReAM

Start at: 2018-05-21 21:41:00
End at: 2018-05-21 21:41:30
Local clock offset: -1.461 ms
Remote clock offset: 4.789 ms

# Below is generated by plot.py at 2018-05-22 03:00:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 18.990 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 18.990 ms
Loss rate: 0.19%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-05-21 22:04:57

End at: 2018-05-21 22:05:27

Local clock offset: -1.39 ms

Remote clock offset: 2.135 ms

# Below is generated by plot.py at 2018-05-22 03:00:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.752 ms

Loss rate: 0.00%

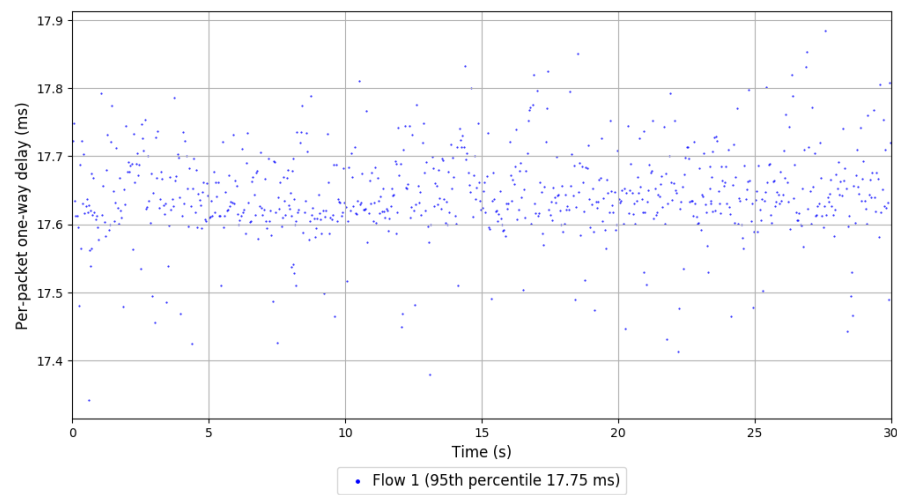
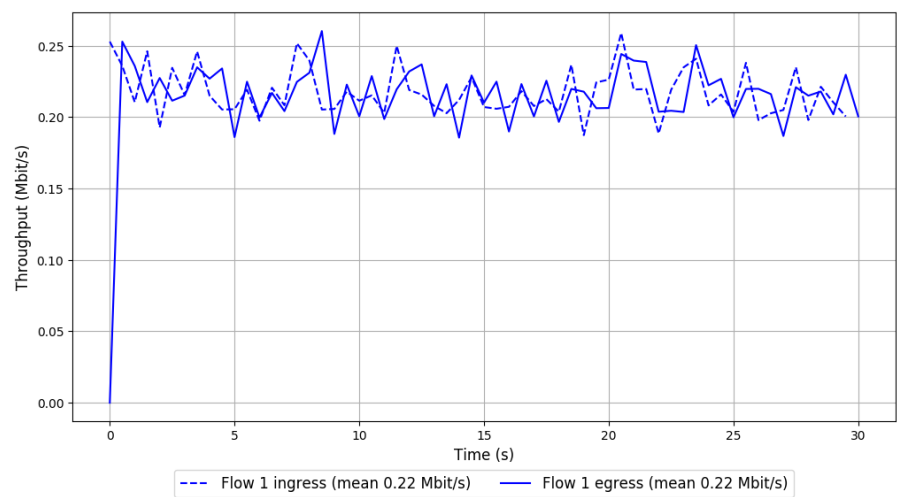
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.752 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-05-21 22:28:53

End at: 2018-05-21 22:29:23

Local clock offset: -0.629 ms

Remote clock offset: 1.269 ms

# Below is generated by plot.py at 2018-05-22 03:00:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.475 ms

Loss rate: 0.00%

-- Flow 1:

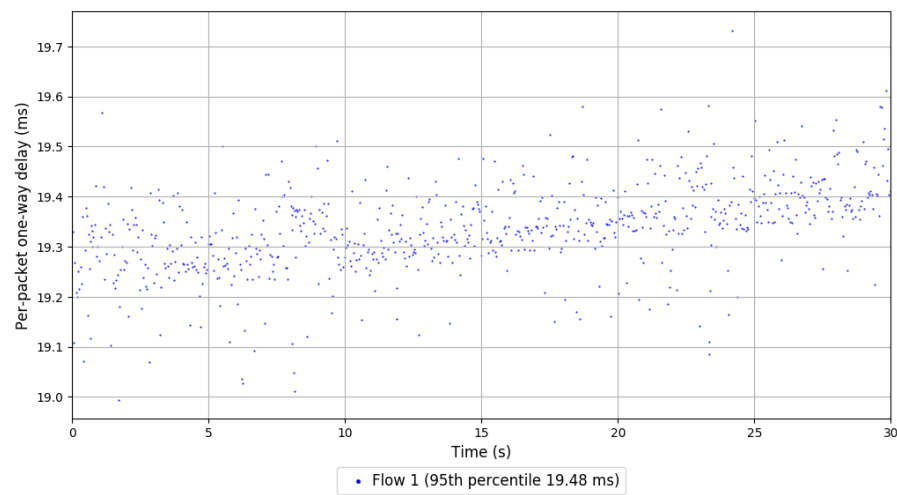
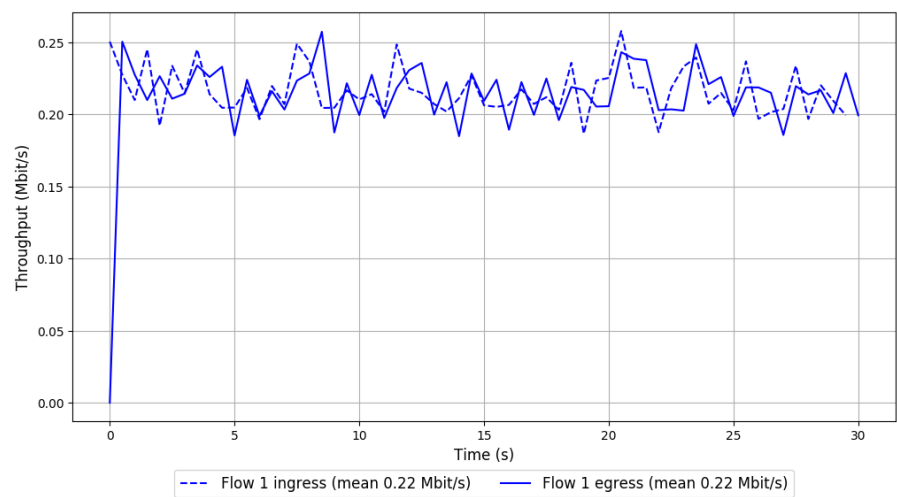
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.475 ms

Loss rate: 0.00%



Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-05-21 22:52:44

End at: 2018-05-21 22:53:14

Local clock offset: 1.825 ms

Remote clock offset: 1.355 ms

# Below is generated by plot.py at 2018-05-22 03:00:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.272 ms

Loss rate: 0.00%

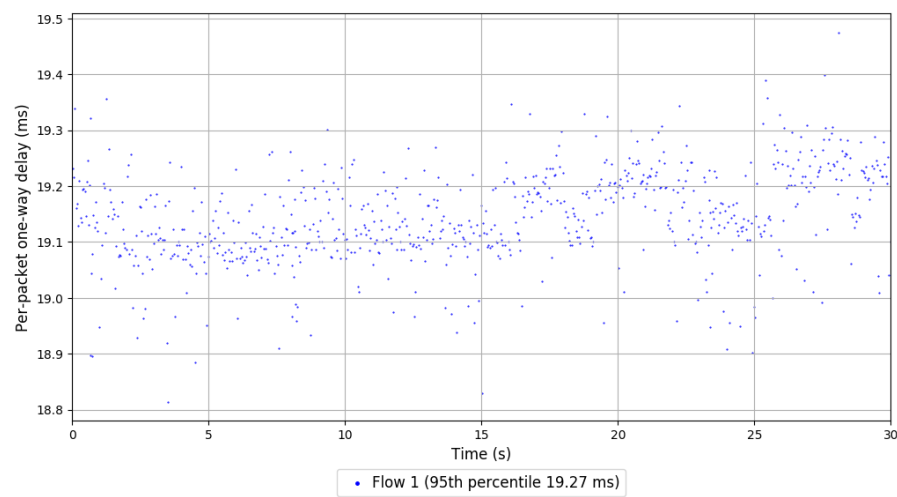
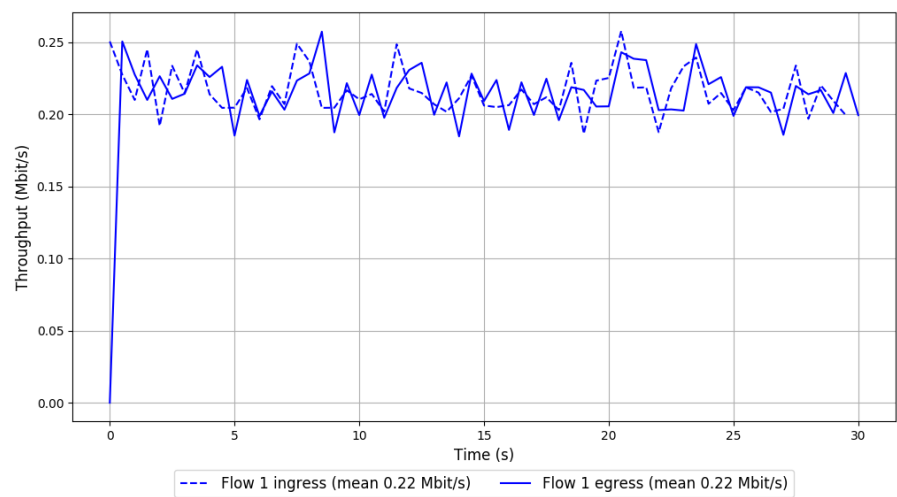
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.272 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-05-21 23:16:43

End at: 2018-05-21 23:17:13

Local clock offset: -0.317 ms

Remote clock offset: 0.33 ms

# Below is generated by plot.py at 2018-05-22 03:00:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.066 ms

Loss rate: 0.00%

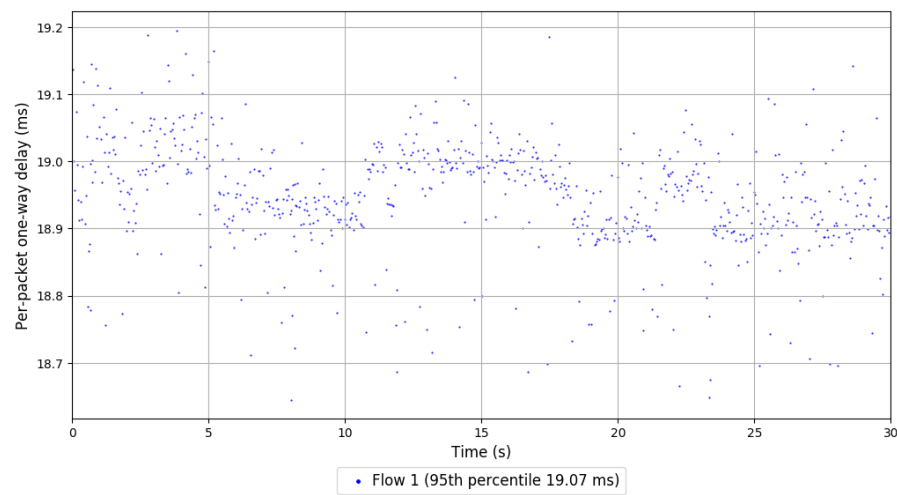
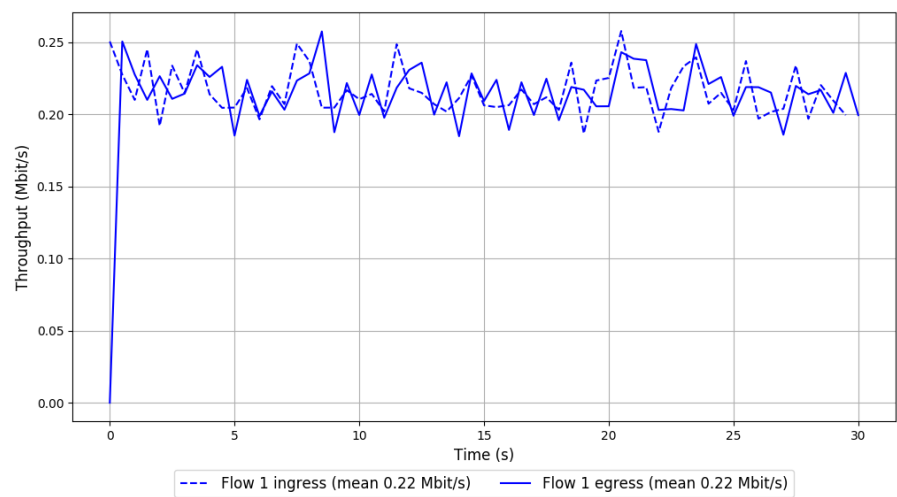
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.066 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-05-21 23:40:33

End at: 2018-05-21 23:41:03

Local clock offset: -0.241 ms

Remote clock offset: 0.118 ms

# Below is generated by plot.py at 2018-05-22 03:00:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.158 ms

Loss rate: 0.00%

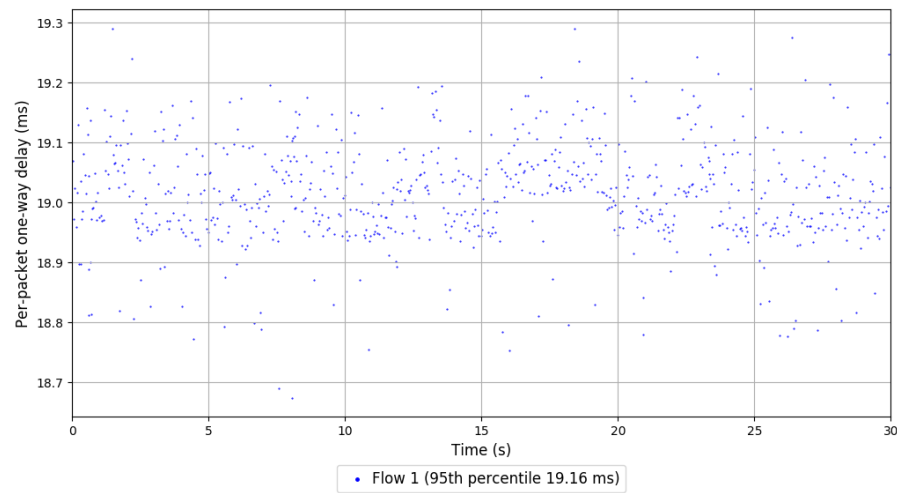
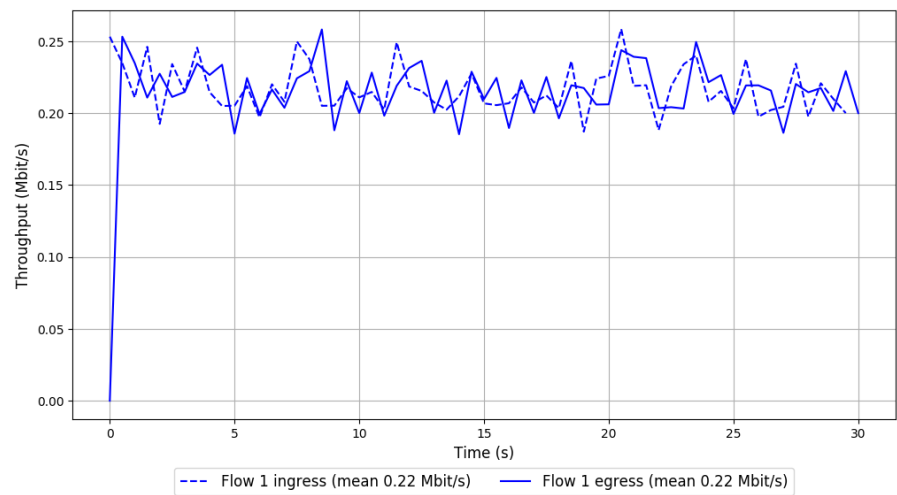
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.158 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-05-22 00:04:36

End at: 2018-05-22 00:05:06

Local clock offset: -0.048 ms

Remote clock offset: 0.082 ms

# Below is generated by plot.py at 2018-05-22 03:00:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.217 ms

Loss rate: 0.00%

-- Flow 1:

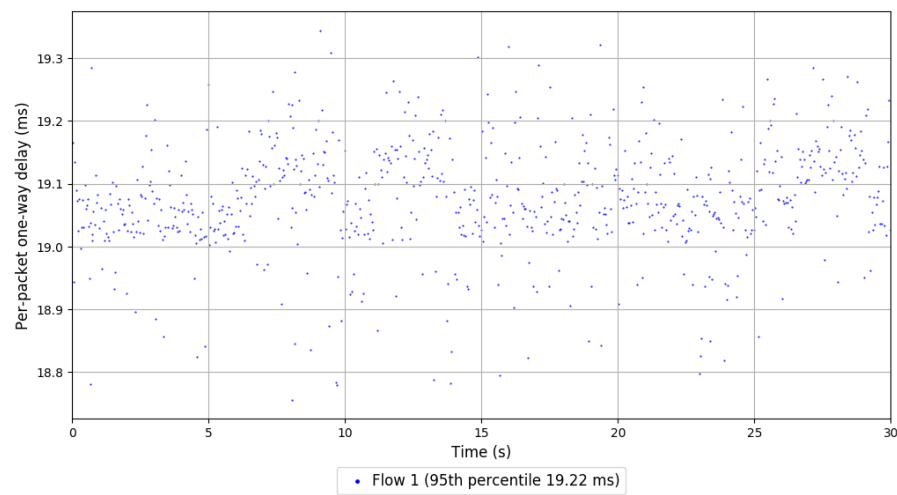
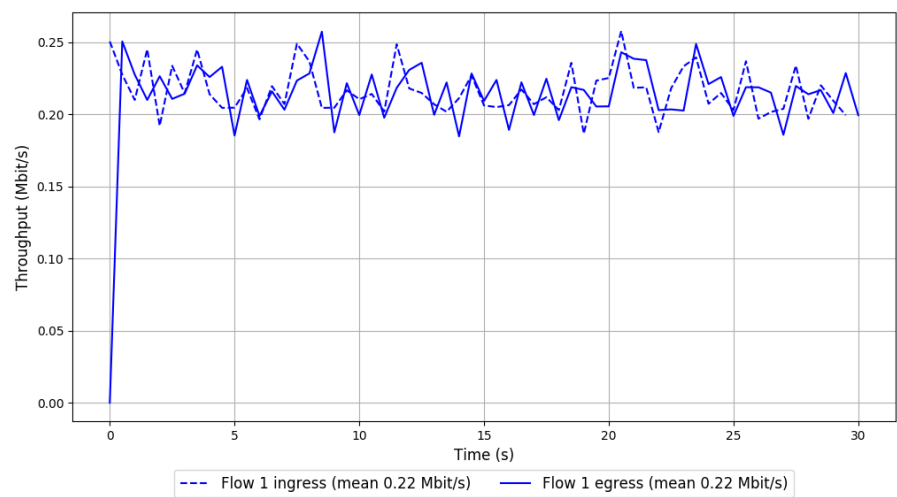
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.217 ms

Loss rate: 0.00%



Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-05-22 00:28:21

End at: 2018-05-22 00:28:51

Local clock offset: 0.057 ms

Remote clock offset: 0.038 ms

# Below is generated by plot.py at 2018-05-22 03:00:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.192 ms

Loss rate: 0.00%

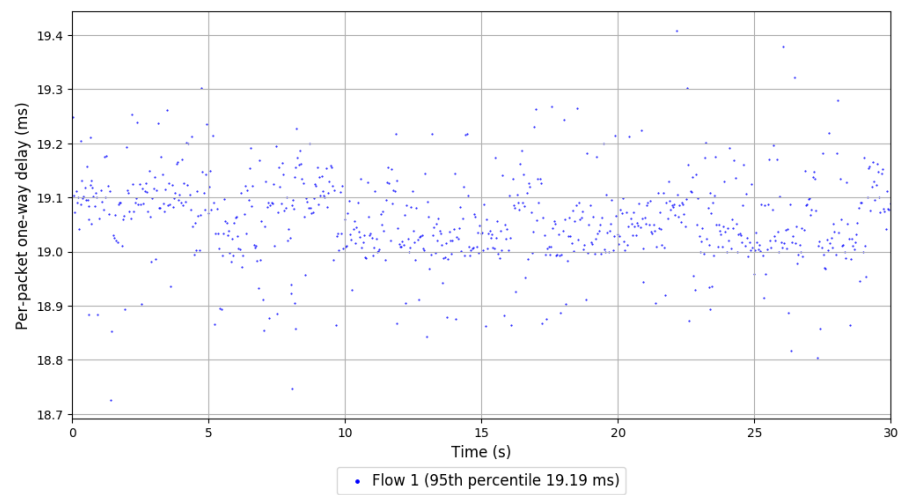
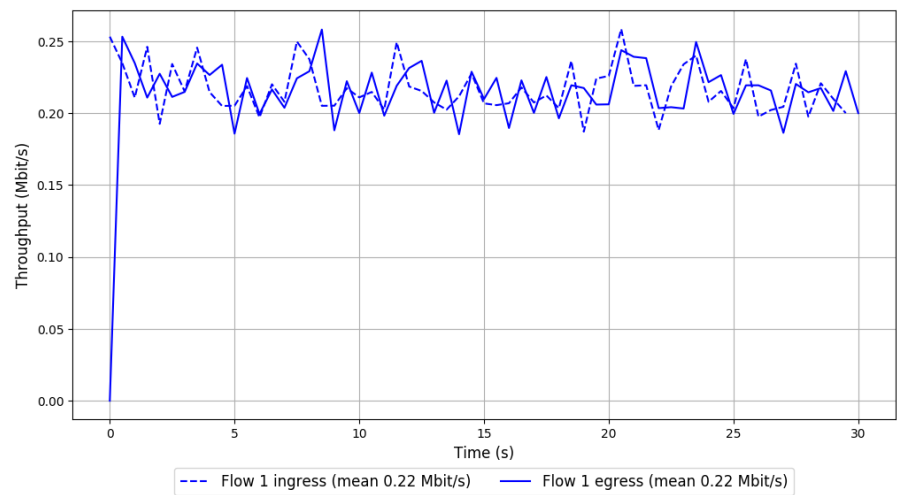
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.192 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-05-22 00:52:04

End at: 2018-05-22 00:52:34

Local clock offset: 0.08 ms

Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2018-05-22 03:00:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.200 ms

Loss rate: 0.00%

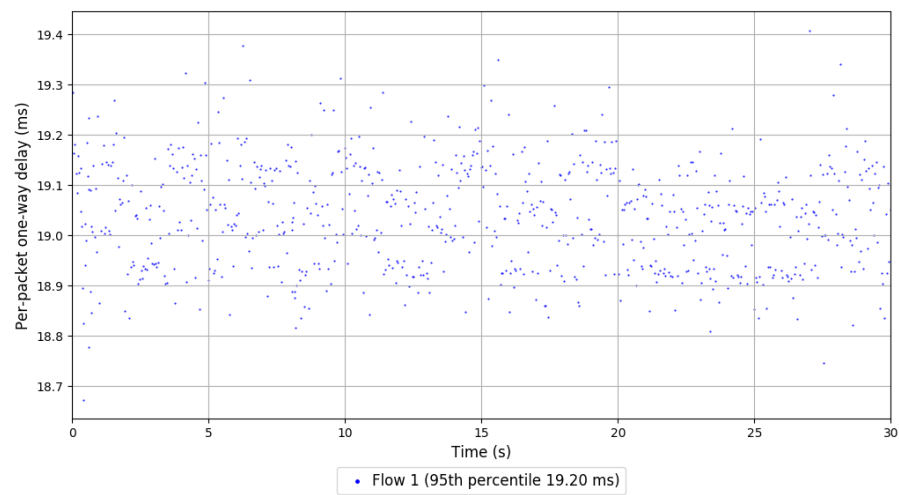
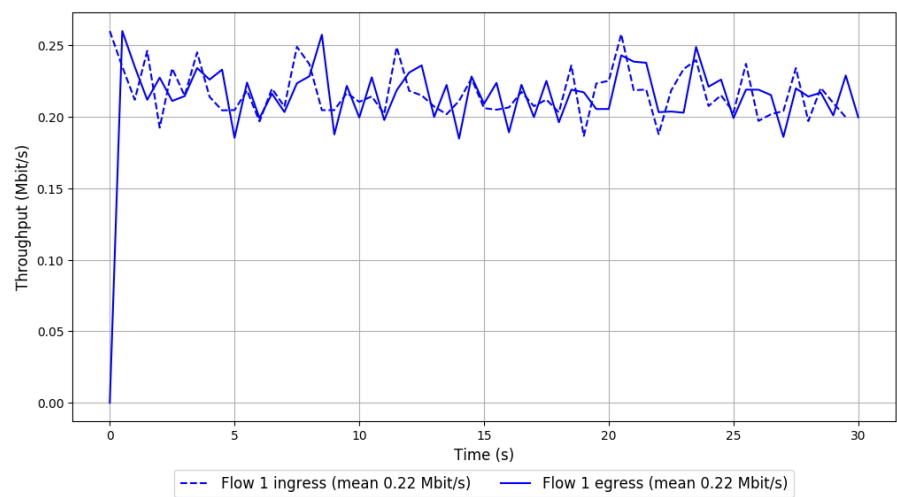
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.200 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-05-22 01:15:42

End at: 2018-05-22 01:16:12

Local clock offset: 0.068 ms

Remote clock offset: 0.082 ms

# Below is generated by plot.py at 2018-05-22 03:00:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.662 ms

Loss rate: 0.00%

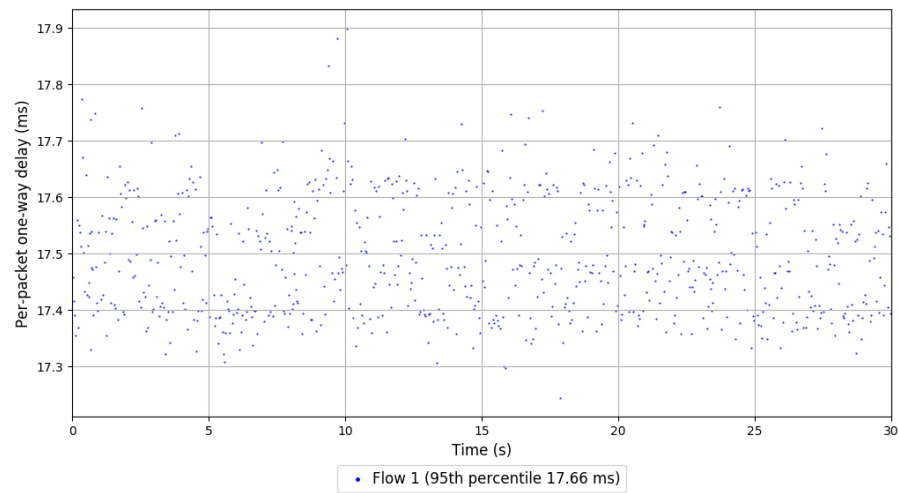
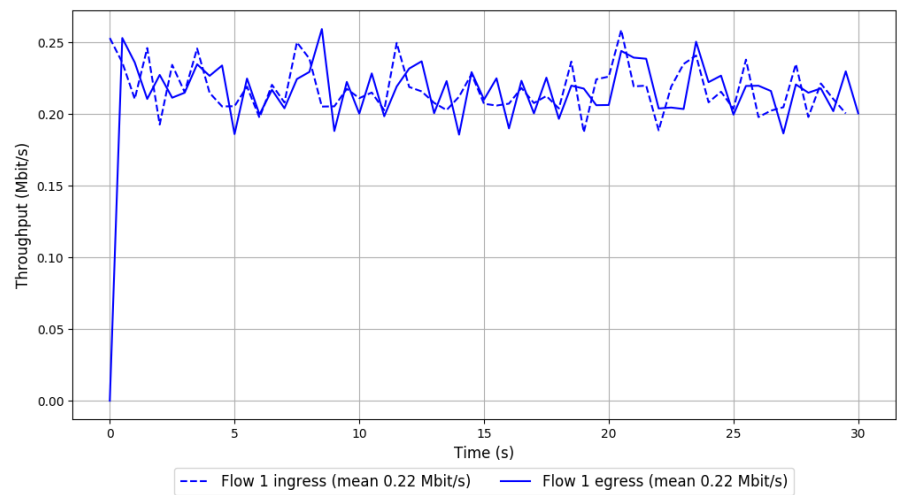
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.662 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



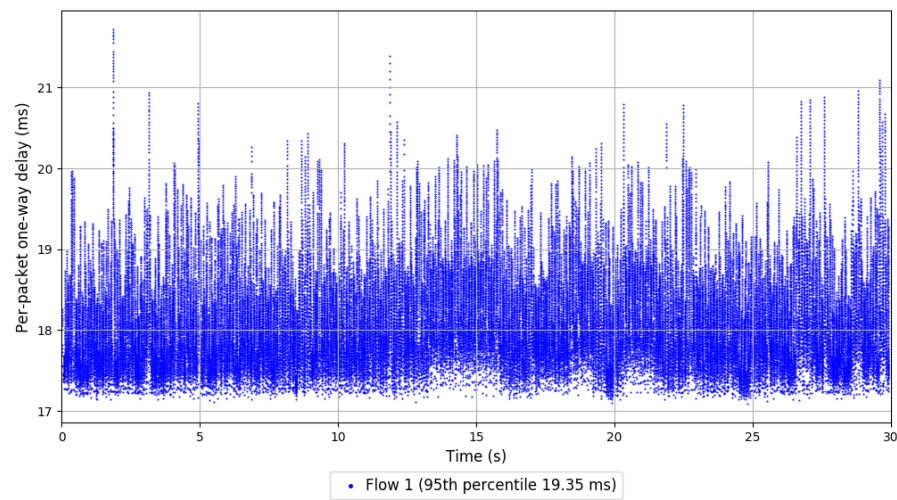
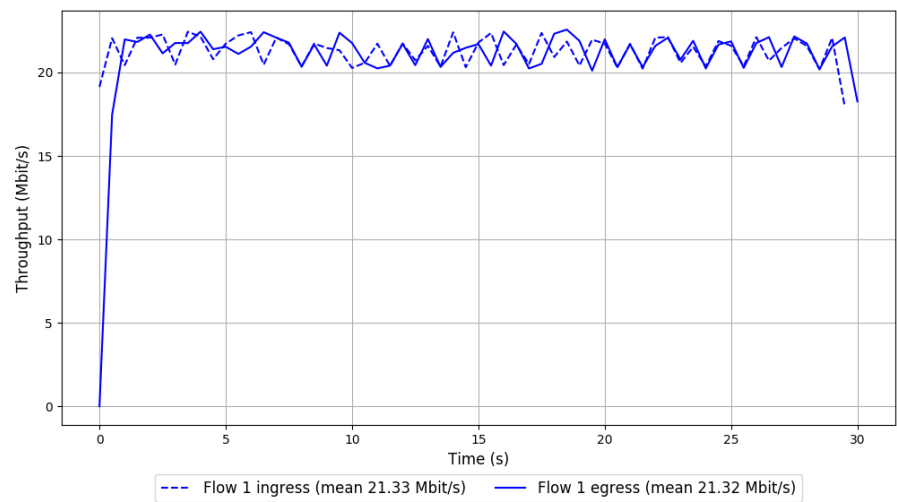
```
Run 1: Statistics of Sprout

Start at: 2018-05-21 21:52:51
End at: 2018-05-21 21:53:21
Local clock offset: -2.454 ms
Remote clock offset: 2.425 ms

# Below is generated by plot.py at 2018-05-22 03:00:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 21.32 Mbit/s
95th percentile per-packet one-way delay: 19.352 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 21.32 Mbit/s
95th percentile per-packet one-way delay: 19.352 ms
Loss rate: 0.01%
```



Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-05-21 22:16:51

End at: 2018-05-21 22:17:21

Local clock offset: -0.989 ms

Remote clock offset: 2.85 ms

# Below is generated by plot.py at 2018-05-22 03:00:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 20.89 Mbit/s

95th percentile per-packet one-way delay: 19.650 ms

Loss rate: 0.00%

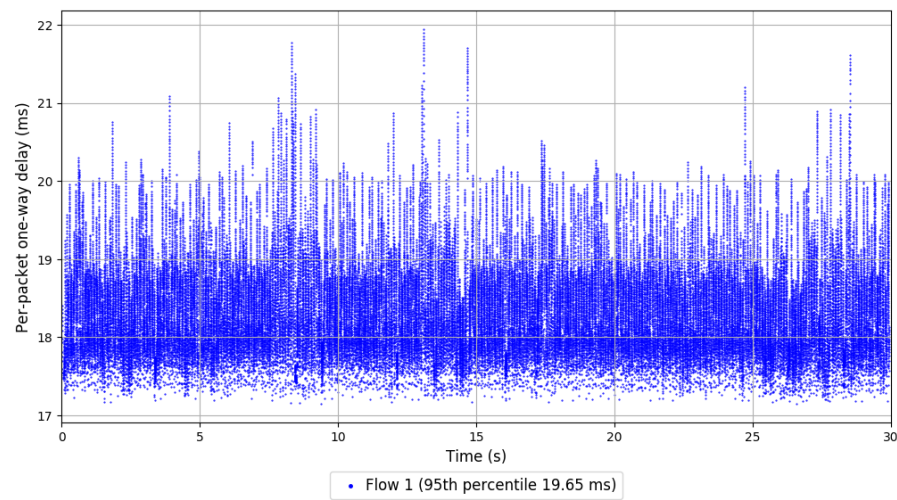
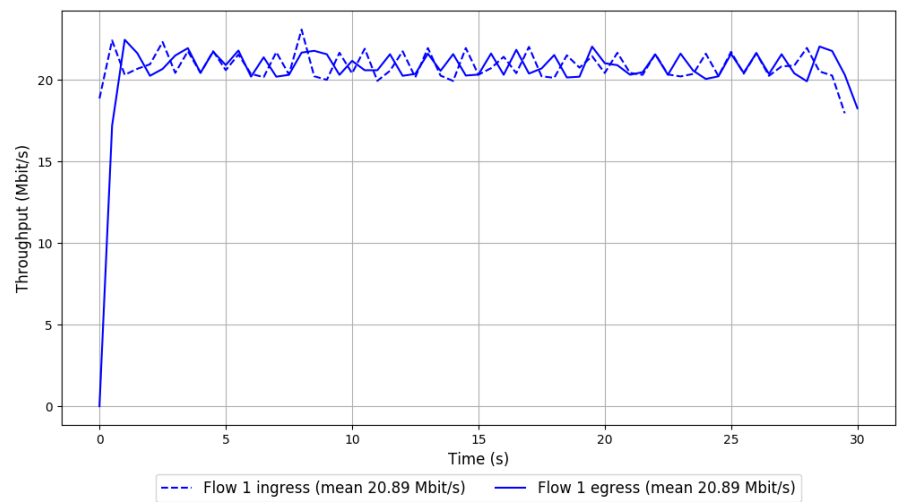
-- Flow 1:

Average throughput: 20.89 Mbit/s

95th percentile per-packet one-way delay: 19.650 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-05-21 22:40:41

End at: 2018-05-21 22:41:11

Local clock offset: 1.32 ms

Remote clock offset: 1.09 ms

# Below is generated by plot.py at 2018-05-22 03:00:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 20.38 Mbit/s

95th percentile per-packet one-way delay: 21.459 ms

Loss rate: 0.00%

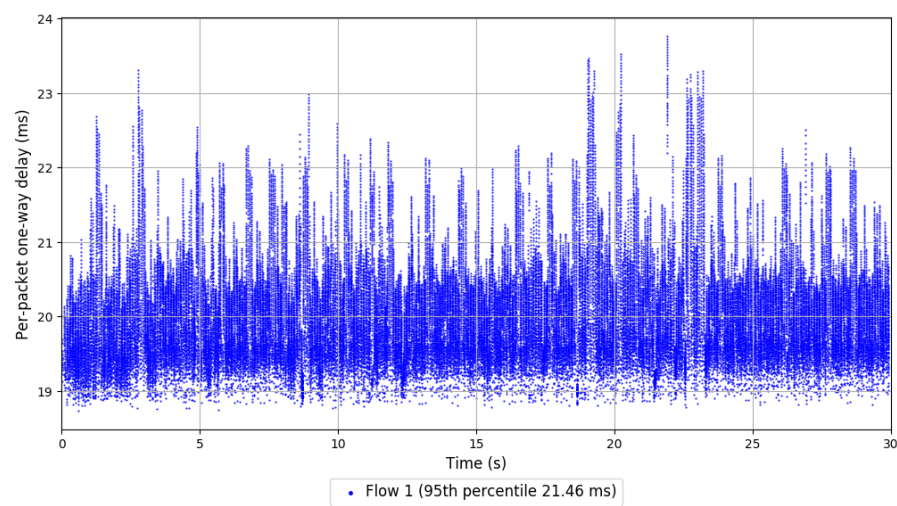
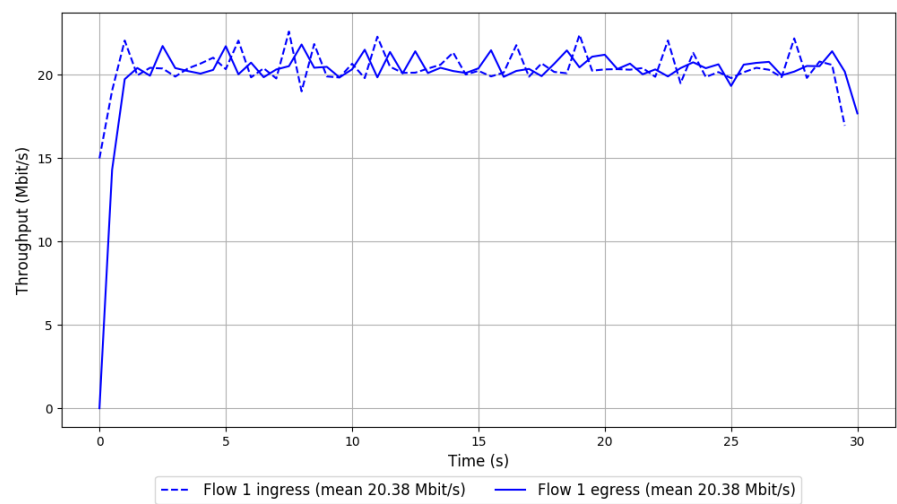
-- Flow 1:

Average throughput: 20.38 Mbit/s

95th percentile per-packet one-way delay: 21.459 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-05-21 23:04:30

End at: 2018-05-21 23:05:00

Local clock offset: 0.619 ms

Remote clock offset: 0.5 ms

# Below is generated by plot.py at 2018-05-22 03:00:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 20.14 Mbit/s

95th percentile per-packet one-way delay: 21.209 ms

Loss rate: 0.00%

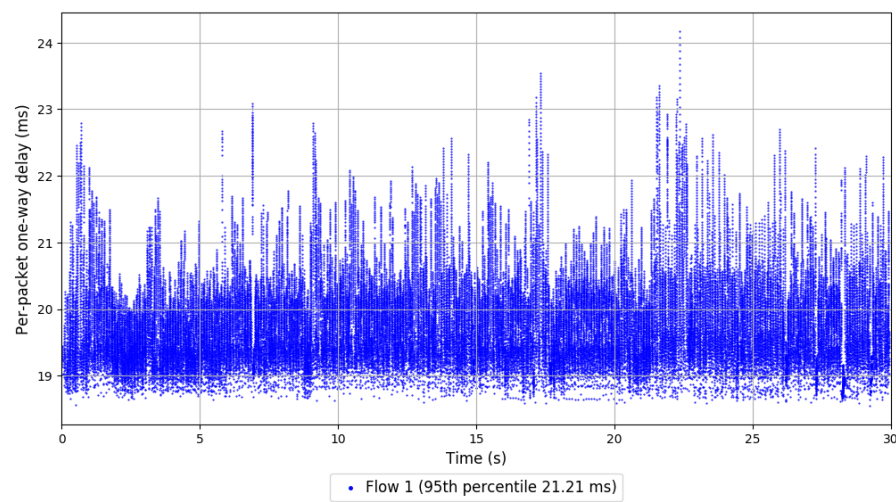
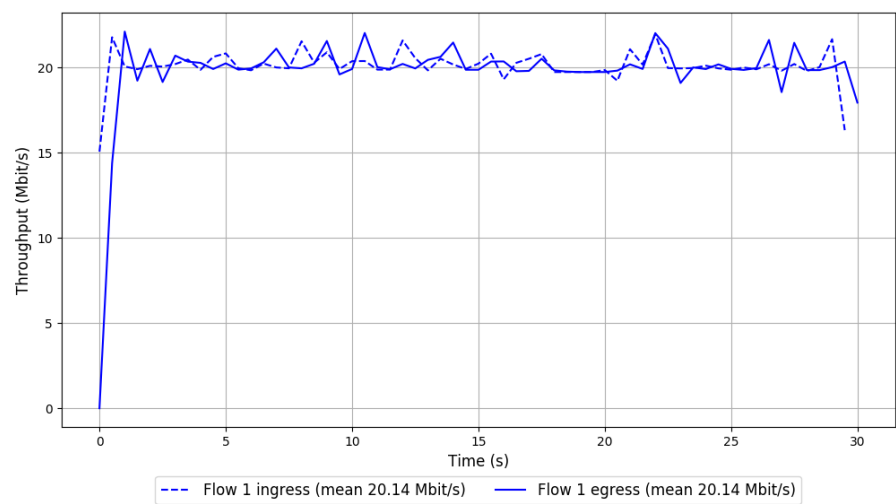
-- Flow 1:

Average throughput: 20.14 Mbit/s

95th percentile per-packet one-way delay: 21.209 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-05-21 23:28:32

End at: 2018-05-21 23:29:02

Local clock offset: -0.682 ms

Remote clock offset: 0.217 ms

# Below is generated by plot.py at 2018-05-22 03:00:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 20.20 Mbit/s

95th percentile per-packet one-way delay: 21.235 ms

Loss rate: 0.01%

-- Flow 1:

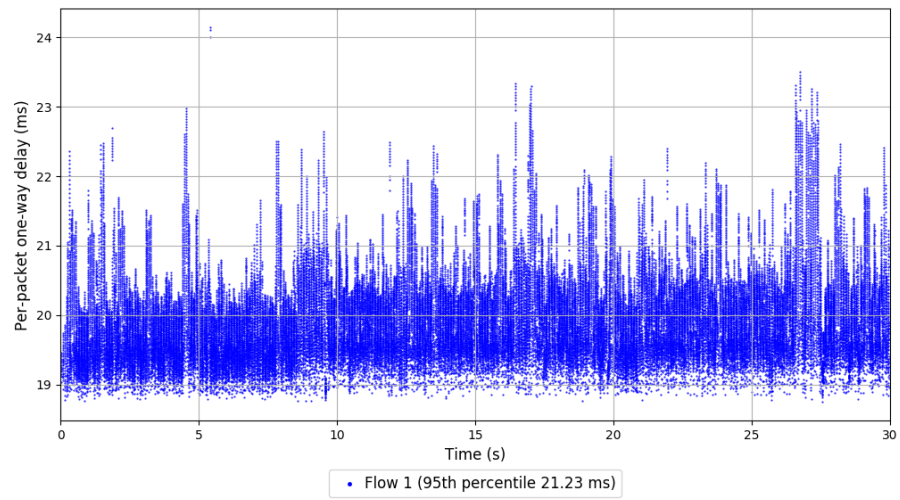
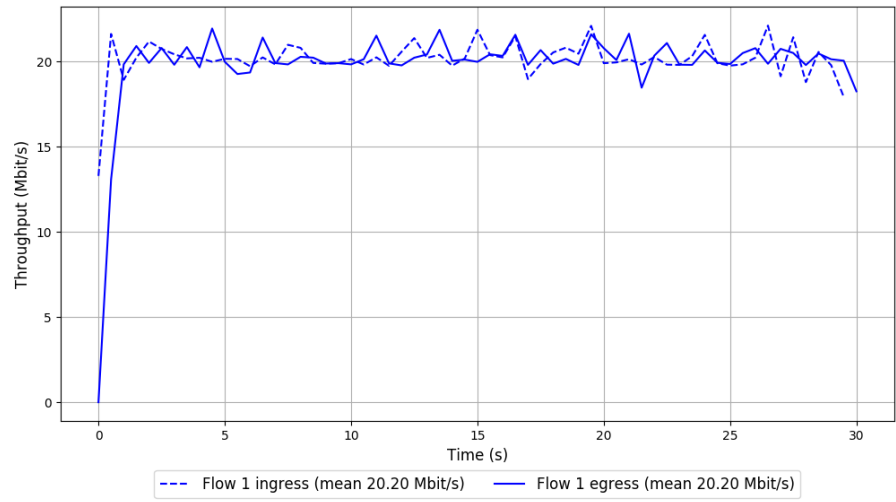
Average throughput: 20.20 Mbit/s

95th percentile per-packet one-way delay: 21.235 ms

Loss rate: 0.01%



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

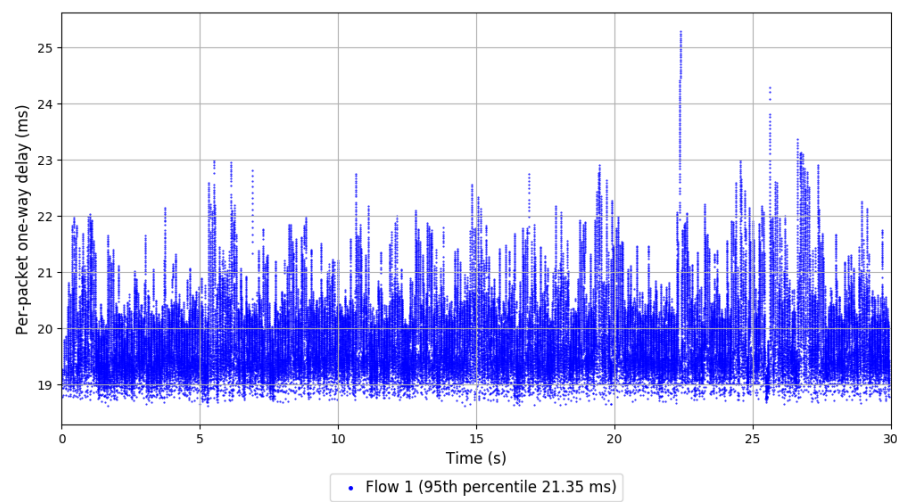
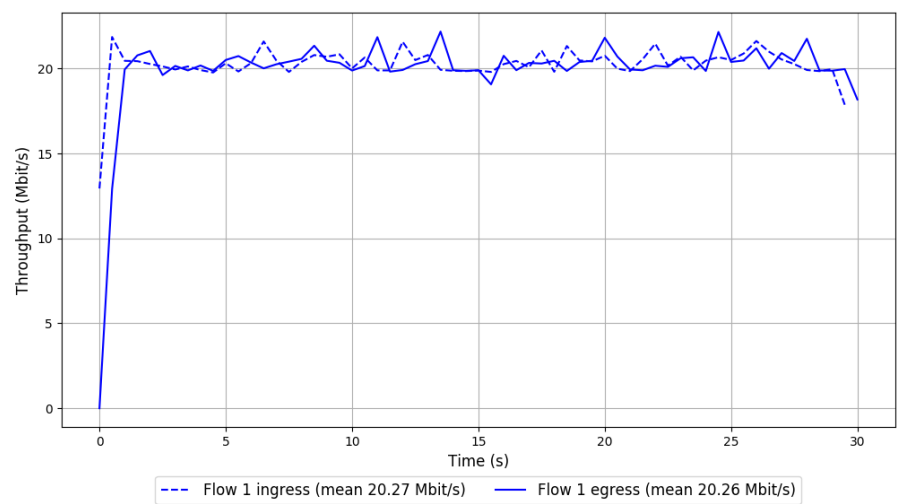


Run 6: Statistics of Sprout

Start at: 2018-05-21 23:52:29  
End at: 2018-05-21 23:52:59  
Local clock offset: -0.333 ms  
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2018-05-22 03:00:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 20.26 Mbit/s  
95th percentile per-packet one-way delay: 21.347 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 20.26 Mbit/s  
95th percentile per-packet one-way delay: 21.347 ms  
Loss rate: 0.03%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-05-22 00:16:21

End at: 2018-05-22 00:16:51

Local clock offset: 0.184 ms

Remote clock offset: 0.042 ms

# Below is generated by plot.py at 2018-05-22 03:00:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 20.28 Mbit/s

95th percentile per-packet one-way delay: 21.326 ms

Loss rate: 0.00%

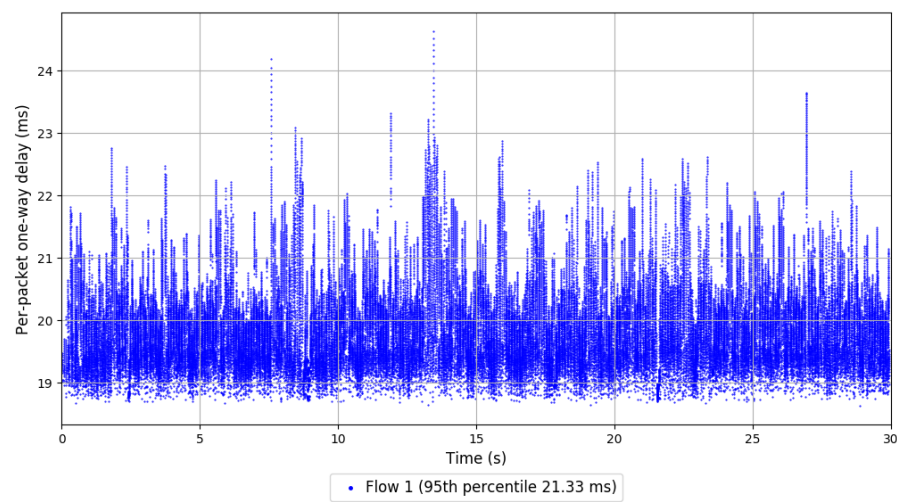
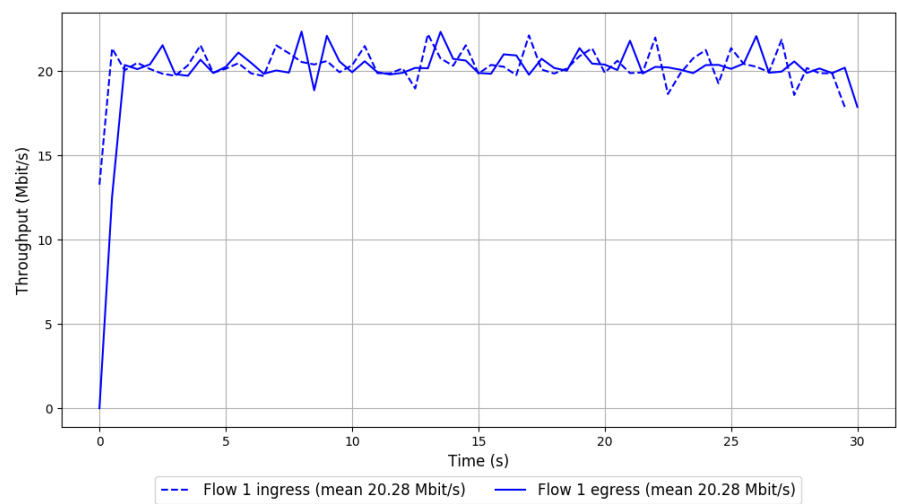
-- Flow 1:

Average throughput: 20.28 Mbit/s

95th percentile per-packet one-way delay: 21.326 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-05-22 00:40:07

End at: 2018-05-22 00:40:37

Local clock offset: 0.13 ms

Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2018-05-22 03:00:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 20.18 Mbit/s

95th percentile per-packet one-way delay: 21.503 ms

Loss rate: 0.04%

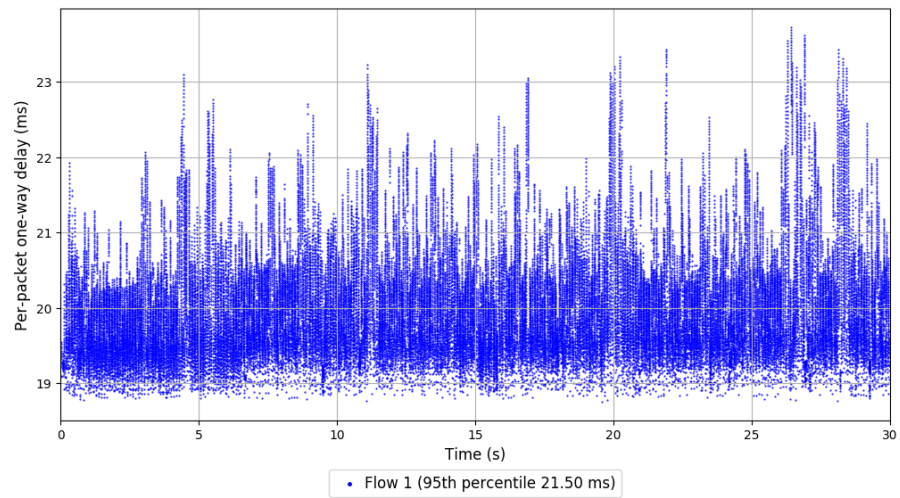
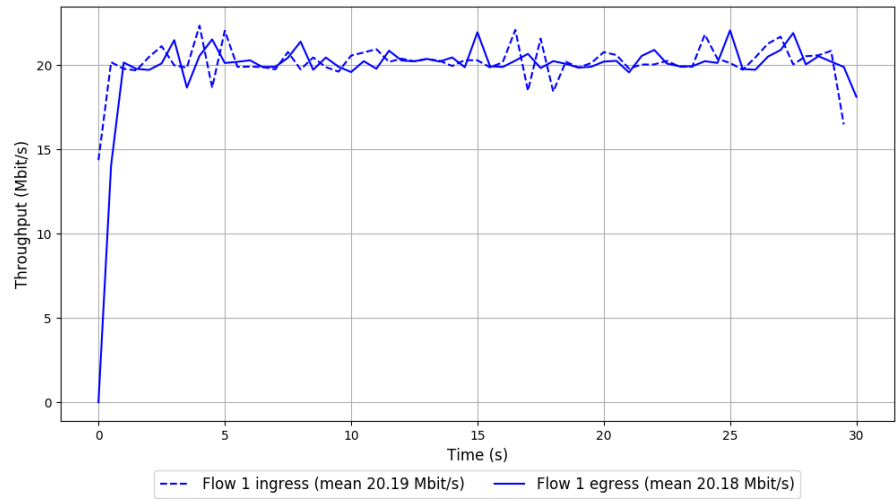
-- Flow 1:

Average throughput: 20.18 Mbit/s

95th percentile per-packet one-way delay: 21.503 ms

Loss rate: 0.04%

# Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-05-22 01:03:46

End at: 2018-05-22 01:04:16

Local clock offset: 0.138 ms

Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2018-05-22 03:00:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 21.28 Mbit/s

95th percentile per-packet one-way delay: 20.094 ms

Loss rate: 0.05%

-- Flow 1:

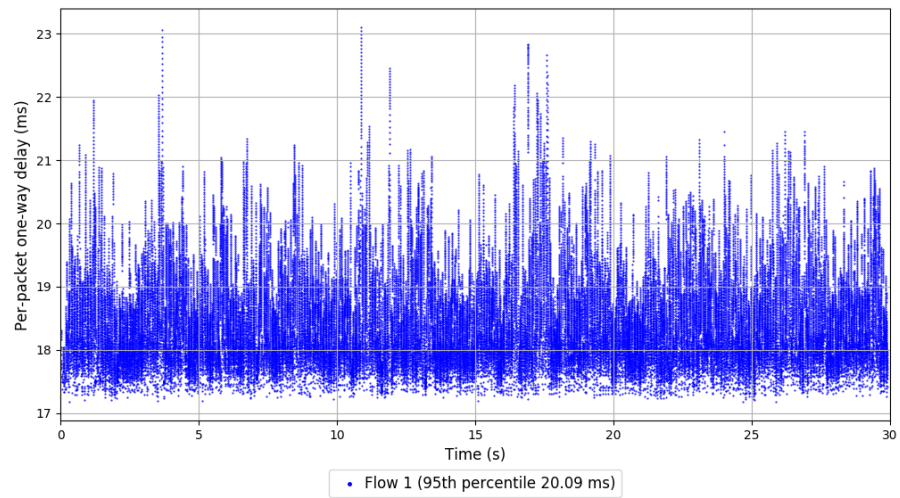
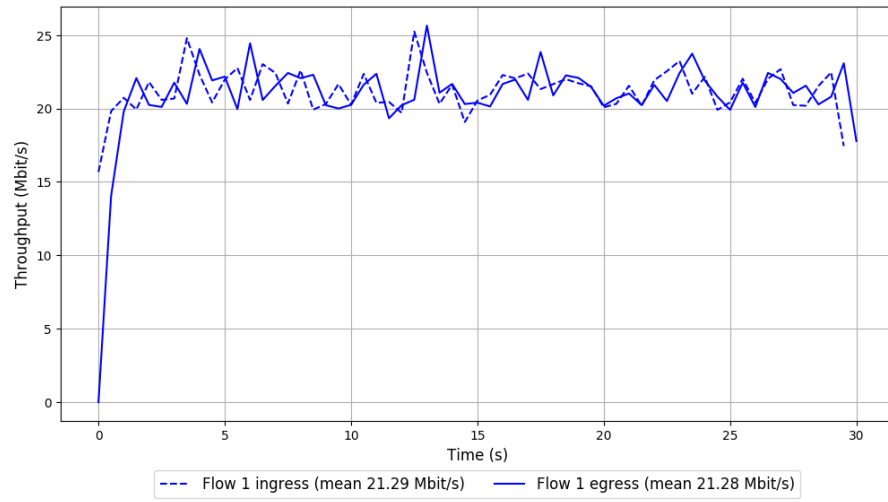
Average throughput: 21.28 Mbit/s

95th percentile per-packet one-way delay: 20.094 ms

Loss rate: 0.05%



### Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-05-22 01:27:20

End at: 2018-05-22 01:27:50

Local clock offset: -0.093 ms

Remote clock offset: 0.129 ms

# Below is generated by plot.py at 2018-05-22 03:00:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 20.09 Mbit/s

95th percentile per-packet one-way delay: 21.114 ms

Loss rate: 0.01%

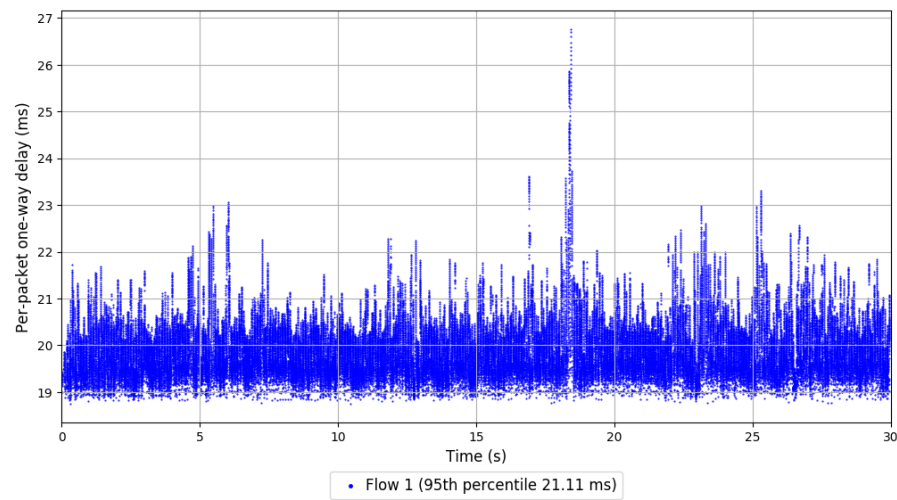
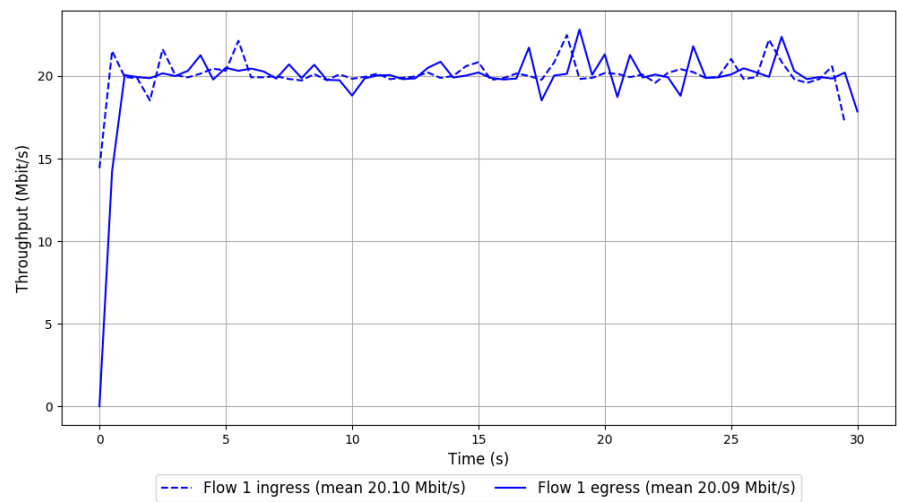
-- Flow 1:

Average throughput: 20.09 Mbit/s

95th percentile per-packet one-way delay: 21.114 ms

Loss rate: 0.01%

Run 10: Report of Sprout — Data Link

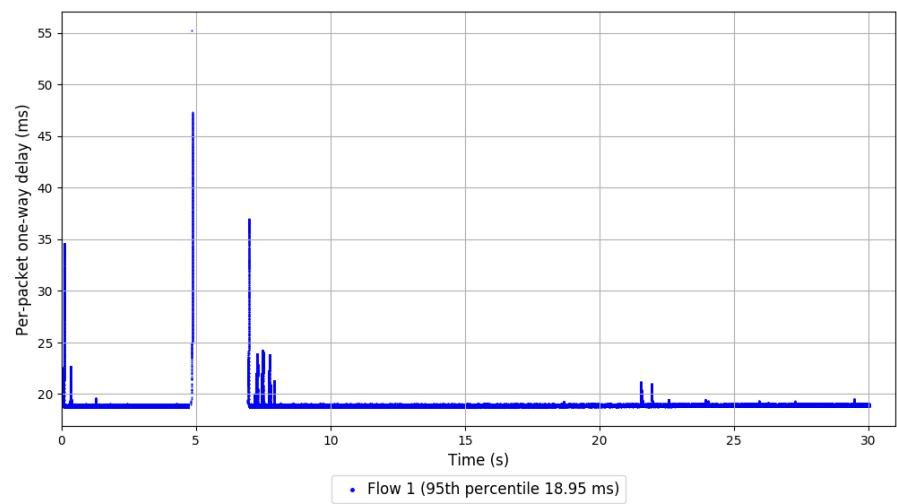
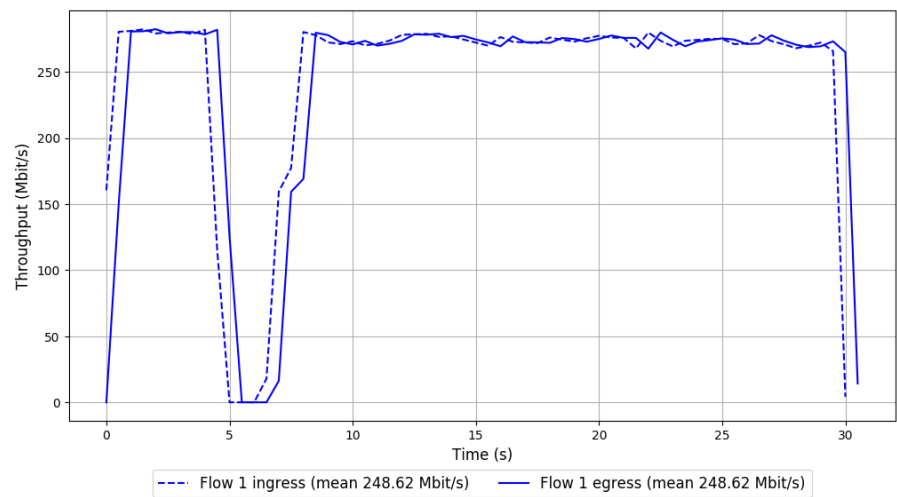


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-05-21 22:01:37
End at: 2018-05-21 22:02:07
Local clock offset: -1.728 ms
Remote clock offset: 2.036 ms

# Below is generated by plot.py at 2018-05-22 03:00:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 248.62 Mbit/s
95th percentile per-packet one-way delay: 18.952 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 248.62 Mbit/s
95th percentile per-packet one-way delay: 18.952 ms
Loss rate: 0.00%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-05-21 22:25:43

End at: 2018-05-21 22:26:13

Local clock offset: -1.254 ms

Remote clock offset: 1.483 ms

# Below is generated by plot.py at 2018-05-22 03:00:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 227.36 Mbit/s

95th percentile per-packet one-way delay: 17.448 ms

Loss rate: 0.00%

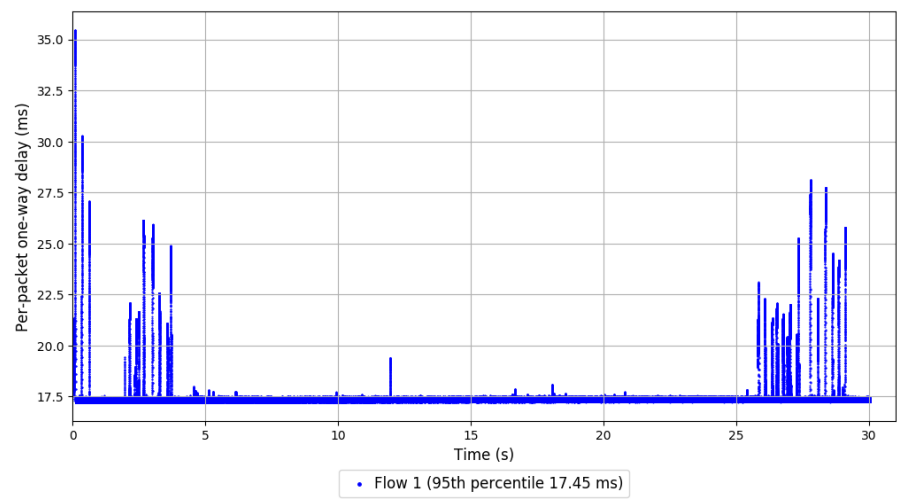
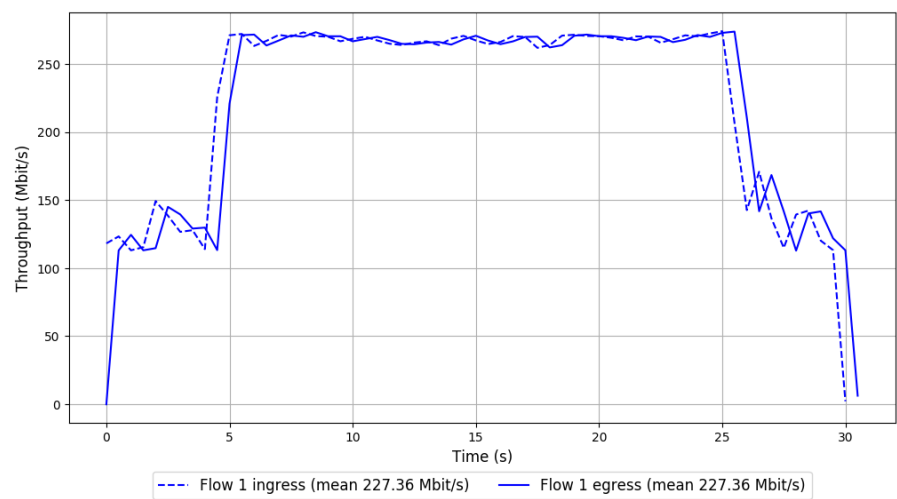
-- Flow 1:

Average throughput: 227.36 Mbit/s

95th percentile per-packet one-way delay: 17.448 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-05-21 22:49:30

End at: 2018-05-21 22:50:00

Local clock offset: 1.754 ms

Remote clock offset: 1.385 ms

# Below is generated by plot.py at 2018-05-22 03:01:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 266.07 Mbit/s

95th percentile per-packet one-way delay: 18.953 ms

Loss rate: 0.01%

-- Flow 1:

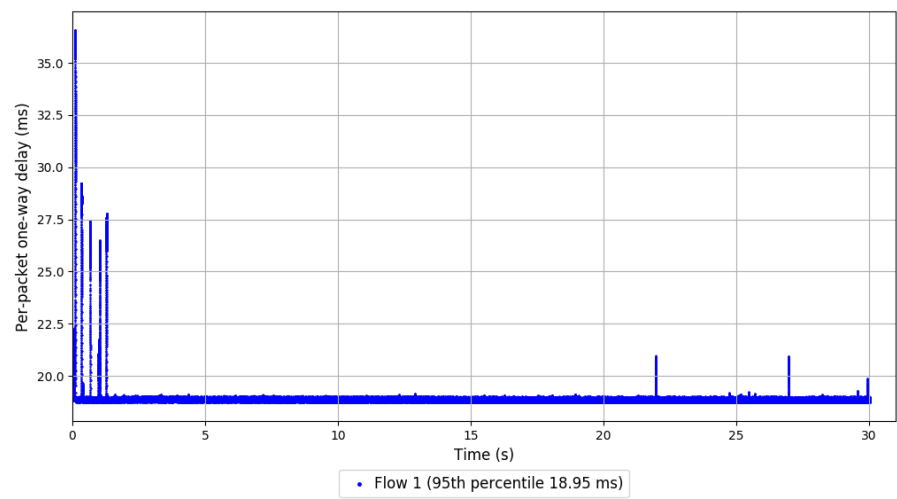
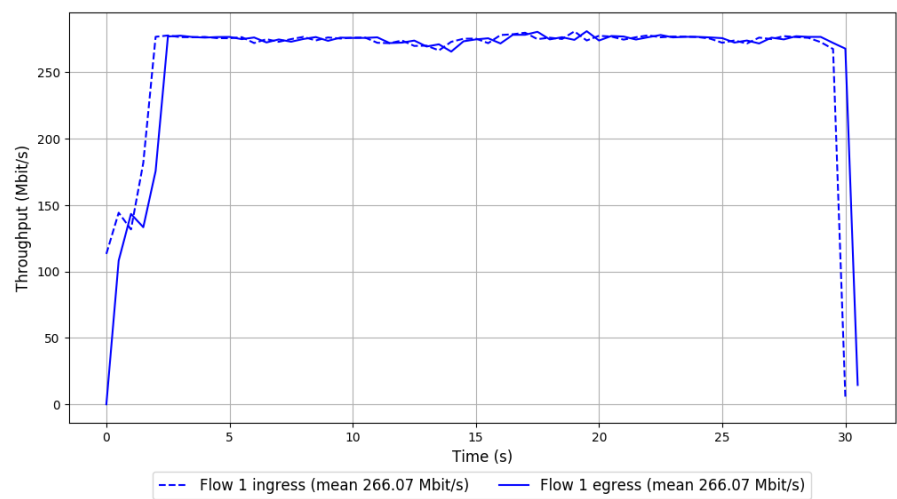
Average throughput: 266.07 Mbit/s

95th percentile per-packet one-way delay: 18.953 ms

Loss rate: 0.01%



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



Run 4: Statistics of TaoVA-100x

Start at: 2018-05-21 23:13:32

End at: 2018-05-21 23:14:02

Local clock offset: -0.125 ms

Remote clock offset: 0.235 ms

# Below is generated by plot.py at 2018-05-22 03:01:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 272.26 Mbit/s

95th percentile per-packet one-way delay: 18.679 ms

Loss rate: 0.02%

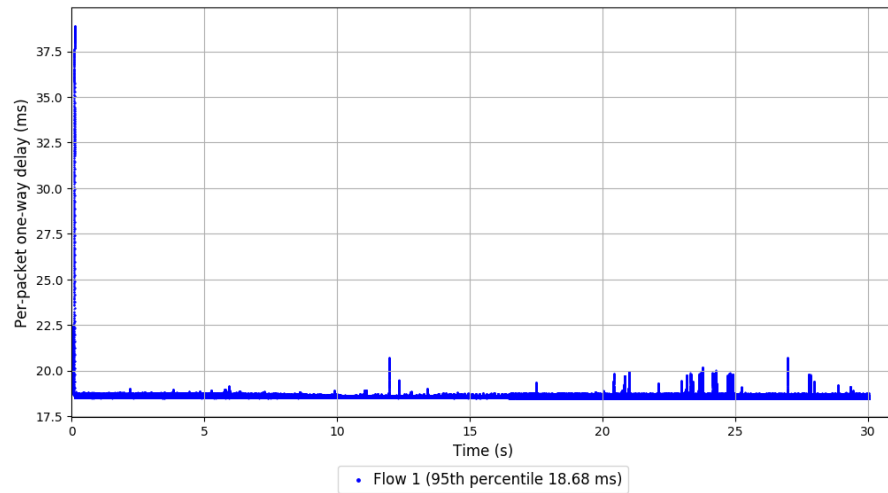
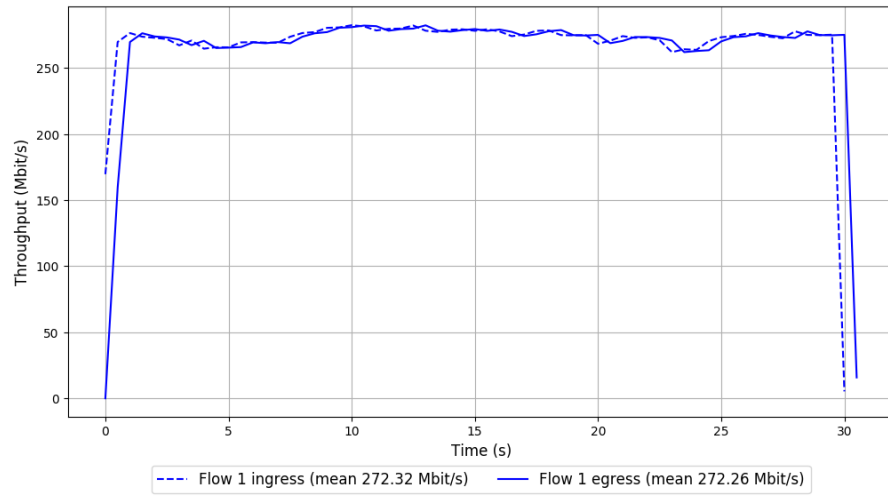
-- Flow 1:

Average throughput: 272.26 Mbit/s

95th percentile per-packet one-way delay: 18.679 ms

Loss rate: 0.02%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-05-21 23:37:22

End at: 2018-05-21 23:37:52

Local clock offset: -0.296 ms

Remote clock offset: 0.088 ms

# Below is generated by plot.py at 2018-05-22 03:03:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 241.44 Mbit/s

95th percentile per-packet one-way delay: 18.902 ms

Loss rate: 0.00%

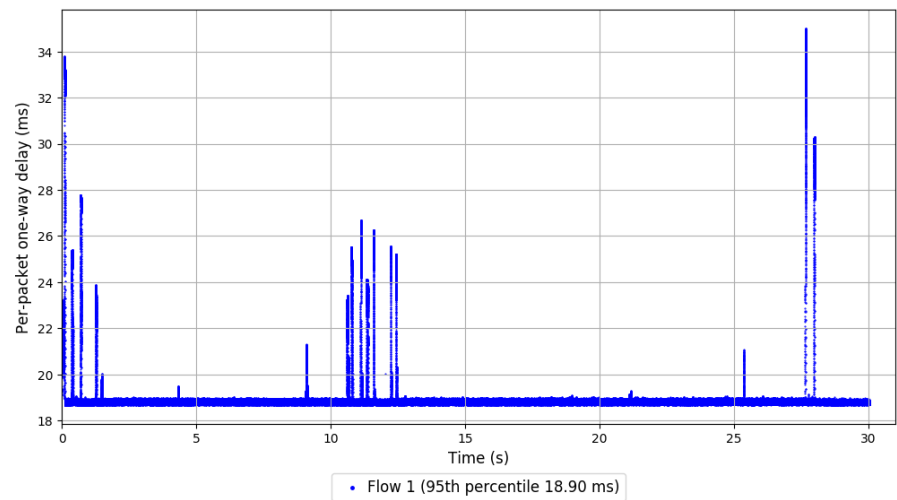
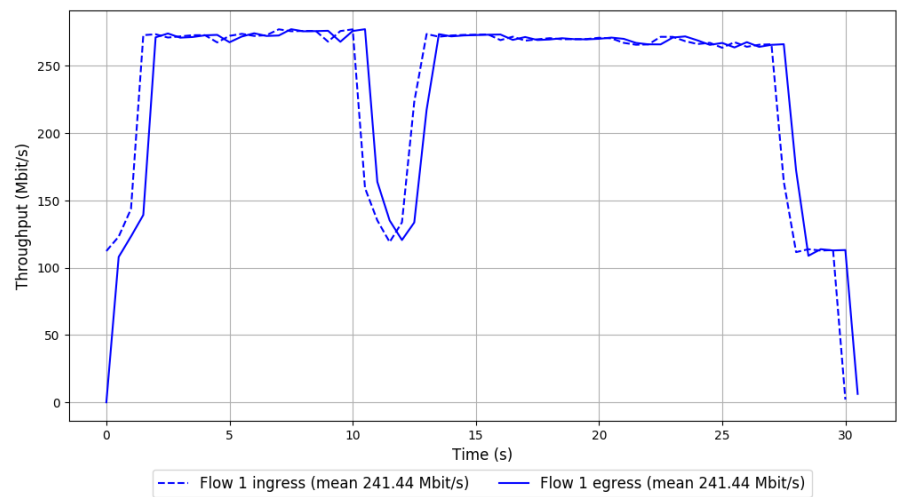
-- Flow 1:

Average throughput: 241.44 Mbit/s

95th percentile per-packet one-way delay: 18.902 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-05-22 00:01:27

End at: 2018-05-22 00:01:57

Local clock offset: -0.169 ms

Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2018-05-22 03:04:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 233.40 Mbit/s

95th percentile per-packet one-way delay: 17.445 ms

Loss rate: 0.01%

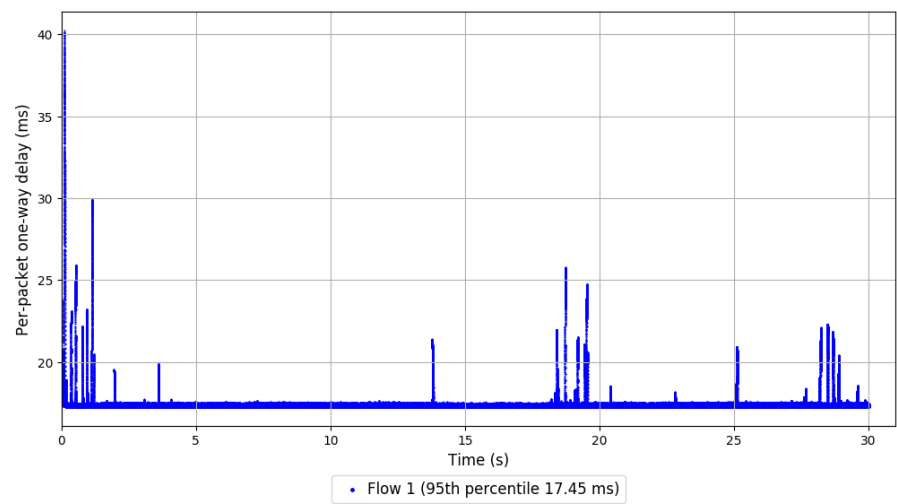
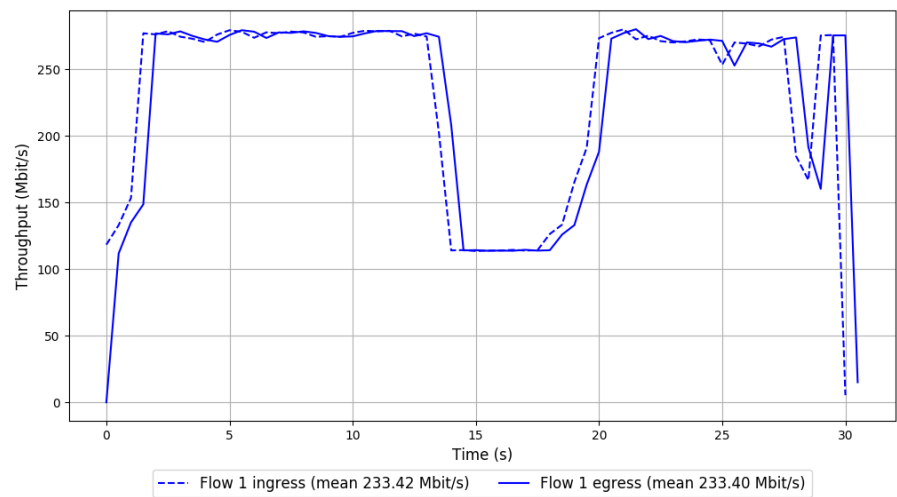
-- Flow 1:

Average throughput: 233.40 Mbit/s

95th percentile per-packet one-way delay: 17.445 ms

Loss rate: 0.01%

Run 6: Report of TaoVA-100x — Data Link



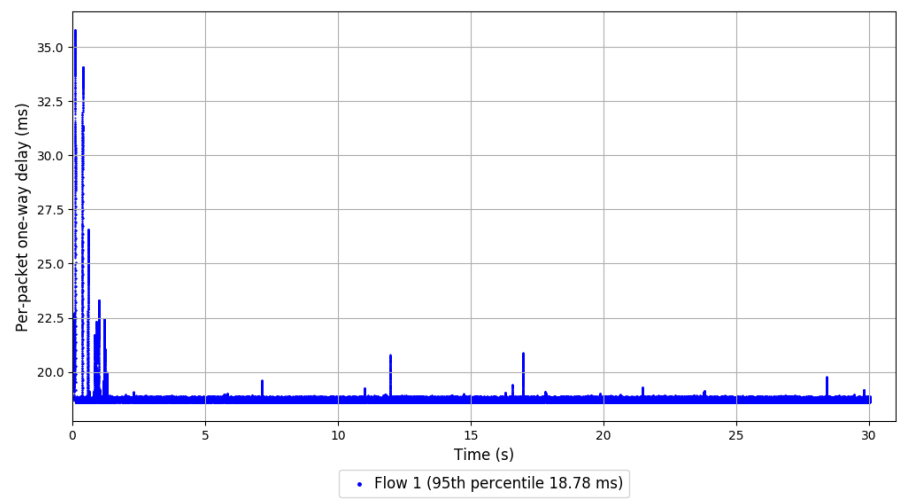
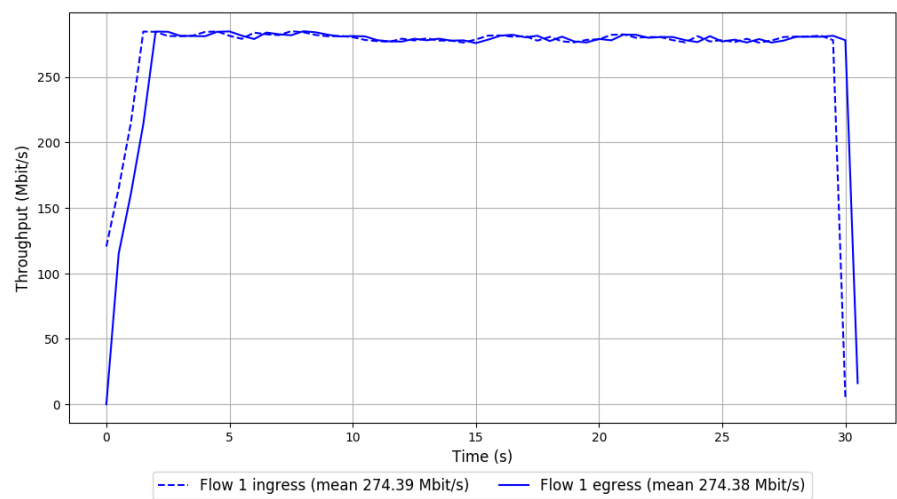
Run 7: Statistics of TaoVA-100x

Start at: 2018-05-22 00:25:10  
End at: 2018-05-22 00:25:40  
Local clock offset: 0.149 ms  
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2018-05-22 03:05:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 274.38 Mbit/s  
95th percentile per-packet one-way delay: 18.784 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 274.38 Mbit/s  
95th percentile per-packet one-way delay: 18.784 ms  
Loss rate: 0.00%



Run 7: Report of TaoVA-100x — Data Link



Run 8: Statistics of TaoVA-100x

Start at: 2018-05-22 00:48:56

End at: 2018-05-22 00:49:26

Local clock offset: 0.199 ms

Remote clock offset: 0.045 ms

# Below is generated by plot.py at 2018-05-22 03:05:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 214.20 Mbit/s

95th percentile per-packet one-way delay: 18.926 ms

Loss rate: 0.00%

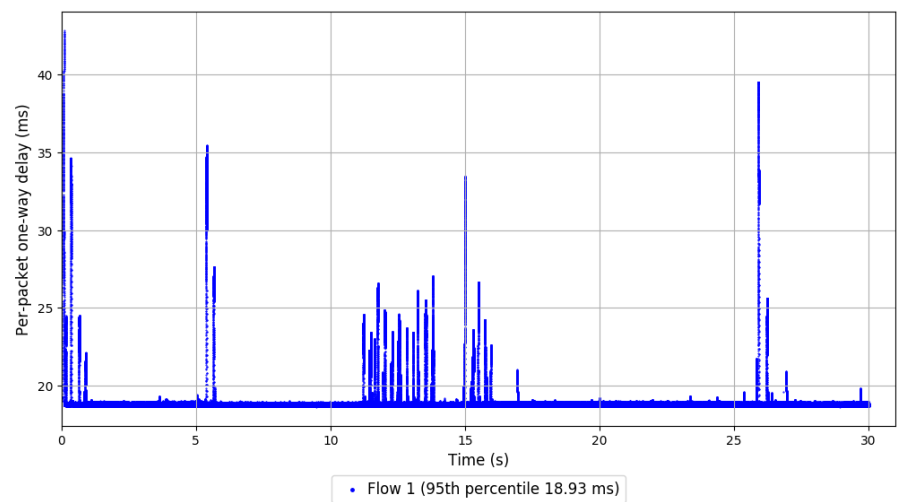
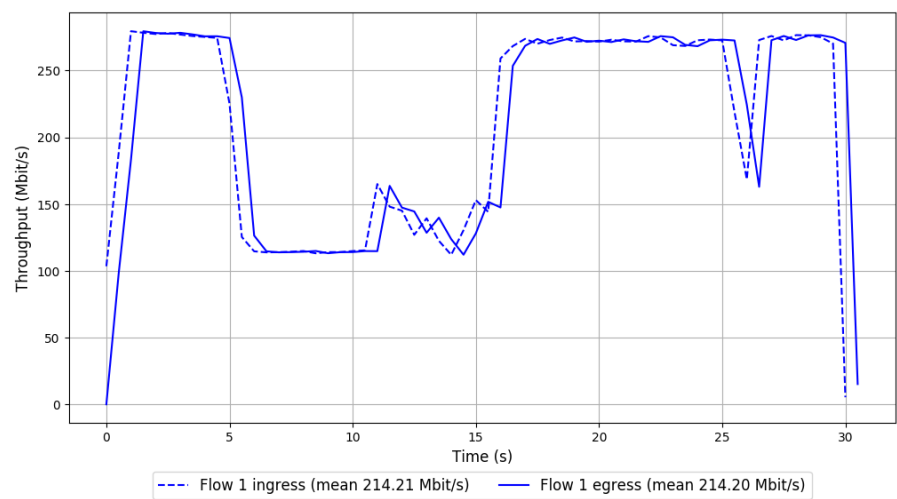
-- Flow 1:

Average throughput: 214.20 Mbit/s

95th percentile per-packet one-way delay: 18.926 ms

Loss rate: 0.00%

Run 8: Report of TaoVA-100x — Data Link



Run 9: Statistics of TaoVA-100x

Start at: 2018-05-22 01:12:31

End at: 2018-05-22 01:13:01

Local clock offset: -0.002 ms

Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2018-05-22 03:06:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 269.80 Mbit/s

95th percentile per-packet one-way delay: 18.863 ms

Loss rate: 0.01%

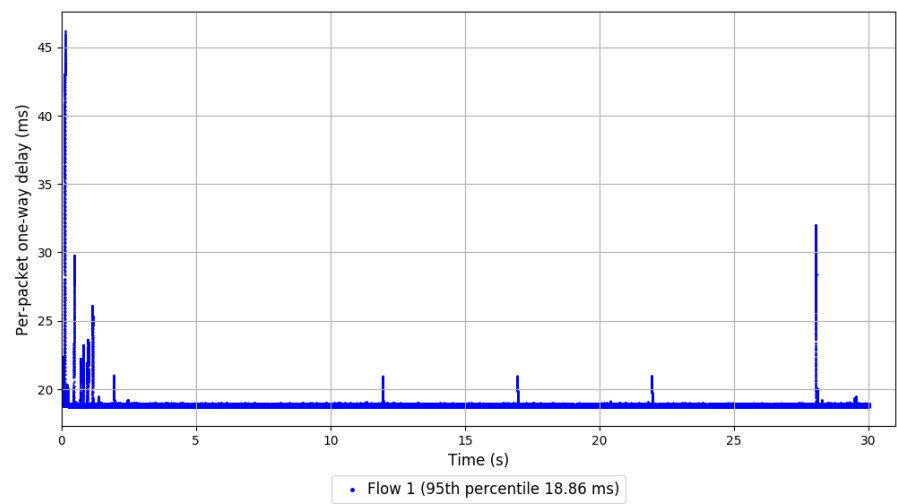
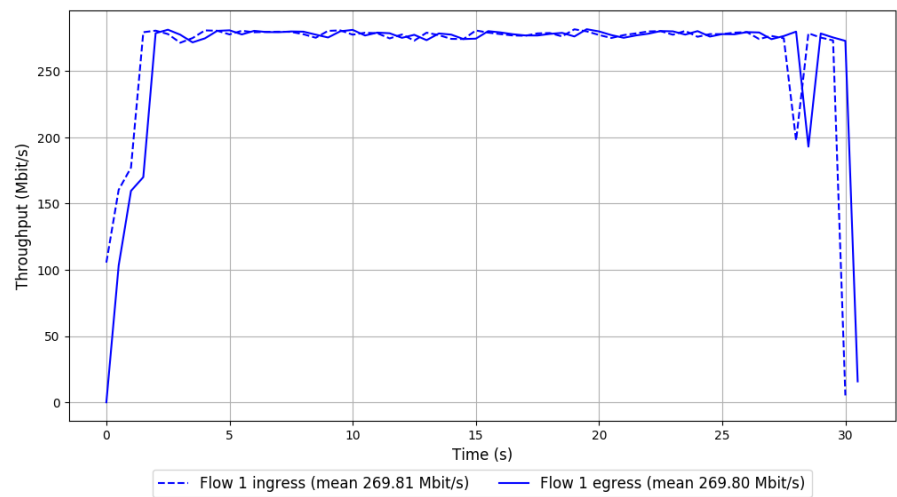
-- Flow 1:

Average throughput: 269.80 Mbit/s

95th percentile per-packet one-way delay: 18.863 ms

Loss rate: 0.01%

Run 9: Report of TaoVA-100x — Data Link



Run 10: Statistics of TaoVA-100x

Start at: 2018-05-22 01:36:07

End at: 2018-05-22 01:36:37

Local clock offset: 0.061 ms

Remote clock offset: 0.177 ms

# Below is generated by plot.py at 2018-05-22 03:06:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 252.26 Mbit/s

95th percentile per-packet one-way delay: 18.961 ms

Loss rate: 0.00%

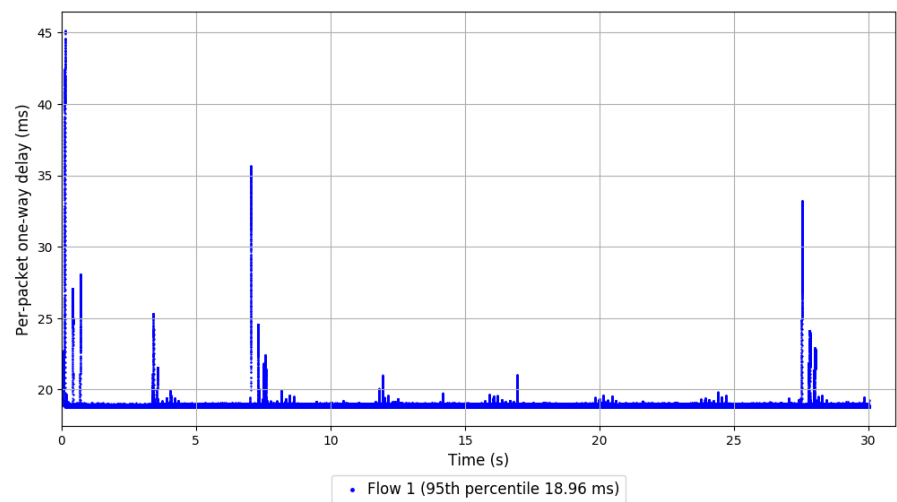
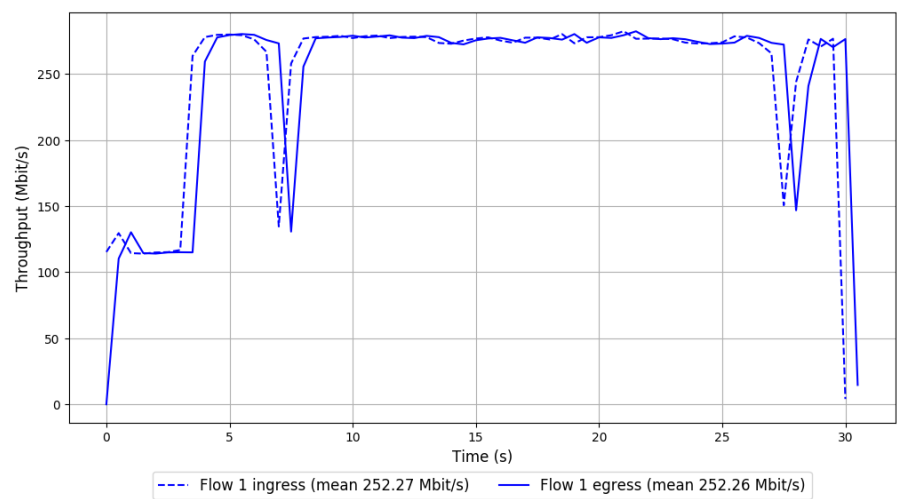
-- Flow 1:

Average throughput: 252.26 Mbit/s

95th percentile per-packet one-way delay: 18.961 ms

Loss rate: 0.00%

Run 10: Report of TaoVA-100x — Data Link



Run 1: Statistics of TCP Vegas

Start at: 2018-05-21 21:43:46

End at: 2018-05-21 21:44:16

Local clock offset: -1.743 ms

Remote clock offset: 5.074 ms

# Below is generated by plot.py at 2018-05-22 03:06:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 109.80 Mbit/s

95th percentile per-packet one-way delay: 20.800 ms

Loss rate: 0.01%

-- Flow 1:

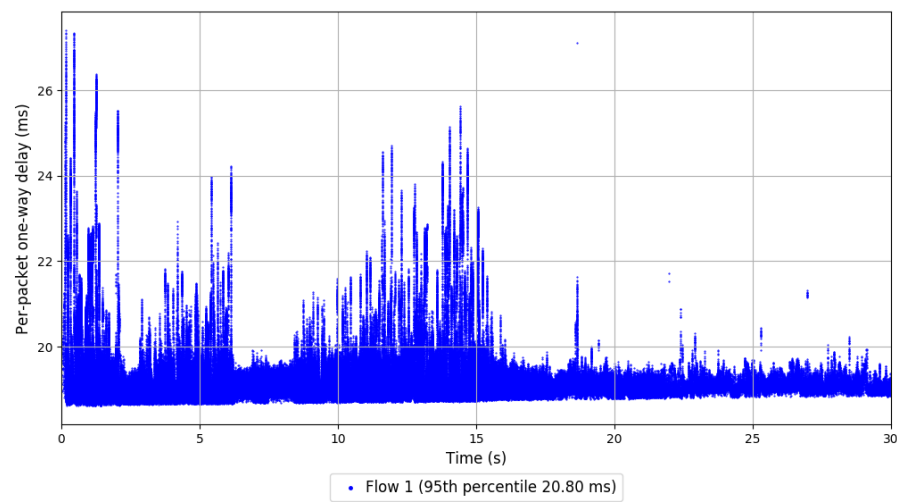
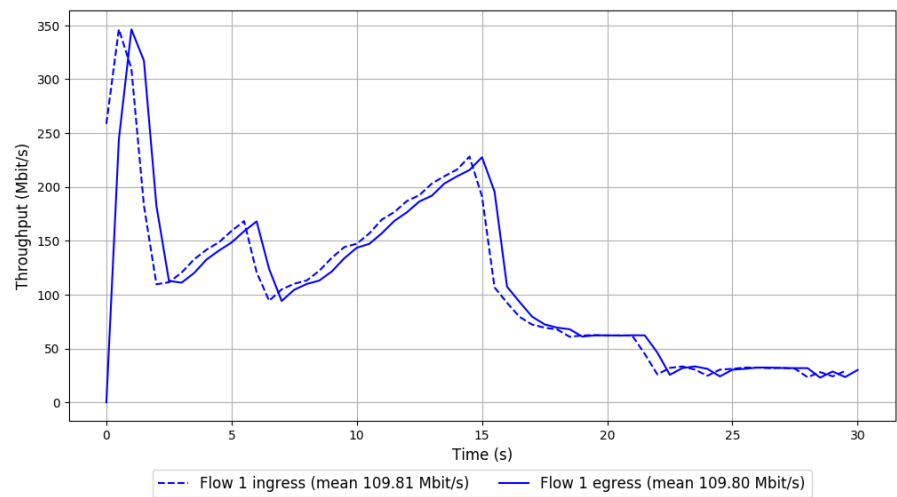
Average throughput: 109.80 Mbit/s

95th percentile per-packet one-way delay: 20.800 ms

Loss rate: 0.01%



Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-05-21 22:07:48

End at: 2018-05-21 22:08:18

Local clock offset: -1.186 ms

Remote clock offset: 2.259 ms

# Below is generated by plot.py at 2018-05-22 03:06:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 211.96 Mbit/s

95th percentile per-packet one-way delay: 22.171 ms

Loss rate: 0.00%

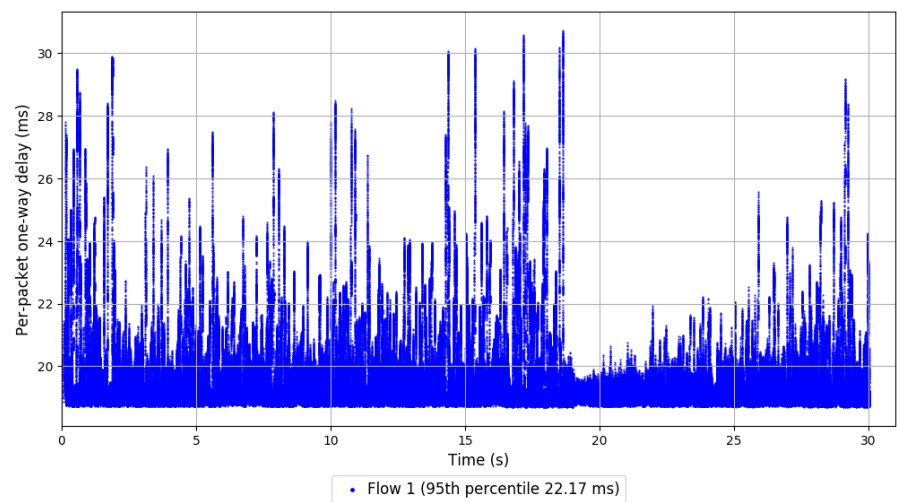
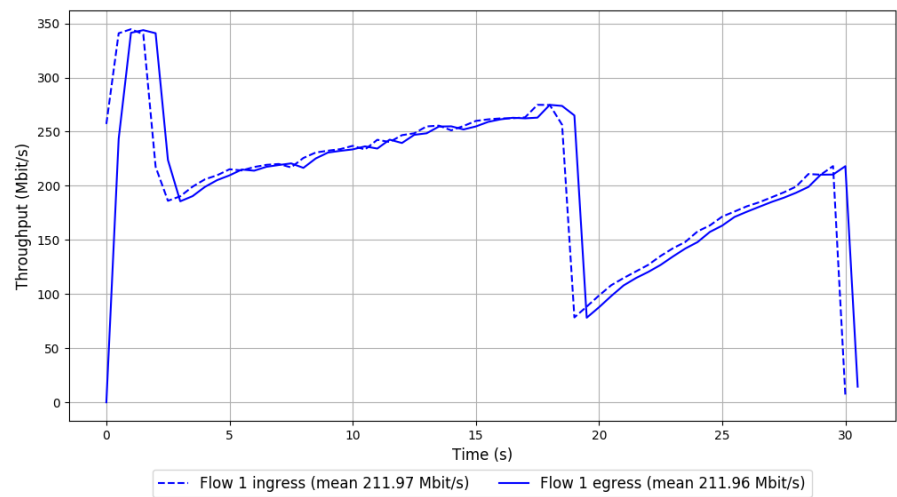
-- Flow 1:

Average throughput: 211.96 Mbit/s

95th percentile per-packet one-way delay: 22.171 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-05-21 22:31:42

End at: 2018-05-21 22:32:12

Local clock offset: 0.048 ms

Remote clock offset: 1.064 ms

# Below is generated by plot.py at 2018-05-22 03:06:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 56.23 Mbit/s

95th percentile per-packet one-way delay: 21.924 ms

Loss rate: 0.61%

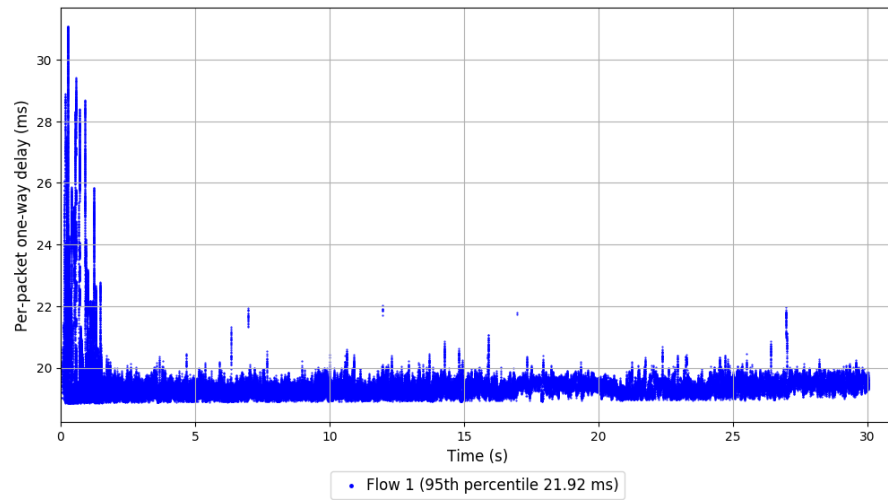
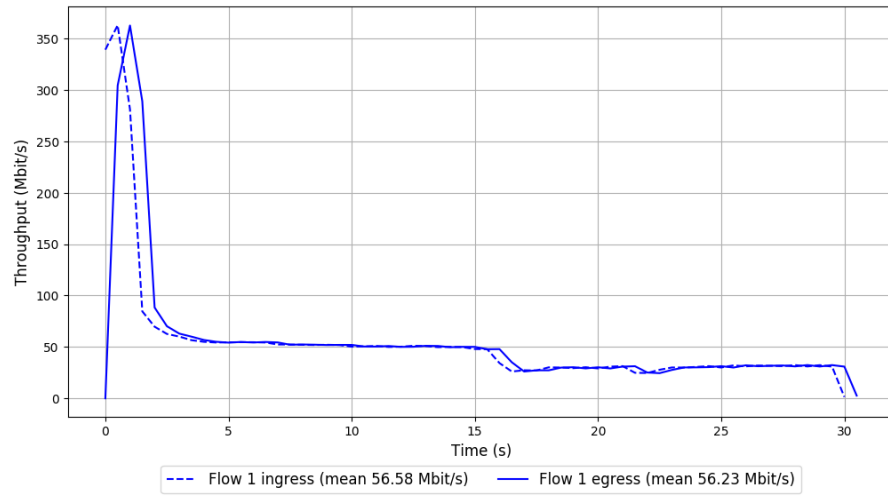
-- Flow 1:

Average throughput: 56.23 Mbit/s

95th percentile per-packet one-way delay: 21.924 ms

Loss rate: 0.61%

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



Run 4: Statistics of TCP Vegas

Start at: 2018-05-21 22:55:34

End at: 2018-05-21 22:56:04

Local clock offset: 1.952 ms

Remote clock offset: 1.059 ms

# Below is generated by plot.py at 2018-05-22 03:06:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 187.84 Mbit/s

95th percentile per-packet one-way delay: 22.212 ms

Loss rate: 0.01%

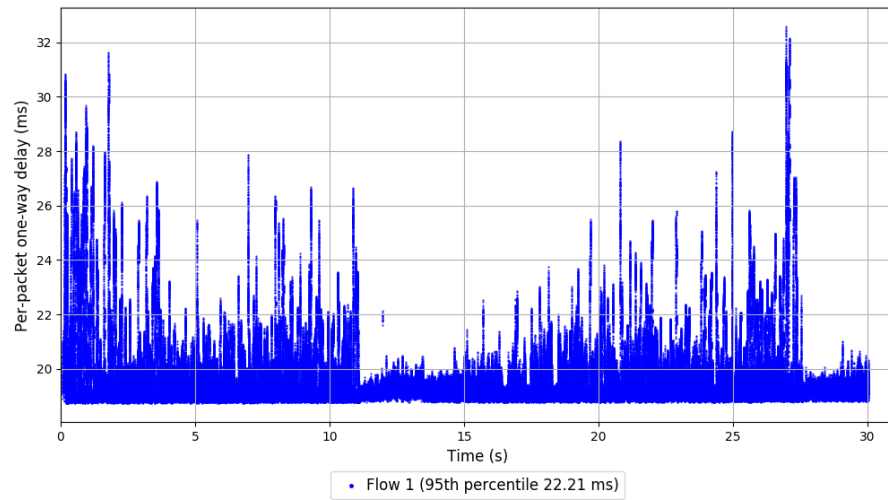
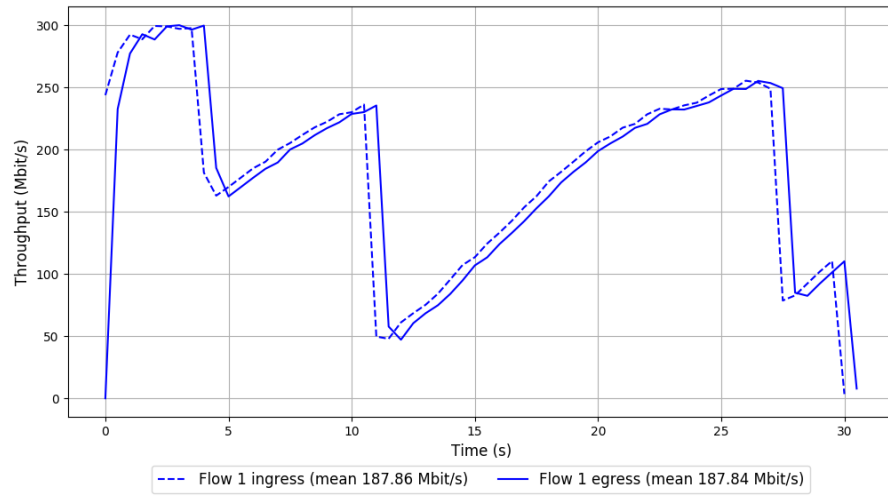
-- Flow 1:

Average throughput: 187.84 Mbit/s

95th percentile per-packet one-way delay: 22.212 ms

Loss rate: 0.01%

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



Run 5: Statistics of TCP Vegas

Start at: 2018-05-21 23:19:29

End at: 2018-05-21 23:19:59

Local clock offset: -0.454 ms

Remote clock offset: 0.324 ms

# Below is generated by plot.py at 2018-05-22 03:07:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 272.88 Mbit/s

95th percentile per-packet one-way delay: 23.122 ms

Loss rate: 0.00%

-- Flow 1:

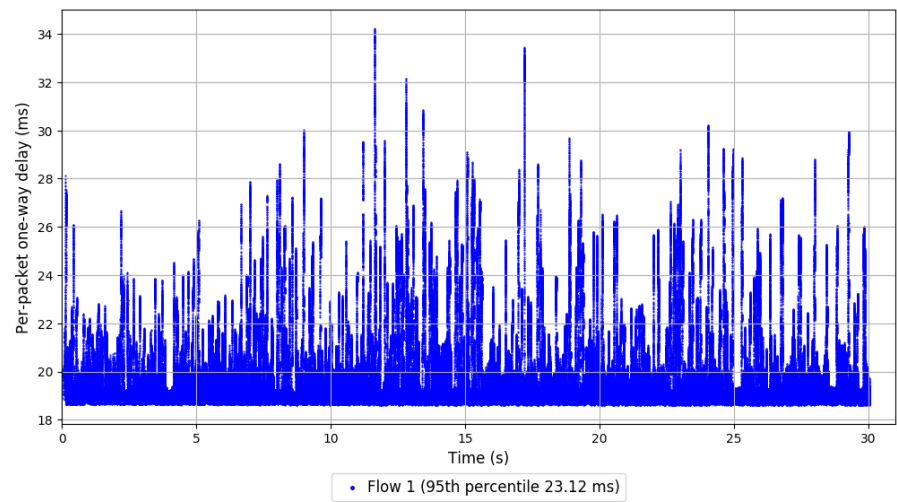
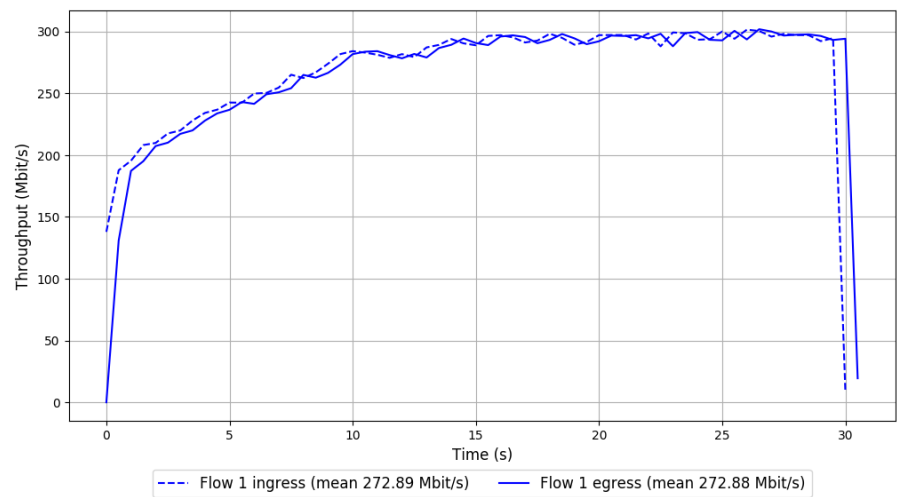
Average throughput: 272.88 Mbit/s

95th percentile per-packet one-way delay: 23.122 ms

Loss rate: 0.00%



Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-05-21 23:43:22

End at: 2018-05-21 23:43:52

Local clock offset: -0.259 ms

Remote clock offset: 0.112 ms

# Below is generated by plot.py at 2018-05-22 03:08:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 346.22 Mbit/s

95th percentile per-packet one-way delay: 23.814 ms

Loss rate: 0.01%

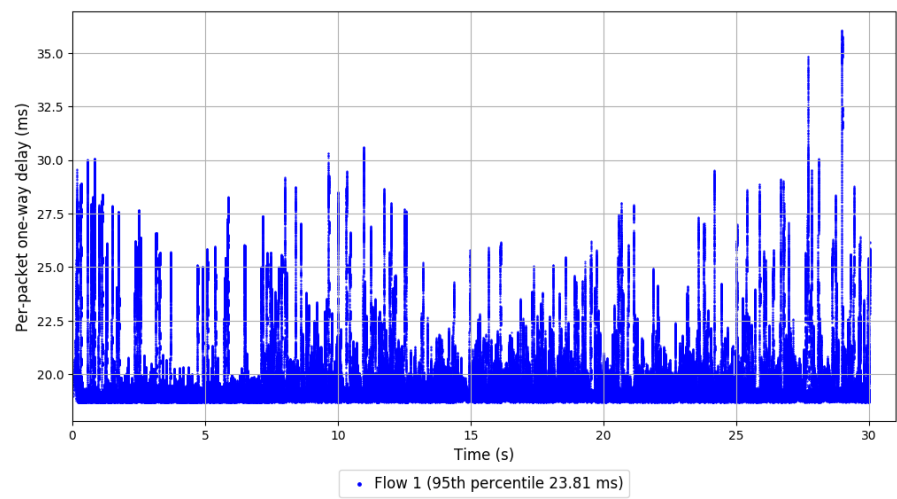
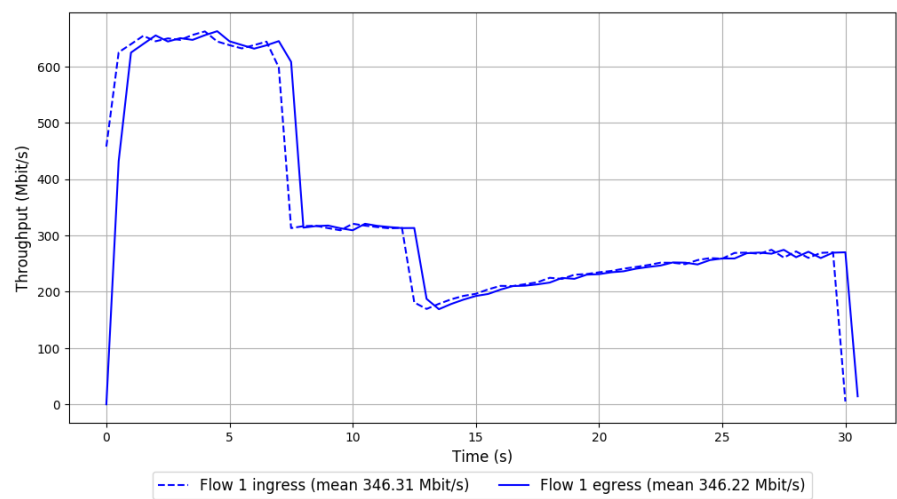
-- Flow 1:

Average throughput: 346.22 Mbit/s

95th percentile per-packet one-way delay: 23.814 ms

Loss rate: 0.01%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-05-22 00:07:25

End at: 2018-05-22 00:07:55

Local clock offset: 0.048 ms

Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2018-05-22 03:08:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 76.18 Mbit/s

95th percentile per-packet one-way delay: 20.841 ms

Loss rate: 0.01%

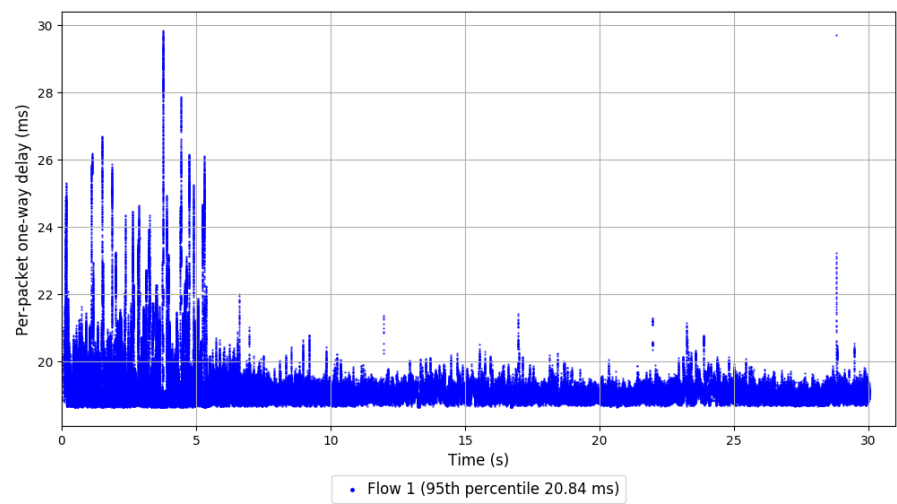
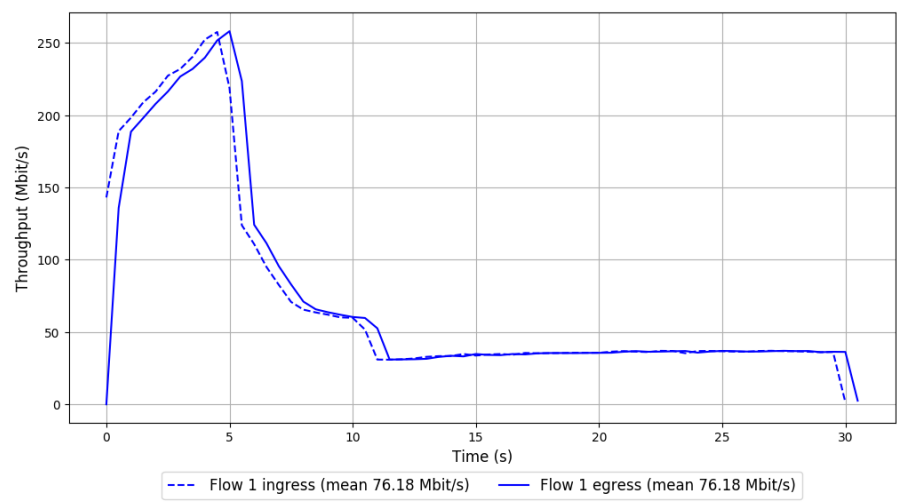
-- Flow 1:

Average throughput: 76.18 Mbit/s

95th percentile per-packet one-way delay: 20.841 ms

Loss rate: 0.01%

Run 7: Report of TCP Vegas — Data Link

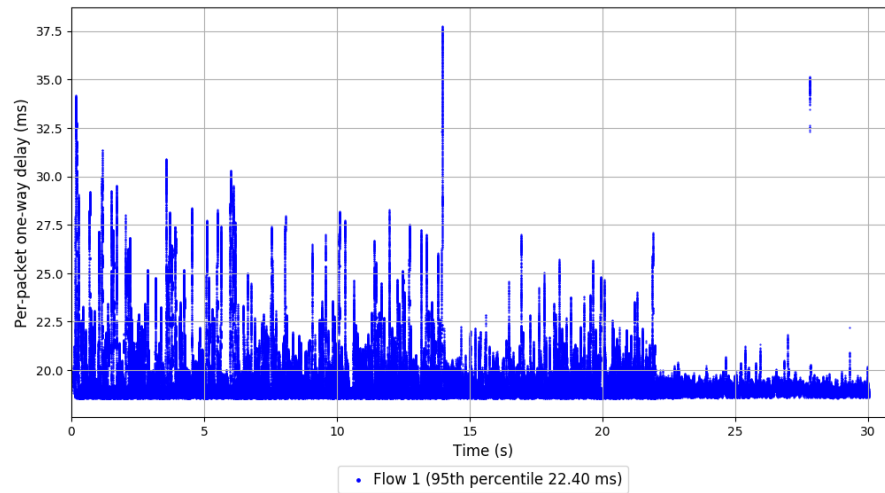
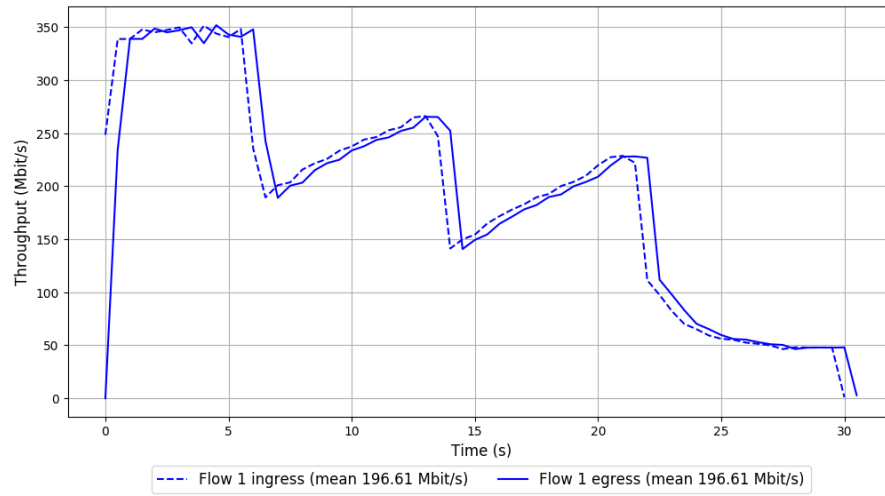


Run 8: Statistics of TCP Vegas

Start at: 2018-05-22 00:31:10  
End at: 2018-05-22 00:31:40  
Local clock offset: 0.166 ms  
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2018-05-22 03:08:43  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 196.61 Mbit/s  
95th percentile per-packet one-way delay: 22.396 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 196.61 Mbit/s  
95th percentile per-packet one-way delay: 22.396 ms  
Loss rate: 0.00%

### Run 8: Report of TCP Vegas — Data Link



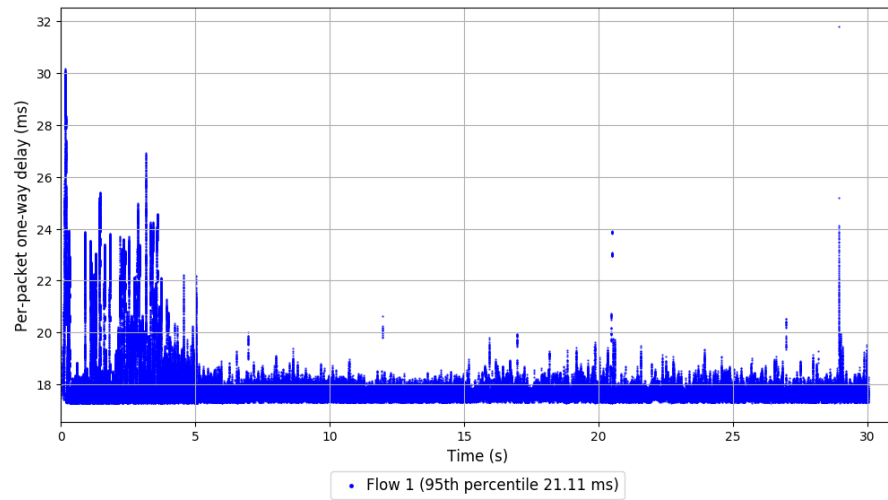
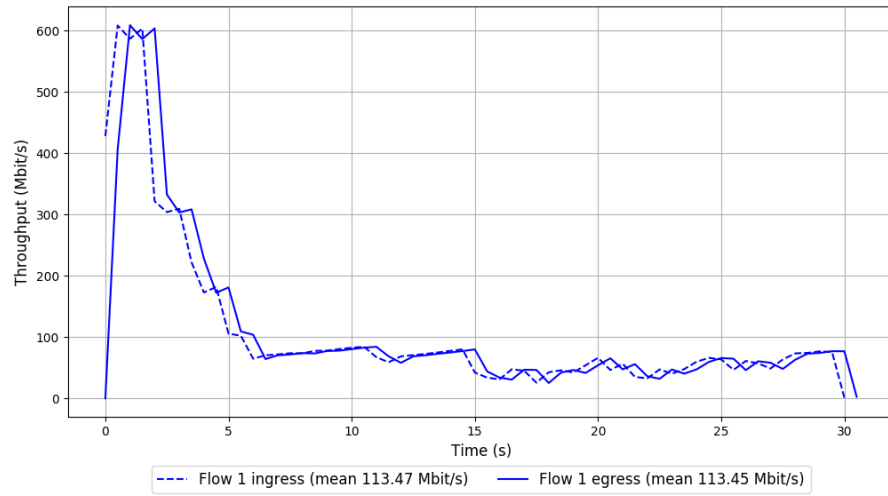
Run 9: Statistics of TCP Vegas

Start at: 2018-05-22 00:54:53  
End at: 2018-05-22 00:55:23  
Local clock offset: 0.04 ms  
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2018-05-22 03:08:43  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 113.45 Mbit/s  
95th percentile per-packet one-way delay: 21.109 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 113.45 Mbit/s  
95th percentile per-packet one-way delay: 21.109 ms  
Loss rate: 0.01%



### Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-05-22 01:18:26

End at: 2018-05-22 01:18:56

Local clock offset: 0.055 ms

Remote clock offset: 0.131 ms

# Below is generated by plot.py at 2018-05-22 03:08:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 99.52 Mbit/s

95th percentile per-packet one-way delay: 20.120 ms

Loss rate: 0.01%

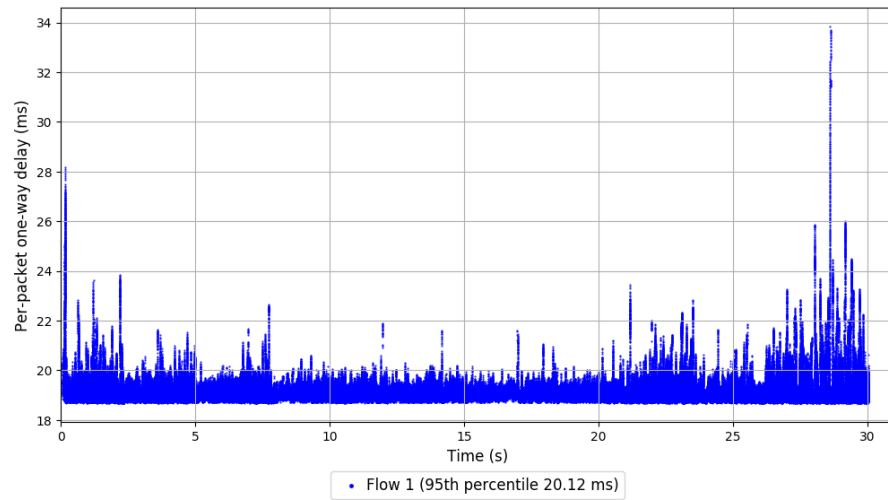
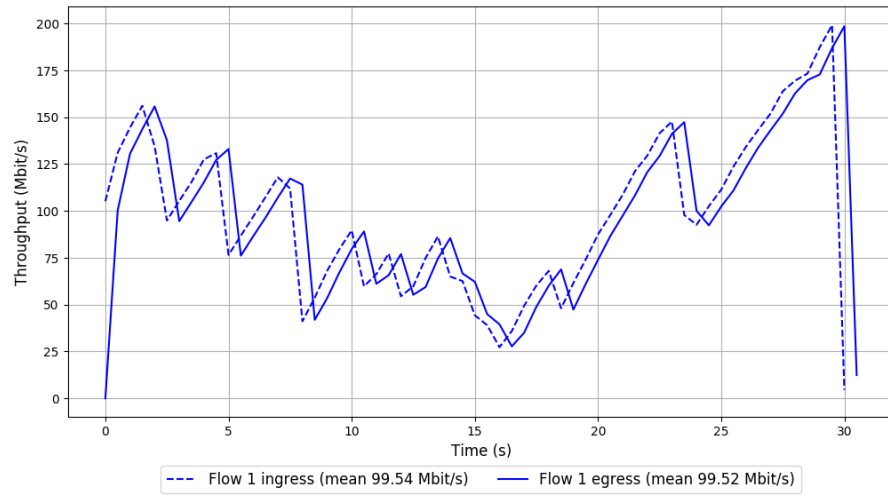
-- Flow 1:

Average throughput: 99.52 Mbit/s

95th percentile per-packet one-way delay: 20.120 ms

Loss rate: 0.01%

# Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-05-21 21:54:09

End at: 2018-05-21 21:54:39

Local clock offset: -2.579 ms

Remote clock offset: 2.311 ms

# Below is generated by plot.py at 2018-05-22 03:09:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 259.77 Mbit/s

95th percentile per-packet one-way delay: 71.405 ms

Loss rate: 15.54%

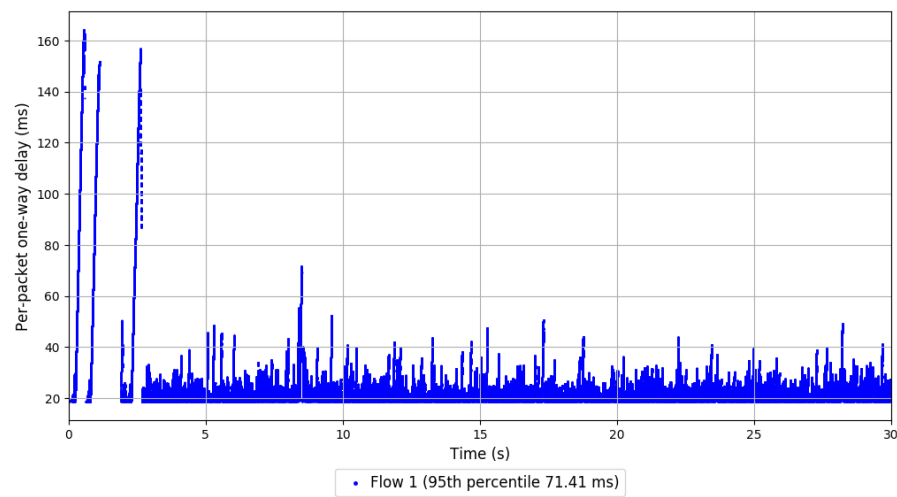
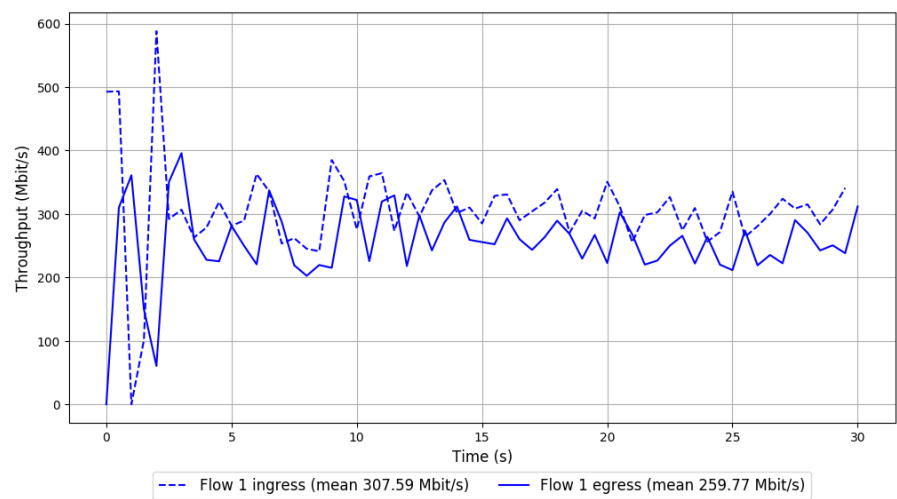
-- Flow 1:

Average throughput: 259.77 Mbit/s

95th percentile per-packet one-way delay: 71.405 ms

Loss rate: 15.54%

Run 1: Report of Verus — Data Link

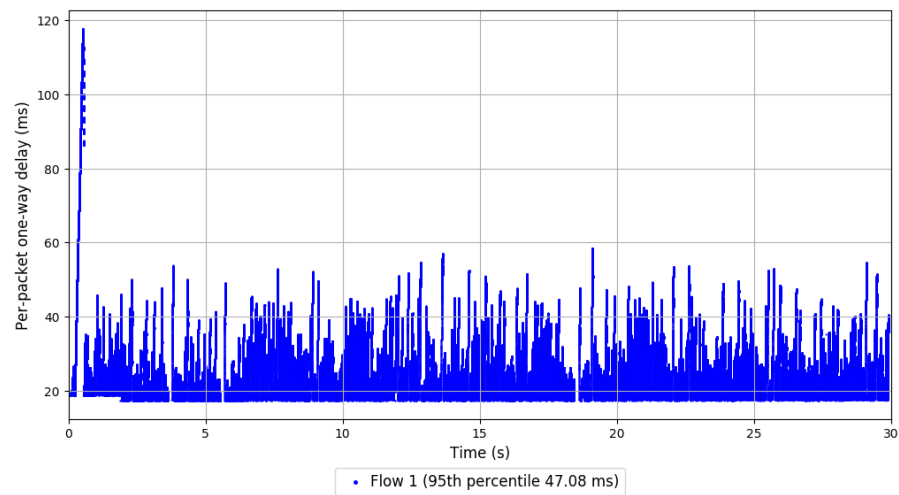
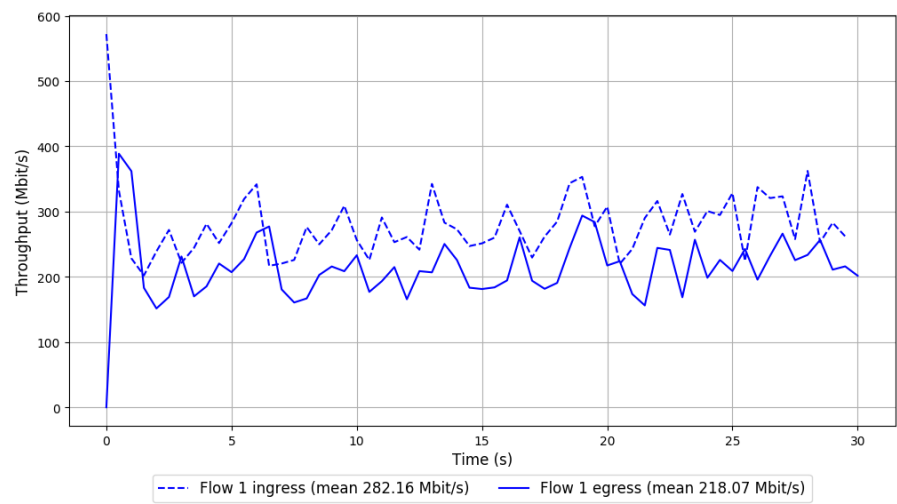


Run 2: Statistics of Verus

Start at: 2018-05-21 22:18:10  
End at: 2018-05-21 22:18:40  
Local clock offset: -1.021 ms  
Remote clock offset: 2.967 ms

# Below is generated by plot.py at 2018-05-22 03:09:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 218.07 Mbit/s  
95th percentile per-packet one-way delay: 47.083 ms  
Loss rate: 22.66%  
-- Flow 1:  
Average throughput: 218.07 Mbit/s  
95th percentile per-packet one-way delay: 47.083 ms  
Loss rate: 22.66%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-05-21 22:41:59

End at: 2018-05-21 22:42:29

Local clock offset: 1.506 ms

Remote clock offset: 1.178 ms

# Below is generated by plot.py at 2018-05-22 03:10:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 227.28 Mbit/s

95th percentile per-packet one-way delay: 49.054 ms

Loss rate: 21.10%

-- Flow 1:

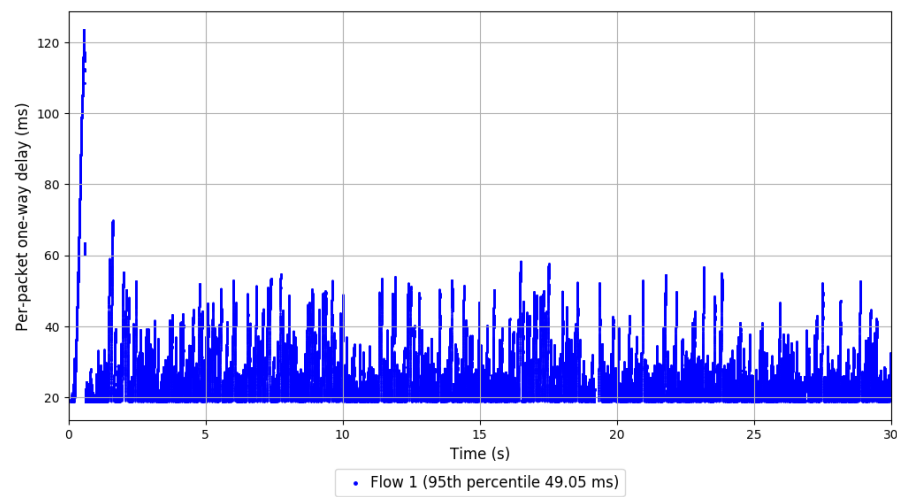
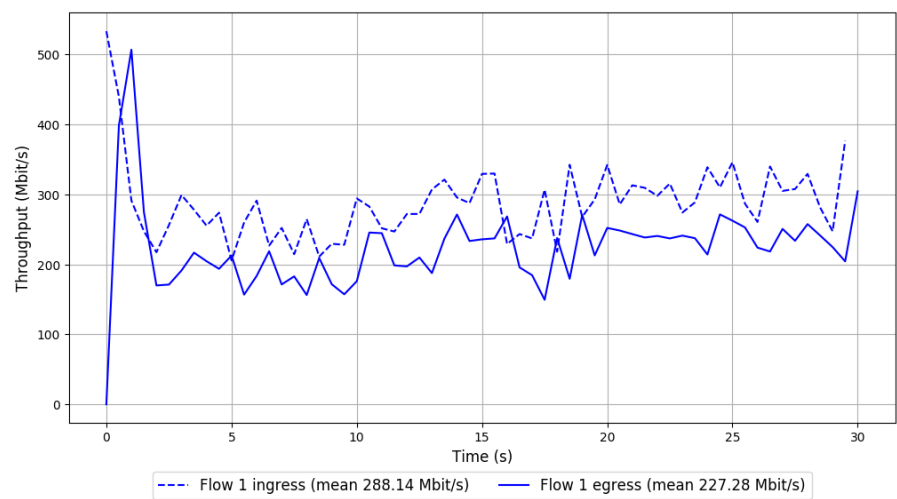
Average throughput: 227.28 Mbit/s

95th percentile per-packet one-way delay: 49.054 ms

Loss rate: 21.10%



Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-05-21 23:05:49

End at: 2018-05-21 23:06:19

Local clock offset: 0.477 ms

Remote clock offset: 0.438 ms

# Below is generated by plot.py at 2018-05-22 03:10:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 257.37 Mbit/s

95th percentile per-packet one-way delay: 47.090 ms

Loss rate: 12.87%

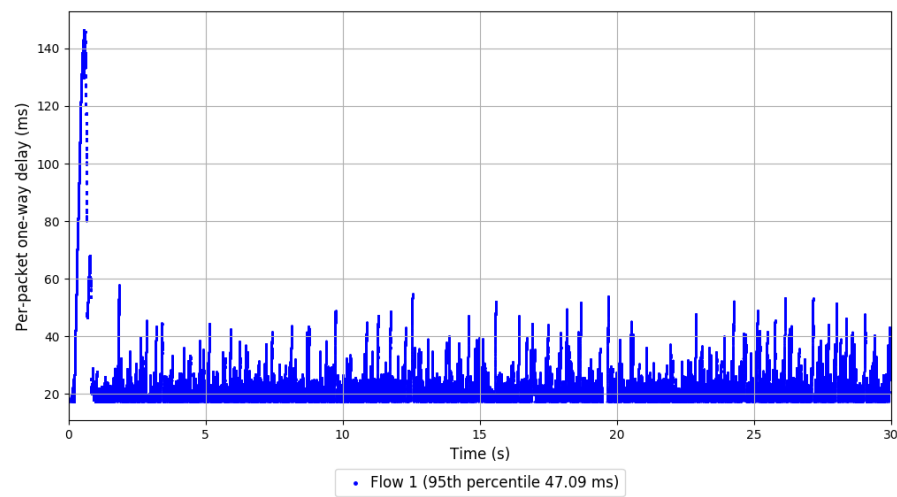
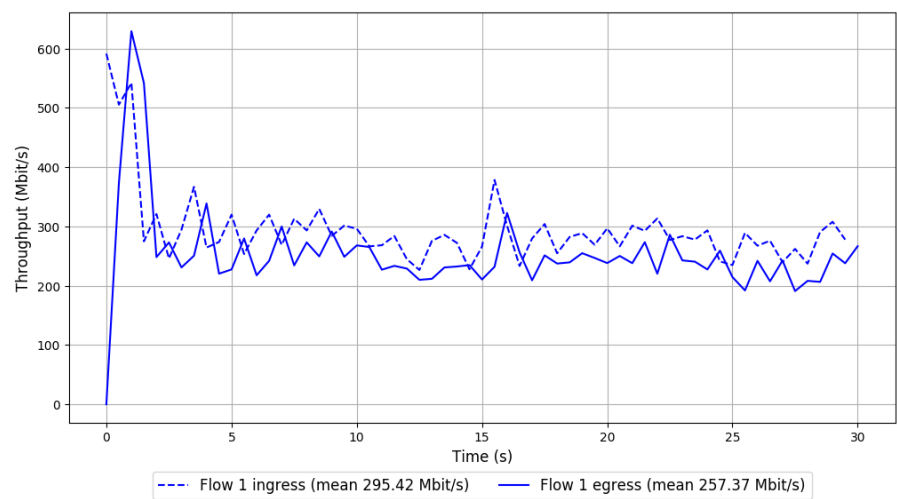
-- Flow 1:

Average throughput: 257.37 Mbit/s

95th percentile per-packet one-way delay: 47.090 ms

Loss rate: 12.87%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-05-21 23:29:50

End at: 2018-05-21 23:30:20

Local clock offset: -0.546 ms

Remote clock offset: 0.289 ms

# Below is generated by plot.py at 2018-05-22 03:10:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 210.64 Mbit/s

95th percentile per-packet one-way delay: 65.282 ms

Loss rate: 22.64%

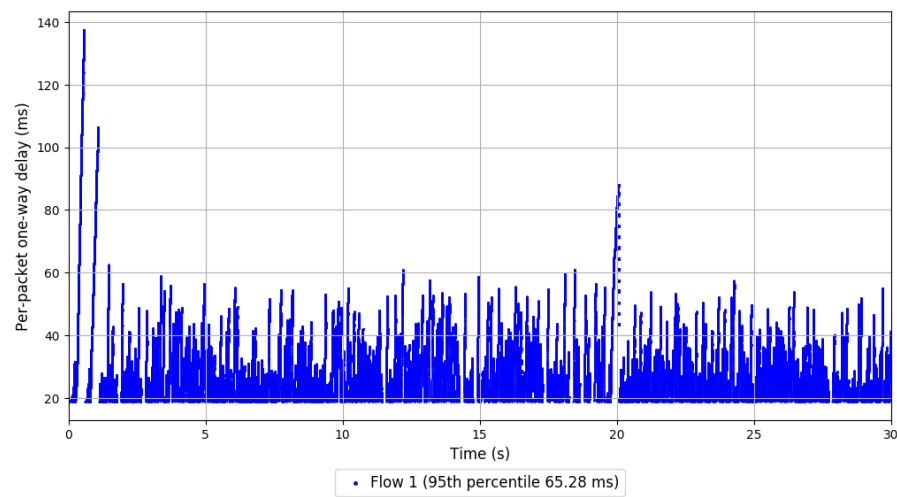
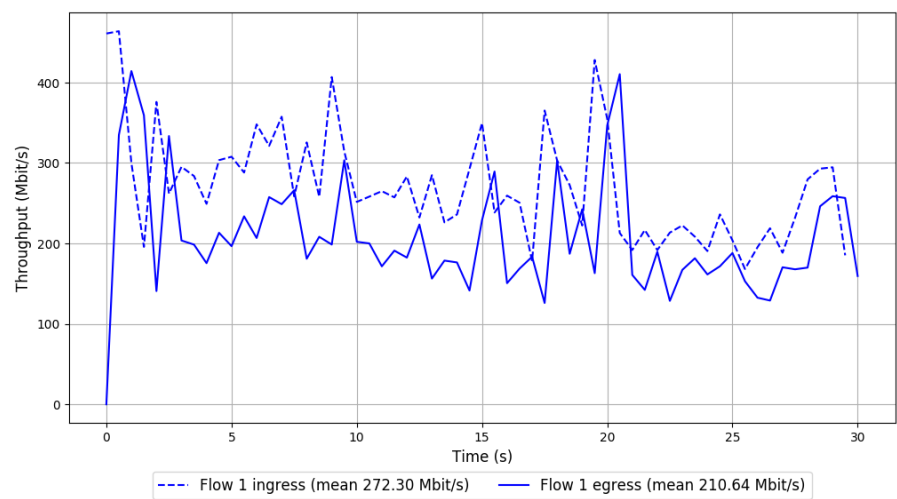
-- Flow 1:

Average throughput: 210.64 Mbit/s

95th percentile per-packet one-way delay: 65.282 ms

Loss rate: 22.64%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-05-21 23:53:48

End at: 2018-05-21 23:54:18

Local clock offset: -0.332 ms

Remote clock offset: 0.022 ms

# Below is generated by plot.py at 2018-05-22 03:10:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 239.48 Mbit/s

95th percentile per-packet one-way delay: 42.534 ms

Loss rate: 17.43%

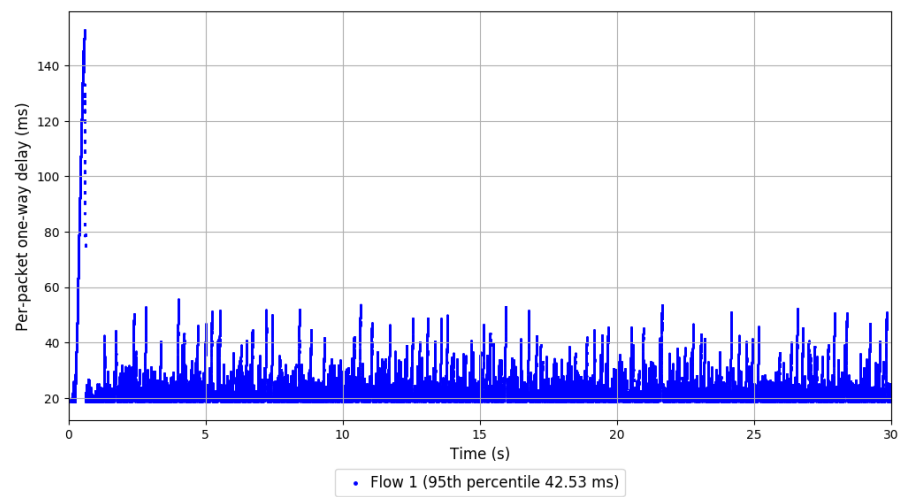
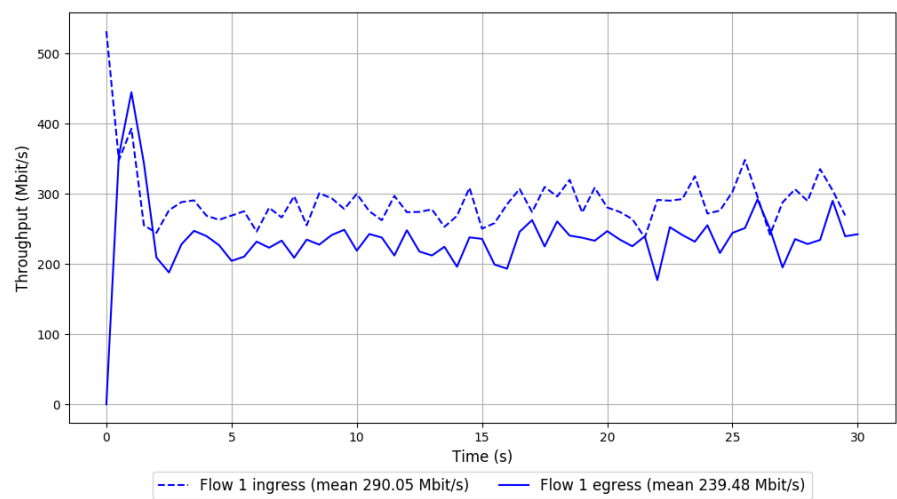
-- Flow 1:

Average throughput: 239.48 Mbit/s

95th percentile per-packet one-way delay: 42.534 ms

Loss rate: 17.43%

Run 6: Report of Verus — Data Link



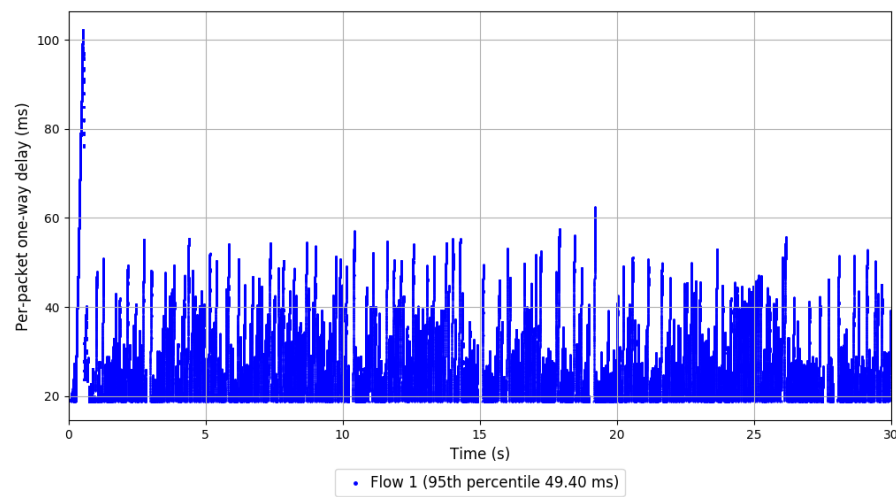
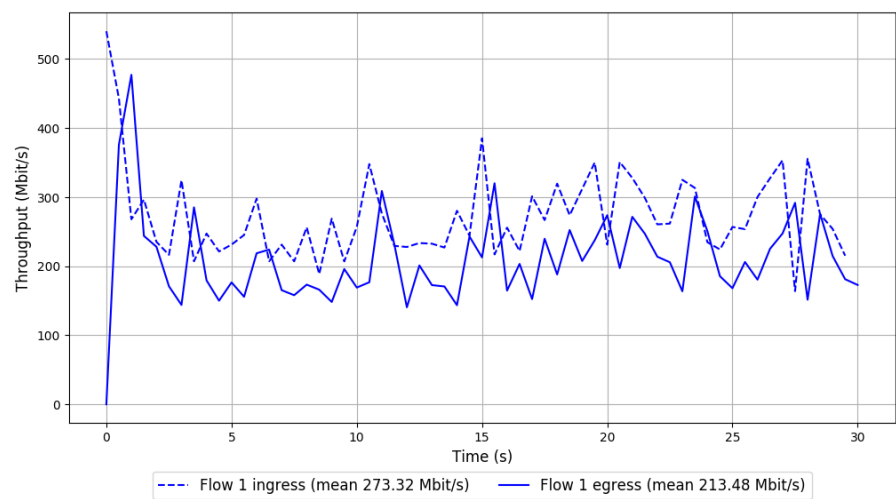
Run 7: Statistics of Verus

Start at: 2018-05-22 00:17:40  
End at: 2018-05-22 00:18:10  
Local clock offset: 0.091 ms  
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2018-05-22 03:10:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 213.48 Mbit/s  
95th percentile per-packet one-way delay: 49.400 ms  
Loss rate: 21.89%  
-- Flow 1:  
Average throughput: 213.48 Mbit/s  
95th percentile per-packet one-way delay: 49.400 ms  
Loss rate: 21.89%



Run 7: Report of Verus — Data Link

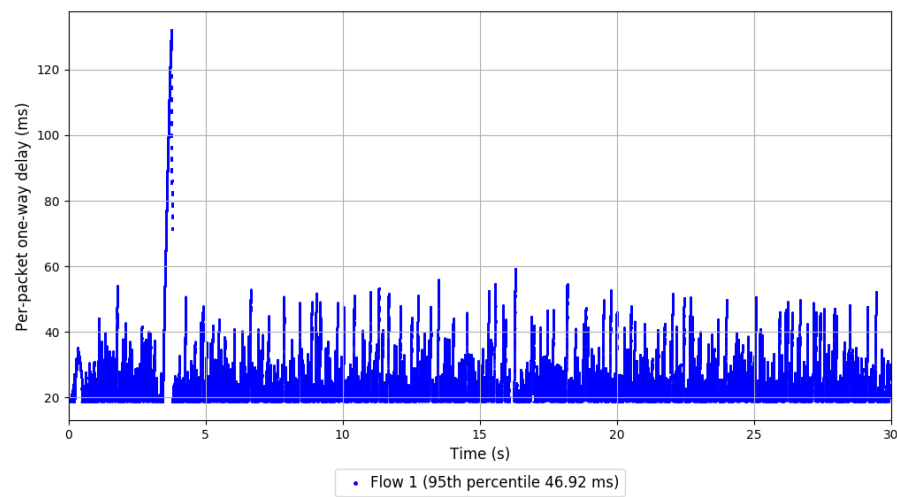
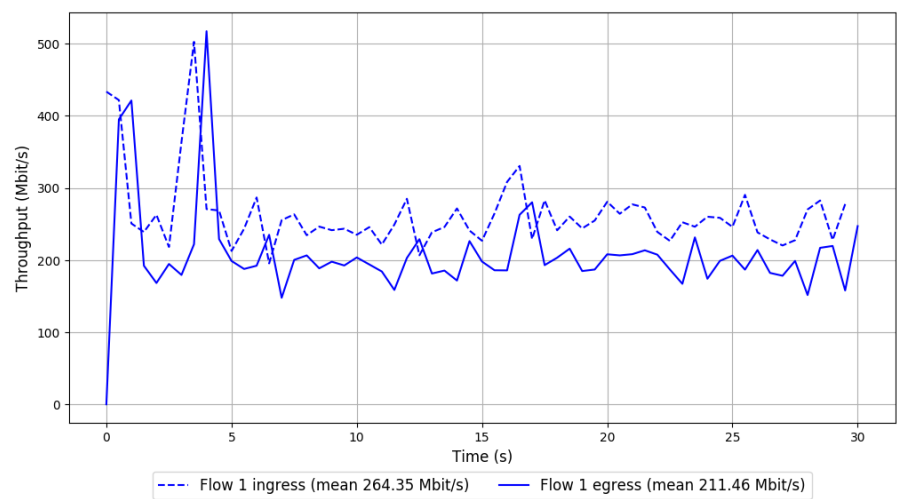


Run 8: Statistics of Verus

Start at: 2018-05-22 00:41:25  
End at: 2018-05-22 00:41:55  
Local clock offset: 0.24 ms  
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2018-05-22 03:11:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 211.46 Mbit/s  
95th percentile per-packet one-way delay: 46.916 ms  
Loss rate: 20.00%  
-- Flow 1:  
Average throughput: 211.46 Mbit/s  
95th percentile per-packet one-way delay: 46.916 ms  
Loss rate: 20.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-05-22 01:05:05

End at: 2018-05-22 01:05:35

Local clock offset: 0.054 ms

Remote clock offset: 0.068 ms

# Below is generated by plot.py at 2018-05-22 03:11:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 179.58 Mbit/s

95th percentile per-packet one-way delay: 51.323 ms

Loss rate: 21.33%

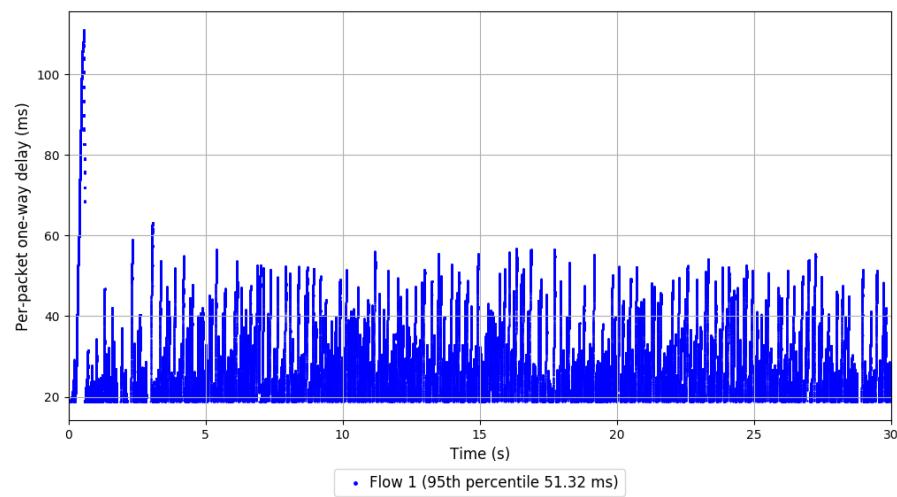
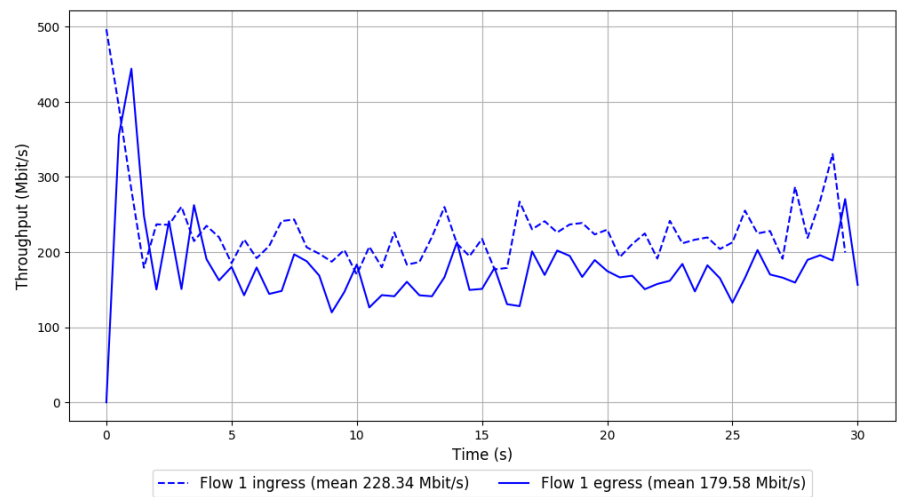
-- Flow 1:

Average throughput: 179.58 Mbit/s

95th percentile per-packet one-way delay: 51.323 ms

Loss rate: 21.33%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-05-22 01:28:38

End at: 2018-05-22 01:29:08

Local clock offset: -0.036 ms

Remote clock offset: 0.075 ms

# Below is generated by plot.py at 2018-05-22 03:12:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 223.76 Mbit/s

95th percentile per-packet one-way delay: 58.772 ms

Loss rate: 21.32%

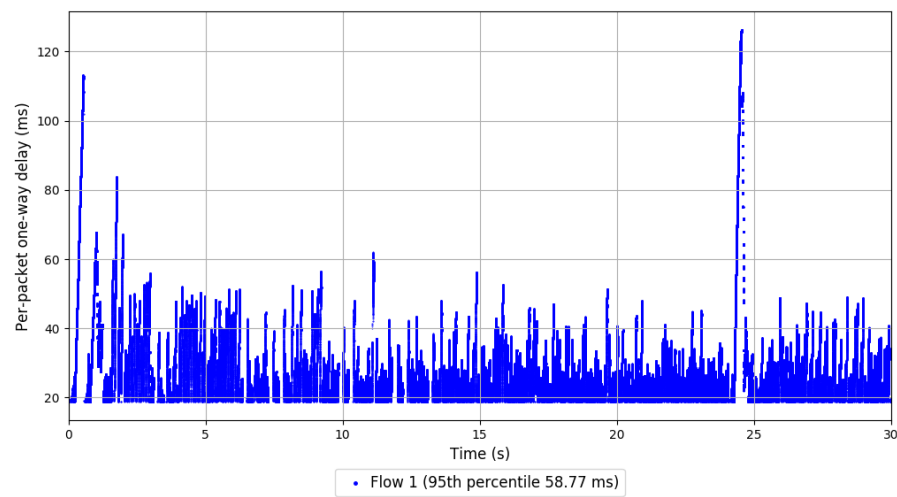
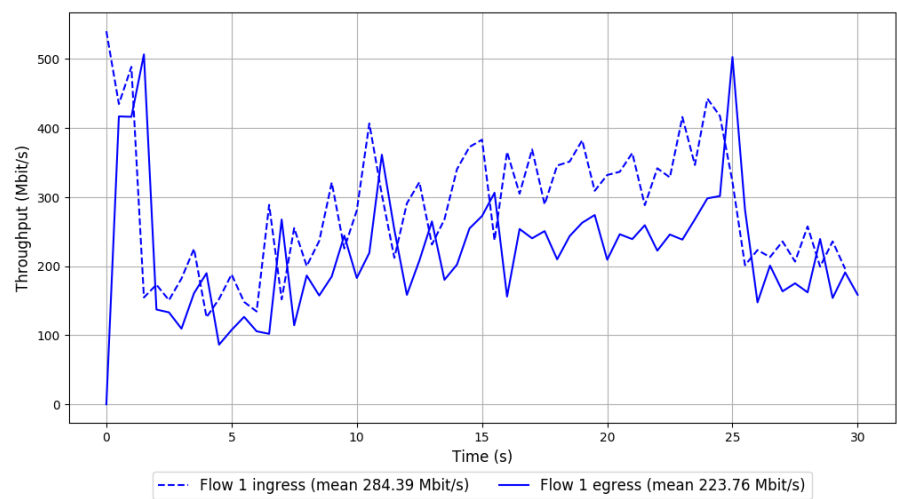
-- Flow 1:

Average throughput: 223.76 Mbit/s

95th percentile per-packet one-way delay: 58.772 ms

Loss rate: 21.32%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-05-21 21:49:30

End at: 2018-05-21 21:50:00

Local clock offset: -2.132 ms

Remote clock offset: 3.154 ms

# Below is generated by plot.py at 2018-05-22 03:15:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 458.99 Mbit/s

95th percentile per-packet one-way delay: 54.940 ms

Loss rate: 0.02%

-- Flow 1:

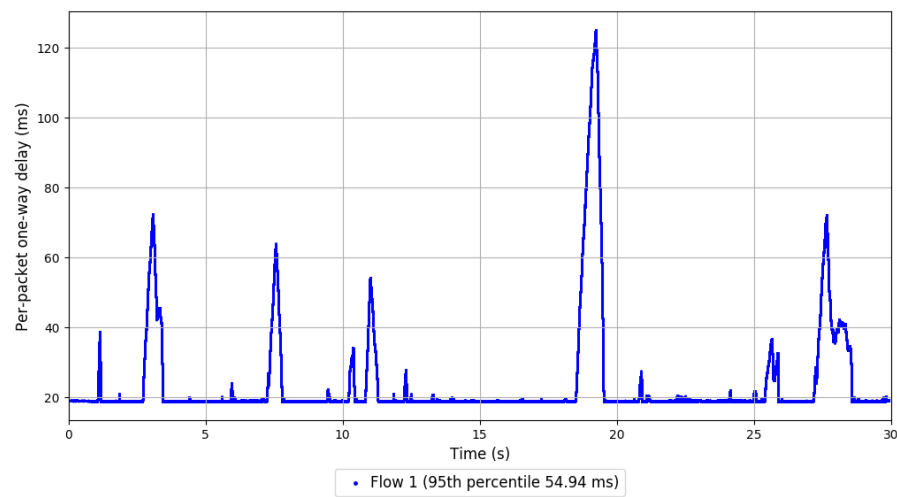
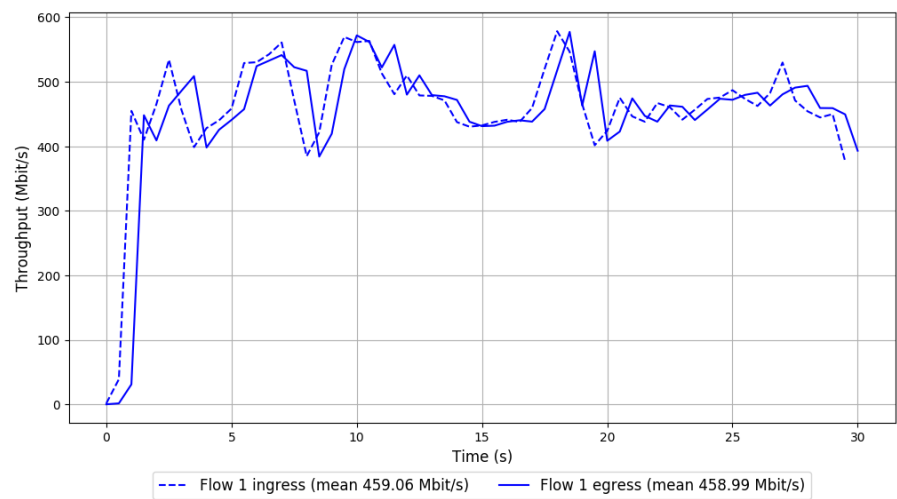
Average throughput: 458.99 Mbit/s

95th percentile per-packet one-way delay: 54.940 ms

Loss rate: 0.02%



Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-05-21 22:13:34

End at: 2018-05-21 22:14:04

Local clock offset: -0.981 ms

Remote clock offset: 2.582 ms

# Below is generated by plot.py at 2018-05-22 03:15:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 442.90 Mbit/s

95th percentile per-packet one-way delay: 22.196 ms

Loss rate: 0.06%

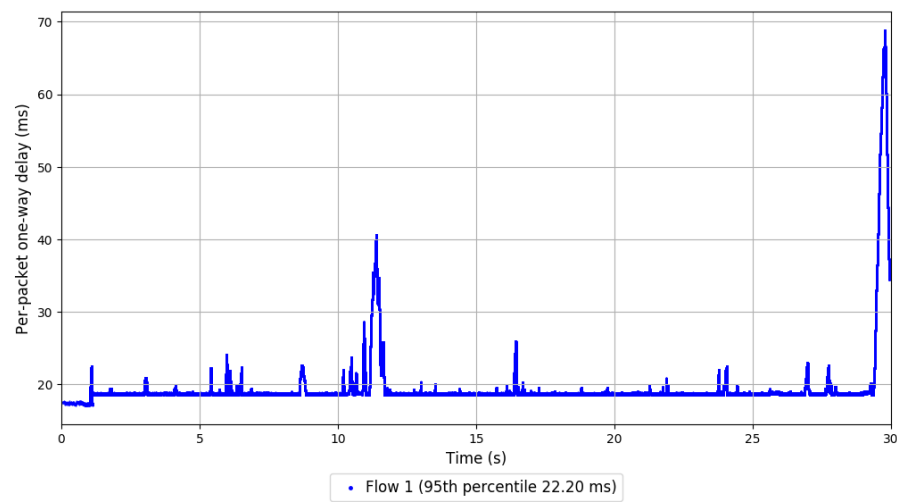
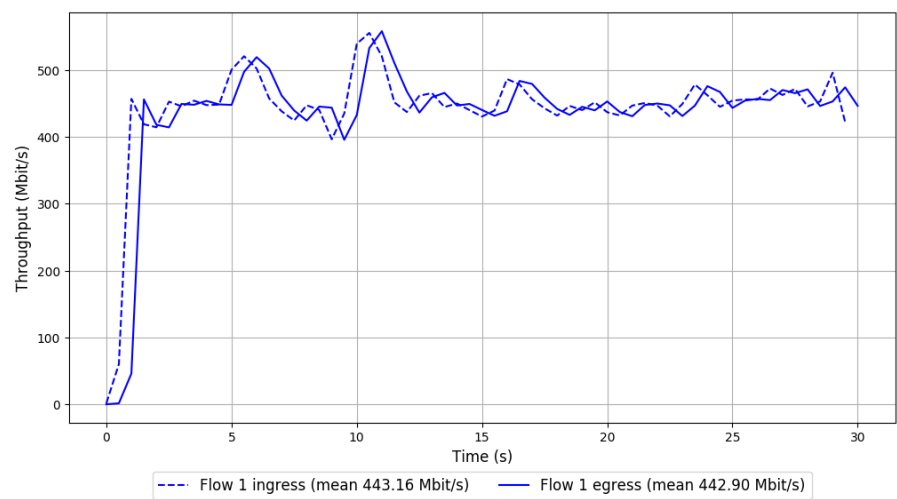
-- Flow 1:

Average throughput: 442.90 Mbit/s

95th percentile per-packet one-way delay: 22.196 ms

Loss rate: 0.06%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-05-21 22:37:23

End at: 2018-05-21 22:37:53

Local clock offset: 1.101 ms

Remote clock offset: 1.116 ms

# Below is generated by plot.py at 2018-05-22 03:16:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 449.85 Mbit/s

95th percentile per-packet one-way delay: 93.229 ms

Loss rate: 0.00%

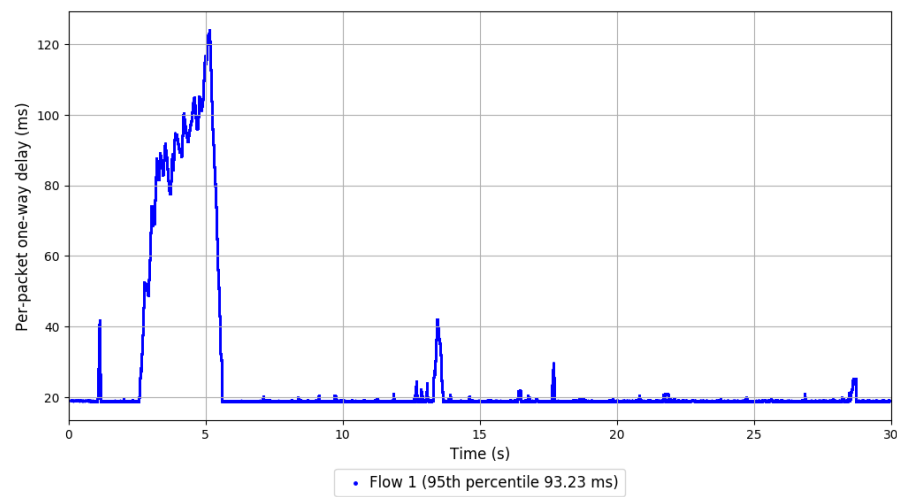
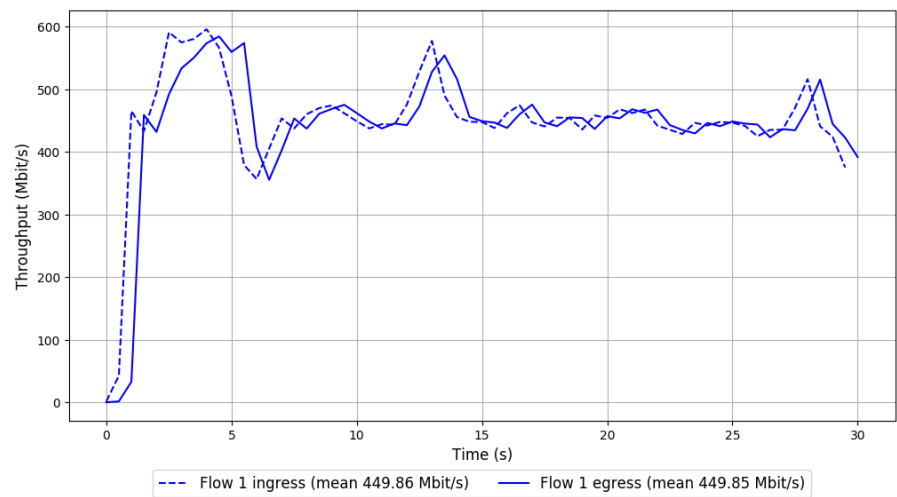
-- Flow 1:

Average throughput: 449.85 Mbit/s

95th percentile per-packet one-way delay: 93.229 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-05-21 23:01:21

End at: 2018-05-21 23:01:51

Local clock offset: 1.076 ms

Remote clock offset: 0.604 ms

# Below is generated by plot.py at 2018-05-22 03:16:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 422.48 Mbit/s

95th percentile per-packet one-way delay: 19.192 ms

Loss rate: 0.00%

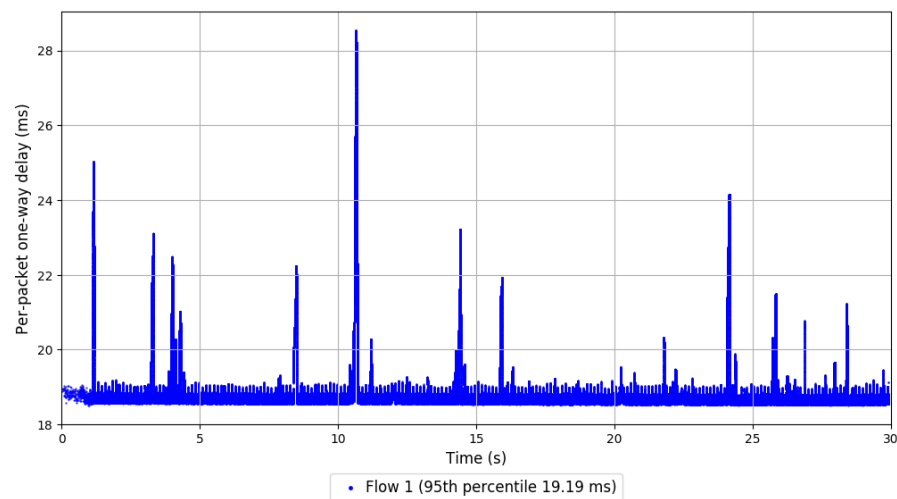
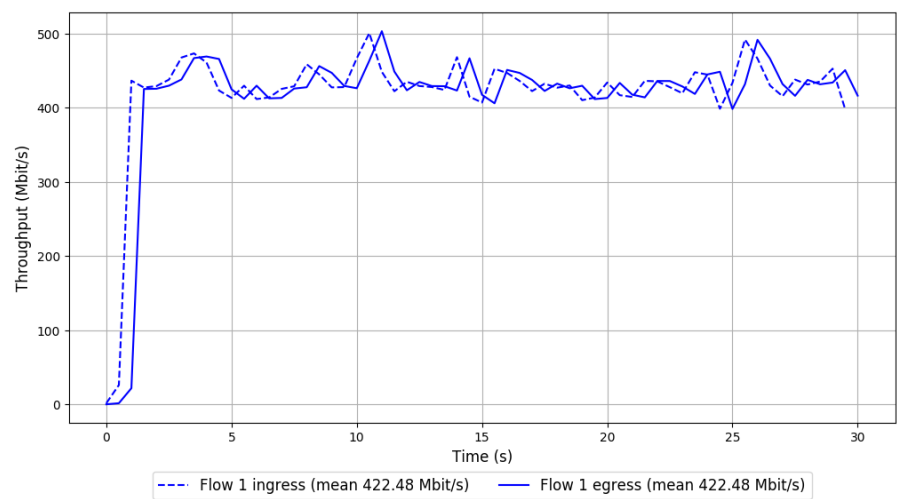
-- Flow 1:

Average throughput: 422.48 Mbit/s

95th percentile per-packet one-way delay: 19.192 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-05-21 23:25:16

End at: 2018-05-21 23:25:46

Local clock offset: -0.7 ms

Remote clock offset: 0.26 ms

# Below is generated by plot.py at 2018-05-22 03:16:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 437.15 Mbit/s

95th percentile per-packet one-way delay: 21.288 ms

Loss rate: 0.03%

-- Flow 1:

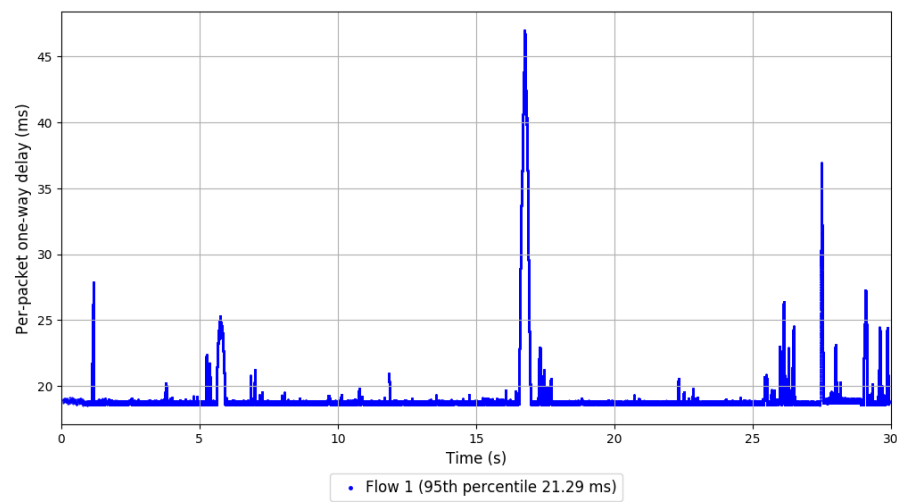
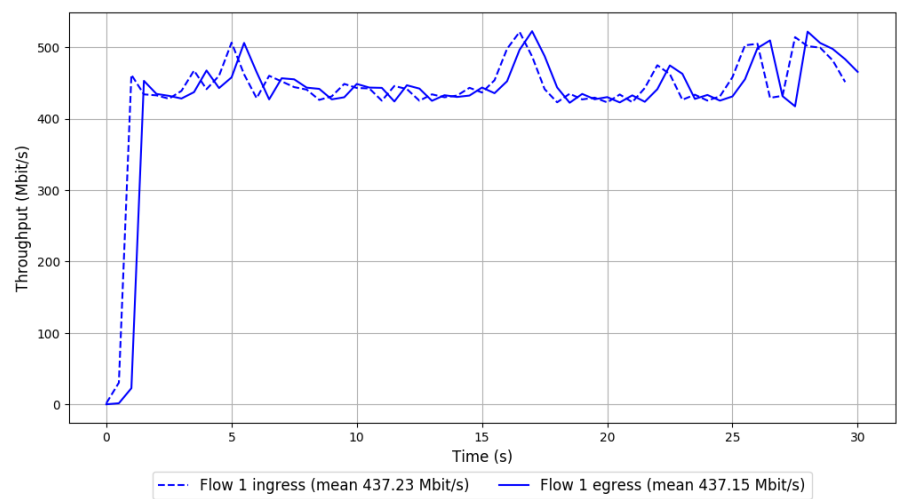
Average throughput: 437.15 Mbit/s

95th percentile per-packet one-way delay: 21.288 ms

Loss rate: 0.03%



Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-05-21 23:49:13

End at: 2018-05-21 23:49:43

Local clock offset: -0.275 ms

Remote clock offset: 0.031 ms

# Below is generated by plot.py at 2018-05-22 03:17:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 436.07 Mbit/s

95th percentile per-packet one-way delay: 30.510 ms

Loss rate: 0.16%

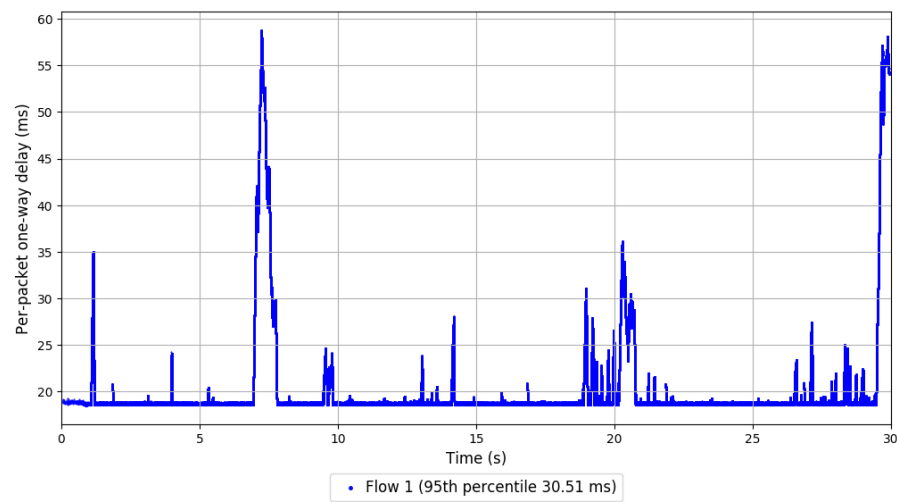
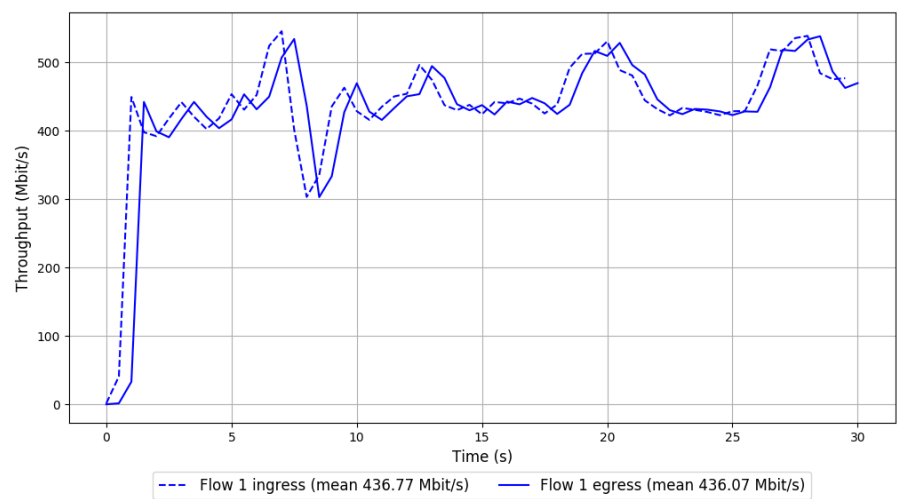
-- Flow 1:

Average throughput: 436.07 Mbit/s

95th percentile per-packet one-way delay: 30.510 ms

Loss rate: 0.16%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-05-22 00:13:06

End at: 2018-05-22 00:13:36

Local clock offset: 0.133 ms

Remote clock offset: 0.037 ms

# Below is generated by plot.py at 2018-05-22 03:17:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 415.90 Mbit/s

95th percentile per-packet one-way delay: 20.609 ms

Loss rate: 0.00%

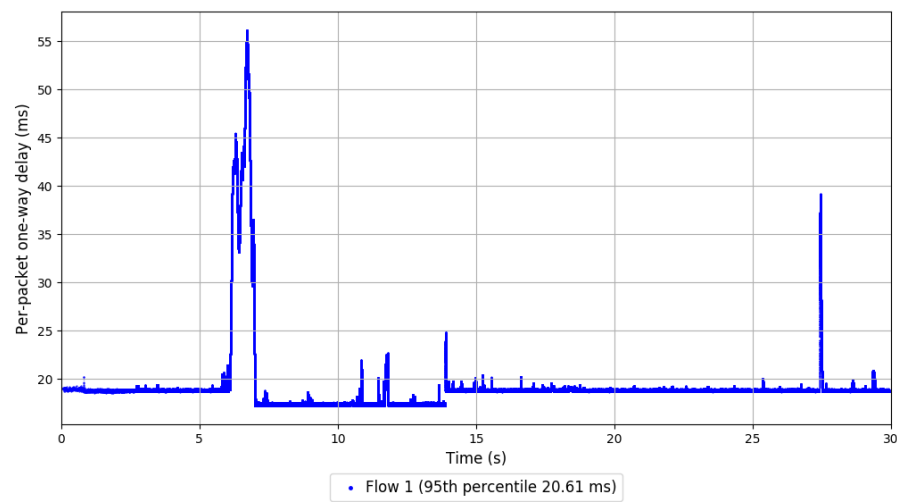
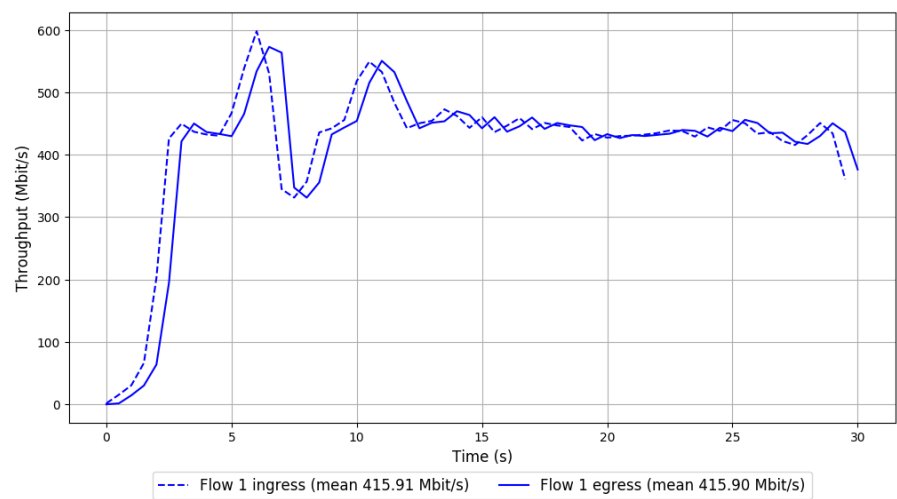
-- Flow 1:

Average throughput: 415.90 Mbit/s

95th percentile per-packet one-way delay: 20.609 ms

Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-05-22 00:36:51

End at: 2018-05-22 00:37:21

Local clock offset: 0.202 ms

Remote clock offset: 0.05 ms

# Below is generated by plot.py at 2018-05-22 03:17:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 448.62 Mbit/s

95th percentile per-packet one-way delay: 19.804 ms

Loss rate: 0.00%

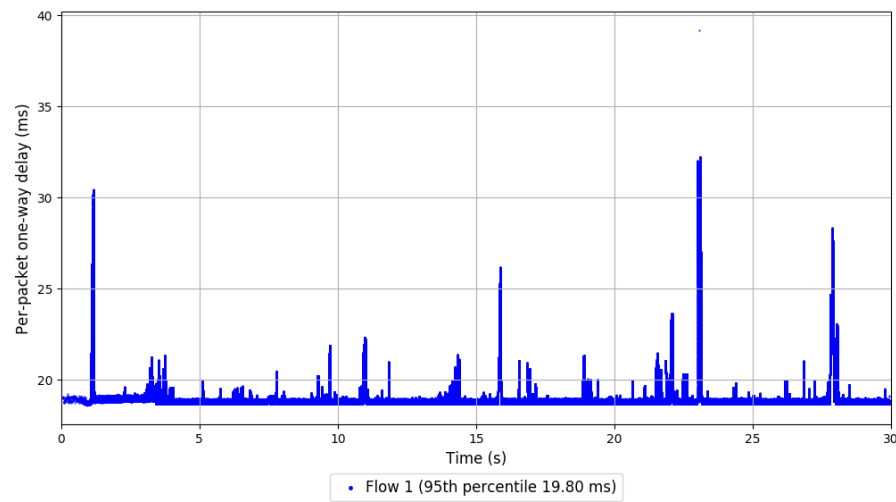
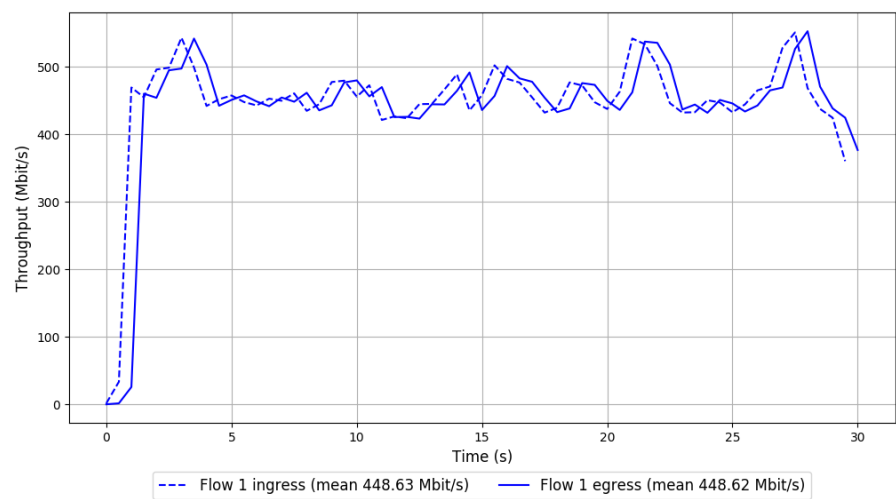
-- Flow 1:

Average throughput: 448.62 Mbit/s

95th percentile per-packet one-way delay: 19.804 ms

Loss rate: 0.00%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-05-22 01:00:31

End at: 2018-05-22 01:01:01

Local clock offset: 0.042 ms

Remote clock offset: 0.037 ms

# Below is generated by plot.py at 2018-05-22 03:18:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 446.76 Mbit/s

95th percentile per-packet one-way delay: 20.180 ms

Loss rate: 0.00%

-- Flow 1:

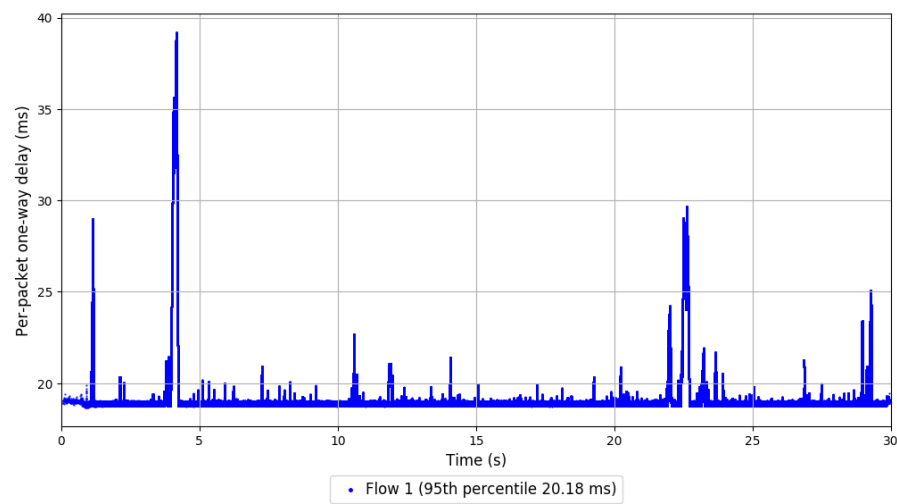
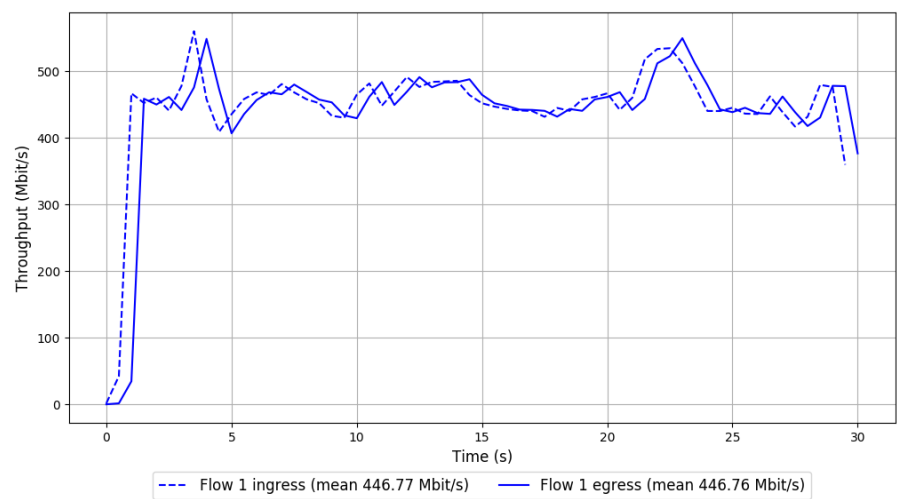
Average throughput: 446.76 Mbit/s

95th percentile per-packet one-way delay: 20.180 ms

Loss rate: 0.00%



Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-05-22 01:24:04

End at: 2018-05-22 01:24:34

Local clock offset: -0.073 ms

Remote clock offset: 0.118 ms

# Below is generated by plot.py at 2018-05-22 03:18:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 422.52 Mbit/s

95th percentile per-packet one-way delay: 20.638 ms

Loss rate: 0.07%

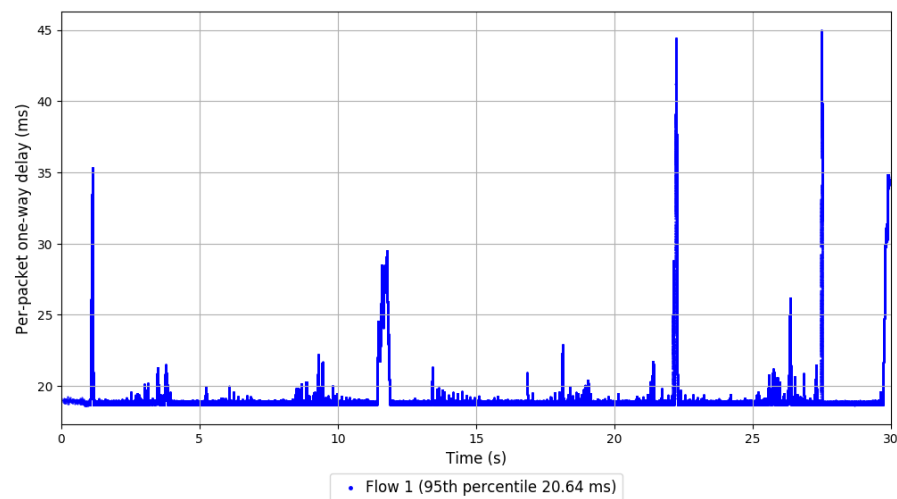
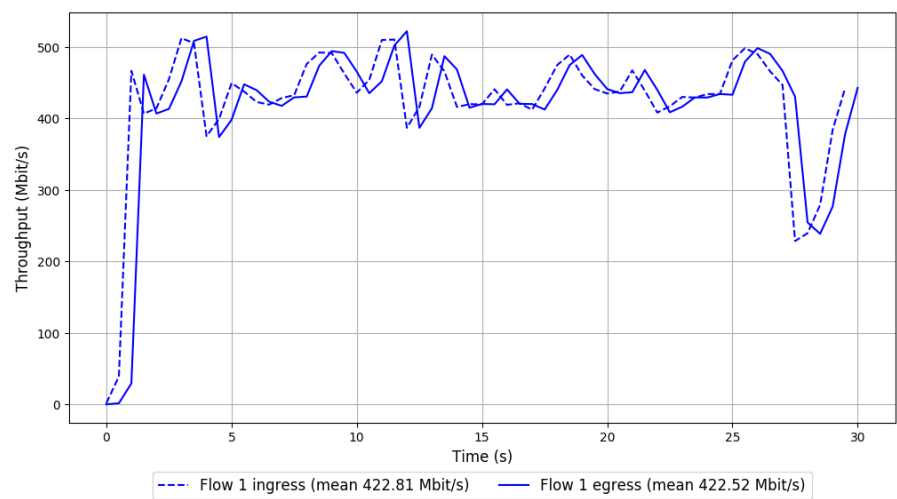
-- Flow 1:

Average throughput: 422.52 Mbit/s

95th percentile per-packet one-way delay: 20.638 ms

Loss rate: 0.07%

Run 10: Report of PCC-Vivace — Data Link

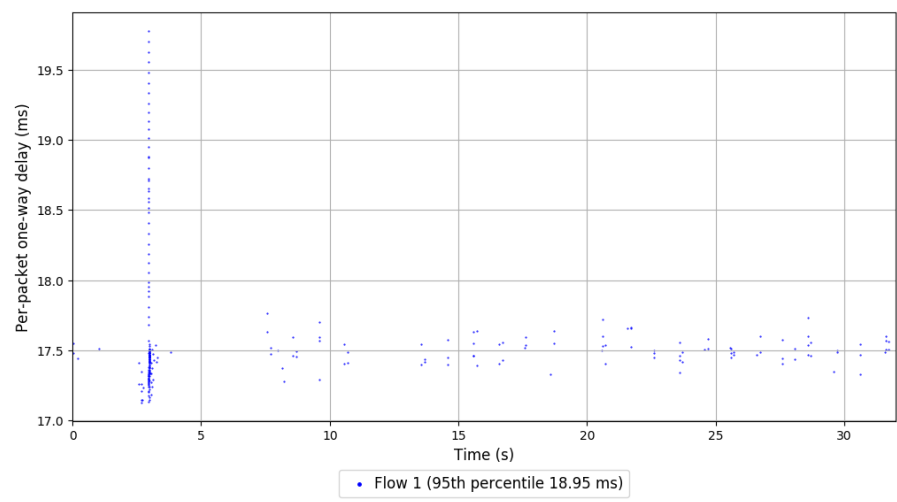
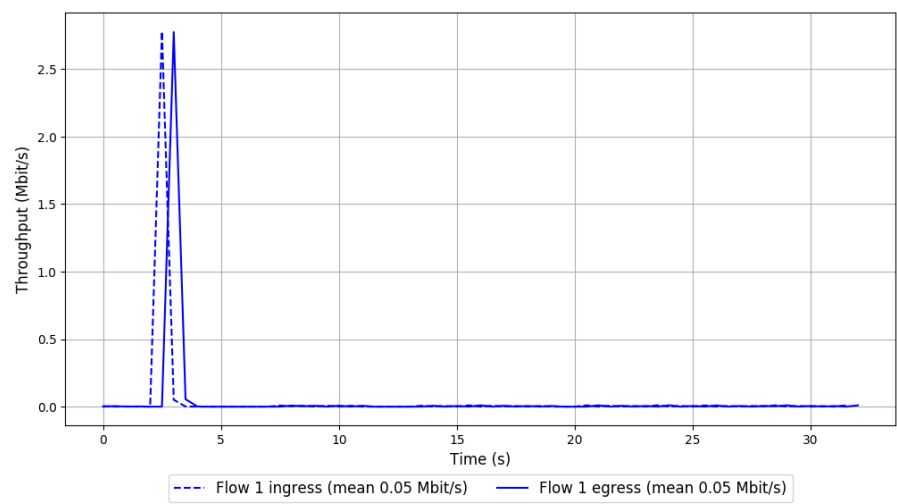


```
Run 1: Statistics of WebRTC media

Start at: 2018-05-21 21:48:12
End at: 2018-05-21 21:48:42
Local clock offset: -2.0 ms
Remote clock offset: 3.409 ms

# Below is generated by plot.py at 2018-05-22 03:18:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 18.947 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 18.947 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-05-21 22:12:16

End at: 2018-05-21 22:12:46

Local clock offset: -0.986 ms

Remote clock offset: 2.603 ms

# Below is generated by plot.py at 2018-05-22 03:18:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 19.087 ms

Loss rate: 0.00%

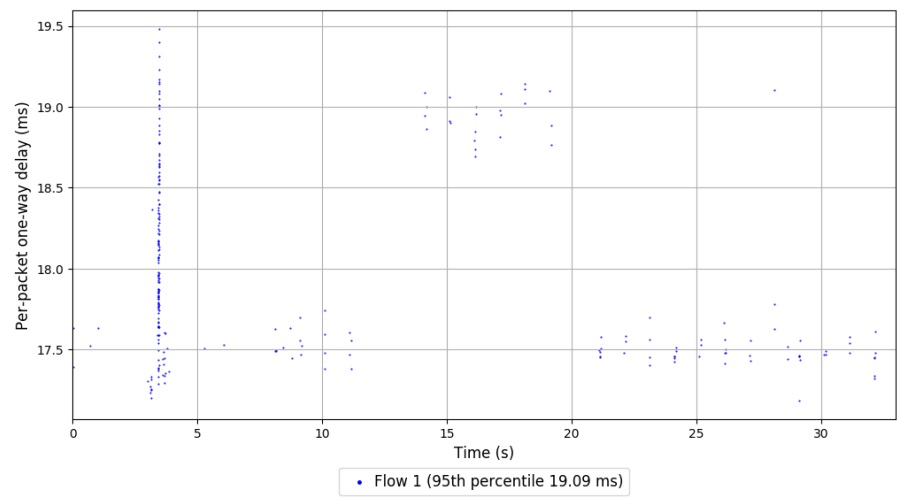
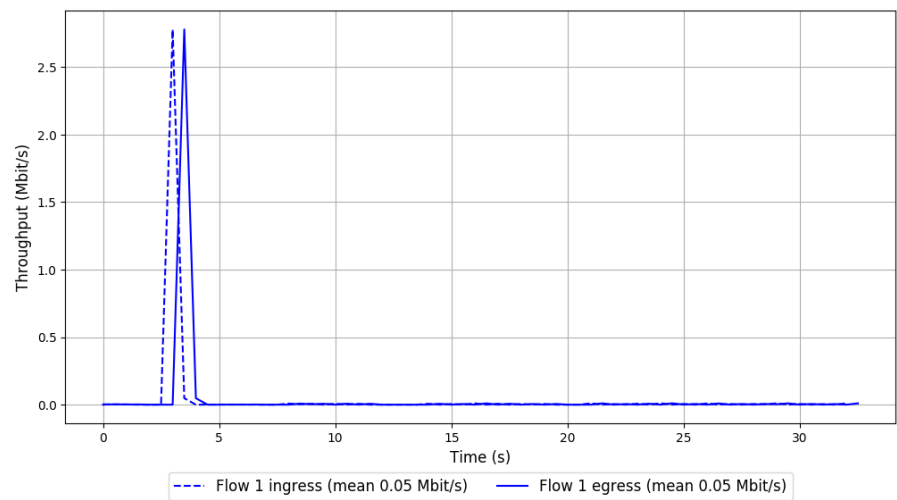
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 19.087 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-05-21 22:36:05

End at: 2018-05-21 22:36:35

Local clock offset: 0.917 ms

Remote clock offset: 1.047 ms

# Below is generated by plot.py at 2018-05-22 03:18:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 20.537 ms

Loss rate: 0.00%

-- Flow 1:

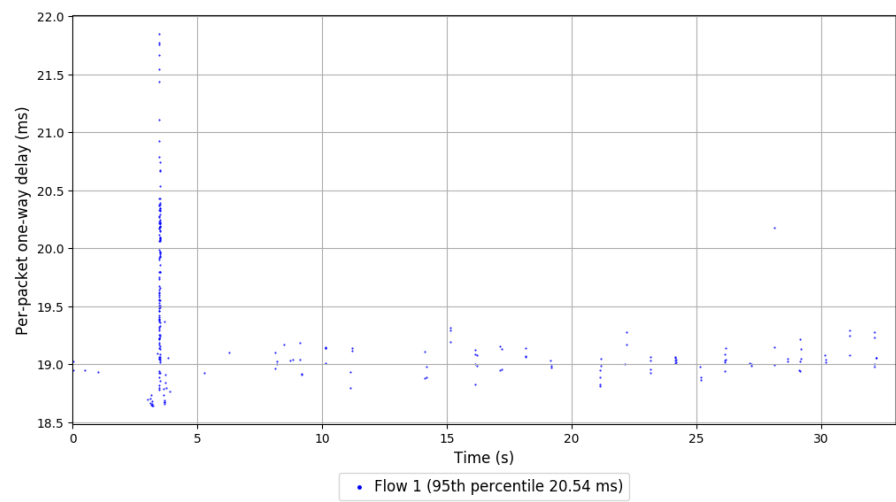
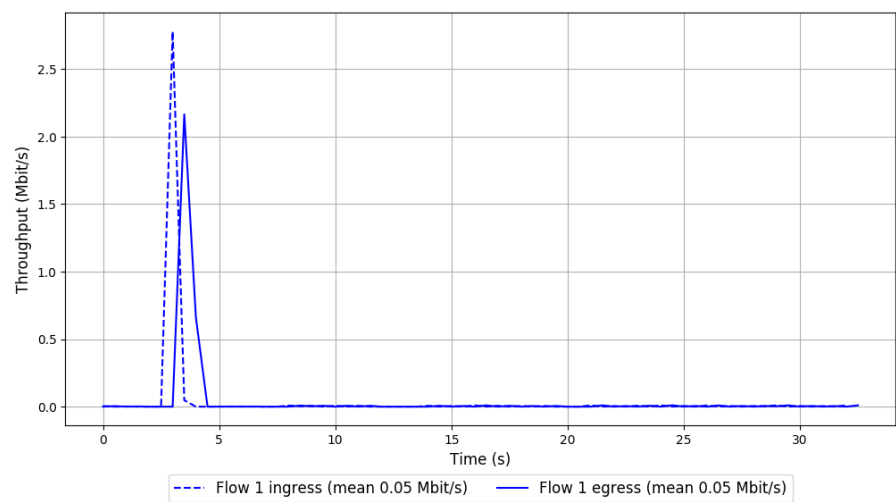
Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 20.537 ms

Loss rate: 0.00%



Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-05-21 23:00:03

End at: 2018-05-21 23:00:33

Local clock offset: 1.278 ms

Remote clock offset: 0.656 ms

# Below is generated by plot.py at 2018-05-22 03:18:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 18.795 ms

Loss rate: 0.00%

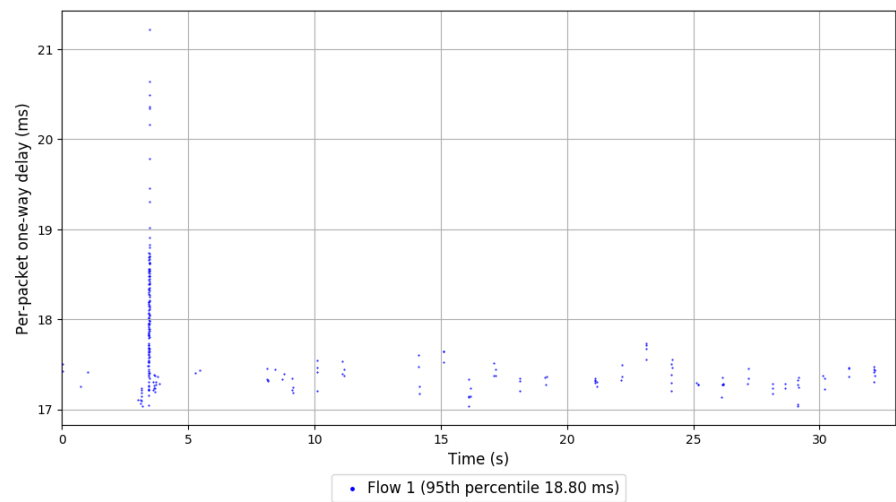
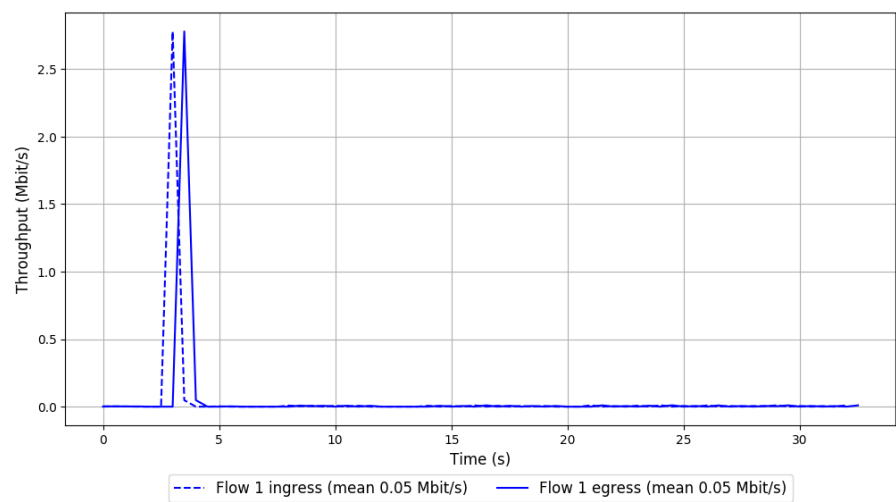
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 18.795 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-05-21 23:23:59

End at: 2018-05-21 23:24:29

Local clock offset: -0.627 ms

Remote clock offset: 0.365 ms

# Below is generated by plot.py at 2018-05-22 03:18:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 20.951 ms

Loss rate: 0.00%

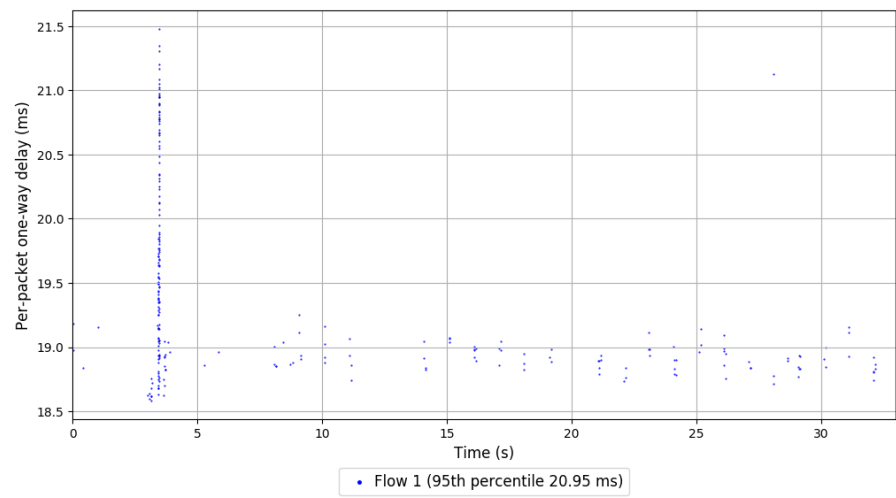
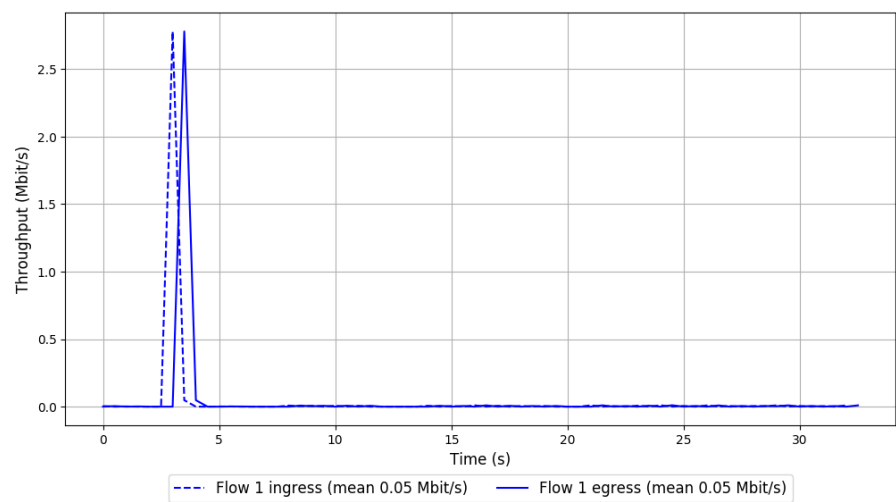
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 20.951 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-05-21 23:47:55

End at: 2018-05-21 23:48:25

Local clock offset: -0.369 ms

Remote clock offset: 0.062 ms

# Below is generated by plot.py at 2018-05-22 03:18:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 19.432 ms

Loss rate: 0.00%

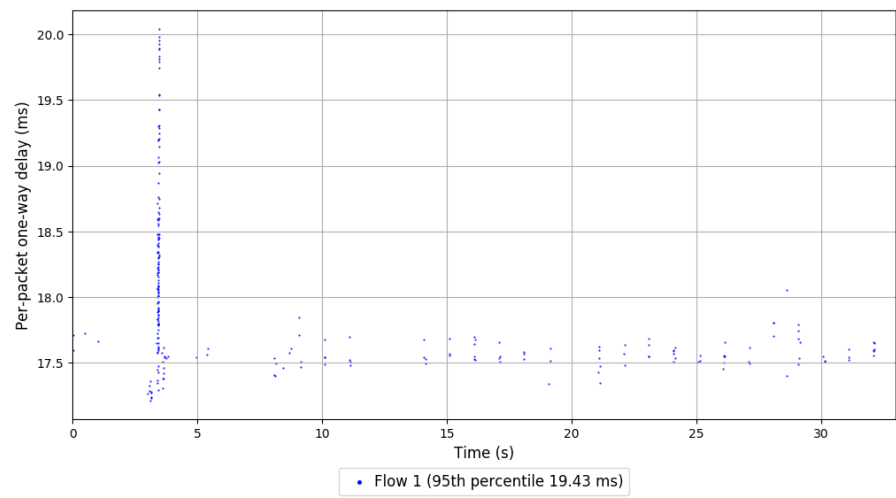
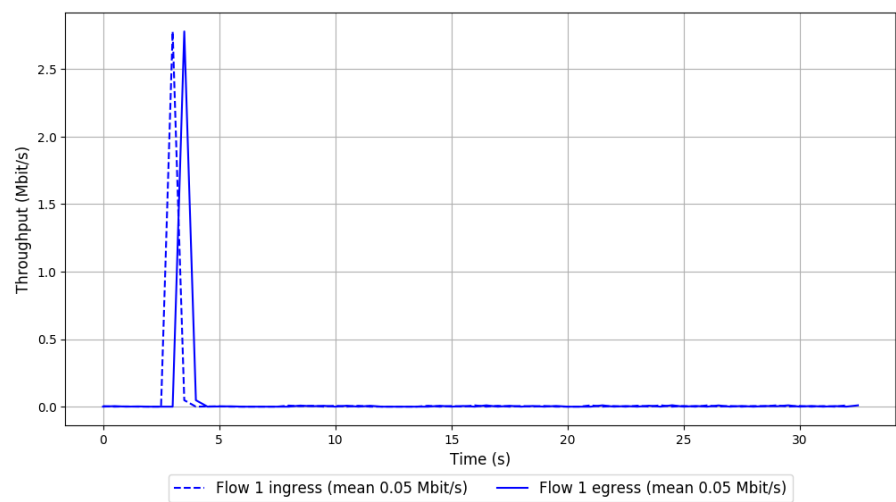
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 19.432 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-05-22 00:11:49

End at: 2018-05-22 00:12:19

Local clock offset: 0.033 ms

Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2018-05-22 03:18:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 19.028 ms

Loss rate: 0.00%

-- Flow 1:

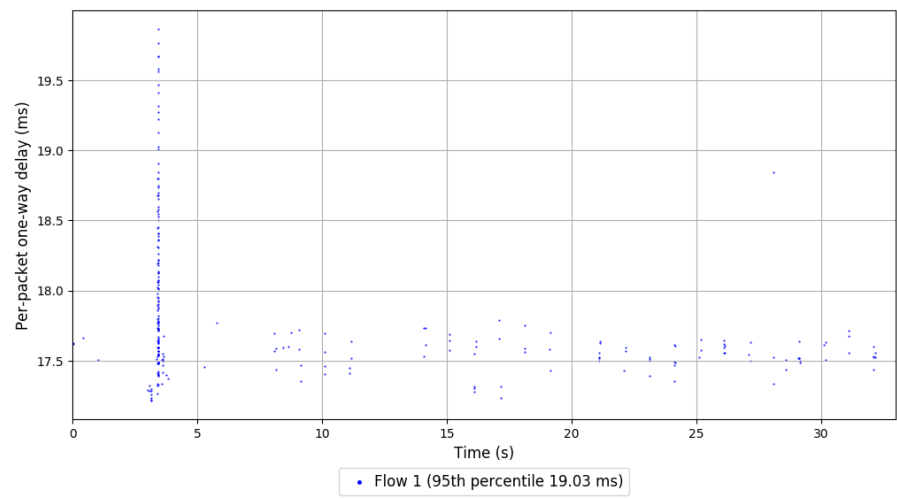
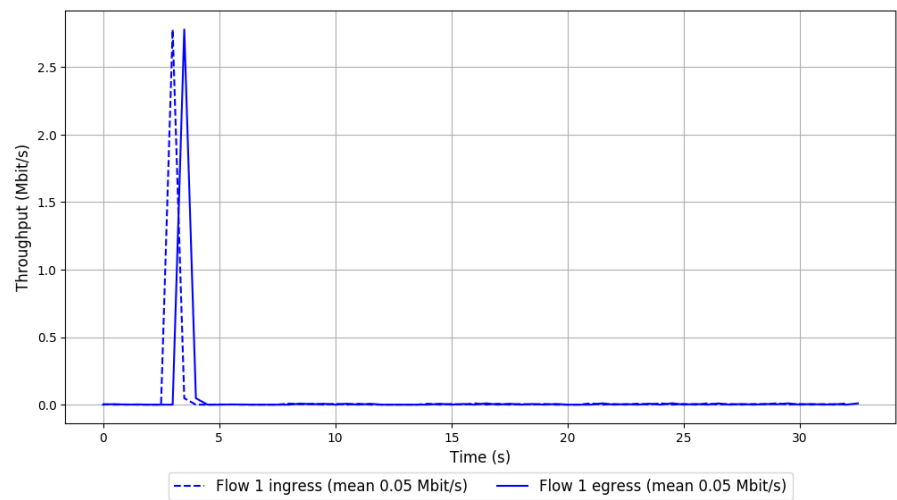
Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 19.028 ms

Loss rate: 0.00%



Run 7: Report of WebRTC media — Data Link

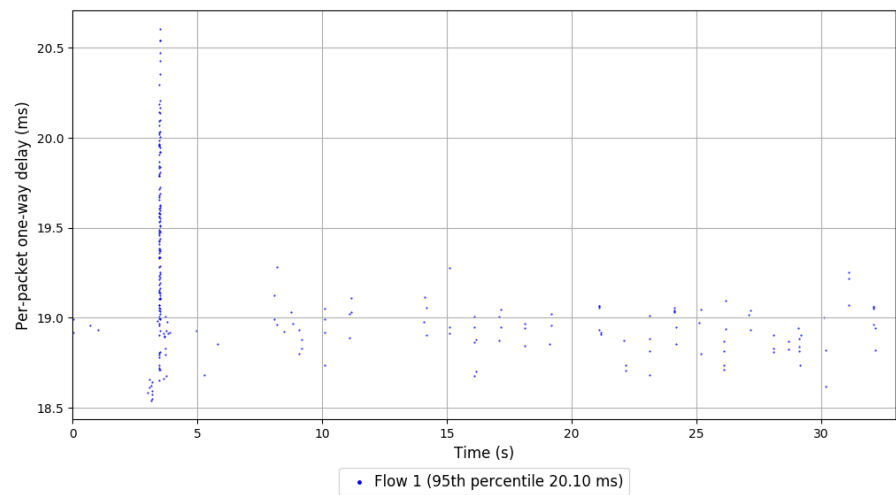
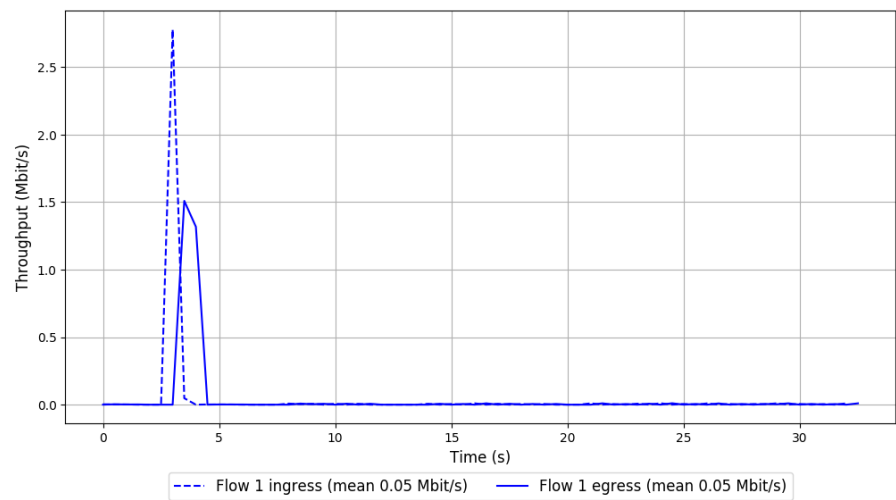


Run 8: Statistics of WebRTC media

Start at: 2018-05-22 00:35:34  
End at: 2018-05-22 00:36:04  
Local clock offset: 0.197 ms  
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2018-05-22 03:18:11  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 20.099 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 20.099 ms  
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-05-22 00:59:14

End at: 2018-05-22 00:59:44

Local clock offset: 0.056 ms

Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2018-05-22 03:18:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 20.258 ms

Loss rate: 0.00%

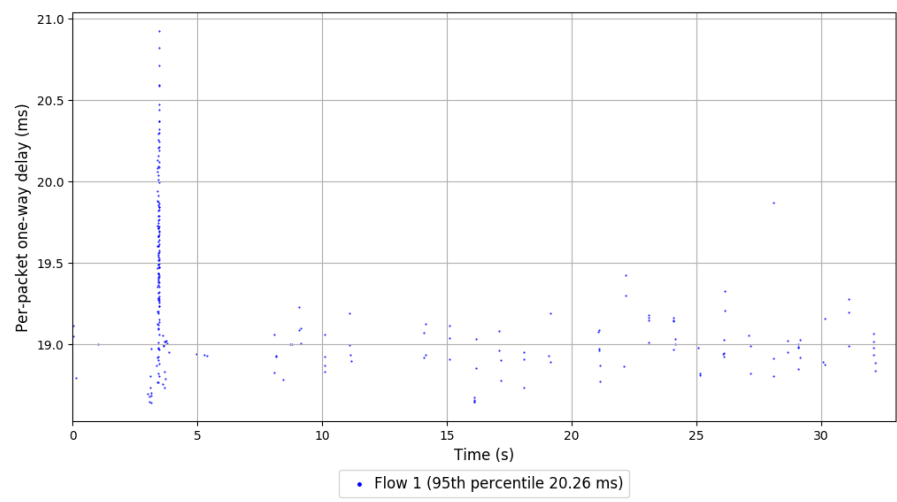
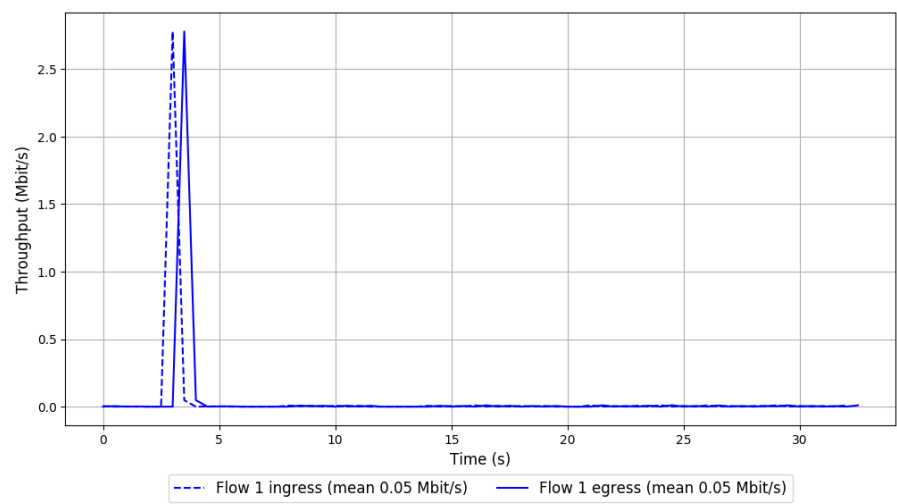
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 20.258 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-22 01:22:47

End at: 2018-05-22 01:23:17

Local clock offset: 0.018 ms

Remote clock offset: 0.171 ms

# Below is generated by plot.py at 2018-05-22 03:18:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 20.057 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 20.057 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

