

## Pantheon Report

Generated at 2018-05-22 12:41:34 (UTC).

Data path: GCE Iowa Ethernet (*remote*) → GCE Sydney Ethernet (*local*).

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

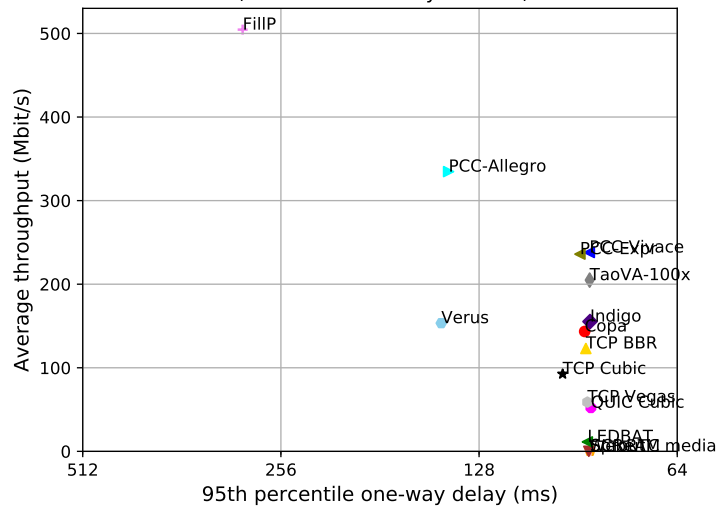
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

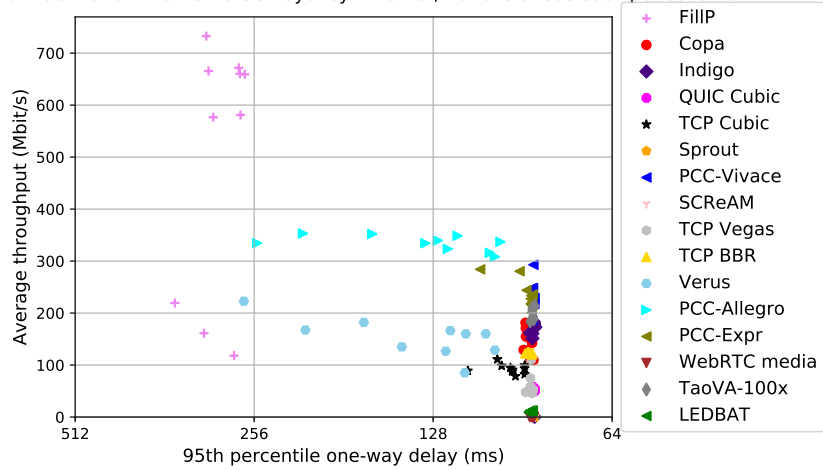
Git summary:

```
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-quic @ 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 GCE Iowa Ethernet to GCE Sydney Ethernet, 10 runs of 30s each per scheme  
(mean of all runs by scheme)



test from GCE Iowa Ethernet to GCE Sydney 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	123.09	88.11	0.61
Copa	10	143.44	88.47	0.53
TCP Cubic	10	92.60	95.56	0.62
FillP	10	504.57	292.65	1.70
Indigo	10	155.29	86.84	0.56
LEDBAT	10	11.33	87.64	1.19
PCC-Allegro	10	334.70	142.40	0.89
PCC-Expr	10	235.96	89.96	0.68
QUIC Cubic	10	52.20	86.57	0.83
SCReAM	10	0.22	86.71	0.56
Sprout	10	0.28	86.83	0.38
TaoVA-100x	10	204.85	86.95	0.63
TCP Vegas	10	58.90	87.63	0.61
Verus	10	153.38	146.11	1.30
PCC-Vivace	10	237.92	87.04	0.73
WebRTC media	9	0.05	87.20	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-05-22 08:22:26

End at: 2018-05-22 08:22:56

Local clock offset: 0.121 ms

Remote clock offset: 0.062 ms

# Below is generated by plot.py at 2018-05-22 11:41:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 123.40 Mbit/s

95th percentile per-packet one-way delay: 88.585 ms

Loss rate: 0.65%

-- Flow 1:

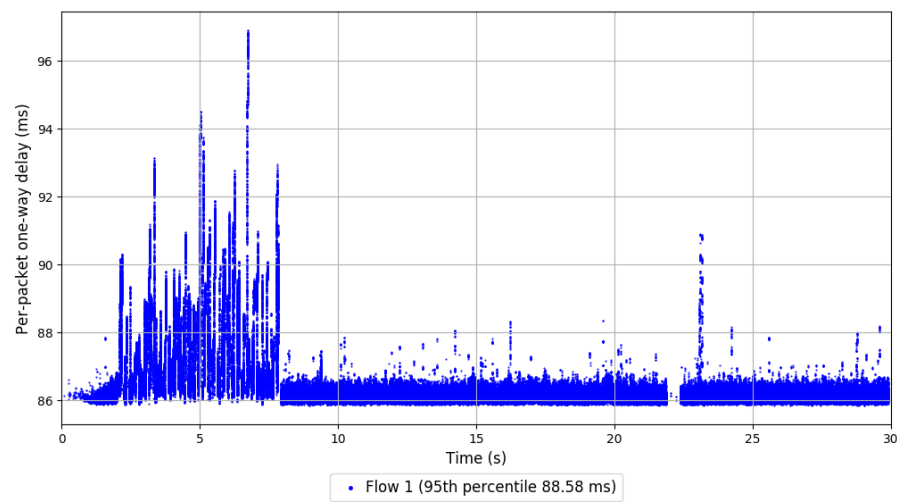
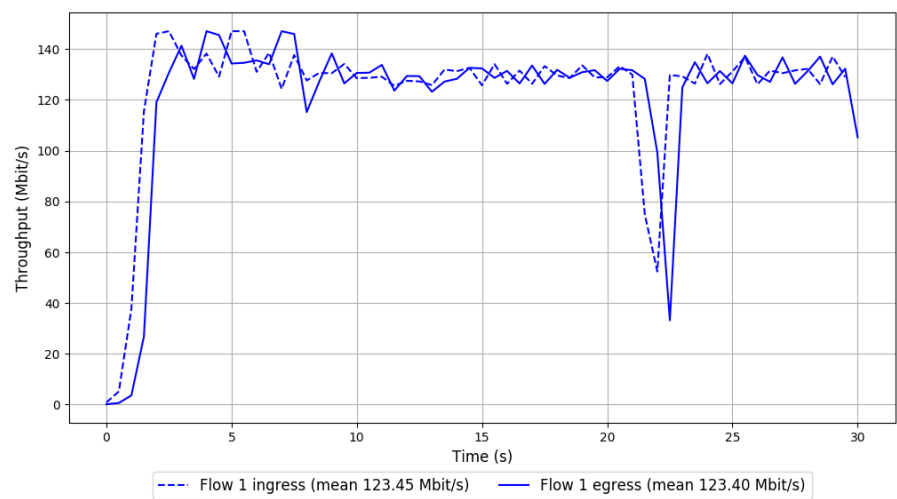
Average throughput: 123.40 Mbit/s

95th percentile per-packet one-way delay: 88.585 ms

Loss rate: 0.65%



Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-05-22 08:42:28

End at: 2018-05-22 08:42:58

Local clock offset: -0.421 ms

Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2018-05-22 11:41:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 123.39 Mbit/s

95th percentile per-packet one-way delay: 87.493 ms

Loss rate: 0.59%

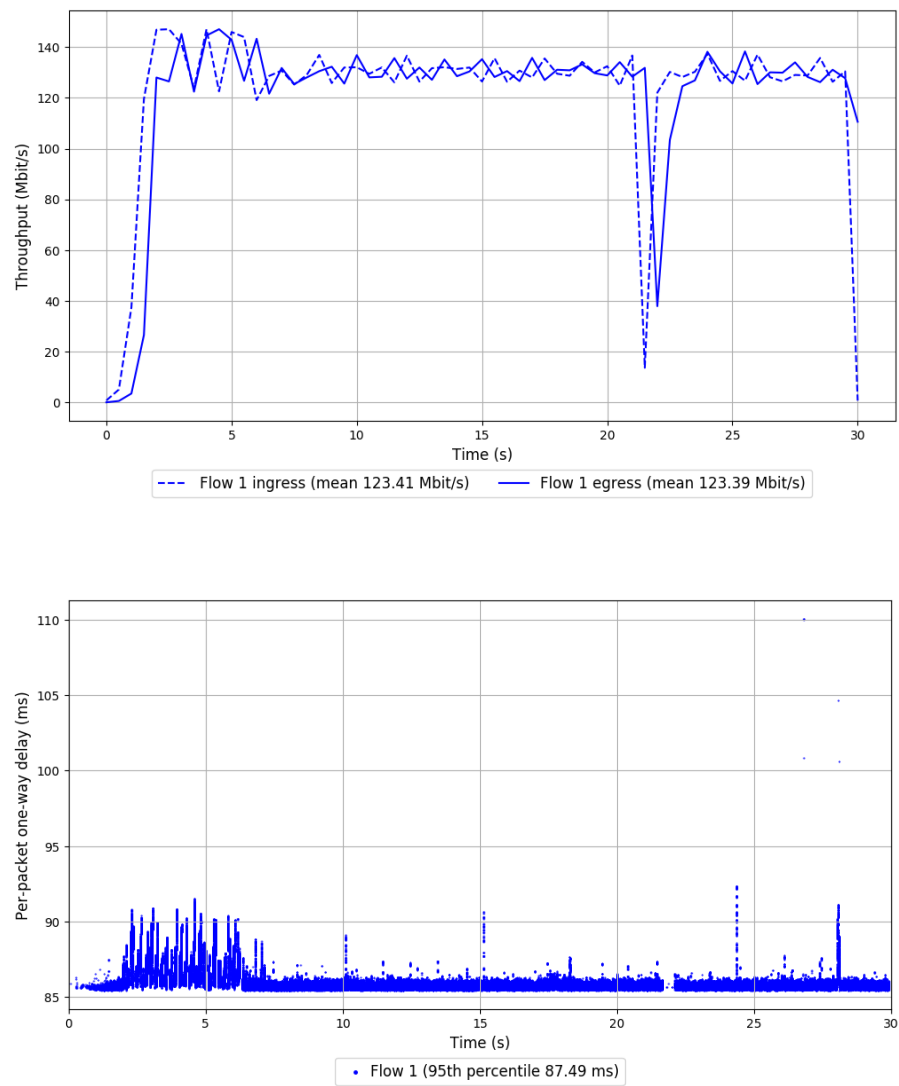
-- Flow 1:

Average throughput: 123.39 Mbit/s

95th percentile per-packet one-way delay: 87.493 ms

Loss rate: 0.59%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-05-22 09:02:48

End at: 2018-05-22 09:03:18

Local clock offset: 0.23 ms

Remote clock offset: 0.119 ms

# Below is generated by plot.py at 2018-05-22 11:41:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 122.59 Mbit/s

95th percentile per-packet one-way delay: 88.139 ms

Loss rate: 0.60%

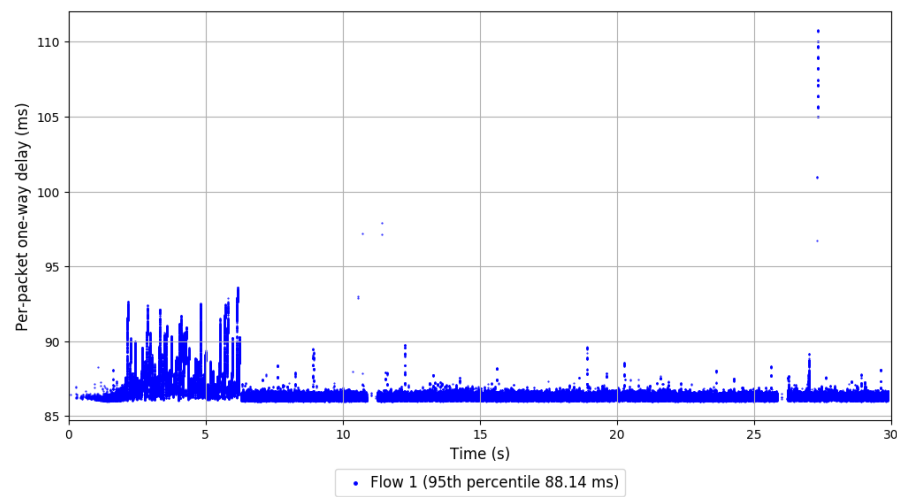
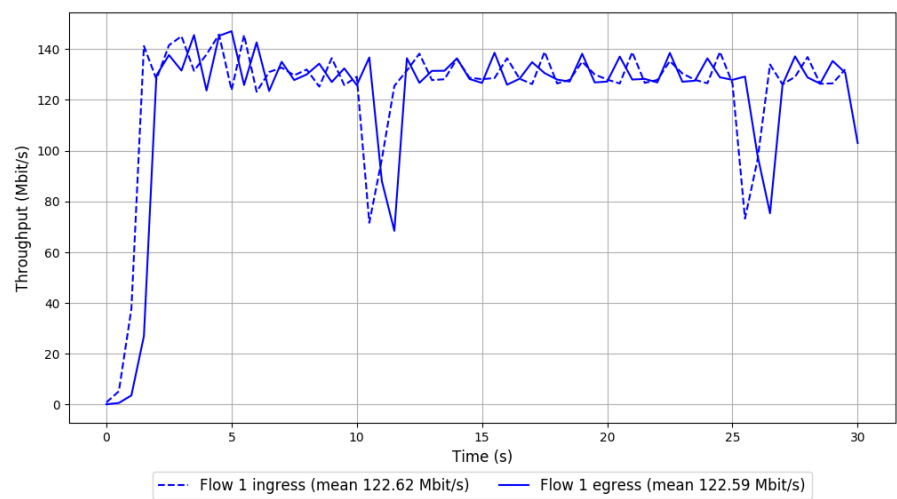
-- Flow 1:

Average throughput: 122.59 Mbit/s

95th percentile per-packet one-way delay: 88.139 ms

Loss rate: 0.60%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-05-22 09:23:07

End at: 2018-05-22 09:23:37

Local clock offset: 0.117 ms

Remote clock offset: 0.099 ms

# Below is generated by plot.py at 2018-05-22 11:41:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 124.68 Mbit/s

95th percentile per-packet one-way delay: 88.510 ms

Loss rate: 0.59%

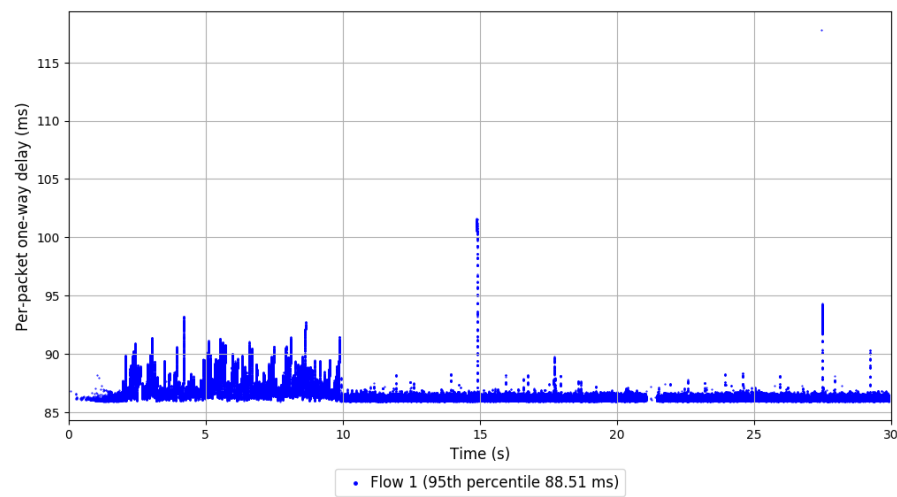
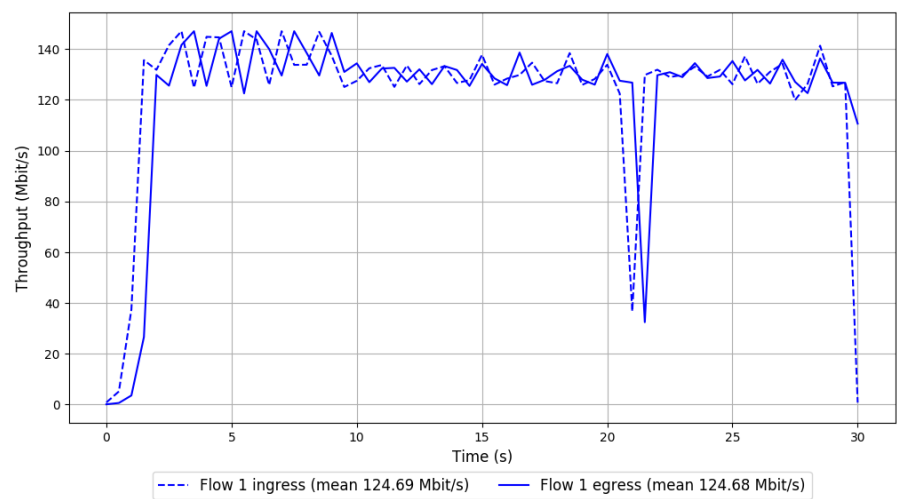
-- Flow 1:

Average throughput: 124.68 Mbit/s

95th percentile per-packet one-way delay: 88.510 ms

Loss rate: 0.59%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-05-22 09:43:27

End at: 2018-05-22 09:43:57

Local clock offset: 0.12 ms

Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2018-05-22 11:41:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 123.98 Mbit/s

95th percentile per-packet one-way delay: 88.211 ms

Loss rate: 0.60%

-- Flow 1:

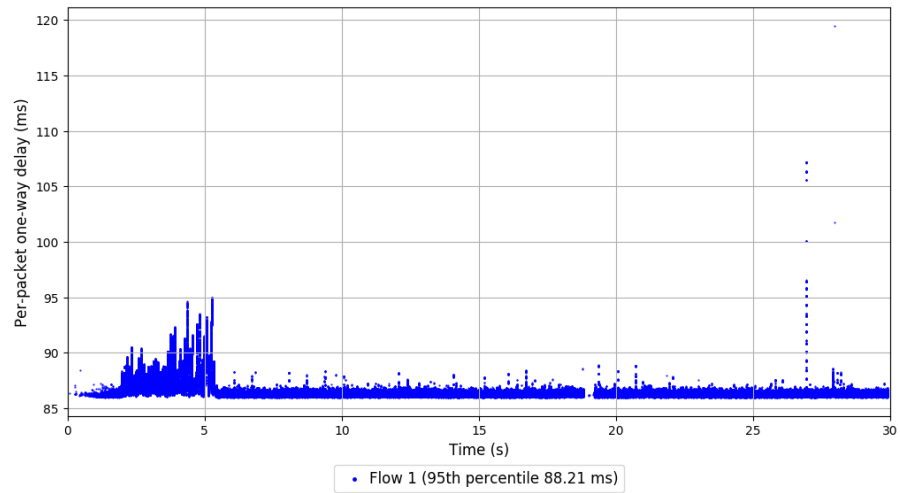
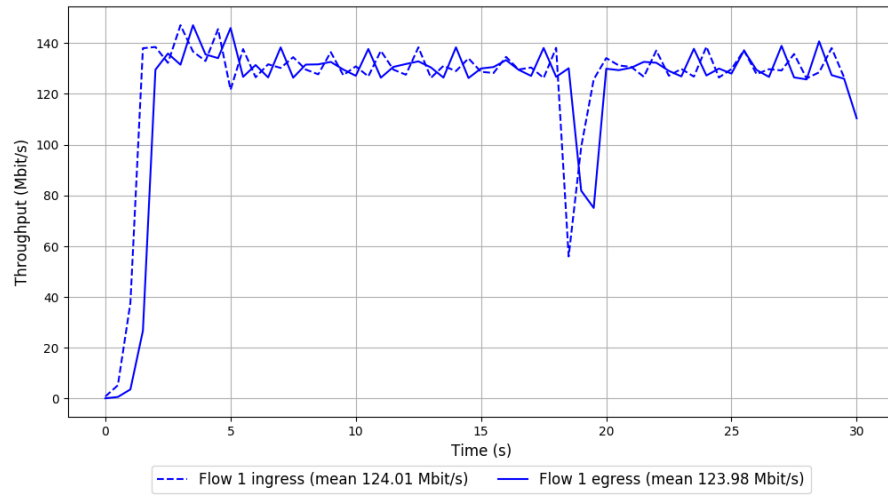
Average throughput: 123.98 Mbit/s

95th percentile per-packet one-way delay: 88.211 ms

Loss rate: 0.60%



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

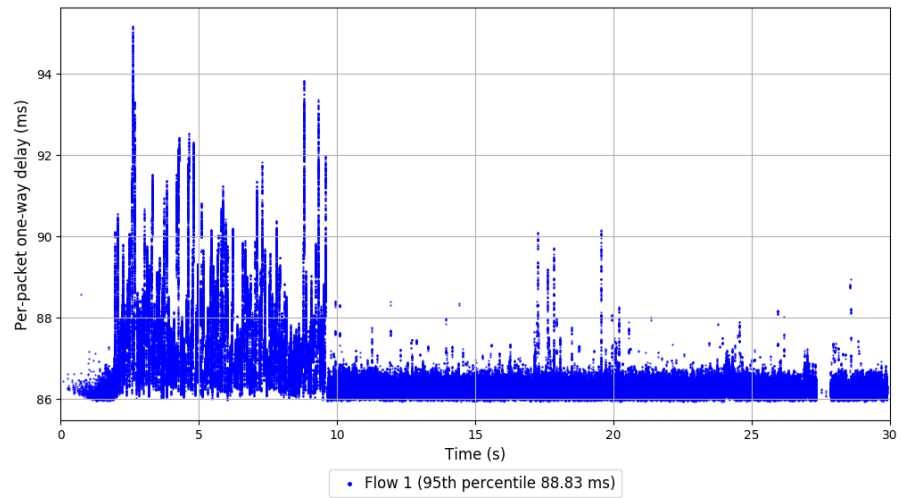
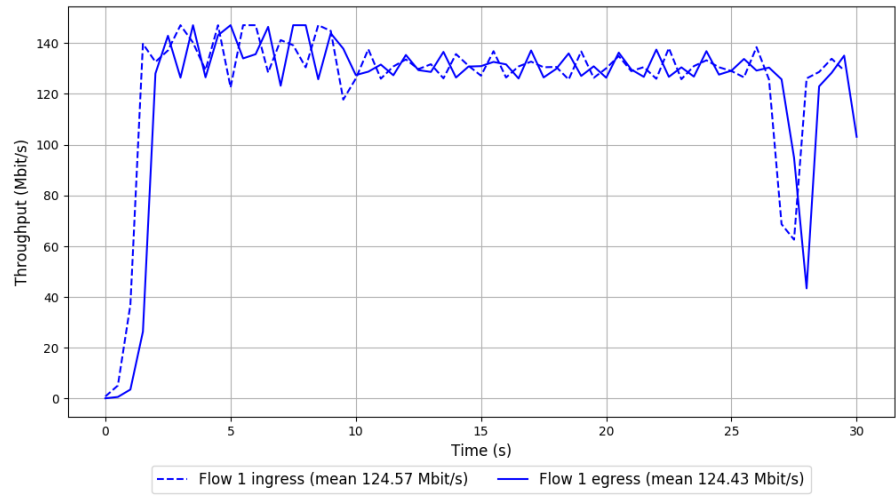


Run 6: Statistics of TCP BBR

Start at: 2018-05-22 10:03:21  
End at: 2018-05-22 10:03:51  
Local clock offset: 0.012 ms  
Remote clock offset: -0.133 ms

# Below is generated by plot.py at 2018-05-22 11:41:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 124.43 Mbit/s  
95th percentile per-packet one-way delay: 88.826 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 124.43 Mbit/s  
95th percentile per-packet one-way delay: 88.826 ms  
Loss rate: 0.64%

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

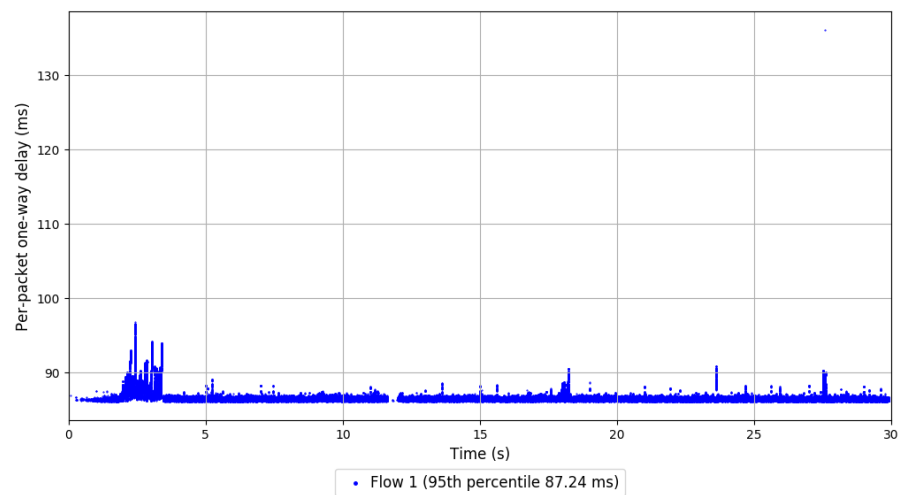
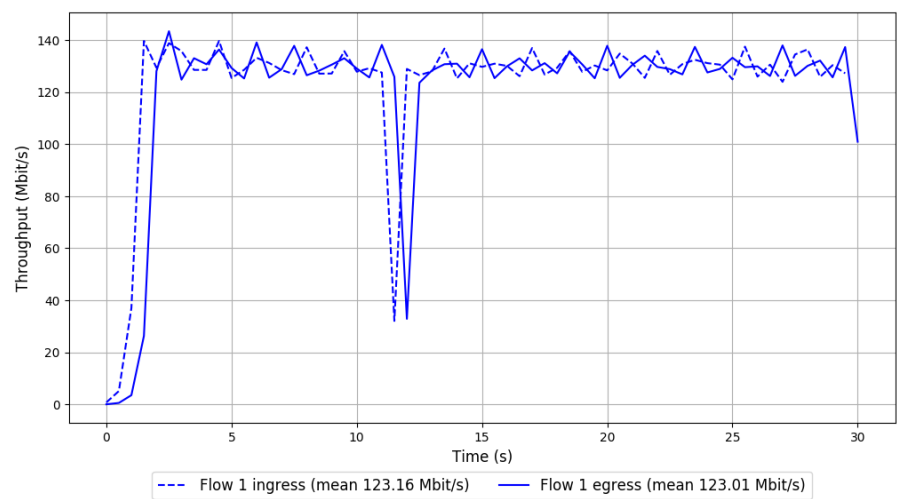


Run 7: Statistics of TCP BBR

Start at: 2018-05-22 10:23:36  
End at: 2018-05-22 10:24:06  
Local clock offset: 0.192 ms  
Remote clock offset: -0.116 ms

# Below is generated by plot.py at 2018-05-22 11:41:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 123.01 Mbit/s  
95th percentile per-packet one-way delay: 87.241 ms  
Loss rate: 0.60%  
-- Flow 1:  
Average throughput: 123.01 Mbit/s  
95th percentile per-packet one-way delay: 87.241 ms  
Loss rate: 0.60%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-05-22 10:43:33

End at: 2018-05-22 10:44:03

Local clock offset: 0.159 ms

Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2018-05-22 11:41:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 120.52 Mbit/s

95th percentile per-packet one-way delay: 87.232 ms

Loss rate: 0.60%

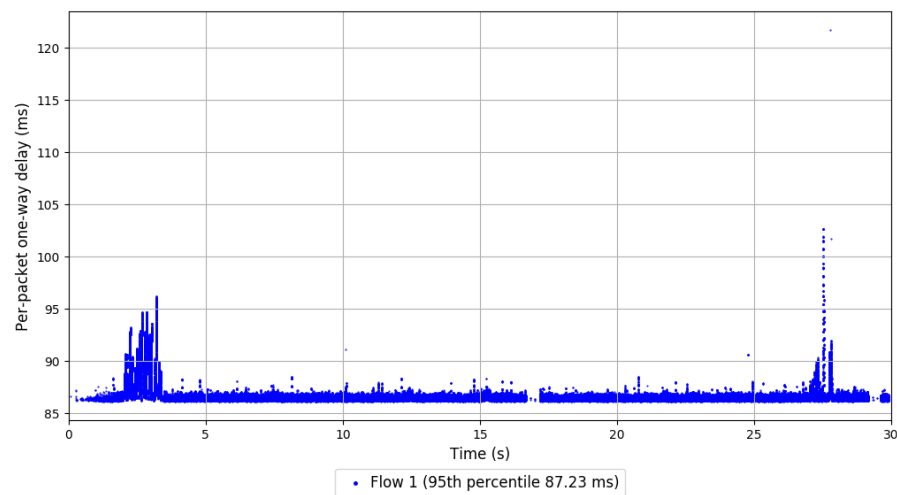
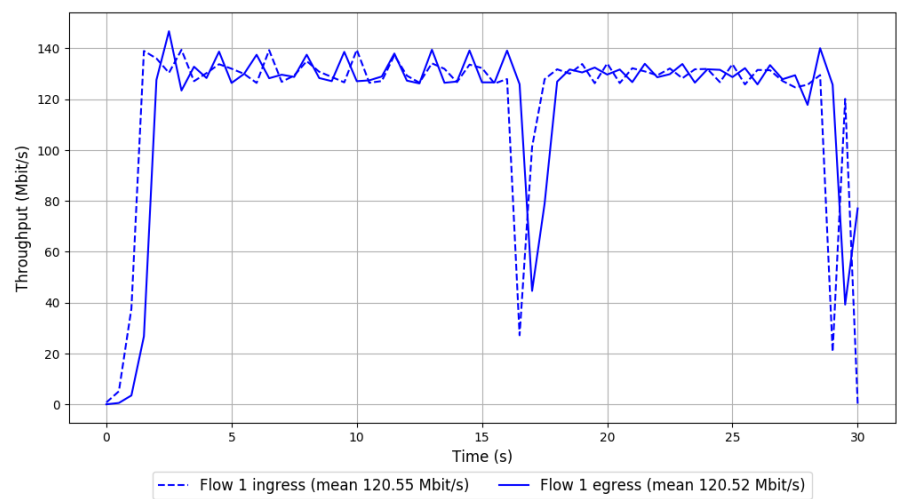
-- Flow 1:

Average throughput: 120.52 Mbit/s

95th percentile per-packet one-way delay: 87.232 ms

Loss rate: 0.60%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-05-22 11:03:53

End at: 2018-05-22 11:04:23

Local clock offset: 0.312 ms

Remote clock offset: -0.129 ms

# Below is generated by plot.py at 2018-05-22 11:43:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 122.39 Mbit/s

95th percentile per-packet one-way delay: 89.604 ms

Loss rate: 0.61%

-- Flow 1:

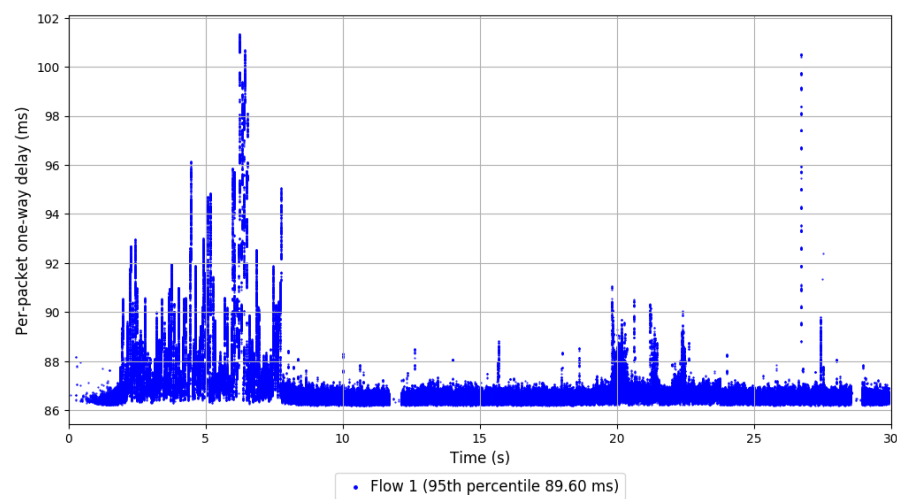
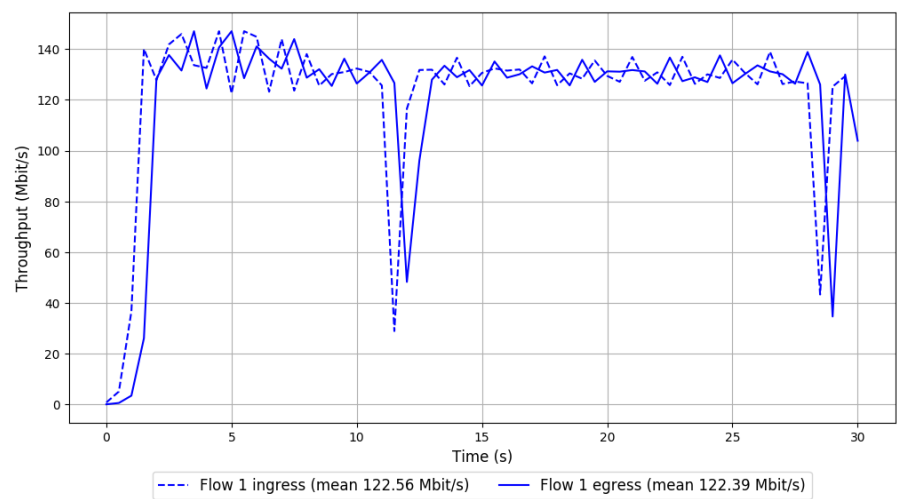
Average throughput: 122.39 Mbit/s

95th percentile per-packet one-way delay: 89.604 ms

Loss rate: 0.61%



Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-05-22 11:24:07

End at: 2018-05-22 11:24:37

Local clock offset: 0.19 ms

Remote clock offset: 0.204 ms

# Below is generated by plot.py at 2018-05-22 11:43:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 122.50 Mbit/s

95th percentile per-packet one-way delay: 87.245 ms

Loss rate: 0.61%

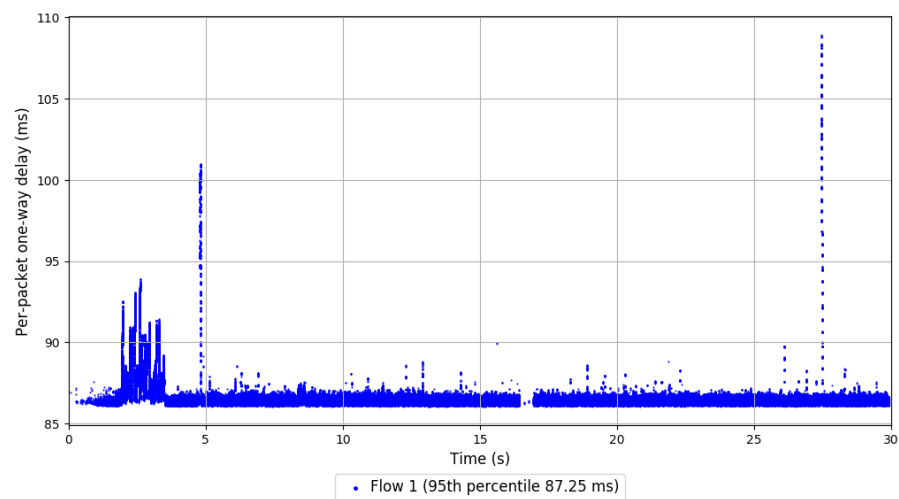
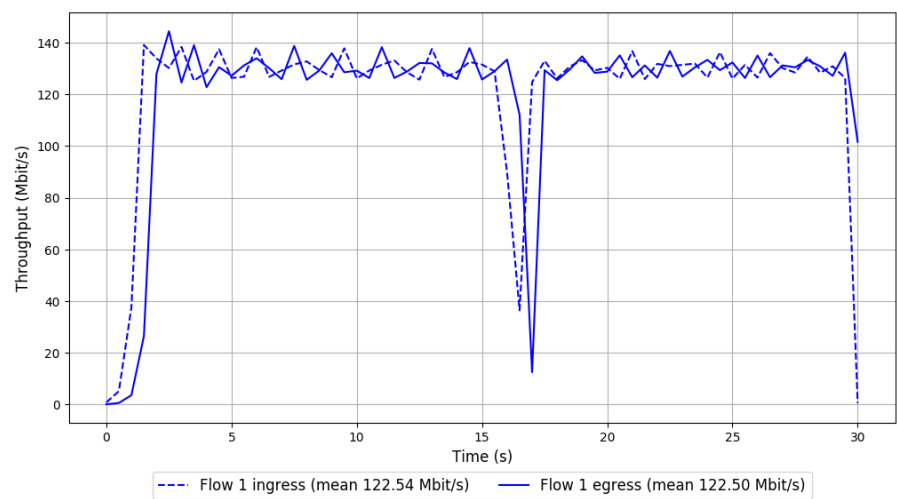
-- Flow 1:

Average throughput: 122.50 Mbit/s

95th percentile per-packet one-way delay: 87.245 ms

Loss rate: 0.61%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-05-22 08:32:34

End at: 2018-05-22 08:33:04

Local clock offset: 0.095 ms

Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2018-05-22 11:45:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 147.61 Mbit/s

95th percentile per-packet one-way delay: 87.523 ms

Loss rate: 0.72%

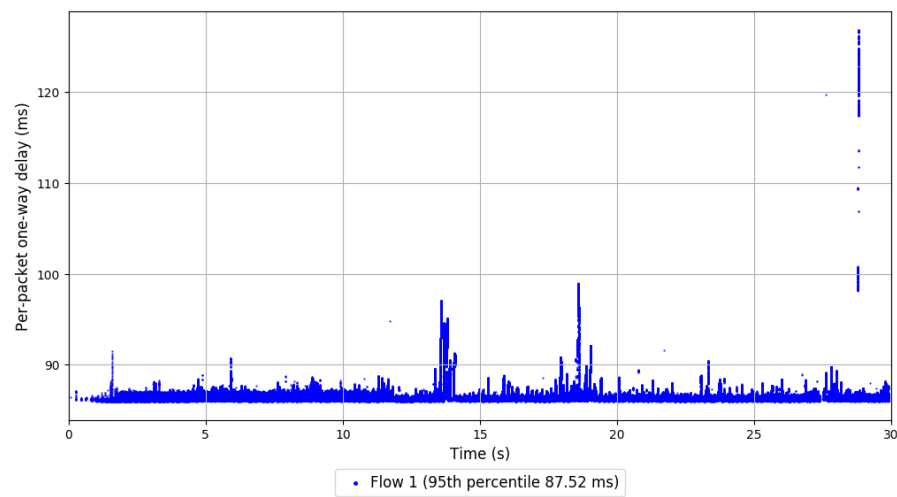
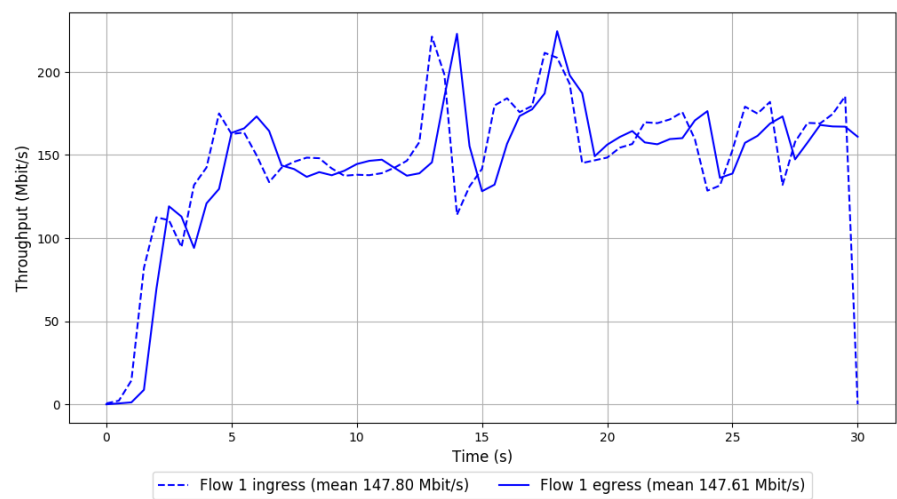
-- Flow 1:

Average throughput: 147.61 Mbit/s

95th percentile per-packet one-way delay: 87.523 ms

Loss rate: 0.72%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-05-22 08:52:36

End at: 2018-05-22 08:53:06

Local clock offset: 0.209 ms

Remote clock offset: 0.043 ms

# Below is generated by plot.py at 2018-05-22 11:46:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 154.86 Mbit/s

95th percentile per-packet one-way delay: 89.357 ms

Loss rate: 0.54%

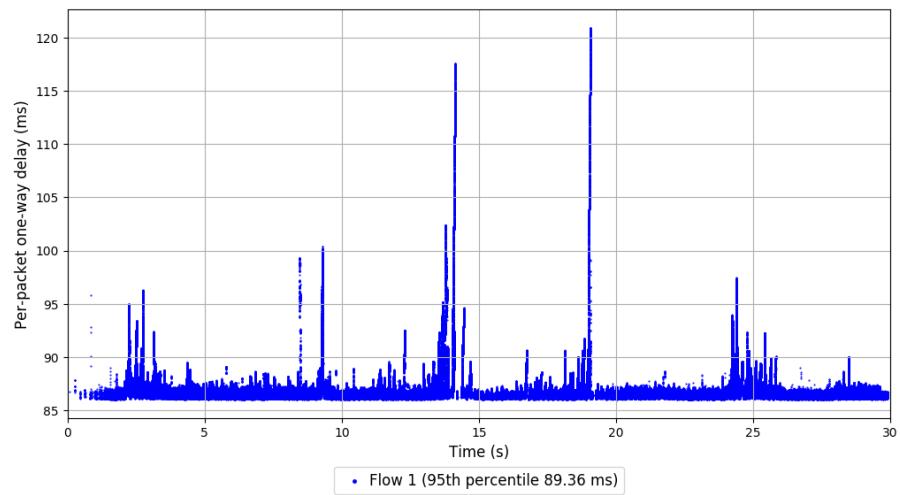
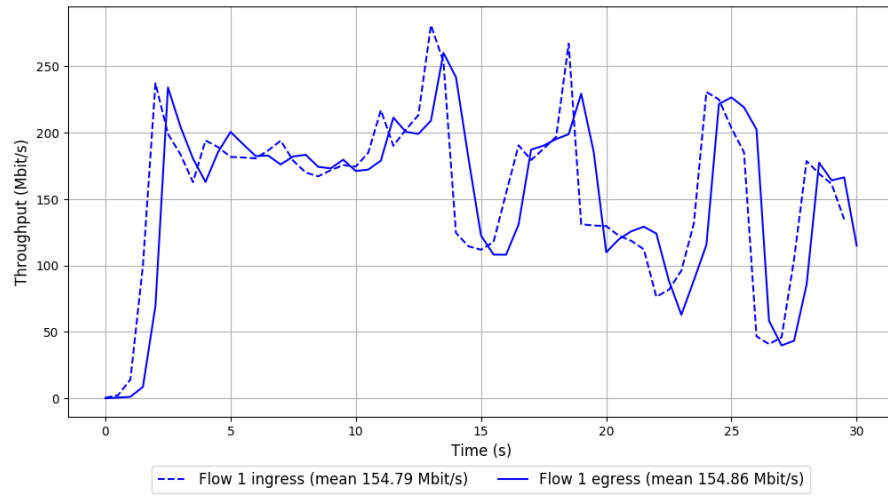
-- Flow 1:

Average throughput: 154.86 Mbit/s

95th percentile per-packet one-way delay: 89.357 ms

Loss rate: 0.54%

## Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-05-22 09:13:02

End at: 2018-05-22 09:13:32

Local clock offset: 0.18 ms

Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2018-05-22 11:46:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 142.40 Mbit/s

95th percentile per-packet one-way delay: 87.255 ms

Loss rate: 0.59%

-- Flow 1:

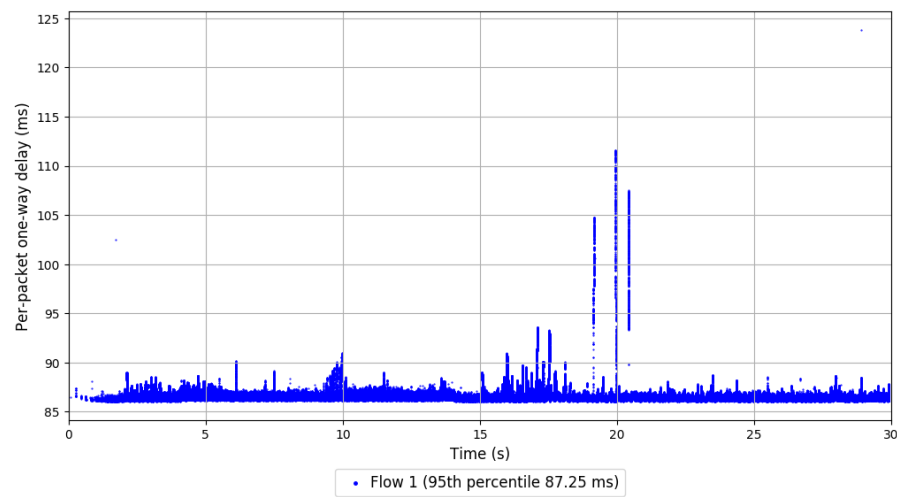
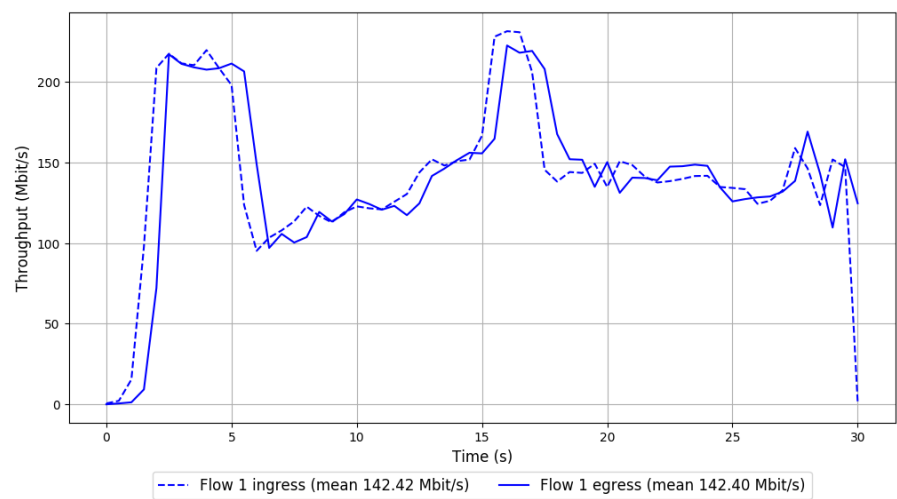
Average throughput: 142.40 Mbit/s

95th percentile per-packet one-way delay: 87.255 ms

Loss rate: 0.59%



Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-05-22 09:33:18

End at: 2018-05-22 09:33:48

Local clock offset: 0.375 ms

Remote clock offset: 0.068 ms

# Below is generated by plot.py at 2018-05-22 11:46:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 158.98 Mbit/s

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

Loss rate: 0.64%

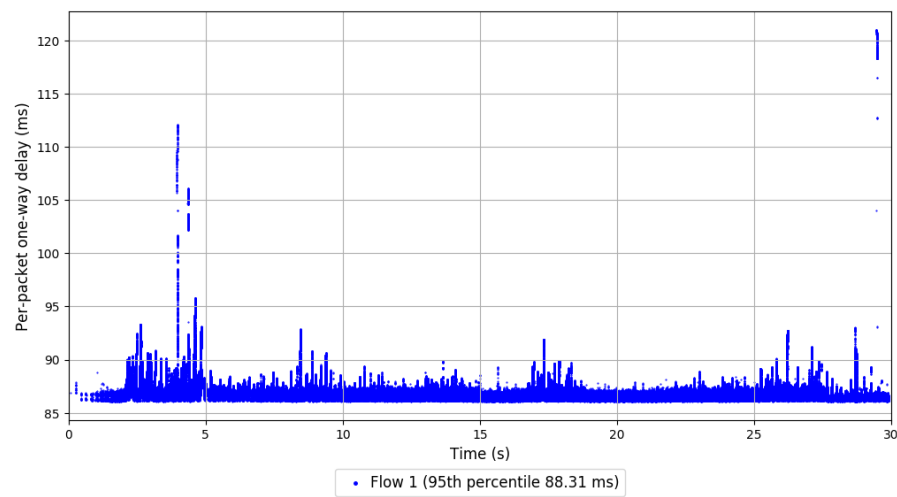
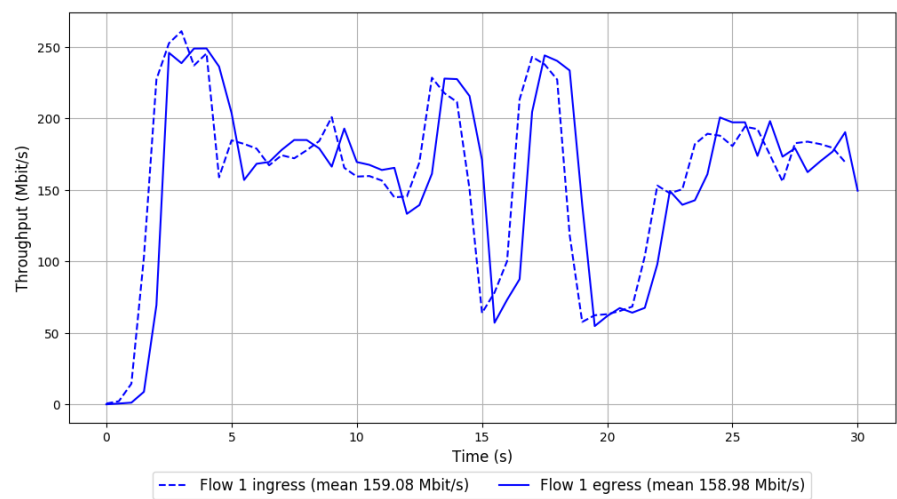
-- Flow 1:

Average throughput: 158.98 Mbit/s

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

Loss rate: 0.64%

Run 4: Report of Copa — Data Link

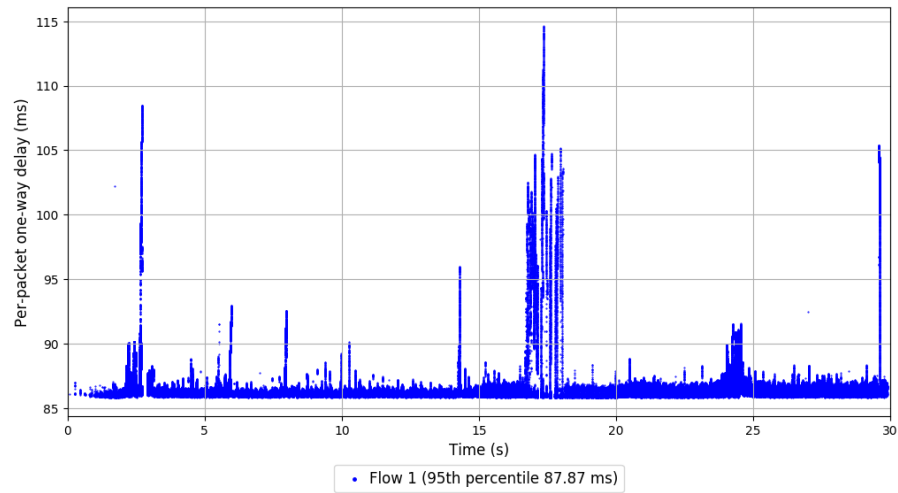
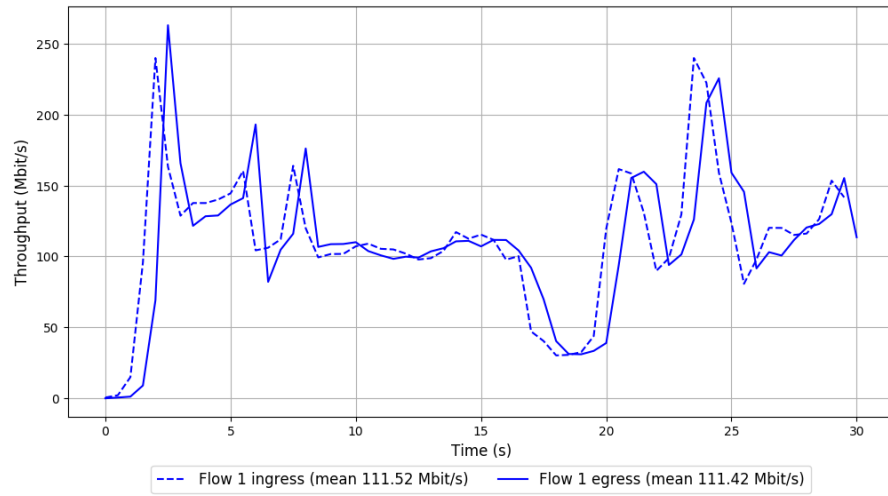


Run 5: Statistics of Copa

Start at: 2018-05-22 09:53:21  
End at: 2018-05-22 09:53:51  
Local clock offset: -0.091 ms  
Remote clock offset: -0.147 ms

# Below is generated by plot.py at 2018-05-22 11:46:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 111.42 Mbit/s  
95th percentile per-packet one-way delay: 87.867 ms  
Loss rate: 0.66%  
-- Flow 1:  
Average throughput: 111.42 Mbit/s  
95th percentile per-packet one-way delay: 87.867 ms  
Loss rate: 0.66%

## Run 5: Report of Copa — Data Link

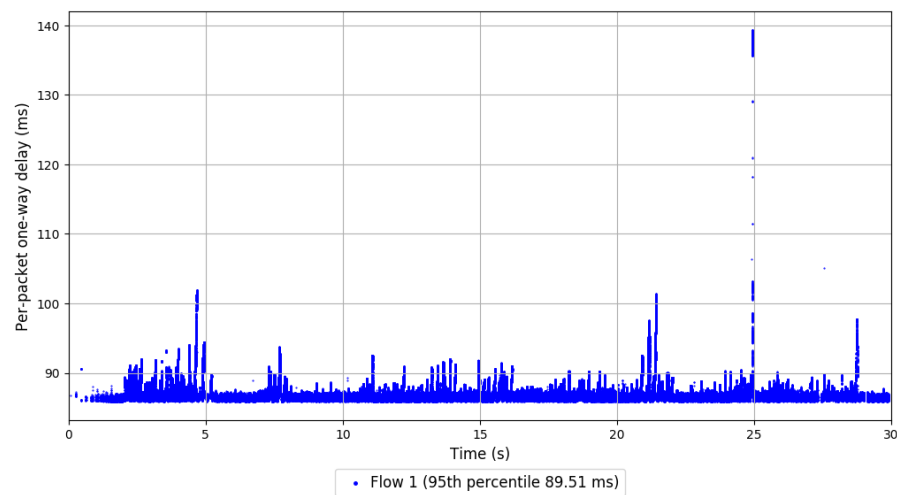
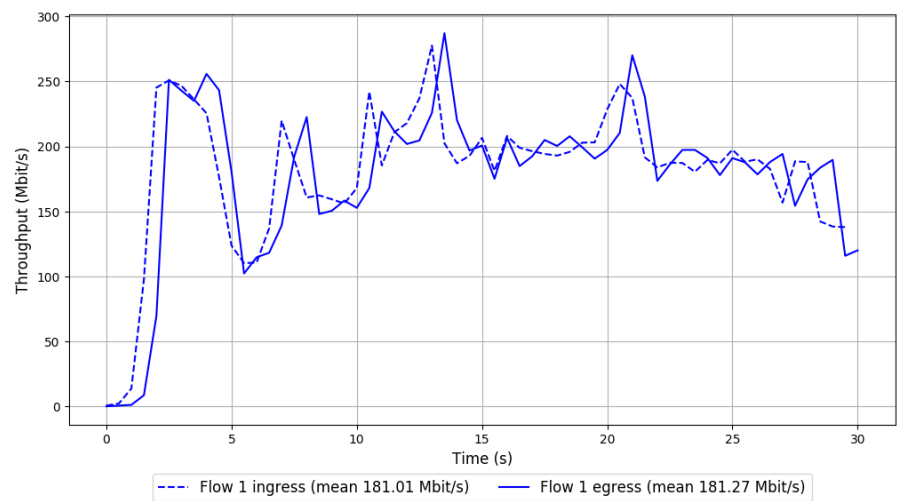


Run 6: Statistics of Copa

Start at: 2018-05-22 10:13:30  
End at: 2018-05-22 10:14:00  
Local clock offset: -0.082 ms  
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2018-05-22 11:46:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 181.27 Mbit/s  
95th percentile per-packet one-way delay: 89.513 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 181.27 Mbit/s  
95th percentile per-packet one-way delay: 89.513 ms  
Loss rate: 0.44%

Run 6: Report of Copa — Data Link



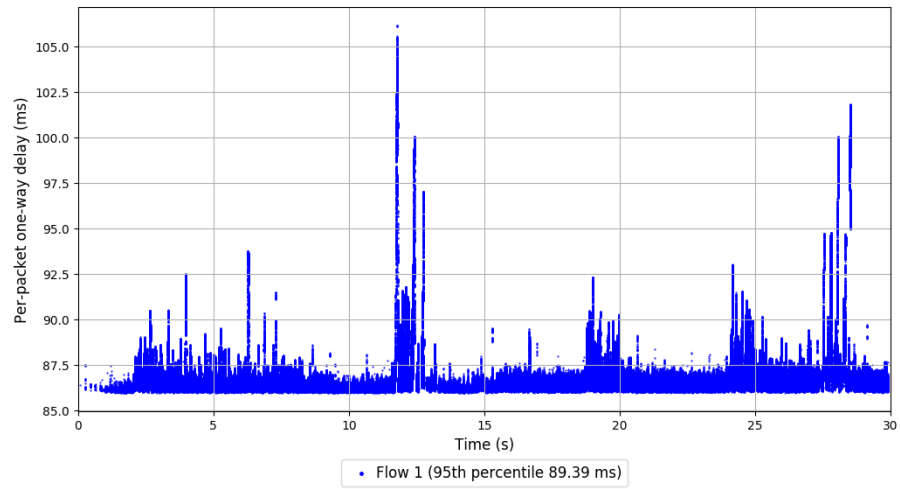
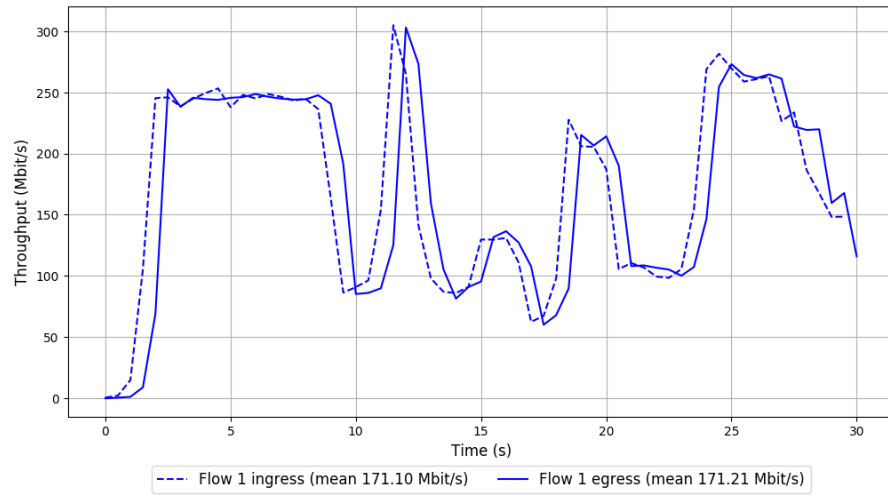
Run 7: Statistics of Copa

Start at: 2018-05-22 10:33:30  
End at: 2018-05-22 10:34:01  
Local clock offset: -0.037 ms  
Remote clock offset: -0.207 ms

# Below is generated by plot.py at 2018-05-22 11:49:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 171.21 Mbit/s  
95th percentile per-packet one-way delay: 89.395 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 171.21 Mbit/s  
95th percentile per-packet one-way delay: 89.395 ms  
Loss rate: 0.51%



### Run 7: Report of Copa — Data Link

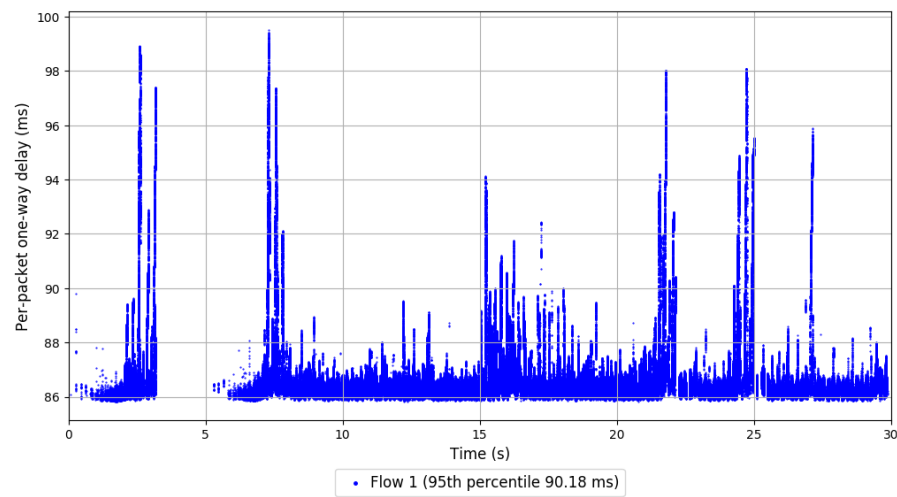
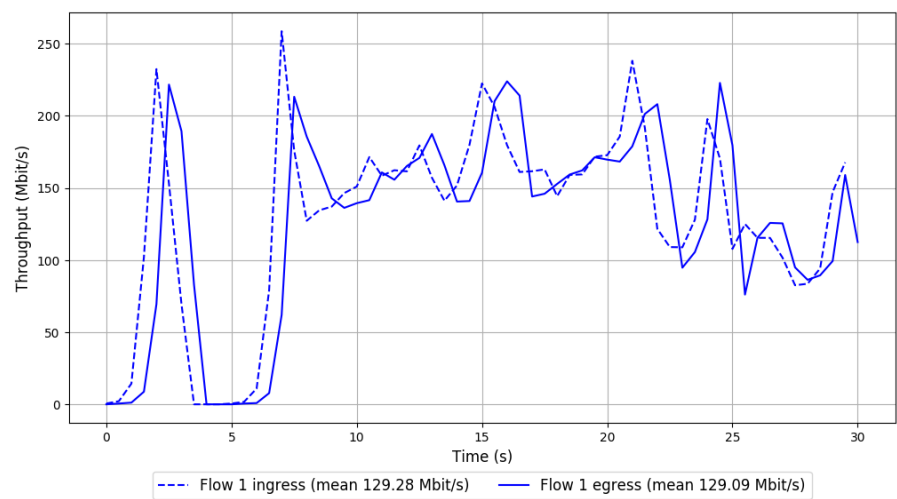


Run 8: Statistics of Copa

Start at: 2018-05-22 10:53:53  
End at: 2018-05-22 10:54:23  
Local clock offset: -0.071 ms  
Remote clock offset: -0.148 ms

# Below is generated by plot.py at 2018-05-22 11:49:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 129.09 Mbit/s  
95th percentile per-packet one-way delay: 90.177 ms  
Loss rate: 0.72%  
-- Flow 1:  
Average throughput: 129.09 Mbit/s  
95th percentile per-packet one-way delay: 90.177 ms  
Loss rate: 0.72%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-05-22 11:14:05

End at: 2018-05-22 11:14:35

Local clock offset: -0.353 ms

Remote clock offset: 0.124 ms

# Below is generated by plot.py at 2018-05-22 11:49:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 109.48 Mbit/s

95th percentile per-packet one-way delay: 86.773 ms

Loss rate: 0.37%

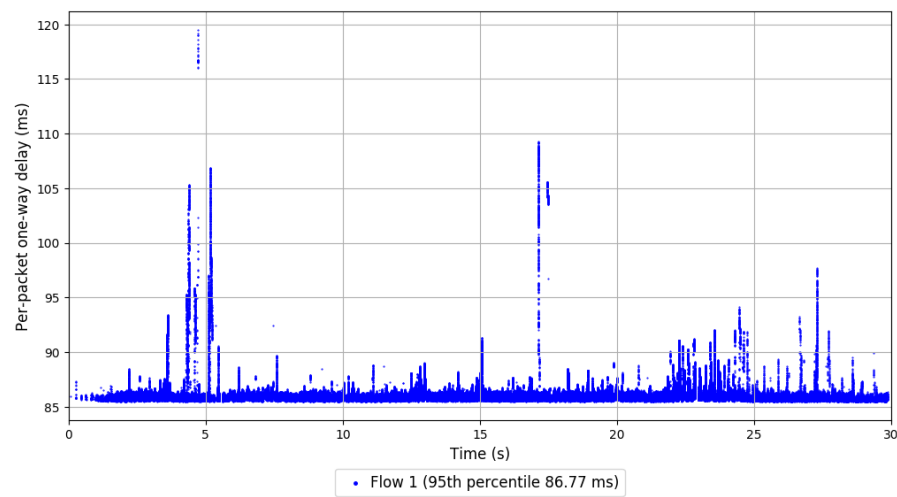
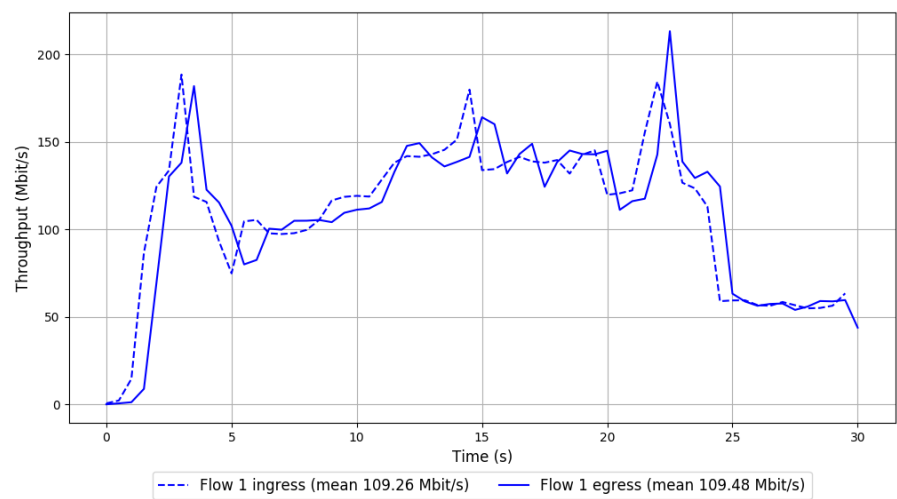
-- Flow 1:

Average throughput: 109.48 Mbit/s

95th percentile per-packet one-way delay: 86.773 ms

Loss rate: 0.37%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-05-22 11:34:01

End at: 2018-05-22 11:34:31

Local clock offset: 0.31 ms

Remote clock offset: 0.247 ms

# Below is generated by plot.py at 2018-05-22 11:49:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 128.03 Mbit/s

95th percentile per-packet one-way delay: 88.550 ms

Loss rate: 0.15%

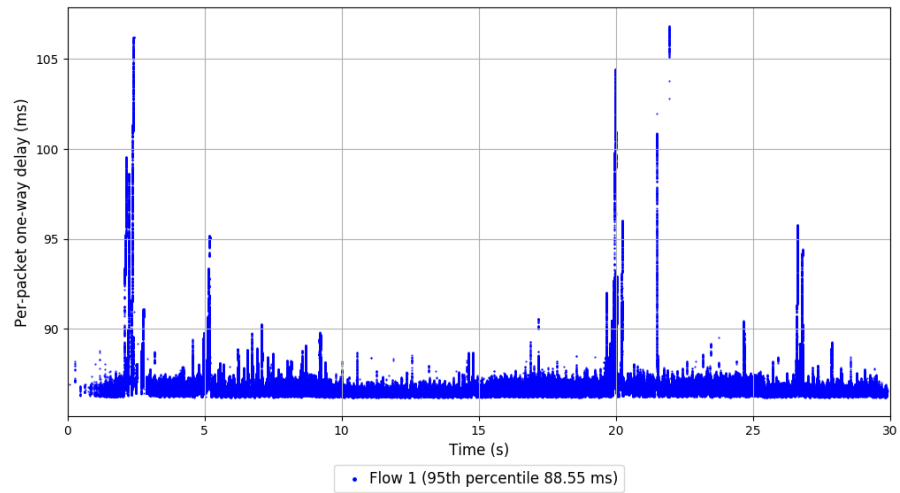
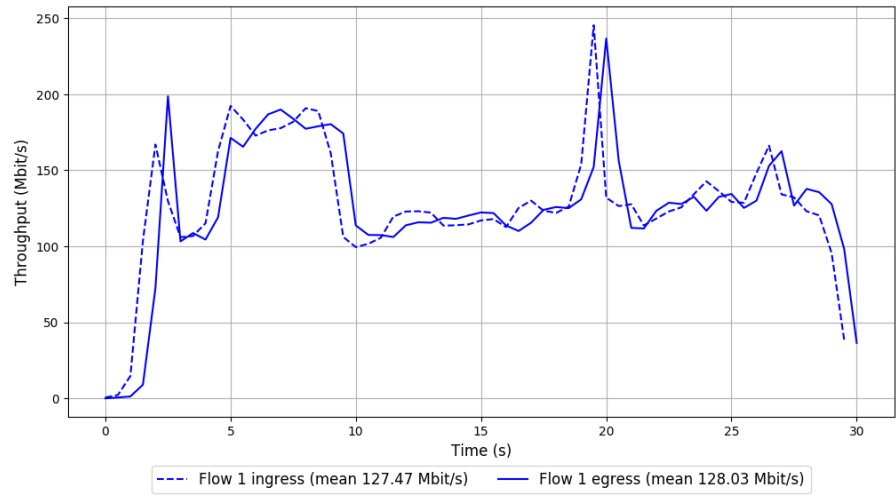
-- Flow 1:

Average throughput: 128.03 Mbit/s

95th percentile per-packet one-way delay: 88.550 ms

Loss rate: 0.15%

# Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-05-22 08:25:53

End at: 2018-05-22 08:26:23

Local clock offset: 0.596 ms

Remote clock offset: 0.107 ms

# Below is generated by plot.py at 2018-05-22 11:49:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 78.63 Mbit/s

95th percentile per-packet one-way delay: 93.046 ms

Loss rate: 0.66%

-- Flow 1:

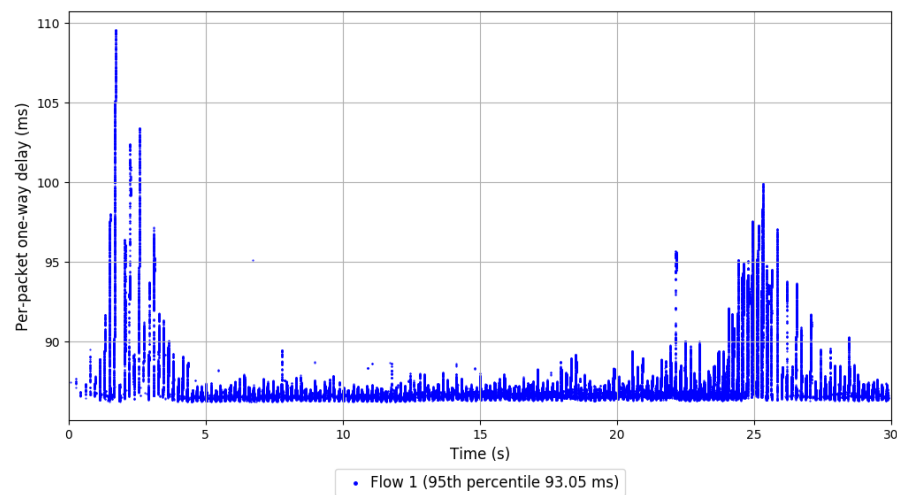
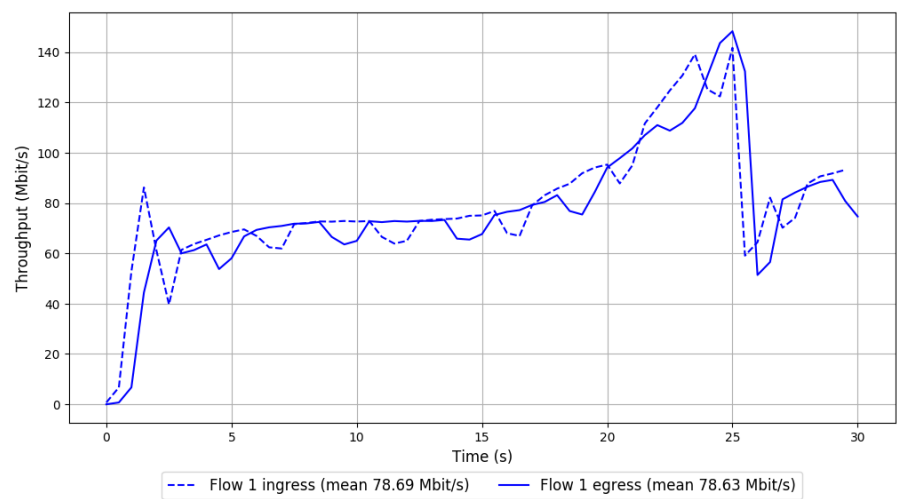
Average throughput: 78.63 Mbit/s

95th percentile per-packet one-way delay: 93.046 ms

Loss rate: 0.66%



Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-05-22 08:45:55

End at: 2018-05-22 08:46:25

Local clock offset: -0.044 ms

Remote clock offset: 0.069 ms

# Below is generated by plot.py at 2018-05-22 11:49:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.43 Mbit/s

95th percentile per-packet one-way delay: 89.781 ms

Loss rate: 0.63%

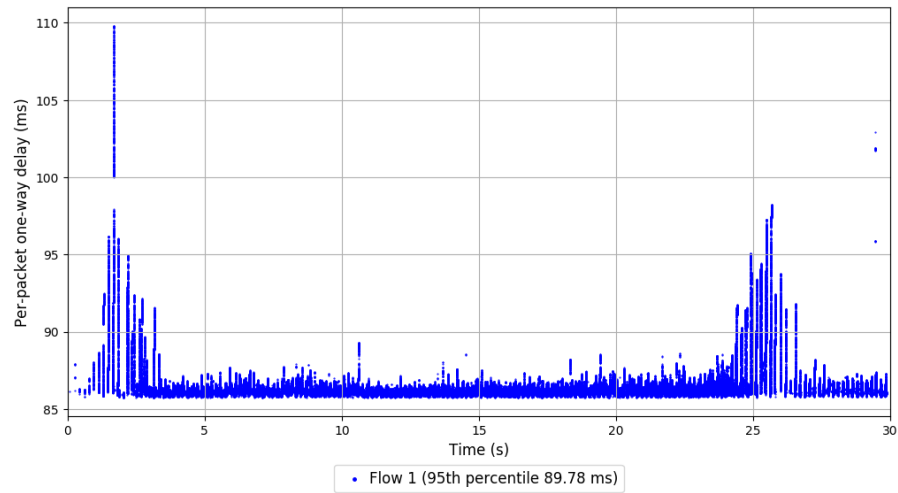
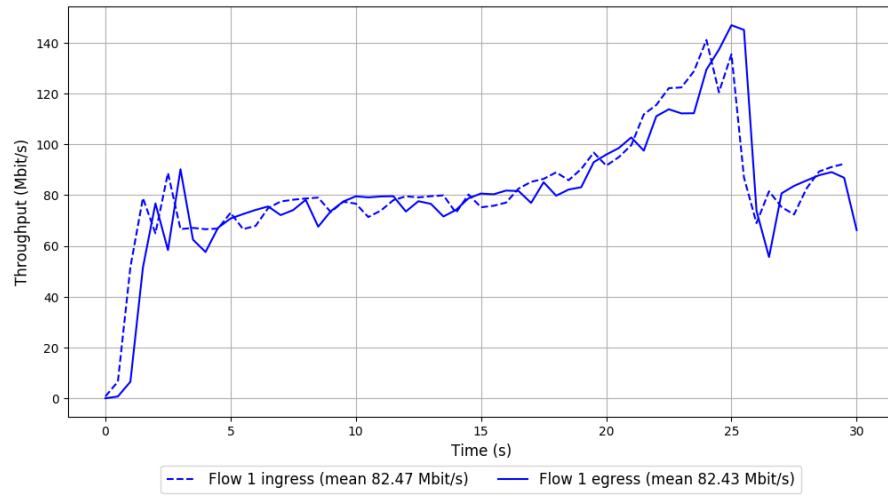
-- Flow 1:

Average throughput: 82.43 Mbit/s

95th percentile per-packet one-way delay: 89.781 ms

Loss rate: 0.63%

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



Run 3: Statistics of TCP Cubic

Start at: 2018-05-22 09:06:15

End at: 2018-05-22 09:06:45

Local clock offset: 0.147 ms

Remote clock offset: 0.049 ms

# Below is generated by plot.py at 2018-05-22 11:49:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 111.17 Mbit/s

95th percentile per-packet one-way delay: 99.816 ms

Loss rate: 0.46%

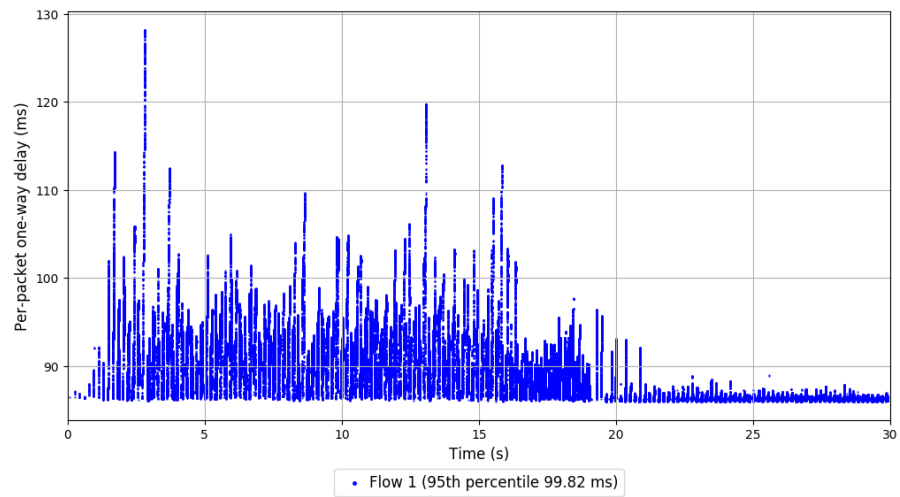
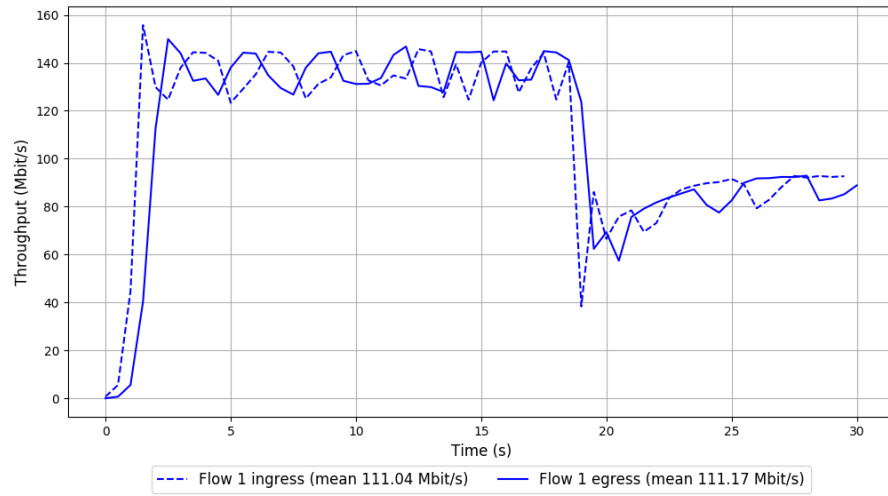
-- Flow 1:

Average throughput: 111.17 Mbit/s

95th percentile per-packet one-way delay: 99.816 ms

Loss rate: 0.46%

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



Run 4: Statistics of TCP Cubic

Start at: 2018-05-22 09:26:35

End at: 2018-05-22 09:27:05

Local clock offset: 0.32 ms

Remote clock offset: 0.075 ms

# Below is generated by plot.py at 2018-05-22 11:49:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 99.20 Mbit/s

95th percentile per-packet one-way delay: 89.812 ms

Loss rate: 0.80%

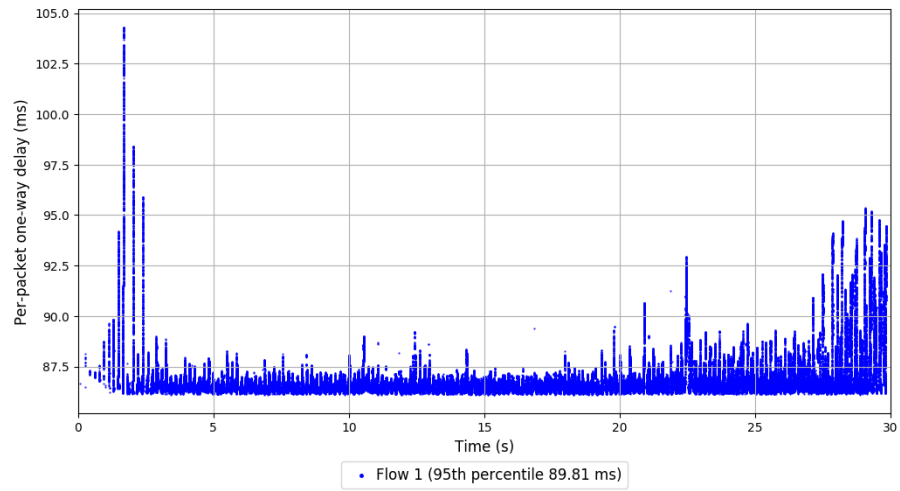
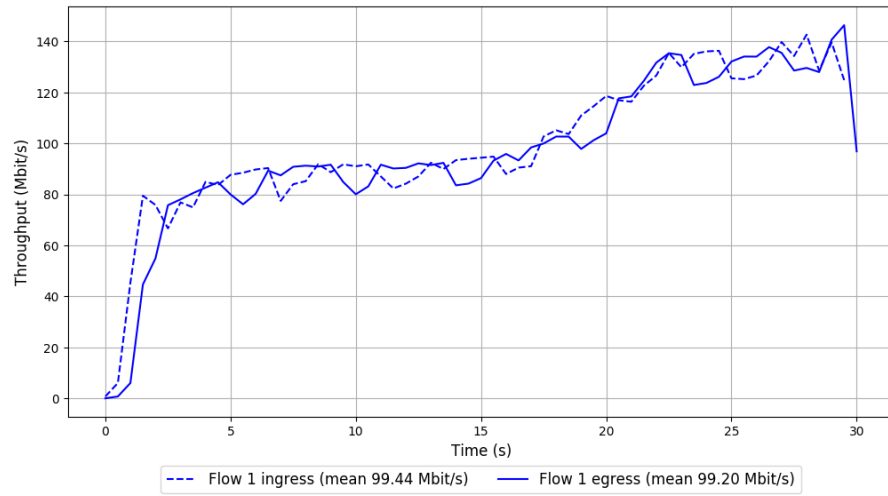
-- Flow 1:

Average throughput: 99.20 Mbit/s

95th percentile per-packet one-way delay: 89.812 ms

Loss rate: 0.80%

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



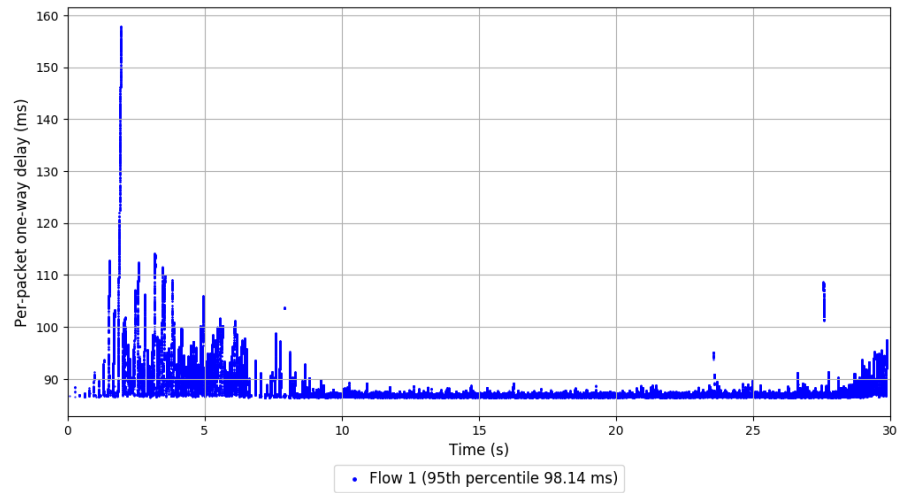
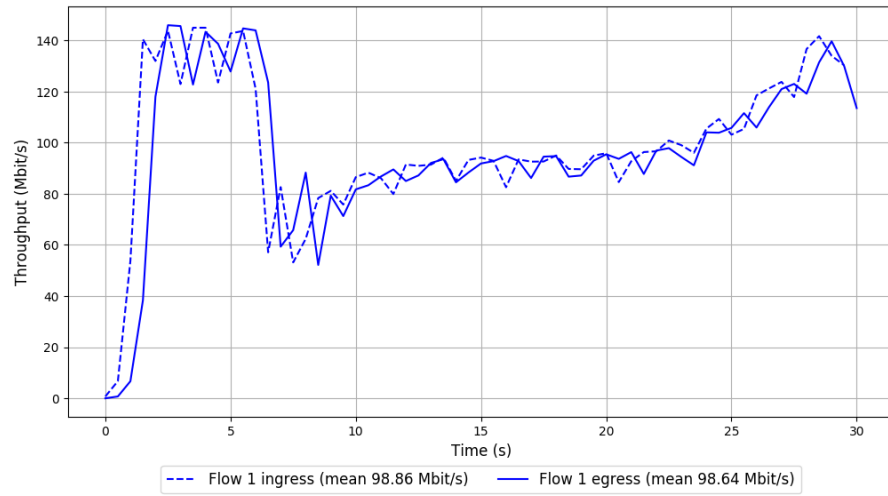
Run 5: Statistics of TCP Cubic

Start at: 2018-05-22 09:46:55  
End at: 2018-05-22 09:47:25  
Local clock offset: 0.382 ms  
Remote clock offset: -0.188 ms

# Below is generated by plot.py at 2018-05-22 11:49:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 98.64 Mbit/s  
95th percentile per-packet one-way delay: 98.139 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 98.64 Mbit/s  
95th percentile per-packet one-way delay: 98.139 ms  
Loss rate: 0.79%



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

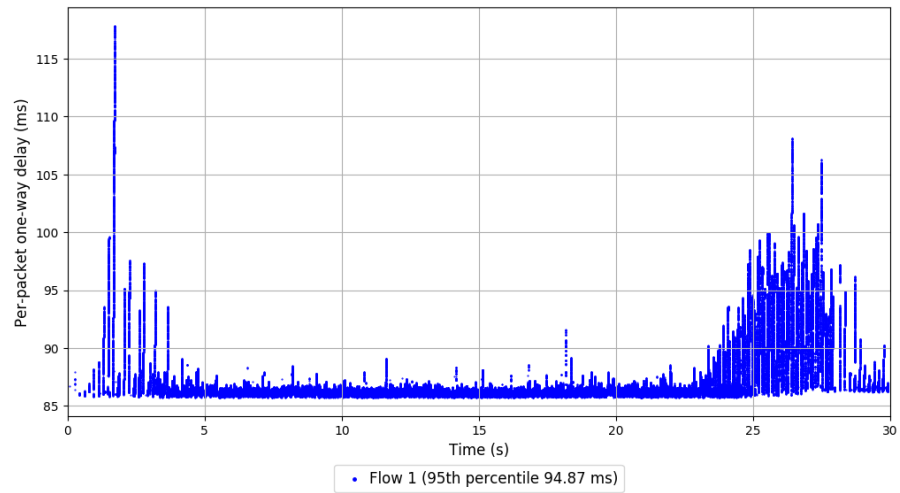
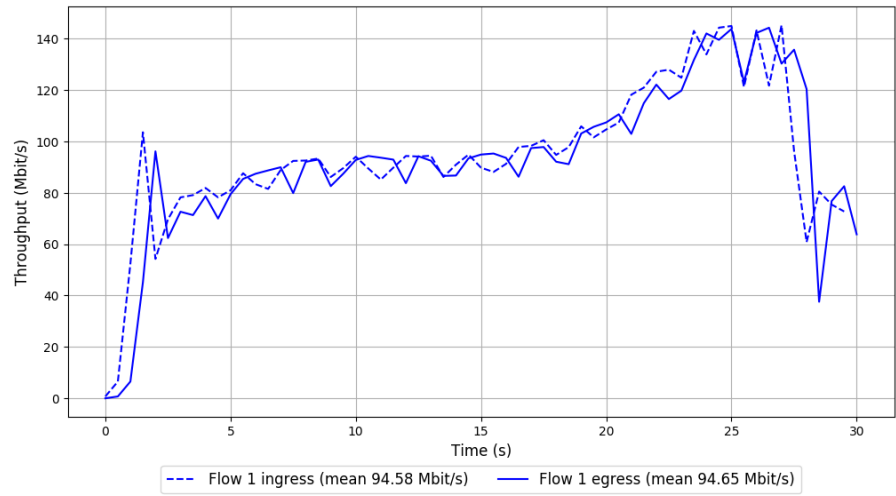


Run 6: Statistics of TCP Cubic

Start at: 2018-05-22 10:06:49  
End at: 2018-05-22 10:07:19  
Local clock offset: -0.19 ms  
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2018-05-22 11:49:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.65 Mbit/s  
95th percentile per-packet one-way delay: 94.871 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 94.65 Mbit/s  
95th percentile per-packet one-way delay: 94.871 ms  
Loss rate: 0.51%

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

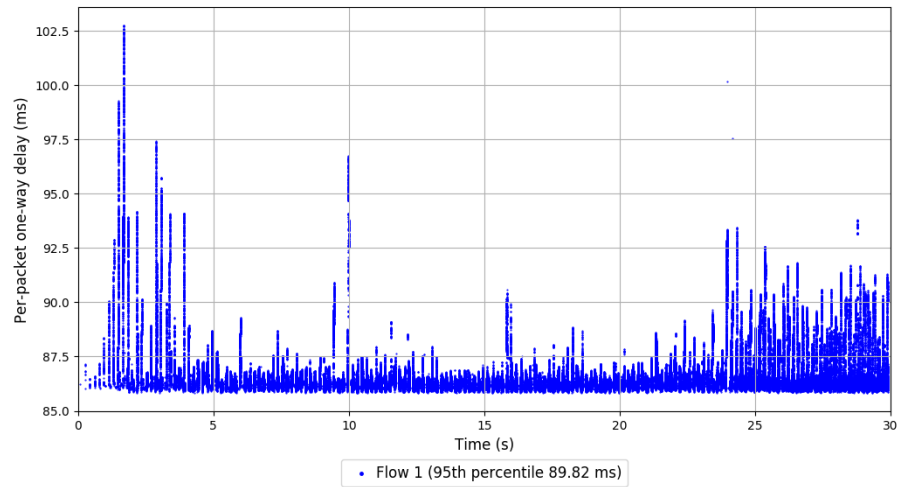
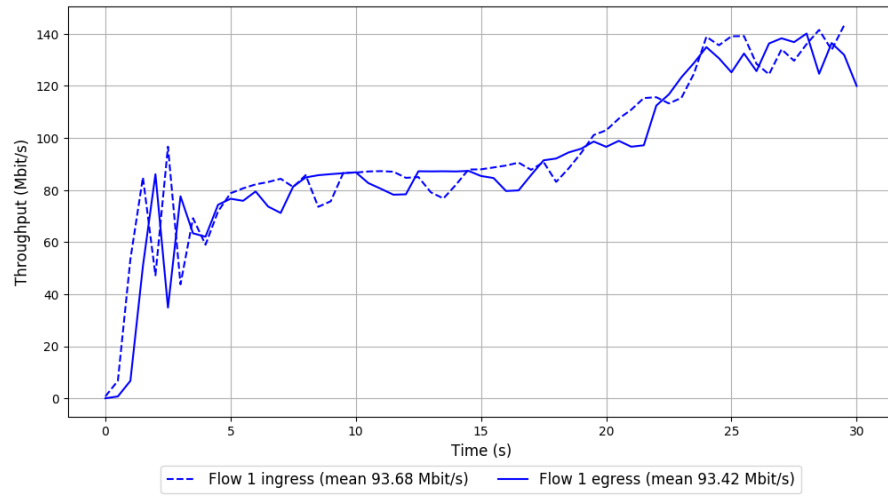


Run 7: Statistics of TCP Cubic

Start at: 2018-05-22 10:27:04  
End at: 2018-05-22 10:27:34  
Local clock offset: -0.111 ms  
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2018-05-22 11:49:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 93.42 Mbit/s  
95th percentile per-packet one-way delay: 89.822 ms  
Loss rate: 0.86%  
-- Flow 1:  
Average throughput: 93.42 Mbit/s  
95th percentile per-packet one-way delay: 89.822 ms  
Loss rate: 0.86%

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

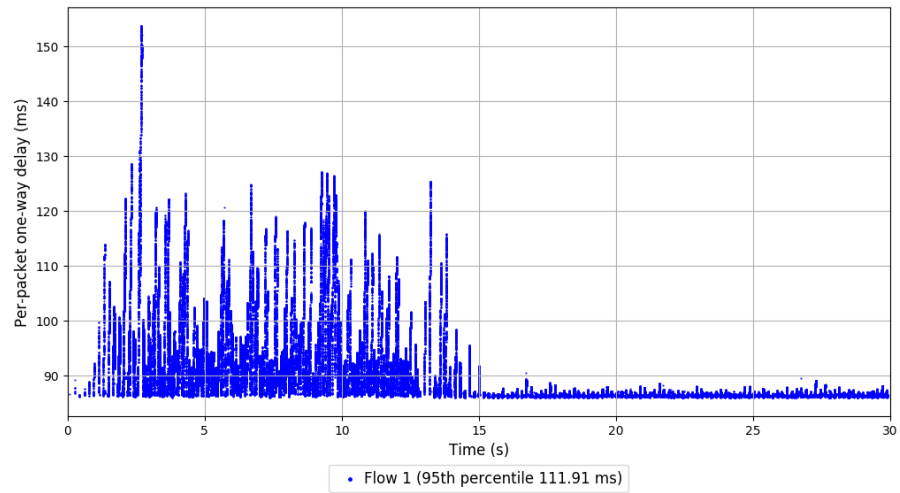
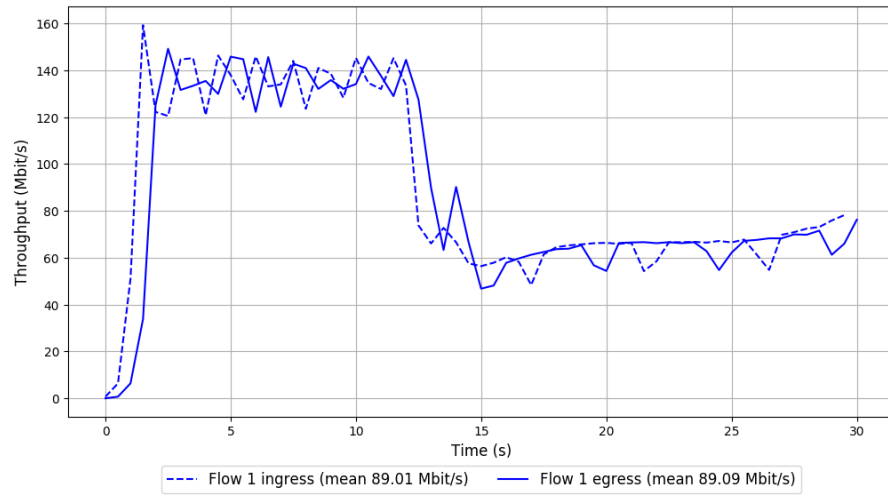


Run 8: Statistics of TCP Cubic

Start at: 2018-05-22 10:47:00  
End at: 2018-05-22 10:47:30  
Local clock offset: 0.101 ms  
Remote clock offset: -0.136 ms

# Below is generated by plot.py at 2018-05-22 11:49:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 89.09 Mbit/s  
95th percentile per-packet one-way delay: 111.907 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 89.09 Mbit/s  
95th percentile per-packet one-way delay: 111.907 ms  
Loss rate: 0.49%

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



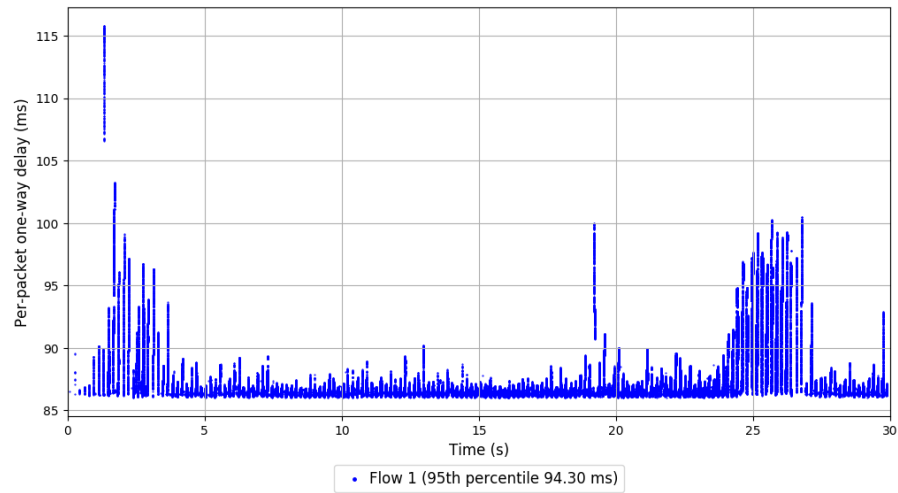
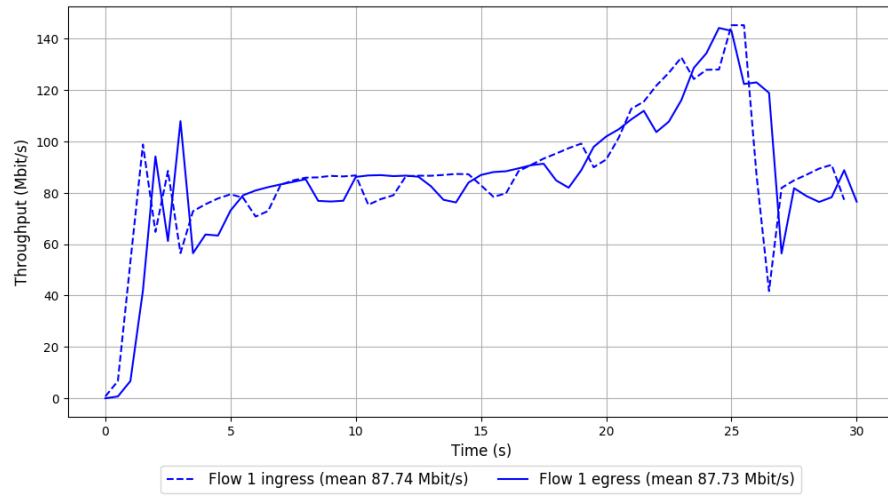
Run 9: Statistics of TCP Cubic

Start at: 2018-05-22 11:07:21  
End at: 2018-05-22 11:07:51  
Local clock offset: 0.089 ms  
Remote clock offset: -0.171 ms

# Below is generated by plot.py at 2018-05-22 11:49:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 87.73 Mbit/s  
95th percentile per-packet one-way delay: 94.299 ms  
Loss rate: 0.59%  
-- Flow 1:  
Average throughput: 87.73 Mbit/s  
95th percentile per-packet one-way delay: 94.299 ms  
Loss rate: 0.59%



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



Run 10: Statistics of TCP Cubic

Start at: 2018-05-22 11:27:35

End at: 2018-05-22 11:28:05

Local clock offset: -0.027 ms

Remote clock offset: 0.251 ms

# Below is generated by plot.py at 2018-05-22 11:50:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.05 Mbit/s

95th percentile per-packet one-way delay: 94.127 ms

Loss rate: 0.44%

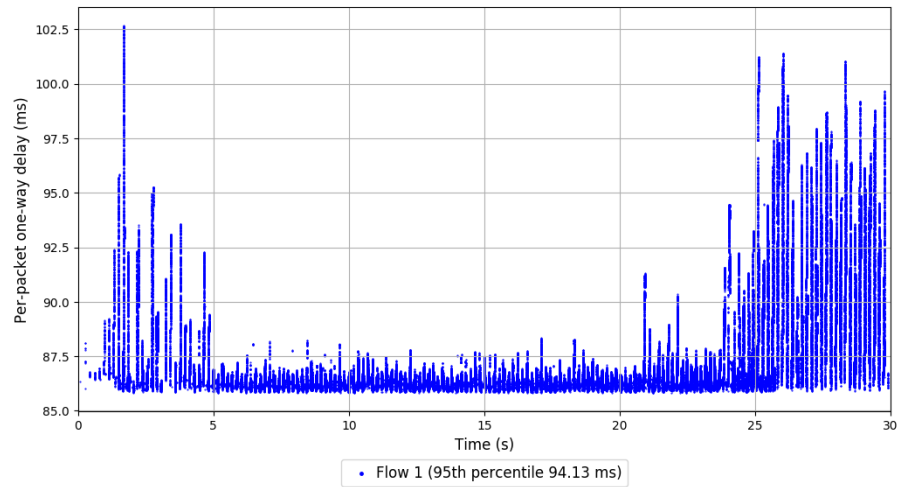
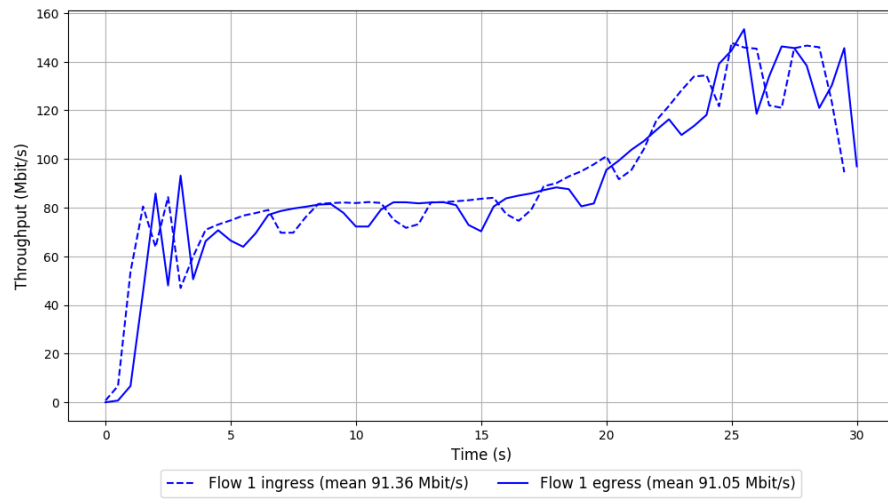
-- Flow 1:

Average throughput: 91.05 Mbit/s

95th percentile per-packet one-way delay: 94.127 ms

Loss rate: 0.44%

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



Run 1: Statistics of FillP

Start at: 2018-05-22 08:28:25

End at: 2018-05-22 08:28:55

Local clock offset: -0.219 ms

Remote clock offset: 0.044 ms

# Below is generated by plot.py at 2018-05-22 12:01:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 665.54 Mbit/s

95th percentile per-packet one-way delay: 305.414 ms

Loss rate: 2.27%

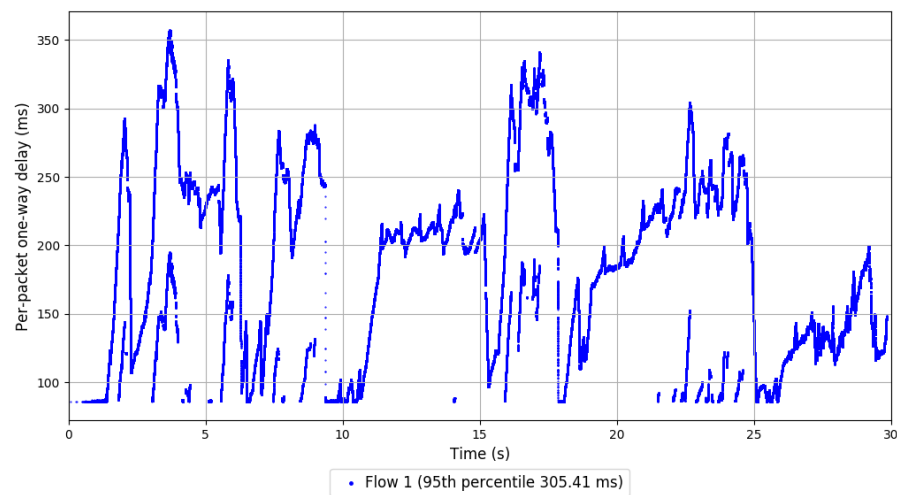
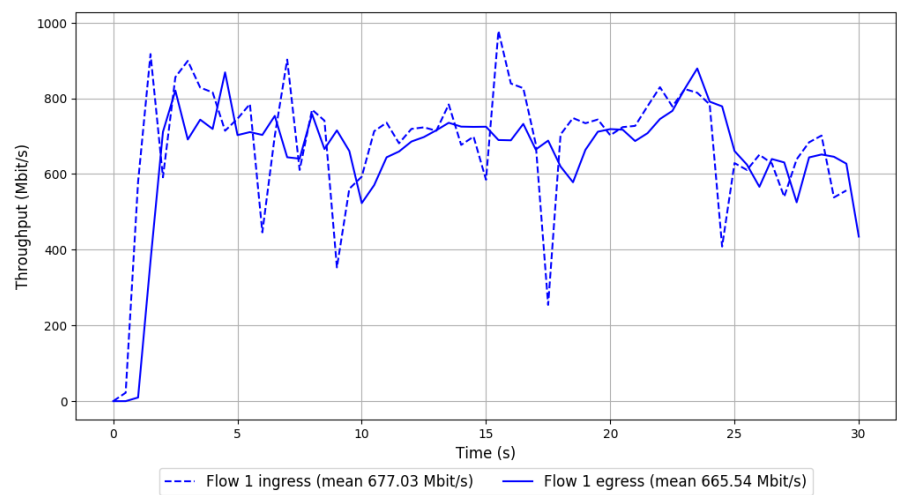
-- Flow 1:

Average throughput: 665.54 Mbit/s

95th percentile per-packet one-way delay: 305.414 ms

Loss rate: 2.27%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-05-22 08:48:30

End at: 2018-05-22 08:49:00

Local clock offset: 0.111 ms

Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2018-05-22 12:01:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 576.62 Mbit/s

95th percentile per-packet one-way delay: 299.929 ms

Loss rate: 1.94%

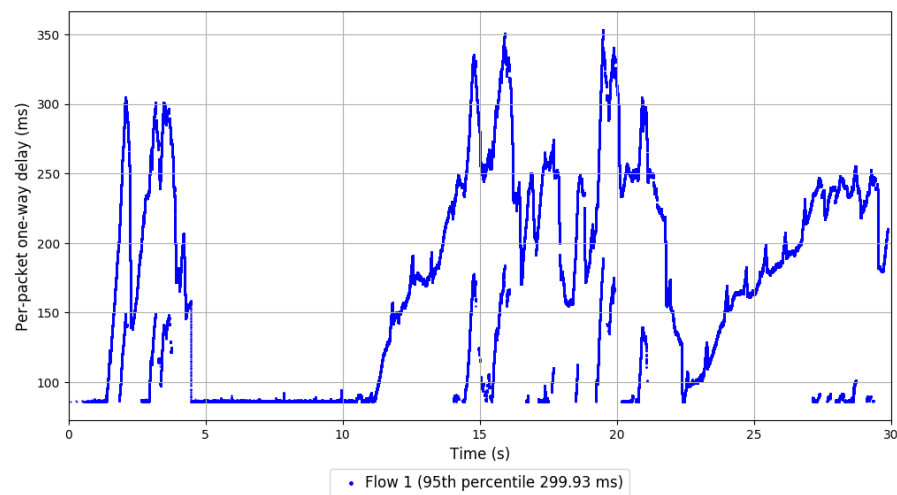
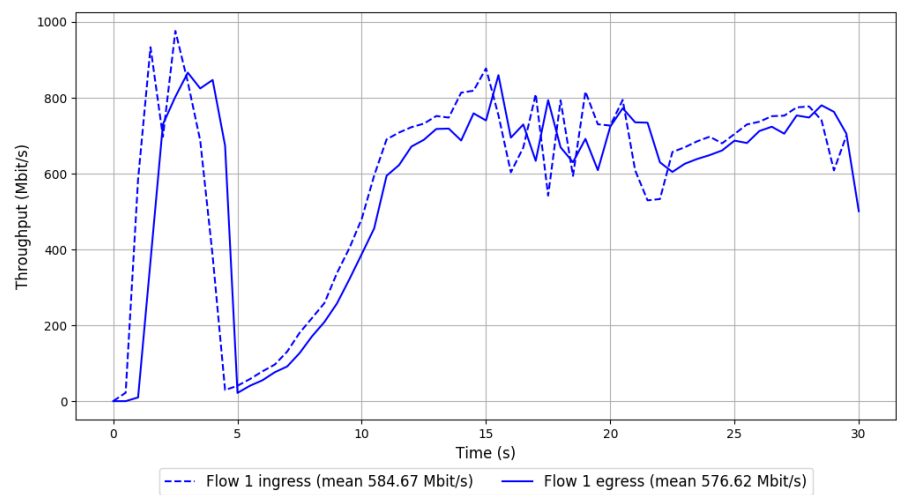
-- Flow 1:

Average throughput: 576.62 Mbit/s

95th percentile per-packet one-way delay: 299.929 ms

Loss rate: 1.94%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-05-22 09:08:50

End at: 2018-05-22 09:09:20

Local clock offset: -0.123 ms

Remote clock offset: 0.102 ms

# Below is generated by plot.py at 2018-05-22 12:02:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 671.72 Mbit/s

95th percentile per-packet one-way delay: 271.703 ms

Loss rate: 1.19%

-- Flow 1:

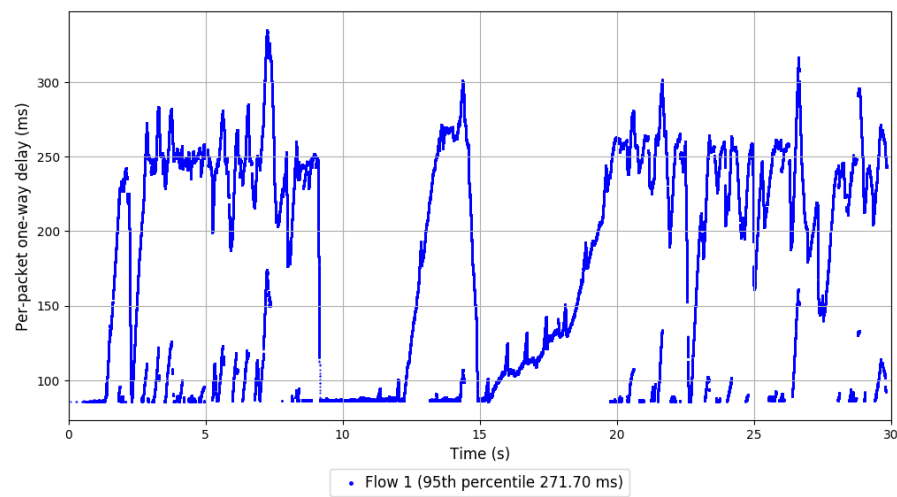
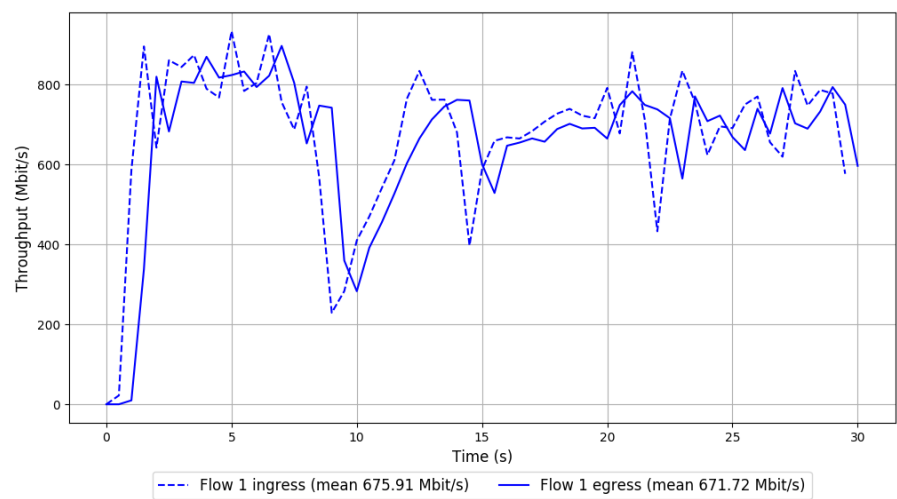
Average throughput: 671.72 Mbit/s

95th percentile per-packet one-way delay: 271.703 ms

Loss rate: 1.19%



Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-05-22 09:29:10

End at: 2018-05-22 09:29:40

Local clock offset: 0.151 ms

Remote clock offset: 0.04 ms

# Below is generated by plot.py at 2018-05-22 12:02:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 659.08 Mbit/s

95th percentile per-packet one-way delay: 265.436 ms

Loss rate: 1.15%

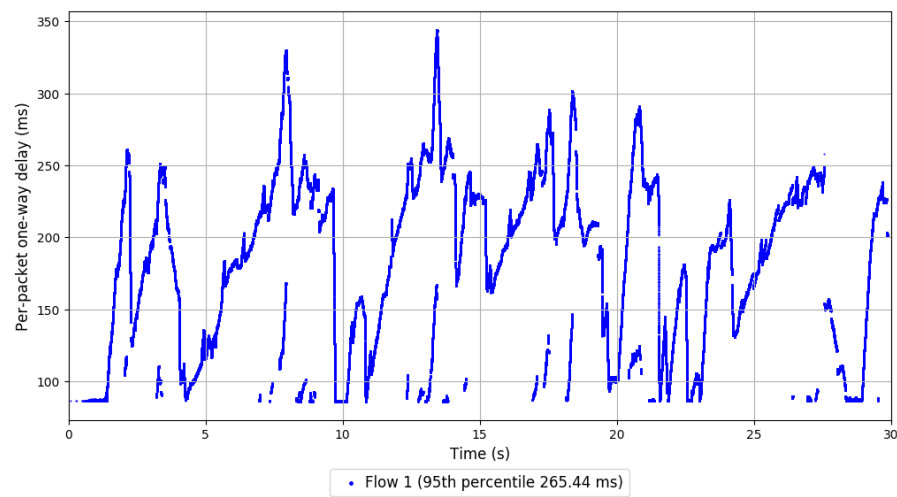
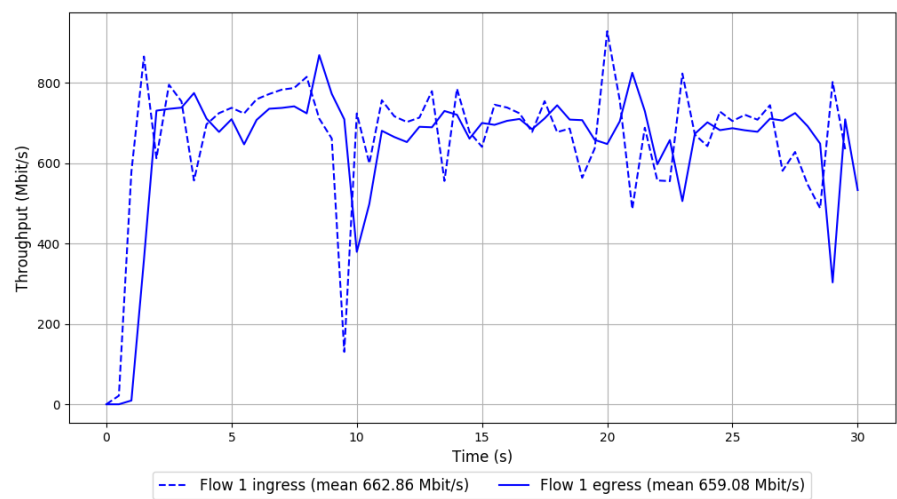
-- Flow 1:

Average throughput: 659.08 Mbit/s

95th percentile per-packet one-way delay: 265.436 ms

Loss rate: 1.15%

Run 4: Report of FillP — Data Link

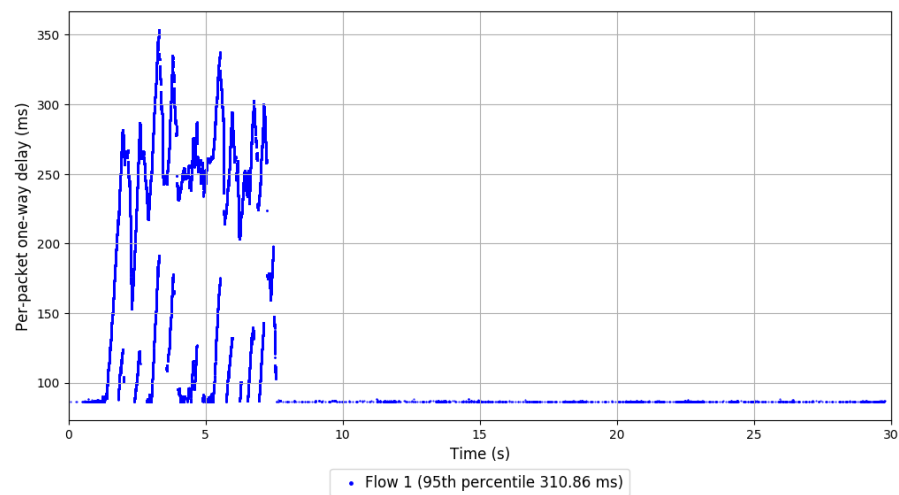
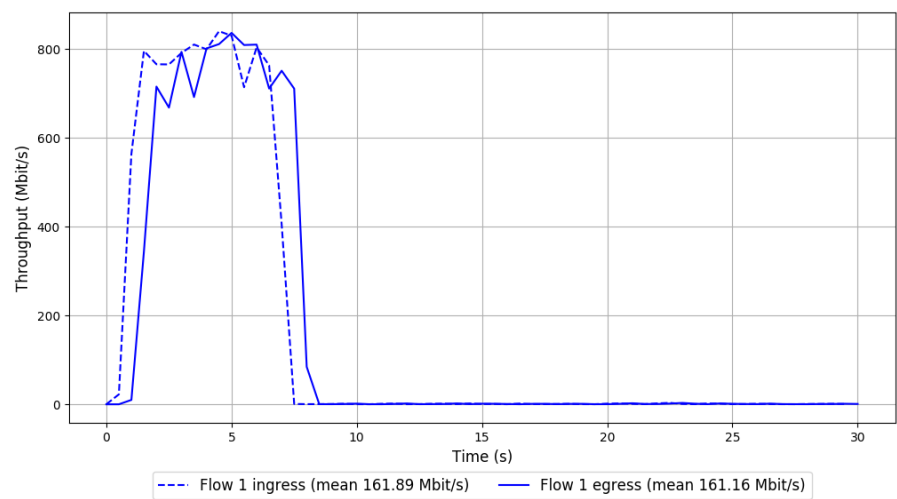


Run 5: Statistics of FillP

Start at: 2018-05-22 09:49:31  
End at: 2018-05-22 09:50:01  
Local clock offset: 0.441 ms  
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2018-05-22 12:02:21  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 161.16 Mbit/s  
95th percentile per-packet one-way delay: 310.860 ms  
Loss rate: 1.27%  
-- Flow 1:  
Average throughput: 161.16 Mbit/s  
95th percentile per-packet one-way delay: 310.860 ms  
Loss rate: 1.27%

Run 5: Report of FillP — Data Link

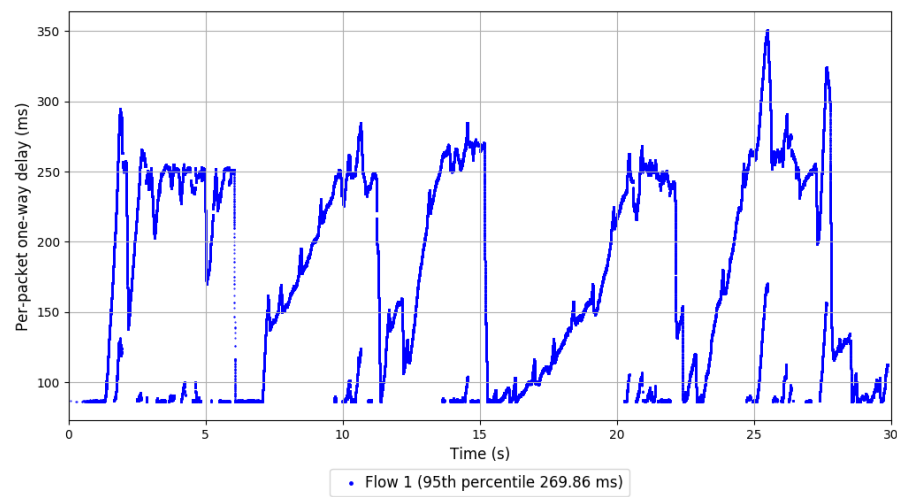
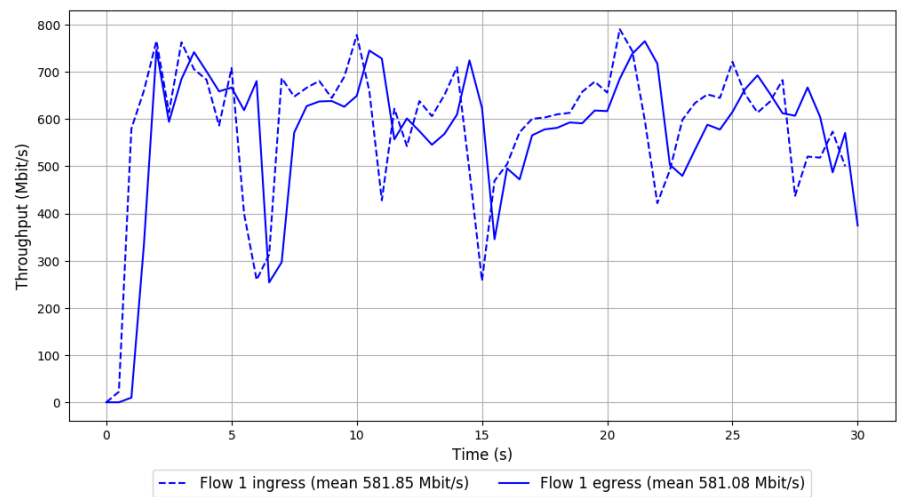


Run 6: Statistics of FillP

Start at: 2018-05-22 10:09:23  
End at: 2018-05-22 10:09:53  
Local clock offset: 0.016 ms  
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2018-05-22 12:02:21  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 581.08 Mbit/s  
95th percentile per-packet one-way delay: 269.861 ms  
Loss rate: 0.71%  
-- Flow 1:  
Average throughput: 581.08 Mbit/s  
95th percentile per-packet one-way delay: 269.861 ms  
Loss rate: 0.71%

Run 6: Report of FillP — Data Link



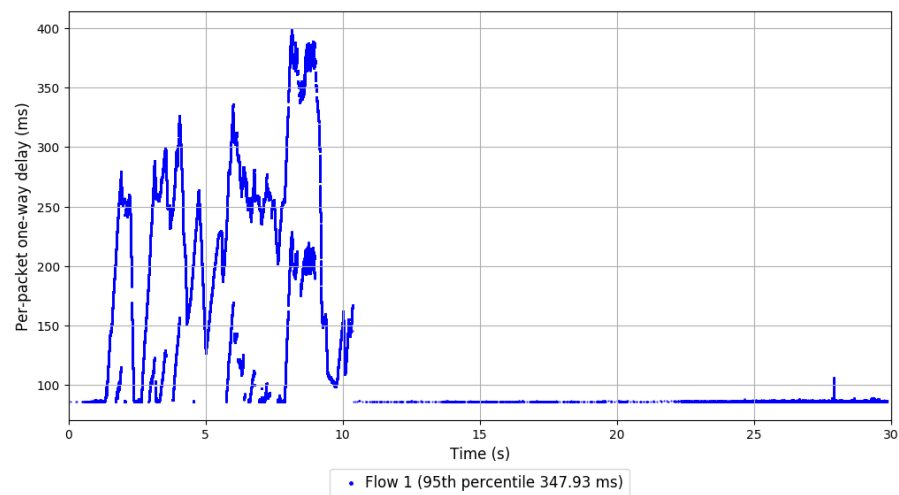
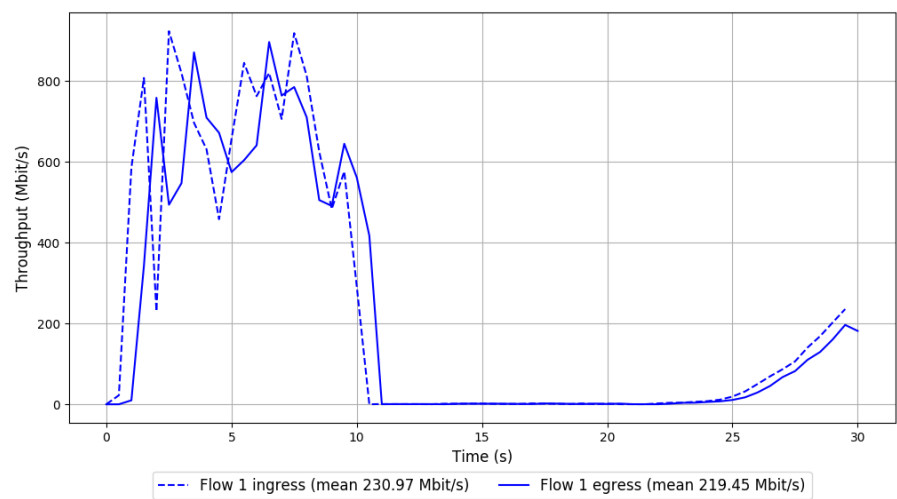
Run 7: Statistics of FillP

Start at: 2018-05-22 10:29:39  
End at: 2018-05-22 10:30:09  
Local clock offset: -0.155 ms  
Remote clock offset: -0.169 ms

# Below is generated by plot.py at 2018-05-22 12:02:21  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 219.45 Mbit/s  
95th percentile per-packet one-way delay: 347.929 ms  
Loss rate: 5.54%  
-- Flow 1:  
Average throughput: 219.45 Mbit/s  
95th percentile per-packet one-way delay: 347.929 ms  
Loss rate: 5.54%



Run 7: Report of FillP — Data Link

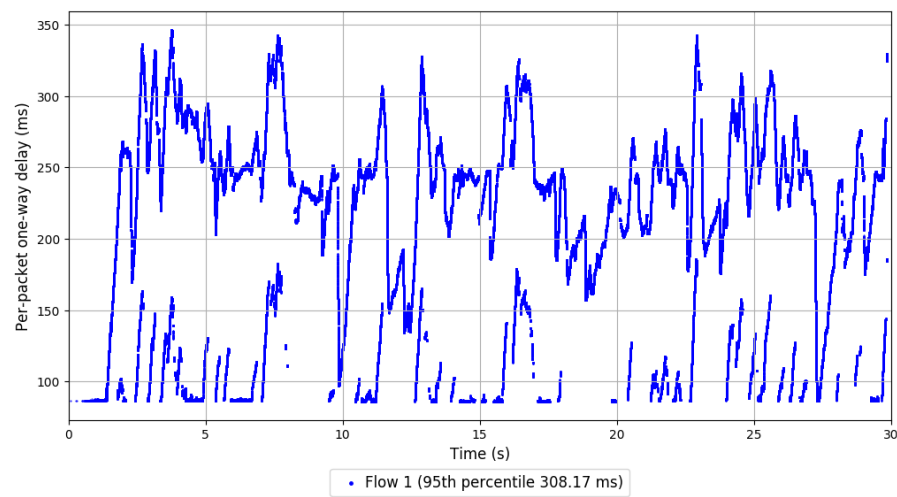
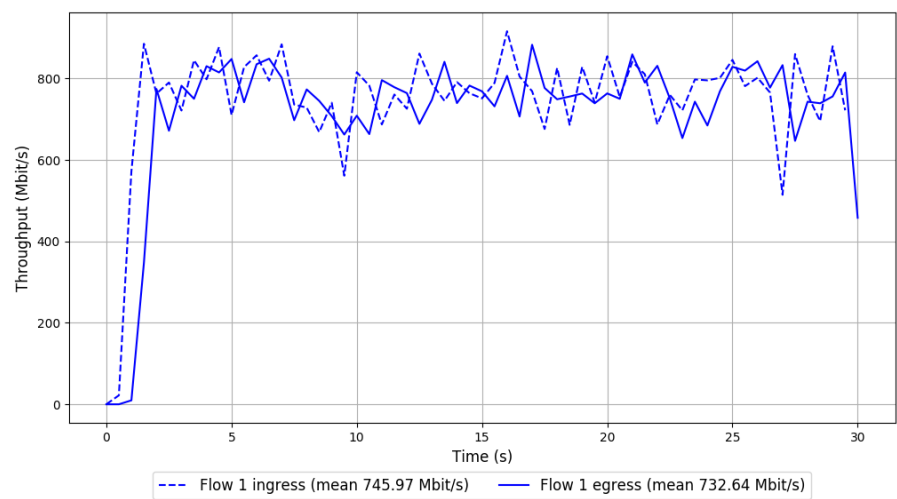


Run 8: Statistics of FillP

Start at: 2018-05-22 10:49:35  
End at: 2018-05-22 10:50:06  
Local clock offset: -0.025 ms  
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2018-05-22 12:05:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 732.64 Mbit/s  
95th percentile per-packet one-way delay: 308.167 ms  
Loss rate: 2.36%  
-- Flow 1:  
Average throughput: 732.64 Mbit/s  
95th percentile per-packet one-way delay: 308.167 ms  
Loss rate: 2.36%

Run 8: Report of FillP — Data Link

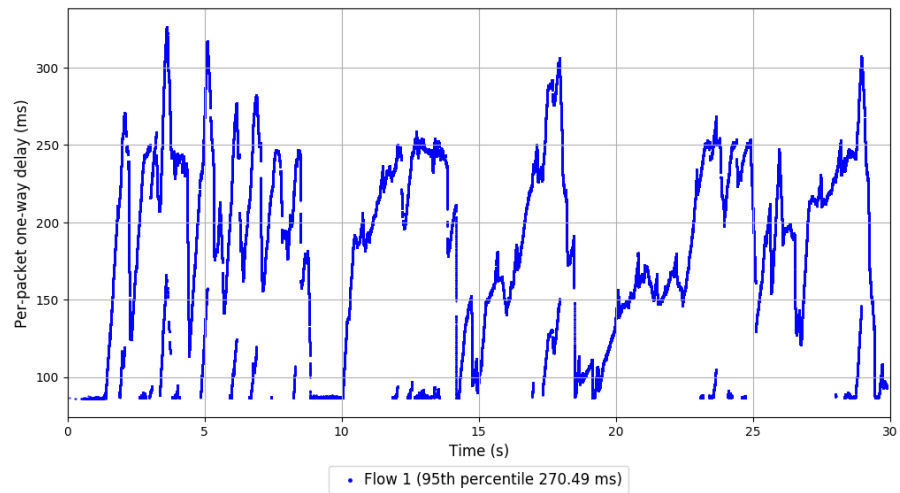
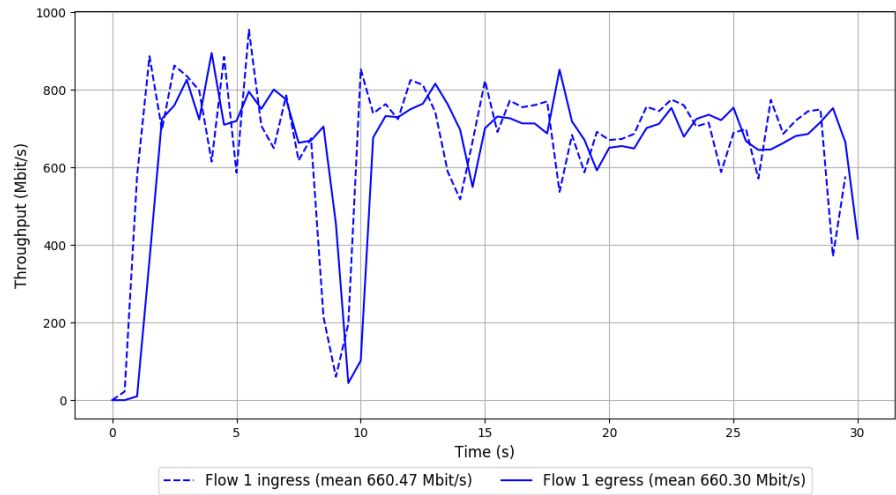


Run 9: Statistics of FillP

Start at: 2018-05-22 11:09:54  
End at: 2018-05-22 11:10:24  
Local clock offset: 0.027 ms  
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2018-05-22 12:06:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 660.30 Mbit/s  
95th percentile per-packet one-way delay: 270.488 ms  
Loss rate: 0.61%  
-- Flow 1:  
Average throughput: 660.30 Mbit/s  
95th percentile per-packet one-way delay: 270.488 ms  
Loss rate: 0.61%

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



Run 10: Statistics of FillP

Start at: 2018-05-22 11:30:13

End at: 2018-05-22 11:30:43

Local clock offset: 0.189 ms

Remote clock offset: 0.234 ms

# Below is generated by plot.py at 2018-05-22 12:06:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 118.08 Mbit/s

95th percentile per-packet one-way delay: 276.719 ms

Loss rate: 0.00%

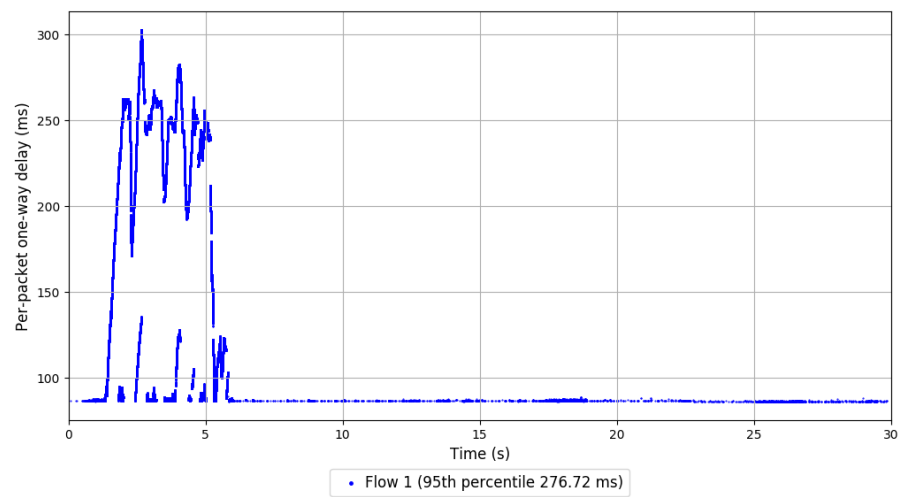
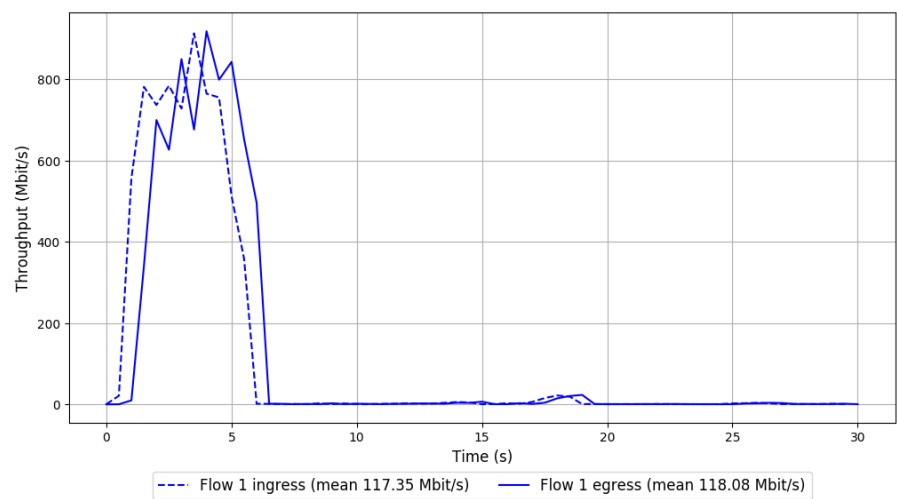
-- Flow 1:

Average throughput: 118.08 Mbit/s

95th percentile per-packet one-way delay: 276.719 ms

Loss rate: 0.00%

Run 10: Report of FillP — Data Link



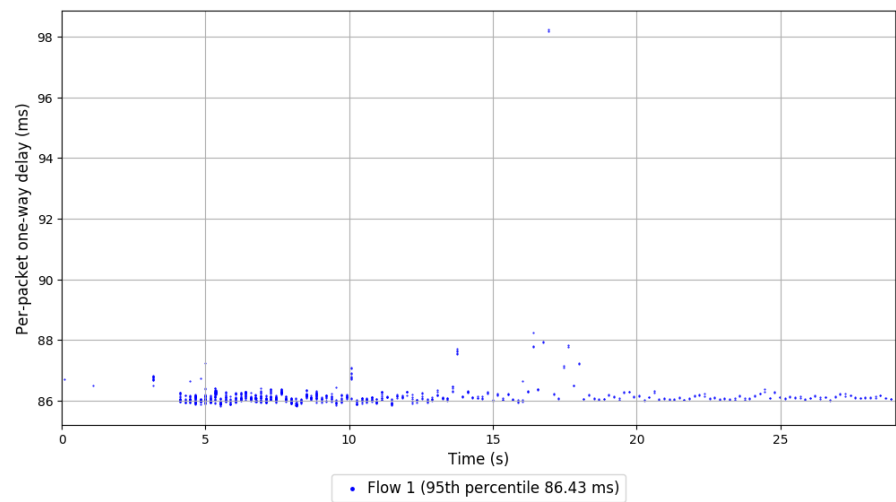
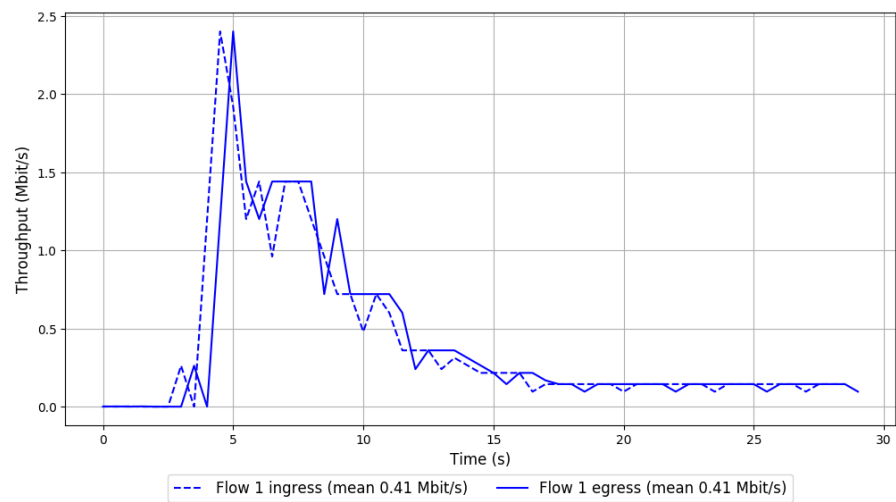
```
Run 1: Statistics of Indigo

Start at: 2018-05-22 08:33:54
End at: 2018-05-22 08:34:24
Local clock offset: 0.028 ms
Remote clock offset: 0.048 ms

# Below is generated by plot.py at 2018-05-22 12:06:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 86.429 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 86.429 ms
Loss rate: 0.20%
```



Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-05-22 08:53:56

End at: 2018-05-22 08:54:26

Local clock offset: 0.234 ms

Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2018-05-22 12:06:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 181.18 Mbit/s

95th percentile per-packet one-way delay: 86.678 ms

Loss rate: 0.60%

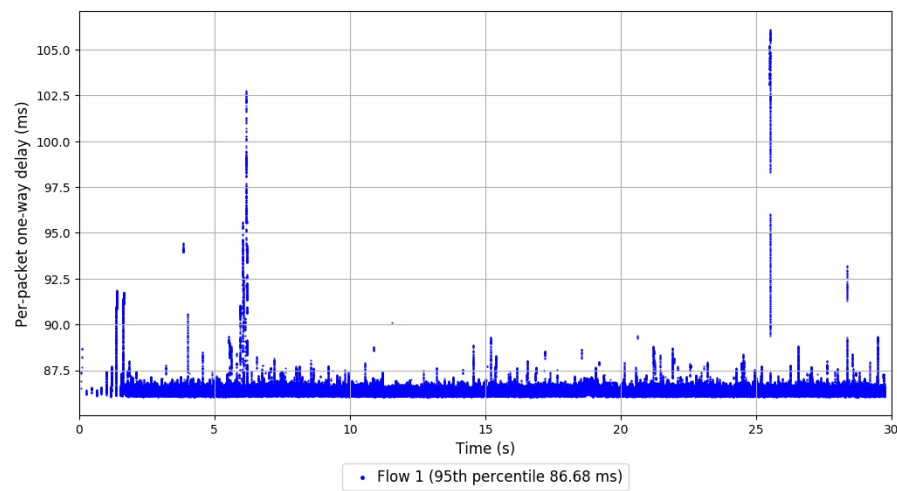
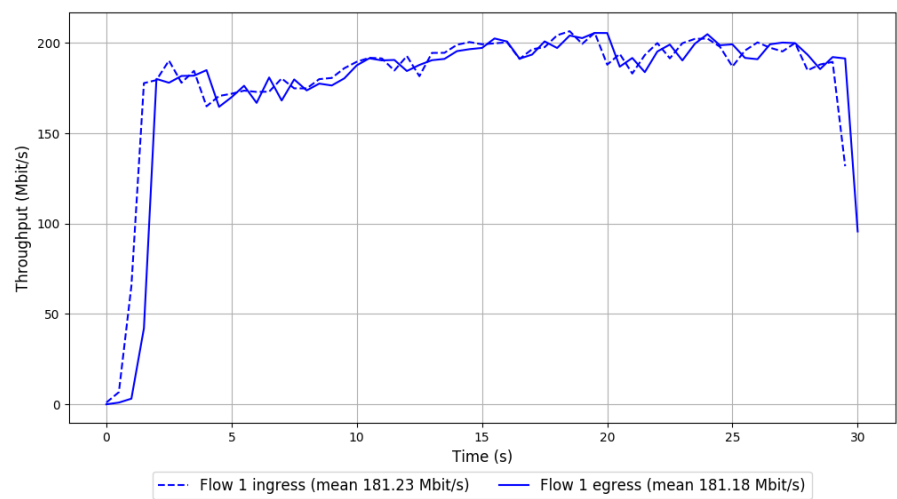
-- Flow 1:

Average throughput: 181.18 Mbit/s

95th percentile per-packet one-way delay: 86.678 ms

Loss rate: 0.60%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-05-22 09:14:21

End at: 2018-05-22 09:14:51

Local clock offset: 0.202 ms

Remote clock offset: 0.049 ms

# Below is generated by plot.py at 2018-05-22 12:06:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 179.22 Mbit/s

95th percentile per-packet one-way delay: 86.752 ms

Loss rate: 0.59%

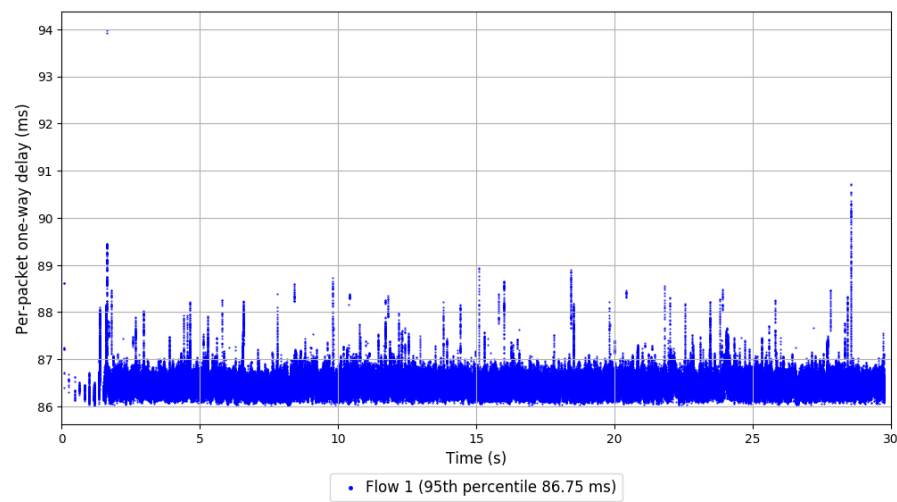
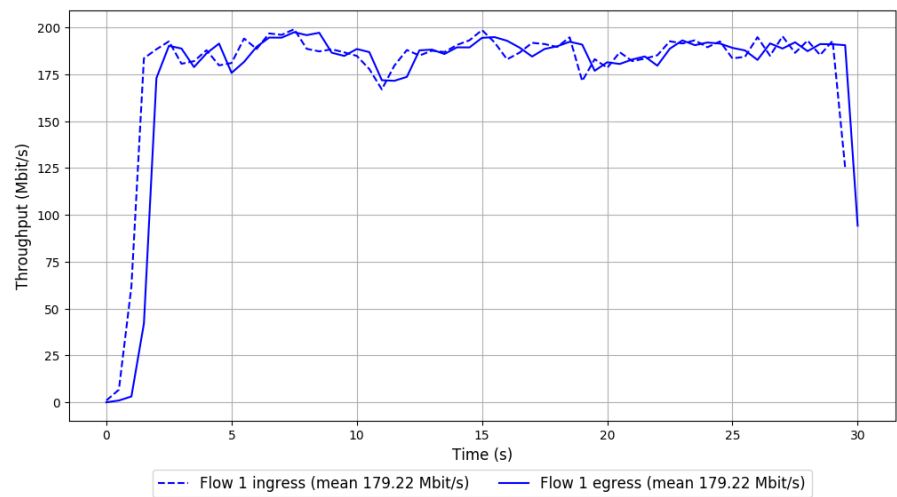
-- Flow 1:

Average throughput: 179.22 Mbit/s

95th percentile per-packet one-way delay: 86.752 ms

Loss rate: 0.59%

Run 3: Report of Indigo — Data Link

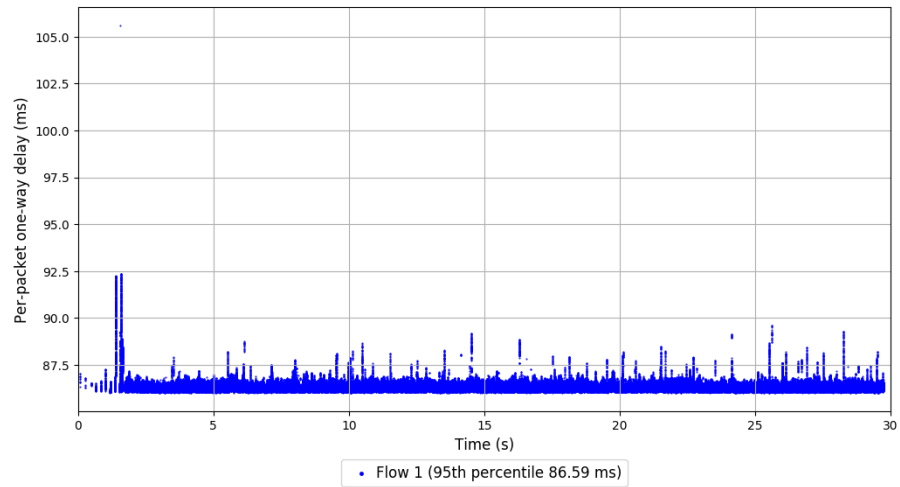
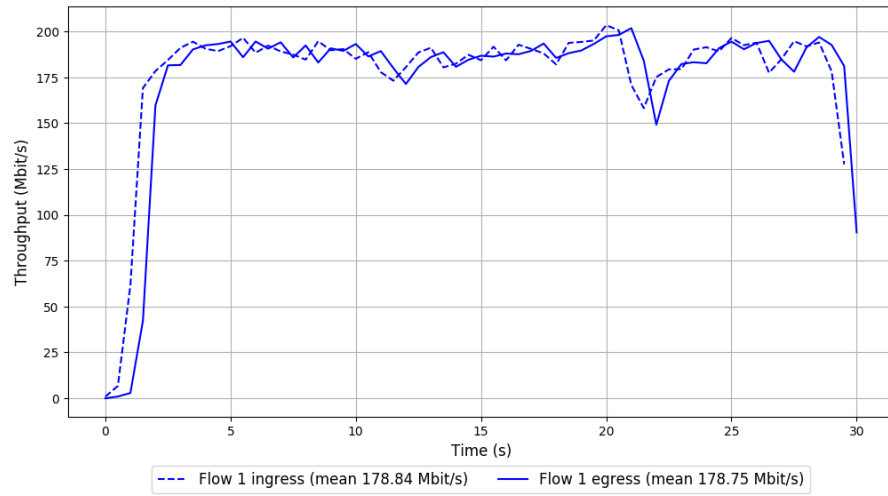


Run 4: Statistics of Indigo

Start at: 2018-05-22 09:34:39  
End at: 2018-05-22 09:35:09  
Local clock offset: 0.246 ms  
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2018-05-22 12:06:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 178.75 Mbit/s  
95th percentile per-packet one-way delay: 86.587 ms  
Loss rate: 0.63%  
-- Flow 1:  
Average throughput: 178.75 Mbit/s  
95th percentile per-packet one-way delay: 86.587 ms  
Loss rate: 0.63%

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



Run 5: Statistics of Indigo

Start at: 2018-05-22 09:54:38

End at: 2018-05-22 09:55:08

Local clock offset: 0.325 ms

Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2018-05-22 12:06:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 183.40 Mbit/s

95th percentile per-packet one-way delay: 86.812 ms

Loss rate: 0.55%

-- Flow 1:

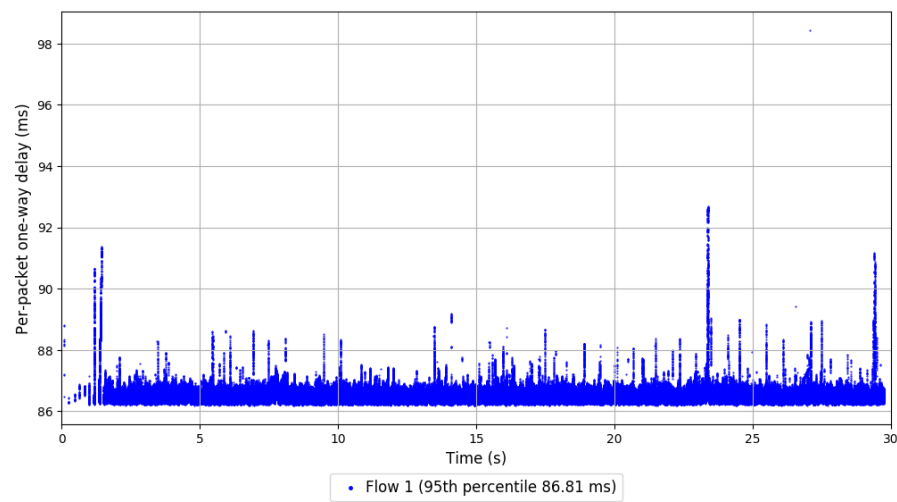
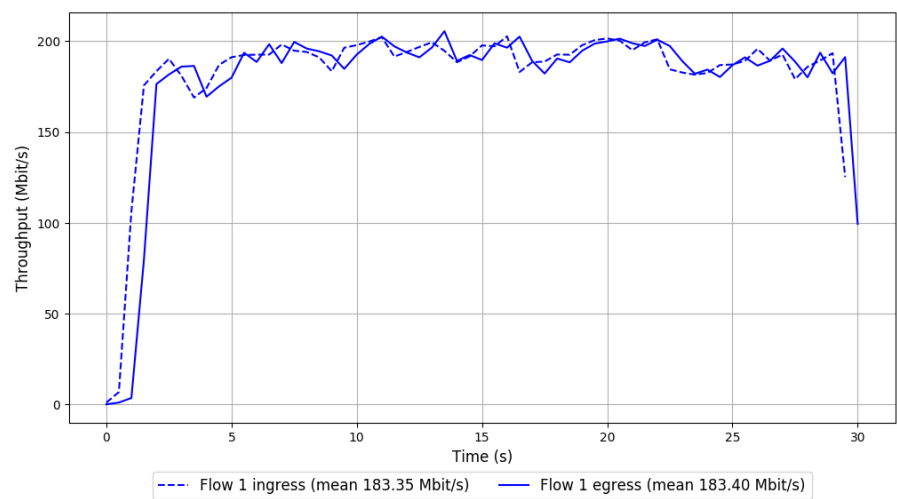
Average throughput: 183.40 Mbit/s

95th percentile per-packet one-way delay: 86.812 ms

Loss rate: 0.55%



Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-05-22 10:14:52

End at: 2018-05-22 10:15:22

Local clock offset: 0.484 ms

Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2018-05-22 12:06:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 151.25 Mbit/s

95th percentile per-packet one-way delay: 87.137 ms

Loss rate: 0.65%

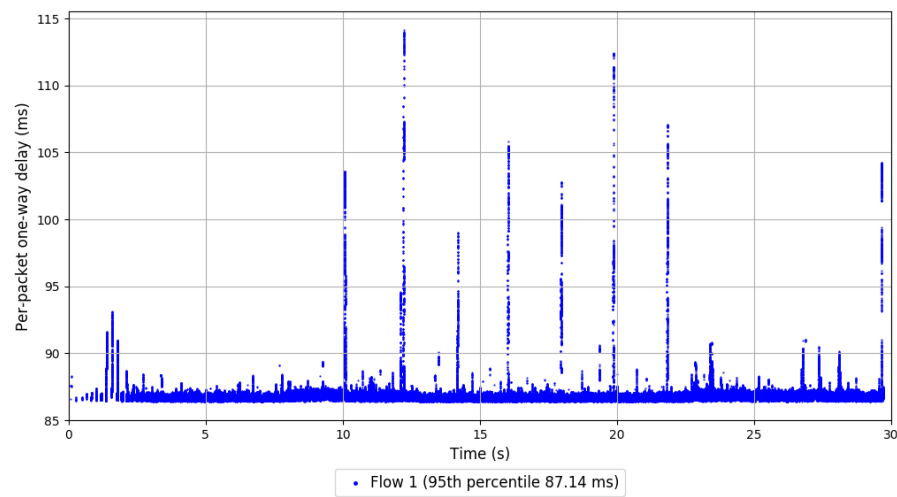
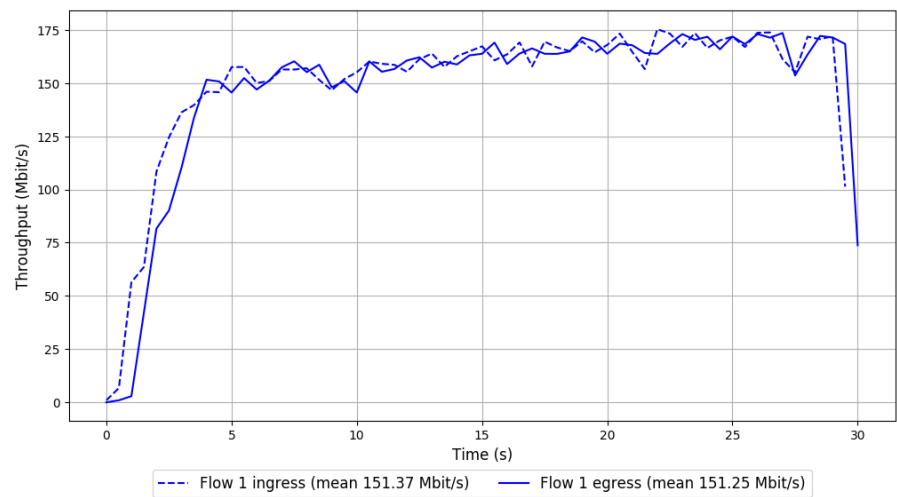
-- Flow 1:

Average throughput: 151.25 Mbit/s

95th percentile per-packet one-way delay: 87.137 ms

Loss rate: 0.65%

Run 6: Report of Indigo — Data Link

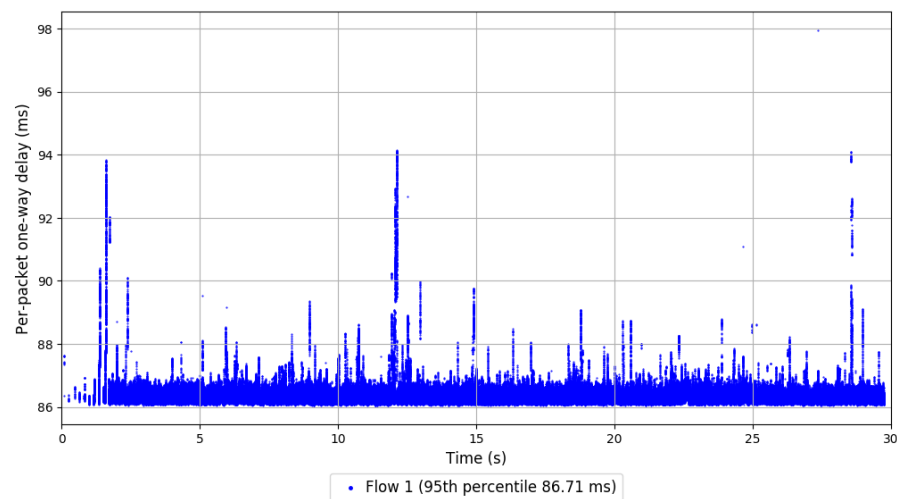
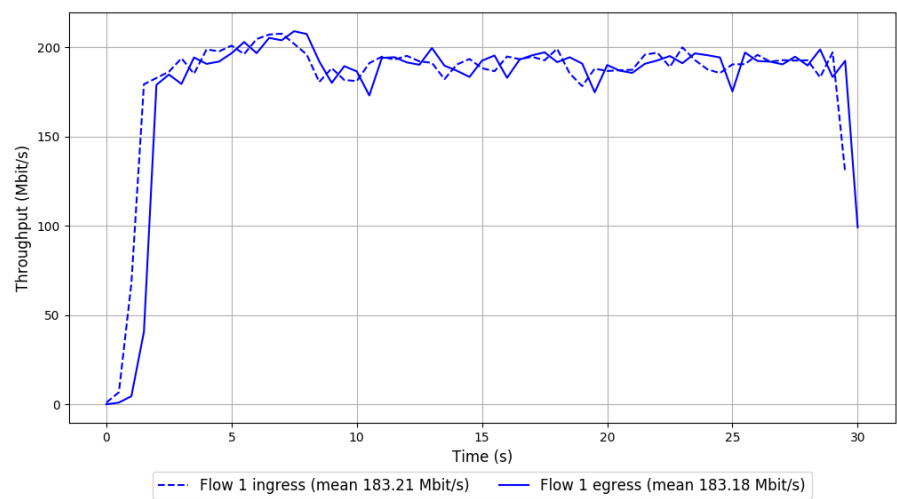


Run 7: Statistics of Indigo

Start at: 2018-05-22 10:34:53  
End at: 2018-05-22 10:35:23  
Local clock offset: 0.107 ms  
Remote clock offset: -0.126 ms

# Below is generated by plot.py at 2018-05-22 12:06:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 183.18 Mbit/s  
95th percentile per-packet one-way delay: 86.706 ms  
Loss rate: 0.60%  
-- Flow 1:  
Average throughput: 183.18 Mbit/s  
95th percentile per-packet one-way delay: 86.706 ms  
Loss rate: 0.60%

Run 7: Report of Indigo — Data Link

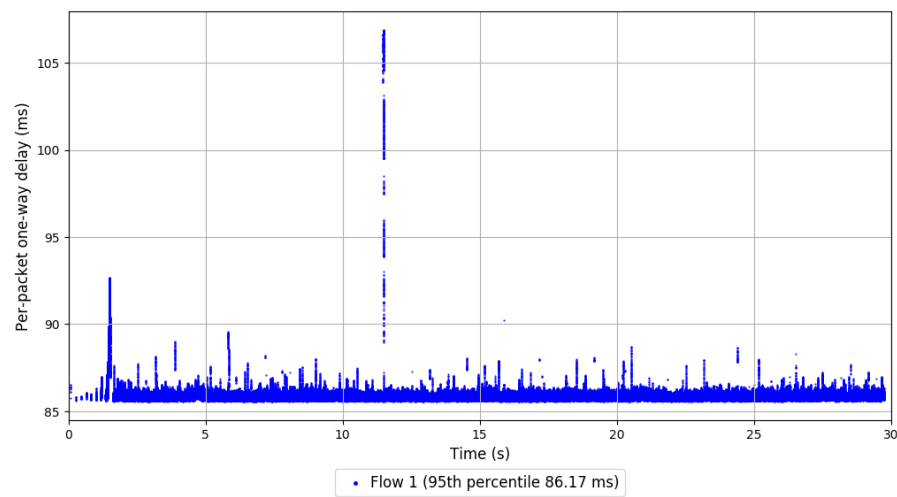
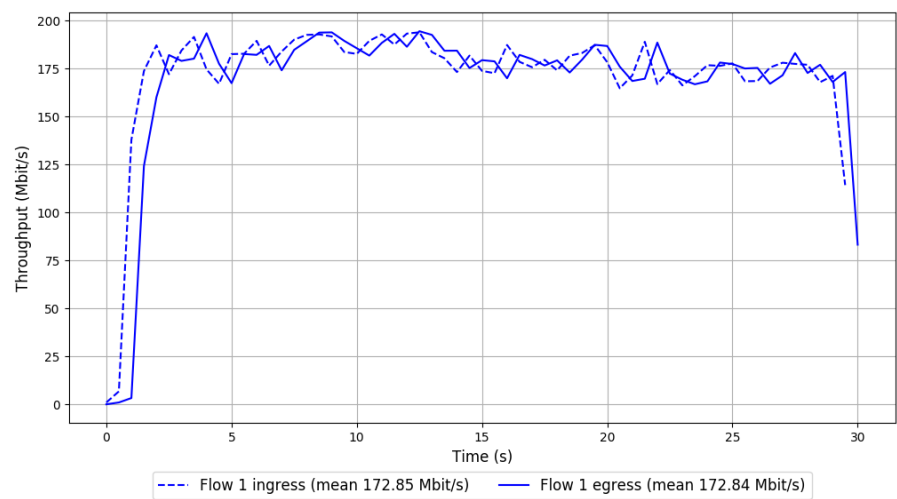


Run 8: Statistics of Indigo

Start at: 2018-05-22 10:55:10  
End at: 2018-05-22 10:55:40  
Local clock offset: -0.351 ms  
Remote clock offset: -0.166 ms

# Below is generated by plot.py at 2018-05-22 12:06:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 172.84 Mbit/s  
95th percentile per-packet one-way delay: 86.165 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 172.84 Mbit/s  
95th percentile per-packet one-way delay: 86.165 ms  
Loss rate: 0.58%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

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

End at: 2018-05-22 11:15:52

Local clock offset: 0.154 ms

Remote clock offset: 0.049 ms

# Below is generated by plot.py at 2018-05-22 12:06:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 161.94 Mbit/s

95th percentile per-packet one-way delay: 87.964 ms

Loss rate: 0.59%

-- Flow 1:

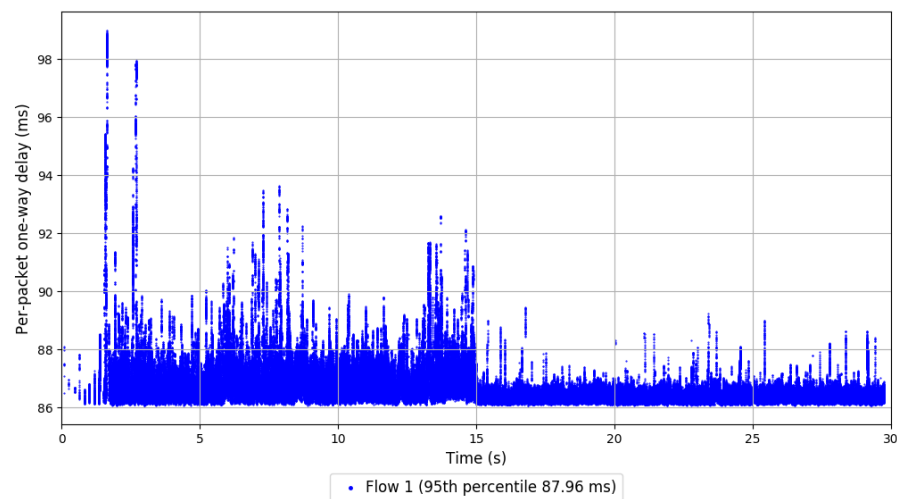
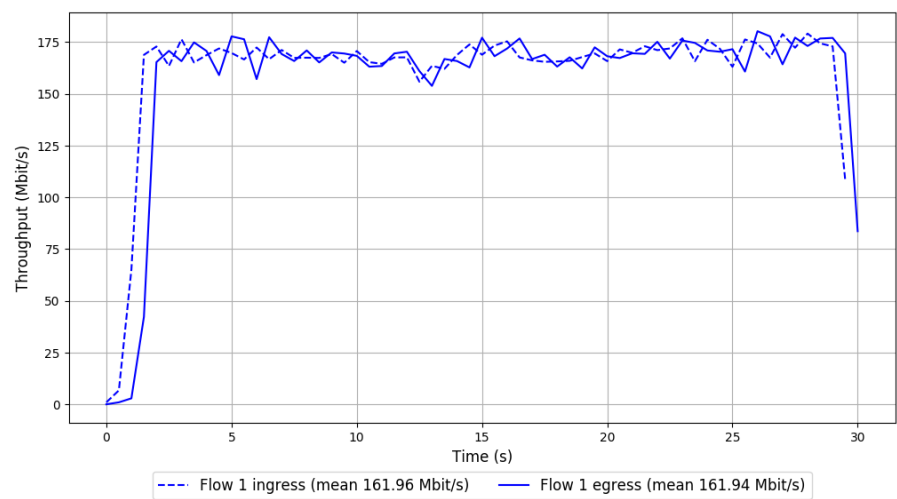
Average throughput: 161.94 Mbit/s

95th percentile per-packet one-way delay: 87.964 ms

Loss rate: 0.59%



Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-05-22 11:35:19

End at: 2018-05-22 11:35:49

Local clock offset: 0.395 ms

Remote clock offset: 0.308 ms

# Below is generated by plot.py at 2018-05-22 12:06:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 160.70 Mbit/s

95th percentile per-packet one-way delay: 87.140 ms

Loss rate: 0.60%

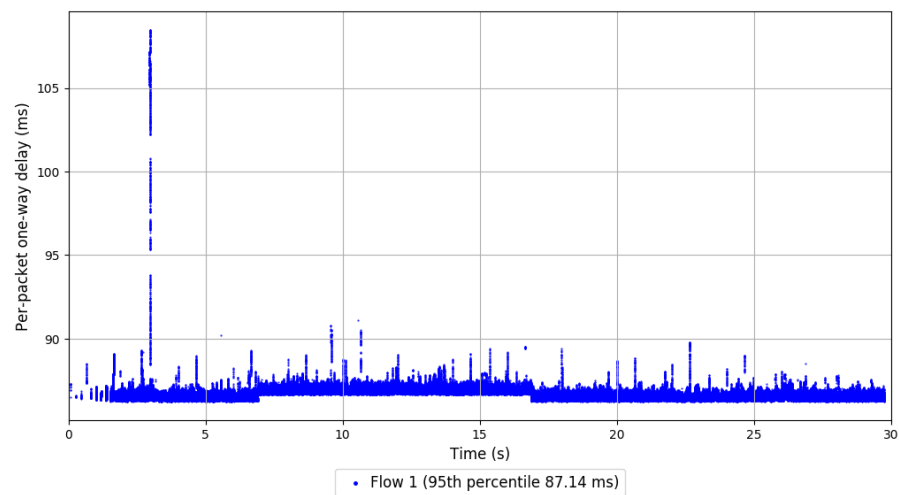
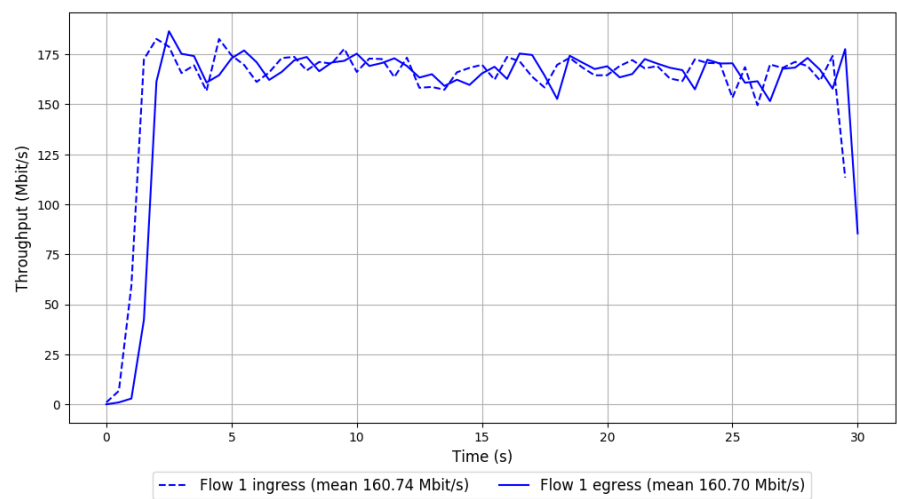
-- Flow 1:

Average throughput: 160.70 Mbit/s

95th percentile per-packet one-way delay: 87.140 ms

Loss rate: 0.60%

Run 10: Report of Indigo — Data Link

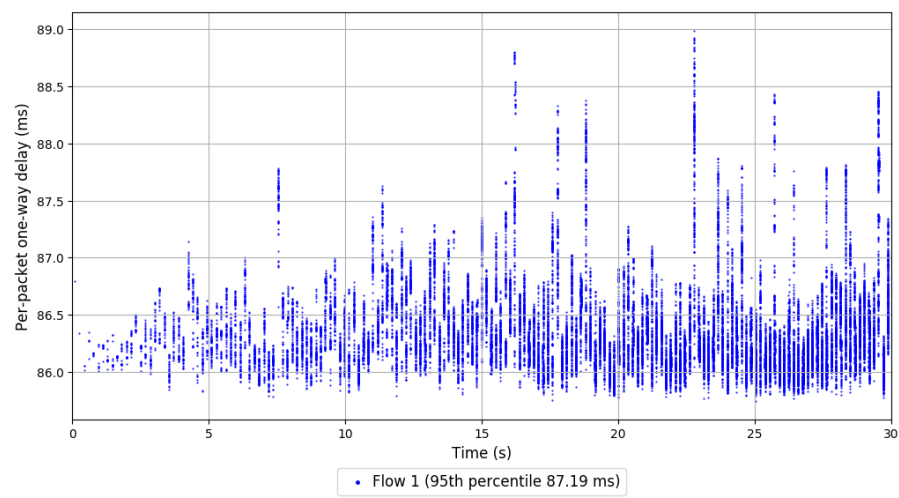
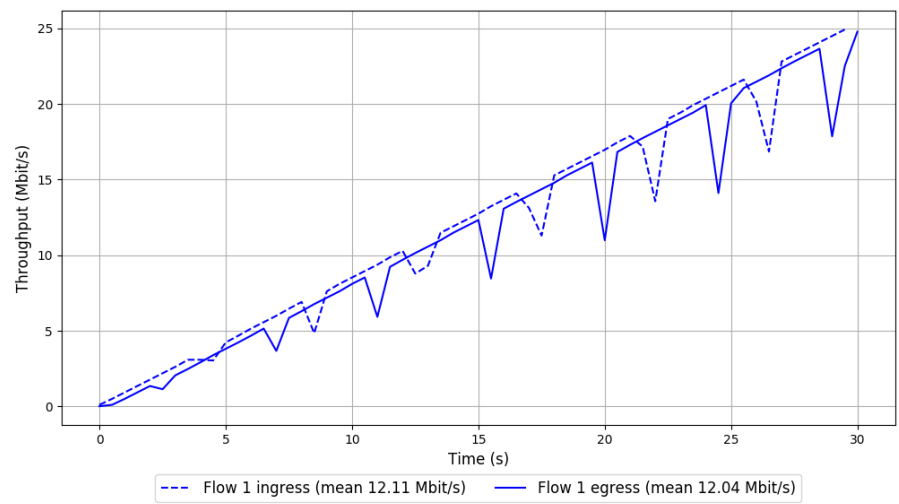


```
Run 1: Statistics of LEDBAT

Start at: 2018-05-22 08:24:45
End at: 2018-05-22 08:25:15
Local clock offset: 0.002 ms
Remote clock offset: 0.051 ms

# Below is generated by plot.py at 2018-05-22 12:06:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.04 Mbit/s
95th percentile per-packet one-way delay: 87.192 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.04 Mbit/s
95th percentile per-packet one-way delay: 87.192 ms
Loss rate: 1.15%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-05-22 08:44:48

End at: 2018-05-22 08:45:18

Local clock offset: -0.105 ms

Remote clock offset: 0.047 ms

# Below is generated by plot.py at 2018-05-22 12:06:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.03 Mbit/s

95th percentile per-packet one-way delay: 87.975 ms

Loss rate: 1.15%

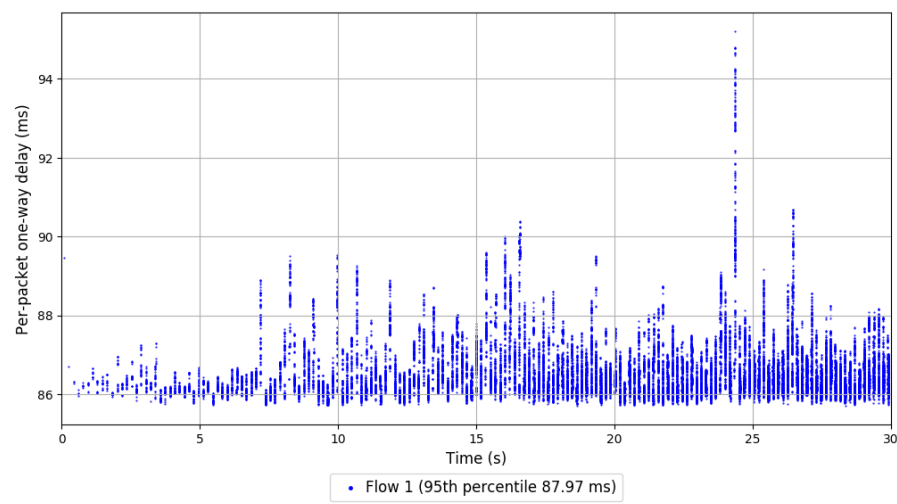
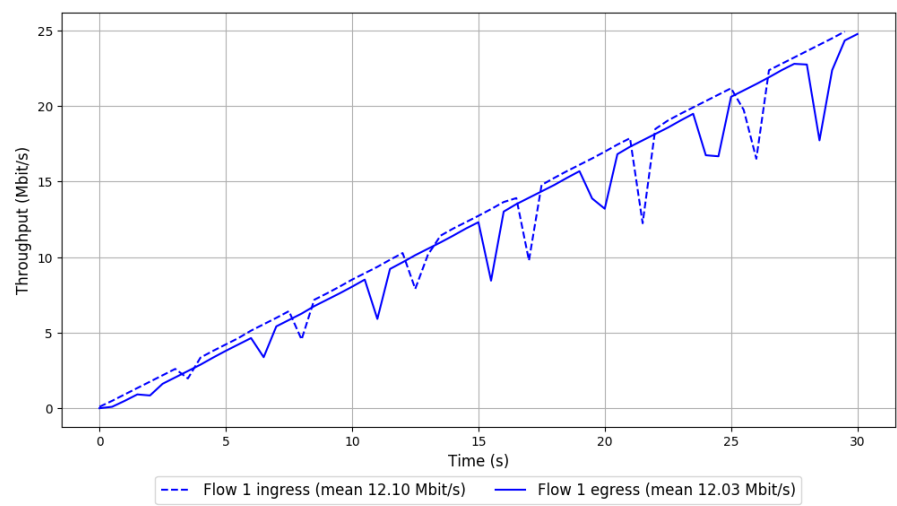
-- Flow 1:

Average throughput: 12.03 Mbit/s

95th percentile per-packet one-way delay: 87.975 ms

Loss rate: 1.15%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-05-22 09:05:07

End at: 2018-05-22 09:05:37

Local clock offset: 0.566 ms

Remote clock offset: 0.067 ms

# Below is generated by plot.py at 2018-05-22 12:06:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.06 Mbit/s

95th percentile per-packet one-way delay: 87.623 ms

Loss rate: 1.15%

-- Flow 1:

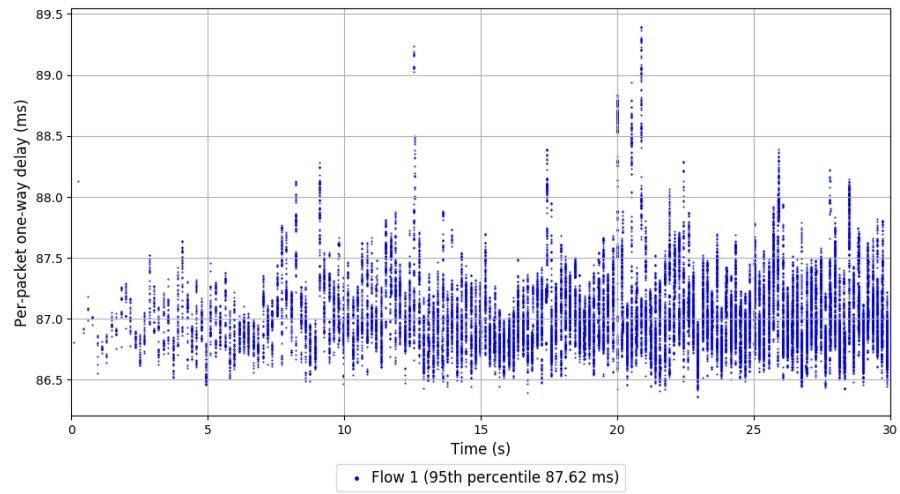
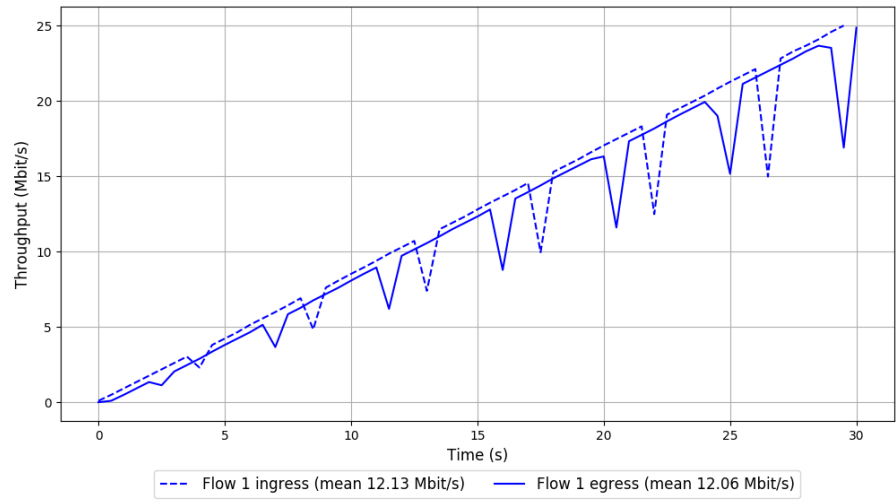
Average throughput: 12.06 Mbit/s

95th percentile per-packet one-way delay: 87.623 ms

Loss rate: 1.15%



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



Run 4: Statistics of LEDBAT

Start at: 2018-05-22 09:25:27

End at: 2018-05-22 09:25:57

Local clock offset: 0.109 ms

Remote clock offset: 0.087 ms

# Below is generated by plot.py at 2018-05-22 12:06:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 8.47 Mbit/s

95th percentile per-packet one-way delay: 88.332 ms

Loss rate: 1.37%

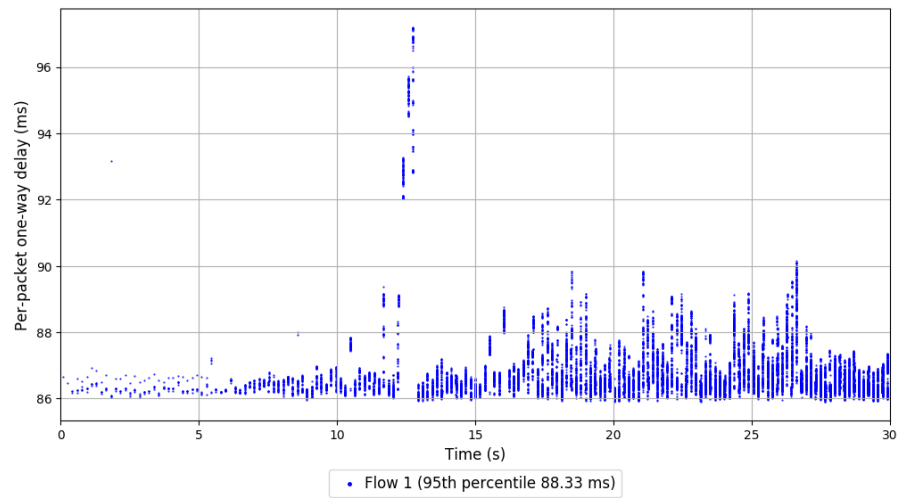
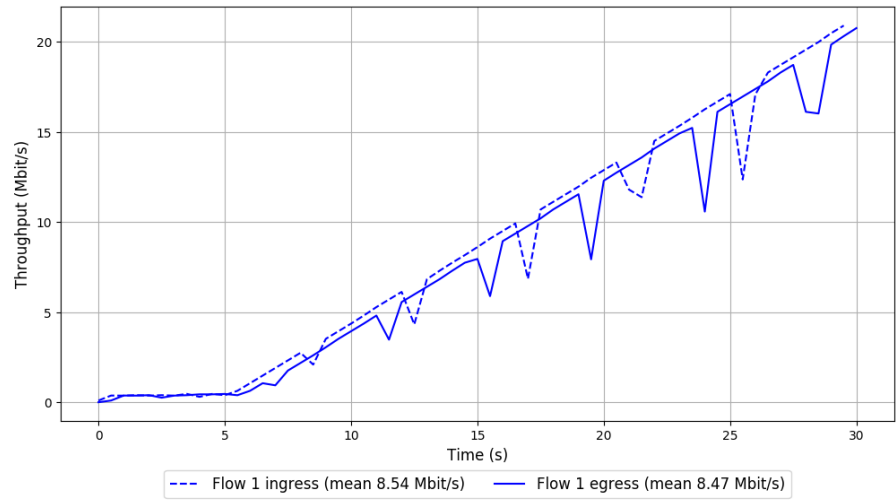
-- Flow 1:

Average throughput: 8.47 Mbit/s

95th percentile per-packet one-way delay: 88.332 ms

Loss rate: 1.37%

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

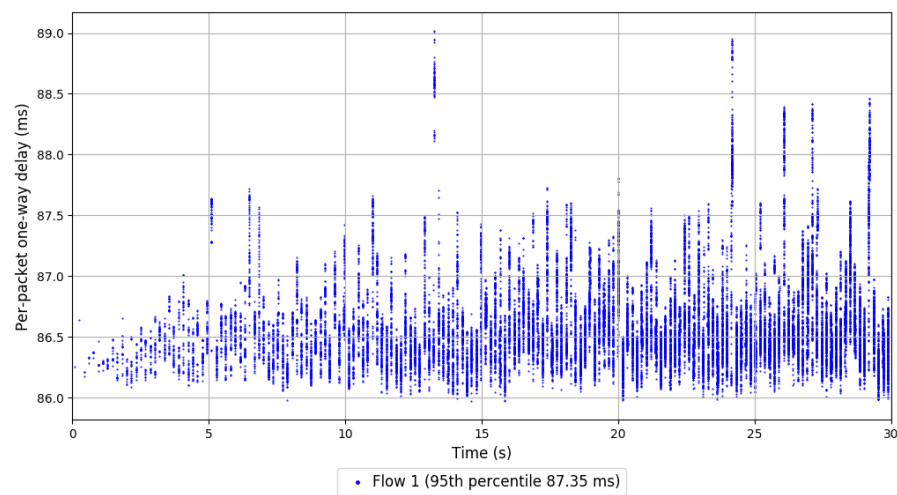
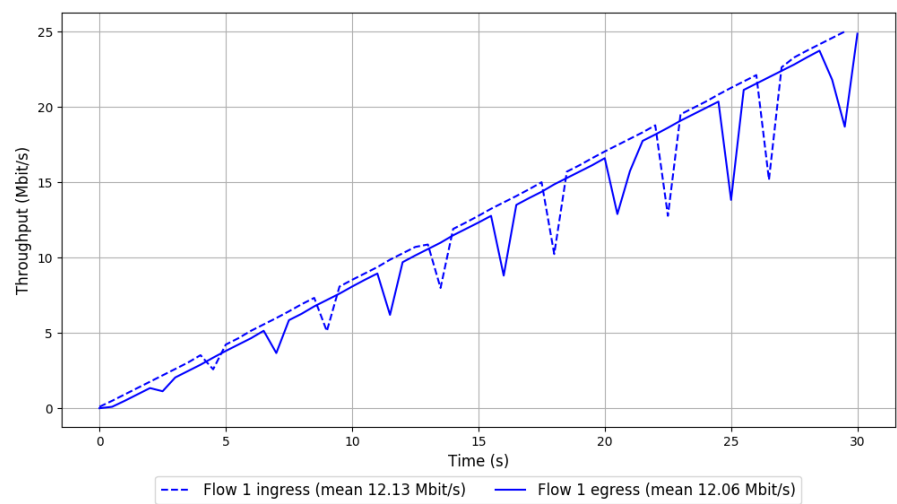


Run 5: Statistics of LEDBAT

Start at: 2018-05-22 09:45:47  
End at: 2018-05-22 09:46:17  
Local clock offset: 0.085 ms  
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2018-05-22 12:06:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.06 Mbit/s  
95th percentile per-packet one-way delay: 87.350 ms  
Loss rate: 1.15%  
-- Flow 1:  
Average throughput: 12.06 Mbit/s  
95th percentile per-packet one-way delay: 87.350 ms  
Loss rate: 1.15%

Run 5: Report of LEDBAT — Data Link

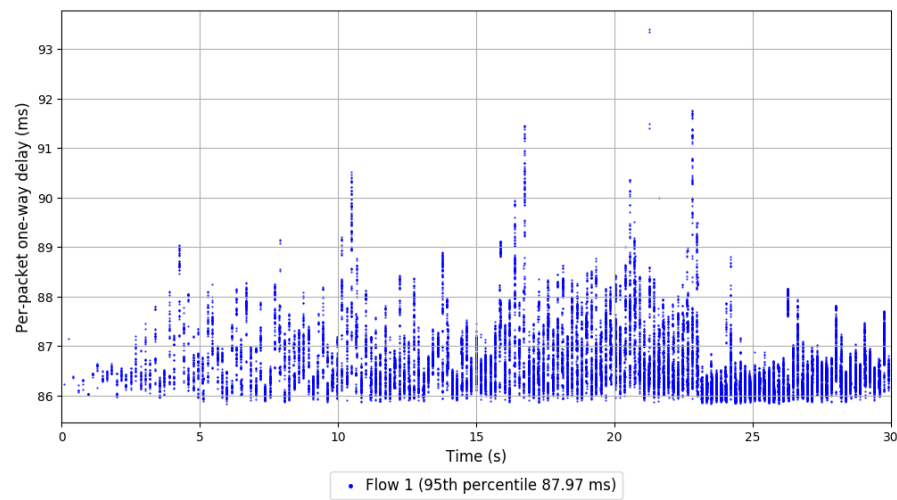
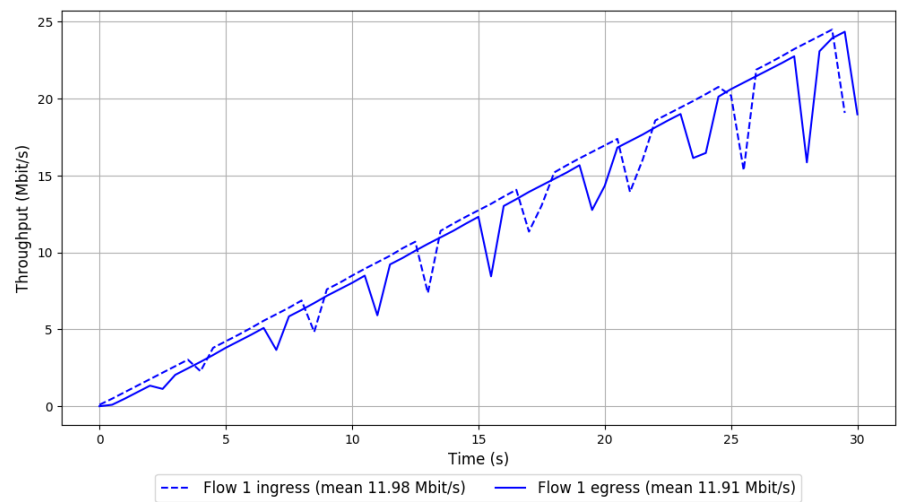


Run 6: Statistics of LEDBAT

Start at: 2018-05-22 10:05:41  
End at: 2018-05-22 10:06:11  
Local clock offset: -0.096 ms  
Remote clock offset: -0.131 ms

# Below is generated by plot.py at 2018-05-22 12:06:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 11.91 Mbit/s  
95th percentile per-packet one-way delay: 87.966 ms  
Loss rate: 1.16%  
-- Flow 1:  
Average throughput: 11.91 Mbit/s  
95th percentile per-packet one-way delay: 87.966 ms  
Loss rate: 1.16%

Run 6: Report of LEDBAT — Data Link



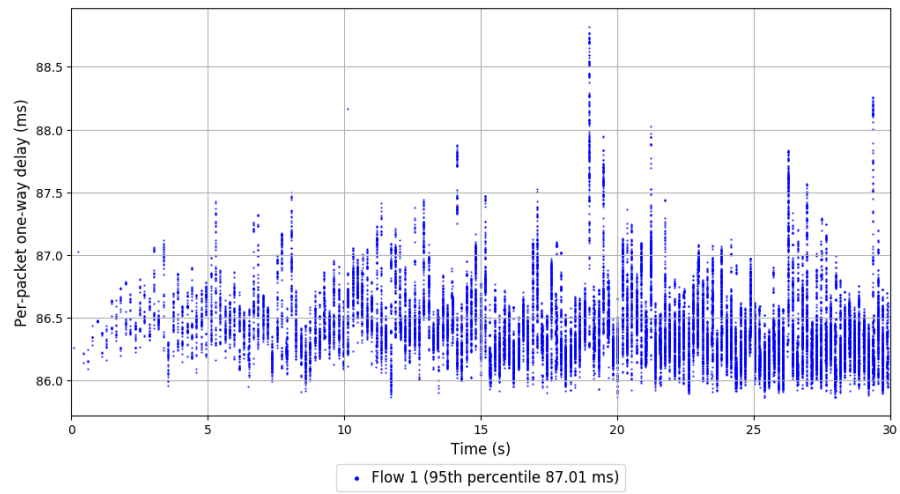
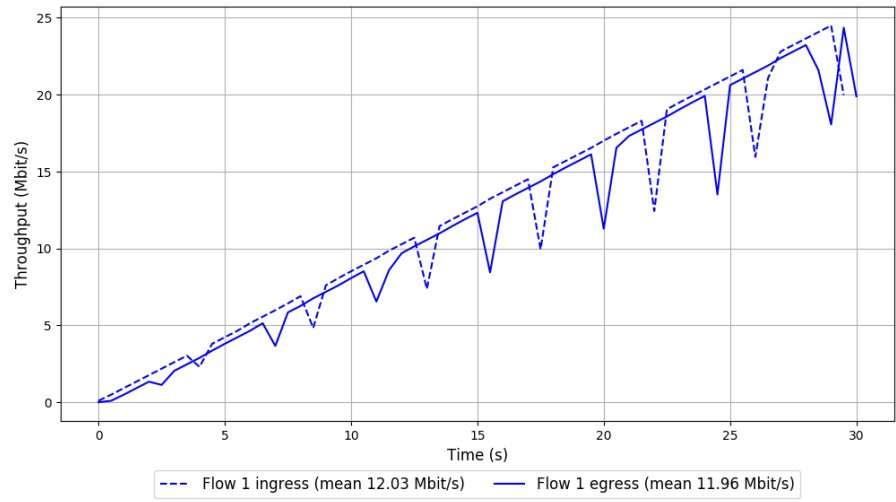
Run 7: Statistics of LEDBAT

Start at: 2018-05-22 10:25:56  
End at: 2018-05-22 10:26:26  
Local clock offset: -0.107 ms  
Remote clock offset: -0.146 ms

# Below is generated by plot.py at 2018-05-22 12:06:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 11.96 Mbit/s  
95th percentile per-packet one-way delay: 87.014 ms  
Loss rate: 1.15%  
-- Flow 1:  
Average throughput: 11.96 Mbit/s  
95th percentile per-packet one-way delay: 87.014 ms  
Loss rate: 1.15%



# Run 7: Report of LEDBAT — Data Link

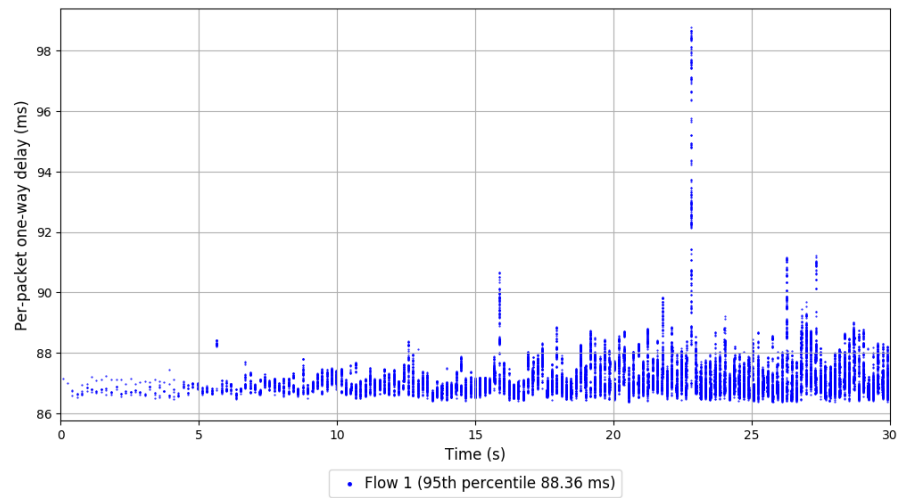
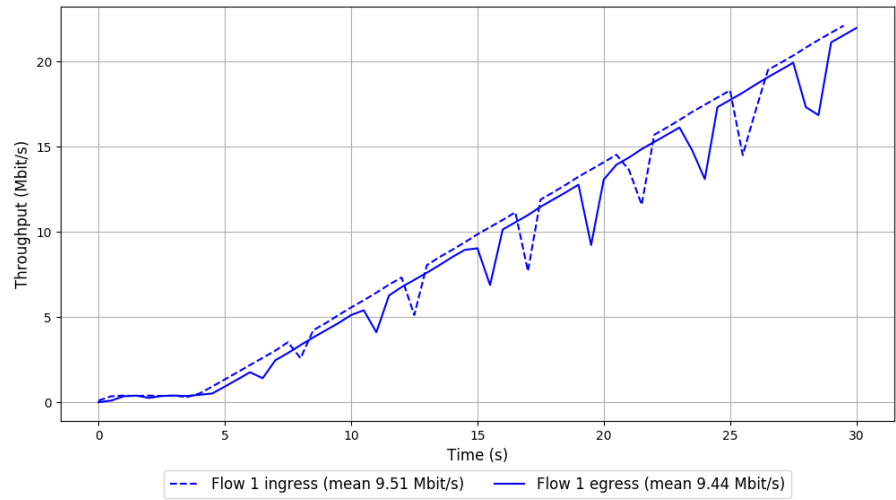


Run 8: Statistics of LEDBAT

Start at: 2018-05-22 10:45:53  
End at: 2018-05-22 10:46:23  
Local clock offset: 0.425 ms  
Remote clock offset: -0.139 ms

# Below is generated by plot.py at 2018-05-22 12:06:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 9.44 Mbit/s  
95th percentile per-packet one-way delay: 88.361 ms  
Loss rate: 1.30%  
-- Flow 1:  
Average throughput: 9.44 Mbit/s  
95th percentile per-packet one-way delay: 88.361 ms  
Loss rate: 1.30%

## Run 8: Report of LEDBAT — Data Link

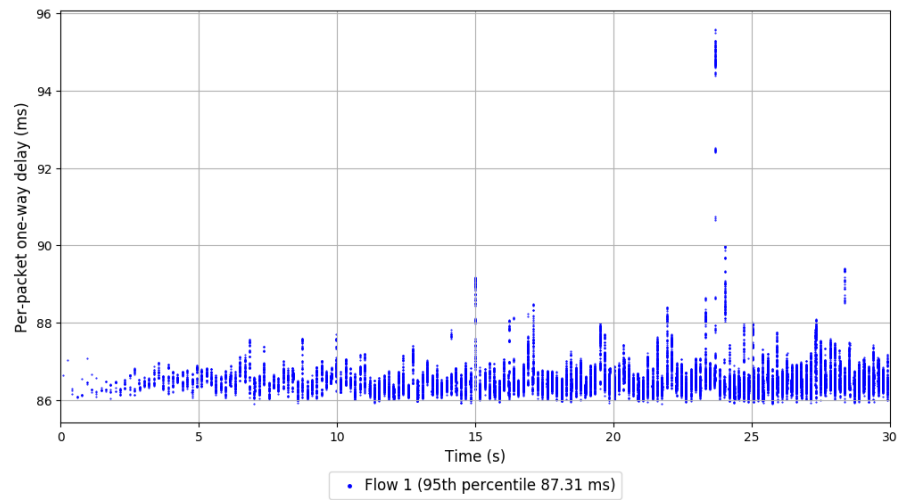
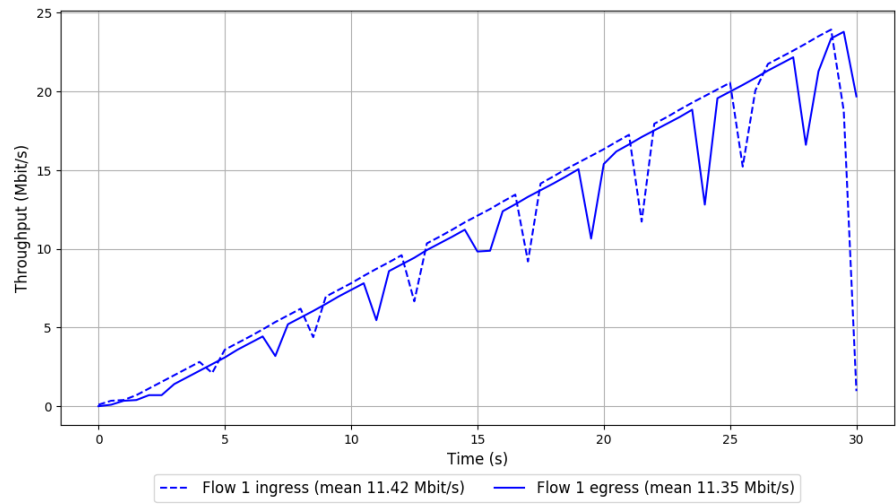


Run 9: Statistics of LEDBAT

Start at: 2018-05-22 11:06:13  
End at: 2018-05-22 11:06:43  
Local clock offset: 0.017 ms  
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2018-05-22 12:06:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 11.35 Mbit/s  
95th percentile per-packet one-way delay: 87.306 ms  
Loss rate: 1.18%  
-- Flow 1:  
Average throughput: 11.35 Mbit/s  
95th percentile per-packet one-way delay: 87.306 ms  
Loss rate: 1.18%

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



Run 10: Statistics of LEDBAT

Start at: 2018-05-22 11:26:27

End at: 2018-05-22 11:26:57

Local clock offset: 0.198 ms

Remote clock offset: 0.223 ms

# Below is generated by plot.py at 2018-05-22 12:06:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.98 Mbit/s

95th percentile per-packet one-way delay: 87.315 ms

Loss rate: 1.16%

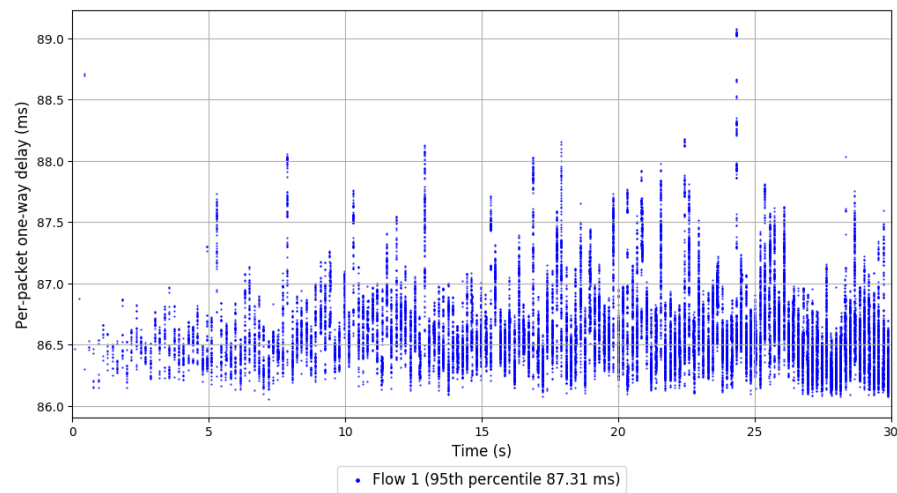
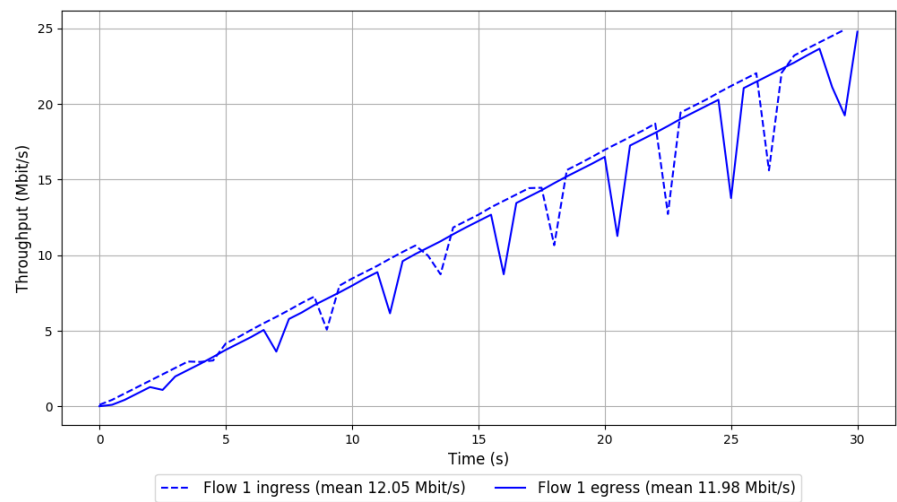
-- Flow 1:

Average throughput: 11.98 Mbit/s

95th percentile per-packet one-way delay: 87.315 ms

Loss rate: 1.16%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-05-22 08:21:07

End at: 2018-05-22 08:21:37

Local clock offset: 0.247 ms

Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2018-05-22 12:11:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 334.62 Mbit/s

95th percentile per-packet one-way delay: 253.096 ms

Loss rate: 1.14%

-- Flow 1:

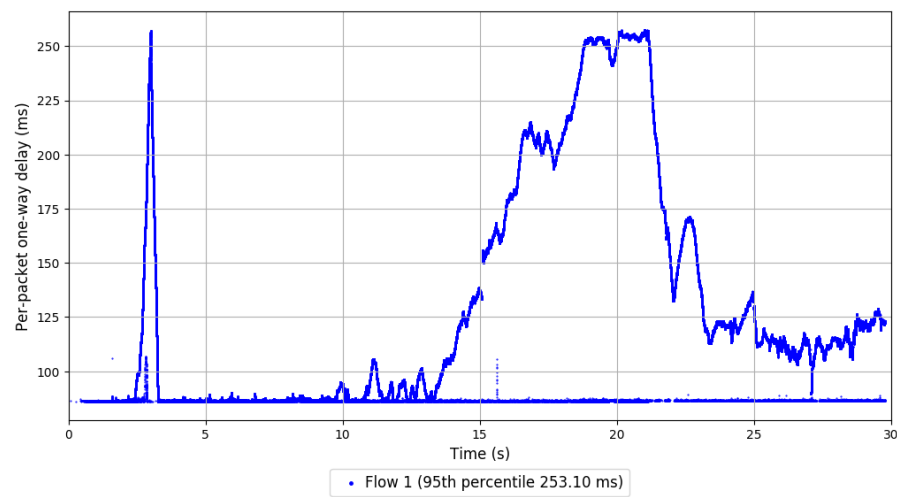
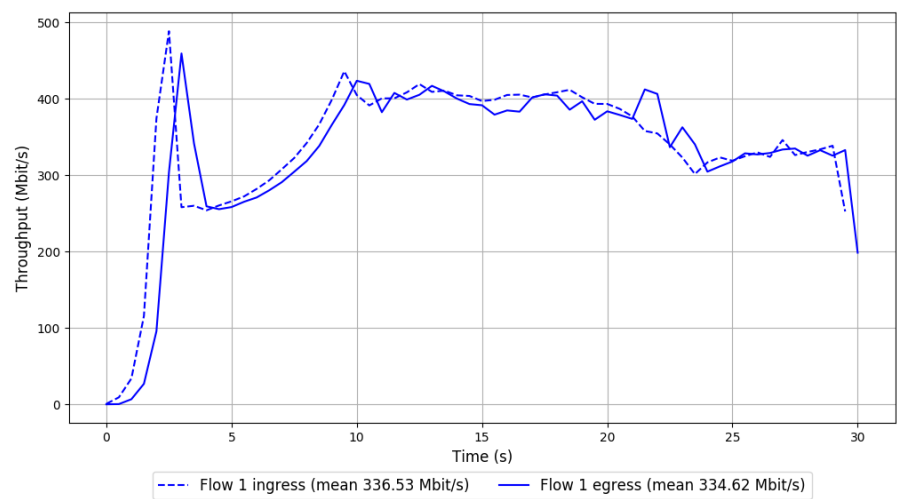
Average throughput: 334.62 Mbit/s

95th percentile per-packet one-way delay: 253.096 ms

Loss rate: 1.14%



Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-22 08:41:09

End at: 2018-05-22 08:41:40

Local clock offset: -0.017 ms

Remote clock offset: 0.103 ms

# Below is generated by plot.py at 2018-05-22 12:11:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 308.23 Mbit/s

95th percentile per-packet one-way delay: 100.765 ms

Loss rate: 0.73%

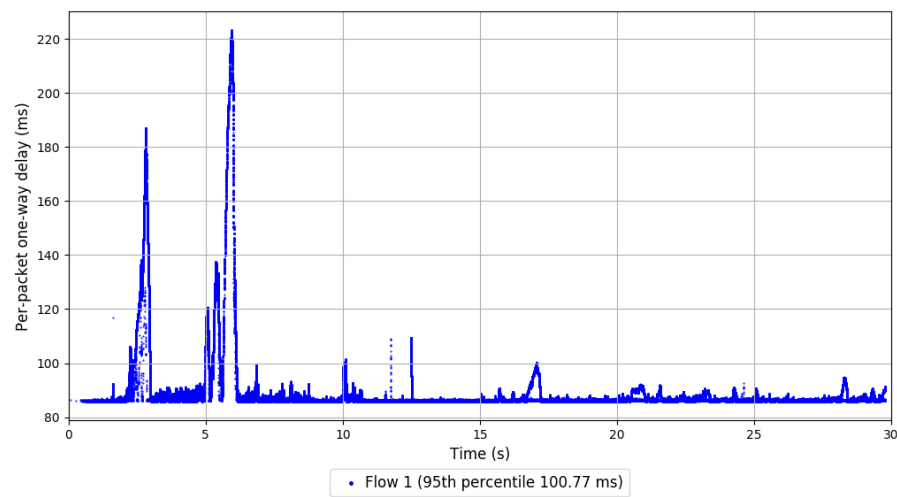
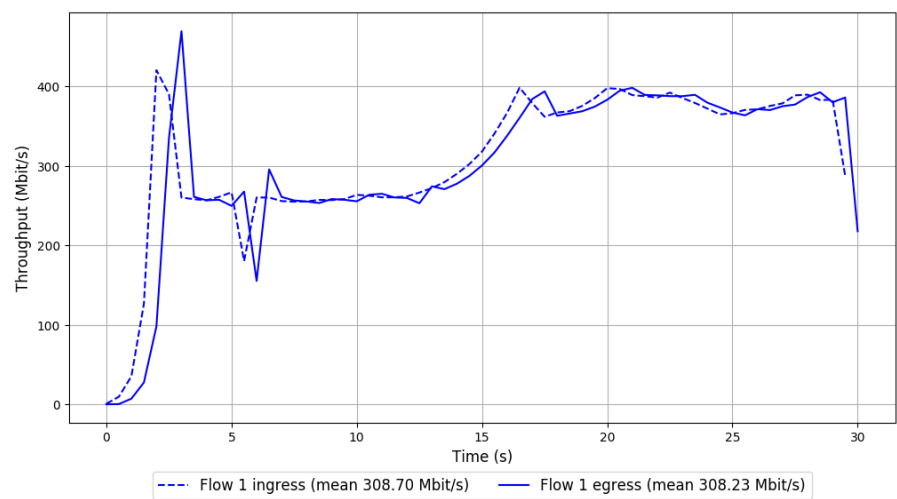
-- Flow 1:

Average throughput: 308.23 Mbit/s

95th percentile per-packet one-way delay: 100.765 ms

Loss rate: 0.73%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-05-22 09:01:28

End at: 2018-05-22 09:01:58

Local clock offset: 0.013 ms

Remote clock offset: 0.142 ms

# Below is generated by plot.py at 2018-05-22 12:11:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 348.64 Mbit/s

95th percentile per-packet one-way delay: 116.421 ms

Loss rate: 0.80%

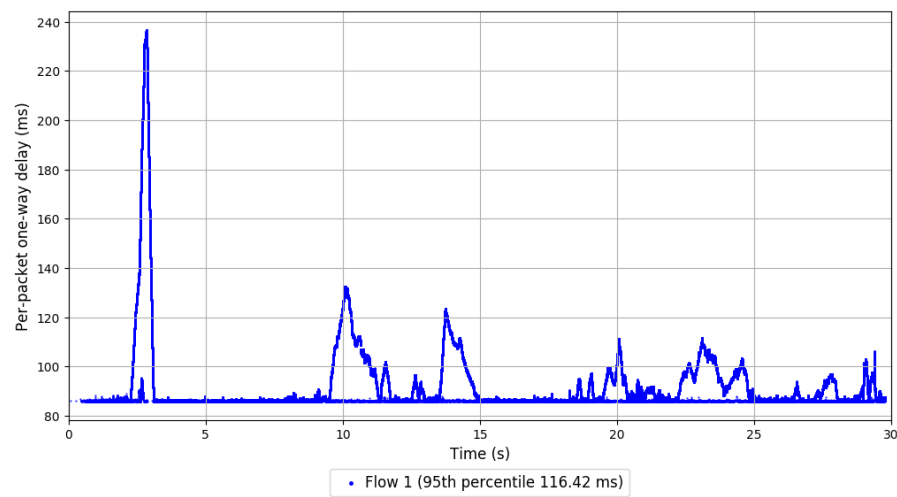
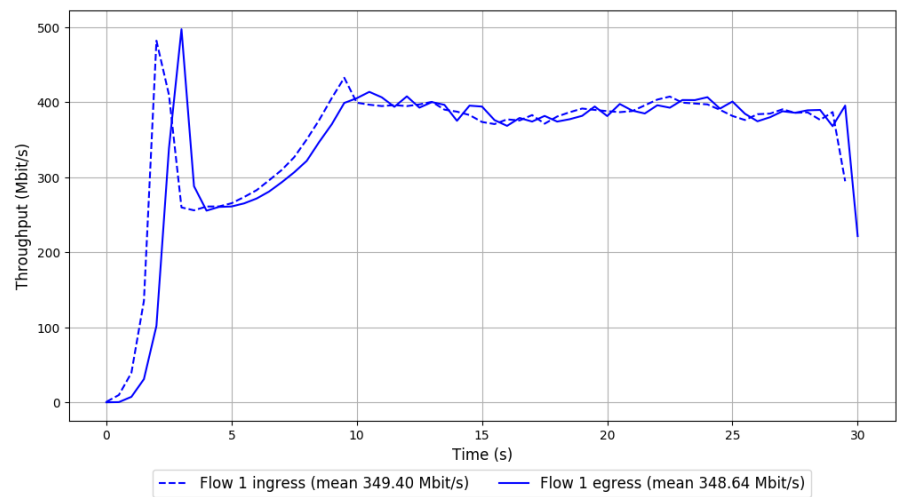
-- Flow 1:

Average throughput: 348.64 Mbit/s

95th percentile per-packet one-way delay: 116.421 ms

Loss rate: 0.80%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-05-22 09:21:48

End at: 2018-05-22 09:22:18

Local clock offset: -0.122 ms

Remote clock offset: 0.027 ms

# Below is generated by plot.py at 2018-05-22 12:11:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 334.29 Mbit/s

95th percentile per-packet one-way delay: 131.852 ms

Loss rate: 0.83%

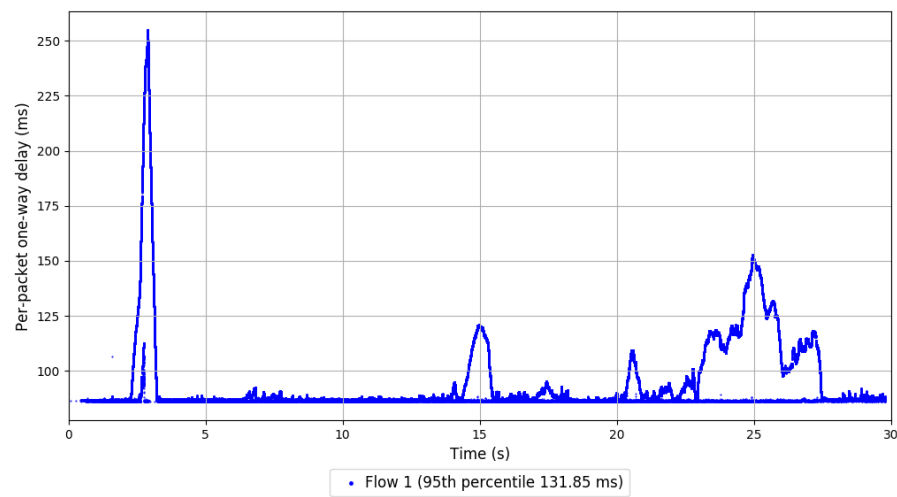
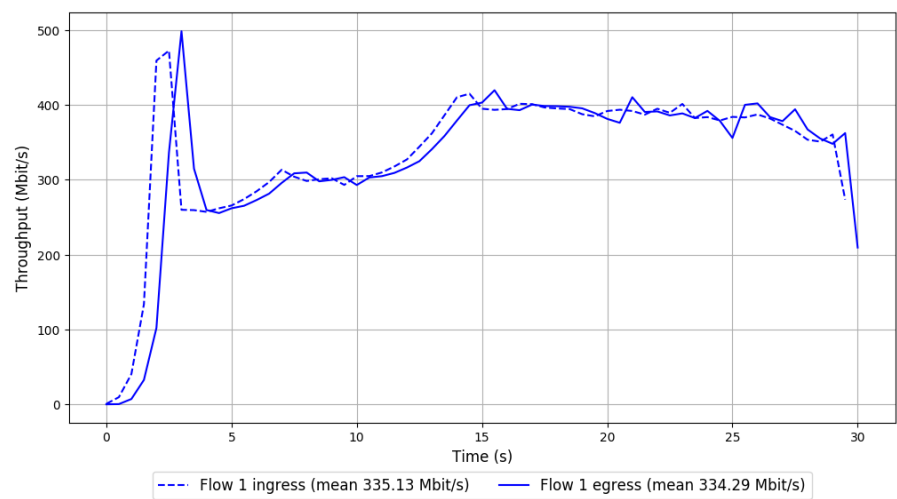
-- Flow 1:

Average throughput: 334.29 Mbit/s

95th percentile per-packet one-way delay: 131.852 ms

Loss rate: 0.83%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-05-22 09:42:08

End at: 2018-05-22 09:42:38

Local clock offset: 0.011 ms

Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2018-05-22 12:11:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 339.46 Mbit/s

95th percentile per-packet one-way delay: 125.690 ms

Loss rate: 0.93%

-- Flow 1:

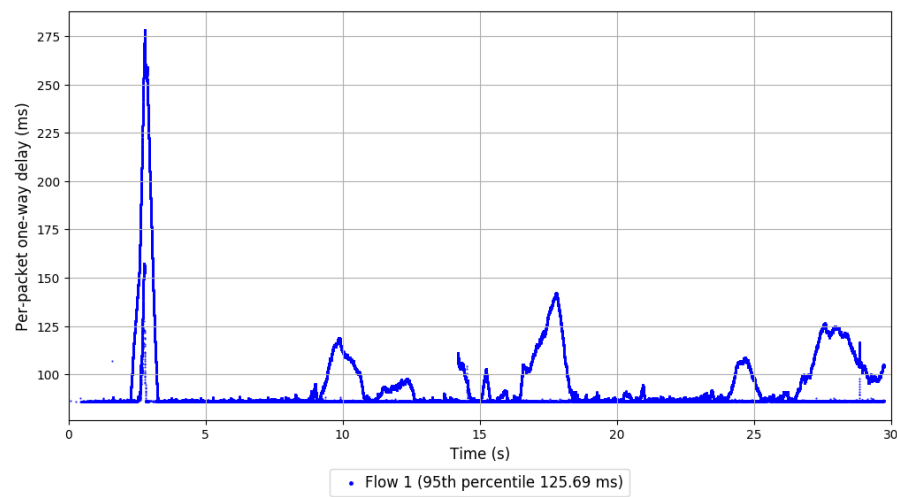
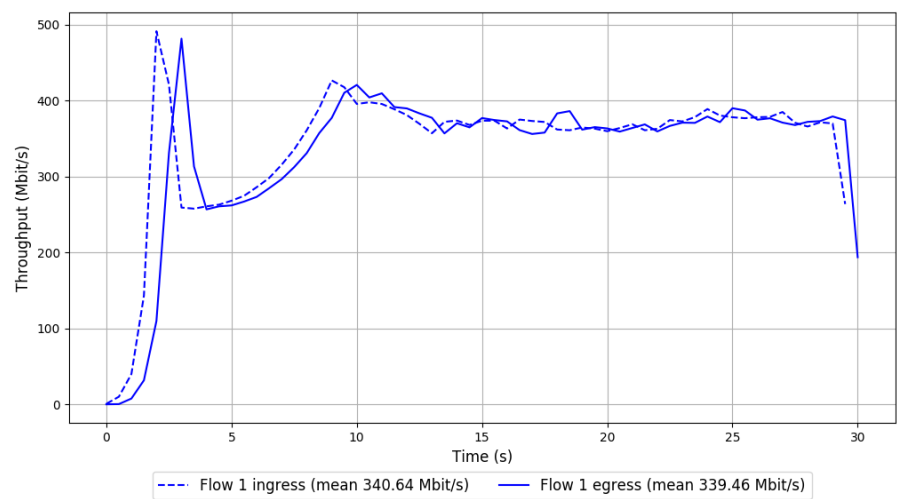
Average throughput: 339.46 Mbit/s

95th percentile per-packet one-way delay: 125.690 ms

Loss rate: 0.93%



Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-05-22 10:02:02

End at: 2018-05-22 10:02:32

Local clock offset: 0.11 ms

Remote clock offset: -0.151 ms

# Below is generated by plot.py at 2018-05-22 12:11:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 353.10 Mbit/s

95th percentile per-packet one-way delay: 211.860 ms

Loss rate: 0.86%

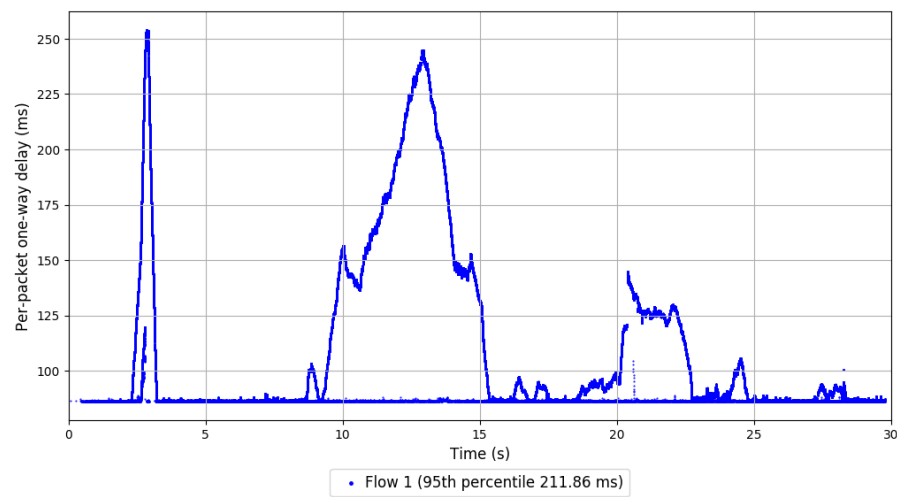
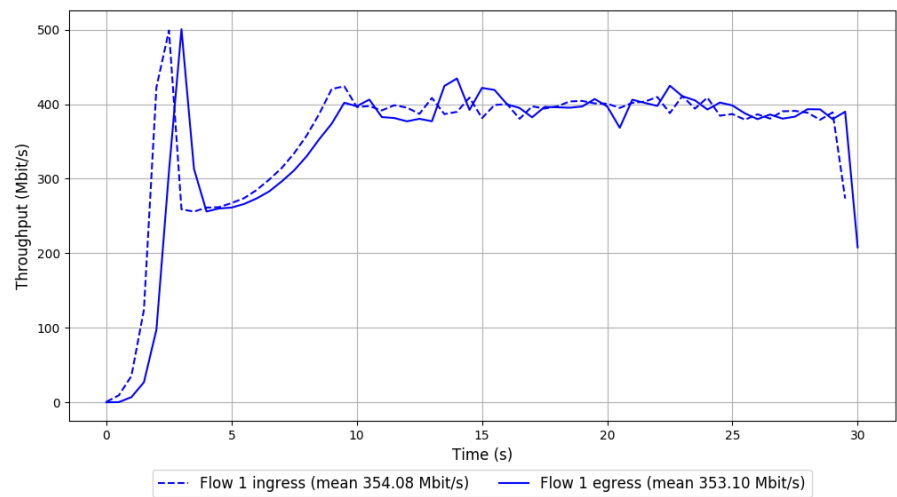
-- Flow 1:

Average throughput: 353.10 Mbit/s

95th percentile per-packet one-way delay: 211.860 ms

Loss rate: 0.86%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-05-22 10:22:18

End at: 2018-05-22 10:22:48

Local clock offset: 0.186 ms

Remote clock offset: -0.137 ms

# Below is generated by plot.py at 2018-05-22 12:11:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 315.99 Mbit/s

95th percentile per-packet one-way delay: 102.765 ms

Loss rate: 0.93%

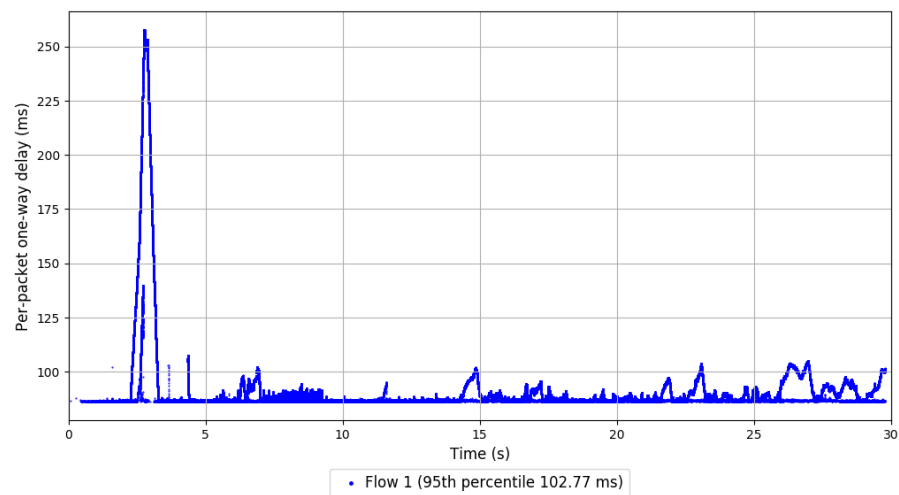
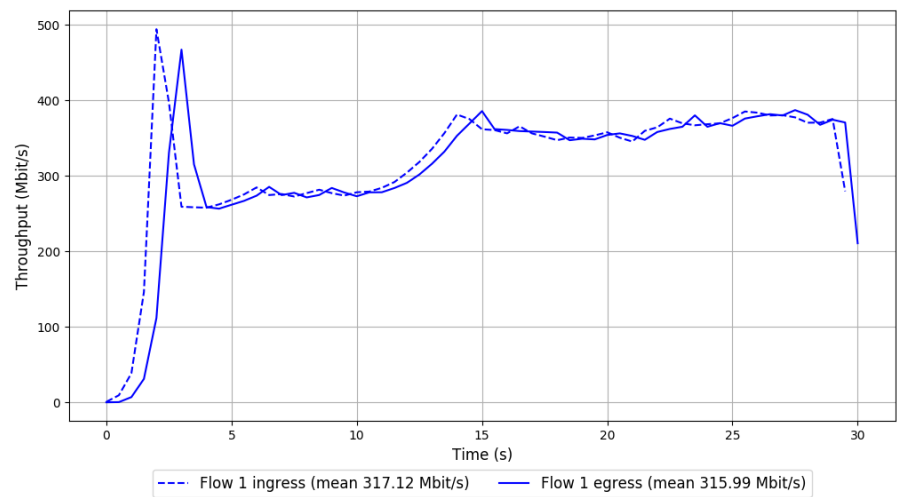
-- Flow 1:

Average throughput: 315.99 Mbit/s

95th percentile per-packet one-way delay: 102.765 ms

Loss rate: 0.93%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-05-22 10:42:14

End at: 2018-05-22 10:42:44

Local clock offset: 0.173 ms

Remote clock offset: -0.194 ms

# Below is generated by plot.py at 2018-05-22 12:12:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 337.04 Mbit/s

95th percentile per-packet one-way delay: 98.609 ms

Loss rate: 0.75%

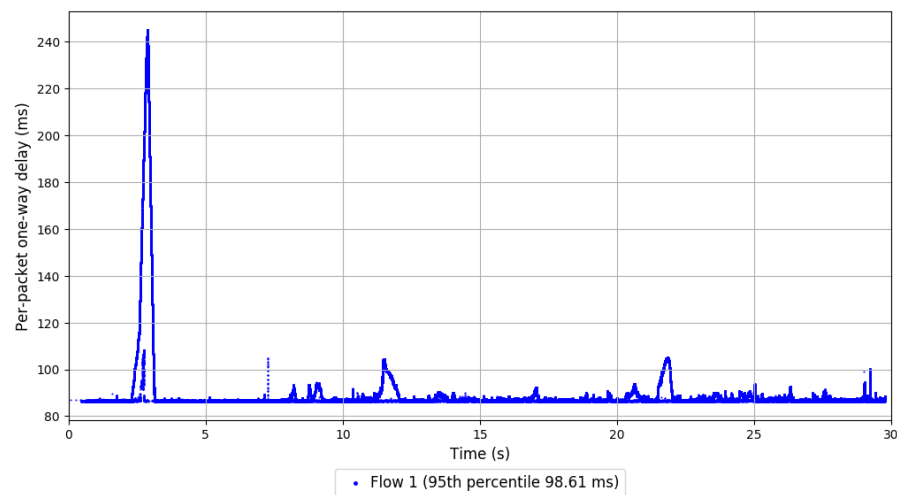
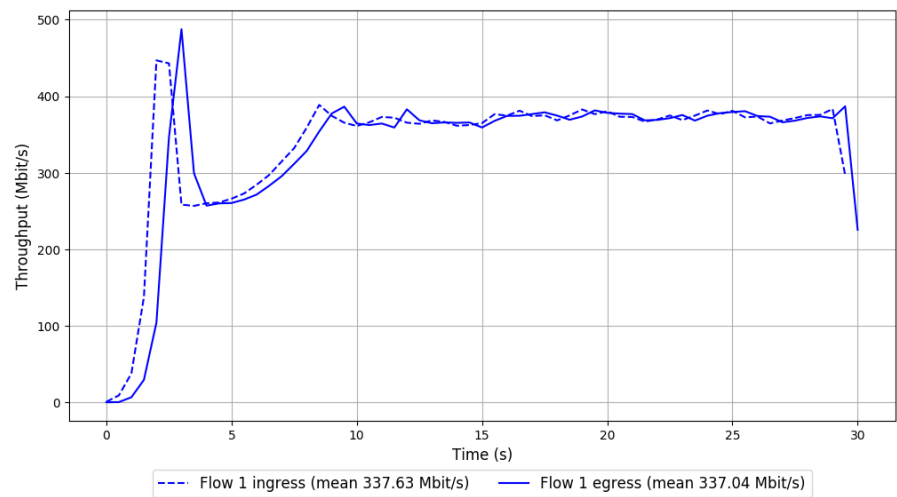
-- Flow 1:

Average throughput: 337.04 Mbit/s

95th percentile per-packet one-way delay: 98.609 ms

Loss rate: 0.75%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-05-22 11:02:34

End at: 2018-05-22 11:03:04

Local clock offset: 0.382 ms

Remote clock offset: -0.116 ms

# Below is generated by plot.py at 2018-05-22 12:16:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 352.12 Mbit/s

95th percentile per-packet one-way delay: 161.998 ms

Loss rate: 0.94%

-- Flow 1:

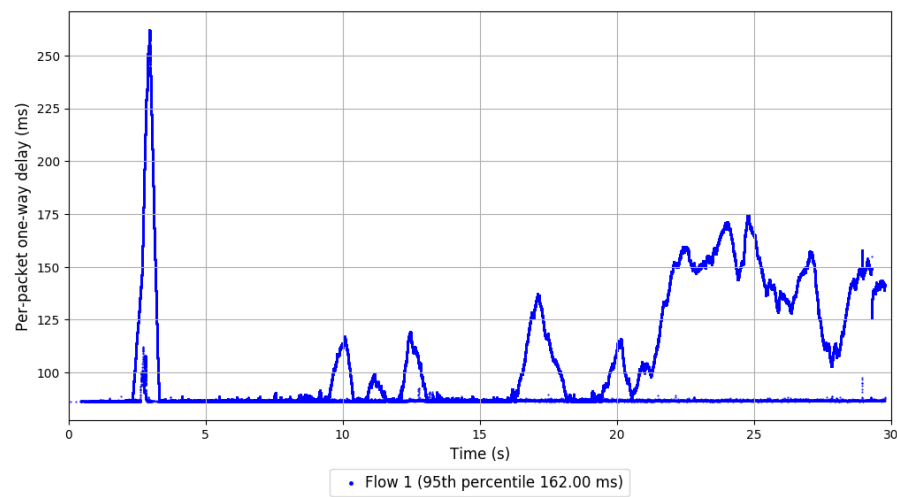
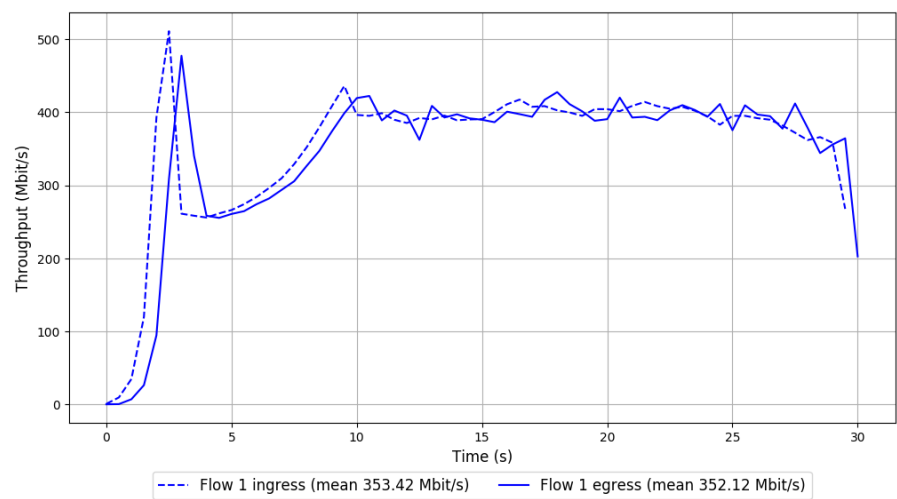
Average throughput: 352.12 Mbit/s

95th percentile per-packet one-way delay: 161.998 ms

Loss rate: 0.94%



Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-05-22 11:22:48

End at: 2018-05-22 11:23:18

Local clock offset: 0.055 ms

Remote clock offset: 0.257 ms

# Below is generated by plot.py at 2018-05-22 12:16:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 323.48 Mbit/s

95th percentile per-packet one-way delay: 120.922 ms

Loss rate: 1.00%

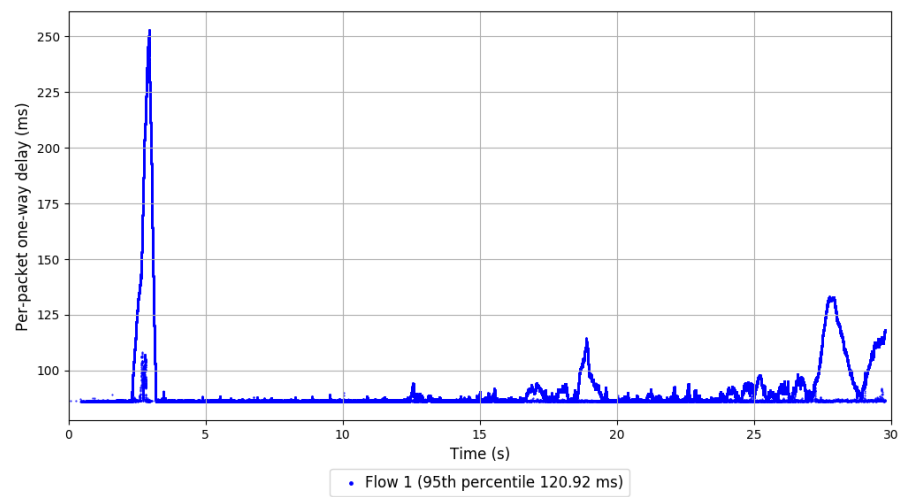
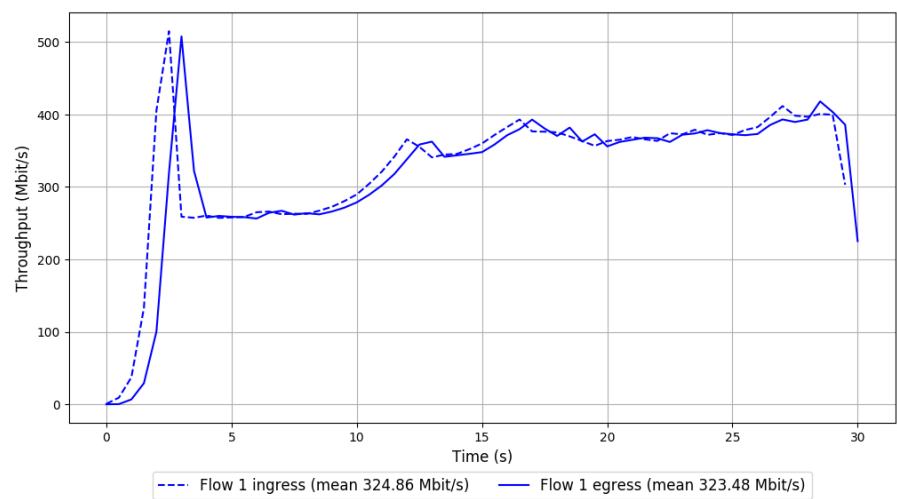
-- Flow 1:

Average throughput: 323.48 Mbit/s

95th percentile per-packet one-way delay: 120.922 ms

Loss rate: 1.00%

Run 10: Report of PCC-Allegro — Data Link

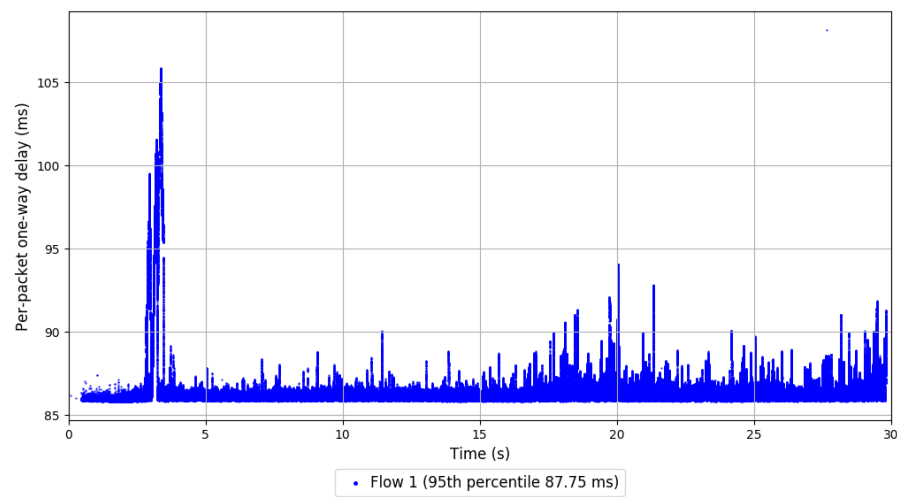
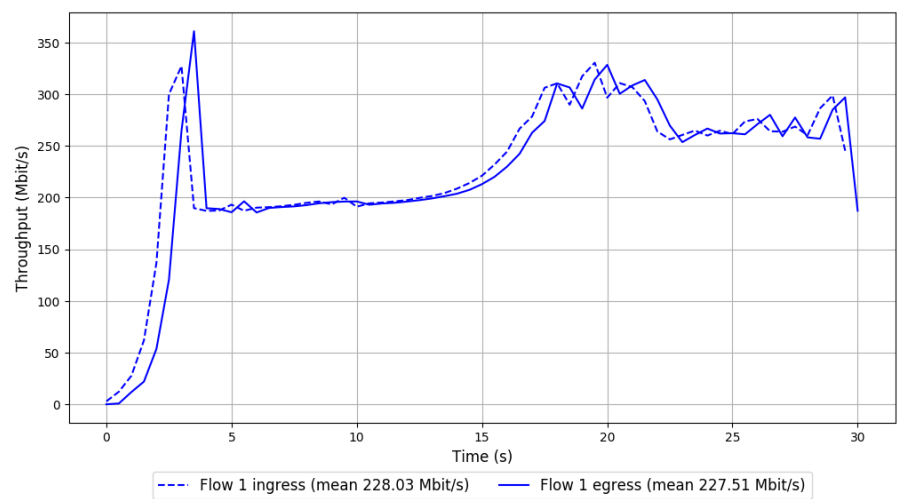


Run 1: Statistics of PCC-Expr

Start at: 2018-05-22 08:18:22  
End at: 2018-05-22 08:18:52  
Local clock offset: -0.015 ms  
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2018-05-22 12:18:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 227.51 Mbit/s  
95th percentile per-packet one-way delay: 87.753 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 227.51 Mbit/s  
95th percentile per-packet one-way delay: 87.753 ms  
Loss rate: 0.81%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-05-22 08:38:23

End at: 2018-05-22 08:38:53

Local clock offset: 0.406 ms

Remote clock offset: 0.012 ms

# Below is generated by plot.py at 2018-05-22 12:18:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 200.75 Mbit/s

95th percentile per-packet one-way delay: 87.440 ms

Loss rate: 0.79%

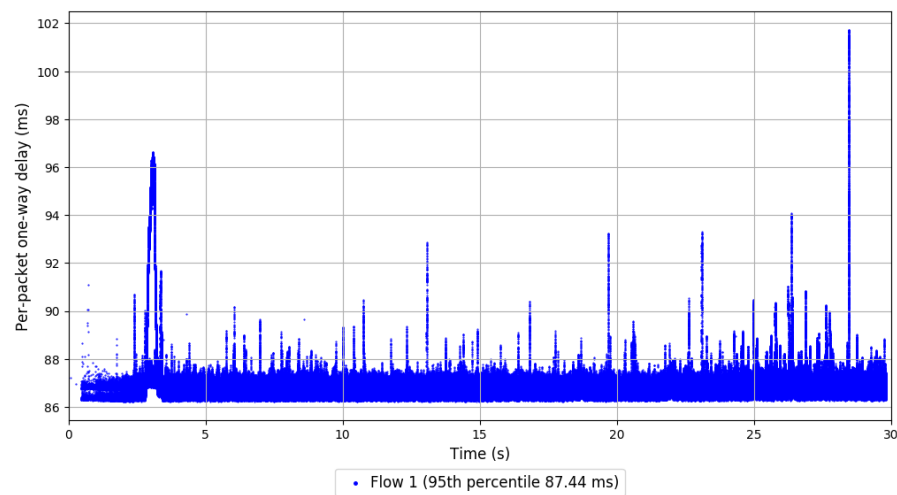
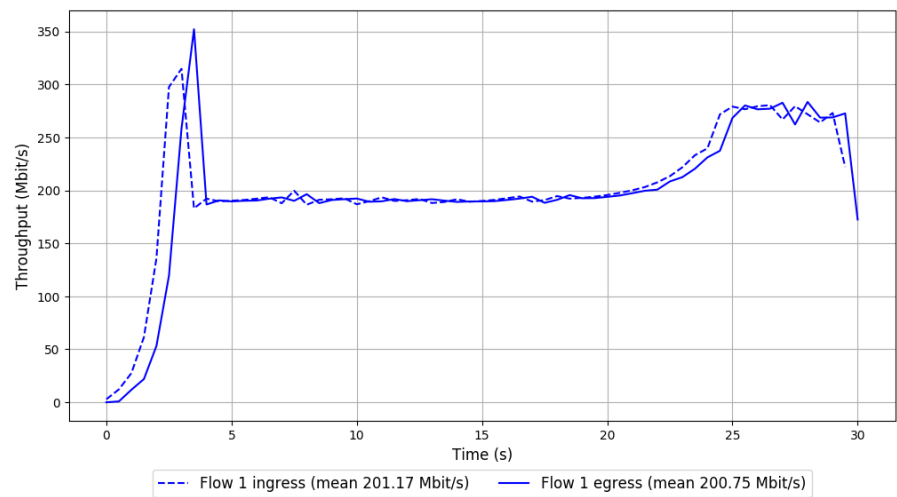
-- Flow 1:

Average throughput: 200.75 Mbit/s

95th percentile per-packet one-way delay: 87.440 ms

Loss rate: 0.79%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-05-22 08:58:38

End at: 2018-05-22 08:59:08

Local clock offset: 0.218 ms

Remote clock offset: 0.064 ms

# Below is generated by plot.py at 2018-05-22 12:19:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 284.09 Mbit/s

95th percentile per-packet one-way delay: 106.707 ms

Loss rate: 0.47%

-- Flow 1:

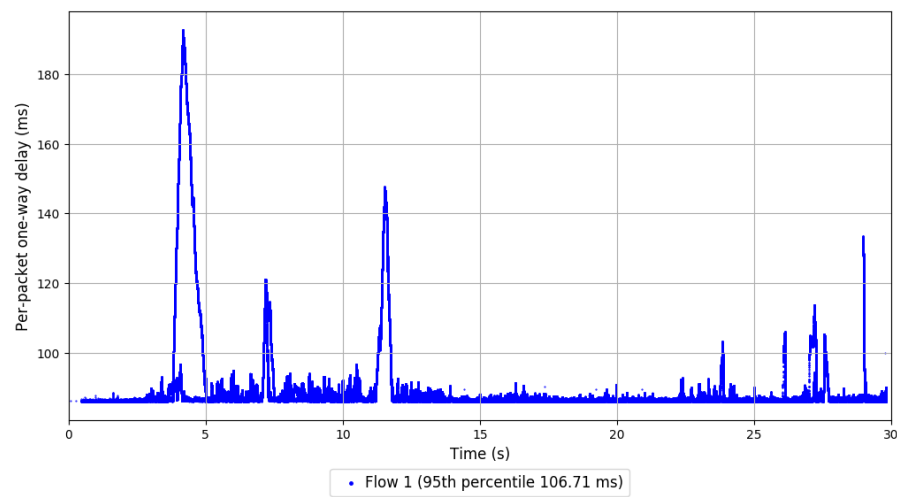
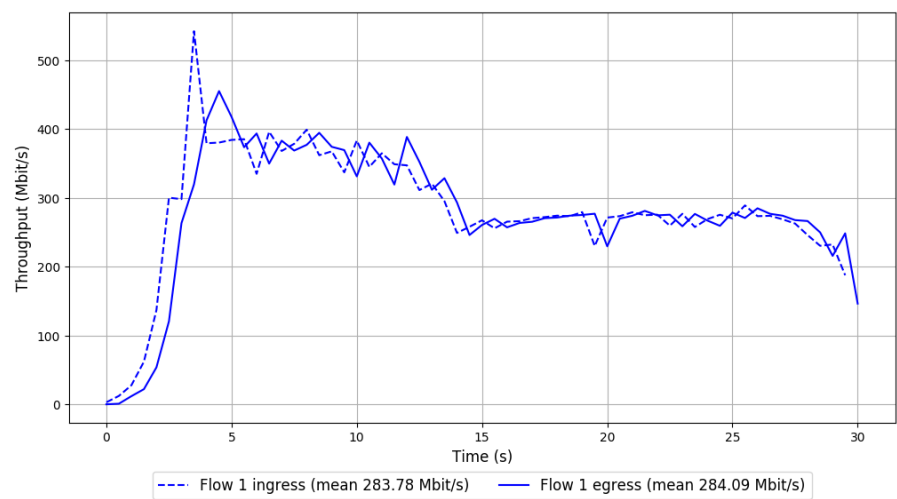
Average throughput: 284.09 Mbit/s

95th percentile per-packet one-way delay: 106.707 ms

Loss rate: 0.47%



Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-05-22 09:19:03

End at: 2018-05-22 09:19:33

Local clock offset: -0.133 ms

Remote clock offset: 0.089 ms

# Below is generated by plot.py at 2018-05-22 12:19:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 235.88 Mbit/s

95th percentile per-packet one-way delay: 87.058 ms

Loss rate: 0.54%

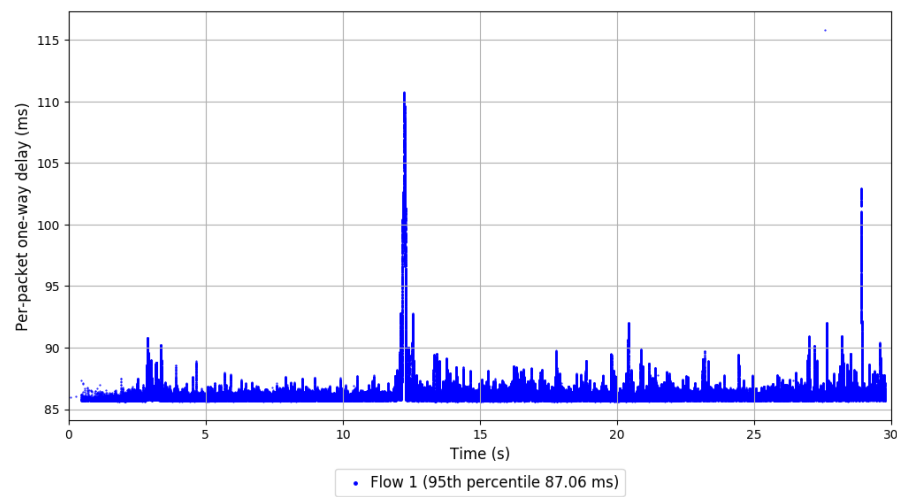
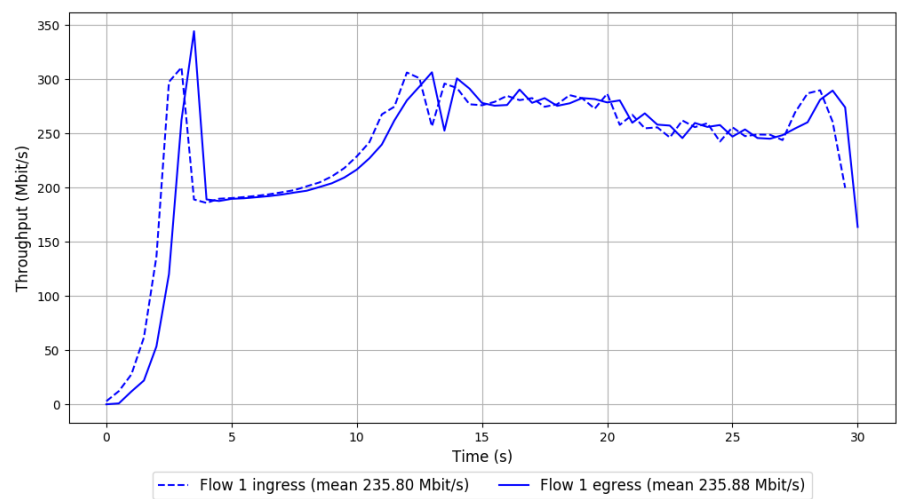
-- Flow 1:

Average throughput: 235.88 Mbit/s

95th percentile per-packet one-way delay: 87.058 ms

Loss rate: 0.54%

Run 4: Report of PCC-Expr — Data Link

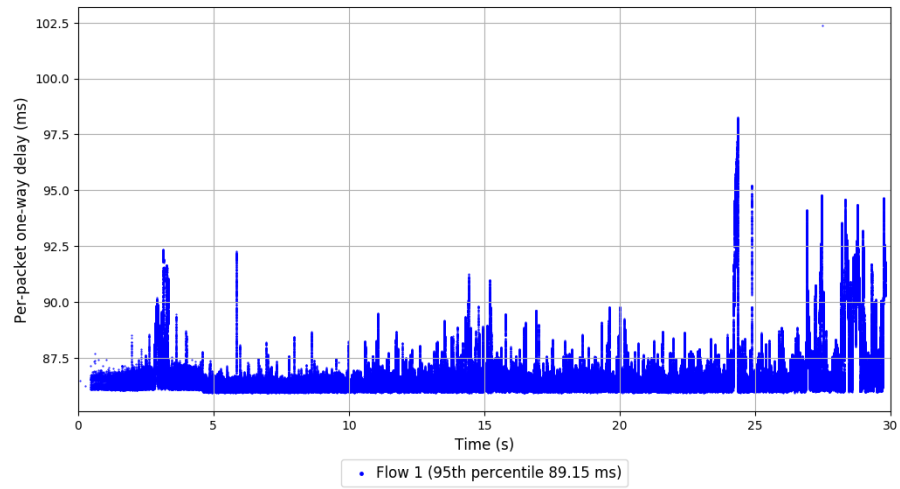
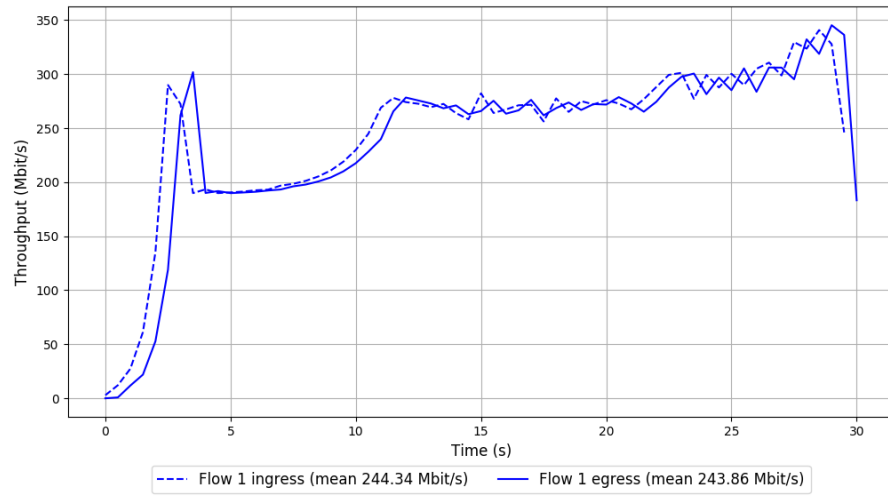


Run 5: Statistics of PCC-Expr

Start at: 2018-05-22 09:39:21  
End at: 2018-05-22 09:39:51  
Local clock offset: 0.147 ms  
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2018-05-22 12:19:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 243.86 Mbit/s  
95th percentile per-packet one-way delay: 89.154 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 243.86 Mbit/s  
95th percentile per-packet one-way delay: 89.154 ms  
Loss rate: 0.77%

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

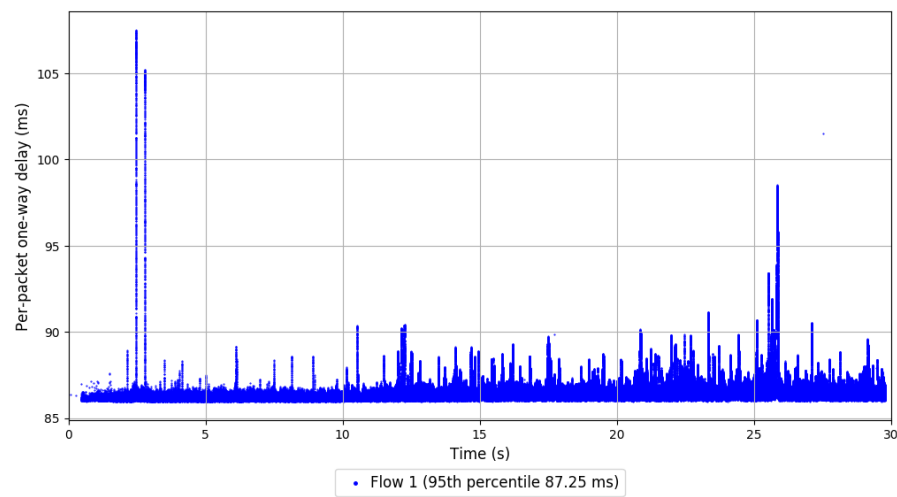
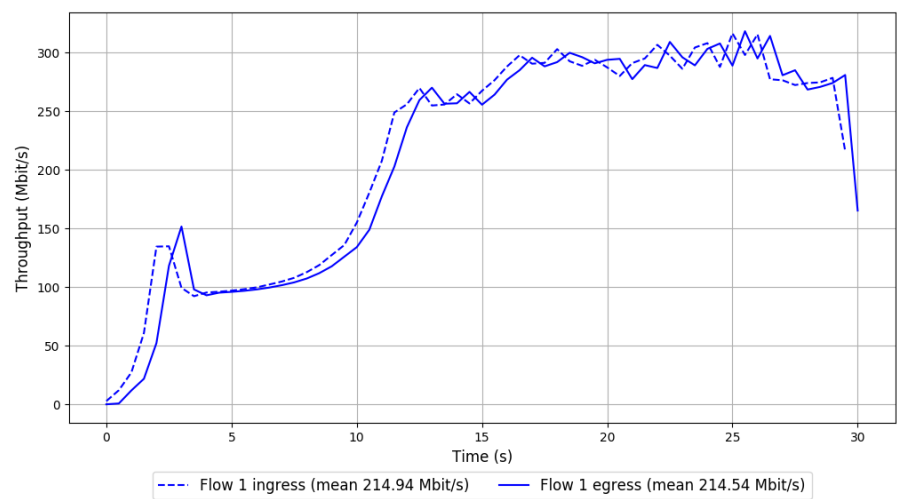


Run 6: Statistics of PCC-Expr

Start at: 2018-05-22 09:59:20  
End at: 2018-05-22 09:59:50  
Local clock offset: 0.129 ms  
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2018-05-22 12:19:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 214.54 Mbit/s  
95th percentile per-packet one-way delay: 87.255 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 214.54 Mbit/s  
95th percentile per-packet one-way delay: 87.255 ms  
Loss rate: 0.77%

Run 6: Report of PCC-Expr — Data Link



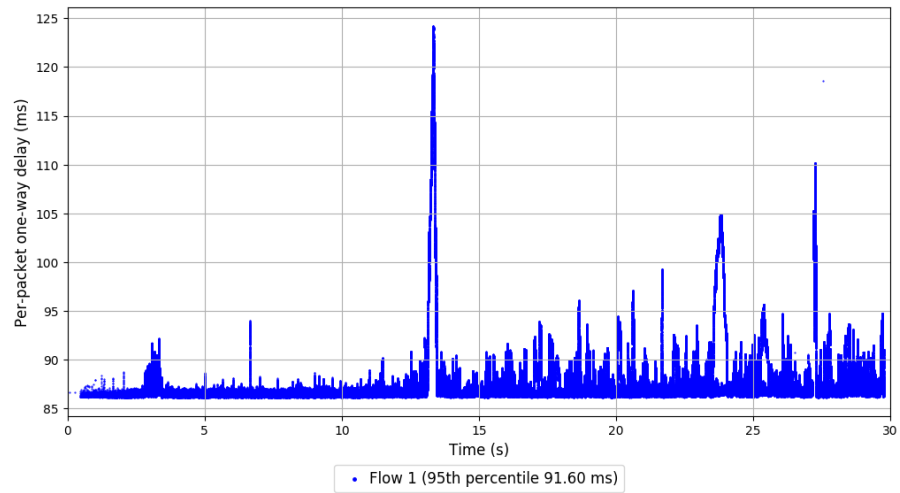
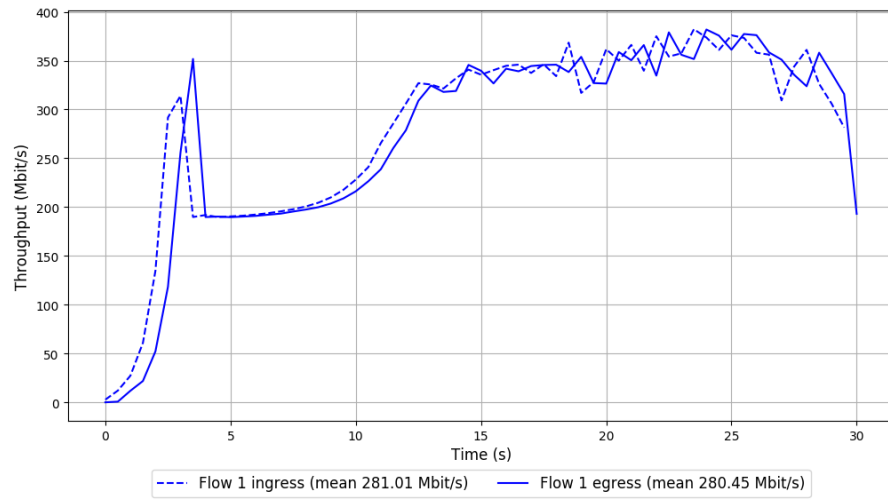
Run 7: Statistics of PCC-Expr

Start at: 2018-05-22 10:19:32  
End at: 2018-05-22 10:20:02  
Local clock offset: 0.213 ms  
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2018-05-22 12:25:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 280.45 Mbit/s  
95th percentile per-packet one-way delay: 91.600 ms  
Loss rate: 0.78%  
-- Flow 1:  
Average throughput: 280.45 Mbit/s  
95th percentile per-packet one-way delay: 91.600 ms  
Loss rate: 0.78%



## Run 7: Report of PCC-Expr — Data Link

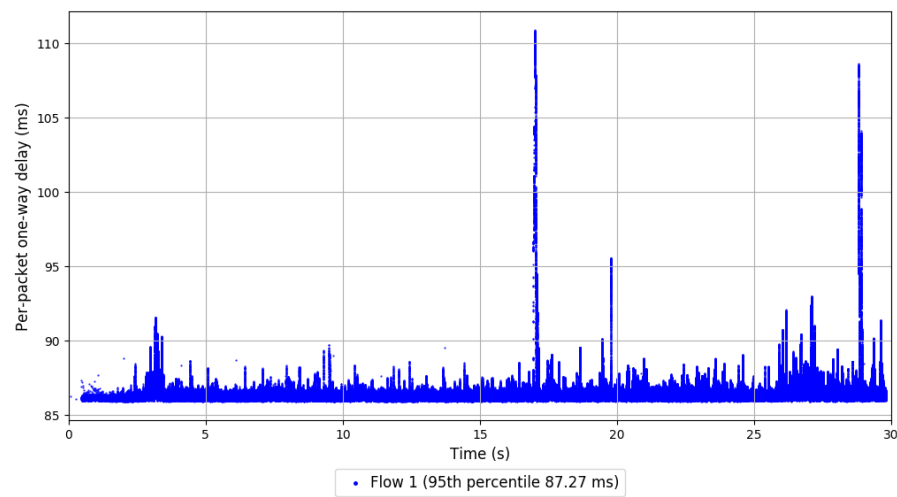
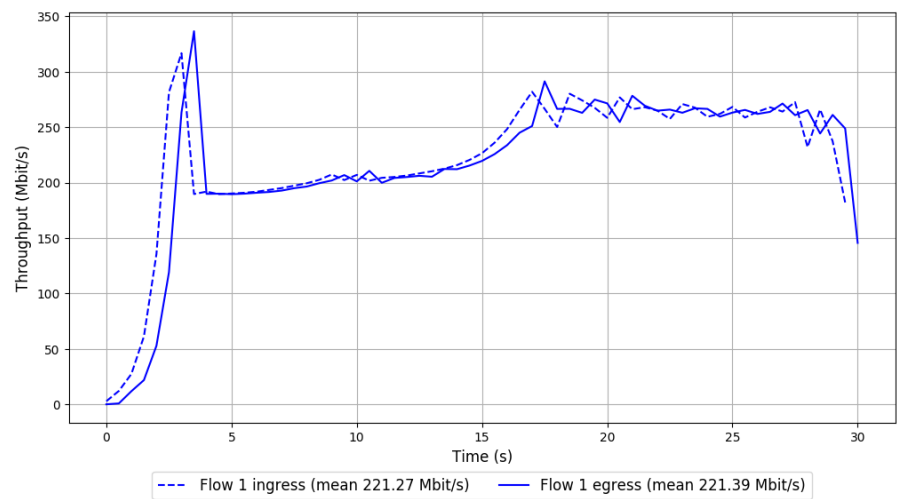


Run 8: Statistics of PCC-Expr

Start at: 2018-05-22 10:39:35  
End at: 2018-05-22 10:40:05  
Local clock offset: -0.037 ms  
Remote clock offset: -0.108 ms

# Below is generated by plot.py at 2018-05-22 12:25:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 221.39 Mbit/s  
95th percentile per-packet one-way delay: 87.266 ms  
Loss rate: 0.53%  
-- Flow 1:  
Average throughput: 221.39 Mbit/s  
95th percentile per-packet one-way delay: 87.266 ms  
Loss rate: 0.53%

Run 8: Report of PCC-Expr — Data Link

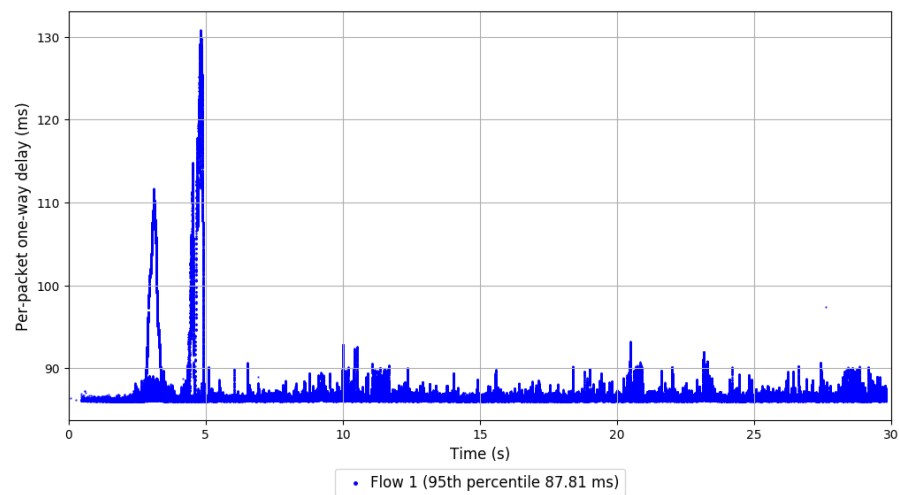
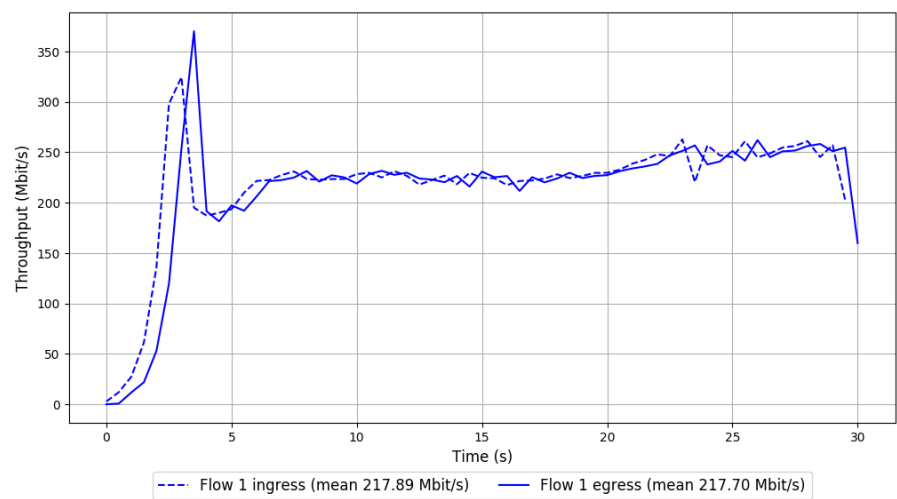


Run 9: Statistics of PCC-Expr

Start at: 2018-05-22 10:59:52  
End at: 2018-05-22 11:00:22  
Local clock offset: 0.114 ms  
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2018-05-22 12:25:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 217.70 Mbit/s  
95th percentile per-packet one-way delay: 87.805 ms  
Loss rate: 0.66%  
-- Flow 1:  
Average throughput: 217.70 Mbit/s  
95th percentile per-packet one-way delay: 87.805 ms  
Loss rate: 0.66%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-05-22 11:20:02

End at: 2018-05-22 11:20:32

Local clock offset: -0.041 ms

Remote clock offset: 0.094 ms

# Below is generated by plot.py at 2018-05-22 12:25:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 233.45 Mbit/s

95th percentile per-packet one-way delay: 87.545 ms

Loss rate: 0.67%

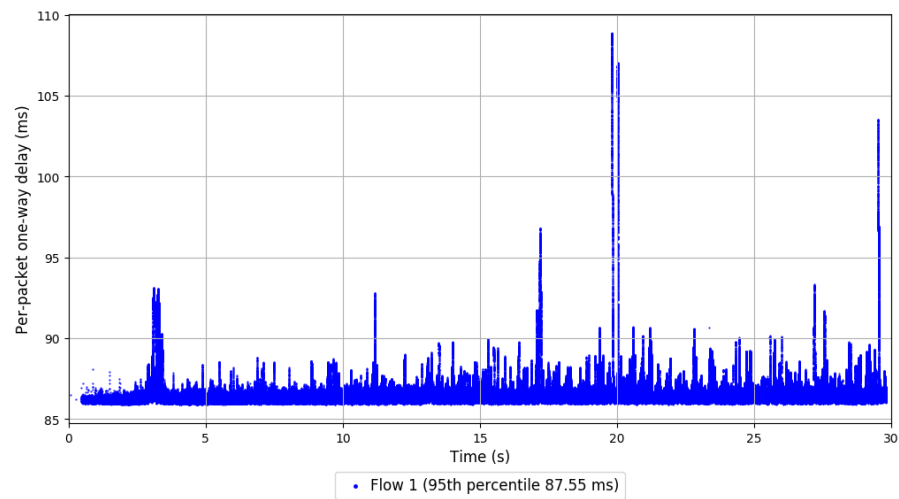
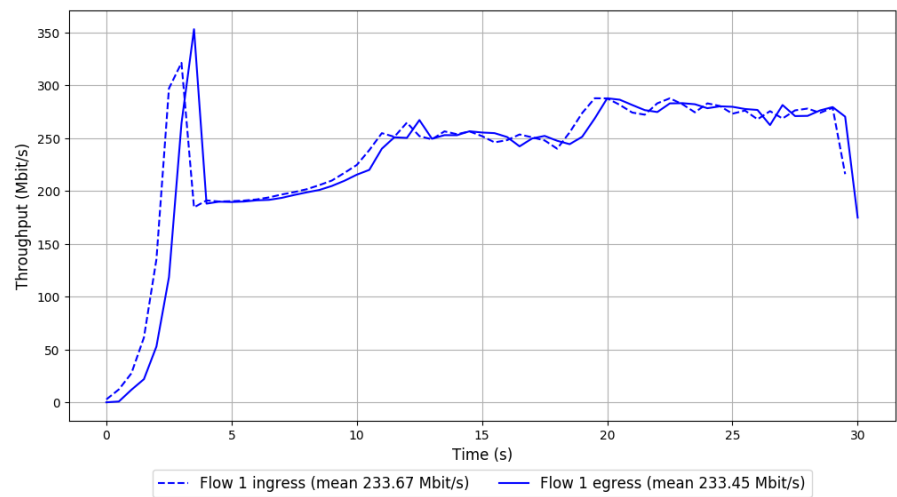
-- Flow 1:

Average throughput: 233.45 Mbit/s

95th percentile per-packet one-way delay: 87.545 ms

Loss rate: 0.67%

Run 10: Report of PCC-Expr — Data Link



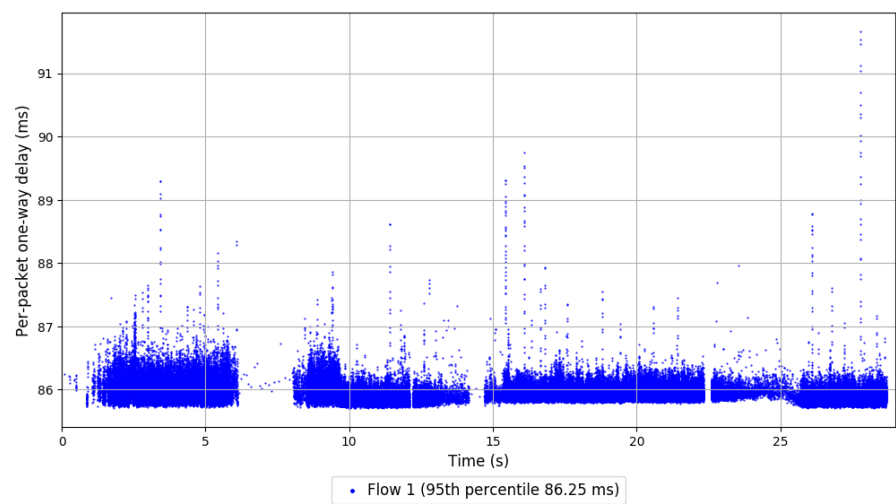
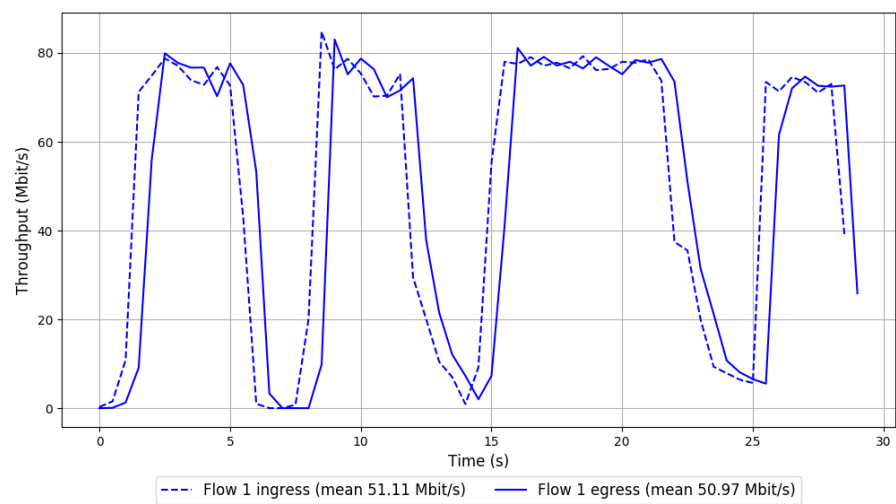
Run 1: Statistics of QUIC Cubic

Start at: 2018-05-22 08:14:59  
End at: 2018-05-22 08:15:29  
Local clock offset: -0.197 ms  
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2018-05-22 12:25:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.97 Mbit/s  
95th percentile per-packet one-way delay: 86.252 ms  
Loss rate: 0.87%  
-- Flow 1:  
Average throughput: 50.97 Mbit/s  
95th percentile per-packet one-way delay: 86.252 ms  
Loss rate: 0.87%



Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-05-22 08:35:00

End at: 2018-05-22 08:35:30

Local clock offset: -0.157 ms

Remote clock offset: -0.006 ms

# Below is generated by plot.py at 2018-05-22 12:25:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 49.07 Mbit/s

95th percentile per-packet one-way delay: 86.529 ms

Loss rate: 0.94%

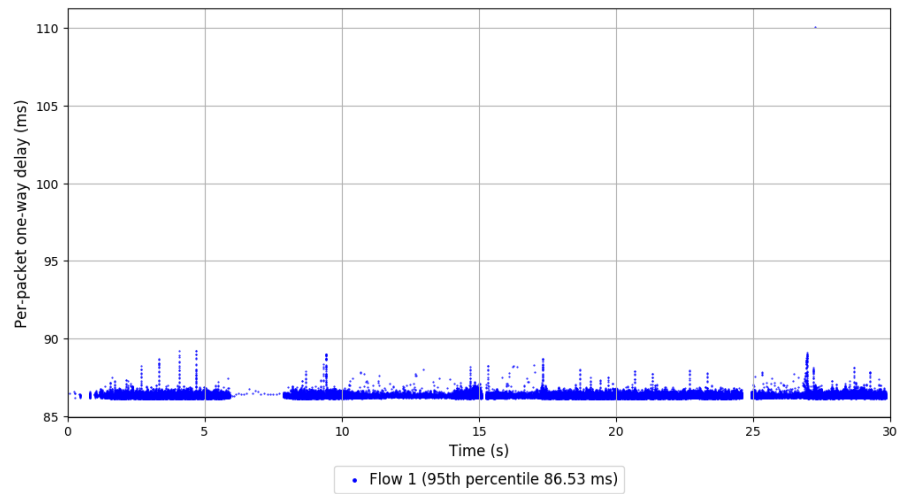
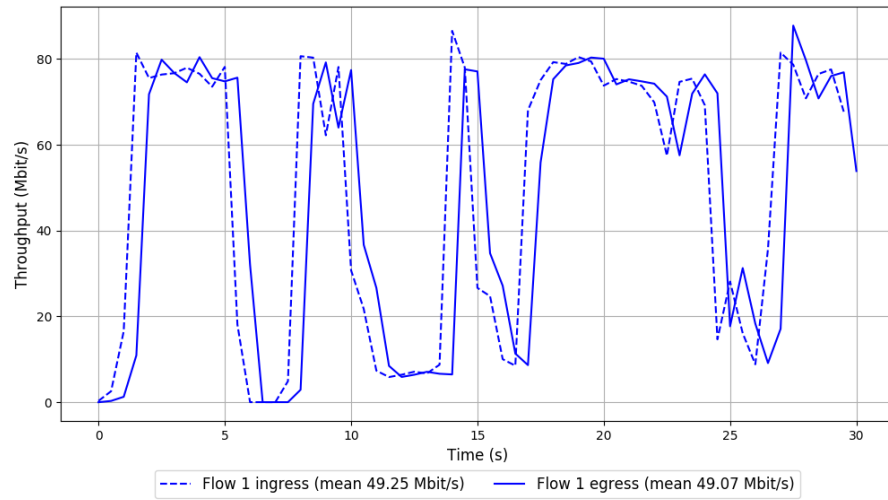
-- Flow 1:

Average throughput: 49.07 Mbit/s

95th percentile per-packet one-way delay: 86.529 ms

Loss rate: 0.94%

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



Run 3: Statistics of QUIC Cubic

Start at: 2018-05-22 08:55:15

End at: 2018-05-22 08:55:45

Local clock offset: 0.227 ms

Remote clock offset: 0.121 ms

# Below is generated by plot.py at 2018-05-22 12:25:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 53.88 Mbit/s

95th percentile per-packet one-way delay: 86.336 ms

Loss rate: 0.86%

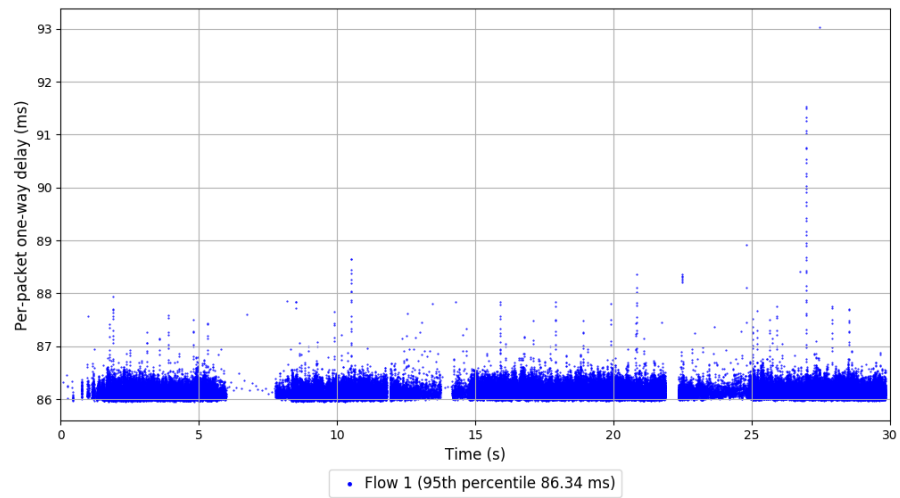
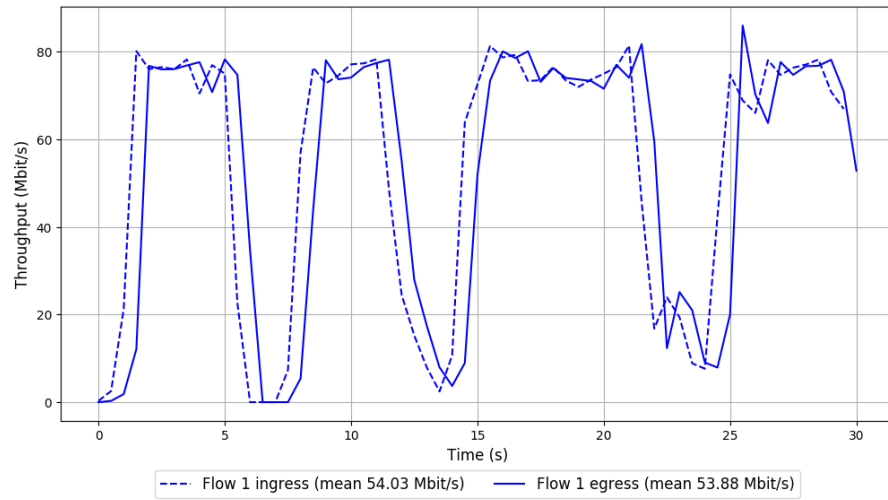
-- Flow 1:

Average throughput: 53.88 Mbit/s

95th percentile per-packet one-way delay: 86.336 ms

Loss rate: 0.86%

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



Run 4: Statistics of QUIC Cubic

Start at: 2018-05-22 09:15:40

End at: 2018-05-22 09:16:10

Local clock offset: 0.385 ms

Remote clock offset: 0.07 ms

# Below is generated by plot.py at 2018-05-22 12:25:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 57.98 Mbit/s

95th percentile per-packet one-way delay: 86.880 ms

Loss rate: 0.80%

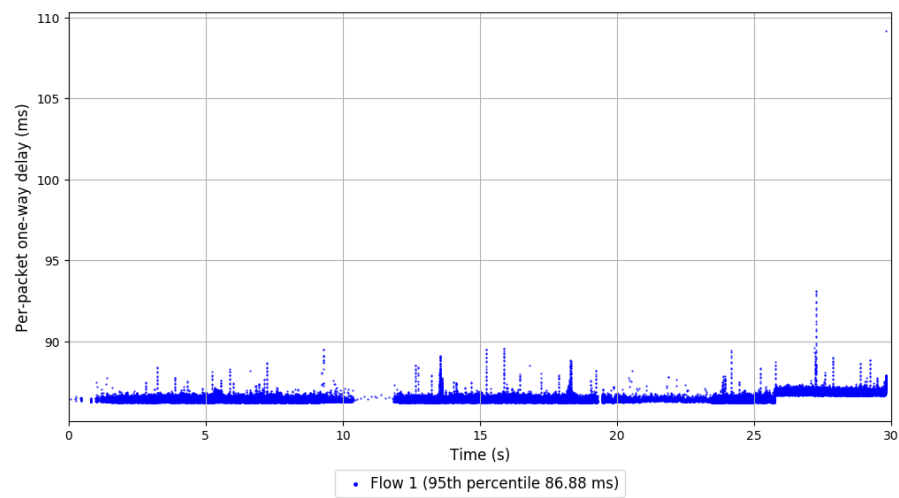
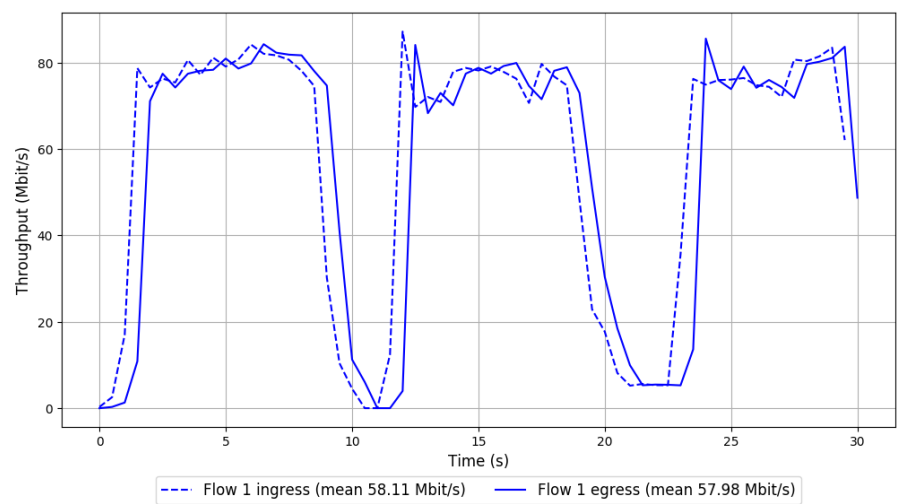
-- Flow 1:

Average throughput: 57.98 Mbit/s

95th percentile per-packet one-way delay: 86.880 ms

Loss rate: 0.80%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-05-22 09:35:58

End at: 2018-05-22 09:36:28

Local clock offset: -0.013 ms

Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2018-05-22 12:25:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.99 Mbit/s

95th percentile per-packet one-way delay: 86.236 ms

Loss rate: 0.79%

-- Flow 1:

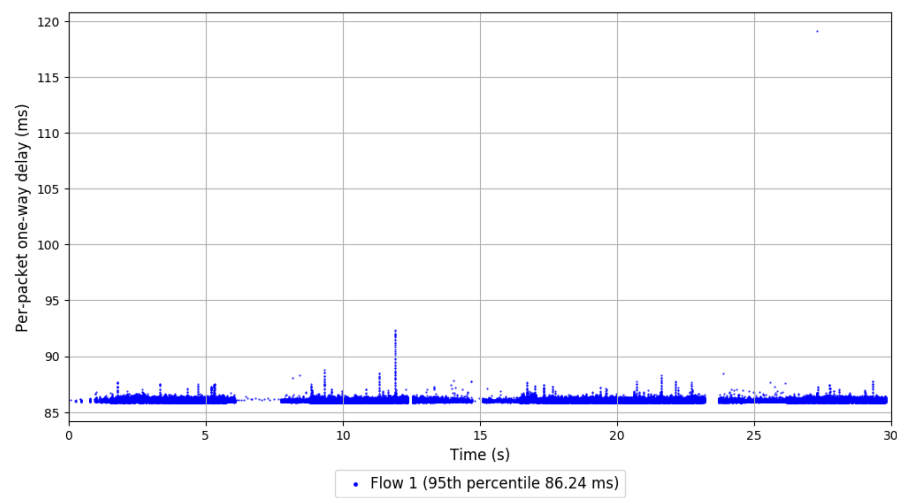
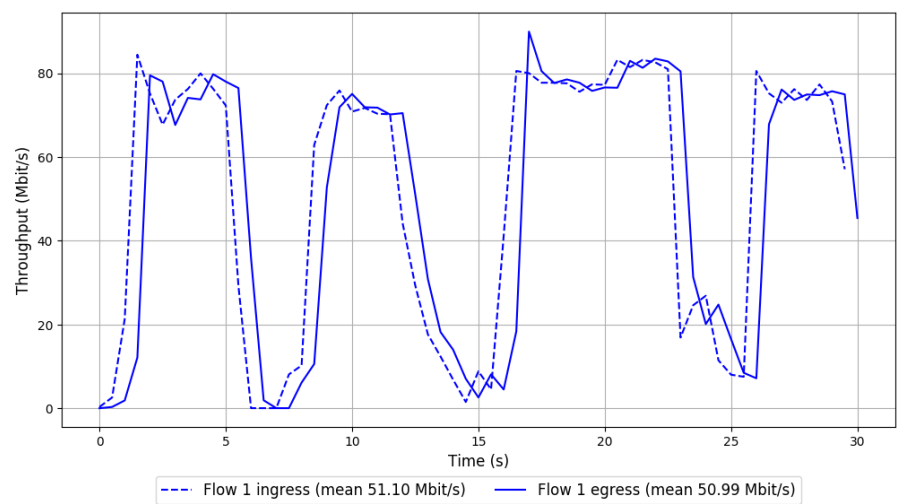
Average throughput: 50.99 Mbit/s

95th percentile per-packet one-way delay: 86.236 ms

Loss rate: 0.79%



Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-05-22 09:55:57

End at: 2018-05-22 09:56:27

Local clock offset: 0.157 ms

Remote clock offset: -0.129 ms

# Below is generated by plot.py at 2018-05-22 12:25:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 51.56 Mbit/s

95th percentile per-packet one-way delay: 86.506 ms

Loss rate: 0.75%

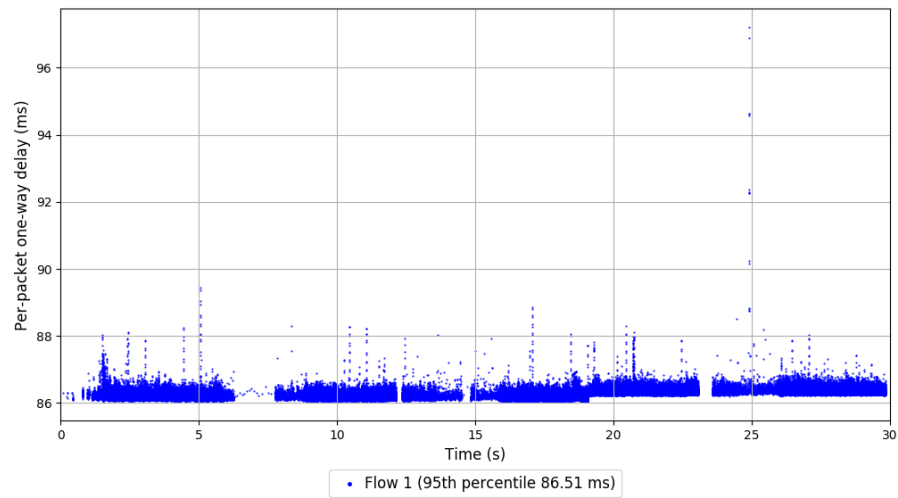
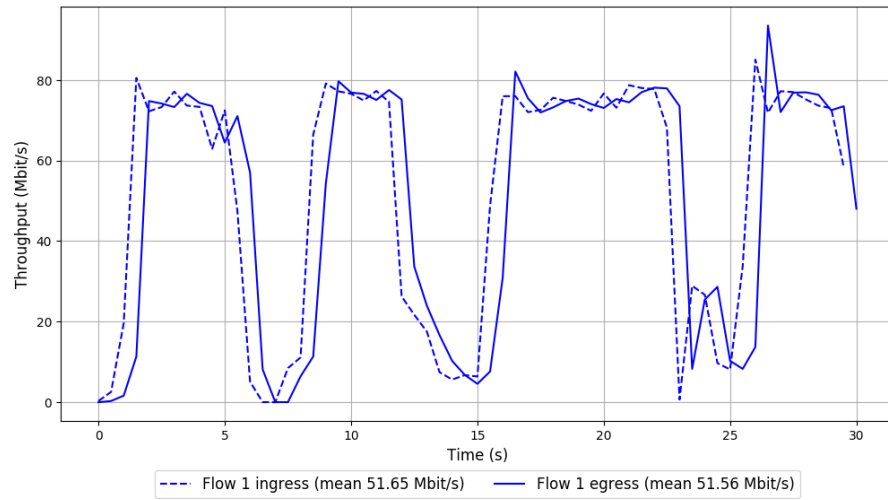
-- Flow 1:

Average throughput: 51.56 Mbit/s

95th percentile per-packet one-way delay: 86.506 ms

Loss rate: 0.75%

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

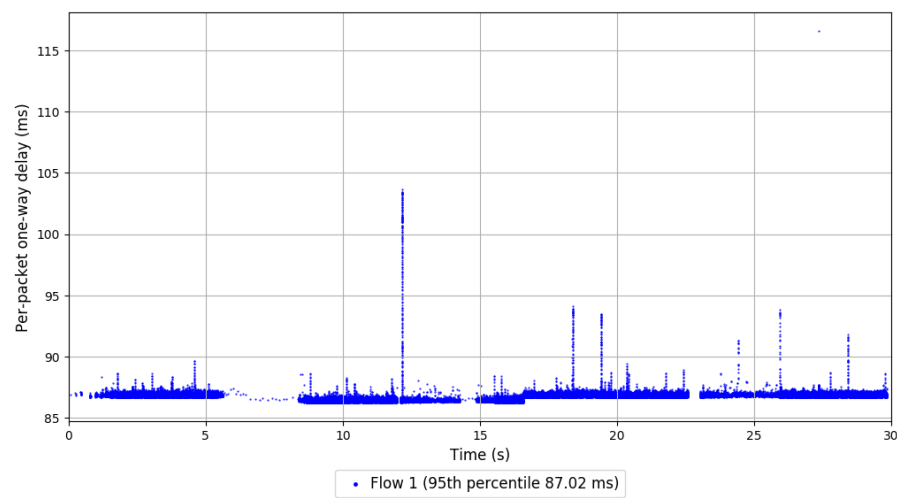
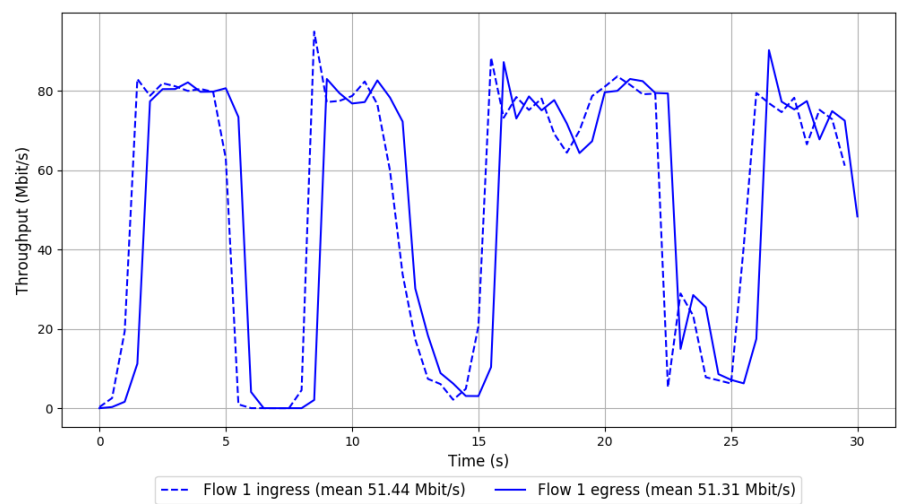


Run 7: Statistics of QUIC Cubic

Start at: 2018-05-22 10:16:09  
End at: 2018-05-22 10:16:39  
Local clock offset: 0.246 ms  
Remote clock offset: -0.146 ms

# Below is generated by plot.py at 2018-05-22 12:25:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 51.31 Mbit/s  
95th percentile per-packet one-way delay: 87.024 ms  
Loss rate: 0.83%  
-- Flow 1:  
Average throughput: 51.31 Mbit/s  
95th percentile per-packet one-way delay: 87.024 ms  
Loss rate: 0.83%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-05-22 10:36:12

End at: 2018-05-22 10:36:42

Local clock offset: 0.006 ms

Remote clock offset: -0.132 ms

# Below is generated by plot.py at 2018-05-22 12:25:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 49.86 Mbit/s

95th percentile per-packet one-way delay: 86.662 ms

Loss rate: 0.86%

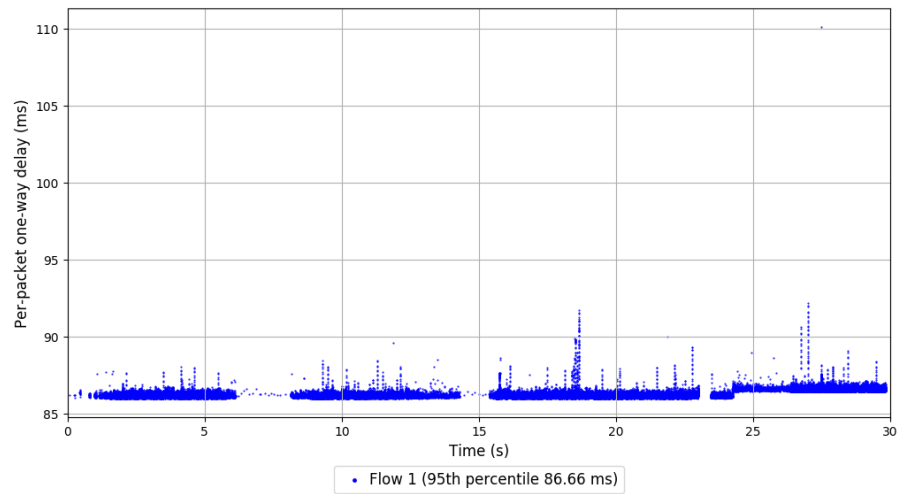
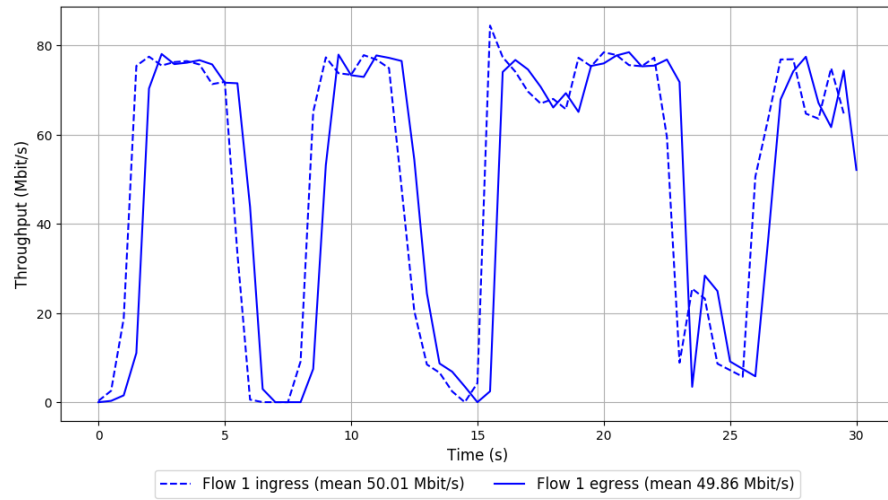
-- Flow 1:

Average throughput: 49.86 Mbit/s

95th percentile per-packet one-way delay: 86.662 ms

Loss rate: 0.86%

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



Run 9: Statistics of QUIC Cubic

Start at: 2018-05-22 10:56:29

End at: 2018-05-22 10:56:59

Local clock offset: 0.011 ms

Remote clock offset: -0.18 ms

# Below is generated by plot.py at 2018-05-22 12:25:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 54.89 Mbit/s

95th percentile per-packet one-way delay: 86.408 ms

Loss rate: 0.82%

-- Flow 1:

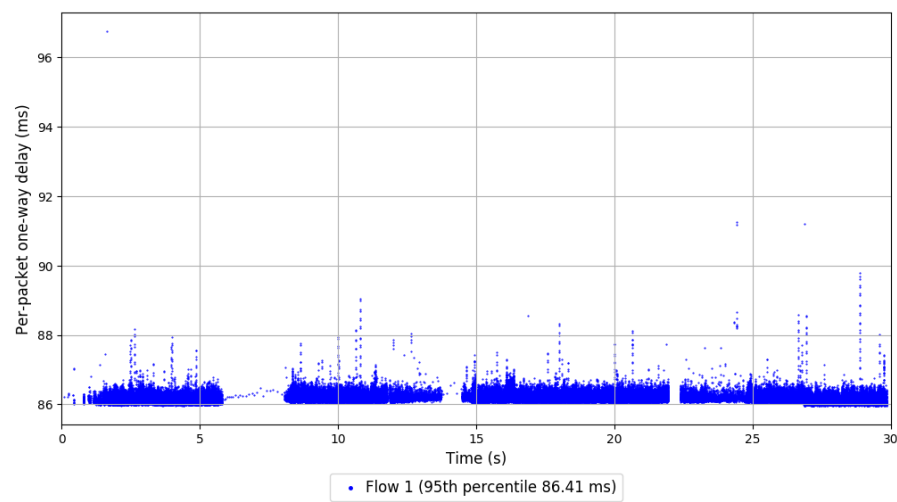
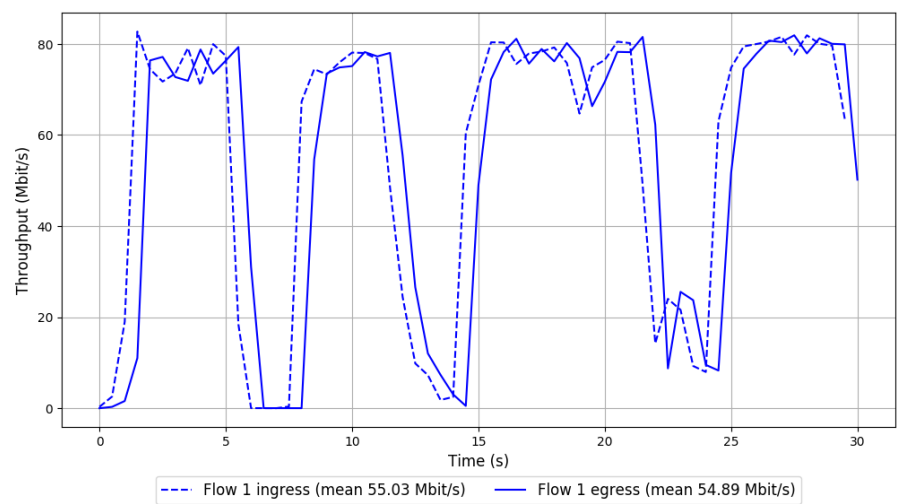
Average throughput: 54.89 Mbit/s

95th percentile per-packet one-way delay: 86.408 ms

Loss rate: 0.82%



Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-05-22 11:16:39

End at: 2018-05-22 11:17:09

Local clock offset: 0.044 ms

Remote clock offset: 0.135 ms

# Below is generated by plot.py at 2018-05-22 12:25:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 51.51 Mbit/s

95th percentile per-packet one-way delay: 86.822 ms

Loss rate: 0.77%

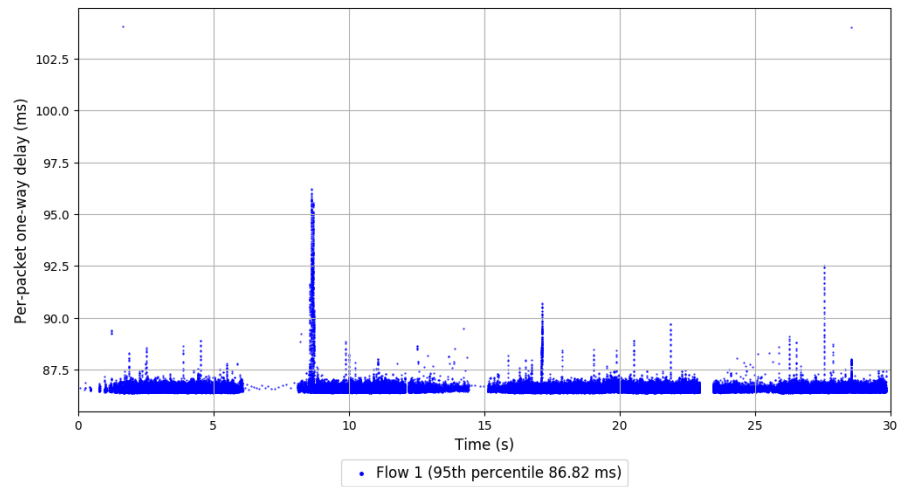
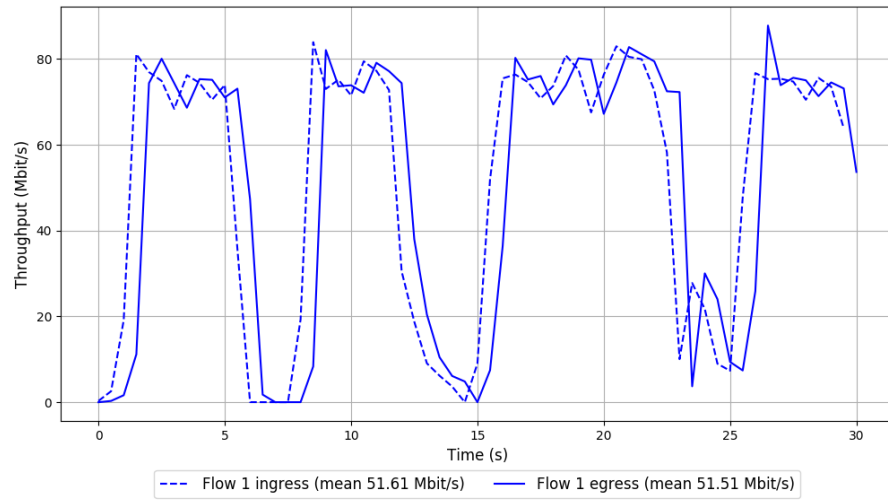
-- Flow 1:

Average throughput: 51.51 Mbit/s

95th percentile per-packet one-way delay: 86.822 ms

Loss rate: 0.77%

# Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2018-05-22 08:17:15

End at: 2018-05-22 08:17:45

Local clock offset: -0.096 ms

Remote clock offset: 0.023 ms

# Below is generated by plot.py at 2018-05-22 12:25:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.514 ms

Loss rate: 0.64%

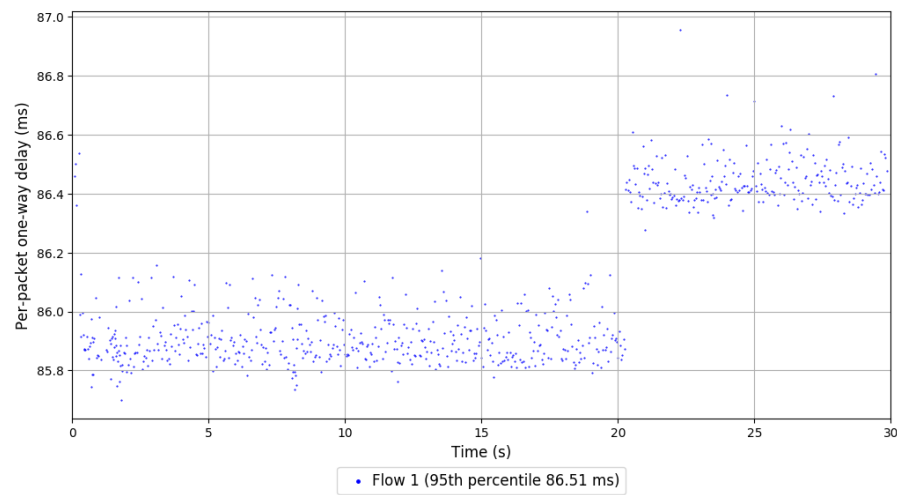
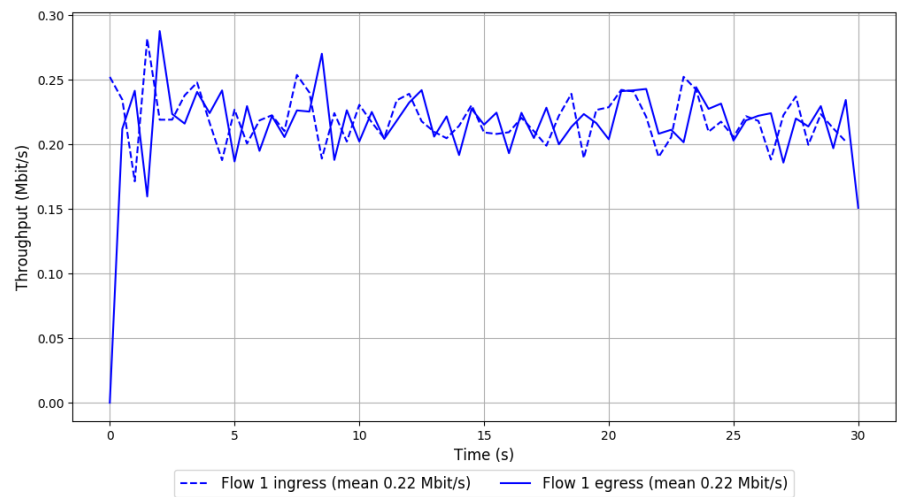
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.514 ms

Loss rate: 0.64%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-05-22 08:37:16

End at: 2018-05-22 08:37:47

Local clock offset: 0.263 ms

Remote clock offset: 0.035 ms

# Below is generated by plot.py at 2018-05-22 12:25:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.784 ms

Loss rate: 0.64%

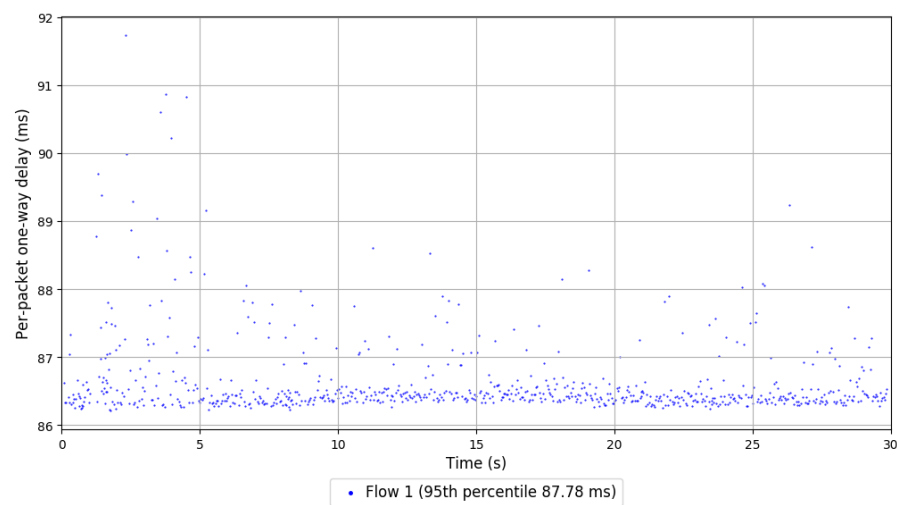
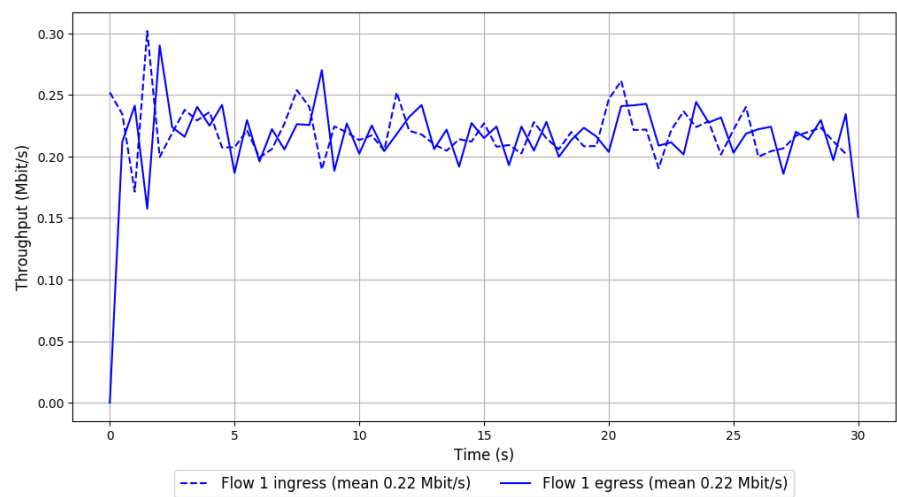
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.784 ms

Loss rate: 0.64%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-05-22 08:57:31

End at: 2018-05-22 08:58:01

Local clock offset: 0.326 ms

Remote clock offset: 0.08 ms

# Below is generated by plot.py at 2018-05-22 12:25:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.672 ms

Loss rate: 0.51%

-- Flow 1:

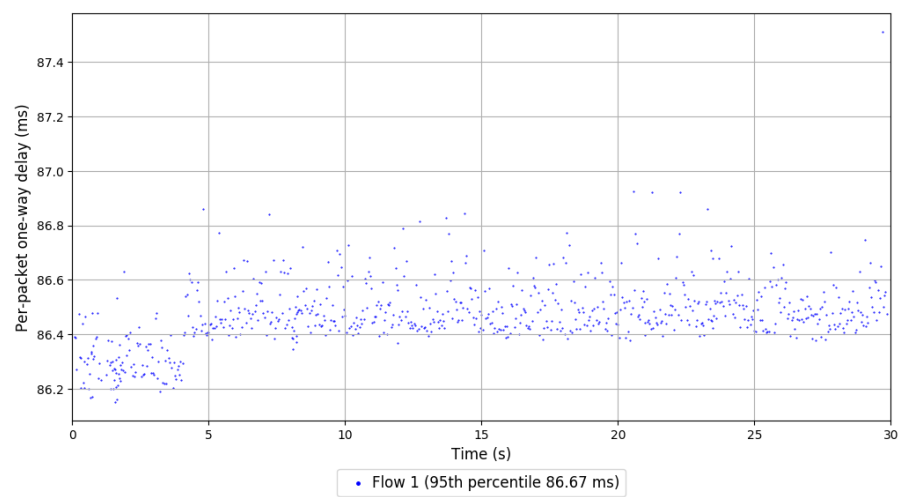
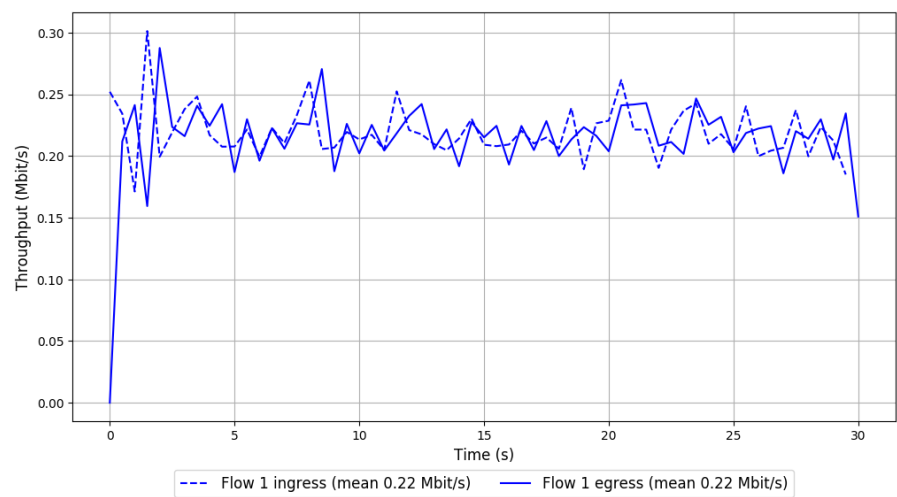
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.672 ms

Loss rate: 0.51%



Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-05-22 09:17:56

End at: 2018-05-22 09:18:26

Local clock offset: 0.046 ms

Remote clock offset: 0.096 ms

# Below is generated by plot.py at 2018-05-22 12:25:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.324 ms

Loss rate: 0.51%

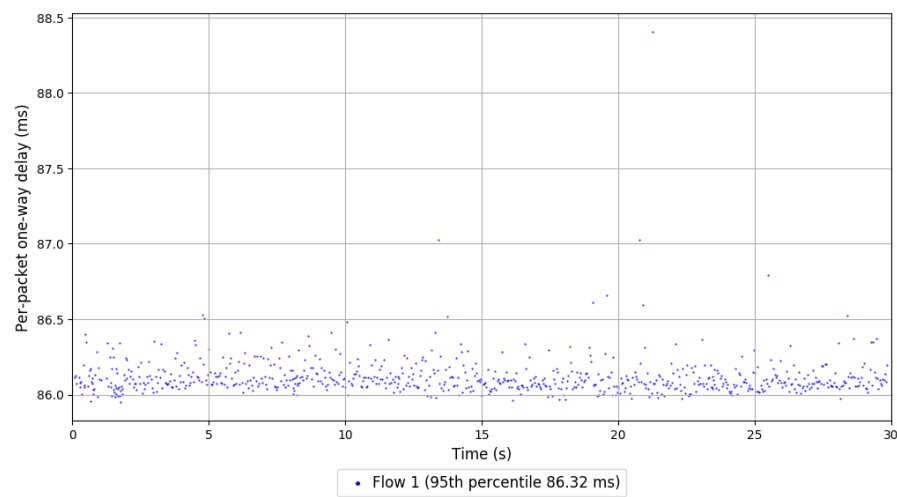
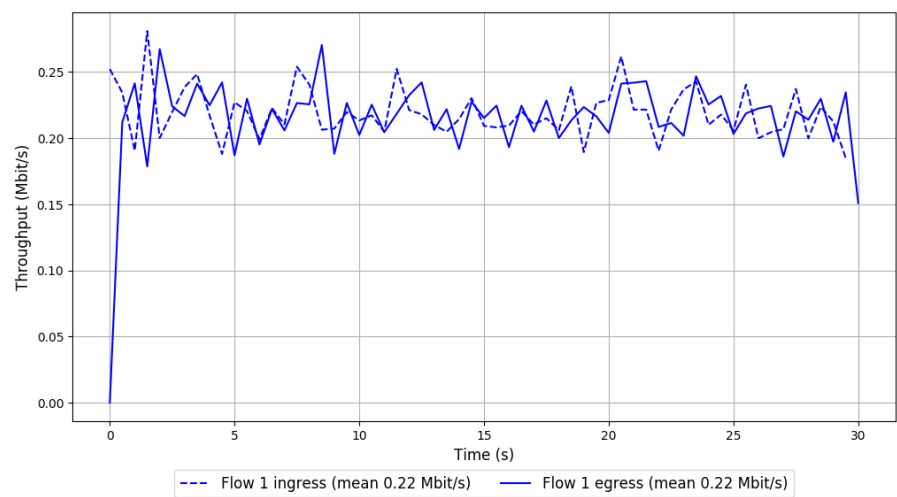
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.324 ms

Loss rate: 0.51%

Run 4: Report of SReAM — Data Link

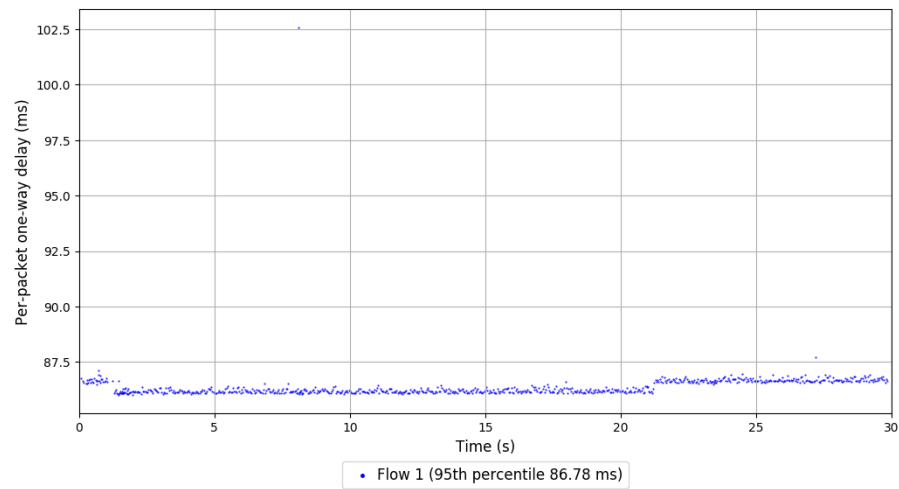
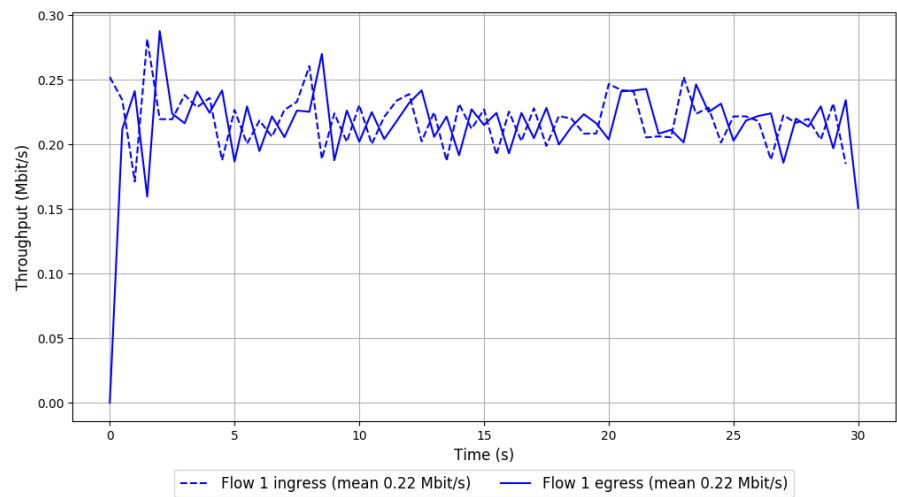


Run 5: Statistics of SCReAM

Start at: 2018-05-22 09:38:14  
End at: 2018-05-22 09:38:45  
Local clock offset: 0.08 ms  
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2018-05-22 12:25:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.780 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.780 ms  
Loss rate: 0.51%

Run 5: Report of SReAM — Data Link

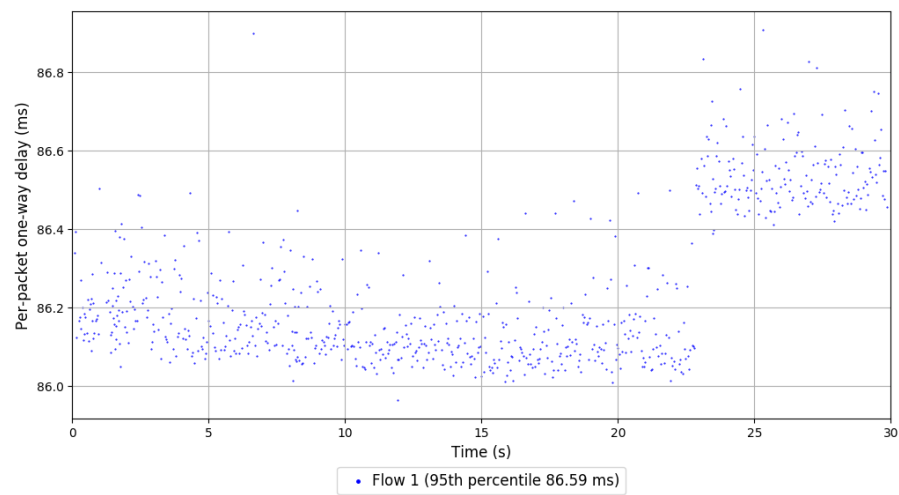
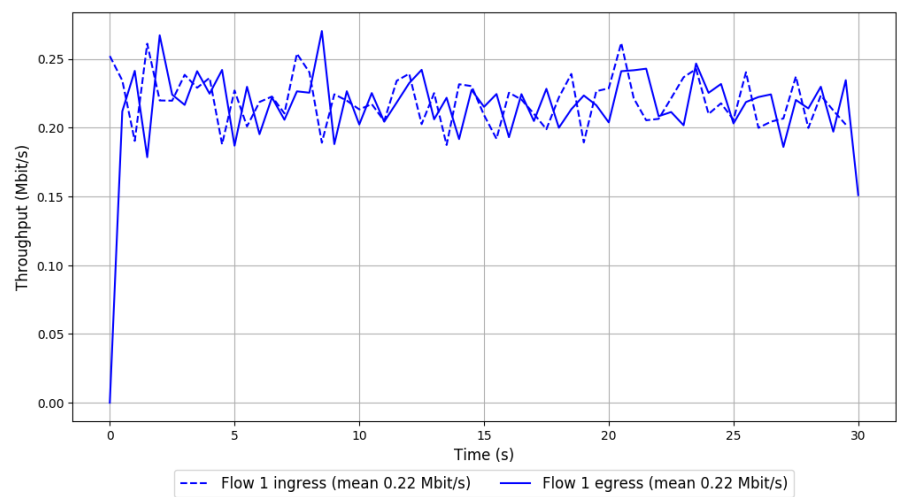


Run 6: Statistics of SCReAM

Start at: 2018-05-22 09:58:13  
End at: 2018-05-22 09:58:43  
Local clock offset: -0.073 ms  
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2018-05-22 12:25:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.595 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.595 ms  
Loss rate: 0.64%

Run 6: Report of SReAM — Data Link



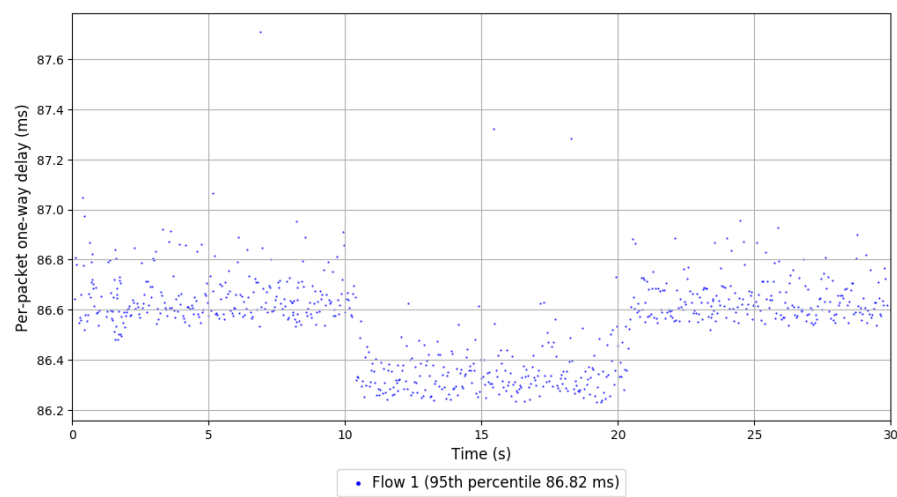
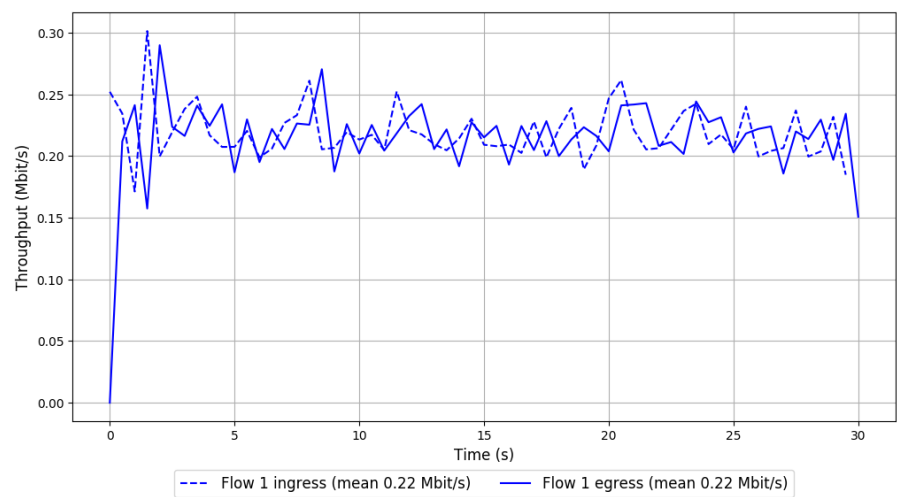
Run 7: Statistics of SCReAM

Start at: 2018-05-22 10:18:25  
End at: 2018-05-22 10:18:55  
Local clock offset: -0.002 ms  
Remote clock offset: -0.114 ms

# Below is generated by plot.py at 2018-05-22 12:25:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.816 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.816 ms  
Loss rate: 0.51%



Run 7: Report of SReAM — Data Link

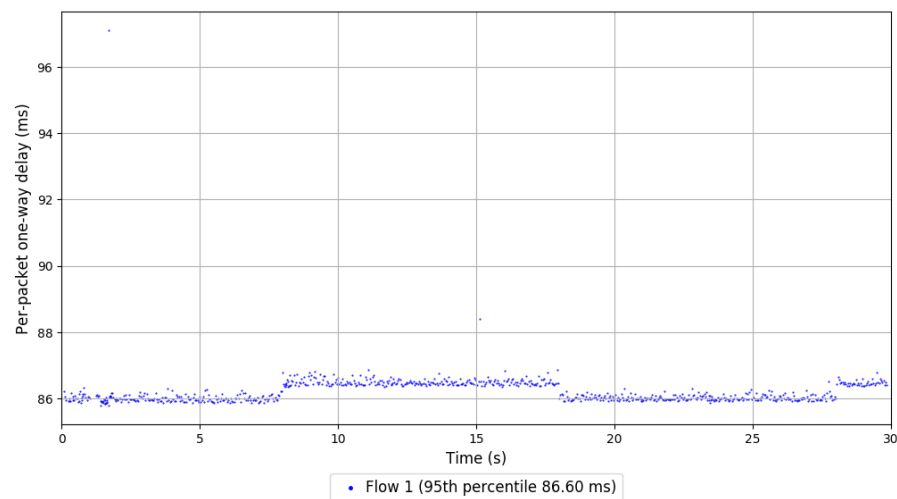
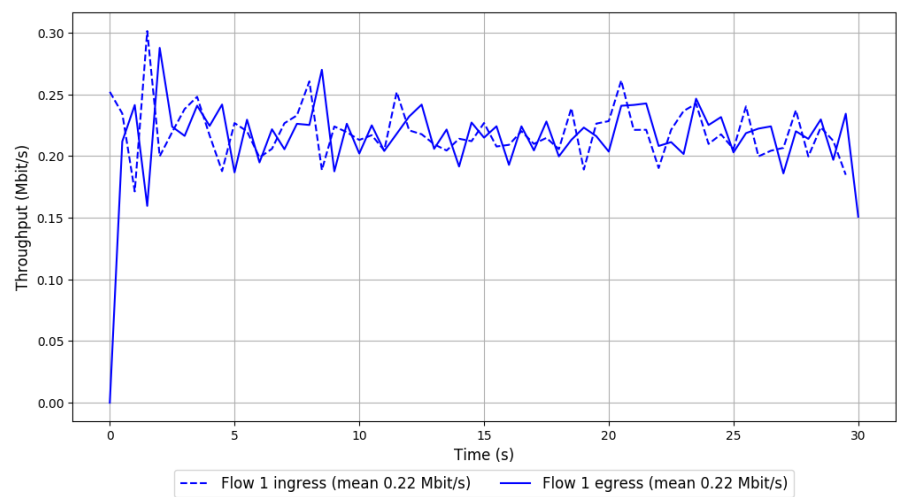


Run 8: Statistics of SCReAM

Start at: 2018-05-22 10:38:28  
End at: 2018-05-22 10:38:58  
Local clock offset: -0.154 ms  
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2018-05-22 12:25:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.604 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.604 ms  
Loss rate: 0.51%

Run 8: Report of SReAM — Data Link

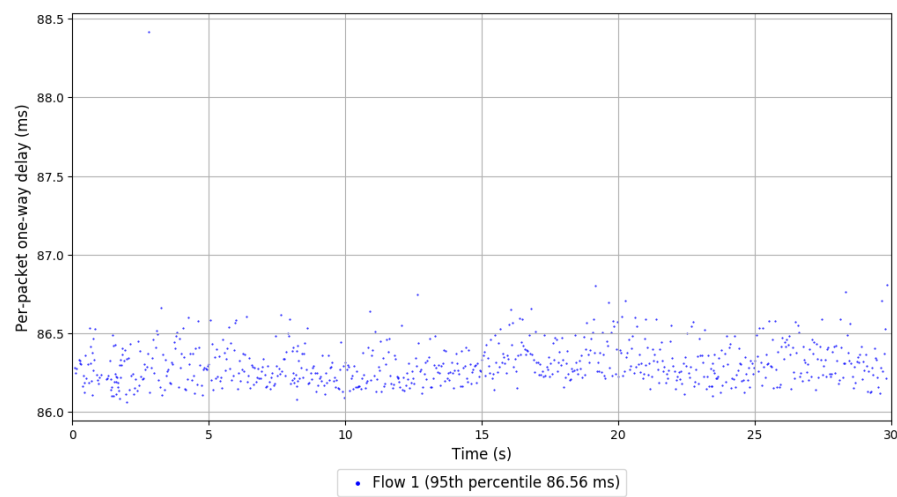
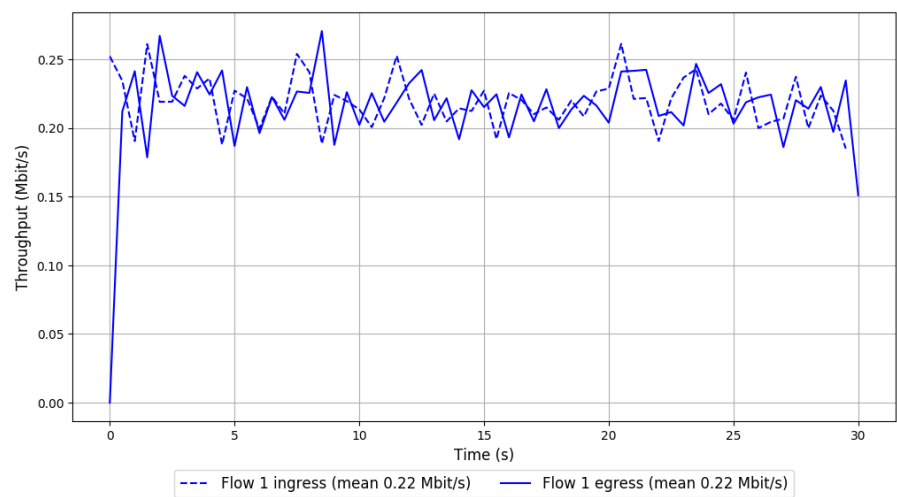


Run 9: Statistics of SCReAM

Start at: 2018-05-22 10:58:46  
End at: 2018-05-22 10:59:16  
Local clock offset: -0.036 ms  
Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2018-05-22 12:25:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.555 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.555 ms  
Loss rate: 0.51%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-05-22 11:18:55

End at: 2018-05-22 11:19:25

Local clock offset: -0.026 ms

Remote clock offset: 0.116 ms

# Below is generated by plot.py at 2018-05-22 12:25:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.495 ms

Loss rate: 0.64%

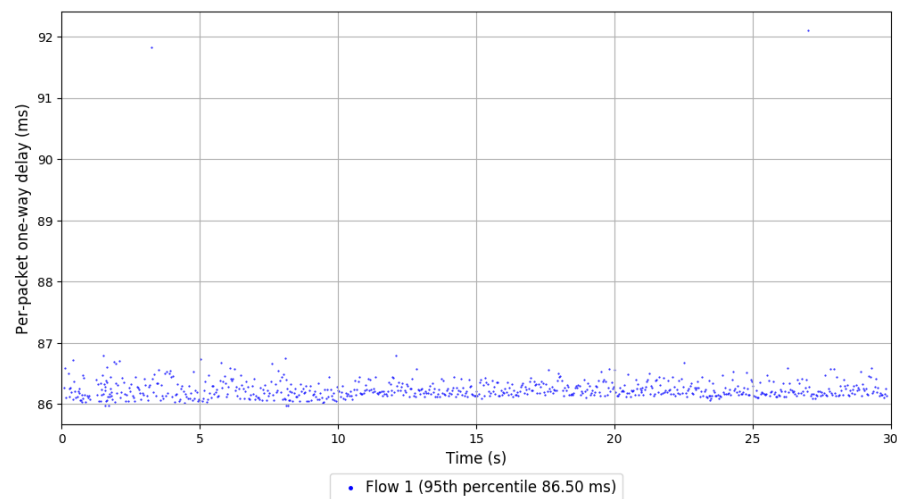
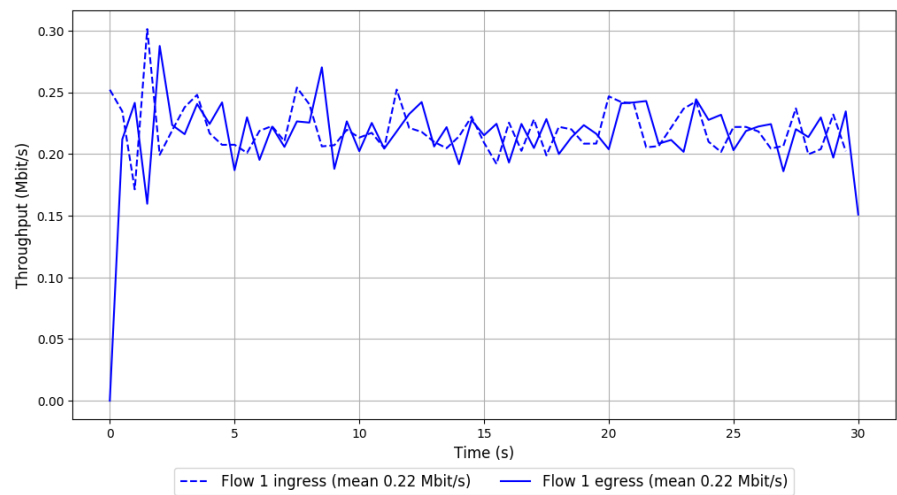
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.495 ms

Loss rate: 0.64%

Run 10: Report of SCRaM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-05-22 08:23:39

End at: 2018-05-22 08:24:09

Local clock offset: 0.197 ms

Remote clock offset: 0.027 ms

# Below is generated by plot.py at 2018-05-22 12:25:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 86.740 ms

Loss rate: 0.14%

-- Flow 1:

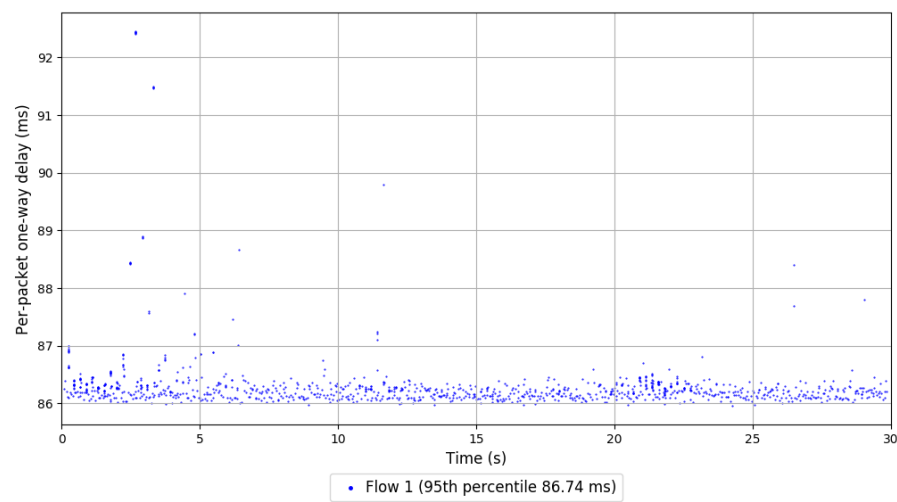
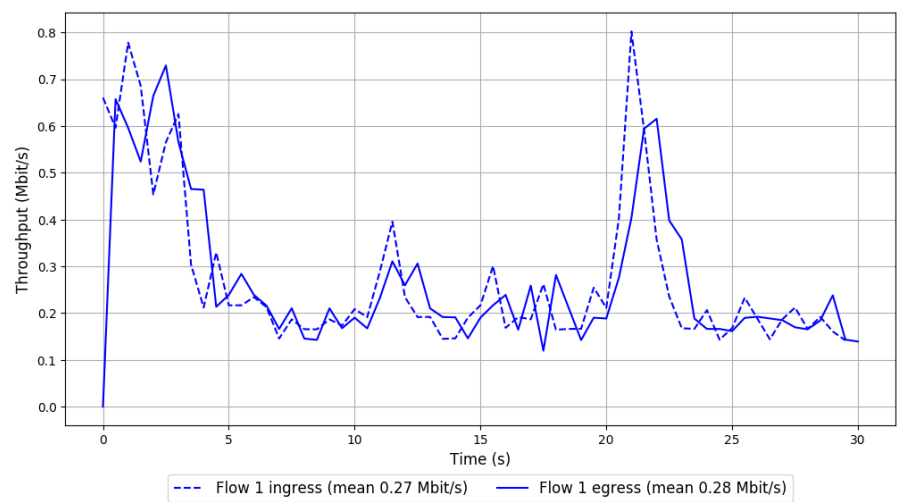
Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 86.740 ms

Loss rate: 0.14%



Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-05-22 08:43:41

End at: 2018-05-22 08:44:11

Local clock offset: 0.21 ms

Remote clock offset: 0.075 ms

# Below is generated by plot.py at 2018-05-22 12:25:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 86.805 ms

Loss rate: 0.03%

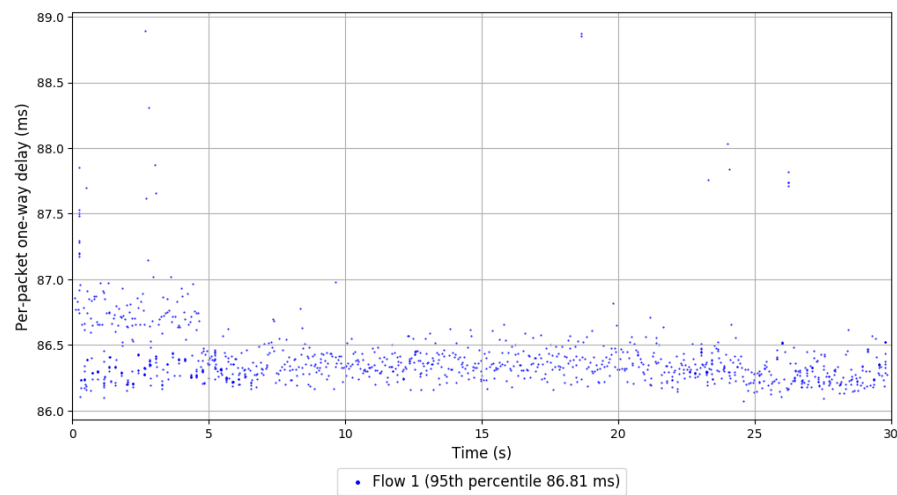
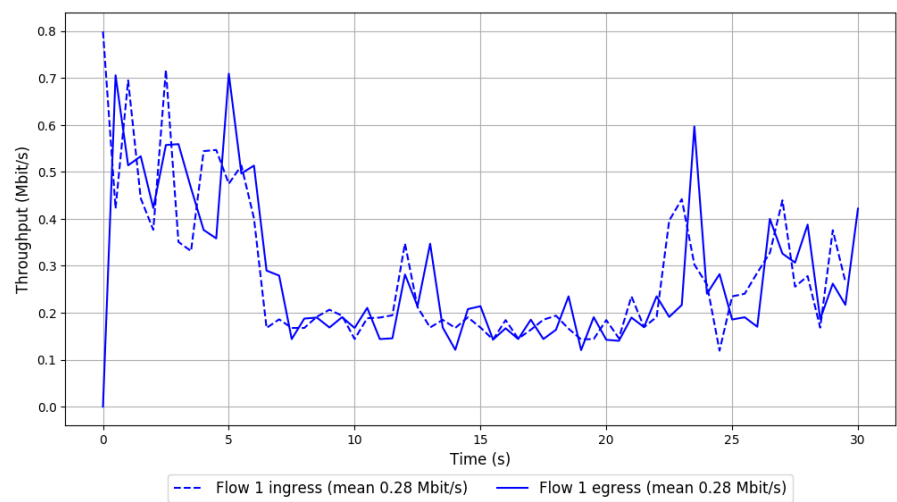
-- Flow 1:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 86.805 ms

Loss rate: 0.03%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-05-22 09:04:01

End at: 2018-05-22 09:04:31

Local clock offset: -0.1 ms

Remote clock offset: 0.228 ms

# Below is generated by plot.py at 2018-05-22 12:25:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 86.347 ms

Loss rate: 0.44%

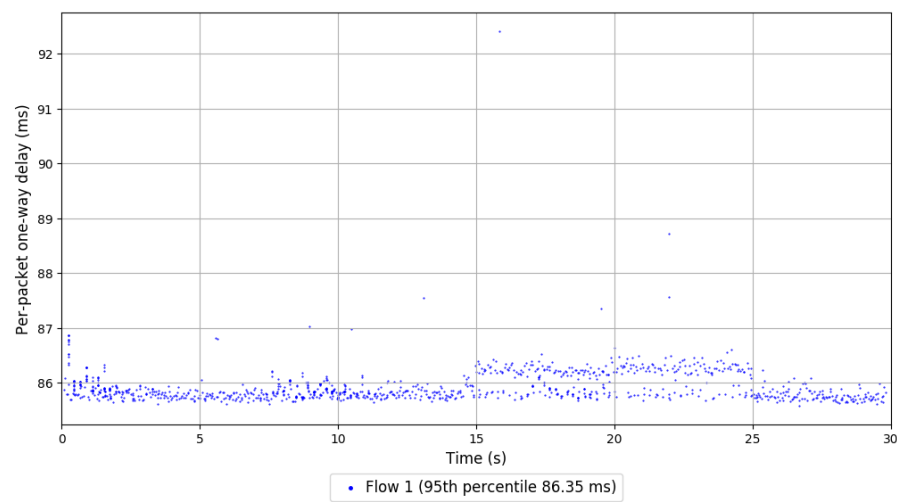
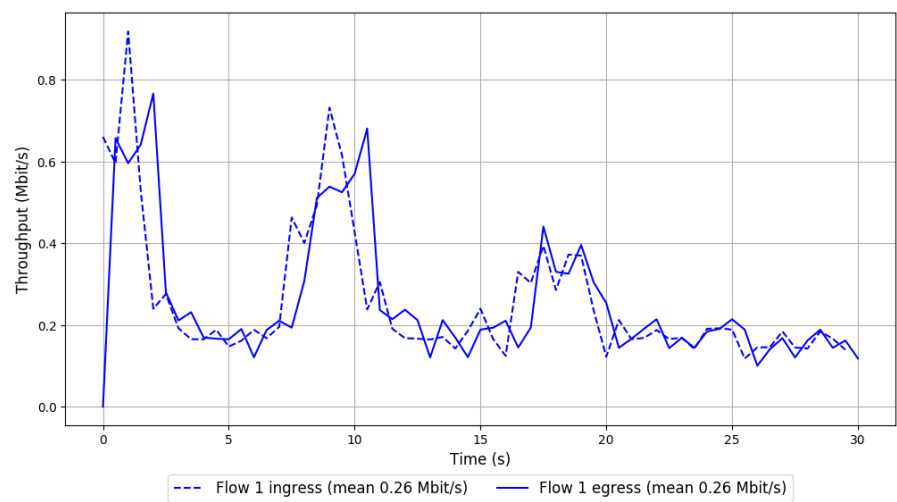
-- Flow 1:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 86.347 ms

Loss rate: 0.44%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-05-22 09:24:20

End at: 2018-05-22 09:24:50

Local clock offset: 0.144 ms

Remote clock offset: 0.116 ms

# Below is generated by plot.py at 2018-05-22 12:25:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 86.832 ms

Loss rate: 0.48%

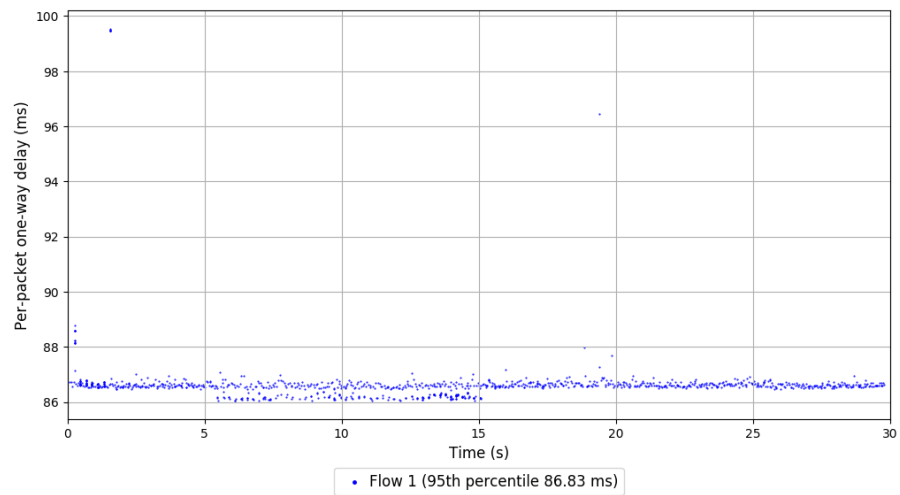
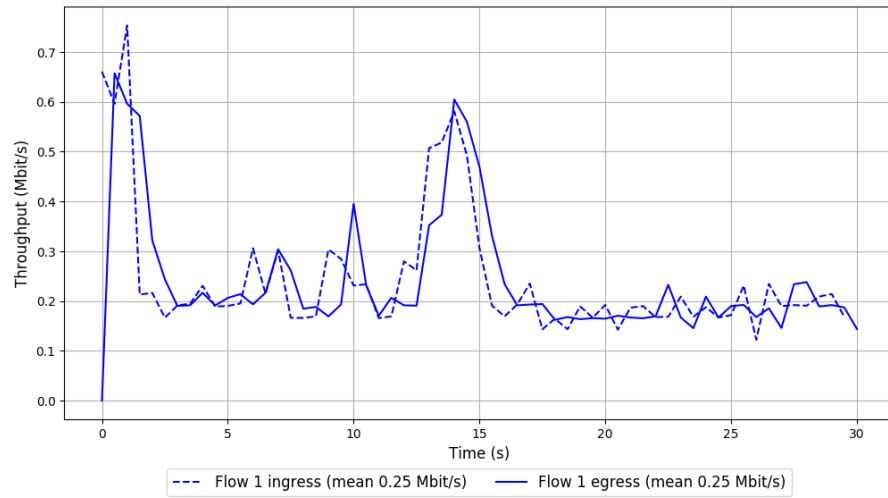
-- Flow 1:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 86.832 ms

Loss rate: 0.48%

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



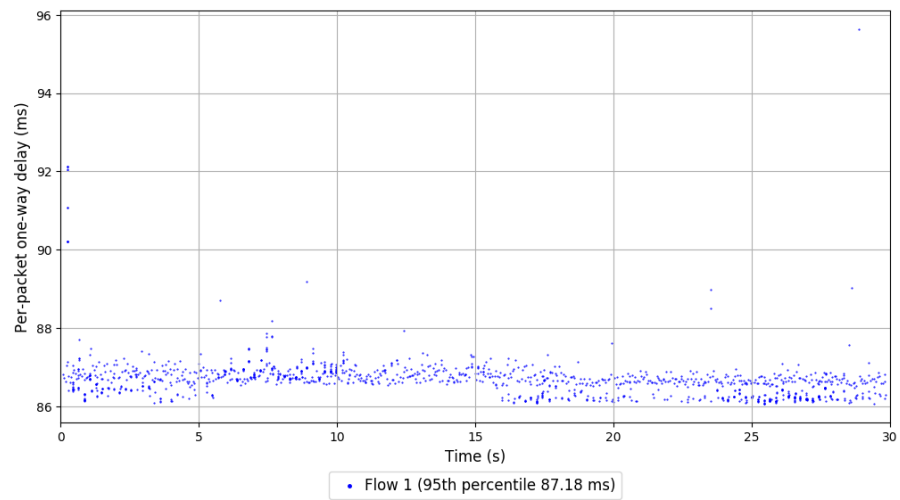
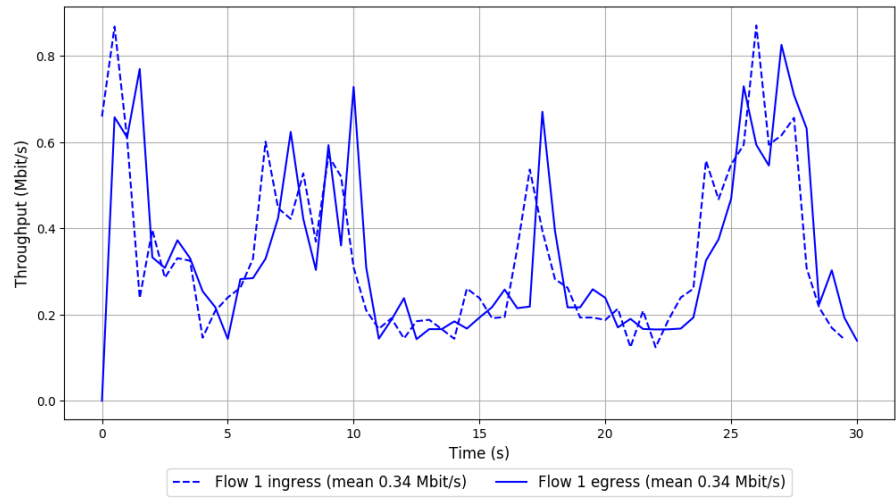
Run 5: Statistics of Sprout

Start at: 2018-05-22 09:44:40  
End at: 2018-05-22 09:45:10  
Local clock offset: 0.05 ms  
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2018-05-22 12:25:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.34 Mbit/s  
95th percentile per-packet one-way delay: 87.178 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 0.34 Mbit/s  
95th percentile per-packet one-way delay: 87.178 ms  
Loss rate: 0.02%



## Run 5: Report of Sprout — Data Link

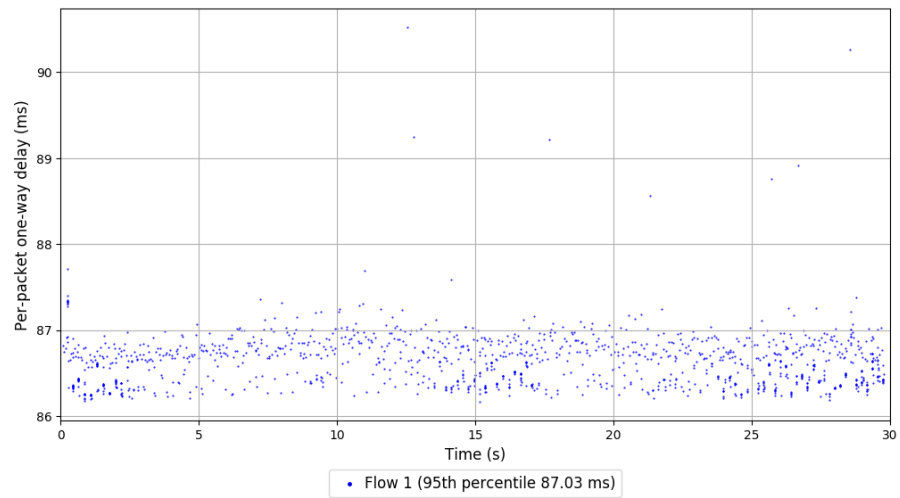
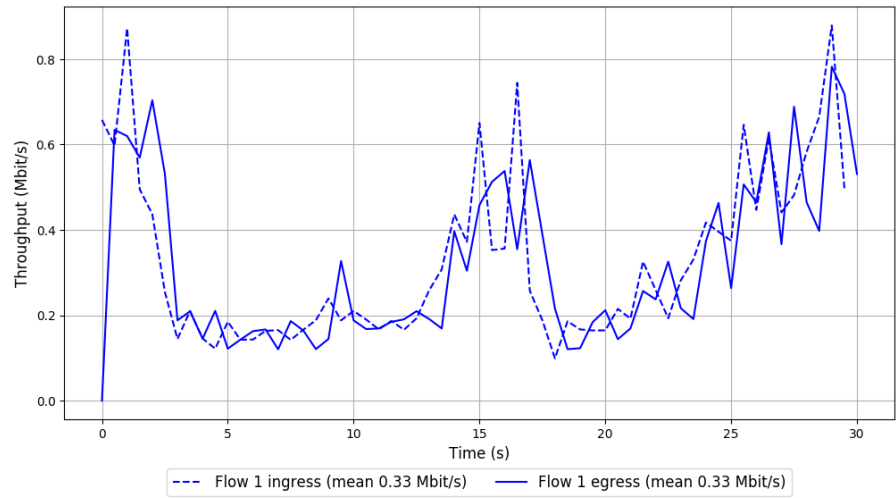


Run 6: Statistics of Sprout

Start at: 2018-05-22 10:04:34  
End at: 2018-05-22 10:05:05  
Local clock offset: 0.124 ms  
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2018-05-22 12:25:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.33 Mbit/s  
95th percentile per-packet one-way delay: 87.032 ms  
Loss rate: 1.09%  
-- Flow 1:  
Average throughput: 0.33 Mbit/s  
95th percentile per-packet one-way delay: 87.032 ms  
Loss rate: 1.09%

## Run 6: Report of Sprout — Data Link

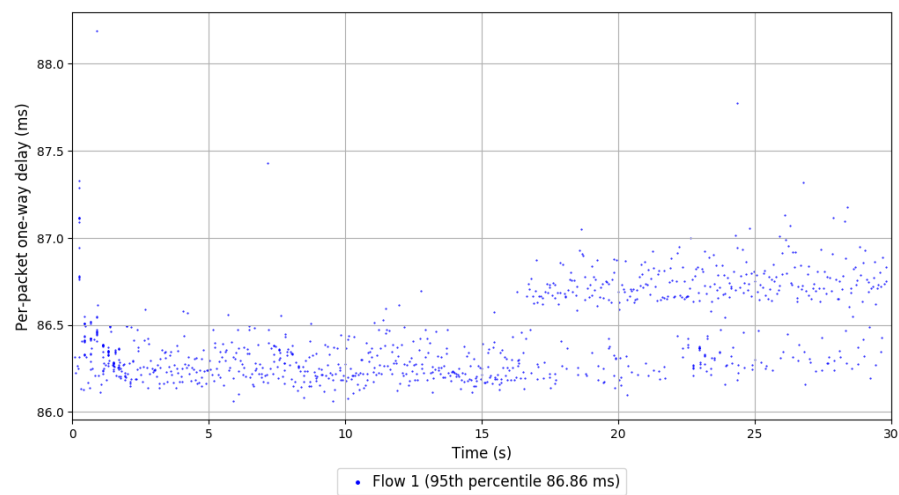
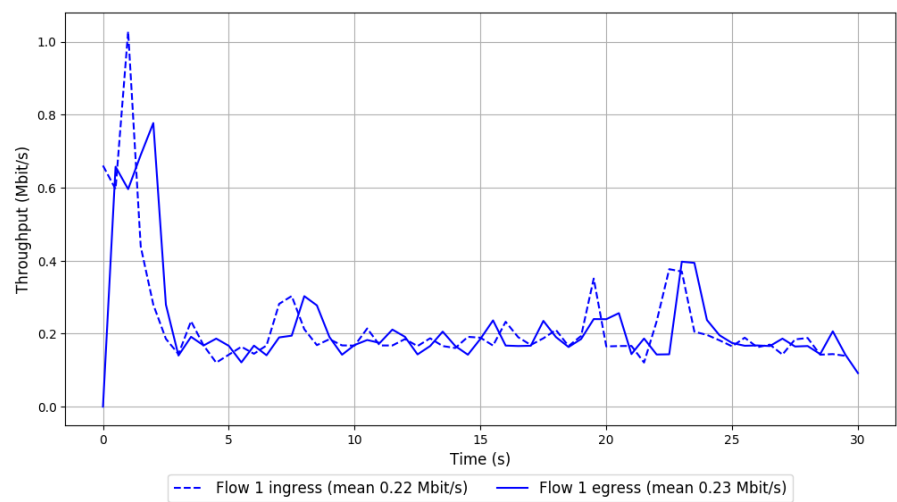


Run 7: Statistics of Sprout

Start at: 2018-05-22 10:24:49  
End at: 2018-05-22 10:25:19  
Local clock offset: 0.041 ms  
Remote clock offset: -0.151 ms

# Below is generated by plot.py at 2018-05-22 12:25:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.23 Mbit/s  
95th percentile per-packet one-way delay: 86.864 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 0.23 Mbit/s  
95th percentile per-packet one-way delay: 86.864 ms  
Loss rate: 0.38%

Run 7: Report of Sprout — Data Link

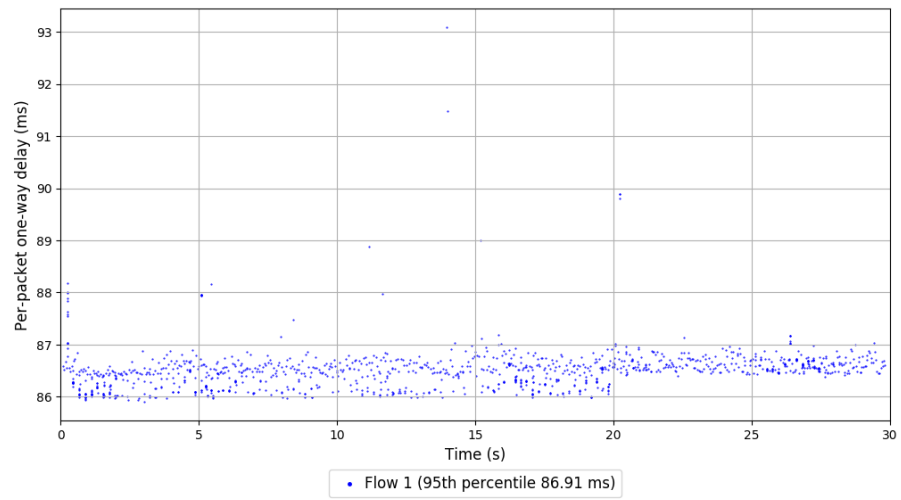
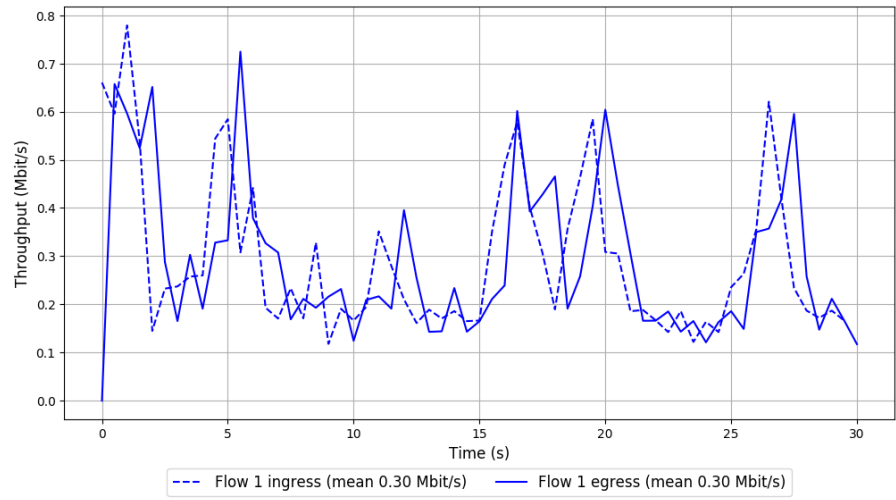


Run 8: Statistics of Sprout

Start at: 2018-05-22 10:44:46  
End at: 2018-05-22 10:45:16  
Local clock offset: -0.14 ms  
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2018-05-22 12:25:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.30 Mbit/s  
95th percentile per-packet one-way delay: 86.907 ms  
Loss rate: 0.41%  
-- Flow 1:  
Average throughput: 0.30 Mbit/s  
95th percentile per-packet one-way delay: 86.907 ms  
Loss rate: 0.41%

## Run 8: Report of Sprout — Data Link



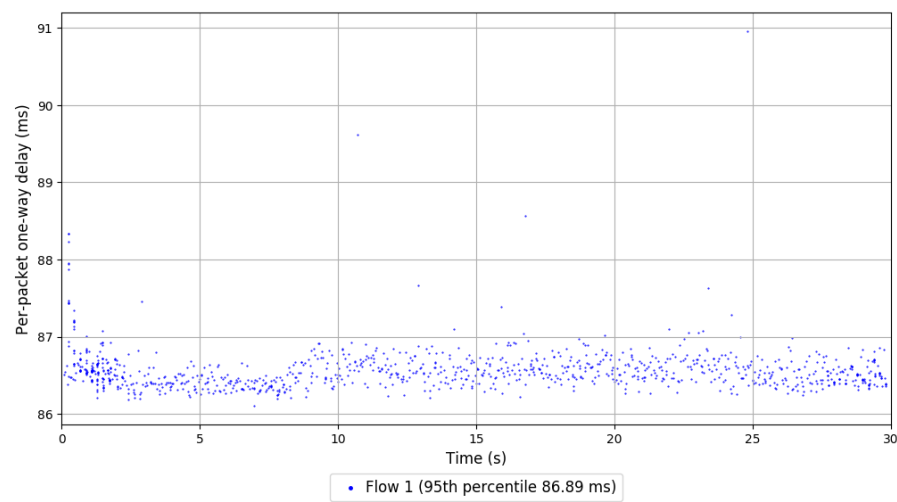
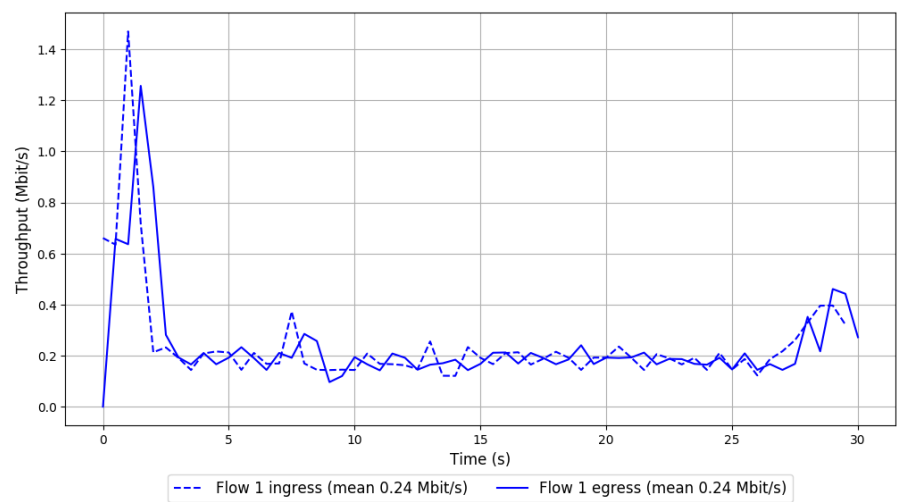
Run 9: Statistics of Sprout

Start at: 2018-05-22 11:05:06  
End at: 2018-05-22 11:05:36  
Local clock offset: 0.135 ms  
Remote clock offset: -0.144 ms

# Below is generated by plot.py at 2018-05-22 12:25:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.24 Mbit/s  
95th percentile per-packet one-way delay: 86.894 ms  
Loss rate: 0.36%  
-- Flow 1:  
Average throughput: 0.24 Mbit/s  
95th percentile per-packet one-way delay: 86.894 ms  
Loss rate: 0.36%



Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-05-22 11:25:20

End at: 2018-05-22 11:25:50

Local clock offset: 0.07 ms

Remote clock offset: 0.159 ms

# Below is generated by plot.py at 2018-05-22 12:25:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 86.675 ms

Loss rate: 0.40%

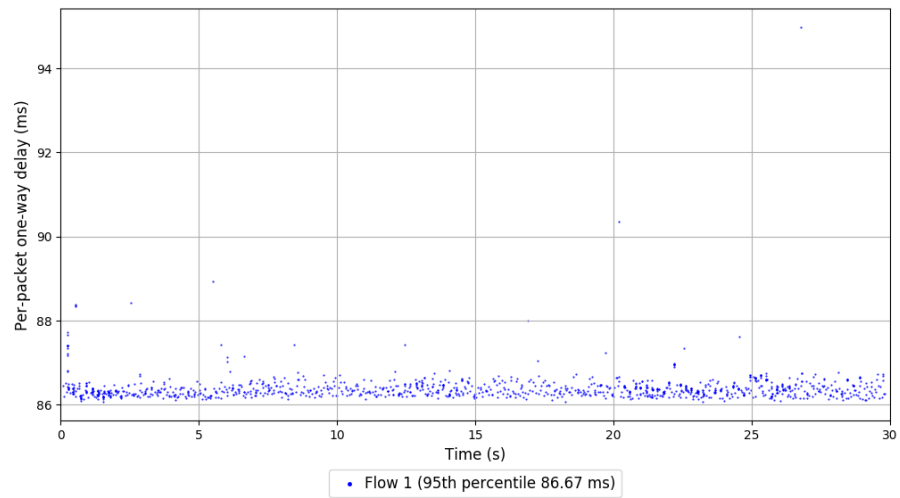
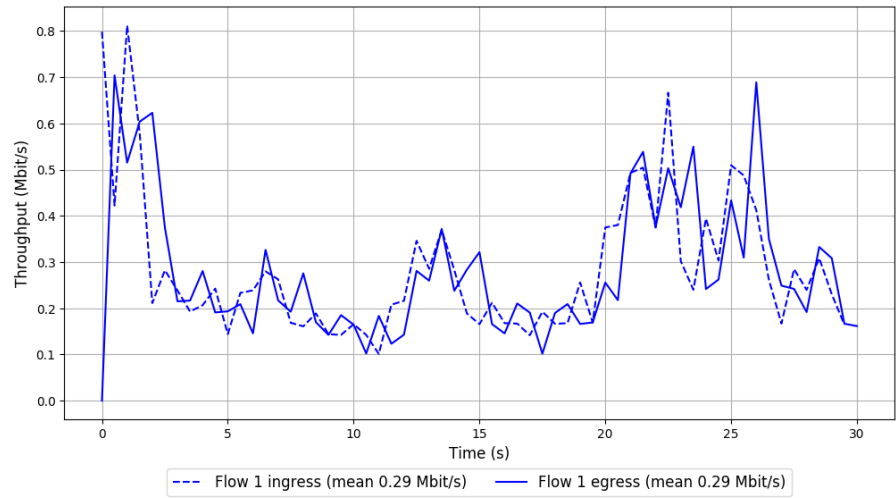
-- Flow 1:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 86.675 ms

Loss rate: 0.40%

## Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-05-22 08:31:08

End at: 2018-05-22 08:31:38

Local clock offset: 0.016 ms

Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2018-05-22 12:28:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 209.53 Mbit/s

95th percentile per-packet one-way delay: 87.114 ms

Loss rate: 0.63%

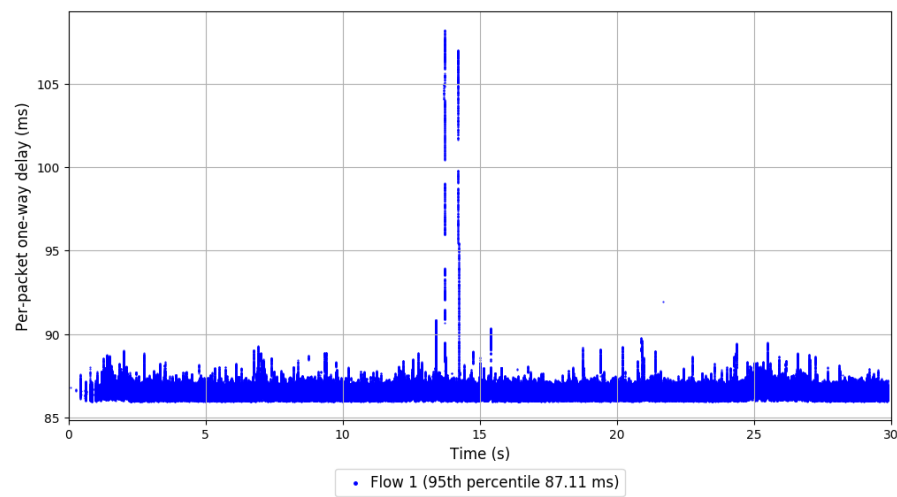
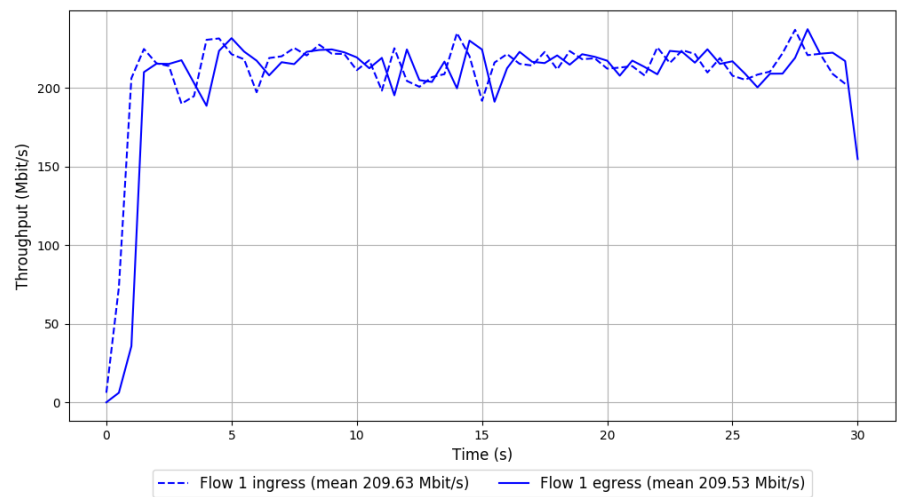
-- Flow 1:

Average throughput: 209.53 Mbit/s

95th percentile per-packet one-way delay: 87.114 ms

Loss rate: 0.63%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-05-22 08:51:11

End at: 2018-05-22 08:51:41

Local clock offset: 0.018 ms

Remote clock offset: 0.038 ms

# Below is generated by plot.py at 2018-05-22 12:28:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 199.85 Mbit/s

95th percentile per-packet one-way delay: 86.968 ms

Loss rate: 0.71%

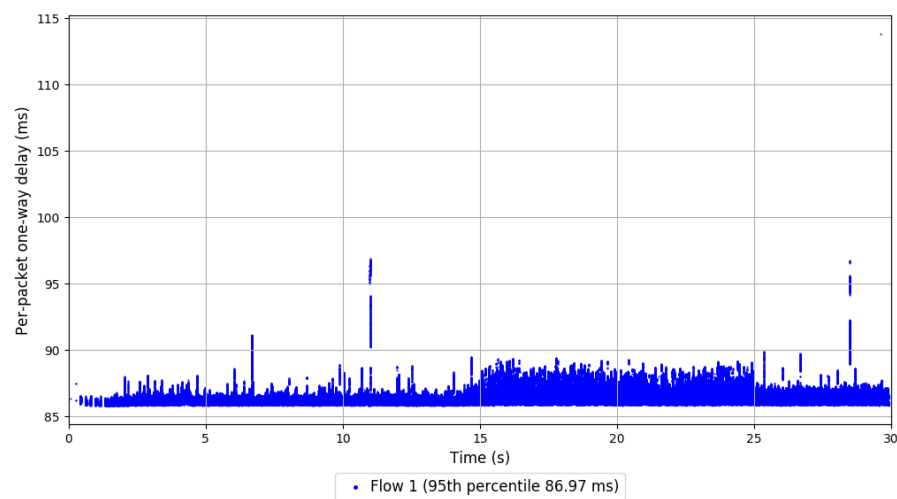
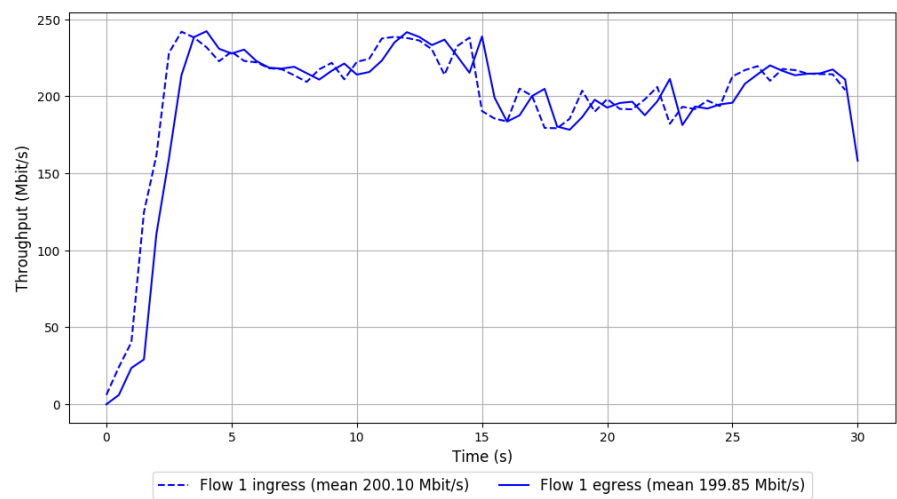
-- Flow 1:

Average throughput: 199.85 Mbit/s

95th percentile per-packet one-way delay: 86.968 ms

Loss rate: 0.71%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-05-22 09:11:36

End at: 2018-05-22 09:12:06

Local clock offset: -0.169 ms

Remote clock offset: 0.109 ms

# Below is generated by plot.py at 2018-05-22 12:28:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 213.42 Mbit/s

95th percentile per-packet one-way delay: 86.318 ms

Loss rate: 0.67%

-- Flow 1:

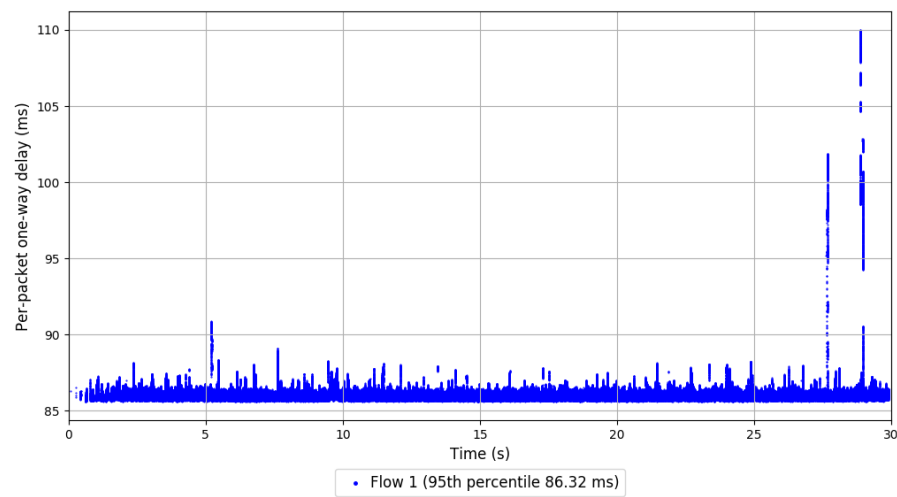
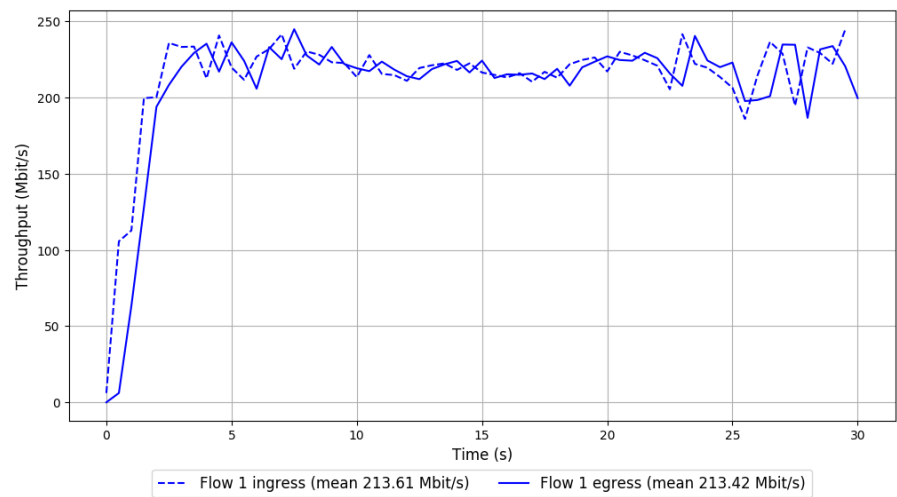
Average throughput: 213.42 Mbit/s

95th percentile per-packet one-way delay: 86.318 ms

Loss rate: 0.67%



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



Run 4: Statistics of TaoVA-100x

Start at: 2018-05-22 09:31:54

End at: 2018-05-22 09:32:24

Local clock offset: 0.004 ms

Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2018-05-22 12:28:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 188.33 Mbit/s

95th percentile per-packet one-way delay: 86.658 ms

Loss rate: 0.73%

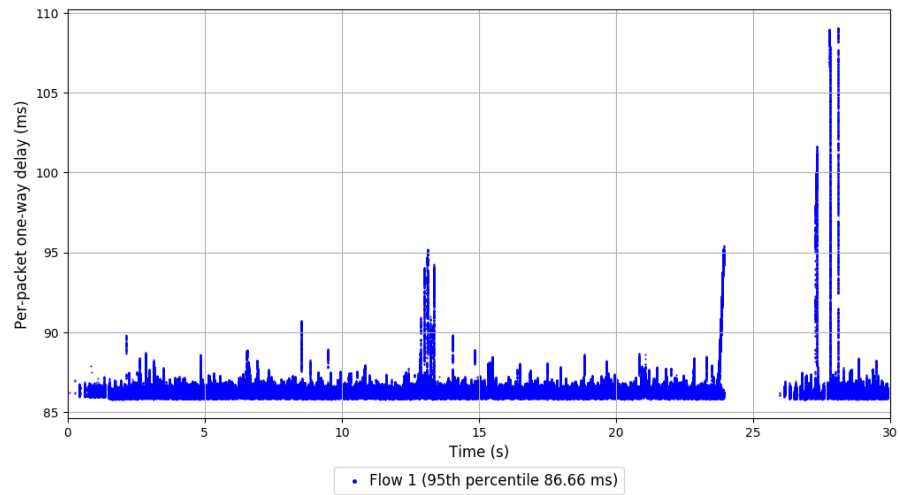
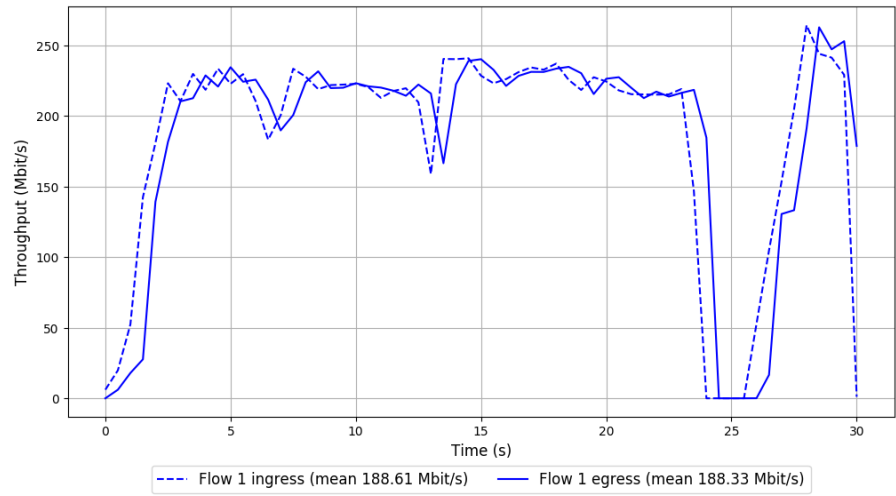
-- Flow 1:

Average throughput: 188.33 Mbit/s

95th percentile per-packet one-way delay: 86.658 ms

Loss rate: 0.73%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-05-22 09:51:54

End at: 2018-05-22 09:52:24

Local clock offset: -0.086 ms

Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2018-05-22 12:30:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 211.84 Mbit/s

95th percentile per-packet one-way delay: 86.675 ms

Loss rate: 0.61%

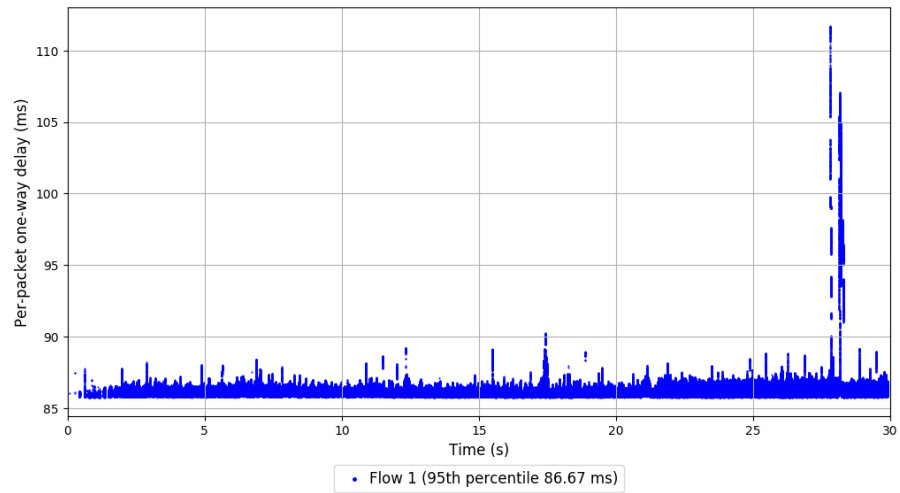
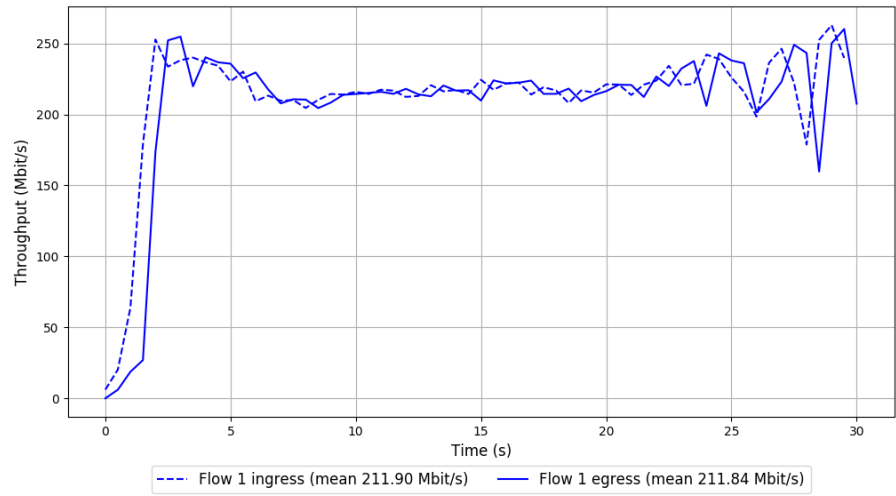
-- Flow 1:

Average throughput: 211.84 Mbit/s

95th percentile per-packet one-way delay: 86.675 ms

Loss rate: 0.61%

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

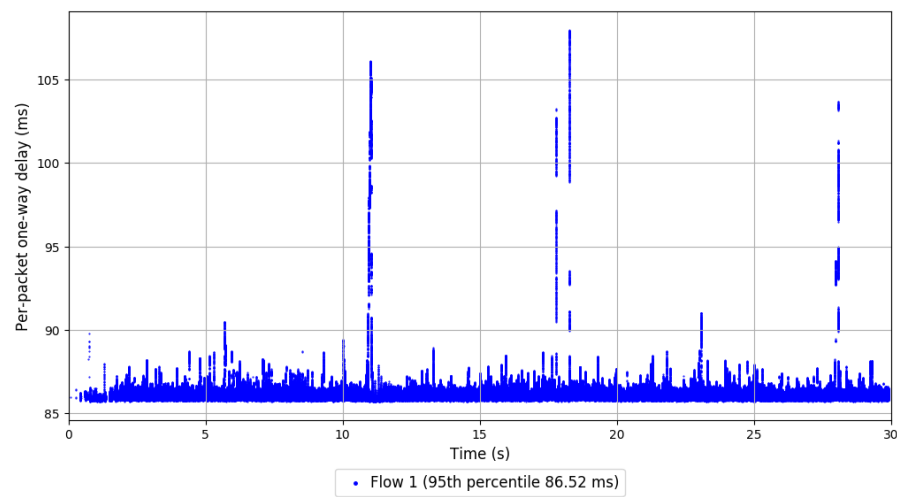
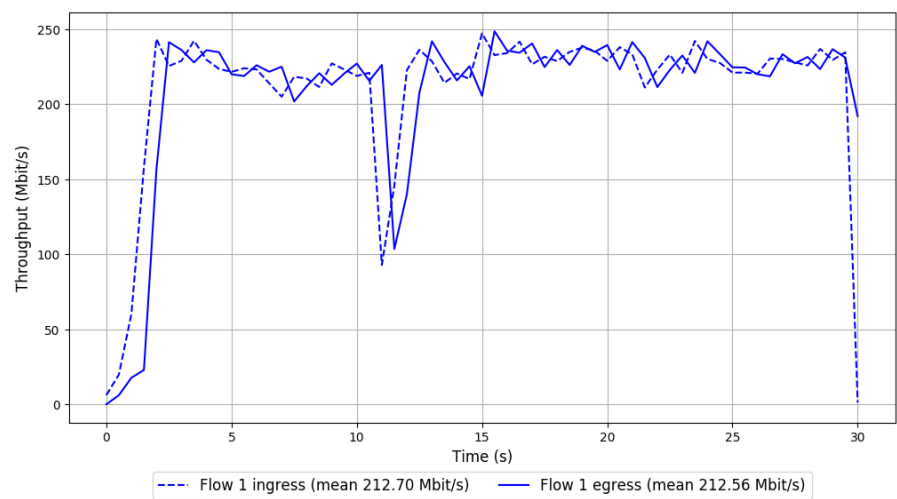


Run 6: Statistics of TaoVA-100x

Start at: 2018-05-22 10:12:04  
End at: 2018-05-22 10:12:34  
Local clock offset: -0.188 ms  
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2018-05-22 12:31:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 212.56 Mbit/s  
95th percentile per-packet one-way delay: 86.523 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 212.56 Mbit/s  
95th percentile per-packet one-way delay: 86.523 ms  
Loss rate: 0.64%

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



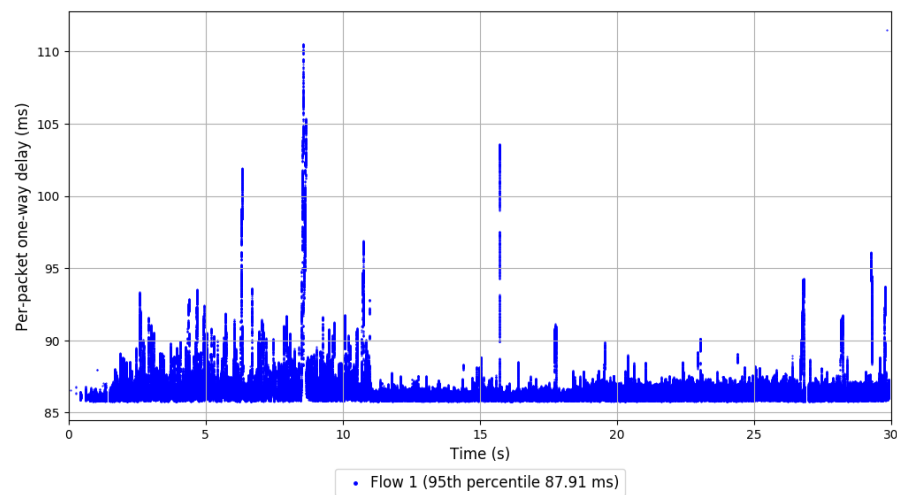
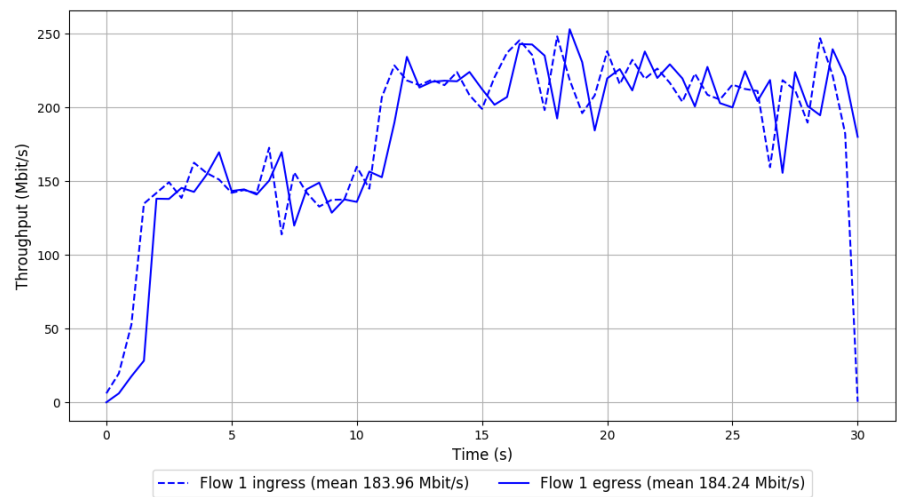
Run 7: Statistics of TaoVA-100x

Start at: 2018-05-22 10:32:07  
End at: 2018-05-22 10:32:37  
Local clock offset: -0.152 ms  
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2018-05-22 12:31:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 184.24 Mbit/s  
95th percentile per-packet one-way delay: 87.908 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 184.24 Mbit/s  
95th percentile per-packet one-way delay: 87.908 ms  
Loss rate: 0.44%



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

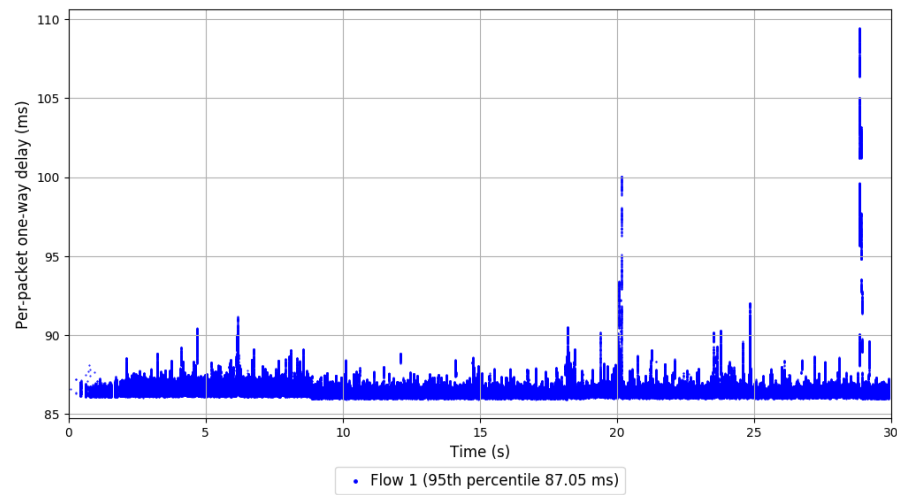
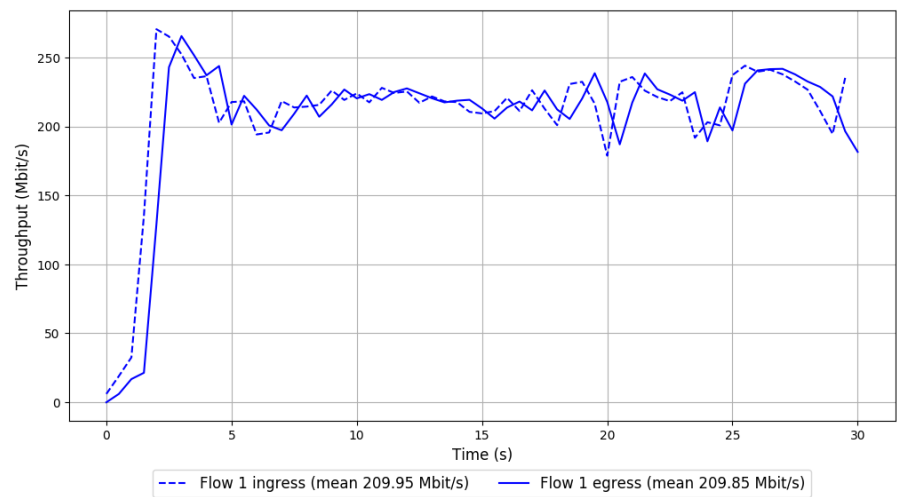


Run 8: Statistics of TaoVA-100x

Start at: 2018-05-22 10:52:27  
End at: 2018-05-22 10:52:57  
Local clock offset: 0.078 ms  
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2018-05-22 12:32:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 209.85 Mbit/s  
95th percentile per-packet one-way delay: 87.054 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 209.85 Mbit/s  
95th percentile per-packet one-way delay: 87.054 ms  
Loss rate: 0.64%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-05-22 11:12:39

End at: 2018-05-22 11:13:09

Local clock offset: 0.247 ms

Remote clock offset: 0.041 ms

# Below is generated by plot.py at 2018-05-22 12:35:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 212.01 Mbit/s

95th percentile per-packet one-way delay: 86.920 ms

Loss rate: 0.59%

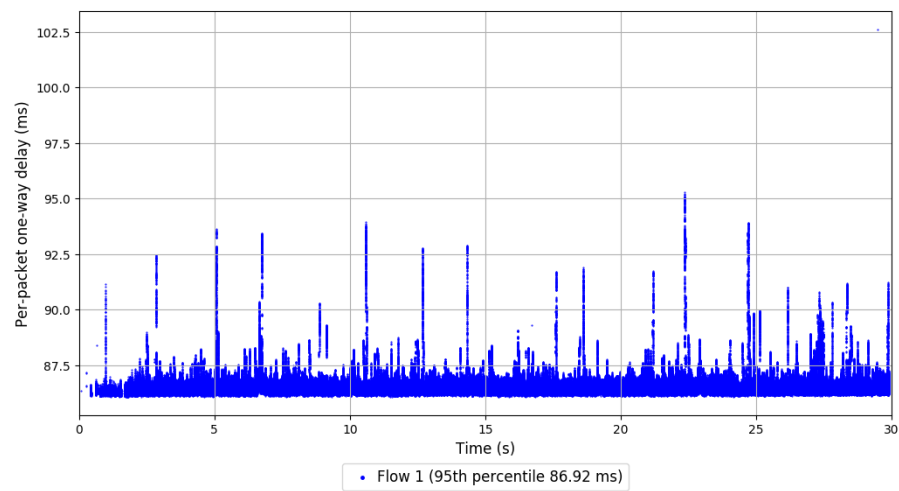
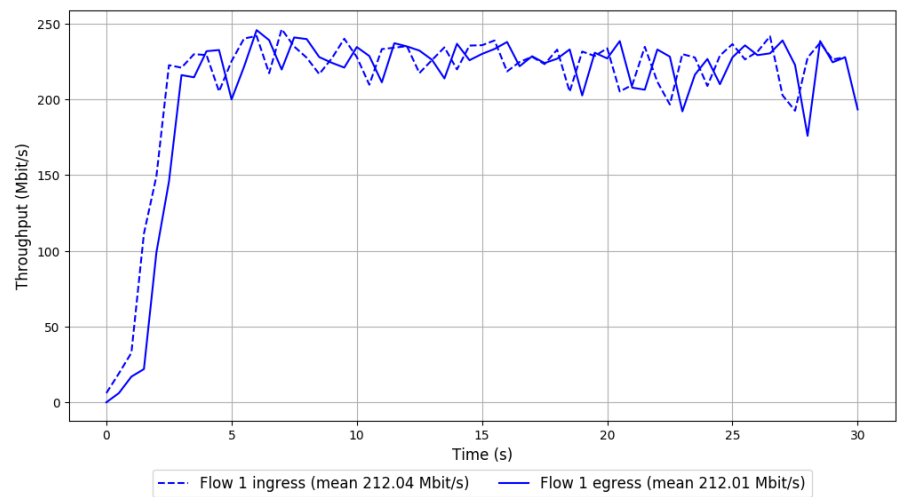
-- Flow 1:

Average throughput: 212.01 Mbit/s

95th percentile per-packet one-way delay: 86.920 ms

Loss rate: 0.59%

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

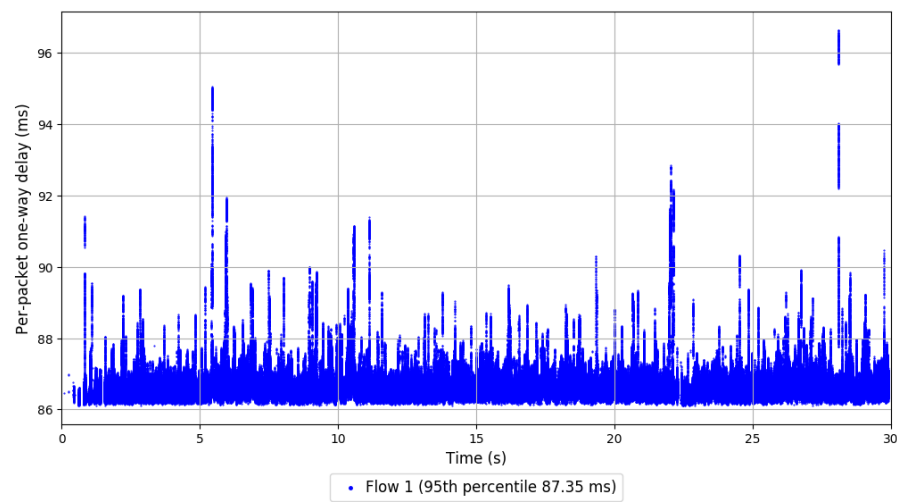
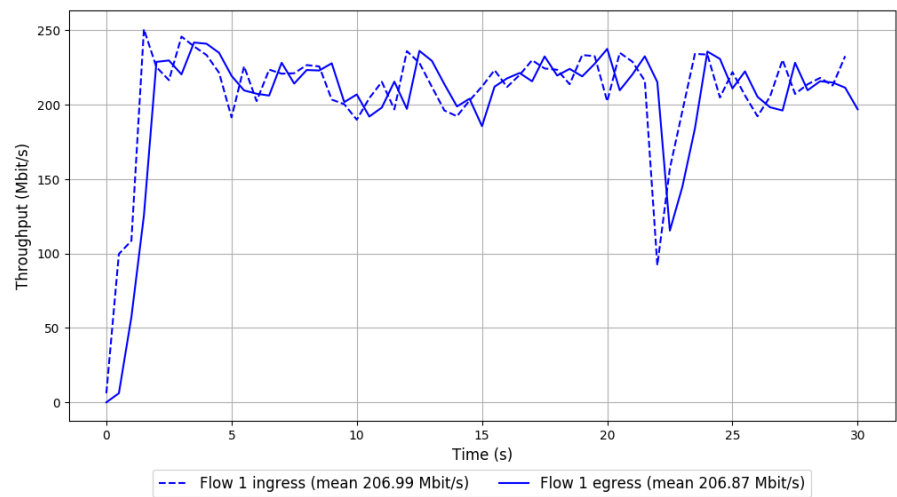


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-05-22 11:32:35
End at: 2018-05-22 11:33:05
Local clock offset: 0.265 ms
Remote clock offset: 0.286 ms

# Below is generated by plot.py at 2018-05-22 12:35:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 206.87 Mbit/s
95th percentile per-packet one-way delay: 87.346 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 206.87 Mbit/s
95th percentile per-packet one-way delay: 87.346 ms
Loss rate: 0.63%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-05-22 08:29:59

End at: 2018-05-22 08:30:29

Local clock offset: 0.339 ms

Remote clock offset: 0.03 ms

# Below is generated by plot.py at 2018-05-22 12:35:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 47.77 Mbit/s

95th percentile per-packet one-way delay: 89.475 ms

Loss rate: 0.65%

-- Flow 1:

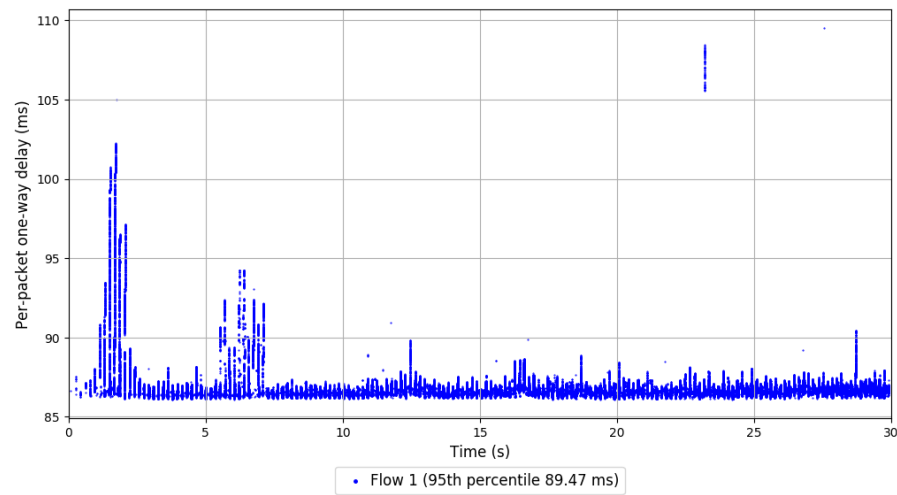
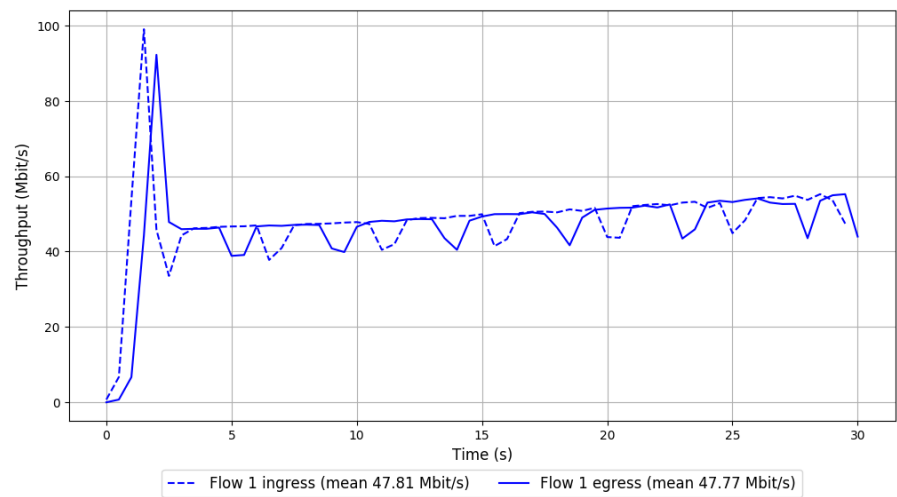
Average throughput: 47.77 Mbit/s

95th percentile per-packet one-way delay: 89.475 ms

Loss rate: 0.65%



Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-05-22 08:50:01

End at: 2018-05-22 08:50:31

Local clock offset: 0.124 ms

Remote clock offset: 0.04 ms

# Below is generated by plot.py at 2018-05-22 12:35:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 52.59 Mbit/s

95th percentile per-packet one-way delay: 86.827 ms

Loss rate: 0.64%

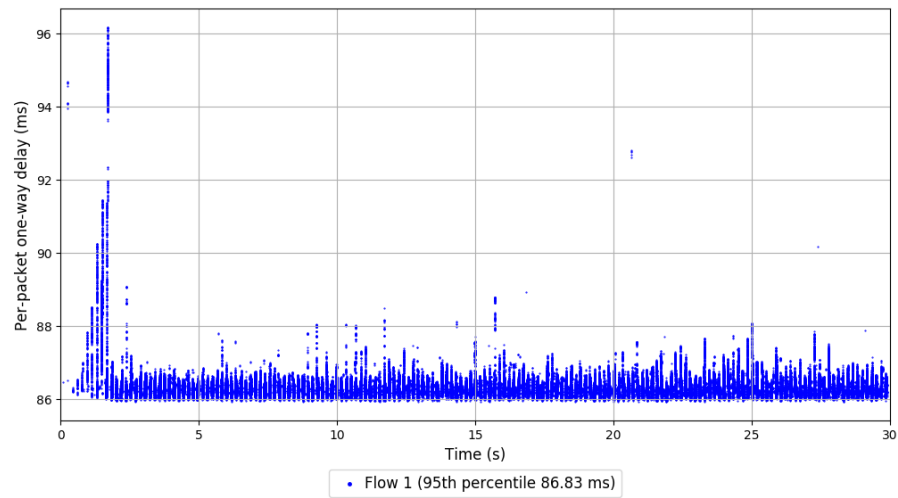
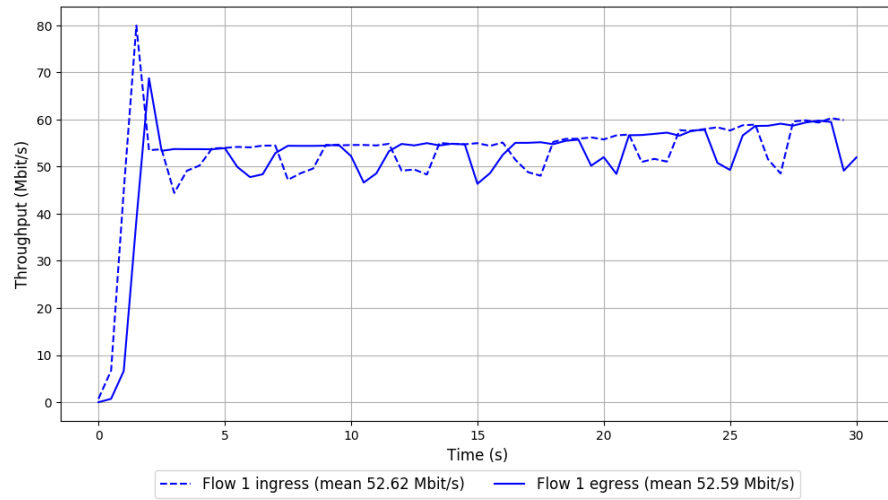
-- Flow 1:

Average throughput: 52.59 Mbit/s

95th percentile per-packet one-way delay: 86.827 ms

Loss rate: 0.64%

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



Run 3: Statistics of TCP Vegas

Start at: 2018-05-22 09:10:26

End at: 2018-05-22 09:10:56

Local clock offset: 0.005 ms

Remote clock offset: 0.066 ms

# Below is generated by plot.py at 2018-05-22 12:35:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 59.22 Mbit/s

95th percentile per-packet one-way delay: 87.719 ms

Loss rate: 0.65%

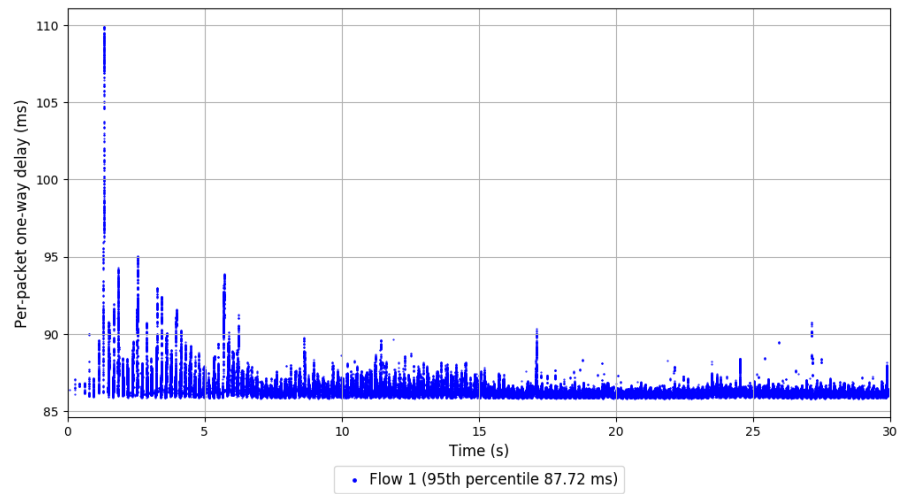
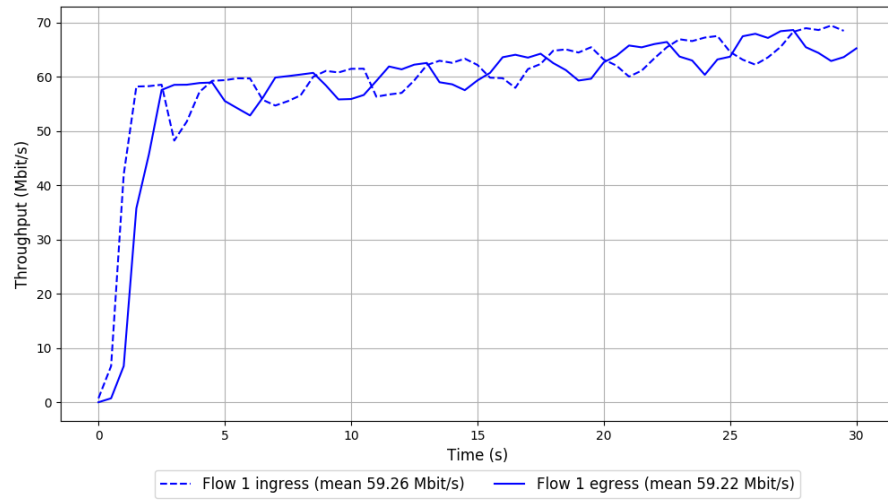
-- Flow 1:

Average throughput: 59.22 Mbit/s

95th percentile per-packet one-way delay: 87.719 ms

Loss rate: 0.65%

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



Run 4: Statistics of TCP Vegas

Start at: 2018-05-22 09:30:45

End at: 2018-05-22 09:31:15

Local clock offset: -0.025 ms

Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2018-05-22 12:35:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 46.86 Mbit/s

95th percentile per-packet one-way delay: 87.288 ms

Loss rate: 0.64%

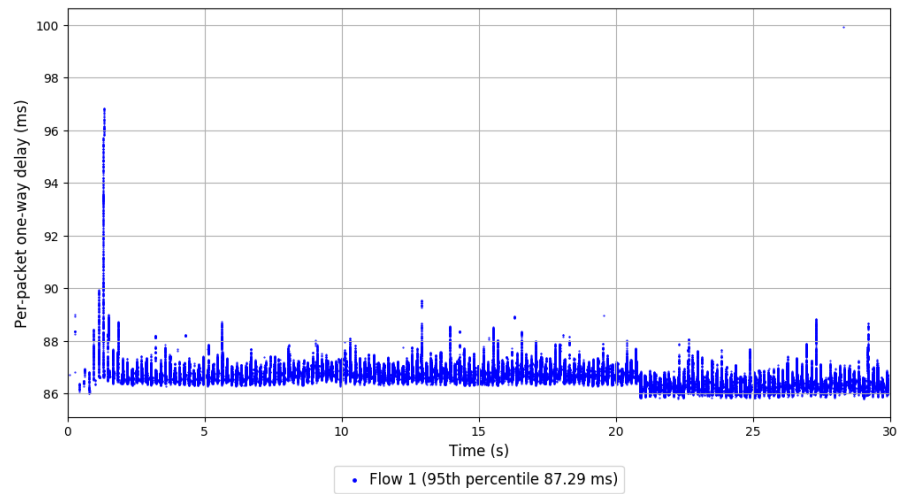
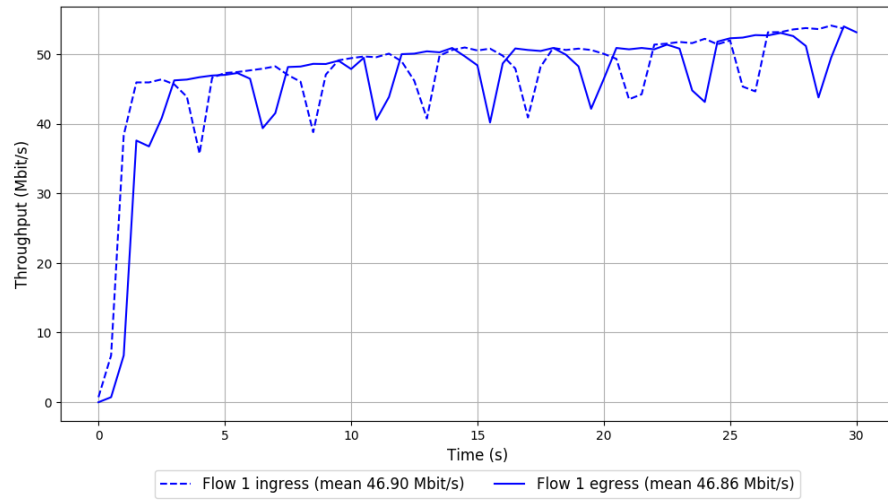
-- Flow 1:

Average throughput: 46.86 Mbit/s

95th percentile per-packet one-way delay: 87.288 ms

Loss rate: 0.64%

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



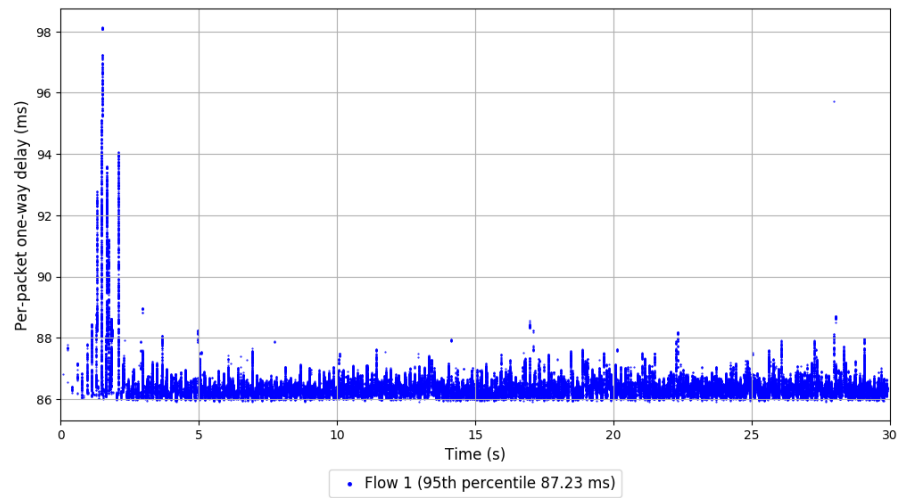
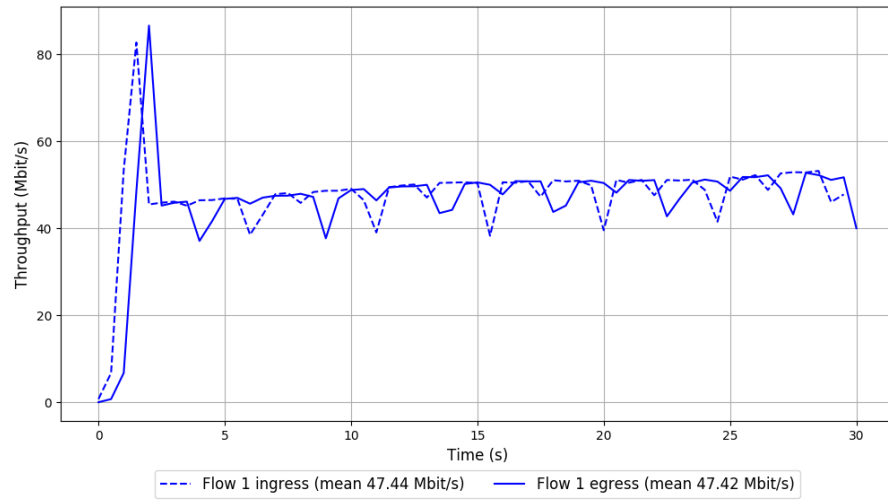
Run 5: Statistics of TCP Vegas

Start at: 2018-05-22 09:50:45  
End at: 2018-05-22 09:51:15  
Local clock offset: 0.025 ms  
Remote clock offset: -0.118 ms

# Below is generated by plot.py at 2018-05-22 12:35:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 47.42 Mbit/s  
95th percentile per-packet one-way delay: 87.226 ms  
Loss rate: 0.63%  
-- Flow 1:  
Average throughput: 47.42 Mbit/s  
95th percentile per-packet one-way delay: 87.226 ms  
Loss rate: 0.63%



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

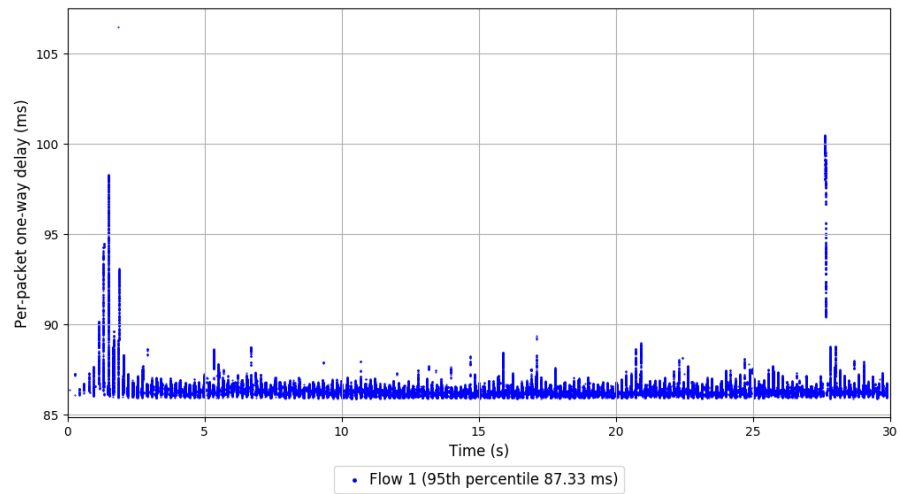
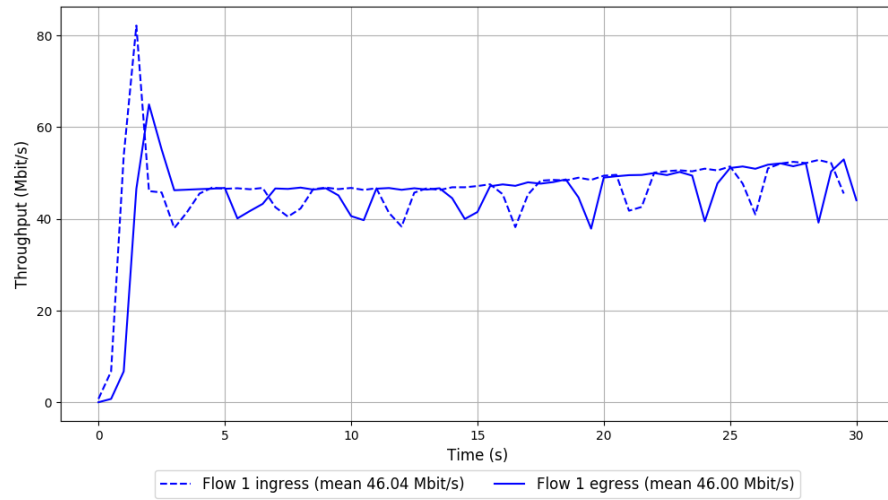


Run 6: Statistics of TCP Vegas

Start at: 2018-05-22 10:10:54  
End at: 2018-05-22 10:11:24  
Local clock offset: -0.026 ms  
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2018-05-22 12:35:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 46.00 Mbit/s  
95th percentile per-packet one-way delay: 87.332 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 46.00 Mbit/s  
95th percentile per-packet one-way delay: 87.332 ms  
Loss rate: 0.64%

# Run 6: Report of TCP Vegas — Data Link

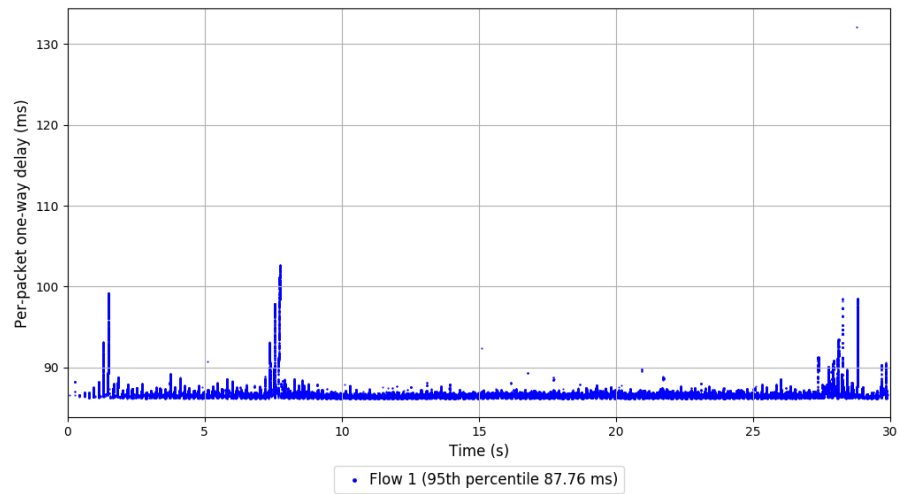
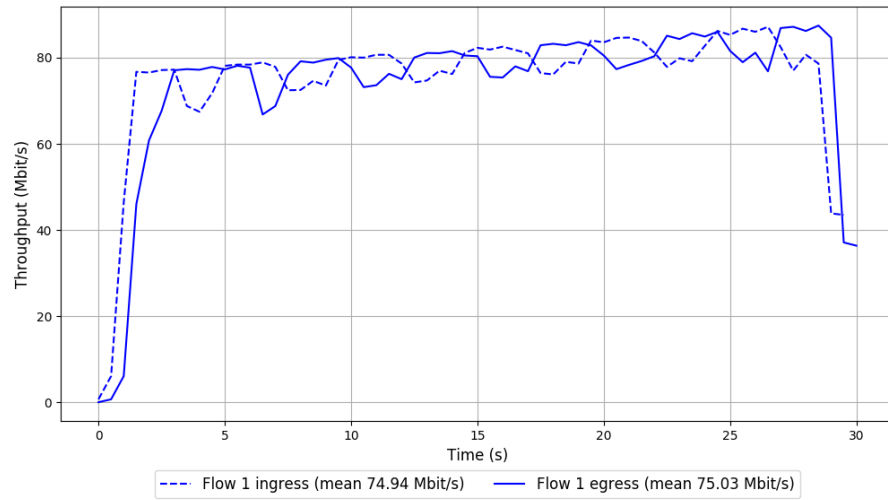


Run 7: Statistics of TCP Vegas

Start at: 2018-05-22 10:30:56  
End at: 2018-05-22 10:31:26  
Local clock offset: 0.172 ms  
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2018-05-22 12:35:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 75.03 Mbit/s  
95th percentile per-packet one-way delay: 87.761 ms  
Loss rate: 0.33%  
-- Flow 1:  
Average throughput: 75.03 Mbit/s  
95th percentile per-packet one-way delay: 87.761 ms  
Loss rate: 0.33%

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

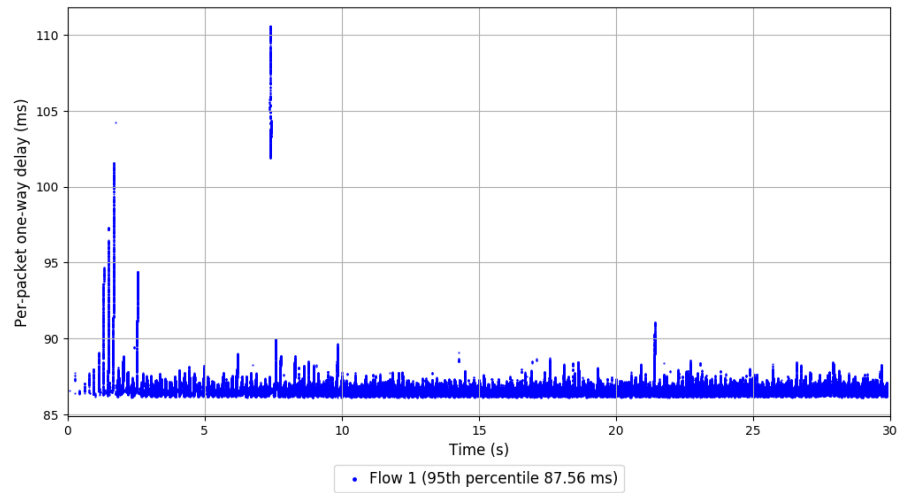
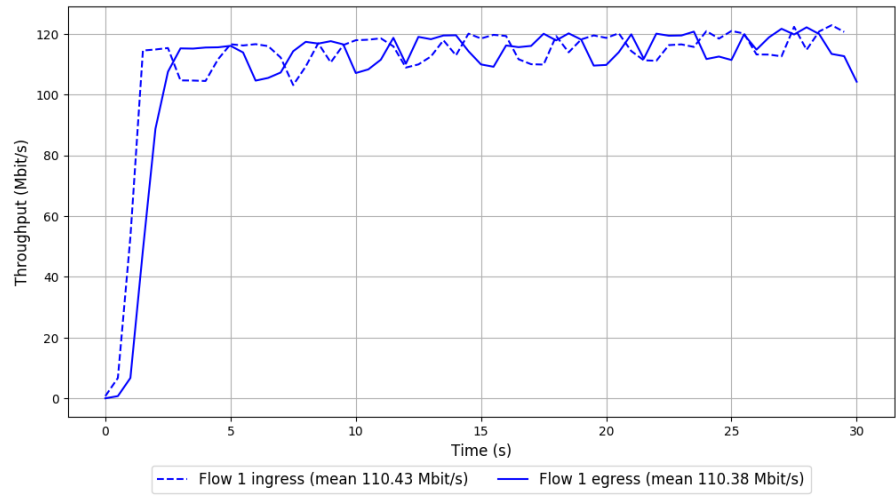


Run 8: Statistics of TCP Vegas

Start at: 2018-05-22 10:51:15  
End at: 2018-05-22 10:51:45  
Local clock offset: 0.184 ms  
Remote clock offset: -0.143 ms

# Below is generated by plot.py at 2018-05-22 12:35:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 110.38 Mbit/s  
95th percentile per-packet one-way delay: 87.560 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 110.38 Mbit/s  
95th percentile per-packet one-way delay: 87.560 ms  
Loss rate: 0.62%

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



Run 9: Statistics of TCP Vegas

Start at: 2018-05-22 11:11:29

End at: 2018-05-22 11:11:59

Local clock offset: 0.234 ms

Remote clock offset: 0.068 ms

# Below is generated by plot.py at 2018-05-22 12:35:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 56.82 Mbit/s

95th percentile per-packet one-way delay: 87.916 ms

Loss rate: 0.66%

-- Flow 1:

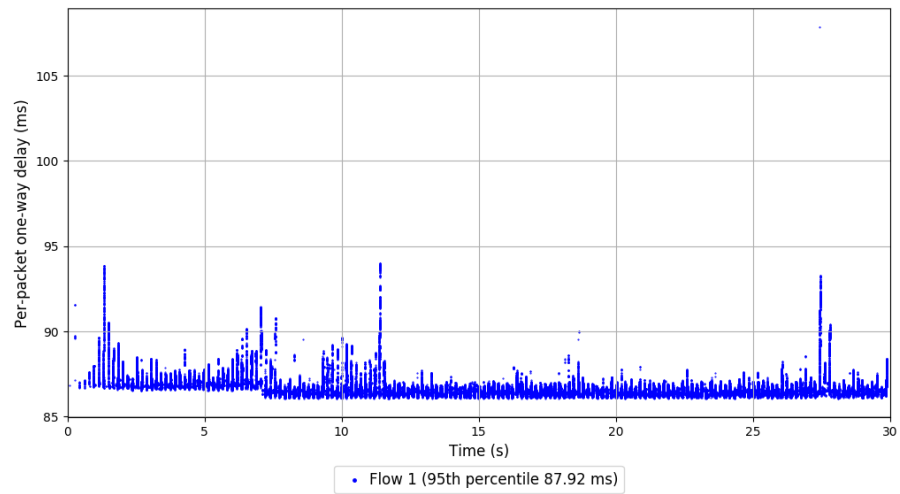
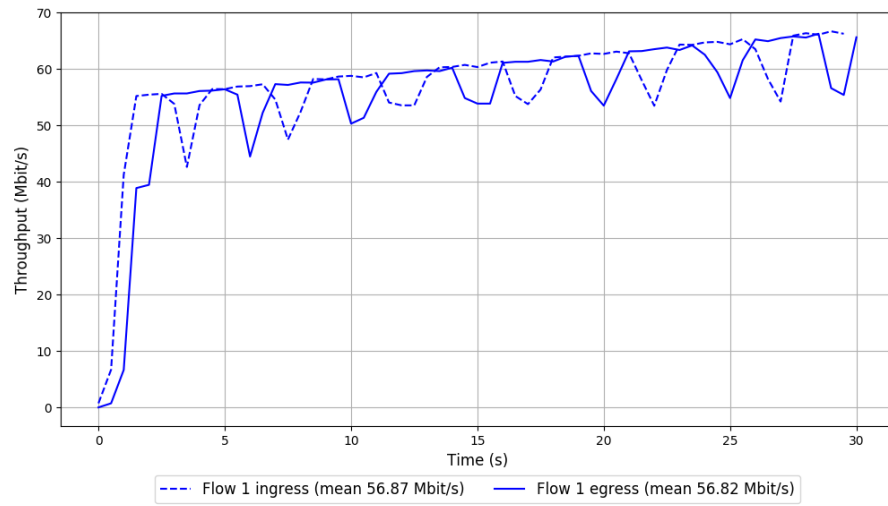
Average throughput: 56.82 Mbit/s

95th percentile per-packet one-way delay: 87.916 ms

Loss rate: 0.66%



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



Run 10: Statistics of TCP Vegas

Start at: 2018-05-22 11:31:26

End at: 2018-05-22 11:31:56

Local clock offset: 0.044 ms

Remote clock offset: 0.295 ms

# Below is generated by plot.py at 2018-05-22 12:35:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 46.90 Mbit/s

95th percentile per-packet one-way delay: 87.240 ms

Loss rate: 0.63%

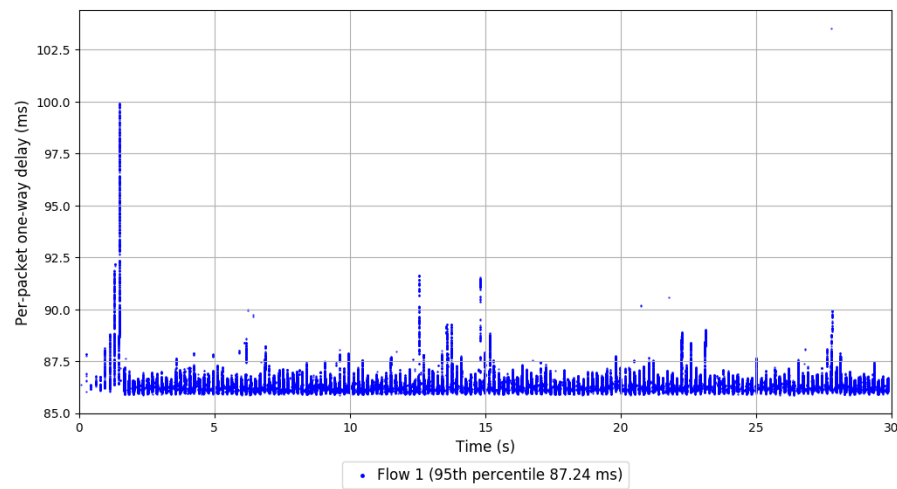
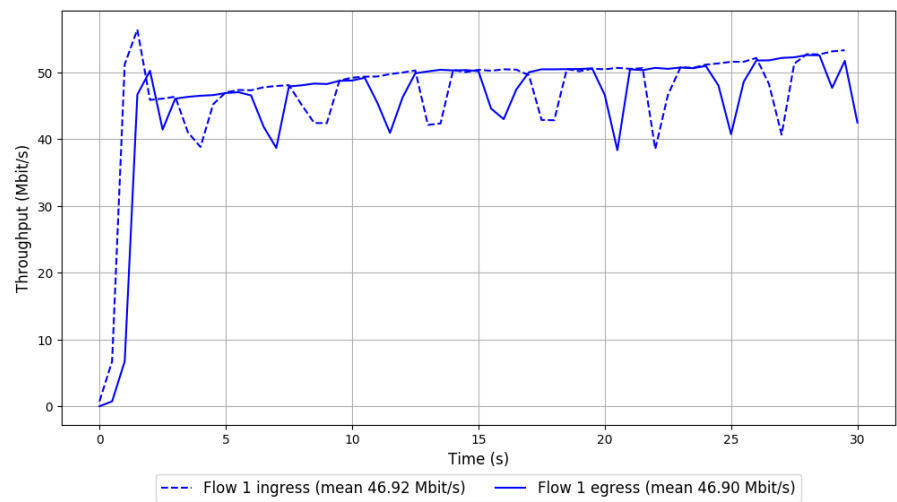
-- Flow 1:

Average throughput: 46.90 Mbit/s

95th percentile per-packet one-way delay: 87.240 ms

Loss rate: 0.63%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-05-22 08:19:49

End at: 2018-05-22 08:20:19

Local clock offset: 0.335 ms

Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2018-05-22 12:35:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 159.97 Mbit/s

95th percentile per-packet one-way delay: 112.794 ms

Loss rate: 1.46%

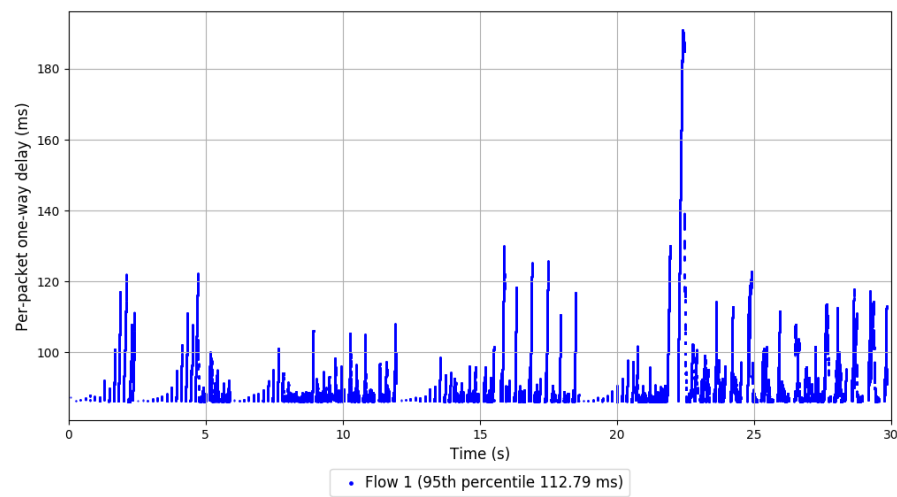
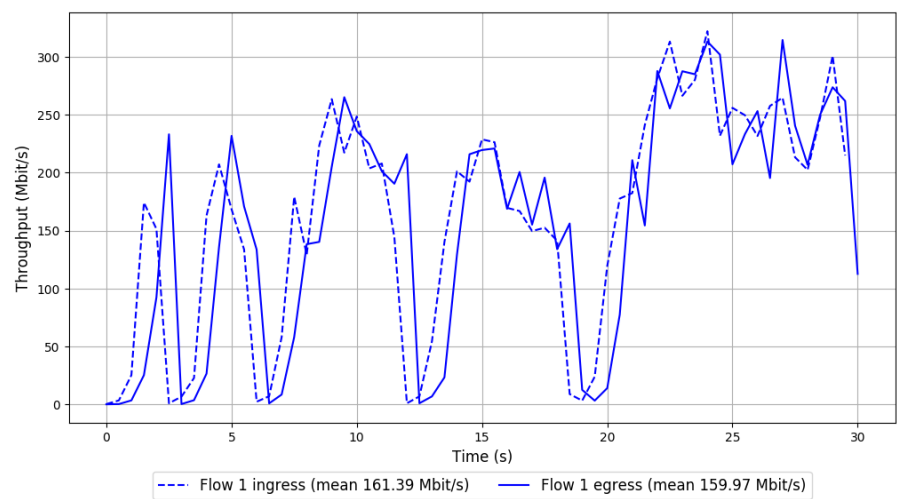
-- Flow 1:

Average throughput: 159.97 Mbit/s

95th percentile per-packet one-way delay: 112.794 ms

Loss rate: 1.46%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-05-22 08:39:48

End at: 2018-05-22 08:40:18

Local clock offset: 0.505 ms

Remote clock offset: 0.068 ms

# Below is generated by plot.py at 2018-05-22 12:36:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 222.75 Mbit/s

95th percentile per-packet one-way delay: 266.417 ms

Loss rate: 3.83%

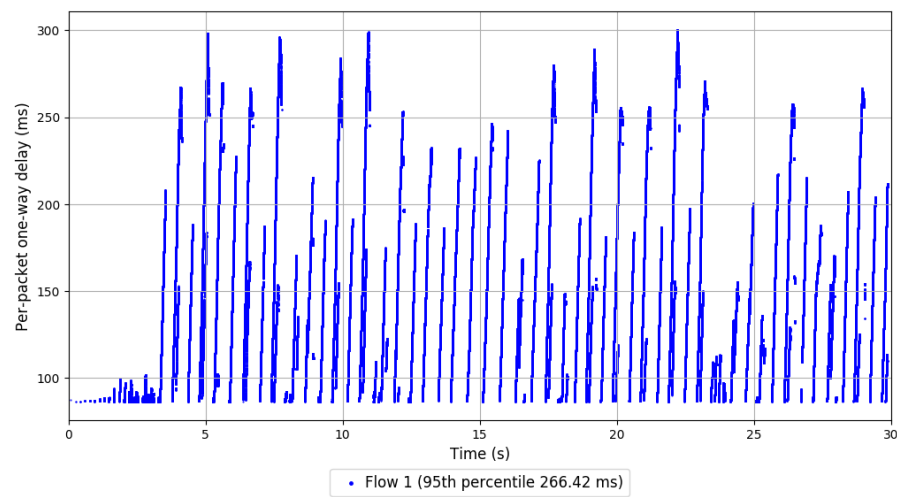
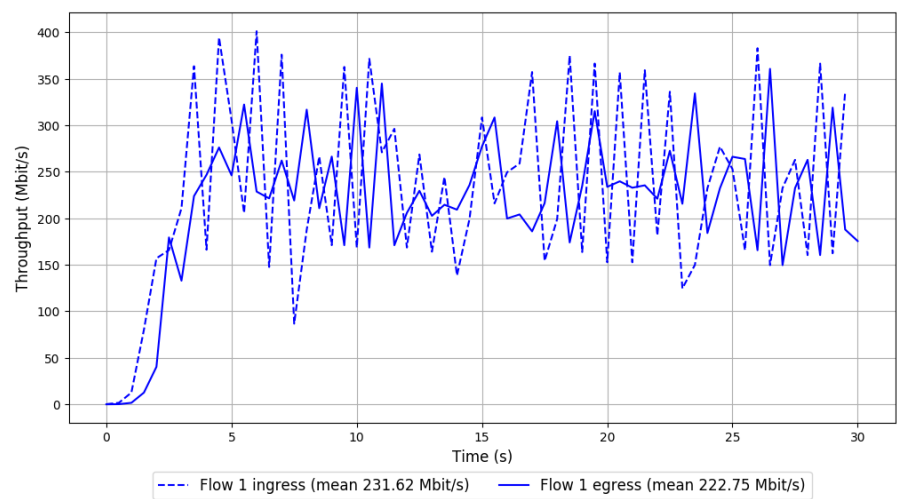
-- Flow 1:

Average throughput: 222.75 Mbit/s

95th percentile per-packet one-way delay: 266.417 ms

Loss rate: 3.83%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-05-22 09:00:09

End at: 2018-05-22 09:00:39

Local clock offset: -0.085 ms

Remote clock offset: 0.022 ms

# Below is generated by plot.py at 2018-05-22 12:36:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 182.06 Mbit/s

95th percentile per-packet one-way delay: 167.400 ms

Loss rate: 1.28%

-- Flow 1:

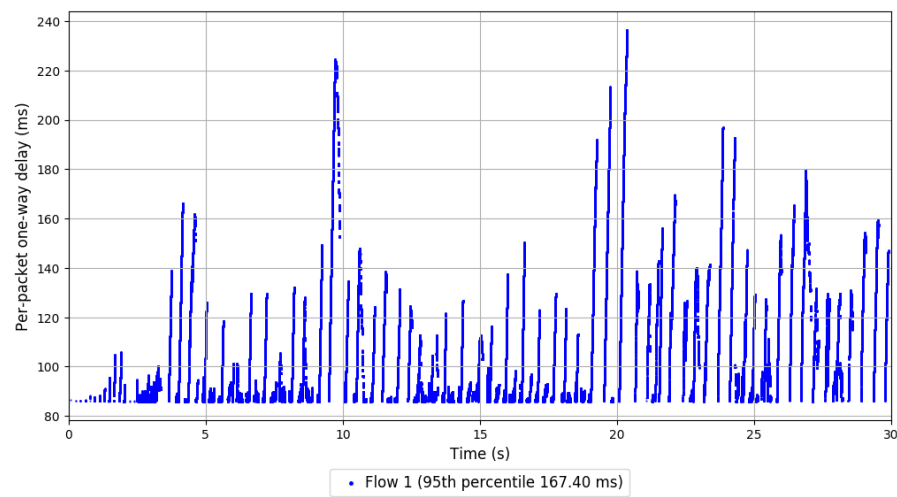
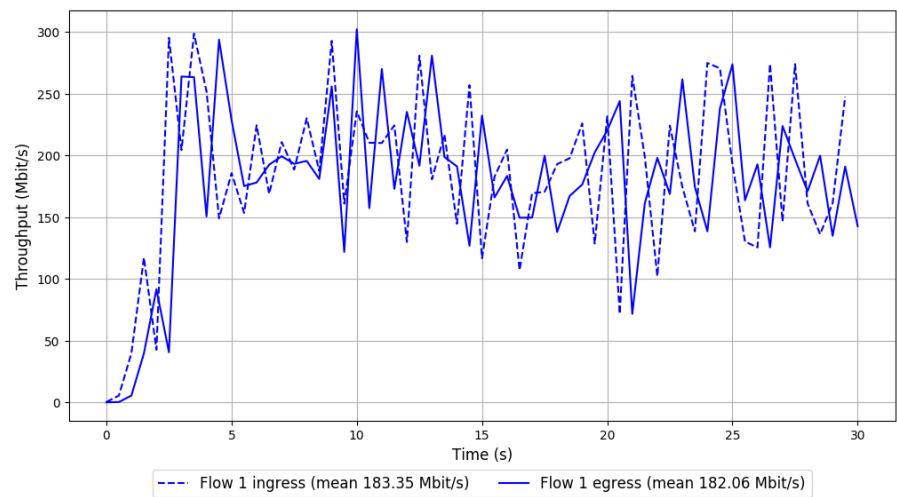
Average throughput: 182.06 Mbit/s

95th percentile per-packet one-way delay: 167.400 ms

Loss rate: 1.28%



Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-05-22 09:20:31

End at: 2018-05-22 09:21:01

Local clock offset: 0.256 ms

Remote clock offset: 0.056 ms

# Below is generated by plot.py at 2018-05-22 12:36:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 160.10 Mbit/s

95th percentile per-packet one-way delay: 104.410 ms

Loss rate: 0.84%

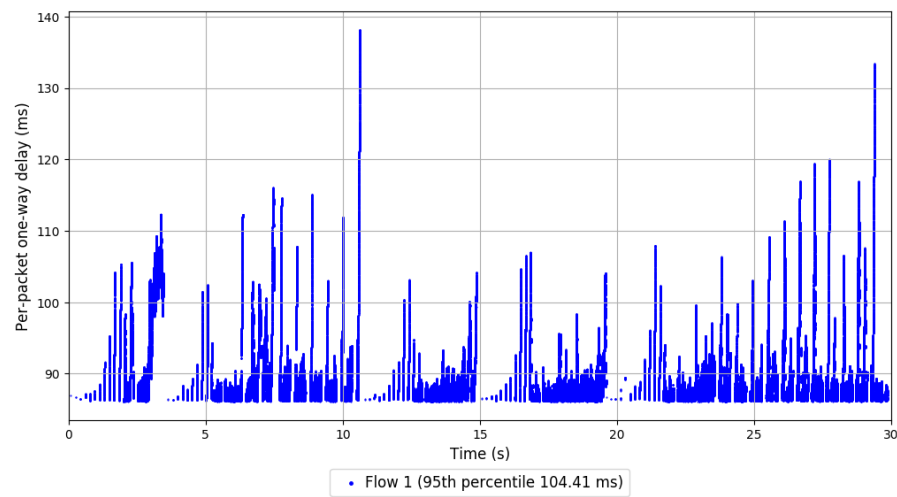
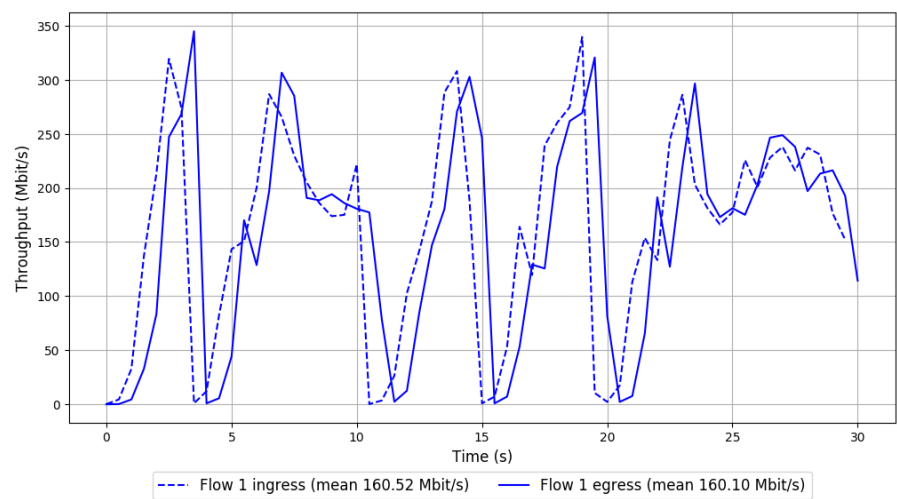
-- Flow 1:

Average throughput: 160.10 Mbit/s

95th percentile per-packet one-way delay: 104.410 ms

Loss rate: 0.84%

Run 4: Report of Verus — Data Link

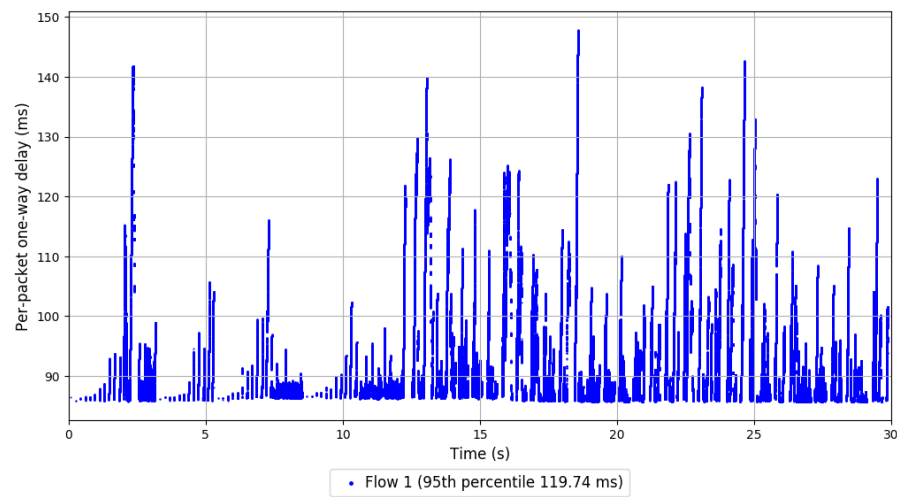
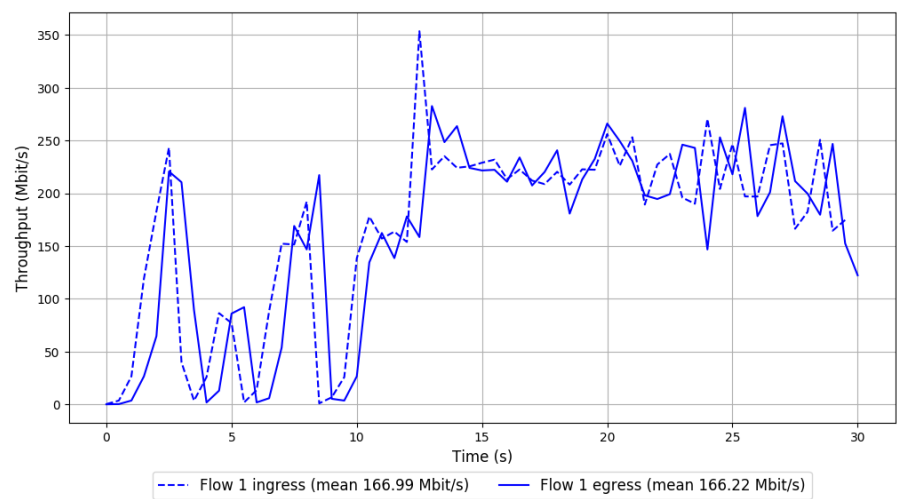


Run 5: Statistics of Verus

Start at: 2018-05-22 09:40:50  
End at: 2018-05-22 09:41:20  
Local clock offset: -0.149 ms  
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2018-05-22 12:36:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 166.22 Mbit/s  
95th percentile per-packet one-way delay: 119.742 ms  
Loss rate: 1.03%  
-- Flow 1:  
Average throughput: 166.22 Mbit/s  
95th percentile per-packet one-way delay: 119.742 ms  
Loss rate: 1.03%

Run 5: Report of Verus — Data Link

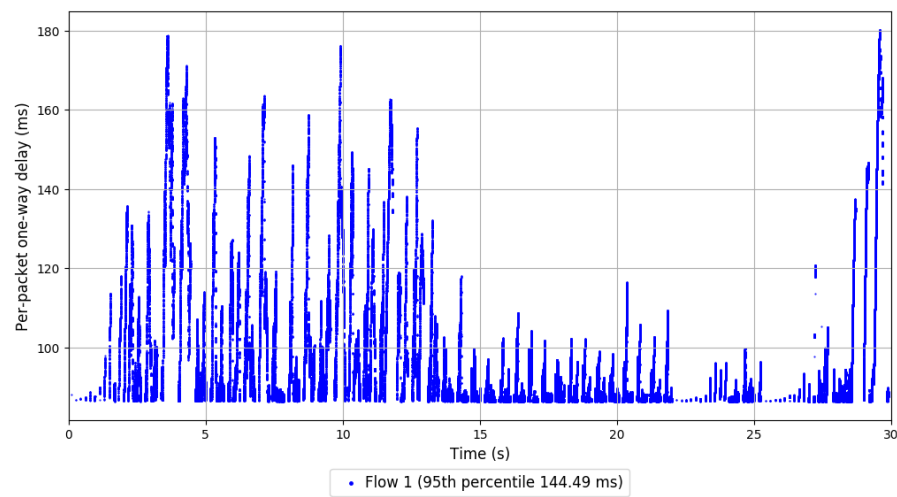
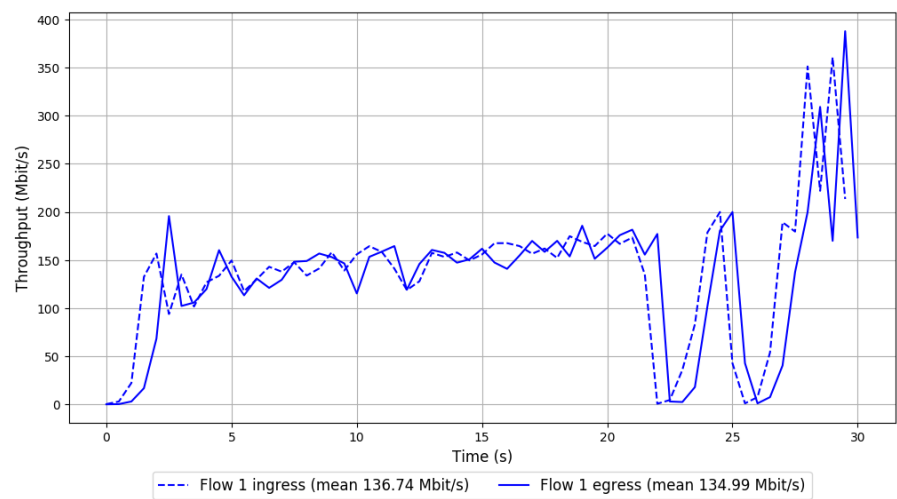


Run 6: Statistics of Verus

Start at: 2018-05-22 10:00:46  
End at: 2018-05-22 10:01:16  
Local clock offset: 0.384 ms  
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2018-05-22 12:36:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 134.99 Mbit/s  
95th percentile per-packet one-way delay: 144.490 ms  
Loss rate: 1.86%  
-- Flow 1:  
Average throughput: 134.99 Mbit/s  
95th percentile per-packet one-way delay: 144.490 ms  
Loss rate: 1.86%

Run 6: Report of Verus — Data Link



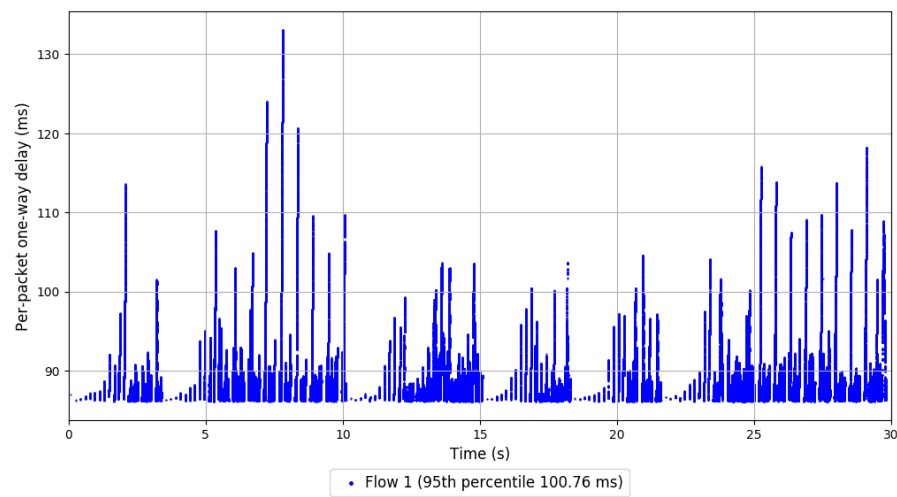
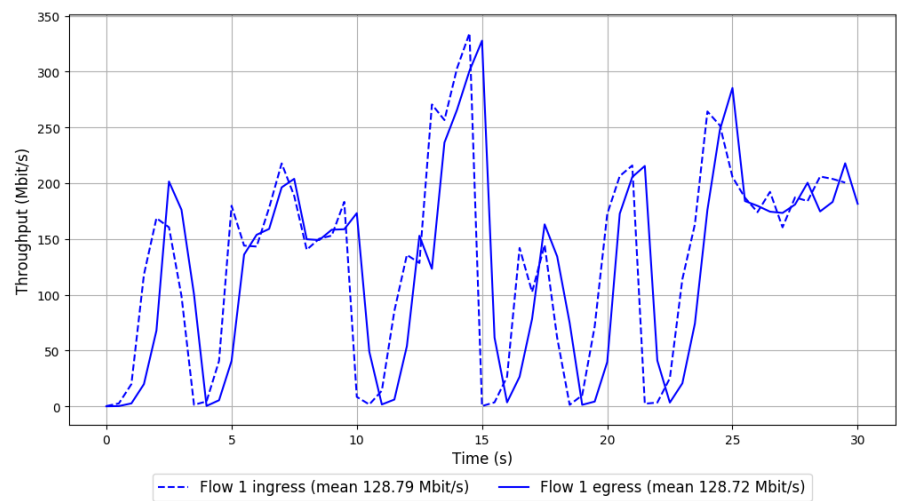
Run 7: Statistics of Verus

Start at: 2018-05-22 10:21:02  
End at: 2018-05-22 10:21:32  
Local clock offset: 0.113 ms  
Remote clock offset: -0.143 ms

# Below is generated by plot.py at 2018-05-22 12:36:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 128.72 Mbit/s  
95th percentile per-packet one-way delay: 100.764 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 128.72 Mbit/s  
95th percentile per-packet one-way delay: 100.764 ms  
Loss rate: 0.84%



Run 7: Report of Verus — Data Link

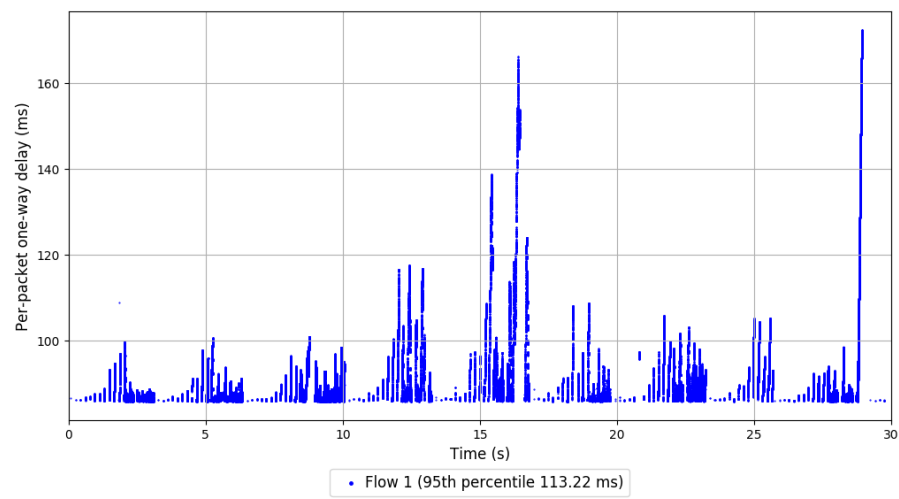
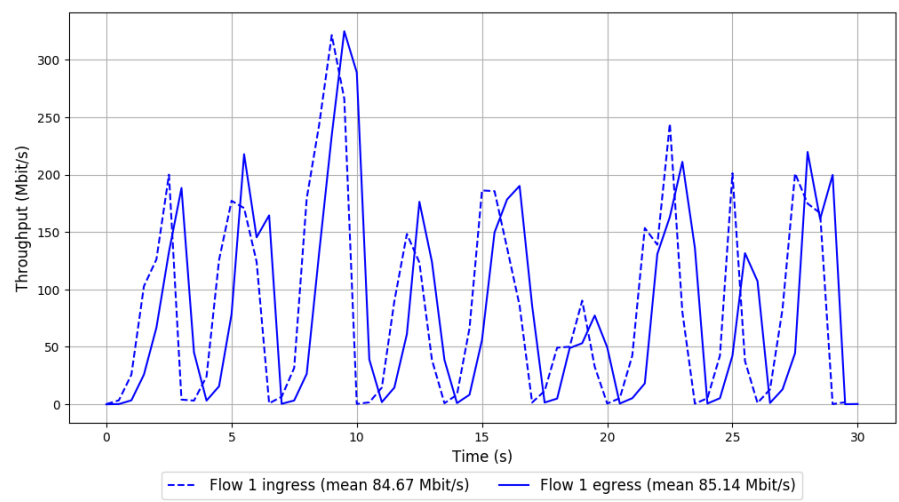


Run 8: Statistics of Verus

Start at: 2018-05-22 10:41:01  
End at: 2018-05-22 10:41:31  
Local clock offset: -0.122 ms  
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2018-05-22 12:36:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.14 Mbit/s  
95th percentile per-packet one-way delay: 113.220 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 85.14 Mbit/s  
95th percentile per-packet one-way delay: 113.220 ms  
Loss rate: 0.03%

Run 8: Report of Verus — Data Link

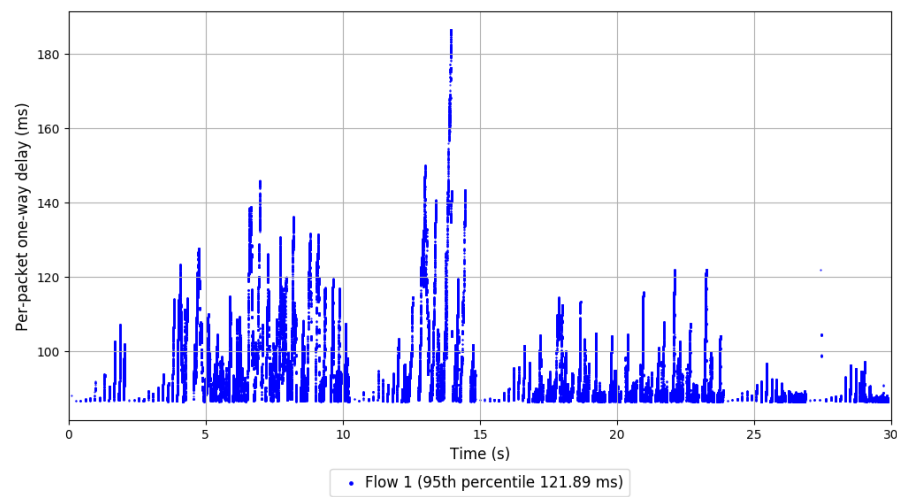
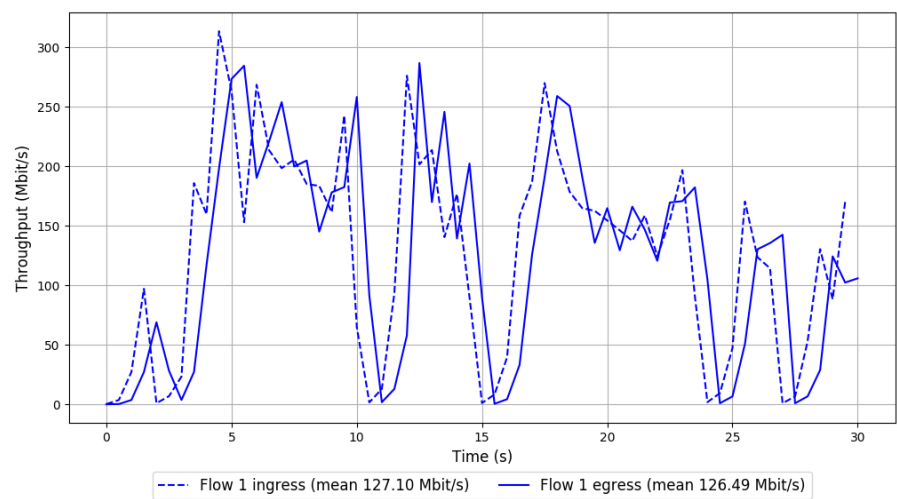


Run 9: Statistics of Verus

Start at: 2018-05-22 11:01:18  
End at: 2018-05-22 11:01:48  
Local clock offset: 0.47 ms  
Remote clock offset: -0.148 ms

# Below is generated by plot.py at 2018-05-22 12:37:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 126.49 Mbit/s  
95th percentile per-packet one-way delay: 121.890 ms  
Loss rate: 1.06%  
-- Flow 1:  
Average throughput: 126.49 Mbit/s  
95th percentile per-packet one-way delay: 121.890 ms  
Loss rate: 1.06%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

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

End at: 2018-05-22 11:22:00

Local clock offset: 0.403 ms

Remote clock offset: 0.129 ms

# Below is generated by plot.py at 2018-05-22 12:37:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 167.35 Mbit/s

95th percentile per-packet one-way delay: 209.931 ms

Loss rate: 0.75%

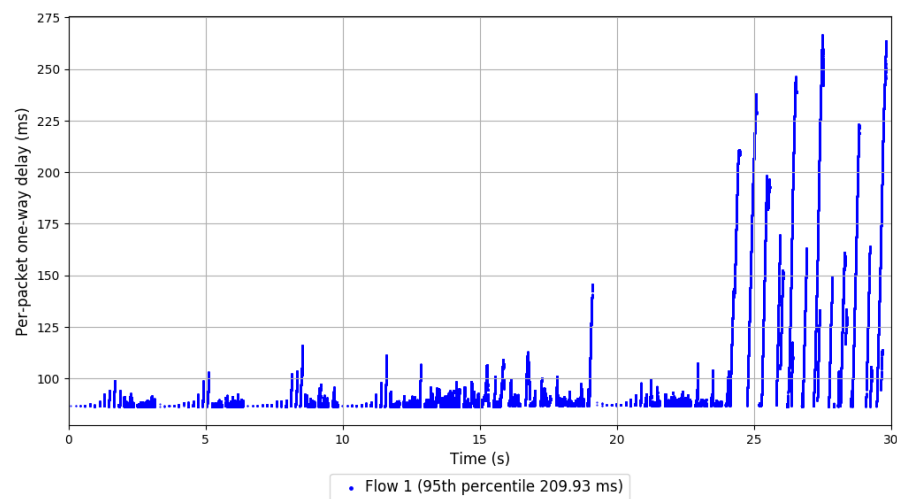
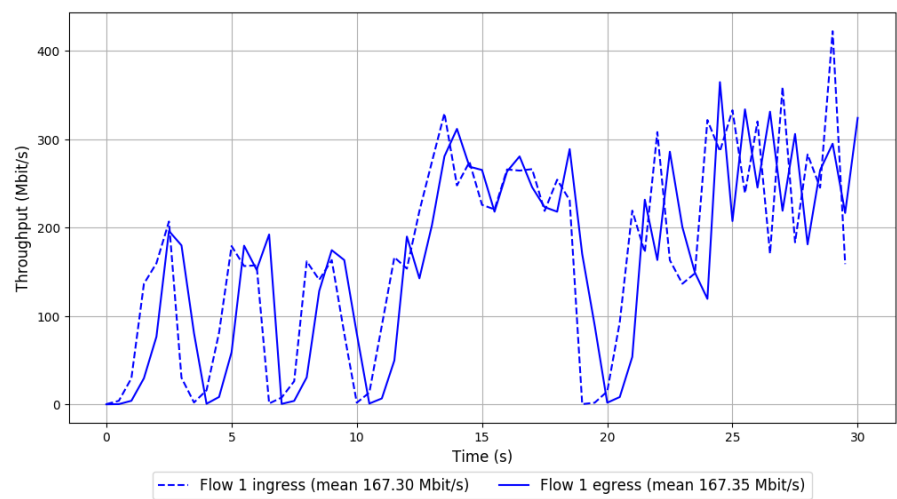
-- Flow 1:

Average throughput: 167.35 Mbit/s

95th percentile per-packet one-way delay: 209.931 ms

Loss rate: 0.75%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-05-22 08:27:05

End at: 2018-05-22 08:27:35

Local clock offset: 0.287 ms

Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2018-05-22 12:38:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 186.22 Mbit/s

95th percentile per-packet one-way delay: 87.244 ms

Loss rate: 0.94%

-- Flow 1:

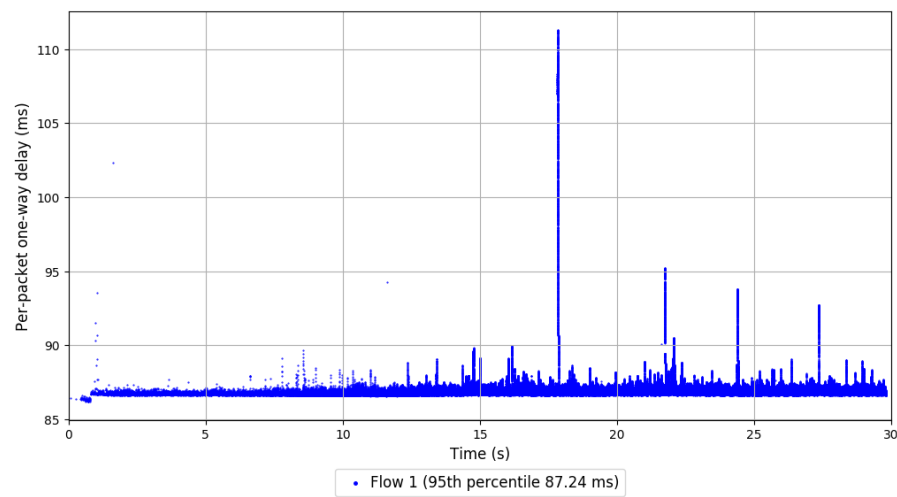
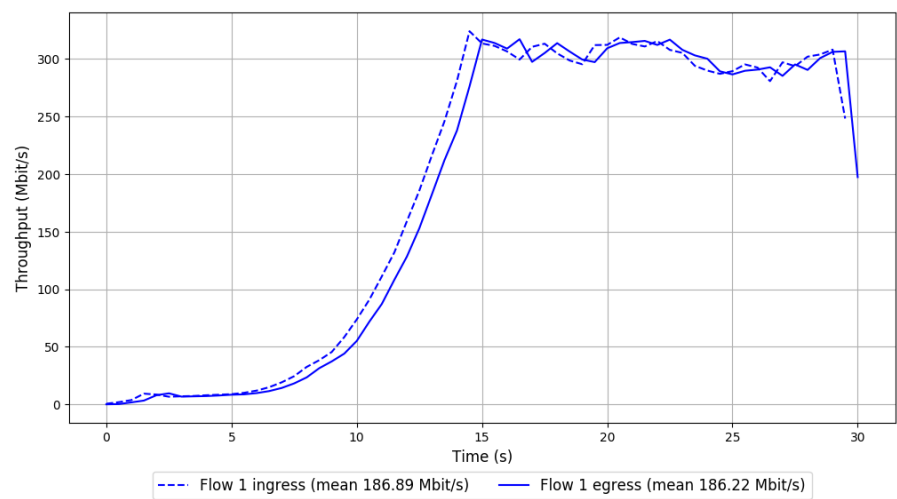
Average throughput: 186.22 Mbit/s

95th percentile per-packet one-way delay: 87.244 ms

Loss rate: 0.94%



Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-05-22 08:47:07

End at: 2018-05-22 08:47:37

Local clock offset: 0.186 ms

Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2018-05-22 12:39:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 247.13 Mbit/s

95th percentile per-packet one-way delay: 87.410 ms

Loss rate: 0.65%

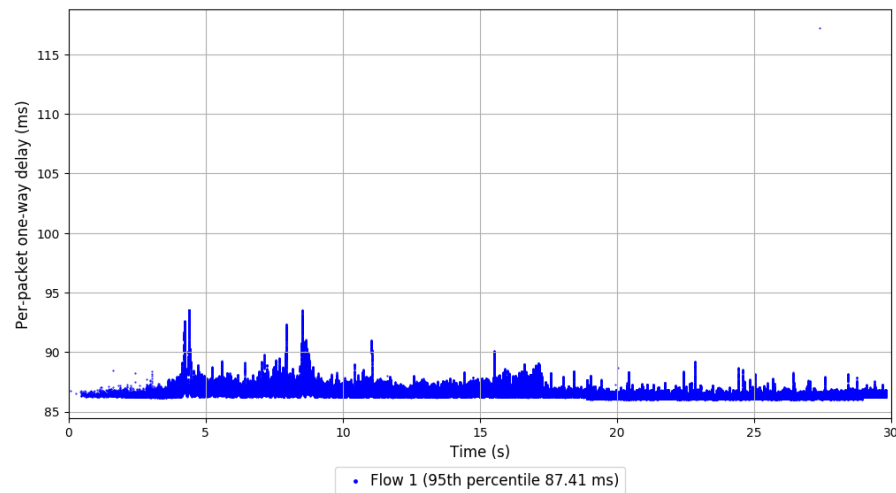
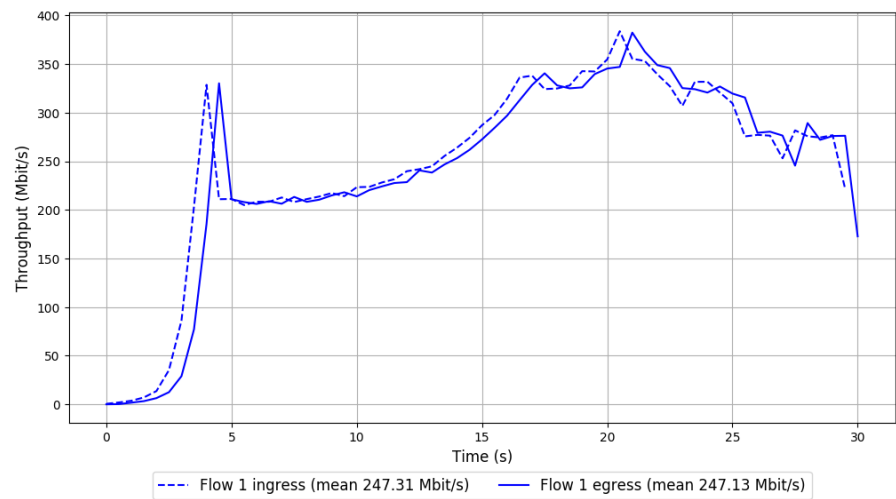
-- Flow 1:

Average throughput: 247.13 Mbit/s

95th percentile per-packet one-way delay: 87.410 ms

Loss rate: 0.65%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-05-22 09:07:28

End at: 2018-05-22 09:07:58

Local clock offset: 0.036 ms

Remote clock offset: 0.059 ms

# Below is generated by plot.py at 2018-05-22 12:39:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 228.72 Mbit/s

95th percentile per-packet one-way delay: 86.417 ms

Loss rate: 0.64%

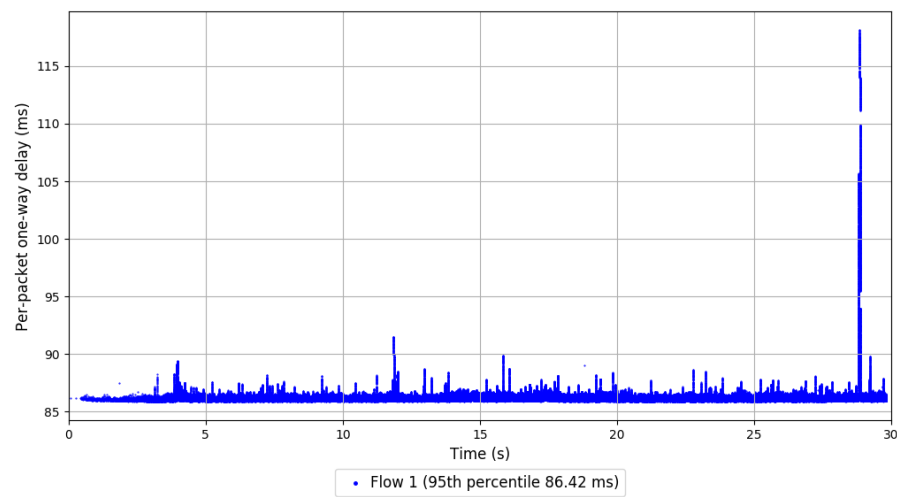
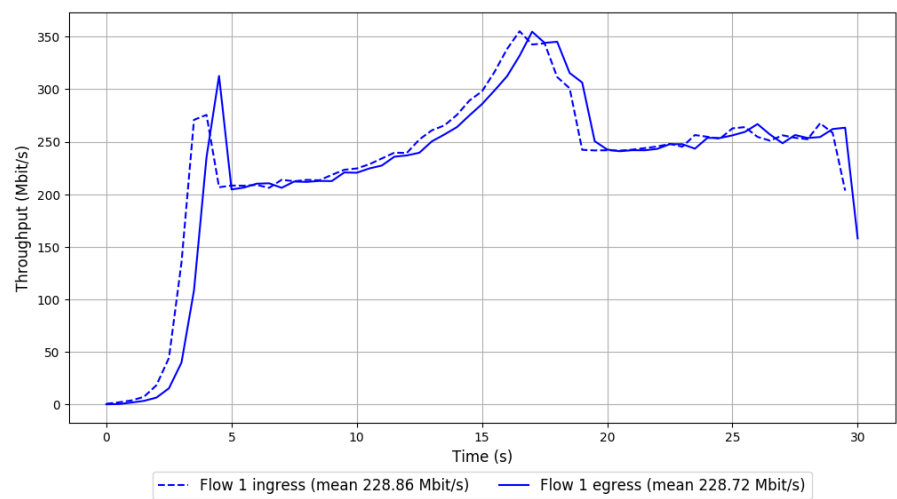
-- Flow 1:

Average throughput: 228.72 Mbit/s

95th percentile per-packet one-way delay: 86.417 ms

Loss rate: 0.64%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-05-22 09:27:47

End at: 2018-05-22 09:28:17

Local clock offset: 0.166 ms

Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2018-05-22 12:40:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 247.92 Mbit/s

95th percentile per-packet one-way delay: 87.042 ms

Loss rate: 0.90%

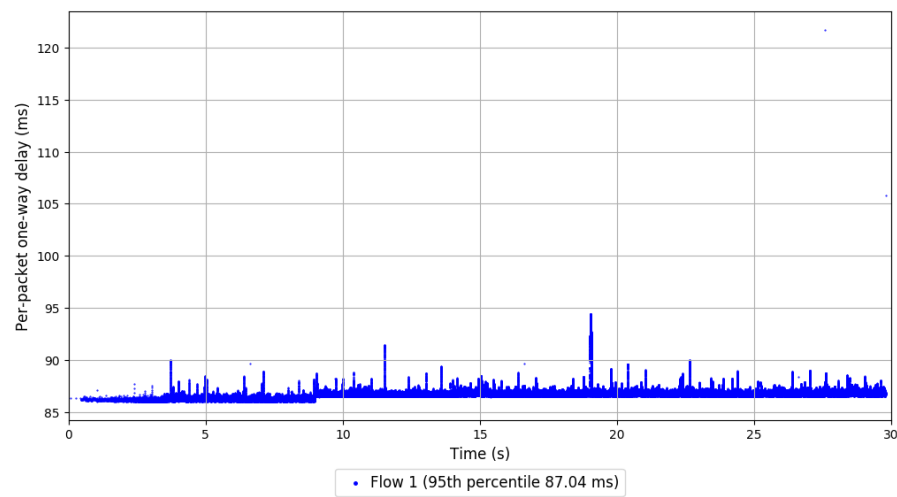
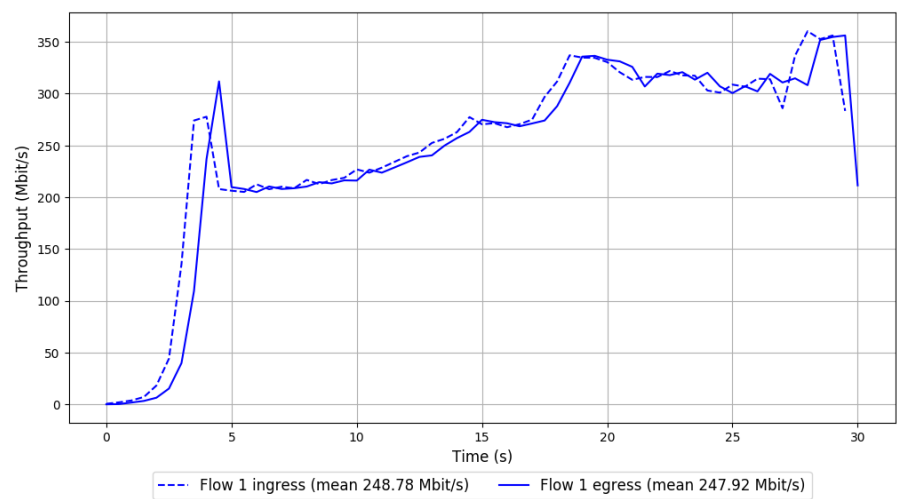
-- Flow 1:

Average throughput: 247.92 Mbit/s

95th percentile per-packet one-way delay: 87.042 ms

Loss rate: 0.90%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-05-22 09:48:07

End at: 2018-05-22 09:48:37

Local clock offset: 0.16 ms

Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2018-05-22 12:40:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 248.01 Mbit/s

95th percentile per-packet one-way delay: 87.042 ms

Loss rate: 0.66%

-- Flow 1:

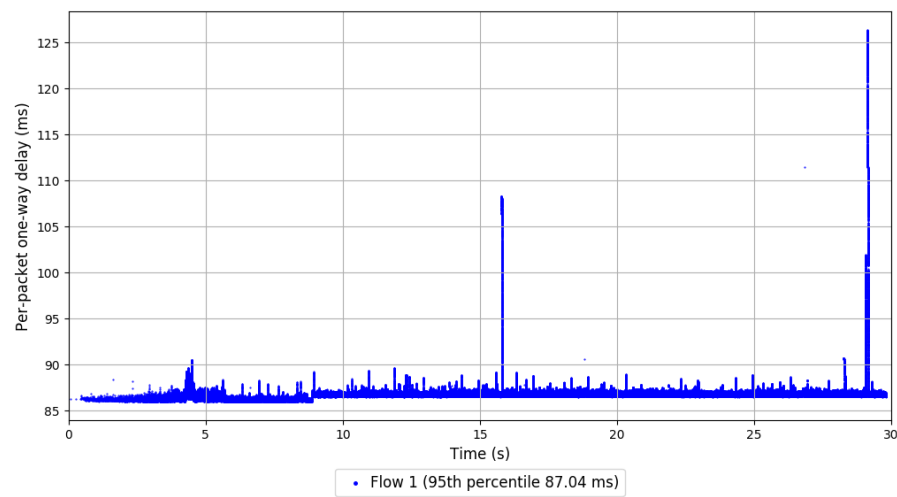
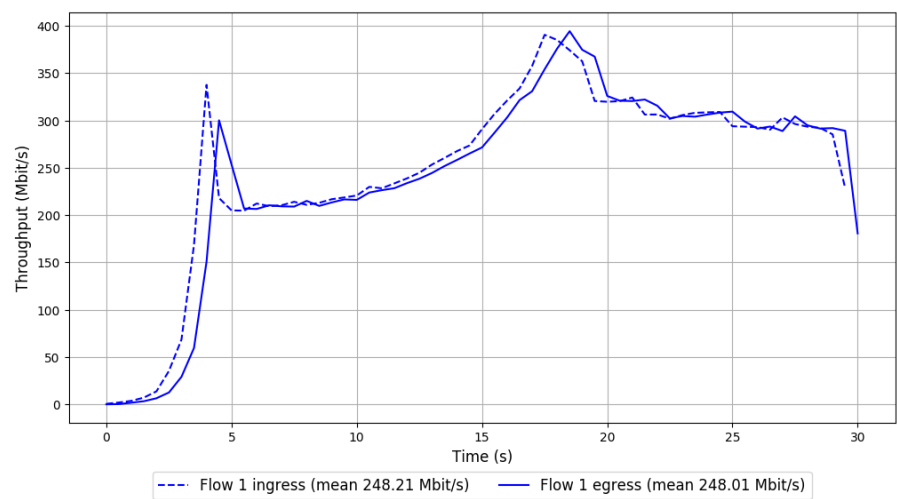
Average throughput: 248.01 Mbit/s

95th percentile per-packet one-way delay: 87.042 ms

Loss rate: 0.66%



Run 5: Report of PCC-Vivace — Data Link

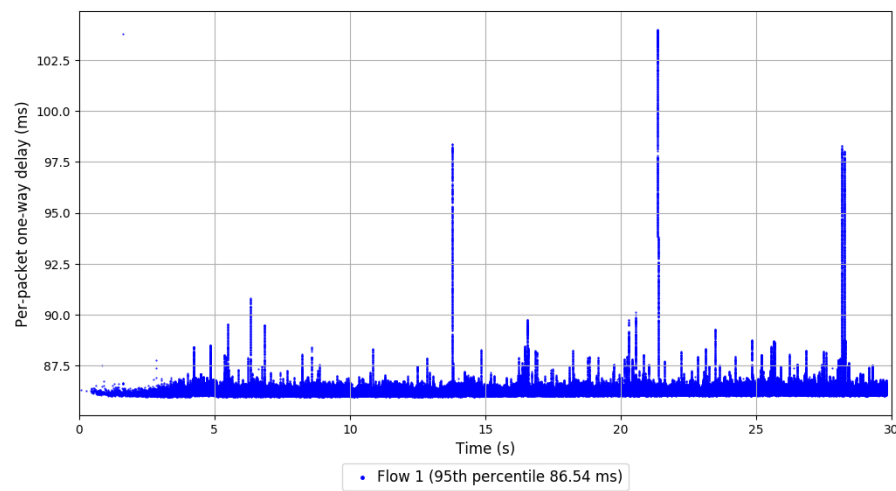
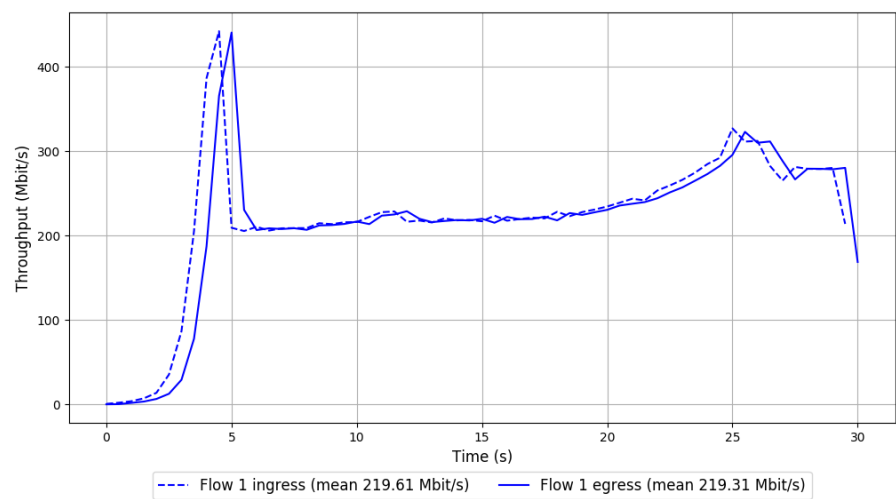


Run 6: Statistics of PCC-Vivace

Start at: 2018-05-22 10:08:01  
End at: 2018-05-22 10:08:31  
Local clock offset: 0.093 ms  
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2018-05-22 12:40:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 219.31 Mbit/s  
95th percentile per-packet one-way delay: 86.543 ms  
Loss rate: 0.71%  
-- Flow 1:  
Average throughput: 219.31 Mbit/s  
95th percentile per-packet one-way delay: 86.543 ms  
Loss rate: 0.71%

Run 6: Report of PCC-Vivace — Data Link

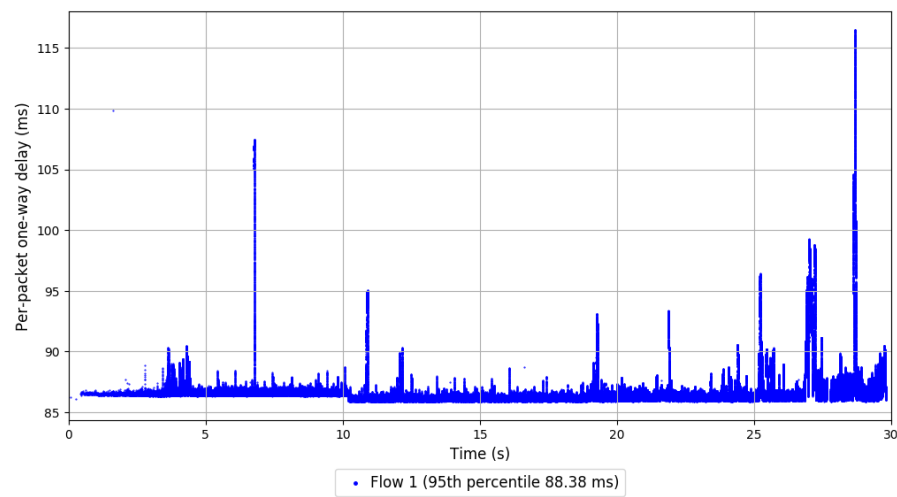
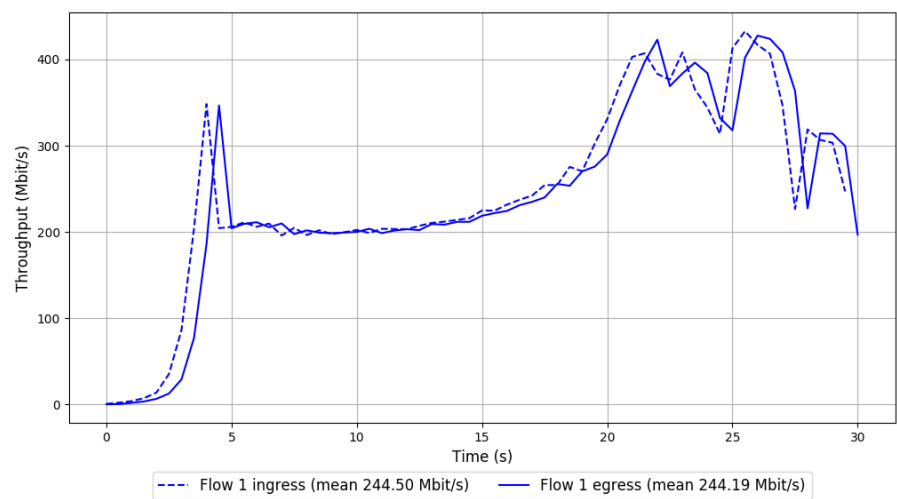


Run 7: Statistics of PCC-Vivace

Start at: 2018-05-22 10:28:16  
End at: 2018-05-22 10:28:46  
Local clock offset: -0.054 ms  
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2018-05-22 12:41:11  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 244.19 Mbit/s  
95th percentile per-packet one-way delay: 88.383 ms  
Loss rate: 0.71%  
-- Flow 1:  
Average throughput: 244.19 Mbit/s  
95th percentile per-packet one-way delay: 88.383 ms  
Loss rate: 0.71%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-05-22 10:48:12

End at: 2018-05-22 10:48:42

Local clock offset: 0.024 ms

Remote clock offset: -0.18 ms

# Below is generated by plot.py at 2018-05-22 12:41:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 247.48 Mbit/s

95th percentile per-packet one-way delay: 86.936 ms

Loss rate: 0.71%

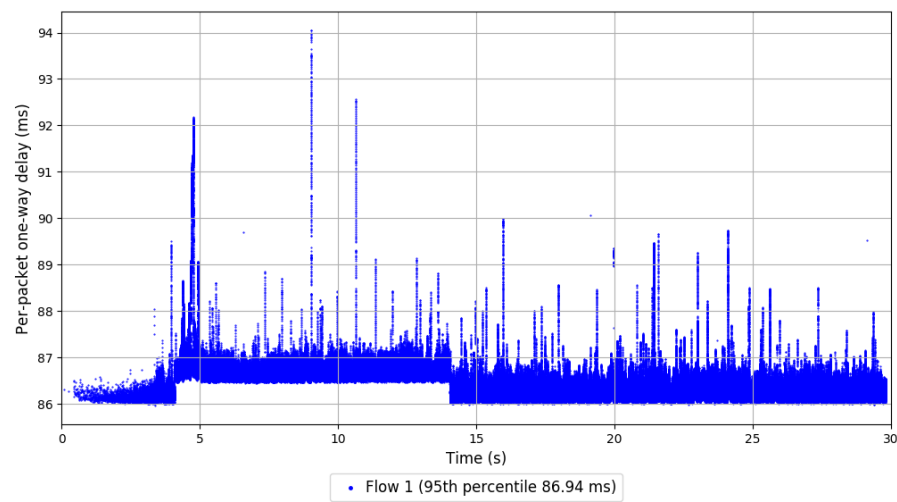
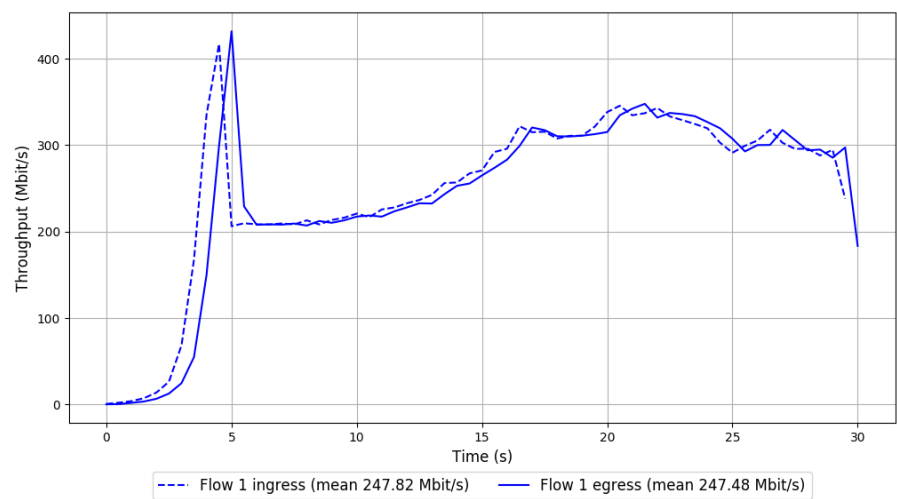
-- Flow 1:

Average throughput: 247.48 Mbit/s

95th percentile per-packet one-way delay: 86.936 ms

Loss rate: 0.71%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-05-22 11:08:32

End at: 2018-05-22 11:09:02

Local clock offset: 0.025 ms

Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2018-05-22 12:41:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 217.35 Mbit/s

95th percentile per-packet one-way delay: 86.562 ms

Loss rate: 0.49%

-- Flow 1:

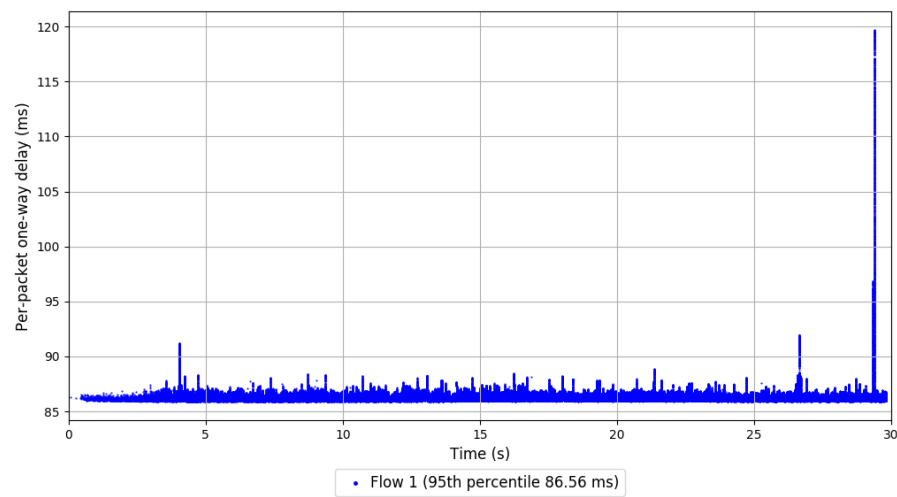
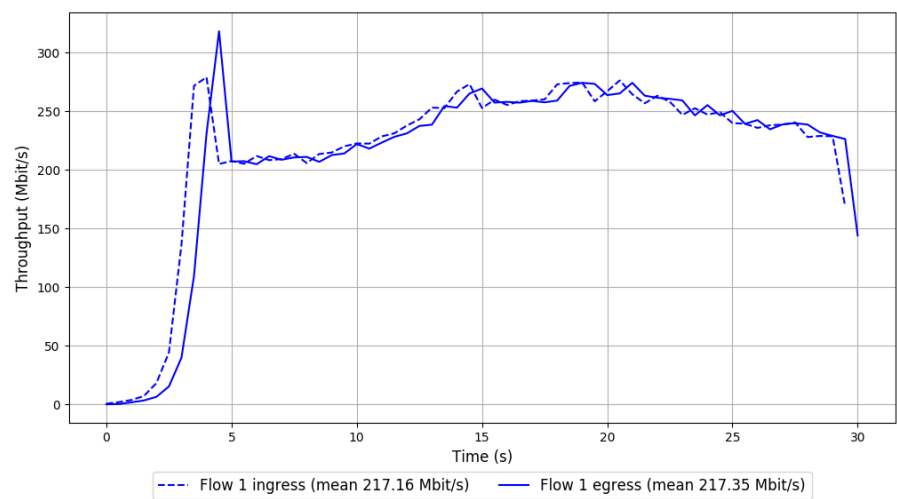
Average throughput: 217.35 Mbit/s

95th percentile per-packet one-way delay: 86.562 ms

Loss rate: 0.49%



Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-05-22 11:28:46

End at: 2018-05-22 11:29:16

Local clock offset: -0.047 ms

Remote clock offset: 0.232 ms

# Below is generated by plot.py at 2018-05-22 12:41:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 292.86 Mbit/s

95th percentile per-packet one-way delay: 86.817 ms

Loss rate: 0.90%

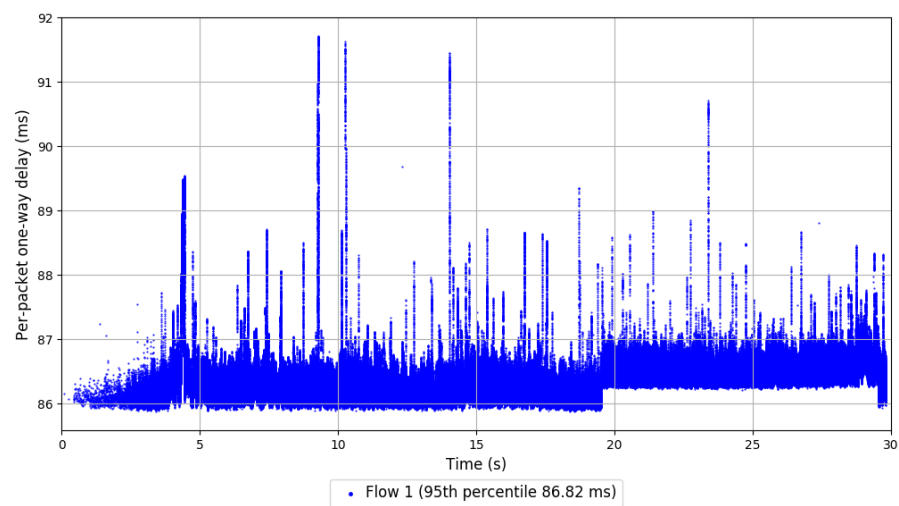
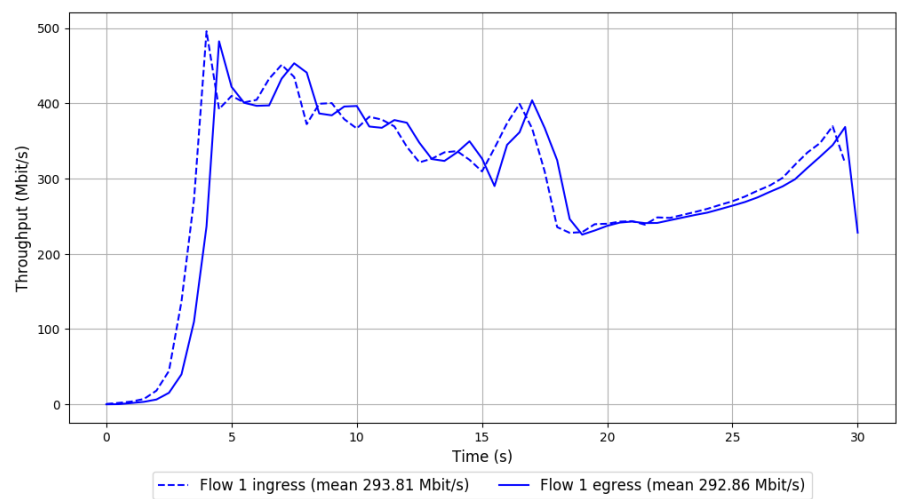
-- Flow 1:

Average throughput: 292.86 Mbit/s

95th percentile per-packet one-way delay: 86.817 ms

Loss rate: 0.90%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

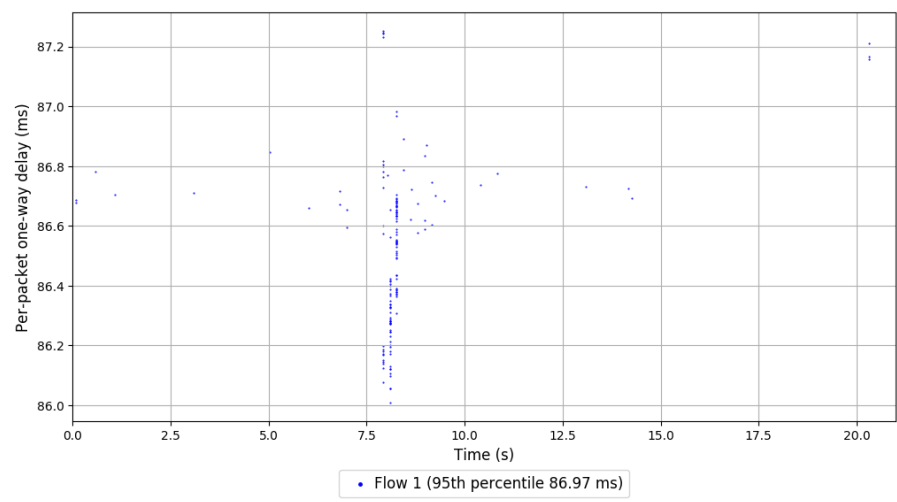
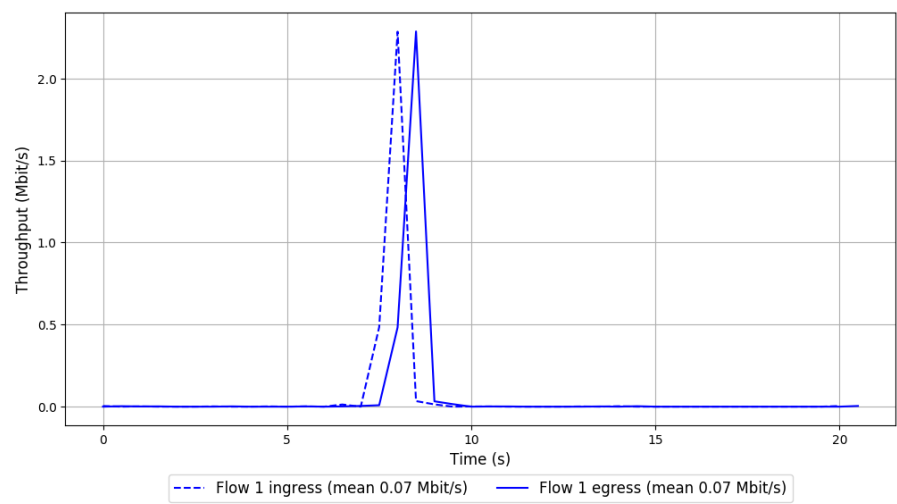
Start at: 2018-05-22 08:16:09

End at: 2018-05-22 08:16:39

Local clock offset: 0.208 ms

Remote clock offset: 0.063 ms

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-05-22 08:36:10

End at: 2018-05-22 08:36:40

Local clock offset: 0.356 ms

Remote clock offset: 0.029 ms

# Below is generated by plot.py at 2018-05-22 12:41:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 87.241 ms

Loss rate: 0.00%

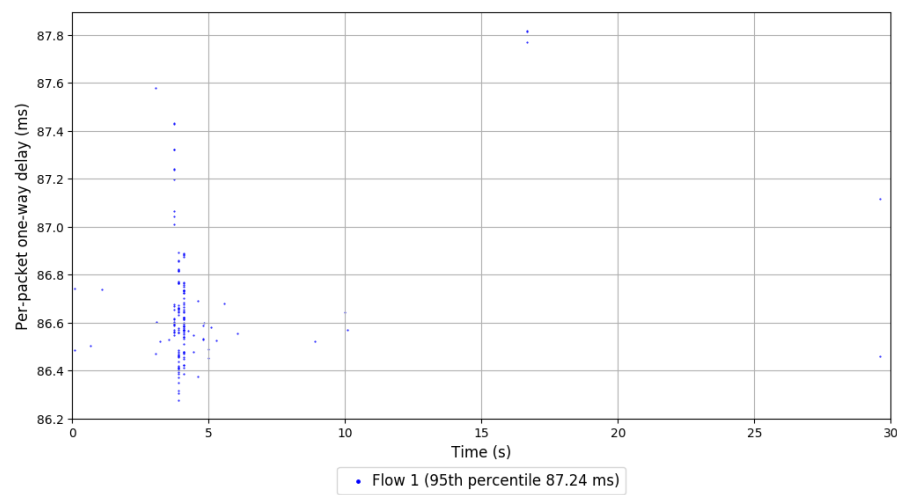
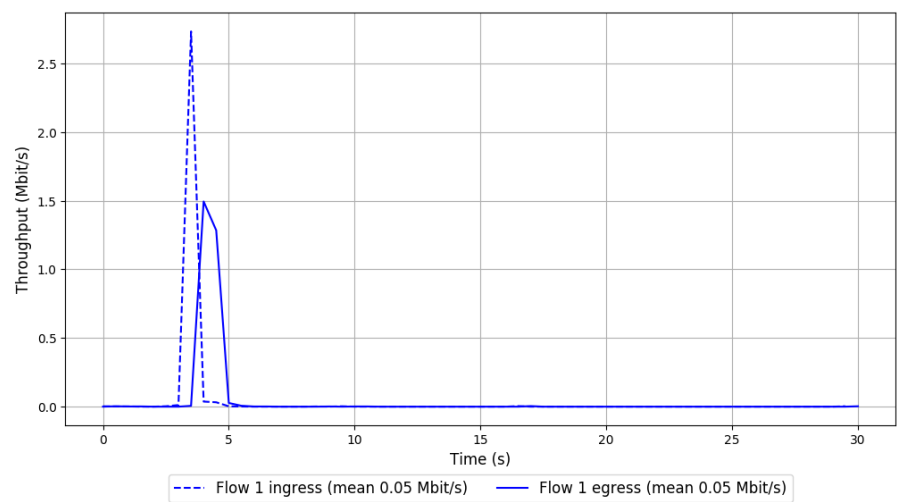
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 87.241 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-05-22 08:56:25

End at: 2018-05-22 08:56:55

Local clock offset: 0.289 ms

Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2018-05-22 12:41:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 87.406 ms

Loss rate: 0.00%

-- Flow 1:

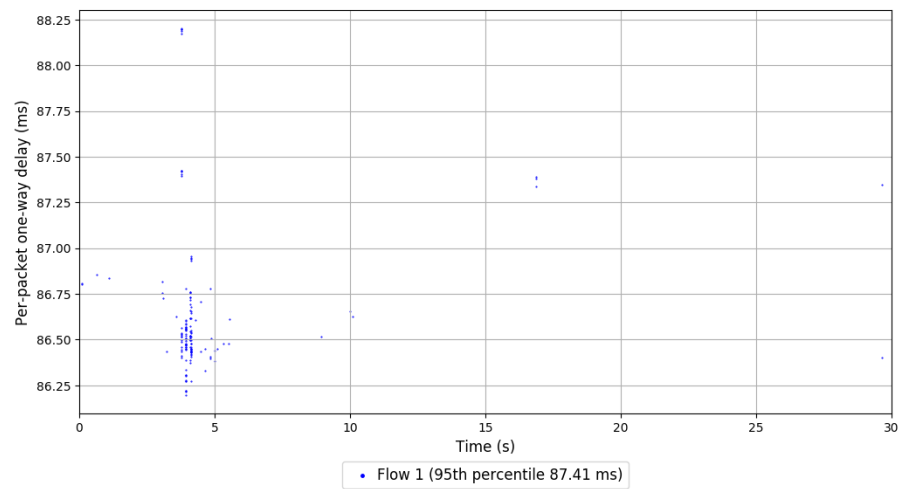
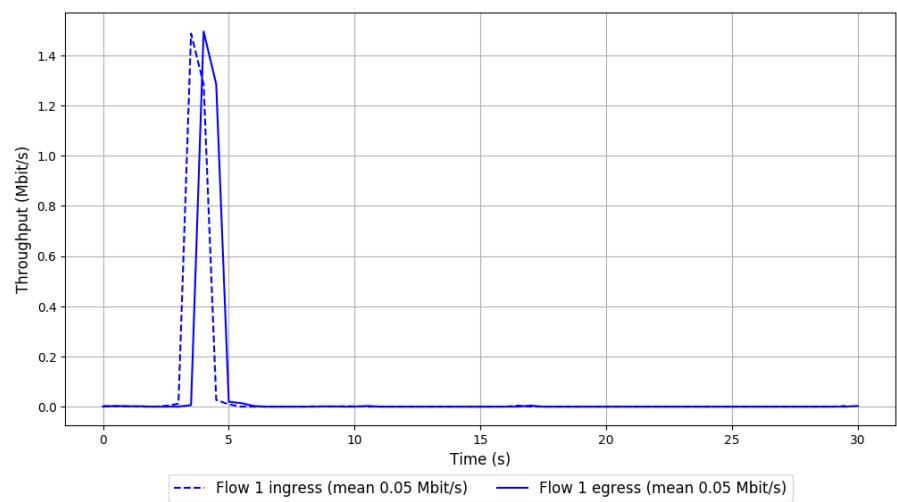
Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 87.406 ms

Loss rate: 0.00%



Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-05-22 09:16:50

End at: 2018-05-22 09:17:20

Local clock offset: 0.201 ms

Remote clock offset: 0.037 ms

# Below is generated by plot.py at 2018-05-22 12:41:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.973 ms

Loss rate: 0.00%

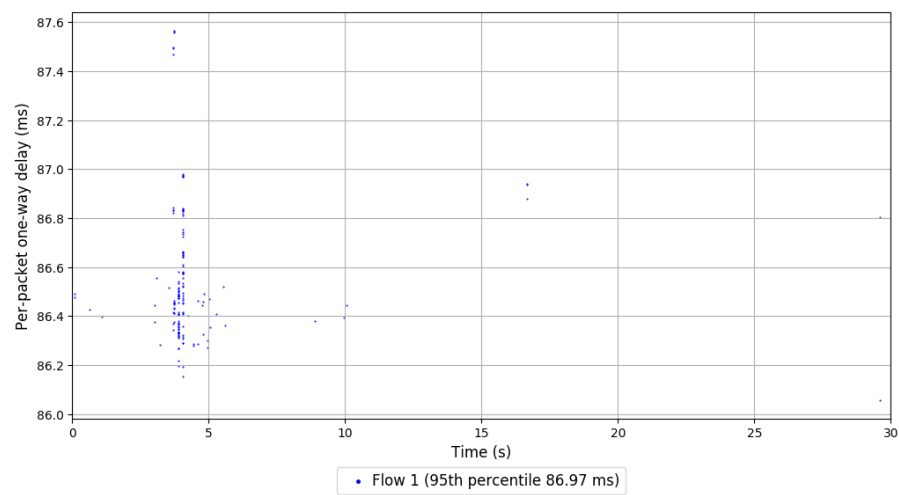
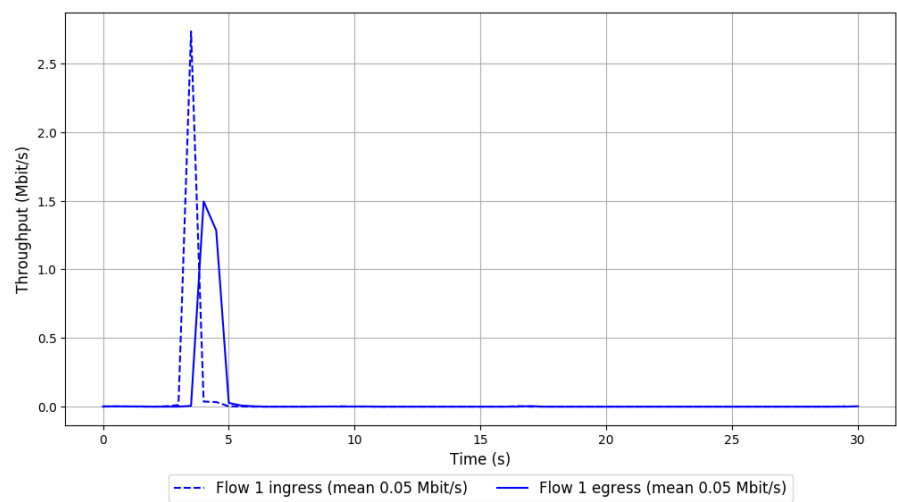
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.973 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-05-22 09:37:08

End at: 2018-05-22 09:37:38

Local clock offset: 0.047 ms

Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2018-05-22 12:41:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.852 ms

Loss rate: 0.00%

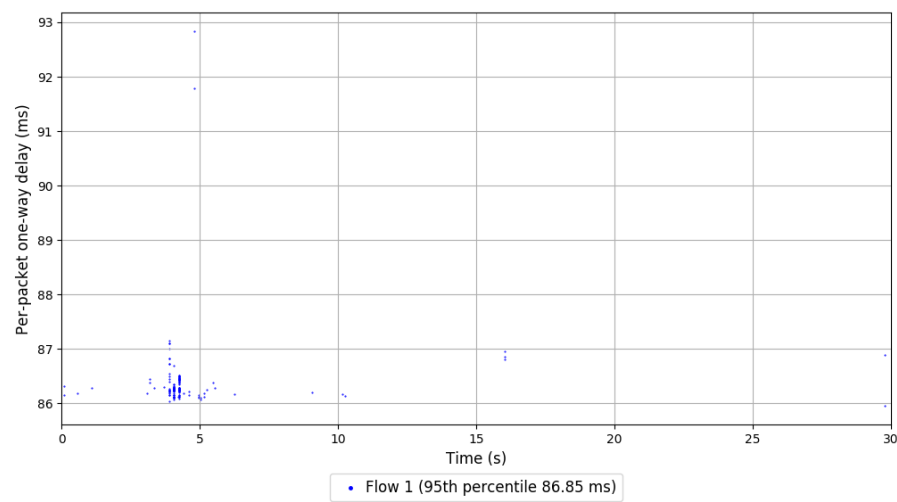
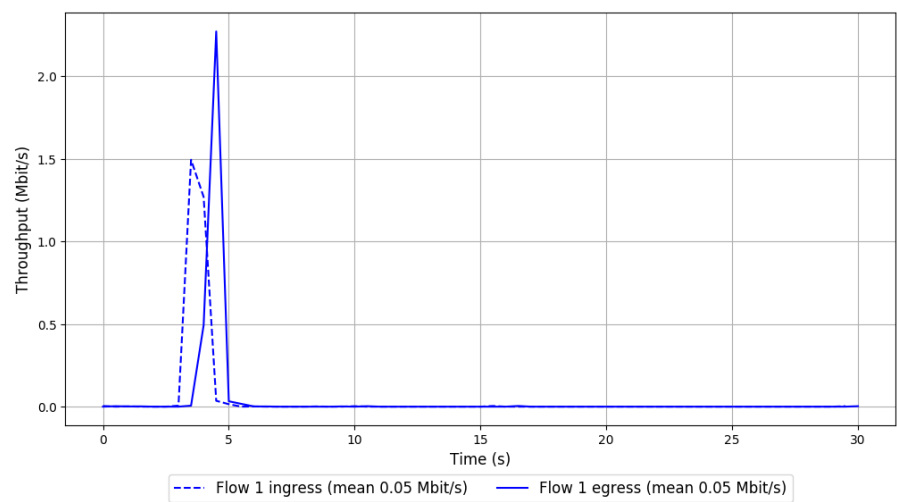
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.852 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

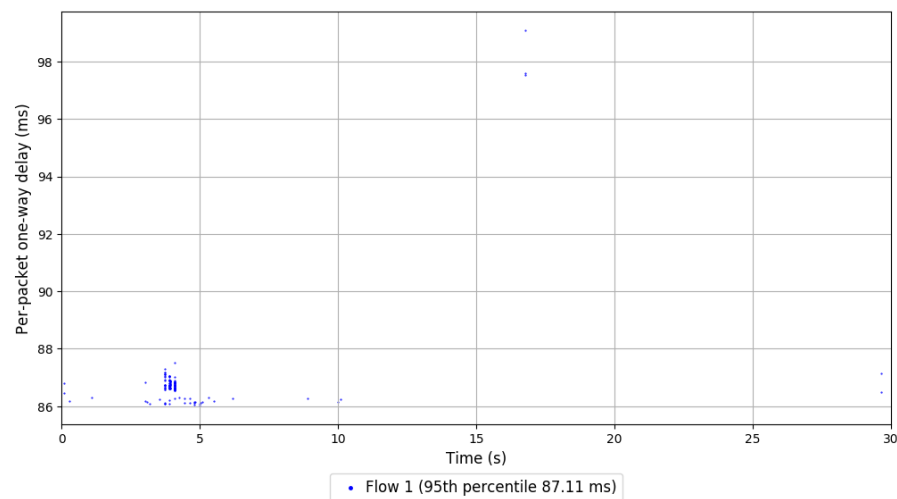
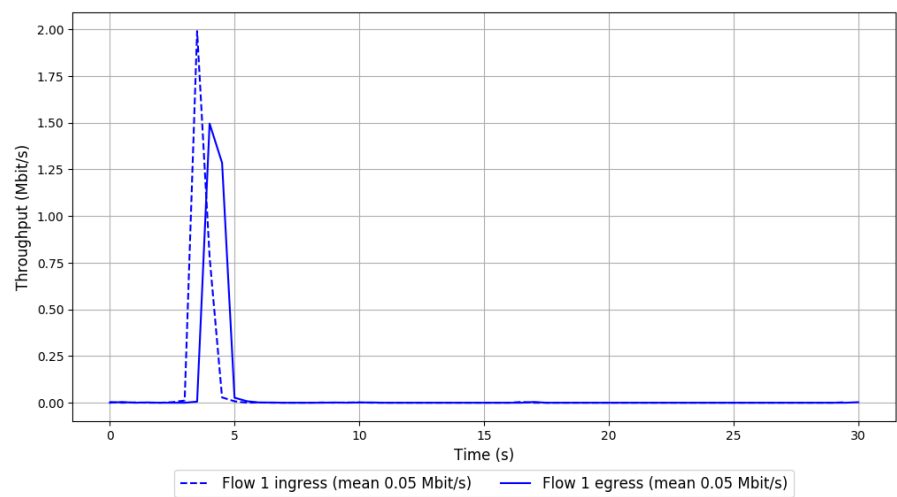


Run 6: Statistics of WebRTC media

Start at: 2018-05-22 09:57:06  
End at: 2018-05-22 09:57:36  
Local clock offset: -0.017 ms  
Remote clock offset: -0.174 ms

# Below is generated by plot.py at 2018-05-22 12:41:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 87.114 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 87.114 ms  
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



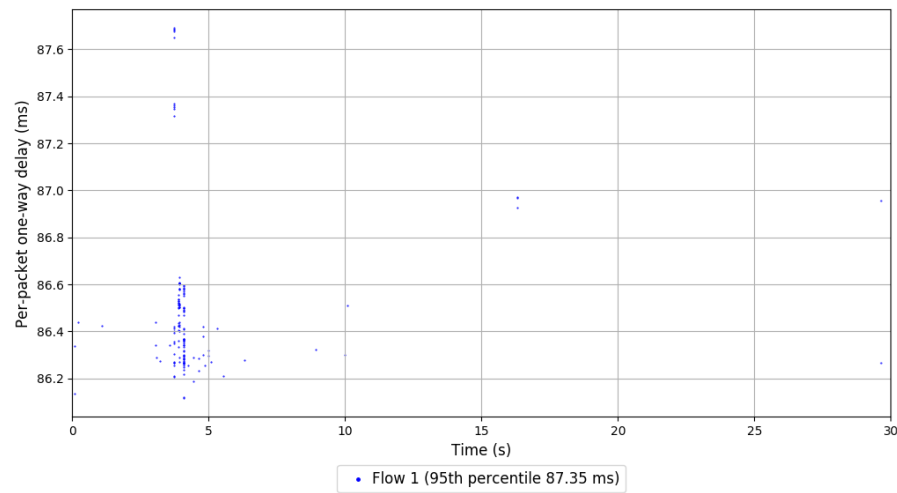
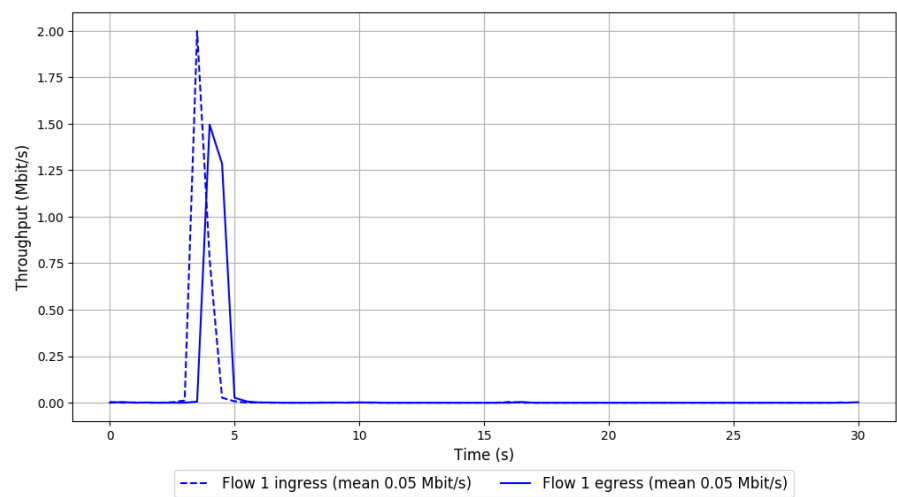
Run 7: Statistics of WebRTC media

Start at: 2018-05-22 10:17:19  
End at: 2018-05-22 10:17:49  
Local clock offset: 0.178 ms  
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2018-05-22 12:41:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 87.346 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 87.346 ms  
Loss rate: 0.00%



Run 7: Report of WebRTC media — Data Link

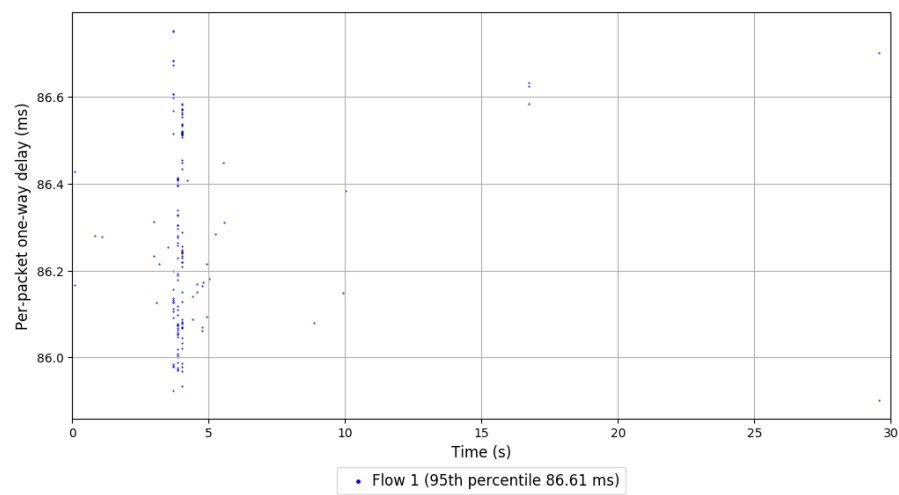
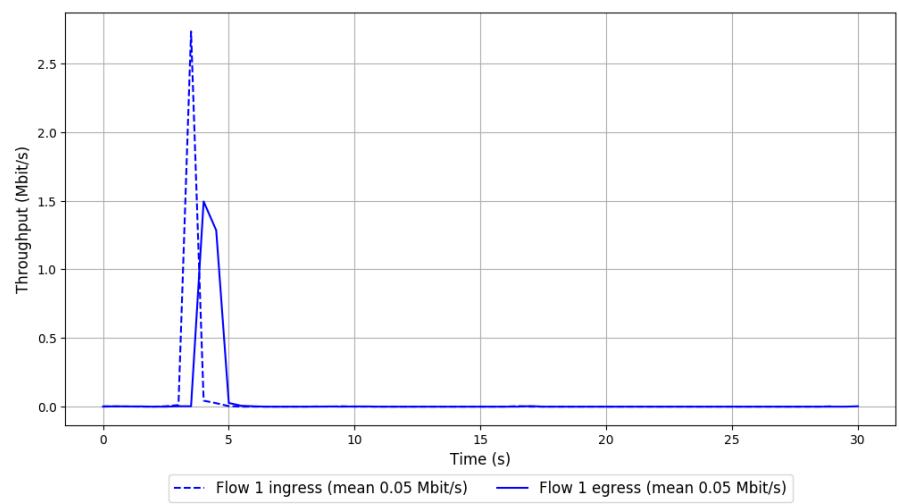


Run 8: Statistics of WebRTC media

Start at: 2018-05-22 10:37:21  
End at: 2018-05-22 10:37:51  
Local clock offset: -0.168 ms  
Remote clock offset: -0.173 ms

# Below is generated by plot.py at 2018-05-22 12:41:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 86.608 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 86.608 ms  
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

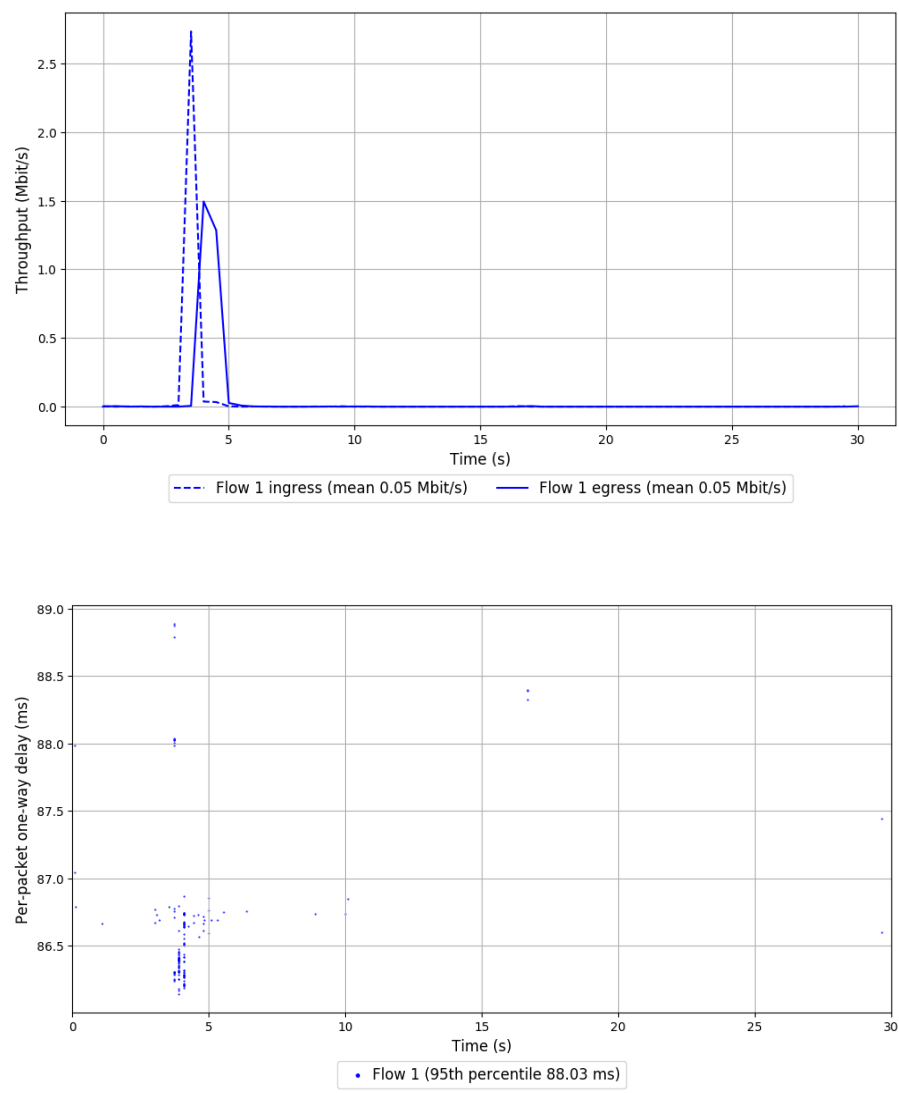


Run 9: Statistics of WebRTC media

Start at: 2018-05-22 10:57:39  
End at: 2018-05-22 10:58:09  
Local clock offset: 0.131 ms  
Remote clock offset: -0.131 ms

# Below is generated by plot.py at 2018-05-22 12:41:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 88.031 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 88.031 ms  
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-22 11:17:49

End at: 2018-05-22 11:18:19

Local clock offset: -0.053 ms

Remote clock offset: 0.11 ms

# Below is generated by plot.py at 2018-05-22 12:41:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 87.206 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 87.206 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

