

Pantheon Report

Generated at 2018-05-24 09:11:36 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

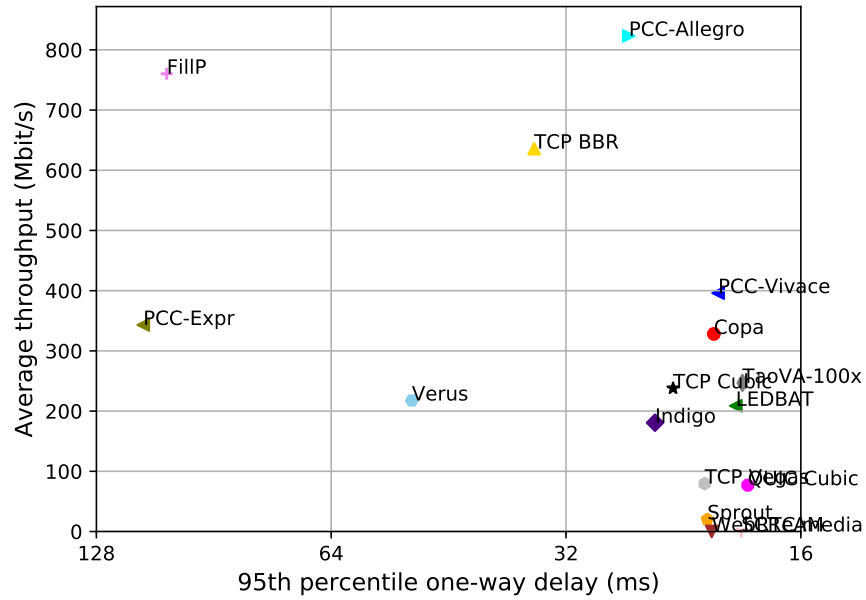
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

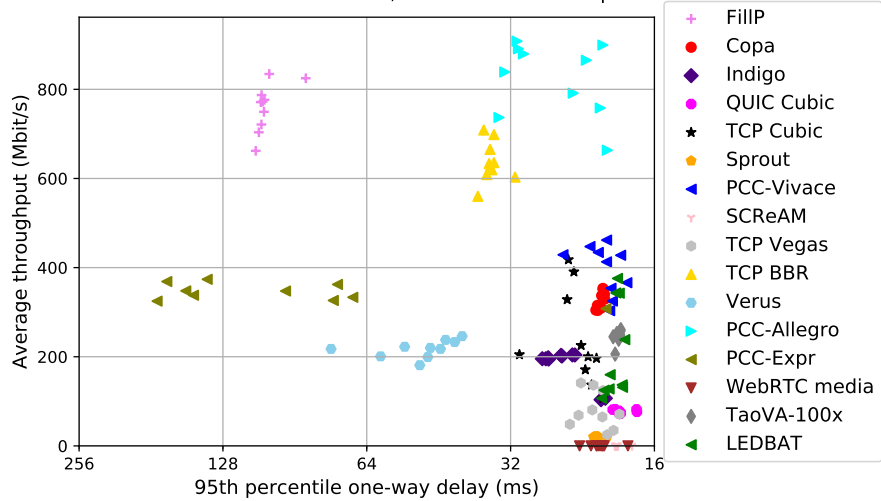
Git summary:

```
branch: master @ 0088822873ea99180f63545a341ef069f40efe59
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 AWS California 1 to Stanford, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from AWS California 1 to Stanford, 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	635.94	35.16	0.78
Copa	10	328.19	20.68	0.02
TCP Cubic	10	237.85	23.33	0.08
FillP	10	760.29	103.99	4.14
Indigo	10	180.71	24.61	0.03
LEDBAT	10	208.75	19.39	0.09
PCC-Allegro	10	823.15	26.59	0.32
PCC-Expr	10	343.03	111.46	0.73
QUIC Cubic	10	76.96	18.72	0.02
SCReAM	10	0.22	19.08	0.04
Sprout	10	20.22	21.09	0.48
TaoVA-100x	10	246.87	19.02	0.01
TCP Vegas	10	79.58	21.25	0.14
Verus	10	217.59	50.45	21.44
PCC-Vivace	10	396.05	20.43	0.03
WebRTC media	10	0.05	20.82	0.01

Run 1: Statistics of TCP BBR

Start at: 2018-05-24 03:39:54

End at: 2018-05-24 03:40:24

Local clock offset: 0.191 ms

Remote clock offset: 0.445 ms

Below is generated by plot.py at 2018-05-24 07:45:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 560.03 Mbit/s

95th percentile per-packet one-way delay: 37.464 ms

Loss rate: 0.05%

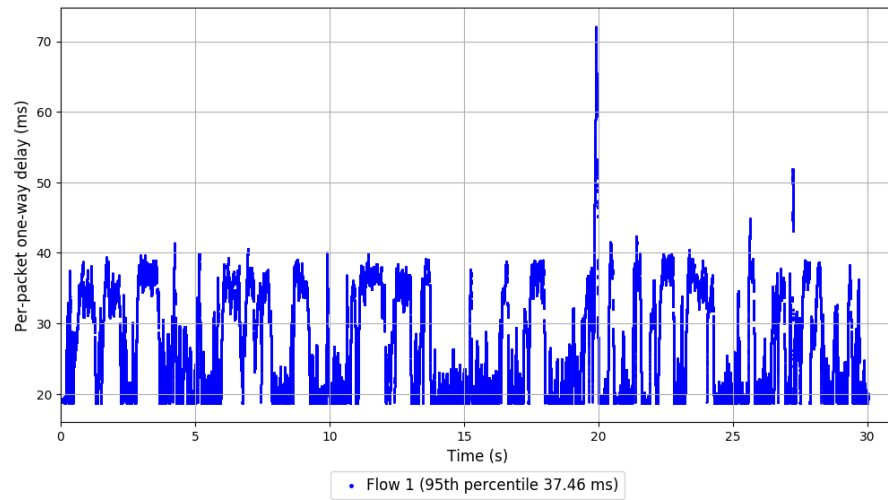
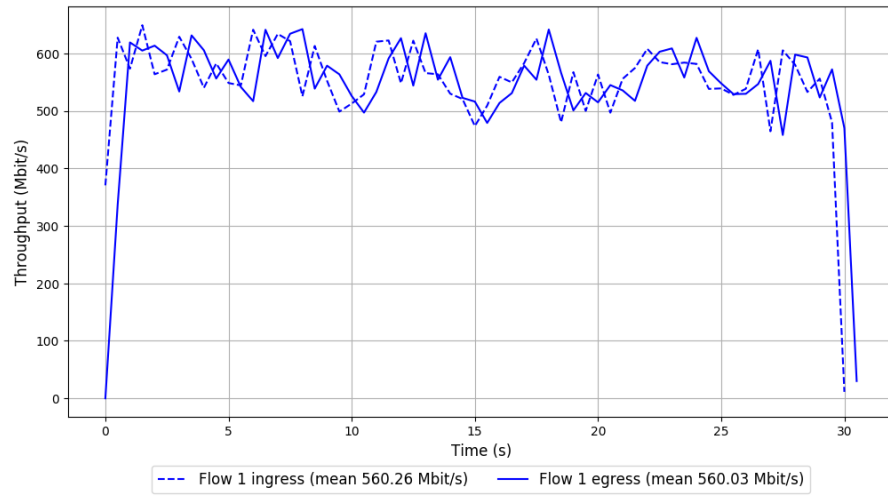
-- Flow 1:

Average throughput: 560.03 Mbit/s

95th percentile per-packet one-way delay: 37.464 ms

Loss rate: 0.05%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-05-24 04:04:03

End at: 2018-05-24 04:04:33

Local clock offset: 0.631 ms

Remote clock offset: 0.773 ms

Below is generated by plot.py at 2018-05-24 07:47:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 708.74 Mbit/s

95th percentile per-packet one-way delay: 36.423 ms

Loss rate: 0.41%

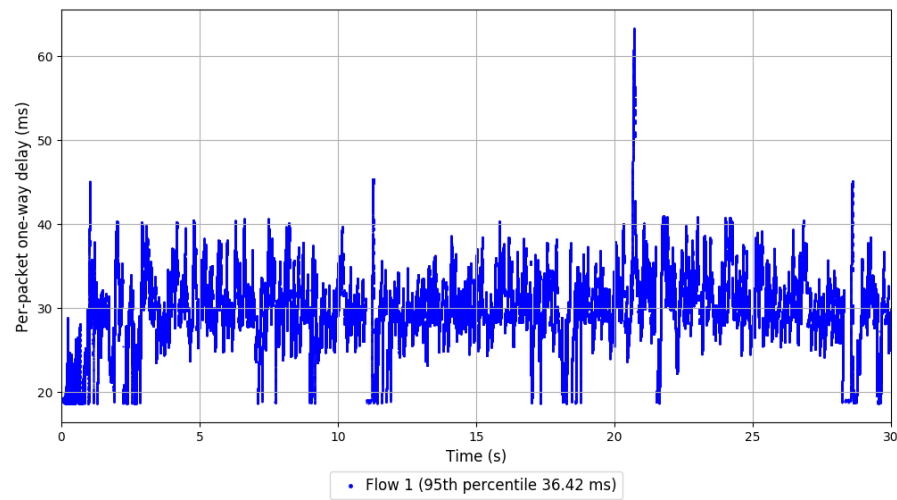
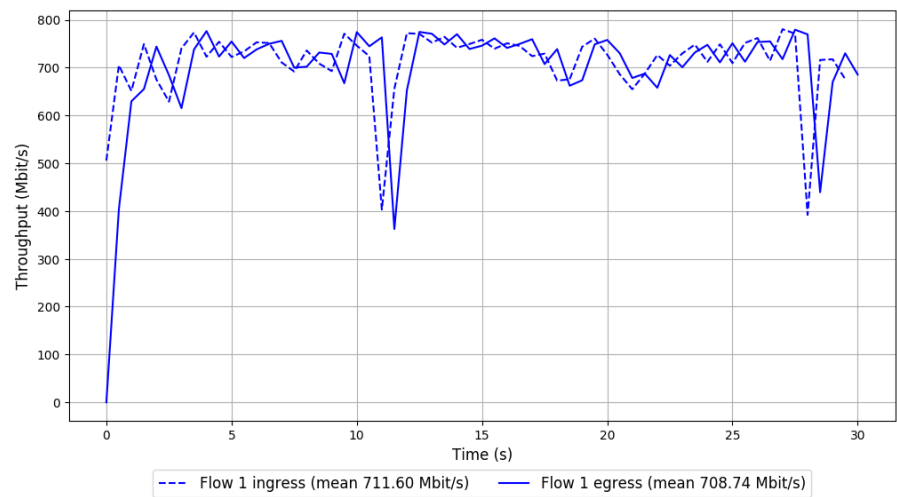
-- Flow 1:

Average throughput: 708.74 Mbit/s

95th percentile per-packet one-way delay: 36.423 ms

Loss rate: 0.41%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-05-24 04:27:53

End at: 2018-05-24 04:28:24

Local clock offset: 1.274 ms

Remote clock offset: 1.149 ms

Below is generated by plot.py at 2018-05-24 07:47:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 698.54 Mbit/s

95th percentile per-packet one-way delay: 34.668 ms

Loss rate: 0.32%

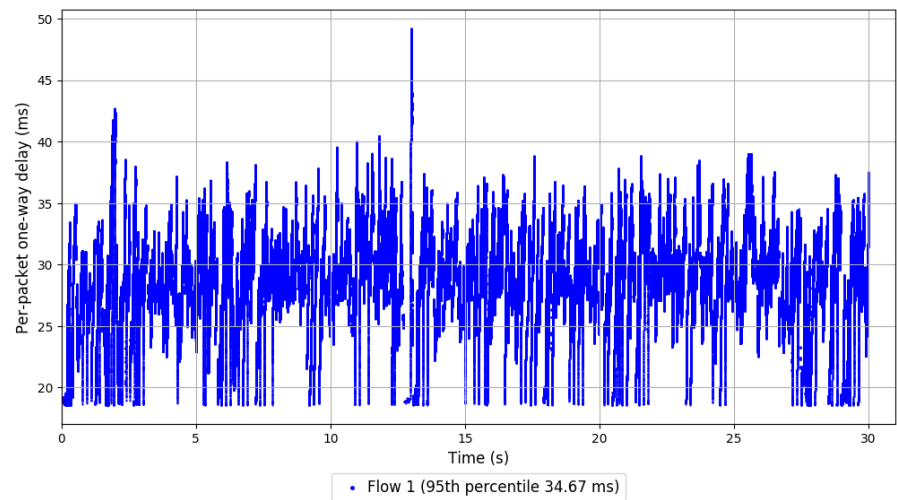
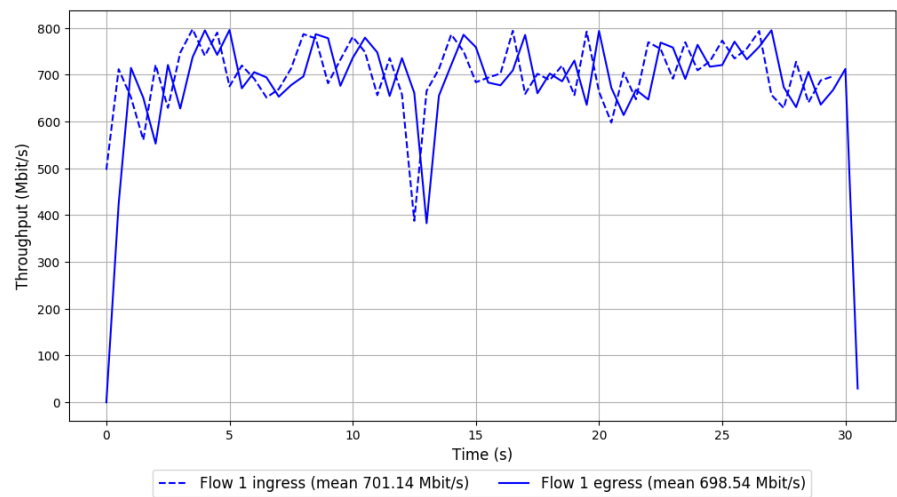
-- Flow 1:

Average throughput: 698.54 Mbit/s

95th percentile per-packet one-way delay: 34.668 ms

Loss rate: 0.32%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-05-24 04:51:44

End at: 2018-05-24 04:52:14

Local clock offset: 0.748 ms

Remote clock offset: 1.587 ms

Below is generated by plot.py at 2018-05-24 07:47:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 665.27 Mbit/s

95th percentile per-packet one-way delay: 35.327 ms

Loss rate: 0.65%

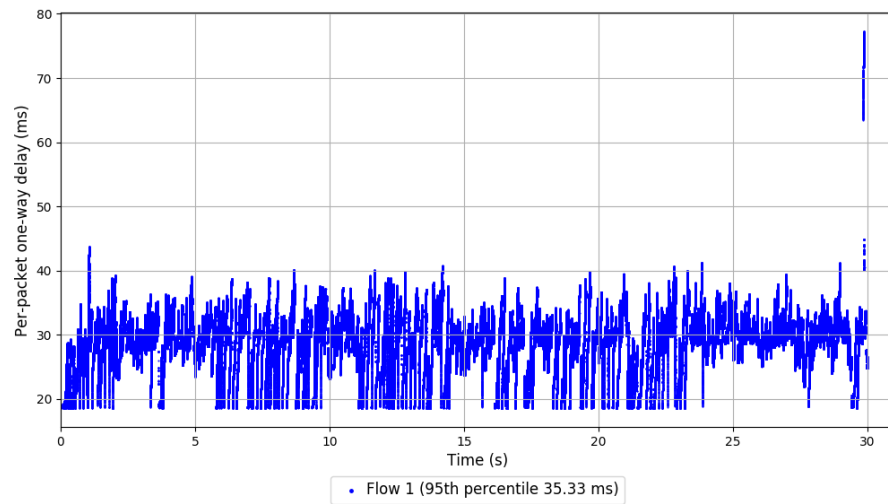
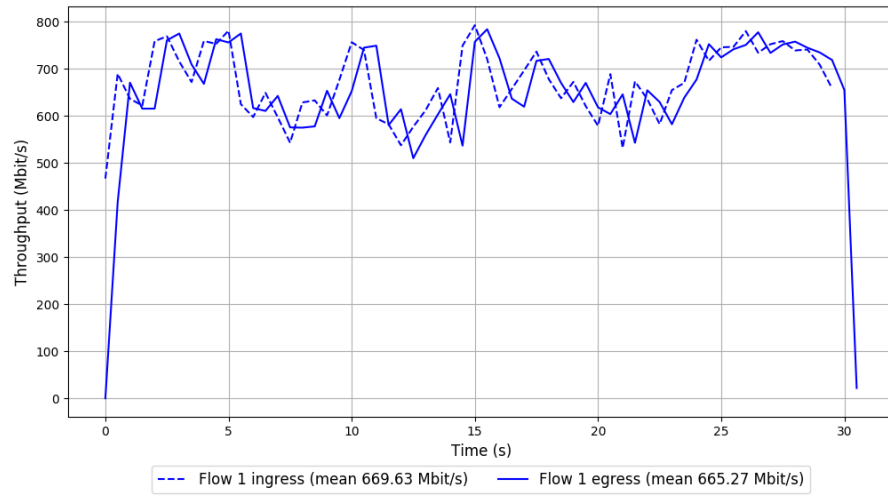
-- Flow 1:

Average throughput: 665.27 Mbit/s

95th percentile per-packet one-way delay: 35.327 ms

Loss rate: 0.65%

Run 4: Report of TCP BBR — Data Link

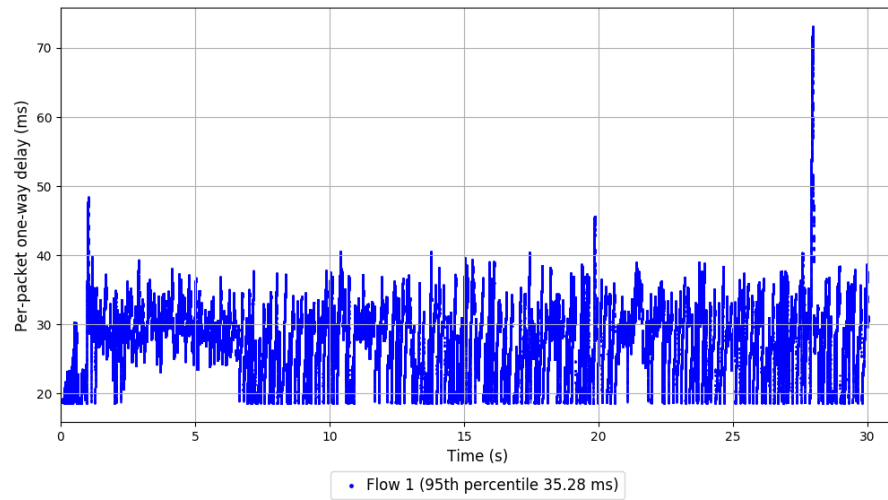
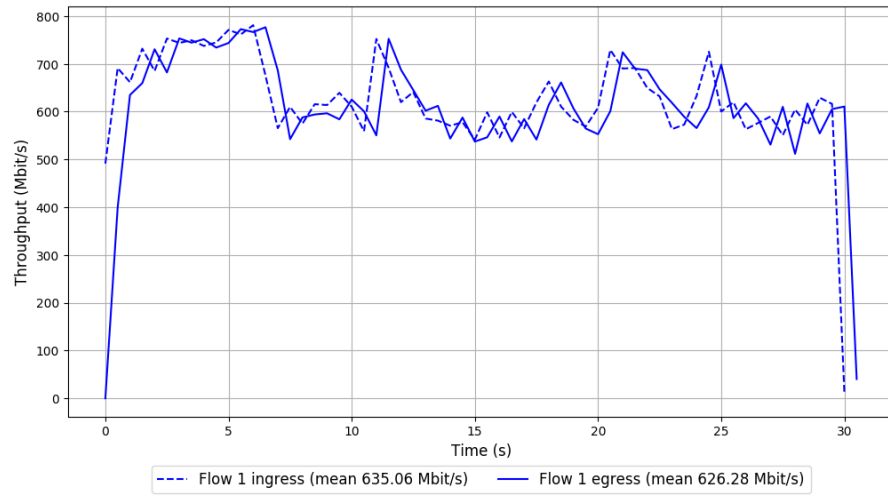


Run 5: Statistics of TCP BBR

Start at: 2018-05-24 05:15:19
End at: 2018-05-24 05:15:49
Local clock offset: -0.159 ms
Remote clock offset: -0.588 ms

Below is generated by plot.py at 2018-05-24 07:47:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 626.28 Mbit/s
95th percentile per-packet one-way delay: 35.285 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 626.28 Mbit/s
95th percentile per-packet one-way delay: 35.285 ms
Loss rate: 1.38%

Run 5: Report of TCP BBR — Data Link

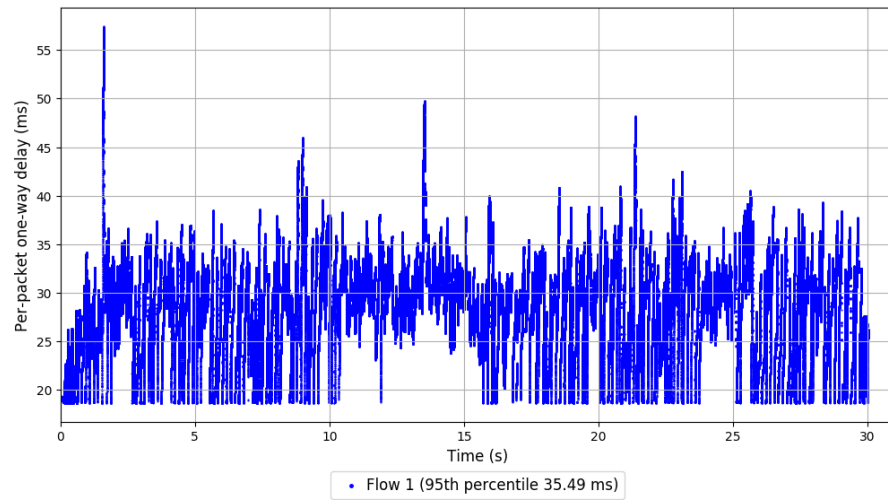
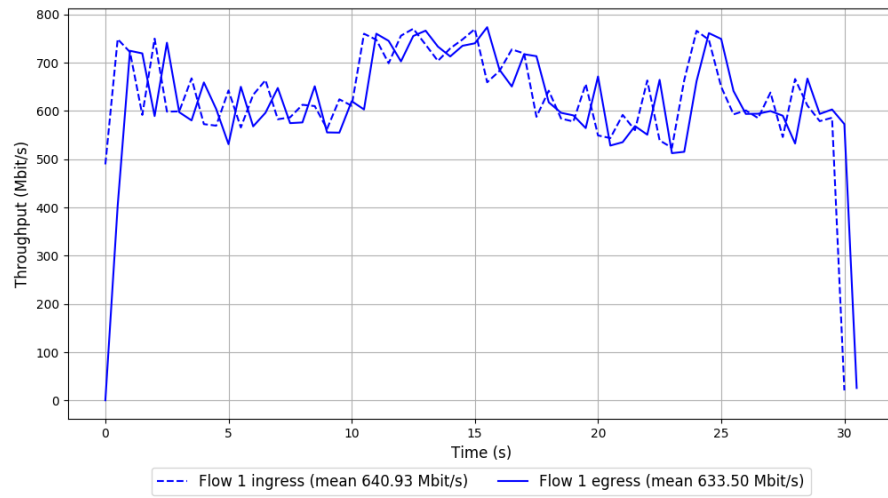


Run 6: Statistics of TCP BBR

Start at: 2018-05-24 05:39:14
End at: 2018-05-24 05:39:44
Local clock offset: -0.075 ms
Remote clock offset: -1.106 ms

Below is generated by plot.py at 2018-05-24 07:47:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 633.50 Mbit/s
95th percentile per-packet one-way delay: 35.490 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 633.50 Mbit/s
95th percentile per-packet one-way delay: 35.490 ms
Loss rate: 1.16%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-05-24 06:03:17

End at: 2018-05-24 06:03:47

Local clock offset: -0.089 ms

Remote clock offset: -1.51 ms

Below is generated by plot.py at 2018-05-24 07:47:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 608.76 Mbit/s

95th percentile per-packet one-way delay: 35.896 ms

Loss rate: 1.22%

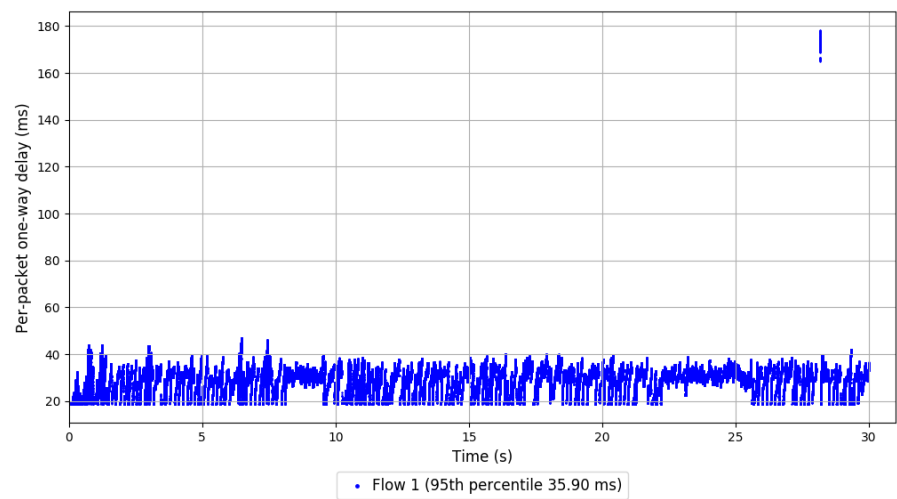
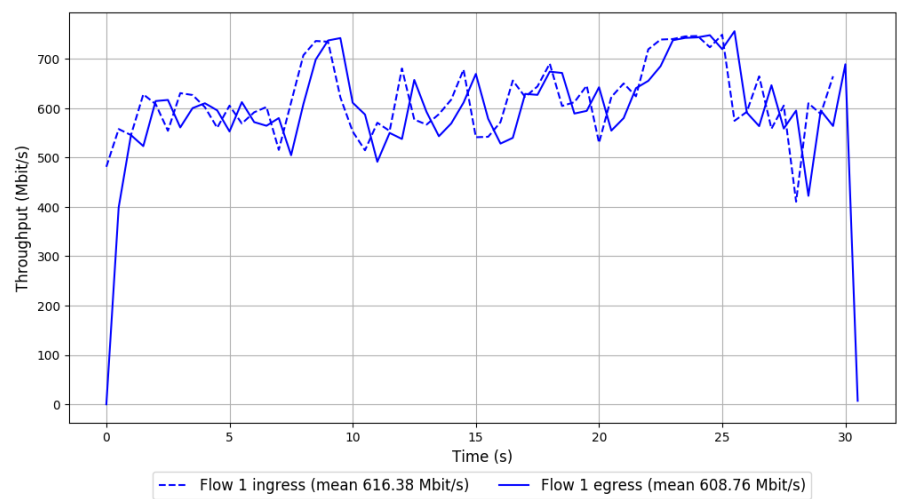
-- Flow 1:

Average throughput: 608.76 Mbit/s

95th percentile per-packet one-way delay: 35.896 ms

Loss rate: 1.22%

Run 7: Report of TCP BBR — Data Link

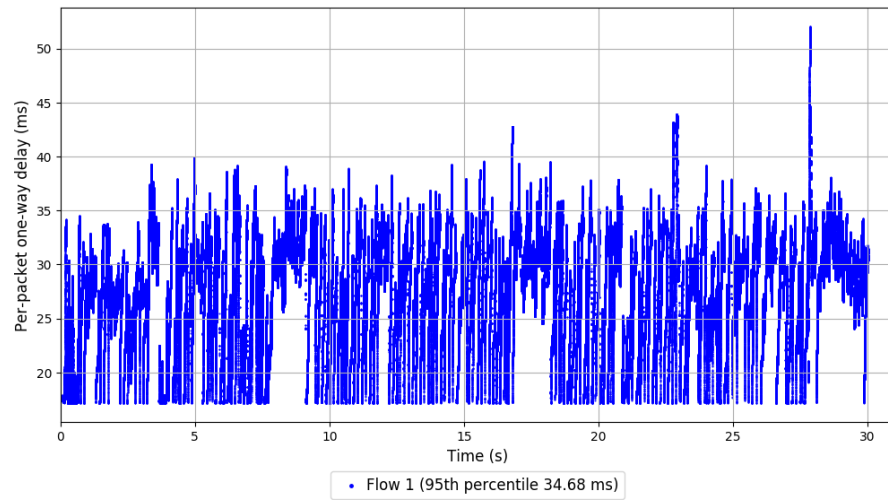
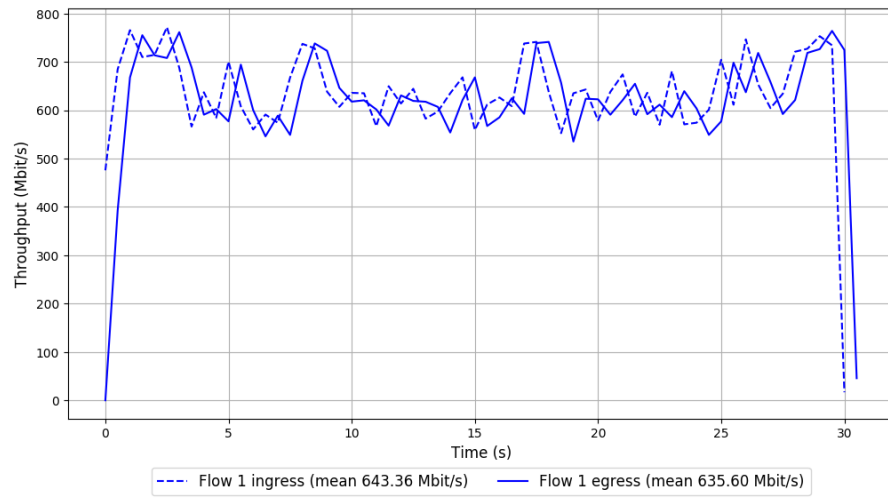


Run 8: Statistics of TCP BBR

Start at: 2018-05-24 06:26:43
End at: 2018-05-24 06:27:13
Local clock offset: -0.006 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2018-05-24 07:47:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 635.60 Mbit/s
95th percentile per-packet one-way delay: 34.676 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 635.60 Mbit/s
95th percentile per-packet one-way delay: 34.676 ms
Loss rate: 1.20%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-05-24 06:50:42

End at: 2018-05-24 06:51:12

Local clock offset: 0.166 ms

Remote clock offset: -0.046 ms

Below is generated by plot.py at 2018-05-24 07:53:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 619.58 Mbit/s

95th percentile per-packet one-way delay: 35.019 ms

Loss rate: 1.31%

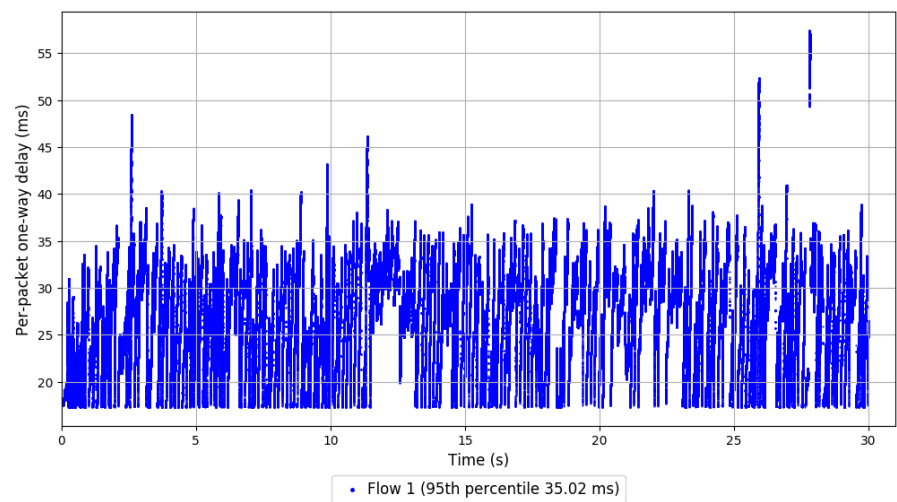
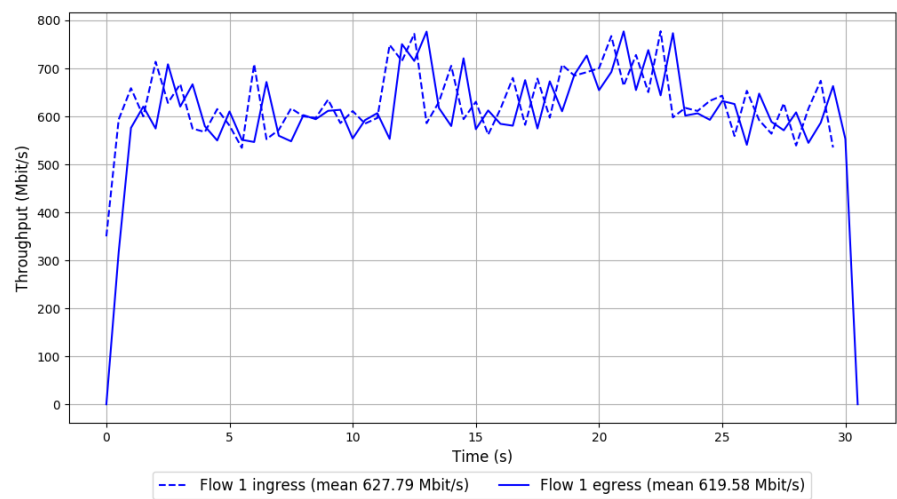
-- Flow 1:

Average throughput: 619.58 Mbit/s

95th percentile per-packet one-way delay: 35.019 ms

Loss rate: 1.31%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-05-24 07:14:40

End at: 2018-05-24 07:15:10

Local clock offset: 0.249 ms

Remote clock offset: -0.093 ms

Below is generated by plot.py at 2018-05-24 07:54:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 603.07 Mbit/s

95th percentile per-packet one-way delay: 31.313 ms

Loss rate: 0.15%

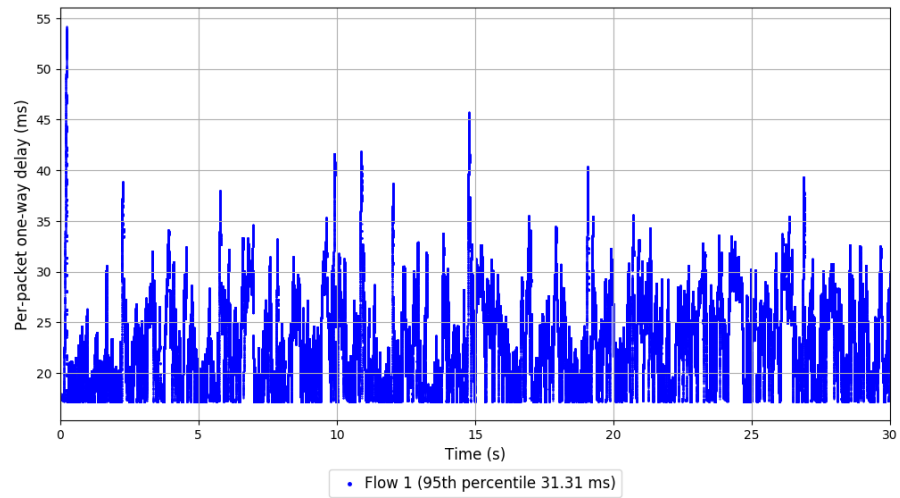
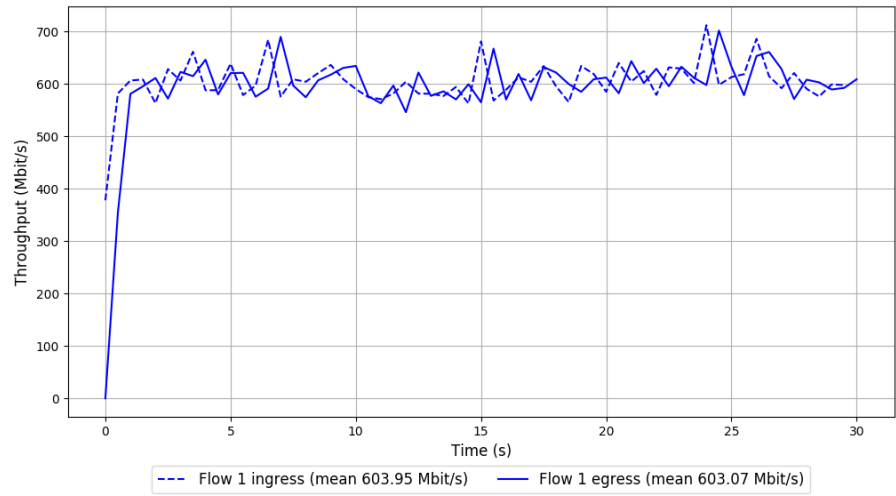
-- Flow 1:

Average throughput: 603.07 Mbit/s

95th percentile per-packet one-way delay: 31.313 ms

Loss rate: 0.15%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-05-24 03:43:09

End at: 2018-05-24 03:43:39

Local clock offset: 0.152 ms

Remote clock offset: 0.539 ms

Below is generated by plot.py at 2018-05-24 07:54:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 337.27 Mbit/s

95th percentile per-packet one-way delay: 20.632 ms

Loss rate: 0.00%

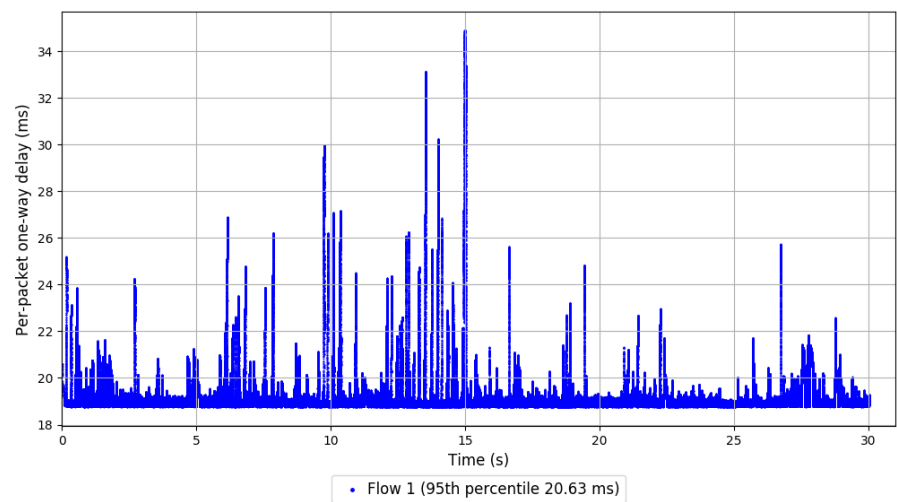
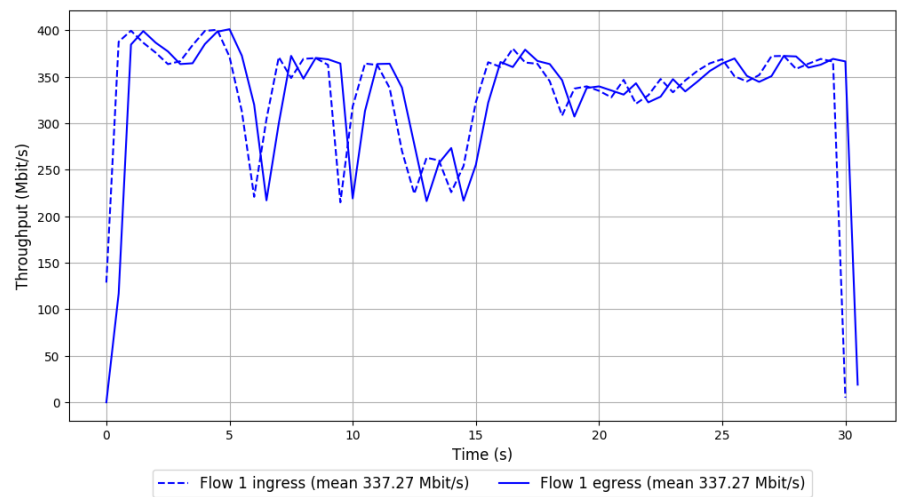
-- Flow 1:

Average throughput: 337.27 Mbit/s

95th percentile per-packet one-way delay: 20.632 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-05-24 04:07:21

End at: 2018-05-24 04:07:51

Local clock offset: 0.863 ms

Remote clock offset: 0.845 ms

Below is generated by plot.py at 2018-05-24 07:54:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 337.81 Mbit/s

95th percentile per-packet one-way delay: 20.560 ms

Loss rate: 0.02%

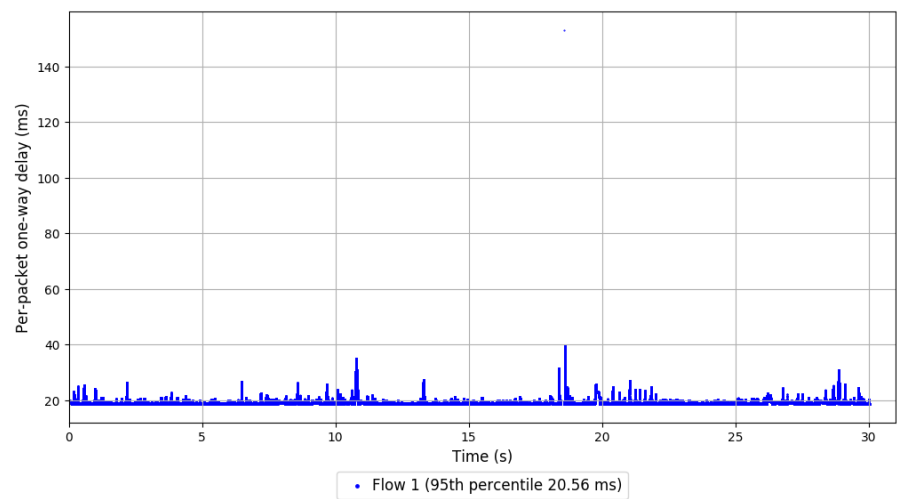
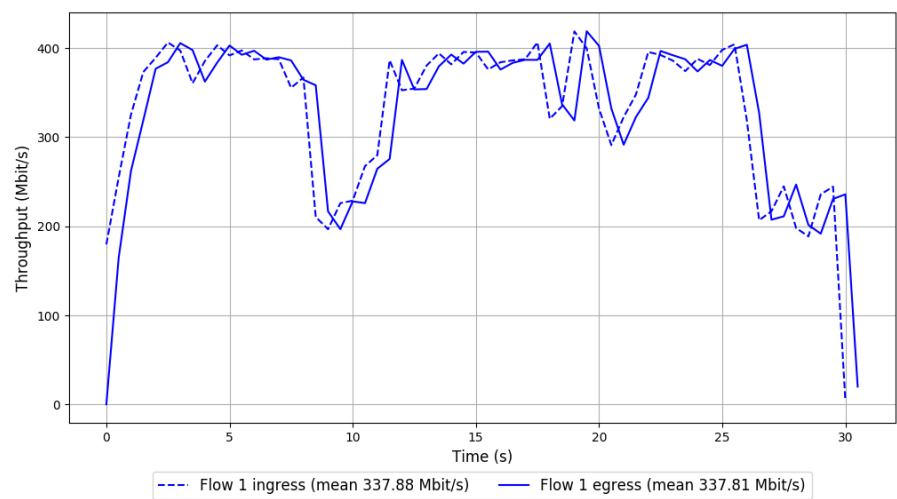
-- Flow 1:

Average throughput: 337.81 Mbit/s

95th percentile per-packet one-way delay: 20.560 ms

Loss rate: 0.02%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-05-24 04:31:12

End at: 2018-05-24 04:31:42

Local clock offset: 1.202 ms

Remote clock offset: 1.277 ms

Below is generated by plot.py at 2018-05-24 07:54:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 309.26 Mbit/s

95th percentile per-packet one-way delay: 20.692 ms

Loss rate: 0.01%

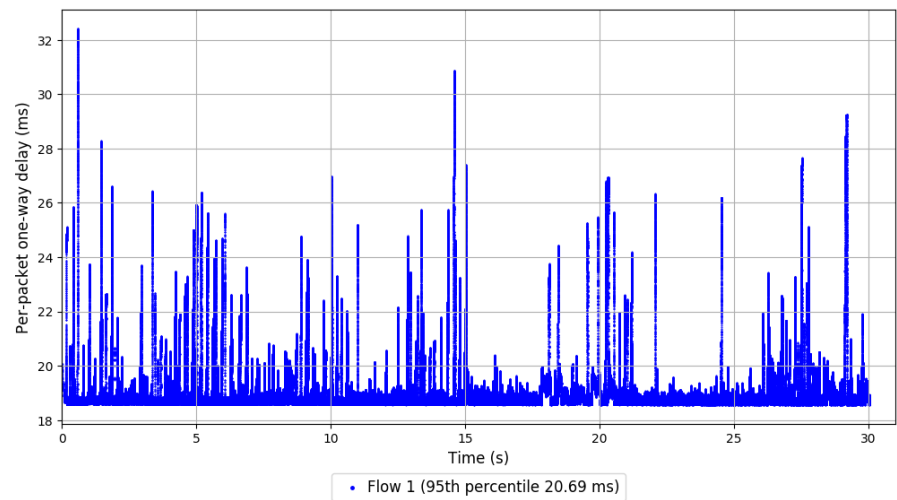
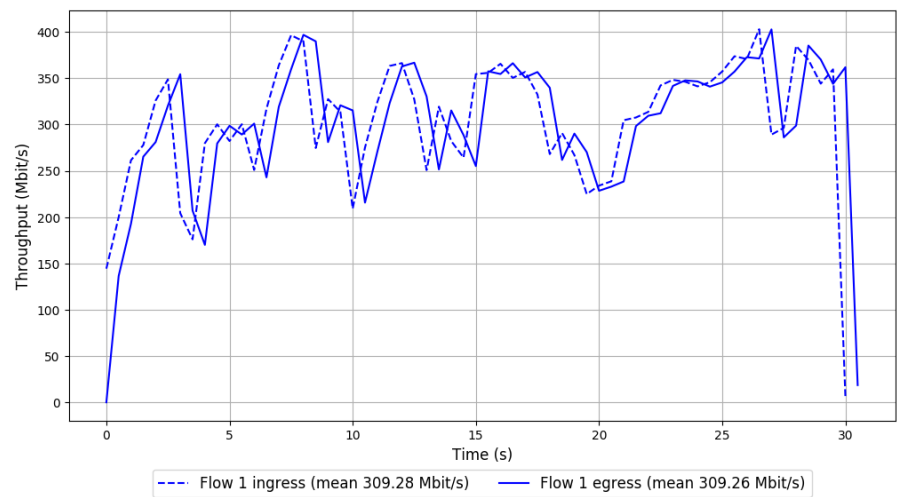
-- Flow 1:

Average throughput: 309.26 Mbit/s

95th percentile per-packet one-way delay: 20.692 ms

Loss rate: 0.01%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-05-24 04:55:01

End at: 2018-05-24 04:55:31

Local clock offset: 0.614 ms

Remote clock offset: 1.721 ms

Below is generated by plot.py at 2018-05-24 07:55:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 353.32 Mbit/s

95th percentile per-packet one-way delay: 20.508 ms

Loss rate: 0.01%

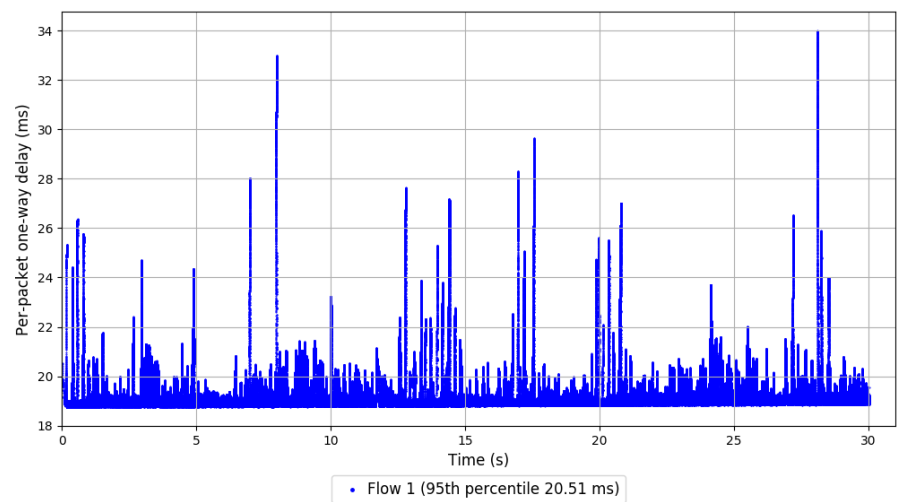
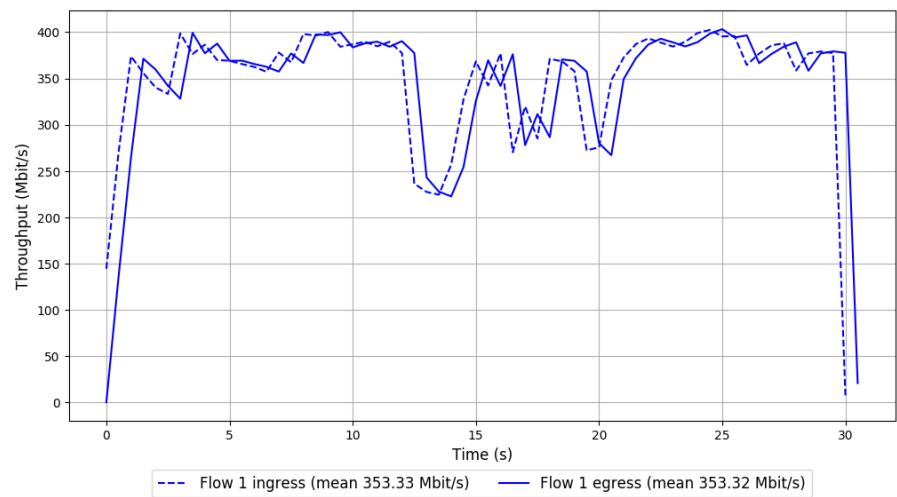
-- Flow 1:

Average throughput: 353.32 Mbit/s

95th percentile per-packet one-way delay: 20.508 ms

Loss rate: 0.01%

Run 4: Report of Copa — Data Link

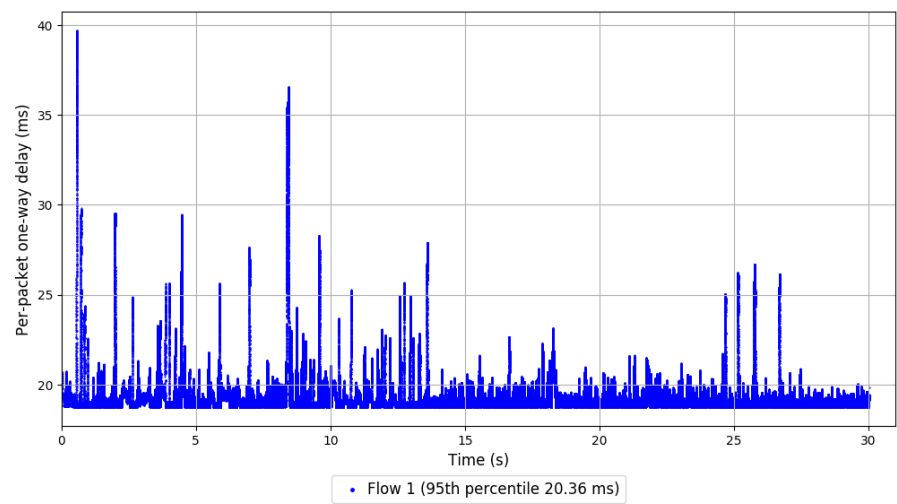
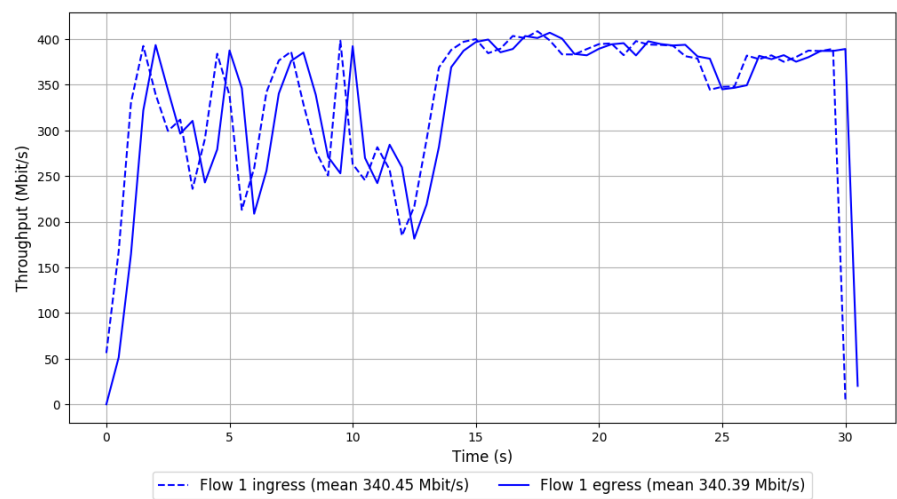


Run 5: Statistics of Copa

Start at: 2018-05-24 05:18:47
End at: 2018-05-24 05:19:17
Local clock offset: -0.303 ms
Remote clock offset: -0.638 ms

Below is generated by plot.py at 2018-05-24 07:55:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 340.39 Mbit/s
95th percentile per-packet one-way delay: 20.364 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 340.39 Mbit/s
95th percentile per-packet one-way delay: 20.364 ms
Loss rate: 0.02%

Run 5: Report of Copa — Data Link

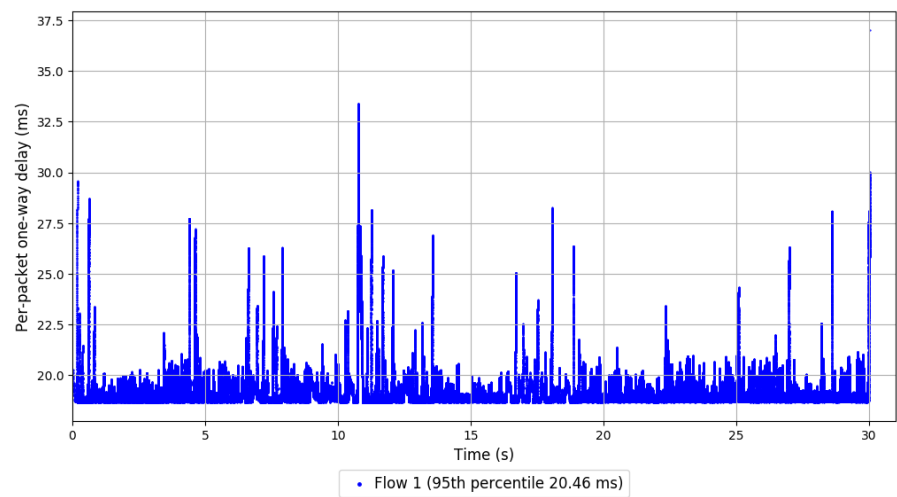
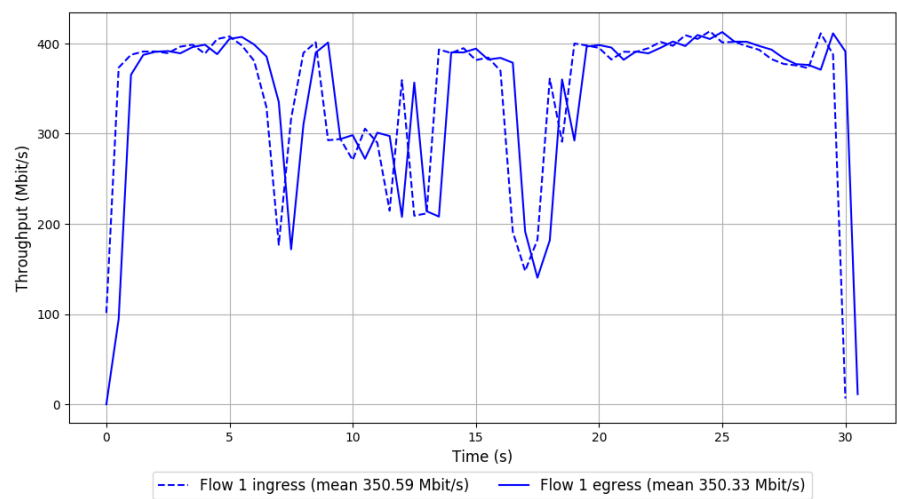


Run 6: Statistics of Copa

Start at: 2018-05-24 05:42:34
End at: 2018-05-24 05:43:04
Local clock offset: -0.035 ms
Remote clock offset: -1.139 ms

Below is generated by plot.py at 2018-05-24 07:55:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 350.33 Mbit/s
95th percentile per-packet one-way delay: 20.465 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 350.33 Mbit/s
95th percentile per-packet one-way delay: 20.465 ms
Loss rate: 0.05%

Run 6: Report of Copa — Data Link

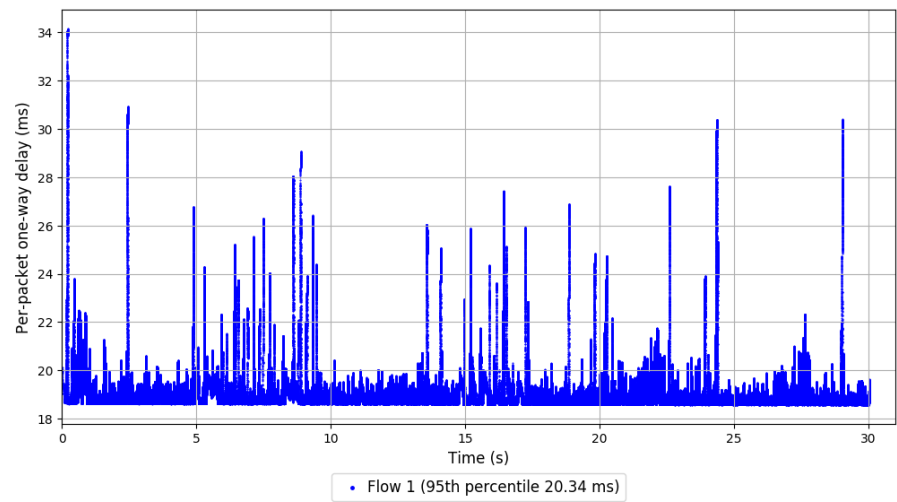
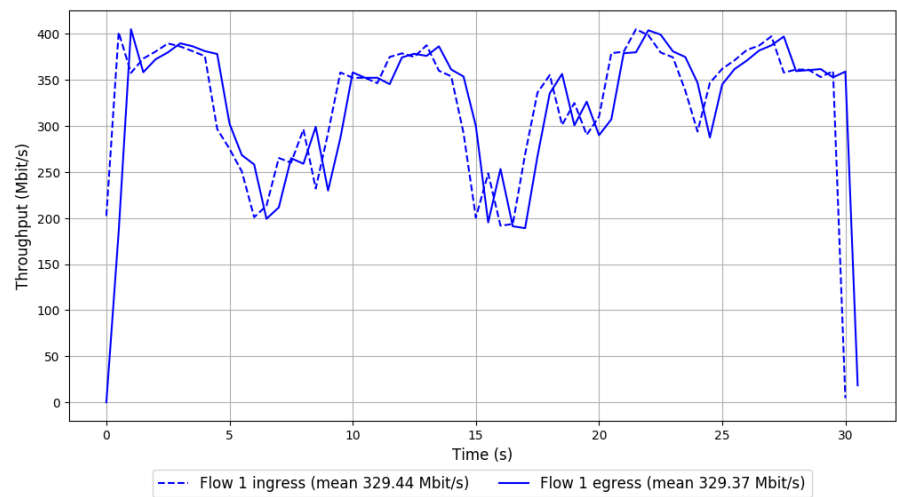


Run 7: Statistics of Copa

Start at: 2018-05-24 06:06:31
End at: 2018-05-24 06:07:01
Local clock offset: 0.016 ms
Remote clock offset: -1.058 ms

Below is generated by plot.py at 2018-05-24 08:01:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 329.37 Mbit/s
95th percentile per-packet one-way delay: 20.339 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 329.37 Mbit/s
95th percentile per-packet one-way delay: 20.339 ms
Loss rate: 0.02%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-05-24 06:30:14

End at: 2018-05-24 06:30:44

Local clock offset: 0.003 ms

Remote clock offset: 0.1 ms

Below is generated by plot.py at 2018-05-24 08:01:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 315.28 Mbit/s

95th percentile per-packet one-way delay: 21.055 ms

Loss rate: 0.02%

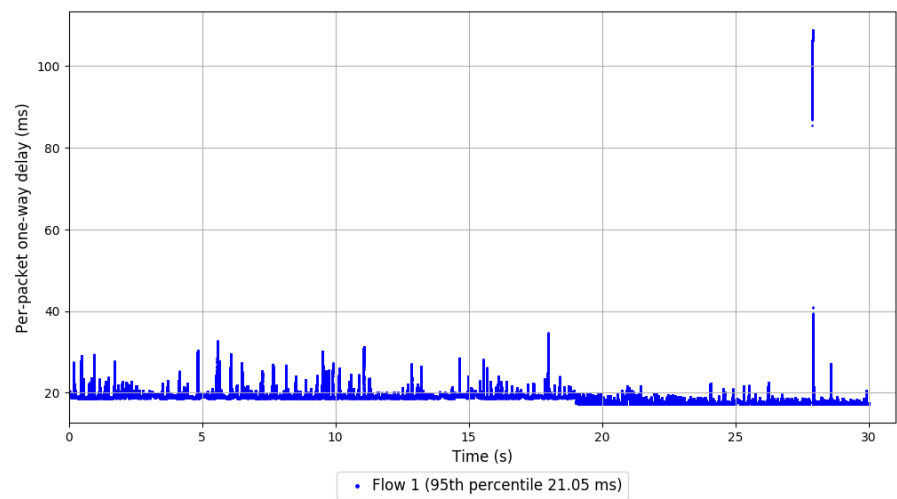
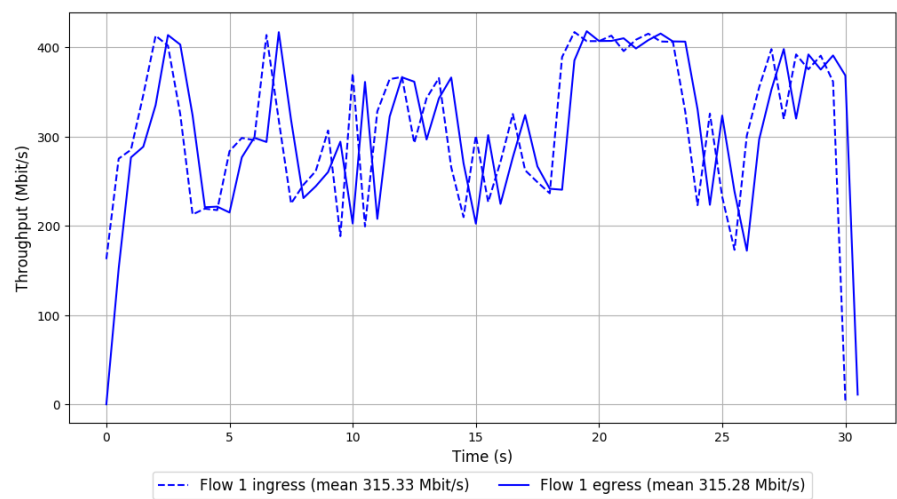
-- Flow 1:

Average throughput: 315.28 Mbit/s

95th percentile per-packet one-way delay: 21.055 ms

Loss rate: 0.02%

Run 8: Report of Copa — Data Link

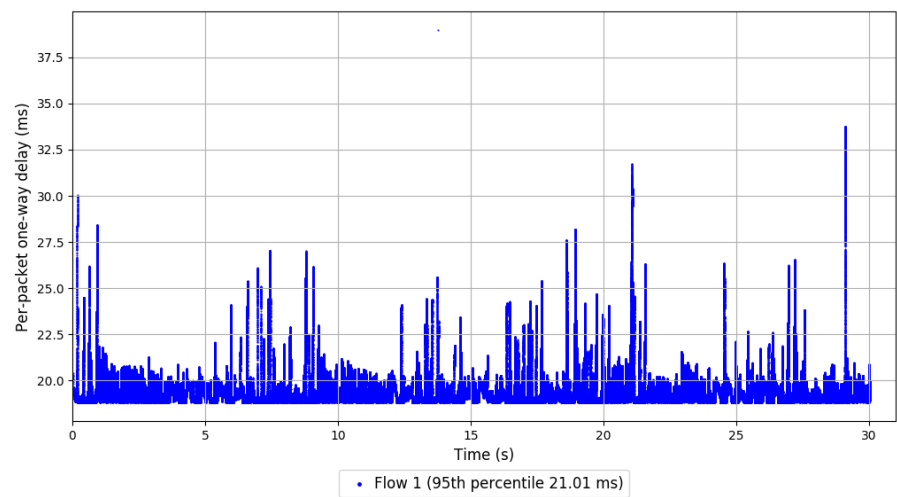
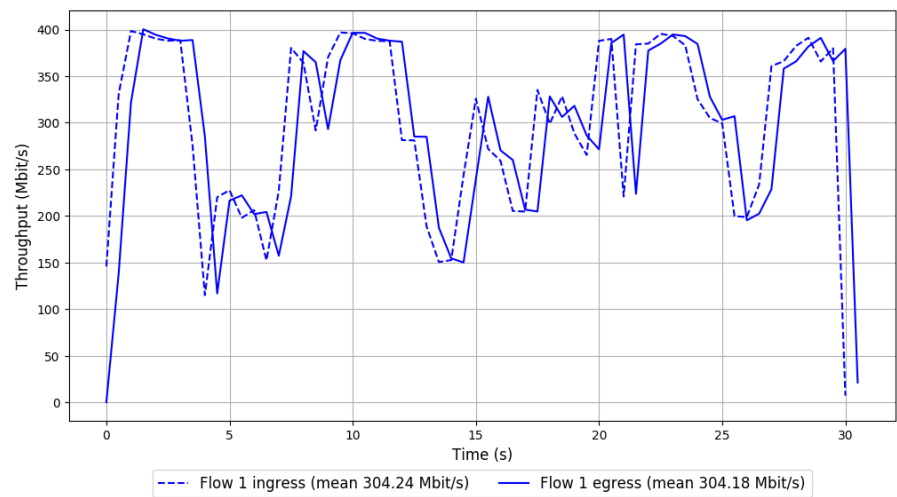


Run 9: Statistics of Copa

Start at: 2018-05-24 06:54:07
End at: 2018-05-24 06:54:38
Local clock offset: 0.167 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2018-05-24 08:01:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 304.18 Mbit/s
95th percentile per-packet one-way delay: 21.011 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 304.18 Mbit/s
95th percentile per-packet one-way delay: 21.011 ms
Loss rate: 0.02%

Run 9: Report of Copa — Data Link

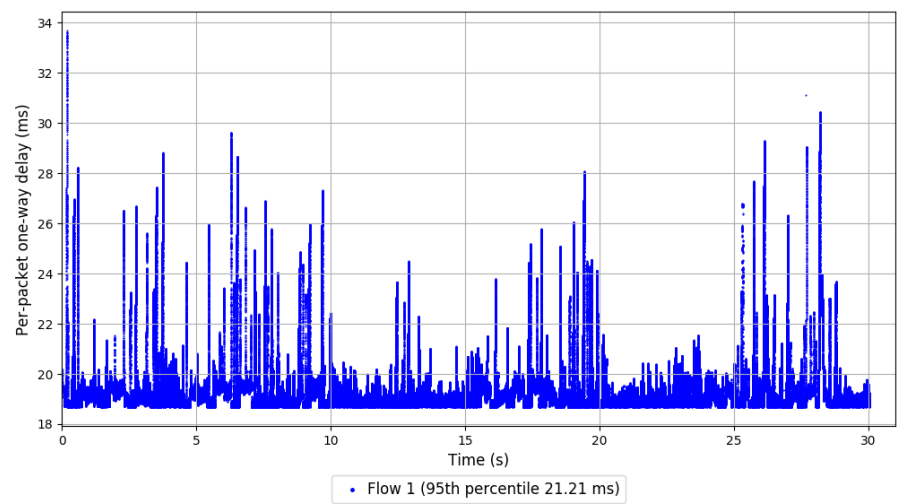
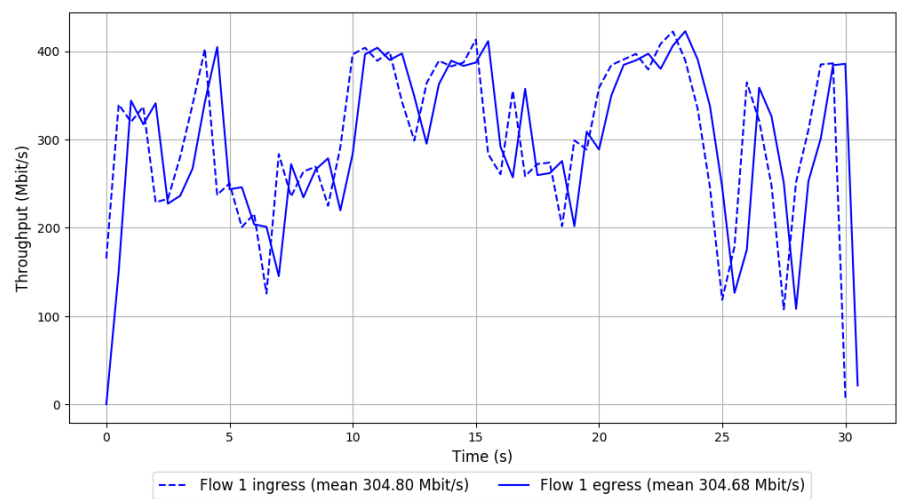


Run 10: Statistics of Copa

Start at: 2018-05-24 07:18:13
End at: 2018-05-24 07:18:43
Local clock offset: 0.275 ms
Remote clock offset: -0.072 ms

Below is generated by plot.py at 2018-05-24 08:01:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 304.68 Mbit/s
95th percentile per-packet one-way delay: 21.215 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 304.68 Mbit/s
95th percentile per-packet one-way delay: 21.215 ms
Loss rate: 0.04%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-05-24 03:32:40

End at: 2018-05-24 03:33:10

Local clock offset: -0.117 ms

Remote clock offset: 0.259 ms

Below is generated by plot.py at 2018-05-24 08:01:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.62 Mbit/s

95th percentile per-packet one-way delay: 21.152 ms

Loss rate: 0.00%

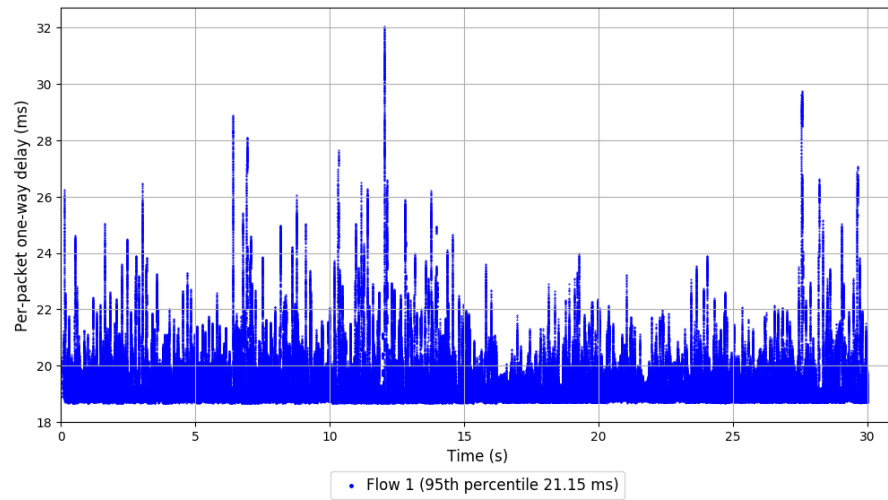
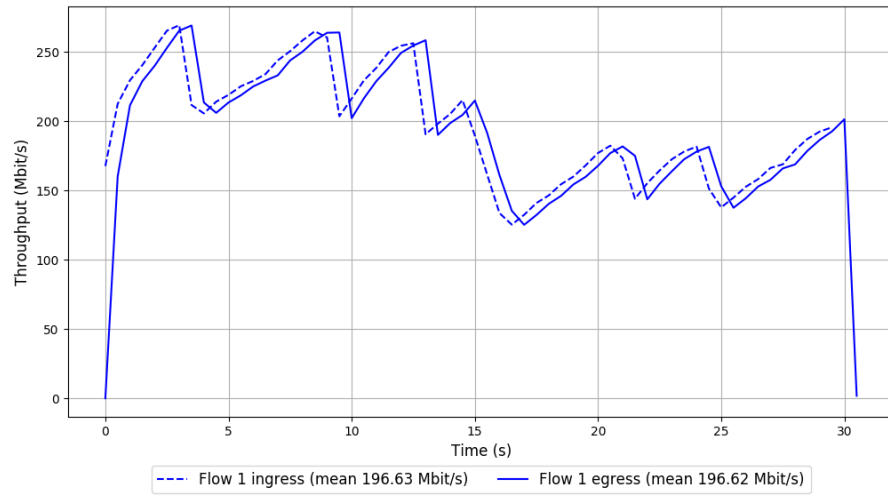
-- Flow 1:

Average throughput: 196.62 Mbit/s

95th percentile per-packet one-way delay: 21.152 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-05-24 03:56:32

End at: 2018-05-24 03:57:02

Local clock offset: 0.136 ms

Remote clock offset: 0.746 ms

Below is generated by plot.py at 2018-05-24 08:01:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 328.33 Mbit/s

95th percentile per-packet one-way delay: 24.362 ms

Loss rate: 0.05%

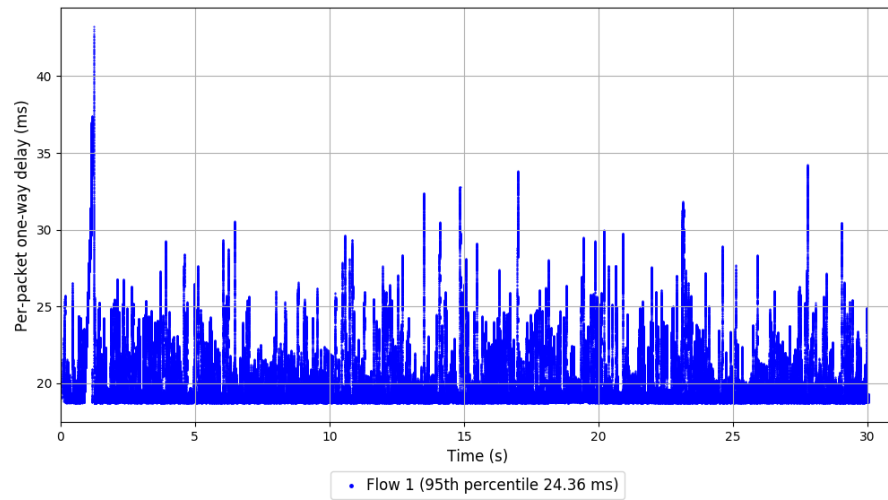
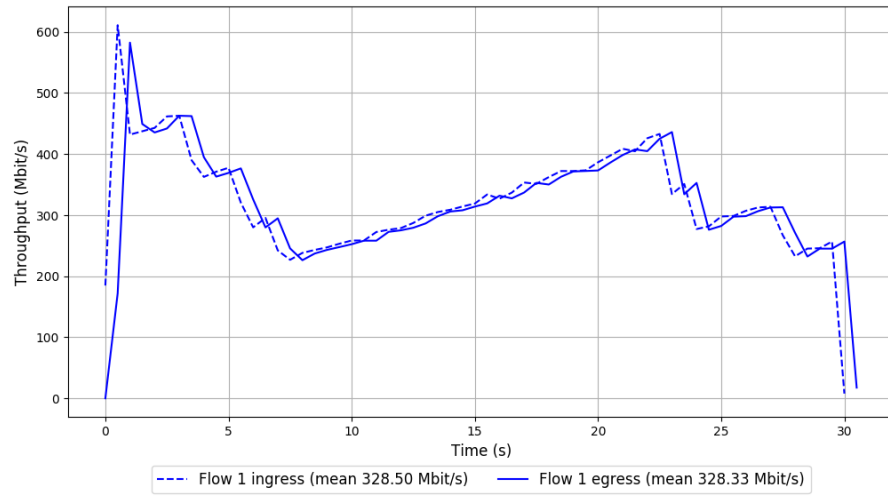
-- Flow 1:

Average throughput: 328.33 Mbit/s

95th percentile per-packet one-way delay: 24.362 ms

Loss rate: 0.05%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-05-24 04:20:35

End at: 2018-05-24 04:21:05

Local clock offset: 1.236 ms

Remote clock offset: 1.119 ms

Below is generated by plot.py at 2018-05-24 08:01:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 390.63 Mbit/s

95th percentile per-packet one-way delay: 23.584 ms

Loss rate: 0.04%

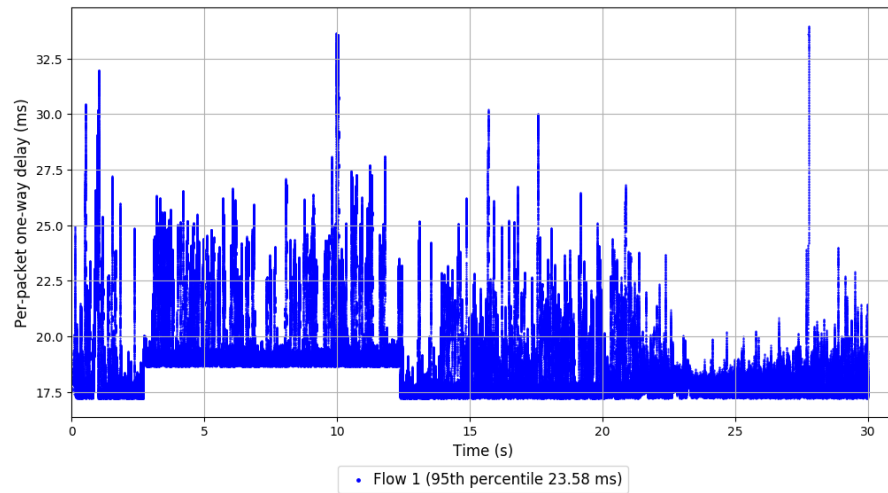
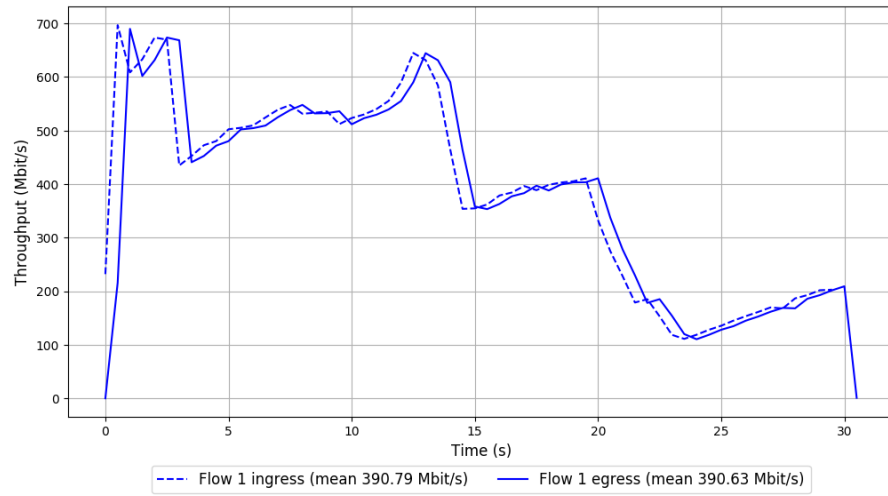
-- Flow 1:

Average throughput: 390.63 Mbit/s

95th percentile per-packet one-way delay: 23.584 ms

Loss rate: 0.04%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-05-24 04:44:21

End at: 2018-05-24 04:44:51

Local clock offset: 0.724 ms

Remote clock offset: 1.586 ms

Below is generated by plot.py at 2018-05-24 08:01:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 417.84 Mbit/s

95th percentile per-packet one-way delay: 24.216 ms

Loss rate: 0.03%

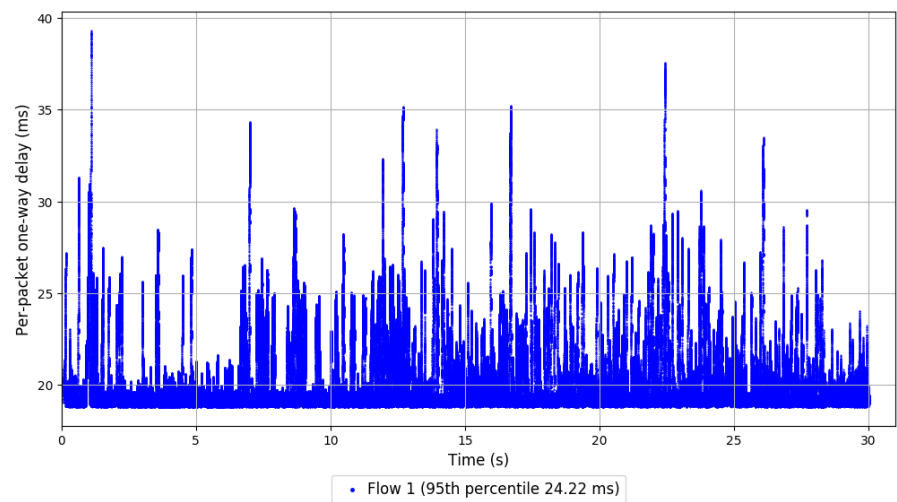
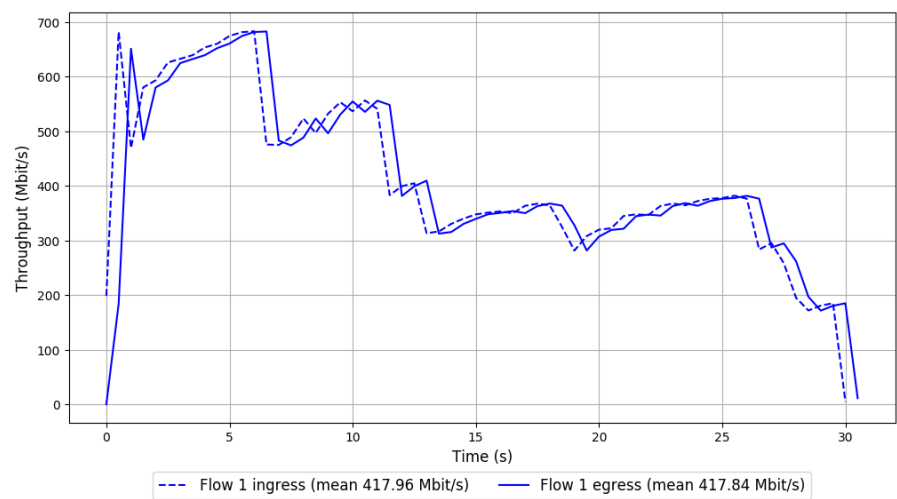
-- Flow 1:

Average throughput: 417.84 Mbit/s

95th percentile per-packet one-way delay: 24.216 ms

Loss rate: 0.03%

Run 4: Report of TCP Cubic — Data Link

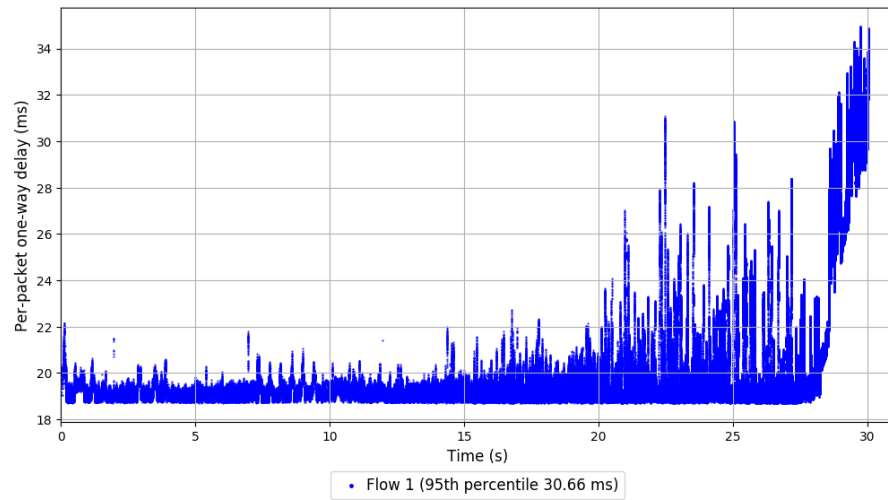
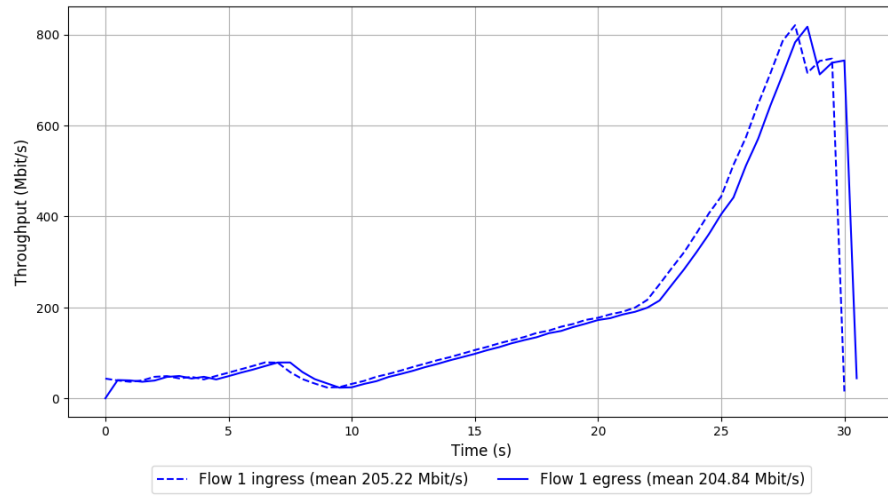


Run 5: Statistics of TCP Cubic

Start at: 2018-05-24 05:08:05
End at: 2018-05-24 05:08:35
Local clock offset: 0.029 ms
Remote clock offset: -0.129 ms

Below is generated by plot.py at 2018-05-24 08:01:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 204.84 Mbit/s
95th percentile per-packet one-way delay: 30.662 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 204.84 Mbit/s
95th percentile per-packet one-way delay: 30.662 ms
Loss rate: 0.19%

Run 5: Report of TCP Cubic — Data Link

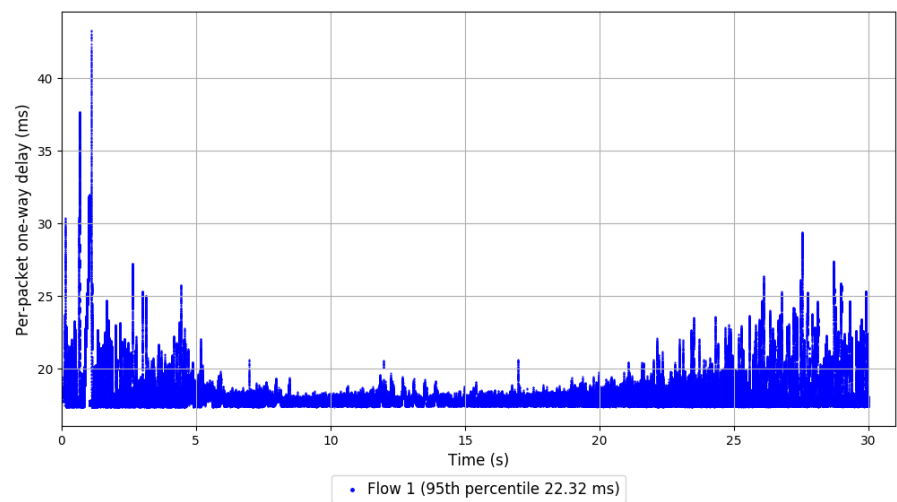
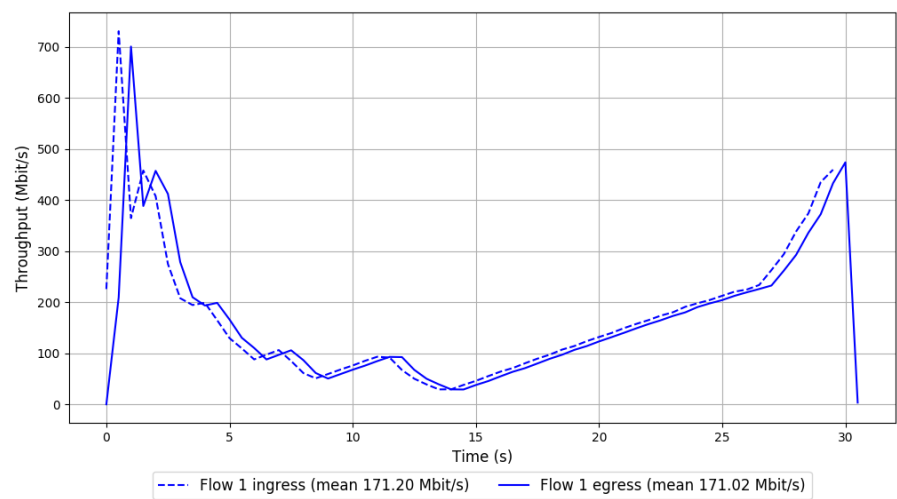


Run 6: Statistics of TCP Cubic

Start at: 2018-05-24 05:32:03
End at: 2018-05-24 05:32:33
Local clock offset: -0.367 ms
Remote clock offset: -0.955 ms

Below is generated by plot.py at 2018-05-24 08:02:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 171.02 Mbit/s
95th percentile per-packet one-way delay: 22.321 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 171.02 Mbit/s
95th percentile per-packet one-way delay: 22.321 ms
Loss rate: 0.10%

Run 6: Report of TCP Cubic — Data Link

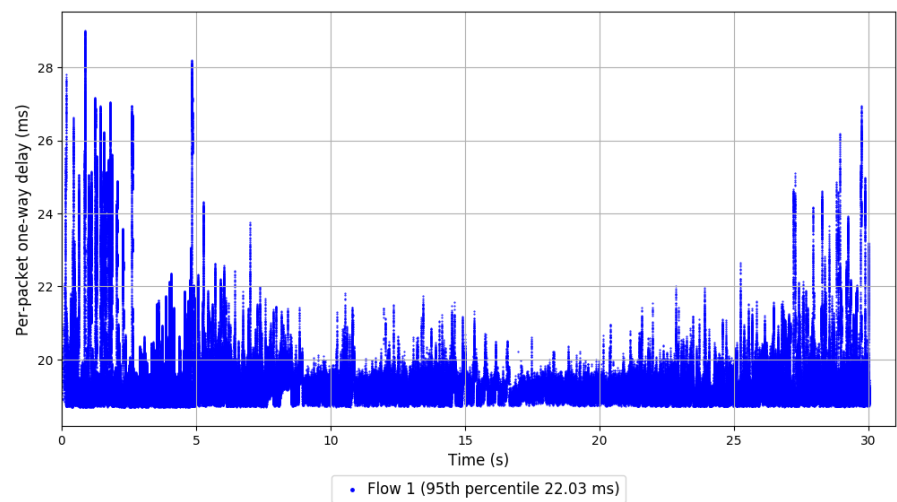
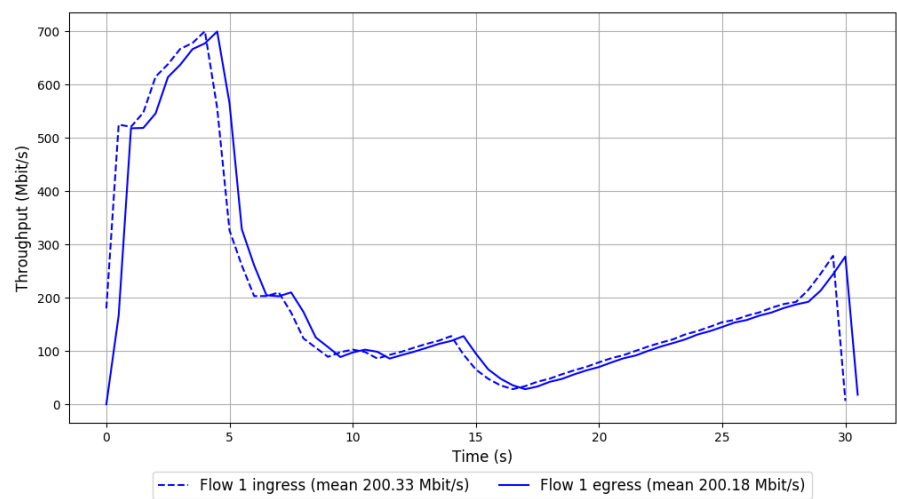


Run 7: Statistics of TCP Cubic

Start at: 2018-05-24 05:55:49
End at: 2018-05-24 05:56:19
Local clock offset: -0.032 ms
Remote clock offset: -1.322 ms

Below is generated by plot.py at 2018-05-24 08:02:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 200.18 Mbit/s
95th percentile per-packet one-way delay: 22.026 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 200.18 Mbit/s
95th percentile per-packet one-way delay: 22.026 ms
Loss rate: 0.08%

Run 7: Report of TCP Cubic — Data Link

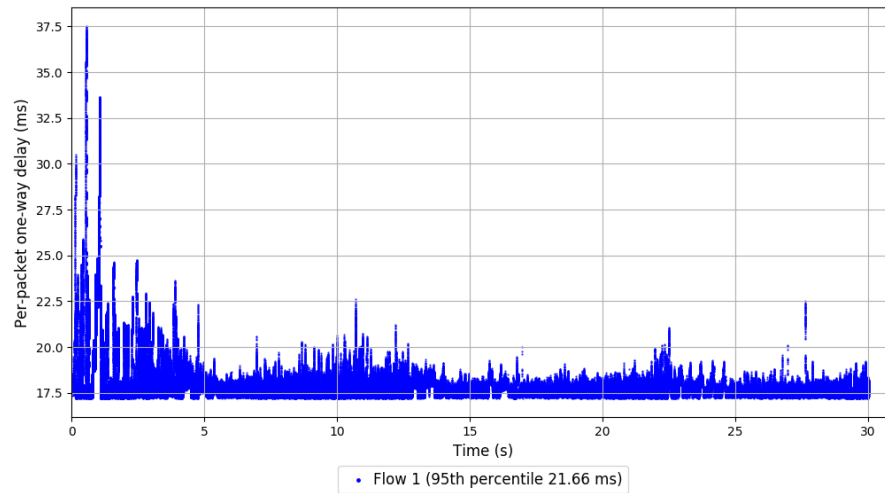
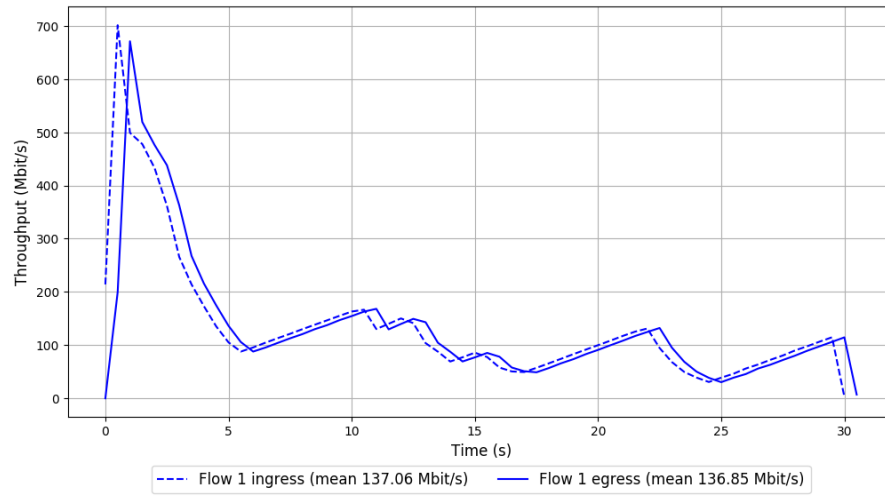


Run 8: Statistics of TCP Cubic

Start at: 2018-05-24 06:19:33
End at: 2018-05-24 06:20:03
Local clock offset: 0.023 ms
Remote clock offset: -0.154 ms

Below is generated by plot.py at 2018-05-24 08:02:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 136.85 Mbit/s
95th percentile per-packet one-way delay: 21.656 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 136.85 Mbit/s
95th percentile per-packet one-way delay: 21.656 ms
Loss rate: 0.15%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-05-24 06:43:20

End at: 2018-05-24 06:43:50

Local clock offset: 0.212 ms

Remote clock offset: 0.058 ms

Below is generated by plot.py at 2018-05-24 08:02:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.67 Mbit/s

95th percentile per-packet one-way delay: 20.551 ms

Loss rate: 0.07%

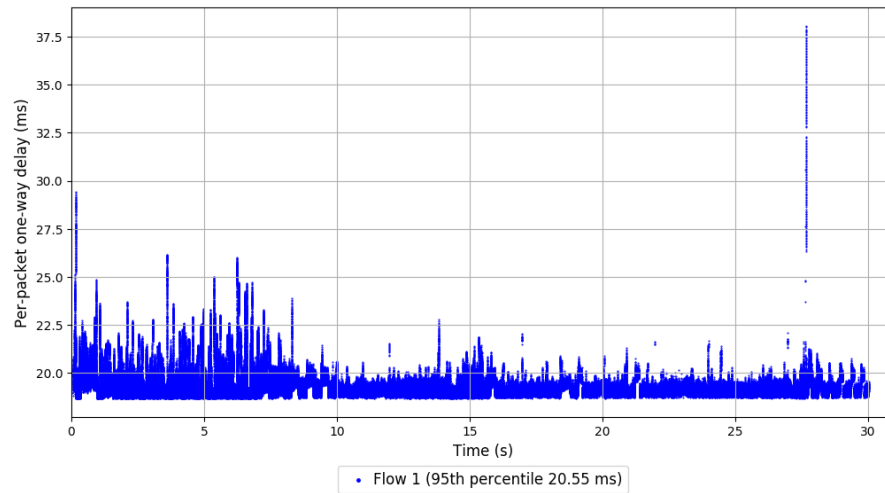
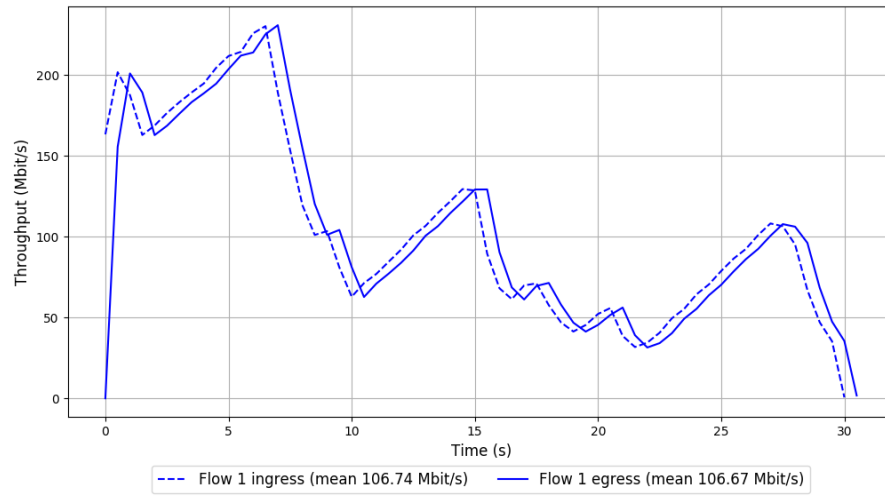
-- Flow 1:

Average throughput: 106.67 Mbit/s

95th percentile per-packet one-way delay: 20.551 ms

Loss rate: 0.07%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-05-24 07:07:15

End at: 2018-05-24 07:07:45

Local clock offset: 0.265 ms

Remote clock offset: -0.017 ms

Below is generated by plot.py at 2018-05-24 08:04:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.56 Mbit/s

95th percentile per-packet one-way delay: 22.778 ms

Loss rate: 0.13%

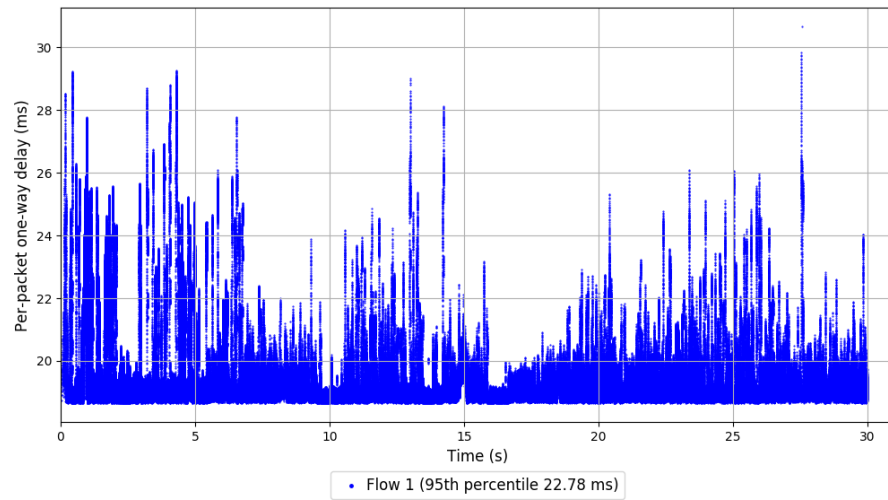
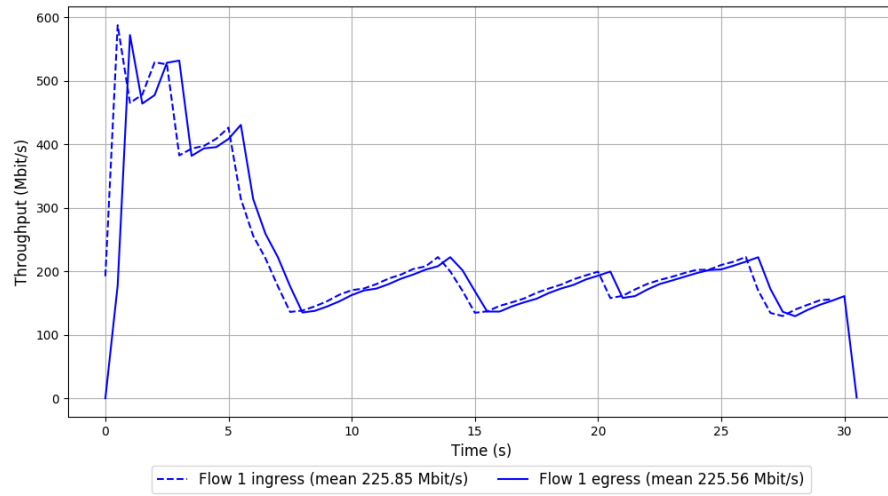
-- Flow 1:

Average throughput: 225.56 Mbit/s

95th percentile per-packet one-way delay: 22.778 ms

Loss rate: 0.13%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-05-24 03:28:21

End at: 2018-05-24 03:28:51

Local clock offset: -0.484 ms

Remote clock offset: 0.285 ms

Below is generated by plot.py at 2018-05-24 08:13:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 721.06 Mbit/s

95th percentile per-packet one-way delay: 106.330 ms

Loss rate: 2.76%

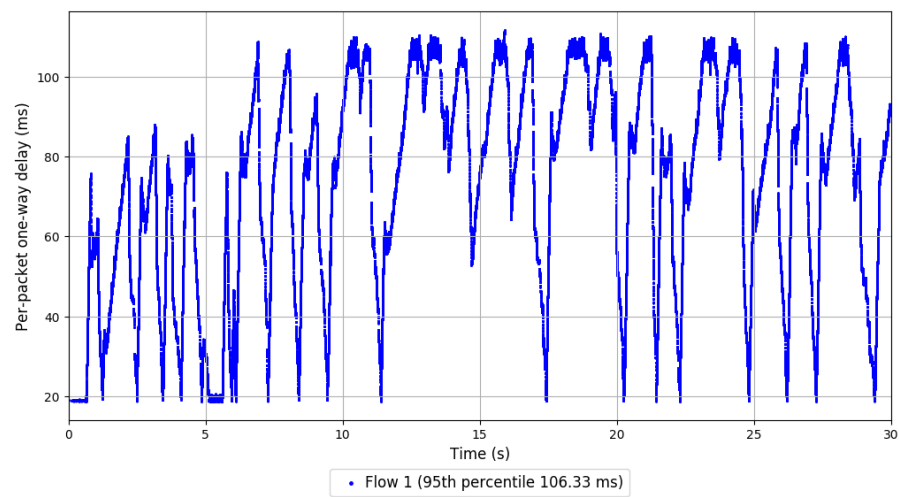
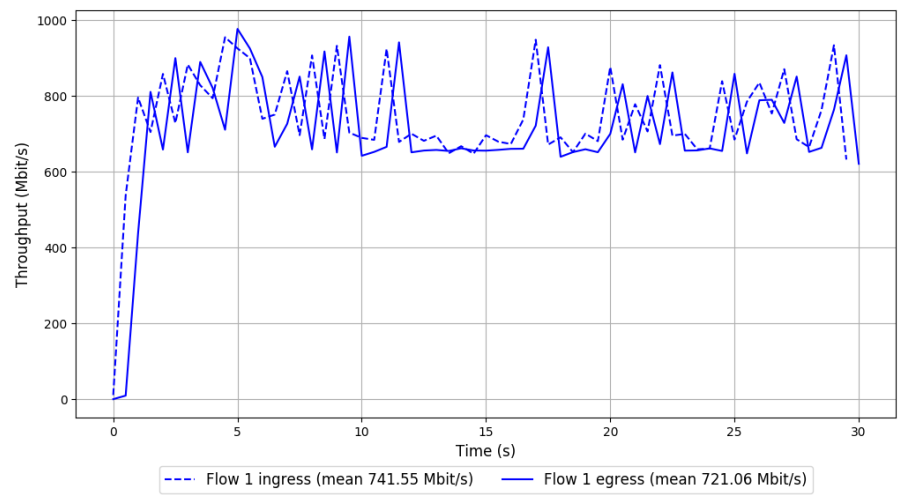
-- Flow 1:

Average throughput: 721.06 Mbit/s

95th percentile per-packet one-way delay: 106.330 ms

Loss rate: 2.76%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-05-24 03:52:10

End at: 2018-05-24 03:52:40

Local clock offset: 0.178 ms

Remote clock offset: 0.688 ms

Below is generated by plot.py at 2018-05-24 08:15:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 834.39 Mbit/s

95th percentile per-packet one-way delay: 102.391 ms

Loss rate: 3.76%

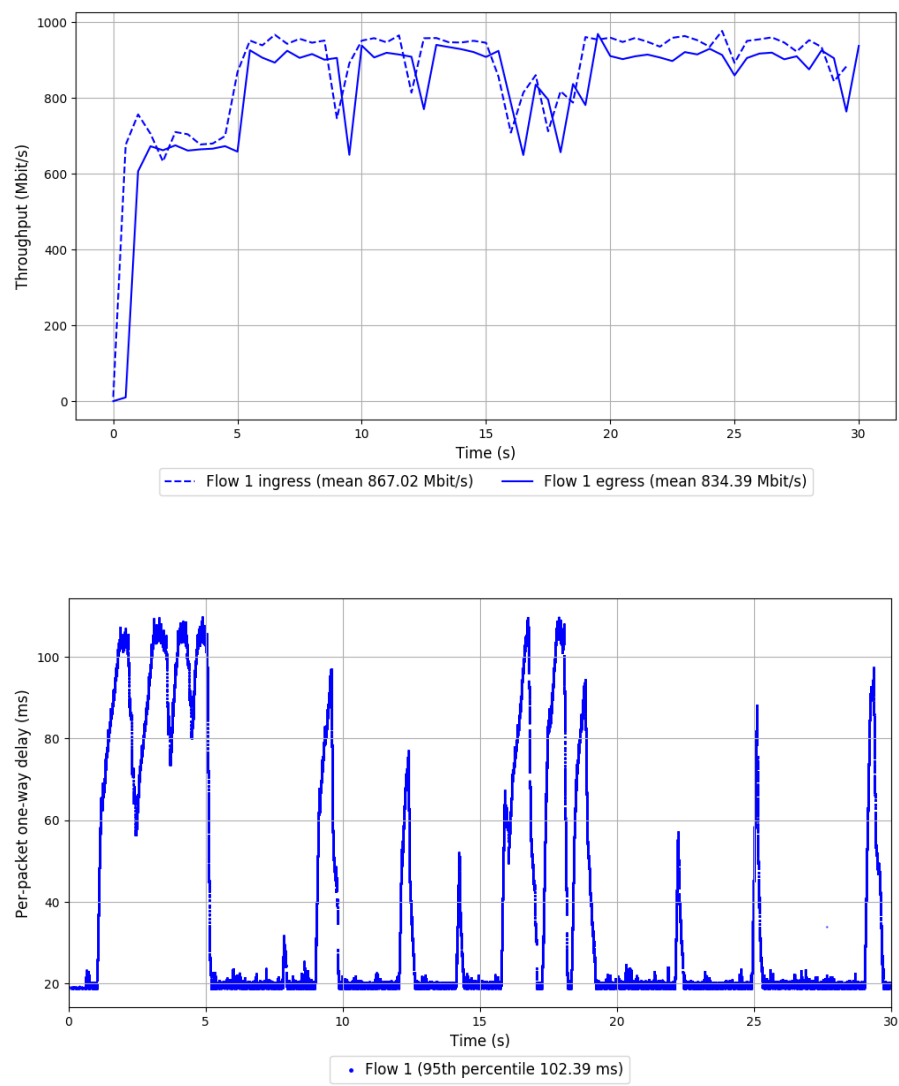
-- Flow 1:

Average throughput: 834.39 Mbit/s

95th percentile per-packet one-way delay: 102.391 ms

Loss rate: 3.76%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-05-24 04:16:10

End at: 2018-05-24 04:16:40

Local clock offset: 1.177 ms

Remote clock offset: 0.983 ms

Below is generated by plot.py at 2018-05-24 08:15:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 824.85 Mbit/s

95th percentile per-packet one-way delay: 85.868 ms

Loss rate: 4.62%

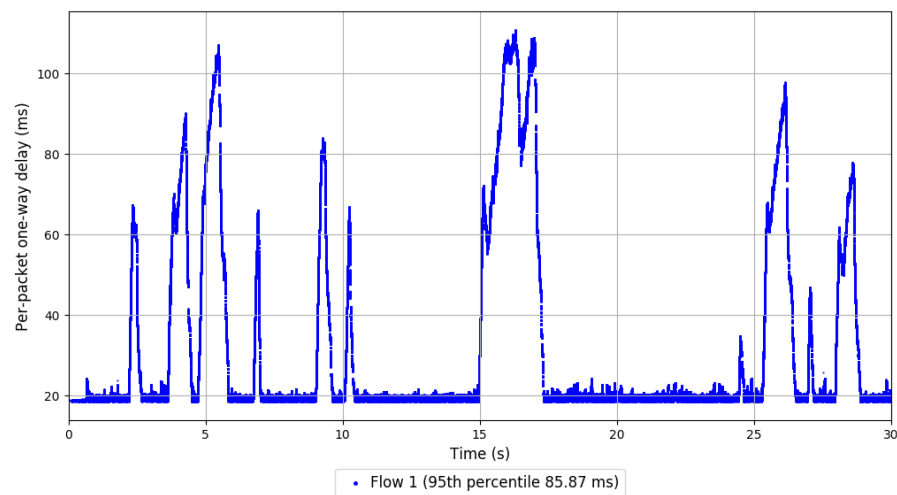
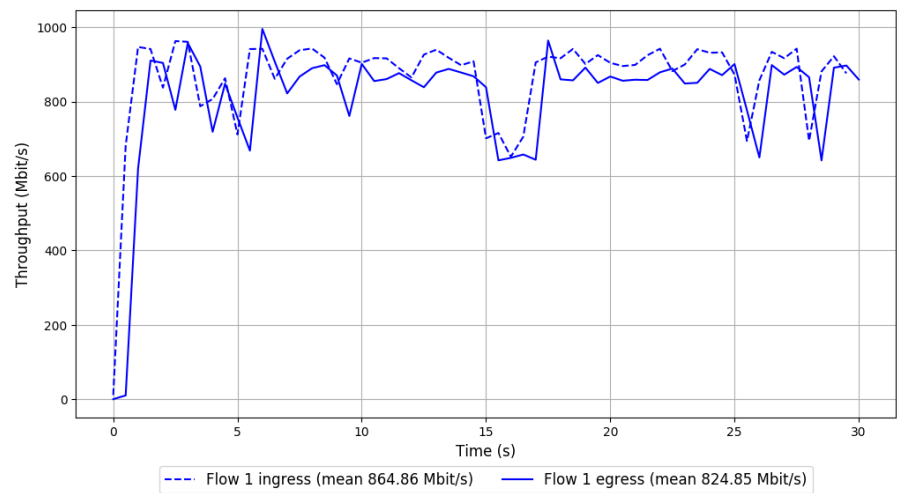
-- Flow 1:

Average throughput: 824.85 Mbit/s

95th percentile per-packet one-way delay: 85.868 ms

Loss rate: 4.62%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-05-24 04:39:54

End at: 2018-05-24 04:40:24

Local clock offset: 0.837 ms

Remote clock offset: 1.407 ms

Below is generated by plot.py at 2018-05-24 08:15:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 776.47 Mbit/s

95th percentile per-packet one-way delay: 104.767 ms

Loss rate: 6.97%

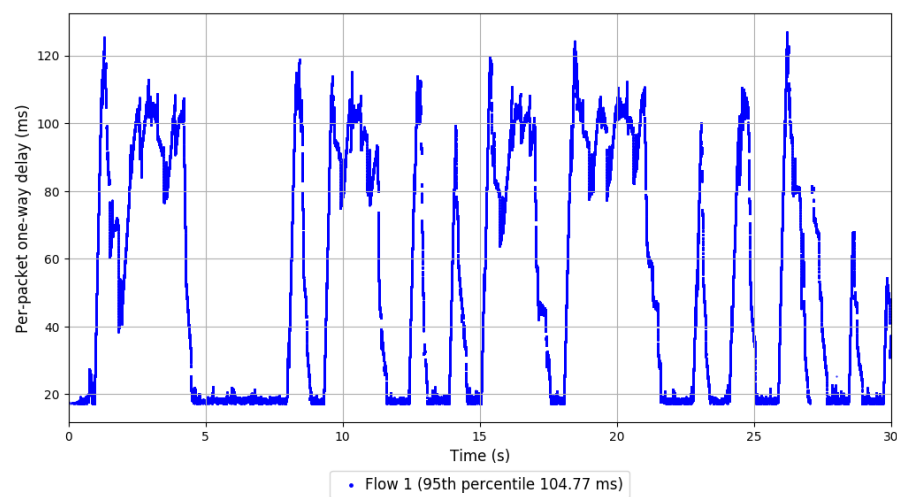
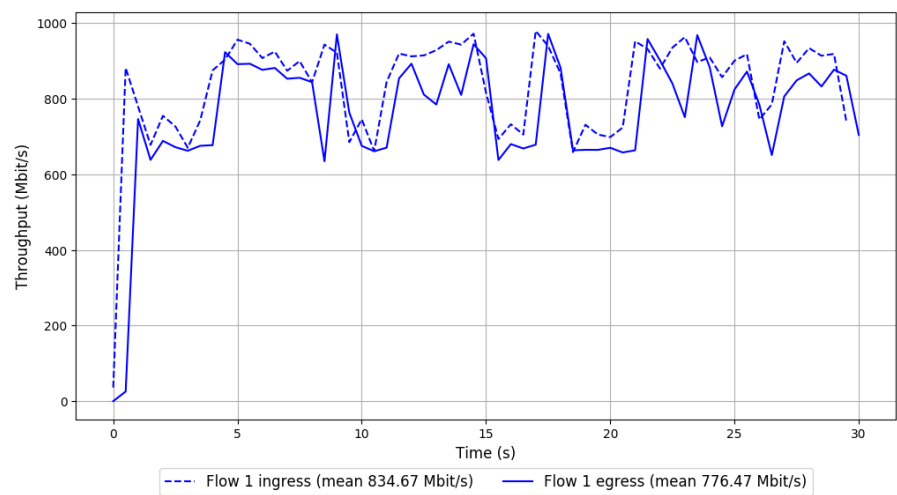
-- Flow 1:

Average throughput: 776.47 Mbit/s

95th percentile per-packet one-way delay: 104.767 ms

Loss rate: 6.97%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-05-24 05:03:42

End at: 2018-05-24 05:04:12

Local clock offset: 0.341 ms

Remote clock offset: 0.236 ms

Below is generated by plot.py at 2018-05-24 08:15:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 787.12 Mbit/s

95th percentile per-packet one-way delay: 106.254 ms

Loss rate: 3.95%

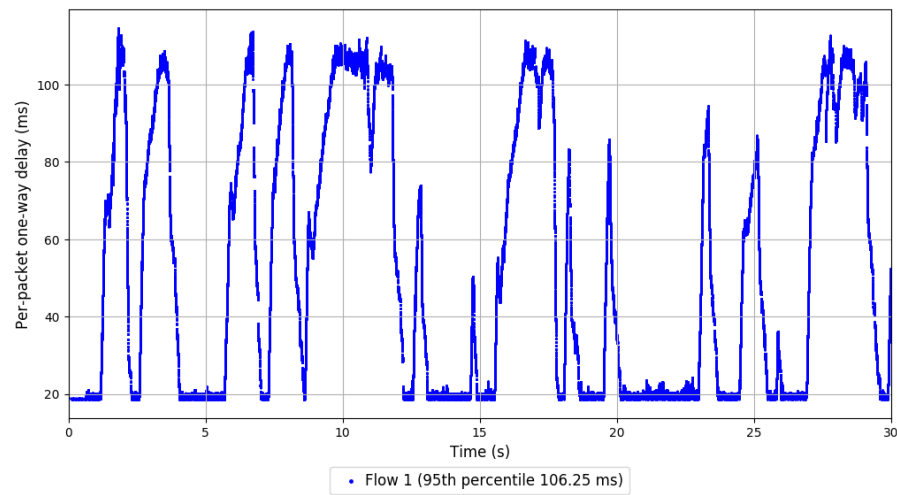
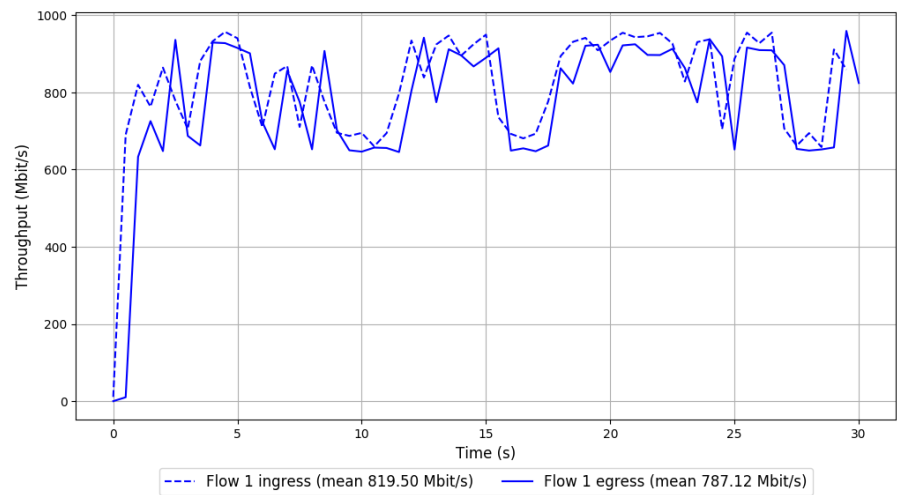
-- Flow 1:

Average throughput: 787.12 Mbit/s

95th percentile per-packet one-way delay: 106.254 ms

Loss rate: 3.95%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-05-24 05:27:38

End at: 2018-05-24 05:28:08

Local clock offset: -0.382 ms

Remote clock offset: -0.91 ms

Below is generated by plot.py at 2018-05-24 08:15:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 771.24 Mbit/s

95th percentile per-packet one-way delay: 106.659 ms

Loss rate: 4.17%

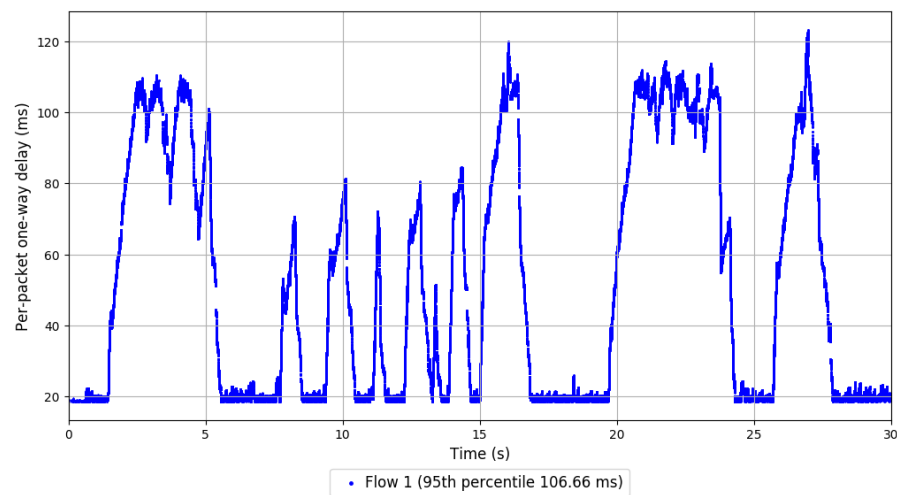
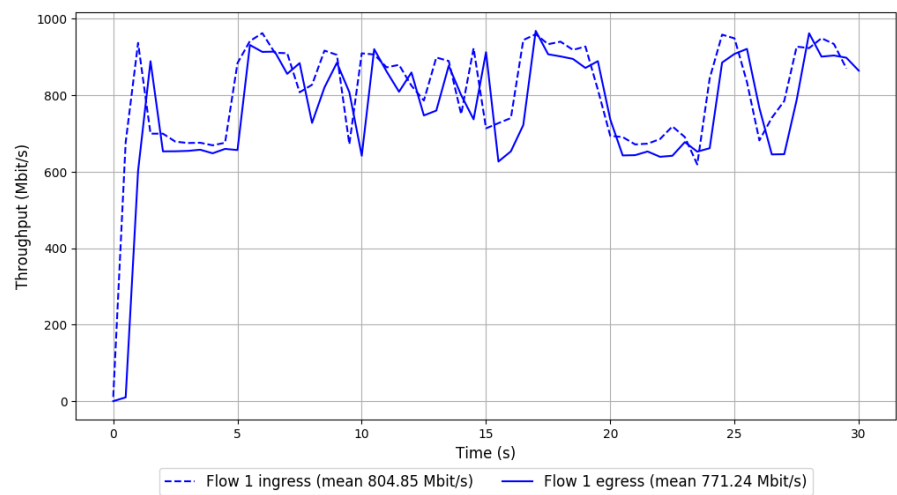
-- Flow 1:

Average throughput: 771.24 Mbit/s

95th percentile per-packet one-way delay: 106.659 ms

Loss rate: 4.17%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-05-24 05:51:20

End at: 2018-05-24 05:51:50

Local clock offset: 0.004 ms

Remote clock offset: -1.28 ms

Below is generated by plot.py at 2018-05-24 08:15:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 749.60 Mbit/s

95th percentile per-packet one-way delay: 105.044 ms

Loss rate: 3.88%

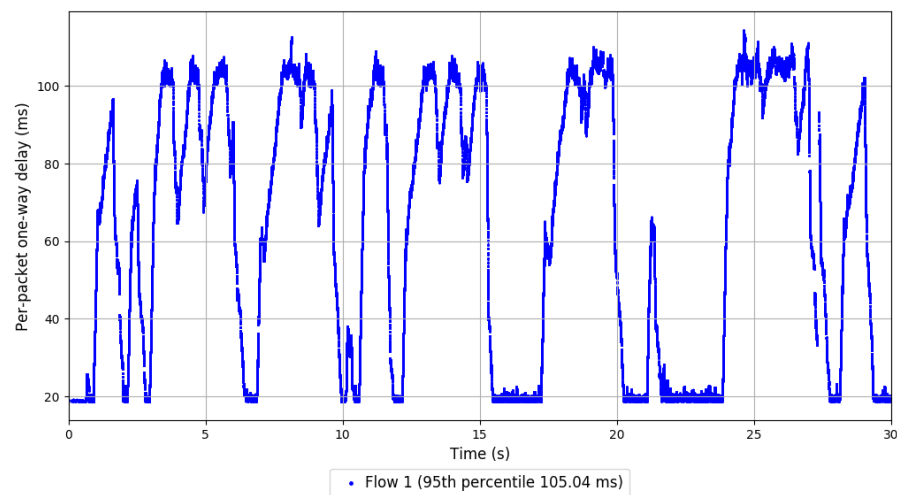
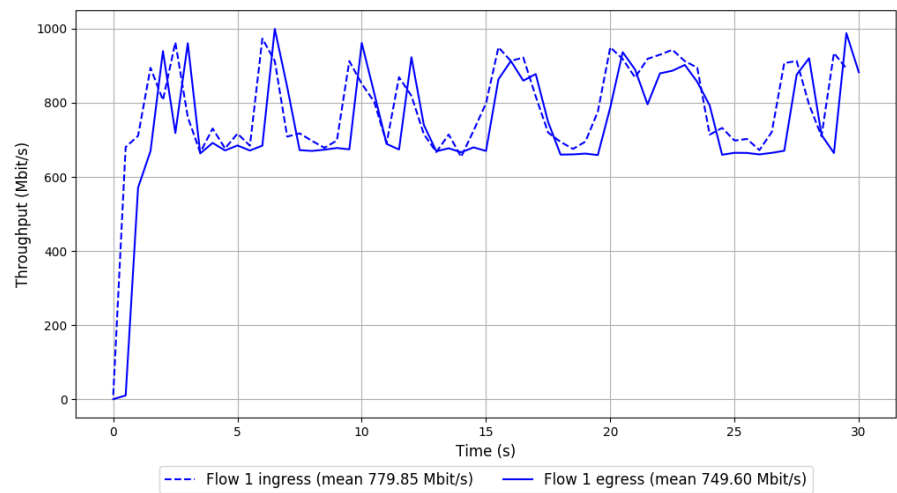
-- Flow 1:

Average throughput: 749.60 Mbit/s

95th percentile per-packet one-way delay: 105.044 ms

Loss rate: 3.88%

Run 7: Report of FillP — Data Link

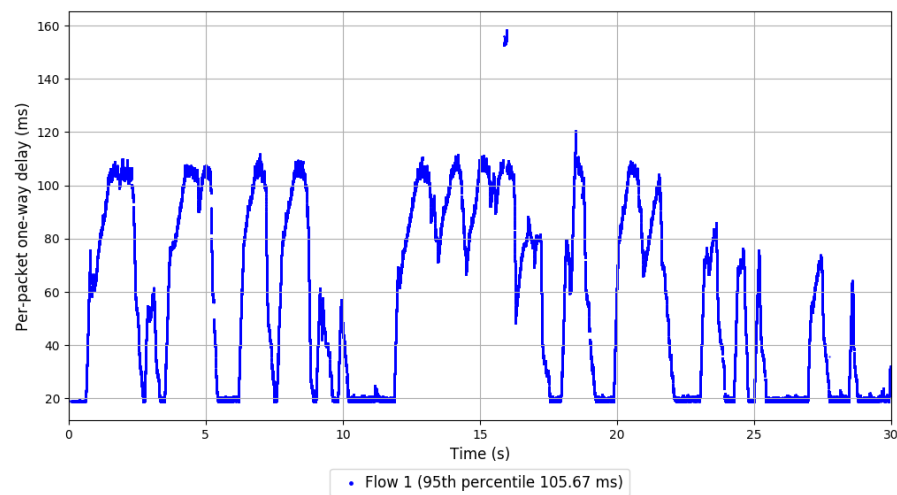
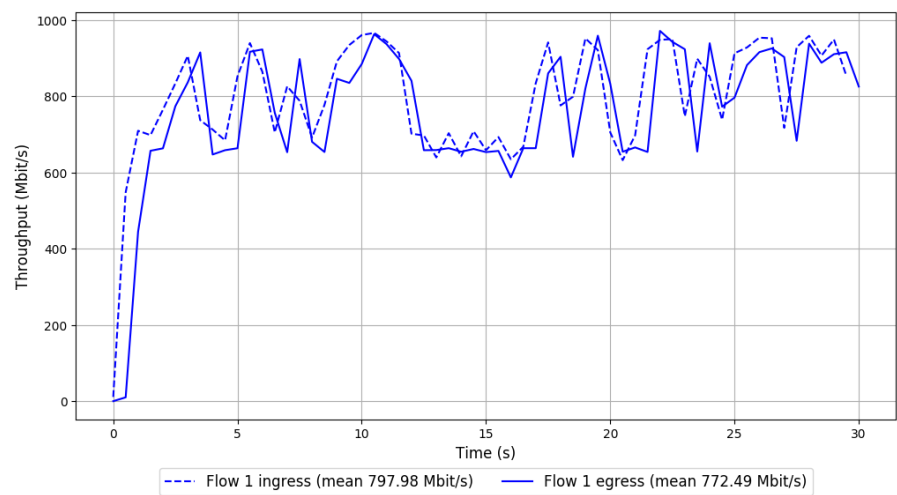


Run 8: Statistics of FillP

Start at: 2018-05-24 06:15:08
End at: 2018-05-24 06:15:38
Local clock offset: 0.03 ms
Remote clock offset: -0.294 ms

Below is generated by plot.py at 2018-05-24 08:17:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 772.49 Mbit/s
95th percentile per-packet one-way delay: 105.673 ms
Loss rate: 3.19%
-- Flow 1:
Average throughput: 772.49 Mbit/s
95th percentile per-packet one-way delay: 105.673 ms
Loss rate: 3.19%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-05-24 06:39:00

End at: 2018-05-24 06:39:30

Local clock offset: 0.192 ms

Remote clock offset: 0.114 ms

Below is generated by plot.py at 2018-05-24 08:25:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 703.63 Mbit/s

95th percentile per-packet one-way delay: 107.650 ms

Loss rate: 3.85%

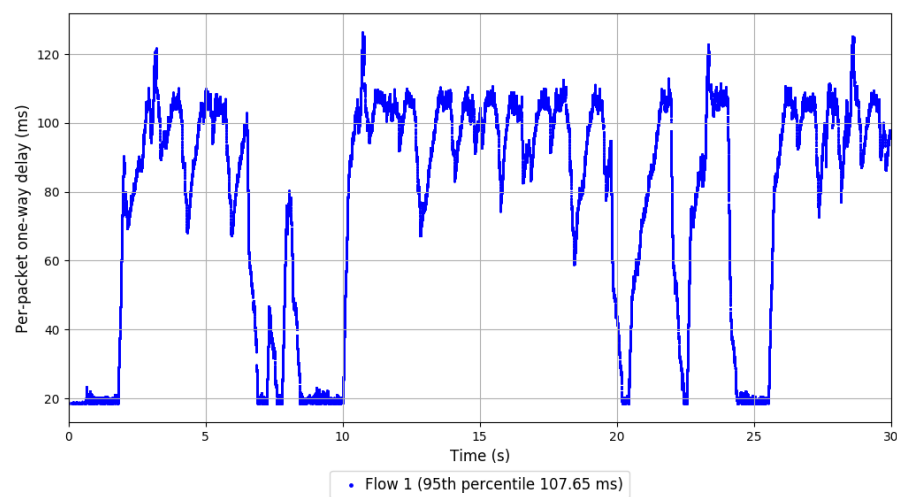
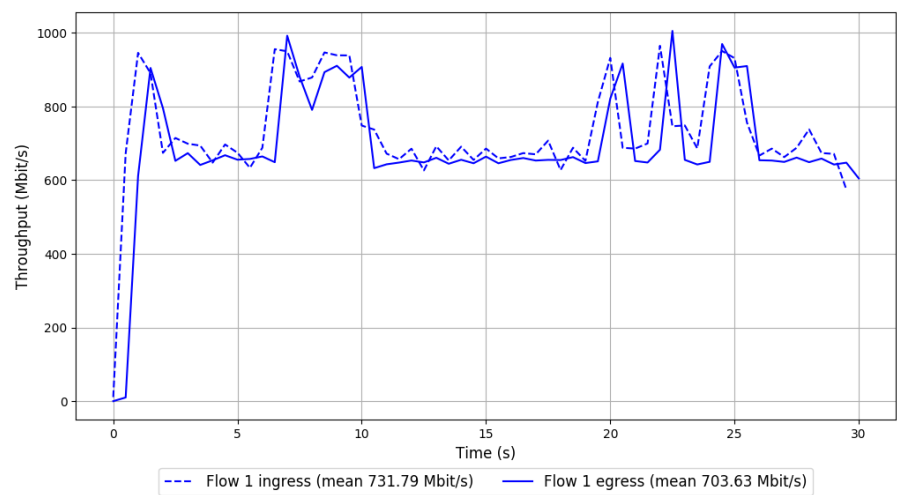
-- Flow 1:

Average throughput: 703.63 Mbit/s

95th percentile per-packet one-way delay: 107.650 ms

Loss rate: 3.85%

Run 9: Report of FillP — Data Link

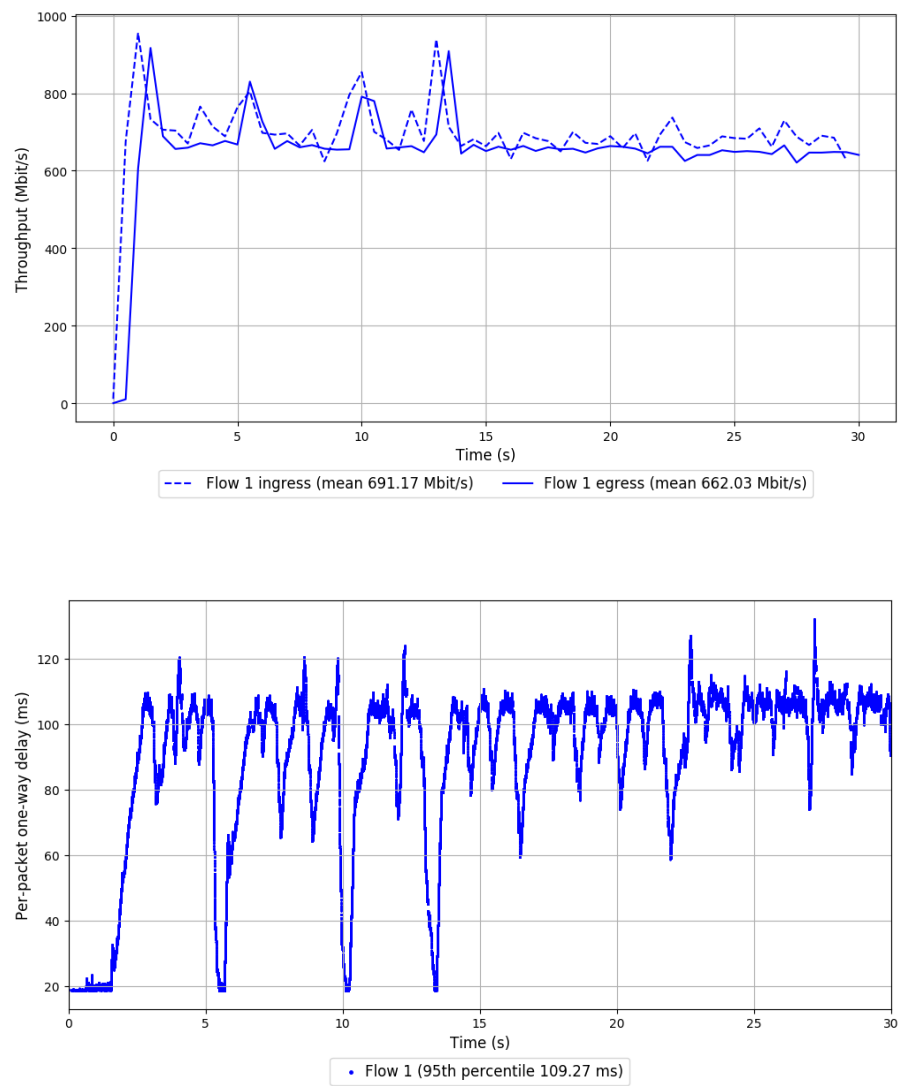


Run 10: Statistics of FillP

Start at: 2018-05-24 07:02:55
End at: 2018-05-24 07:03:25
Local clock offset: 0.265 ms
Remote clock offset: -0.089 ms

Below is generated by plot.py at 2018-05-24 08:25:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 662.03 Mbit/s
95th percentile per-packet one-way delay: 109.273 ms
Loss rate: 4.22%
-- Flow 1:
Average throughput: 662.03 Mbit/s
95th percentile per-packet one-way delay: 109.273 ms
Loss rate: 4.22%

Run 10: Report of FillP — Data Link

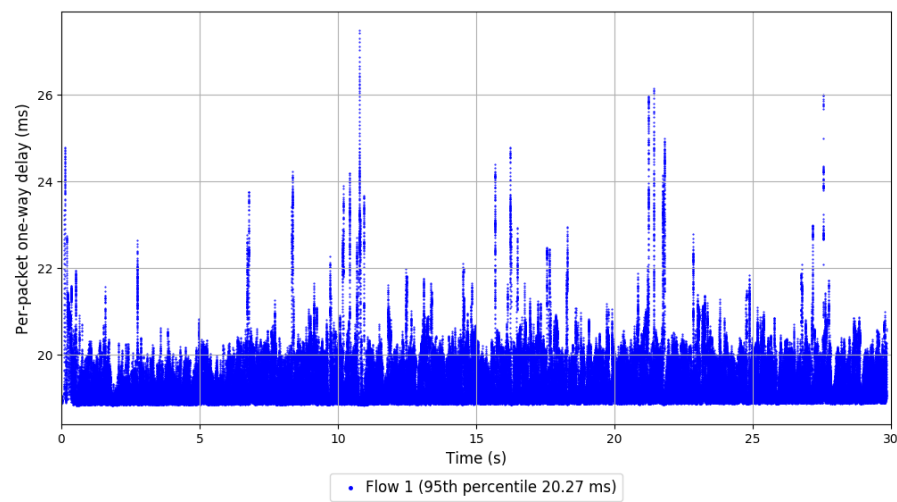
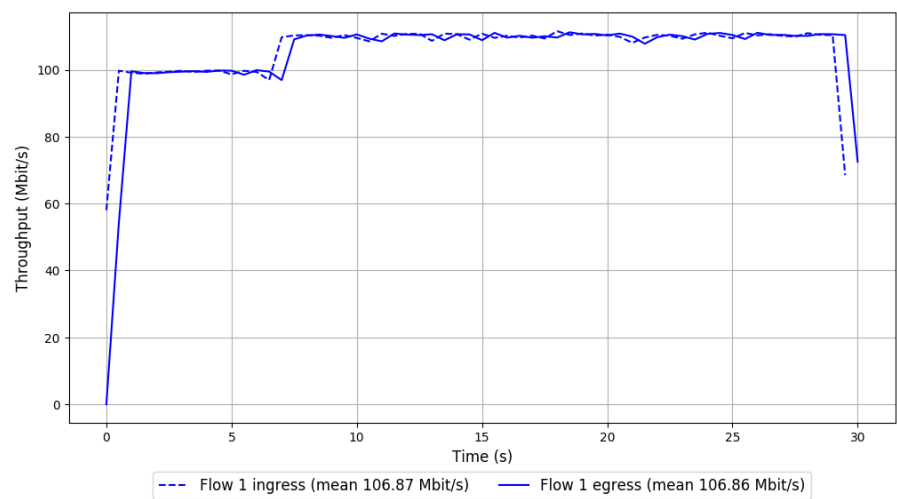


```
Run 1: Statistics of Indigo

Start at: 2018-05-24 03:30:00
End at: 2018-05-24 03:30:30
Local clock offset: -0.464 ms
Remote clock offset: 0.252 ms

# Below is generated by plot.py at 2018-05-24 08:25:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 106.86 Mbit/s
95th percentile per-packet one-way delay: 20.269 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 106.86 Mbit/s
95th percentile per-packet one-way delay: 20.269 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-05-24 03:53:51

End at: 2018-05-24 03:54:21

Local clock offset: 0.106 ms

Remote clock offset: 0.658 ms

Below is generated by plot.py at 2018-05-24 08:25:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.74 Mbit/s

95th percentile per-packet one-way delay: 20.694 ms

Loss rate: 0.00%

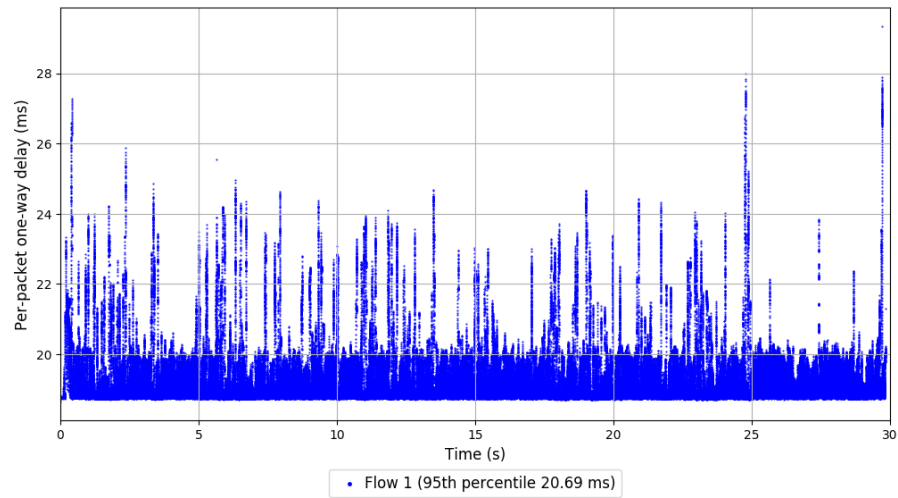
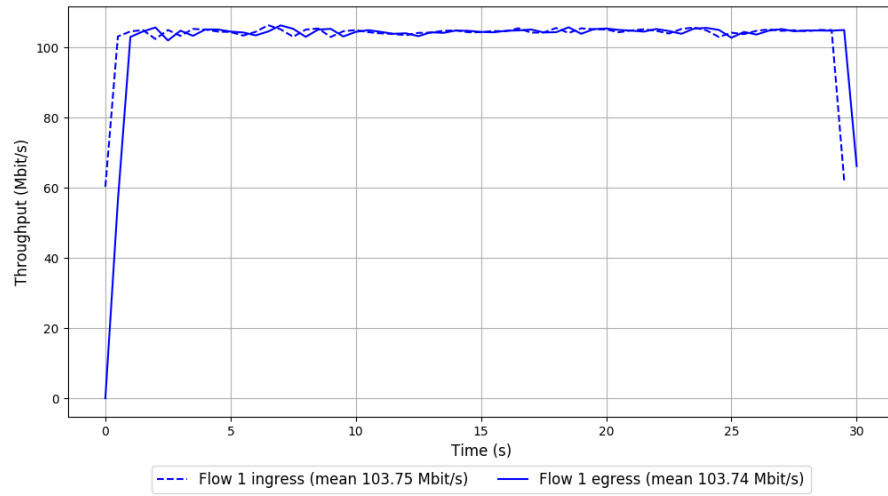
-- Flow 1:

Average throughput: 103.74 Mbit/s

95th percentile per-packet one-way delay: 20.694 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-05-24 04:17:51

End at: 2018-05-24 04:18:21

Local clock offset: 1.206 ms

Remote clock offset: 1.124 ms

Below is generated by plot.py at 2018-05-24 08:25:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.78 Mbit/s

95th percentile per-packet one-way delay: 26.643 ms

Loss rate: 0.00%

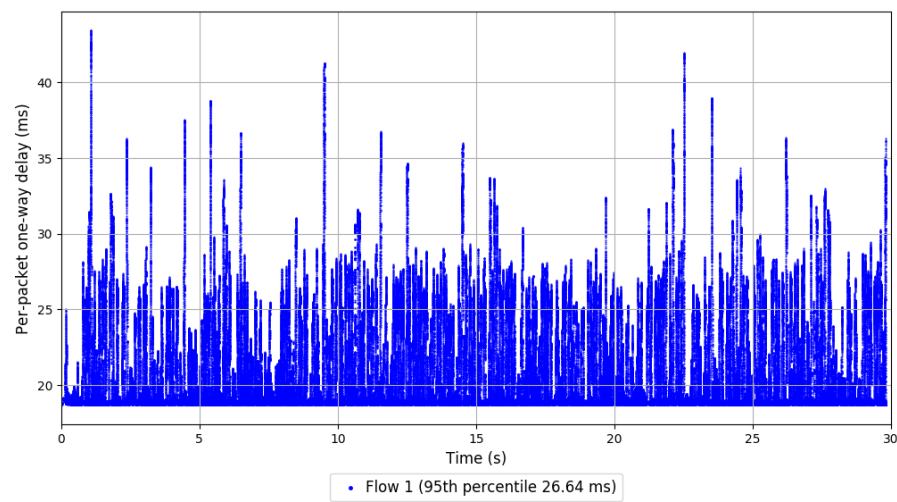
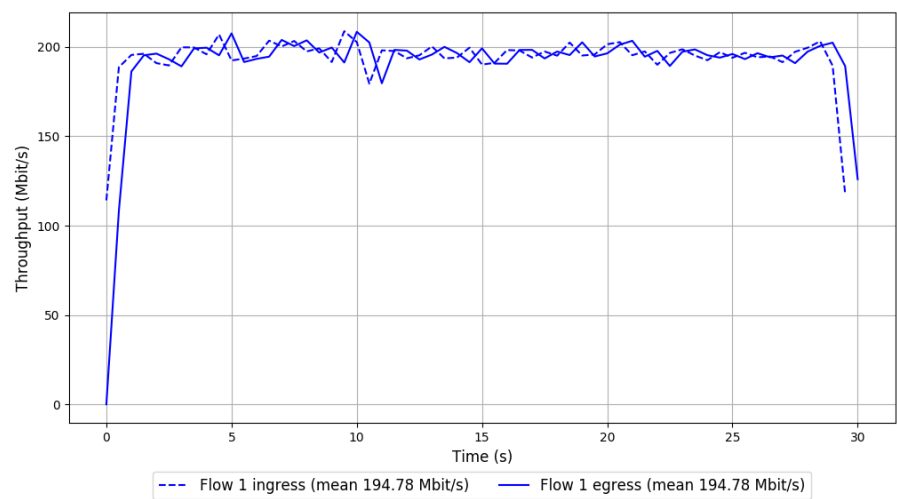
-- Flow 1:

Average throughput: 194.78 Mbit/s

95th percentile per-packet one-way delay: 26.643 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-05-24 04:41:38

End at: 2018-05-24 04:42:08

Local clock offset: 0.868 ms

Remote clock offset: 1.494 ms

Below is generated by plot.py at 2018-05-24 08:25:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.49 Mbit/s

95th percentile per-packet one-way delay: 27.007 ms

Loss rate: 0.02%

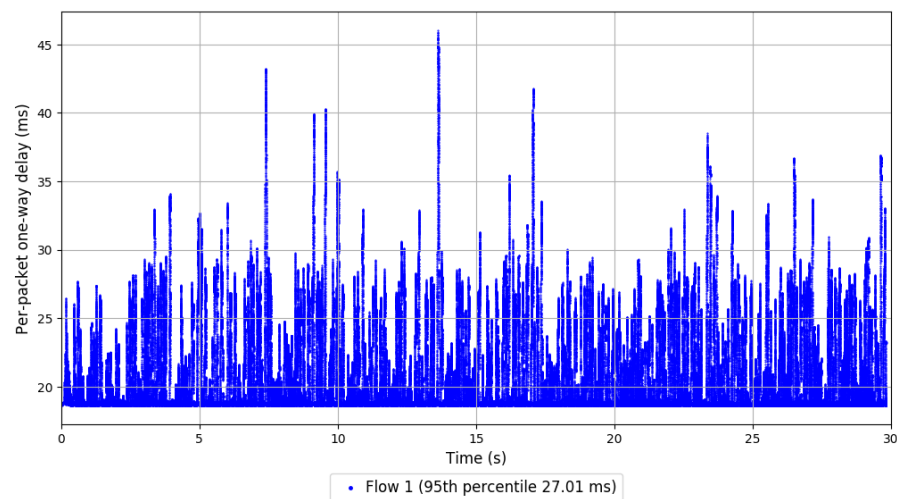
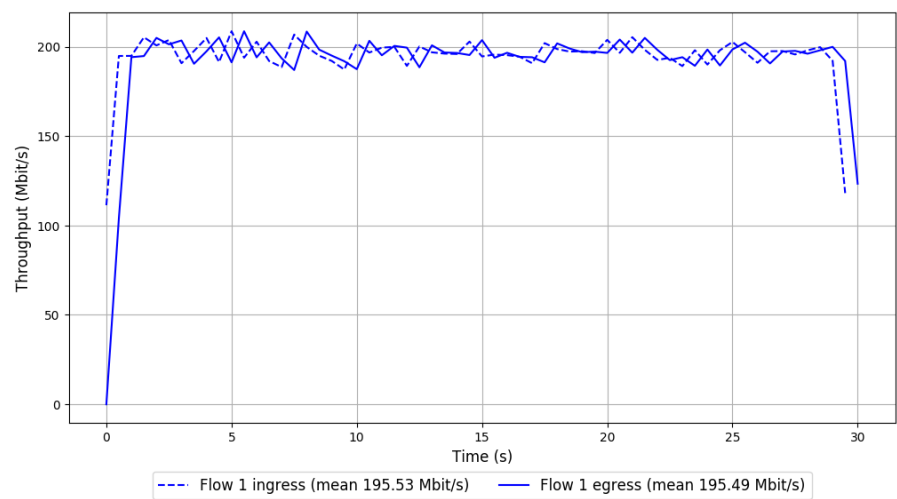
-- Flow 1:

Average throughput: 195.49 Mbit/s

95th percentile per-packet one-way delay: 27.007 ms

Loss rate: 0.02%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

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

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

Local clock offset: 0.159 ms

Remote clock offset: 0.117 ms

Below is generated by plot.py at 2018-05-24 08:25:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.61 Mbit/s

95th percentile per-packet one-way delay: 27.467 ms

Loss rate: 0.04%

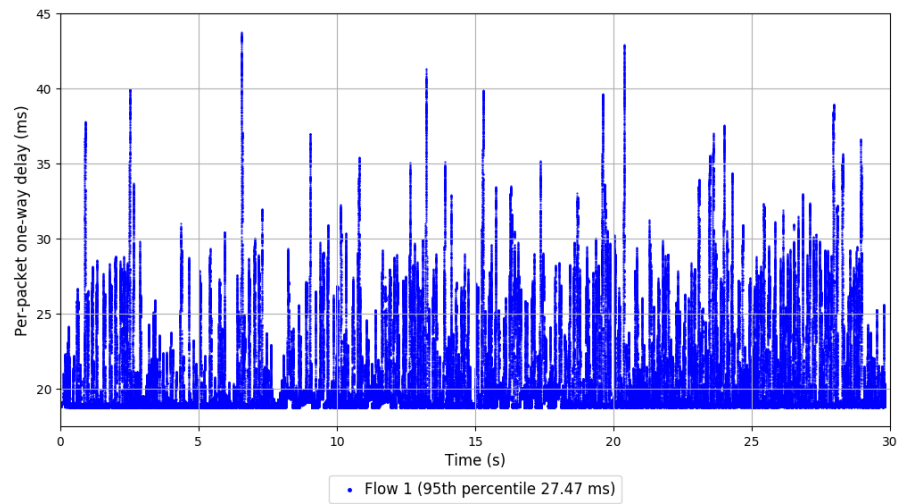
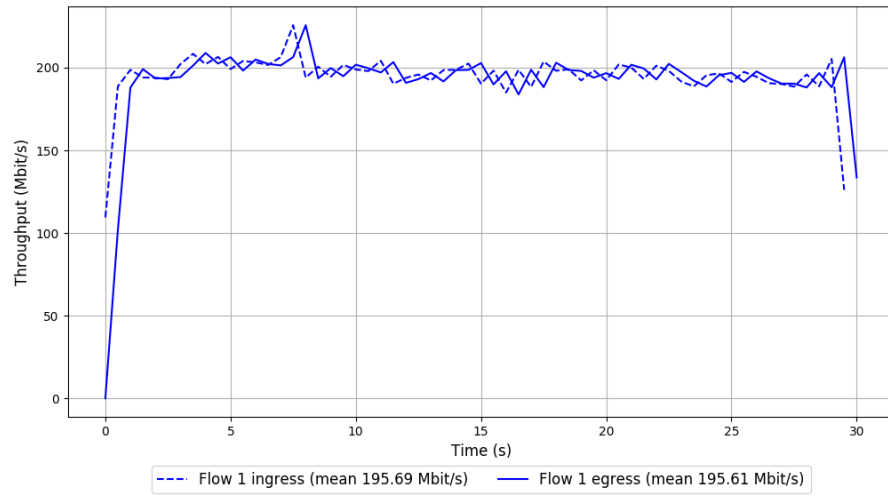
-- Flow 1:

Average throughput: 195.61 Mbit/s

95th percentile per-packet one-way delay: 27.467 ms

Loss rate: 0.04%

Run 5: Report of Indigo — Data Link

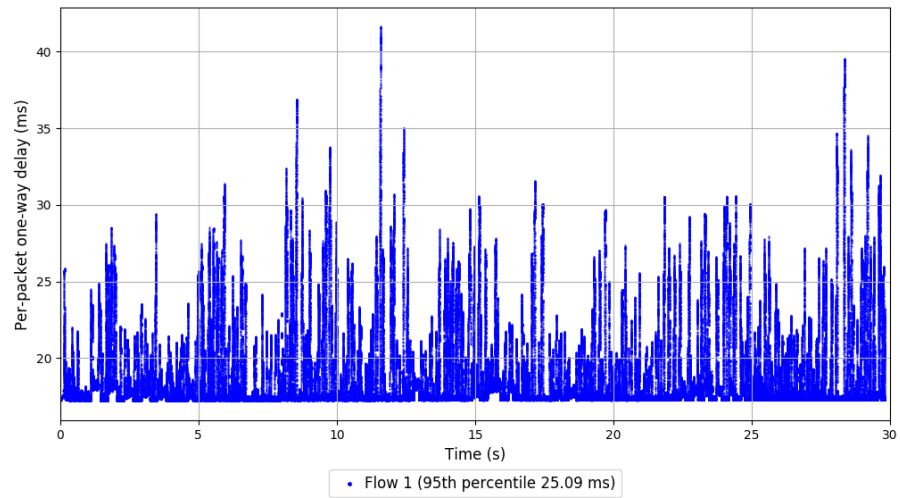
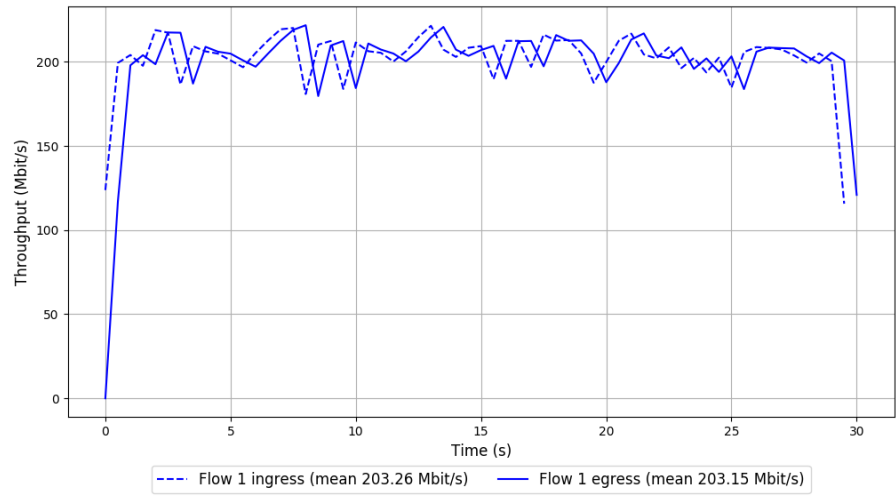


Run 6: Statistics of Indigo

Start at: 2018-05-24 05:29:17
End at: 2018-05-24 05:29:47
Local clock offset: -0.414 ms
Remote clock offset: -0.923 ms

Below is generated by plot.py at 2018-05-24 08:25:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 203.15 Mbit/s
95th percentile per-packet one-way delay: 25.093 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 203.15 Mbit/s
95th percentile per-packet one-way delay: 25.093 ms
Loss rate: 0.05%

Run 6: Report of Indigo — Data Link

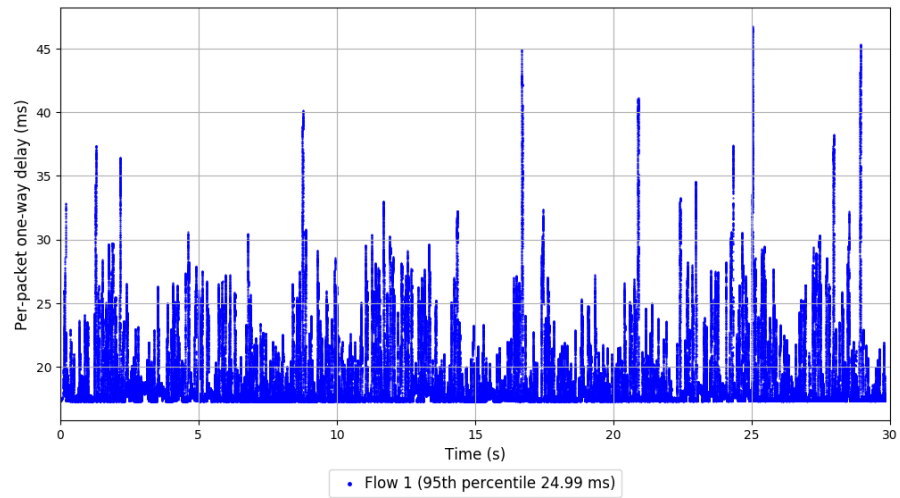
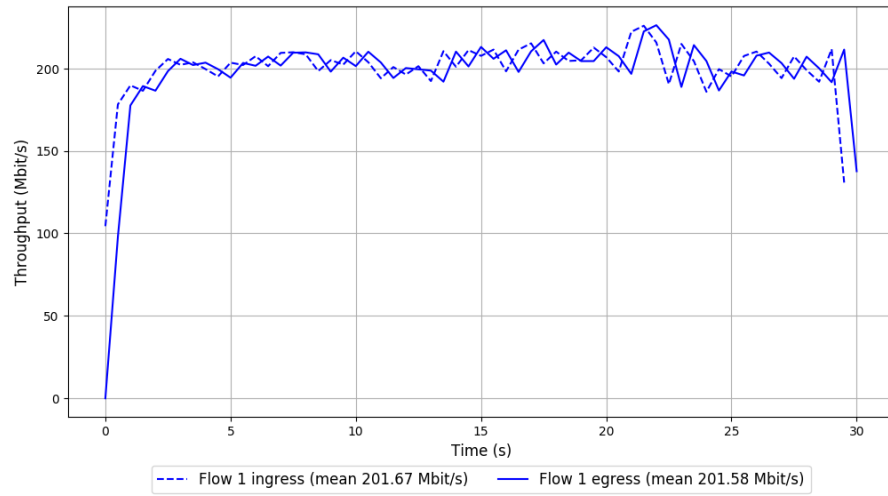


Run 7: Statistics of Indigo

Start at: 2018-05-24 05:53:06
End at: 2018-05-24 05:53:36
Local clock offset: -0.099 ms
Remote clock offset: -1.331 ms

Below is generated by plot.py at 2018-05-24 08:25:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 201.58 Mbit/s
95th percentile per-packet one-way delay: 24.991 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 201.58 Mbit/s
95th percentile per-packet one-way delay: 24.991 ms
Loss rate: 0.04%

Run 7: Report of Indigo — Data Link

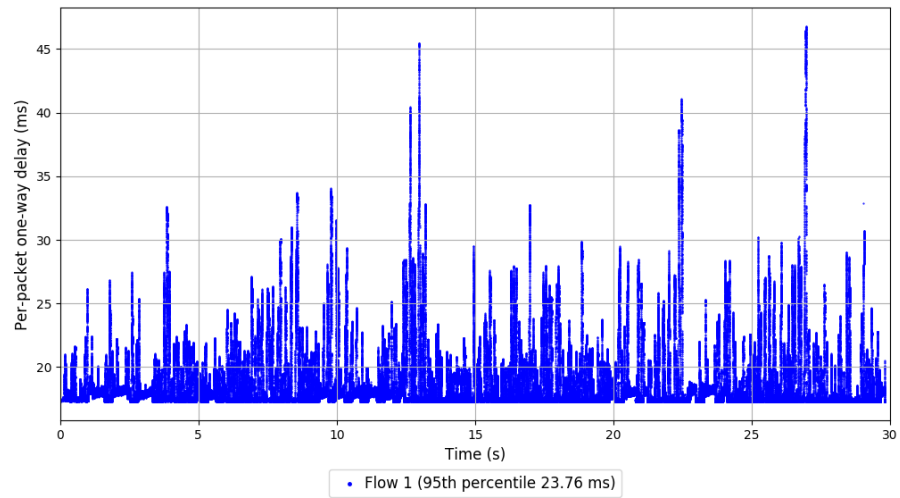
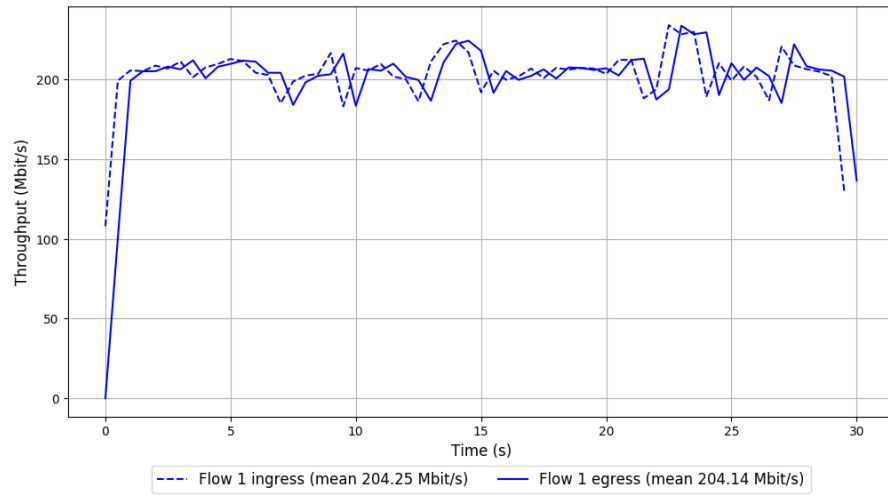


Run 8: Statistics of Indigo

Start at: 2018-05-24 06:16:49
End at: 2018-05-24 06:17:19
Local clock offset: 0.033 ms
Remote clock offset: -0.185 ms

Below is generated by plot.py at 2018-05-24 08:25:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 204.14 Mbit/s
95th percentile per-packet one-way delay: 23.760 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 204.14 Mbit/s
95th percentile per-packet one-way delay: 23.760 ms
Loss rate: 0.05%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-05-24 06:40:37

End at: 2018-05-24 06:41:07

Local clock offset: 0.108 ms

Remote clock offset: 0.175 ms

Below is generated by plot.py at 2018-05-24 08:25:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.02 Mbit/s

95th percentile per-packet one-way delay: 23.477 ms

Loss rate: 0.04%

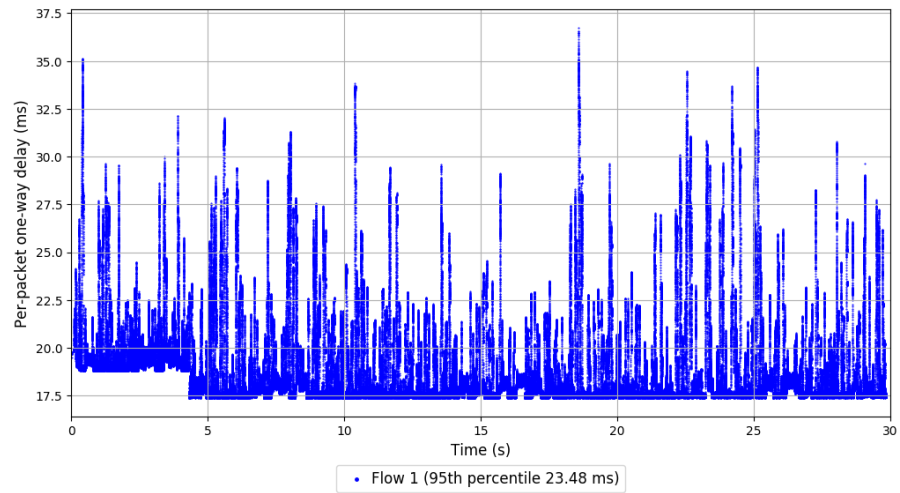
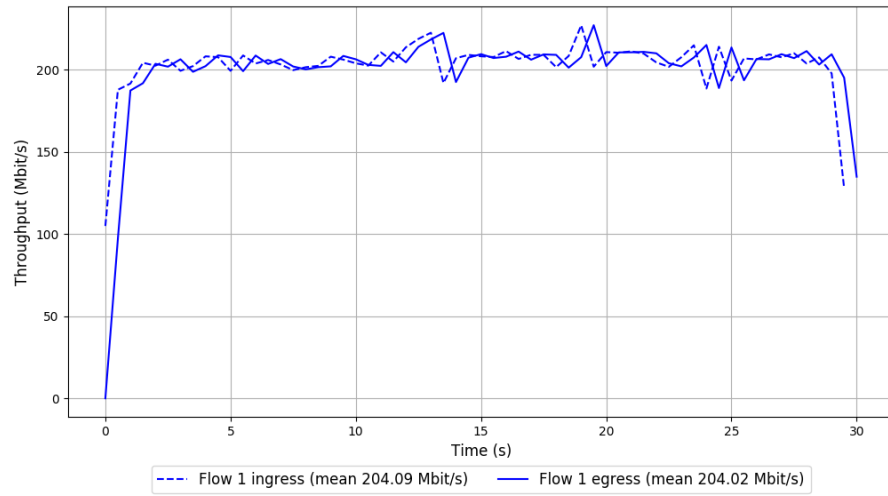
-- Flow 1:

Average throughput: 204.02 Mbit/s

95th percentile per-packet one-way delay: 23.477 ms

Loss rate: 0.04%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-05-24 07:04:31

End at: 2018-05-24 07:05:01

Local clock offset: 0.278 ms

Remote clock offset: -0.039 ms

Below is generated by plot.py at 2018-05-24 08:25:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.76 Mbit/s

95th percentile per-packet one-way delay: 26.690 ms

Loss rate: 0.05%

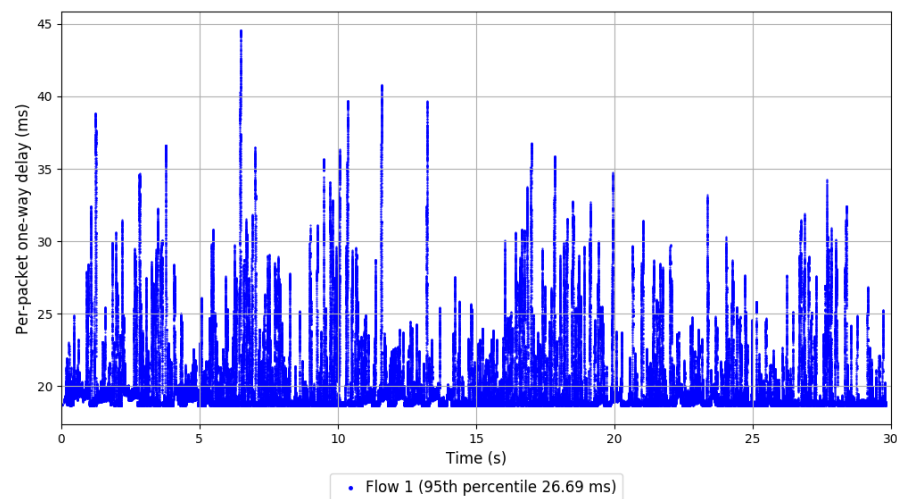
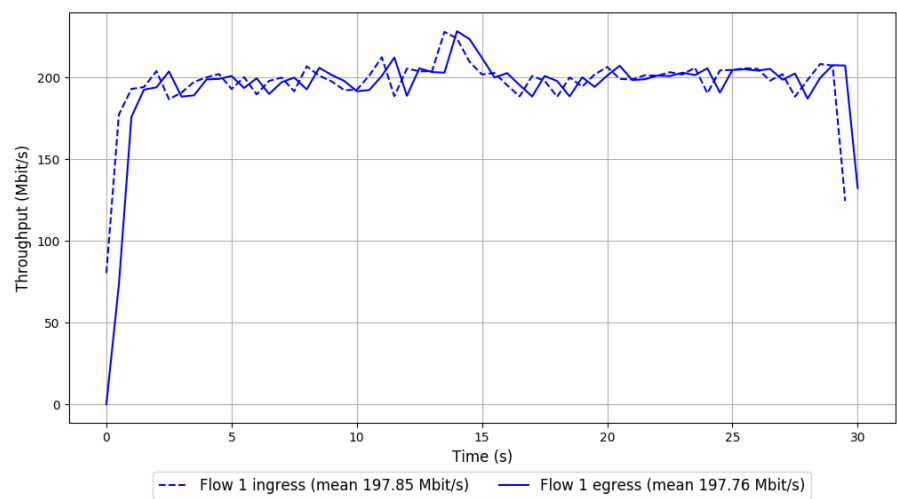
-- Flow 1:

Average throughput: 197.76 Mbit/s

95th percentile per-packet one-way delay: 26.690 ms

Loss rate: 0.05%

Run 10: Report of Indigo — Data Link



Run 1: Statistics of LEDBAT

Start at: 2018-05-24 03:47:59

End at: 2018-05-24 03:48:29

Local clock offset: 0.231 ms

Remote clock offset: 0.585 ms

Below is generated by plot.py at 2018-05-24 08:25:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 342.61 Mbit/s

95th percentile per-packet one-way delay: 18.959 ms

Loss rate: 0.07%

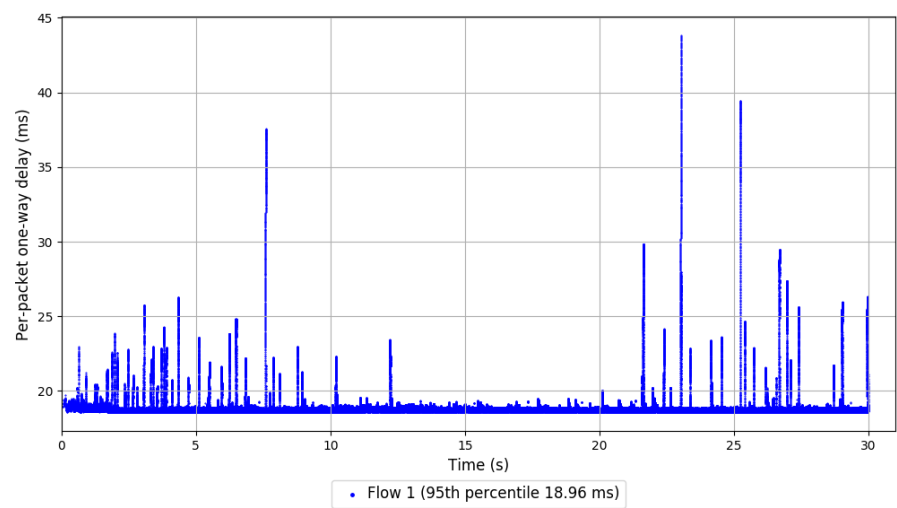
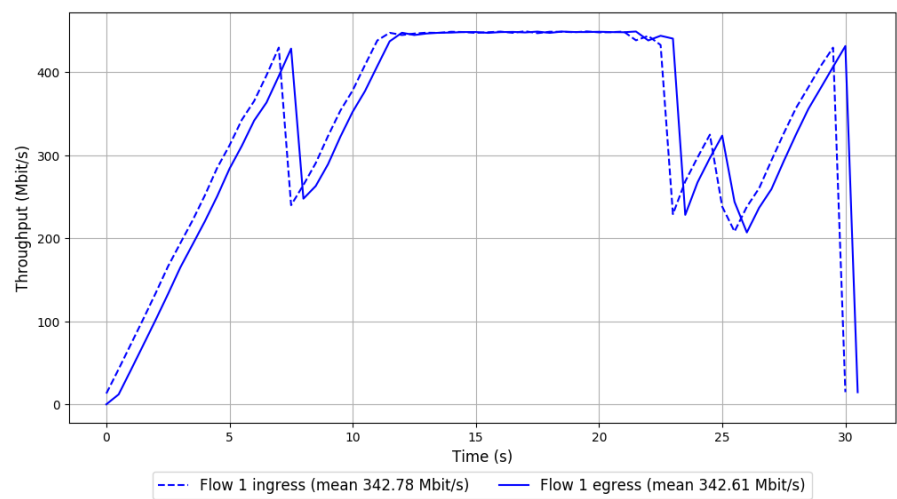
-- Flow 1:

Average throughput: 342.61 Mbit/s

95th percentile per-packet one-way delay: 18.959 ms

Loss rate: 0.07%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-05-24 04:12:00

End at: 2018-05-24 04:12:30

Local clock offset: 1.081 ms

Remote clock offset: 0.975 ms

Below is generated by plot.py at 2018-05-24 08:25:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 375.73 Mbit/s

95th percentile per-packet one-way delay: 19.121 ms

Loss rate: 0.00%

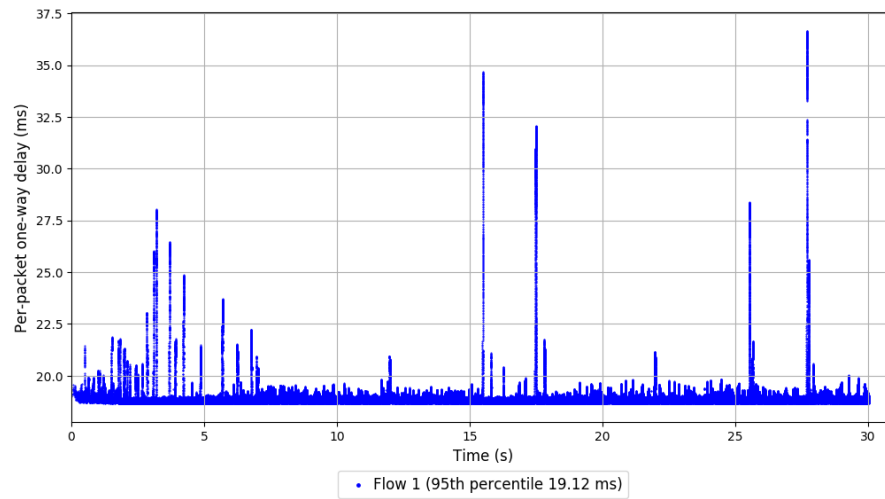
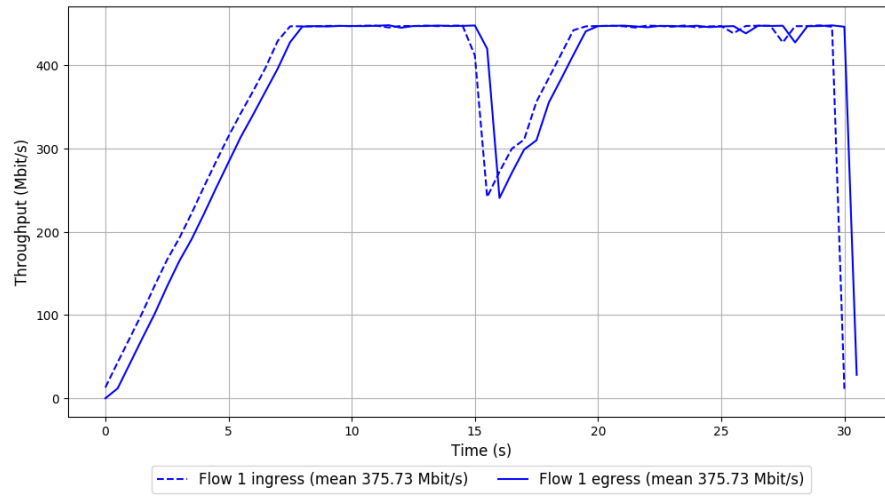
-- Flow 1:

Average throughput: 375.73 Mbit/s

95th percentile per-packet one-way delay: 19.121 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-05-24 04:35:50

End at: 2018-05-24 04:36:20

Local clock offset: 1.021 ms

Remote clock offset: 1.354 ms

Below is generated by plot.py at 2018-05-24 08:25:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 238.43 Mbit/s

95th percentile per-packet one-way delay: 18.459 ms

Loss rate: 0.02%

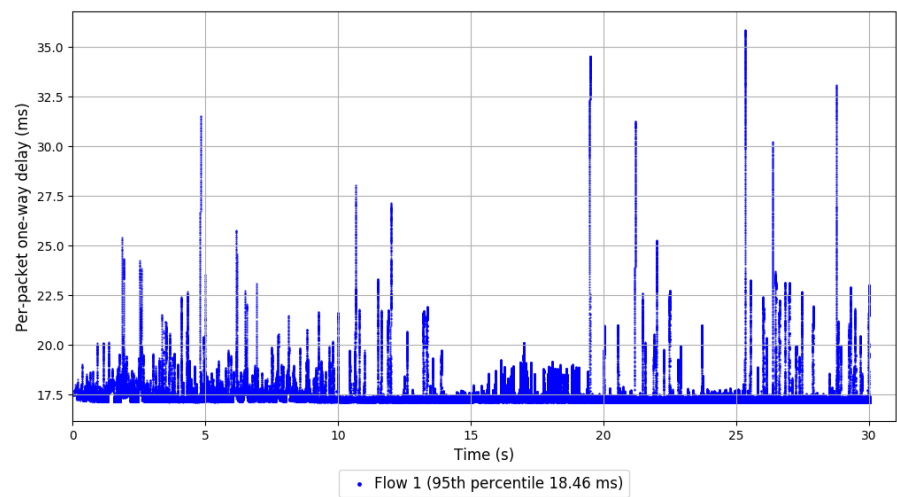
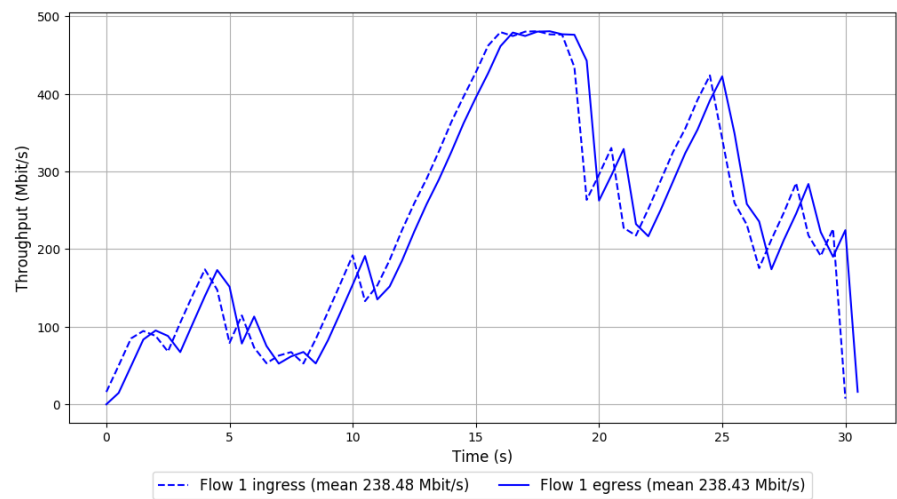
-- Flow 1:

Average throughput: 238.43 Mbit/s

95th percentile per-packet one-way delay: 18.459 ms

Loss rate: 0.02%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-05-24 04:59:42

End at: 2018-05-24 05:00:12

Local clock offset: 0.633 ms

Remote clock offset: 0.758 ms

Below is generated by plot.py at 2018-05-24 08:25:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 127.85 Mbit/s

95th percentile per-packet one-way delay: 19.908 ms

Loss rate: 0.13%

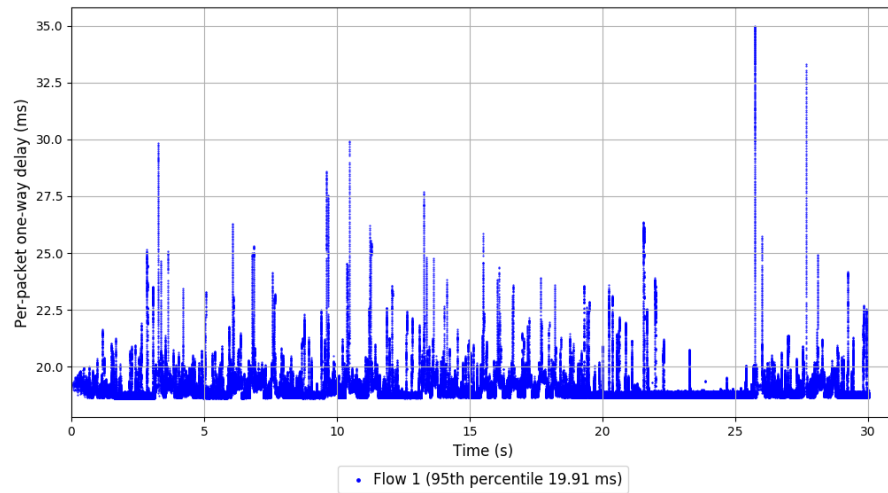
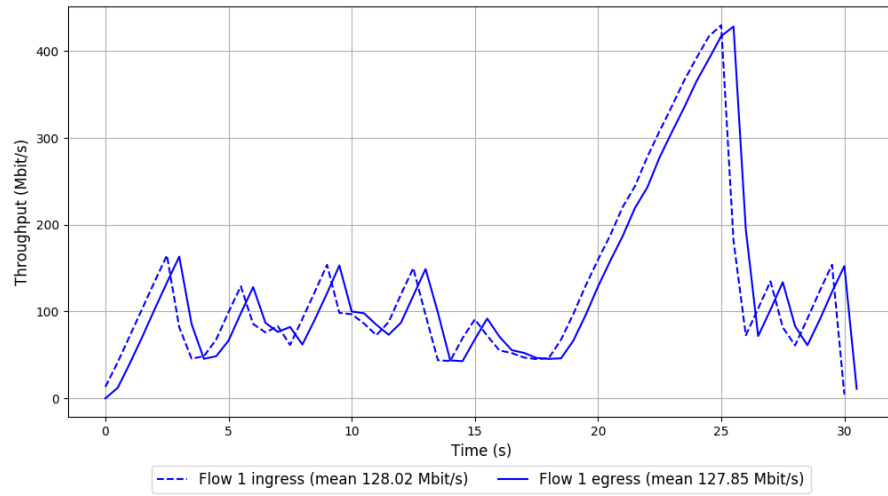
-- Flow 1:

Average throughput: 127.85 Mbit/s

95th percentile per-packet one-way delay: 19.908 ms

Loss rate: 0.13%

Run 4: Report of LEDBAT — Data Link

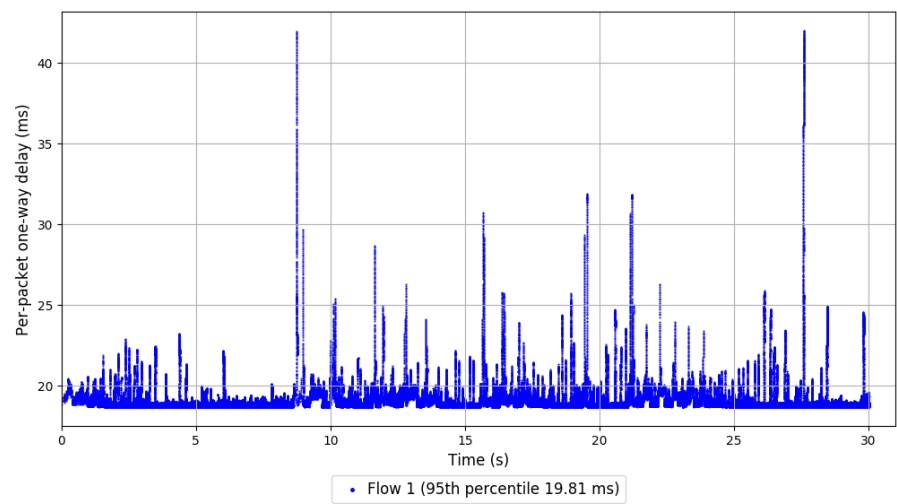
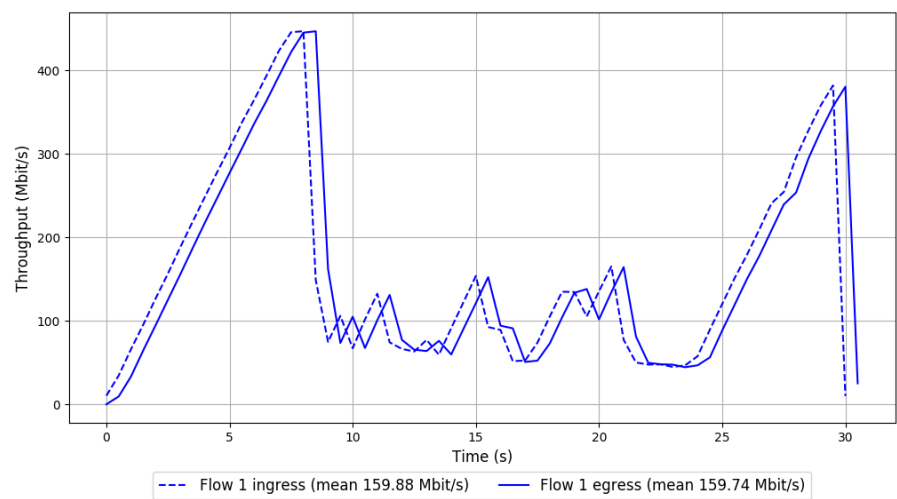


Run 5: Statistics of LEDBAT

Start at: 2018-05-24 05:23:36
End at: 2018-05-24 05:24:06
Local clock offset: -0.294 ms
Remote clock offset: -0.749 ms

Below is generated by plot.py at 2018-05-24 08:25:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 159.74 Mbit/s
95th percentile per-packet one-way delay: 19.809 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 159.74 Mbit/s
95th percentile per-packet one-way delay: 19.809 ms
Loss rate: 0.09%

Run 5: Report of LEDBAT — Data Link

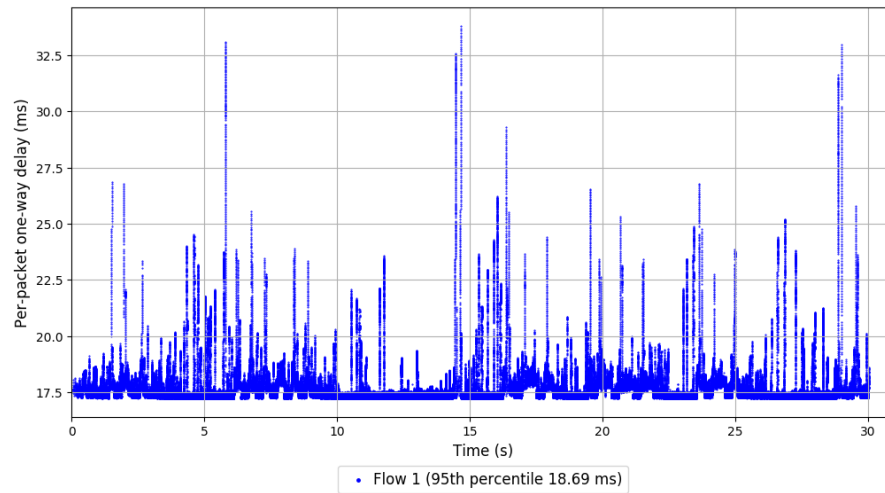
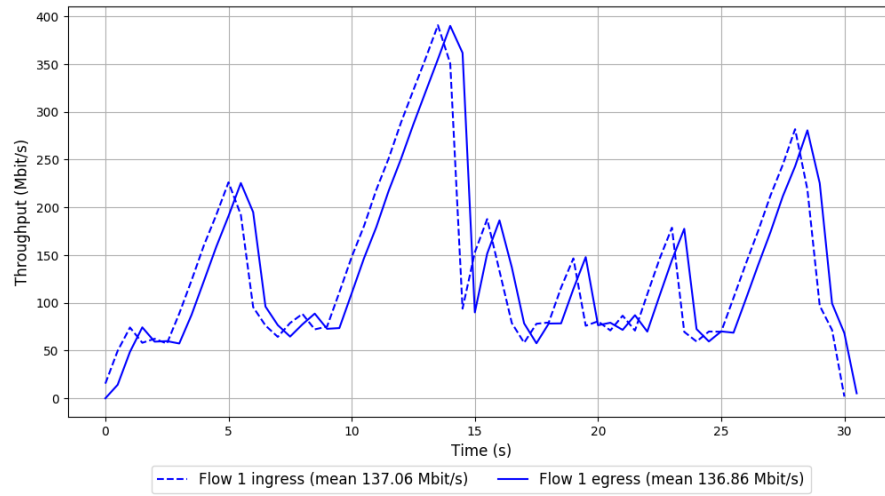


Run 6: Statistics of LEDBAT

Start at: 2018-05-24 05:47:19
End at: 2018-05-24 05:47:49
Local clock offset: -0.008 ms
Remote clock offset: -1.208 ms

Below is generated by plot.py at 2018-05-24 08:25:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 136.86 Mbit/s
95th percentile per-packet one-way delay: 18.693 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 136.86 Mbit/s
95th percentile per-packet one-way delay: 18.693 ms
Loss rate: 0.14%

Run 6: Report of LEDBAT — Data Link

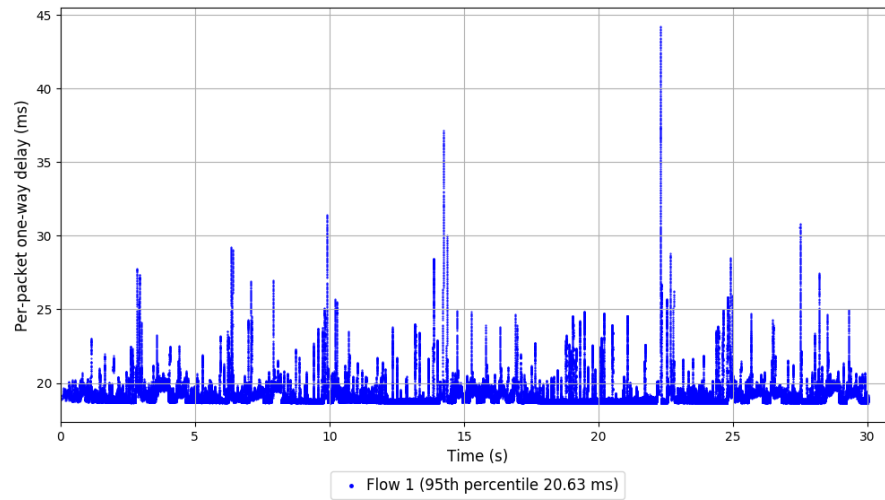
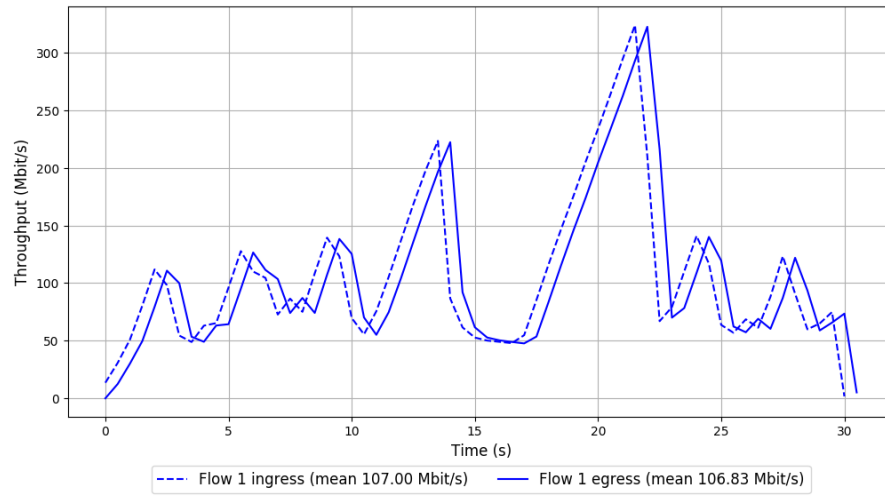


Run 7: Statistics of LEDBAT

Start at: 2018-05-24 06:11:08
End at: 2018-05-24 06:11:38
Local clock offset: 0.051 ms
Remote clock offset: -0.534 ms

Below is generated by plot.py at 2018-05-24 08:25:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 106.83 Mbit/s
95th percentile per-packet one-way delay: 20.629 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 106.83 Mbit/s
95th percentile per-packet one-way delay: 20.629 ms
Loss rate: 0.16%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-05-24 06:35:00

End at: 2018-05-24 06:35:30

Local clock offset: 0.14 ms

Remote clock offset: 0.235 ms

Below is generated by plot.py at 2018-05-24 08:25:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.46 Mbit/s

95th percentile per-packet one-way delay: 18.660 ms

Loss rate: 0.14%

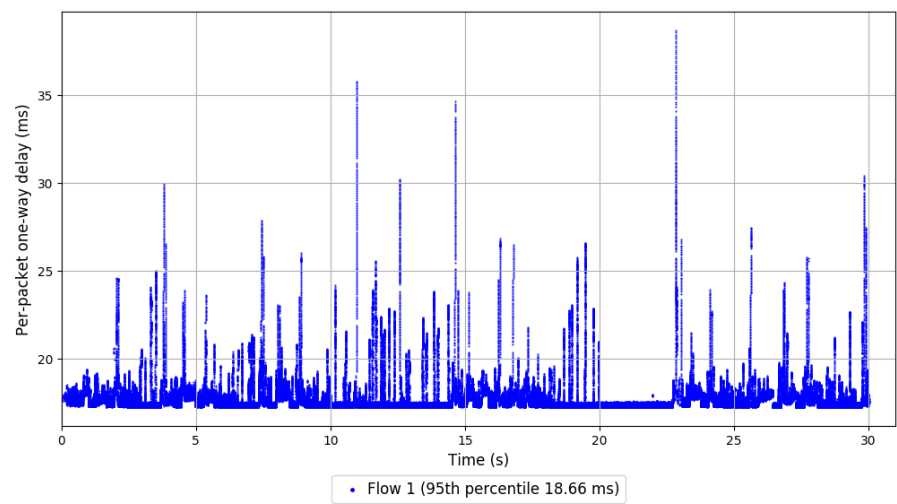
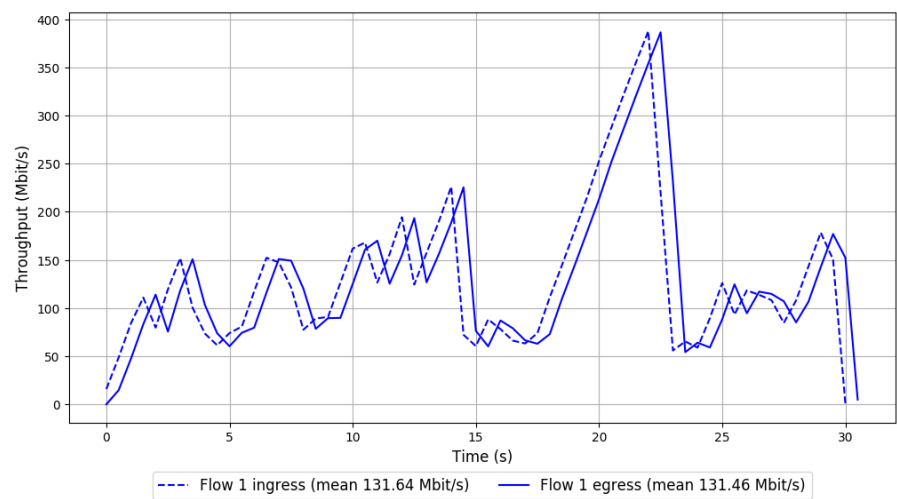
-- Flow 1:

Average throughput: 131.46 Mbit/s

95th percentile per-packet one-way delay: 18.660 ms

Loss rate: 0.14%

Run 8: Report of LEDBAT — Data Link

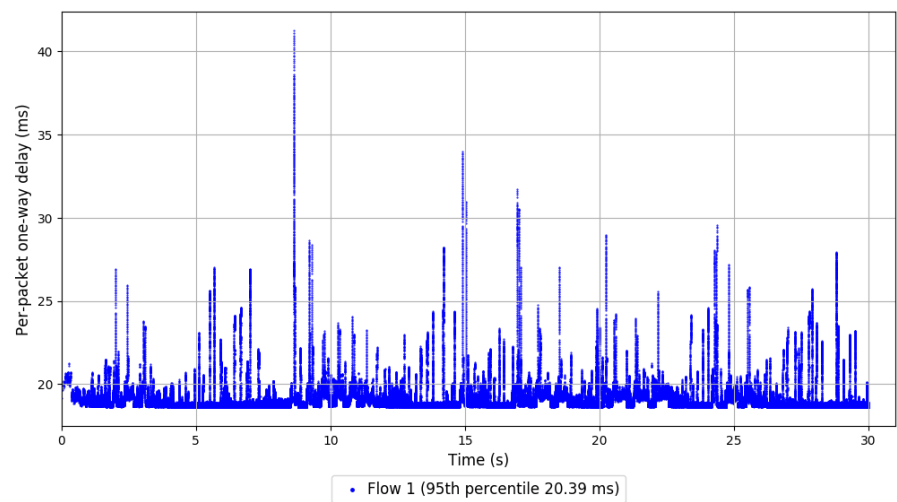
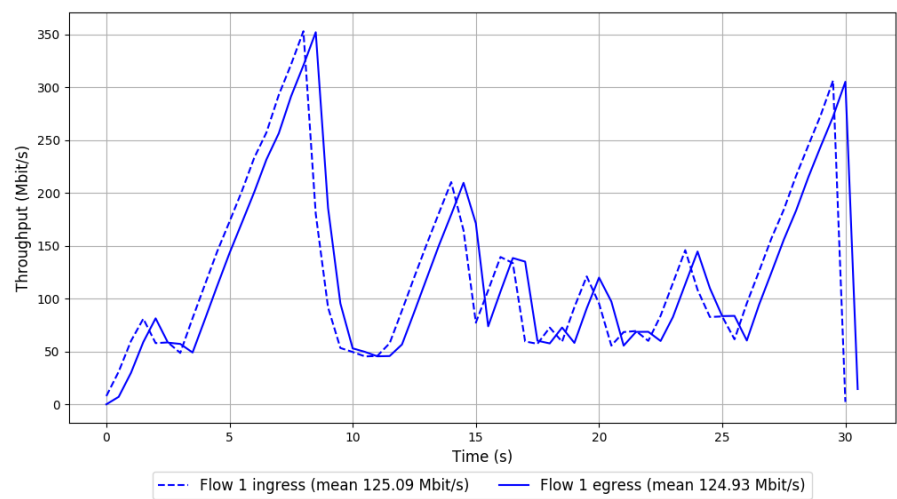


Run 9: Statistics of LEDBAT

Start at: 2018-05-24 06:58:57
End at: 2018-05-24 06:59:27
Local clock offset: 0.275 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2018-05-24 08:25:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 124.93 Mbit/s
95th percentile per-packet one-way delay: 20.393 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 124.93 Mbit/s
95th percentile per-packet one-way delay: 20.393 ms
Loss rate: 0.13%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-05-24 07:22:53

End at: 2018-05-24 07:23:23

Local clock offset: 0.174 ms

Remote clock offset: -0.017 ms

Below is generated by plot.py at 2018-05-24 08:27:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 343.09 Mbit/s

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

Loss rate: 0.01%

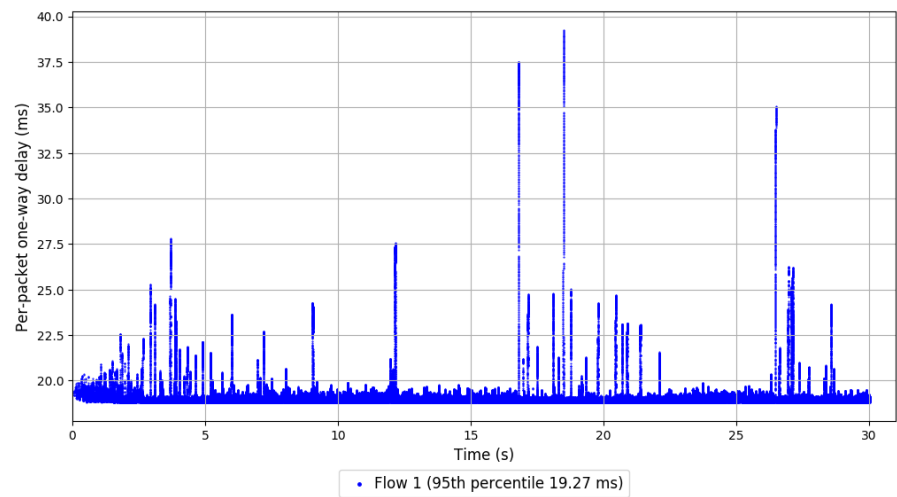
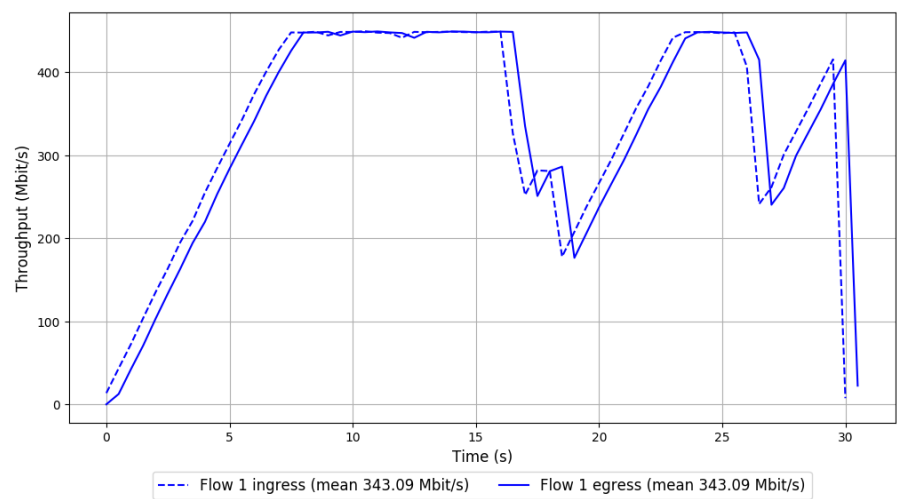
-- Flow 1:

Average throughput: 343.09 Mbit/s

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

Loss rate: 0.01%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-05-24 03:41:30

End at: 2018-05-24 03:42:00

Local clock offset: 0.206 ms

Remote clock offset: 0.515 ms

Below is generated by plot.py at 2018-05-24 08:35:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 908.14 Mbit/s

95th percentile per-packet one-way delay: 31.021 ms

Loss rate: 0.34%

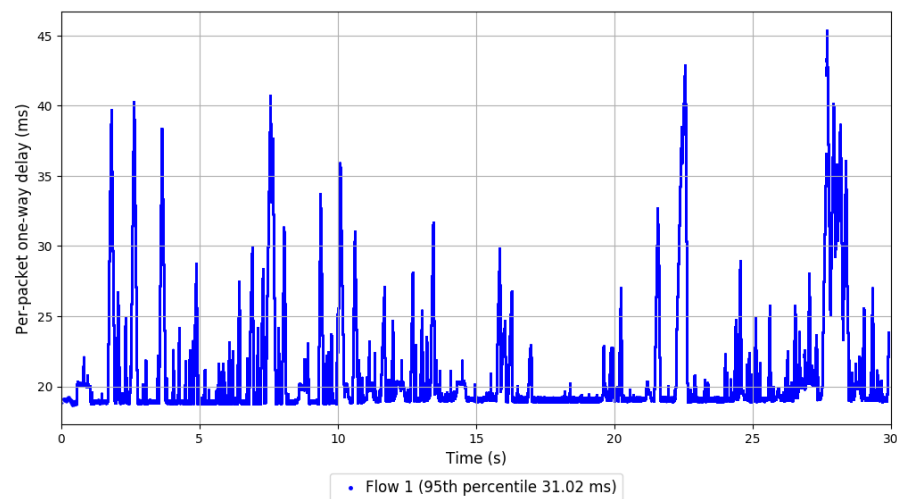
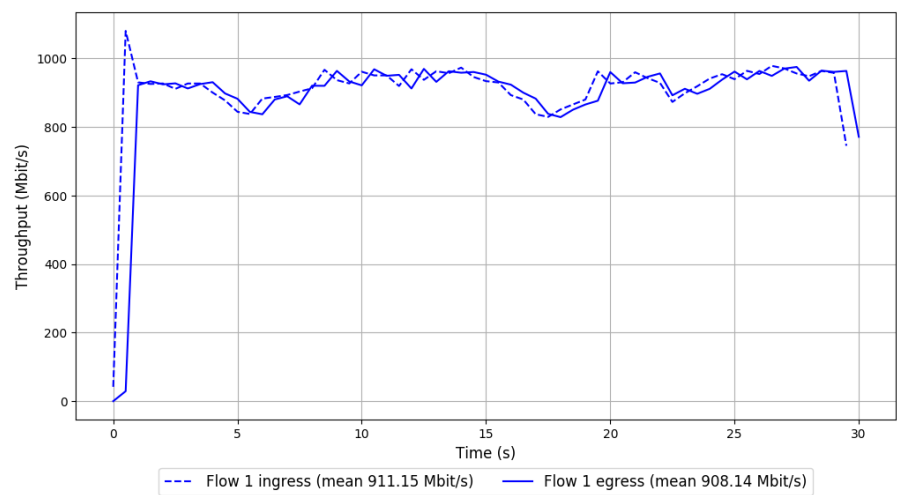
-- Flow 1:

Average throughput: 908.14 Mbit/s

95th percentile per-packet one-way delay: 31.021 ms

Loss rate: 0.34%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-24 04:05:46

End at: 2018-05-24 04:06:16

Local clock offset: 0.67 ms

Remote clock offset: 0.834 ms

Below is generated by plot.py at 2018-05-24 08:35:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 758.11 Mbit/s

95th percentile per-packet one-way delay: 20.769 ms

Loss rate: 0.28%

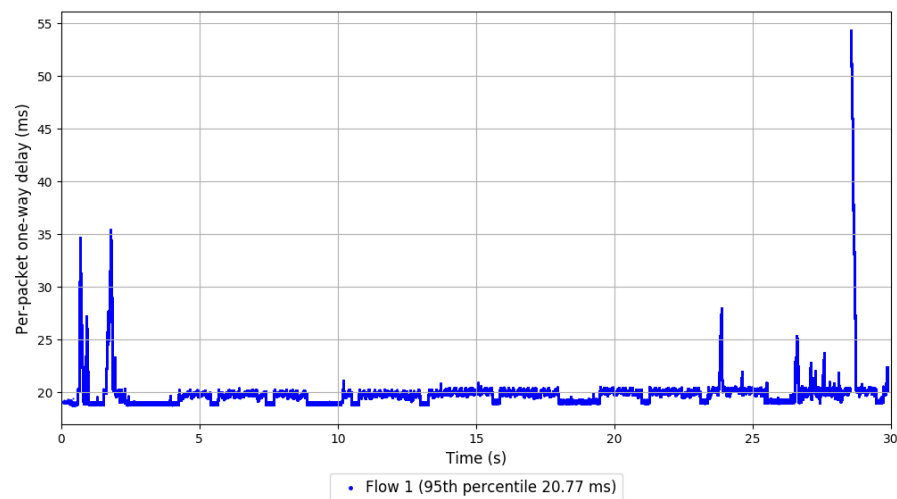
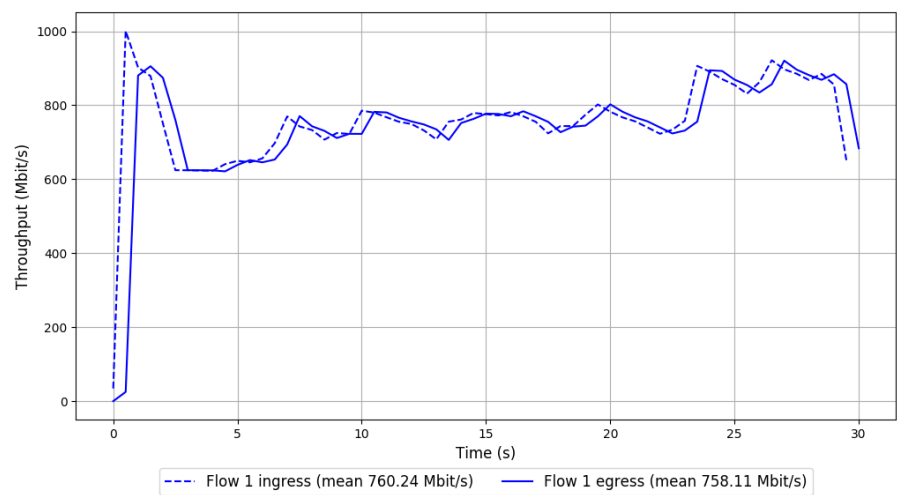
-- Flow 1:

Average throughput: 758.11 Mbit/s

95th percentile per-packet one-way delay: 20.769 ms

Loss rate: 0.28%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-05-24 04:29:35

End at: 2018-05-24 04:30:05

Local clock offset: 1.278 ms

Remote clock offset: 1.271 ms

Below is generated by plot.py at 2018-05-24 08:35:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 791.38 Mbit/s

95th percentile per-packet one-way delay: 23.664 ms

Loss rate: 0.35%

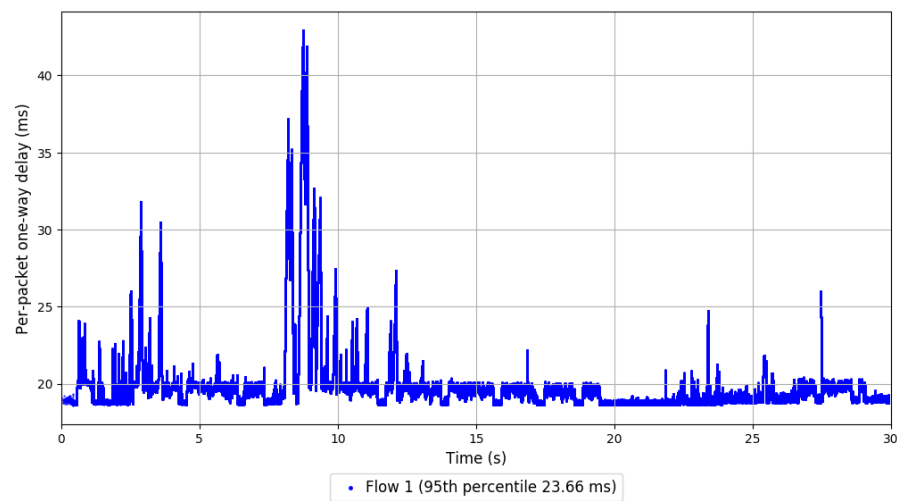
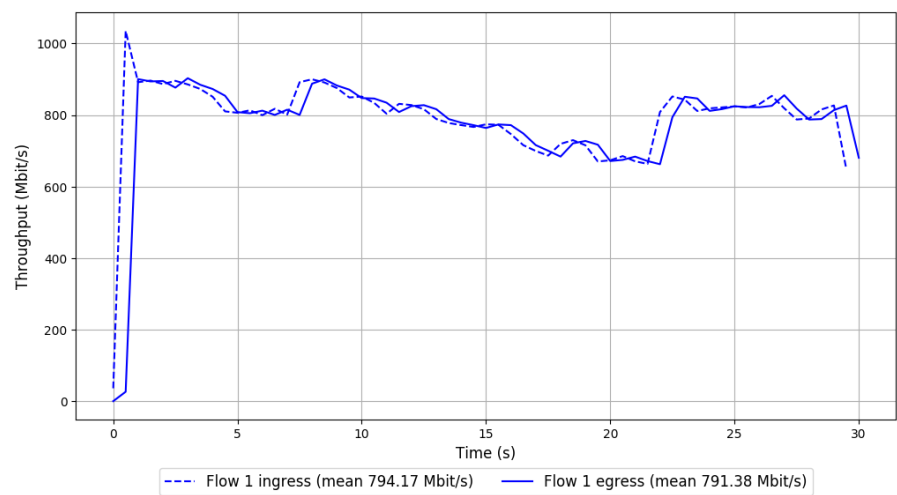
-- Flow 1:

Average throughput: 791.38 Mbit/s

95th percentile per-packet one-way delay: 23.664 ms

Loss rate: 0.35%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-05-24 04:53:24

End at: 2018-05-24 04:53:54

Local clock offset: 0.716 ms

Remote clock offset: 1.64 ms

Below is generated by plot.py at 2018-05-24 08:35:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 865.25 Mbit/s

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

Loss rate: 0.33%

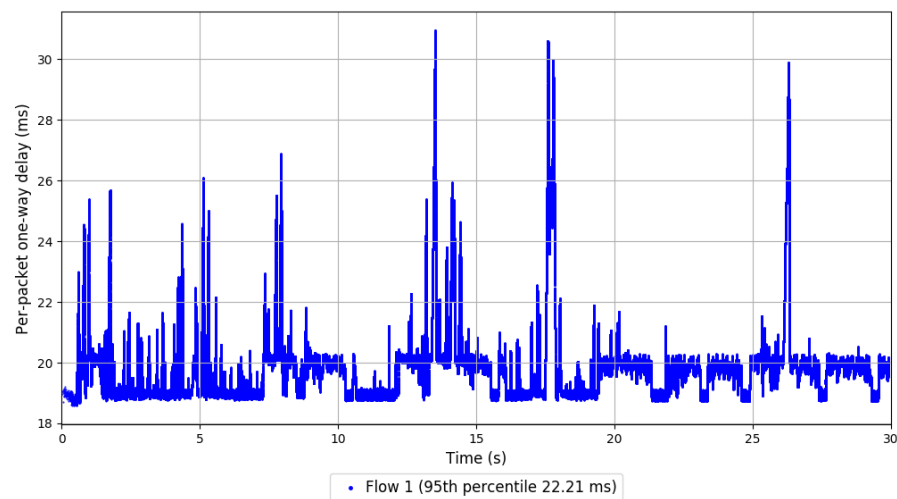
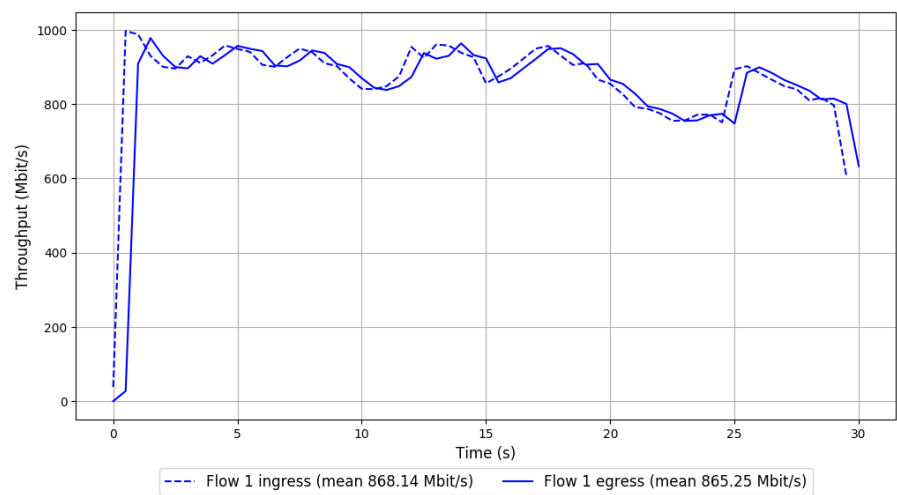
-- Flow 1:

Average throughput: 865.25 Mbit/s

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

Loss rate: 0.33%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-05-24 05:17:02

End at: 2018-05-24 05:17:32

Local clock offset: -0.169 ms

Remote clock offset: -0.586 ms

Below is generated by plot.py at 2018-05-24 08:35:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 879.38 Mbit/s

95th percentile per-packet one-way delay: 30.071 ms

Loss rate: 0.57%

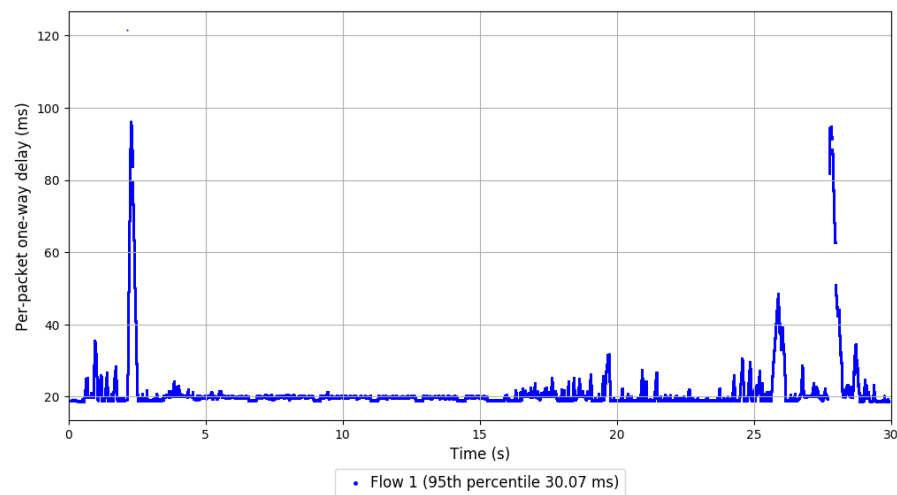
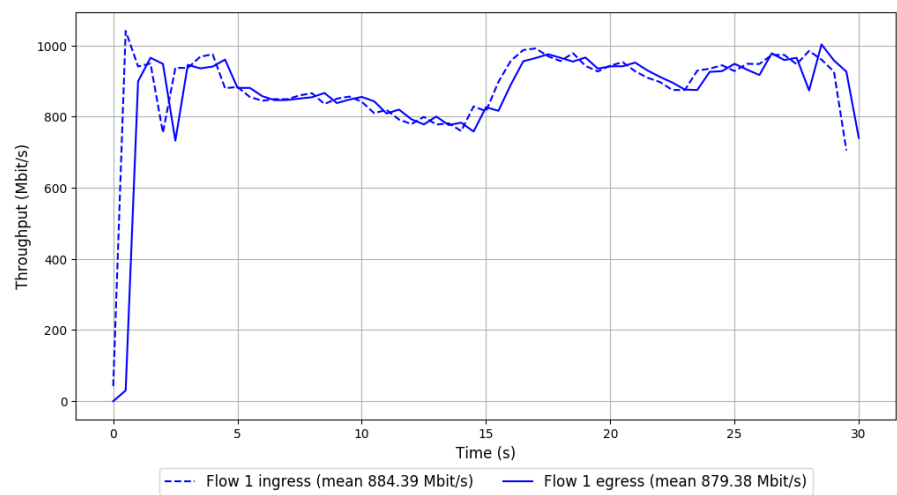
-- Flow 1:

Average throughput: 879.38 Mbit/s

95th percentile per-packet one-way delay: 30.071 ms

Loss rate: 0.57%

Run 5: Report of PCC-Allegro — Data Link

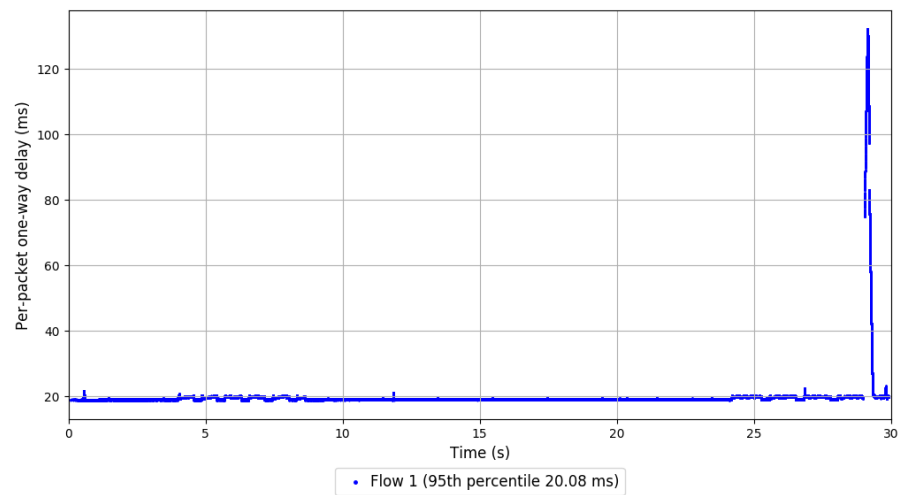
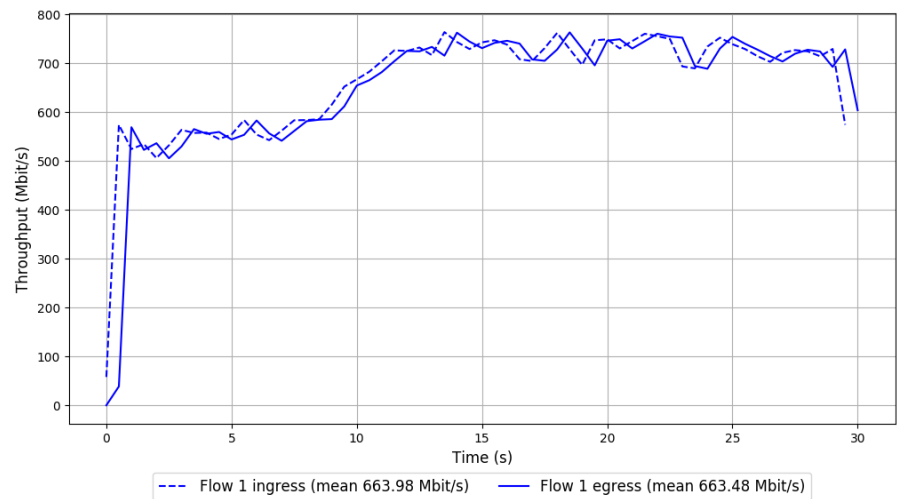


Run 6: Statistics of PCC-Allegro

Start at: 2018-05-24 05:41:01
End at: 2018-05-24 05:41:31
Local clock offset: -0.042 ms
Remote clock offset: -1.121 ms

Below is generated by plot.py at 2018-05-24 08:35:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 663.48 Mbit/s
95th percentile per-packet one-way delay: 20.077 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 663.48 Mbit/s
95th percentile per-packet one-way delay: 20.077 ms
Loss rate: 0.07%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-05-24 06:04:55

End at: 2018-05-24 06:05:25

Local clock offset: 0.009 ms

Remote clock offset: -1.228 ms

Below is generated by plot.py at 2018-05-24 08:35:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 736.72 Mbit/s

95th percentile per-packet one-way delay: 33.831 ms

Loss rate: 0.23%

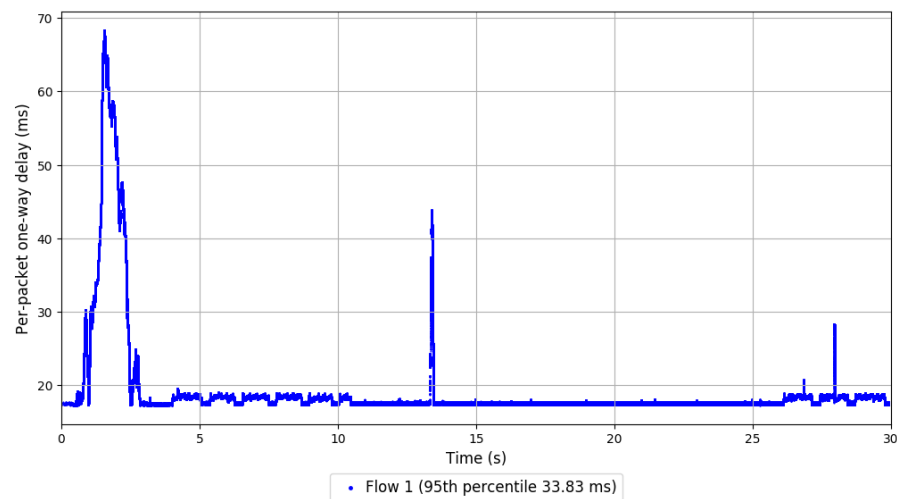
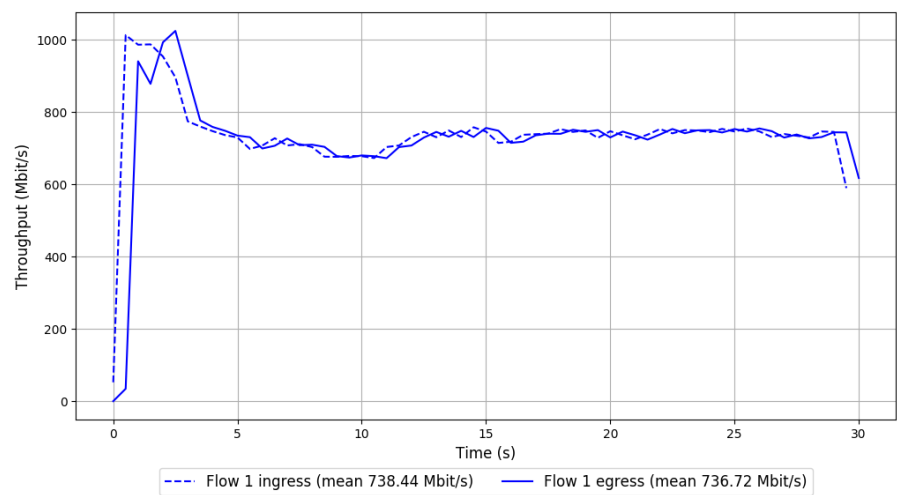
-- Flow 1:

Average throughput: 736.72 Mbit/s

95th percentile per-packet one-way delay: 33.831 ms

Loss rate: 0.23%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-05-24 06:28:27

End at: 2018-05-24 06:28:57

Local clock offset: 0.005 ms

Remote clock offset: 0.048 ms

Below is generated by plot.py at 2018-05-24 08:39:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 899.34 Mbit/s

95th percentile per-packet one-way delay: 20.503 ms

Loss rate: 0.36%

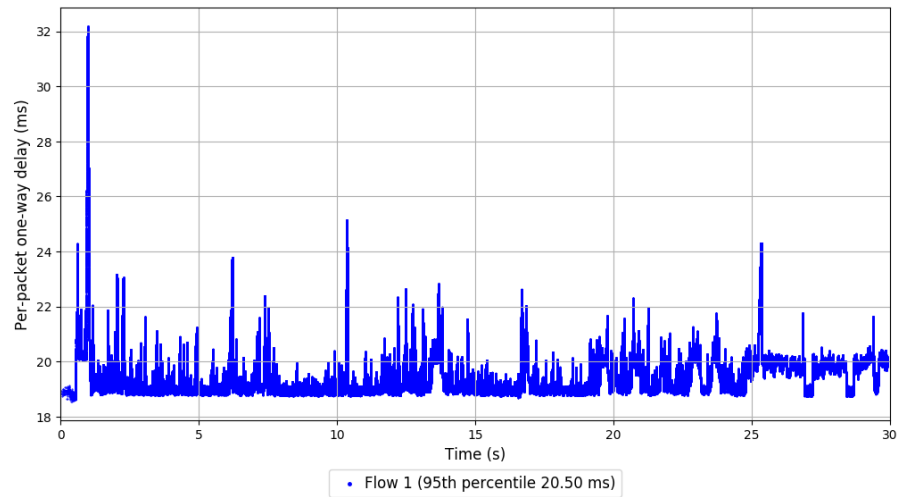
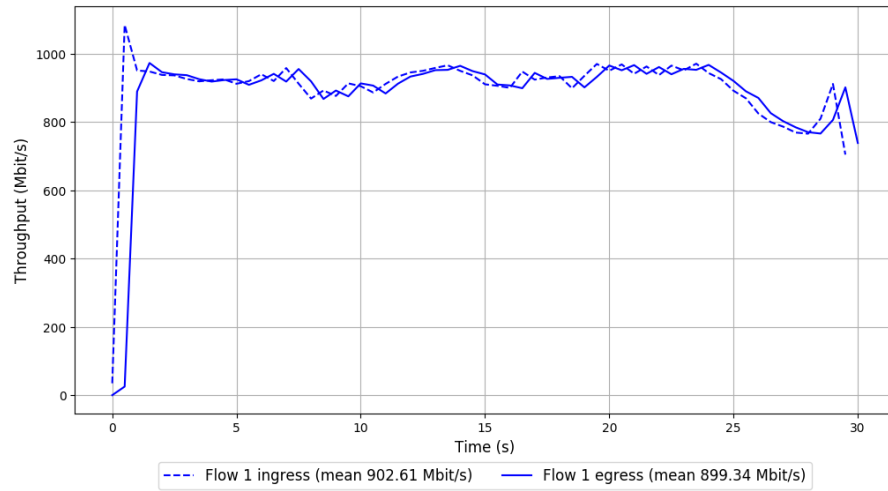
-- Flow 1:

Average throughput: 899.34 Mbit/s

95th percentile per-packet one-way delay: 20.503 ms

Loss rate: 0.36%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-05-24 06:52:23

End at: 2018-05-24 06:52:53

Local clock offset: 0.251 ms

Remote clock offset: 0.0 ms

Below is generated by plot.py at 2018-05-24 08:45:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 838.87 Mbit/s

95th percentile per-packet one-way delay: 32.908 ms

Loss rate: 0.20%

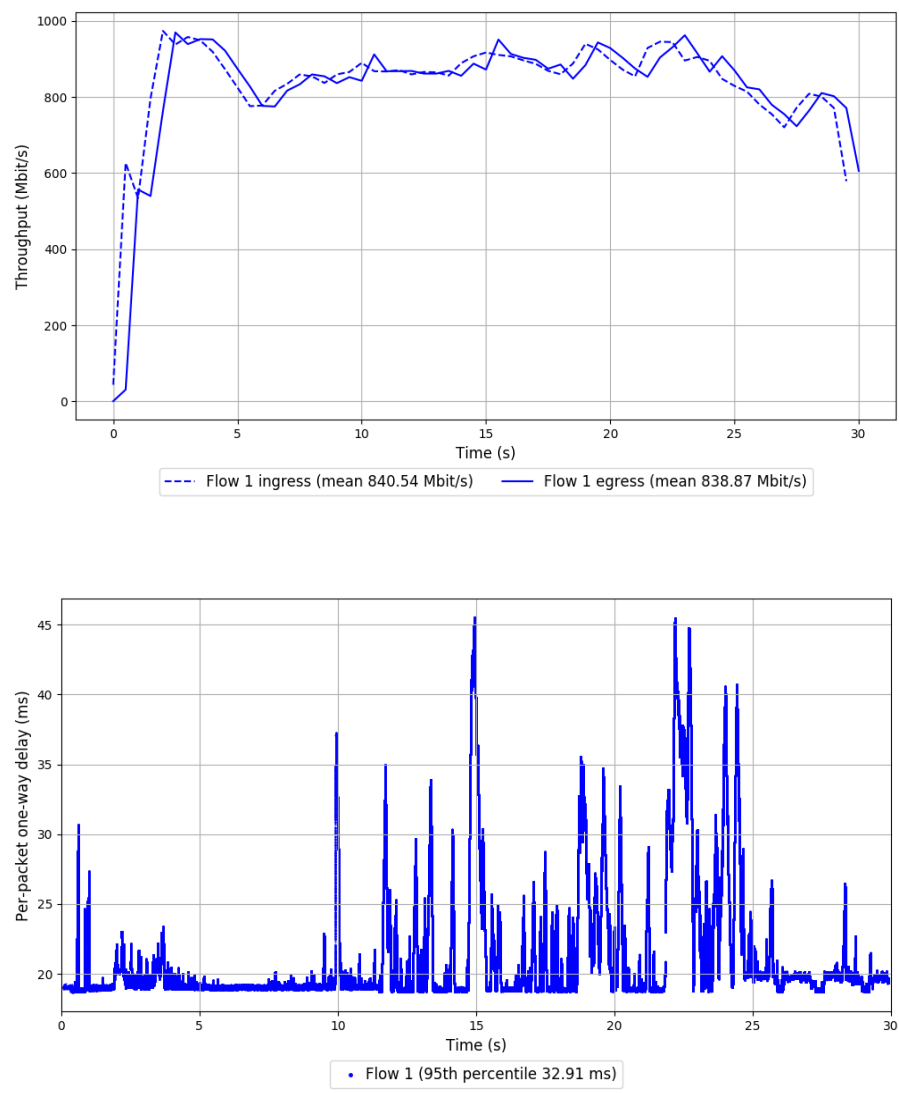
-- Flow 1:

Average throughput: 838.87 Mbit/s

95th percentile per-packet one-way delay: 32.908 ms

Loss rate: 0.20%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-05-24 07:16:18

End at: 2018-05-24 07:16:48

Local clock offset: 0.254 ms

Remote clock offset: -0.108 ms

Below is generated by plot.py at 2018-05-24 08:46:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 890.85 Mbit/s

95th percentile per-packet one-way delay: 30.807 ms

Loss rate: 0.43%

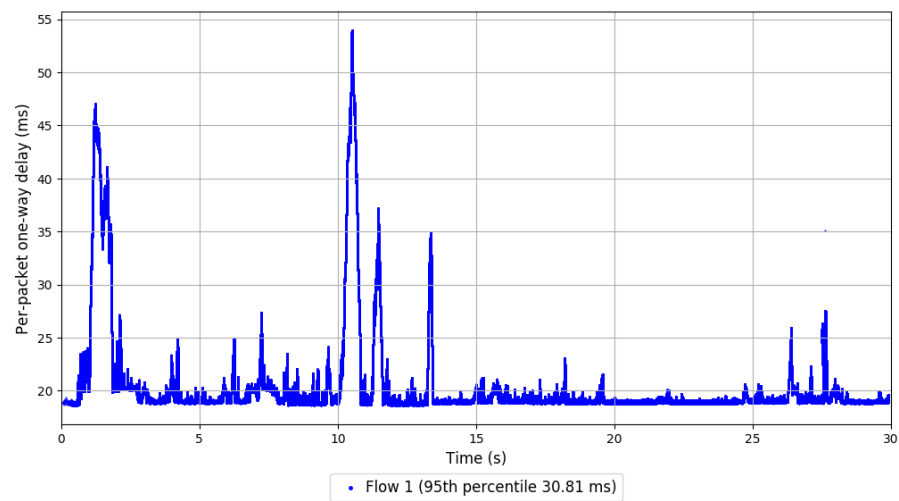
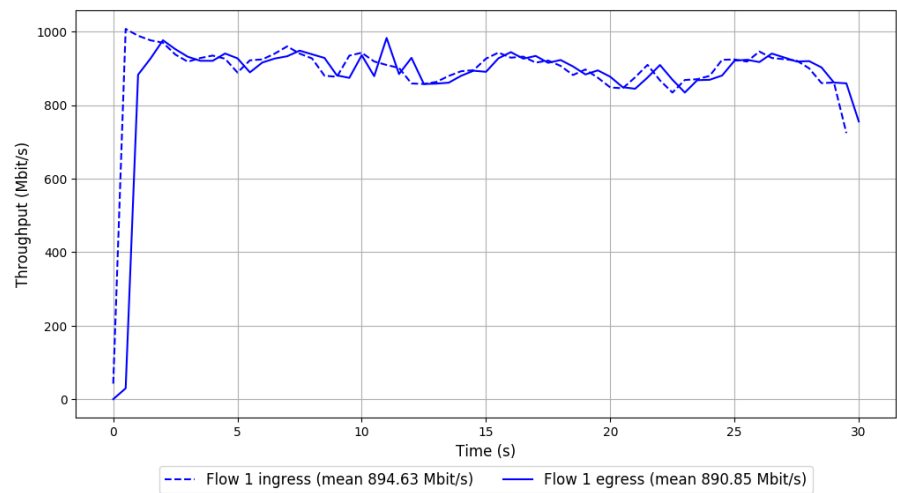
-- Flow 1:

Average throughput: 890.85 Mbit/s

95th percentile per-packet one-way delay: 30.807 ms

Loss rate: 0.43%

Run 10: Report of PCC-Allegro — Data Link

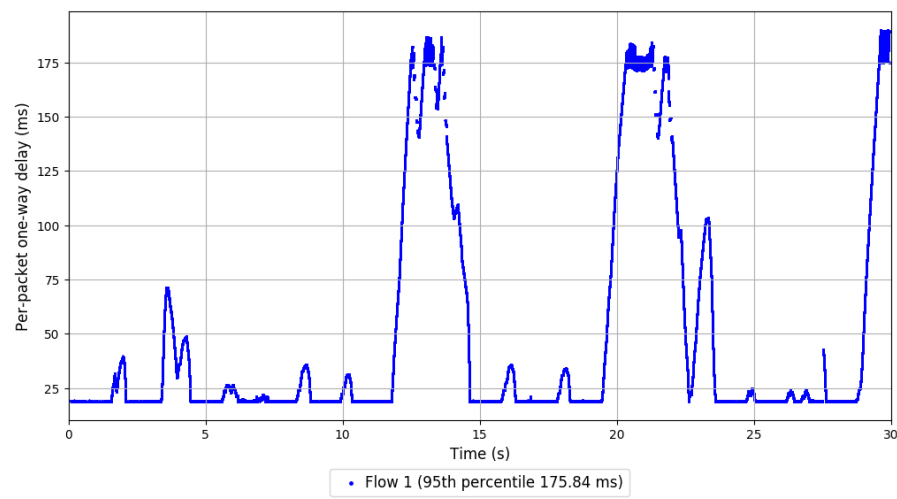
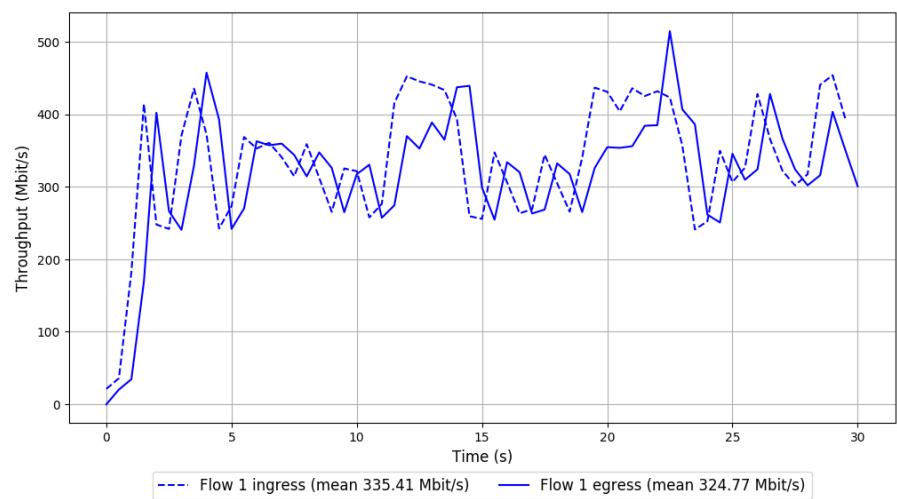


```
Run 1: Statistics of PCC-Expr

Start at: 2018-05-24 03:34:03
End at: 2018-05-24 03:34:33
Local clock offset: -0.014 ms
Remote clock offset: 0.384 ms

# Below is generated by plot.py at 2018-05-24 08:46:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 324.77 Mbit/s
95th percentile per-packet one-way delay: 175.839 ms
Loss rate: 3.17%
-- Flow 1:
Average throughput: 324.77 Mbit/s
95th percentile per-packet one-way delay: 175.839 ms
Loss rate: 3.17%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-05-24 03:58:03

End at: 2018-05-24 03:58:33

Local clock offset: 0.046 ms

Remote clock offset: 0.738 ms

Below is generated by plot.py at 2018-05-24 08:46:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 368.78 Mbit/s

95th percentile per-packet one-way delay: 167.770 ms

Loss rate: 1.30%

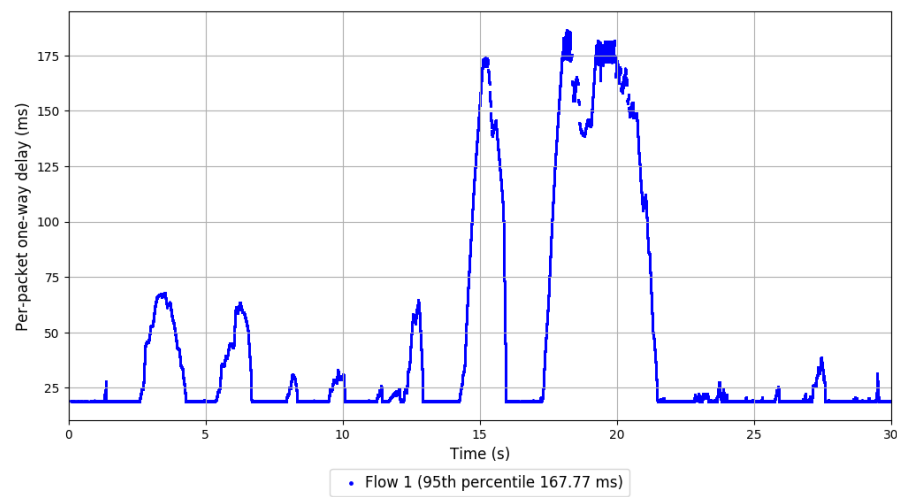
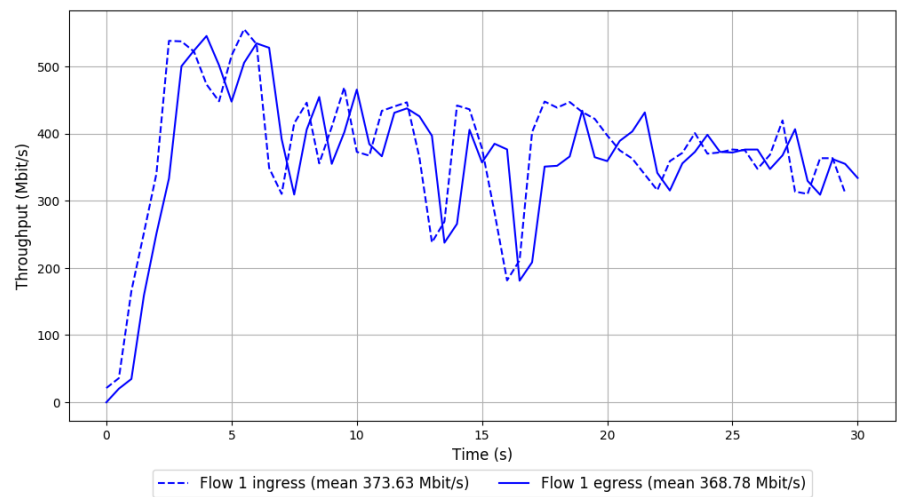
-- Flow 1:

Average throughput: 368.78 Mbit/s

95th percentile per-packet one-way delay: 167.770 ms

Loss rate: 1.30%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

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

End at: 2018-05-24 04:22:35

Local clock offset: 1.166 ms

Remote clock offset: 1.083 ms

Below is generated by plot.py at 2018-05-24 08:46:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 326.28 Mbit/s

95th percentile per-packet one-way delay: 75.223 ms

Loss rate: 0.01%

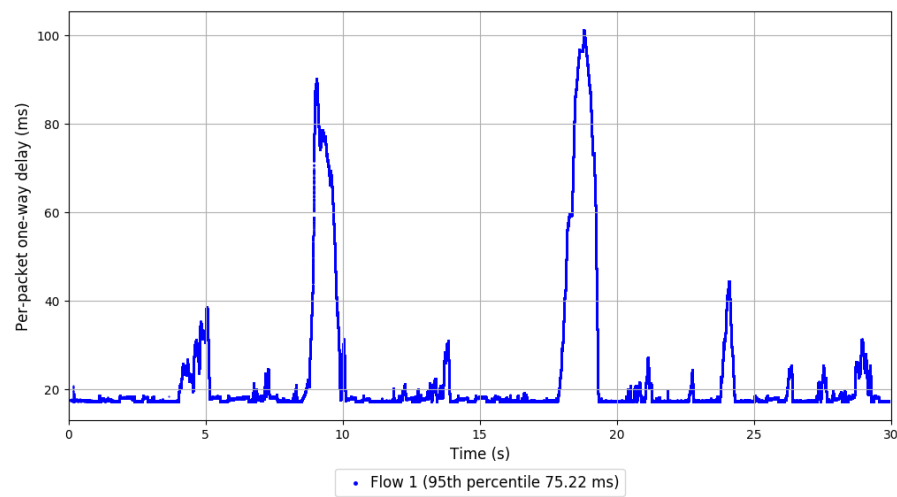
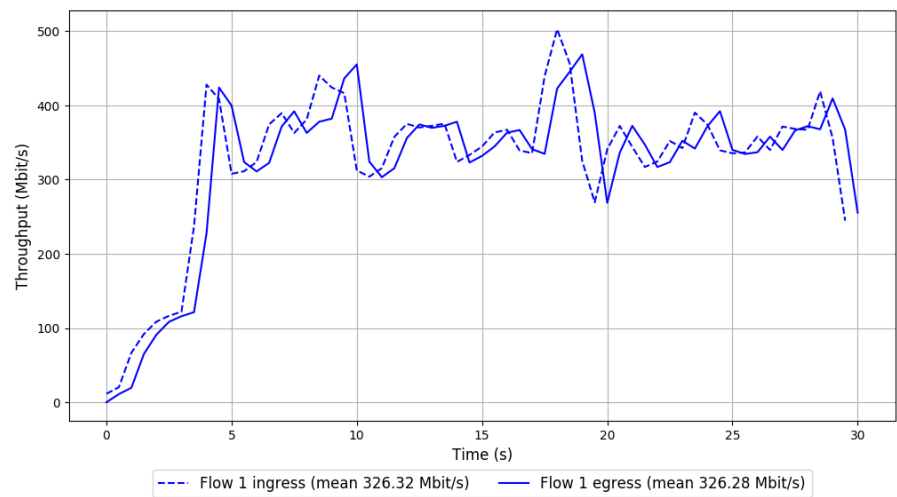
-- Flow 1:

Average throughput: 326.28 Mbit/s

95th percentile per-packet one-way delay: 75.223 ms

Loss rate: 0.01%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-05-24 04:45:52

End at: 2018-05-24 04:46:22

Local clock offset: 0.721 ms

Remote clock offset: 1.496 ms

Below is generated by plot.py at 2018-05-24 08:46:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 338.00 Mbit/s

95th percentile per-packet one-way delay: 147.500 ms

Loss rate: 0.25%

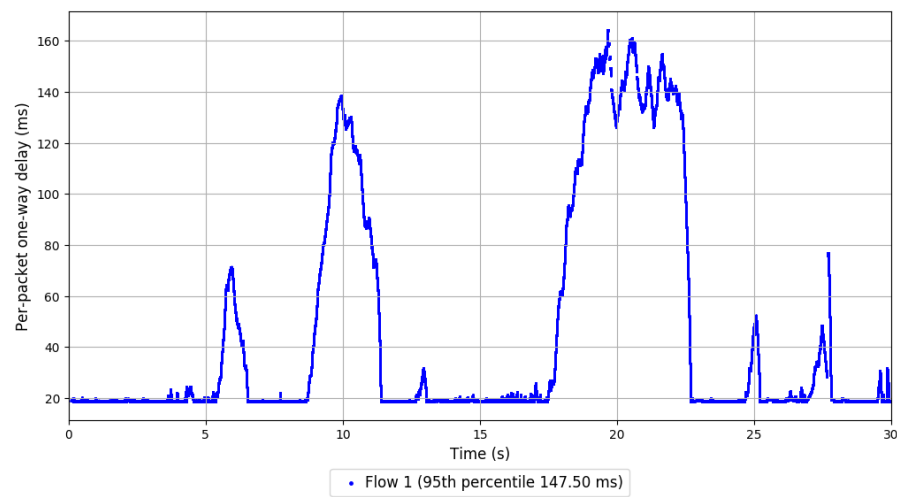
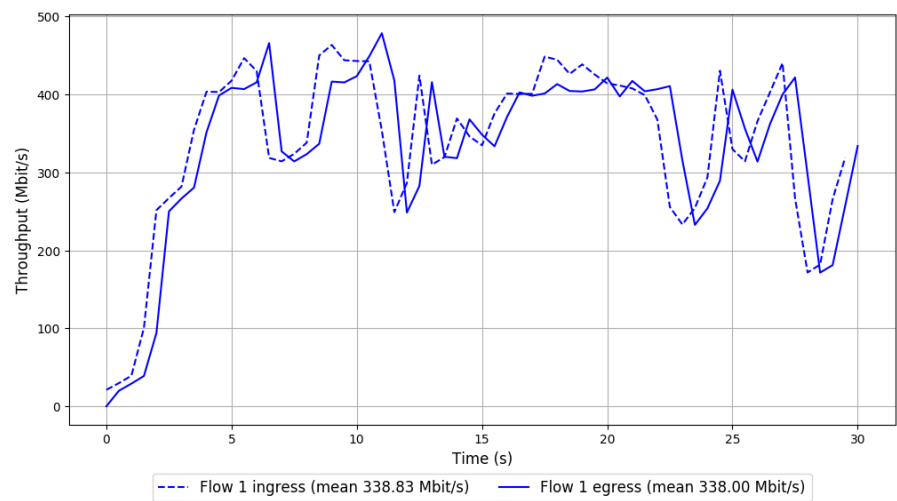
-- Flow 1:

Average throughput: 338.00 Mbit/s

95th percentile per-packet one-way delay: 147.500 ms

Loss rate: 0.25%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-05-24 05:09:28

End at: 2018-05-24 05:09:58

Local clock offset: 0.068 ms

Remote clock offset: -0.2 ms

Below is generated by plot.py at 2018-05-24 08:46:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 347.81 Mbit/s

95th percentile per-packet one-way delay: 153.135 ms

Loss rate: 1.03%

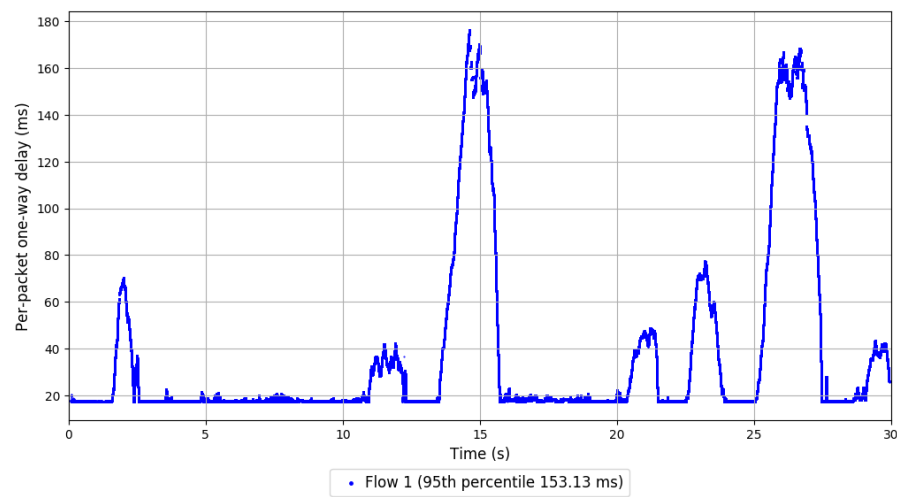
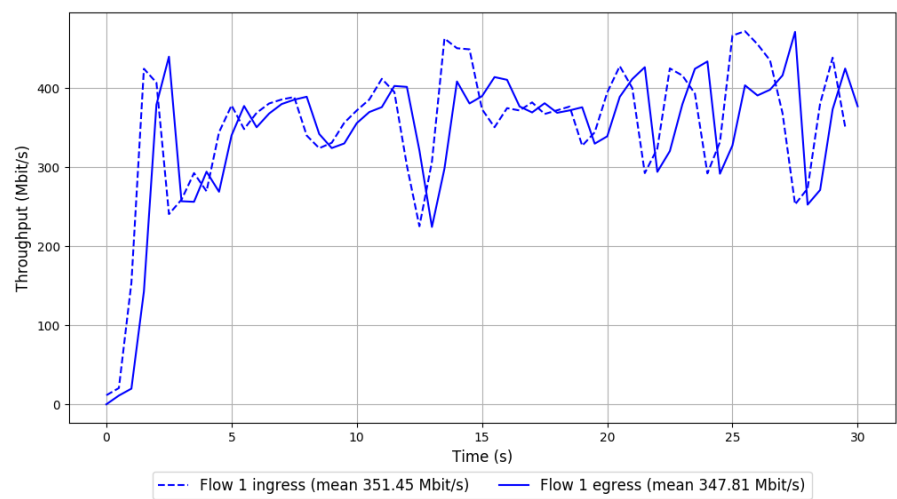
-- Flow 1:

Average throughput: 347.81 Mbit/s

95th percentile per-packet one-way delay: 153.135 ms

Loss rate: 1.03%

Run 5: Report of PCC-Expr — Data Link

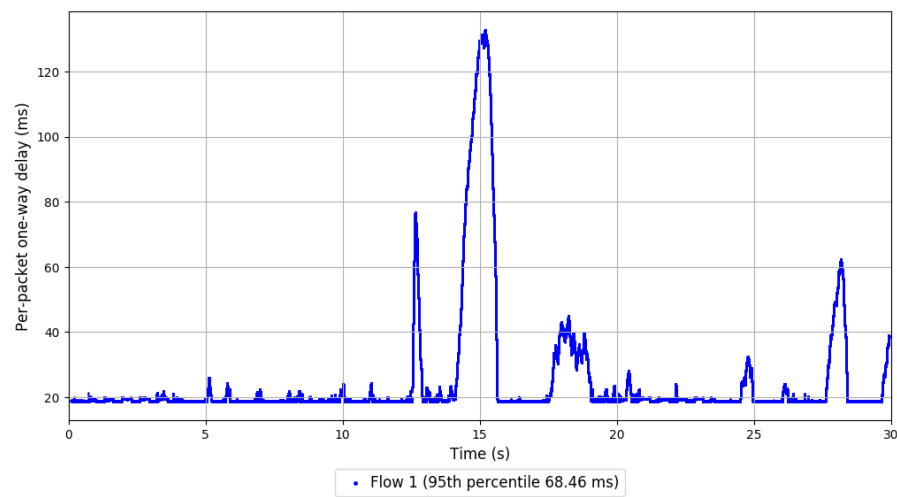
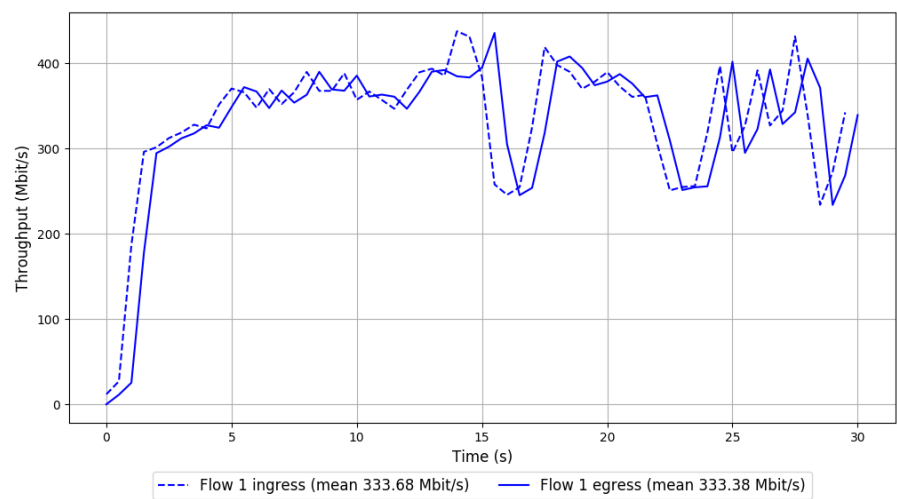


Run 6: Statistics of PCC-Expr

Start at: 2018-05-24 05:33:26
End at: 2018-05-24 05:33:56
Local clock offset: -0.216 ms
Remote clock offset: -1.043 ms

Below is generated by plot.py at 2018-05-24 08:48:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 333.38 Mbit/s
95th percentile per-packet one-way delay: 68.461 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 333.38 Mbit/s
95th percentile per-packet one-way delay: 68.461 ms
Loss rate: 0.09%

Run 6: Report of PCC-Expr — Data Link

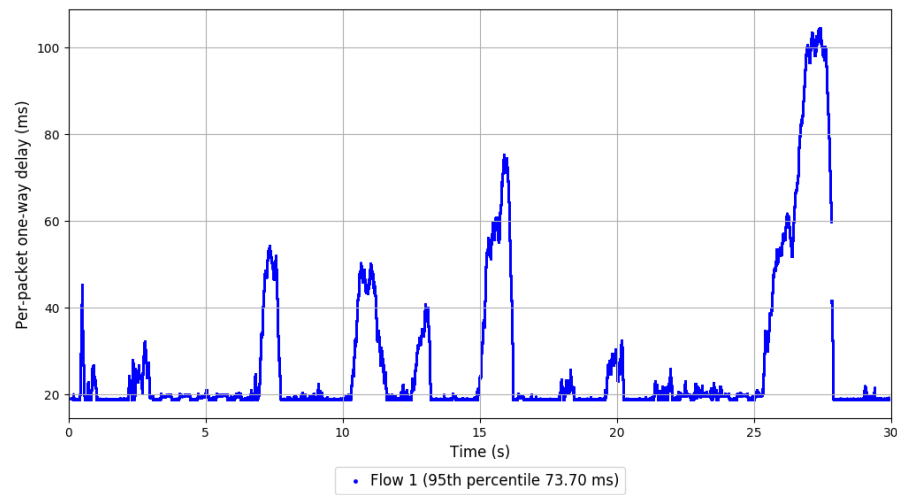
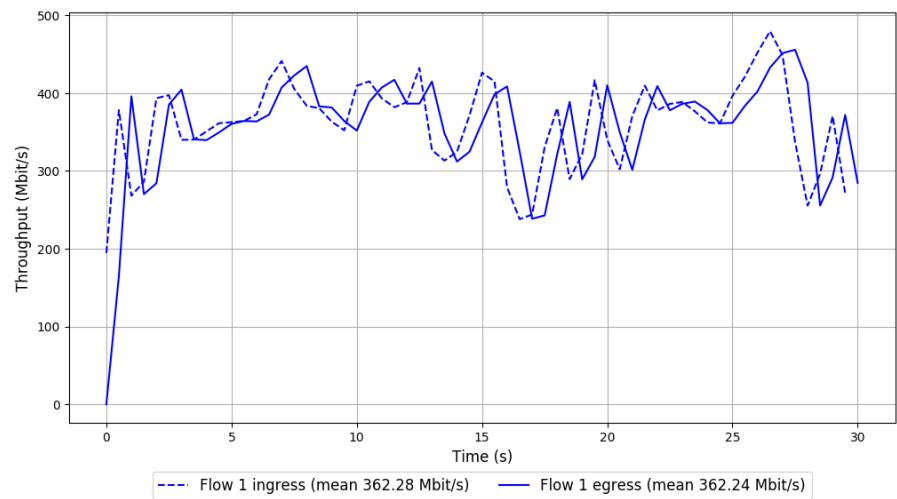


Run 7: Statistics of PCC-Expr

Start at: 2018-05-24 05:57:13
End at: 2018-05-24 05:57:43
Local clock offset: -0.098 ms
Remote clock offset: -1.425 ms

Below is generated by plot.py at 2018-05-24 08:52:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 362.24 Mbit/s
95th percentile per-packet one-way delay: 73.704 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 362.24 Mbit/s
95th percentile per-packet one-way delay: 73.704 ms
Loss rate: 0.01%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-05-24 06:20:56

End at: 2018-05-24 06:21:26

Local clock offset: 0.028 ms

Remote clock offset: -0.08 ms

Below is generated by plot.py at 2018-05-24 08:52:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 307.81 Mbit/s

95th percentile per-packet one-way delay: 20.208 ms

Loss rate: 0.01%

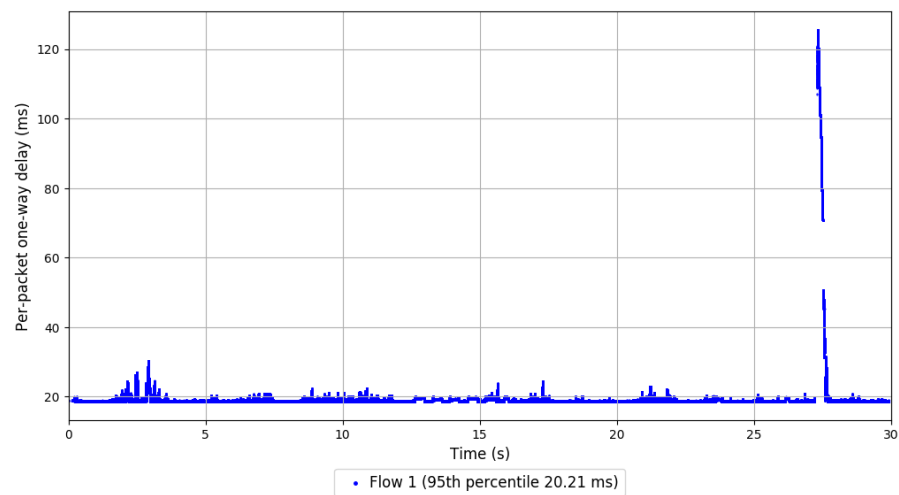
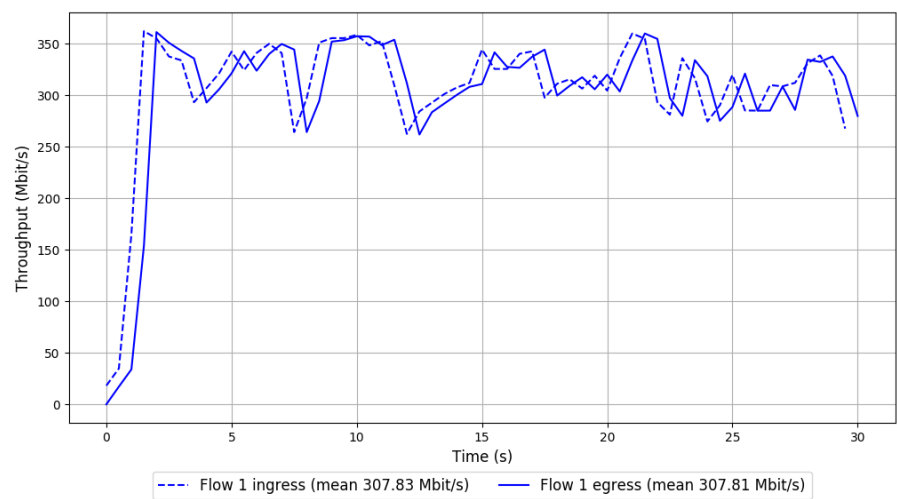
-- Flow 1:

Average throughput: 307.81 Mbit/s

95th percentile per-packet one-way delay: 20.208 ms

Loss rate: 0.01%

Run 8: Report of PCC-Expr — Data Link

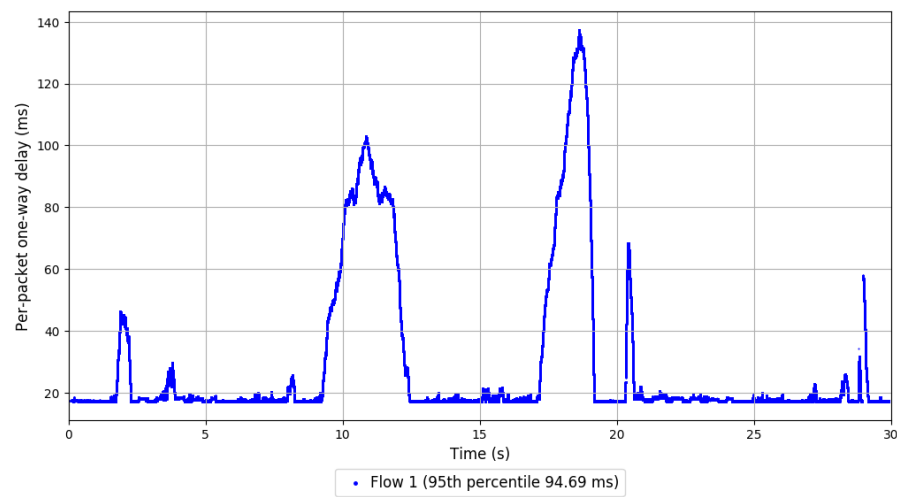
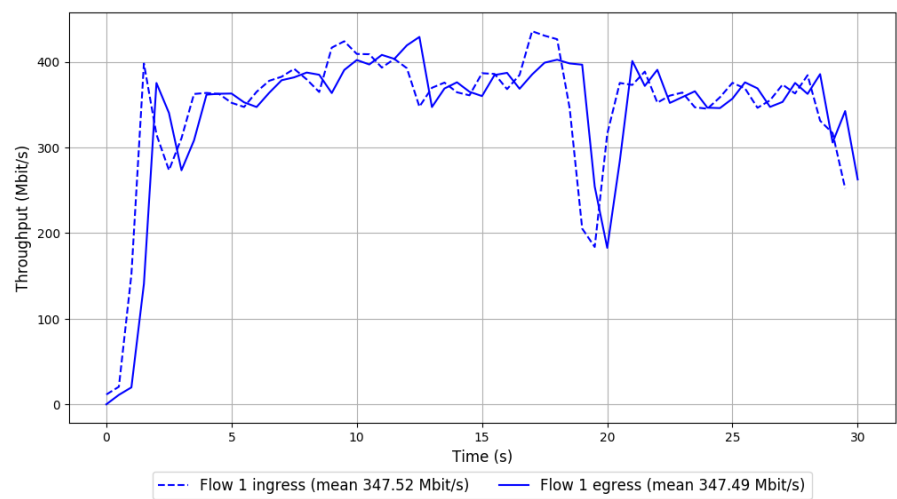


Run 9: Statistics of PCC-Expr

Start at: 2018-05-24 06:44:41
End at: 2018-05-24 06:45:11
Local clock offset: 0.241 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2018-05-24 08:52:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 347.49 Mbit/s
95th percentile per-packet one-way delay: 94.686 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 347.49 Mbit/s
95th percentile per-packet one-way delay: 94.686 ms
Loss rate: 0.01%

Run 9: Report of PCC-Expr — Data Link

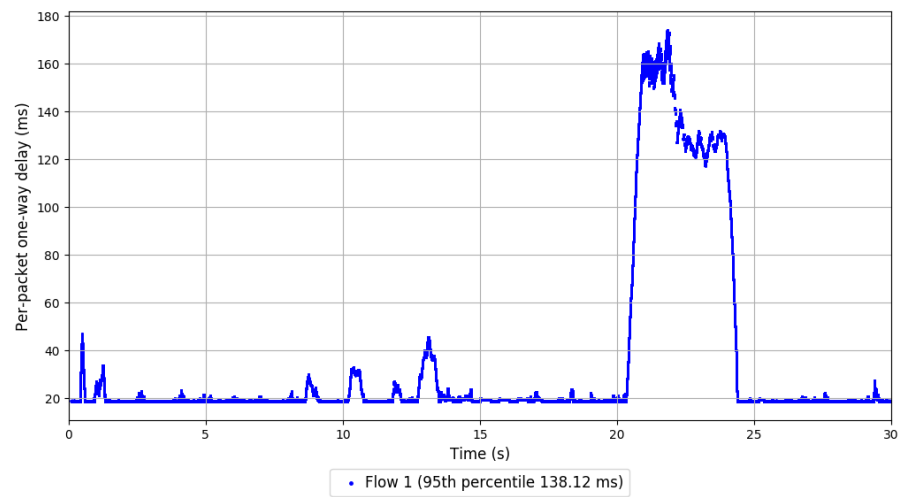
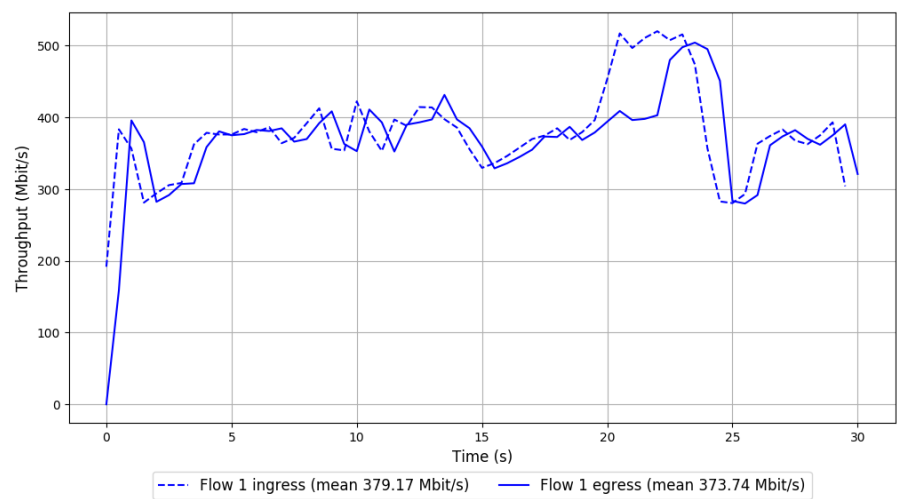


Run 10: Statistics of PCC-Expr

Start at: 2018-05-24 07:08:40
End at: 2018-05-24 07:09:10
Local clock offset: 0.264 ms
Remote clock offset: -0.068 ms

Below is generated by plot.py at 2018-05-24 08:53:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 373.74 Mbit/s
95th percentile per-packet one-way delay: 138.117 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 373.74 Mbit/s
95th percentile per-packet one-way delay: 138.117 ms
Loss rate: 1.43%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-05-24 03:38:34

End at: 2018-05-24 03:39:04

Local clock offset: 0.164 ms

Remote clock offset: 0.418 ms

Below is generated by plot.py at 2018-05-24 08:53:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.45 Mbit/s

95th percentile per-packet one-way delay: 17.407 ms

Loss rate: 0.00%

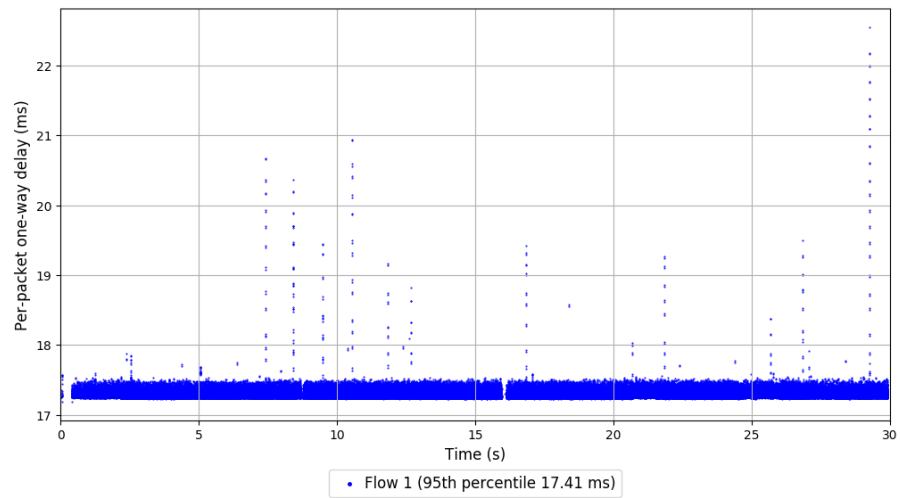
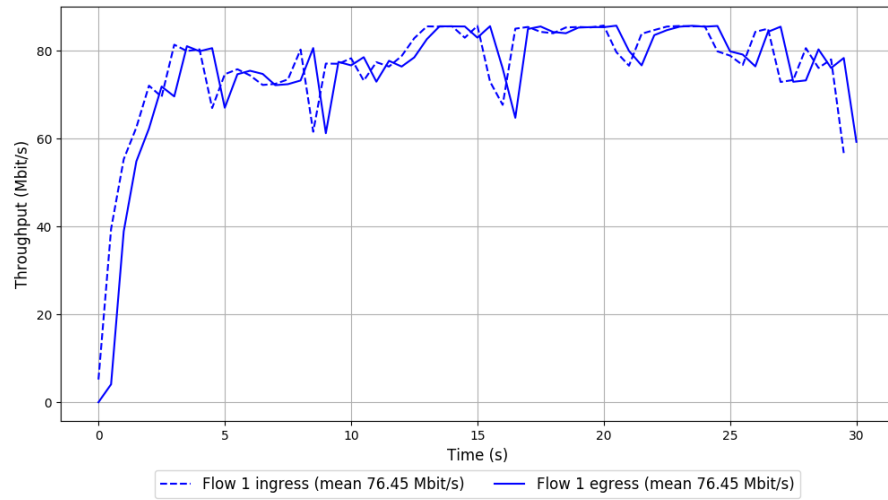
-- Flow 1:

Average throughput: 76.45 Mbit/s

95th percentile per-packet one-way delay: 17.407 ms

Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-05-24 04:02:42

End at: 2018-05-24 04:03:12

Local clock offset: 0.522 ms

Remote clock offset: 0.762 ms

Below is generated by plot.py at 2018-05-24 08:53:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.28 Mbit/s

95th percentile per-packet one-way delay: 19.561 ms

Loss rate: 0.05%

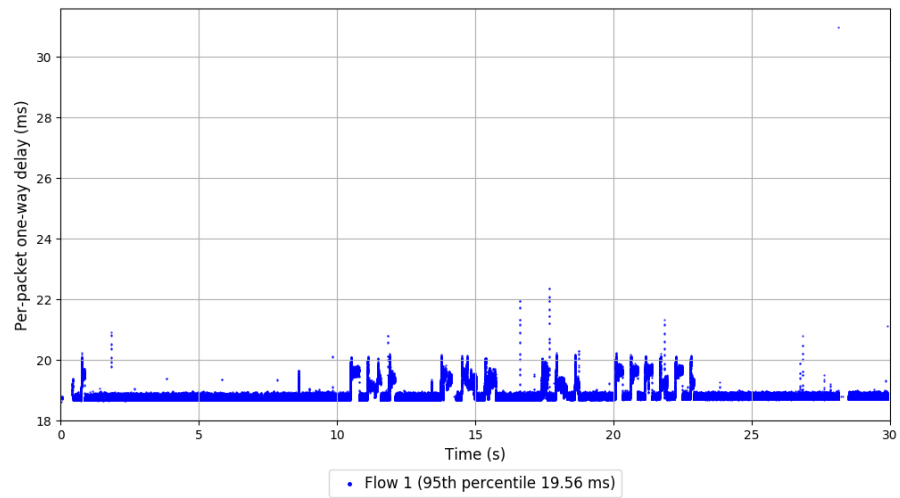
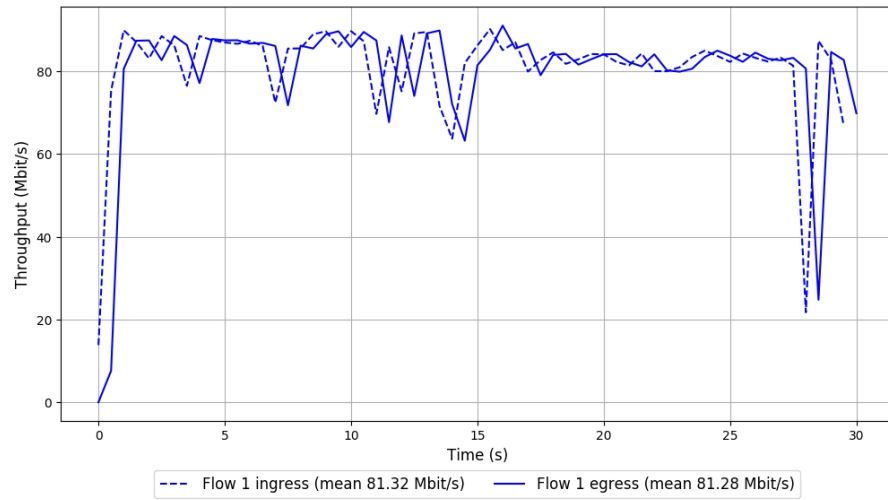
-- Flow 1:

Average throughput: 81.28 Mbit/s

95th percentile per-packet one-way delay: 19.561 ms

Loss rate: 0.05%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-05-24 04:26:33

End at: 2018-05-24 04:27:03

Local clock offset: 1.196 ms

Remote clock offset: 1.178 ms

Below is generated by plot.py at 2018-05-24 08:53:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.36 Mbit/s

95th percentile per-packet one-way delay: 19.343 ms

Loss rate: 0.04%

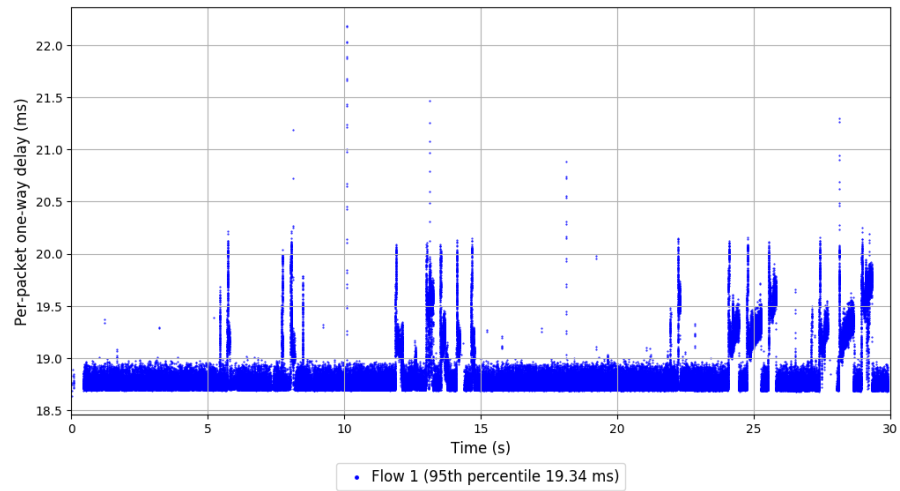
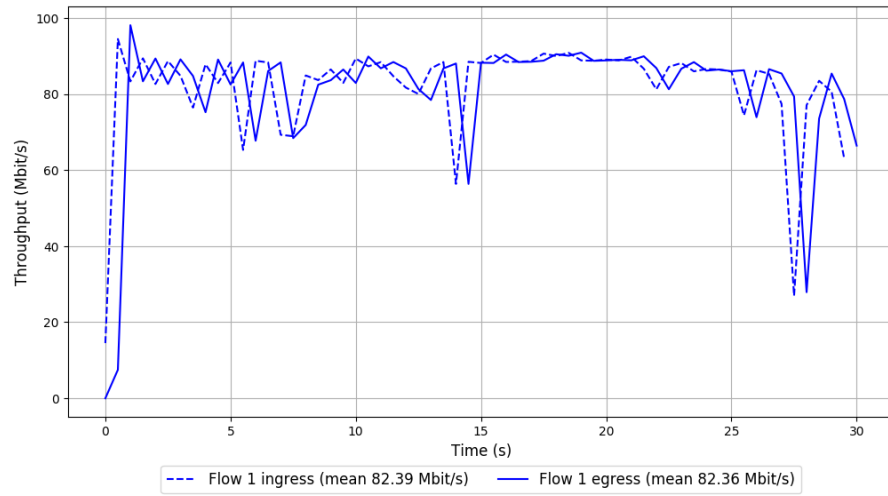
-- Flow 1:

Average throughput: 82.36 Mbit/s

95th percentile per-packet one-way delay: 19.343 ms

Loss rate: 0.04%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-05-24 04:50:24

End at: 2018-05-24 04:50:54

Local clock offset: 0.759 ms

Remote clock offset: 1.639 ms

Below is generated by plot.py at 2018-05-24 08:53:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.51 Mbit/s

95th percentile per-packet one-way delay: 18.917 ms

Loss rate: 0.02%

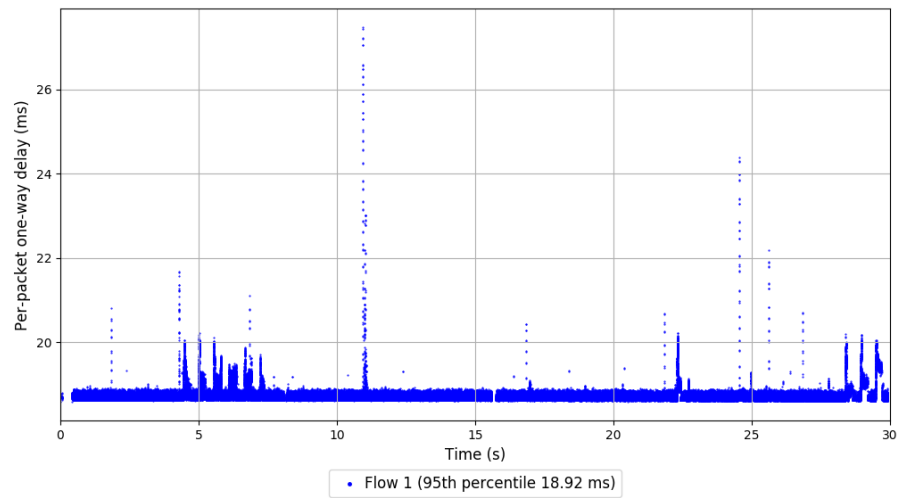
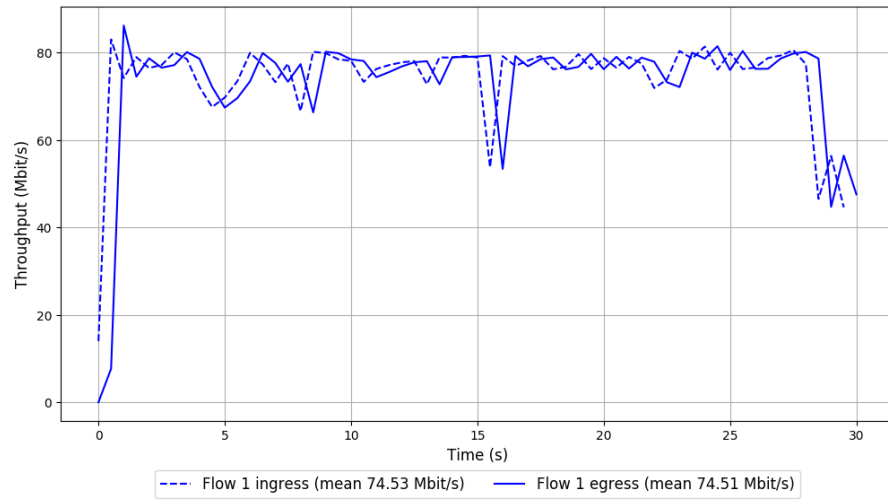
-- Flow 1:

Average throughput: 74.51 Mbit/s

95th percentile per-packet one-way delay: 18.917 ms

Loss rate: 0.02%

Run 4: Report of QUIC Cubic — Data Link

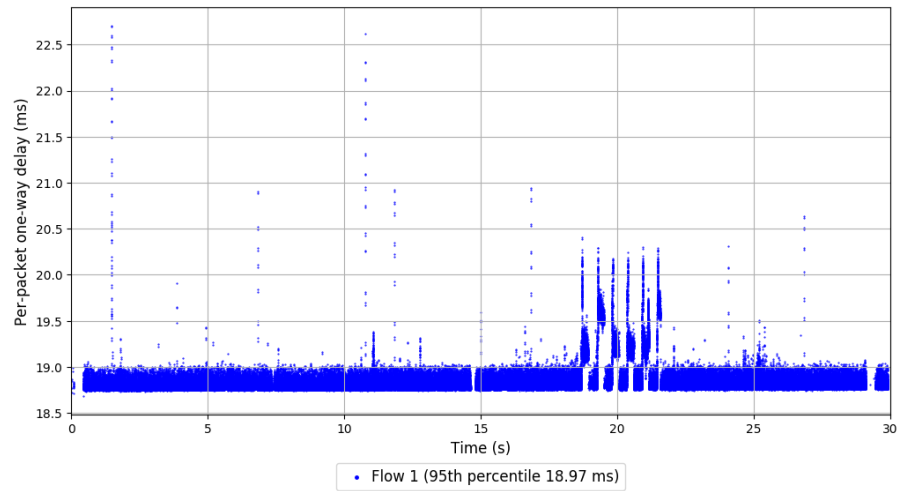
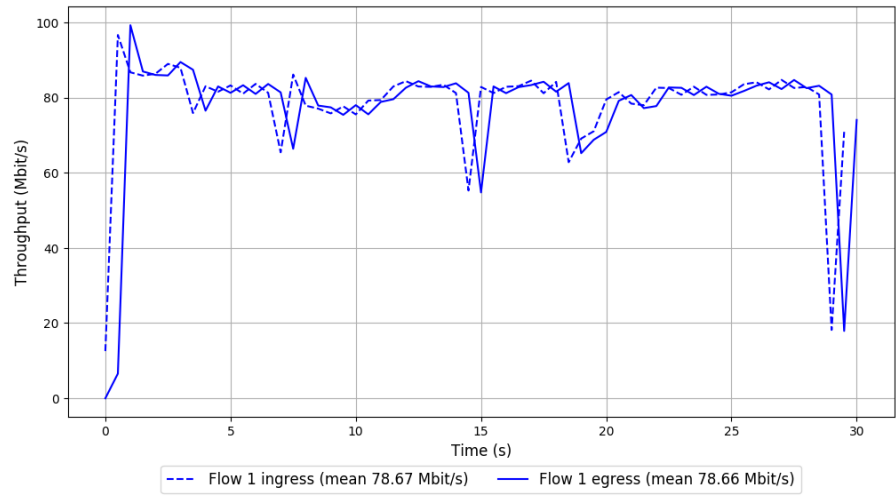


Run 5: Statistics of QUIC Cubic

Start at: 2018-05-24 05:13:59
End at: 2018-05-24 05:14:29
Local clock offset: -0.191 ms
Remote clock offset: -0.485 ms

Below is generated by plot.py at 2018-05-24 08:53:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 78.66 Mbit/s
95th percentile per-packet one-way delay: 18.974 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 78.66 Mbit/s
95th percentile per-packet one-way delay: 18.974 ms
Loss rate: 0.01%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-05-24 05:37:53

End at: 2018-05-24 05:38:23

Local clock offset: -0.103 ms

Remote clock offset: -1.056 ms

Below is generated by plot.py at 2018-05-24 08:53:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.05 Mbit/s

95th percentile per-packet one-way delay: 18.933 ms

Loss rate: 0.02%

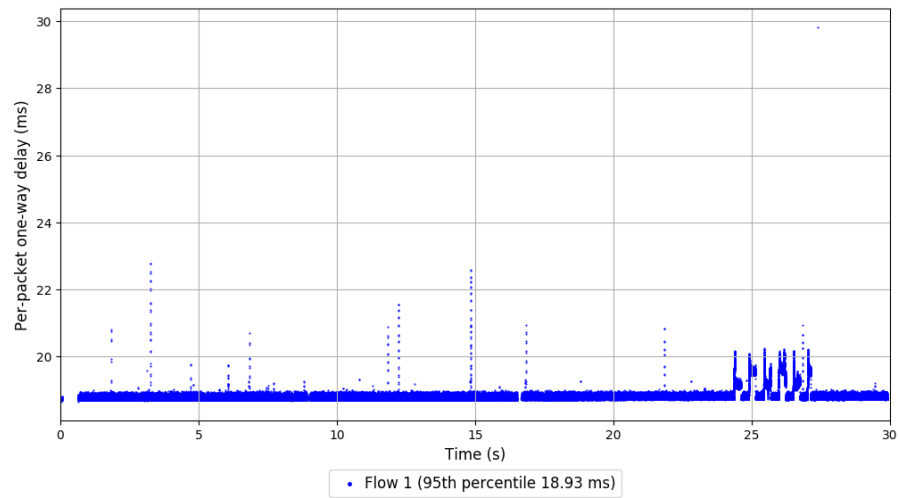
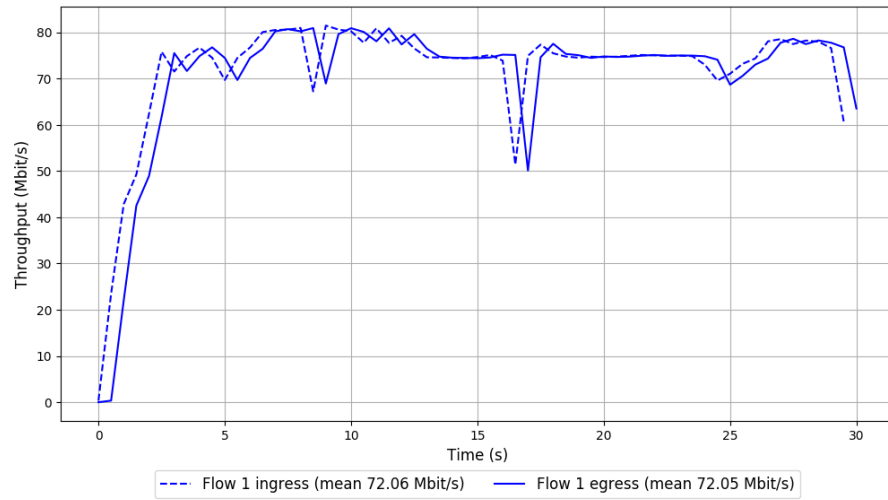
-- Flow 1:

Average throughput: 72.05 Mbit/s

95th percentile per-packet one-way delay: 18.933 ms

Loss rate: 0.02%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-05-24 06:01:57

End at: 2018-05-24 06:02:27

Local clock offset: 0.011 ms

Remote clock offset: -1.43 ms

Below is generated by plot.py at 2018-05-24 08:53:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.77 Mbit/s

95th percentile per-packet one-way delay: 18.908 ms

Loss rate: 0.02%

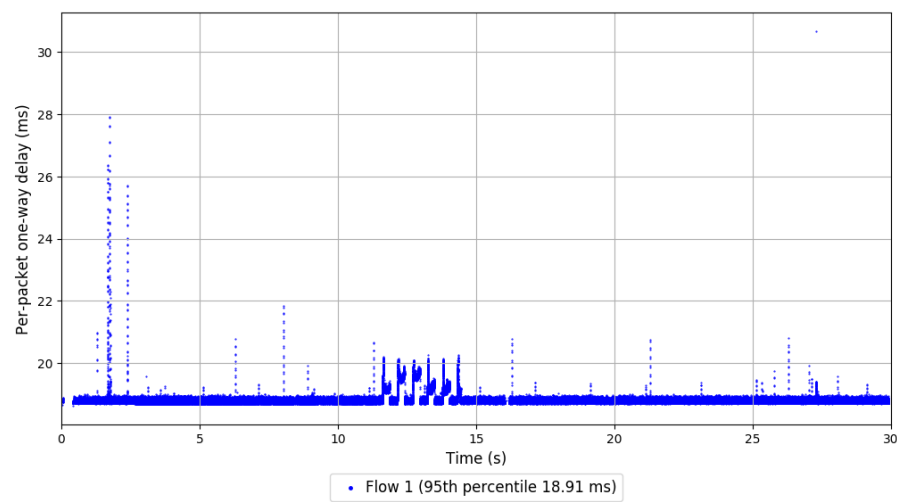
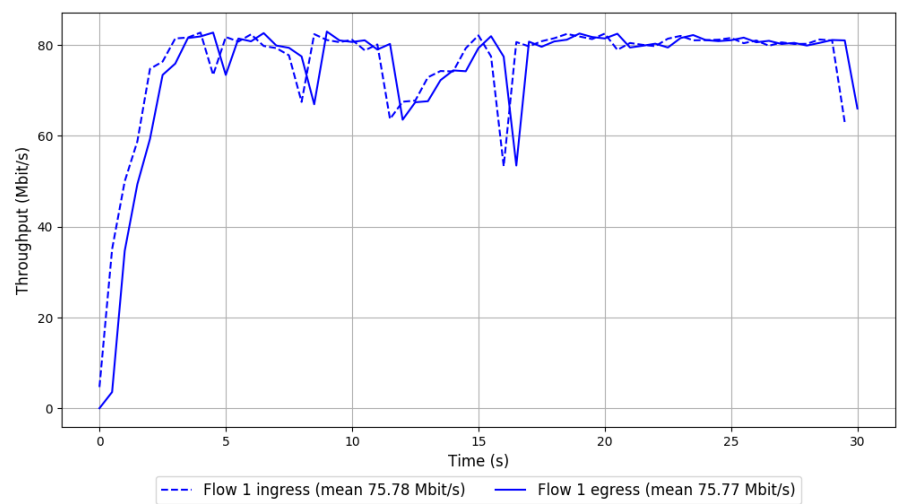
-- Flow 1:

Average throughput: 75.77 Mbit/s

95th percentile per-packet one-way delay: 18.908 ms

Loss rate: 0.02%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-05-24 06:25:22

End at: 2018-05-24 06:25:52

Local clock offset: 0.007 ms

Remote clock offset: 0.053 ms

Below is generated by plot.py at 2018-05-24 08:53:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.27 Mbit/s

95th percentile per-packet one-way delay: 18.818 ms

Loss rate: 0.00%

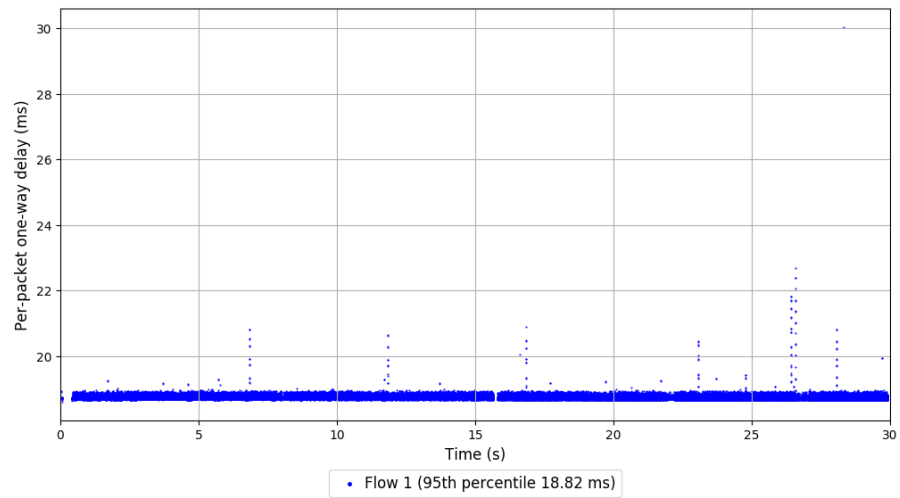
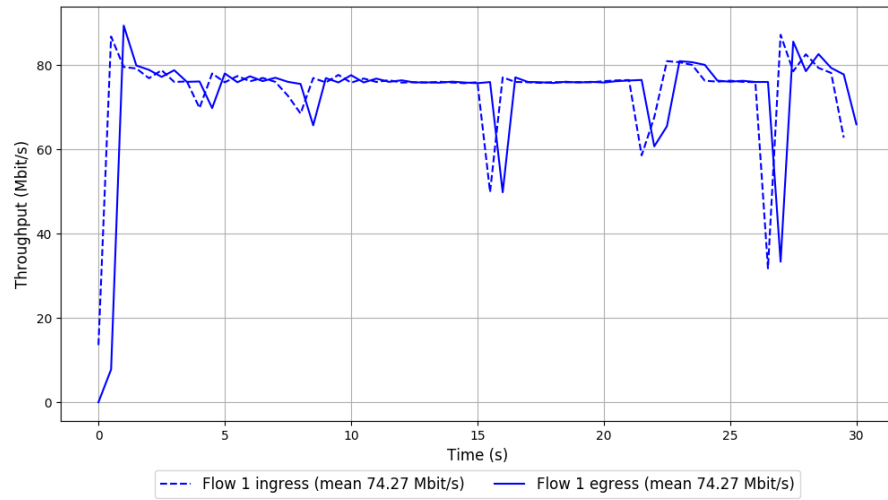
-- Flow 1:

Average throughput: 74.27 Mbit/s

95th percentile per-packet one-way delay: 18.818 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-05-24 06:49:22

End at: 2018-05-24 06:49:52

Local clock offset: 0.262 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-05-24 08:53:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.99 Mbit/s

95th percentile per-packet one-way delay: 17.443 ms

Loss rate: 0.00%

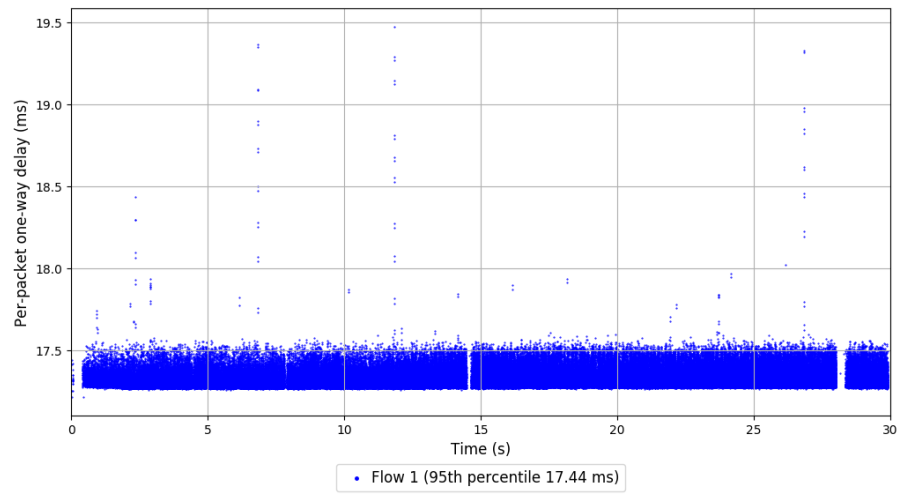
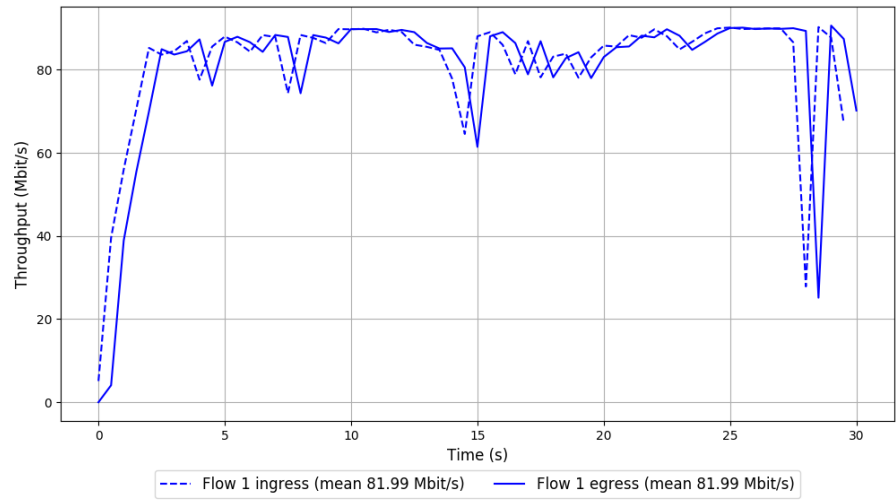
-- Flow 1:

Average throughput: 81.99 Mbit/s

95th percentile per-packet one-way delay: 17.443 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

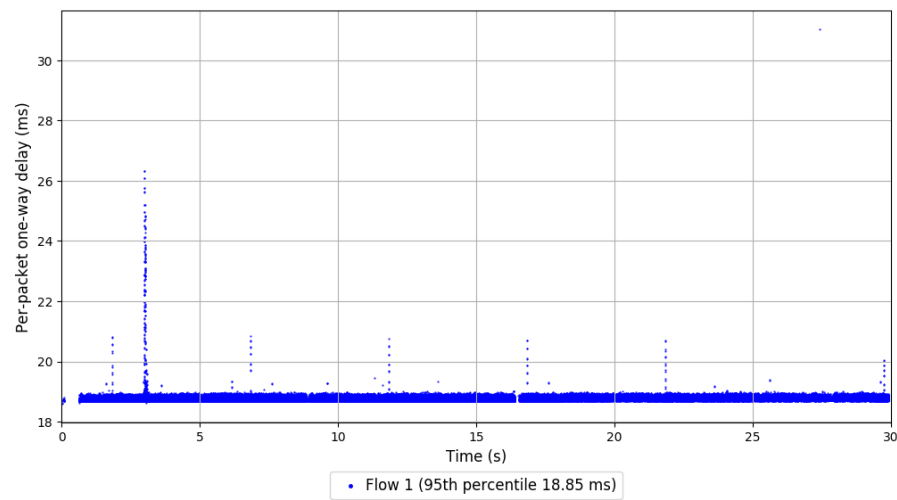
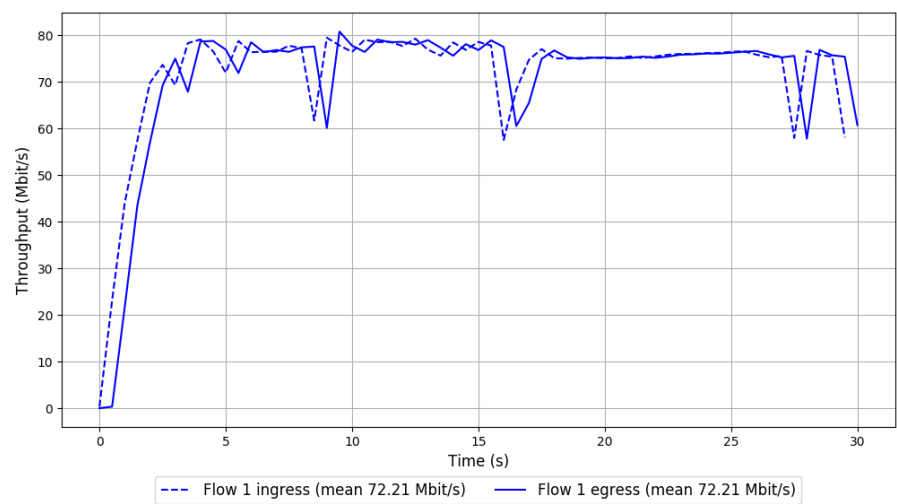


Run 10: Statistics of QUIC Cubic

Start at: 2018-05-24 07:13:21
End at: 2018-05-24 07:13:51
Local clock offset: 0.264 ms
Remote clock offset: -0.032 ms

Below is generated by plot.py at 2018-05-24 08:53:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 72.21 Mbit/s
95th percentile per-packet one-way delay: 18.854 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 72.21 Mbit/s
95th percentile per-packet one-way delay: 18.854 ms
Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

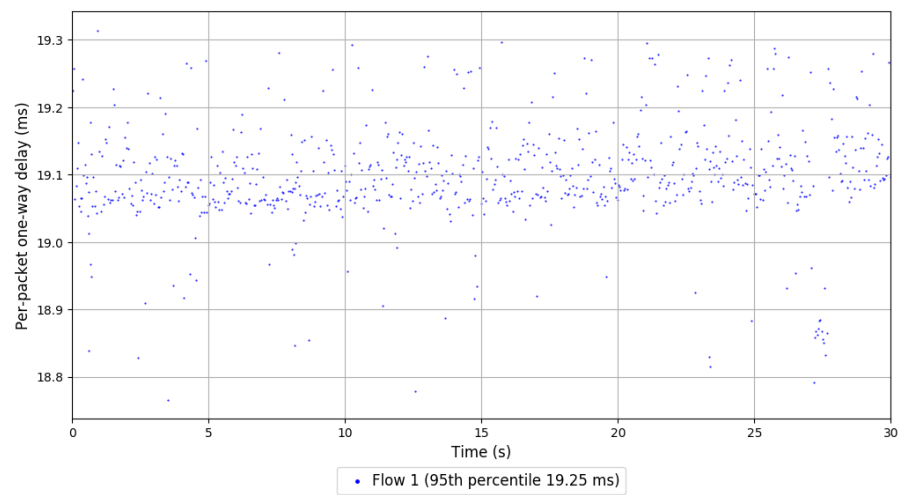
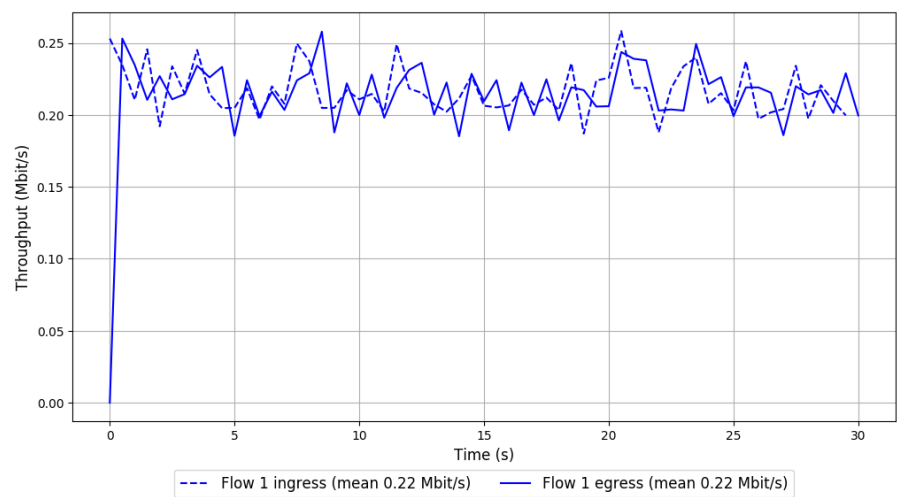


```
Run 1: Statistics of SCReAM

Start at: 2018-05-24 03:31:22
End at: 2018-05-24 03:31:52
Local clock offset: -0.321 ms
Remote clock offset: 0.255 ms

# Below is generated by plot.py at 2018-05-24 08:53:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.248 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.248 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-05-24 03:55:15

End at: 2018-05-24 03:55:45

Local clock offset: 0.079 ms

Remote clock offset: 0.702 ms

Below is generated by plot.py at 2018-05-24 08:53:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.150 ms

Loss rate: 0.00%

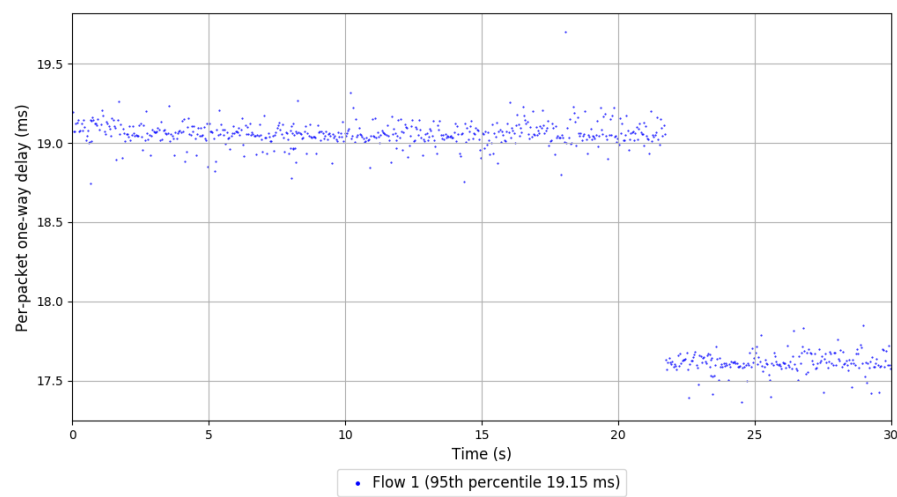
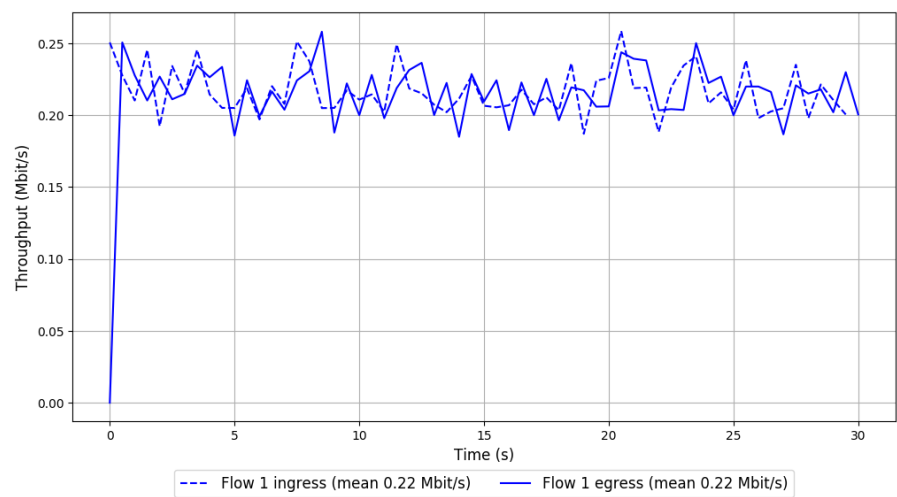
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.150 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-05-24 04:19:18

End at: 2018-05-24 04:19:48

Local clock offset: 1.225 ms

Remote clock offset: 1.125 ms

Below is generated by plot.py at 2018-05-24 08:53:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 19.245 ms

Loss rate: 0.25%

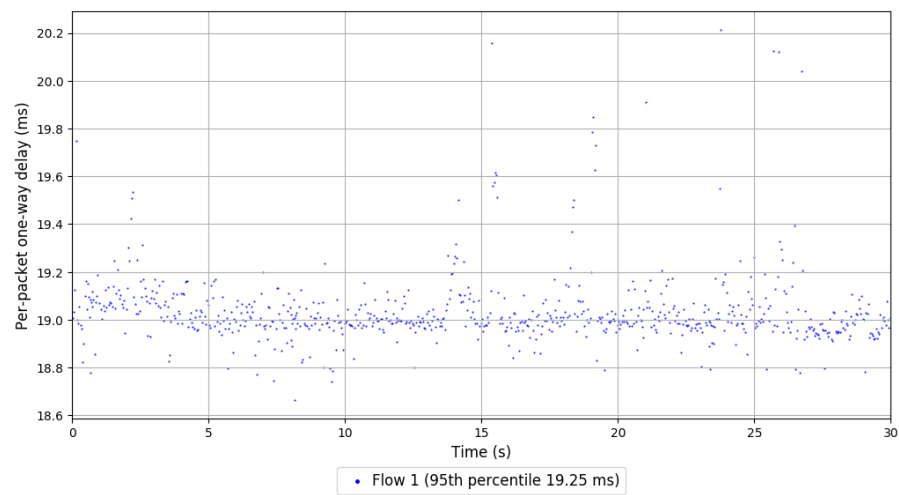
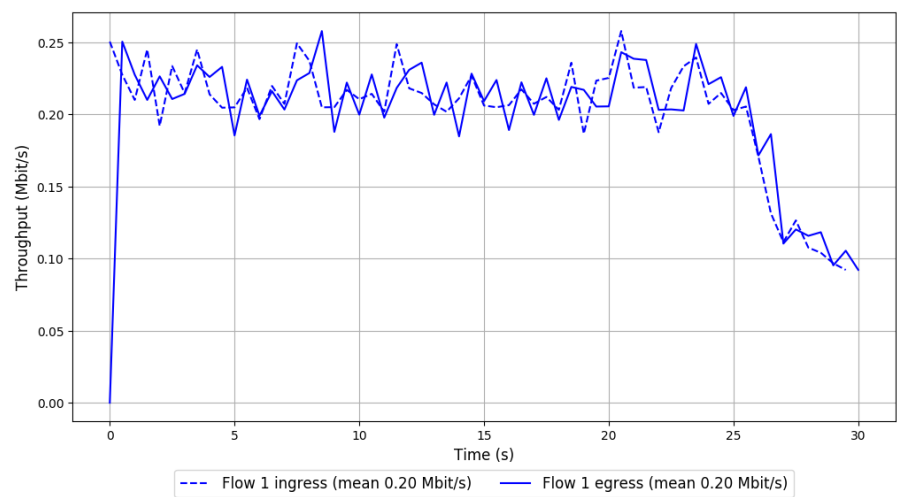
-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 19.245 ms

Loss rate: 0.25%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-05-24 04:43:04

End at: 2018-05-24 04:43:34

Local clock offset: 0.844 ms

Remote clock offset: 1.47 ms

Below is generated by plot.py at 2018-05-24 08:53:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.146 ms

Loss rate: 0.00%

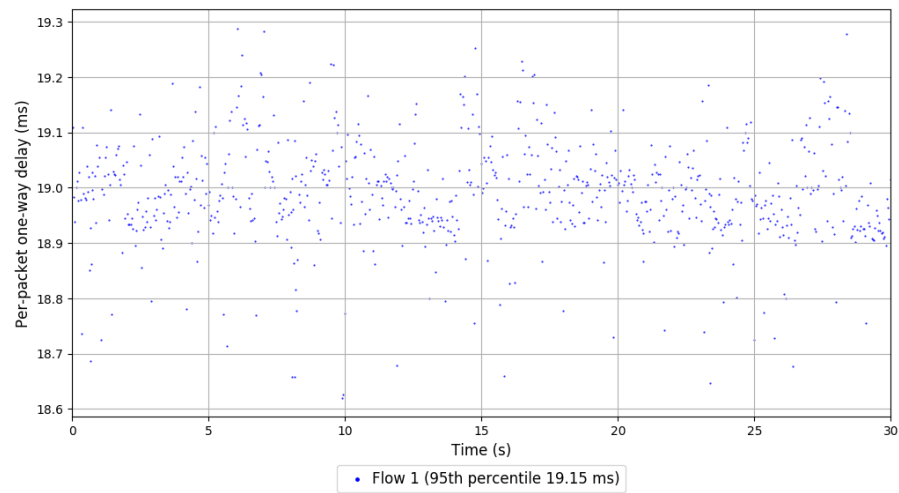
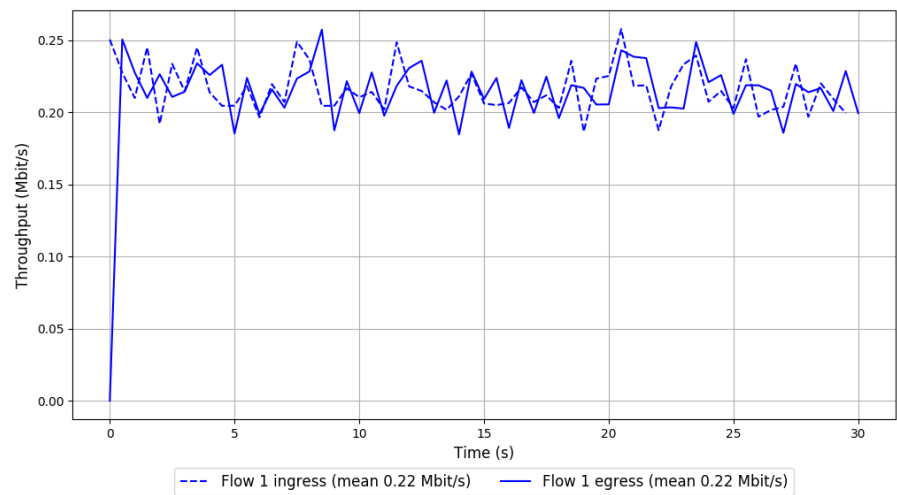
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.146 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

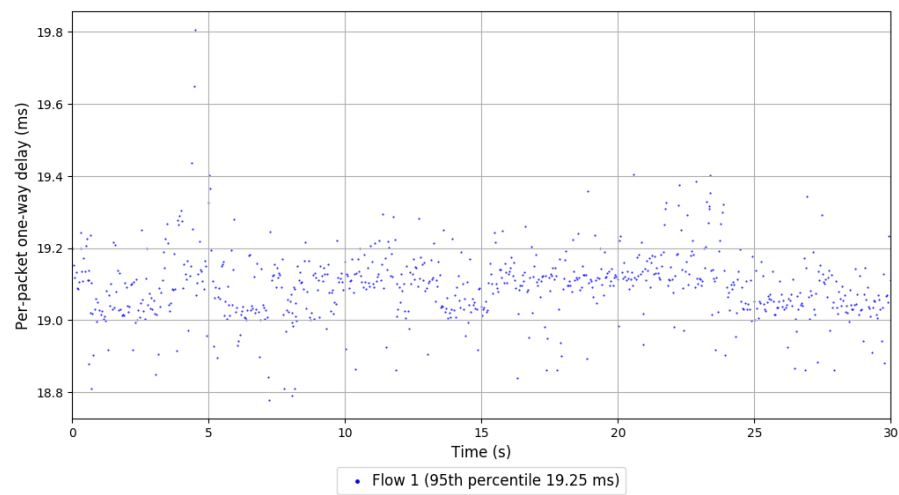
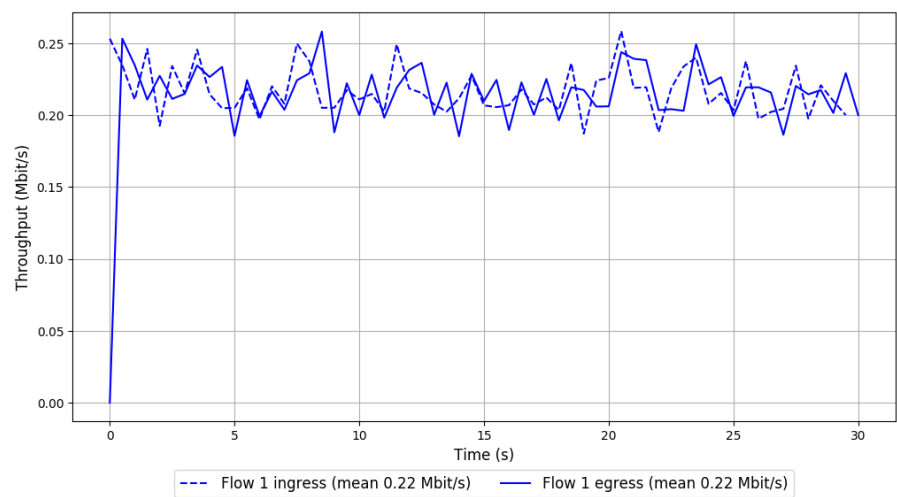


Run 5: Statistics of SCReAM

Start at: 2018-05-24 05:06:47
End at: 2018-05-24 05:07:17
Local clock offset: 0.069 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2018-05-24 08:53:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.251 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.251 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-05-24 05:30:45

End at: 2018-05-24 05:31:15

Local clock offset: -0.307 ms

Remote clock offset: -0.92 ms

Below is generated by plot.py at 2018-05-24 08:53:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.349 ms

Loss rate: 0.00%

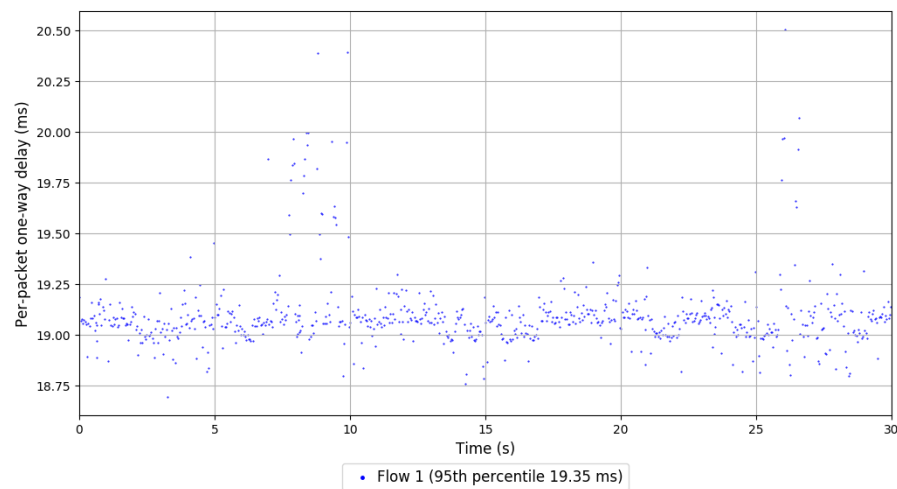
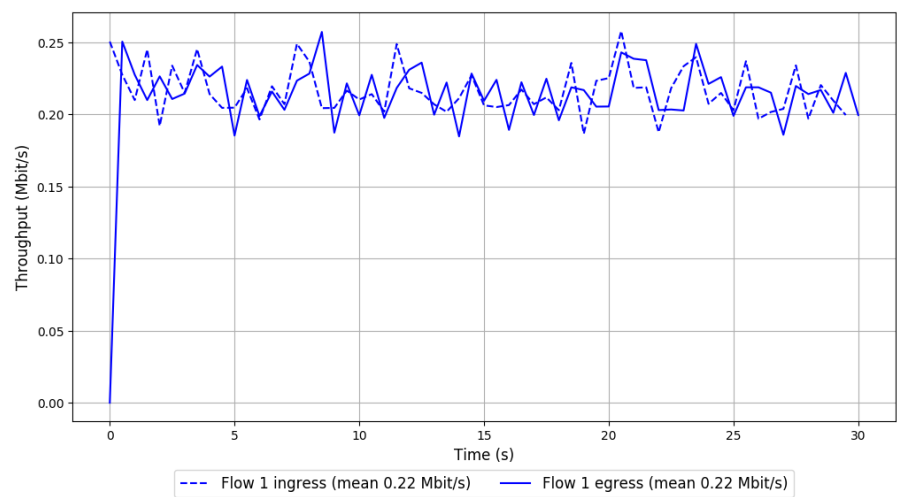
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.349 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

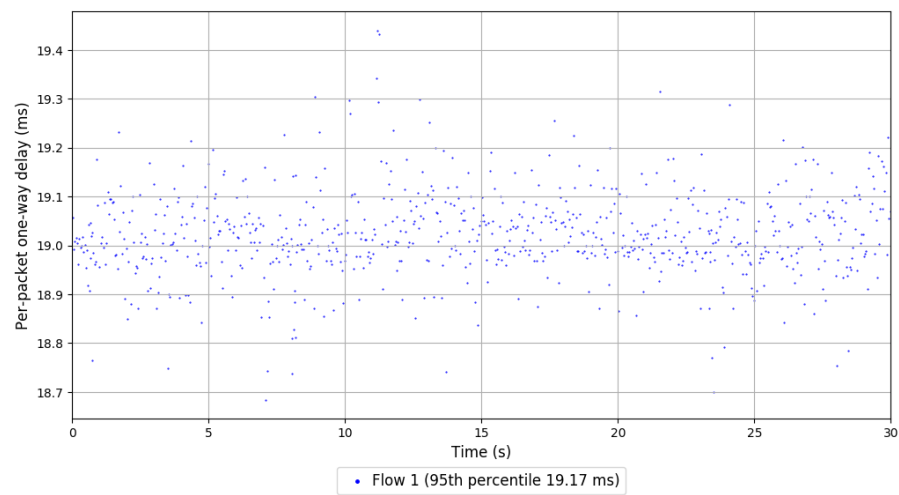
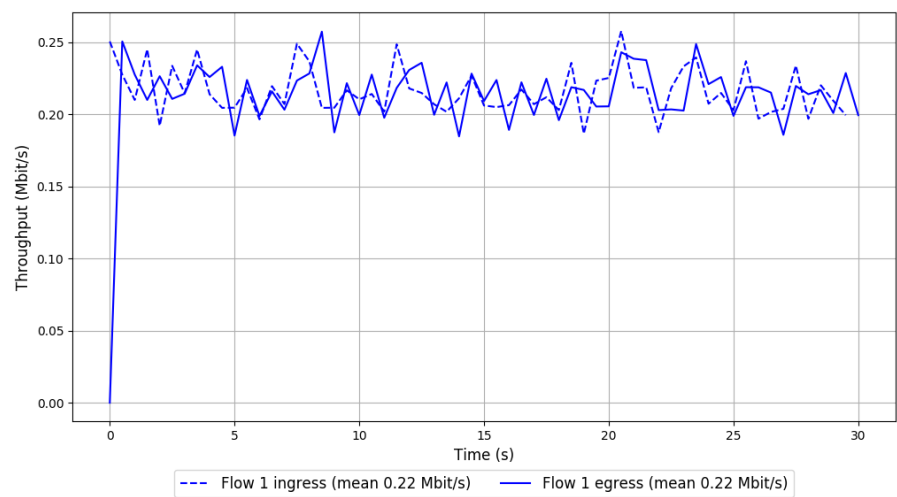


Run 7: Statistics of SCReAM

Start at: 2018-05-24 05:54:31
End at: 2018-05-24 05:55:01
Local clock offset: -0.005 ms
Remote clock offset: -1.358 ms

Below is generated by plot.py at 2018-05-24 08:53:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.173 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.173 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

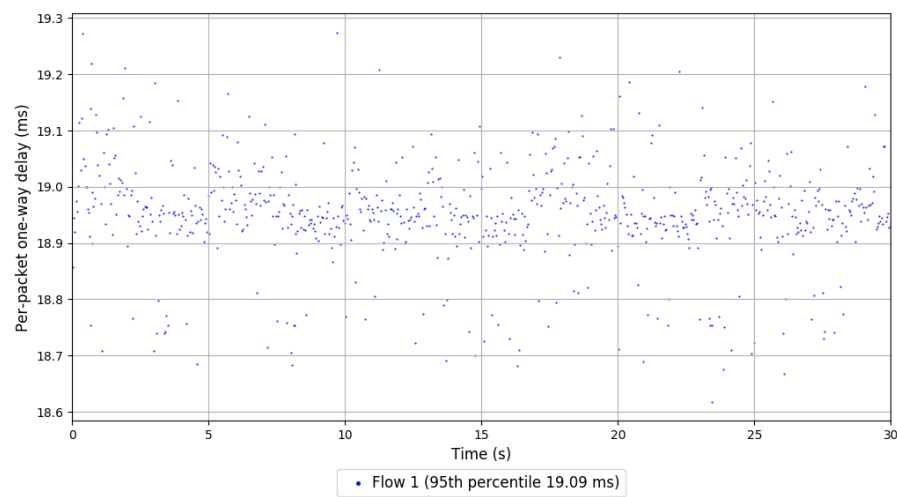
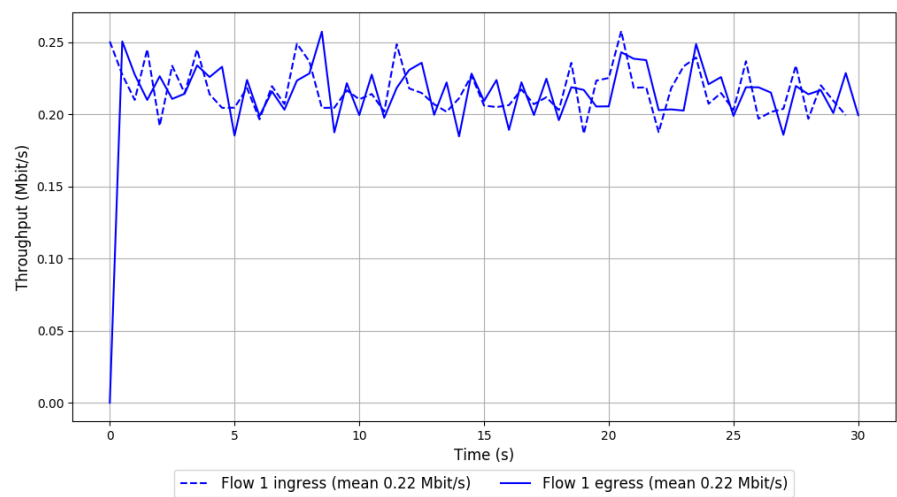


Run 8: Statistics of SCReAM

Start at: 2018-05-24 06:18:15
End at: 2018-05-24 06:18:45
Local clock offset: 0.026 ms
Remote clock offset: -0.222 ms

Below is generated by plot.py at 2018-05-24 08:53:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.094 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.094 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-05-24 06:42:03

End at: 2018-05-24 06:42:33

Local clock offset: 0.125 ms

Remote clock offset: 0.126 ms

Below is generated by plot.py at 2018-05-24 08:53:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.826 ms

Loss rate: 0.00%

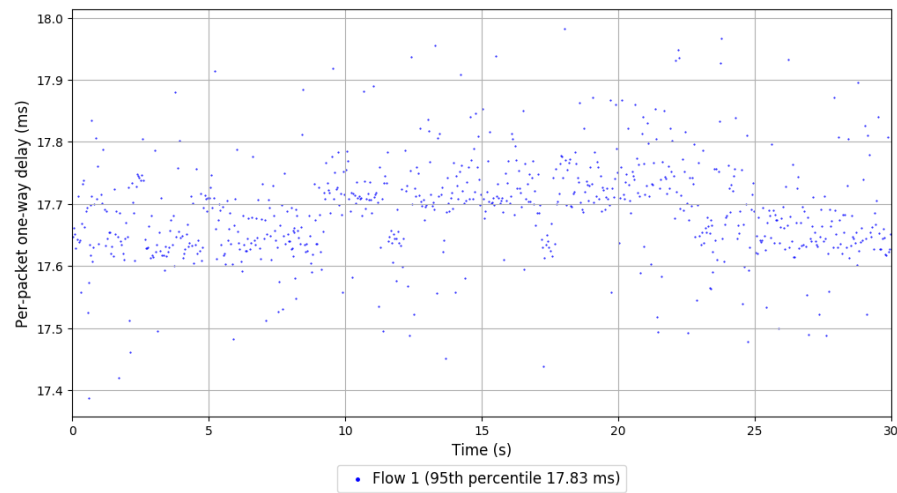
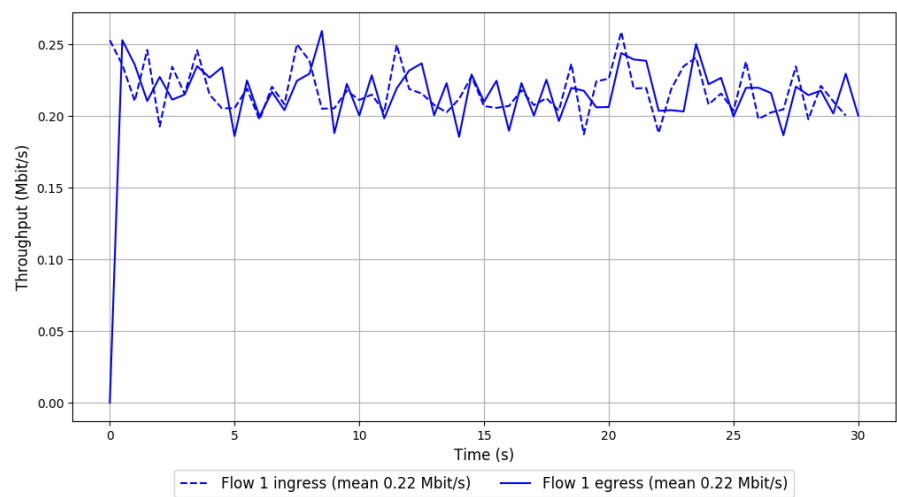
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.826 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-05-24 07:05:57

End at: 2018-05-24 07:06:28

Local clock offset: 0.167 ms

Remote clock offset: -0.019 ms

Below is generated by plot.py at 2018-05-24 08:53:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 19.300 ms

Loss rate: 0.15%

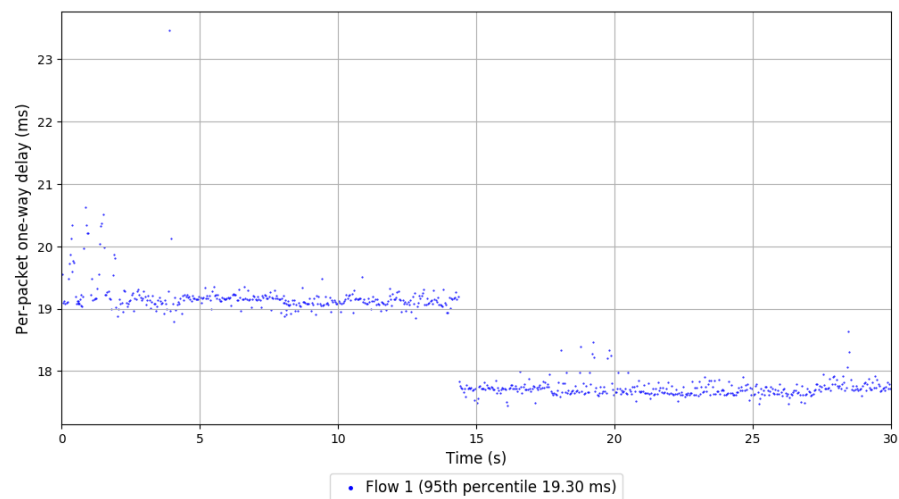
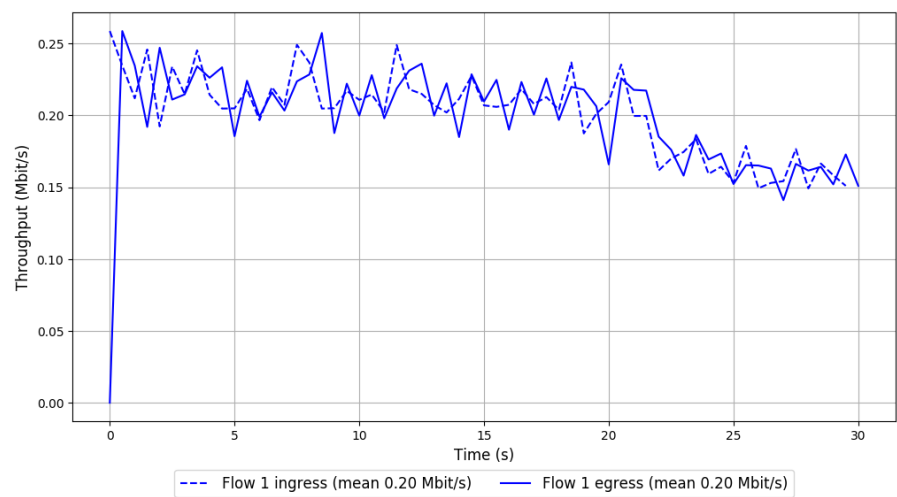
-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 19.300 ms

Loss rate: 0.15%

Run 10: Report of SCReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-05-24 03:49:33

End at: 2018-05-24 03:50:04

Local clock offset: 0.227 ms

Remote clock offset: 0.675 ms

Below is generated by plot.py at 2018-05-24 08:53:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.15 Mbit/s

95th percentile per-packet one-way delay: 21.261 ms

Loss rate: 0.00%

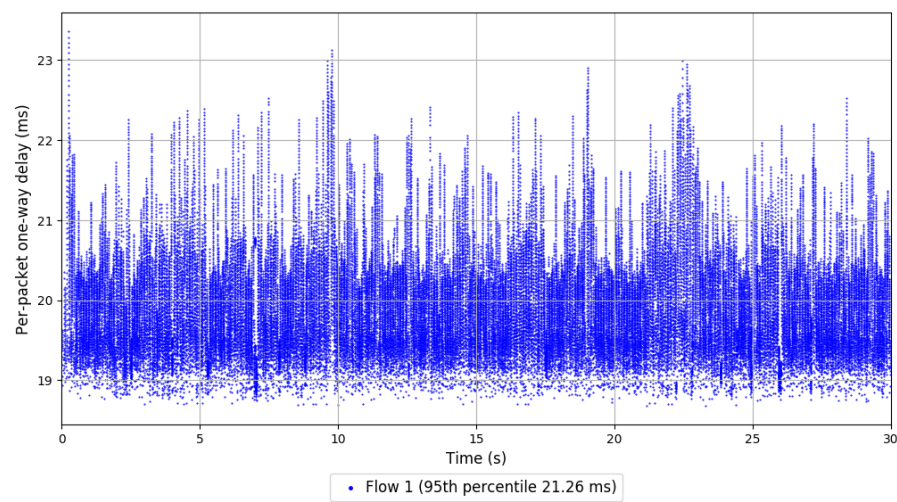
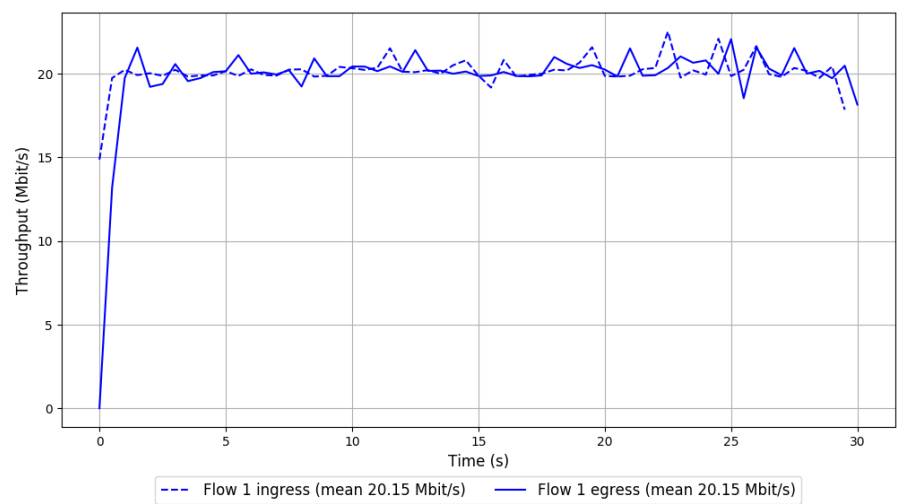
-- Flow 1:

Average throughput: 20.15 Mbit/s

95th percentile per-packet one-way delay: 21.261 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-05-24 04:13:34

End at: 2018-05-24 04:14:04

Local clock offset: 1.034 ms

Remote clock offset: 1.012 ms

Below is generated by plot.py at 2018-05-24 08:53:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.93 Mbit/s

95th percentile per-packet one-way delay: 20.935 ms

Loss rate: 1.22%

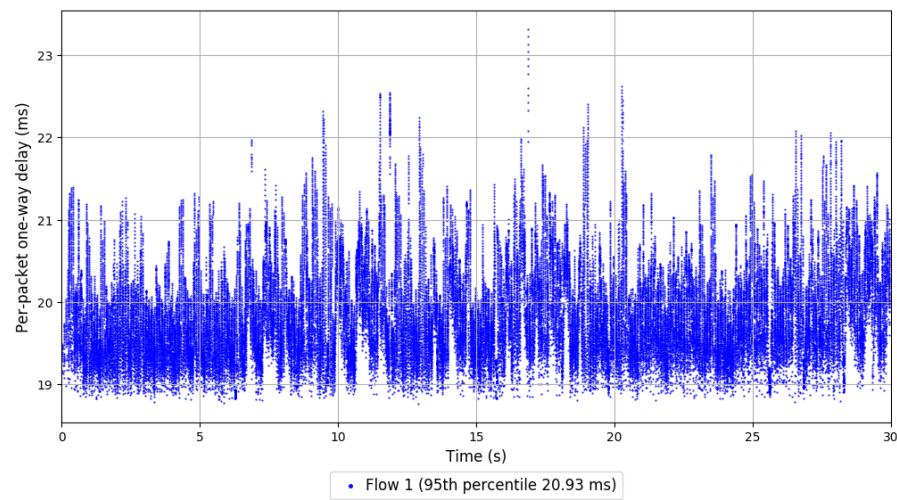
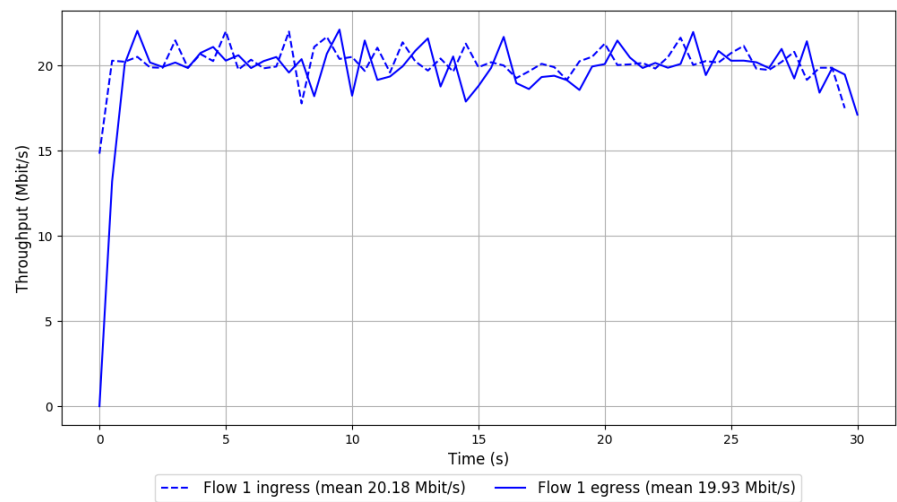
-- Flow 1:

Average throughput: 19.93 Mbit/s

95th percentile per-packet one-way delay: 20.935 ms

Loss rate: 1.22%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-05-24 04:37:18

End at: 2018-05-24 04:37:48

Local clock offset: 0.894 ms

Remote clock offset: 1.464 ms

Below is generated by plot.py at 2018-05-24 08:53:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.92 Mbit/s

95th percentile per-packet one-way delay: 21.166 ms

Loss rate: 0.70%

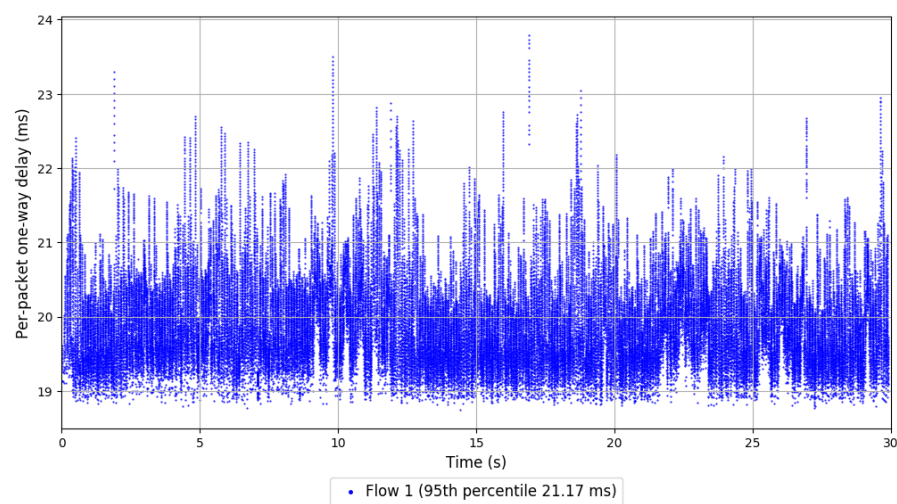
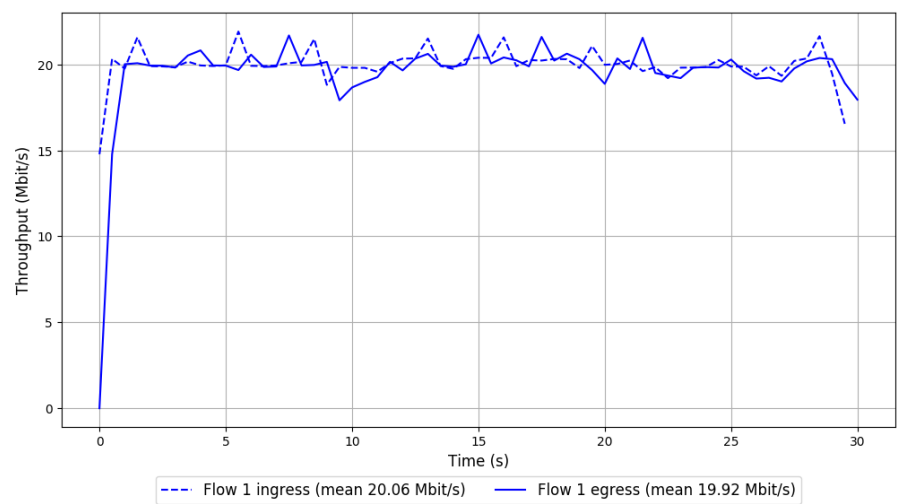
-- Flow 1:

Average throughput: 19.92 Mbit/s

95th percentile per-packet one-way delay: 21.166 ms

Loss rate: 0.70%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-05-24 05:01:07

End at: 2018-05-24 05:01:37

Local clock offset: 0.431 ms

Remote clock offset: 0.577 ms

Below is generated by plot.py at 2018-05-24 08:53:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.00 Mbit/s

95th percentile per-packet one-way delay: 21.456 ms

Loss rate: 1.03%

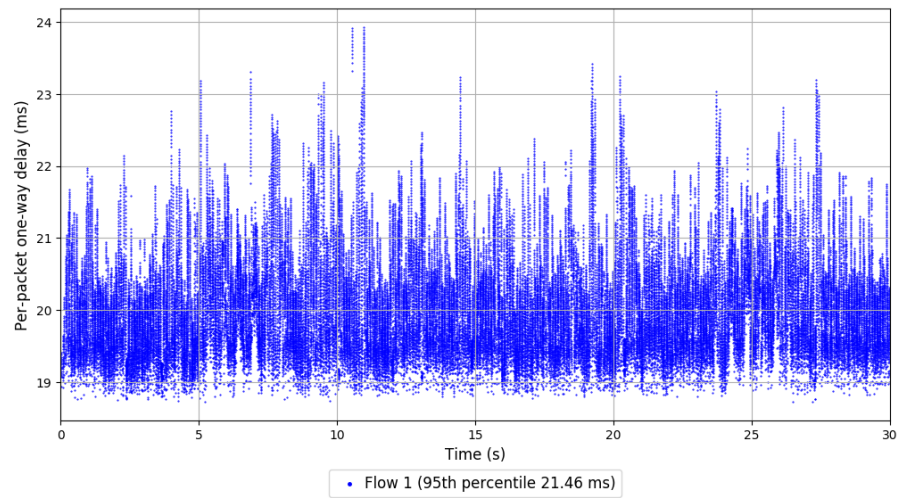
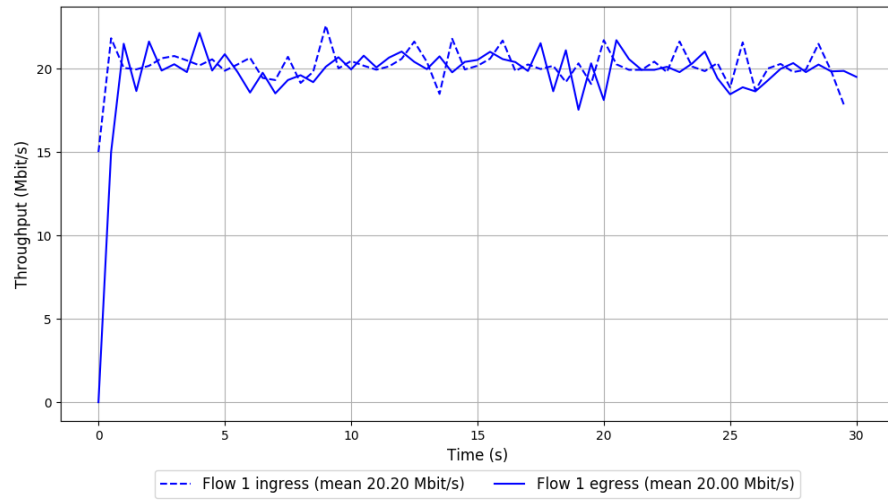
-- Flow 1:

Average throughput: 20.00 Mbit/s

95th percentile per-packet one-way delay: 21.456 ms

Loss rate: 1.03%

Run 4: Report of Sprout — Data Link

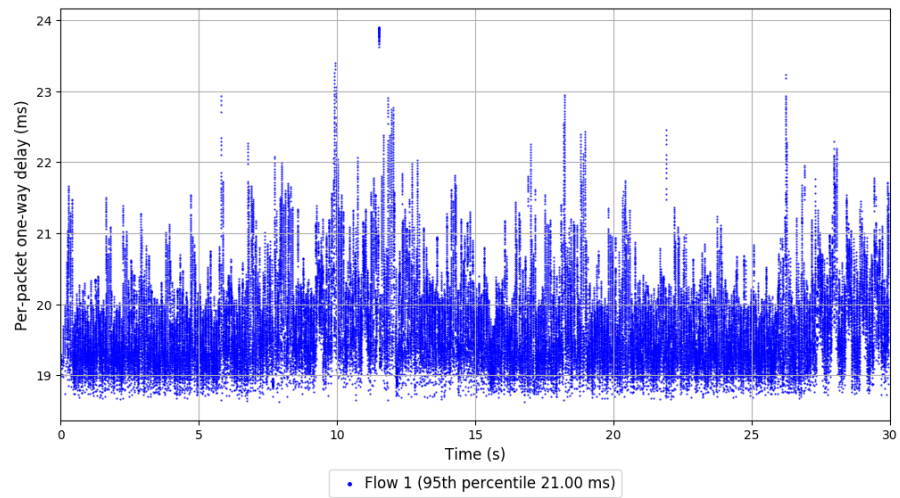
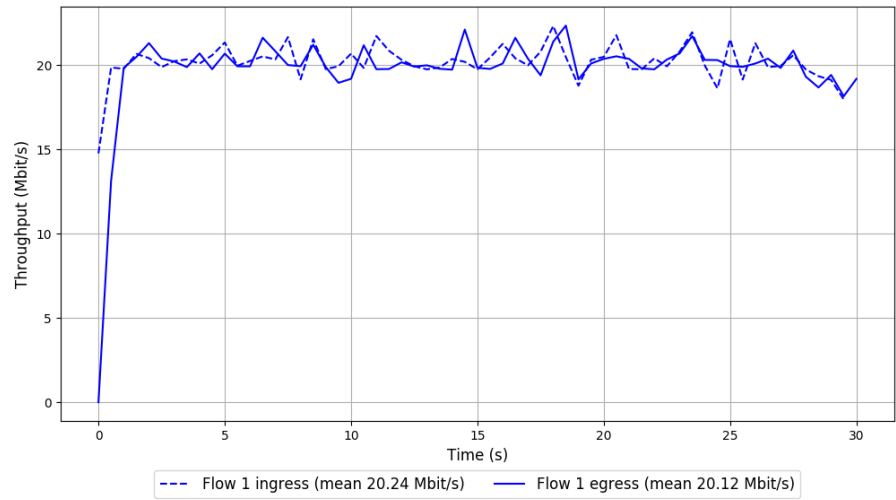


Run 5: Statistics of Sprout

Start at: 2018-05-24 05:25:02
End at: 2018-05-24 05:25:32
Local clock offset: -0.325 ms
Remote clock offset: -0.819 ms

Below is generated by plot.py at 2018-05-24 08:53:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.12 Mbit/s
95th percentile per-packet one-way delay: 20.997 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 20.12 Mbit/s
95th percentile per-packet one-way delay: 20.997 ms
Loss rate: 0.57%

Run 5: Report of Sprout — Data Link

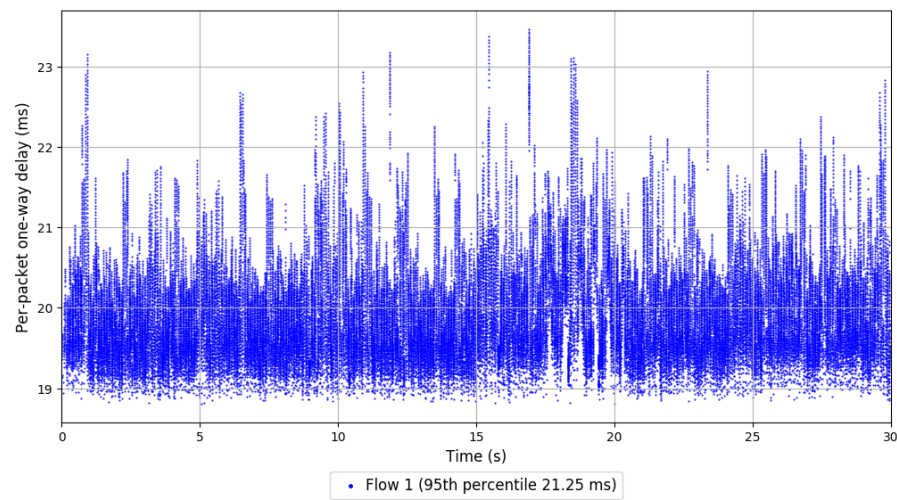
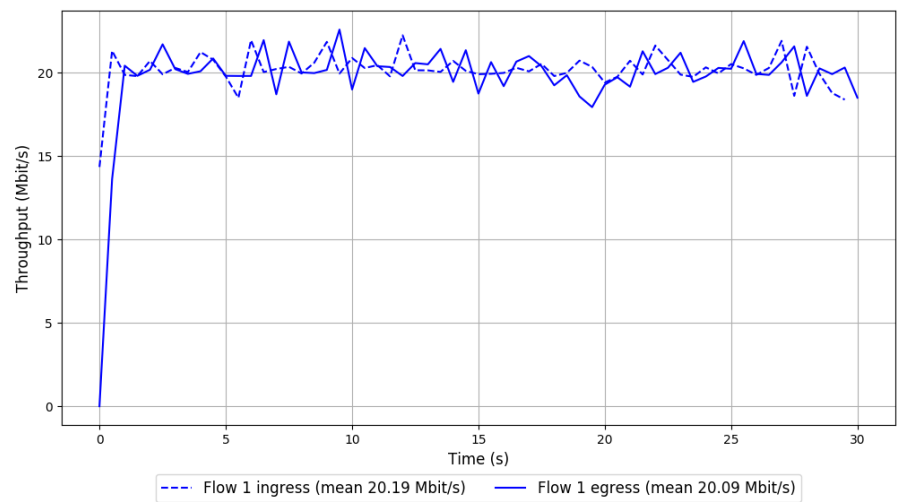


Run 6: Statistics of Sprout

Start at: 2018-05-24 05:48:45
End at: 2018-05-24 05:49:15
Local clock offset: -0.084 ms
Remote clock offset: -1.182 ms

Below is generated by plot.py at 2018-05-24 08:53:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.09 Mbit/s
95th percentile per-packet one-way delay: 21.252 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 20.09 Mbit/s
95th percentile per-packet one-way delay: 21.252 ms
Loss rate: 0.49%

Run 6: Report of Sprout — Data Link

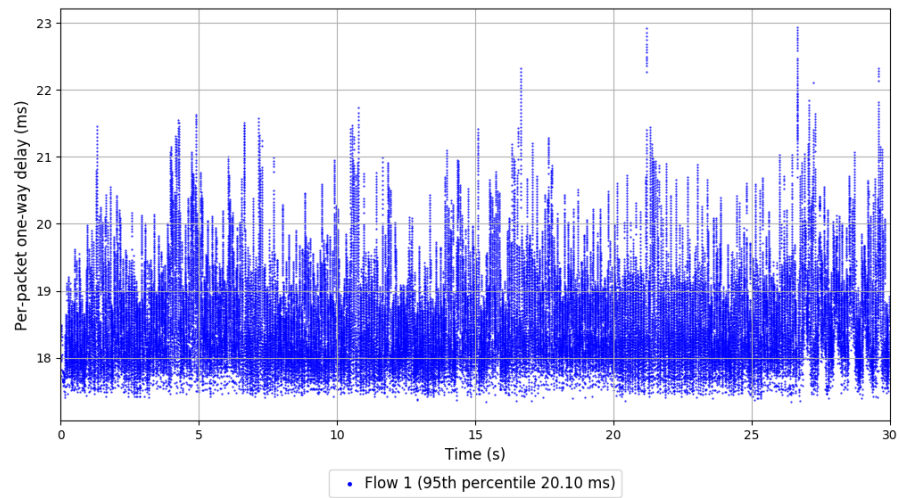
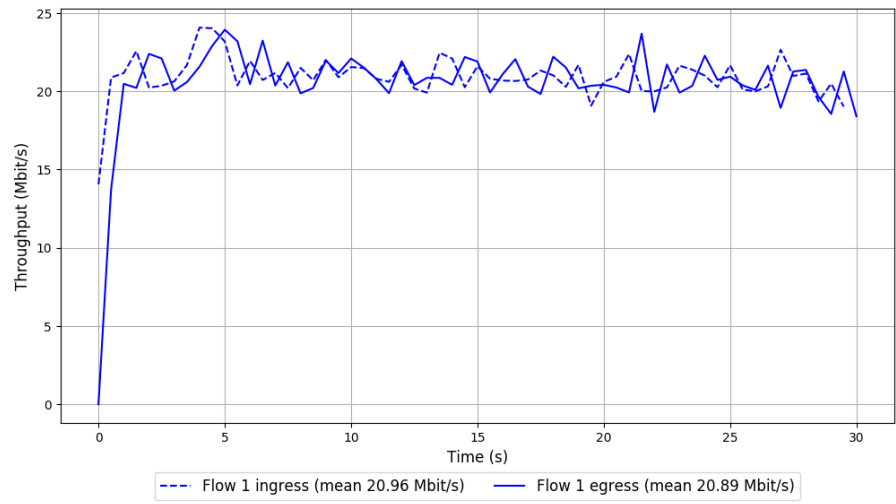


Run 7: Statistics of Sprout

Start at: 2018-05-24 06:12:32
End at: 2018-05-24 06:13:02
Local clock offset: -0.063 ms
Remote clock offset: -0.417 ms

Below is generated by plot.py at 2018-05-24 08:53:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.89 Mbit/s
95th percentile per-packet one-way delay: 20.102 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 20.89 Mbit/s
95th percentile per-packet one-way delay: 20.102 ms
Loss rate: 0.36%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-05-24 06:36:24

End at: 2018-05-24 06:36:54

Local clock offset: 0.07 ms

Remote clock offset: 0.237 ms

Below is generated by plot.py at 2018-05-24 08:53:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.04 Mbit/s

95th percentile per-packet one-way delay: 21.401 ms

Loss rate: 0.37%

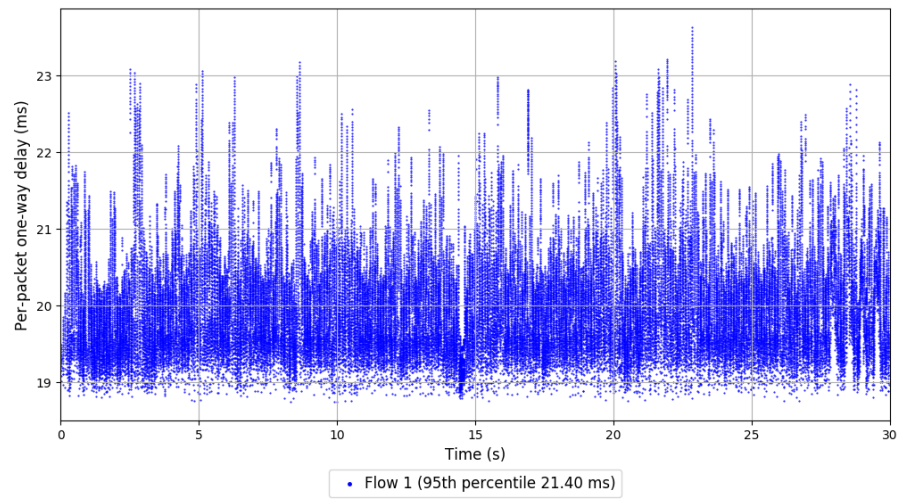
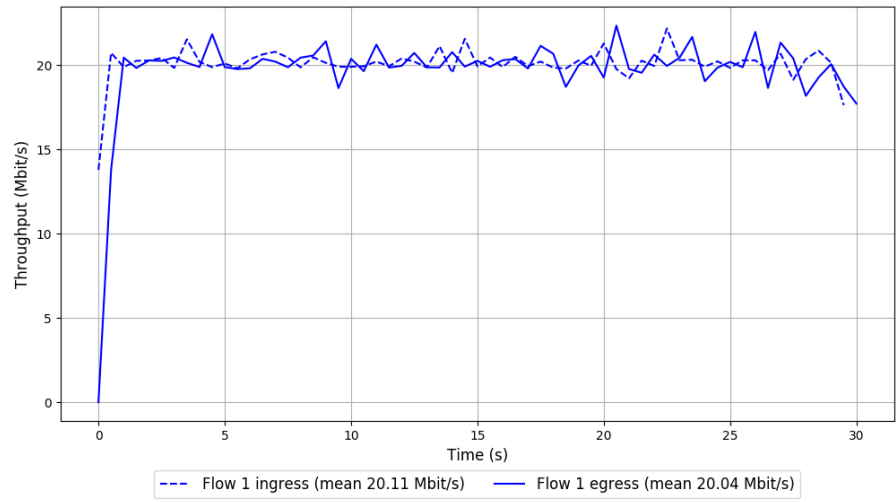
-- Flow 1:

Average throughput: 20.04 Mbit/s

95th percentile per-packet one-way delay: 21.401 ms

Loss rate: 0.37%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-05-24 07:00:20

End at: 2018-05-24 07:00:50

Local clock offset: 0.189 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-05-24 08:53:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.04 Mbit/s

95th percentile per-packet one-way delay: 21.070 ms

Loss rate: 0.04%

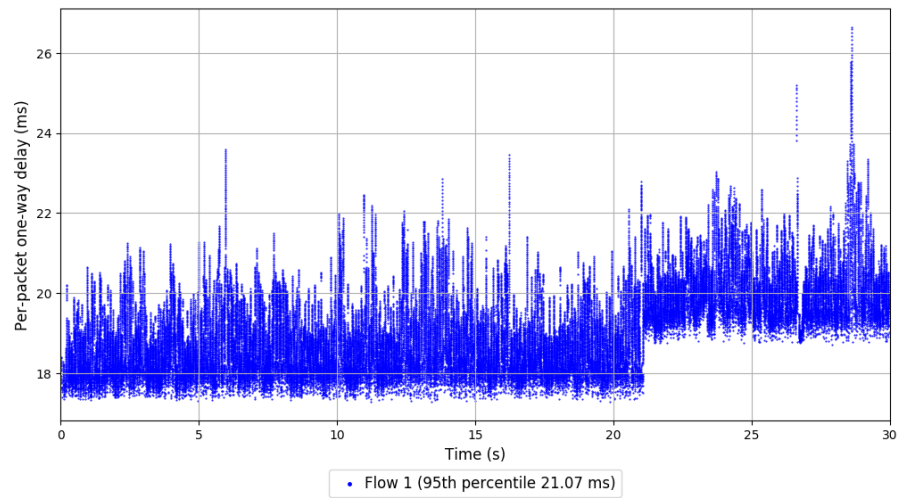
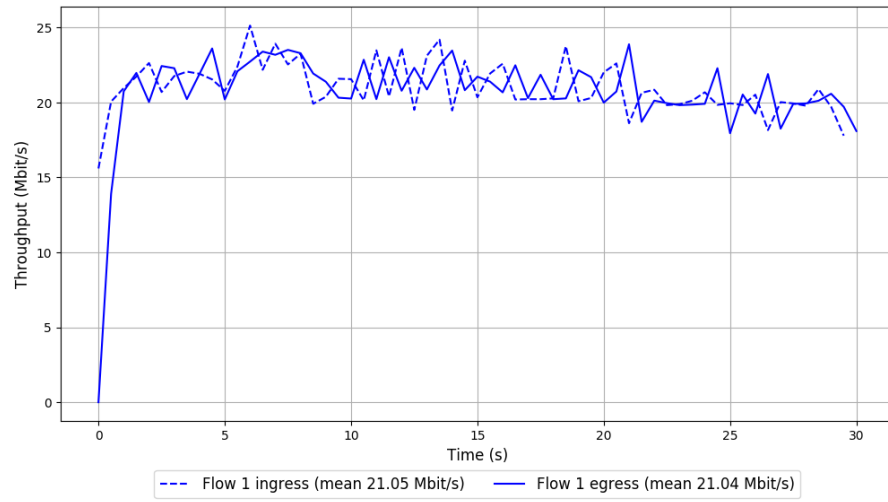
-- Flow 1:

Average throughput: 21.04 Mbit/s

95th percentile per-packet one-way delay: 21.070 ms

Loss rate: 0.04%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-05-24 07:24:25

End at: 2018-05-24 07:24:55

Local clock offset: 0.256 ms

Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-05-24 08:53:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.98 Mbit/s

95th percentile per-packet one-way delay: 21.290 ms

Loss rate: 0.00%

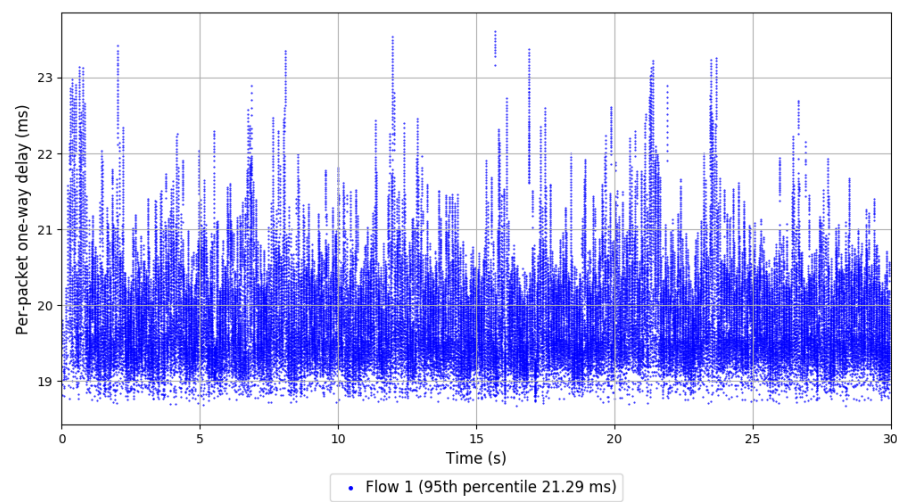
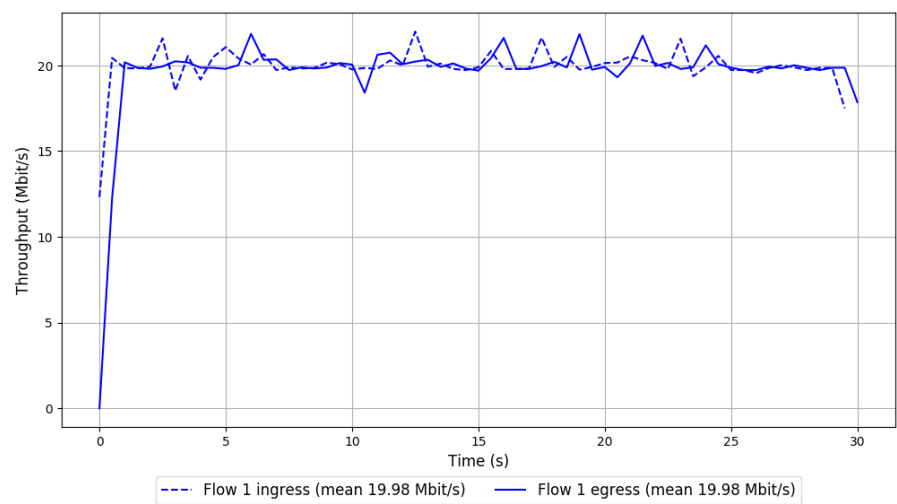
-- Flow 1:

Average throughput: 19.98 Mbit/s

95th percentile per-packet one-way delay: 21.290 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

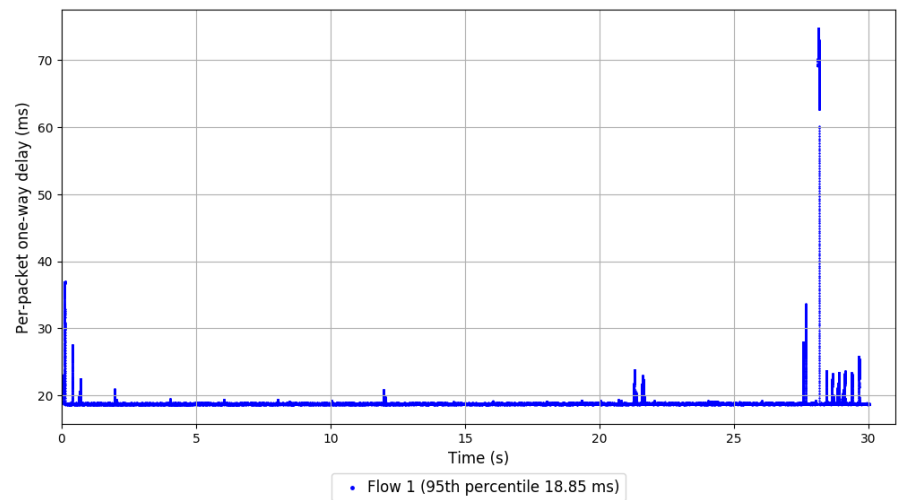
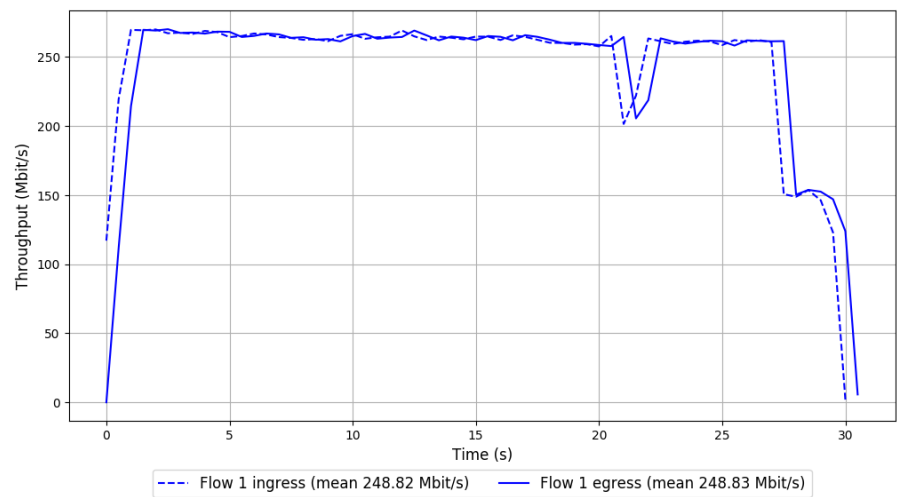


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-05-24 03:35:40
End at: 2018-05-24 03:36:10
Local clock offset: 0.05 ms
Remote clock offset: 0.306 ms

# Below is generated by plot.py at 2018-05-24 08:56:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 248.83 Mbit/s
95th percentile per-packet one-way delay: 18.854 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 248.83 Mbit/s
95th percentile per-packet one-way delay: 18.854 ms
Loss rate: 0.00%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-05-24 03:59:49

End at: 2018-05-24 04:00:19

Local clock offset: 0.182 ms

Remote clock offset: 0.79 ms

Below is generated by plot.py at 2018-05-24 08:56:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 239.04 Mbit/s

95th percentile per-packet one-way delay: 19.006 ms

Loss rate: 0.00%

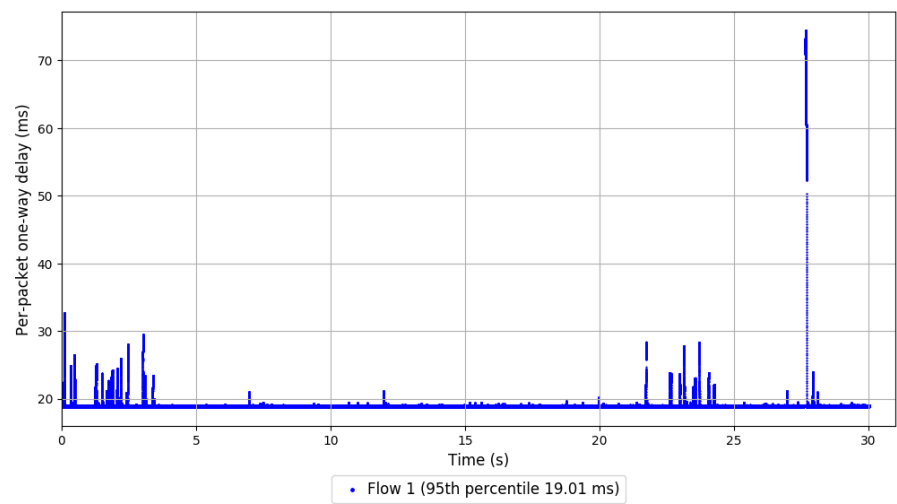
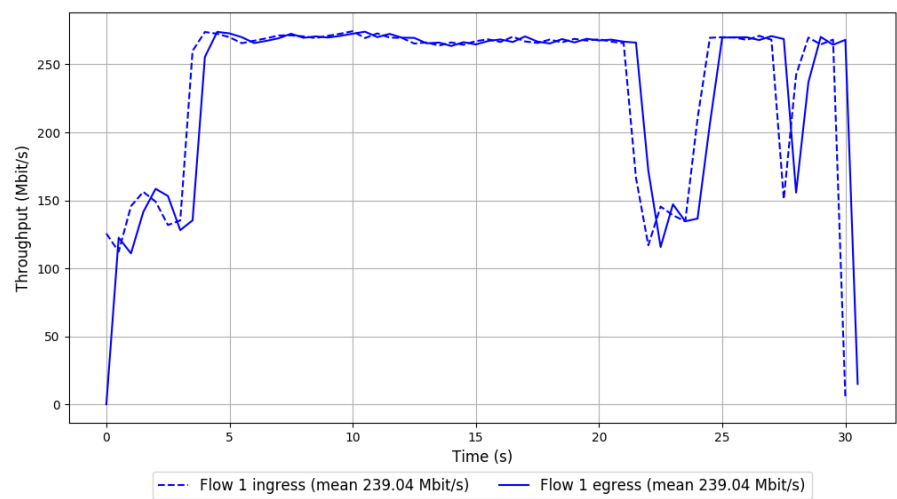
-- Flow 1:

Average throughput: 239.04 Mbit/s

95th percentile per-packet one-way delay: 19.006 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-05-24 04:23:41

End at: 2018-05-24 04:24:11

Local clock offset: 1.276 ms

Remote clock offset: 1.156 ms

Below is generated by plot.py at 2018-05-24 08:56:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 244.83 Mbit/s

95th percentile per-packet one-way delay: 19.518 ms

Loss rate: 0.01%

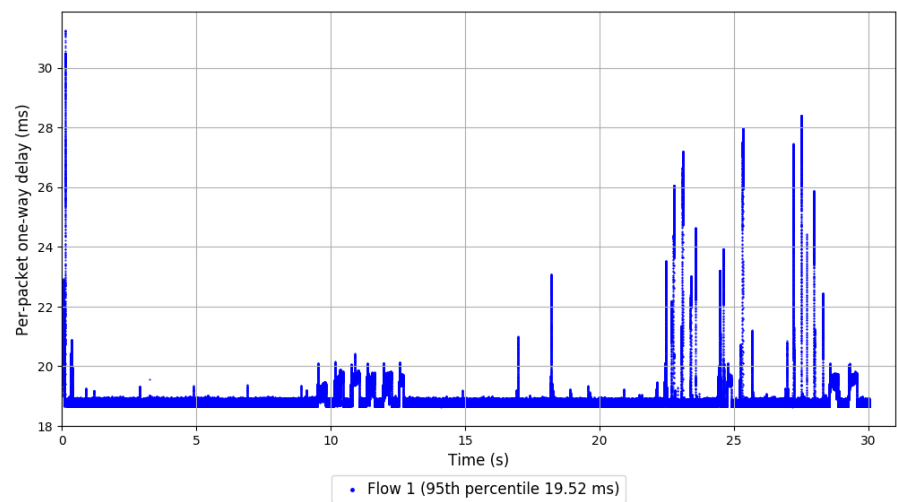
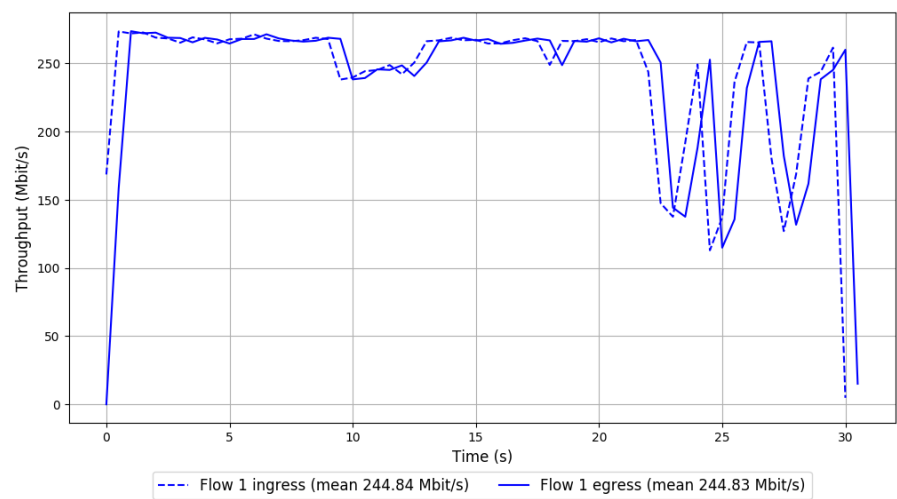
-- Flow 1:

Average throughput: 244.83 Mbit/s

95th percentile per-packet one-way delay: 19.518 ms

Loss rate: 0.01%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-05-24 04:47:29

End at: 2018-05-24 04:47:59

Local clock offset: 0.771 ms

Remote clock offset: 1.545 ms

Below is generated by plot.py at 2018-05-24 08:56:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 252.37 Mbit/s

95th percentile per-packet one-way delay: 19.175 ms

Loss rate: 0.02%

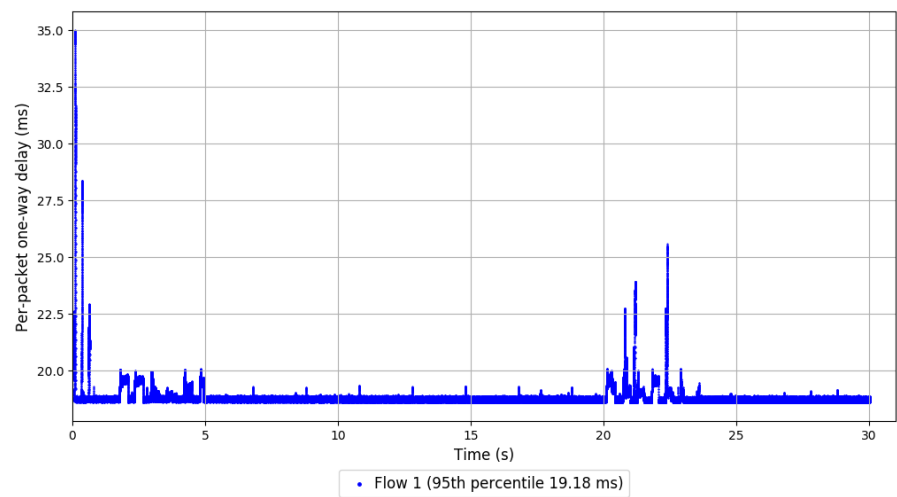
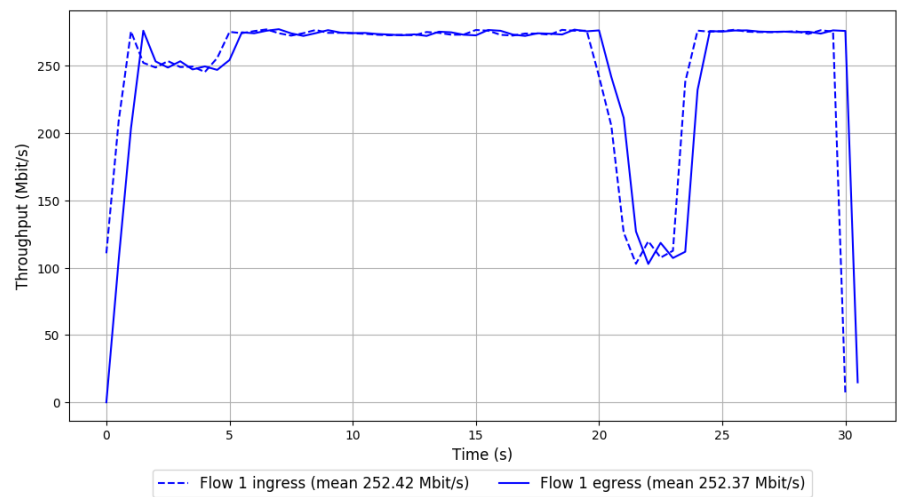
-- Flow 1:

Average throughput: 252.37 Mbit/s

95th percentile per-packet one-way delay: 19.175 ms

Loss rate: 0.02%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-05-24 05:11:06

End at: 2018-05-24 05:11:36

Local clock offset: -0.008 ms

Remote clock offset: -0.378 ms

Below is generated by plot.py at 2018-05-24 08:58:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 260.87 Mbit/s

95th percentile per-packet one-way delay: 18.808 ms

Loss rate: 0.00%

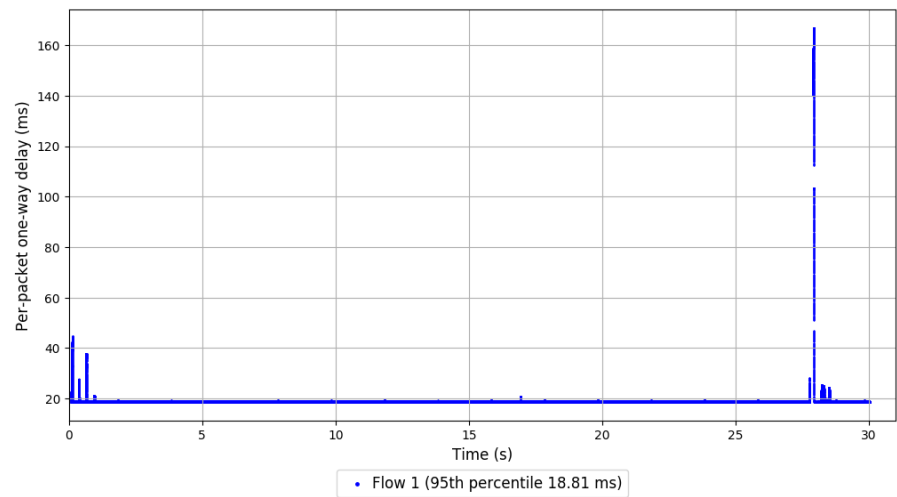
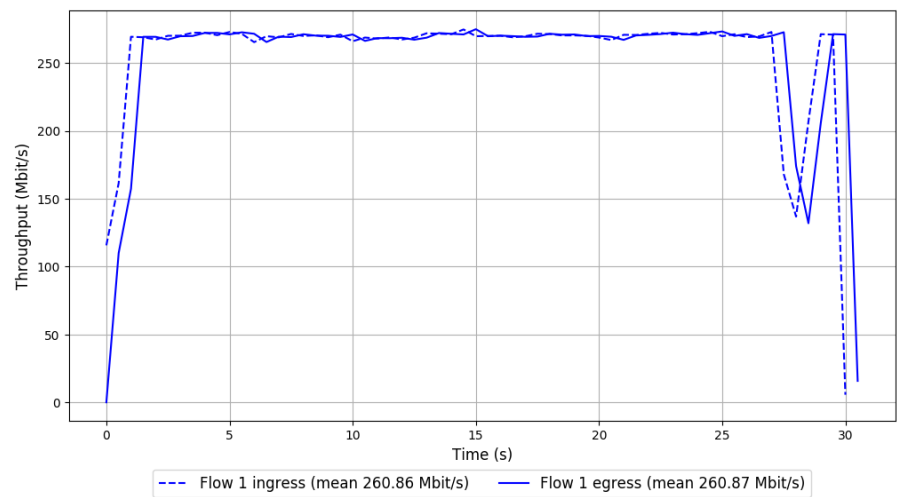
-- Flow 1:

Average throughput: 260.87 Mbit/s

95th percentile per-packet one-way delay: 18.808 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-05-24 05:35:04

End at: 2018-05-24 05:35:34

Local clock offset: -0.244 ms

Remote clock offset: -0.988 ms

Below is generated by plot.py at 2018-05-24 08:58:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.97 Mbit/s

95th percentile per-packet one-way delay: 19.332 ms

Loss rate: 0.00%

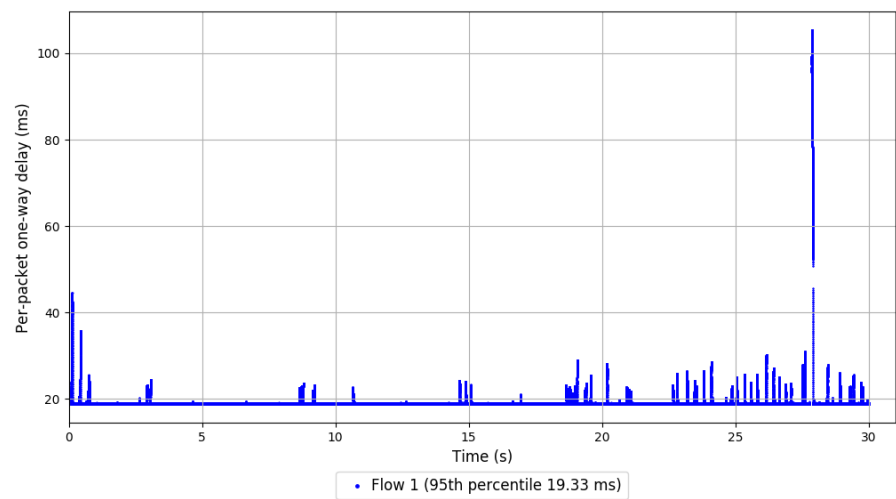
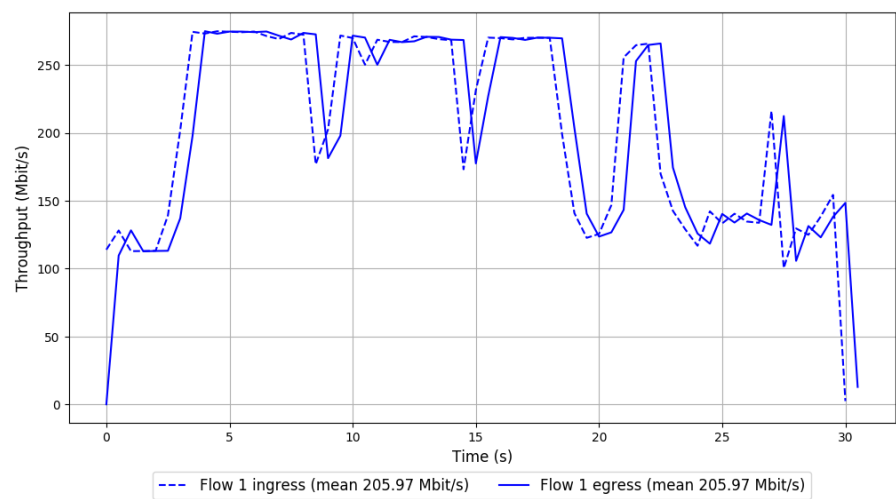
-- Flow 1:

Average throughput: 205.97 Mbit/s

95th percentile per-packet one-way delay: 19.332 ms

Loss rate: 0.00%

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

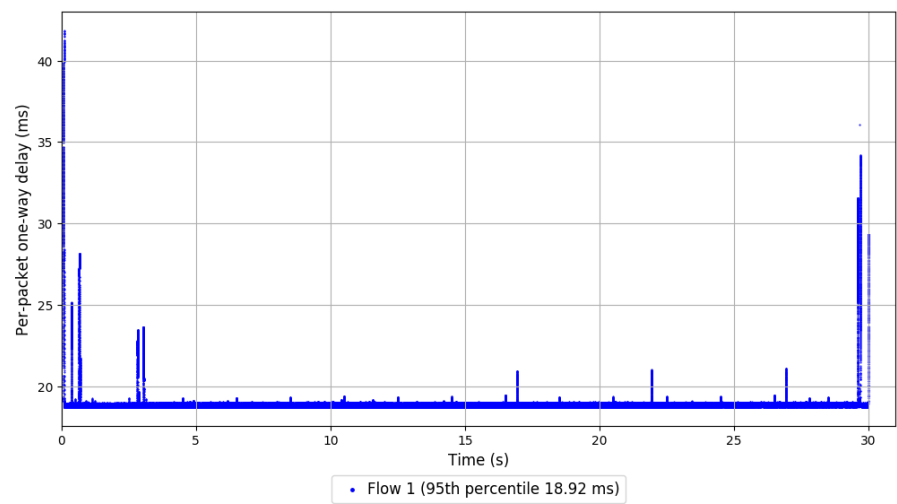
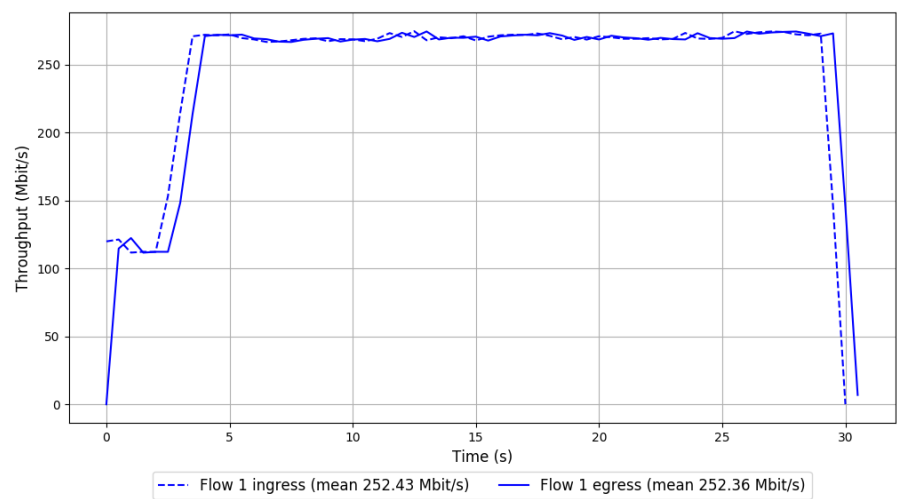


Run 7: Statistics of TaoVA-100x

Start at: 2018-05-24 05:59:00
End at: 2018-05-24 05:59:30
Local clock offset: -0.097 ms
Remote clock offset: -1.411 ms

Below is generated by plot.py at 2018-05-24 08:59:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 252.36 Mbit/s
95th percentile per-packet one-way delay: 18.919 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 252.36 Mbit/s
95th percentile per-packet one-way delay: 18.919 ms
Loss rate: 0.03%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-05-24 06:22:32

End at: 2018-05-24 06:23:02

Local clock offset: 0.022 ms

Remote clock offset: -0.047 ms

Below is generated by plot.py at 2018-05-24 09:00:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 248.30 Mbit/s

95th percentile per-packet one-way delay: 18.862 ms

Loss rate: 0.00%

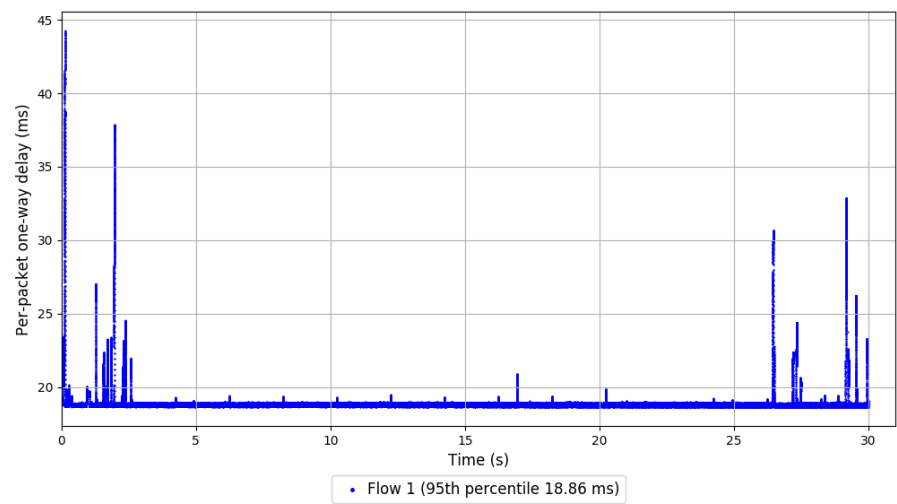
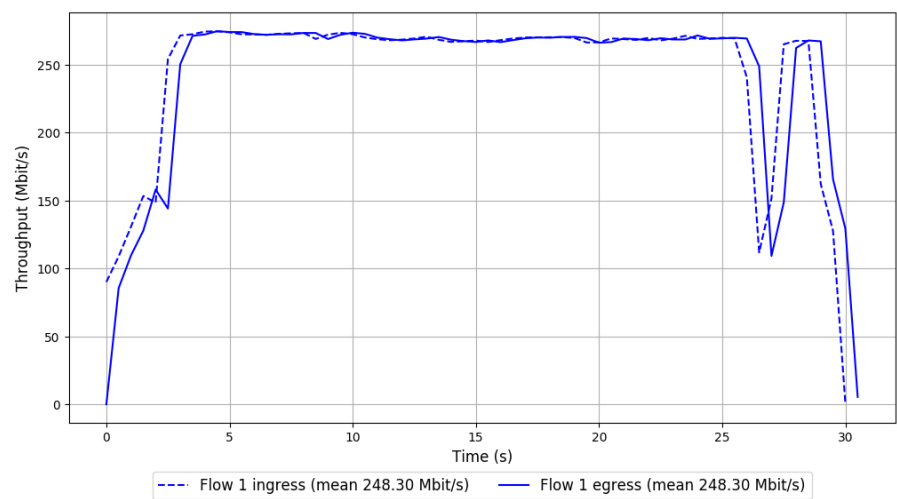
-- Flow 1:

Average throughput: 248.30 Mbit/s

95th percentile per-packet one-way delay: 18.862 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-05-24 06:46:25

End at: 2018-05-24 06:46:55

Local clock offset: 0.256 ms

Remote clock offset: -0.047 ms

Below is generated by plot.py at 2018-05-24 09:02:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.20 Mbit/s

95th percentile per-packet one-way delay: 18.814 ms

Loss rate: 0.01%

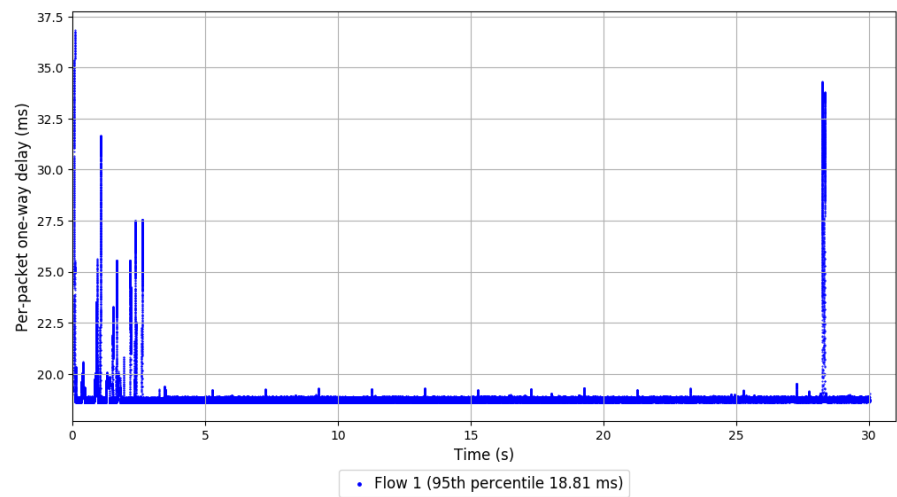
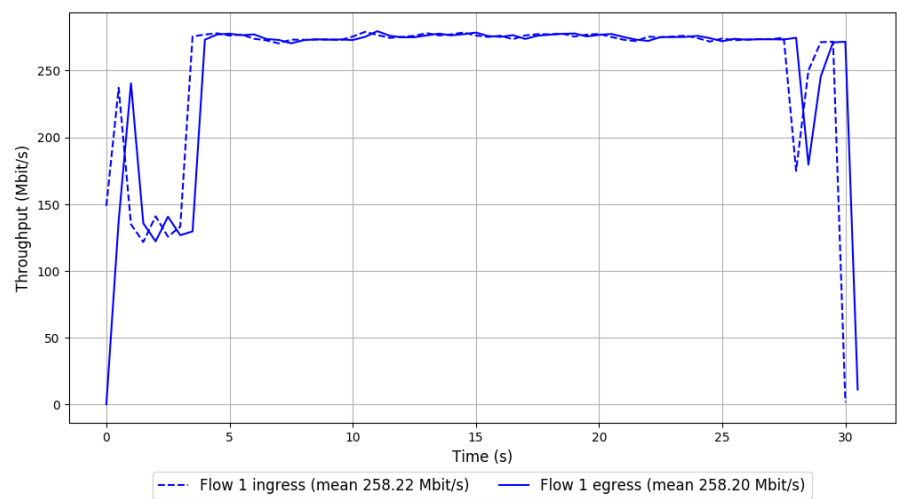
-- Flow 1:

Average throughput: 258.20 Mbit/s

95th percentile per-packet one-way delay: 18.814 ms

Loss rate: 0.01%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-05-24 07:10:26

End at: 2018-05-24 07:10:56

Local clock offset: 0.259 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-05-24 09:02:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 257.92 Mbit/s

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

Loss rate: 0.00%

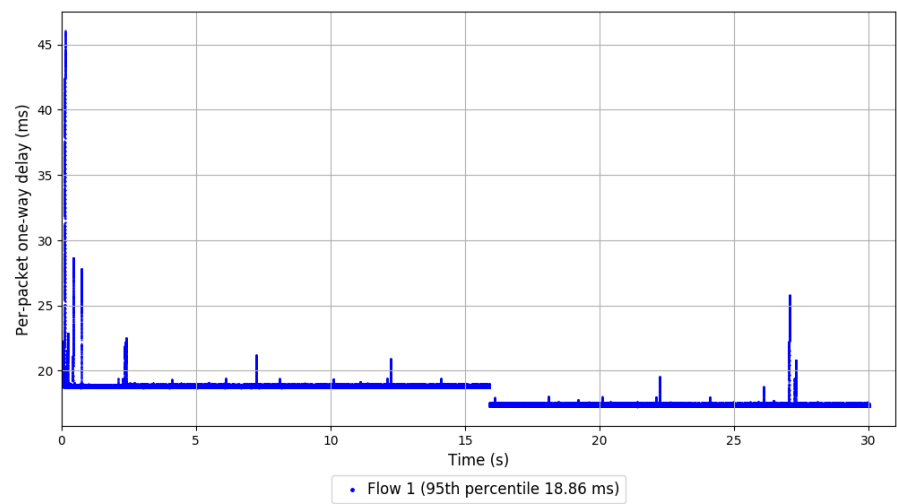
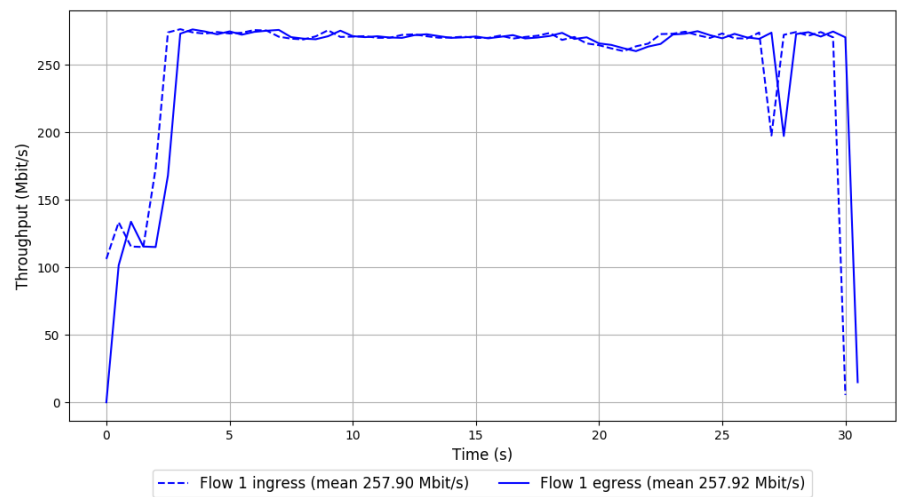
-- Flow 1:

Average throughput: 257.92 Mbit/s

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

Loss rate: 0.00%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-05-24 03:37:12

End at: 2018-05-24 03:37:42

Local clock offset: 0.116 ms

Remote clock offset: 0.347 ms

Below is generated by plot.py at 2018-05-24 09:02:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 124.24 Mbit/s

95th percentile per-packet one-way delay: 20.511 ms

Loss rate: 0.08%

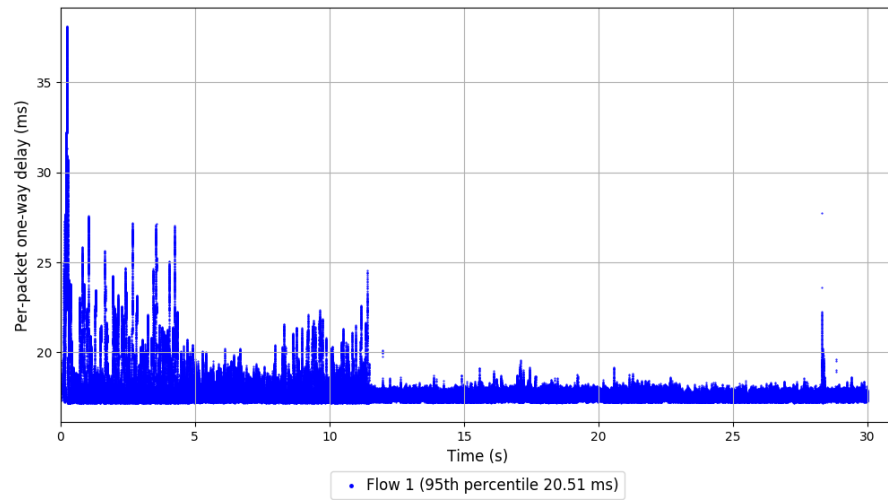
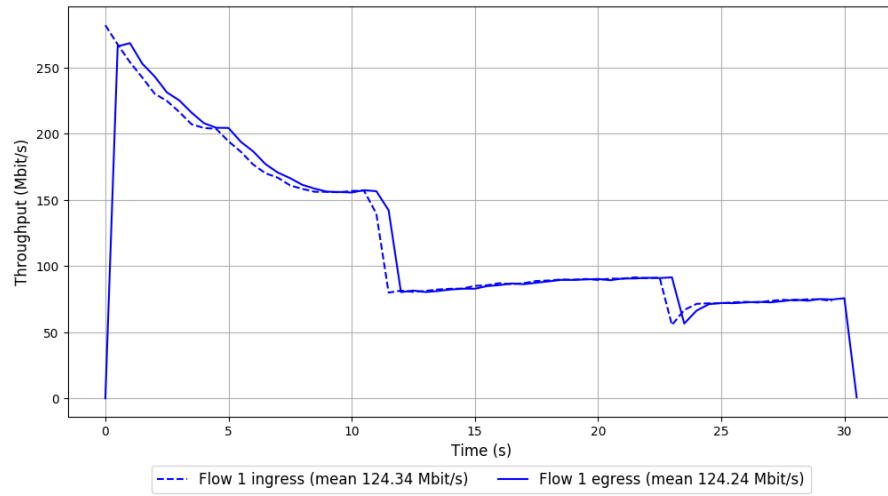
-- Flow 1:

Average throughput: 124.24 Mbit/s

95th percentile per-packet one-way delay: 20.511 ms

Loss rate: 0.08%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-05-24 04:01:20

End at: 2018-05-24 04:01:50

Local clock offset: 0.373 ms

Remote clock offset: 0.83 ms

Below is generated by plot.py at 2018-05-24 09:02:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 136.26 Mbit/s

95th percentile per-packet one-way delay: 21.463 ms

Loss rate: 0.04%

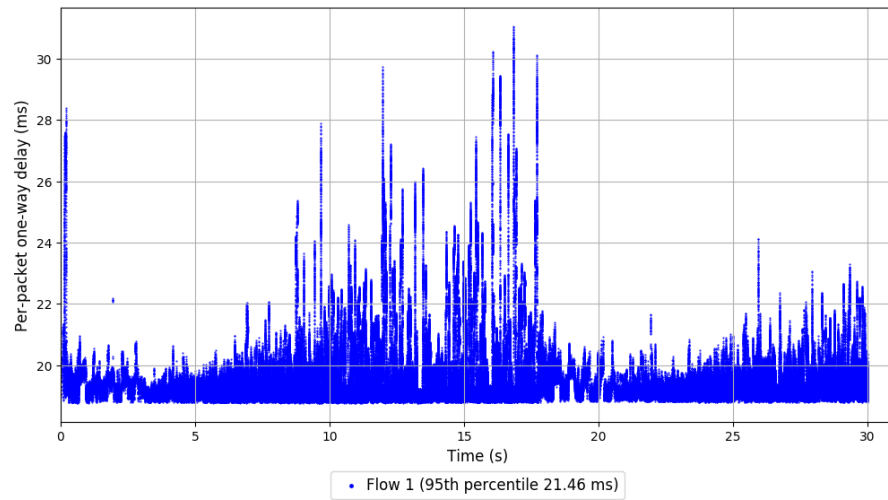
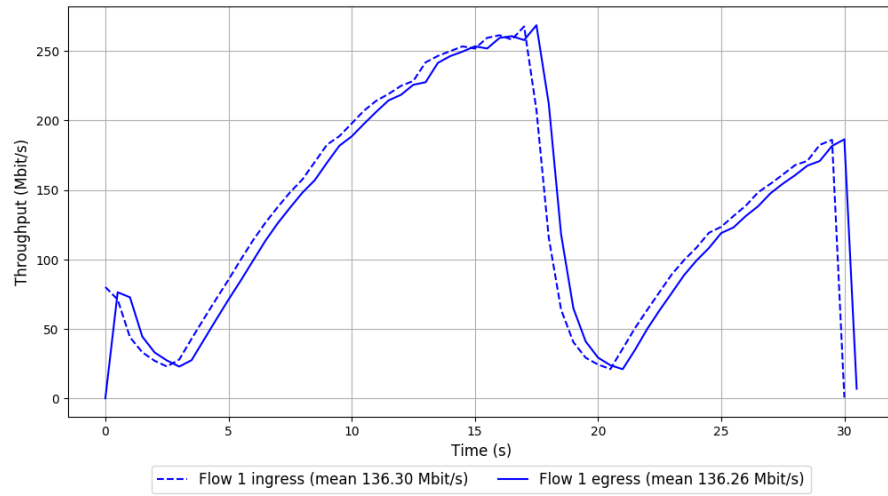
-- Flow 1:

Average throughput: 136.26 Mbit/s

95th percentile per-packet one-way delay: 21.463 ms

Loss rate: 0.04%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-05-24 04:25:14

End at: 2018-05-24 04:25:44

Local clock offset: 1.265 ms

Remote clock offset: 1.141 ms

Below is generated by plot.py at 2018-05-24 09:02:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.79 Mbit/s

95th percentile per-packet one-way delay: 19.483 ms

Loss rate: 0.11%

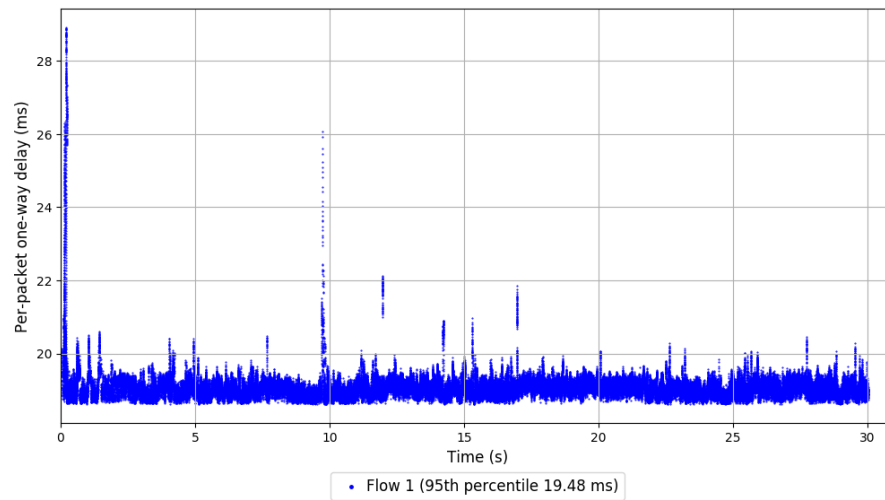
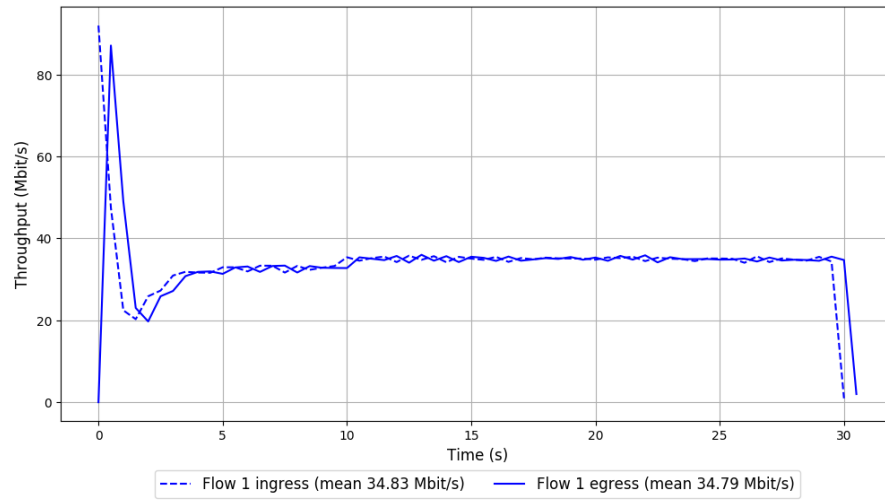
-- Flow 1:

Average throughput: 34.79 Mbit/s

95th percentile per-packet one-way delay: 19.483 ms

Loss rate: 0.11%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-05-24 04:49:02

End at: 2018-05-24 04:49:32

Local clock offset: 0.783 ms

Remote clock offset: 1.62 ms

Below is generated by plot.py at 2018-05-24 09:02:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 141.24 Mbit/s

95th percentile per-packet one-way delay: 22.801 ms

Loss rate: 0.03%

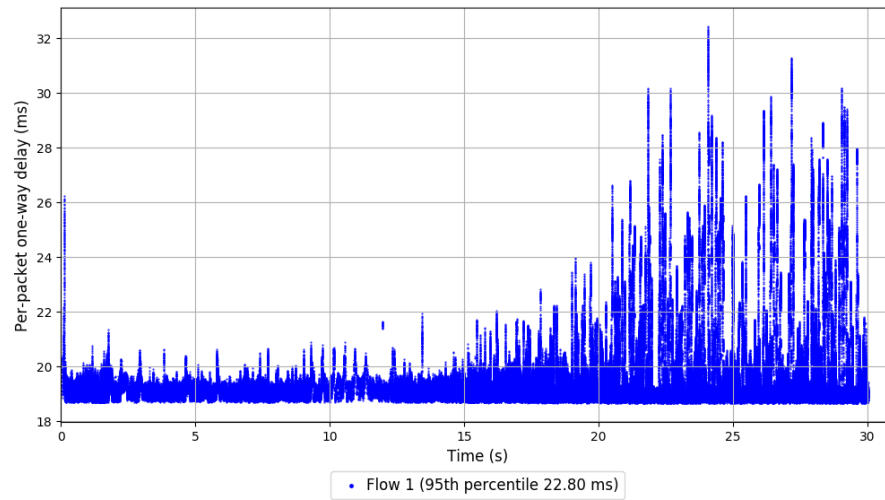
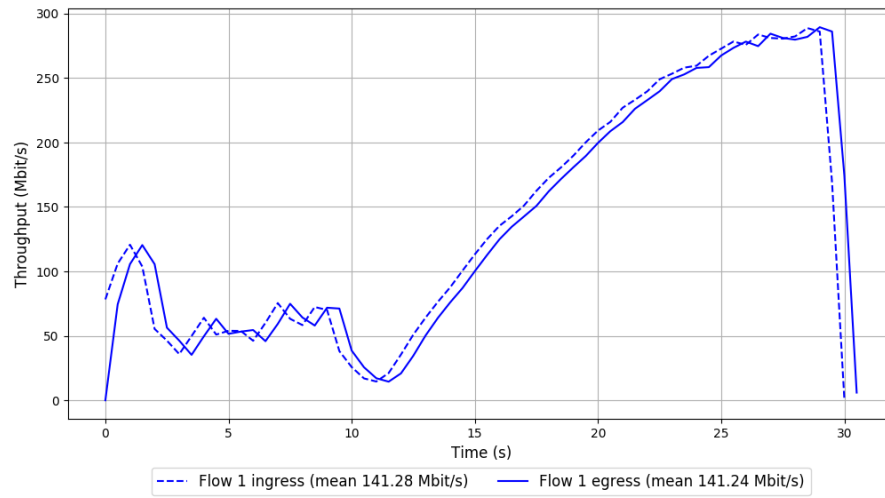
-- Flow 1:

Average throughput: 141.24 Mbit/s

95th percentile per-packet one-way delay: 22.801 ms

Loss rate: 0.03%

Run 4: Report of TCP Vegas — Data Link

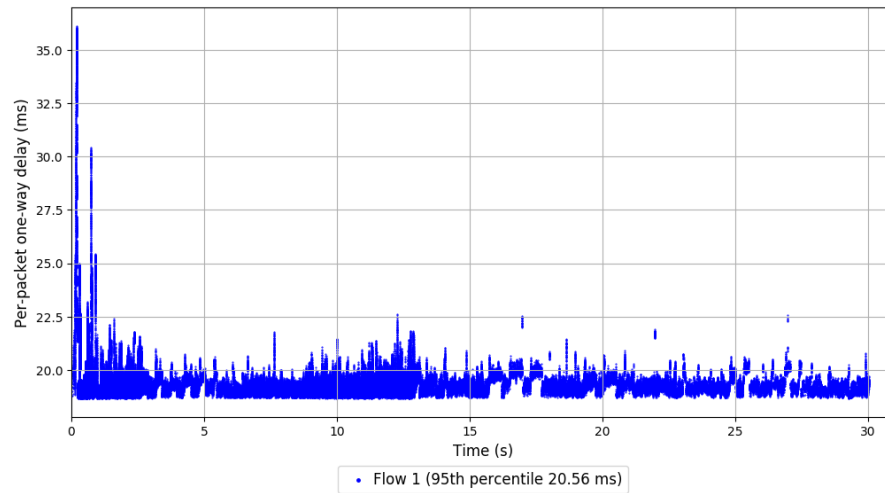
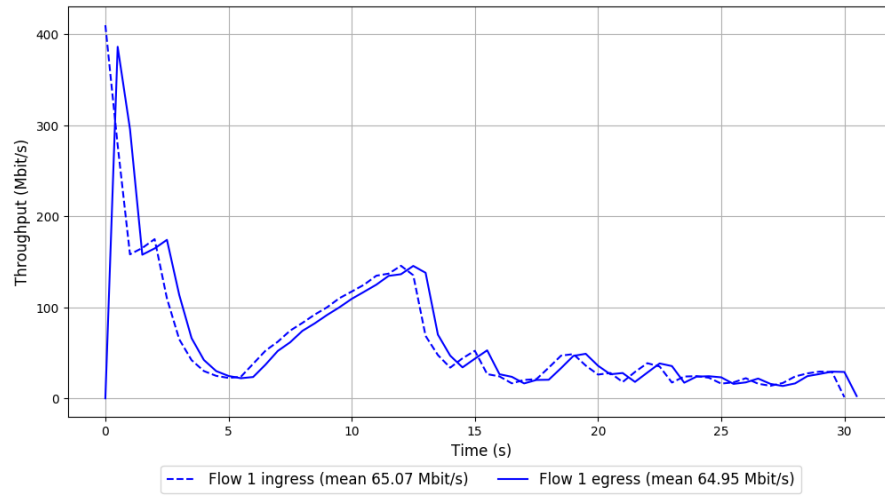


Run 5: Statistics of TCP Vegas

Start at: 2018-05-24 05:12:39
End at: 2018-05-24 05:13:09
Local clock offset: -0.14 ms
Remote clock offset: -0.471 ms

Below is generated by plot.py at 2018-05-24 09:02:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 64.95 Mbit/s
95th percentile per-packet one-way delay: 20.560 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 64.95 Mbit/s
95th percentile per-packet one-way delay: 20.560 ms
Loss rate: 0.18%

Run 5: Report of TCP Vegas — Data Link

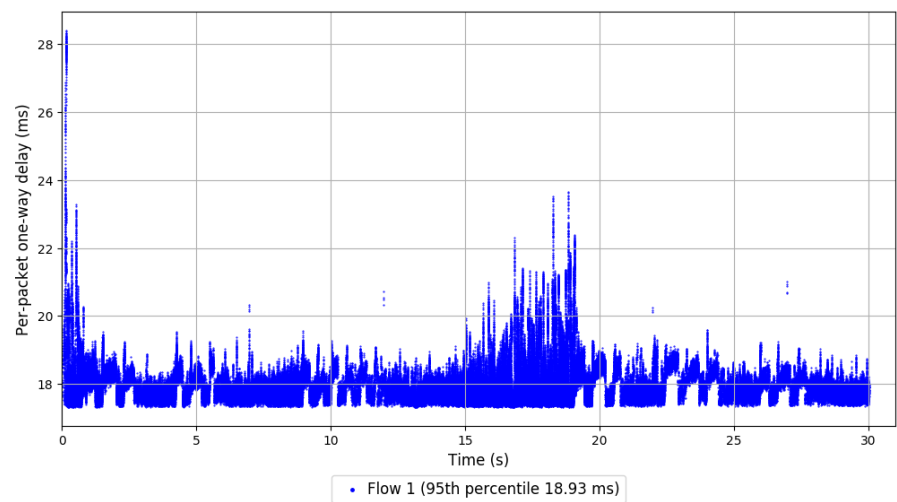
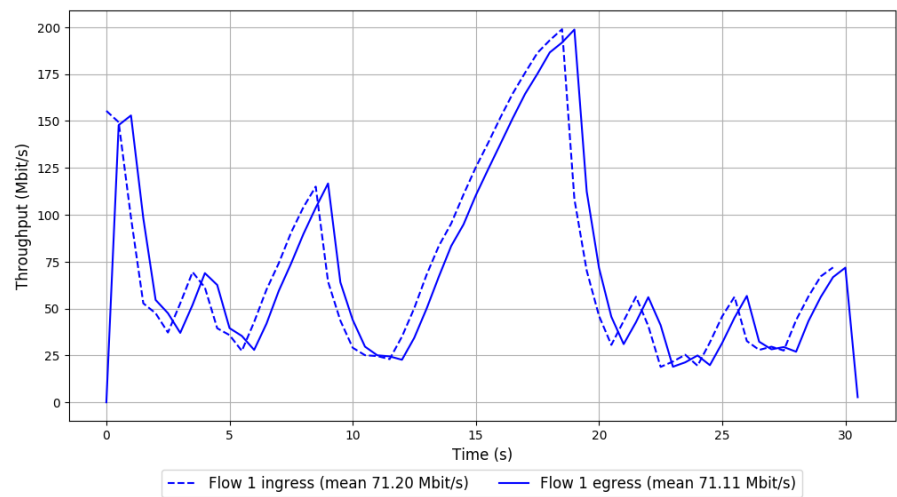


Run 6: Statistics of TCP Vegas

Start at: 2018-05-24 05:36:33
End at: 2018-05-24 05:37:03
Local clock offset: -0.125 ms
Remote clock offset: -0.978 ms

Below is generated by plot.py at 2018-05-24 09:02:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 71.11 Mbit/s
95th percentile per-packet one-way delay: 18.935 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 71.11 Mbit/s
95th percentile per-packet one-way delay: 18.935 ms
Loss rate: 0.13%

Run 6: Report of TCP Vegas — Data Link

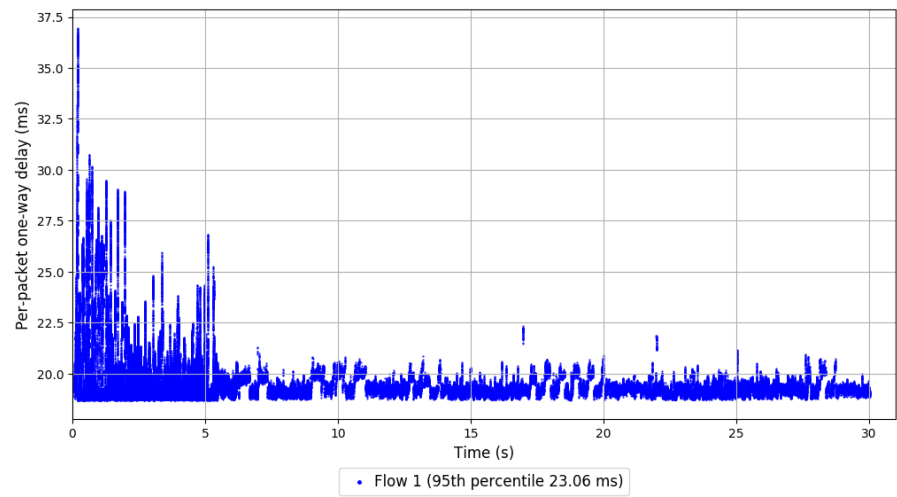
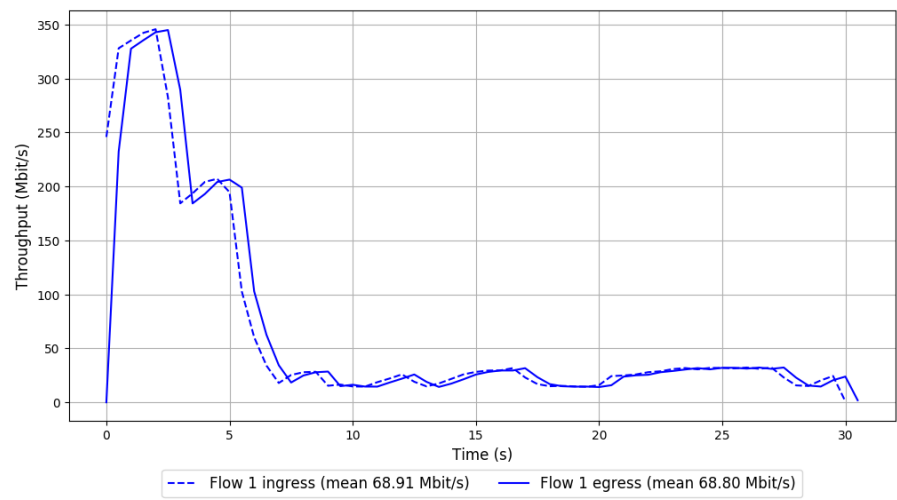


Run 7: Statistics of TCP Vegas

Start at: 2018-05-24 06:00:37
End at: 2018-05-24 06:01:07
Local clock offset: -0.099 ms
Remote clock offset: -1.487 ms

Below is generated by plot.py at 2018-05-24 09:02:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 68.80 Mbit/s
95th percentile per-packet one-way delay: 23.060 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 68.80 Mbit/s
95th percentile per-packet one-way delay: 23.060 ms
Loss rate: 0.15%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-05-24 06:24:04

End at: 2018-05-24 06:24:34

Local clock offset: -0.09 ms

Remote clock offset: 0.024 ms

Below is generated by plot.py at 2018-05-24 09:02:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.15 Mbit/s

95th percentile per-packet one-way delay: 20.082 ms

Loss rate: 0.47%

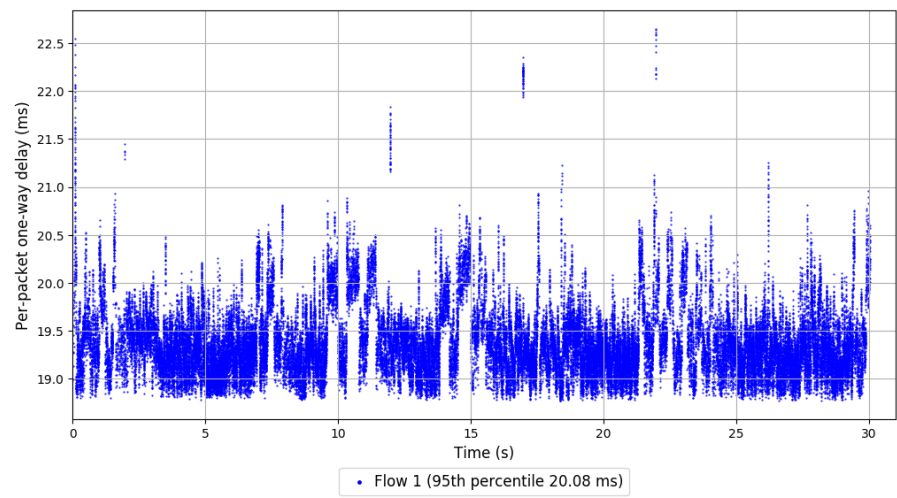
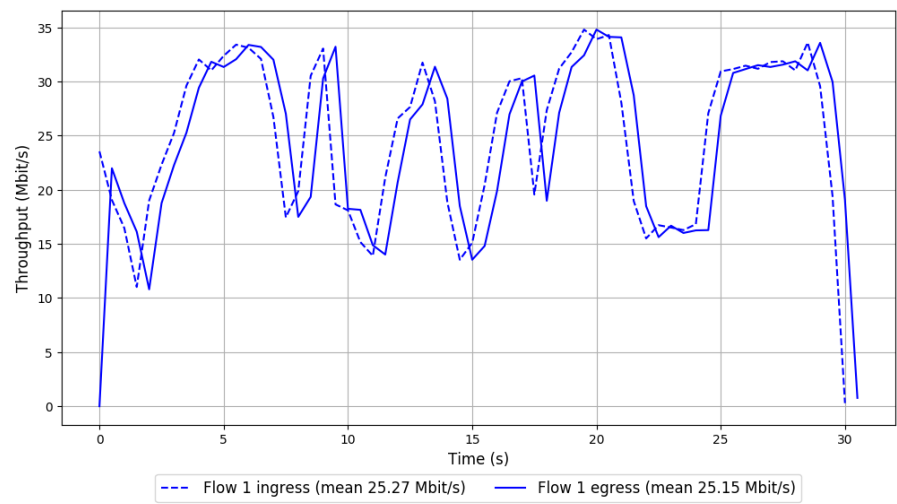
-- Flow 1:

Average throughput: 25.15 Mbit/s

95th percentile per-packet one-way delay: 20.082 ms

Loss rate: 0.47%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-05-24 06:48:02

End at: 2018-05-24 06:48:32

Local clock offset: 0.237 ms

Remote clock offset: 0.024 ms

Below is generated by plot.py at 2018-05-24 09:02:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.74 Mbit/s

95th percentile per-packet one-way delay: 21.585 ms

Loss rate: 0.08%

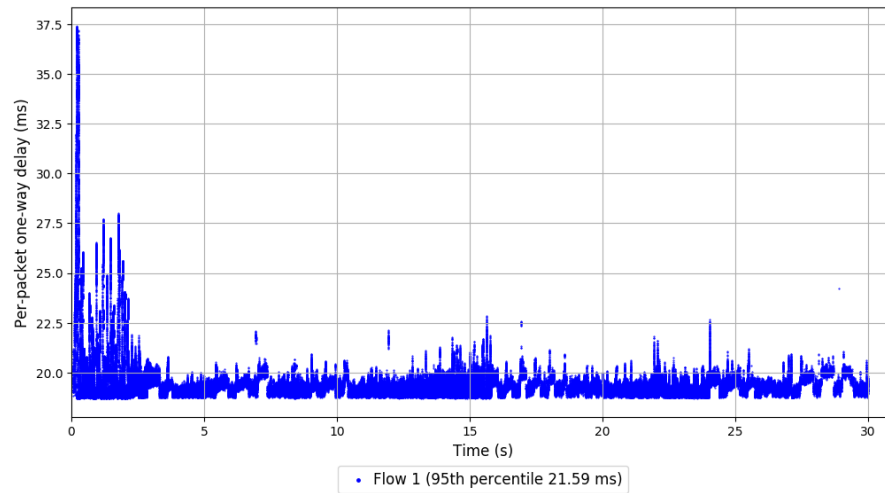
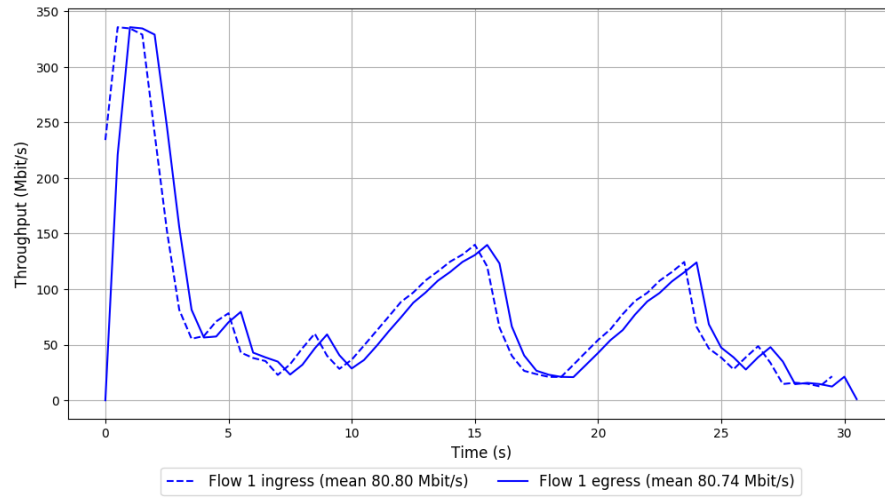
-- Flow 1:

Average throughput: 80.74 Mbit/s

95th percentile per-packet one-way delay: 21.585 ms

Loss rate: 0.08%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-05-24 07:12:01

End at: 2018-05-24 07:12:31

Local clock offset: 0.165 ms

Remote clock offset: 0.002 ms

Below is generated by plot.py at 2018-05-24 09:02:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.51 Mbit/s

95th percentile per-packet one-way delay: 24.051 ms

Loss rate: 0.14%

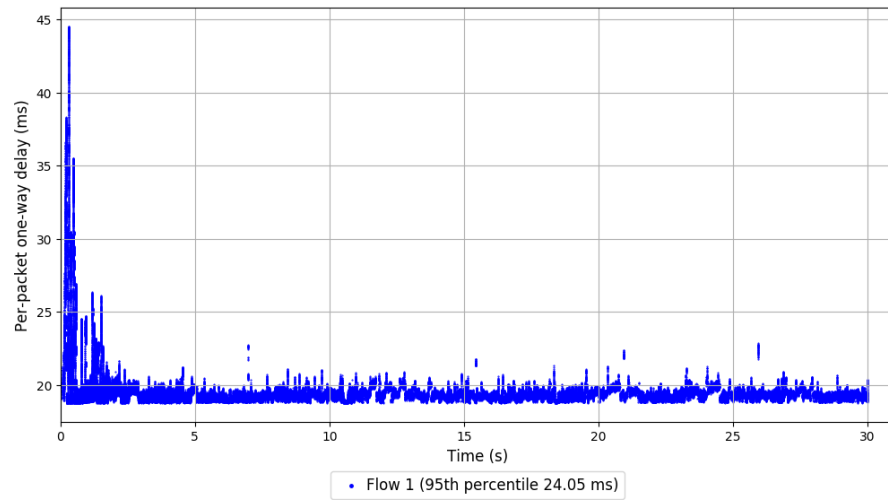
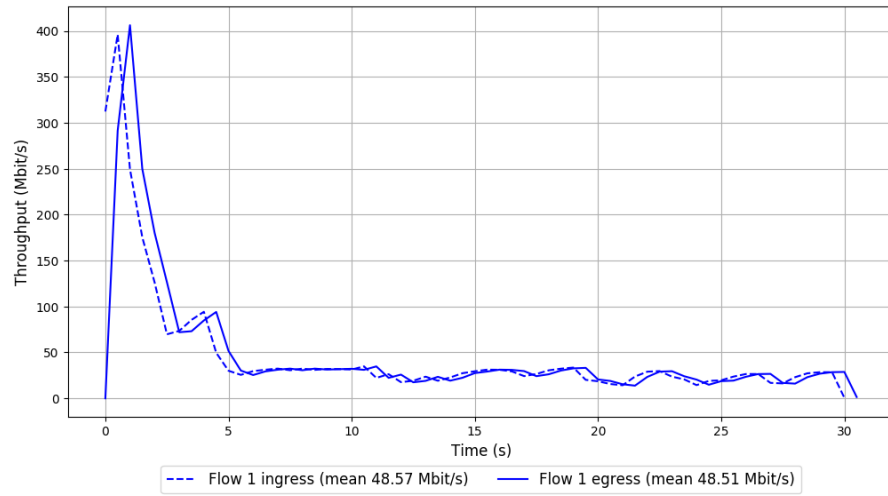
-- Flow 1:

Average throughput: 48.51 Mbit/s

95th percentile per-packet one-way delay: 24.051 ms

Loss rate: 0.14%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-05-24 03:46:29

End at: 2018-05-24 03:46:59

Local clock offset: 0.247 ms

Remote clock offset: 0.575 ms

Below is generated by plot.py at 2018-05-24 09:02:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.36 Mbit/s

95th percentile per-packet one-way delay: 47.687 ms

Loss rate: 19.92%

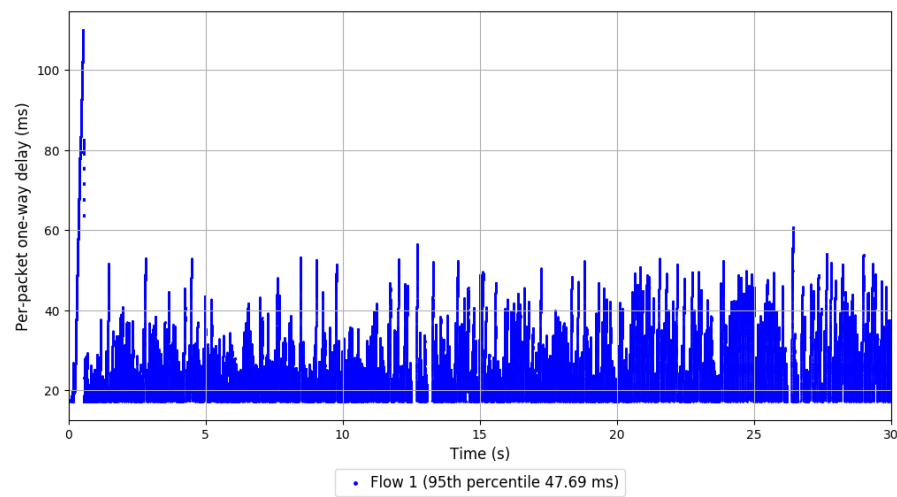
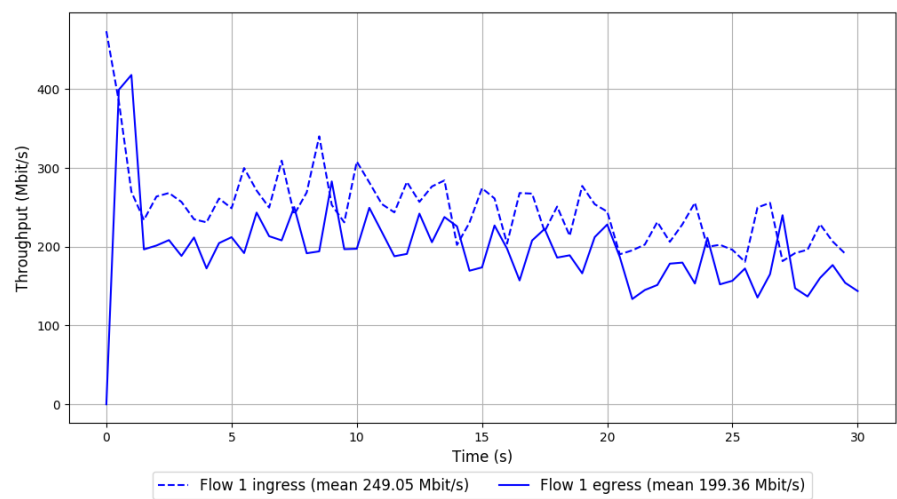
-- Flow 1:

Average throughput: 199.36 Mbit/s

95th percentile per-packet one-way delay: 47.687 ms

Loss rate: 19.92%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-05-24 04:10:32

End at: 2018-05-24 04:11:02

Local clock offset: 1.005 ms

Remote clock offset: 0.949 ms

Below is generated by plot.py at 2018-05-24 09:02:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.89 Mbit/s

95th percentile per-packet one-way delay: 59.870 ms

Loss rate: 24.96%

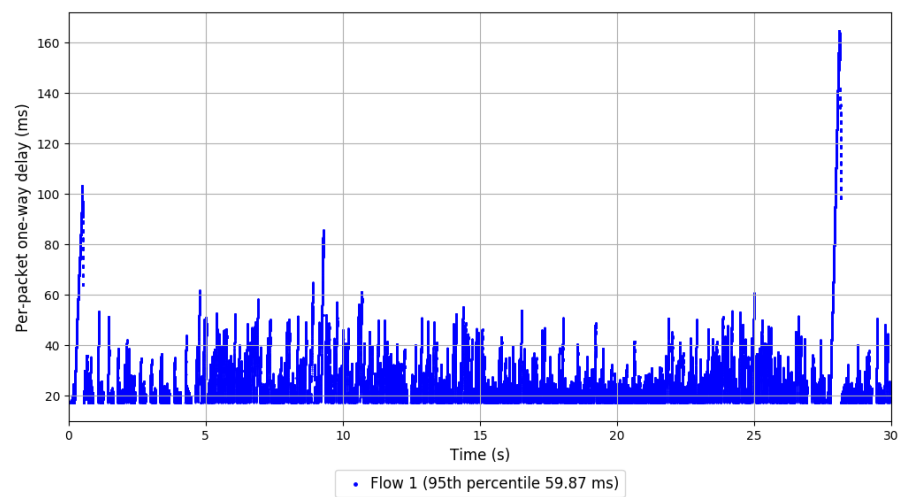
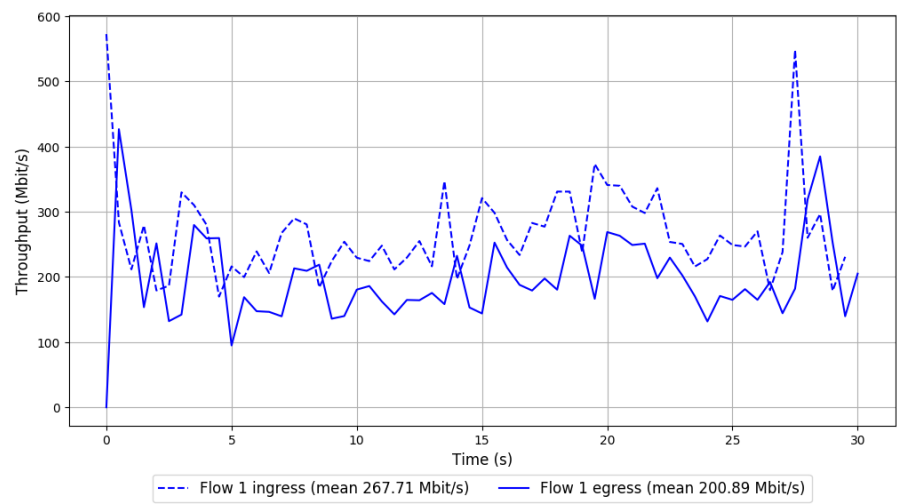
-- Flow 1:

Average throughput: 200.89 Mbit/s

95th percentile per-packet one-way delay: 59.870 ms

Loss rate: 24.96%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-05-24 04:34:23

End at: 2018-05-24 04:34:53

Local clock offset: 1.066 ms

Remote clock offset: 1.347 ms

Below is generated by plot.py at 2018-05-24 09:03:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.66 Mbit/s

95th percentile per-packet one-way delay: 44.861 ms

Loss rate: 25.48%

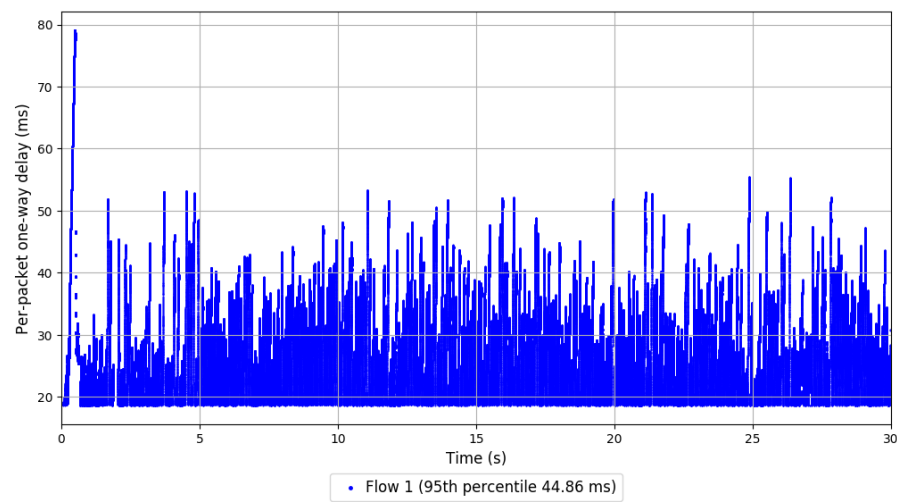
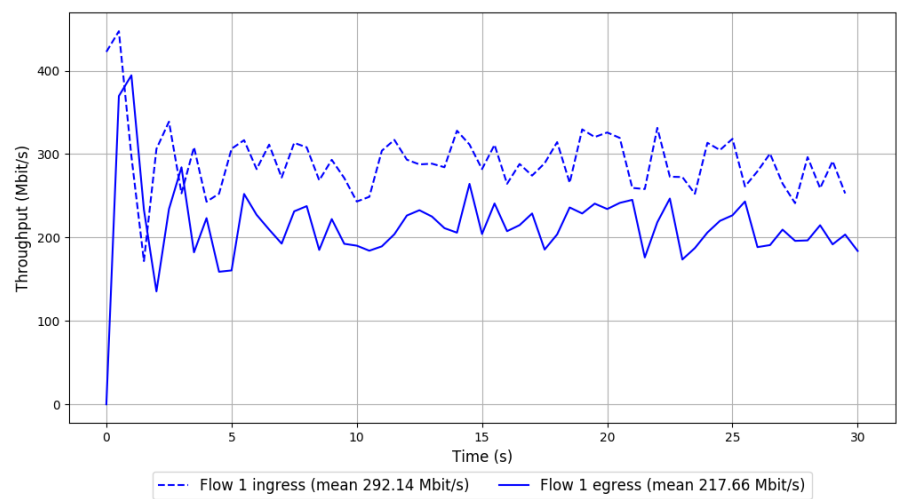
-- Flow 1:

Average throughput: 217.66 Mbit/s

95th percentile per-packet one-way delay: 44.861 ms

Loss rate: 25.48%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-05-24 04:58:15

End at: 2018-05-24 04:58:45

Local clock offset: 0.671 ms

Remote clock offset: 1.064 ms

Below is generated by plot.py at 2018-05-24 09:03:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.11 Mbit/s

95th percentile per-packet one-way delay: 49.562 ms

Loss rate: 29.04%

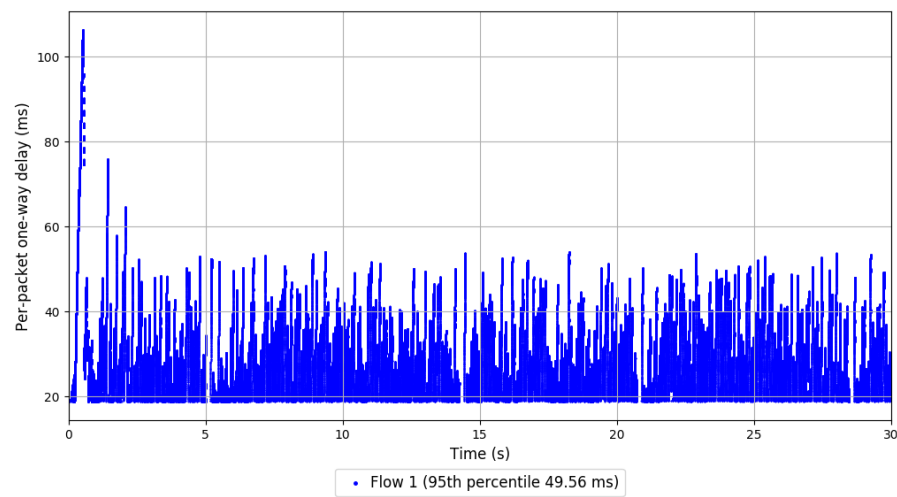
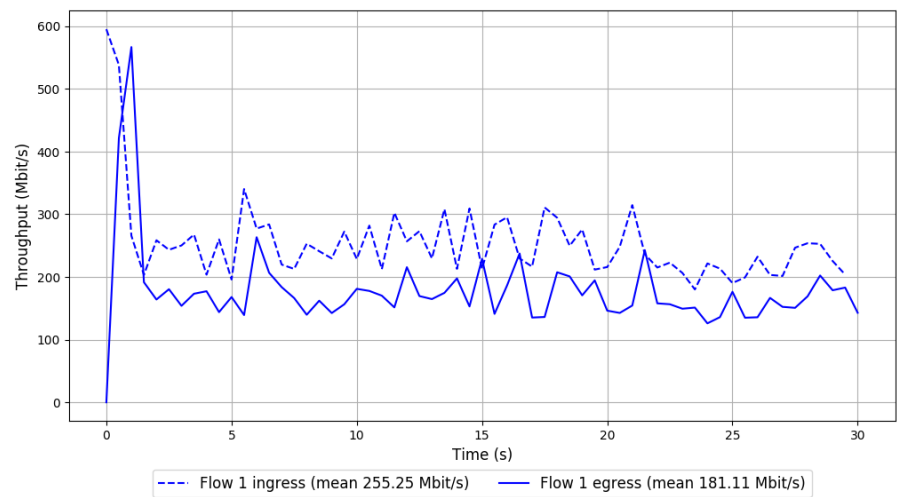
-- Flow 1:

Average throughput: 181.11 Mbit/s

95th percentile per-packet one-way delay: 49.562 ms

Loss rate: 29.04%

Run 4: Report of Verus — Data Link

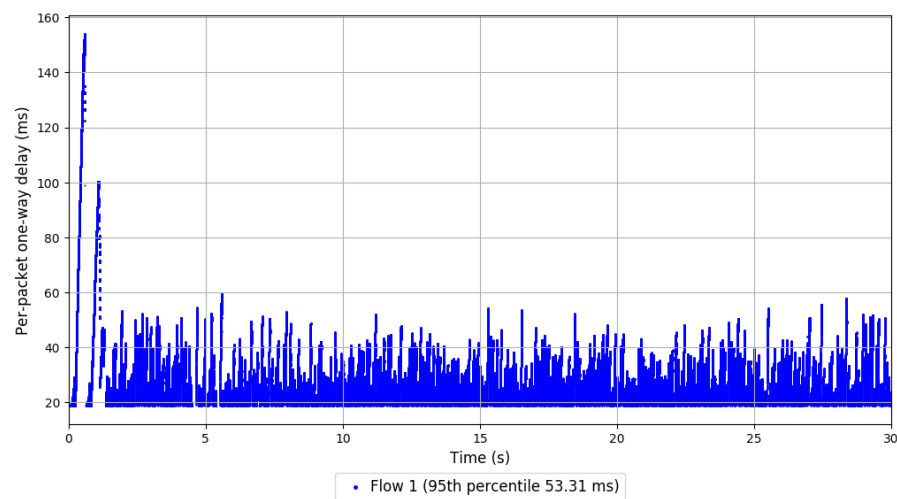
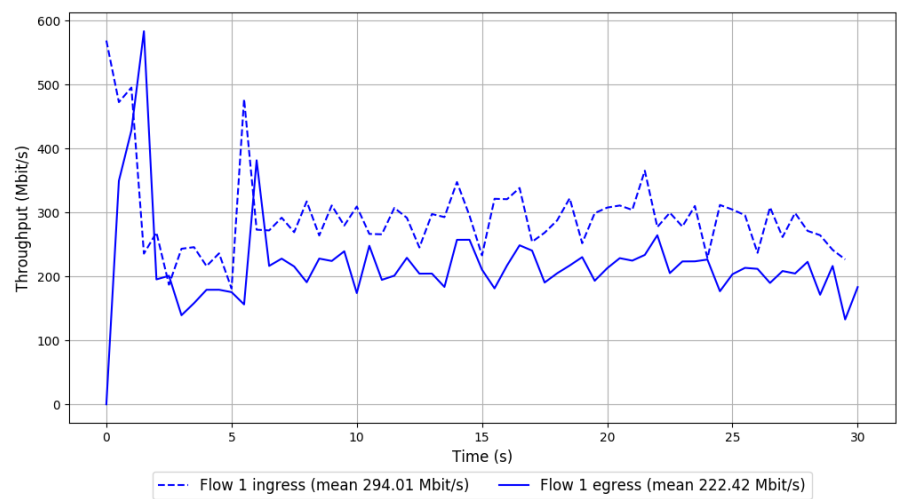


Run 5: Statistics of Verus

Start at: 2018-05-24 05:22:09
End at: 2018-05-24 05:22:39
Local clock offset: -0.37 ms
Remote clock offset: -0.695 ms

Below is generated by plot.py at 2018-05-24 09:03:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 222.42 Mbit/s
95th percentile per-packet one-way delay: 53.309 ms
Loss rate: 24.35%
-- Flow 1:
Average throughput: 222.42 Mbit/s
95th percentile per-packet one-way delay: 53.309 ms
Loss rate: 24.35%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-05-24 05:45:51

End at: 2018-05-24 05:46:21

Local clock offset: 0.0 ms

Remote clock offset: -1.2 ms

Below is generated by plot.py at 2018-05-24 09:04:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 246.18 Mbit/s

95th percentile per-packet one-way delay: 40.416 ms

Loss rate: 16.09%

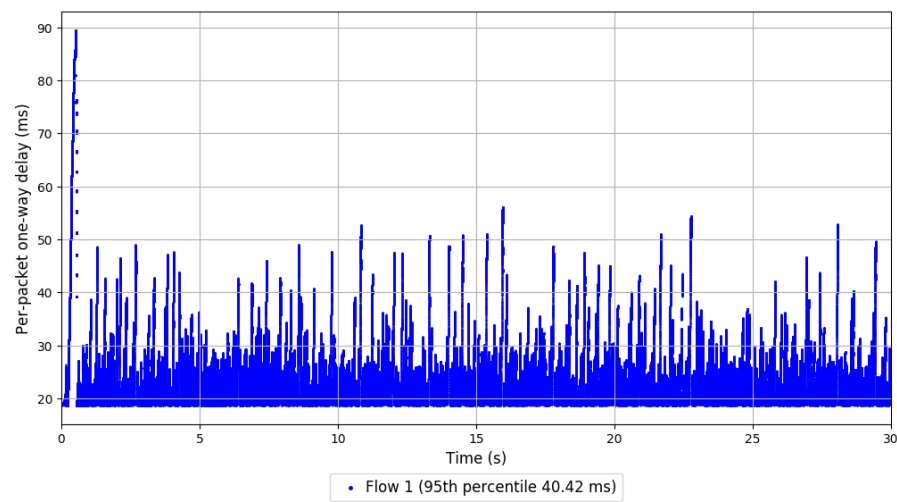
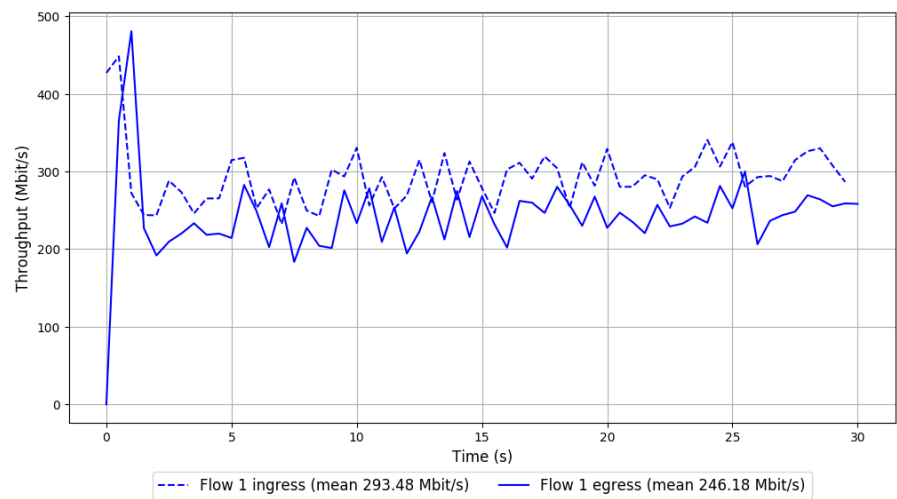
-- Flow 1:

Average throughput: 246.18 Mbit/s

95th percentile per-packet one-way delay: 40.416 ms

Loss rate: 16.09%

Run 6: Report of Verus — Data Link

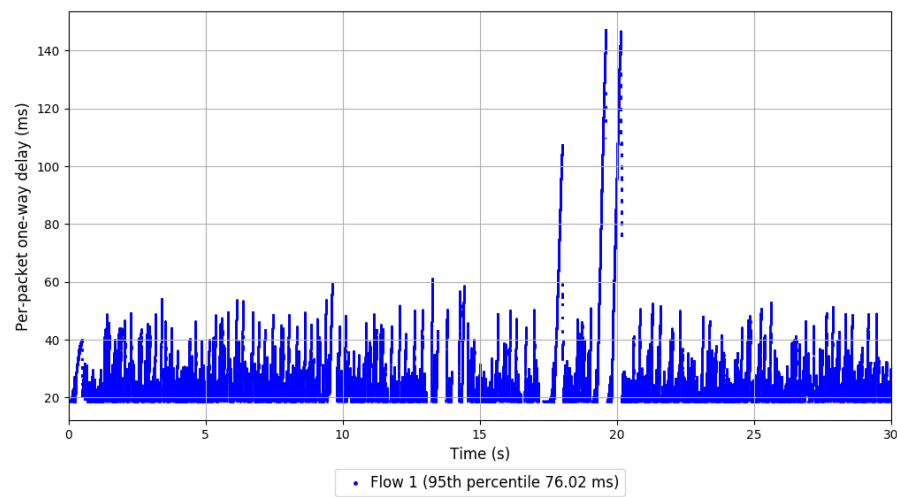
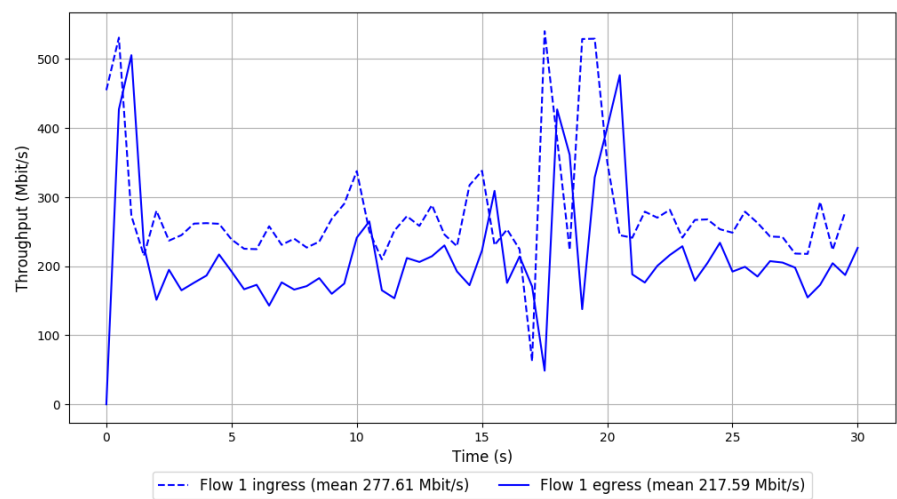


Run 7: Statistics of Verus

Start at: 2018-05-24 06:09:41
End at: 2018-05-24 06:10:11
Local clock offset: 0.028 ms
Remote clock offset: -0.783 ms

Below is generated by plot.py at 2018-05-24 09:05:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 217.59 Mbit/s
95th percentile per-packet one-way delay: 76.016 ms
Loss rate: 21.61%
-- Flow 1:
Average throughput: 217.59 Mbit/s
95th percentile per-packet one-way delay: 76.016 ms
Loss rate: 21.61%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-05-24 06:33:30

End at: 2018-05-24 06:34:00

Local clock offset: 0.01 ms

Remote clock offset: 0.211 ms

Below is generated by plot.py at 2018-05-24 09:05:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.97 Mbit/s

95th percentile per-packet one-way delay: 41.895 ms

Loss rate: 18.69%

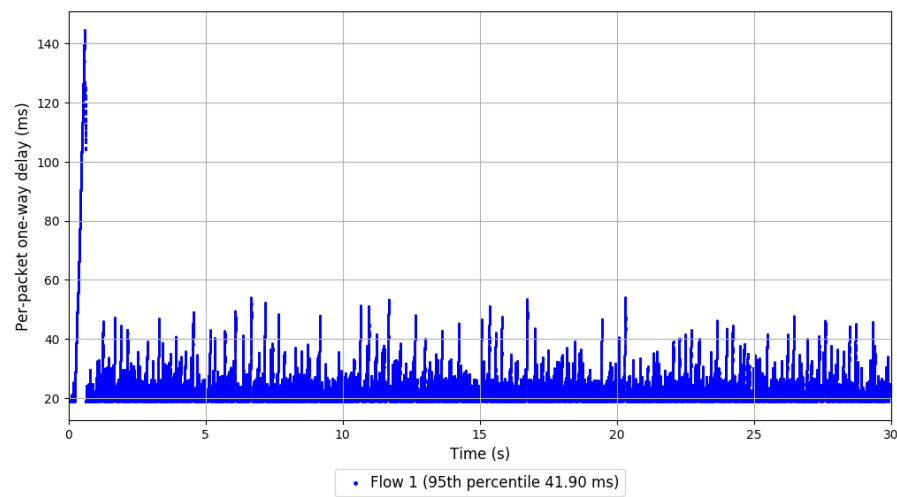
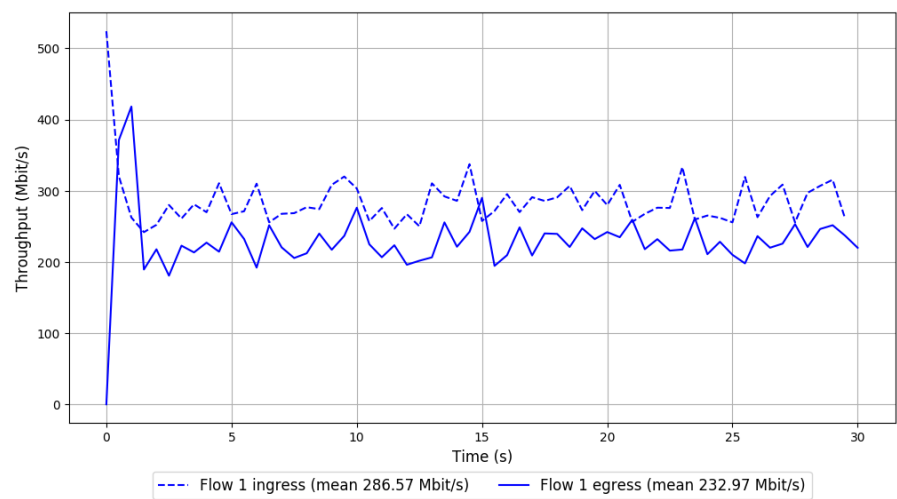
-- Flow 1:

Average throughput: 232.97 Mbit/s

95th percentile per-packet one-way delay: 41.895 ms

Loss rate: 18.69%

Run 8: Report of Verus — Data Link

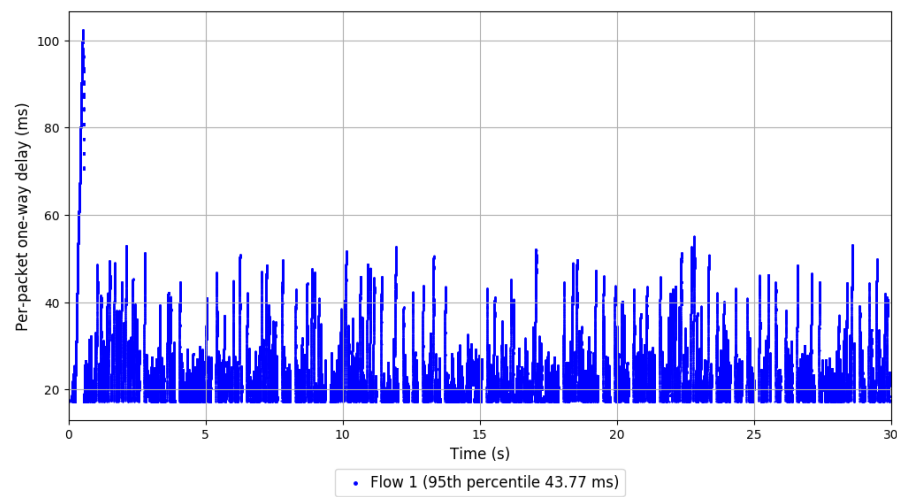
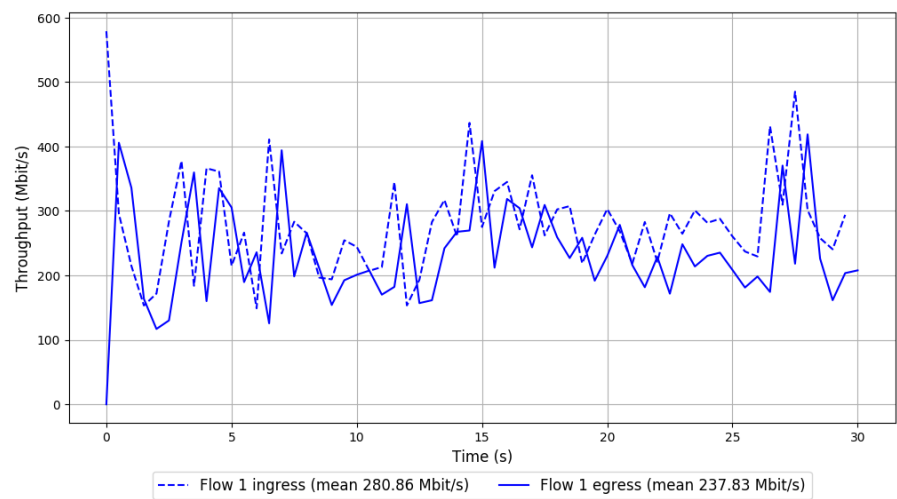


Run 9: Statistics of Verus

Start at: 2018-05-24 06:57:29
End at: 2018-05-24 06:57:59
Local clock offset: 0.25 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2018-05-24 09:05:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 237.83 Mbit/s
95th percentile per-packet one-way delay: 43.775 ms
Loss rate: 15.32%
-- Flow 1:
Average throughput: 237.83 Mbit/s
95th percentile per-packet one-way delay: 43.775 ms
Loss rate: 15.32%

Run 9: Report of Verus — Data Link

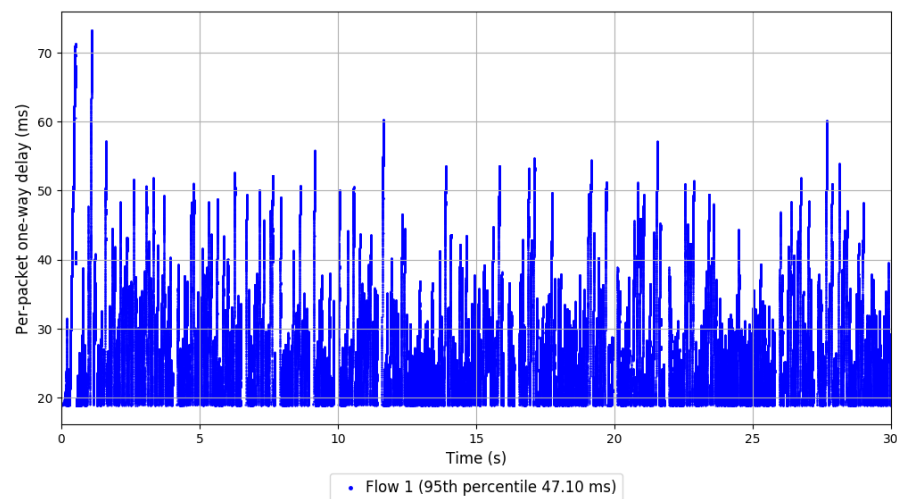
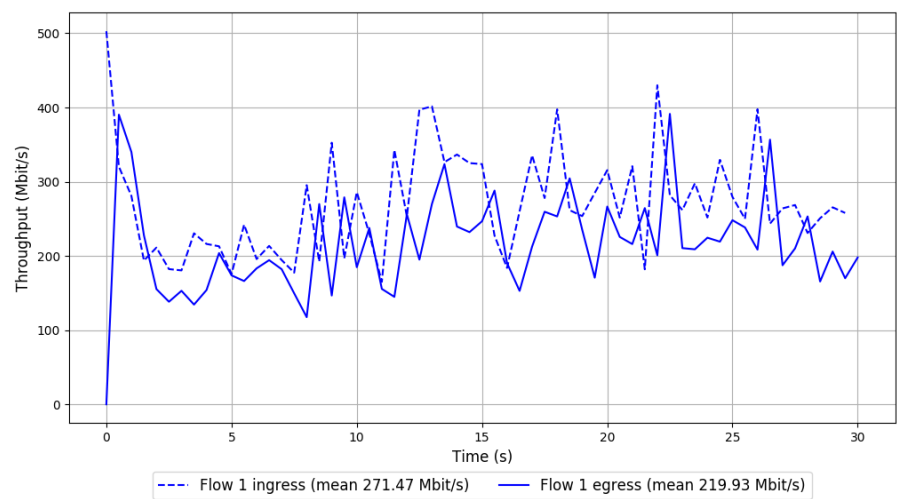


Run 10: Statistics of Verus

Start at: 2018-05-24 07:21:26
End at: 2018-05-24 07:21:56
Local clock offset: 0.174 ms
Remote clock offset: -0.045 ms

Below is generated by plot.py at 2018-05-24 09:05:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 219.93 Mbit/s
95th percentile per-packet one-way delay: 47.104 ms
Loss rate: 18.98%
-- Flow 1:
Average throughput: 219.93 Mbit/s
95th percentile per-packet one-way delay: 47.104 ms
Loss rate: 18.98%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-05-24 03:44:46

End at: 2018-05-24 03:45:16

Local clock offset: 0.26 ms

Remote clock offset: 0.598 ms

Below is generated by plot.py at 2018-05-24 09:08:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 428.77 Mbit/s

95th percentile per-packet one-way delay: 24.863 ms

Loss rate: 0.00%

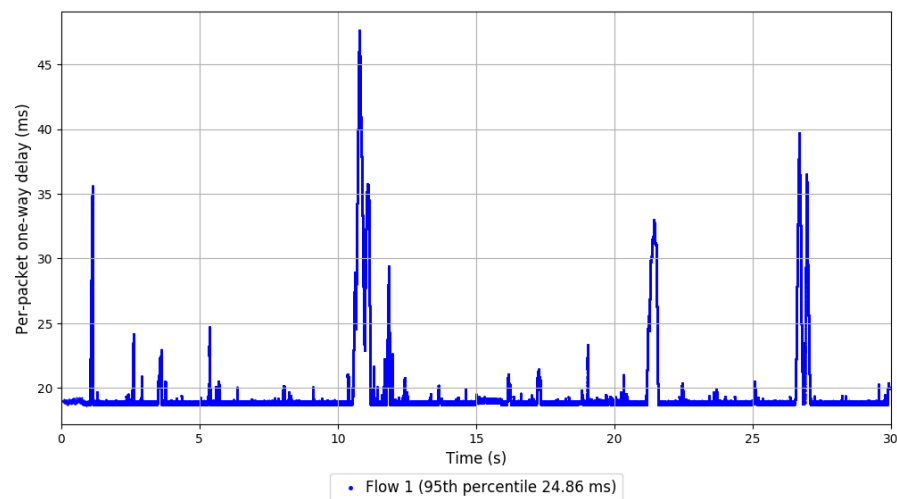
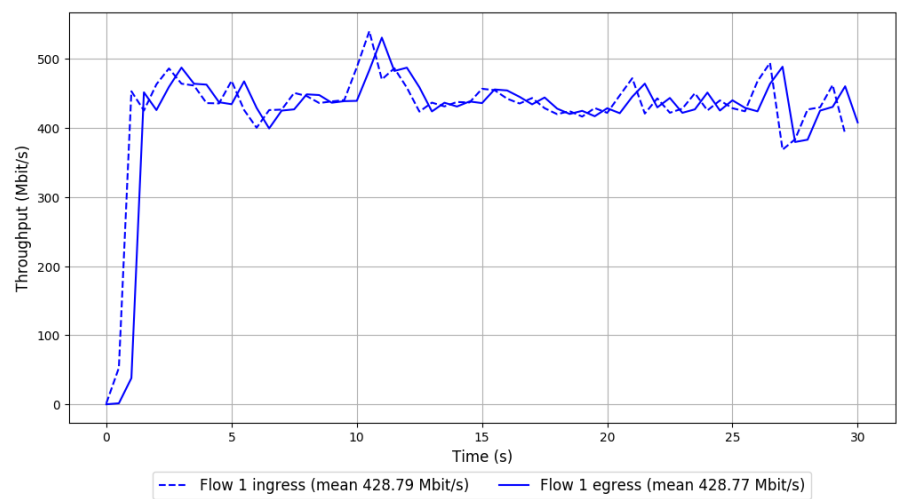
-- Flow 1:

Average throughput: 428.77 Mbit/s

95th percentile per-packet one-way delay: 24.863 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-05-24 04:08:58

End at: 2018-05-24 04:09:28

Local clock offset: 0.874 ms

Remote clock offset: 0.91 ms

Below is generated by plot.py at 2018-05-24 09:08:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 353.62 Mbit/s

95th percentile per-packet one-way delay: 19.729 ms

Loss rate: 0.01%

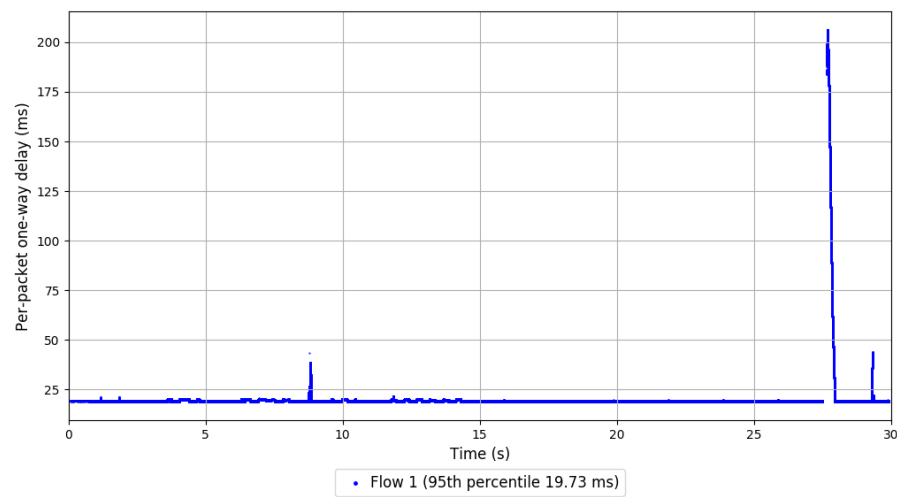
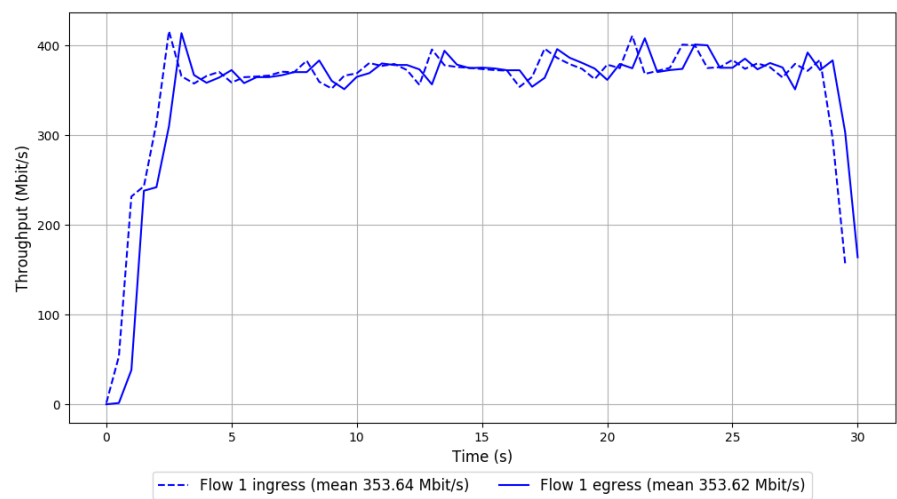
-- Flow 1:

Average throughput: 353.62 Mbit/s

95th percentile per-packet one-way delay: 19.729 ms

Loss rate: 0.01%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-05-24 04:32:47

End at: 2018-05-24 04:33:17

Local clock offset: 1.047 ms

Remote clock offset: 1.353 ms

Below is generated by plot.py at 2018-05-24 09:08:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 324.93 Mbit/s

95th percentile per-packet one-way delay: 19.596 ms

Loss rate: 0.02%

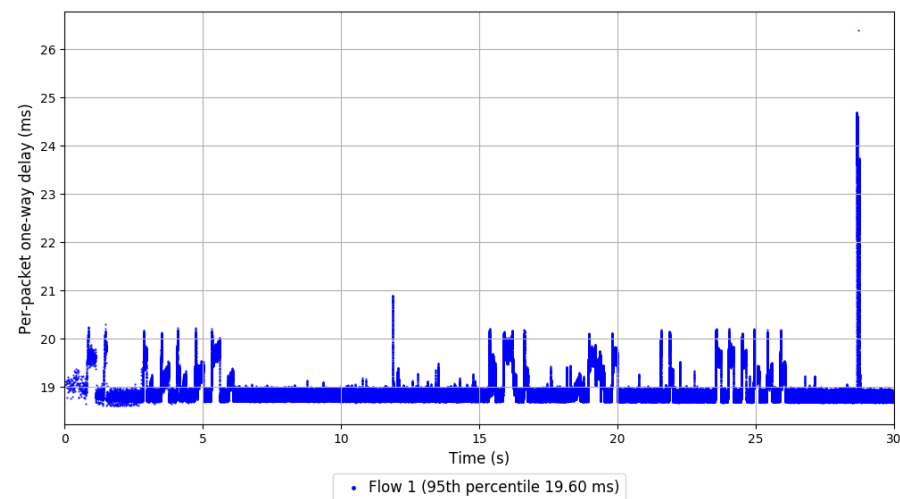
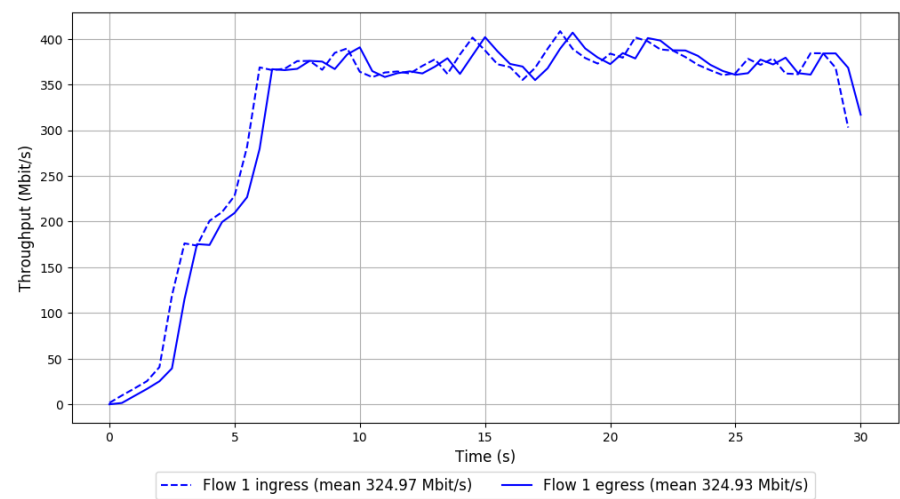
-- Flow 1:

Average throughput: 324.93 Mbit/s

95th percentile per-packet one-way delay: 19.596 ms

Loss rate: 0.02%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-05-24 04:56:39

End at: 2018-05-24 04:57:09

Local clock offset: 0.572 ms

Remote clock offset: 1.407 ms

Below is generated by plot.py at 2018-05-24 09:10:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 412.89 Mbit/s

95th percentile per-packet one-way delay: 20.158 ms

Loss rate: 0.03%

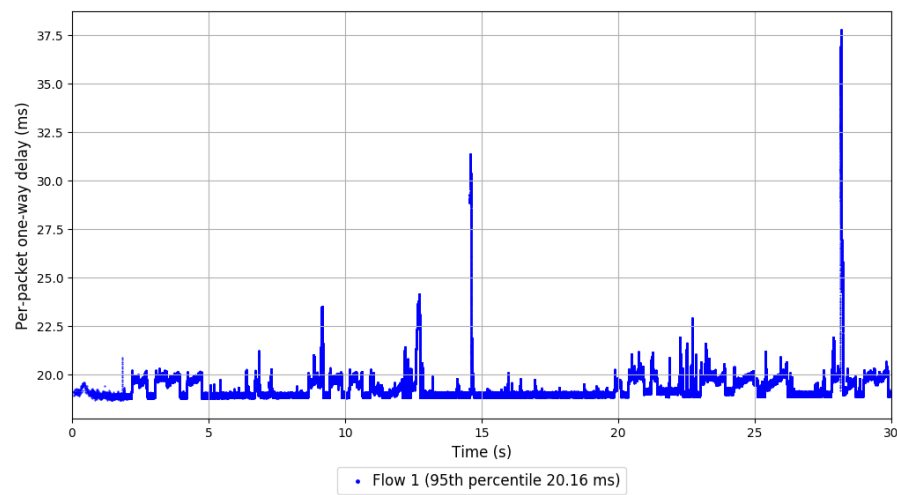
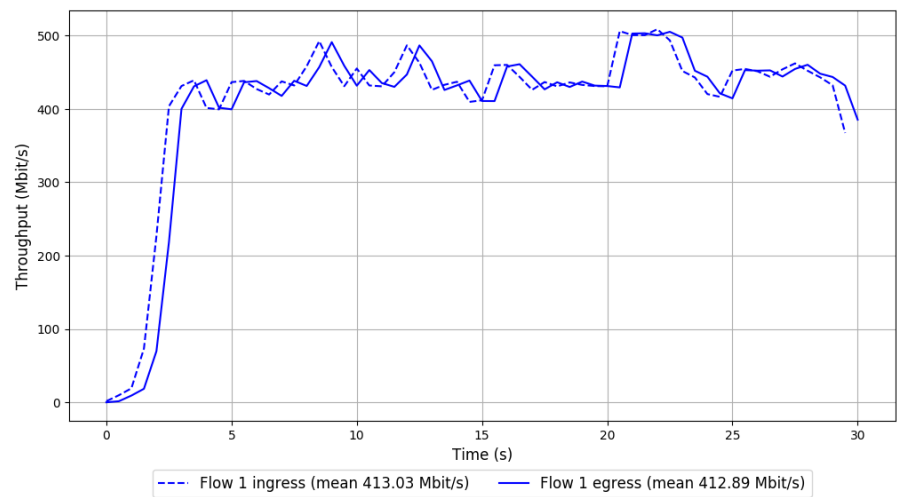
-- Flow 1:

Average throughput: 412.89 Mbit/s

95th percentile per-packet one-way delay: 20.158 ms

Loss rate: 0.03%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-05-24 05:20:27

End at: 2018-05-24 05:20:57

Local clock offset: -0.261 ms

Remote clock offset: -0.7 ms

Below is generated by plot.py at 2018-05-24 09:10:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 434.04 Mbit/s

95th percentile per-packet one-way delay: 20.975 ms

Loss rate: 0.01%

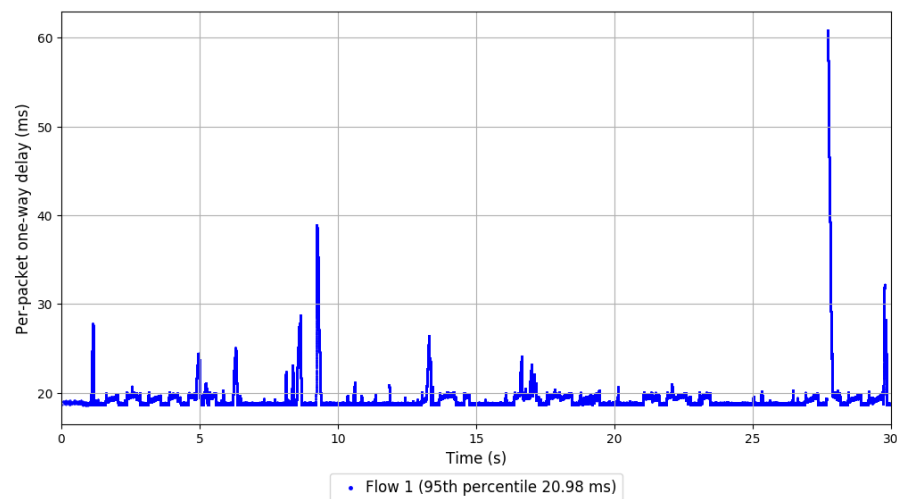
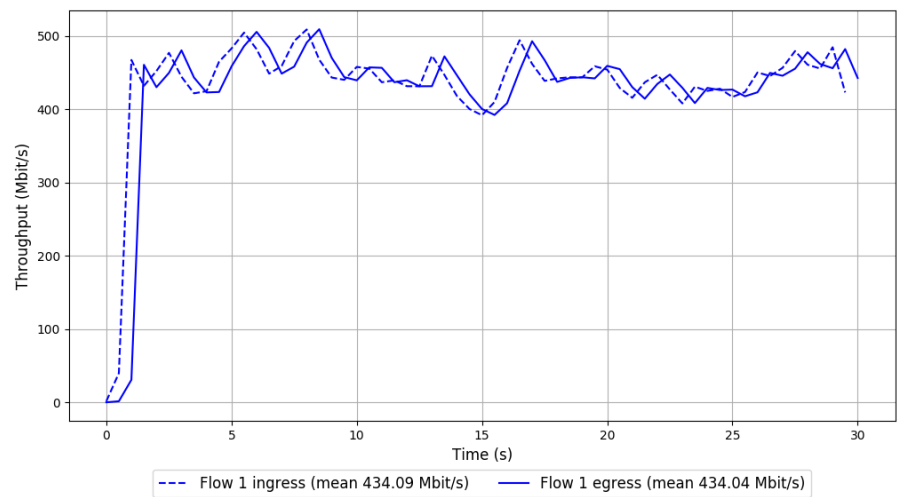
-- Flow 1:

Average throughput: 434.04 Mbit/s

95th percentile per-packet one-way delay: 20.975 ms

Loss rate: 0.01%

Run 5: Report of PCC-Vivace — Data Link

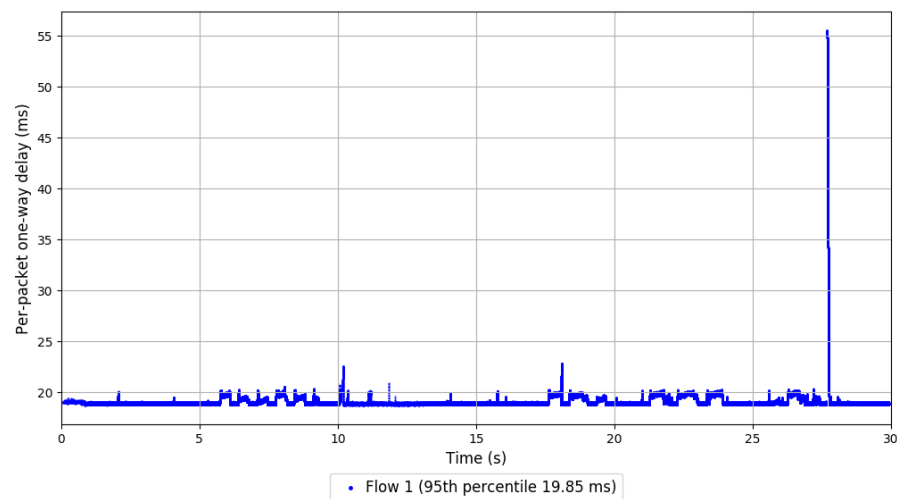
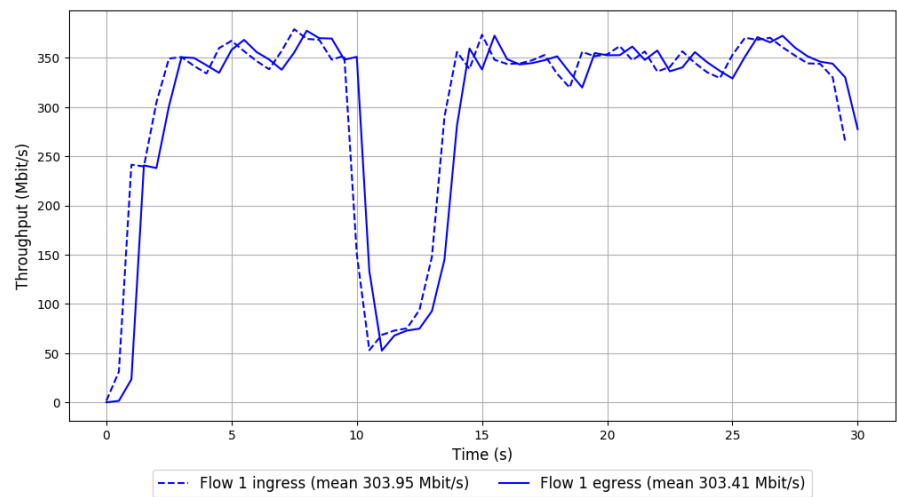


Run 6: Statistics of PCC-Vivace

Start at: 2018-05-24 05:44:16
End at: 2018-05-24 05:44:46
Local clock offset: -0.105 ms
Remote clock offset: -1.151 ms

Below is generated by plot.py at 2018-05-24 09:10:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 303.41 Mbit/s
95th percentile per-packet one-way delay: 19.854 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 303.41 Mbit/s
95th percentile per-packet one-way delay: 19.854 ms
Loss rate: 0.18%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-05-24 06:08:07

End at: 2018-05-24 06:08:37

Local clock offset: 0.021 ms

Remote clock offset: -0.832 ms

Below is generated by plot.py at 2018-05-24 09:10:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 366.13 Mbit/s

95th percentile per-packet one-way delay: 18.275 ms

Loss rate: 0.01%

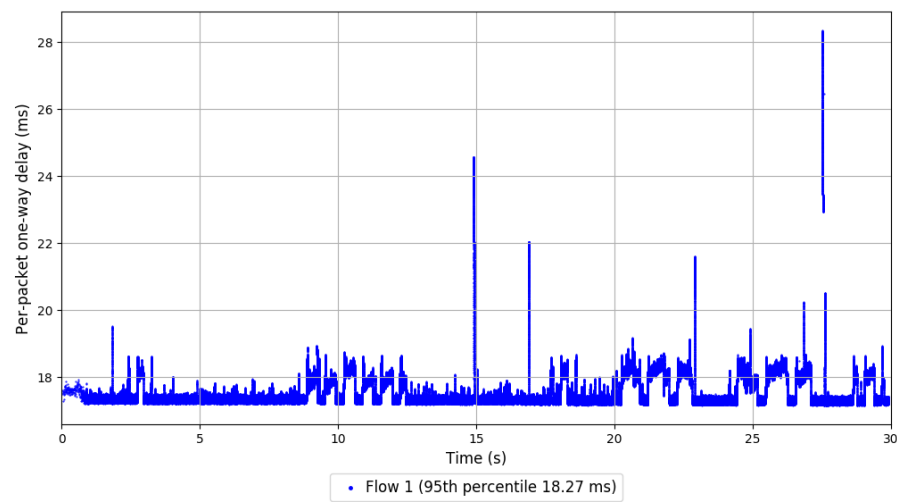
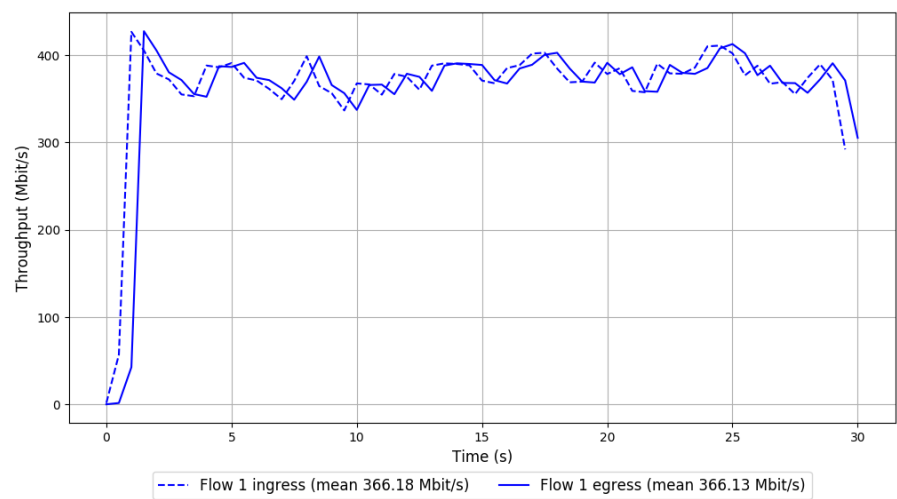
-- Flow 1:

Average throughput: 366.13 Mbit/s

95th percentile per-packet one-way delay: 18.275 ms

Loss rate: 0.01%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-05-24 06:31:54

End at: 2018-05-24 06:32:24

Local clock offset: 0.07 ms

Remote clock offset: 0.178 ms

Below is generated by plot.py at 2018-05-24 09:10:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 427.67 Mbit/s

95th percentile per-packet one-way delay: 18.831 ms

Loss rate: 0.01%

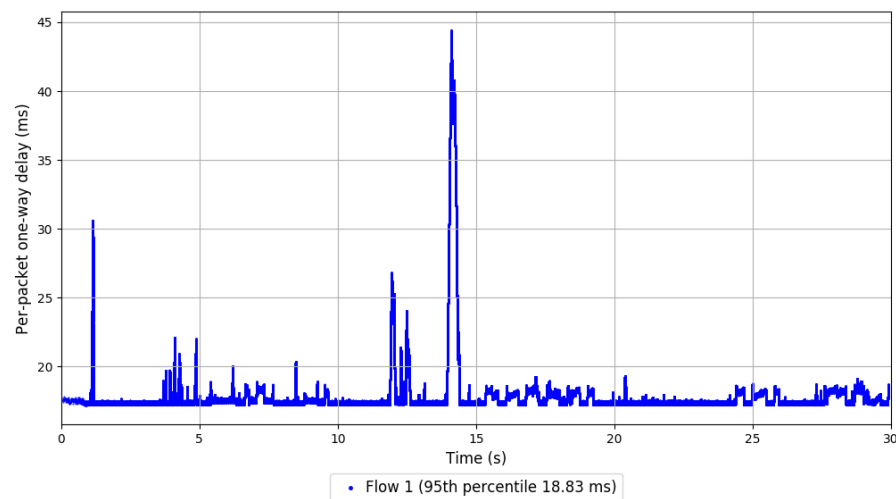
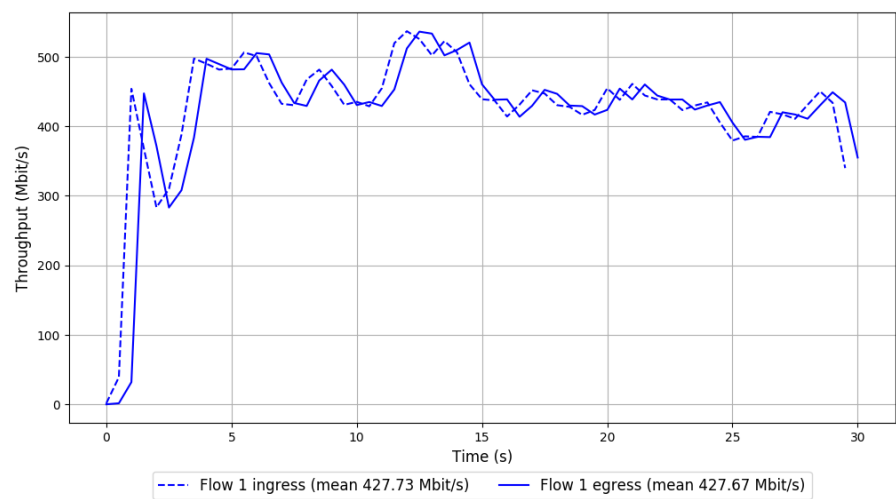
-- Flow 1:

Average throughput: 427.67 Mbit/s

95th percentile per-packet one-way delay: 18.831 ms

Loss rate: 0.01%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-05-24 06:55:47

End at: 2018-05-24 06:56:17

Local clock offset: 0.168 ms

Remote clock offset: 0.017 ms

Below is generated by plot.py at 2018-05-24 09:11:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 447.25 Mbit/s

95th percentile per-packet one-way delay: 21.833 ms

Loss rate: 0.01%

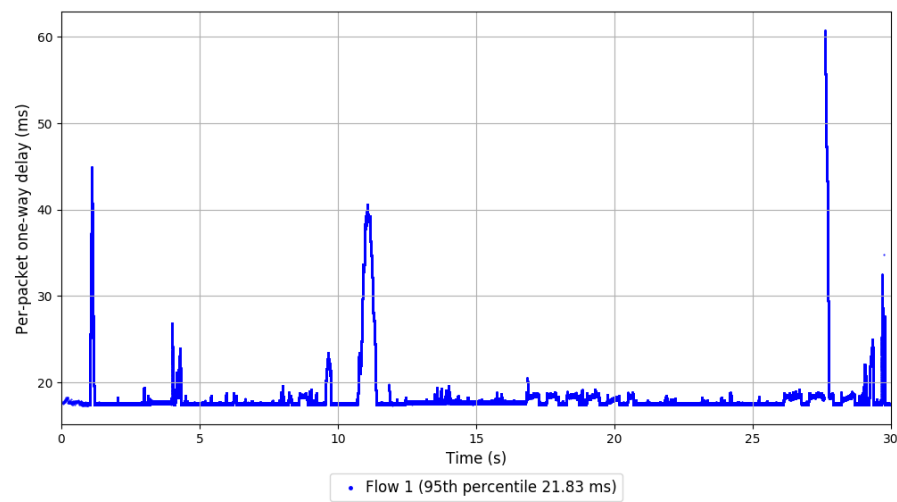
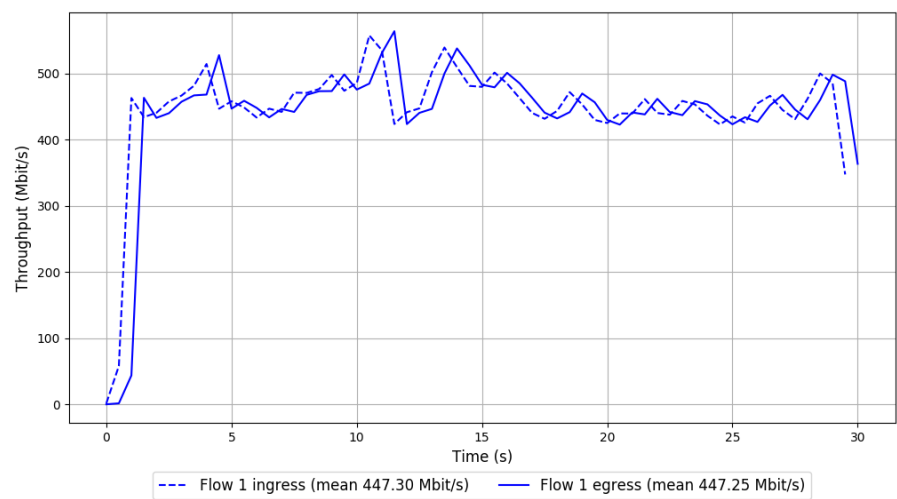
-- Flow 1:

Average throughput: 447.25 Mbit/s

95th percentile per-packet one-way delay: 21.833 ms

Loss rate: 0.01%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-05-24 07:19:48

End at: 2018-05-24 07:20:18

Local clock offset: 0.171 ms

Remote clock offset: -0.06 ms

Below is generated by plot.py at 2018-05-24 09:11:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 461.78 Mbit/s

95th percentile per-packet one-way delay: 20.151 ms

Loss rate: 0.06%

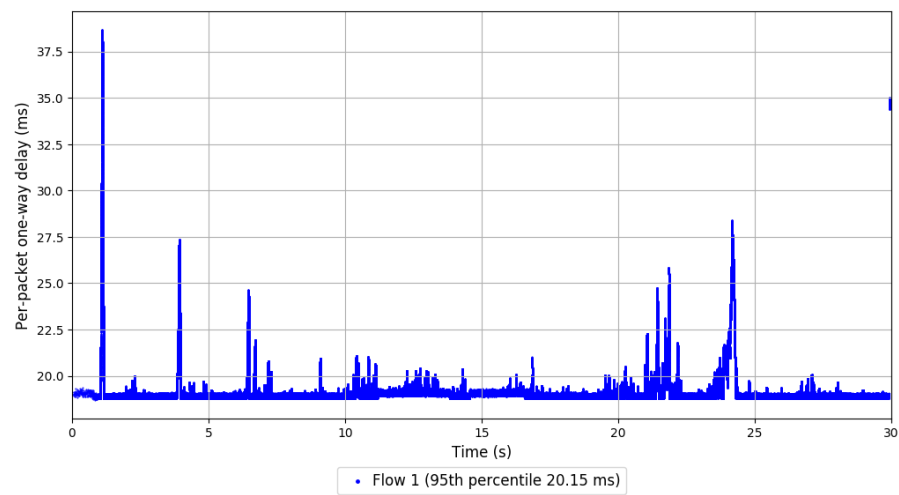
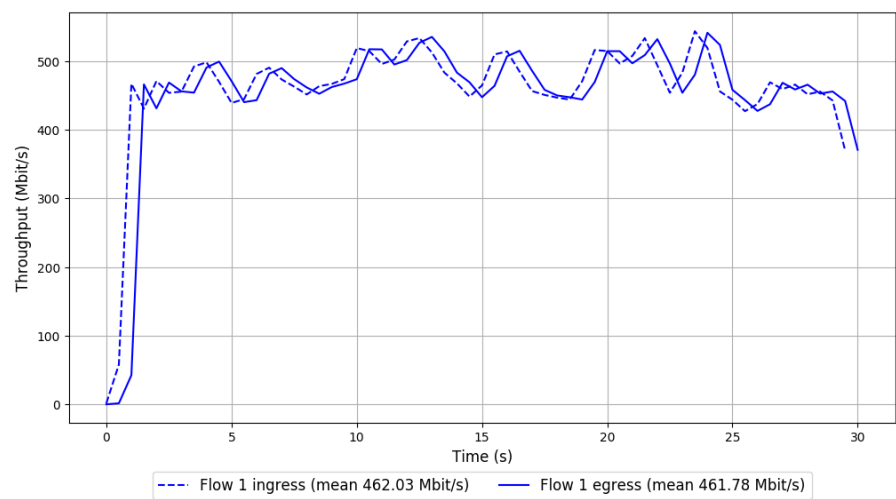
-- Flow 1:

Average throughput: 461.78 Mbit/s

95th percentile per-packet one-way delay: 20.151 ms

Loss rate: 0.06%

Run 10: Report of PCC-Vivace — Data Link

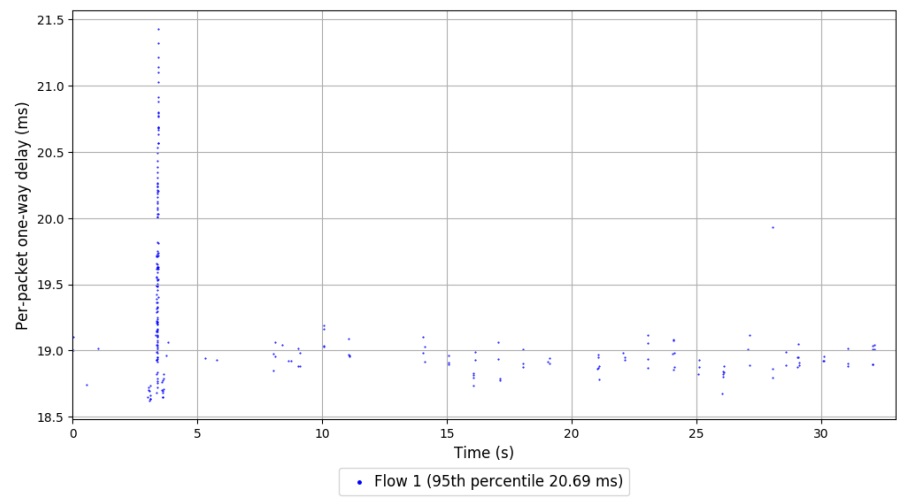
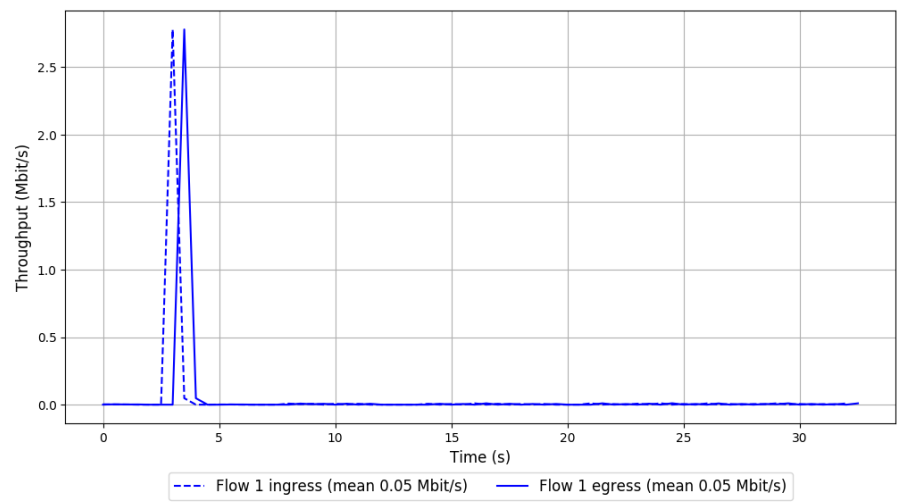


```
Run 1: Statistics of WebRTC media

Start at: 2018-05-24 03:50:52
End at: 2018-05-24 03:51:22
Local clock offset: 0.122 ms
Remote clock offset: 0.579 ms

# Below is generated by plot.py at 2018-05-24 09:11:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 20.690 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 20.690 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-05-24 04:14:52

End at: 2018-05-24 04:15:22

Local clock offset: 1.161 ms

Remote clock offset: 1.038 ms

Below is generated by plot.py at 2018-05-24 09:11:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 21.722 ms

Loss rate: 0.00%

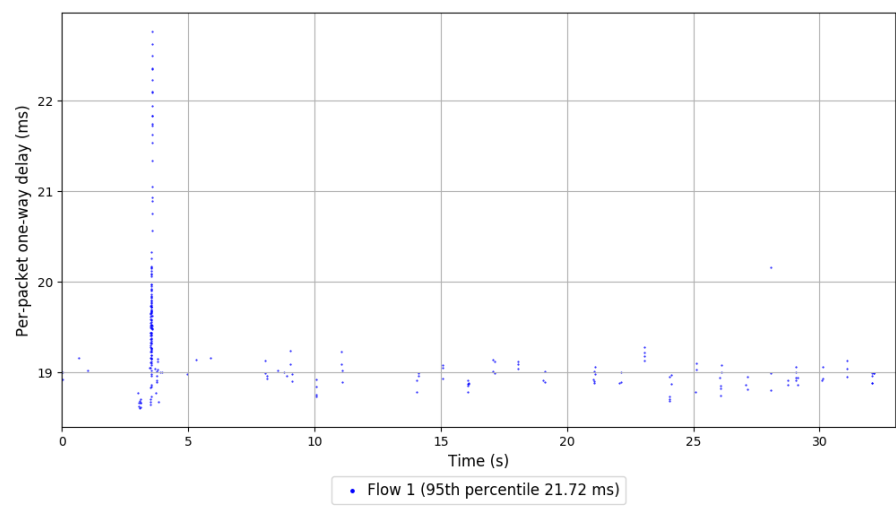
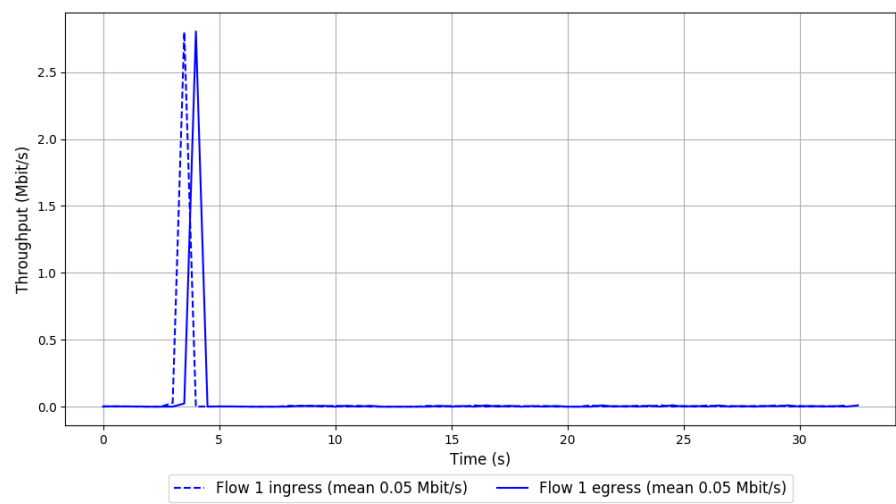
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 21.722 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-05-24 04:38:36

End at: 2018-05-24 04:39:06

Local clock offset: 0.948 ms

Remote clock offset: 1.414 ms

Below is generated by plot.py at 2018-05-24 09:11:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 21.095 ms

Loss rate: 0.00%

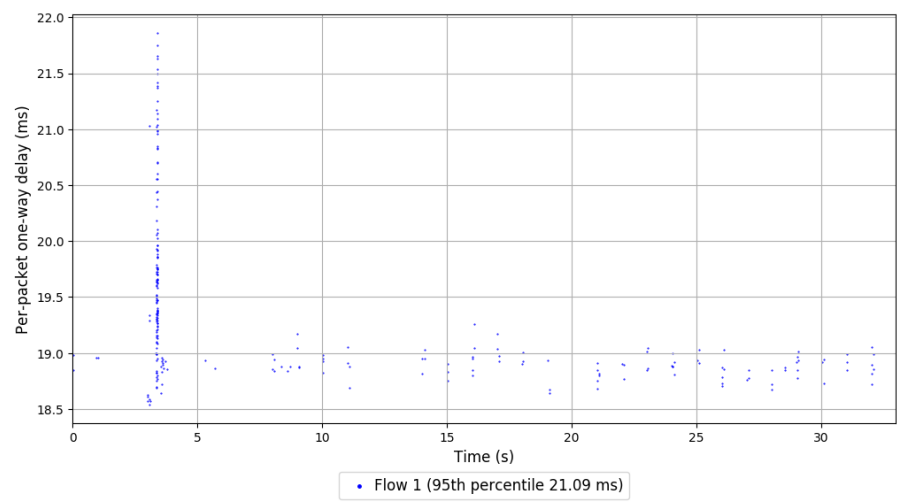
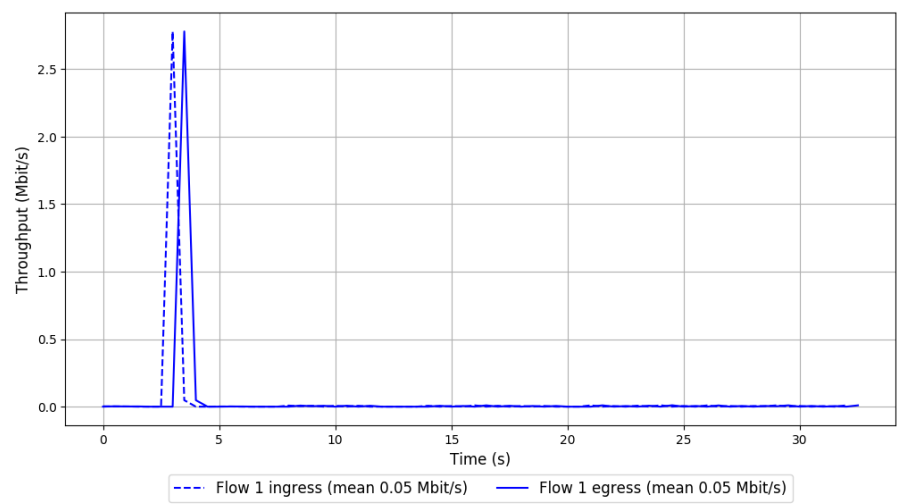
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 21.095 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-05-24 05:02:25

End at: 2018-05-24 05:02:55

Local clock offset: 0.407 ms

Remote clock offset: 0.451 ms

Below is generated by plot.py at 2018-05-24 09:11:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 20.511 ms

Loss rate: 0.00%

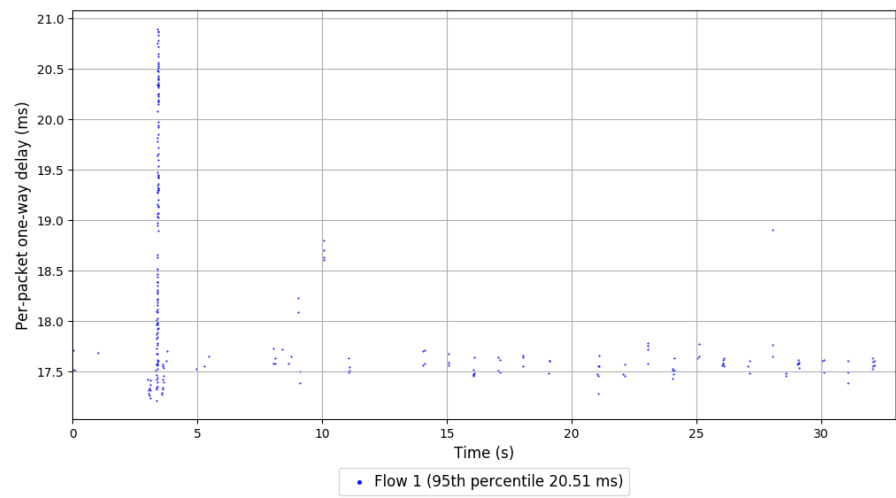
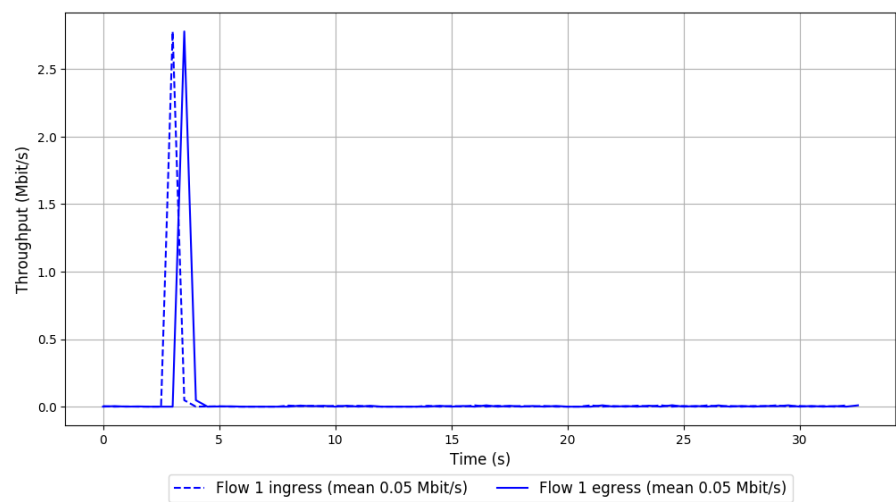
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 20.511 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

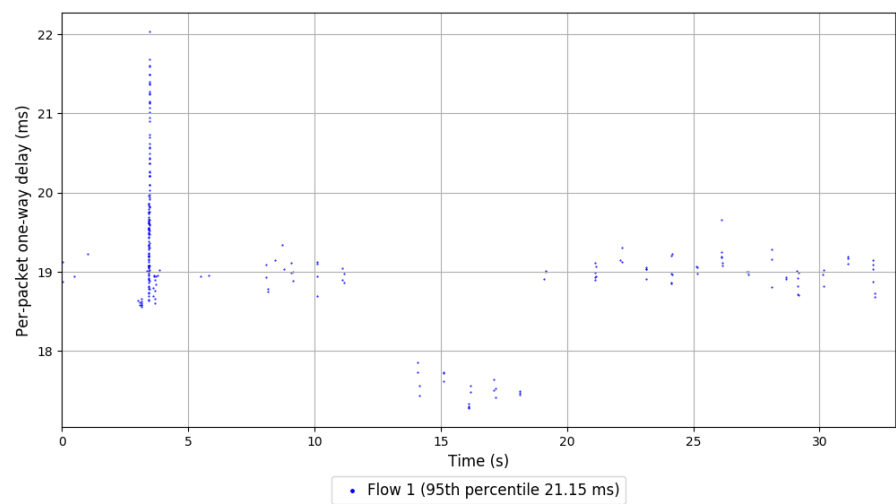
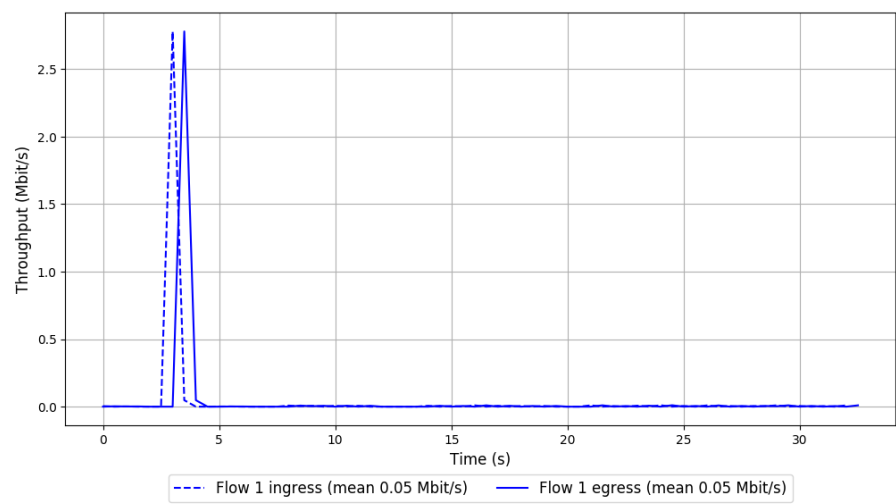


Run 5: Statistics of WebRTC media

Start at: 2018-05-24 05:26:21
End at: 2018-05-24 05:26:51
Local clock offset: -0.38 ms
Remote clock offset: -0.867 ms

Below is generated by plot.py at 2018-05-24 09:11:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 21.153 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 21.153 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

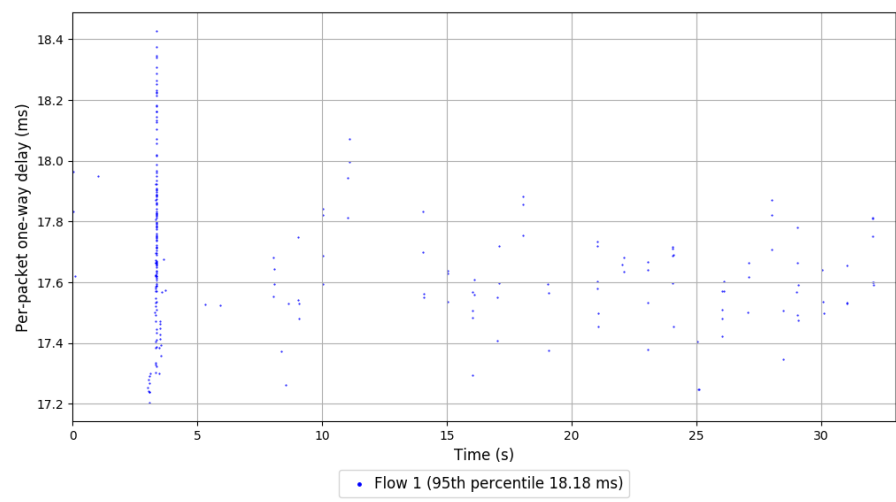
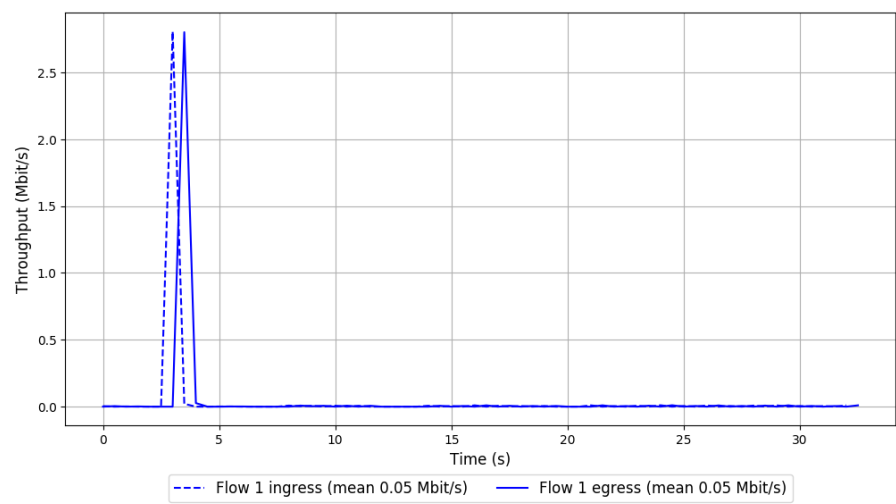


Run 6: Statistics of WebRTC media

Start at: 2018-05-24 05:50:03
End at: 2018-05-24 05:50:33
Local clock offset: 0.001 ms
Remote clock offset: -1.187 ms

Below is generated by plot.py at 2018-05-24 09:11:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 18.182 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 18.182 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

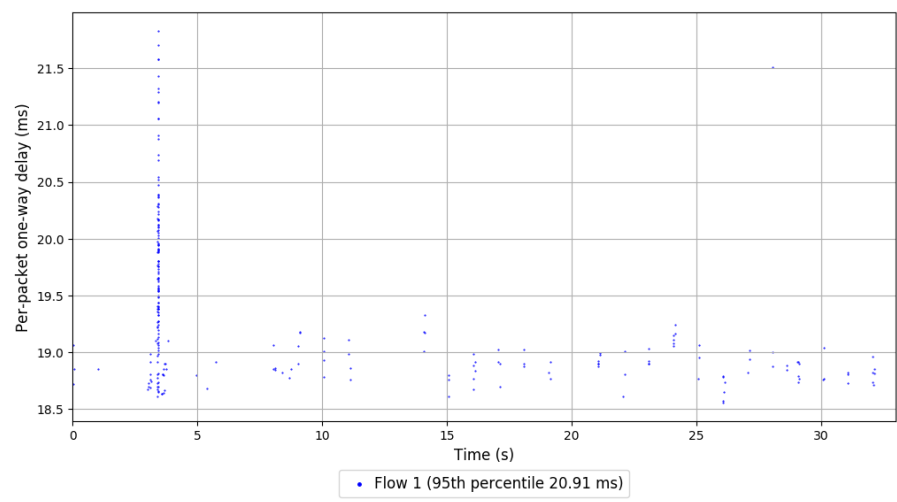
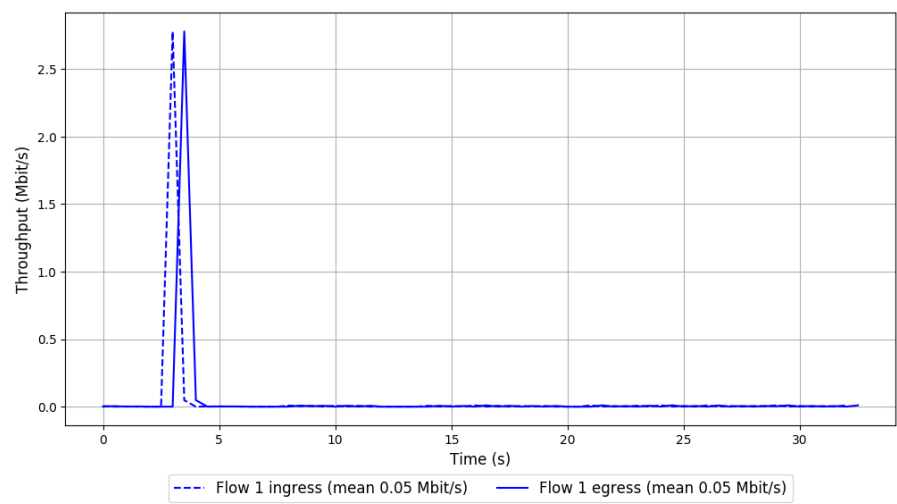


Run 7: Statistics of WebRTC media

Start at: 2018-05-24 06:13:50
End at: 2018-05-24 06:14:20
Local clock offset: 0.02 ms
Remote clock offset: -0.469 ms

Below is generated by plot.py at 2018-05-24 09:11:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 20.913 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 20.913 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-05-24 06:37:43

End at: 2018-05-24 06:38:13

Local clock offset: 0.079 ms

Remote clock offset: 0.252 ms

Below is generated by plot.py at 2018-05-24 09:11:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 22.948 ms

Loss rate: 0.00%

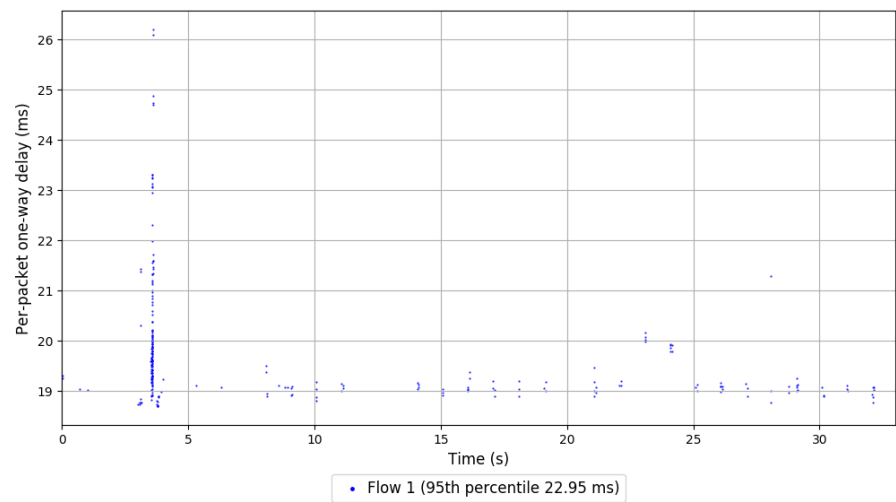
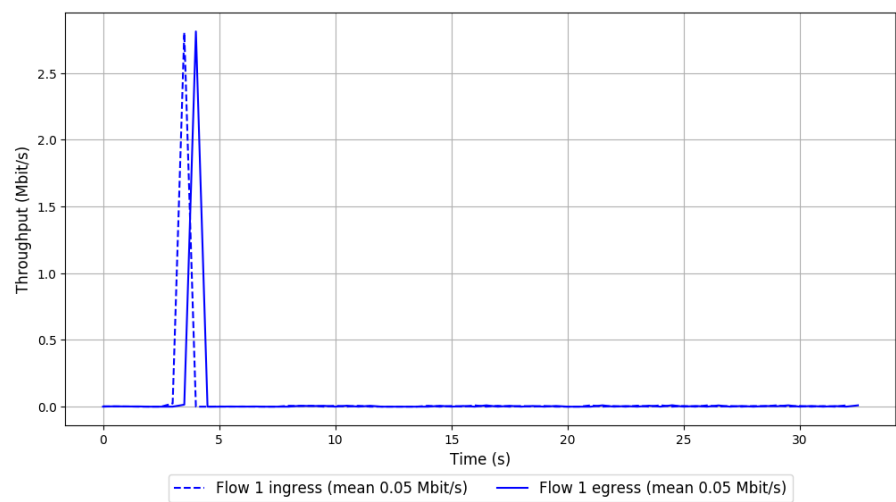
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 22.948 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

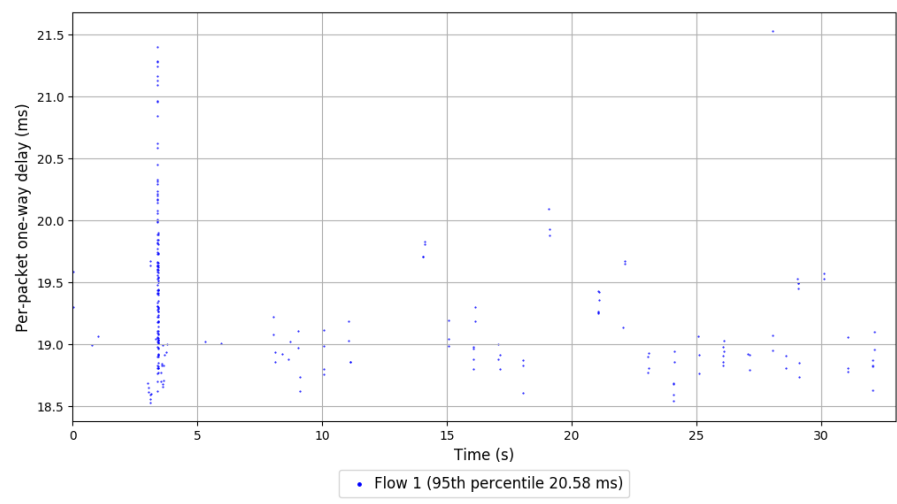
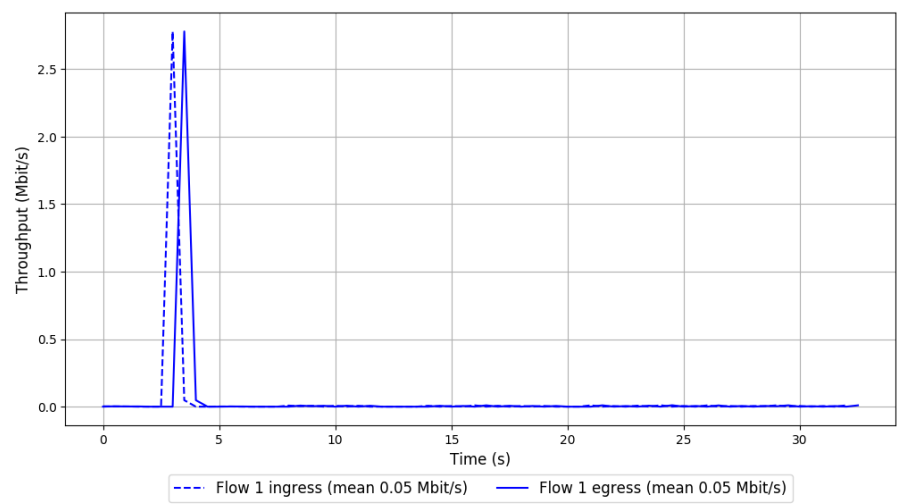


Run 9: Statistics of WebRTC media

Start at: 2018-05-24 07:01:38
End at: 2018-05-24 07:02:08
Local clock offset: 0.252 ms
Remote clock offset: -0.054 ms

Below is generated by plot.py at 2018-05-24 09:11:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 20.582 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 20.582 ms
Loss rate: 0.06%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-24 07:25:43

End at: 2018-05-24 07:26:13

Local clock offset: 0.181 ms

Remote clock offset: -0.072 ms

Below is generated by plot.py at 2018-05-24 09:11:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 20.383 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 20.383 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

