

Pantheon Report

Generated at 2018-07-03 23:02:31 (UTC).

Data path: AWS California 2 Ethernet (*local*) → Mexico Ethernet (*remote*).

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

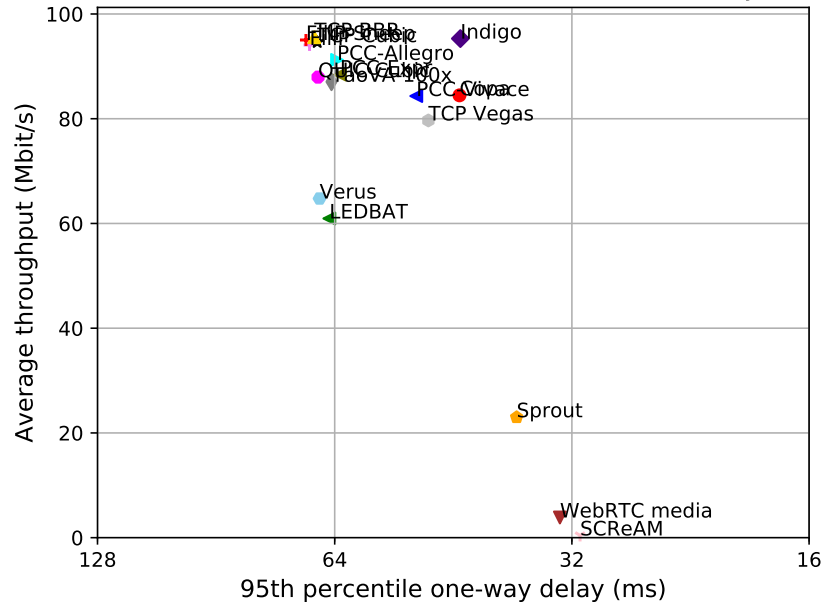
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

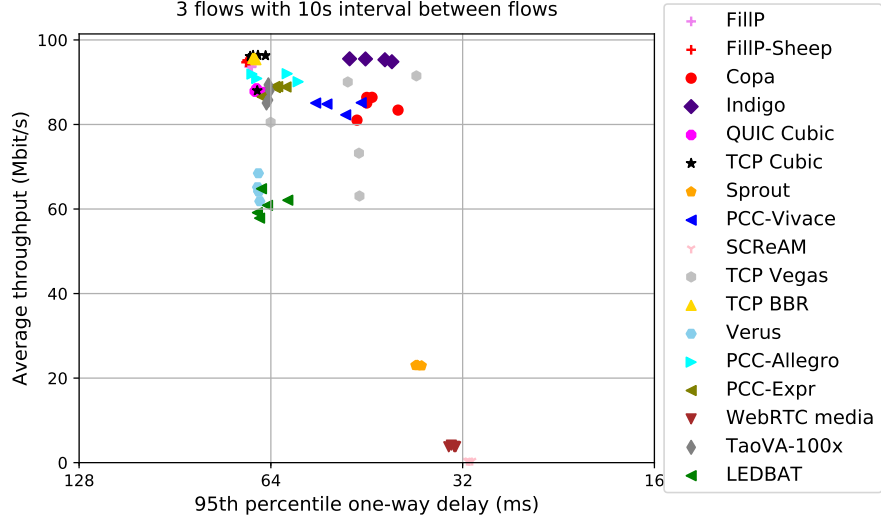
Git summary:

```
branch: master @ 9250dbeec7fb57193cdff1ba8c440b4e16ab30f0
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ 37162fe9af85249aeccac061c93e75640ef710b5
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf90c077e64d
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
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from AWS California 2 to Mexico, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS California 2 to Mexico, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows



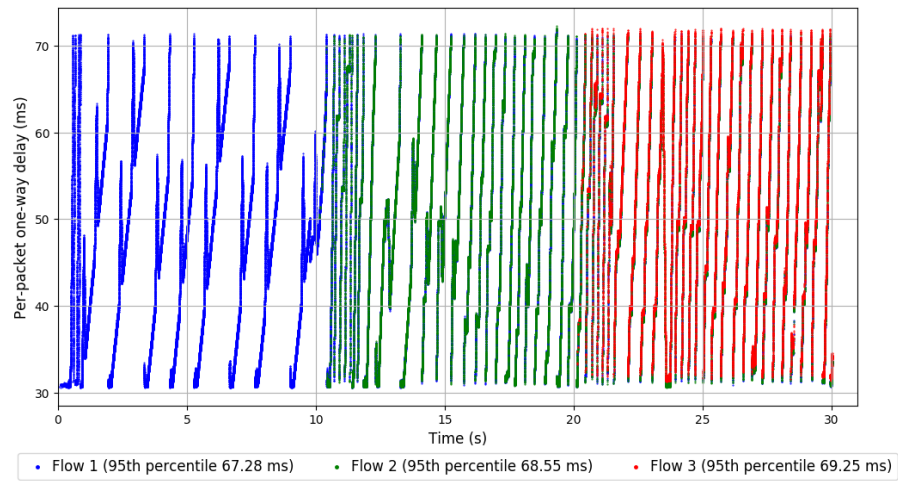
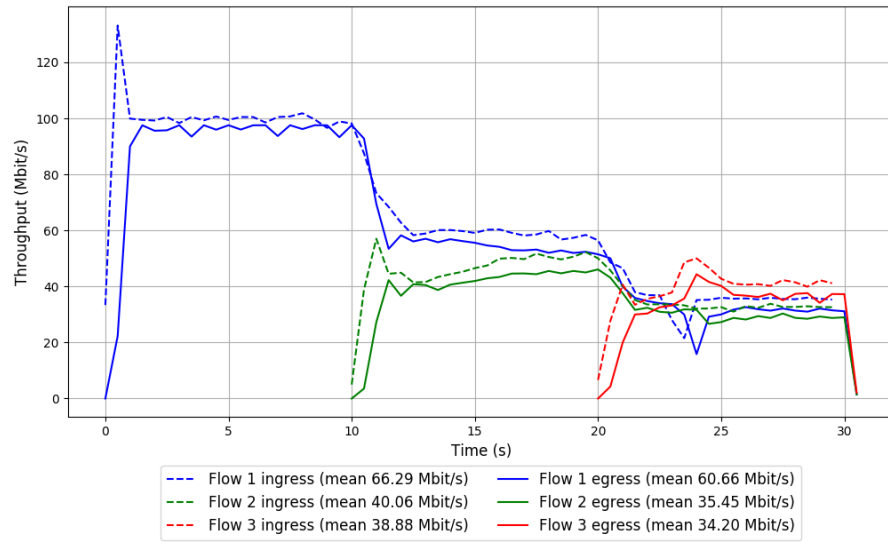
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	4	63.26	35.75	25.60	67.41	68.66	68.48	8.14	10.83	11.32
Copa	5	55.15	34.36	19.33	47.82	42.70	40.80	0.58	0.33	0.17
TCP Cubic	5	65.35	32.36	23.32	67.57	65.60	65.58	0.82	0.73	0.65
FillP	4	61.17	37.48	24.05	68.51	69.31	69.74	22.43	34.72	41.18
FillP-Sheep	4	57.00	39.95	35.03	69.97	68.75	68.97	15.86	26.12	32.29
Indigo	4	63.13	32.33	32.82	41.88	46.09	49.13	0.14	0.27	0.08
LEDBAT	5	40.17	21.40	19.74	64.62	66.09	55.38	0.15	0.46	0.22
PCC-Allegro	4	79.33	12.79	10.28	63.28	64.70	65.62	4.10	5.34	6.51
PCC-Expr	5	66.97	26.14	12.31	61.83	64.84	66.23	1.64	1.51	2.01
QUIC Cubic	5	63.31	26.97	20.46	67.02	67.48	67.36	1.99	1.30	1.30
SCReAM	5	0.21	0.22	0.22	30.86	31.15	30.99	0.04	0.00	0.00
Sprout	4	11.66	11.47	11.23	37.47	37.43	38.07	0.02	0.01	0.00
TaoVA-100x	4	51.54	38.41	29.86	62.05	65.47	66.90	13.99	24.64	18.73
TCP Vegas	5	39.54	48.09	24.36	46.90	43.53	40.29	0.76	0.42	0.24
Verus	5	41.98	25.18	20.45	66.81	66.46	71.47	27.12	30.22	54.96
PCC-Vivace	4	63.22	26.89	9.78	49.90	50.99	55.02	0.23	0.19	0.29
WebRTC media	5	2.02	1.37	0.48	32.65	33.39	33.83	0.03	0.03	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-07-03 18:37:25
End at: 2018-07-03 18:37:55
Local clock offset: -2.911 ms
Remote clock offset: -1.923 ms

Below is generated by plot.py at 2018-07-03 22:52:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.60 Mbit/s
95th percentile per-packet one-way delay: 67.960 ms
Loss rate: 9.73%
-- Flow 1:
Average throughput: 60.66 Mbit/s
95th percentile per-packet one-way delay: 67.285 ms
Loss rate: 8.48%
-- Flow 2:
Average throughput: 35.45 Mbit/s
95th percentile per-packet one-way delay: 68.552 ms
Loss rate: 11.57%
-- Flow 3:
Average throughput: 34.20 Mbit/s
95th percentile per-packet one-way delay: 69.249 ms
Loss rate: 12.33%

Run 1: Report of TCP BBR — Data Link

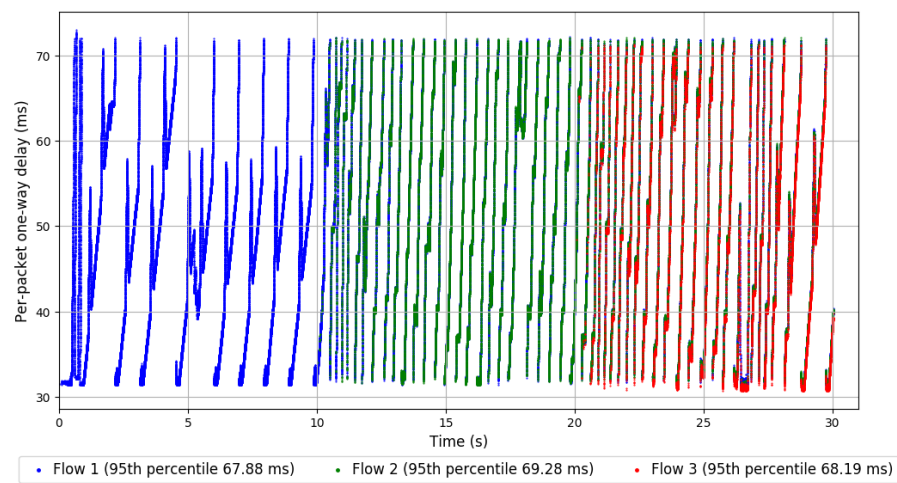
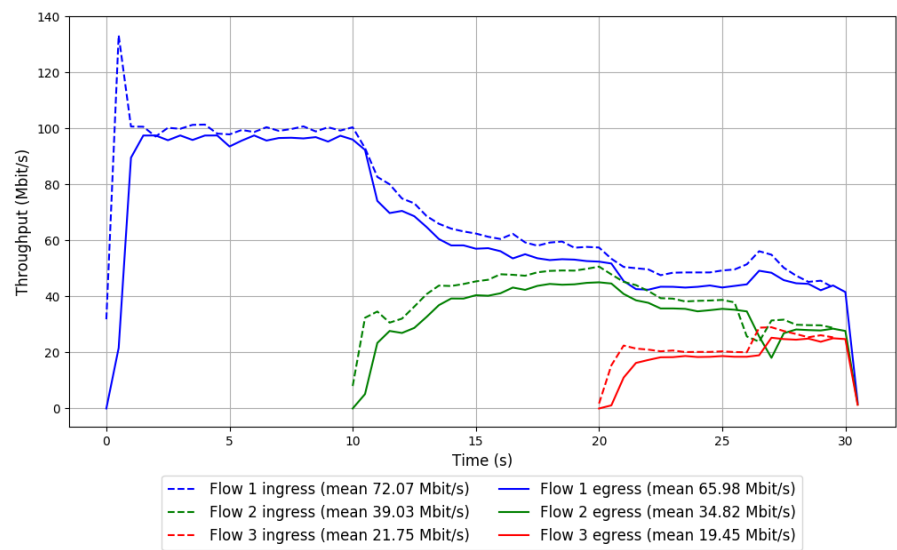


Run 2: Statistics of TCP BBR

Start at: 2018-07-03 19:00:10
End at: 2018-07-03 19:00:41
Local clock offset: -2.846 ms
Remote clock offset: -1.519 ms

Below is generated by plot.py at 2018-07-03 22:52:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 68.334 ms
Loss rate: 9.16%
-- Flow 1:
Average throughput: 65.98 Mbit/s
95th percentile per-packet one-way delay: 67.875 ms
Loss rate: 8.42%
-- Flow 2:
Average throughput: 34.82 Mbit/s
95th percentile per-packet one-way delay: 69.281 ms
Loss rate: 10.78%
-- Flow 3:
Average throughput: 19.45 Mbit/s
95th percentile per-packet one-way delay: 68.194 ms
Loss rate: 10.69%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-07-03 19:22:55

End at: 2018-07-03 19:23:25

Local clock offset: -2.606 ms

Remote clock offset: 6.545 ms

Below is generated by plot.py at 2018-07-03 22:52:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.33 Mbit/s

95th percentile per-packet one-way delay: 67.552 ms

Loss rate: 7.96%

-- Flow 1:

Average throughput: 61.80 Mbit/s

95th percentile per-packet one-way delay: 67.076 ms

Loss rate: 7.09%

-- Flow 2:

Average throughput: 34.55 Mbit/s

95th percentile per-packet one-way delay: 68.187 ms

Loss rate: 9.42%

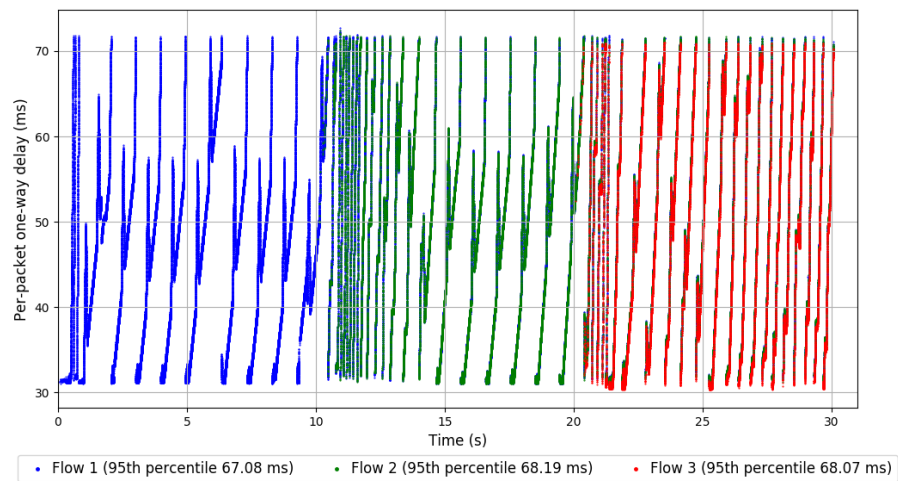
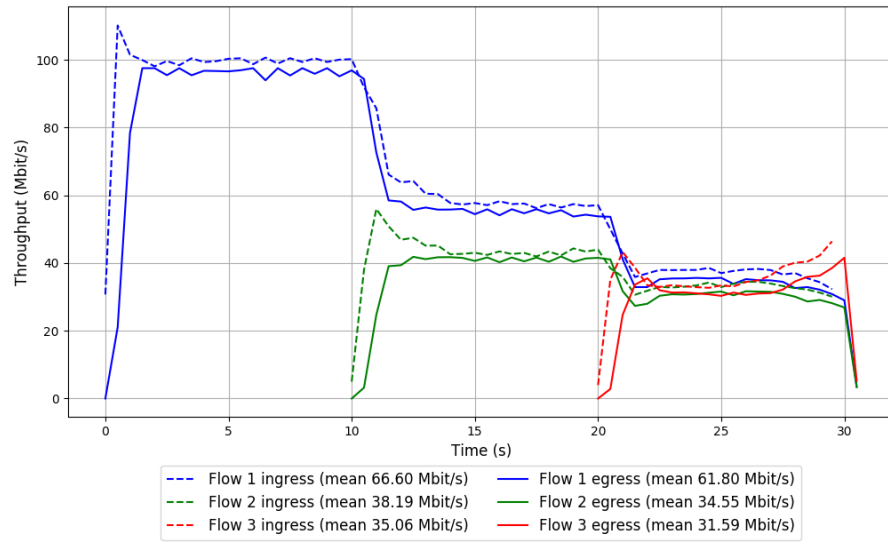
-- Flow 3:

Average throughput: 31.59 Mbit/s

95th percentile per-packet one-way delay: 68.070 ms

Loss rate: 9.73%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-07-03 19:45:43

End at: 2018-07-03 19:46:13

Local clock offset: 0.026 ms

Remote clock offset: 9.596 ms

Below is generated by plot.py at 2018-07-03 22:52:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.71 Mbit/s

95th percentile per-packet one-way delay: 67.894 ms

Loss rate: 9.61%

-- Flow 1:

Average throughput: 64.61 Mbit/s

95th percentile per-packet one-way delay: 67.413 ms

Loss rate: 8.56%

-- Flow 2:

Average throughput: 38.17 Mbit/s

95th percentile per-packet one-way delay: 68.622 ms

Loss rate: 11.54%

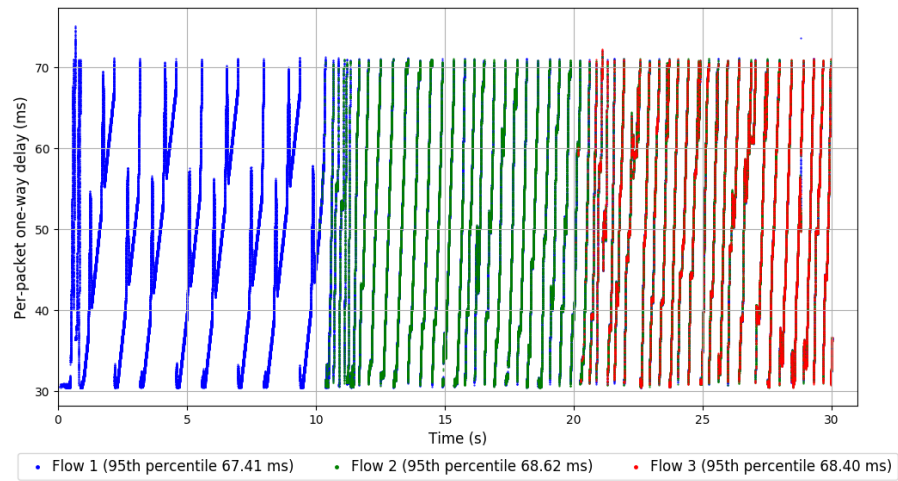
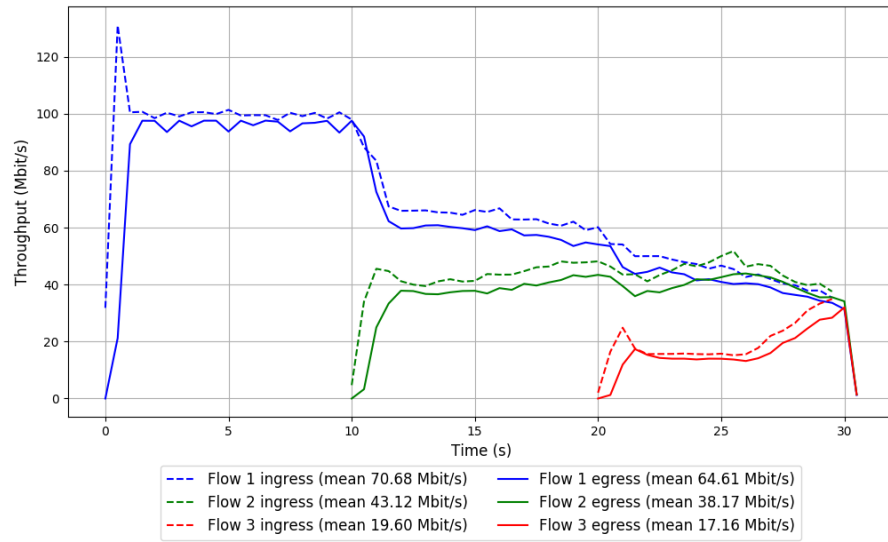
-- Flow 3:

Average throughput: 17.16 Mbit/s

95th percentile per-packet one-way delay: 68.396 ms

Loss rate: 12.54%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/bbr_s

Run 5: Report of TCP BBR — Data Link

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Run 6: Statistics of TCP BBR

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/bbr_s

Run 6: Report of TCP BBR — Data Link

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Run 7: Statistics of TCP BBR

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/bbr_s

Run 7: Report of TCP BBR — Data Link

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Run 8: Statistics of TCP BBR

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/bbr_s

Run 8: Report of TCP BBR — Data Link

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Run 9: Statistics of TCP BBR

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/bbr_s

Run 9: Report of TCP BBR — Data Link

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Run 10: Statistics of TCP BBR

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/bbr_s

Run 10: Report of TCP BBR — Data Link

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Run 1: Statistics of Copa

Start at: 2018-07-03 18:25:25

End at: 2018-07-03 18:25:55

Local clock offset: -2.728 ms

Remote clock offset: -2.25 ms

Below is generated by plot.py at 2018-07-03 22:53:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.40 Mbit/s

95th percentile per-packet one-way delay: 40.417 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 45.66 Mbit/s

95th percentile per-packet one-way delay: 46.884 ms

Loss rate: 1.07%

-- Flow 2:

Average throughput: 48.21 Mbit/s

95th percentile per-packet one-way delay: 38.000 ms

Loss rate: 0.55%

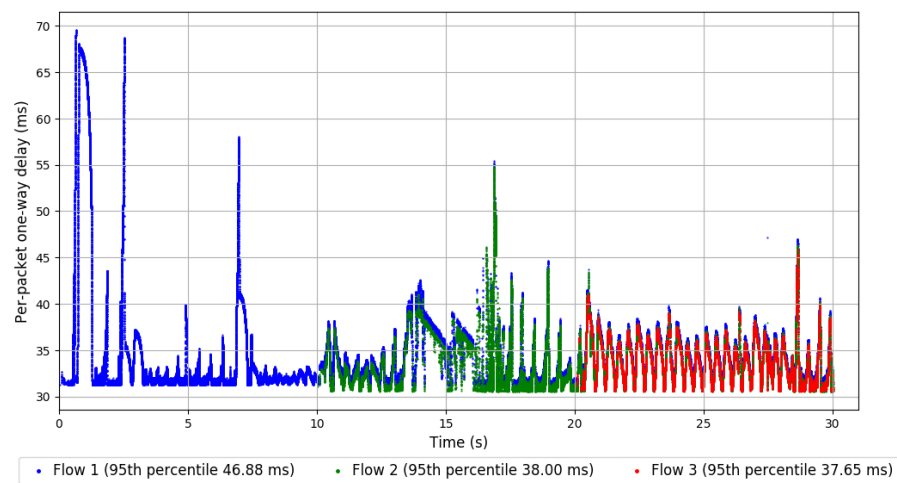
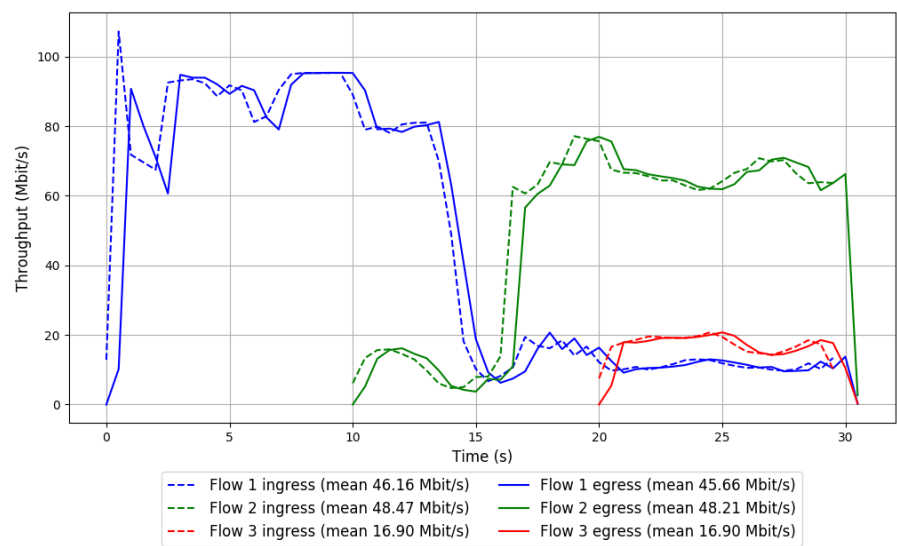
-- Flow 3:

Average throughput: 16.90 Mbit/s

95th percentile per-packet one-way delay: 37.648 ms

Loss rate: 0.04%

Run 1: Report of Copa — Data Link

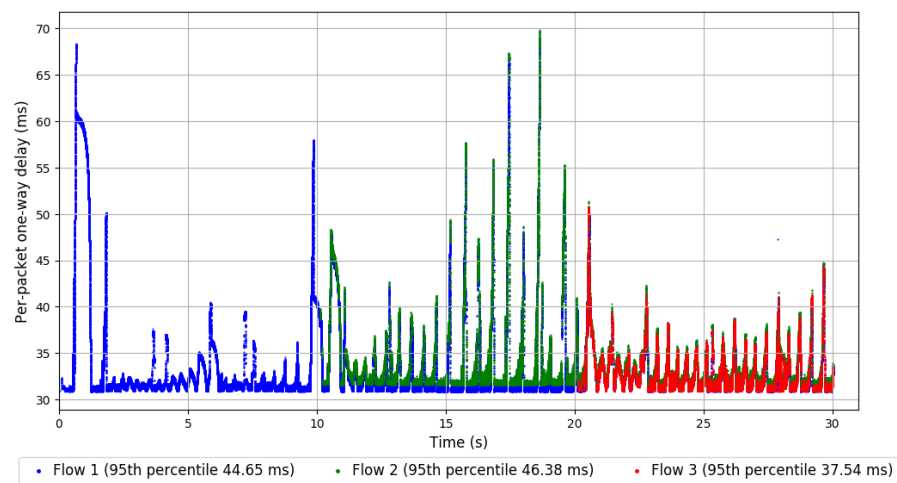
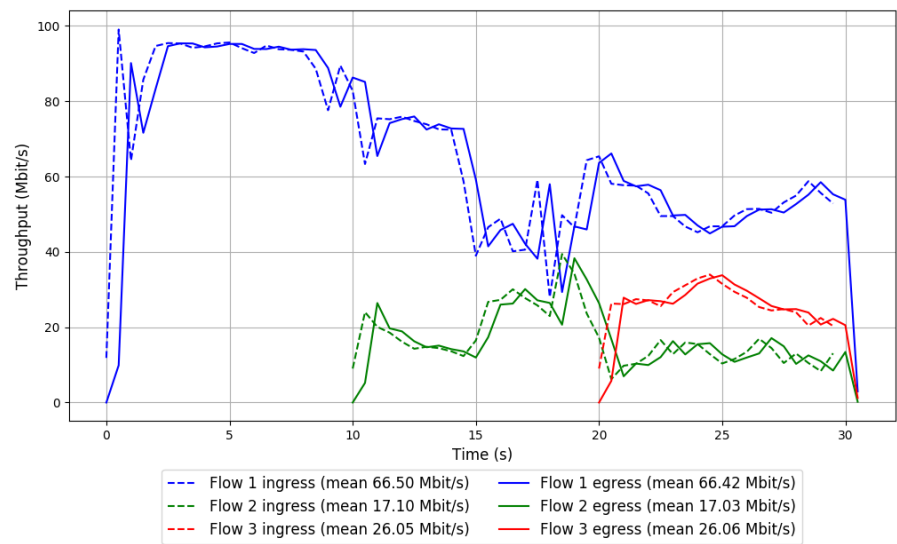


Run 2: Statistics of Copa

Start at: 2018-07-03 18:48:12
End at: 2018-07-03 18:48:42
Local clock offset: -2.958 ms
Remote clock offset: -1.609 ms

Below is generated by plot.py at 2018-07-03 22:53:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.42 Mbit/s
95th percentile per-packet one-way delay: 44.401 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 66.42 Mbit/s
95th percentile per-packet one-way delay: 44.651 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 17.03 Mbit/s
95th percentile per-packet one-way delay: 46.381 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 26.06 Mbit/s
95th percentile per-packet one-way delay: 37.544 ms
Loss rate: 0.01%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-07-03 19:10:56

End at: 2018-07-03 19:11:26

Local clock offset: -2.634 ms

Remote clock offset: 3.944 ms

Below is generated by plot.py at 2018-07-03 22:53:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.03 Mbit/s

95th percentile per-packet one-way delay: 46.883 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 61.97 Mbit/s

95th percentile per-packet one-way delay: 46.883 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 17.87 Mbit/s

95th percentile per-packet one-way delay: 46.903 ms

Loss rate: 0.32%

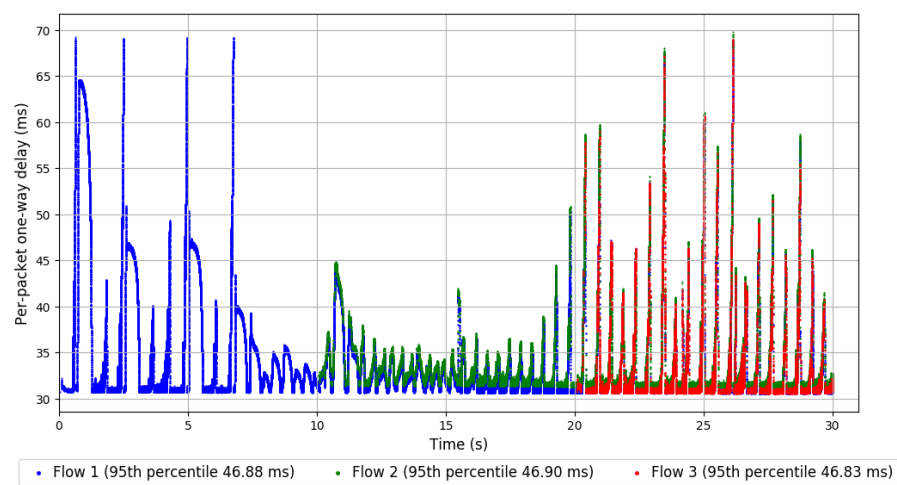
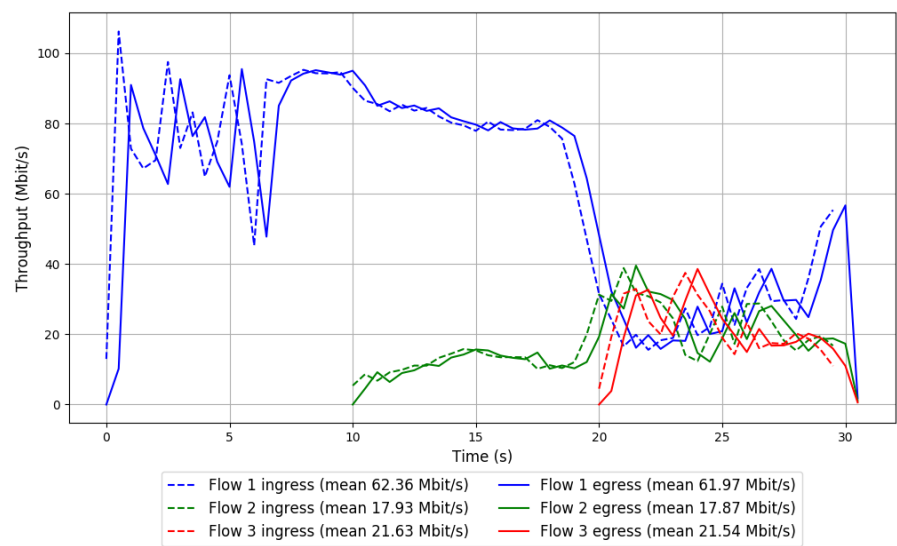
-- Flow 3:

Average throughput: 21.54 Mbit/s

95th percentile per-packet one-way delay: 46.830 ms

Loss rate: 0.42%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-07-03 19:33:42

End at: 2018-07-03 19:34:12

Local clock offset: -2.407 ms

Remote clock offset: 8.753 ms

Below is generated by plot.py at 2018-07-03 22:53:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.07 Mbit/s

95th percentile per-packet one-way delay: 45.255 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 60.24 Mbit/s

95th percentile per-packet one-way delay: 47.075 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 27.04 Mbit/s

95th percentile per-packet one-way delay: 40.829 ms

Loss rate: 0.14%

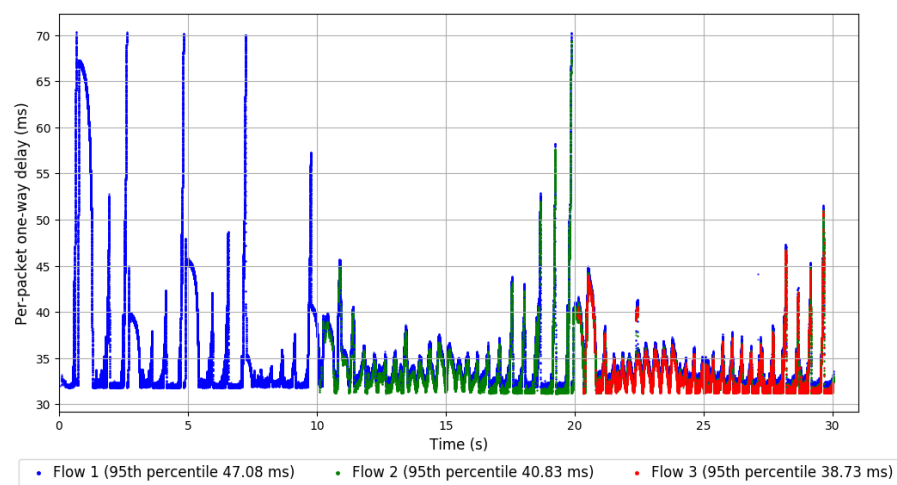
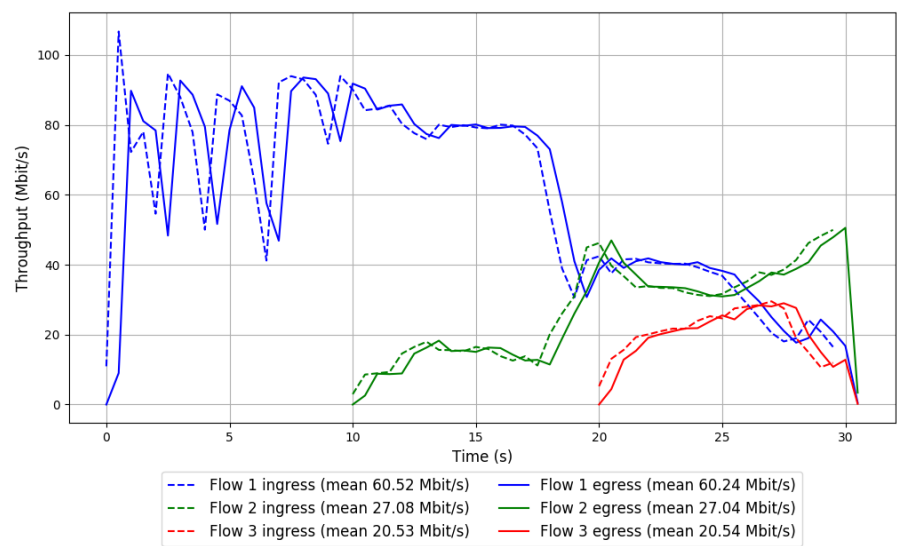
-- Flow 3:

Average throughput: 20.54 Mbit/s

95th percentile per-packet one-way delay: 38.733 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link

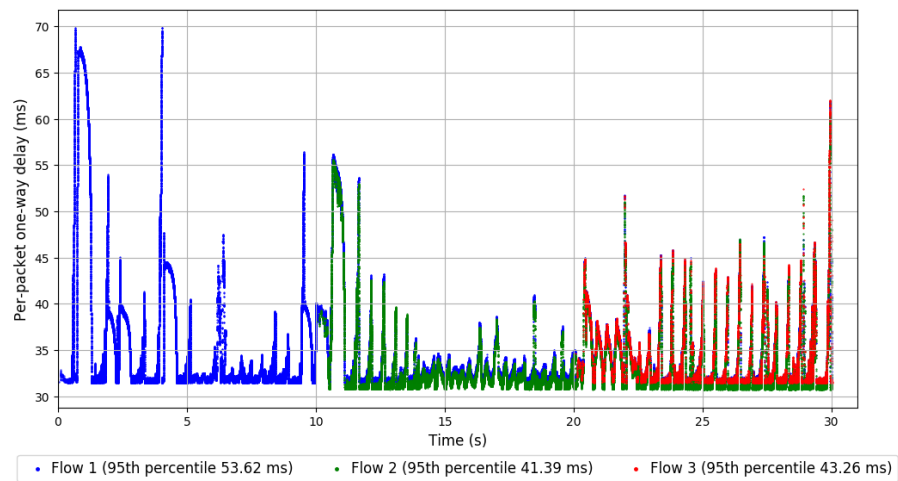
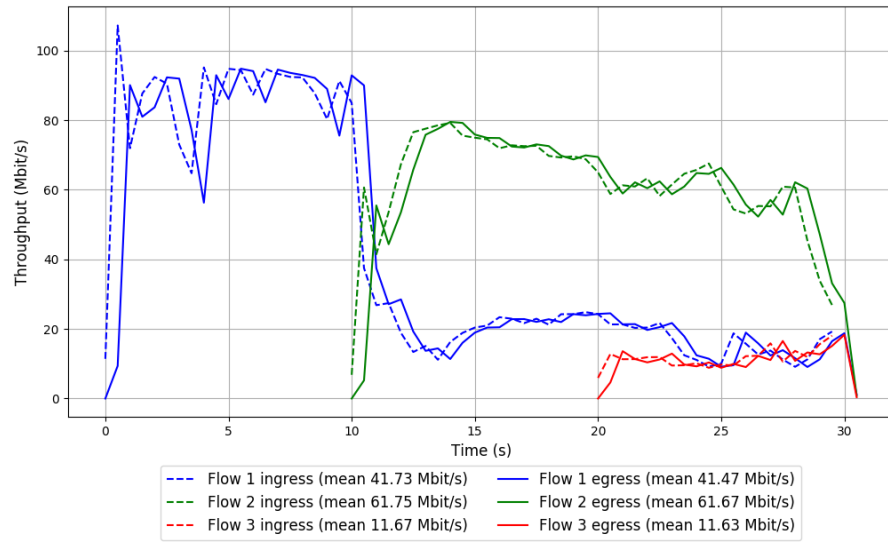


Run 5: Statistics of Copa

Start at: 2018-07-03 19:56:31
End at: 2018-07-03 19:57:01
Local clock offset: 0.864 ms
Remote clock offset: 11.375 ms

Below is generated by plot.py at 2018-07-03 22:54:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.40 Mbit/s
95th percentile per-packet one-way delay: 45.255 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 41.47 Mbit/s
95th percentile per-packet one-way delay: 53.616 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 61.67 Mbit/s
95th percentile per-packet one-way delay: 41.393 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 11.63 Mbit/s
95th percentile per-packet one-way delay: 43.257 ms
Loss rate: 0.38%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/copa.

Run 6: Report of Copa — Data Link

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Run 7: Statistics of Copa

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/copa.

Run 7: Report of Copa — Data Link

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Run 8: Statistics of Copa

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/copa.

Run 8: Report of Copa — Data Link

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Run 9: Statistics of Copa

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/copa.

Run 9: Report of Copa — Data Link

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Run 10: Statistics of Copa

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/copa.

Run 10: Report of Copa — Data Link

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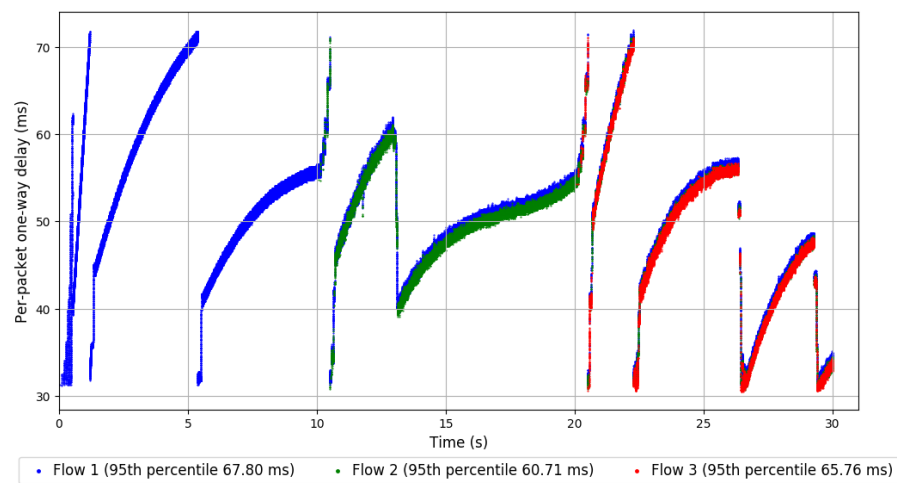
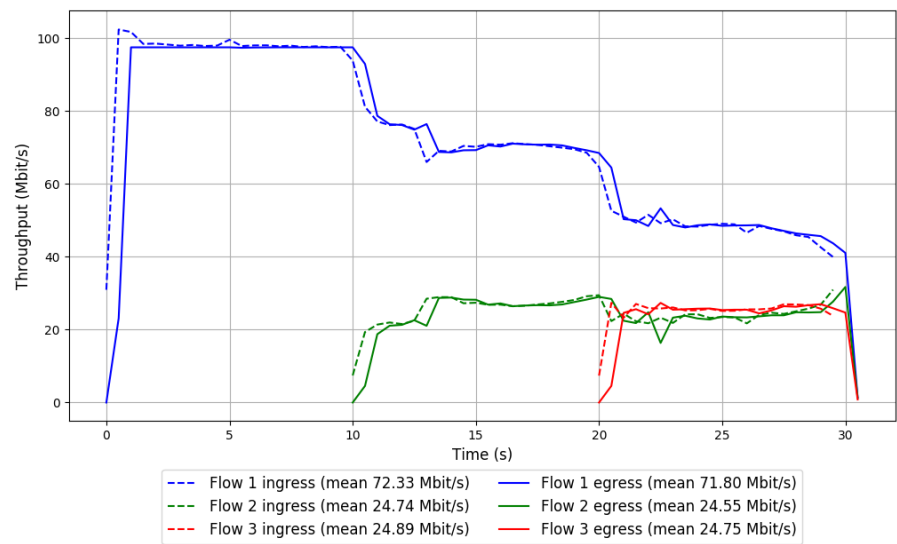
Figure is missing

Run 1: Statistics of TCP Cubic

Start at: 2018-07-03 18:21:25
End at: 2018-07-03 18:21:55
Local clock offset: -2.5 ms
Remote clock offset: -2.272 ms

Below is generated by plot.py at 2018-07-03 22:54:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.36 Mbit/s
95th percentile per-packet one-way delay: 67.066 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 71.80 Mbit/s
95th percentile per-packet one-way delay: 67.802 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 24.55 Mbit/s
95th percentile per-packet one-way delay: 60.708 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 24.75 Mbit/s
95th percentile per-packet one-way delay: 65.764 ms
Loss rate: 0.75%

Run 1: Report of TCP Cubic — Data Link

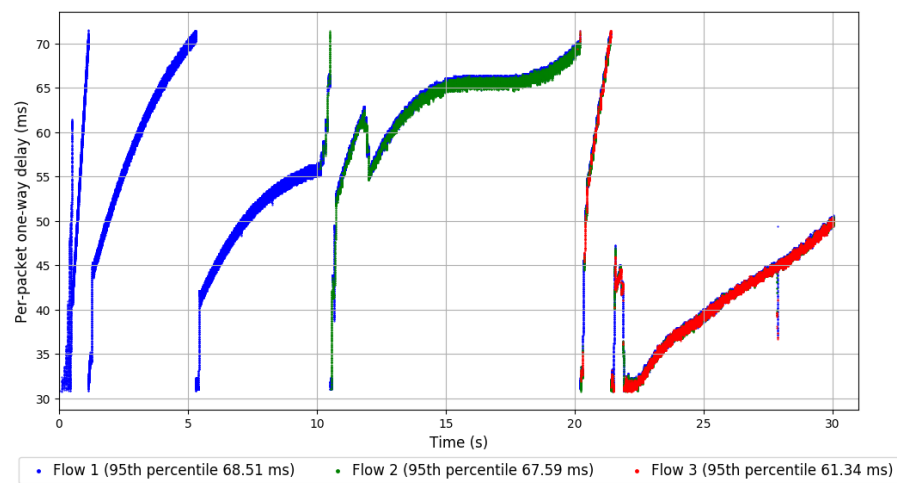
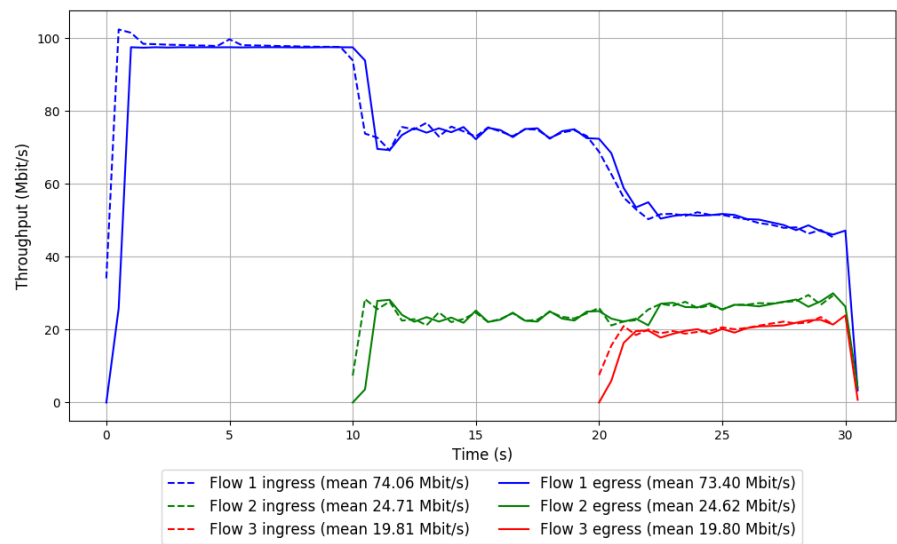


Run 2: Statistics of TCP Cubic

Start at: 2018-07-03 18:44:12
End at: 2018-07-03 18:44:42
Local clock offset: -2.86 ms
Remote clock offset: -1.671 ms

Below is generated by plot.py at 2018-07-03 22:54:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.34 Mbit/s
95th percentile per-packet one-way delay: 68.252 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 73.40 Mbit/s
95th percentile per-packet one-way delay: 68.506 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 24.62 Mbit/s
95th percentile per-packet one-way delay: 67.586 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 19.80 Mbit/s
95th percentile per-packet one-way delay: 61.342 ms
Loss rate: 0.24%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-07-03 19:06:56

End at: 2018-07-03 19:07:26

Local clock offset: -2.696 ms

Remote clock offset: 1.794 ms

Below is generated by plot.py at 2018-07-03 22:54:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.12 Mbit/s

95th percentile per-packet one-way delay: 68.975 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 73.57 Mbit/s

95th percentile per-packet one-way delay: 69.129 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 23.91 Mbit/s

95th percentile per-packet one-way delay: 68.925 ms

Loss rate: 0.49%

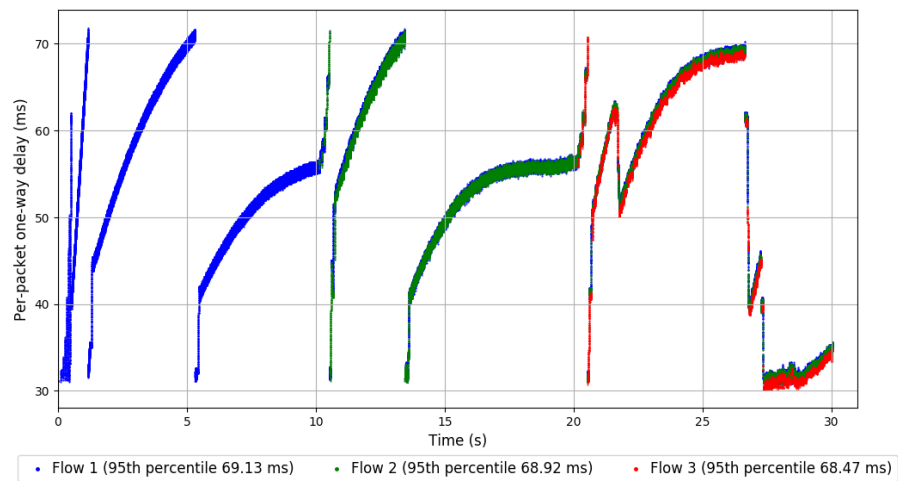
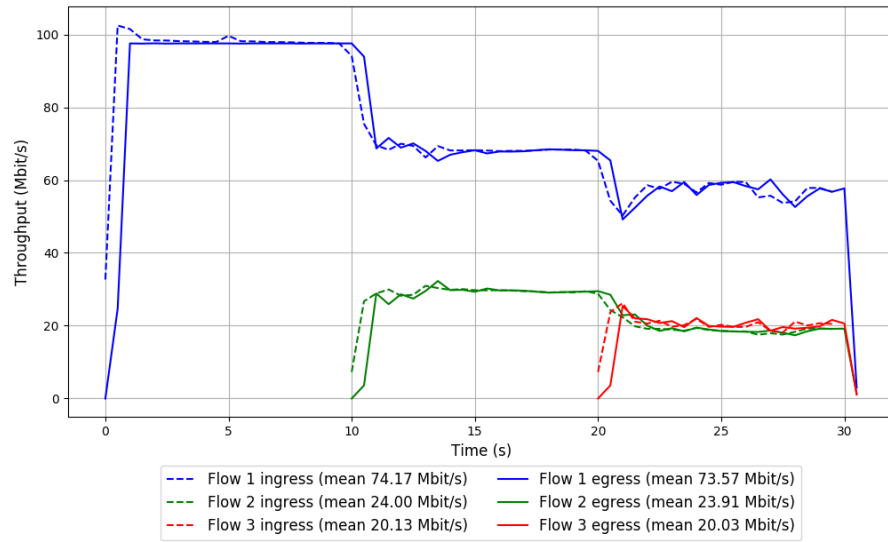
-- Flow 3:

Average throughput: 20.03 Mbit/s

95th percentile per-packet one-way delay: 68.468 ms

Loss rate: 0.71%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-07-03 19:29:41

End at: 2018-07-03 19:30:11

Local clock offset: -2.598 ms

Remote clock offset: 7.939 ms

Below is generated by plot.py at 2018-07-03 22:54:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.30 Mbit/s

95th percentile per-packet one-way delay: 65.237 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 69.80 Mbit/s

95th percentile per-packet one-way delay: 63.803 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 29.32 Mbit/s

95th percentile per-packet one-way delay: 67.342 ms

Loss rate: 1.33%

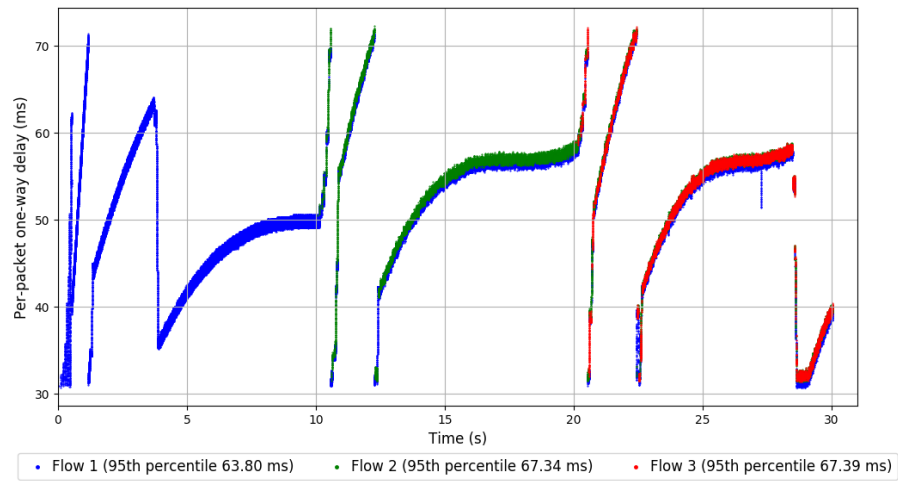
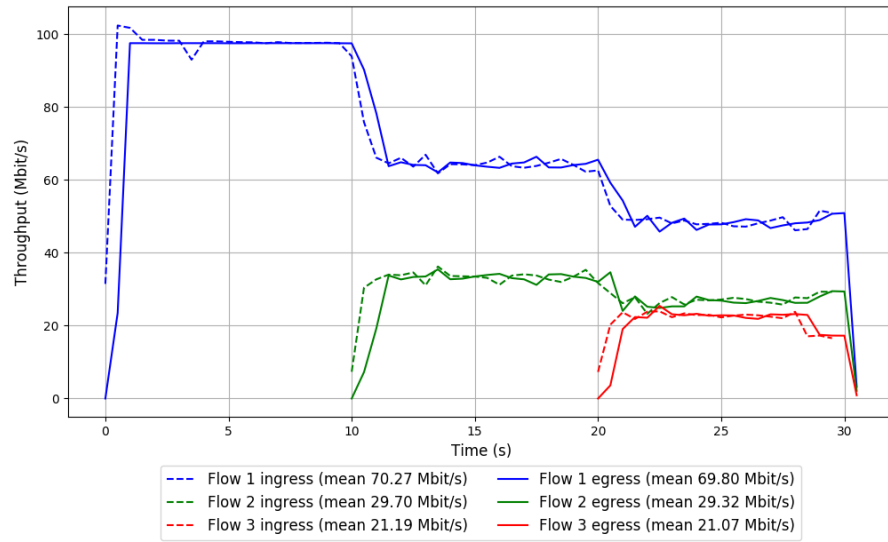
-- Flow 3:

Average throughput: 21.07 Mbit/s

95th percentile per-packet one-way delay: 67.387 ms

Loss rate: 0.76%

Run 4: Report of TCP Cubic — Data Link

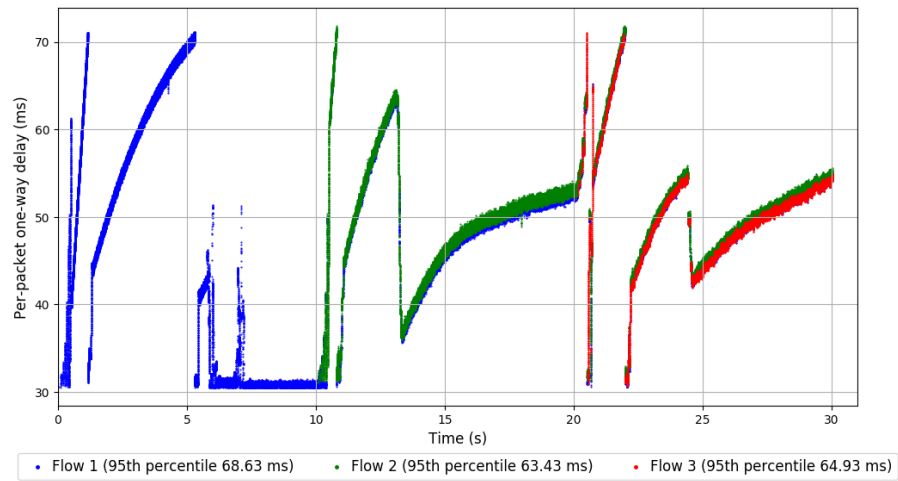
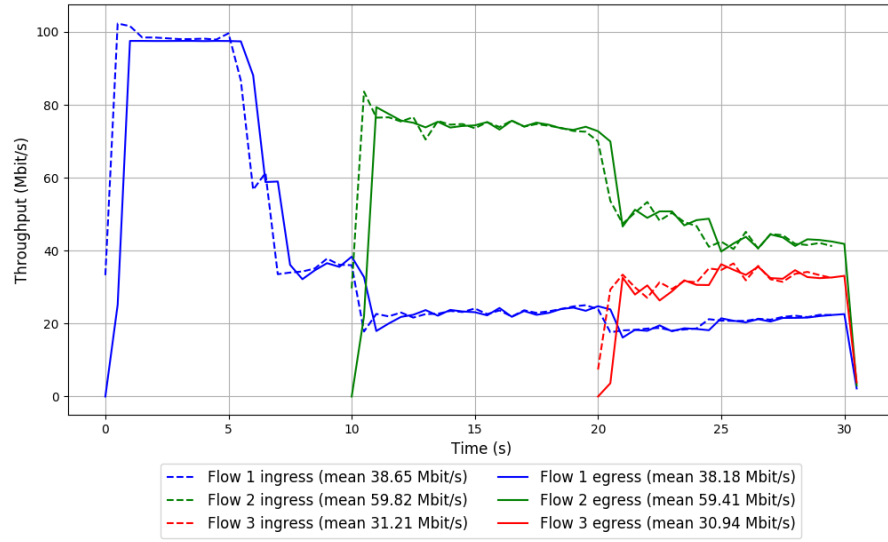


Run 5: Statistics of TCP Cubic

Start at: 2018-07-03 19:52:30
End at: 2018-07-03 19:53:00
Local clock offset: 0.63 ms
Remote clock offset: 10.525 ms

Below is generated by plot.py at 2018-07-03 22:54:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.02 Mbit/s
95th percentile per-packet one-way delay: 67.229 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 38.18 Mbit/s
95th percentile per-packet one-way delay: 68.631 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 59.41 Mbit/s
95th percentile per-packet one-way delay: 63.431 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 30.94 Mbit/s
95th percentile per-packet one-way delay: 64.930 ms
Loss rate: 0.81%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/cubic

Run 6: Report of TCP Cubic — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of TCP Cubic

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/cubic

Run 7: Report of TCP Cubic — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of TCP Cubic

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/cubic

Run 8: Report of TCP Cubic — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of TCP Cubic

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/cubic

Run 9: Report of TCP Cubic — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of TCP Cubic

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/cubic

Run 10: Report of TCP Cubic — Data Link

Figure is missing

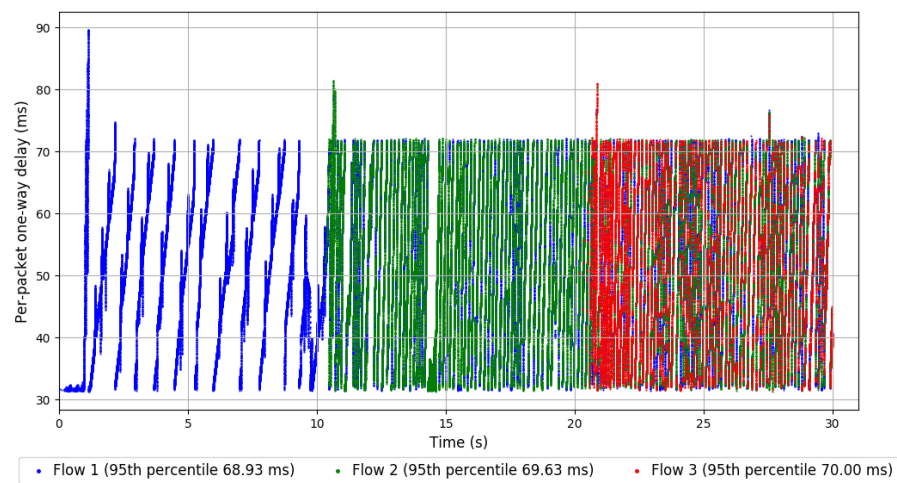
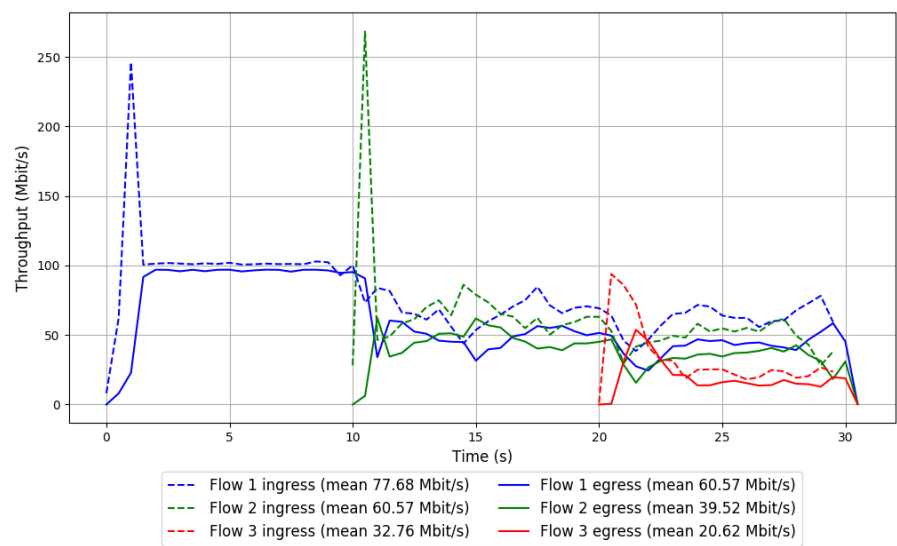
Figure is missing

Run 1: Statistics of FillP

Start at: 2018-07-03 18:32:05
End at: 2018-07-03 18:32:35
Local clock offset: -3.03 ms
Remote clock offset: -1.879 ms

Below is generated by plot.py at 2018-07-03 22:54:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.67 Mbit/s
95th percentile per-packet one-way delay: 69.220 ms
Loss rate: 27.27%
-- Flow 1:
Average throughput: 60.57 Mbit/s
95th percentile per-packet one-way delay: 68.929 ms
Loss rate: 22.00%
-- Flow 2:
Average throughput: 39.52 Mbit/s
95th percentile per-packet one-way delay: 69.630 ms
Loss rate: 34.75%
-- Flow 3:
Average throughput: 20.62 Mbit/s
95th percentile per-packet one-way delay: 70.005 ms
Loss rate: 37.25%

Run 1: Report of FillP — Data Link

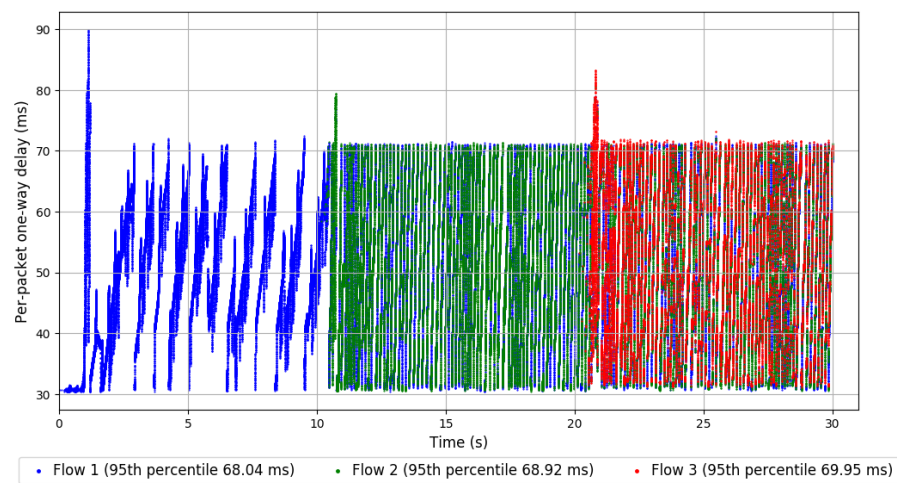
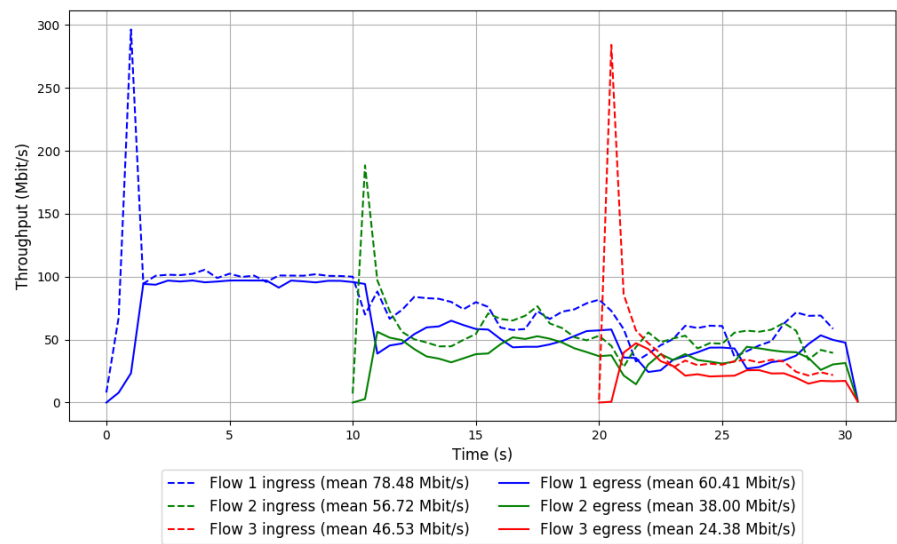


Run 2: Statistics of FillP

Start at: 2018-07-03 18:54:51
End at: 2018-07-03 18:55:21
Local clock offset: -2.838 ms
Remote clock offset: -1.634 ms

Below is generated by plot.py at 2018-07-03 22:54:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.74 Mbit/s
95th percentile per-packet one-way delay: 68.563 ms
Loss rate: 28.74%
-- Flow 1:
Average throughput: 60.41 Mbit/s
95th percentile per-packet one-way delay: 68.037 ms
Loss rate: 22.97%
-- Flow 2:
Average throughput: 38.00 Mbit/s
95th percentile per-packet one-way delay: 68.917 ms
Loss rate: 32.97%
-- Flow 3:
Average throughput: 24.38 Mbit/s
95th percentile per-packet one-way delay: 69.954 ms
Loss rate: 47.70%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-07-03 19:17:36

End at: 2018-07-03 19:18:06

Local clock offset: -2.637 ms

Remote clock offset: 5.943 ms

Below is generated by plot.py at 2018-07-03 22:55:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.60 Mbit/s

95th percentile per-packet one-way delay: 68.701 ms

Loss rate: 30.00%

-- Flow 1:

Average throughput: 61.54 Mbit/s

95th percentile per-packet one-way delay: 68.219 ms

Loss rate: 23.64%

-- Flow 2:

Average throughput: 36.18 Mbit/s

95th percentile per-packet one-way delay: 69.088 ms

Loss rate: 35.62%

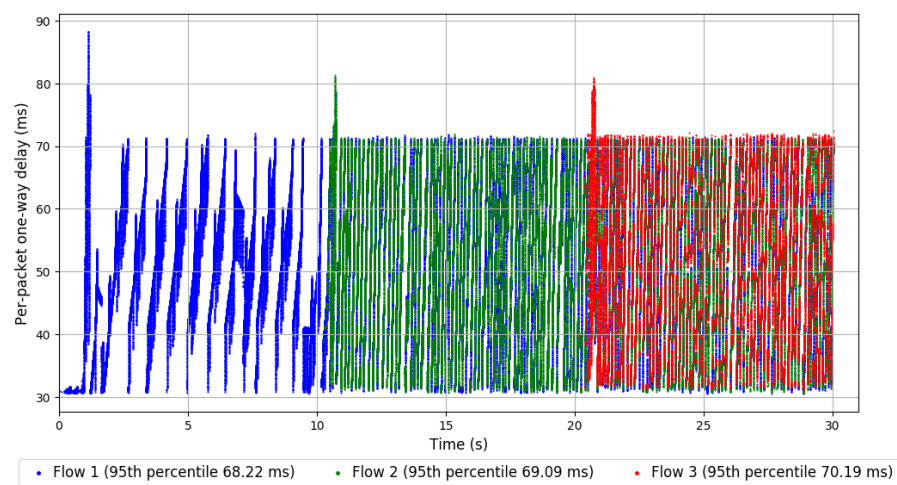
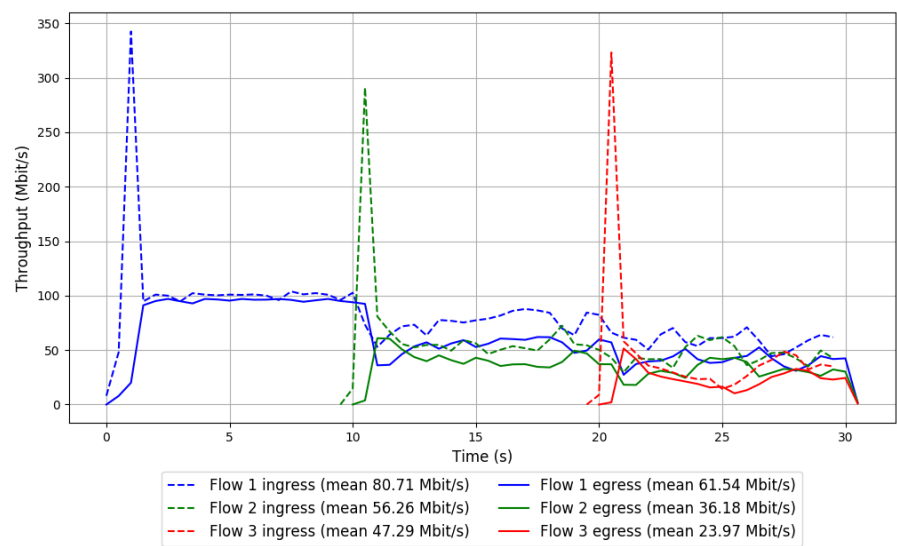
-- Flow 3:

Average throughput: 23.97 Mbit/s

95th percentile per-packet one-way delay: 70.193 ms

Loss rate: 49.26%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-07-03 19:40:23

End at: 2018-07-03 19:40:53

Local clock offset: -0.676 ms

Remote clock offset: 9.221 ms

Below is generated by plot.py at 2018-07-03 22:55:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.30 Mbit/s

95th percentile per-packet one-way delay: 69.041 ms

Loss rate: 26.23%

-- Flow 1:

Average throughput: 62.15 Mbit/s

95th percentile per-packet one-way delay: 68.841 ms

Loss rate: 21.10%

-- Flow 2:

Average throughput: 36.22 Mbit/s

95th percentile per-packet one-way delay: 69.611 ms

Loss rate: 35.53%

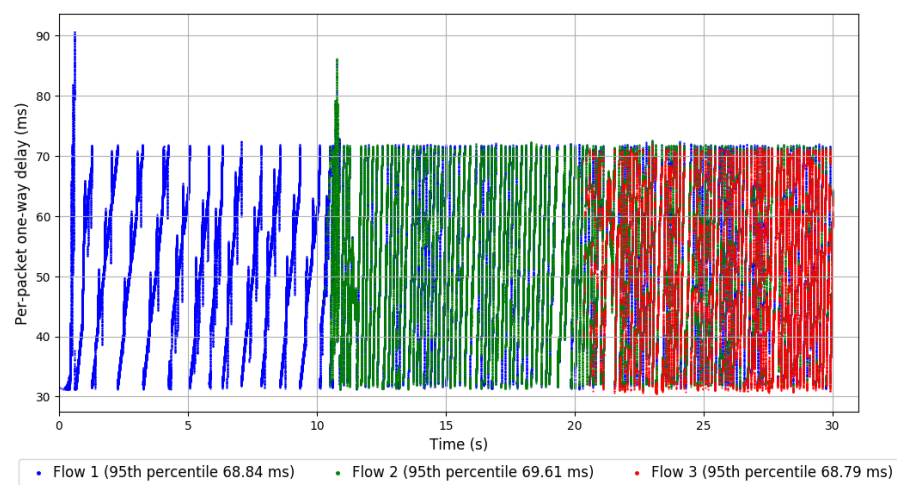
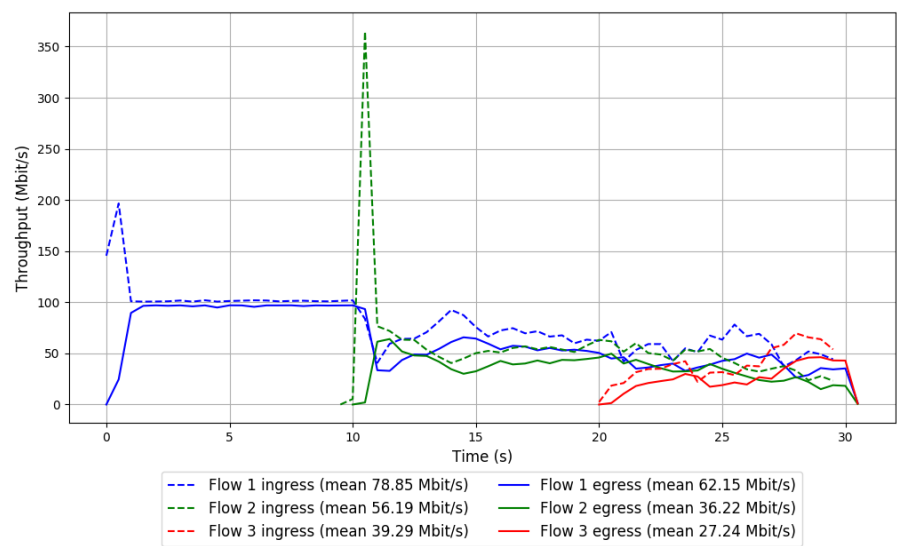
-- Flow 3:

Average throughput: 27.24 Mbit/s

95th percentile per-packet one-way delay: 68.793 ms

Loss rate: 30.52%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/fillp

Run 5: Report of FillP — Data Link

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Figure is missing

Run 6: Statistics of FillP

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/fillp

Run 6: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of FillP

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/fillp

Run 7: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of FillP

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/fillp

Run 8: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of FillP

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/fillp

Run 9: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of FillP

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/fillp

Run 10: Report of FillP — Data Link

Figure is missing

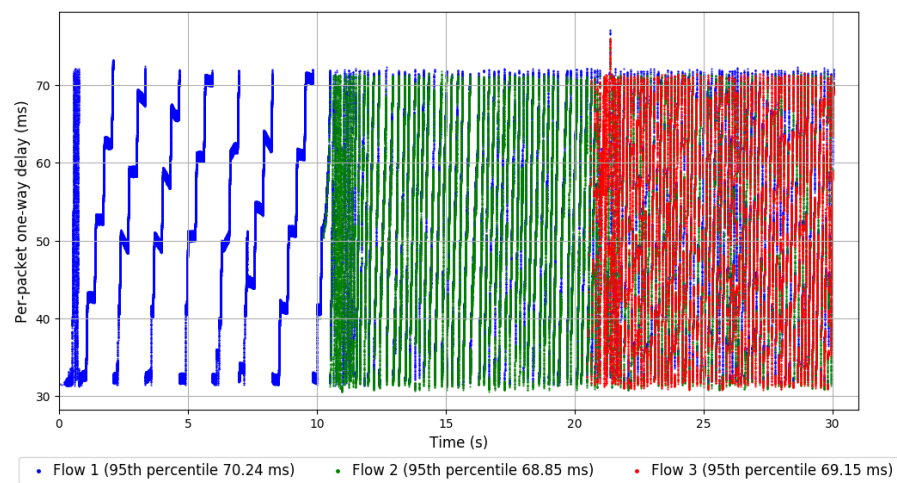
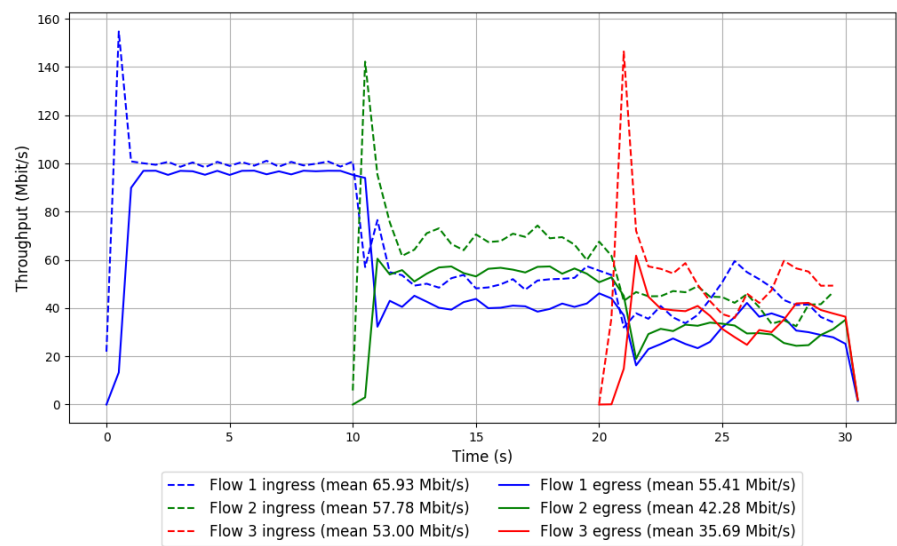
Figure is missing

Run 1: Statistics of FillP-Sheep

Start at: 2018-07-03 18:40:10
End at: 2018-07-03 18:40:40
Local clock offset: -2.974 ms
Remote clock offset: -1.811 ms

Below is generated by plot.py at 2018-07-03 22:55:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.16 Mbit/s
95th percentile per-packet one-way delay: 69.558 ms
Loss rate: 21.88%
-- Flow 1:
Average throughput: 55.41 Mbit/s
95th percentile per-packet one-way delay: 70.236 ms
Loss rate: 15.86%
-- Flow 2:
Average throughput: 42.28 Mbit/s
95th percentile per-packet one-way delay: 68.850 ms
Loss rate: 26.75%
-- Flow 3:
Average throughput: 35.69 Mbit/s
95th percentile per-packet one-way delay: 69.153 ms
Loss rate: 33.84%

Run 1: Report of FillP-Sheep — Data Link

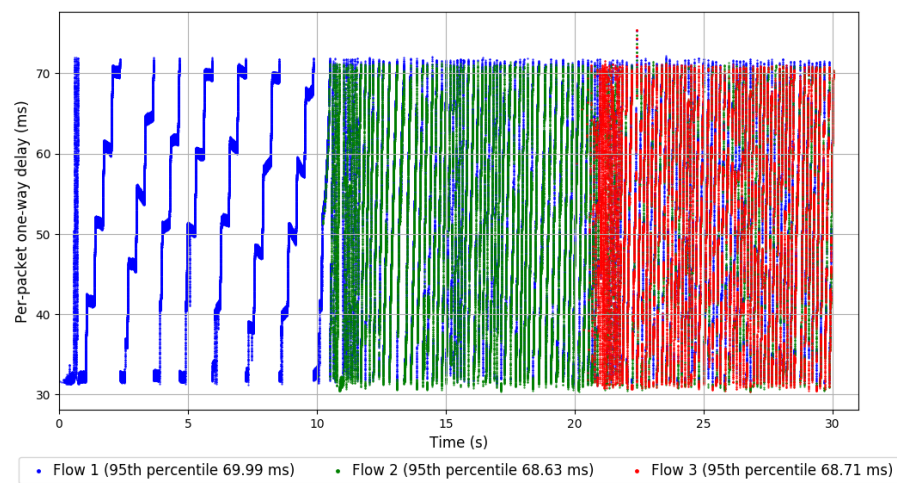
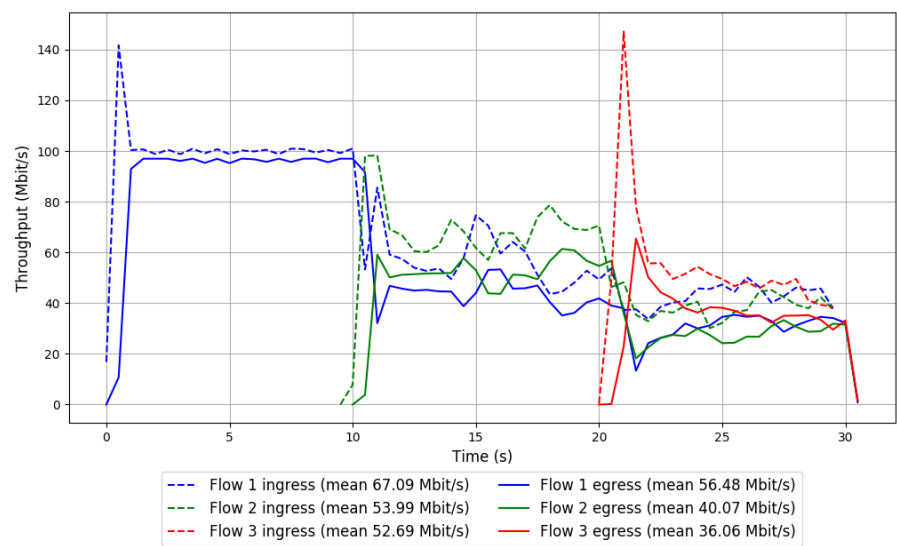


Run 2: Statistics of FillP-Sheep

Start at: 2018-07-03 19:02:55
End at: 2018-07-03 19:03:25
Local clock offset: -2.816 ms
Remote clock offset: -0.345 ms

Below is generated by plot.py at 2018-07-03 22:55:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.15 Mbit/s
95th percentile per-packet one-way delay: 69.737 ms
Loss rate: 20.98%
-- Flow 1:
Average throughput: 56.48 Mbit/s
95th percentile per-packet one-way delay: 69.988 ms
Loss rate: 15.73%
-- Flow 2:
Average throughput: 40.07 Mbit/s
95th percentile per-packet one-way delay: 68.629 ms
Loss rate: 25.64%
-- Flow 3:
Average throughput: 36.06 Mbit/s
95th percentile per-packet one-way delay: 68.712 ms
Loss rate: 31.49%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-07-03 19:25:40

End at: 2018-07-03 19:26:10

Local clock offset: -2.519 ms

Remote clock offset: 7.434 ms

Below is generated by plot.py at 2018-07-03 22:55:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.71 Mbit/s

95th percentile per-packet one-way delay: 69.996 ms

Loss rate: 20.85%

-- Flow 1:

Average throughput: 57.45 Mbit/s

95th percentile per-packet one-way delay: 70.426 ms

Loss rate: 15.46%

-- Flow 2:

Average throughput: 38.64 Mbit/s

95th percentile per-packet one-way delay: 68.801 ms

Loss rate: 25.81%

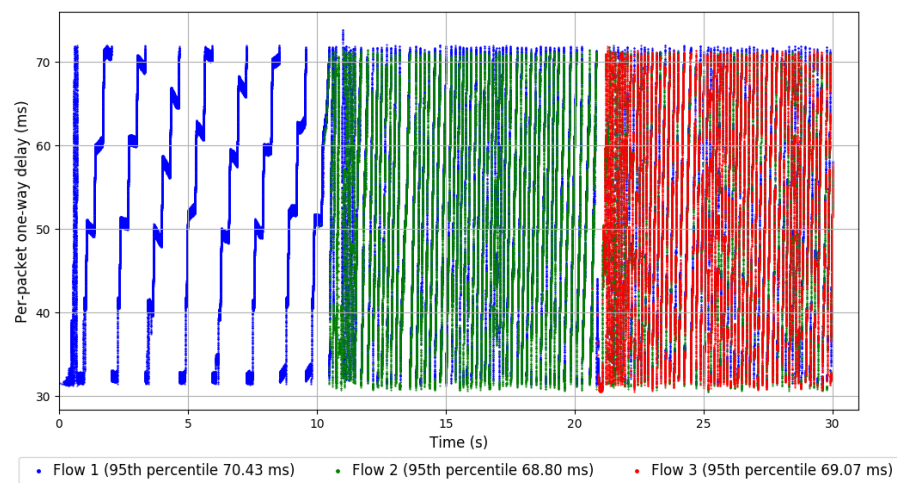
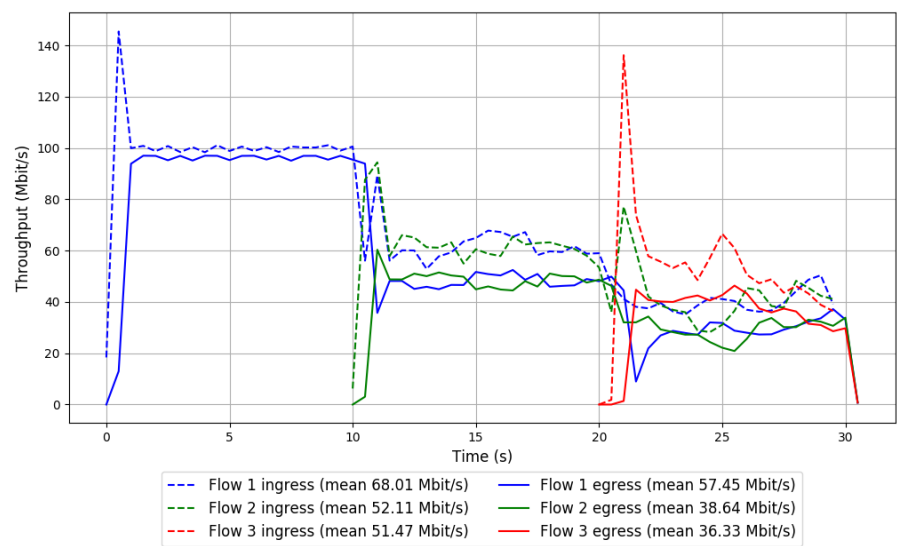
-- Flow 3:

Average throughput: 36.33 Mbit/s

95th percentile per-packet one-way delay: 69.070 ms

Loss rate: 32.26%

Run 3: Report of FillP-Sheep — Data Link

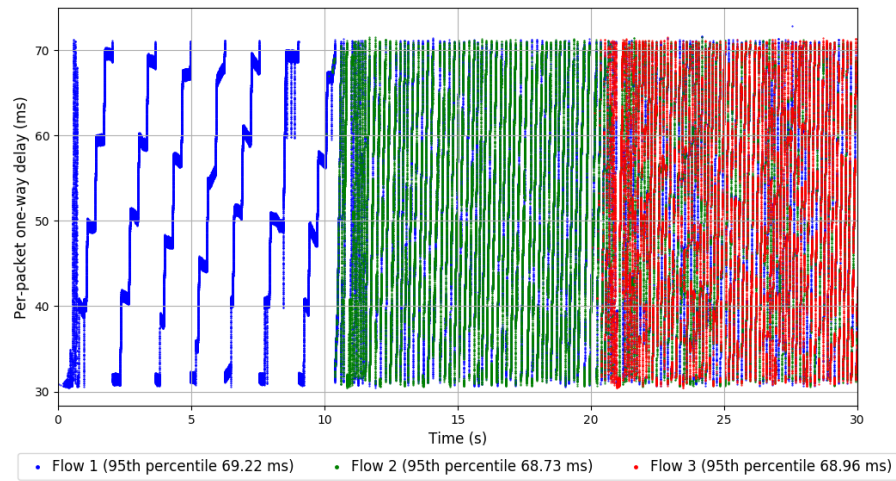
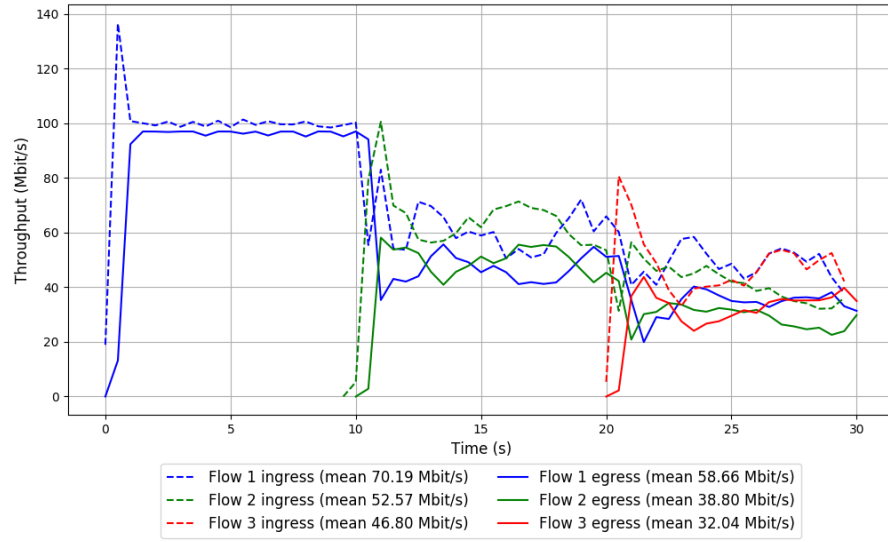


Run 4: Statistics of FillP-Sheep

Start at: 2018-07-03 19:48:28
End at: 2018-07-03 19:48:58
Local clock offset: 0.326 ms
Remote clock offset: 10.213 ms

Below is generated by plot.py at 2018-07-03 22:55:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.11 Mbit/s
95th percentile per-packet one-way delay: 69.138 ms
Loss rate: 21.22%
-- Flow 1:
Average throughput: 58.66 Mbit/s
95th percentile per-packet one-way delay: 69.218 ms
Loss rate: 16.40%
-- Flow 2:
Average throughput: 38.80 Mbit/s
95th percentile per-packet one-way delay: 68.727 ms
Loss rate: 26.27%
-- Flow 3:
Average throughput: 32.04 Mbit/s
95th percentile per-packet one-way delay: 68.962 ms
Loss rate: 31.57%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/fillp

Run 5: Report of FillP-Sheep — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of FillP-Sheep

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/fillp

Run 6: Report of FillP-Sheep — Data Link

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Figure is missing

Run 7: Statistics of FillP-Sheep

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/fillp

Run 7: Report of FillP-Sheep — Data Link

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Figure is missing

Run 8: Statistics of FillP-Sheep

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/fillp

Run 8: Report of FillP-Sheep — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of FillP-Sheep

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/fillp

Run 9: Report of FillP-Sheep — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of FillP-Sheep

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/fillp

Run 10: Report of FillP-Sheep — Data Link

Figure is missing

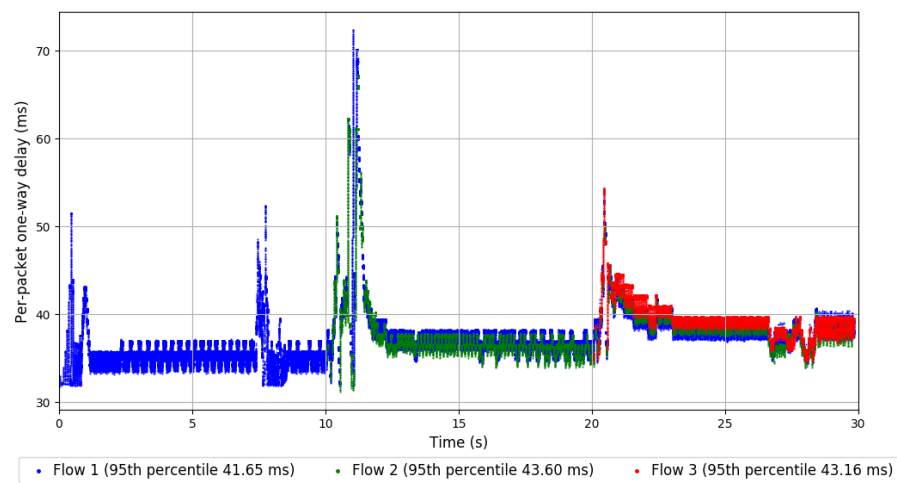
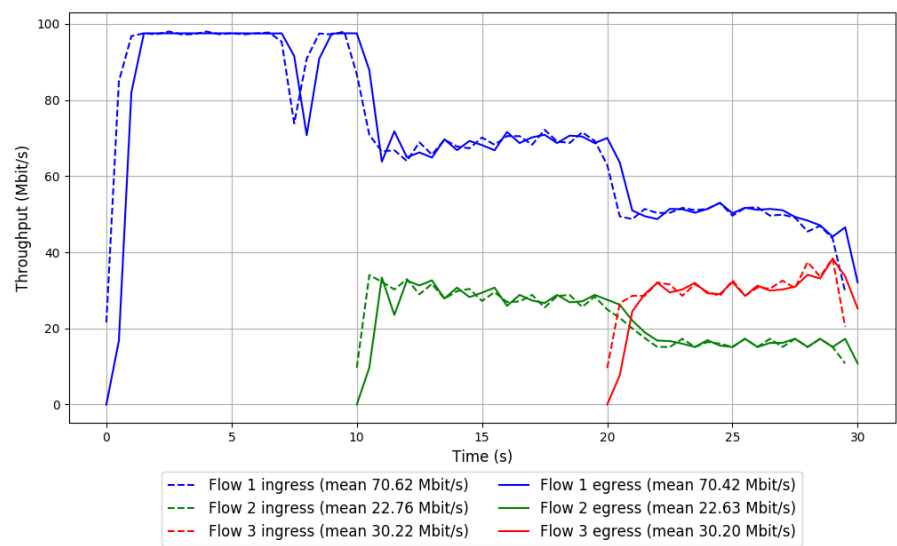
Figure is missing

Run 1: Statistics of Indigo

Start at: 2018-07-03 18:34:43
End at: 2018-07-03 18:35:13
Local clock offset: -3.107 ms
Remote clock offset: -1.538 ms

Below is generated by plot.py at 2018-07-03 22:55:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.31 Mbit/s
95th percentile per-packet one-way delay: 42.380 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 70.42 Mbit/s
95th percentile per-packet one-way delay: 41.651 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 22.63 Mbit/s
95th percentile per-packet one-way delay: 43.601 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 30.20 Mbit/s
95th percentile per-packet one-way delay: 43.157 ms
Loss rate: 0.00%

Run 1: Report of Indigo — Data Link

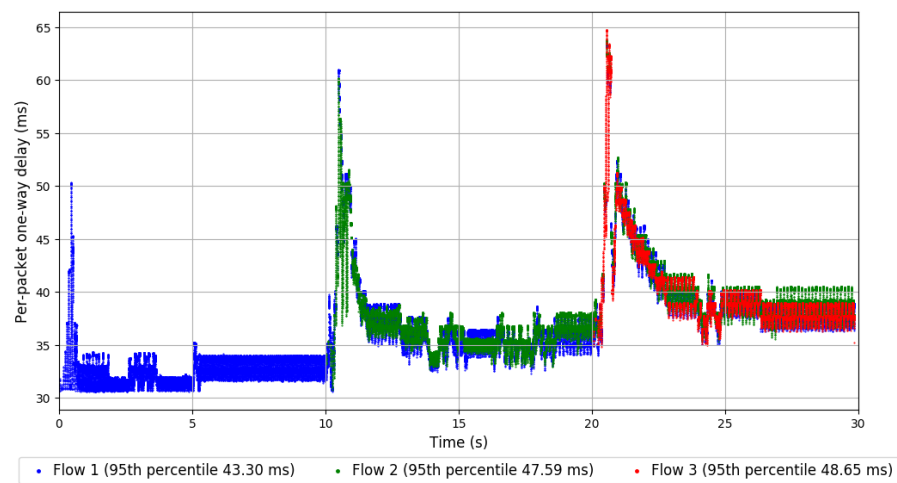
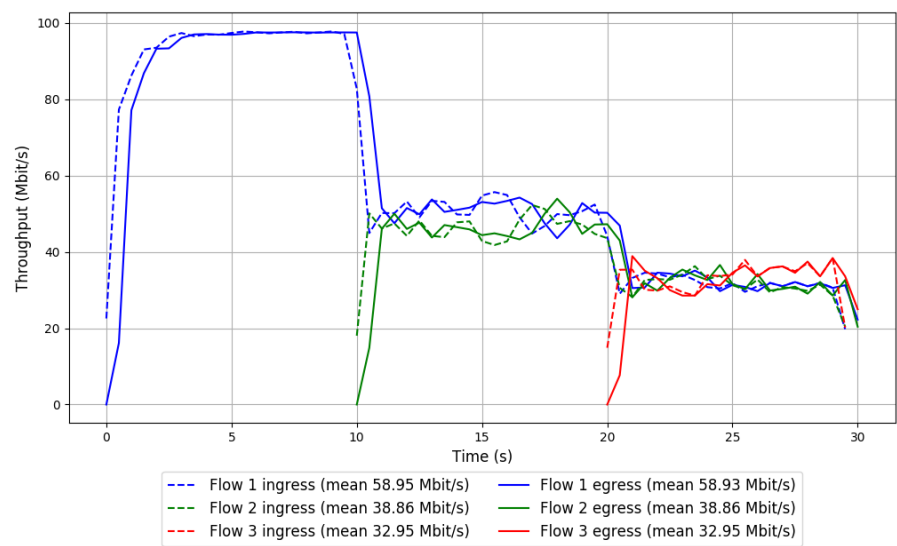


Run 2: Statistics of Indigo

Start at: 2018-07-03 18:57:30
End at: 2018-07-03 18:58:00
Local clock offset: -2.915 ms
Remote clock offset: -1.714 ms

Below is generated by plot.py at 2018-07-03 22:55:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.50 Mbit/s
95th percentile per-packet one-way delay: 45.463 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 58.93 Mbit/s
95th percentile per-packet one-way delay: 43.303 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 38.86 Mbit/s
95th percentile per-packet one-way delay: 47.593 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 32.95 Mbit/s
95th percentile per-packet one-way delay: 48.650 ms
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-07-03 19:20:14

End at: 2018-07-03 19:20:44

Local clock offset: -2.534 ms

Remote clock offset: 6.286 ms

Below is generated by plot.py at 2018-07-03 22:56:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.85 Mbit/s

95th percentile per-packet one-way delay: 41.325 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 65.42 Mbit/s

95th percentile per-packet one-way delay: 39.710 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 28.68 Mbit/s

95th percentile per-packet one-way delay: 42.636 ms

Loss rate: 0.47%

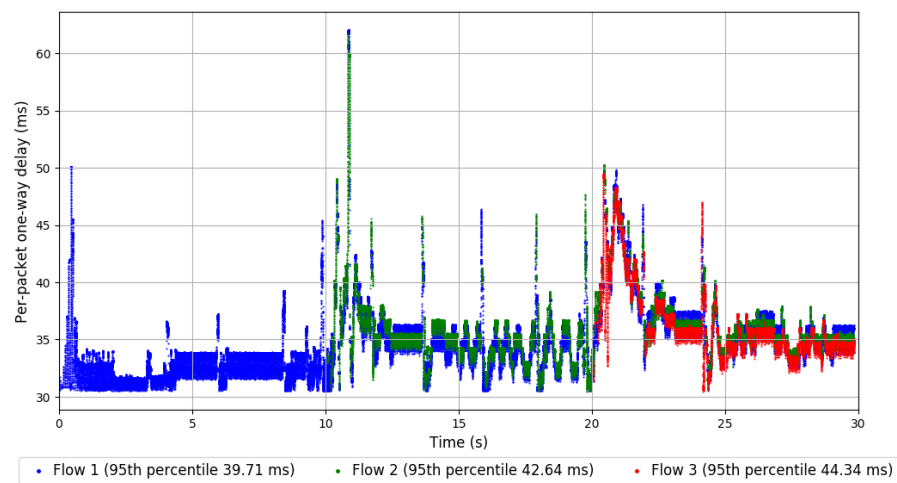
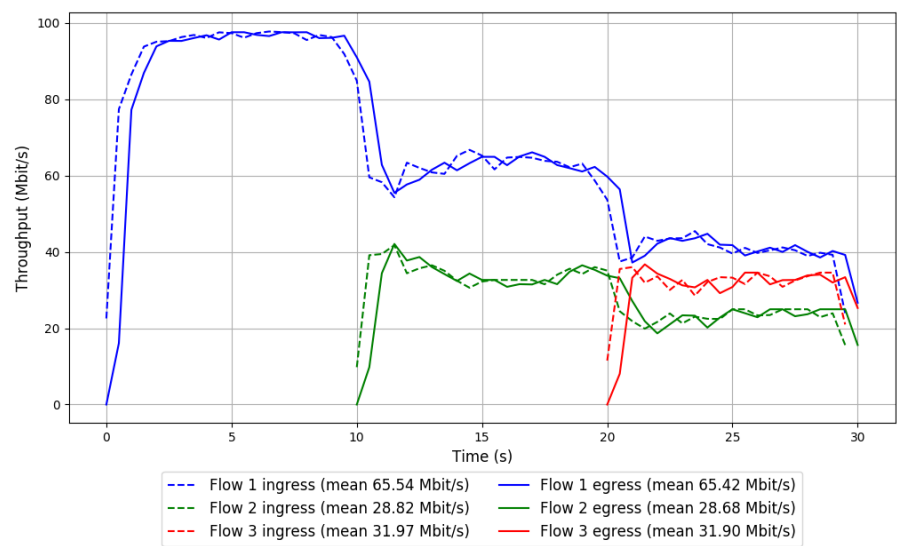
-- Flow 3:

Average throughput: 31.90 Mbit/s

95th percentile per-packet one-way delay: 44.343 ms

Loss rate: 0.18%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-07-03 19:43:02

End at: 2018-07-03 19:43:32

Local clock offset: -0.266 ms

Remote clock offset: 9.625 ms

Below is generated by plot.py at 2018-07-03 22:56:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.54 Mbit/s

95th percentile per-packet one-way delay: 48.150 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 57.74 Mbit/s

95th percentile per-packet one-way delay: 42.860 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 39.16 Mbit/s

95th percentile per-packet one-way delay: 50.531 ms

Loss rate: 0.03%

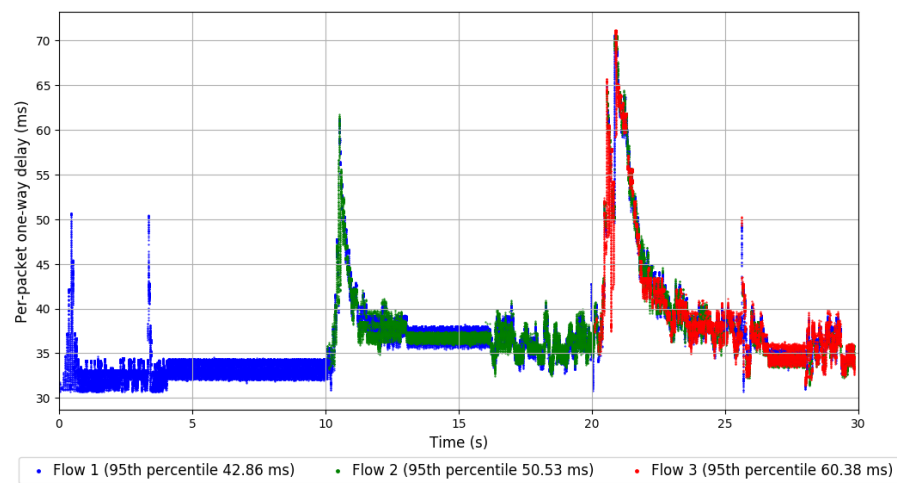
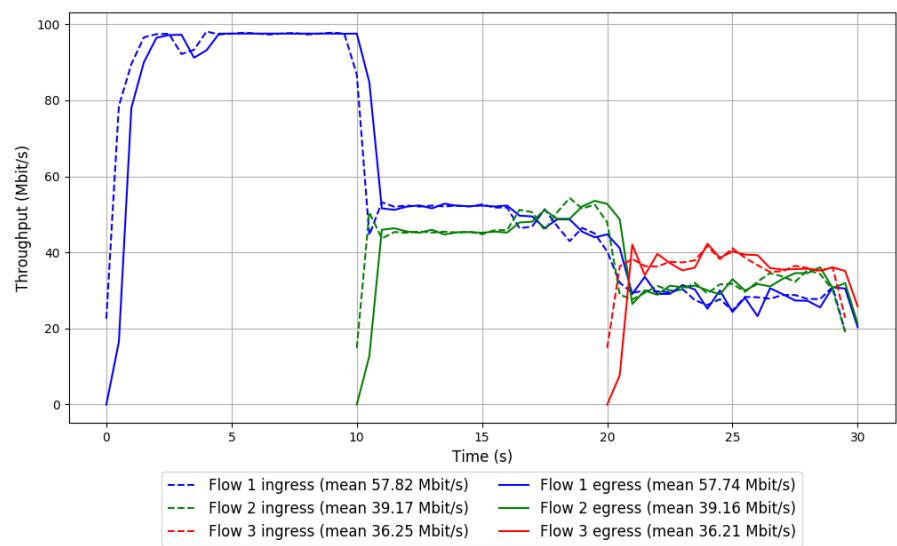
-- Flow 3:

Average throughput: 36.21 Mbit/s

95th percentile per-packet one-way delay: 60.379 ms

Loss rate: 0.13%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/indig

Run 5: Report of Indigo — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of Indigo

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/indig

Run 6: Report of Indigo — Data Link

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Figure is missing

Run 7: Statistics of Indigo

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/indig

Run 7: Report of Indigo — Data Link

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Figure is missing

Run 8: Statistics of Indigo

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/indig

Run 8: Report of Indigo — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of Indigo

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/indig

Run 9: Report of Indigo — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of Indigo

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/indig

Run 10: Report of Indigo — Data Link

Figure is missing

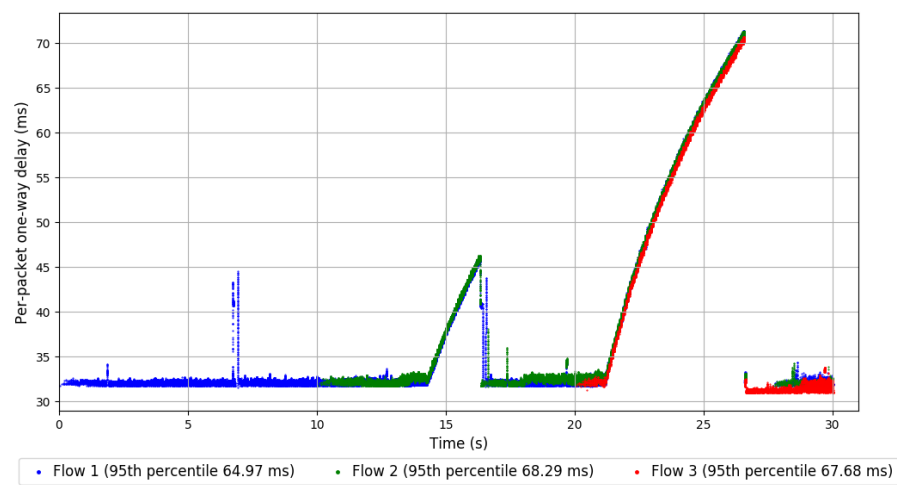
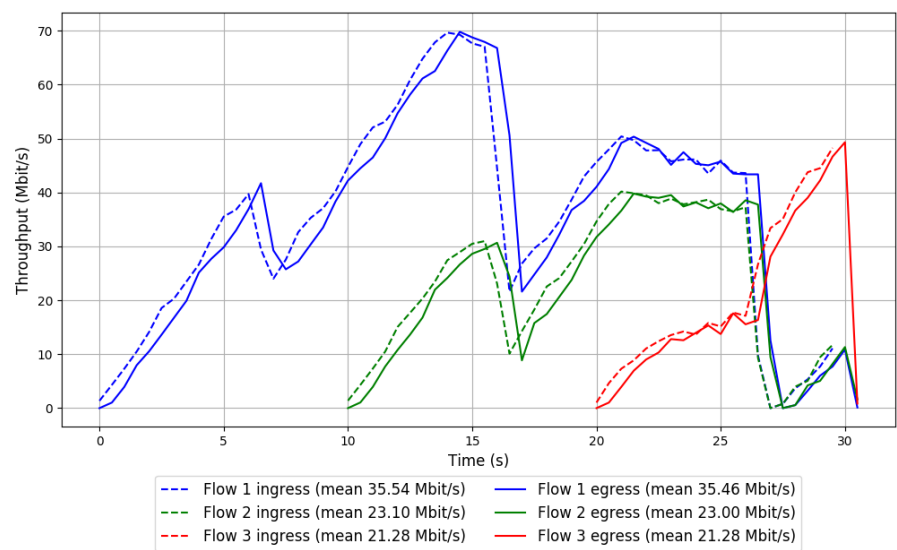
Figure is missing

Run 1: Statistics of LEDBAT

Start at: 2018-07-03 18:26:48
End at: 2018-07-03 18:27:18
Local clock offset: -2.81 ms
Remote clock offset: -1.768 ms

Below is generated by plot.py at 2018-07-03 22:56:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 57.85 Mbit/s
95th percentile per-packet one-way delay: 66.671 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 35.46 Mbit/s
95th percentile per-packet one-way delay: 64.972 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 23.00 Mbit/s
95th percentile per-packet one-way delay: 68.292 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 21.28 Mbit/s
95th percentile per-packet one-way delay: 67.682 ms
Loss rate: 0.00%

Run 1: Report of LEDBAT — Data Link

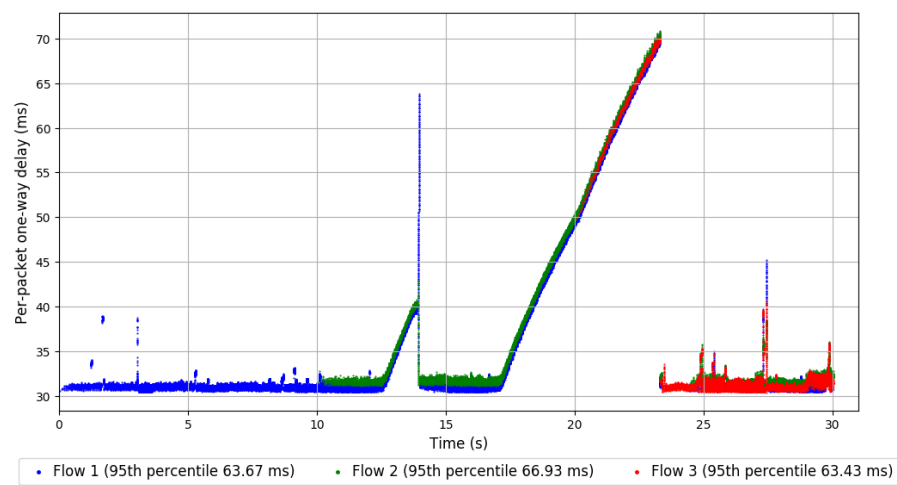
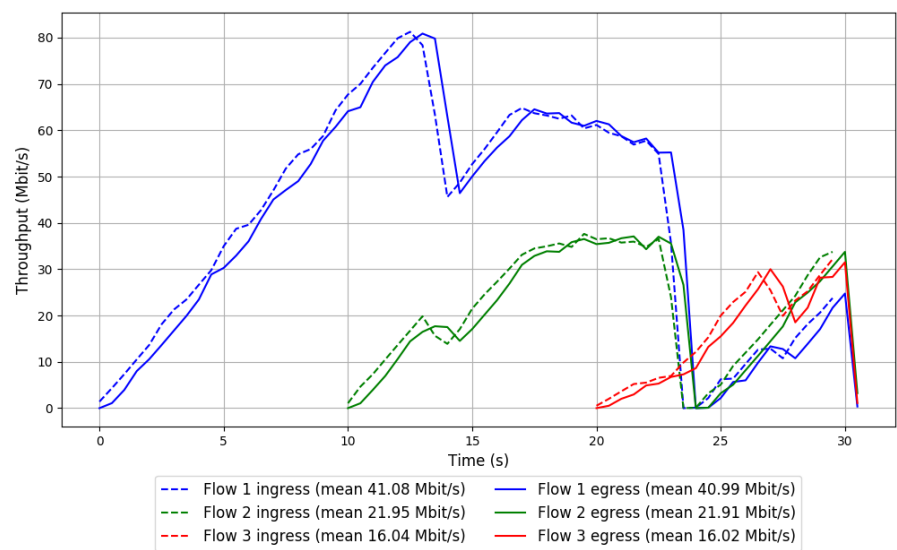


Run 2: Statistics of LEDBAT

Start at: 2018-07-03 18:49:35
End at: 2018-07-03 18:50:05
Local clock offset: -2.942 ms
Remote clock offset: -1.958 ms

Below is generated by plot.py at 2018-07-03 22:56:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 60.87 Mbit/s
95th percentile per-packet one-way delay: 64.779 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 40.99 Mbit/s
95th percentile per-packet one-way delay: 63.671 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 21.91 Mbit/s
95th percentile per-packet one-way delay: 66.930 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 16.02 Mbit/s
95th percentile per-packet one-way delay: 63.429 ms
Loss rate: 0.29%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-07-03 19:12:19

End at: 2018-07-03 19:12:49

Local clock offset: -2.601 ms

Remote clock offset: 4.153 ms

Below is generated by plot.py at 2018-07-03 22:56:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.80 Mbit/s

95th percentile per-packet one-way delay: 66.211 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 43.23 Mbit/s

95th percentile per-packet one-way delay: 66.410 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 19.23 Mbit/s

95th percentile per-packet one-way delay: 67.234 ms

Loss rate: 0.72%

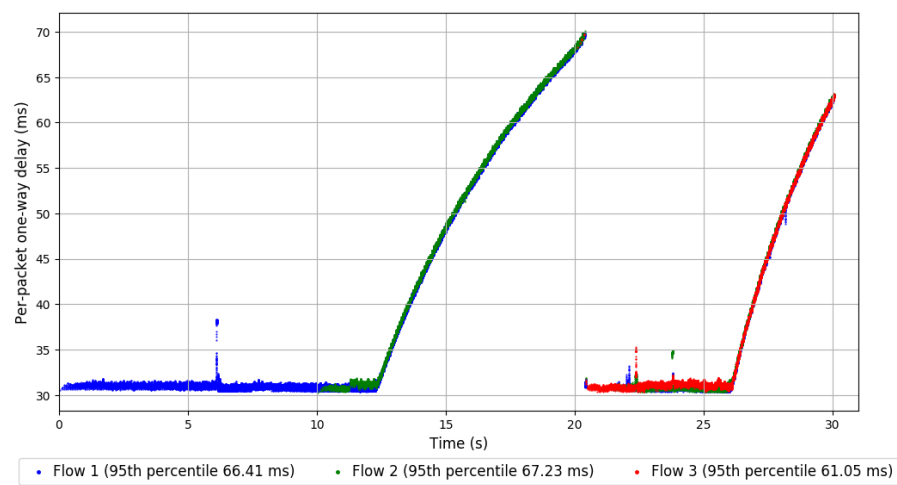
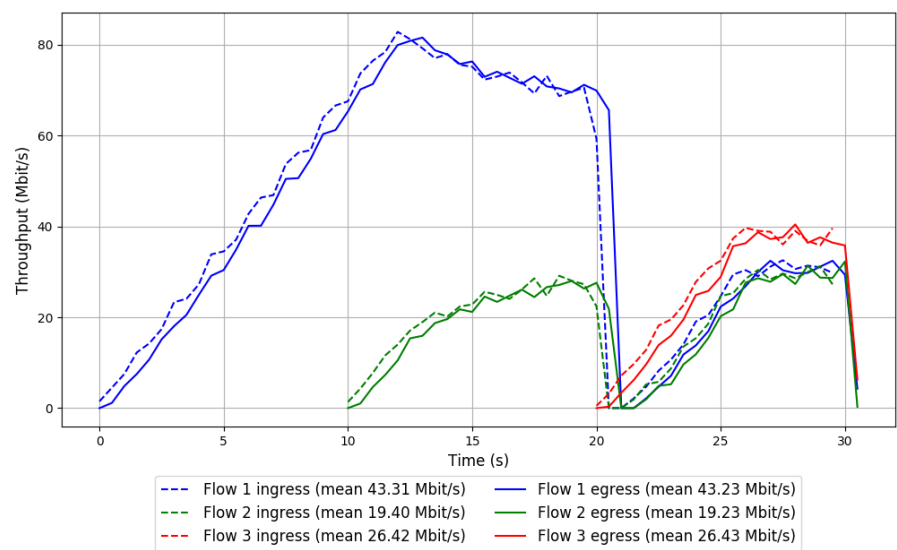
-- Flow 3:

Average throughput: 26.43 Mbit/s

95th percentile per-packet one-way delay: 61.051 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-07-03 19:35:06

End at: 2018-07-03 19:35:36

Local clock offset: -2.029 ms

Remote clock offset: 8.537 ms

Below is generated by plot.py at 2018-07-03 22:56:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.15 Mbit/s

95th percentile per-packet one-way delay: 67.194 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 41.84 Mbit/s

95th percentile per-packet one-way delay: 67.349 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 17.93 Mbit/s

95th percentile per-packet one-way delay: 67.729 ms

Loss rate: 0.76%

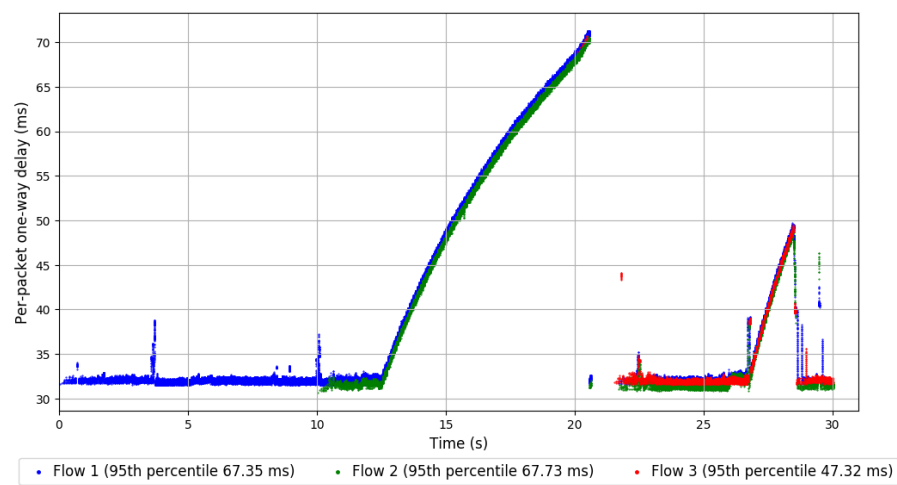
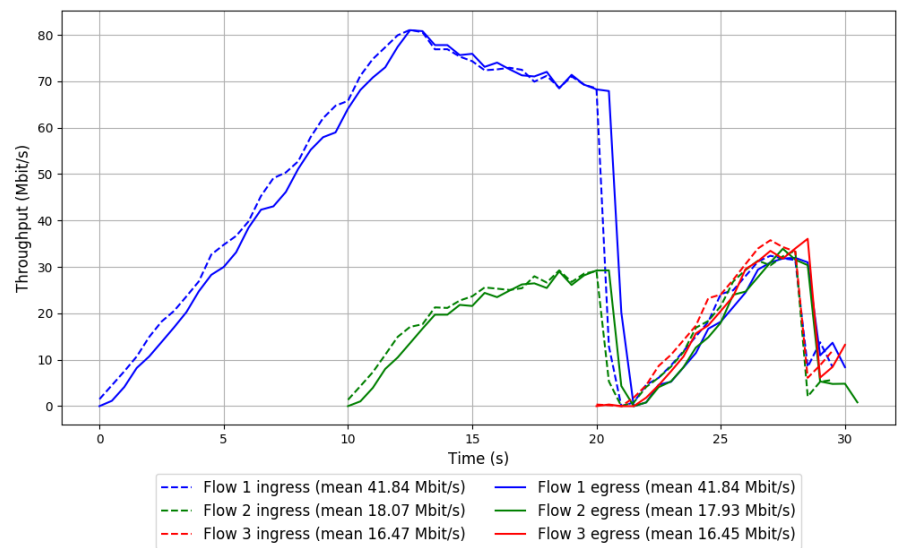
-- Flow 3:

Average throughput: 16.45 Mbit/s

95th percentile per-packet one-way delay: 47.319 ms

Loss rate: 0.47%

Run 4: Report of LEDBAT — Data Link

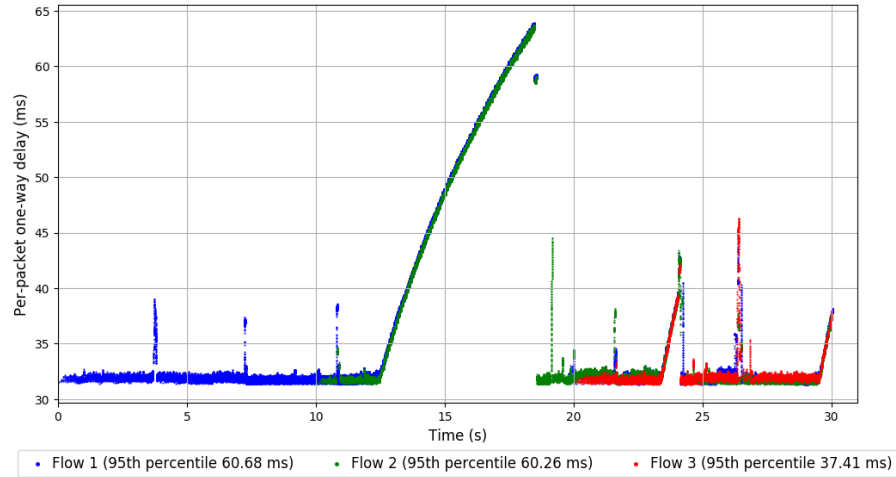
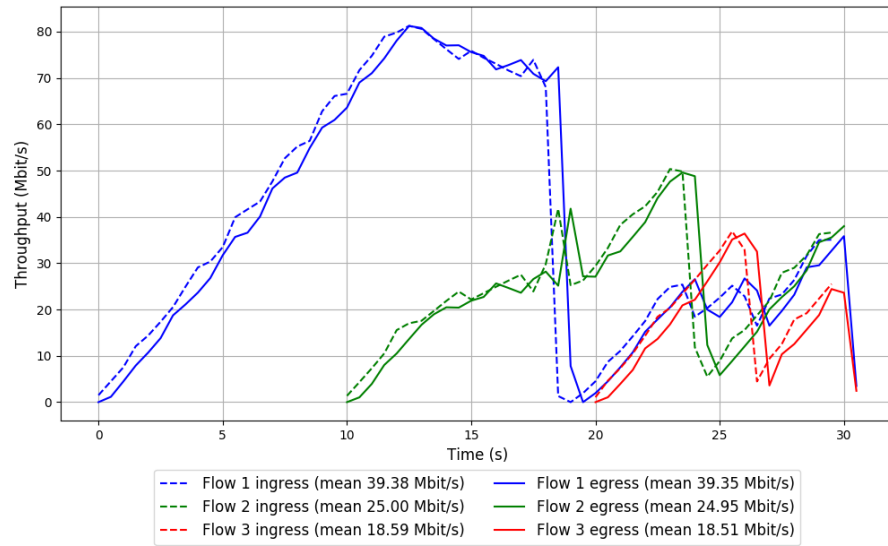


Run 5: Statistics of LEDBAT

Start at: 2018-07-03 19:57:54
End at: 2018-07-03 19:58:24
Local clock offset: 0.973 ms
Remote clock offset: 11.552 ms

Below is generated by plot.py at 2018-07-03 22:56:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.09 Mbit/s
95th percentile per-packet one-way delay: 60.204 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 39.35 Mbit/s
95th percentile per-packet one-way delay: 60.683 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 24.95 Mbit/s
95th percentile per-packet one-way delay: 60.261 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 18.51 Mbit/s
95th percentile per-packet one-way delay: 37.405 ms
Loss rate: 0.35%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/ledbat

Run 6: Report of LEDBAT — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of LEDBAT

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/ledbat

Run 7: Report of LEDBAT — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of LEDBAT

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/ledbat

Run 8: Report of LEDBAT — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of LEDBAT

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/ledbat

Run 9: Report of LEDBAT — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of LEDBAT

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/ledbat

Run 10: Report of LEDBAT — Data Link

Figure is missing

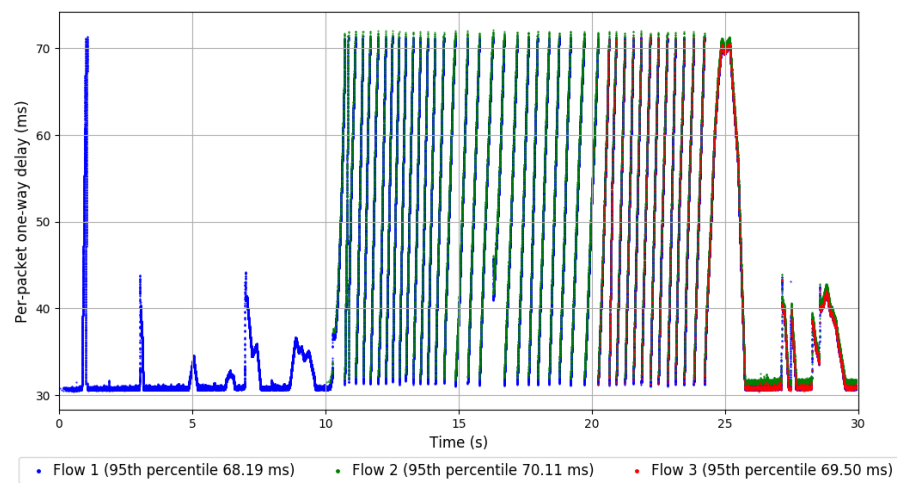
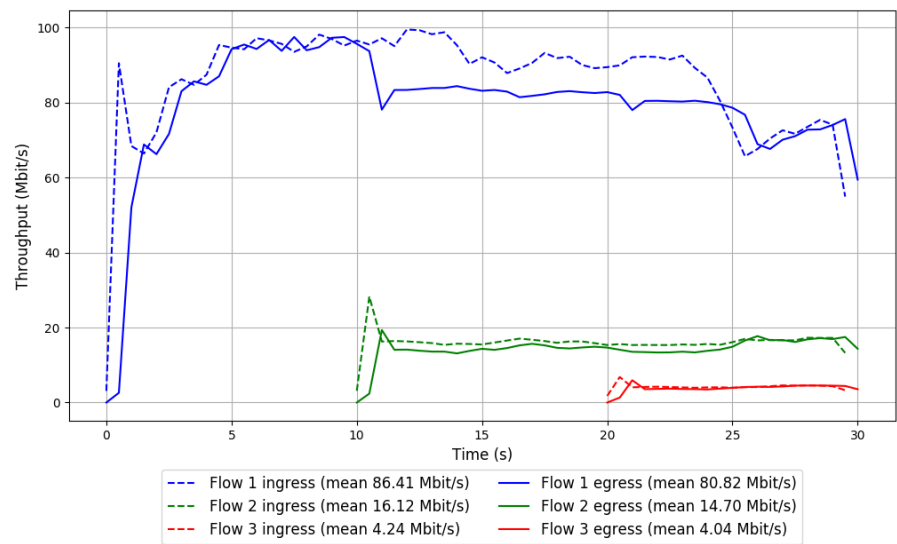
Figure is missing

Run 1: Statistics of PCC-Allegro

Start at: 2018-07-03 18:36:05
End at: 2018-07-03 18:36:35
Local clock offset: -3.052 ms
Remote clock offset: -2.094 ms

Below is generated by plot.py at 2018-07-03 22:57:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.93 Mbit/s
95th percentile per-packet one-way delay: 68.529 ms
Loss rate: 6.70%
-- Flow 1:
Average throughput: 80.82 Mbit/s
95th percentile per-packet one-way delay: 68.189 ms
Loss rate: 6.47%
-- Flow 2:
Average throughput: 14.70 Mbit/s
95th percentile per-packet one-way delay: 70.107 ms
Loss rate: 8.78%
-- Flow 3:
Average throughput: 4.04 Mbit/s
95th percentile per-packet one-way delay: 69.499 ms
Loss rate: 5.04%

Run 1: Report of PCC-Allegro — Data Link

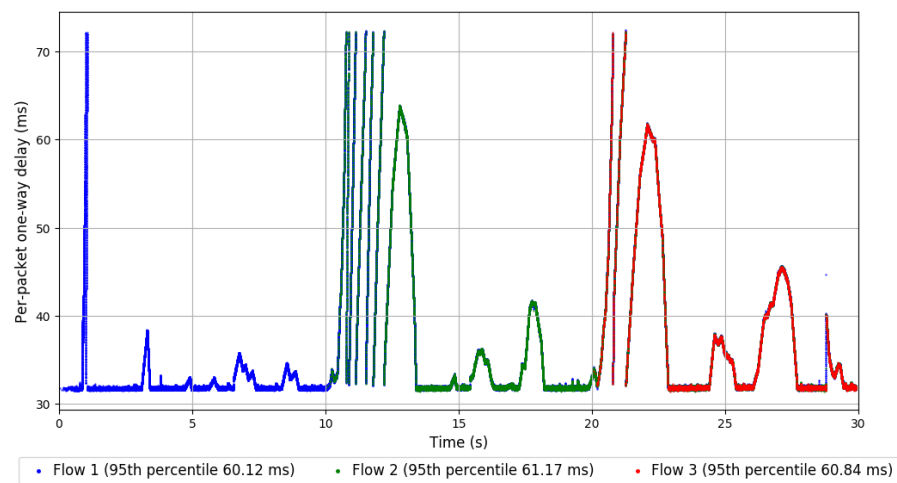
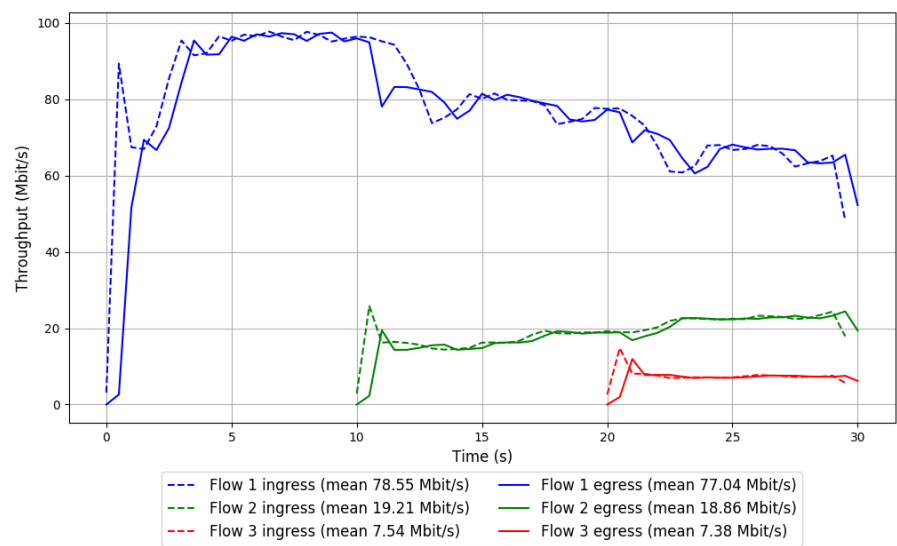


Run 2: Statistics of PCC-Allegro

Start at: 2018-07-03 18:58:51
End at: 2018-07-03 18:59:21
Local clock offset: -2.927 ms
Remote clock offset: -1.414 ms

Below is generated by plot.py at 2018-07-03 22:57:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.01 Mbit/s
95th percentile per-packet one-way delay: 60.333 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 77.04 Mbit/s
95th percentile per-packet one-way delay: 60.124 ms
Loss rate: 1.93%
-- Flow 2:
Average throughput: 18.86 Mbit/s
95th percentile per-packet one-way delay: 61.171 ms
Loss rate: 1.78%
-- Flow 3:
Average throughput: 7.38 Mbit/s
95th percentile per-packet one-way delay: 60.835 ms
Loss rate: 2.17%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-03 19:21:36

End at: 2018-07-03 19:22:06

Local clock offset: -2.53 ms

Remote clock offset: 6.745 ms

Below is generated by plot.py at 2018-07-03 22:57:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.88 Mbit/s

95th percentile per-packet one-way delay: 67.350 ms

Loss rate: 6.84%

-- Flow 1:

Average throughput: 79.97 Mbit/s

95th percentile per-packet one-way delay: 67.080 ms

Loss rate: 6.15%

-- Flow 2:

Average throughput: 9.15 Mbit/s

95th percentile per-packet one-way delay: 68.925 ms

Loss rate: 9.03%

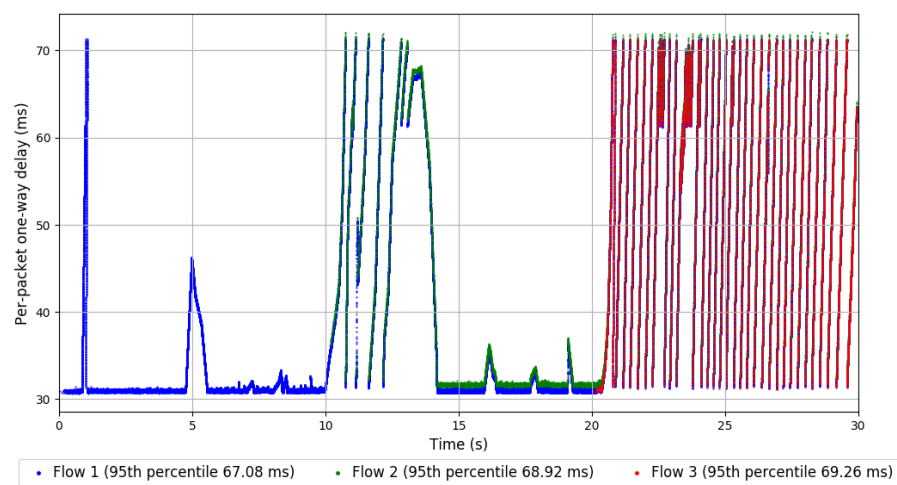
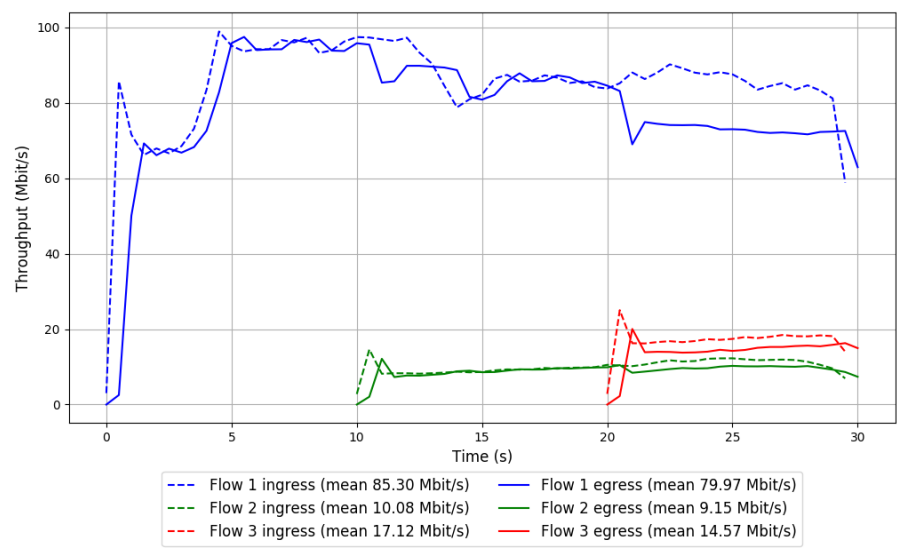
-- Flow 3:

Average throughput: 14.57 Mbit/s

95th percentile per-packet one-way delay: 69.264 ms

Loss rate: 14.64%

Run 3: Report of PCC-Allegro — Data Link

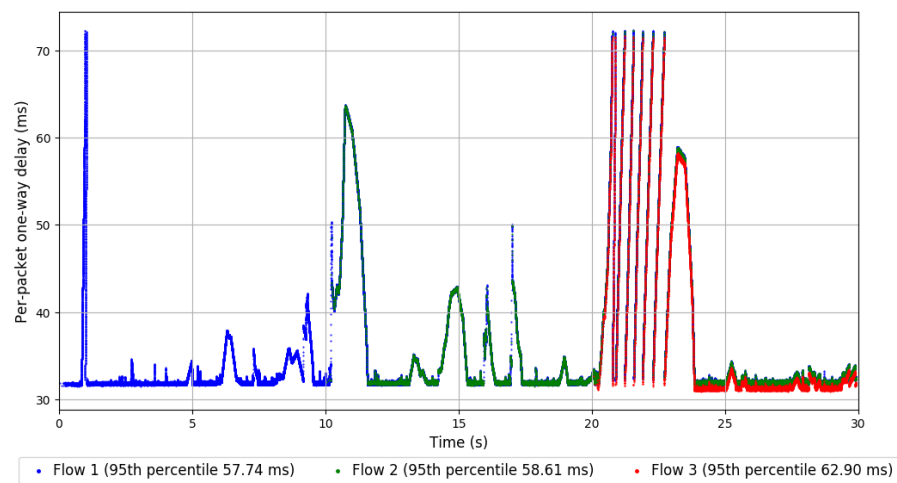
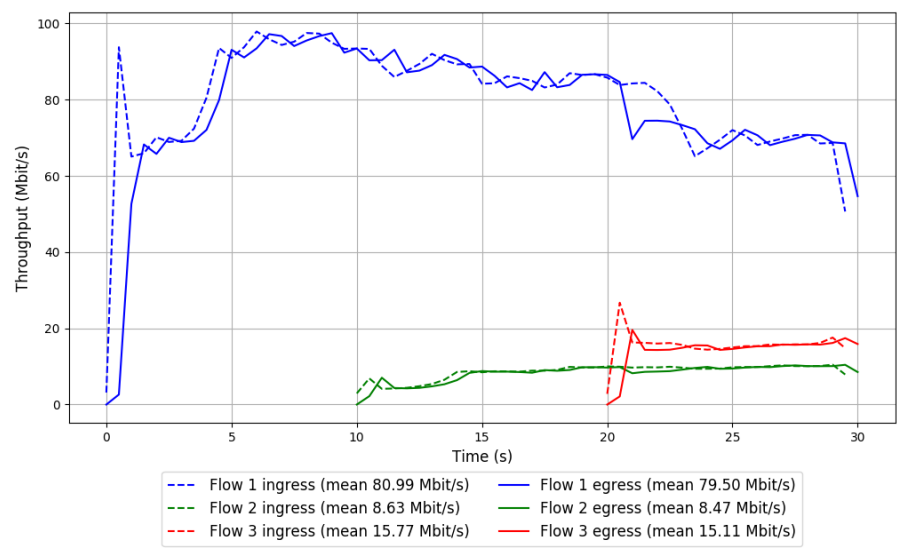


Run 4: Statistics of PCC-Allegro

Start at: 2018-07-03 19:44:23
End at: 2018-07-03 19:44:53
Local clock offset: -0.089 ms
Remote clock offset: 10.009 ms

Below is generated by plot.py at 2018-07-03 22:57:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.11 Mbit/s
95th percentile per-packet one-way delay: 57.993 ms
Loss rate: 1.97%
-- Flow 1:
Average throughput: 79.50 Mbit/s
95th percentile per-packet one-way delay: 57.741 ms
Loss rate: 1.84%
-- Flow 2:
Average throughput: 8.47 Mbit/s
95th percentile per-packet one-way delay: 58.612 ms
Loss rate: 1.76%
-- Flow 3:
Average throughput: 15.11 Mbit/s
95th percentile per-packet one-way delay: 62.897 ms
Loss rate: 4.19%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/pcc_s

Run 5: Report of PCC-Allegro — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Allegro

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/pcc_s

Run 6: Report of PCC-Allegro — Data Link

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Figure is missing

Run 7: Statistics of PCC-Allegro

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/pcc_s

Run 7: Report of PCC-Allegro — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Allegro

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/pcc_s

Run 8: Report of PCC-Allegro — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Allegro

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/pcc_s

Run 9: Report of PCC-Allegro — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Allegro

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/pcc_s

Run 10: Report of PCC-Allegro — Data Link

Figure is missing

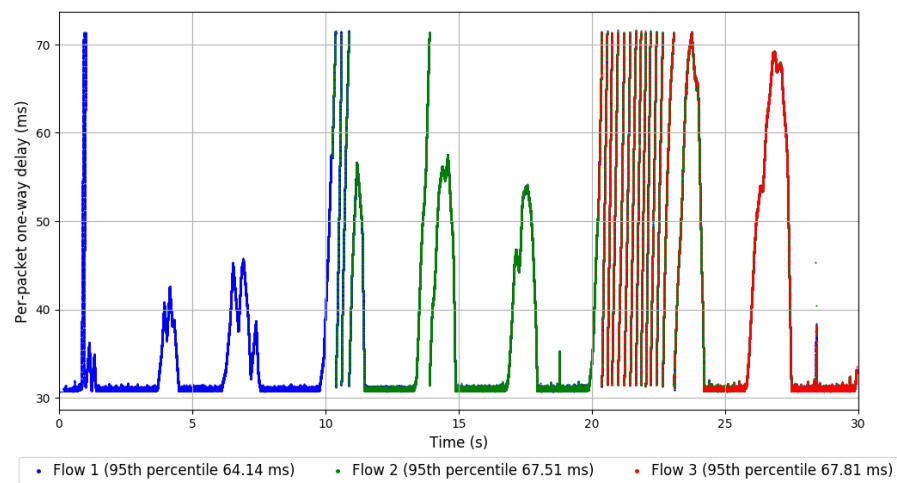
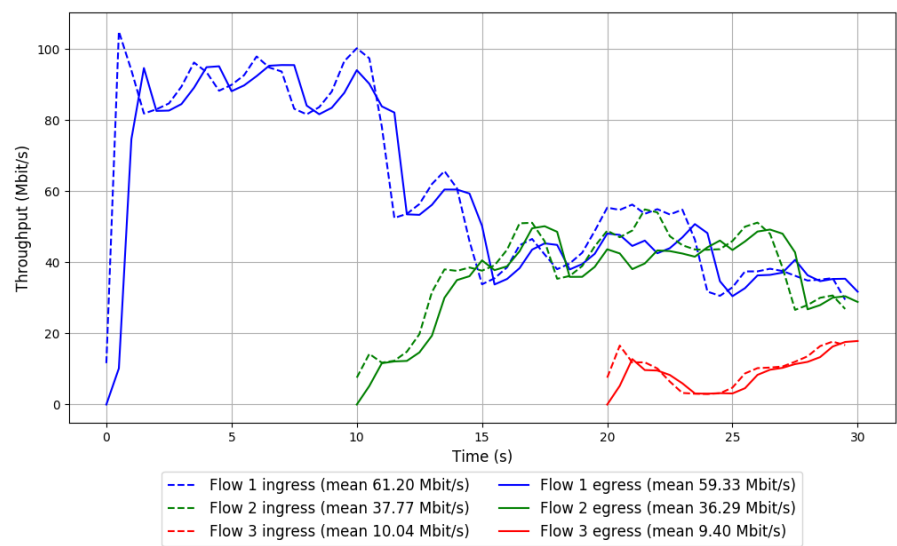
Figure is missing

```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-03 18:22:45
End at: 2018-07-03 18:23:15
Local clock offset: -2.671 ms
Remote clock offset: -2.114 ms

# Below is generated by plot.py at 2018-07-03 22:58:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.55 Mbit/s
95th percentile per-packet one-way delay: 66.082 ms
Loss rate: 3.44%
-- Flow 1:
Average throughput: 59.33 Mbit/s
95th percentile per-packet one-way delay: 64.139 ms
Loss rate: 3.06%
-- Flow 2:
Average throughput: 36.29 Mbit/s
95th percentile per-packet one-way delay: 67.514 ms
Loss rate: 3.98%
-- Flow 3:
Average throughput: 9.40 Mbit/s
95th percentile per-packet one-way delay: 67.807 ms
Loss rate: 6.36%
```


Run 1: Report of PCC-Expr — Data Link

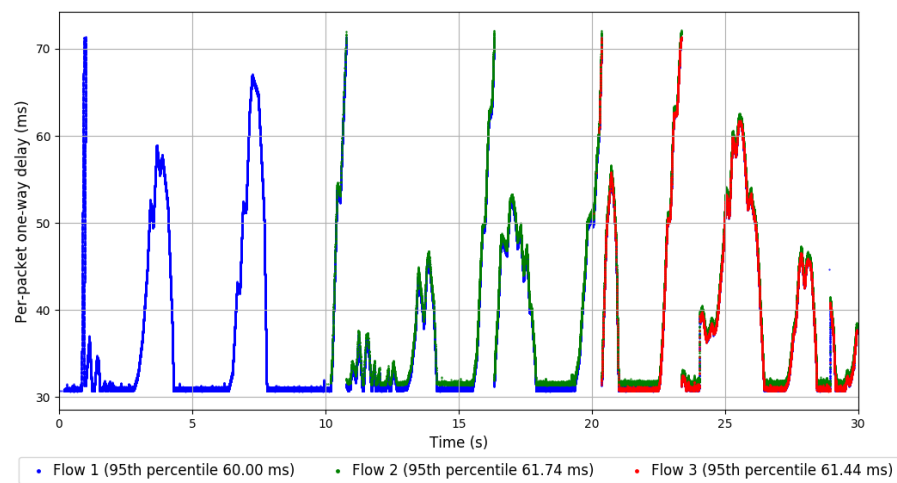
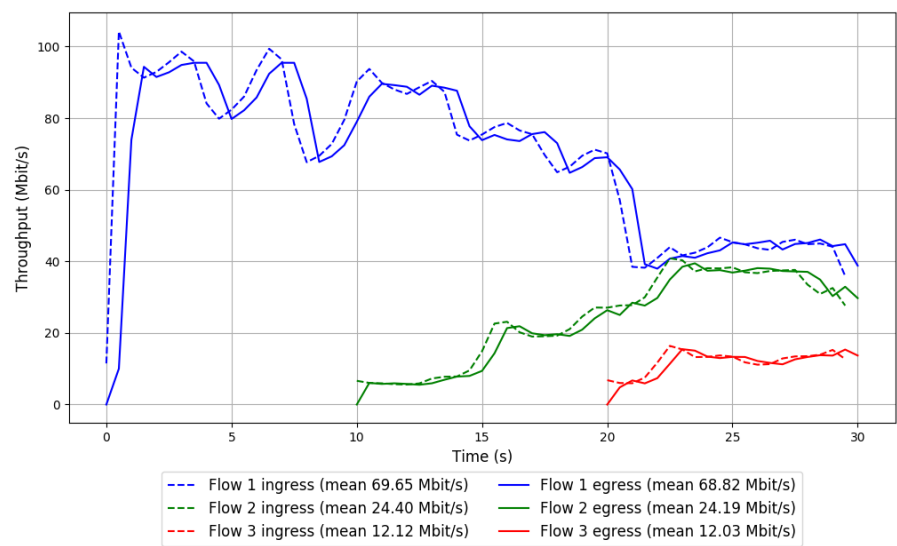


Run 2: Statistics of PCC-Expr

Start at: 2018-07-03 18:45:32
End at: 2018-07-03 18:46:02
Local clock offset: -2.95 ms
Remote clock offset: -1.822 ms

Below is generated by plot.py at 2018-07-03 22:58:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.88 Mbit/s
95th percentile per-packet one-way delay: 60.594 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 68.82 Mbit/s
95th percentile per-packet one-way delay: 60.004 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 24.19 Mbit/s
95th percentile per-packet one-way delay: 61.743 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 12.03 Mbit/s
95th percentile per-packet one-way delay: 61.442 ms
Loss rate: 0.92%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-07-03 19:08:16

End at: 2018-07-03 19:08:46

Local clock offset: -2.765 ms

Remote clock offset: 2.984 ms

Below is generated by plot.py at 2018-07-03 22:58:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.73 Mbit/s

95th percentile per-packet one-way delay: 62.956 ms

Loss rate: 1.33%

-- Flow 1:

Average throughput: 72.12 Mbit/s

95th percentile per-packet one-way delay: 61.748 ms

Loss rate: 1.45%

-- Flow 2:

Average throughput: 19.50 Mbit/s

95th percentile per-packet one-way delay: 65.679 ms

Loss rate: 0.85%

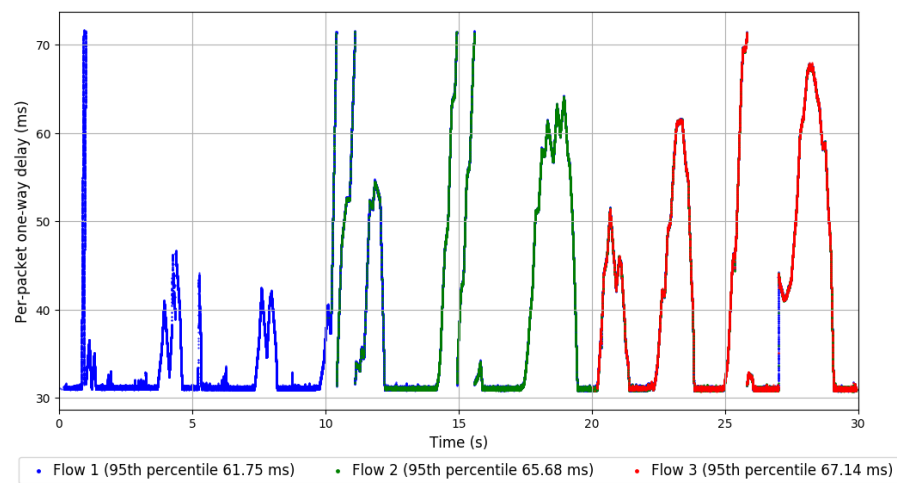
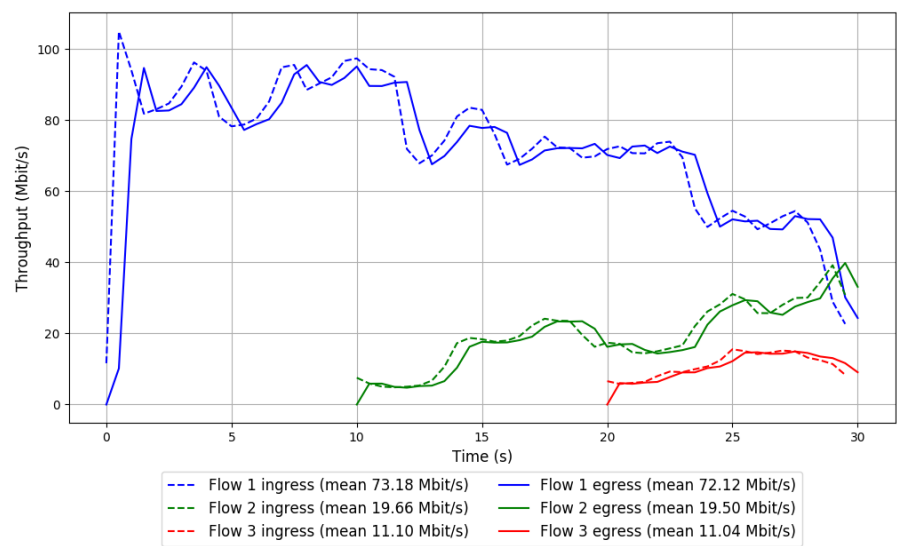
-- Flow 3:

Average throughput: 11.04 Mbit/s

95th percentile per-packet one-way delay: 67.140 ms

Loss rate: 0.55%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-07-03 19:31:02

End at: 2018-07-03 19:31:32

Local clock offset: -2.515 ms

Remote clock offset: 8.29 ms

Below is generated by plot.py at 2018-07-03 22:59:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.95 Mbit/s

95th percentile per-packet one-way delay: 62.438 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 71.66 Mbit/s

95th percentile per-packet one-way delay: 61.296 ms

Loss rate: 1.25%

-- Flow 2:

Average throughput: 18.50 Mbit/s

95th percentile per-packet one-way delay: 64.576 ms

Loss rate: 0.57%

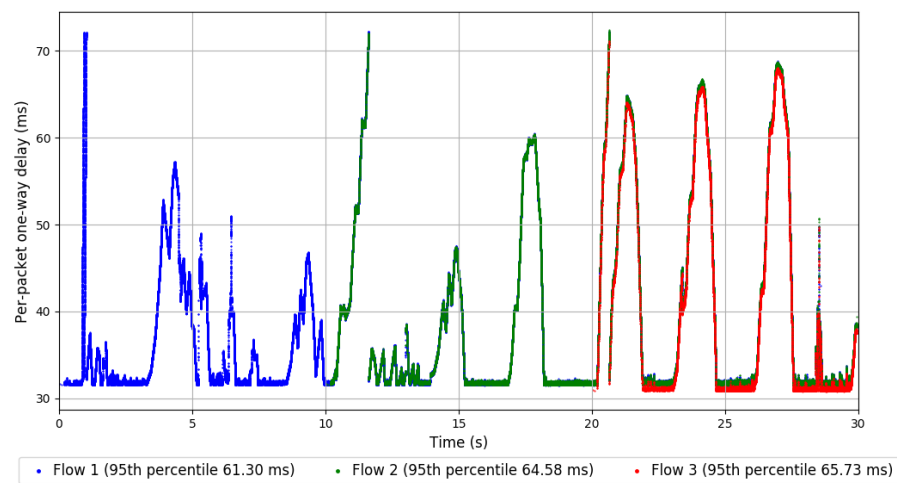
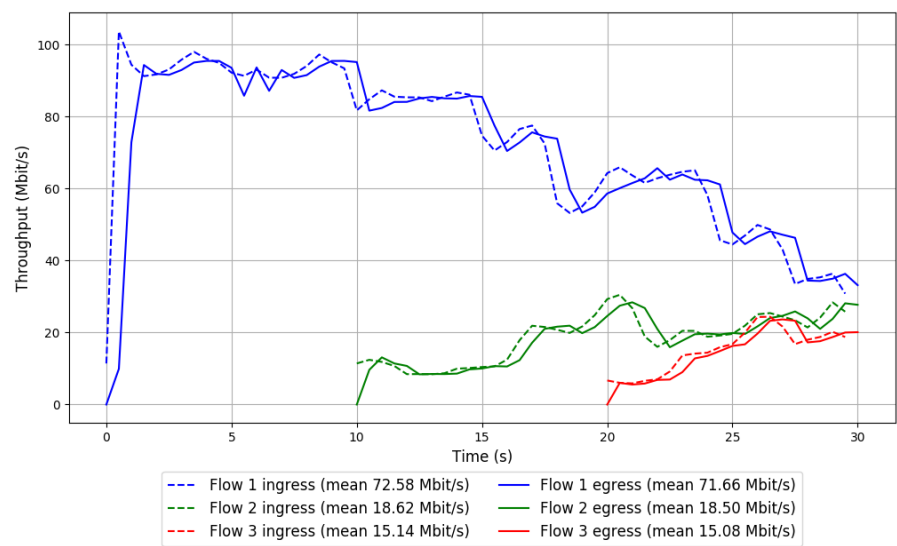
-- Flow 3:

Average throughput: 15.08 Mbit/s

95th percentile per-packet one-way delay: 65.734 ms

Loss rate: 0.37%

Run 4: Report of PCC-Expr — Data Link

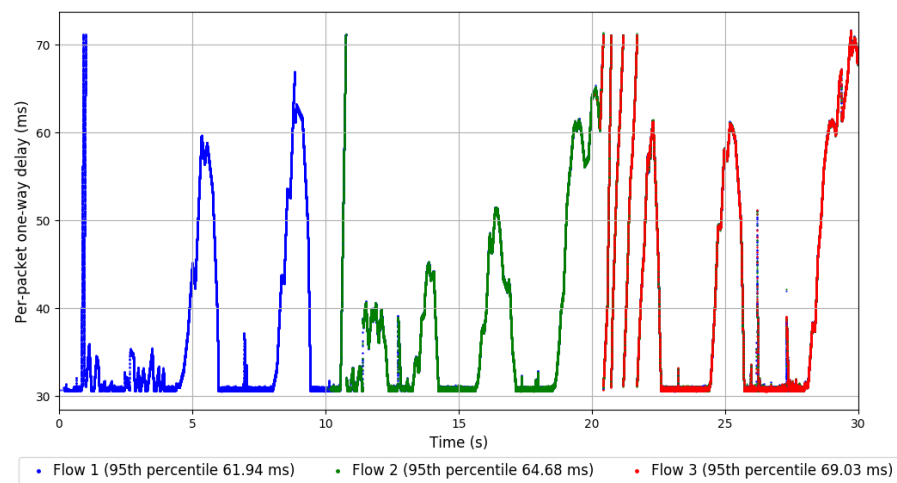
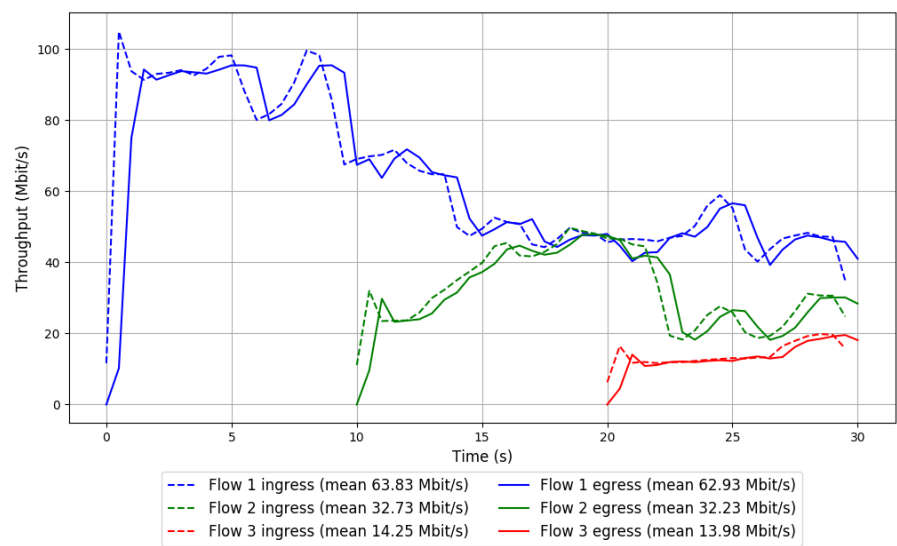


Run 5: Statistics of PCC-Expr

Start at: 2018-07-03 19:53:51
End at: 2018-07-03 19:54:21
Local clock offset: 0.736 ms
Remote clock offset: 10.777 ms

Below is generated by plot.py at 2018-07-03 22:59:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.99 Mbit/s
95th percentile per-packet one-way delay: 63.077 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 62.93 Mbit/s
95th percentile per-packet one-way delay: 61.944 ms
Loss rate: 1.29%
-- Flow 2:
Average throughput: 32.23 Mbit/s
95th percentile per-packet one-way delay: 64.681 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 13.98 Mbit/s
95th percentile per-packet one-way delay: 69.035 ms
Loss rate: 1.86%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/pcc_e

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/pcc_e

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/pcc_e

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/pcc_e

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/pcc_e

Run 10: Report of PCC-Expr — Data Link

Figure is missing

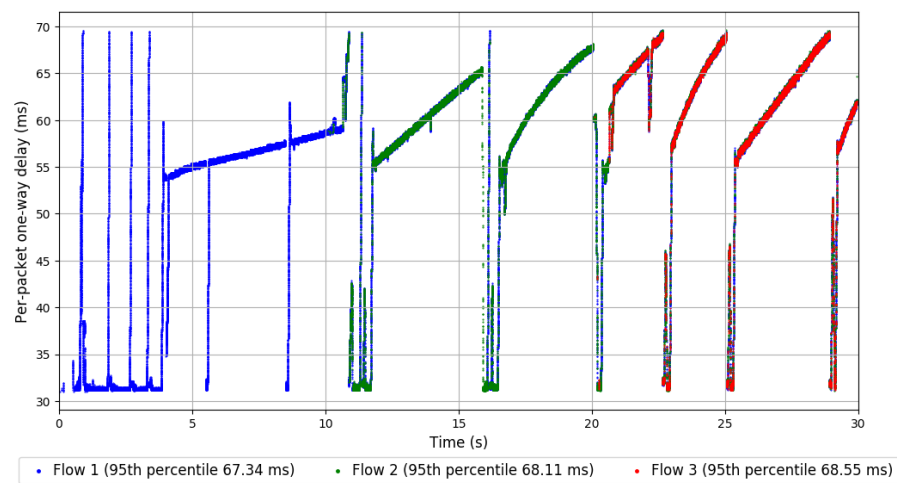
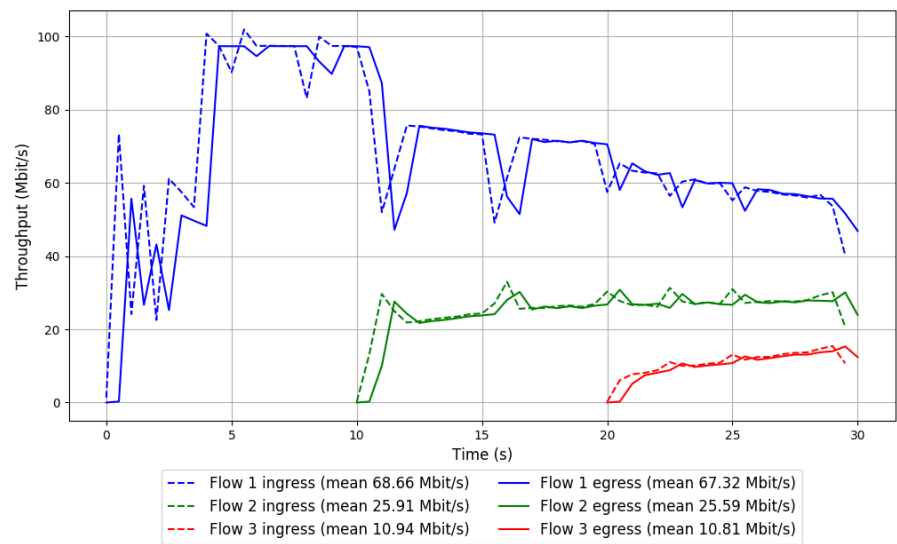
Figure is missing

Run 1: Statistics of QUIC Cubic

Start at: 2018-07-03 18:18:44
End at: 2018-07-03 18:19:14
Local clock offset: -2.259 ms
Remote clock offset: -2.263 ms

Below is generated by plot.py at 2018-07-03 22:59:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.85 Mbit/s
95th percentile per-packet one-way delay: 67.637 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 67.32 Mbit/s
95th percentile per-packet one-way delay: 67.338 ms
Loss rate: 1.85%
-- Flow 2:
Average throughput: 25.59 Mbit/s
95th percentile per-packet one-way delay: 68.107 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 10.81 Mbit/s
95th percentile per-packet one-way delay: 68.552 ms
Loss rate: 1.17%

Run 1: Report of QUIC Cubic — Data Link

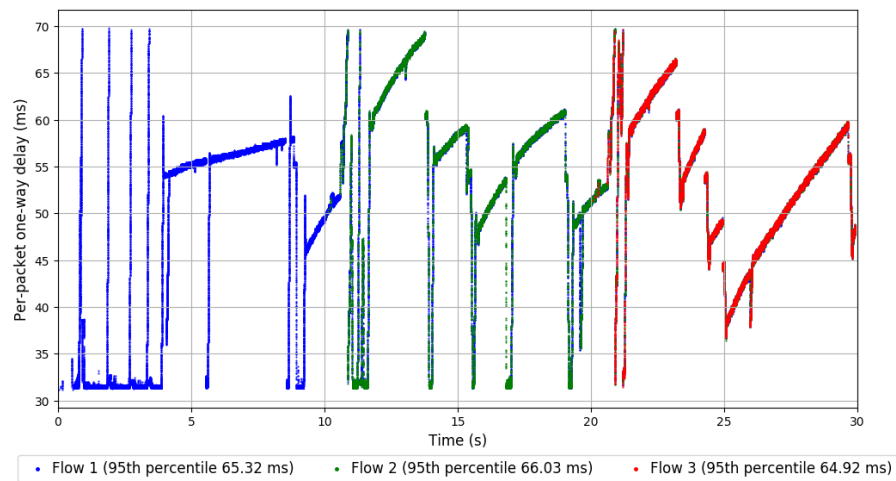
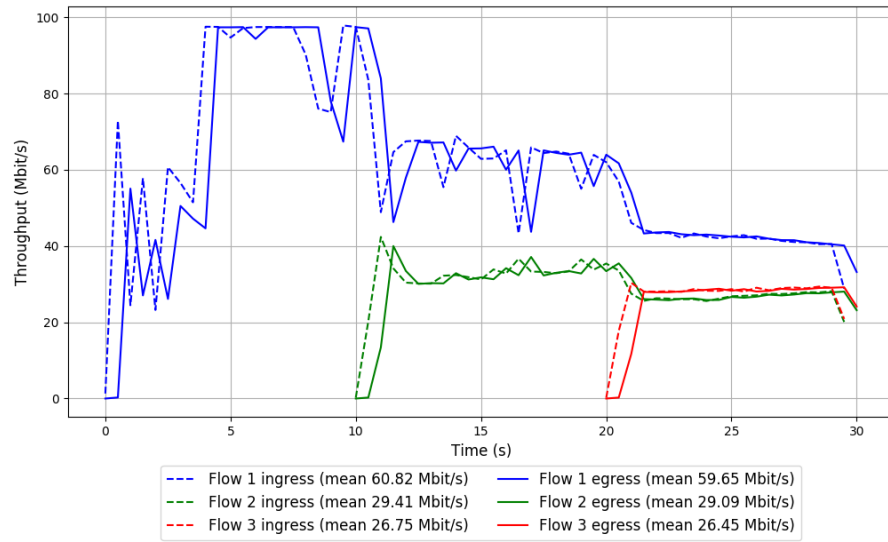


Run 2: Statistics of QUIC Cubic

Start at: 2018-07-03 18:41:31
End at: 2018-07-03 18:42:01
Local clock offset: -2.879 ms
Remote clock offset: -1.818 ms

Below is generated by plot.py at 2018-07-03 22:59:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.67 Mbit/s
95th percentile per-packet one-way delay: 65.479 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 59.65 Mbit/s
95th percentile per-packet one-way delay: 65.317 ms
Loss rate: 1.87%
-- Flow 2:
Average throughput: 29.09 Mbit/s
95th percentile per-packet one-way delay: 66.035 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 26.45 Mbit/s
95th percentile per-packet one-way delay: 64.917 ms
Loss rate: 1.17%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-07-03 19:04:15

End at: 2018-07-03 19:04:45

Local clock offset: -2.782 ms

Remote clock offset: 0.6 ms

Below is generated by plot.py at 2018-07-03 22:59:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.52 Mbit/s

95th percentile per-packet one-way delay: 67.398 ms

Loss rate: 1.81%

-- Flow 1:

Average throughput: 62.82 Mbit/s

95th percentile per-packet one-way delay: 67.159 ms

Loss rate: 1.95%

-- Flow 2:

Average throughput: 28.54 Mbit/s

95th percentile per-packet one-way delay: 67.717 ms

Loss rate: 1.40%

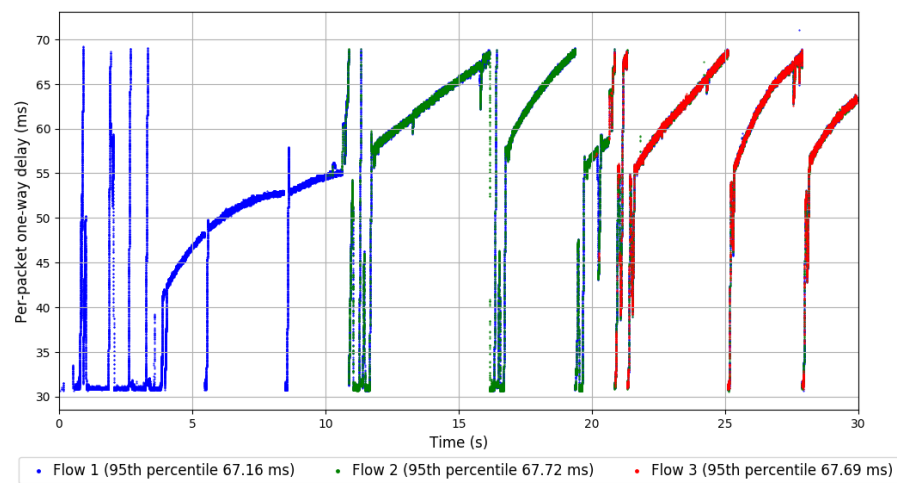
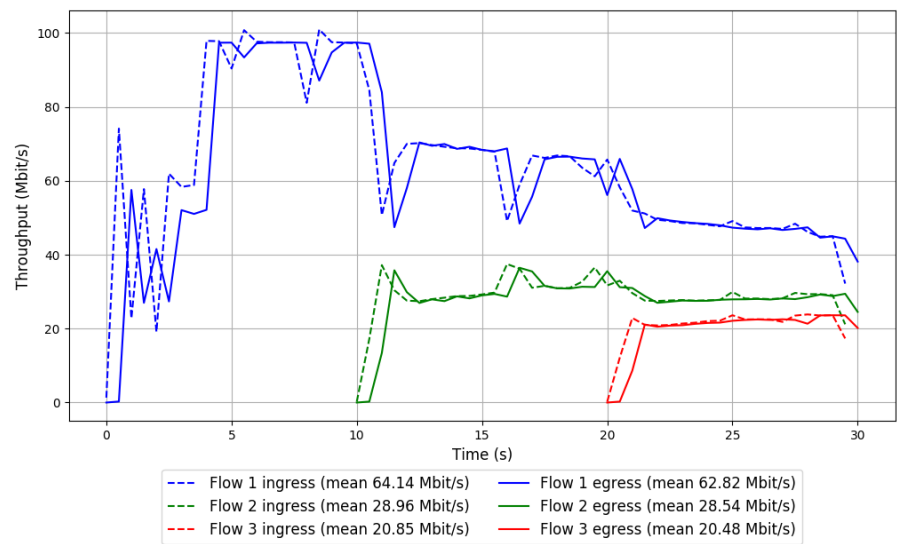
-- Flow 3:

Average throughput: 20.48 Mbit/s

95th percentile per-packet one-way delay: 67.693 ms

Loss rate: 1.70%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-07-03 19:27:00

End at: 2018-07-03 19:27:30

Local clock offset: -2.586 ms

Remote clock offset: 7.399 ms

Below is generated by plot.py at 2018-07-03 22:59:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.85 Mbit/s

95th percentile per-packet one-way delay: 67.838 ms

Loss rate: 1.97%

-- Flow 1:

Average throughput: 64.22 Mbit/s

95th percentile per-packet one-way delay: 67.757 ms

Loss rate: 2.15%

-- Flow 2:

Average throughput: 23.84 Mbit/s

95th percentile per-packet one-way delay: 67.629 ms

Loss rate: 1.53%

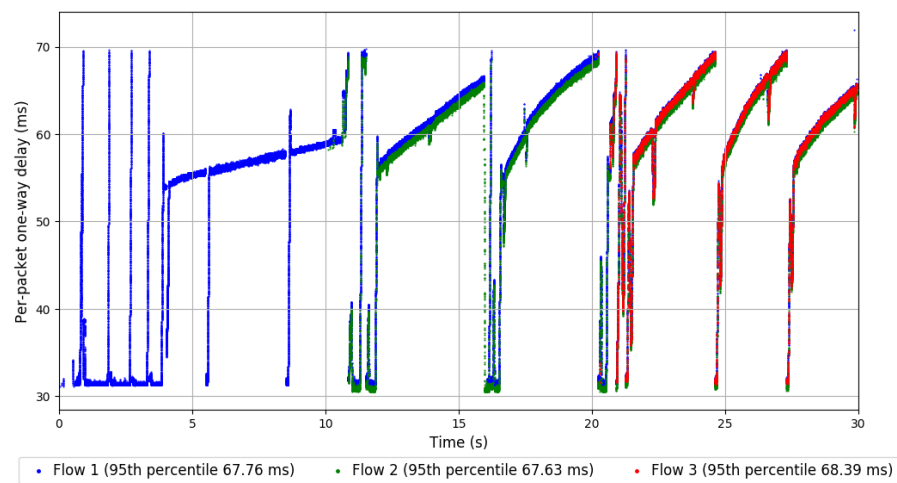
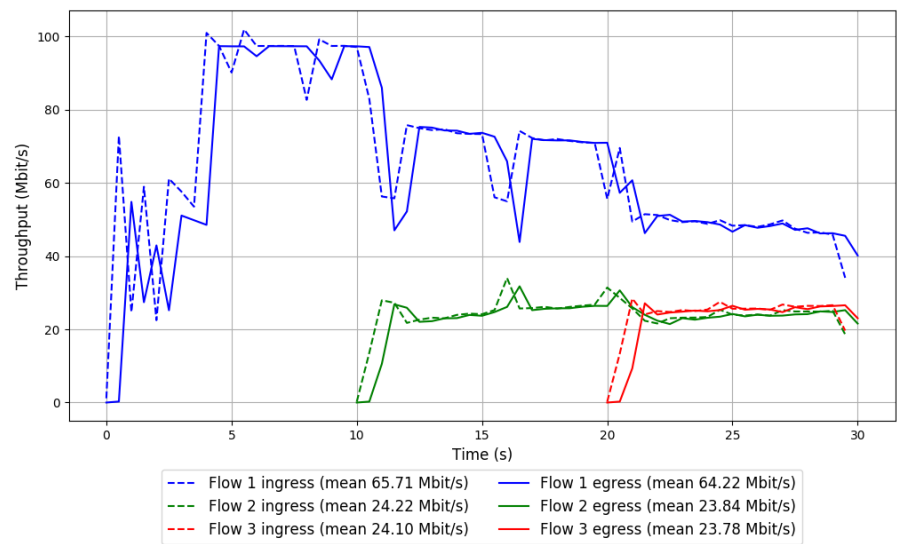
-- Flow 3:

Average throughput: 23.78 Mbit/s

95th percentile per-packet one-way delay: 68.391 ms

Loss rate: 1.37%

Run 4: Report of QUIC Cubic — Data Link

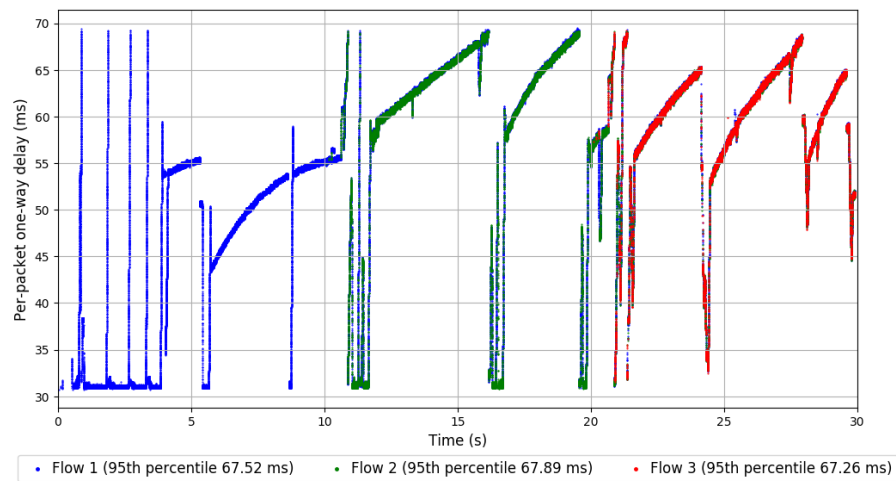
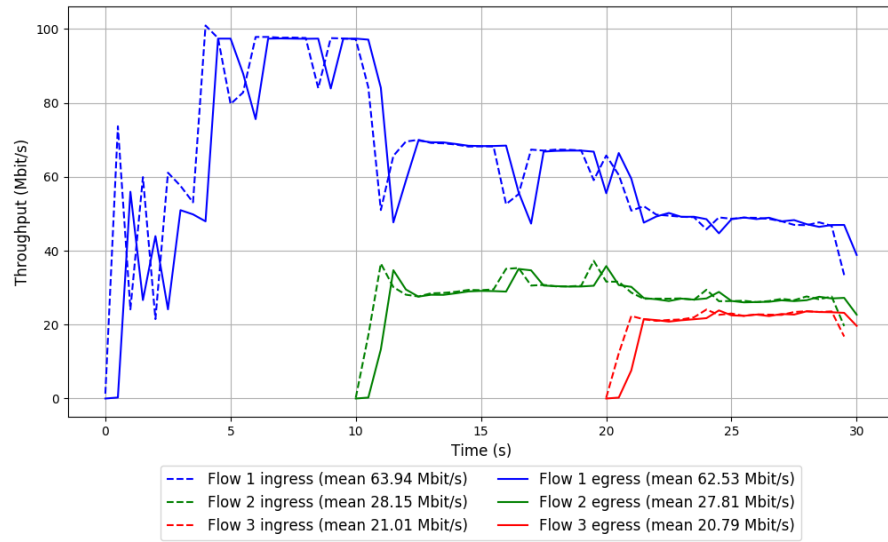


Run 5: Statistics of QUIC Cubic

Start at: 2018-07-03 19:49:49
End at: 2018-07-03 19:50:19
Local clock offset: 0.325 ms
Remote clock offset: 10.478 ms

Below is generated by plot.py at 2018-07-03 22:59:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.82 Mbit/s
95th percentile per-packet one-way delay: 67.608 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 62.53 Mbit/s
95th percentile per-packet one-way delay: 67.516 ms
Loss rate: 2.13%
-- Flow 2:
Average throughput: 27.81 Mbit/s
95th percentile per-packet one-way delay: 67.895 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 20.79 Mbit/s
95th percentile per-packet one-way delay: 67.262 ms
Loss rate: 1.11%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/quic.

Run 6: Report of QUIC Cubic — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of QUIC Cubic

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/quic.

Run 7: Report of QUIC Cubic — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of QUIC Cubic

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/quic.

Run 8: Report of QUIC Cubic — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of QUIC Cubic

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/quic.

Run 9: Report of QUIC Cubic — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of QUIC Cubic

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/quic.

Run 10: Report of QUIC Cubic — Data Link

Figure is missing

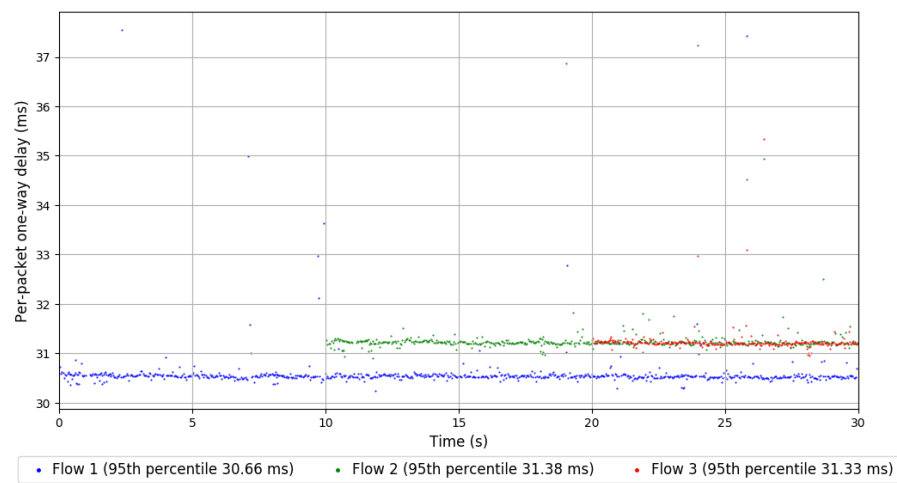
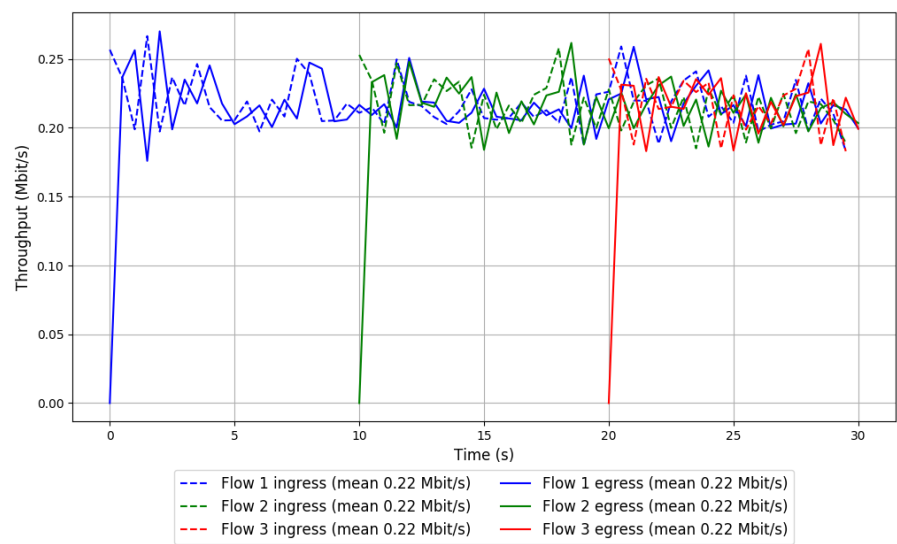
Figure is missing

Run 1: Statistics of SReAM

Start at: 2018-07-03 18:29:28
End at: 2018-07-03 18:29:58
Local clock offset: -3.007 ms
Remote clock offset: -2.432 ms

Below is generated by plot.py at 2018-07-03 22:59:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 31.291 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.655 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.382 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.331 ms
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

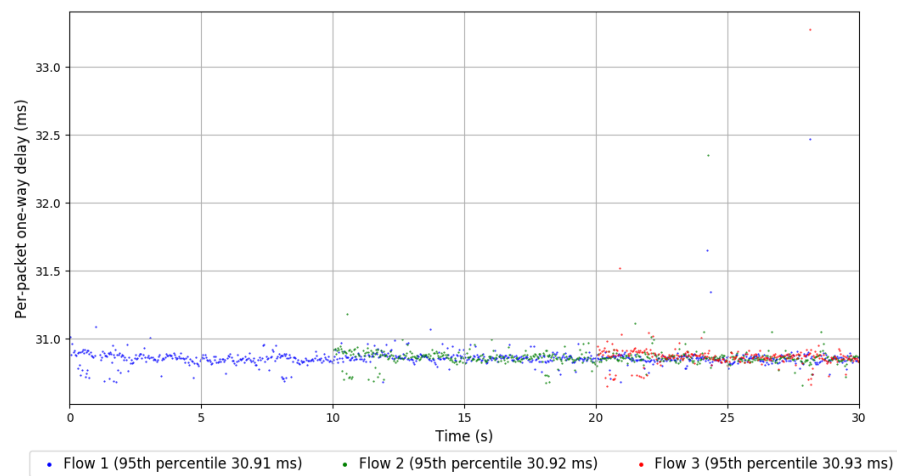
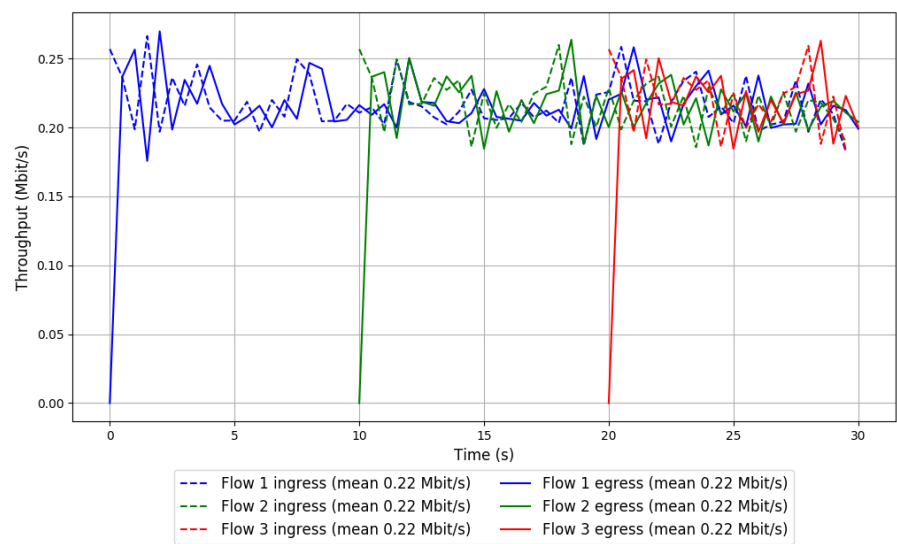


Run 2: Statistics of SReAM

Start at: 2018-07-03 18:52:14
End at: 2018-07-03 18:52:44
Local clock offset: -2.931 ms
Remote clock offset: -1.675 ms

Below is generated by plot.py at 2018-07-03 22:59:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 30.919 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.914 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.921 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.925 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-07-03 19:14:58

End at: 2018-07-03 19:15:28

Local clock offset: -2.593 ms

Remote clock offset: 4.97 ms

Below is generated by plot.py at 2018-07-03 22:59:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 31.292 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.644 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 31.332 ms

Loss rate: 0.00%

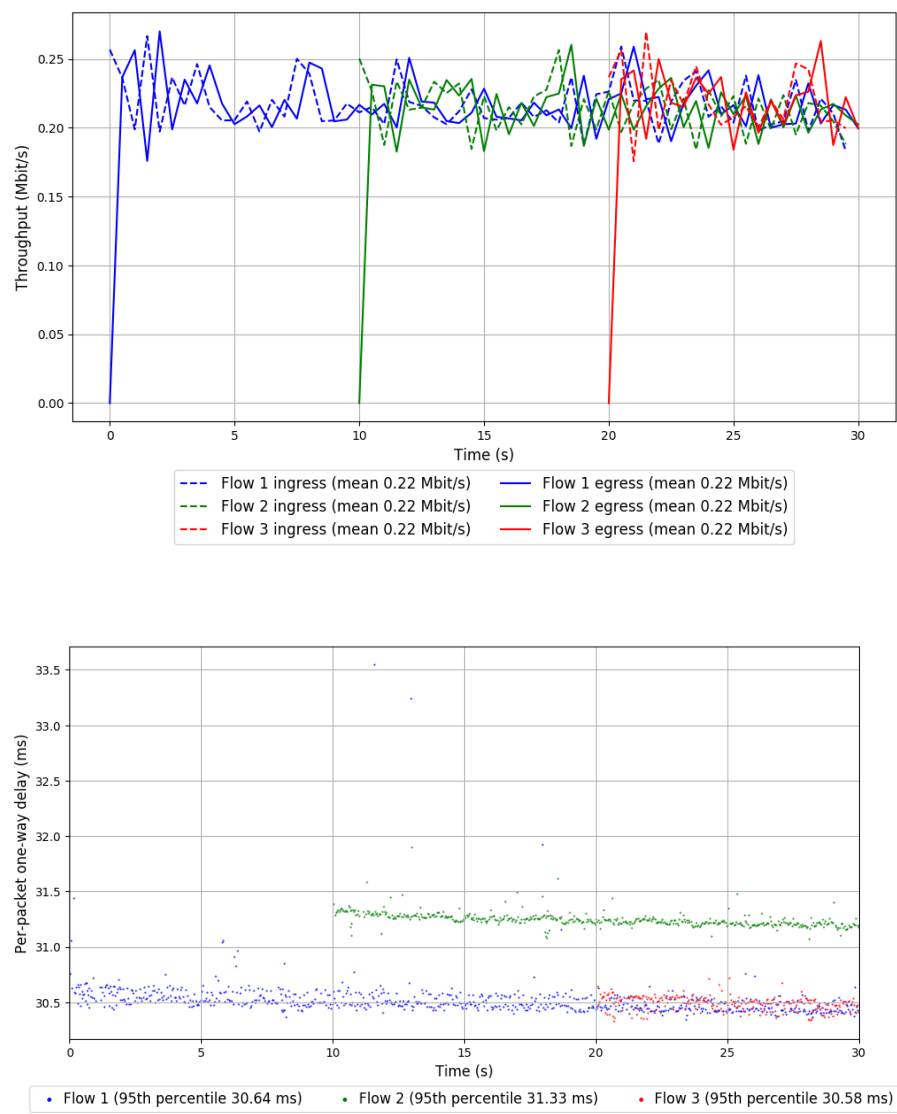
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.580 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-07-03 19:37:45

End at: 2018-07-03 19:38:15

Local clock offset: -1.337 ms

Remote clock offset: 8.694 ms

Below is generated by plot.py at 2018-07-03 22:59:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 31.506 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 31.526 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.848 ms

Loss rate: 0.00%

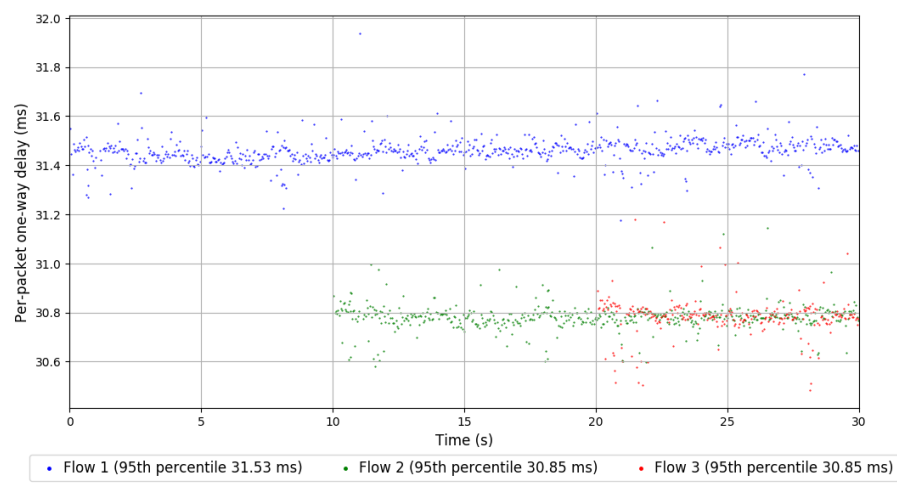
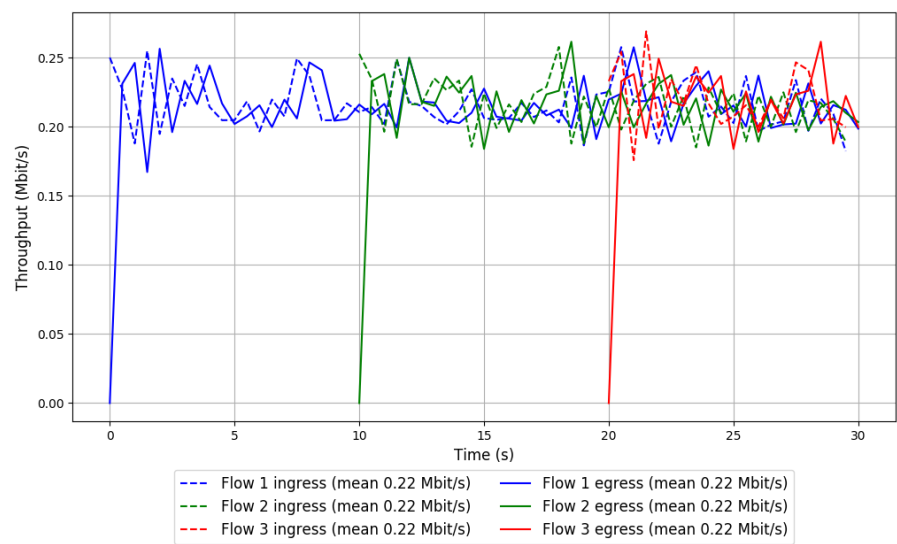
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.852 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-07-03 20:00:32

End at: 2018-07-03 20:01:02

Local clock offset: 1.028 ms

Remote clock offset: 11.66 ms

Below is generated by plot.py at 2018-07-03 22:59:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 31.217 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 30.584 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 31.245 ms

Loss rate: 0.00%

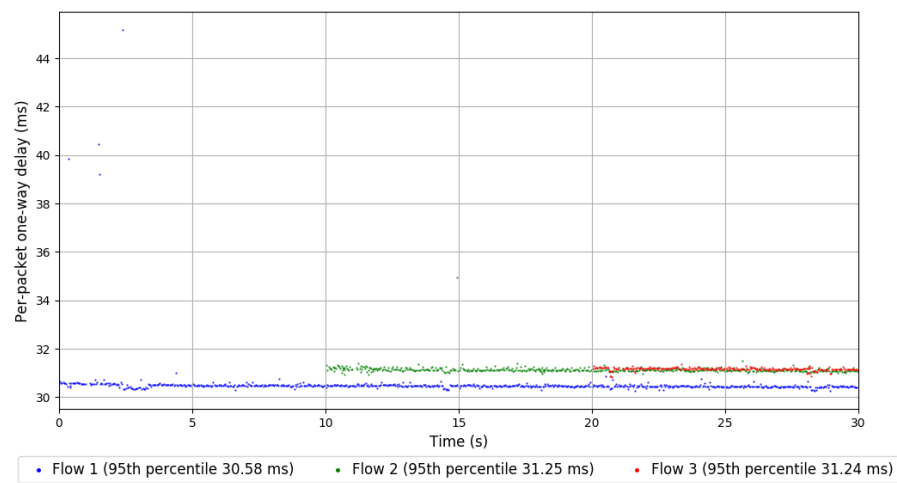
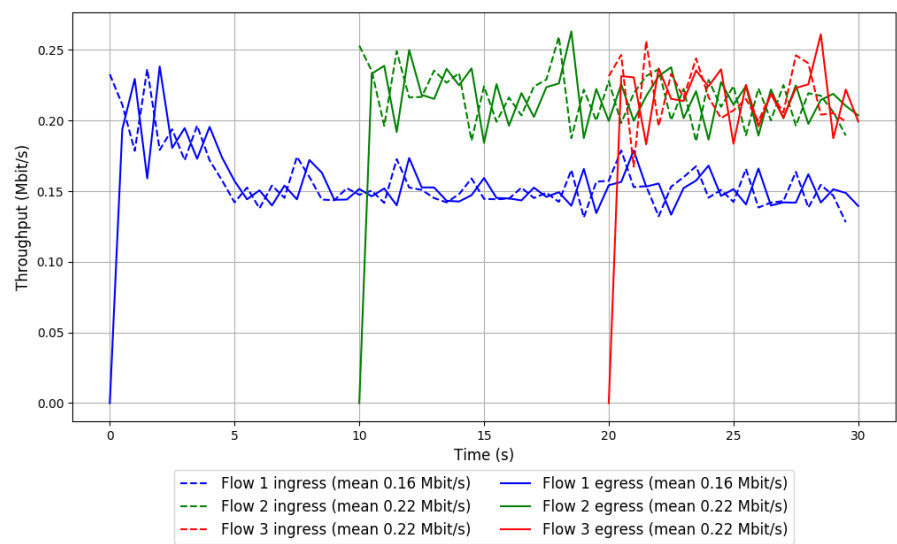
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 31.238 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/screa

Run 6: Report of SReAM — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of SCReAM

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/screa

Run 7: Report of SReAM — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of SCReAM

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/screa

Run 8: Report of SReAM — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of SCReAM

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/screa

Run 9: Report of SReAM — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of SReAM

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/screa

Run 10: Report of SCReAM — Data Link

Figure is missing

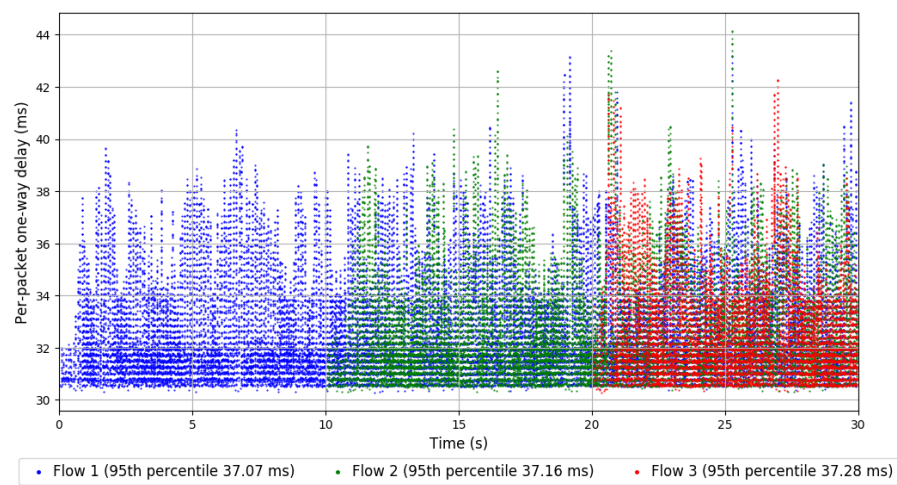
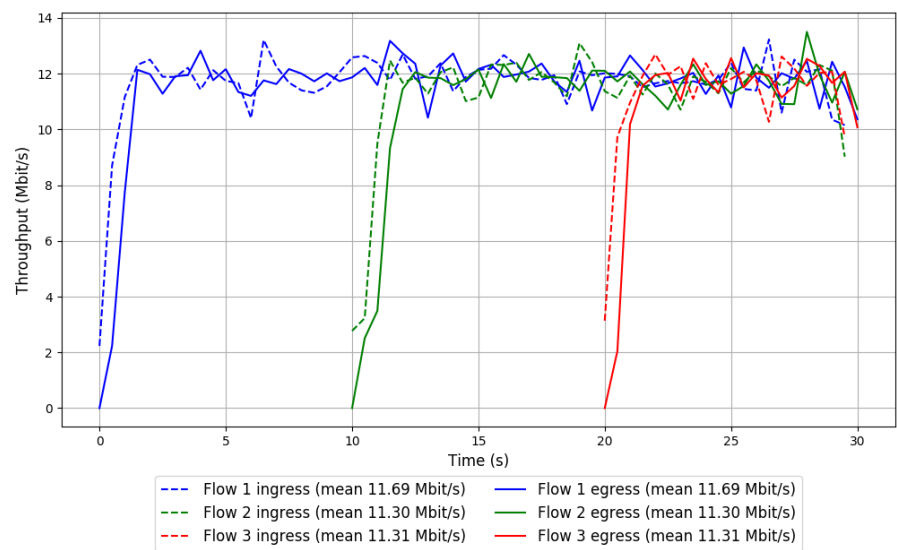
Figure is missing

Run 1: Statistics of Sprout

Start at: 2018-07-03 18:33:26
End at: 2018-07-03 18:33:56
Local clock offset: -3.162 ms
Remote clock offset: -2.282 ms

Below is generated by plot.py at 2018-07-03 22:59:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 22.93 Mbit/s
95th percentile per-packet one-way delay: 37.123 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.69 Mbit/s
95th percentile per-packet one-way delay: 37.066 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.30 Mbit/s
95th percentile per-packet one-way delay: 37.165 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.31 Mbit/s
95th percentile per-packet one-way delay: 37.281 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

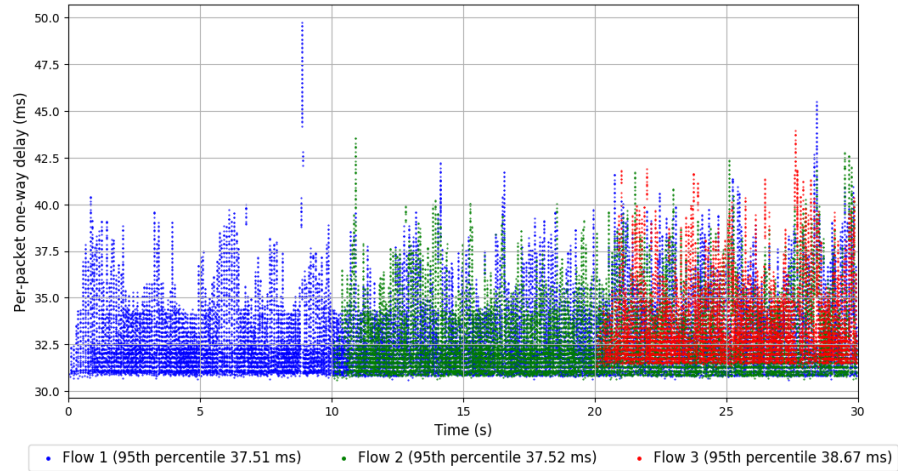
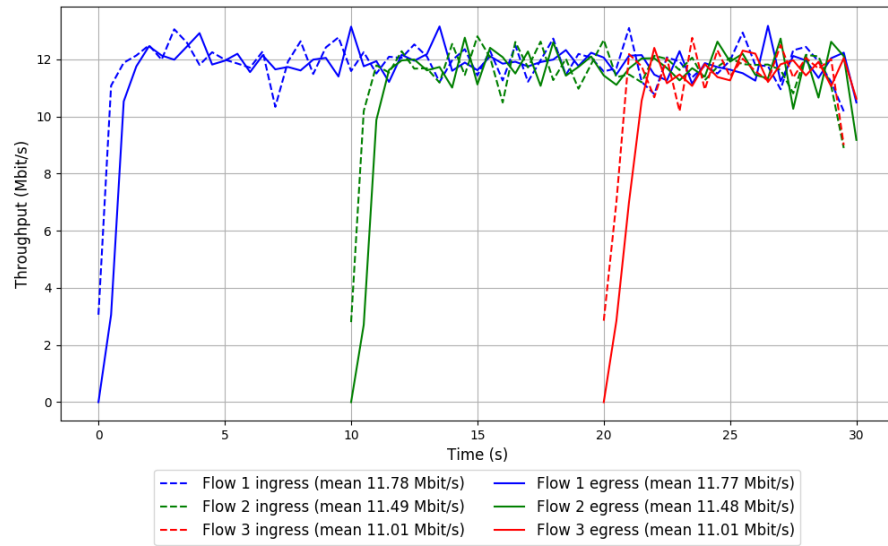


Run 2: Statistics of Sprout

Start at: 2018-07-03 18:56:12
End at: 2018-07-03 18:56:42
Local clock offset: -2.841 ms
Remote clock offset: -1.473 ms

Below is generated by plot.py at 2018-07-03 22:59:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 23.05 Mbit/s
95th percentile per-packet one-way delay: 37.710 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 11.77 Mbit/s
95th percentile per-packet one-way delay: 37.509 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 11.48 Mbit/s
95th percentile per-packet one-way delay: 37.521 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 11.01 Mbit/s
95th percentile per-packet one-way delay: 38.673 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

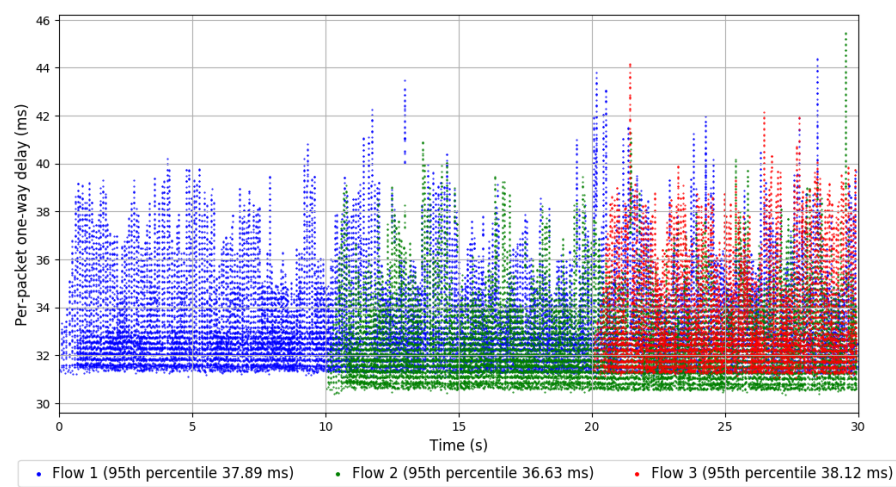
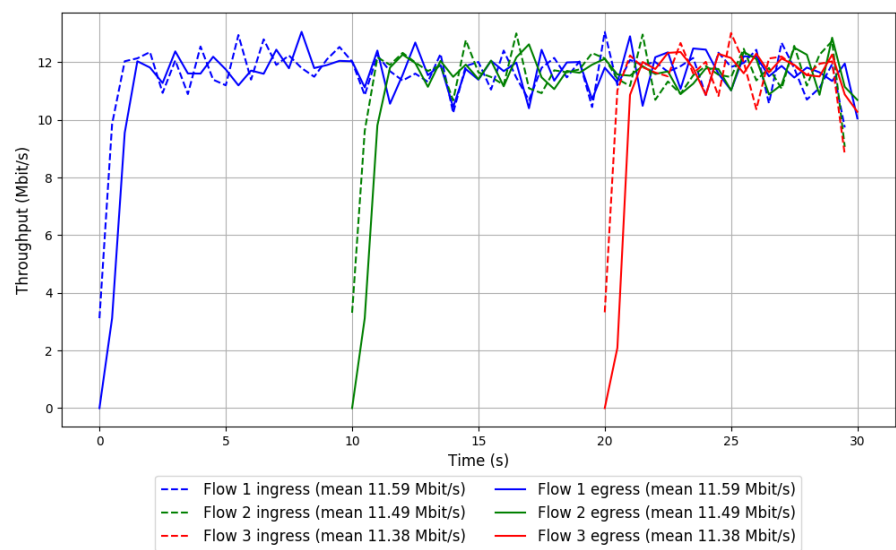


Run 3: Statistics of Sprout

Start at: 2018-07-03 19:18:56
End at: 2018-07-03 19:19:26
Local clock offset: -2.627 ms
Remote clock offset: 5.997 ms

```
# Below is generated by plot.py at 2018-07-03 22:59:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.98 Mbit/s
95th percentile per-packet one-way delay: 37.676 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.59 Mbit/s
95th percentile per-packet one-way delay: 37.892 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.49 Mbit/s
95th percentile per-packet one-way delay: 36.628 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.38 Mbit/s
95th percentile per-packet one-way delay: 38.122 ms
Loss rate: 0.00%
```


Run 3: Report of Sprout — Data Link

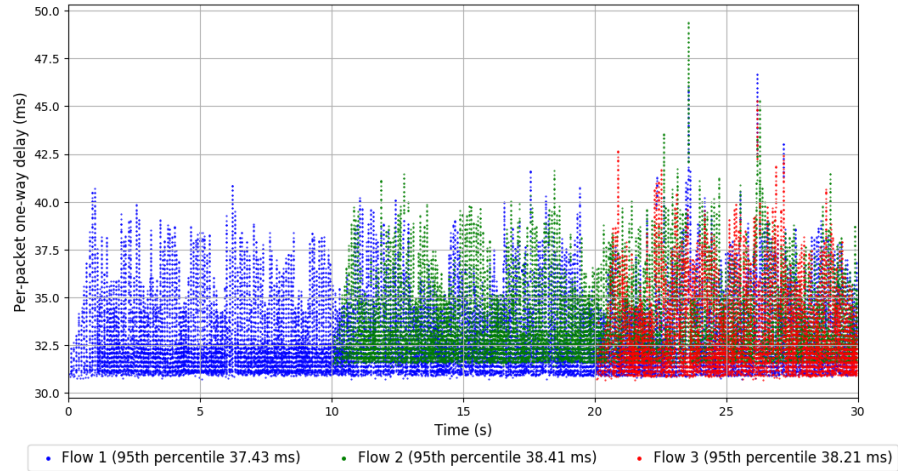
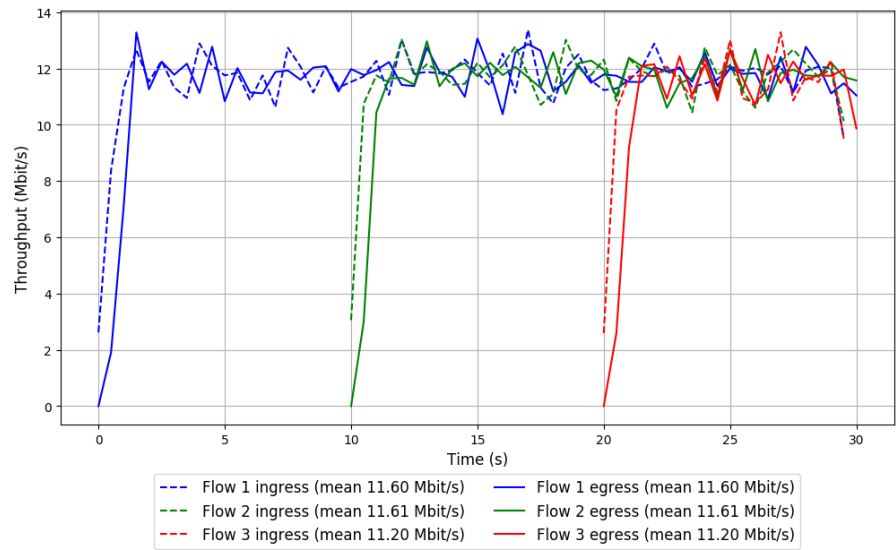


Run 4: Statistics of Sprout

Start at: 2018-07-03 19:41:44
End at: 2018-07-03 19:42:14
Local clock offset: -0.485 ms
Remote clock offset: 9.572 ms

```
# Below is generated by plot.py at 2018-07-03 22:59:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.02 Mbit/s
95th percentile per-packet one-way delay: 37.922 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.60 Mbit/s
95th percentile per-packet one-way delay: 37.428 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.61 Mbit/s
95th percentile per-packet one-way delay: 38.407 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.20 Mbit/s
95th percentile per-packet one-way delay: 38.211 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/sprout

Run 5: Report of Sprout — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of Sprout

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/spro

Run 6: Report of Sprout — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of Sprout

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/spro

Run 7: Report of Sprout — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of Sprout

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/sprout

Run 8: Report of Sprout — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of Sprout

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/sprout

Run 9: Report of Sprout — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of Sprout

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/sprout

Run 10: Report of Sprout — Data Link

Figure is missing

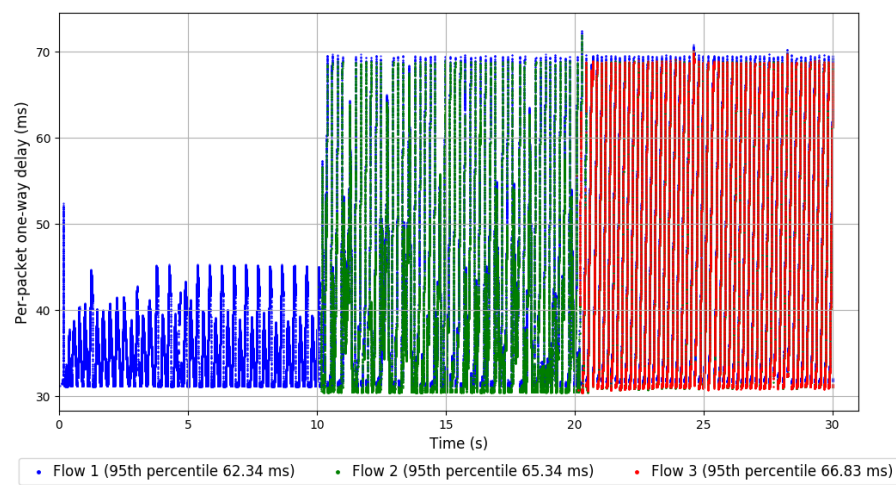
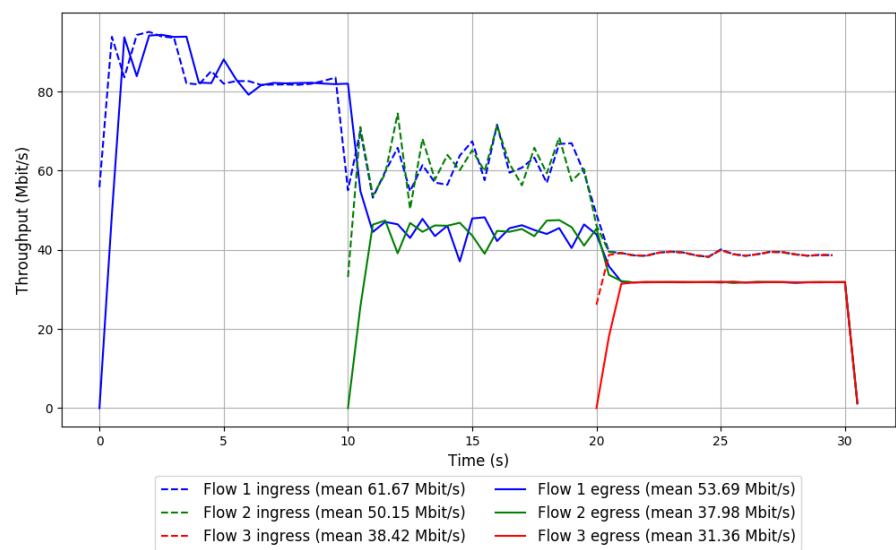
Figure is missing

Run 1: Statistics of TaoVA-100x

Start at: 2018-07-03 18:38:46
End at: 2018-07-03 18:39:16
Local clock offset: -3.013 ms
Remote clock offset: -2.179 ms

Below is generated by plot.py at 2018-07-03 23:01:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.38 Mbit/s
95th percentile per-packet one-way delay: 64.573 ms
Loss rate: 17.13%
-- Flow 1:
Average throughput: 53.69 Mbit/s
95th percentile per-packet one-way delay: 62.339 ms
Loss rate: 12.94%
-- Flow 2:
Average throughput: 37.98 Mbit/s
95th percentile per-packet one-way delay: 65.343 ms
Loss rate: 24.30%
-- Flow 3:
Average throughput: 31.36 Mbit/s
95th percentile per-packet one-way delay: 66.825 ms
Loss rate: 18.58%

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

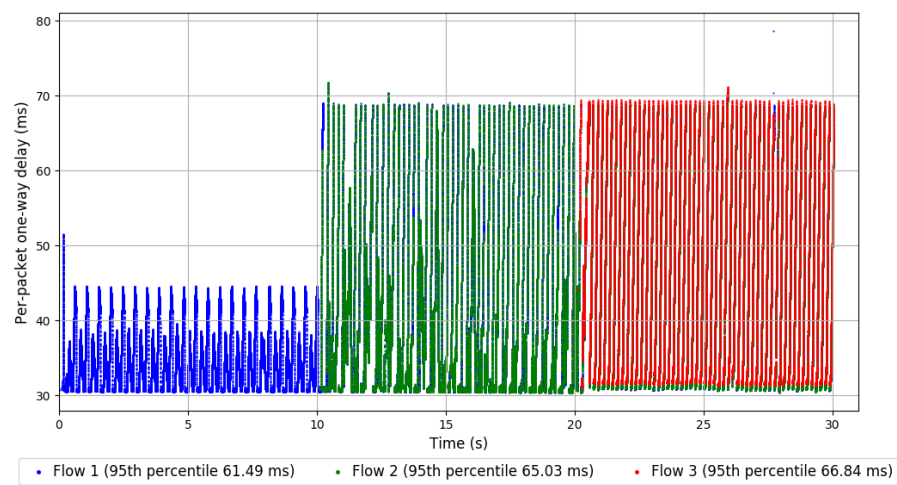
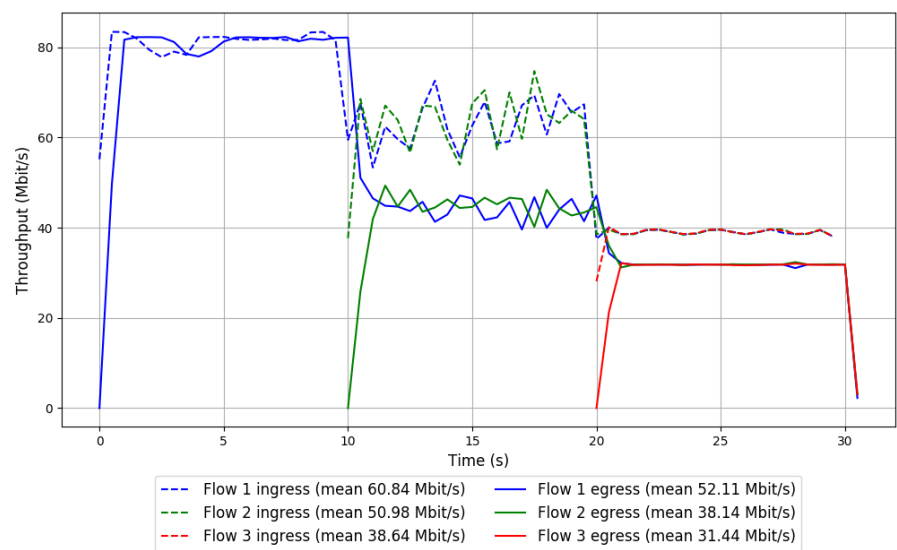


Run 2: Statistics of TaoVA-100x

Start at: 2018-07-03 19:01:31
End at: 2018-07-03 19:02:01
Local clock offset: -2.82 ms
Remote clock offset: -1.665 ms

Below is generated by plot.py at 2018-07-03 23:01:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.98 Mbit/s
95th percentile per-packet one-way delay: 64.263 ms
Loss rate: 18.18%
-- Flow 1:
Average throughput: 52.11 Mbit/s
95th percentile per-packet one-way delay: 61.490 ms
Loss rate: 14.28%
-- Flow 2:
Average throughput: 38.14 Mbit/s
95th percentile per-packet one-way delay: 65.026 ms
Loss rate: 25.07%
-- Flow 3:
Average throughput: 31.44 Mbit/s
95th percentile per-packet one-way delay: 66.839 ms
Loss rate: 18.43%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-07-03 19:24:16

End at: 2018-07-03 19:24:46

Local clock offset: -2.498 ms

Remote clock offset: 7.073 ms

Below is generated by plot.py at 2018-07-03 23:01:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.78 Mbit/s

95th percentile per-packet one-way delay: 64.551 ms

Loss rate: 18.43%

-- Flow 1:

Average throughput: 51.37 Mbit/s

95th percentile per-packet one-way delay: 61.776 ms

Loss rate: 14.14%

-- Flow 2:

Average throughput: 39.08 Mbit/s

95th percentile per-packet one-way delay: 65.758 ms

Loss rate: 25.48%

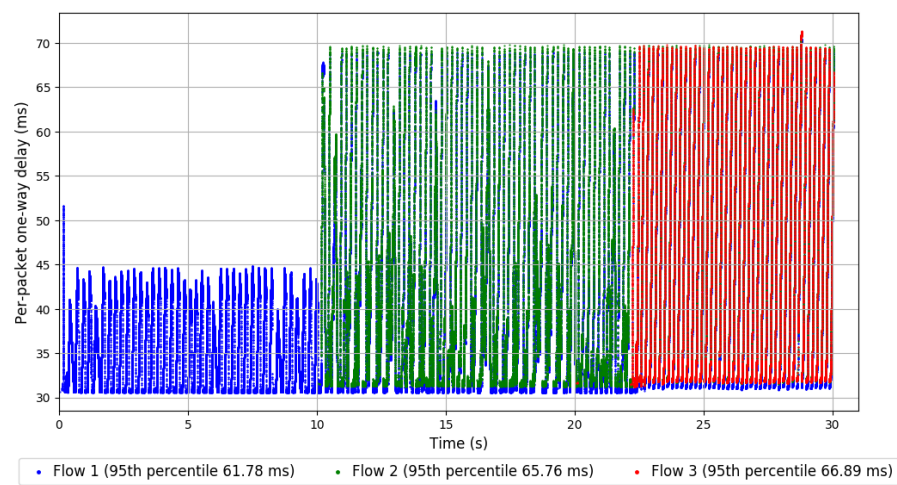
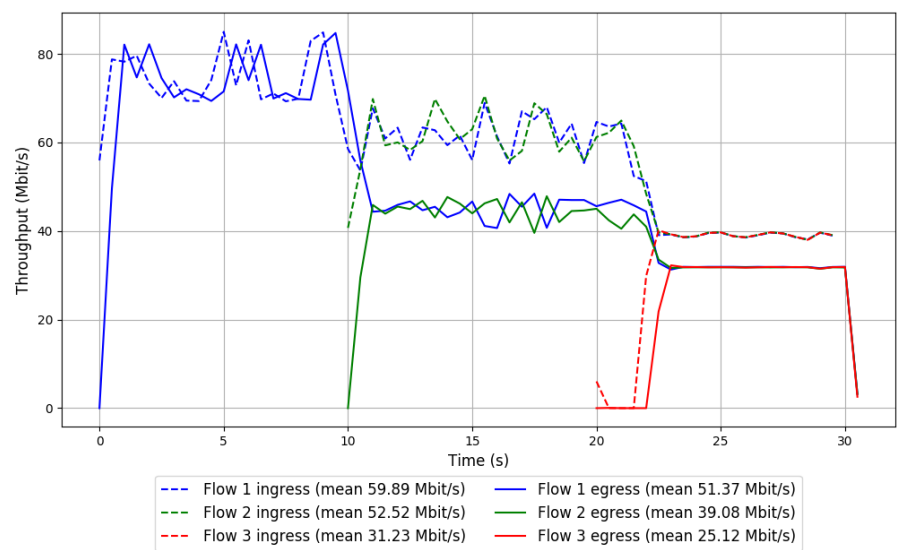
-- Flow 3:

Average throughput: 25.12 Mbit/s

95th percentile per-packet one-way delay: 66.886 ms

Loss rate: 19.42%

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

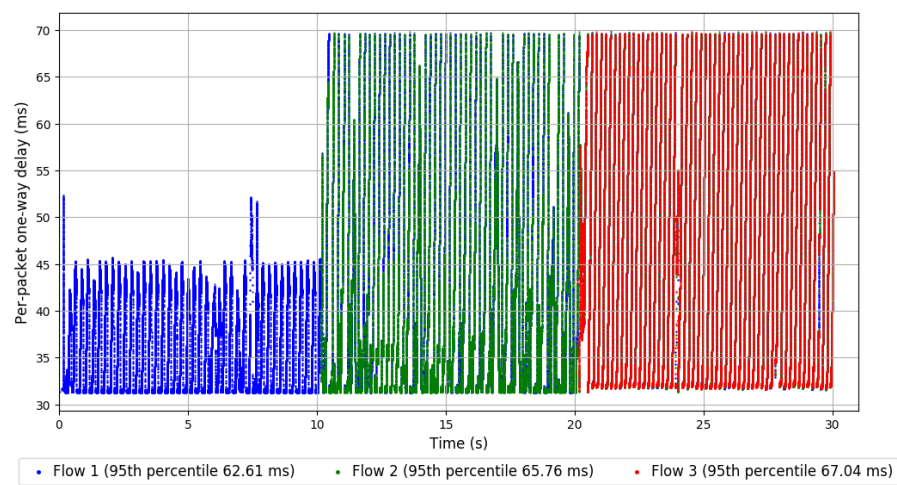
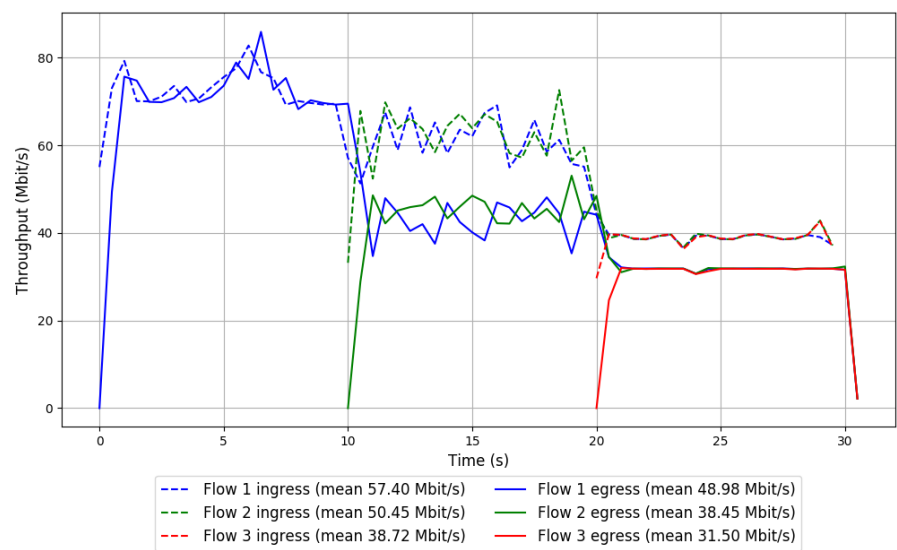


Run 4: Statistics of TaoVA-100x

Start at: 2018-07-03 19:47:04
End at: 2018-07-03 19:47:34
Local clock offset: 0.197 ms
Remote clock offset: 10.002 ms

Below is generated by plot.py at 2018-07-03 23:01:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.09 Mbit/s
95th percentile per-packet one-way delay: 65.021 ms
Loss rate: 18.03%
-- Flow 1:
Average throughput: 48.98 Mbit/s
95th percentile per-packet one-way delay: 62.610 ms
Loss rate: 14.61%
-- Flow 2:
Average throughput: 38.45 Mbit/s
95th percentile per-packet one-way delay: 65.760 ms
Loss rate: 23.70%
-- Flow 3:
Average throughput: 31.50 Mbit/s
95th percentile per-packet one-way delay: 67.040 ms
Loss rate: 18.49%

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



Run 5: Statistics of TaoVA-100x

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/taova

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

Figure is missing

Figure is missing

Run 6: Statistics of TaoVA-100x

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/taova

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

Figure is missing

Figure is missing

Run 7: Statistics of TaoVA-100x

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/taova

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

Figure is missing

Figure is missing

Run 8: Statistics of TaoVA-100x

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/taova

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

Figure is missing

Figure is missing

Run 9: Statistics of TaoVA-100x

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/taova

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

Figure is missing

Figure is missing

Run 10: Statistics of TaoVA-100x

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/taova

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

Figure is missing

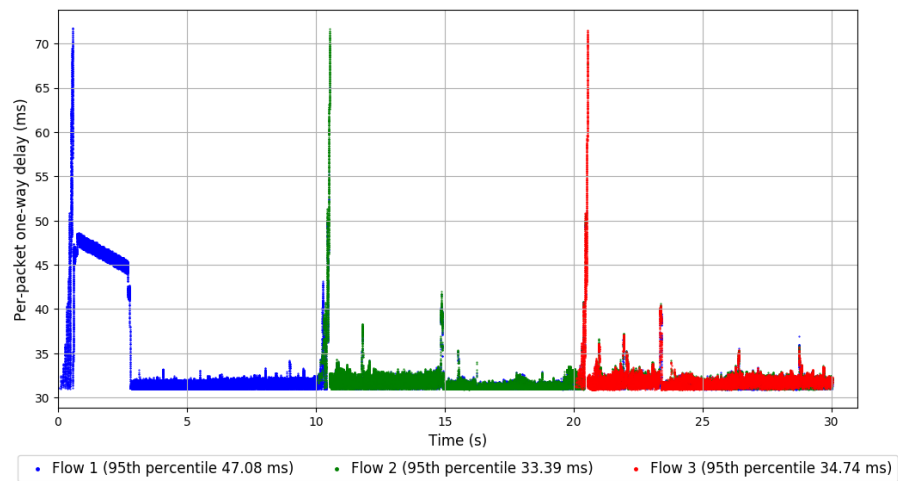
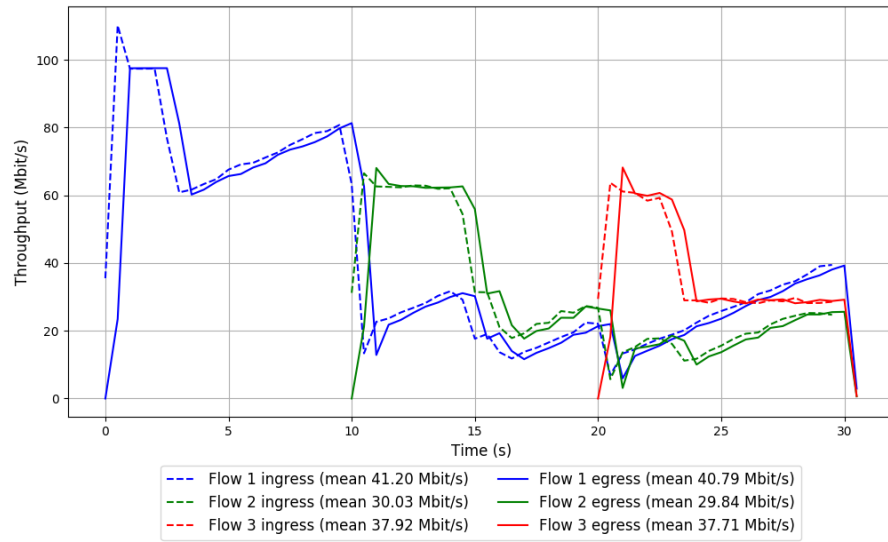
Figure is missing

Run 1: Statistics of TCP Vegas

Start at: 2018-07-03 18:28:08
End at: 2018-07-03 18:28:38
Local clock offset: -2.867 ms
Remote clock offset: -1.825 ms

Below is generated by plot.py at 2018-07-03 23:01:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.21 Mbit/s
95th percentile per-packet one-way delay: 46.550 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 40.79 Mbit/s
95th percentile per-packet one-way delay: 47.075 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 29.84 Mbit/s
95th percentile per-packet one-way delay: 33.391 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 37.71 Mbit/s
95th percentile per-packet one-way delay: 34.744 ms
Loss rate: 0.53%

Run 1: Report of TCP Vegas — Data Link

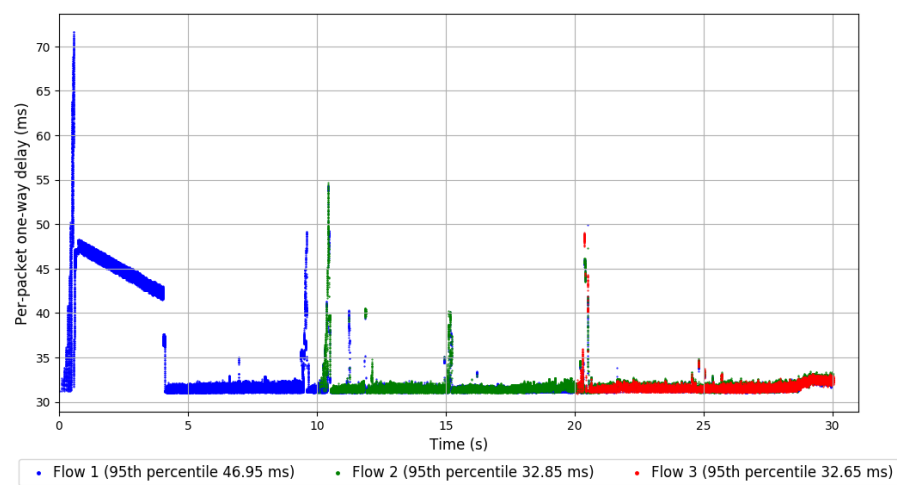
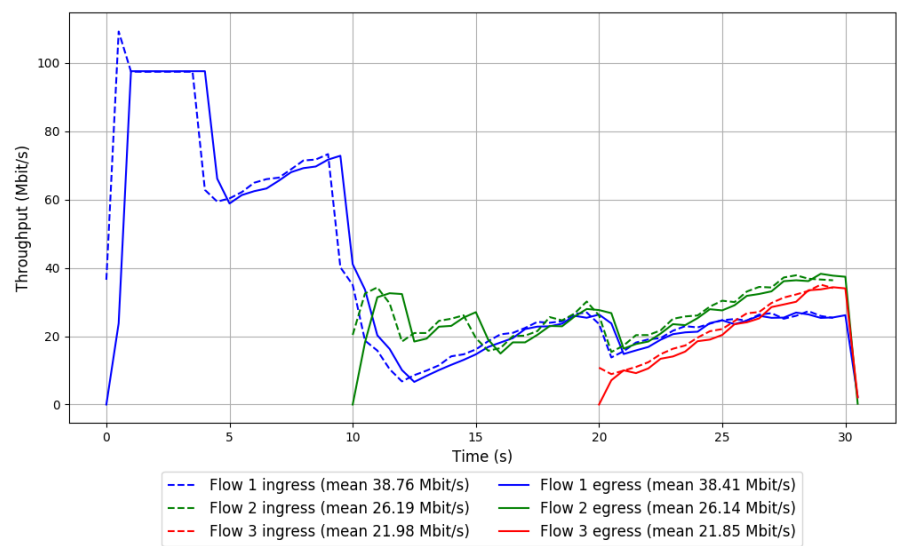


Run 2: Statistics of TCP Vegas

Start at: 2018-07-03 18:50:55
End at: 2018-07-03 18:51:25
Local clock offset: -2.949 ms
Remote clock offset: -1.367 ms

Below is generated by plot.py at 2018-07-03 23:01:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 63.08 Mbit/s
95th percentile per-packet one-way delay: 46.465 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 38.41 Mbit/s
95th percentile per-packet one-way delay: 46.947 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 26.14 Mbit/s
95th percentile per-packet one-way delay: 32.855 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 21.85 Mbit/s
95th percentile per-packet one-way delay: 32.646 ms
Loss rate: 0.55%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-07-03 19:13:38

End at: 2018-07-03 19:14:08

Local clock offset: -2.581 ms

Remote clock offset: 4.644 ms

Below is generated by plot.py at 2018-07-03 23:01:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.49 Mbit/s

95th percentile per-packet one-way delay: 37.823 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 66.44 Mbit/s

95th percentile per-packet one-way delay: 38.064 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 26.43 Mbit/s

95th percentile per-packet one-way delay: 37.473 ms

Loss rate: 0.00%

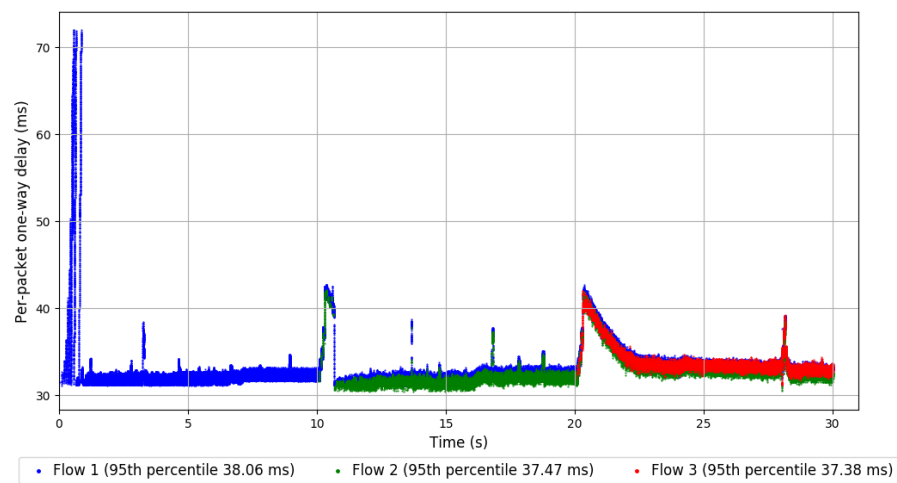
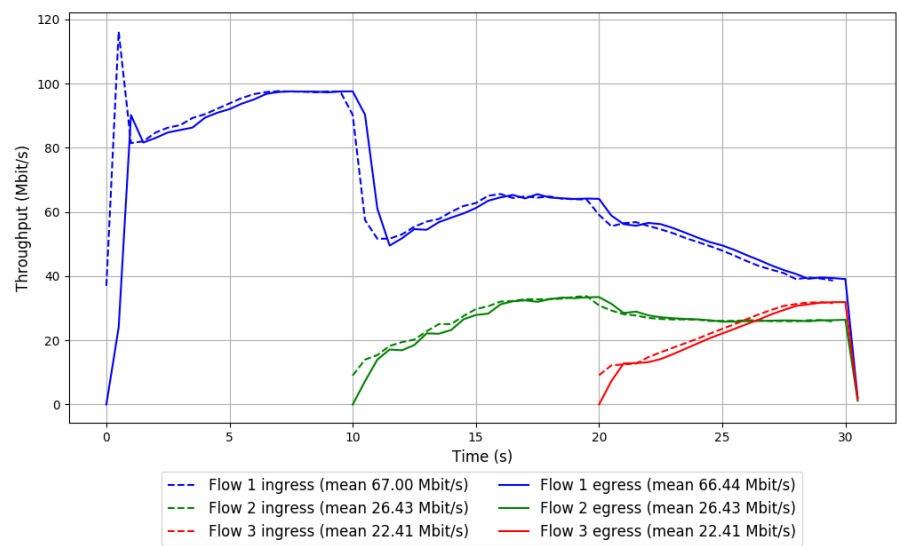
-- Flow 3:

Average throughput: 22.41 Mbit/s

95th percentile per-packet one-way delay: 37.376 ms

Loss rate: 0.01%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-07-03 19:36:25

End at: 2018-07-03 19:36:55

Local clock offset: -1.575 ms

Remote clock offset: 8.663 ms

Below is generated by plot.py at 2018-07-03 23:01:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.06 Mbit/s

95th percentile per-packet one-way delay: 48.469 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 33.96 Mbit/s

95th percentile per-packet one-way delay: 47.269 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 72.61 Mbit/s

95th percentile per-packet one-way delay: 49.416 ms

Loss rate: 0.58%

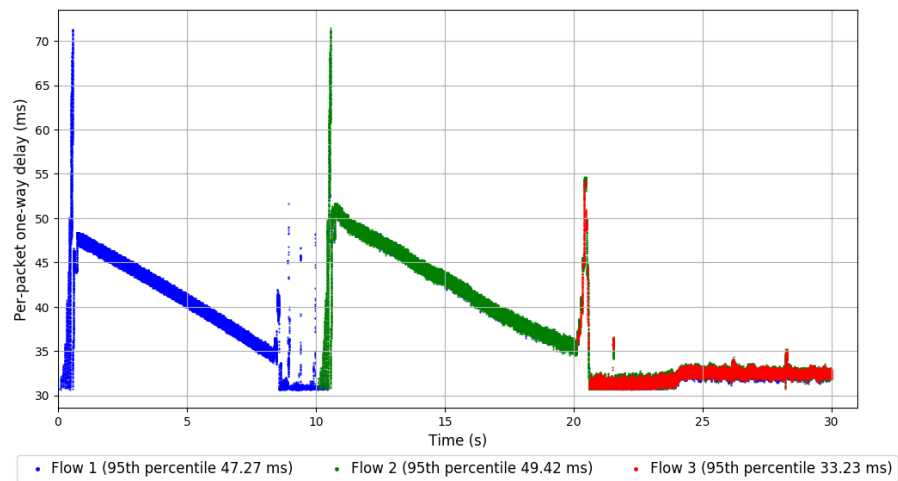
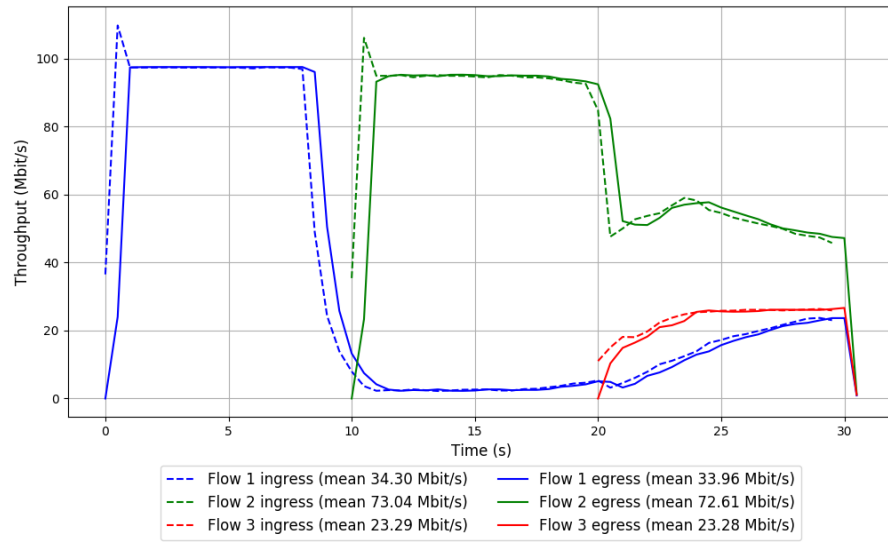
-- Flow 3:

Average throughput: 23.28 Mbit/s

95th percentile per-packet one-way delay: 33.235 ms

Loss rate: 0.11%

Run 4: Report of TCP Vegas — Data Link

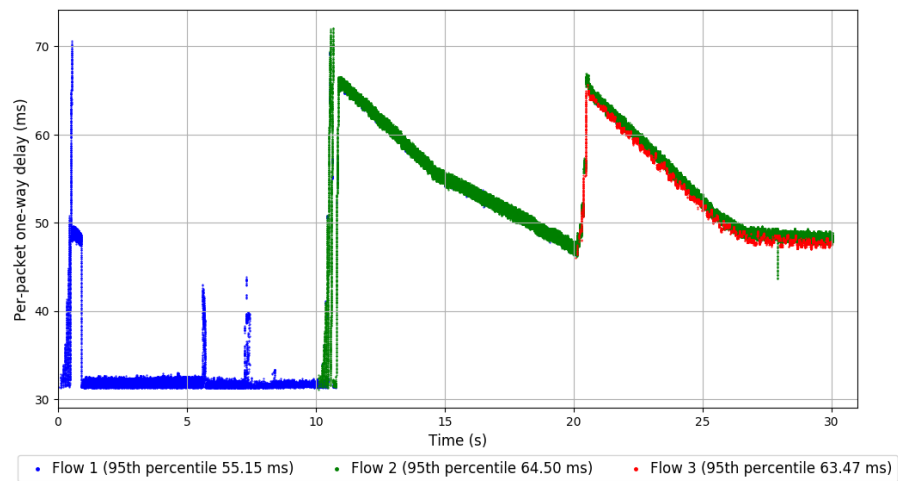
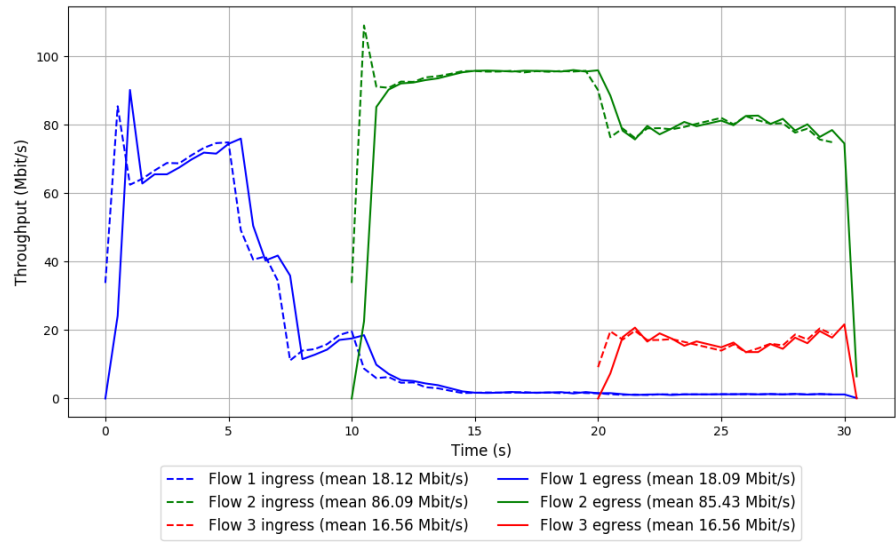


Run 5: Statistics of TCP Vegas

Start at: 2018-07-03 19:59:13
End at: 2018-07-03 19:59:43
Local clock offset: 0.935 ms
Remote clock offset: 11.606 ms

Below is generated by plot.py at 2018-07-03 23:01:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.51 Mbit/s
95th percentile per-packet one-way delay: 64.052 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 18.09 Mbit/s
95th percentile per-packet one-way delay: 55.147 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 85.43 Mbit/s
95th percentile per-packet one-way delay: 64.497 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 16.56 Mbit/s
95th percentile per-packet one-way delay: 63.470 ms
Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/vegas

Run 6: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of TCP Vegas

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/vegas

Run 7: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of TCP Vegas

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/vegas

Run 8: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of TCP Vegas

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/vegas

Run 9: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of TCP Vegas

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/vegas

Run 10: Report of TCP Vegas — Data Link

Figure is missing

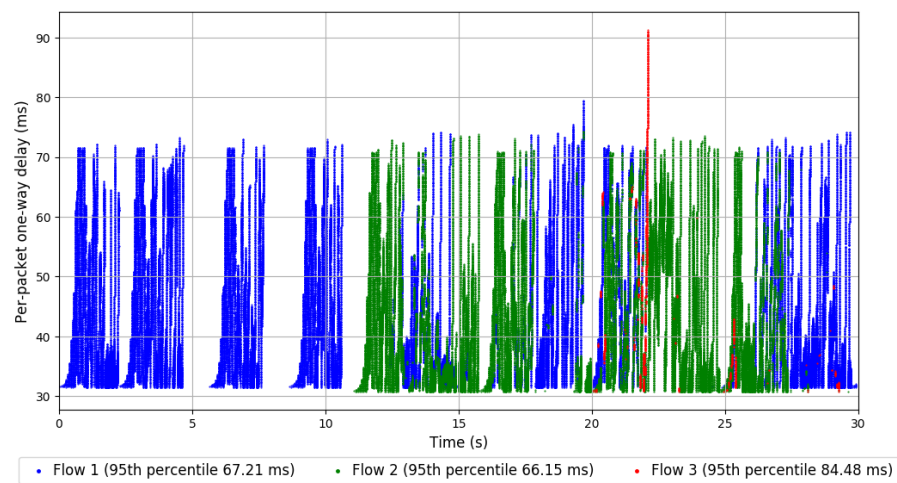
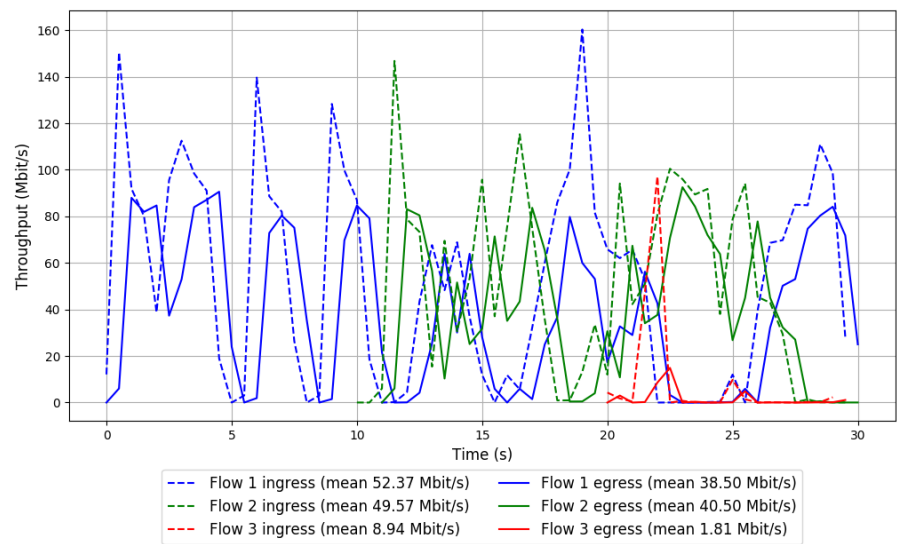
Figure is missing

Run 1: Statistics of Verus

Start at: 2018-07-03 18:20:04
End at: 2018-07-03 18:20:34
Local clock offset: -2.475 ms
Remote clock offset: -2.055 ms

Below is generated by plot.py at 2018-07-03 23:01:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.22 Mbit/s
95th percentile per-packet one-way delay: 66.895 ms
Loss rate: 26.77%
-- Flow 1:
Average throughput: 38.50 Mbit/s
95th percentile per-packet one-way delay: 67.214 ms
Loss rate: 26.49%
-- Flow 2:
Average throughput: 40.50 Mbit/s
95th percentile per-packet one-way delay: 66.149 ms
Loss rate: 22.70%
-- Flow 3:
Average throughput: 1.81 Mbit/s
95th percentile per-packet one-way delay: 84.481 ms
Loss rate: 79.88%

Run 1: Report of Verus — Data Link

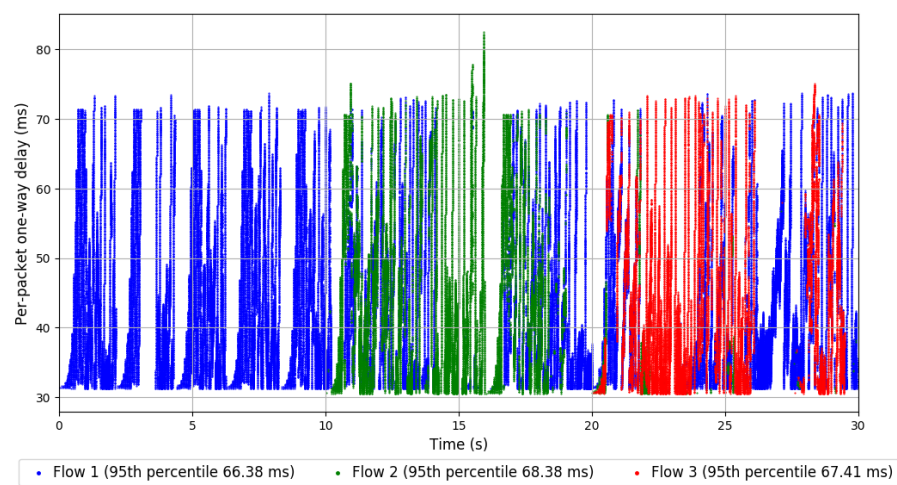
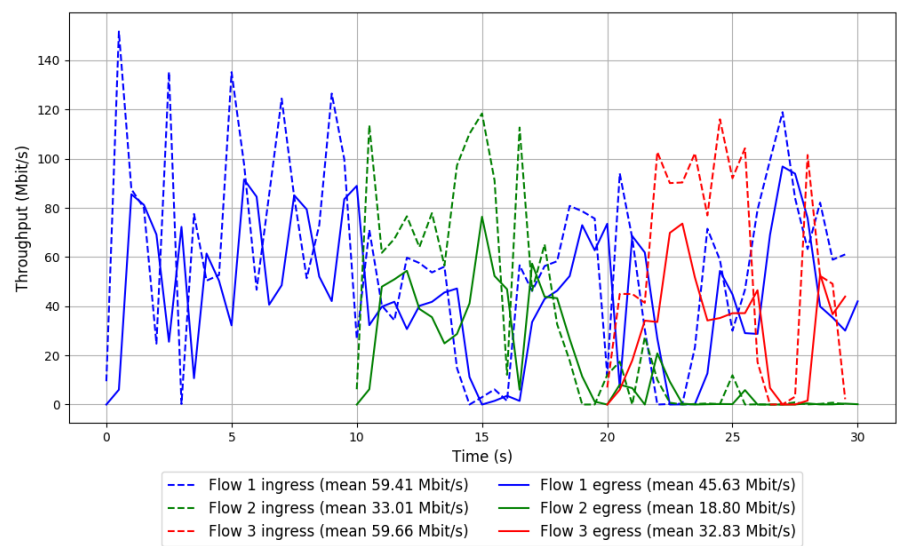


Run 2: Statistics of Verus

Start at: 2018-07-03 18:42:51
End at: 2018-07-03 18:43:21
Local clock offset: -2.957 ms
Remote clock offset: -1.976 ms

Below is generated by plot.py at 2018-07-03 23:01:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.46 Mbit/s
95th percentile per-packet one-way delay: 66.949 ms
Loss rate: 31.79%
-- Flow 1:
Average throughput: 45.63 Mbit/s
95th percentile per-packet one-way delay: 66.381 ms
Loss rate: 23.21%
-- Flow 2:
Average throughput: 18.80 Mbit/s
95th percentile per-packet one-way delay: 68.382 ms
Loss rate: 43.03%
-- Flow 3:
Average throughput: 32.83 Mbit/s
95th percentile per-packet one-way delay: 67.411 ms
Loss rate: 45.63%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-07-03 19:05:35

End at: 2018-07-03 19:06:05

Local clock offset: -2.836 ms

Remote clock offset: 0.821 ms

Below is generated by plot.py at 2018-07-03 23:02:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.16 Mbit/s

95th percentile per-packet one-way delay: 67.154 ms

Loss rate: 37.79%

-- Flow 1:

Average throughput: 47.24 Mbit/s

95th percentile per-packet one-way delay: 67.266 ms

Loss rate: 36.03%

-- Flow 2:

Average throughput: 19.34 Mbit/s

95th percentile per-packet one-way delay: 66.037 ms

Loss rate: 31.26%

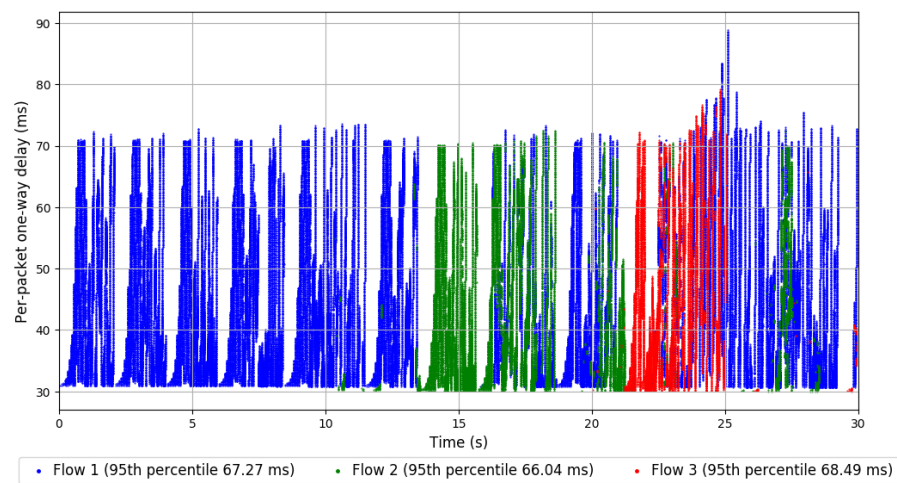
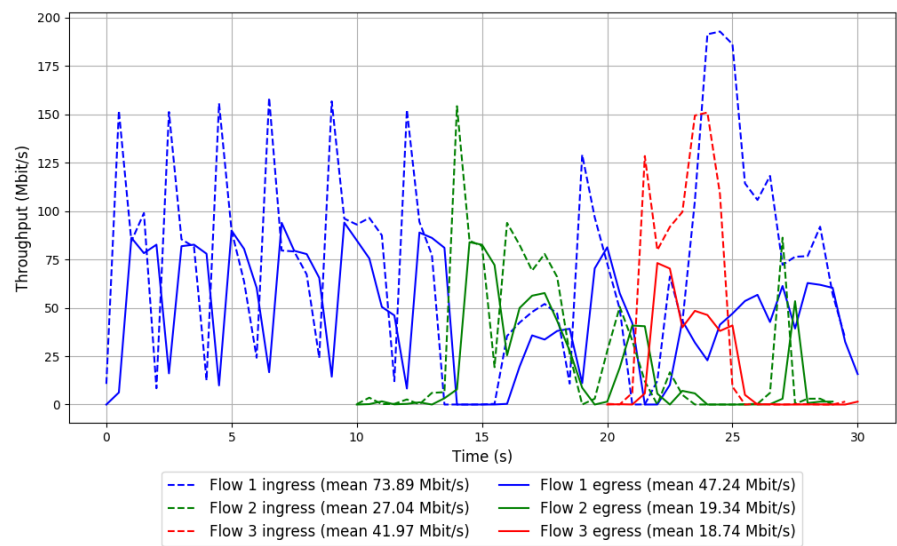
-- Flow 3:

Average throughput: 18.74 Mbit/s

95th percentile per-packet one-way delay: 68.486 ms

Loss rate: 55.30%

Run 3: Report of Verus — Data Link

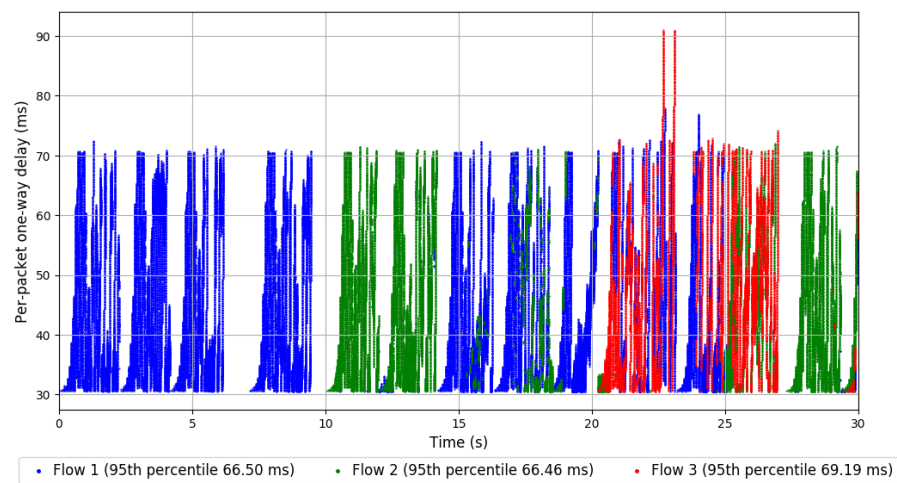
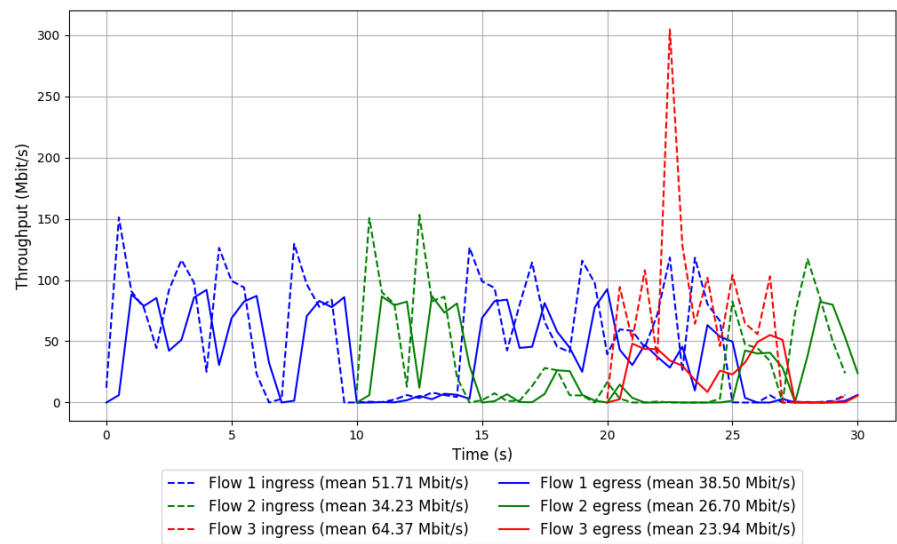


Run 4: Statistics of Verus

Start at: 2018-07-03 19:28:20
End at: 2018-07-03 19:28:50
Local clock offset: -2.585 ms
Remote clock offset: 7.554 ms

```
# Below is generated by plot.py at 2018-07-03 23:02:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.12 Mbit/s
95th percentile per-packet one-way delay: 66.854 ms
Loss rate: 32.90%
-- Flow 1:
Average throughput: 38.50 Mbit/s
95th percentile per-packet one-way delay: 66.500 ms
Loss rate: 25.47%
-- Flow 2:
Average throughput: 26.70 Mbit/s
95th percentile per-packet one-way delay: 66.460 ms
Loss rate: 21.87%
-- Flow 3:
Average throughput: 23.94 Mbit/s
95th percentile per-packet one-way delay: 69.194 ms
Loss rate: 62.80%
```

Run 4: Report of Verus — Data Link

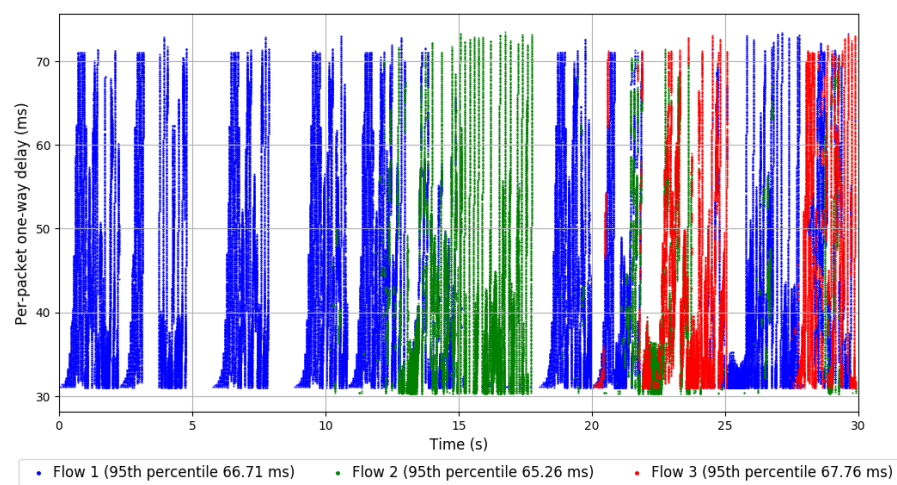
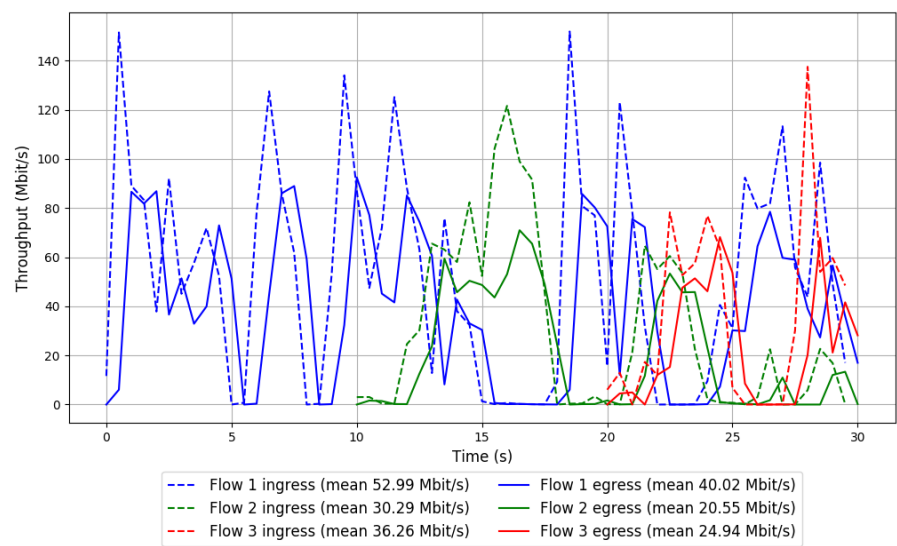


Run 5: Statistics of Verus

Start at: 2018-07-03 19:51:10
End at: 2018-07-03 19:51:40
Local clock offset: 0.539 ms
Remote clock offset: 10.209 ms

Below is generated by plot.py at 2018-07-03 23:02:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 61.84 Mbit/s
95th percentile per-packet one-way delay: 66.613 ms
Loss rate: 27.21%
-- Flow 1:
Average throughput: 40.02 Mbit/s
95th percentile per-packet one-way delay: 66.714 ms
Loss rate: 24.39%
-- Flow 2:
Average throughput: 20.55 Mbit/s
95th percentile per-packet one-way delay: 65.263 ms
Loss rate: 32.25%
-- Flow 3:
Average throughput: 24.94 Mbit/s
95th percentile per-packet one-way delay: 67.761 ms
Loss rate: 31.21%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/verus

Run 6: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of Verus

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/verus

Run 7: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of Verus

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/verus

Run 8: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of Verus

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/verus

Run 9: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of Verus

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/verus

Run 10: Report of Verus — Data Link

Figure is missing

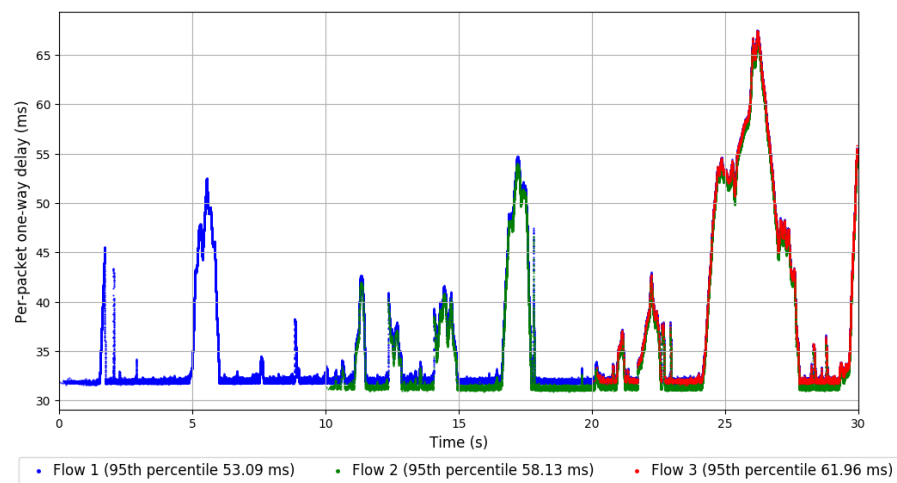
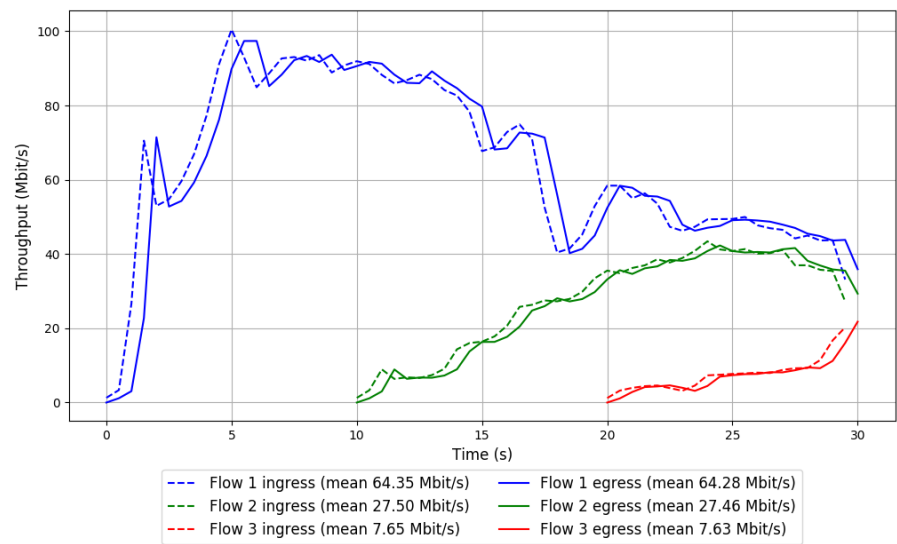
Figure is missing

Run 1: Statistics of PCC-Vivace

Start at: 2018-07-03 18:30:44
End at: 2018-07-03 18:31:14
Local clock offset: -3.068 ms
Remote clock offset: -1.721 ms

Below is generated by plot.py at 2018-07-03 23:02:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.07 Mbit/s
95th percentile per-packet one-way delay: 54.437 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 64.28 Mbit/s
95th percentile per-packet one-way delay: 53.090 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 27.46 Mbit/s
95th percentile per-packet one-way delay: 58.129 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 7.63 Mbit/s
95th percentile per-packet one-way delay: 61.964 ms
Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link

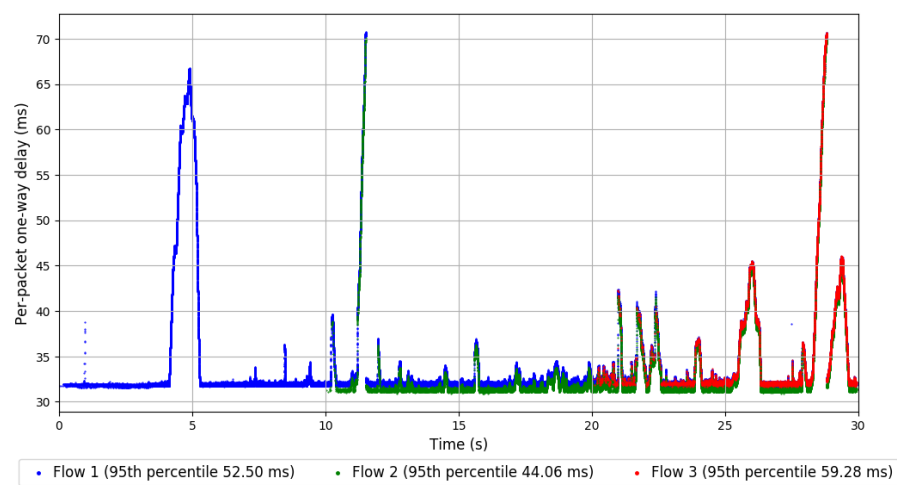
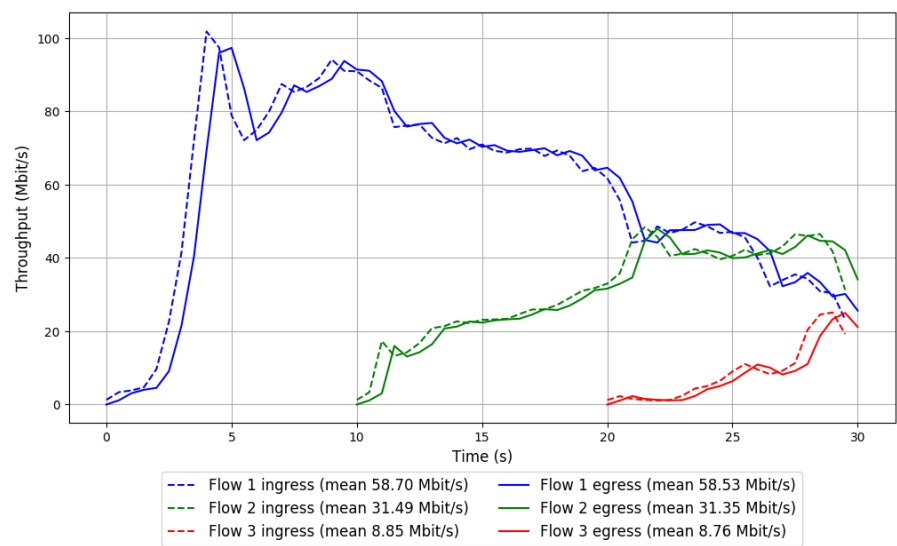


Run 2: Statistics of PCC-Vivace

Start at: 2018-07-03 18:53:30
End at: 2018-07-03 18:54:00
Local clock offset: -2.93 ms
Remote clock offset: -1.317 ms

Below is generated by plot.py at 2018-07-03 23:02:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.27 Mbit/s
95th percentile per-packet one-way delay: 48.840 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 58.53 Mbit/s
95th percentile per-packet one-way delay: 52.497 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 31.35 Mbit/s
95th percentile per-packet one-way delay: 44.059 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 8.76 Mbit/s
95th percentile per-packet one-way delay: 59.278 ms
Loss rate: 1.13%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-07-03 19:16:14

End at: 2018-07-03 19:16:44

Local clock offset: -2.638 ms

Remote clock offset: 5.331 ms

Below is generated by plot.py at 2018-07-03 23:02:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.16 Mbit/s

95th percentile per-packet one-way delay: 46.180 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 65.01 Mbit/s

95th percentile per-packet one-way delay: 41.610 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 22.54 Mbit/s

95th percentile per-packet one-way delay: 49.020 ms

Loss rate: 0.01%

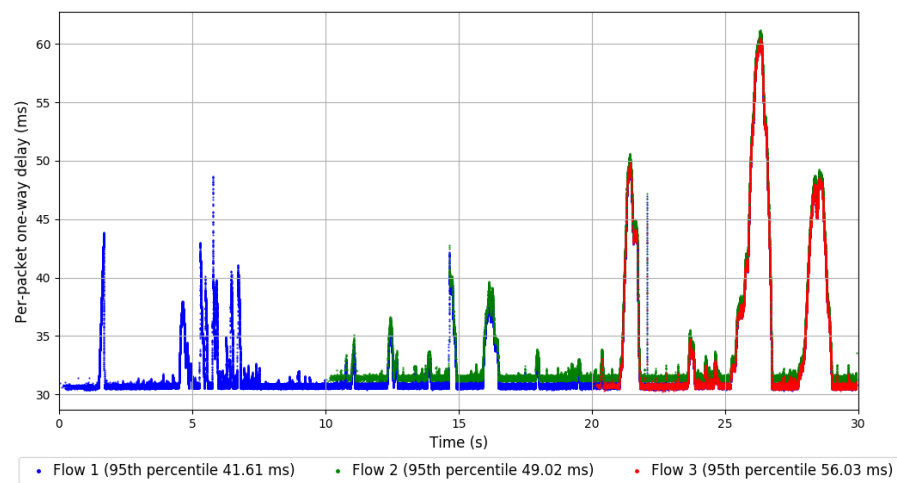
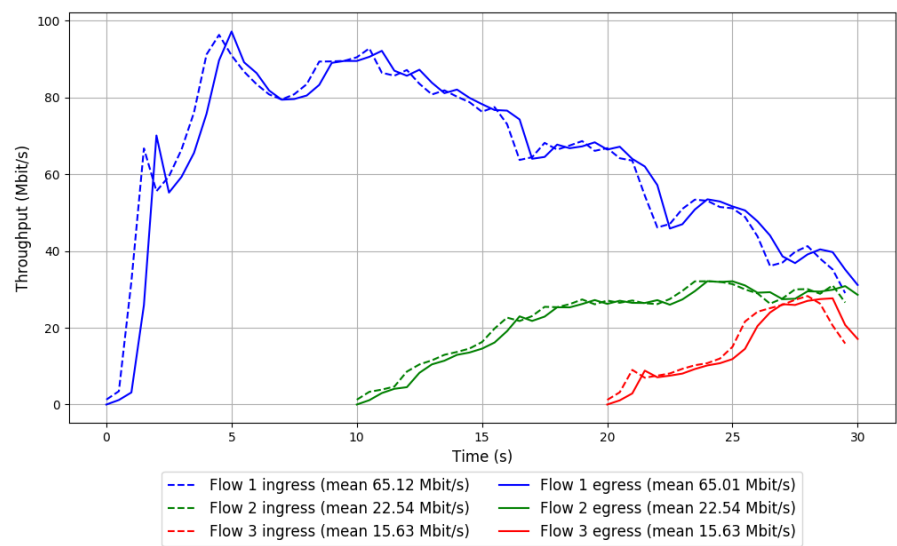
-- Flow 3:

Average throughput: 15.63 Mbit/s

95th percentile per-packet one-way delay: 56.033 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-07-03 19:39:02

End at: 2018-07-03 19:39:32

Local clock offset: -0.93 ms

Remote clock offset: 8.952 ms

Below is generated by plot.py at 2018-07-03 23:02:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.83 Mbit/s

95th percentile per-packet one-way delay: 52.262 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 65.08 Mbit/s

95th percentile per-packet one-way delay: 52.418 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 26.20 Mbit/s

95th percentile per-packet one-way delay: 52.766 ms

Loss rate: 0.26%

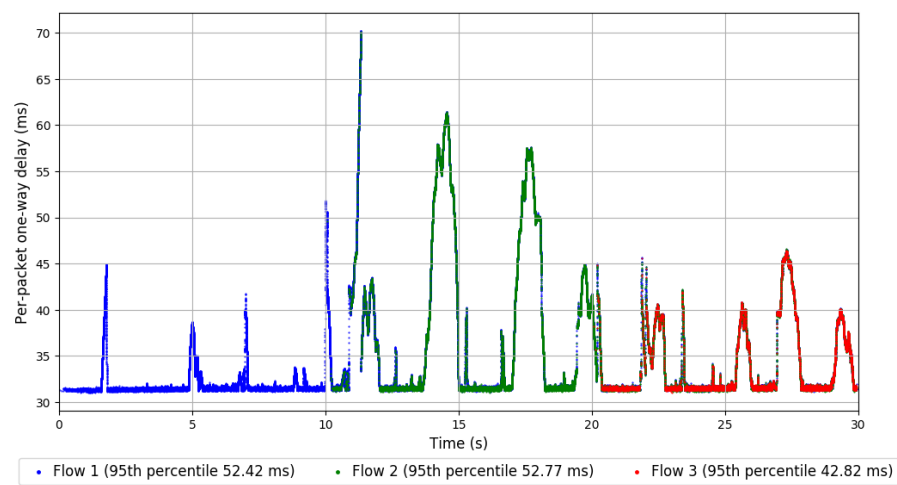
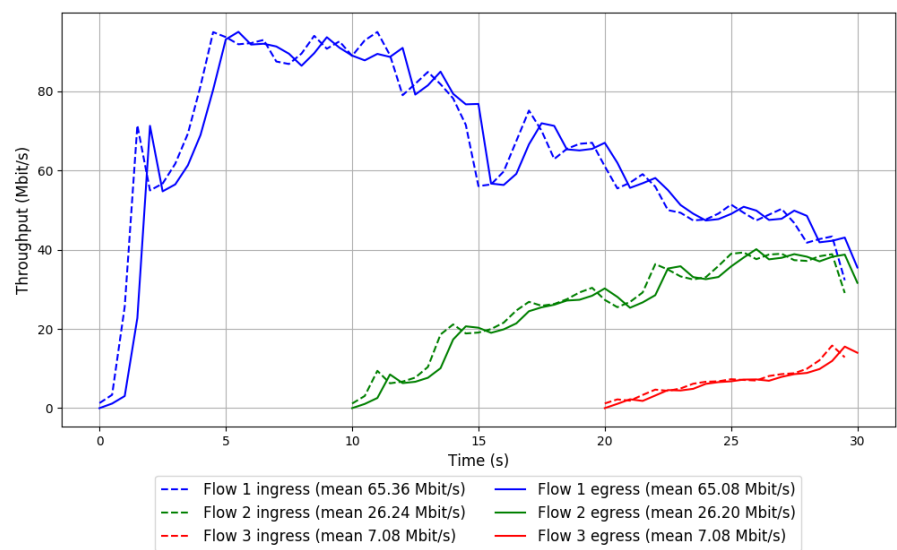
-- Flow 3:

Average throughput: 7.08 Mbit/s

95th percentile per-packet one-way delay: 42.822 ms

Loss rate: 0.04%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-07-03 20:01:48

End at: 2018-07-03 20:02:18

Local clock offset: 1.153 ms

Remote clock offset: 12.165 ms

Run 5: Report of PCC-Vivace — Data Link

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Run 6: Statistics of PCC-Vivace

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/viva

Run 6: Report of PCC-Vivace — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Vivace

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/viva

Run 7: Report of PCC-Vivace — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Vivace

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/viva

Run 8: Report of PCC-Vivace — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Vivace

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/viva

Run 9: Report of PCC-Vivace — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Vivace

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/viva

Run 10: Report of PCC-Vivace — Data Link

Figure is missing

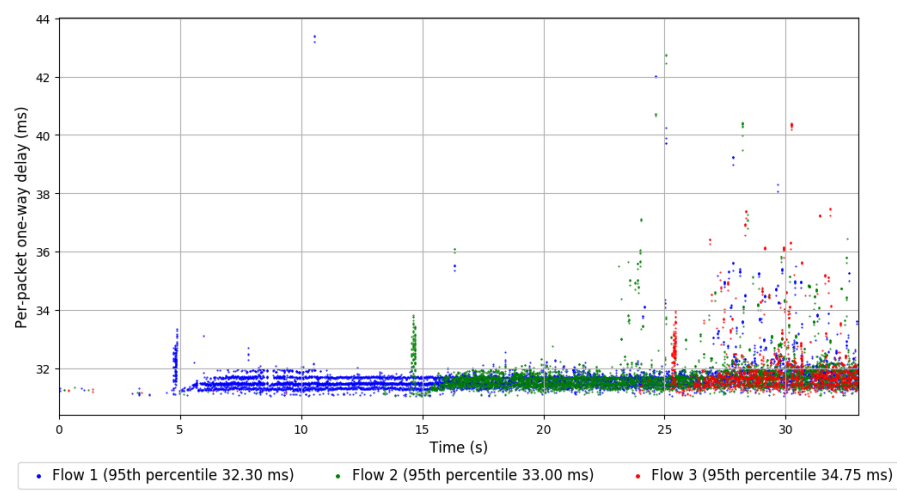
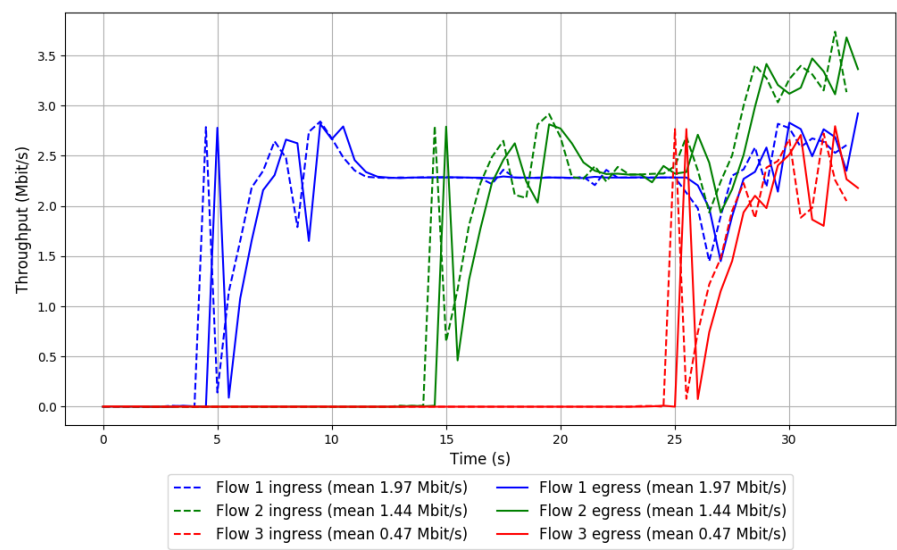
Figure is missing

Run 1: Statistics of WebRTC media

Start at: 2018-07-03 18:24:08
End at: 2018-07-03 18:24:38
Local clock offset: -2.751 ms
Remote clock offset: -2.324 ms

Below is generated by plot.py at 2018-07-03 23:02:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.86 Mbit/s
95th percentile per-packet one-way delay: 32.930 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 32.305 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 32.999 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 34.748 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

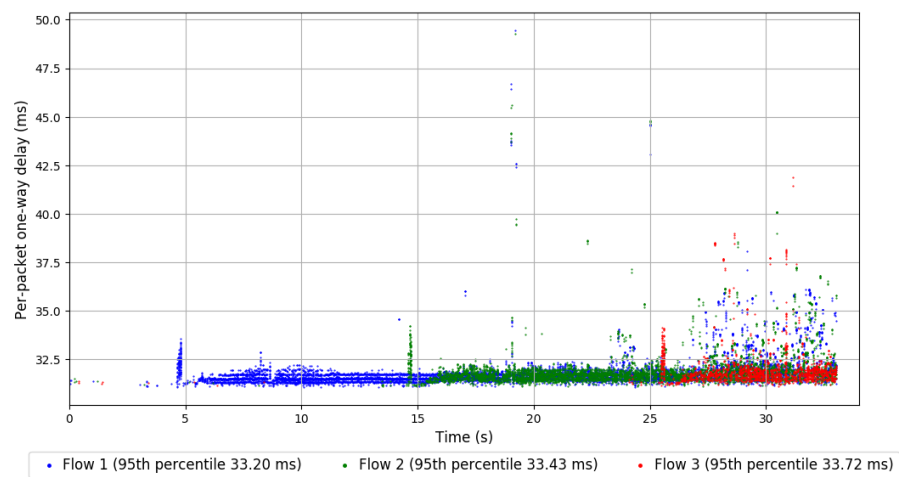
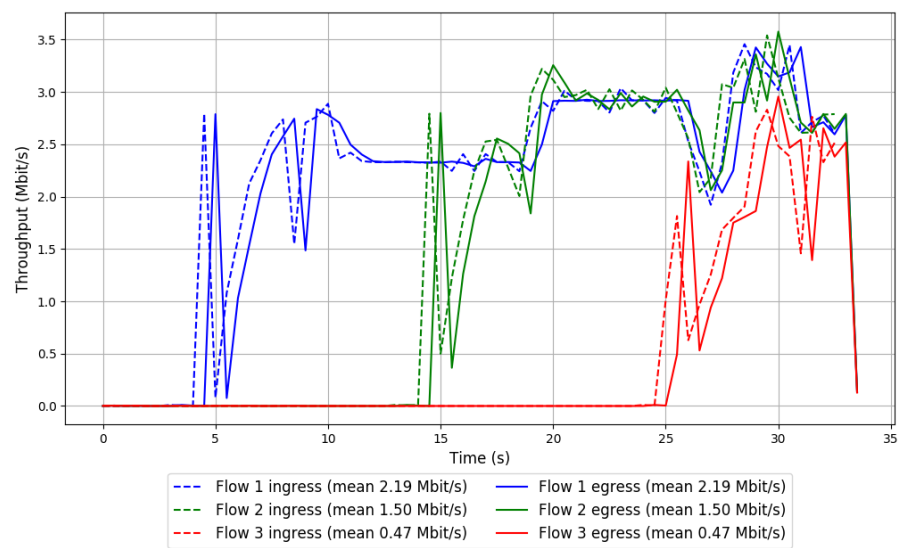


Run 2: Statistics of WebRTC media

Start at: 2018-07-03 18:46:56
End at: 2018-07-03 18:47:26
Local clock offset: -2.945 ms
Remote clock offset: -1.871 ms

Below is generated by plot.py at 2018-07-03 23:02:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.14 Mbit/s
95th percentile per-packet one-way delay: 33.332 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 33.202 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 1.50 Mbit/s
95th percentile per-packet one-way delay: 33.428 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 33.718 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-07-03 19:09:39

End at: 2018-07-03 19:10:09

Local clock offset: -2.752 ms

Remote clock offset: 3.583 ms

Below is generated by plot.py at 2018-07-03 23:02:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.76 Mbit/s

95th percentile per-packet one-way delay: 32.821 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 32.251 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 33.091 ms

Loss rate: 0.00%

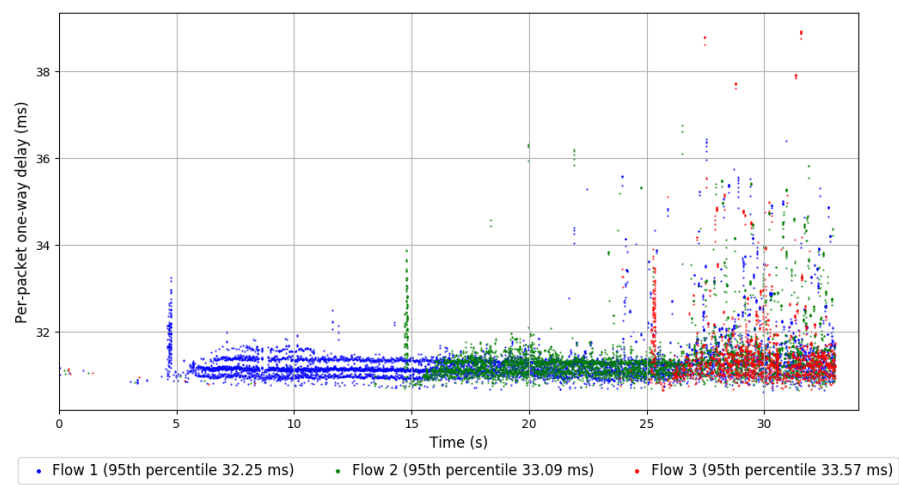
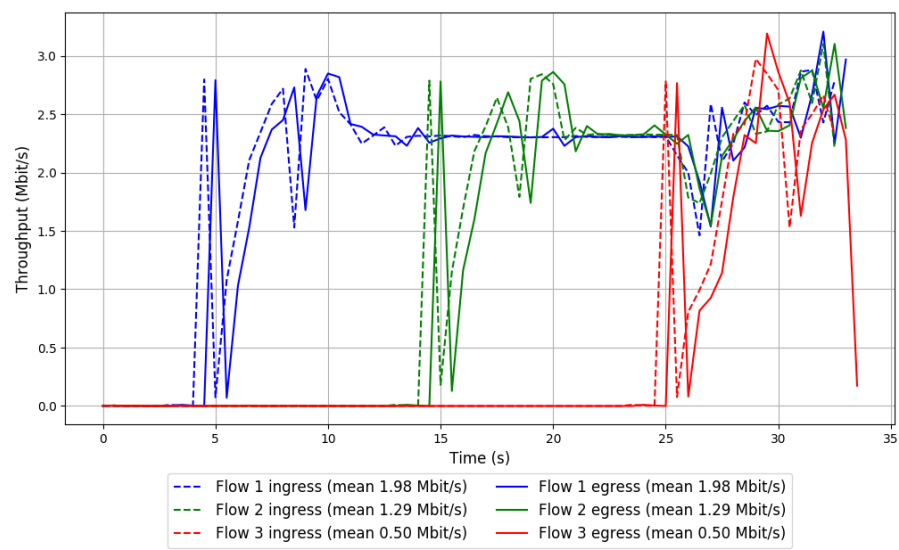
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 33.567 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-07-03 19:32:25

End at: 2018-07-03 19:32:55

Local clock offset: -2.583 ms

Remote clock offset: 8.349 ms

Below is generated by plot.py at 2018-07-03 23:02:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.74 Mbit/s

95th percentile per-packet one-way delay: 33.649 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 33.374 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 33.888 ms

Loss rate: 0.00%

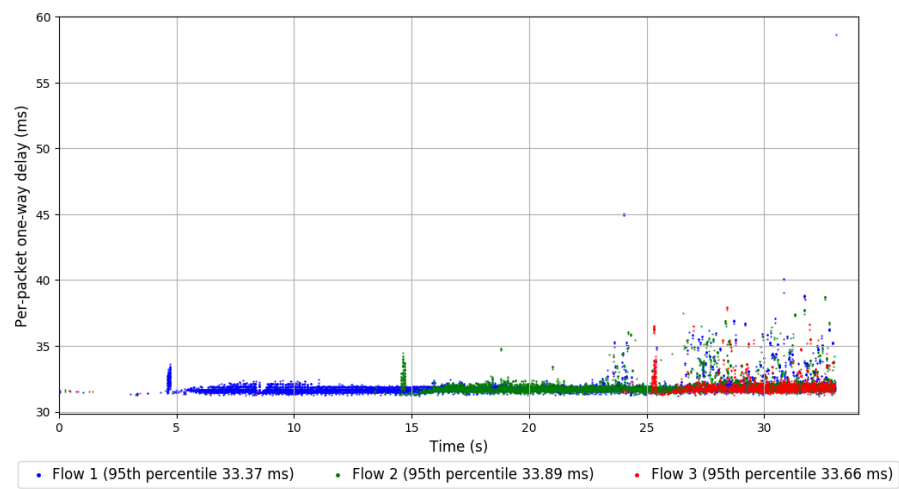
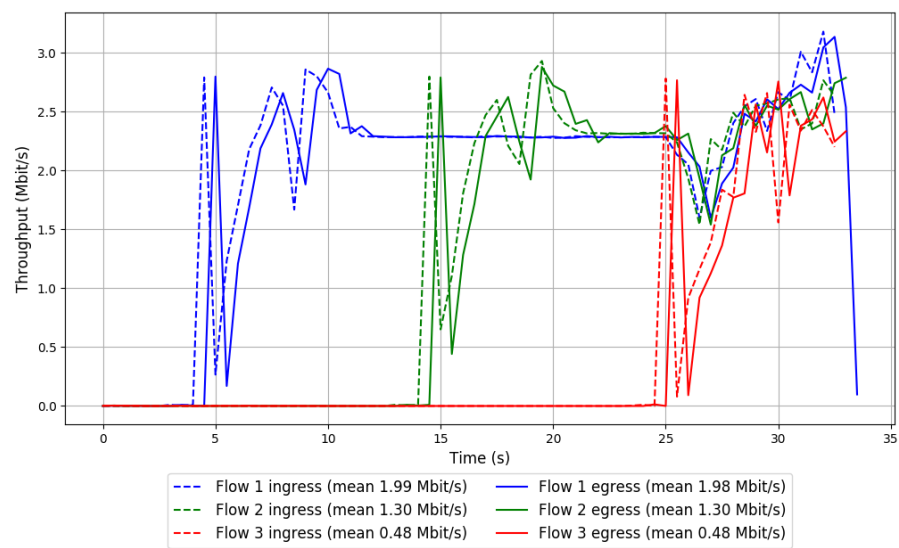
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 33.655 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

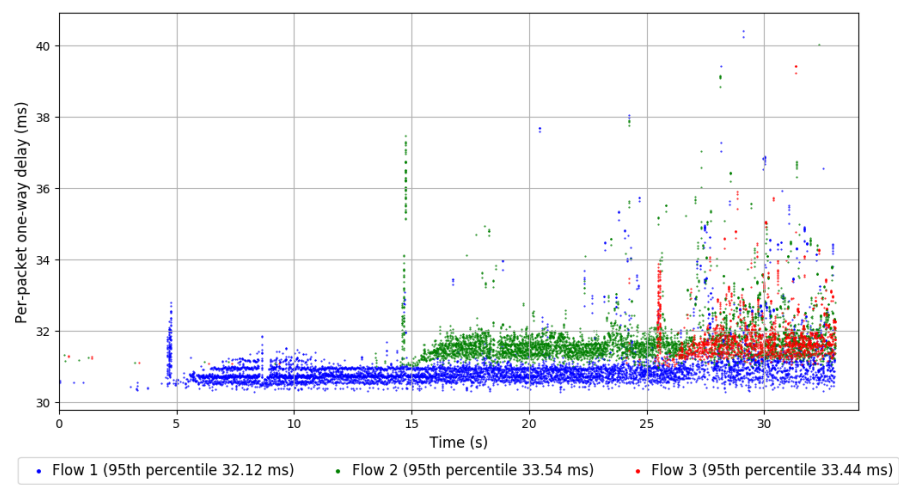
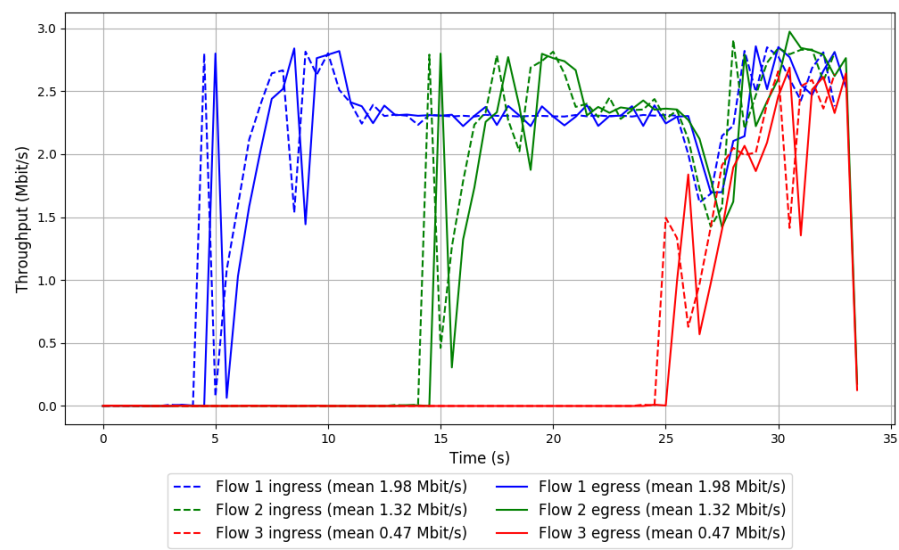


Run 5: Statistics of WebRTC media

Start at: 2018-07-03 19:55:14
End at: 2018-07-03 19:55:44
Local clock offset: 0.805 ms
Remote clock offset: 10.924 ms

Below is generated by plot.py at 2018-07-03 23:02:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.74 Mbit/s
95th percentile per-packet one-way delay: 32.978 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 32.119 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 33.544 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 33.441 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/webrtc

Run 6: Report of WebRTC media — Data Link

Figure is missing

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Run 7: Statistics of WebRTC media

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/webrtc

Run 7: Report of WebRTC media — Data Link

Figure is missing

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Run 8: Statistics of WebRTC media

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/webrtc

Run 8: Report of WebRTC media — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of WebRTC media

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/webrtc

Run 9: Report of WebRTC media — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of WebRTC media

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/webrtc

Run 10: Report of WebRTC media — Data Link

Figure is missing

Figure is missing