

Pantheon Report

Generated at 2018-06-01 16:53:37 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

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

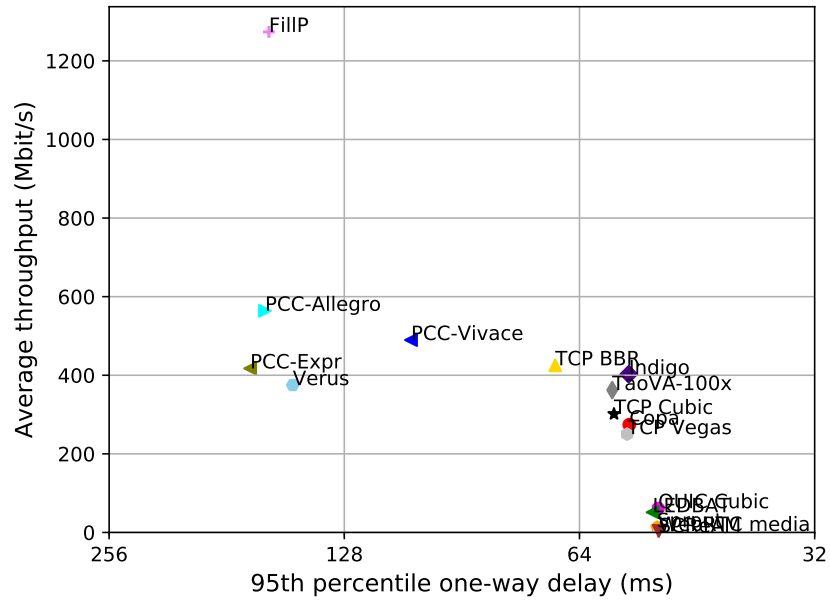
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

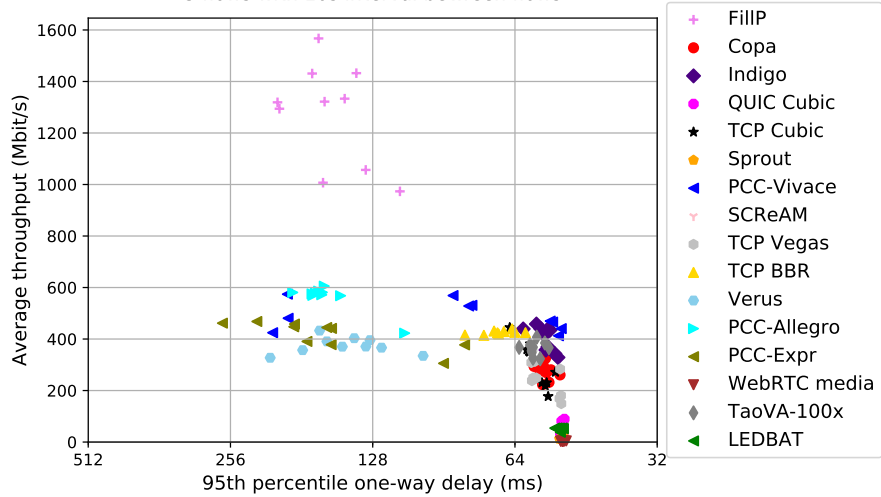
Git summary:

```
branch: master @ 227fdf9a3757f17b88537cceed5743a33037a3d2
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webRTC @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from GCE London to GCE Iowa, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE London to GCE Iowa, 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	10	217.81	211.69	200.30	66.84	68.87	71.34	0.04	0.04	0.12
Copa	10	168.31	108.36	109.98	54.73	55.14	57.04	0.00	0.00	0.01
TCP Cubic	10	170.60	141.80	110.01	57.76	56.96	57.64	0.02	0.00	0.07
FillP	10	685.90	626.88	515.63	149.58	148.07	149.85	3.18	3.55	2.42
Indigo	10	210.88	204.72	172.75	54.37	55.87	56.32	0.01	0.01	0.02
LEDBAT	10	32.74	22.76	10.50	51.67	51.48	51.15	0.00	0.00	0.02
PCC-Allegro	10	509.15	55.86	53.68	162.09	158.33	152.20	1.02	1.00	1.44
PCC-Expr	10	250.85	197.36	106.69	154.04	156.87	120.03	1.50	2.23	2.41
QUIC Cubic	10	21.77	42.67	35.42	50.45	50.62	50.31	0.00	0.00	0.00
SCReAM	10	0.22	0.22	0.22	50.51	50.46	50.29	0.00	0.00	0.00
Sprout	10	6.68	6.73	6.21	50.90	50.95	50.83	0.00	0.00	0.02
TaoVA-100x	10	190.76	182.46	150.03	55.51	59.28	58.31	0.00	0.01	0.01
TCP Vegas	10	148.03	100.21	106.74	54.87	54.34	54.63	0.00	0.01	0.03
Verus	10	219.69	180.39	115.72	146.92	147.70	170.23	0.84	0.51	1.24
PCC-Vivace	10	286.11	251.24	110.45	84.01	84.33	72.69	0.06	0.18	0.15
WebRTC media	10	2.03	1.27	0.52	50.59	50.45	50.41	0.00	0.02	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-06-01 10:16:32

End at: 2018-06-01 10:17:02

Local clock offset: -0.068 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2018-06-01 14:22:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 419.63 Mbit/s

95th percentile per-packet one-way delay: 69.308 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 215.99 Mbit/s

95th percentile per-packet one-way delay: 68.380 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 207.99 Mbit/s

95th percentile per-packet one-way delay: 69.217 ms

Loss rate: 0.08%

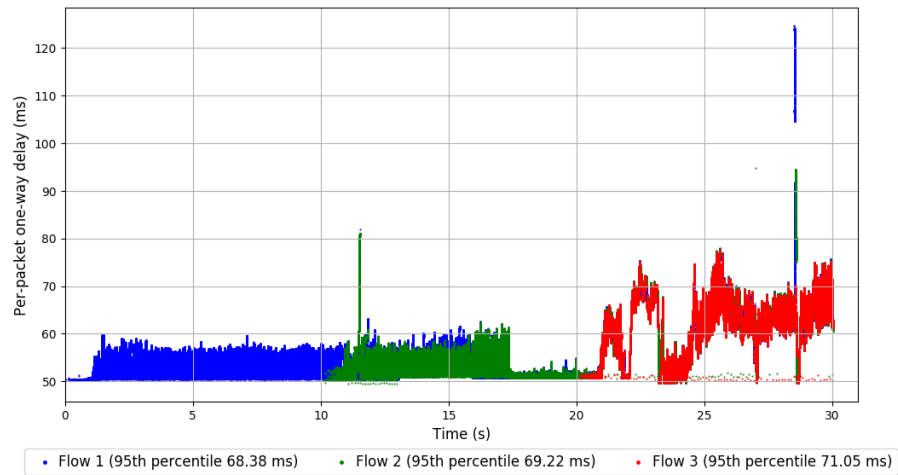
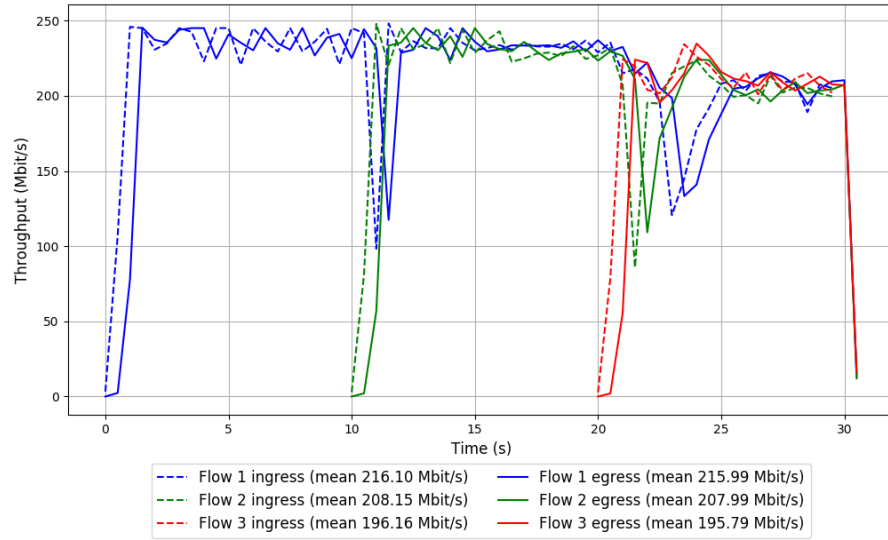
-- Flow 3:

Average throughput: 195.79 Mbit/s

95th percentile per-packet one-way delay: 71.047 ms

Loss rate: 0.19%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-06-01 10:39:59

End at: 2018-06-01 10:40:29

Local clock offset: -0.056 ms

Remote clock offset: 0.068 ms

Below is generated by plot.py at 2018-06-01 14:22:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 415.45 Mbit/s

95th percentile per-packet one-way delay: 81.677 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 214.33 Mbit/s

95th percentile per-packet one-way delay: 77.854 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 205.34 Mbit/s

95th percentile per-packet one-way delay: 81.675 ms

Loss rate: 0.01%

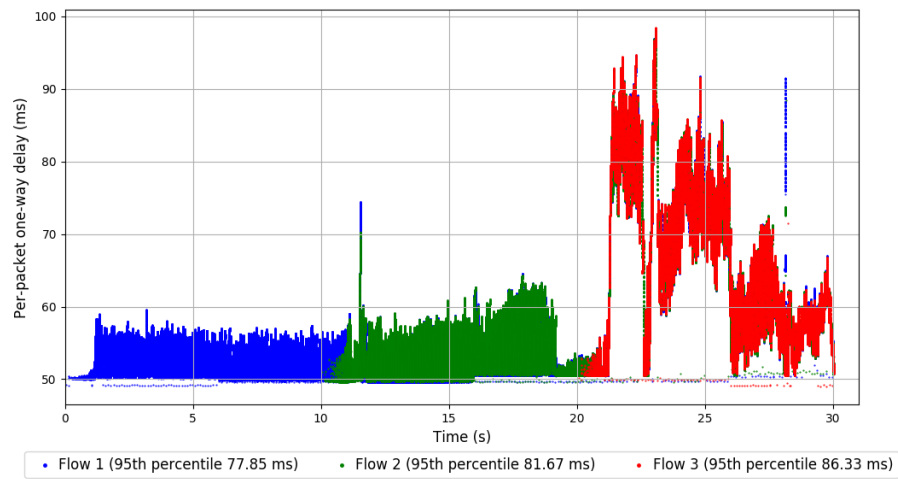
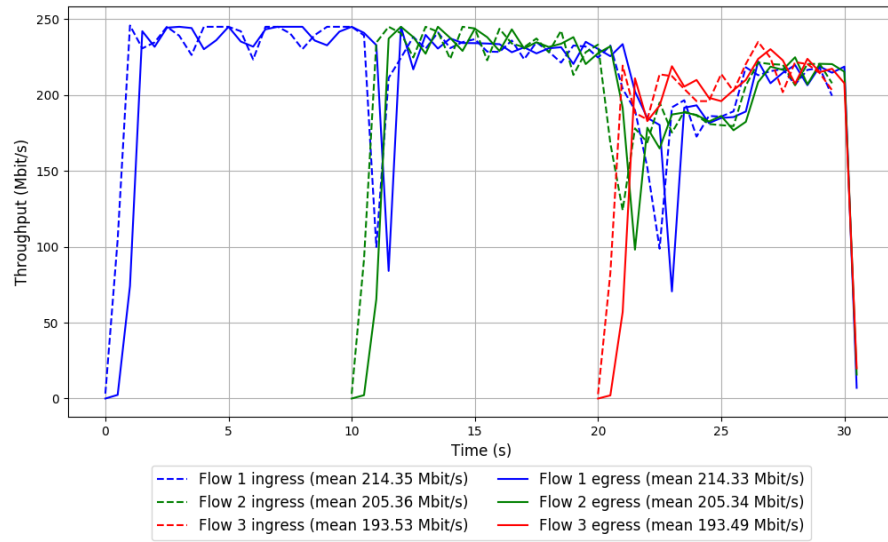
-- Flow 3:

Average throughput: 193.49 Mbit/s

95th percentile per-packet one-way delay: 86.333 ms

Loss rate: 0.03%

Run 2: Report of TCP BBR — Data Link

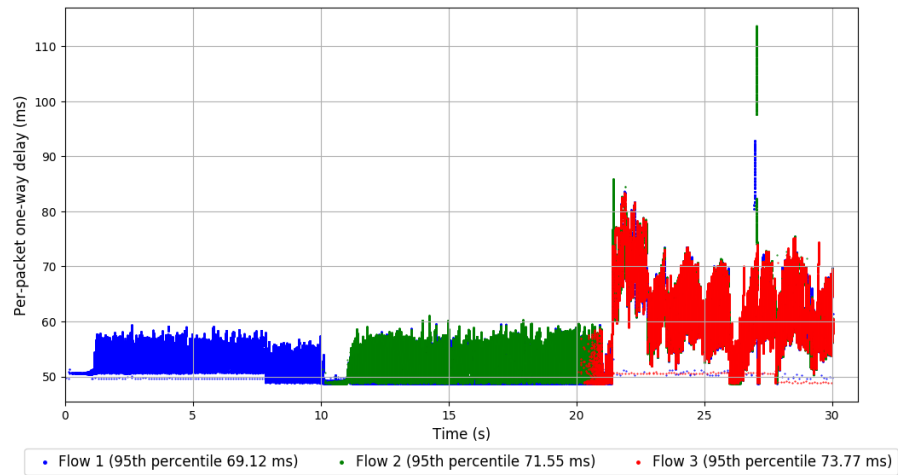
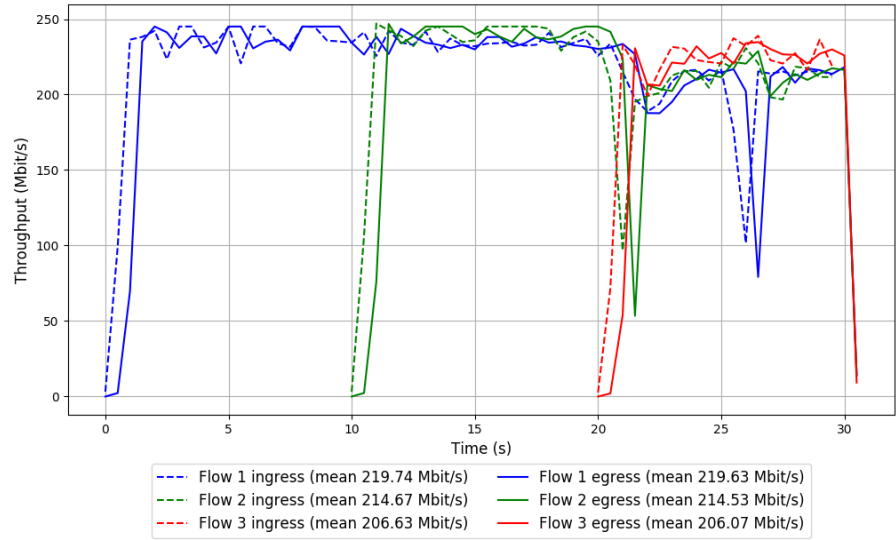


Run 3: Statistics of TCP BBR

Start at: 2018-06-01 11:03:17
End at: 2018-06-01 11:03:47
Local clock offset: -0.023 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-06-01 14:22:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 431.08 Mbit/s
95th percentile per-packet one-way delay: 70.860 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 219.63 Mbit/s
95th percentile per-packet one-way delay: 69.123 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 214.53 Mbit/s
95th percentile per-packet one-way delay: 71.552 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 206.07 Mbit/s
95th percentile per-packet one-way delay: 73.768 ms
Loss rate: 0.26%

Run 3: Report of TCP BBR — Data Link

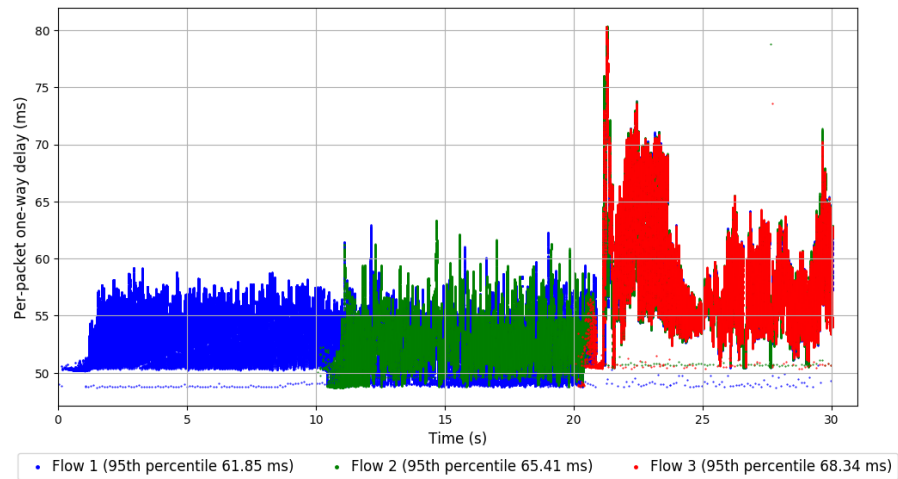
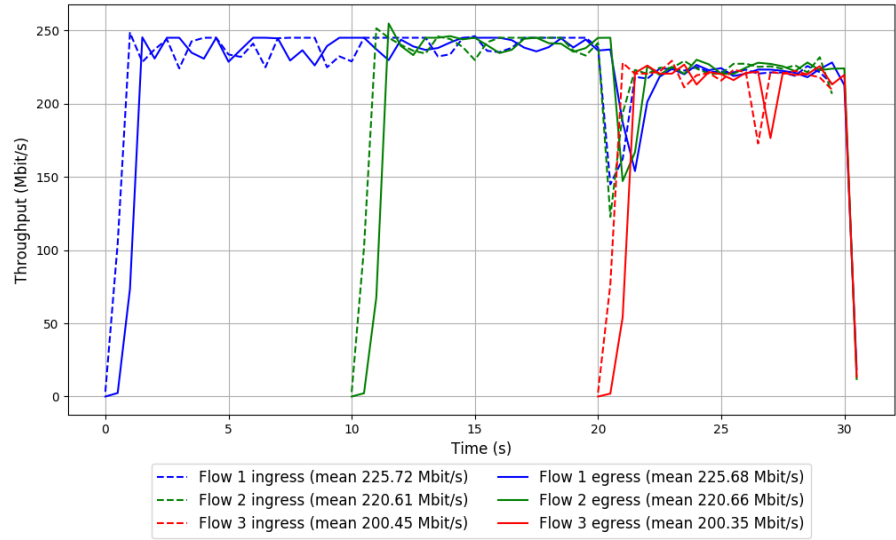


Run 4: Statistics of TCP BBR

Start at: 2018-06-01 11:26:24
End at: 2018-06-01 11:26:54
Local clock offset: -0.013 ms
Remote clock offset: -0.059 ms

Below is generated by plot.py at 2018-06-01 14:23:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 439.22 Mbit/s
95th percentile per-packet one-way delay: 64.883 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 225.68 Mbit/s
95th percentile per-packet one-way delay: 61.849 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 220.66 Mbit/s
95th percentile per-packet one-way delay: 65.410 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 200.35 Mbit/s
95th percentile per-packet one-way delay: 68.341 ms
Loss rate: 0.06%

Run 4: Report of TCP BBR — Data Link

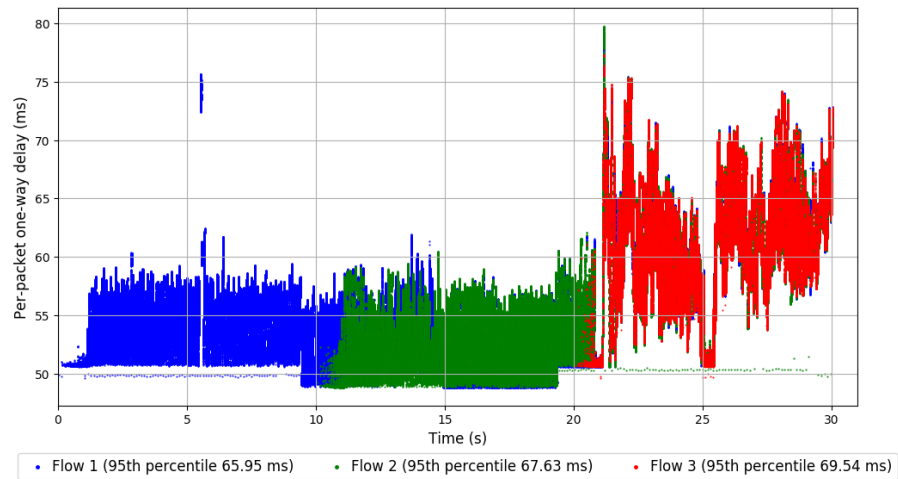
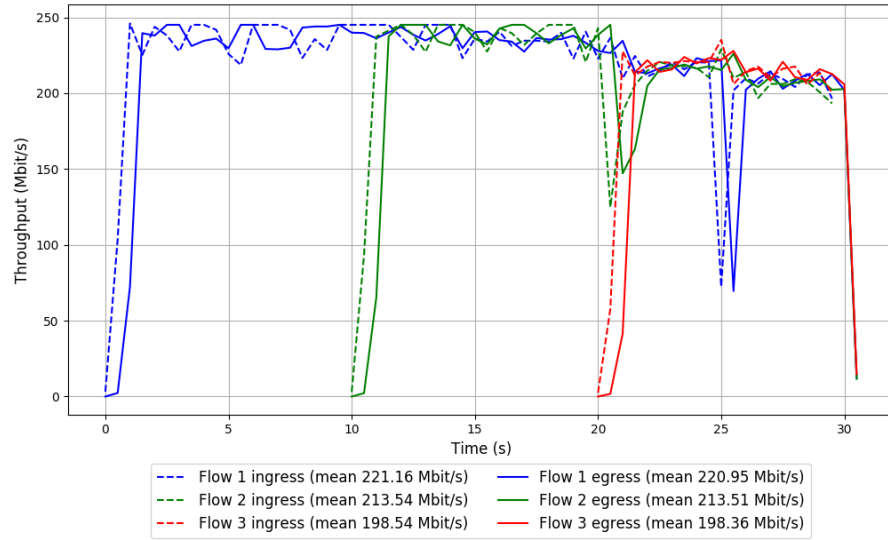


Run 5: Statistics of TCP BBR

Start at: 2018-06-01 11:49:45
End at: 2018-06-01 11:50:15
Local clock offset: -0.037 ms
Remote clock offset: -0.023 ms

Below is generated by plot.py at 2018-06-01 14:23:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 429.07 Mbit/s
95th percentile per-packet one-way delay: 67.569 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 220.95 Mbit/s
95th percentile per-packet one-way delay: 65.950 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 213.51 Mbit/s
95th percentile per-packet one-way delay: 67.633 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 198.36 Mbit/s
95th percentile per-packet one-way delay: 69.541 ms
Loss rate: 0.10%

Run 5: Report of TCP BBR — Data Link

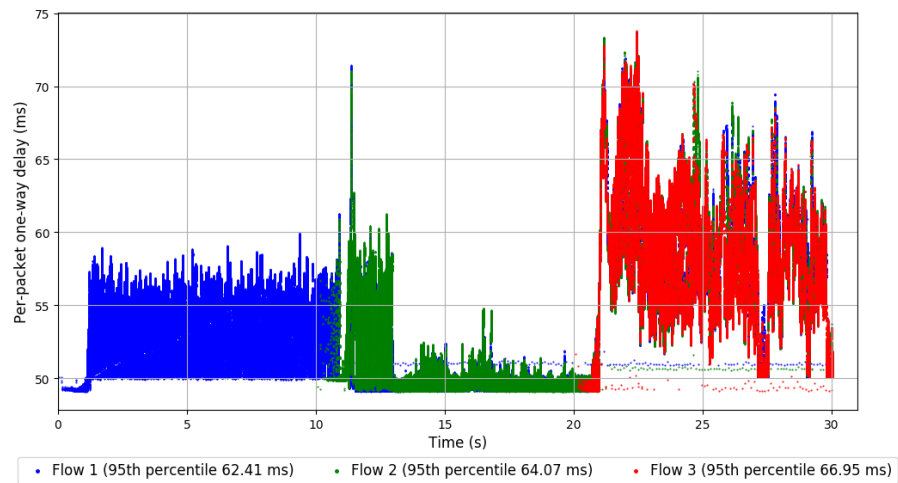
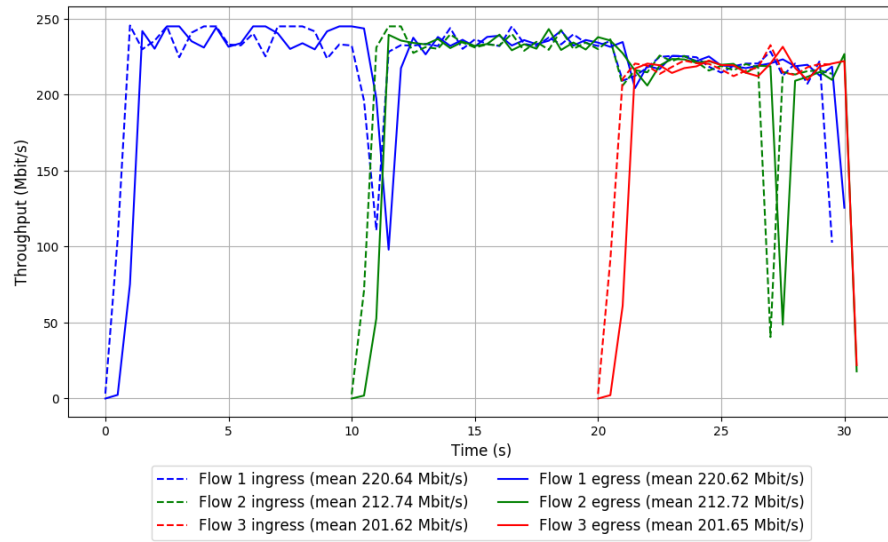


Run 6: Statistics of TCP BBR

Start at: 2018-06-01 12:12:53
End at: 2018-06-01 12:13:23
Local clock offset: -0.37 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-06-01 14:23:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 429.07 Mbit/s
95th percentile per-packet one-way delay: 64.024 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 220.62 Mbit/s
95th percentile per-packet one-way delay: 62.412 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 212.72 Mbit/s
95th percentile per-packet one-way delay: 64.069 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 201.65 Mbit/s
95th percentile per-packet one-way delay: 66.952 ms
Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link

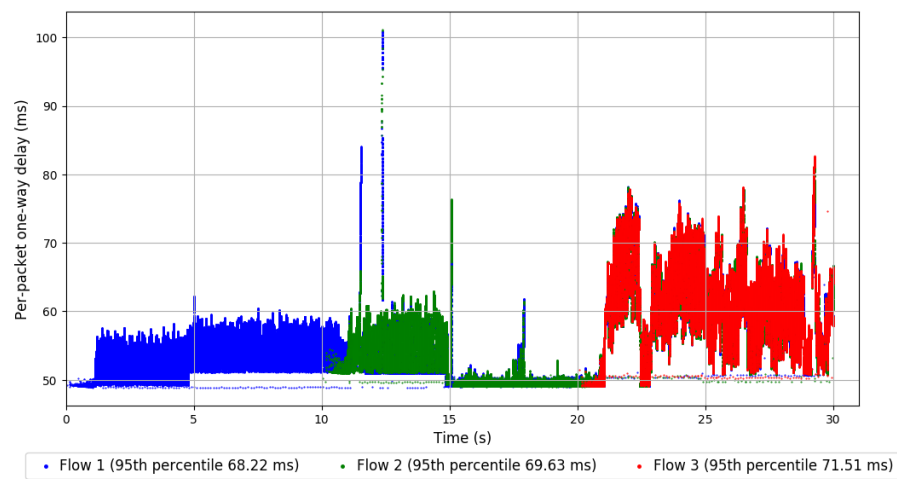
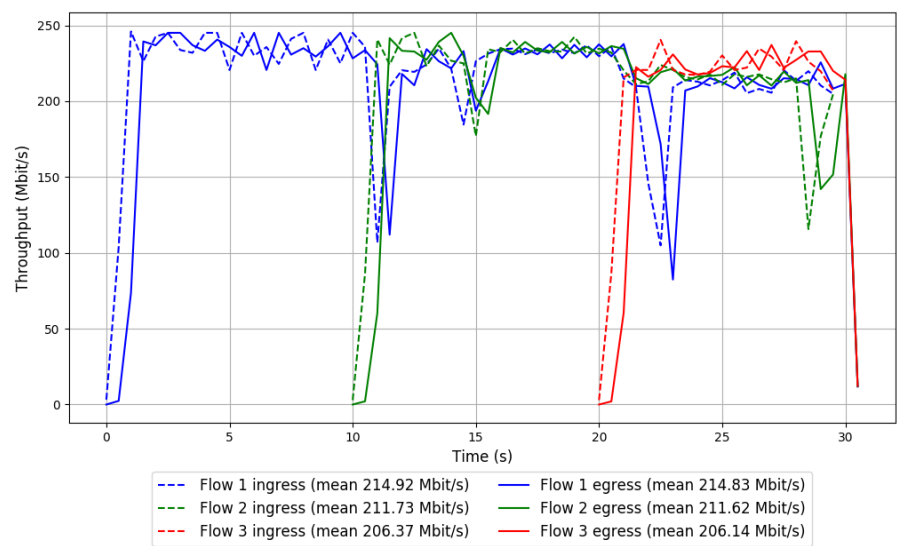


Run 7: Statistics of TCP BBR

Start at: 2018-06-01 12:36:00
End at: 2018-06-01 12:36:30
Local clock offset: 0.351 ms
Remote clock offset: -0.064 ms

Below is generated by plot.py at 2018-06-01 14:23:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 424.18 Mbit/s
95th percentile per-packet one-way delay: 69.681 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 214.83 Mbit/s
95th percentile per-packet one-way delay: 68.224 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 211.62 Mbit/s
95th percentile per-packet one-way delay: 69.633 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 206.14 Mbit/s
95th percentile per-packet one-way delay: 71.512 ms
Loss rate: 0.12%

Run 7: Report of TCP BBR — Data Link

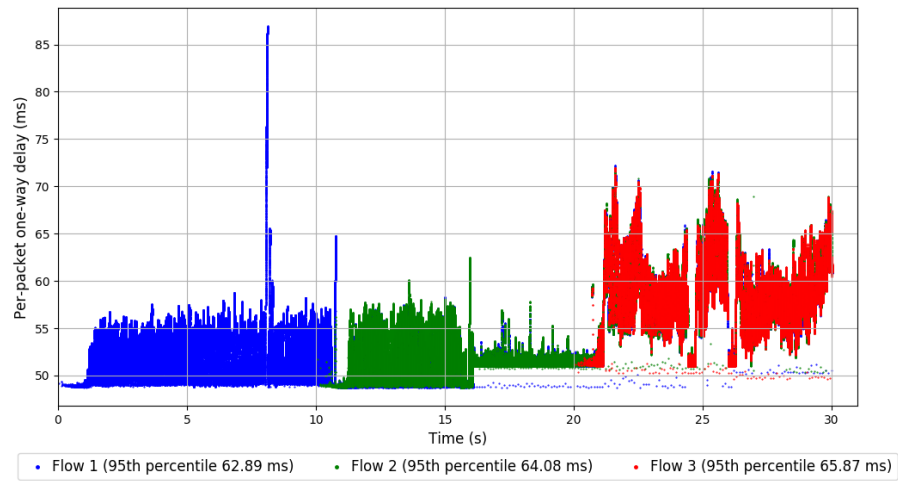
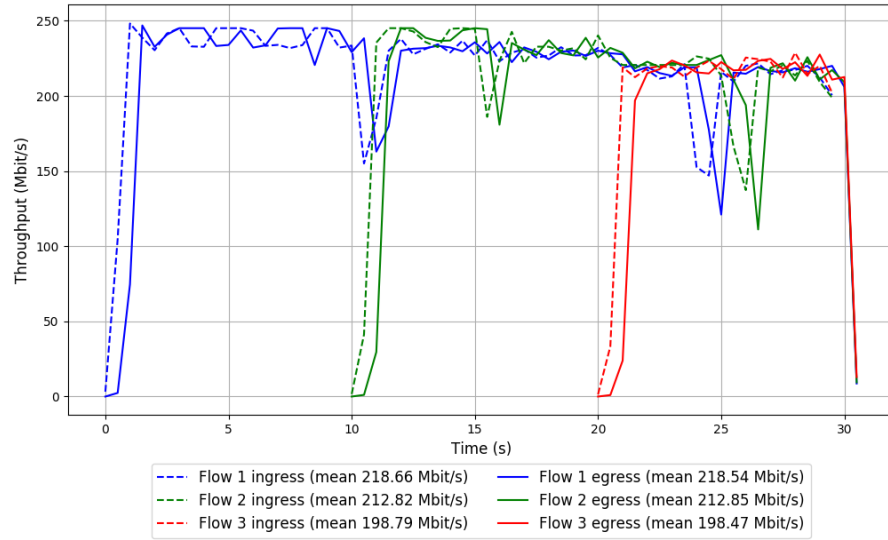


Run 8: Statistics of TCP BBR

Start at: 2018-06-01 12:59:09
End at: 2018-06-01 12:59:39
Local clock offset: 1.814 ms
Remote clock offset: -0.098 ms

Below is generated by plot.py at 2018-06-01 14:23:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 426.12 Mbit/s
95th percentile per-packet one-way delay: 64.075 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 218.54 Mbit/s
95th percentile per-packet one-way delay: 62.892 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 212.85 Mbit/s
95th percentile per-packet one-way delay: 64.076 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 198.47 Mbit/s
95th percentile per-packet one-way delay: 65.872 ms
Loss rate: 0.15%

Run 8: Report of TCP BBR — Data Link

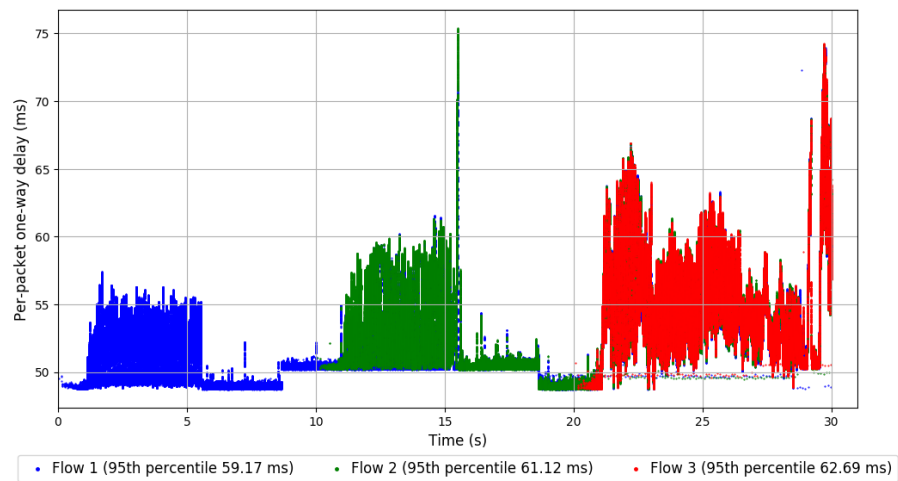
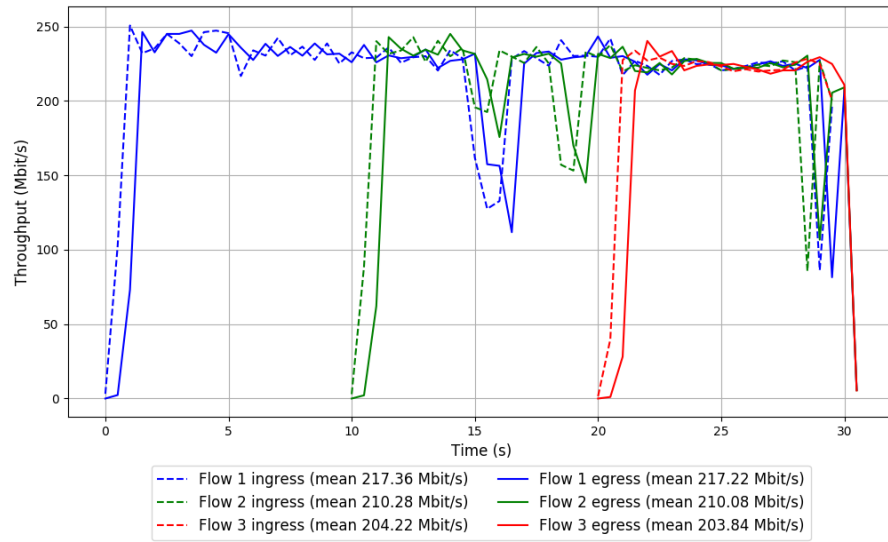


Run 9: Statistics of TCP BBR

Start at: 2018-06-01 13:21:56
End at: 2018-06-01 13:22:26
Local clock offset: 0.588 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2018-06-01 14:30:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 424.83 Mbit/s
95th percentile per-packet one-way delay: 60.803 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 217.22 Mbit/s
95th percentile per-packet one-way delay: 59.169 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 210.08 Mbit/s
95th percentile per-packet one-way delay: 61.123 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 203.84 Mbit/s
95th percentile per-packet one-way delay: 62.690 ms
Loss rate: 0.19%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-06-01 13:44:57

End at: 2018-06-01 13:45:27

Local clock offset: 0.435 ms

Remote clock offset: -0.06 ms

Below is generated by plot.py at 2018-06-01 14:30:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 414.56 Mbit/s

95th percentile per-packet one-way delay: 74.473 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 210.26 Mbit/s

95th percentile per-packet one-way delay: 72.563 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 207.57 Mbit/s

95th percentile per-packet one-way delay: 74.287 ms

Loss rate: 0.05%

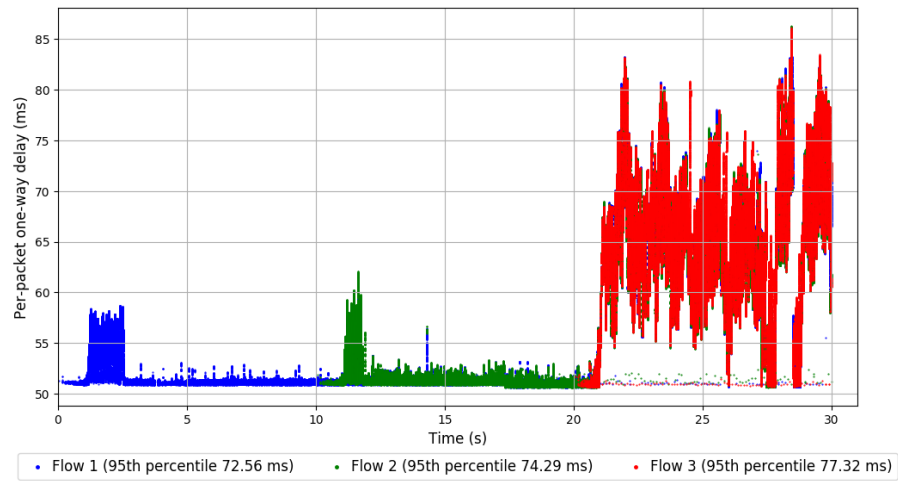
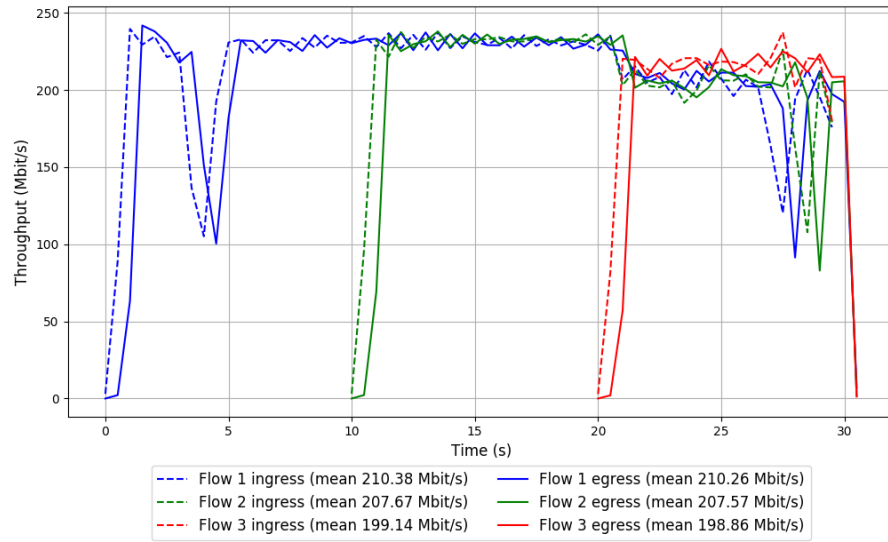
-- Flow 3:

Average throughput: 198.86 Mbit/s

95th percentile per-packet one-way delay: 77.317 ms

Loss rate: 0.15%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-06-01 10:18:00

End at: 2018-06-01 10:18:30

Local clock offset: -0.017 ms

Remote clock offset: 0.024 ms

Below is generated by plot.py at 2018-06-01 14:31:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 269.38 Mbit/s

95th percentile per-packet one-way delay: 54.894 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 150.08 Mbit/s

95th percentile per-packet one-way delay: 54.625 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 133.26 Mbit/s

95th percentile per-packet one-way delay: 53.784 ms

Loss rate: 0.00%

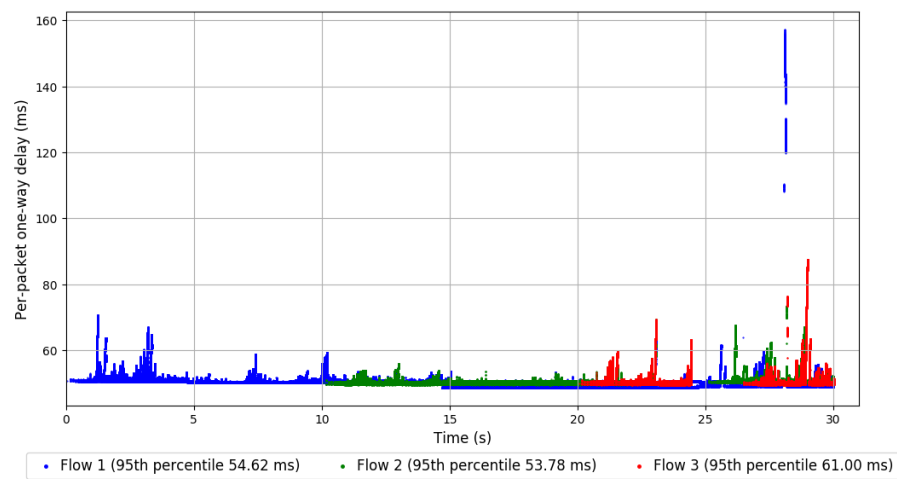
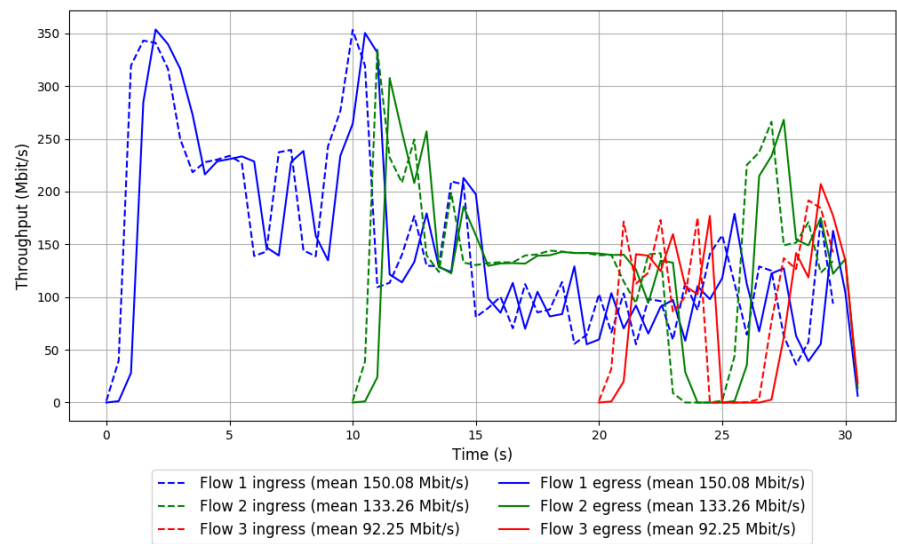
-- Flow 3:

Average throughput: 92.25 Mbit/s

95th percentile per-packet one-way delay: 61.004 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-06-01 10:41:27

End at: 2018-06-01 10:41:57

Local clock offset: -0.015 ms

Remote clock offset: 0.053 ms

Below is generated by plot.py at 2018-06-01 14:32:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 293.82 Mbit/s

95th percentile per-packet one-way delay: 58.316 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 176.64 Mbit/s

95th percentile per-packet one-way delay: 56.996 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 98.74 Mbit/s

95th percentile per-packet one-way delay: 56.376 ms

Loss rate: 0.00%

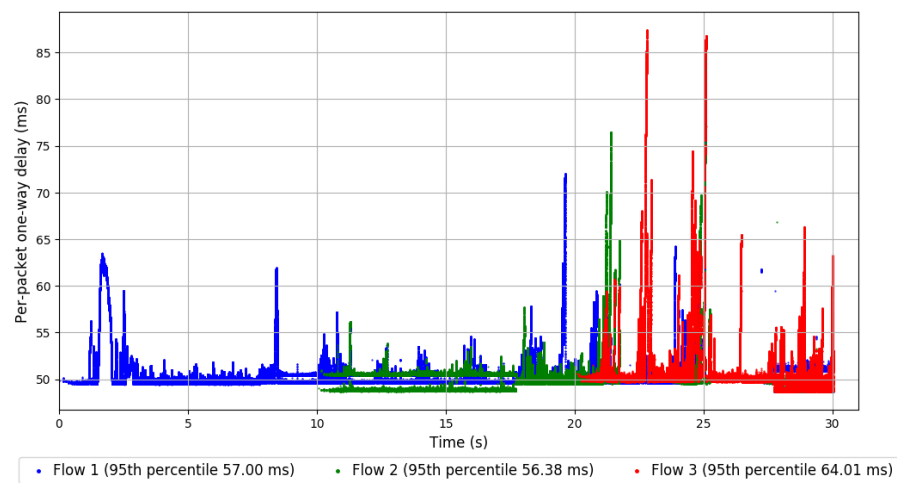
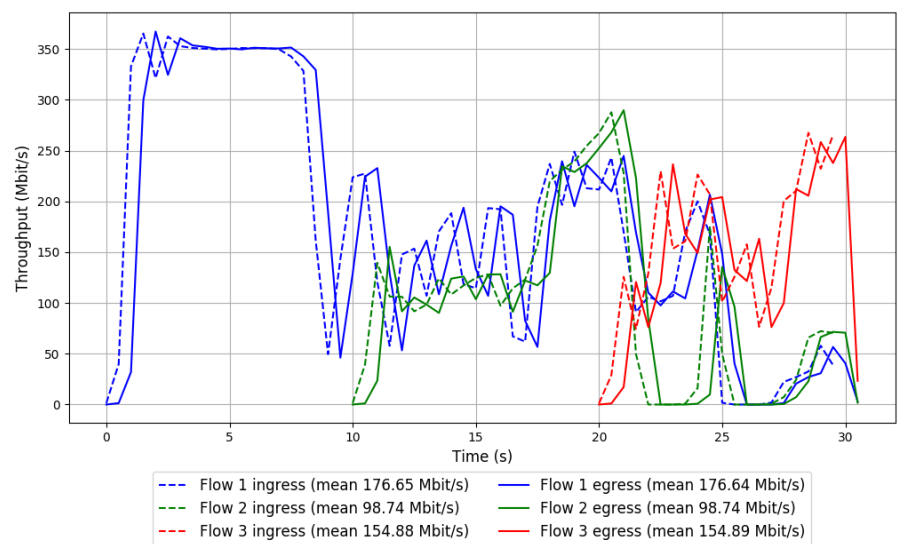
-- Flow 3:

Average throughput: 154.89 Mbit/s

95th percentile per-packet one-way delay: 64.012 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link

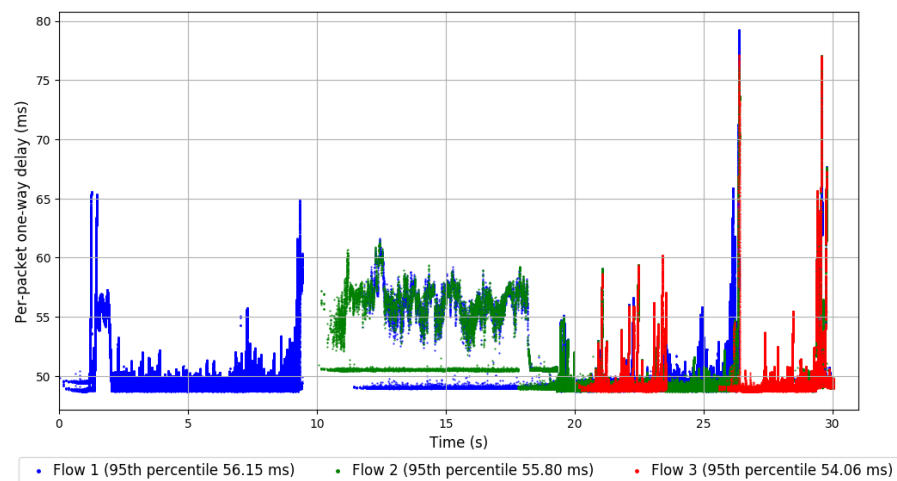
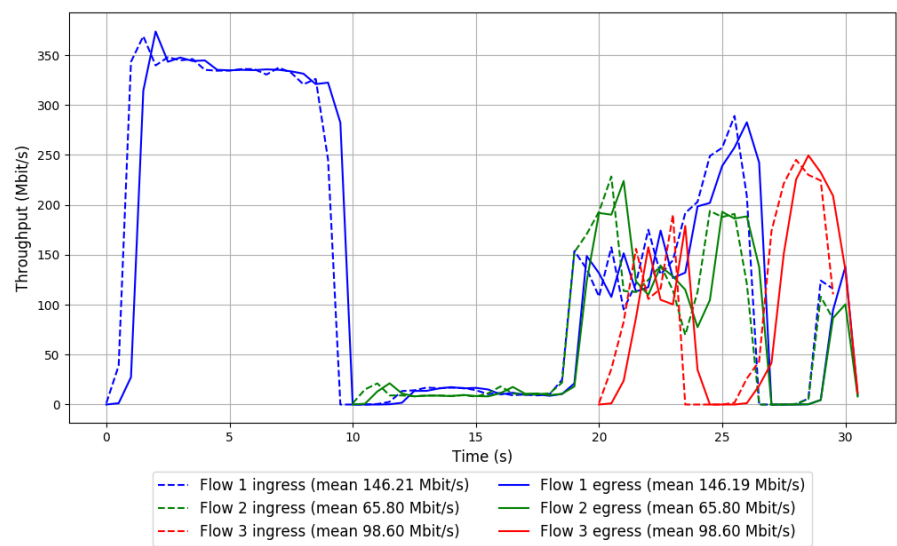


Run 3: Statistics of Copa

Start at: 2018-06-01 11:04:45
End at: 2018-06-01 11:05:15
Local clock offset: -0.004 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-06-01 14:32:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 222.78 Mbit/s
95th percentile per-packet one-way delay: 55.948 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 146.19 Mbit/s
95th percentile per-packet one-way delay: 56.149 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 65.80 Mbit/s
95th percentile per-packet one-way delay: 55.800 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 98.60 Mbit/s
95th percentile per-packet one-way delay: 54.060 ms
Loss rate: 0.00%

Run 3: Report of Copa — Data Link

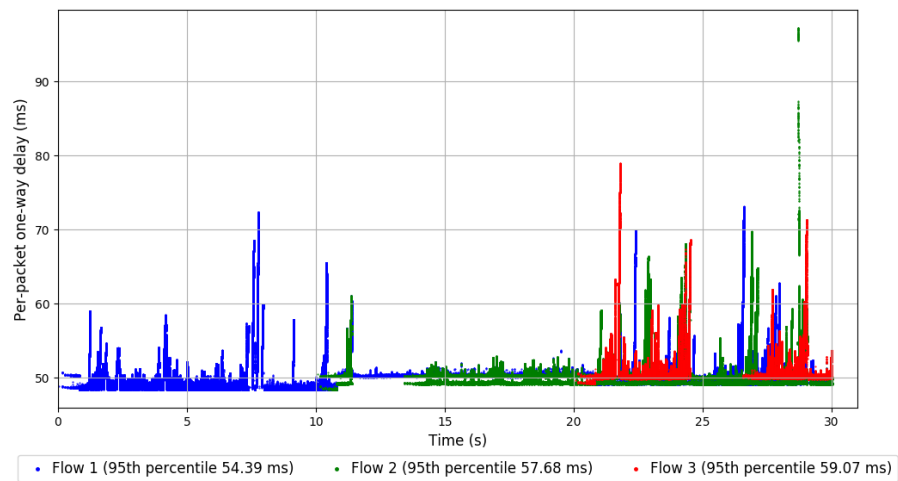
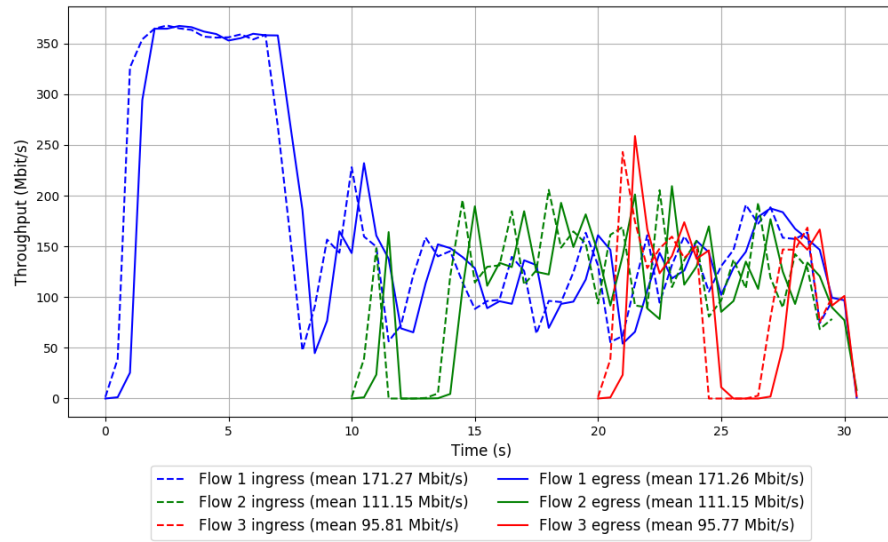


Run 4: Statistics of Copa

Start at: 2018-06-01 11:27:54
End at: 2018-06-01 11:28:24
Local clock offset: 0.359 ms
Remote clock offset: -0.076 ms

Below is generated by plot.py at 2018-06-01 14:32:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 276.90 Mbit/s
95th percentile per-packet one-way delay: 56.134 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 171.26 Mbit/s
95th percentile per-packet one-way delay: 54.388 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 111.15 Mbit/s
95th percentile per-packet one-way delay: 57.681 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 95.77 Mbit/s
95th percentile per-packet one-way delay: 59.073 ms
Loss rate: 0.00%

Run 4: Report of Copa — Data Link

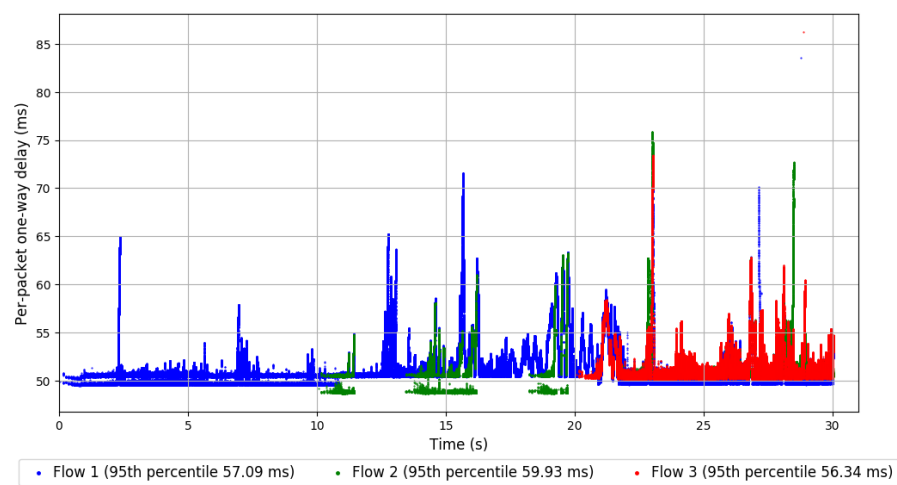
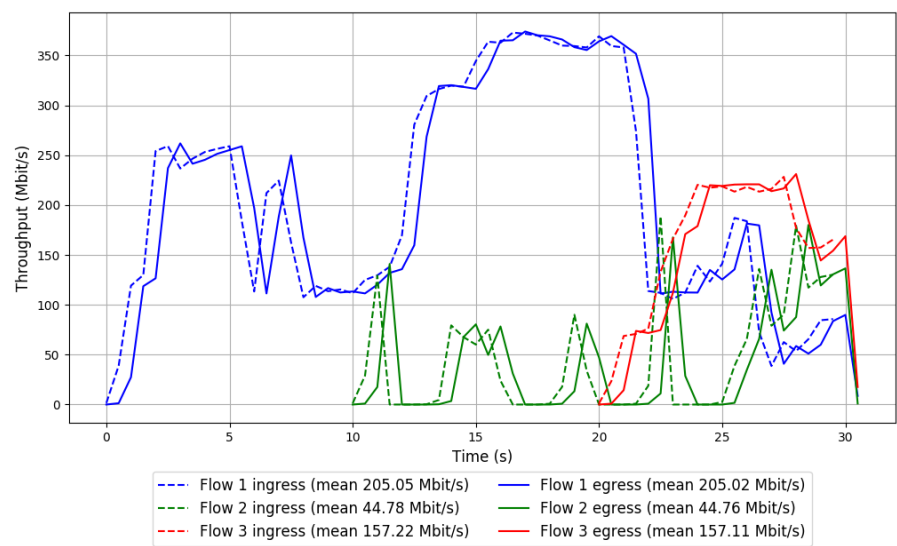


Run 5: Statistics of Copa

Start at: 2018-06-01 11:51:14
End at: 2018-06-01 11:51:44
Local clock offset: -0.033 ms
Remote clock offset: -0.108 ms

Below is generated by plot.py at 2018-06-01 14:32:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 287.03 Mbit/s
95th percentile per-packet one-way delay: 57.178 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 205.02 Mbit/s
95th percentile per-packet one-way delay: 57.085 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 44.76 Mbit/s
95th percentile per-packet one-way delay: 59.928 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 157.11 Mbit/s
95th percentile per-packet one-way delay: 56.343 ms
Loss rate: 0.06%

Run 5: Report of Copa — Data Link

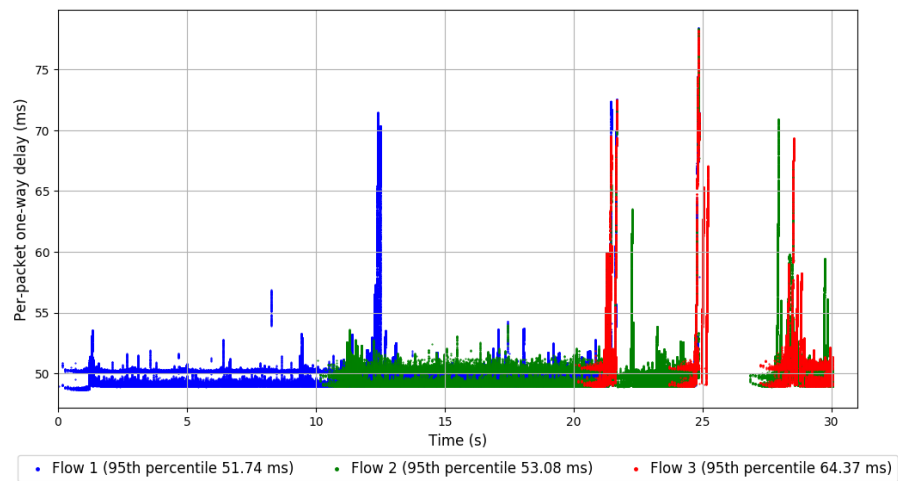
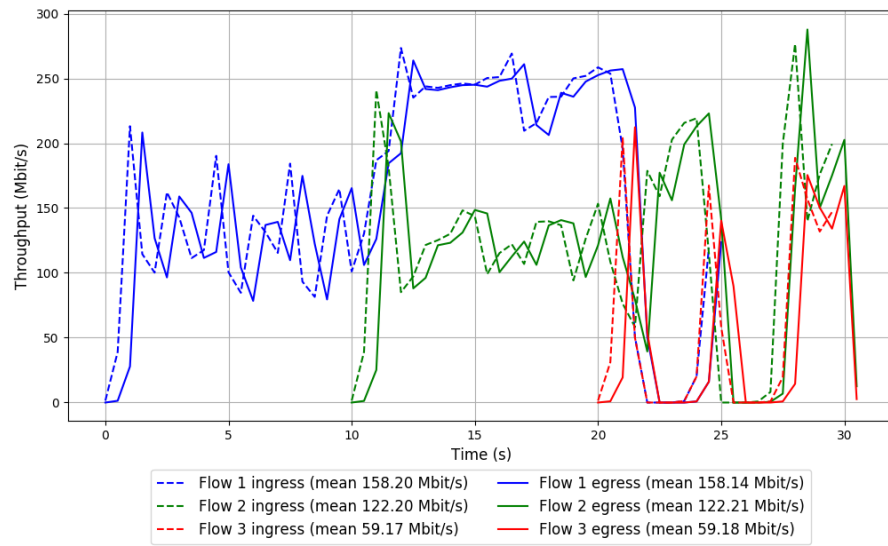


Run 6: Statistics of Copa

Start at: 2018-06-01 12:14:23
End at: 2018-06-01 12:14:53
Local clock offset: 0.025 ms
Remote clock offset: -0.024 ms

Below is generated by plot.py at 2018-06-01 14:32:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 231.91 Mbit/s
95th percentile per-packet one-way delay: 54.219 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 158.14 Mbit/s
95th percentile per-packet one-way delay: 51.741 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 122.21 Mbit/s
95th percentile per-packet one-way delay: 53.075 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 59.18 Mbit/s
95th percentile per-packet one-way delay: 64.373 ms
Loss rate: 0.00%

Run 6: Report of Copa — Data Link

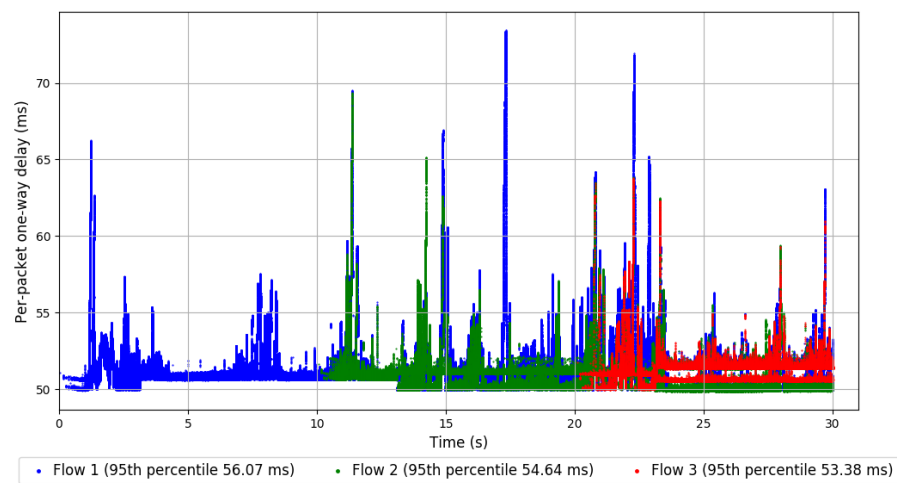
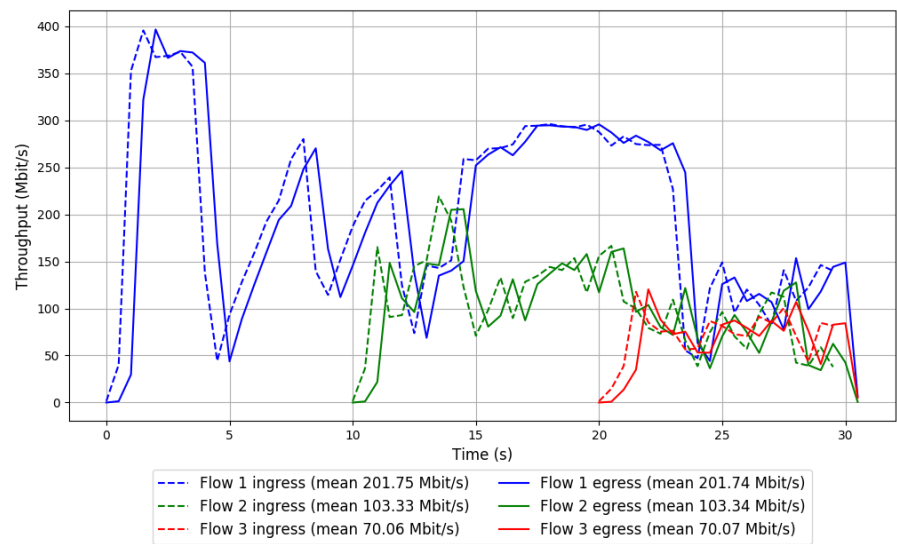


Run 7: Statistics of Copa

Start at: 2018-06-01 12:37:32
End at: 2018-06-01 12:38:02
Local clock offset: 0.041 ms
Remote clock offset: -0.115 ms

Below is generated by plot.py at 2018-06-01 14:40:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 293.72 Mbit/s
95th percentile per-packet one-way delay: 55.647 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 201.74 Mbit/s
95th percentile per-packet one-way delay: 56.071 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 103.34 Mbit/s
95th percentile per-packet one-way delay: 54.642 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 70.07 Mbit/s
95th percentile per-packet one-way delay: 53.381 ms
Loss rate: 0.00%

Run 7: Report of Copa — Data Link

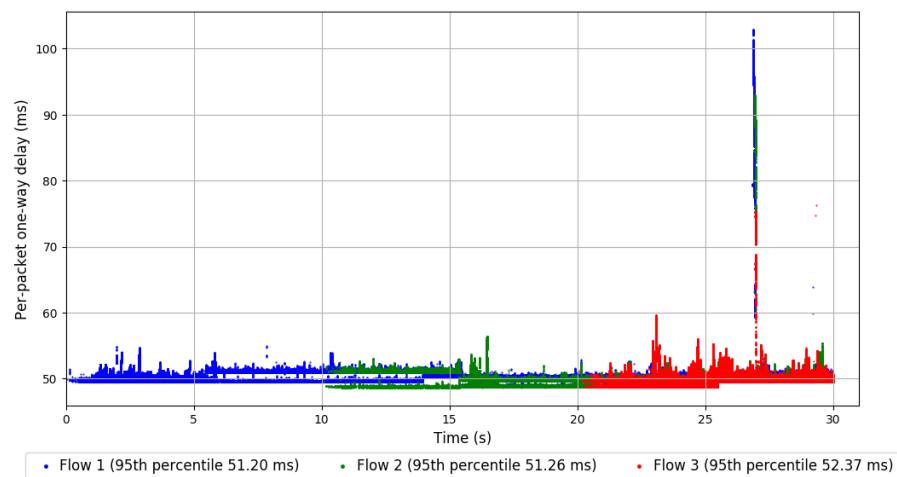
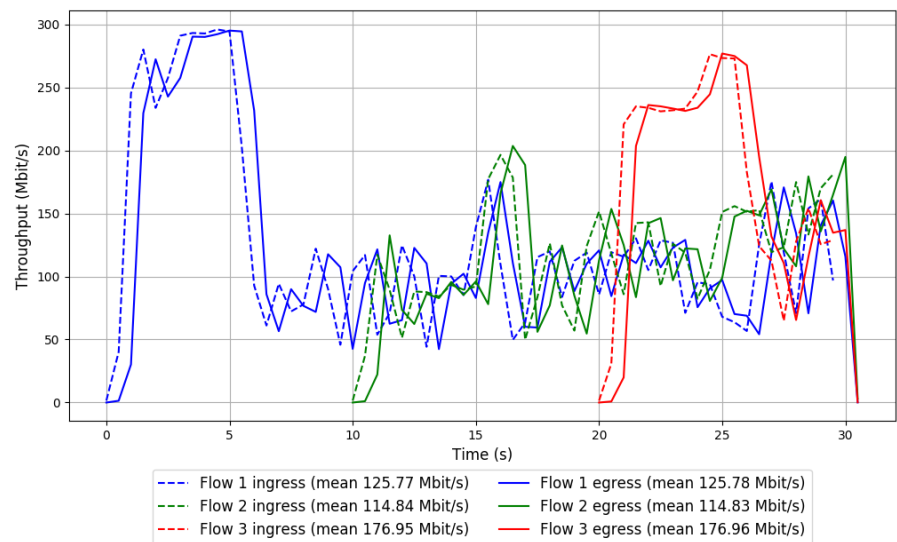


Run 8: Statistics of Copa

Start at: 2018-06-01 13:00:39
End at: 2018-06-01 13:01:09
Local clock offset: 1.91 ms
Remote clock offset: -0.097 ms

Below is generated by plot.py at 2018-06-01 14:40:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 260.75 Mbit/s
95th percentile per-packet one-way delay: 51.376 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 125.78 Mbit/s
95th percentile per-packet one-way delay: 51.203 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 114.83 Mbit/s
95th percentile per-packet one-way delay: 51.257 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 176.96 Mbit/s
95th percentile per-packet one-way delay: 52.369 ms
Loss rate: 0.00%

Run 8: Report of Copa — Data Link

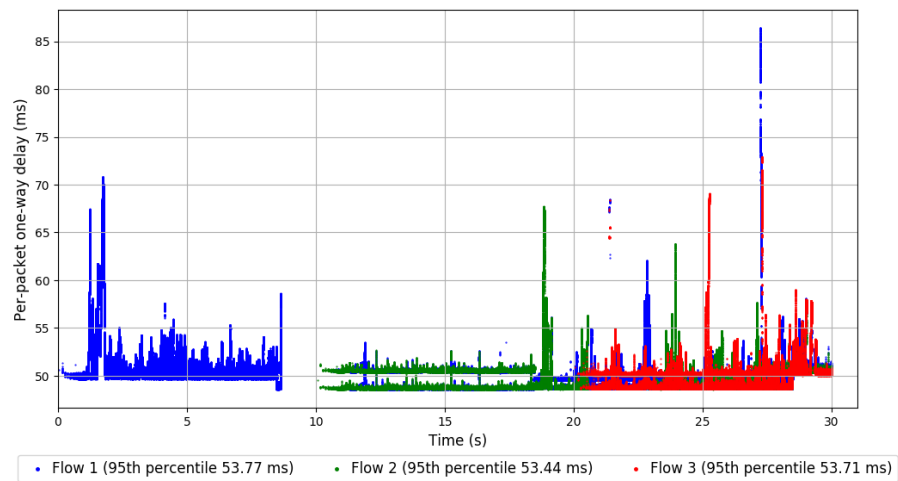
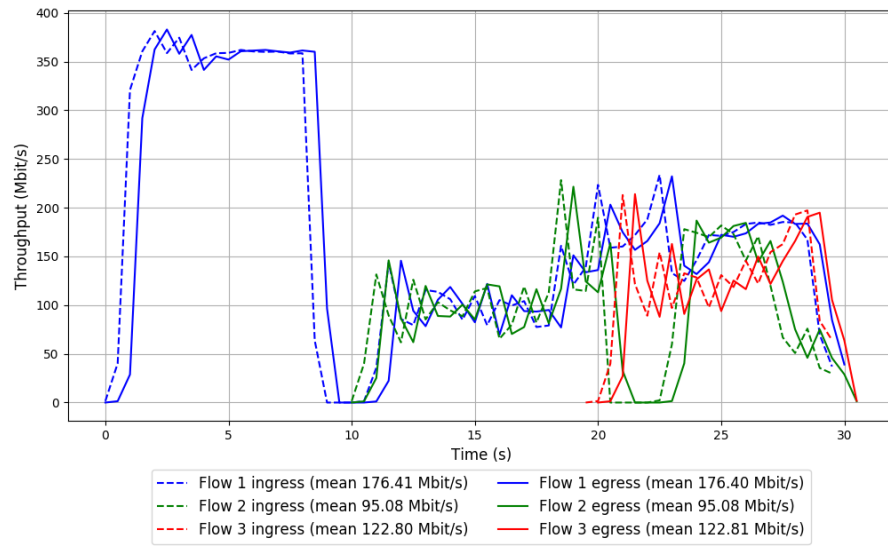


Run 9: Statistics of Copa

Start at: 2018-06-01 13:23:26
End at: 2018-06-01 13:23:56
Local clock offset: 0.616 ms
Remote clock offset: -0.146 ms

Below is generated by plot.py at 2018-06-01 14:40:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 280.48 Mbit/s
95th percentile per-packet one-way delay: 53.707 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 176.40 Mbit/s
95th percentile per-packet one-way delay: 53.770 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 95.08 Mbit/s
95th percentile per-packet one-way delay: 53.437 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 122.81 Mbit/s
95th percentile per-packet one-way delay: 53.712 ms
Loss rate: 0.01%

Run 9: Report of Copa — Data Link

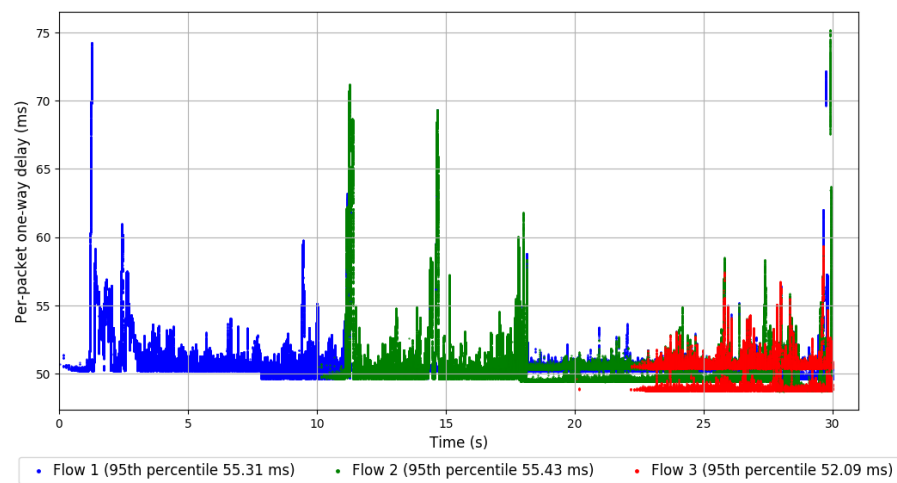
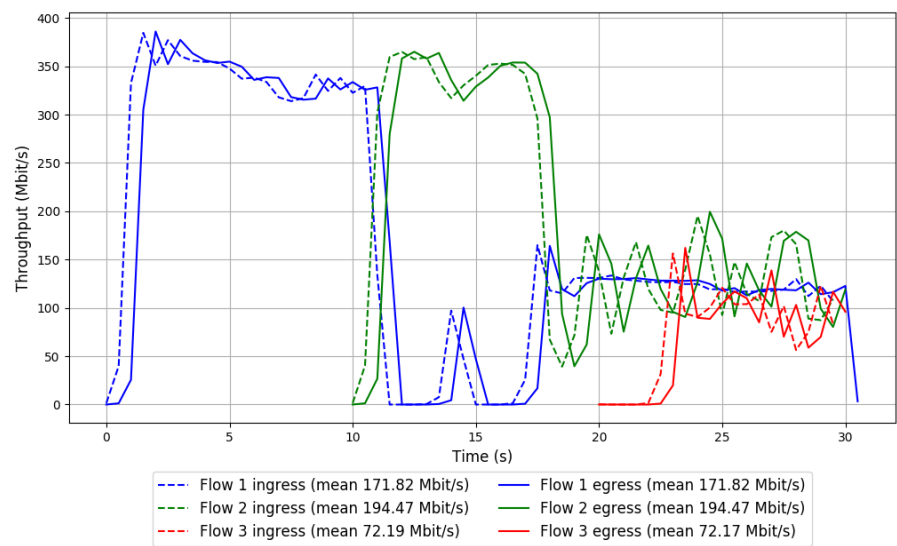


Run 10: Statistics of Copa

Start at: 2018-06-01 13:46:27
End at: 2018-06-01 13:46:57
Local clock offset: 0.895 ms
Remote clock offset: -0.047 ms

Below is generated by plot.py at 2018-06-01 14:42:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 324.75 Mbit/s
95th percentile per-packet one-way delay: 55.146 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 171.82 Mbit/s
95th percentile per-packet one-way delay: 55.313 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 194.47 Mbit/s
95th percentile per-packet one-way delay: 55.426 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 72.17 Mbit/s
95th percentile per-packet one-way delay: 52.092 ms
Loss rate: 0.02%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-06-01 10:12:22

End at: 2018-06-01 10:12:52

Local clock offset: 0.011 ms

Remote clock offset: 0.035 ms

Below is generated by plot.py at 2018-06-01 14:42:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 359.00 Mbit/s

95th percentile per-packet one-way delay: 60.382 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 175.16 Mbit/s

95th percentile per-packet one-way delay: 60.136 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 213.06 Mbit/s

95th percentile per-packet one-way delay: 61.137 ms

Loss rate: 0.00%

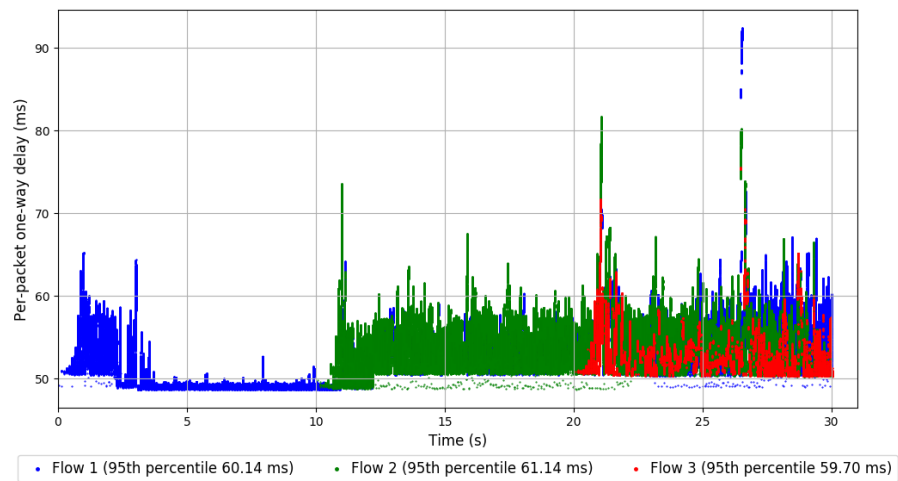
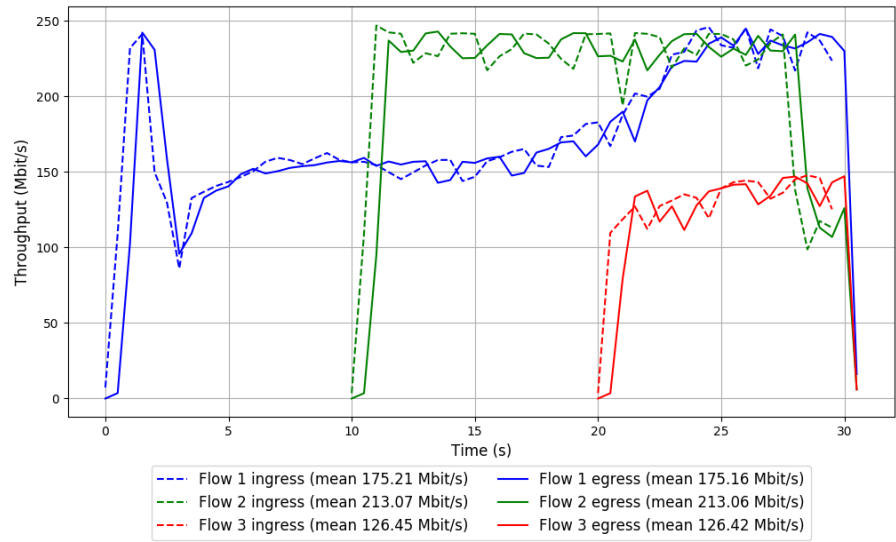
-- Flow 3:

Average throughput: 126.42 Mbit/s

95th percentile per-packet one-way delay: 59.702 ms

Loss rate: 0.02%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-06-01 10:35:48

End at: 2018-06-01 10:36:18

Local clock offset: 0.01 ms

Remote clock offset: 0.024 ms

Below is generated by plot.py at 2018-06-01 14:42:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 444.66 Mbit/s

95th percentile per-packet one-way delay: 65.651 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 226.92 Mbit/s

95th percentile per-packet one-way delay: 64.057 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 222.53 Mbit/s

95th percentile per-packet one-way delay: 66.619 ms

Loss rate: 0.00%

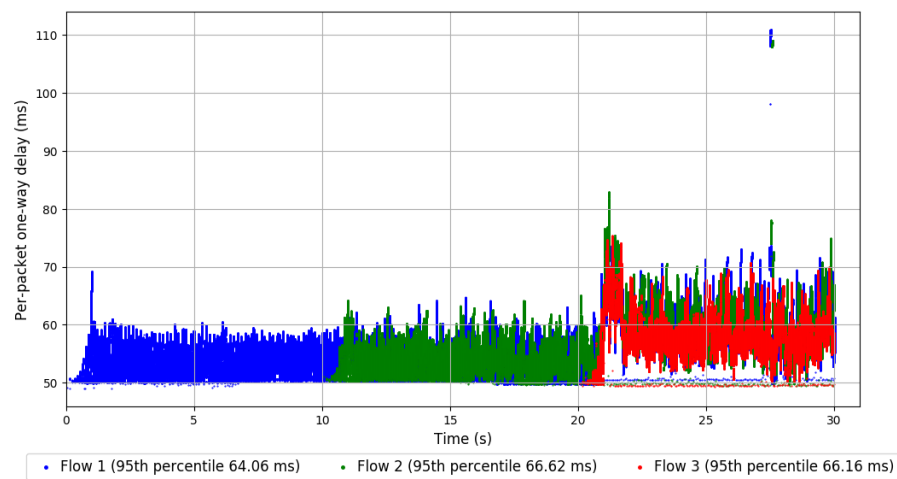
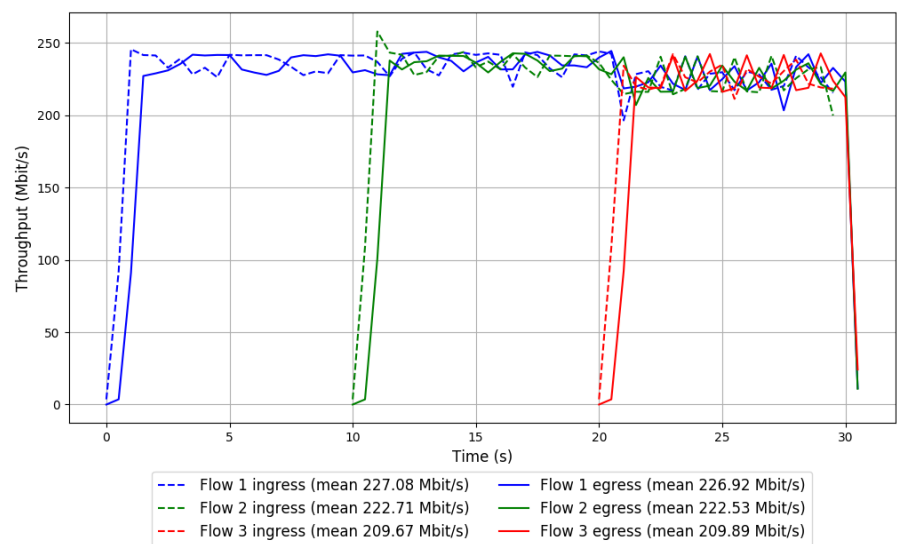
-- Flow 3:

Average throughput: 209.89 Mbit/s

95th percentile per-packet one-way delay: 66.161 ms

Loss rate: 0.03%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-06-01 10:59:11

End at: 2018-06-01 10:59:41

Local clock offset: -0.008 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at 2018-06-01 14:42:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 381.57 Mbit/s

95th percentile per-packet one-way delay: 59.404 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 212.50 Mbit/s

95th percentile per-packet one-way delay: 59.266 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 144.15 Mbit/s

95th percentile per-packet one-way delay: 57.202 ms

Loss rate: 0.00%

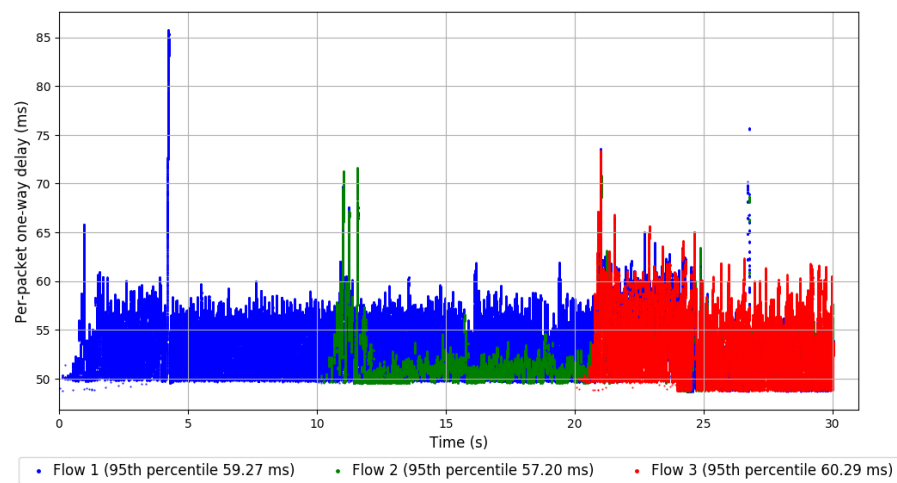
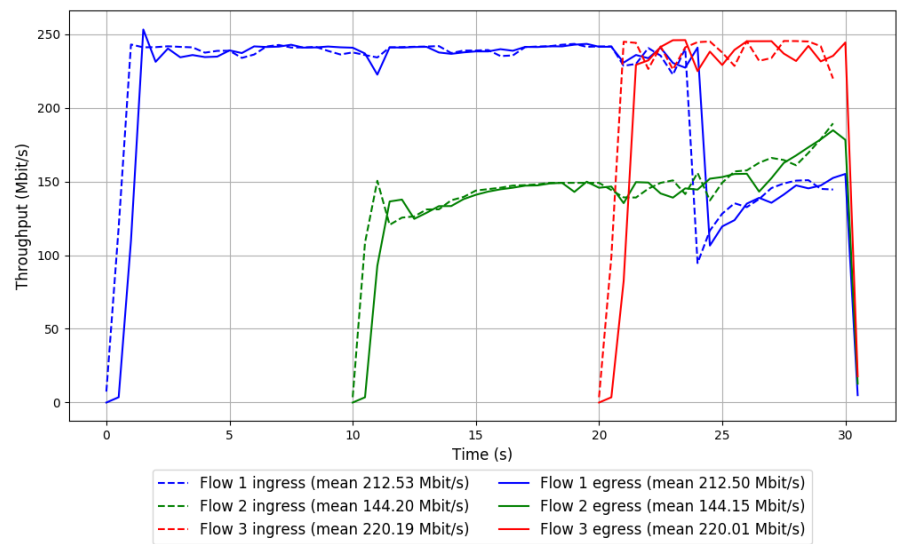
-- Flow 3:

Average throughput: 220.01 Mbit/s

95th percentile per-packet one-way delay: 60.286 ms

Loss rate: 0.07%

Run 3: Report of TCP Cubic — Data Link

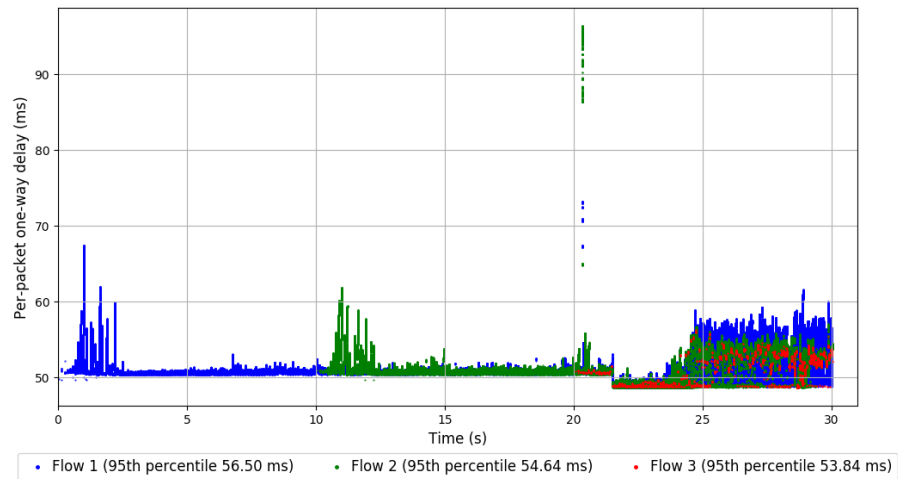
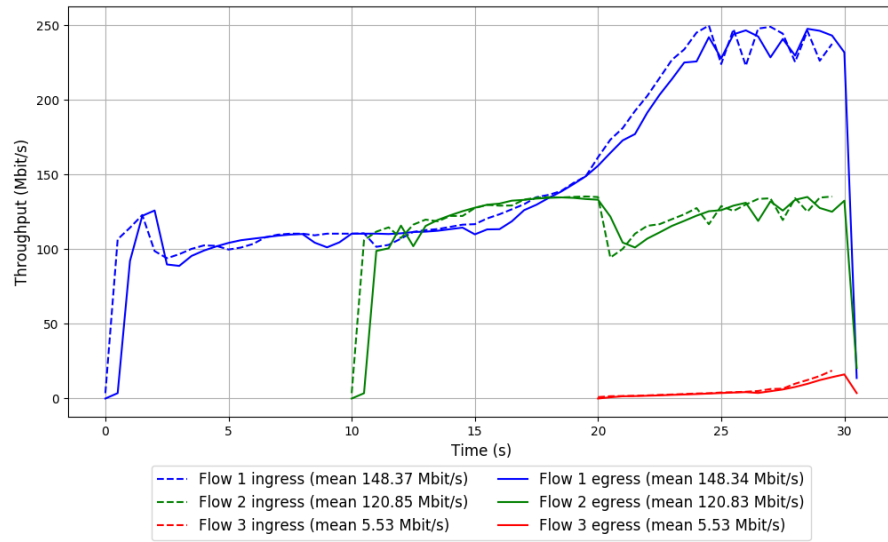


Run 4: Statistics of TCP Cubic

Start at: 2018-06-01 11:22:23
End at: 2018-06-01 11:22:53
Local clock offset: 0.017 ms
Remote clock offset: -0.054 ms

Below is generated by plot.py at 2018-06-01 14:42:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 230.59 Mbit/s
95th percentile per-packet one-way delay: 56.115 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 148.34 Mbit/s
95th percentile per-packet one-way delay: 56.504 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 120.83 Mbit/s
95th percentile per-packet one-way delay: 54.642 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.53 Mbit/s
95th percentile per-packet one-way delay: 53.837 ms
Loss rate: 0.11%

Run 4: Report of TCP Cubic — Data Link

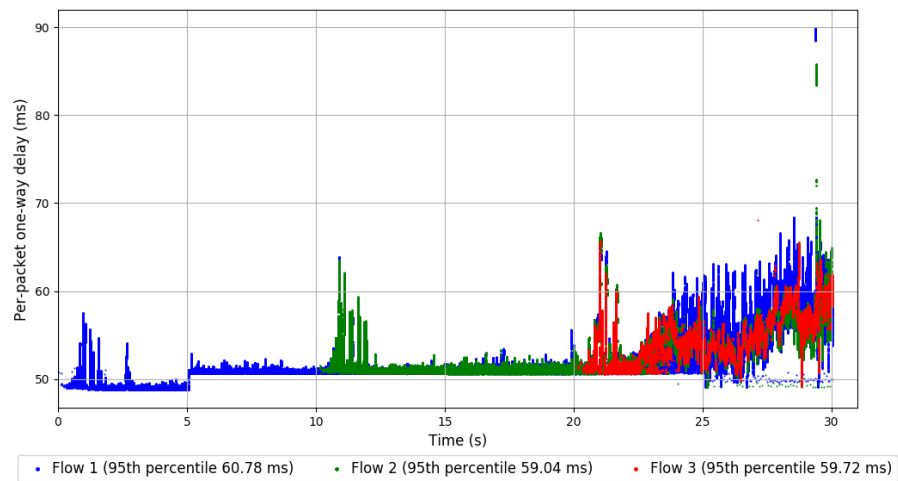
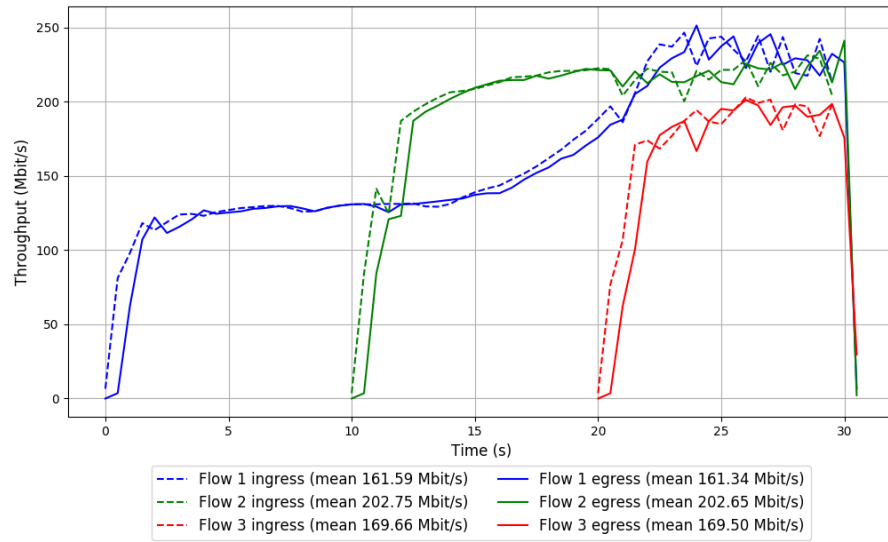


Run 5: Statistics of TCP Cubic

Start at: 2018-06-01 11:45:40
End at: 2018-06-01 11:46:10
Local clock offset: -0.044 ms
Remote clock offset: -0.053 ms

Below is generated by plot.py at 2018-06-01 14:43:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 352.47 Mbit/s
95th percentile per-packet one-way delay: 59.881 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 161.34 Mbit/s
95th percentile per-packet one-way delay: 60.779 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 202.65 Mbit/s
95th percentile per-packet one-way delay: 59.041 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 169.50 Mbit/s
95th percentile per-packet one-way delay: 59.722 ms
Loss rate: 0.04%

Run 5: Report of TCP Cubic — Data Link

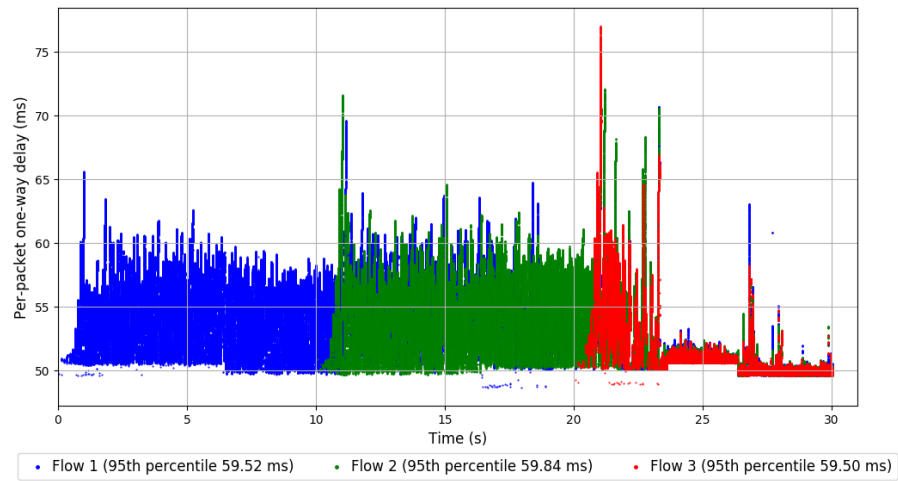
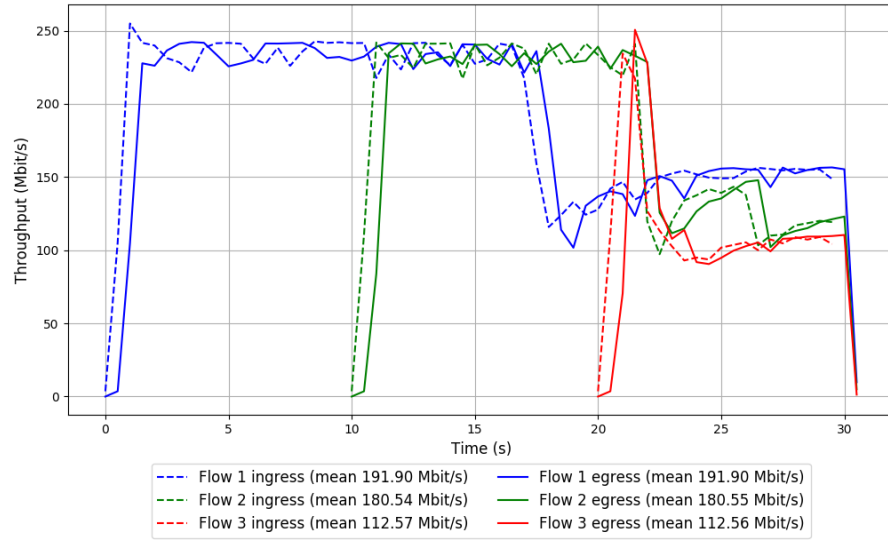


Run 6: Statistics of TCP Cubic

Start at: 2018-06-01 12:08:48
End at: 2018-06-01 12:09:18
Local clock offset: 0.014 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2018-06-01 14:44:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 349.56 Mbit/s
95th percentile per-packet one-way delay: 59.630 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 191.90 Mbit/s
95th percentile per-packet one-way delay: 59.516 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 180.55 Mbit/s
95th percentile per-packet one-way delay: 59.843 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 112.56 Mbit/s
95th percentile per-packet one-way delay: 59.504 ms
Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link

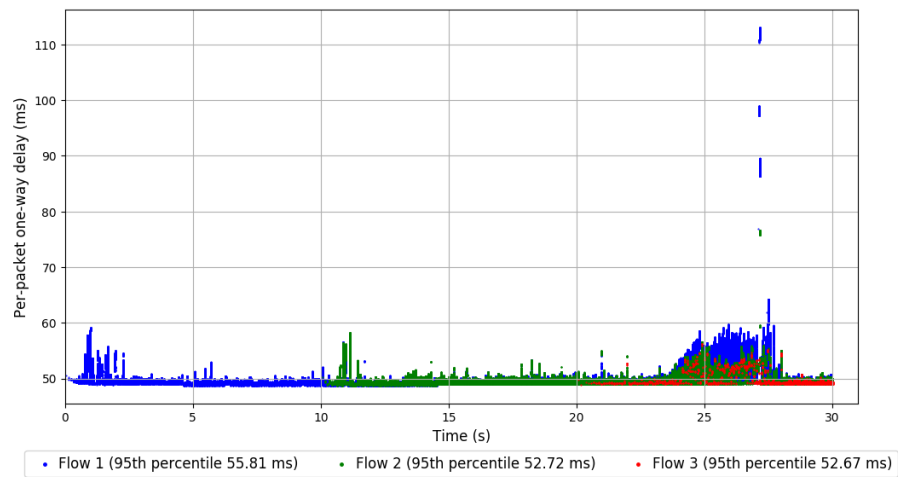
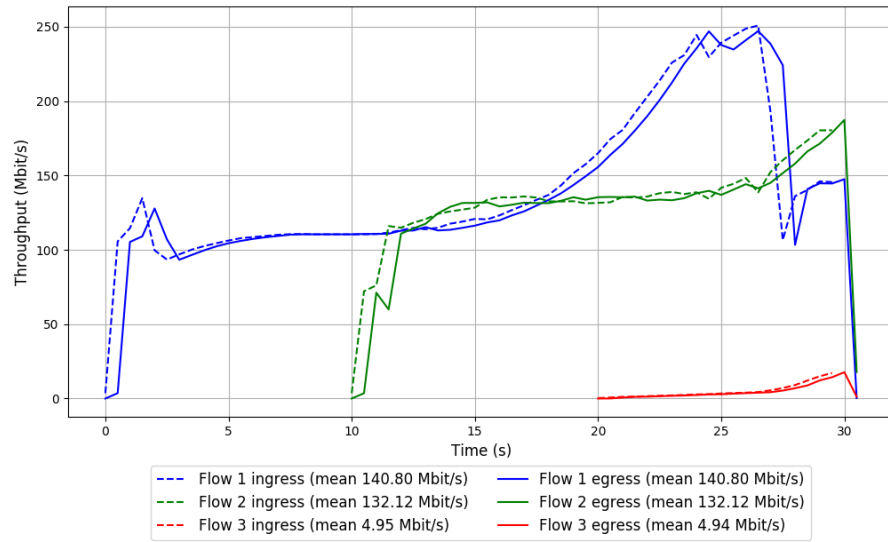


Run 7: Statistics of TCP Cubic

Start at: 2018-06-01 12:32:00
End at: 2018-06-01 12:32:30
Local clock offset: 0.139 ms
Remote clock offset: -0.062 ms

Below is generated by plot.py at 2018-06-01 14:44:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 230.40 Mbit/s
95th percentile per-packet one-way delay: 54.847 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 140.80 Mbit/s
95th percentile per-packet one-way delay: 55.811 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 132.12 Mbit/s
95th percentile per-packet one-way delay: 52.717 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.94 Mbit/s
95th percentile per-packet one-way delay: 52.667 ms
Loss rate: 0.24%

Run 7: Report of TCP Cubic — Data Link

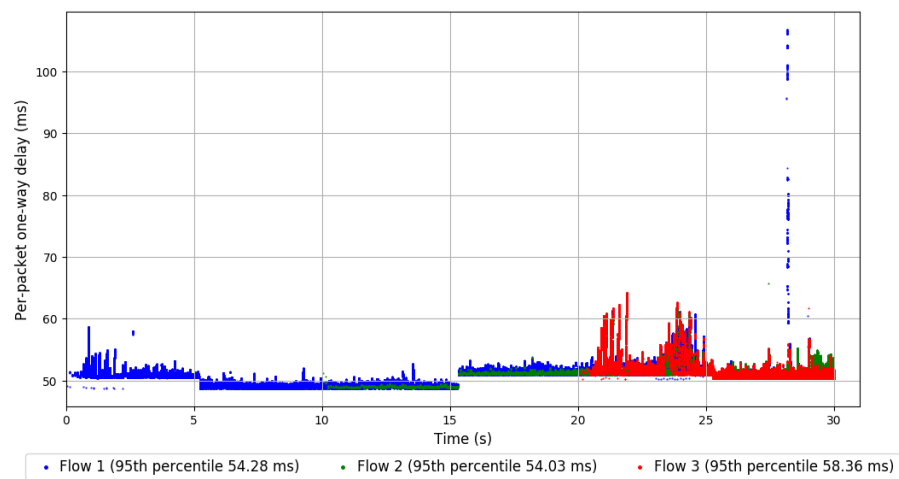
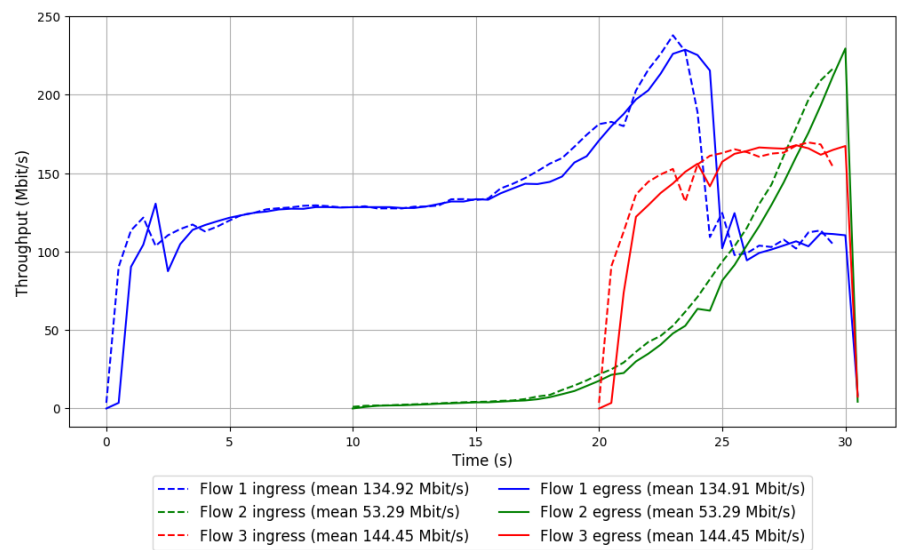


Run 8: Statistics of TCP Cubic

Start at: 2018-06-01 12:55:09
End at: 2018-06-01 12:55:39
Local clock offset: 1.57 ms
Remote clock offset: -0.091 ms

Below is generated by plot.py at 2018-06-01 14:44:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 218.34 Mbit/s
95th percentile per-packet one-way delay: 55.236 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 134.91 Mbit/s
95th percentile per-packet one-way delay: 54.282 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 53.29 Mbit/s
95th percentile per-packet one-way delay: 54.034 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 144.45 Mbit/s
95th percentile per-packet one-way delay: 58.361 ms
Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link

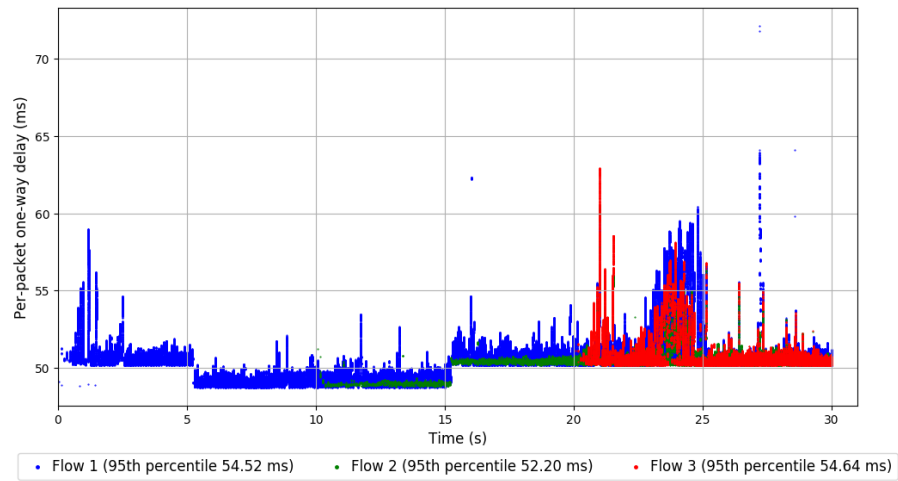
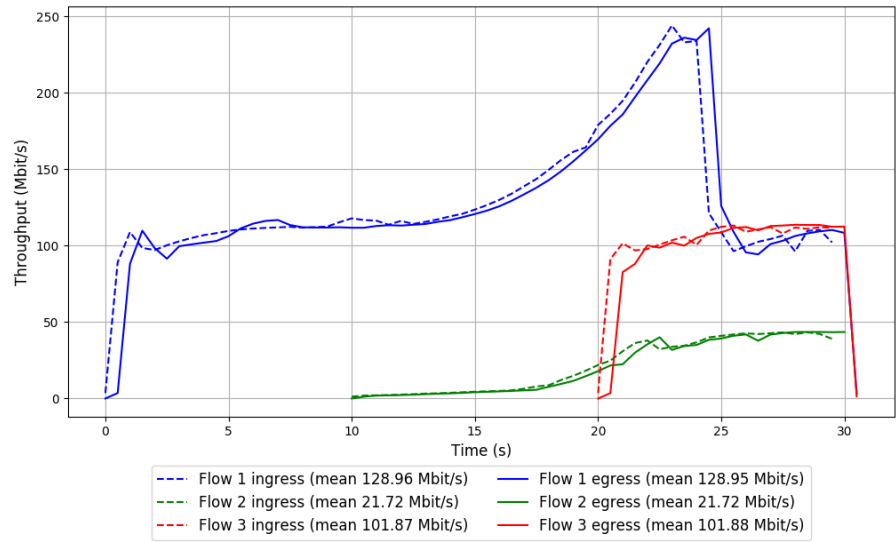


Run 9: Statistics of TCP Cubic

Start at: 2018-06-01 13:17:59
End at: 2018-06-01 13:18:29
Local clock offset: 0.7 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2018-06-01 14:44:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 177.17 Mbit/s
95th percentile per-packet one-way delay: 54.436 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 128.95 Mbit/s
95th percentile per-packet one-way delay: 54.525 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 21.72 Mbit/s
95th percentile per-packet one-way delay: 52.204 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 101.88 Mbit/s
95th percentile per-packet one-way delay: 54.636 ms
Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link

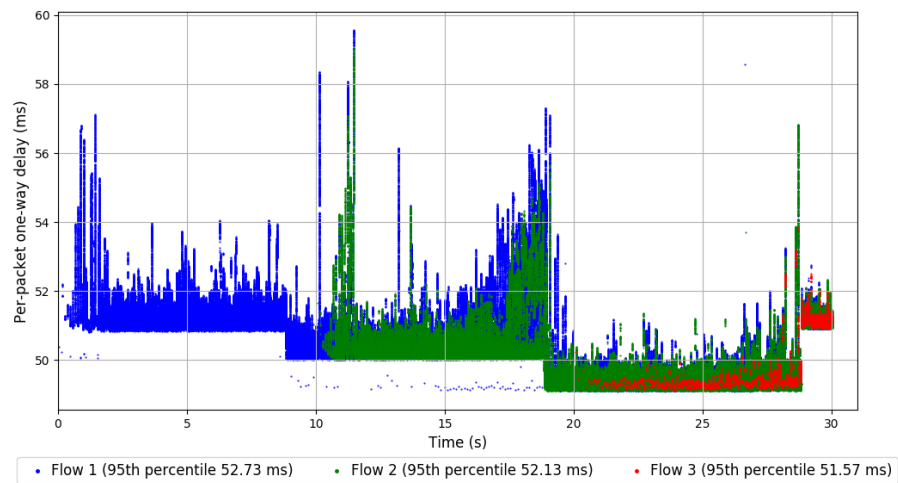
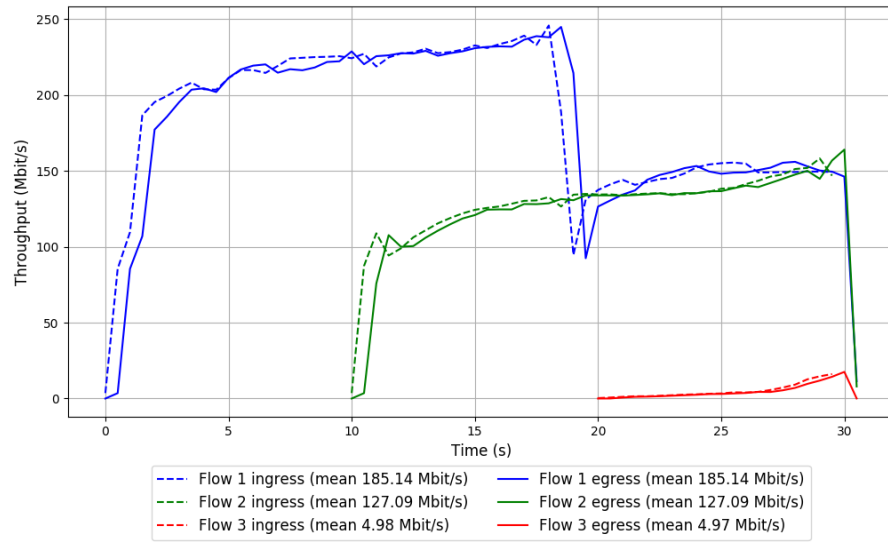


Run 10: Statistics of TCP Cubic

Start at: 2018-06-01 13:40:56
End at: 2018-06-01 13:41:26
Local clock offset: 0.418 ms
Remote clock offset: -0.061 ms

Below is generated by plot.py at 2018-06-01 14:45:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 271.40 Mbit/s
95th percentile per-packet one-way delay: 52.553 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 185.14 Mbit/s
95th percentile per-packet one-way delay: 52.727 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 127.09 Mbit/s
95th percentile per-packet one-way delay: 52.132 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 4.97 Mbit/s
95th percentile per-packet one-way delay: 51.572 ms
Loss rate: 0.24%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-06-01 10:04:25

End at: 2018-06-01 10:04:55

Local clock offset: -0.005 ms

Remote clock offset: 0.013 ms

Below is generated by plot.py at 2018-06-01 15:09:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 1333.26 Mbit/s

95th percentile per-packet one-way delay: 146.732 ms

Loss rate: 3.60%

-- Flow 1:

Average throughput: 681.83 Mbit/s

95th percentile per-packet one-way delay: 145.777 ms

Loss rate: 5.32%

-- Flow 2:

Average throughput: 613.56 Mbit/s

95th percentile per-packet one-way delay: 163.260 ms

Loss rate: 2.34%

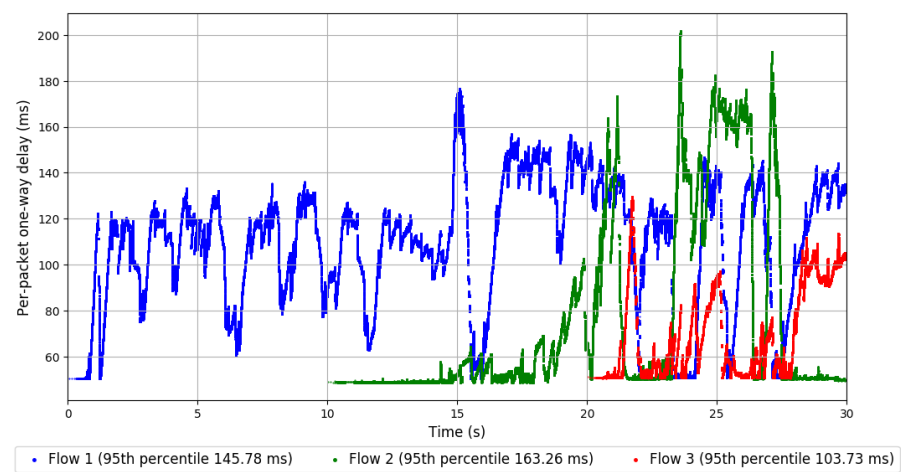
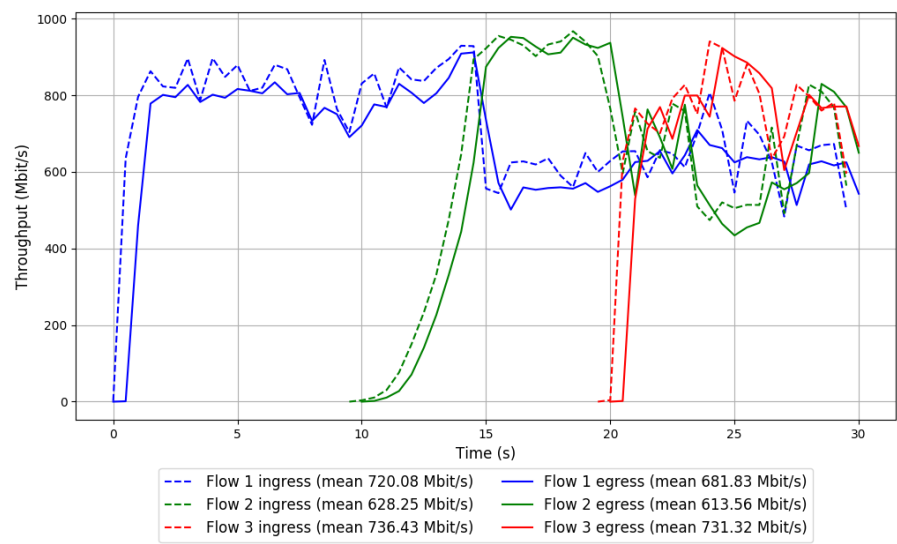
-- Flow 3:

Average throughput: 731.32 Mbit/s

95th percentile per-packet one-way delay: 103.729 ms

Loss rate: 0.72%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-06-01 10:27:42

End at: 2018-06-01 10:28:12

Local clock offset: -0.016 ms

Remote clock offset: 0.047 ms

Below is generated by plot.py at 2018-06-01 15:12:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 1321.75 Mbit/s

95th percentile per-packet one-way delay: 161.835 ms

Loss rate: 7.16%

-- Flow 1:

Average throughput: 693.84 Mbit/s

95th percentile per-packet one-way delay: 144.234 ms

Loss rate: 6.76%

-- Flow 2:

Average throughput: 635.28 Mbit/s

95th percentile per-packet one-way delay: 174.909 ms

Loss rate: 8.41%

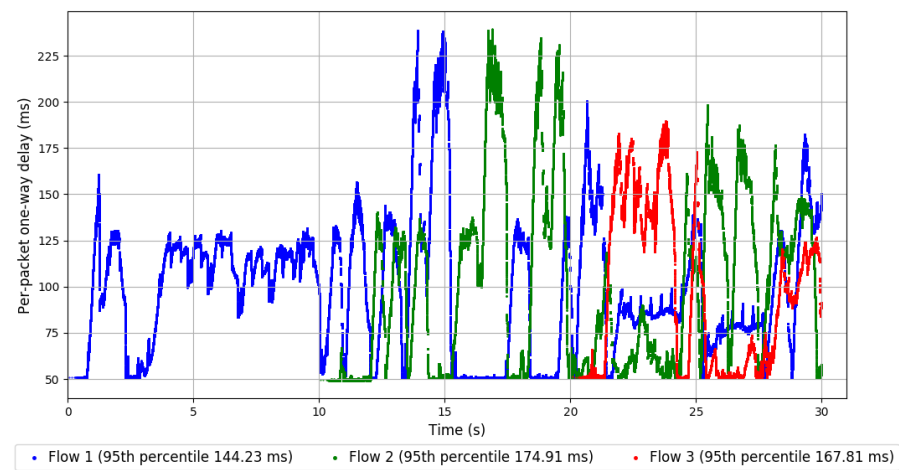
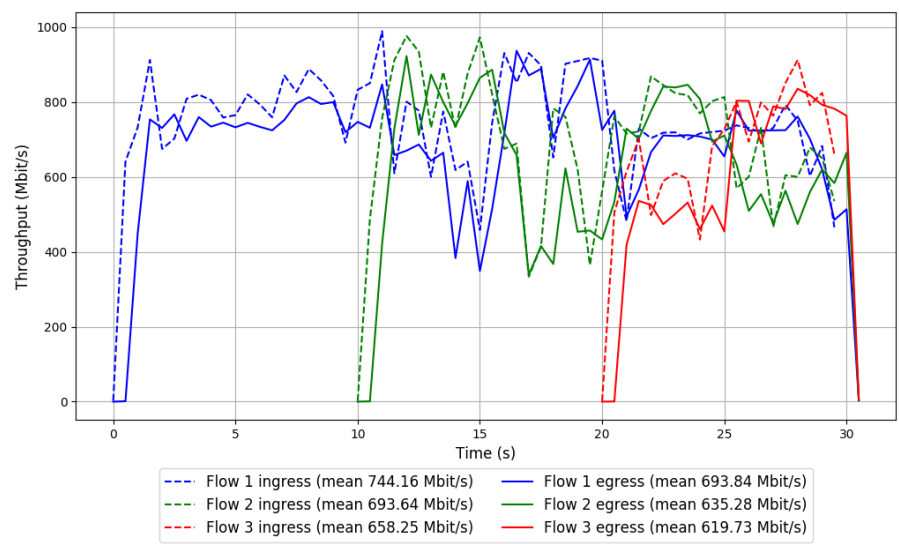
-- Flow 3:

Average throughput: 619.73 Mbit/s

95th percentile per-packet one-way delay: 167.813 ms

Loss rate: 5.86%

Run 2: Report of FillP — Data Link

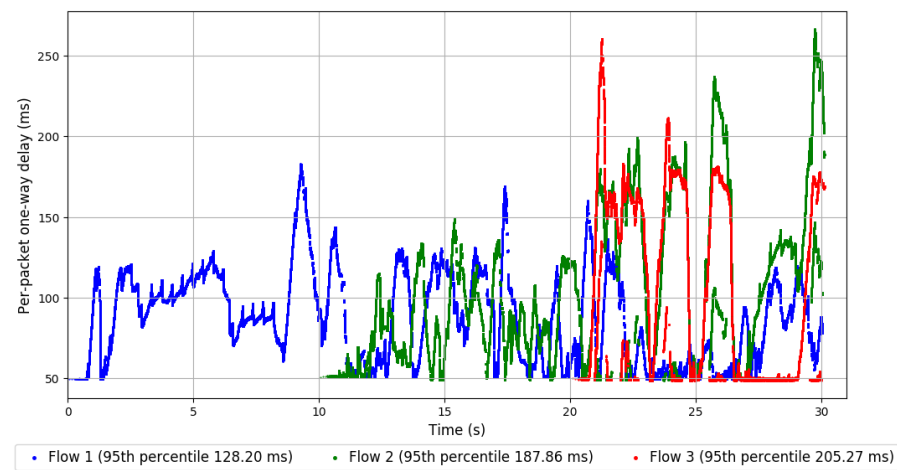
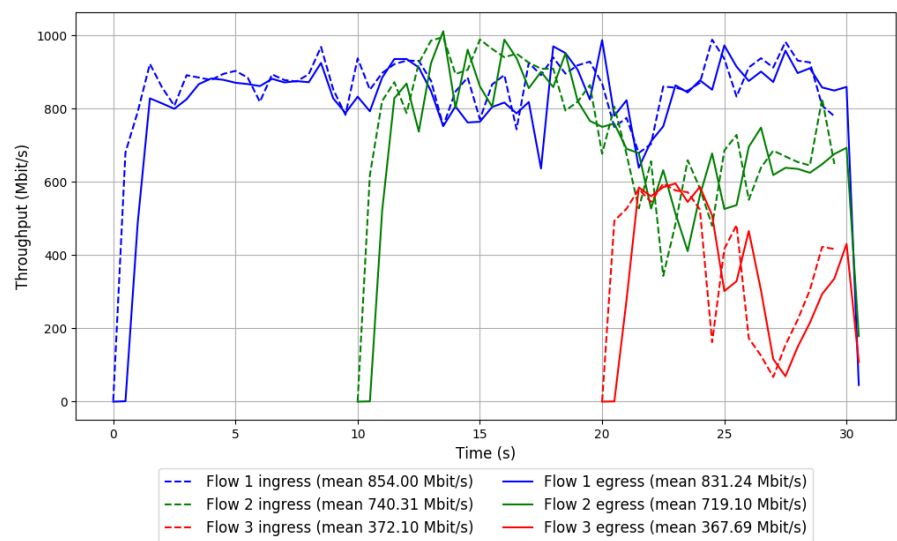


Run 3: Statistics of FillP

Start at: 2018-06-01 10:51:12
End at: 2018-06-01 10:51:42
Local clock offset: -0.042 ms
Remote clock offset: 0.046 ms

Below is generated by plot.py at 2018-06-01 15:15:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 1430.92 Mbit/s
95th percentile per-packet one-way delay: 171.918 ms
Loss rate: 2.26%
-- Flow 1:
Average throughput: 831.24 Mbit/s
95th percentile per-packet one-way delay: 128.202 ms
Loss rate: 2.57%
-- Flow 2:
Average throughput: 719.10 Mbit/s
95th percentile per-packet one-way delay: 187.861 ms
Loss rate: 2.29%
-- Flow 3:
Average throughput: 367.69 Mbit/s
95th percentile per-packet one-way delay: 205.270 ms
Loss rate: 0.01%

Run 3: Report of FillP — Data Link

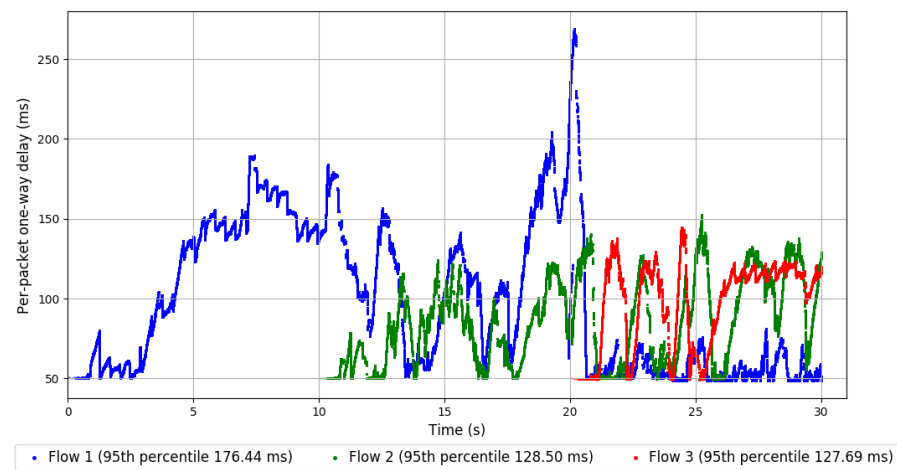
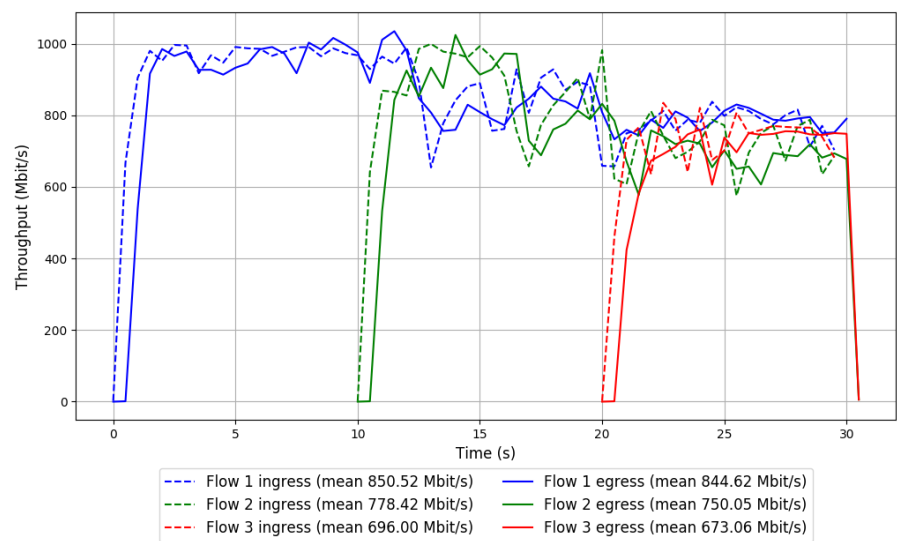


Run 4: Statistics of FillP

Start at: 2018-06-01 11:14:21
End at: 2018-06-01 11:14:51
Local clock offset: 0.376 ms
Remote clock offset: -0.034 ms

Below is generated by plot.py at 2018-06-01 15:19:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 1567.15 Mbit/s
95th percentile per-packet one-way delay: 166.638 ms
Loss rate: 2.15%
-- Flow 1:
Average throughput: 844.62 Mbit/s
95th percentile per-packet one-way delay: 176.441 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 750.05 Mbit/s
95th percentile per-packet one-way delay: 128.498 ms
Loss rate: 3.74%
-- Flow 3:
Average throughput: 673.06 Mbit/s
95th percentile per-packet one-way delay: 127.685 ms
Loss rate: 3.50%

Run 4: Report of FillP — Data Link

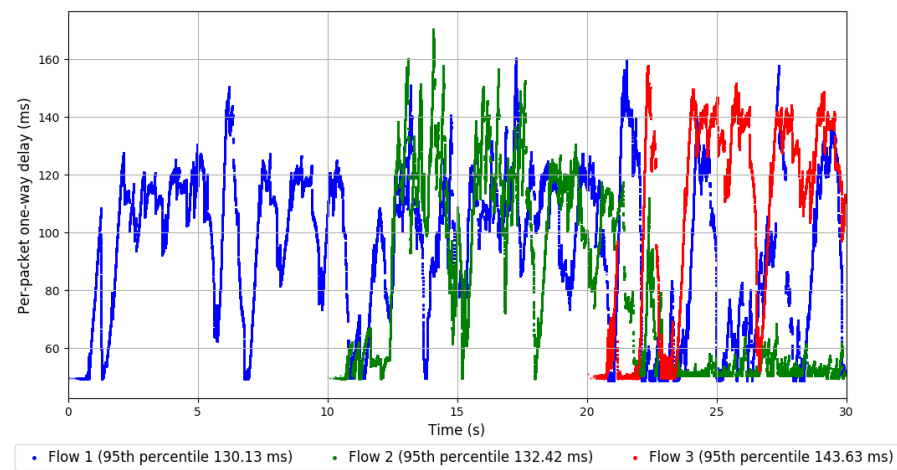
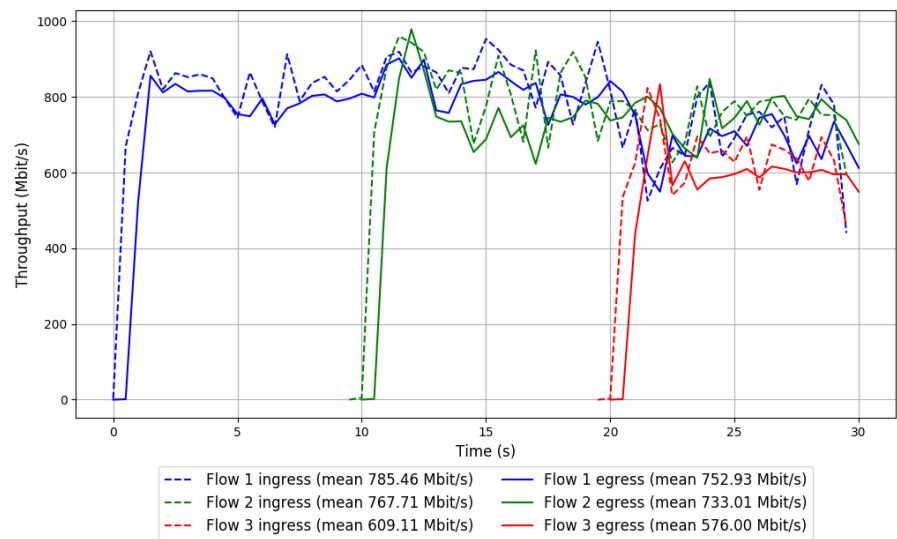


Run 5: Statistics of FillP

Start at: 2018-06-01 11:37:35
End at: 2018-06-01 11:38:05
Local clock offset: 0.02 ms
Remote clock offset: -0.072 ms

Below is generated by plot.py at 2018-06-01 15:19:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 1432.32 Mbit/s
95th percentile per-packet one-way delay: 138.629 ms
Loss rate: 4.44%
-- Flow 1:
Average throughput: 752.93 Mbit/s
95th percentile per-packet one-way delay: 130.130 ms
Loss rate: 4.14%
-- Flow 2:
Average throughput: 733.01 Mbit/s
95th percentile per-packet one-way delay: 132.423 ms
Loss rate: 4.51%
-- Flow 3:
Average throughput: 576.00 Mbit/s
95th percentile per-packet one-way delay: 143.630 ms
Loss rate: 5.44%

Run 5: Report of FillP — Data Link

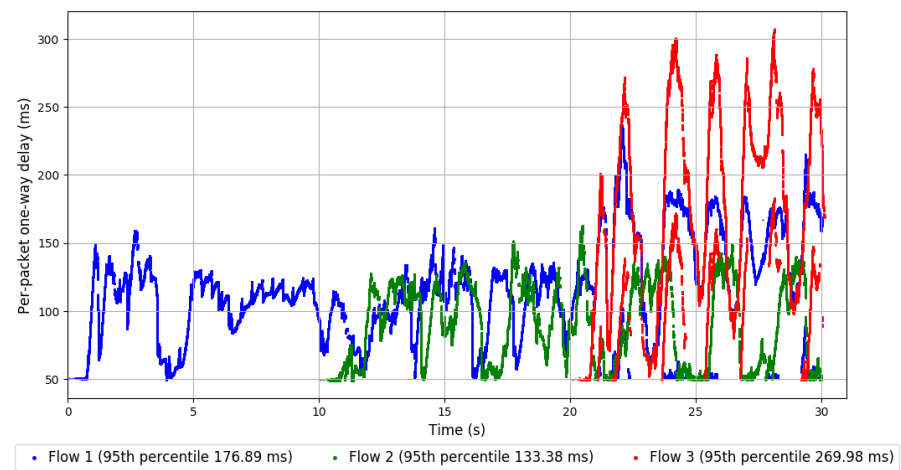
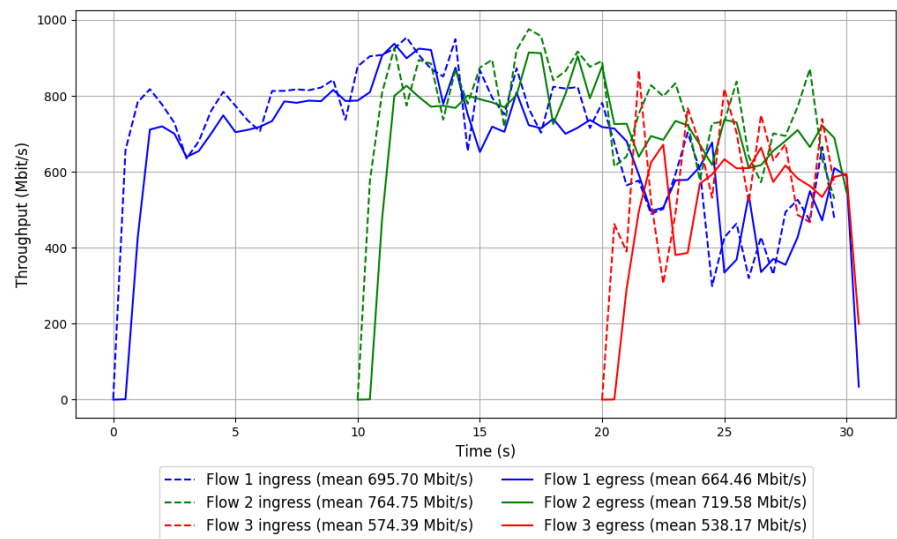


Run 6: Statistics of FillP

Start at: 2018-06-01 12:00:43
End at: 2018-06-01 12:01:13
Local clock offset: -0.024 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2018-06-01 15:19:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 1319.06 Mbit/s
95th percentile per-packet one-way delay: 203.557 ms
Loss rate: 5.02%
-- Flow 1:
Average throughput: 664.46 Mbit/s
95th percentile per-packet one-way delay: 176.888 ms
Loss rate: 4.34%
-- Flow 2:
Average throughput: 719.58 Mbit/s
95th percentile per-packet one-way delay: 133.380 ms
Loss rate: 5.90%
-- Flow 3:
Average throughput: 538.17 Mbit/s
95th percentile per-packet one-way delay: 269.978 ms
Loss rate: 5.17%

Run 6: Report of FillP — Data Link

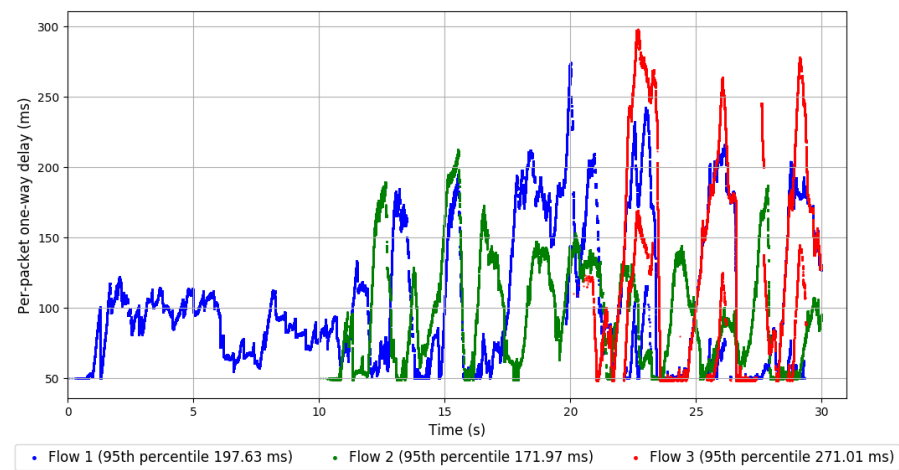
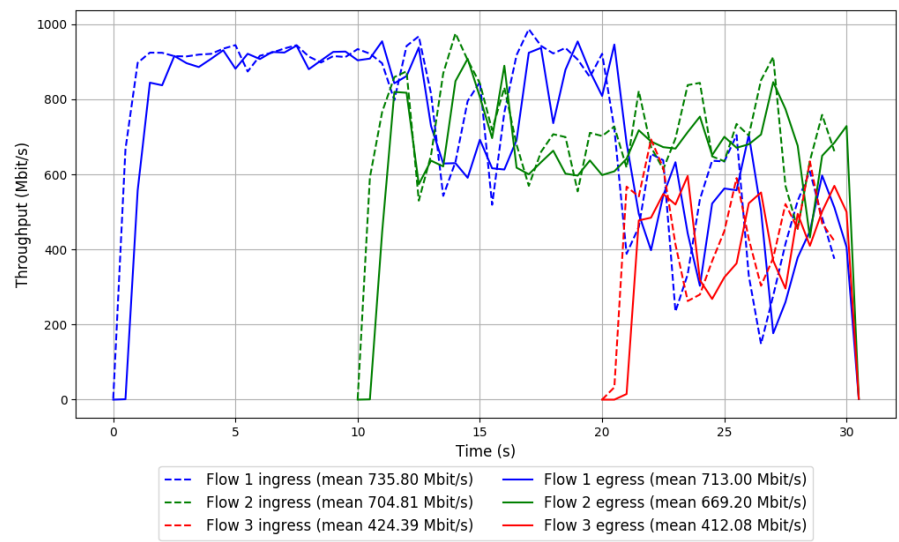


Run 7: Statistics of FillP

Start at: 2018-06-01 12:23:54
End at: 2018-06-01 12:24:24
Local clock offset: 0.365 ms
Remote clock offset: -0.037 ms

Below is generated by plot.py at 2018-06-01 15:19:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 1294.14 Mbit/s
95th percentile per-packet one-way delay: 201.662 ms
Loss rate: 3.82%
-- Flow 1:
Average throughput: 713.00 Mbit/s
95th percentile per-packet one-way delay: 197.627 ms
Loss rate: 3.10%
-- Flow 2:
Average throughput: 669.20 Mbit/s
95th percentile per-packet one-way delay: 171.965 ms
Loss rate: 5.05%
-- Flow 3:
Average throughput: 412.08 Mbit/s
95th percentile per-packet one-way delay: 271.009 ms
Loss rate: 3.49%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-06-01 12:47:15

End at: 2018-06-01 12:47:45

Local clock offset: 1.036 ms

Remote clock offset: -0.12 ms

Below is generated by plot.py at 2018-06-01 15:19:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 1056.61 Mbit/s

95th percentile per-packet one-way delay: 132.425 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 584.93 Mbit/s

95th percentile per-packet one-way delay: 132.054 ms

Loss rate: 1.57%

-- Flow 2:

Average throughput: 503.89 Mbit/s

95th percentile per-packet one-way delay: 138.627 ms

Loss rate: 0.77%

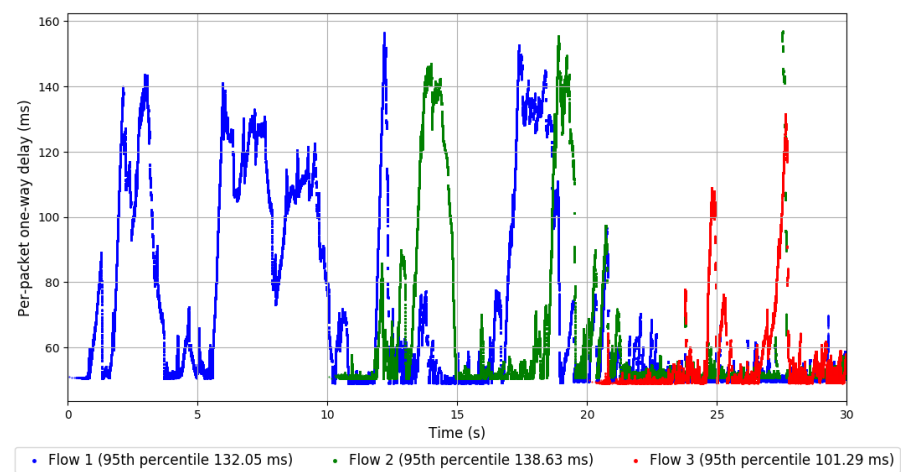
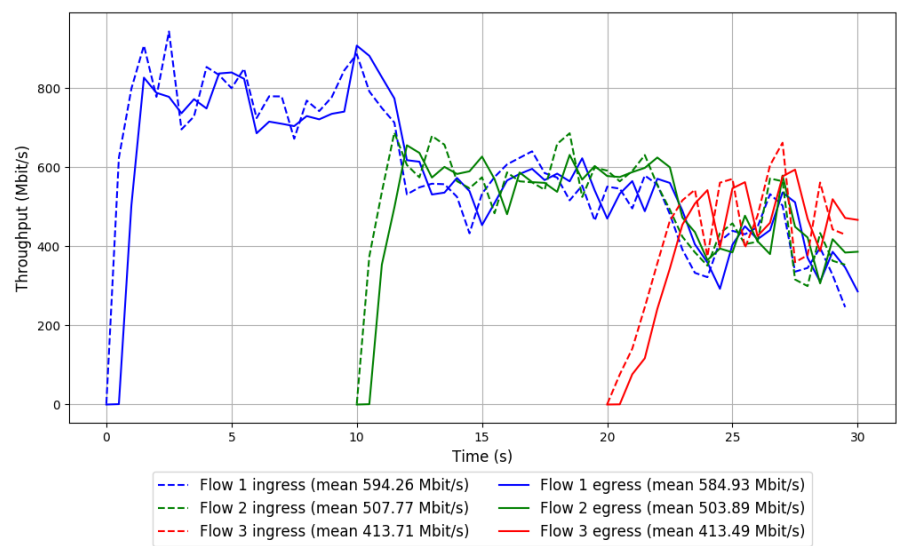
-- Flow 3:

Average throughput: 413.49 Mbit/s

95th percentile per-packet one-way delay: 101.286 ms

Loss rate: 0.00%

Run 8: Report of FillP — Data Link

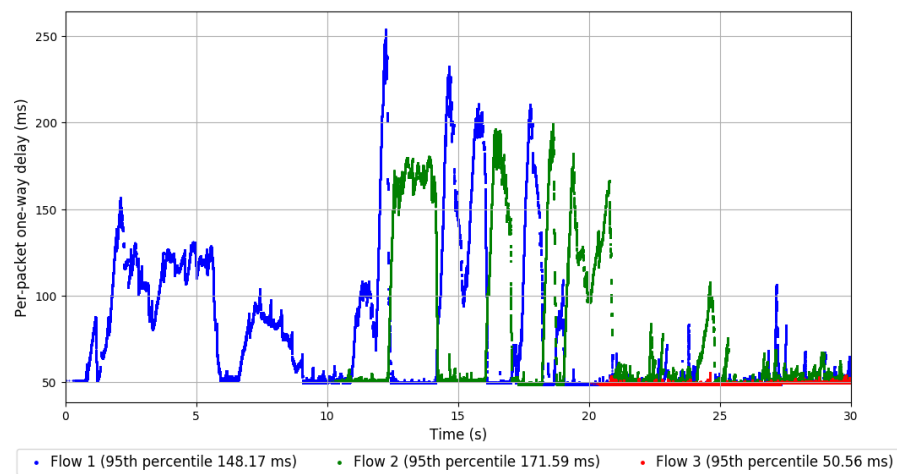
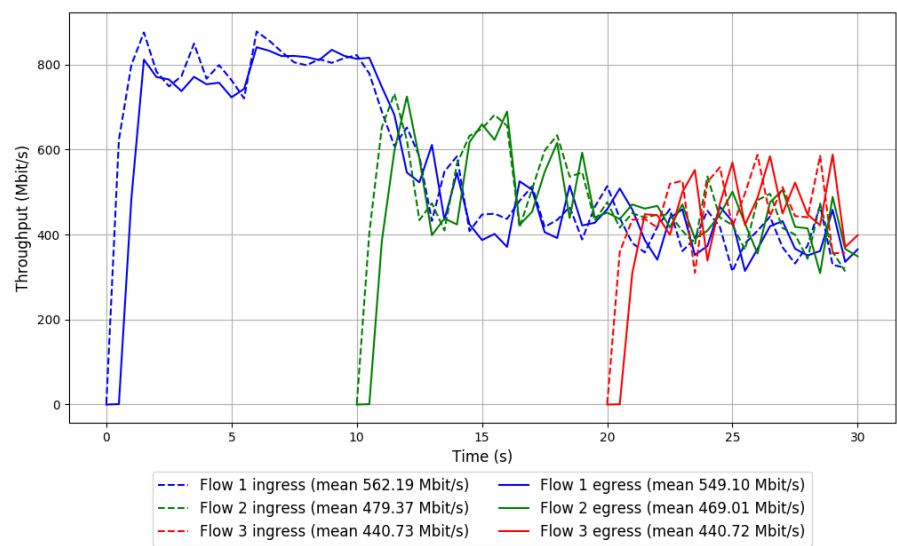


Run 9: Statistics of FillP

Start at: 2018-06-01 13:10:07
End at: 2018-06-01 13:10:37
Local clock offset: 1.207 ms
Remote clock offset: -0.043 ms

Below is generated by plot.py at 2018-06-01 15:33:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 1007.04 Mbit/s
95th percentile per-packet one-way delay: 163.065 ms
Loss rate: 1.95%
-- Flow 1:
Average throughput: 549.10 Mbit/s
95th percentile per-packet one-way delay: 148.168 ms
Loss rate: 2.33%
-- Flow 2:
Average throughput: 469.01 Mbit/s
95th percentile per-packet one-way delay: 171.595 ms
Loss rate: 2.17%
-- Flow 3:
Average throughput: 440.72 Mbit/s
95th percentile per-packet one-way delay: 50.556 ms
Loss rate: 0.00%

Run 9: Report of FillP — Data Link

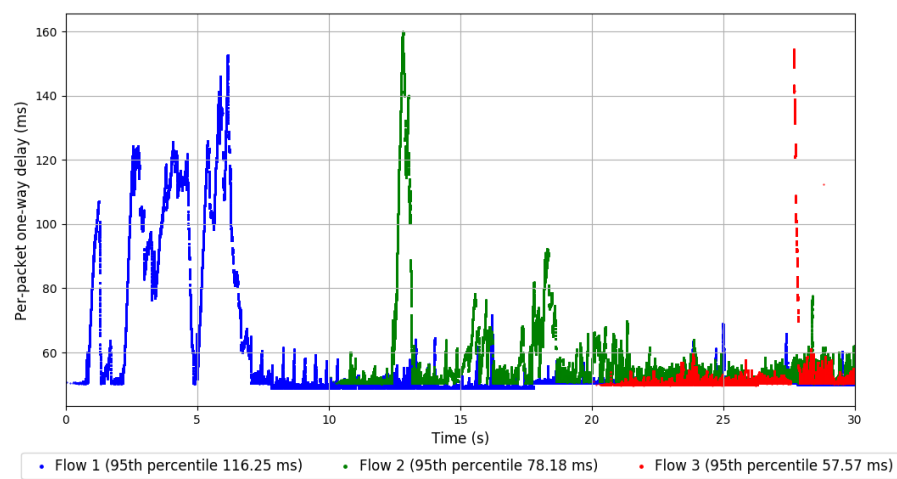
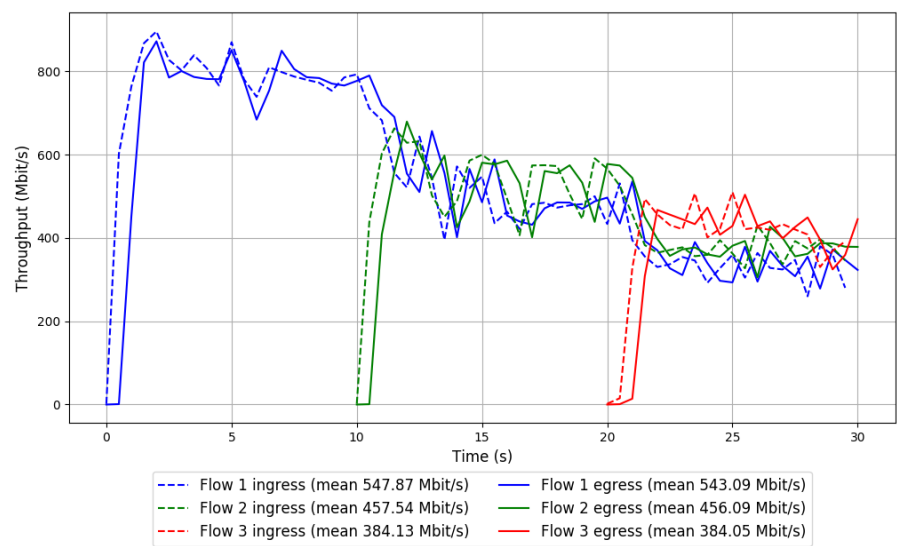


Run 10: Statistics of FillP

Start at: 2018-06-01 13:33:07
End at: 2018-06-01 13:33:37
Local clock offset: 0.638 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-06-01 15:33:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 973.39 Mbit/s
95th percentile per-packet one-way delay: 112.103 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 543.09 Mbit/s
95th percentile per-packet one-way delay: 116.255 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 456.09 Mbit/s
95th percentile per-packet one-way delay: 78.184 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 384.05 Mbit/s
95th percentile per-packet one-way delay: 57.571 ms
Loss rate: 0.00%

Run 10: Report of FillP — Data Link

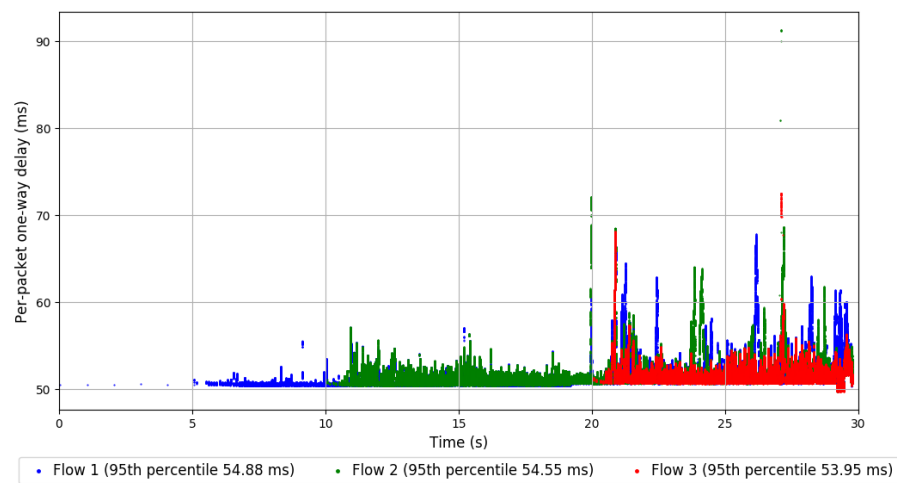
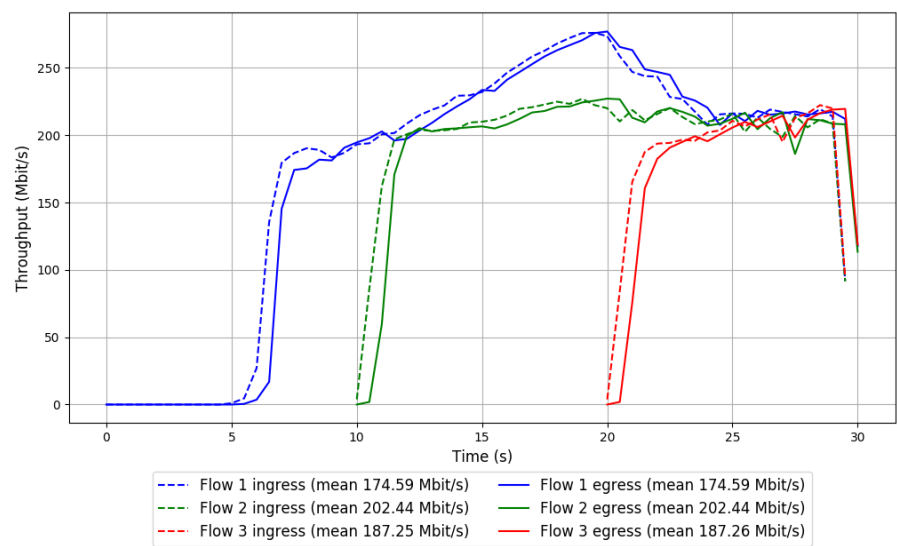


```
Run 1: Statistics of Indigo

Start at: 2018-06-01 10:08:05
End at: 2018-06-01 10:08:35
Local clock offset: -0.04 ms
Remote clock offset: 0.022 ms

# Below is generated by plot.py at 2018-06-01 15:33:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 369.89 Mbit/s
95th percentile per-packet one-way delay: 54.491 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 174.59 Mbit/s
95th percentile per-packet one-way delay: 54.876 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 202.44 Mbit/s
95th percentile per-packet one-way delay: 54.546 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 187.26 Mbit/s
95th percentile per-packet one-way delay: 53.949 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-06-01 10:31:18

End at: 2018-06-01 10:31:48

Local clock offset: -0.403 ms

Remote clock offset: 0.023 ms

Below is generated by plot.py at 2018-06-01 15:33:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 458.29 Mbit/s

95th percentile per-packet one-way delay: 57.644 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 238.65 Mbit/s

95th percentile per-packet one-way delay: 55.952 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 228.90 Mbit/s

95th percentile per-packet one-way delay: 58.103 ms

Loss rate: 0.04%

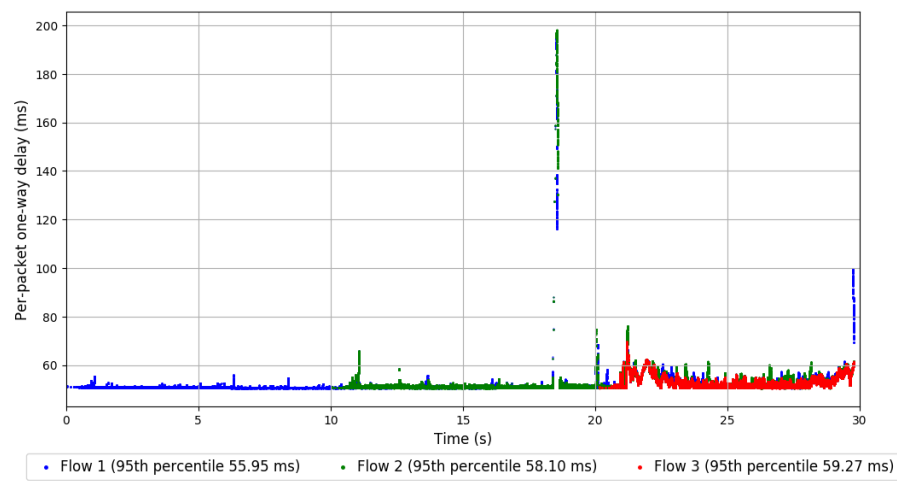
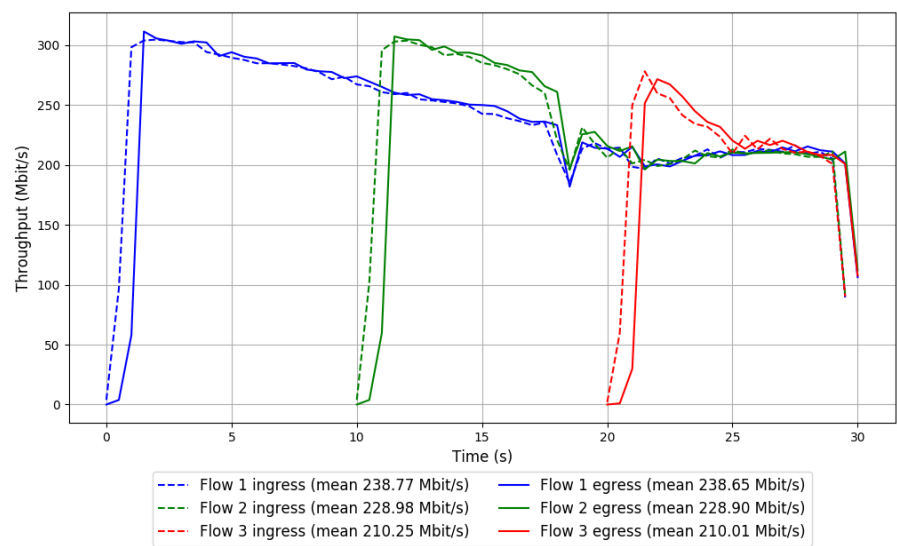
-- Flow 3:

Average throughput: 210.01 Mbit/s

95th percentile per-packet one-way delay: 59.268 ms

Loss rate: 0.12%

Run 2: Report of Indigo — Data Link

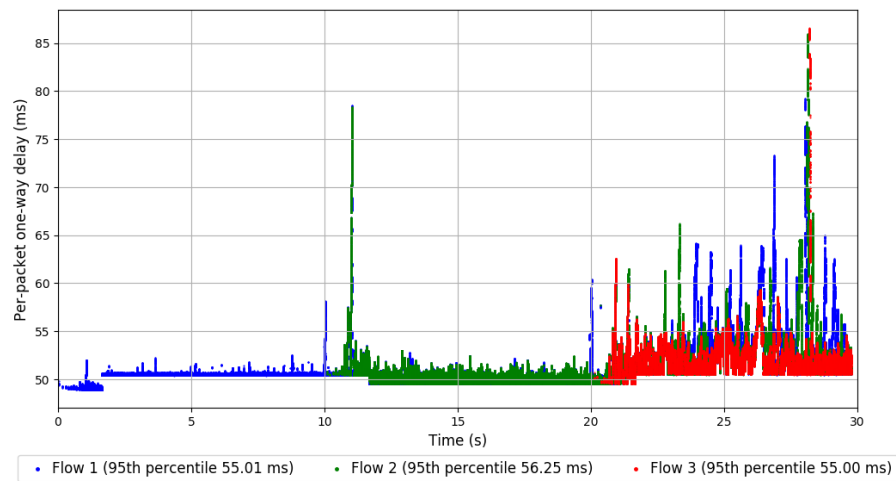
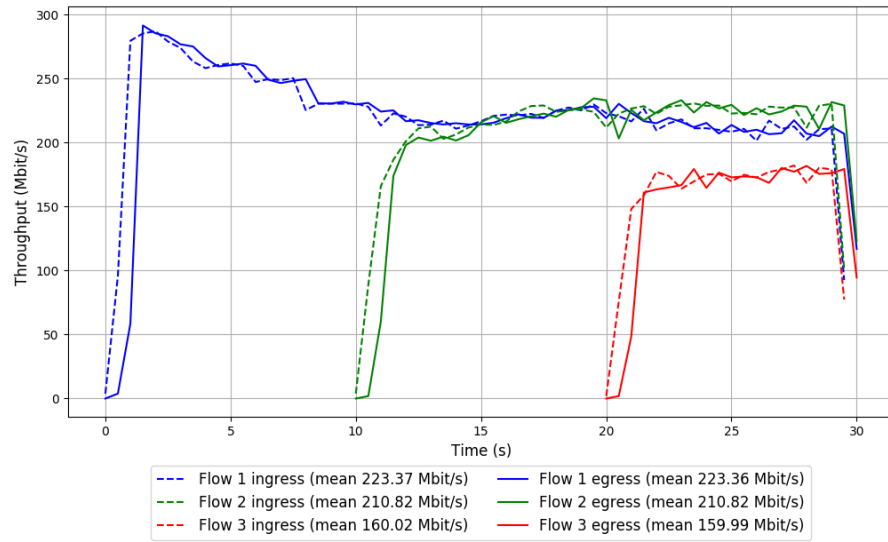


Run 3: Statistics of Indigo

Start at: 2018-06-01 10:54:53
End at: 2018-06-01 10:55:23
Local clock offset: -0.018 ms
Remote clock offset: -0.014 ms

Below is generated by plot.py at 2018-06-01 15:33:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 414.77 Mbit/s
95th percentile per-packet one-way delay: 55.443 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 223.36 Mbit/s
95th percentile per-packet one-way delay: 55.010 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 210.82 Mbit/s
95th percentile per-packet one-way delay: 56.250 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 159.99 Mbit/s
95th percentile per-packet one-way delay: 55.004 ms
Loss rate: 0.03%

Run 3: Report of Indigo — Data Link

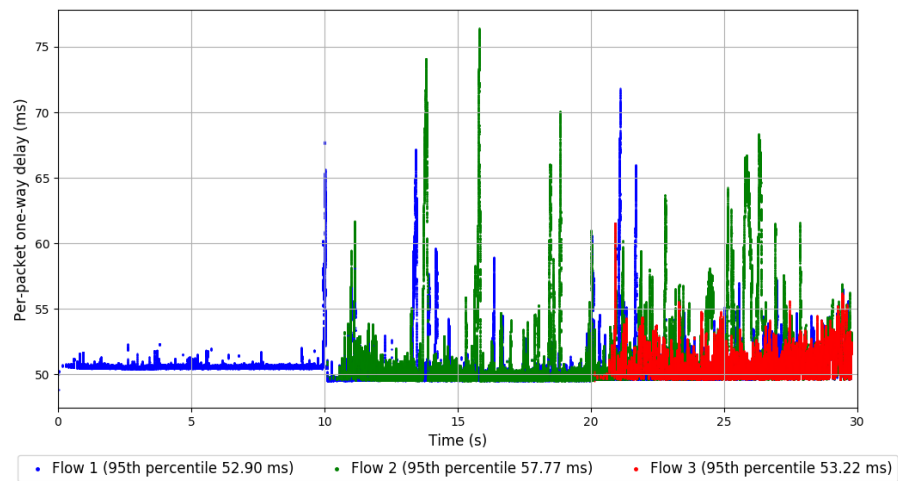
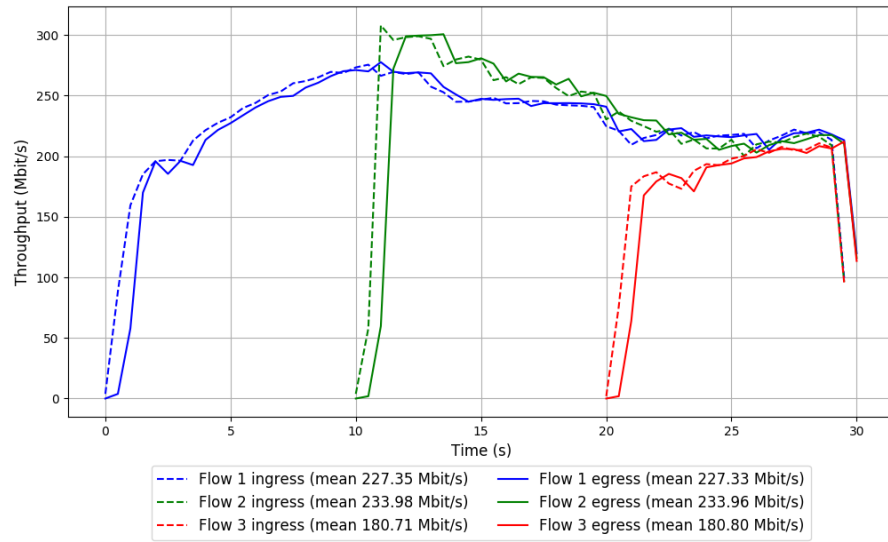


Run 4: Statistics of Indigo

Start at: 2018-06-01 11:18:04
End at: 2018-06-01 11:18:34
Local clock offset: 0.003 ms
Remote clock offset: -0.077 ms

Below is generated by plot.py at 2018-06-01 15:33:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 440.73 Mbit/s
95th percentile per-packet one-way delay: 54.414 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 227.33 Mbit/s
95th percentile per-packet one-way delay: 52.899 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 233.96 Mbit/s
95th percentile per-packet one-way delay: 57.767 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 180.80 Mbit/s
95th percentile per-packet one-way delay: 53.224 ms
Loss rate: 0.01%

Run 4: Report of Indigo — Data Link

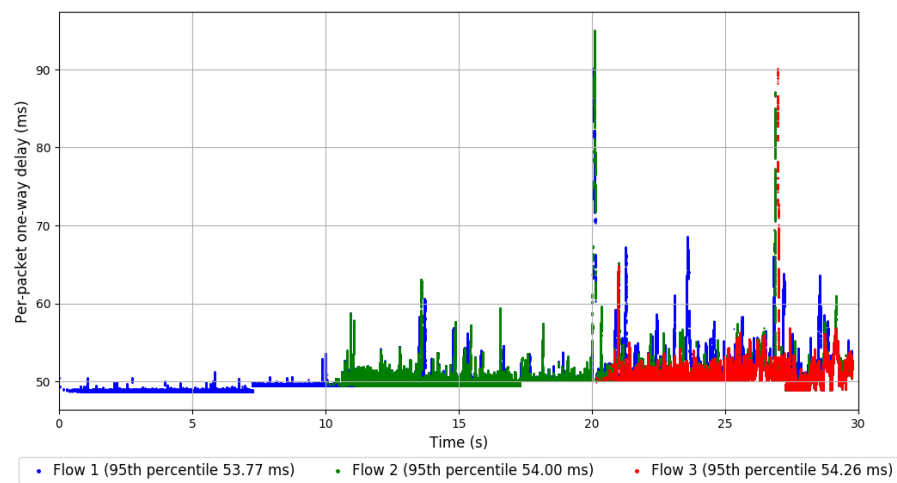
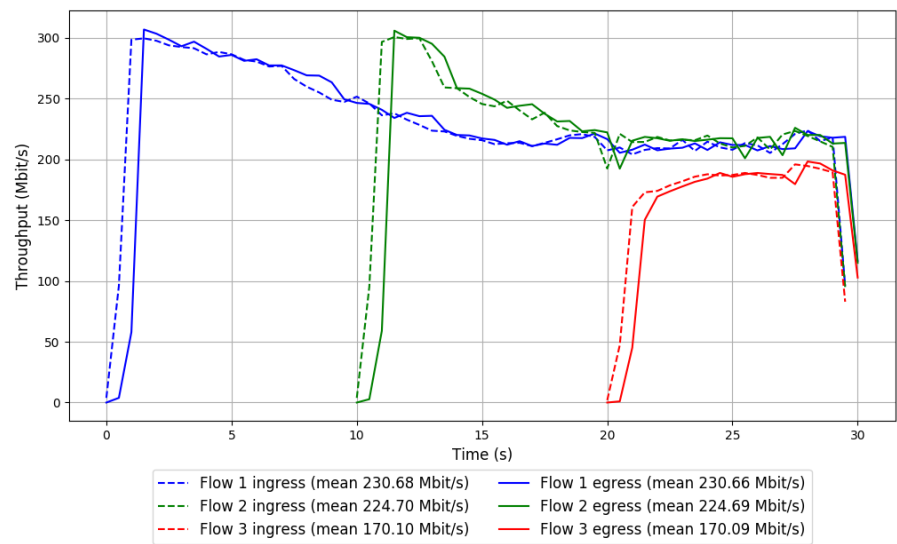


Run 5: Statistics of Indigo

Start at: 2018-06-01 11:41:17
End at: 2018-06-01 11:41:47
Local clock offset: 0.004 ms
Remote clock offset: -0.079 ms

Below is generated by plot.py at 2018-06-01 15:33:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 434.55 Mbit/s
95th percentile per-packet one-way delay: 53.948 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 230.66 Mbit/s
95th percentile per-packet one-way delay: 53.774 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 224.69 Mbit/s
95th percentile per-packet one-way delay: 54.004 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 170.09 Mbit/s
95th percentile per-packet one-way delay: 54.256 ms
Loss rate: 0.03%

Run 5: Report of Indigo — Data Link

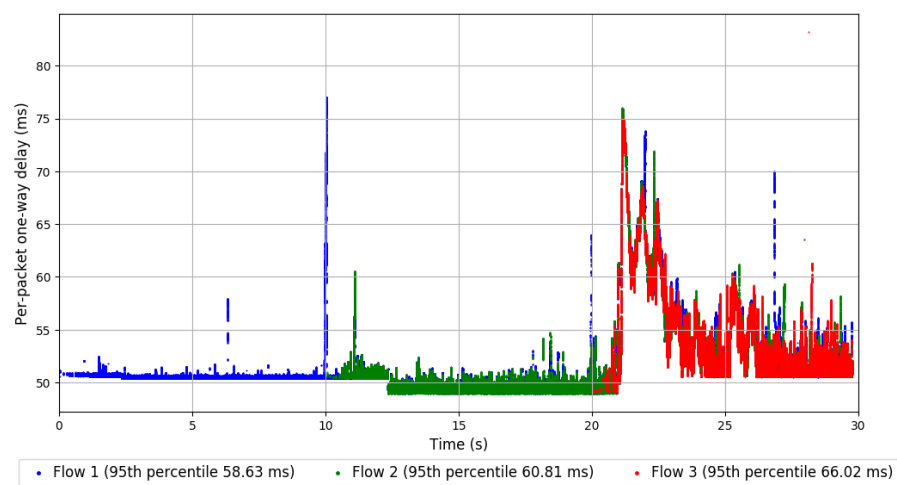
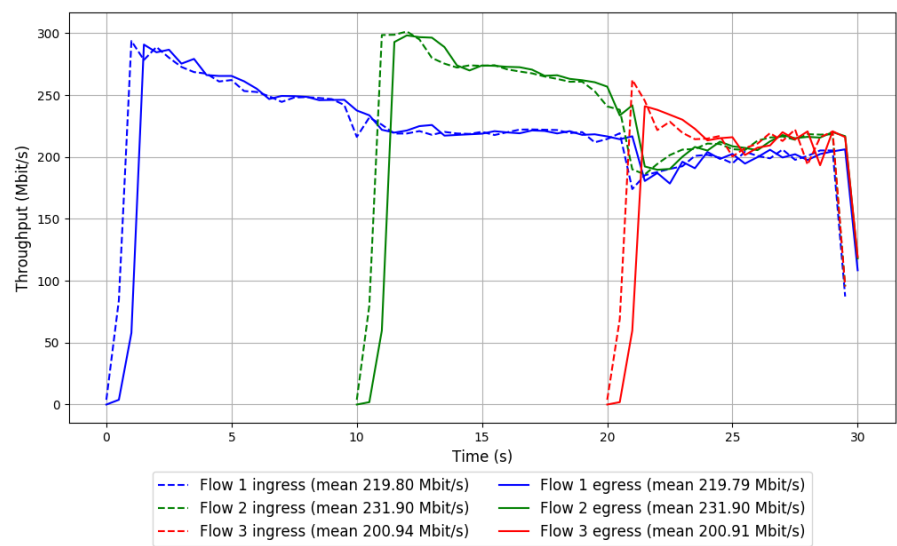


Run 6: Statistics of Indigo

Start at: 2018-06-01 12:04:22
End at: 2018-06-01 12:04:52
Local clock offset: -0.005 ms
Remote clock offset: -0.032 ms

Below is generated by plot.py at 2018-06-01 15:33:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 439.11 Mbit/s
95th percentile per-packet one-way delay: 61.473 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 219.79 Mbit/s
95th percentile per-packet one-way delay: 58.632 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 231.90 Mbit/s
95th percentile per-packet one-way delay: 60.810 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 200.91 Mbit/s
95th percentile per-packet one-way delay: 66.018 ms
Loss rate: 0.00%

Run 6: Report of Indigo — Data Link

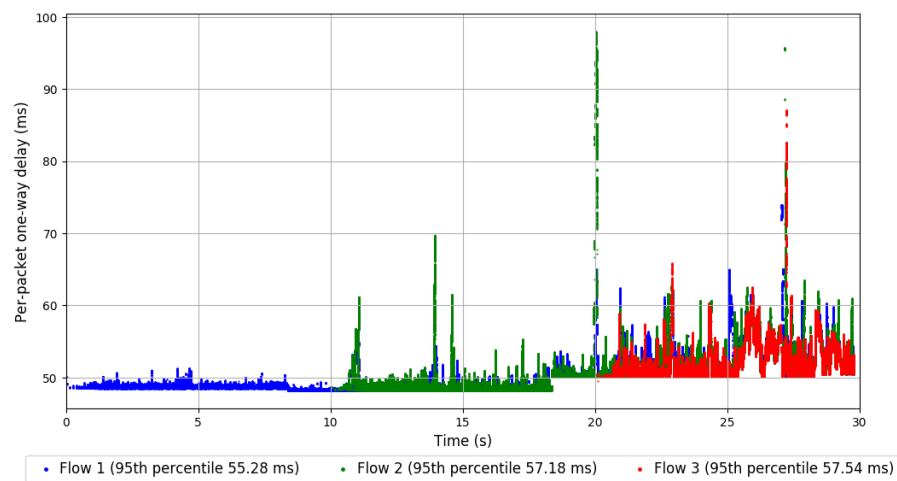
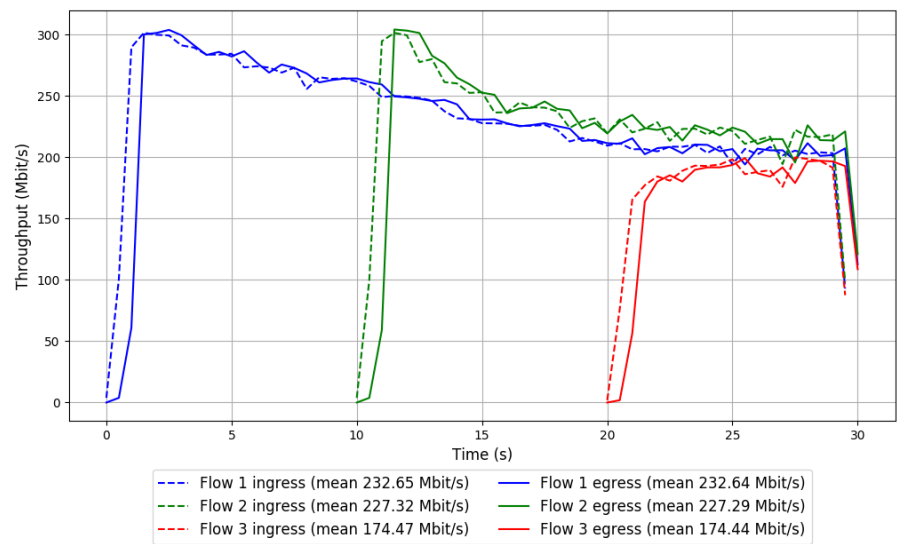


Run 7: Statistics of Indigo

Start at: 2018-06-01 12:27:36
End at: 2018-06-01 12:28:06
Local clock offset: 0.423 ms
Remote clock offset: -0.051 ms

Below is generated by plot.py at 2018-06-01 15:33:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 440.05 Mbit/s
95th percentile per-packet one-way delay: 56.441 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 232.64 Mbit/s
95th percentile per-packet one-way delay: 55.284 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 227.29 Mbit/s
95th percentile per-packet one-way delay: 57.183 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 174.44 Mbit/s
95th percentile per-packet one-way delay: 57.542 ms
Loss rate: 0.00%

Run 7: Report of Indigo — Data Link

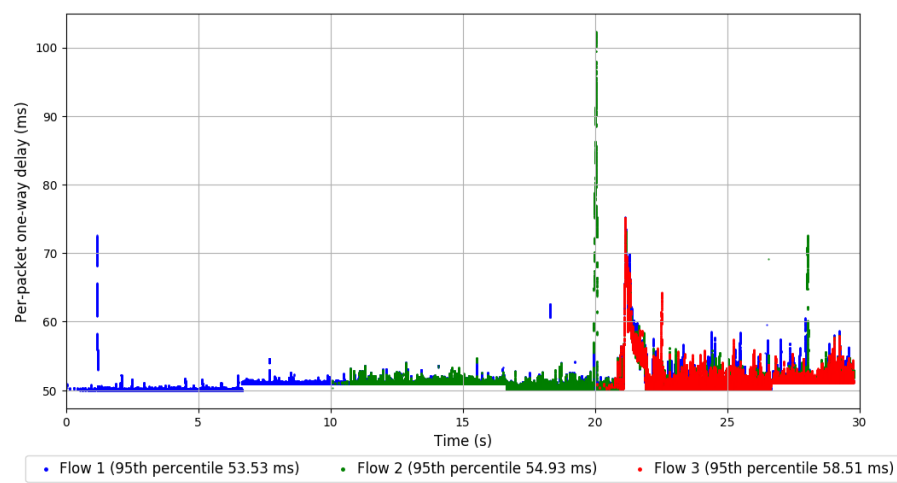
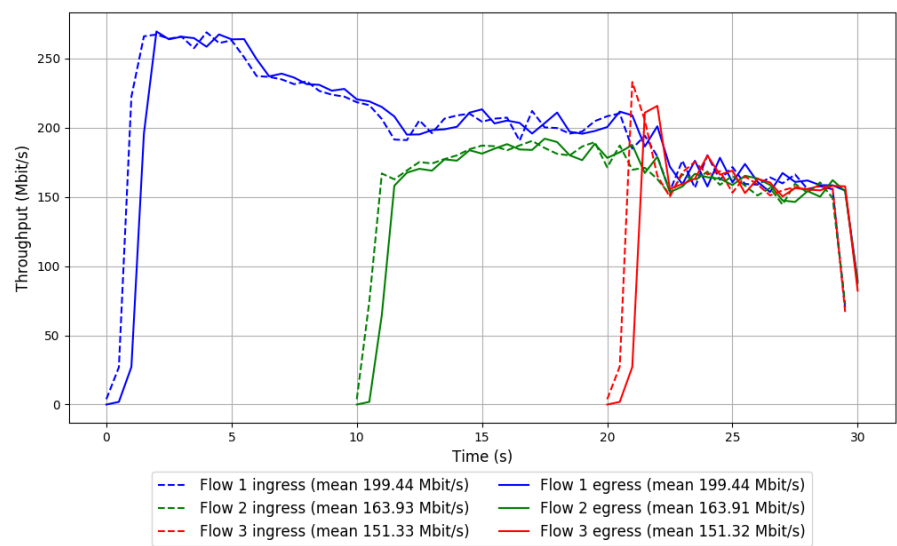


Run 8: Statistics of Indigo

Start at: 2018-06-01 12:50:48
End at: 2018-06-01 12:51:18
Local clock offset: 0.883 ms
Remote clock offset: -0.117 ms

Below is generated by plot.py at 2018-06-01 15:33:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 357.58 Mbit/s
95th percentile per-packet one-way delay: 55.032 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 199.44 Mbit/s
95th percentile per-packet one-way delay: 53.528 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 163.91 Mbit/s
95th percentile per-packet one-way delay: 54.929 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 151.32 Mbit/s
95th percentile per-packet one-way delay: 58.508 ms
Loss rate: 0.00%

Run 8: Report of Indigo — Data Link

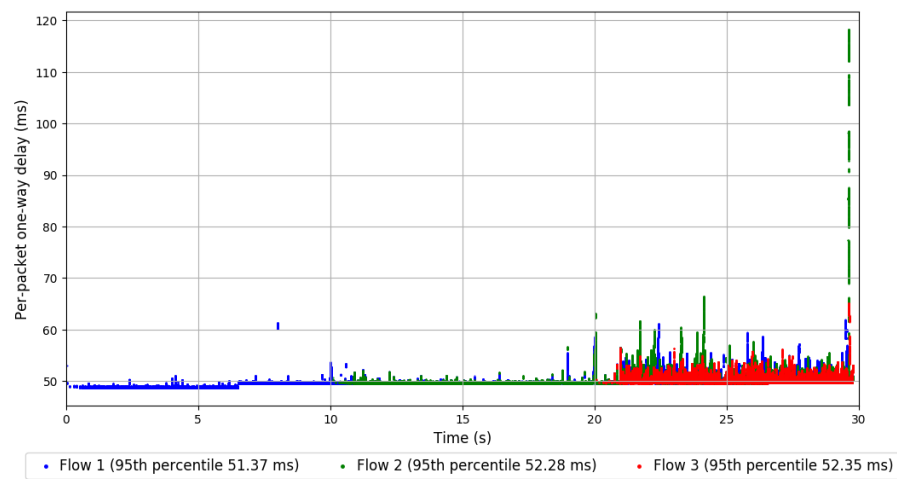
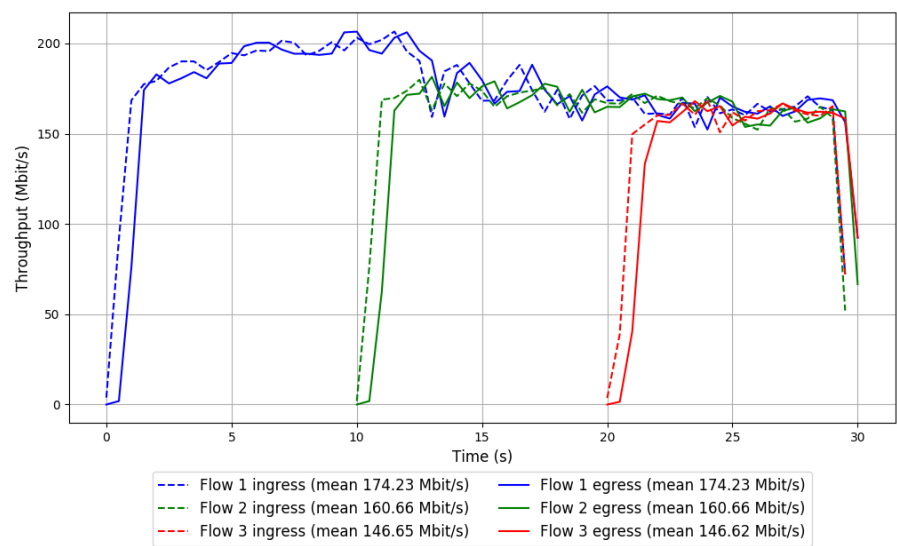


Run 9: Statistics of Indigo

Start at: 2018-06-01 13:13:38
End at: 2018-06-01 13:14:08
Local clock offset: 0.947 ms
Remote clock offset: -0.072 ms

Below is generated by plot.py at 2018-06-01 15:33:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 328.50 Mbit/s
95th percentile per-packet one-way delay: 51.895 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 174.23 Mbit/s
95th percentile per-packet one-way delay: 51.373 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 160.66 Mbit/s
95th percentile per-packet one-way delay: 52.285 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 146.62 Mbit/s
95th percentile per-packet one-way delay: 52.354 ms
Loss rate: 0.01%

Run 9: Report of Indigo — Data Link

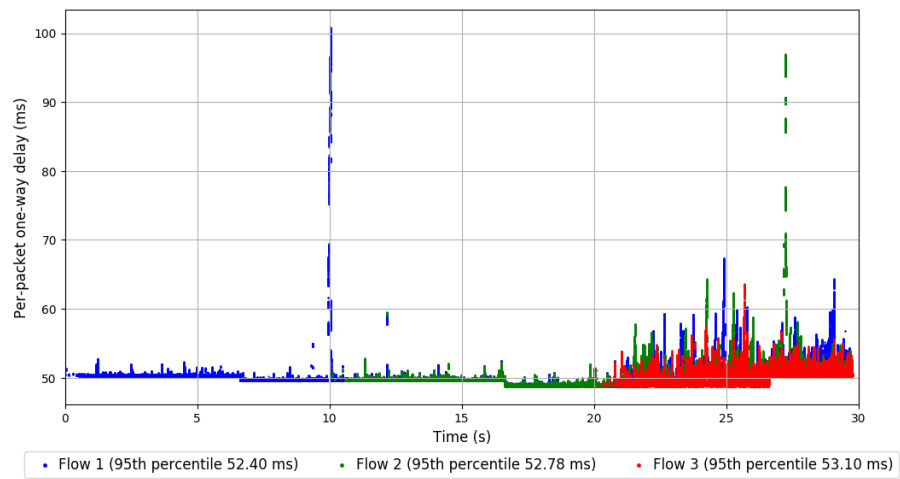
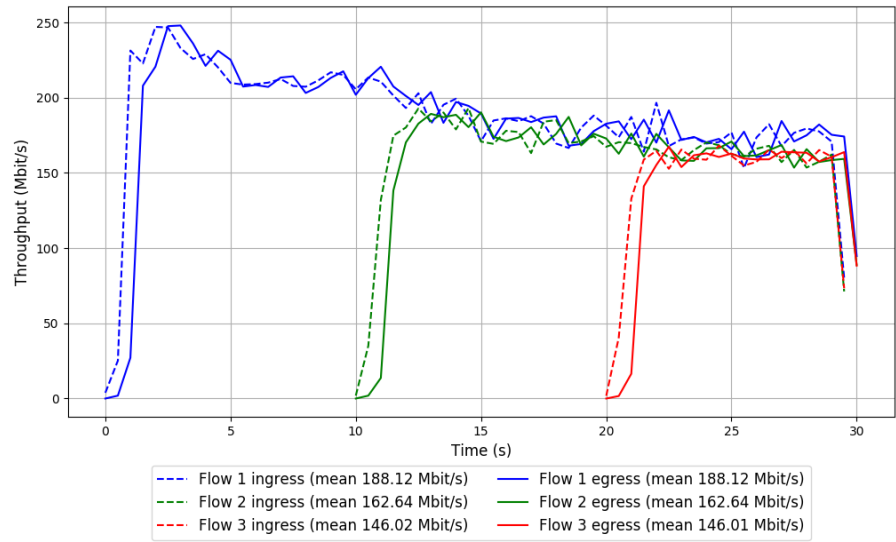


Run 10: Statistics of Indigo

Start at: 2018-06-01 13:36:38
End at: 2018-06-01 13:37:08
Local clock offset: 0.683 ms
Remote clock offset: -0.096 ms

Below is generated by plot.py at 2018-06-01 15:33:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 343.16 Mbit/s
95th percentile per-packet one-way delay: 52.687 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 188.12 Mbit/s
95th percentile per-packet one-way delay: 52.398 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 162.64 Mbit/s
95th percentile per-packet one-way delay: 52.776 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 146.01 Mbit/s
95th percentile per-packet one-way delay: 53.099 ms
Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

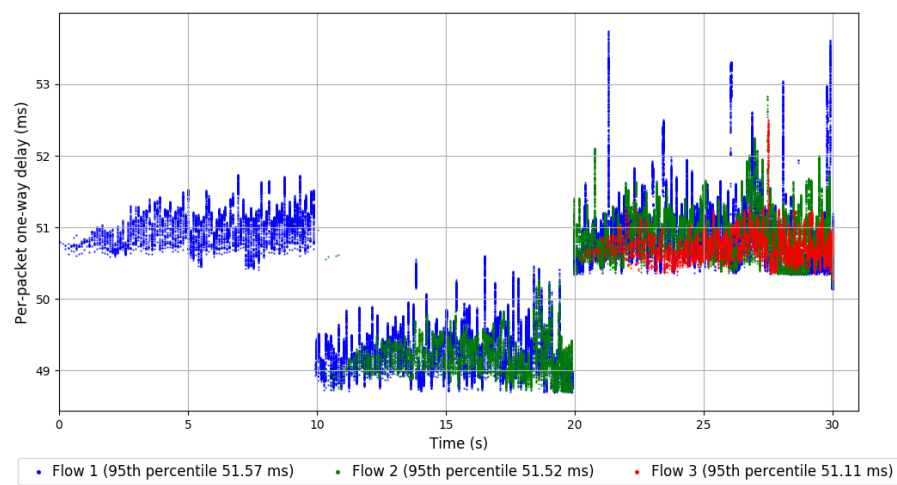
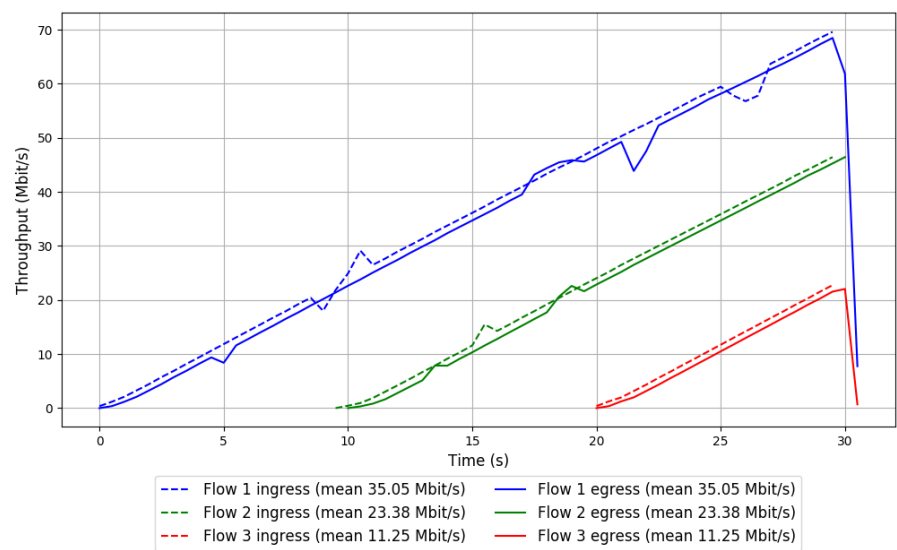


```
Run 1: Statistics of LEDBAT

Start at: 2018-06-01 10:24:45
End at: 2018-06-01 10:25:15
Local clock offset: -0.027 ms
Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2018-06-01 15:33:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 54.33 Mbit/s
95th percentile per-packet one-way delay: 51.536 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 35.05 Mbit/s
95th percentile per-packet one-way delay: 51.574 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 23.38 Mbit/s
95th percentile per-packet one-way delay: 51.523 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.25 Mbit/s
95th percentile per-packet one-way delay: 51.110 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-06-01 10:48:19

End at: 2018-06-01 10:48:49

Local clock offset: -0.037 ms

Remote clock offset: 0.083 ms

Below is generated by plot.py at 2018-06-01 15:33:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.50 Mbit/s

95th percentile per-packet one-way delay: 51.593 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 30.53 Mbit/s

95th percentile per-packet one-way delay: 51.681 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 24.11 Mbit/s

95th percentile per-packet one-way delay: 51.493 ms

Loss rate: 0.00%

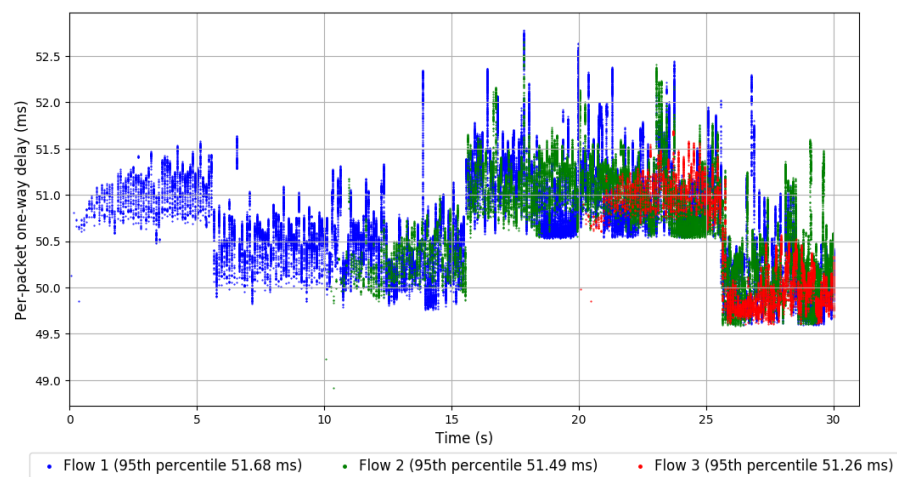
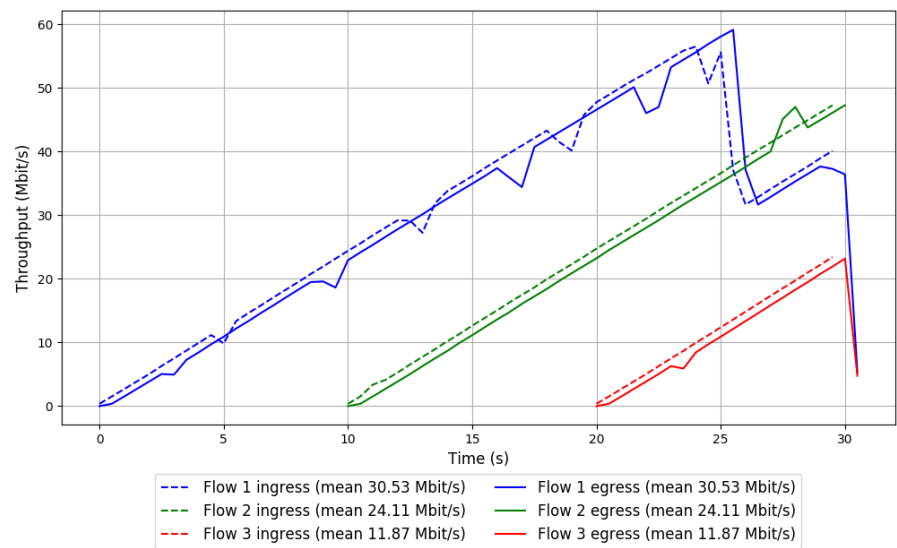
-- Flow 3:

Average throughput: 11.87 Mbit/s

95th percentile per-packet one-way delay: 51.255 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

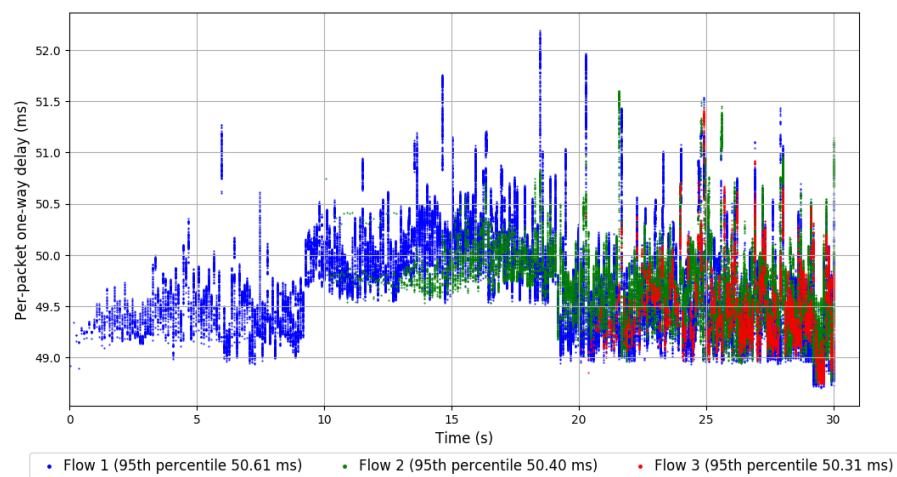
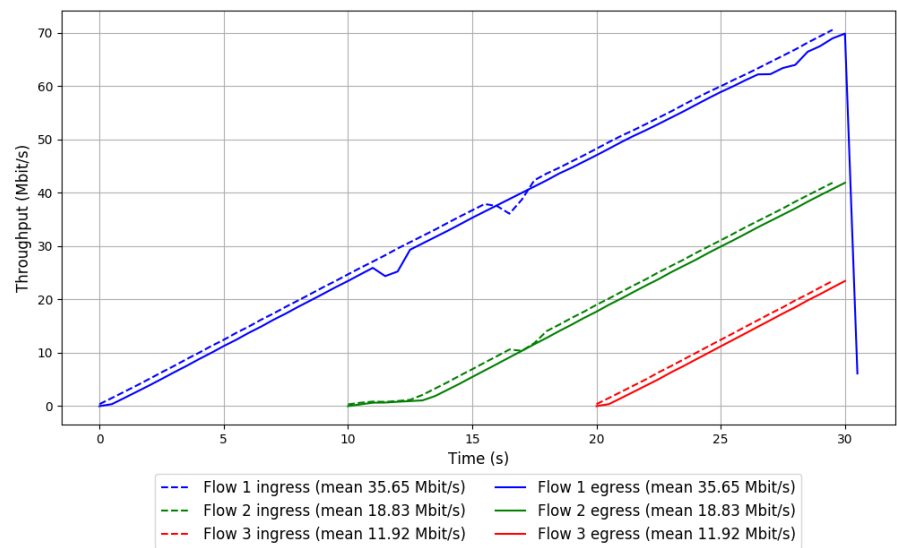


Run 3: Statistics of LEDBAT

Start at: 2018-06-01 11:11:25
End at: 2018-06-01 11:11:55
Local clock offset: -0.01 ms
Remote clock offset: -0.049 ms

Below is generated by plot.py at 2018-06-01 15:33:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 52.13 Mbit/s
95th percentile per-packet one-way delay: 50.544 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 35.65 Mbit/s
95th percentile per-packet one-way delay: 50.608 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 18.83 Mbit/s
95th percentile per-packet one-way delay: 50.401 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.92 Mbit/s
95th percentile per-packet one-way delay: 50.309 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-06-01 11:34:40

End at: 2018-06-01 11:35:10

Local clock offset: 0.367 ms

Remote clock offset: -0.07 ms

Below is generated by plot.py at 2018-06-01 15:33:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.86 Mbit/s

95th percentile per-packet one-way delay: 51.260 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 31.60 Mbit/s

95th percentile per-packet one-way delay: 51.312 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 23.18 Mbit/s

95th percentile per-packet one-way delay: 51.180 ms

Loss rate: 0.00%

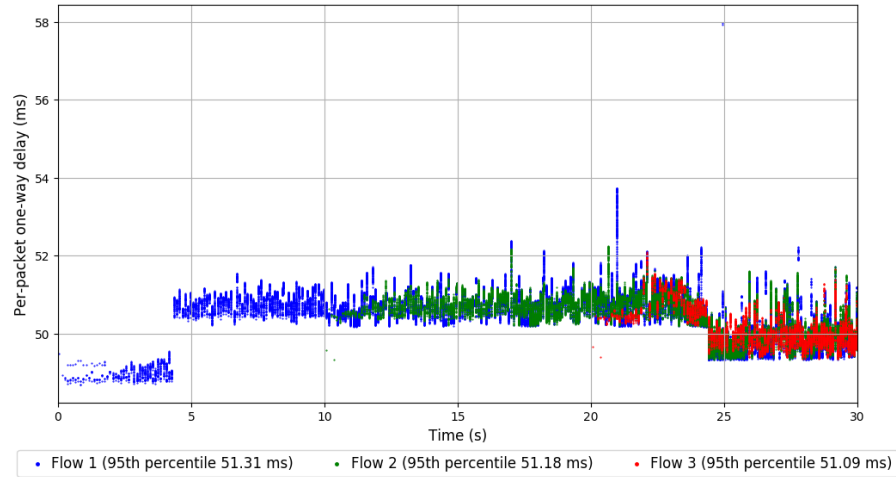
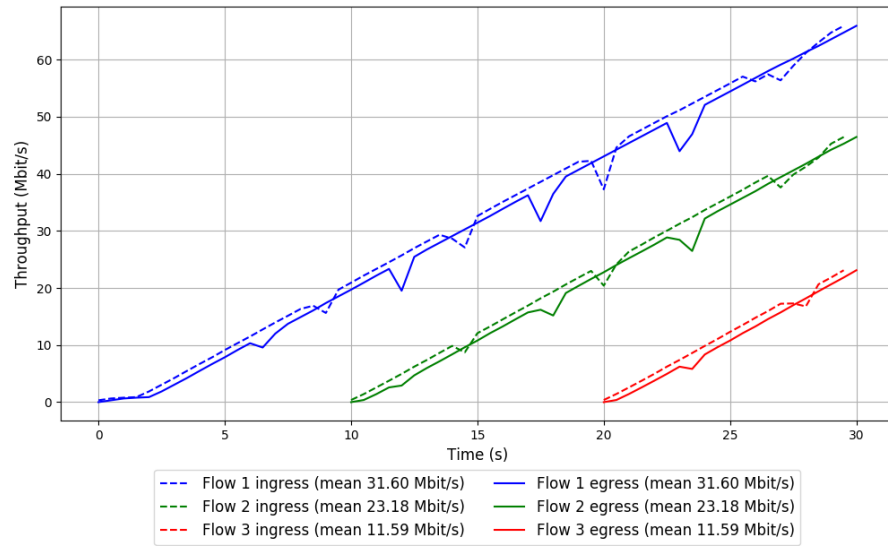
-- Flow 3:

Average throughput: 11.59 Mbit/s

95th percentile per-packet one-way delay: 51.091 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

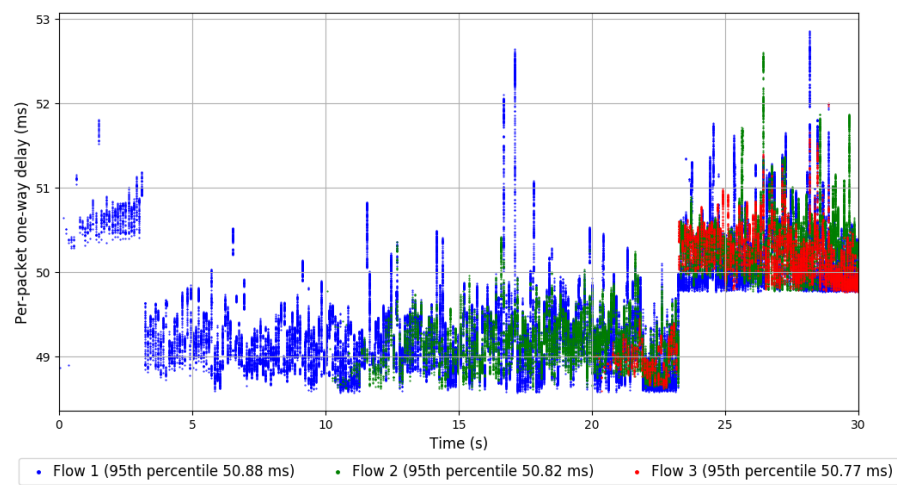
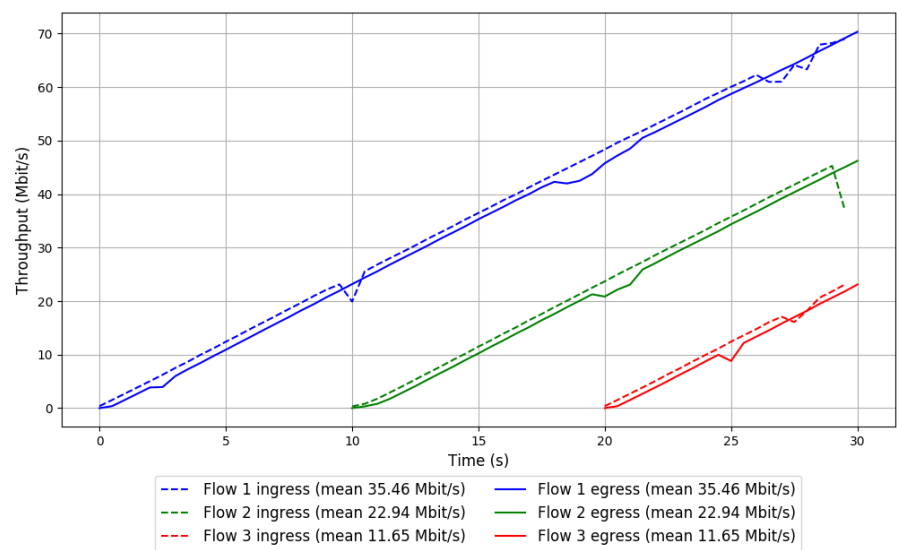


Run 5: Statistics of LEDBAT

Start at: 2018-06-01 11:57:51
End at: 2018-06-01 11:58:21
Local clock offset: 0.352 ms
Remote clock offset: -0.067 ms

Below is generated by plot.py at 2018-06-01 15:33:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 54.55 Mbit/s
95th percentile per-packet one-way delay: 50.852 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 35.46 Mbit/s
95th percentile per-packet one-way delay: 50.883 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 22.94 Mbit/s
95th percentile per-packet one-way delay: 50.824 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.65 Mbit/s
95th percentile per-packet one-way delay: 50.773 ms
Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

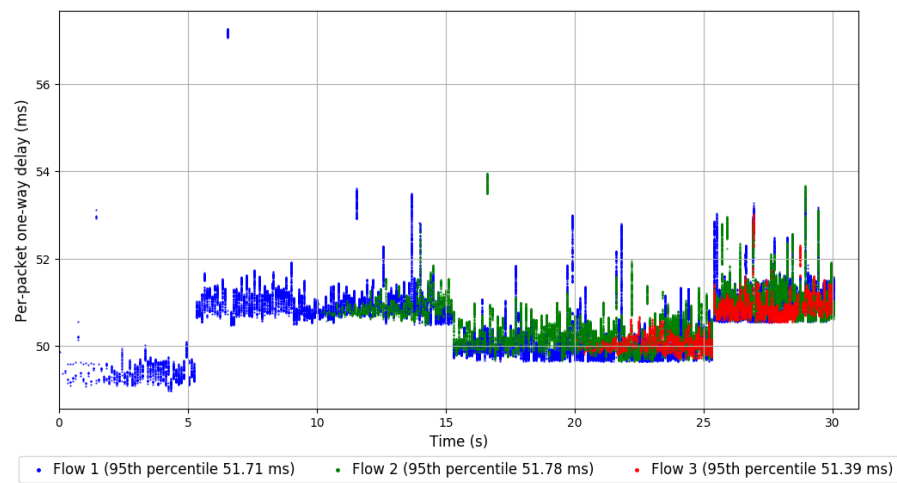
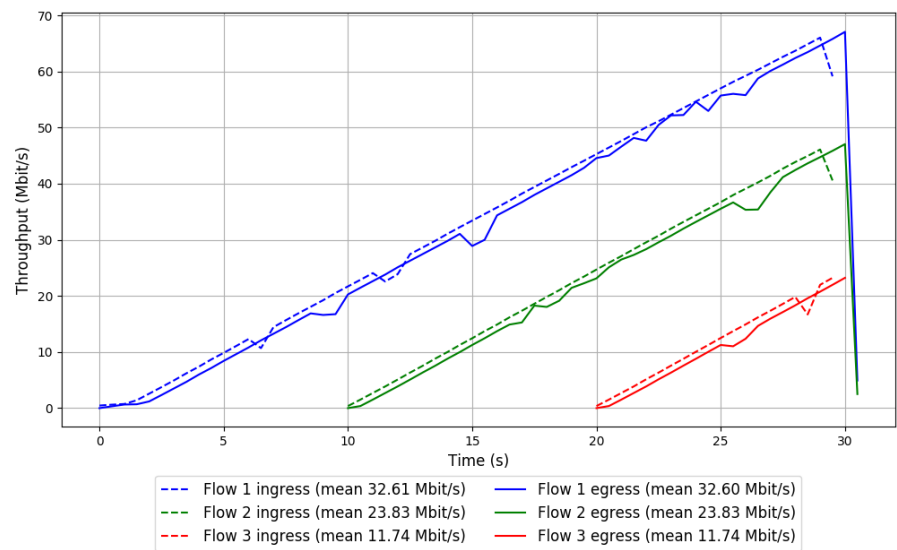


Run 6: Statistics of LEDBAT

Start at: 2018-06-01 12:20:59
End at: 2018-06-01 12:21:29
Local clock offset: -0.008 ms
Remote clock offset: -0.053 ms

Below is generated by plot.py at 2018-06-01 15:33:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 52.35 Mbit/s
95th percentile per-packet one-way delay: 51.703 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 32.60 Mbit/s
95th percentile per-packet one-way delay: 51.711 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 23.83 Mbit/s
95th percentile per-packet one-way delay: 51.781 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 11.74 Mbit/s
95th percentile per-packet one-way delay: 51.394 ms
Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link

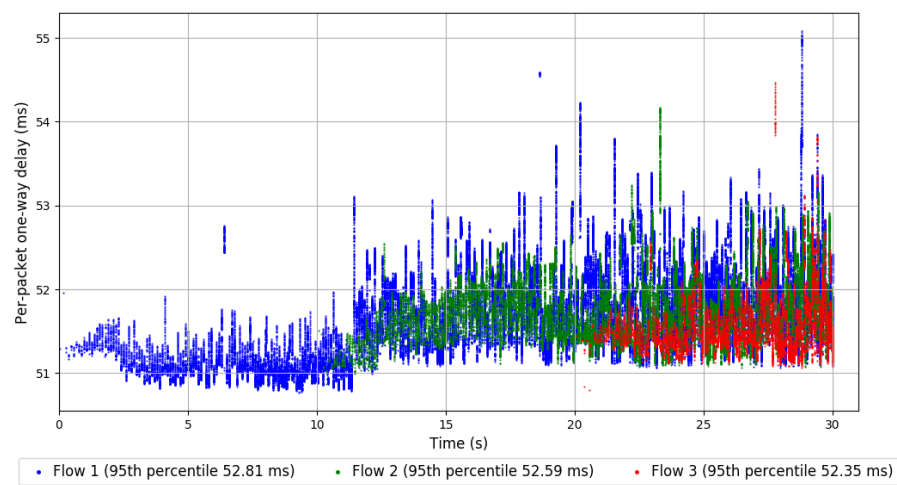
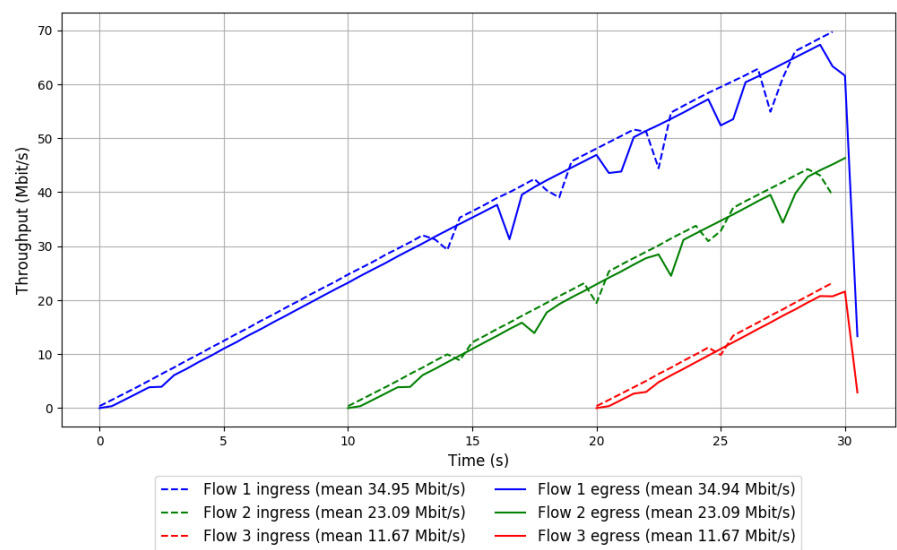


Run 7: Statistics of LEDBAT

Start at: 2018-06-01 12:44:22
End at: 2018-06-01 12:44:52
Local clock offset: 0.505 ms
Remote clock offset: -0.075 ms

Below is generated by plot.py at 2018-06-01 15:33:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 54.15 Mbit/s
95th percentile per-packet one-way delay: 52.724 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 34.94 Mbit/s
95th percentile per-packet one-way delay: 52.812 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 23.09 Mbit/s
95th percentile per-packet one-way delay: 52.590 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.67 Mbit/s
95th percentile per-packet one-way delay: 52.349 ms
Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link

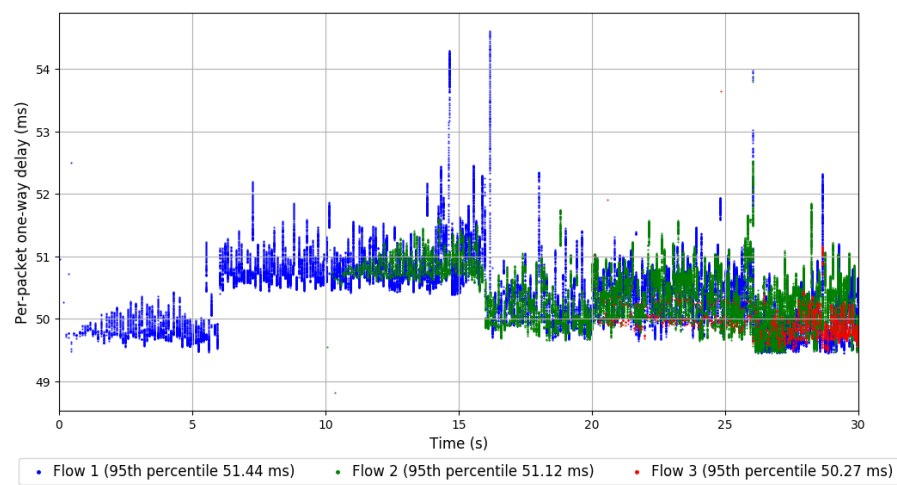
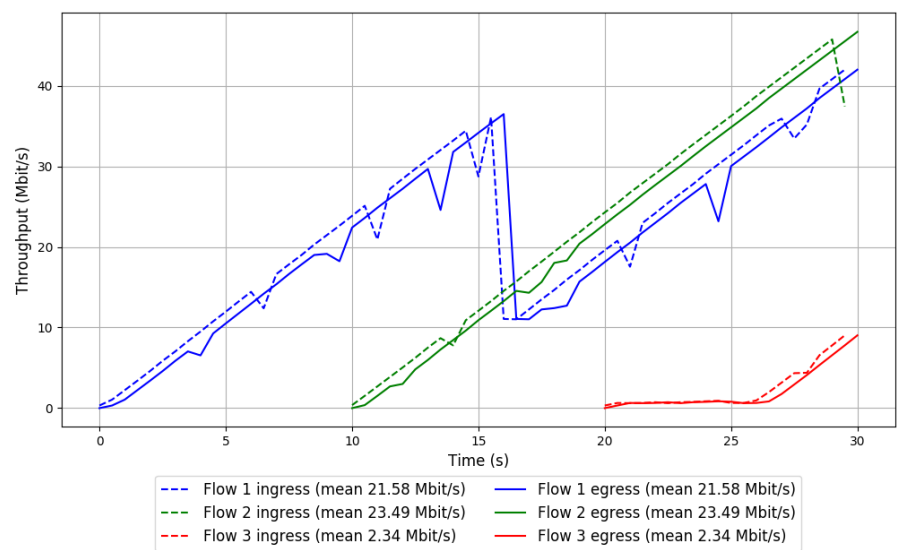


Run 8: Statistics of LEDBAT

Start at: 2018-06-01 13:07:19
End at: 2018-06-01 13:07:49
Local clock offset: 1.683 ms
Remote clock offset: -0.067 ms

Below is generated by plot.py at 2018-06-01 15:33:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 37.96 Mbit/s
95th percentile per-packet one-way delay: 51.311 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 21.58 Mbit/s
95th percentile per-packet one-way delay: 51.436 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 23.49 Mbit/s
95th percentile per-packet one-way delay: 51.116 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 50.269 ms
Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link

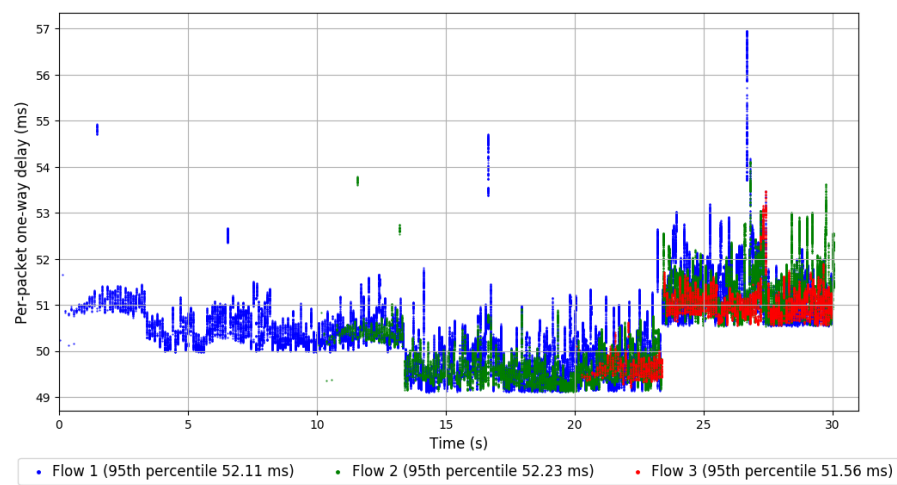
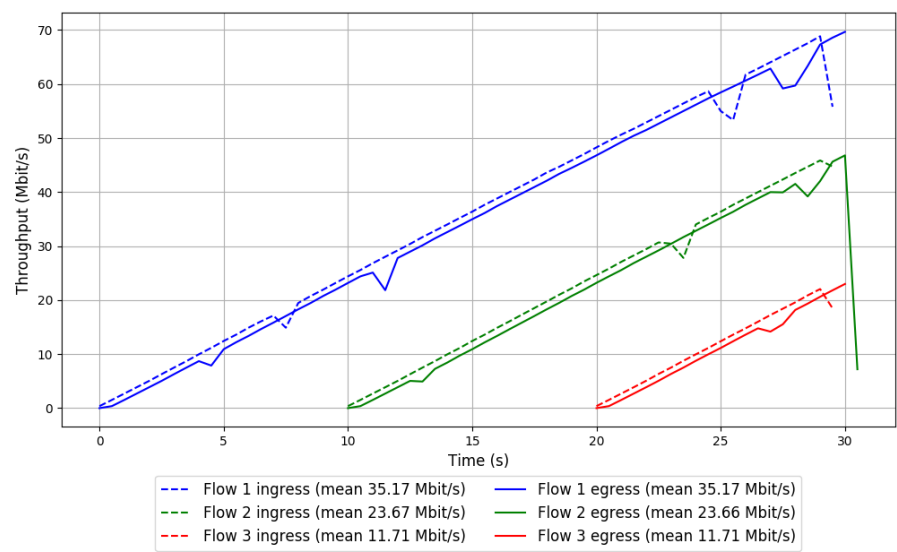


Run 9: Statistics of LEDBAT

Start at: 2018-06-01 13:30:11
End at: 2018-06-01 13:30:41
Local clock offset: 0.225 ms
Remote clock offset: -0.078 ms

Below is generated by plot.py at 2018-06-01 15:33:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 54.69 Mbit/s
95th percentile per-packet one-way delay: 52.121 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 35.17 Mbit/s
95th percentile per-packet one-way delay: 52.110 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 23.66 Mbit/s
95th percentile per-packet one-way delay: 52.226 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.71 Mbit/s
95th percentile per-packet one-way delay: 51.556 ms
Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link

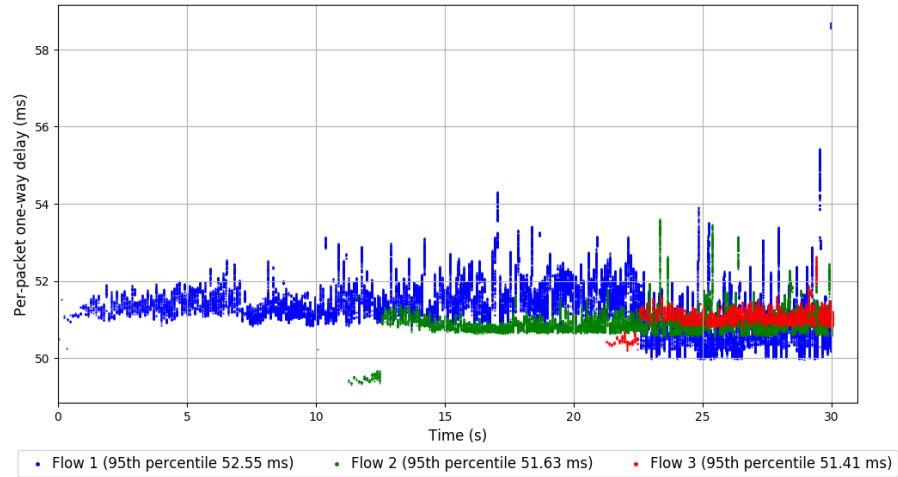
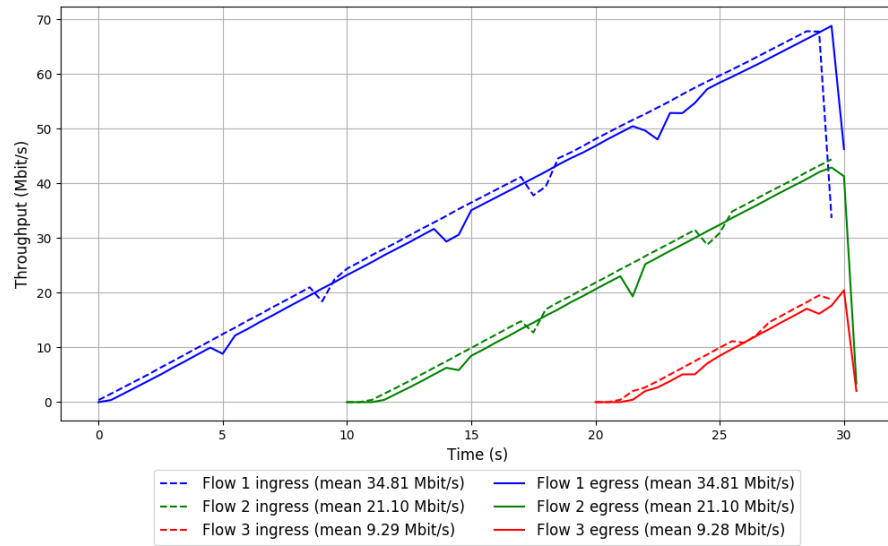


Run 10: Statistics of LEDBAT

Start at: 2018-06-01 13:53:12
End at: 2018-06-01 13:53:42
Local clock offset: 0.625 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2018-06-01 15:33:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 51.87 Mbit/s
95th percentile per-packet one-way delay: 52.389 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 34.81 Mbit/s
95th percentile per-packet one-way delay: 52.552 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 21.10 Mbit/s
95th percentile per-packet one-way delay: 51.629 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.28 Mbit/s
95th percentile per-packet one-way delay: 51.412 ms
Loss rate: 0.16%

Run 10: Report of LEDBAT — Data Link

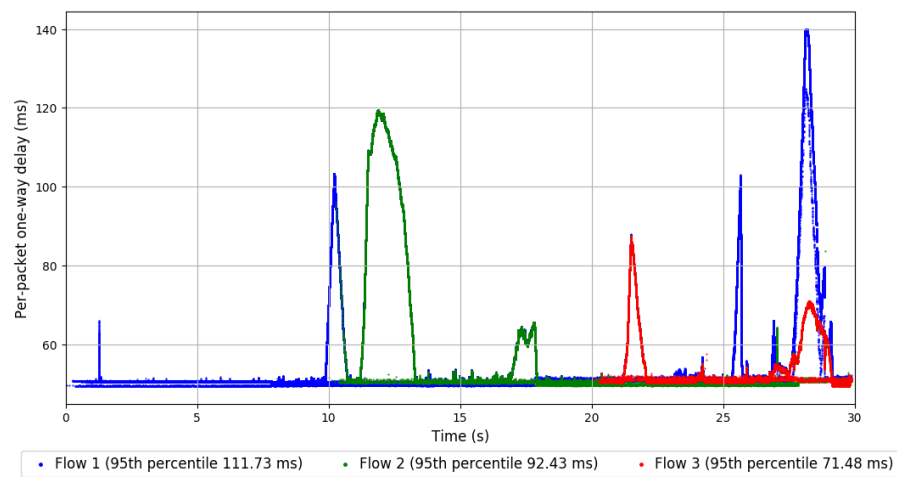
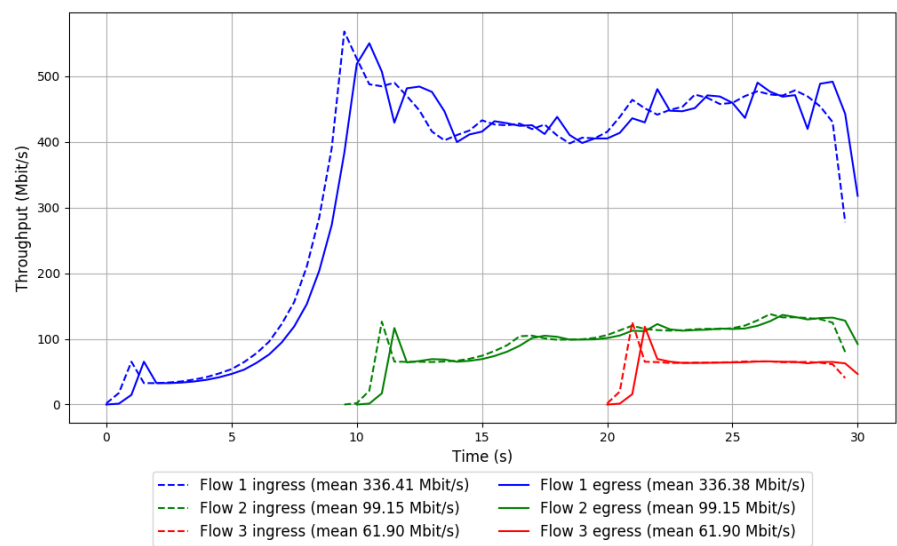


Run 1: Statistics of PCC-Allegro

Start at: 2018-06-01 10:09:37
End at: 2018-06-01 10:10:07
Local clock offset: -0.015 ms
Remote clock offset: -0.041 ms

Below is generated by plot.py at 2018-06-01 15:39:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 422.78 Mbit/s
95th percentile per-packet one-way delay: 109.529 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 336.38 Mbit/s
95th percentile per-packet one-way delay: 111.734 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 99.15 Mbit/s
95th percentile per-packet one-way delay: 92.432 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 61.90 Mbit/s
95th percentile per-packet one-way delay: 71.485 ms
Loss rate: 0.00%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-06-01 10:32:54

End at: 2018-06-01 10:33:24

Local clock offset: -0.036 ms

Remote clock offset: 0.053 ms

Below is generated by plot.py at 2018-06-01 15:41:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 580.84 Mbit/s

95th percentile per-packet one-way delay: 188.971 ms

Loss rate: 1.68%

-- Flow 1:

Average throughput: 517.33 Mbit/s

95th percentile per-packet one-way delay: 191.152 ms

Loss rate: 1.73%

-- Flow 2:

Average throughput: 64.66 Mbit/s

95th percentile per-packet one-way delay: 174.958 ms

Loss rate: 1.36%

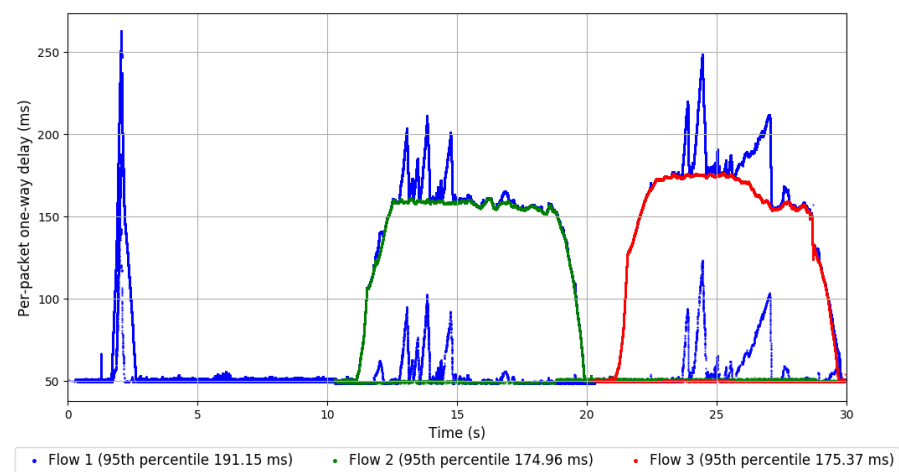
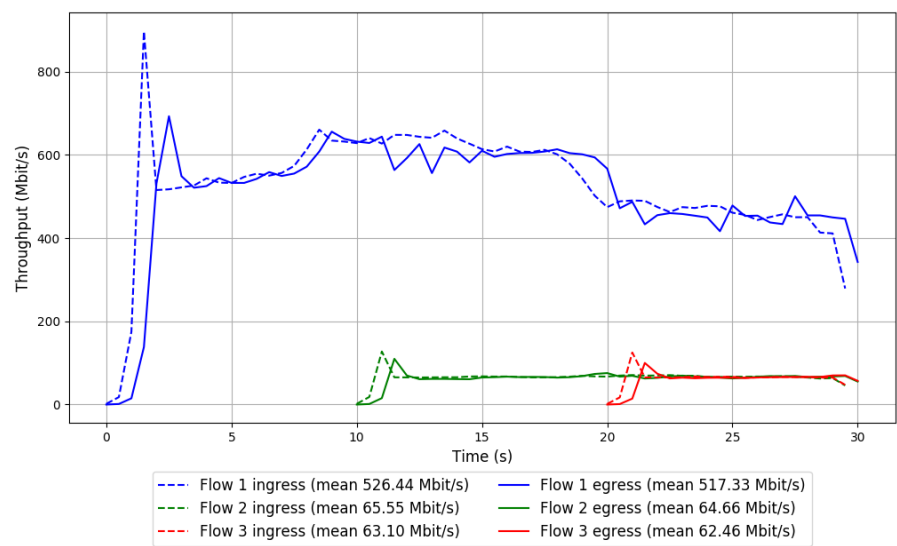
-- Flow 3:

Average throughput: 62.46 Mbit/s

95th percentile per-packet one-way delay: 175.372 ms

Loss rate: 1.01%

Run 2: Report of PCC-Allegro — Data Link

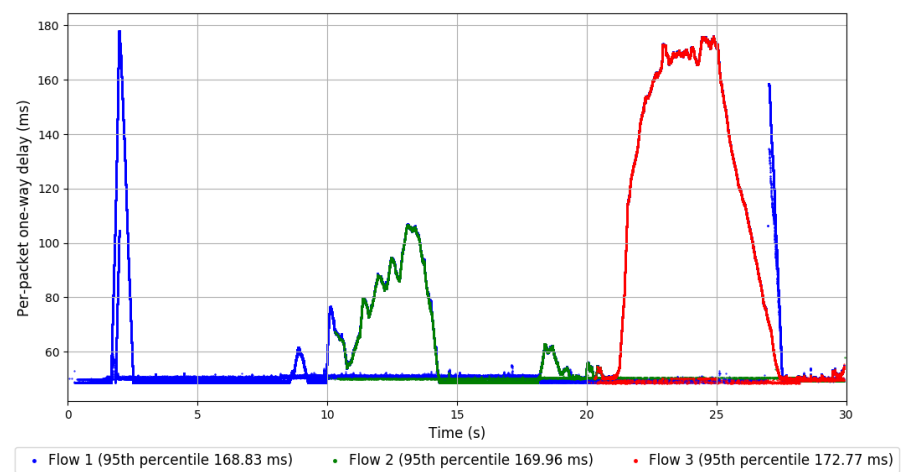
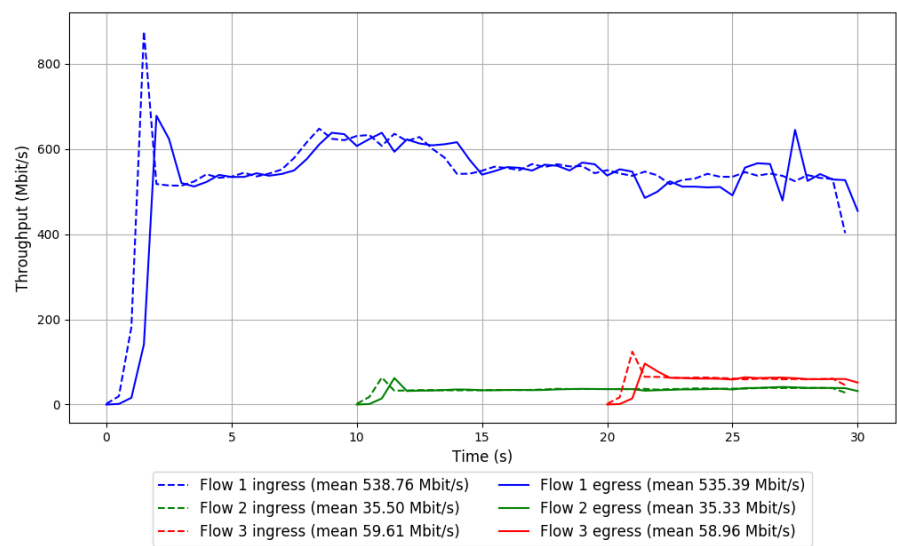


Run 3: Statistics of PCC-Allegro

Start at: 2018-06-01 10:56:26
End at: 2018-06-01 10:56:56
Local clock offset: 0.298 ms
Remote clock offset: -0.001 ms

Below is generated by plot.py at 2018-06-01 15:42:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 578.25 Mbit/s
95th percentile per-packet one-way delay: 169.209 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 535.39 Mbit/s
95th percentile per-packet one-way delay: 168.832 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 35.33 Mbit/s
95th percentile per-packet one-way delay: 169.955 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 58.96 Mbit/s
95th percentile per-packet one-way delay: 172.766 ms
Loss rate: 1.07%

Run 3: Report of PCC-Allegro — Data Link

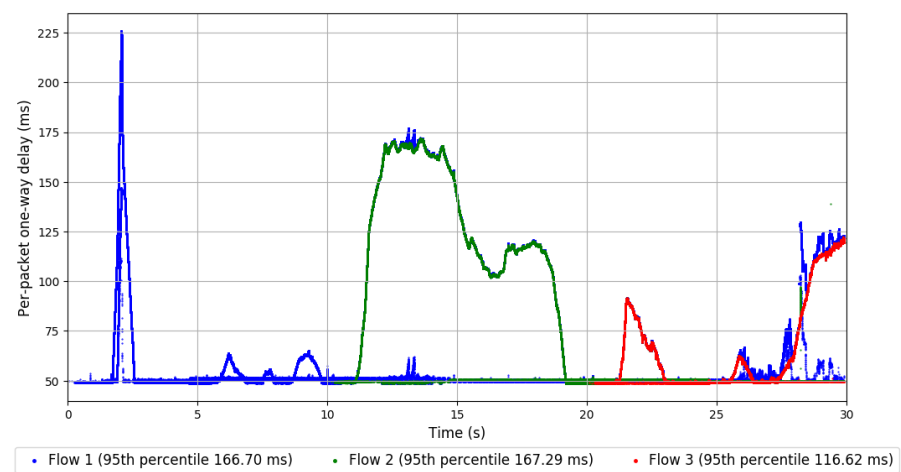
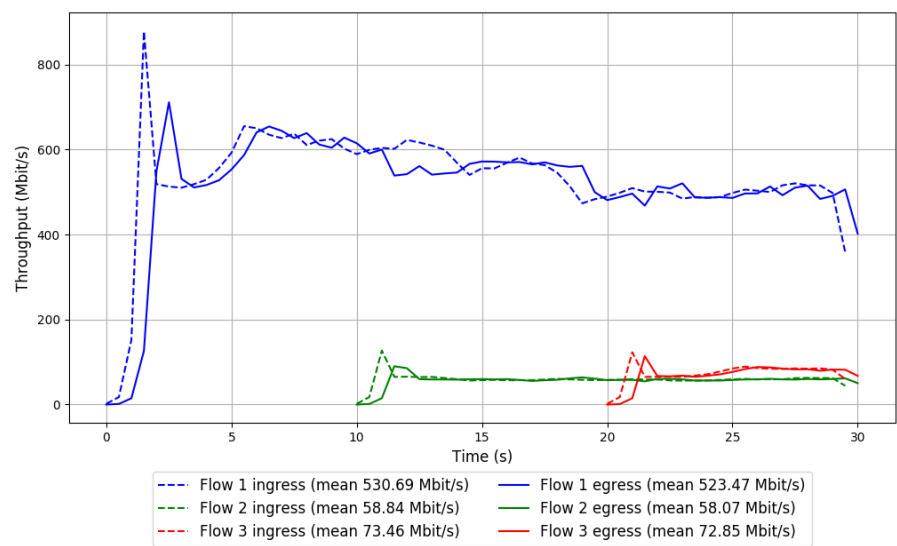


Run 4: Statistics of PCC-Allegro

Start at: 2018-06-01 11:19:40
End at: 2018-06-01 11:20:10
Local clock offset: -0.022 ms
Remote clock offset: -0.087 ms

Below is generated by plot.py at 2018-06-01 15:42:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 586.04 Mbit/s
95th percentile per-packet one-way delay: 166.551 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 523.47 Mbit/s
95th percentile per-packet one-way delay: 166.700 ms
Loss rate: 1.36%
-- Flow 2:
Average throughput: 58.07 Mbit/s
95th percentile per-packet one-way delay: 167.288 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 72.85 Mbit/s
95th percentile per-packet one-way delay: 116.622 ms
Loss rate: 0.80%

Run 4: Report of PCC-Allegro — Data Link

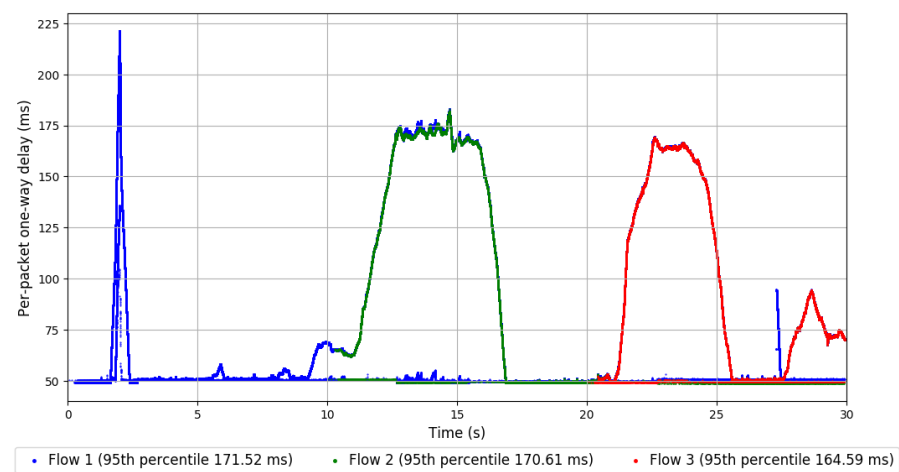
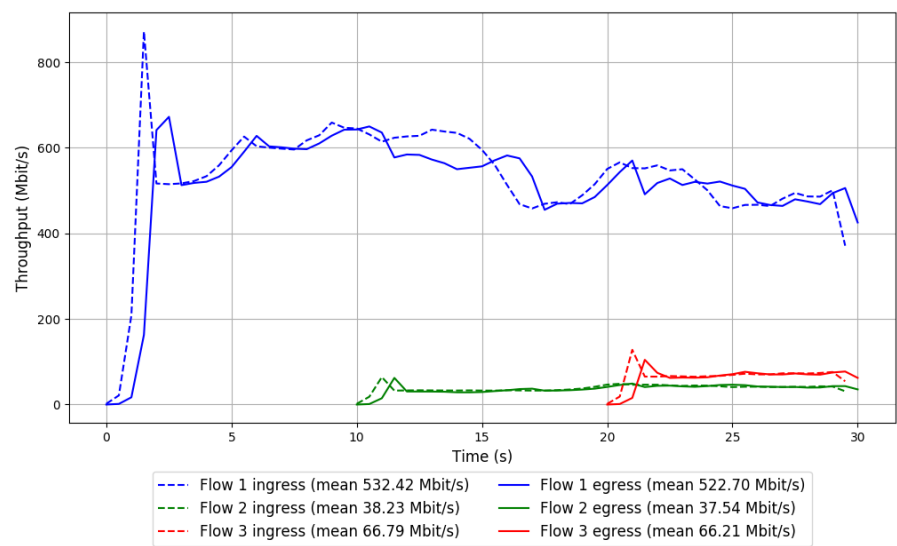


Run 5: Statistics of PCC-Allegro

Start at: 2018-06-01 11:42:52
End at: 2018-06-01 11:43:22
Local clock offset: -0.031 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2018-06-01 15:42:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 569.47 Mbit/s
95th percentile per-packet one-way delay: 171.320 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 522.70 Mbit/s
95th percentile per-packet one-way delay: 171.520 ms
Loss rate: 1.83%
-- Flow 2:
Average throughput: 37.54 Mbit/s
95th percentile per-packet one-way delay: 170.613 ms
Loss rate: 1.81%
-- Flow 3:
Average throughput: 66.21 Mbit/s
95th percentile per-packet one-way delay: 164.590 ms
Loss rate: 0.86%

Run 5: Report of PCC-Allegro — Data Link

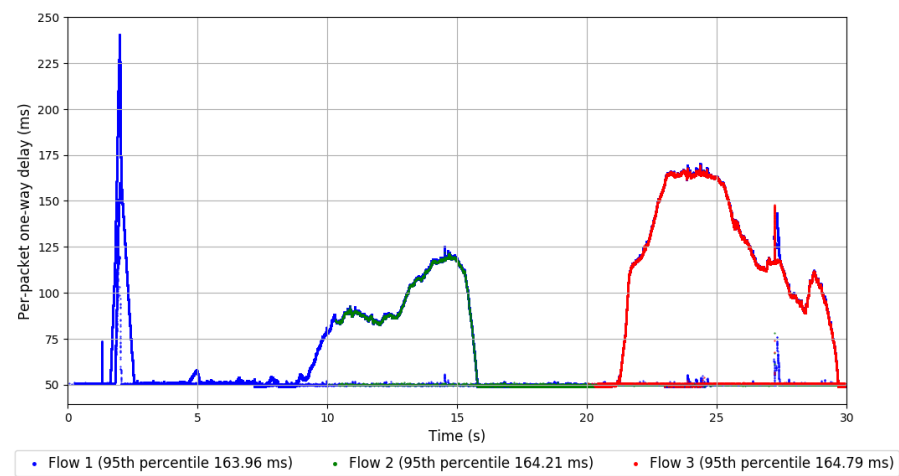
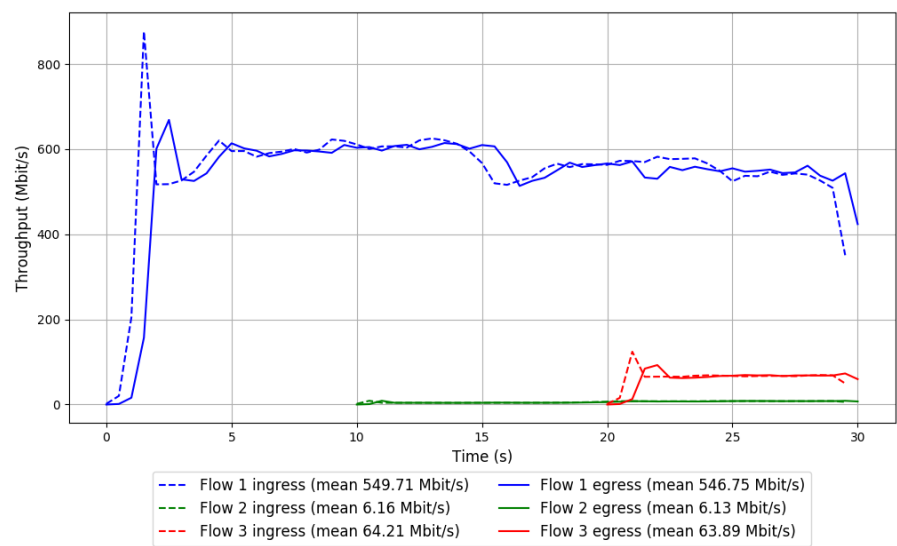


Run 6: Statistics of PCC-Allegro

Start at: 2018-06-01 12:05:57
End at: 2018-06-01 12:06:27
Local clock offset: -0.037 ms
Remote clock offset: -0.019 ms

Below is generated by plot.py at 2018-06-01 15:43:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 571.87 Mbit/s
95th percentile per-packet one-way delay: 164.055 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 546.75 Mbit/s
95th percentile per-packet one-way delay: 163.964 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 6.13 Mbit/s
95th percentile per-packet one-way delay: 164.207 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 63.89 Mbit/s
95th percentile per-packet one-way delay: 164.791 ms
Loss rate: 0.51%

Run 6: Report of PCC-Allegro — Data Link

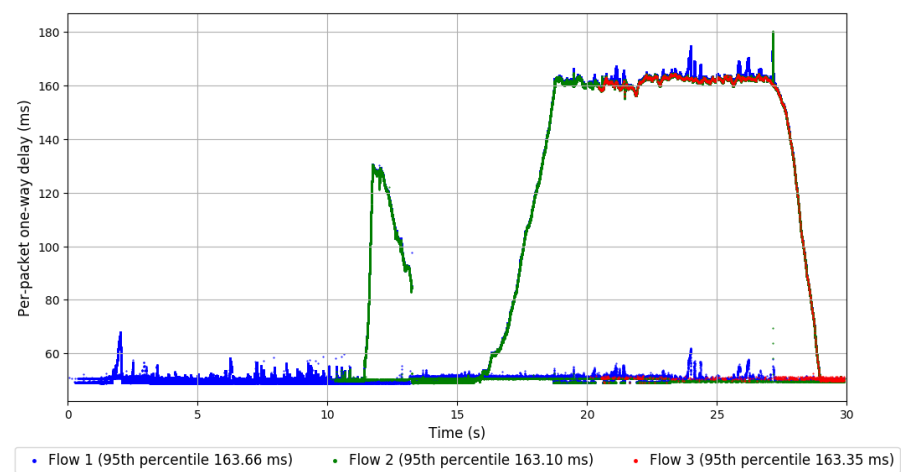
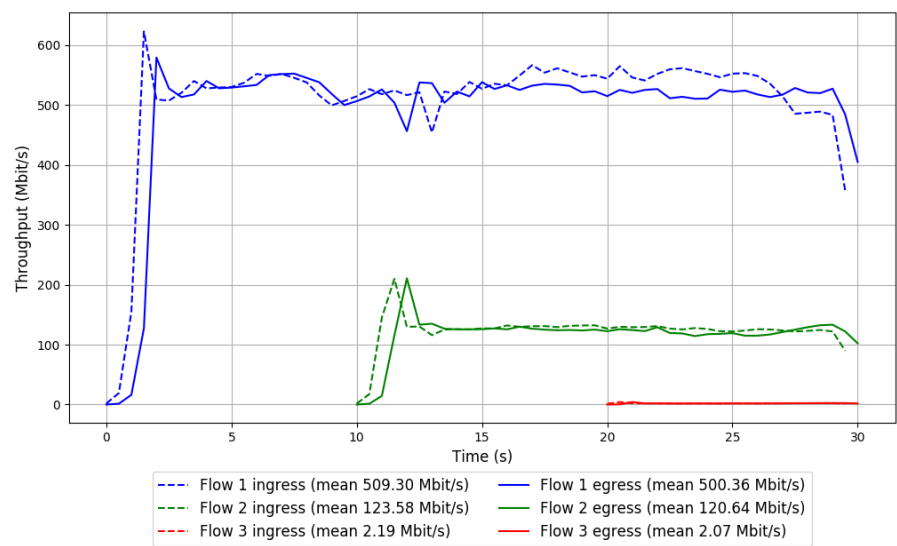


Run 7: Statistics of PCC-Allegro

Start at: 2018-06-01 12:29:11
End at: 2018-06-01 12:29:41
Local clock offset: 0.002 ms
Remote clock offset: 0.0 ms

Below is generated by plot.py at 2018-06-01 15:44:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 581.18 Mbit/s
95th percentile per-packet one-way delay: 163.570 ms
Loss rate: 1.85%
-- Flow 1:
Average throughput: 500.36 Mbit/s
95th percentile per-packet one-way delay: 163.660 ms
Loss rate: 1.76%
-- Flow 2:
Average throughput: 120.64 Mbit/s
95th percentile per-packet one-way delay: 163.105 ms
Loss rate: 2.38%
-- Flow 3:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 163.349 ms
Loss rate: 5.55%

Run 7: Report of PCC-Allegro — Data Link

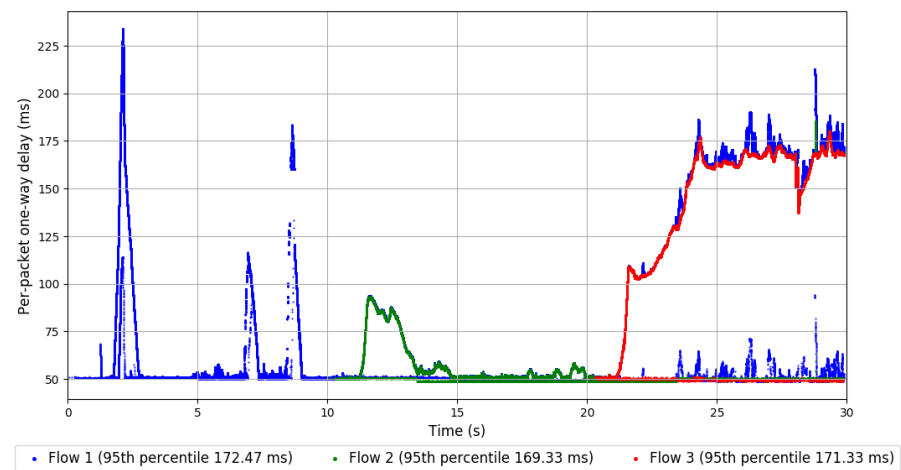
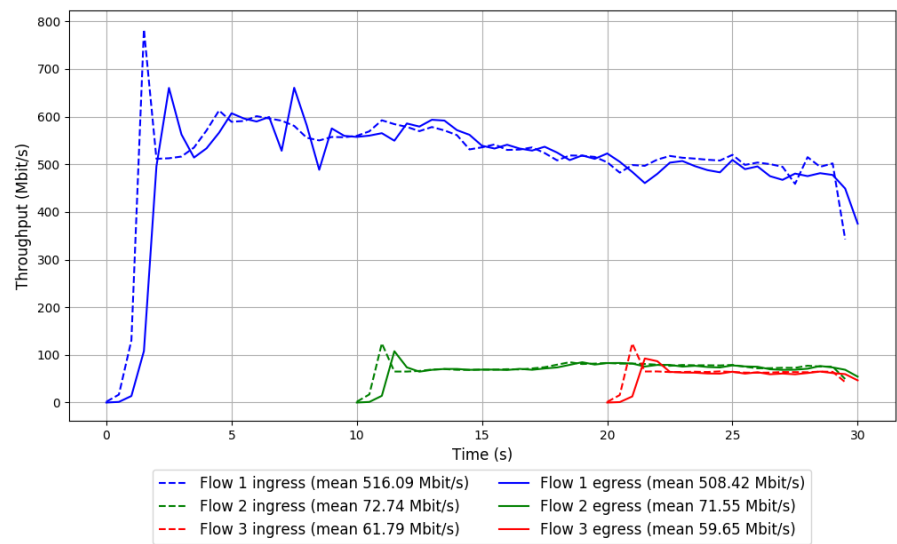


Run 8: Statistics of PCC-Allegro

Start at: 2018-06-01 12:52:20
End at: 2018-06-01 12:52:50
Local clock offset: 1.35 ms
Remote clock offset: -0.073 ms

Below is generated by plot.py at 2018-06-01 15:45:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 575.52 Mbit/s
95th percentile per-packet one-way delay: 172.018 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 508.42 Mbit/s
95th percentile per-packet one-way delay: 172.467 ms
Loss rate: 1.49%
-- Flow 2:
Average throughput: 71.55 Mbit/s
95th percentile per-packet one-way delay: 169.326 ms
Loss rate: 1.63%
-- Flow 3:
Average throughput: 59.65 Mbit/s
95th percentile per-packet one-way delay: 171.333 ms
Loss rate: 3.46%

Run 8: Report of PCC-Allegro — Data Link

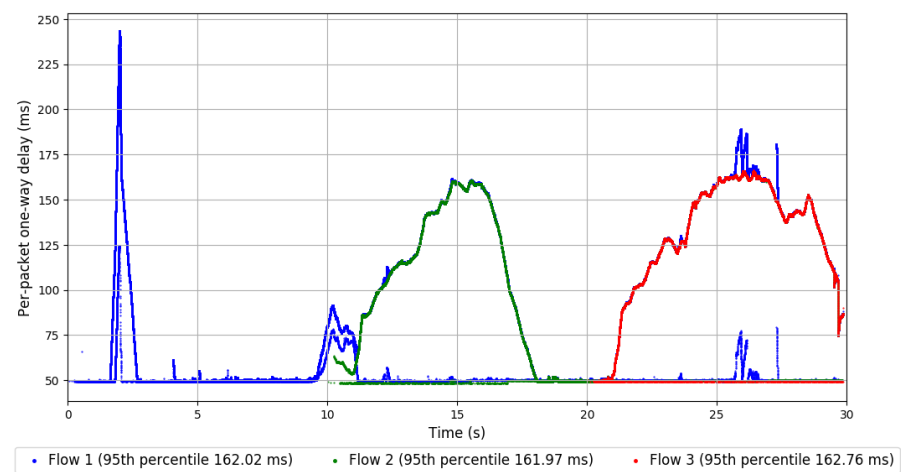
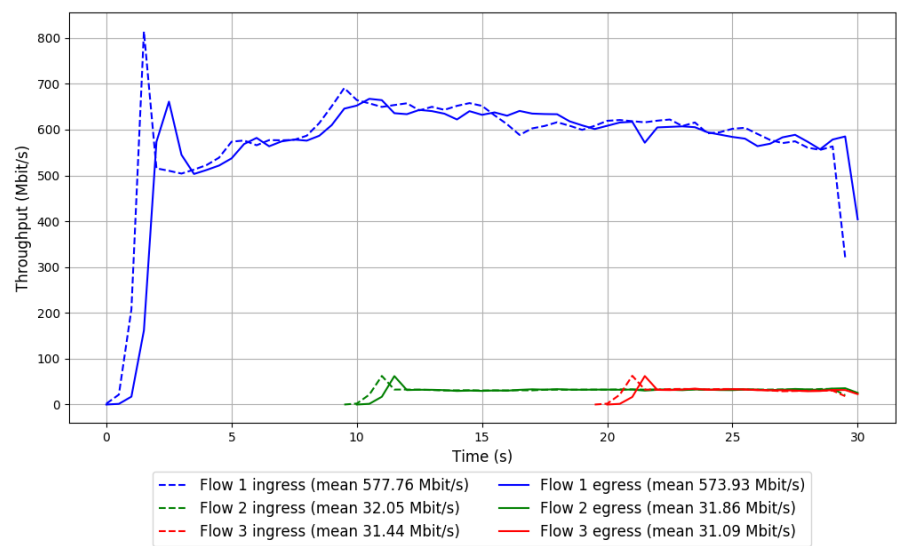


Run 9: Statistics of PCC-Allegro

Start at: 2018-06-01 13:15:08
End at: 2018-06-01 13:15:38
Local clock offset: 1.267 ms
Remote clock offset: -0.073 ms

Below is generated by plot.py at 2018-06-01 15:50:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 605.33 Mbit/s
95th percentile per-packet one-way delay: 162.078 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 573.93 Mbit/s
95th percentile per-packet one-way delay: 162.021 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 31.86 Mbit/s
95th percentile per-packet one-way delay: 161.971 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 31.09 Mbit/s
95th percentile per-packet one-way delay: 162.763 ms
Loss rate: 1.08%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-06-01 13:38:10

End at: 2018-06-01 13:38:40

Local clock offset: 0.662 ms

Remote clock offset: -0.06 ms

Below is generated by plot.py at 2018-06-01 15:51:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 568.09 Mbit/s

95th percentile per-packet one-way delay: 149.672 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 526.77 Mbit/s

95th percentile per-packet one-way delay: 148.808 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 33.63 Mbit/s

95th percentile per-packet one-way delay: 149.397 ms

Loss rate: 0.02%

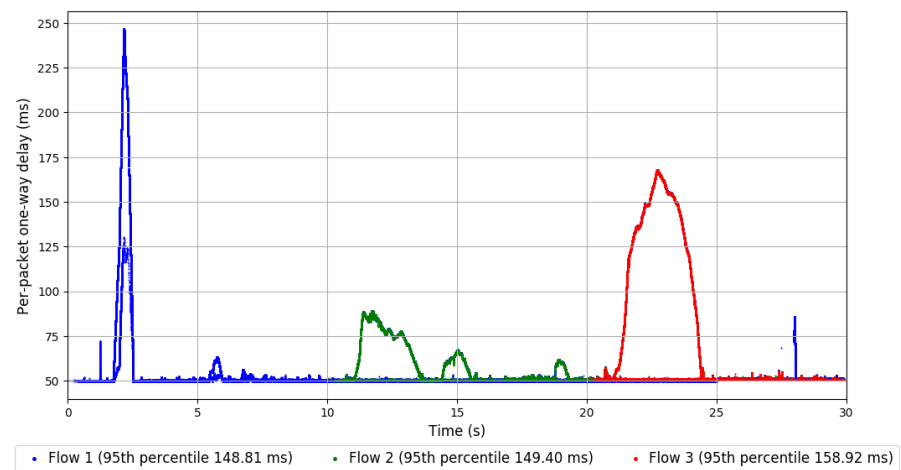
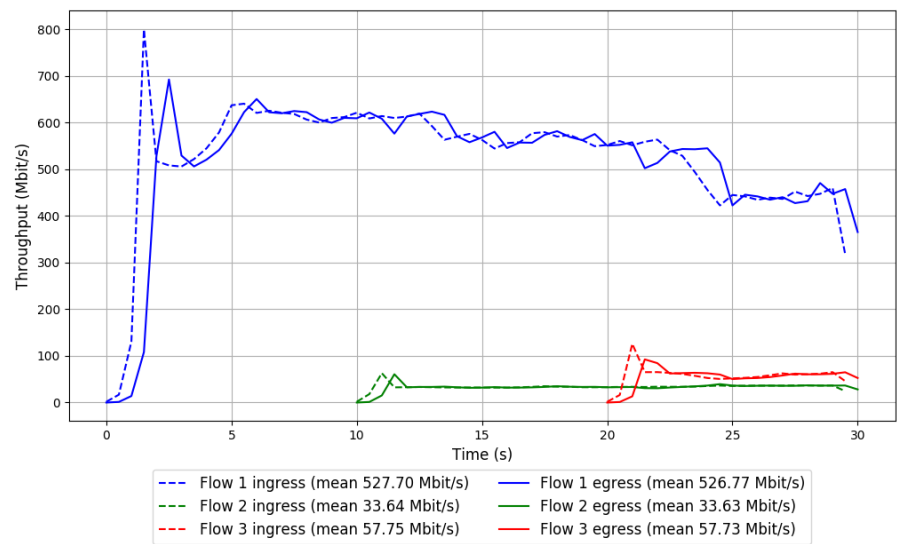
-- Flow 3:

Average throughput: 57.73 Mbit/s

95th percentile per-packet one-way delay: 158.920 ms

Loss rate: 0.06%

Run 10: Report of PCC-Allegro — Data Link

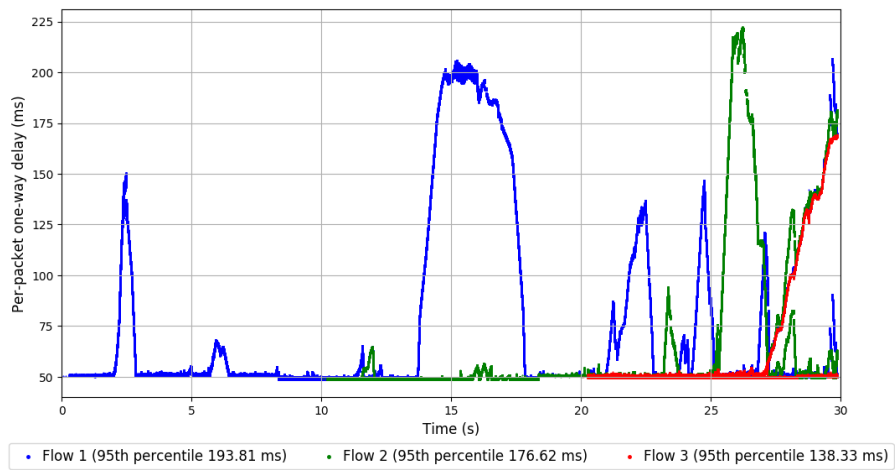
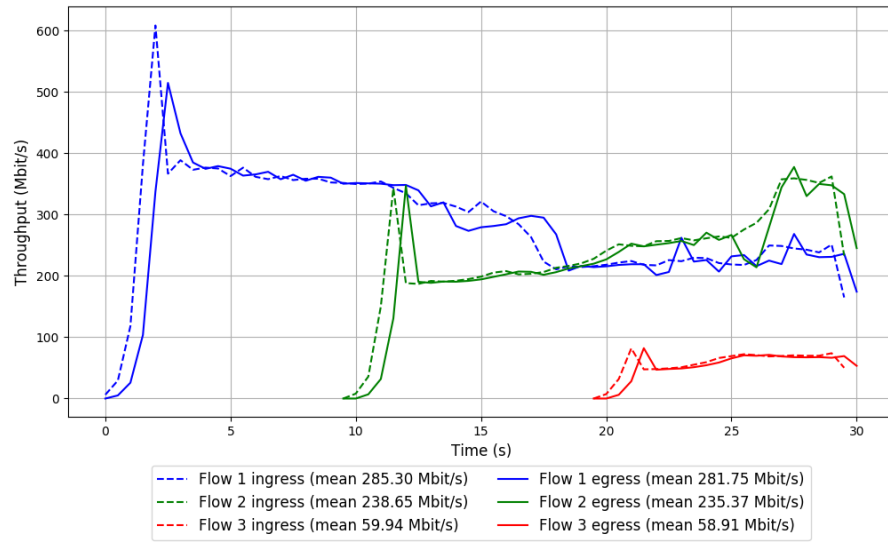


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-01 10:25:56
End at: 2018-06-01 10:26:26
Local clock offset: -0.057 ms
Remote clock offset: 0.05 ms

# Below is generated by plot.py at 2018-06-01 15:58:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 458.19 Mbit/s
95th percentile per-packet one-way delay: 187.483 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 281.75 Mbit/s
95th percentile per-packet one-way delay: 193.813 ms
Loss rate: 1.24%
-- Flow 2:
Average throughput: 235.37 Mbit/s
95th percentile per-packet one-way delay: 176.616 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 58.91 Mbit/s
95th percentile per-packet one-way delay: 138.332 ms
Loss rate: 1.71%
```

Run 1: Report of PCC-Expr — Data Link

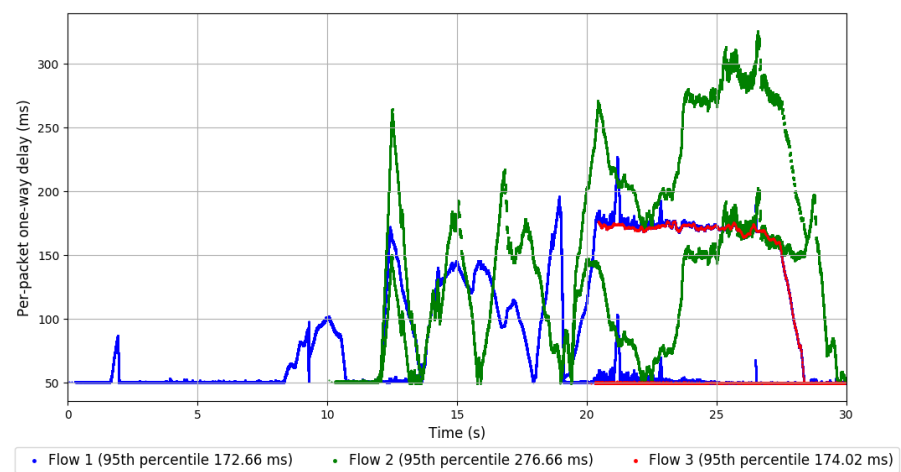
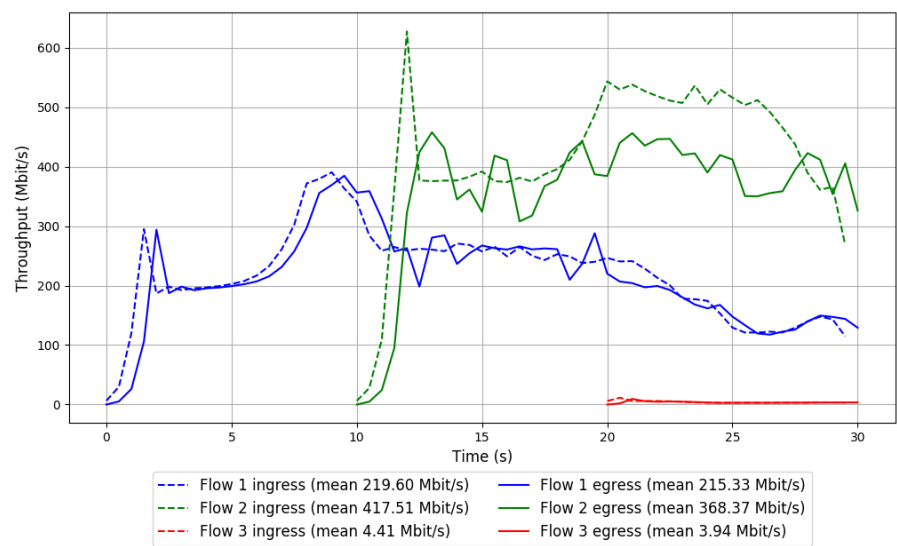


```
Run 2: Statistics of PCC-Expr

Start at: 2018-06-01 10:49:30
End at: 2018-06-01 10:50:00
Local clock offset: -0.107 ms
Remote clock offset: 0.058 ms

# Below is generated by plot.py at 2018-06-01 15:59:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 461.62 Mbit/s
95th percentile per-packet one-way delay: 266.287 ms
Loss rate: 7.45%
-- Flow 1:
Average throughput: 215.33 Mbit/s
95th percentile per-packet one-way delay: 172.662 ms
Loss rate: 1.95%
-- Flow 2:
Average throughput: 368.37 Mbit/s
95th percentile per-packet one-way delay: 276.656 ms
Loss rate: 11.78%
-- Flow 3:
Average throughput: 3.94 Mbit/s
95th percentile per-packet one-way delay: 174.020 ms
Loss rate: 10.64%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-06-01 11:12:37

End at: 2018-06-01 11:13:07

Local clock offset: 0.001 ms

Remote clock offset: -0.01 ms

Below is generated by plot.py at 2018-06-01 15:59:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 447.65 Mbit/s

95th percentile per-packet one-way delay: 188.100 ms

Loss rate: 1.68%

-- Flow 1:

Average throughput: 228.44 Mbit/s

95th percentile per-packet one-way delay: 183.272 ms

Loss rate: 2.17%

-- Flow 2:

Average throughput: 234.87 Mbit/s

95th percentile per-packet one-way delay: 199.549 ms

Loss rate: 1.62%

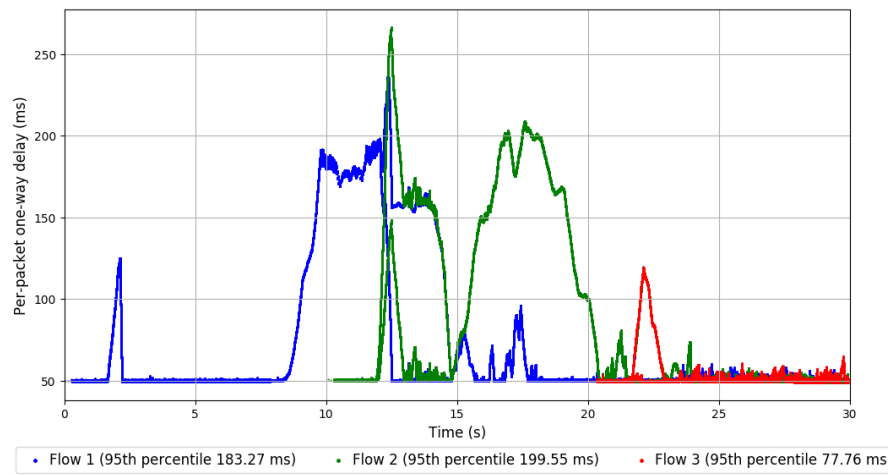
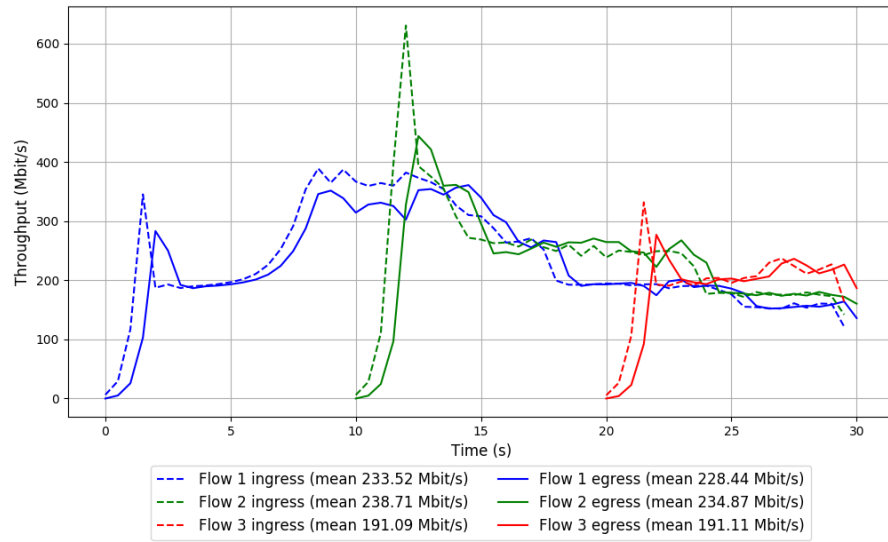
-- Flow 3:

Average throughput: 191.11 Mbit/s

95th percentile per-packet one-way delay: 77.757 ms

Loss rate: 0.00%

Run 3: Report of PCC-Expr — Data Link

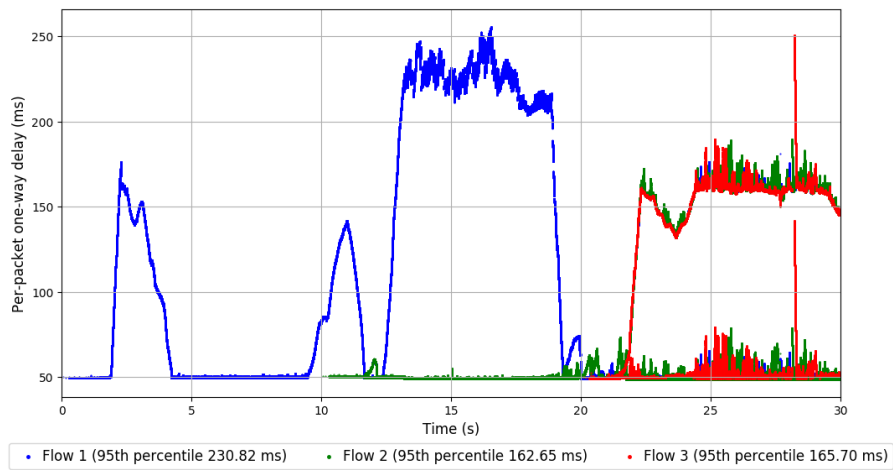
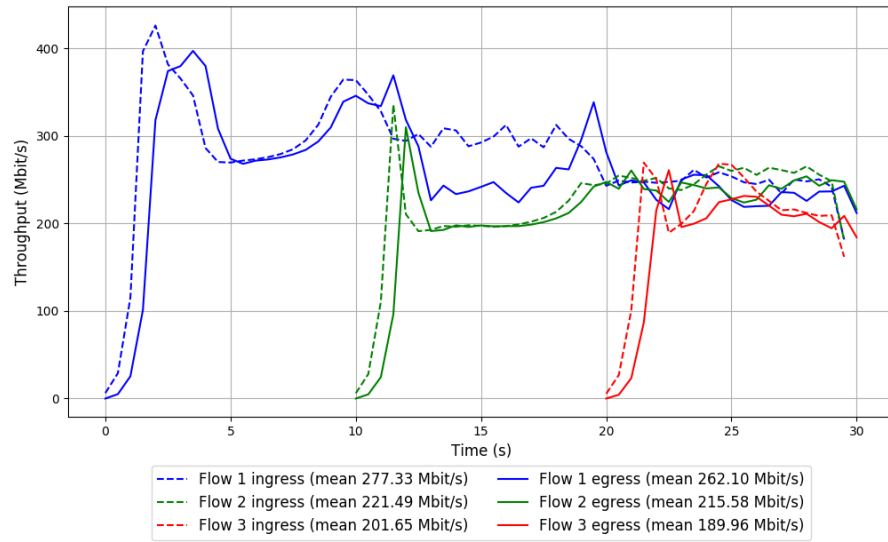


Run 4: Statistics of PCC-Expr

Start at: 2018-06-01 11:35:51
End at: 2018-06-01 11:36:21
Local clock offset: -0.023 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2018-06-01 16:00:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 468.13 Mbit/s
95th percentile per-packet one-way delay: 225.166 ms
Loss rate: 4.69%
-- Flow 1:
Average throughput: 262.10 Mbit/s
95th percentile per-packet one-way delay: 230.816 ms
Loss rate: 5.49%
-- Flow 2:
Average throughput: 215.58 Mbit/s
95th percentile per-packet one-way delay: 162.653 ms
Loss rate: 2.68%
-- Flow 3:
Average throughput: 189.96 Mbit/s
95th percentile per-packet one-way delay: 165.700 ms
Loss rate: 5.79%

Run 4: Report of PCC-Expr — Data Link

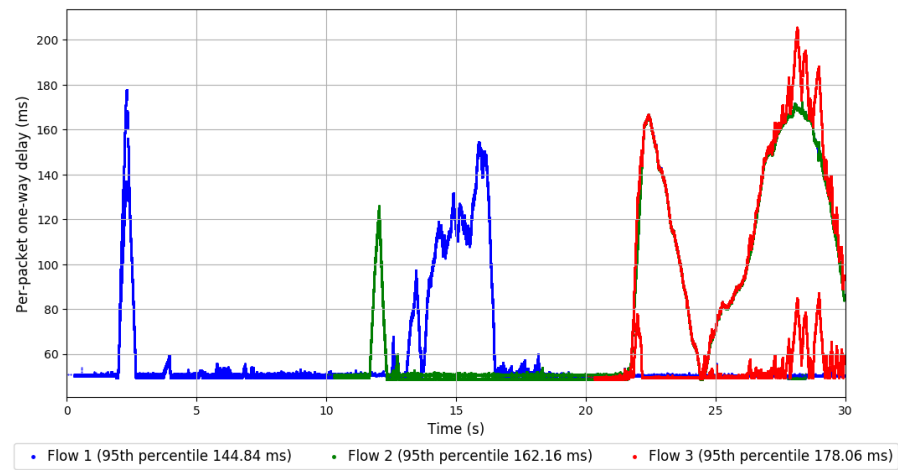
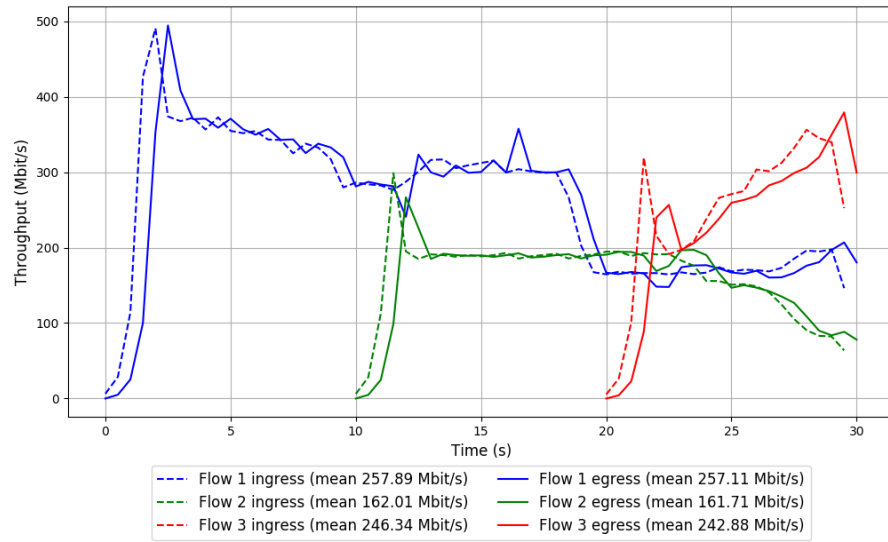


Run 5: Statistics of PCC-Expr

Start at: 2018-06-01 11:59:03
End at: 2018-06-01 11:59:33
Local clock offset: 0.009 ms
Remote clock offset: -0.078 ms

Below is generated by plot.py at 2018-06-01 16:01:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 444.76 Mbit/s
95th percentile per-packet one-way delay: 160.168 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 257.11 Mbit/s
95th percentile per-packet one-way delay: 144.839 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 161.71 Mbit/s
95th percentile per-packet one-way delay: 162.164 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 242.88 Mbit/s
95th percentile per-packet one-way delay: 178.060 ms
Loss rate: 1.41%

Run 5: Report of PCC-Expr — Data Link

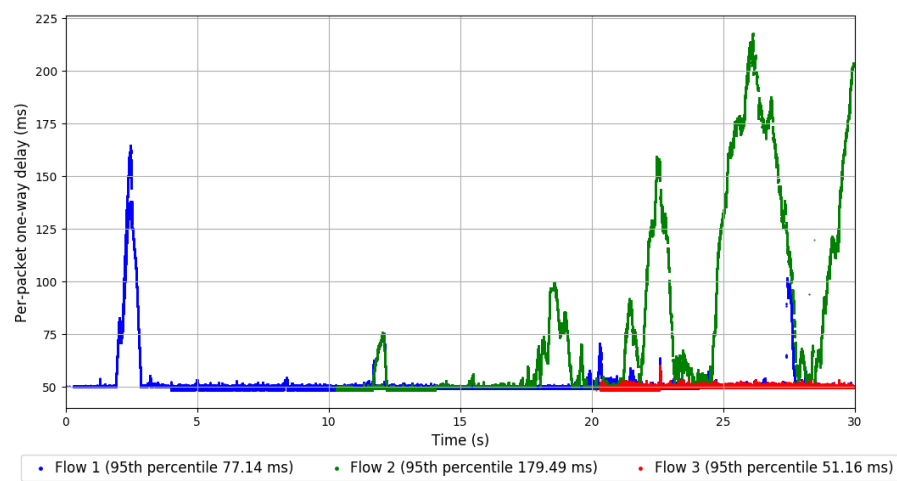
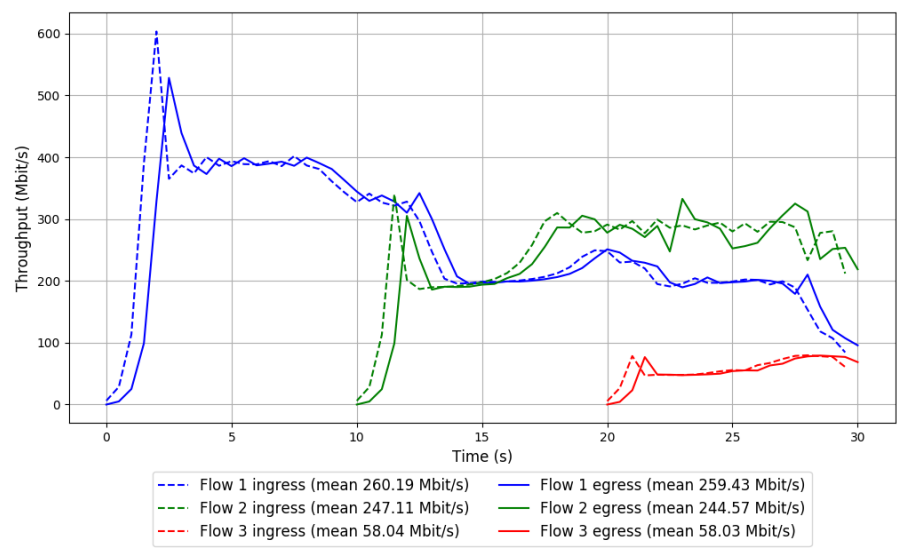


Run 6: Statistics of PCC-Expr

Start at: 2018-06-01 12:22:11
End at: 2018-06-01 12:22:41
Local clock offset: 0.409 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2018-06-01 16:02:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 441.23 Mbit/s
95th percentile per-packet one-way delay: 156.484 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 259.43 Mbit/s
95th percentile per-packet one-way delay: 77.140 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 244.57 Mbit/s
95th percentile per-packet one-way delay: 179.487 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 58.03 Mbit/s
95th percentile per-packet one-way delay: 51.165 ms
Loss rate: 0.00%

Run 6: Report of PCC-Expr — Data Link

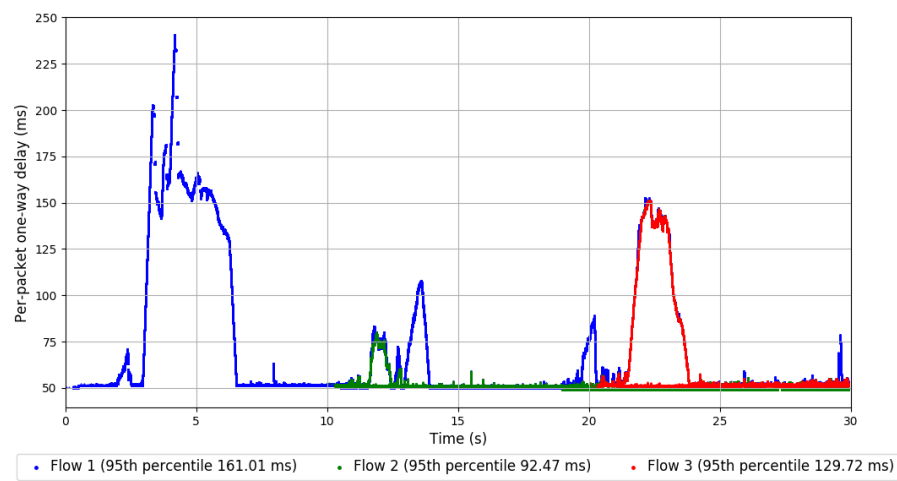
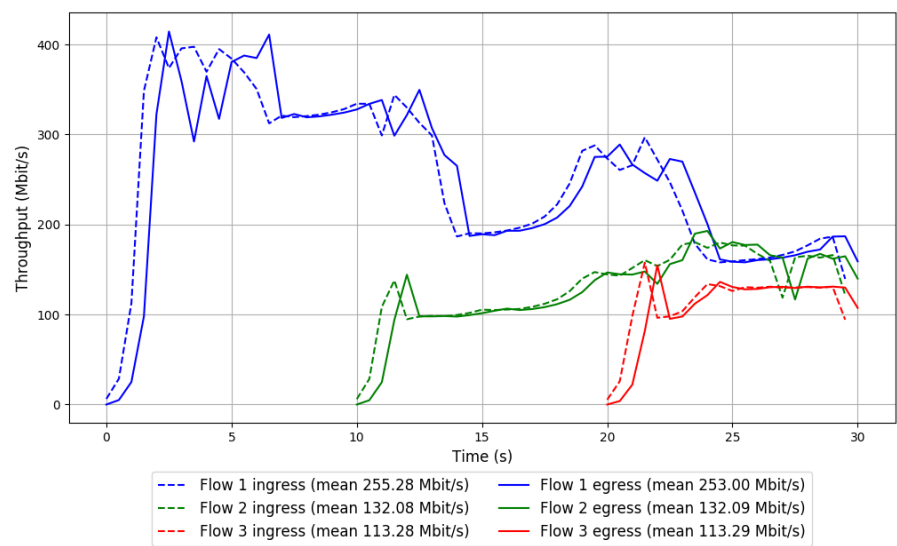


Run 7: Statistics of PCC-Expr

Start at: 2018-06-01 12:45:34
End at: 2018-06-01 12:46:04
Local clock offset: 0.545 ms
Remote clock offset: -0.065 ms

Below is generated by plot.py at 2018-06-01 16:06:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 378.18 Mbit/s
95th percentile per-packet one-way delay: 156.771 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 253.00 Mbit/s
95th percentile per-packet one-way delay: 161.015 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 132.09 Mbit/s
95th percentile per-packet one-way delay: 92.465 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 113.29 Mbit/s
95th percentile per-packet one-way delay: 129.715 ms
Loss rate: 0.00%

Run 7: Report of PCC-Expr — Data Link

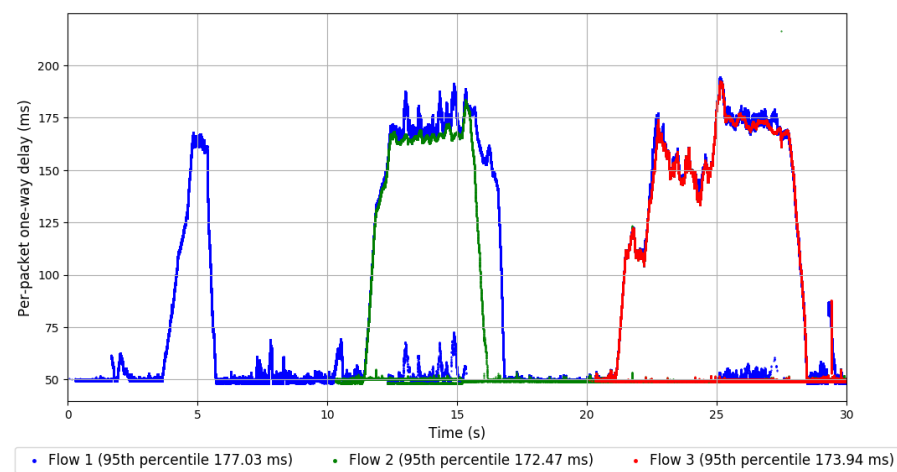
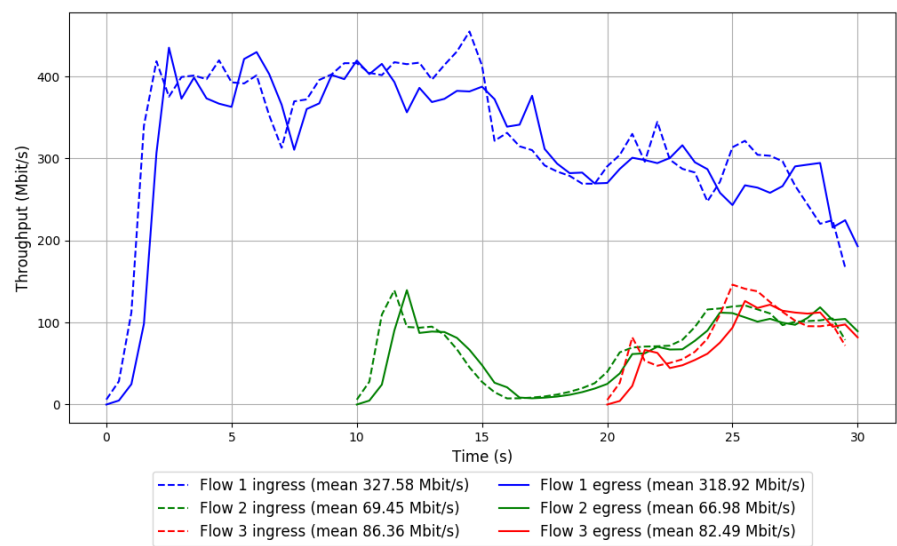


Run 8: Statistics of PCC-Expr

Start at: 2018-06-01 13:08:29
End at: 2018-06-01 13:08:59
Local clock offset: 1.898 ms
Remote clock offset: -0.069 ms

Below is generated by plot.py at 2018-06-01 16:08:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 390.63 Mbit/s
95th percentile per-packet one-way delay: 176.384 ms
Loss rate: 2.88%
-- Flow 1:
Average throughput: 318.92 Mbit/s
95th percentile per-packet one-way delay: 177.030 ms
Loss rate: 2.65%
-- Flow 2:
Average throughput: 66.98 Mbit/s
95th percentile per-packet one-way delay: 172.474 ms
Loss rate: 3.56%
-- Flow 3:
Average throughput: 82.49 Mbit/s
95th percentile per-packet one-way delay: 173.935 ms
Loss rate: 4.49%

Run 8: Report of PCC-Expr — Data Link

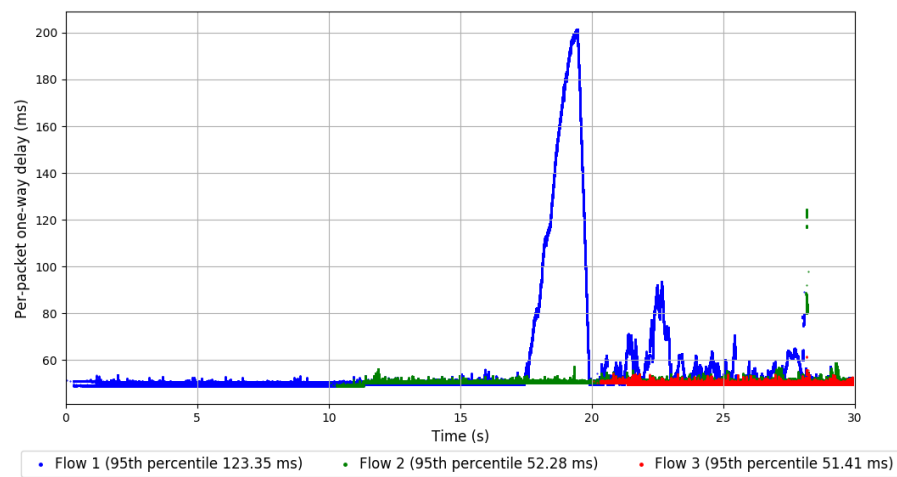
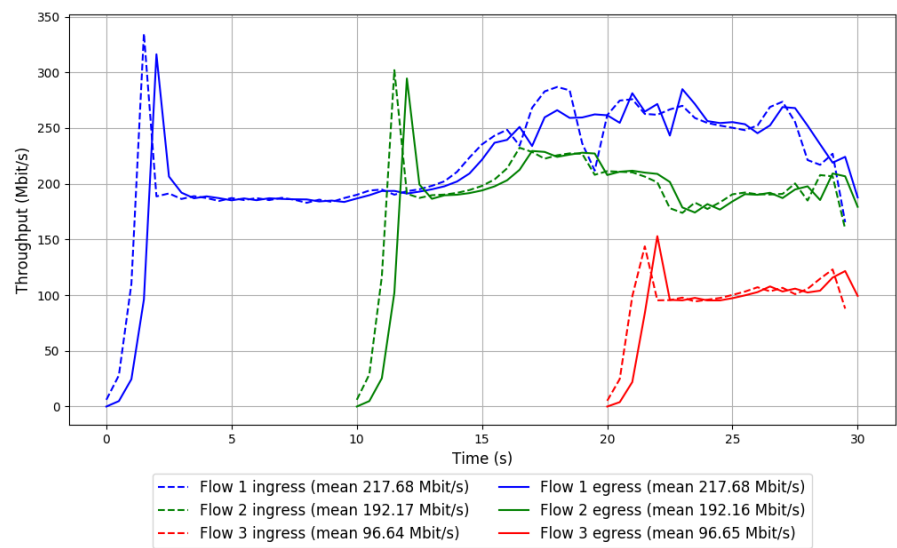


Run 9: Statistics of PCC-Expr

Start at: 2018-06-01 13:31:23
End at: 2018-06-01 13:31:53
Local clock offset: 0.643 ms
Remote clock offset: -0.062 ms

Below is generated by plot.py at 2018-06-01 16:13:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 377.29 Mbit/s
95th percentile per-packet one-way delay: 81.817 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 217.68 Mbit/s
95th percentile per-packet one-way delay: 123.351 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 192.16 Mbit/s
95th percentile per-packet one-way delay: 52.283 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 96.65 Mbit/s
95th percentile per-packet one-way delay: 51.405 ms
Loss rate: 0.00%

Run 9: Report of PCC-Expr — Data Link

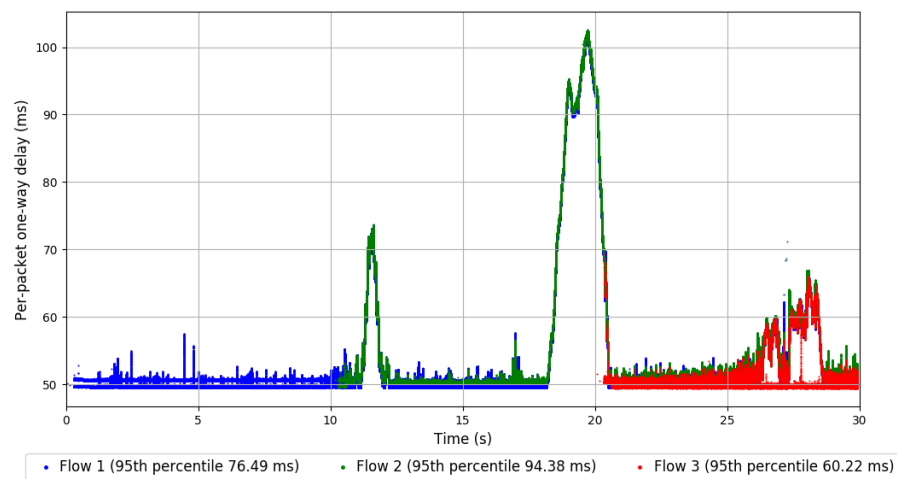
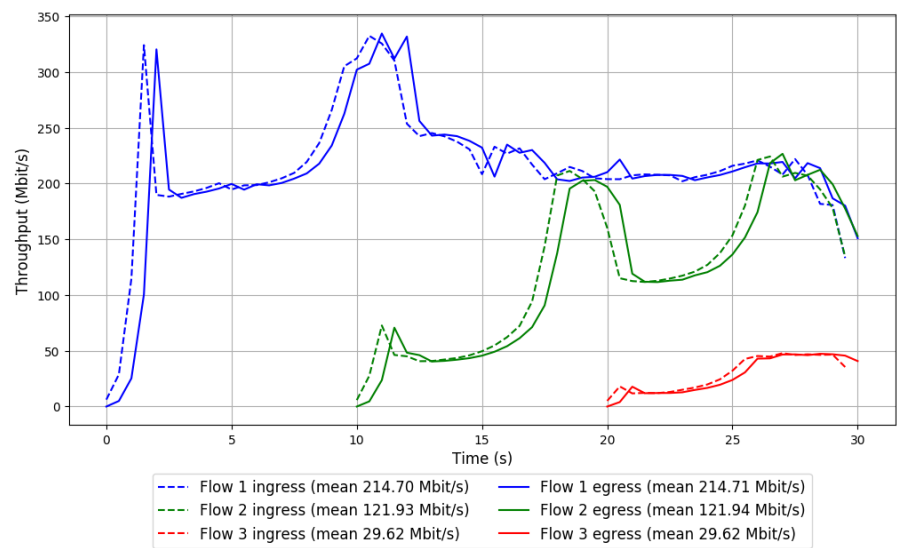


Run 10: Statistics of PCC-Expr

Start at: 2018-06-01 13:54:24
End at: 2018-06-01 13:54:54
Local clock offset: 1.041 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2018-06-01 16:13:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 305.52 Mbit/s
95th percentile per-packet one-way delay: 90.669 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 214.71 Mbit/s
95th percentile per-packet one-way delay: 76.486 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 121.94 Mbit/s
95th percentile per-packet one-way delay: 94.378 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.62 Mbit/s
95th percentile per-packet one-way delay: 60.221 ms
Loss rate: 0.01%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-06-01 10:21:18

End at: 2018-06-01 10:21:48

Local clock offset: 0.037 ms

Remote clock offset: 0.02 ms

Below is generated by plot.py at 2018-06-01 16:13:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 36.88 Mbit/s

95th percentile per-packet one-way delay: 50.525 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.553 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.79 Mbit/s

95th percentile per-packet one-way delay: 50.533 ms

Loss rate: 0.00%

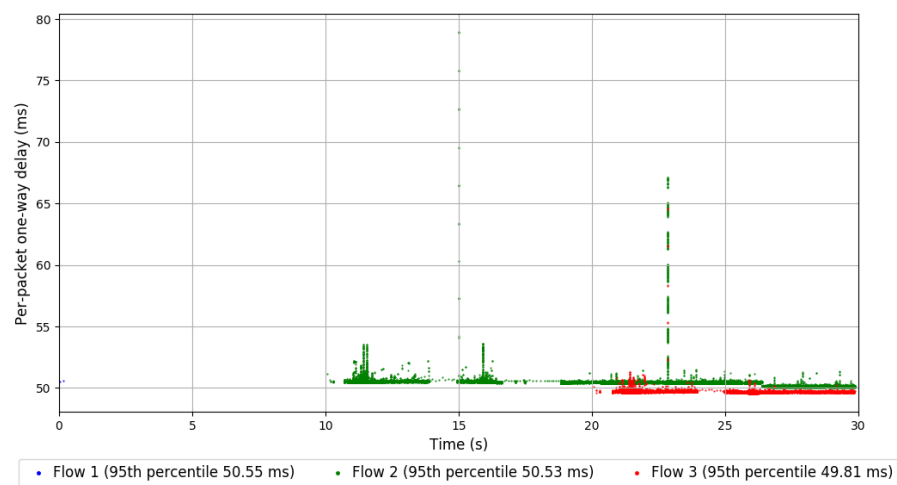
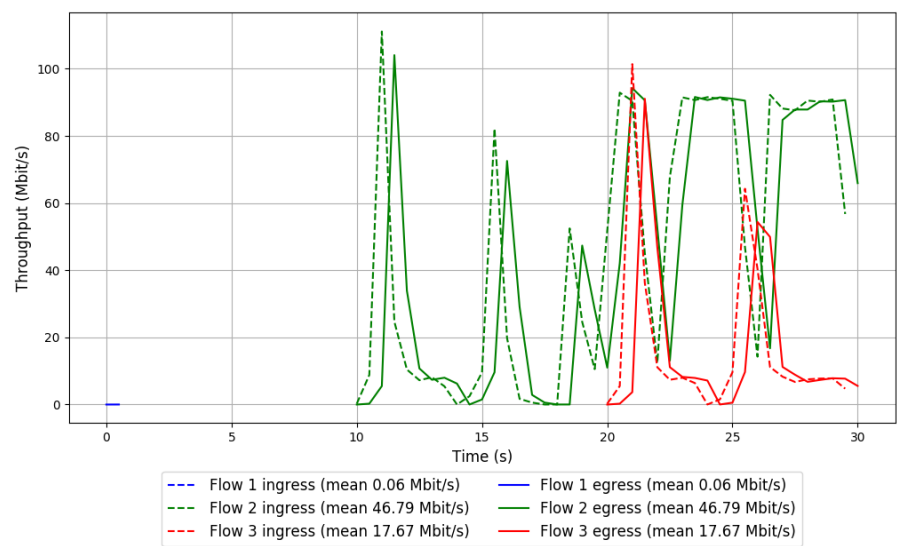
-- Flow 3:

Average throughput: 17.67 Mbit/s

95th percentile per-packet one-way delay: 49.807 ms

Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-06-01 10:44:50

End at: 2018-06-01 10:45:20

Local clock offset: 0.007 ms

Remote clock offset: 0.047 ms

Below is generated by plot.py at 2018-06-01 16:13:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.94 Mbit/s

95th percentile per-packet one-way delay: 50.519 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 50.98 Mbit/s

95th percentile per-packet one-way delay: 50.480 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.70 Mbit/s

95th percentile per-packet one-way delay: 50.513 ms

Loss rate: 0.00%

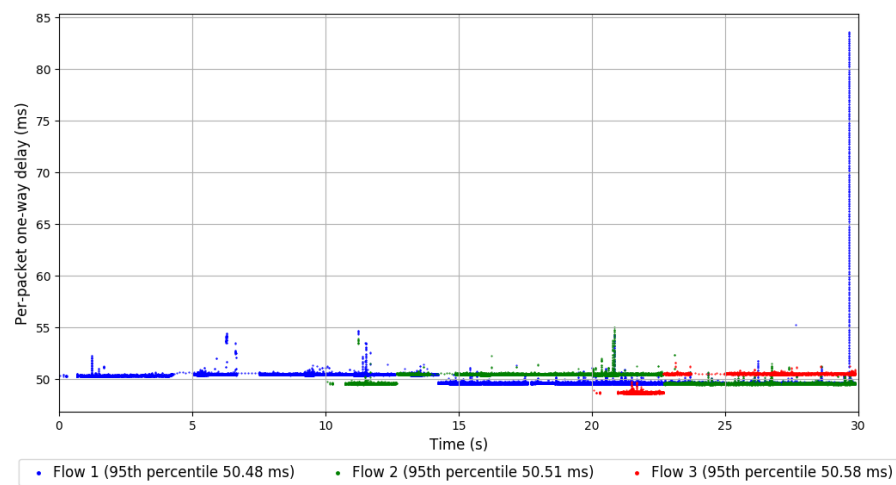
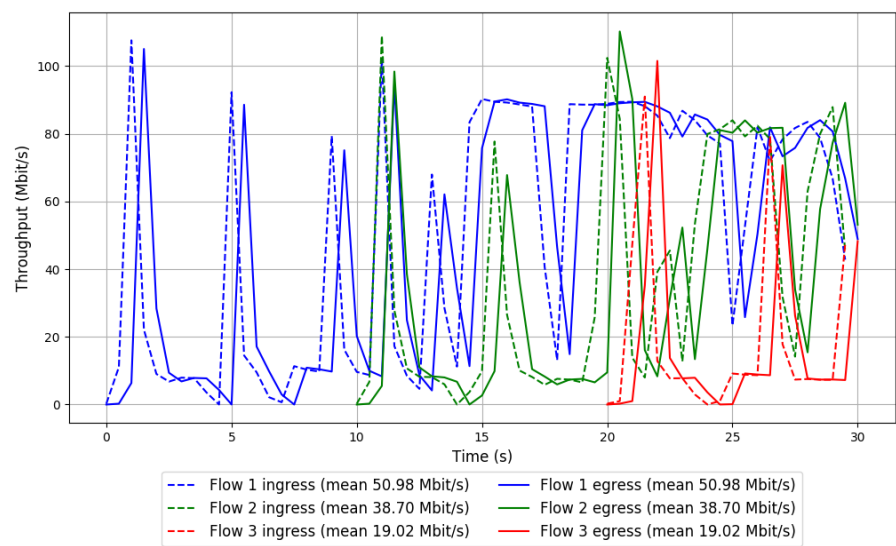
-- Flow 3:

Average throughput: 19.02 Mbit/s

95th percentile per-packet one-way delay: 50.584 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link

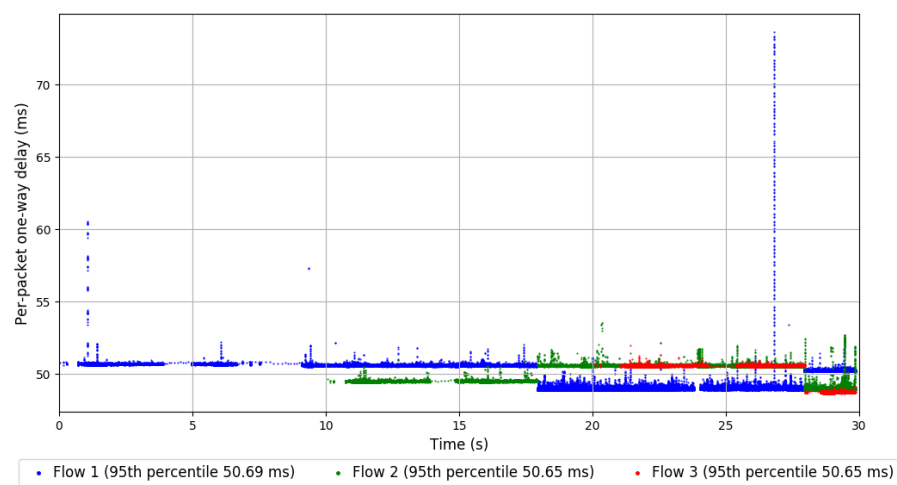
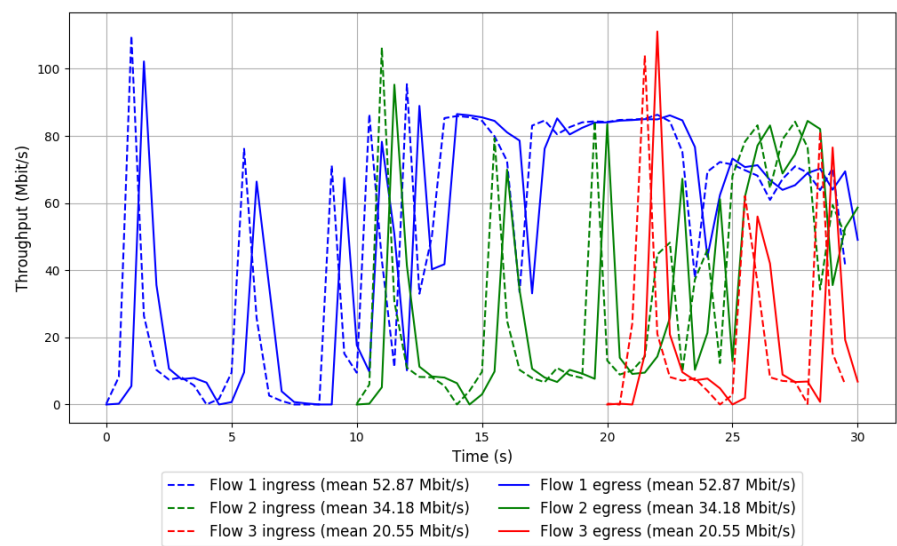


Run 3: Statistics of QUIC Cubic

Start at: 2018-06-01 11:07:57
End at: 2018-06-01 11:08:27
Local clock offset: -0.014 ms
Remote clock offset: -0.057 ms

Below is generated by plot.py at 2018-06-01 16:13:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.33 Mbit/s
95th percentile per-packet one-way delay: 50.677 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 52.87 Mbit/s
95th percentile per-packet one-way delay: 50.688 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 34.18 Mbit/s
95th percentile per-packet one-way delay: 50.646 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.55 Mbit/s
95th percentile per-packet one-way delay: 50.650 ms
Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link

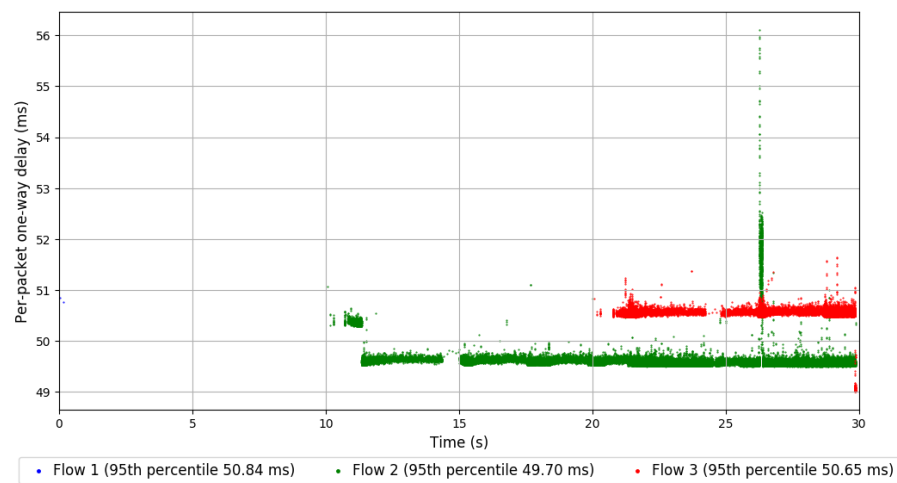
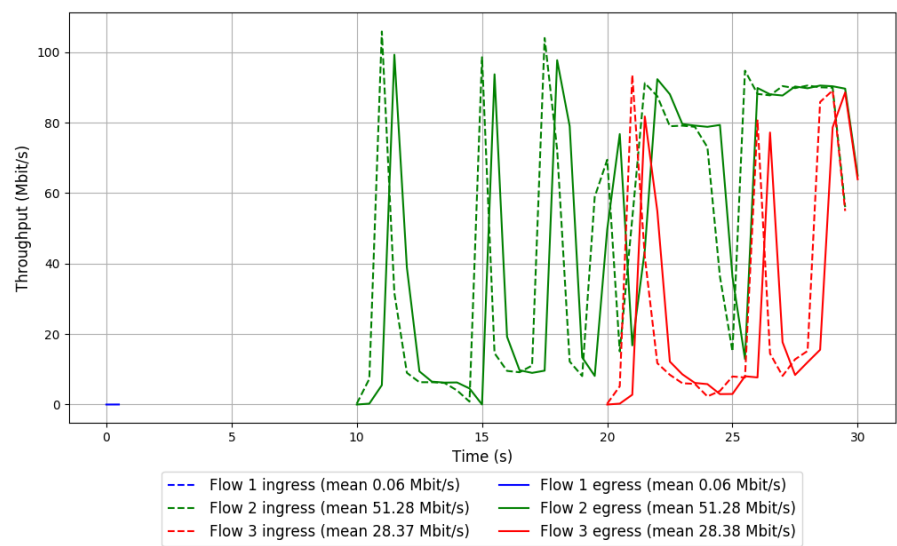


Run 4: Statistics of QUIC Cubic

Start at: 2018-06-01 11:31:13
End at: 2018-06-01 11:31:43
Local clock offset: -0.046 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-06-01 16:13:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 43.39 Mbit/s
95th percentile per-packet one-way delay: 50.596 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 50.841 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 51.28 Mbit/s
95th percentile per-packet one-way delay: 49.704 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 28.38 Mbit/s
95th percentile per-packet one-way delay: 50.650 ms
Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link

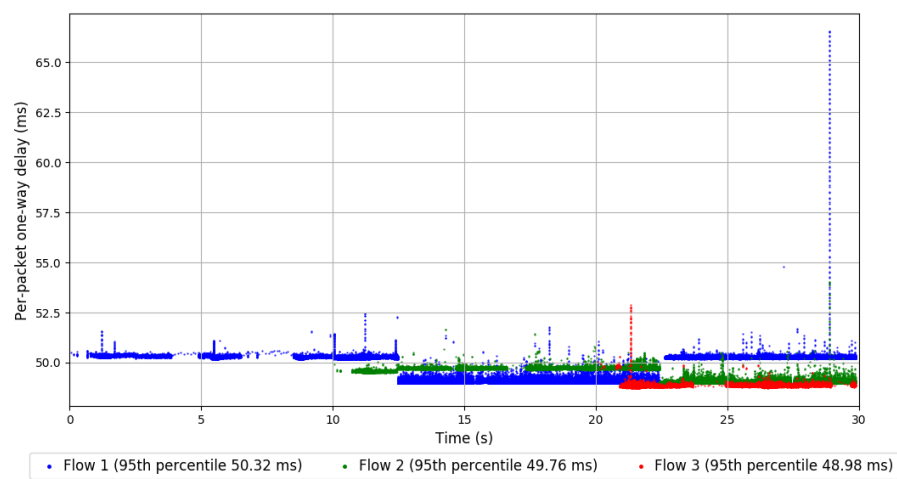
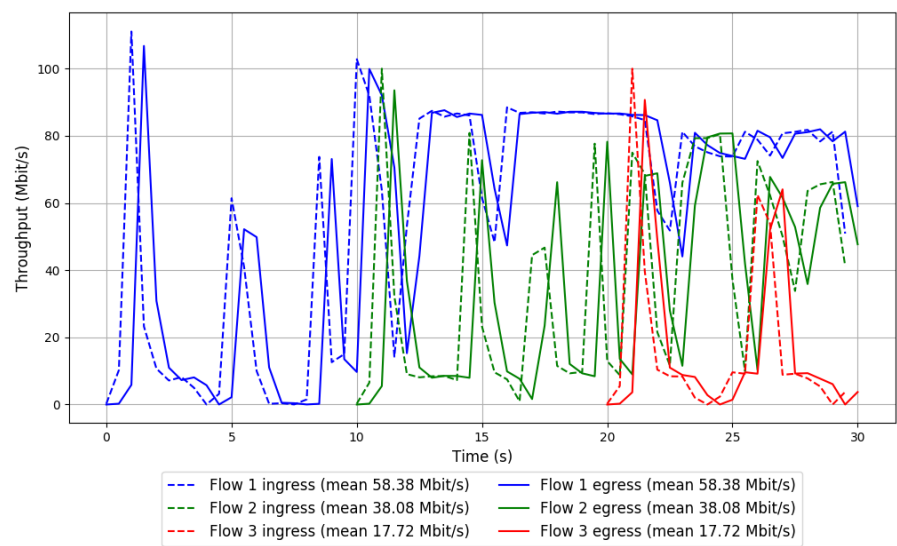


Run 5: Statistics of QUIC Cubic

Start at: 2018-06-01 11:54:22
End at: 2018-06-01 11:54:52
Local clock offset: 0.002 ms
Remote clock offset: -0.064 ms

Below is generated by plot.py at 2018-06-01 16:13:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.49 Mbit/s
95th percentile per-packet one-way delay: 50.301 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.38 Mbit/s
95th percentile per-packet one-way delay: 50.320 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.08 Mbit/s
95th percentile per-packet one-way delay: 49.759 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 17.72 Mbit/s
95th percentile per-packet one-way delay: 48.975 ms
Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-06-01 12:17:30

End at: 2018-06-01 12:18:00

Local clock offset: -0.398 ms

Remote clock offset: -0.07 ms

Below is generated by plot.py at 2018-06-01 16:13:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.74 Mbit/s

95th percentile per-packet one-way delay: 50.990 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.10 Mbit/s

95th percentile per-packet one-way delay: 50.982 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 30.13 Mbit/s

95th percentile per-packet one-way delay: 50.982 ms

Loss rate: 0.00%

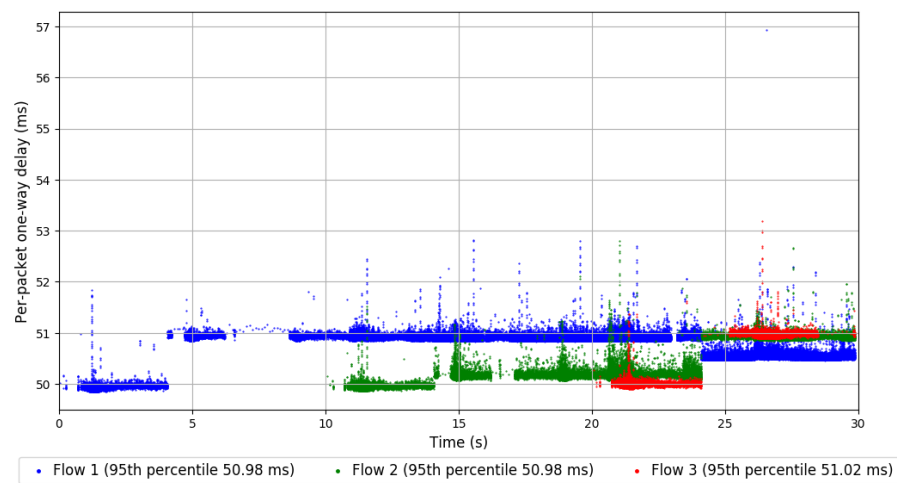
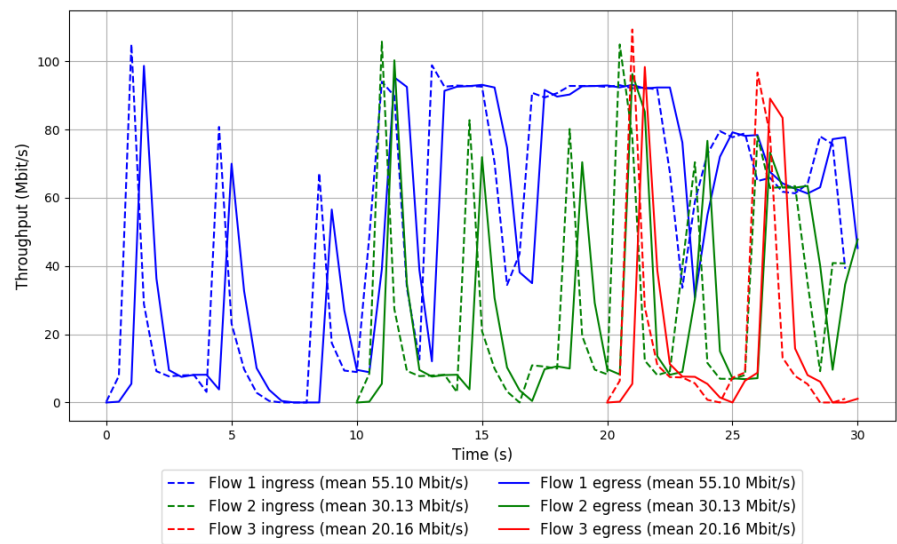
-- Flow 3:

Average throughput: 20.16 Mbit/s

95th percentile per-packet one-way delay: 51.023 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link

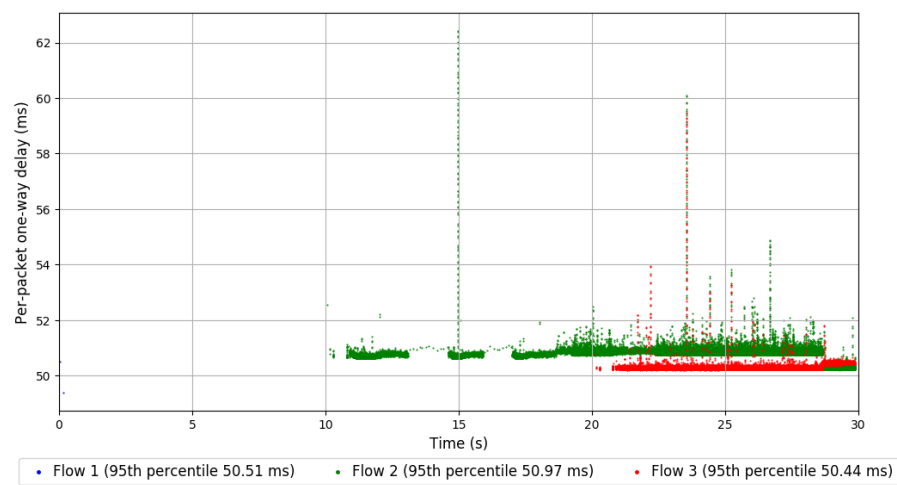
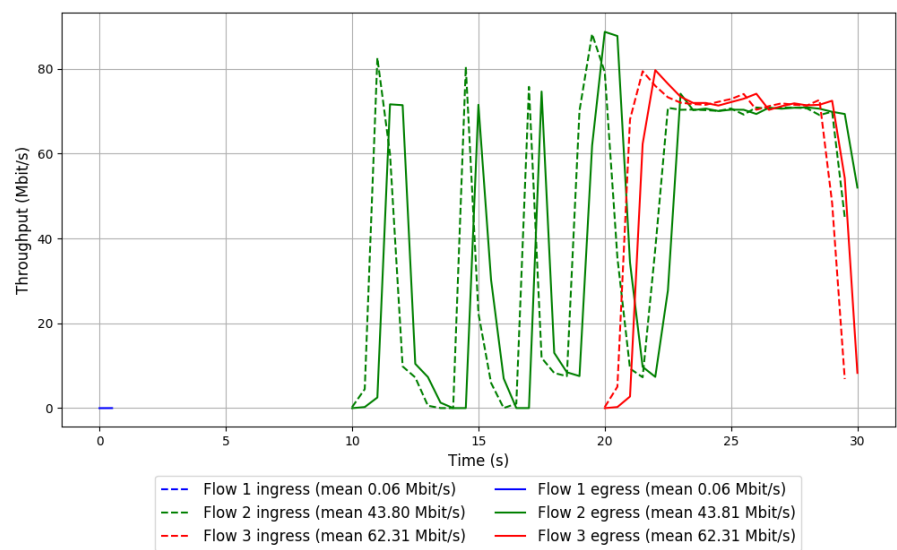


Run 7: Statistics of QUIC Cubic

Start at: 2018-06-01 12:40:54
End at: 2018-06-01 12:41:24
Local clock offset: 0.65 ms
Remote clock offset: -0.062 ms

Below is generated by plot.py at 2018-06-01 16:13:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.56 Mbit/s
95th percentile per-packet one-way delay: 50.918 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 50.513 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 43.81 Mbit/s
95th percentile per-packet one-way delay: 50.967 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 62.31 Mbit/s
95th percentile per-packet one-way delay: 50.443 ms
Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link

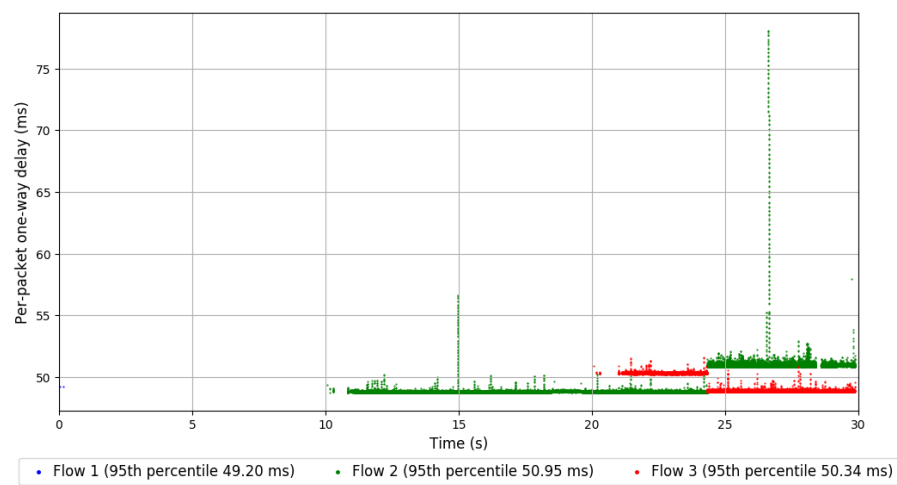
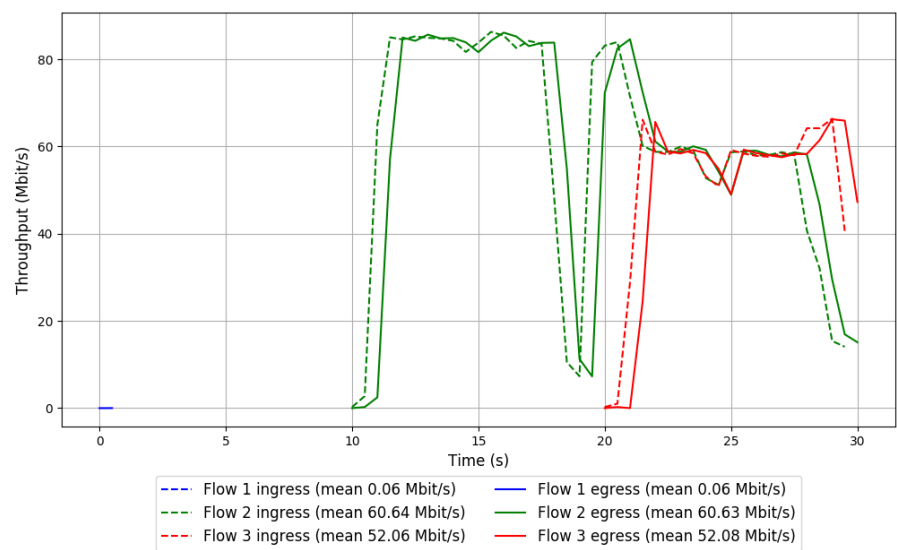


Run 8: Statistics of QUIC Cubic

Start at: 2018-06-01 13:03:50
End at: 2018-06-01 13:04:20
Local clock offset: 2.084 ms
Remote clock offset: -0.113 ms

Below is generated by plot.py at 2018-06-01 16:13:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 57.38 Mbit/s
95th percentile per-packet one-way delay: 50.930 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 49.197 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 60.63 Mbit/s
95th percentile per-packet one-way delay: 50.955 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 52.08 Mbit/s
95th percentile per-packet one-way delay: 50.345 ms
Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link

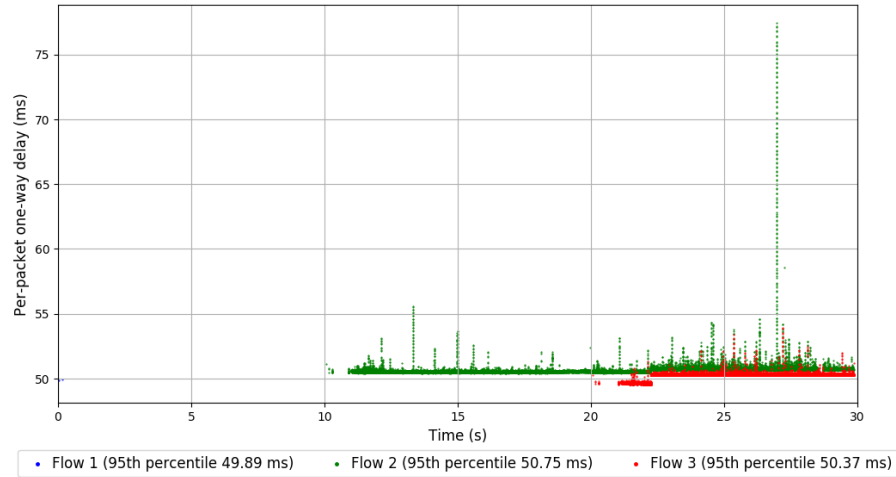
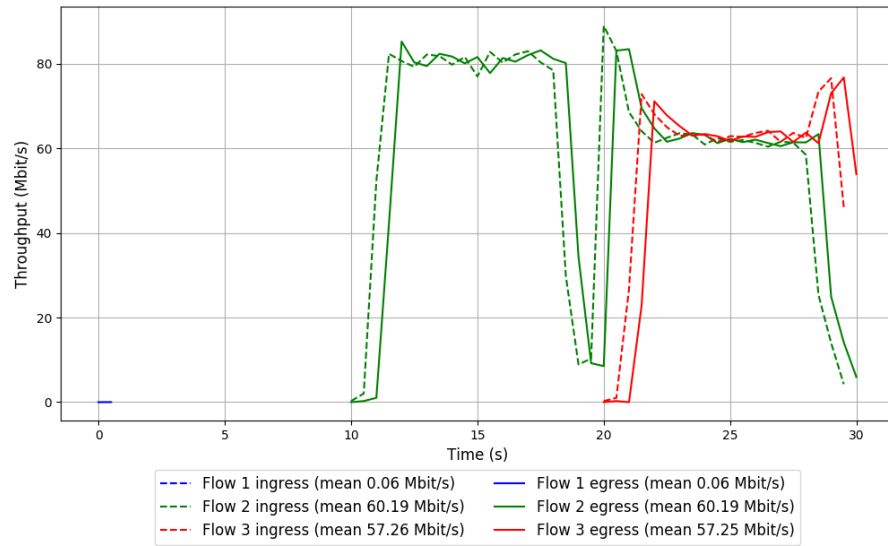


Run 9: Statistics of QUIC Cubic

Start at: 2018-06-01 13:26:42
End at: 2018-06-01 13:27:12
Local clock offset: 0.569 ms
Remote clock offset: -0.062 ms

Below is generated by plot.py at 2018-06-01 16:13:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 58.78 Mbit/s
95th percentile per-packet one-way delay: 50.732 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 49.893 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 60.19 Mbit/s
95th percentile per-packet one-way delay: 50.754 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 57.25 Mbit/s
95th percentile per-packet one-way delay: 50.371 ms
Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

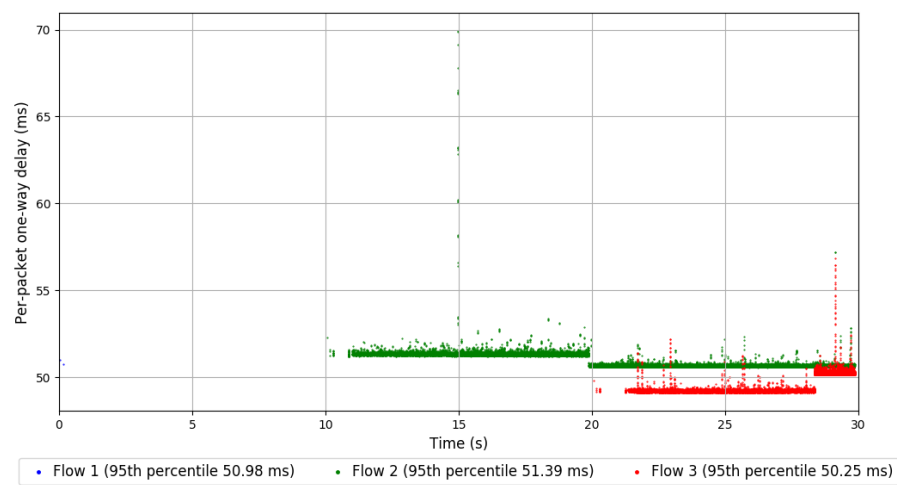
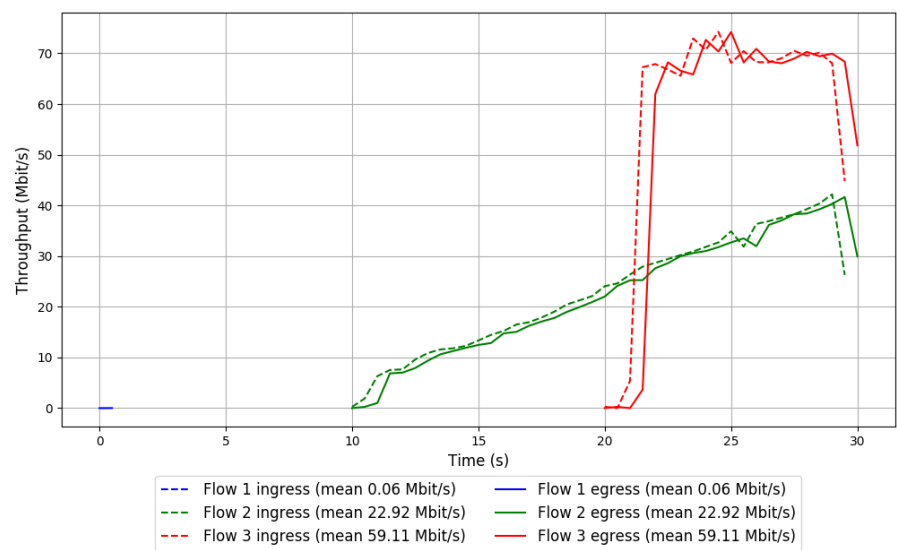


Run 10: Statistics of QUIC Cubic

Start at: 2018-06-01 13:49:45
End at: 2018-06-01 13:50:15
Local clock offset: 0.583 ms
Remote clock offset: -0.014 ms

Below is generated by plot.py at 2018-06-01 16:13:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.64 Mbit/s
95th percentile per-packet one-way delay: 51.330 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 50.985 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 22.92 Mbit/s
95th percentile per-packet one-way delay: 51.388 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 59.11 Mbit/s
95th percentile per-packet one-way delay: 50.246 ms
Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

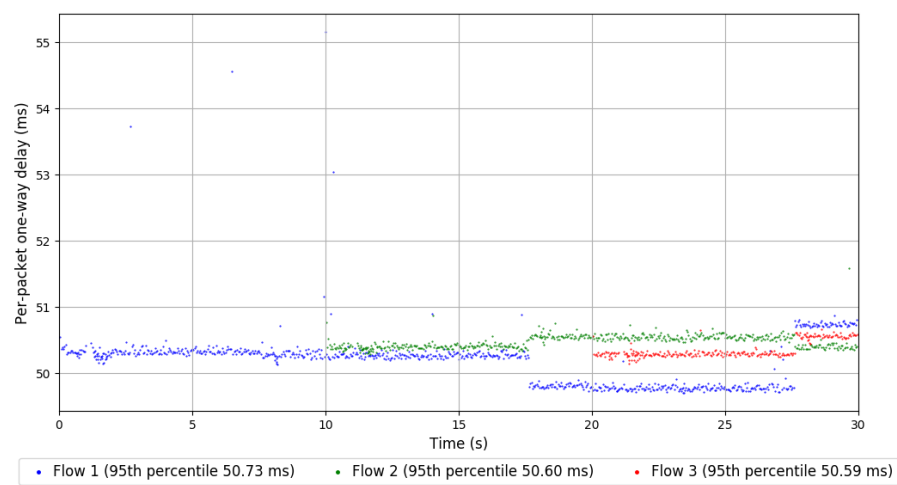
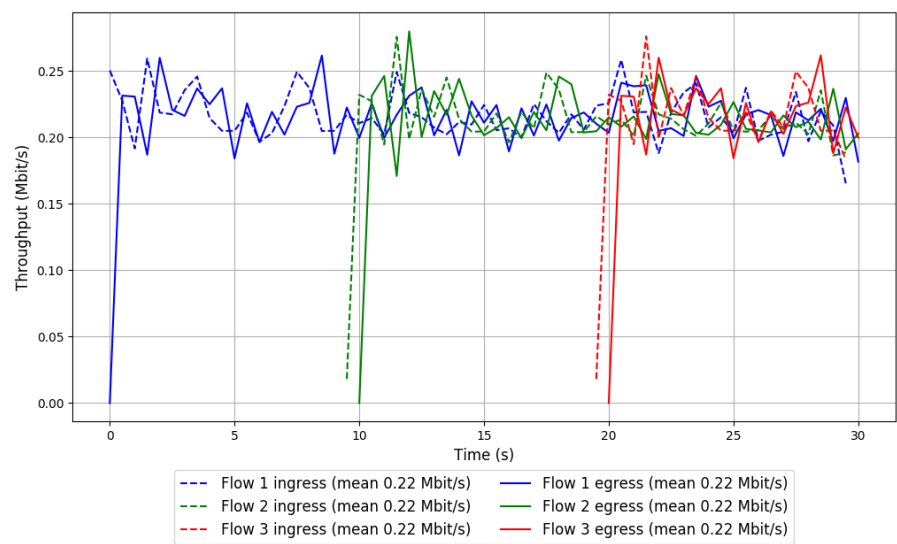


```
Run 1: Statistics of SReAM

Start at: 2018-06-01 10:23:37
End at: 2018-06-01 10:24:07
Local clock offset: 0.011 ms
Remote clock offset: 0.041 ms

# Below is generated by plot.py at 2018-06-01 16:13:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.663 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.734 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.602 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.586 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

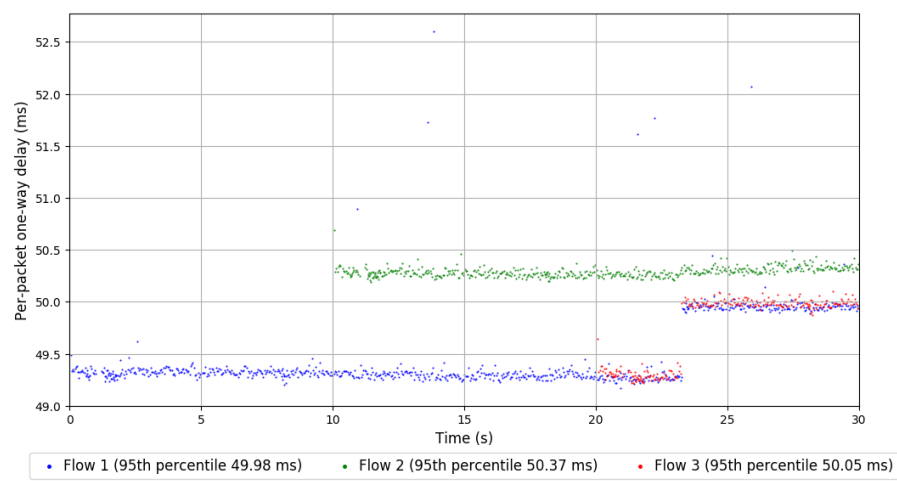
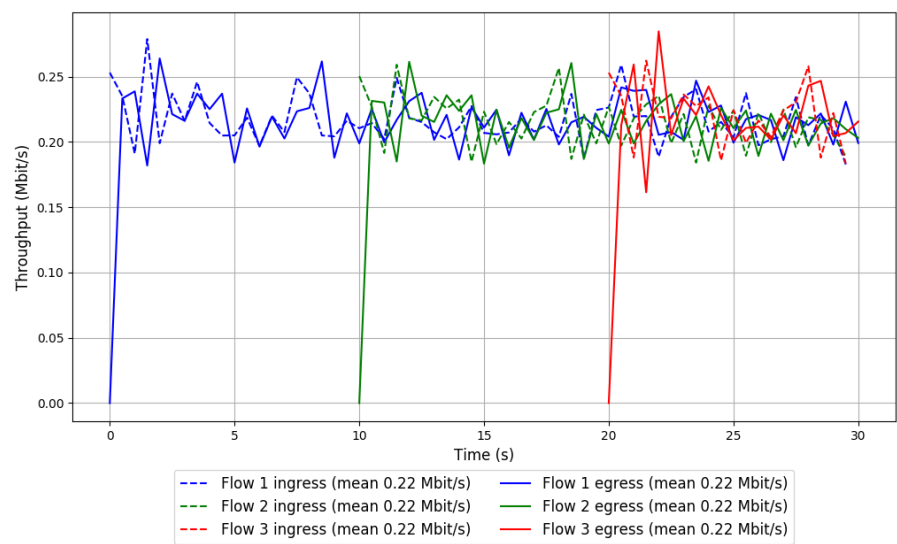


```
Run 2: Statistics of SReAM

Start at: 2018-06-01 10:47:11
End at: 2018-06-01 10:47:41
Local clock offset: 0.343 ms
Remote clock offset: 0.092 ms

# Below is generated by plot.py at 2018-06-01 16:13:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 50.333 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.977 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.367 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.048 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

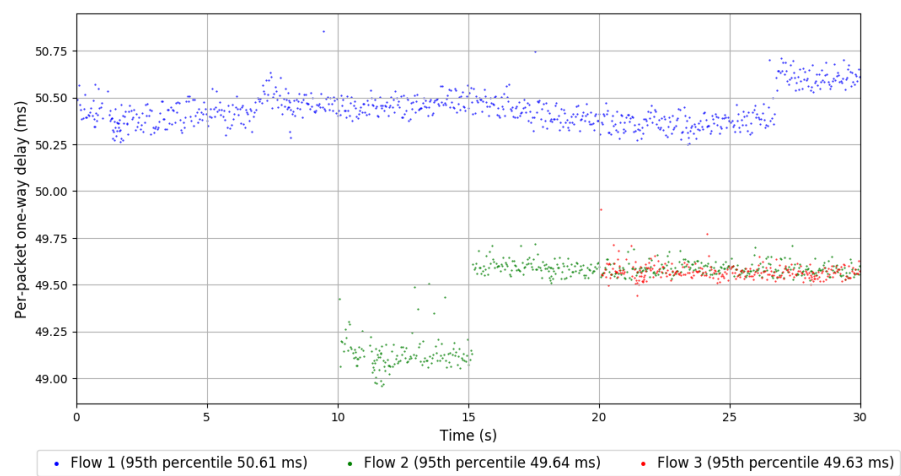
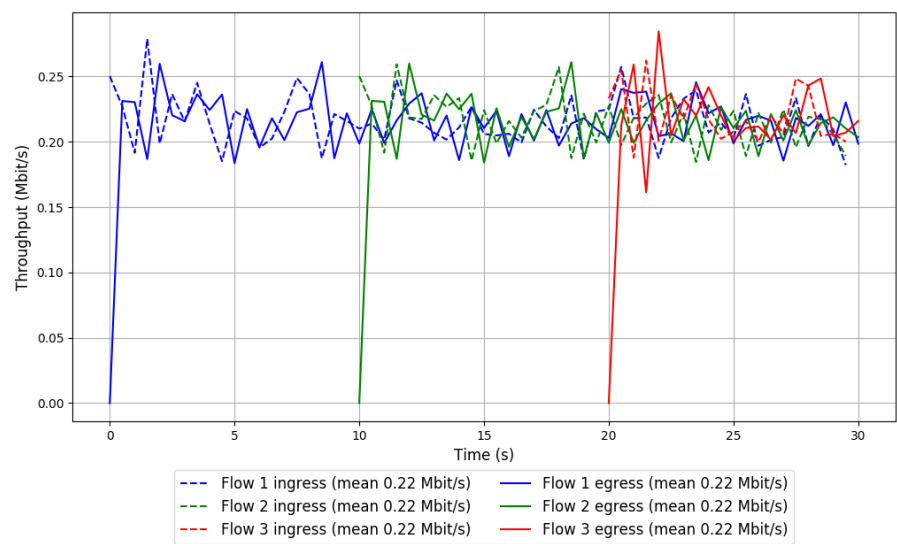


Run 3: Statistics of SReAM

Start at: 2018-06-01 11:10:18
End at: 2018-06-01 11:10:48
Local clock offset: -0.01 ms
Remote clock offset: -0.066 ms

Below is generated by plot.py at 2018-06-01 16:13:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.566 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.614 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.641 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.626 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

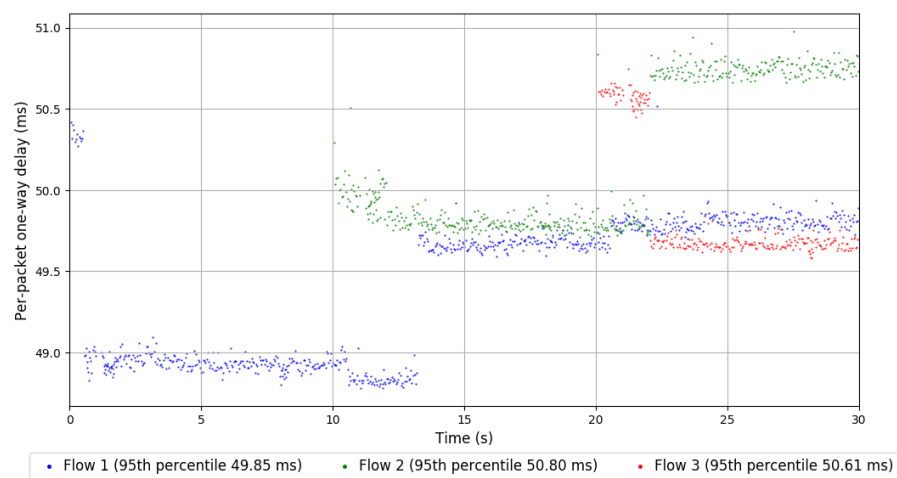
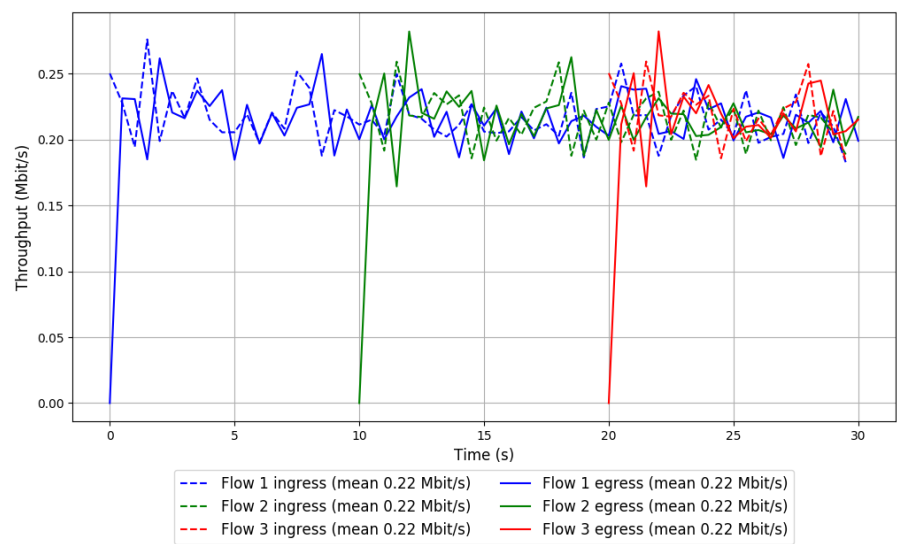


Run 4: Statistics of SReAM

Start at: 2018-06-01 11:33:33
End at: 2018-06-01 11:34:03
Local clock offset: -0.006 ms
Remote clock offset: -0.038 ms

Below is generated by plot.py at 2018-06-01 16:13:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 50.758 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.855 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.800 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.614 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

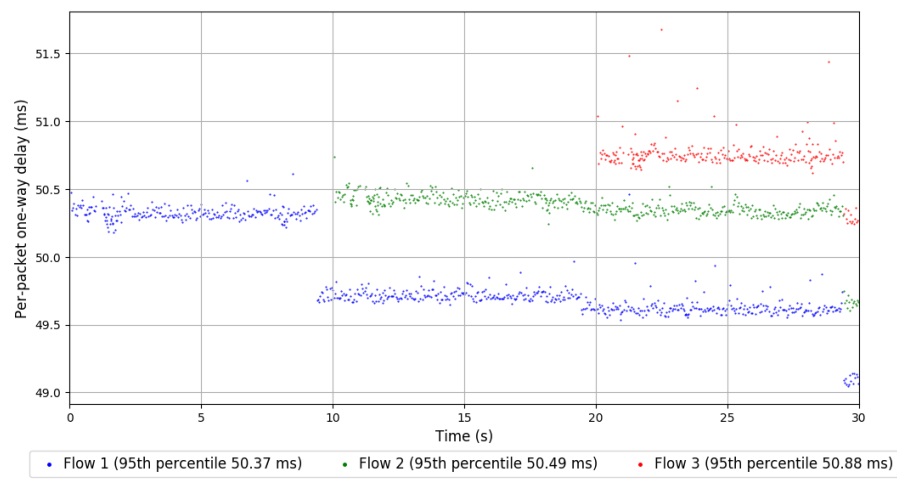
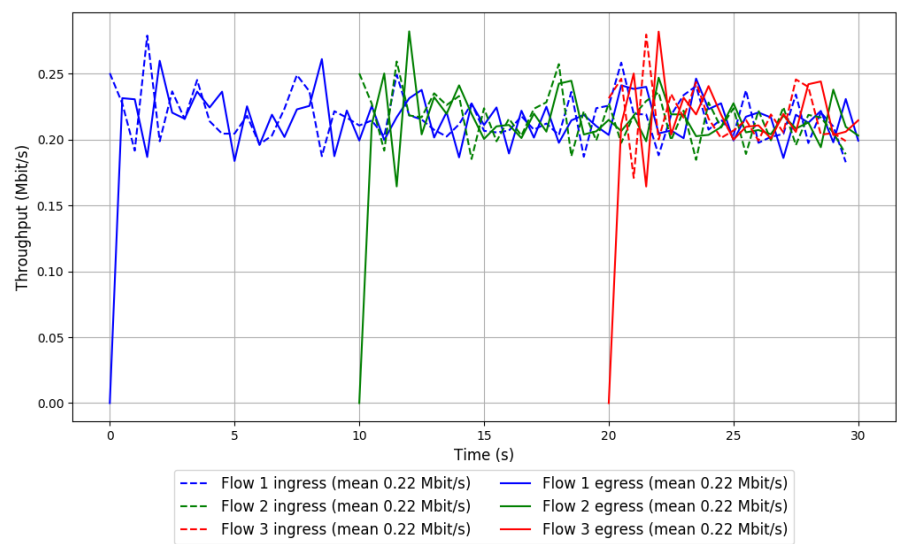


Run 5: Statistics of SReAM

Start at: 2018-06-01 11:56:44
End at: 2018-06-01 11:57:14
Local clock offset: -0.0 ms
Remote clock offset: -0.077 ms

Below is generated by plot.py at 2018-06-01 16:13:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.765 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.366 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.495 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.884 ms
Loss rate: 0.00%

Run 5: Report of SCRaM — Data Link

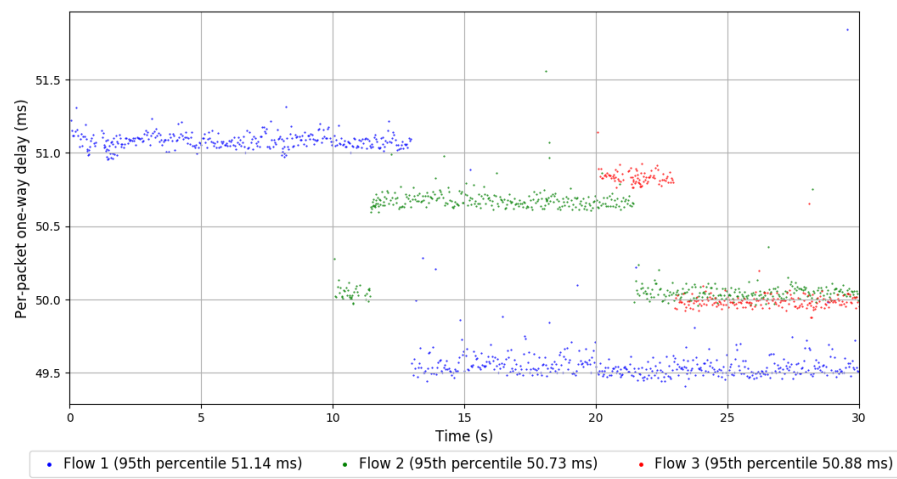
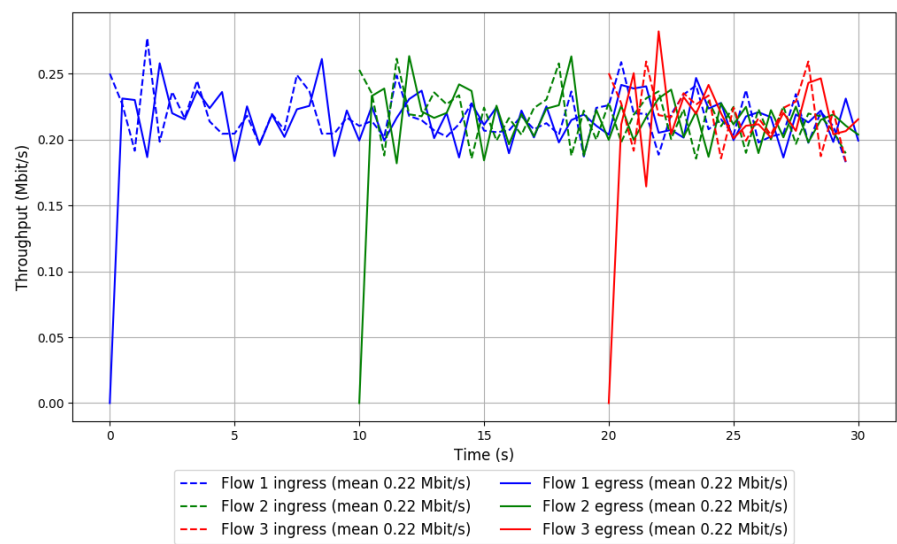


Run 6: Statistics of SReAM

Start at: 2018-06-01 12:19:52
End at: 2018-06-01 12:20:22
Local clock offset: -0.403 ms
Remote clock offset: -0.028 ms

Below is generated by plot.py at 2018-06-01 16:13:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 51.112 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.139 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.732 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.878 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

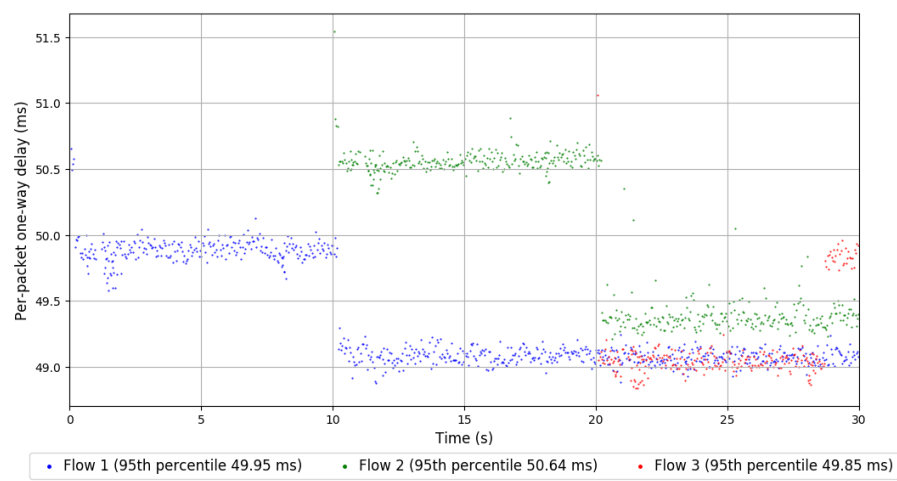
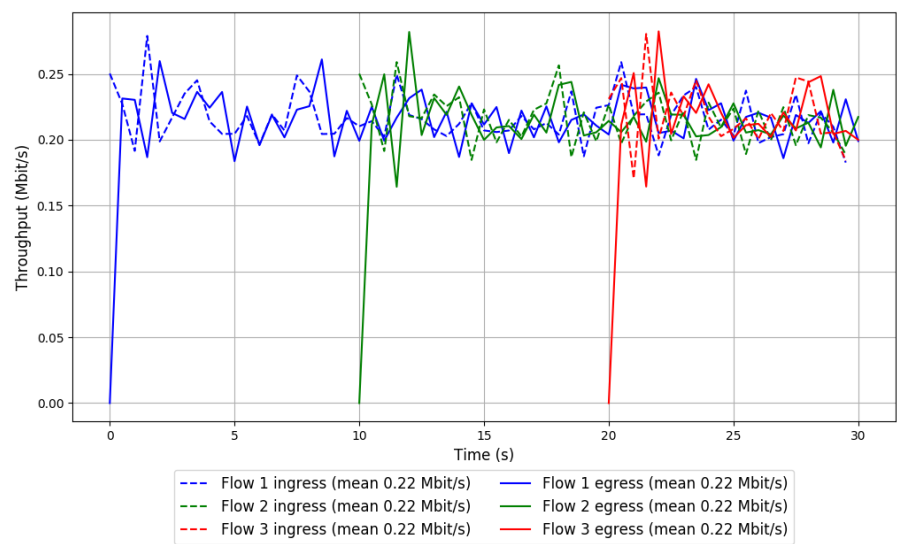


Run 7: Statistics of SReAM

Start at: 2018-06-01 12:43:14
End at: 2018-06-01 12:43:44
Local clock offset: 0.822 ms
Remote clock offset: -0.049 ms

Below is generated by plot.py at 2018-06-01 16:13:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.585 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.954 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.638 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.855 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

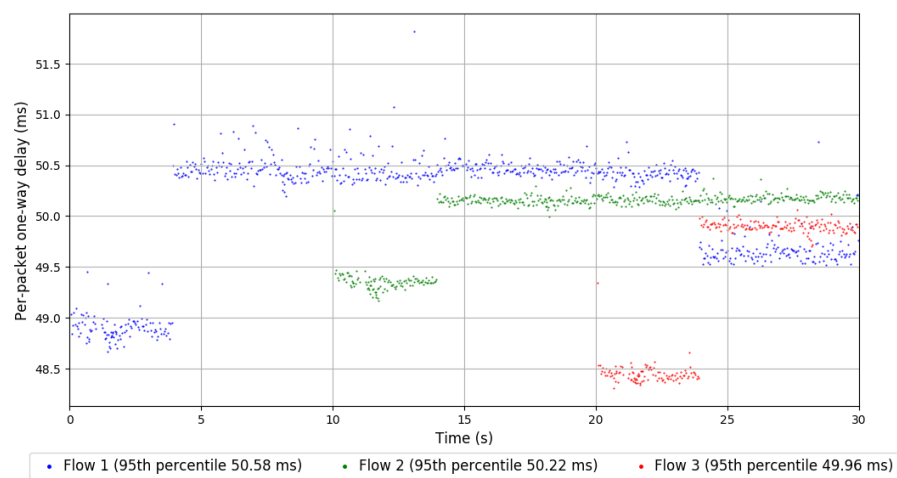
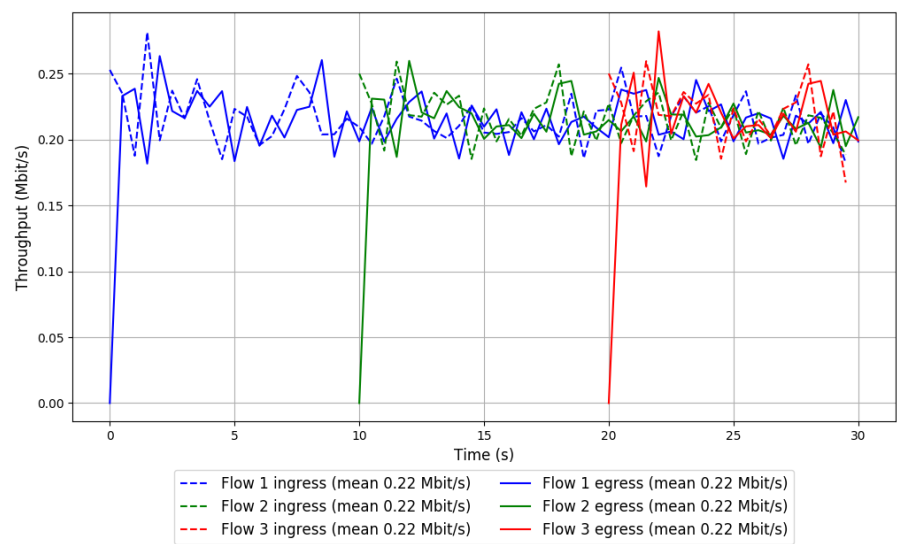


Run 8: Statistics of SReAM

Start at: 2018-06-01 13:06:11
End at: 2018-06-01 13:06:41
Local clock offset: 2.271 ms
Remote clock offset: -0.098 ms

Below is generated by plot.py at 2018-06-01 16:13:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.528 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.584 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.221 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.963 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

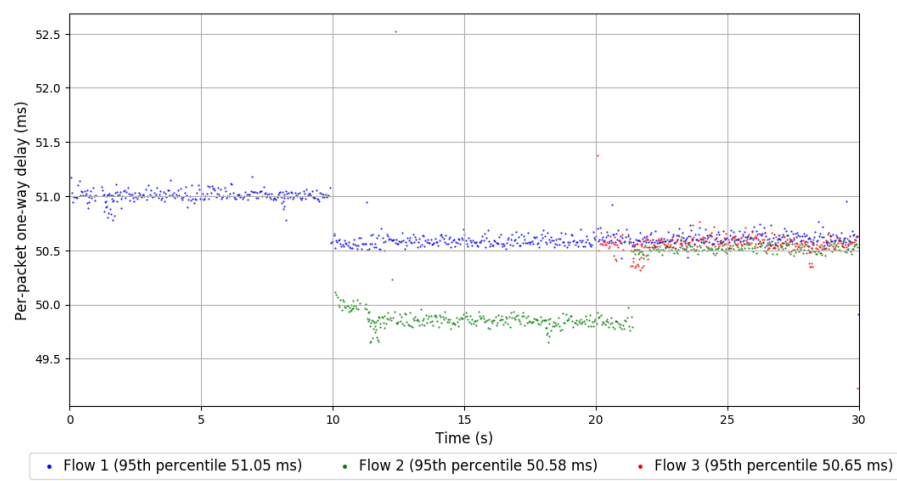
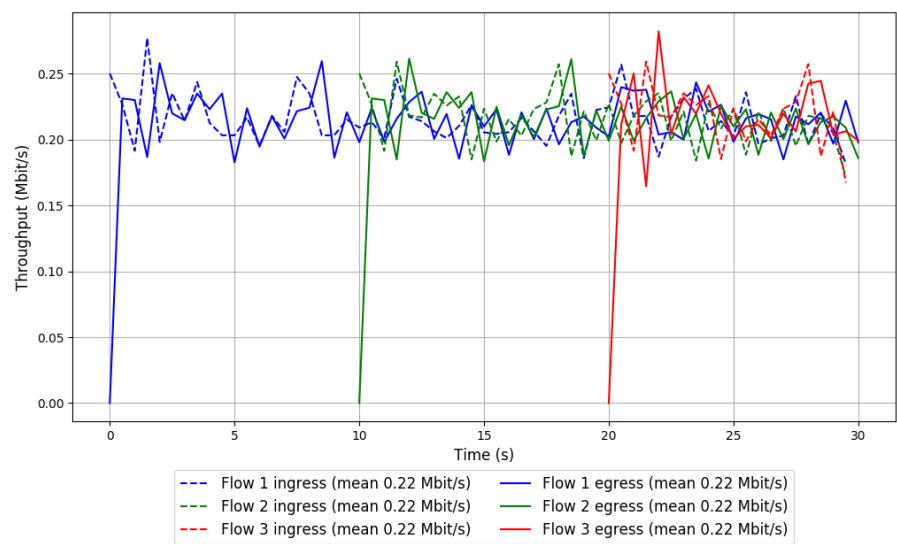


Run 9: Statistics of SReAM

Start at: 2018-06-01 13:29:03
End at: 2018-06-01 13:29:33
Local clock offset: 0.599 ms
Remote clock offset: -0.017 ms

Below is generated by plot.py at 2018-06-01 16:13:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 51.031 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.052 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.578 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.649 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

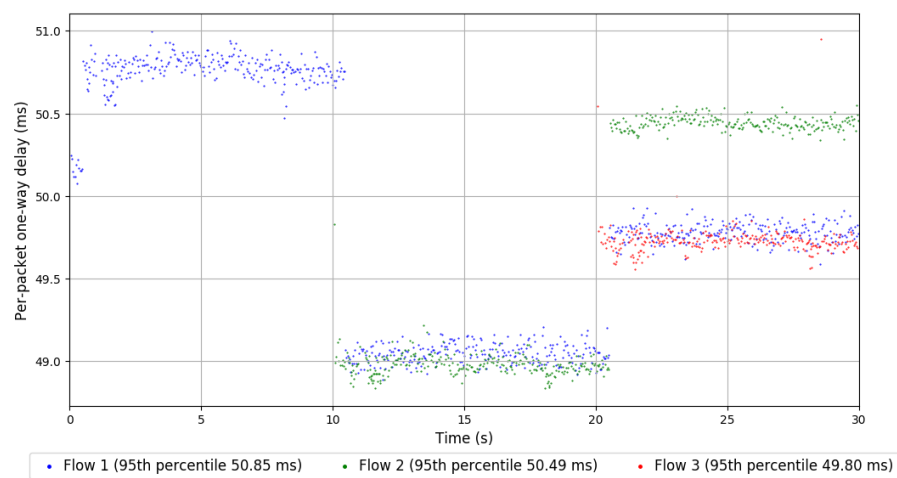
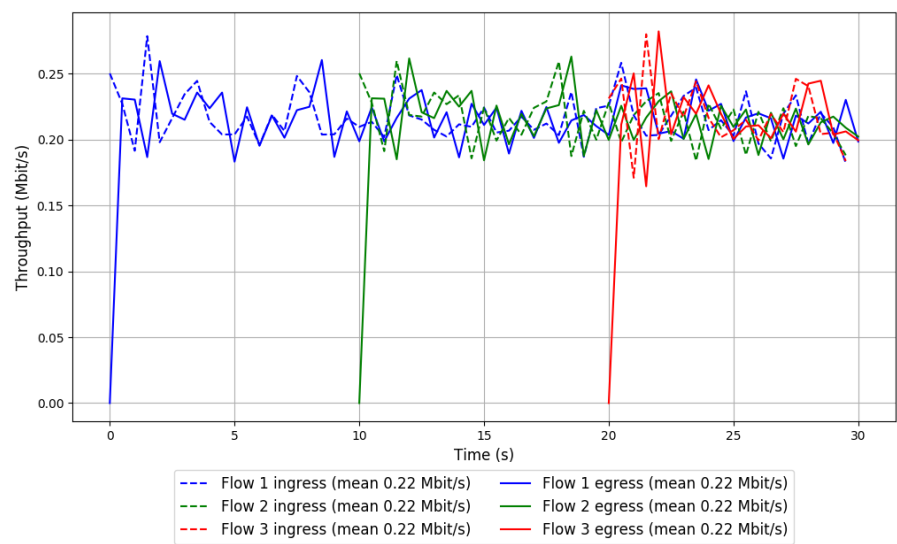


Run 10: Statistics of SReAM

Start at: 2018-06-01 13:52:04
End at: 2018-06-01 13:52:34
Local clock offset: 1.027 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-06-01 16:13:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.812 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.847 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.492 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.802 ms
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-06-01 10:22:28

End at: 2018-06-01 10:22:58

Local clock offset: -0.03 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-06-01 16:13:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.58 Mbit/s

95th percentile per-packet one-way delay: 51.215 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.86 Mbit/s

95th percentile per-packet one-way delay: 51.228 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.64 Mbit/s

95th percentile per-packet one-way delay: 51.205 ms

Loss rate: 0.00%

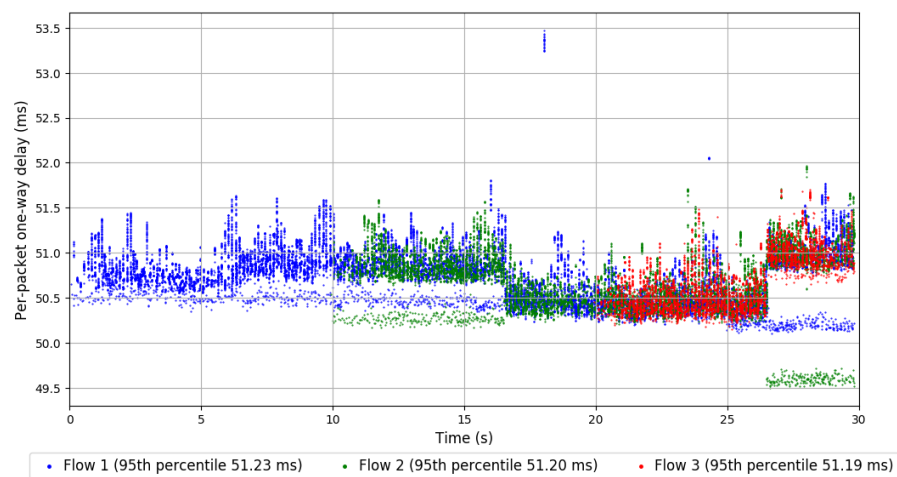
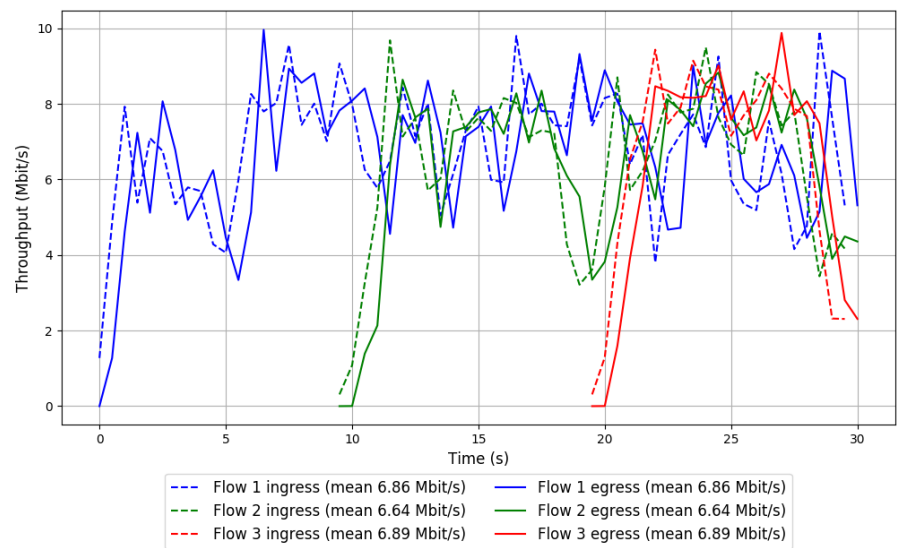
-- Flow 3:

Average throughput: 6.89 Mbit/s

95th percentile per-packet one-way delay: 51.194 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

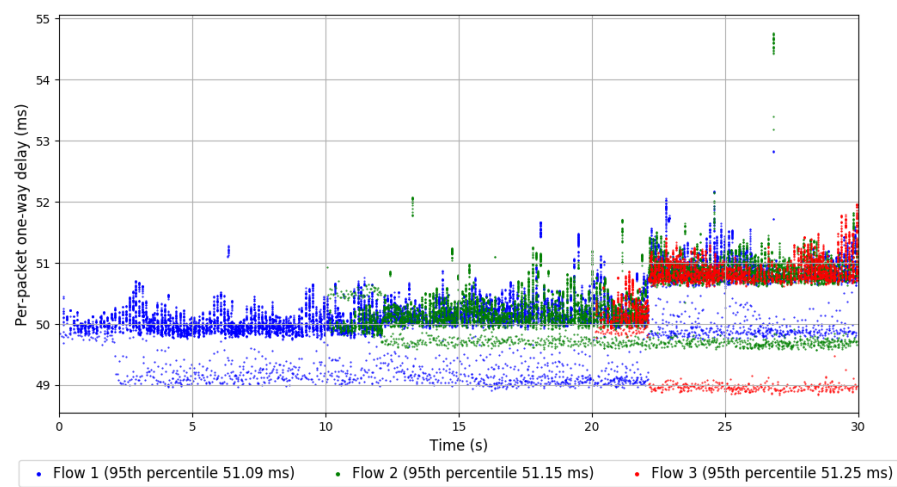
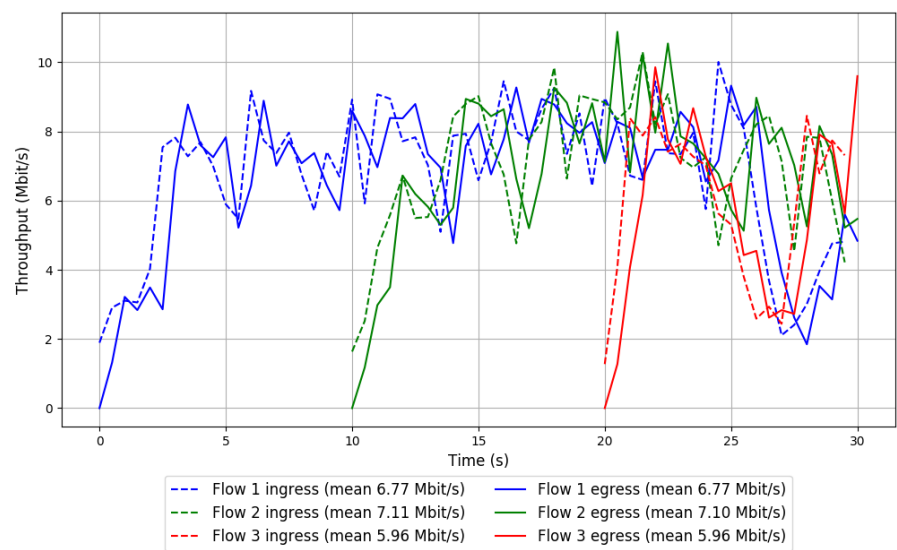


Run 2: Statistics of Sprout

Start at: 2018-06-01 10:46:02
End at: 2018-06-01 10:46:32
Local clock offset: -0.136 ms
Remote clock offset: 0.075 ms

Below is generated by plot.py at 2018-06-01 16:13:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.46 Mbit/s
95th percentile per-packet one-way delay: 51.152 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.77 Mbit/s
95th percentile per-packet one-way delay: 51.090 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.10 Mbit/s
95th percentile per-packet one-way delay: 51.150 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.96 Mbit/s
95th percentile per-packet one-way delay: 51.249 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

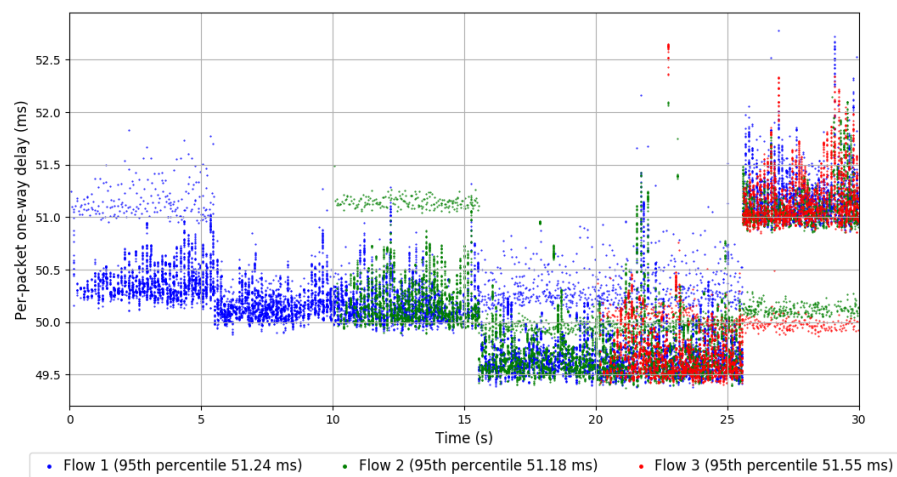
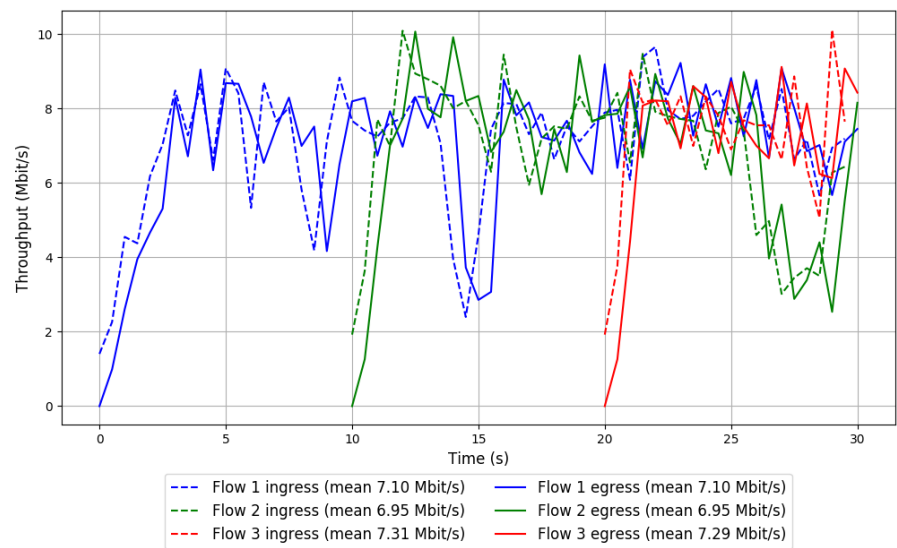


Run 3: Statistics of Sprout

Start at: 2018-06-01 11:09:09
End at: 2018-06-01 11:09:39
Local clock offset: -0.401 ms
Remote clock offset: -0.064 ms

```
# Below is generated by plot.py at 2018-06-01 16:13:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.13 Mbit/s
95th percentile per-packet one-way delay: 51.283 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 7.10 Mbit/s
95th percentile per-packet one-way delay: 51.244 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.95 Mbit/s
95th percentile per-packet one-way delay: 51.176 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.29 Mbit/s
95th percentile per-packet one-way delay: 51.548 ms
Loss rate: 0.18%
```

Run 3: Report of Sprout — Data Link

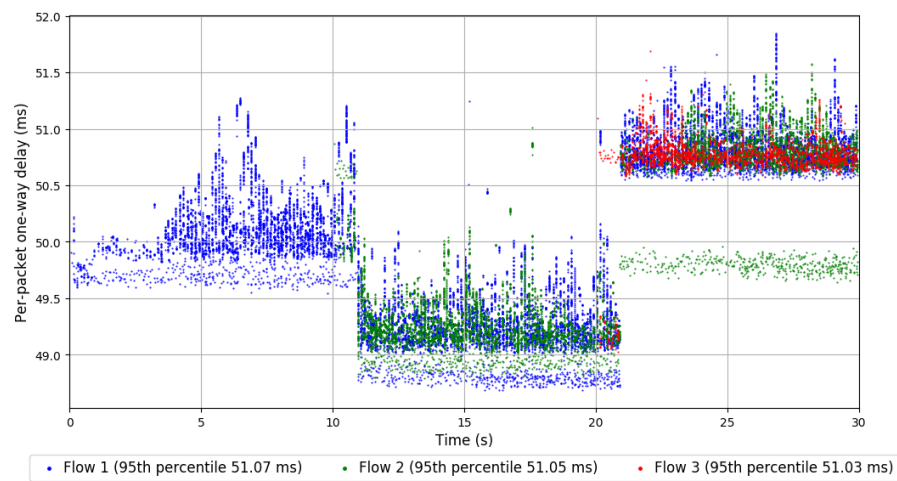
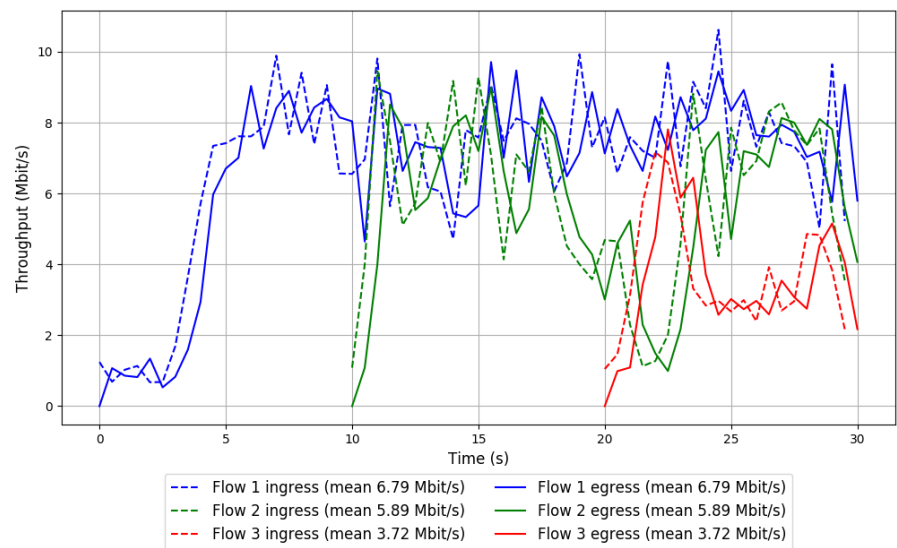


Run 4: Statistics of Sprout

Start at: 2018-06-01 11:32:24
End at: 2018-06-01 11:32:54
Local clock offset: -0.042 ms
Remote clock offset: -0.088 ms

```
# Below is generated by plot.py at 2018-06-01 16:13:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.93 Mbit/s
95th percentile per-packet one-way delay: 51.057 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.79 Mbit/s
95th percentile per-packet one-way delay: 51.070 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.89 Mbit/s
95th percentile per-packet one-way delay: 51.046 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.72 Mbit/s
95th percentile per-packet one-way delay: 51.030 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

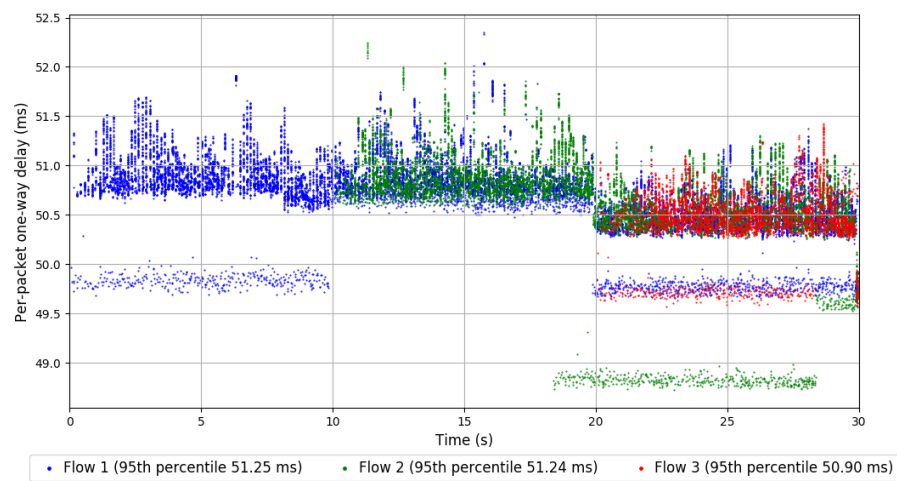
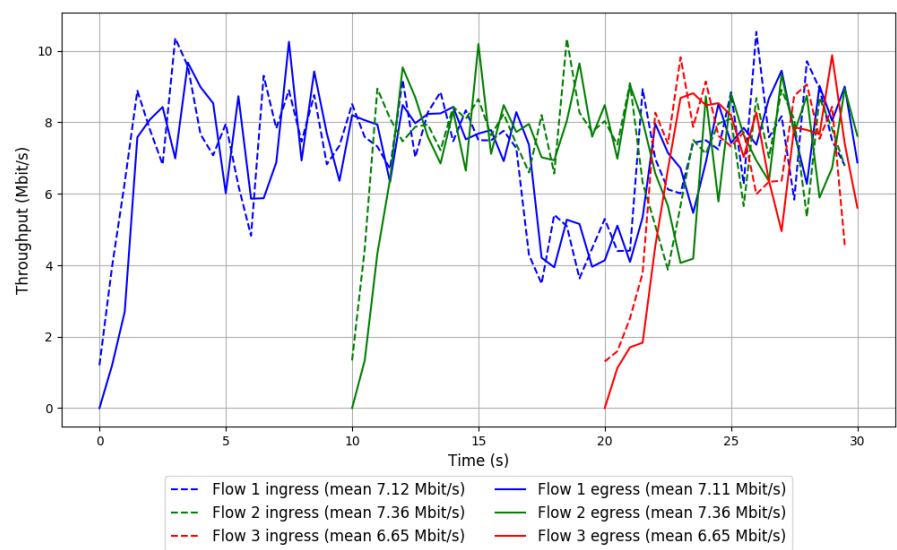


Run 5: Statistics of Sprout

Start at: 2018-06-01 11:55:35
End at: 2018-06-01 11:56:05
Local clock offset: -0.037 ms
Remote clock offset: -0.078 ms

Below is generated by plot.py at 2018-06-01 16:13:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.20 Mbit/s
95th percentile per-packet one-way delay: 51.219 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.11 Mbit/s
95th percentile per-packet one-way delay: 51.252 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.36 Mbit/s
95th percentile per-packet one-way delay: 51.240 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.65 Mbit/s
95th percentile per-packet one-way delay: 50.902 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

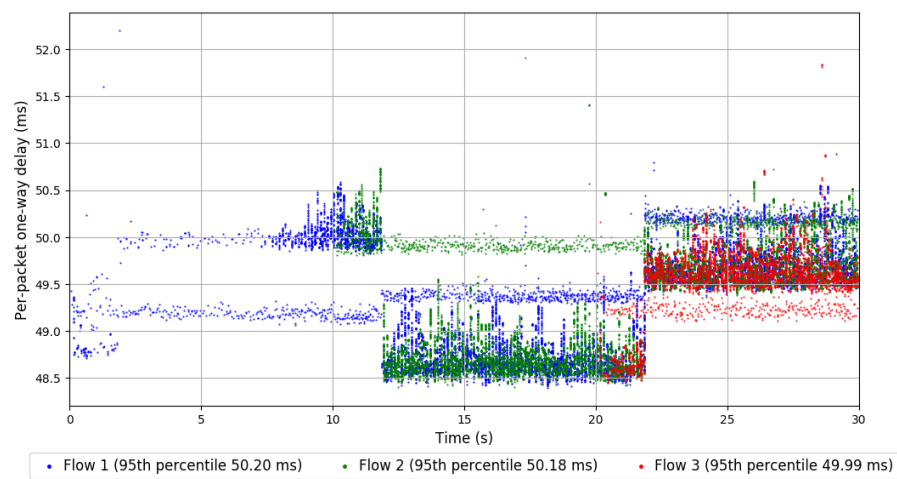
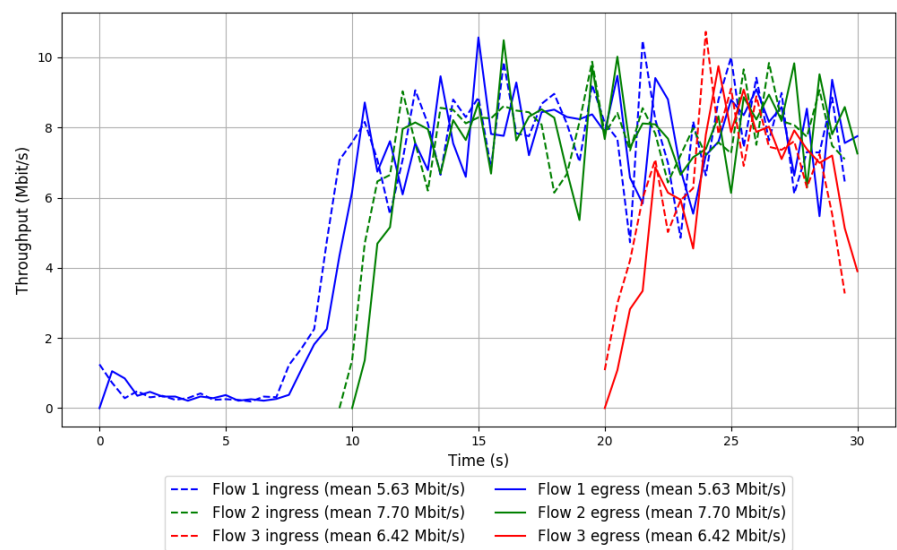


Run 6: Statistics of Sprout

Start at: 2018-06-01 12:18:43
End at: 2018-06-01 12:19:13
Local clock offset: 0.357 ms
Remote clock offset: -0.044 ms

Below is generated by plot.py at 2018-06-01 16:13:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.88 Mbit/s
95th percentile per-packet one-way delay: 50.174 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.63 Mbit/s
95th percentile per-packet one-way delay: 50.200 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.70 Mbit/s
95th percentile per-packet one-way delay: 50.176 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.42 Mbit/s
95th percentile per-packet one-way delay: 49.987 ms
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

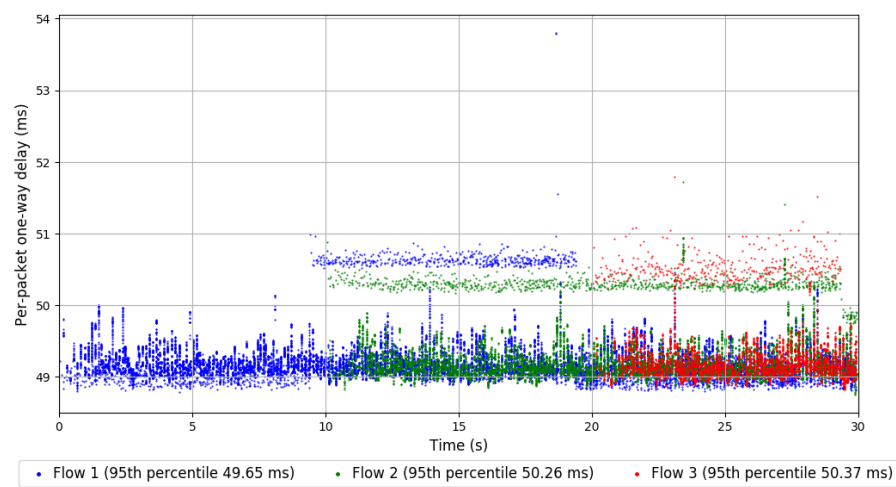
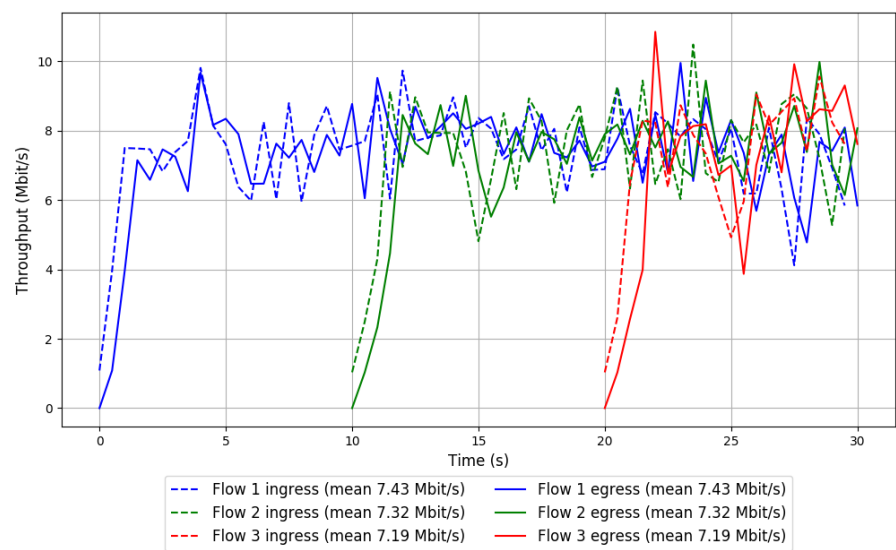


Run 7: Statistics of Sprout

Start at: 2018-06-01 12:42:05
End at: 2018-06-01 12:42:35
Local clock offset: 0.749 ms
Remote clock offset: -0.077 ms

Below is generated by plot.py at 2018-06-01 16:13:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.65 Mbit/s
95th percentile per-packet one-way delay: 50.037 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.43 Mbit/s
95th percentile per-packet one-way delay: 49.653 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.32 Mbit/s
95th percentile per-packet one-way delay: 50.264 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.19 Mbit/s
95th percentile per-packet one-way delay: 50.370 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

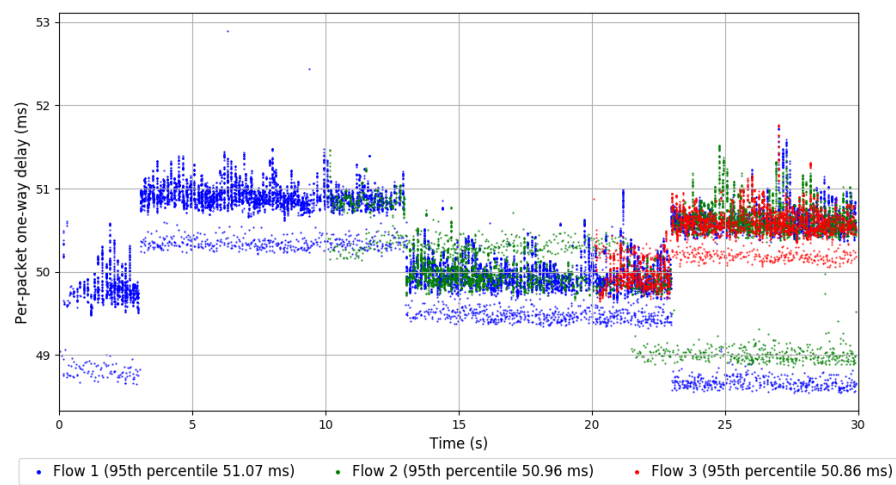
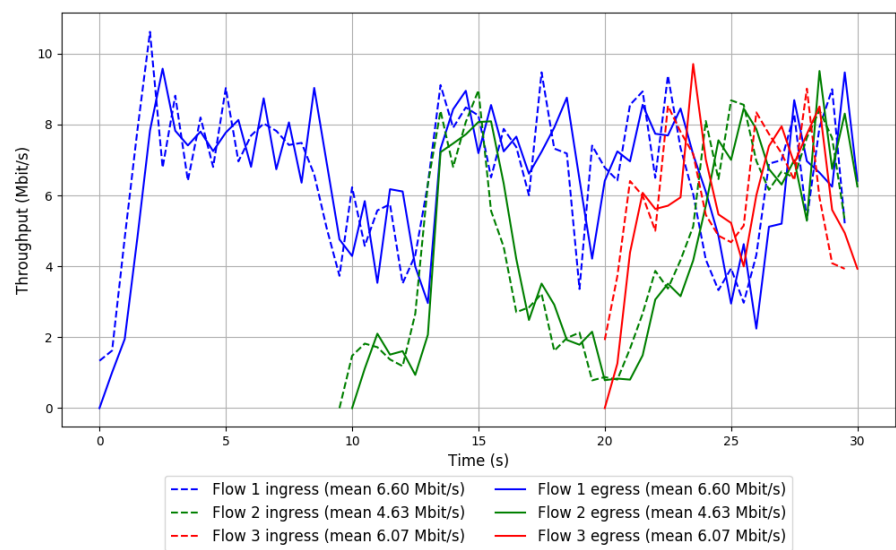


Run 8: Statistics of Sprout

Start at: 2018-06-01 13:05:02
End at: 2018-06-01 13:05:32
Local clock offset: 2.125 ms
Remote clock offset: -0.093 ms

Below is generated by plot.py at 2018-06-01 16:13:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 11.67 Mbit/s
95th percentile per-packet one-way delay: 51.026 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.60 Mbit/s
95th percentile per-packet one-way delay: 51.068 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.63 Mbit/s
95th percentile per-packet one-way delay: 50.956 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.07 Mbit/s
95th percentile per-packet one-way delay: 50.860 ms
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

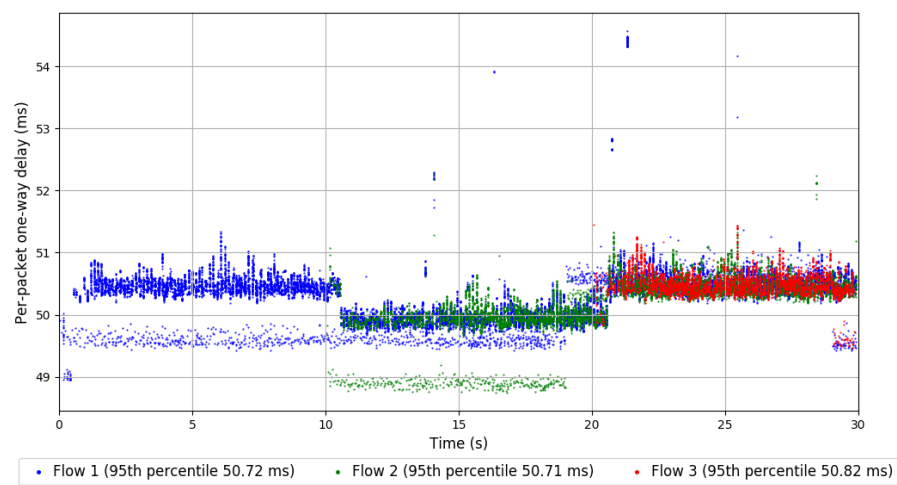
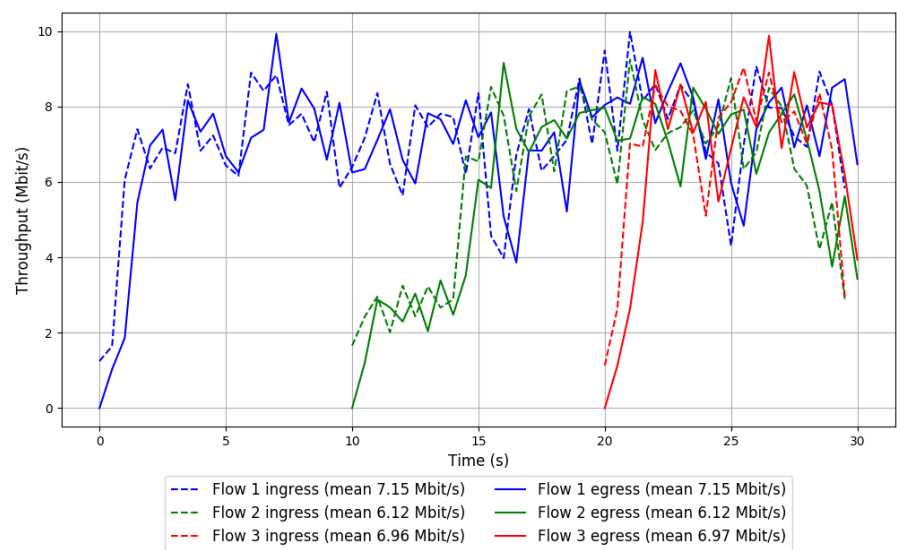


Run 9: Statistics of Sprout

Start at: 2018-06-01 13:27:54
End at: 2018-06-01 13:28:24
Local clock offset: 0.606 ms
Remote clock offset: -0.077 ms

Below is generated by plot.py at 2018-06-01 16:13:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.50 Mbit/s
95th percentile per-packet one-way delay: 50.739 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 7.15 Mbit/s
95th percentile per-packet one-way delay: 50.724 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.12 Mbit/s
95th percentile per-packet one-way delay: 50.708 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 6.97 Mbit/s
95th percentile per-packet one-way delay: 50.824 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

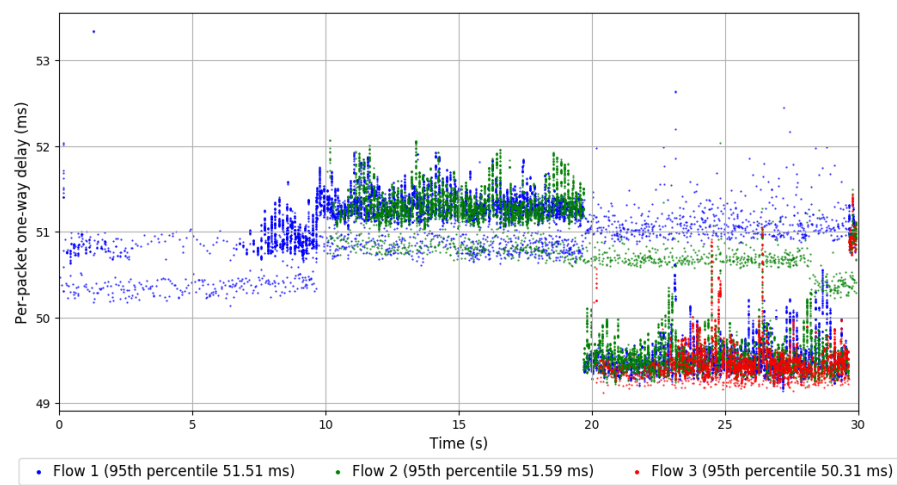
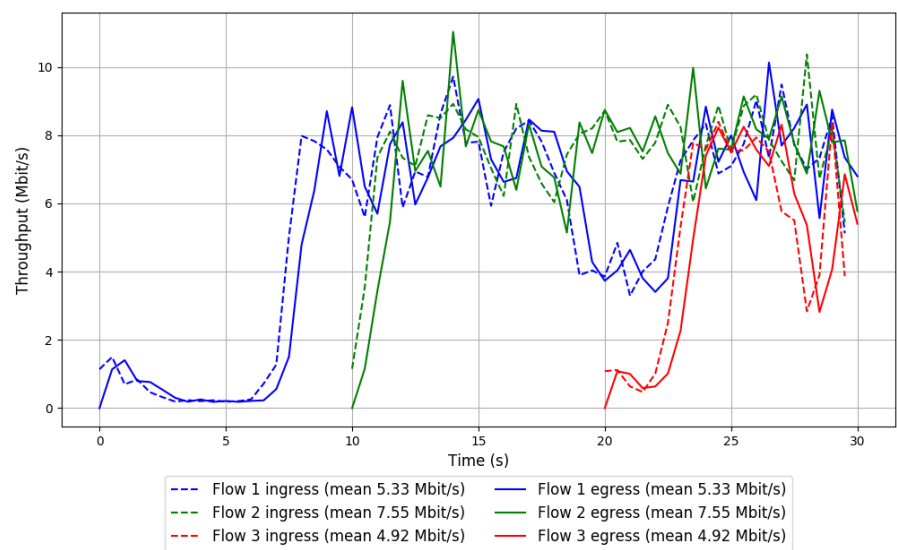


Run 10: Statistics of Sprout

Start at: 2018-06-01 13:50:55
End at: 2018-06-01 13:51:25
Local clock offset: 0.594 ms
Remote clock offset: -0.08 ms

Below is generated by plot.py at 2018-06-01 16:13:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 11.97 Mbit/s
95th percentile per-packet one-way delay: 51.522 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.33 Mbit/s
95th percentile per-packet one-way delay: 51.511 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.55 Mbit/s
95th percentile per-packet one-way delay: 51.592 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.92 Mbit/s
95th percentile per-packet one-way delay: 50.309 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

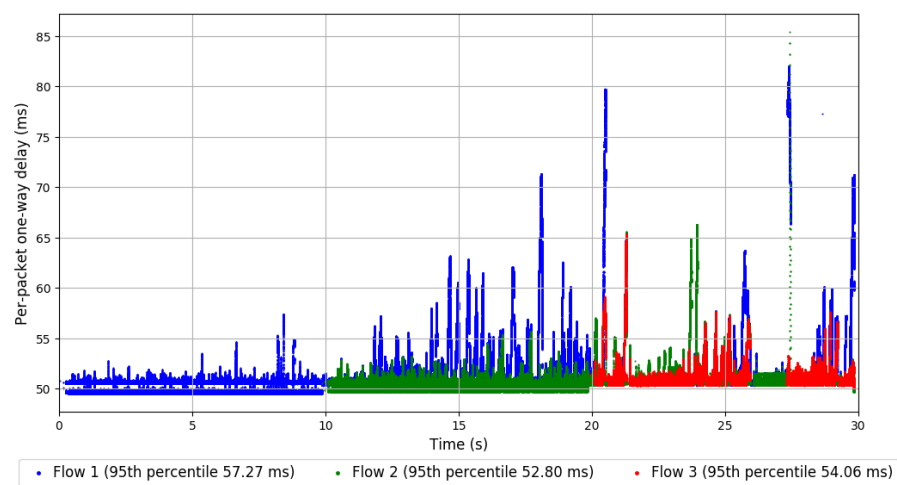
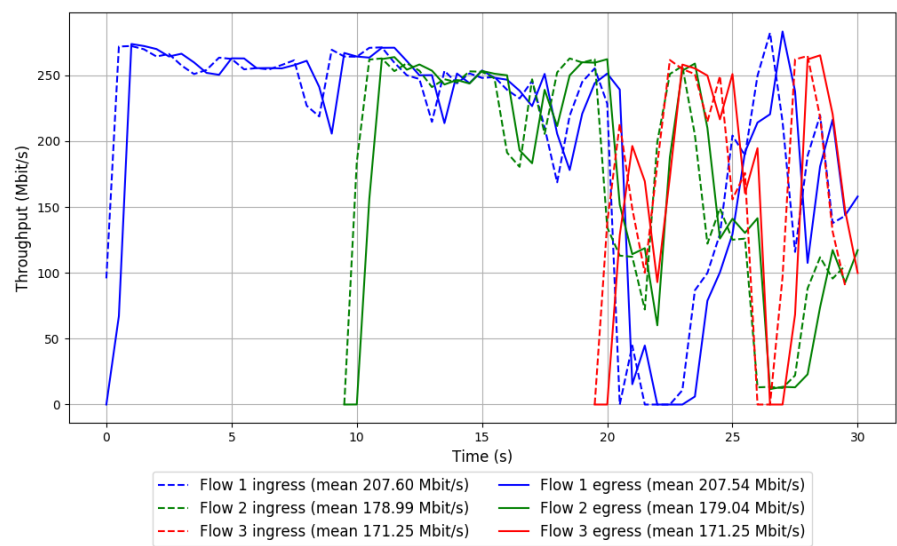


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-01 10:06:25
End at: 2018-06-01 10:06:55
Local clock offset: -0.043 ms
Remote clock offset: 0.013 ms

# Below is generated by plot.py at 2018-06-01 16:19:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 384.66 Mbit/s
95th percentile per-packet one-way delay: 55.334 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 207.54 Mbit/s
95th percentile per-packet one-way delay: 57.267 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 179.04 Mbit/s
95th percentile per-packet one-way delay: 52.800 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 171.25 Mbit/s
95th percentile per-packet one-way delay: 54.062 ms
Loss rate: 0.00%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-06-01 10:29:43

End at: 2018-06-01 10:30:13

Local clock offset: -0.007 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2018-06-01 16:19:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 325.41 Mbit/s

95th percentile per-packet one-way delay: 58.610 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 190.42 Mbit/s

95th percentile per-packet one-way delay: 60.173 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 126.70 Mbit/s

95th percentile per-packet one-way delay: 58.104 ms

Loss rate: 0.00%

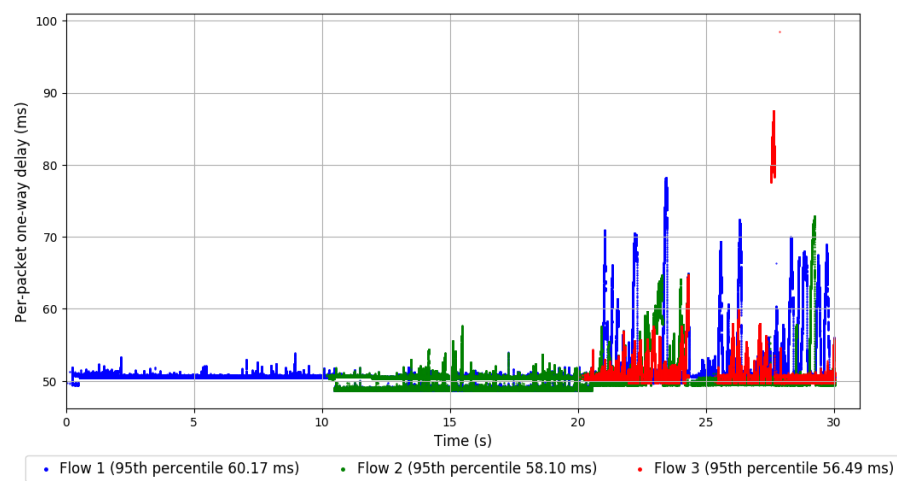
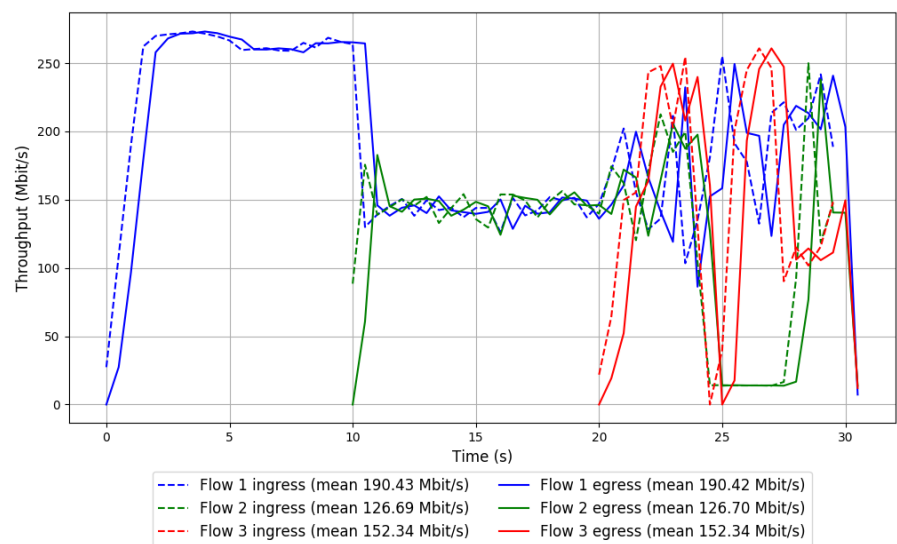
-- Flow 3:

Average throughput: 152.34 Mbit/s

95th percentile per-packet one-way delay: 56.488 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-06-01 10:53:15

End at: 2018-06-01 10:53:45

Local clock offset: -0.018 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-06-01 16:19:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 354.49 Mbit/s

95th percentile per-packet one-way delay: 59.078 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 171.00 Mbit/s

95th percentile per-packet one-way delay: 56.148 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 189.85 Mbit/s

95th percentile per-packet one-way delay: 58.785 ms

Loss rate: 0.01%

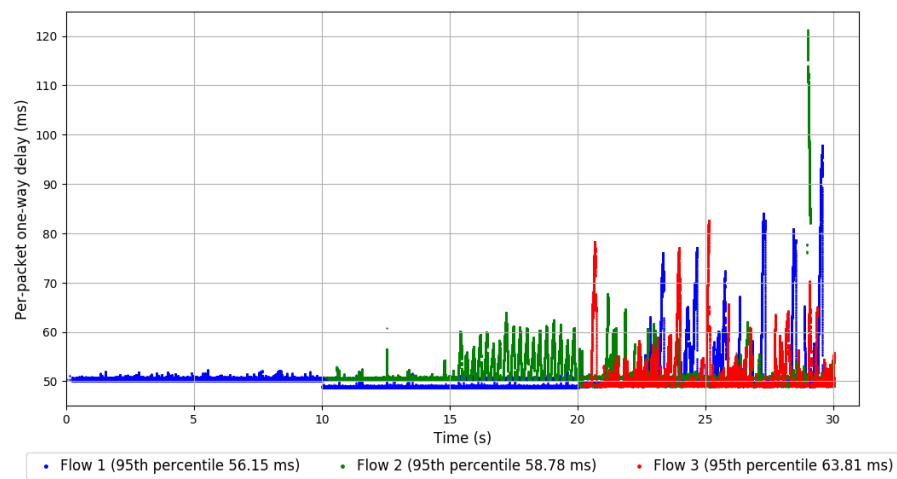
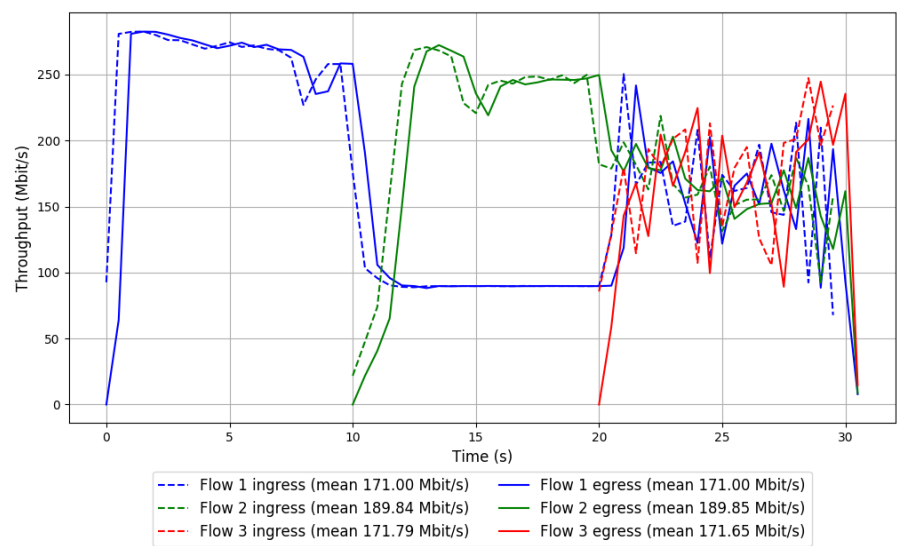
-- Flow 3:

Average throughput: 171.65 Mbit/s

95th percentile per-packet one-way delay: 63.806 ms

Loss rate: 0.09%

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

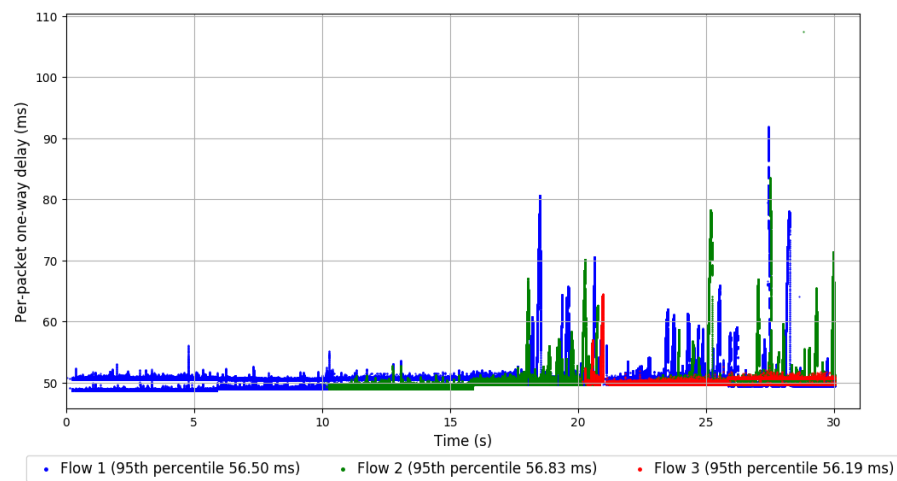
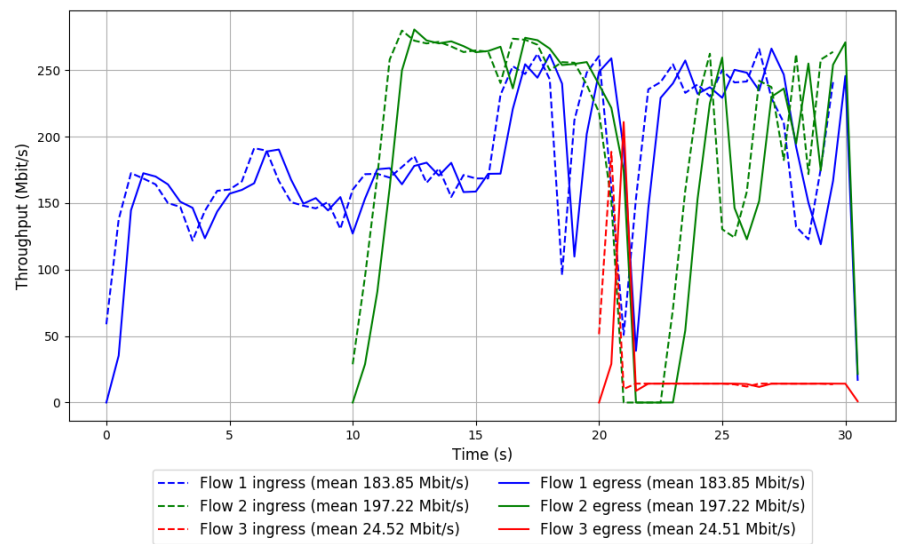


Run 4: Statistics of TaoVA-100x

Start at: 2018-06-01 11:16:29
End at: 2018-06-01 11:16:59
Local clock offset: -0.029 ms
Remote clock offset: -0.078 ms

Below is generated by plot.py at 2018-06-01 16:19:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 323.39 Mbit/s
95th percentile per-packet one-way delay: 56.598 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 183.85 Mbit/s
95th percentile per-packet one-way delay: 56.498 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 197.22 Mbit/s
95th percentile per-packet one-way delay: 56.829 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.51 Mbit/s
95th percentile per-packet one-way delay: 56.191 ms
Loss rate: 0.00%

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

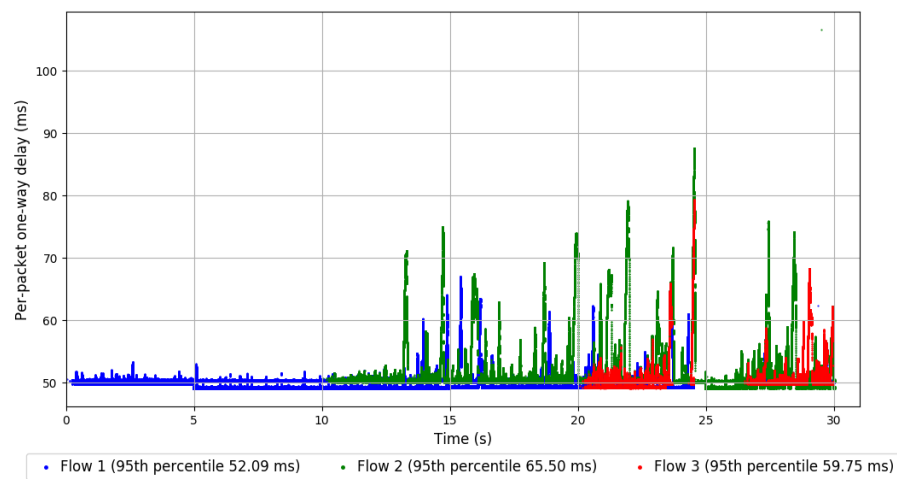
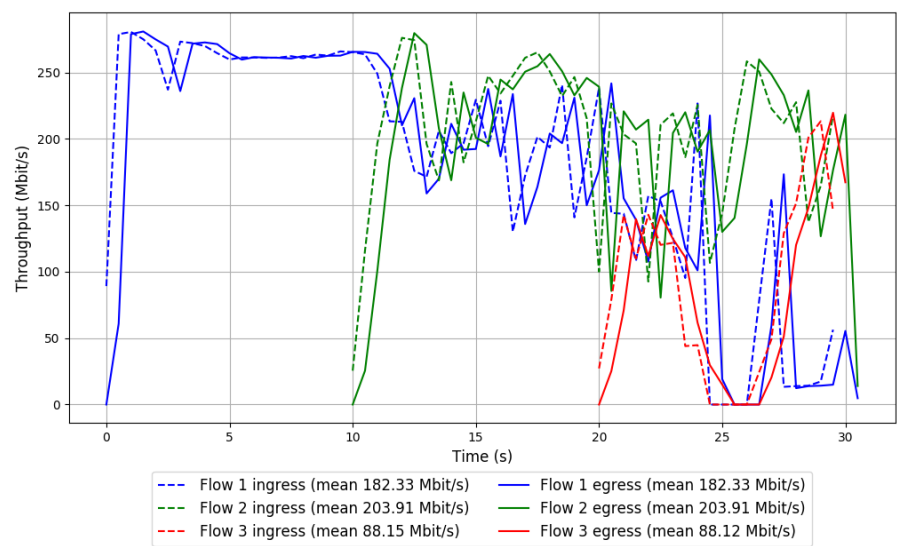


Run 5: Statistics of TaoVA-100x

Start at: 2018-06-01 11:39:40
End at: 2018-06-01 11:40:10
Local clock offset: 0.359 ms
Remote clock offset: -0.072 ms

Below is generated by plot.py at 2018-06-01 16:19:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 347.26 Mbit/s
95th percentile per-packet one-way delay: 58.922 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 182.33 Mbit/s
95th percentile per-packet one-way delay: 52.088 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 203.91 Mbit/s
95th percentile per-packet one-way delay: 65.495 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 88.12 Mbit/s
95th percentile per-packet one-way delay: 59.753 ms
Loss rate: 0.00%

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

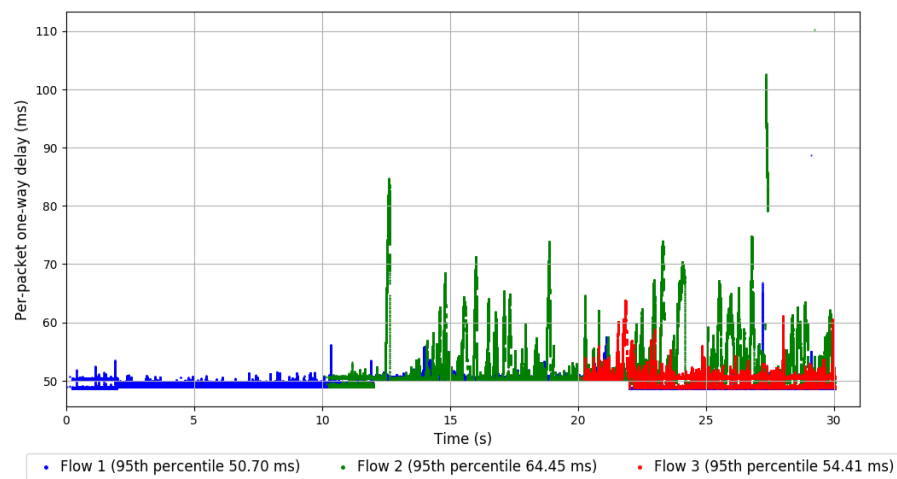
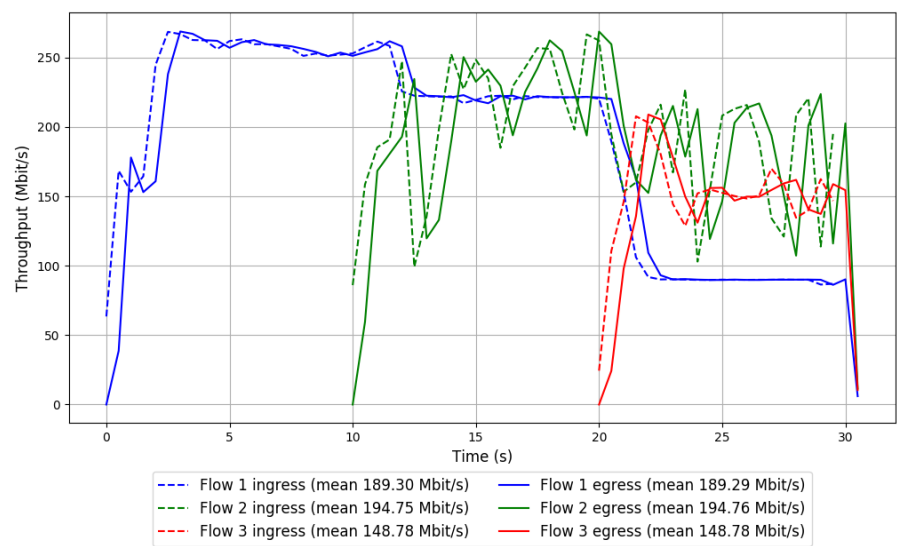


Run 6: Statistics of TaoVA-100x

Start at: 2018-06-01 12:02:43
End at: 2018-06-01 12:03:13
Local clock offset: -0.008 ms
Remote clock offset: -0.072 ms

Below is generated by plot.py at 2018-06-01 16:22:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 368.44 Mbit/s
95th percentile per-packet one-way delay: 58.576 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 189.29 Mbit/s
95th percentile per-packet one-way delay: 50.703 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 194.76 Mbit/s
95th percentile per-packet one-way delay: 64.453 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 148.78 Mbit/s
95th percentile per-packet one-way delay: 54.415 ms
Loss rate: 0.00%

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

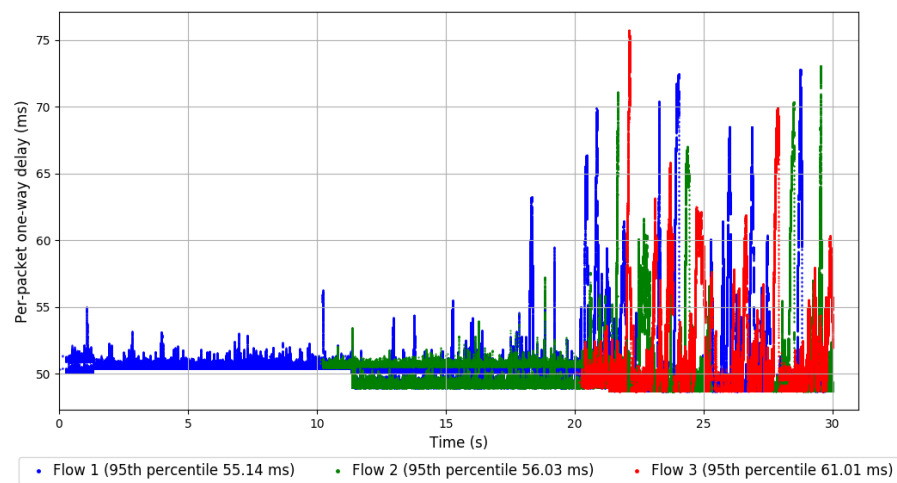
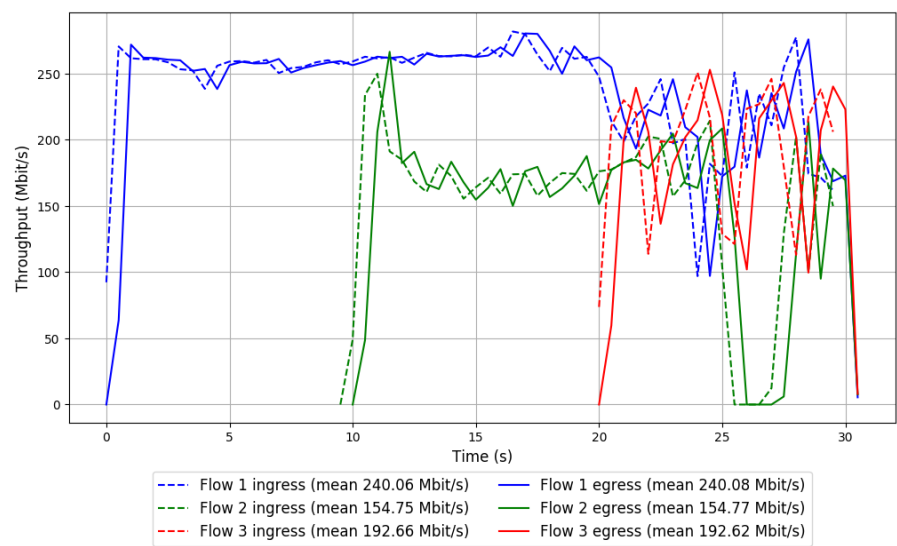


Run 7: Statistics of TaoVA-100x

Start at: 2018-06-01 12:25:53
End at: 2018-06-01 12:26:23
Local clock offset: -0.002 ms
Remote clock offset: -0.059 ms

Below is generated by plot.py at 2018-06-01 16:25:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 407.20 Mbit/s
95th percentile per-packet one-way delay: 57.560 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 240.08 Mbit/s
95th percentile per-packet one-way delay: 55.141 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 154.77 Mbit/s
95th percentile per-packet one-way delay: 56.035 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 192.62 Mbit/s
95th percentile per-packet one-way delay: 61.009 ms
Loss rate: 0.03%

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

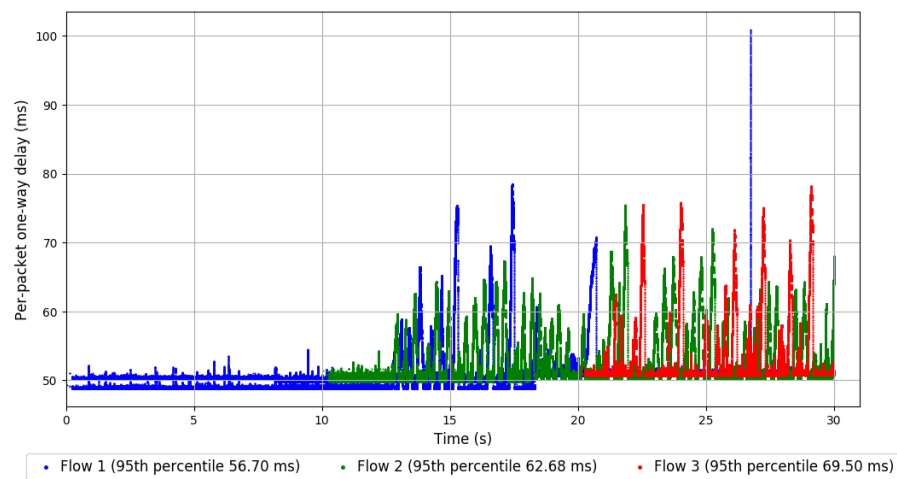
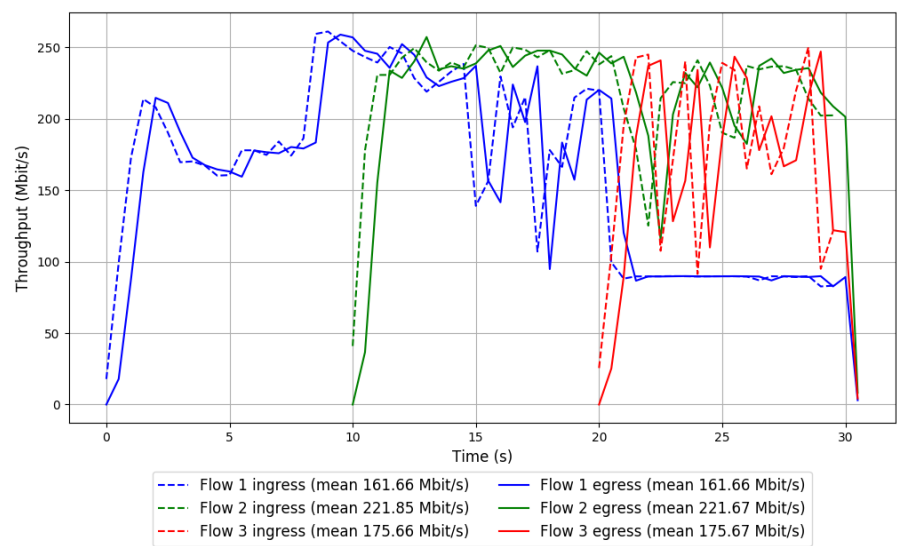


Run 8: Statistics of TaoVA-100x

Start at: 2018-06-01 12:49:06
End at: 2018-06-01 12:49:36
Local clock offset: 1.154 ms
Remote clock offset: -0.077 ms

Below is generated by plot.py at 2018-06-01 16:27:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 367.59 Mbit/s
95th percentile per-packet one-way delay: 62.712 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 161.66 Mbit/s
95th percentile per-packet one-way delay: 56.698 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 221.67 Mbit/s
95th percentile per-packet one-way delay: 62.678 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 175.67 Mbit/s
95th percentile per-packet one-way delay: 69.504 ms
Loss rate: 0.00%

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

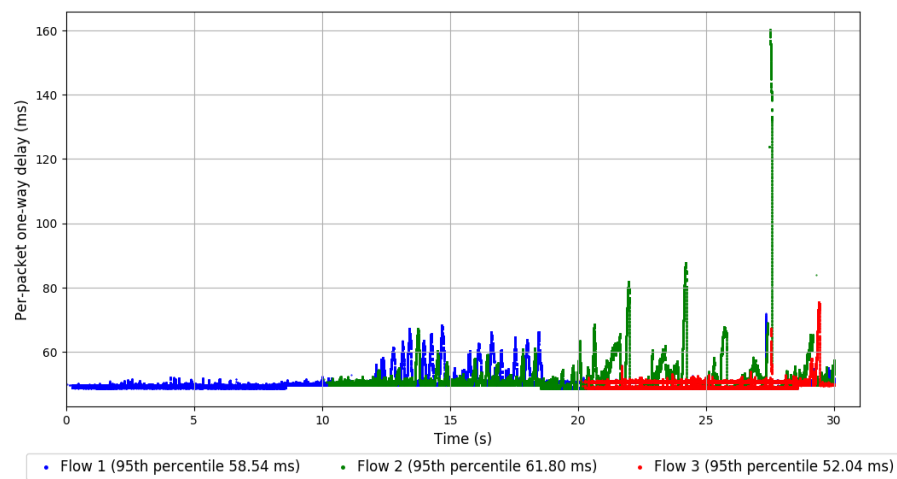
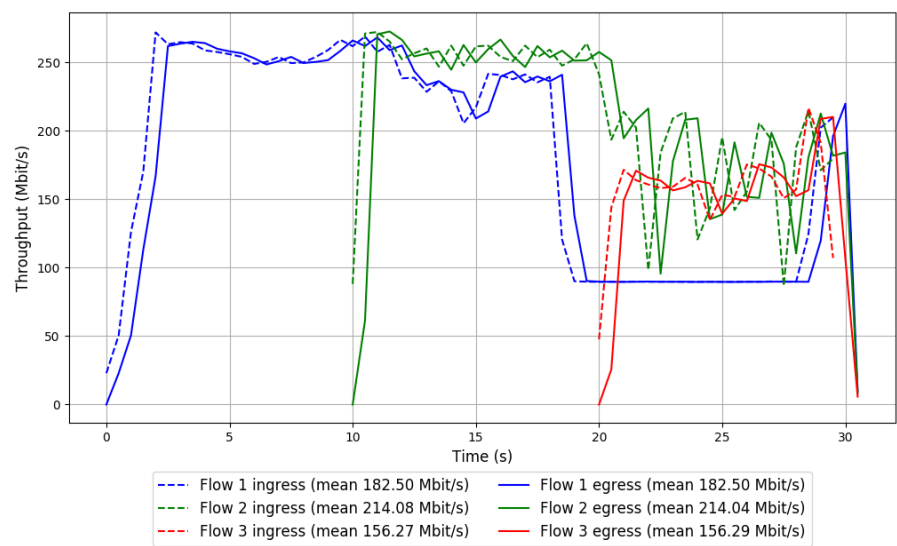


Run 9: Statistics of TaoVA-100x

Start at: 2018-06-01 13:11:56
End at: 2018-06-01 13:12:26
Local clock offset: 1.092 ms
Remote clock offset: -0.083 ms

Below is generated by plot.py at 2018-06-01 16:31:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 376.91 Mbit/s
95th percentile per-packet one-way delay: 59.517 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 182.50 Mbit/s
95th percentile per-packet one-way delay: 58.543 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 214.04 Mbit/s
95th percentile per-packet one-way delay: 61.796 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 156.29 Mbit/s
95th percentile per-packet one-way delay: 52.039 ms
Loss rate: 0.00%

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

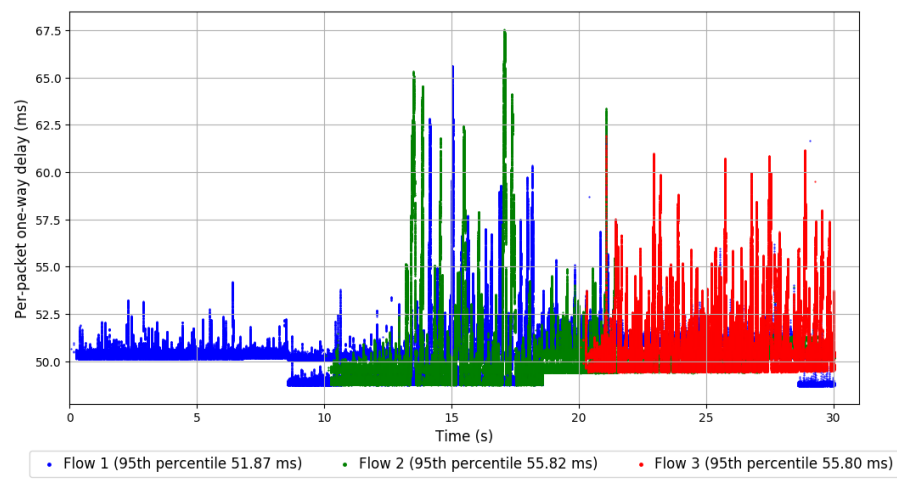
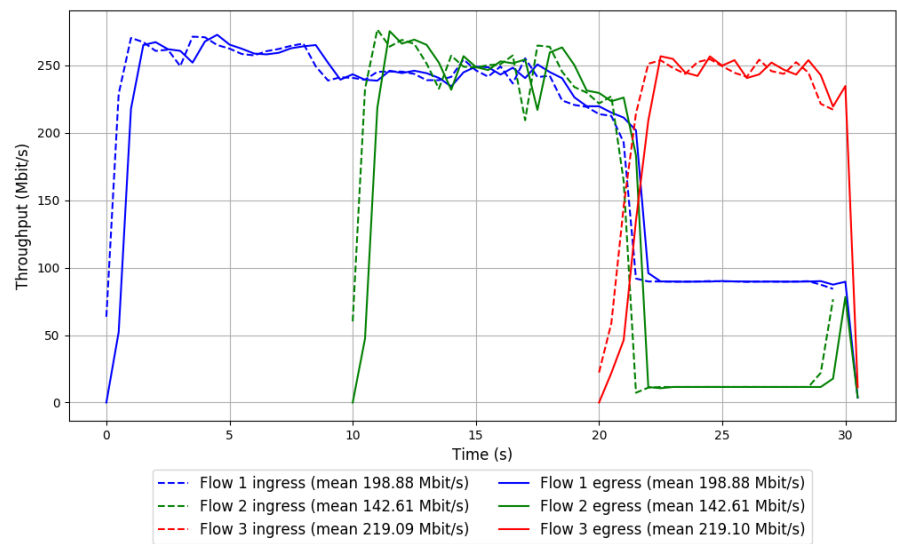


Run 10: Statistics of TaoVA-100x

Start at: 2018-06-01 13:34:56
End at: 2018-06-01 13:35:26
Local clock offset: 0.7 ms
Remote clock offset: -0.076 ms

Below is generated by plot.py at 2018-06-01 16:31:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 366.59 Mbit/s
95th percentile per-packet one-way delay: 54.245 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 198.88 Mbit/s
95th percentile per-packet one-way delay: 51.867 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 142.61 Mbit/s
95th percentile per-packet one-way delay: 55.817 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 219.10 Mbit/s
95th percentile per-packet one-way delay: 55.805 ms
Loss rate: 0.00%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-06-01 10:10:59

End at: 2018-06-01 10:11:29

Local clock offset: -0.037 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2018-06-01 16:31:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 308.61 Mbit/s

95th percentile per-packet one-way delay: 59.090 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 219.82 Mbit/s

95th percentile per-packet one-way delay: 59.055 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 23.70 Mbit/s

95th percentile per-packet one-way delay: 56.060 ms

Loss rate: 0.00%

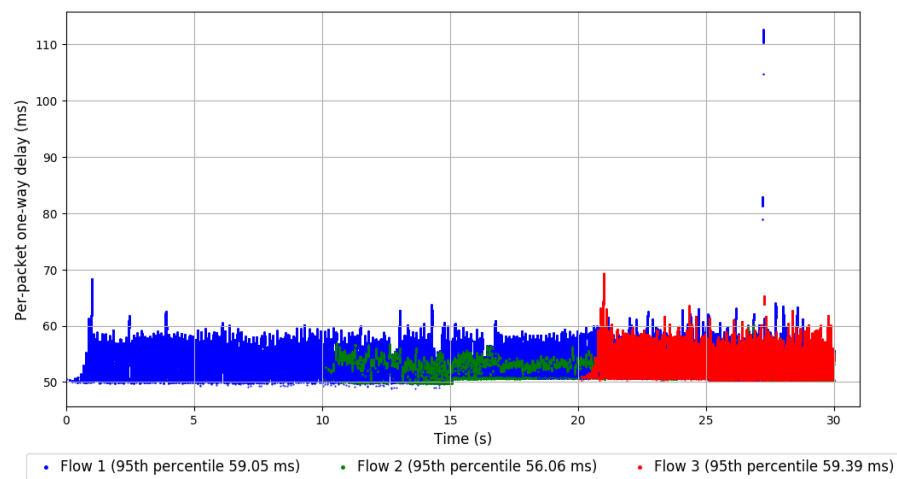
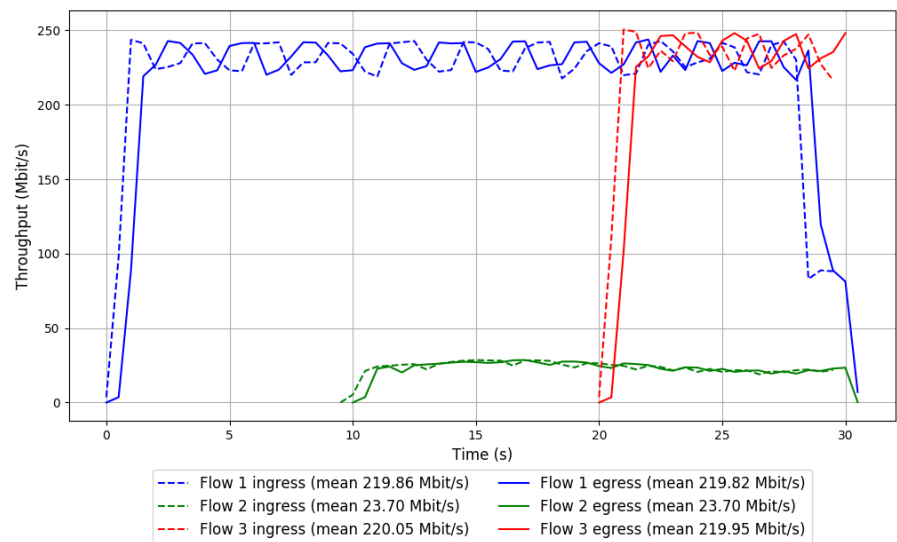
-- Flow 3:

Average throughput: 219.95 Mbit/s

95th percentile per-packet one-way delay: 59.393 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link

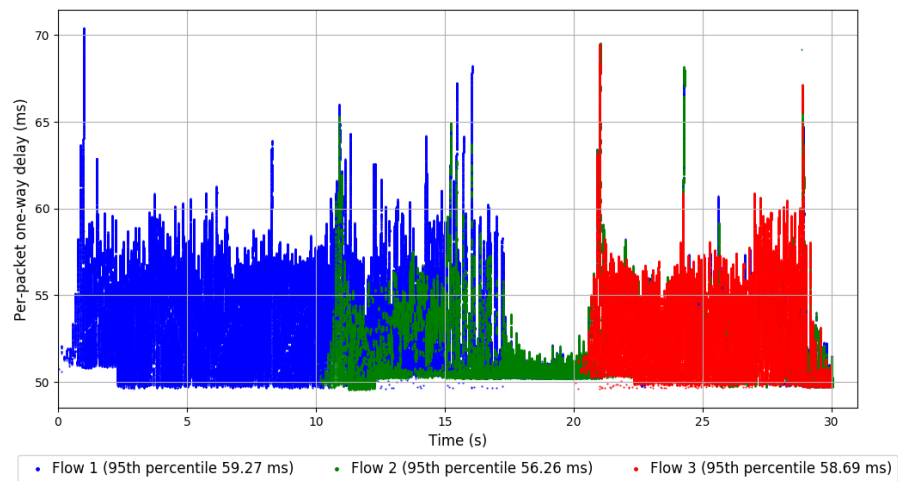
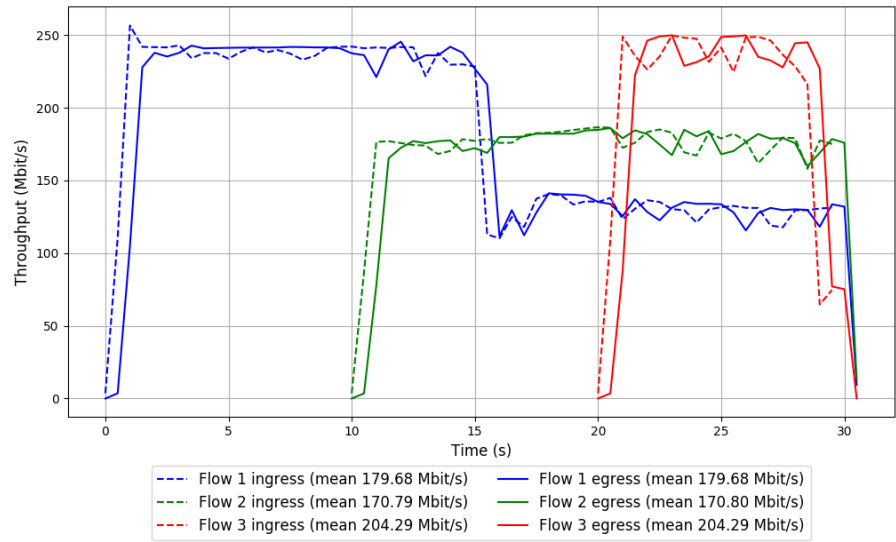


Run 2: Statistics of TCP Vegas

Start at: 2018-06-01 10:34:22
End at: 2018-06-01 10:34:52
Local clock offset: -0.033 ms
Remote clock offset: 0.041 ms

Below is generated by plot.py at 2018-06-01 16:31:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 361.21 Mbit/s
95th percentile per-packet one-way delay: 58.765 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 179.68 Mbit/s
95th percentile per-packet one-way delay: 59.272 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 170.80 Mbit/s
95th percentile per-packet one-way delay: 56.262 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 204.29 Mbit/s
95th percentile per-packet one-way delay: 58.688 ms
Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link

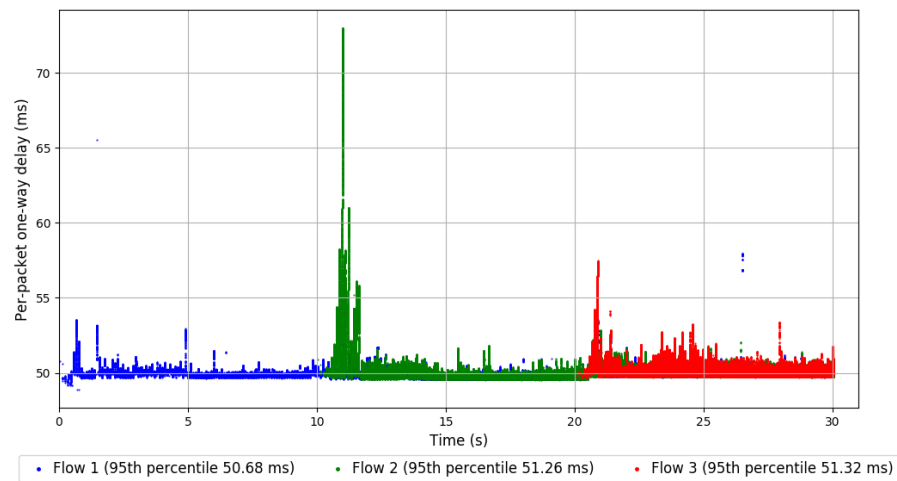
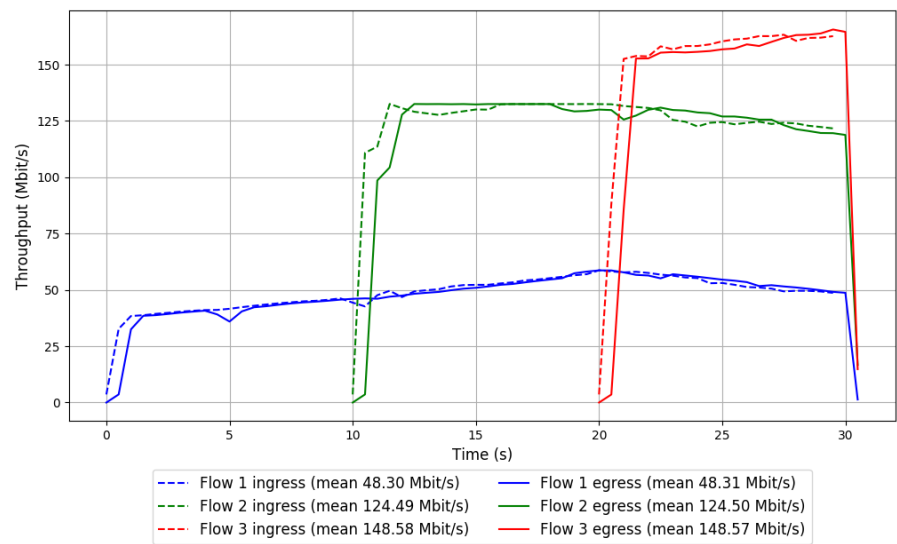


Run 3: Statistics of TCP Vegas

Start at: 2018-06-01 10:57:54
End at: 2018-06-01 10:58:24
Local clock offset: -0.028 ms
Remote clock offset: -0.031 ms

Below is generated by plot.py at 2018-06-01 16:31:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 180.62 Mbit/s
95th percentile per-packet one-way delay: 51.143 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.31 Mbit/s
95th percentile per-packet one-way delay: 50.684 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 124.50 Mbit/s
95th percentile per-packet one-way delay: 51.259 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 148.57 Mbit/s
95th percentile per-packet one-way delay: 51.324 ms
Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-06-01 11:21:08

End at: 2018-06-01 11:21:38

Local clock offset: 0.328 ms

Remote clock offset: -0.08 ms

Below is generated by plot.py at 2018-06-01 16:31:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 149.18 Mbit/s

95th percentile per-packet one-way delay: 51.068 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 74.12 Mbit/s

95th percentile per-packet one-way delay: 51.174 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 89.77 Mbit/s

95th percentile per-packet one-way delay: 51.050 ms

Loss rate: 0.00%

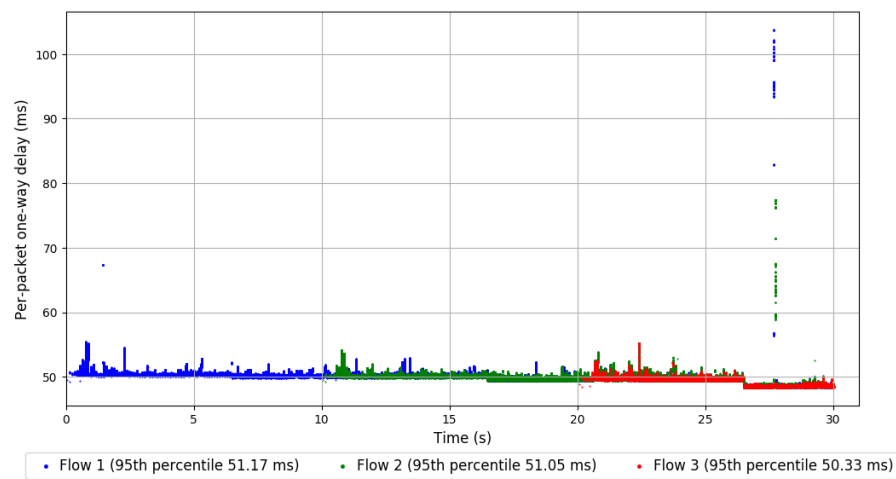
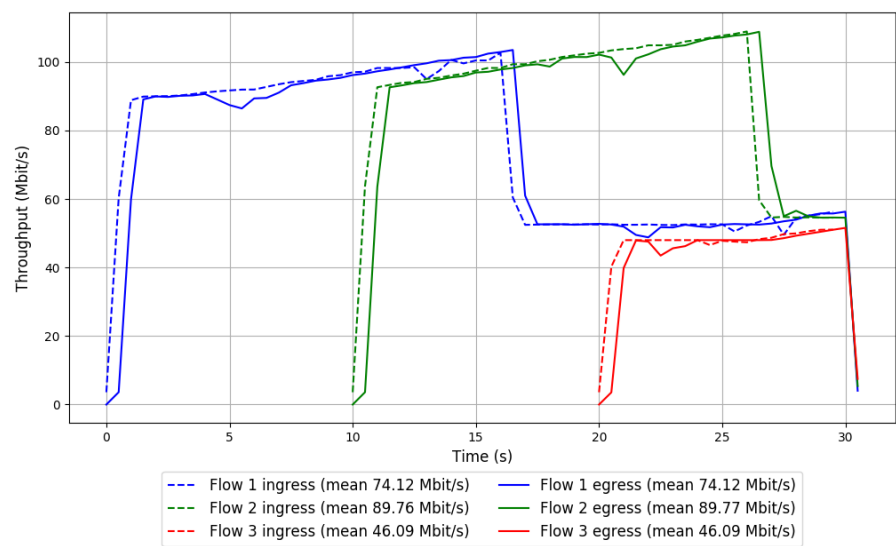
-- Flow 3:

Average throughput: 46.09 Mbit/s

95th percentile per-packet one-way delay: 50.330 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link

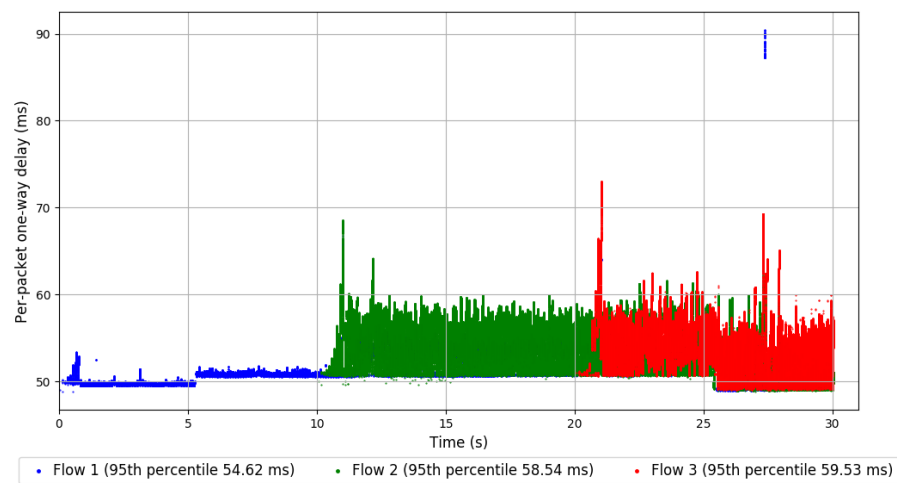
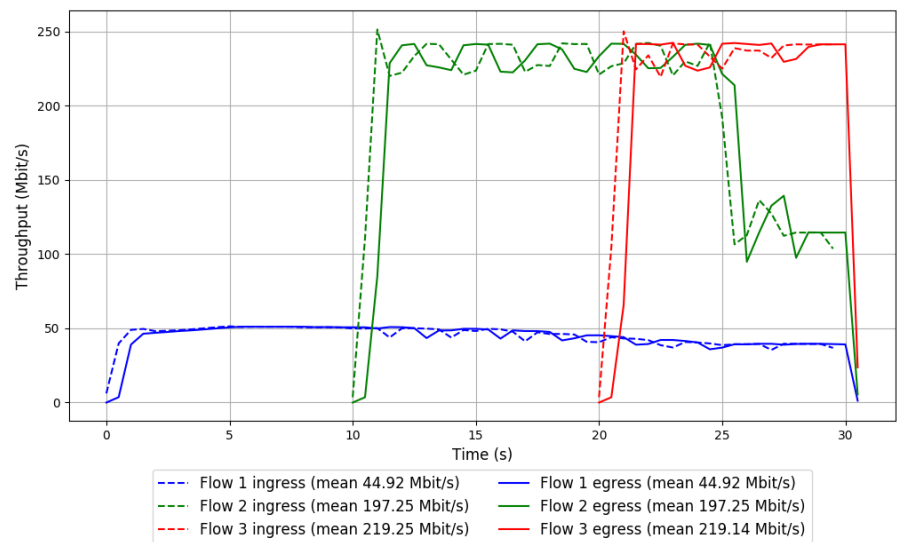


Run 5: Statistics of TCP Vegas

Start at: 2018-06-01 11:44:19
End at: 2018-06-01 11:44:49
Local clock offset: -0.041 ms
Remote clock offset: -0.115 ms

Below is generated by plot.py at 2018-06-01 16:31:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 249.16 Mbit/s
95th percentile per-packet one-way delay: 58.530 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.92 Mbit/s
95th percentile per-packet one-way delay: 54.623 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 197.25 Mbit/s
95th percentile per-packet one-way delay: 58.537 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 219.14 Mbit/s
95th percentile per-packet one-way delay: 59.535 ms
Loss rate: 0.01%

Run 5: Report of TCP Vegas — Data Link

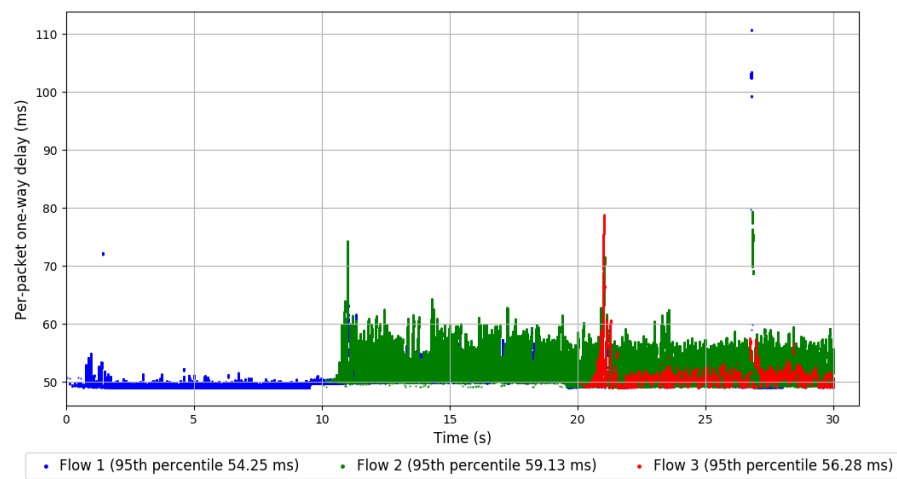
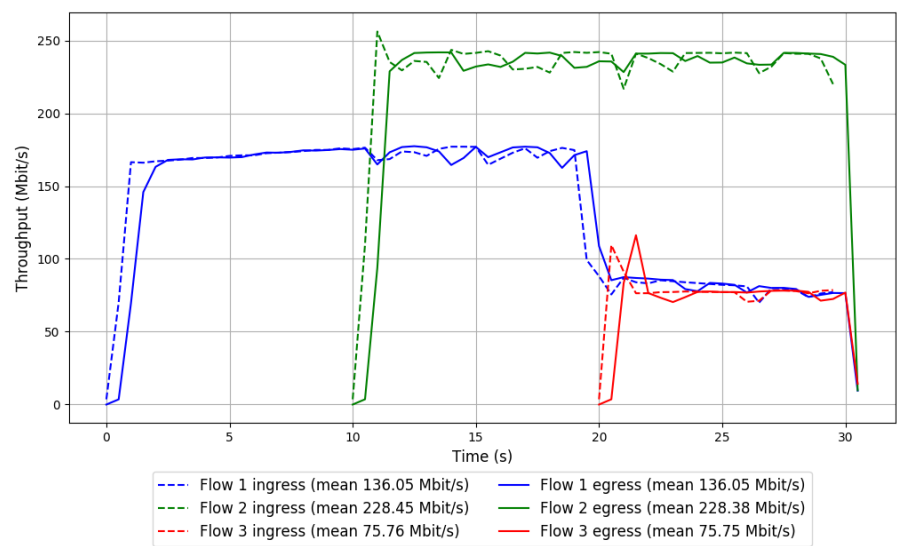


Run 6: Statistics of TCP Vegas

Start at: 2018-06-01 12:07:25
End at: 2018-06-01 12:07:55
Local clock offset: -0.021 ms
Remote clock offset: -0.044 ms

Below is generated by plot.py at 2018-06-01 16:31:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 313.22 Mbit/s
95th percentile per-packet one-way delay: 58.074 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 136.05 Mbit/s
95th percentile per-packet one-way delay: 54.253 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 228.38 Mbit/s
95th percentile per-packet one-way delay: 59.129 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 75.75 Mbit/s
95th percentile per-packet one-way delay: 56.278 ms
Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link

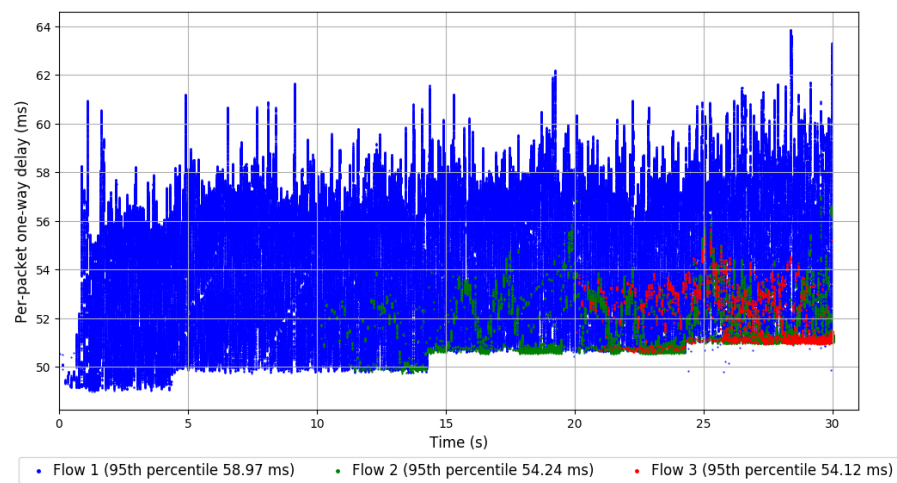
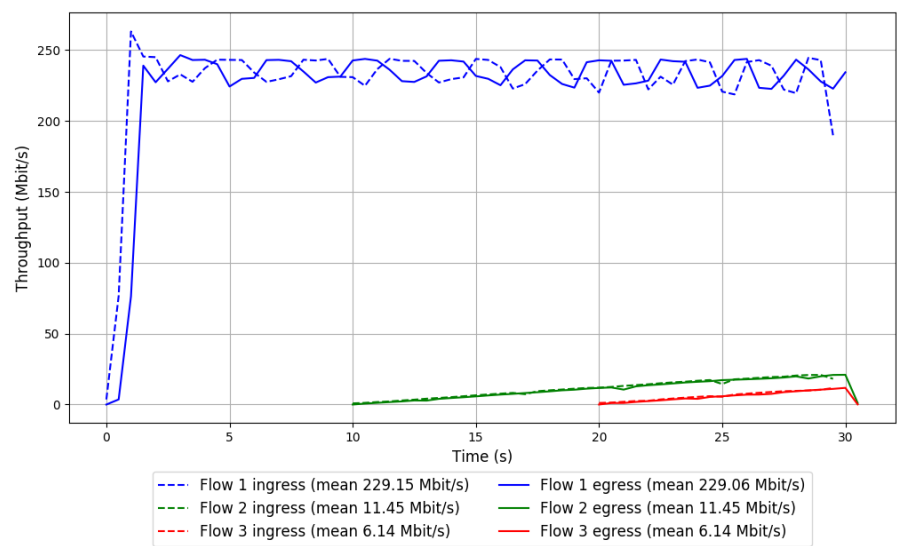


Run 7: Statistics of TCP Vegas

Start at: 2018-06-01 12:30:40
End at: 2018-06-01 12:31:10
Local clock offset: 0.018 ms
Remote clock offset: -0.08 ms

Below is generated by plot.py at 2018-06-01 16:31:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 238.29 Mbit/s
95th percentile per-packet one-way delay: 58.924 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 229.06 Mbit/s
95th percentile per-packet one-way delay: 58.970 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.45 Mbit/s
95th percentile per-packet one-way delay: 54.237 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 6.14 Mbit/s
95th percentile per-packet one-way delay: 54.125 ms
Loss rate: 0.02%

Run 7: Report of TCP Vegas — Data Link

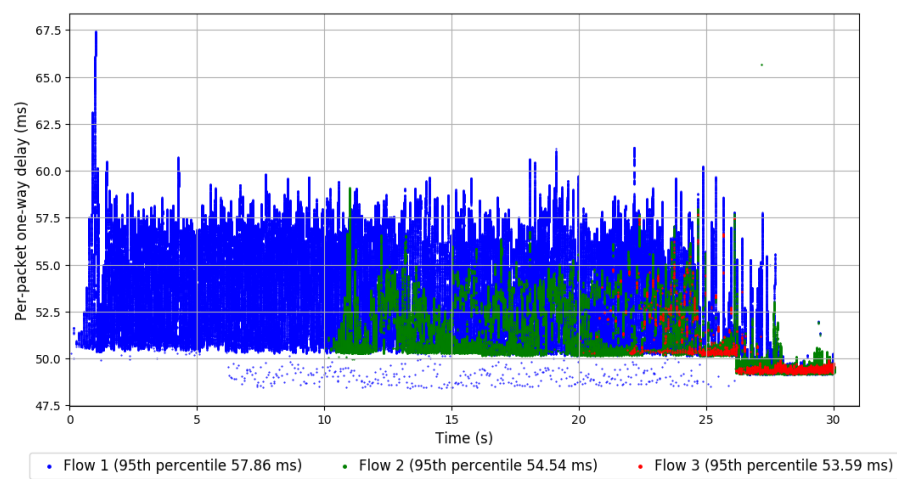
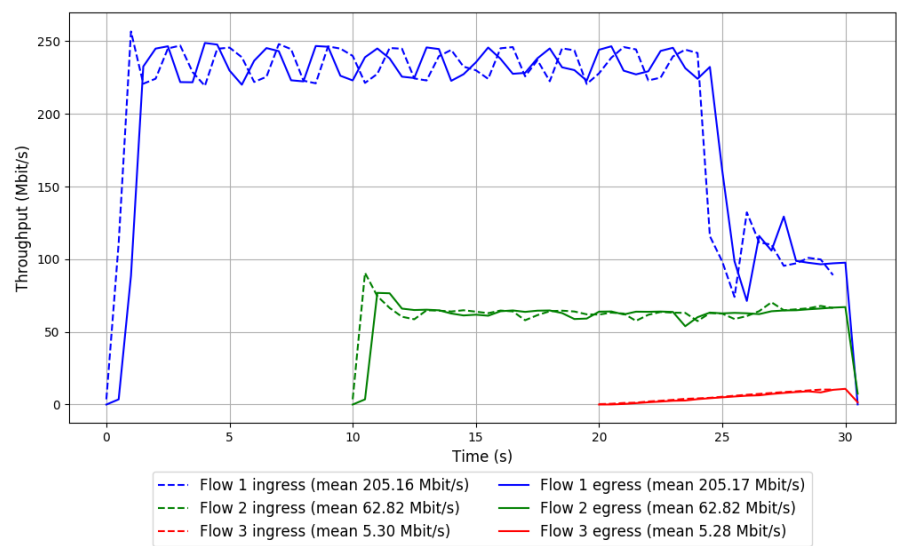


Run 8: Statistics of TCP Vegas

Start at: 2018-06-01 12:53:48
End at: 2018-06-01 12:54:18
Local clock offset: 1.806 ms
Remote clock offset: -0.109 ms

Below is generated by plot.py at 2018-06-01 16:31:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 248.73 Mbit/s
95th percentile per-packet one-way delay: 57.693 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 205.17 Mbit/s
95th percentile per-packet one-way delay: 57.856 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 62.82 Mbit/s
95th percentile per-packet one-way delay: 54.544 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.28 Mbit/s
95th percentile per-packet one-way delay: 53.592 ms
Loss rate: 0.23%

Run 8: Report of TCP Vegas — Data Link

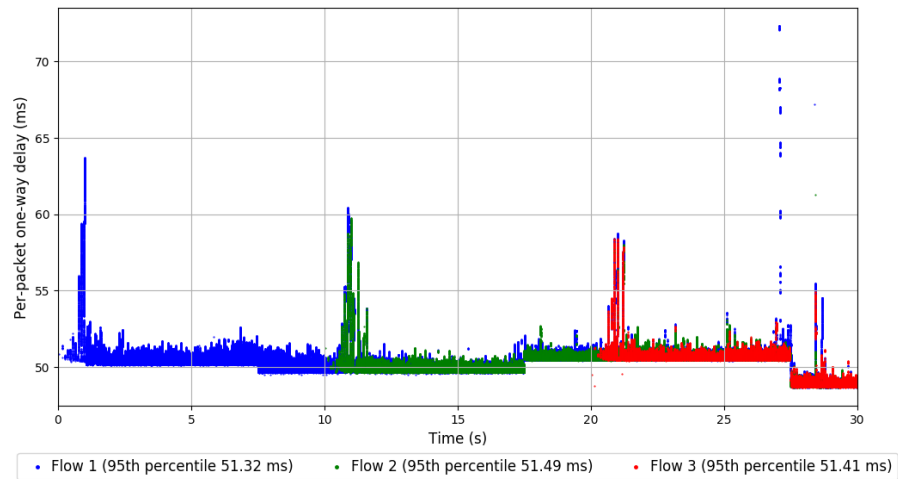
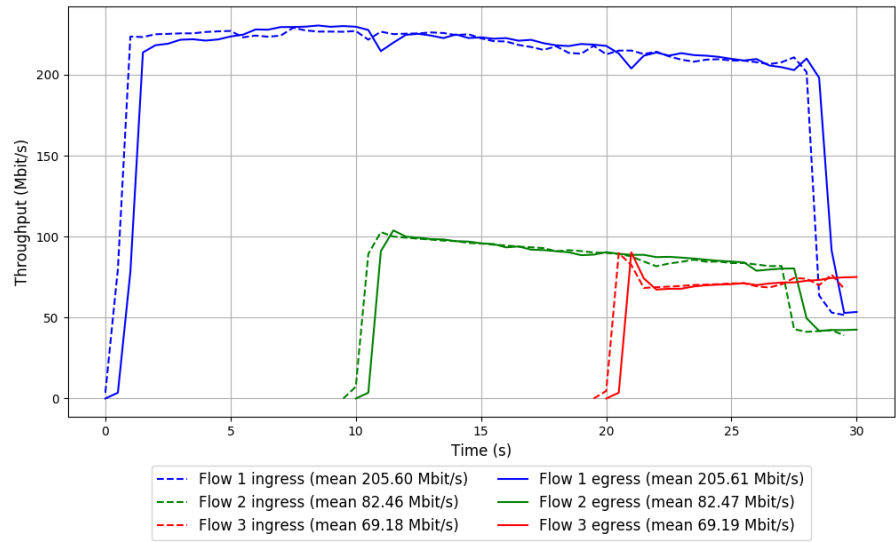


Run 9: Statistics of TCP Vegas

Start at: 2018-06-01 13:16:37
End at: 2018-06-01 13:17:07
Local clock offset: 0.768 ms
Remote clock offset: -0.093 ms

Below is generated by plot.py at 2018-06-01 16:32:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 283.46 Mbit/s
95th percentile per-packet one-way delay: 51.360 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 205.61 Mbit/s
95th percentile per-packet one-way delay: 51.316 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 82.47 Mbit/s
95th percentile per-packet one-way delay: 51.493 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 69.19 Mbit/s
95th percentile per-packet one-way delay: 51.411 ms
Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link

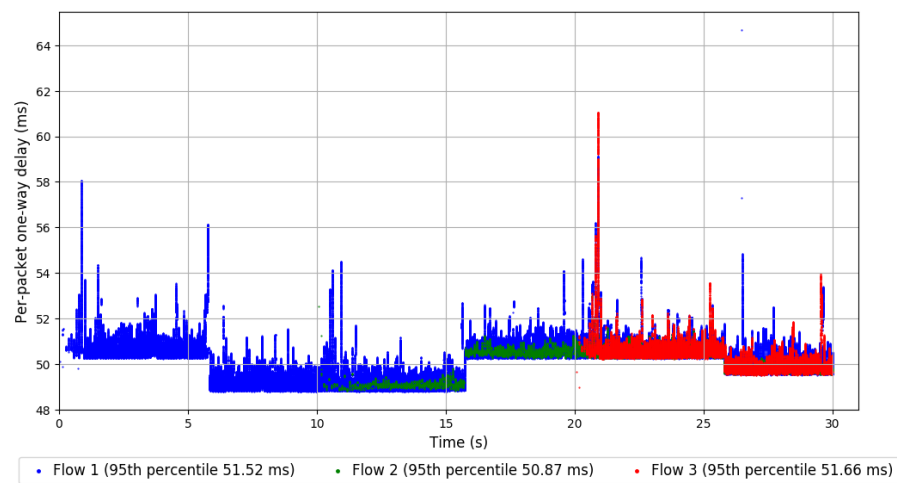
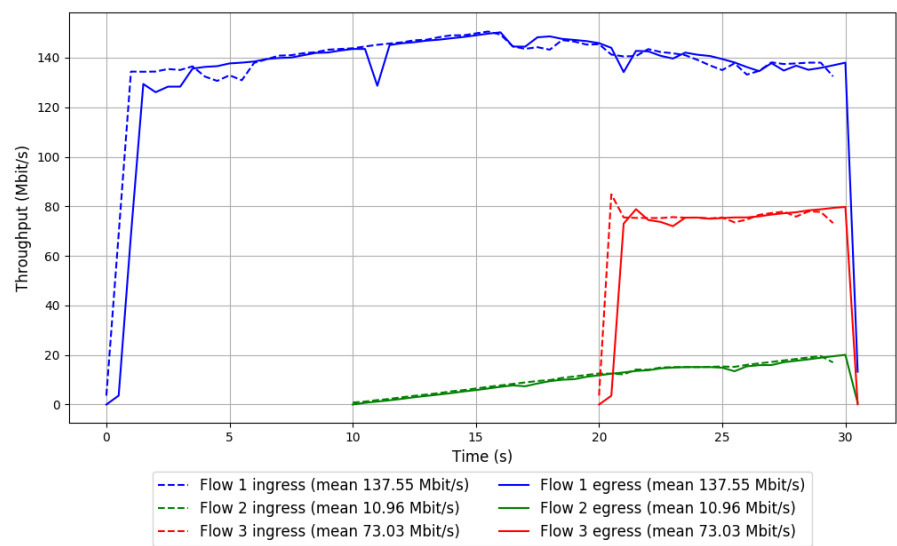


Run 10: Statistics of TCP Vegas

Start at: 2018-06-01 13:39:39
End at: 2018-06-01 13:40:09
Local clock offset: 0.776 ms
Remote clock offset: -0.001 ms

Below is generated by plot.py at 2018-06-01 16:32:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 169.07 Mbit/s
95th percentile per-packet one-way delay: 51.500 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 137.55 Mbit/s
95th percentile per-packet one-way delay: 51.522 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 10.96 Mbit/s
95th percentile per-packet one-way delay: 50.869 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 73.03 Mbit/s
95th percentile per-packet one-way delay: 51.661 ms
Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-06-01 10:13:48

End at: 2018-06-01 10:14:18

Local clock offset: -0.032 ms

Remote clock offset: 0.042 ms

Below is generated by plot.py at 2018-06-01 16:37:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 432.76 Mbit/s

95th percentile per-packet one-way delay: 165.792 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 260.97 Mbit/s

95th percentile per-packet one-way delay: 131.362 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 212.97 Mbit/s

95th percentile per-packet one-way delay: 152.641 ms

Loss rate: 0.67%

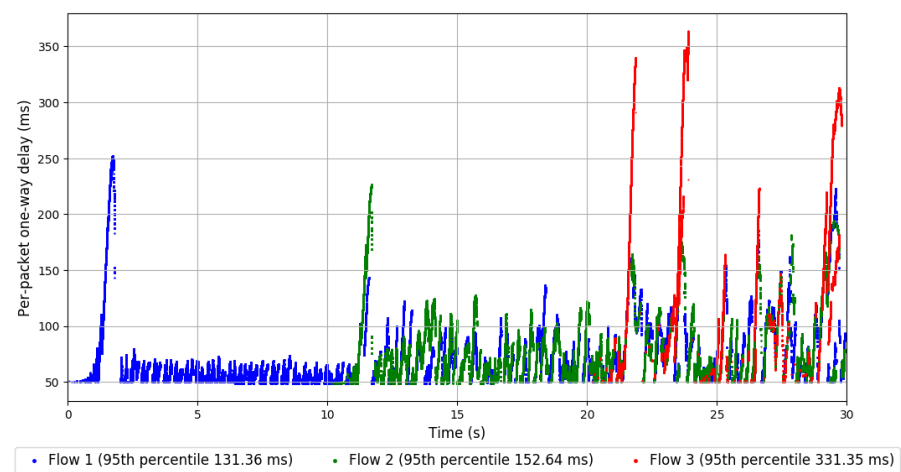
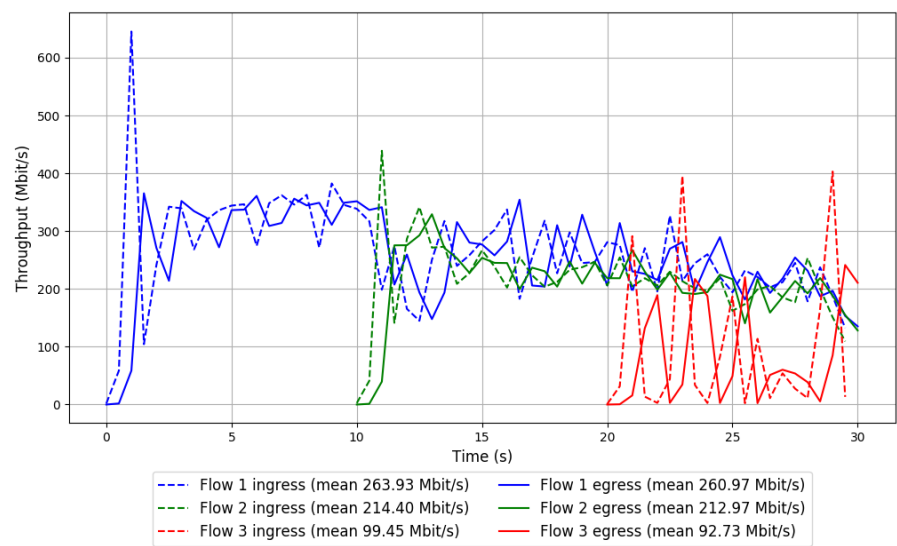
-- Flow 3:

Average throughput: 92.73 Mbit/s

95th percentile per-packet one-way delay: 331.346 ms

Loss rate: 4.58%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-06-01 10:37:18

End at: 2018-06-01 10:37:48

Local clock offset: 0.341 ms

Remote clock offset: 0.029 ms

Below is generated by plot.py at 2018-06-01 16:38:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 395.68 Mbit/s

95th percentile per-packet one-way delay: 129.696 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 222.20 Mbit/s

95th percentile per-packet one-way delay: 141.052 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 160.13 Mbit/s

95th percentile per-packet one-way delay: 115.163 ms

Loss rate: 0.05%

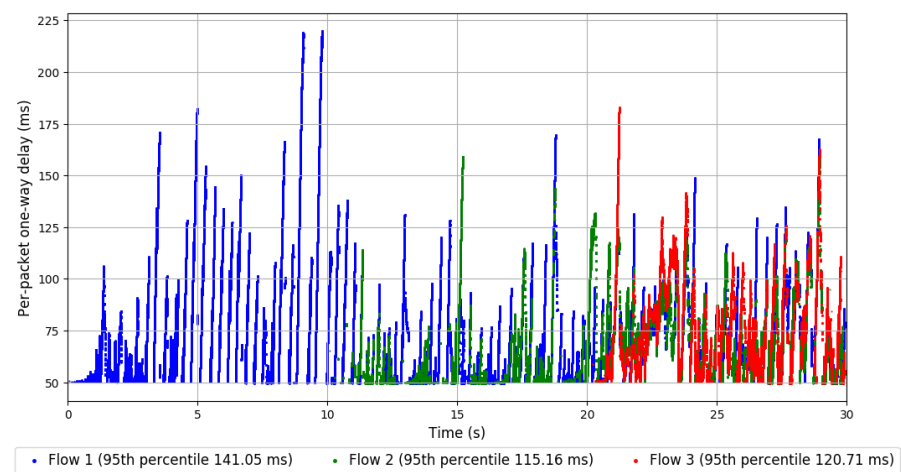
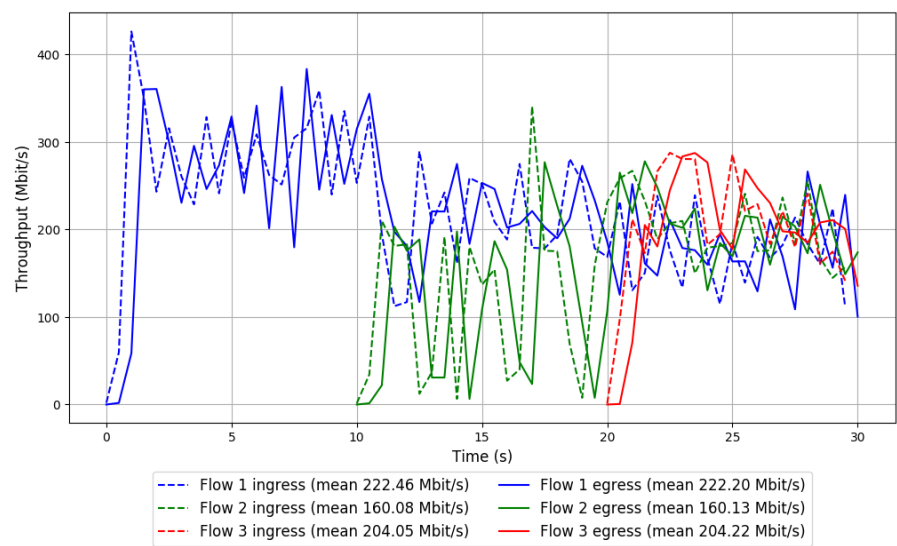
-- Flow 3:

Average throughput: 204.22 Mbit/s

95th percentile per-packet one-way delay: 120.713 ms

Loss rate: 0.18%

Run 2: Report of Verus — Data Link

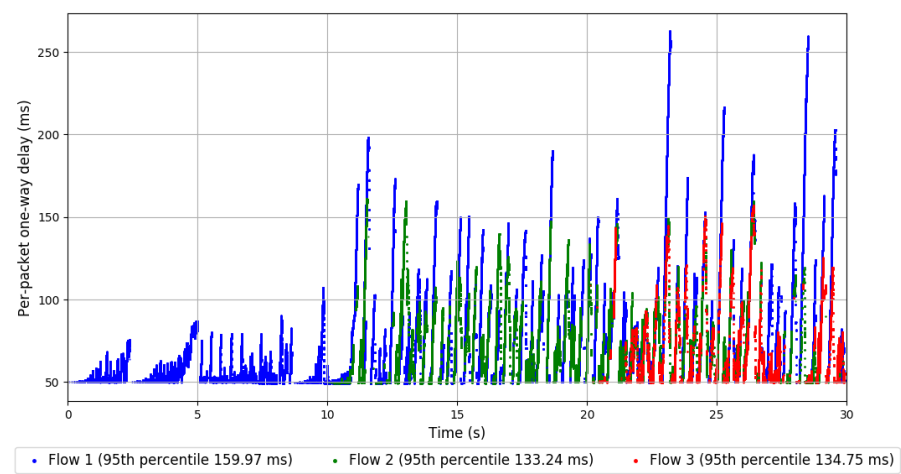
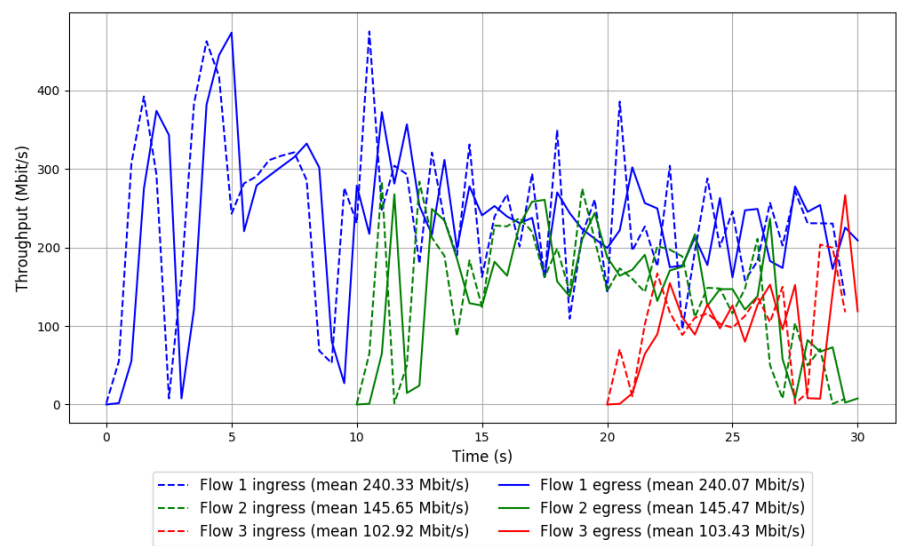


Run 3: Statistics of Verus

Start at: 2018-06-01 11:00:37
End at: 2018-06-01 11:01:07
Local clock offset: -0.052 ms
Remote clock offset: -0.014 ms

Below is generated by plot.py at 2018-06-01 16:38:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 370.39 Mbit/s
95th percentile per-packet one-way delay: 148.411 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 240.07 Mbit/s
95th percentile per-packet one-way delay: 159.975 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 145.47 Mbit/s
95th percentile per-packet one-way delay: 133.238 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 103.43 Mbit/s
95th percentile per-packet one-way delay: 134.750 ms
Loss rate: 0.06%

Run 3: Report of Verus — Data Link

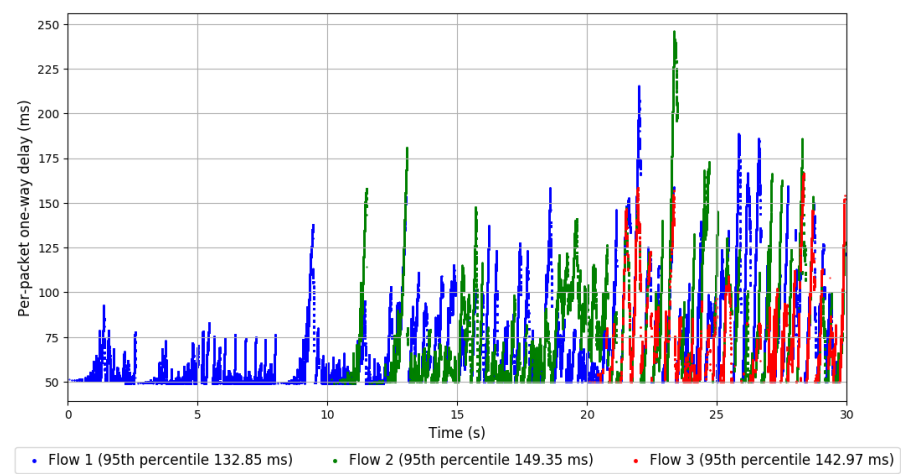
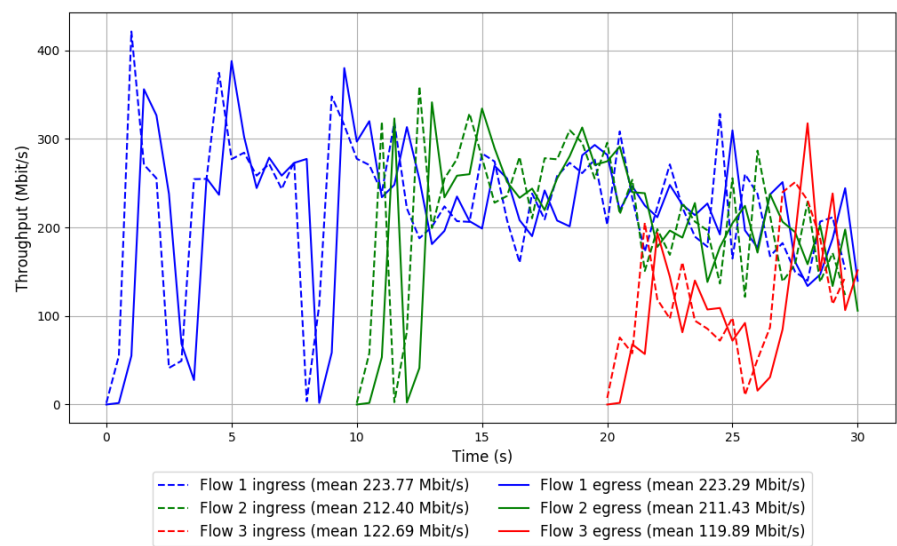


Run 4: Statistics of Verus

Start at: 2018-06-01 11:23:42
End at: 2018-06-01 11:24:12
Local clock offset: -0.373 ms
Remote clock offset: -0.065 ms

Below is generated by plot.py at 2018-06-01 16:39:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 403.26 Mbit/s
95th percentile per-packet one-way delay: 140.059 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 223.29 Mbit/s
95th percentile per-packet one-way delay: 132.852 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 211.43 Mbit/s
95th percentile per-packet one-way delay: 149.351 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 119.89 Mbit/s
95th percentile per-packet one-way delay: 142.975 ms
Loss rate: 1.41%

Run 4: Report of Verus — Data Link

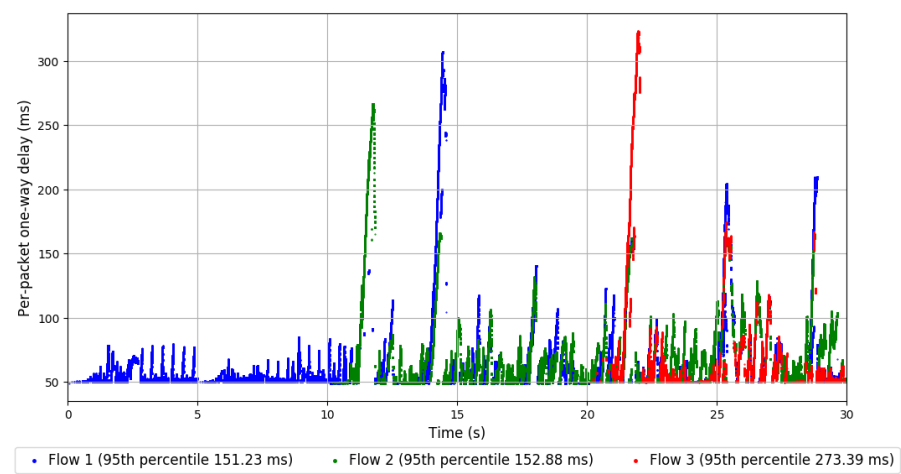
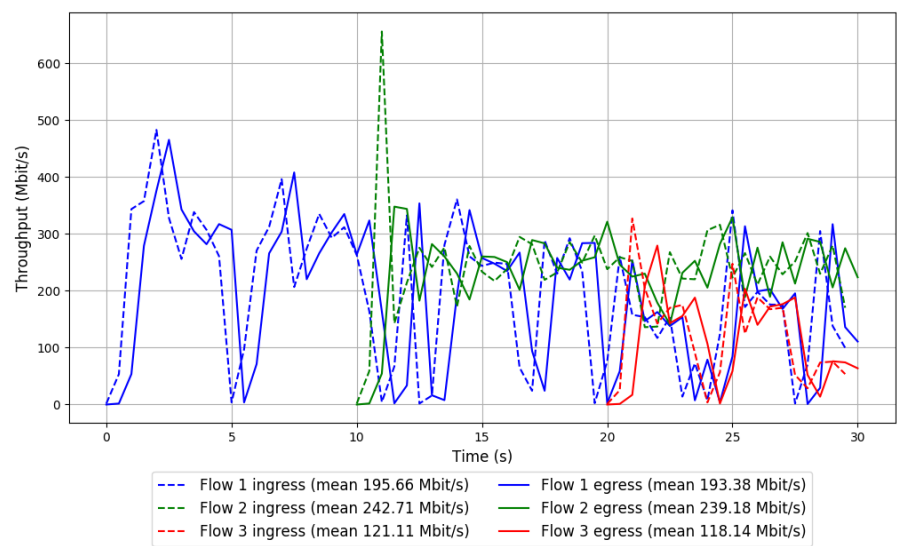


Run 5: Statistics of Verus

Start at: 2018-06-01 11:47:04
End at: 2018-06-01 11:47:34
Local clock offset: 0.357 ms
Remote clock offset: -0.092 ms

Below is generated by plot.py at 2018-06-01 16:39:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 390.85 Mbit/s
95th percentile per-packet one-way delay: 160.017 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 193.38 Mbit/s
95th percentile per-packet one-way delay: 151.234 ms
Loss rate: 1.13%
-- Flow 2:
Average throughput: 239.18 Mbit/s
95th percentile per-packet one-way delay: 152.883 ms
Loss rate: 1.50%
-- Flow 3:
Average throughput: 118.14 Mbit/s
95th percentile per-packet one-way delay: 273.386 ms
Loss rate: 2.45%

Run 5: Report of Verus — Data Link

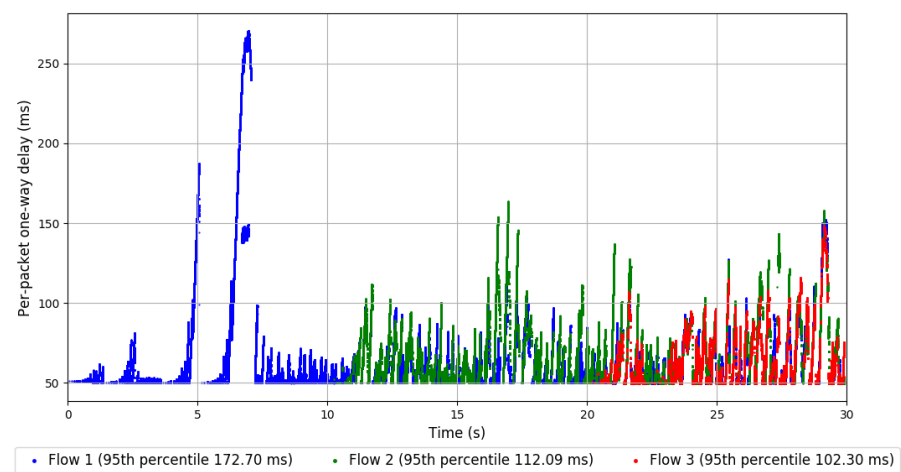
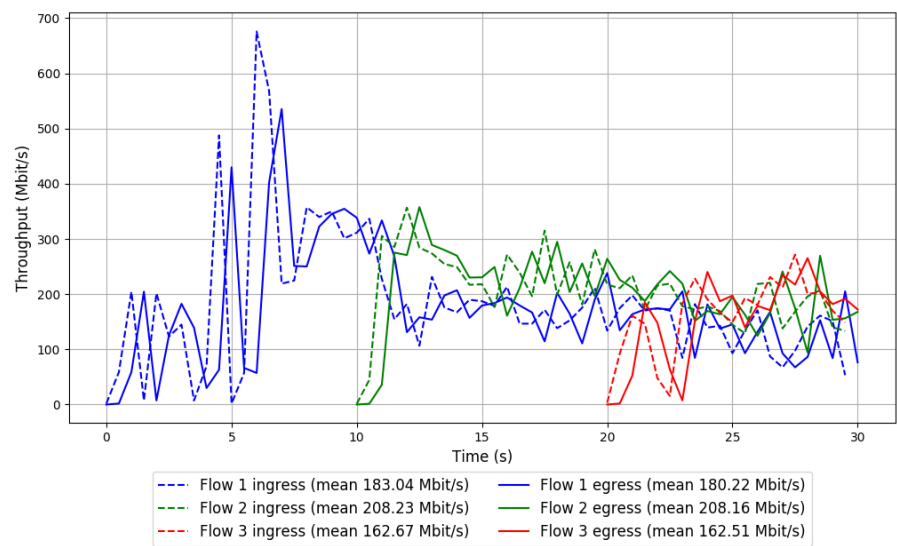


Run 6: Statistics of Verus

Start at: 2018-06-01 12:10:14
End at: 2018-06-01 12:10:44
Local clock offset: 0.006 ms
Remote clock offset: -0.072 ms

Below is generated by plot.py at 2018-06-01 16:39:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 370.93 Mbit/s
95th percentile per-packet one-way delay: 132.353 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 180.22 Mbit/s
95th percentile per-packet one-way delay: 172.701 ms
Loss rate: 2.15%
-- Flow 2:
Average throughput: 208.16 Mbit/s
95th percentile per-packet one-way delay: 112.086 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 162.51 Mbit/s
95th percentile per-packet one-way delay: 102.300 ms
Loss rate: 0.07%

Run 6: Report of Verus — Data Link

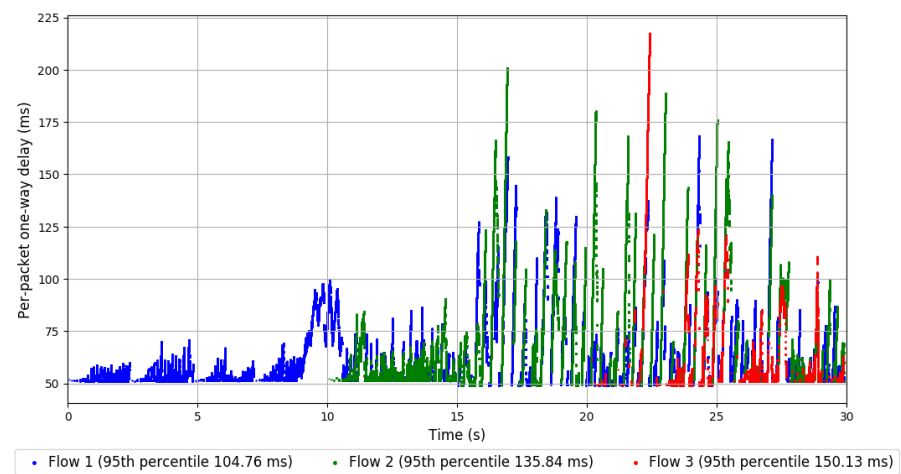
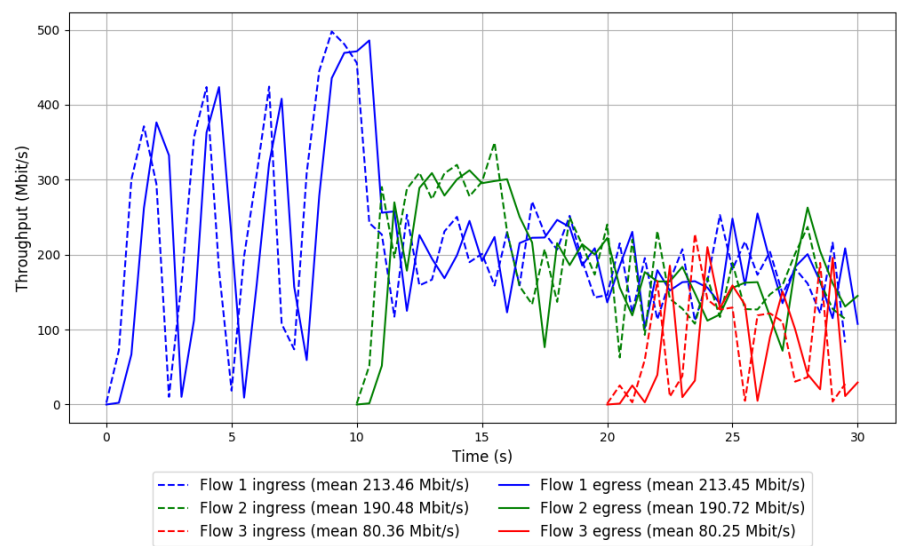


Run 7: Statistics of Verus

Start at: 2018-06-01 12:33:20
End at: 2018-06-01 12:33:50
Local clock offset: -0.116 ms
Remote clock offset: -0.079 ms

Below is generated by plot.py at 2018-06-01 16:39:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 366.51 Mbit/s
95th percentile per-packet one-way delay: 122.596 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 213.45 Mbit/s
95th percentile per-packet one-way delay: 104.758 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 190.72 Mbit/s
95th percentile per-packet one-way delay: 135.844 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 80.25 Mbit/s
95th percentile per-packet one-way delay: 150.133 ms
Loss rate: 0.00%

Run 7: Report of Verus — Data Link

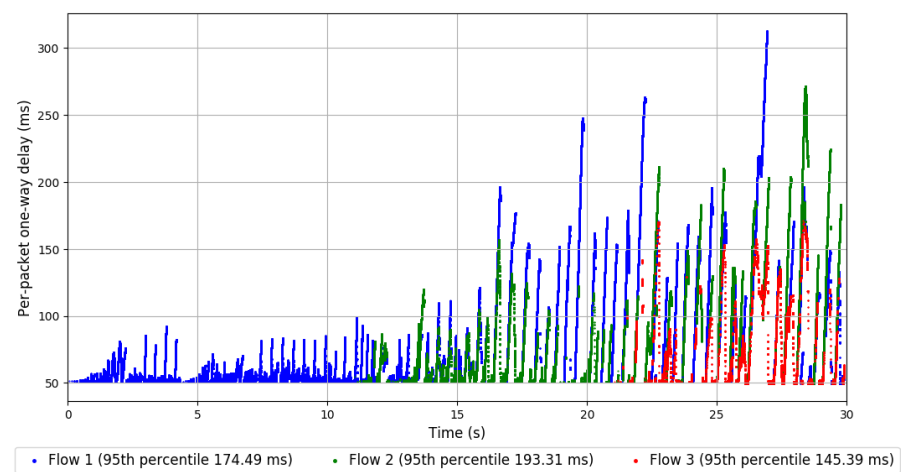
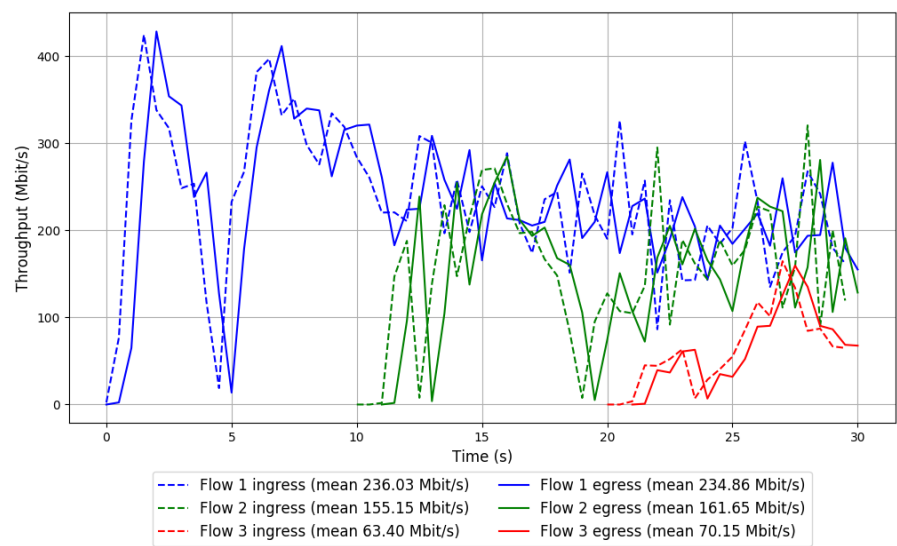


Run 8: Statistics of Verus

Start at: 2018-06-01 12:56:29
End at: 2018-06-01 12:56:59
Local clock offset: 1.645 ms
Remote clock offset: -0.078 ms

Below is generated by plot.py at 2018-06-01 16:39:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 356.91 Mbit/s
95th percentile per-packet one-way delay: 180.076 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 234.86 Mbit/s
95th percentile per-packet one-way delay: 174.494 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 161.65 Mbit/s
95th percentile per-packet one-way delay: 193.308 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 70.15 Mbit/s
95th percentile per-packet one-way delay: 145.391 ms
Loss rate: 0.55%

Run 8: Report of Verus — Data Link

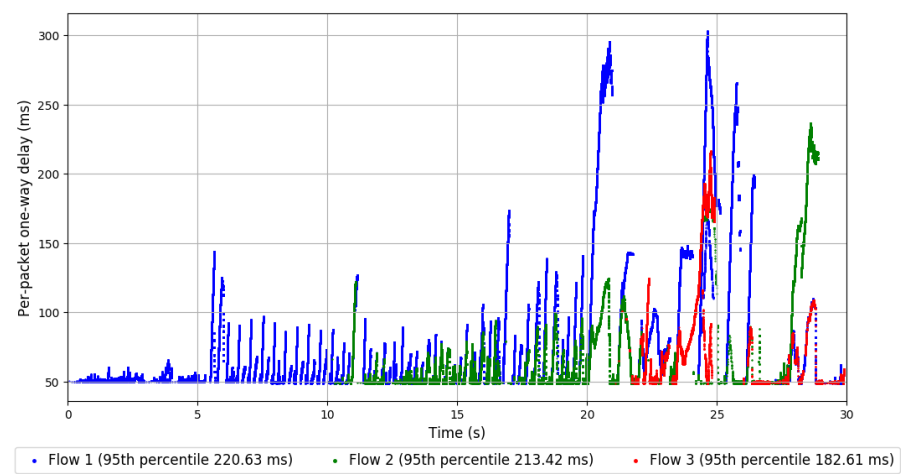
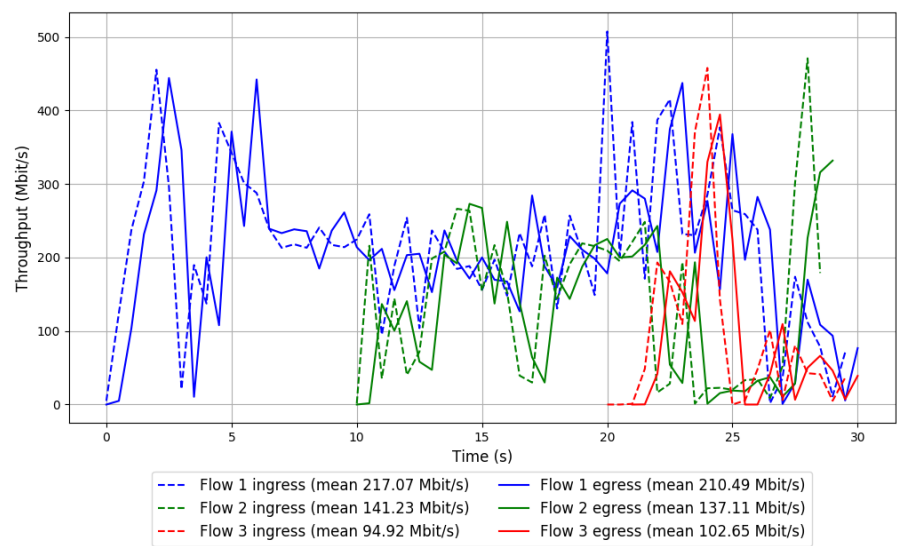


Run 9: Statistics of Verus

Start at: 2018-06-01 13:19:17
End at: 2018-06-01 13:19:47
Local clock offset: 0.65 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2018-06-01 16:43:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 327.24 Mbit/s
95th percentile per-packet one-way delay: 210.942 ms
Loss rate: 2.74%
-- Flow 1:
Average throughput: 210.49 Mbit/s
95th percentile per-packet one-way delay: 220.628 ms
Loss rate: 3.01%
-- Flow 2:
Average throughput: 137.11 Mbit/s
95th percentile per-packet one-way delay: 213.416 ms
Loss rate: 2.07%
-- Flow 3:
Average throughput: 102.65 Mbit/s
95th percentile per-packet one-way delay: 182.610 ms
Loss rate: 2.80%

Run 9: Report of Verus — Data Link

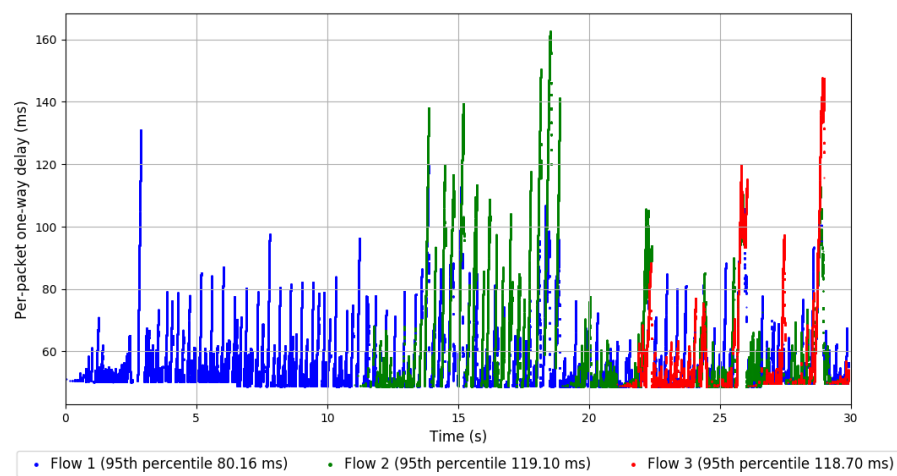
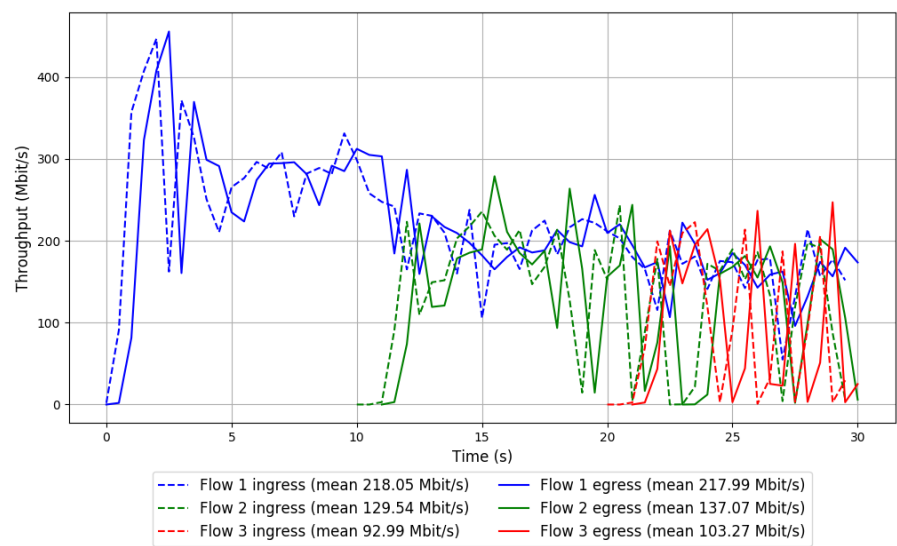


Run 10: Statistics of Verus

Start at: 2018-06-01 13:42:18
End at: 2018-06-01 13:42:48
Local clock offset: 0.776 ms
Remote clock offset: -0.053 ms

Below is generated by plot.py at 2018-06-01 16:44:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 334.68 Mbit/s
95th percentile per-packet one-way delay: 100.113 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 217.99 Mbit/s
95th percentile per-packet one-way delay: 80.156 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 137.07 Mbit/s
95th percentile per-packet one-way delay: 119.099 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 103.27 Mbit/s
95th percentile per-packet one-way delay: 118.699 ms
Loss rate: 0.25%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-06-01 10:19:32

End at: 2018-06-01 10:20:02

Local clock offset: 0.336 ms

Remote clock offset: 0.039 ms

Below is generated by plot.py at 2018-06-01 16:50:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 574.13 Mbit/s

95th percentile per-packet one-way delay: 194.036 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 314.85 Mbit/s

95th percentile per-packet one-way delay: 57.379 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 269.46 Mbit/s

95th percentile per-packet one-way delay: 54.961 ms

Loss rate: 0.00%

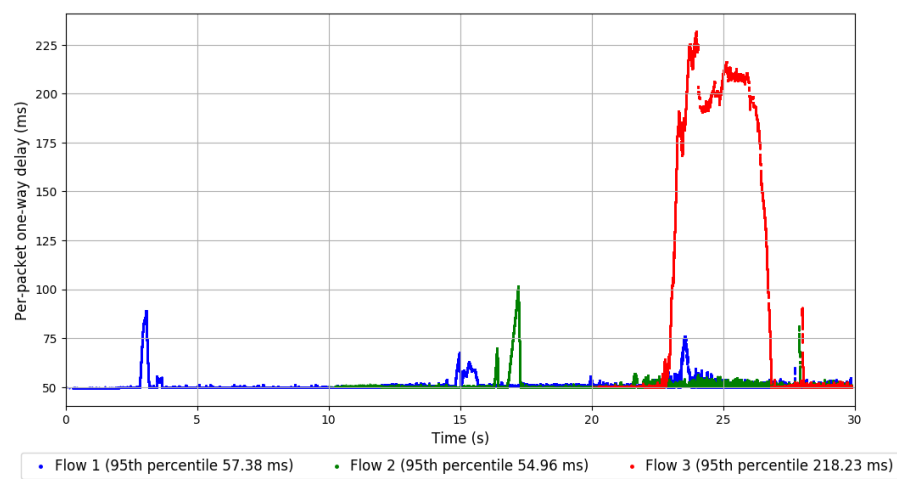
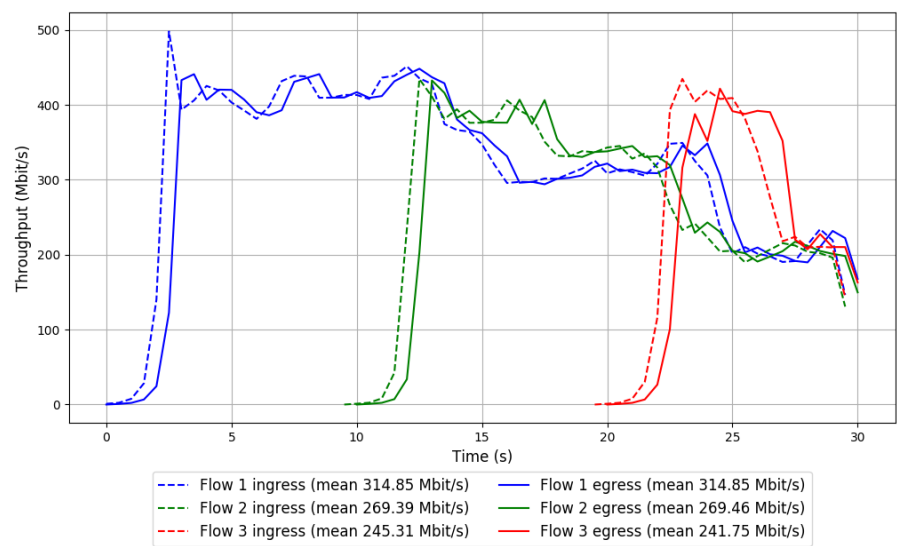
-- Flow 3:

Average throughput: 241.75 Mbit/s

95th percentile per-packet one-way delay: 218.231 ms

Loss rate: 1.47%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-06-01 10:43:05

End at: 2018-06-01 10:43:35

Local clock offset: -0.019 ms

Remote clock offset: 0.027 ms

Below is generated by plot.py at 2018-06-01 16:51:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 568.87 Mbit/s

95th percentile per-packet one-way delay: 86.553 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 318.98 Mbit/s

95th percentile per-packet one-way delay: 54.913 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 287.45 Mbit/s

95th percentile per-packet one-way delay: 125.675 ms

Loss rate: 0.27%

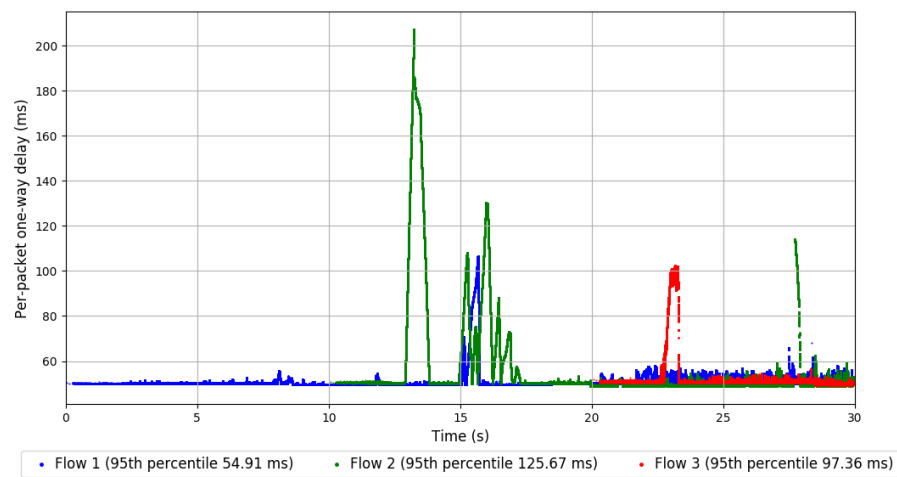
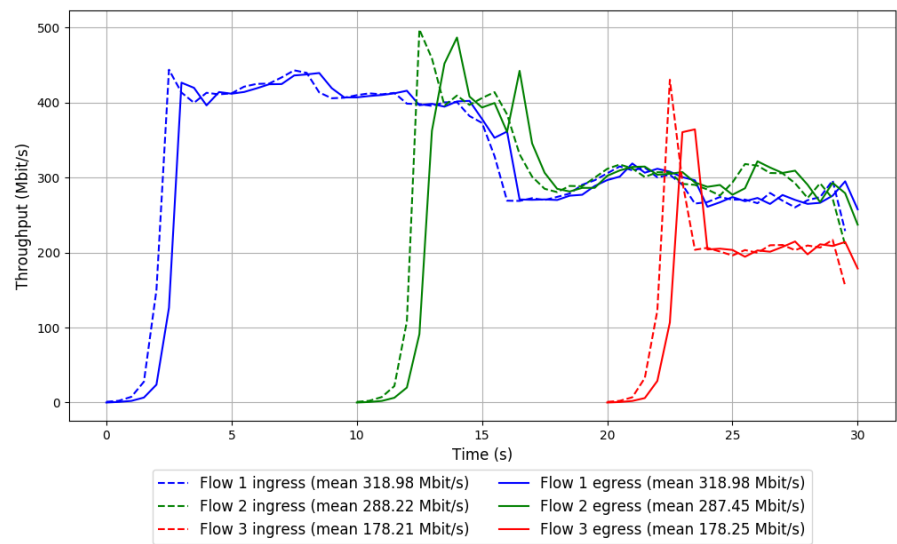
-- Flow 3:

Average throughput: 178.25 Mbit/s

95th percentile per-packet one-way delay: 97.365 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link

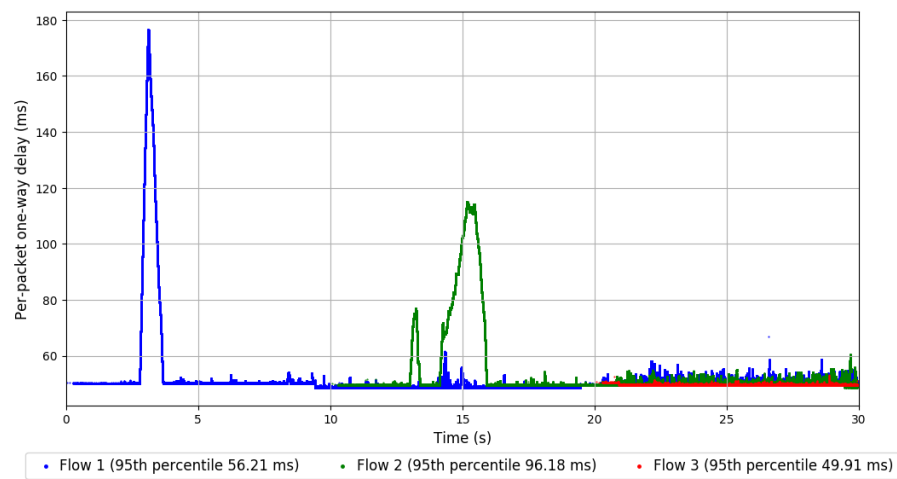
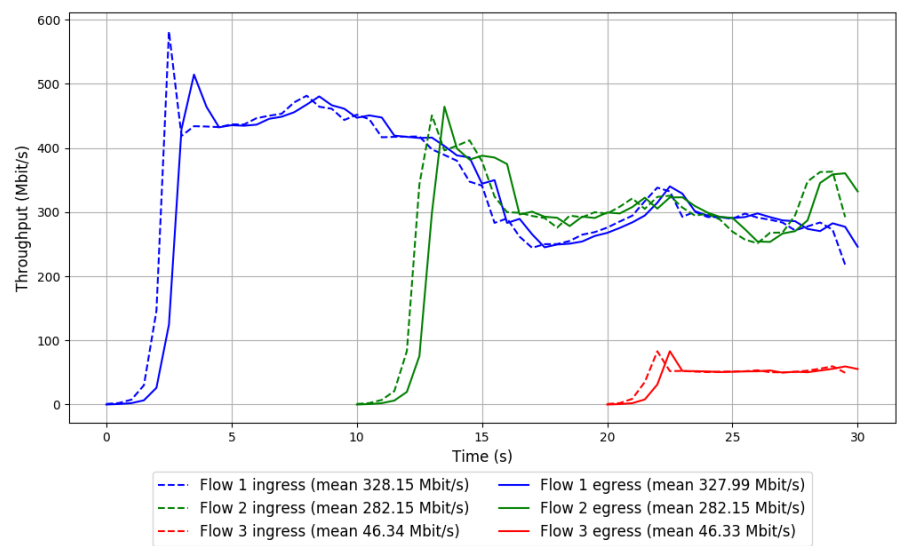


Run 3: Statistics of PCC-Vivace

Start at: 2018-06-01 11:06:14
End at: 2018-06-01 11:06:44
Local clock offset: -0.02 ms
Remote clock offset: -0.093 ms

Below is generated by plot.py at 2018-06-01 16:51:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 530.83 Mbit/s
95th percentile per-packet one-way delay: 78.937 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 327.99 Mbit/s
95th percentile per-packet one-way delay: 56.213 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 282.15 Mbit/s
95th percentile per-packet one-way delay: 96.182 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 46.33 Mbit/s
95th percentile per-packet one-way delay: 49.915 ms
Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link

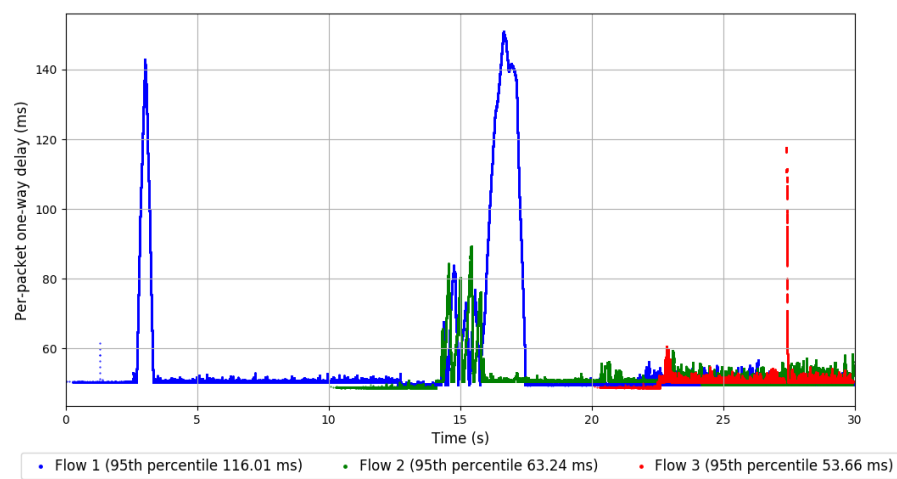
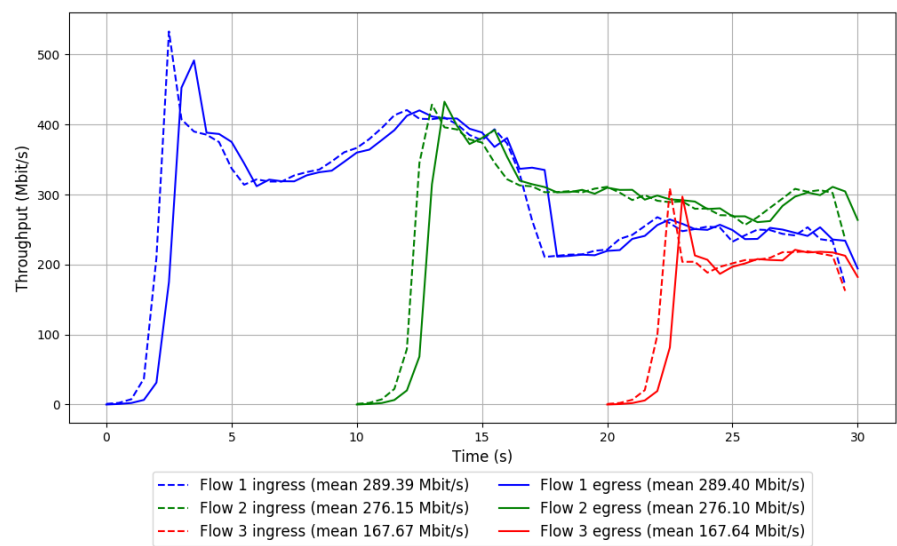


Run 4: Statistics of PCC-Vivace

Start at: 2018-06-01 11:29:30
End at: 2018-06-01 11:30:00
Local clock offset: -0.003 ms
Remote clock offset: -0.065 ms

Below is generated by plot.py at 2018-06-01 16:51:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 528.23 Mbit/s
95th percentile per-packet one-way delay: 80.201 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 289.40 Mbit/s
95th percentile per-packet one-way delay: 116.008 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 276.10 Mbit/s
95th percentile per-packet one-way delay: 63.237 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 167.64 Mbit/s
95th percentile per-packet one-way delay: 53.658 ms
Loss rate: 0.02%

Run 4: Report of PCC-Vivace — Data Link

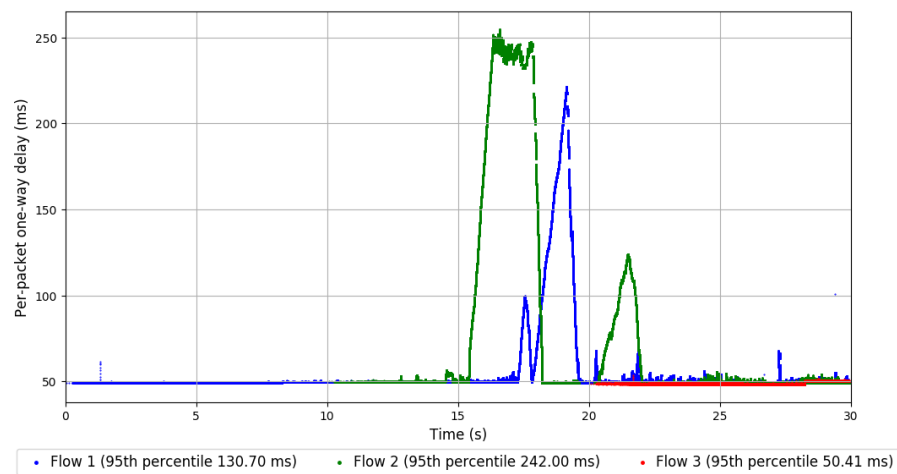
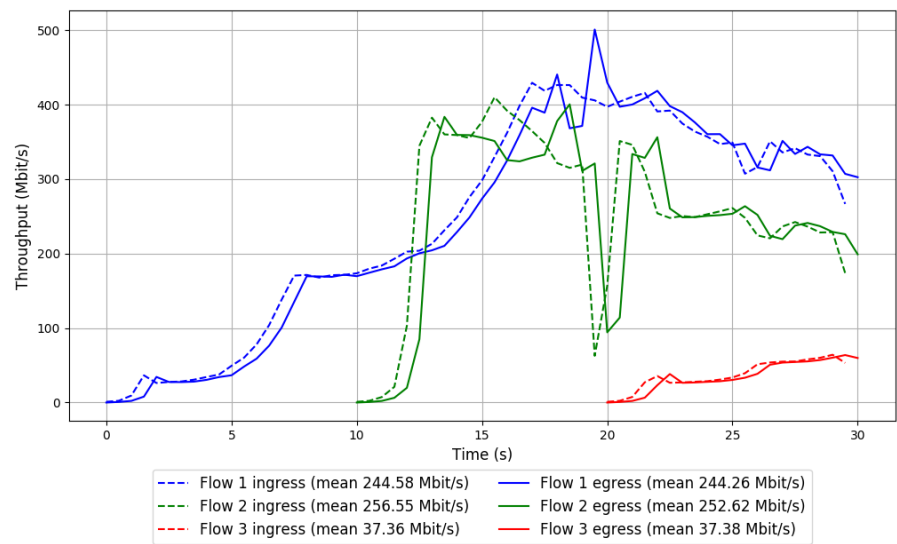


Run 5: Statistics of PCC-Vivace

Start at: 2018-06-01 11:52:46
End at: 2018-06-01 11:53:16
Local clock offset: 0.404 ms
Remote clock offset: -0.061 ms

Below is generated by plot.py at 2018-06-01 16:51:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 424.60 Mbit/s
95th percentile per-packet one-way delay: 208.481 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 244.26 Mbit/s
95th percentile per-packet one-way delay: 130.697 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 252.62 Mbit/s
95th percentile per-packet one-way delay: 241.999 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 37.38 Mbit/s
95th percentile per-packet one-way delay: 50.415 ms
Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link

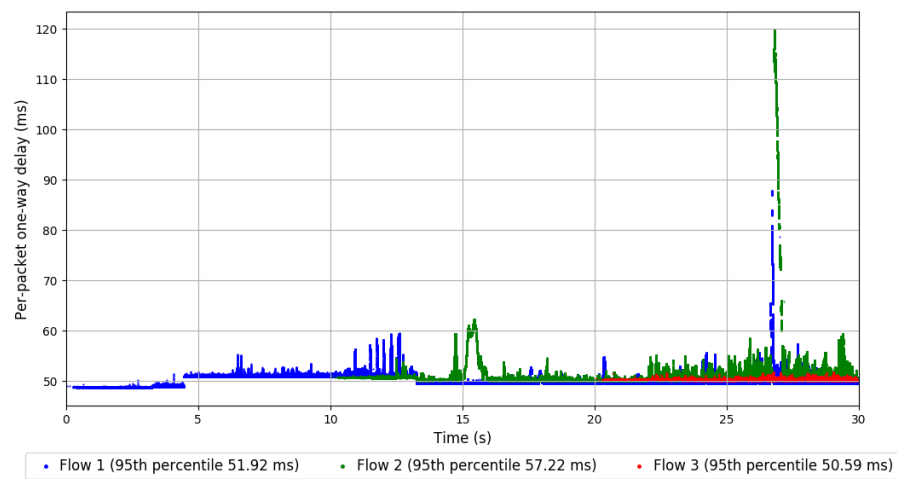
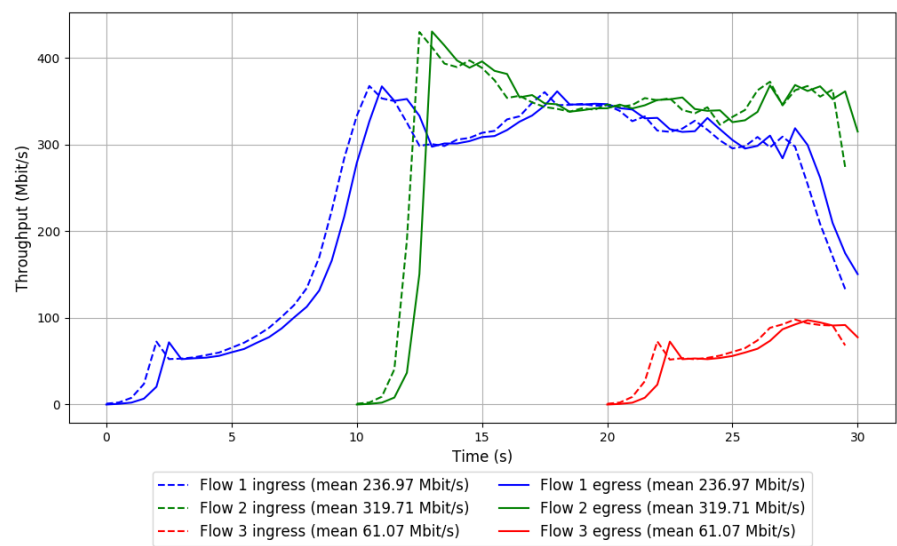


Run 6: Statistics of PCC-Vivace

Start at: 2018-06-01 12:15:51
End at: 2018-06-01 12:16:21
Local clock offset: -0.005 ms
Remote clock offset: -0.068 ms

Below is generated by plot.py at 2018-06-01 16:51:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 469.71 Mbit/s
95th percentile per-packet one-way delay: 53.911 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 236.97 Mbit/s
95th percentile per-packet one-way delay: 51.924 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 319.71 Mbit/s
95th percentile per-packet one-way delay: 57.223 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 61.07 Mbit/s
95th percentile per-packet one-way delay: 50.594 ms
Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link

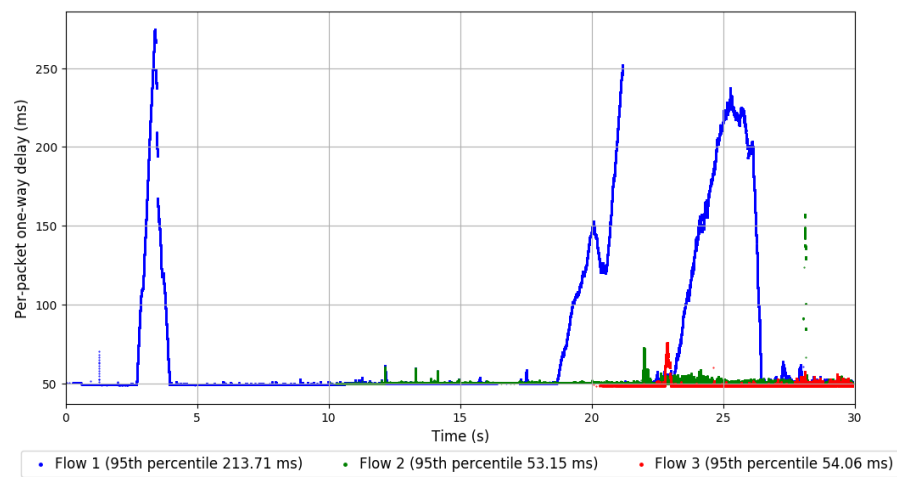
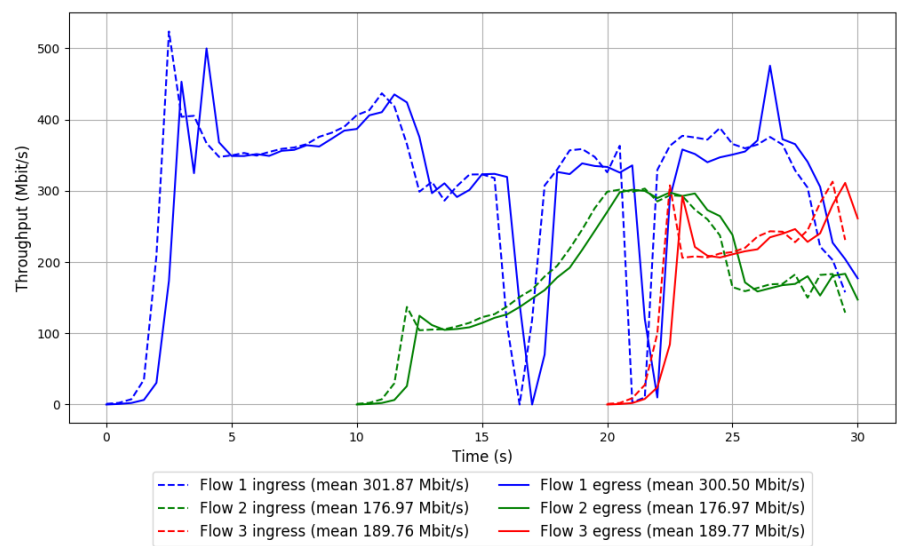


Run 7: Statistics of PCC-Vivace

Start at: 2018-06-01 12:39:12
End at: 2018-06-01 12:39:42
Local clock offset: 0.907 ms
Remote clock offset: -0.102 ms

Below is generated by plot.py at 2018-06-01 16:52:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 480.65 Mbit/s
95th percentile per-packet one-way delay: 193.340 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 300.50 Mbit/s
95th percentile per-packet one-way delay: 213.708 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 176.97 Mbit/s
95th percentile per-packet one-way delay: 53.149 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 189.77 Mbit/s
95th percentile per-packet one-way delay: 54.057 ms
Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link

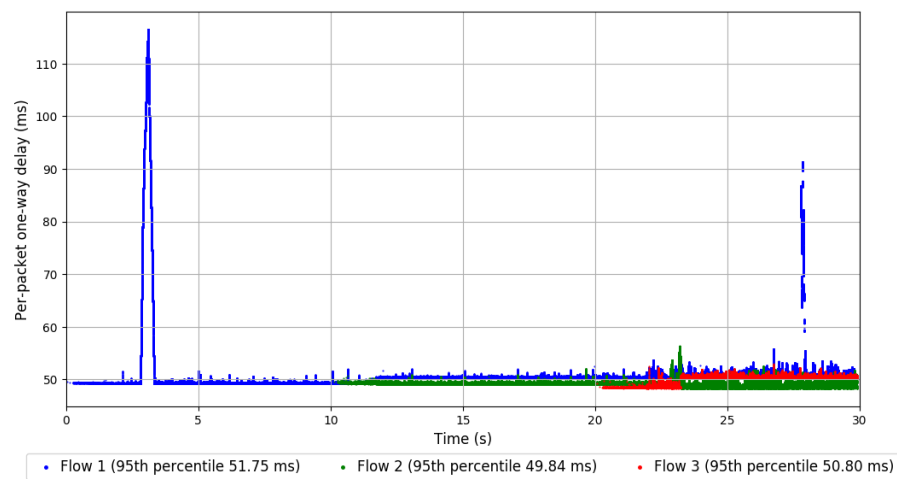
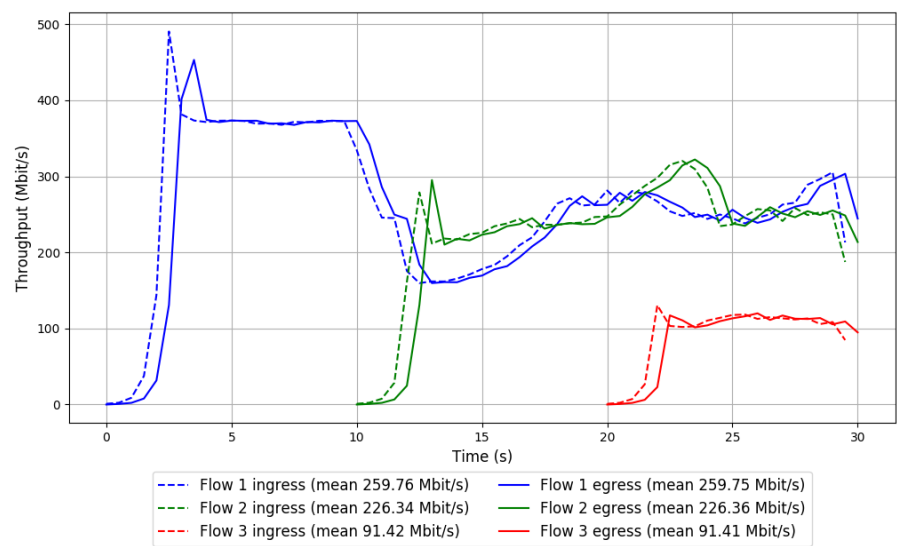


Run 8: Statistics of PCC-Vivace

Start at: 2018-06-01 13:02:11
End at: 2018-06-01 13:02:41
Local clock offset: 2.403 ms
Remote clock offset: -0.103 ms

Below is generated by plot.py at 2018-06-01 16:52:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 440.45 Mbit/s
95th percentile per-packet one-way delay: 51.082 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 259.75 Mbit/s
95th percentile per-packet one-way delay: 51.748 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 226.36 Mbit/s
95th percentile per-packet one-way delay: 49.835 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 91.41 Mbit/s
95th percentile per-packet one-way delay: 50.795 ms
Loss rate: 0.00%

Run 8: Report of PCC-Vivace — Data Link

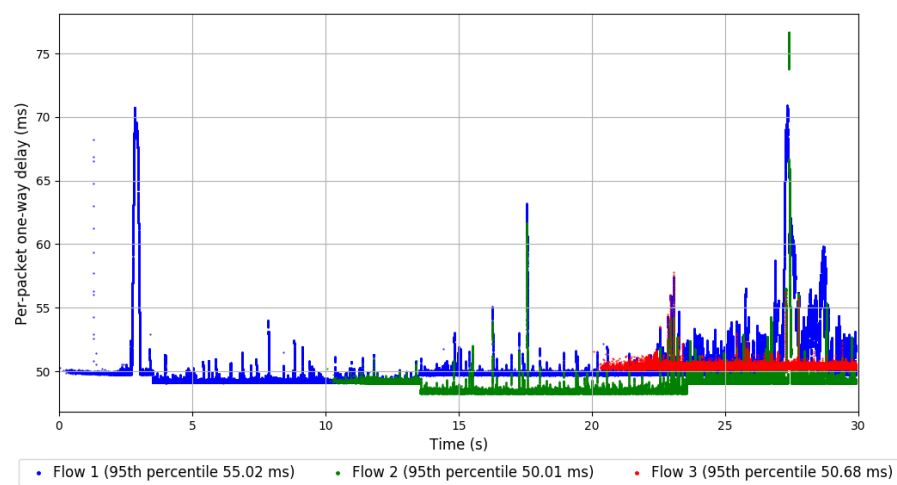
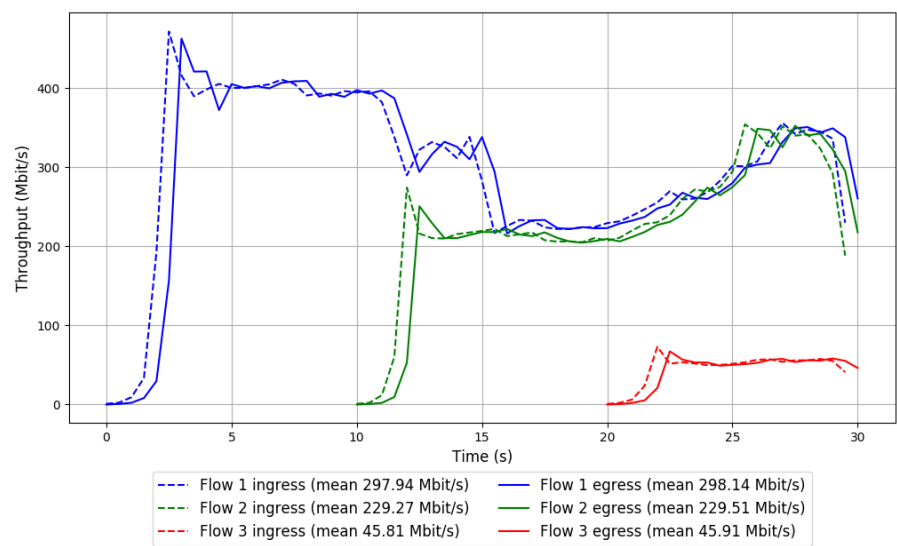


Run 9: Statistics of PCC-Vivace

Start at: 2018-06-01 13:25:01
End at: 2018-06-01 13:25:31
Local clock offset: 1.025 ms
Remote clock offset: -0.064 ms

Below is generated by plot.py at 2018-06-01 16:53:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 465.82 Mbit/s
95th percentile per-packet one-way delay: 53.274 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 298.14 Mbit/s
95th percentile per-packet one-way delay: 55.021 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 229.51 Mbit/s
95th percentile per-packet one-way delay: 50.009 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 45.91 Mbit/s
95th percentile per-packet one-way delay: 50.678 ms
Loss rate: 0.02%

Run 9: Report of PCC-Vivace — Data Link

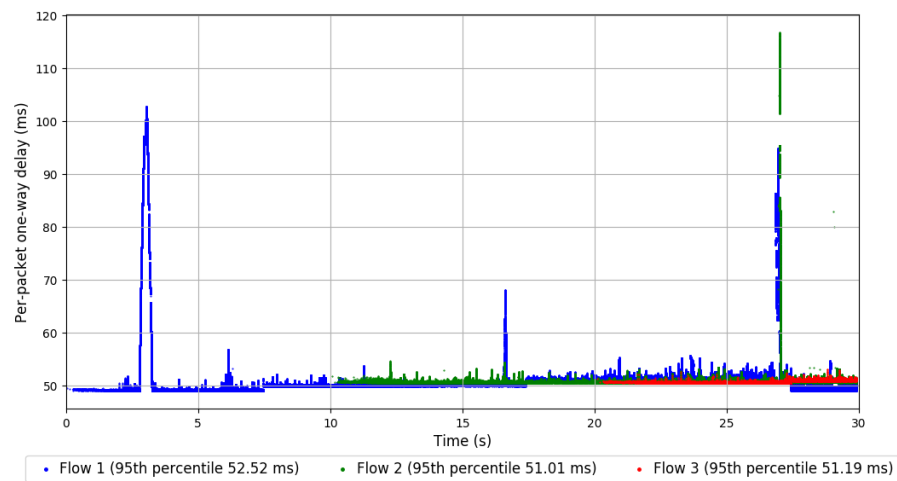
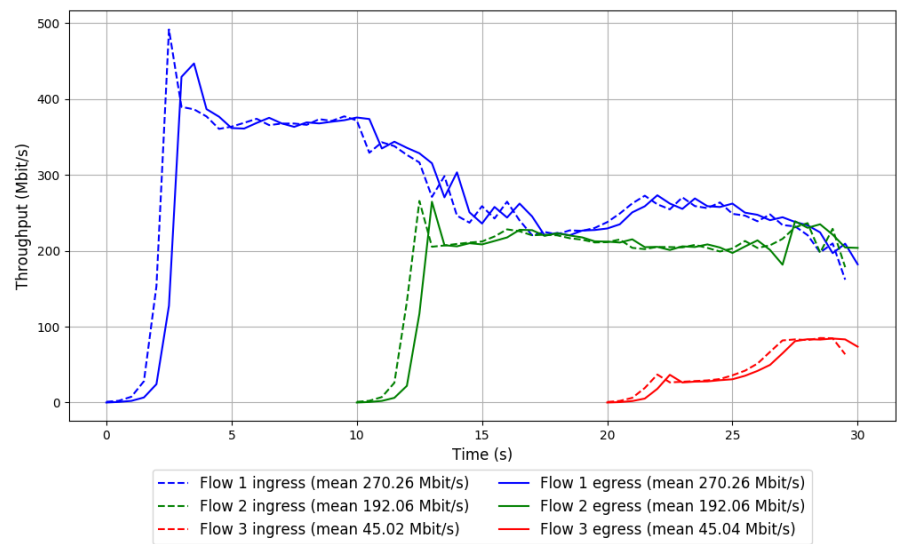


Run 10: Statistics of PCC-Vivace

Start at: 2018-06-01 13:48:07
End at: 2018-06-01 13:48:37
Local clock offset: 0.532 ms
Remote clock offset: -0.069 ms

Below is generated by plot.py at 2018-06-01 16:53:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 412.68 Mbit/s
95th percentile per-packet one-way delay: 51.774 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 270.26 Mbit/s
95th percentile per-packet one-way delay: 52.518 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 192.06 Mbit/s
95th percentile per-packet one-way delay: 51.010 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 45.04 Mbit/s
95th percentile per-packet one-way delay: 51.190 ms
Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link

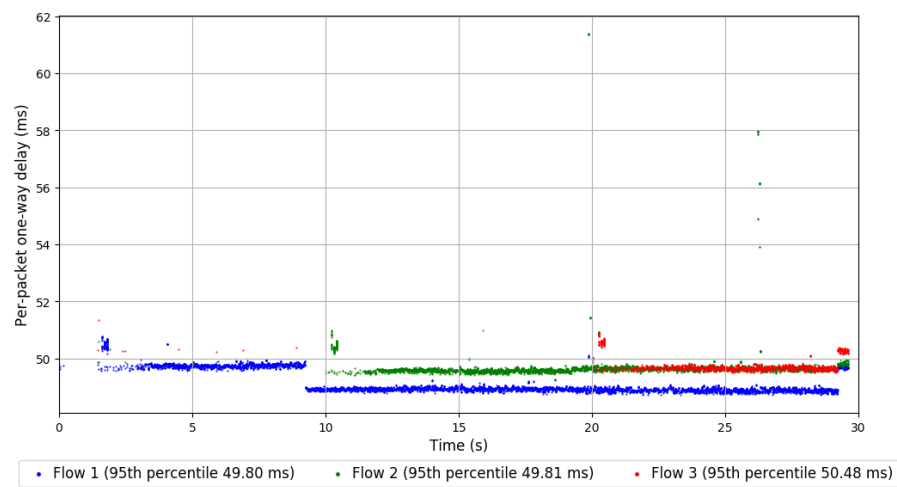
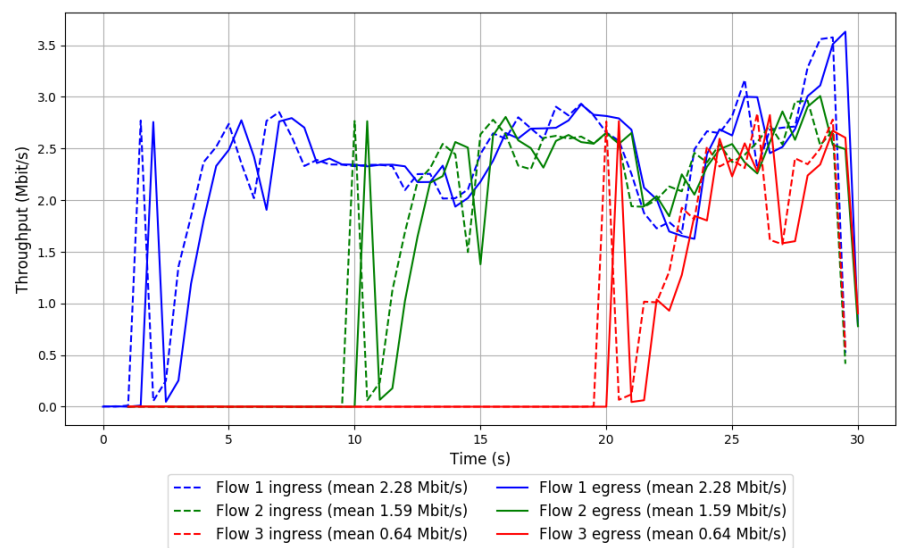


```
Run 1: Statistics of WebRTC media

Start at: 2018-06-01 10:15:23
End at: 2018-06-01 10:15:53
Local clock offset: -0.019 ms
Remote clock offset: 0.022 ms

# Below is generated by plot.py at 2018-06-01 16:53:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 49.837 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 49.803 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.59 Mbit/s
95th percentile per-packet one-way delay: 49.813 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 50.479 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-06-01 10:38:51

End at: 2018-06-01 10:39:21

Local clock offset: -0.038 ms

Remote clock offset: 0.047 ms

Below is generated by plot.py at 2018-06-01 16:53:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.02 Mbit/s

95th percentile per-packet one-way delay: 50.698 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 50.817 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 50.663 ms

Loss rate: 0.16%

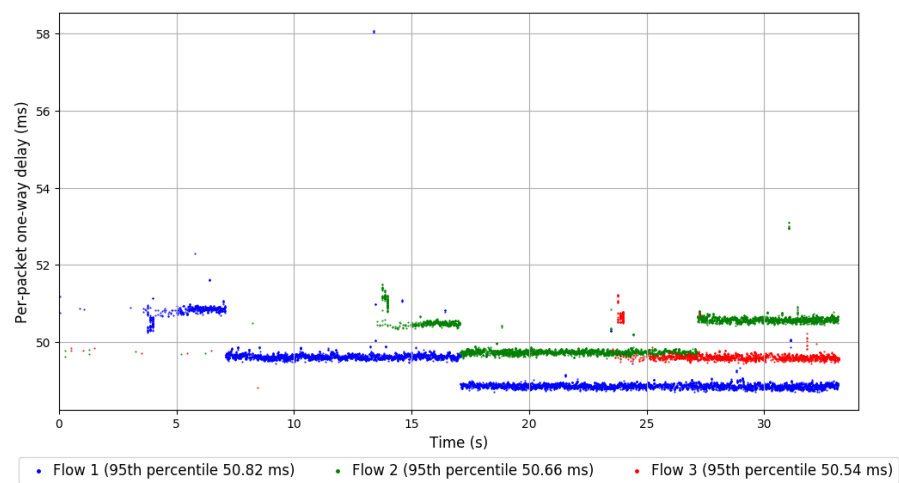
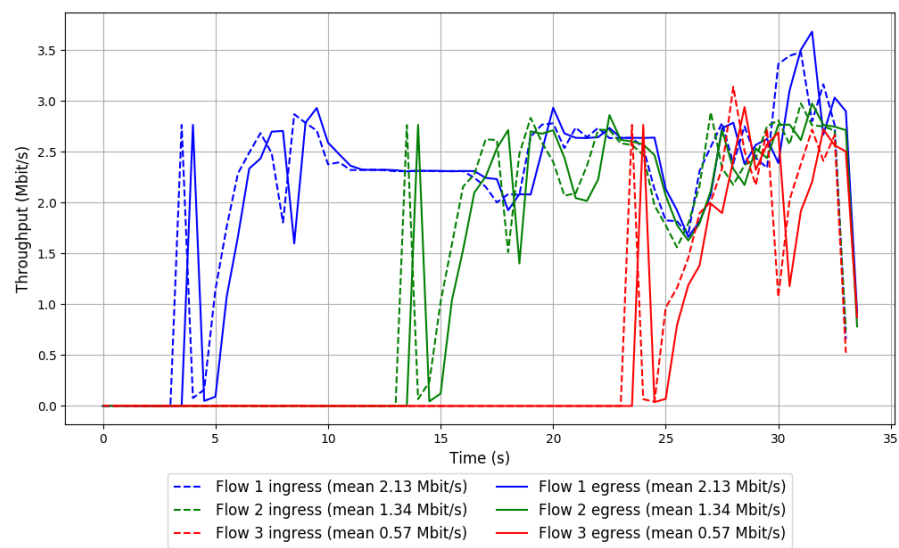
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 50.539 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

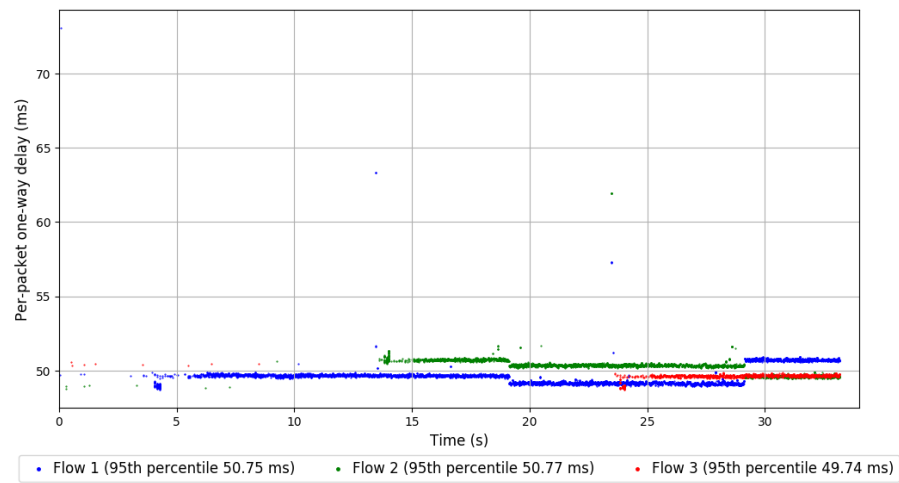
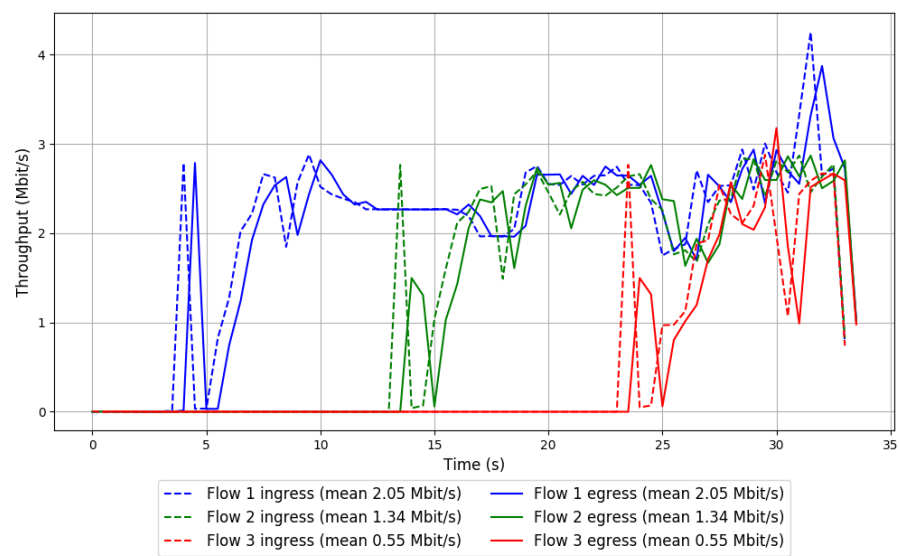


Run 3: Statistics of WebRTC media

Start at: 2018-06-01 11:02:09
End at: 2018-06-01 11:02:39
Local clock offset: 0.011 ms
Remote clock offset: -0.044 ms

Below is generated by plot.py at 2018-06-01 16:53:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.93 Mbit/s
95th percentile per-packet one-way delay: 50.747 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 50.746 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.34 Mbit/s
95th percentile per-packet one-way delay: 50.765 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 49.737 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

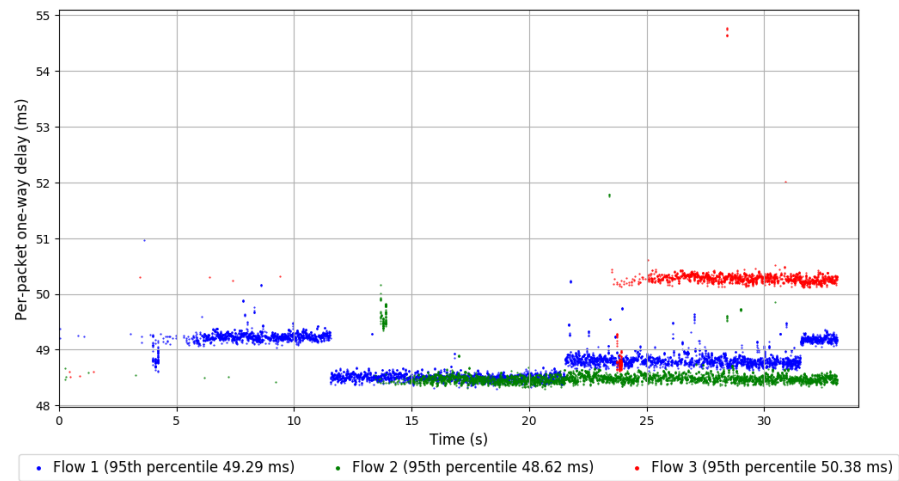
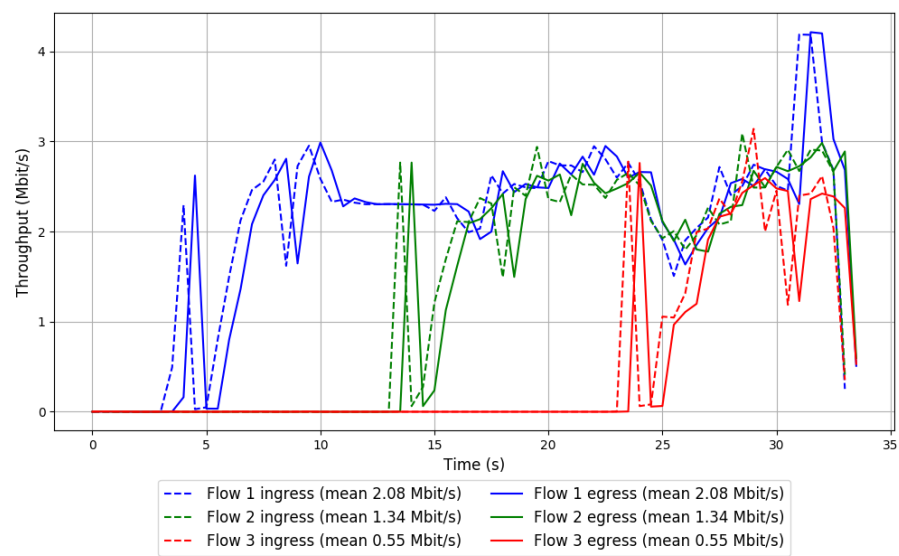


Run 4: Statistics of WebRTC media

Start at: 2018-06-01 11:25:16
End at: 2018-06-01 11:25:46
Local clock offset: 0.353 ms
Remote clock offset: -0.083 ms

Below is generated by plot.py at 2018-06-01 16:53:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.96 Mbit/s
95th percentile per-packet one-way delay: 50.299 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.08 Mbit/s
95th percentile per-packet one-way delay: 49.289 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.34 Mbit/s
95th percentile per-packet one-way delay: 48.623 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 50.377 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

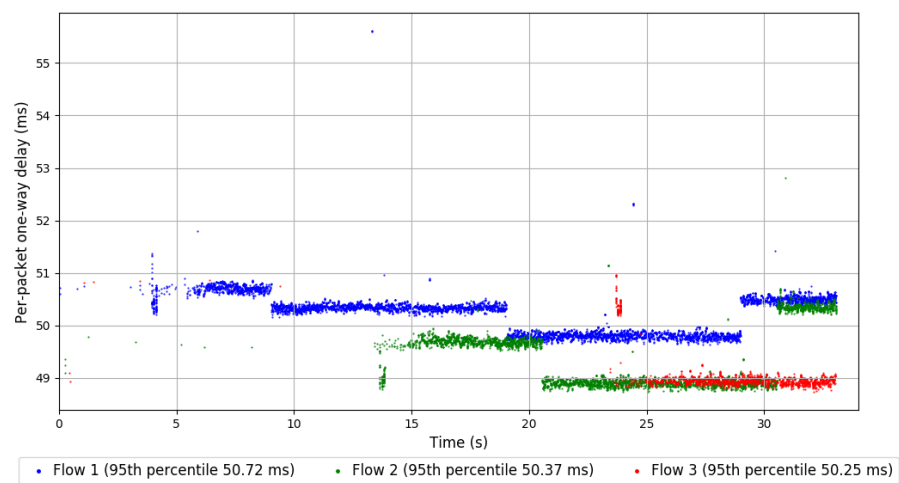
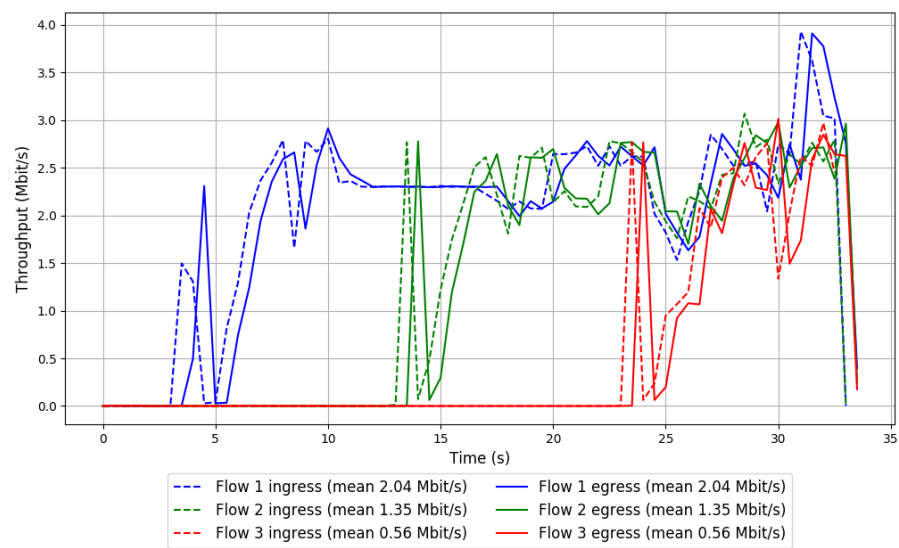


Run 5: Statistics of WebRTC media

Start at: 2018-06-01 11:48:37
End at: 2018-06-01 11:49:07
Local clock offset: 0.007 ms
Remote clock offset: -0.057 ms

Below is generated by plot.py at 2018-06-01 16:53:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.94 Mbit/s
95th percentile per-packet one-way delay: 50.652 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 50.715 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.35 Mbit/s
95th percentile per-packet one-way delay: 50.372 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 50.254 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-06-01 12:11:45

End at: 2018-06-01 12:12:15

Local clock offset: -0.394 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at 2018-06-01 16:53:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.88 Mbit/s

95th percentile per-packet one-way delay: 51.190 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 51.200 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 51.185 ms

Loss rate: 0.00%

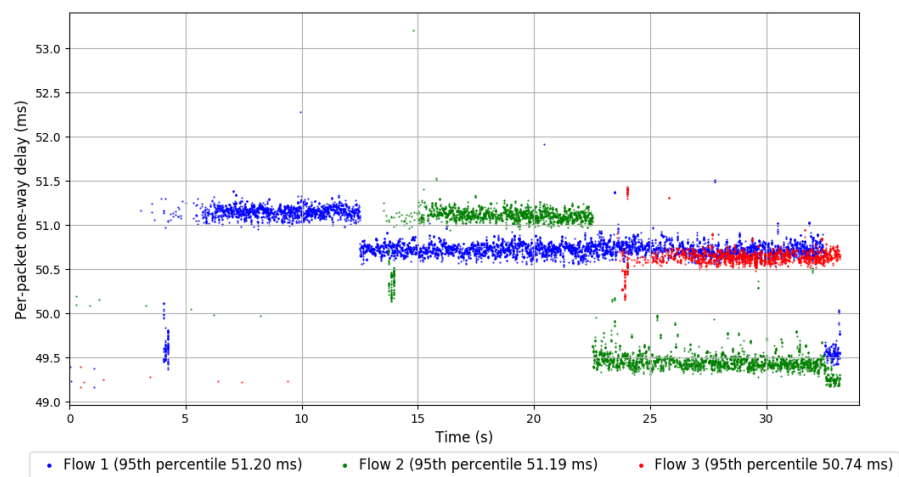
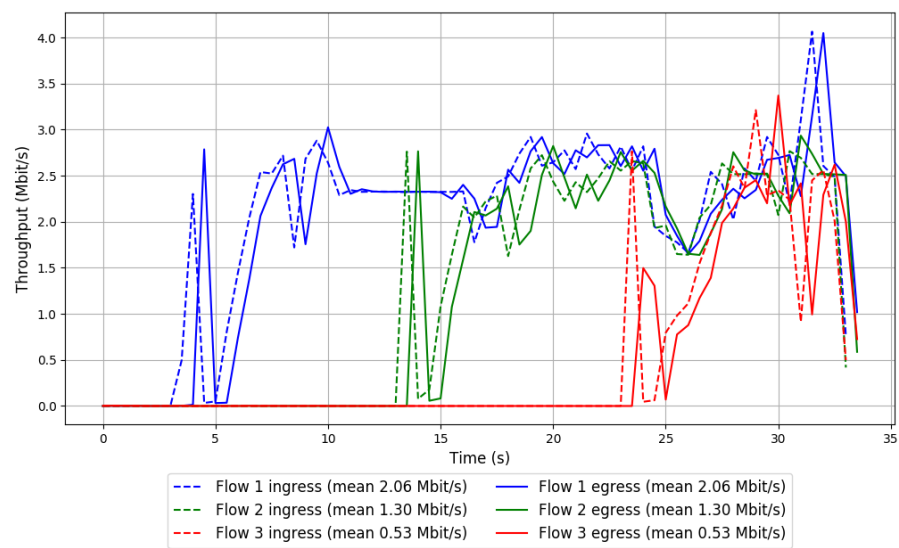
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 50.743 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

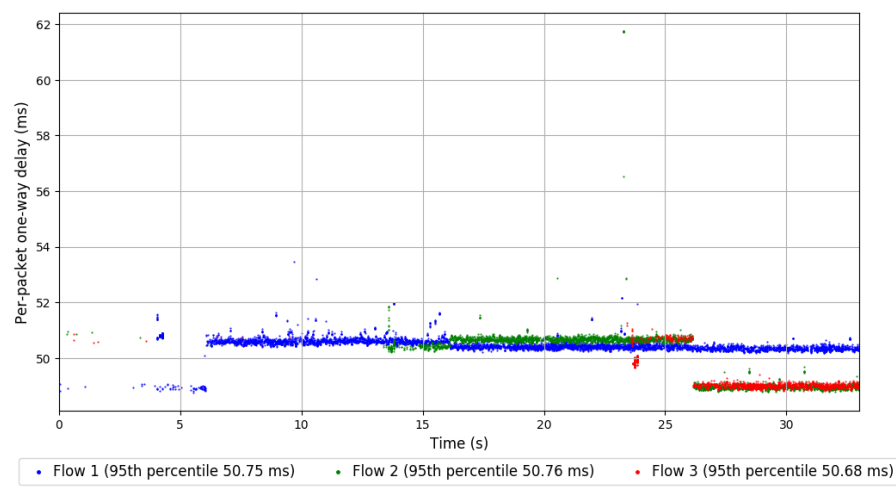
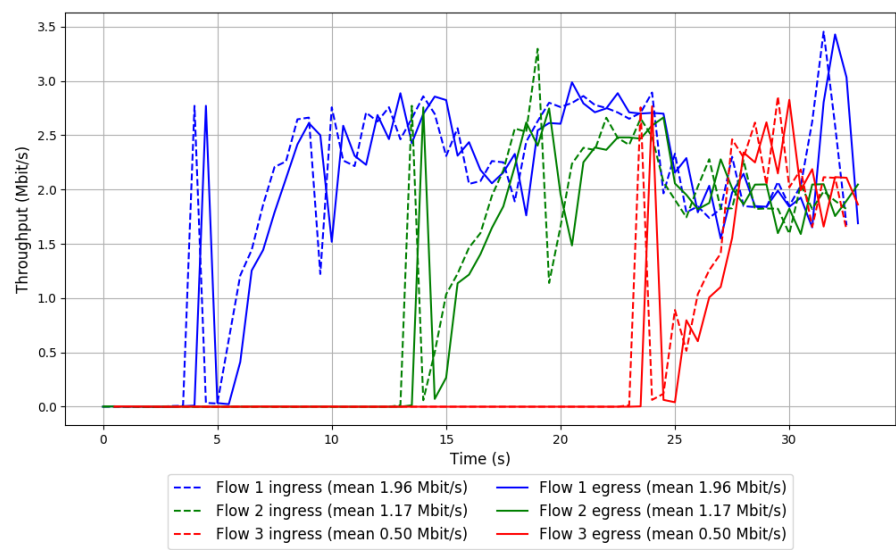


Run 7: Statistics of WebRTC media

Start at: 2018-06-01 12:34:52
End at: 2018-06-01 12:35:22
Local clock offset: 0.257 ms
Remote clock offset: -0.107 ms

Below is generated by plot.py at 2018-06-01 16:53:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.60 Mbit/s
95th percentile per-packet one-way delay: 50.753 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 50.753 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.17 Mbit/s
95th percentile per-packet one-way delay: 50.763 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 50.680 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

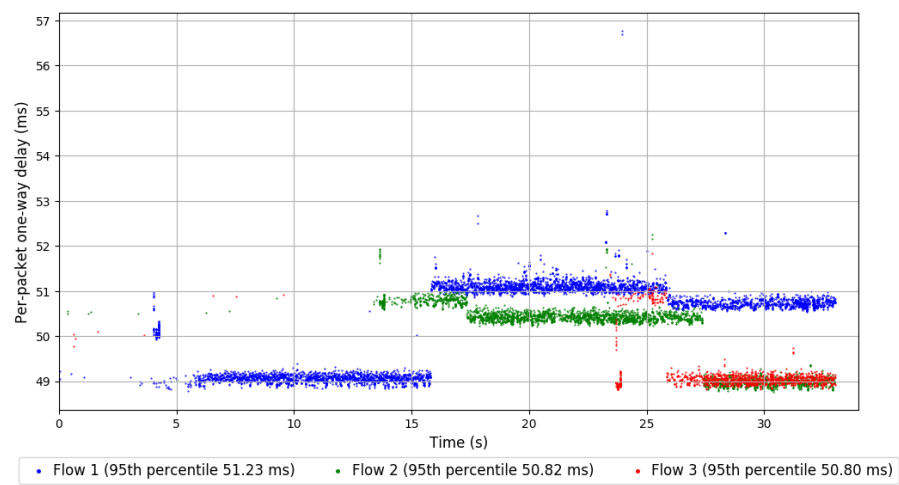
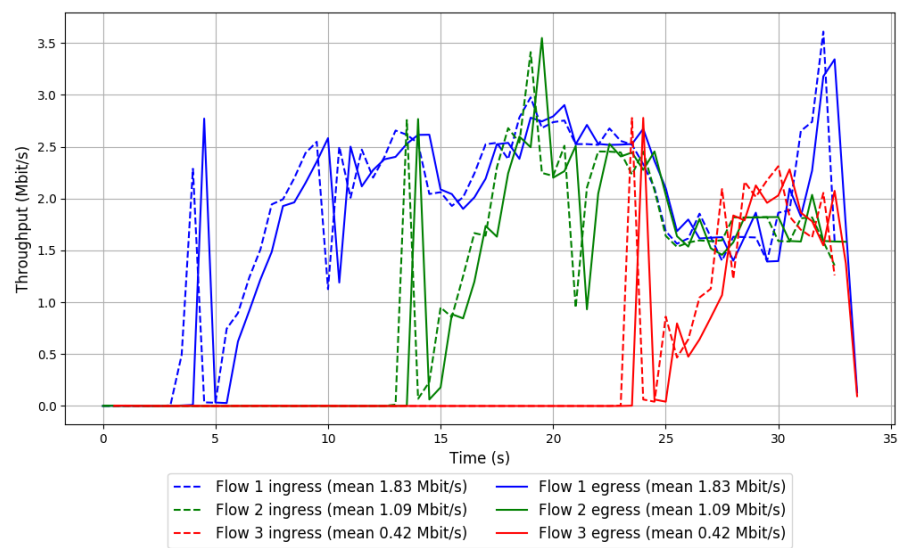


Run 8: Statistics of WebRTC media

Start at: 2018-06-01 12:58:00
End at: 2018-06-01 12:58:30
Local clock offset: 1.706 ms
Remote clock offset: -0.085 ms

Below is generated by plot.py at 2018-06-01 16:53:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.32 Mbit/s
95th percentile per-packet one-way delay: 51.173 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.83 Mbit/s
95th percentile per-packet one-way delay: 51.230 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.09 Mbit/s
95th percentile per-packet one-way delay: 50.820 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 50.797 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

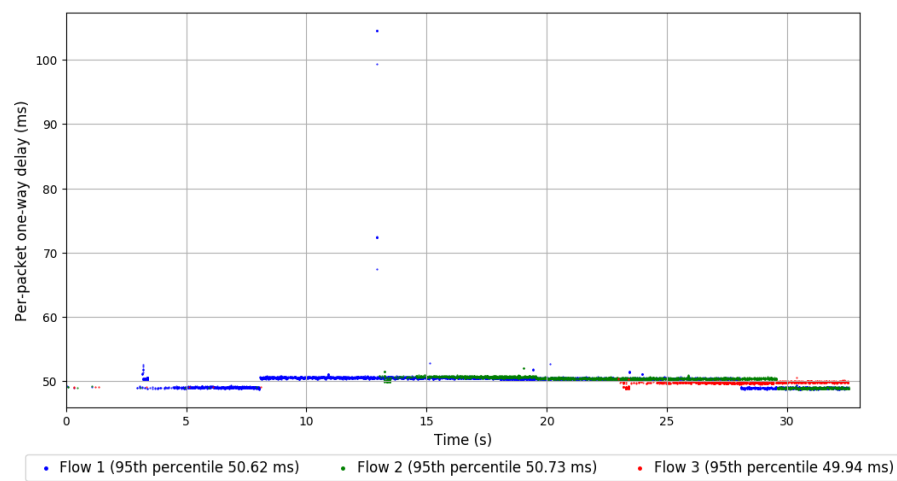
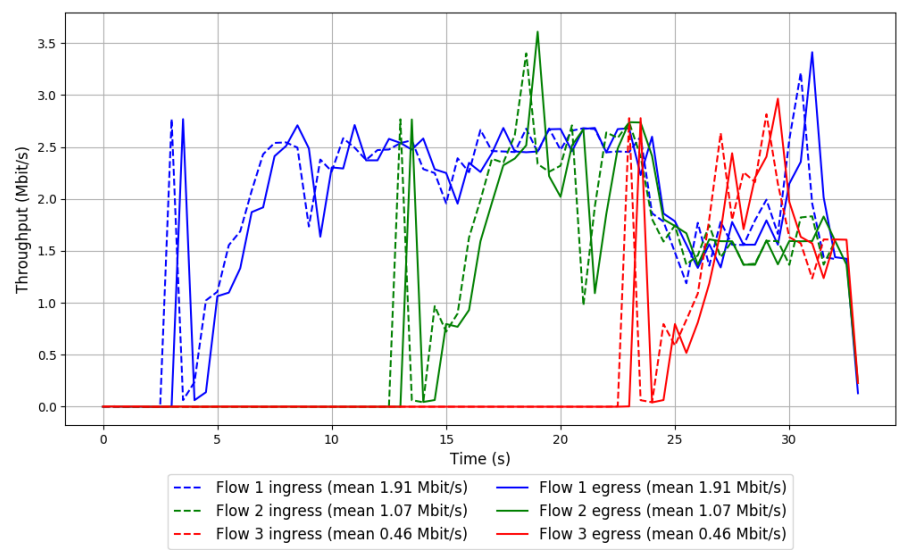


Run 9: Statistics of WebRTC media

Start at: 2018-06-01 13:20:48
End at: 2018-06-01 13:21:18
Local clock offset: 0.634 ms
Remote clock offset: -0.062 ms

Below is generated by plot.py at 2018-06-01 16:53:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.43 Mbit/s
95th percentile per-packet one-way delay: 50.662 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.91 Mbit/s
95th percentile per-packet one-way delay: 50.621 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.07 Mbit/s
95th percentile per-packet one-way delay: 50.729 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 49.944 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-01 13:43:49
End at: 2018-06-01 13:44:19
Local clock offset: 0.844 ms
Remote clock offset: -0.043 ms

Below is generated by plot.py at 2018-06-01 16:53:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.48 Mbit/s
95th percentile per-packet one-way delay: 50.694 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 50.696 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.10 Mbit/s
95th percentile per-packet one-way delay: 50.728 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 50.599 ms
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

