

Pantheon Report

Generated at 2018-09-26 10:22:22 (UTC).

Data path: GCE Sydney on **ens4** (*local*) → GCE Tokyo on **ens4** (*remote*).

Repeated the test of 19 congestion control schemes 5 times.

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

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

System info:

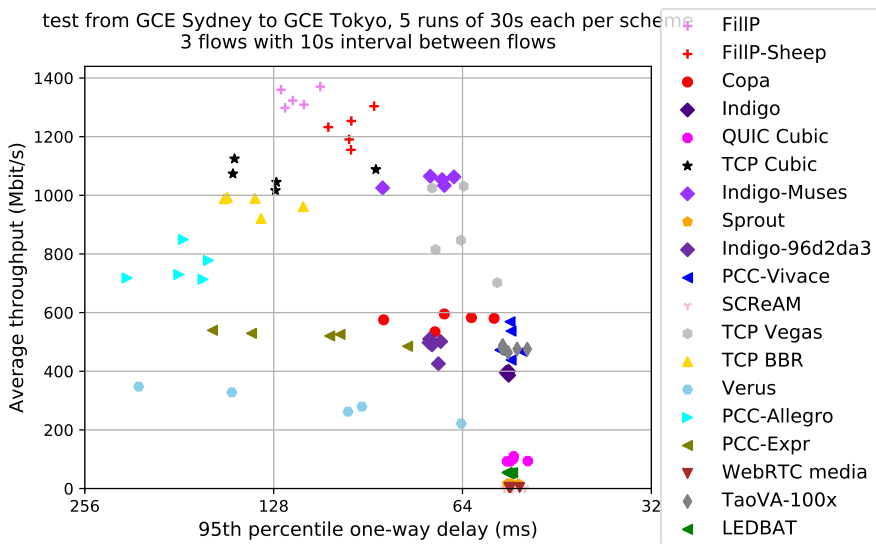
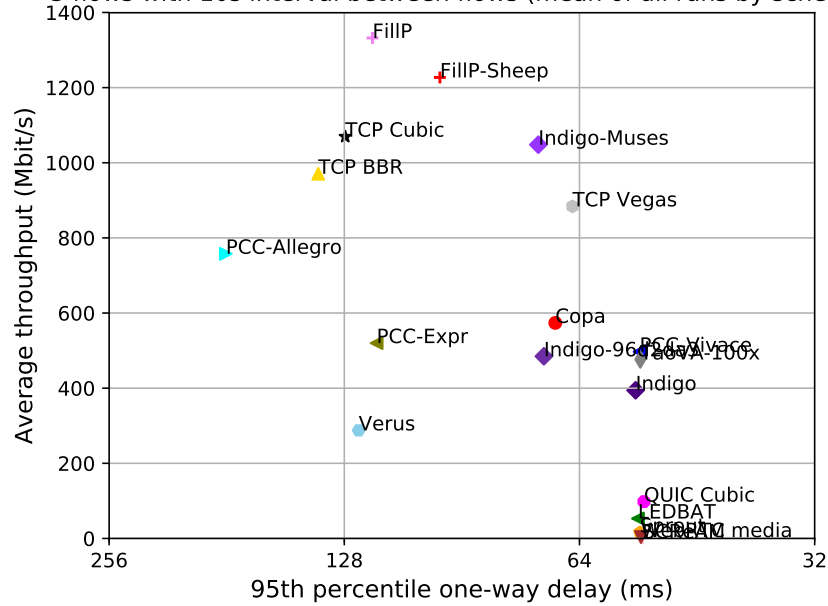
```
Linux 4.15.0-1019-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
net.ipv4.tcp_mem = 190986 254651 381972
```

Git summary:

```
branch: muses @ 90192f6b64ce1a1191dcca0e9ff9ee24950674d7
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-96d2da3 @ 8413272d46f8aa0bcb967ed7048b6a8f994abb95
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 65ac1b19bbefed0c6349ae986009b4fa8643c40a
third_party/pantheon-tunnel @ cbfce6db5ff5740dafa1771f813cd646339e1952
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-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
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 Sydney to GCE Tokyo, 5 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



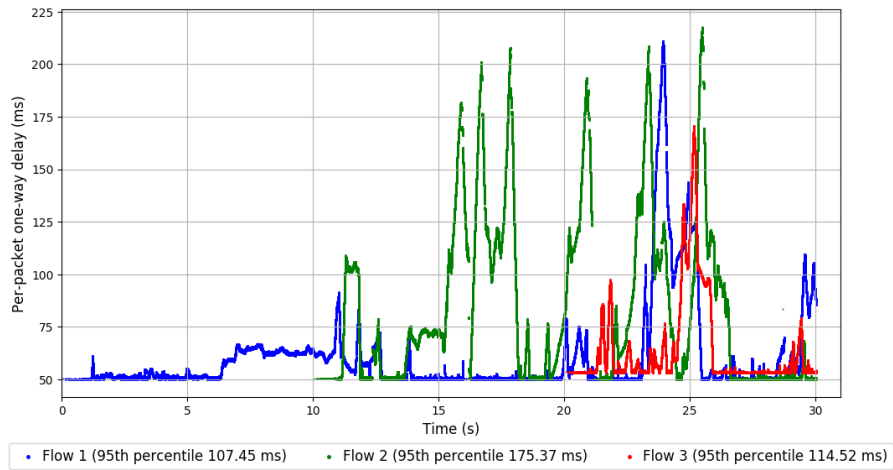
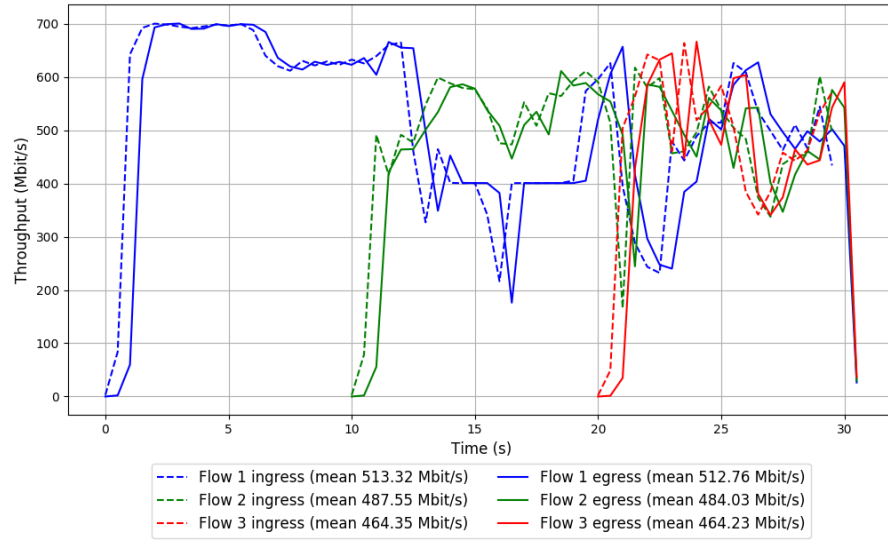
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	517.38	475.37	411.57	134.17	139.22	119.68	0.37	0.35	0.25
Copa	5	302.20	274.59	266.56	64.82	70.22	65.57	0.00	0.01	0.01
TCP Cubic	5	570.43	518.83	462.72	125.45	106.06	107.55	0.07	0.07	0.08
FillP	5	717.59	655.95	537.44	118.91	116.92	71.42	1.53	1.53	0.15
FillP-Sheep	5	672.77	597.55	471.98	101.33	83.96	64.84	0.17	0.07	0.04
Indigo	5	209.10	194.01	174.76	53.76	53.61	52.90	0.00	0.01	0.01
Indigo-96d2da3	5	246.46	246.63	229.02	71.99	69.95	70.91	0.01	0.03	0.01
LEDBAT	5	34.13	22.71	11.57	52.39	53.81	51.53	0.00	0.00	0.00
Indigo-Muses	5	571.93	507.18	425.94	74.09	69.88	67.95	0.01	0.02	0.05
PCC-Allegro	5	413.20	376.23	286.80	176.92	164.90	159.21	3.69	3.47	2.21
PCC-Expr	5	293.09	257.87	167.40	127.03	90.01	64.54	0.69	0.23	0.04
QUIC Cubic	5	54.39	41.97	48.11	51.27	51.60	52.20	0.00	0.00	0.00
SCReAM	5	0.21	0.21	0.22	51.94	51.28	51.97	0.03	0.00	0.07
Sprout	5	8.09	8.03	7.66	52.55	51.23	53.01	0.05	0.00	0.00
TaoVA-100x	5	241.62	237.67	230.34	52.19	53.87	52.28	0.00	0.01	0.00
TCP Vegas	5	488.36	382.67	423.45	65.42	62.61	61.44	0.02	0.02	0.05
Verus	5	158.68	141.79	106.12	108.12	110.56	81.88	0.03	0.95	0.41
PCC-Vivace	5	300.10	232.98	126.61	56.59	52.34	53.34	0.00	0.01	0.02
WebRTC media	5	1.97	1.21	0.48	53.37	52.64	51.43	0.00	0.00	0.04

Run 1: Statistics of TCP BBR

Start at: 2018-09-26 04:40:48
End at: 2018-09-26 04:41:18
Local clock offset: -0.094 ms
Remote clock offset: -0.215 ms

Below is generated by plot.py at 2018-09-26 07:55:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 989.27 Mbit/s
95th percentile per-packet one-way delay: 137.065 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 512.76 Mbit/s
95th percentile per-packet one-way delay: 107.446 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 484.03 Mbit/s
95th percentile per-packet one-way delay: 175.368 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 464.23 Mbit/s
95th percentile per-packet one-way delay: 114.519 ms
Loss rate: 0.05%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-09-26 05:13:42

End at: 2018-09-26 05:14:12

Local clock offset: -0.229 ms

Remote clock offset: 1.439 ms

Below is generated by plot.py at 2018-09-26 07:55:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 921.32 Mbit/s

95th percentile per-packet one-way delay: 134.069 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 489.31 Mbit/s

95th percentile per-packet one-way delay: 134.910 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 476.77 Mbit/s

95th percentile per-packet one-way delay: 138.740 ms

Loss rate: 0.14%

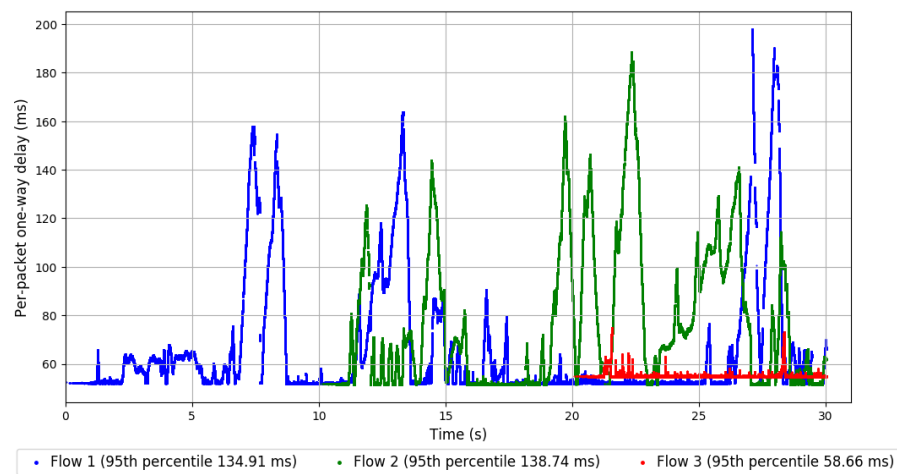
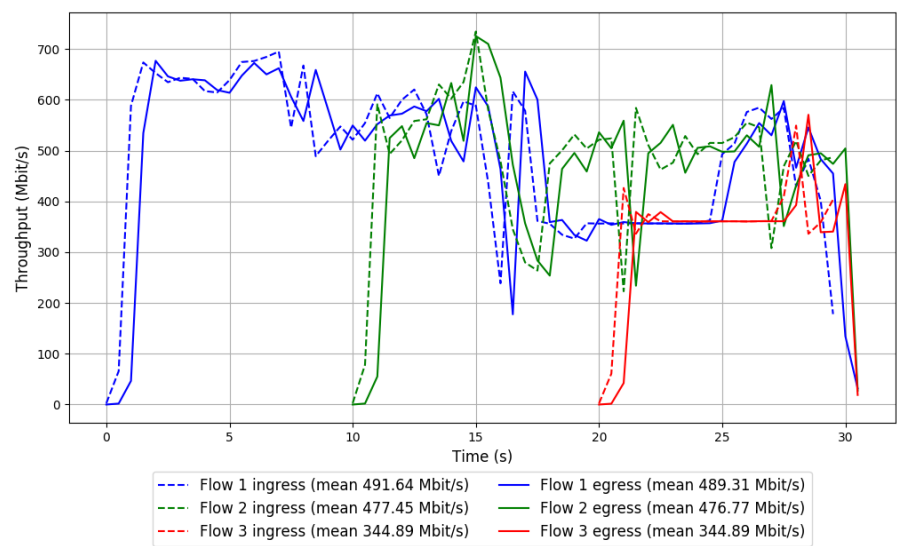
-- Flow 3:

Average throughput: 344.89 Mbit/s

95th percentile per-packet one-way delay: 58.662 ms

Loss rate: 0.02%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-09-26 05:46:36

End at: 2018-09-26 05:47:06

Local clock offset: -0.114 ms

Remote clock offset: 1.385 ms

Below is generated by plot.py at 2018-09-26 07:55:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 961.49 Mbit/s

95th percentile per-packet one-way delay: 114.840 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 530.01 Mbit/s

95th percentile per-packet one-way delay: 122.172 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 441.49 Mbit/s

95th percentile per-packet one-way delay: 109.954 ms

Loss rate: 0.43%

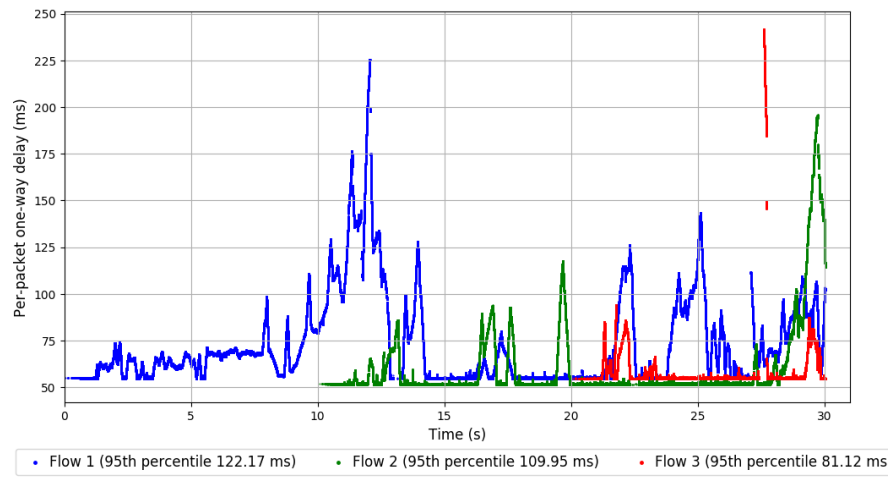
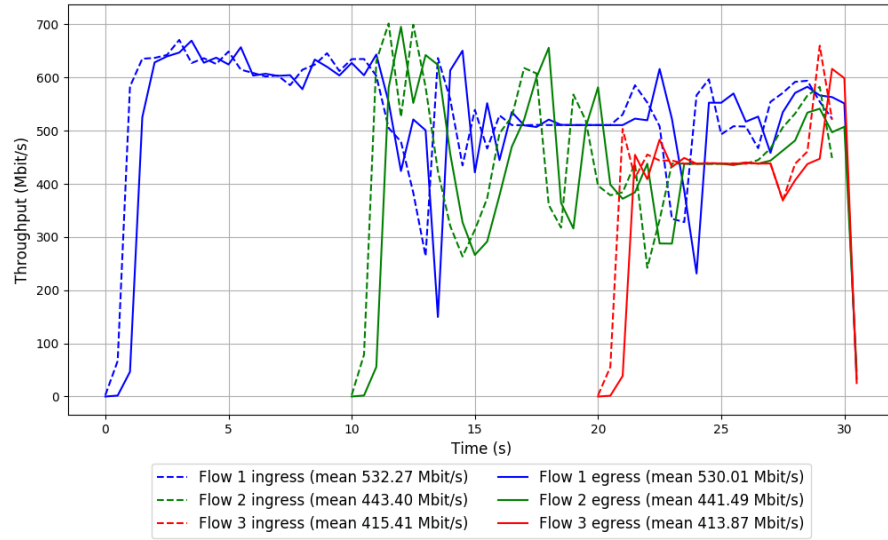
-- Flow 3:

Average throughput: 413.87 Mbit/s

95th percentile per-packet one-way delay: 81.125 ms

Loss rate: 0.40%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-09-26 06:19:46

End at: 2018-09-26 06:20:16

Local clock offset: -0.094 ms

Remote clock offset: 1.62 ms

Below is generated by plot.py at 2018-09-26 07:55:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 993.18 Mbit/s

95th percentile per-packet one-way delay: 151.755 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 514.39 Mbit/s

95th percentile per-packet one-way delay: 154.895 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 504.44 Mbit/s

95th percentile per-packet one-way delay: 140.858 ms

Loss rate: 0.30%

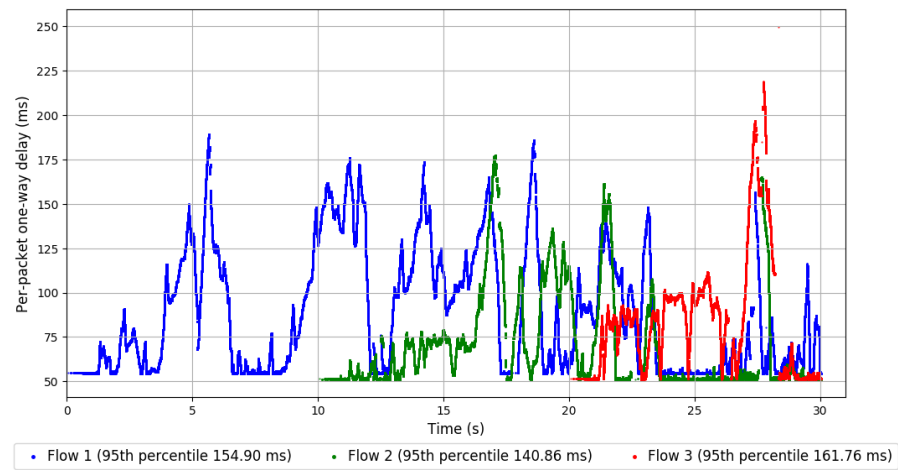
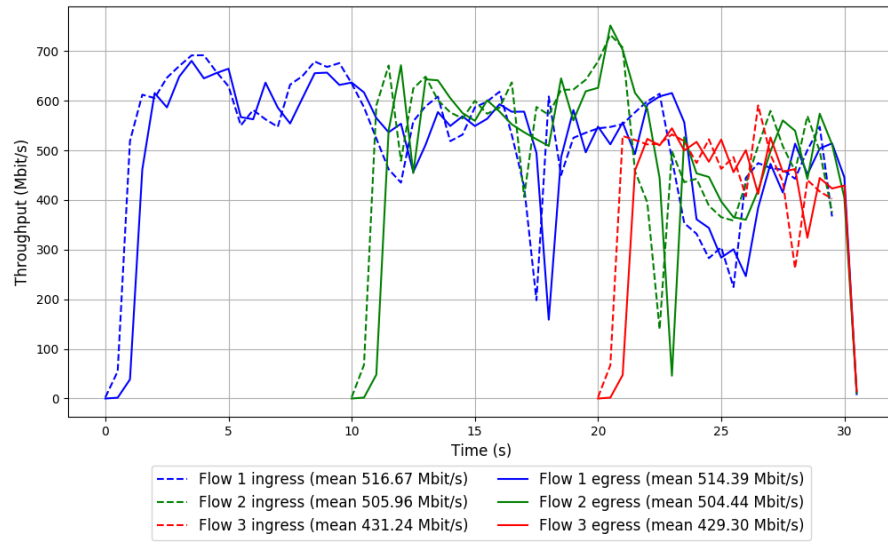
-- Flow 3:

Average throughput: 429.30 Mbit/s

95th percentile per-packet one-way delay: 161.760 ms

Loss rate: 0.45%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-09-26 06:52:54

End at: 2018-09-26 06:53:24

Local clock offset: -0.245 ms

Remote clock offset: 0.182 ms

Below is generated by plot.py at 2018-09-26 07:55:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 988.20 Mbit/s

95th percentile per-packet one-way delay: 153.389 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 540.45 Mbit/s

95th percentile per-packet one-way delay: 151.437 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 470.14 Mbit/s

95th percentile per-packet one-way delay: 131.194 ms

Loss rate: 0.16%

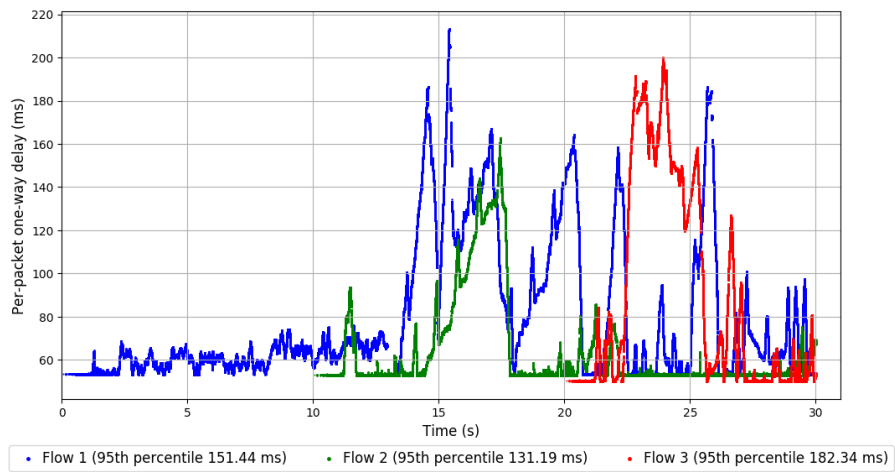
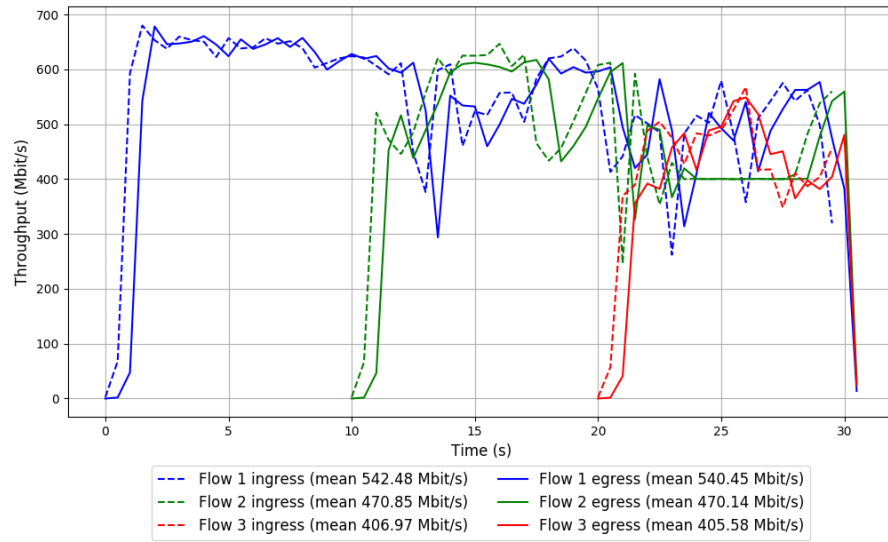
-- Flow 3:

Average throughput: 405.58 Mbit/s

95th percentile per-packet one-way delay: 182.341 ms

Loss rate: 0.33%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-09-26 04:51:02

End at: 2018-09-26 04:51:32

Local clock offset: -0.478 ms

Remote clock offset: 1.435 ms

Below is generated by plot.py at 2018-09-26 07:55:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 534.46 Mbit/s

95th percentile per-packet one-way delay: 70.801 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 293.50 Mbit/s

95th percentile per-packet one-way delay: 58.140 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 216.79 Mbit/s

95th percentile per-packet one-way delay: 75.074 ms

Loss rate: 0.03%

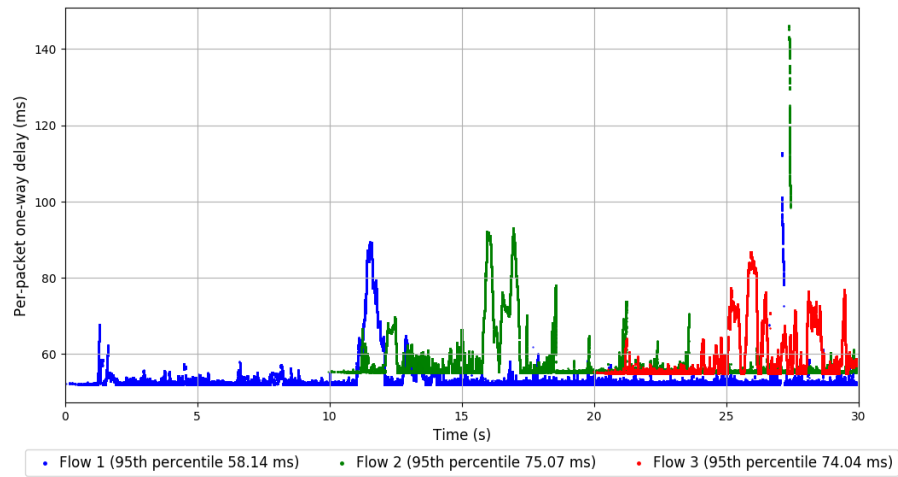
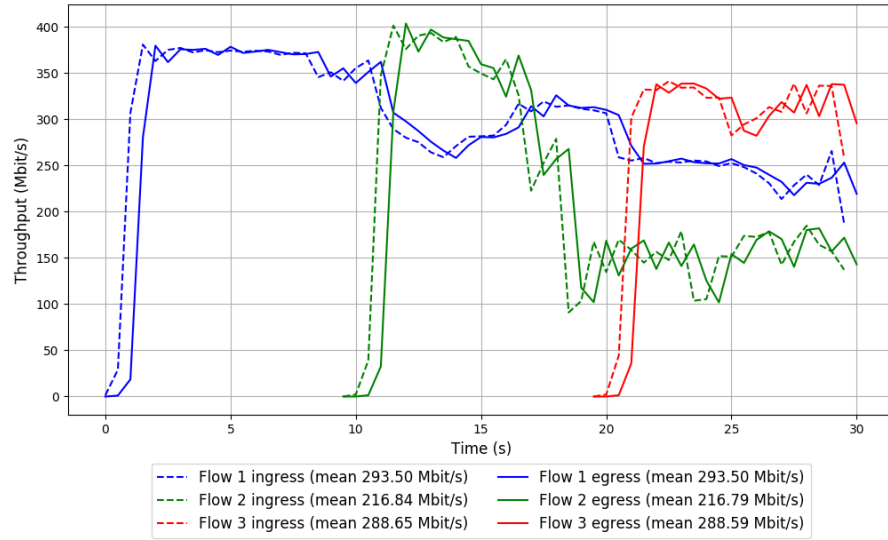
-- Flow 3:

Average throughput: 288.59 Mbit/s

95th percentile per-packet one-way delay: 74.040 ms

Loss rate: 0.03%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-09-26 05:23:49

End at: 2018-09-26 05:24:19

Local clock offset: -0.166 ms

Remote clock offset: 0.144 ms

Below is generated by plot.py at 2018-09-26 07:57:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 595.44 Mbit/s

95th percentile per-packet one-way delay: 68.410 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 292.34 Mbit/s

95th percentile per-packet one-way delay: 72.029 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 324.12 Mbit/s

95th percentile per-packet one-way delay: 60.175 ms

Loss rate: 0.03%

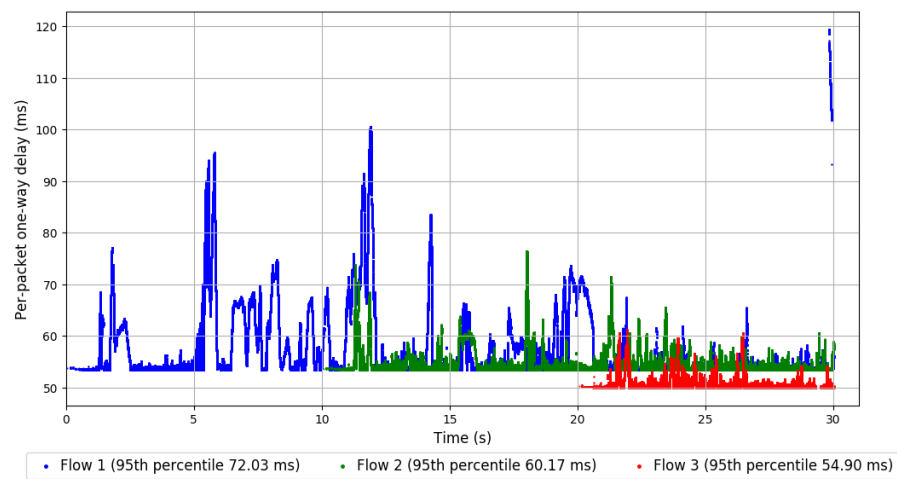
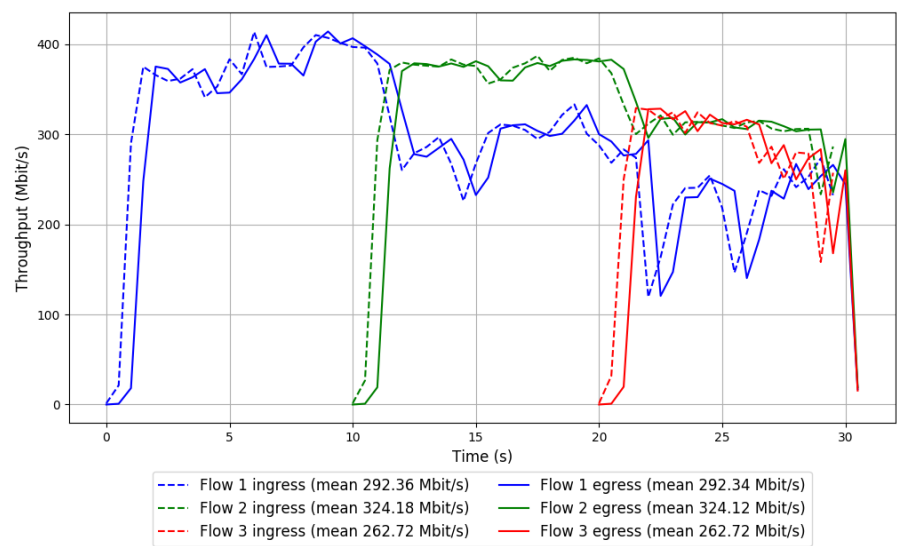
-- Flow 3:

Average throughput: 262.72 Mbit/s

95th percentile per-packet one-way delay: 54.903 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-09-26 05:56:39

End at: 2018-09-26 05:57:09

Local clock offset: -0.347 ms

Remote clock offset: 0.215 ms

Below is generated by plot.py at 2018-09-26 07:57:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 575.45 Mbit/s

95th percentile per-packet one-way delay: 85.494 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 307.90 Mbit/s

95th percentile per-packet one-way delay: 81.571 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 274.46 Mbit/s

95th percentile per-packet one-way delay: 88.218 ms

Loss rate: 0.00%

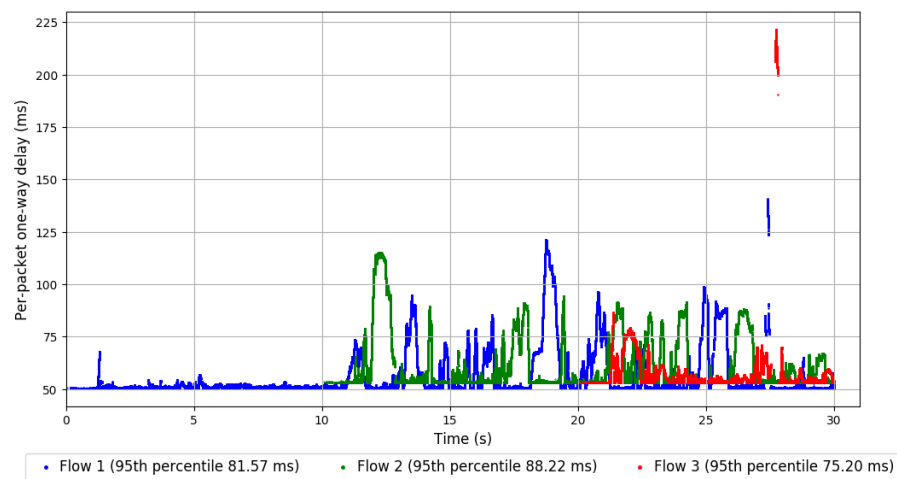
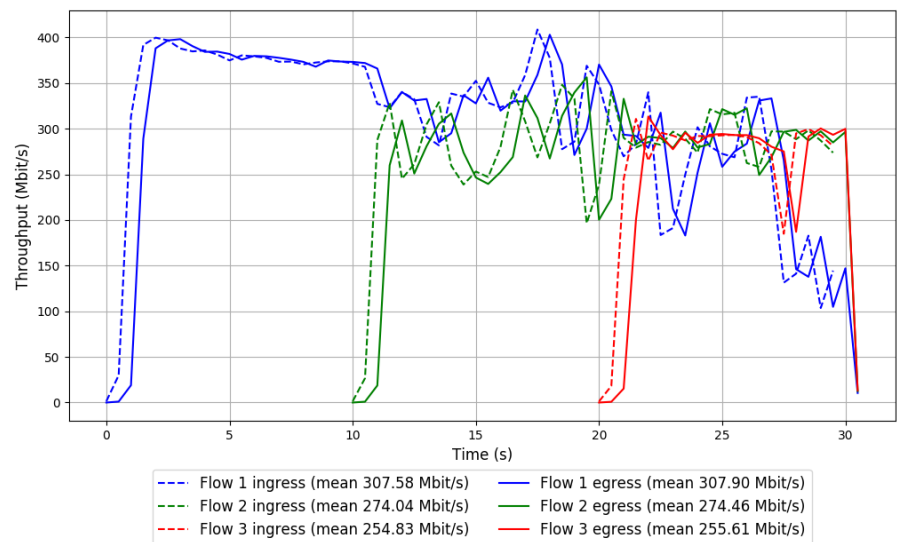
-- Flow 3:

Average throughput: 255.61 Mbit/s

95th percentile per-packet one-way delay: 75.205 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-09-26 06:29:51

End at: 2018-09-26 06:30:21

Local clock offset: 0.021 ms

Remote clock offset: 0.418 ms

Below is generated by plot.py at 2018-09-26 08:13:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 580.44 Mbit/s

95th percentile per-packet one-way delay: 56.993 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 295.85 Mbit/s

95th percentile per-packet one-way delay: 55.208 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 299.25 Mbit/s

95th percentile per-packet one-way delay: 59.867 ms

Loss rate: 0.00%

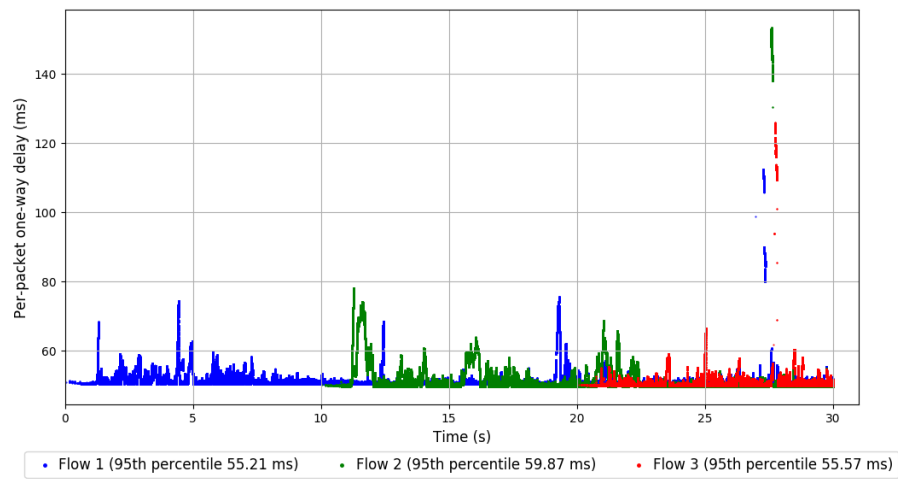
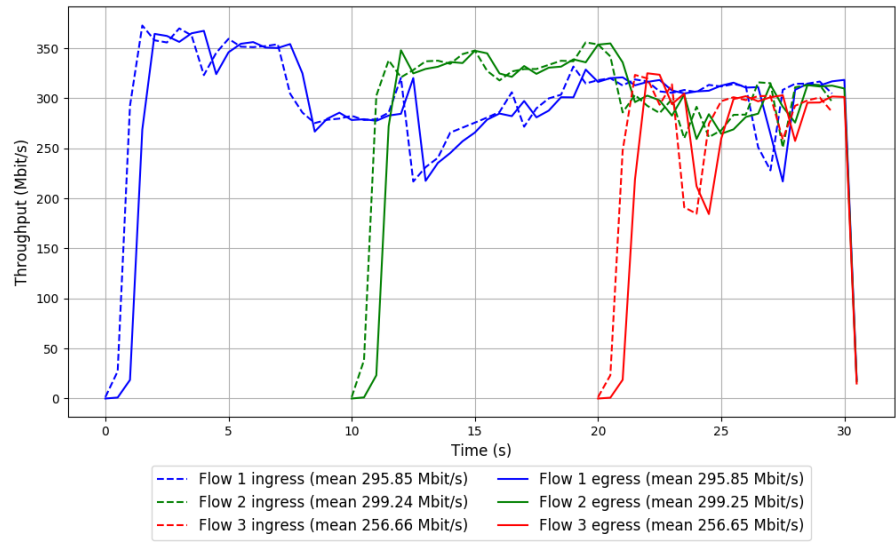
-- Flow 3:

Average throughput: 256.65 Mbit/s

95th percentile per-packet one-way delay: 55.567 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-09-26 07:03:02

End at: 2018-09-26 07:03:32

Local clock offset: -0.233 ms

Remote clock offset: 0.764 ms

Below is generated by plot.py at 2018-09-26 08:14:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 582.83 Mbit/s

95th percentile per-packet one-way delay: 61.943 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 321.41 Mbit/s

95th percentile per-packet one-way delay: 57.164 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 258.31 Mbit/s

95th percentile per-packet one-way delay: 67.782 ms

Loss rate: 0.00%

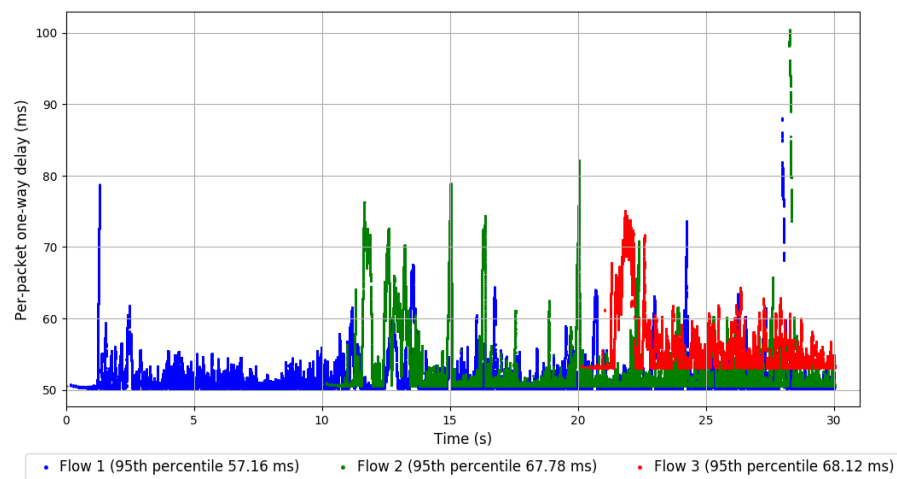
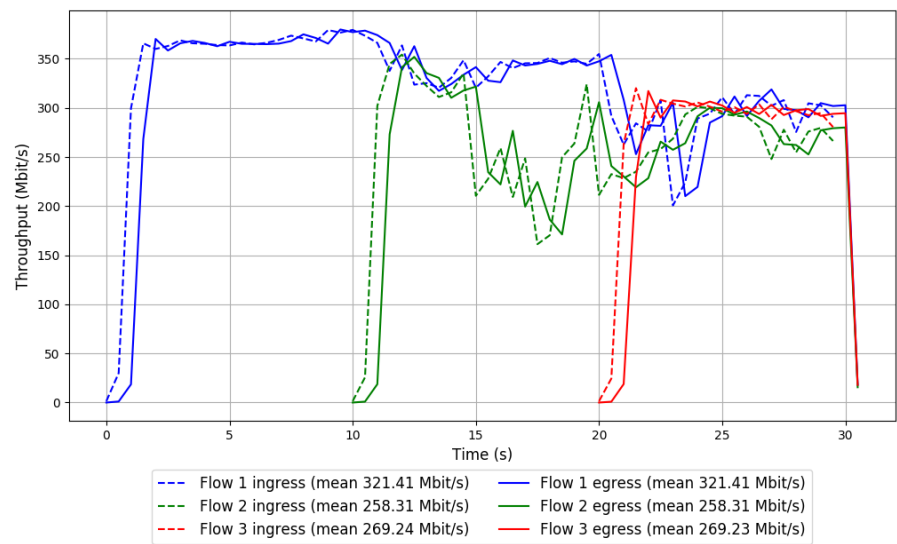
-- Flow 3:

Average throughput: 269.23 Mbit/s

95th percentile per-packet one-way delay: 68.124 ms

Loss rate: 0.01%

Run 5: Report of Copa — Data Link

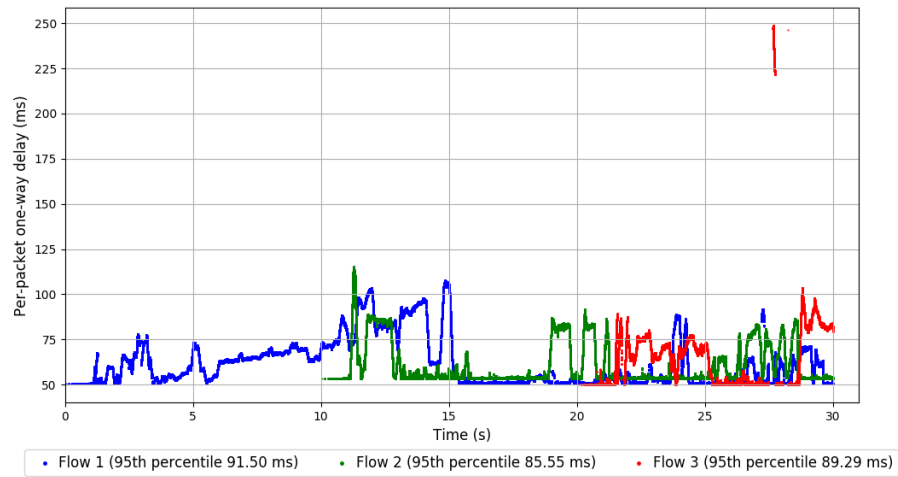
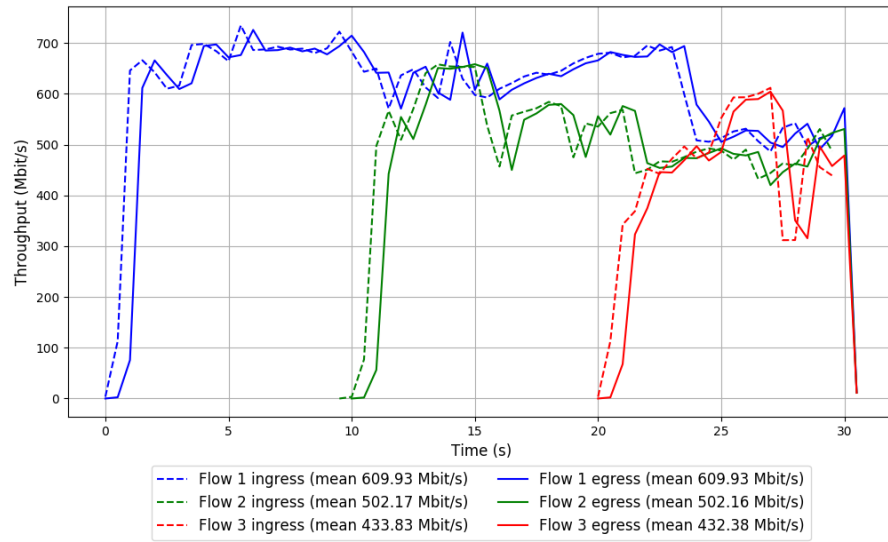


Run 1: Statistics of TCP Cubic

Start at: 2018-09-26 04:38:43
End at: 2018-09-26 04:39:13
Local clock offset: -0.289 ms
Remote clock offset: -0.116 ms

Below is generated by plot.py at 2018-09-26 08:14:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 1088.06 Mbit/s
95th percentile per-packet one-way delay: 87.956 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 609.93 Mbit/s
95th percentile per-packet one-way delay: 91.500 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 502.16 Mbit/s
95th percentile per-packet one-way delay: 85.553 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 432.38 Mbit/s
95th percentile per-packet one-way delay: 89.293 ms
Loss rate: 0.33%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-09-26 05:11:39

End at: 2018-09-26 05:12:09

Local clock offset: -0.132 ms

Remote clock offset: -0.01 ms

Below is generated by plot.py at 2018-09-26 08:14:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 1016.21 Mbit/s

95th percentile per-packet one-way delay: 127.152 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 543.38 Mbit/s

95th percentile per-packet one-way delay: 140.015 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 478.89 Mbit/s

95th percentile per-packet one-way delay: 91.084 ms

Loss rate: 0.01%

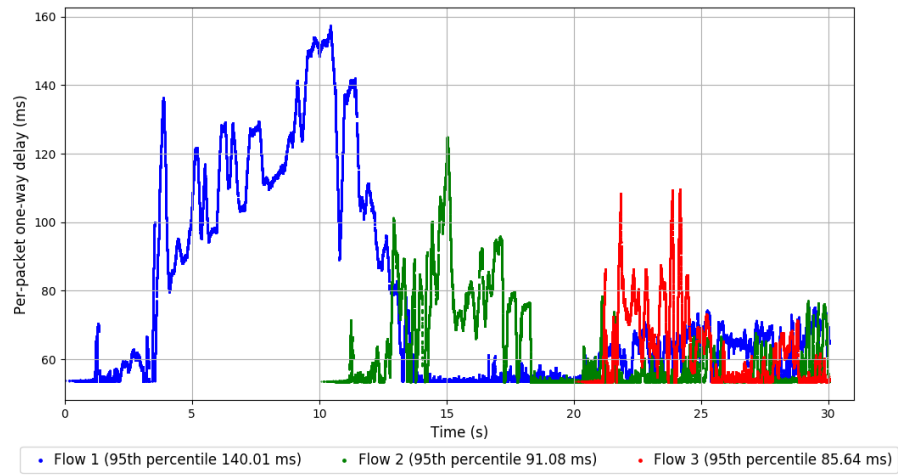
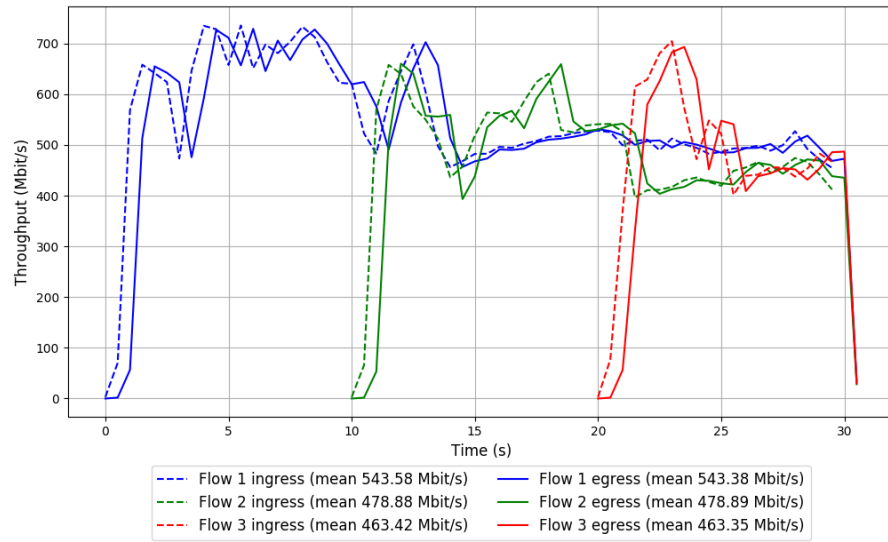
-- Flow 3:

Average throughput: 463.35 Mbit/s

95th percentile per-packet one-way delay: 85.638 ms

Loss rate: 0.03%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-09-26 05:44:31

End at: 2018-09-26 05:45:01

Local clock offset: 0.087 ms

Remote clock offset: 0.219 ms

Below is generated by plot.py at 2018-09-26 08:14:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 1044.75 Mbit/s

95th percentile per-packet one-way delay: 126.711 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 536.37 Mbit/s

95th percentile per-packet one-way delay: 142.624 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 532.81 Mbit/s

95th percentile per-packet one-way delay: 70.392 ms

Loss rate: 0.06%

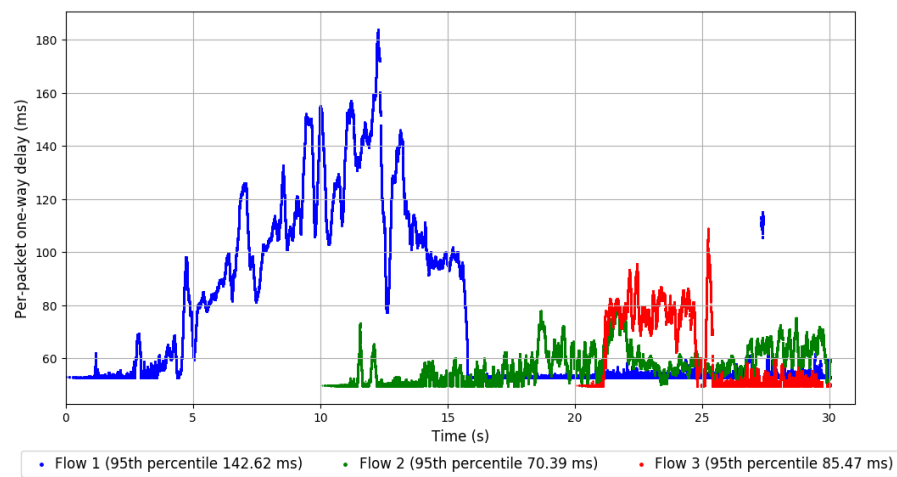
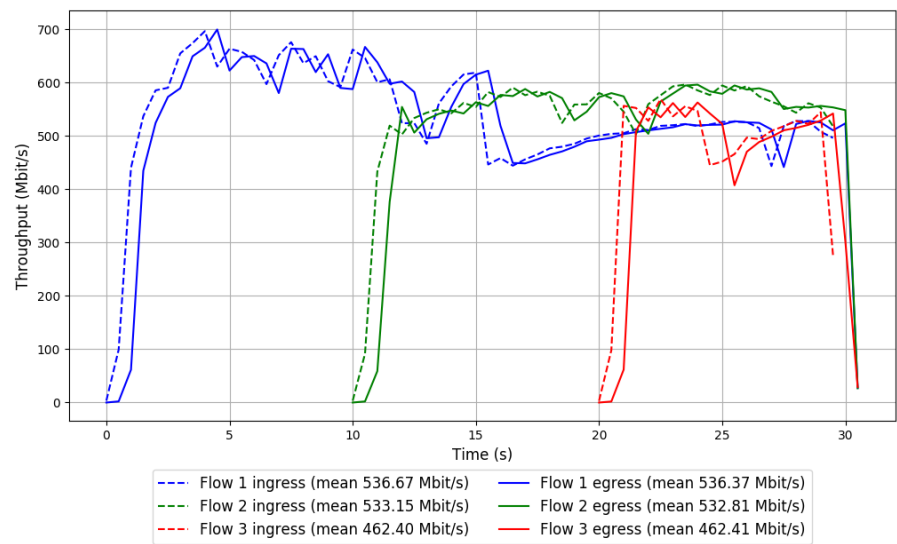
-- Flow 3:

Average throughput: 462.41 Mbit/s

95th percentile per-packet one-way delay: 85.467 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-09-26 06:17:38

End at: 2018-09-26 06:18:08

Local clock offset: -0.202 ms

Remote clock offset: 1.825 ms

Below is generated by plot.py at 2018-09-26 08:15:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 1124.51 Mbit/s

95th percentile per-packet one-way delay: 147.757 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 593.37 Mbit/s

95th percentile per-packet one-way delay: 99.539 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 562.18 Mbit/s

95th percentile per-packet one-way delay: 154.062 ms

Loss rate: 0.18%

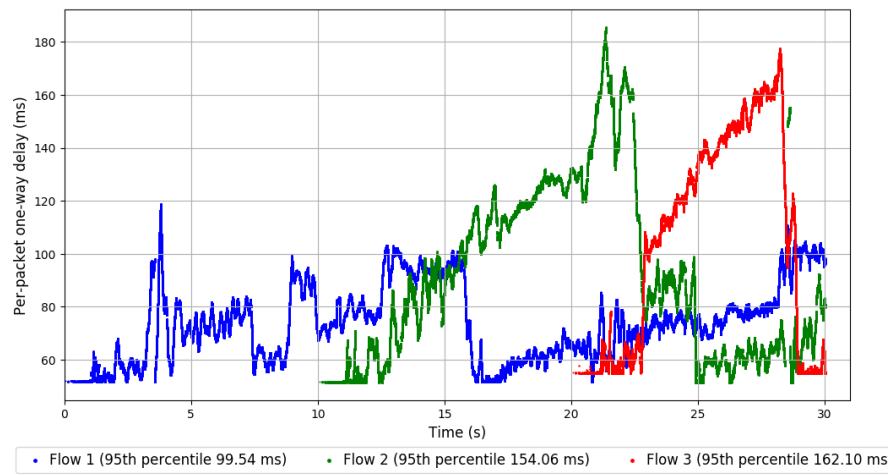
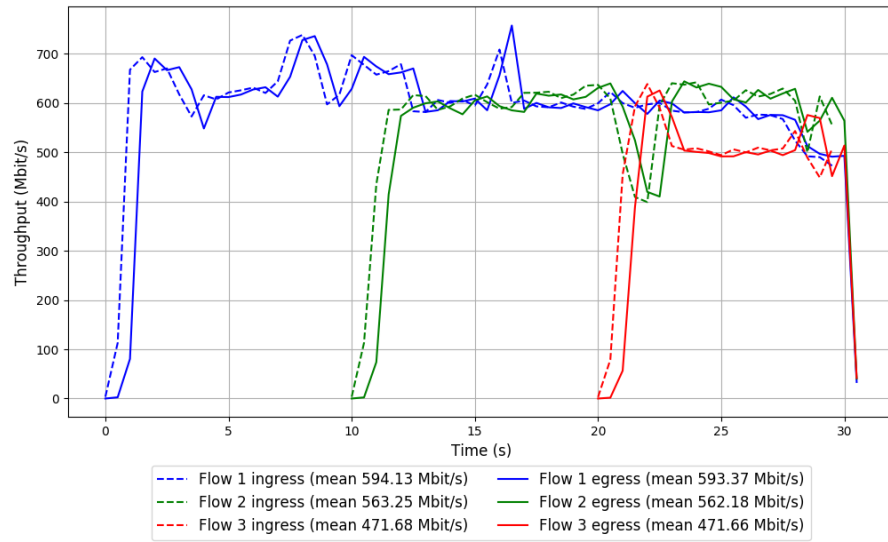
-- Flow 3:

Average throughput: 471.66 Mbit/s

95th percentile per-packet one-way delay: 162.103 ms

Loss rate: 0.03%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-09-26 06:50:49

End at: 2018-09-26 06:51:19

Local clock offset: -0.097 ms

Remote clock offset: 0.491 ms

Below is generated by plot.py at 2018-09-26 08:16:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 1073.42 Mbit/s

95th percentile per-packet one-way delay: 148.643 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 569.08 Mbit/s

95th percentile per-packet one-way delay: 153.586 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 518.10 Mbit/s

95th percentile per-packet one-way delay: 129.201 ms

Loss rate: 0.10%

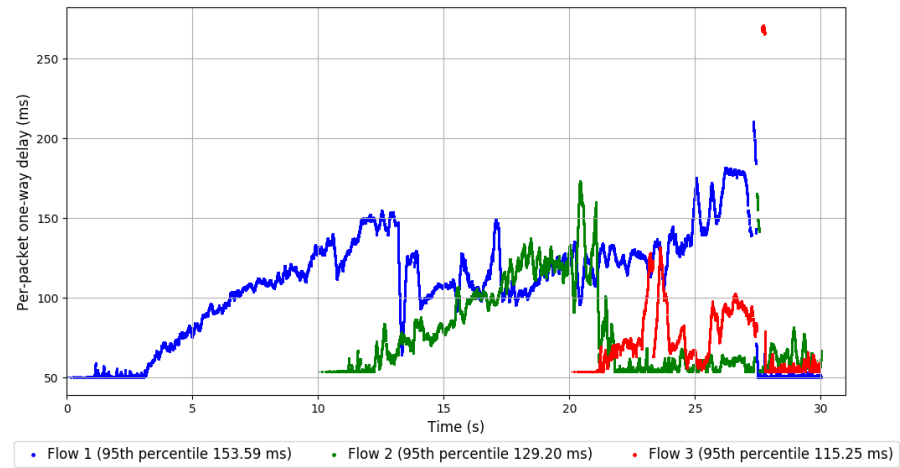
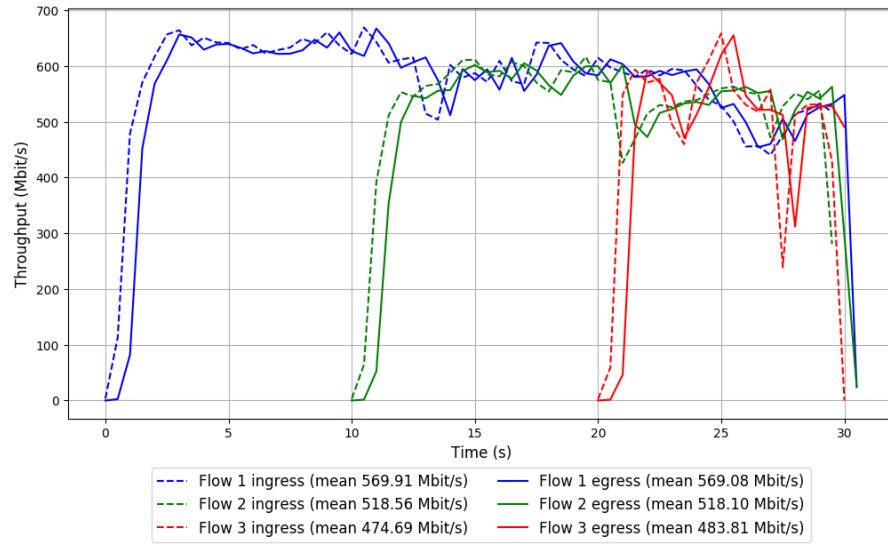
-- Flow 3:

Average throughput: 483.81 Mbit/s

95th percentile per-packet one-way delay: 115.245 ms

Loss rate: 0.02%

Run 5: Report of TCP Cubic — Data Link

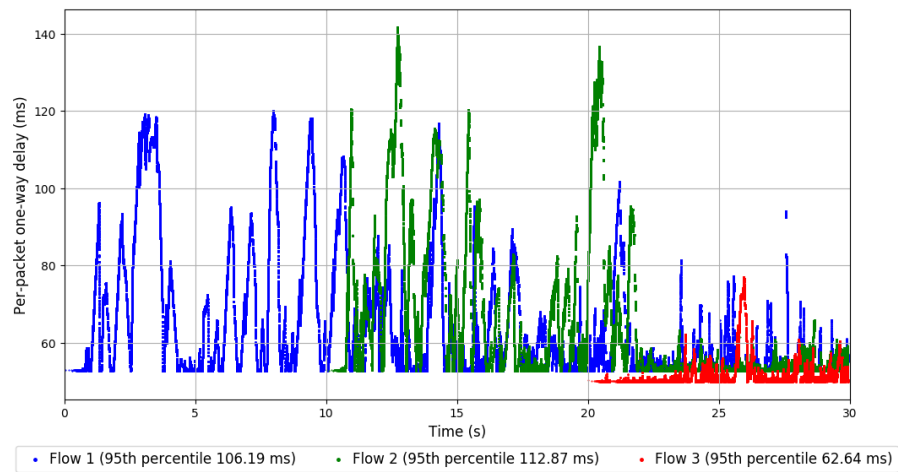
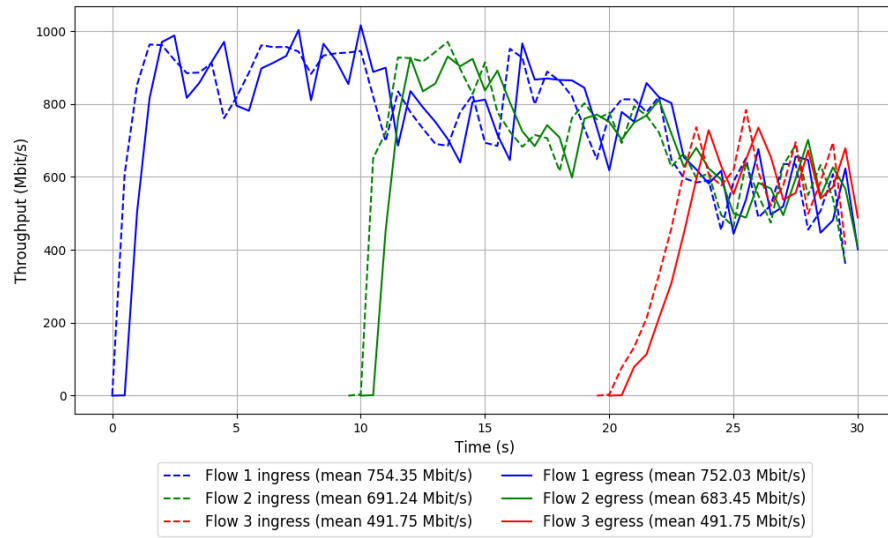


Run 1: Statistics of FillP

Start at: 2018-09-26 04:44:09
End at: 2018-09-26 04:44:39
Local clock offset: -0.172 ms
Remote clock offset: -0.306 ms

Below is generated by plot.py at 2018-09-26 08:25:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 1370.58 Mbit/s
95th percentile per-packet one-way delay: 107.875 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 752.03 Mbit/s
95th percentile per-packet one-way delay: 106.193 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 683.45 Mbit/s
95th percentile per-packet one-way delay: 112.871 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 491.75 Mbit/s
95th percentile per-packet one-way delay: 62.639 ms
Loss rate: 0.00%

Run 1: Report of FillP — Data Link

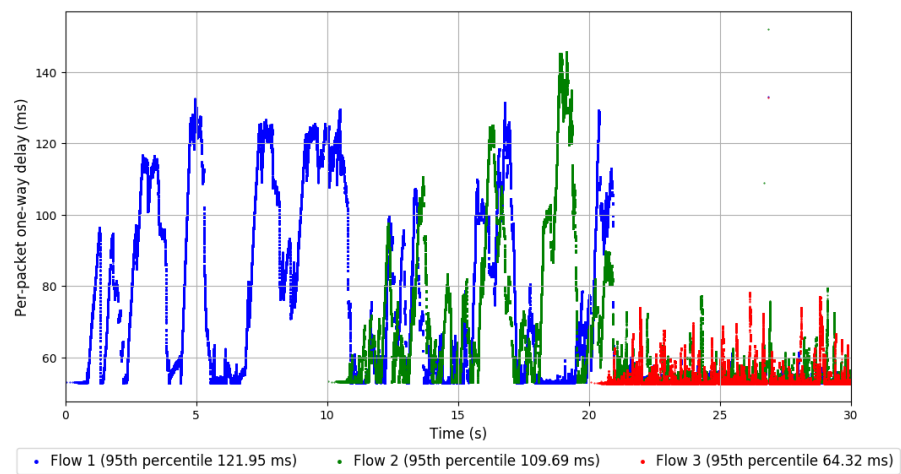
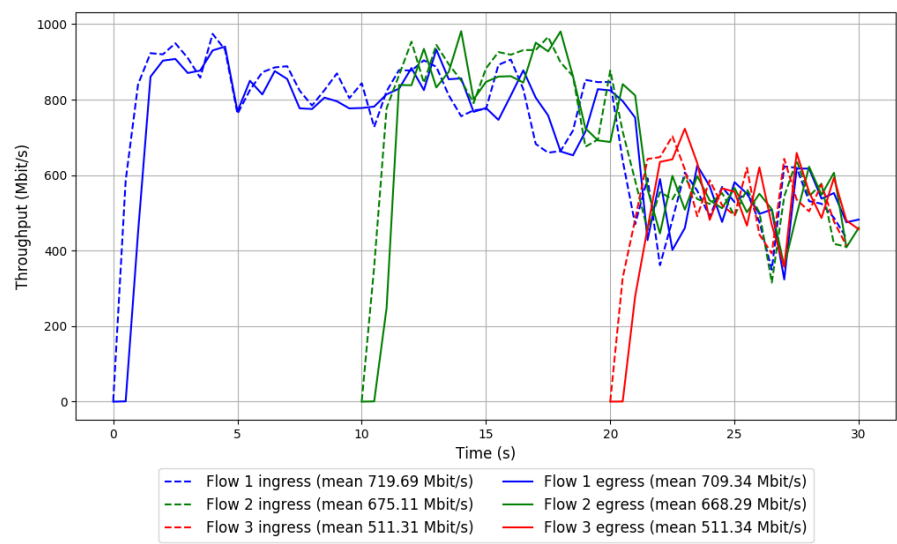


Run 2: Statistics of FillP

Start at: 2018-09-26 05:16:59
End at: 2018-09-26 05:17:29
Local clock offset: -0.037 ms
Remote clock offset: -0.011 ms

Below is generated by plot.py at 2018-09-26 08:42:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 1323.17 Mbit/s
95th percentile per-packet one-way delay: 119.307 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 709.34 Mbit/s
95th percentile per-packet one-way delay: 121.948 ms
Loss rate: 1.44%
-- Flow 2:
Average throughput: 668.29 Mbit/s
95th percentile per-packet one-way delay: 109.685 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 511.34 Mbit/s
95th percentile per-packet one-way delay: 64.320 ms
Loss rate: 0.00%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-09-26 05:49:55

End at: 2018-09-26 05:50:25

Local clock offset: -0.157 ms

Remote clock offset: 1.63 ms

Below is generated by plot.py at 2018-09-26 08:42:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 1309.13 Mbit/s

95th percentile per-packet one-way delay: 114.523 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 694.95 Mbit/s

95th percentile per-packet one-way delay: 117.328 ms

Loss rate: 1.64%

-- Flow 2:

Average throughput: 635.23 Mbit/s

95th percentile per-packet one-way delay: 115.712 ms

Loss rate: 1.31%

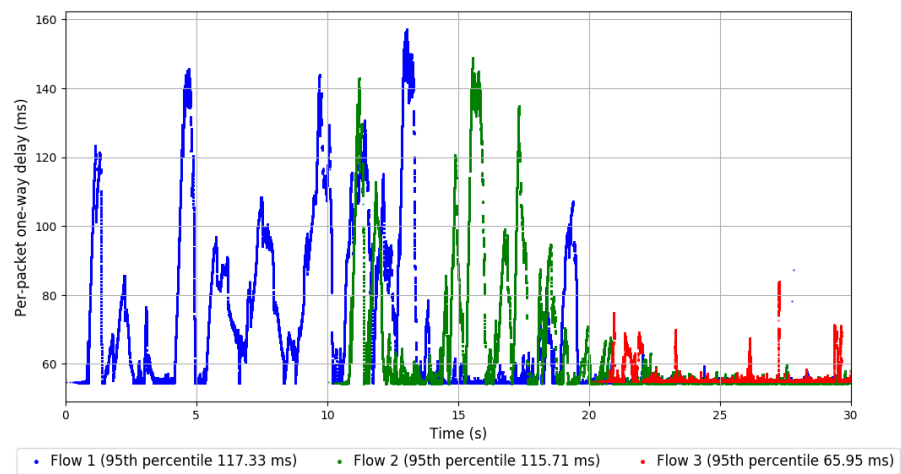
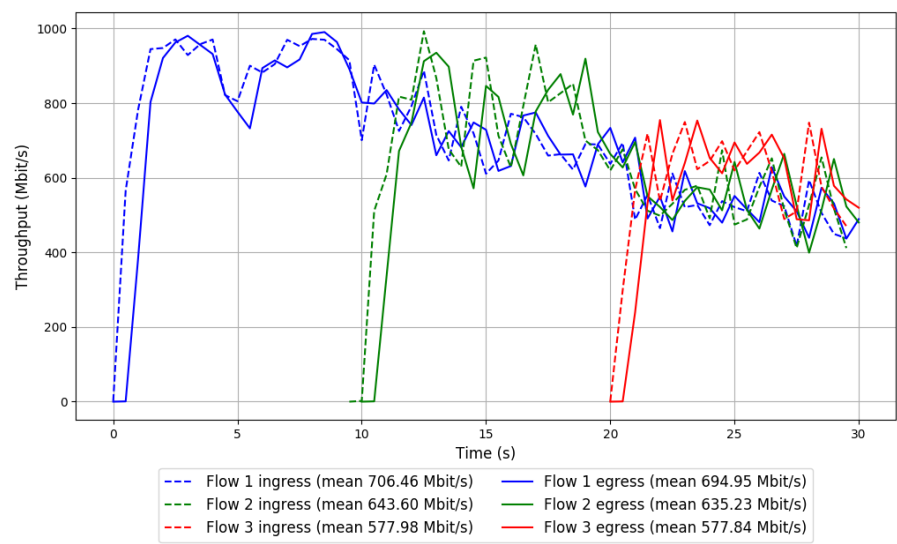
-- Flow 3:

Average throughput: 577.84 Mbit/s

95th percentile per-packet one-way delay: 65.947 ms

Loss rate: 0.06%

Run 3: Report of FillP — Data Link

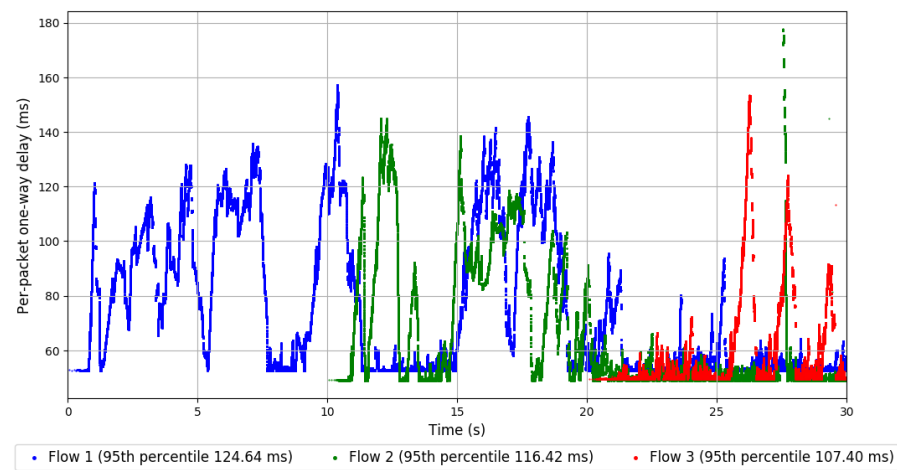
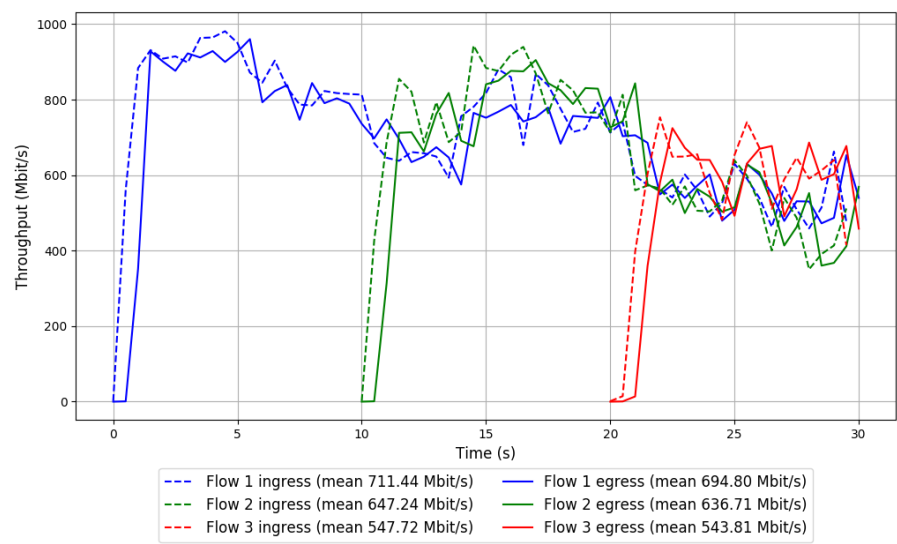


Run 4: Statistics of FillP

Start at: 2018-09-26 06:23:08
End at: 2018-09-26 06:23:38
Local clock offset: -0.186 ms
Remote clock offset: -0.695 ms

Below is generated by plot.py at 2018-09-26 08:42:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 1298.30 Mbit/s
95th percentile per-packet one-way delay: 122.750 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 694.80 Mbit/s
95th percentile per-packet one-way delay: 124.639 ms
Loss rate: 2.35%
-- Flow 2:
Average throughput: 636.71 Mbit/s
95th percentile per-packet one-way delay: 116.417 ms
Loss rate: 1.63%
-- Flow 3:
Average throughput: 543.81 Mbit/s
95th percentile per-packet one-way delay: 107.404 ms
Loss rate: 0.71%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-09-26 06:56:15

End at: 2018-09-26 06:56:45

Local clock offset: -0.029 ms

Remote clock offset: 0.458 ms

Below is generated by plot.py at 2018-09-26 08:43:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 1359.89 Mbit/s

95th percentile per-packet one-way delay: 124.572 ms

Loss rate: 1.87%

-- Flow 1:

Average throughput: 736.84 Mbit/s

95th percentile per-packet one-way delay: 124.445 ms

Loss rate: 1.89%

-- Flow 2:

Average throughput: 656.08 Mbit/s

95th percentile per-packet one-way delay: 129.931 ms

Loss rate: 2.61%

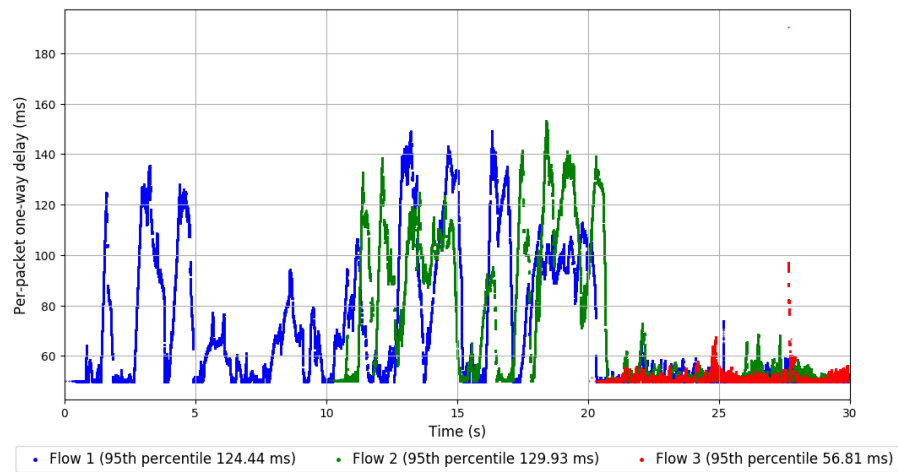
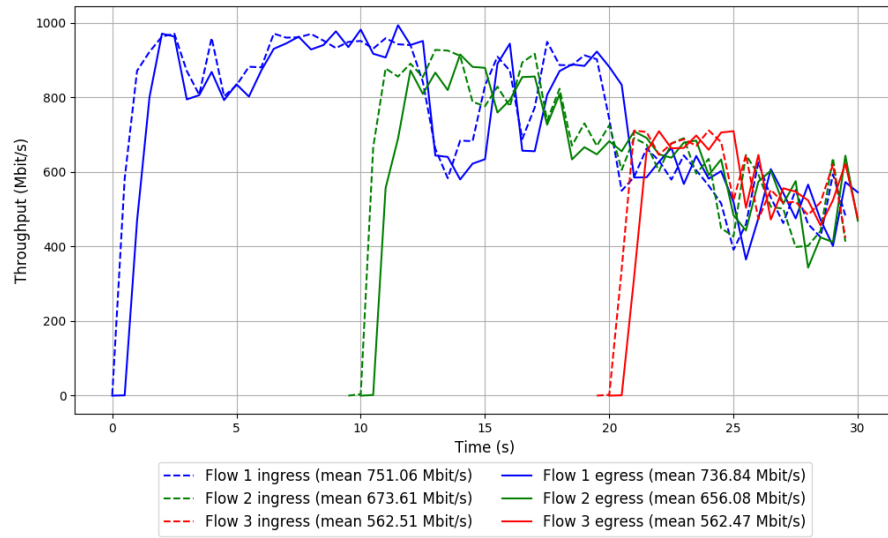
-- Flow 3:

Average throughput: 562.47 Mbit/s

95th percentile per-packet one-way delay: 56.813 ms

Loss rate: 0.00%

Run 5: Report of FillP — Data Link

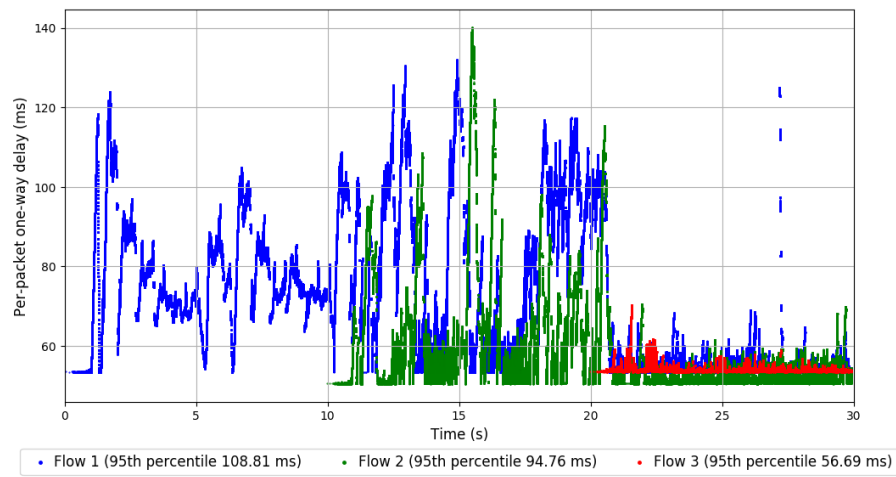
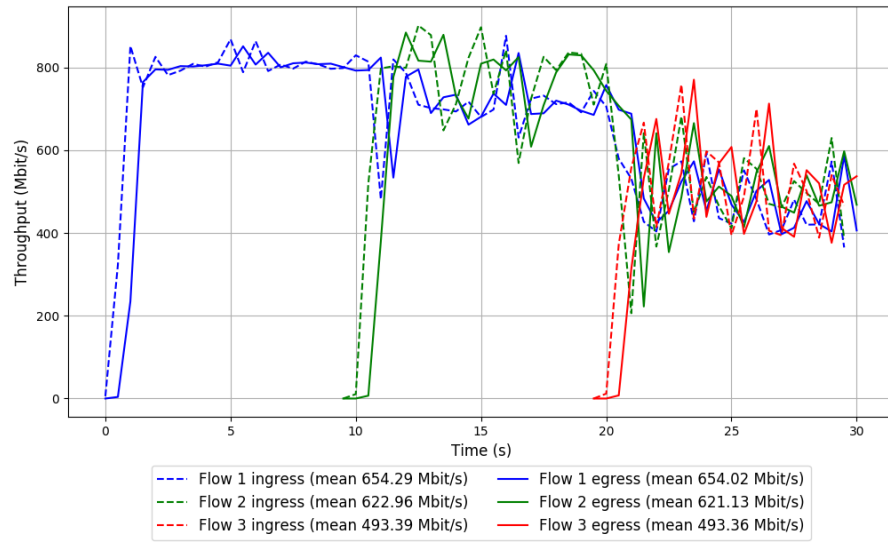


Run 1: Statistics of FillP-Sheep

Start at: 2018-09-26 04:56:11
End at: 2018-09-26 04:56:41
Local clock offset: -0.167 ms
Remote clock offset: -0.185 ms

Below is generated by plot.py at 2018-09-26 08:43:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 1232.52 Mbit/s
95th percentile per-packet one-way delay: 104.718 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 654.02 Mbit/s
95th percentile per-packet one-way delay: 108.810 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 621.13 Mbit/s
95th percentile per-packet one-way delay: 94.764 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 493.36 Mbit/s
95th percentile per-packet one-way delay: 56.685 ms
Loss rate: 0.05%

Run 1: Report of FillP-Sheep — Data Link

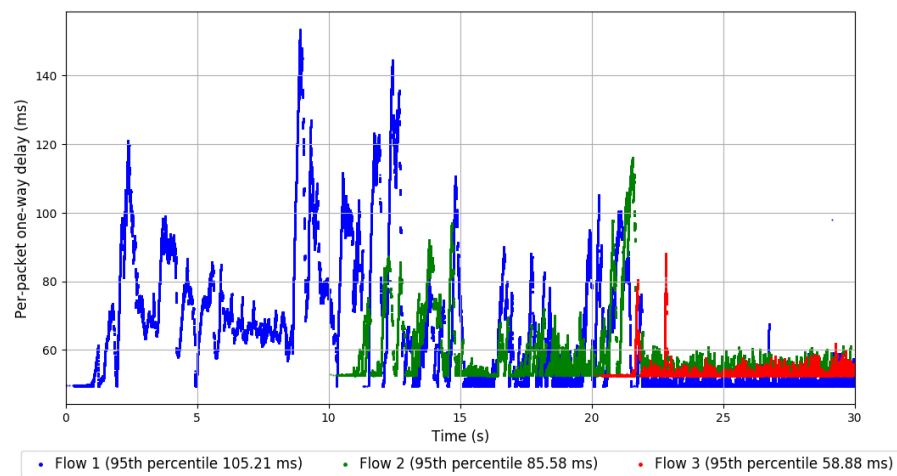
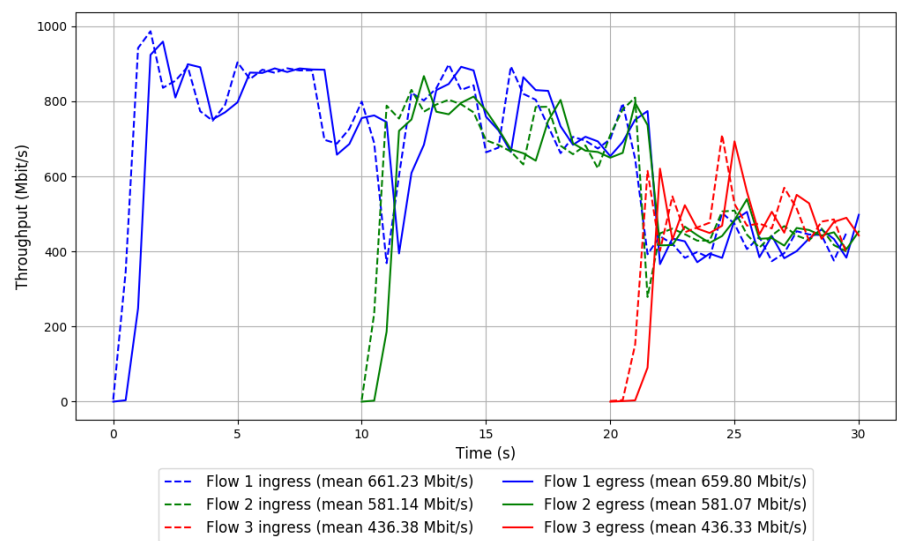


Run 2: Statistics of FillP-Sheep

Start at: 2018-09-26 05:29:12
End at: 2018-09-26 05:29:42
Local clock offset: -0.312 ms
Remote clock offset: -1.006 ms

Below is generated by plot.py at 2018-09-26 08:43:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 1190.60 Mbit/s
95th percentile per-packet one-way delay: 97.014 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 659.80 Mbit/s
95th percentile per-packet one-way delay: 105.207 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 581.07 Mbit/s
95th percentile per-packet one-way delay: 85.578 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 436.33 Mbit/s
95th percentile per-packet one-way delay: 58.882 ms
Loss rate: 0.00%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-09-26 06:01:50

End at: 2018-09-26 06:02:20

Local clock offset: -0.214 ms

Remote clock offset: 1.674 ms

Below is generated by plot.py at 2018-09-26 08:43:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 1253.40 Mbit/s

95th percentile per-packet one-way delay: 96.239 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 689.89 Mbit/s

95th percentile per-packet one-way delay: 96.796 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 612.48 Mbit/s

95th percentile per-packet one-way delay: 98.780 ms

Loss rate: 0.07%

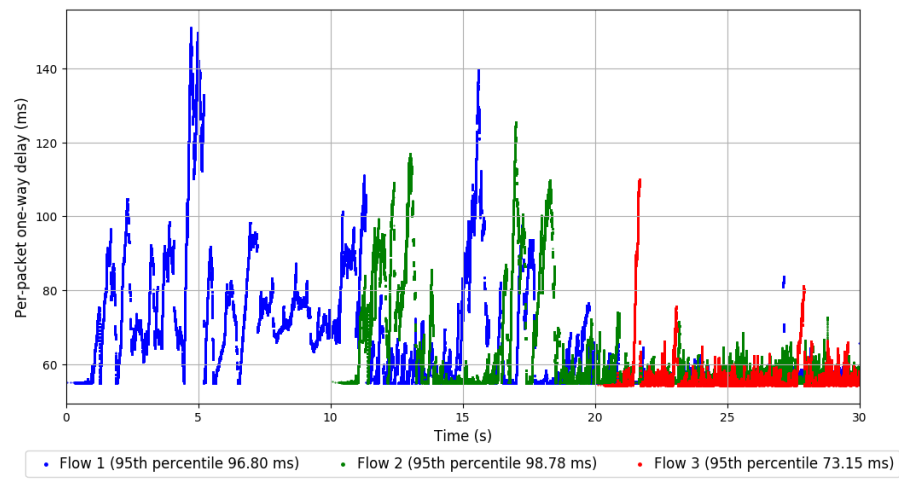
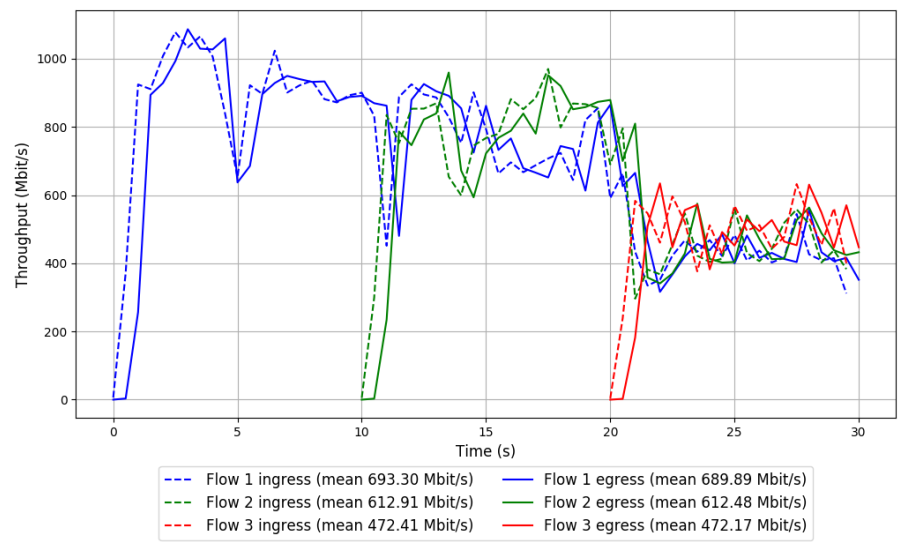
-- Flow 3:

Average throughput: 472.17 Mbit/s

95th percentile per-packet one-way delay: 73.149 ms

Loss rate: 0.09%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-09-26 06:35:07

End at: 2018-09-26 06:35:37

Local clock offset: -0.174 ms

Remote clock offset: 0.369 ms

Below is generated by plot.py at 2018-09-26 08:59:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 1303.91 Mbit/s

95th percentile per-packet one-way delay: 88.517 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 710.65 Mbit/s

95th percentile per-packet one-way delay: 93.408 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 628.94 Mbit/s

95th percentile per-packet one-way delay: 74.982 ms

Loss rate: 0.00%

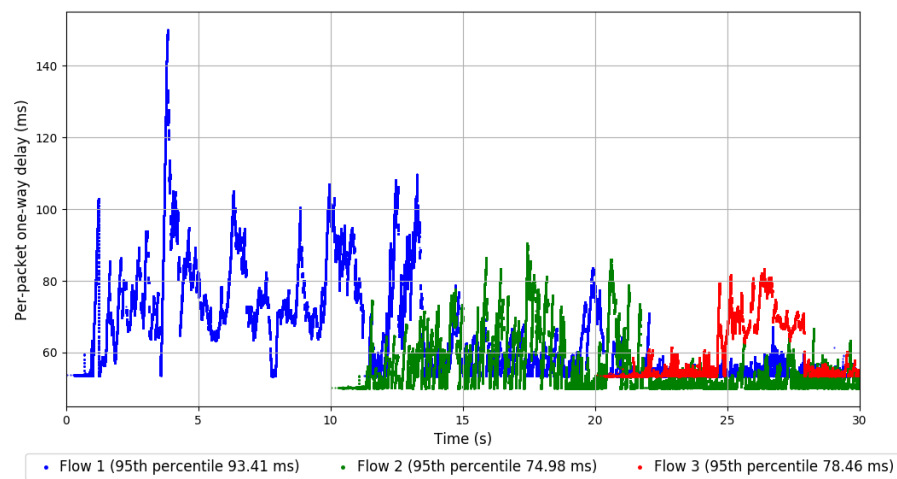
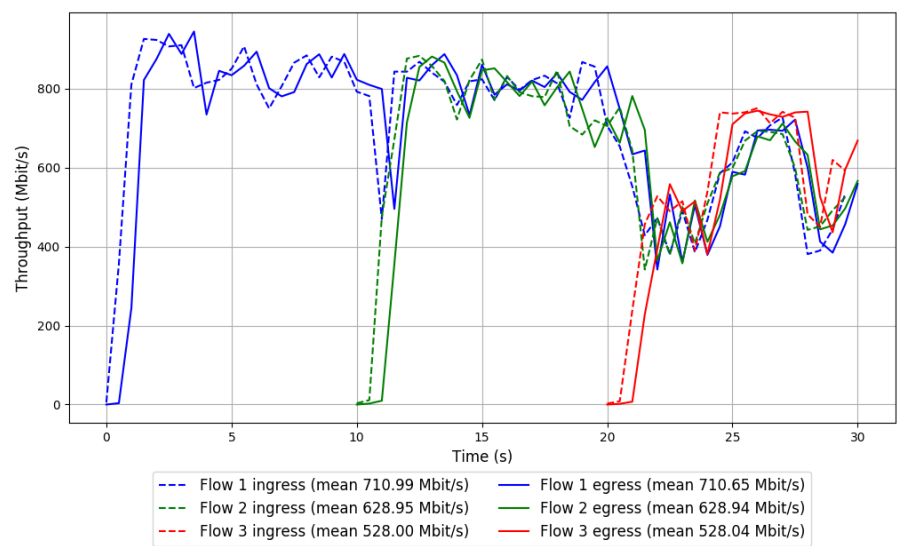
-- Flow 3:

Average throughput: 528.04 Mbit/s

95th percentile per-packet one-way delay: 78.457 ms

Loss rate: 0.04%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-09-26 07:08:15

End at: 2018-09-26 07:08:45

Local clock offset: -0.419 ms

Remote clock offset: 0.9 ms

Below is generated by plot.py at 2018-09-26 09:07:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 1155.05 Mbit/s

95th percentile per-packet one-way delay: 96.356 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 649.51 Mbit/s

95th percentile per-packet one-way delay: 102.404 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 544.15 Mbit/s

95th percentile per-packet one-way delay: 65.699 ms

Loss rate: 0.00%

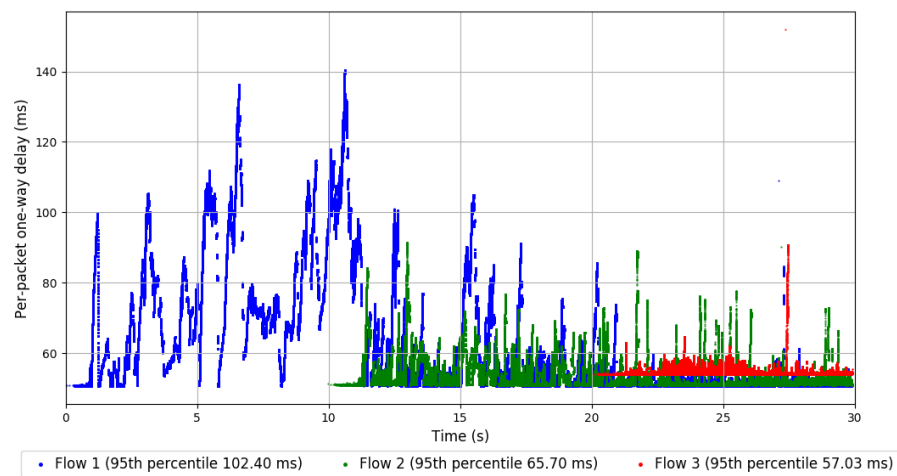
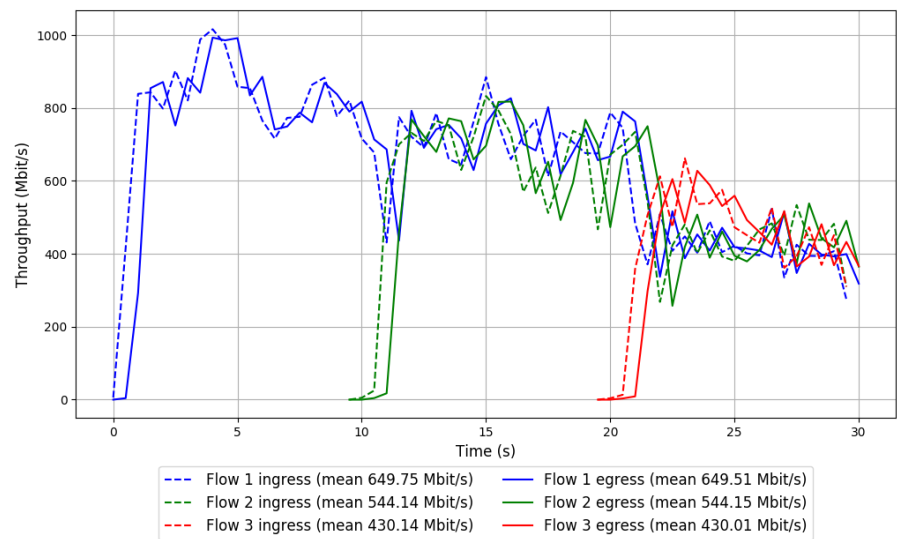
-- Flow 3:

Average throughput: 430.01 Mbit/s

95th percentile per-packet one-way delay: 57.026 ms

Loss rate: 0.03%

Run 5: Report of FillP-Sheep — Data Link

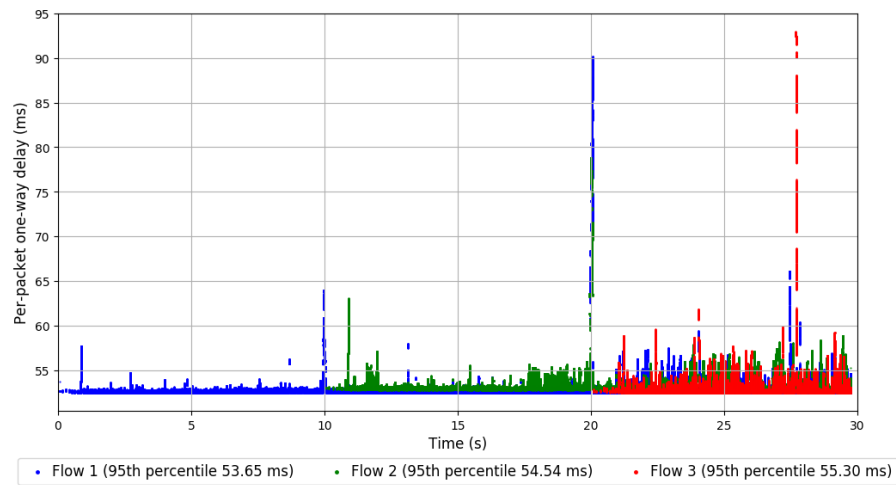
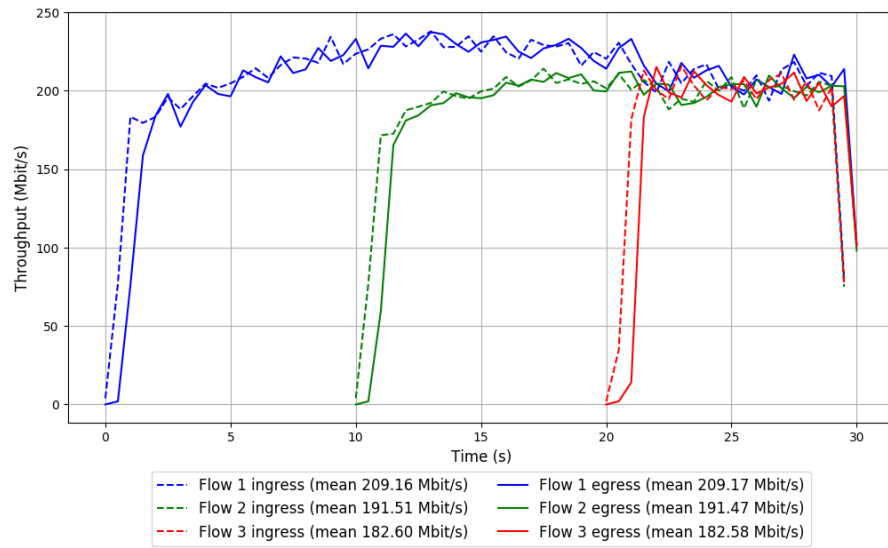


Run 1: Statistics of Indigo

Start at: 2018-09-26 04:47:25
End at: 2018-09-26 04:47:55
Local clock offset: -0.046 ms
Remote clock offset: -0.502 ms

Below is generated by plot.py at 2018-09-26 09:07:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 395.43 Mbit/s
95th percentile per-packet one-way delay: 54.320 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 209.17 Mbit/s
95th percentile per-packet one-way delay: 53.645 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 191.47 Mbit/s
95th percentile per-packet one-way delay: 54.536 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 182.58 Mbit/s
95th percentile per-packet one-way delay: 55.301 ms
Loss rate: 0.03%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-09-26 05:20:14

End at: 2018-09-26 05:20:44

Local clock offset: -0.181 ms

Remote clock offset: 0.275 ms

Below is generated by plot.py at 2018-09-26 09:07:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 386.24 Mbit/s

95th percentile per-packet one-way delay: 54.021 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 202.45 Mbit/s

95th percentile per-packet one-way delay: 54.333 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 192.71 Mbit/s

95th percentile per-packet one-way delay: 51.755 ms

Loss rate: 0.00%

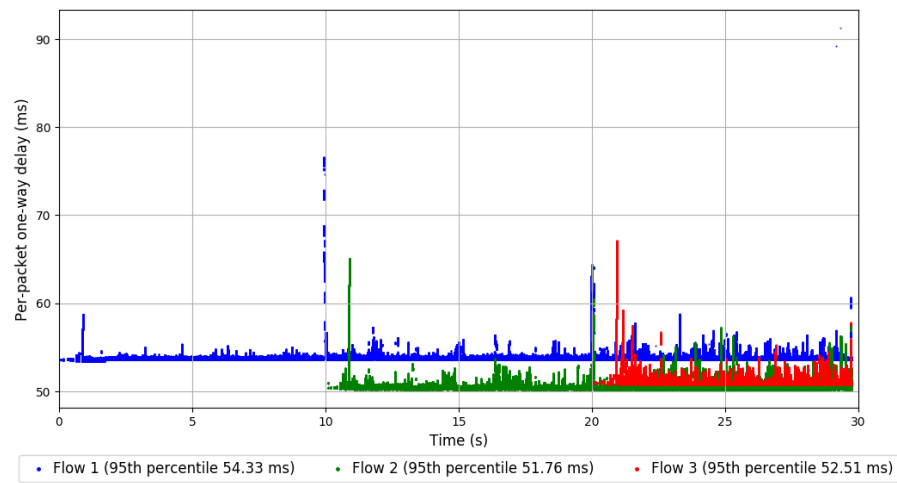
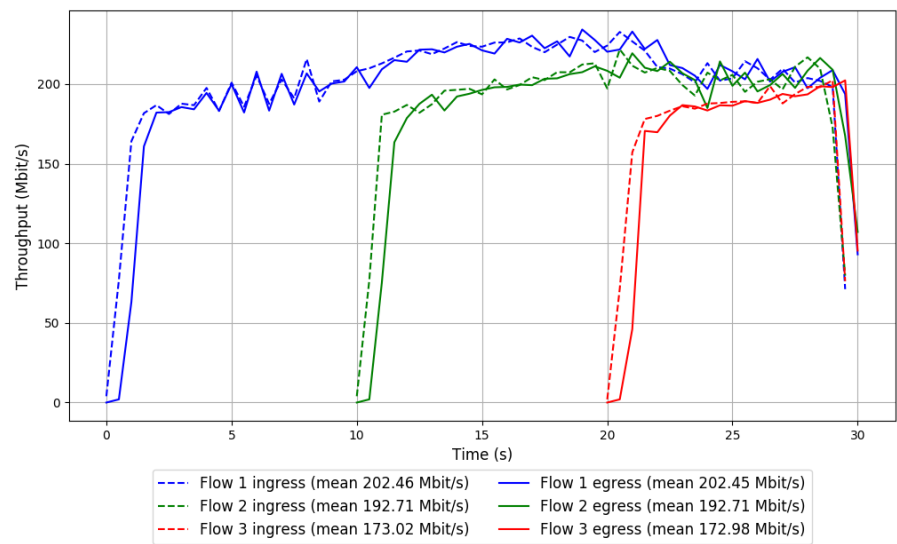
-- Flow 3:

Average throughput: 172.98 Mbit/s

95th percentile per-packet one-way delay: 52.510 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

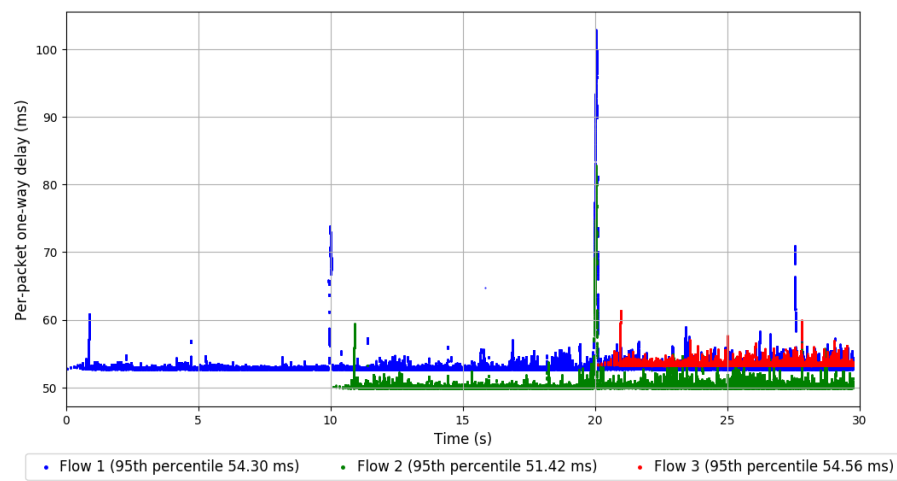
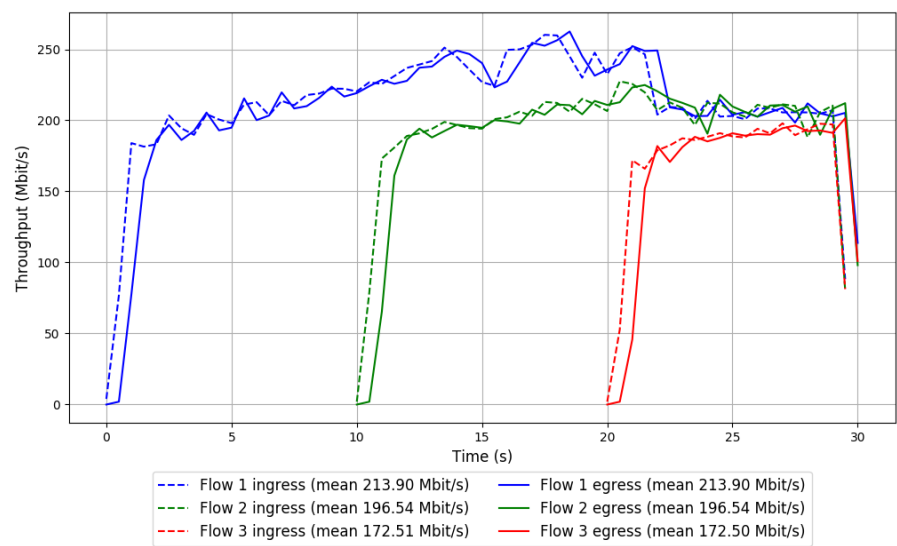


Run 3: Statistics of Indigo

Start at: 2018-09-26 05:53:09
End at: 2018-09-26 05:53:39
Local clock offset: -0.208 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-09-26 09:07:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 399.92 Mbit/s
95th percentile per-packet one-way delay: 54.044 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 213.90 Mbit/s
95th percentile per-packet one-way delay: 54.295 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 196.54 Mbit/s
95th percentile per-packet one-way delay: 51.416 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 172.50 Mbit/s
95th percentile per-packet one-way delay: 54.562 ms
Loss rate: 0.02%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-09-26 06:26:21

End at: 2018-09-26 06:26:51

Local clock offset: -0.186 ms

Remote clock offset: 0.377 ms

Below is generated by plot.py at 2018-09-26 09:07:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 393.99 Mbit/s

95th percentile per-packet one-way delay: 54.340 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 207.16 Mbit/s

95th percentile per-packet one-way delay: 51.929 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 198.16 Mbit/s

95th percentile per-packet one-way delay: 55.682 ms

Loss rate: 0.01%

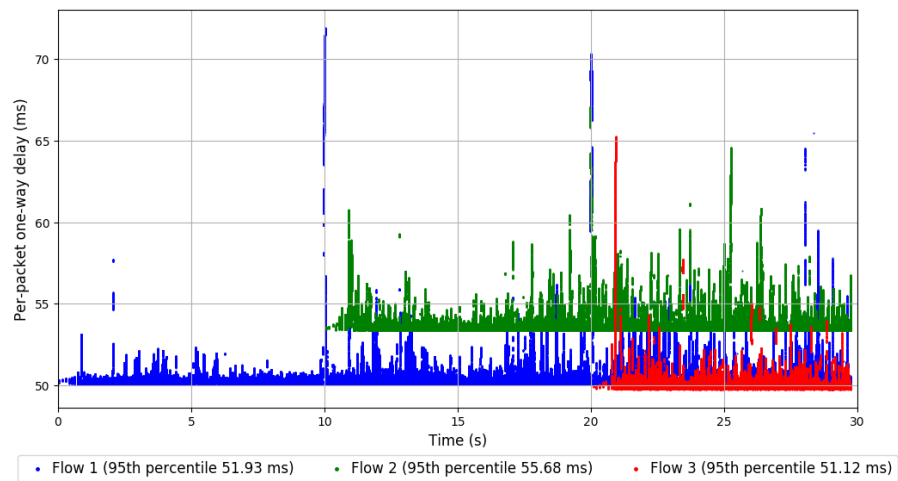
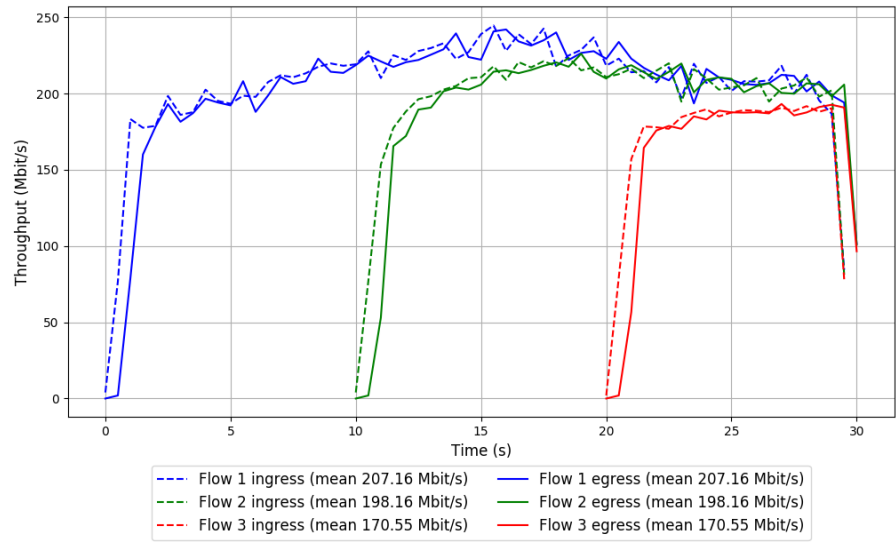
-- Flow 3:

Average throughput: 170.55 Mbit/s

95th percentile per-packet one-way delay: 51.122 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-09-26 06:59:31

End at: 2018-09-26 07:00:01

Local clock offset: -0.131 ms

Remote clock offset: 0.541 ms

Below is generated by plot.py at 2018-09-26 09:07:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 396.28 Mbit/s

95th percentile per-packet one-way delay: 54.505 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 212.83 Mbit/s

95th percentile per-packet one-way delay: 54.590 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 191.17 Mbit/s

95th percentile per-packet one-way delay: 54.644 ms

Loss rate: 0.00%

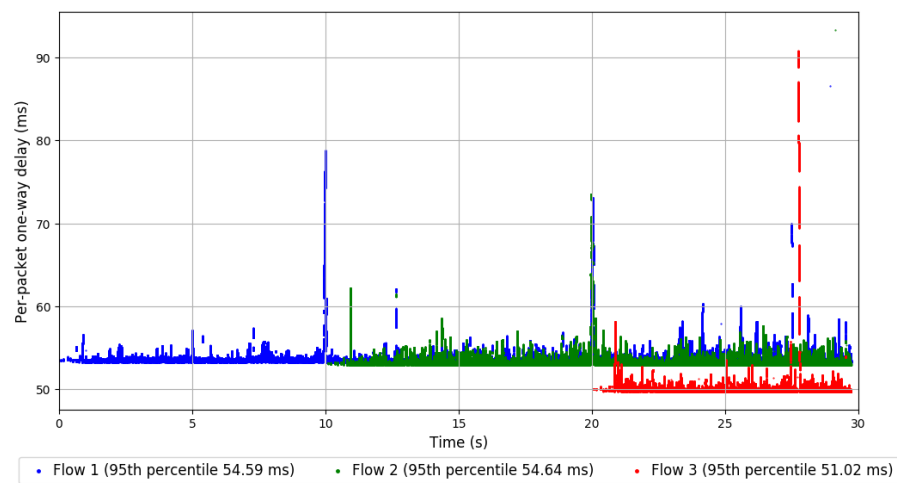
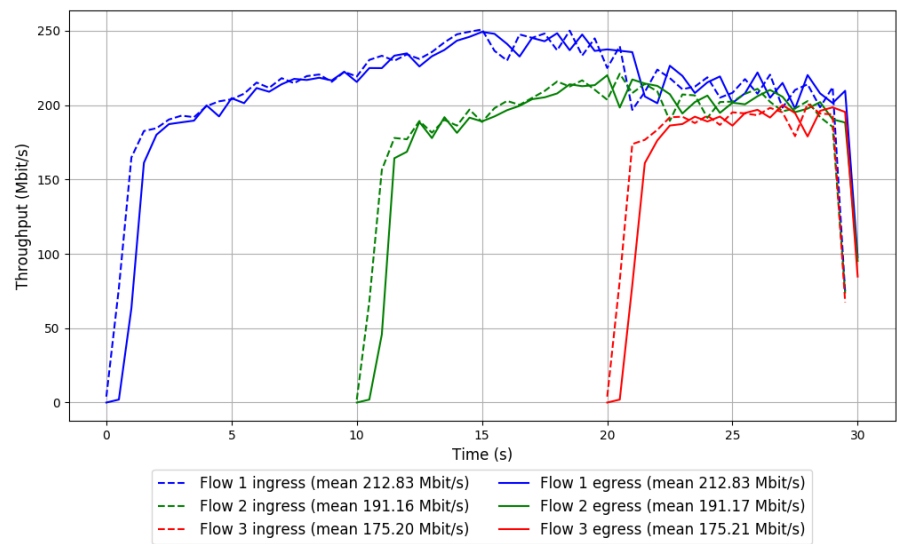
-- Flow 3:

Average throughput: 175.21 Mbit/s

95th percentile per-packet one-way delay: 51.021 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link

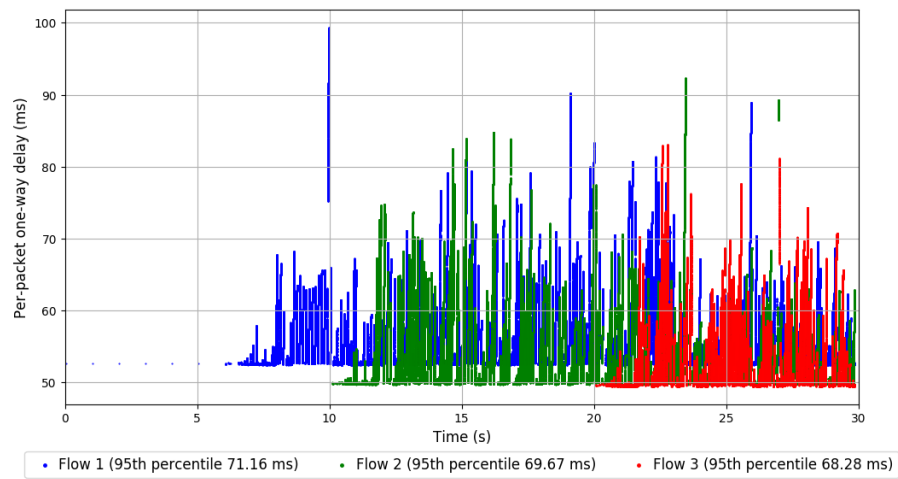
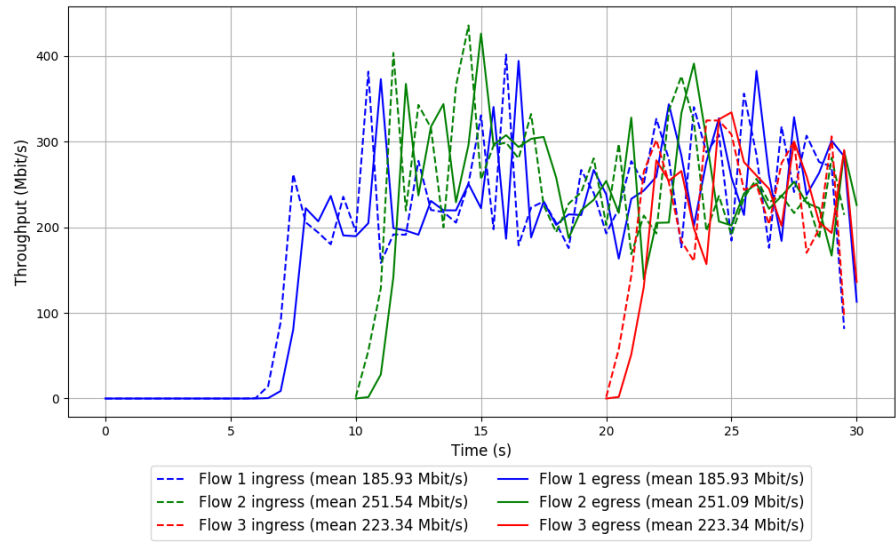


Run 1: Statistics of Indigo-96d2da3

Start at: 2018-09-26 04:35:10
End at: 2018-09-26 04:35:40
Local clock offset: -0.421 ms
Remote clock offset: -0.885 ms

Below is generated by plot.py at 2018-09-26 09:07:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 425.58 Mbit/s
95th percentile per-packet one-way delay: 69.917 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 185.93 Mbit/s
95th percentile per-packet one-way delay: 71.162 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 251.09 Mbit/s
95th percentile per-packet one-way delay: 69.670 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 223.34 Mbit/s
95th percentile per-packet one-way delay: 68.278 ms
Loss rate: 0.00%

Run 1: Report of Indigo-96d2da3 — Data Link

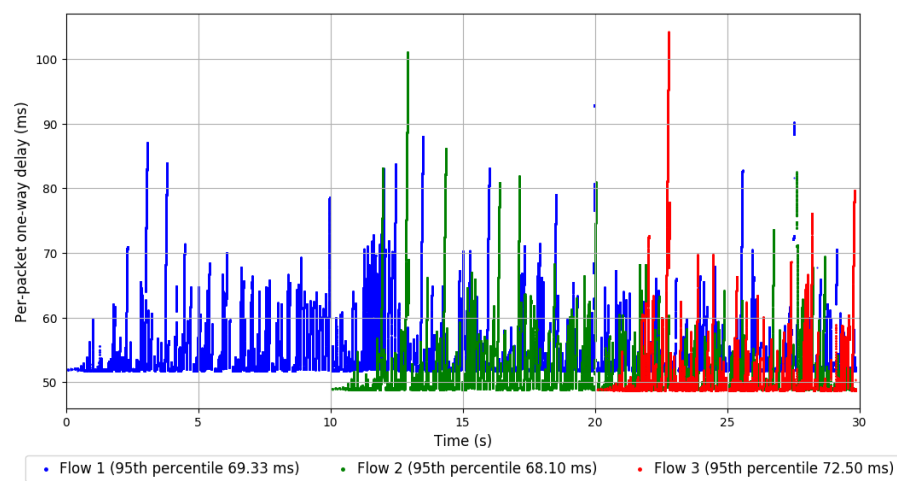
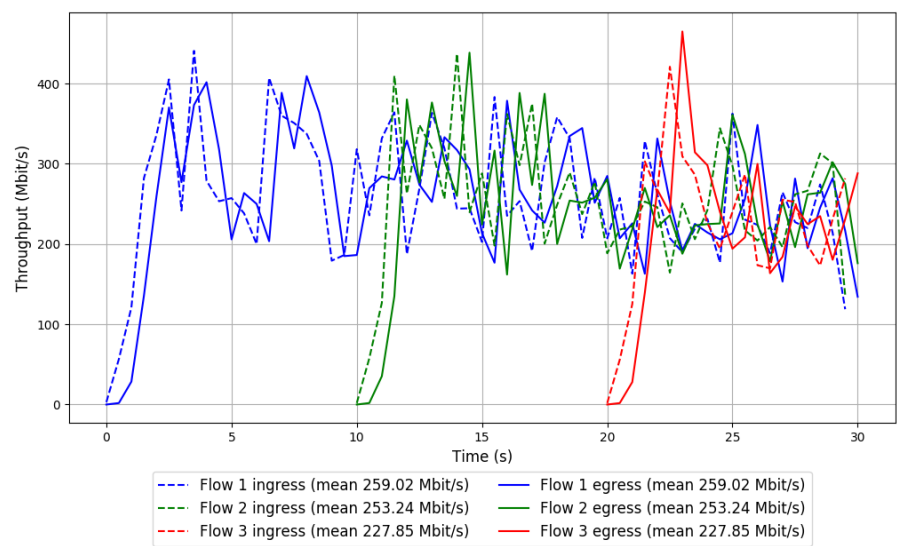


Run 2: Statistics of Indigo-96d2da3

Start at: 2018-09-26 05:08:01
End at: 2018-09-26 05:08:31
Local clock offset: -0.068 ms
Remote clock offset: -1.207 ms

Below is generated by plot.py at 2018-09-26 09:07:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 501.20 Mbit/s
95th percentile per-packet one-way delay: 69.343 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 259.02 Mbit/s
95th percentile per-packet one-way delay: 69.328 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 253.24 Mbit/s
95th percentile per-packet one-way delay: 68.104 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 227.85 Mbit/s
95th percentile per-packet one-way delay: 72.501 ms
Loss rate: 0.00%

Run 2: Report of Indigo-96d2da3 — Data Link



Run 3: Statistics of Indigo-96d2da3

Start at: 2018-09-26 05:40:51

End at: 2018-09-26 05:41:21

Local clock offset: -0.292 ms

Remote clock offset: 0.341 ms

Below is generated by plot.py at 2018-09-26 09:07:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 509.58 Mbit/s

95th percentile per-packet one-way delay: 72.205 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 268.53 Mbit/s

95th percentile per-packet one-way delay: 70.320 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 248.48 Mbit/s

95th percentile per-packet one-way delay: 69.016 ms

Loss rate: 0.00%

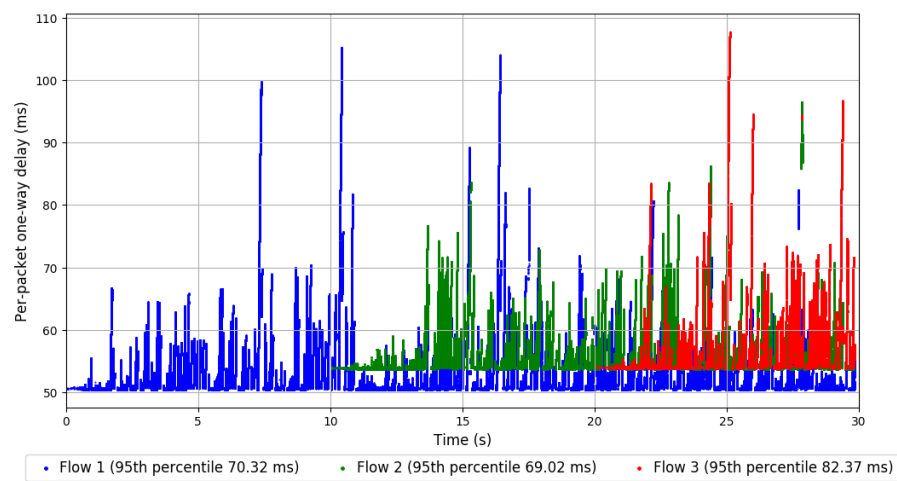
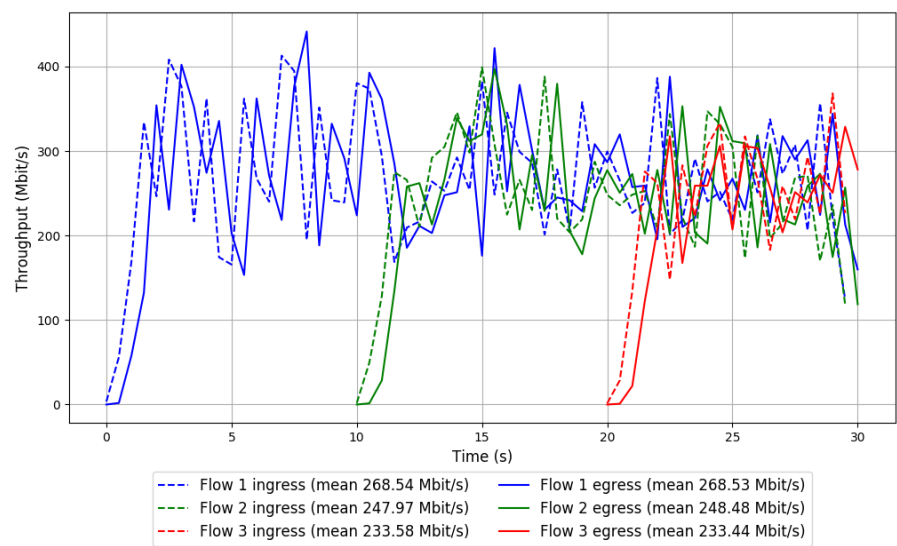
-- Flow 3:

Average throughput: 233.44 Mbit/s

95th percentile per-packet one-way delay: 82.373 ms

Loss rate: 0.07%

Run 3: Report of Indigo-96d2da3 — Data Link



Run 4: Statistics of Indigo-96d2da3

Start at: 2018-09-26 06:14:01

End at: 2018-09-26 06:14:31

Local clock offset: -0.211 ms

Remote clock offset: 0.247 ms

Below is generated by plot.py at 2018-09-26 09:07:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 489.87 Mbit/s

95th percentile per-packet one-way delay: 71.574 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 259.16 Mbit/s

95th percentile per-packet one-way delay: 74.546 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 238.98 Mbit/s

95th percentile per-packet one-way delay: 69.681 ms

Loss rate: 0.00%

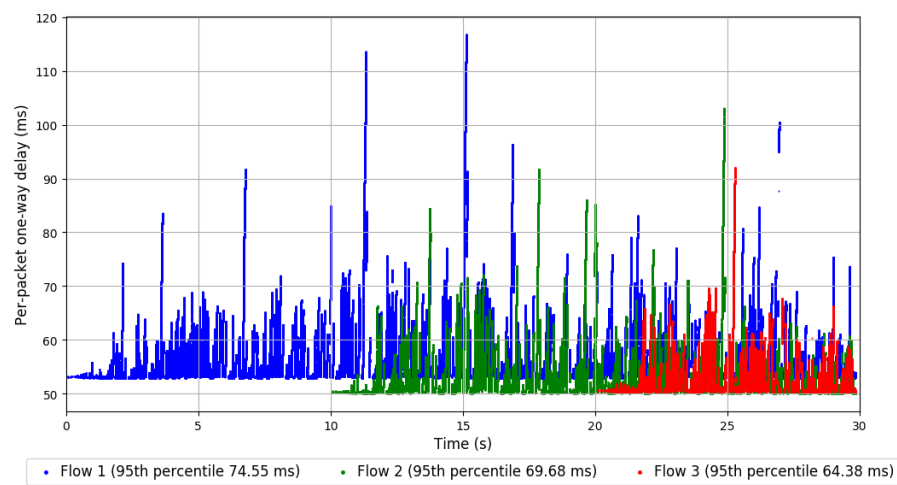
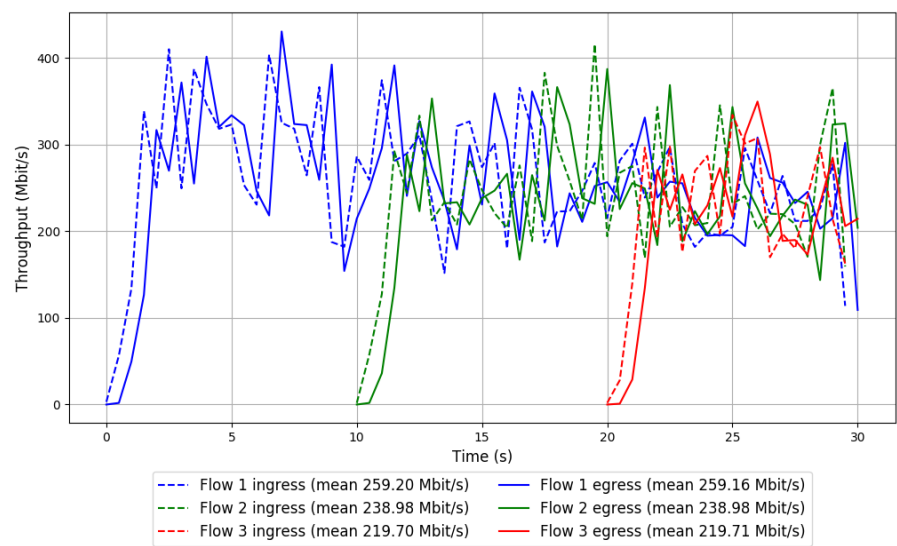
-- Flow 3:

Average throughput: 219.71 Mbit/s

95th percentile per-packet one-way delay: 64.383 ms

Loss rate: 0.00%

Run 4: Report of Indigo-96d2da3 — Data Link

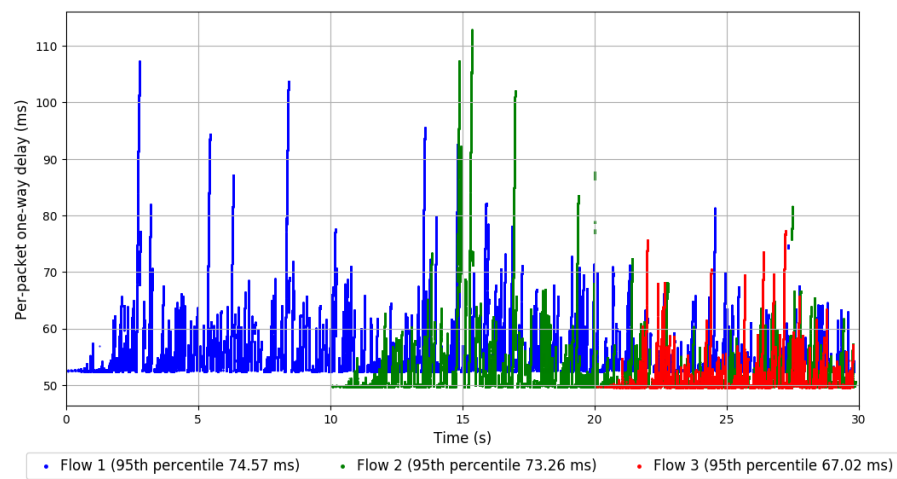
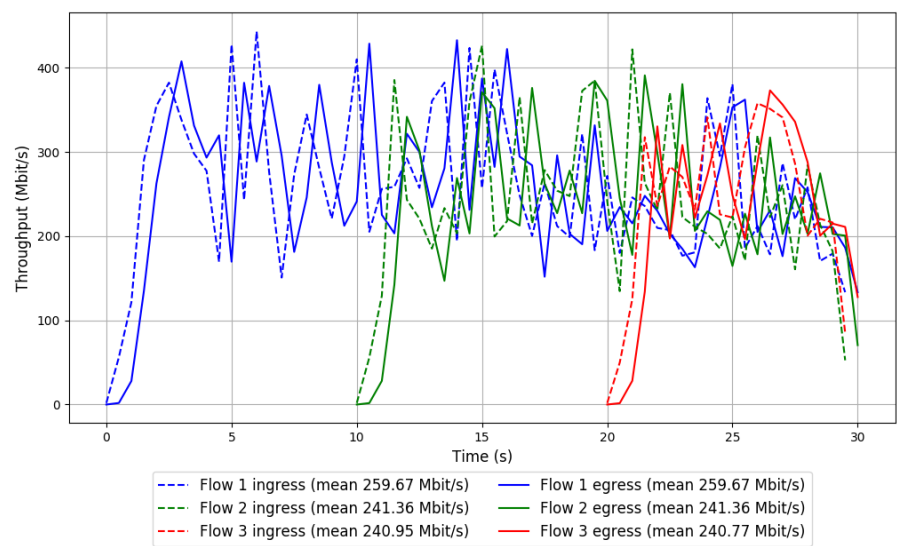


Run 5: Statistics of Indigo-96d2da3

Start at: 2018-09-26 06:47:10
End at: 2018-09-26 06:47:40
Local clock offset: -0.206 ms
Remote clock offset: -0.001 ms

Below is generated by plot.py at 2018-09-26 09:07:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 497.90 Mbit/s
95th percentile per-packet one-way delay: 72.366 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 259.67 Mbit/s
95th percentile per-packet one-way delay: 74.572 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 241.36 Mbit/s
95th percentile per-packet one-way delay: 73.262 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 240.77 Mbit/s
95th percentile per-packet one-way delay: 67.023 ms
Loss rate: 0.00%

Run 5: Report of Indigo-96d2da3 — Data Link

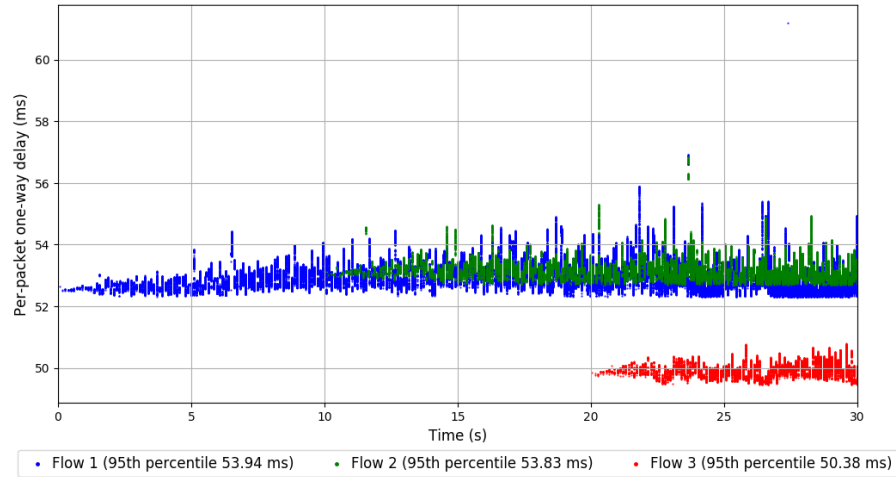
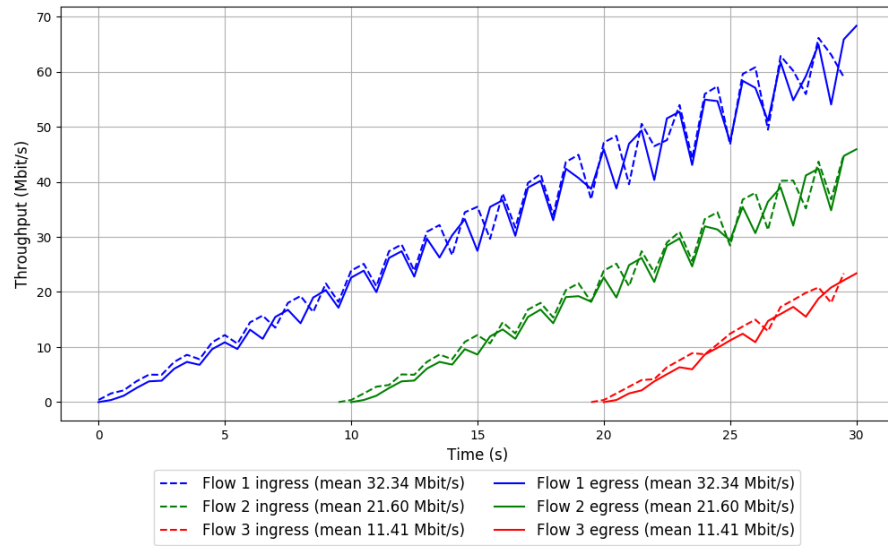


```
Run 1: Statistics of LEDBAT

Start at: 2018-09-26 05:06:45
End at: 2018-09-26 05:07:15
Local clock offset: -0.162 ms
Remote clock offset: -0.64 ms

# Below is generated by plot.py at 2018-09-26 09:07:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 50.52 Mbit/s
95th percentile per-packet one-way delay: 53.877 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.34 Mbit/s
95th percentile per-packet one-way delay: 53.944 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 21.60 Mbit/s
95th percentile per-packet one-way delay: 53.833 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.41 Mbit/s
95th percentile per-packet one-way delay: 50.375 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-09-26 05:39:35

End at: 2018-09-26 05:40:05

Local clock offset: -0.303 ms

Remote clock offset: 0.169 ms

Below is generated by plot.py at 2018-09-26 09:07:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.04 Mbit/s

95th percentile per-packet one-way delay: 54.210 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 34.17 Mbit/s

95th percentile per-packet one-way delay: 52.535 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 22.80 Mbit/s

95th percentile per-packet one-way delay: 54.723 ms

Loss rate: 0.00%

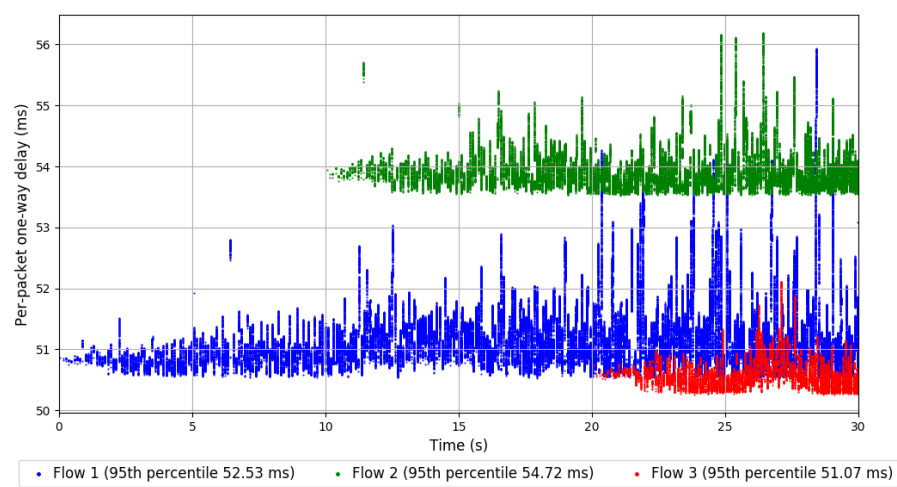
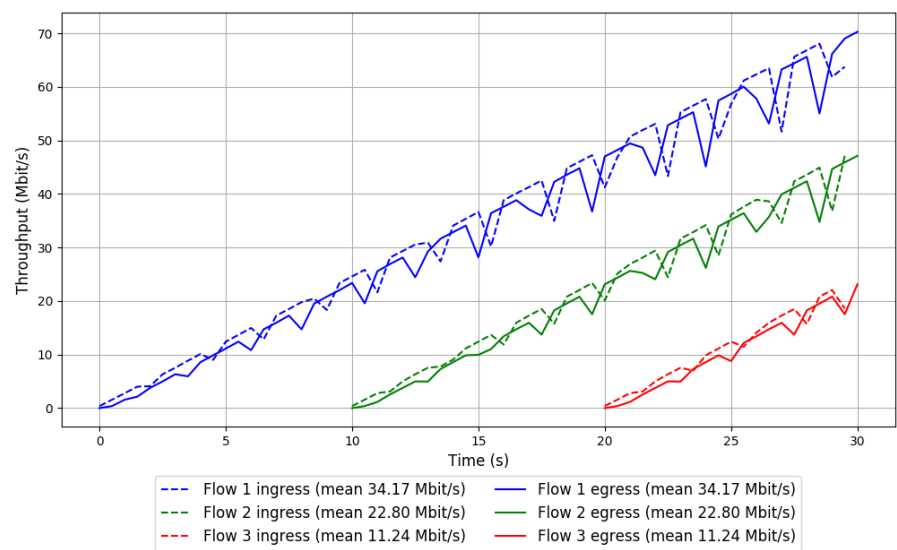
-- Flow 3:

Average throughput: 11.24 Mbit/s

95th percentile per-packet one-way delay: 51.067 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-09-26 06:12:45

End at: 2018-09-26 06:13:15

Local clock offset: -0.238 ms

Remote clock offset: 0.245 ms

Below is generated by plot.py at 2018-09-26 09:07:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.72 Mbit/s

95th percentile per-packet one-way delay: 53.678 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 34.18 Mbit/s

95th percentile per-packet one-way delay: 51.573 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 21.83 Mbit/s

95th percentile per-packet one-way delay: 54.214 ms

Loss rate: 0.00%

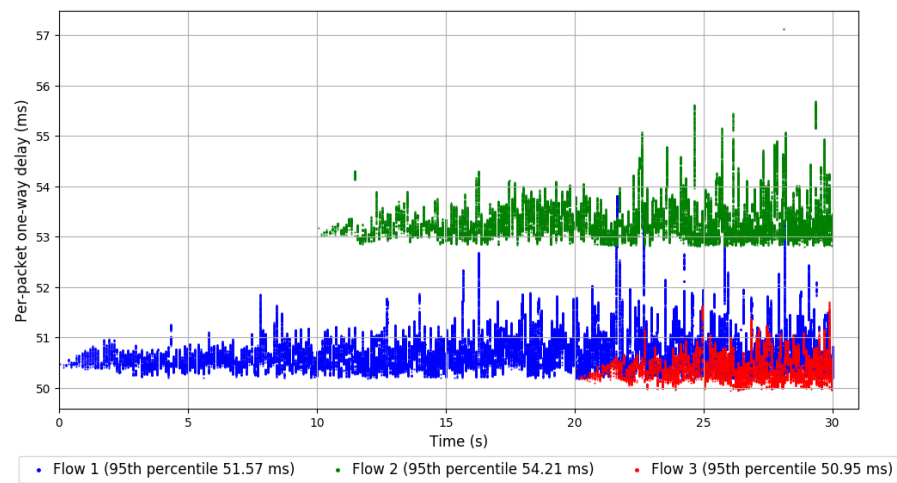
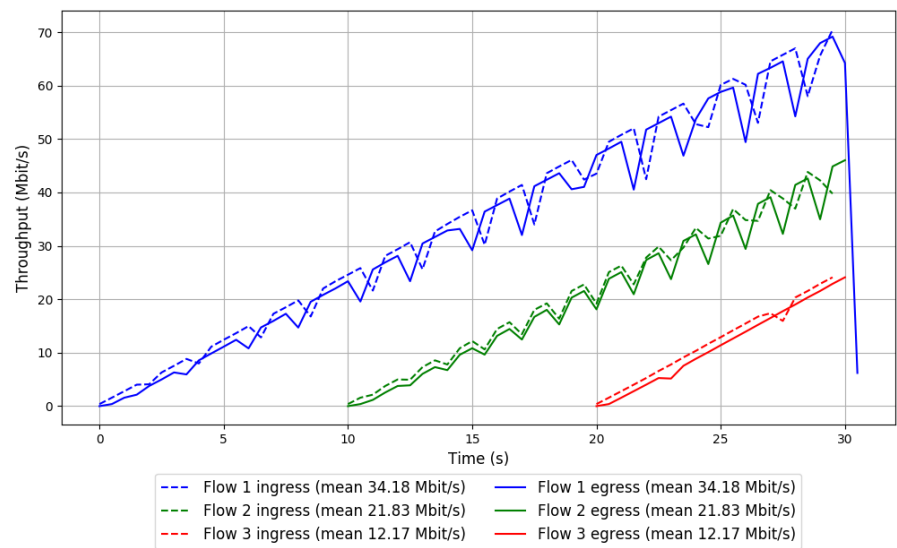
-- Flow 3:

Average throughput: 12.17 Mbit/s

95th percentile per-packet one-way delay: 50.953 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-09-26 06:45:54

End at: 2018-09-26 06:46:24

Local clock offset: -0.232 ms

Remote clock offset: 0.488 ms

Below is generated by plot.py at 2018-09-26 09:07:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.76 Mbit/s

95th percentile per-packet one-way delay: 54.366 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 35.91 Mbit/s

95th percentile per-packet one-way delay: 52.119 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 22.79 Mbit/s

95th percentile per-packet one-way delay: 54.887 ms

Loss rate: 0.00%

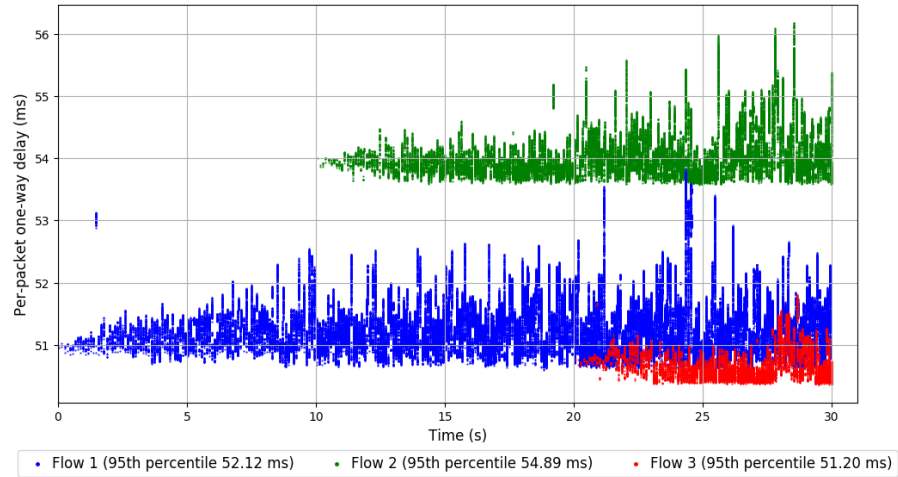
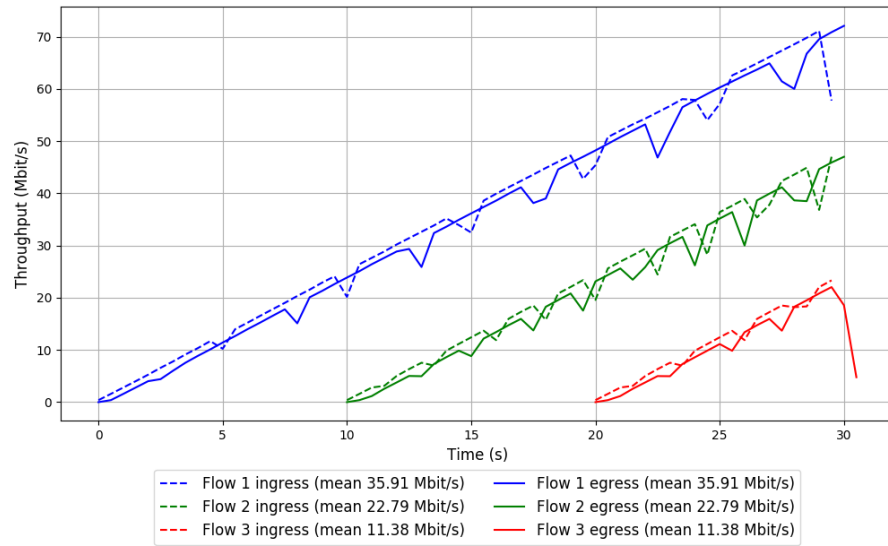
-- Flow 3:

Average throughput: 11.38 Mbit/s

95th percentile per-packet one-way delay: 51.195 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-09-26 07:18:45

End at: 2018-09-26 07:19:15

Local clock offset: -0.418 ms

Remote clock offset: 0.686 ms

Below is generated by plot.py at 2018-09-26 09:07:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.12 Mbit/s

95th percentile per-packet one-way delay: 53.253 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 34.04 Mbit/s

95th percentile per-packet one-way delay: 51.763 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 24.51 Mbit/s

95th percentile per-packet one-way delay: 51.412 ms

Loss rate: 0.00%

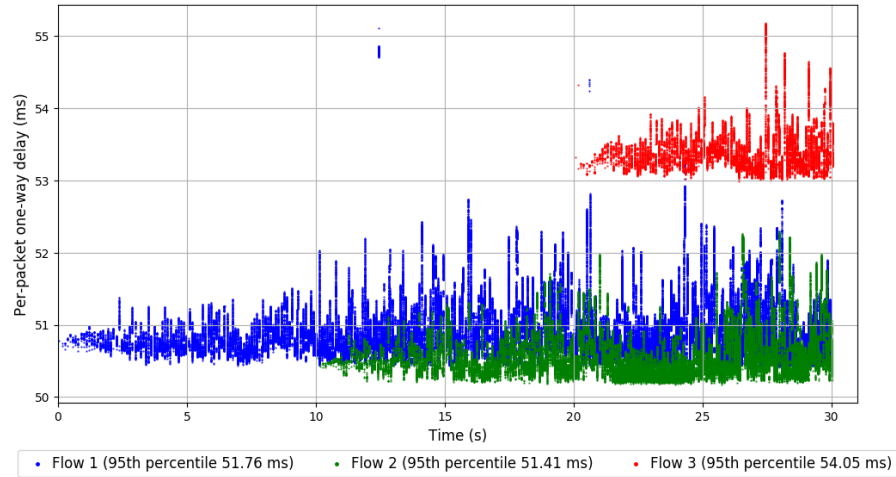
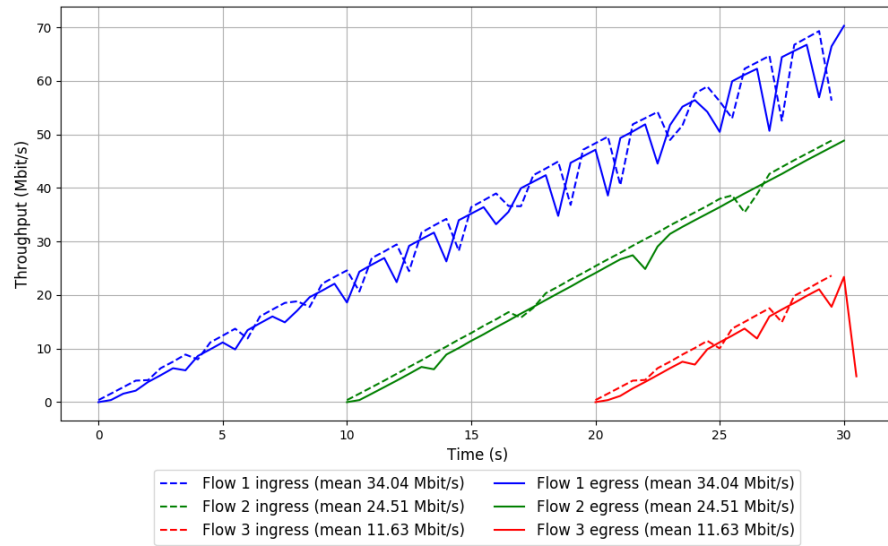
-- Flow 3:

Average throughput: 11.63 Mbit/s

95th percentile per-packet one-way delay: 54.055 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Indigo-Muses

Start at: 2018-09-26 04:36:42

End at: 2018-09-26 04:37:12

Local clock offset: -0.406 ms

Remote clock offset: 1.016 ms

Below is generated by plot.py at 2018-09-26 09:18:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 1025.35 Mbit/s

95th percentile per-packet one-way delay: 85.801 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 553.96 Mbit/s

95th percentile per-packet one-way delay: 85.301 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 511.97 Mbit/s

95th percentile per-packet one-way delay: 83.594 ms

Loss rate: 0.00%

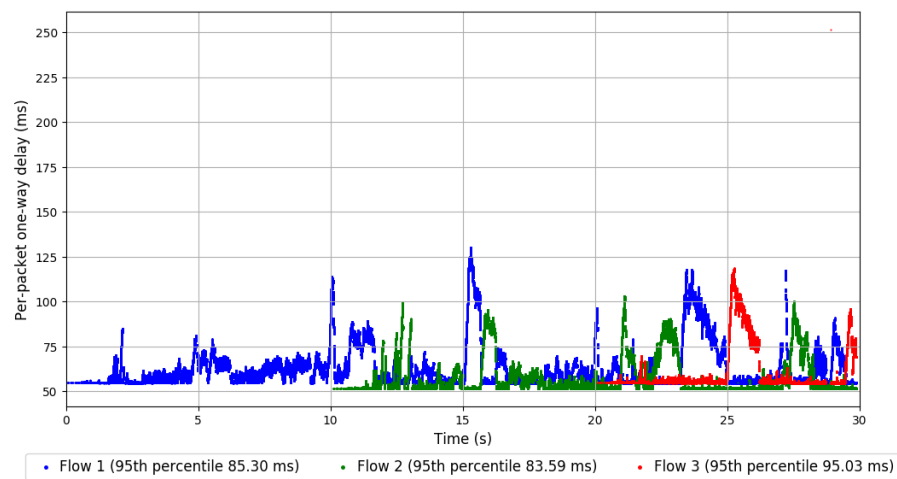
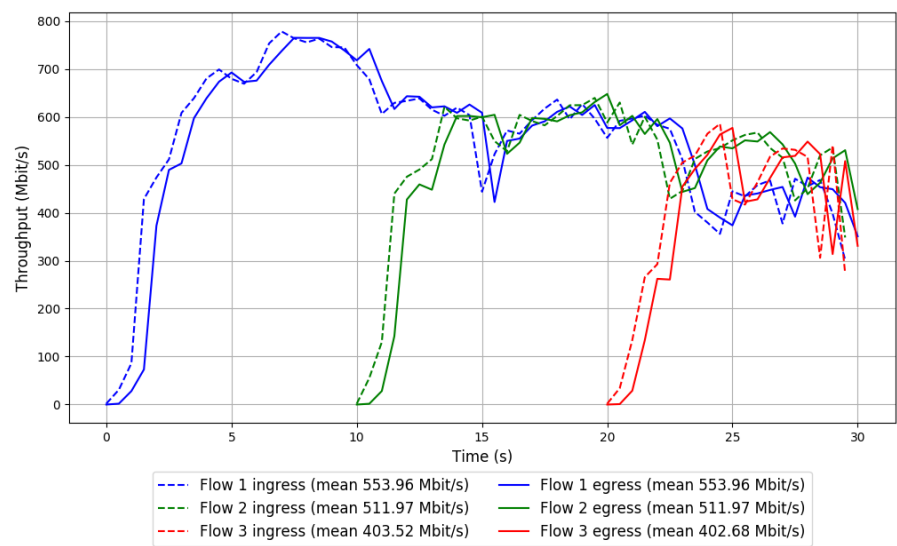
-- Flow 3:

Average throughput: 402.68 Mbit/s

95th percentile per-packet one-way delay: 95.028 ms

Loss rate: 0.24%

Run 1: Report of Indigo-Muses — Data Link



Run 2: Statistics of Indigo-Muses

Start at: 2018-09-26 05:09:37

End at: 2018-09-26 05:10:07

Local clock offset: -0.154 ms

Remote clock offset: 0.087 ms

Below is generated by plot.py at 2018-09-26 09:20:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 1053.58 Mbit/s

95th percentile per-packet one-way delay: 68.972 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 581.76 Mbit/s

95th percentile per-packet one-way delay: 68.681 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 492.13 Mbit/s

95th percentile per-packet one-way delay: 80.386 ms

Loss rate: 0.09%

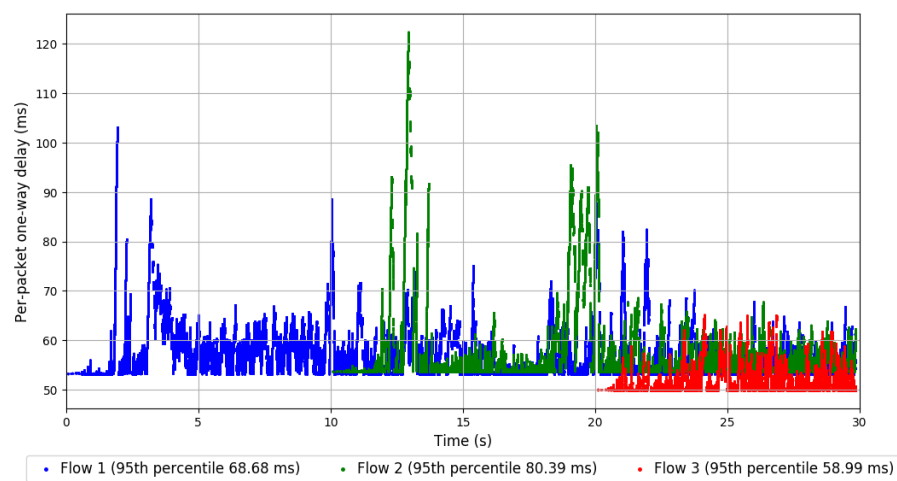
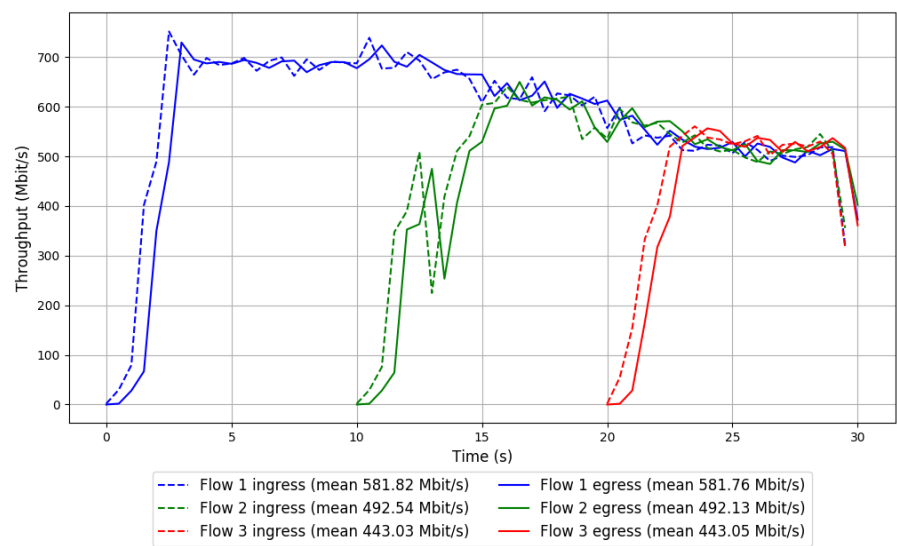
-- Flow 3:

Average throughput: 443.05 Mbit/s

95th percentile per-packet one-way delay: 58.993 ms

Loss rate: 0.01%

Run 2: Report of Indigo-Muses — Data Link



Run 3: Statistics of Indigo-Muses

Start at: 2018-09-26 05:42:27

End at: 2018-09-26 05:42:57

Local clock offset: -0.232 ms

Remote clock offset: 0.451 ms

Below is generated by plot.py at 2018-09-26 09:20:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 1062.83 Mbit/s

95th percentile per-packet one-way delay: 66.038 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 582.79 Mbit/s

95th percentile per-packet one-way delay: 70.301 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 503.29 Mbit/s

95th percentile per-packet one-way delay: 63.250 ms

Loss rate: 0.00%

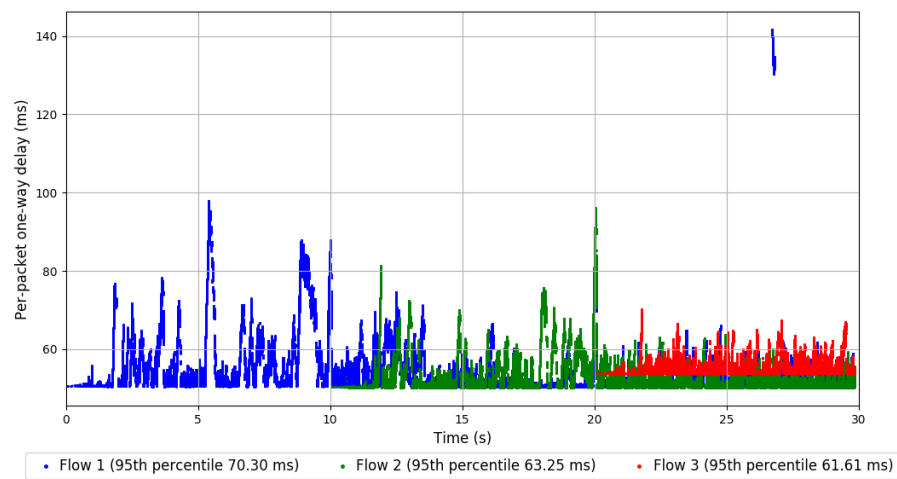
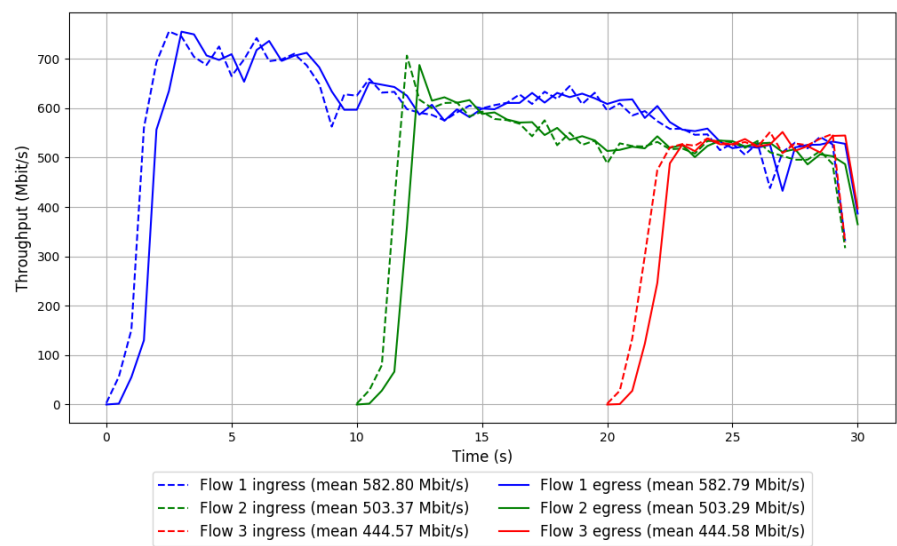
-- Flow 3:

Average throughput: 444.58 Mbit/s

95th percentile per-packet one-way delay: 61.609 ms

Loss rate: 0.00%

Run 3: Report of Indigo-Muses — Data Link



Run 4: Statistics of Indigo-Muses

Start at: 2018-09-26 06:15:37

End at: 2018-09-26 06:16:07

Local clock offset: -0.196 ms

Remote clock offset: -0.88 ms

Below is generated by plot.py at 2018-09-26 09:20:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 1033.47 Mbit/s

95th percentile per-packet one-way delay: 68.409 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 556.52 Mbit/s

95th percentile per-packet one-way delay: 70.962 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 500.32 Mbit/s

95th percentile per-packet one-way delay: 62.563 ms

Loss rate: 0.00%

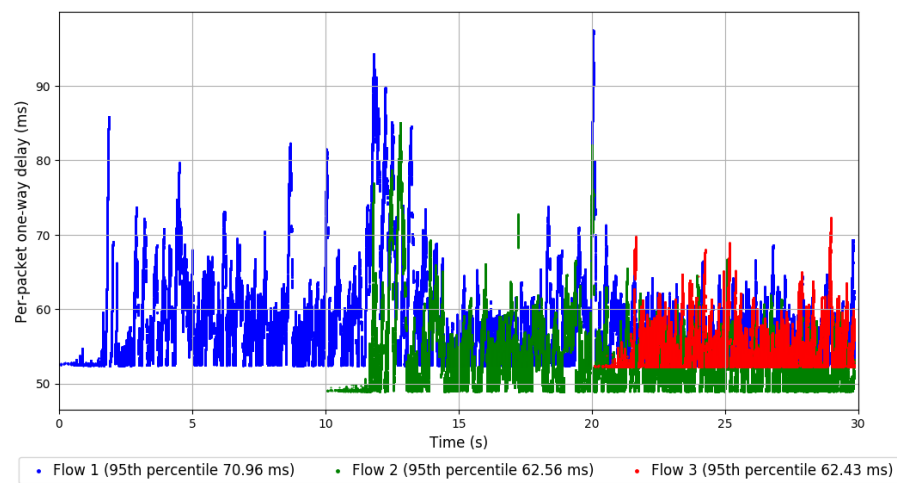
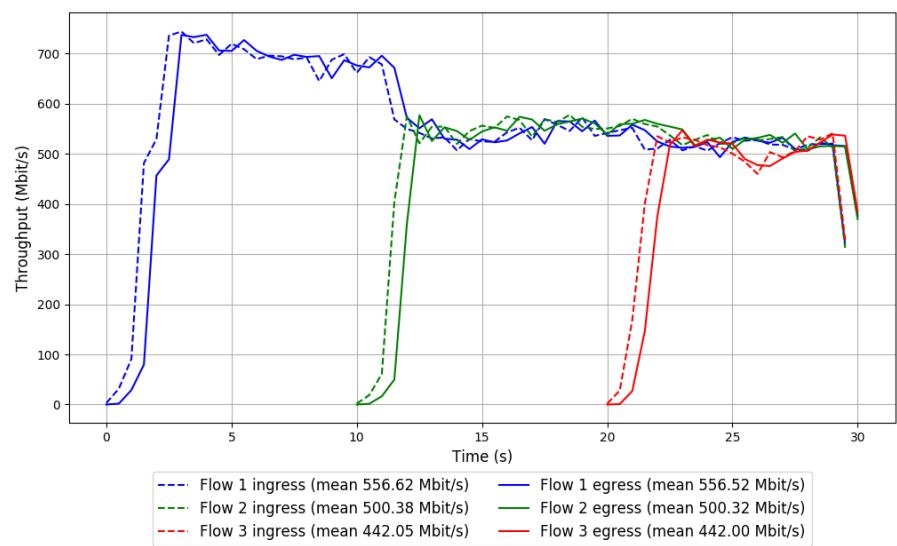
-- Flow 3:

Average throughput: 442.00 Mbit/s

95th percentile per-packet one-way delay: 62.433 ms

Loss rate: 0.02%

Run 4: Report of Indigo-Muses — Data Link



Run 5: Statistics of Indigo-Muses

Start at: 2018-09-26 06:48:46

End at: 2018-09-26 06:49:16

Local clock offset: -0.166 ms

Remote clock offset: 0.28 ms

Below is generated by plot.py at 2018-09-26 09:23:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 1065.12 Mbit/s

95th percentile per-packet one-way delay: 72.032 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 584.60 Mbit/s

95th percentile per-packet one-way delay: 75.181 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 528.17 Mbit/s

95th percentile per-packet one-way delay: 59.612 ms

Loss rate: 0.00%

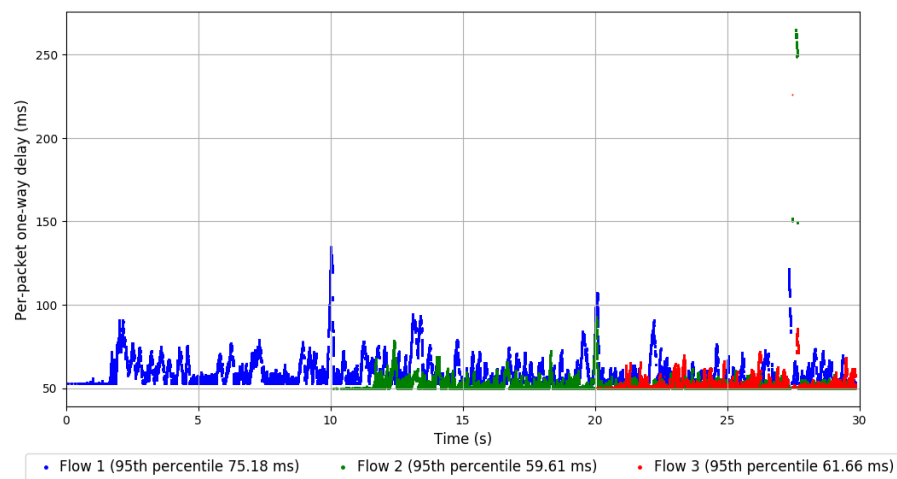
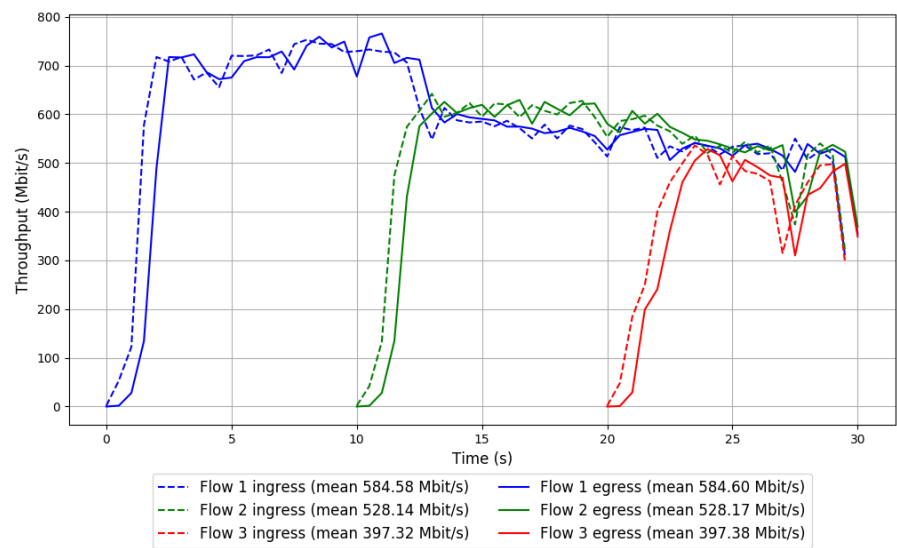
-- Flow 3:

Average throughput: 397.38 Mbit/s

95th percentile per-packet one-way delay: 61.662 ms

Loss rate: 0.00%

Run 5: Report of Indigo-Muses — Data Link

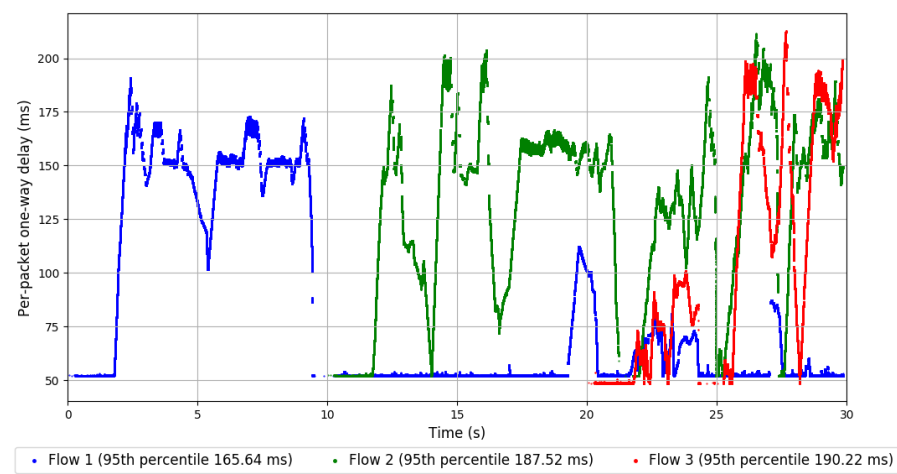
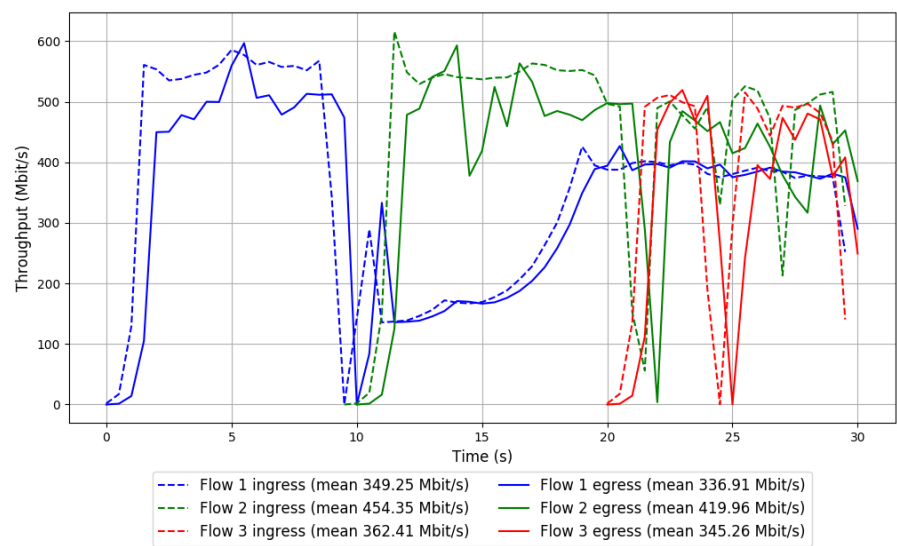


Run 1: Statistics of PCC-Allegro

Start at: 2018-09-26 04:54:12
End at: 2018-09-26 04:54:42
Local clock offset: -0.27 ms
Remote clock offset: -1.342 ms

Below is generated by plot.py at 2018-09-26 09:30:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 729.58 Mbit/s
95th percentile per-packet one-way delay: 181.348 ms
Loss rate: 5.39%
-- Flow 1:
Average throughput: 336.91 Mbit/s
95th percentile per-packet one-way delay: 165.641 ms
Loss rate: 3.54%
-- Flow 2:
Average throughput: 419.96 Mbit/s
95th percentile per-packet one-way delay: 187.519 ms
Loss rate: 7.58%
-- Flow 3:
Average throughput: 345.26 Mbit/s
95th percentile per-packet one-way delay: 190.220 ms
Loss rate: 5.26%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-09-26 05:27:05

End at: 2018-09-26 05:27:35

Local clock offset: -0.179 ms

Remote clock offset: 0.075 ms

Below is generated by plot.py at 2018-09-26 09:35:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 849.21 Mbit/s

95th percentile per-packet one-way delay: 178.340 ms

Loss rate: 4.46%

-- Flow 1:

Average throughput: 480.42 Mbit/s

95th percentile per-packet one-way delay: 170.237 ms

Loss rate: 4.10%

-- Flow 2:

Average throughput: 421.04 Mbit/s

95th percentile per-packet one-way delay: 195.977 ms

Loss rate: 6.39%

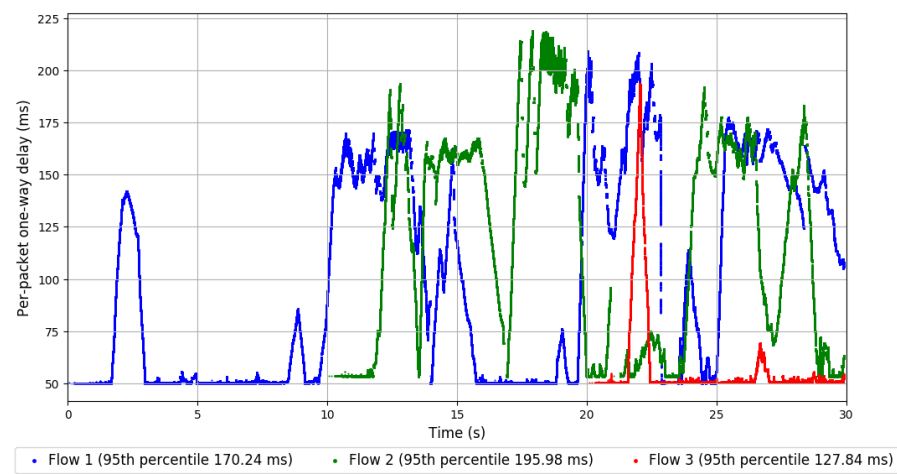
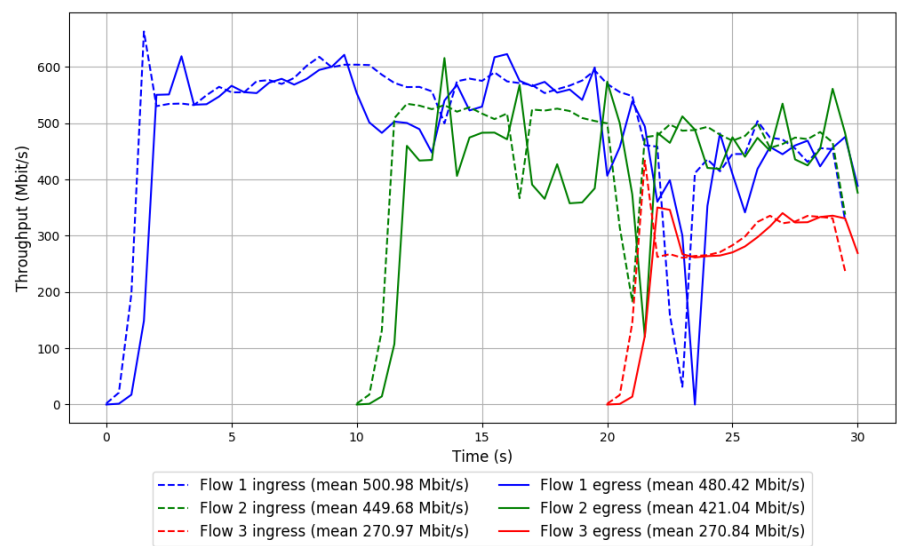
-- Flow 3:

Average throughput: 270.84 Mbit/s

95th percentile per-packet one-way delay: 127.838 ms

Loss rate: 0.03%

Run 2: Report of PCC-Allegro — Data Link

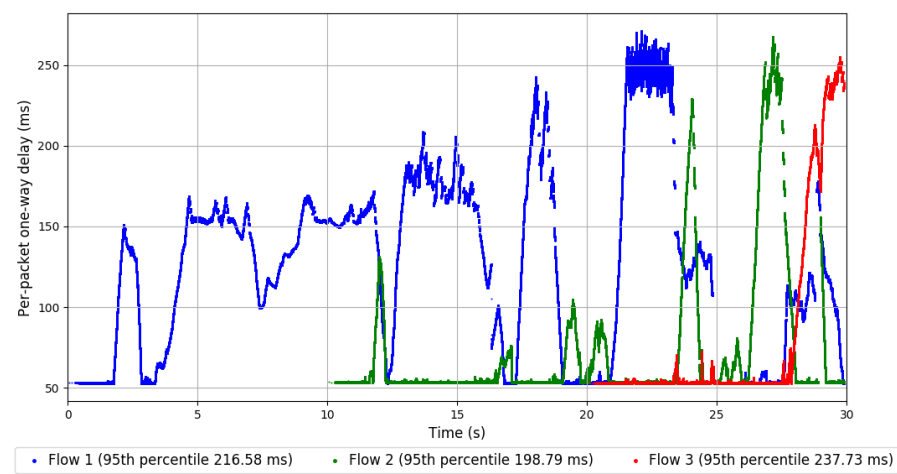
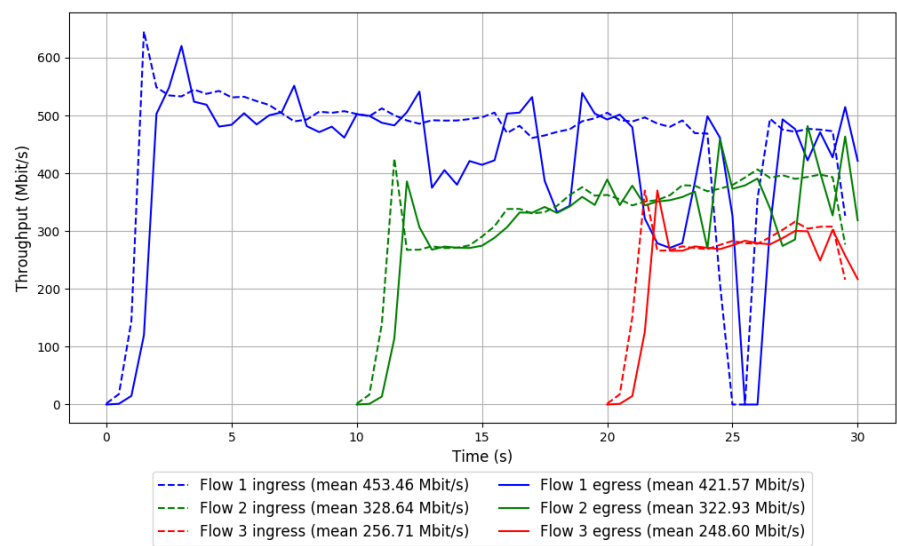


Run 3: Statistics of PCC-Allegro

Start at: 2018-09-26 05:59:52
End at: 2018-09-26 06:00:22
Local clock offset: -0.158 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-09-26 09:35:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 717.99 Mbit/s
95th percentile per-packet one-way delay: 219.219 ms
Loss rate: 5.08%
-- Flow 1:
Average throughput: 421.57 Mbit/s
95th percentile per-packet one-way delay: 216.584 ms
Loss rate: 7.03%
-- Flow 2:
Average throughput: 322.93 Mbit/s
95th percentile per-packet one-way delay: 198.790 ms
Loss rate: 1.75%
-- Flow 3:
Average throughput: 248.60 Mbit/s
95th percentile per-packet one-way delay: 237.732 ms
Loss rate: 3.16%

Run 3: Report of PCC-Allegro — Data Link

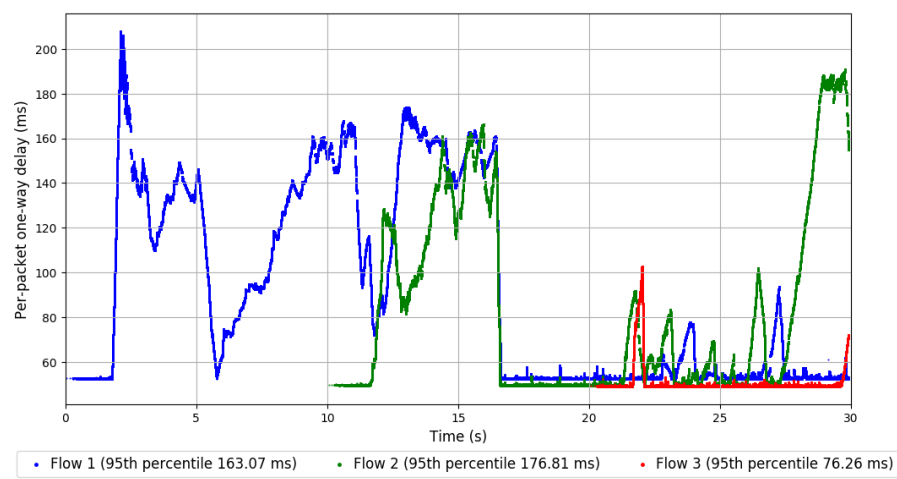
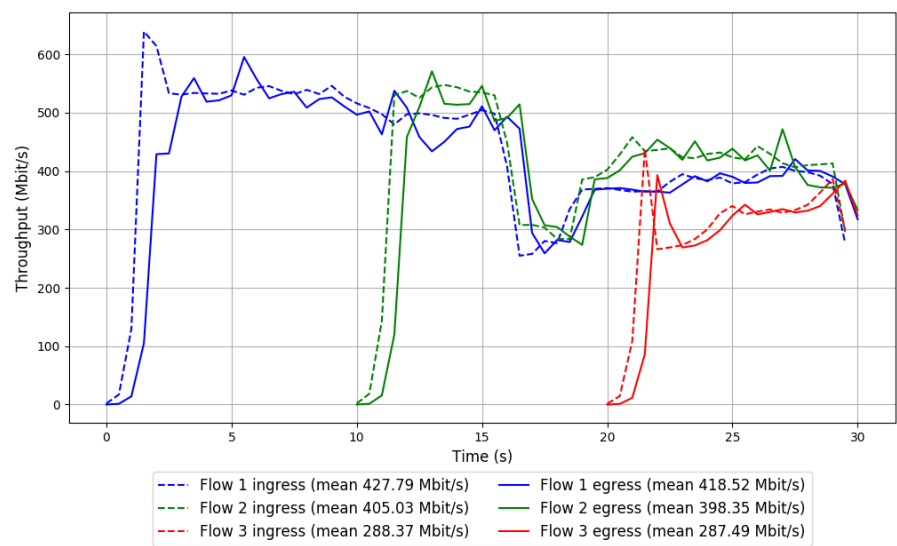


Run 4: Statistics of PCC-Allegro

Start at: 2018-09-26 06:33:06
End at: 2018-09-26 06:33:36
Local clock offset: -0.2 ms
Remote clock offset: -0.606 ms

Below is generated by plot.py at 2018-09-26 09:48:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 777.91 Mbit/s
95th percentile per-packet one-way delay: 162.637 ms
Loss rate: 1.76%
-- Flow 1:
Average throughput: 418.52 Mbit/s
95th percentile per-packet one-way delay: 163.067 ms
Loss rate: 2.17%
-- Flow 2:
Average throughput: 398.35 Mbit/s
95th percentile per-packet one-way delay: 176.813 ms
Loss rate: 1.63%
-- Flow 3:
Average throughput: 287.49 Mbit/s
95th percentile per-packet one-way delay: 76.261 ms
Loss rate: 0.27%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-09-26 07:06:17

End at: 2018-09-26 07:06:47

Local clock offset: -0.295 ms

Remote clock offset: 0.56 ms

Below is generated by plot.py at 2018-09-26 09:48:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 713.37 Mbit/s

95th percentile per-packet one-way delay: 165.891 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 408.58 Mbit/s

95th percentile per-packet one-way delay: 169.056 ms

Loss rate: 1.63%

-- Flow 2:

Average throughput: 318.86 Mbit/s

95th percentile per-packet one-way delay: 65.394 ms

Loss rate: 0.01%

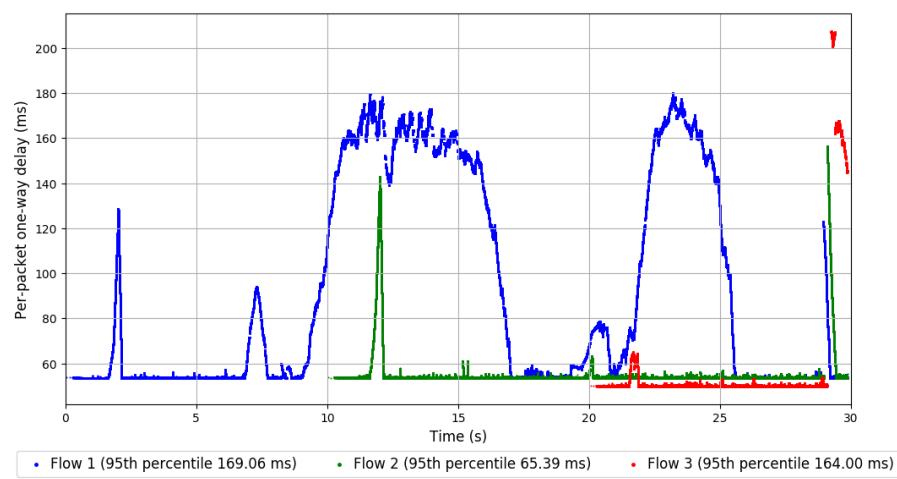
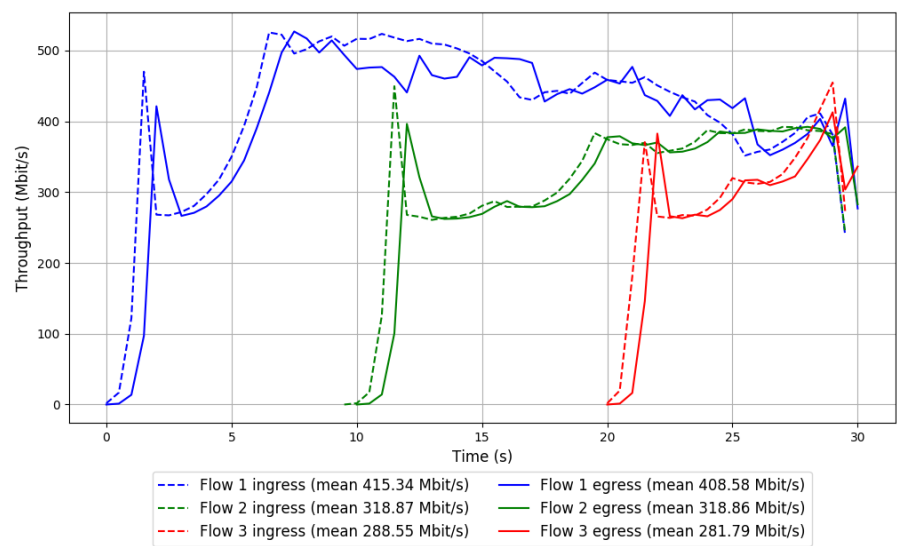
-- Flow 3:

Average throughput: 281.79 Mbit/s

95th percentile per-packet one-way delay: 164.002 ms

Loss rate: 2.33%

Run 5: Report of PCC-Allegro — Data Link

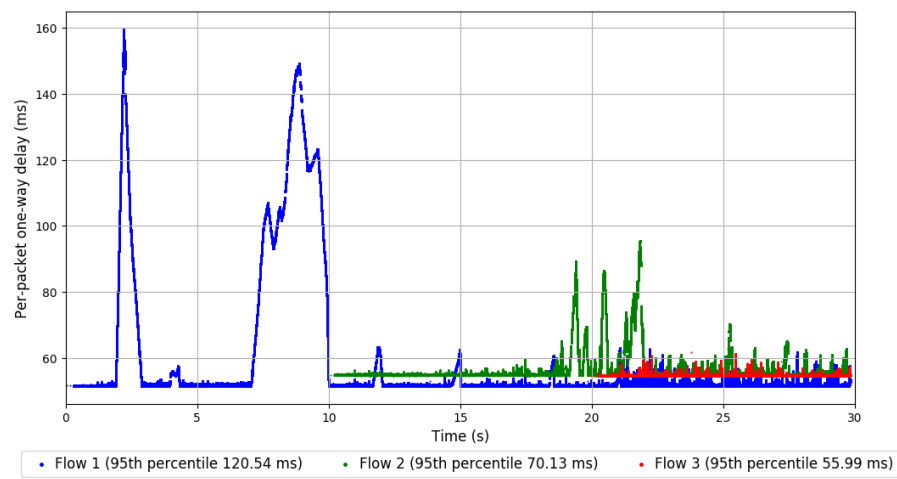
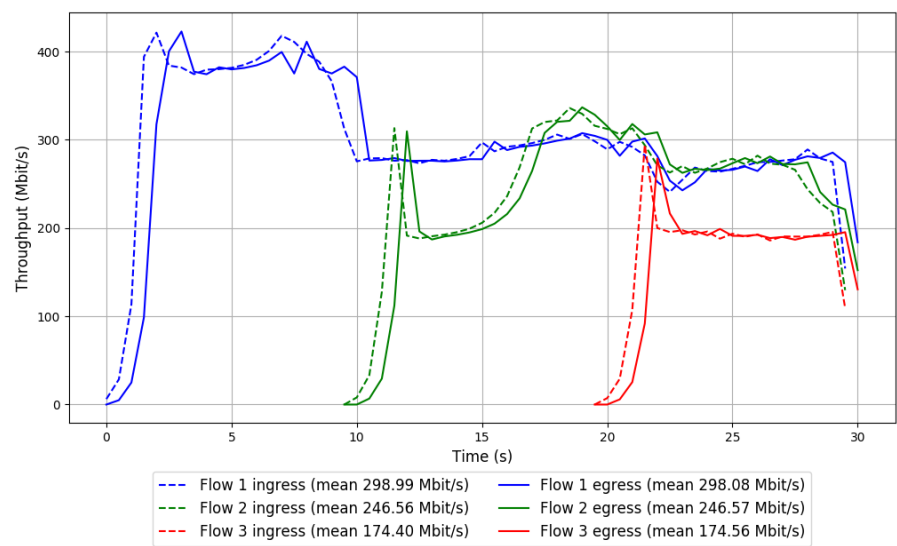


```
Run 1: Statistics of PCC-Expr

Start at: 2018-09-26 05:01:40
End at: 2018-09-26 05:02:10
Local clock offset: -0.255 ms
Remote clock offset: 1.532 ms

# Below is generated by plot.py at 2018-09-26 09:48:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 520.31 Mbit/s
95th percentile per-packet one-way delay: 104.199 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 298.08 Mbit/s
95th percentile per-packet one-way delay: 120.544 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 246.57 Mbit/s
95th percentile per-packet one-way delay: 70.126 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 174.56 Mbit/s
95th percentile per-packet one-way delay: 55.988 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Expr — Data Link

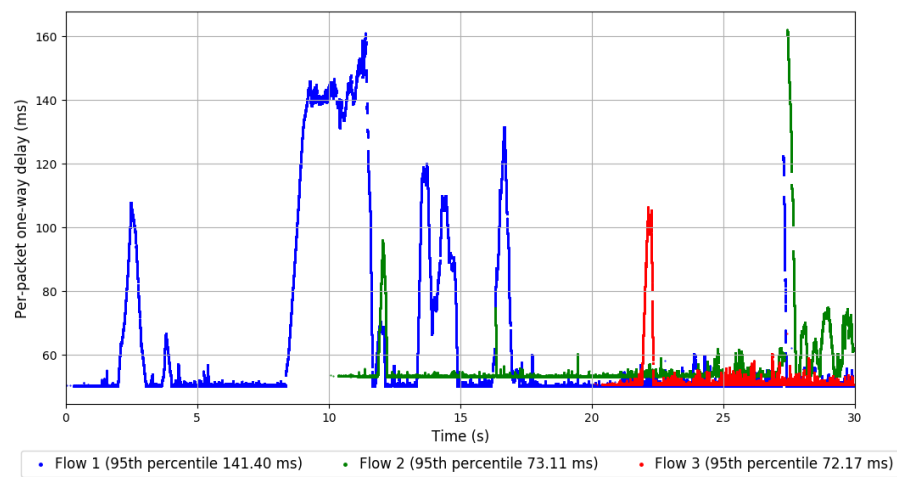
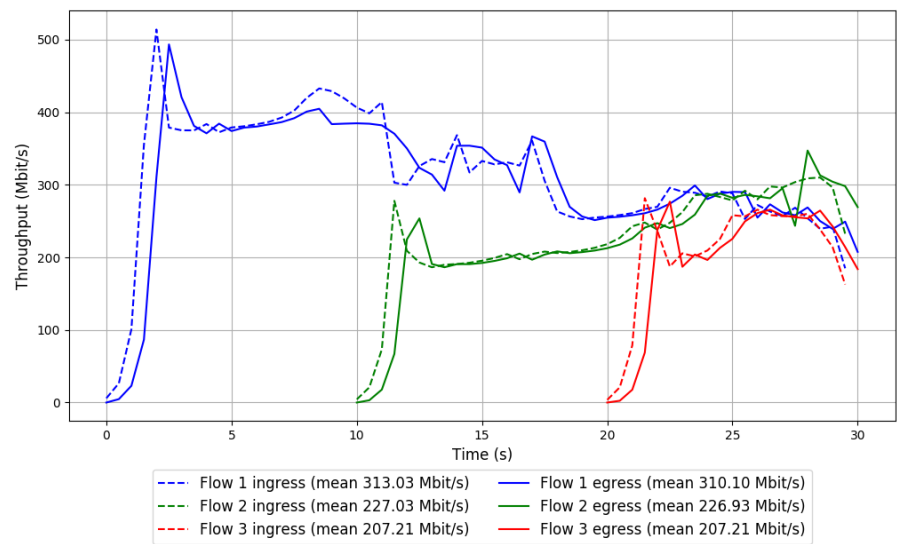


```
Run 2: Statistics of PCC-Expr

Start at: 2018-09-26 05:34:30
End at: 2018-09-26 05:35:00
Local clock offset: -0.308 ms
Remote clock offset: 0.033 ms

# Below is generated by plot.py at 2018-09-26 09:48:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 529.15 Mbit/s
95th percentile per-packet one-way delay: 138.839 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 310.10 Mbit/s
95th percentile per-packet one-way delay: 141.402 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 226.93 Mbit/s
95th percentile per-packet one-way delay: 73.112 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 207.21 Mbit/s
95th percentile per-packet one-way delay: 72.167 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-09-26 06:07:37

End at: 2018-09-26 06:08:07

Local clock offset: -0.108 ms

Remote clock offset: 1.63 ms

Below is generated by plot.py at 2018-09-26 09:48:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 539.62 Mbit/s

95th percentile per-packet one-way delay: 160.246 ms

Loss rate: 1.48%

-- Flow 1:

Average throughput: 298.31 Mbit/s

95th percentile per-packet one-way delay: 172.090 ms

Loss rate: 2.04%

-- Flow 2:

Average throughput: 271.24 Mbit/s

95th percentile per-packet one-way delay: 158.018 ms

Loss rate: 1.00%

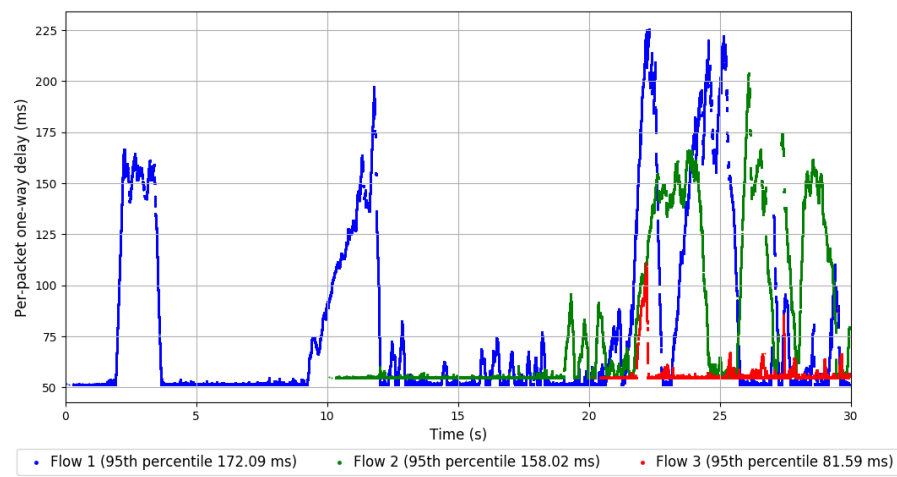
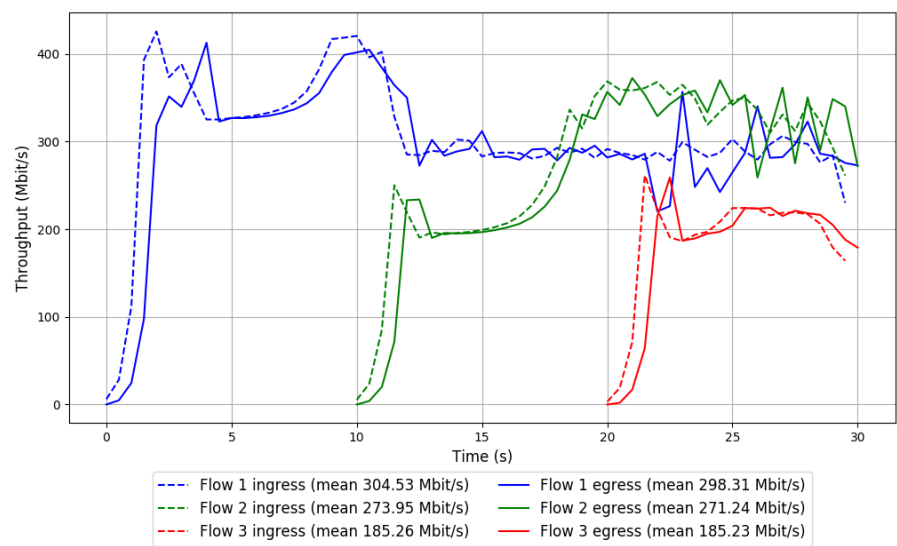
-- Flow 3:

Average throughput: 185.23 Mbit/s

95th percentile per-packet one-way delay: 81.587 ms

Loss rate: 0.06%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-09-26 06:40:53

End at: 2018-09-26 06:41:23

Local clock offset: -0.255 ms

Remote clock offset: 0.523 ms

Below is generated by plot.py at 2018-09-26 09:49:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 484.97 Mbit/s

95th percentile per-packet one-way delay: 78.291 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 277.76 Mbit/s

95th percentile per-packet one-way delay: 95.194 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 264.90 Mbit/s

95th percentile per-packet one-way delay: 59.831 ms

Loss rate: 0.00%

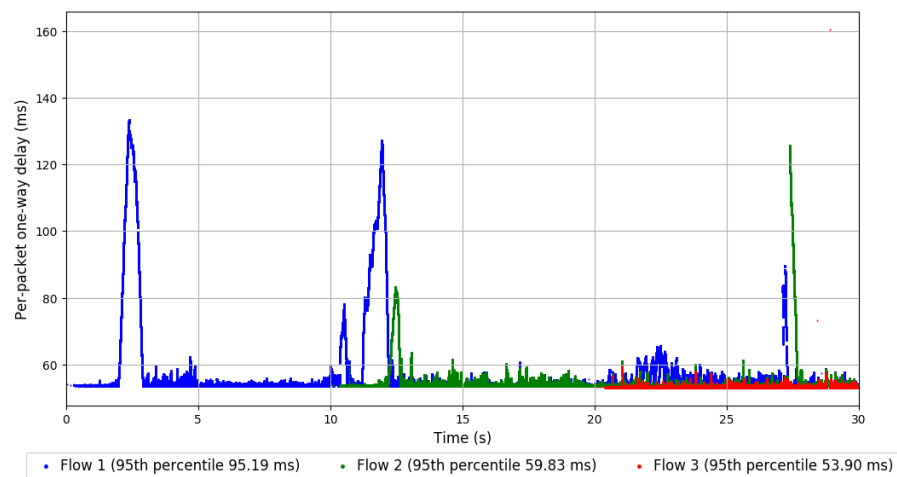
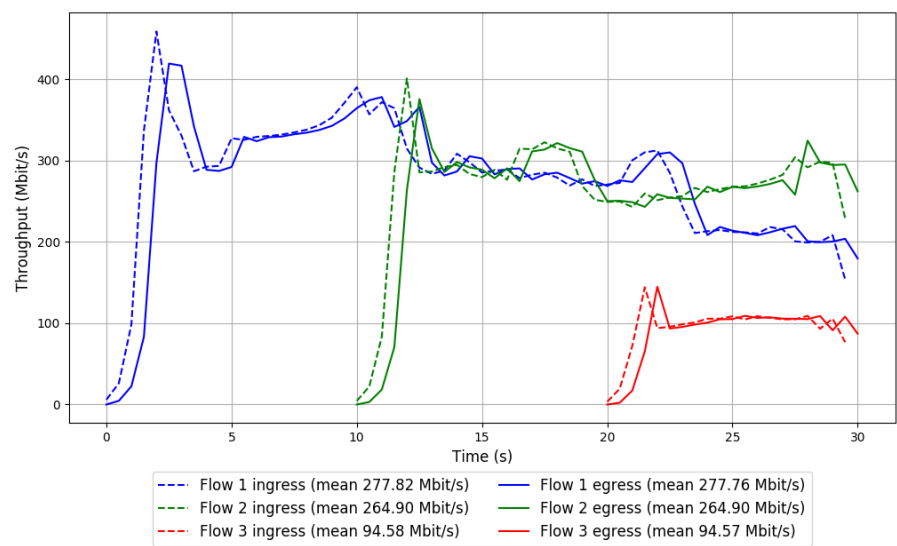
-- Flow 3:

Average throughput: 94.57 Mbit/s

95th percentile per-packet one-way delay: 53.900 ms

Loss rate: 0.00%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-09-26 07:13:40

End at: 2018-09-26 07:14:10

Local clock offset: -0.263 ms

Remote clock offset: 0.633 ms

Below is generated by plot.py at 2018-09-26 09:53:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 525.69 Mbit/s

95th percentile per-packet one-way delay: 100.311 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 281.19 Mbit/s

95th percentile per-packet one-way delay: 105.933 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 279.69 Mbit/s

95th percentile per-packet one-way delay: 88.960 ms

Loss rate: 0.10%

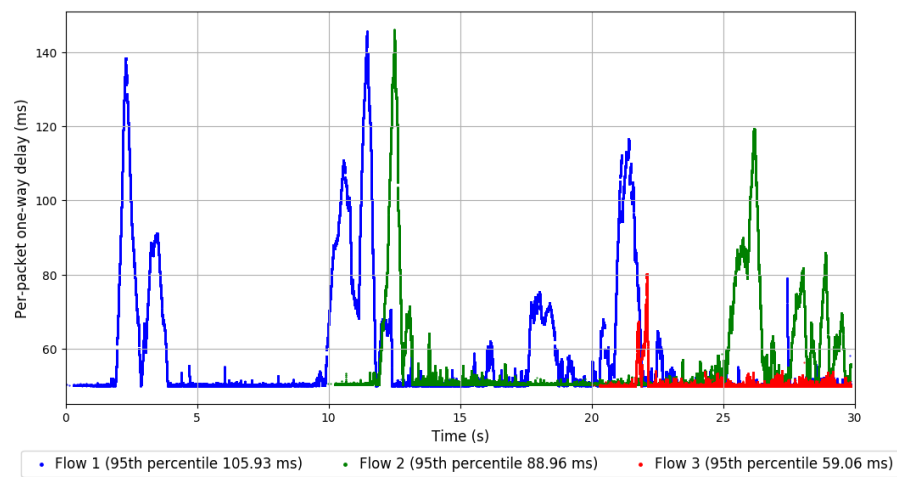
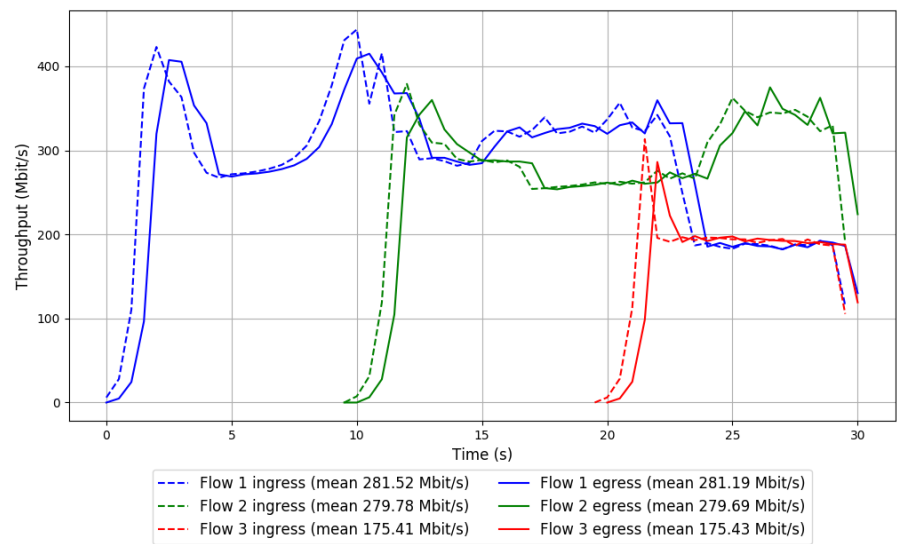
-- Flow 3:

Average throughput: 175.43 Mbit/s

95th percentile per-packet one-way delay: 59.060 ms

Loss rate: 0.12%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-09-26 04:42:53

End at: 2018-09-26 04:43:23

Local clock offset: -0.228 ms

Remote clock offset: 0.056 ms

Below is generated by plot.py at 2018-09-26 09:53:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 101.10 Mbit/s

95th percentile per-packet one-way delay: 53.134 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 51.77 Mbit/s

95th percentile per-packet one-way delay: 50.914 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 44.42 Mbit/s

95th percentile per-packet one-way delay: 50.367 ms

Loss rate: 0.00%

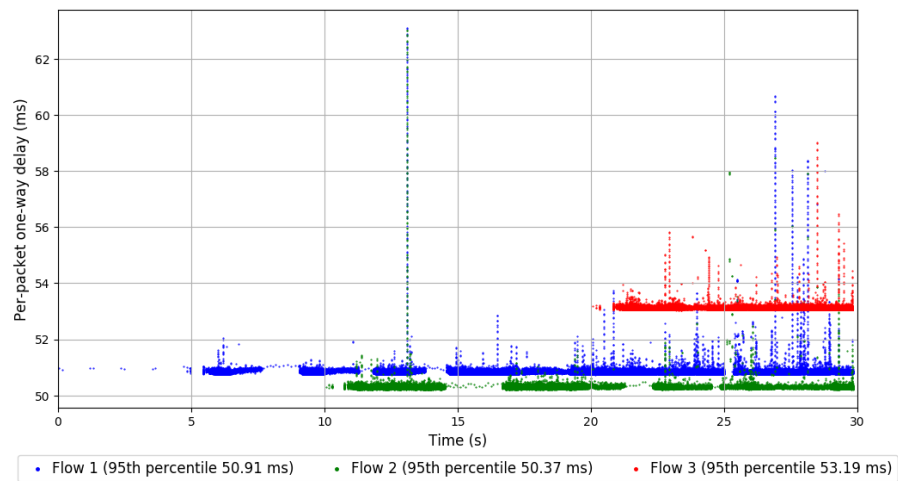
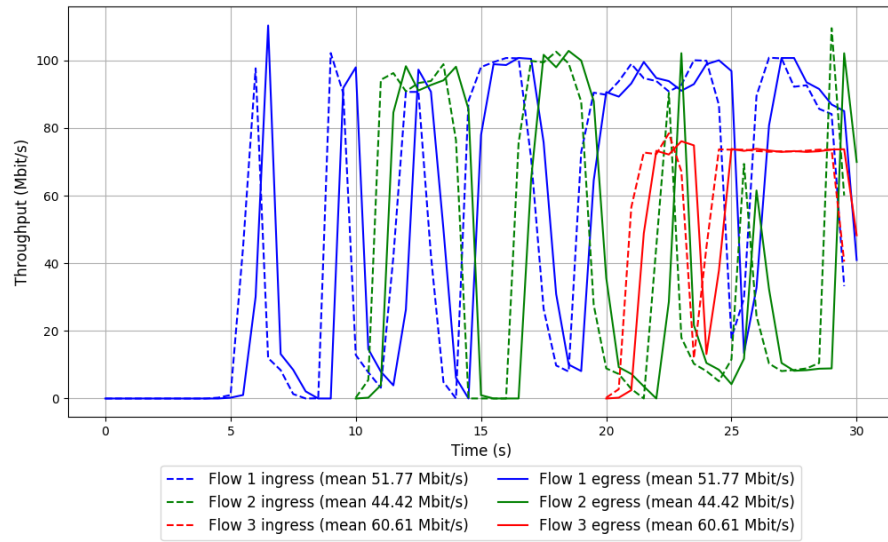
-- Flow 3:

Average throughput: 60.61 Mbit/s

95th percentile per-packet one-way delay: 53.186 ms

Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-09-26 05:15:43

End at: 2018-09-26 05:16:13

Local clock offset: -0.249 ms

Remote clock offset: 0.847 ms

Below is generated by plot.py at 2018-09-26 09:53:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.78 Mbit/s

95th percentile per-packet one-way delay: 54.357 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 51.34 Mbit/s

95th percentile per-packet one-way delay: 54.385 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 47.05 Mbit/s

95th percentile per-packet one-way delay: 51.033 ms

Loss rate: 0.00%

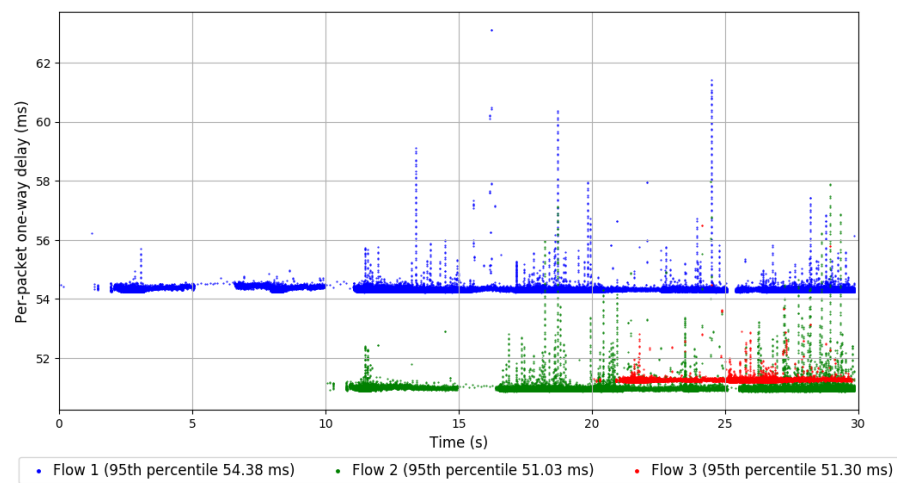
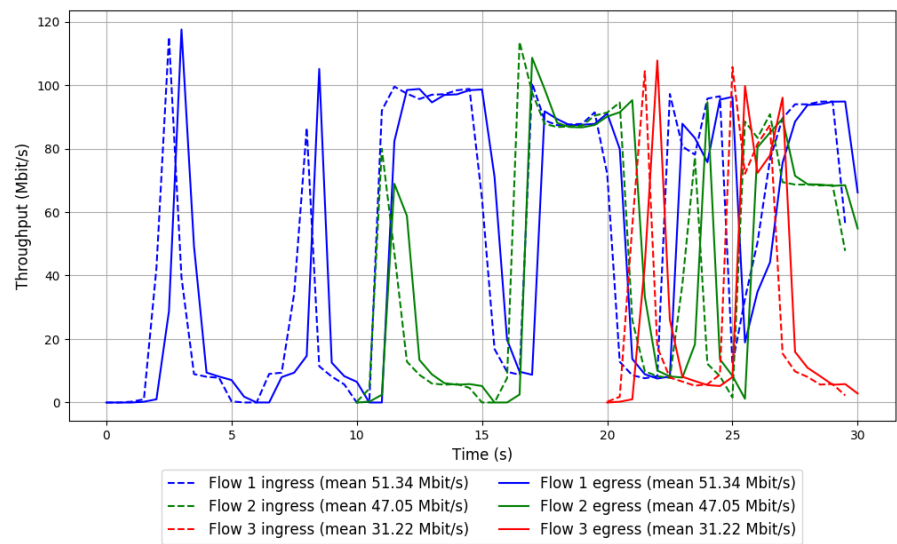
-- Flow 3:

Average throughput: 31.22 Mbit/s

95th percentile per-packet one-way delay: 51.301 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link

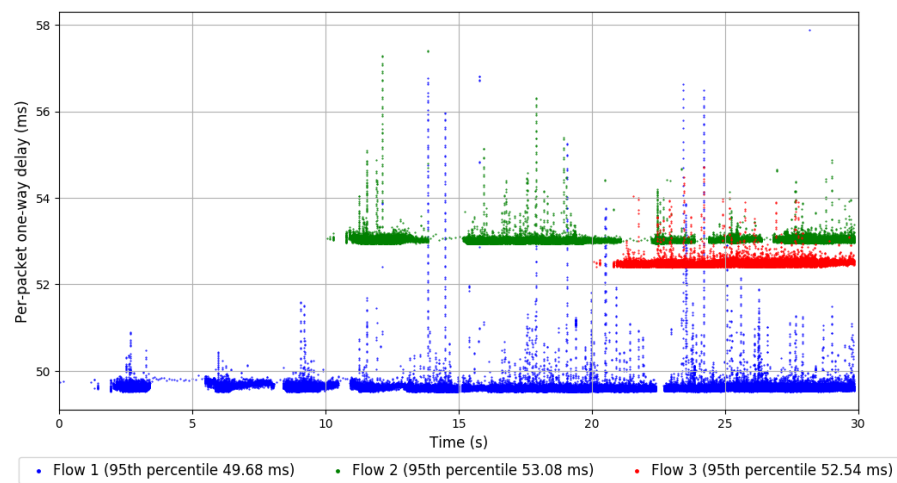
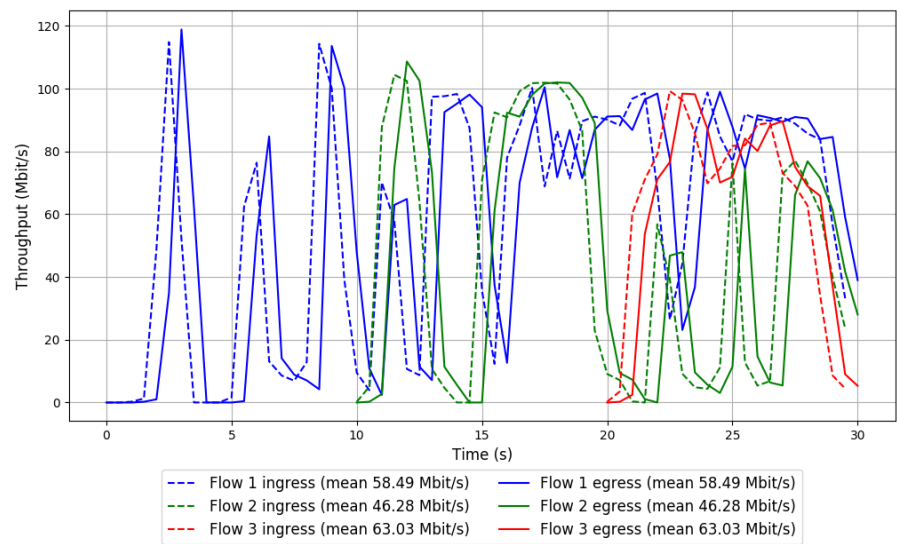


Run 3: Statistics of QUIC Cubic

Start at: 2018-09-26 05:48:38
End at: 2018-09-26 05:49:08
Local clock offset: -0.196 ms
Remote clock offset: -0.265 ms

Below is generated by plot.py at 2018-09-26 09:53:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 109.91 Mbit/s
95th percentile per-packet one-way delay: 53.037 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.49 Mbit/s
95th percentile per-packet one-way delay: 49.682 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.28 Mbit/s
95th percentile per-packet one-way delay: 53.083 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 63.03 Mbit/s
95th percentile per-packet one-way delay: 52.537 ms
Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-09-26 06:21:51

End at: 2018-09-26 06:22:21

Local clock offset: -0.03 ms

Remote clock offset: 0.408 ms

Below is generated by plot.py at 2018-09-26 09:53:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.73 Mbit/s

95th percentile per-packet one-way delay: 50.351 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 51.50 Mbit/s

95th percentile per-packet one-way delay: 50.373 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 31.43 Mbit/s

95th percentile per-packet one-way delay: 50.165 ms

Loss rate: 0.00%

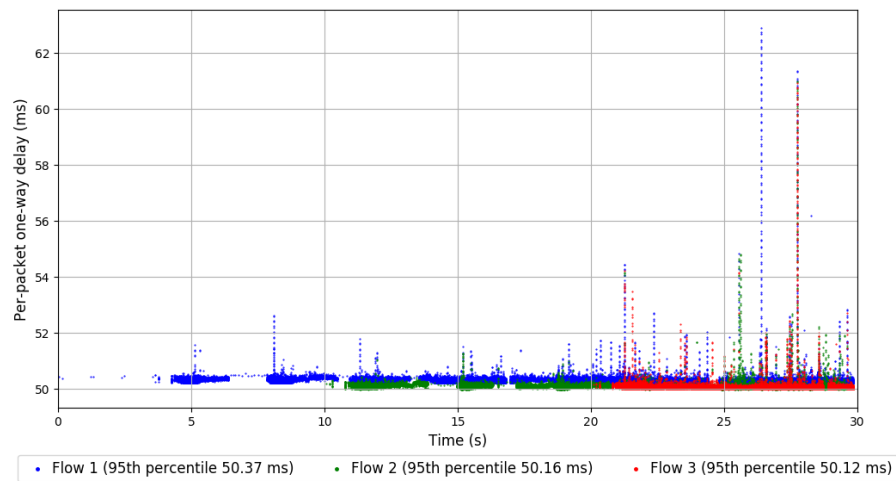
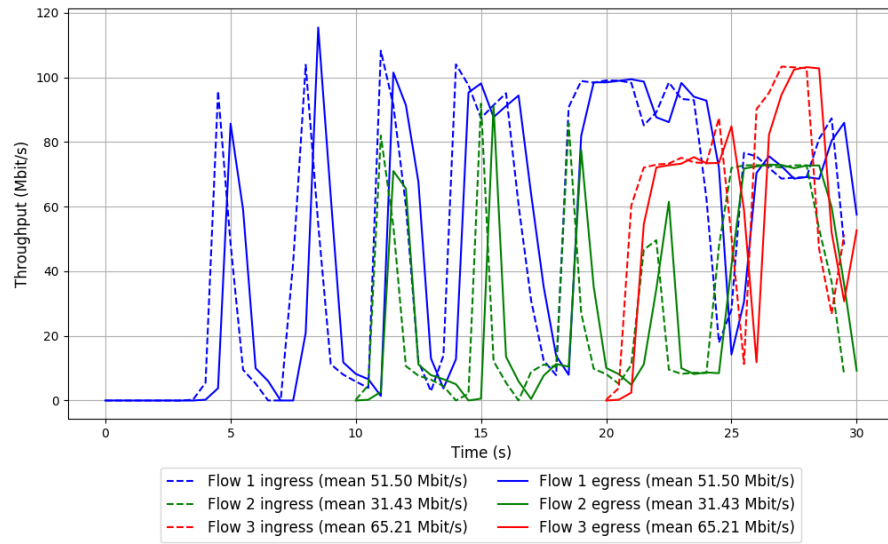
-- Flow 3:

Average throughput: 65.21 Mbit/s

95th percentile per-packet one-way delay: 50.120 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-09-26 06:54:58

End at: 2018-09-26 06:55:28

Local clock offset: -0.326 ms

Remote clock offset: 0.714 ms

Below is generated by plot.py at 2018-09-26 09:53:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.52 Mbit/s

95th percentile per-packet one-way delay: 53.749 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 58.83 Mbit/s

95th percentile per-packet one-way delay: 50.979 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.65 Mbit/s

95th percentile per-packet one-way delay: 53.339 ms

Loss rate: 0.01%

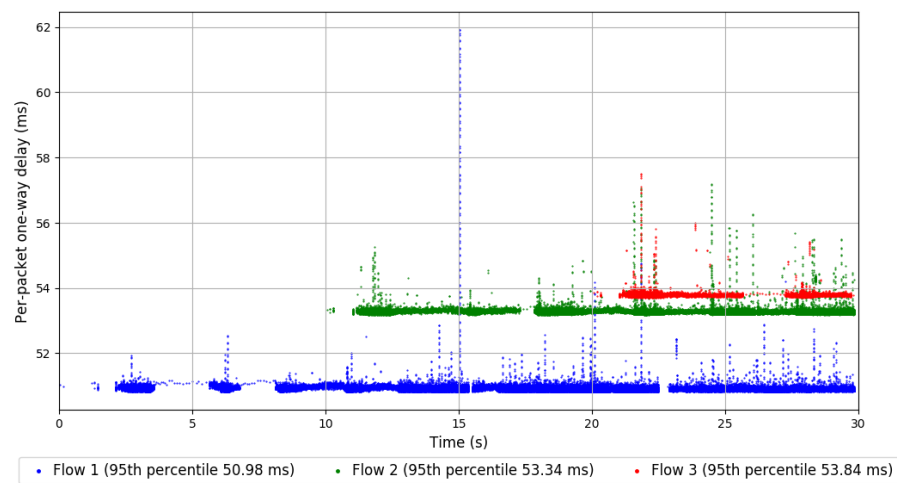
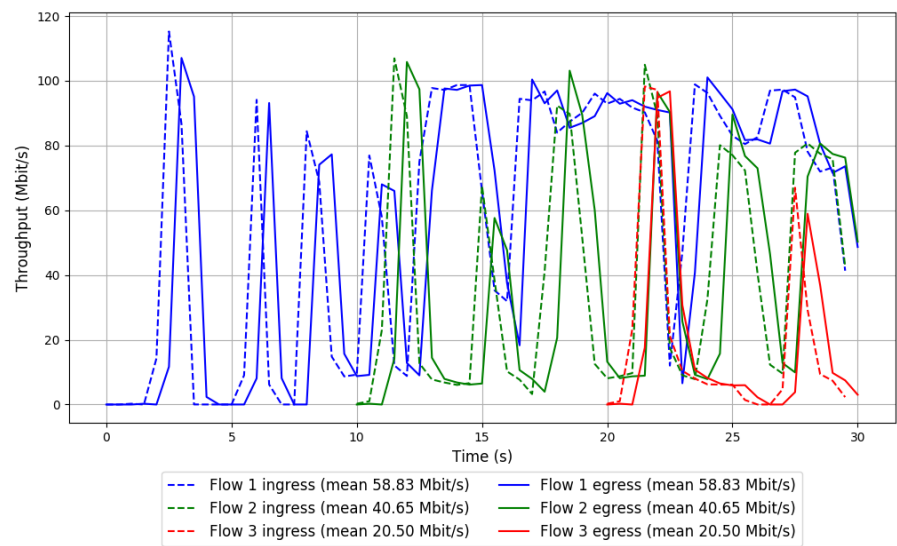
-- Flow 3:

Average throughput: 20.50 Mbit/s

95th percentile per-packet one-way delay: 53.836 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

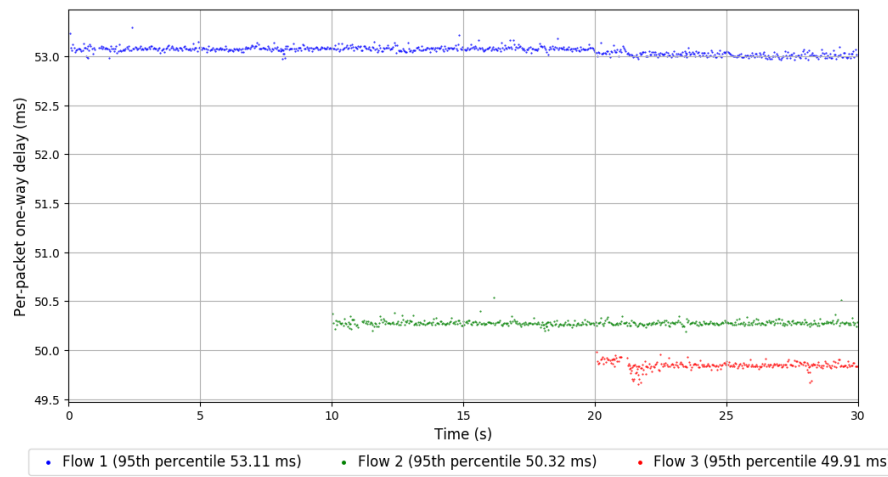
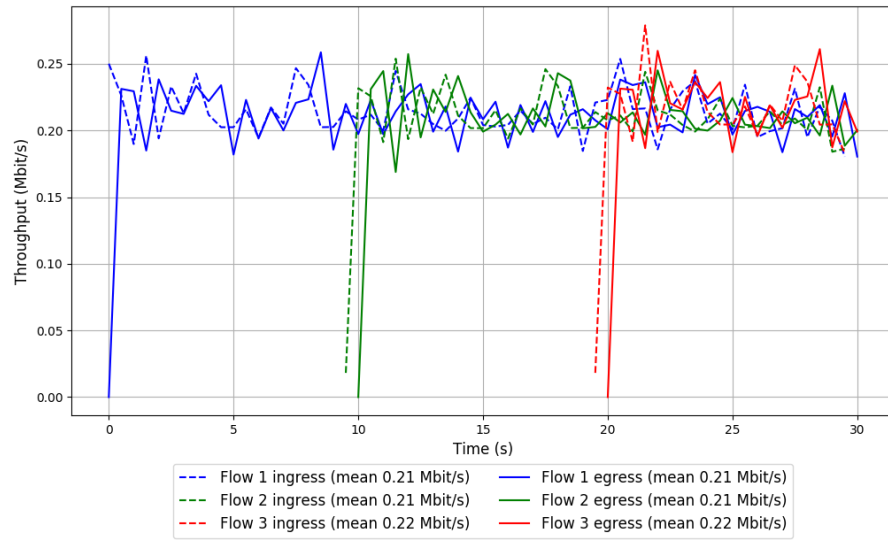



```
Run 1: Statistics of SCReAM

Start at: 2018-09-26 04:53:02
End at: 2018-09-26 04:53:32
Local clock offset: -0.025 ms
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2018-09-26 09:53:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.102 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.114 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.321 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.915 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

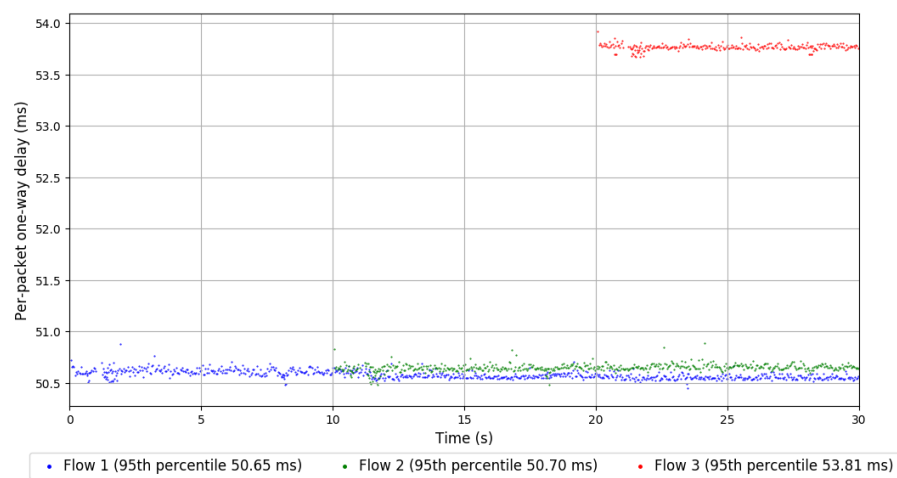
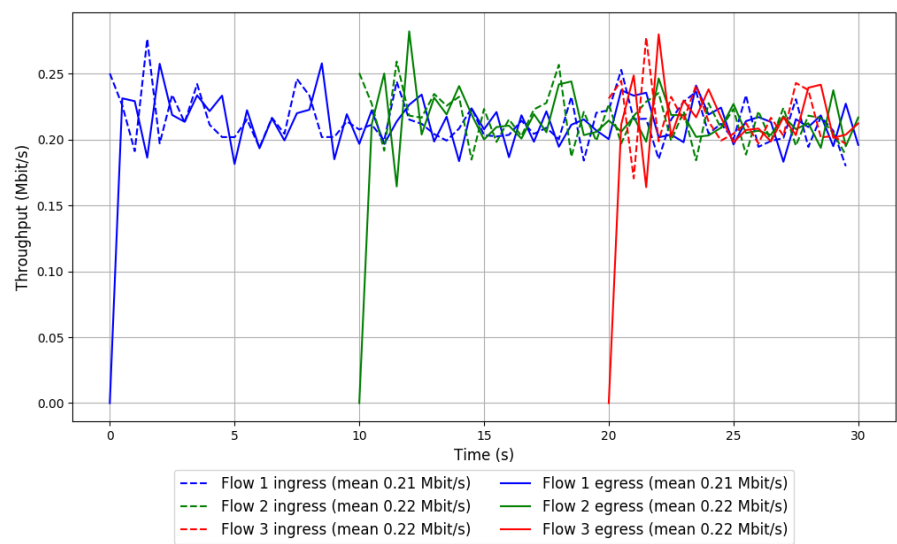


Run 2: Statistics of SReAM

Start at: 2018-09-26 05:25:54
End at: 2018-09-26 05:26:24
Local clock offset: -0.139 ms
Remote clock offset: 0.34 ms

Below is generated by plot.py at 2018-09-26 09:53:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.780 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.654 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.699 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.811 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-09-26 05:58:42

End at: 2018-09-26 05:59:12

Local clock offset: -0.164 ms

Remote clock offset: 0.295 ms

Below is generated by plot.py at 2018-09-26 09:53:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.243 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.276 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.214 ms

Loss rate: 0.00%

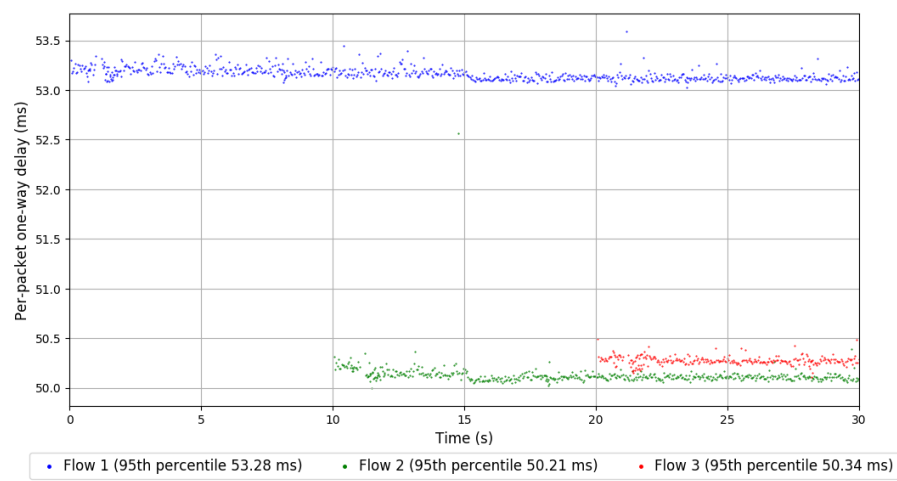
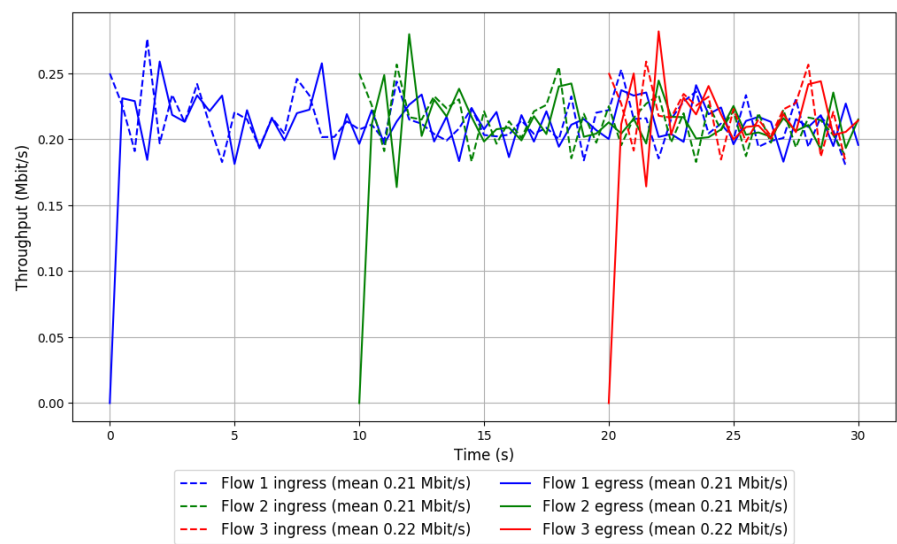
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.340 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-09-26 06:31:56

End at: 2018-09-26 06:32:26

Local clock offset: -0.14 ms

Remote clock offset: 0.736 ms

Below is generated by plot.py at 2018-09-26 09:53:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.868 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.588 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.725 ms

Loss rate: 0.00%

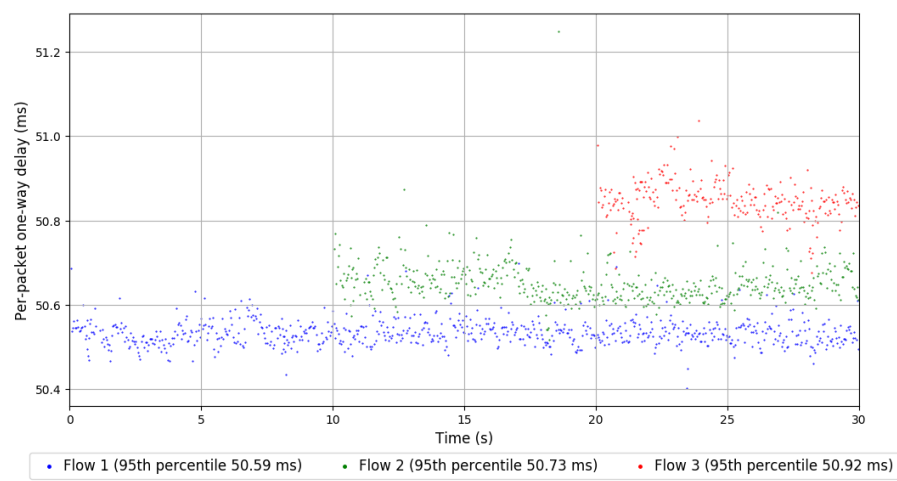
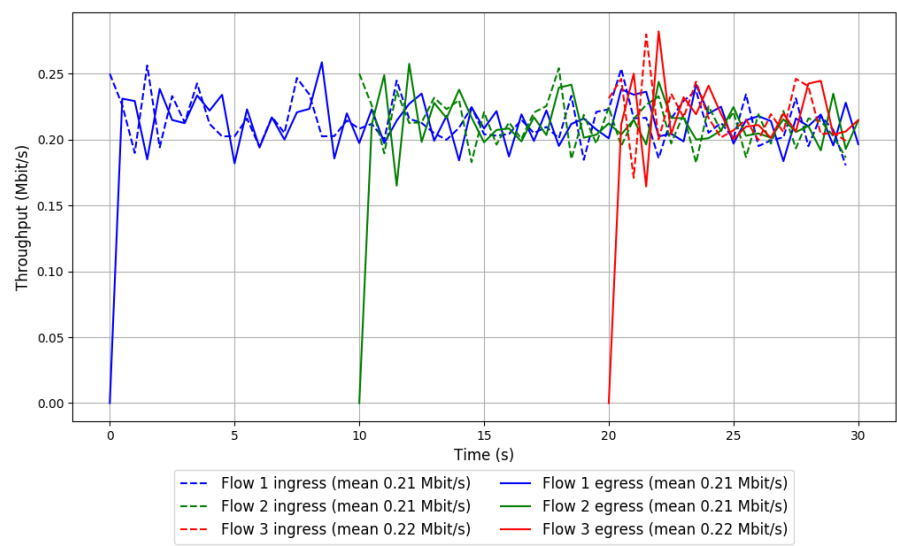
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.918 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-09-26 07:05:06

End at: 2018-09-26 07:05:36

Local clock offset: -0.127 ms

Remote clock offset: 1.881 ms

Below is generated by plot.py at 2018-09-26 09:53:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 54.840 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 52.057 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 54.419 ms

Loss rate: 0.00%

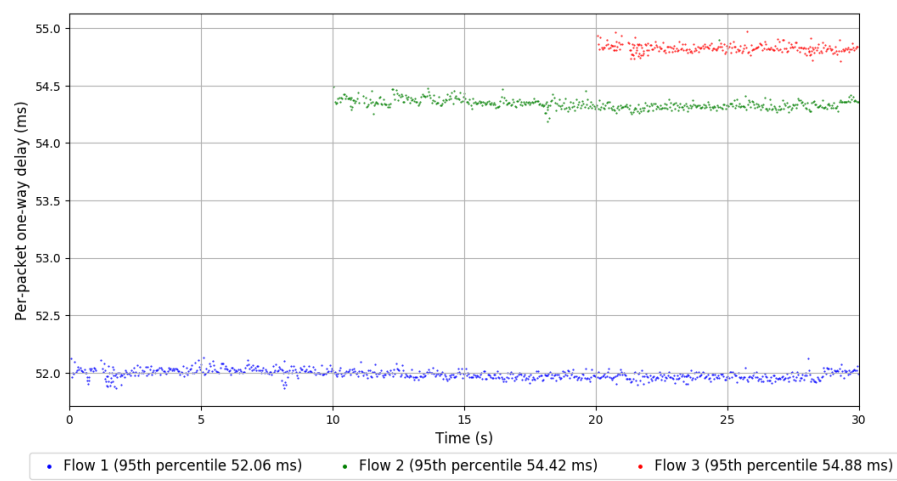
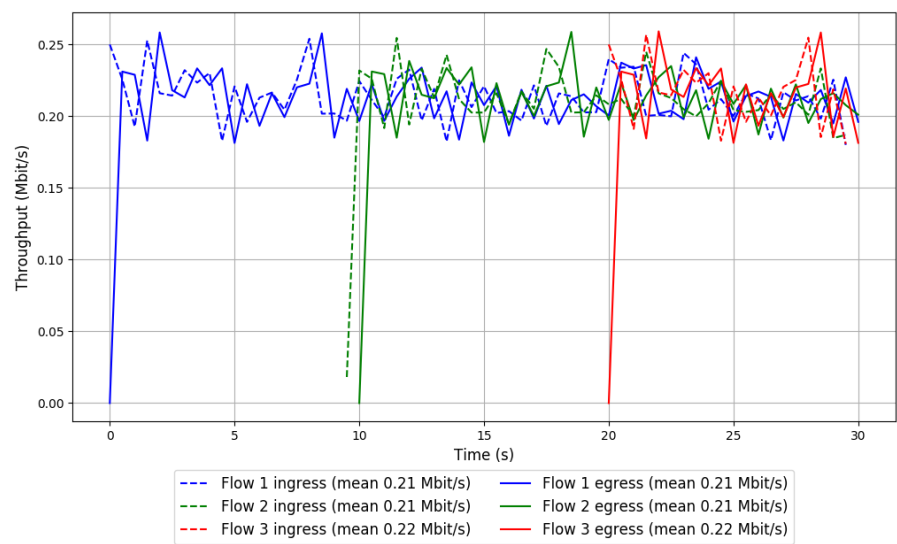
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 54.883 ms

Loss rate: 0.35%

Run 5: Report of SReAM — Data Link

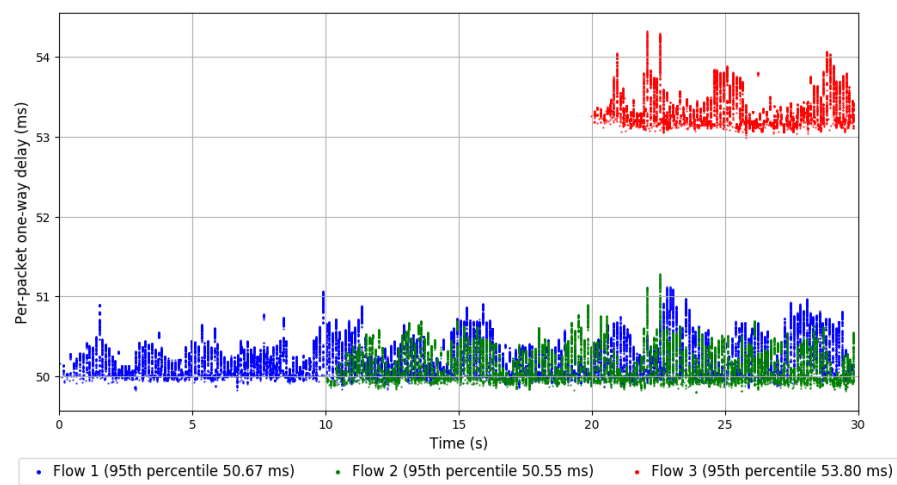
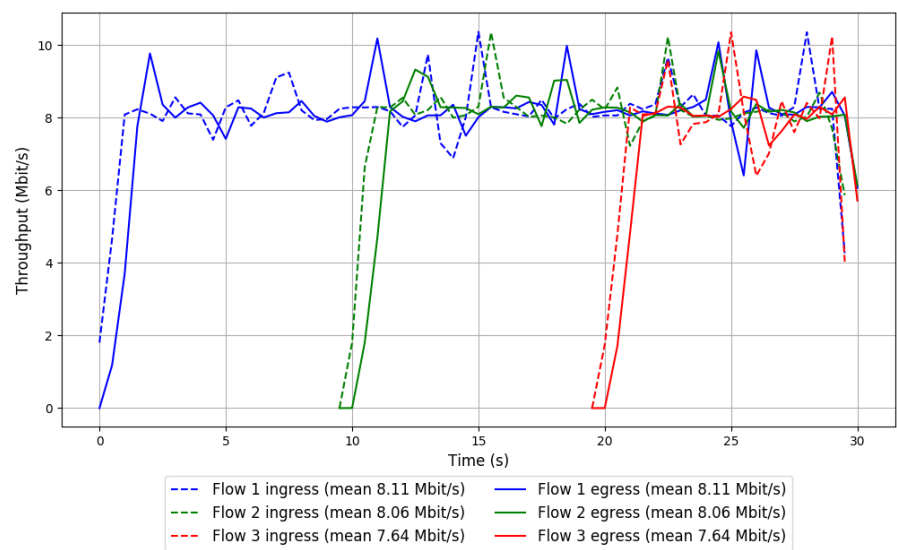


Run 1: Statistics of Sprout

Start at: 2018-09-26 05:03:38
End at: 2018-09-26 05:04:09
Local clock offset: -0.019 ms
Remote clock offset: -0.123 ms

Below is generated by plot.py at 2018-09-26 09:53:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.02 Mbit/s
95th percentile per-packet one-way delay: 53.434 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.11 Mbit/s
95th percentile per-packet one-way delay: 50.674 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.06 Mbit/s
95th percentile per-packet one-way delay: 50.554 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.64 Mbit/s
95th percentile per-packet one-way delay: 53.795 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-09-26 05:36:28

End at: 2018-09-26 05:36:58

Local clock offset: -0.145 ms

Remote clock offset: 0.139 ms

Below is generated by plot.py at 2018-09-26 09:53:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.82 Mbit/s

95th percentile per-packet one-way delay: 54.166 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 8.02 Mbit/s

95th percentile per-packet one-way delay: 54.247 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 8.10 Mbit/s

95th percentile per-packet one-way delay: 51.208 ms

Loss rate: 0.00%

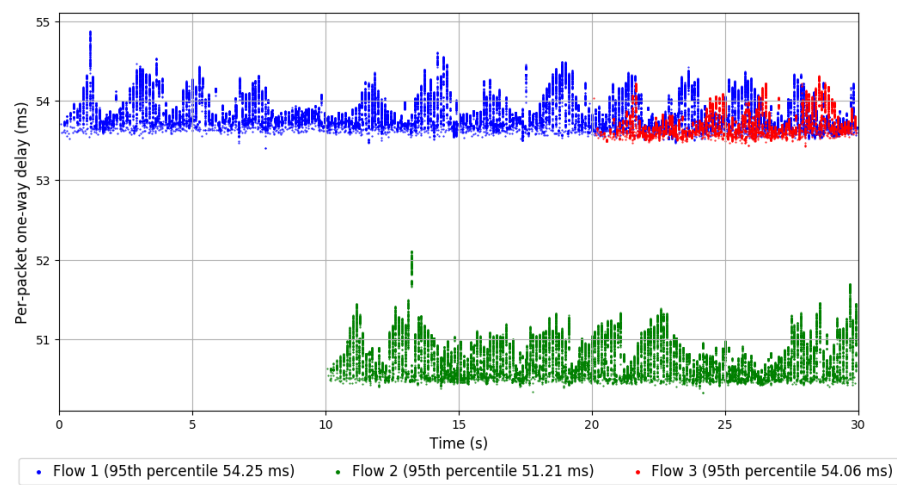
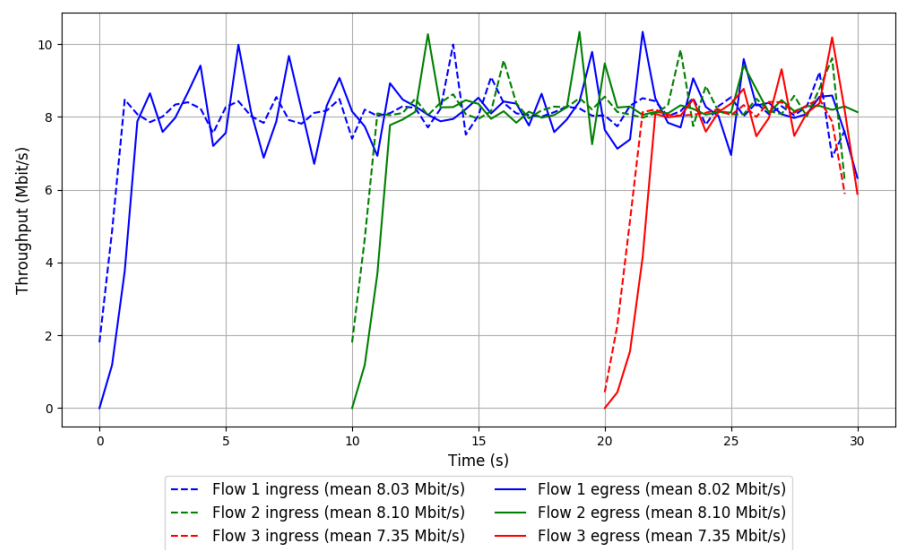
-- Flow 3:

Average throughput: 7.35 Mbit/s

95th percentile per-packet one-way delay: 54.057 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

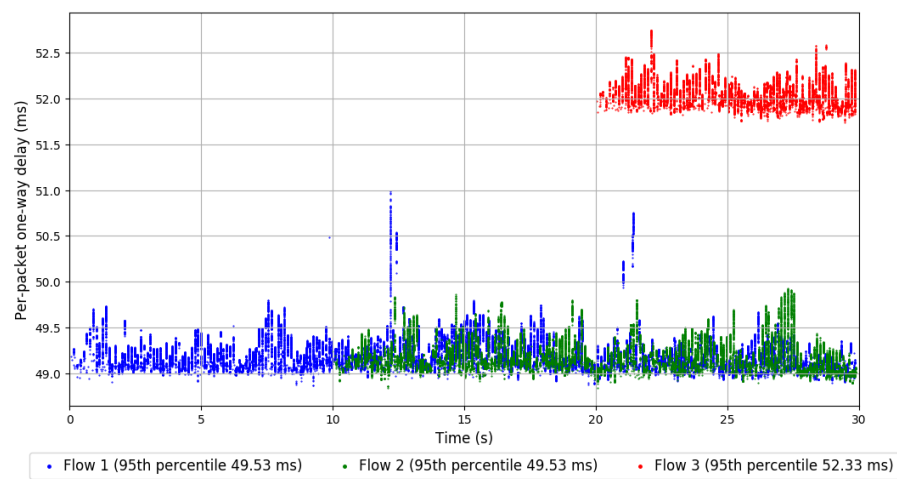
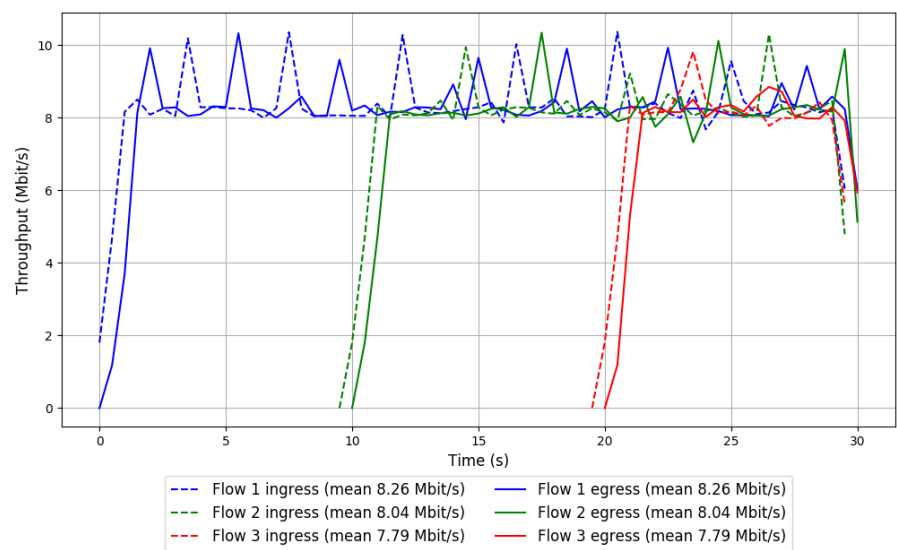


Run 3: Statistics of Sprout

Start at: 2018-09-26 06:09:36
End at: 2018-09-26 06:10:06
Local clock offset: -0.364 ms
Remote clock offset: -1.082 ms

Below is generated by plot.py at 2018-09-26 09:53:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.17 Mbit/s
95th percentile per-packet one-way delay: 52.107 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.26 Mbit/s
95th percentile per-packet one-way delay: 49.535 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.04 Mbit/s
95th percentile per-packet one-way delay: 49.531 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.79 Mbit/s
95th percentile per-packet one-way delay: 52.330 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

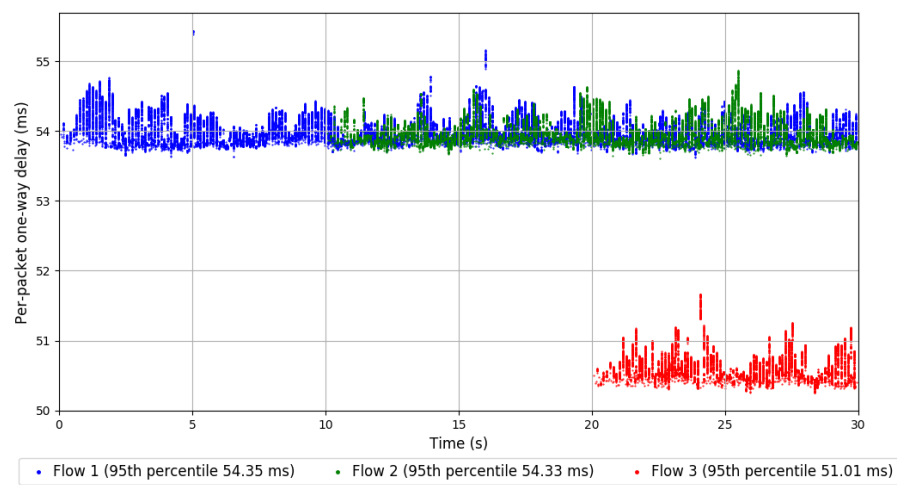
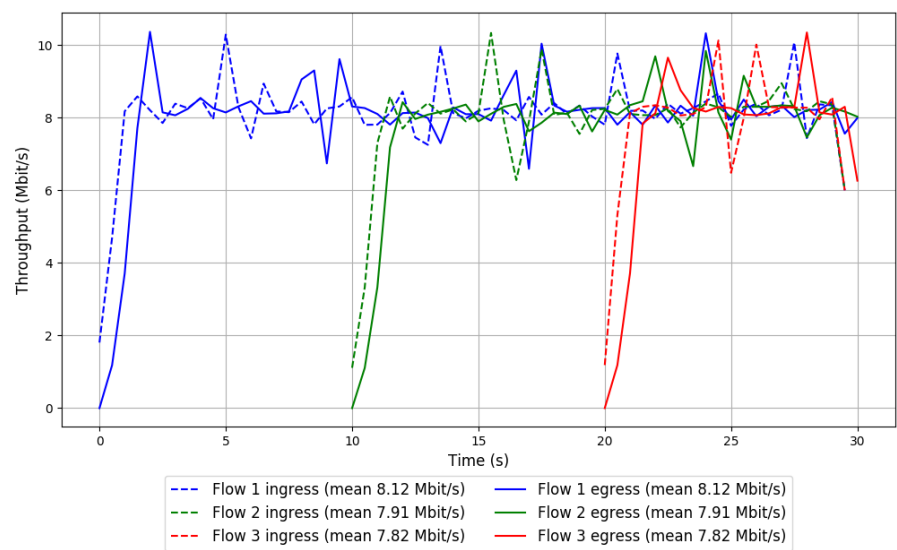


Run 4: Statistics of Sprout

Start at: 2018-09-26 06:42:47
End at: 2018-09-26 06:43:17
Local clock offset: -0.227 ms
Remote clock offset: 0.591 ms

```
# Below is generated by plot.py at 2018-09-26 09:53:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.96 Mbit/s
95th percentile per-packet one-way delay: 54.316 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.12 Mbit/s
95th percentile per-packet one-way delay: 54.352 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.91 Mbit/s
95th percentile per-packet one-way delay: 54.330 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.82 Mbit/s
95th percentile per-packet one-way delay: 51.010 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

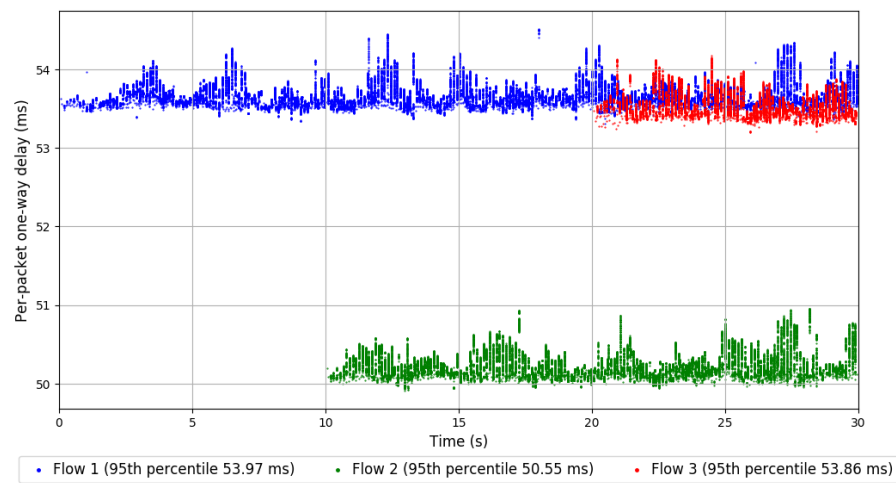
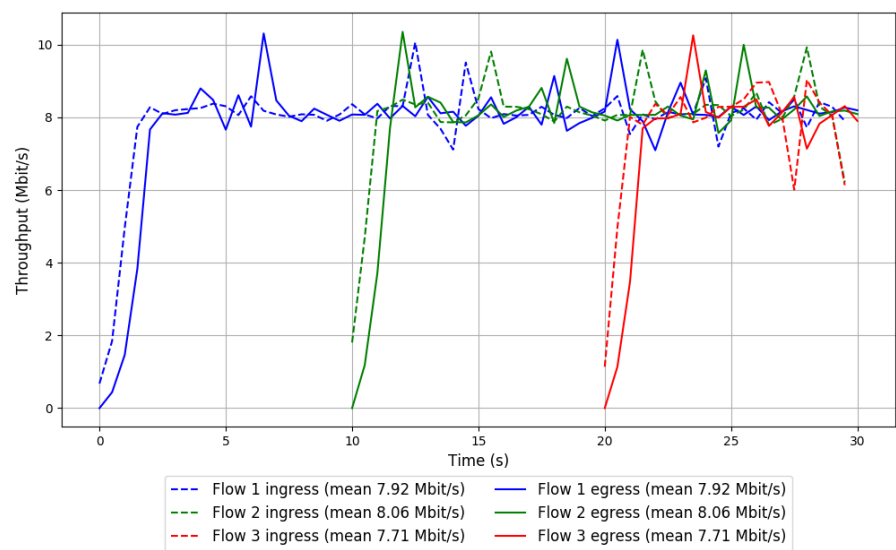


Run 5: Statistics of Sprout

Start at: 2018-09-26 07:15:37
End at: 2018-09-26 07:16:07
Local clock offset: -0.545 ms
Remote clock offset: 0.066 ms

```
# Below is generated by plot.py at 2018-09-26 09:53:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.82 Mbit/s
95th percentile per-packet one-way delay: 53.879 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.92 Mbit/s
95th percentile per-packet one-way delay: 53.967 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.06 Mbit/s
95th percentile per-packet one-way delay: 50.552 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.71 Mbit/s
95th percentile per-packet one-way delay: 53.863 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

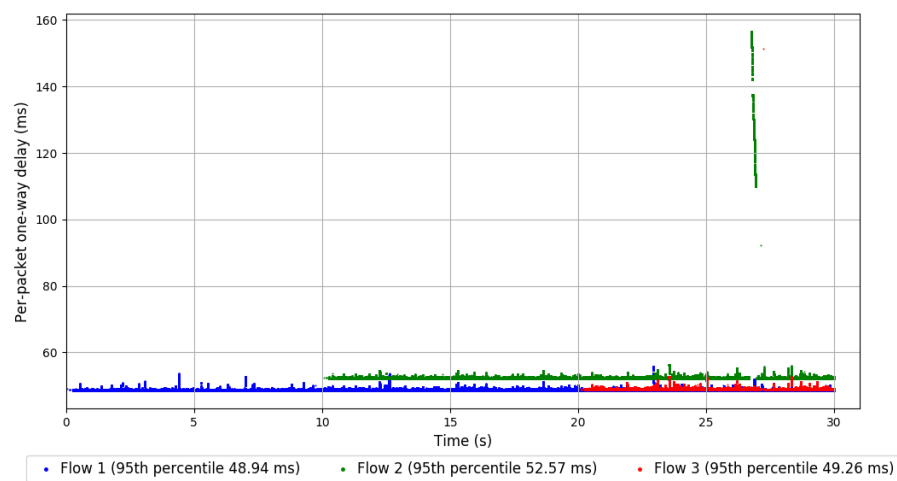
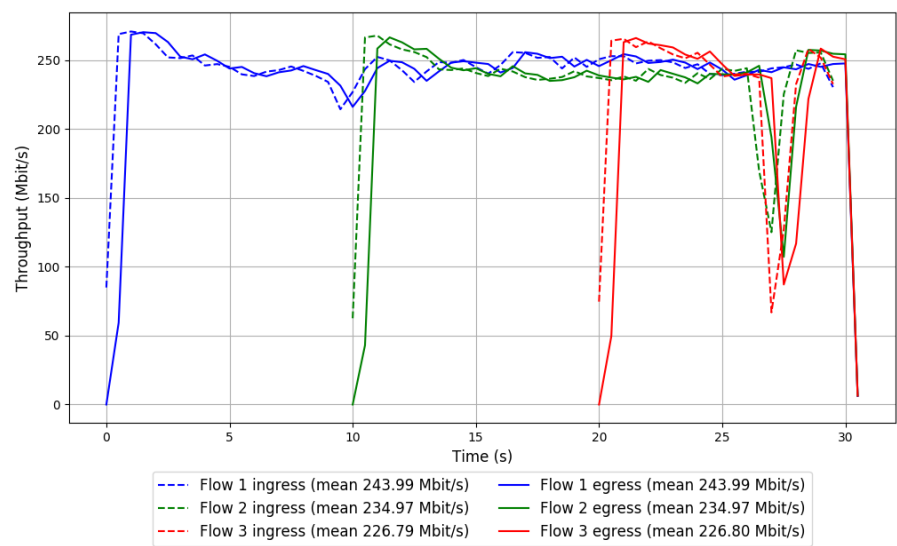


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-09-26 05:04:51
End at: 2018-09-26 05:05:21
Local clock offset: -0.169 ms
Remote clock offset: -1.193 ms

# Below is generated by plot.py at 2018-09-26 10:01:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 475.83 Mbit/s
95th percentile per-packet one-way delay: 52.372 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 243.99 Mbit/s
95th percentile per-packet one-way delay: 48.944 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 234.97 Mbit/s
95th percentile per-packet one-way delay: 52.571 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 226.80 Mbit/s
95th percentile per-packet one-way delay: 49.260 ms
Loss rate: 0.00%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-09-26 05:37:40

End at: 2018-09-26 05:38:10

Local clock offset: -0.347 ms

Remote clock offset: 0.188 ms

Below is generated by plot.py at 2018-09-26 10:01:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 464.08 Mbit/s

95th percentile per-packet one-way delay: 54.133 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 232.33 Mbit/s

95th percentile per-packet one-way delay: 54.030 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 240.25 Mbit/s

95th percentile per-packet one-way delay: 54.302 ms

Loss rate: 0.01%

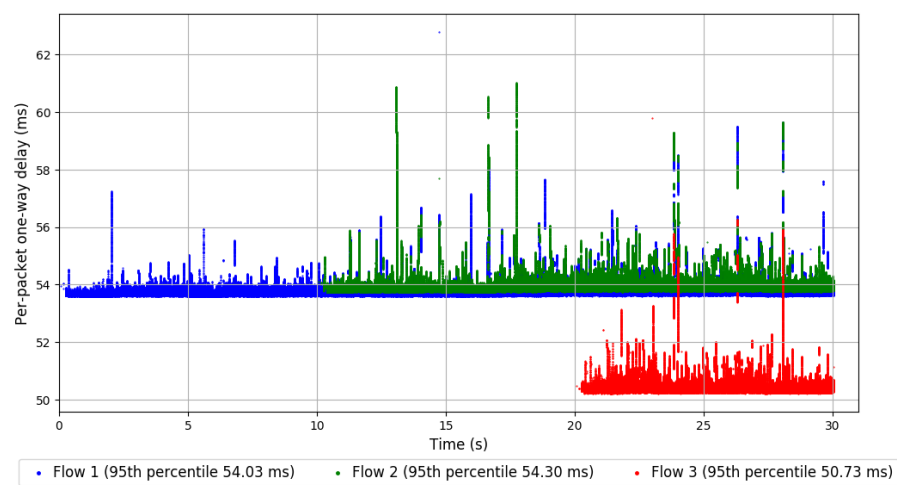
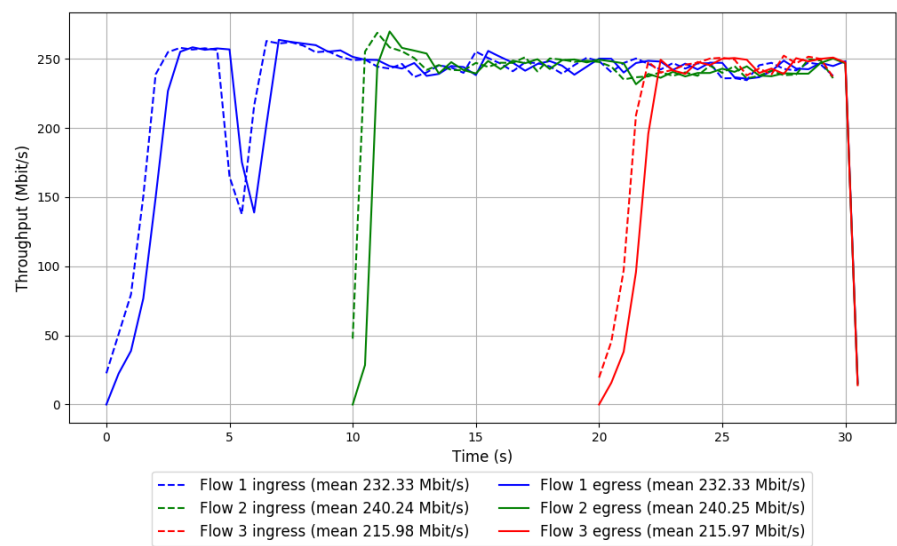
-- Flow 3:

Average throughput: 215.97 Mbit/s

95th percentile per-packet one-way delay: 50.727 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-09-26 06:10:49

End at: 2018-09-26 06:11:19

Local clock offset: -0.307 ms

Remote clock offset: 1.716 ms

Below is generated by plot.py at 2018-09-26 10:02:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 487.98 Mbit/s

95th percentile per-packet one-way delay: 55.228 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 247.24 Mbit/s

95th percentile per-packet one-way delay: 52.508 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 244.03 Mbit/s

95th percentile per-packet one-way delay: 56.275 ms

Loss rate: 0.01%

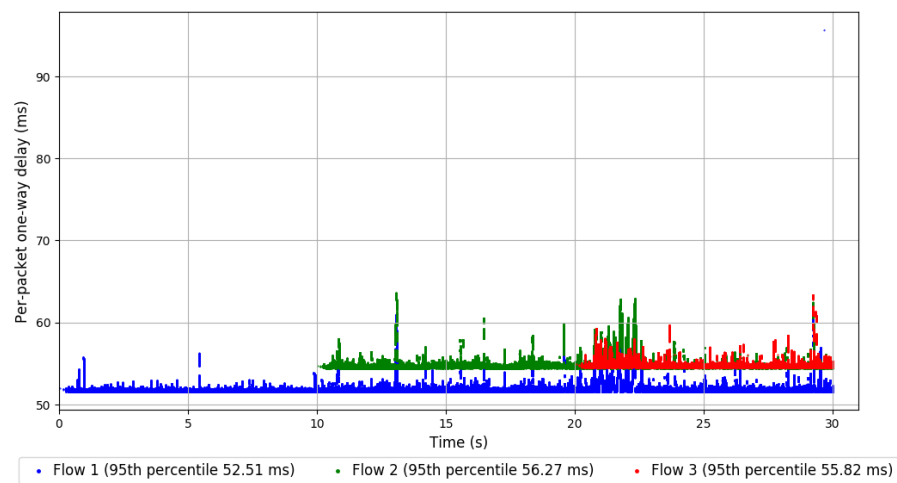
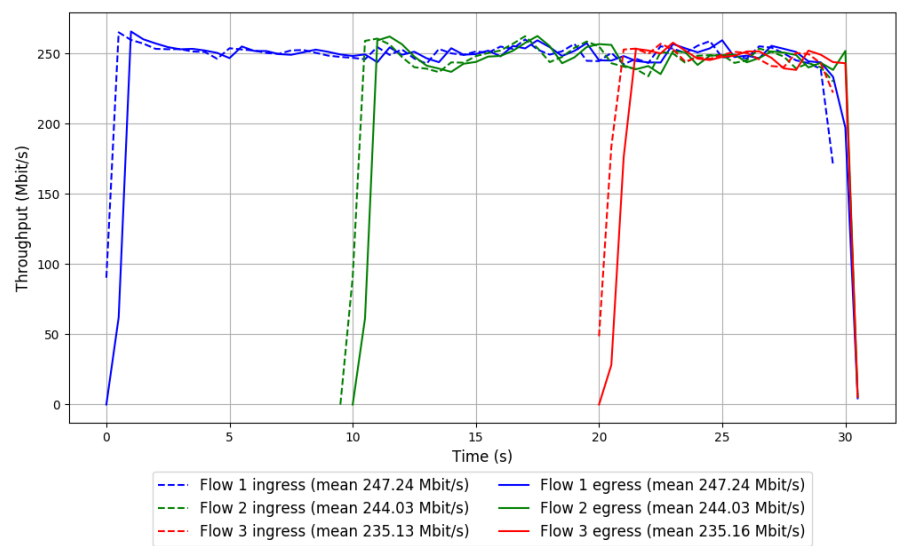
-- Flow 3:

Average throughput: 235.16 Mbit/s

95th percentile per-packet one-way delay: 55.816 ms

Loss rate: 0.01%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-09-26 06:43:59

End at: 2018-09-26 06:44:29

Local clock offset: -0.305 ms

Remote clock offset: 0.217 ms

Below is generated by plot.py at 2018-09-26 10:02:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 475.62 Mbit/s

95th percentile per-packet one-way delay: 50.456 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 242.14 Mbit/s

95th percentile per-packet one-way delay: 50.345 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 233.89 Mbit/s

95th percentile per-packet one-way delay: 50.621 ms

Loss rate: 0.00%

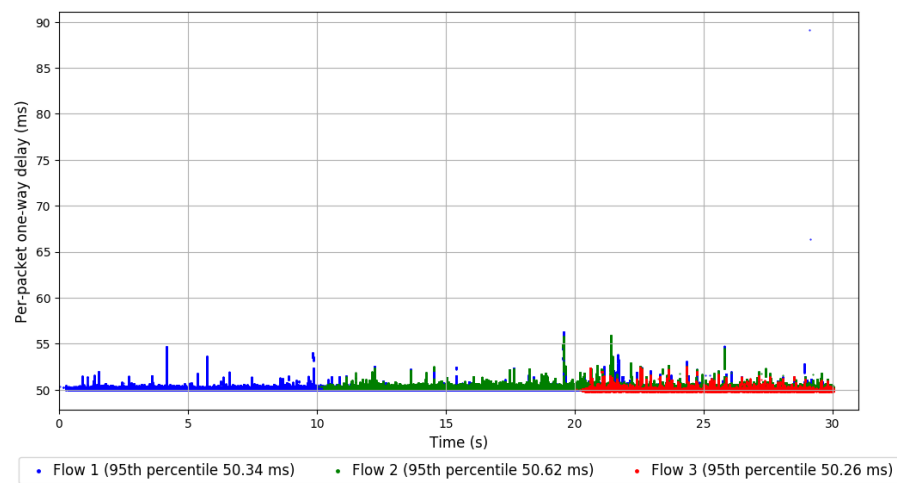
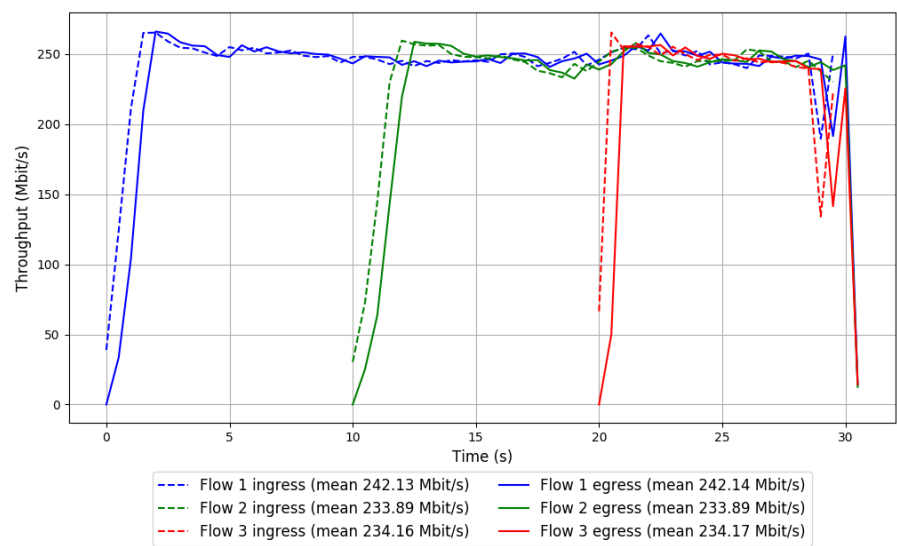
-- Flow 3:

Average throughput: 234.17 Mbit/s

95th percentile per-packet one-way delay: 50.255 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-09-26 07:16:50

End at: 2018-09-26 07:17:20

Local clock offset: -0.368 ms

Remote clock offset: 1.889 ms

Below is generated by plot.py at 2018-09-26 10:05:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 478.55 Mbit/s

95th percentile per-packet one-way delay: 55.300 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 242.42 Mbit/s

95th percentile per-packet one-way delay: 55.143 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 235.22 Mbit/s

95th percentile per-packet one-way delay: 55.597 ms

Loss rate: 0.01%

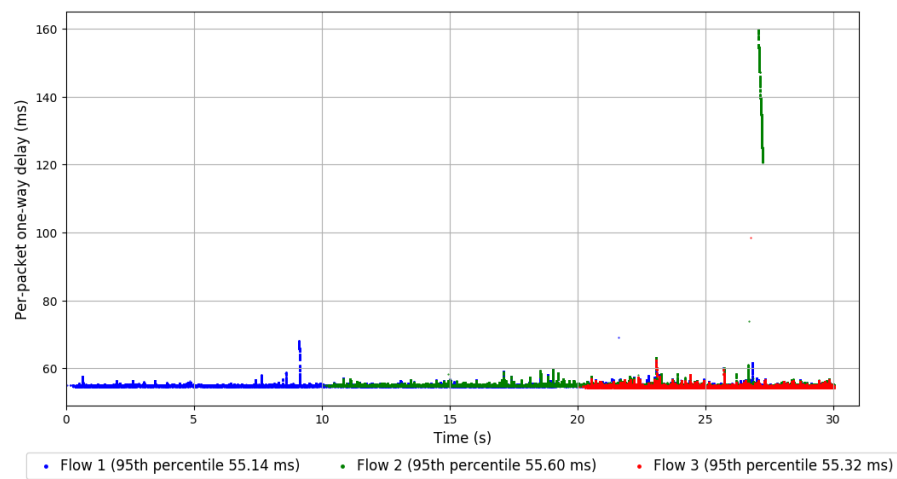
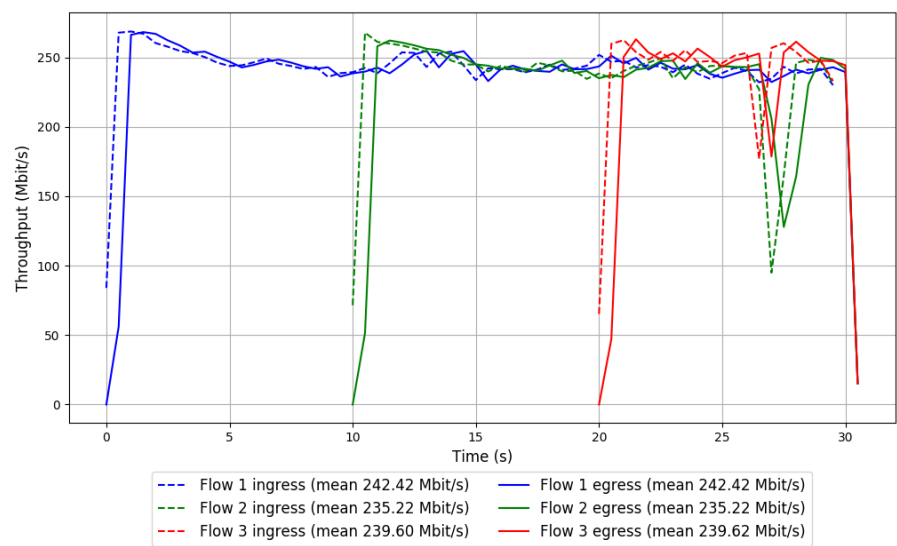
-- Flow 3:

Average throughput: 239.62 Mbit/s

95th percentile per-packet one-way delay: 55.319 ms

Loss rate: 0.01%

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

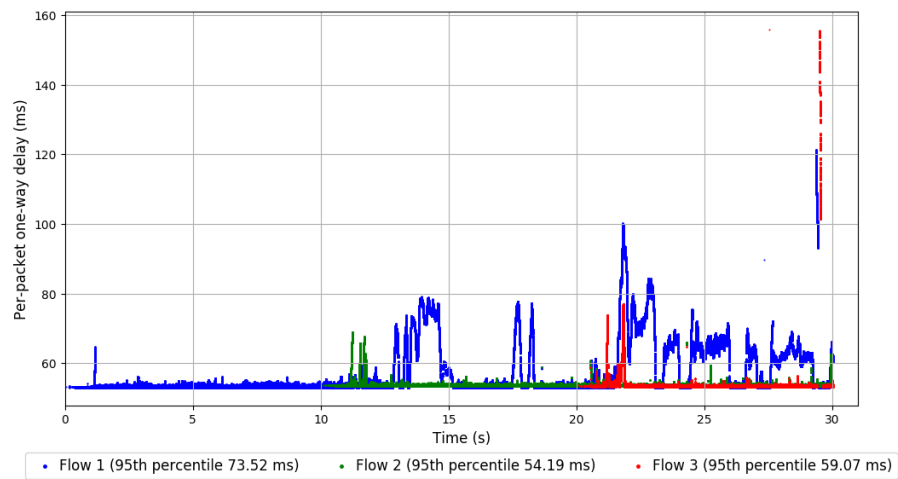
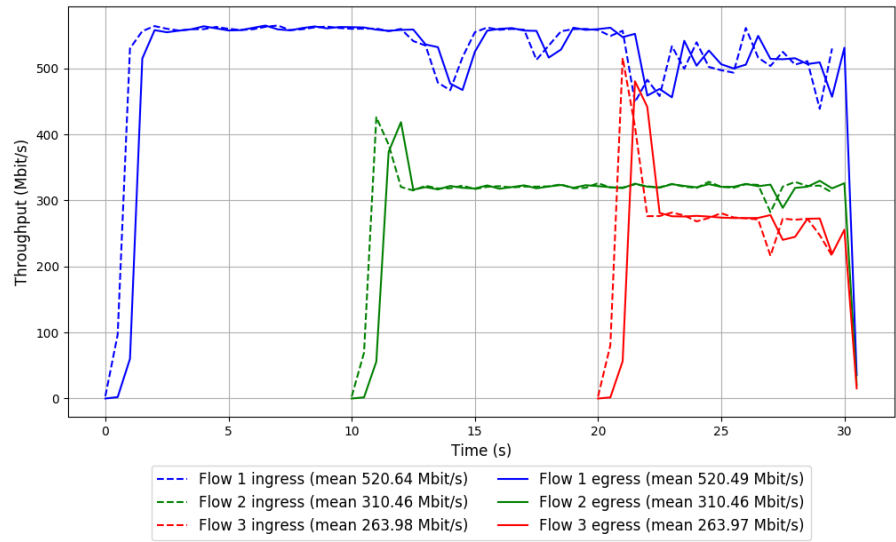


Run 1: Statistics of TCP Vegas

Start at: 2018-09-26 04:59:49
End at: 2018-09-26 05:00:19
Local clock offset: -0.244 ms
Remote clock offset: -0.164 ms

Below is generated by plot.py at 2018-09-26 10:05:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 815.02 Mbit/s
95th percentile per-packet one-way delay: 70.653 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 520.49 Mbit/s
95th percentile per-packet one-way delay: 73.520 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 310.46 Mbit/s
95th percentile per-packet one-way delay: 54.190 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 263.97 Mbit/s
95th percentile per-packet one-way delay: 59.068 ms
Loss rate: 0.03%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-09-26 05:32:42

End at: 2018-09-26 05:33:12

Local clock offset: -0.146 ms

Remote clock offset: 0.572 ms

Below is generated by plot.py at 2018-09-26 10:05:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 702.14 Mbit/s

95th percentile per-packet one-way delay: 56.334 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 338.06 Mbit/s

95th percentile per-packet one-way delay: 55.678 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 308.91 Mbit/s

95th percentile per-packet one-way delay: 59.290 ms

Loss rate: 0.00%

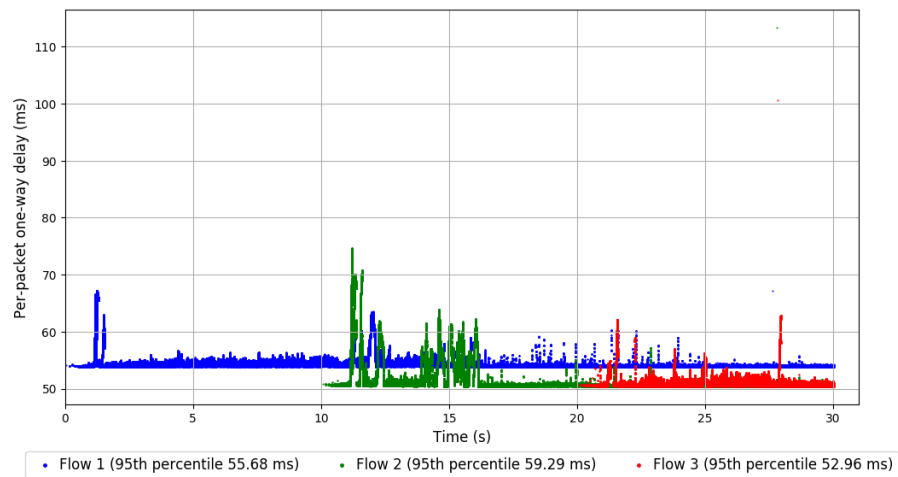
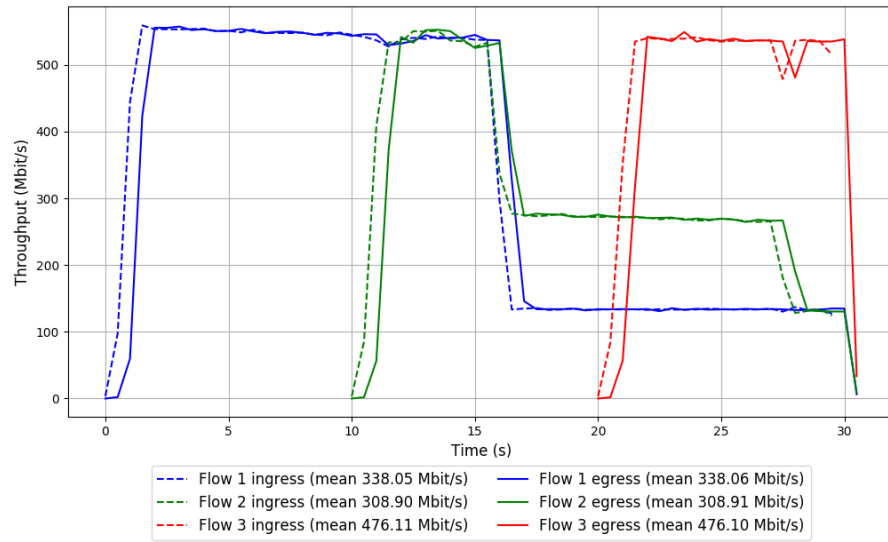
-- Flow 3:

Average throughput: 476.10 Mbit/s

95th percentile per-packet one-way delay: 52.962 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-09-26 06:05:36

End at: 2018-09-26 06:06:06

Local clock offset: -0.118 ms

Remote clock offset: 0.183 ms

Below is generated by plot.py at 2018-09-26 10:15:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 1030.89 Mbit/s

95th percentile per-packet one-way delay: 63.730 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 529.66 Mbit/s

95th percentile per-packet one-way delay: 61.282 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 513.77 Mbit/s

95th percentile per-packet one-way delay: 65.895 ms

Loss rate: 0.01%

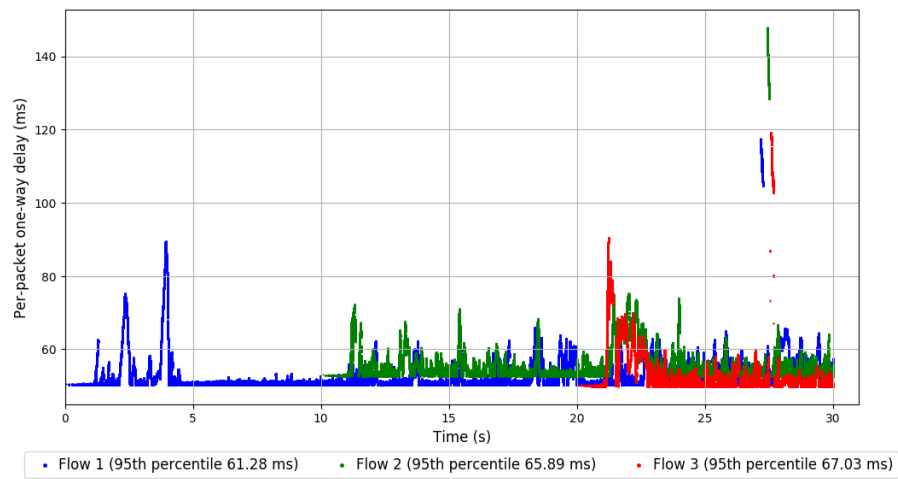
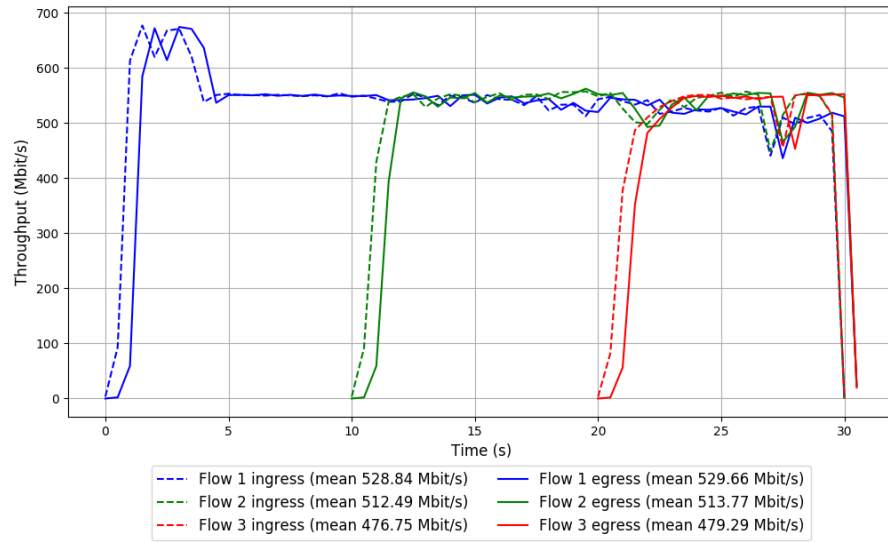
-- Flow 3:

Average throughput: 479.29 Mbit/s

95th percentile per-packet one-way delay: 67.027 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-09-26 06:38:52

End at: 2018-09-26 06:39:22

Local clock offset: -0.379 ms

Remote clock offset: 0.481 ms

Below is generated by plot.py at 2018-09-26 10:20:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 1024.78 Mbit/s

95th percentile per-packet one-way delay: 71.572 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 531.67 Mbit/s

95th percentile per-packet one-way delay: 71.091 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 512.42 Mbit/s

95th percentile per-packet one-way delay: 79.757 ms

Loss rate: 0.05%

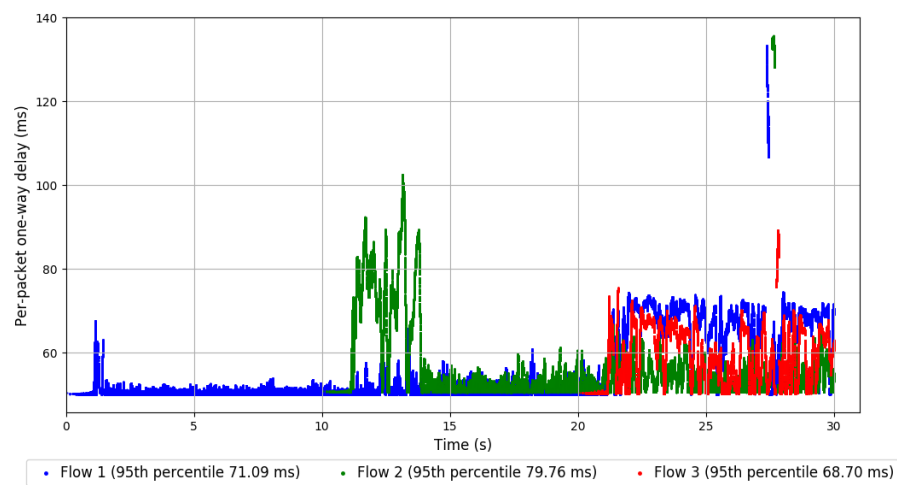
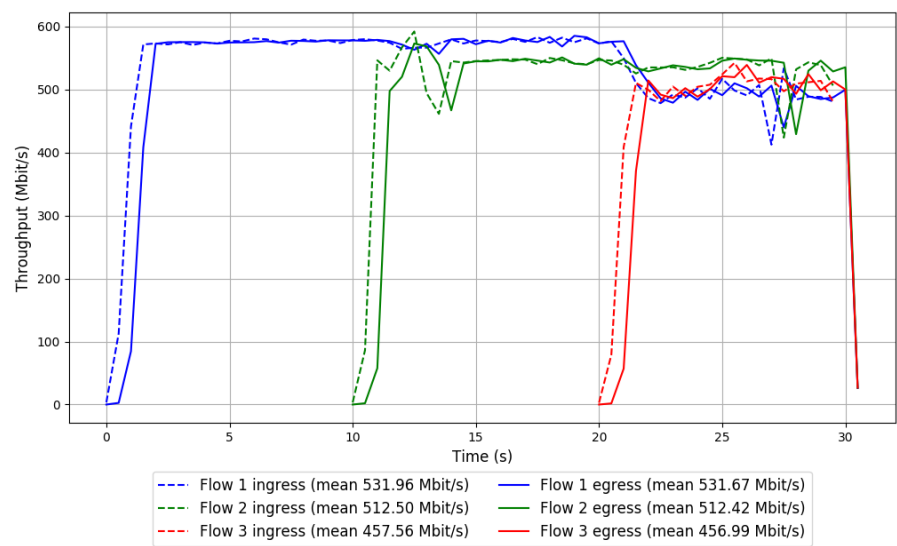
-- Flow 3:

Average throughput: 456.99 Mbit/s

95th percentile per-packet one-way delay: 68.702 ms

Loss rate: 0.19%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-09-26 07:11:47

End at: 2018-09-26 07:12:17

Local clock offset: -0.451 ms

Remote clock offset: 0.783 ms

Below is generated by plot.py at 2018-09-26 10:20:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 846.64 Mbit/s

95th percentile per-packet one-way delay: 64.373 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 521.90 Mbit/s

95th percentile per-packet one-way delay: 65.521 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 267.80 Mbit/s

95th percentile per-packet one-way delay: 53.918 ms

Loss rate: 0.02%

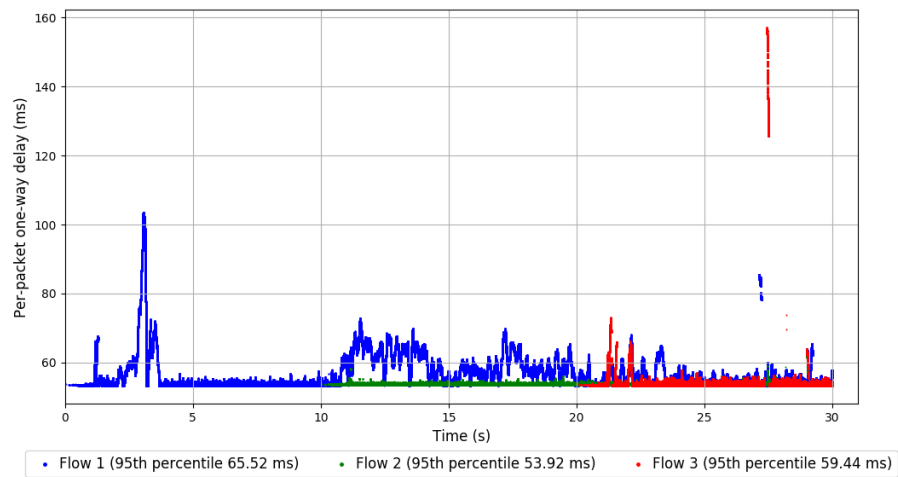
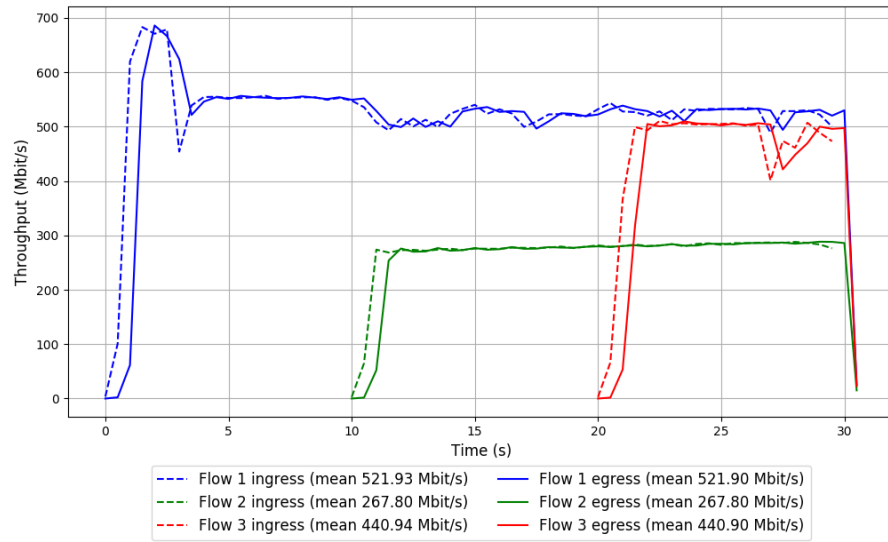
-- Flow 3:

Average throughput: 440.90 Mbit/s

95th percentile per-packet one-way delay: 59.444 ms

Loss rate: 0.03%

Run 5: Report of TCP Vegas — Data Link

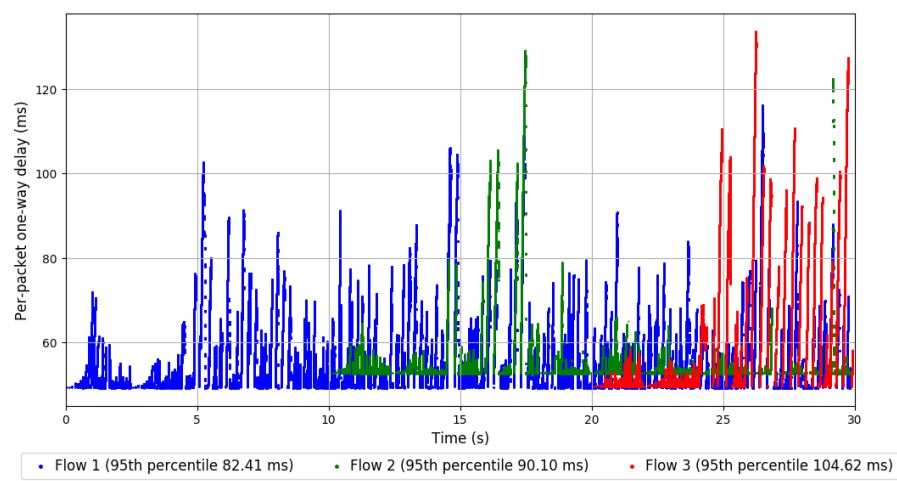
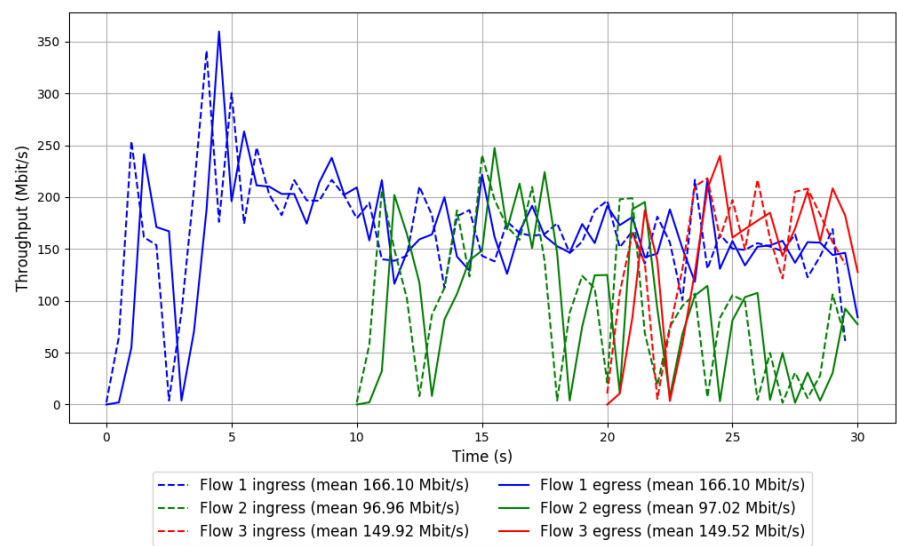


Run 1: Statistics of Verus

Start at: 2018-09-26 04:58:12
End at: 2018-09-26 04:58:42
Local clock offset: -0.172 ms
Remote clock offset: -0.856 ms

Below is generated by plot.py at 2018-09-26 10:20:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 279.37 Mbit/s
95th percentile per-packet one-way delay: 92.573 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 166.10 Mbit/s
95th percentile per-packet one-way delay: 82.409 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 97.02 Mbit/s
95th percentile per-packet one-way delay: 90.096 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 149.52 Mbit/s
95th percentile per-packet one-way delay: 104.616 ms
Loss rate: 0.26%

Run 1: Report of Verus — Data Link

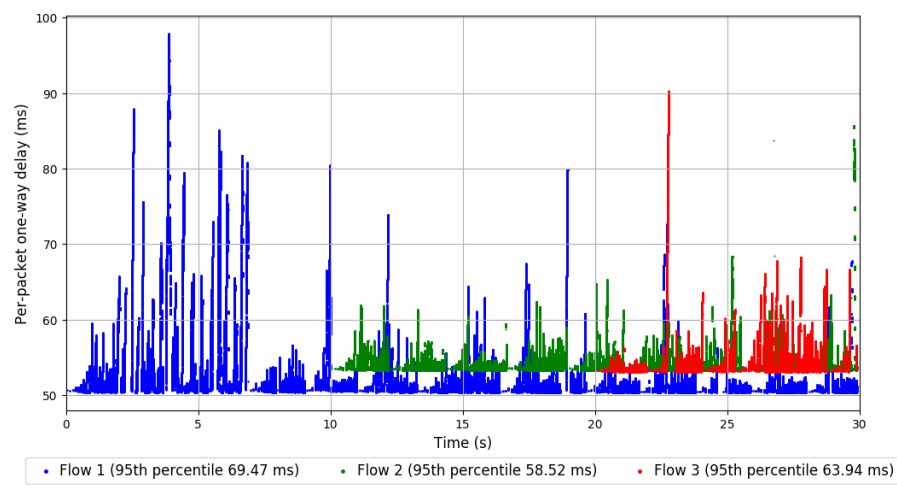
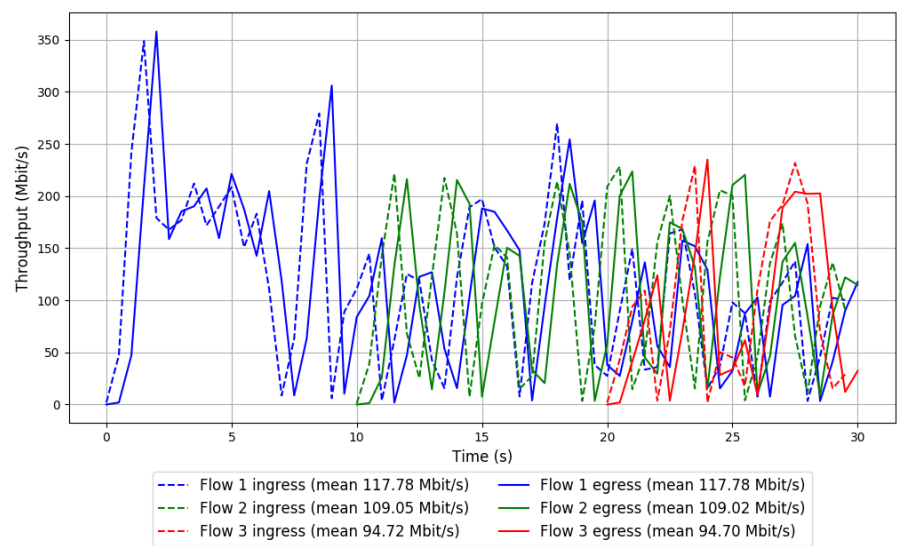


Run 2: Statistics of Verus

Start at: 2018-09-26 05:31:10
End at: 2018-09-26 05:31:40
Local clock offset: -0.143 ms
Remote clock offset: 0.375 ms

Below is generated by plot.py at 2018-09-26 10:20:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 221.43 Mbit/s
95th percentile per-packet one-way delay: 64.292 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 117.78 Mbit/s
95th percentile per-packet one-way delay: 69.473 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 109.02 Mbit/s
95th percentile per-packet one-way delay: 58.515 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 94.70 Mbit/s
95th percentile per-packet one-way delay: 63.944 ms
Loss rate: 0.00%

Run 2: Report of Verus — Data Link

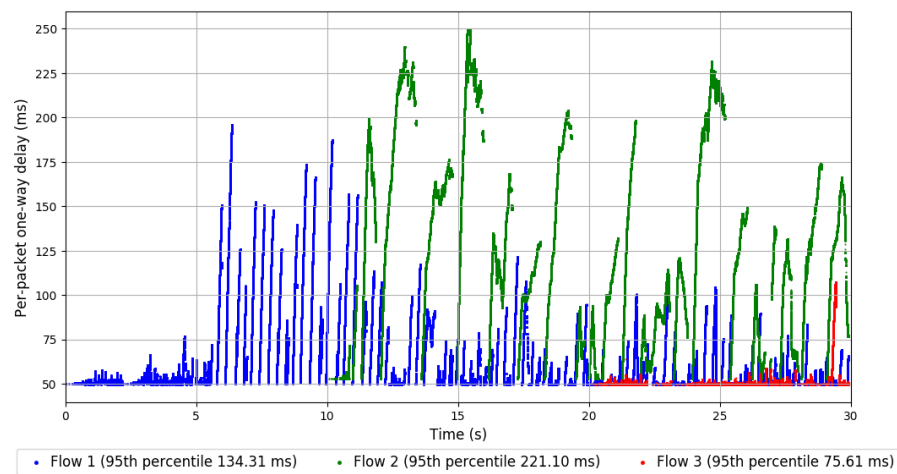
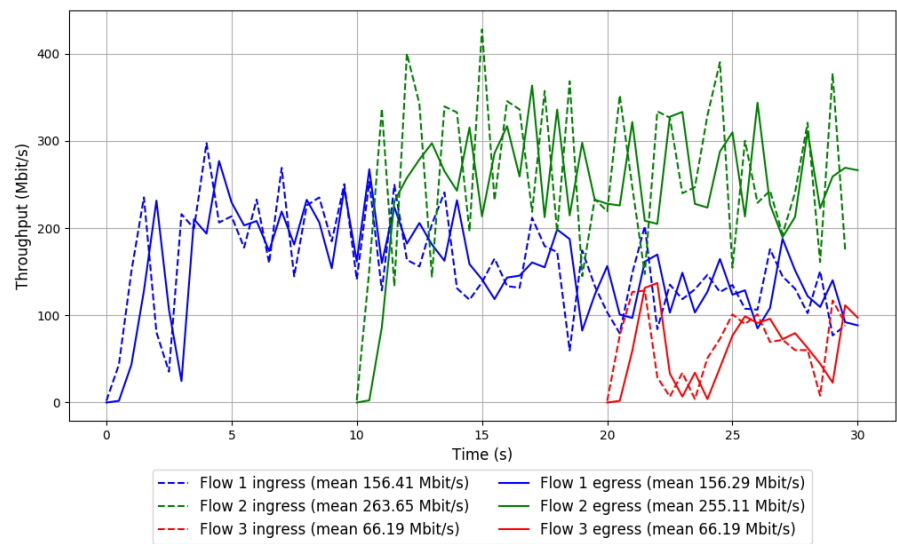


Run 3: Statistics of Verus

Start at: 2018-09-26 06:03:51
End at: 2018-09-26 06:04:21
Local clock offset: -0.201 ms
Remote clock offset: -0.415 ms

Below is generated by plot.py at 2018-09-26 10:20:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 347.64 Mbit/s
95th percentile per-packet one-way delay: 210.036 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 156.29 Mbit/s
95th percentile per-packet one-way delay: 134.308 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 255.11 Mbit/s
95th percentile per-packet one-way delay: 221.103 ms
Loss rate: 3.29%
-- Flow 3:
Average throughput: 66.19 Mbit/s
95th percentile per-packet one-way delay: 75.606 ms
Loss rate: 0.00%

Run 3: Report of Verus — Data Link

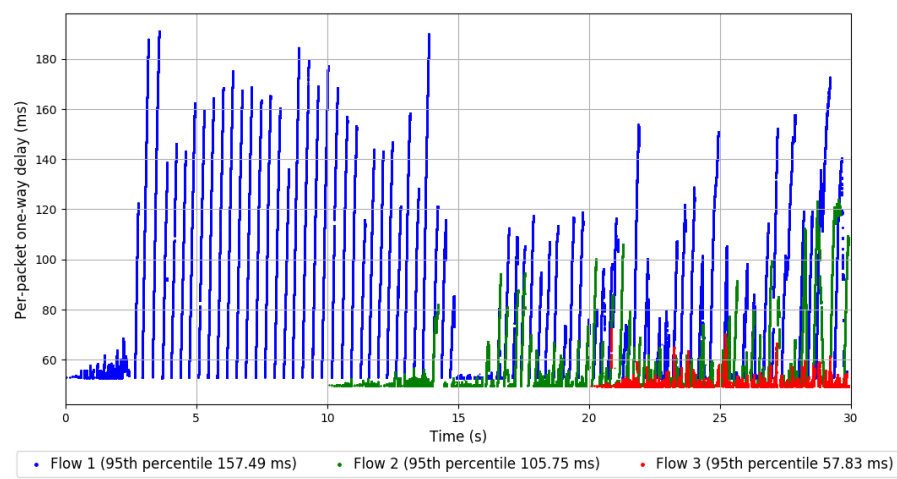
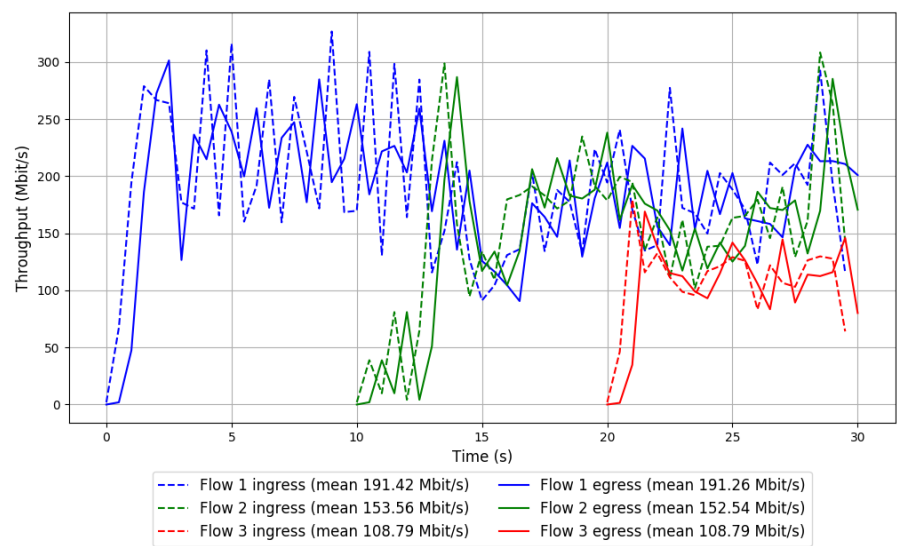


Run 4: Statistics of Verus

Start at: 2018-09-26 06:37:11
End at: 2018-09-26 06:37:41
Local clock offset: -0.033 ms
Remote clock offset: -0.117 ms

Below is generated by plot.py at 2018-09-26 10:20:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 327.98 Mbit/s
95th percentile per-packet one-way delay: 149.197 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 191.26 Mbit/s
95th percentile per-packet one-way delay: 157.488 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 152.54 Mbit/s
95th percentile per-packet one-way delay: 105.745 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 108.79 Mbit/s
95th percentile per-packet one-way delay: 57.833 ms
Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-09-26 07:10:11

End at: 2018-09-26 07:10:41

Local clock offset: -0.406 ms

Remote clock offset: 0.657 ms

Below is generated by plot.py at 2018-09-26 10:20:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 261.99 Mbit/s

95th percentile per-packet one-way delay: 97.403 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 161.95 Mbit/s

95th percentile per-packet one-way delay: 96.924 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 95.28 Mbit/s

95th percentile per-packet one-way delay: 77.334 ms

Loss rate: 0.77%

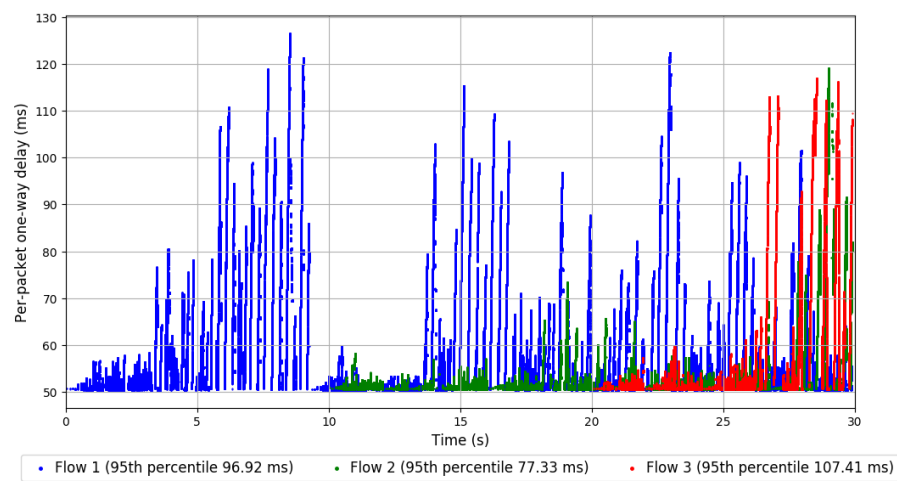
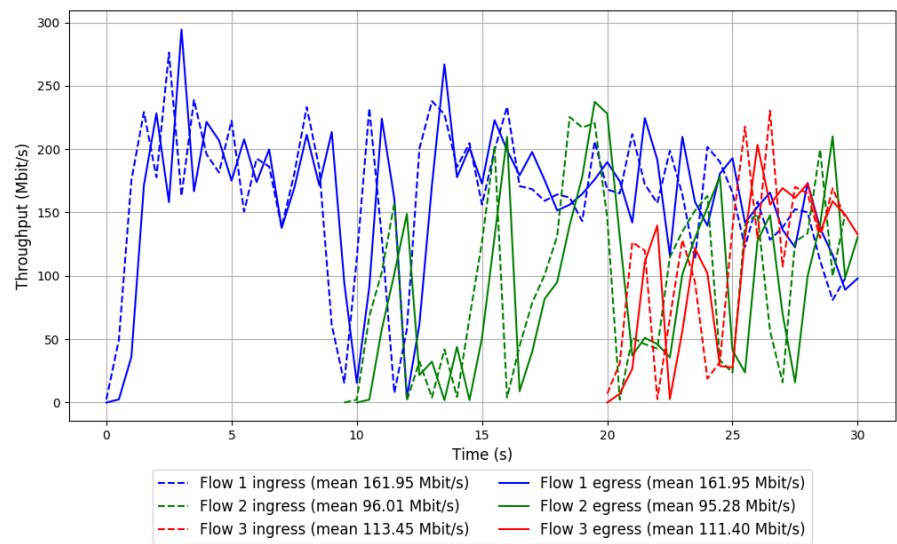
-- Flow 3:

Average throughput: 111.40 Mbit/s

95th percentile per-packet one-way delay: 107.405 ms

Loss rate: 1.78%

Run 5: Report of Verus — Data Link

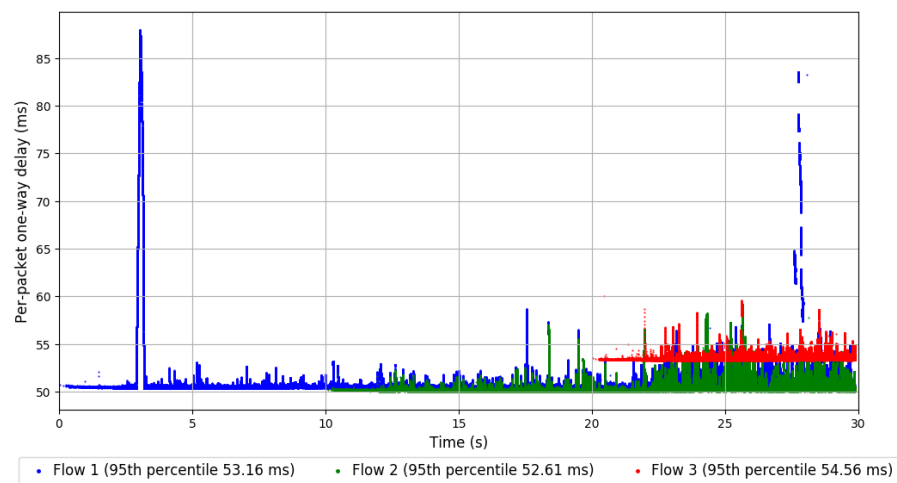
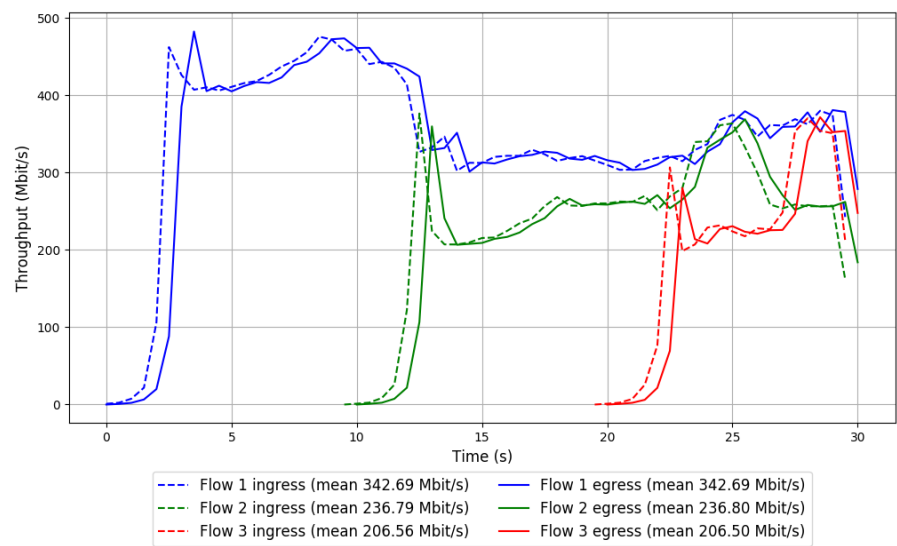


Run 1: Statistics of PCC-Vivace

Start at: 2018-09-26 04:49:13
End at: 2018-09-26 04:49:43
Local clock offset: -0.179 ms
Remote clock offset: -0.054 ms

Below is generated by plot.py at 2018-09-26 10:21:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 568.64 Mbit/s
95th percentile per-packet one-way delay: 53.751 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 342.69 Mbit/s
95th percentile per-packet one-way delay: 53.163 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 236.80 Mbit/s
95th percentile per-packet one-way delay: 52.611 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 206.50 Mbit/s
95th percentile per-packet one-way delay: 54.560 ms
Loss rate: 0.05%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-09-26 05:22:01

End at: 2018-09-26 05:22:31

Local clock offset: -0.271 ms

Remote clock offset: 1.423 ms

Below is generated by plot.py at 2018-09-26 10:21:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 536.98 Mbit/s

95th percentile per-packet one-way delay: 53.554 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 322.29 Mbit/s

95th percentile per-packet one-way delay: 54.359 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 260.27 Mbit/s

95th percentile per-packet one-way delay: 52.837 ms

Loss rate: 0.00%

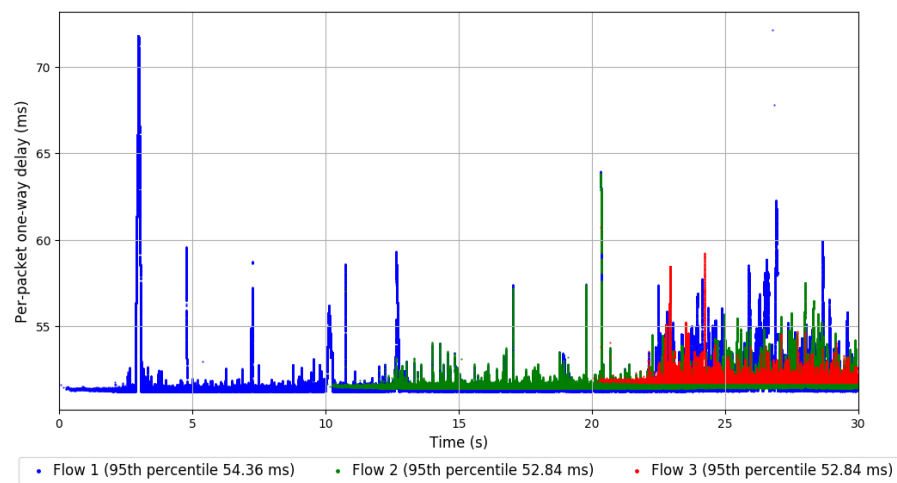
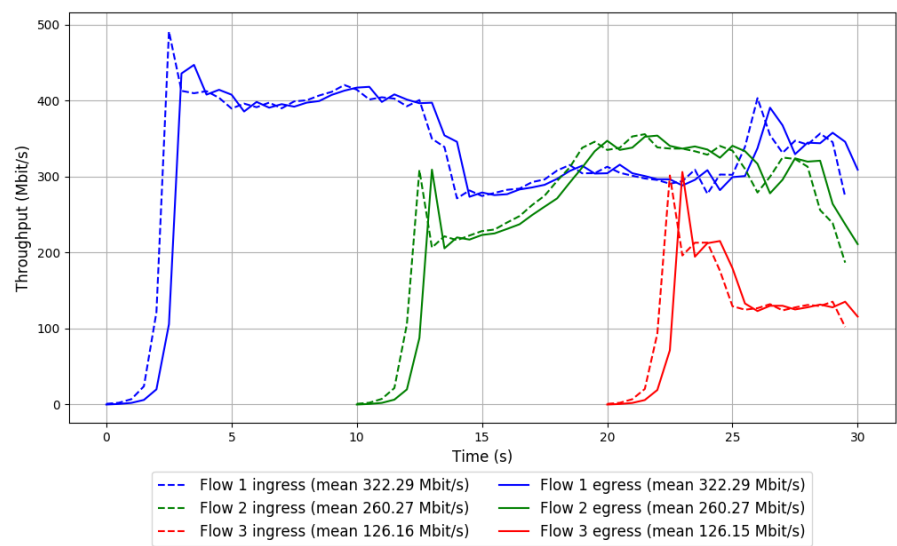
-- Flow 3:

Average throughput: 126.15 Mbit/s

95th percentile per-packet one-way delay: 52.836 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-09-26 05:54:58

End at: 2018-09-26 05:55:28

Local clock offset: -0.265 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-09-26 10:22:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 438.23 Mbit/s

95th percentile per-packet one-way delay: 53.538 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 281.51 Mbit/s

95th percentile per-packet one-way delay: 53.859 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 190.69 Mbit/s

95th percentile per-packet one-way delay: 50.691 ms

Loss rate: 0.00%

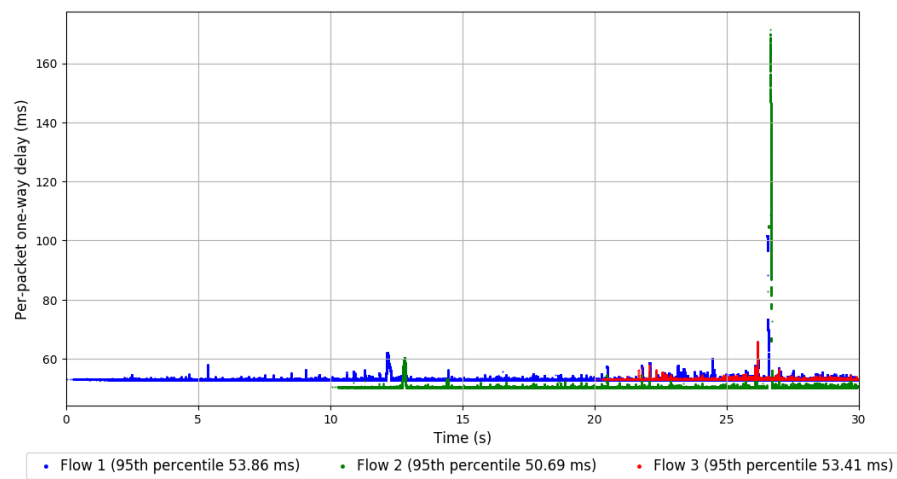
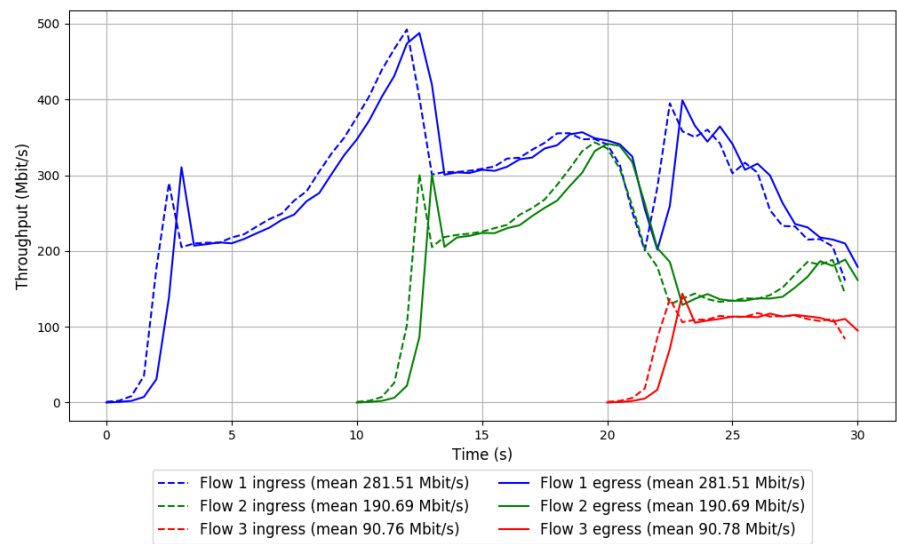
-- Flow 3:

Average throughput: 90.78 Mbit/s

95th percentile per-packet one-way delay: 53.405 ms

Loss rate: 0.02%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-09-26 06:28:08

End at: 2018-09-26 06:28:38

Local clock offset: -0.266 ms

Remote clock offset: 0.397 ms

Below is generated by plot.py at 2018-09-26 10:22:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 468.06 Mbit/s

95th percentile per-packet one-way delay: 51.452 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 277.68 Mbit/s

95th percentile per-packet one-way delay: 50.758 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 270.88 Mbit/s

95th percentile per-packet one-way delay: 51.078 ms

Loss rate: 0.01%

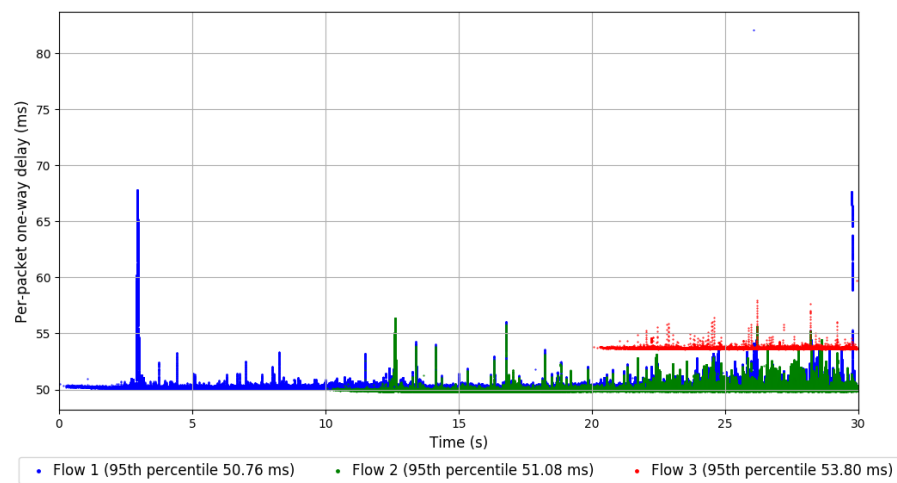
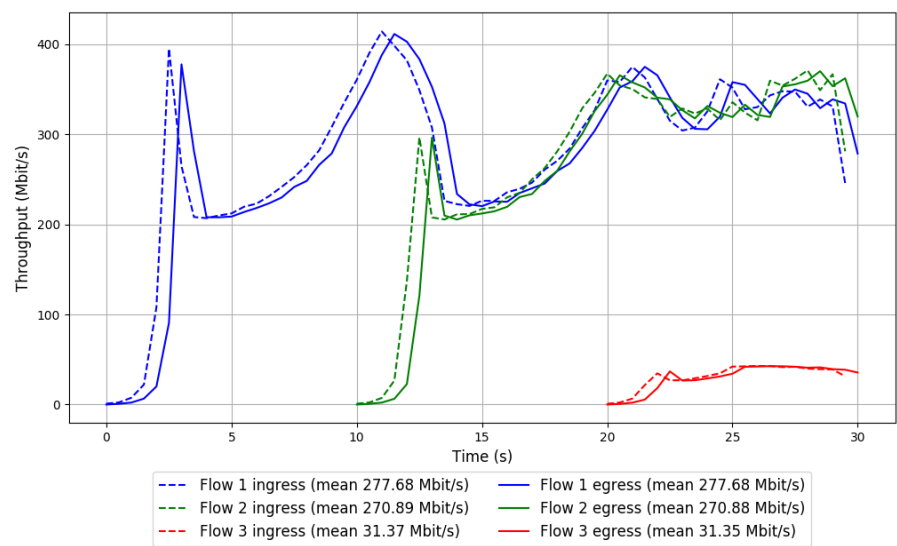
-- Flow 3:

Average throughput: 31.35 Mbit/s

95th percentile per-packet one-way delay: 53.805 ms

Loss rate: 0.03%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-09-26 07:01:18

End at: 2018-09-26 07:01:48

Local clock offset: -0.407 ms

Remote clock offset: 0.662 ms

Below is generated by plot.py at 2018-09-26 10:22:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 472.54 Mbit/s

95th percentile per-packet one-way delay: 55.794 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 276.34 Mbit/s

95th percentile per-packet one-way delay: 70.826 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 206.26 Mbit/s

95th percentile per-packet one-way delay: 54.483 ms

Loss rate: 0.02%

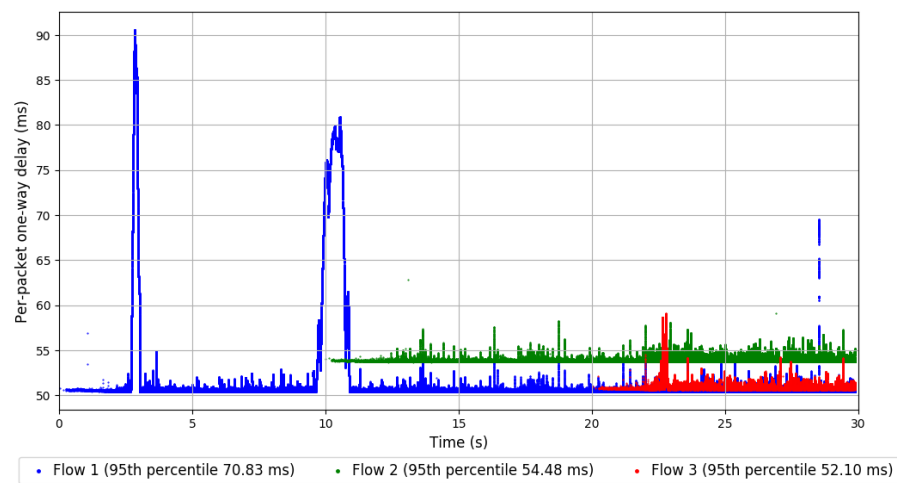
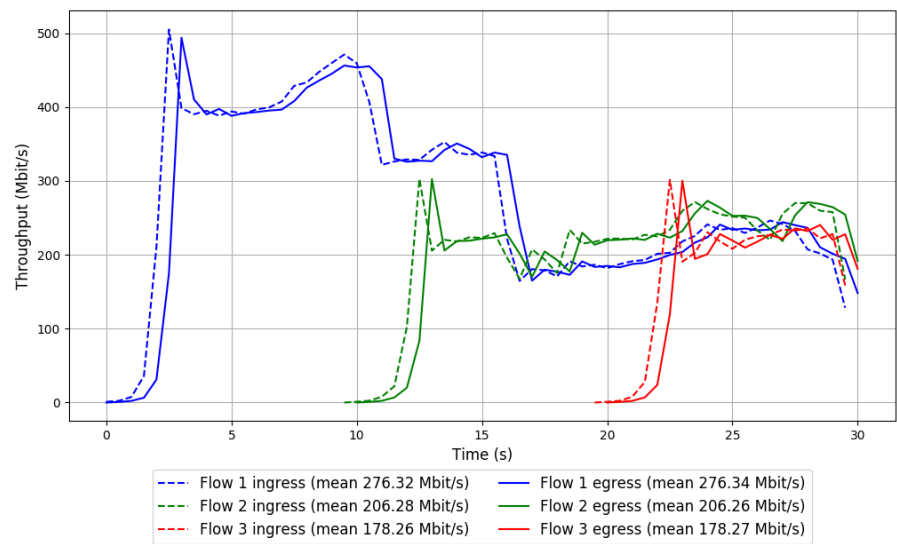
-- Flow 3:

Average throughput: 178.27 Mbit/s

95th percentile per-packet one-way delay: 52.102 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-09-26 04:46:14

End at: 2018-09-26 04:46:44

Local clock offset: -0.168 ms

Remote clock offset: 0.072 ms

Below is generated by plot.py at 2018-09-26 10:22:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.79 Mbit/s

95th percentile per-packet one-way delay: 53.683 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 53.443 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 53.726 ms

Loss rate: 0.00%

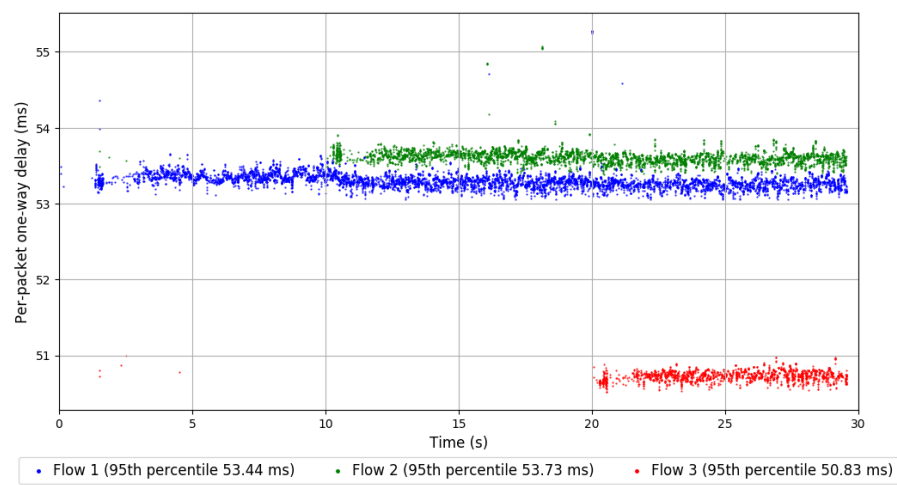
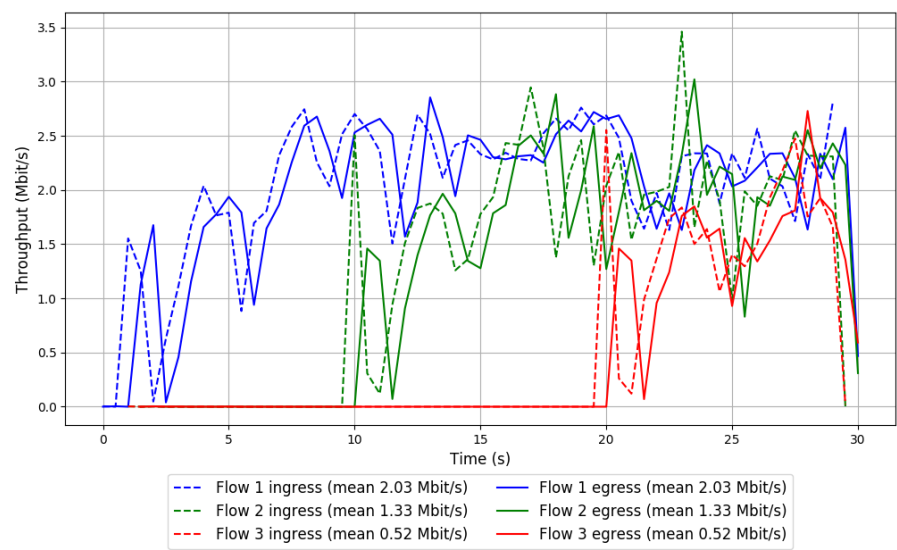
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 50.832 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-09-26 05:19:03

End at: 2018-09-26 05:19:33

Local clock offset: -0.27 ms

Remote clock offset: 0.201 ms

Below is generated by plot.py at 2018-09-26 10:22:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.48 Mbit/s

95th percentile per-packet one-way delay: 53.928 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 53.954 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.14 Mbit/s

95th percentile per-packet one-way delay: 53.437 ms

Loss rate: 0.00%

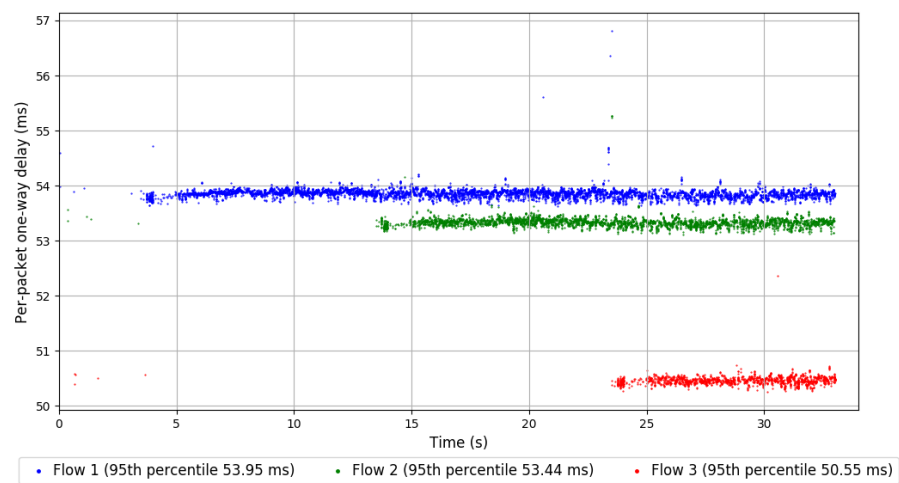
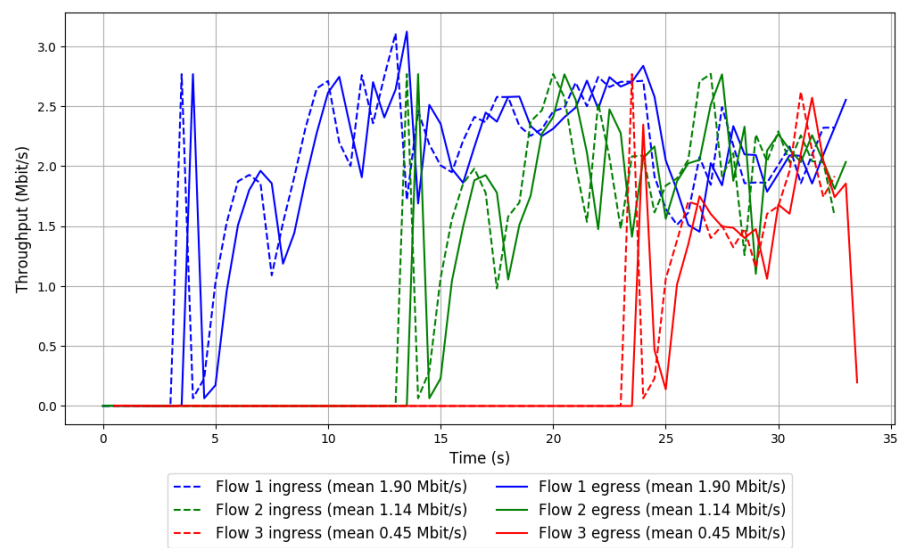
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 50.552 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

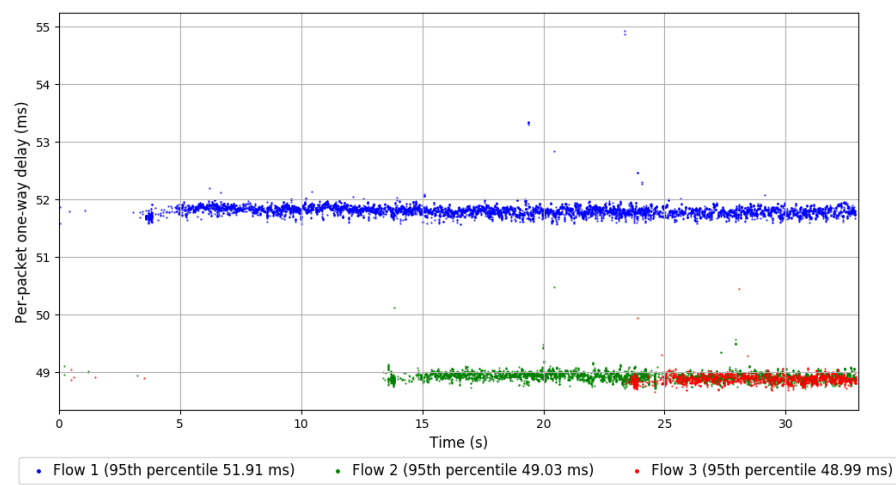
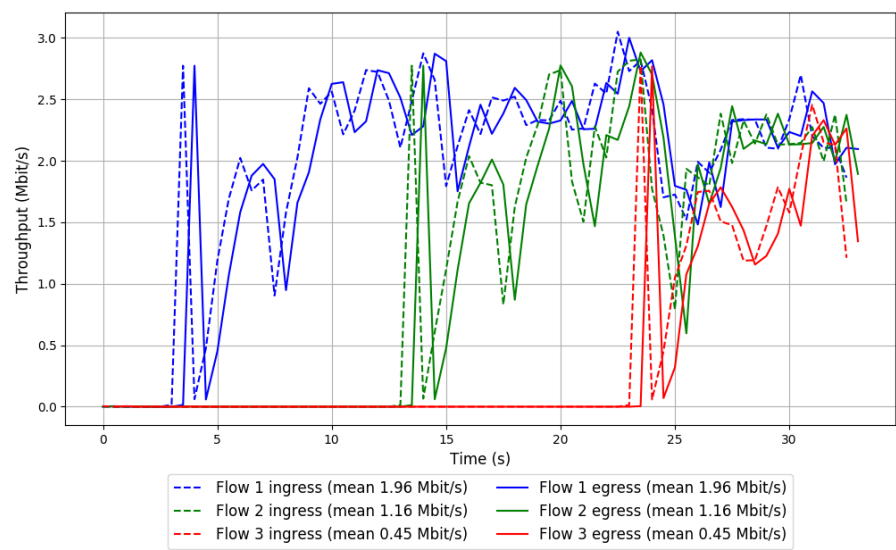


Run 3: Statistics of WebRTC media

Start at: 2018-09-26 05:51:58
End at: 2018-09-26 05:52:28
Local clock offset: -0.042 ms
Remote clock offset: -1.002 ms

Below is generated by plot.py at 2018-09-26 10:22:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.55 Mbit/s
95th percentile per-packet one-way delay: 51.893 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 51.913 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.16 Mbit/s
95th percentile per-packet one-way delay: 49.031 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 48.987 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-09-26 06:25:09

End at: 2018-09-26 06:25:39

Local clock offset: -0.298 ms

Remote clock offset: 0.331 ms

Below is generated by plot.py at 2018-09-26 10:22:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.39 Mbit/s

95th percentile per-packet one-way delay: 53.857 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 53.886 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.13 Mbit/s

95th percentile per-packet one-way delay: 53.343 ms

Loss rate: 0.00%

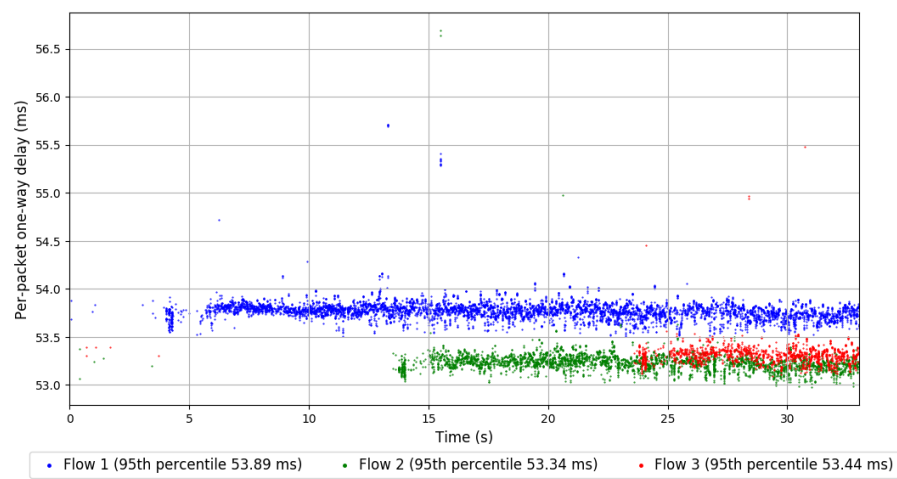
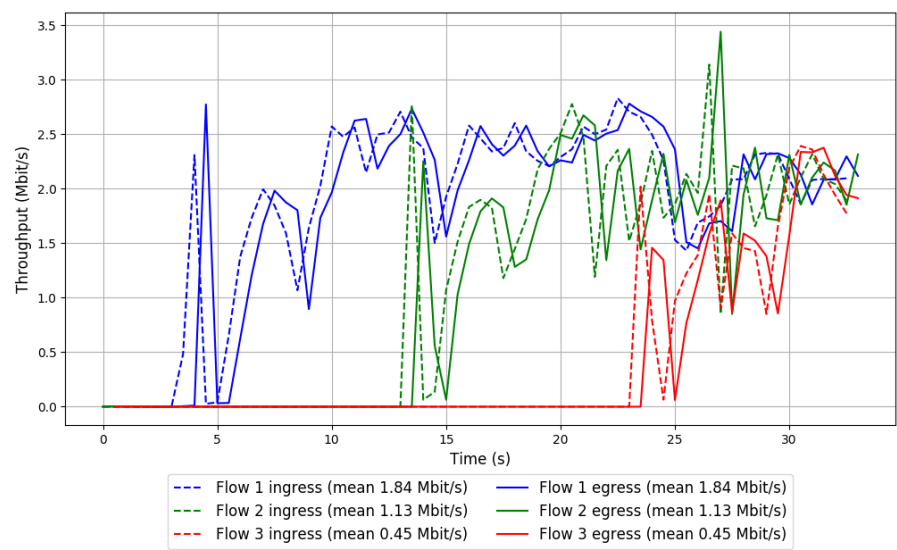
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 53.437 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-09-26 06:58:20

End at: 2018-09-26 06:58:50

Local clock offset: -0.232 ms

Remote clock offset: 0.48 ms

Below is generated by plot.py at 2018-09-26 10:22:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.93 Mbit/s

95th percentile per-packet one-way delay: 53.663 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 53.678 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 53.652 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 53.338 ms

Loss rate: 0.19%

Run 5: Report of WebRTC media — Data Link

