

Pantheon Report

Generated at 2018-06-05 10:54:13 (UTC).

Data path: AWS India 1 Ethernet (*local*) → India ppp0 ppp0 (*remote*).

Repeated the test of 16 congestion control schemes 3 times.

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

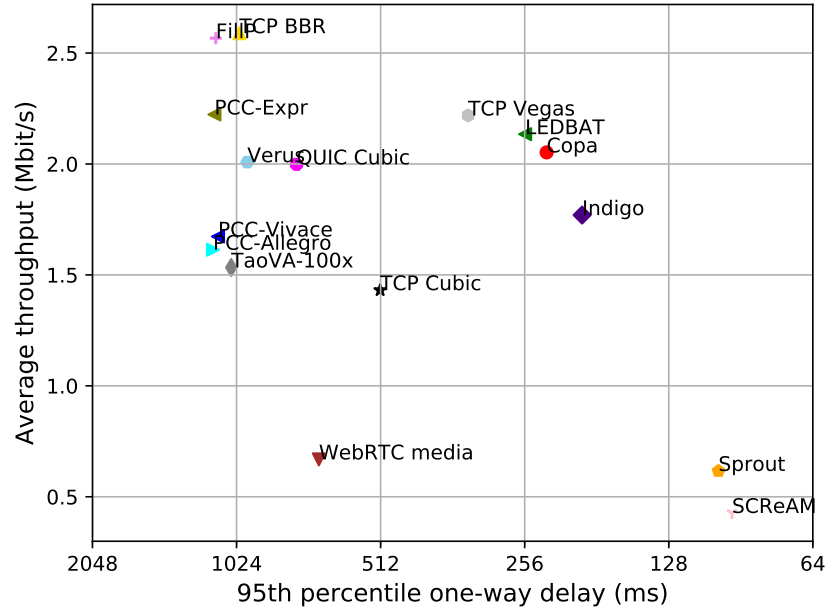
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

NTP offsets were measured against **nets.org.sg** and have been applied to correct the timestamps in logs.

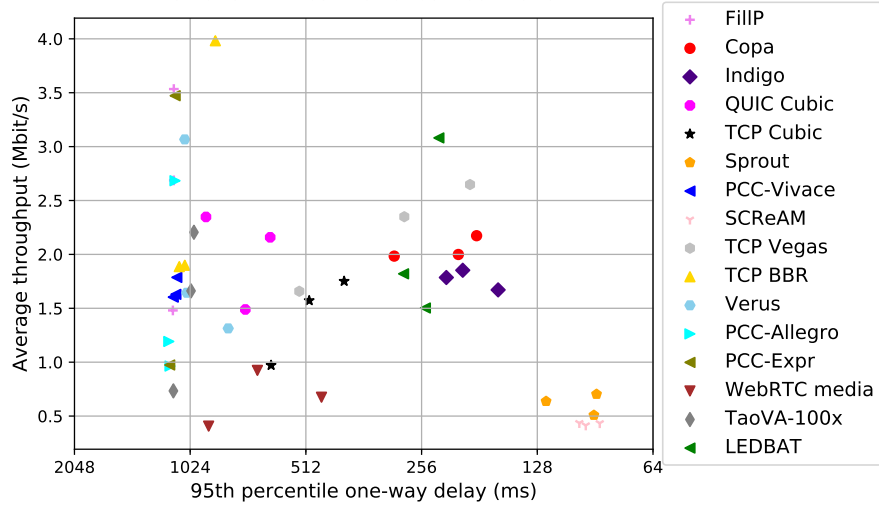
Git summary:

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

test from AWS India 1 to India ppp0, 3 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS India 1 to India ppp0, 3 runs of 30s each per scheme
 3 flows with 10s interval between flows



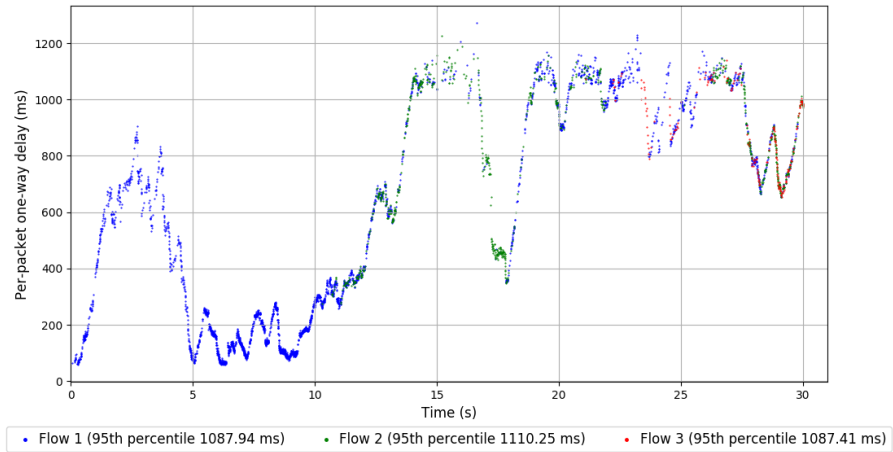
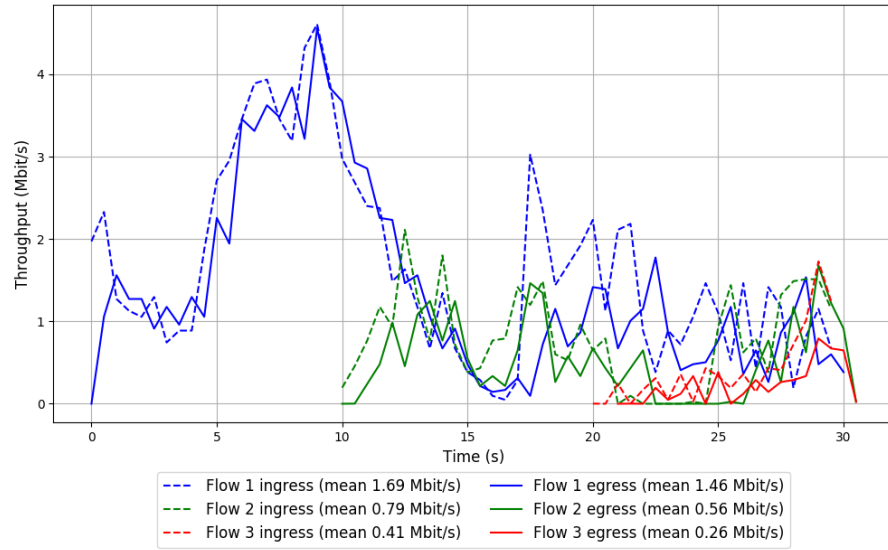
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	3	1.96	0.64	0.67	998.21	1033.19	871.17	6.92	13.82	20.91
Copa	3	1.26	0.89	0.60	214.81	235.95	266.45	0.45	0.85	1.81
TCP Cubic	3	0.78	0.60	0.77	462.53	556.97	549.23	1.63	3.07	3.59
FillP	3	1.80	0.86	0.78	1126.76	1130.35	1141.95	66.19	42.13	65.34
Indigo	3	0.96	0.68	1.10	173.10	188.25	274.15	0.10	0.06	0.48
LEDBAT	3	1.25	0.97	0.76	248.02	258.81	280.86	0.50	0.90	1.62
PCC-Allegro	3	1.09	0.64	0.37	1131.11	1132.89	1147.99	56.76	77.09	87.21
PCC-Expr	2	1.59	1.00	0.00	1137.32	1141.67	1082.09	73.43	86.08	92.31
QUIC Cubic	3	1.28	0.70	0.83	742.09	770.77	943.99	2.16	4.27	6.70
SCReAM	3	0.22	0.22	0.21	95.10	91.50	103.29	0.11	0.17	0.30
Sprout	3	0.31	0.31	0.30	94.77	96.33	112.74	0.30	0.07	0.13
TaoVA-100x	3	0.89	0.75	0.49	1008.18	1017.38	1114.44	24.09	10.90	51.20
TCP Vegas	3	1.19	0.96	1.18	244.21	273.68	500.02	0.24	0.43	1.08
Verus	3	1.40	0.50	0.91	914.22	889.78	974.71	12.26	8.12	12.34
PCC-Vivace	3	1.01	0.76	0.59	1109.55	1129.49	1126.48	27.93	46.87	54.47
WebRTC media	3	0.38	0.17	0.12	687.06	723.98	669.76	2.53	3.75	6.65

Run 1: Statistics of TCP BBR

Start at: 2018-06-05 10:03:56
End at: 2018-06-05 10:04:26
Local clock offset: -1.355 ms
Remote clock offset: 12.443 ms

Below is generated by plot.py at 2018-06-05 10:53:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.89 Mbit/s
95th percentile per-packet one-way delay: 1092.938 ms
Loss rate: 19.56%
-- Flow 1:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 1087.945 ms
Loss rate: 14.31%
-- Flow 2:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 1110.249 ms
Loss rate: 30.31%
-- Flow 3:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 1087.414 ms
Loss rate: 42.95%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-06-05 10:21:44

End at: 2018-06-05 10:22:14

Local clock offset: -0.26 ms

Remote clock offset: 6.869 ms

Below is generated by plot.py at 2018-06-05 10:53:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 1057.622 ms

Loss rate: 7.14%

-- Flow 1:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 1020.608 ms

Loss rate: 4.55%

-- Flow 2:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 1054.299 ms

Loss rate: 7.81%

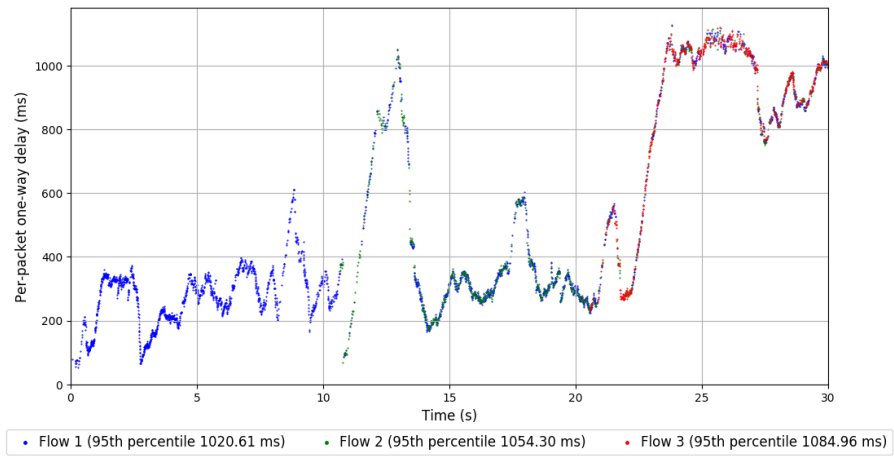
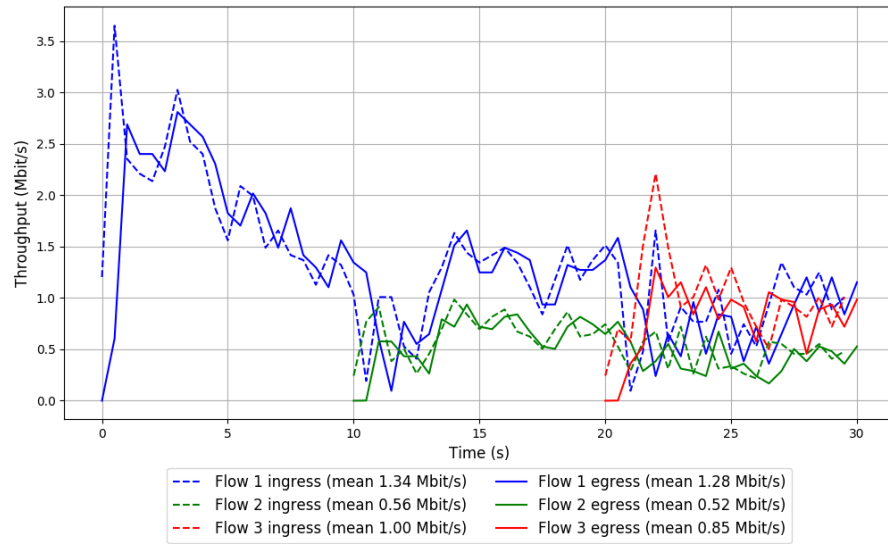
-- Flow 3:

Average throughput: 0.85 Mbit/s

95th percentile per-packet one-way delay: 1084.964 ms

Loss rate: 16.78%

Run 2: Report of TCP BBR — Data Link

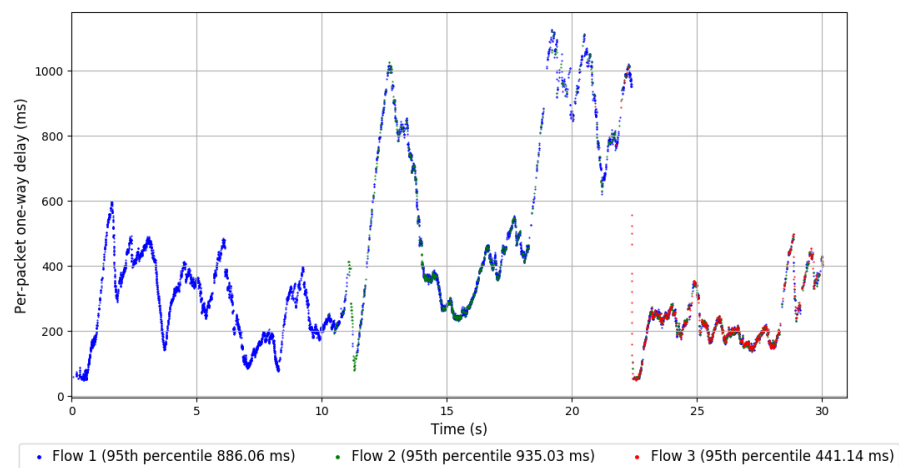
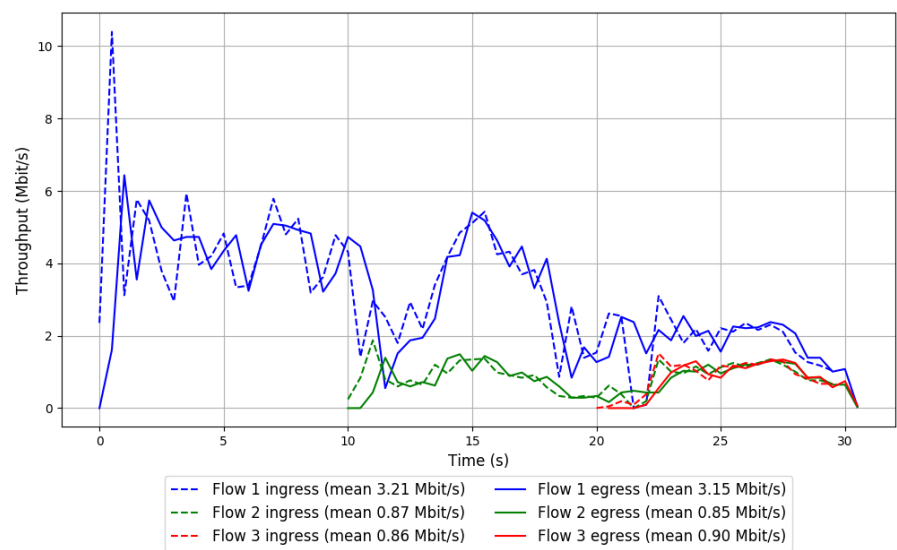


Run 3: Statistics of TCP BBR

Start at: 2018-06-05 10:39:24
End at: 2018-06-05 10:39:54
Local clock offset: -0.926 ms
Remote clock offset: -2.843 ms

Below is generated by plot.py at 2018-06-05 10:53:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.98 Mbit/s
95th percentile per-packet one-way delay: 880.613 ms
Loss rate: 2.18%
-- Flow 1:
Average throughput: 3.15 Mbit/s
95th percentile per-packet one-way delay: 886.064 ms
Loss rate: 1.90%
-- Flow 2:
Average throughput: 0.85 Mbit/s
95th percentile per-packet one-way delay: 935.035 ms
Loss rate: 3.33%
-- Flow 3:
Average throughput: 0.90 Mbit/s
95th percentile per-packet one-way delay: 441.145 ms
Loss rate: 2.99%

Run 3: Report of TCP BBR — Data Link

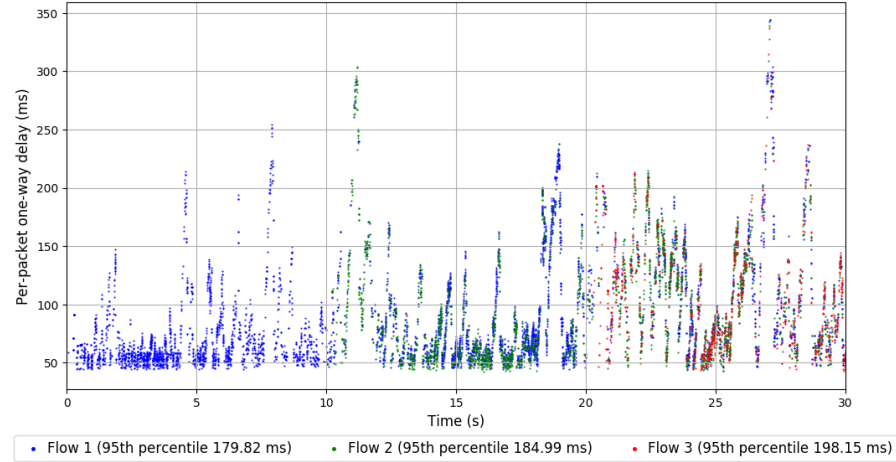
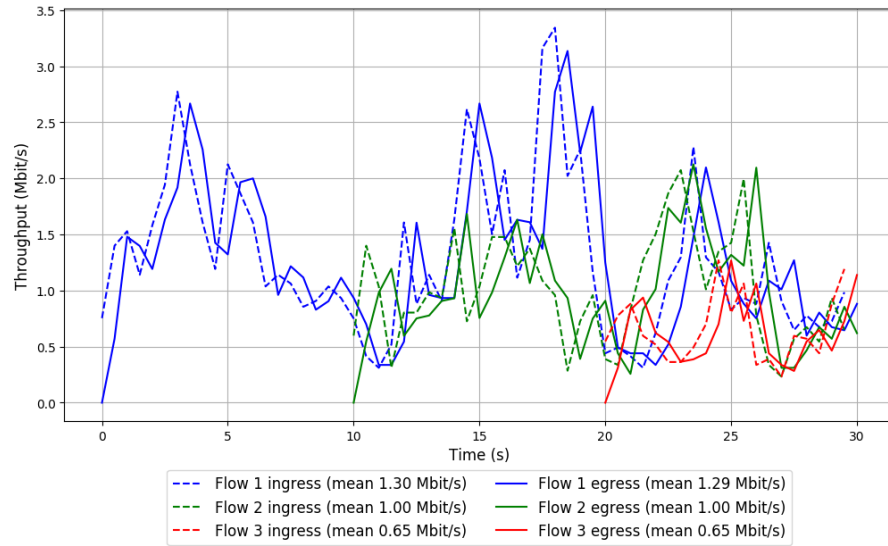


Run 1: Statistics of Copa

Start at: 2018-06-05 10:06:09
End at: 2018-06-05 10:06:39
Local clock offset: -3.772 ms
Remote clock offset: -4.049 ms

Below is generated by plot.py at 2018-06-05 10:53:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 184.128 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 1.29 Mbit/s
95th percentile per-packet one-way delay: 179.822 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 1.00 Mbit/s
95th percentile per-packet one-way delay: 184.993 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 198.150 ms
Loss rate: 1.81%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-06-05 10:23:55

End at: 2018-06-05 10:24:25

Local clock offset: -3.196 ms

Remote clock offset: 9.99 ms

Below is generated by plot.py at 2018-06-05 10:53:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 301.611 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 1.23 Mbit/s

95th percentile per-packet one-way delay: 274.516 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 0.84 Mbit/s

95th percentile per-packet one-way delay: 300.219 ms

Loss rate: 1.54%

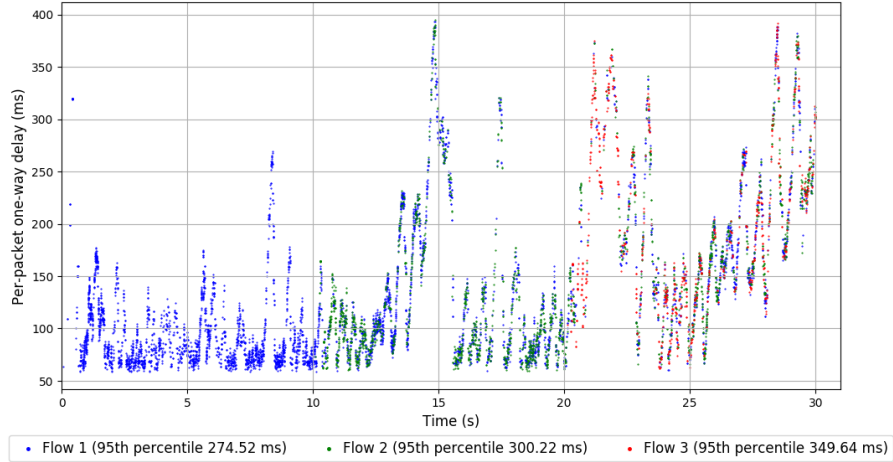
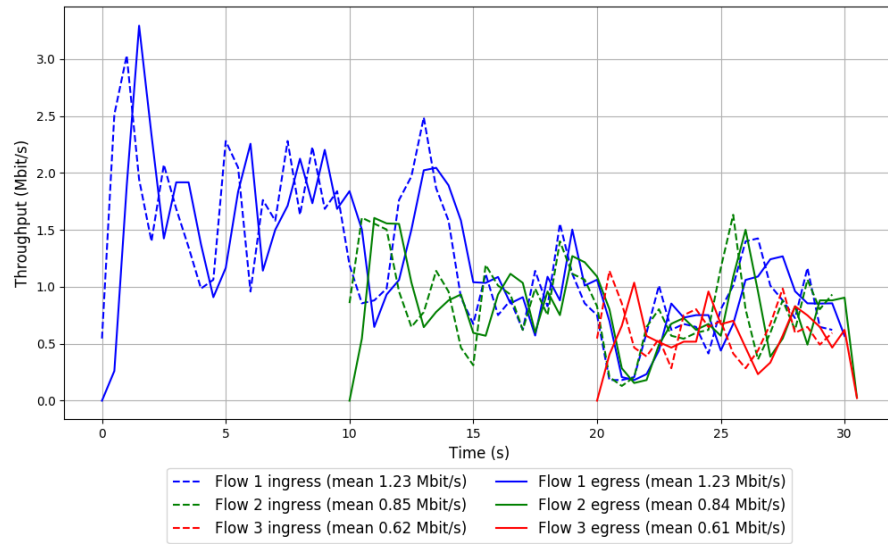
-- Flow 3:

Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 349.637 ms

Loss rate: 2.42%

Run 2: Report of Copa — Data Link

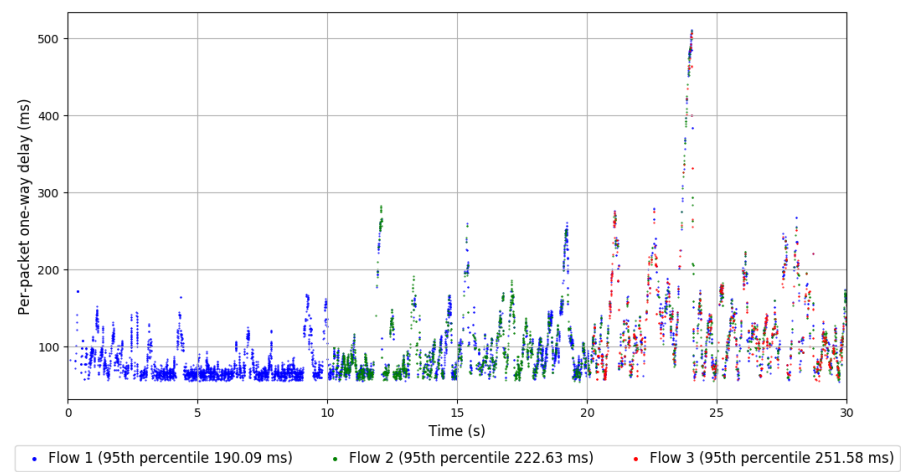
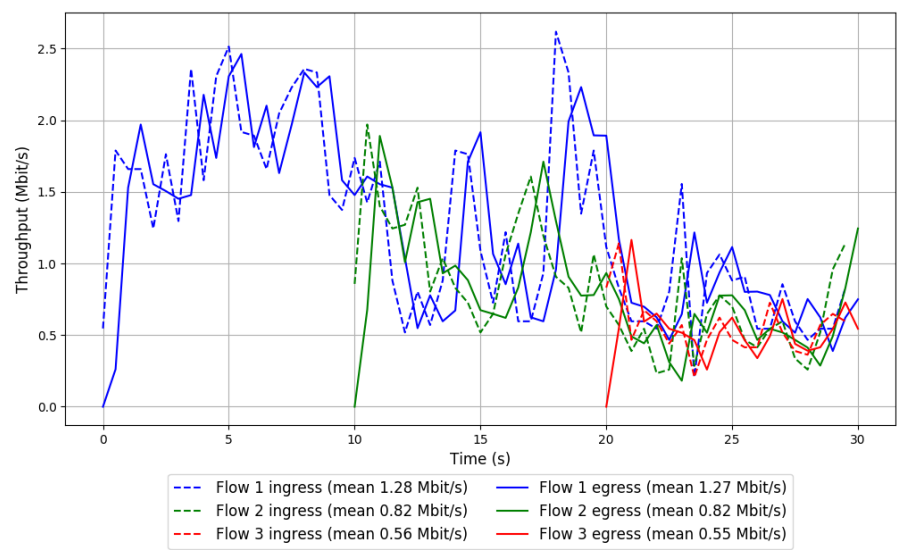


Run 3: Statistics of Copa

Start at: 2018-06-05 10:41:37
End at: 2018-06-05 10:42:07
Local clock offset: -2.143 ms
Remote clock offset: -0.344 ms

Below is generated by plot.py at 2018-06-05 10:53:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 205.381 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 1.27 Mbit/s
95th percentile per-packet one-way delay: 190.090 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 0.82 Mbit/s
95th percentile per-packet one-way delay: 222.629 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 251.577 ms
Loss rate: 1.20%

Run 3: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-06-05 10:11:43

End at: 2018-06-05 10:12:13

Local clock offset: -1.653 ms

Remote clock offset: -2.54 ms

Below is generated by plot.py at 2018-06-05 10:53:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 407.099 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 0.99 Mbit/s

95th percentile per-packet one-way delay: 337.949 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 0.74 Mbit/s

95th percentile per-packet one-way delay: 427.065 ms

Loss rate: 2.07%

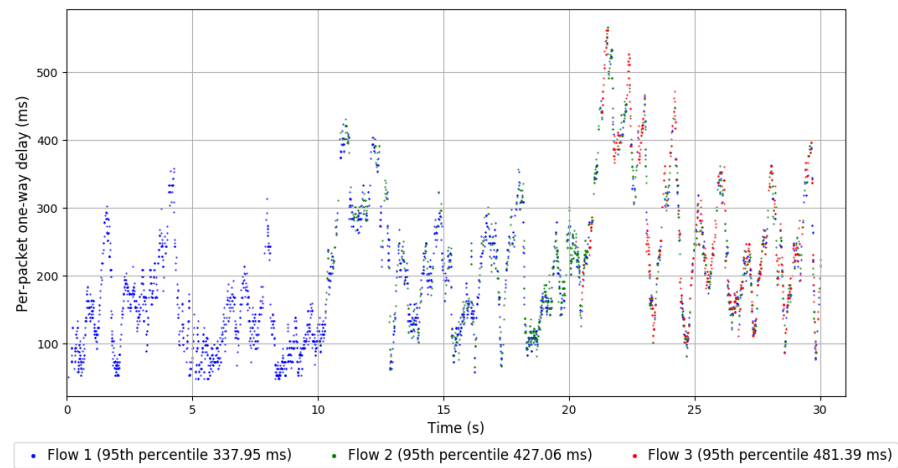
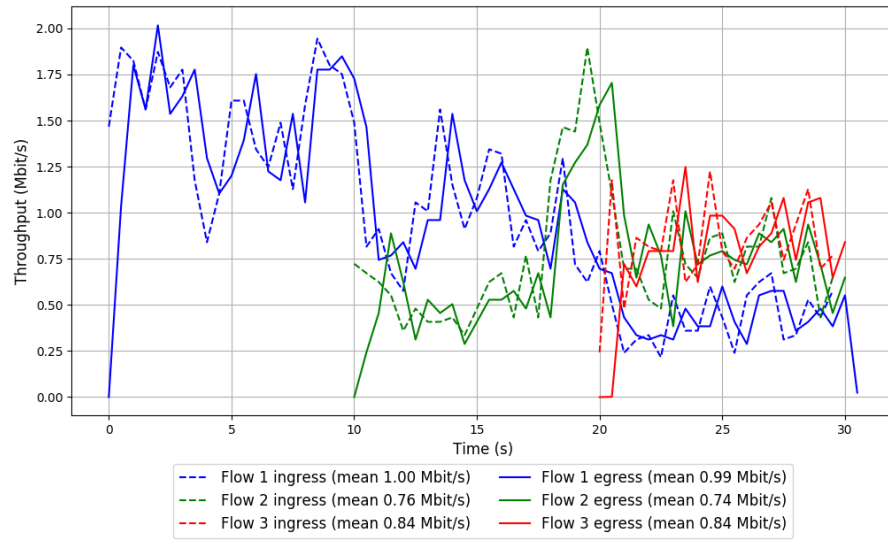
-- Flow 3:

Average throughput: 0.84 Mbit/s

95th percentile per-packet one-way delay: 481.386 ms

Loss rate: 2.73%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-06-05 10:29:24

End at: 2018-06-05 10:29:54

Local clock offset: 0.046 ms

Remote clock offset: 1.843 ms

Below is generated by plot.py at 2018-06-05 10:53:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 630.579 ms

Loss rate: 3.00%

-- Flow 1:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 545.643 ms

Loss rate: 1.72%

-- Flow 2:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 756.168 ms

Loss rate: 4.95%

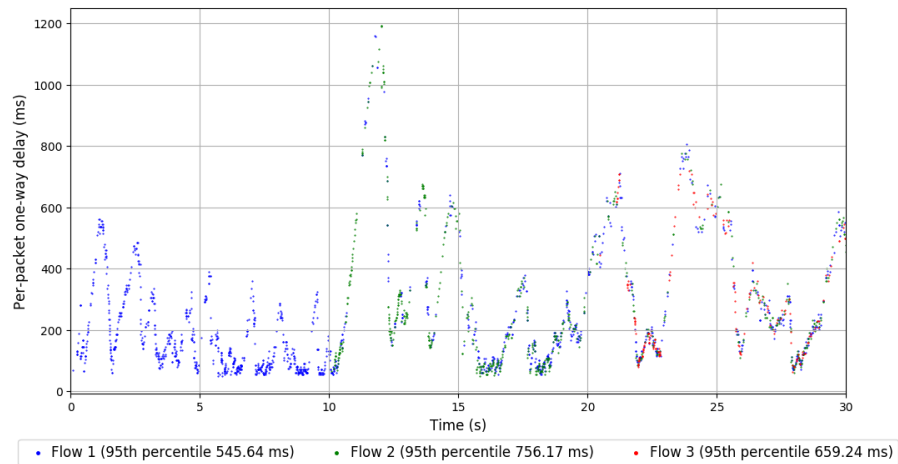
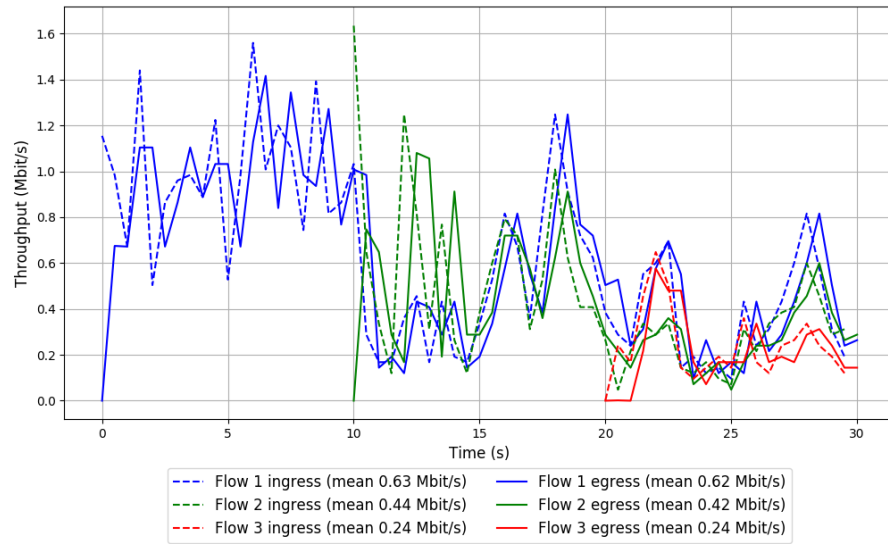
-- Flow 3:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 659.244 ms

Loss rate: 6.03%

Run 2: Report of TCP Cubic — Data Link

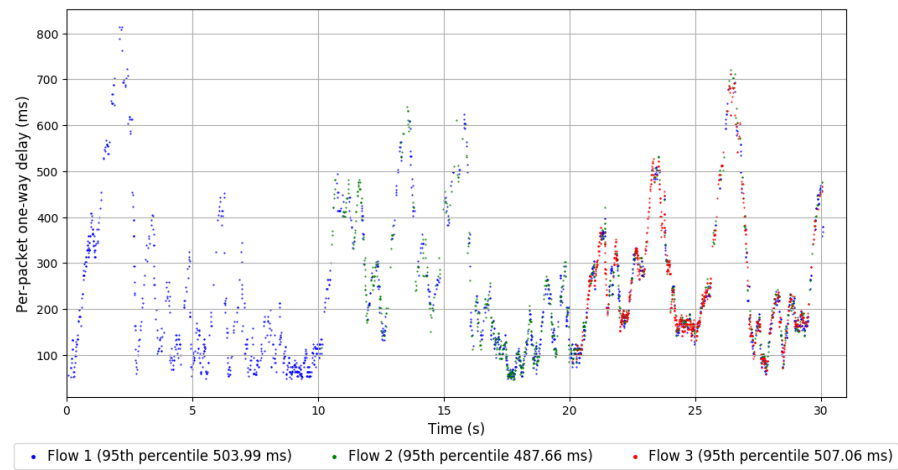
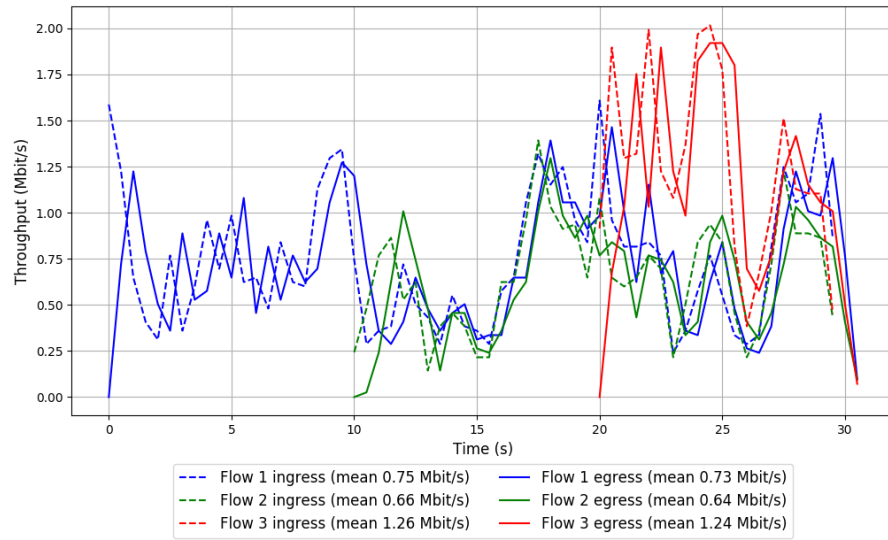


Run 3: Statistics of TCP Cubic

Start at: 2018-06-05 10:47:18
End at: 2018-06-05 10:47:48
Local clock offset: 3.043 ms
Remote clock offset: -3.869 ms

Below is generated by plot.py at 2018-06-05 10:53:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.57 Mbit/s
95th percentile per-packet one-way delay: 501.885 ms
Loss rate: 2.17%
-- Flow 1:
Average throughput: 0.73 Mbit/s
95th percentile per-packet one-way delay: 503.988 ms
Loss rate: 2.23%
-- Flow 2:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 487.664 ms
Loss rate: 2.19%
-- Flow 3:
Average throughput: 1.24 Mbit/s
95th percentile per-packet one-way delay: 507.055 ms
Loss rate: 2.01%

Run 3: Report of TCP Cubic — Data Link

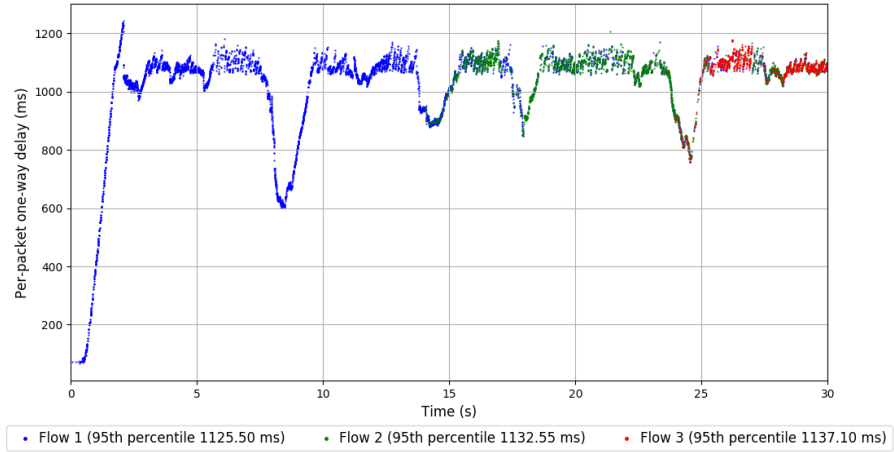
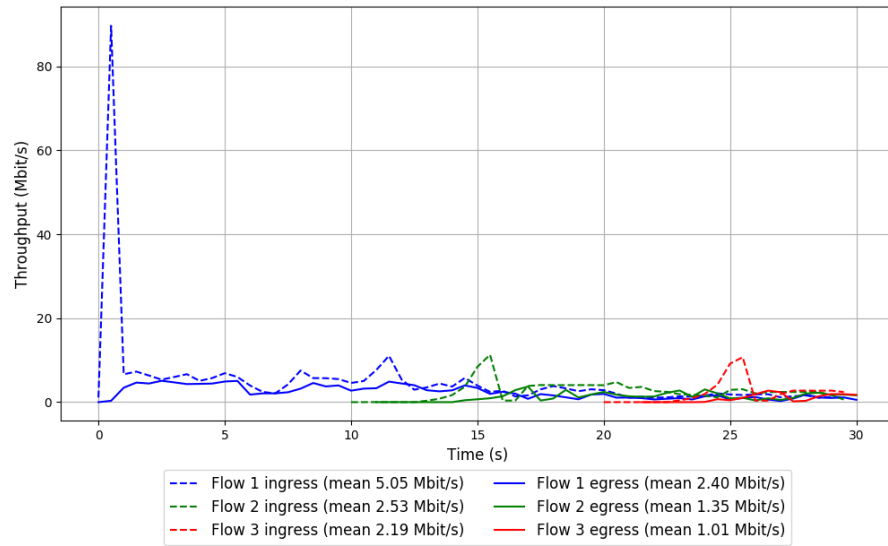


Run 1: Statistics of FillP

Start at: 2018-06-05 10:00:37
End at: 2018-06-05 10:01:07
Local clock offset: -3.326 ms
Remote clock offset: 16.743 ms

Below is generated by plot.py at 2018-06-05 10:53:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.53 Mbit/s
95th percentile per-packet one-way delay: 1129.378 ms
Loss rate: 52.71%
-- Flow 1:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 1125.499 ms
Loss rate: 52.56%
-- Flow 2:
Average throughput: 1.35 Mbit/s
95th percentile per-packet one-way delay: 1132.550 ms
Loss rate: 49.38%
-- Flow 3:
Average throughput: 1.01 Mbit/s
95th percentile per-packet one-way delay: 1137.102 ms
Loss rate: 61.55%

Run 1: Report of FillP — Data Link

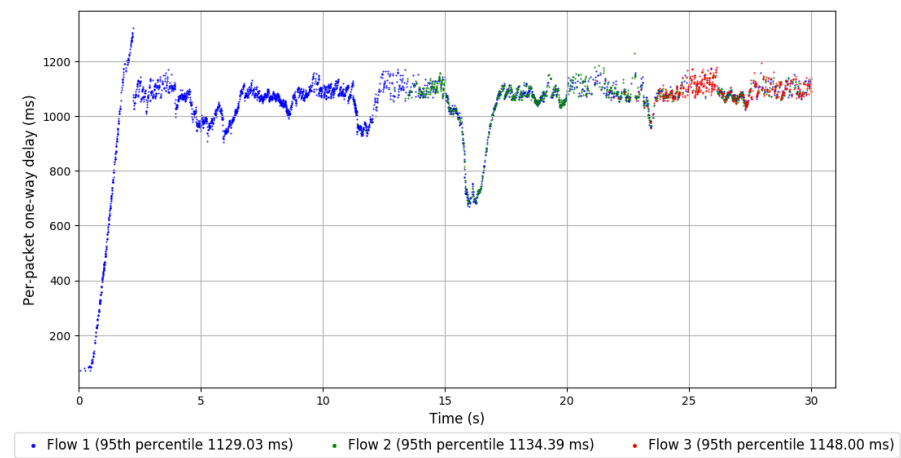
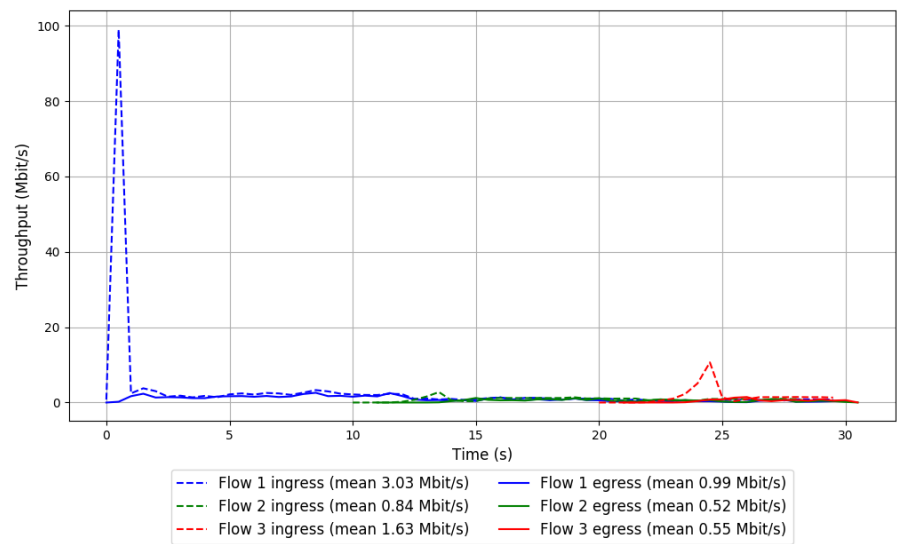


Run 2: Statistics of FillP

Start at: 2018-06-05 10:18:23
End at: 2018-06-05 10:18:53
Local clock offset: -0.921 ms
Remote clock offset: 17.127 ms

Below is generated by plot.py at 2018-06-05 10:53:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: 1135.841 ms
Loss rate: 64.12%
-- Flow 1:
Average throughput: 0.99 Mbit/s
95th percentile per-packet one-way delay: 1129.028 ms
Loss rate: 67.36%
-- Flow 2:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 1134.388 ms
Loss rate: 40.87%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 1147.997 ms
Loss rate: 70.03%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-06-05 10:36:04

End at: 2018-06-05 10:36:34

Local clock offset: -2.734 ms

Remote clock offset: 8.465 ms

Below is generated by plot.py at 2018-06-05 10:53:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.69 Mbit/s

95th percentile per-packet one-way delay: 1129.428 ms

Loss rate: 74.98%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 1125.765 ms

Loss rate: 78.64%

-- Flow 2:

Average throughput: 0.72 Mbit/s

95th percentile per-packet one-way delay: 1124.105 ms

Loss rate: 36.14%

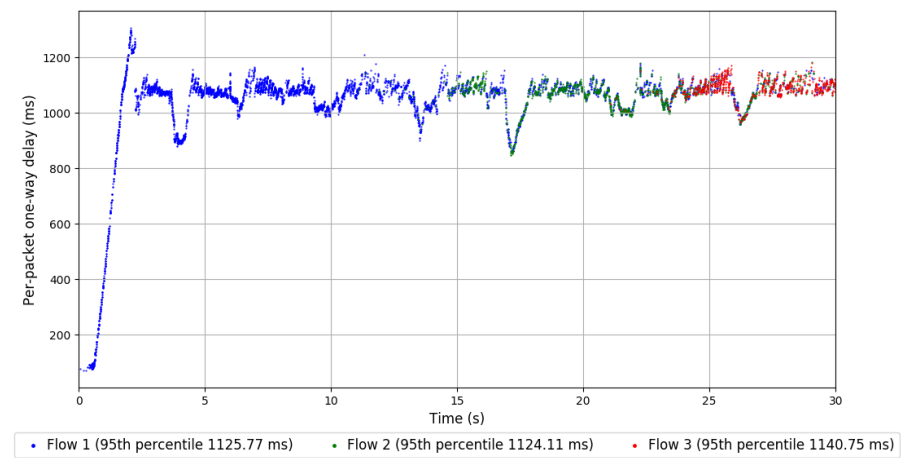
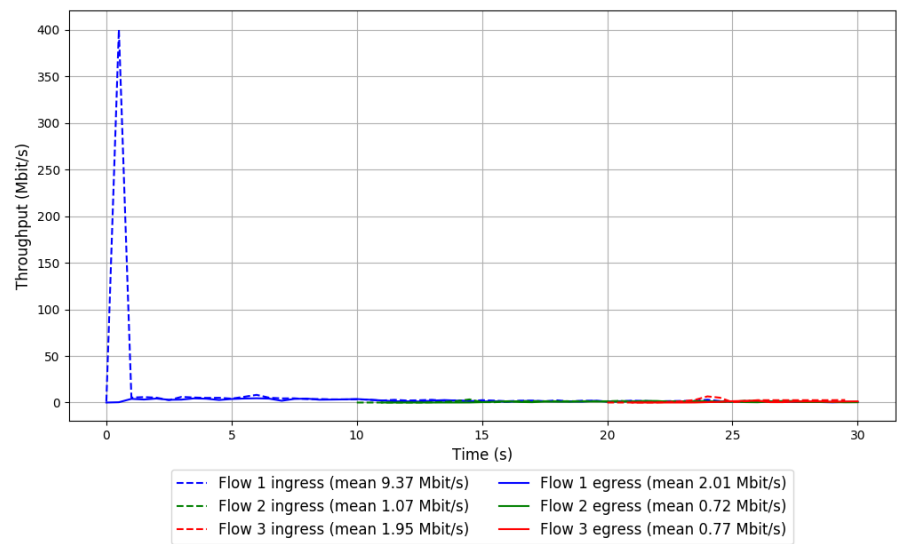
-- Flow 3:

Average throughput: 0.77 Mbit/s

95th percentile per-packet one-way delay: 1140.746 ms

Loss rate: 64.44%

Run 3: Report of FillP — Data Link



Run 1: Statistics of Indigo

Start at: 2018-06-05 10:02:50

End at: 2018-06-05 10:03:20

Local clock offset: -2.41 ms

Remote clock offset: 4.957 ms

Below is generated by plot.py at 2018-06-05 10:53:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 200.064 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 0.94 Mbit/s

95th percentile per-packet one-way delay: 205.573 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 0.77 Mbit/s

95th percentile per-packet one-way delay: 200.474 ms

Loss rate: 0.08%

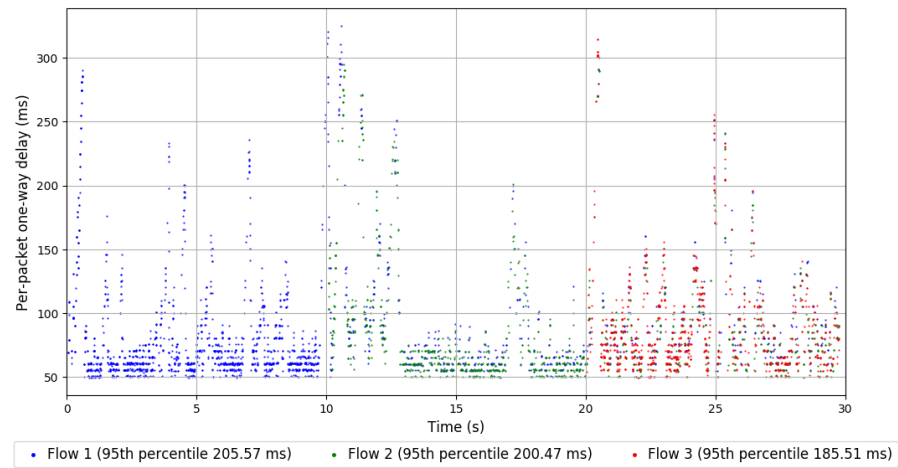
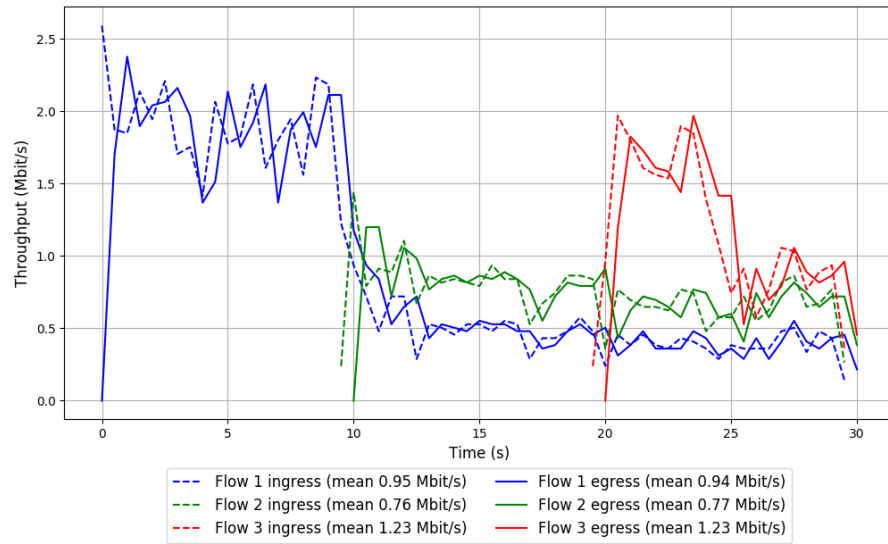
-- Flow 3:

Average throughput: 1.23 Mbit/s

95th percentile per-packet one-way delay: 185.510 ms

Loss rate: 0.30%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-06-05 10:20:34

End at: 2018-06-05 10:21:04

Local clock offset: 2.842 ms

Remote clock offset: 4.665 ms

Below is generated by plot.py at 2018-06-05 10:53:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.67 Mbit/s

95th percentile per-packet one-way delay: 161.846 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 1.03 Mbit/s

95th percentile per-packet one-way delay: 147.958 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 0.69 Mbit/s

95th percentile per-packet one-way delay: 162.798 ms

Loss rate: 0.00%

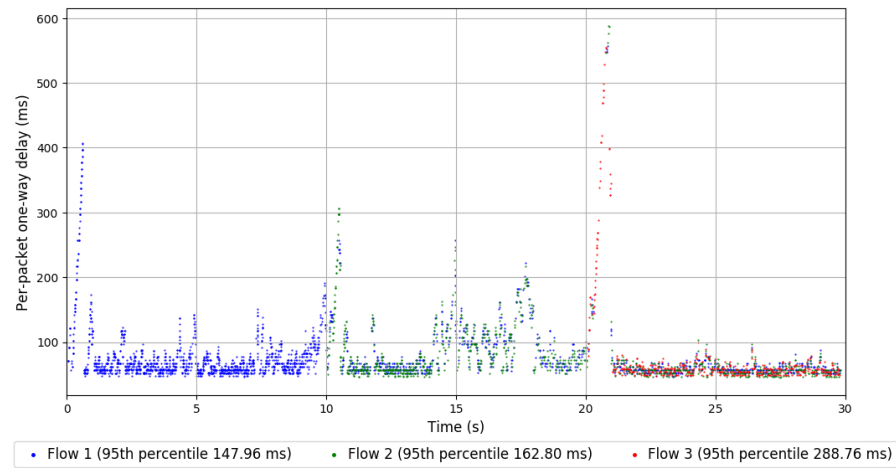
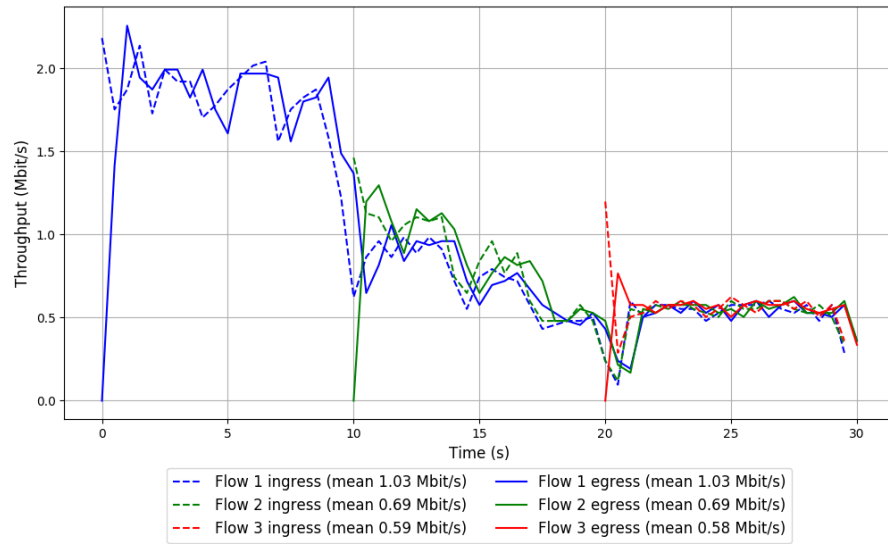
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 288.761 ms

Loss rate: 1.05%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-06-05 10:38:17

End at: 2018-06-05 10:38:47

Local clock offset: -0.47 ms

Remote clock offset: 9.678 ms

Below is generated by plot.py at 2018-06-05 10:53:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 220.722 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 0.91 Mbit/s

95th percentile per-packet one-way delay: 165.779 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 201.481 ms

Loss rate: 0.10%

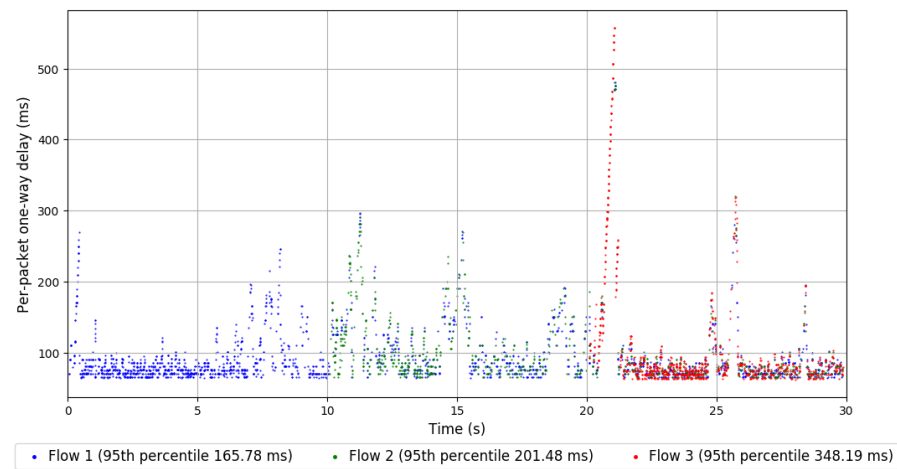
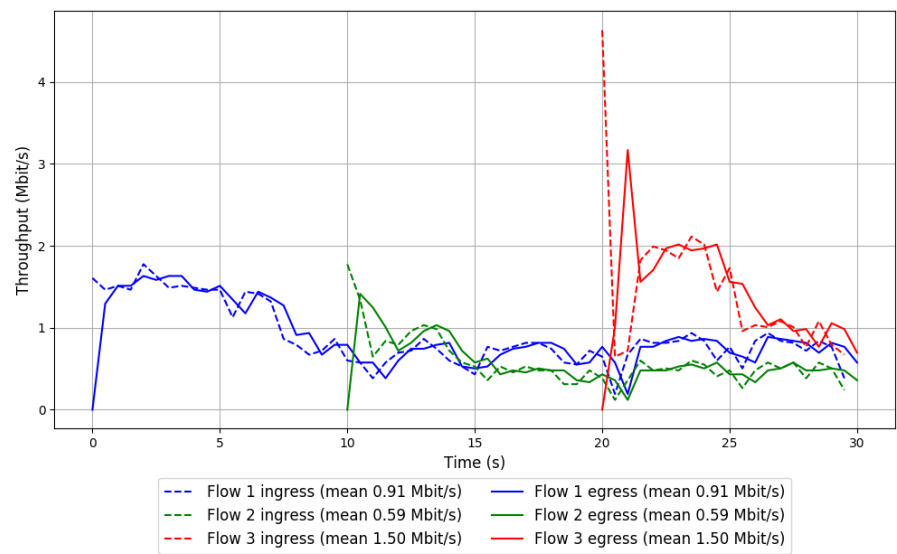
-- Flow 3:

Average throughput: 1.50 Mbit/s

95th percentile per-packet one-way delay: 348.192 ms

Loss rate: 0.08%

Run 3: Report of Indigo — Data Link

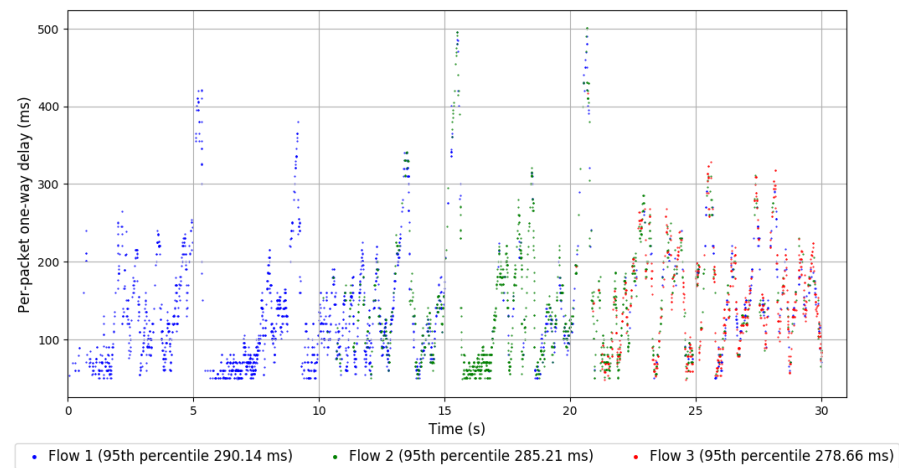
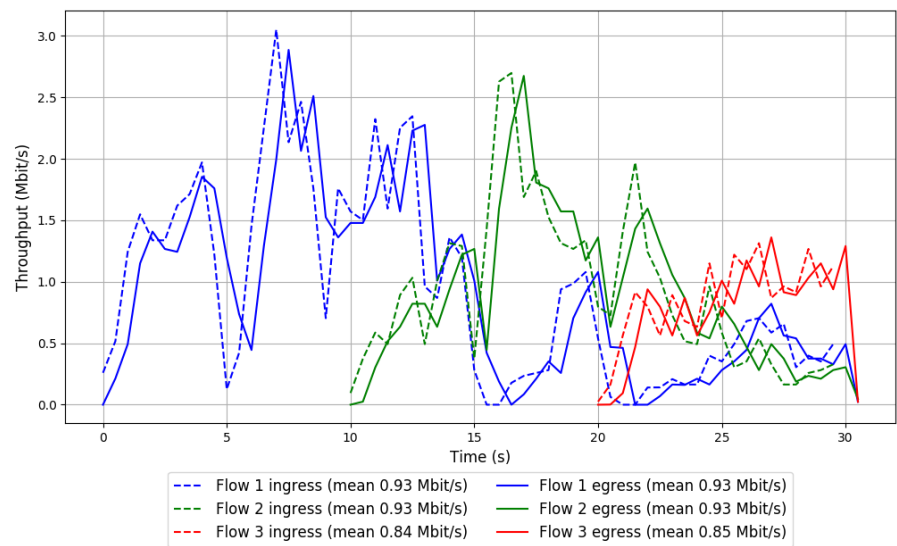


```
Run 1: Statistics of LEDBAT

Start at: 2018-06-05 10:09:31
End at: 2018-06-05 10:10:01
Local clock offset: 0.451 ms
Remote clock offset: 2.115 ms

# Below is generated by plot.py at 2018-06-05 10:53:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 285.211 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 290.145 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 285.211 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 0.85 Mbit/s
95th percentile per-packet one-way delay: 278.659 ms
Loss rate: 1.26%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-06-05 10:27:12

End at: 2018-06-05 10:27:42

Local clock offset: 3.065 ms

Remote clock offset: 1.826 ms

Below is generated by plot.py at 2018-06-05 10:53:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.50 Mbit/s

95th percentile per-packet one-way delay: 250.284 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 0.87 Mbit/s

95th percentile per-packet one-way delay: 245.408 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 0.78 Mbit/s

95th percentile per-packet one-way delay: 250.470 ms

Loss rate: 1.93%

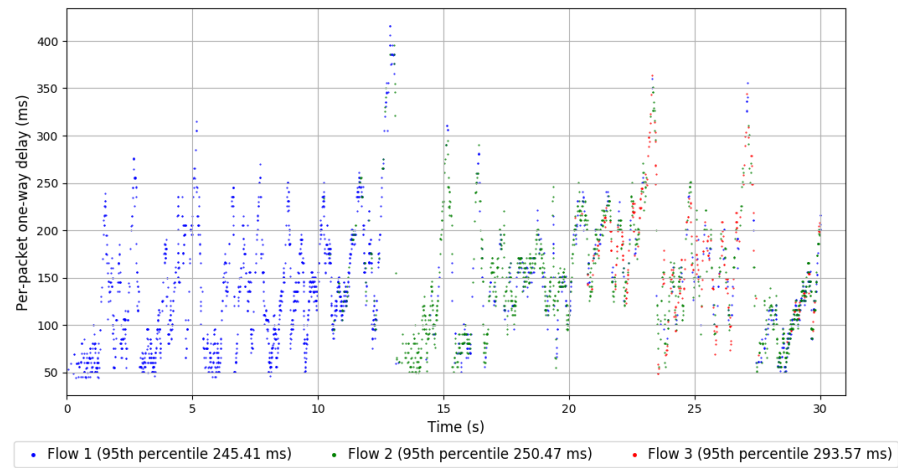
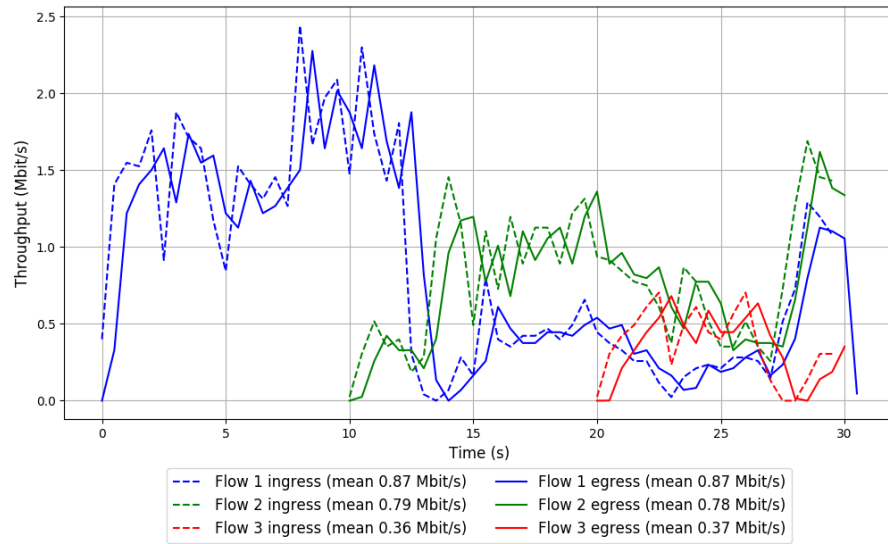
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 293.572 ms

Loss rate: 1.62%

Run 2: Report of LEDBAT — Data Link

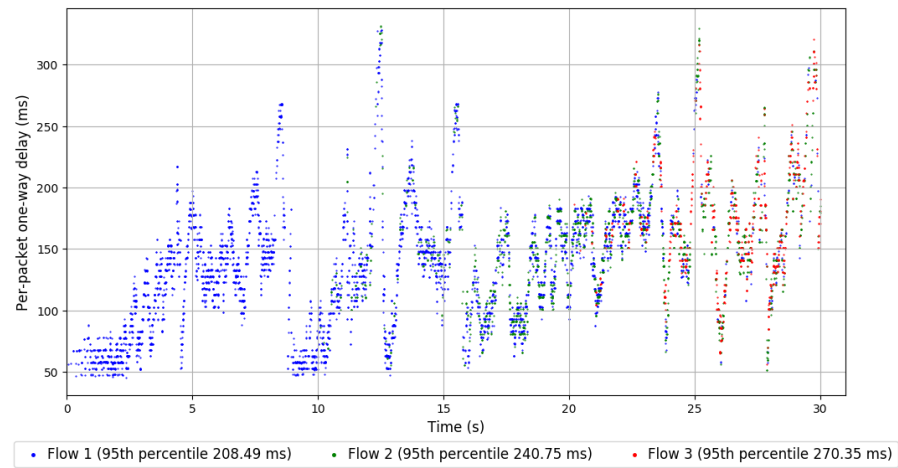
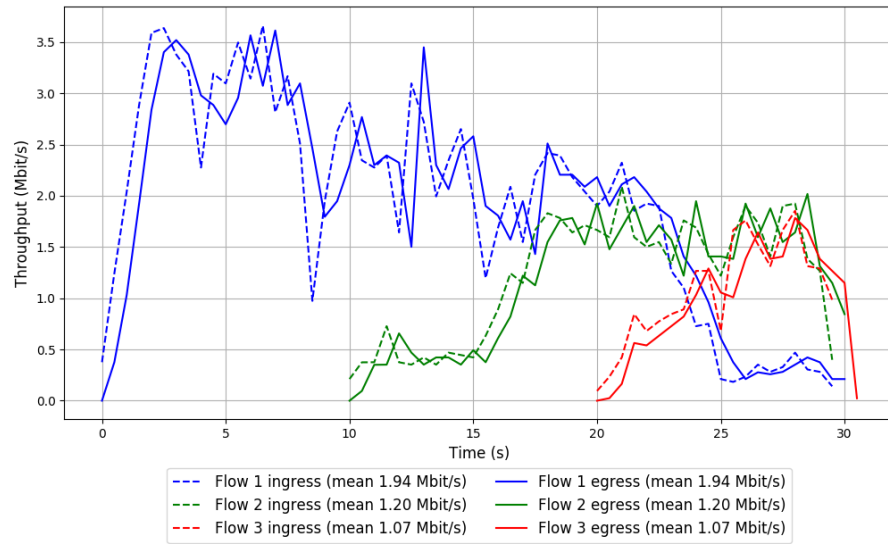


Run 3: Statistics of LEDBAT

Start at: 2018-06-05 10:45:00
End at: 2018-06-05 10:45:30
Local clock offset: -2.194 ms
Remote clock offset: -8.977 ms

Below is generated by plot.py at 2018-06-05 10:53:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.08 Mbit/s
95th percentile per-packet one-way delay: 230.846 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 208.494 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 1.20 Mbit/s
95th percentile per-packet one-way delay: 240.755 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 1.07 Mbit/s
95th percentile per-packet one-way delay: 270.347 ms
Loss rate: 1.98%

Run 3: Report of LEDBAT — Data Link

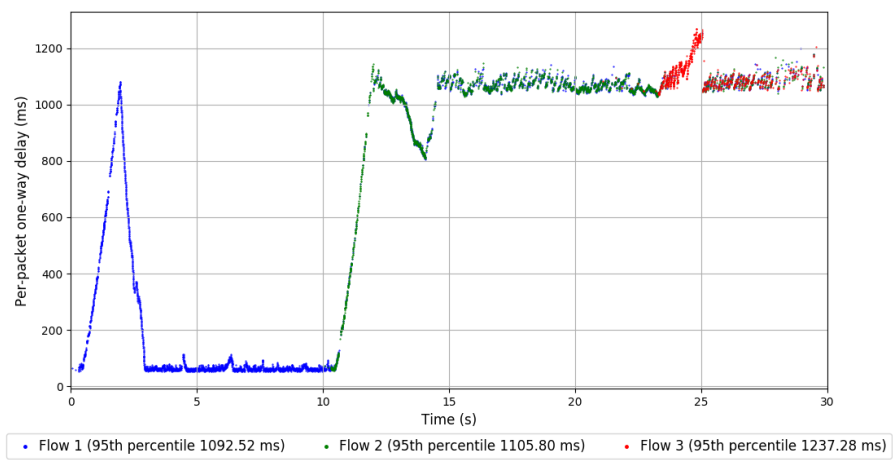
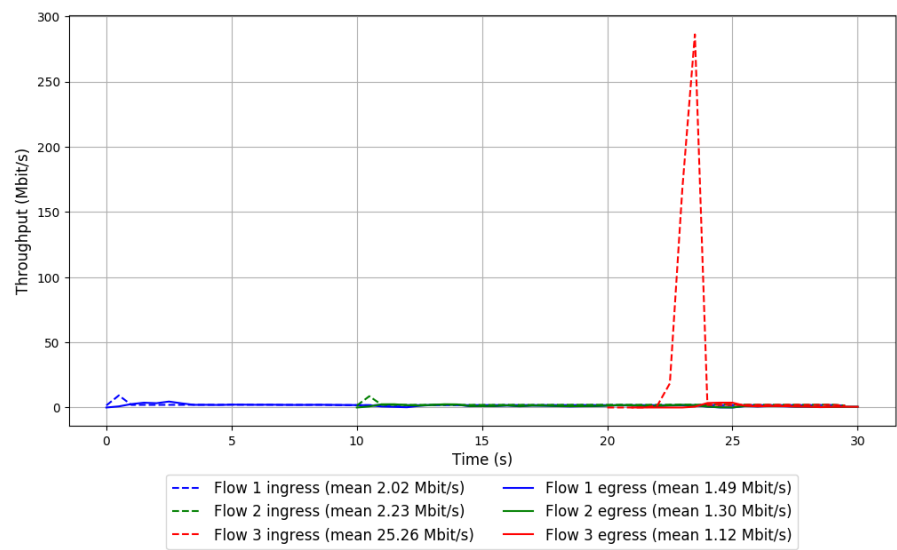


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-06-05 10:12:48
End at: 2018-06-05 10:13:18
Local clock offset: -0.436 ms
Remote clock offset: 7.61 ms

# Below is generated by plot.py at 2018-06-05 10:53:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.68 Mbit/s
95th percentile per-packet one-way delay: 1121.223 ms
Loss rate: 77.42%
-- Flow 1:
Average throughput: 1.49 Mbit/s
95th percentile per-packet one-way delay: 1092.524 ms
Loss rate: 26.34%
-- Flow 2:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 1105.804 ms
Loss rate: 42.16%
-- Flow 3:
Average throughput: 1.12 Mbit/s
95th percentile per-packet one-way delay: 1237.284 ms
Loss rate: 96.07%
```


Run 1: Report of PCC-Allegro — Data Link

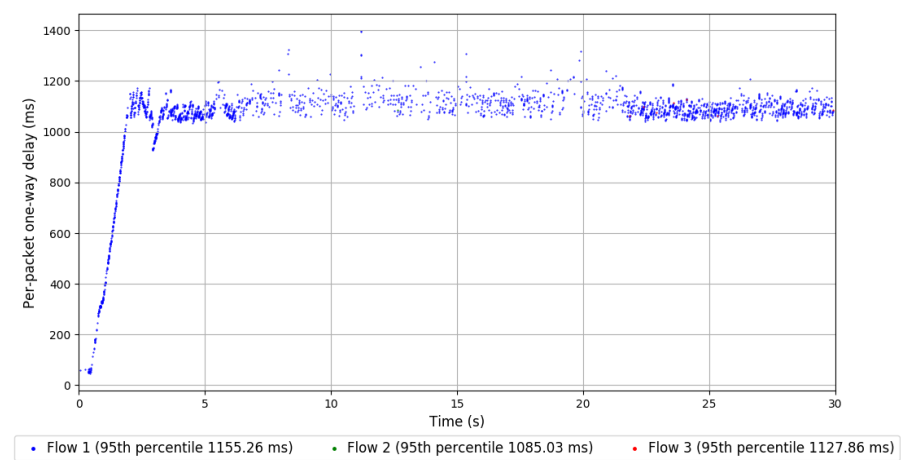
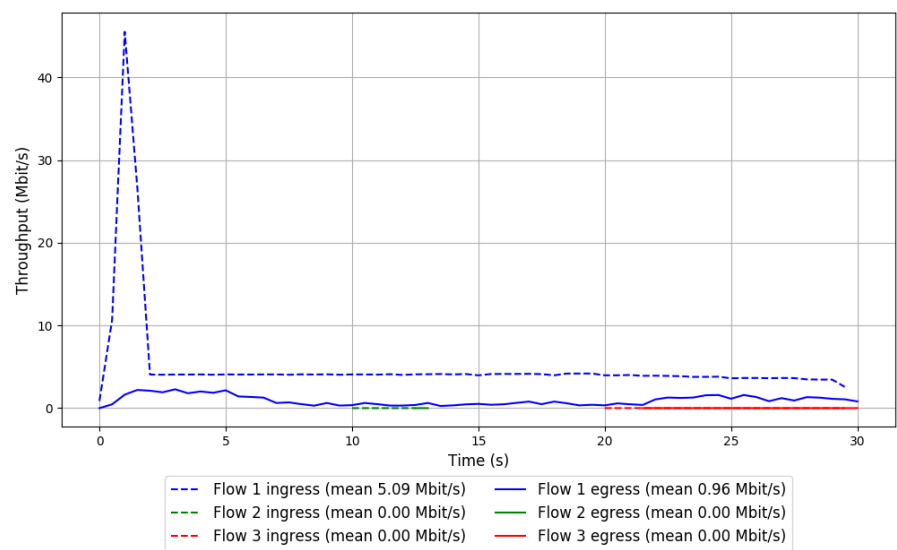


Run 2: Statistics of PCC-Allegro

Start at: 2018-06-05 10:30:29
End at: 2018-06-05 10:30:59
Local clock offset: 3.574 ms
Remote clock offset: -1.025 ms

Below is generated by plot.py at 2018-06-05 10:53:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.96 Mbit/s
95th percentile per-packet one-way delay: 1155.261 ms
Loss rate: 81.11%
-- Flow 1:
Average throughput: 0.96 Mbit/s
95th percentile per-packet one-way delay: 1155.261 ms
Loss rate: 81.11%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 1085.029 ms
Loss rate: 92.31%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 1127.858 ms
Loss rate: 73.25%

Run 2: Report of PCC-Allegro — Data Link

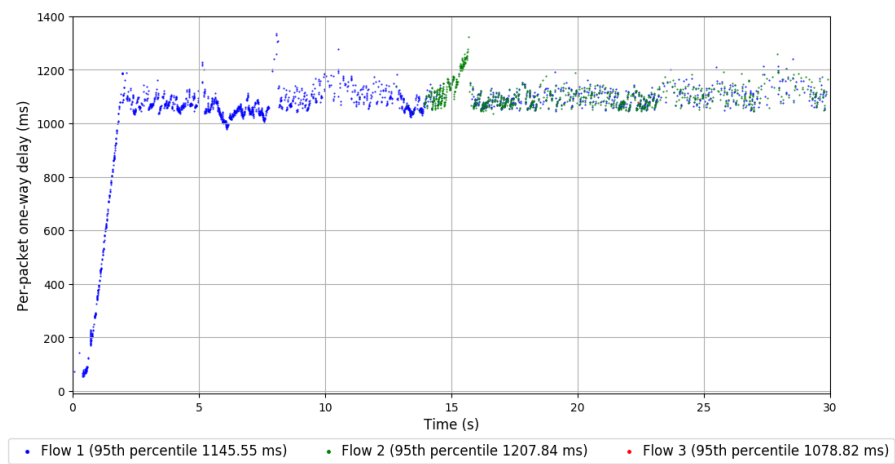
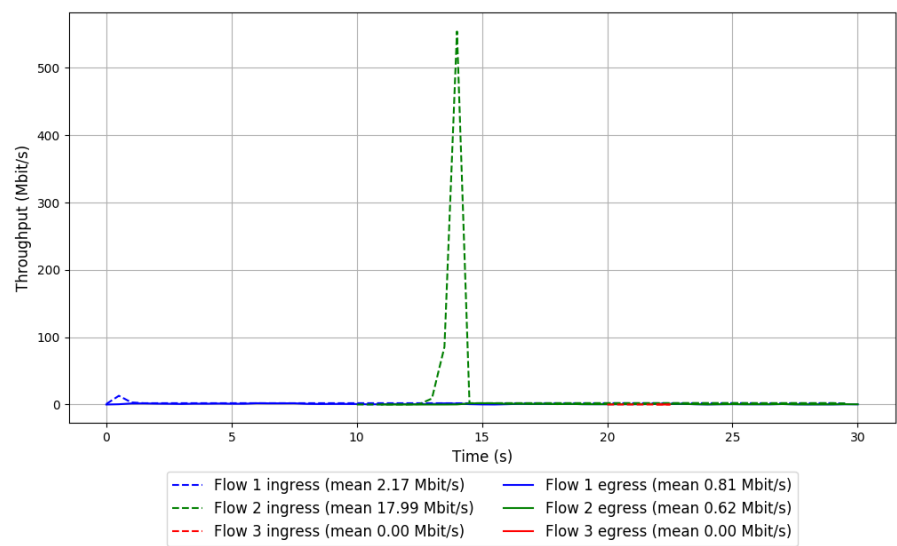


Run 3: Statistics of PCC-Allegro

Start at: 2018-06-05 10:48:23
End at: 2018-06-05 10:48:53
Local clock offset: 2.337 ms
Remote clock offset: -1.853 ms

Below is generated by plot.py at 2018-06-05 10:53:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.19 Mbit/s
95th percentile per-packet one-way delay: 1163.641 ms
Loss rate: 91.58%
-- Flow 1:
Average throughput: 0.81 Mbit/s
95th percentile per-packet one-way delay: 1145.550 ms
Loss rate: 62.83%
-- Flow 2:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 1207.844 ms
Loss rate: 96.80%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 1078.818 ms
Loss rate: 92.31%

Run 3: Report of PCC-Allegro — Data Link

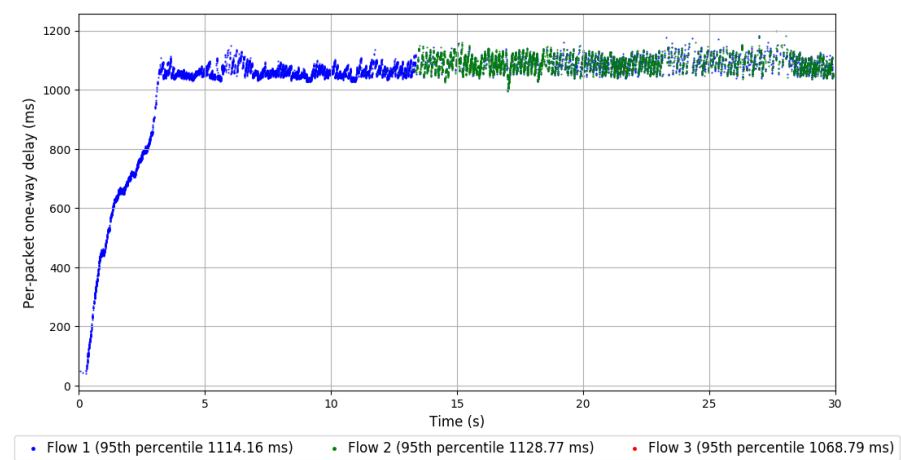
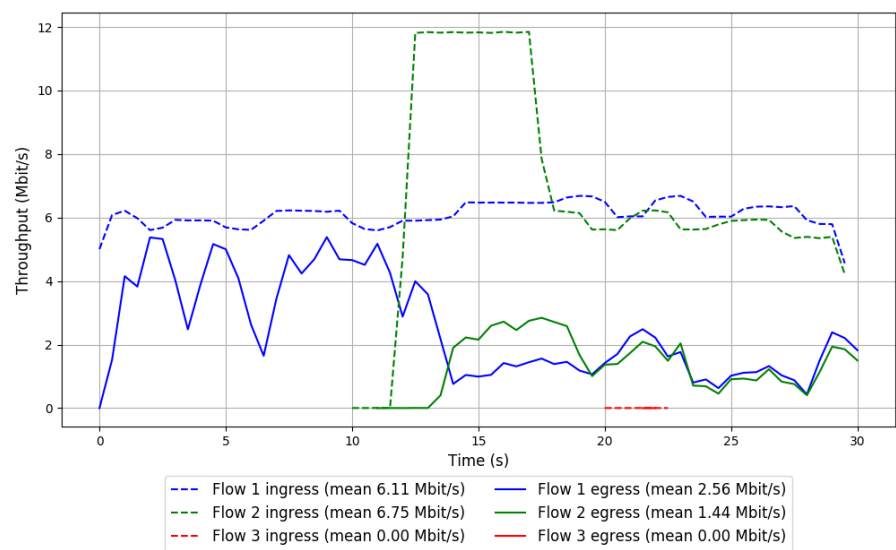


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-05 10:01:43
End at: 2018-06-05 10:02:13
Local clock offset: 0.422 ms
Remote clock offset: -2.563 ms

# Below is generated by plot.py at 2018-06-05 10:54:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.47 Mbit/s
95th percentile per-packet one-way delay: 1120.598 ms
Loss rate: 67.29%
-- Flow 1:
Average throughput: 2.56 Mbit/s
95th percentile per-packet one-way delay: 1114.162 ms
Loss rate: 58.12%
-- Flow 2:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 1128.771 ms
Loss rate: 79.77%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 1068.793 ms
Loss rate: 92.31%
```

Run 1: Report of PCC-Expr — Data Link

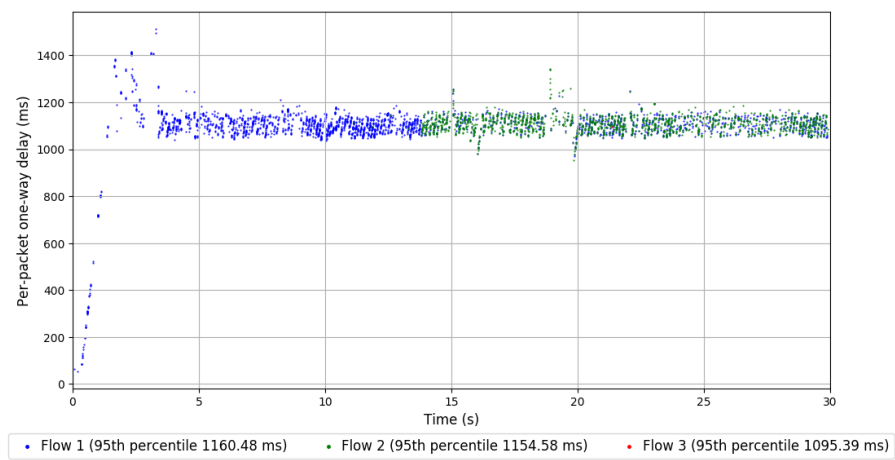
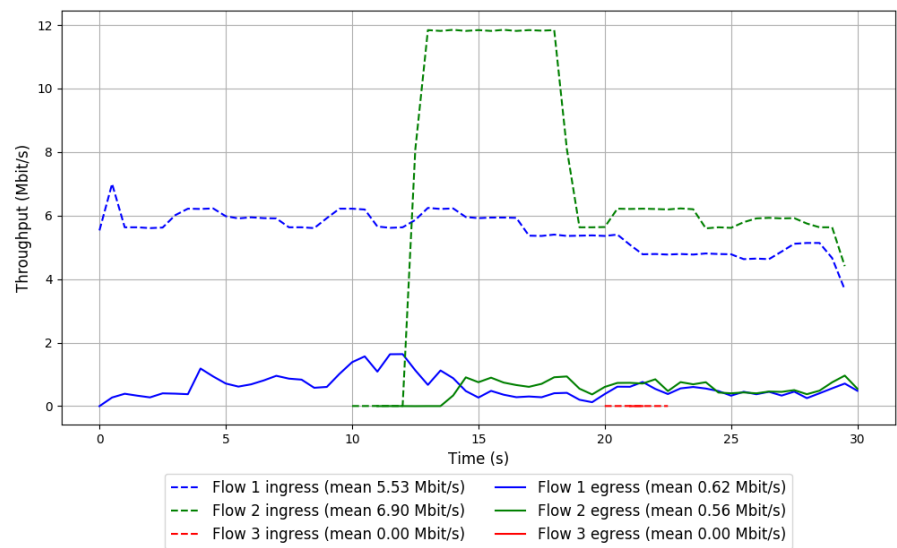


Run 2: Statistics of PCC-Expr

Start at: 2018-06-05 10:19:28
End at: 2018-06-05 10:19:58
Local clock offset: -1.423 ms
Remote clock offset: -2.537 ms

Below is generated by plot.py at 2018-06-05 10:54:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.97 Mbit/s
95th percentile per-packet one-way delay: 1157.669 ms
Loss rate: 90.39%
-- Flow 1:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 1160.482 ms
Loss rate: 88.74%
-- Flow 2:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 1154.575 ms
Loss rate: 92.39%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 1095.393 ms
Loss rate: 92.31%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

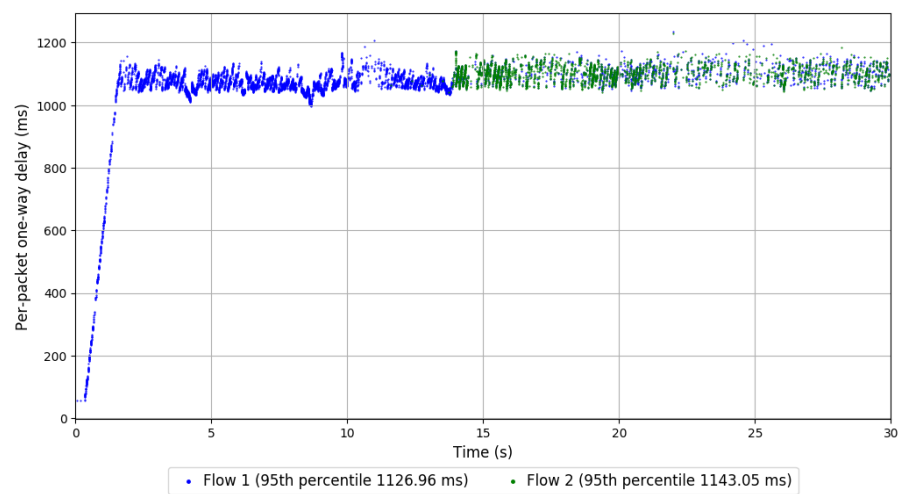
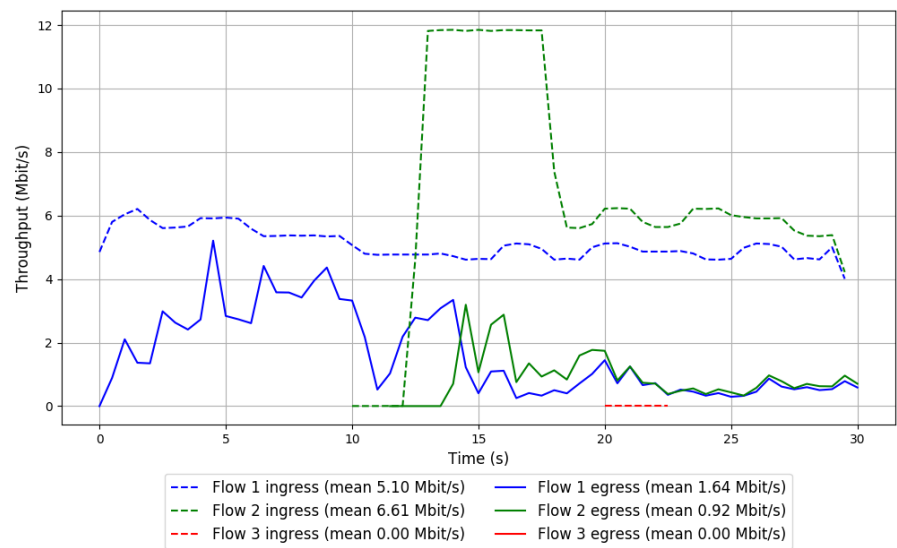
Start at: 2018-06-05 10:37:11

End at: 2018-06-05 10:37:41

Local clock offset: -0.006 ms

Remote clock offset: -5.9 ms

Run 3: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-06-05 10:17:12

End at: 2018-06-05 10:17:42

Local clock offset: -3.078 ms

Remote clock offset: 4.408 ms

Below is generated by plot.py at 2018-06-05 10:54:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.49 Mbit/s

95th percentile per-packet one-way delay: 735.814 ms

Loss rate: 3.17%

-- Flow 1:

Average throughput: 0.84 Mbit/s

95th percentile per-packet one-way delay: 705.531 ms

Loss rate: 2.43%

-- Flow 2:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 720.683 ms

Loss rate: 3.56%

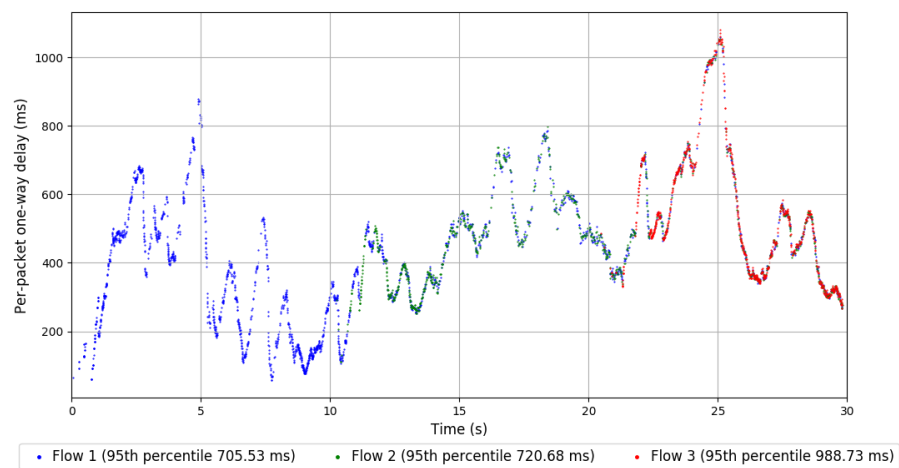
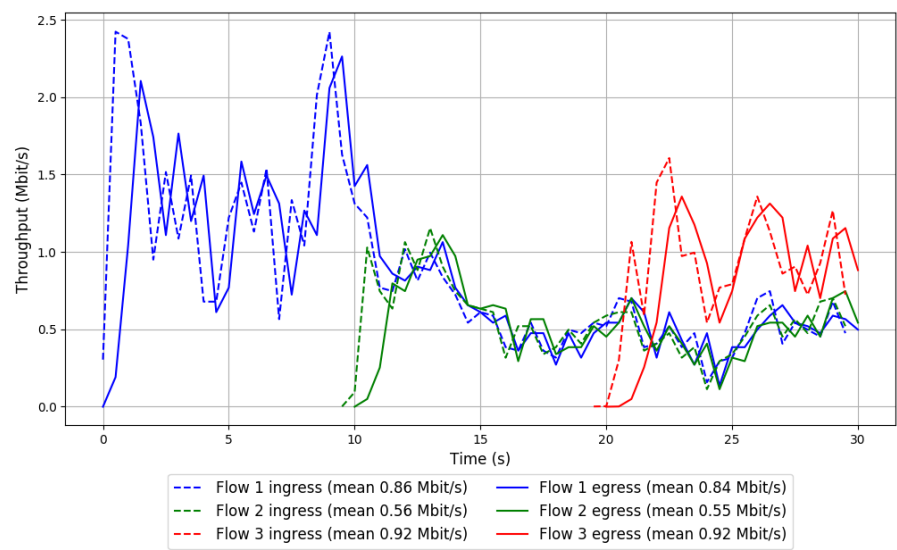
-- Flow 3:

Average throughput: 0.92 Mbit/s

95th percentile per-packet one-way delay: 988.732 ms

Loss rate: 4.76%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-06-05 10:34:58

End at: 2018-06-05 10:35:28

Local clock offset: -1.677 ms

Remote clock offset: -9.39 ms

Below is generated by plot.py at 2018-06-05 10:54:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 931.545 ms

Loss rate: 3.07%

-- Flow 1:

Average throughput: 1.53 Mbit/s

95th percentile per-packet one-way delay: 893.610 ms

Loss rate: 2.02%

-- Flow 2:

Average throughput: 0.85 Mbit/s

95th percentile per-packet one-way delay: 991.583 ms

Loss rate: 3.71%

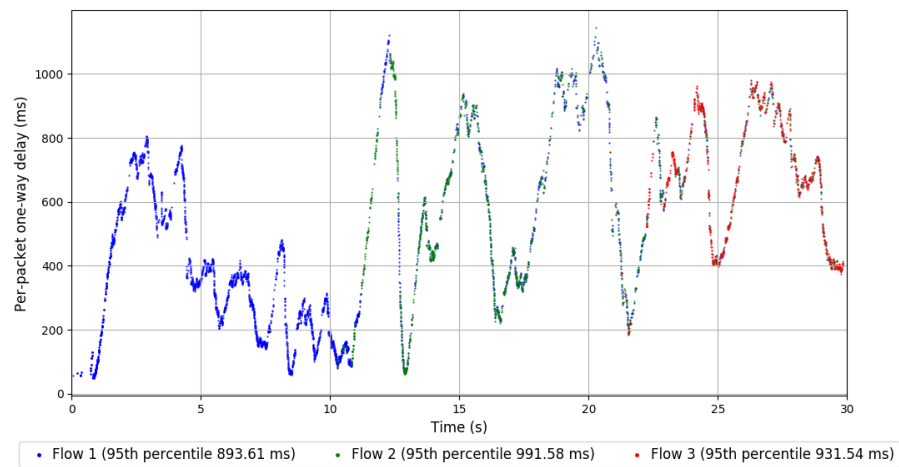
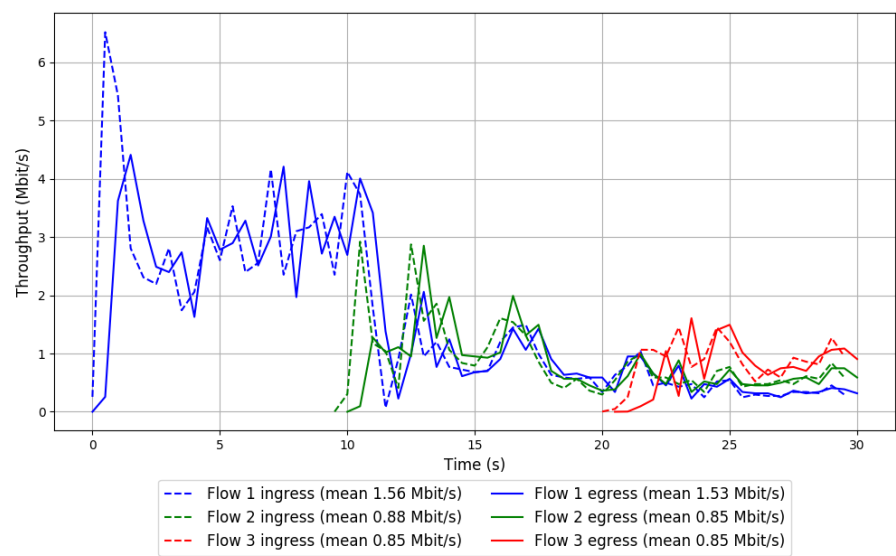
-- Flow 3:

Average throughput: 0.85 Mbit/s

95th percentile per-packet one-way delay: 931.545 ms

Loss rate: 7.62%

Run 2: Report of QUIC Cubic — Data Link

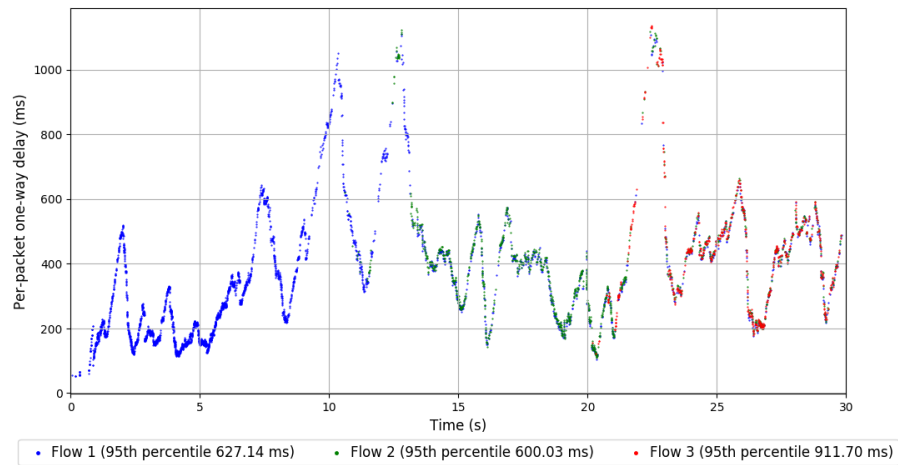
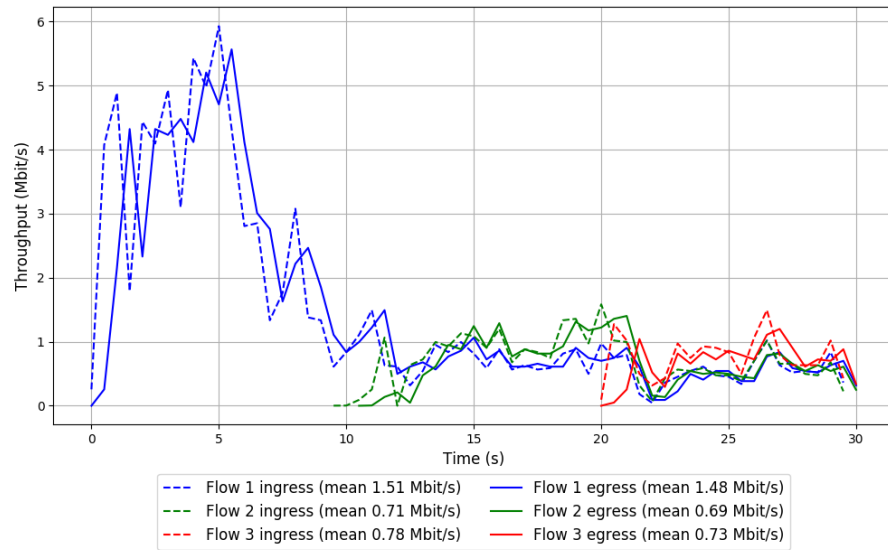


Run 3: Statistics of QUIC Cubic

Start at: 2018-06-05 10:52:46
End at: 2018-06-05 10:53:16
Local clock offset: -0.62 ms
Remote clock offset: -11.29 ms

Below is generated by plot.py at 2018-06-05 10:54:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 634.041 ms
Loss rate: 3.43%
-- Flow 1:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: 627.144 ms
Loss rate: 2.04%
-- Flow 2:
Average throughput: 0.69 Mbit/s
95th percentile per-packet one-way delay: 600.033 ms
Loss rate: 5.54%
-- Flow 3:
Average throughput: 0.73 Mbit/s
95th percentile per-packet one-way delay: 911.701 ms
Loss rate: 7.73%

Run 3: Report of QUIC Cubic — Data Link

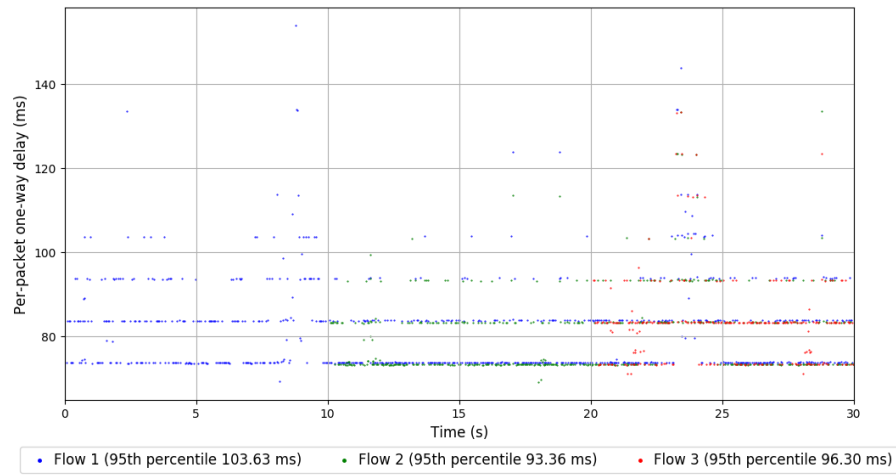
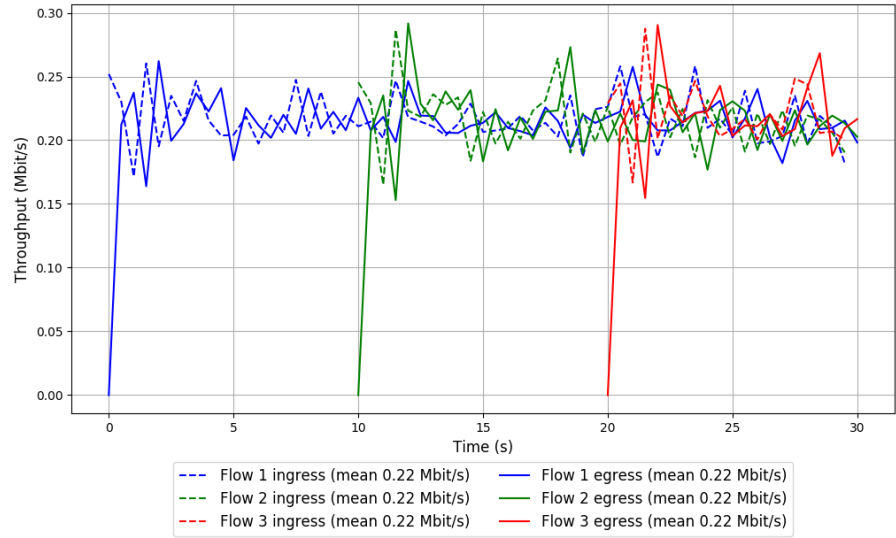


Run 1: Statistics of SReAM

Start at: 2018-06-05 10:10:37
End at: 2018-06-05 10:11:07
Local clock offset: -3.381 ms
Remote clock offset: 18.823 ms

Below is generated by plot.py at 2018-06-05 10:54:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 99.506 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 103.632 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 93.358 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 96.295 ms
Loss rate: 0.35%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-06-05 10:28:18

End at: 2018-06-05 10:28:48

Local clock offset: 0.816 ms

Remote clock offset: 9.97 ms

Below is generated by plot.py at 2018-06-05 10:54:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 95.734 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 95.640 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 95.584 ms

Loss rate: 0.14%

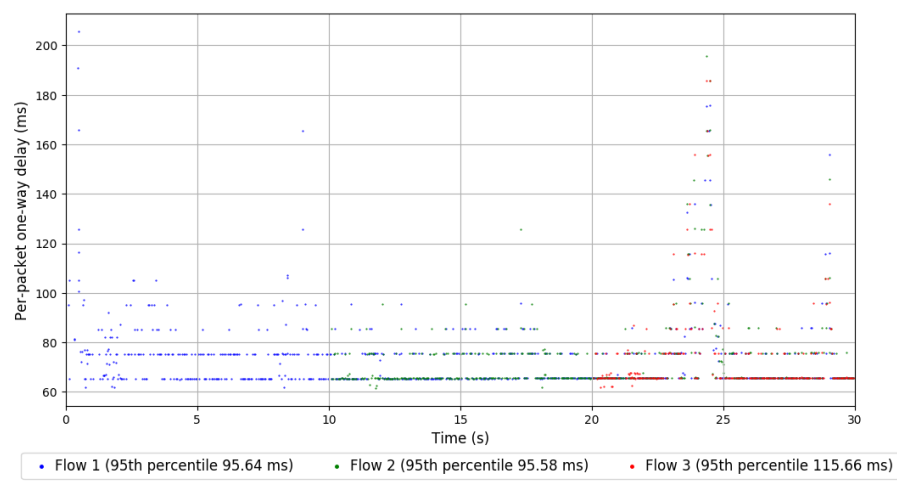
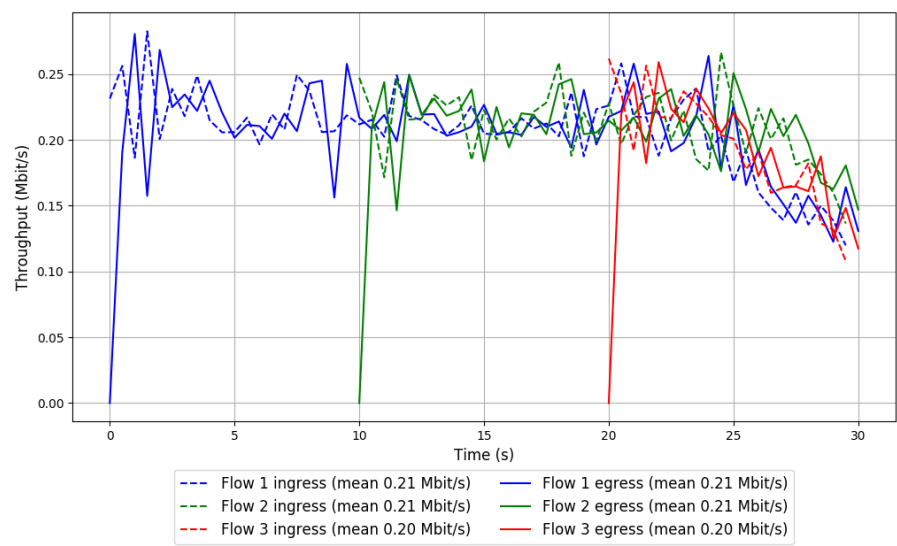
-- Flow 3:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 115.660 ms

Loss rate: 0.24%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-06-05 10:46:12

End at: 2018-06-05 10:46:42

Local clock offset: 1.808 ms

Remote clock offset: 4.76 ms

Below is generated by plot.py at 2018-06-05 10:54:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 88.043 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.038 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.554 ms

Loss rate: 0.19%

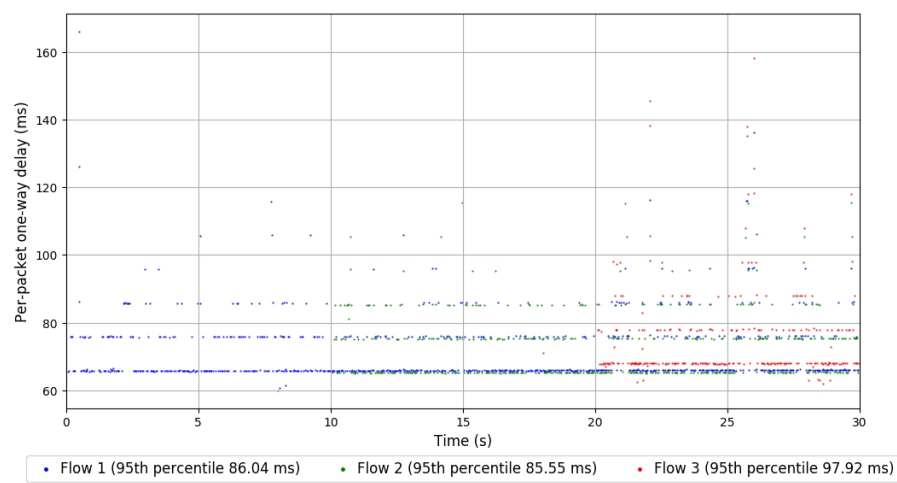
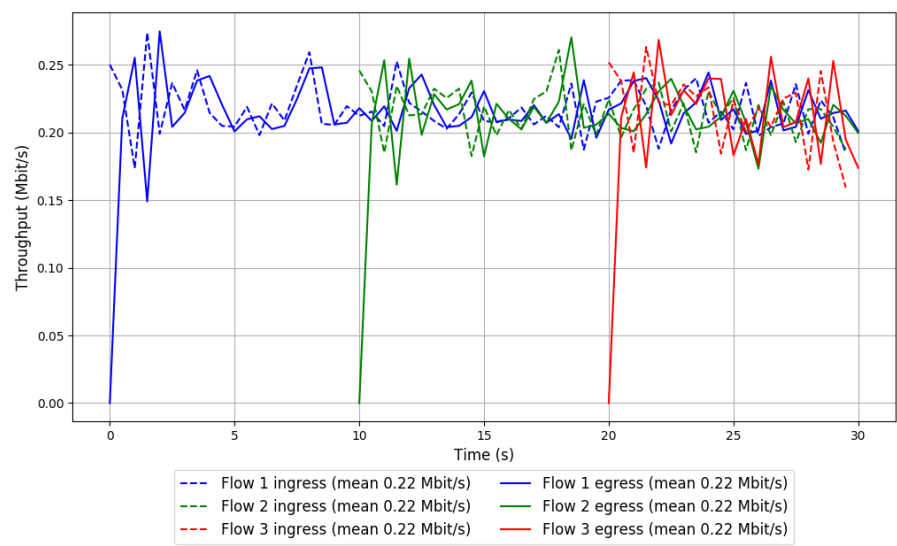
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 97.923 ms

Loss rate: 0.31%

Run 3: Report of SReAM — Data Link

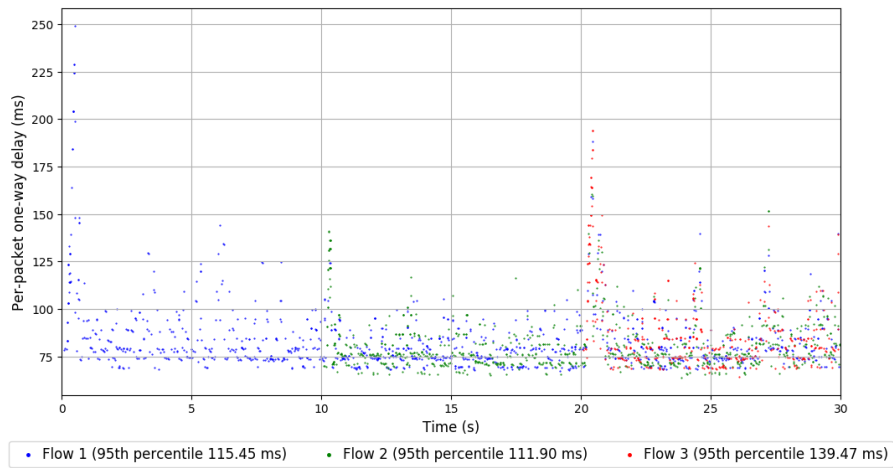
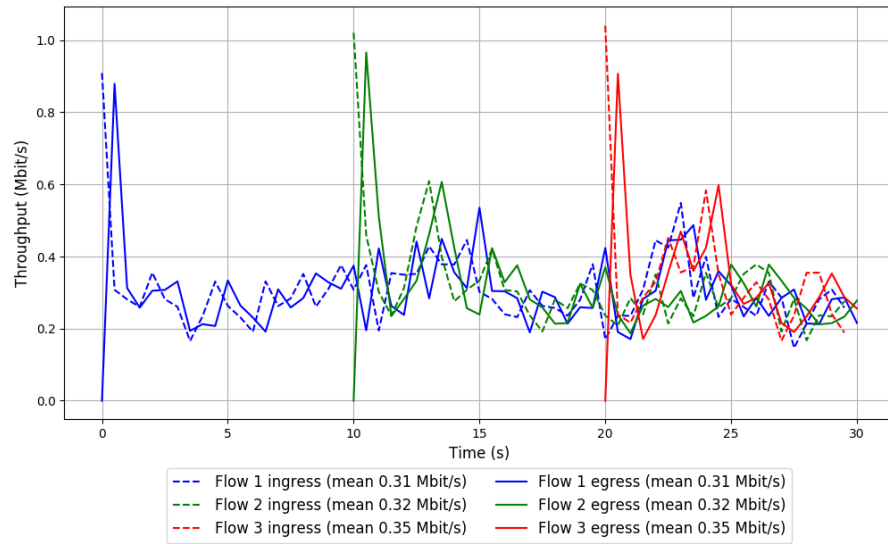


Run 1: Statistics of Sprout

Start at: 2018-06-05 10:16:06
End at: 2018-06-05 10:16:37
Local clock offset: -2.501 ms
Remote clock offset: 18.548 ms

Below is generated by plot.py at 2018-06-05 10:54:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 121.431 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 115.448 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 111.901 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 139.470 ms
Loss rate: 0.02%

Run 1: Report of Sprout — Data Link

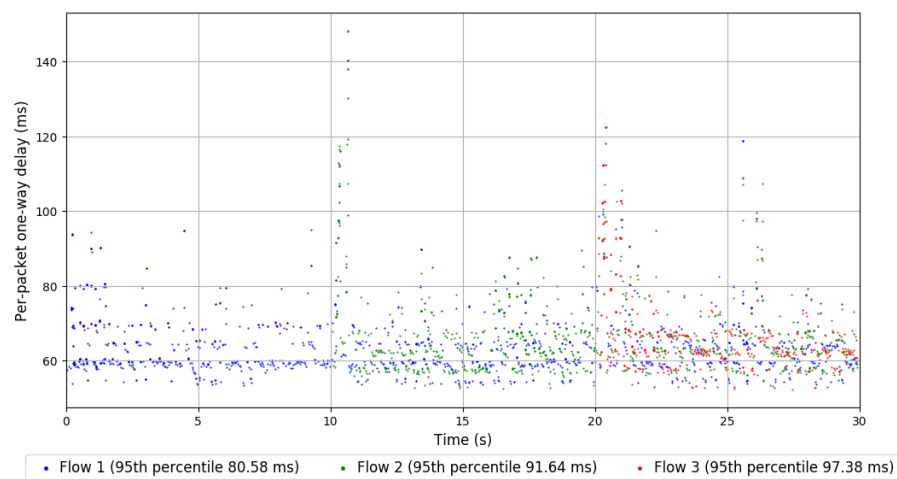
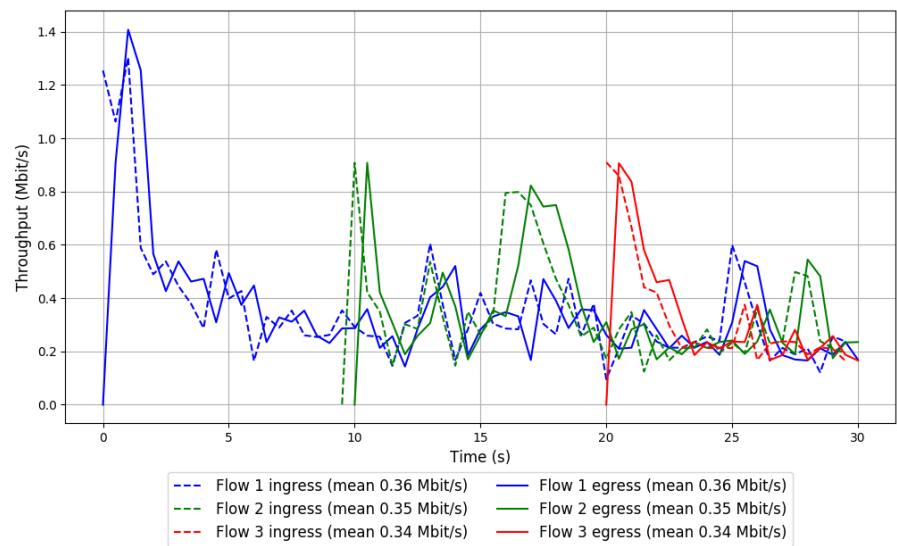


Run 2: Statistics of Sprout

Start at: 2018-06-05 10:33:47
End at: 2018-06-05 10:34:17
Local clock offset: -0.115 ms
Remote clock offset: 2.313 ms

Below is generated by plot.py at 2018-06-05 10:54:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.70 Mbit/s
95th percentile per-packet one-way delay: 89.761 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 80.585 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 91.643 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 97.379 ms
Loss rate: 0.33%

Run 2: Report of Sprout — Data Link

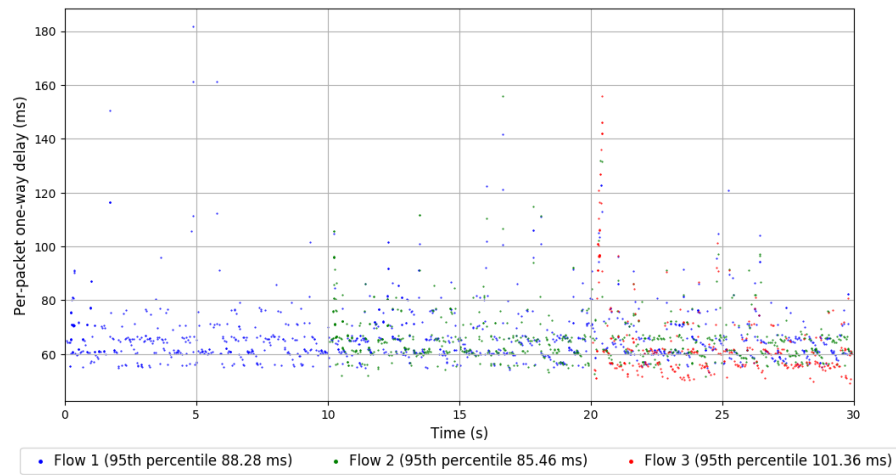
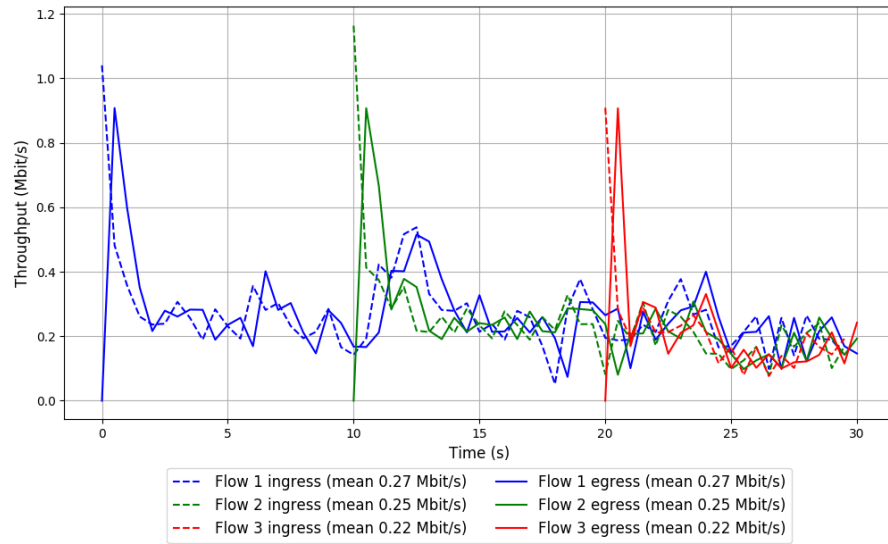


Run 3: Statistics of Sprout

Start at: 2018-06-05 10:51:41
End at: 2018-06-05 10:52:11
Local clock offset: -0.001 ms
Remote clock offset: -5.316 ms

```
# Below is generated by plot.py at 2018-06-05 10:54:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 91.189 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 88.285 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 85.457 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 101.365 ms
Loss rate: 0.04%
```

Run 3: Report of Sprout — Data Link

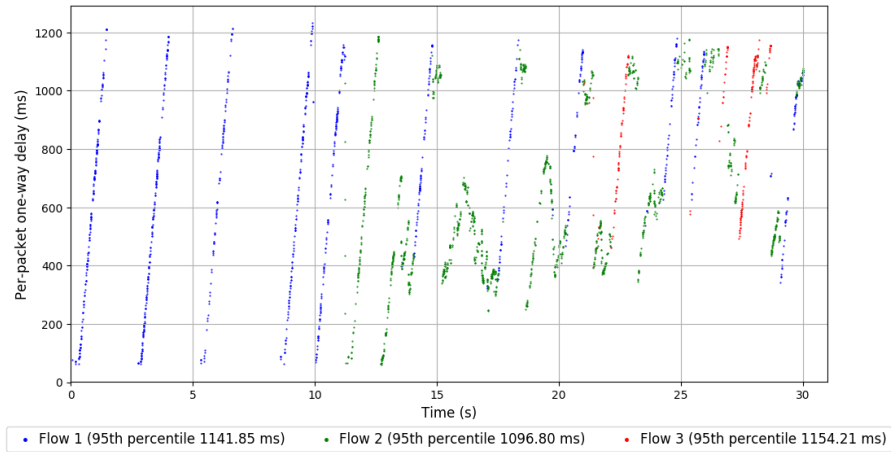
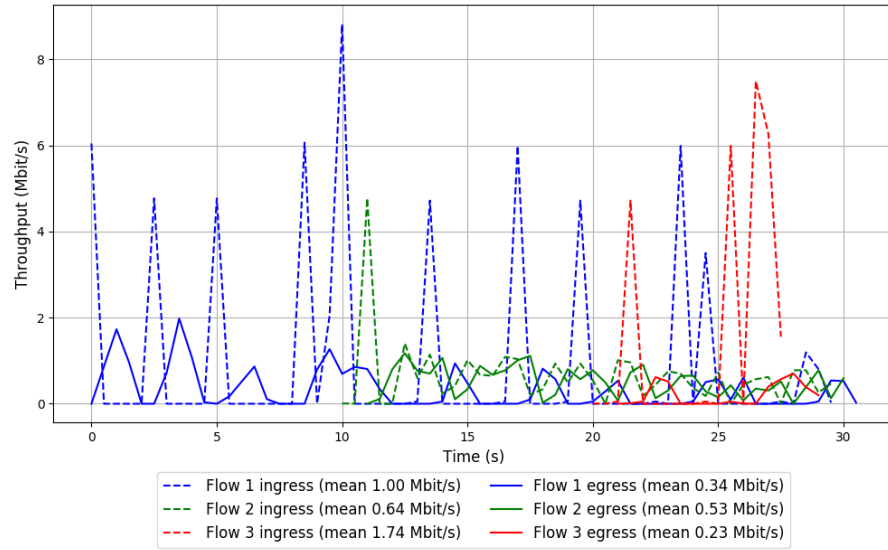


Run 1: Statistics of TaoVA-100x

Start at: 2018-06-05 10:08:25
End at: 2018-06-05 10:08:55
Local clock offset: -2.334 ms
Remote clock offset: 12.861 ms

Below is generated by plot.py at 2018-06-05 10:54:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.73 Mbit/s
95th percentile per-packet one-way delay: 1132.314 ms
Loss rate: 60.63%
-- Flow 1:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 1141.849 ms
Loss rate: 65.51%
-- Flow 2:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 1096.797 ms
Loss rate: 22.86%
-- Flow 3:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 1154.206 ms
Loss rate: 86.60%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-06-05 10:26:07

End at: 2018-06-05 10:26:37

Local clock offset: -4.859 ms

Remote clock offset: -2.42 ms

Below is generated by plot.py at 2018-06-05 10:54:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.66 Mbit/s

95th percentile per-packet one-way delay: 1018.771 ms

Loss rate: 9.95%

-- Flow 1:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 1020.524 ms

Loss rate: 4.65%

-- Flow 2:

Average throughput: 0.70 Mbit/s

95th percentile per-packet one-way delay: 954.457 ms

Loss rate: 6.12%

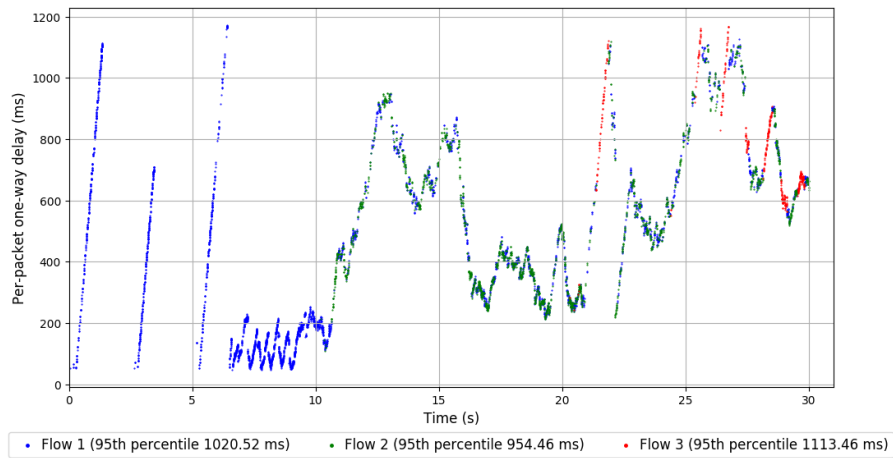
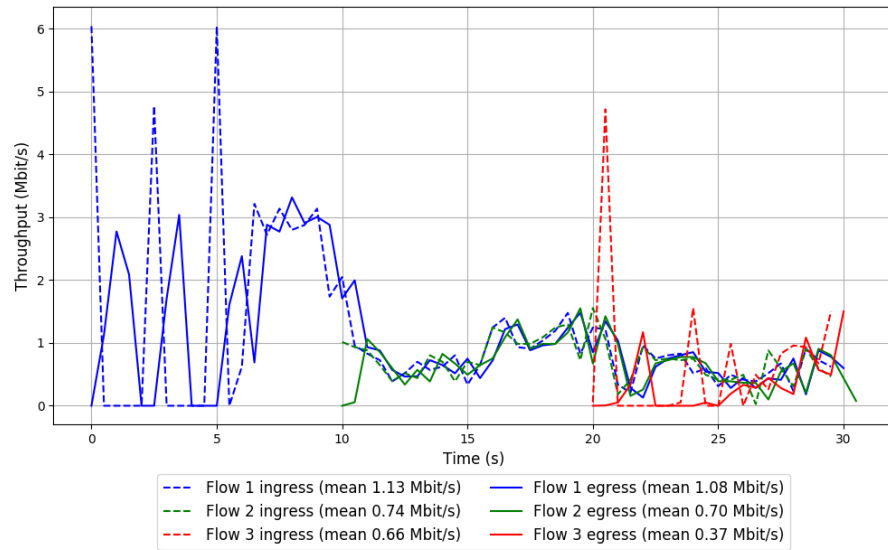
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 1113.459 ms

Loss rate: 46.35%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-06-05 10:43:48

End at: 2018-06-05 10:44:18

Local clock offset: -1.074 ms

Remote clock offset: 0.877 ms

Below is generated by plot.py at 2018-06-05 10:54:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 1001.202 ms

Loss rate: 5.35%

-- Flow 1:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 862.174 ms

Loss rate: 2.10%

-- Flow 2:

Average throughput: 1.02 Mbit/s

95th percentile per-packet one-way delay: 1000.894 ms

Loss rate: 3.73%

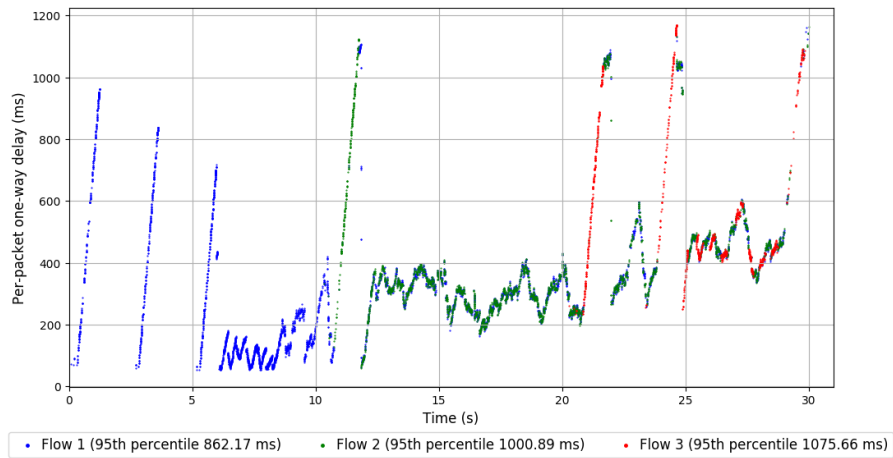
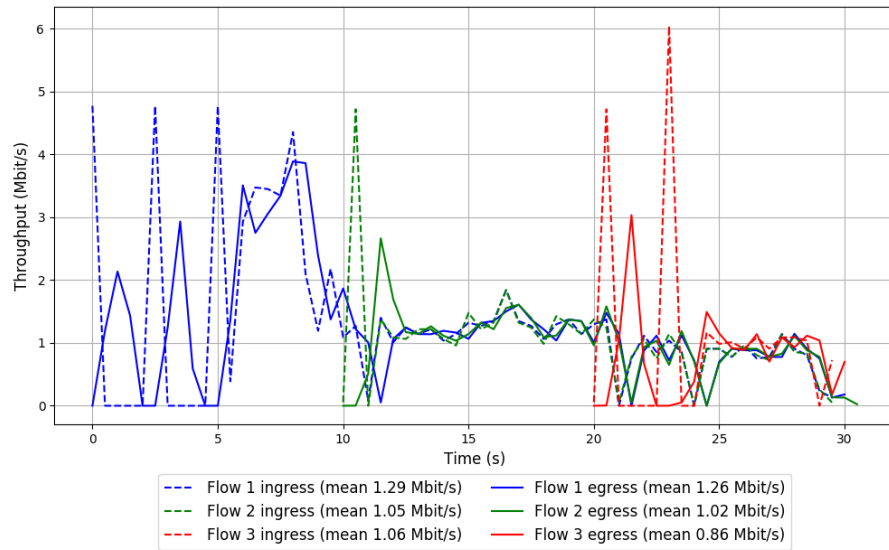
-- Flow 3:

Average throughput: 0.86 Mbit/s

95th percentile per-packet one-way delay: 1075.663 ms

Loss rate: 20.65%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-06-05 10:07:20

End at: 2018-06-05 10:07:50

Local clock offset: -1.548 ms

Remote clock offset: 13.5 ms

Below is generated by plot.py at 2018-06-05 10:54:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.66 Mbit/s

95th percentile per-packet one-way delay: 532.630 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 0.85 Mbit/s

95th percentile per-packet one-way delay: 312.589 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 350.628 ms

Loss rate: 0.31%

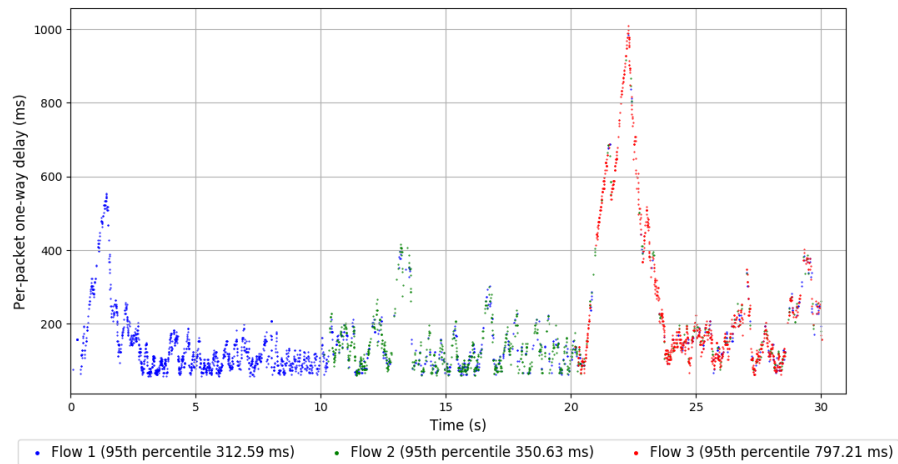
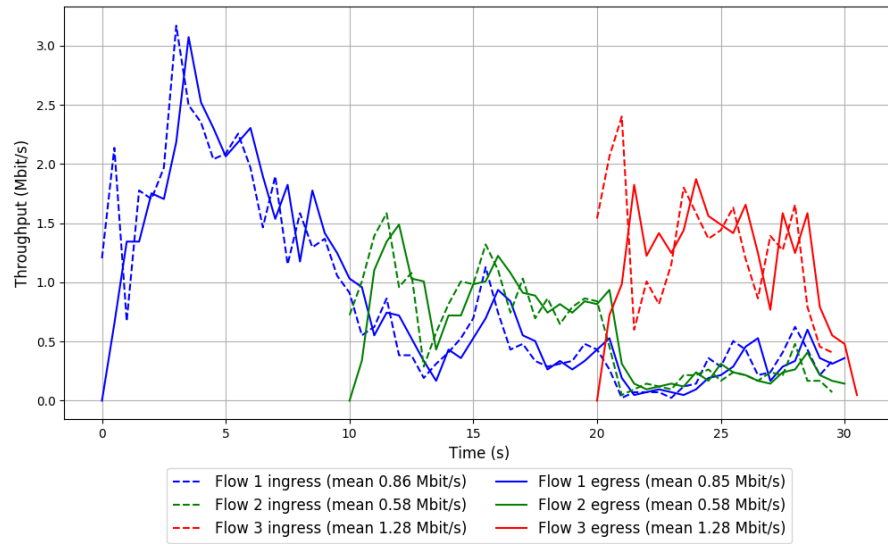
-- Flow 3:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 797.209 ms

Loss rate: 1.13%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-06-05 10:25:01

End at: 2018-06-05 10:25:31

Local clock offset: -0.23 ms

Remote clock offset: 6.407 ms

Below is generated by plot.py at 2018-06-05 10:54:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 283.943 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 233.932 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 0.80 Mbit/s

95th percentile per-packet one-way delay: 284.242 ms

Loss rate: 0.67%

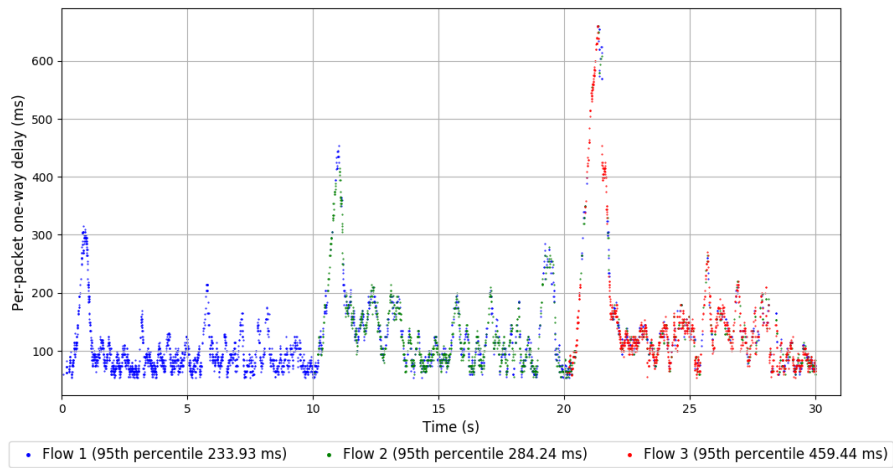
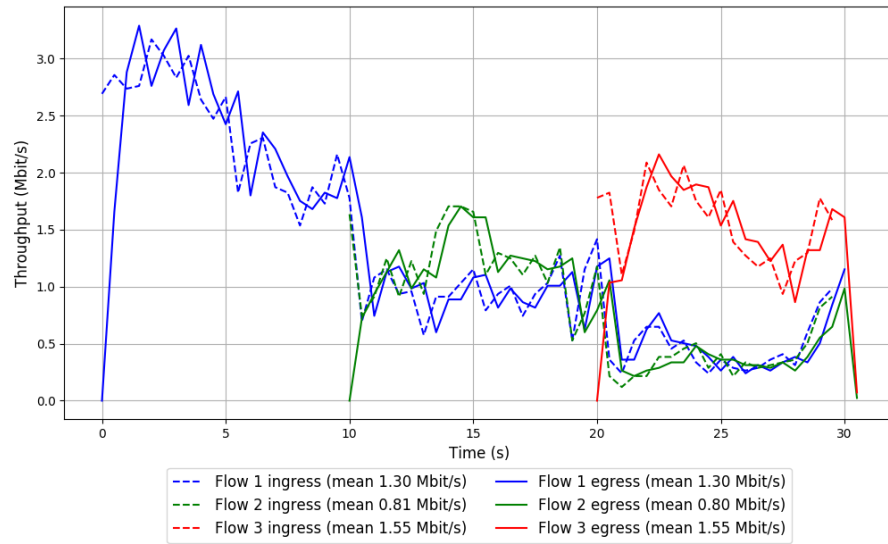
-- Flow 3:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 459.445 ms

Loss rate: 0.77%

Run 2: Report of TCP Vegas — Data Link

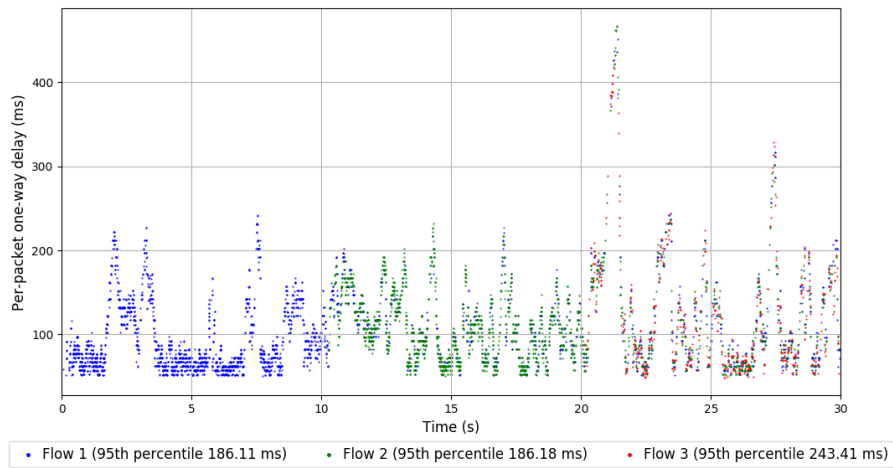
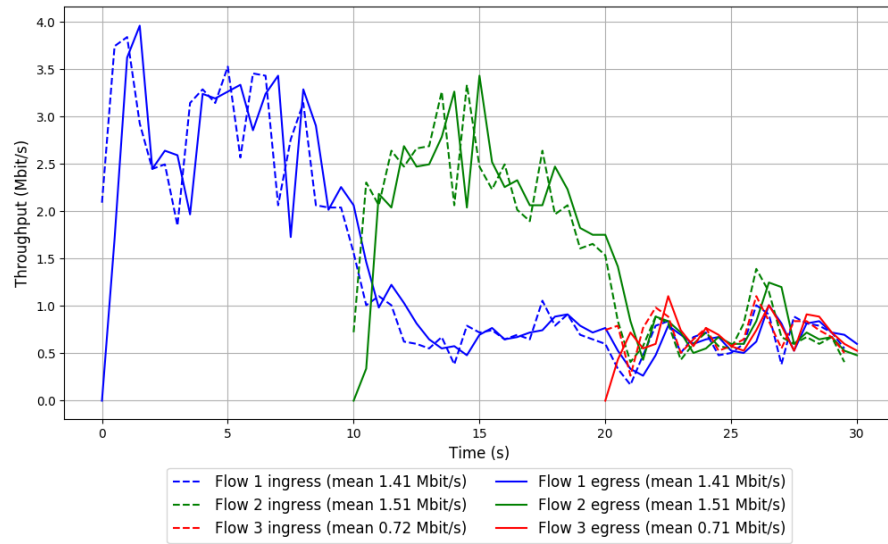


Run 3: Statistics of TCP Vegas

Start at: 2018-06-05 10:42:43
End at: 2018-06-05 10:43:13
Local clock offset: 1.212 ms
Remote clock offset: -3.672 ms

Below is generated by plot.py at 2018-06-05 10:54:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.65 Mbit/s
95th percentile per-packet one-way delay: 191.525 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 186.112 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 1.51 Mbit/s
95th percentile per-packet one-way delay: 186.179 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 0.71 Mbit/s
95th percentile per-packet one-way delay: 243.407 ms
Loss rate: 1.35%

Run 3: Report of TCP Vegas — Data Link

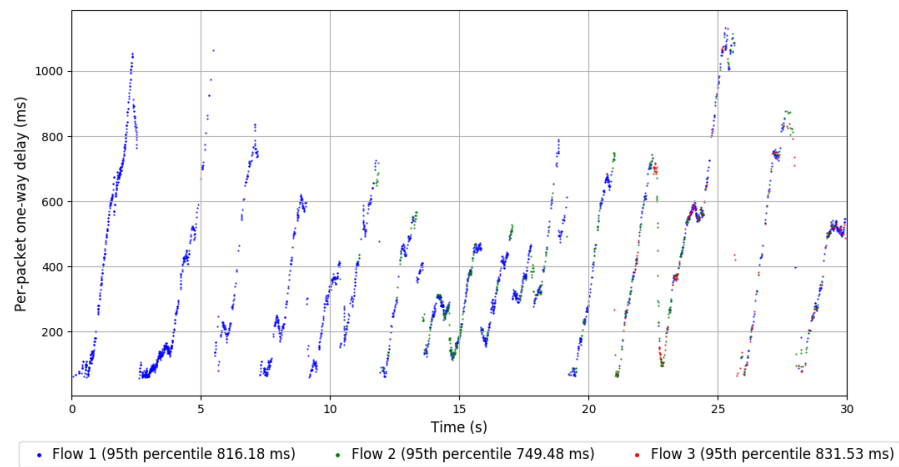
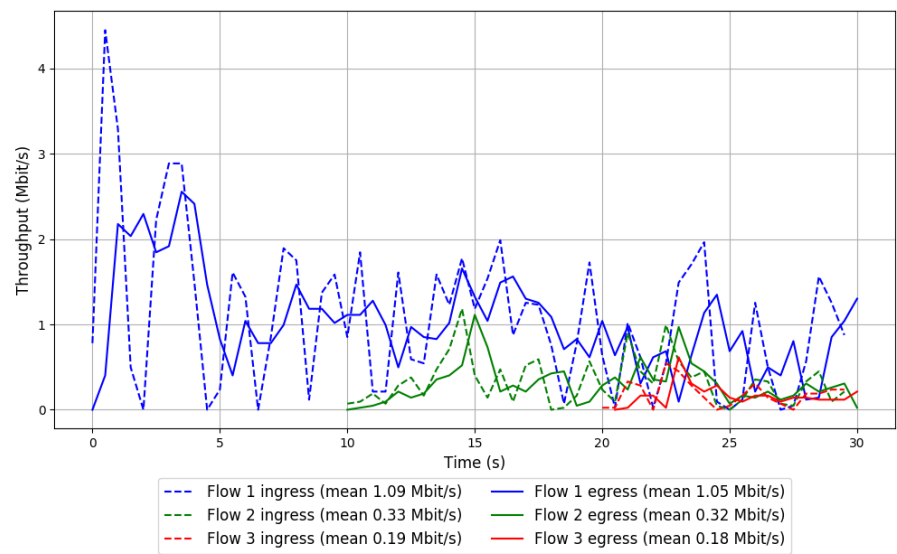


Run 1: Statistics of Verus

Start at: 2018-06-05 10:15:00
End at: 2018-06-05 10:15:30
Local clock offset: -0.534 ms
Remote clock offset: 13.272 ms

Below is generated by plot.py at 2018-06-05 10:54:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 815.356 ms
Loss rate: 4.44%
-- Flow 1:
Average throughput: 1.05 Mbit/s
95th percentile per-packet one-way delay: 816.178 ms
Loss rate: 4.02%
-- Flow 2:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 749.478 ms
Loss rate: 5.08%
-- Flow 3:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 831.531 ms
Loss rate: 9.68%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-06-05 10:32:41

End at: 2018-06-05 10:33:11

Local clock offset: 2.58 ms

Remote clock offset: 3.54 ms

Below is generated by plot.py at 2018-06-05 10:54:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.07 Mbit/s

95th percentile per-packet one-way delay: 1057.888 ms

Loss rate: 22.24%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 1082.746 ms

Loss rate: 28.05%

-- Flow 2:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 842.540 ms

Loss rate: 6.84%

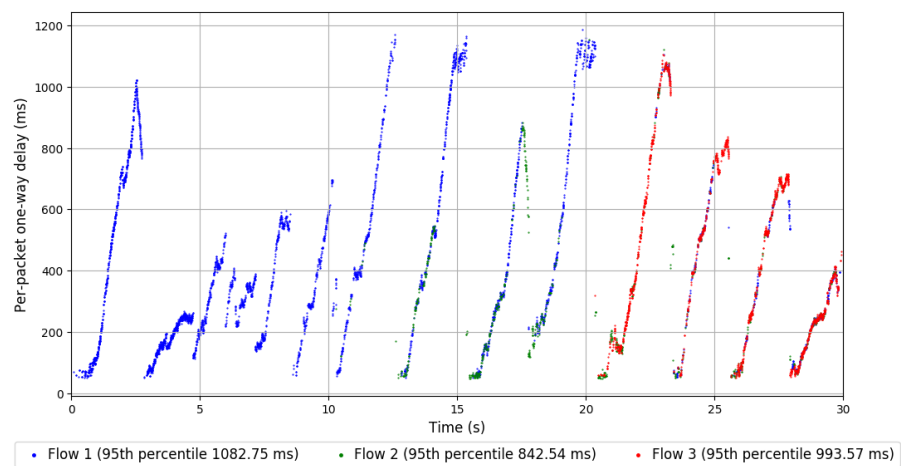
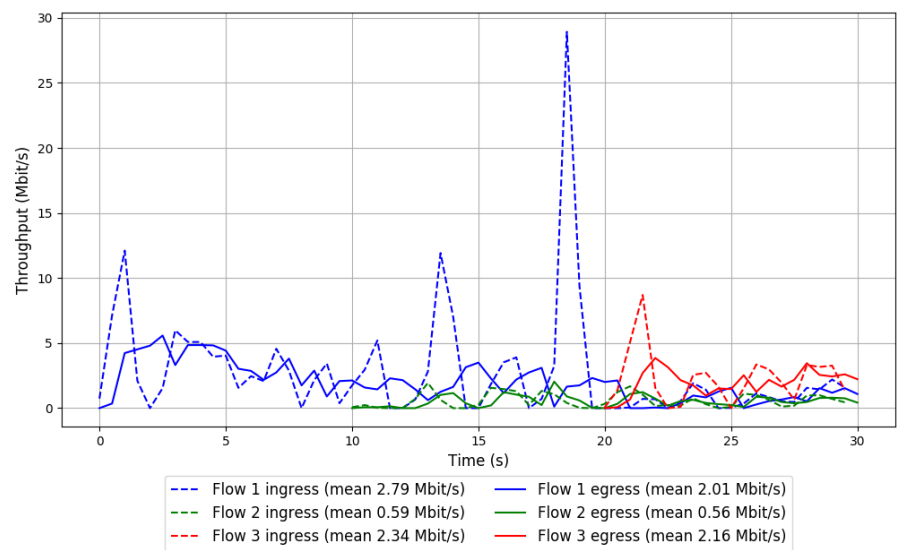
-- Flow 3:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 993.571 ms

Loss rate: 8.86%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-06-05 10:50:35

End at: 2018-06-05 10:51:05

Local clock offset: 0.823 ms

Remote clock offset: -5.84 ms

Below is generated by plot.py at 2018-06-05 10:54:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.64 Mbit/s

95th percentile per-packet one-way delay: 1044.867 ms

Loss rate: 7.74%

-- Flow 1:

Average throughput: 1.13 Mbit/s

95th percentile per-packet one-way delay: 843.726 ms

Loss rate: 4.70%

-- Flow 2:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 1077.326 ms

Loss rate: 12.45%

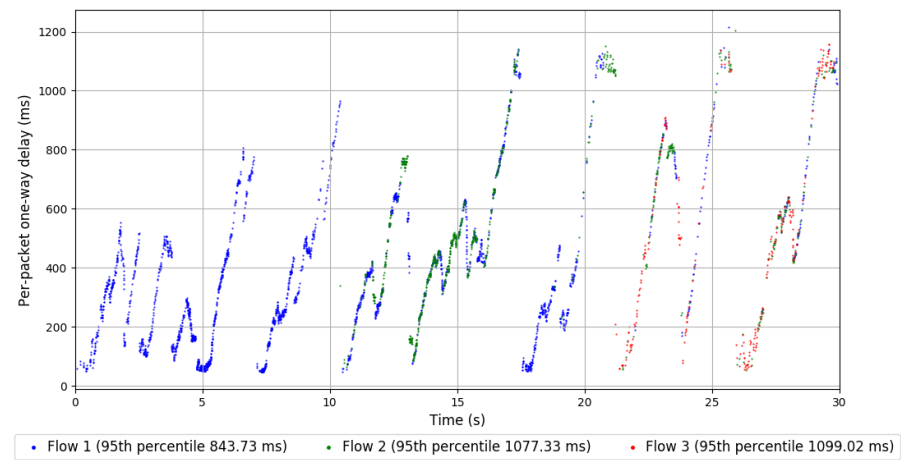
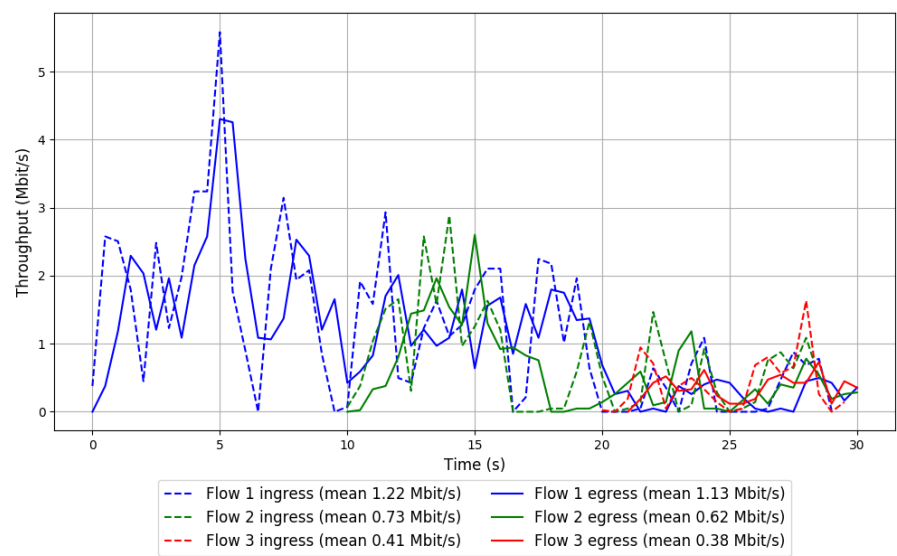
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 1099.024 ms

Loss rate: 18.48%

Run 3: Report of Verus — Data Link

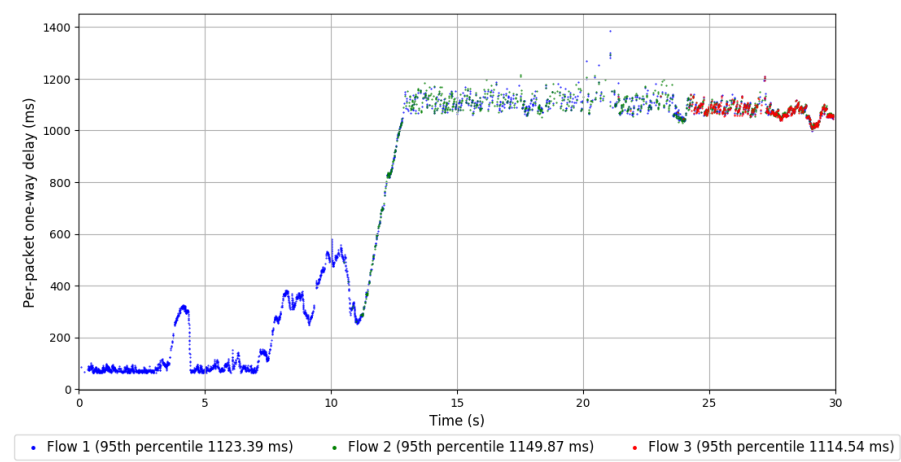
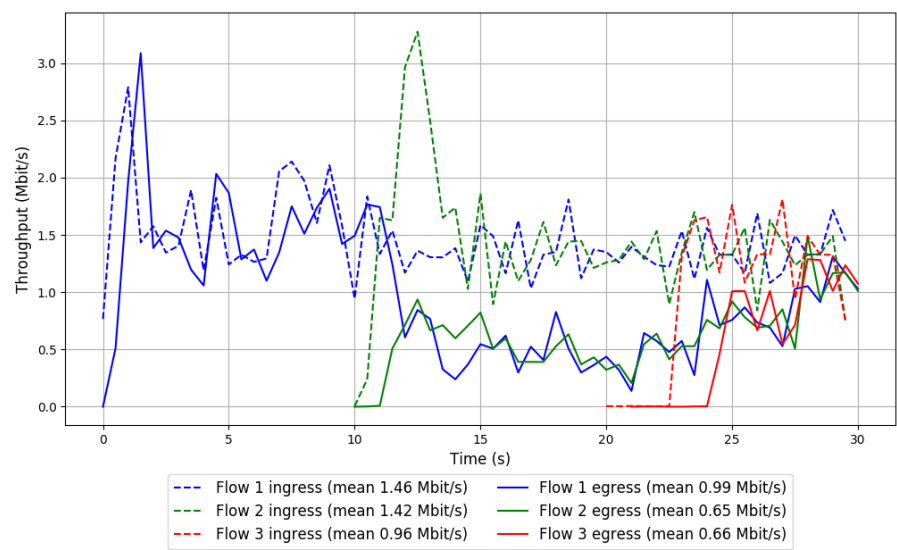


Run 1: Statistics of PCC-Vivace

Start at: 2018-06-05 10:05:03
End at: 2018-06-05 10:05:33
Local clock offset: -0.24 ms
Remote clock offset: 14.162 ms

Below is generated by plot.py at 2018-06-05 10:54:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.60 Mbit/s
95th percentile per-packet one-way delay: 1133.362 ms
Loss rate: 41.17%
-- Flow 1:
Average throughput: 0.99 Mbit/s
95th percentile per-packet one-way delay: 1123.390 ms
Loss rate: 32.13%
-- Flow 2:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 1149.866 ms
Loss rate: 55.45%
-- Flow 3:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 1114.543 ms
Loss rate: 40.28%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-06-05 10:22:50

End at: 2018-06-05 10:23:20

Local clock offset: -0.667 ms

Remote clock offset: 6.357 ms

Below is generated by plot.py at 2018-06-05 10:54:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.63 Mbit/s

95th percentile per-packet one-way delay: 1115.746 ms

Loss rate: 40.04%

-- Flow 1:

Average throughput: 0.99 Mbit/s

95th percentile per-packet one-way delay: 1102.873 ms

Loss rate: 27.51%

-- Flow 2:

Average throughput: 0.82 Mbit/s

95th percentile per-packet one-way delay: 1123.771 ms

Loss rate: 46.14%

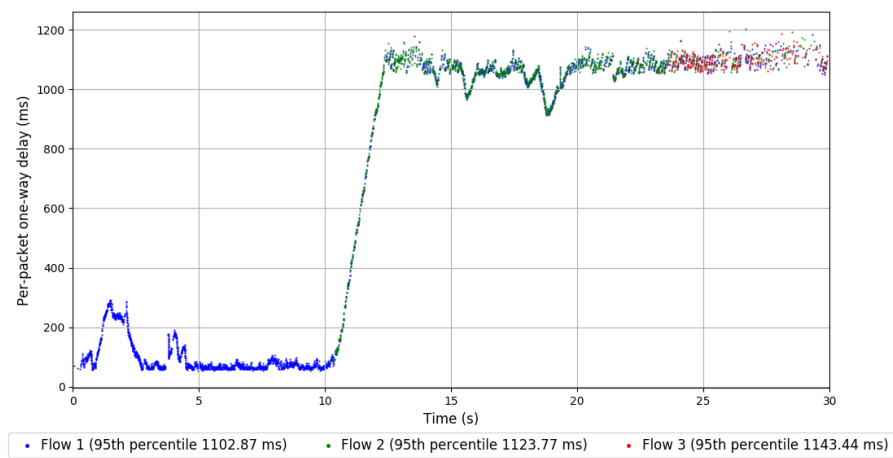
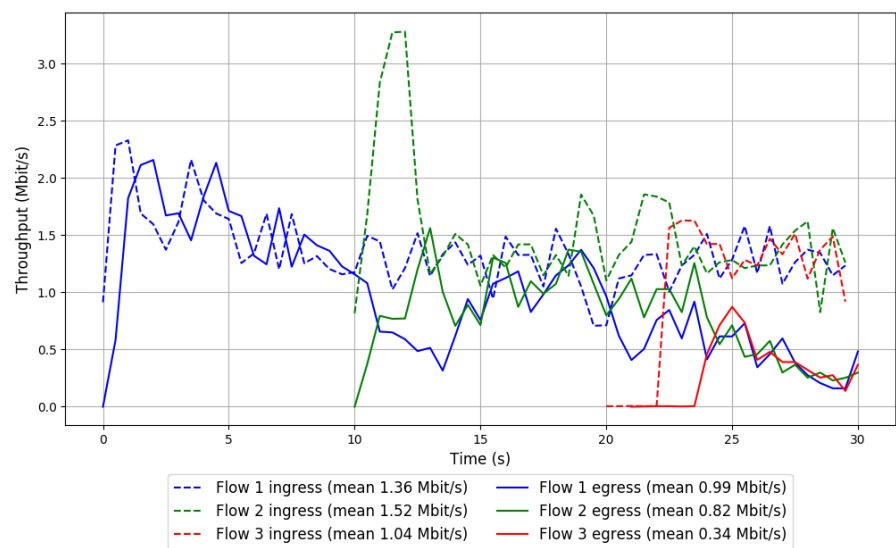
-- Flow 3:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 1143.443 ms

Loss rate: 71.65%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-06-05 10:40:31

End at: 2018-06-05 10:41:01

Local clock offset: 2.891 ms

Remote clock offset: 0.244 ms

Below is generated by plot.py at 2018-06-05 10:54:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 1109.391 ms

Loss rate: 33.65%

-- Flow 1:

Average throughput: 1.04 Mbit/s

95th percentile per-packet one-way delay: 1102.401 ms

Loss rate: 24.15%

-- Flow 2:

Average throughput: 0.82 Mbit/s

95th percentile per-packet one-way delay: 1114.844 ms

Loss rate: 39.01%

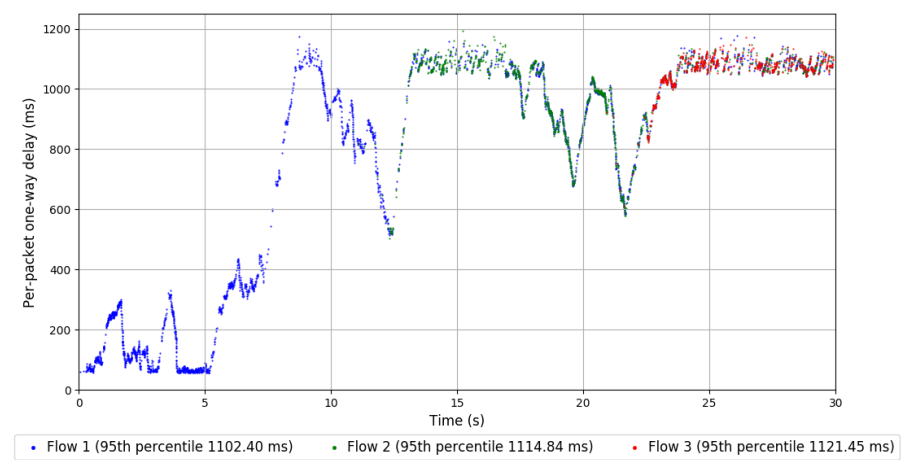
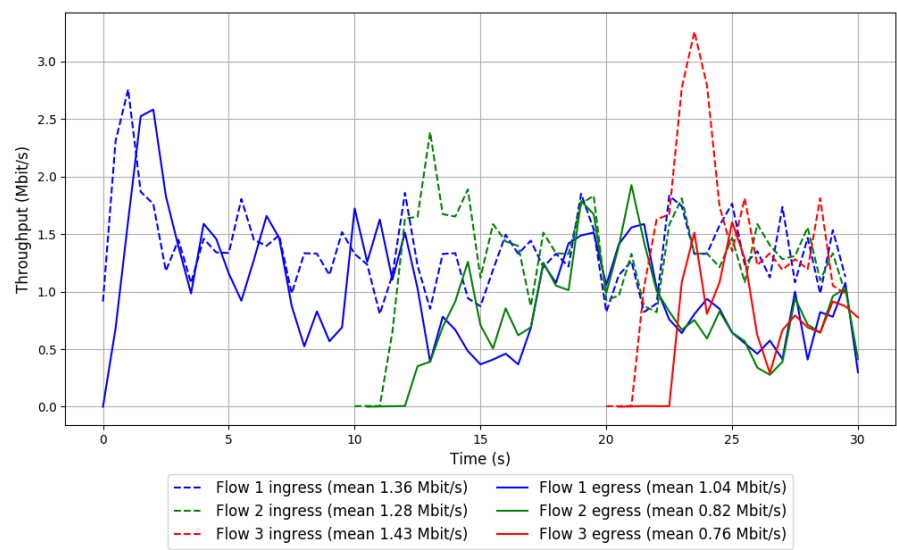
-- Flow 3:

Average throughput: 0.76 Mbit/s

95th percentile per-packet one-way delay: 1121.455 ms

Loss rate: 51.48%

Run 3: Report of PCC-Vivace — Data Link

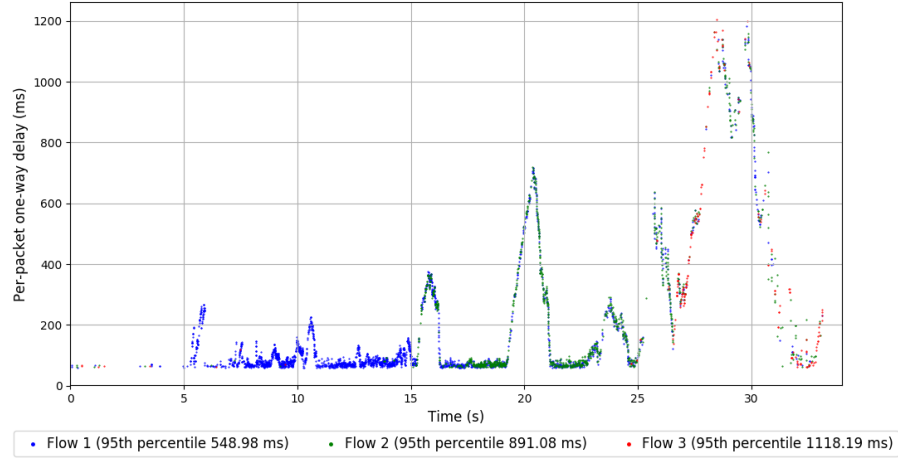
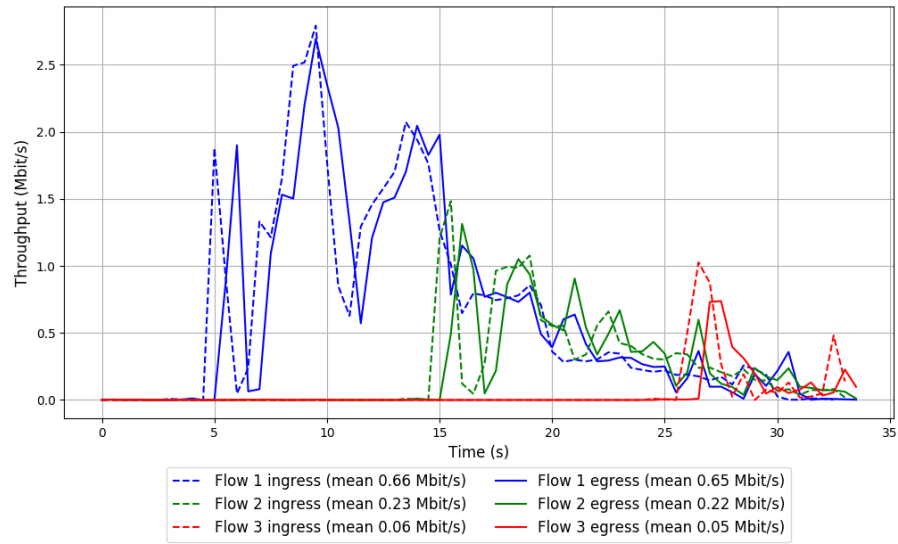


Run 1: Statistics of WebRTC media

Start at: 2018-06-05 10:13:55
End at: 2018-06-05 10:14:25
Local clock offset: -1.241 ms
Remote clock offset: 11.166 ms

Below is generated by plot.py at 2018-06-05 10:54:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.92 Mbit/s
95th percentile per-packet one-way delay: 684.469 ms
Loss rate: 1.98%
-- Flow 1:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 548.980 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 891.081 ms
Loss rate: 2.55%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1118.189 ms
Loss rate: 16.96%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-06-05 10:31:35

End at: 2018-06-05 10:32:05

Local clock offset: -1.087 ms

Remote clock offset: 1.621 ms

Below is generated by plot.py at 2018-06-05 10:54:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.67 Mbit/s

95th percentile per-packet one-way delay: 466.280 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 450.284 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 540.590 ms

Loss rate: 1.34%

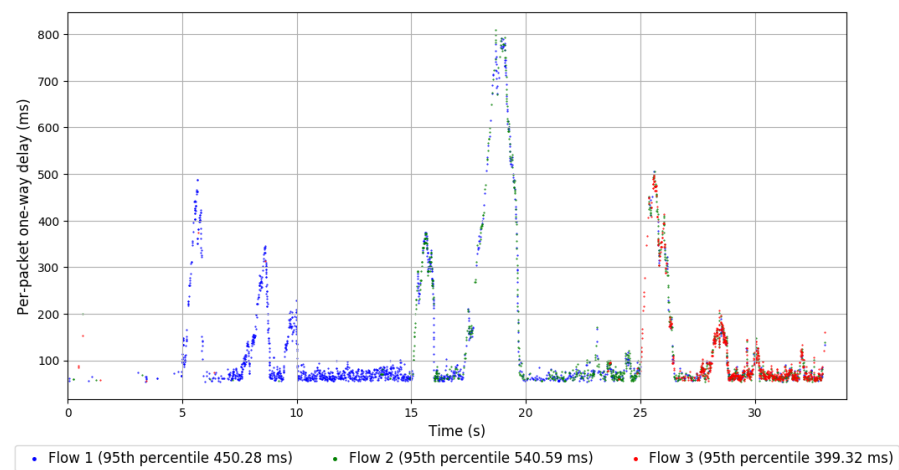
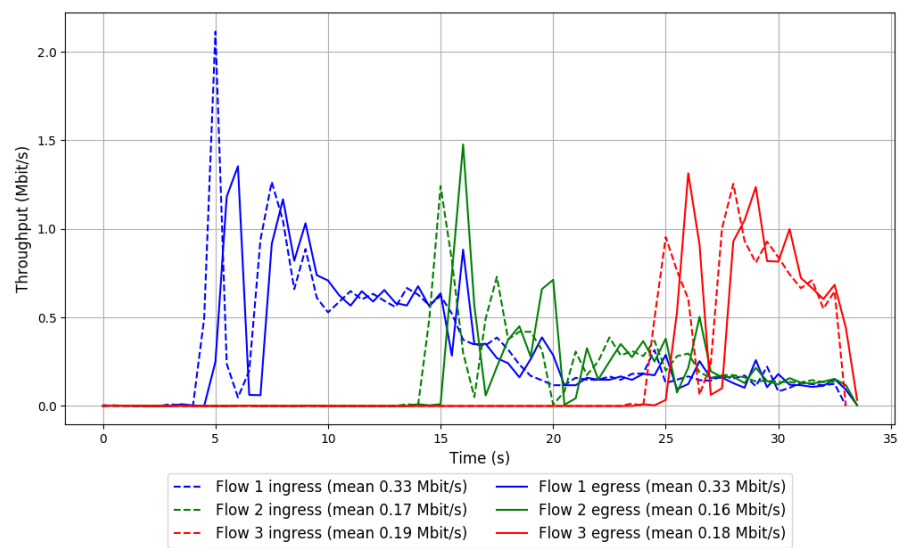
-- Flow 3:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 399.318 ms

Loss rate: 2.02%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-06-05 10:49:29
End at: 2018-06-05 10:49:59
Local clock offset: -2.254 ms
Remote clock offset: -1.643 ms

Below is generated by plot.py at 2018-06-05 10:54:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 916.795 ms
Loss rate: 5.19%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 1061.926 ms
Loss rate: 6.62%
-- Flow 2:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 740.278 ms
Loss rate: 7.37%
-- Flow 3:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 491.763 ms
Loss rate: 0.96%

Run 3: Report of WebRTC media — Data Link

