

Pantheon Report

Generated at 2018-06-06 09:13:10 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

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

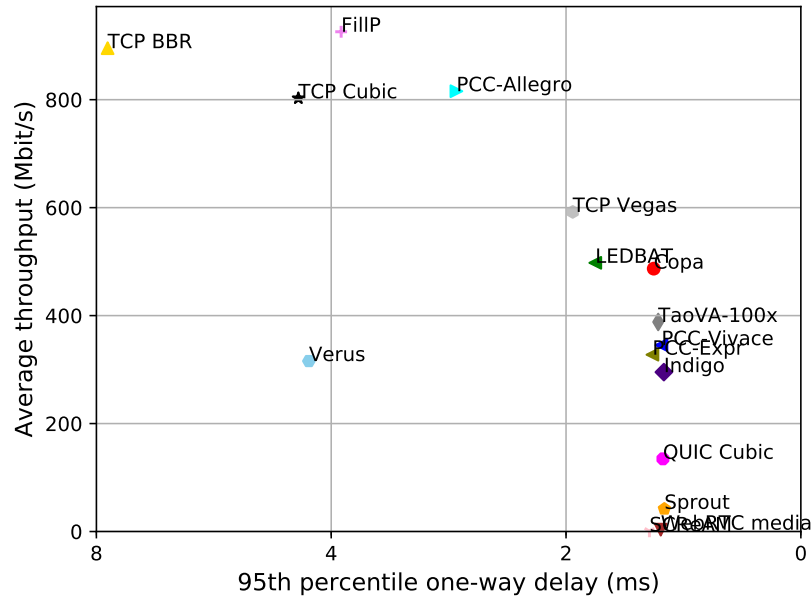
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

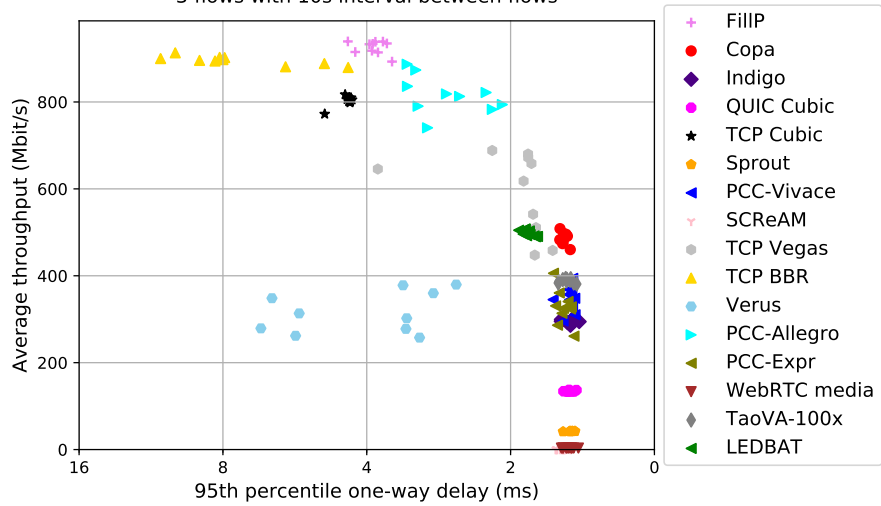
Git summary:

```
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-quick @ 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 Stanford to AWS California 1, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	525.75	393.76	323.77	8.40	4.39	4.46	0.05	0.09	0.22
Copa	10	295.12	221.69	133.85	1.26	1.24	1.28	0.03	0.06	0.20
TCP Cubic	10	436.52	390.55	319.12	4.36	4.42	4.50	0.06	0.09	0.23
FillP	10	569.32	388.21	297.57	4.65	3.95	4.12	0.07	0.09	0.23
Indigo	10	157.99	151.89	110.39	1.16	1.17	1.19	0.06	0.07	0.18
LEDBAT	10	287.32	228.04	176.86	1.65	1.88	1.85	0.04	0.09	0.27
PCC-Allegro	10	581.69	268.08	170.50	2.70	2.74	2.45	0.02	0.08	0.23
PCC-Expr	10	241.83	126.23	67.78	1.27	1.28	1.21	0.02	0.07	0.23
QUIC Cubic	10	72.99	65.52	54.54	1.17	1.17	1.18	0.05	0.10	0.22
SCReAM	10	0.22	0.22	0.22	1.29	1.28	1.28	0.07	0.17	0.32
Sprout	10	21.12	21.04	20.93	1.16	1.17	1.16	0.05	0.07	0.30
TaoVA-100x	10	218.04	195.12	121.42	1.19	1.21	1.37	0.04	0.06	0.18
TCP Vegas	10	290.04	297.35	313.36	1.74	1.89	2.07	0.06	0.08	0.20
Verus	10	184.73	146.87	102.20	4.99	2.22	2.10	0.03	0.09	0.26
PCC-Vivace	10	247.48	107.18	80.72	1.19	1.18	1.19	0.03	0.10	0.34
WebRTC media	10	1.70	1.21	0.52	1.19	1.19	1.20	0.04	0.03	0.15

Run 1: Statistics of TCP BBR

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

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

Local clock offset: 0.235 ms

Remote clock offset: 0.22 ms

Below is generated by plot.py at 2018-06-06 07:27:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 879.40 Mbit/s

95th percentile per-packet one-way delay: 4.375 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 508.55 Mbit/s

95th percentile per-packet one-way delay: 4.350 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 393.49 Mbit/s

95th percentile per-packet one-way delay: 4.352 ms

Loss rate: 0.09%

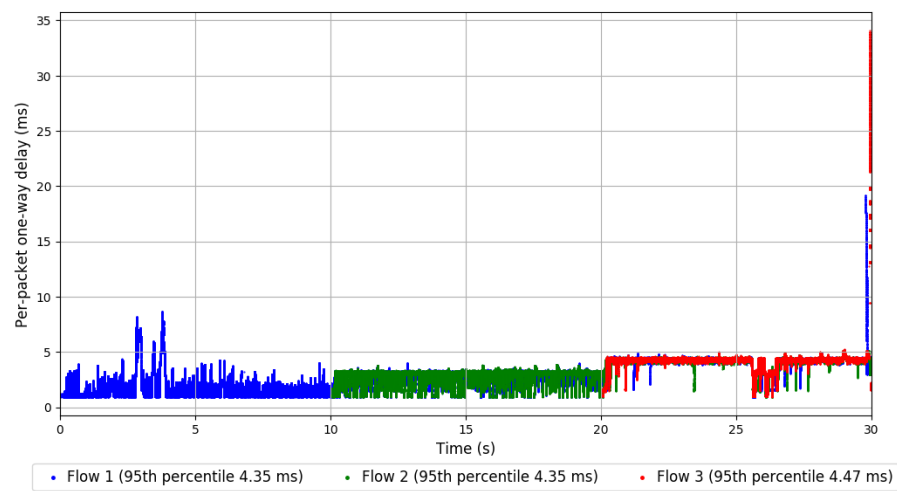
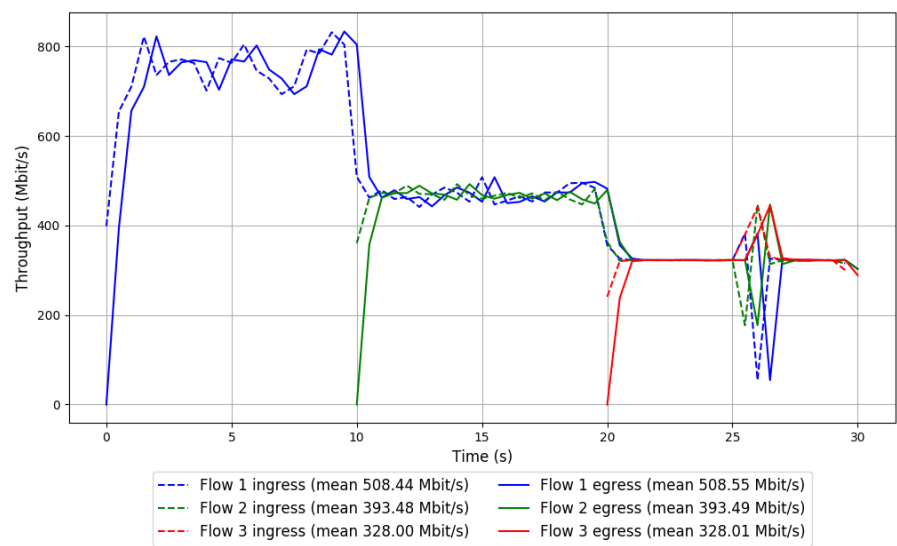
-- Flow 3:

Average throughput: 328.01 Mbit/s

95th percentile per-packet one-way delay: 4.470 ms

Loss rate: 0.22%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-06-06 03:31:36

End at: 2018-06-06 03:32:06

Local clock offset: 0.567 ms

Remote clock offset: 0.767 ms

Below is generated by plot.py at 2018-06-06 07:27:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 888.39 Mbit/s

95th percentile per-packet one-way delay: 4.906 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 517.53 Mbit/s

95th percentile per-packet one-way delay: 6.339 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 395.37 Mbit/s

95th percentile per-packet one-way delay: 4.402 ms

Loss rate: 0.09%

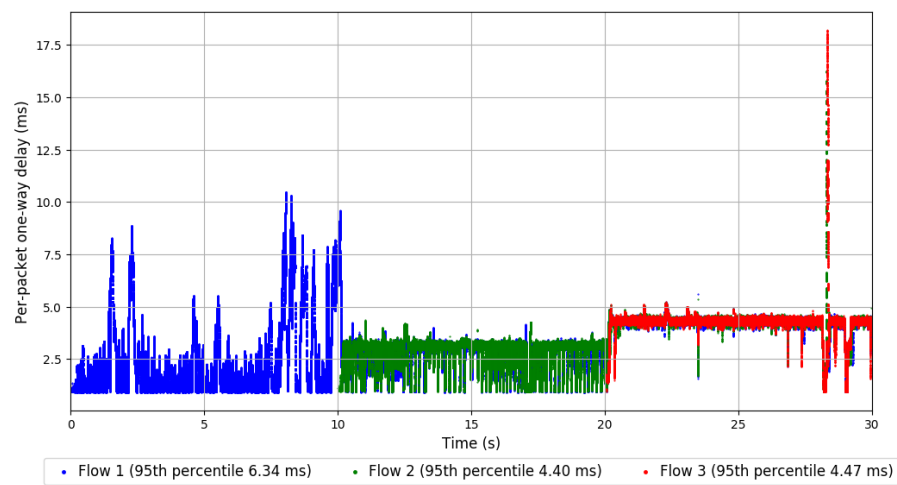
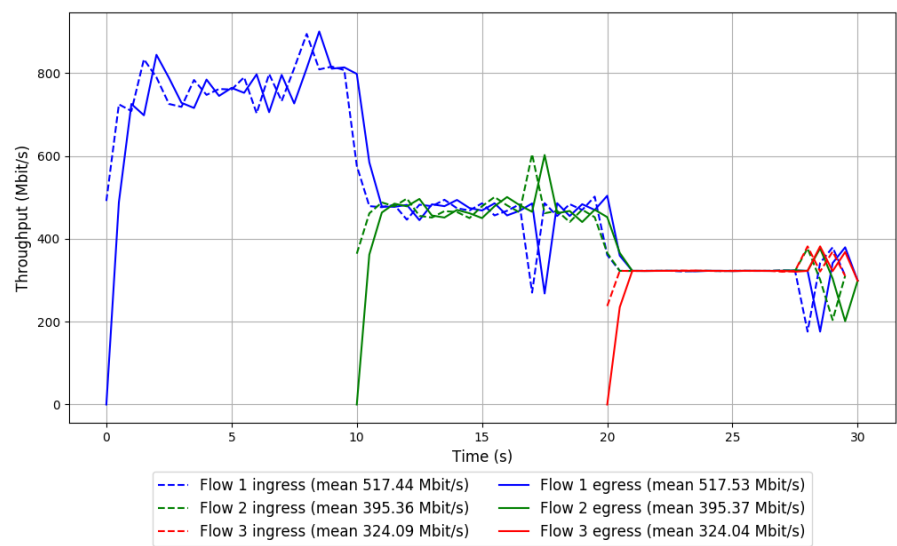
-- Flow 3:

Average throughput: 324.04 Mbit/s

95th percentile per-packet one-way delay: 4.466 ms

Loss rate: 0.22%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-06-06 03:56:49

End at: 2018-06-06 03:57:19

Local clock offset: 1.025 ms

Remote clock offset: 0.324 ms

Below is generated by plot.py at 2018-06-06 07:27:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 895.68 Mbit/s

95th percentile per-packet one-way delay: 8.954 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 524.97 Mbit/s

95th percentile per-packet one-way delay: 9.730 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 394.32 Mbit/s

95th percentile per-packet one-way delay: 4.412 ms

Loss rate: 0.09%

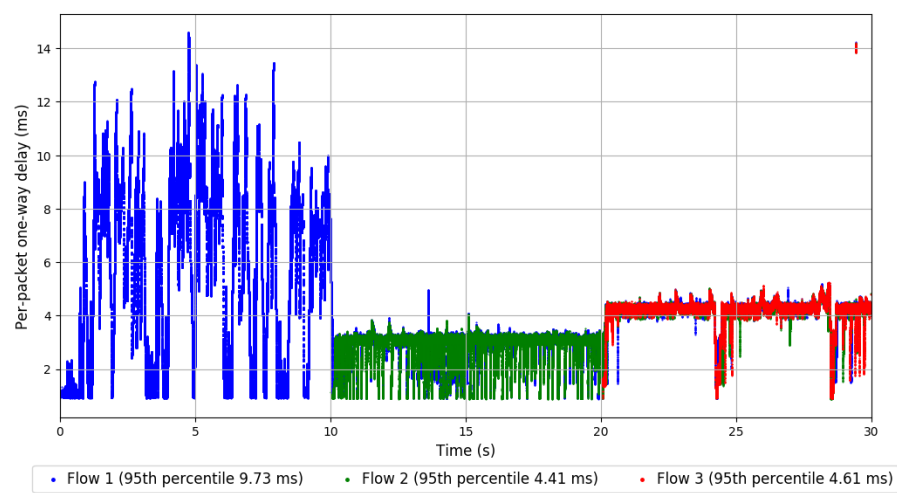
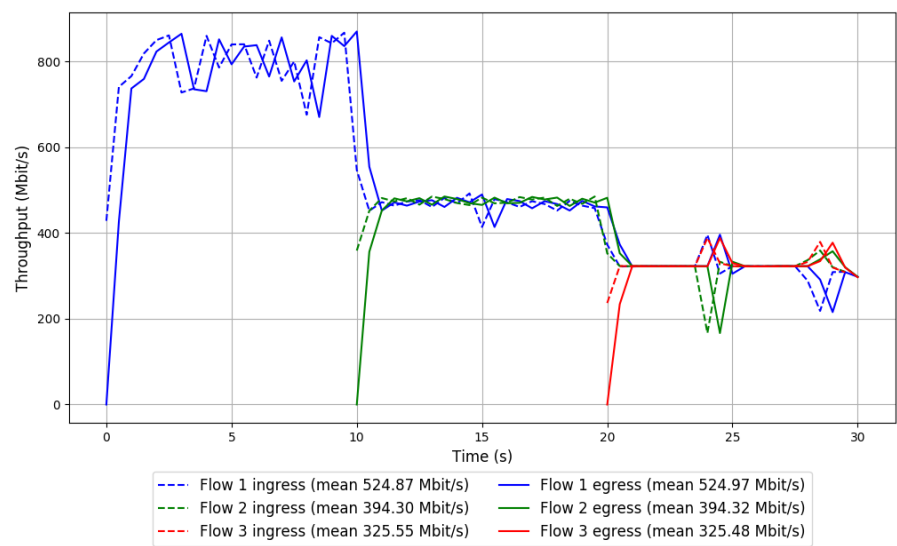
-- Flow 3:

Average throughput: 325.48 Mbit/s

95th percentile per-packet one-way delay: 4.614 ms

Loss rate: 0.22%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-06-06 04:22:08

End at: 2018-06-06 04:22:38

Local clock offset: 1.671 ms

Remote clock offset: 0.186 ms

Below is generated by plot.py at 2018-06-06 07:28:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 913.11 Mbit/s

95th percentile per-packet one-way delay: 10.065 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 543.73 Mbit/s

95th percentile per-packet one-way delay: 10.617 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 393.12 Mbit/s

95th percentile per-packet one-way delay: 4.455 ms

Loss rate: 0.09%

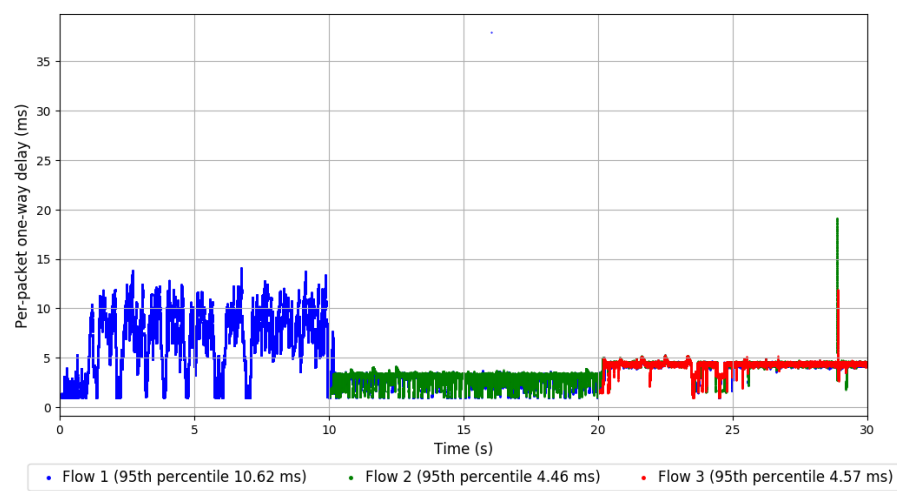
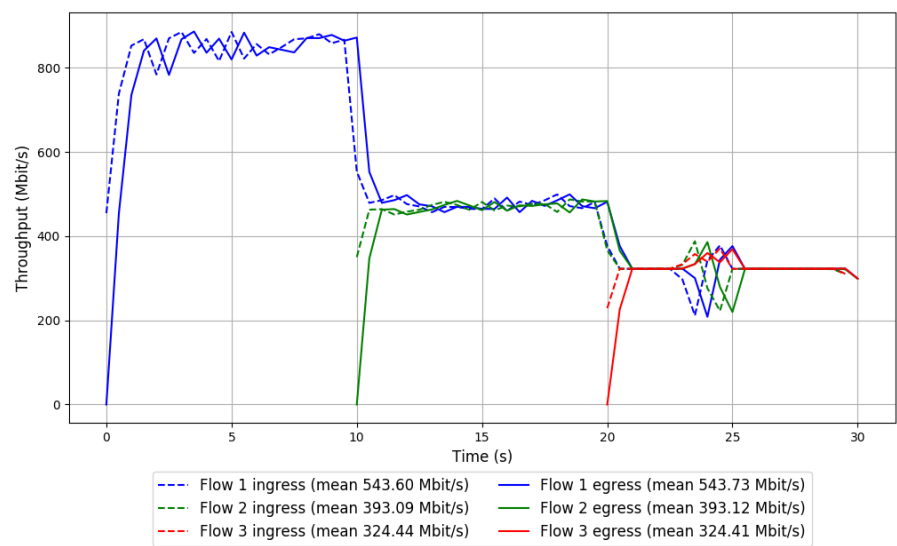
-- Flow 3:

Average throughput: 324.41 Mbit/s

95th percentile per-packet one-way delay: 4.566 ms

Loss rate: 0.22%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-06-06 04:47:26

End at: 2018-06-06 04:47:56

Local clock offset: 1.863 ms

Remote clock offset: 0.107 ms

Below is generated by plot.py at 2018-06-06 07:28:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 899.92 Mbit/s

95th percentile per-packet one-way delay: 10.803 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 532.19 Mbit/s

95th percentile per-packet one-way delay: 11.086 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 393.12 Mbit/s

95th percentile per-packet one-way delay: 4.393 ms

Loss rate: 0.10%

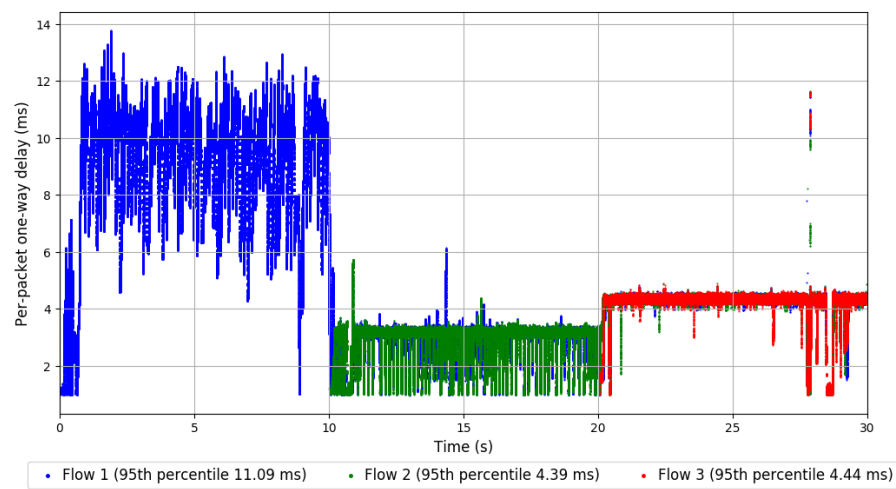
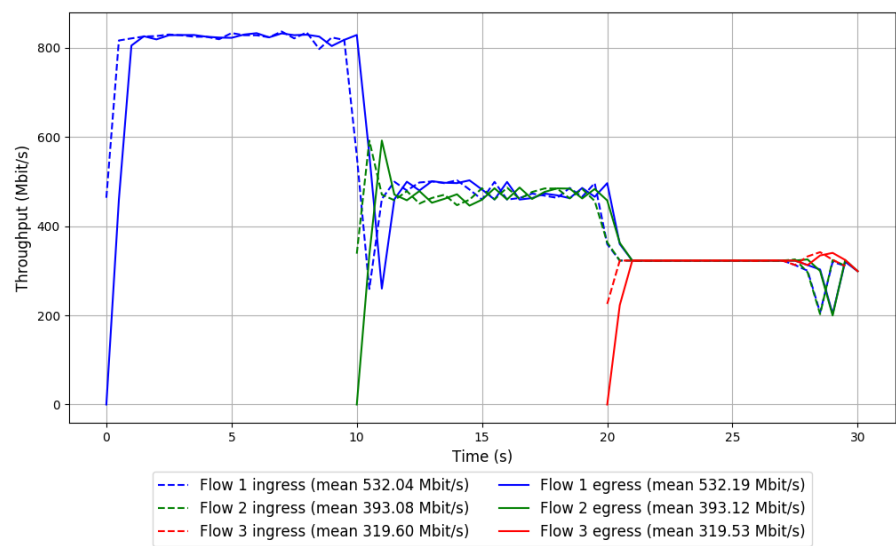
-- Flow 3:

Average throughput: 319.53 Mbit/s

95th percentile per-packet one-way delay: 4.443 ms

Loss rate: 0.23%

Run 5: Report of TCP BBR — Data Link

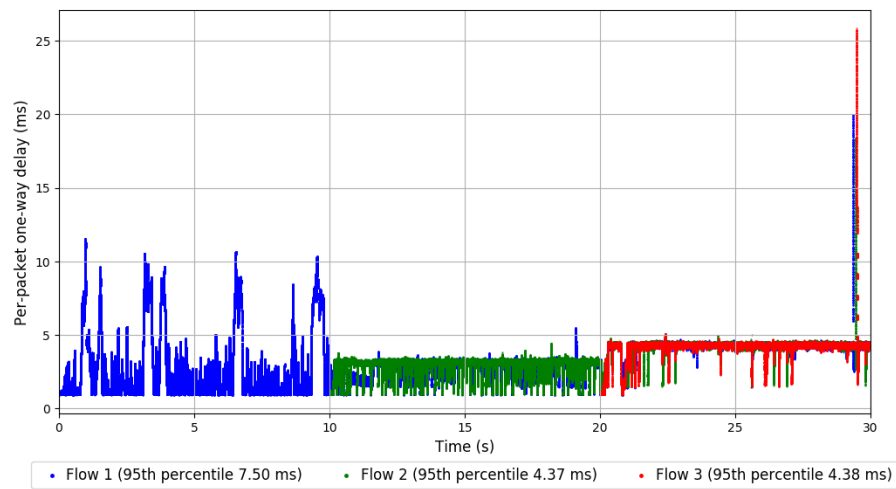
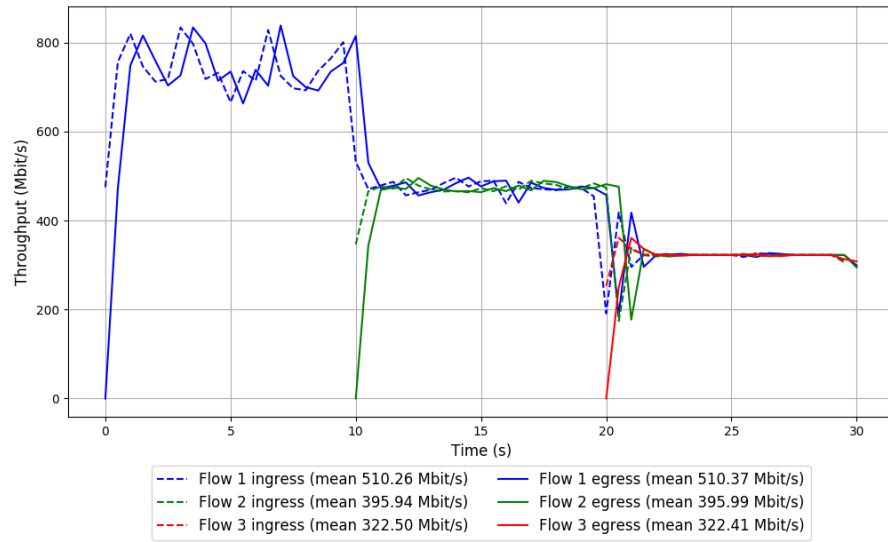


Run 6: Statistics of TCP BBR

Start at: 2018-06-06 05:12:34
End at: 2018-06-06 05:13:04
Local clock offset: 2.334 ms
Remote clock offset: -0.486 ms

Below is generated by plot.py at 2018-06-06 07:28:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 881.04 Mbit/s
95th percentile per-packet one-way delay: 5.916 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 510.37 Mbit/s
95th percentile per-packet one-way delay: 7.497 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 395.99 Mbit/s
95th percentile per-packet one-way delay: 4.365 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 322.41 Mbit/s
95th percentile per-packet one-way delay: 4.381 ms
Loss rate: 0.22%

Run 6: Report of TCP BBR — Data Link

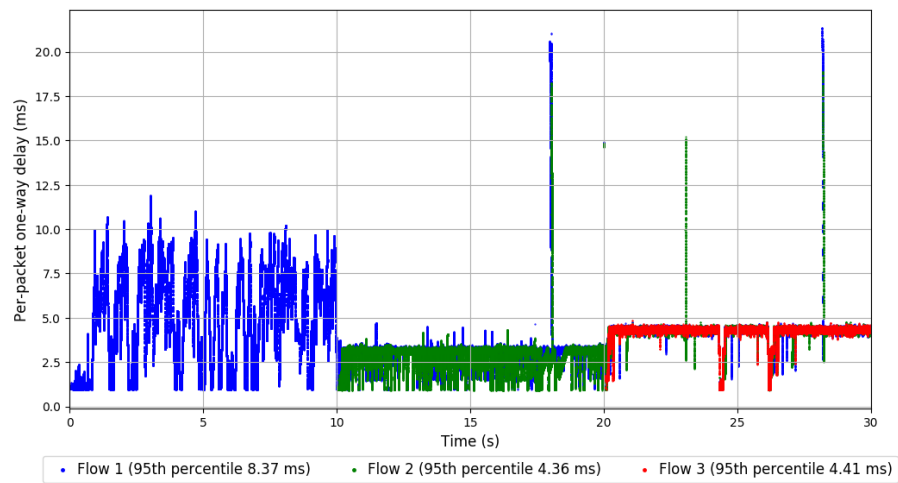
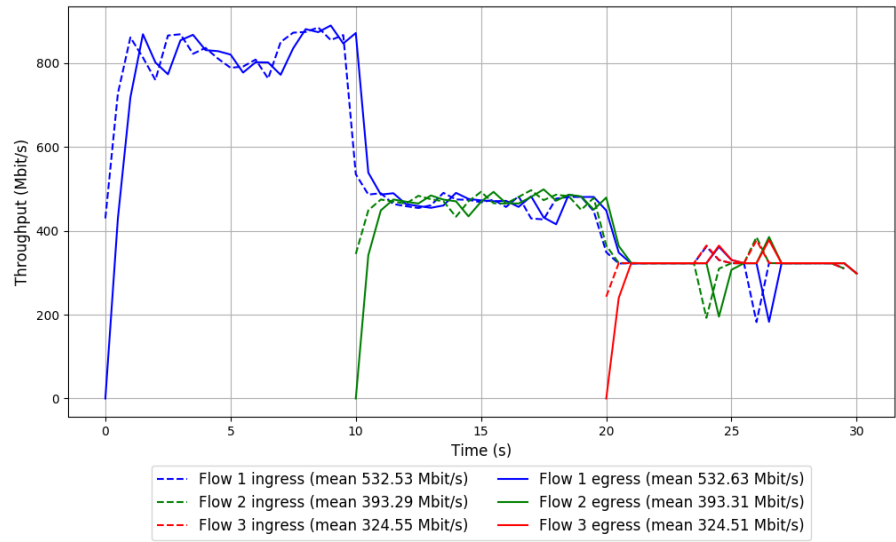


Run 7: Statistics of TCP BBR

Start at: 2018-06-06 05:37:59
End at: 2018-06-06 05:38:29
Local clock offset: 1.916 ms
Remote clock offset: -0.514 ms

Below is generated by plot.py at 2018-06-06 07:28:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 902.19 Mbit/s
95th percentile per-packet one-way delay: 7.934 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 532.63 Mbit/s
95th percentile per-packet one-way delay: 8.368 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 393.31 Mbit/s
95th percentile per-packet one-way delay: 4.364 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 324.51 Mbit/s
95th percentile per-packet one-way delay: 4.408 ms
Loss rate: 0.22%

Run 7: Report of TCP BBR — Data Link

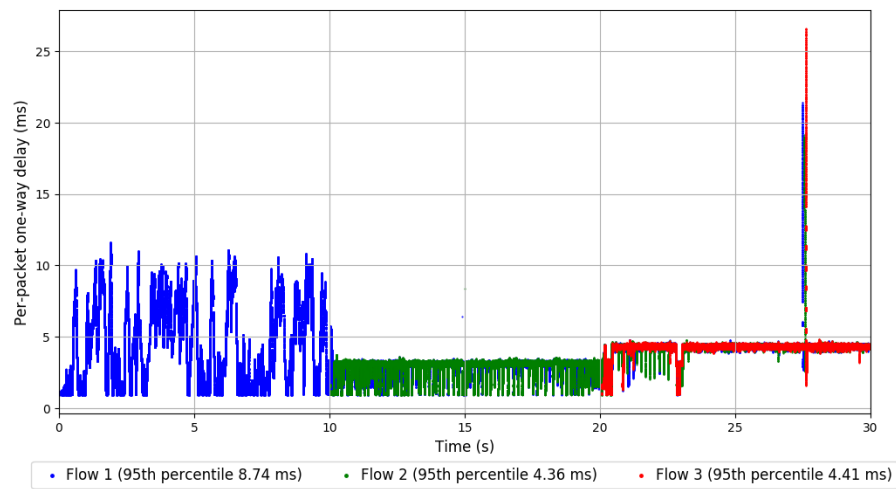
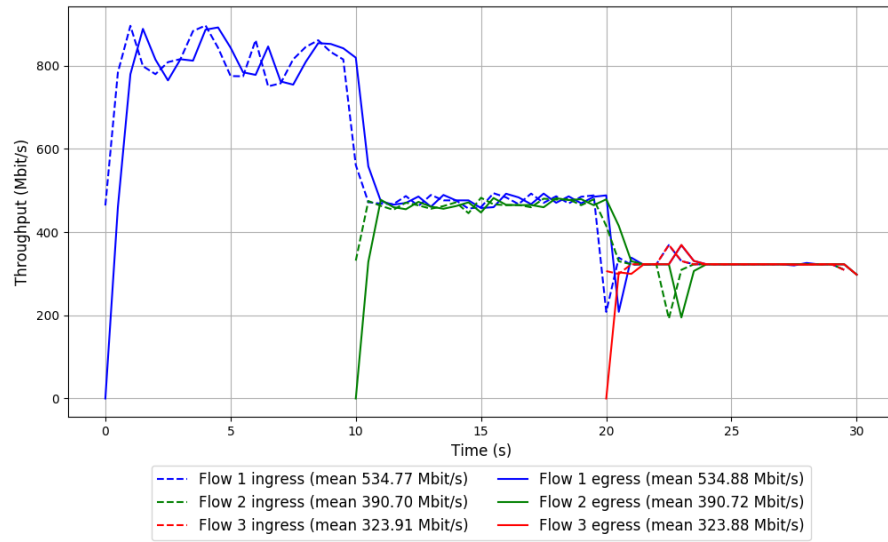


Run 8: Statistics of TCP BBR

Start at: 2018-06-06 06:03:14
End at: 2018-06-06 06:03:44
Local clock offset: 1.429 ms
Remote clock offset: -0.203 ms

Below is generated by plot.py at 2018-06-06 07:28:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 902.61 Mbit/s
95th percentile per-packet one-way delay: 8.128 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 534.88 Mbit/s
95th percentile per-packet one-way delay: 8.744 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 390.72 Mbit/s
95th percentile per-packet one-way delay: 4.363 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 323.88 Mbit/s
95th percentile per-packet one-way delay: 4.409 ms
Loss rate: 0.22%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-06-06 06:28:37

End at: 2018-06-06 06:29:07

Local clock offset: 0.426 ms

Remote clock offset: 0.104 ms

Below is generated by plot.py at 2018-06-06 07:37:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 894.28 Mbit/s

95th percentile per-packet one-way delay: 8.310 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 524.87 Mbit/s

95th percentile per-packet one-way delay: 8.820 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 394.40 Mbit/s

95th percentile per-packet one-way delay: 4.465 ms

Loss rate: 0.09%

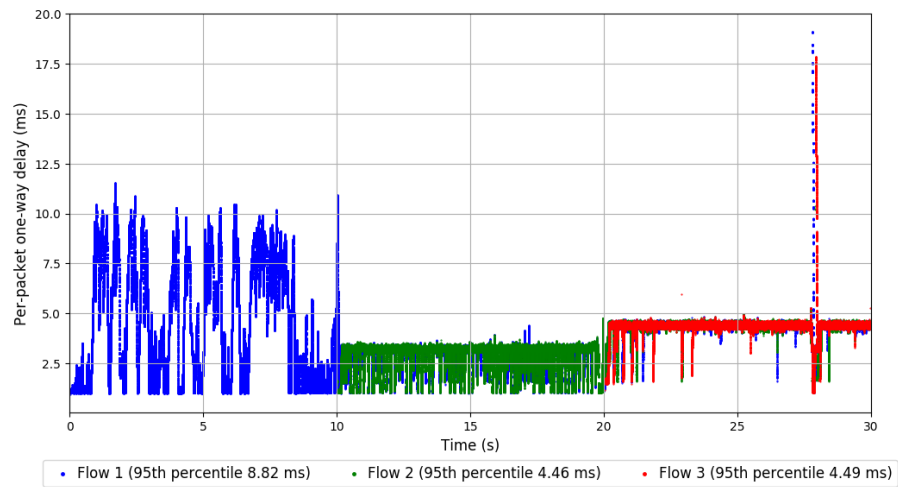
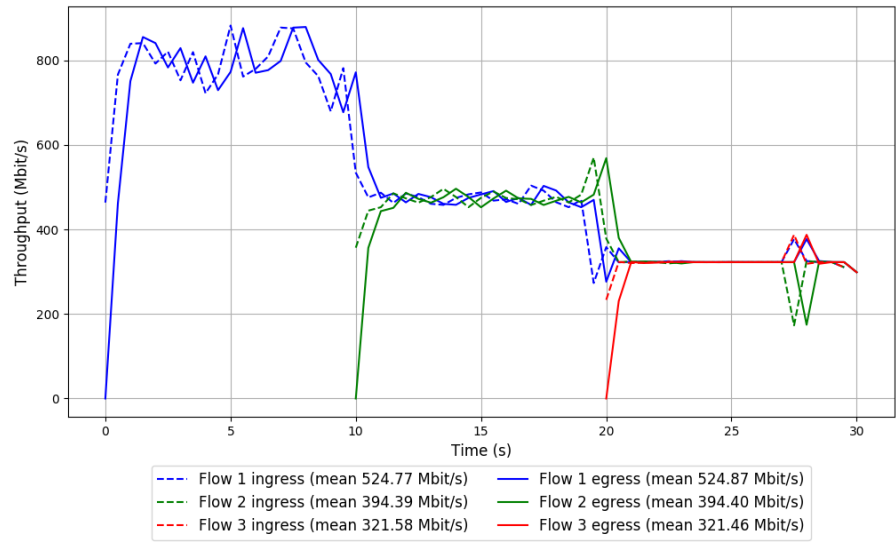
-- Flow 3:

Average throughput: 321.46 Mbit/s

95th percentile per-packet one-way delay: 4.494 ms

Loss rate: 0.23%

Run 9: Report of TCP BBR — Data Link

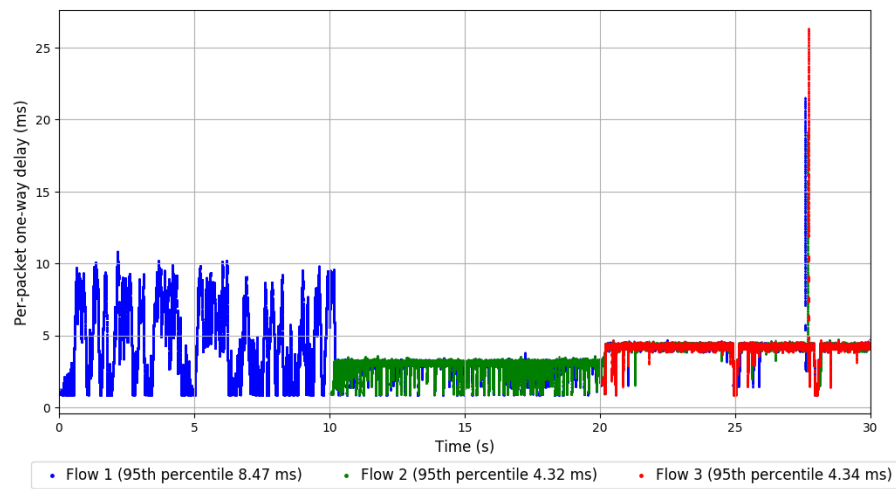
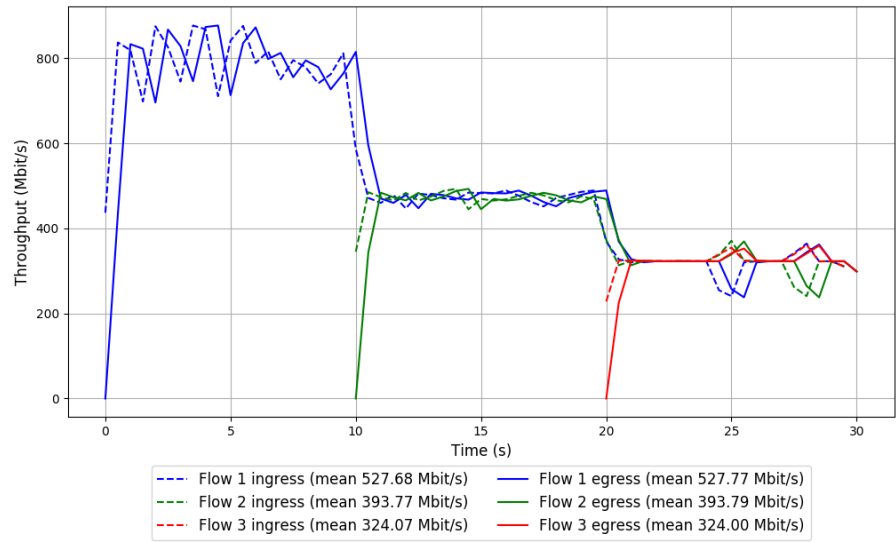


Run 10: Statistics of TCP BBR

Start at: 2018-06-06 06:53:52
End at: 2018-06-06 06:54:22
Local clock offset: -0.418 ms
Remote clock offset: -0.027 ms

Below is generated by plot.py at 2018-06-06 07:37:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 897.51 Mbit/s
95th percentile per-packet one-way delay: 8.000 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 527.77 Mbit/s
95th percentile per-packet one-way delay: 8.470 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 393.79 Mbit/s
95th percentile per-packet one-way delay: 4.317 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 324.00 Mbit/s
95th percentile per-packet one-way delay: 4.338 ms
Loss rate: 0.22%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-06-06 03:12:54

End at: 2018-06-06 03:13:24

Local clock offset: 0.397 ms

Remote clock offset: 0.207 ms

Below is generated by plot.py at 2018-06-06 07:37:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 489.81 Mbit/s

95th percentile per-packet one-way delay: 1.232 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 282.01 Mbit/s

95th percentile per-packet one-way delay: 1.234 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 236.53 Mbit/s

95th percentile per-packet one-way delay: 1.223 ms

Loss rate: 0.05%

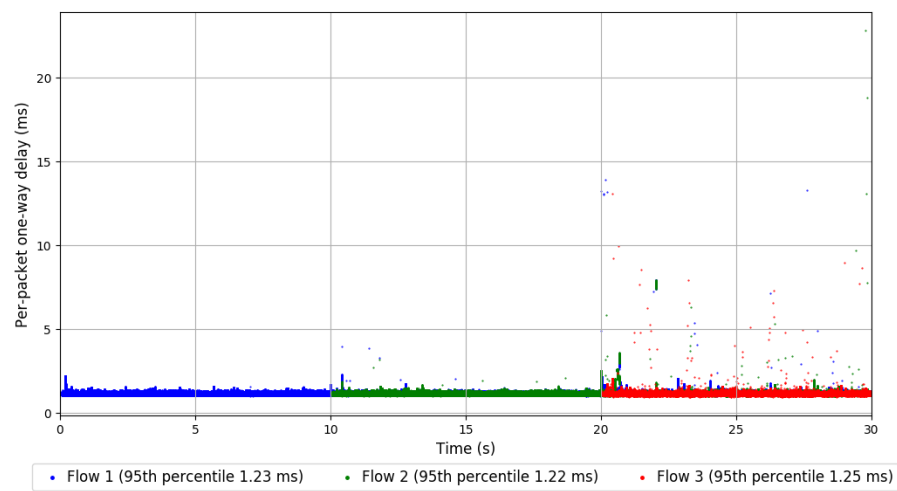
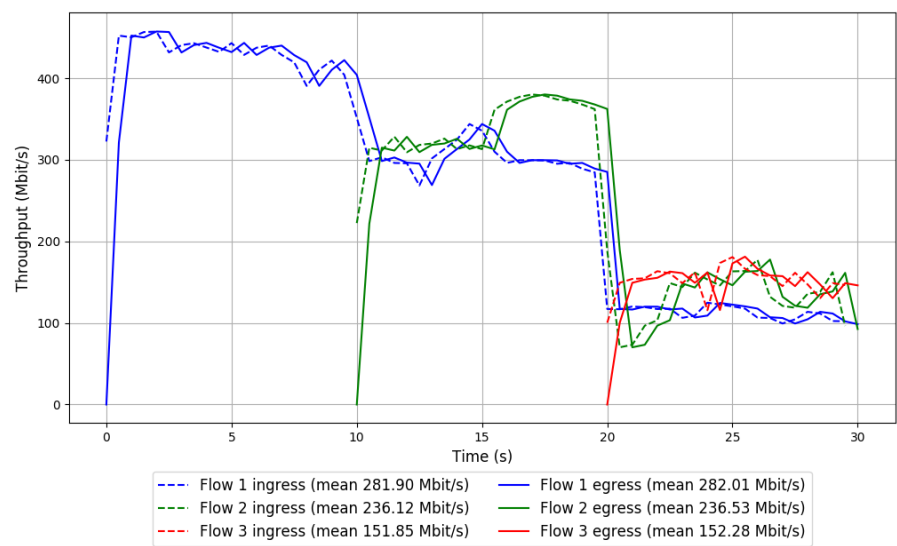
-- Flow 3:

Average throughput: 152.28 Mbit/s

95th percentile per-packet one-way delay: 1.248 ms

Loss rate: 0.01%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-06-06 03:38:12

End at: 2018-06-06 03:38:42

Local clock offset: 0.694 ms

Remote clock offset: 0.945 ms

Below is generated by plot.py at 2018-06-06 07:37:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 473.97 Mbit/s

95th percentile per-packet one-way delay: 1.277 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 293.62 Mbit/s

95th percentile per-packet one-way delay: 1.295 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 210.17 Mbit/s

95th percentile per-packet one-way delay: 1.226 ms

Loss rate: 0.04%

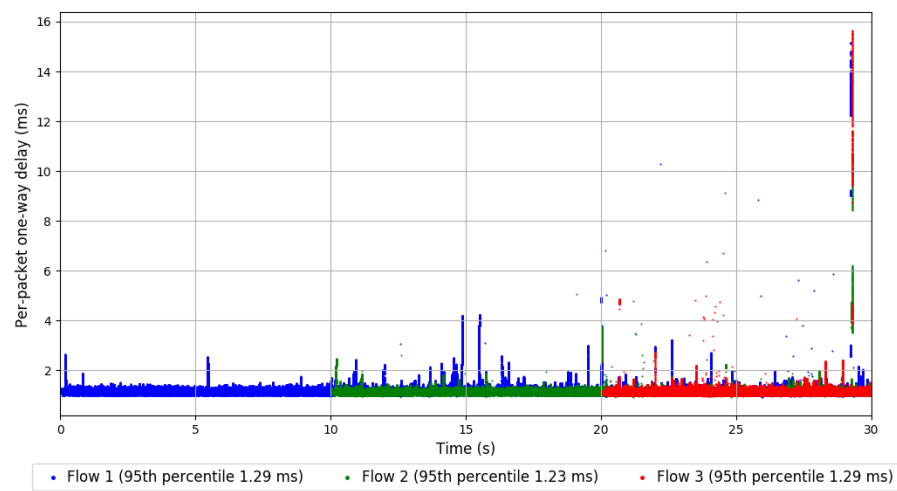
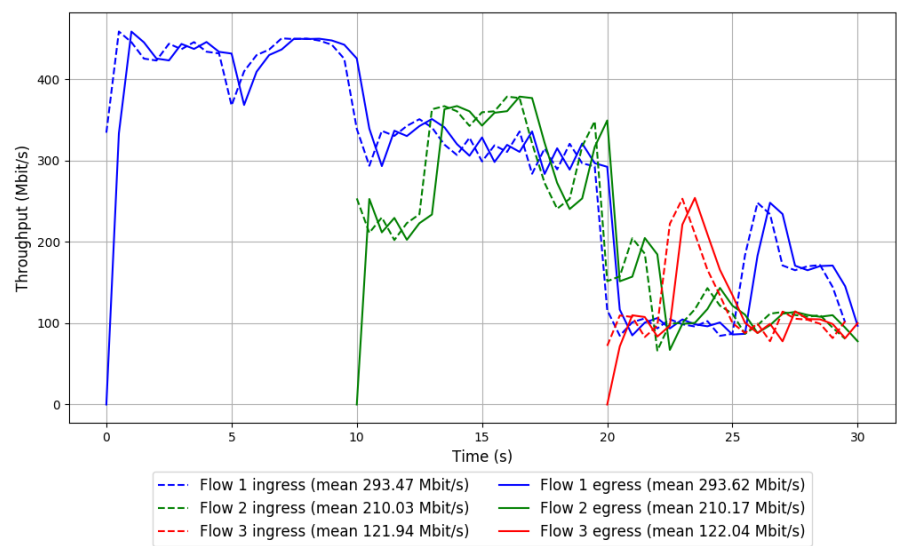
-- Flow 3:

Average throughput: 122.04 Mbit/s

95th percentile per-packet one-way delay: 1.295 ms

Loss rate: 0.11%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-06-06 04:03:26

End at: 2018-06-06 04:03:56

Local clock offset: 1.284 ms

Remote clock offset: 0.328 ms

Below is generated by plot.py at 2018-06-06 07:38:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 496.98 Mbit/s

95th percentile per-packet one-way delay: 1.256 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 291.41 Mbit/s

95th percentile per-packet one-way delay: 1.246 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 246.35 Mbit/s

95th percentile per-packet one-way delay: 1.267 ms

Loss rate: 0.06%

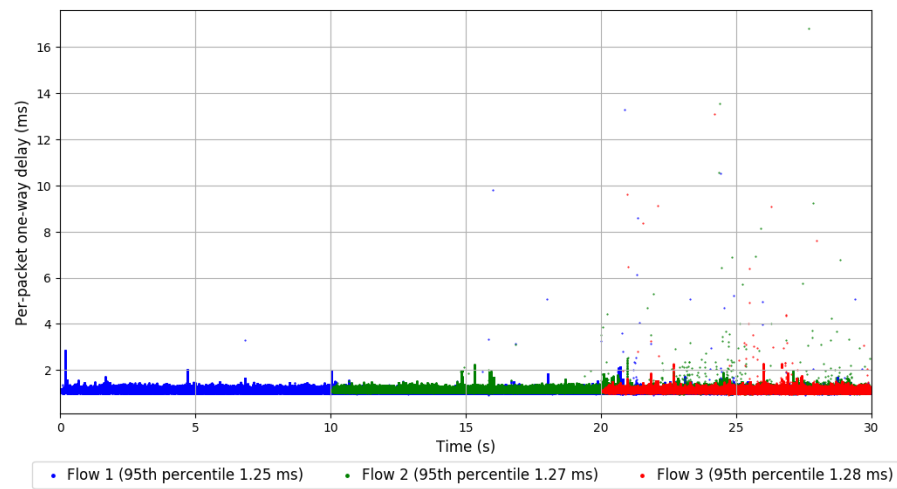
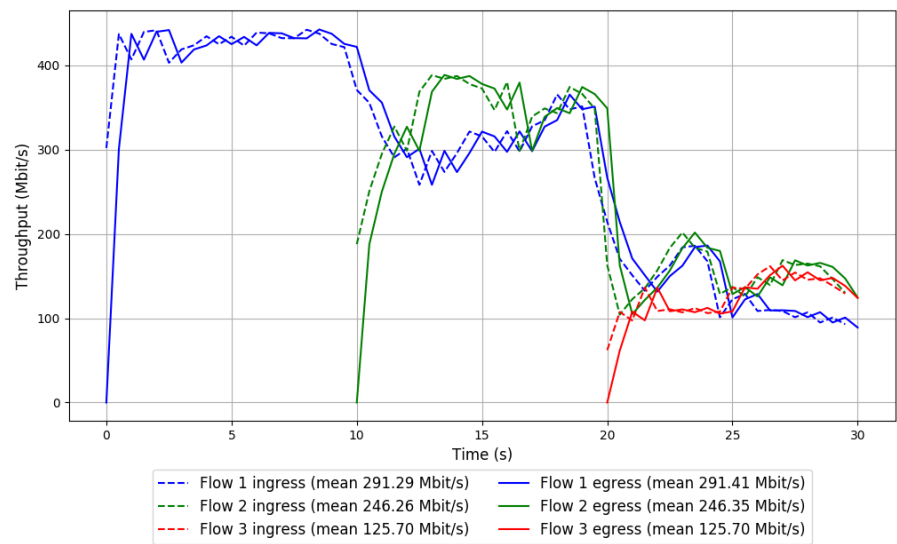
-- Flow 3:

Average throughput: 125.70 Mbit/s

95th percentile per-packet one-way delay: 1.277 ms

Loss rate: 0.23%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-06-06 04:28:47

End at: 2018-06-06 04:29:17

Local clock offset: 1.635 ms

Remote clock offset: 0.073 ms

Below is generated by plot.py at 2018-06-06 07:38:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 476.60 Mbit/s

95th percentile per-packet one-way delay: 1.270 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 300.28 Mbit/s

95th percentile per-packet one-way delay: 1.278 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 213.75 Mbit/s

95th percentile per-packet one-way delay: 1.225 ms

Loss rate: 0.05%

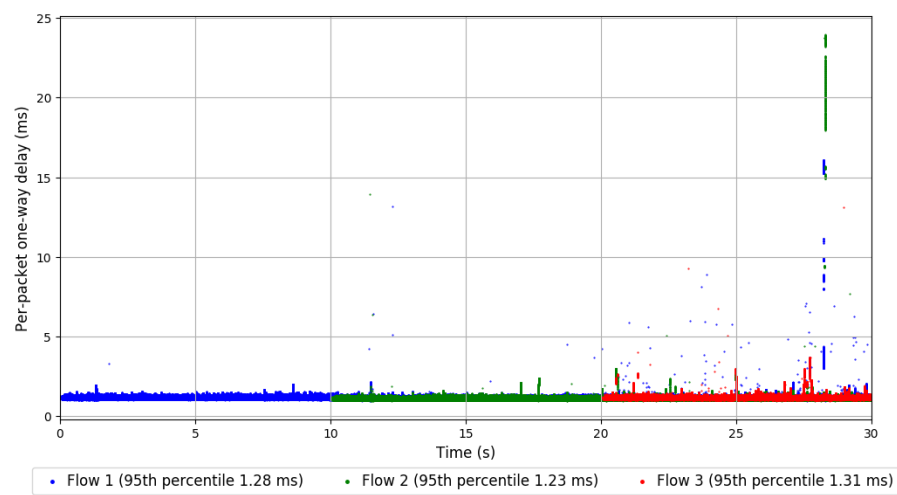
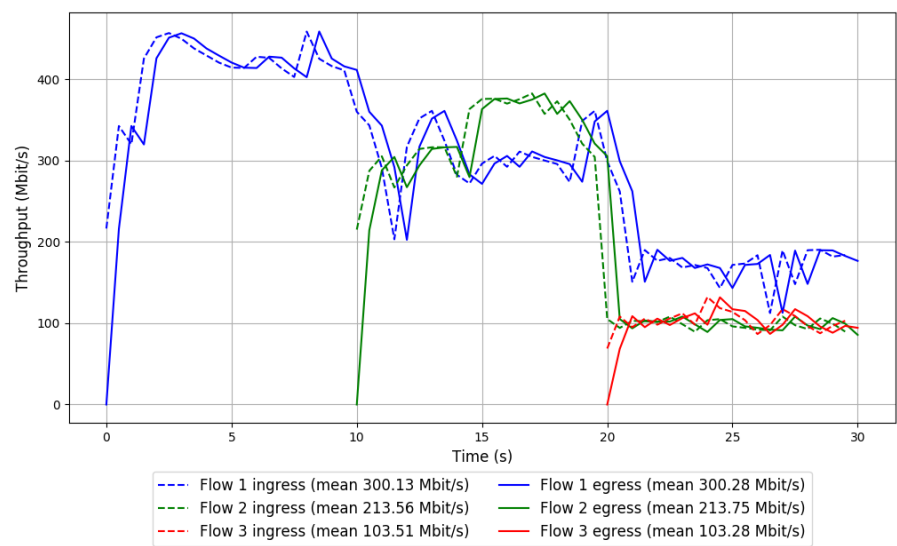
-- Flow 3:

Average throughput: 103.28 Mbit/s

95th percentile per-packet one-way delay: 1.315 ms

Loss rate: 0.42%

Run 4: Report of Copa — Data Link

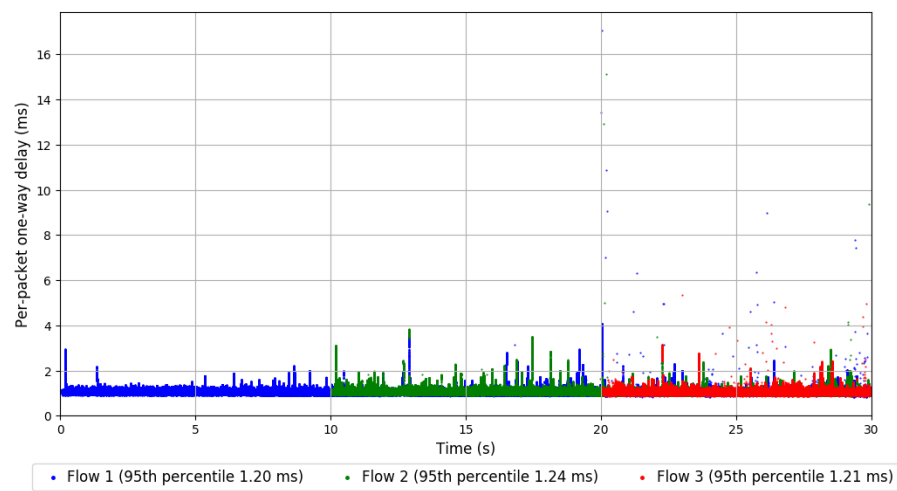
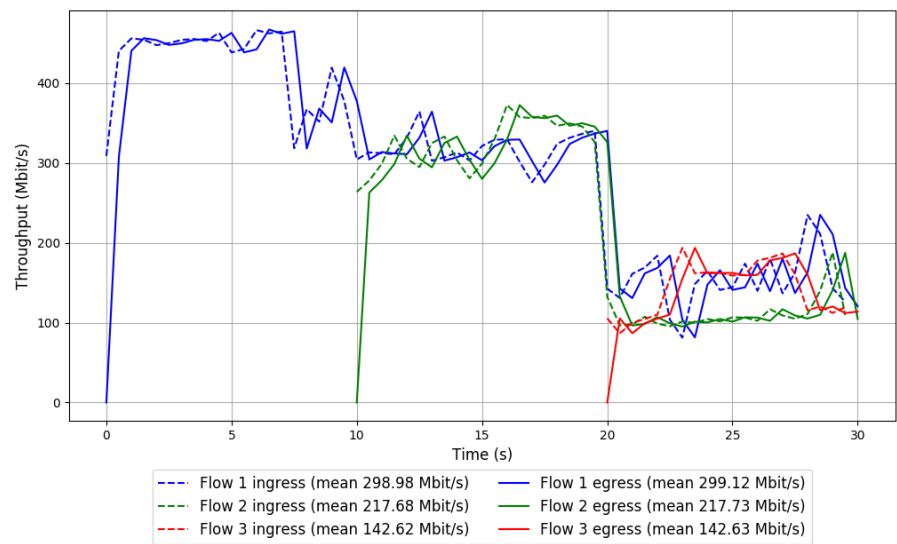


Run 5: Statistics of Copa

Start at: 2018-06-06 04:54:03
End at: 2018-06-06 04:54:33
Local clock offset: 1.973 ms
Remote clock offset: -0.156 ms

Below is generated by plot.py at 2018-06-06 07:38:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 491.33 Mbit/s
95th percentile per-packet one-way delay: 1.210 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 299.12 Mbit/s
95th percentile per-packet one-way delay: 1.199 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 217.73 Mbit/s
95th percentile per-packet one-way delay: 1.239 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 142.63 Mbit/s
95th percentile per-packet one-way delay: 1.209 ms
Loss rate: 0.20%

Run 5: Report of Copa — Data Link

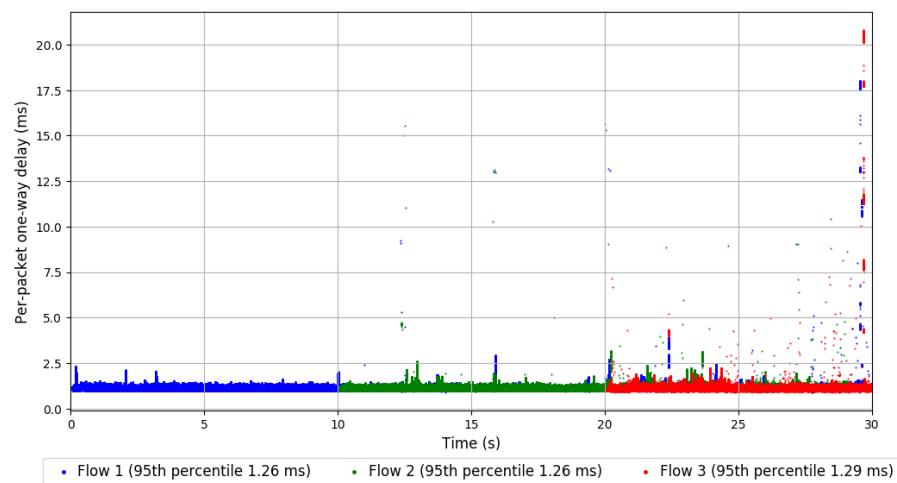
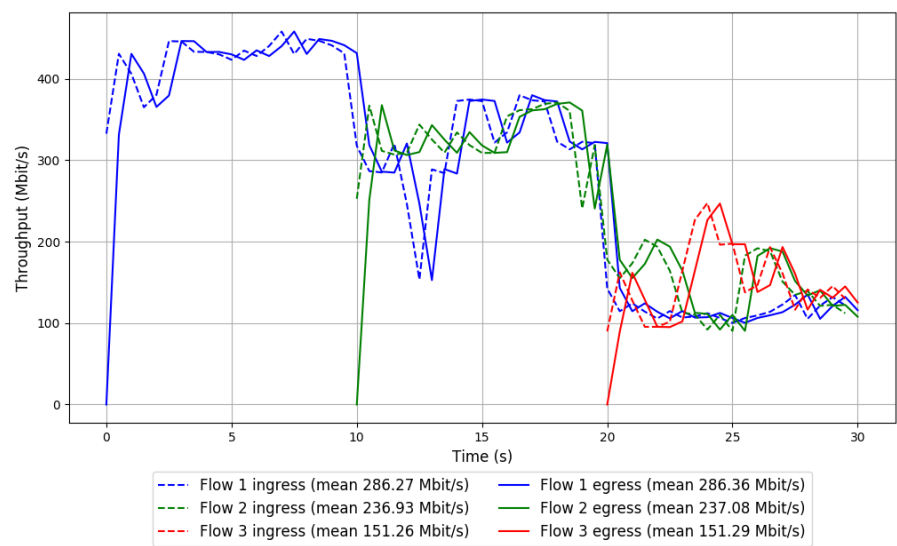


Run 6: Statistics of Copa

Start at: 2018-06-06 05:19:11
End at: 2018-06-06 05:19:41
Local clock offset: 2.466 ms
Remote clock offset: -0.582 ms

Below is generated by plot.py at 2018-06-06 07:38:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 494.27 Mbit/s
95th percentile per-packet one-way delay: 1.259 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 286.36 Mbit/s
95th percentile per-packet one-way delay: 1.257 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 237.08 Mbit/s
95th percentile per-packet one-way delay: 1.256 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 151.29 Mbit/s
95th percentile per-packet one-way delay: 1.288 ms
Loss rate: 0.19%

Run 6: Report of Copa — Data Link

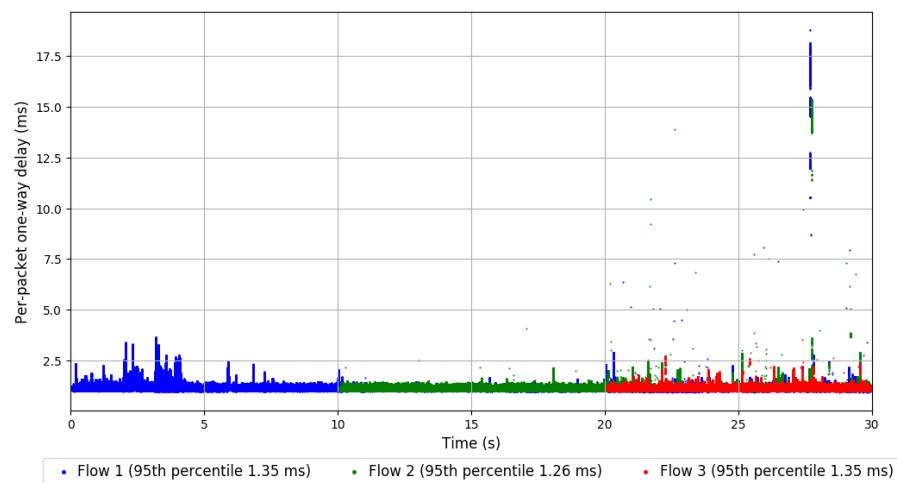
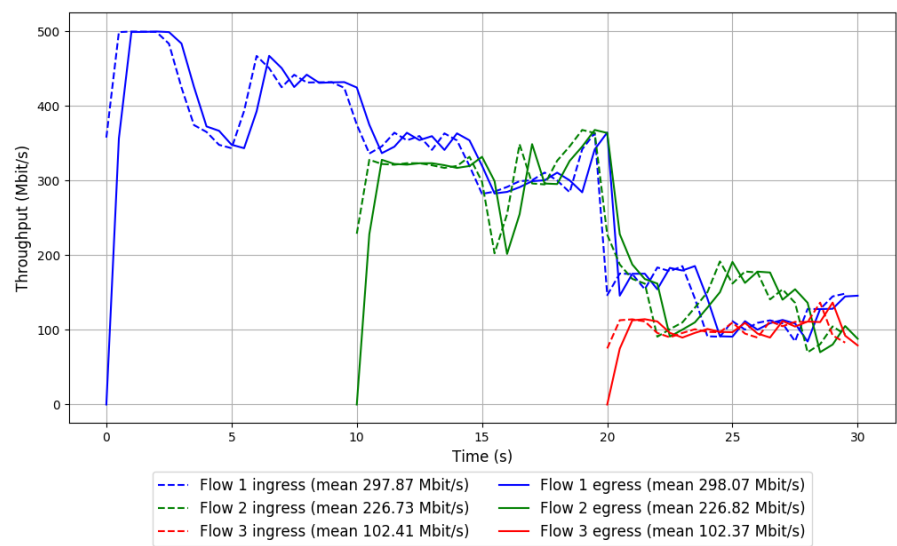


Run 7: Statistics of Copa

Start at: 2018-06-06 05:44:37
End at: 2018-06-06 05:45:07
Local clock offset: 1.991 ms
Remote clock offset: -0.499 ms

Below is generated by plot.py at 2018-06-06 07:47:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 482.87 Mbit/s
95th percentile per-packet one-way delay: 1.316 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 298.07 Mbit/s
95th percentile per-packet one-way delay: 1.347 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 226.82 Mbit/s
95th percentile per-packet one-way delay: 1.264 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 102.37 Mbit/s
95th percentile per-packet one-way delay: 1.346 ms
Loss rate: 0.20%

Run 7: Report of Copa — Data Link

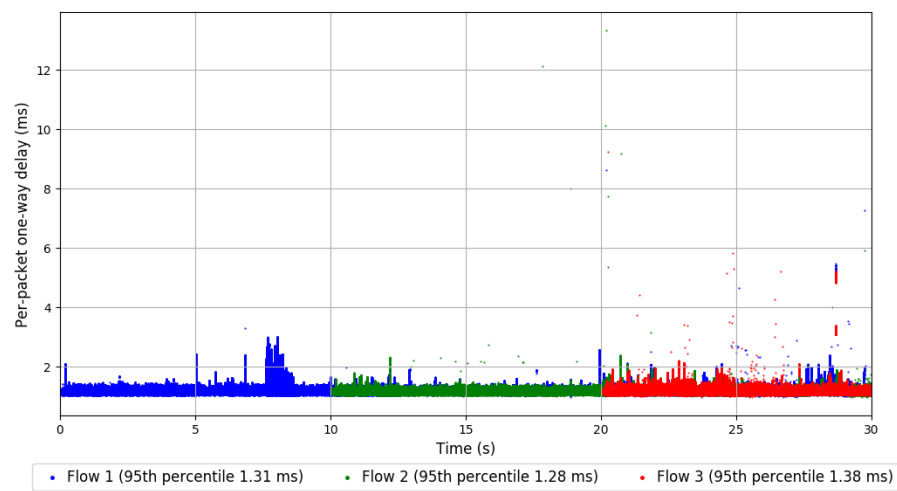
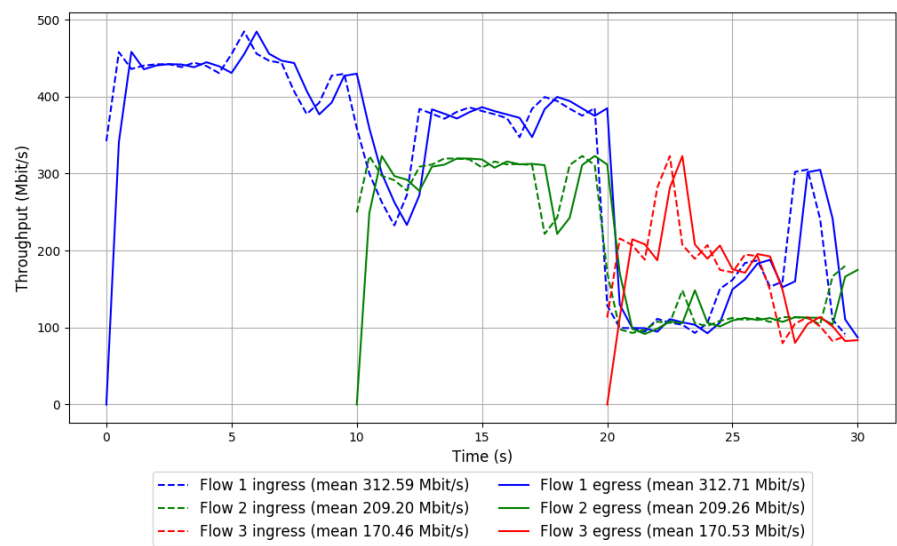


Run 8: Statistics of Copa

Start at: 2018-06-06 06:09:52
End at: 2018-06-06 06:10:22
Local clock offset: 1.449 ms
Remote clock offset: -0.067 ms

Below is generated by plot.py at 2018-06-06 07:48:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 508.43 Mbit/s
95th percentile per-packet one-way delay: 1.313 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 312.71 Mbit/s
95th percentile per-packet one-way delay: 1.315 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 209.26 Mbit/s
95th percentile per-packet one-way delay: 1.278 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 170.53 Mbit/s
95th percentile per-packet one-way delay: 1.378 ms
Loss rate: 0.15%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-06-06 06:35:16

End at: 2018-06-06 06:35:46

Local clock offset: 0.159 ms

Remote clock offset: 0.116 ms

Below is generated by plot.py at 2018-06-06 07:48:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 495.41 Mbit/s

95th percentile per-packet one-way delay: 1.228 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 302.23 Mbit/s

95th percentile per-packet one-way delay: 1.212 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 217.23 Mbit/s

95th percentile per-packet one-way delay: 1.240 ms

Loss rate: 0.06%

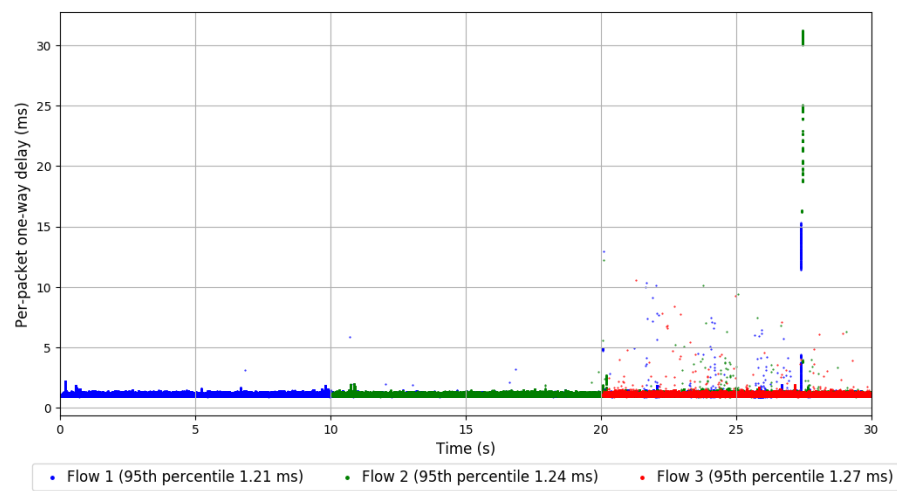
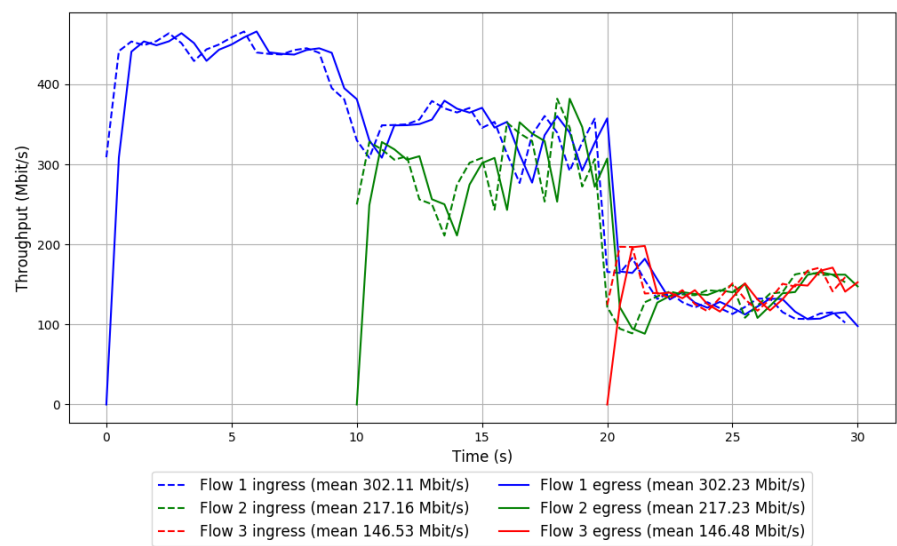
-- Flow 3:

Average throughput: 146.48 Mbit/s

95th percentile per-packet one-way delay: 1.268 ms

Loss rate: 0.24%

Run 9: Report of Copa — Data Link

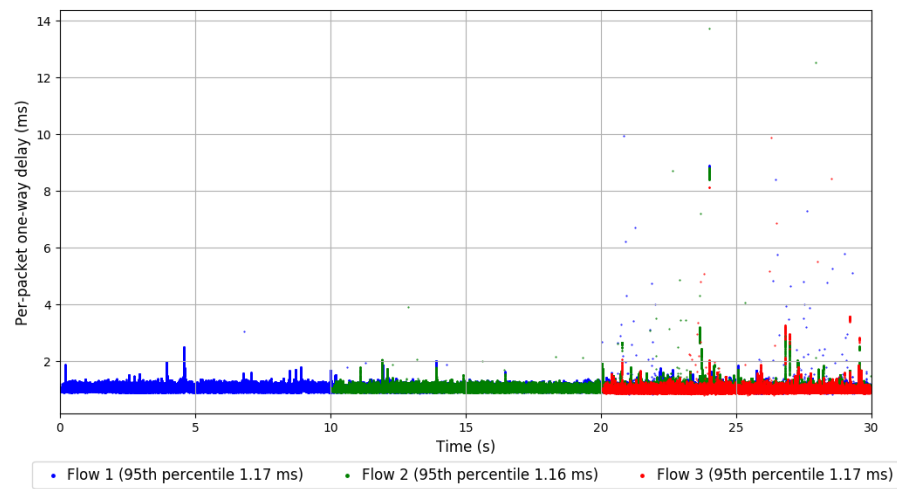
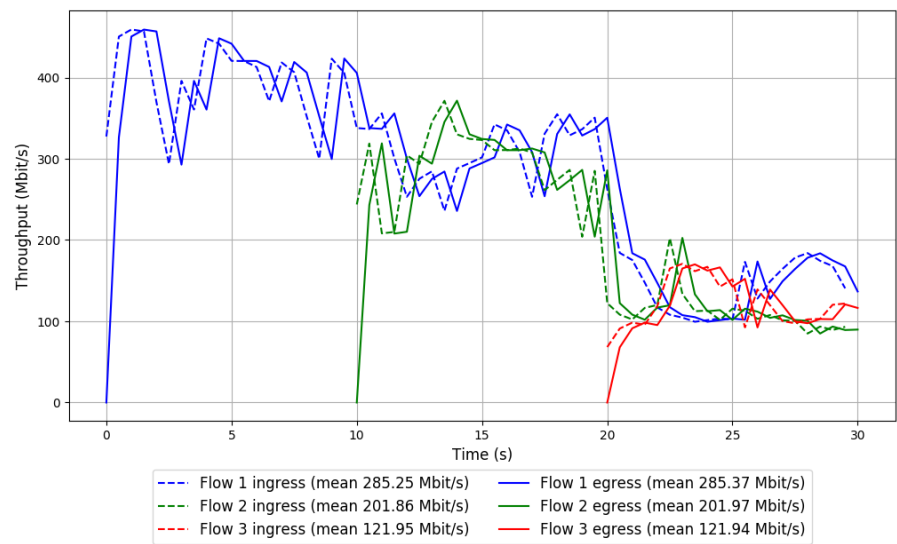


Run 10: Statistics of Copa

Start at: 2018-06-06 07:00:28
End at: 2018-06-06 07:00:58
Local clock offset: -0.518 ms
Remote clock offset: -0.032 ms

Below is generated by plot.py at 2018-06-06 07:48:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 460.25 Mbit/s
95th percentile per-packet one-way delay: 1.170 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 285.37 Mbit/s
95th percentile per-packet one-way delay: 1.174 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 201.97 Mbit/s
95th percentile per-packet one-way delay: 1.159 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 121.94 Mbit/s
95th percentile per-packet one-way delay: 1.165 ms
Loss rate: 0.22%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-06-06 03:11:10

End at: 2018-06-06 03:11:40

Local clock offset: 0.261 ms

Remote clock offset: 0.221 ms

Below is generated by plot.py at 2018-06-06 07:48:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 772.26 Mbit/s

95th percentile per-packet one-way delay: 4.899 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 436.64 Mbit/s

95th percentile per-packet one-way delay: 4.725 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 343.01 Mbit/s

95th percentile per-packet one-way delay: 4.965 ms

Loss rate: 0.07%

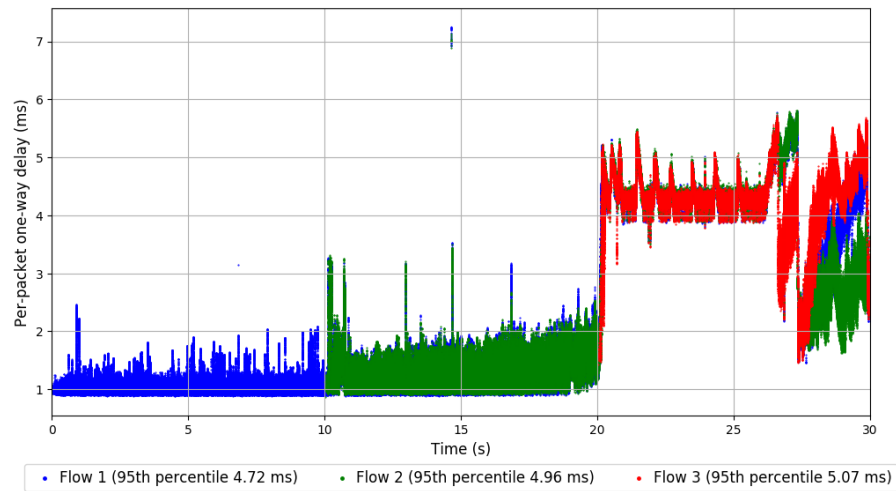
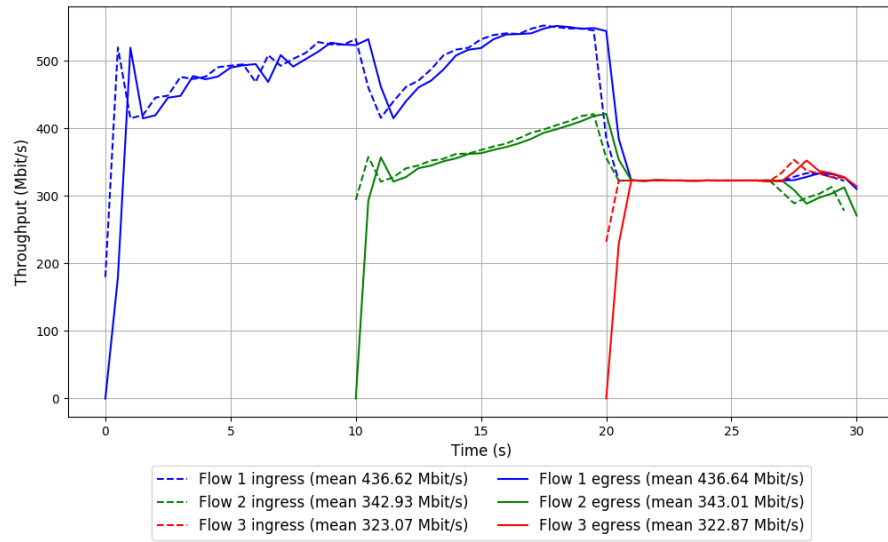
-- Flow 3:

Average throughput: 322.87 Mbit/s

95th percentile per-packet one-way delay: 5.070 ms

Loss rate: 0.25%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-06-06 03:36:28

End at: 2018-06-06 03:36:58

Local clock offset: 0.555 ms

Remote clock offset: 0.906 ms

Below is generated by plot.py at 2018-06-06 07:48:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 800.99 Mbit/s

95th percentile per-packet one-way delay: 4.363 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 423.44 Mbit/s

95th percentile per-packet one-way delay: 4.339 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 407.84 Mbit/s

95th percentile per-packet one-way delay: 4.356 ms

Loss rate: 0.09%

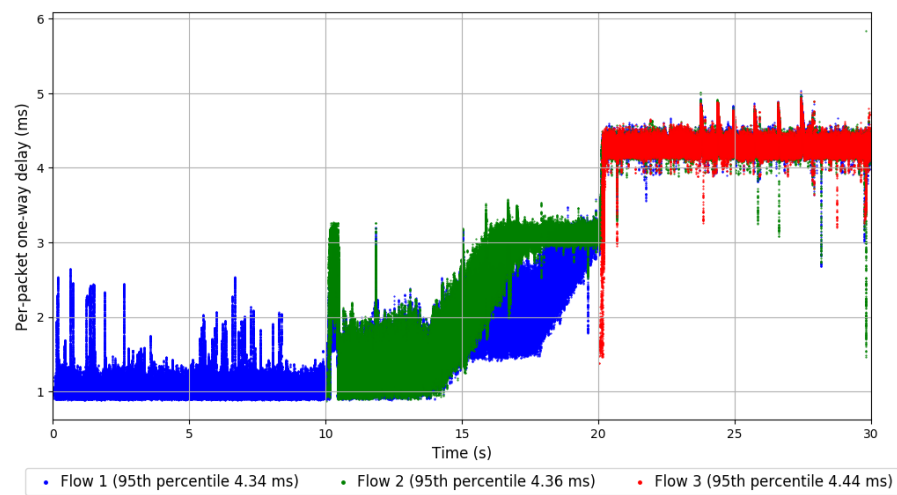
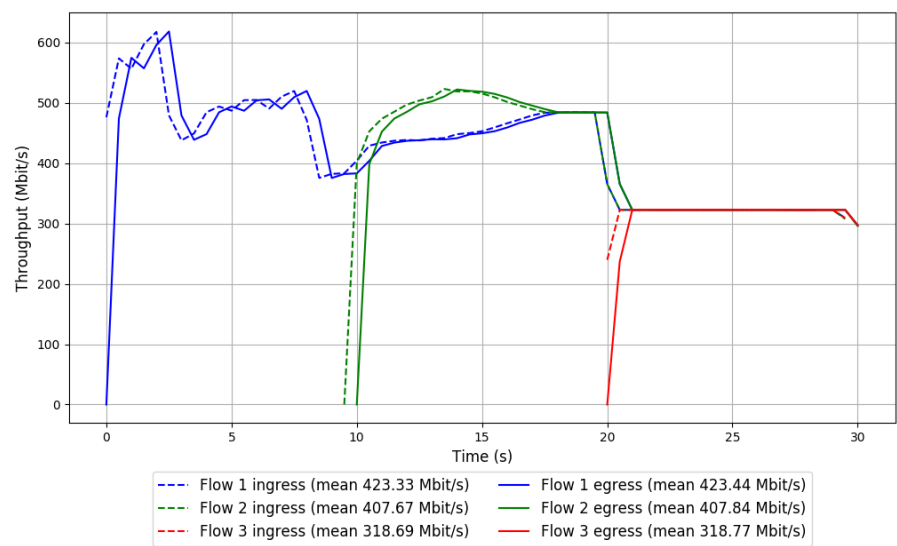
-- Flow 3:

Average throughput: 318.77 Mbit/s

95th percentile per-packet one-way delay: 4.441 ms

Loss rate: 0.23%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-06-06 04:01:41

End at: 2018-06-06 04:02:11

Local clock offset: 1.157 ms

Remote clock offset: 0.423 ms

Below is generated by plot.py at 2018-06-06 07:48:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 801.09 Mbit/s

95th percentile per-packet one-way delay: 4.328 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 433.65 Mbit/s

95th percentile per-packet one-way delay: 4.288 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 392.59 Mbit/s

95th percentile per-packet one-way delay: 4.324 ms

Loss rate: 0.09%

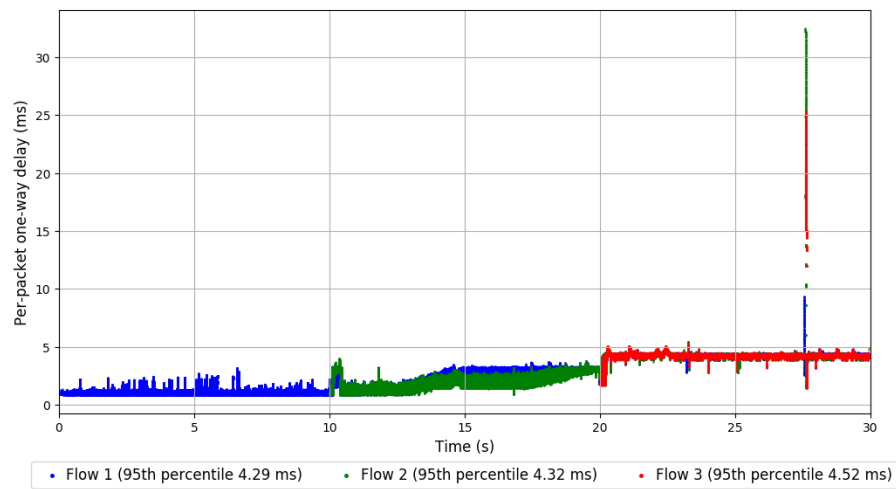
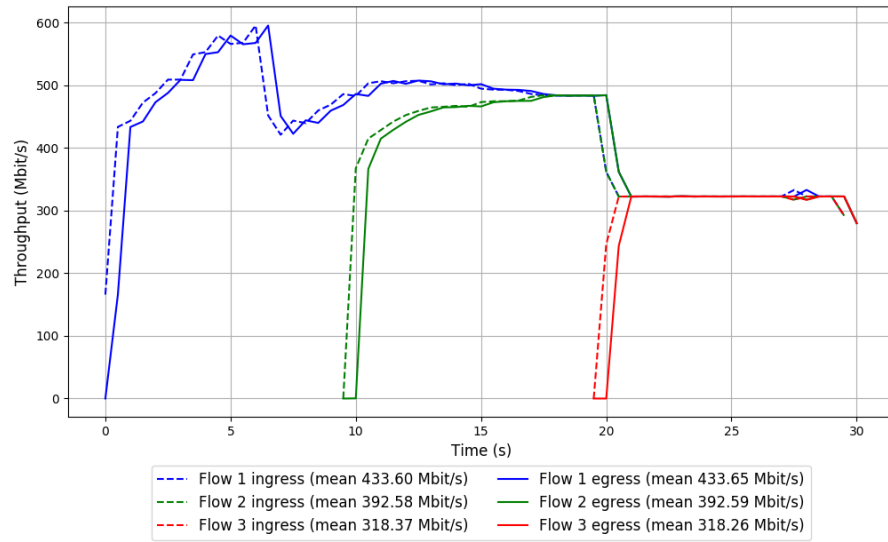
-- Flow 3:

Average throughput: 318.26 Mbit/s

95th percentile per-packet one-way delay: 4.524 ms

Loss rate: 0.23%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-06-06 04:27:03

End at: 2018-06-06 04:27:33

Local clock offset: 1.538 ms

Remote clock offset: 0.182 ms

Below is generated by plot.py at 2018-06-06 07:48:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 809.59 Mbit/s

95th percentile per-packet one-way delay: 4.315 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 443.02 Mbit/s

95th percentile per-packet one-way delay: 4.260 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 391.50 Mbit/s

95th percentile per-packet one-way delay: 4.338 ms

Loss rate: 0.09%

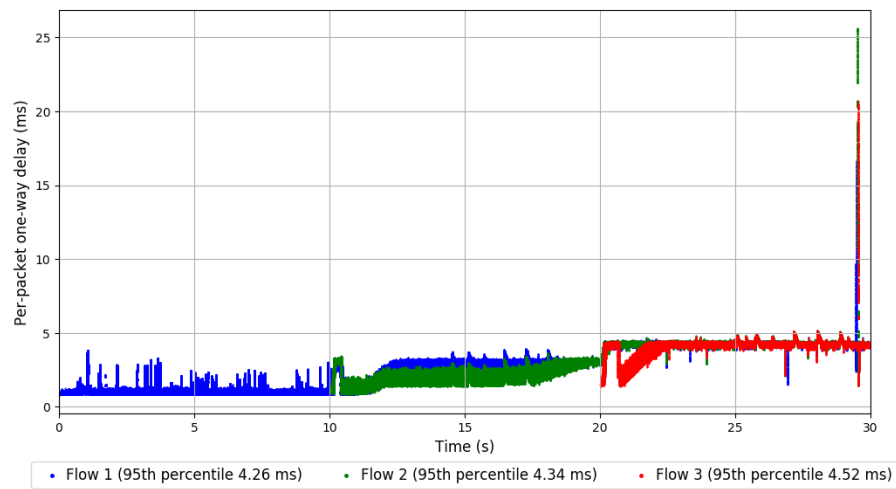
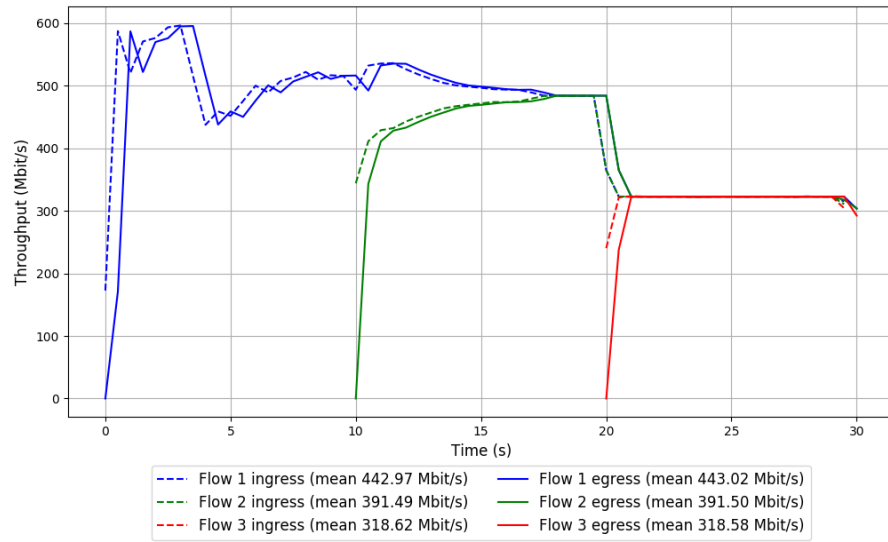
-- Flow 3:

Average throughput: 318.58 Mbit/s

95th percentile per-packet one-way delay: 4.521 ms

Loss rate: 0.23%

Run 4: Report of TCP Cubic — Data Link

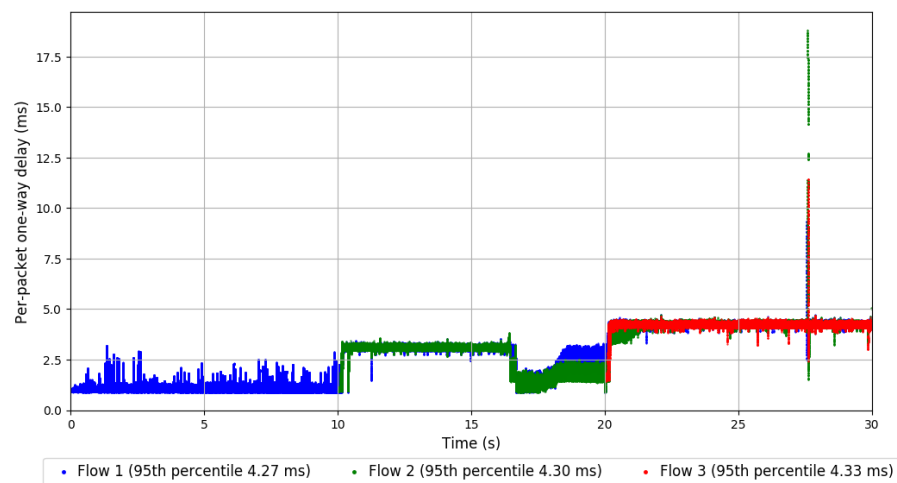
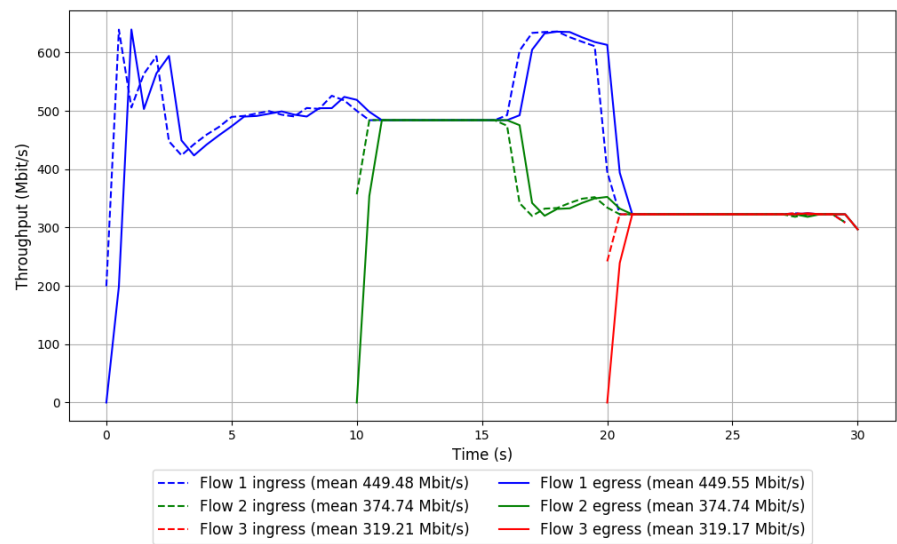


Run 5: Statistics of TCP Cubic

Start at: 2018-06-06 04:52:18
End at: 2018-06-06 04:52:48
Local clock offset: 1.942 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2018-06-06 07:54:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 805.07 Mbit/s
95th percentile per-packet one-way delay: 4.294 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 449.55 Mbit/s
95th percentile per-packet one-way delay: 4.270 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 374.74 Mbit/s
95th percentile per-packet one-way delay: 4.301 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 319.17 Mbit/s
95th percentile per-packet one-way delay: 4.326 ms
Loss rate: 0.22%

Run 5: Report of TCP Cubic — Data Link

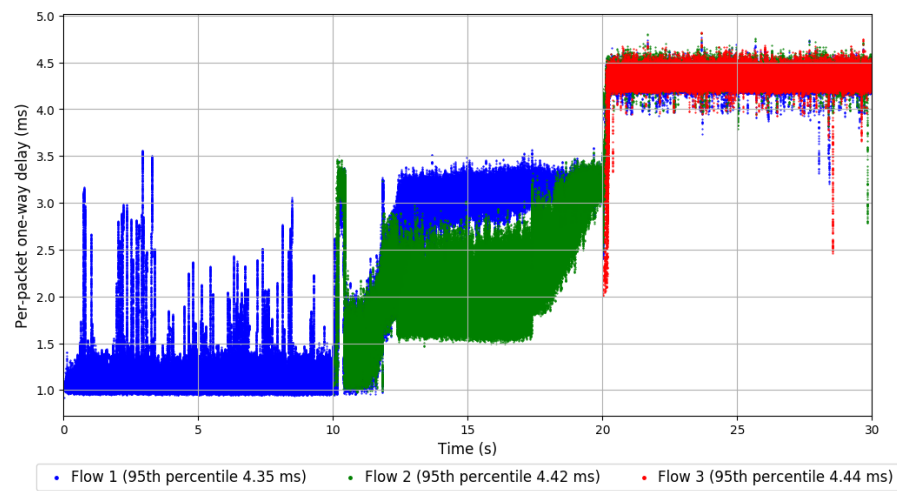
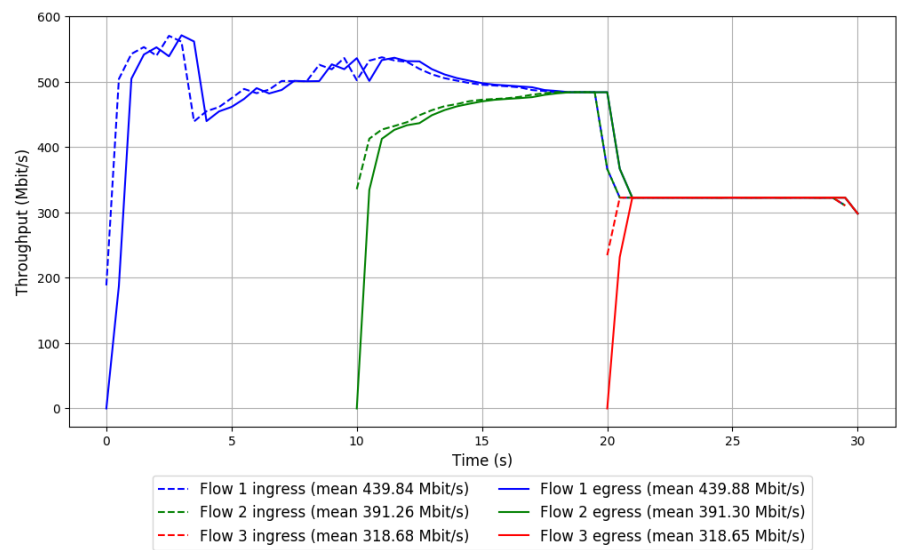


Run 6: Statistics of TCP Cubic

Start at: 2018-06-06 05:17:27
End at: 2018-06-06 05:17:57
Local clock offset: 2.408 ms
Remote clock offset: -0.561 ms

Below is generated by plot.py at 2018-06-06 07:55:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 806.26 Mbit/s
95th percentile per-packet one-way delay: 4.399 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 439.88 Mbit/s
95th percentile per-packet one-way delay: 4.351 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 391.30 Mbit/s
95th percentile per-packet one-way delay: 4.417 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 318.65 Mbit/s
95th percentile per-packet one-way delay: 4.438 ms
Loss rate: 0.24%

Run 6: Report of TCP Cubic — Data Link

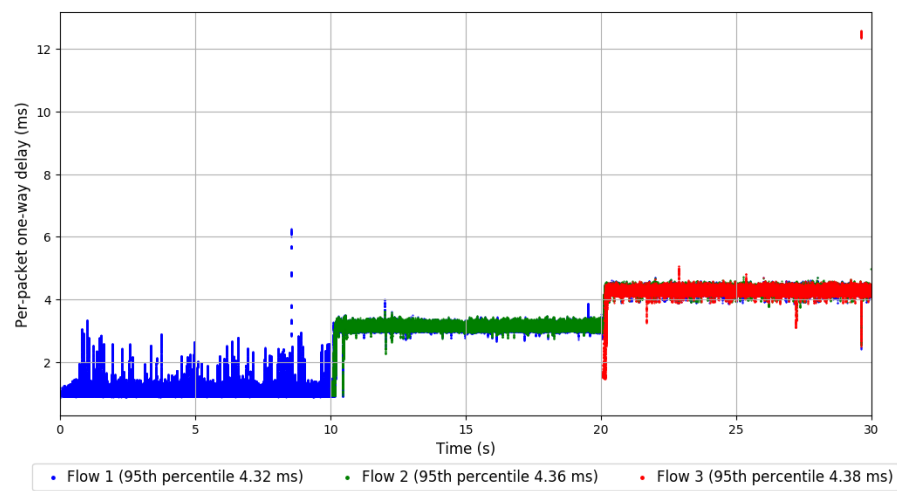
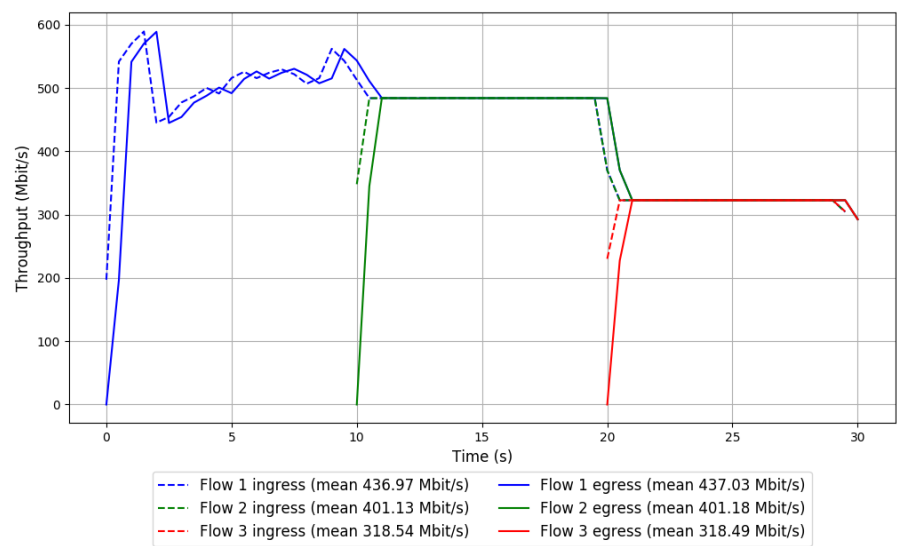


Run 7: Statistics of TCP Cubic

Start at: 2018-06-06 05:42:52
End at: 2018-06-06 05:43:22
Local clock offset: 1.889 ms
Remote clock offset: -0.479 ms

Below is generated by plot.py at 2018-06-06 07:55:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 809.81 Mbit/s
95th percentile per-packet one-way delay: 4.348 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 437.03 Mbit/s
95th percentile per-packet one-way delay: 4.320 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 401.18 Mbit/s
95th percentile per-packet one-way delay: 4.361 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 318.49 Mbit/s
95th percentile per-packet one-way delay: 4.379 ms
Loss rate: 0.23%

Run 7: Report of TCP Cubic — Data Link

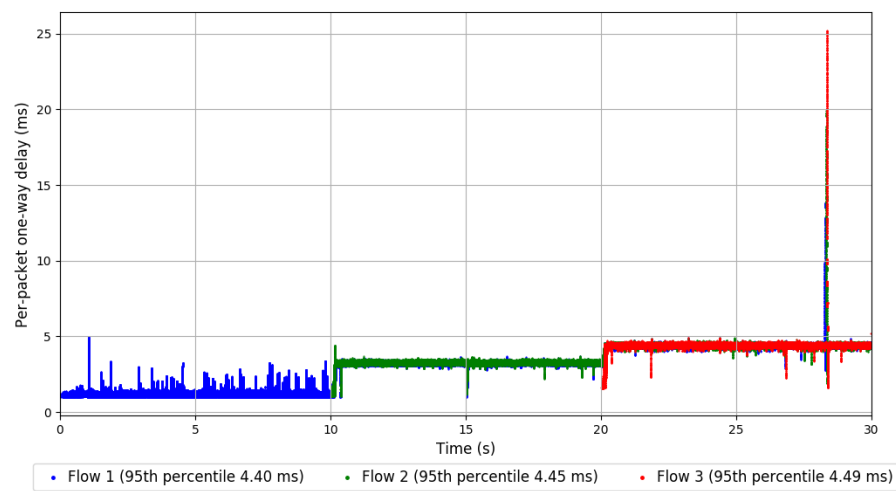
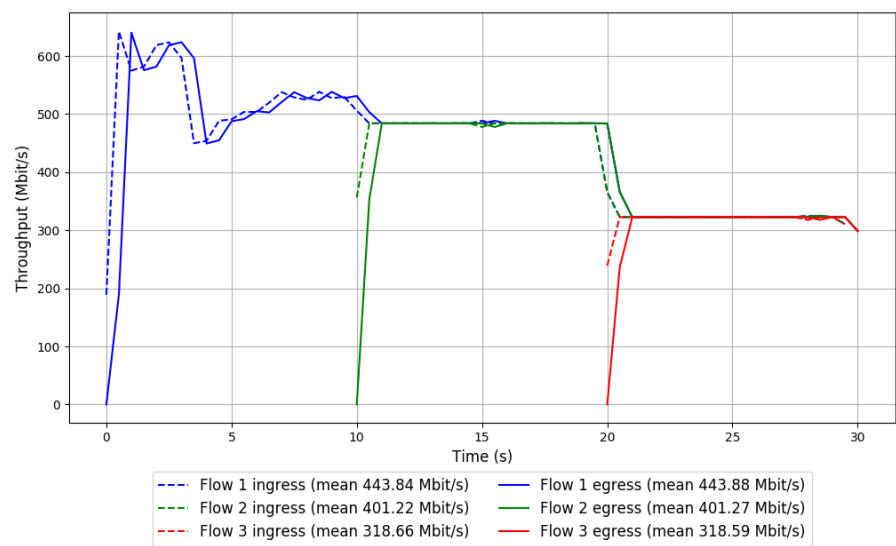


Run 8: Statistics of TCP Cubic

Start at: 2018-06-06 06:08:07
End at: 2018-06-06 06:08:37
Local clock offset: 1.459 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2018-06-06 07:55:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 816.92 Mbit/s
95th percentile per-packet one-way delay: 4.439 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 443.88 Mbit/s
95th percentile per-packet one-way delay: 4.400 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 401.27 Mbit/s
95th percentile per-packet one-way delay: 4.446 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 318.59 Mbit/s
95th percentile per-packet one-way delay: 4.487 ms
Loss rate: 0.23%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-06-06 06:33:31

End at: 2018-06-06 06:34:01

Local clock offset: 0.143 ms

Remote clock offset: 0.127 ms

Below is generated by plot.py at 2018-06-06 07:55:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 805.31 Mbit/s

95th percentile per-packet one-way delay: 4.352 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 432.31 Mbit/s

95th percentile per-packet one-way delay: 4.330 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 401.22 Mbit/s

95th percentile per-packet one-way delay: 4.354 ms

Loss rate: 0.09%

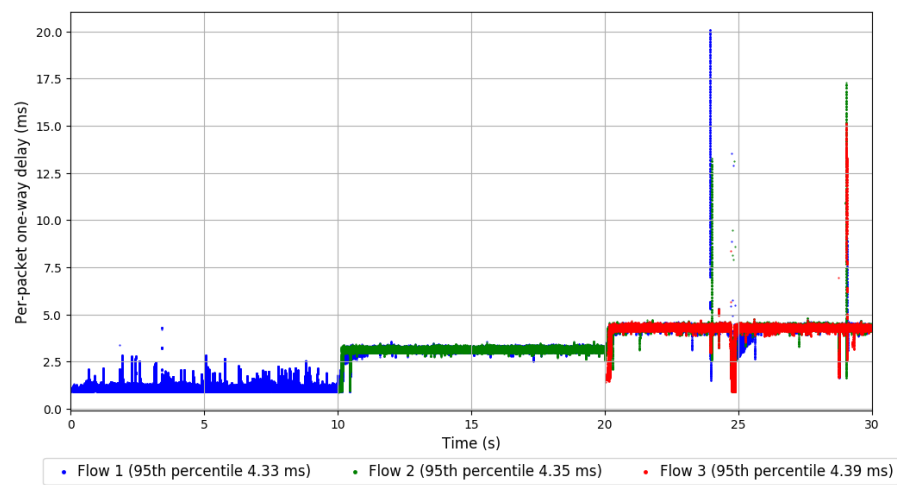
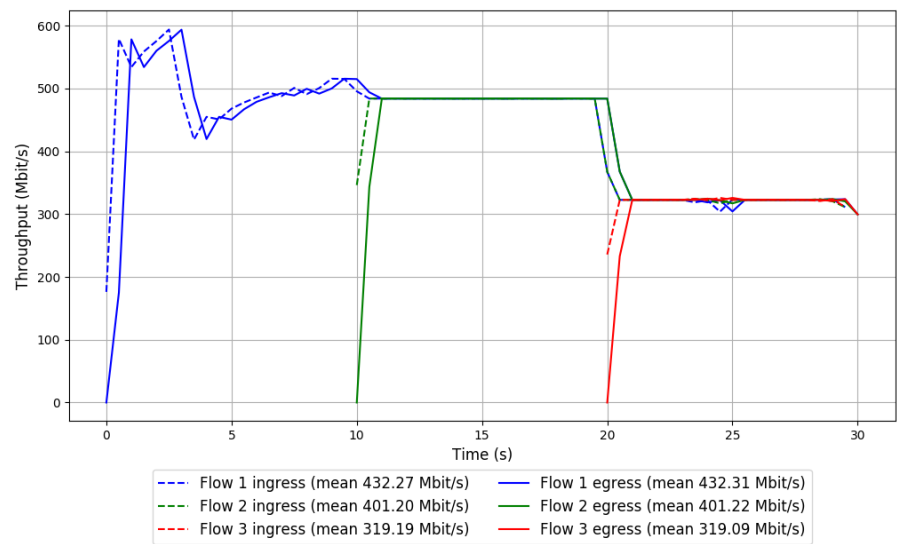
-- Flow 3:

Average throughput: 319.09 Mbit/s

95th percentile per-packet one-way delay: 4.390 ms

Loss rate: 0.23%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-06-06 06:58:44

End at: 2018-06-06 06:59:14

Local clock offset: -0.5 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2018-06-06 07:55:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 798.47 Mbit/s

95th percentile per-packet one-way delay: 4.337 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 425.80 Mbit/s

95th percentile per-packet one-way delay: 4.319 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 400.86 Mbit/s

95th percentile per-packet one-way delay: 4.324 ms

Loss rate: 0.09%

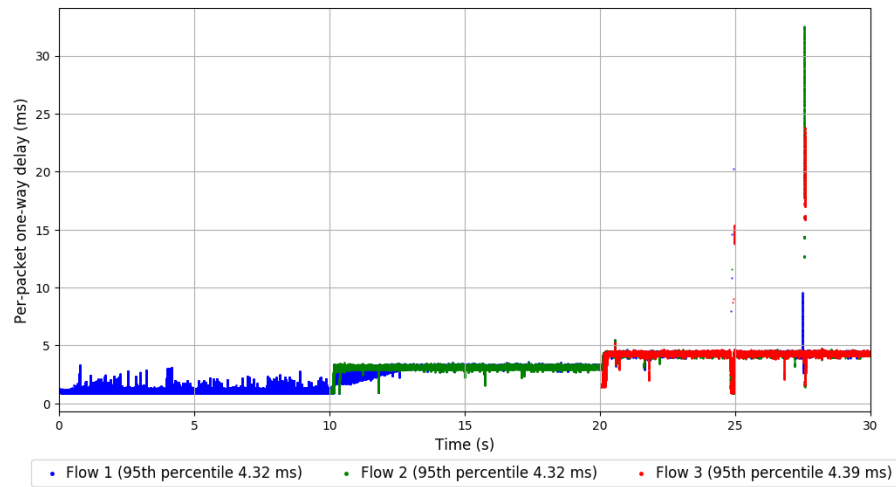
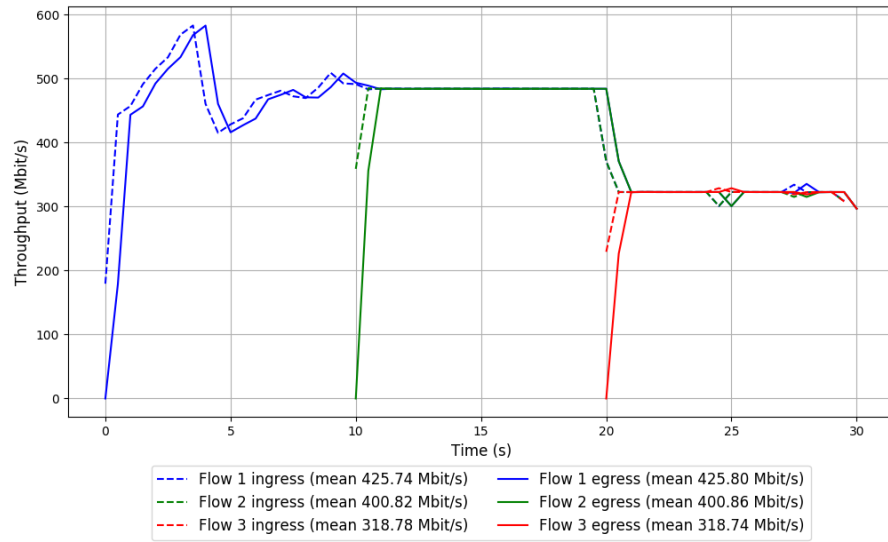
-- Flow 3:

Average throughput: 318.74 Mbit/s

95th percentile per-packet one-way delay: 4.386 ms

Loss rate: 0.22%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-06-06 03:08:06

End at: 2018-06-06 03:08:36

Local clock offset: 0.292 ms

Remote clock offset: 0.273 ms

Below is generated by plot.py at 2018-06-06 08:00:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 939.32 Mbit/s

95th percentile per-packet one-way delay: 4.381 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 584.24 Mbit/s

95th percentile per-packet one-way delay: 3.974 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 386.66 Mbit/s

95th percentile per-packet one-way delay: 4.487 ms

Loss rate: 0.10%

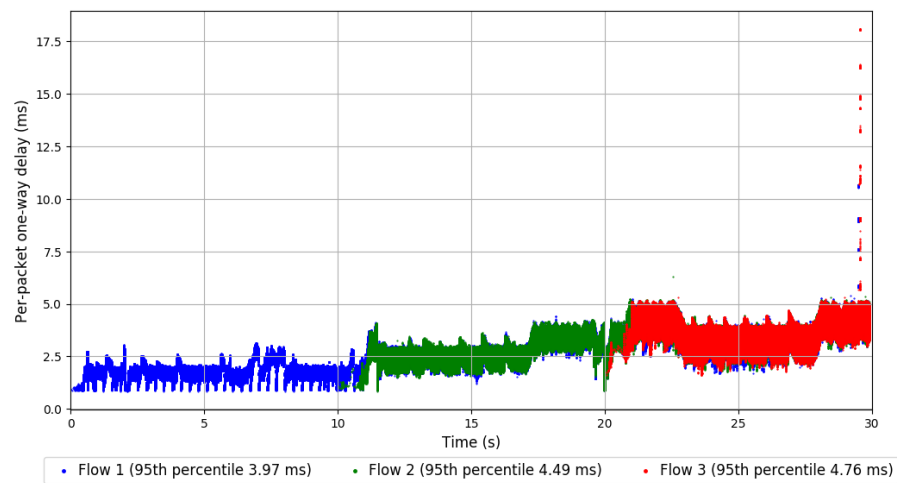
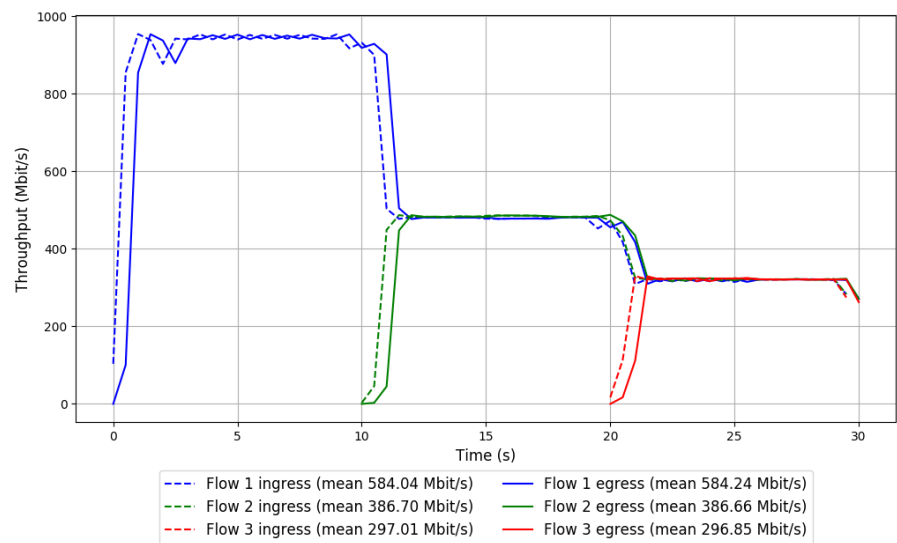
-- Flow 3:

Average throughput: 296.85 Mbit/s

95th percentile per-packet one-way delay: 4.763 ms

Loss rate: 0.26%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-06-06 03:33:25

End at: 2018-06-06 03:33:55

Local clock offset: 0.613 ms

Remote clock offset: 0.867 ms

Below is generated by plot.py at 2018-06-06 08:00:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 932.89 Mbit/s

95th percentile per-packet one-way delay: 3.949 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 572.43 Mbit/s

95th percentile per-packet one-way delay: 12.700 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 395.46 Mbit/s

95th percentile per-packet one-way delay: 3.731 ms

Loss rate: 0.09%

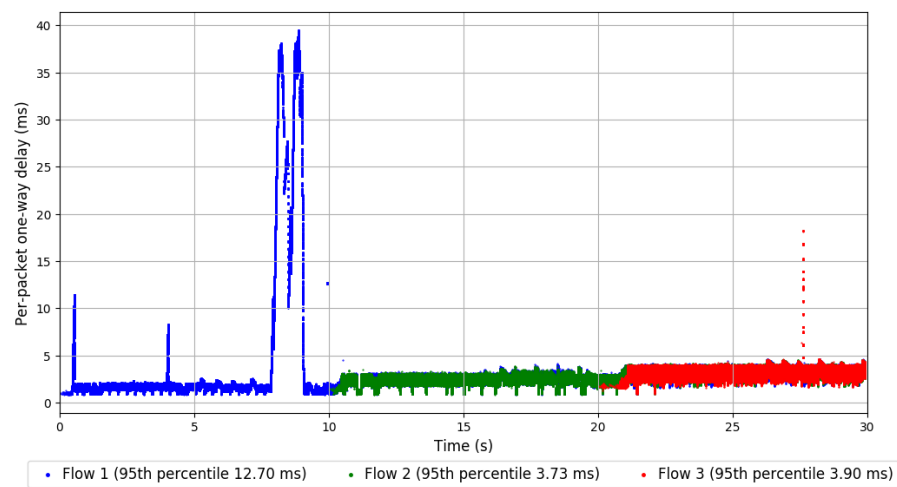
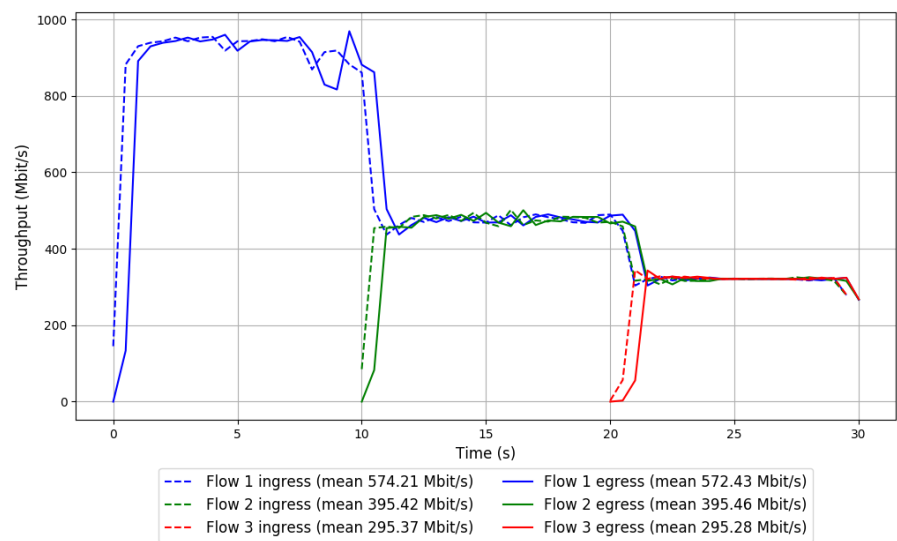
-- Flow 3:

Average throughput: 295.28 Mbit/s

95th percentile per-packet one-way delay: 3.895 ms

Loss rate: 0.24%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-06-06 03:58:38

End at: 2018-06-06 03:59:08

Local clock offset: 1.165 ms

Remote clock offset: 0.414 ms

Below is generated by plot.py at 2018-06-06 08:07:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 914.08 Mbit/s

95th percentile per-packet one-way delay: 3.789 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 562.14 Mbit/s

95th percentile per-packet one-way delay: 3.647 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 379.20 Mbit/s

95th percentile per-packet one-way delay: 3.821 ms

Loss rate: 0.10%

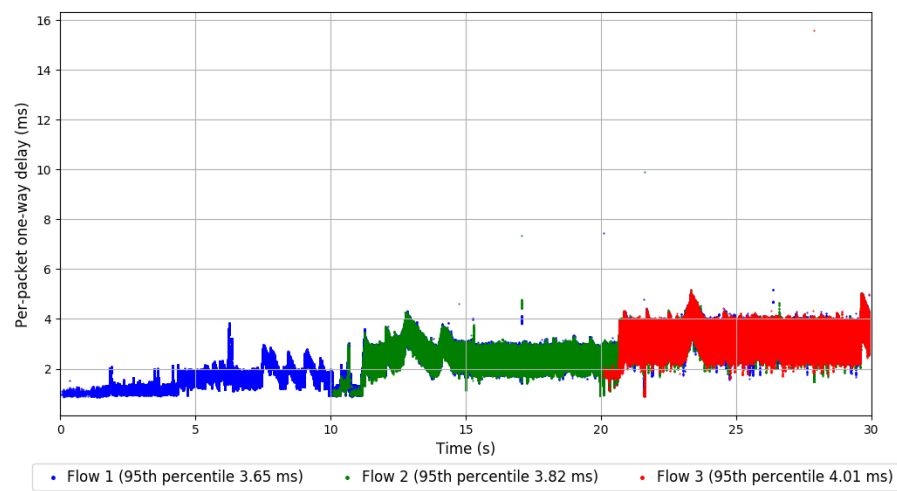
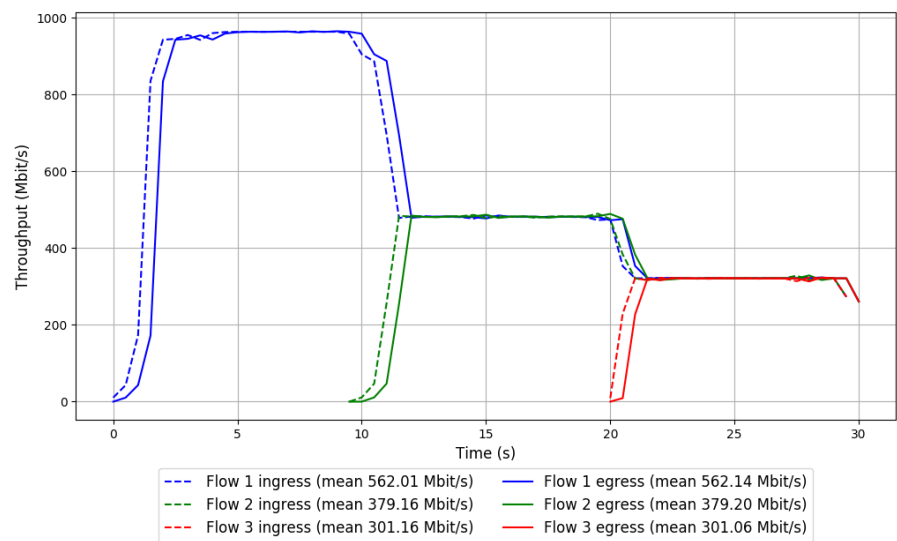
-- Flow 3:

Average throughput: 301.06 Mbit/s

95th percentile per-packet one-way delay: 4.011 ms

Loss rate: 0.24%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-06-06 04:23:59

End at: 2018-06-06 04:24:29

Local clock offset: 1.662 ms

Remote clock offset: 0.245 ms

Below is generated by plot.py at 2018-06-06 08:07:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 938.97 Mbit/s

95th percentile per-packet one-way delay: 3.700 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 579.70 Mbit/s

95th percentile per-packet one-way delay: 3.480 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 392.34 Mbit/s

95th percentile per-packet one-way delay: 3.740 ms

Loss rate: 0.09%

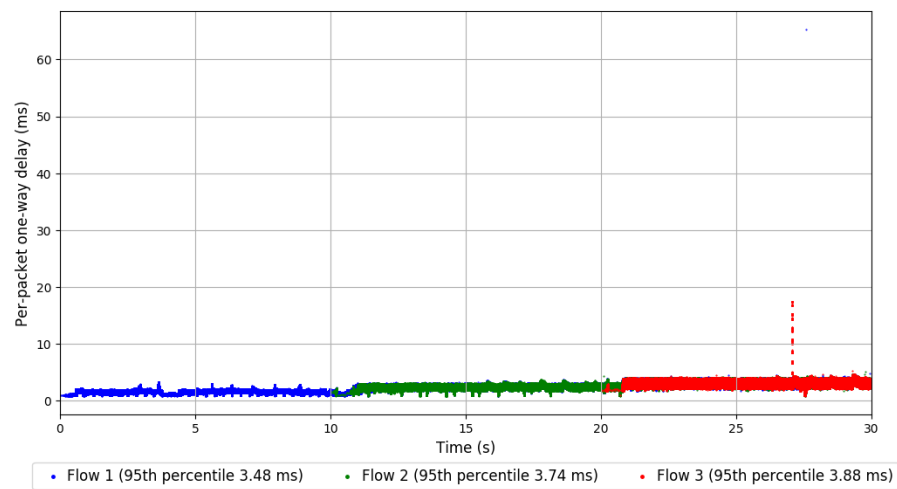
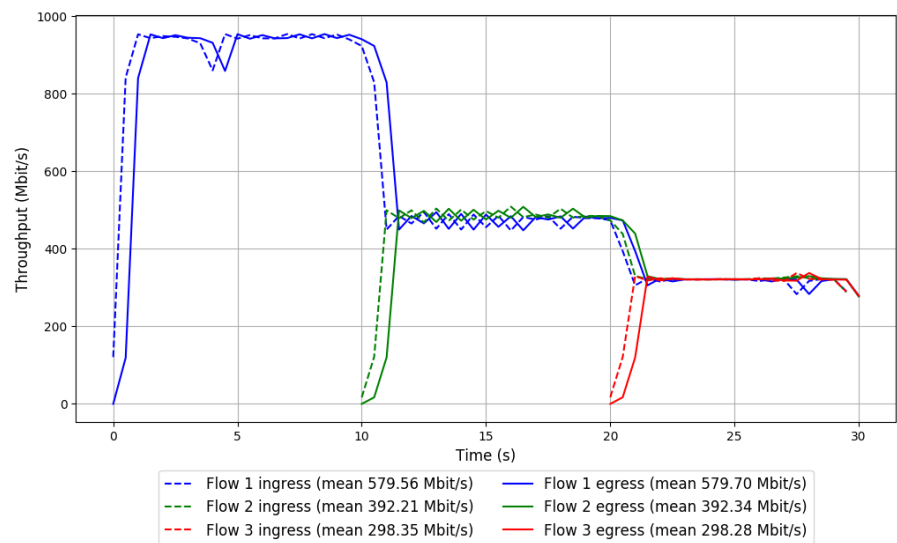
-- Flow 3:

Average throughput: 298.28 Mbit/s

95th percentile per-packet one-way delay: 3.878 ms

Loss rate: 0.22%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-06-06 04:49:15

End at: 2018-06-06 04:49:45

Local clock offset: 1.796 ms

Remote clock offset: 0.109 ms

Below is generated by plot.py at 2018-06-06 08:07:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 892.93 Mbit/s

95th percentile per-packet one-way delay: 3.541 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 537.66 Mbit/s

95th percentile per-packet one-way delay: 3.361 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 384.44 Mbit/s

95th percentile per-packet one-way delay: 3.574 ms

Loss rate: 0.09%

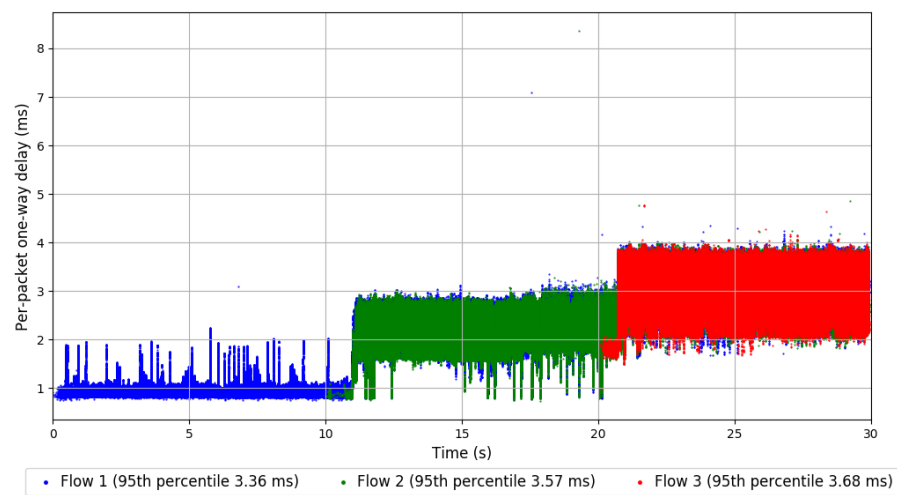
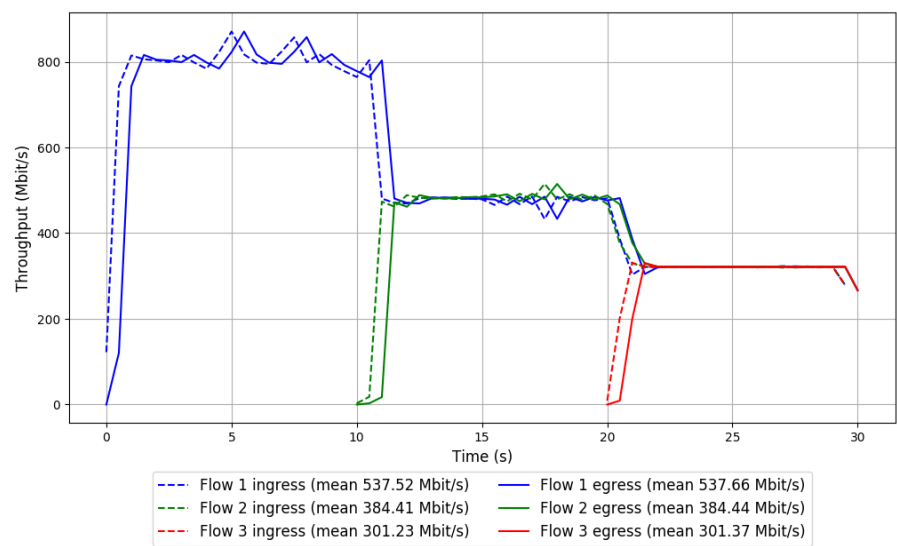
-- Flow 3:

Average throughput: 301.37 Mbit/s

95th percentile per-packet one-way delay: 3.682 ms

Loss rate: 0.24%

Run 5: Report of FillP — Data Link

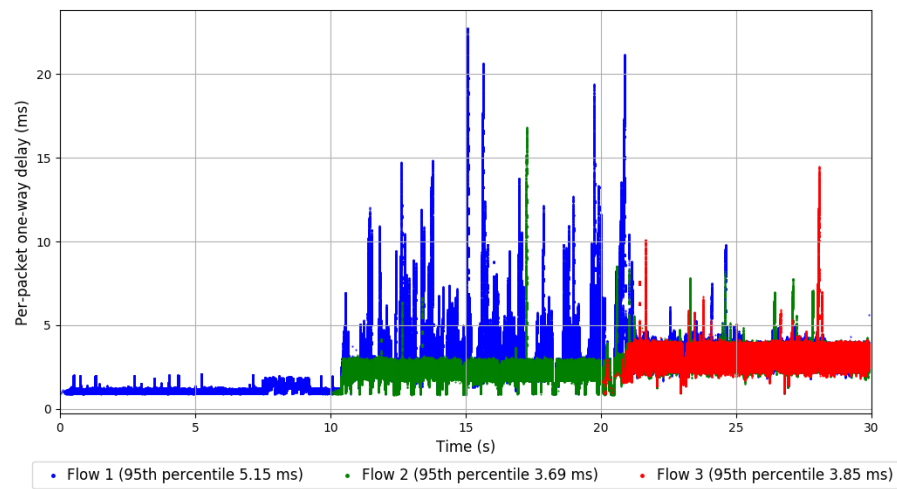
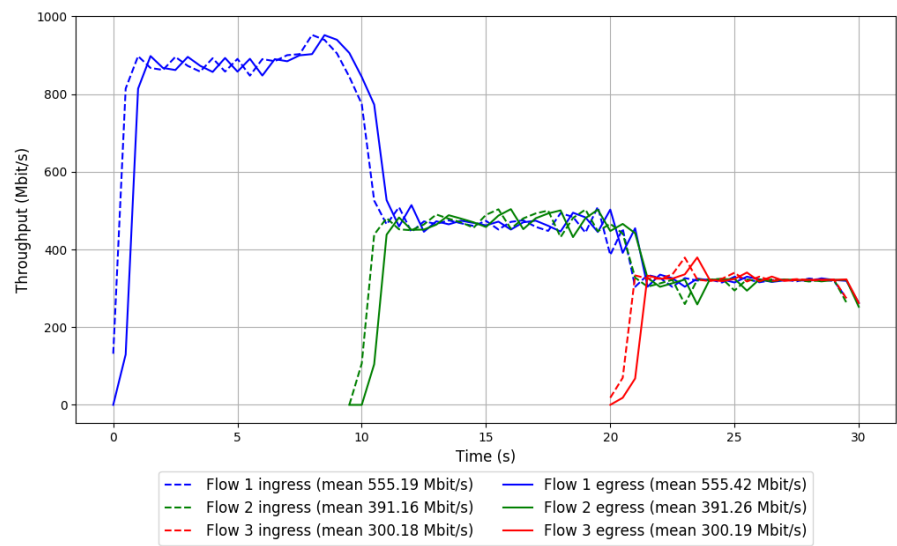


Run 6: Statistics of FillP

Start at: 2018-06-06 05:14:23
End at: 2018-06-06 05:14:53
Local clock offset: 2.355 ms
Remote clock offset: -0.467 ms

Below is generated by plot.py at 2018-06-06 08:07:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 915.03 Mbit/s
95th percentile per-packet one-way delay: 4.228 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 555.42 Mbit/s
95th percentile per-packet one-way delay: 5.148 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 391.26 Mbit/s
95th percentile per-packet one-way delay: 3.690 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 300.19 Mbit/s
95th percentile per-packet one-way delay: 3.855 ms
Loss rate: 0.23%

Run 6: Report of FillP — Data Link

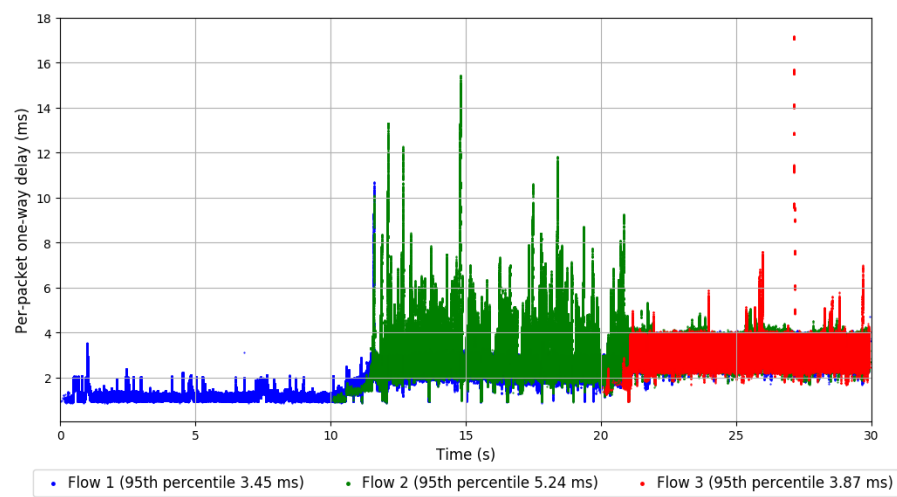
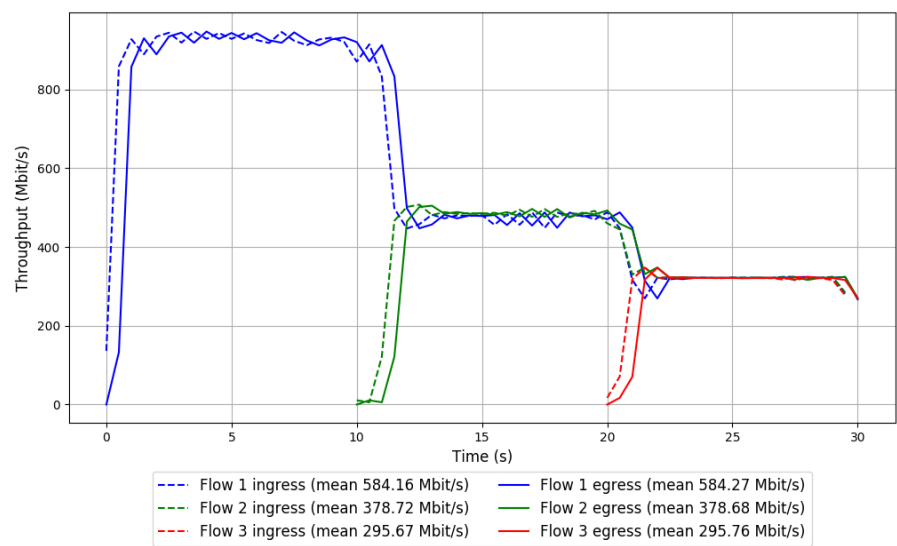


Run 7: Statistics of FillP

Start at: 2018-06-06 05:39:49
End at: 2018-06-06 05:40:19
Local clock offset: 2.008 ms
Remote clock offset: -0.397 ms

Below is generated by plot.py at 2018-06-06 08:08:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 933.74 Mbit/s
95th percentile per-packet one-way delay: 3.887 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 584.27 Mbit/s
95th percentile per-packet one-way delay: 3.451 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 378.68 Mbit/s
95th percentile per-packet one-way delay: 5.242 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 295.76 Mbit/s
95th percentile per-packet one-way delay: 3.871 ms
Loss rate: 0.16%

Run 7: Report of FillP — Data Link

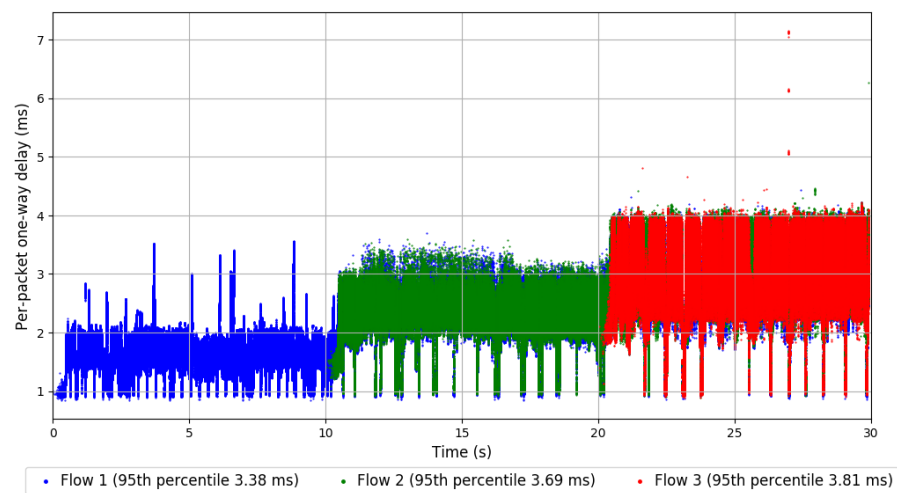
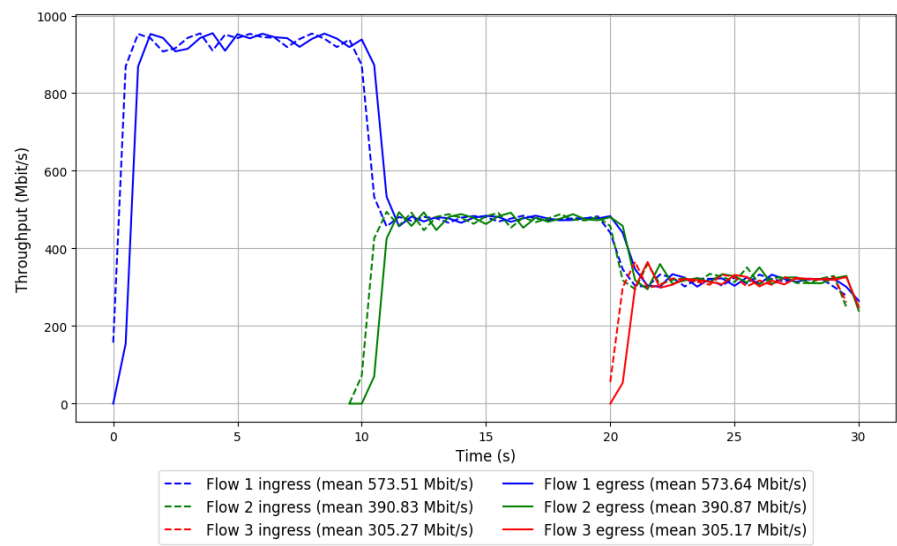


Run 8: Statistics of FillP

Start at: 2018-06-06 06:05:03
End at: 2018-06-06 06:05:33
Local clock offset: 1.477 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-06-06 08:08:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 934.66 Mbit/s
95th percentile per-packet one-way delay: 3.630 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 573.64 Mbit/s
95th percentile per-packet one-way delay: 3.383 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 390.87 Mbit/s
95th percentile per-packet one-way delay: 3.693 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 305.17 Mbit/s
95th percentile per-packet one-way delay: 3.811 ms
Loss rate: 0.25%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-06-06 06:30:26

End at: 2018-06-06 06:30:56

Local clock offset: 0.378 ms

Remote clock offset: 0.243 ms

Below is generated by plot.py at 2018-06-06 08:14:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 938.56 Mbit/s

95th percentile per-packet one-way delay: 3.837 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 586.38 Mbit/s

95th percentile per-packet one-way delay: 3.744 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 389.47 Mbit/s

95th percentile per-packet one-way delay: 3.798 ms

Loss rate: 0.09%

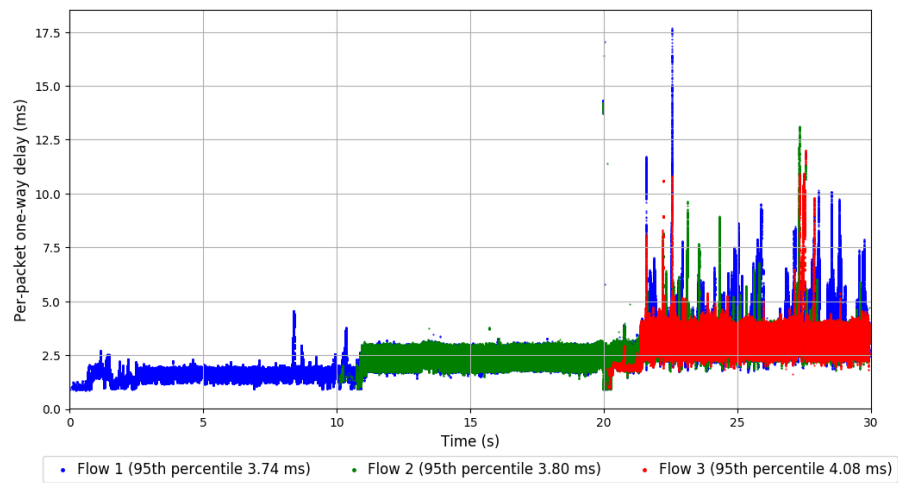
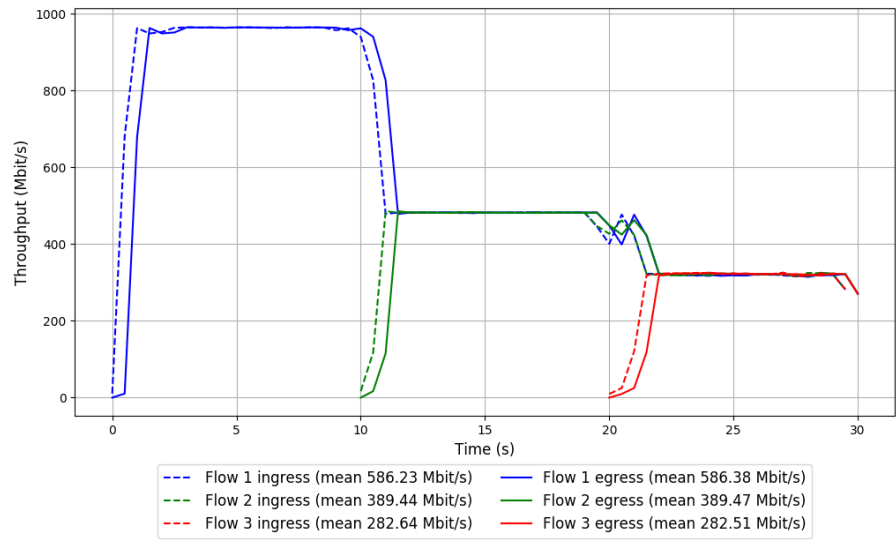
-- Flow 3:

Average throughput: 282.51 Mbit/s

95th percentile per-packet one-way delay: 4.081 ms

Loss rate: 0.24%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-06-06 06:55:41

End at: 2018-06-06 06:56:11

Local clock offset: -0.351 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-06-06 08:14:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 917.96 Mbit/s

95th percentile per-packet one-way delay: 3.901 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 557.29 Mbit/s

95th percentile per-packet one-way delay: 3.655 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 393.76 Mbit/s

95th percentile per-packet one-way delay: 3.760 ms

Loss rate: 0.09%

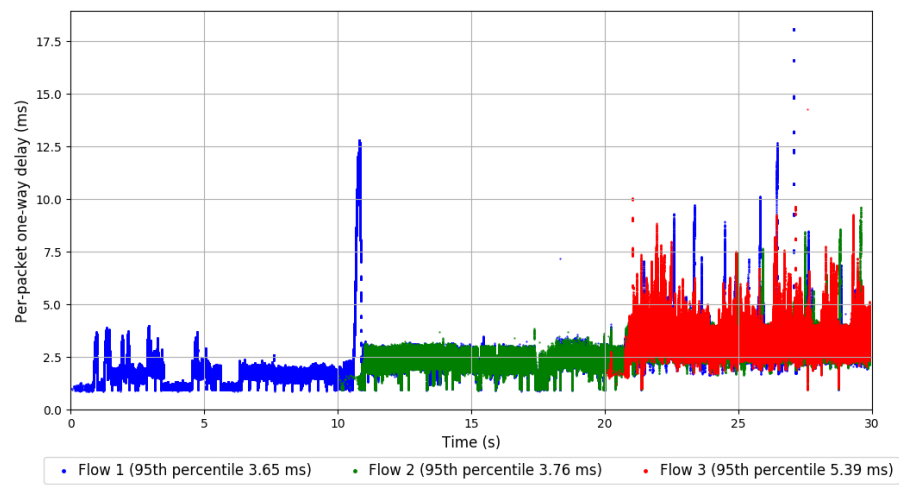
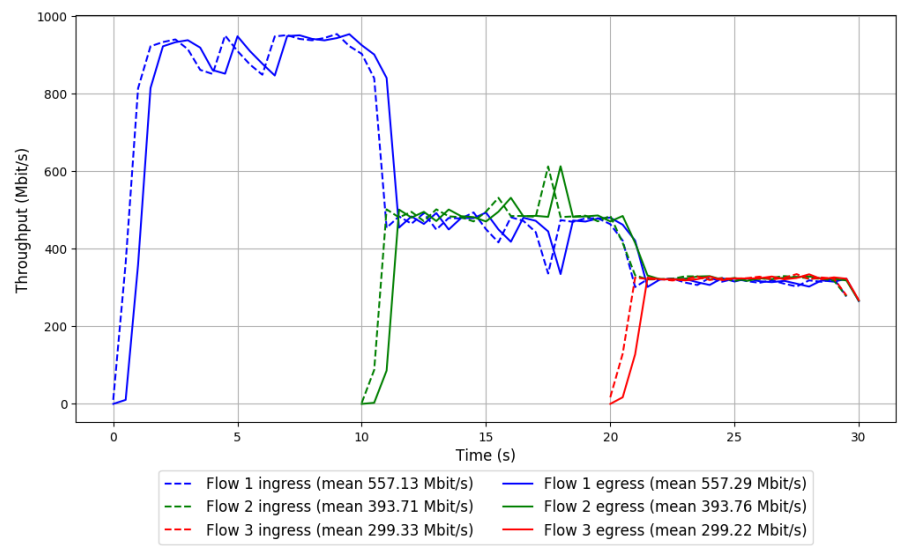
-- Flow 3:

Average throughput: 299.22 Mbit/s

95th percentile per-packet one-way delay: 5.392 ms

Loss rate: 0.25%

Run 10: Report of FillP — Data Link

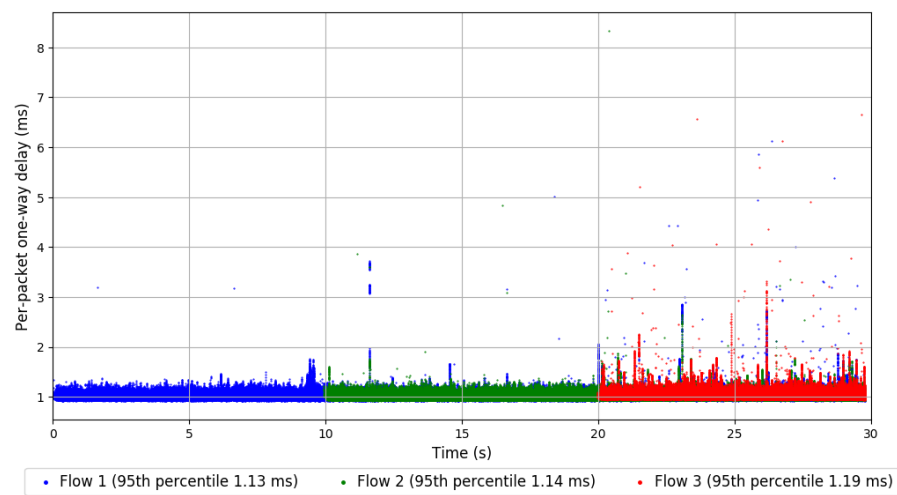
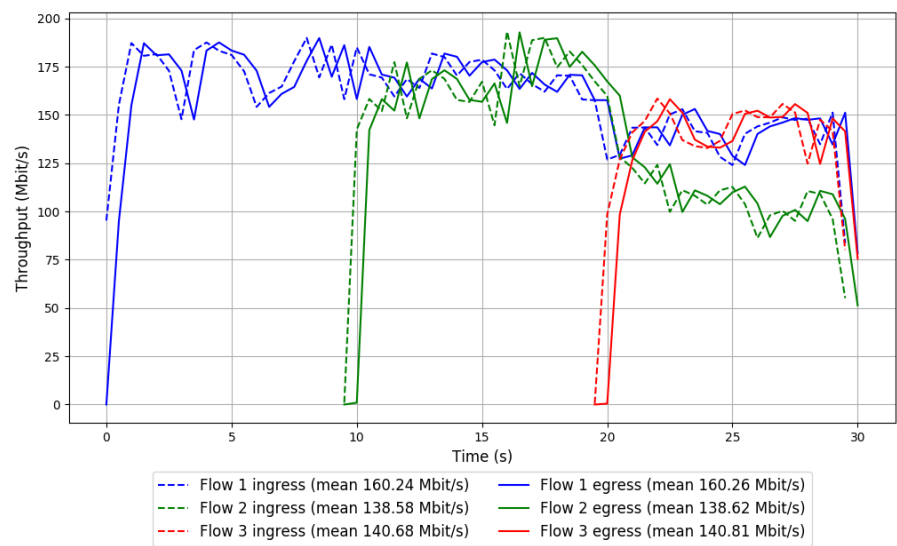


```
Run 1: Statistics of Indigo

Start at: 2018-06-06 03:03:16
End at: 2018-06-06 03:03:46
Local clock offset: 0.123 ms
Remote clock offset: 0.162 ms

# Below is generated by plot.py at 2018-06-06 08:14:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 298.97 Mbit/s
95th percentile per-packet one-way delay: 1.143 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 160.26 Mbit/s
95th percentile per-packet one-way delay: 1.132 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 138.62 Mbit/s
95th percentile per-packet one-way delay: 1.136 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 140.81 Mbit/s
95th percentile per-packet one-way delay: 1.192 ms
Loss rate: 0.17%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-06-06 03:28:35

End at: 2018-06-06 03:29:05

Local clock offset: 0.457 ms

Remote clock offset: 0.652 ms

Below is generated by plot.py at 2018-06-06 08:14:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 298.74 Mbit/s

95th percentile per-packet one-way delay: 1.108 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 158.06 Mbit/s

95th percentile per-packet one-way delay: 1.099 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 154.41 Mbit/s

95th percentile per-packet one-way delay: 1.117 ms

Loss rate: 0.08%

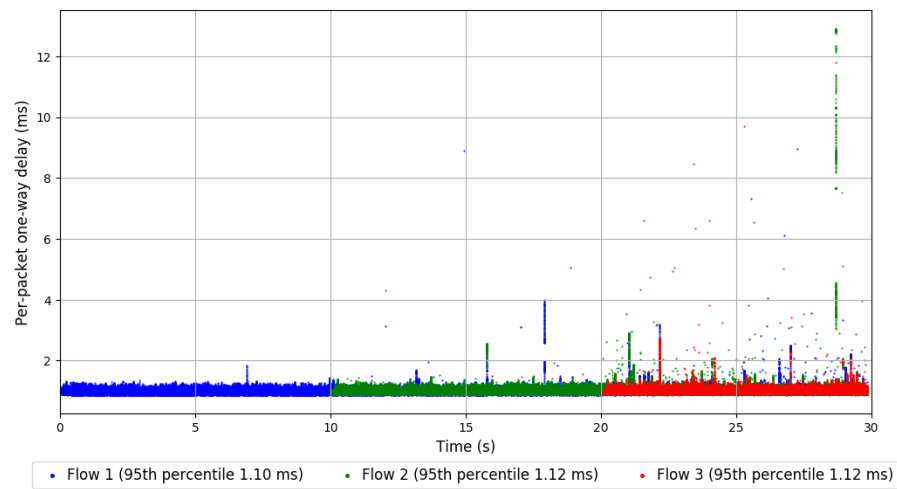
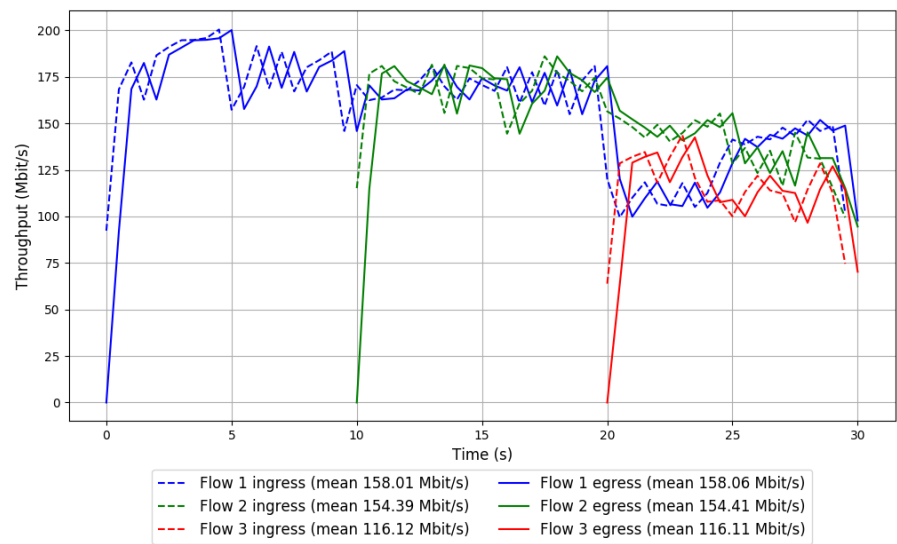
-- Flow 3:

Average throughput: 116.11 Mbit/s

95th percentile per-packet one-way delay: 1.120 ms

Loss rate: 0.20%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-06-06 03:53:43

End at: 2018-06-06 03:54:13

Local clock offset: 0.936 ms

Remote clock offset: 0.392 ms

Below is generated by plot.py at 2018-06-06 08:14:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 294.49 Mbit/s

95th percentile per-packet one-way delay: 1.046 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 148.45 Mbit/s

95th percentile per-packet one-way delay: 1.040 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 154.57 Mbit/s

95th percentile per-packet one-way delay: 1.046 ms

Loss rate: 0.06%

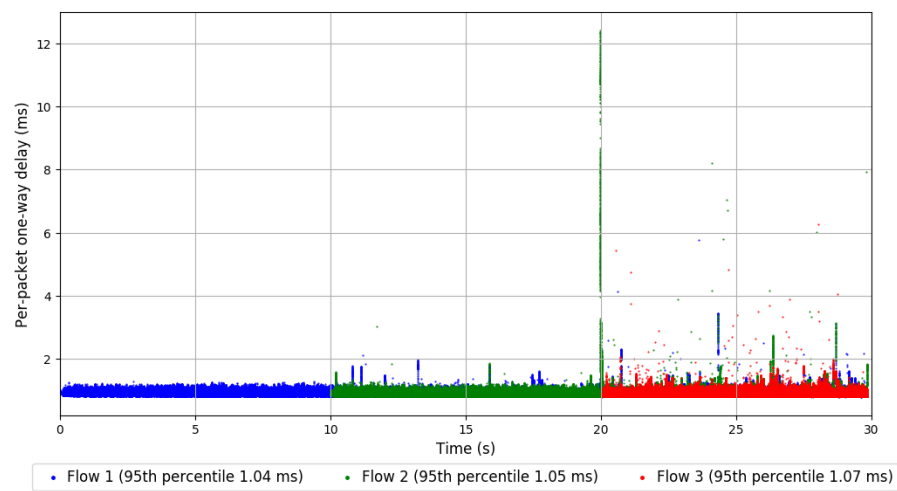
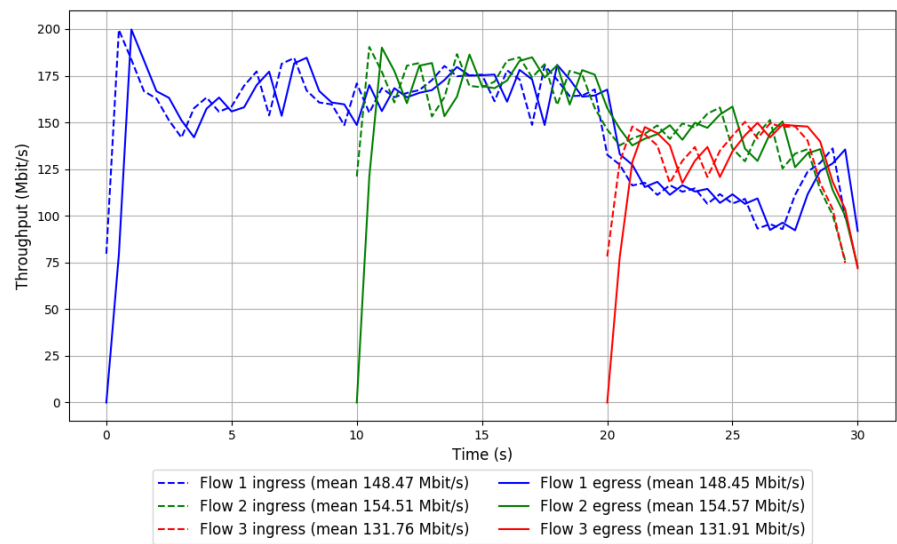
-- Flow 3:

Average throughput: 131.91 Mbit/s

95th percentile per-packet one-way delay: 1.068 ms

Loss rate: 0.11%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-06-06 04:19:03

End at: 2018-06-06 04:19:33

Local clock offset: 1.716 ms

Remote clock offset: 0.236 ms

Below is generated by plot.py at 2018-06-06 08:14:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 292.17 Mbit/s

95th percentile per-packet one-way delay: 1.208 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 162.27 Mbit/s

95th percentile per-packet one-way delay: 1.210 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 156.15 Mbit/s

95th percentile per-packet one-way delay: 1.209 ms

Loss rate: 0.06%

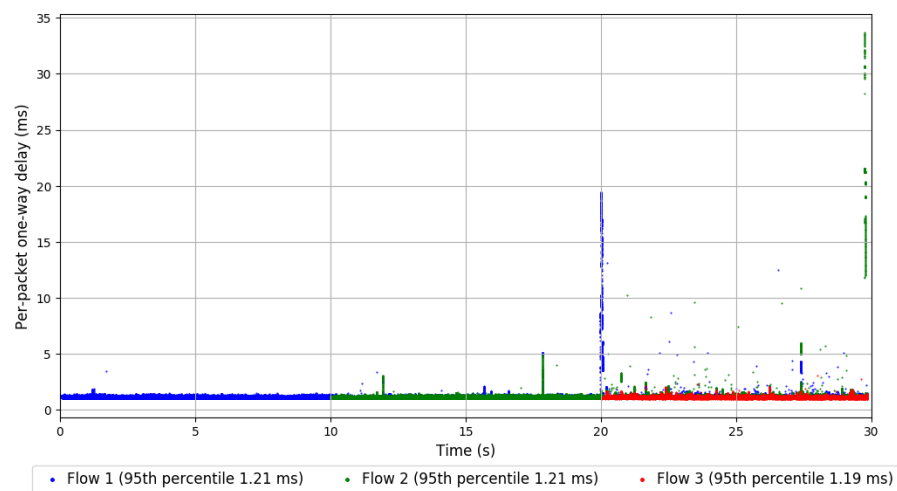
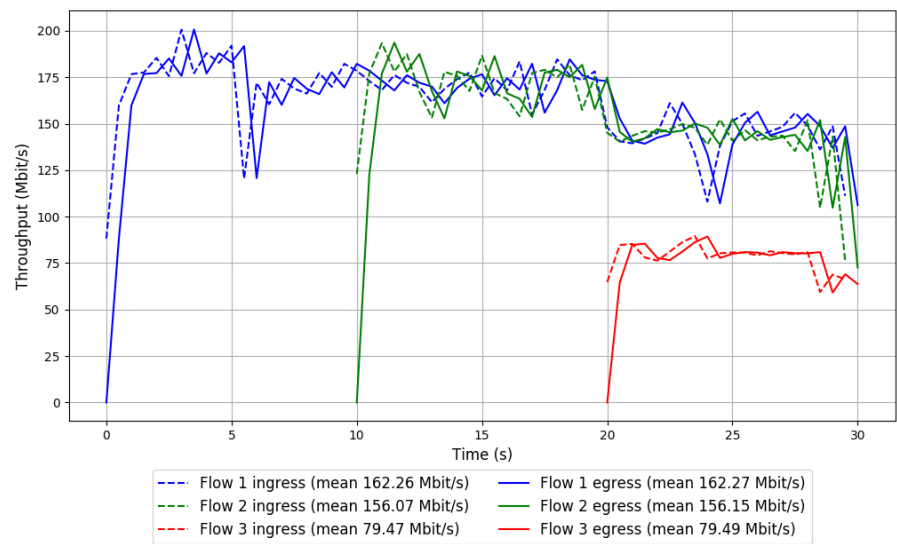
-- Flow 3:

Average throughput: 79.49 Mbit/s

95th percentile per-packet one-way delay: 1.186 ms

Loss rate: 0.16%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-06-06 04:44:24

End at: 2018-06-06 04:44:54

Local clock offset: 1.72 ms

Remote clock offset: 0.07 ms

Below is generated by plot.py at 2018-06-06 08:14:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 301.46 Mbit/s

95th percentile per-packet one-way delay: 1.134 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 168.75 Mbit/s

95th percentile per-packet one-way delay: 1.123 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 152.76 Mbit/s

95th percentile per-packet one-way delay: 1.146 ms

Loss rate: 0.07%

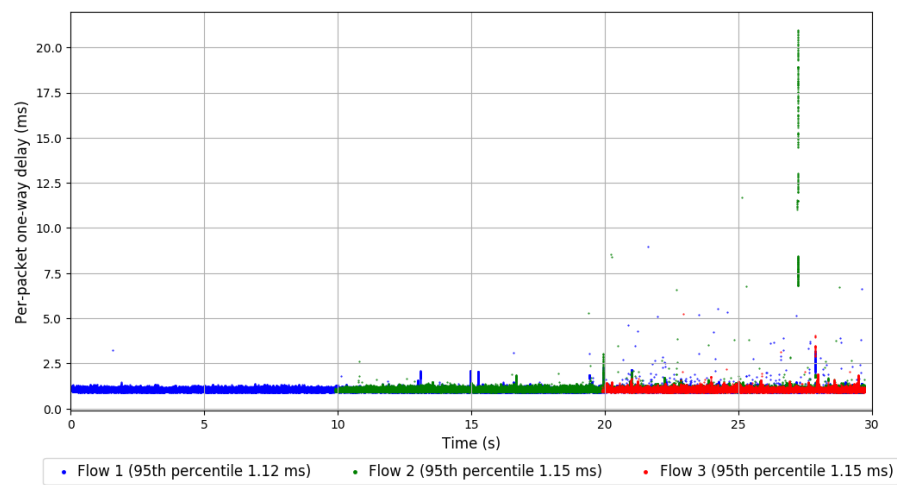
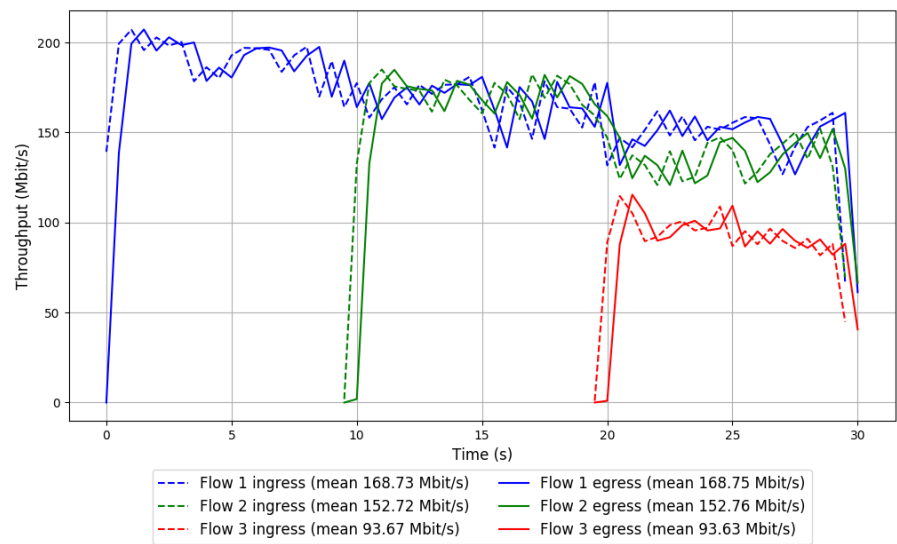
-- Flow 3:

Average throughput: 93.63 Mbit/s

95th percentile per-packet one-way delay: 1.149 ms

Loss rate: 0.23%

Run 5: Report of Indigo — Data Link

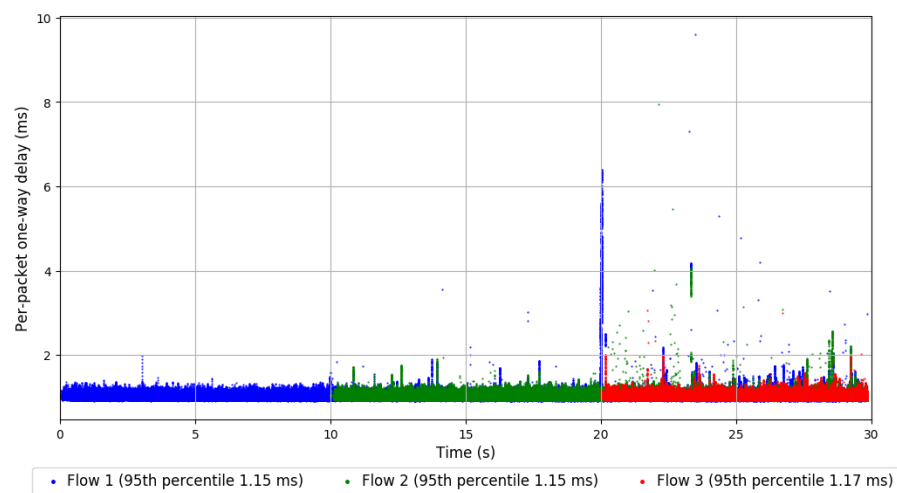
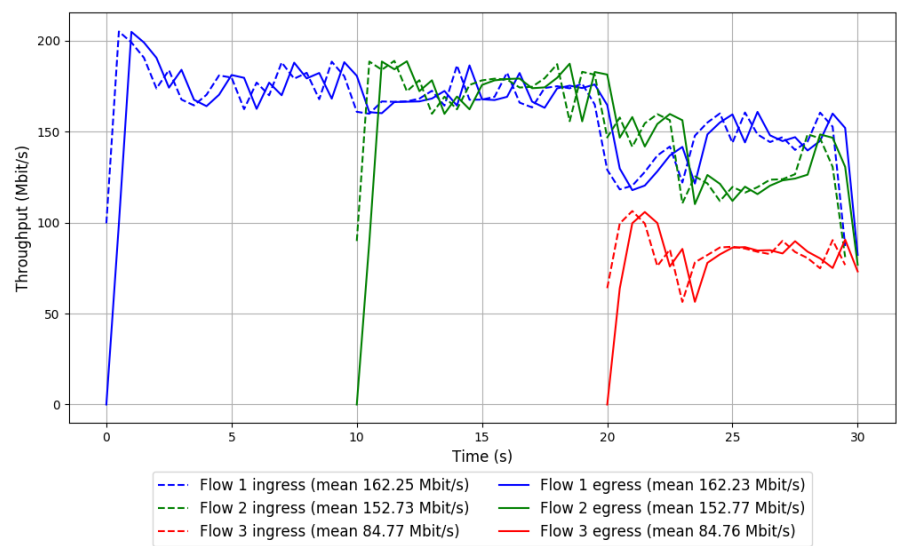


Run 6: Statistics of Indigo

Start at: 2018-06-06 05:09:33
End at: 2018-06-06 05:10:03
Local clock offset: 2.201 ms
Remote clock offset: -0.531 ms

Below is generated by plot.py at 2018-06-06 08:14:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 291.63 Mbit/s
95th percentile per-packet one-way delay: 1.151 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 162.23 Mbit/s
95th percentile per-packet one-way delay: 1.146 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 152.77 Mbit/s
95th percentile per-packet one-way delay: 1.153 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 84.76 Mbit/s
95th percentile per-packet one-way delay: 1.170 ms
Loss rate: 0.21%

Run 6: Report of Indigo — Data Link

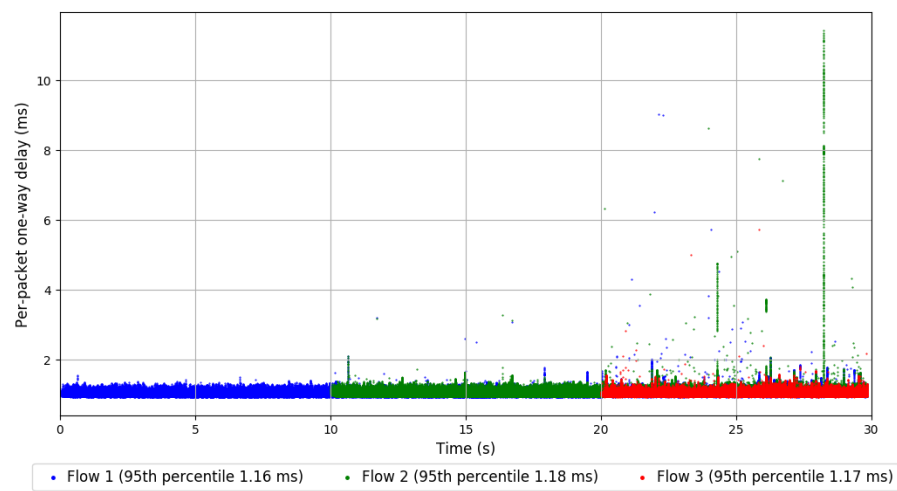
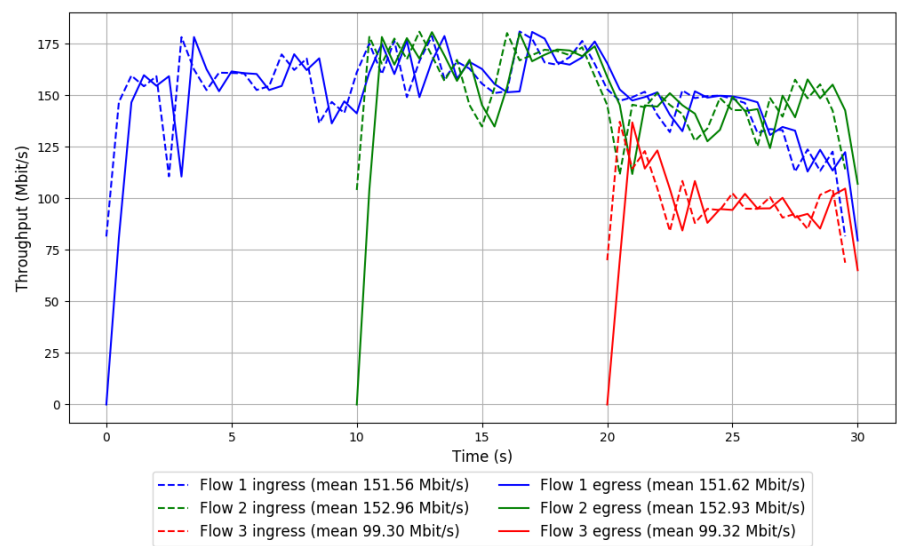


Run 7: Statistics of Indigo

Start at: 2018-06-06 05:34:53
End at: 2018-06-06 05:35:23
Local clock offset: 1.927 ms
Remote clock offset: -0.522 ms

Below is generated by plot.py at 2018-06-06 08:14:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 285.97 Mbit/s
95th percentile per-packet one-way delay: 1.168 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 151.62 Mbit/s
95th percentile per-packet one-way delay: 1.158 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 152.93 Mbit/s
95th percentile per-packet one-way delay: 1.180 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 99.32 Mbit/s
95th percentile per-packet one-way delay: 1.173 ms
Loss rate: 0.19%

Run 7: Report of Indigo — Data Link

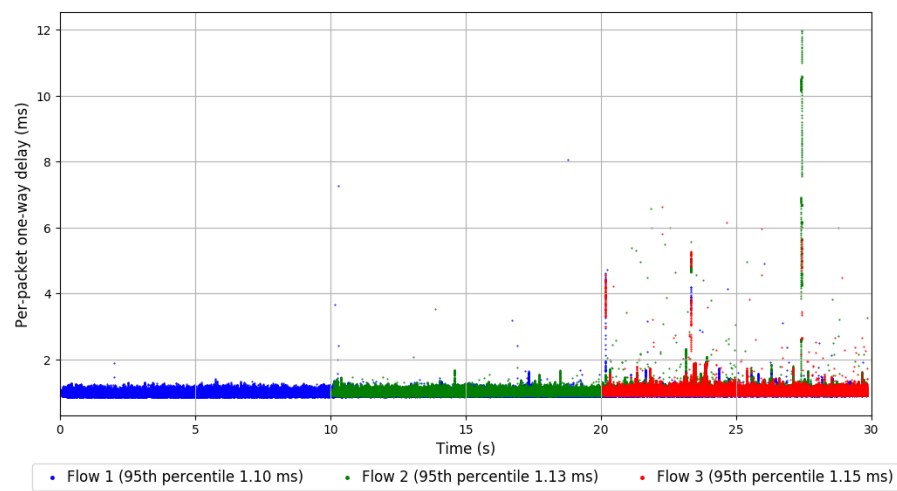
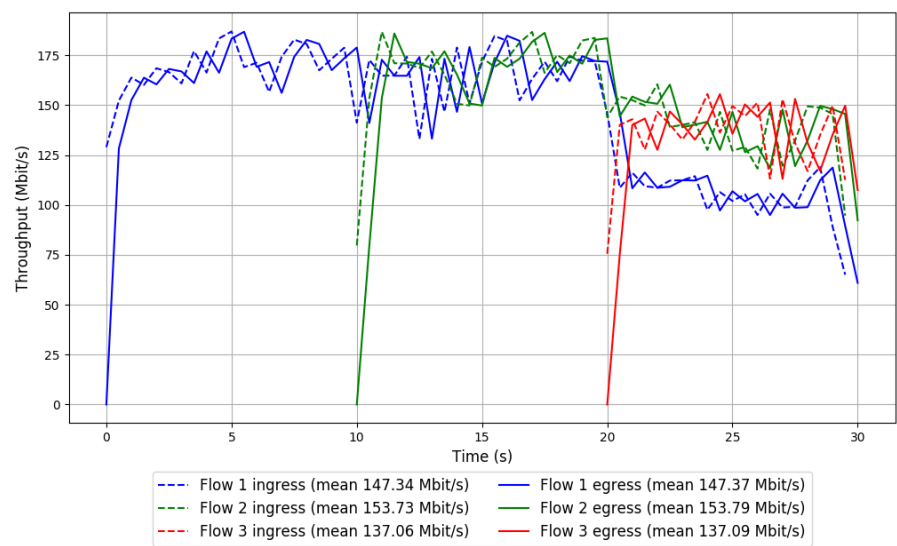


Run 8: Statistics of Indigo

Start at: 2018-06-06 06:00:09
End at: 2018-06-06 06:00:39
Local clock offset: 1.513 ms
Remote clock offset: -0.239 ms

Below is generated by plot.py at 2018-06-06 08:14:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 294.68 Mbit/s
95th percentile per-packet one-way delay: 1.120 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 147.37 Mbit/s
95th percentile per-packet one-way delay: 1.097 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 153.79 Mbit/s
95th percentile per-packet one-way delay: 1.132 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 137.09 Mbit/s
95th percentile per-packet one-way delay: 1.154 ms
Loss rate: 0.19%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-06-06 06:25:34

End at: 2018-06-06 06:26:04

Local clock offset: 0.753 ms

Remote clock offset: 0.145 ms

Below is generated by plot.py at 2018-06-06 08:14:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 295.30 Mbit/s

95th percentile per-packet one-way delay: 1.296 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 152.50 Mbit/s

95th percentile per-packet one-way delay: 1.276 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 147.46 Mbit/s

95th percentile per-packet one-way delay: 1.308 ms

Loss rate: 0.08%

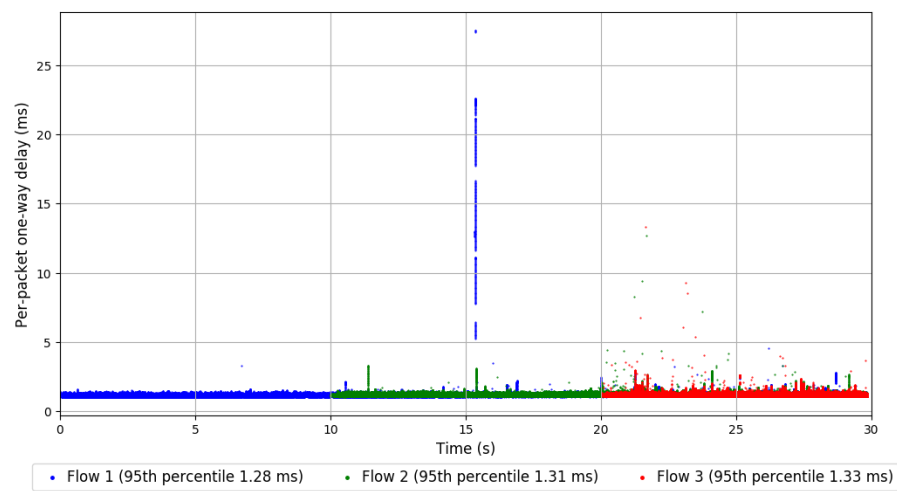
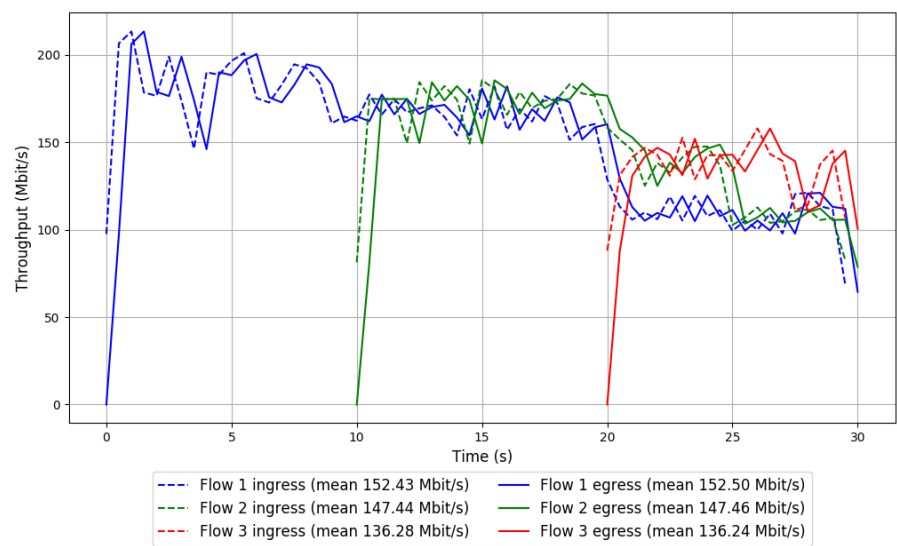
-- Flow 3:

Average throughput: 136.24 Mbit/s

95th percentile per-packet one-way delay: 1.330 ms

Loss rate: 0.25%

Run 9: Report of Indigo — Data Link

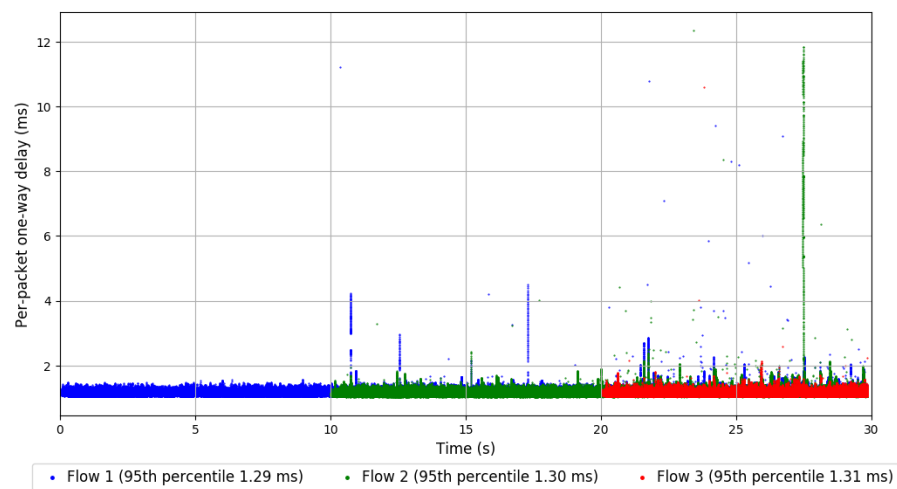
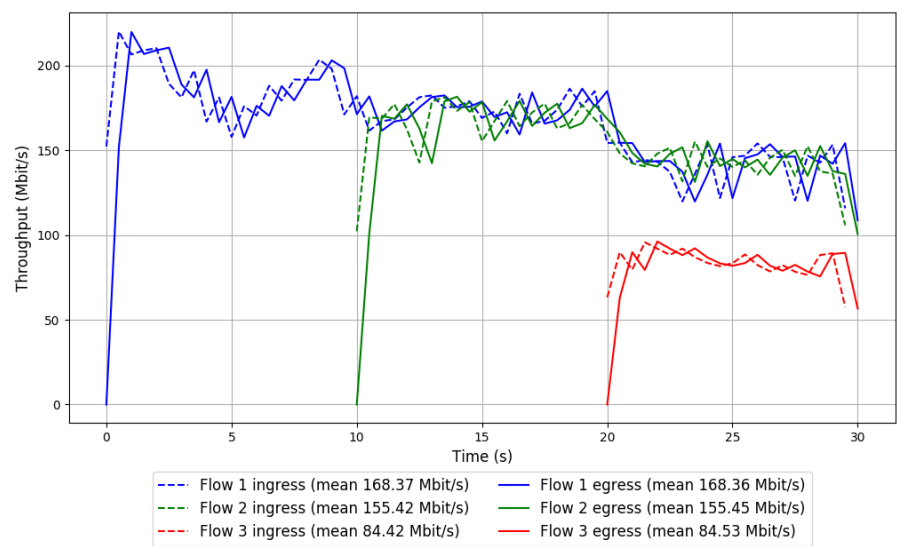


Run 10: Statistics of Indigo

Start at: 2018-06-06 06:50:49
End at: 2018-06-06 06:51:19
Local clock offset: -0.242 ms
Remote clock offset: -0.082 ms

Below is generated by plot.py at 2018-06-06 08:15:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 299.41 Mbit/s
95th percentile per-packet one-way delay: 1.294 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 168.36 Mbit/s
95th percentile per-packet one-way delay: 1.290 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 155.45 Mbit/s
95th percentile per-packet one-way delay: 1.301 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 84.53 Mbit/s
95th percentile per-packet one-way delay: 1.308 ms
Loss rate: 0.06%

Run 10: Report of Indigo — Data Link



Run 1: Statistics of LEDBAT

Start at: 2018-06-06 03:01:36

End at: 2018-06-06 03:02:06

Local clock offset: 0.073 ms

Remote clock offset: 0.073 ms

Below is generated by plot.py at 2018-06-06 08:17:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 507.07 Mbit/s

95th percentile per-packet one-way delay: 1.800 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 288.89 Mbit/s

95th percentile per-packet one-way delay: 1.659 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 225.90 Mbit/s

95th percentile per-packet one-way delay: 1.966 ms

Loss rate: 0.11%

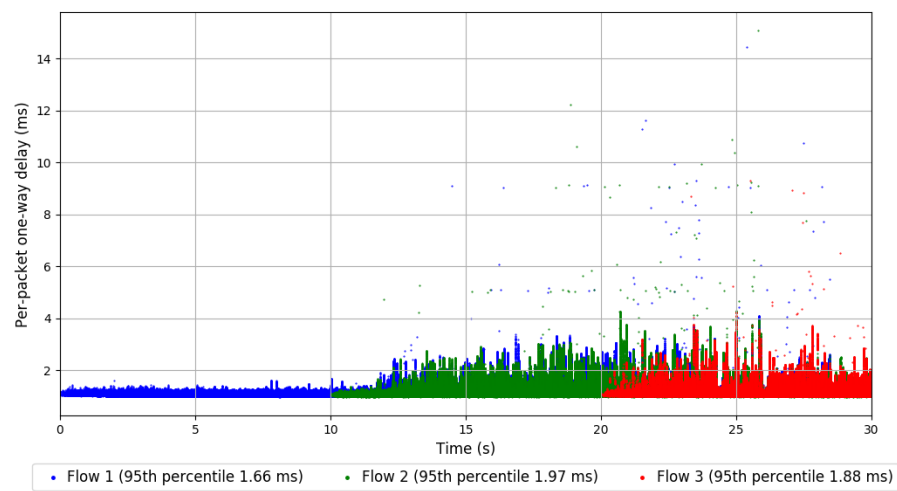
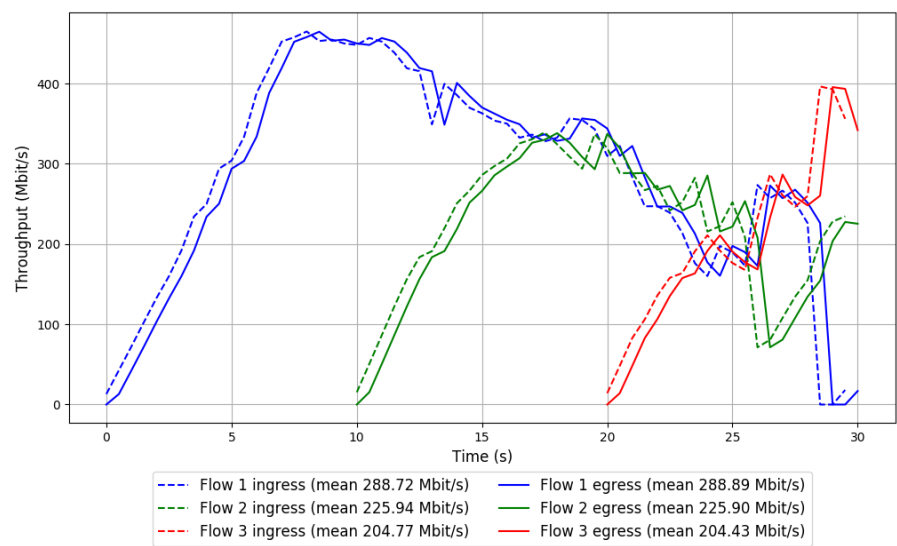
-- Flow 3:

Average throughput: 204.43 Mbit/s

95th percentile per-packet one-way delay: 1.878 ms

Loss rate: 0.35%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-06-06 03:26:55

End at: 2018-06-06 03:27:25

Local clock offset: 0.548 ms

Remote clock offset: 0.559 ms

Below is generated by plot.py at 2018-06-06 08:17:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 496.07 Mbit/s

95th percentile per-packet one-way delay: 1.827 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 285.92 Mbit/s

95th percentile per-packet one-way delay: 1.753 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 235.44 Mbit/s

95th percentile per-packet one-way delay: 1.909 ms

Loss rate: 0.10%

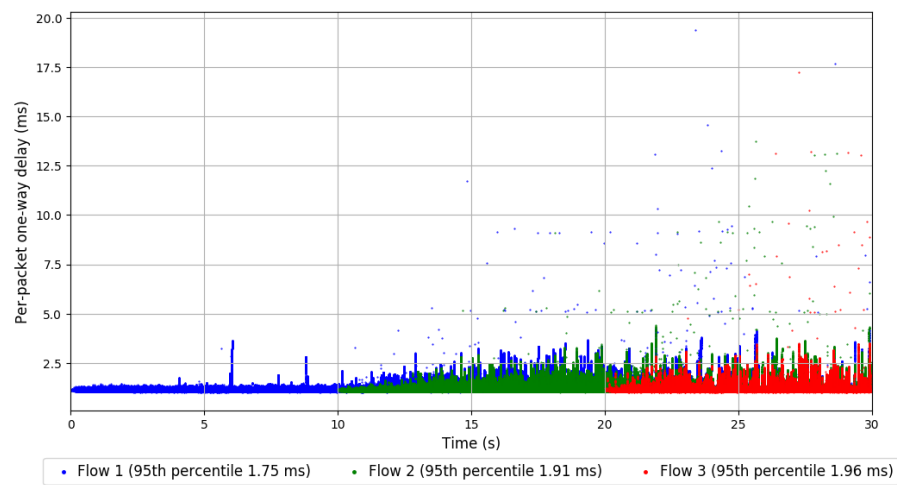
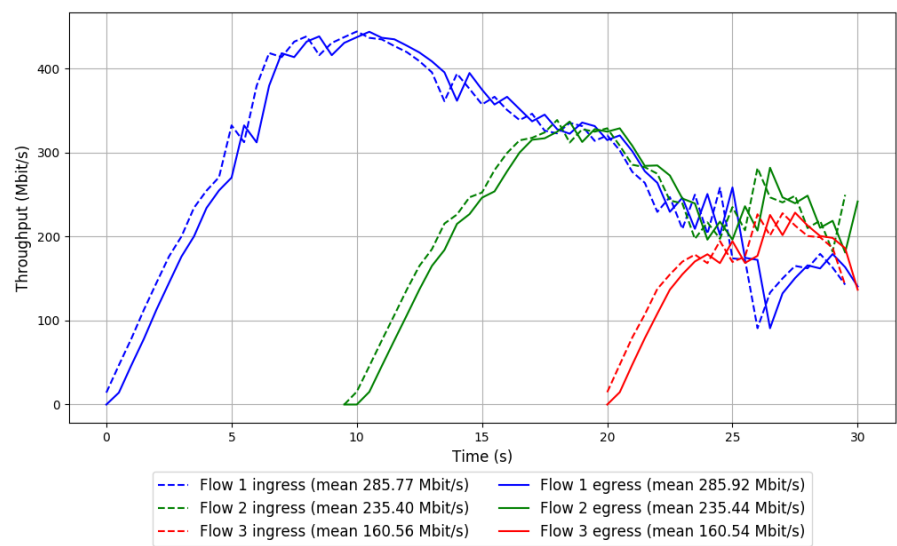
-- Flow 3:

Average throughput: 160.54 Mbit/s

95th percentile per-packet one-way delay: 1.957 ms

Loss rate: 0.21%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-06-06 03:52:03

End at: 2018-06-06 03:52:33

Local clock offset: 0.958 ms

Remote clock offset: 0.347 ms

Below is generated by plot.py at 2018-06-06 08:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 507.63 Mbit/s

95th percentile per-packet one-way delay: 1.797 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 291.30 Mbit/s

95th percentile per-packet one-way delay: 1.719 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 236.83 Mbit/s

95th percentile per-packet one-way delay: 1.888 ms

Loss rate: 0.14%

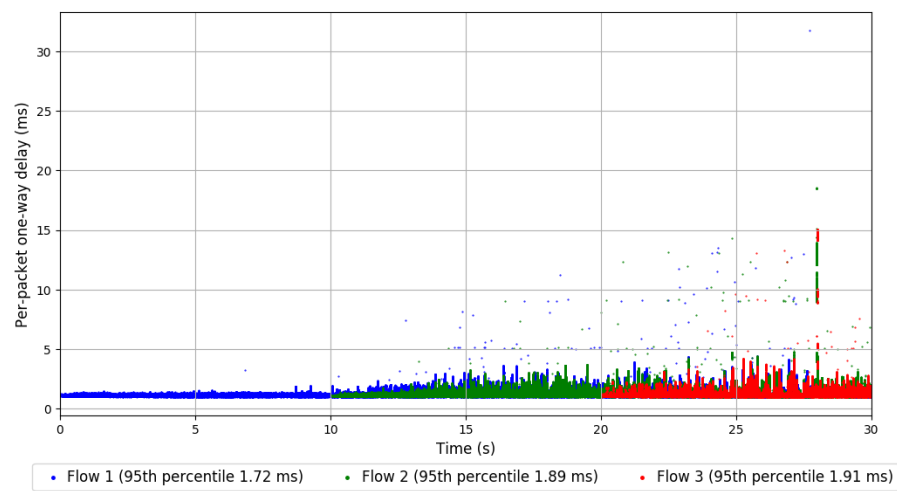
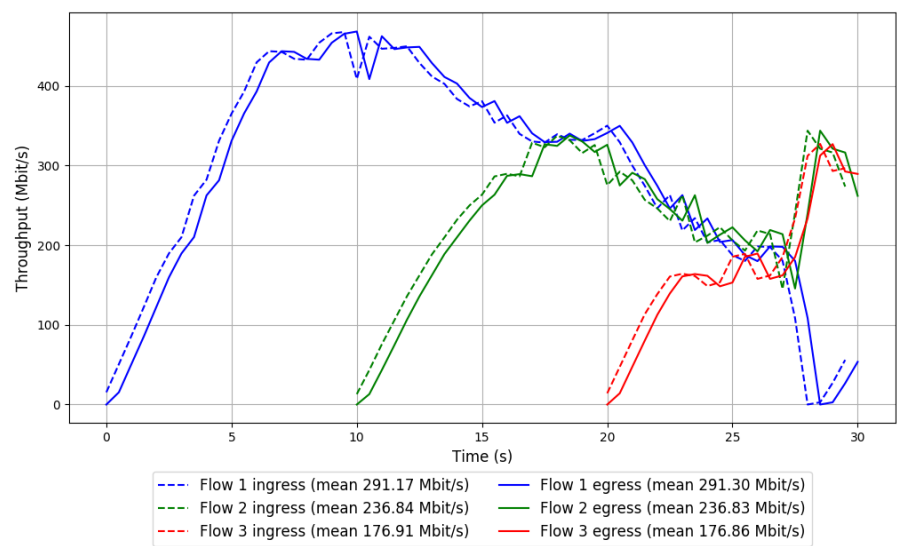
-- Flow 3:

Average throughput: 176.86 Mbit/s

95th percentile per-packet one-way delay: 1.906 ms

Loss rate: 0.23%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-06-06 04:17:23

End at: 2018-06-06 04:17:53

Local clock offset: 1.657 ms

Remote clock offset: 0.286 ms

Below is generated by plot.py at 2018-06-06 08:20:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 494.84 Mbit/s

95th percentile per-packet one-way delay: 1.729 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 267.25 Mbit/s

95th percentile per-packet one-way delay: 1.567 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 251.11 Mbit/s

95th percentile per-packet one-way delay: 1.905 ms

Loss rate: 0.07%

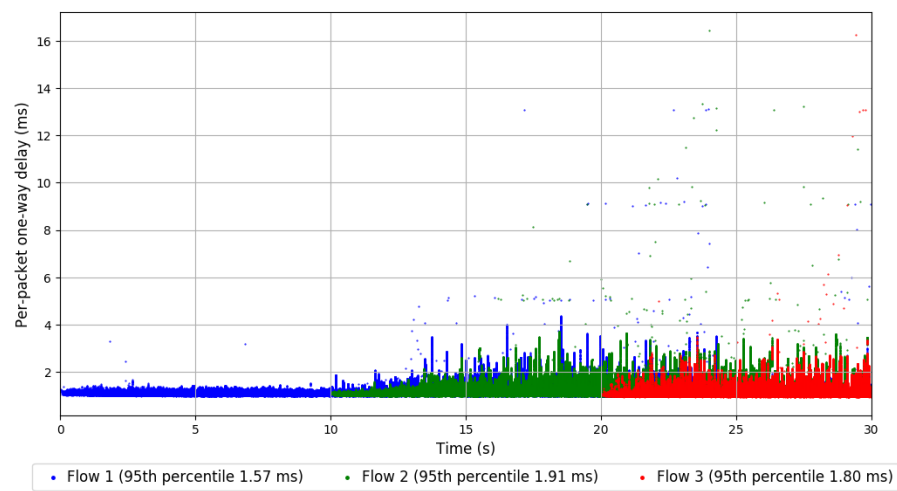
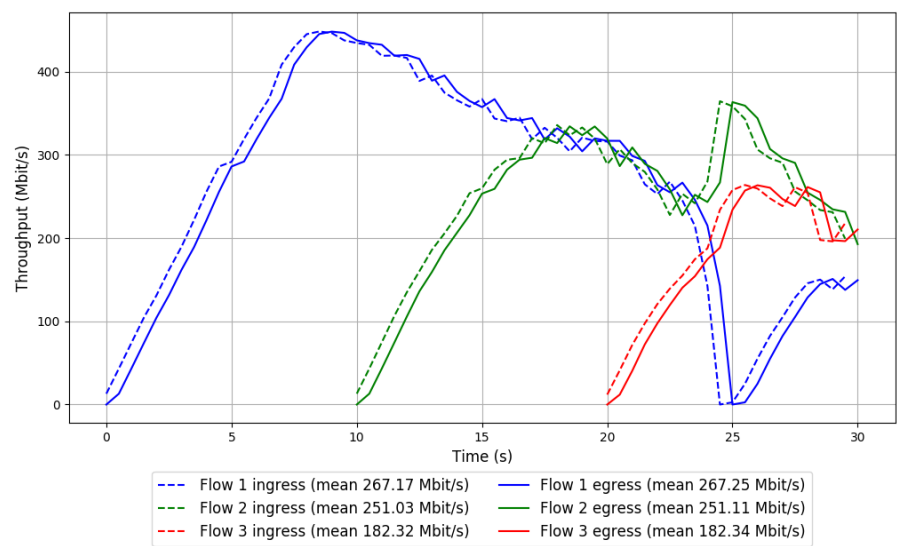
-- Flow 3:

Average throughput: 182.34 Mbit/s

95th percentile per-packet one-way delay: 1.798 ms

Loss rate: 0.21%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-06-06 04:42:44

End at: 2018-06-06 04:43:14

Local clock offset: 1.784 ms

Remote clock offset: 0.139 ms

Below is generated by plot.py at 2018-06-06 08:20:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 503.17 Mbit/s

95th percentile per-packet one-way delay: 1.739 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 311.93 Mbit/s

95th percentile per-packet one-way delay: 1.665 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 194.75 Mbit/s

95th percentile per-packet one-way delay: 1.839 ms

Loss rate: 0.12%

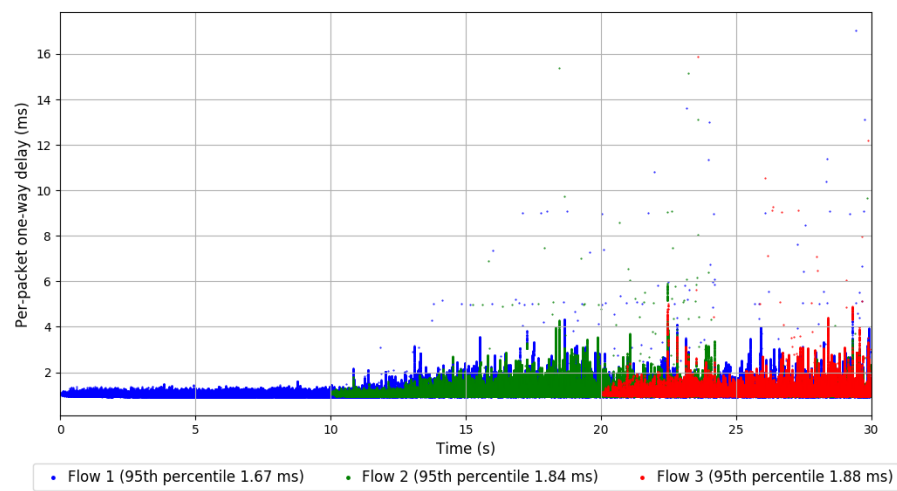
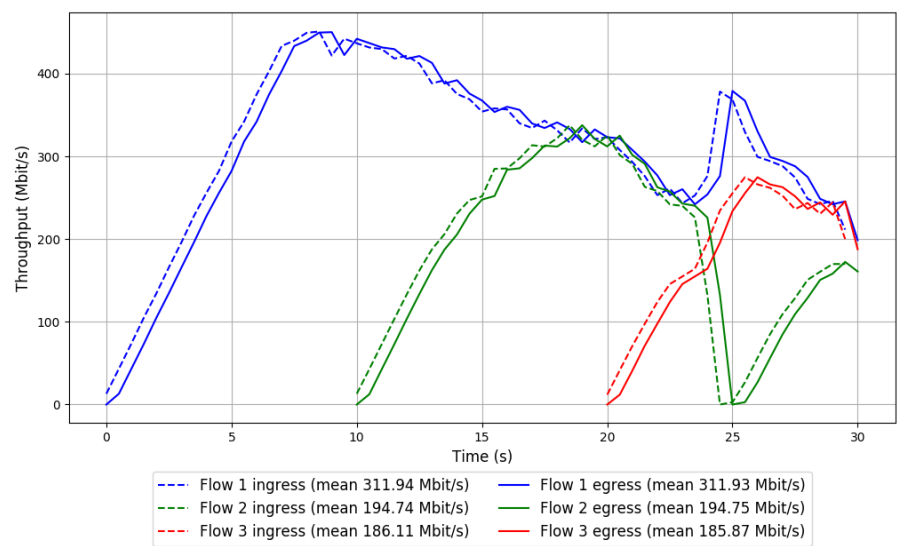
-- Flow 3:

Average throughput: 185.87 Mbit/s

95th percentile per-packet one-way delay: 1.879 ms

Loss rate: 0.33%

Run 5: Report of LEDBAT — Data Link

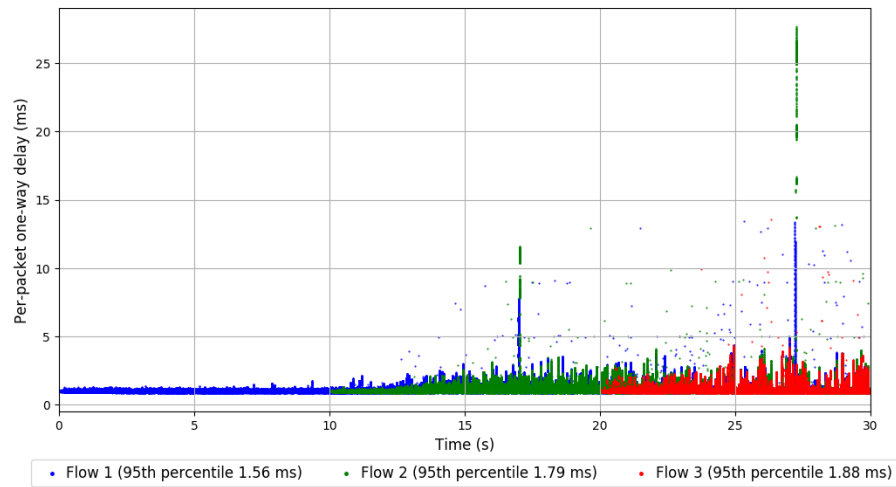
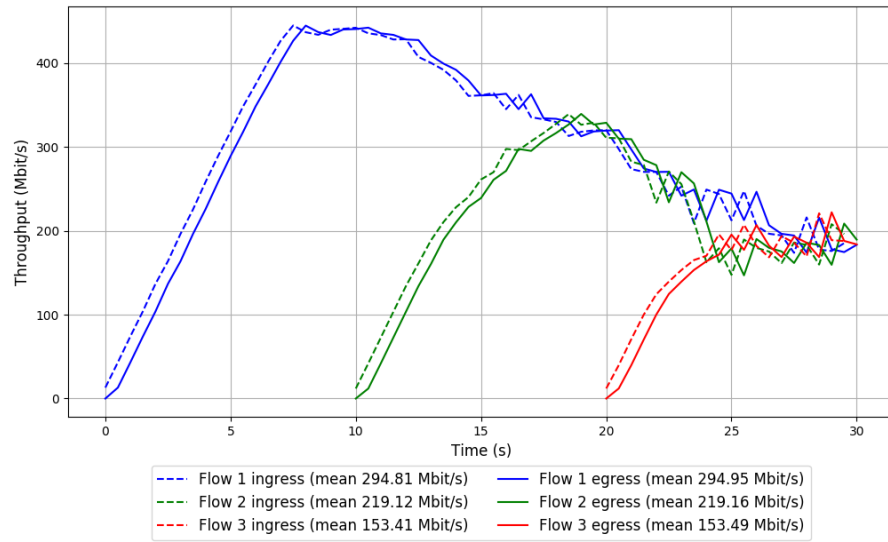


Run 6: Statistics of LEDBAT

Start at: 2018-06-06 05:07:53
End at: 2018-06-06 05:08:23
Local clock offset: 2.158 ms
Remote clock offset: -0.459 ms

Below is generated by plot.py at 2018-06-06 08:20:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 491.65 Mbit/s
95th percentile per-packet one-way delay: 1.674 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 294.95 Mbit/s
95th percentile per-packet one-way delay: 1.559 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 219.16 Mbit/s
95th percentile per-packet one-way delay: 1.795 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 153.49 Mbit/s
95th percentile per-packet one-way delay: 1.877 ms
Loss rate: 0.16%

Run 6: Report of LEDBAT — Data Link

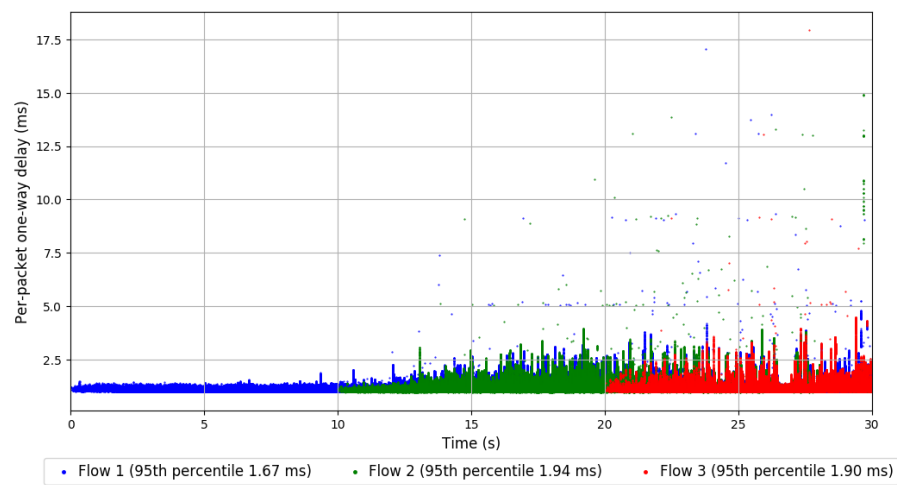
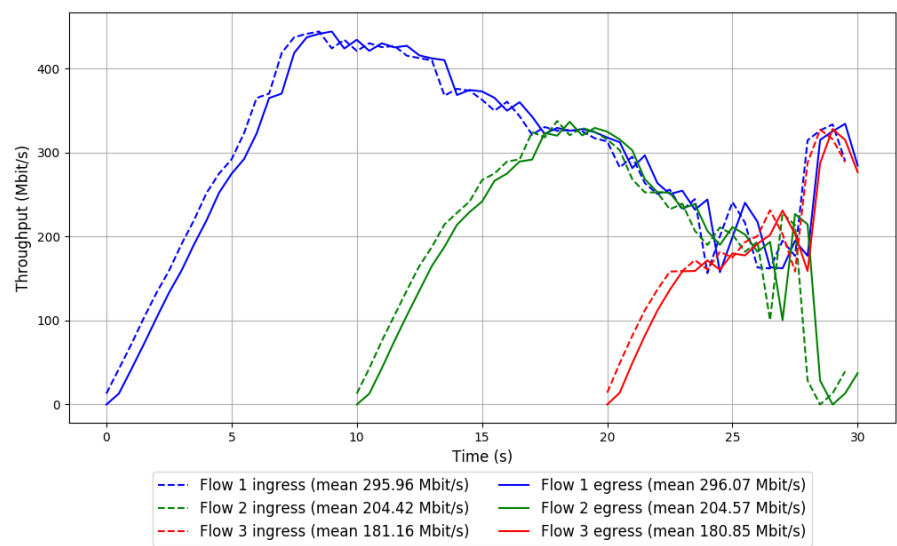


Run 7: Statistics of LEDBAT

Start at: 2018-06-06 05:33:14
End at: 2018-06-06 05:33:44
Local clock offset: 2.056 ms
Remote clock offset: -0.471 ms

Below is generated by plot.py at 2018-06-06 08:20:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 492.22 Mbit/s
95th percentile per-packet one-way delay: 1.777 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 296.07 Mbit/s
95th percentile per-packet one-way delay: 1.671 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 204.57 Mbit/s
95th percentile per-packet one-way delay: 1.937 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 180.85 Mbit/s
95th percentile per-packet one-way delay: 1.904 ms
Loss rate: 0.37%

Run 7: Report of LEDBAT — Data Link

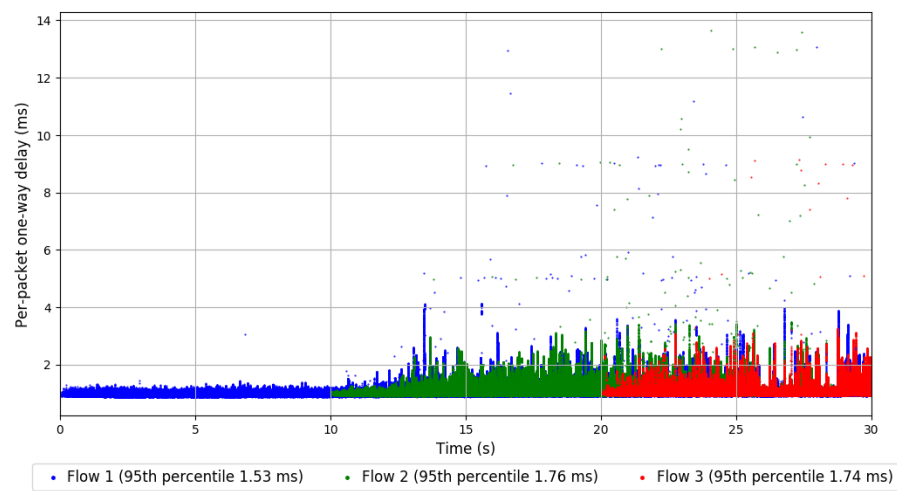
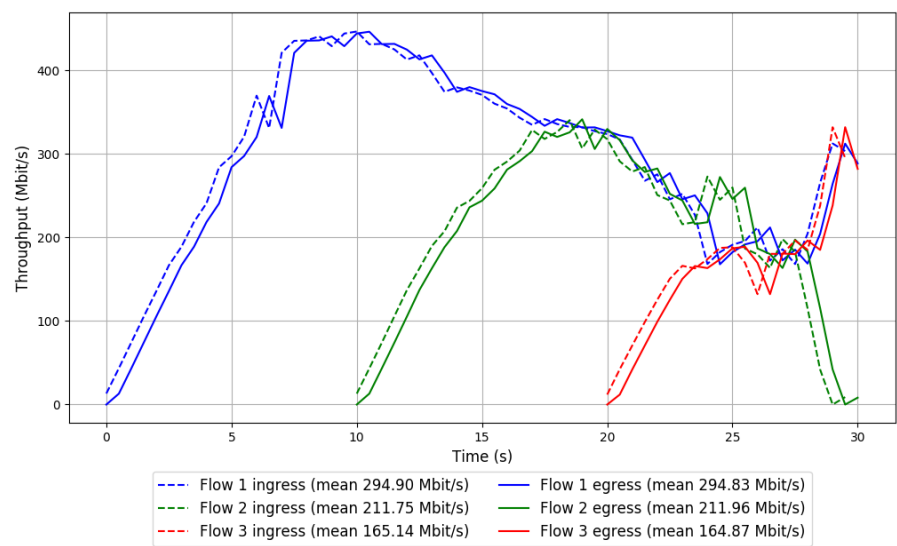


Run 8: Statistics of LEDBAT

Start at: 2018-06-06 05:58:29
End at: 2018-06-06 05:58:59
Local clock offset: 1.546 ms
Remote clock offset: -0.323 ms

Below is generated by plot.py at 2018-06-06 08:20:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 490.50 Mbit/s
95th percentile per-packet one-way delay: 1.626 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 294.83 Mbit/s
95th percentile per-packet one-way delay: 1.526 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 211.96 Mbit/s
95th percentile per-packet one-way delay: 1.760 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 164.87 Mbit/s
95th percentile per-packet one-way delay: 1.741 ms
Loss rate: 0.40%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-06-06 06:23:53

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

Local clock offset: 0.918 ms

Remote clock offset: 0.15 ms

Below is generated by plot.py at 2018-06-06 08:23:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 504.80 Mbit/s

95th percentile per-packet one-way delay: 1.888 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 274.04 Mbit/s

95th percentile per-packet one-way delay: 1.746 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 255.27 Mbit/s

95th percentile per-packet one-way delay: 2.052 ms

Loss rate: 0.12%

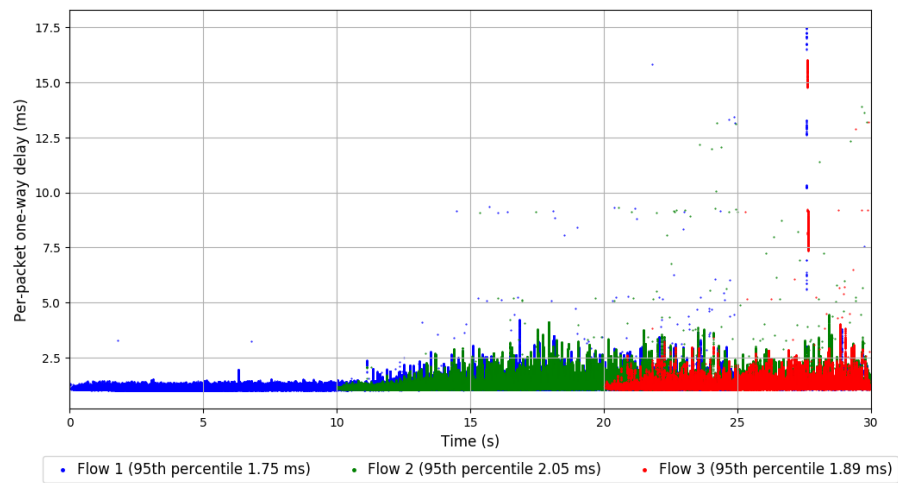
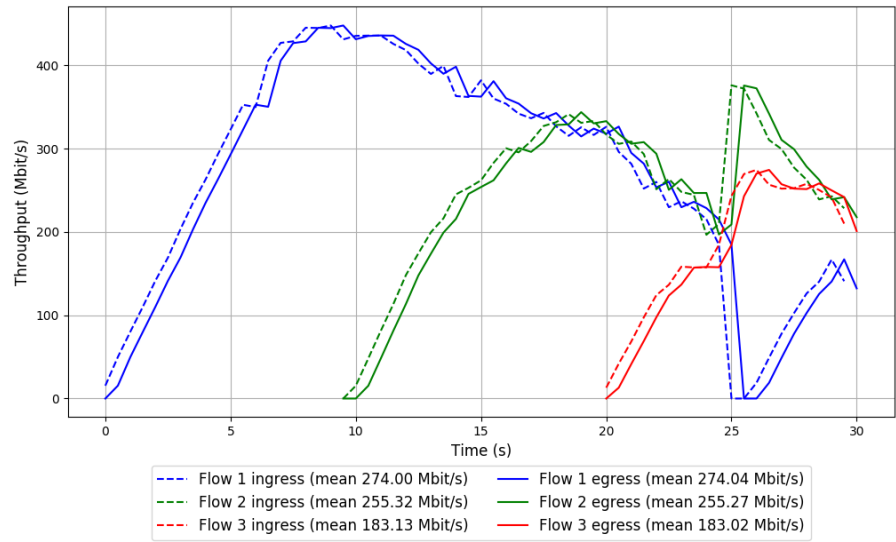
-- Flow 3:

Average throughput: 183.02 Mbit/s

95th percentile per-packet one-way delay: 1.892 ms

Loss rate: 0.26%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

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

End at: 2018-06-06 06:49:39

Local clock offset: -0.306 ms

Remote clock offset: -0.07 ms

Below is generated by plot.py at 2018-06-06 08:23:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 489.78 Mbit/s

95th percentile per-packet one-way delay: 1.654 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 267.99 Mbit/s

95th percentile per-packet one-way delay: 1.604 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 245.44 Mbit/s

95th percentile per-packet one-way delay: 1.720 ms

Loss rate: 0.12%

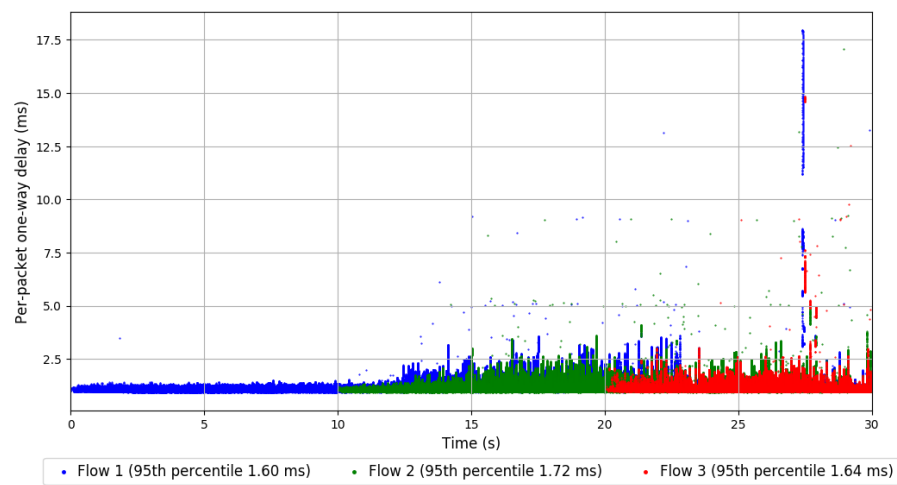
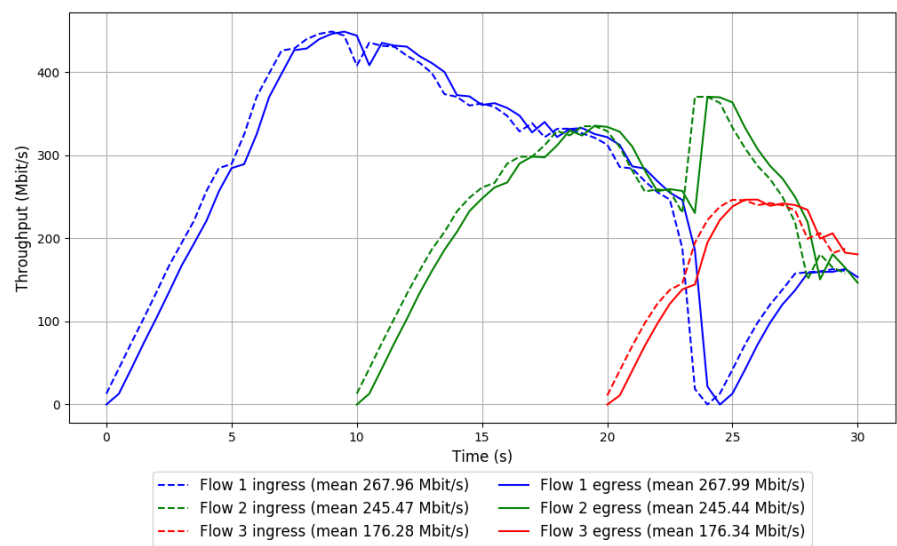
-- Flow 3:

Average throughput: 176.34 Mbit/s

95th percentile per-packet one-way delay: 1.636 ms

Loss rate: 0.21%

Run 10: Report of LEDBAT — Data Link

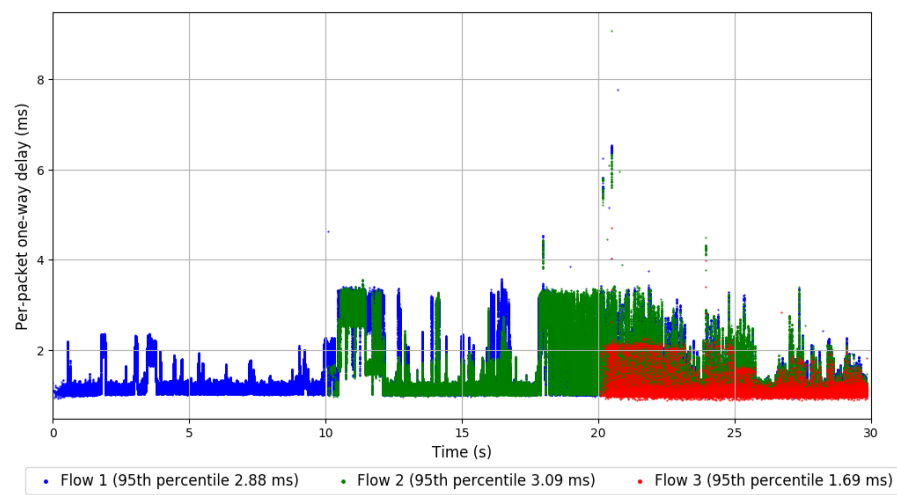
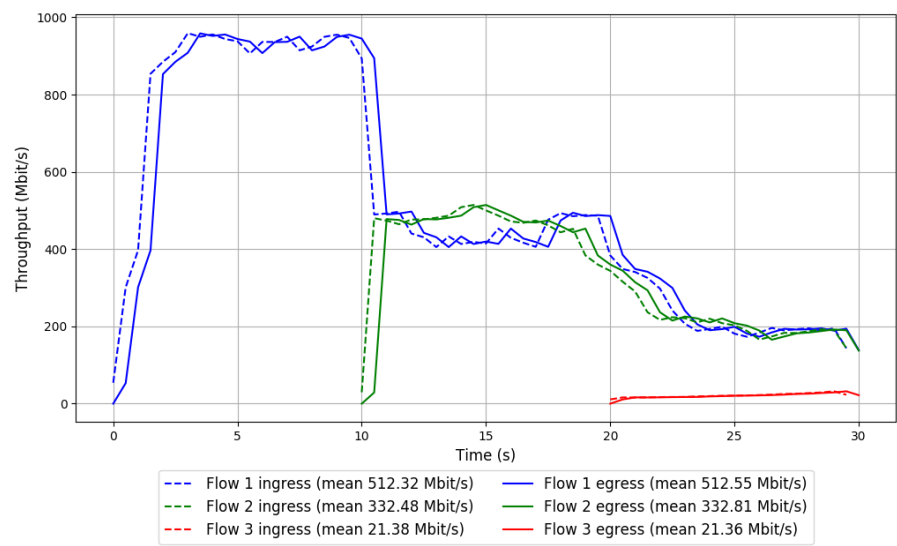


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-06-06 02:55:31
End at: 2018-06-06 02:56:01
Local clock offset: -0.095 ms
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2018-06-06 08:28:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 740.49 Mbit/s
95th percentile per-packet one-way delay: 2.984 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 512.55 Mbit/s
95th percentile per-packet one-way delay: 2.875 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 332.81 Mbit/s
95th percentile per-packet one-way delay: 3.088 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 21.36 Mbit/s
95th percentile per-packet one-way delay: 1.692 ms
Loss rate: 0.28%
```


Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-06-06 03:20:43

End at: 2018-06-06 03:21:13

Local clock offset: 0.539 ms

Remote clock offset: 0.398 ms

Below is generated by plot.py at 2018-06-06 08:29:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 873.52 Mbit/s

95th percentile per-packet one-way delay: 3.158 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 569.00 Mbit/s

95th percentile per-packet one-way delay: 3.124 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 386.74 Mbit/s

95th percentile per-packet one-way delay: 3.214 ms

Loss rate: 0.05%

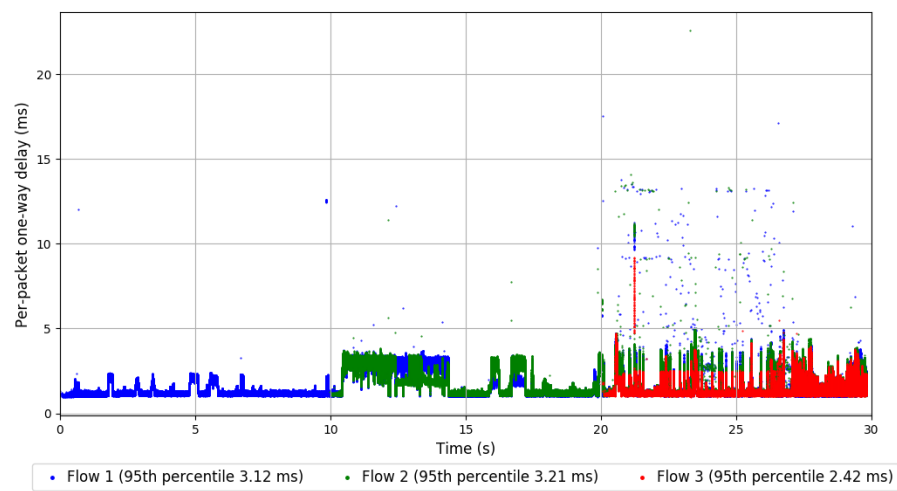
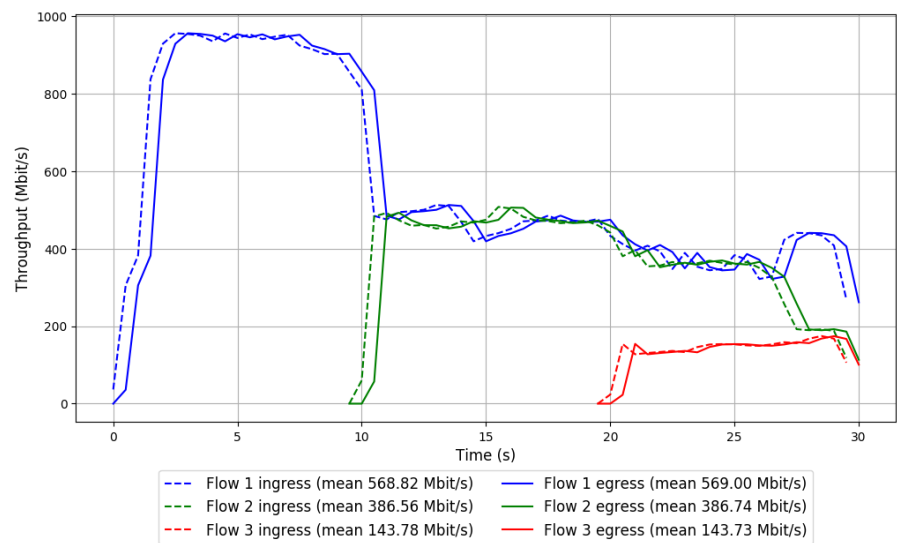
-- Flow 3:

Average throughput: 143.73 Mbit/s

95th percentile per-packet one-way delay: 2.420 ms

Loss rate: 0.23%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-06-06 03:45:58

End at: 2018-06-06 03:46:28

Local clock offset: 0.721 ms

Remote clock offset: 0.577 ms

Below is generated by plot.py at 2018-06-06 08:29:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 835.97 Mbit/s

95th percentile per-packet one-way delay: 3.287 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 444.25 Mbit/s

95th percentile per-packet one-way delay: 2.969 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 403.76 Mbit/s

95th percentile per-packet one-way delay: 3.439 ms

Loss rate: 0.04%

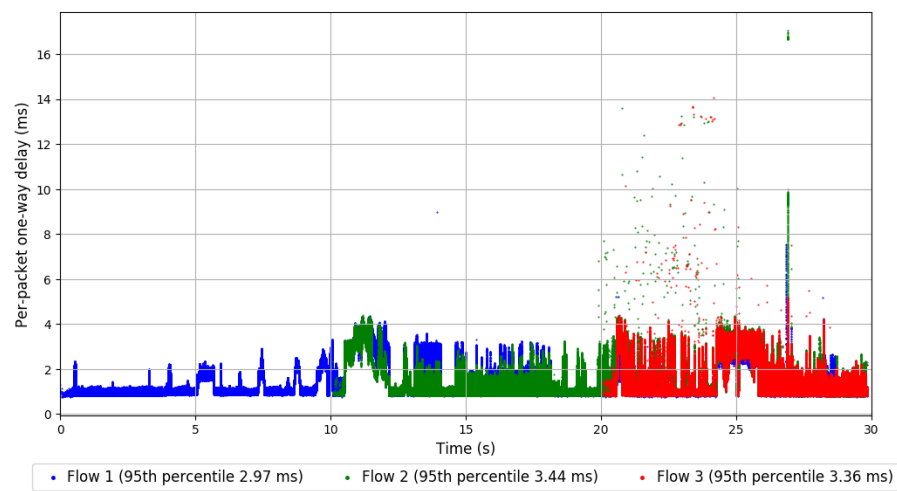
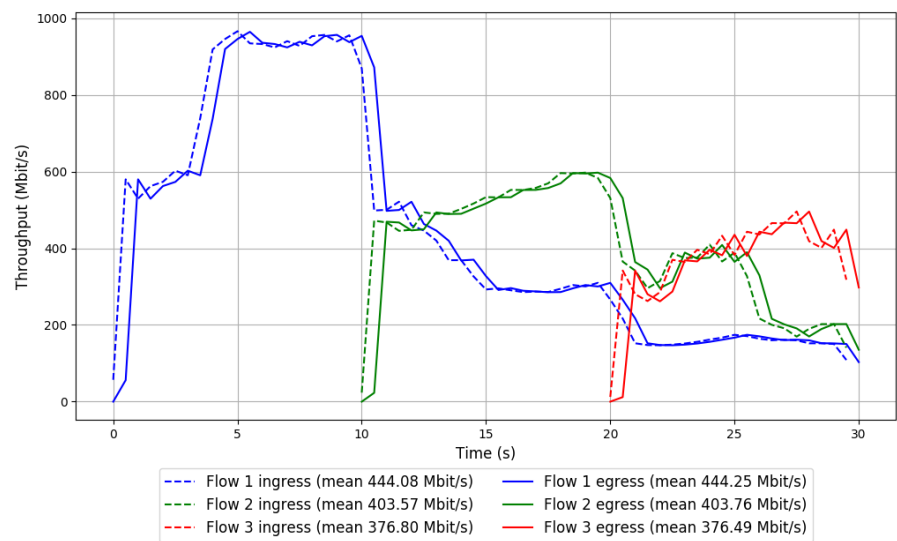
-- Flow 3:

Average throughput: 376.49 Mbit/s

95th percentile per-packet one-way delay: 3.361 ms

Loss rate: 0.28%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-06-06 04:11:17

End at: 2018-06-06 04:11:47

Local clock offset: 1.4 ms

Remote clock offset: 0.498 ms

Below is generated by plot.py at 2018-06-06 08:29:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 782.91 Mbit/s

95th percentile per-packet one-way delay: 2.184 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 622.37 Mbit/s

95th percentile per-packet one-way delay: 2.212 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 199.02 Mbit/s

95th percentile per-packet one-way delay: 1.691 ms

Loss rate: 0.08%

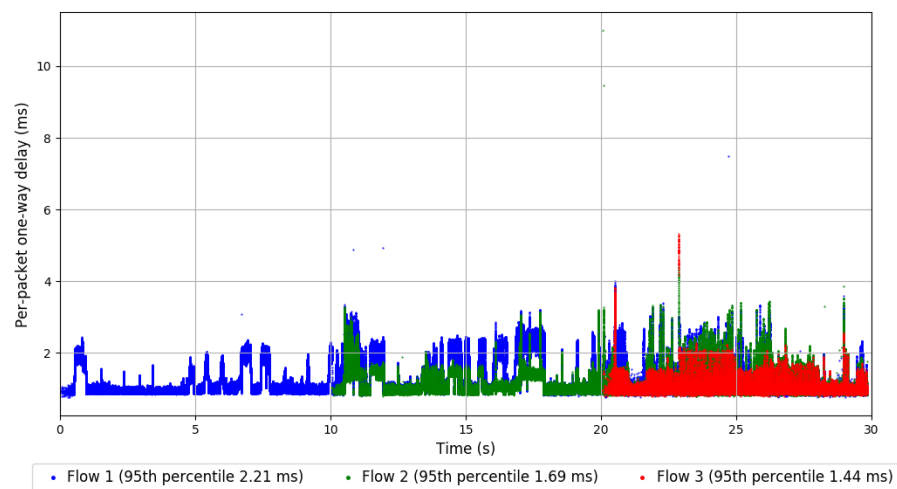
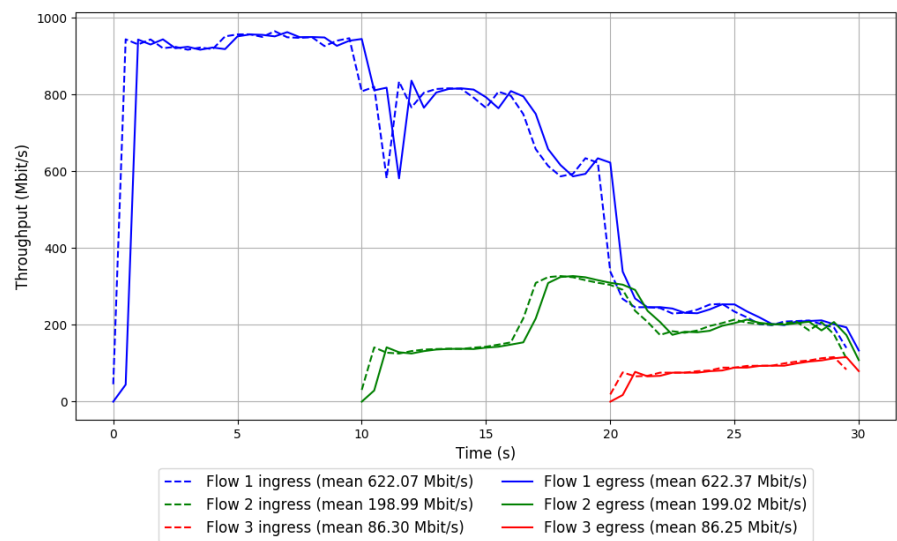
-- Flow 3:

Average throughput: 86.25 Mbit/s

95th percentile per-packet one-way delay: 1.440 ms

Loss rate: 0.26%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-06-06 04:36:35

End at: 2018-06-06 04:37:05

Local clock offset: 1.694 ms

Remote clock offset: 0.064 ms

Below is generated by plot.py at 2018-06-06 08:29:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 790.27 Mbit/s

95th percentile per-packet one-way delay: 3.123 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 510.31 Mbit/s

95th percentile per-packet one-way delay: 3.085 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 329.75 Mbit/s

95th percentile per-packet one-way delay: 3.210 ms

Loss rate: 0.06%

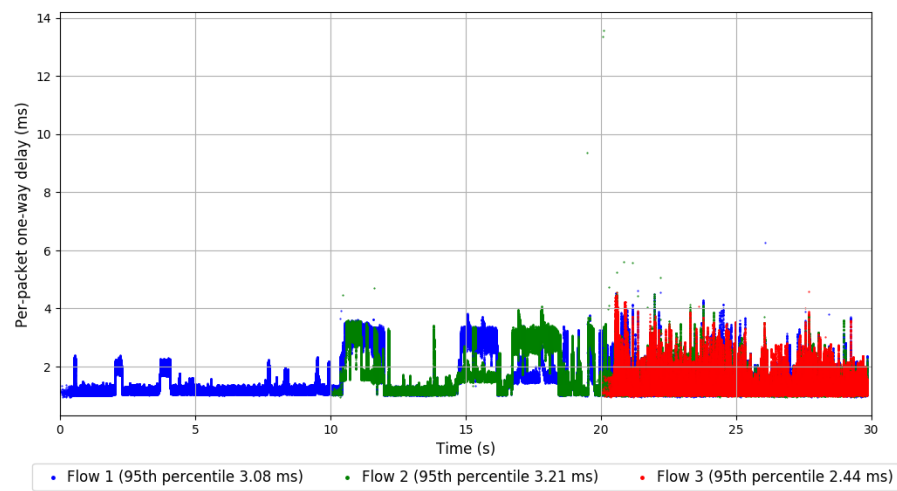
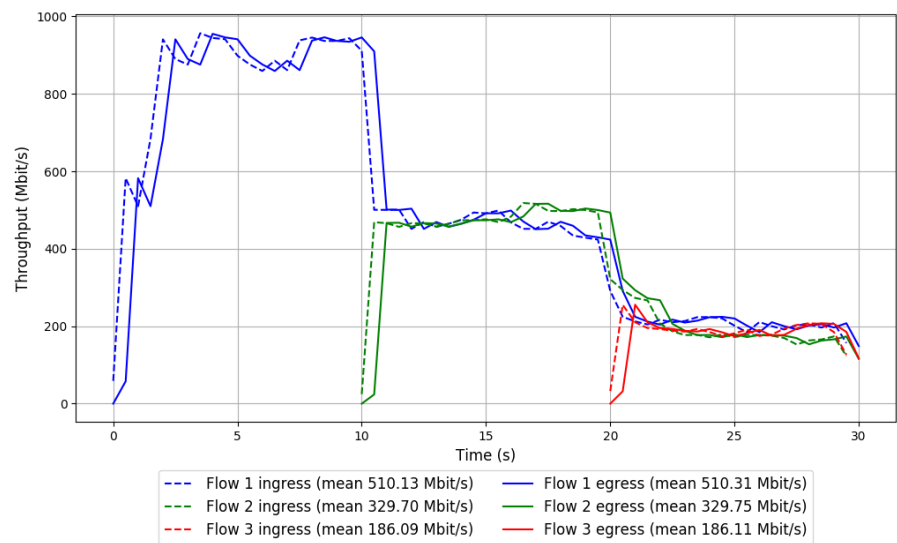
-- Flow 3:

Average throughput: 186.11 Mbit/s

95th percentile per-packet one-way delay: 2.445 ms

Loss rate: 0.25%

Run 5: Report of PCC-Allegro — Data Link

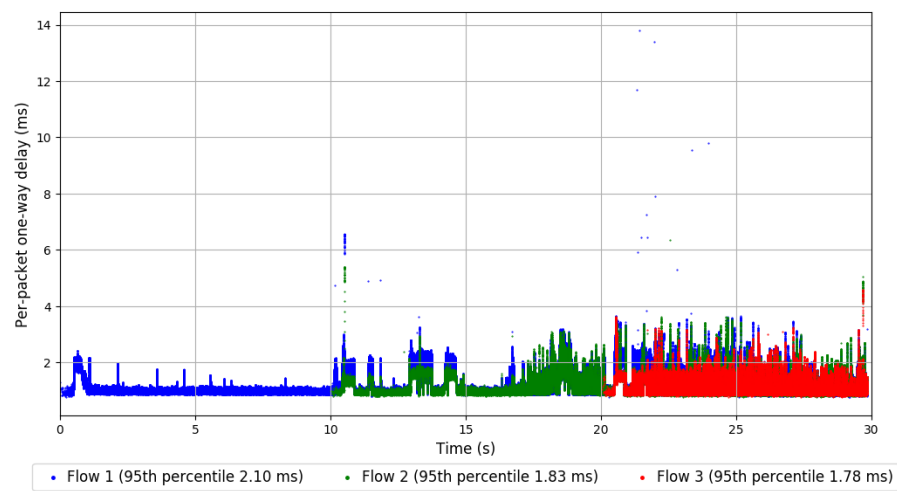
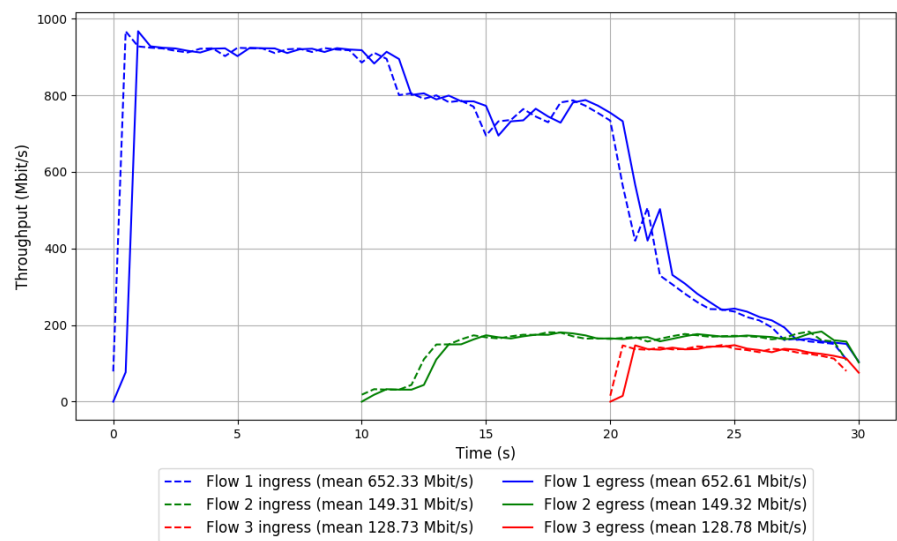


Run 6: Statistics of PCC-Allegro

Start at: 2018-06-06 05:01:48
End at: 2018-06-06 05:02:18
Local clock offset: 2.075 ms
Remote clock offset: -0.355 ms

Below is generated by plot.py at 2018-06-06 08:29:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 794.04 Mbit/s
95th percentile per-packet one-way delay: 2.081 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 652.61 Mbit/s
95th percentile per-packet one-way delay: 2.100 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 149.32 Mbit/s
95th percentile per-packet one-way delay: 1.831 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 128.78 Mbit/s
95th percentile per-packet one-way delay: 1.783 ms
Loss rate: 0.18%

Run 6: Report of PCC-Allegro — Data Link

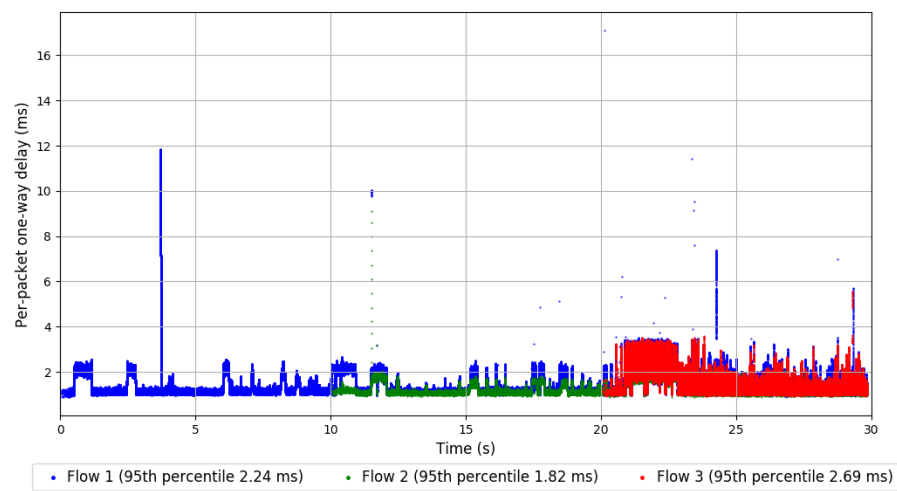
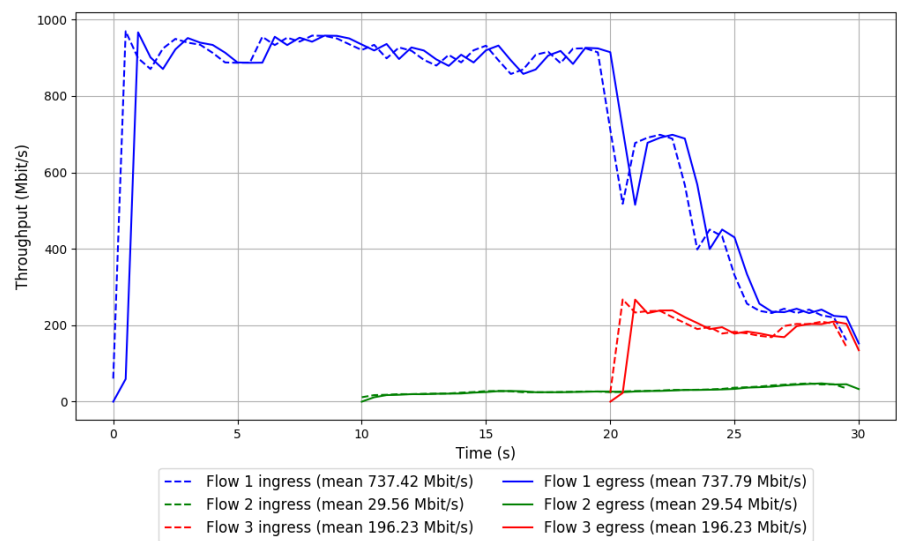


Run 7: Statistics of PCC-Allegro

Start at: 2018-06-06 05:27:06
End at: 2018-06-06 05:27:36
Local clock offset: 2.159 ms
Remote clock offset: -0.495 ms

Below is generated by plot.py at 2018-06-06 08:33:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 821.77 Mbit/s
95th percentile per-packet one-way delay: 2.250 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 737.79 Mbit/s
95th percentile per-packet one-way delay: 2.241 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 29.54 Mbit/s
95th percentile per-packet one-way delay: 1.817 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 196.23 Mbit/s
95th percentile per-packet one-way delay: 2.694 ms
Loss rate: 0.24%

Run 7: Report of PCC-Allegro — Data Link

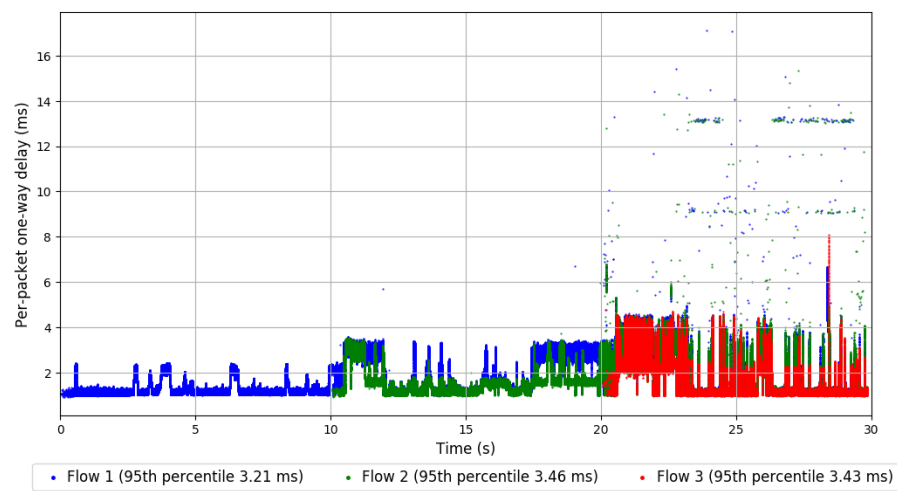
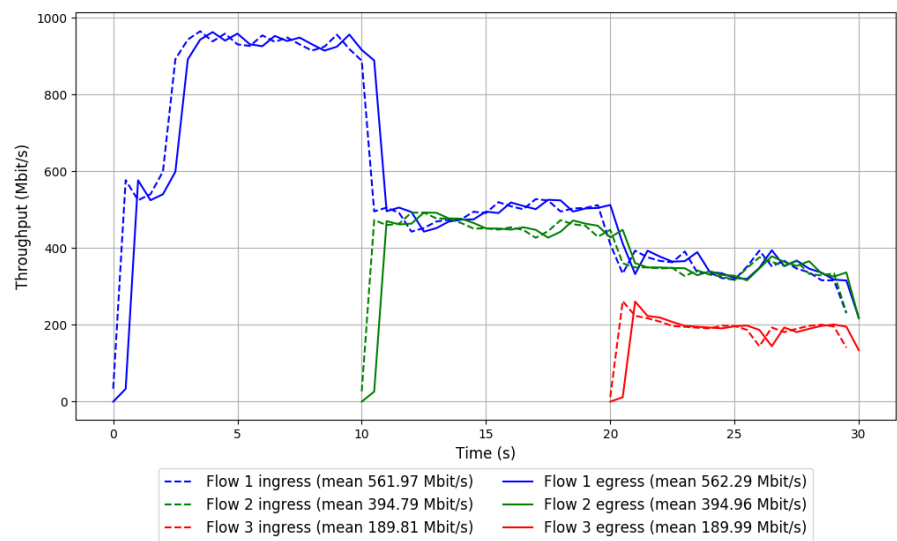


Run 8: Statistics of PCC-Allegro

Start at: 2018-06-06 05:52:25
End at: 2018-06-06 05:52:55
Local clock offset: 1.891 ms
Remote clock offset: -0.437 ms

Below is generated by plot.py at 2018-06-06 08:34:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 886.80 Mbit/s
95th percentile per-packet one-way delay: 3.292 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 562.29 Mbit/s
95th percentile per-packet one-way delay: 3.212 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 394.96 Mbit/s
95th percentile per-packet one-way delay: 3.456 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 189.99 Mbit/s
95th percentile per-packet one-way delay: 3.431 ms
Loss rate: 0.19%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-06-06 06:17:43

End at: 2018-06-06 06:18:13

Local clock offset: 1.321 ms

Remote clock offset: 0.028 ms

Below is generated by plot.py at 2018-06-06 08:37:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 812.79 Mbit/s

95th percentile per-packet one-way delay: 2.557 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 600.07 Mbit/s

95th percentile per-packet one-way delay: 2.472 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 231.29 Mbit/s

95th percentile per-packet one-way delay: 2.830 ms

Loss rate: 0.08%

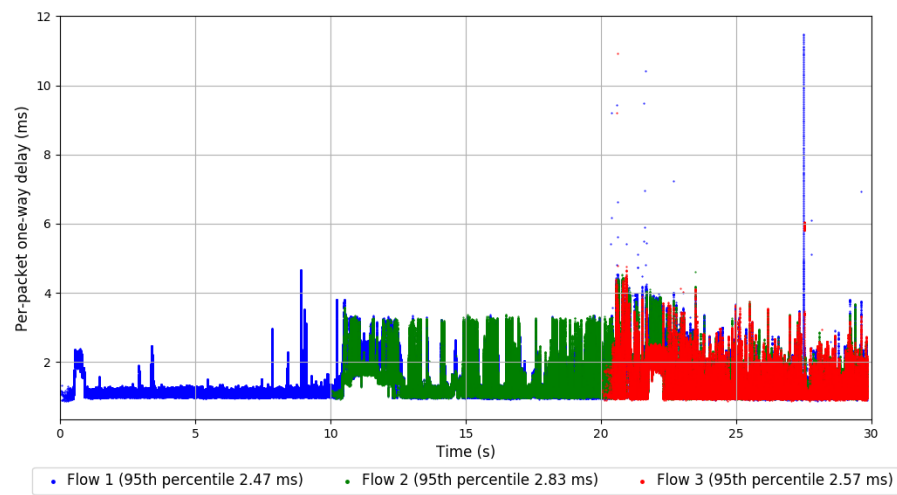
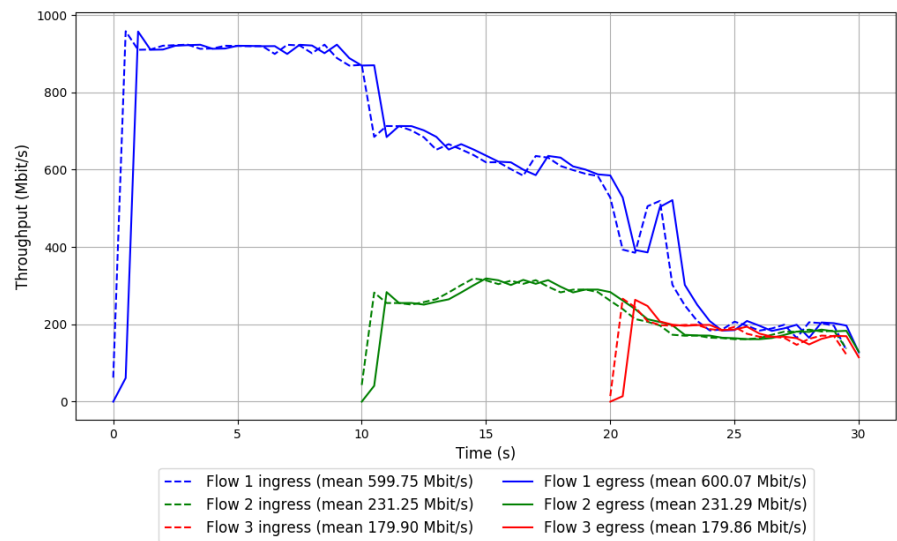
-- Flow 3:

Average throughput: 179.86 Mbit/s

95th percentile per-packet one-way delay: 2.571 ms

Loss rate: 0.23%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

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

End at: 2018-06-06 06:43:31

Local clock offset: -0.178 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-06-06 08:38:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 818.48 Mbit/s

95th percentile per-packet one-way delay: 2.724 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 605.64 Mbit/s

95th percentile per-packet one-way delay: 2.708 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 223.62 Mbit/s

95th percentile per-packet one-way delay: 2.862 ms

Loss rate: 0.08%

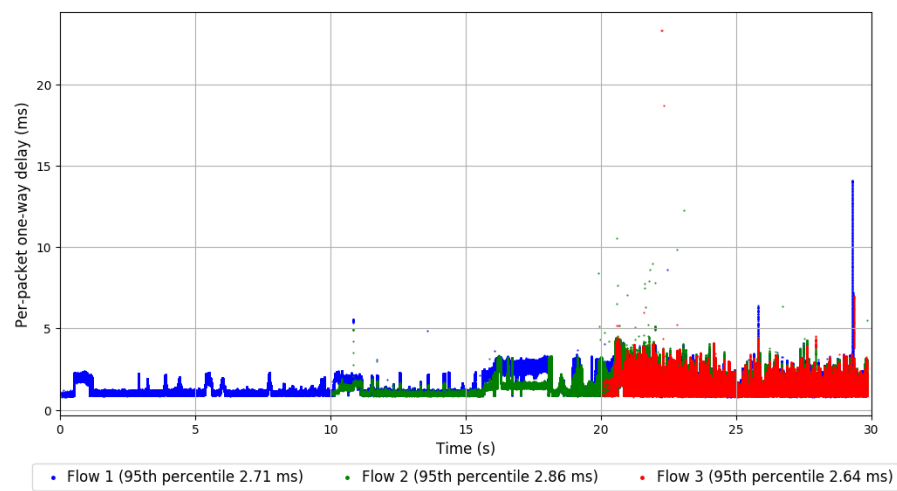
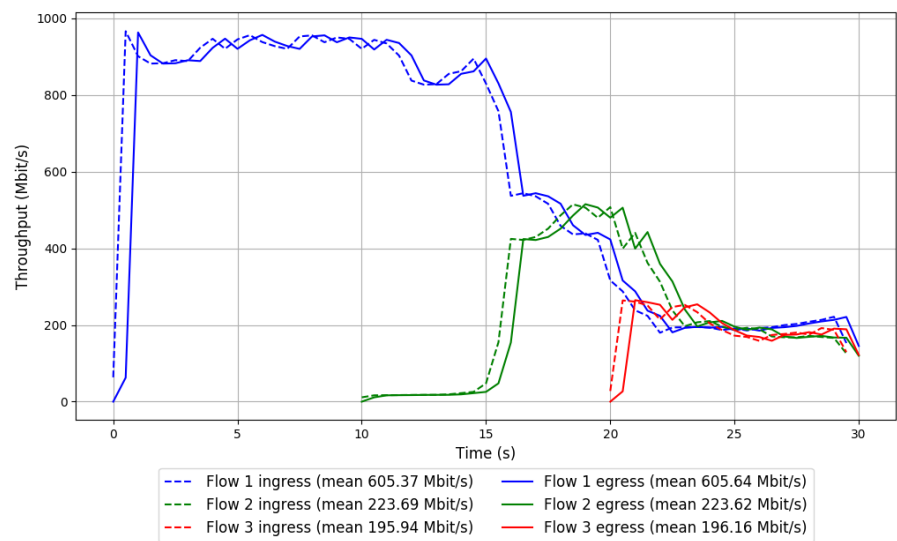
-- Flow 3:

Average throughput: 196.16 Mbit/s

95th percentile per-packet one-way delay: 2.636 ms

Loss rate: 0.20%

Run 10: Report of PCC-Allegro — Data Link

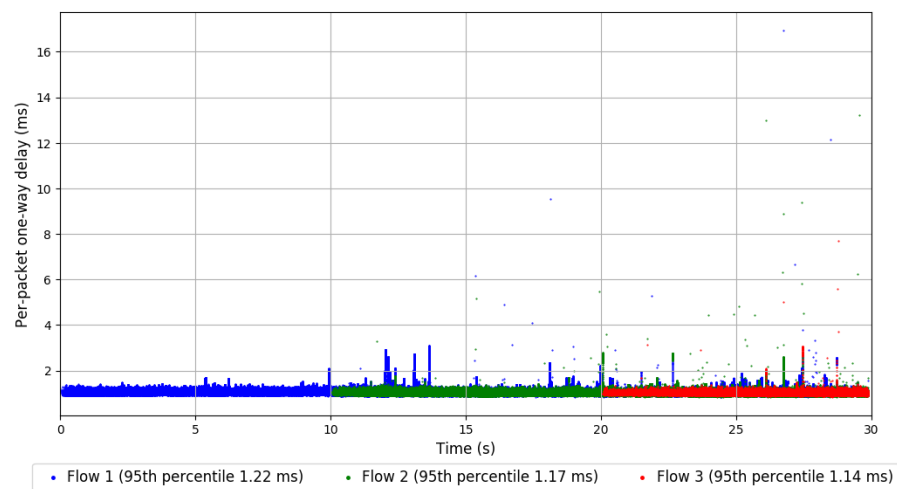
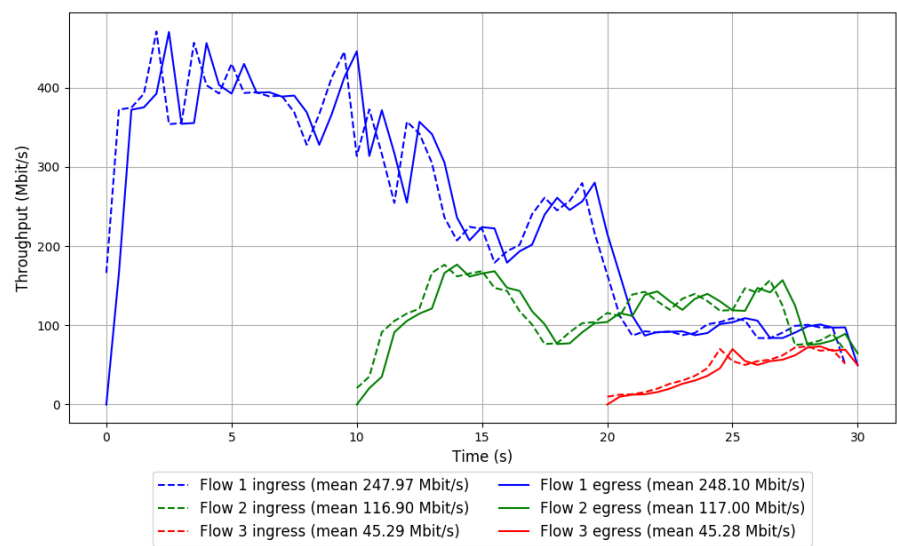


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-06 02:49:31
End at: 2018-06-06 02:50:01
Local clock offset: -0.322 ms
Remote clock offset: -0.145 ms

# Below is generated by plot.py at 2018-06-06 08:38:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 340.76 Mbit/s
95th percentile per-packet one-way delay: 1.201 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 248.10 Mbit/s
95th percentile per-packet one-way delay: 1.216 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 117.00 Mbit/s
95th percentile per-packet one-way delay: 1.166 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 45.28 Mbit/s
95th percentile per-packet one-way delay: 1.138 ms
Loss rate: 0.21%
```

Run 1: Report of PCC-Expr — Data Link

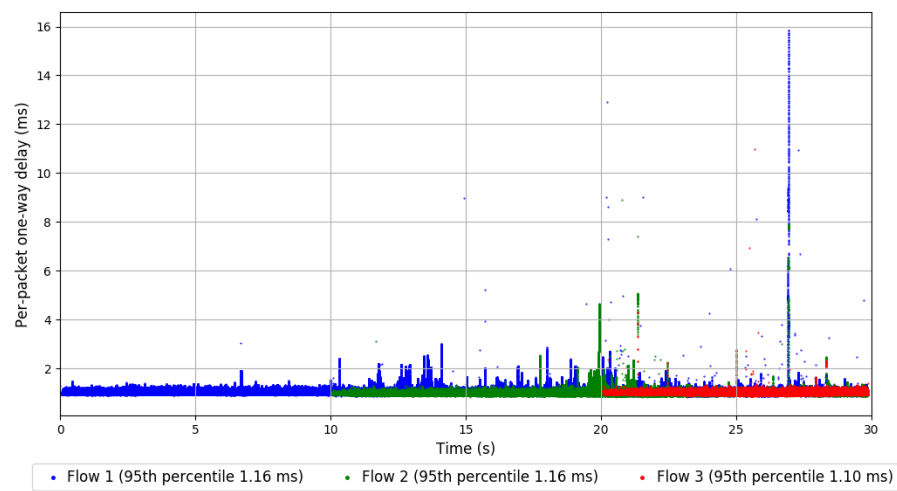
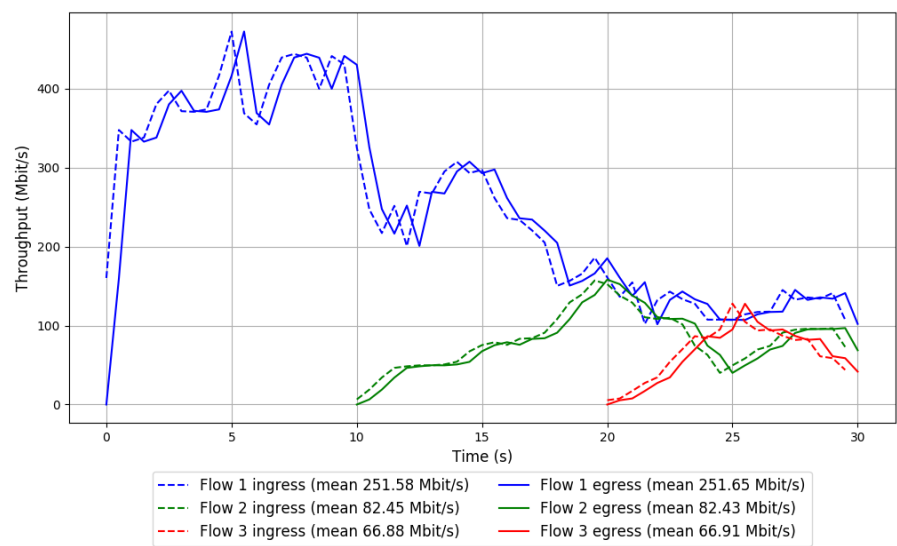


```
Run 2: Statistics of PCC-Expr

Start at: 2018-06-06 03:14:42
End at: 2018-06-06 03:15:12
Local clock offset: 0.345 ms
Remote clock offset: 0.272 ms

# Below is generated by plot.py at 2018-06-06 08:38:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 328.47 Mbit/s
95th percentile per-packet one-way delay: 1.156 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 251.65 Mbit/s
95th percentile per-packet one-way delay: 1.161 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 82.43 Mbit/s
95th percentile per-packet one-way delay: 1.156 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 66.91 Mbit/s
95th percentile per-packet one-way delay: 1.100 ms
Loss rate: 0.18%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-06-06 03:39:58

End at: 2018-06-06 03:40:28

Local clock offset: 0.7 ms

Remote clock offset: 0.996 ms

Below is generated by plot.py at 2018-06-06 08:38:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 323.58 Mbit/s

95th percentile per-packet one-way delay: 1.167 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 216.20 Mbit/s

95th percentile per-packet one-way delay: 1.176 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 140.78 Mbit/s

95th percentile per-packet one-way delay: 1.145 ms

Loss rate: 0.07%

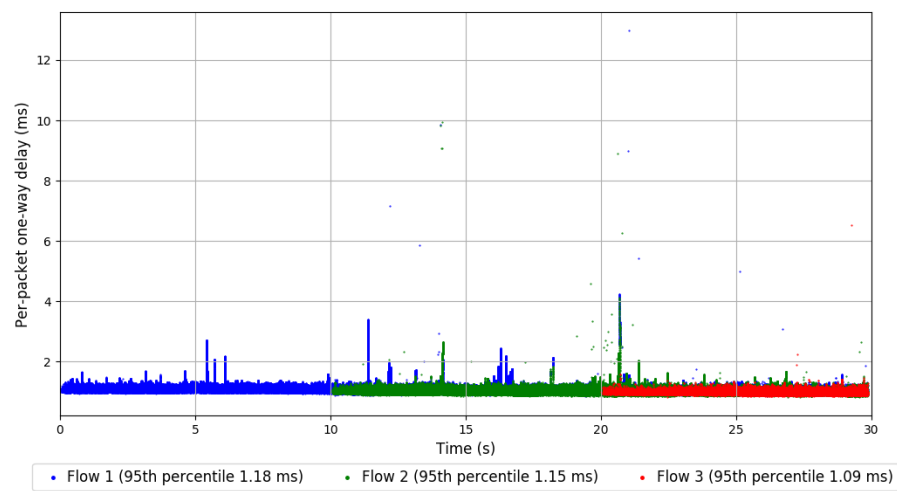
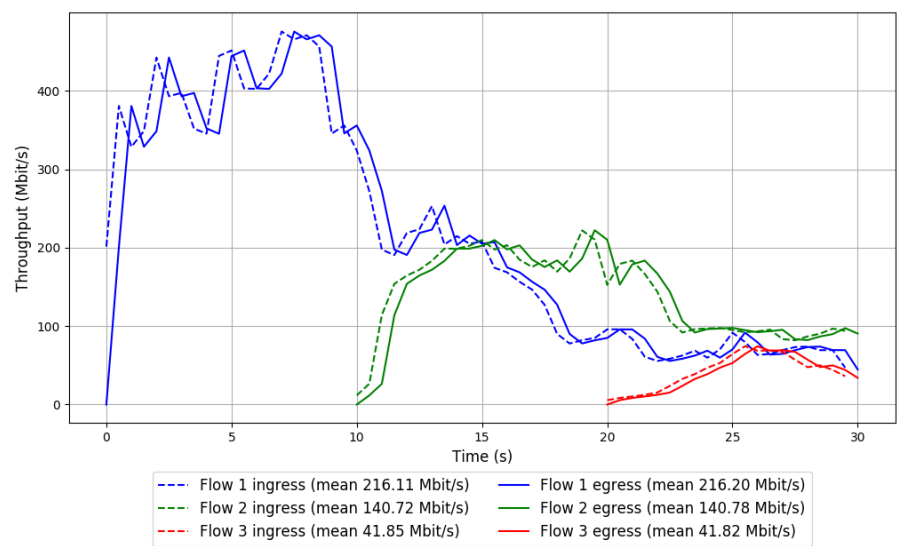
-- Flow 3:

Average throughput: 41.82 Mbit/s

95th percentile per-packet one-way delay: 1.087 ms

Loss rate: 0.26%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-06-06 04:05:14

End at: 2018-06-06 04:05:44

Local clock offset: 1.334 ms

Remote clock offset: 0.375 ms

Below is generated by plot.py at 2018-06-06 08:38:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 360.53 Mbit/s

95th percentile per-packet one-way delay: 1.324 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 254.14 Mbit/s

95th percentile per-packet one-way delay: 1.311 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 131.50 Mbit/s

95th percentile per-packet one-way delay: 1.449 ms

Loss rate: 0.03%

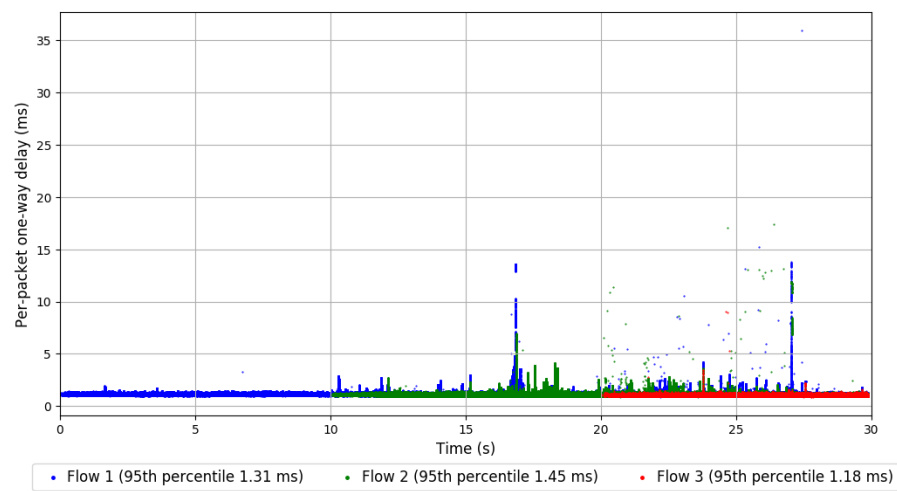
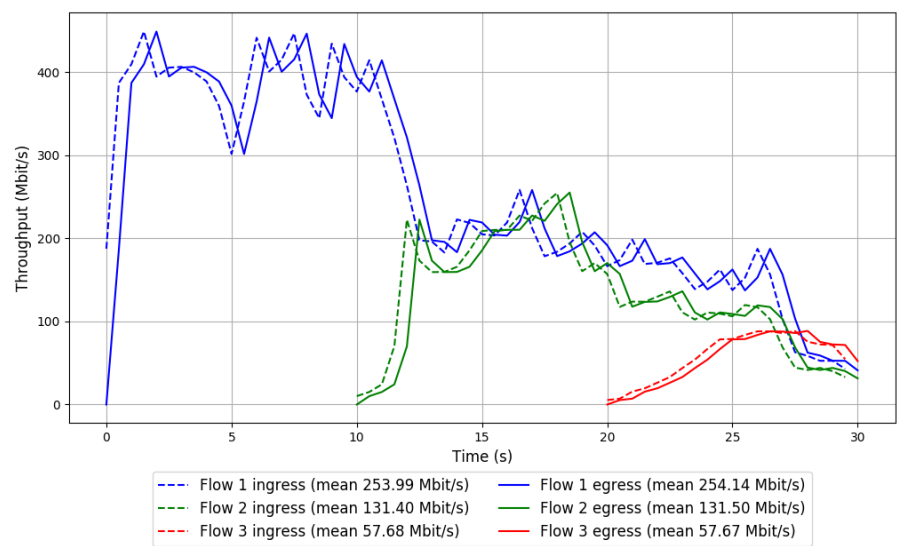
-- Flow 3:

Average throughput: 57.67 Mbit/s

95th percentile per-packet one-way delay: 1.183 ms

Loss rate: 0.23%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-06-06 04:30:34

End at: 2018-06-06 04:31:04

Local clock offset: 1.655 ms

Remote clock offset: 0.107 ms

Below is generated by plot.py at 2018-06-06 08:40:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 325.18 Mbit/s

95th percentile per-packet one-way delay: 1.264 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 214.66 Mbit/s

95th percentile per-packet one-way delay: 1.252 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 128.16 Mbit/s

95th percentile per-packet one-way delay: 1.288 ms

Loss rate: 0.03%

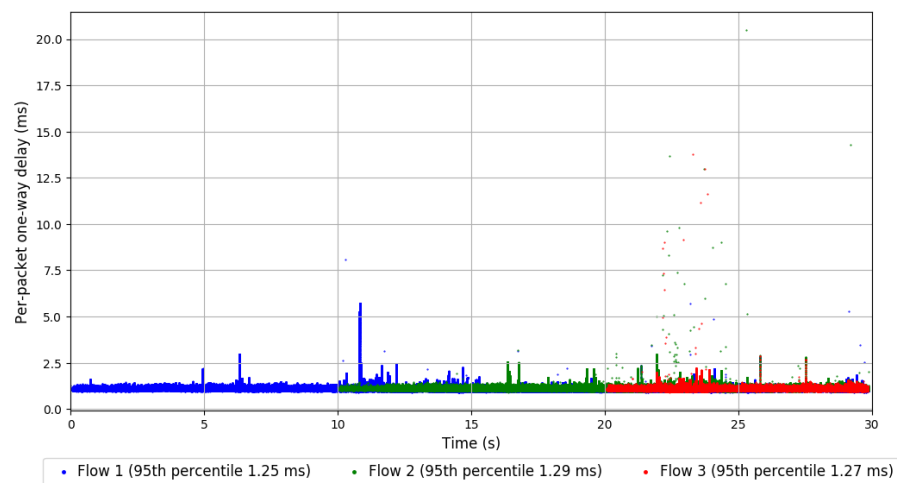
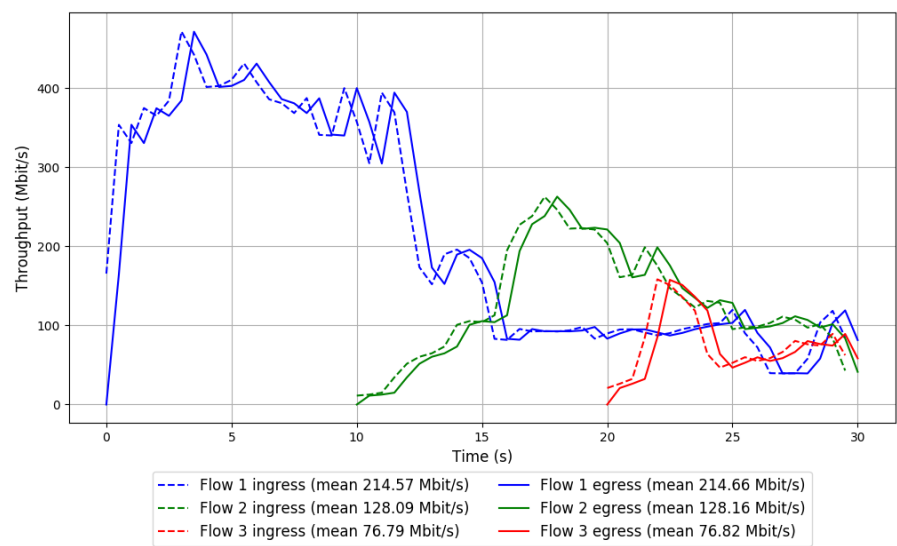
-- Flow 3:

Average throughput: 76.82 Mbit/s

95th percentile per-packet one-way delay: 1.269 ms

Loss rate: 0.27%

Run 5: Report of PCC-Expr — Data Link

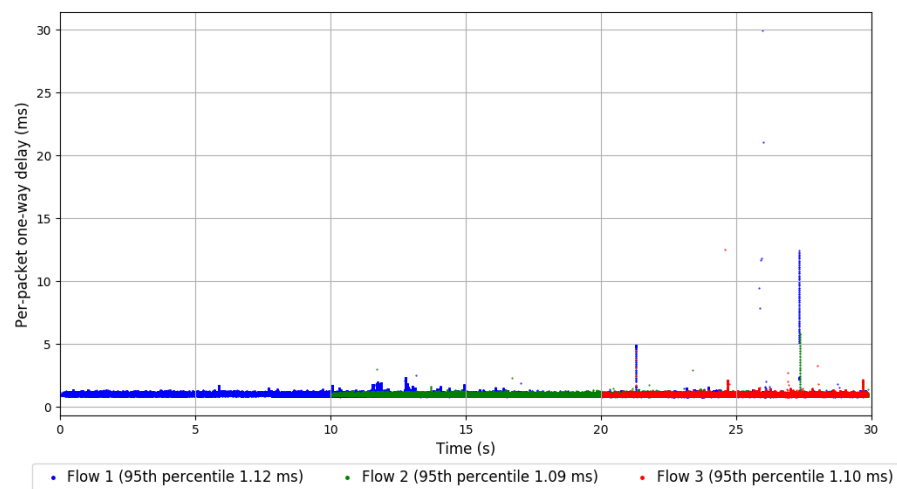
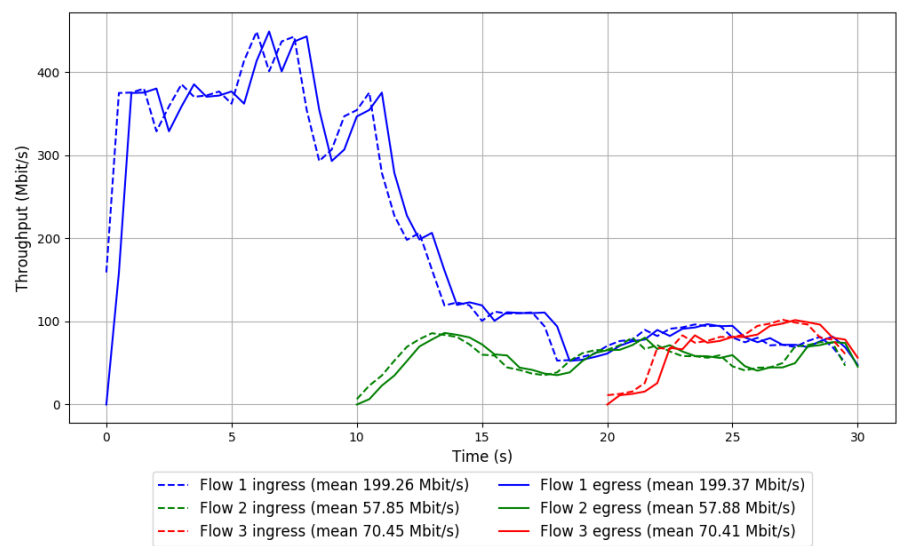


Run 6: Statistics of PCC-Expr

Start at: 2018-06-06 04:55:50
End at: 2018-06-06 04:56:20
Local clock offset: 1.935 ms
Remote clock offset: -0.269 ms

Below is generated by plot.py at 2018-06-06 08:40:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 261.02 Mbit/s
95th percentile per-packet one-way delay: 1.119 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 199.37 Mbit/s
95th percentile per-packet one-way delay: 1.125 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 57.88 Mbit/s
95th percentile per-packet one-way delay: 1.095 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 70.41 Mbit/s
95th percentile per-packet one-way delay: 1.102 ms
Loss rate: 0.34%

Run 6: Report of PCC-Expr — Data Link

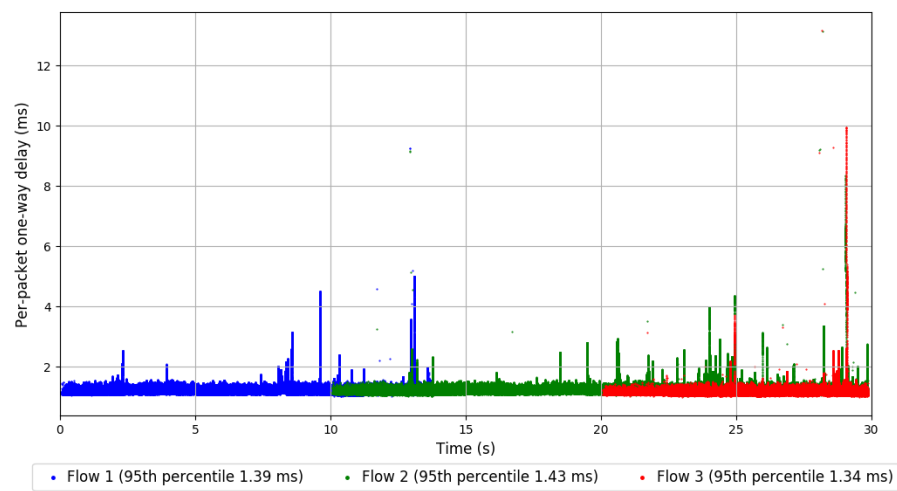
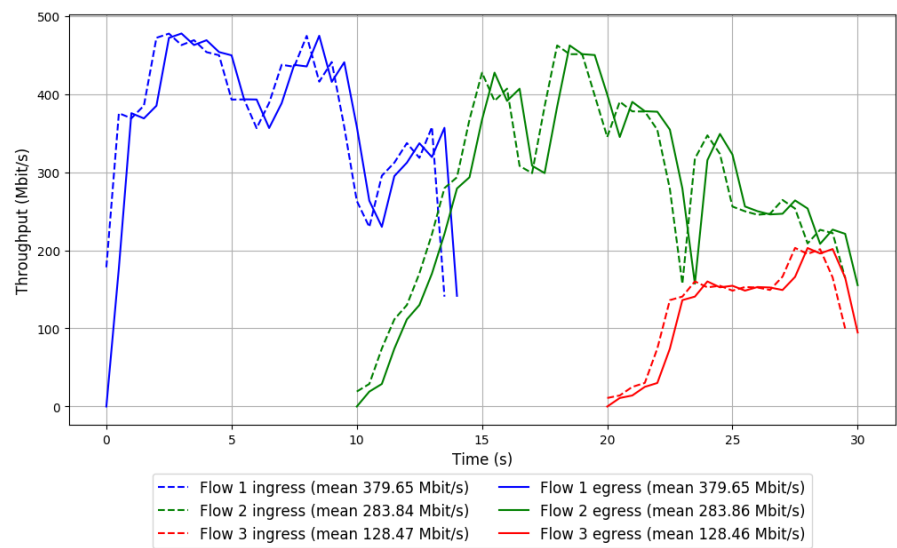


Run 7: Statistics of PCC-Expr

Start at: 2018-06-06 05:21:00
End at: 2018-06-06 05:21:30
Local clock offset: 2.439 ms
Remote clock offset: -0.623 ms

Below is generated by plot.py at 2018-06-06 08:45:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 405.76 Mbit/s
95th percentile per-packet one-way delay: 1.404 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 379.65 Mbit/s
95th percentile per-packet one-way delay: 1.390 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 283.86 Mbit/s
95th percentile per-packet one-way delay: 1.431 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 128.46 Mbit/s
95th percentile per-packet one-way delay: 1.337 ms
Loss rate: 0.21%

Run 7: Report of PCC-Expr — Data Link

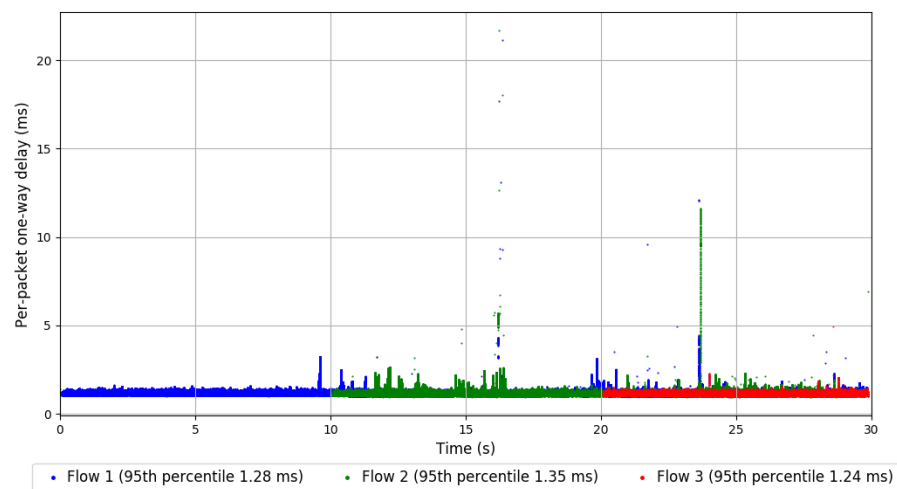
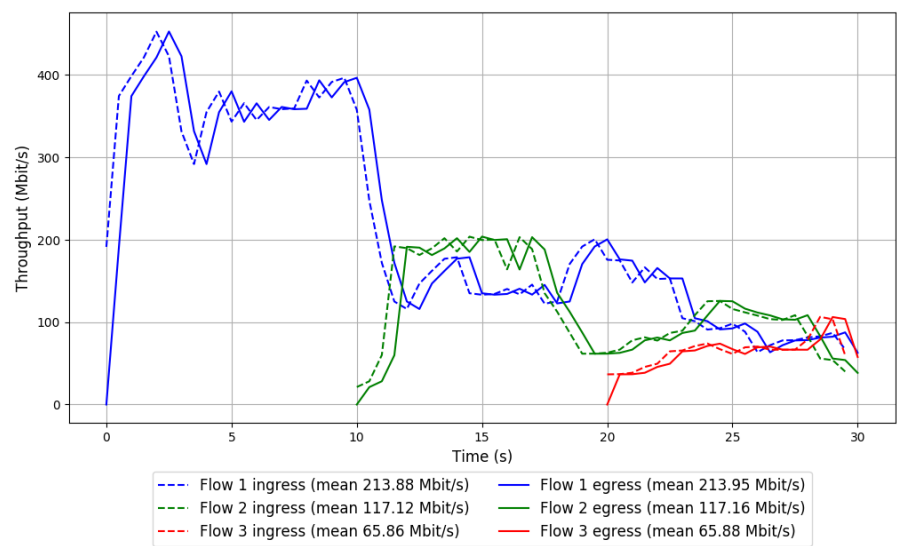


Run 8: Statistics of PCC-Expr

Start at: 2018-06-06 05:46:24
End at: 2018-06-06 05:46:54
Local clock offset: 1.992 ms
Remote clock offset: -0.507 ms

Below is generated by plot.py at 2018-06-06 08:45:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 313.53 Mbit/s
95th percentile per-packet one-way delay: 1.286 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 213.95 Mbit/s
95th percentile per-packet one-way delay: 1.276 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 117.16 Mbit/s
95th percentile per-packet one-way delay: 1.354 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 65.88 Mbit/s
95th percentile per-packet one-way delay: 1.236 ms
Loss rate: 0.17%

Run 8: Report of PCC-Expr — Data Link

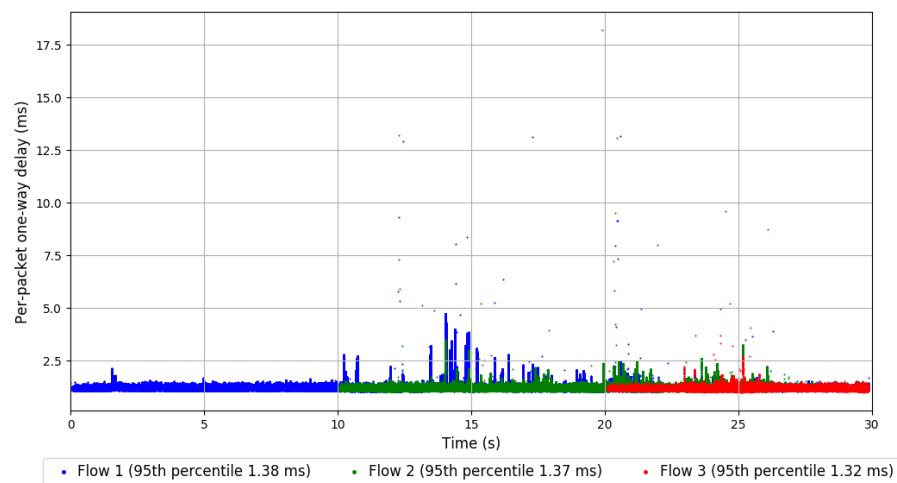
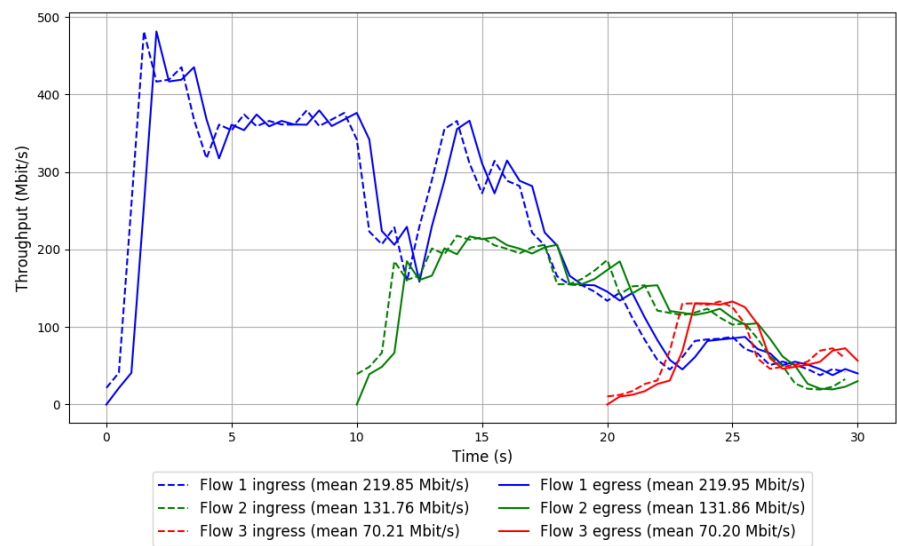


Run 9: Statistics of PCC-Expr

Start at: 2018-06-06 06:11:41
End at: 2018-06-06 06:12:11
Local clock offset: 1.449 ms
Remote clock offset: -0.057 ms

Below is generated by plot.py at 2018-06-06 08:45:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 330.68 Mbit/s
95th percentile per-packet one-way delay: 1.375 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 219.95 Mbit/s
95th percentile per-packet one-way delay: 1.382 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 131.86 Mbit/s
95th percentile per-packet one-way delay: 1.373 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 70.20 Mbit/s
95th percentile per-packet one-way delay: 1.321 ms
Loss rate: 0.24%

Run 9: Report of PCC-Expr — Data Link

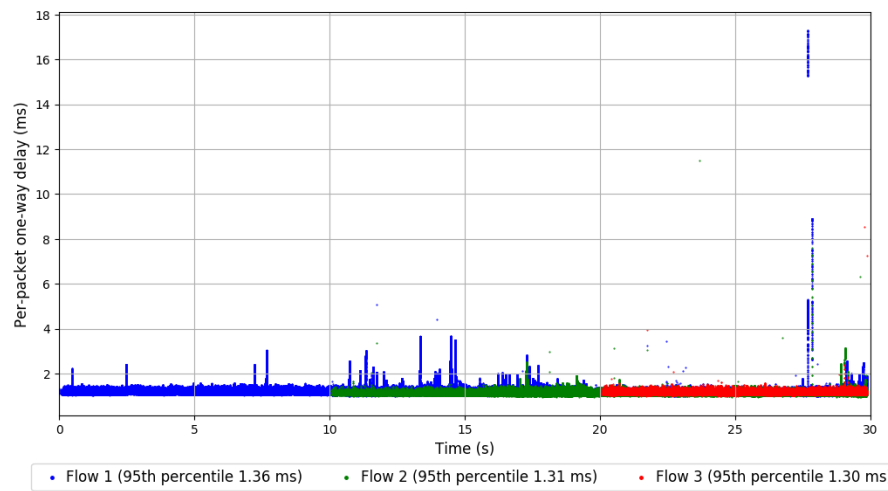
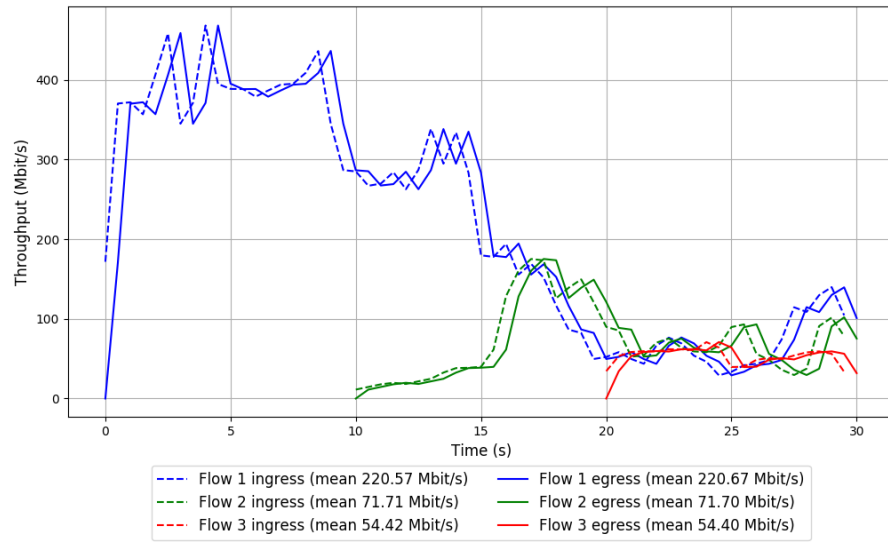


Run 10: Statistics of PCC-Expr

Start at: 2018-06-06 06:37:04
End at: 2018-06-06 06:37:34
Local clock offset: 0.083 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-06-06 08:45:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 286.20 Mbit/s
95th percentile per-packet one-way delay: 1.348 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 220.67 Mbit/s
95th percentile per-packet one-way delay: 1.362 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 71.70 Mbit/s
95th percentile per-packet one-way delay: 1.307 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 54.40 Mbit/s
95th percentile per-packet one-way delay: 1.300 ms
Loss rate: 0.16%

Run 10: Report of PCC-Expr — Data Link

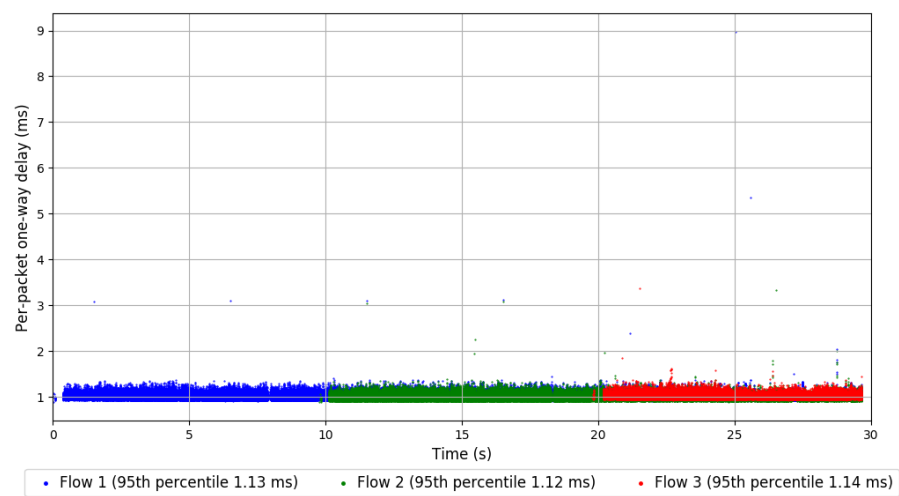
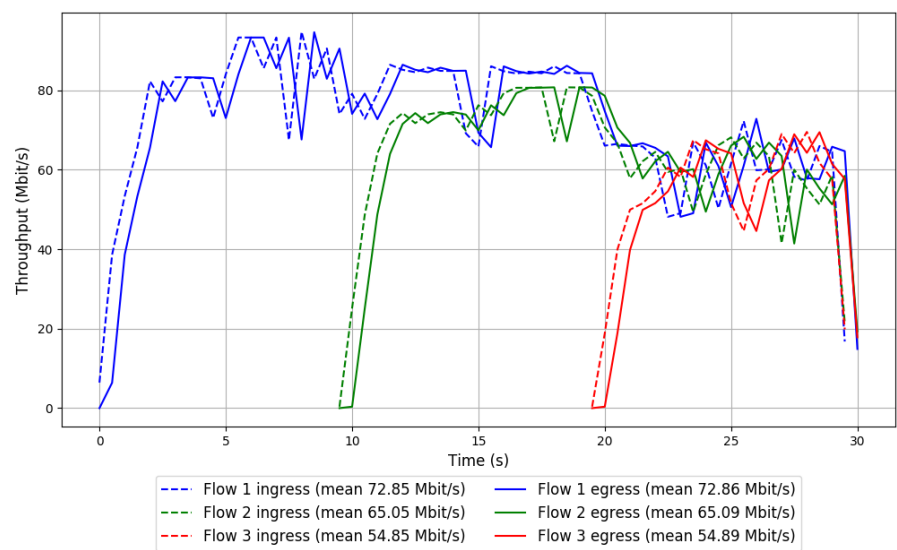


Run 1: Statistics of QUIC Cubic

Start at: 2018-06-06 02:51:10
End at: 2018-06-06 02:51:40
Local clock offset: -0.2 ms
Remote clock offset: -0.075 ms

Below is generated by plot.py at 2018-06-06 08:45:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 134.80 Mbit/s
95th percentile per-packet one-way delay: 1.127 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 72.86 Mbit/s
95th percentile per-packet one-way delay: 1.130 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 65.09 Mbit/s
95th percentile per-packet one-way delay: 1.116 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 54.89 Mbit/s
95th percentile per-packet one-way delay: 1.139 ms
Loss rate: 0.22%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-06-06 03:16:20

End at: 2018-06-06 03:16:50

Local clock offset: 0.459 ms

Remote clock offset: 0.281 ms

Below is generated by plot.py at 2018-06-06 08:45:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 133.12 Mbit/s

95th percentile per-packet one-way delay: 1.202 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 69.94 Mbit/s

95th percentile per-packet one-way delay: 1.201 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 69.09 Mbit/s

95th percentile per-packet one-way delay: 1.195 ms

Loss rate: 0.08%

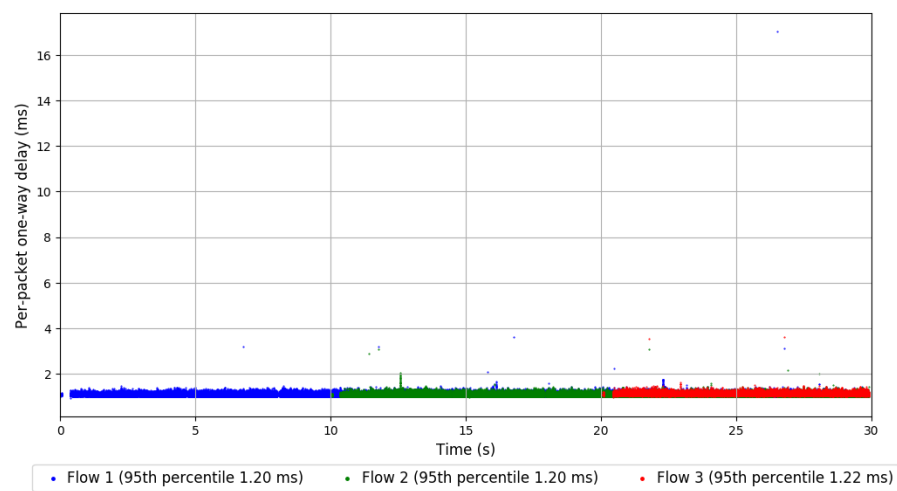
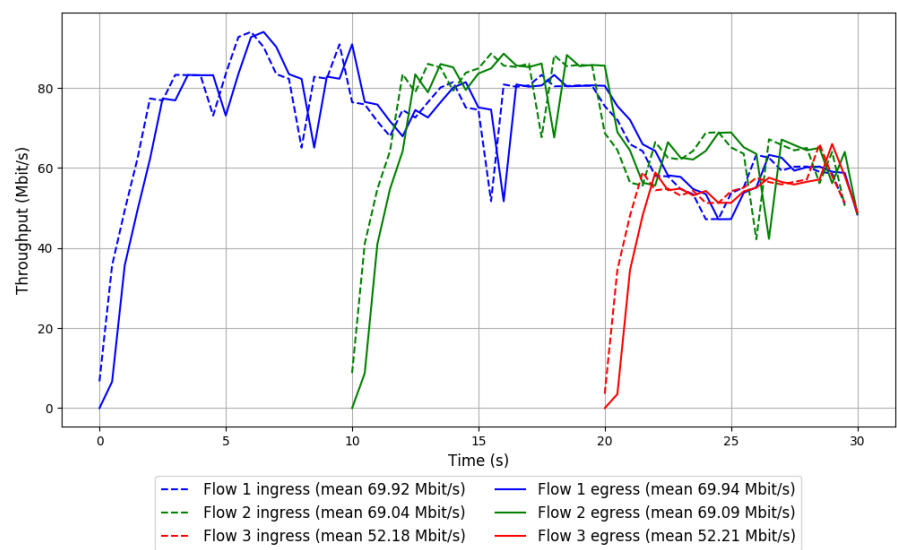
-- Flow 3:

Average throughput: 52.21 Mbit/s

95th percentile per-packet one-way delay: 1.220 ms

Loss rate: 0.24%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-06-06 03:41:36

End at: 2018-06-06 03:42:06

Local clock offset: 0.651 ms

Remote clock offset: 0.819 ms

Below is generated by plot.py at 2018-06-06 08:45:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 136.83 Mbit/s

95th percentile per-packet one-way delay: 1.084 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 75.17 Mbit/s

95th percentile per-packet one-way delay: 1.098 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 65.73 Mbit/s

95th percentile per-packet one-way delay: 1.059 ms

Loss rate: 0.09%

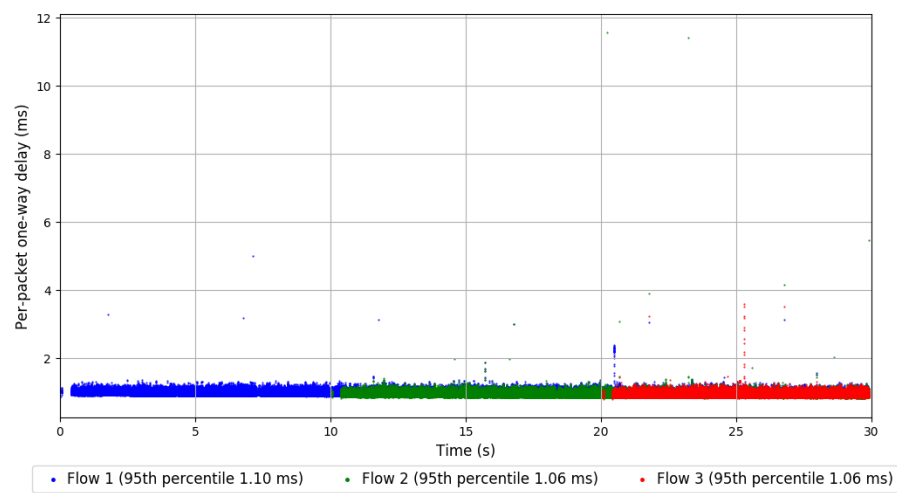
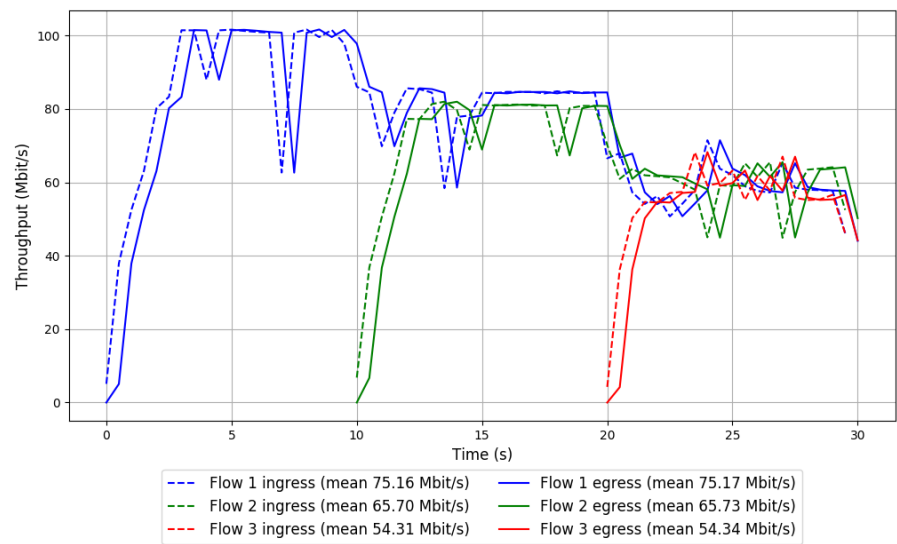
-- Flow 3:

Average throughput: 54.34 Mbit/s

95th percentile per-packet one-way delay: 1.059 ms

Loss rate: 0.19%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-06-06 04:06:54

End at: 2018-06-06 04:07:24

Local clock offset: 1.294 ms

Remote clock offset: 0.377 ms

Below is generated by plot.py at 2018-06-06 08:45:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 133.76 Mbit/s

95th percentile per-packet one-way delay: 1.115 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 72.73 Mbit/s

95th percentile per-packet one-way delay: 1.109 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 63.49 Mbit/s

95th percentile per-packet one-way delay: 1.130 ms

Loss rate: 0.12%

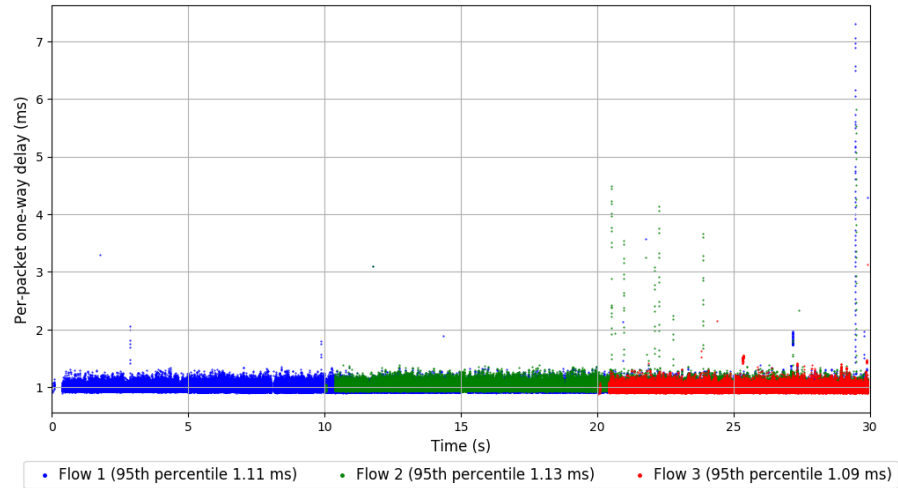
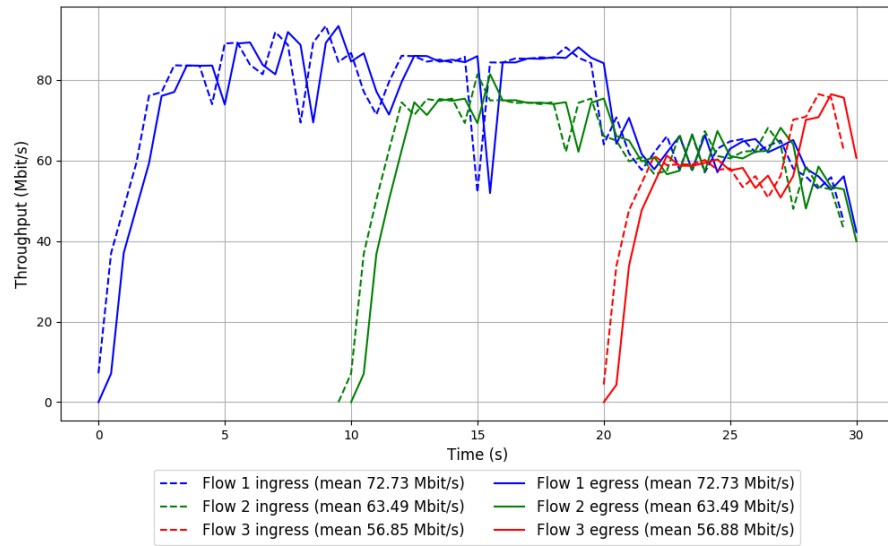
-- Flow 3:

Average throughput: 56.88 Mbit/s

95th percentile per-packet one-way delay: 1.094 ms

Loss rate: 0.19%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-06-06 04:32:12

End at: 2018-06-06 04:32:42

Local clock offset: 1.633 ms

Remote clock offset: 0.097 ms

Below is generated by plot.py at 2018-06-06 08:45:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 133.74 Mbit/s

95th percentile per-packet one-way delay: 1.180 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 71.86 Mbit/s

95th percentile per-packet one-way delay: 1.180 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 66.81 Mbit/s

95th percentile per-packet one-way delay: 1.173 ms

Loss rate: 0.09%

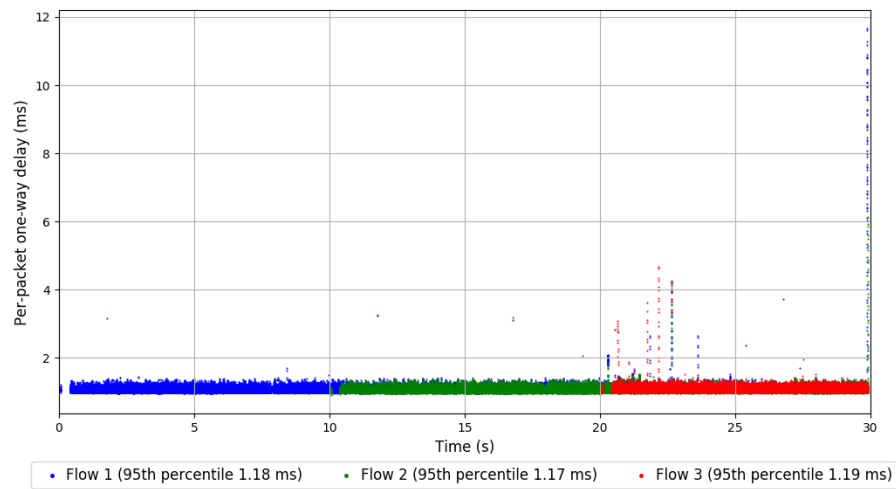
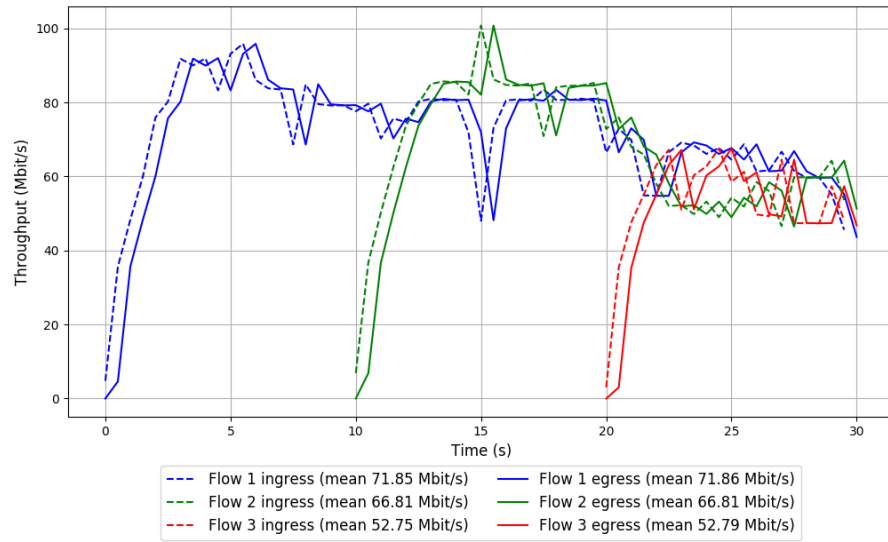
-- Flow 3:

Average throughput: 52.79 Mbit/s

95th percentile per-packet one-way delay: 1.193 ms

Loss rate: 0.14%

Run 5: Report of QUIC Cubic — Data Link

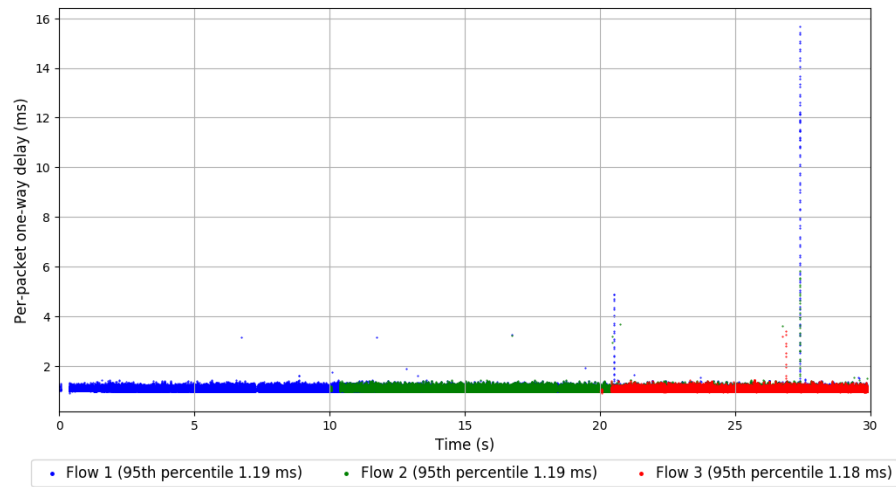
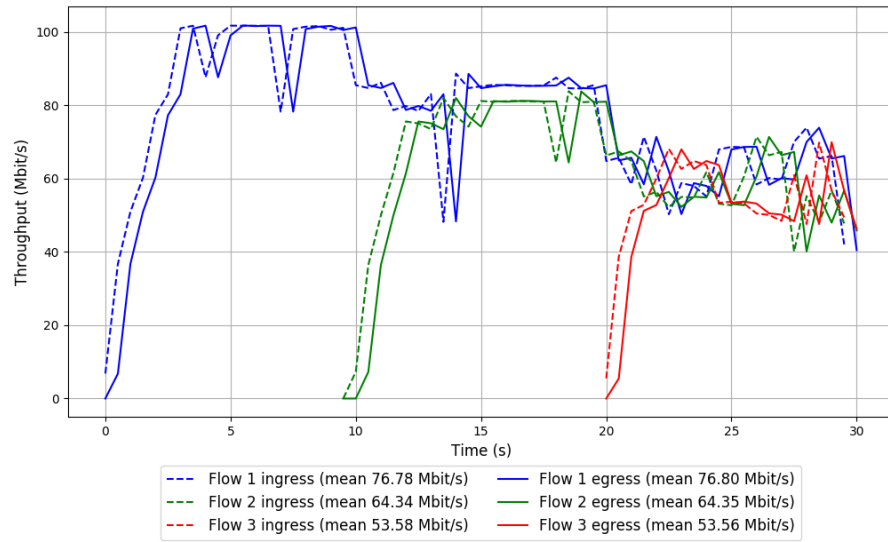


Run 6: Statistics of QUIC Cubic

Start at: 2018-06-06 04:57:25
End at: 2018-06-06 04:57:55
Local clock offset: 2.065 ms
Remote clock offset: -0.304 ms

Below is generated by plot.py at 2018-06-06 08:45:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 137.33 Mbit/s
95th percentile per-packet one-way delay: 1.187 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 76.80 Mbit/s
95th percentile per-packet one-way delay: 1.186 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 64.35 Mbit/s
95th percentile per-packet one-way delay: 1.191 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 53.56 Mbit/s
95th percentile per-packet one-way delay: 1.175 ms
Loss rate: 0.30%

Run 6: Report of QUIC Cubic — Data Link

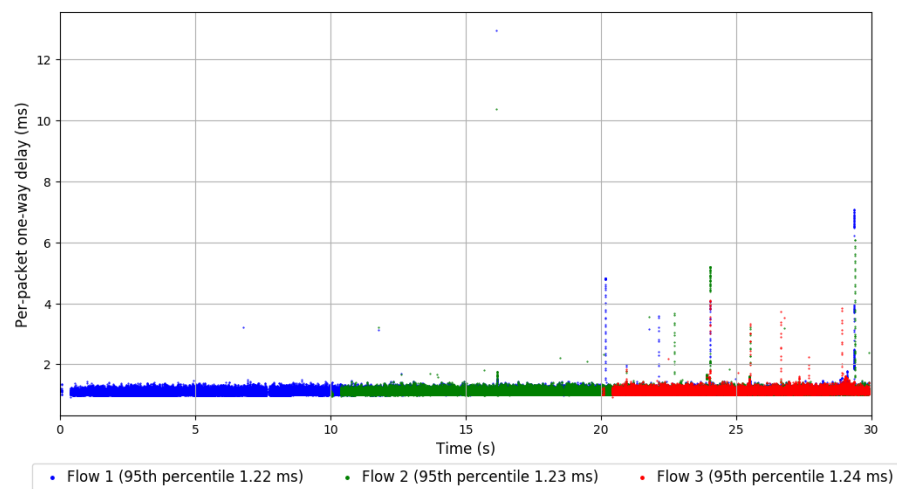
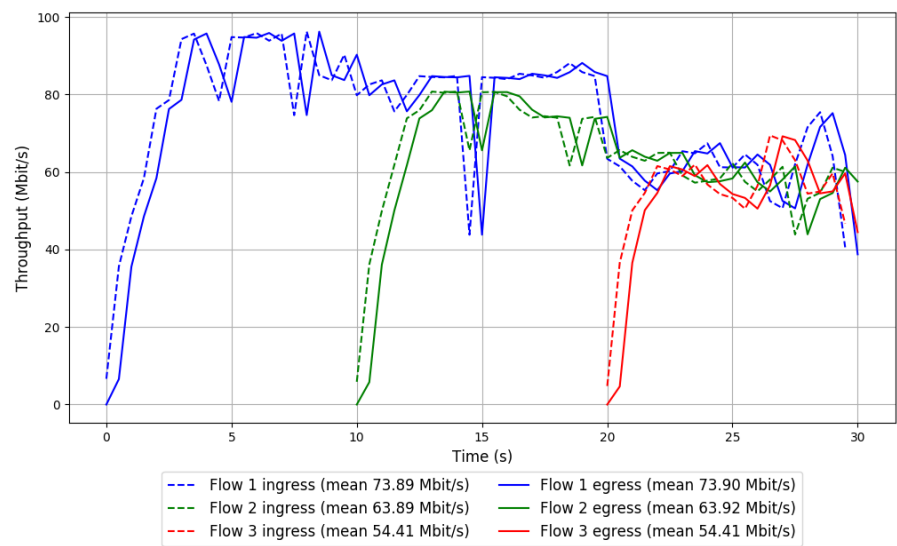


Run 7: Statistics of QUIC Cubic

Start at: 2018-06-06 05:22:43
End at: 2018-06-06 05:23:13
Local clock offset: 2.355 ms
Remote clock offset: -0.499 ms

Below is generated by plot.py at 2018-06-06 08:45:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 134.39 Mbit/s
95th percentile per-packet one-way delay: 1.224 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 73.90 Mbit/s
95th percentile per-packet one-way delay: 1.219 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 63.92 Mbit/s
95th percentile per-packet one-way delay: 1.225 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 54.41 Mbit/s
95th percentile per-packet one-way delay: 1.241 ms
Loss rate: 0.21%

Run 7: Report of QUIC Cubic — Data Link

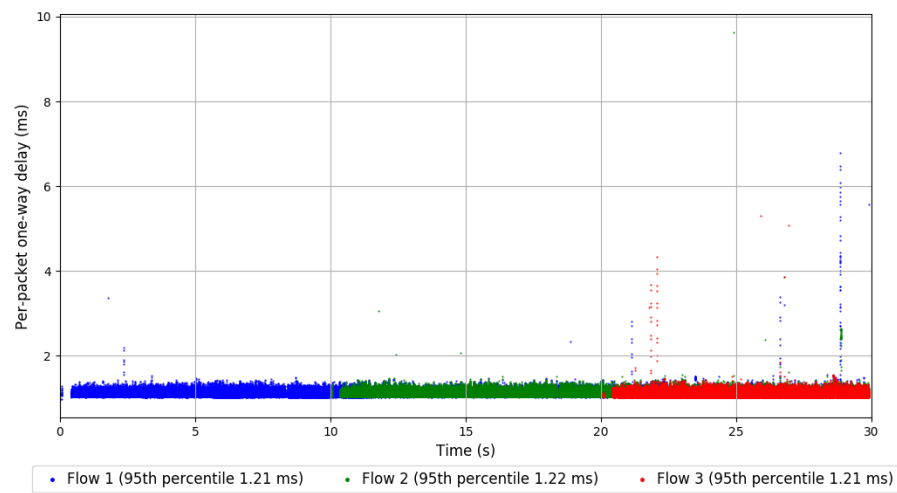
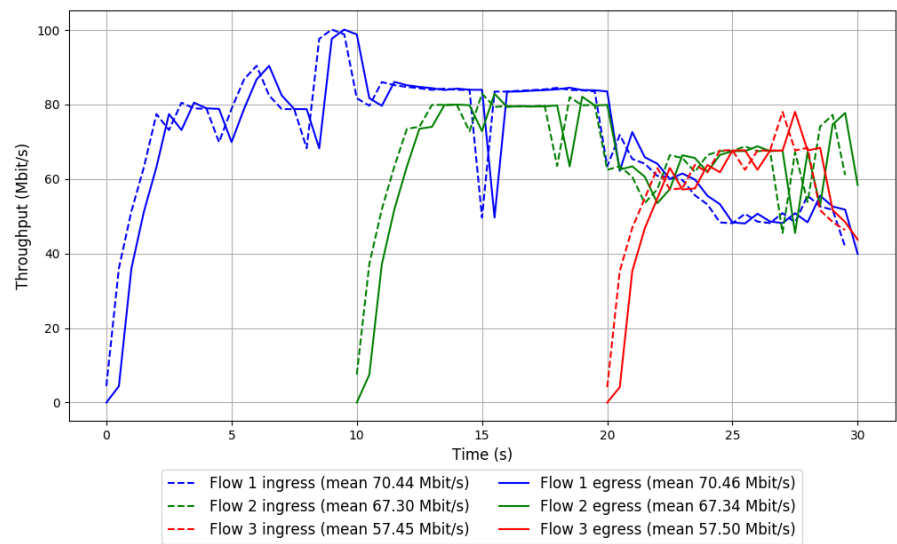


Run 8: Statistics of QUIC Cubic

Start at: 2018-06-06 05:48:02
End at: 2018-06-06 05:48:32
Local clock offset: 2.01 ms
Remote clock offset: -0.489 ms

Below is generated by plot.py at 2018-06-06 08:45:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 134.24 Mbit/s
95th percentile per-packet one-way delay: 1.216 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 70.46 Mbit/s
95th percentile per-packet one-way delay: 1.214 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 67.34 Mbit/s
95th percentile per-packet one-way delay: 1.221 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 57.50 Mbit/s
95th percentile per-packet one-way delay: 1.212 ms
Loss rate: 0.24%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-06-06 06:13:20

End at: 2018-06-06 06:13:50

Local clock offset: 1.422 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2018-06-06 08:45:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.24 Mbit/s

95th percentile per-packet one-way delay: 1.265 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 72.85 Mbit/s

95th percentile per-packet one-way delay: 1.272 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 65.51 Mbit/s

95th percentile per-packet one-way delay: 1.244 ms

Loss rate: 0.12%

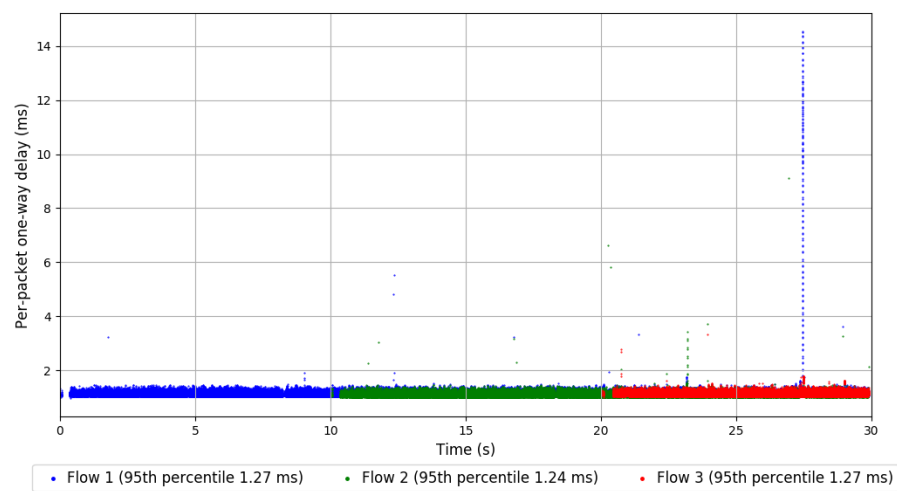
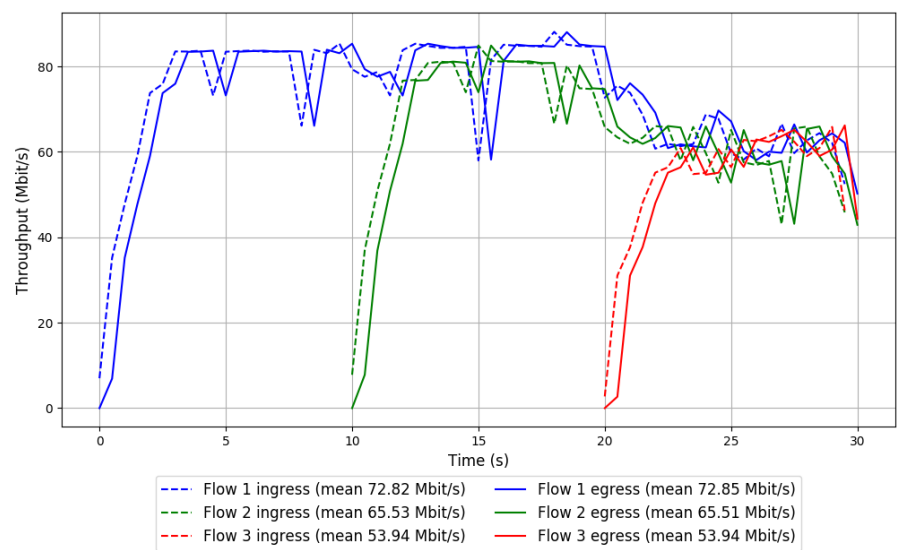
-- Flow 3:

Average throughput: 53.94 Mbit/s

95th percentile per-packet one-way delay: 1.273 ms

Loss rate: 0.20%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-06-06 06:38:40

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

Local clock offset: 0.038 ms

Remote clock offset: 0.104 ms

Below is generated by plot.py at 2018-06-06 08:45:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 133.95 Mbit/s

95th percentile per-packet one-way delay: 1.148 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 73.34 Mbit/s

95th percentile per-packet one-way delay: 1.128 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 63.89 Mbit/s

95th percentile per-packet one-way delay: 1.165 ms

Loss rate: 0.08%

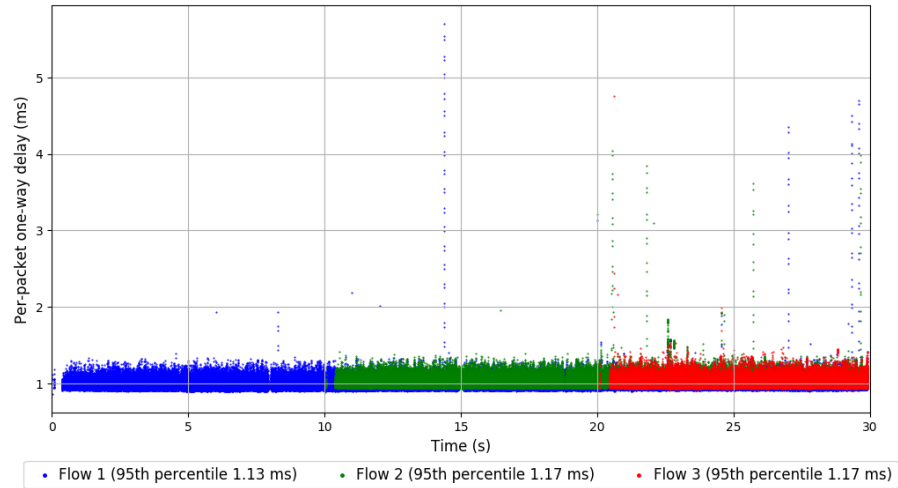
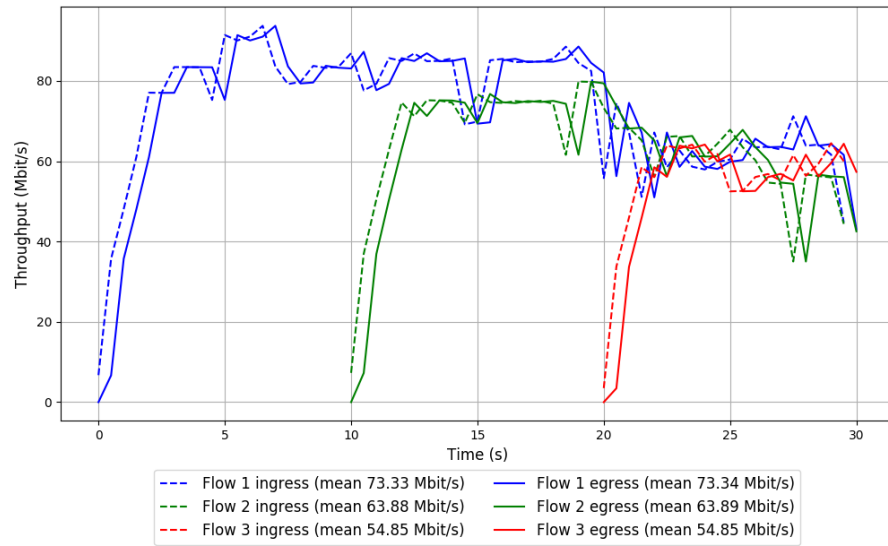
-- Flow 3:

Average throughput: 54.85 Mbit/s

95th percentile per-packet one-way delay: 1.167 ms

Loss rate: 0.26%

Run 10: Report of QUIC Cubic — Data Link

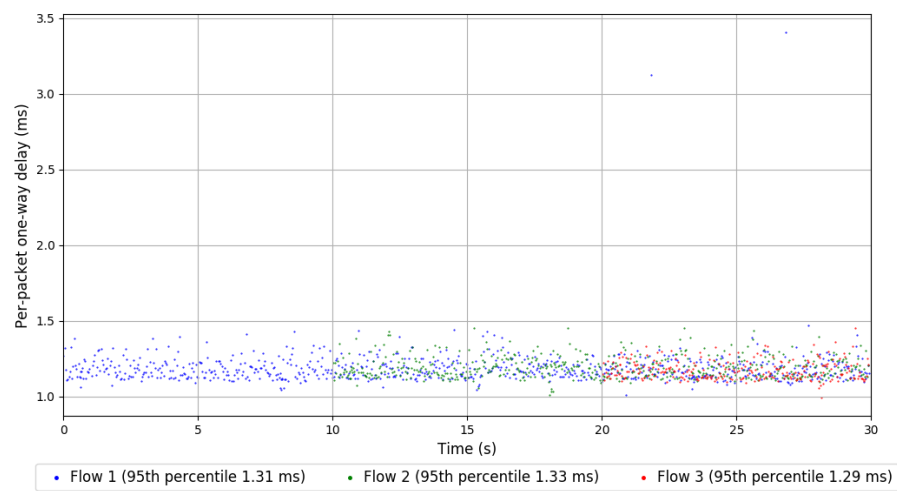
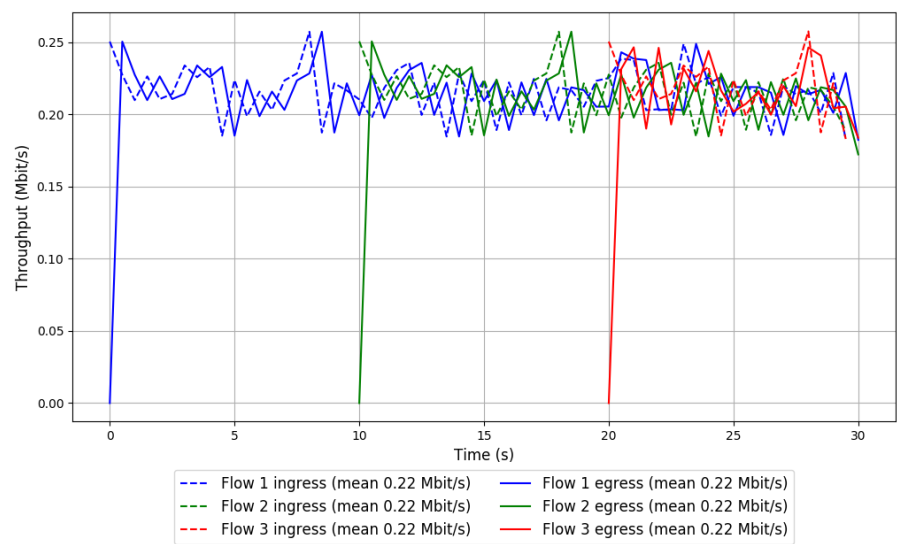


```
Run 1: Statistics of SReAM

Start at: 2018-06-06 02:54:13
End at: 2018-06-06 02:54:43
Local clock offset: -0.124 ms
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2018-06-06 08:45:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.314 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.311 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.330 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.289 ms
Loss rate: 0.36%
```

Run 1: Report of SReAM — Data Link

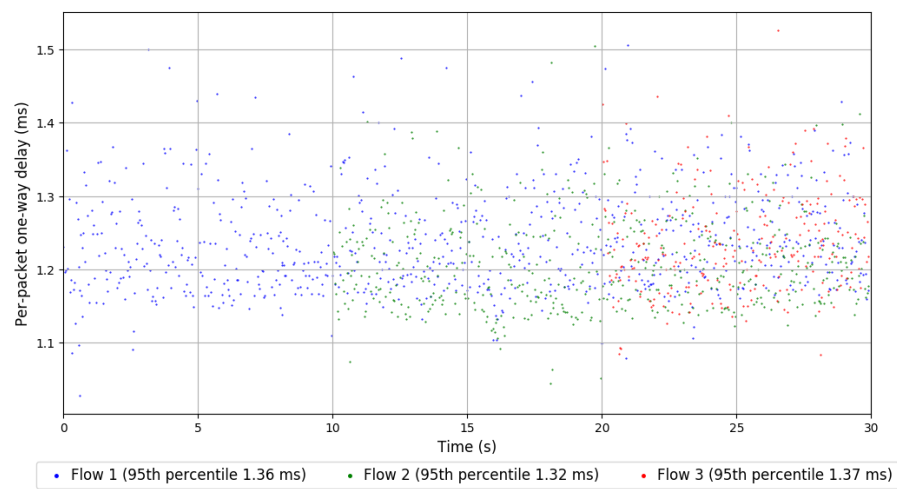
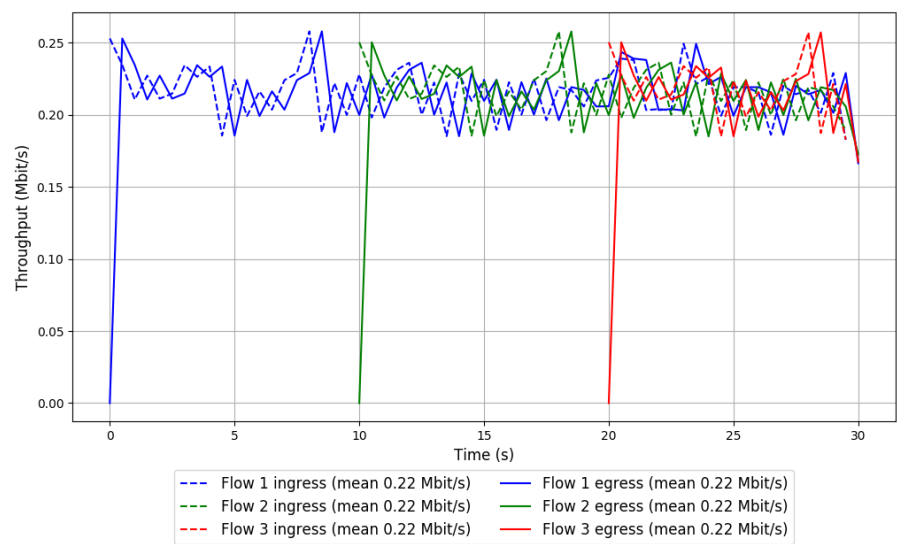


```
Run 2: Statistics of SReAM

Start at: 2018-06-06 03:19:24
End at: 2018-06-06 03:19:54
Local clock offset: 0.525 ms
Remote clock offset: 0.362 ms

# Below is generated by plot.py at 2018-06-06 08:45:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.357 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.363 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.322 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.367 ms
Loss rate: 0.36%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-06-06 03:44:40

End at: 2018-06-06 03:45:10

Local clock offset: 0.809 ms

Remote clock offset: 0.658 ms

Below is generated by plot.py at 2018-06-06 08:45:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.243 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.252 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.220 ms

Loss rate: 0.19%

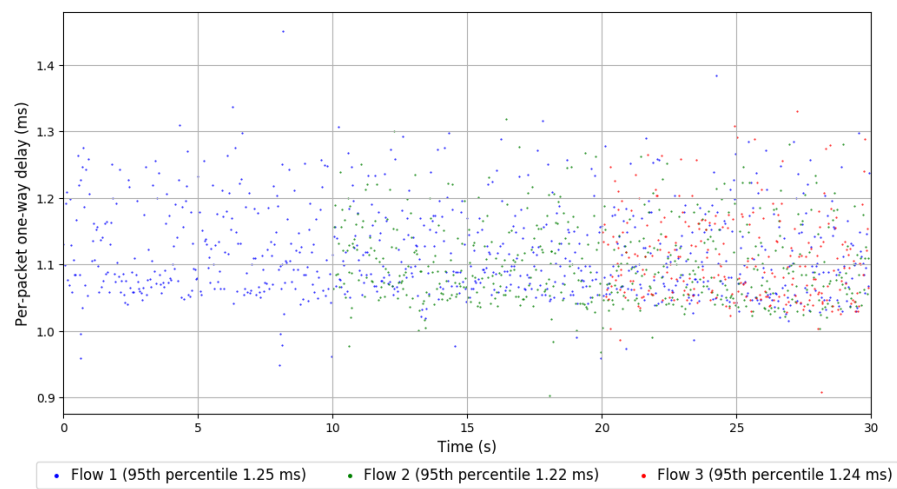
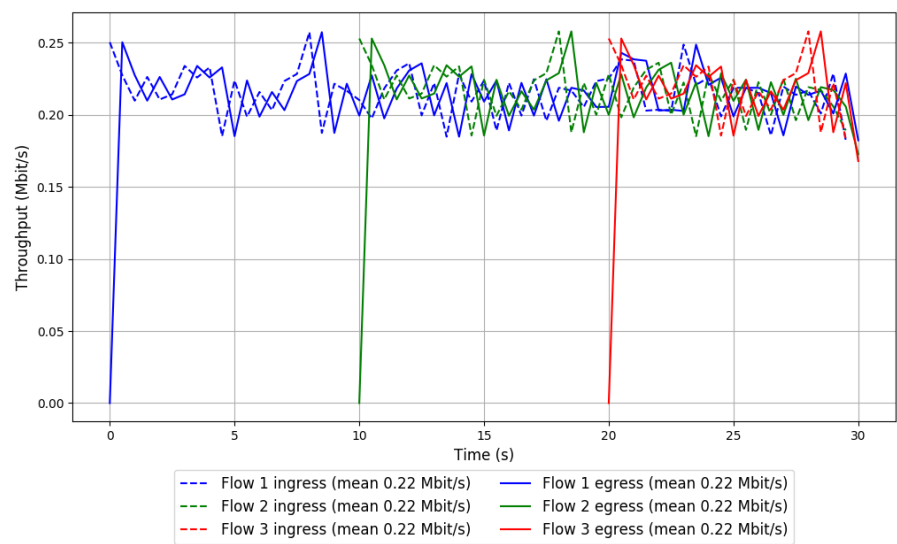
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.240 ms

Loss rate: 0.35%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-06-06 04:09:59

End at: 2018-06-06 04:10:29

Local clock offset: 1.473 ms

Remote clock offset: 0.488 ms

Below is generated by plot.py at 2018-06-06 08:45:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.257 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.255 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.274 ms

Loss rate: 0.19%

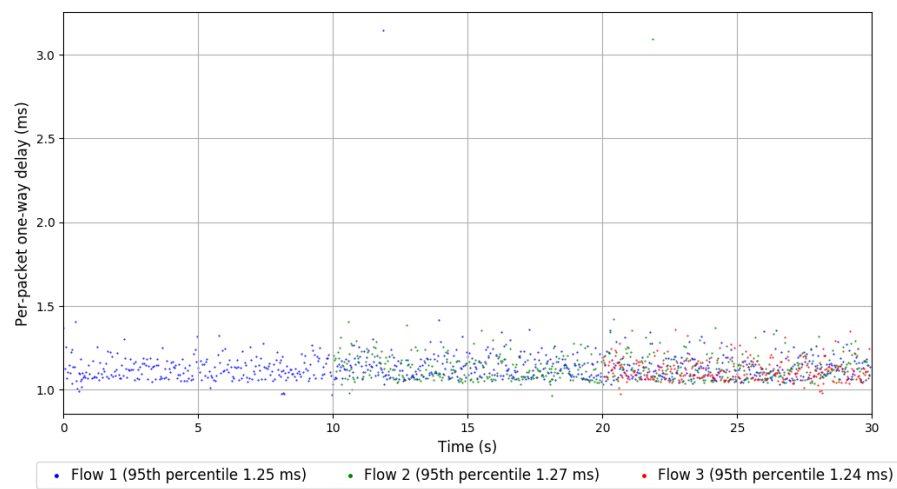
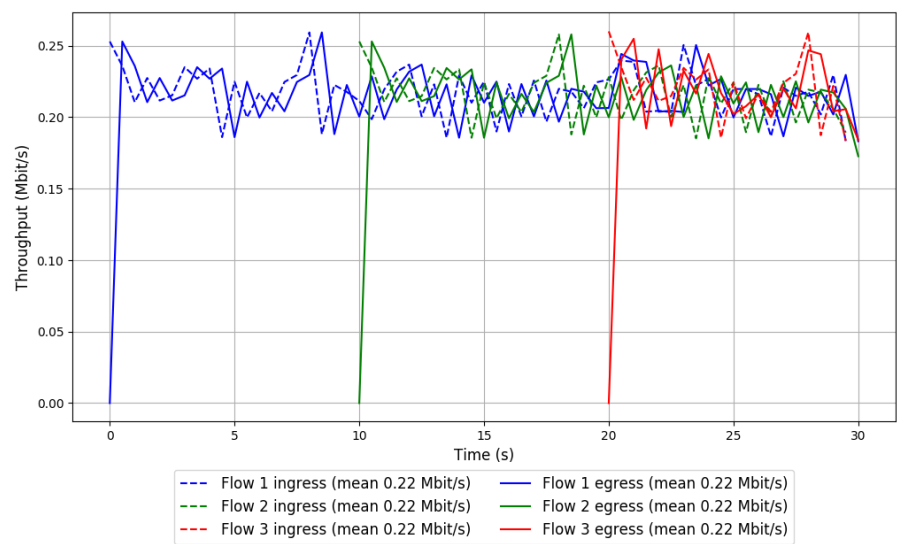
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.244 ms

Loss rate: 0.35%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-06-06 04:35:17

End at: 2018-06-06 04:35:47

Local clock offset: 1.677 ms

Remote clock offset: 0.105 ms

Below is generated by plot.py at 2018-06-06 08:45:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.276 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.285 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.257 ms

Loss rate: 0.19%

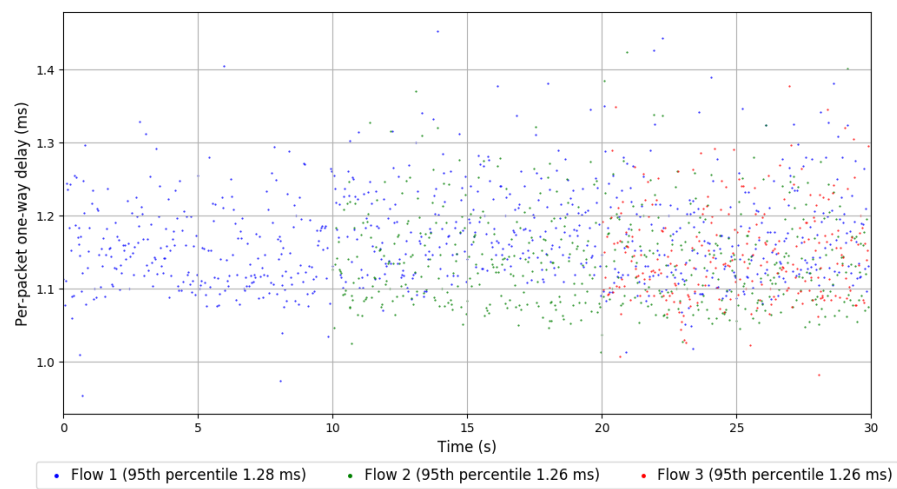
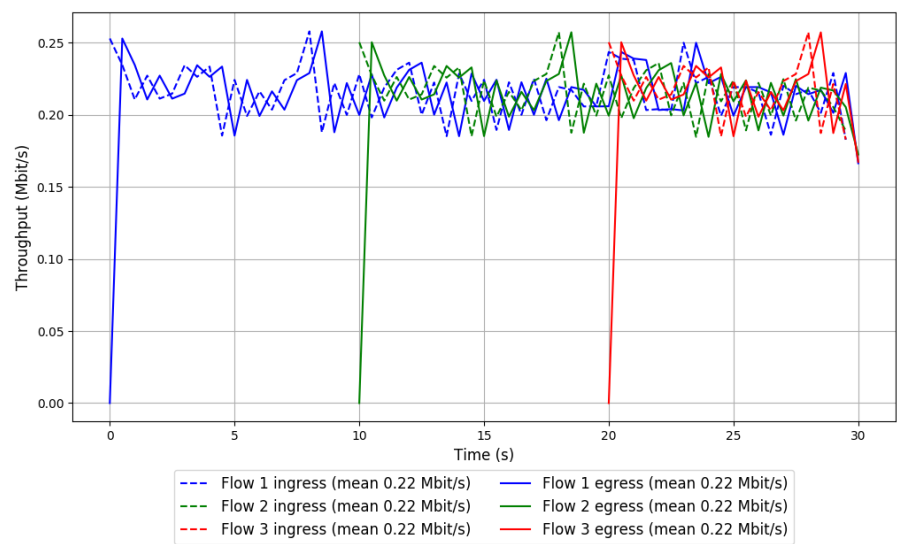
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.264 ms

Loss rate: 0.36%

Run 5: Report of SReAM — Data Link

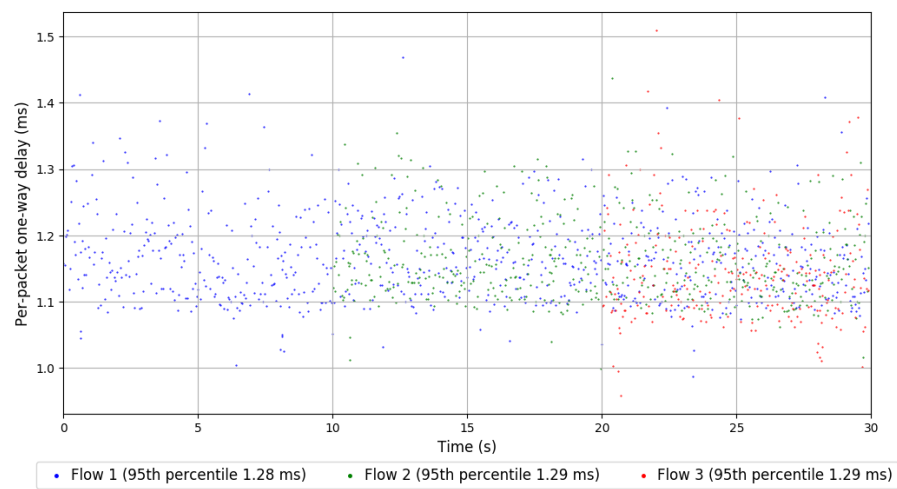
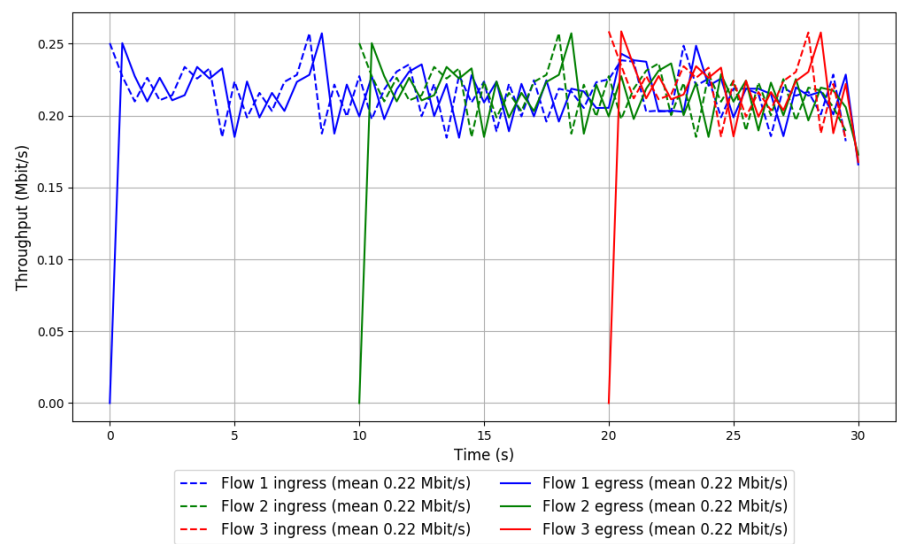


Run 6: Statistics of SReAM

Start at: 2018-06-06 05:00:30
End at: 2018-06-06 05:01:00
Local clock offset: 2.12 ms
Remote clock offset: -0.384 ms

Below is generated by plot.py at 2018-06-06 08:45:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.285 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.283 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.287 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.291 ms
Loss rate: 0.35%

Run 6: Report of SReAM — Data Link

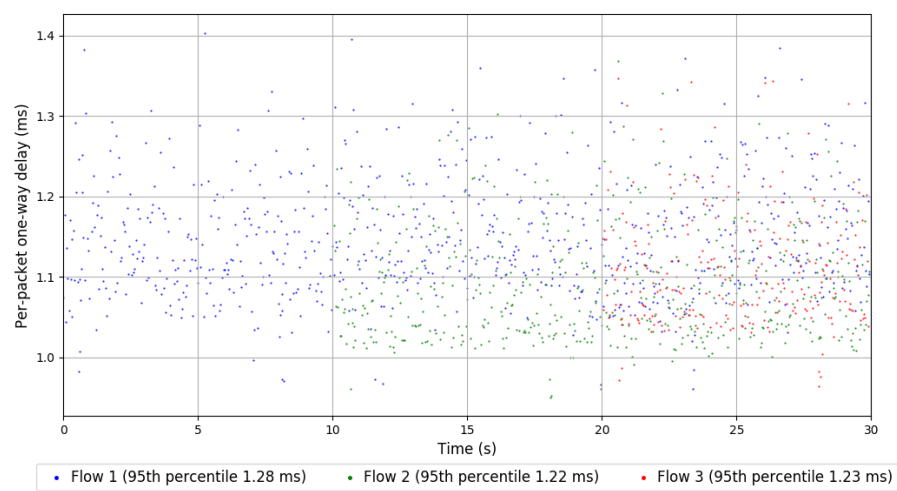
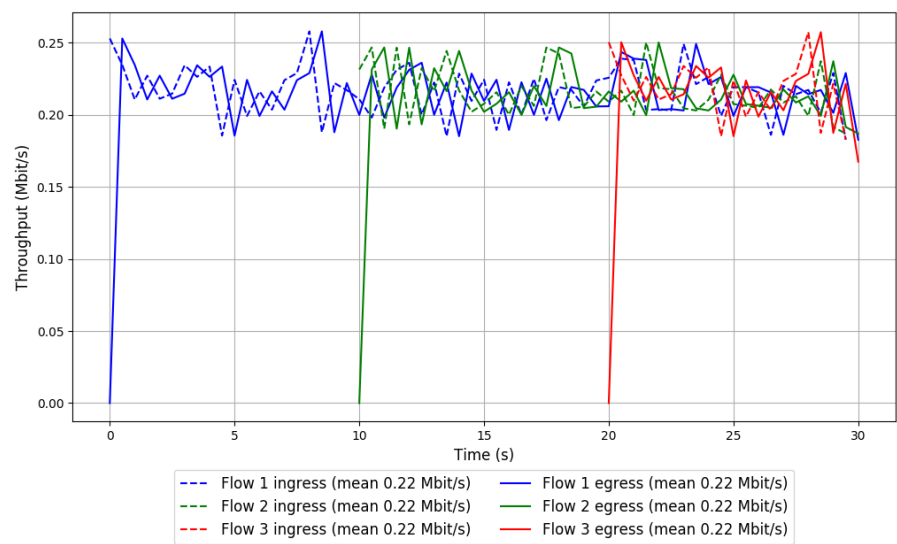


Run 7: Statistics of SReAM

Start at: 2018-06-06 05:25:48
End at: 2018-06-06 05:26:18
Local clock offset: 2.122 ms
Remote clock offset: -0.507 ms

Below is generated by plot.py at 2018-06-06 08:45:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.268 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.281 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.223 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.228 ms
Loss rate: 0.36%

Run 7: Report of SReAM — Data Link

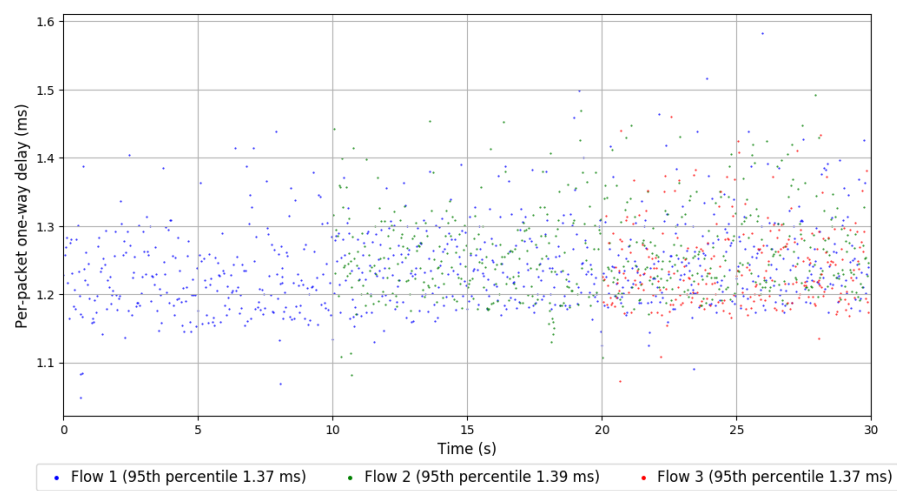
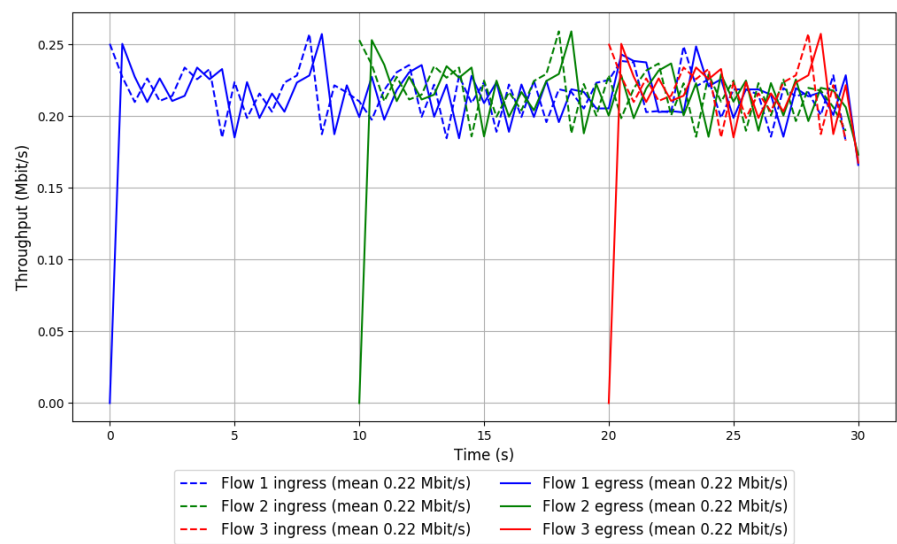


Run 8: Statistics of SReAM

Start at: 2018-06-06 05:51:07
End at: 2018-06-06 05:51:37
Local clock offset: 1.942 ms
Remote clock offset: -0.483 ms

Below is generated by plot.py at 2018-06-06 08:45:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.373 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.369 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.387 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.369 ms
Loss rate: 0.36%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-06-06 06:16:25

End at: 2018-06-06 06:16:55

Local clock offset: 1.418 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-06-06 08:45:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.362 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.368 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.354 ms

Loss rate: 0.19%

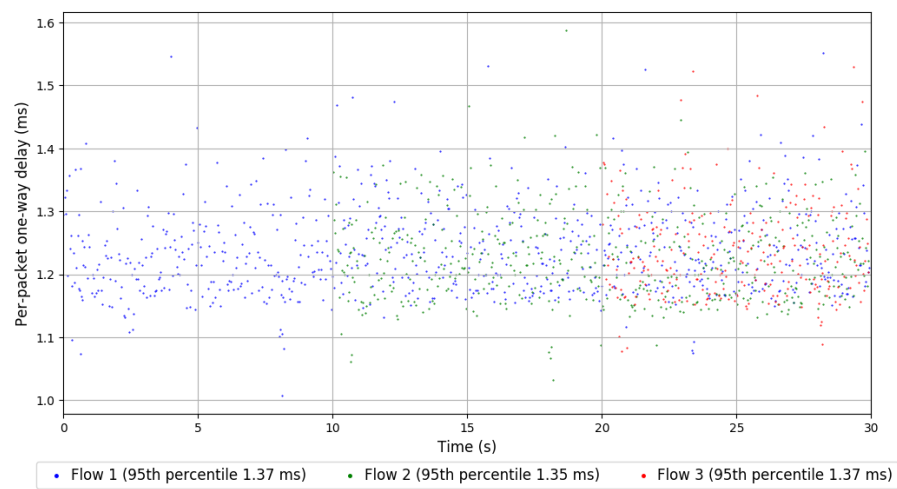
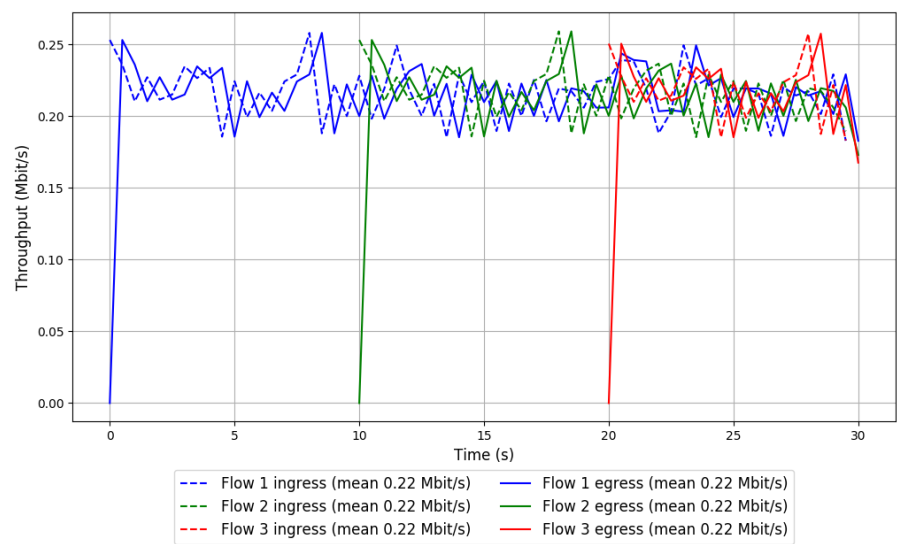
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.370 ms

Loss rate: 0.36%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-06-06 06:41:43

End at: 2018-06-06 06:42:13

Local clock offset: -0.147 ms

Remote clock offset: 0.073 ms

Below is generated by plot.py at 2018-06-06 08:45:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.163 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.173 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.150 ms

Loss rate: 0.19%

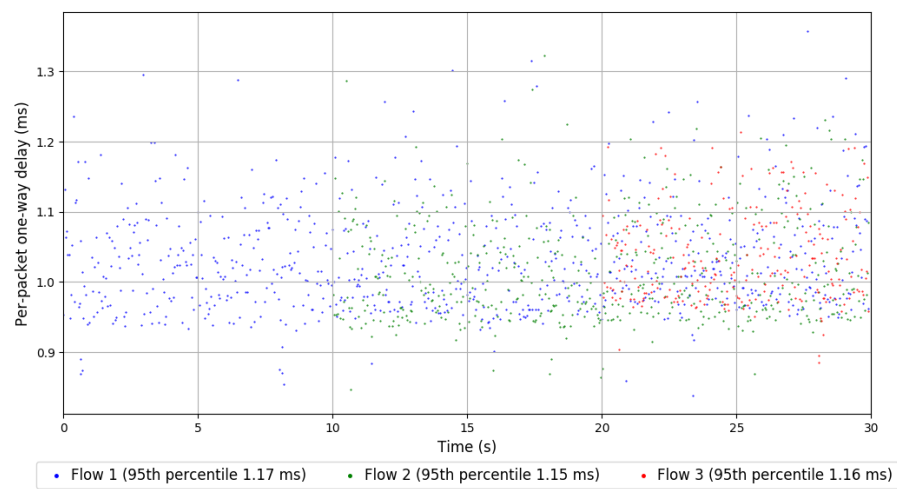
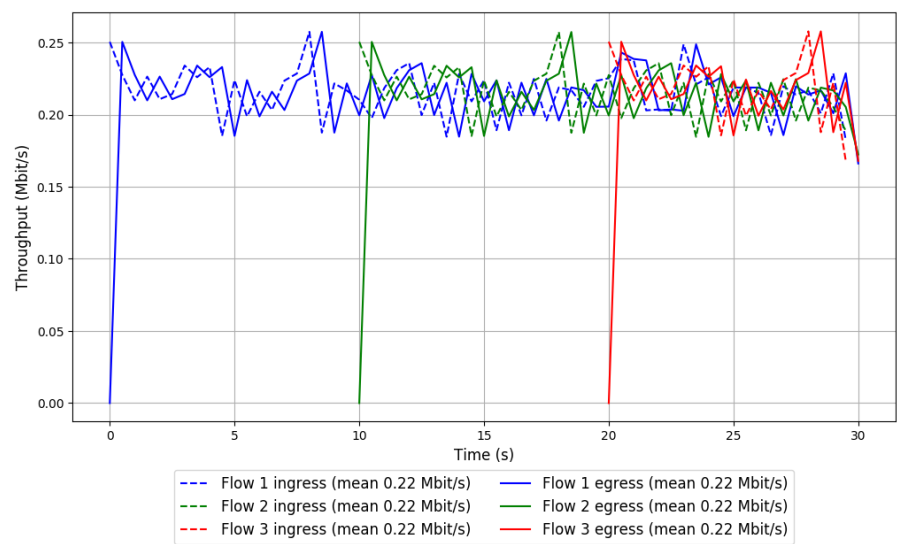
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.162 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-06-06 03:09:50

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

Local clock offset: 0.229 ms

Remote clock offset: 0.199 ms

Below is generated by plot.py at 2018-06-06 08:45:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.00 Mbit/s

95th percentile per-packet one-way delay: 1.108 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 20.96 Mbit/s

95th percentile per-packet one-way delay: 1.104 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 21.51 Mbit/s

95th percentile per-packet one-way delay: 1.118 ms

Loss rate: 0.00%

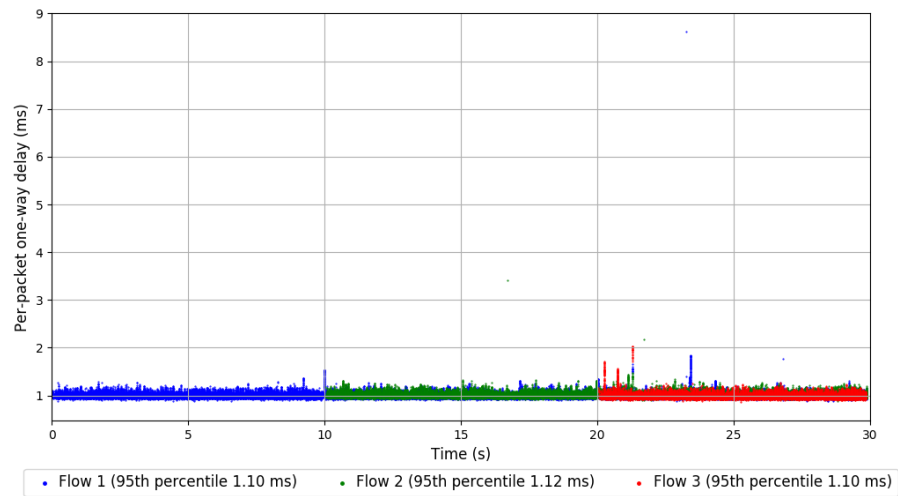
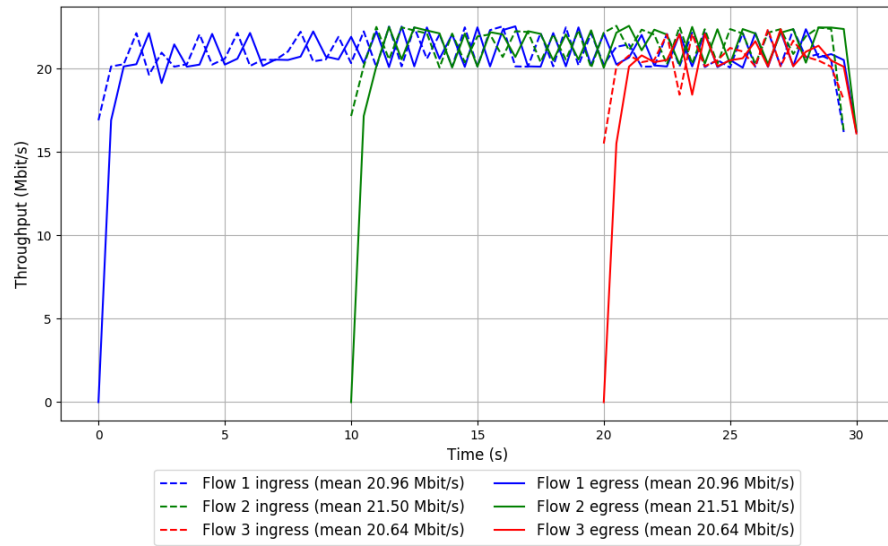
-- Flow 3:

Average throughput: 20.64 Mbit/s

95th percentile per-packet one-way delay: 1.096 ms

Loss rate: 0.50%

Run 1: Report of Sprout — Data Link

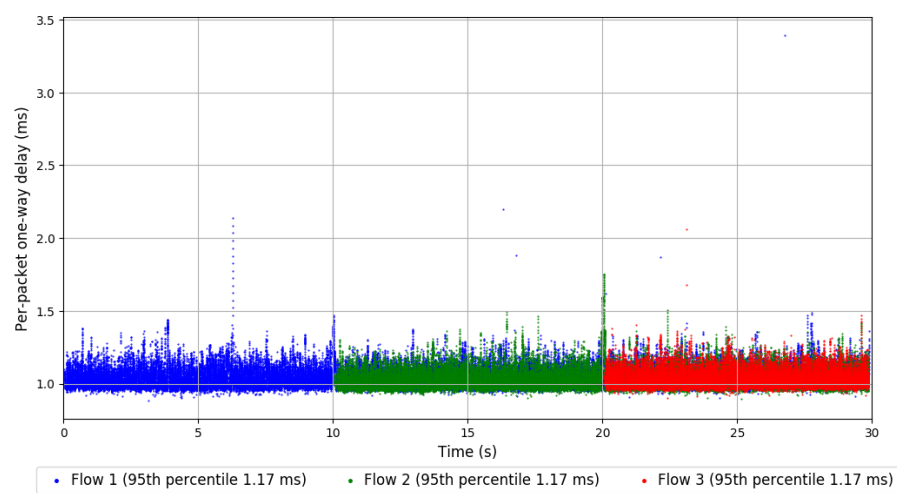
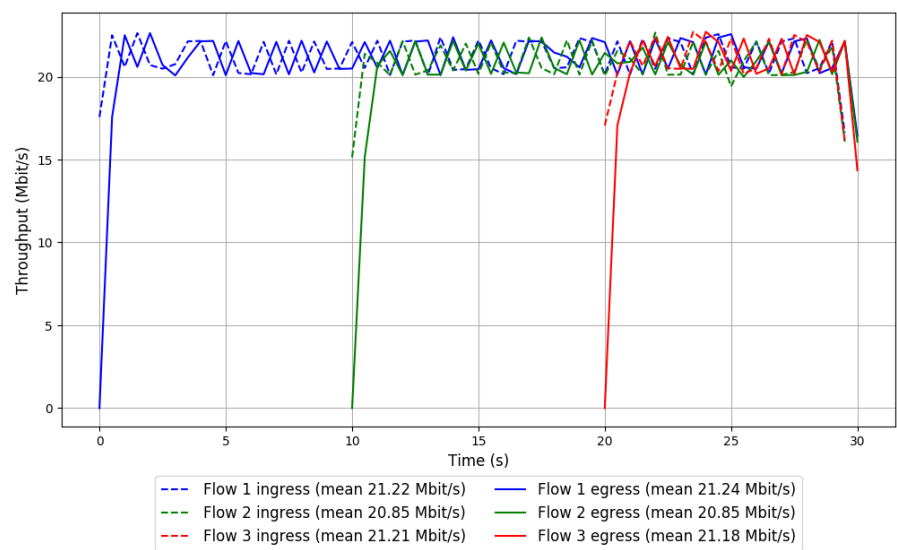


Run 2: Statistics of Sprout

Start at: 2018-06-06 03:35:09
End at: 2018-06-06 03:35:39
Local clock offset: 0.597 ms
Remote clock offset: 0.89 ms

Below is generated by plot.py at 2018-06-06 08:45:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 42.04 Mbit/s
95th percentile per-packet one-way delay: 1.170 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 21.24 Mbit/s
95th percentile per-packet one-way delay: 1.172 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 20.85 Mbit/s
95th percentile per-packet one-way delay: 1.169 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 21.18 Mbit/s
95th percentile per-packet one-way delay: 1.167 ms
Loss rate: 0.43%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-06-06 04:00:21

End at: 2018-06-06 04:00:51

Local clock offset: 1.124 ms

Remote clock offset: 0.325 ms

Below is generated by plot.py at 2018-06-06 08:45:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.50 Mbit/s

95th percentile per-packet one-way delay: 1.142 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 21.59 Mbit/s

95th percentile per-packet one-way delay: 1.138 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 21.29 Mbit/s

95th percentile per-packet one-way delay: 1.145 ms

Loss rate: 0.24%

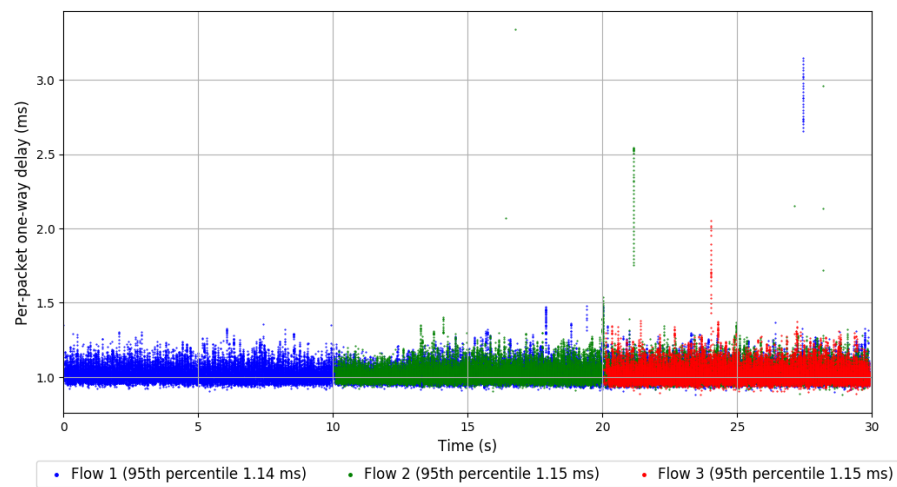
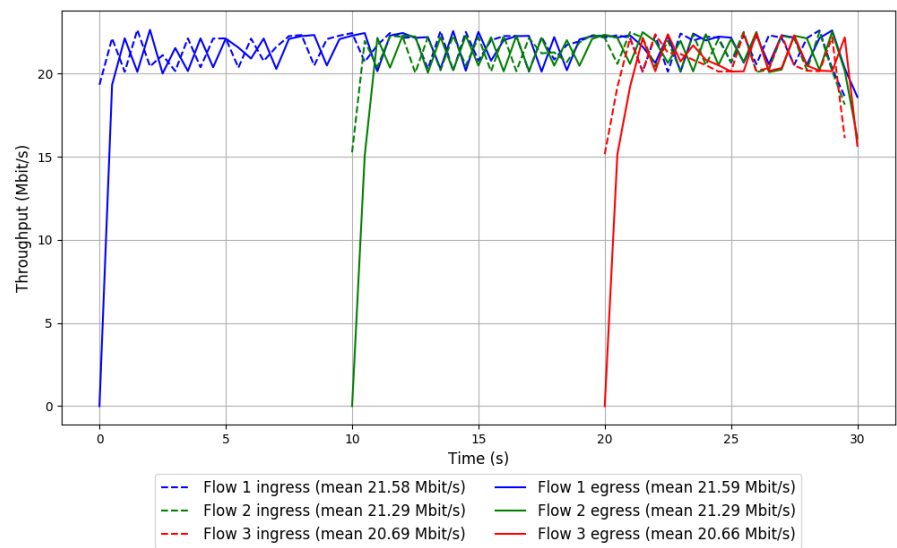
-- Flow 3:

Average throughput: 20.66 Mbit/s

95th percentile per-packet one-way delay: 1.154 ms

Loss rate: 0.11%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-06-06 04:25:42

End at: 2018-06-06 04:26:12

Local clock offset: 1.643 ms

Remote clock offset: 0.181 ms

Below is generated by plot.py at 2018-06-06 08:45:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.79 Mbit/s

95th percentile per-packet one-way delay: 1.173 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 20.99 Mbit/s

95th percentile per-packet one-way delay: 1.182 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 21.06 Mbit/s

95th percentile per-packet one-way delay: 1.161 ms

Loss rate: 0.24%

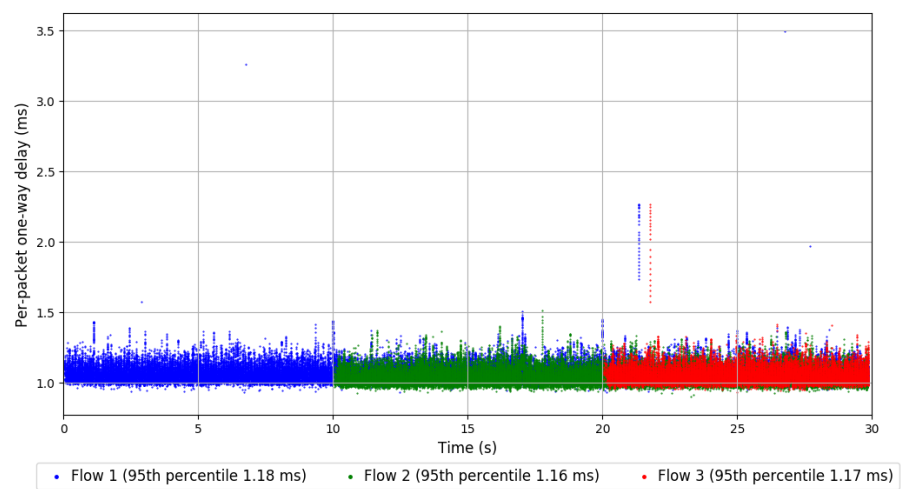
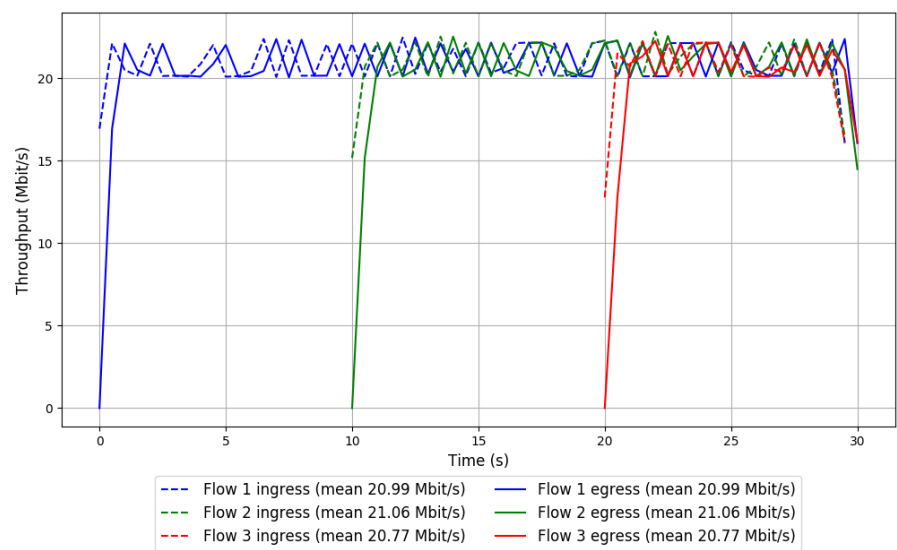
-- Flow 3:

Average throughput: 20.77 Mbit/s

95th percentile per-packet one-way delay: 1.167 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

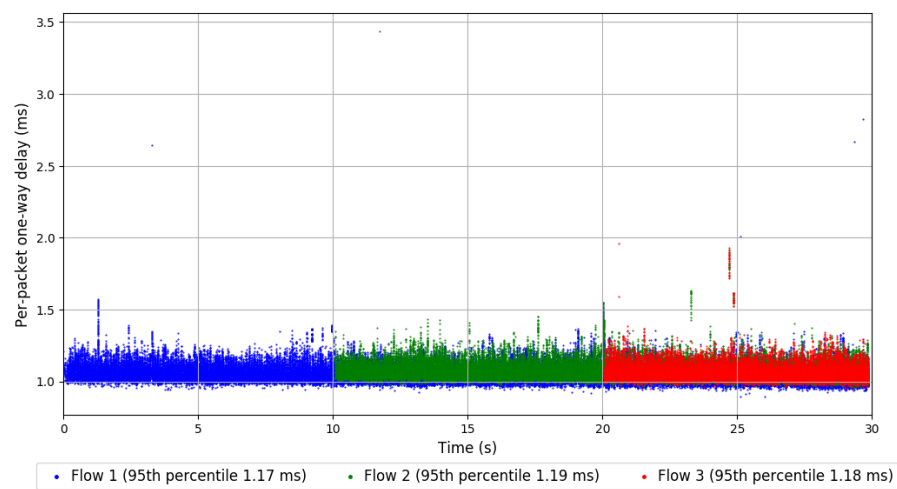
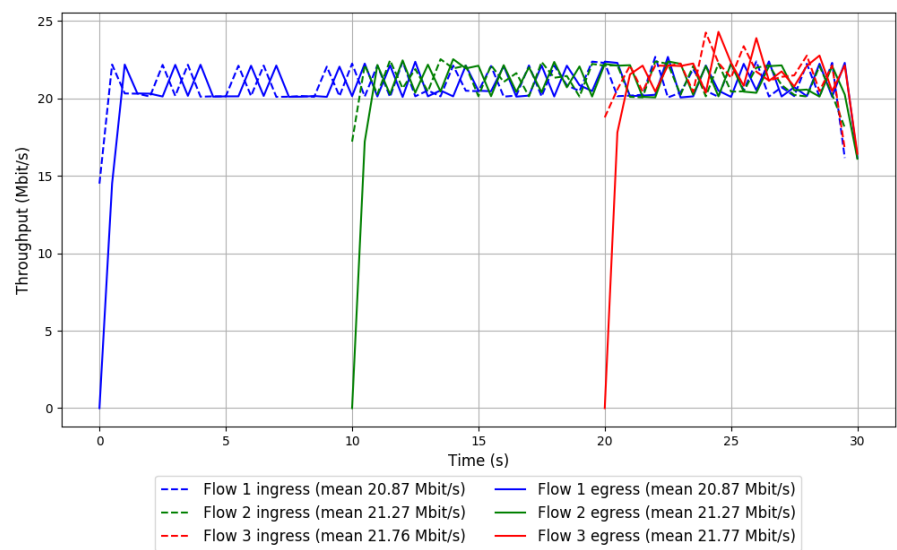


Run 5: Statistics of Sprout

Start at: 2018-06-06 04:50:58
End at: 2018-06-06 04:51:28
Local clock offset: 1.909 ms
Remote clock offset: -0.085 ms

Below is generated by plot.py at 2018-06-06 08:45:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 42.14 Mbit/s
95th percentile per-packet one-way delay: 1.179 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 20.87 Mbit/s
95th percentile per-packet one-way delay: 1.171 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 21.27 Mbit/s
95th percentile per-packet one-way delay: 1.190 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 21.77 Mbit/s
95th percentile per-packet one-way delay: 1.179 ms
Loss rate: 0.07%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-06-06 05:16:07

End at: 2018-06-06 05:16:37

Local clock offset: 2.393 ms

Remote clock offset: -0.5 ms

Below is generated by plot.py at 2018-06-06 08:45:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.67 Mbit/s

95th percentile per-packet one-way delay: 1.170 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 20.98 Mbit/s

95th percentile per-packet one-way delay: 1.173 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 20.86 Mbit/s

95th percentile per-packet one-way delay: 1.175 ms

Loss rate: 0.00%

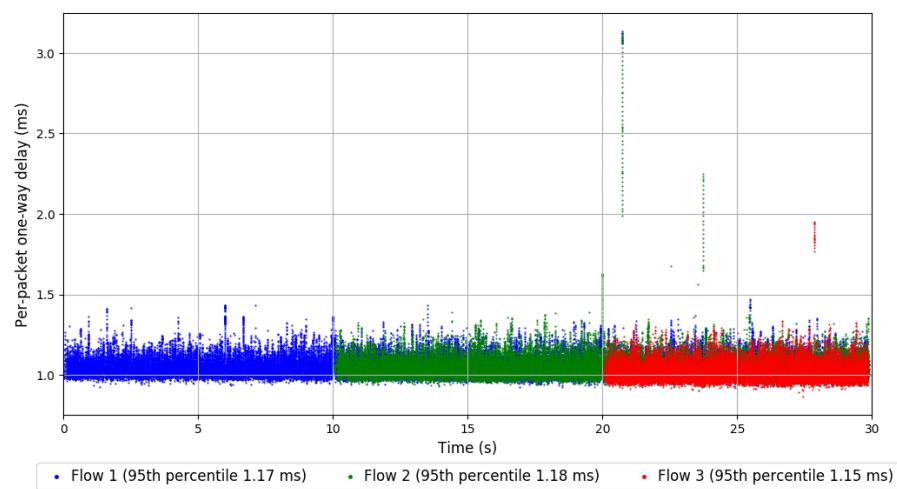
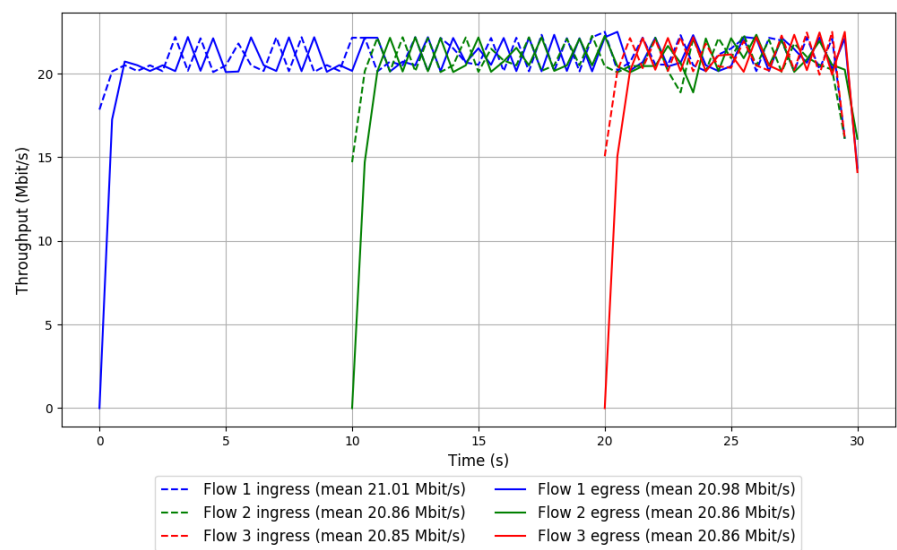
-- Flow 3:

Average throughput: 20.86 Mbit/s

95th percentile per-packet one-way delay: 1.149 ms

Loss rate: 0.49%

Run 6: Report of Sprout — Data Link

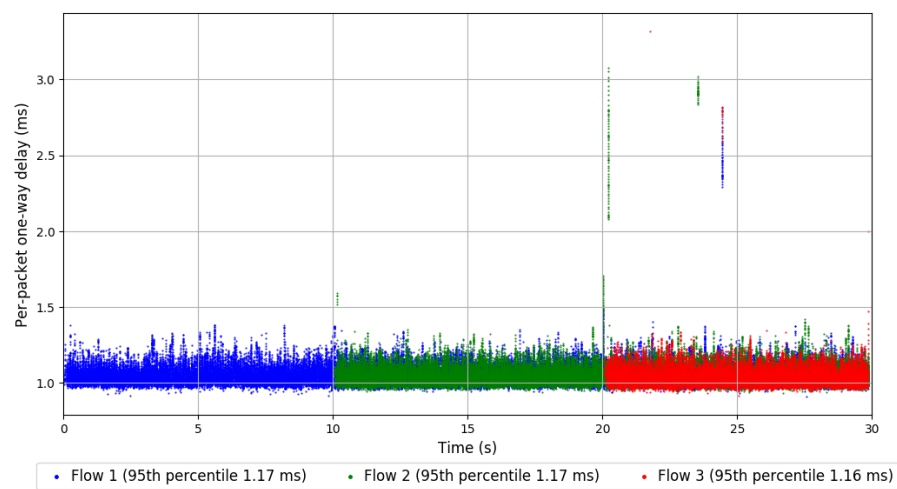
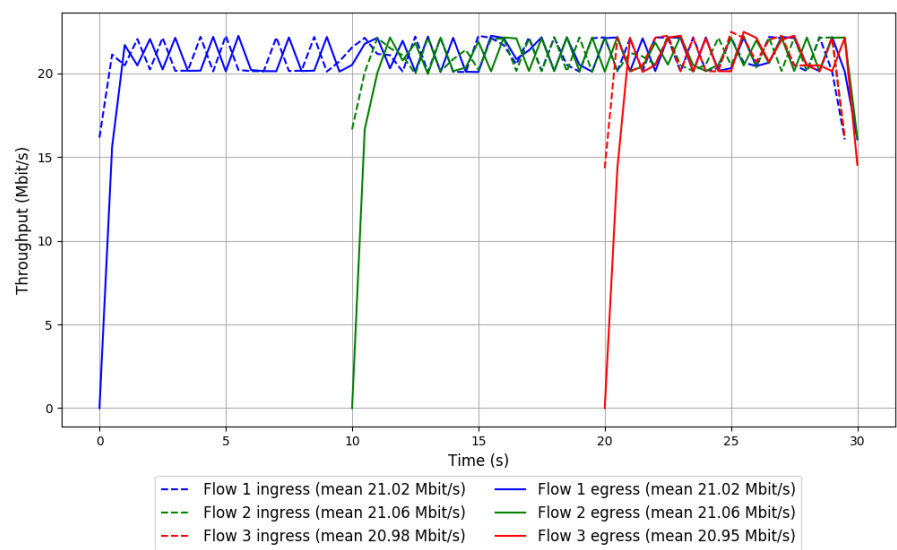


Run 7: Statistics of Sprout

Start at: 2018-06-06 05:41:32
End at: 2018-06-06 05:42:02
Local clock offset: 1.9 ms
Remote clock offset: -0.506 ms

Below is generated by plot.py at 2018-06-06 08:45:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.87 Mbit/s
95th percentile per-packet one-way delay: 1.168 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 21.02 Mbit/s
95th percentile per-packet one-way delay: 1.169 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 21.06 Mbit/s
95th percentile per-packet one-way delay: 1.173 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.95 Mbit/s
95th percentile per-packet one-way delay: 1.158 ms
Loss rate: 0.39%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-06-06 06:06:47

End at: 2018-06-06 06:07:17

Local clock offset: 1.391 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2018-06-06 08:45:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.28 Mbit/s

95th percentile per-packet one-way delay: 1.104 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 21.60 Mbit/s

95th percentile per-packet one-way delay: 1.095 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 20.88 Mbit/s

95th percentile per-packet one-way delay: 1.117 ms

Loss rate: 0.00%

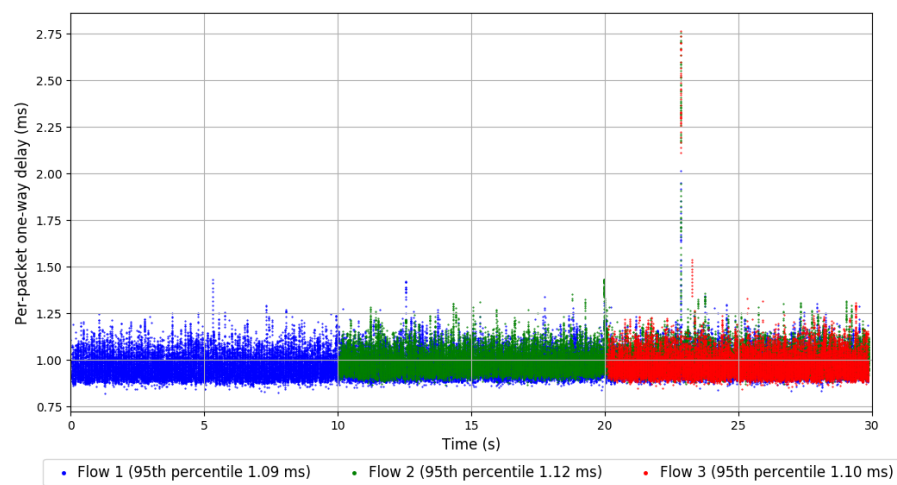
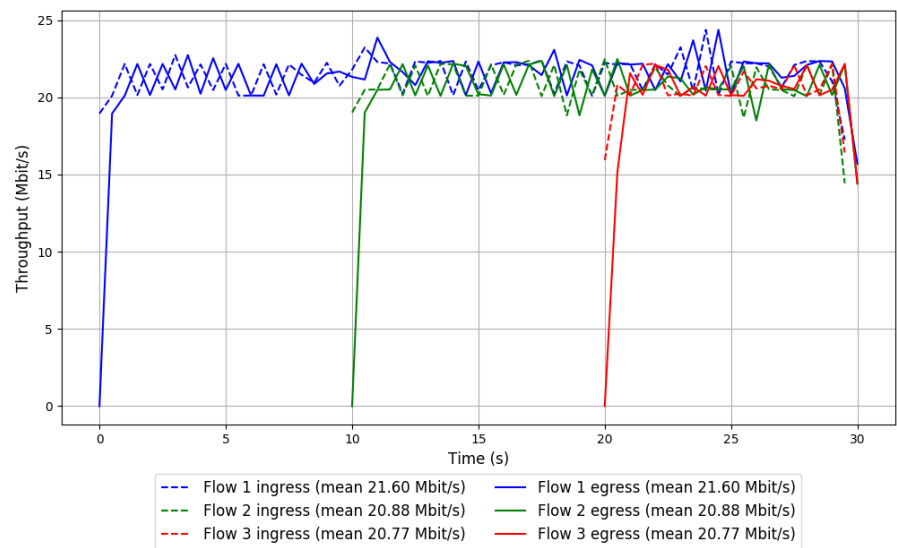
-- Flow 3:

Average throughput: 20.77 Mbit/s

95th percentile per-packet one-way delay: 1.102 ms

Loss rate: 0.49%

Run 8: Report of Sprout — Data Link

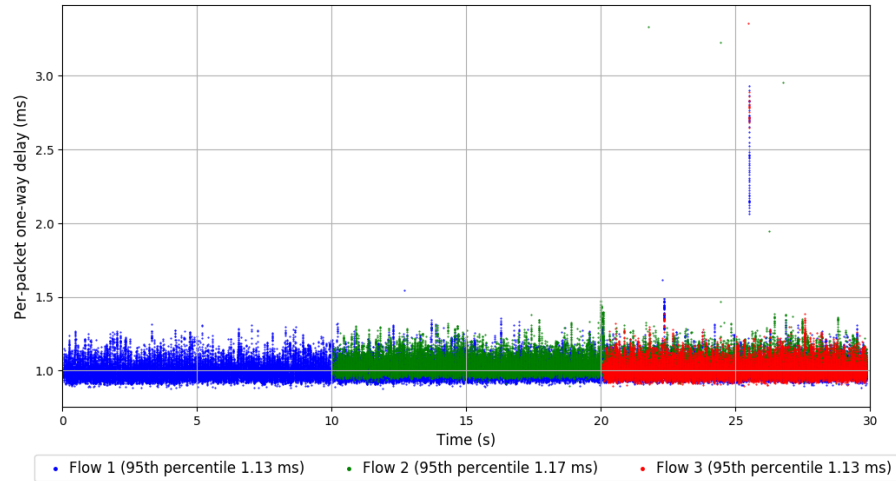
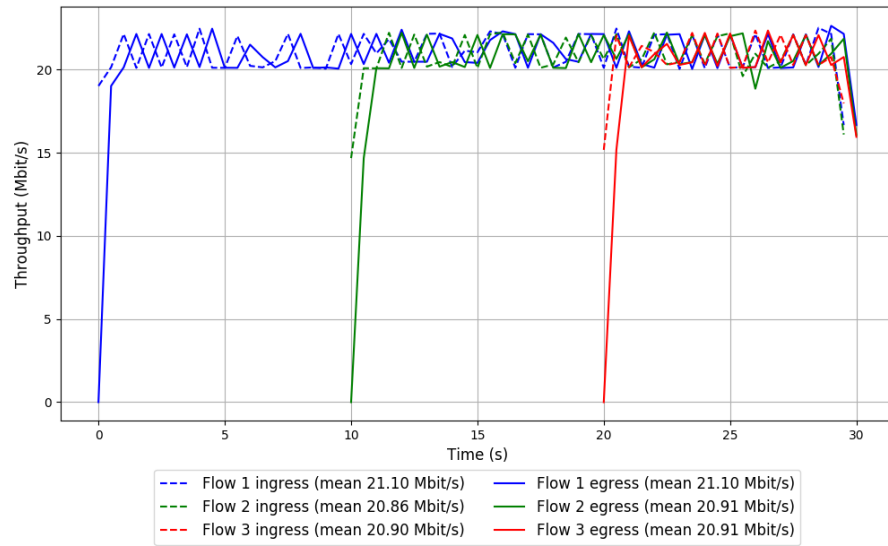


Run 9: Statistics of Sprout

Start at: 2018-06-06 06:32:11
End at: 2018-06-06 06:32:41
Local clock offset: 0.211 ms
Remote clock offset: 0.16 ms

Below is generated by plot.py at 2018-06-06 08:45:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.84 Mbit/s
95th percentile per-packet one-way delay: 1.144 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 21.10 Mbit/s
95th percentile per-packet one-way delay: 1.132 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.91 Mbit/s
95th percentile per-packet one-way delay: 1.166 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.91 Mbit/s
95th percentile per-packet one-way delay: 1.131 ms
Loss rate: 0.49%

Run 9: Report of Sprout — Data Link

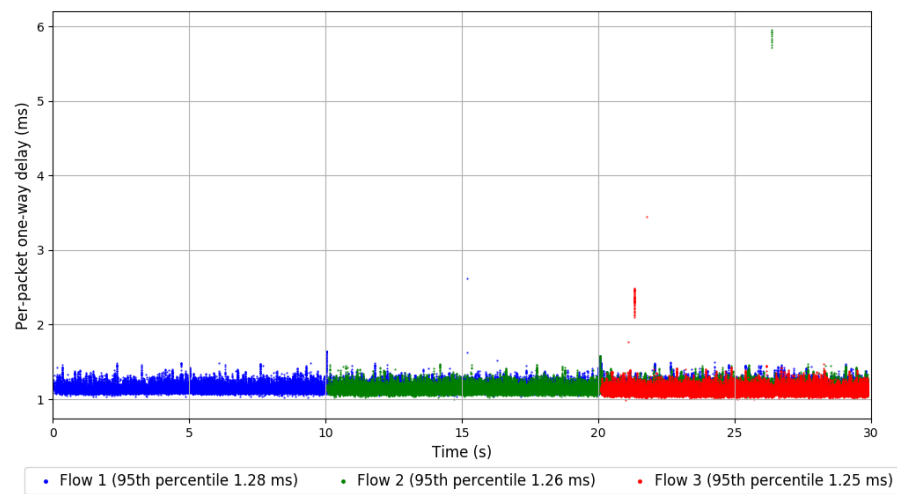
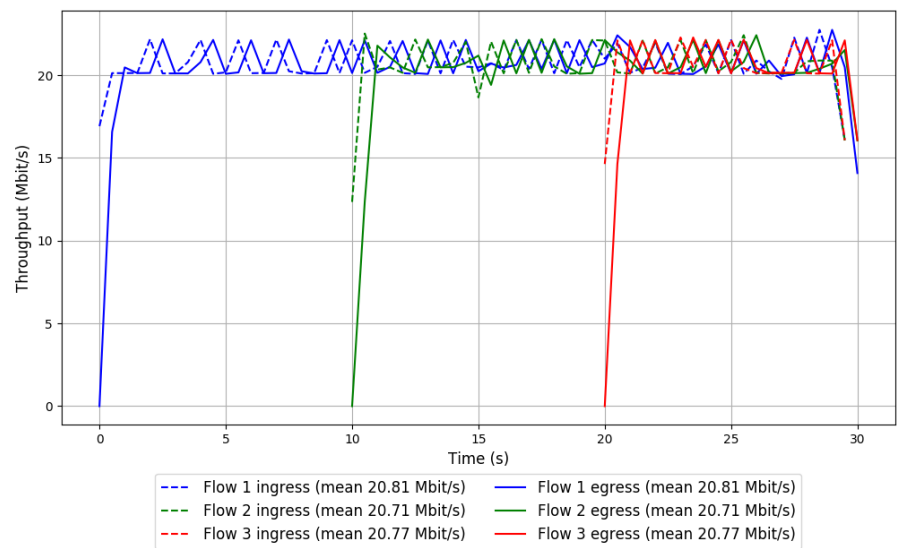


Run 10: Statistics of Sprout

Start at: 2018-06-06 06:57:24
End at: 2018-06-06 06:57:54
Local clock offset: -0.378 ms
Remote clock offset: -0.067 ms

Below is generated by plot.py at 2018-06-06 08:45:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.38 Mbit/s
95th percentile per-packet one-way delay: 1.270 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 20.81 Mbit/s
95th percentile per-packet one-way delay: 1.280 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 20.71 Mbit/s
95th percentile per-packet one-way delay: 1.265 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.77 Mbit/s
95th percentile per-packet one-way delay: 1.252 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

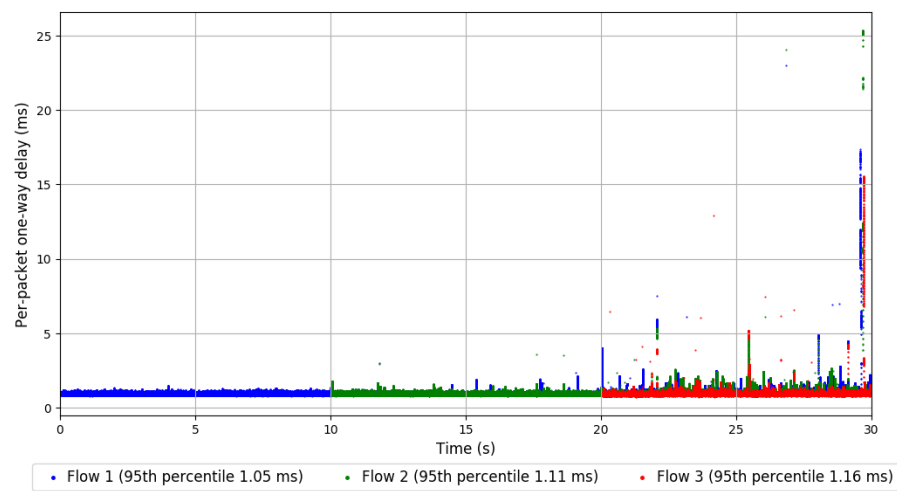
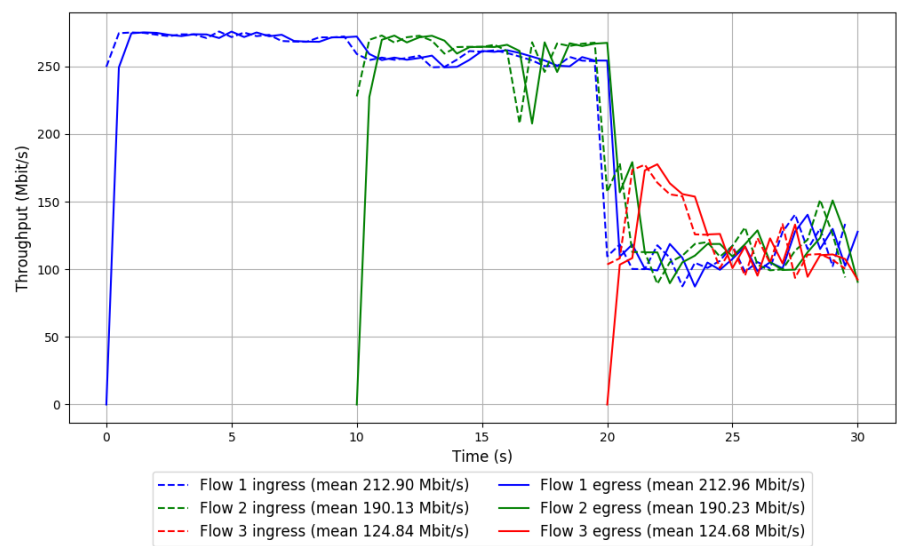


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-06 02:52:32
End at: 2018-06-06 02:53:02
Local clock offset: -0.26 ms
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2018-06-06 08:52:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 380.91 Mbit/s
95th percentile per-packet one-way delay: 1.081 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 212.96 Mbit/s
95th percentile per-packet one-way delay: 1.054 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 190.23 Mbit/s
95th percentile per-packet one-way delay: 1.107 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 124.68 Mbit/s
95th percentile per-packet one-way delay: 1.157 ms
Loss rate: 0.32%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-06-06 03:17:43

End at: 2018-06-06 03:18:13

Local clock offset: 0.398 ms

Remote clock offset: 0.347 ms

Below is generated by plot.py at 2018-06-06 08:52:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 383.23 Mbit/s

95th percentile per-packet one-way delay: 1.122 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 216.73 Mbit/s

95th percentile per-packet one-way delay: 1.106 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 189.32 Mbit/s

95th percentile per-packet one-way delay: 1.111 ms

Loss rate: 0.09%

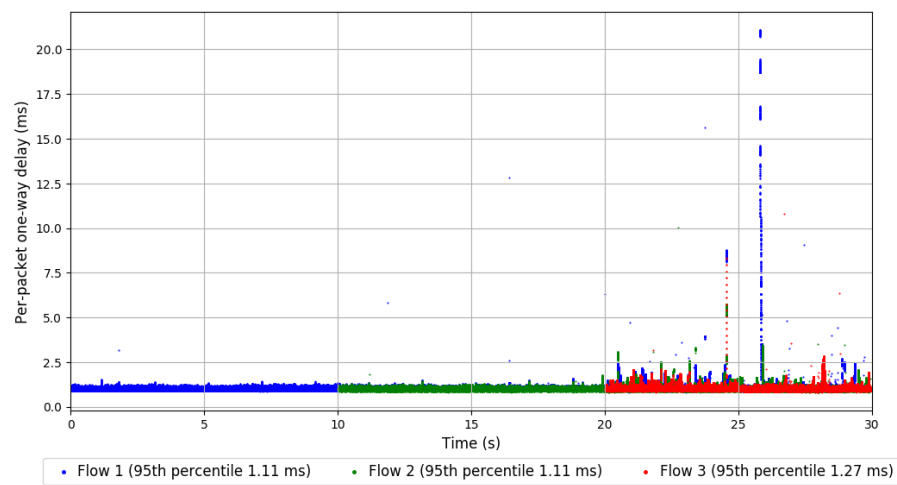
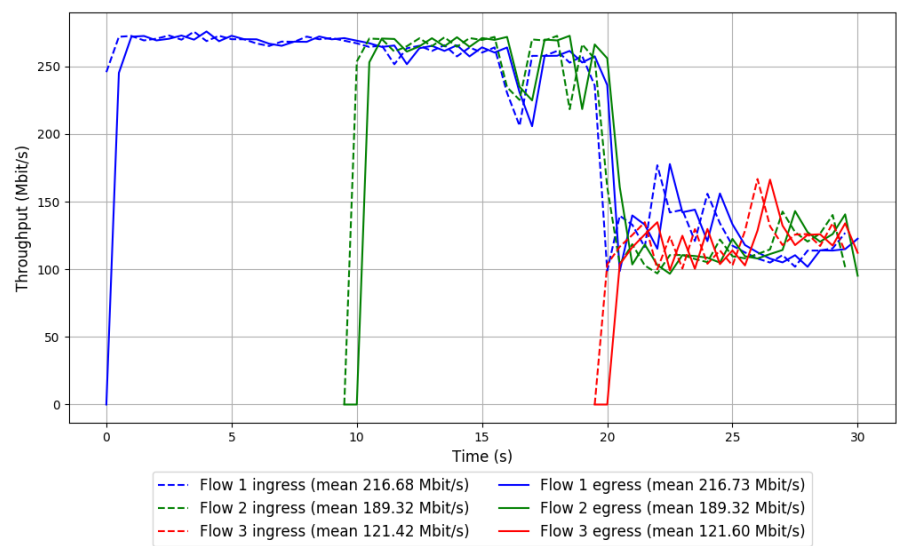
-- Flow 3:

Average throughput: 121.60 Mbit/s

95th percentile per-packet one-way delay: 1.272 ms

Loss rate: 0.05%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-06-06 03:42:59

End at: 2018-06-06 03:43:29

Local clock offset: 0.739 ms

Remote clock offset: 0.745 ms

Below is generated by plot.py at 2018-06-06 08:52:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 393.38 Mbit/s

95th percentile per-packet one-way delay: 1.164 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 219.79 Mbit/s

95th percentile per-packet one-way delay: 1.159 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 196.44 Mbit/s

95th percentile per-packet one-way delay: 1.153 ms

Loss rate: 0.04%

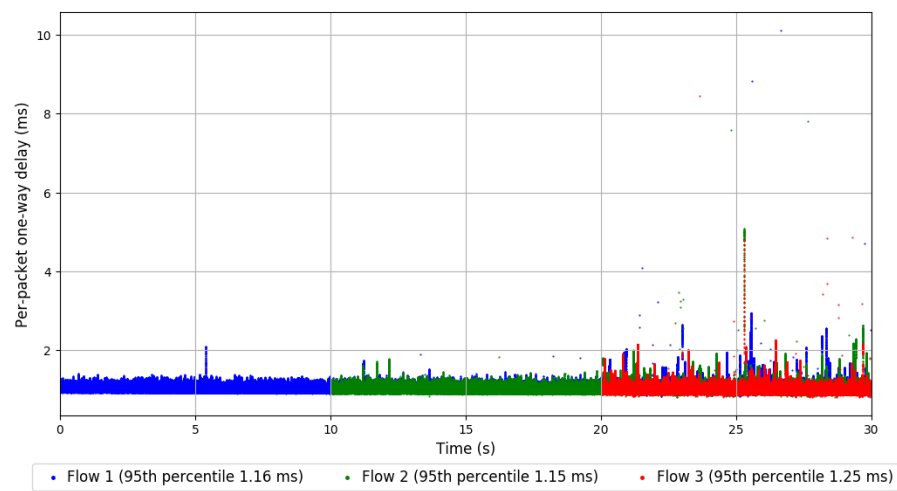
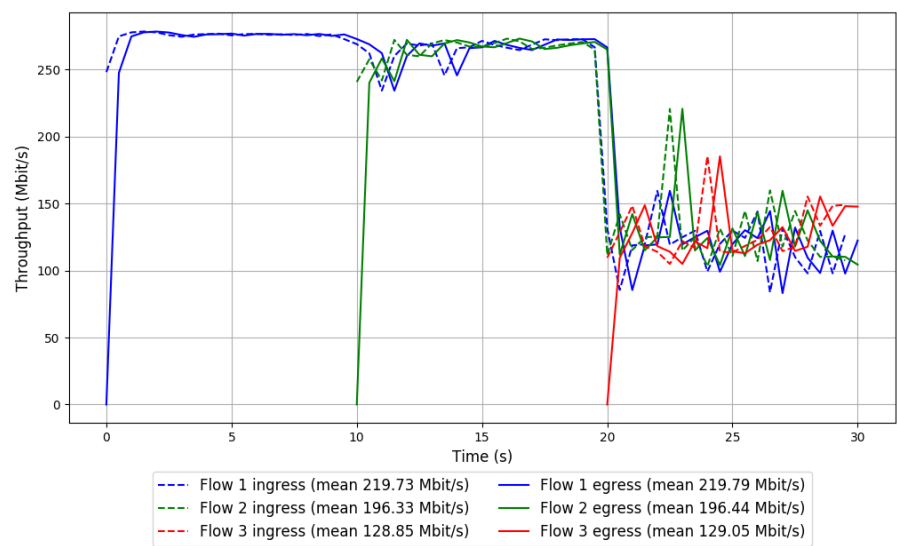
-- Flow 3:

Average throughput: 129.05 Mbit/s

95th percentile per-packet one-way delay: 1.253 ms

Loss rate: 0.07%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-06-06 04:08:17

End at: 2018-06-06 04:08:47

Local clock offset: 1.415 ms

Remote clock offset: 0.411 ms

Below is generated by plot.py at 2018-06-06 08:52:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 387.96 Mbit/s

95th percentile per-packet one-way delay: 1.223 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 216.22 Mbit/s

95th percentile per-packet one-way delay: 1.205 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 197.48 Mbit/s

95th percentile per-packet one-way delay: 1.227 ms

Loss rate: 0.03%

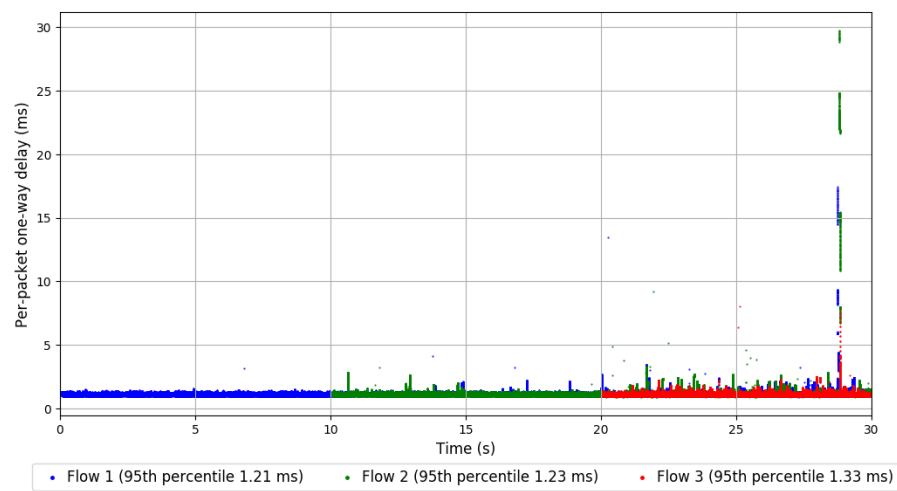
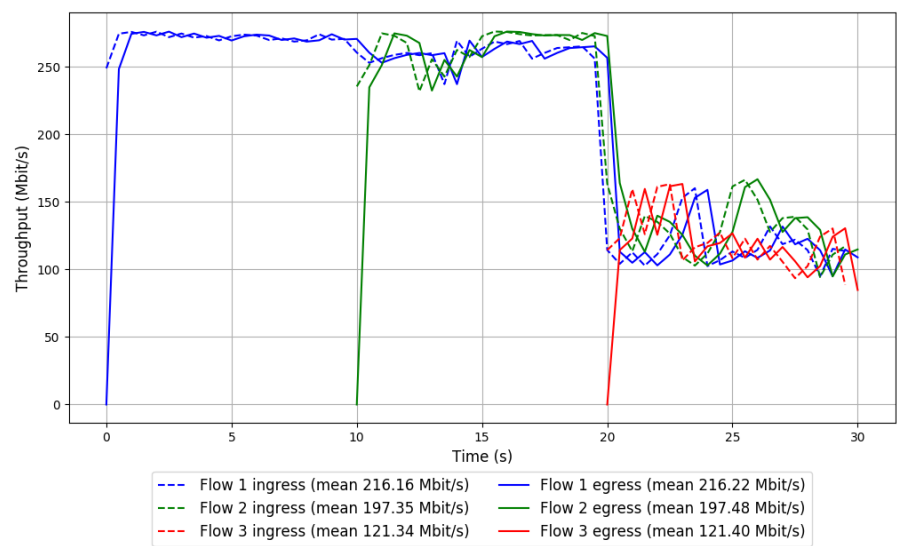
-- Flow 3:

Average throughput: 121.40 Mbit/s

95th percentile per-packet one-way delay: 1.326 ms

Loss rate: 0.16%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-06-06 04:33:35

End at: 2018-06-06 04:34:05

Local clock offset: 1.556 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2018-06-06 08:52:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 389.67 Mbit/s

95th percentile per-packet one-way delay: 1.173 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 218.34 Mbit/s

95th percentile per-packet one-way delay: 1.151 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 200.60 Mbit/s

95th percentile per-packet one-way delay: 1.171 ms

Loss rate: 0.04%

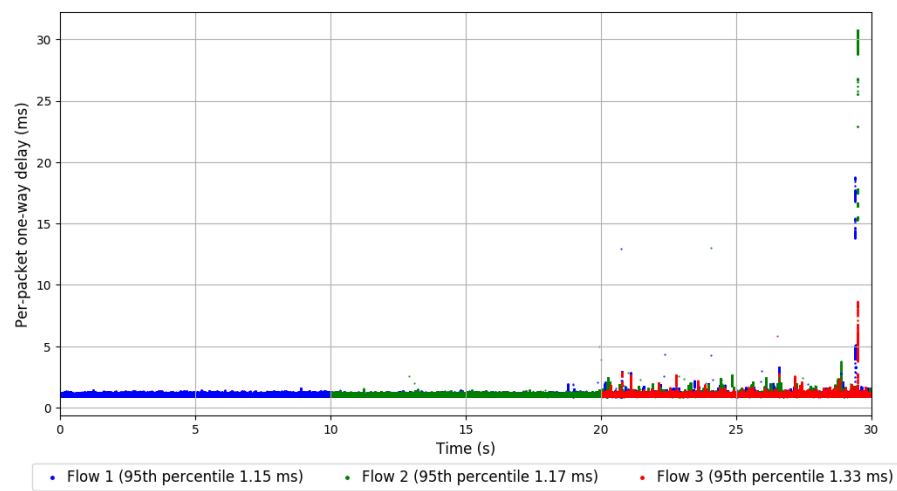
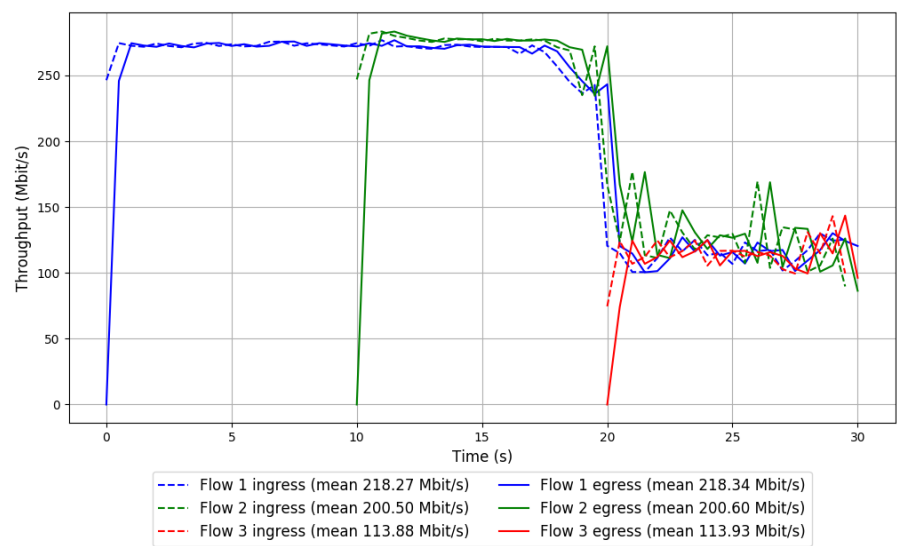
-- Flow 3:

Average throughput: 113.93 Mbit/s

95th percentile per-packet one-way delay: 1.329 ms

Loss rate: 0.16%

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

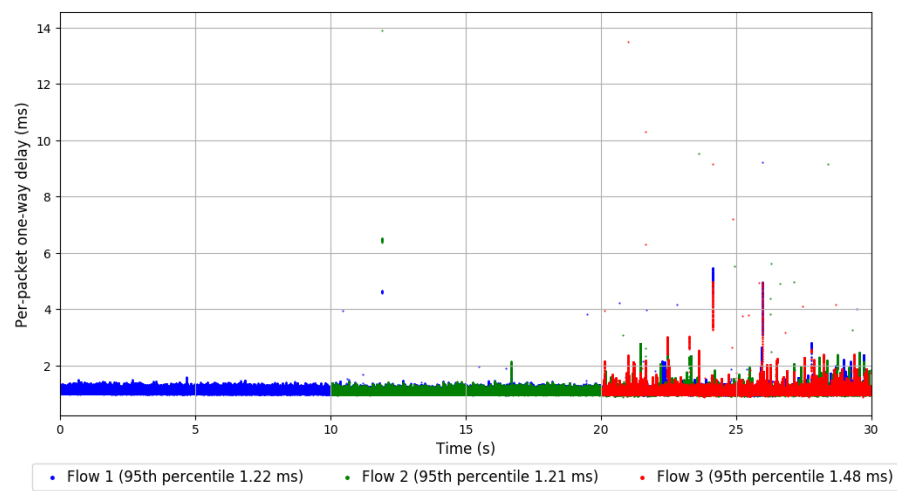
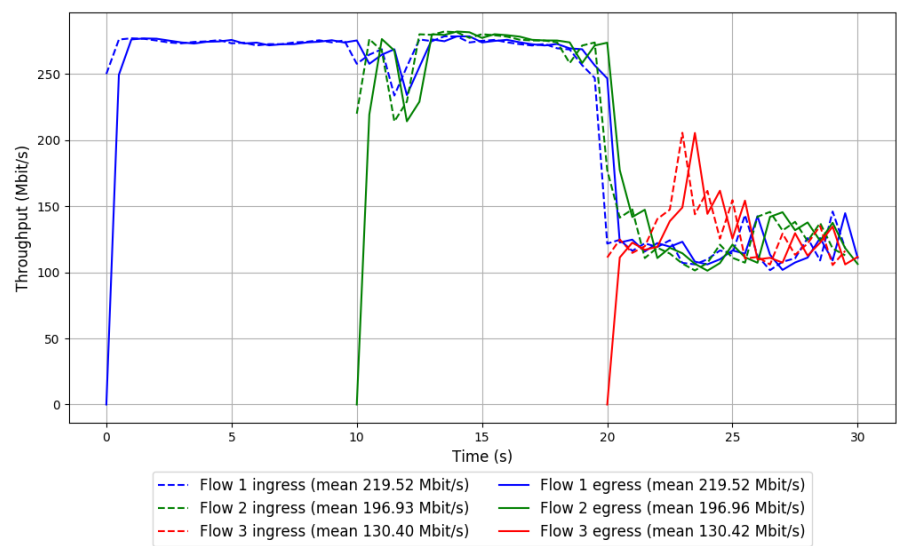


Run 6: Statistics of TaoVA-100x

Start at: 2018-06-06 04:58:48
End at: 2018-06-06 04:59:18
Local clock offset: 2.092 ms
Remote clock offset: -0.356 ms

Below is generated by plot.py at 2018-06-06 08:52:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 393.87 Mbit/s
95th percentile per-packet one-way delay: 1.234 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 219.52 Mbit/s
95th percentile per-packet one-way delay: 1.219 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 196.96 Mbit/s
95th percentile per-packet one-way delay: 1.212 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 130.42 Mbit/s
95th percentile per-packet one-way delay: 1.475 ms
Loss rate: 0.17%

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

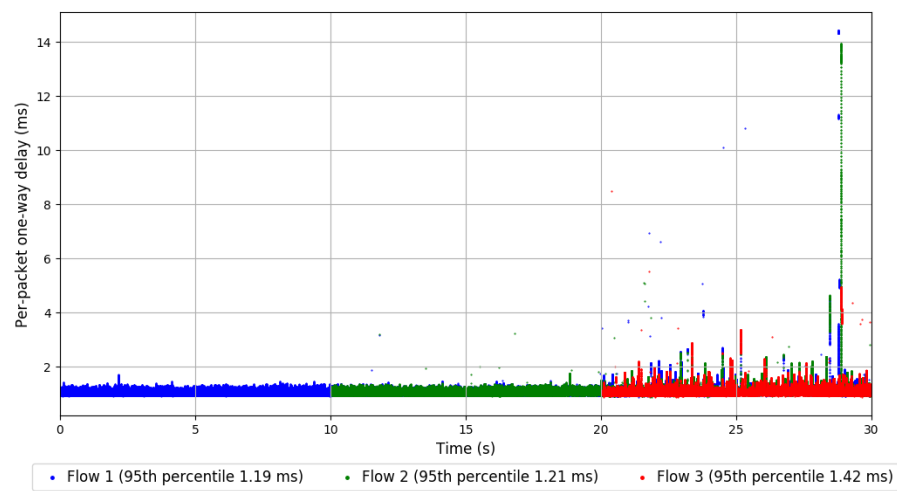
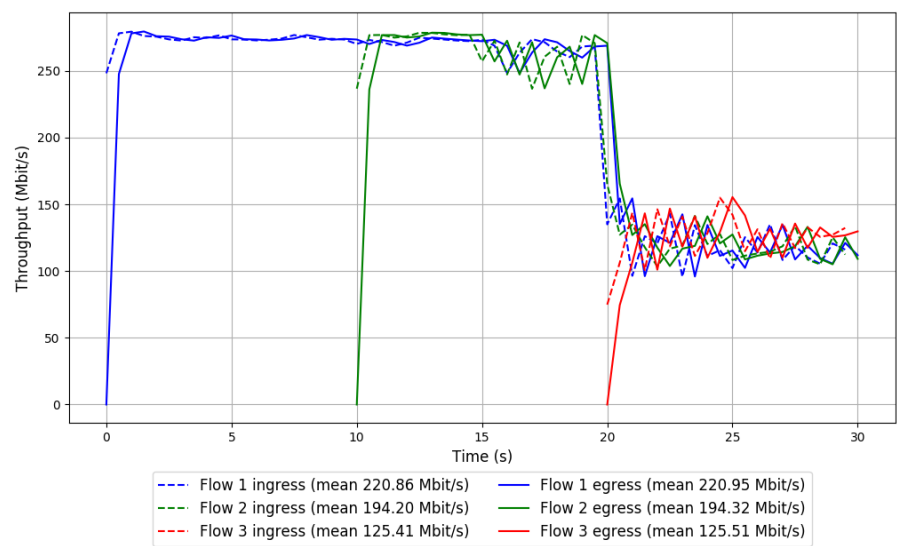


Run 7: Statistics of TaoVA-100x

Start at: 2018-06-06 05:24:06
End at: 2018-06-06 05:24:36
Local clock offset: 2.258 ms
Remote clock offset: -0.477 ms

Below is generated by plot.py at 2018-06-06 08:53:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 391.90 Mbit/s
95th percentile per-packet one-way delay: 1.217 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 220.95 Mbit/s
95th percentile per-packet one-way delay: 1.188 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 194.32 Mbit/s
95th percentile per-packet one-way delay: 1.214 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 125.51 Mbit/s
95th percentile per-packet one-way delay: 1.424 ms
Loss rate: 0.12%

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

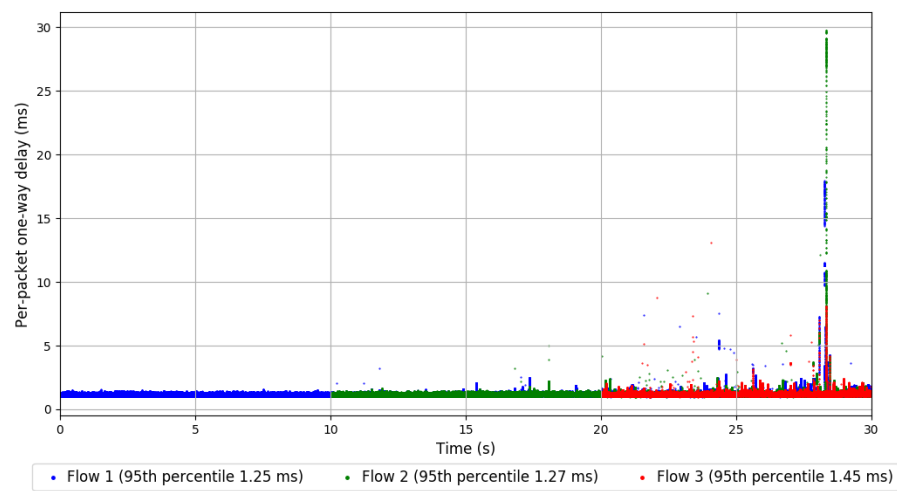
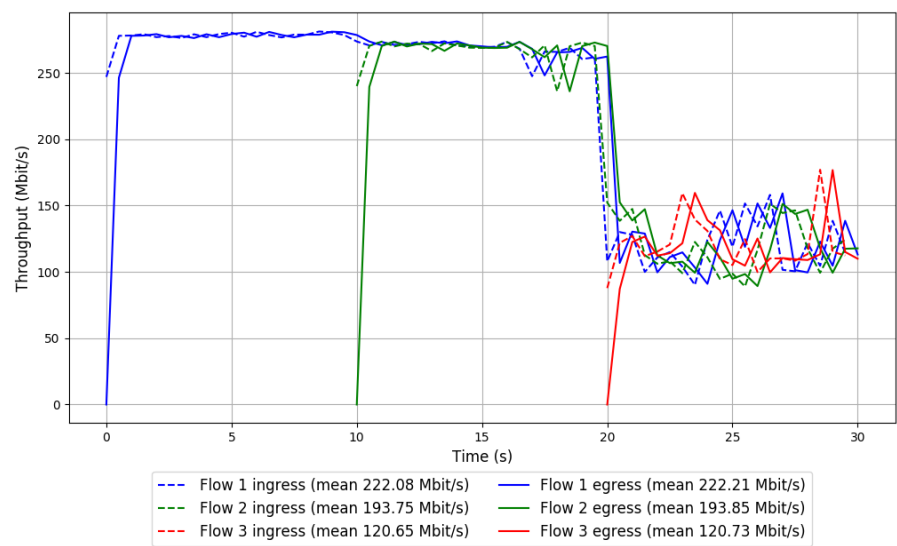


Run 8: Statistics of TaoVA-100x

Start at: 2018-06-06 05:49:25
End at: 2018-06-06 05:49:55
Local clock offset: 2.002 ms
Remote clock offset: -0.519 ms

Below is generated by plot.py at 2018-06-06 08:53:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 391.22 Mbit/s
95th percentile per-packet one-way delay: 1.274 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 222.21 Mbit/s
95th percentile per-packet one-way delay: 1.253 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 193.85 Mbit/s
95th percentile per-packet one-way delay: 1.269 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 120.73 Mbit/s
95th percentile per-packet one-way delay: 1.446 ms
Loss rate: 0.13%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-06-06 06:14:43

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

Local clock offset: 1.43 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-06-06 09:00:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 386.35 Mbit/s

95th percentile per-packet one-way delay: 1.328 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 221.14 Mbit/s

95th percentile per-packet one-way delay: 1.294 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 191.02 Mbit/s

95th percentile per-packet one-way delay: 1.349 ms

Loss rate: 0.07%

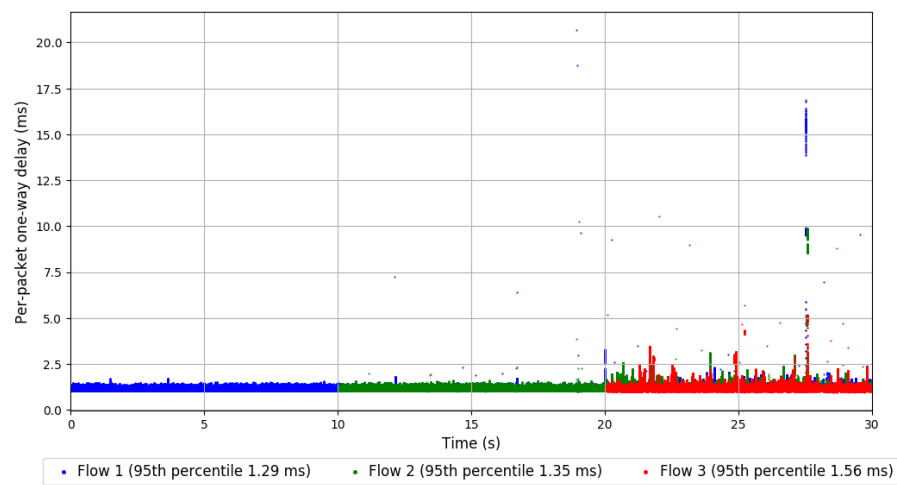
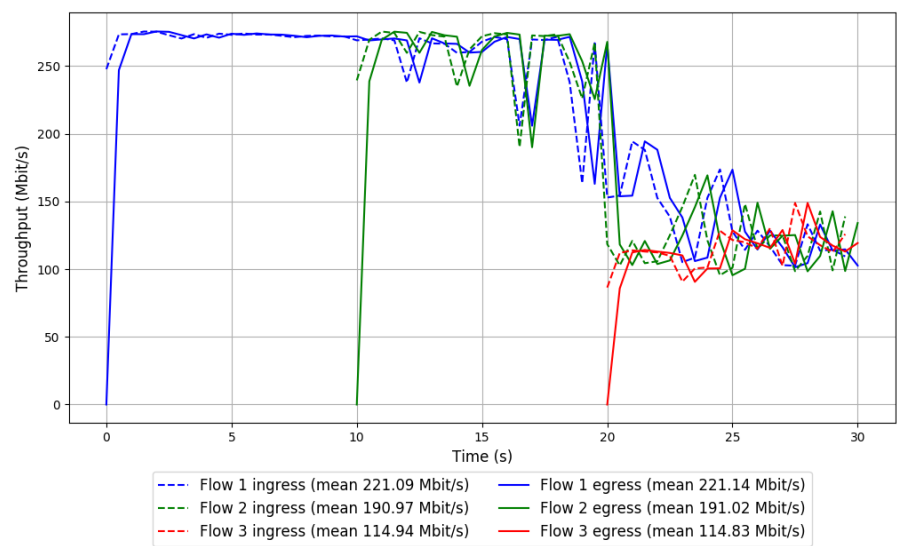
-- Flow 3:

Average throughput: 114.83 Mbit/s

95th percentile per-packet one-way delay: 1.558 ms

Loss rate: 0.30%

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

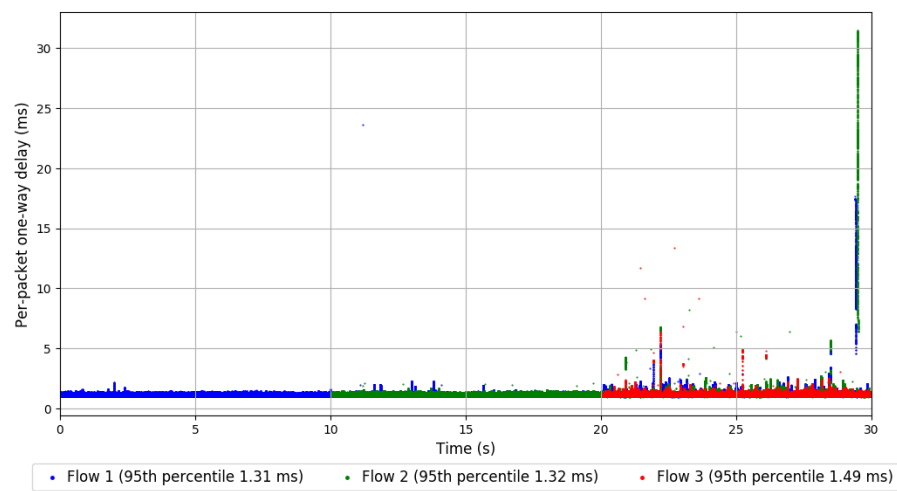
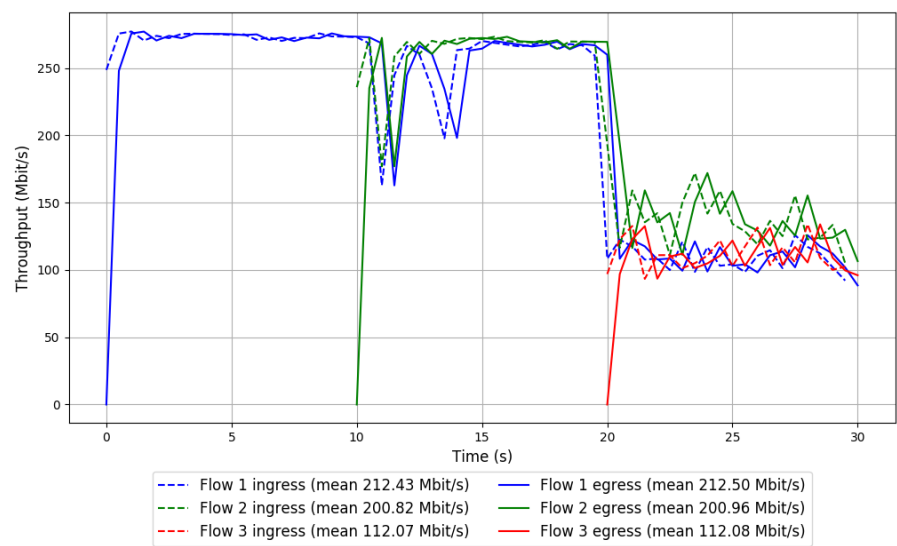


Run 10: Statistics of TaoVA-100x

Start at: 2018-06-06 06:40:02
End at: 2018-06-06 06:40:32
Local clock offset: 0.002 ms
Remote clock offset: -0.023 ms

Below is generated by plot.py at 2018-06-06 09:00:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 383.37 Mbit/s
95th percentile per-packet one-way delay: 1.336 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 212.50 Mbit/s
95th percentile per-packet one-way delay: 1.309 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 200.96 Mbit/s
95th percentile per-packet one-way delay: 1.323 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 112.08 Mbit/s
95th percentile per-packet one-way delay: 1.492 ms
Loss rate: 0.31%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-06-06 02:59:56

End at: 2018-06-06 03:00:26

Local clock offset: 0.016 ms

Remote clock offset: 0.068 ms

Below is generated by plot.py at 2018-06-06 09:00:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 658.42 Mbit/s

95th percentile per-packet one-way delay: 1.710 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 245.39 Mbit/s

95th percentile per-packet one-way delay: 1.681 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 538.59 Mbit/s

95th percentile per-packet one-way delay: 1.725 ms

Loss rate: 0.07%

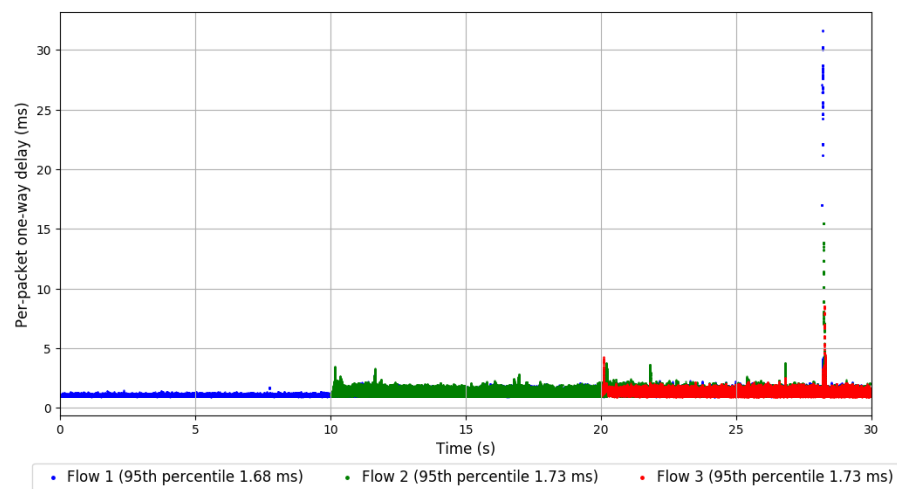
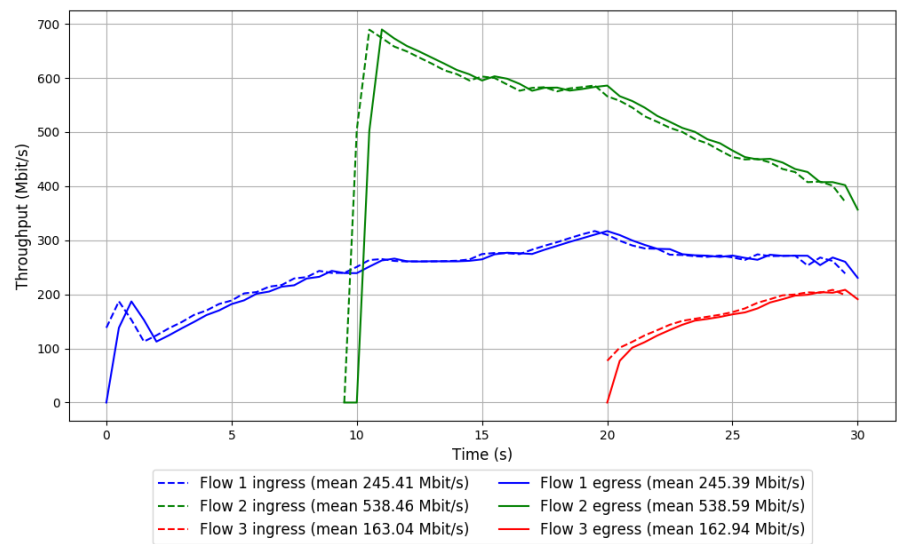
-- Flow 3:

Average throughput: 162.94 Mbit/s

95th percentile per-packet one-way delay: 1.728 ms

Loss rate: 0.25%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-06-06 03:25:15

End at: 2018-06-06 03:25:45

Local clock offset: 0.541 ms

Remote clock offset: 0.494 ms

Below is generated by plot.py at 2018-06-06 09:00:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 672.01 Mbit/s

95th percentile per-packet one-way delay: 1.755 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 355.68 Mbit/s

95th percentile per-packet one-way delay: 1.736 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 373.34 Mbit/s

95th percentile per-packet one-way delay: 1.752 ms

Loss rate: 0.09%

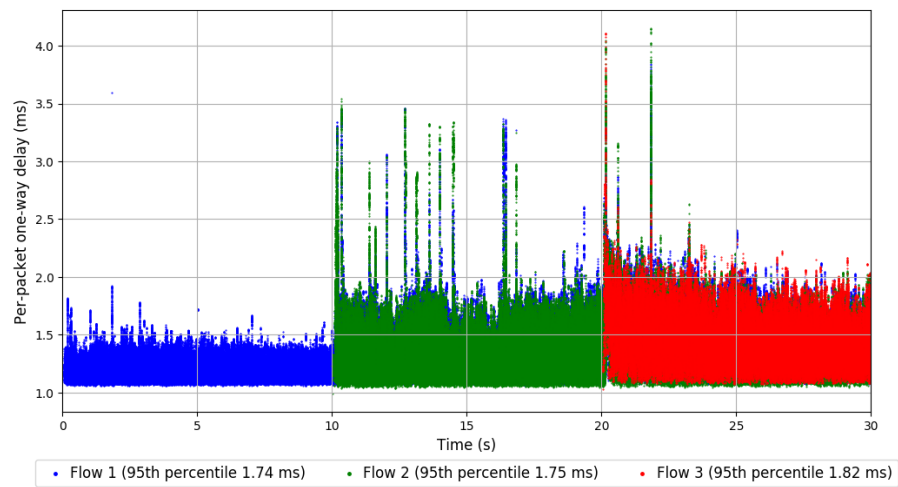
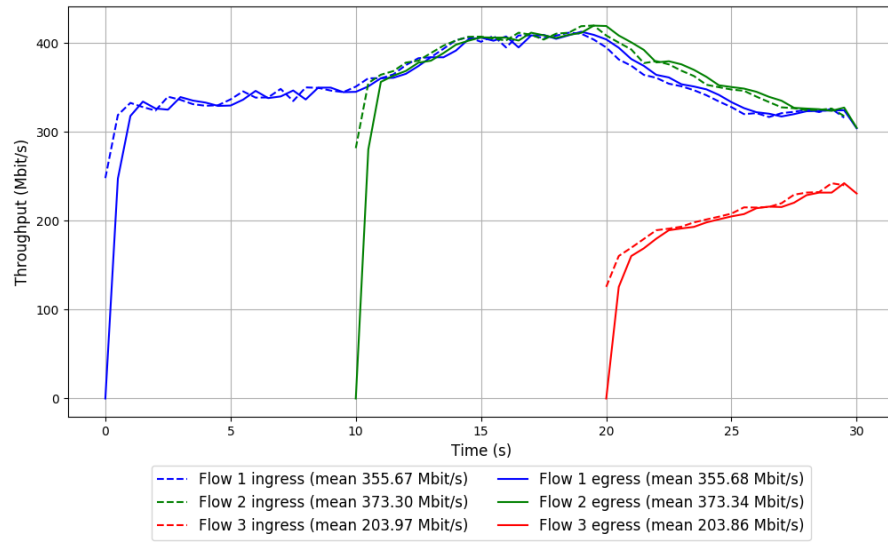
-- Flow 3:

Average throughput: 203.86 Mbit/s

95th percentile per-packet one-way delay: 1.824 ms

Loss rate: 0.26%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-06-06 03:50:29

End at: 2018-06-06 03:50:59

Local clock offset: 0.895 ms

Remote clock offset: 0.376 ms

Below is generated by plot.py at 2018-06-06 09:00:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 510.80 Mbit/s

95th percentile per-packet one-way delay: 1.647 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 265.47 Mbit/s

95th percentile per-packet one-way delay: 1.591 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 92.06 Mbit/s

95th percentile per-packet one-way delay: 1.569 ms

Loss rate: 0.04%

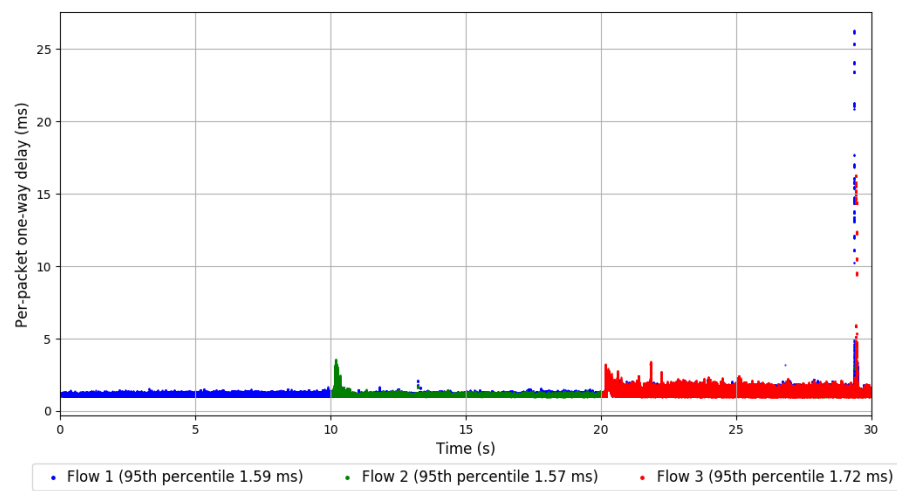
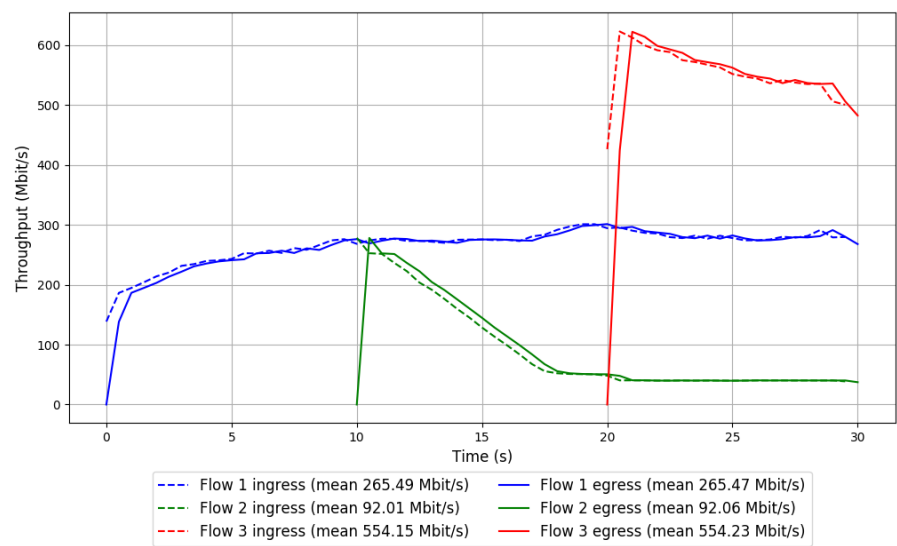
-- Flow 3:

Average throughput: 554.23 Mbit/s

95th percentile per-packet one-way delay: 1.721 ms

Loss rate: 0.18%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-06-06 04:15:47

End at: 2018-06-06 04:16:17

Local clock offset: 1.55 ms

Remote clock offset: 0.375 ms

Below is generated by plot.py at 2018-06-06 09:00:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 541.61 Mbit/s

95th percentile per-packet one-way delay: 1.687 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 261.81 Mbit/s

95th percentile per-packet one-way delay: 1.649 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 256.81 Mbit/s

95th percentile per-packet one-way delay: 1.680 ms

Loss rate: 0.11%

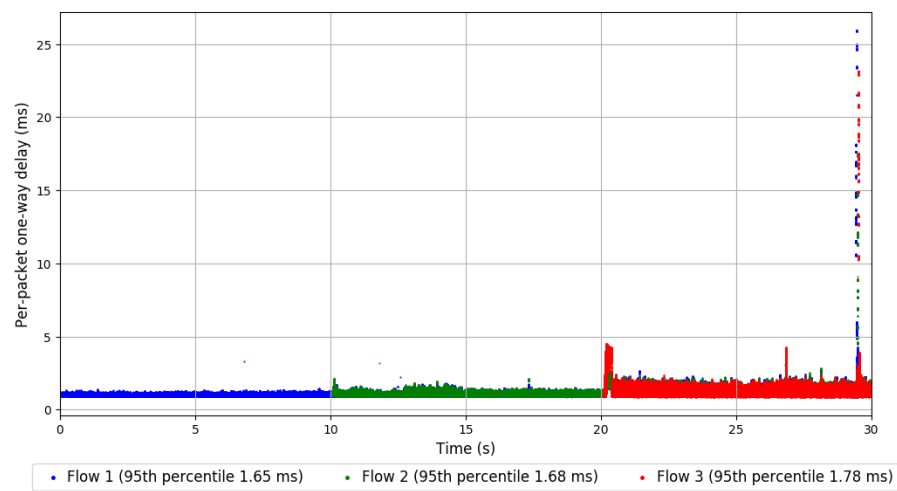
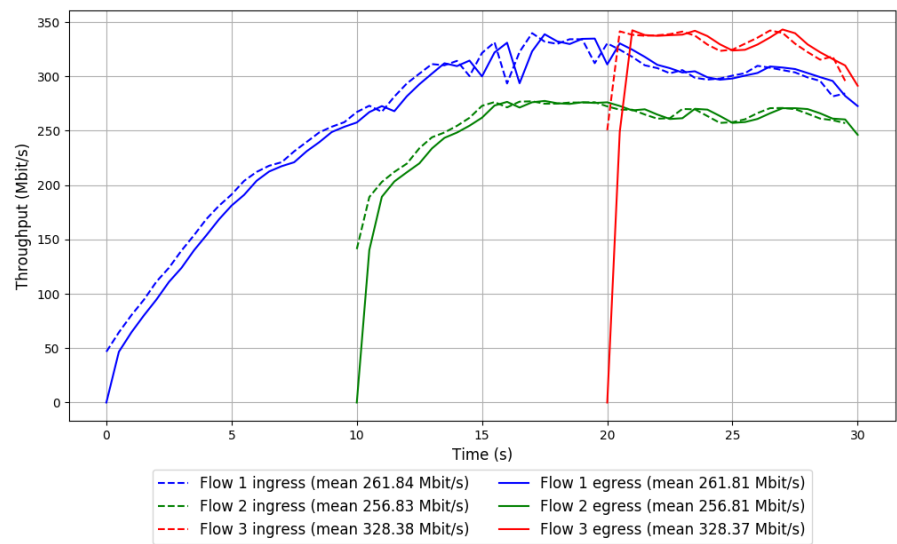
-- Flow 3:

Average throughput: 328.37 Mbit/s

95th percentile per-packet one-way delay: 1.777 ms

Loss rate: 0.20%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-06-06 04:41:04

End at: 2018-06-06 04:41:34

Local clock offset: 1.754 ms

Remote clock offset: 0.053 ms

Below is generated by plot.py at 2018-06-06 09:00:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 680.09 Mbit/s

95th percentile per-packet one-way delay: 1.757 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 370.18 Mbit/s

95th percentile per-packet one-way delay: 1.763 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 351.84 Mbit/s

95th percentile per-packet one-way delay: 1.733 ms

Loss rate: 0.08%

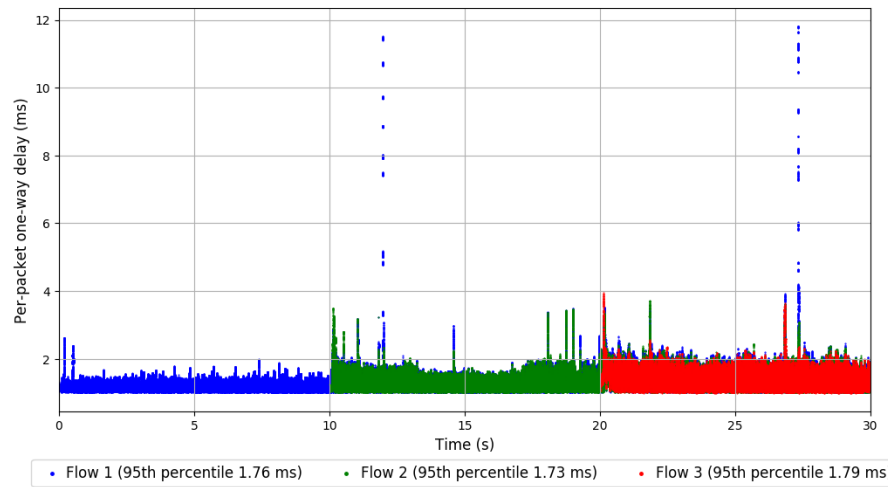
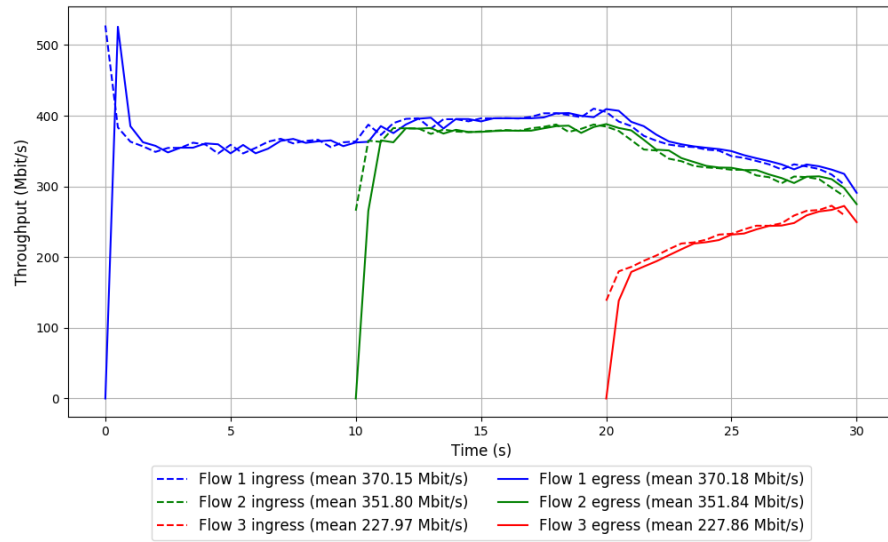
-- Flow 3:

Average throughput: 227.86 Mbit/s

95th percentile per-packet one-way delay: 1.793 ms

Loss rate: 0.24%

Run 5: Report of TCP Vegas — Data Link

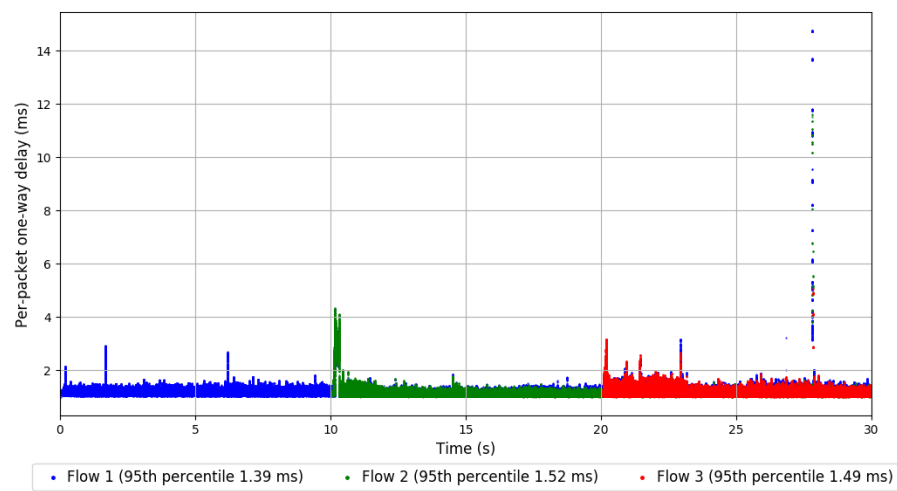
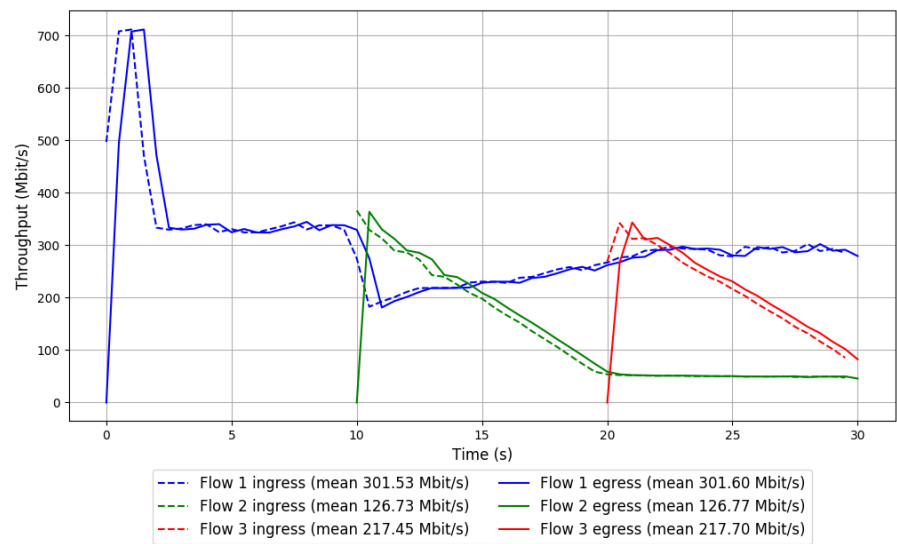


Run 6: Statistics of TCP Vegas

Start at: 2018-06-06 05:06:20
End at: 2018-06-06 05:06:50
Local clock offset: 2.236 ms
Remote clock offset: -0.493 ms

```
# Below is generated by plot.py at 2018-06-06 09:00:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 458.32 Mbit/s
95th percentile per-packet one-way delay: 1.415 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 301.60 Mbit/s
95th percentile per-packet one-way delay: 1.385 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 126.77 Mbit/s
95th percentile per-packet one-way delay: 1.524 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 217.70 Mbit/s
95th percentile per-packet one-way delay: 1.489 ms
Loss rate: 0.08%
```

Run 6: Report of TCP Vegas — Data Link

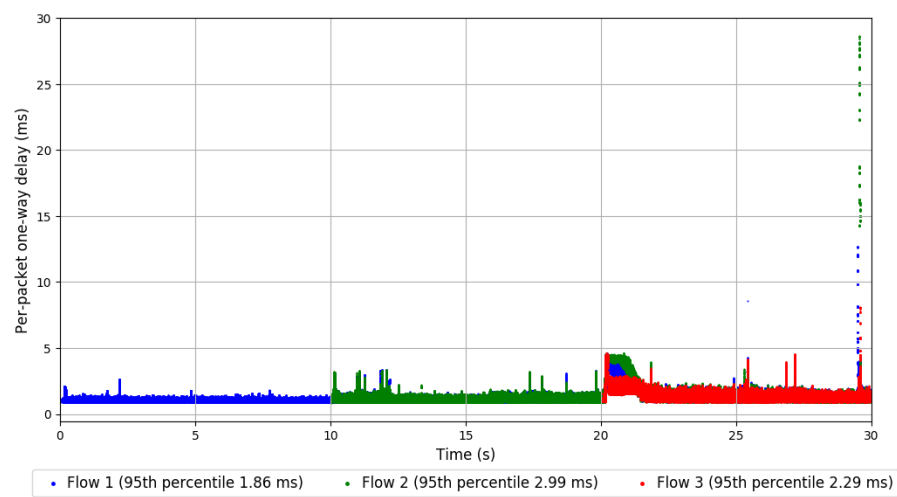
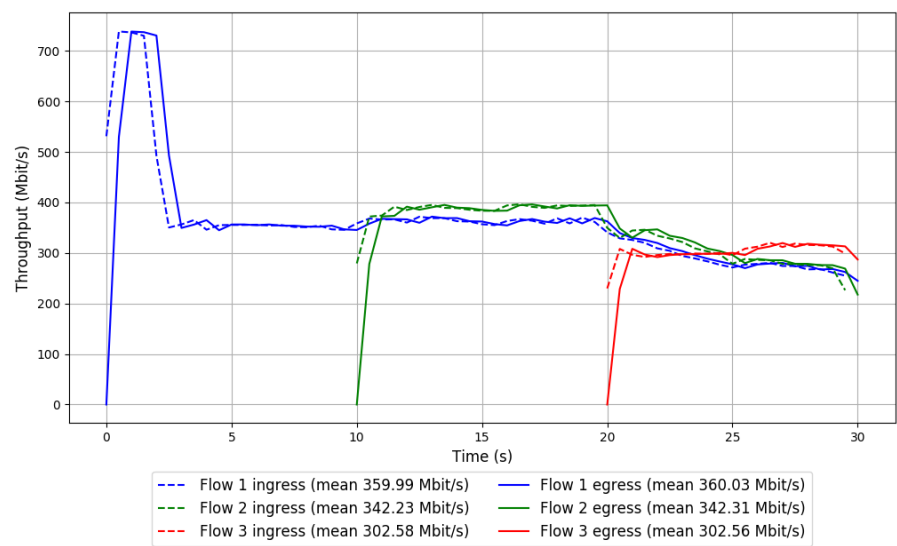


Run 7: Statistics of TCP Vegas

Start at: 2018-06-06 05:31:33
End at: 2018-06-06 05:32:03
Local clock offset: 1.979 ms
Remote clock offset: -0.477 ms

Below is generated by plot.py at 2018-06-06 09:06:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 688.36 Mbit/s
95th percentile per-packet one-way delay: 2.185 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 360.03 Mbit/s
95th percentile per-packet one-way delay: 1.864 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 342.31 Mbit/s
95th percentile per-packet one-way delay: 2.990 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 302.56 Mbit/s
95th percentile per-packet one-way delay: 2.287 ms
Loss rate: 0.20%

Run 7: Report of TCP Vegas — Data Link

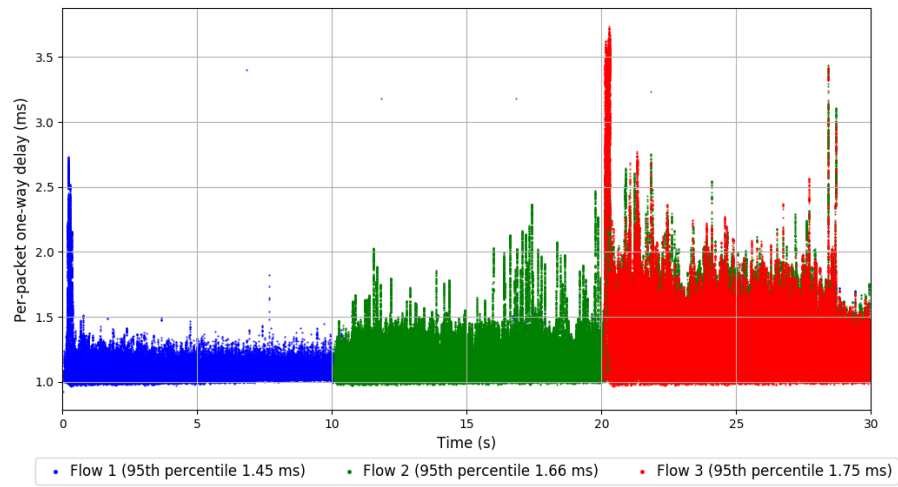
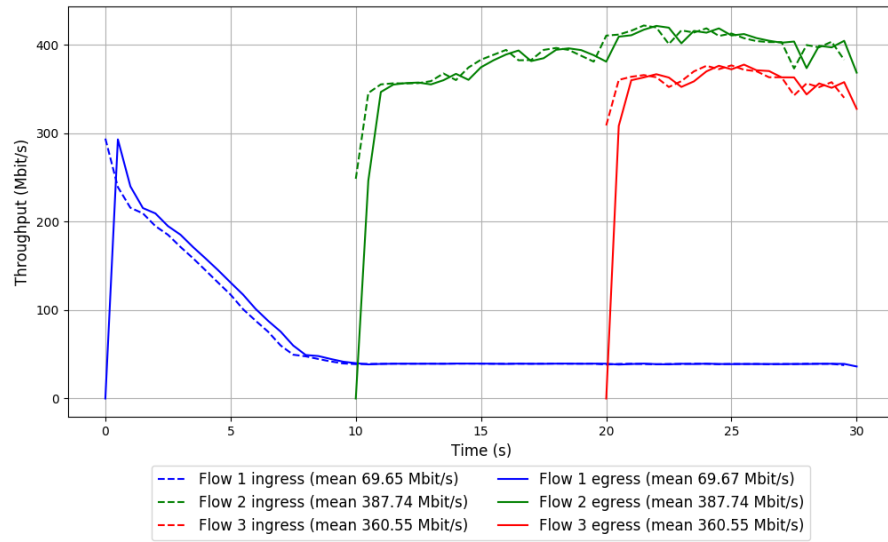


Run 8: Statistics of TCP Vegas

Start at: 2018-06-06 05:56:57
End at: 2018-06-06 05:57:27
Local clock offset: 1.581 ms
Remote clock offset: -0.484 ms

Below is generated by plot.py at 2018-06-06 09:06:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 447.53 Mbit/s
95th percentile per-packet one-way delay: 1.664 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 69.67 Mbit/s
95th percentile per-packet one-way delay: 1.448 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 387.74 Mbit/s
95th percentile per-packet one-way delay: 1.658 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 360.55 Mbit/s
95th percentile per-packet one-way delay: 1.752 ms
Loss rate: 0.18%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-06-06 06:22:14

End at: 2018-06-06 06:22:44

Local clock offset: 1.11 ms

Remote clock offset: 0.055 ms

Below is generated by plot.py at 2018-06-06 09:06:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 645.68 Mbit/s

95th percentile per-packet one-way delay: 3.792 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 331.05 Mbit/s

95th percentile per-packet one-way delay: 2.549 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 246.07 Mbit/s

95th percentile per-packet one-way delay: 2.406 ms

Loss rate: 0.08%

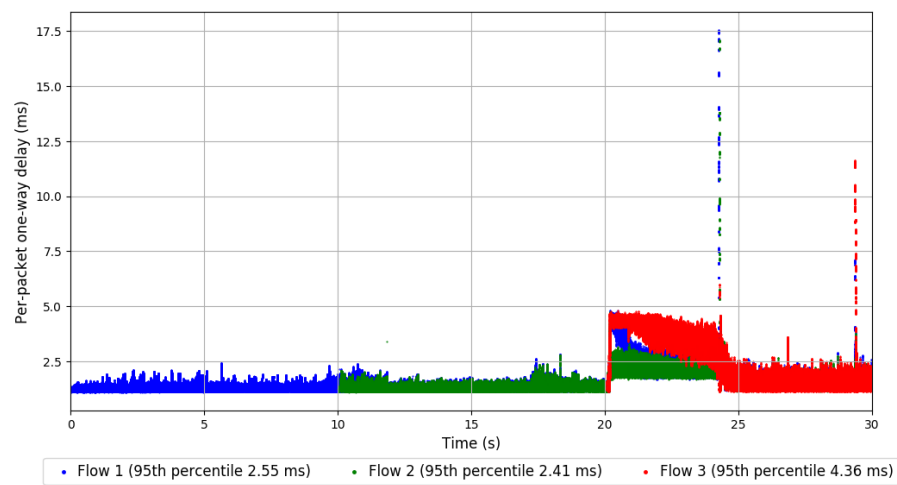
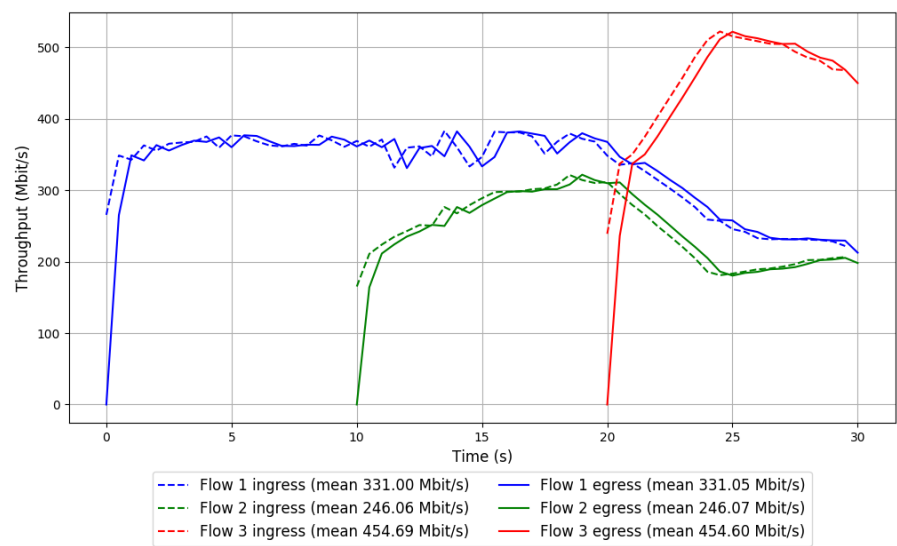
-- Flow 3:

Average throughput: 454.60 Mbit/s

95th percentile per-packet one-way delay: 4.364 ms

Loss rate: 0.22%

Run 9: Report of TCP Vegas — Data Link

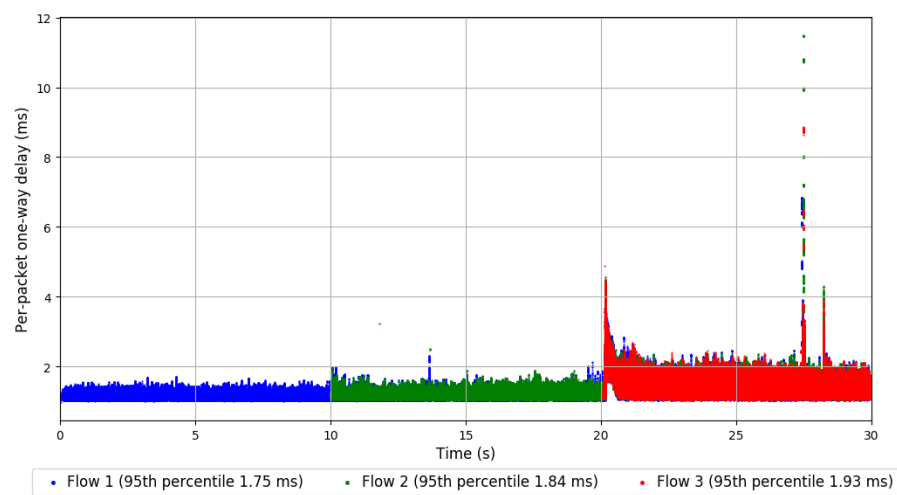
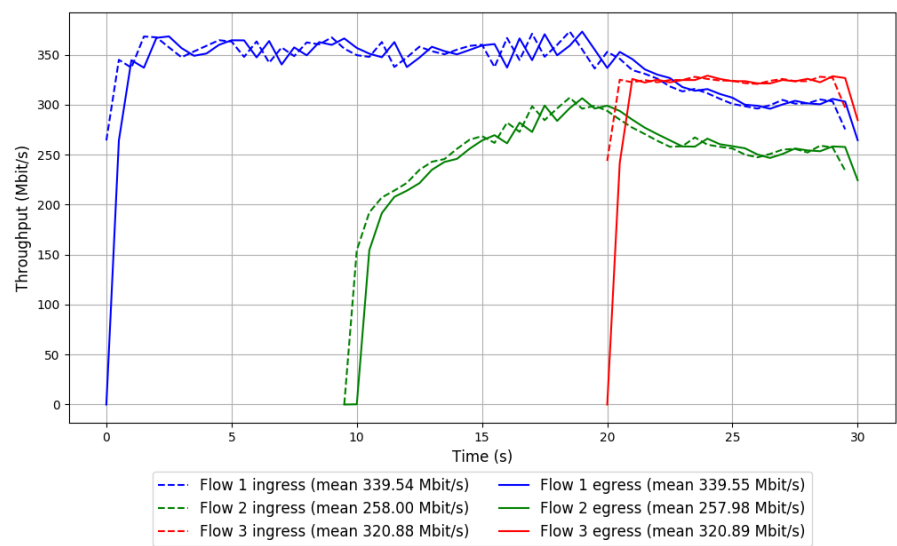


Run 10: Statistics of TCP Vegas

Start at: 2018-06-06 06:47:31
End at: 2018-06-06 06:48:01
Local clock offset: -0.183 ms
Remote clock offset: -0.067 ms

Below is generated by plot.py at 2018-06-06 09:06:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 617.87 Mbit/s
95th percentile per-packet one-way delay: 1.819 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 339.55 Mbit/s
95th percentile per-packet one-way delay: 1.748 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 257.98 Mbit/s
95th percentile per-packet one-way delay: 1.840 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 320.89 Mbit/s
95th percentile per-packet one-way delay: 1.934 ms
Loss rate: 0.21%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-06-06 03:04:48

End at: 2018-06-06 03:05:18

Local clock offset: 0.208 ms

Remote clock offset: 0.152 ms

Below is generated by plot.py at 2018-06-06 09:06:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 257.66 Mbit/s

95th percentile per-packet one-way delay: 3.101 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 141.82 Mbit/s

95th percentile per-packet one-way delay: 3.565 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 148.35 Mbit/s

95th percentile per-packet one-way delay: 2.085 ms

Loss rate: 0.17%

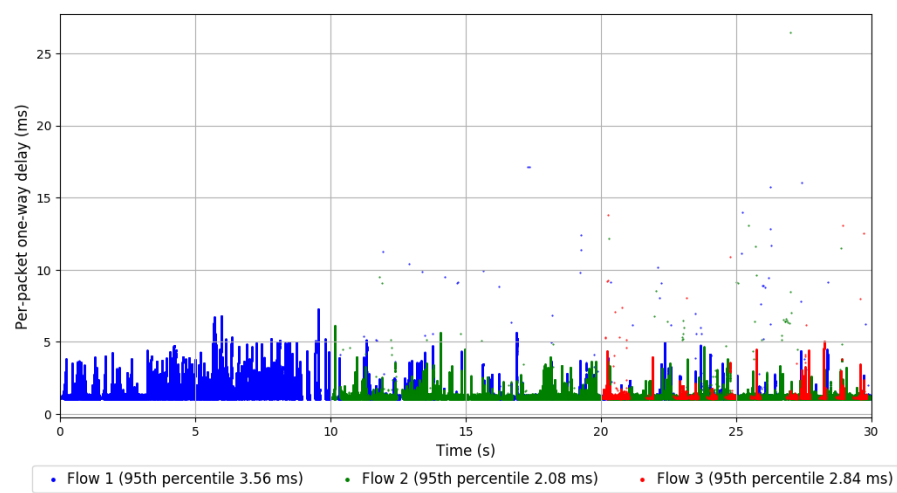
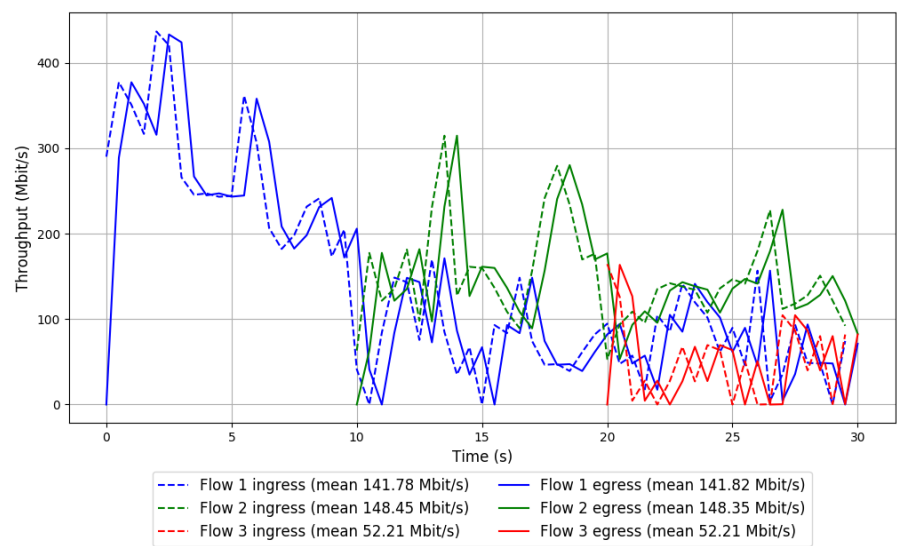
-- Flow 3:

Average throughput: 52.21 Mbit/s

95th percentile per-packet one-way delay: 2.836 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-06-06 03:30:07

End at: 2018-06-06 03:30:37

Local clock offset: 0.564 ms

Remote clock offset: 0.71 ms

Below is generated by plot.py at 2018-06-06 09:06:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 261.89 Mbit/s

95th percentile per-packet one-way delay: 5.636 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 129.30 Mbit/s

95th percentile per-packet one-way delay: 6.949 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 147.77 Mbit/s

95th percentile per-packet one-way delay: 1.662 ms

Loss rate: 0.10%

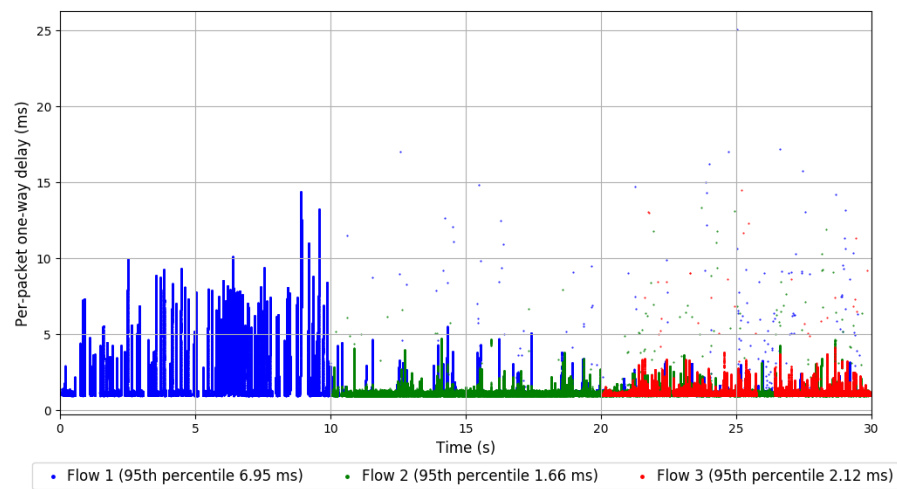
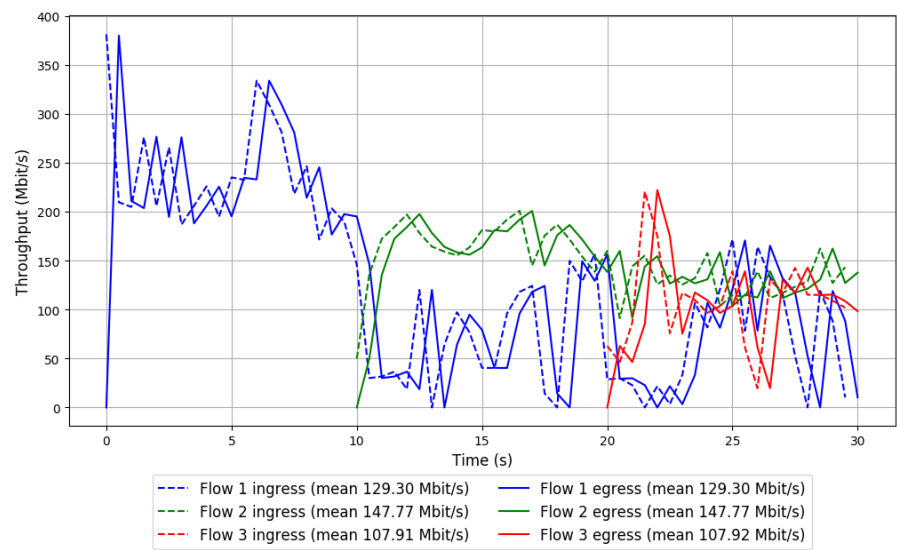
-- Flow 3:

Average throughput: 107.92 Mbit/s

95th percentile per-packet one-way delay: 2.124 ms

Loss rate: 0.18%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-06-06 03:55:14

End at: 2018-06-06 03:55:44

Local clock offset: 0.984 ms

Remote clock offset: 0.316 ms

Below is generated by plot.py at 2018-06-06 09:06:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 379.69 Mbit/s

95th percentile per-packet one-way delay: 2.599 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 224.09 Mbit/s

95th percentile per-packet one-way delay: 2.696 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 178.18 Mbit/s

95th percentile per-packet one-way delay: 2.574 ms

Loss rate: 0.10%

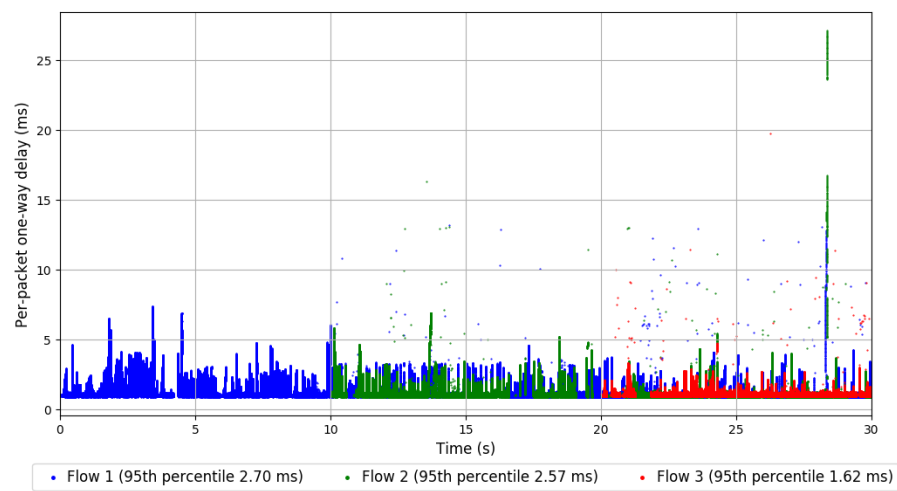
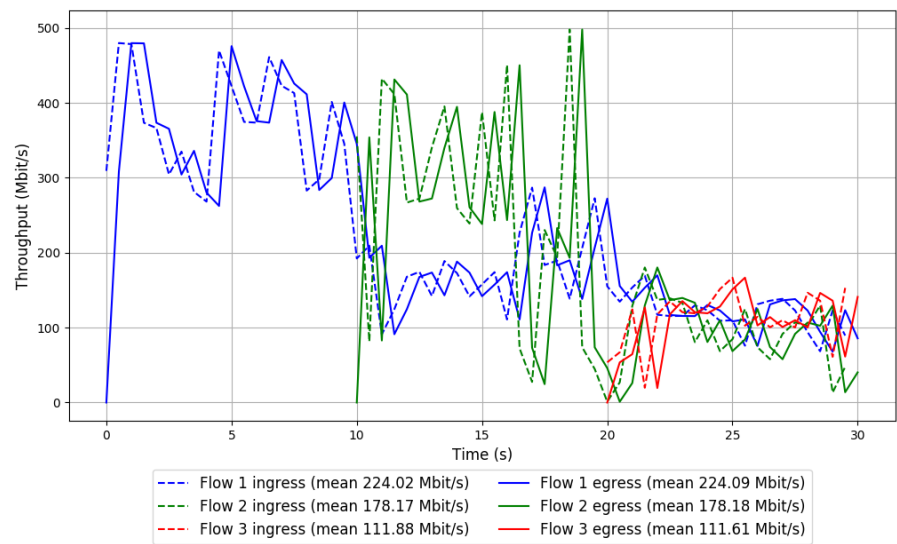
-- Flow 3:

Average throughput: 111.61 Mbit/s

95th percentile per-packet one-way delay: 1.620 ms

Loss rate: 0.54%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-06-06 04:20:34

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

Local clock offset: 1.618 ms

Remote clock offset: 0.171 ms

Below is generated by plot.py at 2018-06-06 09:06:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 359.87 Mbit/s

95th percentile per-packet one-way delay: 2.902 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 220.07 Mbit/s

95th percentile per-packet one-way delay: 3.191 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 157.82 Mbit/s

95th percentile per-packet one-way delay: 2.257 ms

Loss rate: 0.06%

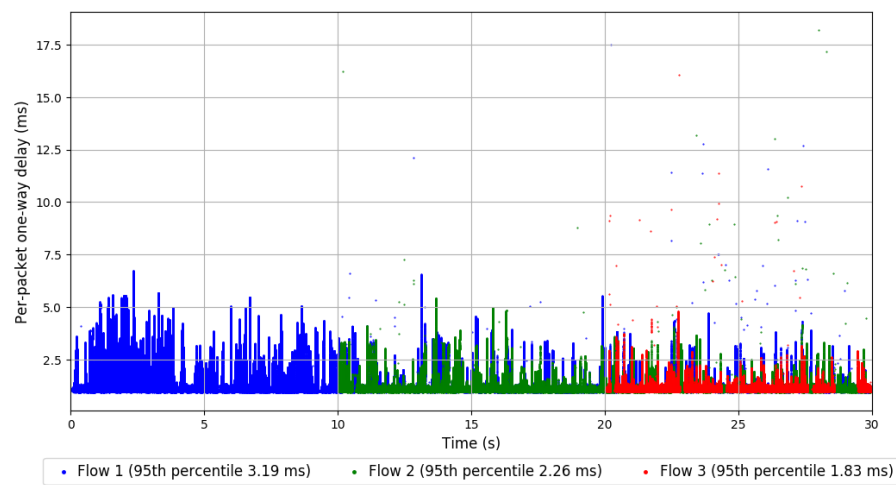
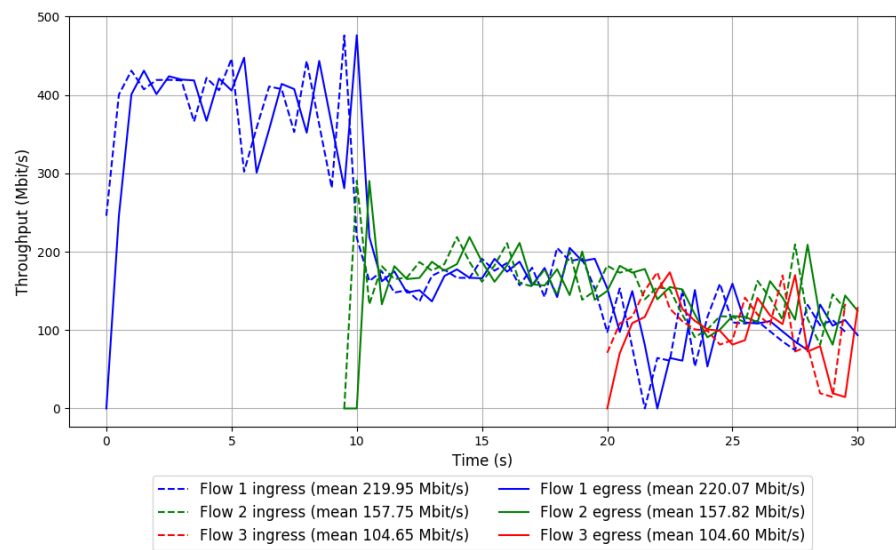
-- Flow 3:

Average throughput: 104.60 Mbit/s

95th percentile per-packet one-way delay: 1.833 ms

Loss rate: 0.25%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-06-06 04:45:55

End at: 2018-06-06 04:46:25

Local clock offset: 1.843 ms

Remote clock offset: 0.147 ms

Below is generated by plot.py at 2018-06-06 09:06:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 278.98 Mbit/s

95th percentile per-packet one-way delay: 6.662 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 158.11 Mbit/s

95th percentile per-packet one-way delay: 7.666 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 132.78 Mbit/s

95th percentile per-packet one-way delay: 2.064 ms

Loss rate: 0.08%

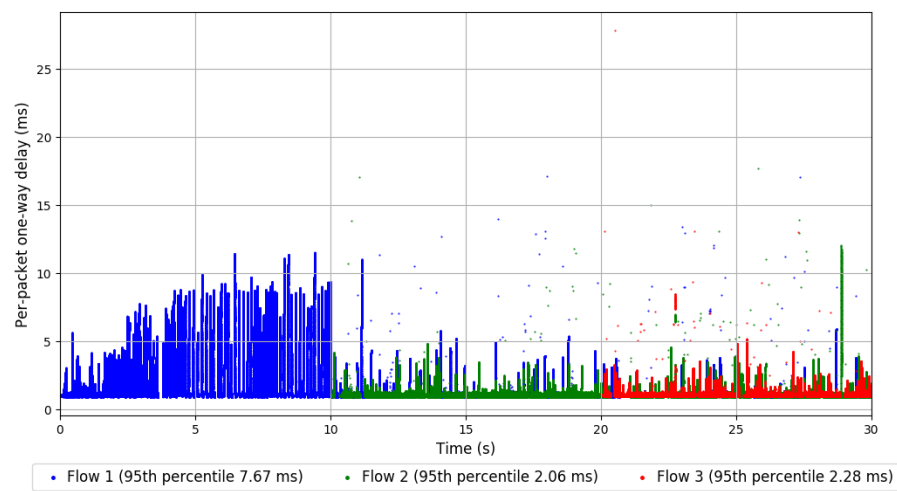
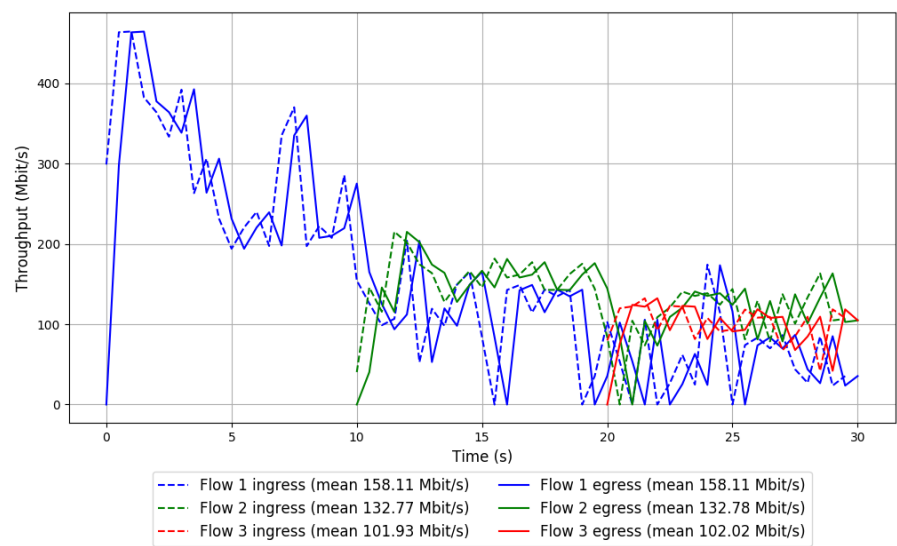
-- Flow 3:

Average throughput: 102.02 Mbit/s

95th percentile per-packet one-way delay: 2.277 ms

Loss rate: 0.14%

Run 5: Report of Verus — Data Link

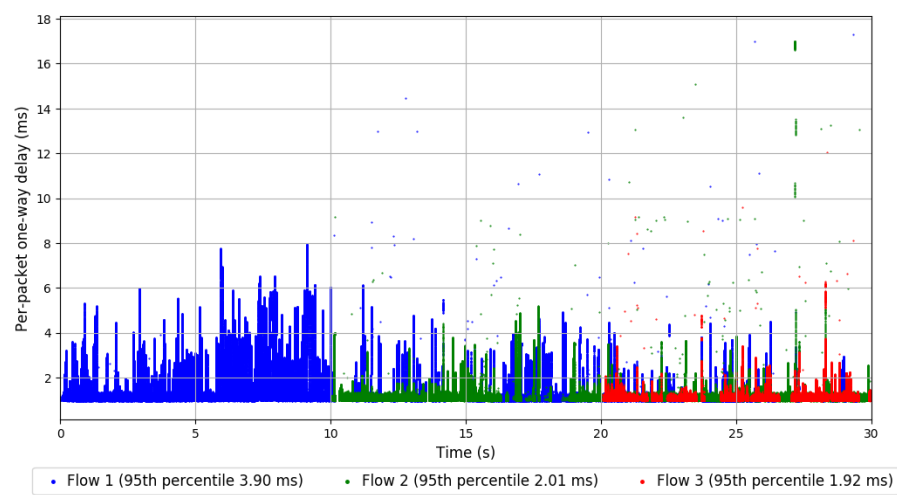
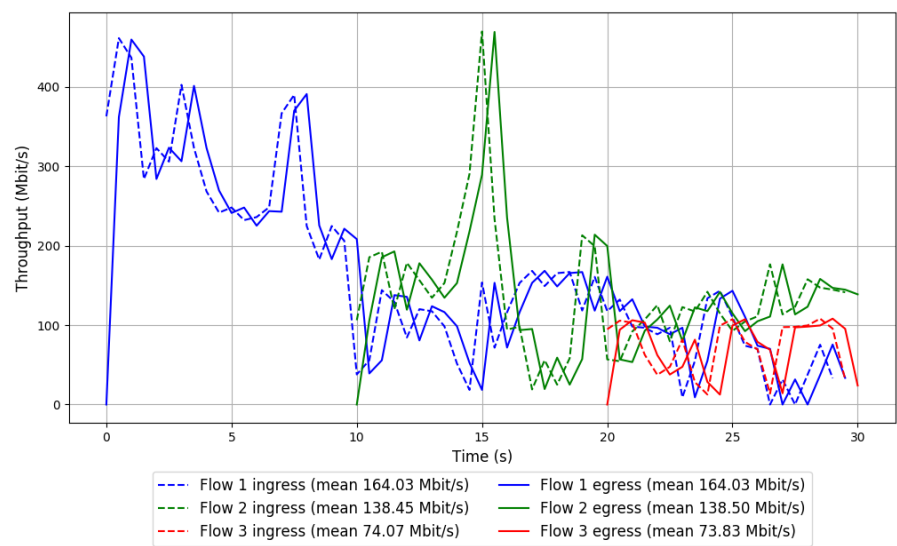


Run 6: Statistics of Verus

Start at: 2018-06-06 05:11:03
End at: 2018-06-06 05:11:33
Local clock offset: 2.299 ms
Remote clock offset: -0.499 ms

Below is generated by plot.py at 2018-06-06 09:06:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 277.78 Mbit/s
95th percentile per-packet one-way delay: 3.312 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 164.03 Mbit/s
95th percentile per-packet one-way delay: 3.898 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 138.50 Mbit/s
95th percentile per-packet one-way delay: 2.014 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 73.83 Mbit/s
95th percentile per-packet one-way delay: 1.920 ms
Loss rate: 0.53%

Run 6: Report of Verus — Data Link

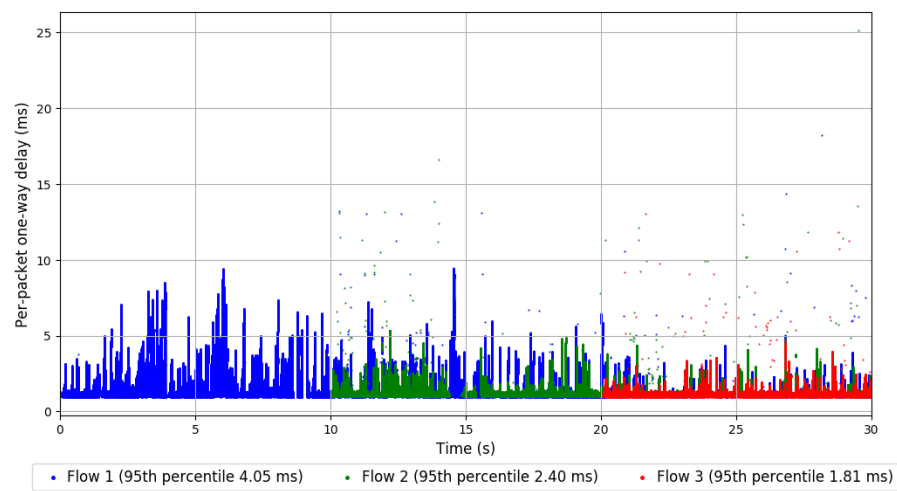
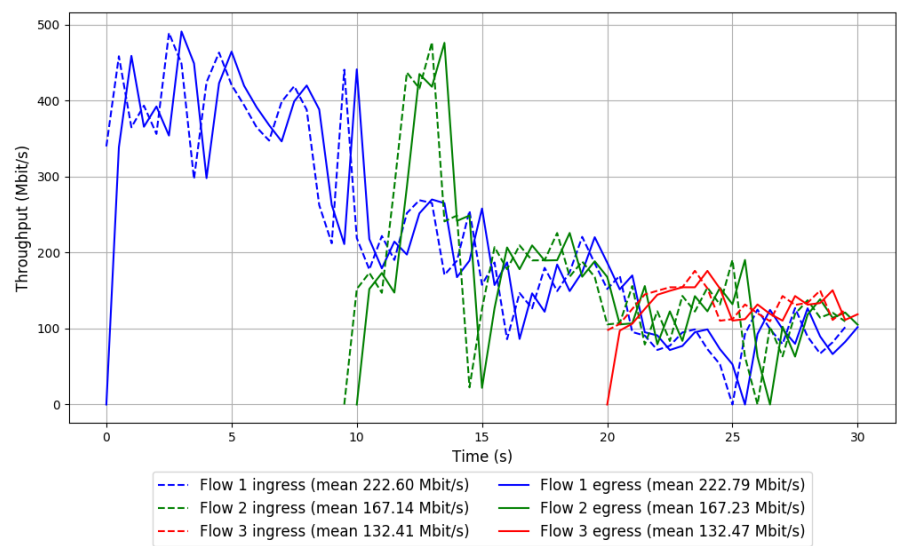


Run 7: Statistics of Verus

Start at: 2018-06-06 05:36:24
End at: 2018-06-06 05:36:54
Local clock offset: 2.019 ms
Remote clock offset: -0.448 ms

Below is generated by plot.py at 2018-06-06 09:08:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 378.09 Mbit/s
95th percentile per-packet one-way delay: 3.358 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 222.79 Mbit/s
95th percentile per-packet one-way delay: 4.052 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 167.23 Mbit/s
95th percentile per-packet one-way delay: 2.398 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 132.47 Mbit/s
95th percentile per-packet one-way delay: 1.813 ms
Loss rate: 0.22%

Run 7: Report of Verus — Data Link

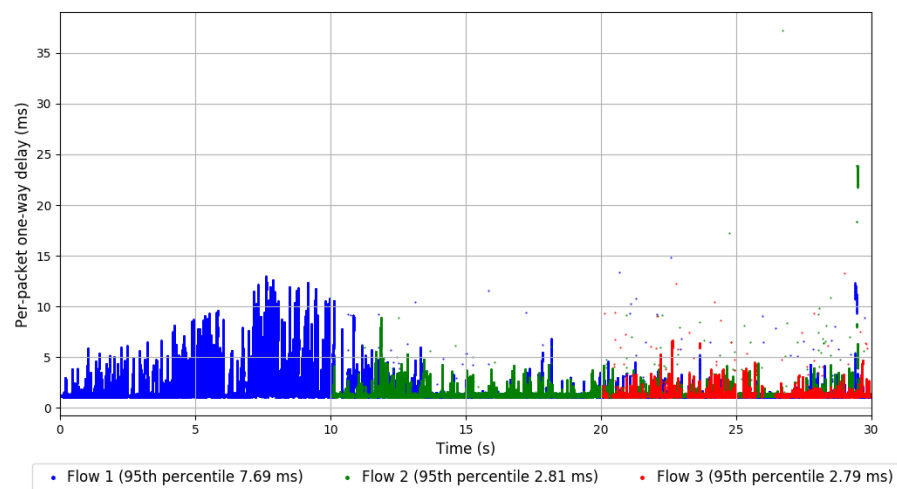
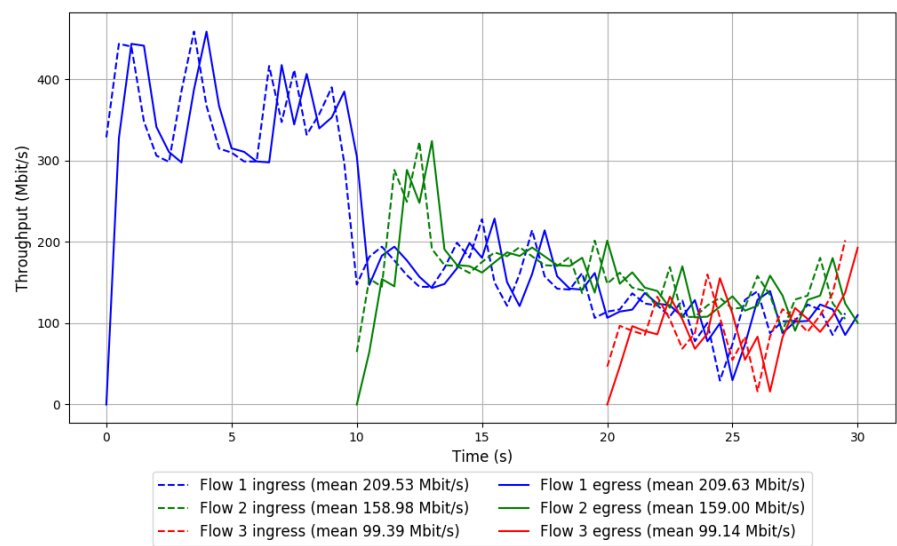


Run 8: Statistics of Verus

Start at: 2018-06-06 06:01:40
End at: 2018-06-06 06:02:10
Local clock offset: 1.541 ms
Remote clock offset: -0.265 ms

Below is generated by plot.py at 2018-06-06 09:08:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 348.36 Mbit/s
95th percentile per-packet one-way delay: 6.316 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 209.63 Mbit/s
95th percentile per-packet one-way delay: 7.693 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 159.00 Mbit/s
95th percentile per-packet one-way delay: 2.806 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 99.14 Mbit/s
95th percentile per-packet one-way delay: 2.791 ms
Loss rate: 0.46%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

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

End at: 2018-06-06 06:27:35

Local clock offset: 0.629 ms

Remote clock offset: 0.093 ms

Below is generated by plot.py at 2018-06-06 09:08:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.17 Mbit/s

95th percentile per-packet one-way delay: 3.299 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 163.96 Mbit/s

95th percentile per-packet one-way delay: 4.032 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 145.06 Mbit/s

95th percentile per-packet one-way delay: 1.995 ms

Loss rate: 0.07%

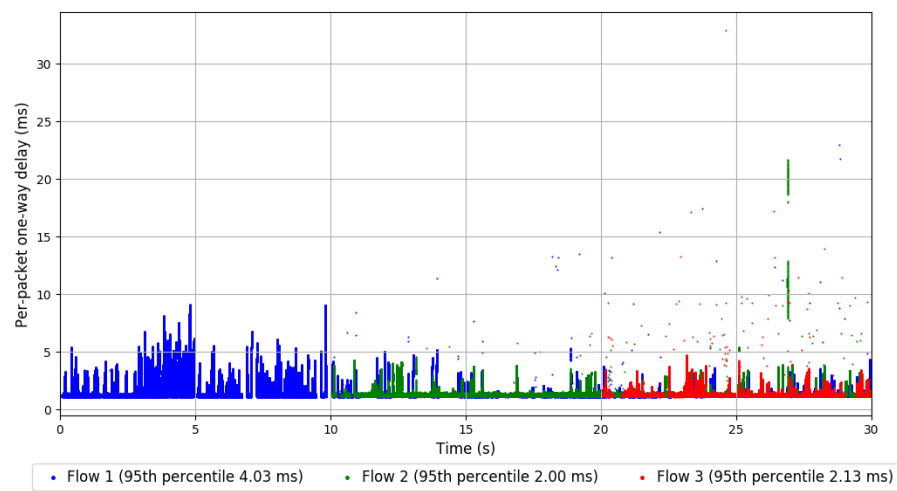
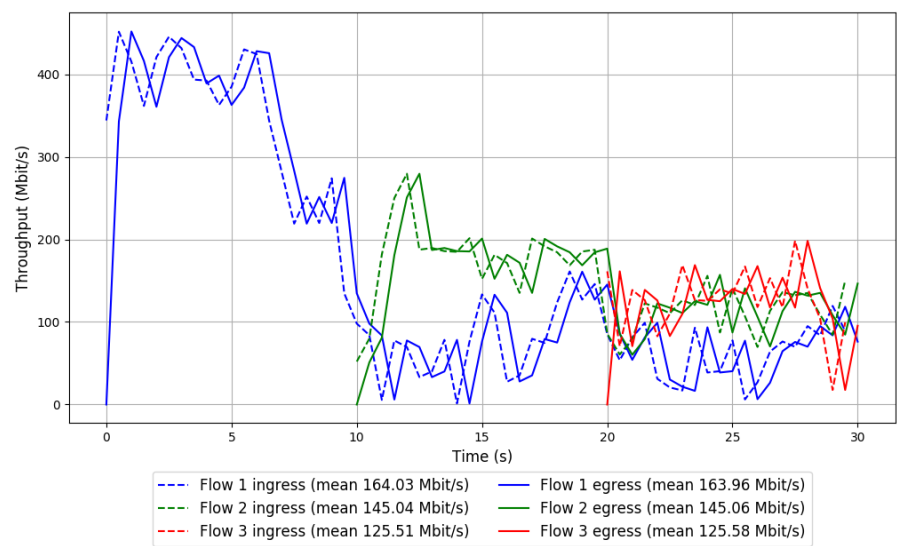
-- Flow 3:

Average throughput: 125.58 Mbit/s

95th percentile per-packet one-way delay: 2.130 ms

Loss rate: 0.17%

Run 9: Report of Verus — Data Link

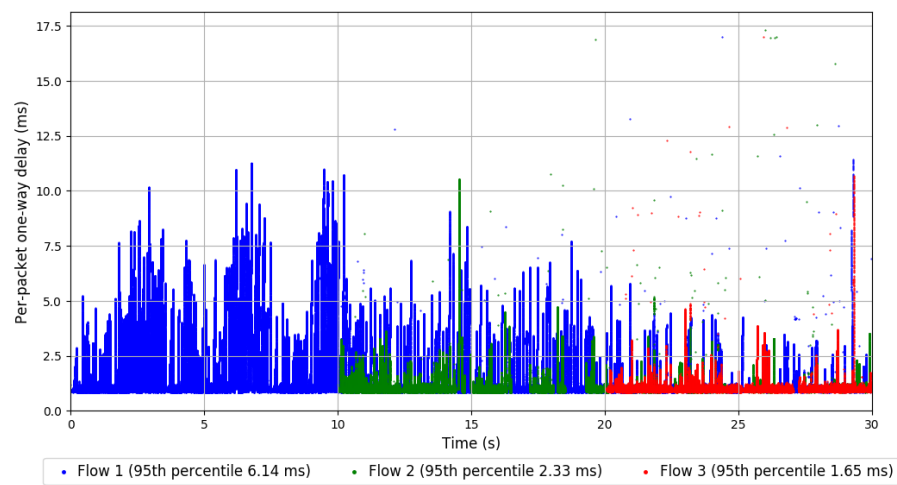
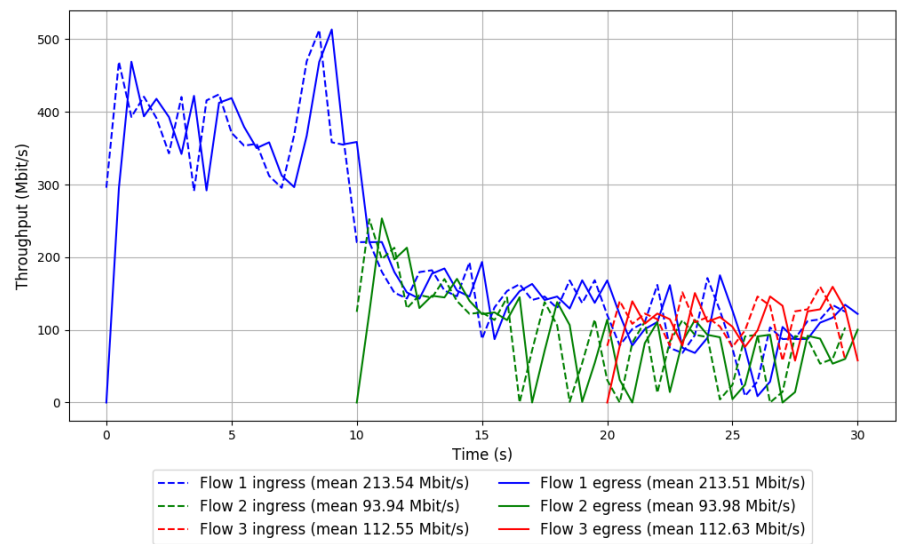


Run 10: Statistics of Verus

Start at: 2018-06-06 06:52:20
End at: 2018-06-06 06:52:50
Local clock offset: -0.391 ms
Remote clock offset: -0.014 ms

Below is generated by plot.py at 2018-06-06 09:09:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 313.42 Mbit/s
95th percentile per-packet one-way delay: 5.539 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 213.51 Mbit/s
95th percentile per-packet one-way delay: 6.145 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 93.98 Mbit/s
95th percentile per-packet one-way delay: 2.326 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 112.63 Mbit/s
95th percentile per-packet one-way delay: 1.646 ms
Loss rate: 0.06%

Run 10: Report of Verus — Data Link

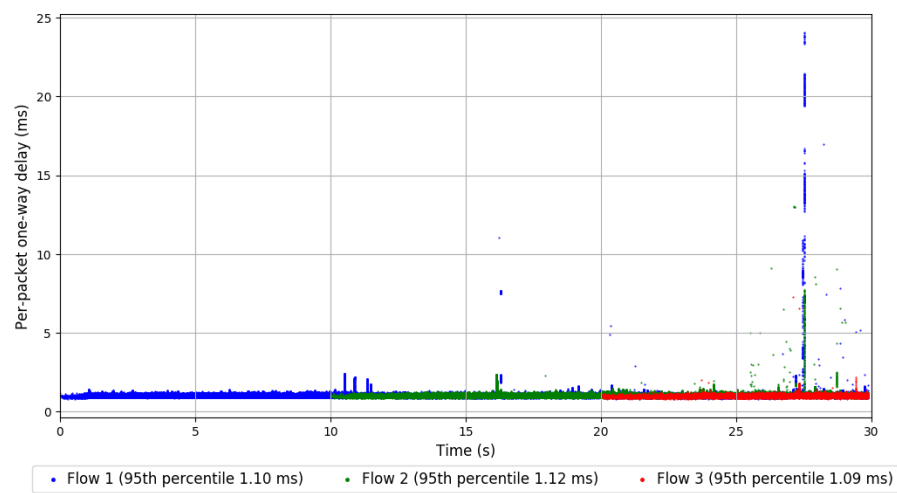
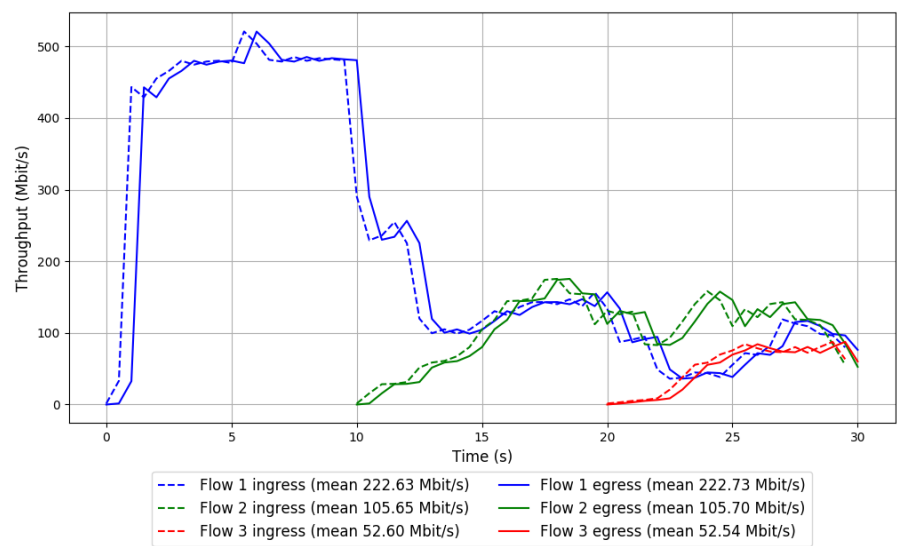


Run 1: Statistics of PCC-Vivace

Start at: 2018-06-06 02:58:24
End at: 2018-06-06 02:58:54
Local clock offset: -0.103 ms
Remote clock offset: -0.016 ms

Below is generated by plot.py at 2018-06-06 09:09:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 310.30 Mbit/s
95th percentile per-packet one-way delay: 1.104 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 222.73 Mbit/s
95th percentile per-packet one-way delay: 1.098 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 105.70 Mbit/s
95th percentile per-packet one-way delay: 1.123 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 52.54 Mbit/s
95th percentile per-packet one-way delay: 1.090 ms
Loss rate: 0.32%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-06-06 03:23:40

End at: 2018-06-06 03:24:10

Local clock offset: 0.526 ms

Remote clock offset: 0.551 ms

Below is generated by plot.py at 2018-06-06 09:10:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 360.61 Mbit/s

95th percentile per-packet one-way delay: 1.149 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 269.29 Mbit/s

95th percentile per-packet one-way delay: 1.147 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 94.16 Mbit/s

95th percentile per-packet one-way delay: 1.147 ms

Loss rate: 0.11%

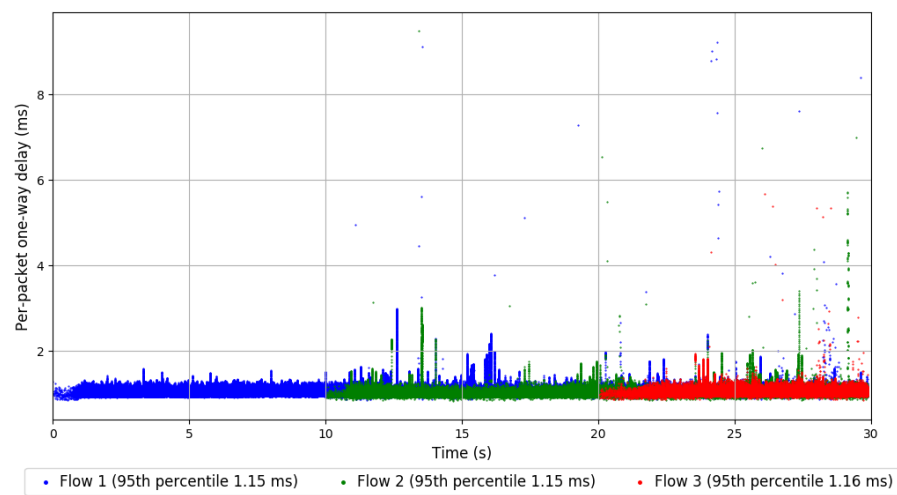
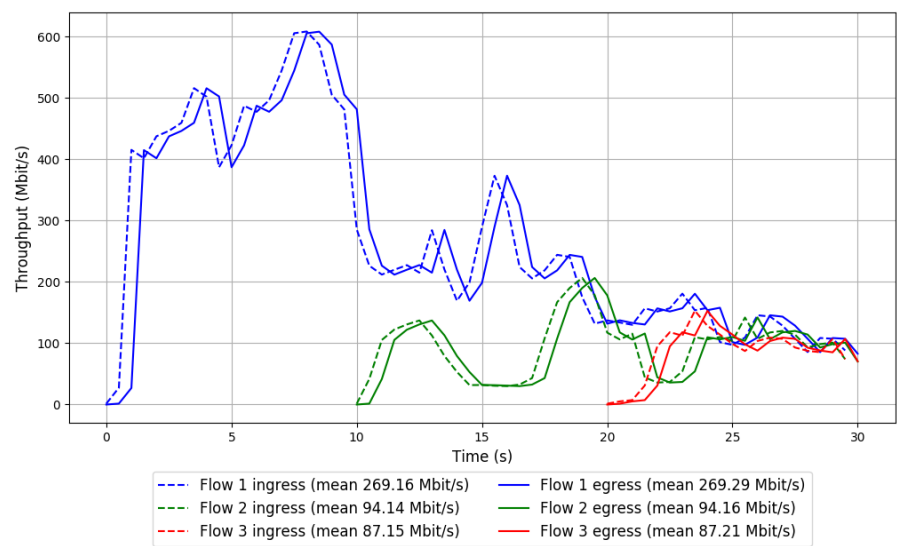
-- Flow 3:

Average throughput: 87.21 Mbit/s

95th percentile per-packet one-way delay: 1.164 ms

Loss rate: 0.21%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-06-06 03:48:54

End at: 2018-06-06 03:49:24

Local clock offset: 0.854 ms

Remote clock offset: 0.421 ms

Below is generated by plot.py at 2018-06-06 09:10:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 368.20 Mbit/s

95th percentile per-packet one-way delay: 1.189 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 239.33 Mbit/s

95th percentile per-packet one-way delay: 1.192 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 143.77 Mbit/s

95th percentile per-packet one-way delay: 1.168 ms

Loss rate: 0.08%

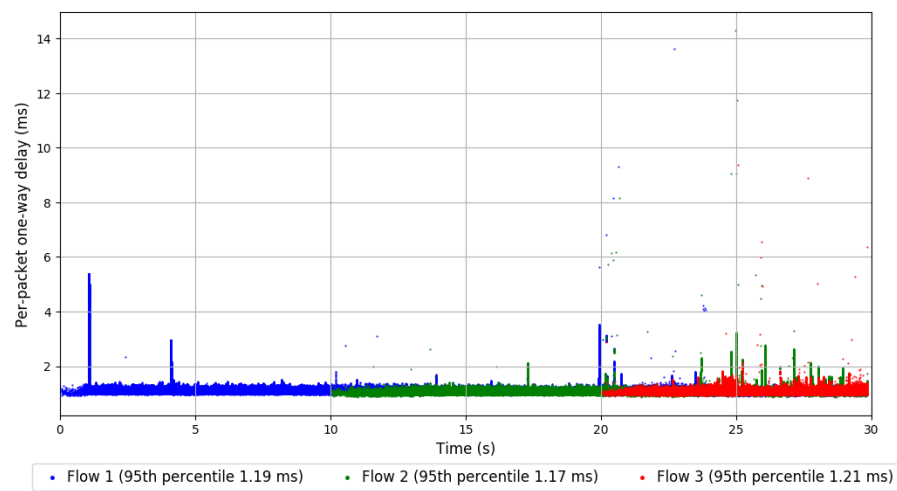
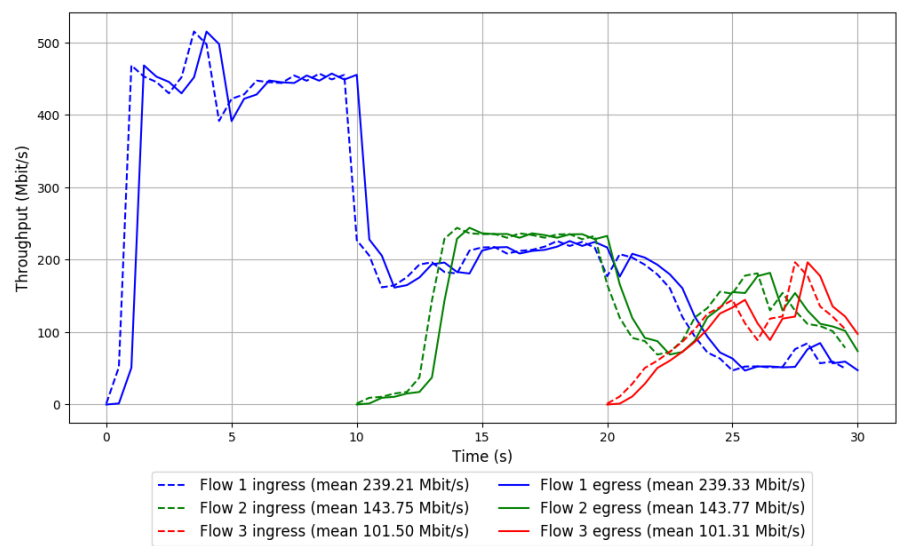
-- Flow 3:

Average throughput: 101.31 Mbit/s

95th percentile per-packet one-way delay: 1.212 ms

Loss rate: 0.35%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-06-06 04:14:13

End at: 2018-06-06 04:14:43

Local clock offset: 1.564 ms

Remote clock offset: 0.456 ms

Below is generated by plot.py at 2018-06-06 09:10:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 344.89 Mbit/s

95th percentile per-packet one-way delay: 1.179 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 249.54 Mbit/s

95th percentile per-packet one-way delay: 1.172 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 103.13 Mbit/s

95th percentile per-packet one-way delay: 1.198 ms

Loss rate: 0.16%

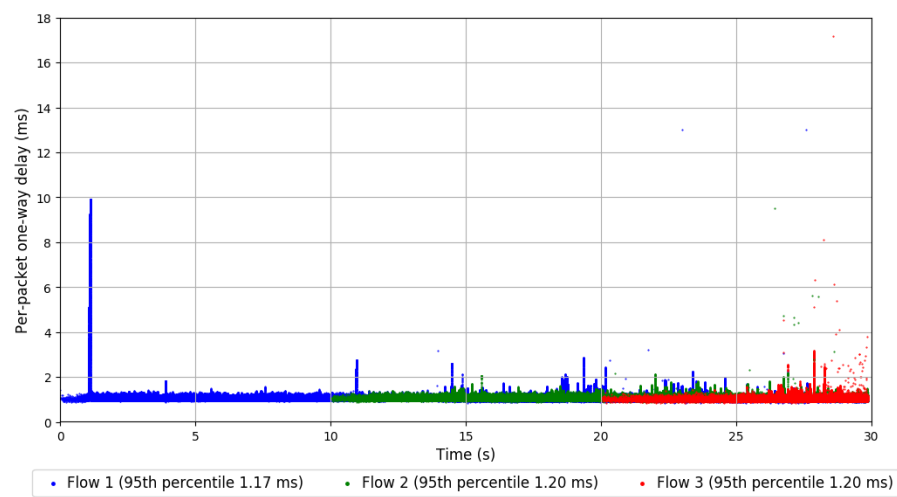
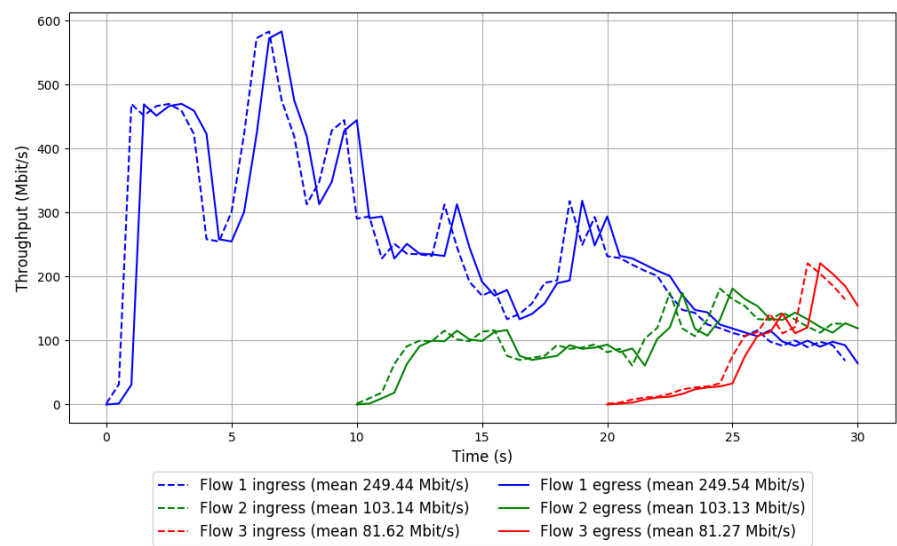
-- Flow 3:

Average throughput: 81.27 Mbit/s

95th percentile per-packet one-way delay: 1.200 ms

Loss rate: 0.69%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-06-06 04:39:30

End at: 2018-06-06 04:40:00

Local clock offset: 1.719 ms

Remote clock offset: 0.169 ms

Below is generated by plot.py at 2018-06-06 09:12:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 329.00 Mbit/s

95th percentile per-packet one-way delay: 1.139 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 220.92 Mbit/s

95th percentile per-packet one-way delay: 1.142 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 118.75 Mbit/s

95th percentile per-packet one-way delay: 1.133 ms

Loss rate: 0.07%

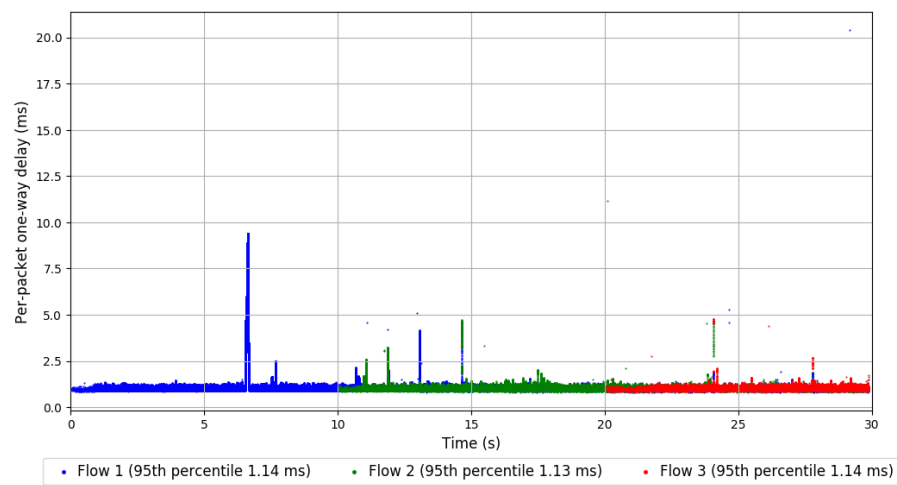
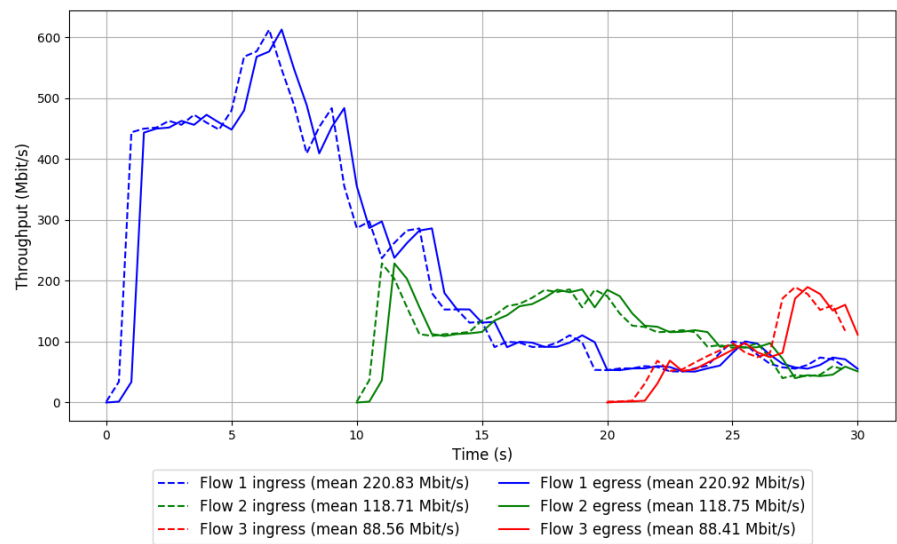
-- Flow 3:

Average throughput: 88.41 Mbit/s

95th percentile per-packet one-way delay: 1.136 ms

Loss rate: 0.37%

Run 5: Report of PCC-Vivace — Data Link

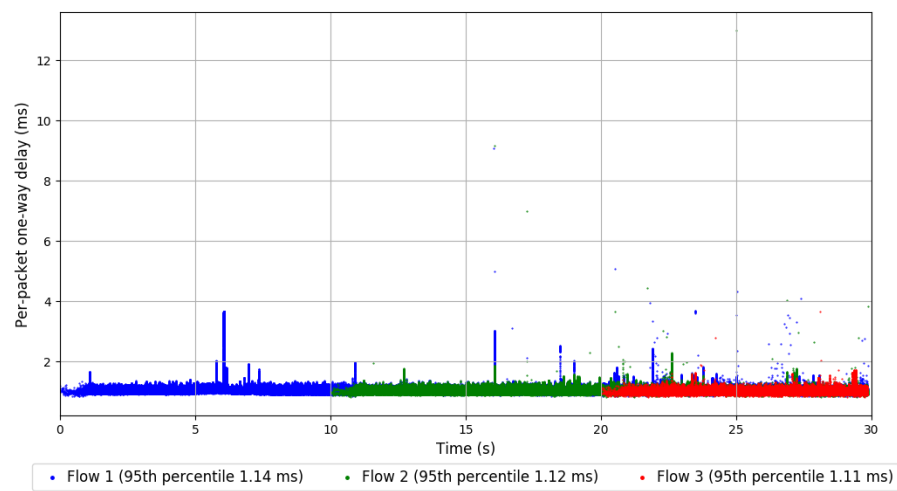
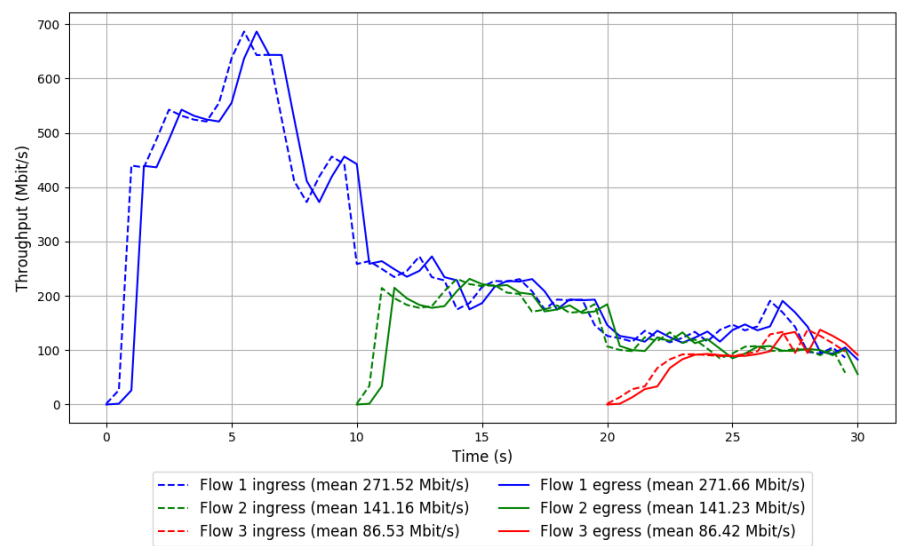


Run 6: Statistics of PCC-Vivace

Start at: 2018-06-06 05:04:43
End at: 2018-06-06 05:05:13
Local clock offset: 2.115 ms
Remote clock offset: -0.468 ms

Below is generated by plot.py at 2018-06-06 09:12:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 393.98 Mbit/s
95th percentile per-packet one-way delay: 1.136 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 271.66 Mbit/s
95th percentile per-packet one-way delay: 1.143 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 141.23 Mbit/s
95th percentile per-packet one-way delay: 1.119 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 86.42 Mbit/s
95th percentile per-packet one-way delay: 1.112 ms
Loss rate: 0.37%

Run 6: Report of PCC-Vivace — Data Link

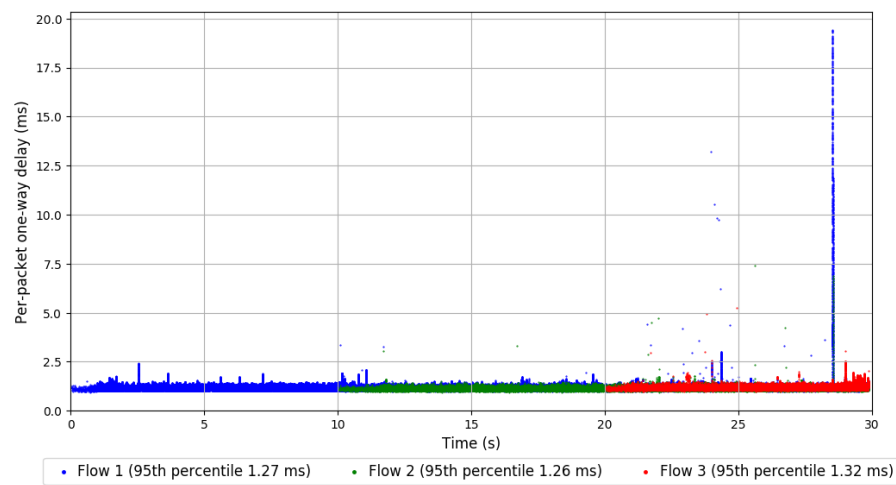
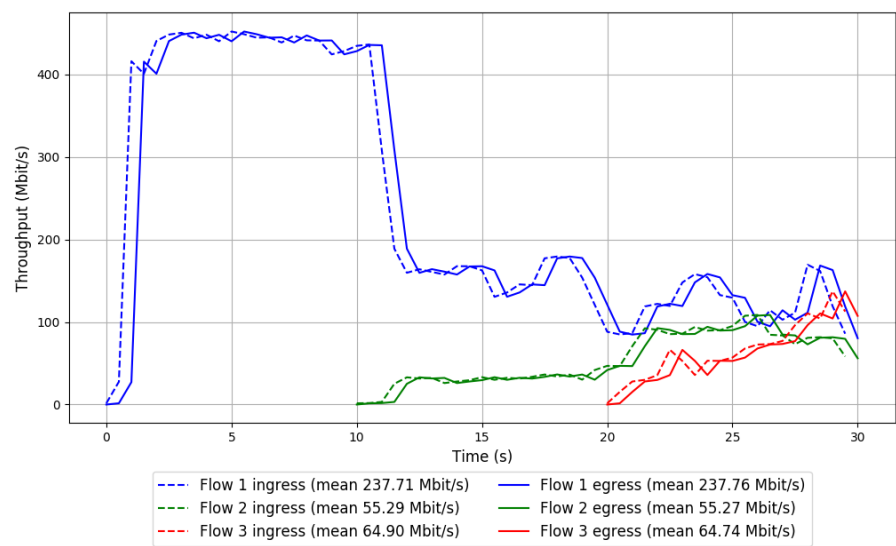


Run 7: Statistics of PCC-Vivace

Start at: 2018-06-06 05:30:02
End at: 2018-06-06 05:30:32
Local clock offset: 2.106 ms
Remote clock offset: -0.543 ms

Below is generated by plot.py at 2018-06-06 09:12:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 295.84 Mbit/s
95th percentile per-packet one-way delay: 1.271 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 237.76 Mbit/s
95th percentile per-packet one-way delay: 1.267 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 55.27 Mbit/s
95th percentile per-packet one-way delay: 1.265 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 64.74 Mbit/s
95th percentile per-packet one-way delay: 1.319 ms
Loss rate: 0.44%

Run 7: Report of PCC-Vivace — Data Link

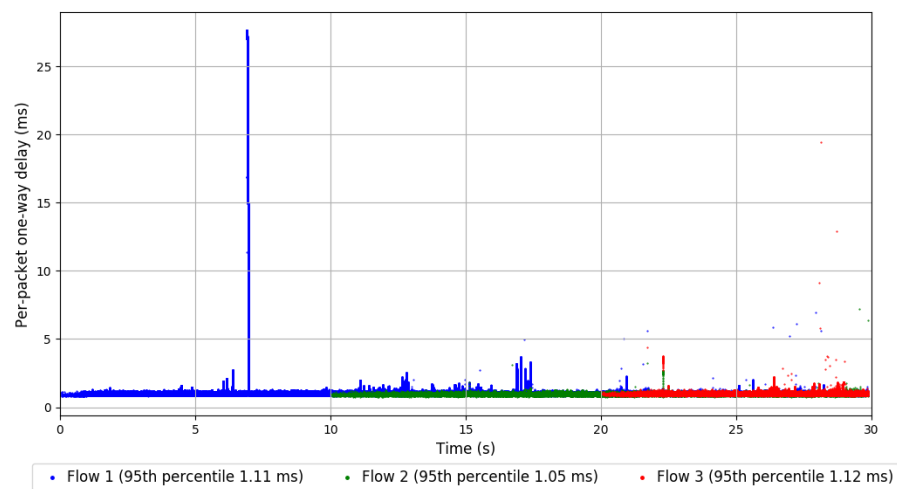
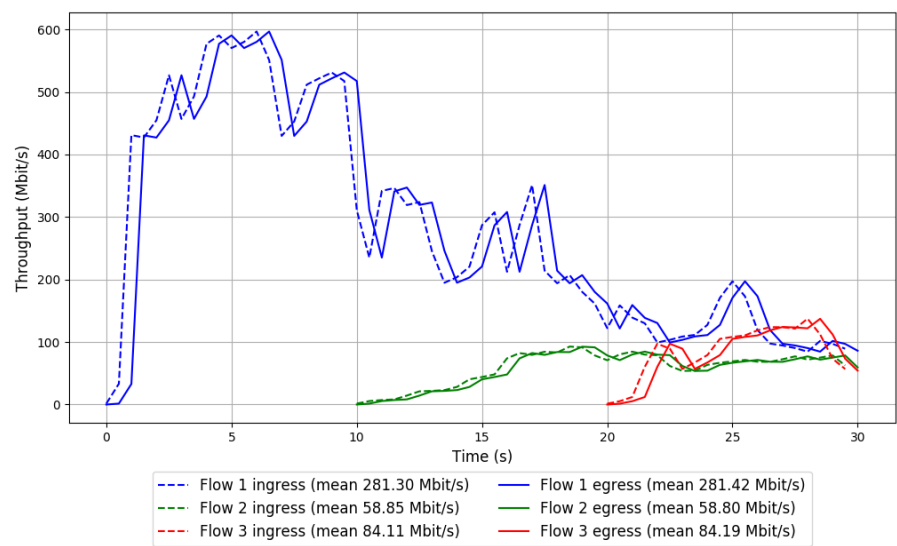


Run 8: Statistics of PCC-Vivace

Start at: 2018-06-06 05:55:22
End at: 2018-06-06 05:55:52
Local clock offset: 1.638 ms
Remote clock offset: -0.414 ms

Below is generated by plot.py at 2018-06-06 09:13:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 348.21 Mbit/s
95th percentile per-packet one-way delay: 1.108 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 281.42 Mbit/s
95th percentile per-packet one-way delay: 1.115 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 58.80 Mbit/s
95th percentile per-packet one-way delay: 1.050 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 84.19 Mbit/s
95th percentile per-packet one-way delay: 1.117 ms
Loss rate: 0.17%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-06-06 06:20:39

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

Local clock offset: 1.332 ms

Remote clock offset: 0.045 ms

Below is generated by plot.py at 2018-06-06 09:13:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 345.12 Mbit/s

95th percentile per-packet one-way delay: 1.409 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 240.29 Mbit/s

95th percentile per-packet one-way delay: 1.425 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 108.68 Mbit/s

95th percentile per-packet one-way delay: 1.360 ms

Loss rate: 0.05%

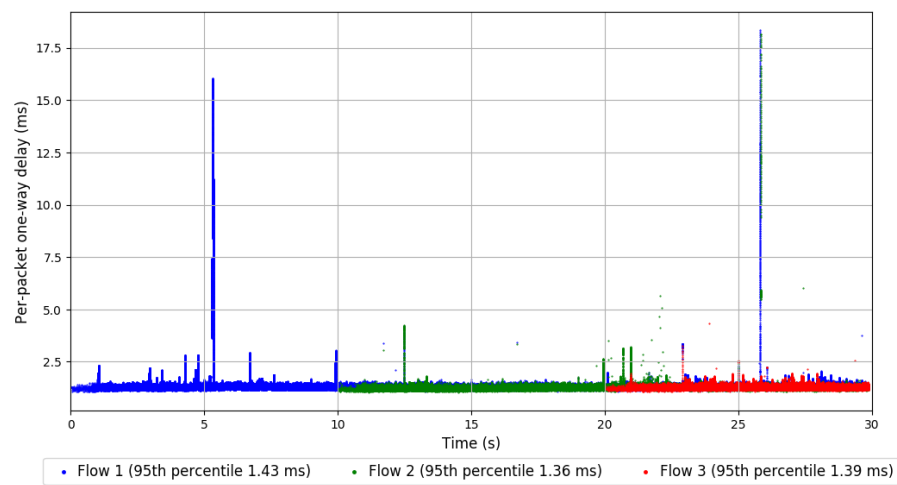
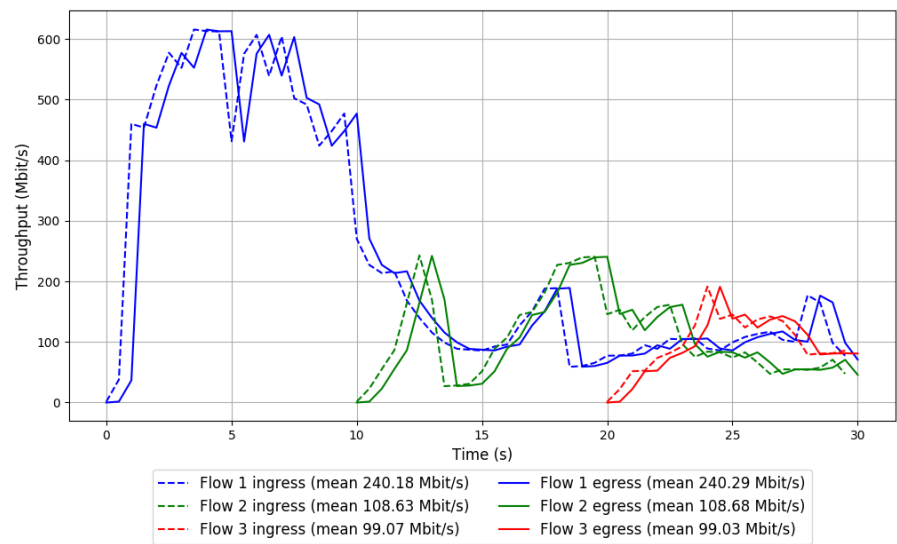
-- Flow 3:

Average throughput: 99.03 Mbit/s

95th percentile per-packet one-way delay: 1.390 ms

Loss rate: 0.26%

Run 9: Report of PCC-Vivace — Data Link

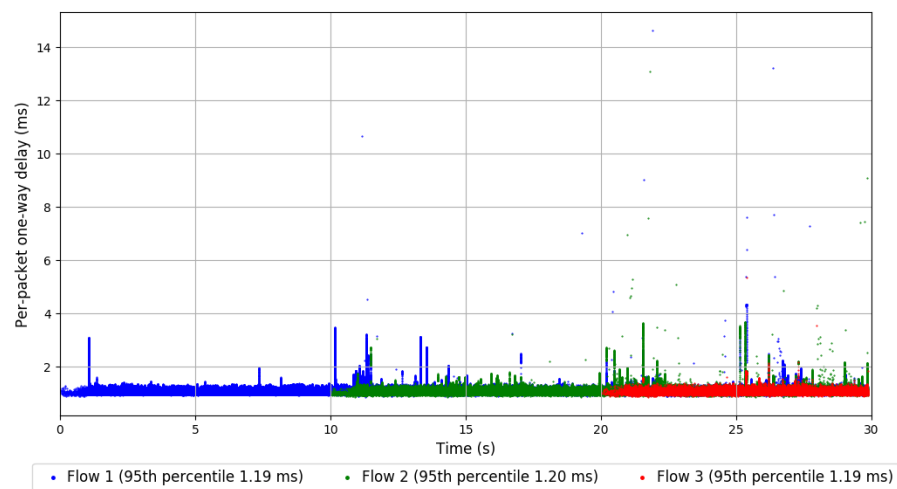
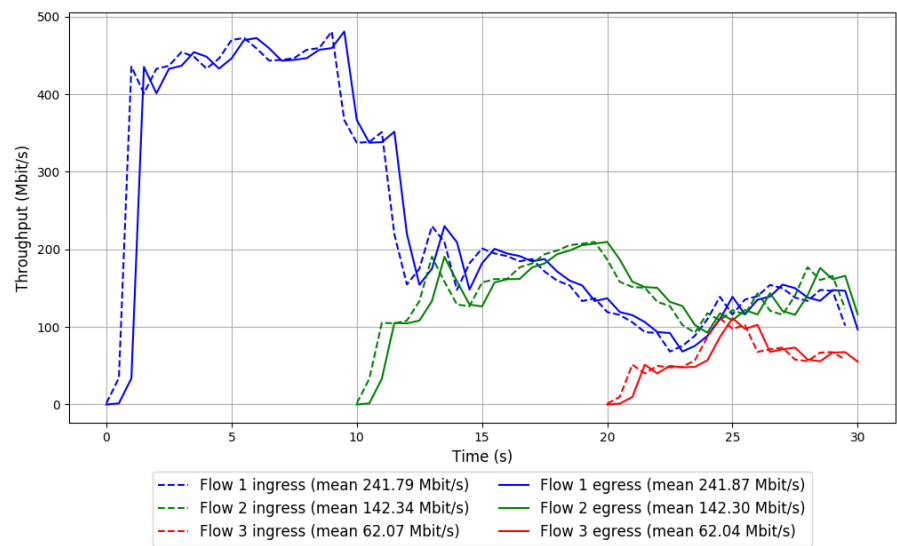


Run 10: Statistics of PCC-Vivace

Start at: 2018-06-06 06:45:57
End at: 2018-06-06 06:46:27
Local clock offset: -0.236 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2018-06-06 09:13:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 356.89 Mbit/s
95th percentile per-packet one-way delay: 1.192 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 241.87 Mbit/s
95th percentile per-packet one-way delay: 1.188 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 142.30 Mbit/s
95th percentile per-packet one-way delay: 1.201 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 62.04 Mbit/s
95th percentile per-packet one-way delay: 1.192 ms
Loss rate: 0.24%

Run 10: Report of PCC-Vivace — Data Link

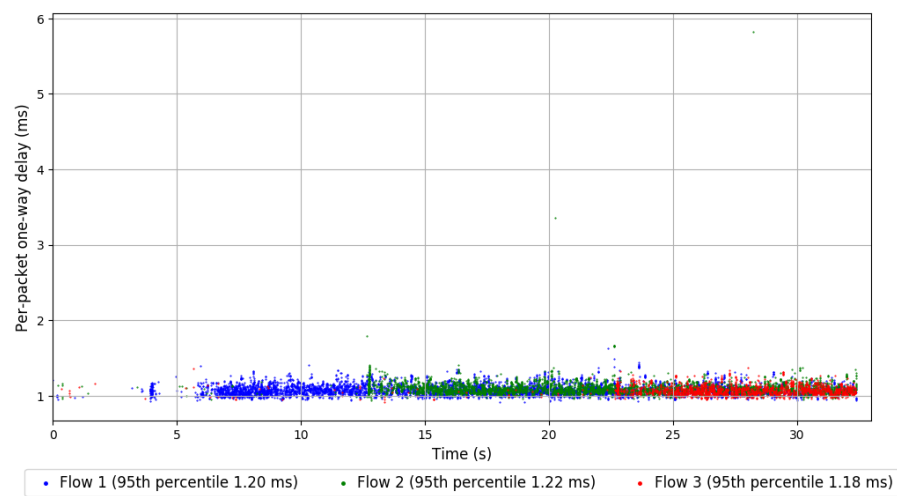
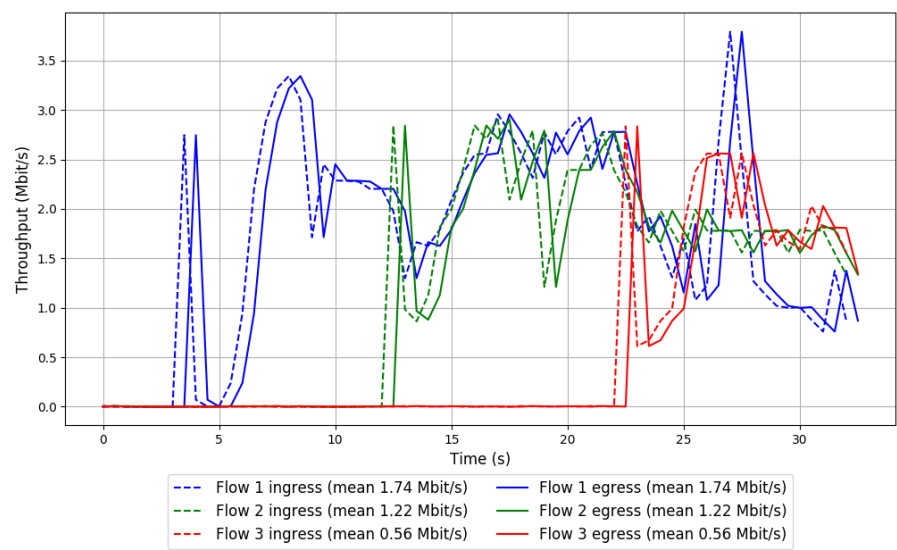


Run 1: Statistics of WebRTC media

Start at: 2018-06-06 02:57:06
End at: 2018-06-06 02:57:36
Local clock offset: -0.054 ms
Remote clock offset: -0.043 ms

Below is generated by plot.py at 2018-06-06 09:13:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.51 Mbit/s
95th percentile per-packet one-way delay: 1.203 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 1.74 Mbit/s
95th percentile per-packet one-way delay: 1.203 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 1.216 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 1.179 ms
Loss rate: 0.58%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-06-06 03:22:22

End at: 2018-06-06 03:22:52

Local clock offset: 0.434 ms

Remote clock offset: 0.436 ms

Below is generated by plot.py at 2018-06-06 09:13:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.40 Mbit/s

95th percentile per-packet one-way delay: 1.146 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 1.68 Mbit/s

95th percentile per-packet one-way delay: 1.151 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 1.140 ms

Loss rate: 0.07%

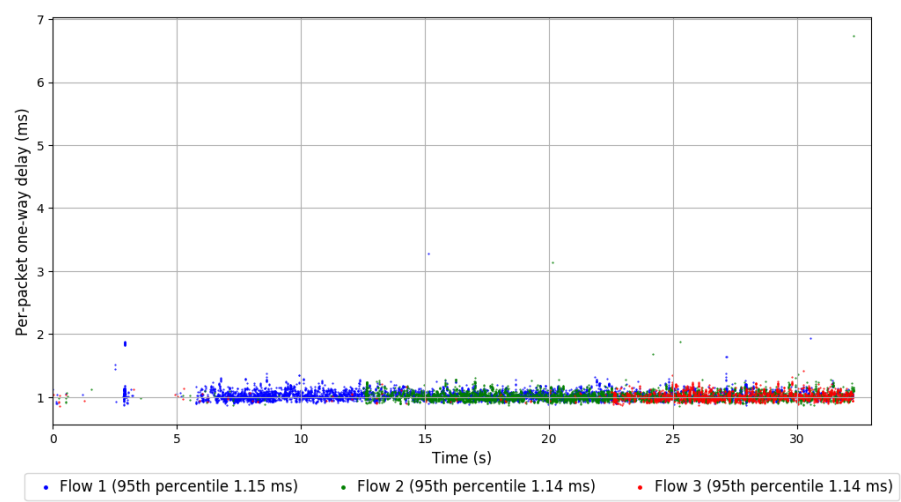
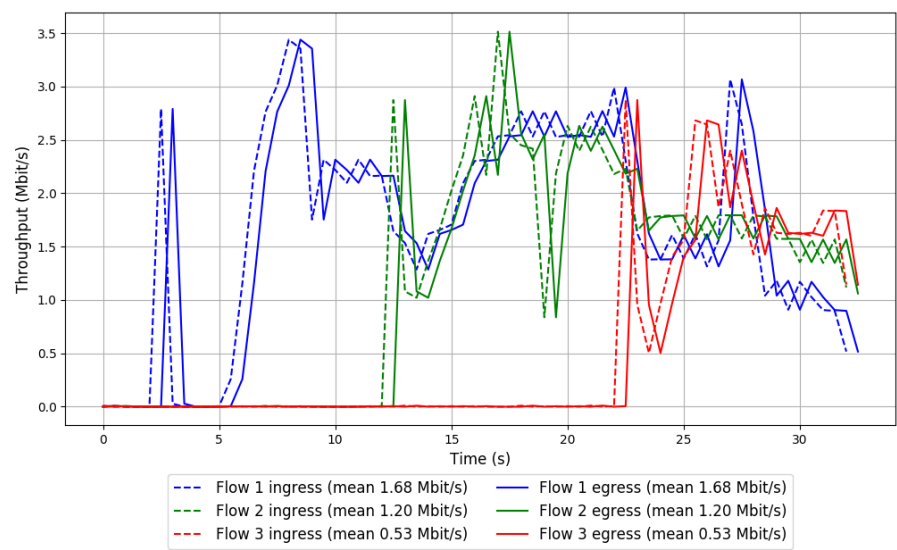
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 1.144 ms

Loss rate: 0.01%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-06-06 03:47:36

End at: 2018-06-06 03:48:06

Local clock offset: 0.846 ms

Remote clock offset: 0.449 ms

Below is generated by plot.py at 2018-06-06 09:13:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.15 Mbit/s

95th percentile per-packet one-way delay: 1.224 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 1.68 Mbit/s

95th percentile per-packet one-way delay: 1.217 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 1.228 ms

Loss rate: 0.00%

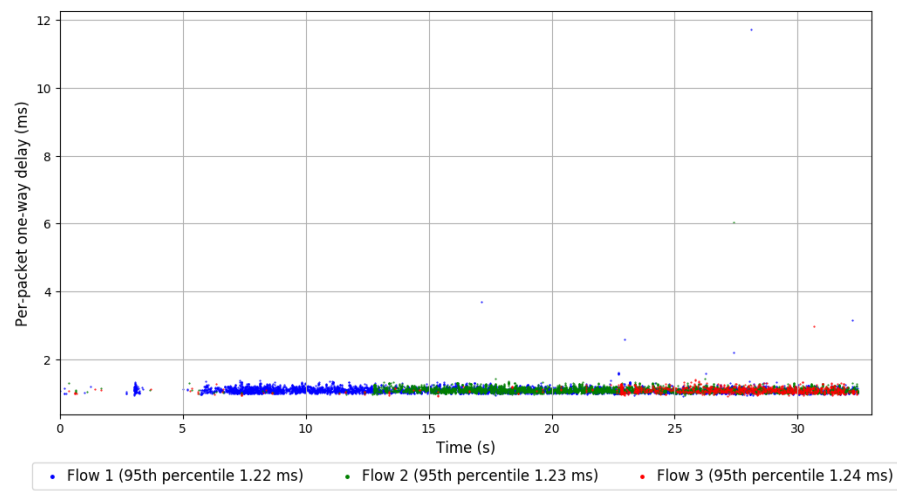
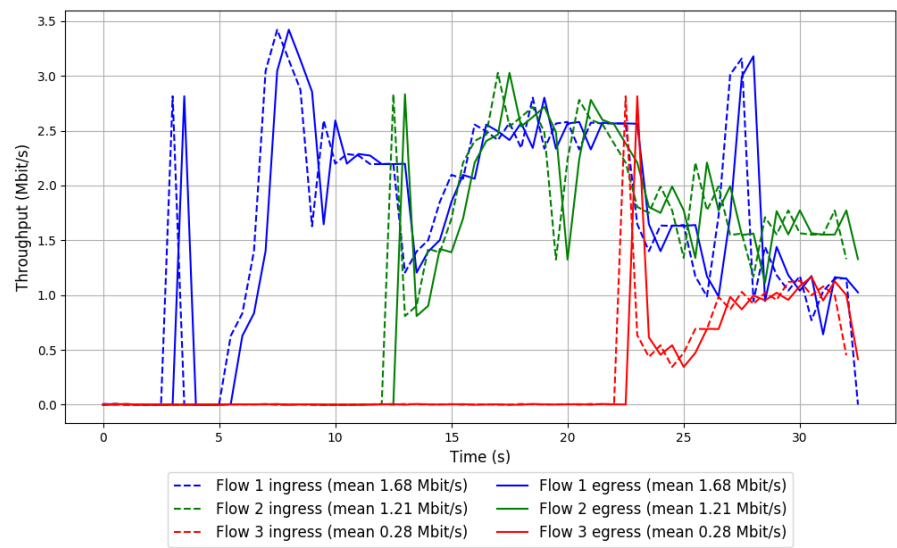
-- Flow 3:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 1.242 ms

Loss rate: 0.19%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-06-06 04:12:54

End at: 2018-06-06 04:13:24

Local clock offset: 1.458 ms

Remote clock offset: 0.451 ms

Below is generated by plot.py at 2018-06-06 09:13:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.44 Mbit/s

95th percentile per-packet one-way delay: 1.123 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 1.72 Mbit/s

95th percentile per-packet one-way delay: 1.123 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 1.124 ms

Loss rate: 0.00%

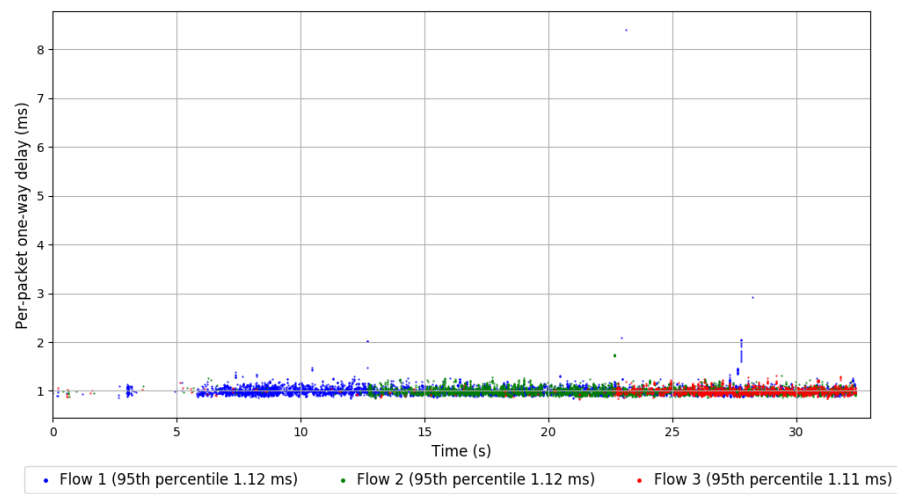
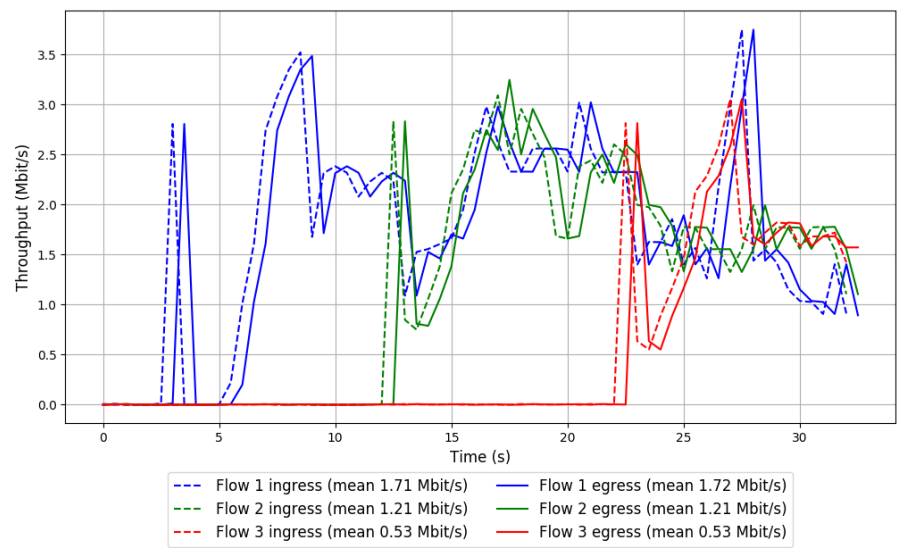
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 1.115 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-06-06 04:38:12

End at: 2018-06-06 04:38:42

Local clock offset: 1.711 ms

Remote clock offset: 0.098 ms

Below is generated by plot.py at 2018-06-06 09:13:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.45 Mbit/s

95th percentile per-packet one-way delay: 1.189 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 1.194 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 1.178 ms

Loss rate: 0.19%

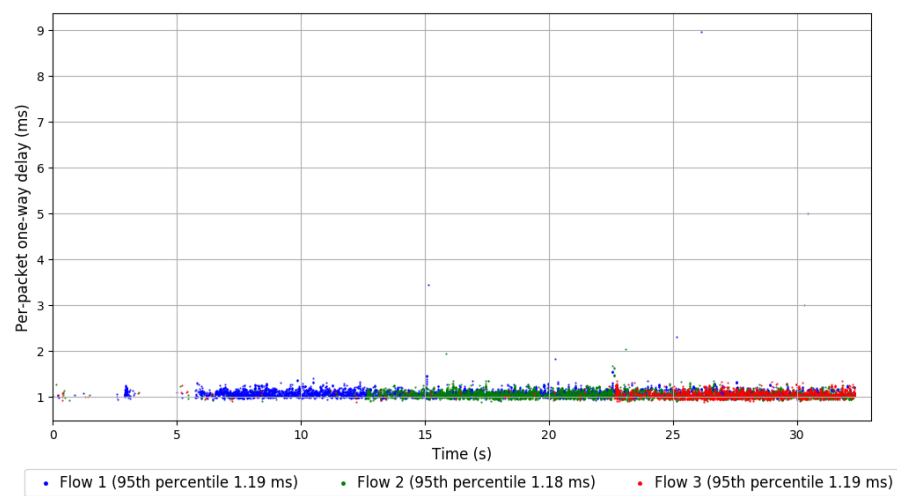
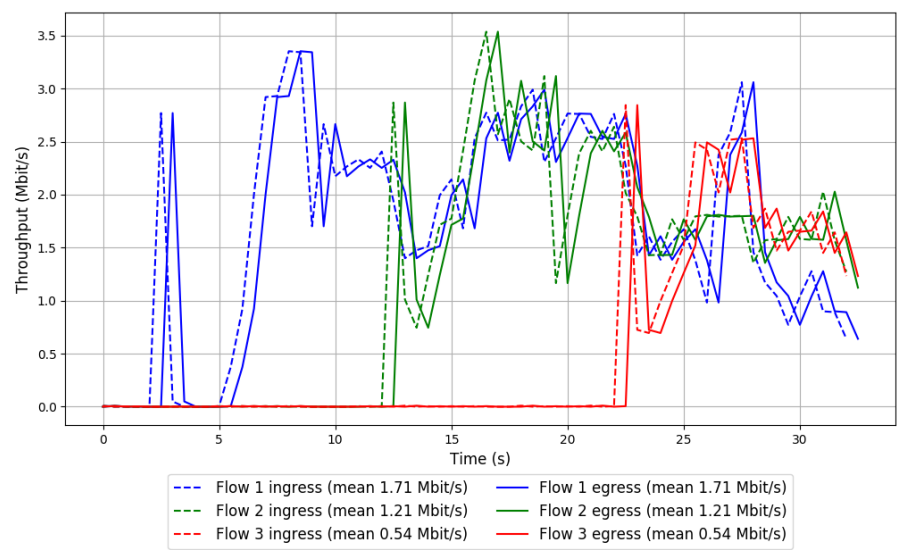
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 1.188 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

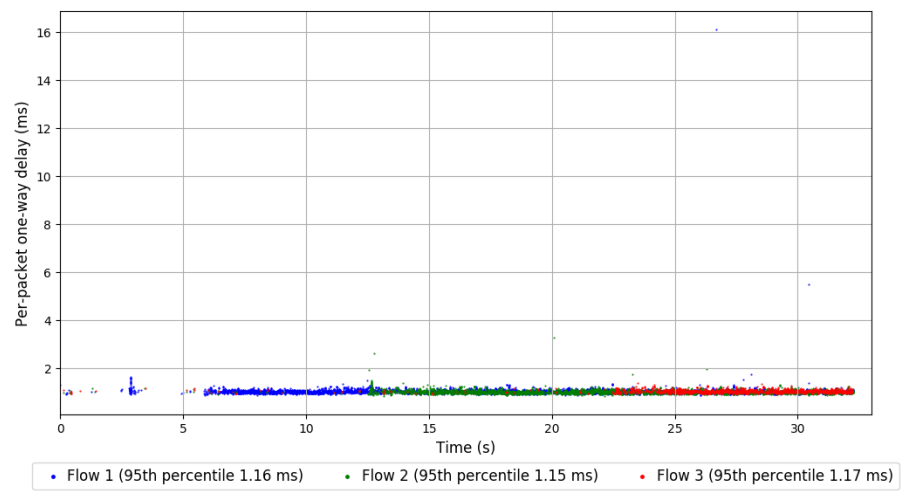
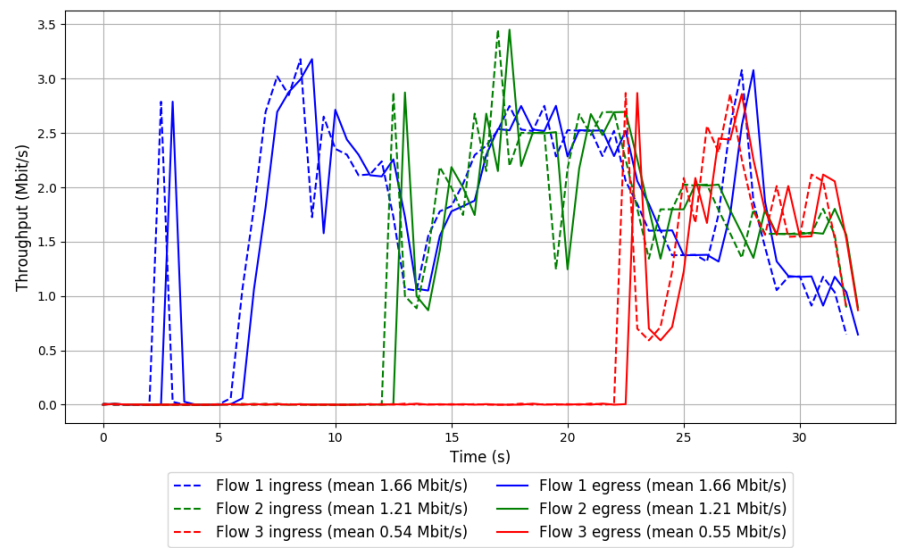


Run 6: Statistics of WebRTC media

Start at: 2018-06-06 05:03:25
End at: 2018-06-06 05:03:55
Local clock offset: 2.146 ms
Remote clock offset: -0.439 ms

Below is generated by plot.py at 2018-06-06 09:13:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.41 Mbit/s
95th percentile per-packet one-way delay: 1.158 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 1.66 Mbit/s
95th percentile per-packet one-way delay: 1.159 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 1.147 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 1.173 ms
Loss rate: 0.06%

Run 6: Report of WebRTC media — Data Link

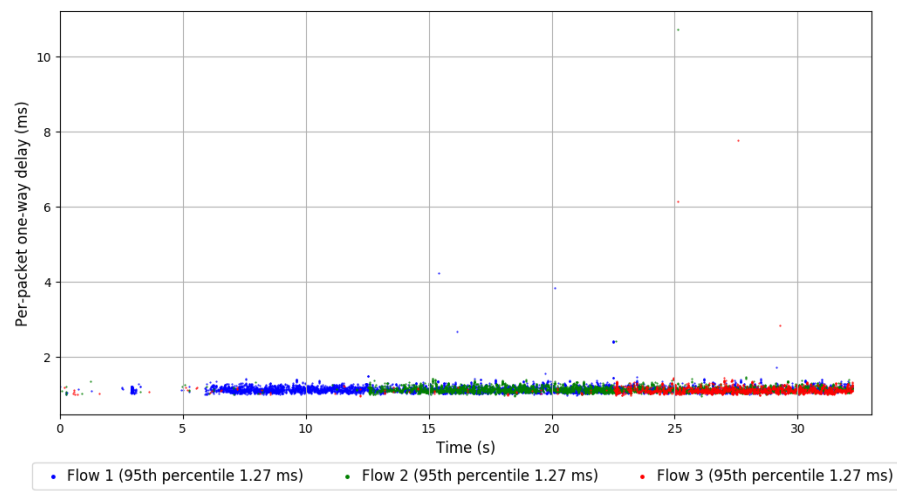
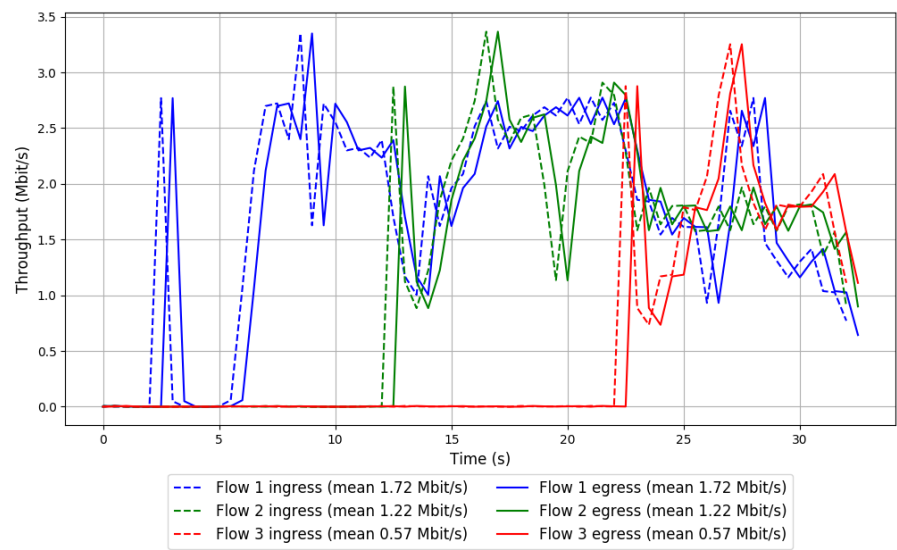


Run 7: Statistics of WebRTC media

Start at: 2018-06-06 05:28:43
End at: 2018-06-06 05:29:14
Local clock offset: 2.109 ms
Remote clock offset: -0.552 ms

Below is generated by plot.py at 2018-06-06 09:13:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.50 Mbit/s
95th percentile per-packet one-way delay: 1.272 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 1.72 Mbit/s
95th percentile per-packet one-way delay: 1.272 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 1.272 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 1.271 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-06-06 05:54:04

End at: 2018-06-06 05:54:34

Local clock offset: 1.77 ms

Remote clock offset: -0.5 ms

Below is generated by plot.py at 2018-06-06 09:13:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.44 Mbit/s

95th percentile per-packet one-way delay: 1.270 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.69 Mbit/s

95th percentile per-packet one-way delay: 1.274 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.23 Mbit/s

95th percentile per-packet one-way delay: 1.260 ms

Loss rate: 0.00%

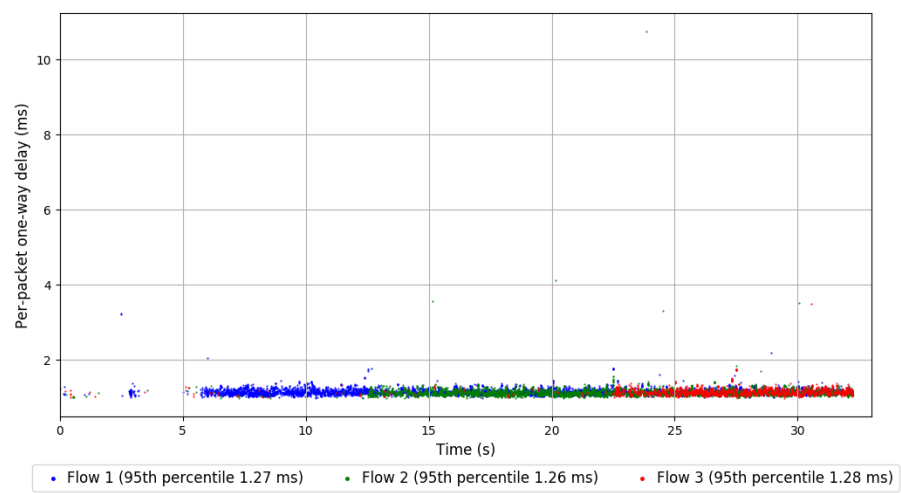
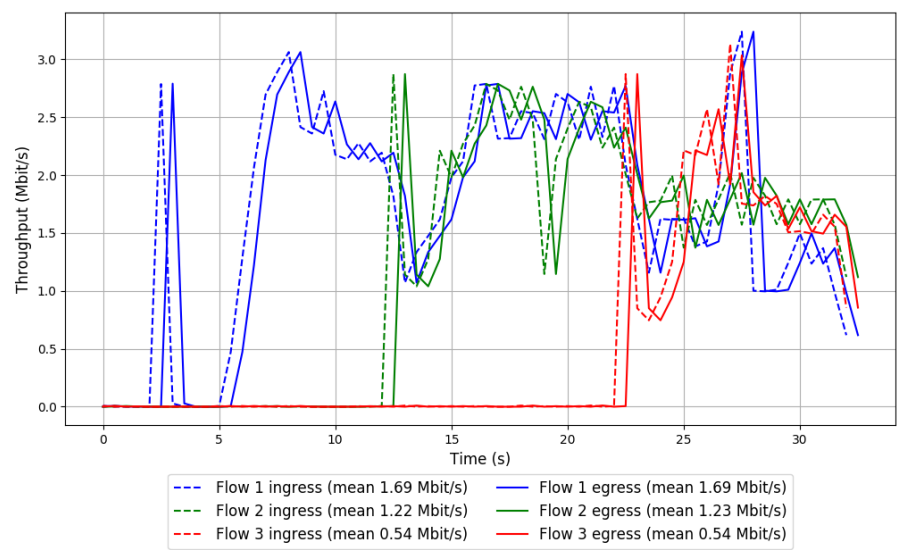
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 1.277 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-06-06 06:19:21

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

Local clock offset: 1.406 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-06-06 09:13:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.40 Mbit/s

95th percentile per-packet one-way delay: 1.293 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 1.66 Mbit/s

95th percentile per-packet one-way delay: 1.286 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 1.264 ms

Loss rate: 0.02%

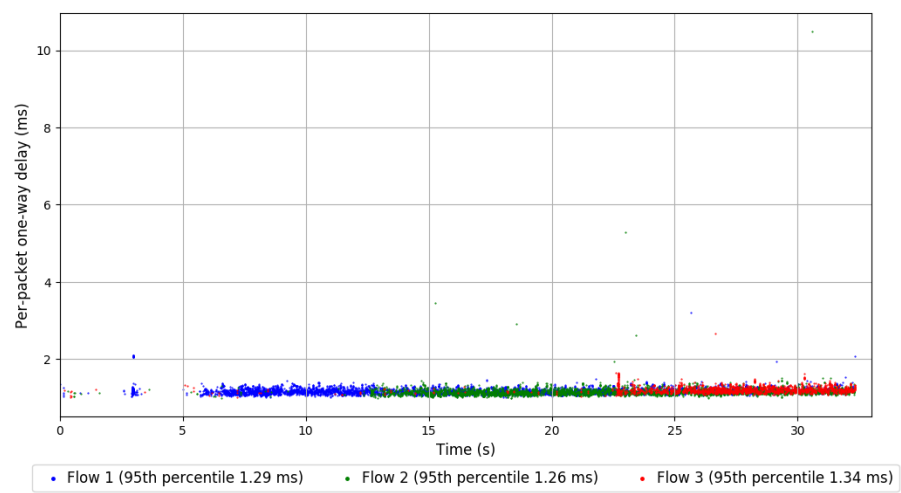
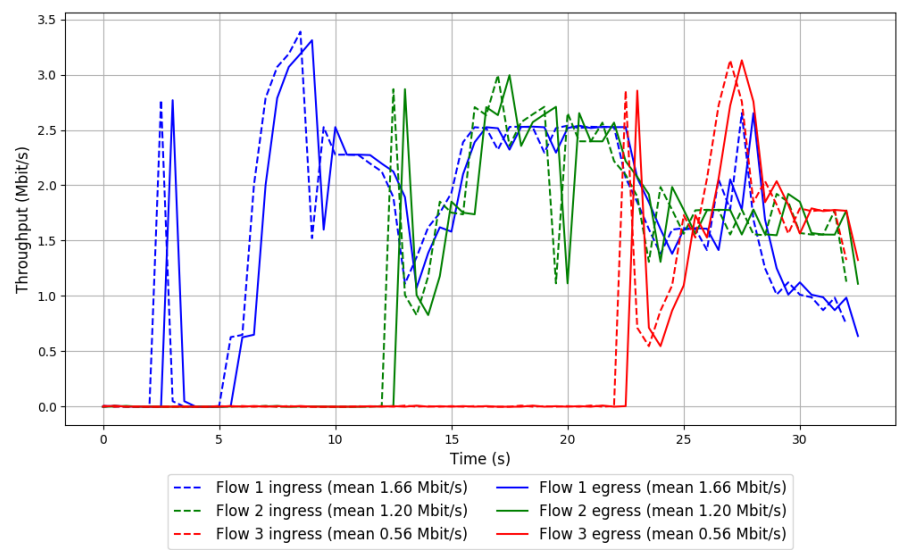
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 1.341 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-06 06:44:39

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

Local clock offset: -0.223 ms

Remote clock offset: 0.047 ms

Below is generated by plot.py at 2018-06-06 09:13:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.48 Mbit/s

95th percentile per-packet one-way delay: 1.057 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 1.045 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.23 Mbit/s

95th percentile per-packet one-way delay: 1.069 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 1.064 ms

Loss rate: 0.66%

Run 10: Report of WebRTC media — Data Link

