

Pantheon Report

Generated at 2017-11-16 15:49:52 (UTC).

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

Repeated the test of 14 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).

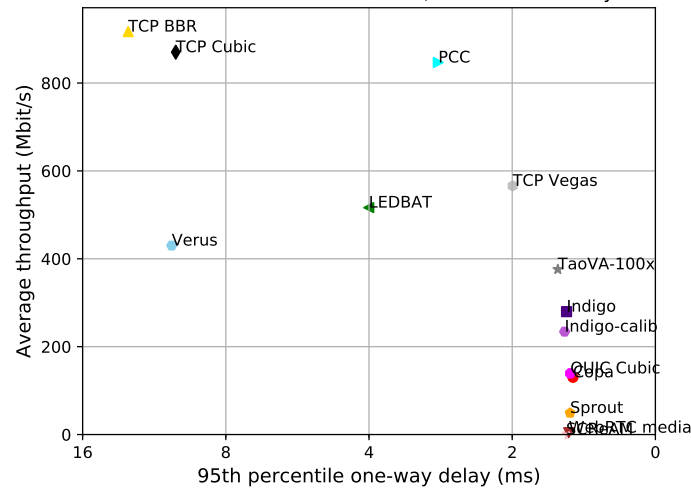
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

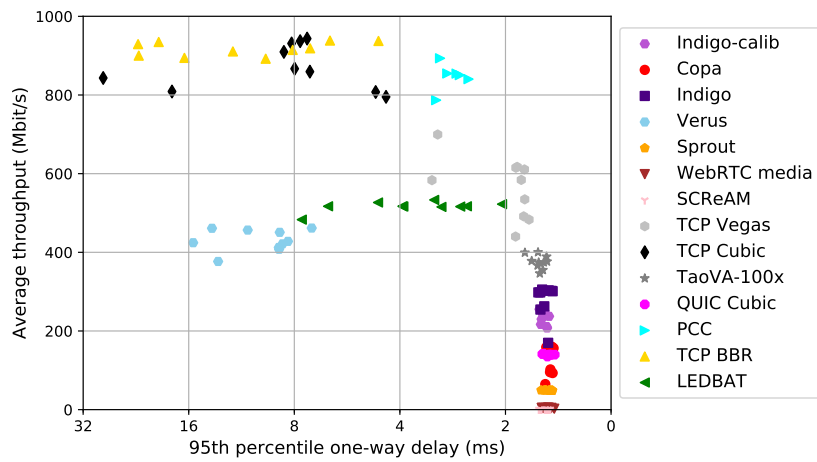
Git summary:

```
branch: indigos @ f54f2953f2a9765c9ffa988d13de5a9471790eb0
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fabb936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
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/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  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/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



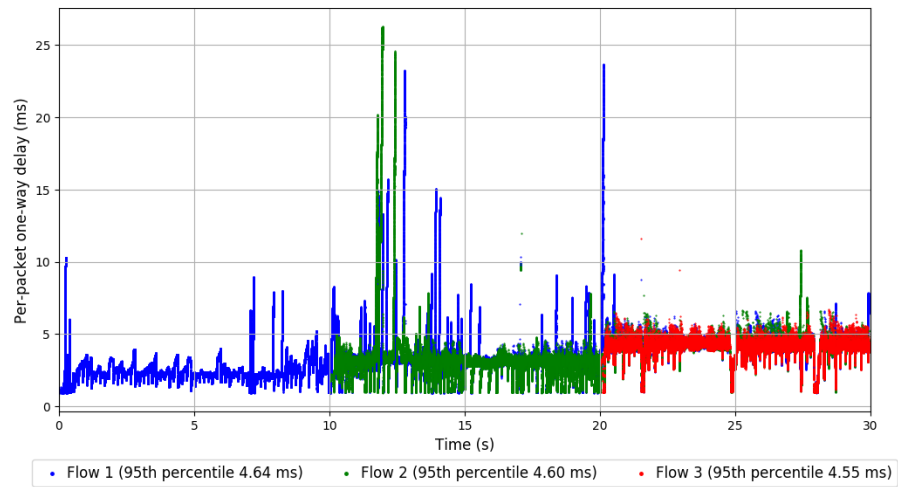
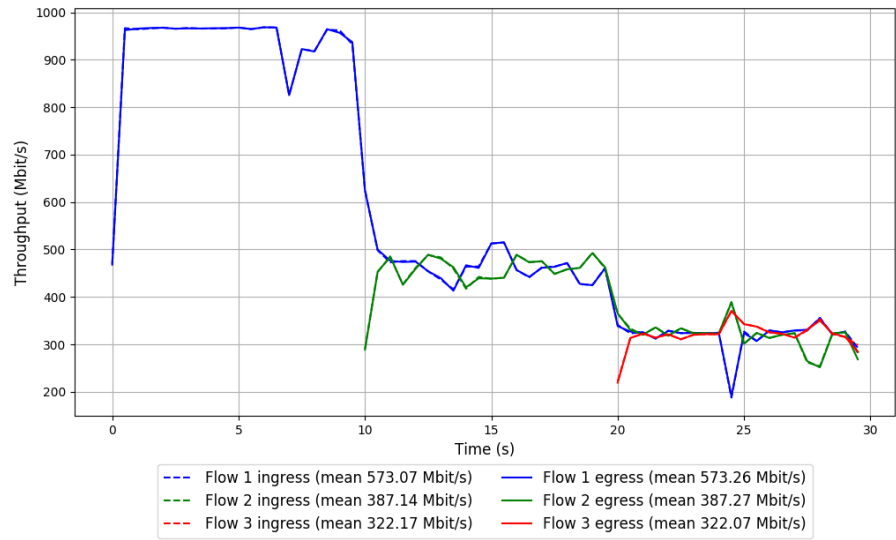
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	550.97	388.94	324.48	14.57	5.17	4.55	0.05	0.10	0.24
TCP Cubic	10	508.26	384.00	321.74	8.94	5.91	4.50	0.05	0.11	0.26
LEDBAT	10	300.74	239.27	171.47	3.70	4.25	2.37	0.04	0.08	0.29
PCC	6	628.93	259.81	128.79	2.88	2.85	2.74	0.21	0.13	0.28
QUIC Cubic	10	73.59	69.34	59.15	1.18	1.19	1.20	0.06	0.10	0.17
SCReAM	10	0.22	0.22	0.22	1.25	1.25	1.24	0.00	0.00	0.32
WebRTC media	10	2.16	1.52	0.64	1.21	1.21	1.21	0.01	0.11	0.44
Sprout	10	24.68	24.77	24.56	1.19	1.19	1.19	0.06	0.08	0.19
TaoVA-100x	10	207.16	197.57	149.47	1.29	1.42	1.75	0.05	0.07	0.24
TCP Vegas	10	244.84	325.65	313.40	145.22	2.01	2.08	0.05	0.08	0.20
Verus	10	252.96	189.87	155.47	11.69	9.50	4.67	0.08	0.09	0.22
Copa	10	49.12	85.99	85.81	570.06	1.15	1.22	0.03	0.10	0.16
Indigo	10	149.12	143.49	108.24	1.22	1.25	1.28	0.06	0.09	0.19
Indigo-calib	10	109.35	135.33	100.03	1.25	1.30	1.27	0.07	0.09	0.21

Run 1: Statistics of TCP BBR

Start at: 2017-11-16 07:27:16
End at: 2017-11-16 07:27:46
Local clock offset: 0.764 ms
Remote clock offset: -2.054 ms

Below is generated by plot.py at 2017-11-16 14:23:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 937.39 Mbit/s
95th percentile per-packet one-way delay: 4.604 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 573.26 Mbit/s
95th percentile per-packet one-way delay: 4.639 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 387.27 Mbit/s
95th percentile per-packet one-way delay: 4.603 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 322.07 Mbit/s
95th percentile per-packet one-way delay: 4.553 ms
Loss rate: 0.26%

Run 1: Report of TCP BBR — Data Link

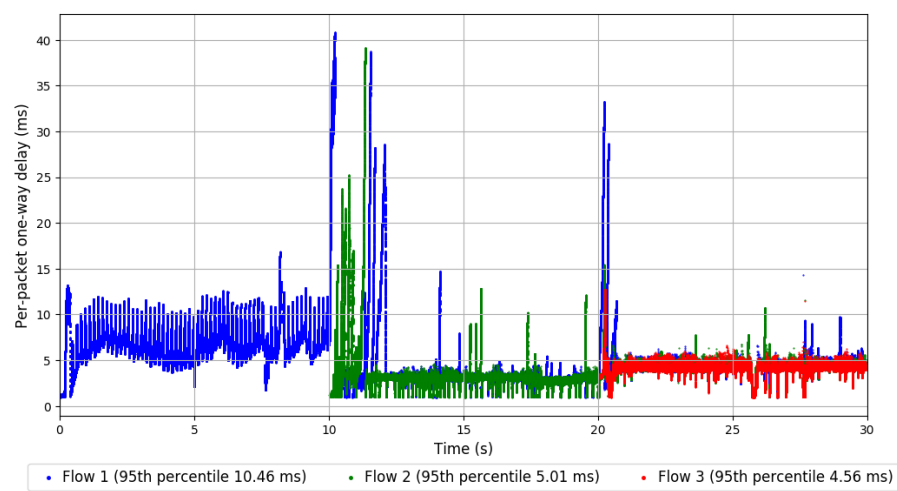
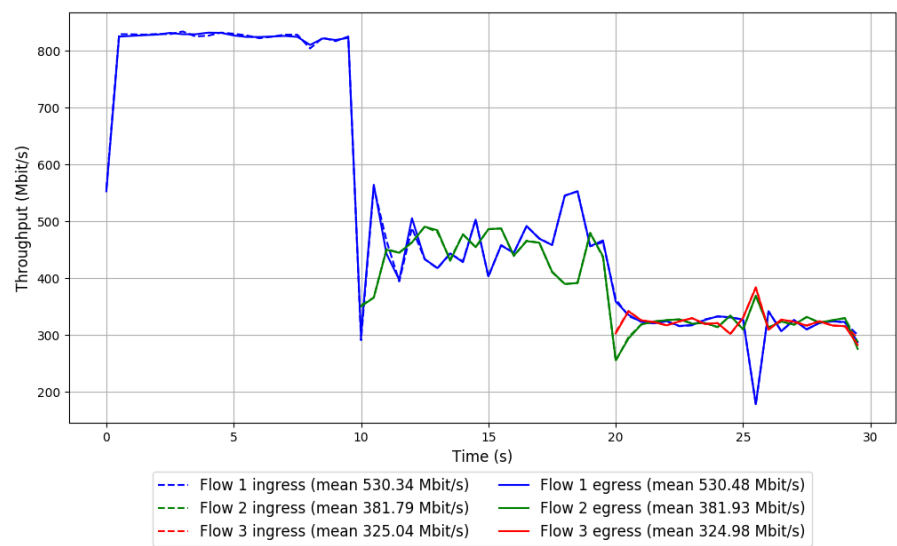


Run 2: Statistics of TCP BBR

Start at: 2017-11-16 07:47:55
End at: 2017-11-16 07:48:25
Local clock offset: 0.637 ms
Remote clock offset: -1.347 ms

Below is generated by plot.py at 2017-11-16 14:23:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 892.28 Mbit/s
95th percentile per-packet one-way delay: 9.654 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 530.48 Mbit/s
95th percentile per-packet one-way delay: 10.462 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 381.93 Mbit/s
95th percentile per-packet one-way delay: 5.011 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 324.98 Mbit/s
95th percentile per-packet one-way delay: 4.556 ms
Loss rate: 0.23%

Run 2: Report of TCP BBR — Data Link

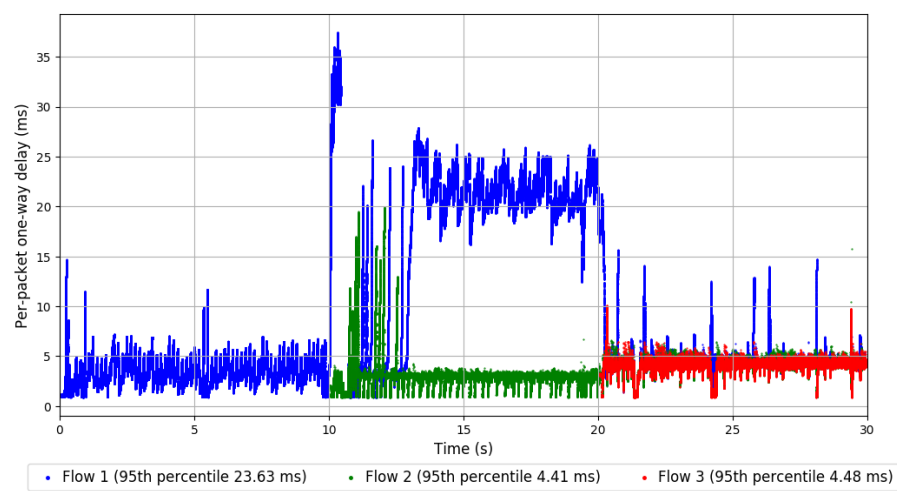
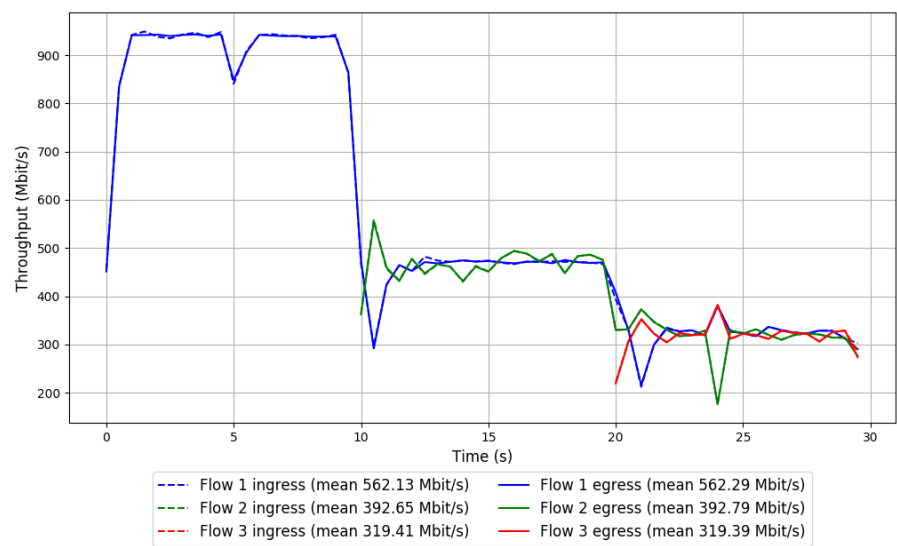


Run 3: Statistics of TCP BBR

Start at: 2017-11-16 08:08:33
End at: 2017-11-16 08:09:03
Local clock offset: 0.687 ms
Remote clock offset: -1.048 ms

Below is generated by plot.py at 2017-11-16 14:23:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 929.34 Mbit/s
95th percentile per-packet one-way delay: 22.312 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 562.29 Mbit/s
95th percentile per-packet one-way delay: 23.634 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 392.79 Mbit/s
95th percentile per-packet one-way delay: 4.410 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 319.39 Mbit/s
95th percentile per-packet one-way delay: 4.477 ms
Loss rate: 0.23%

Run 3: Report of TCP BBR — Data Link

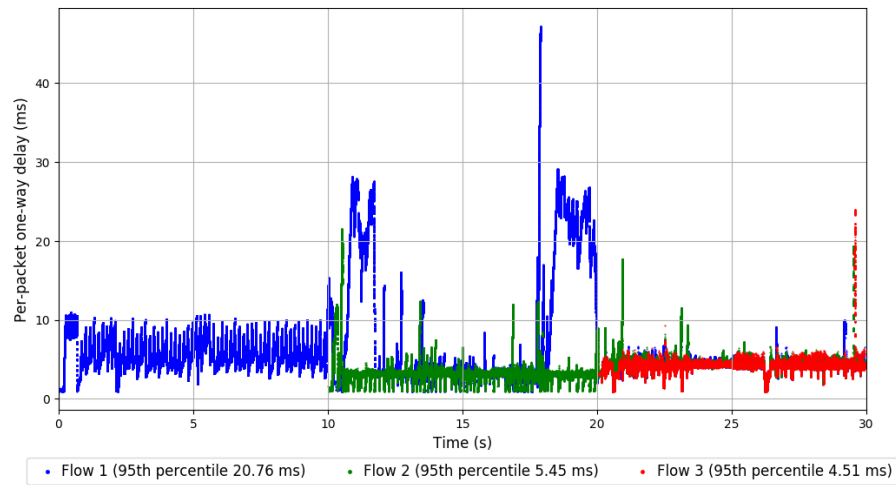
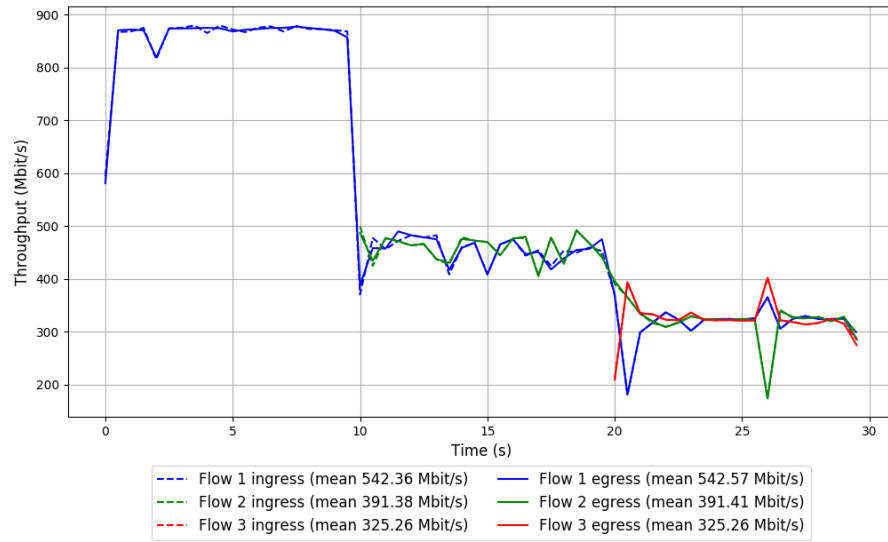


Run 4: Statistics of TCP BBR

Start at: 2017-11-16 08:29:21
End at: 2017-11-16 08:29:51
Local clock offset: 0.995 ms
Remote clock offset: -0.973 ms

Below is generated by plot.py at 2017-11-16 14:23:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 910.77 Mbit/s
95th percentile per-packet one-way delay: 11.973 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 542.57 Mbit/s
95th percentile per-packet one-way delay: 20.763 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 391.41 Mbit/s
95th percentile per-packet one-way delay: 5.449 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 325.26 Mbit/s
95th percentile per-packet one-way delay: 4.515 ms
Loss rate: 0.23%

Run 4: Report of TCP BBR — Data Link

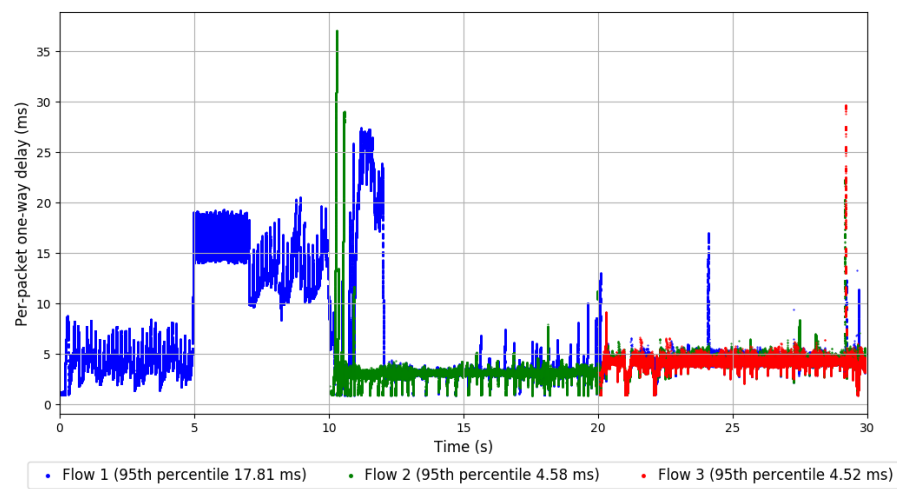
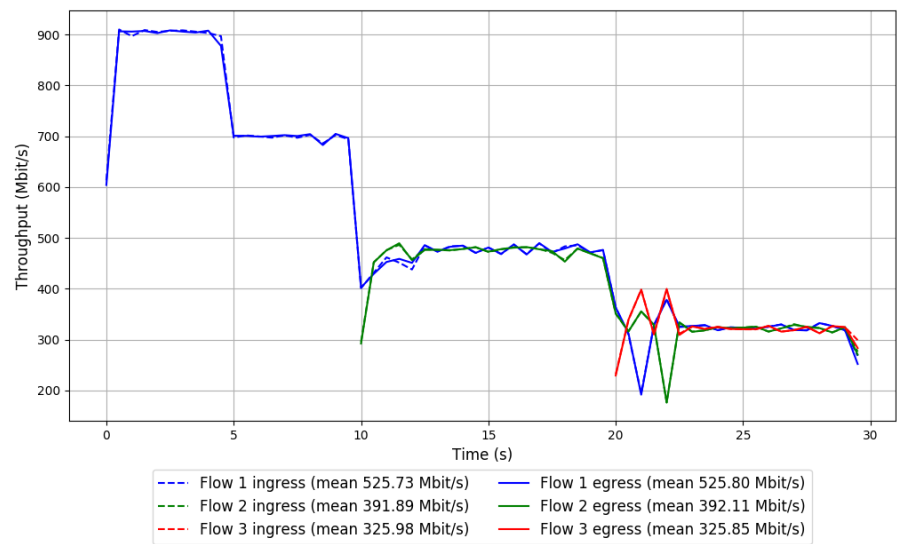


Run 5: Statistics of TCP BBR

Start at: 2017-11-16 08:50:05
End at: 2017-11-16 08:50:35
Local clock offset: 1.097 ms
Remote clock offset: -0.654 ms

Below is generated by plot.py at 2017-11-16 14:23:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 894.40 Mbit/s
95th percentile per-packet one-way delay: 16.459 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 525.80 Mbit/s
95th percentile per-packet one-way delay: 17.814 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 392.11 Mbit/s
95th percentile per-packet one-way delay: 4.585 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 325.85 Mbit/s
95th percentile per-packet one-way delay: 4.520 ms
Loss rate: 0.28%

Run 5: Report of TCP BBR — Data Link

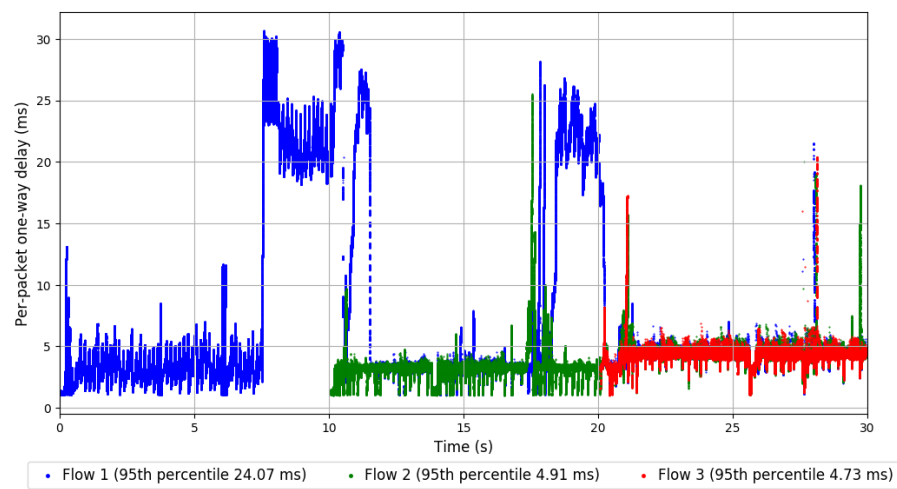
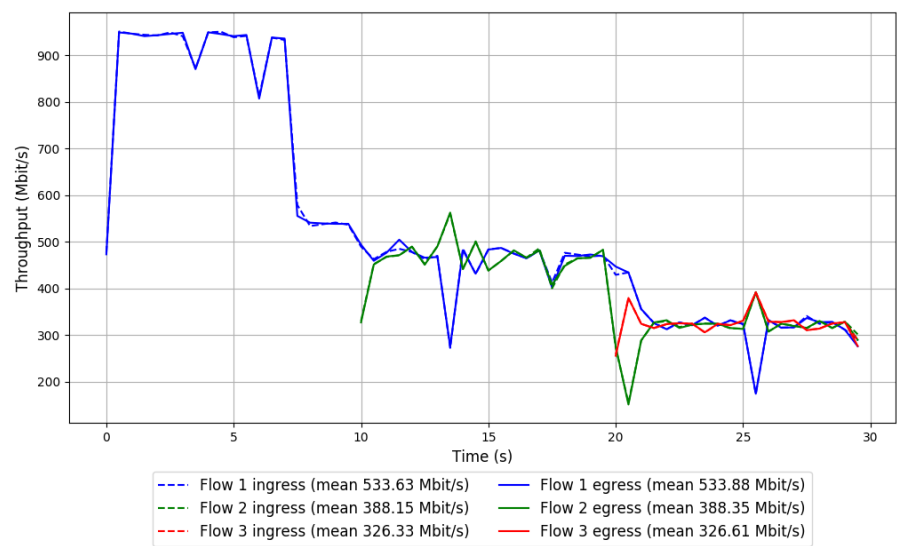


Run 6: Statistics of TCP BBR

Start at: 2017-11-16 09:10:28
End at: 2017-11-16 09:10:58
Local clock offset: 1.238 ms
Remote clock offset: -0.576 ms

Below is generated by plot.py at 2017-11-16 14:23:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 900.12 Mbit/s
95th percentile per-packet one-way delay: 22.214 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 533.88 Mbit/s
95th percentile per-packet one-way delay: 24.065 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 388.35 Mbit/s
95th percentile per-packet one-way delay: 4.908 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 326.61 Mbit/s
95th percentile per-packet one-way delay: 4.733 ms
Loss rate: 0.23%

Run 6: Report of TCP BBR — Data Link

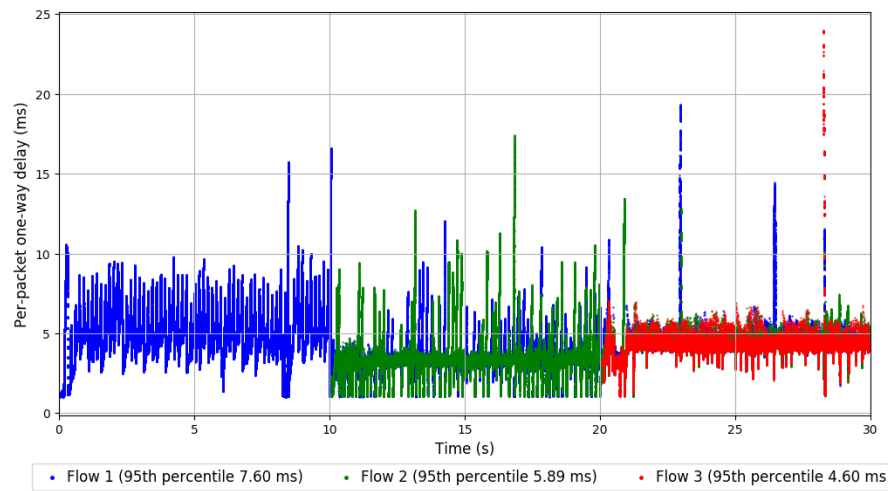
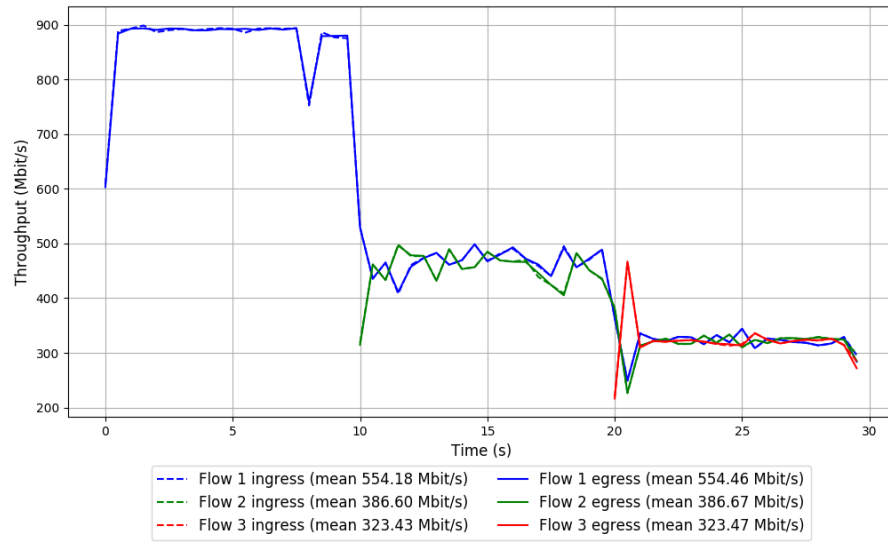


Run 7: Statistics of TCP BBR

Start at: 2017-11-16 09:30:57
End at: 2017-11-16 09:31:27
Local clock offset: 1.242 ms
Remote clock offset: -0.312 ms

Below is generated by plot.py at 2017-11-16 14:23:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 918.74 Mbit/s
95th percentile per-packet one-way delay: 7.211 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 554.46 Mbit/s
95th percentile per-packet one-way delay: 7.600 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 386.67 Mbit/s
95th percentile per-packet one-way delay: 5.886 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 323.47 Mbit/s
95th percentile per-packet one-way delay: 4.602 ms
Loss rate: 0.23%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-16 09:51:06

End at: 2017-11-16 09:51:36

Local clock offset: 1.115 ms

Remote clock offset: 0.139 ms

Below is generated by plot.py at 2017-11-16 14:23:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 914.62 Mbit/s

95th percentile per-packet one-way delay: 8.086 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 543.61 Mbit/s

95th percentile per-packet one-way delay: 8.721 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 396.21 Mbit/s

95th percentile per-packet one-way delay: 4.591 ms

Loss rate: 0.09%

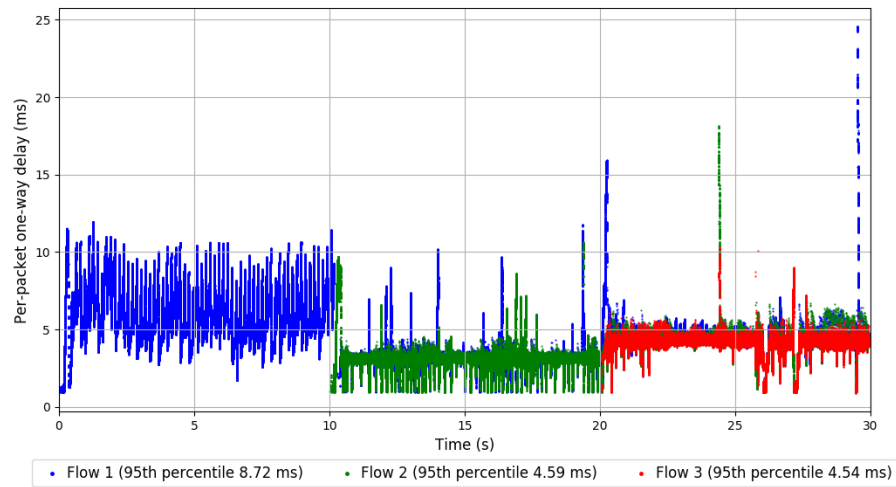
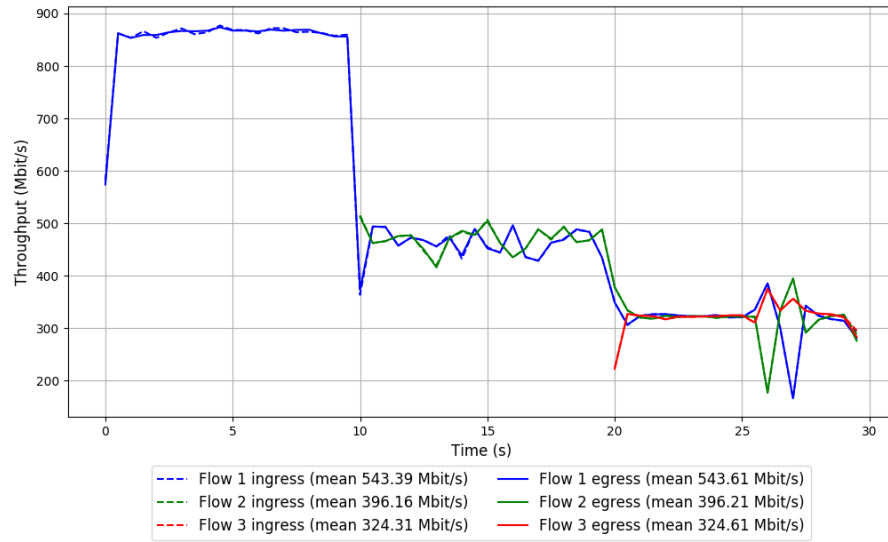
-- Flow 3:

Average throughput: 324.61 Mbit/s

95th percentile per-packet one-way delay: 4.539 ms

Loss rate: 0.23%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-16 10:11:41

End at: 2017-11-16 10:12:11

Local clock offset: 0.945 ms

Remote clock offset: 0.162 ms

Below is generated by plot.py at 2017-11-16 14:36:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 934.74 Mbit/s

95th percentile per-packet one-way delay: 19.486 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 567.86 Mbit/s

95th percentile per-packet one-way delay: 21.505 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 389.23 Mbit/s

95th percentile per-packet one-way delay: 5.574 ms

Loss rate: 0.10%

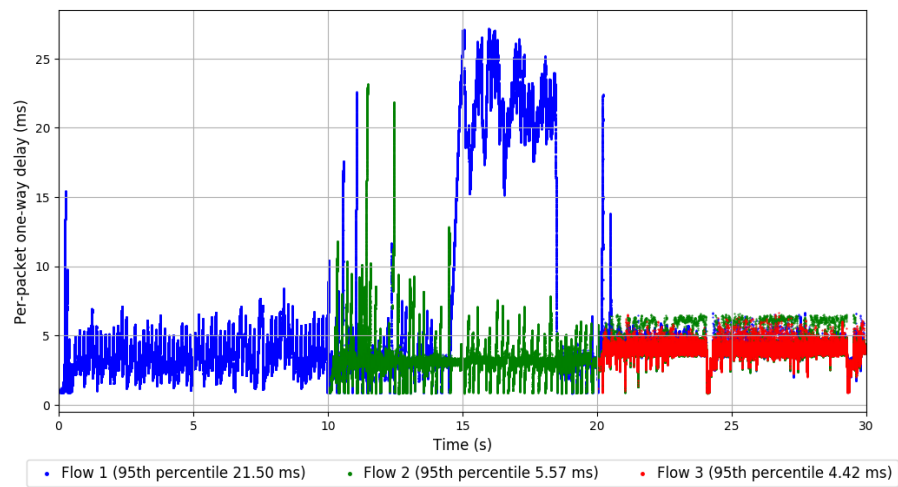
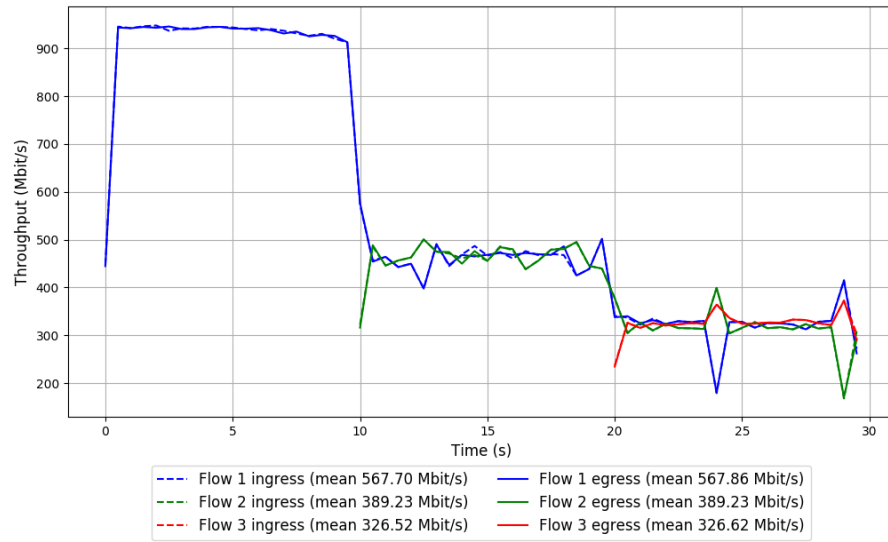
-- Flow 3:

Average throughput: 326.62 Mbit/s

95th percentile per-packet one-way delay: 4.423 ms

Loss rate: 0.24%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-16 10:32:00

End at: 2017-11-16 10:32:30

Local clock offset: 0.804 ms

Remote clock offset: 0.036 ms

Below is generated by plot.py at 2017-11-16 14:36:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 938.43 Mbit/s

95th percentile per-packet one-way delay: 6.330 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 575.49 Mbit/s

95th percentile per-packet one-way delay: 6.519 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 383.41 Mbit/s

95th percentile per-packet one-way delay: 6.726 ms

Loss rate: 0.10%

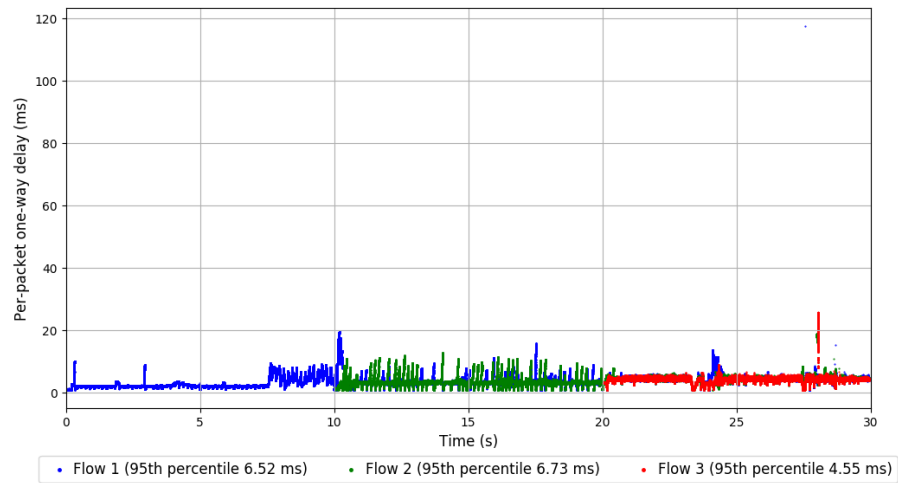
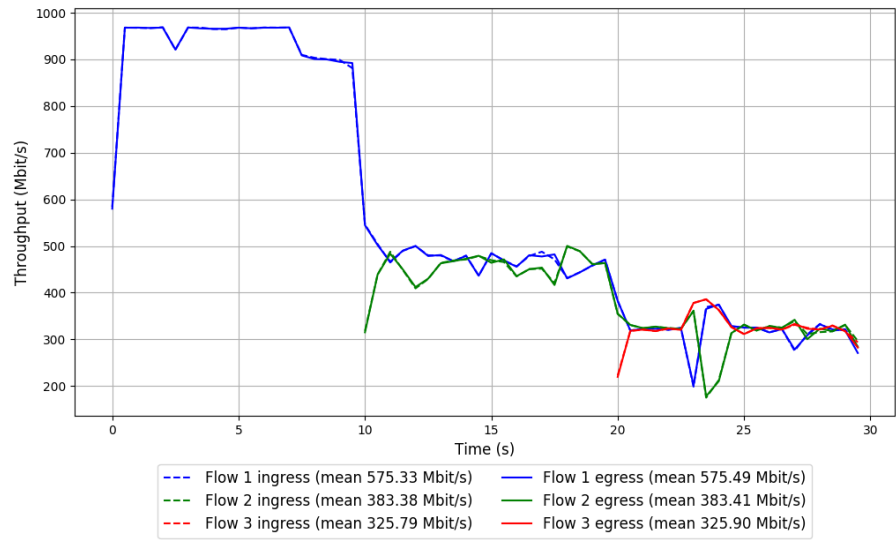
-- Flow 3:

Average throughput: 325.90 Mbit/s

95th percentile per-packet one-way delay: 4.549 ms

Loss rate: 0.22%

Run 10: Report of TCP BBR — Data Link

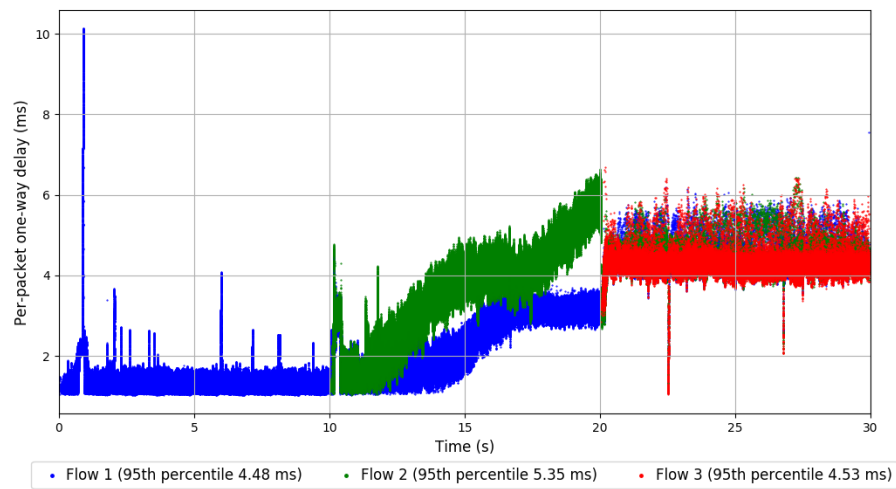
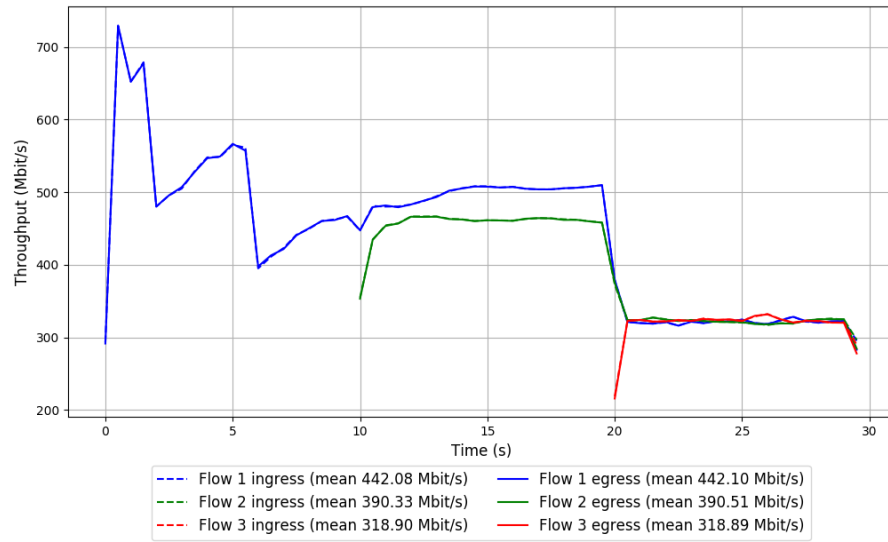


Run 1: Statistics of TCP Cubic

Start at: 2017-11-16 07:18:24
End at: 2017-11-16 07:18:54
Local clock offset: 0.926 ms
Remote clock offset: -2.292 ms

Below is generated by plot.py at 2017-11-16 14:36:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 807.61 Mbit/s
95th percentile per-packet one-way delay: 4.690 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 442.10 Mbit/s
95th percentile per-packet one-way delay: 4.482 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 390.51 Mbit/s
95th percentile per-packet one-way delay: 5.349 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 318.89 Mbit/s
95th percentile per-packet one-way delay: 4.526 ms
Loss rate: 0.24%

Run 1: Report of TCP Cubic — Data Link

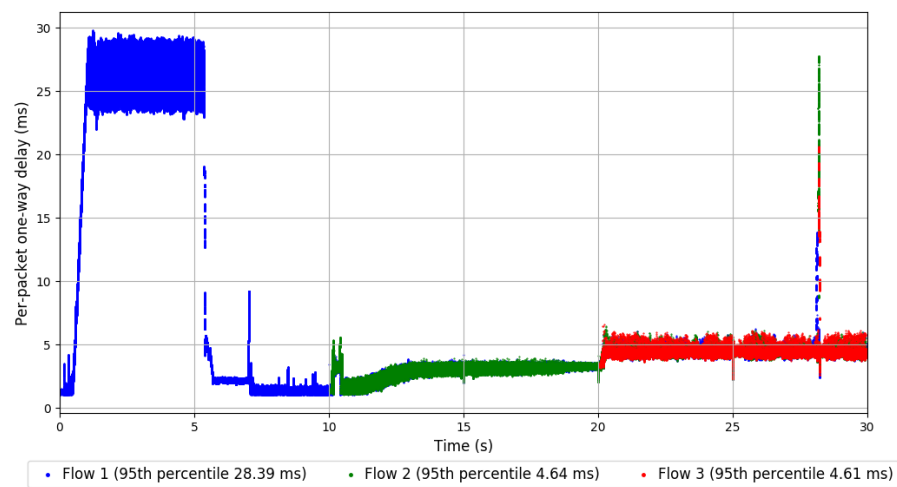
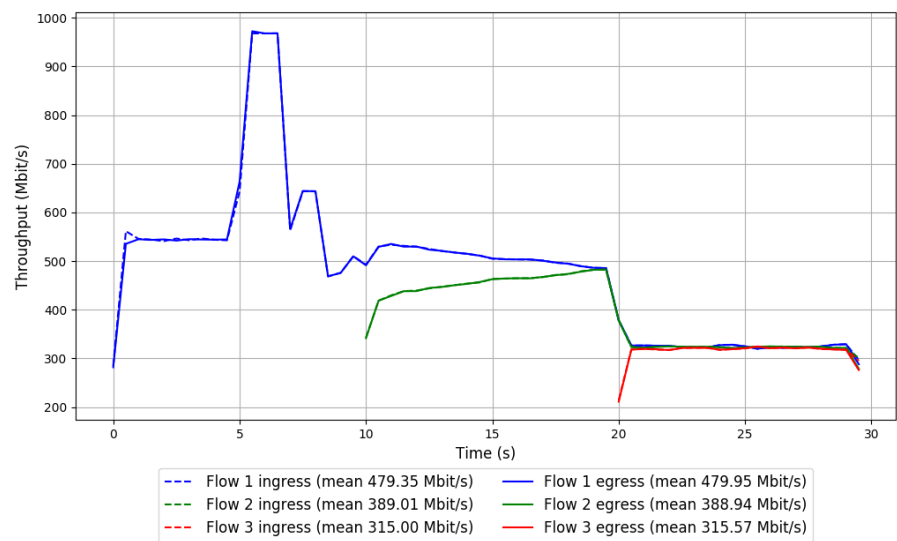


Run 2: Statistics of TCP Cubic

Start at: 2017-11-16 07:39:08
End at: 2017-11-16 07:39:38
Local clock offset: 0.771 ms
Remote clock offset: -1.591 ms

Below is generated by plot.py at 2017-11-16 14:36:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 843.24 Mbit/s
95th percentile per-packet one-way delay: 28.051 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 479.95 Mbit/s
95th percentile per-packet one-way delay: 28.389 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 388.94 Mbit/s
95th percentile per-packet one-way delay: 4.639 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 315.57 Mbit/s
95th percentile per-packet one-way delay: 4.613 ms
Loss rate: 0.35%

Run 2: Report of TCP Cubic — Data Link

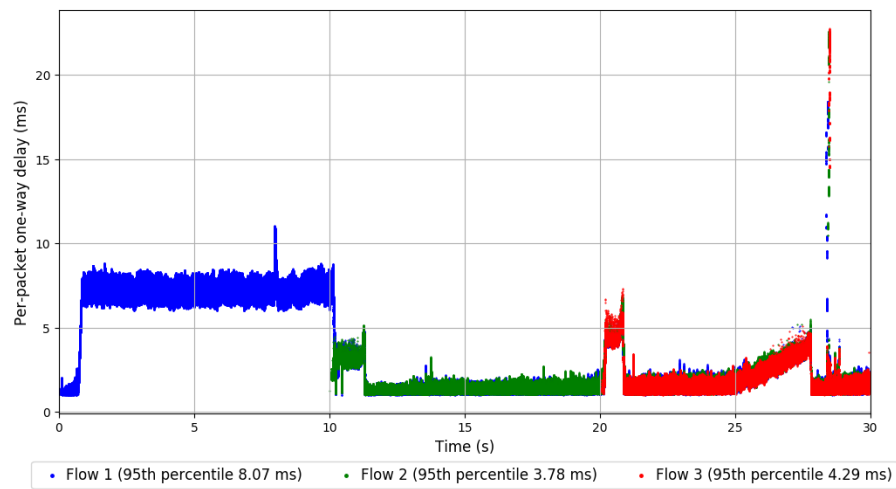
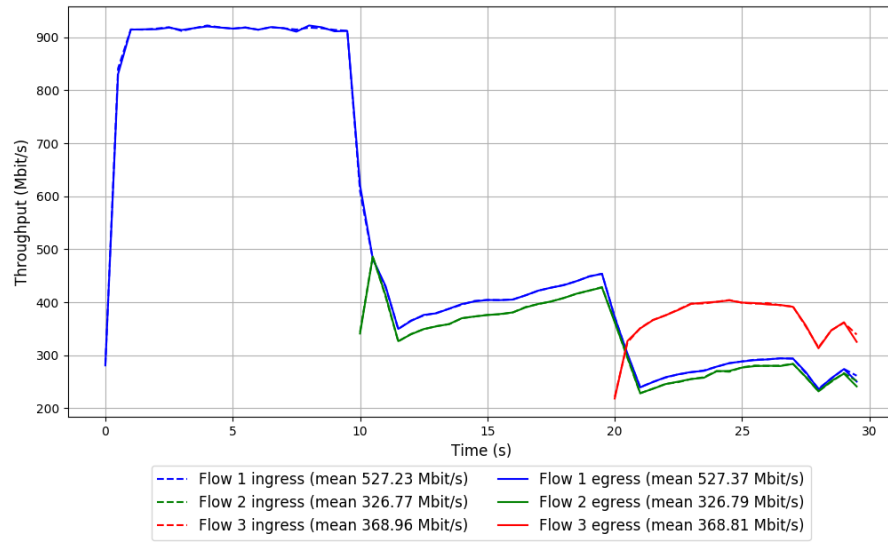


Run 3: Statistics of TCP Cubic

Start at: 2017-11-16 07:59:42
End at: 2017-11-16 08:00:12
Local clock offset: 0.709 ms
Remote clock offset: -1.238 ms

Below is generated by plot.py at 2017-11-16 14:36:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 866.85 Mbit/s
95th percentile per-packet one-way delay: 7.982 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 527.37 Mbit/s
95th percentile per-packet one-way delay: 8.069 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 326.79 Mbit/s
95th percentile per-packet one-way delay: 3.780 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 368.81 Mbit/s
95th percentile per-packet one-way delay: 4.292 ms
Loss rate: 0.22%

Run 3: Report of TCP Cubic — Data Link

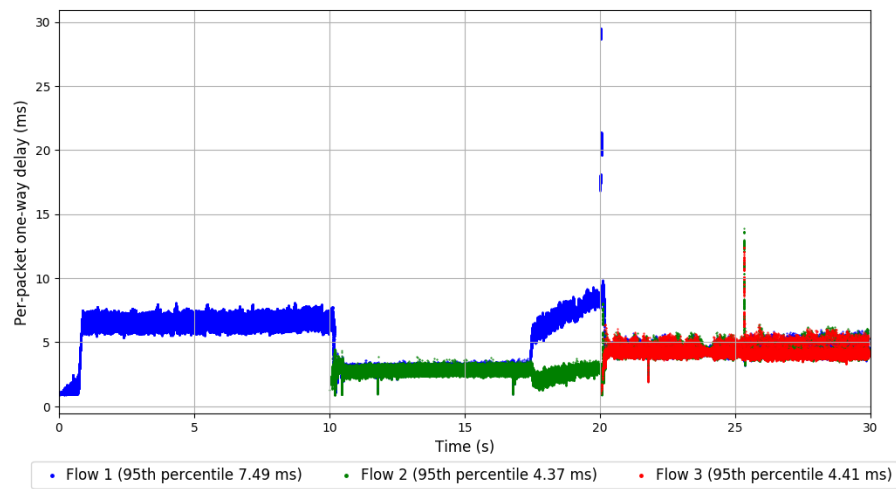
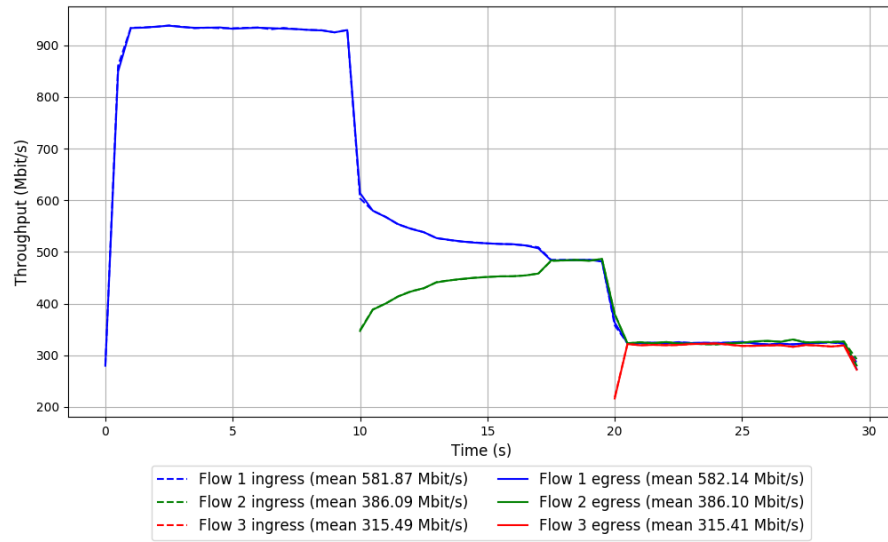


Run 4: Statistics of TCP Cubic

Start at: 2017-11-16 08:20:24
End at: 2017-11-16 08:20:54
Local clock offset: 0.77 ms
Remote clock offset: -1.124 ms

Below is generated by plot.py at 2017-11-16 14:37:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 943.44 Mbit/s
95th percentile per-packet one-way delay: 7.354 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 582.14 Mbit/s
95th percentile per-packet one-way delay: 7.486 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 386.10 Mbit/s
95th percentile per-packet one-way delay: 4.373 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 315.41 Mbit/s
95th percentile per-packet one-way delay: 4.413 ms
Loss rate: 0.24%

Run 4: Report of TCP Cubic — Data Link

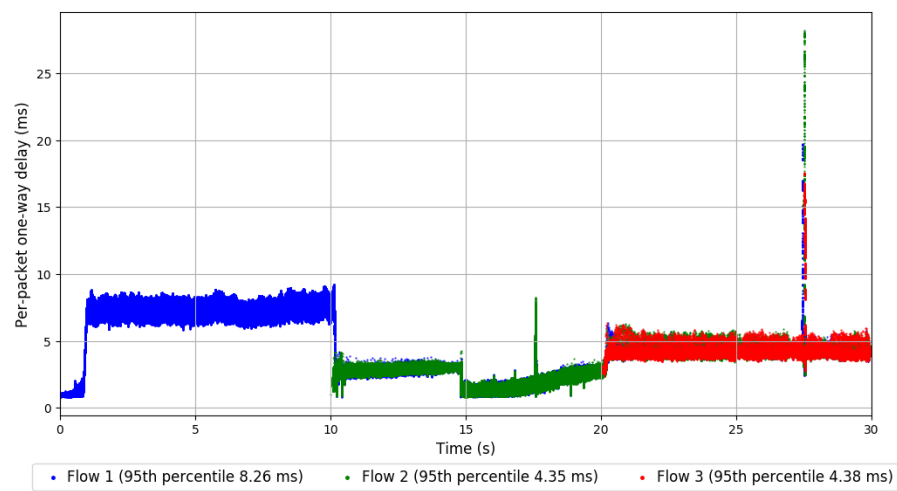
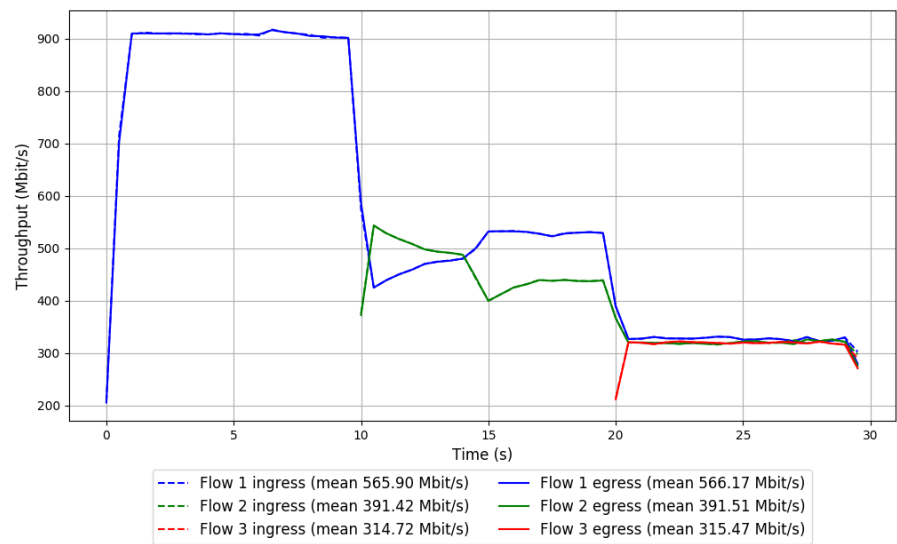


Run 5: Statistics of TCP Cubic

Start at: 2017-11-16 08:41:11
End at: 2017-11-16 08:41:41
Local clock offset: 1.02 ms
Remote clock offset: -0.774 ms

Below is generated by plot.py at 2017-11-16 14:37:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 931.01 Mbit/s
95th percentile per-packet one-way delay: 8.144 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 566.17 Mbit/s
95th percentile per-packet one-way delay: 8.259 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 391.51 Mbit/s
95th percentile per-packet one-way delay: 4.351 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 315.47 Mbit/s
95th percentile per-packet one-way delay: 4.381 ms
Loss rate: 0.35%

Run 5: Report of TCP Cubic — Data Link

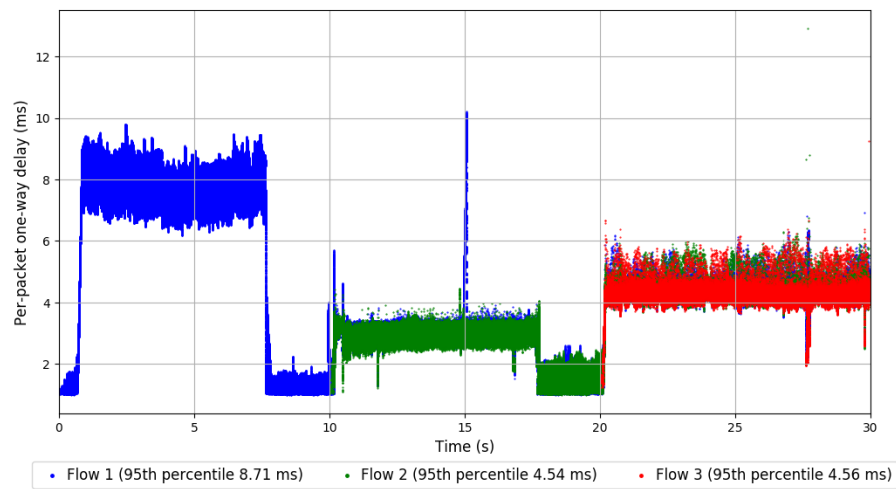
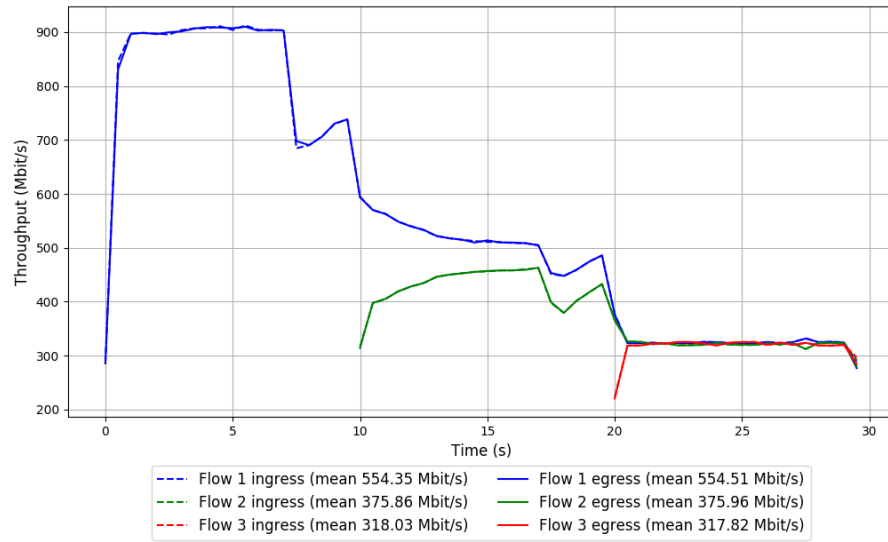


Run 6: Statistics of TCP Cubic

Start at: 2017-11-16 09:01:35
End at: 2017-11-16 09:02:05
Local clock offset: 1.226 ms
Remote clock offset: -0.645 ms

Below is generated by plot.py at 2017-11-16 14:37:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 909.57 Mbit/s
95th percentile per-packet one-way delay: 8.566 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 554.51 Mbit/s
95th percentile per-packet one-way delay: 8.705 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 375.96 Mbit/s
95th percentile per-packet one-way delay: 4.542 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 317.82 Mbit/s
95th percentile per-packet one-way delay: 4.562 ms
Loss rate: 0.24%

Run 6: Report of TCP Cubic — Data Link

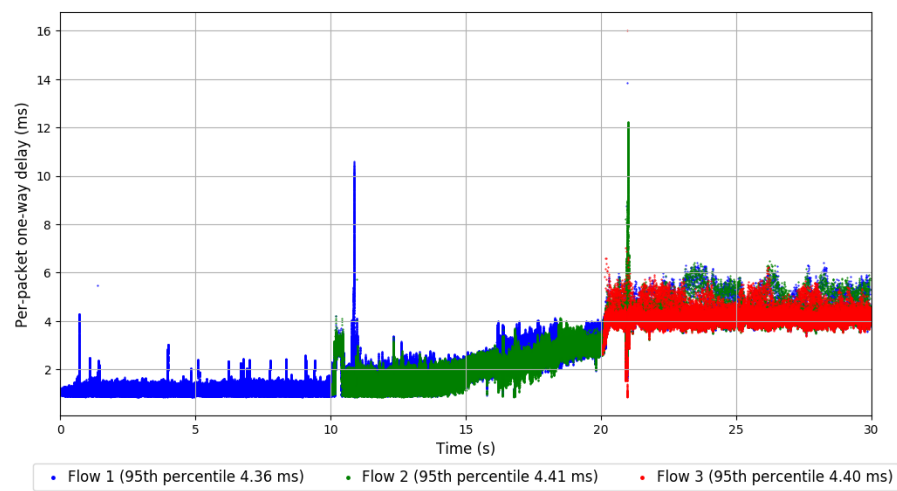
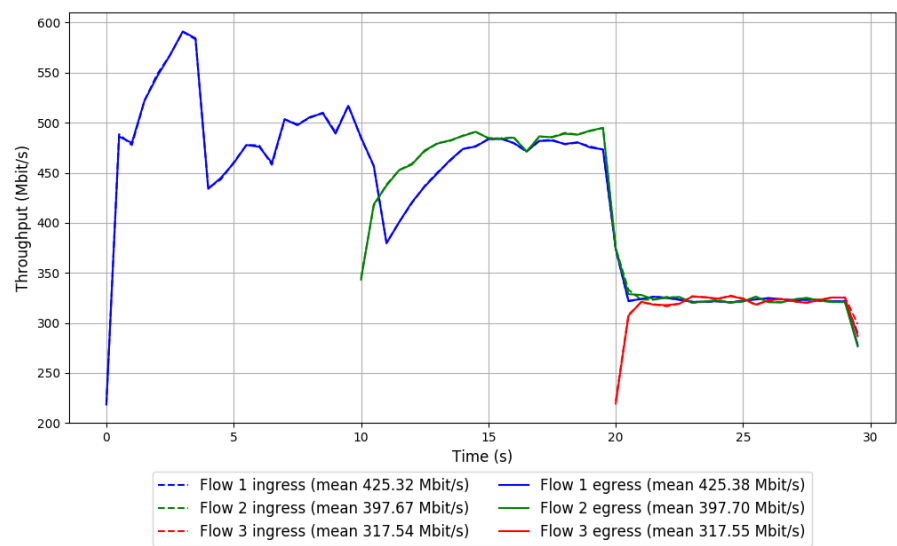


Run 7: Statistics of TCP Cubic

Start at: 2017-11-16 09:22:15
End at: 2017-11-16 09:22:45
Local clock offset: 1.148 ms
Remote clock offset: -0.428 ms

Below is generated by plot.py at 2017-11-16 14:45:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 795.31 Mbit/s
95th percentile per-packet one-way delay: 4.381 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 425.38 Mbit/s
95th percentile per-packet one-way delay: 4.358 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 397.70 Mbit/s
95th percentile per-packet one-way delay: 4.406 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 317.55 Mbit/s
95th percentile per-packet one-way delay: 4.398 ms
Loss rate: 0.24%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-16 09:42:21

End at: 2017-11-16 09:42:51

Local clock offset: 1.292 ms

Remote clock offset: 0.038 ms

Below is generated by plot.py at 2017-11-16 14:46:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 808.87 Mbit/s

95th percentile per-packet one-way delay: 17.858 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 443.80 Mbit/s

95th percentile per-packet one-way delay: 4.502 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 392.21 Mbit/s

95th percentile per-packet one-way delay: 18.446 ms

Loss rate: 0.10%

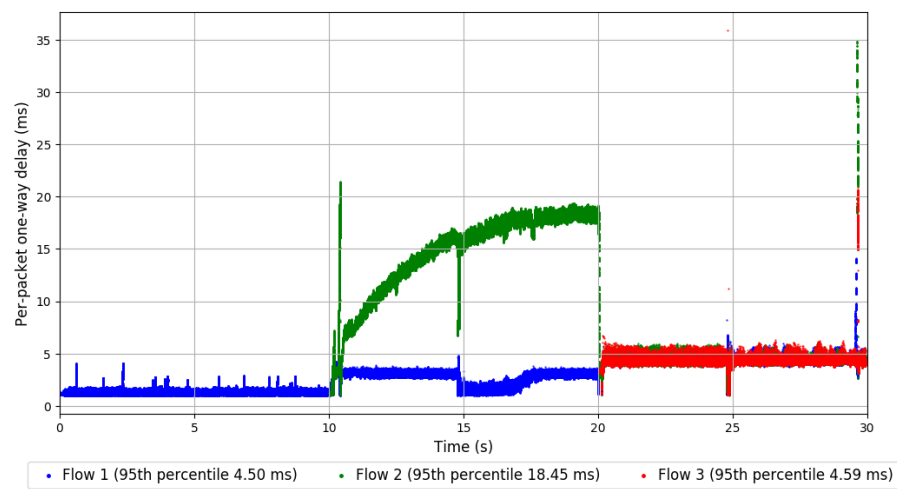
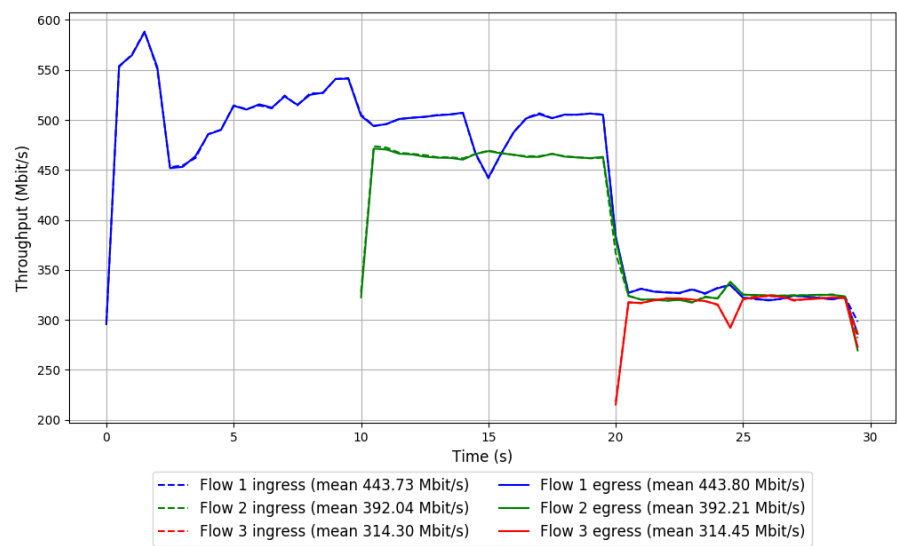
-- Flow 3:

Average throughput: 314.45 Mbit/s

95th percentile per-packet one-way delay: 4.594 ms

Loss rate: 0.25%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-16 10:02:57

End at: 2017-11-16 10:03:27

Local clock offset: 1.114 ms

Remote clock offset: 0.039 ms

Below is generated by plot.py at 2017-11-16 14:47:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 859.39 Mbit/s

95th percentile per-packet one-way delay: 7.223 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 496.48 Mbit/s

95th percentile per-packet one-way delay: 7.342 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 388.57 Mbit/s

95th percentile per-packet one-way delay: 4.595 ms

Loss rate: 0.09%

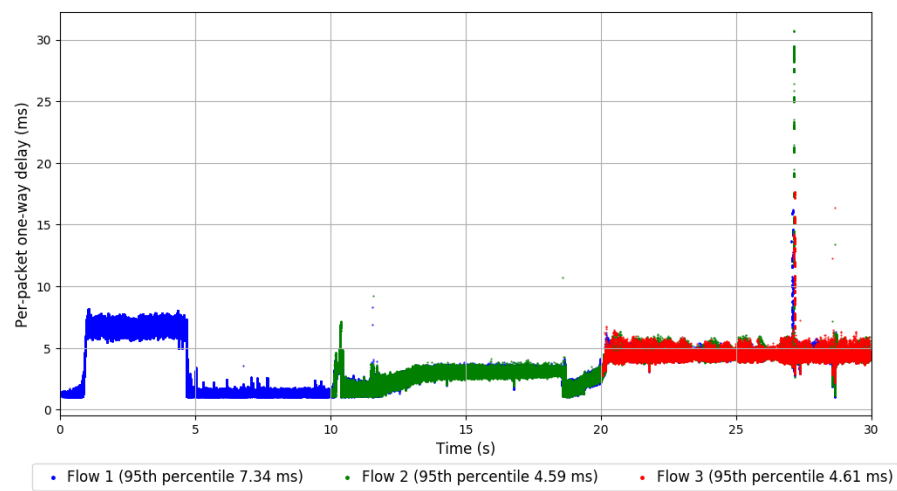
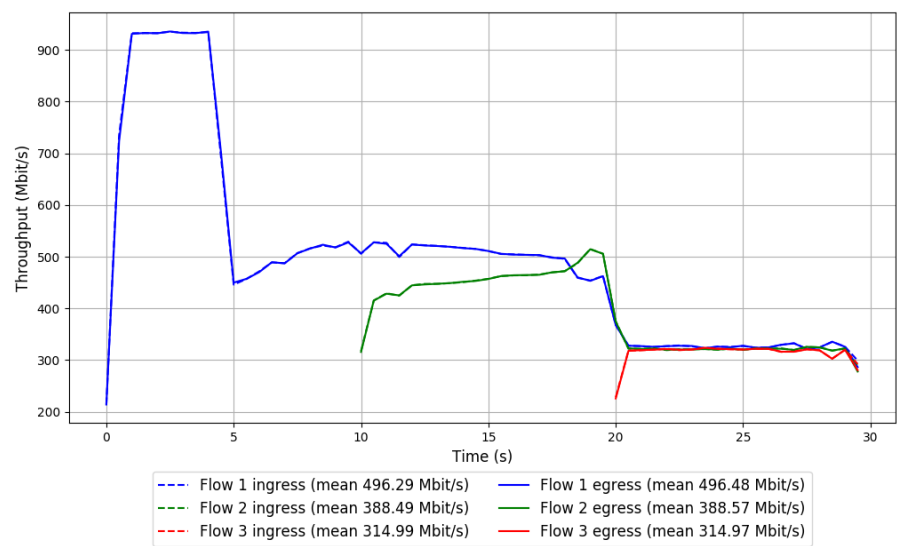
-- Flow 3:

Average throughput: 314.97 Mbit/s

95th percentile per-packet one-way delay: 4.605 ms

Loss rate: 0.24%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-16 10:23:06

End at: 2017-11-16 10:23:36

Local clock offset: 0.939 ms

Remote clock offset: 0.045 ms

Below is generated by plot.py at 2017-11-16 14:49:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 936.86 Mbit/s

95th percentile per-packet one-way delay: 7.698 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 564.74 Mbit/s

95th percentile per-packet one-way delay: 7.813 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 401.71 Mbit/s

95th percentile per-packet one-way delay: 4.602 ms

Loss rate: 0.11%

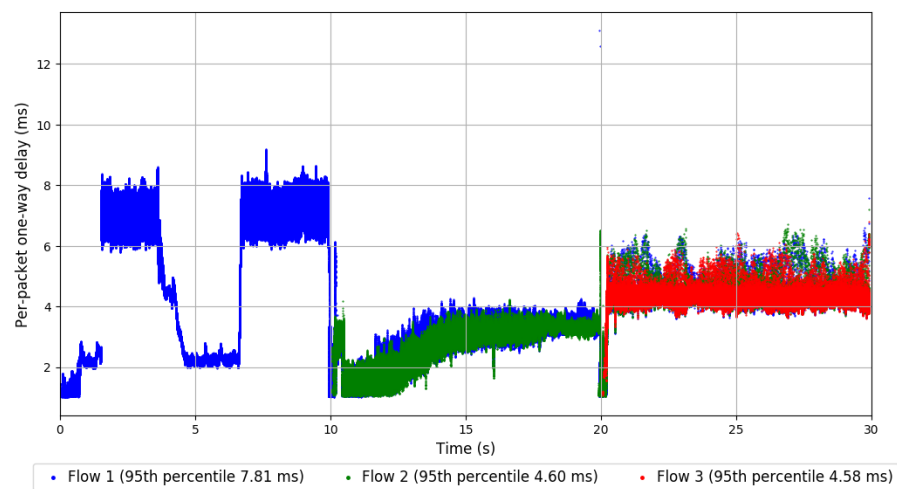
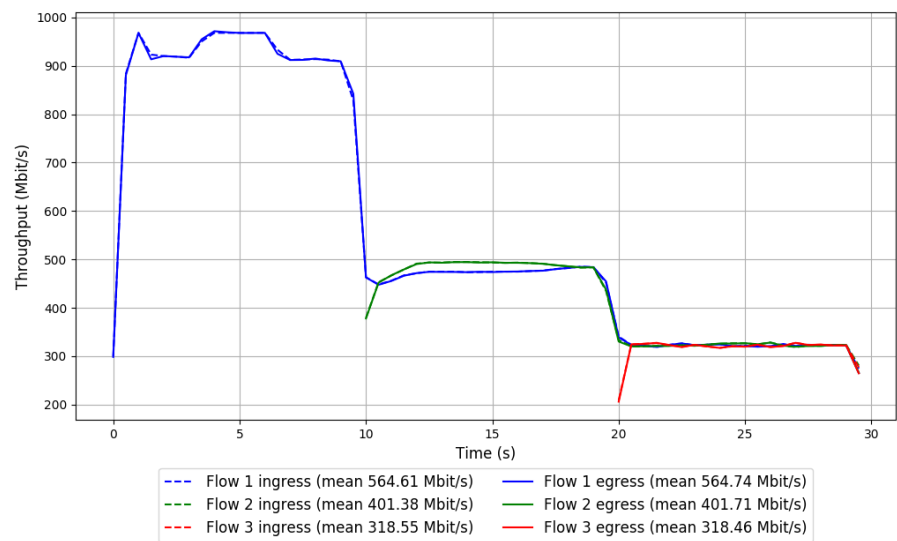
-- Flow 3:

Average throughput: 318.46 Mbit/s

95th percentile per-packet one-way delay: 4.585 ms

Loss rate: 0.25%

Run 10: Report of TCP Cubic — Data Link

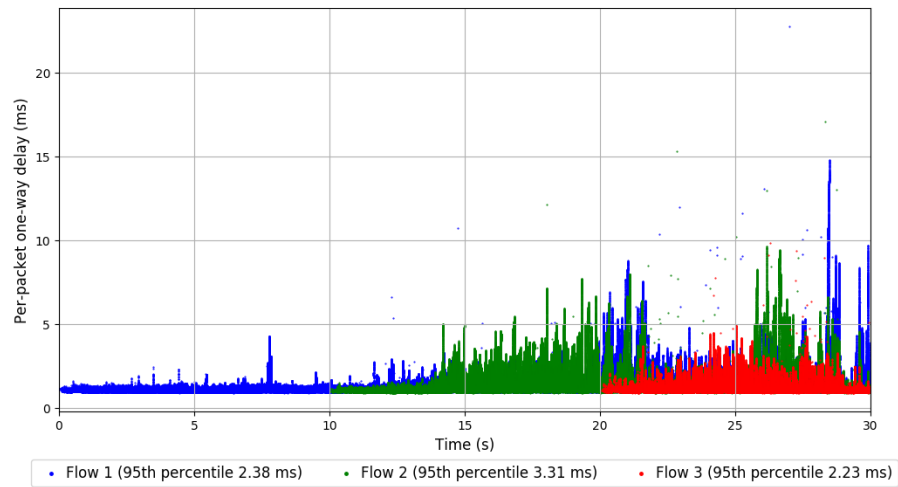
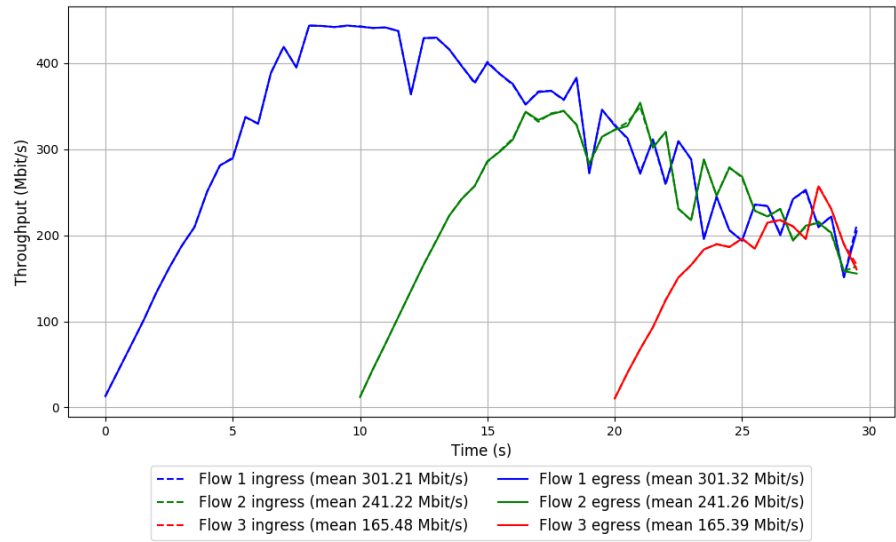


Run 1: Statistics of LEDBAT

Start at: 2017-11-16 07:20:08
End at: 2017-11-16 07:20:38
Local clock offset: 0.82 ms
Remote clock offset: -2.278 ms

Below is generated by plot.py at 2017-11-16 14:49:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 516.29 Mbit/s
95th percentile per-packet one-way delay: 2.692 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 301.32 Mbit/s
95th percentile per-packet one-way delay: 2.385 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 241.26 Mbit/s
95th percentile per-packet one-way delay: 3.312 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 165.39 Mbit/s
95th percentile per-packet one-way delay: 2.232 ms
Loss rate: 0.21%

Run 1: Report of LEDBAT — Data Link

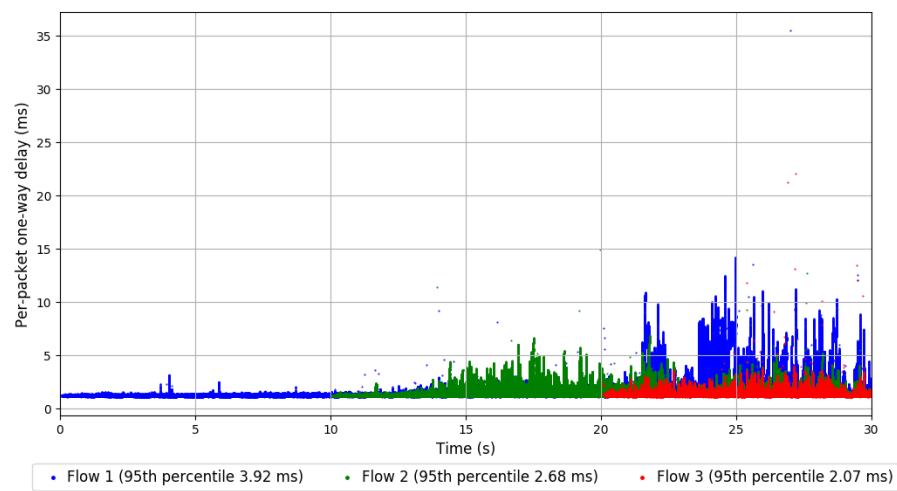
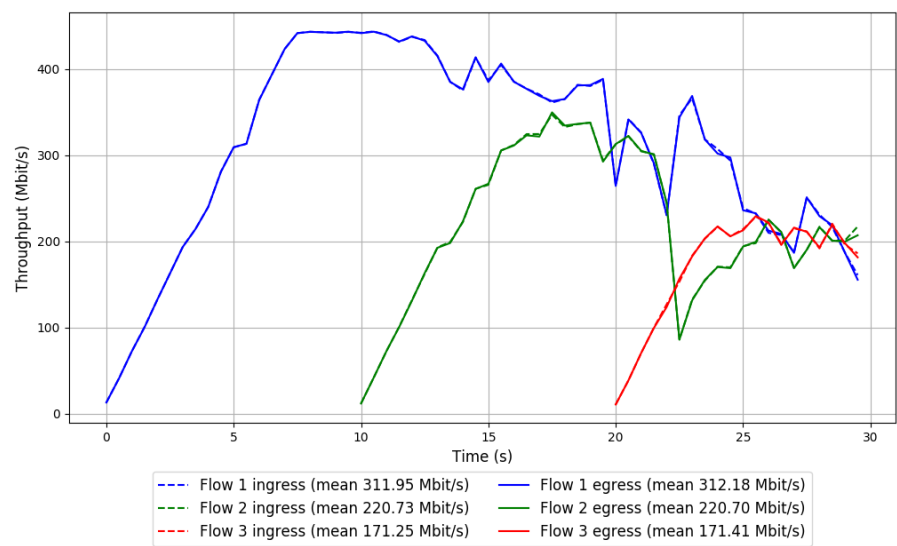


Run 2: Statistics of LEDBAT

Start at: 2017-11-16 07:40:54
End at: 2017-11-16 07:41:24
Local clock offset: 0.75 ms
Remote clock offset: -1.577 ms

Below is generated by plot.py at 2017-11-16 14:49:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 515.47 Mbit/s
95th percentile per-packet one-way delay: 3.046 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 312.18 Mbit/s
95th percentile per-packet one-way delay: 3.920 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 220.70 Mbit/s
95th percentile per-packet one-way delay: 2.681 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 171.41 Mbit/s
95th percentile per-packet one-way delay: 2.068 ms
Loss rate: 0.14%

Run 2: Report of LEDBAT — Data Link

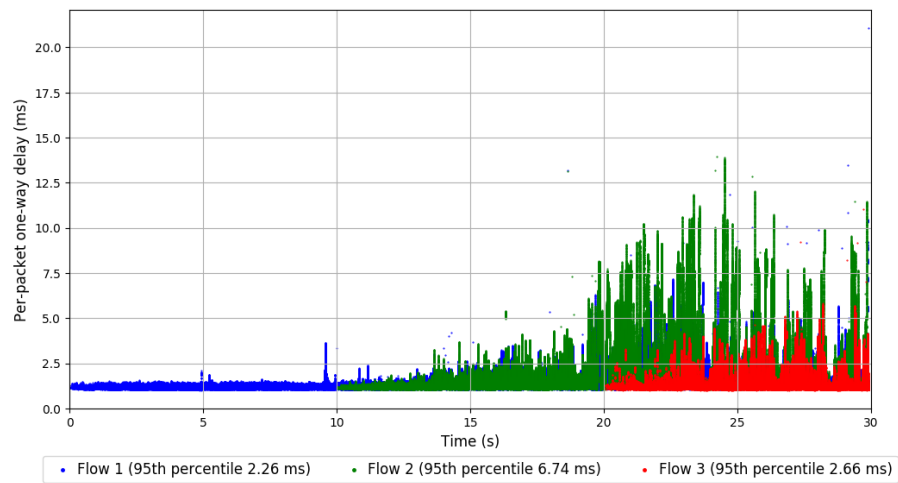
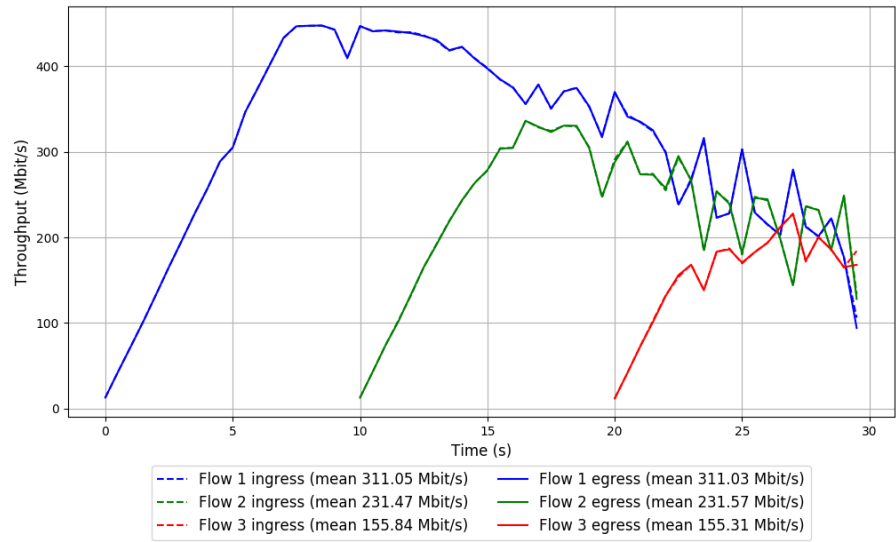


Run 3: Statistics of LEDBAT

Start at: 2017-11-16 08:01:28
End at: 2017-11-16 08:01:58
Local clock offset: 0.726 ms
Remote clock offset: -1.195 ms

Below is generated by plot.py at 2017-11-16 14:49:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 516.44 Mbit/s
95th percentile per-packet one-way delay: 3.911 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 311.03 Mbit/s
95th percentile per-packet one-way delay: 2.259 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 231.57 Mbit/s
95th percentile per-packet one-way delay: 6.736 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 155.31 Mbit/s
95th percentile per-packet one-way delay: 2.660 ms
Loss rate: 0.53%

Run 3: Report of LEDBAT — Data Link

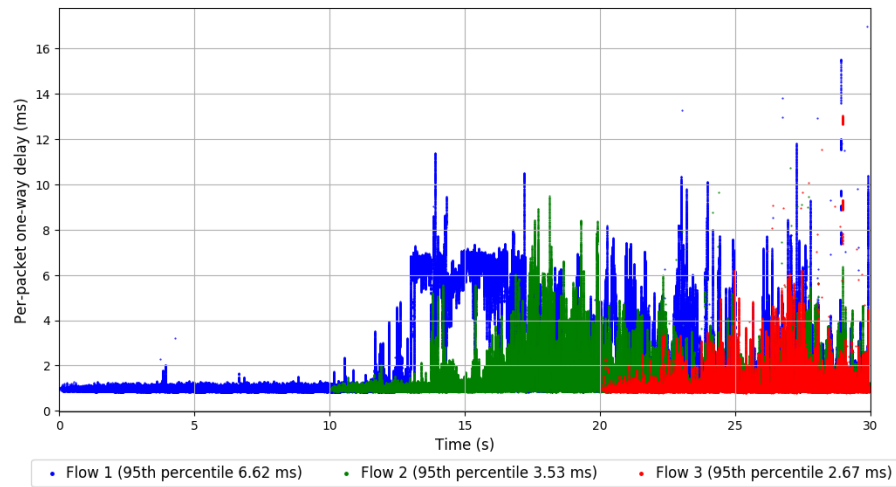
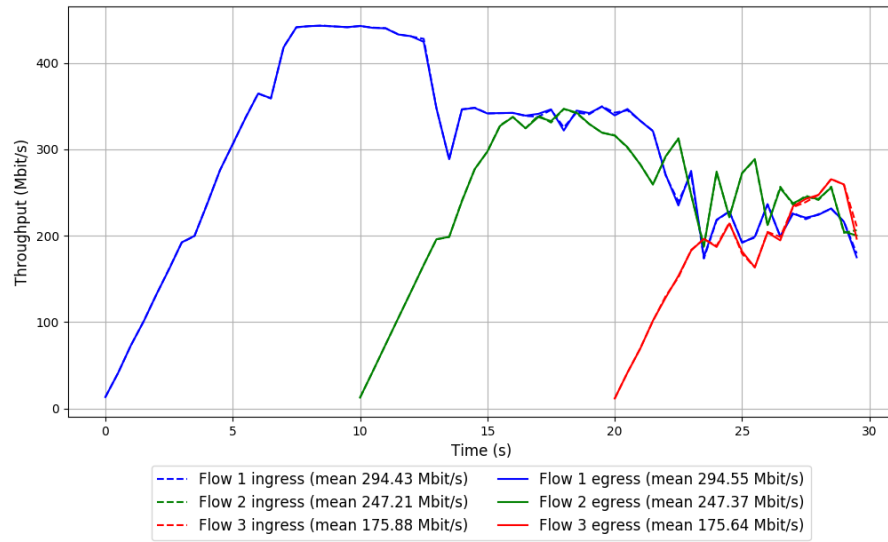


Run 4: Statistics of LEDBAT

Start at: 2017-11-16 08:22:14
End at: 2017-11-16 08:22:44
Local clock offset: 0.809 ms
Remote clock offset: -1.025 ms

Below is generated by plot.py at 2017-11-16 14:49:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 517.07 Mbit/s
95th percentile per-packet one-way delay: 6.411 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 294.55 Mbit/s
95th percentile per-packet one-way delay: 6.623 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 247.37 Mbit/s
95th percentile per-packet one-way delay: 3.528 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 175.64 Mbit/s
95th percentile per-packet one-way delay: 2.675 ms
Loss rate: 0.42%

Run 4: Report of LEDBAT — Data Link

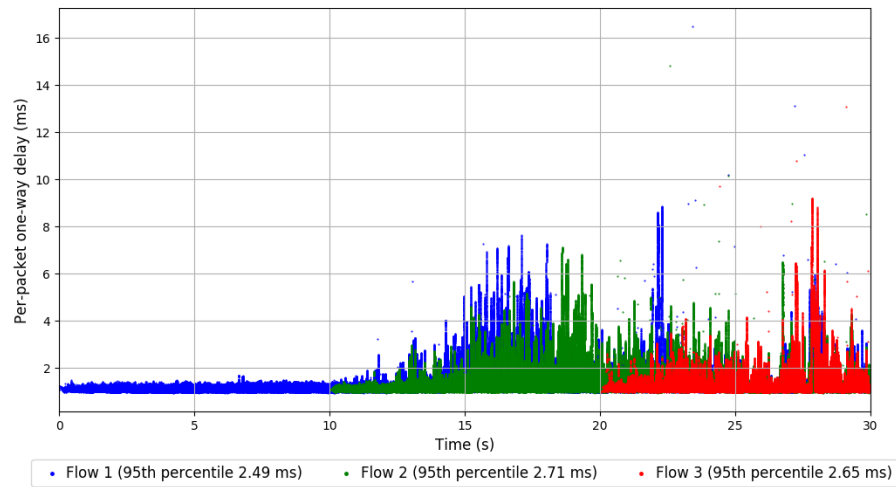
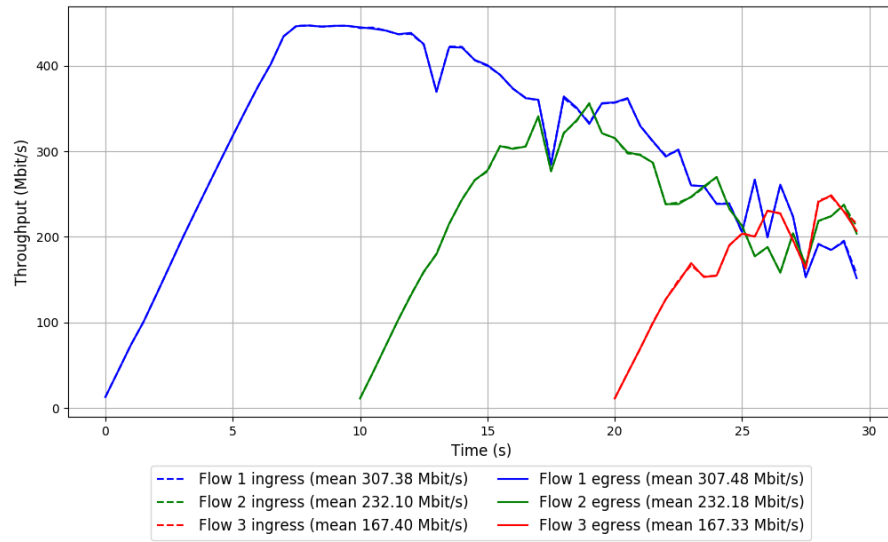


Run 5: Statistics of LEDBAT

Start at: 2017-11-16 08:43:00
End at: 2017-11-16 08:43:30
Local clock offset: 1.072 ms
Remote clock offset: -0.851 ms

Below is generated by plot.py at 2017-11-16 14:51:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 517.08 Mbit/s
95th percentile per-packet one-way delay: 2.577 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 307.48 Mbit/s
95th percentile per-packet one-way delay: 2.489 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 232.18 Mbit/s
95th percentile per-packet one-way delay: 2.714 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 167.33 Mbit/s
95th percentile per-packet one-way delay: 2.652 ms
Loss rate: 0.28%

Run 5: Report of LEDBAT — Data Link

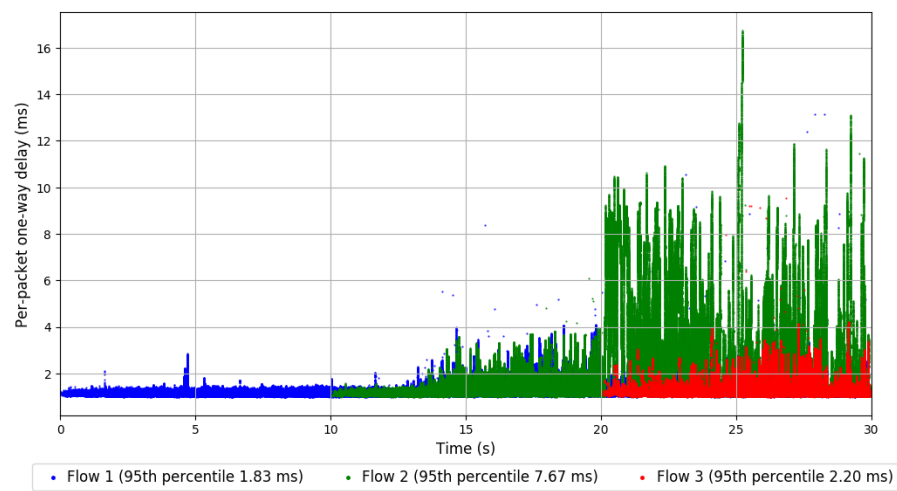
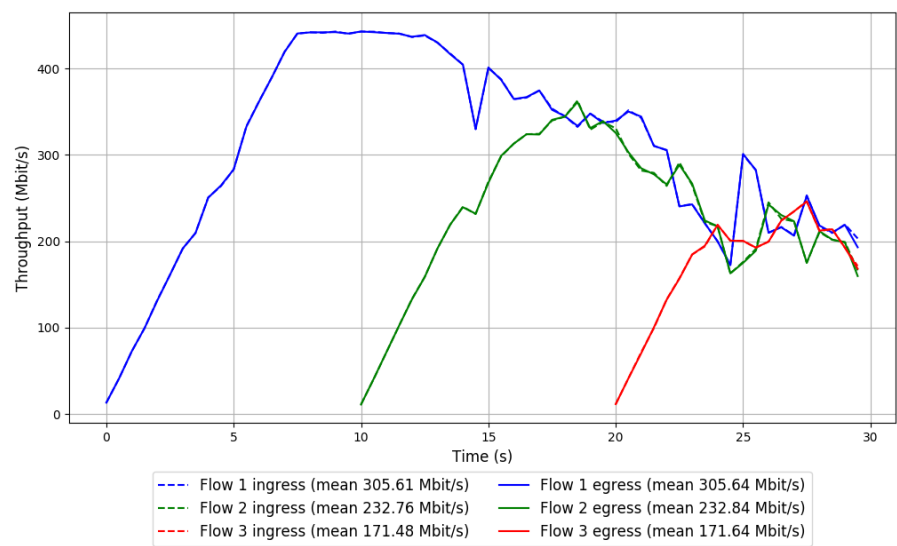


Run 6: Statistics of LEDBAT

Start at: 2017-11-16 09:03:23
End at: 2017-11-16 09:03:53
Local clock offset: 1.226 ms
Remote clock offset: -0.662 ms

Below is generated by plot.py at 2017-11-16 14:51:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 517.10 Mbit/s
95th percentile per-packet one-way delay: 3.935 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 305.64 Mbit/s
95th percentile per-packet one-way delay: 1.831 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 232.84 Mbit/s
95th percentile per-packet one-way delay: 7.669 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 171.64 Mbit/s
95th percentile per-packet one-way delay: 2.201 ms
Loss rate: 0.10%

Run 6: Report of LEDBAT — Data Link

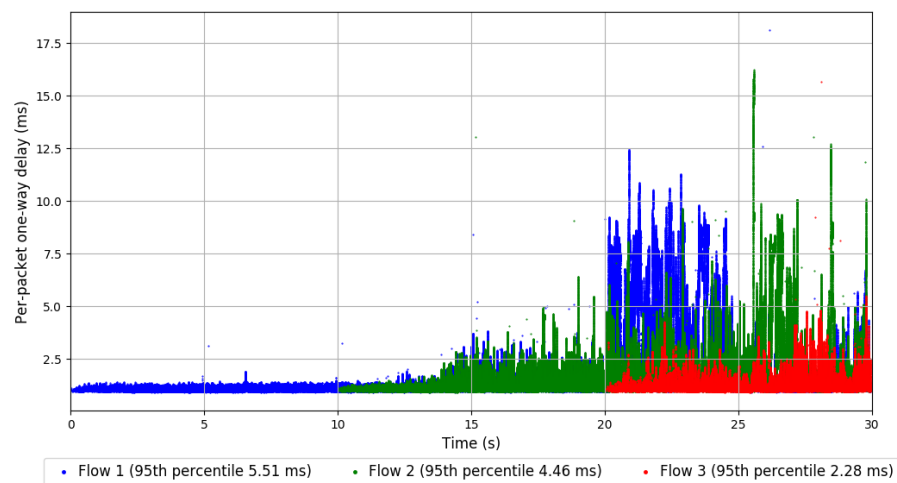
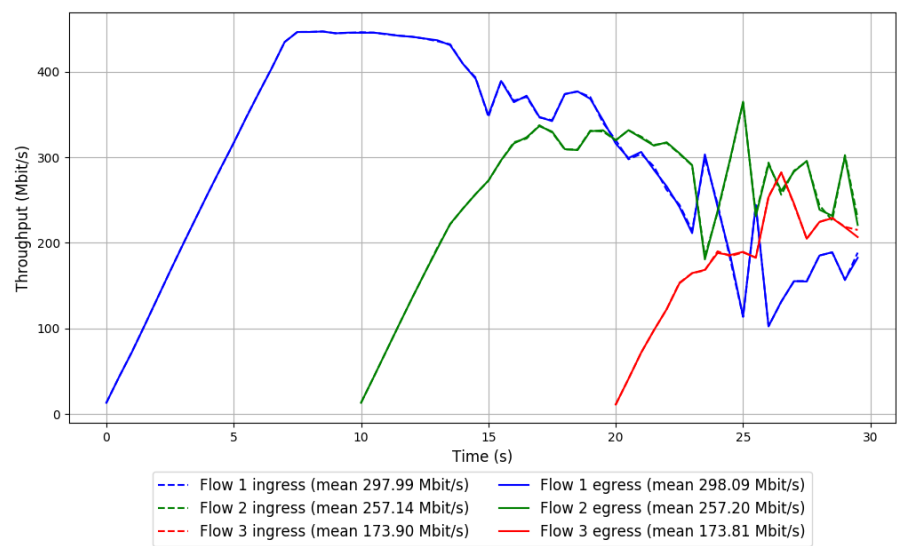


Run 7: Statistics of LEDBAT

Start at: 2017-11-16 09:23:58
End at: 2017-11-16 09:24:28
Local clock offset: 1.125 ms
Remote clock offset: -0.513 ms

Below is generated by plot.py at 2017-11-16 14:52:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 526.68 Mbit/s
95th percentile per-packet one-way delay: 4.618 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 298.09 Mbit/s
95th percentile per-packet one-way delay: 5.508 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 257.20 Mbit/s
95th percentile per-packet one-way delay: 4.460 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 173.81 Mbit/s
95th percentile per-packet one-way delay: 2.278 ms
Loss rate: 0.26%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-16 09:44:05

End at: 2017-11-16 09:44:35

Local clock offset: 1.158 ms

Remote clock offset: 0.063 ms

Below is generated by plot.py at 2017-11-16 14:52:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 533.21 Mbit/s

95th percentile per-packet one-way delay: 3.194 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 313.79 Mbit/s

95th percentile per-packet one-way delay: 2.541 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 235.80 Mbit/s

95th percentile per-packet one-way delay: 4.811 ms

Loss rate: 0.08%

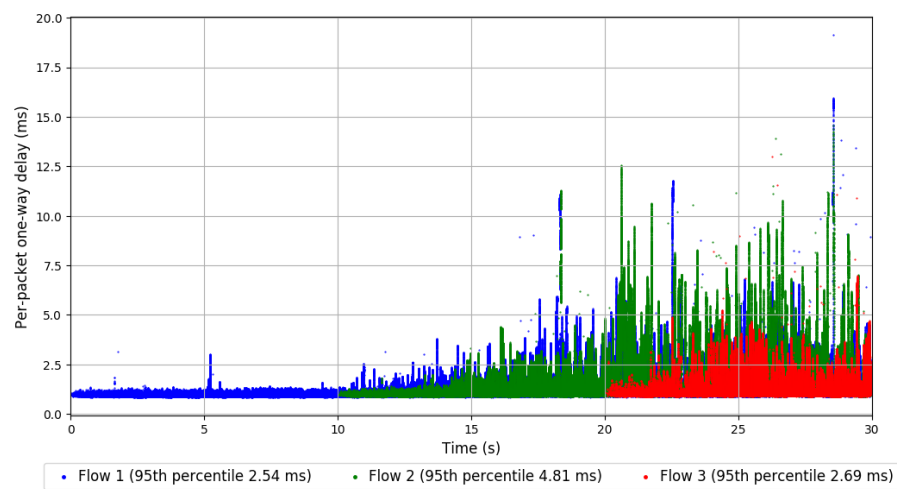
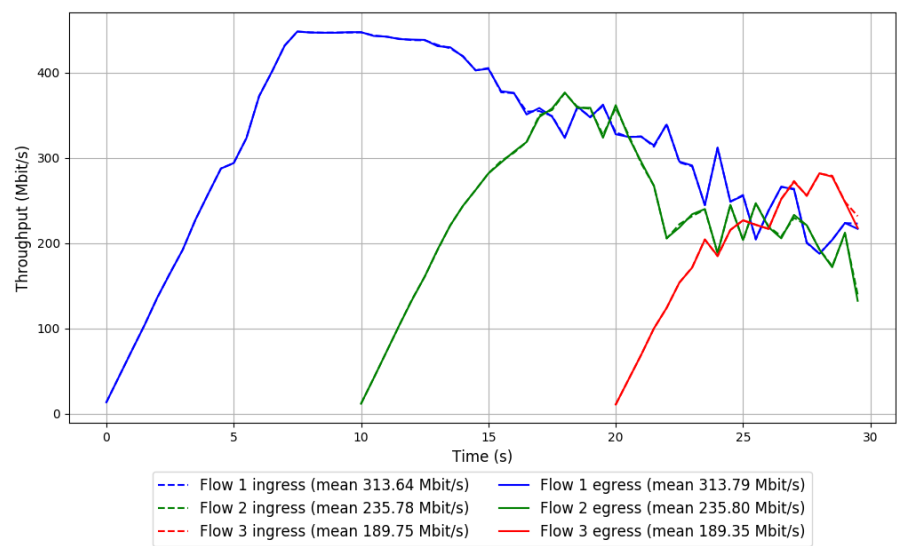
-- Flow 3:

Average throughput: 189.35 Mbit/s

95th percentile per-packet one-way delay: 2.688 ms

Loss rate: 0.41%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-16 10:04:43

End at: 2017-11-16 10:05:13

Local clock offset: 0.99 ms

Remote clock offset: 0.071 ms

Below is generated by plot.py at 2017-11-16 14:53:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 483.11 Mbit/s

95th percentile per-packet one-way delay: 7.618 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 270.15 Mbit/s

95th percentile per-packet one-way delay: 7.743 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 241.81 Mbit/s

95th percentile per-packet one-way delay: 4.206 ms

Loss rate: 0.07%

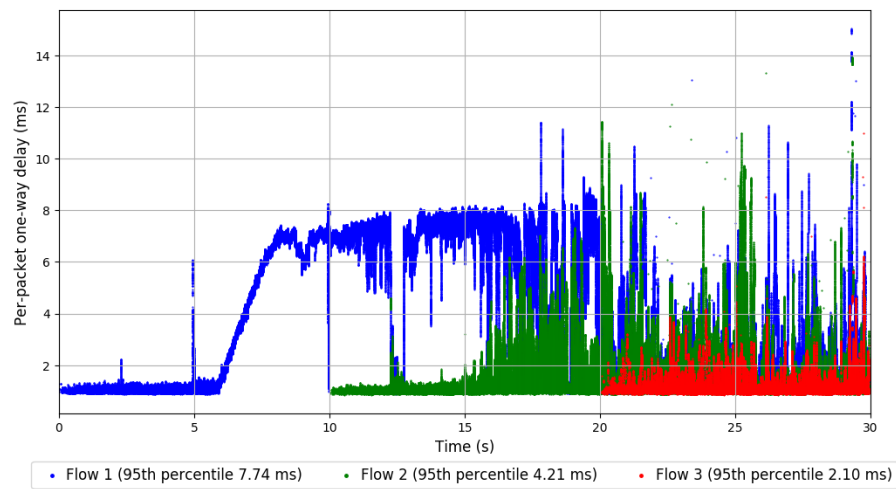
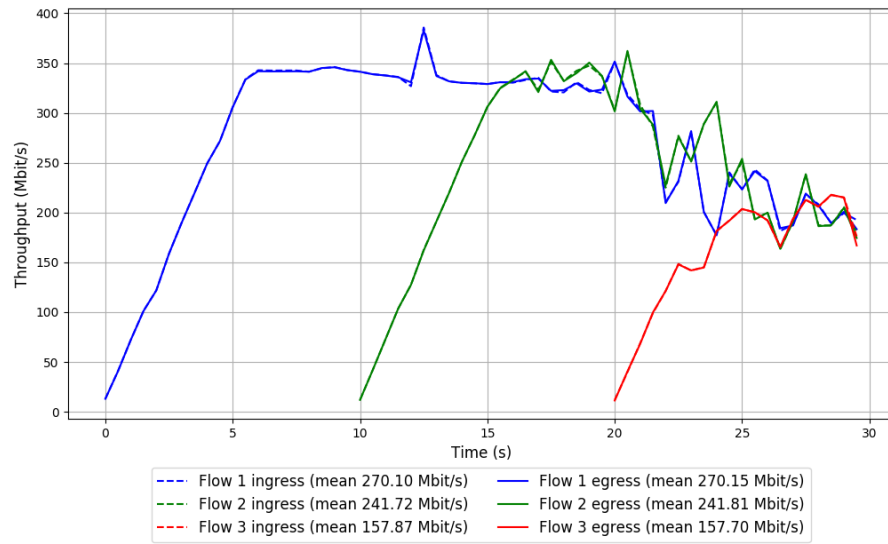
-- Flow 3:

Average throughput: 157.70 Mbit/s

95th percentile per-packet one-way delay: 2.100 ms

Loss rate: 0.30%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-11-16 10:24:55

End at: 2017-11-16 10:25:25

Local clock offset: 0.848 ms

Remote clock offset: 0.111 ms

Below is generated by plot.py at 2017-11-16 14:54:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 522.53 Mbit/s

95th percentile per-packet one-way delay: 2.046 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 293.13 Mbit/s

95th percentile per-packet one-way delay: 1.717 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 251.99 Mbit/s

95th percentile per-packet one-way delay: 2.340 ms

Loss rate: 0.06%

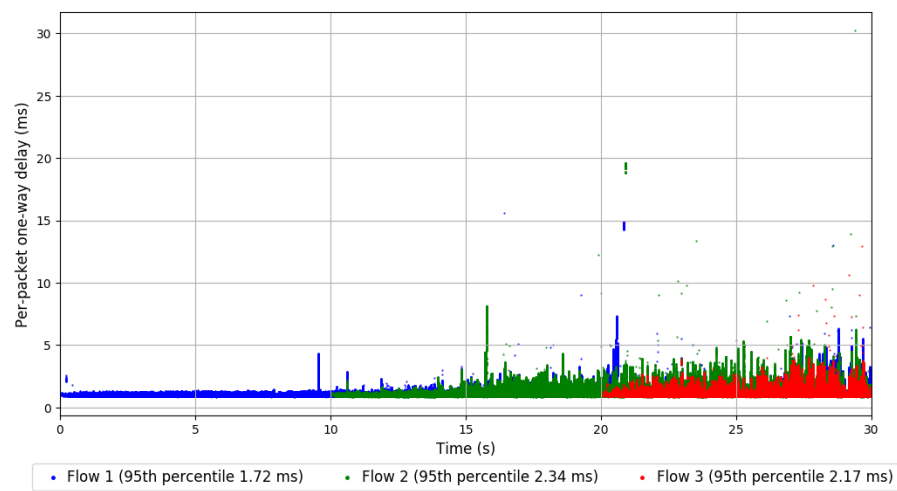
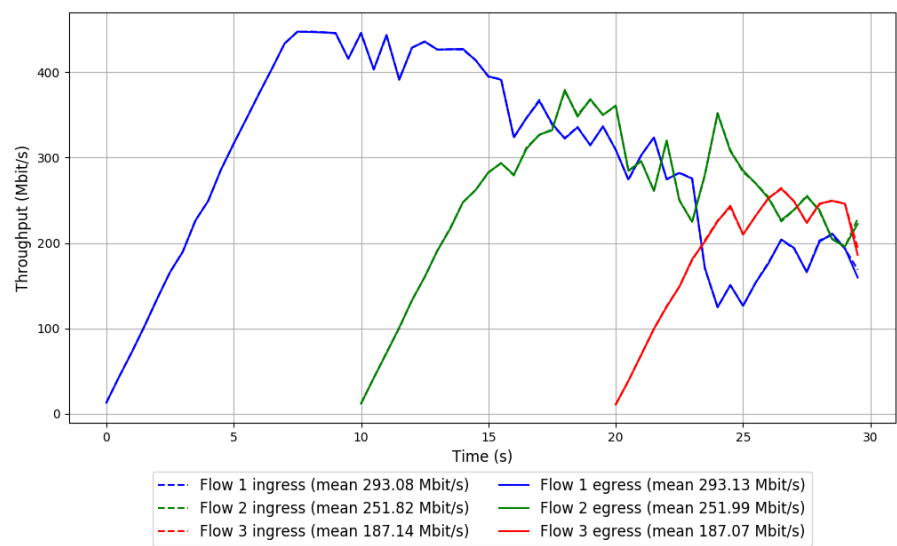
-- Flow 3:

Average throughput: 187.07 Mbit/s

95th percentile per-packet one-way delay: 2.167 ms

Loss rate: 0.24%

Run 10: Report of LEDBAT — Data Link

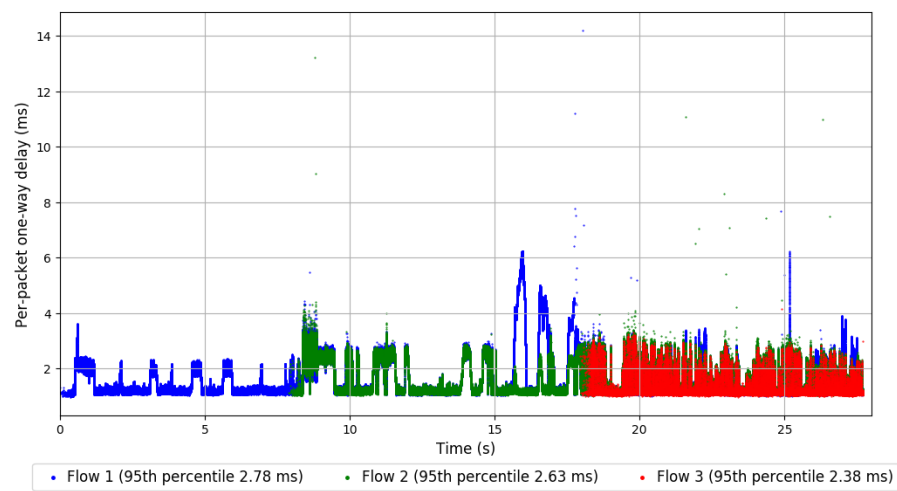
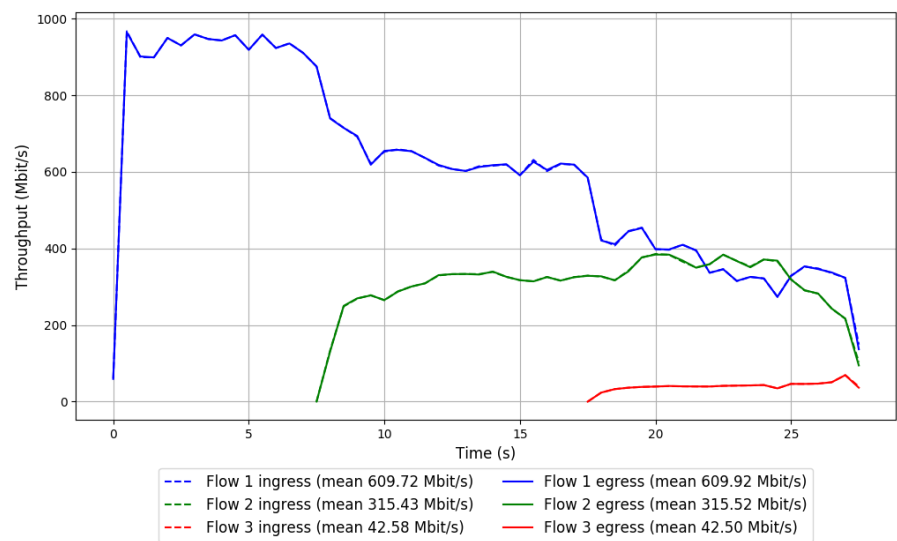


Run 1: Statistics of PCC

Start at: 2017-11-16 07:34:31
End at: 2017-11-16 07:35:01
Local clock offset: 0.8 ms
Remote clock offset: -1.796 ms

Below is generated by plot.py at 2017-11-16 14:59:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 850.54 Mbit/s
95th percentile per-packet one-way delay: 2.700 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 609.92 Mbit/s
95th percentile per-packet one-way delay: 2.776 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 315.52 Mbit/s
95th percentile per-packet one-way delay: 2.631 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 42.50 Mbit/s
95th percentile per-packet one-way delay: 2.385 ms
Loss rate: 0.40%

Run 1: Report of PCC — Data Link

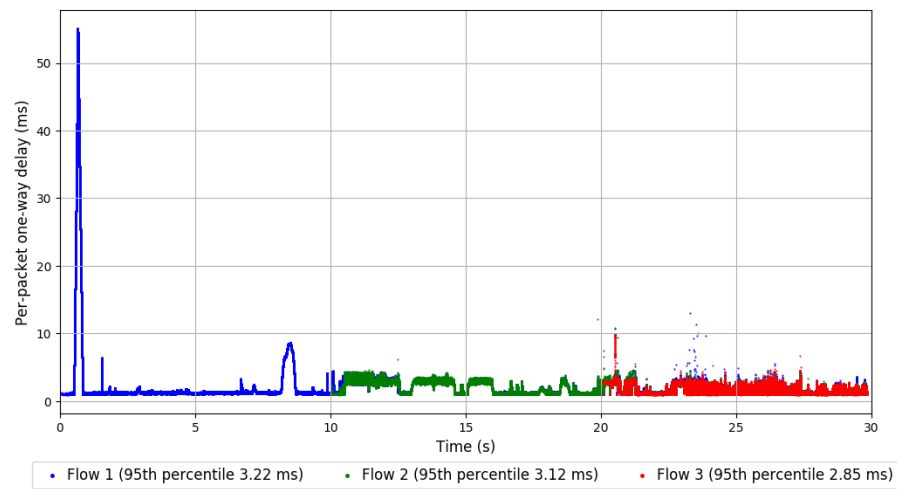
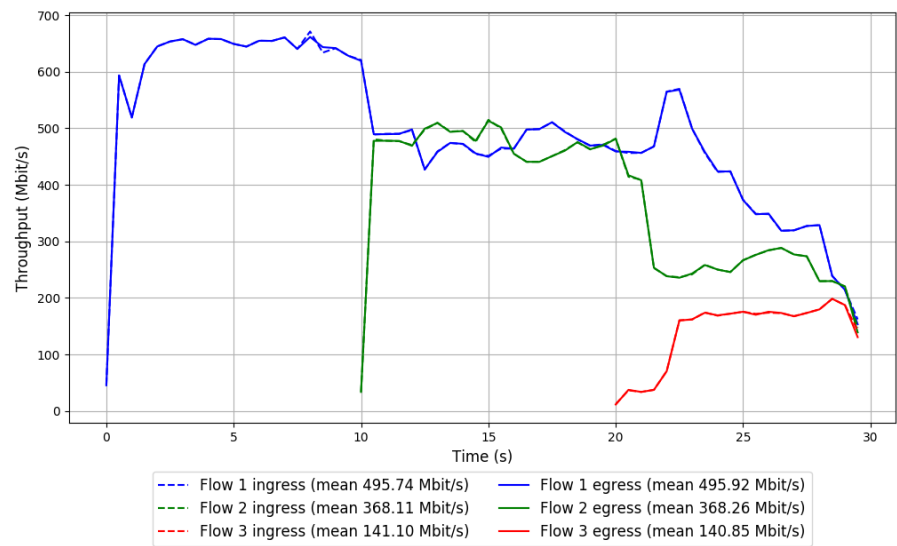


Run 2: Statistics of PCC

Start at: 2017-11-16 07:55:06
End at: 2017-11-16 07:55:36
Local clock offset: 0.696 ms
Remote clock offset: -1.292 ms

Below is generated by plot.py at 2017-11-16 15:00:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 786.82 Mbit/s
95th percentile per-packet one-way delay: 3.153 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 495.92 Mbit/s
95th percentile per-packet one-way delay: 3.222 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 368.26 Mbit/s
95th percentile per-packet one-way delay: 3.119 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 140.85 Mbit/s
95th percentile per-packet one-way delay: 2.853 ms
Loss rate: 0.44%

Run 2: Report of PCC — Data Link

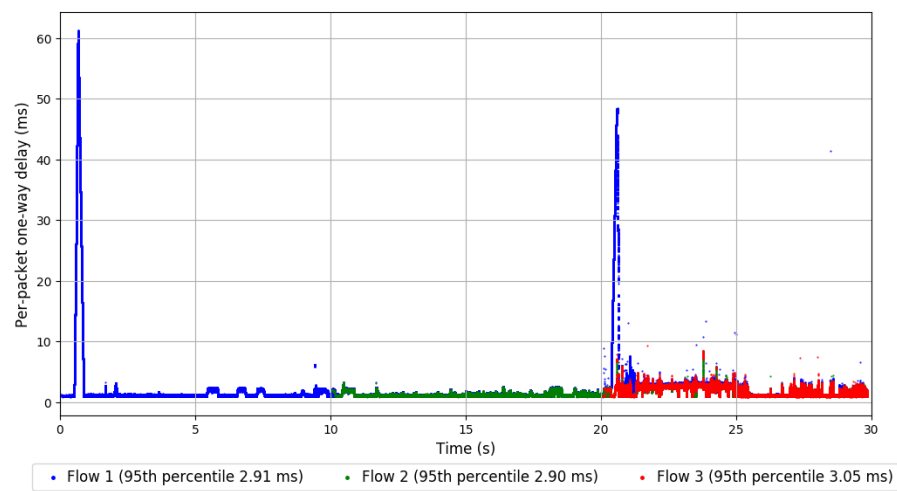
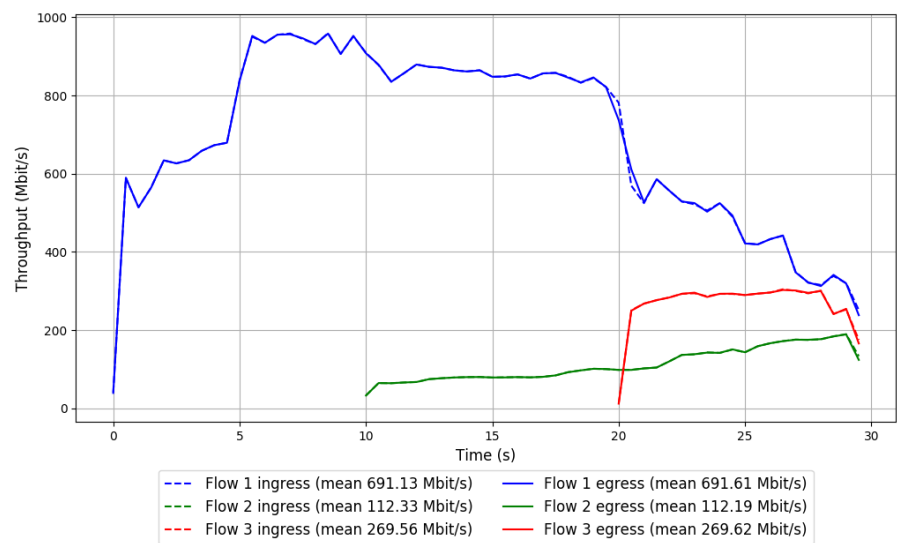


Run 3: Statistics of PCC

Start at: 2017-11-16 08:15:46
End at: 2017-11-16 08:16:16
Local clock offset: 0.833 ms
Remote clock offset: -1.062 ms

Below is generated by plot.py at 2017-11-16 15:04:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 854.69 Mbit/s
95th percentile per-packet one-way delay: 2.930 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 691.61 Mbit/s
95th percentile per-packet one-way delay: 2.906 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 112.19 Mbit/s
95th percentile per-packet one-way delay: 2.901 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 269.62 Mbit/s
95th percentile per-packet one-way delay: 3.052 ms
Loss rate: 0.18%

Run 3: Report of PCC — Data Link

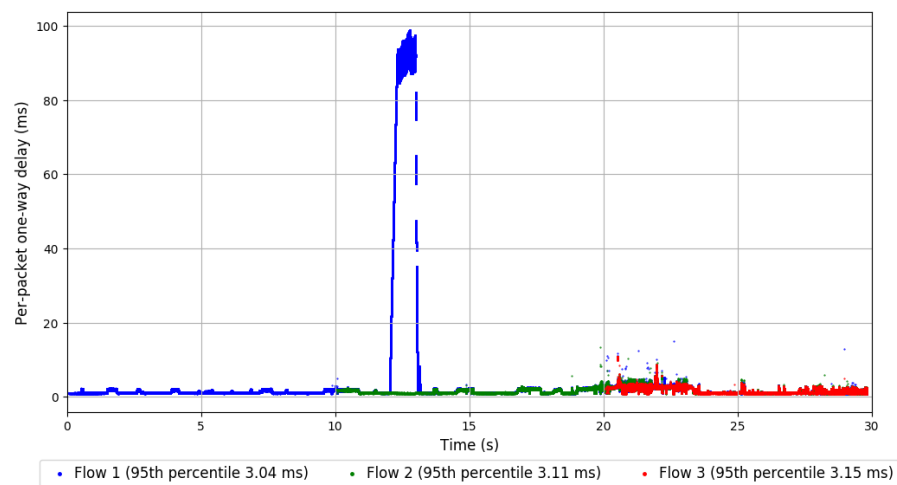
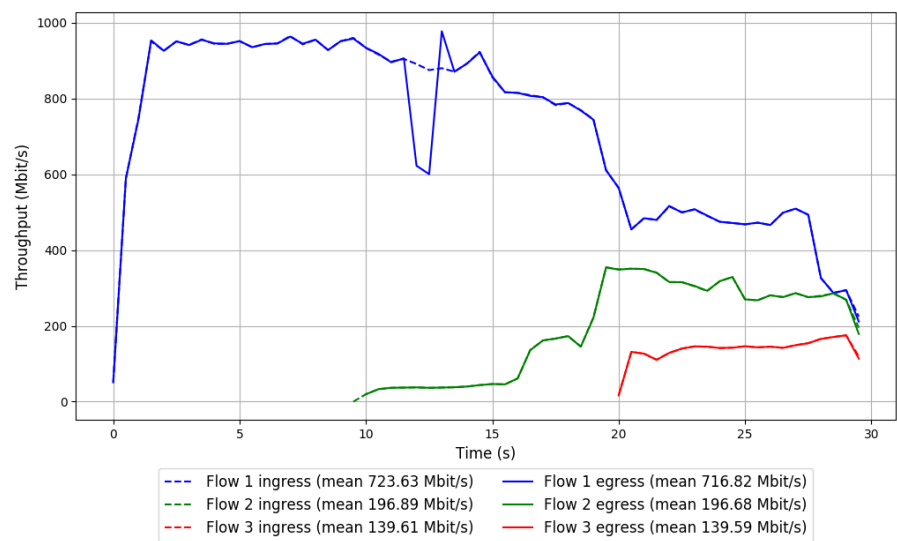


Run 4: Statistics of PCC

Start at: 2017-11-16 08:36:36
End at: 2017-11-16 08:37:06
Local clock offset: 1.002 ms
Remote clock offset: -0.852 ms

Below is generated by plot.py at 2017-11-16 15:05:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 893.35 Mbit/s
95th percentile per-packet one-way delay: 3.073 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 716.82 Mbit/s
95th percentile per-packet one-way delay: 3.036 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 196.68 Mbit/s
95th percentile per-packet one-way delay: 3.108 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 139.59 Mbit/s
95th percentile per-packet one-way delay: 3.152 ms
Loss rate: 0.23%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

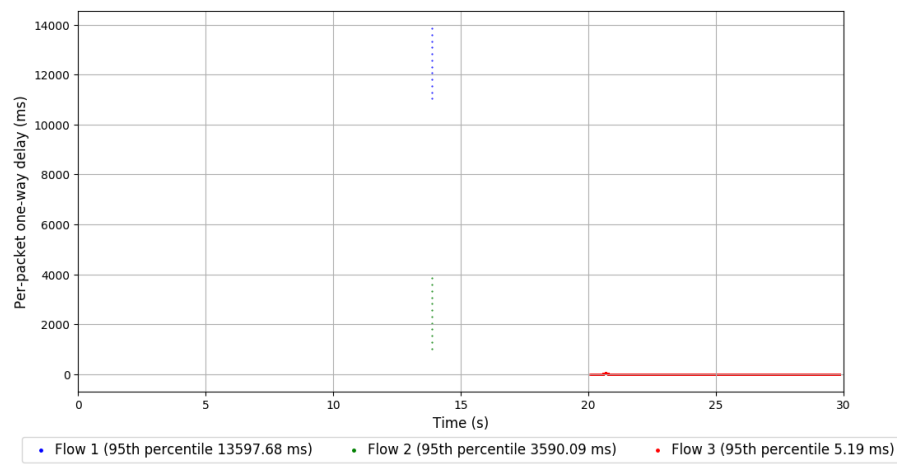
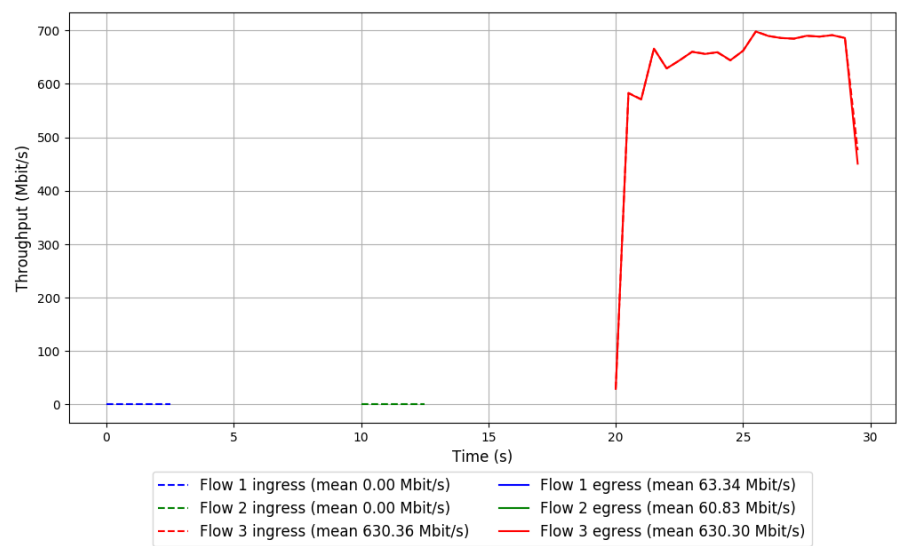
Start at: 2017-11-16 08:57:17

End at: 2017-11-16 08:57:47

Local clock offset: 1.132 ms

Remote clock offset: -0.527 ms

Run 5: Report of PCC — Data Link

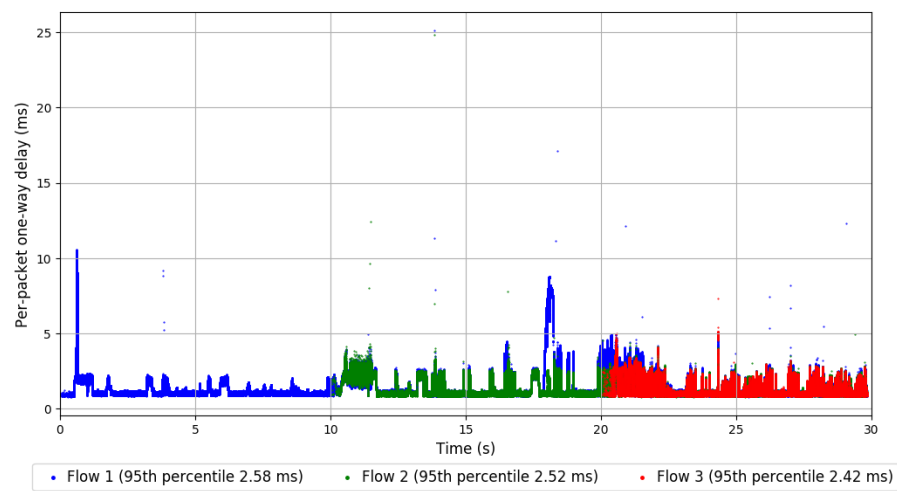
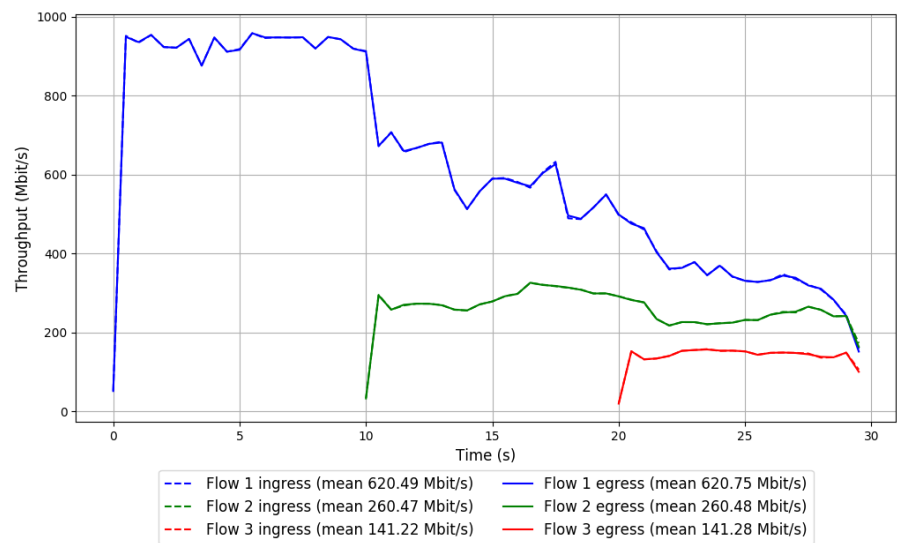


Run 6: Statistics of PCC

Start at: 2017-11-16 09:17:37
End at: 2017-11-16 09:18:07
Local clock offset: 1.107 ms
Remote clock offset: -0.435 ms

Below is generated by plot.py at 2017-11-16 15:05:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 840.31 Mbit/s
95th percentile per-packet one-way delay: 2.549 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 620.75 Mbit/s
95th percentile per-packet one-way delay: 2.577 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 260.48 Mbit/s
95th percentile per-packet one-way delay: 2.521 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 141.28 Mbit/s
95th percentile per-packet one-way delay: 2.425 ms
Loss rate: 0.21%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

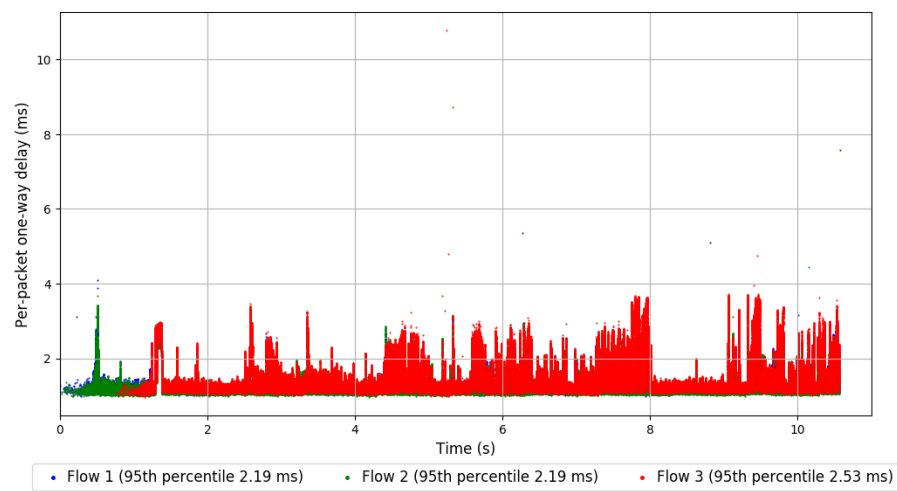
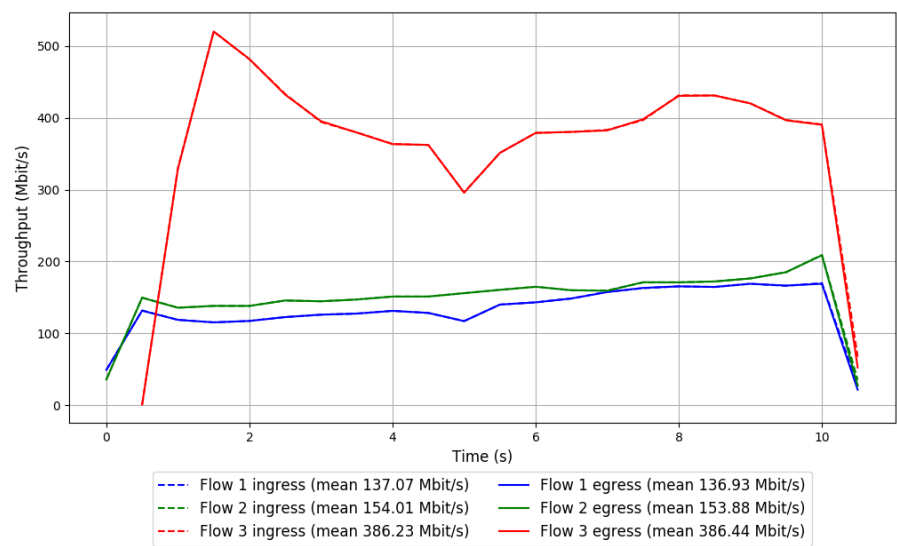
Start at: 2017-11-16 09:38:06

End at: 2017-11-16 09:38:36

Local clock offset: 1.27 ms

Remote clock offset: -0.124 ms

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-11-16 09:58:17

End at: 2017-11-16 09:58:47

Local clock offset: 1.099 ms

Remote clock offset: 0.057 ms

Below is generated by plot.py at 2017-11-16 15:07:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 854.39 Mbit/s

95th percentile per-packet one-way delay: 2.757 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 638.57 Mbit/s

95th percentile per-packet one-way delay: 2.742 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 305.75 Mbit/s

95th percentile per-packet one-way delay: 2.798 ms

Loss rate: 0.11%

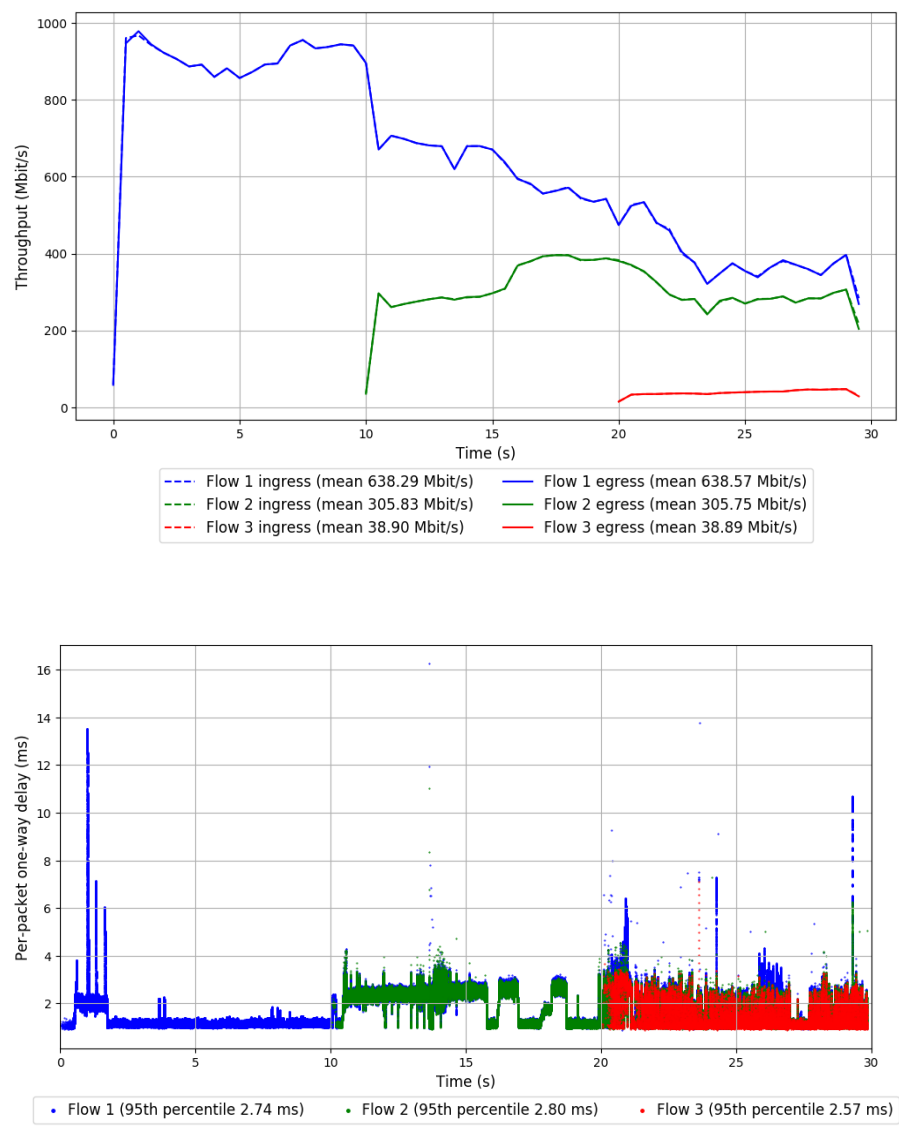
-- Flow 3:

Average throughput: 38.89 Mbit/s

95th percentile per-packet one-way delay: 2.572 ms

Loss rate: 0.23%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

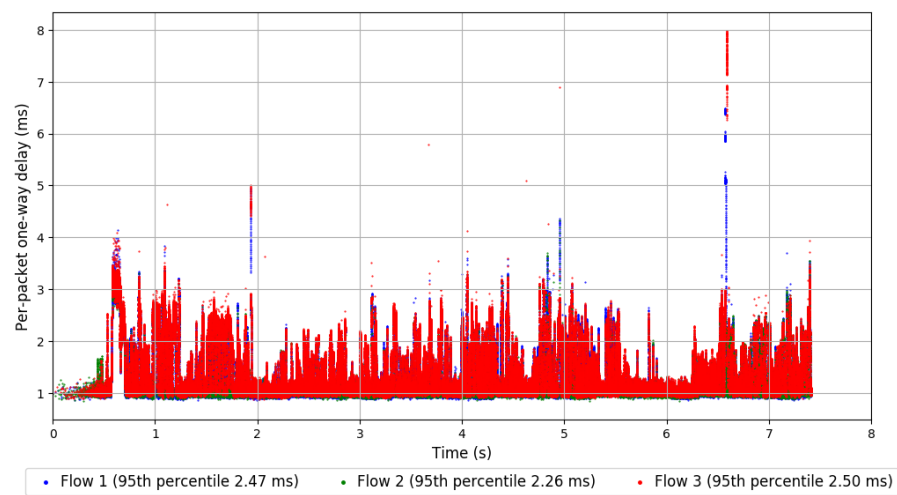
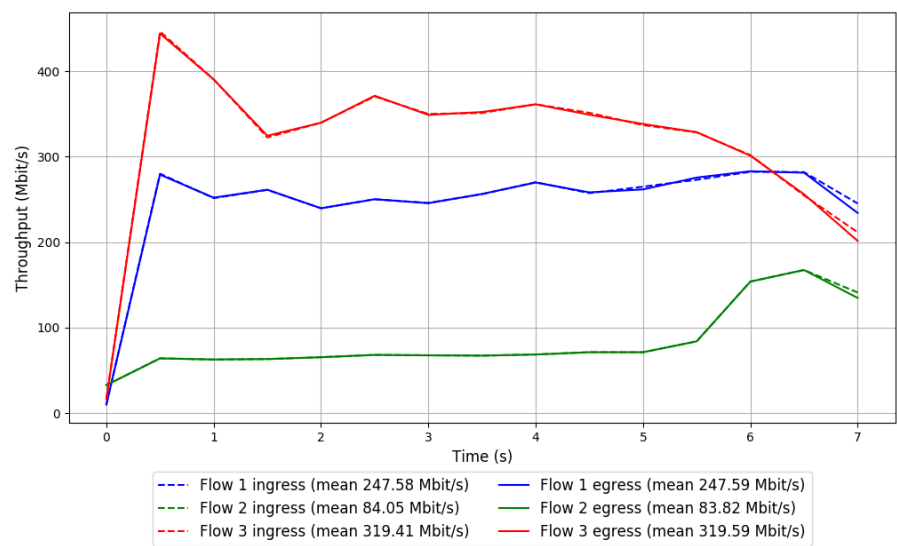
Start at: 2017-11-16 10:18:46

End at: 2017-11-16 10:19:16

Local clock offset: 0.848 ms

Remote clock offset: 0.052 ms

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

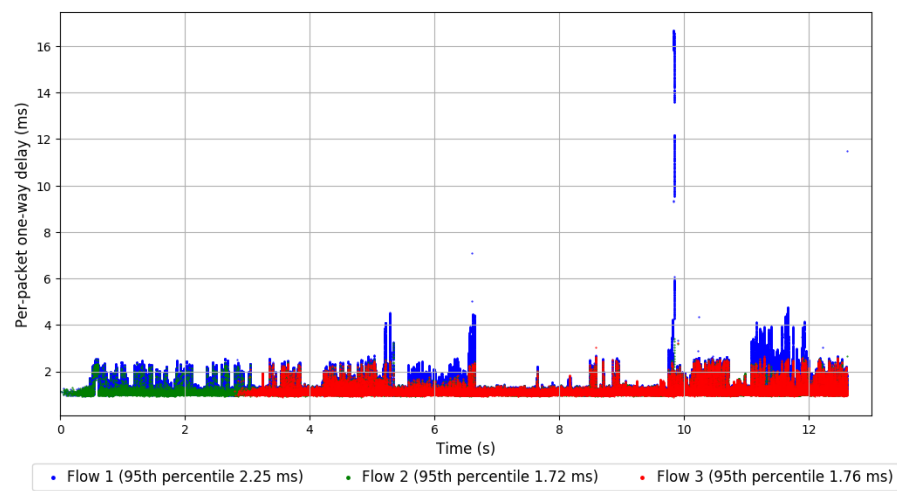
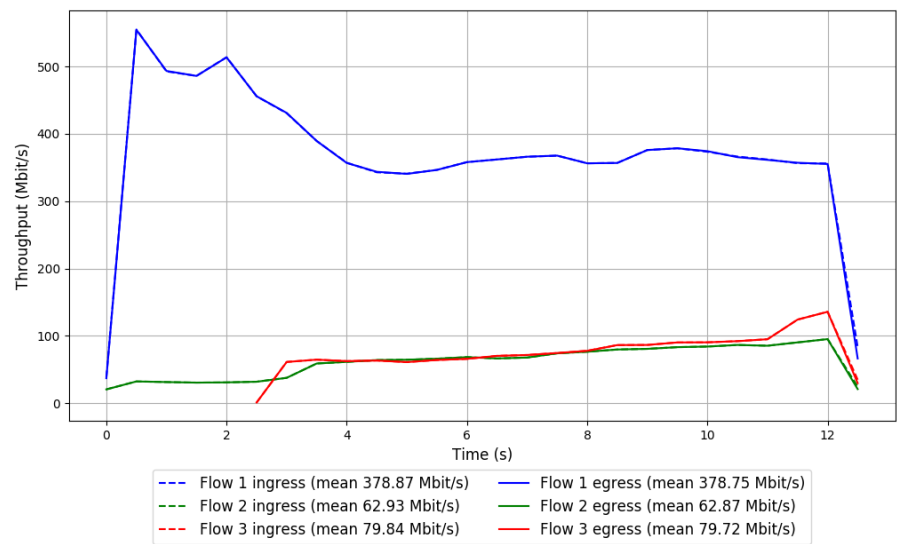
Start at: 2017-11-16 10:39:08

End at: 2017-11-16 10:39:38

Local clock offset: 0.991 ms

Remote clock offset: 0.125 ms

Run 10: Report of PCC — Data Link

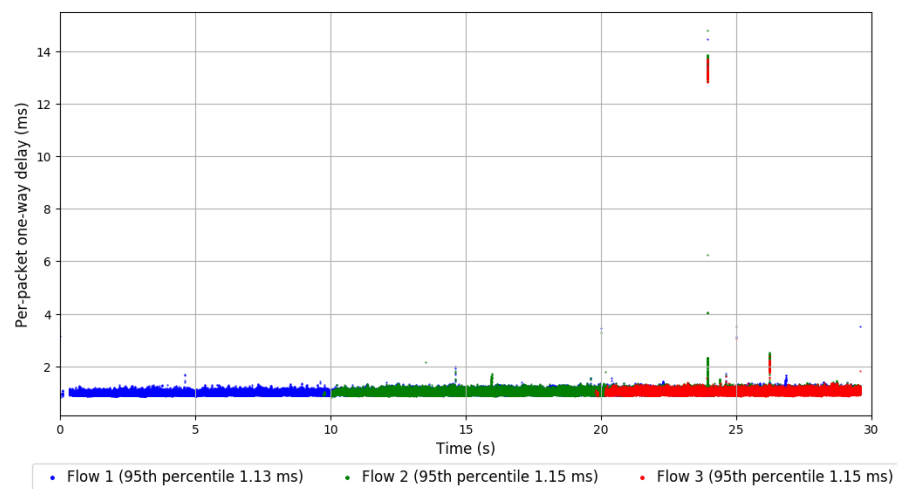
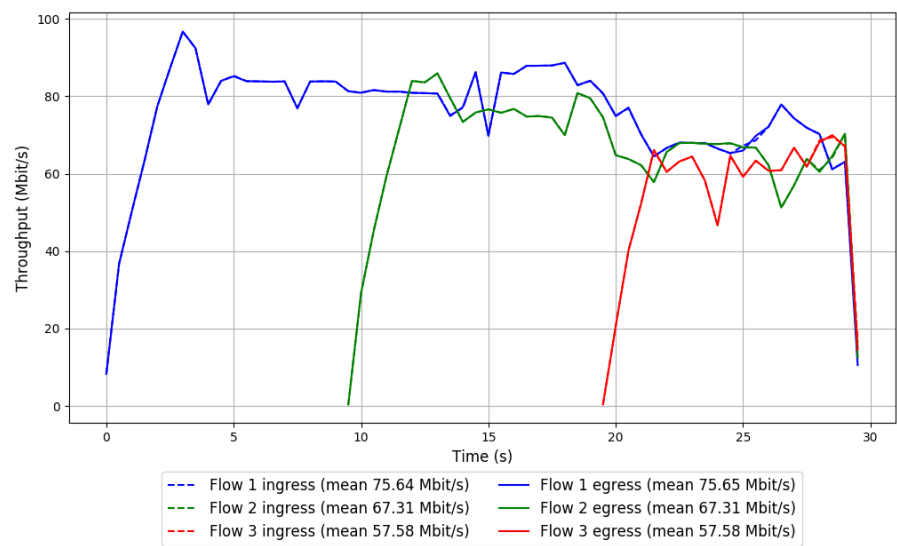


Run 1: Statistics of QUIC Cubic

Start at: 2017-11-16 07:25:58
End at: 2017-11-16 07:26:28
Local clock offset: 0.786 ms
Remote clock offset: -2.047 ms

Below is generated by plot.py at 2017-11-16 15:07:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 139.93 Mbit/s
95th percentile per-packet one-way delay: 1.140 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 75.65 Mbit/s
95th percentile per-packet one-way delay: 1.132 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 67.31 Mbit/s
95th percentile per-packet one-way delay: 1.148 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 57.58 Mbit/s
95th percentile per-packet one-way delay: 1.147 ms
Loss rate: 0.23%

Run 1: Report of QUIC Cubic — Data Link

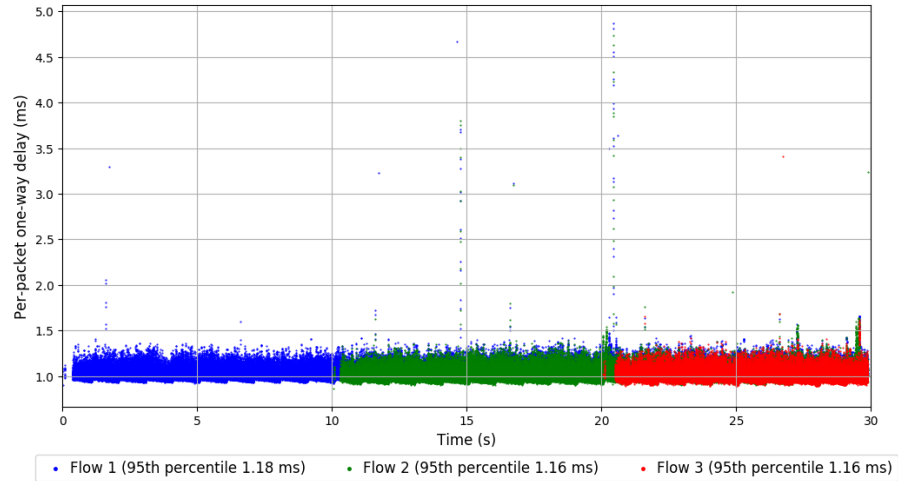
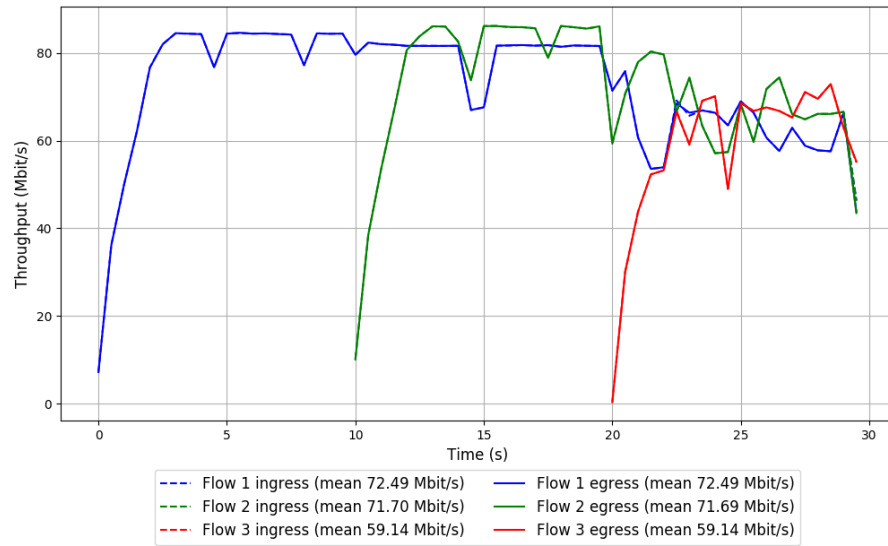


Run 2: Statistics of QUIC Cubic

Start at: 2017-11-16 07:46:38
End at: 2017-11-16 07:47:08
Local clock offset: 0.633 ms
Remote clock offset: -1.351 ms

Below is generated by plot.py at 2017-11-16 15:07:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 139.56 Mbit/s
95th percentile per-packet one-way delay: 1.170 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 72.49 Mbit/s
95th percentile per-packet one-way delay: 1.178 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 71.69 Mbit/s
95th percentile per-packet one-way delay: 1.161 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 59.14 Mbit/s
95th percentile per-packet one-way delay: 1.157 ms
Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link

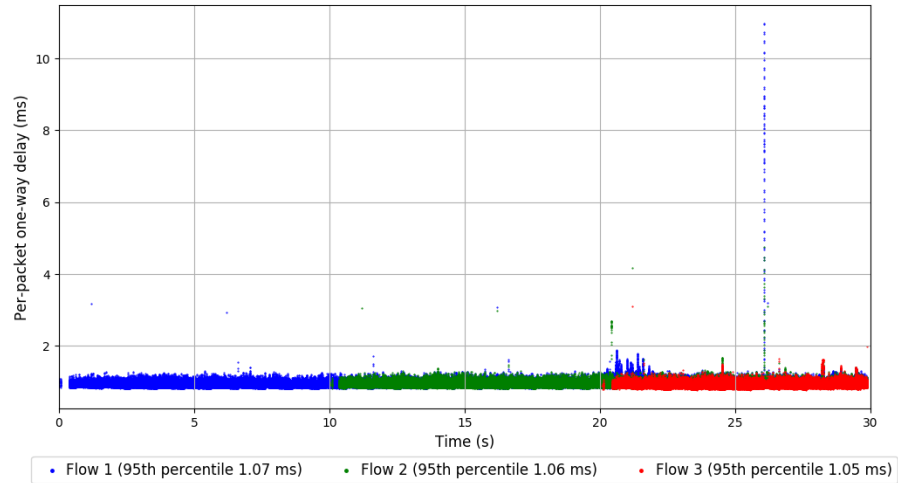
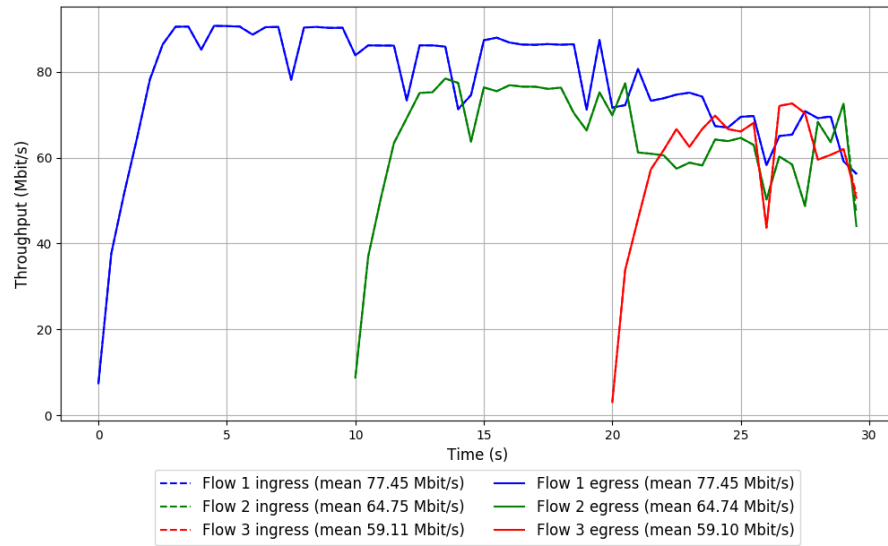


Run 3: Statistics of QUIC Cubic

Start at: 2017-11-16 08:07:17
End at: 2017-11-16 08:07:47
Local clock offset: 0.644 ms
Remote clock offset: -1.025 ms

Below is generated by plot.py at 2017-11-16 15:07:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 139.86 Mbit/s
95th percentile per-packet one-way delay: 1.067 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 77.45 Mbit/s
95th percentile per-packet one-way delay: 1.073 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 64.74 Mbit/s
95th percentile per-packet one-way delay: 1.065 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 59.10 Mbit/s
95th percentile per-packet one-way delay: 1.047 ms
Loss rate: 0.10%

Run 3: Report of QUIC Cubic — Data Link

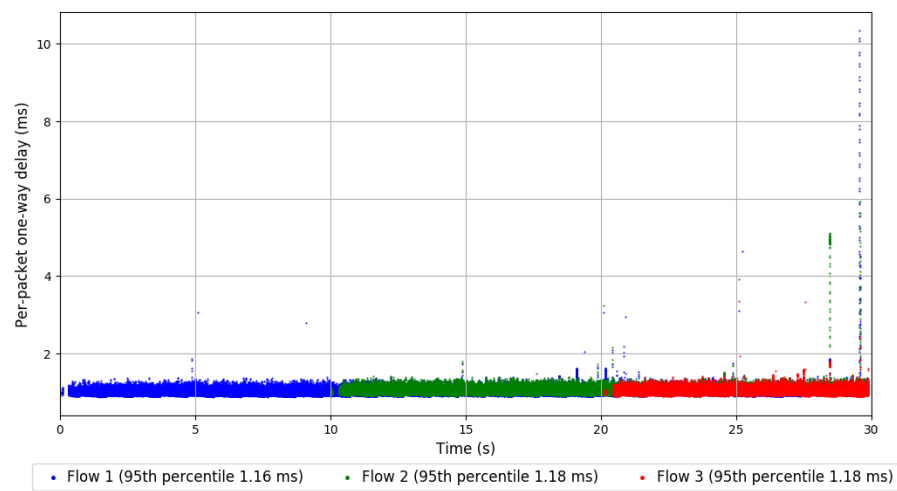
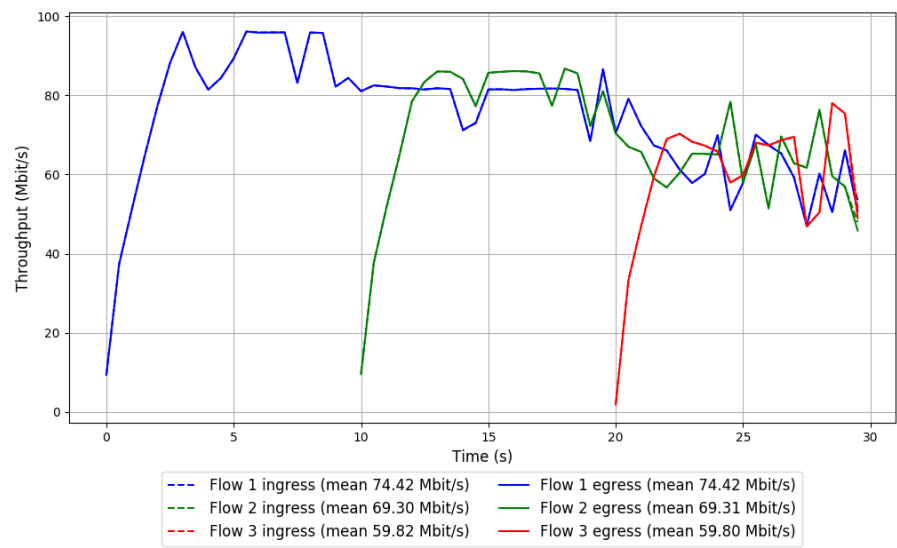


Run 4: Statistics of QUIC Cubic

Start at: 2017-11-16 08:28:04
End at: 2017-11-16 08:28:34
Local clock offset: 0.981 ms
Remote clock offset: -0.972 ms

Below is generated by plot.py at 2017-11-16 15:07:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 140.14 Mbit/s
95th percentile per-packet one-way delay: 1.169 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 74.42 Mbit/s
95th percentile per-packet one-way delay: 1.158 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 69.31 Mbit/s
95th percentile per-packet one-way delay: 1.181 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 59.80 Mbit/s
95th percentile per-packet one-way delay: 1.175 ms
Loss rate: 0.23%

Run 4: Report of QUIC Cubic — Data Link

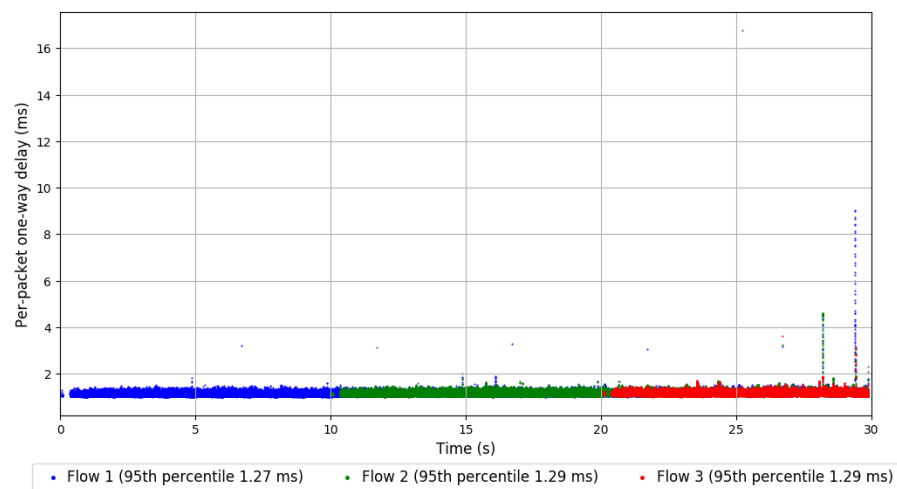
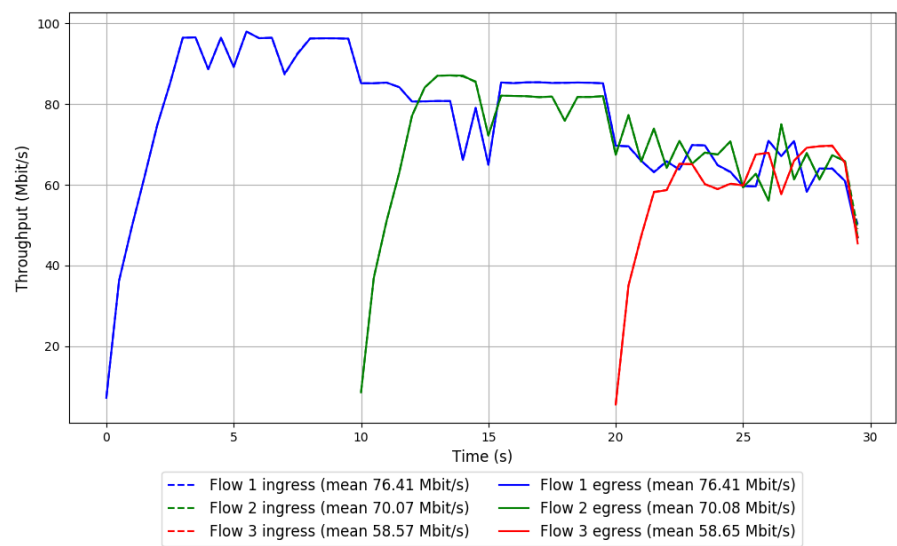


Run 5: Statistics of QUIC Cubic

Start at: 2017-11-16 08:48:47
End at: 2017-11-16 08:49:17
Local clock offset: 1.189 ms
Remote clock offset: -0.772 ms

Below is generated by plot.py at 2017-11-16 15:07:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 142.29 Mbit/s
95th percentile per-packet one-way delay: 1.280 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 76.41 Mbit/s
95th percentile per-packet one-way delay: 1.273 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 70.08 Mbit/s
95th percentile per-packet one-way delay: 1.287 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 58.65 Mbit/s
95th percentile per-packet one-way delay: 1.287 ms
Loss rate: 0.14%

Run 5: Report of QUIC Cubic — Data Link

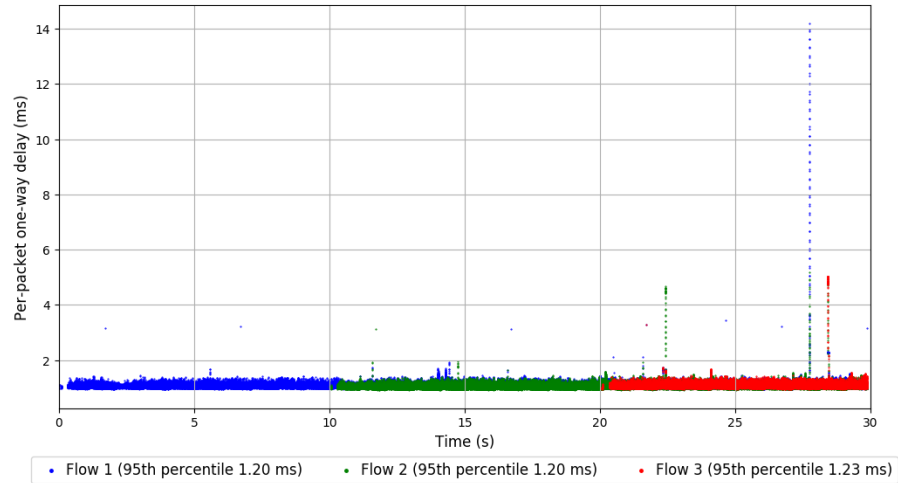
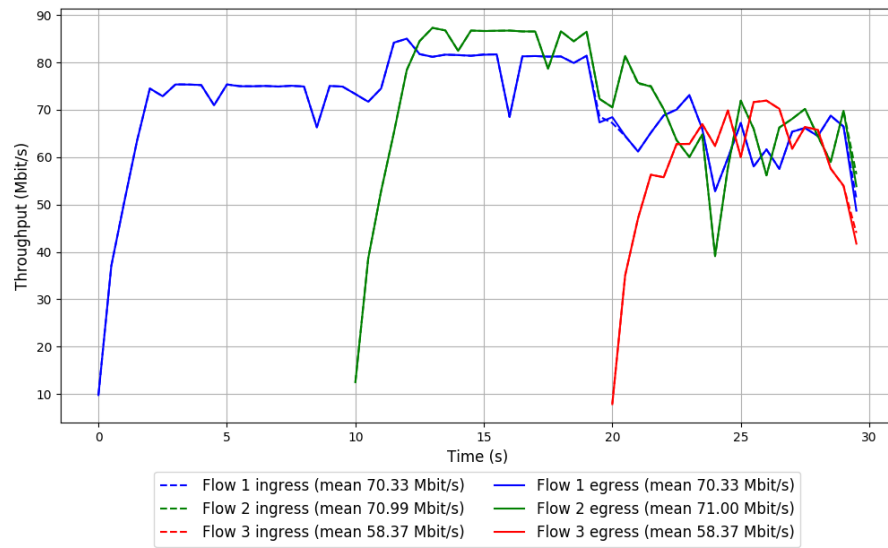


Run 6: Statistics of QUIC Cubic

Start at: 2017-11-16 09:09:12
End at: 2017-11-16 09:09:42
Local clock offset: 1.162 ms
Remote clock offset: -0.586 ms

Below is generated by plot.py at 2017-11-16 15:07:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 136.74 Mbit/s
95th percentile per-packet one-way delay: 1.206 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 70.33 Mbit/s
95th percentile per-packet one-way delay: 1.204 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 71.00 Mbit/s
95th percentile per-packet one-way delay: 1.196 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 58.37 Mbit/s
95th percentile per-packet one-way delay: 1.229 ms
Loss rate: 0.20%

Run 6: Report of QUIC Cubic — Data Link

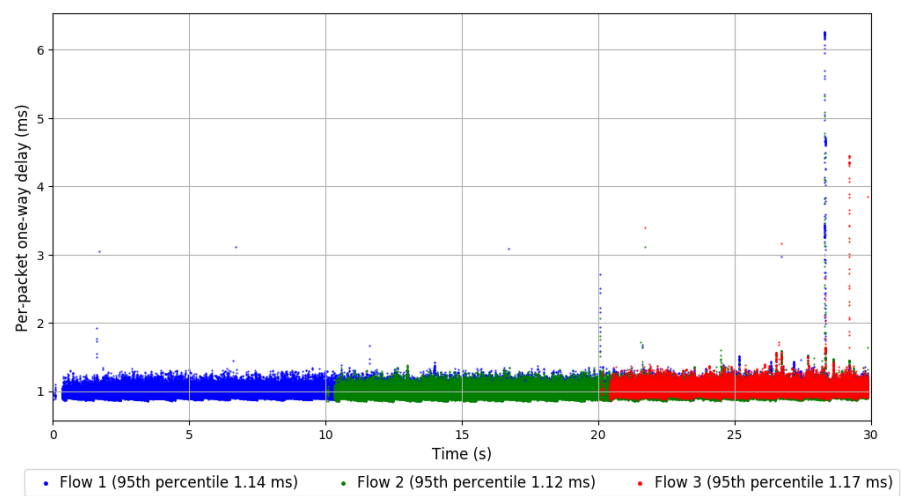
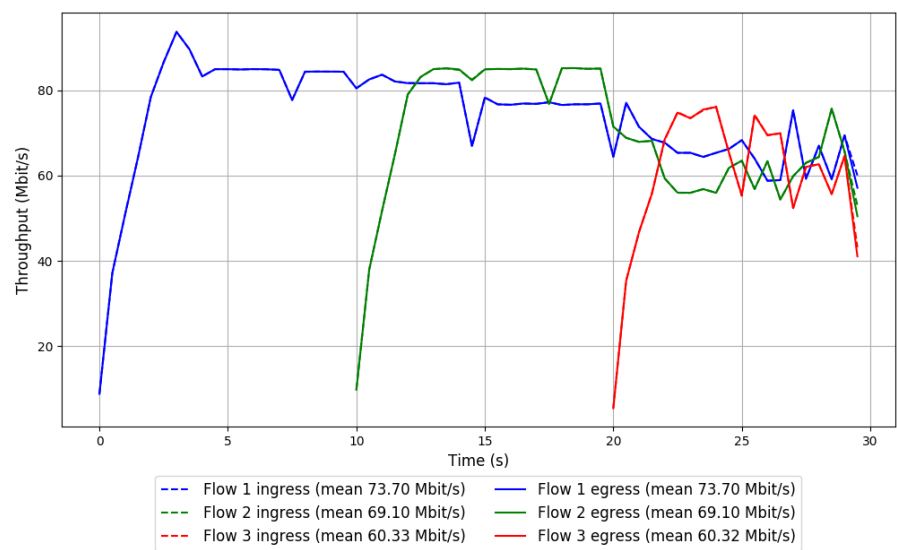


Run 7: Statistics of QUIC Cubic

Start at: 2017-11-16 09:29:40
End at: 2017-11-16 09:30:10
Local clock offset: 1.132 ms
Remote clock offset: -0.291 ms

Below is generated by plot.py at 2017-11-16 15:07:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 139.45 Mbit/s
95th percentile per-packet one-way delay: 1.140 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 73.70 Mbit/s
95th percentile per-packet one-way delay: 1.138 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 69.10 Mbit/s
95th percentile per-packet one-way delay: 1.124 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 60.32 Mbit/s
95th percentile per-packet one-way delay: 1.174 ms
Loss rate: 0.19%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-16 09:49:49

End at: 2017-11-16 09:50:19

Local clock offset: 1.127 ms

Remote clock offset: 0.118 ms

Below is generated by plot.py at 2017-11-16 15:07:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 137.80 Mbit/s

95th percentile per-packet one-way delay: 1.211 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 71.04 Mbit/s

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

Loss rate: 0.06%

-- Flow 2:

Average throughput: 71.30 Mbit/s

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

Loss rate: 0.11%

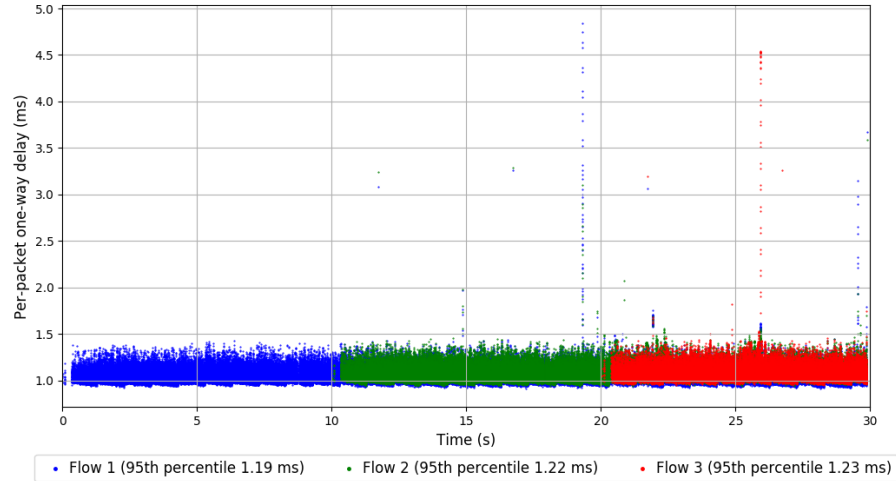
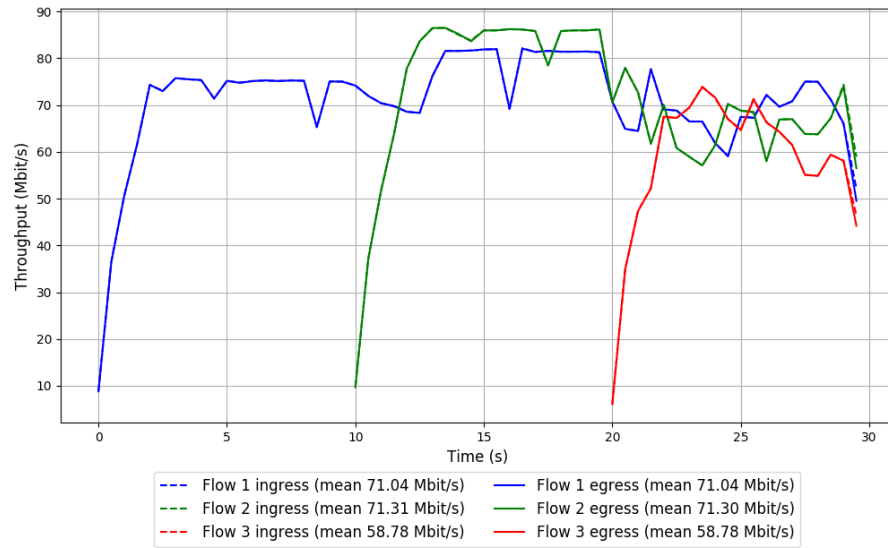
-- Flow 3:

Average throughput: 58.78 Mbit/s

95th percentile per-packet one-way delay: 1.233 ms

Loss rate: 0.20%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-16 10:10:24

End at: 2017-11-16 10:10:54

Local clock offset: 1.057 ms

Remote clock offset: 0.064 ms

Below is generated by plot.py at 2017-11-16 15:07:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 141.25 Mbit/s

95th percentile per-packet one-way delay: 1.302 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 73.44 Mbit/s

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

Loss rate: 0.06%

-- Flow 2:

Average throughput: 72.31 Mbit/s

95th percentile per-packet one-way delay: 1.309 ms

Loss rate: 0.10%

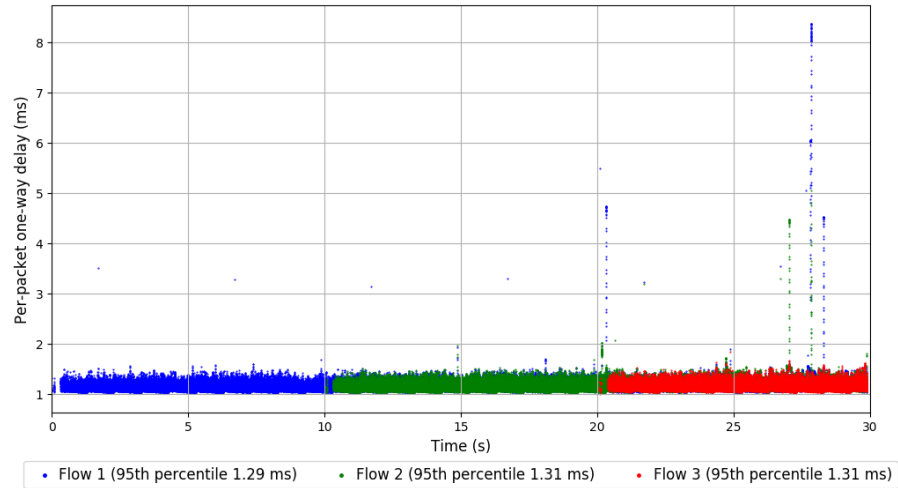
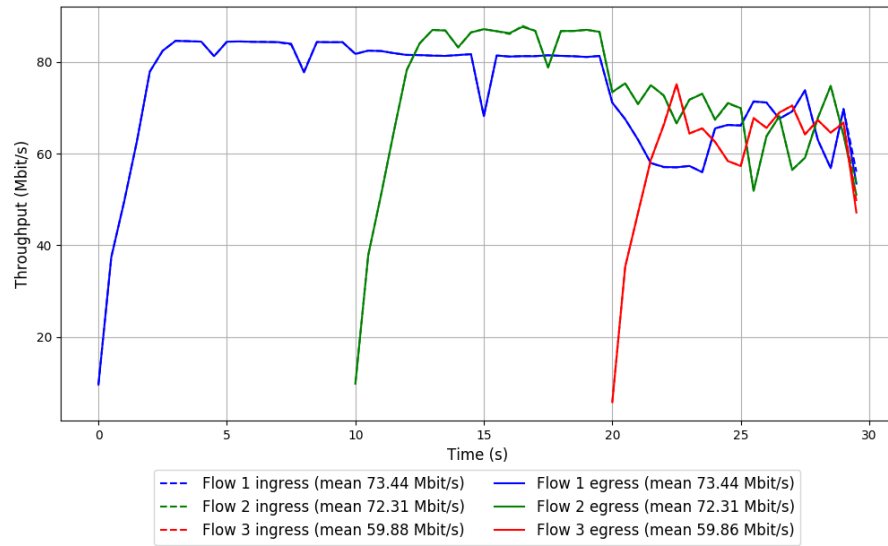
-- Flow 3:

Average throughput: 59.86 Mbit/s

95th percentile per-packet one-way delay: 1.310 ms

Loss rate: 0.22%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-11-16 10:30:43

End at: 2017-11-16 10:31:13

Local clock offset: 0.818 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2017-11-16 15:07:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.97 Mbit/s

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

Loss rate: 0.10%

-- Flow 1:

Average throughput: 70.97 Mbit/s

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

Loss rate: 0.05%

-- Flow 2:

Average throughput: 66.60 Mbit/s

95th percentile per-packet one-way delay: 1.206 ms

Loss rate: 0.13%

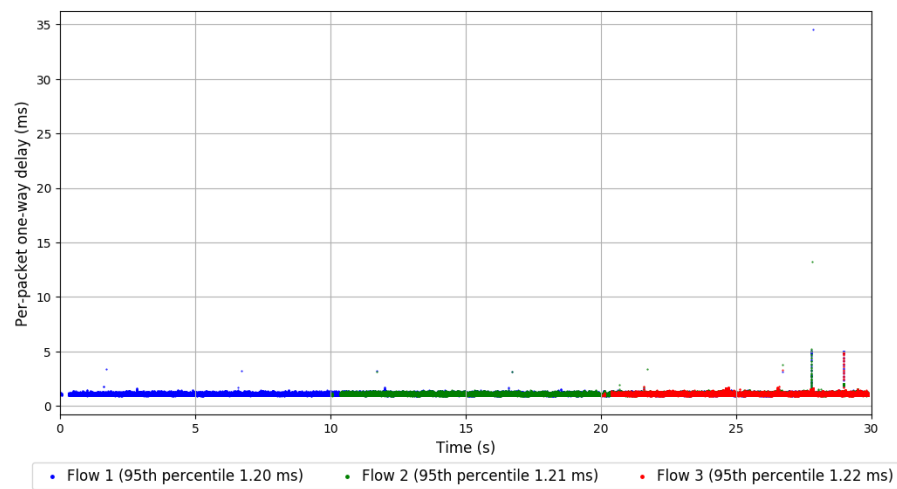
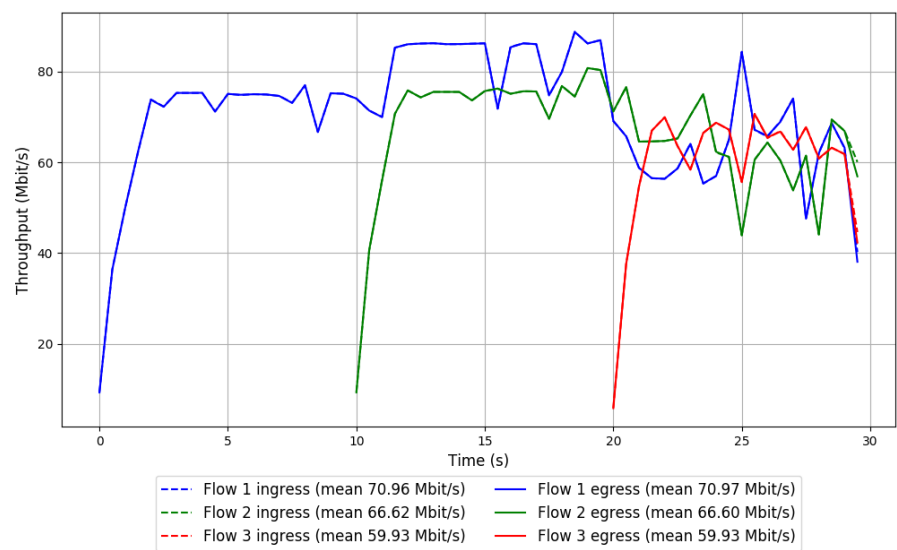
-- Flow 3:

Average throughput: 59.93 Mbit/s

95th percentile per-packet one-way delay: 1.219 ms

Loss rate: 0.21%

Run 10: Report of QUIC Cubic — Data Link

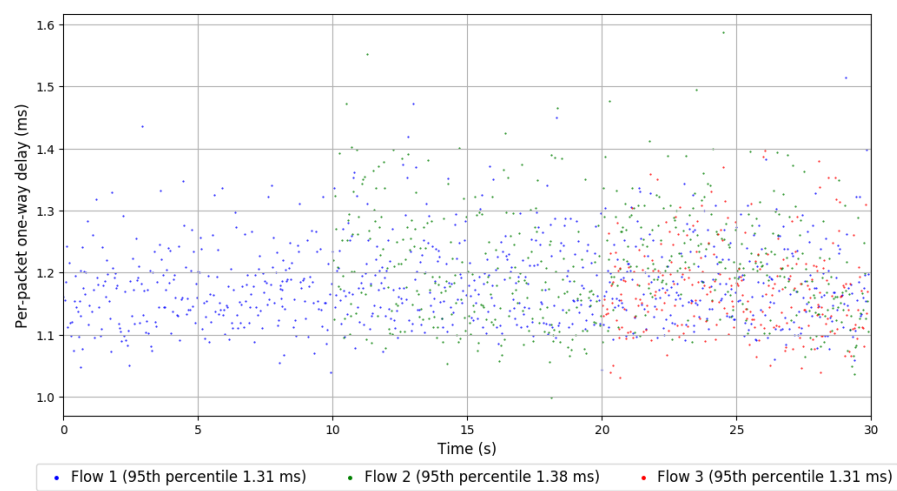
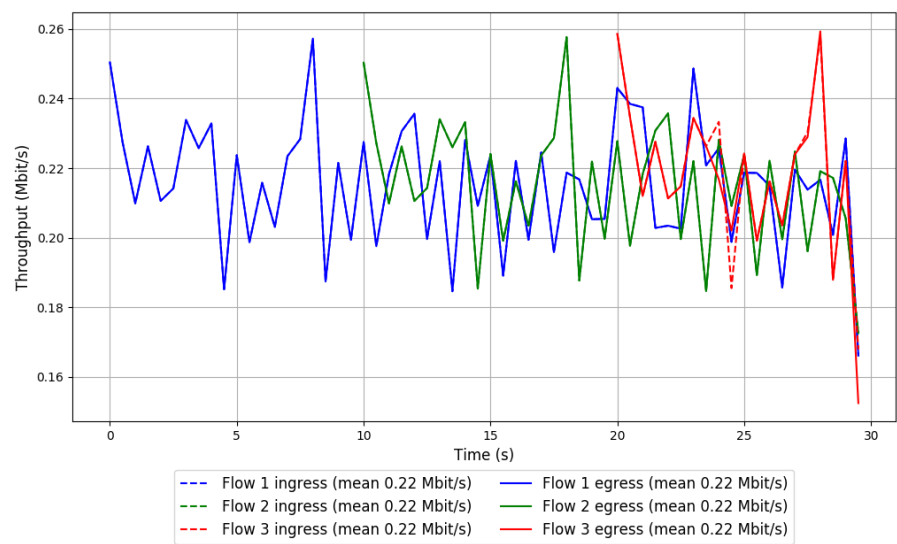


Run 1: Statistics of SReAM

Start at: 2017-11-16 07:29:08
End at: 2017-11-16 07:29:38
Local clock offset: 0.784 ms
Remote clock offset: -1.988 ms

Below is generated by plot.py at 2017-11-16 15:07:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.336 ms
Loss rate: 0.06%
-- 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: 1.381 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.311 ms
Loss rate: 0.35%

Run 1: Report of SReAM — Data Link

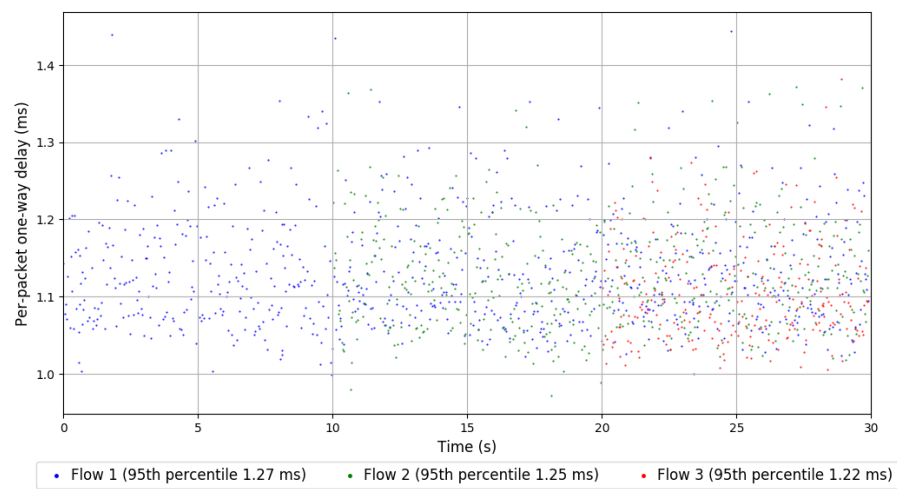
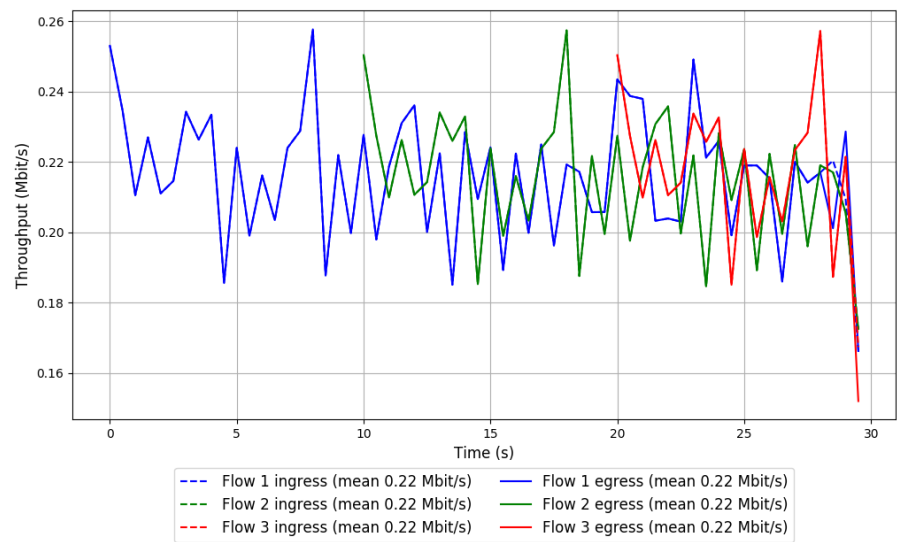


Run 2: Statistics of SReAM

Start at: 2017-11-16 07:49:45
End at: 2017-11-16 07:50:15
Local clock offset: 0.616 ms
Remote clock offset: -1.341 ms

Below is generated by plot.py at 2017-11-16 15:07:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.257 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.267 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.255 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.223 ms
Loss rate: 0.35%

Run 2: Report of SReAM — Data Link

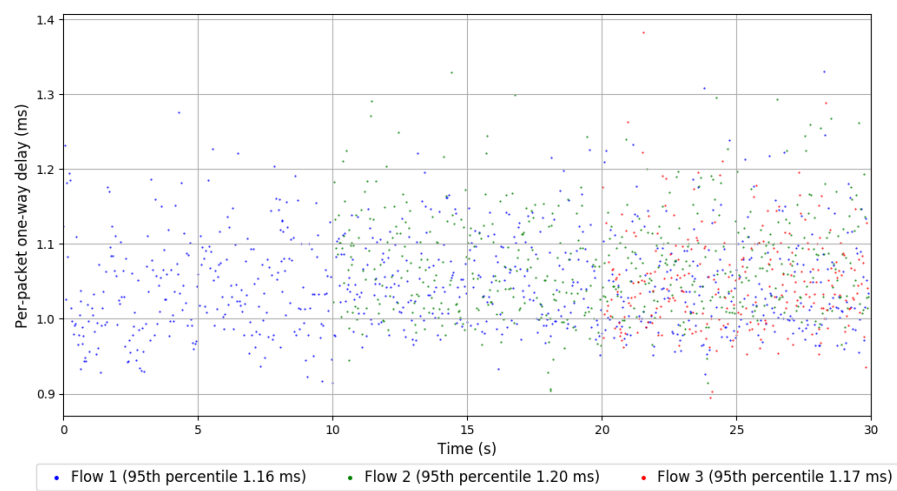
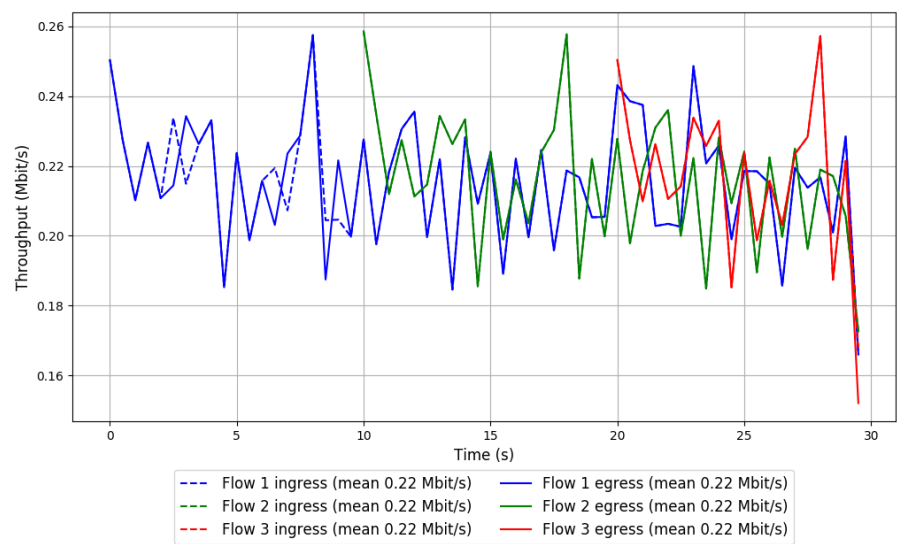


Run 3: Statistics of SReAM

Start at: 2017-11-16 08:10:24
End at: 2017-11-16 08:10:54
Local clock offset: 0.702 ms
Remote clock offset: -1.052 ms

Below is generated by plot.py at 2017-11-16 15:07:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.177 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.162 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.197 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.165 ms
Loss rate: 0.35%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2017-11-16 08:31:11

End at: 2017-11-16 08:31:41

Local clock offset: 1.029 ms

Remote clock offset: -1.01 ms

Below is generated by plot.py at 2017-11-16 15:07:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.318 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.334 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.289 ms

Loss rate: 0.00%

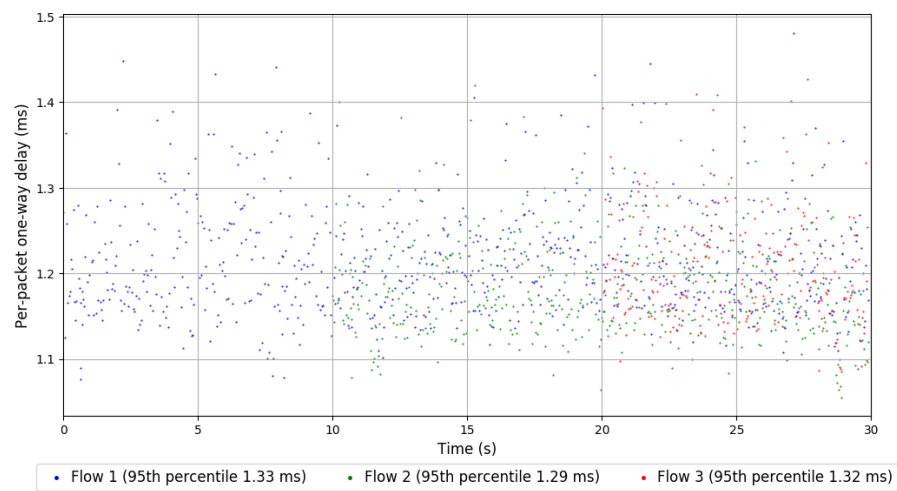
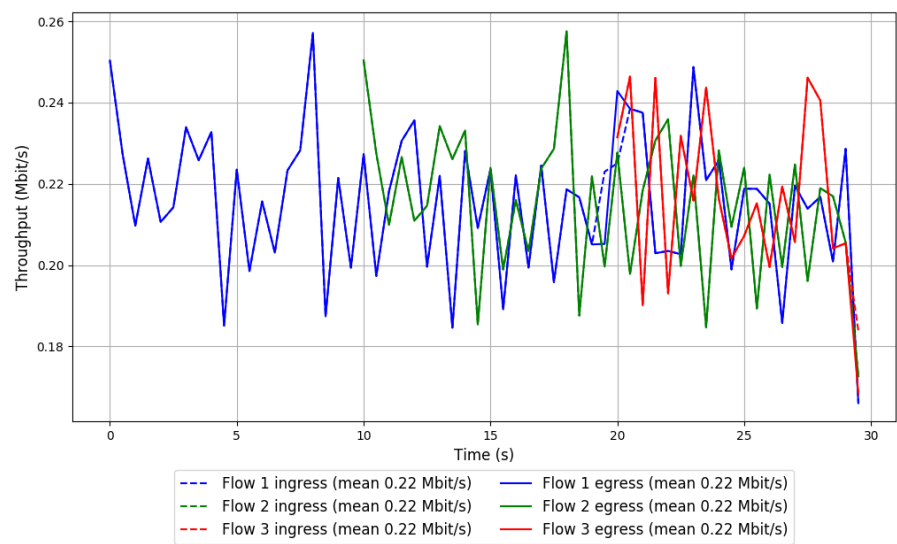
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.35%

Run 4: Report of SReAM — Data Link

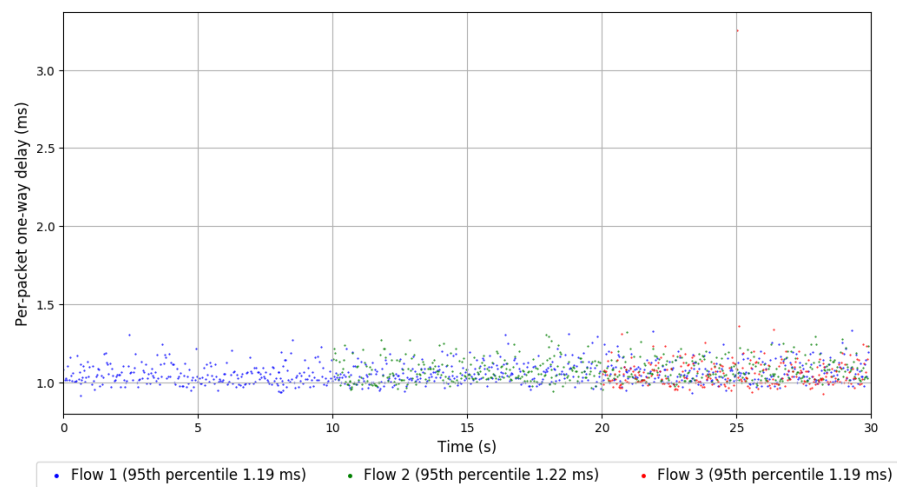
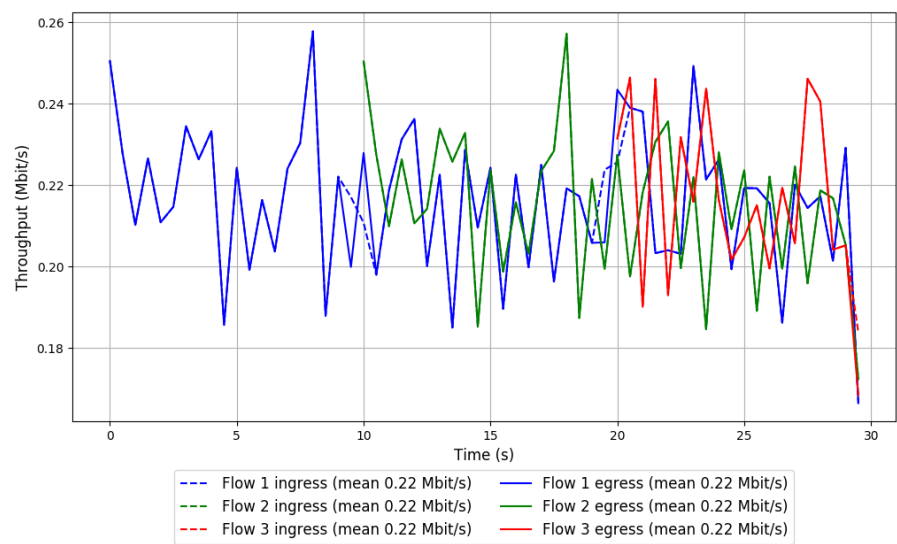


Run 5: Statistics of SReAM

Start at: 2017-11-16 08:51:55
End at: 2017-11-16 08:52:25
Local clock offset: 1.082 ms
Remote clock offset: -0.636 ms

Below is generated by plot.py at 2017-11-16 15:07:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.198 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.186 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.218 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.190 ms
Loss rate: 0.35%

Run 5: Report of SReAM — Data Link

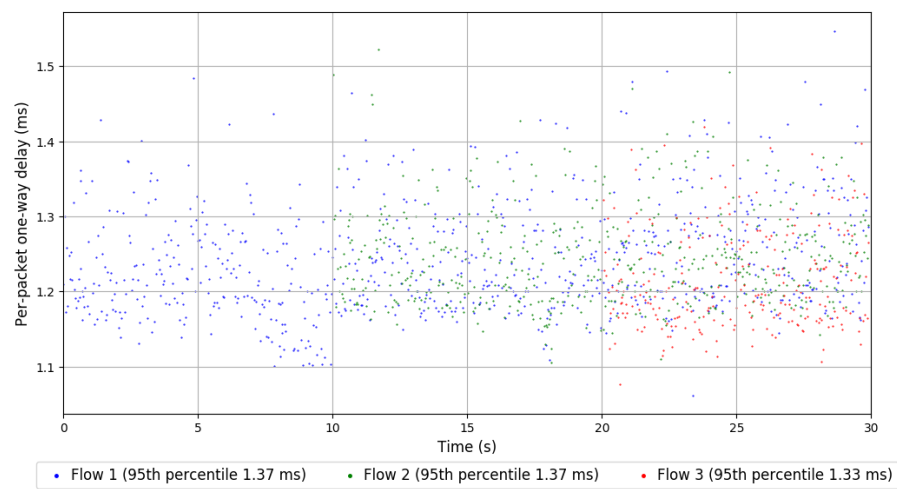
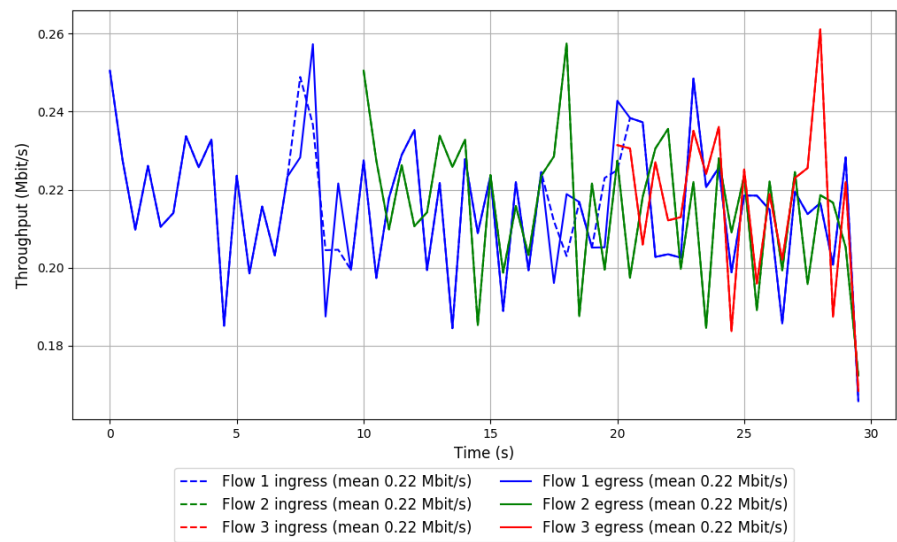


Run 6: Statistics of SReAM

Start at: 2017-11-16 09:12:18
End at: 2017-11-16 09:12:48
Local clock offset: 1.229 ms
Remote clock offset: -0.541 ms

Below is generated by plot.py at 2017-11-16 15:07:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.368 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.373 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.370 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.332 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

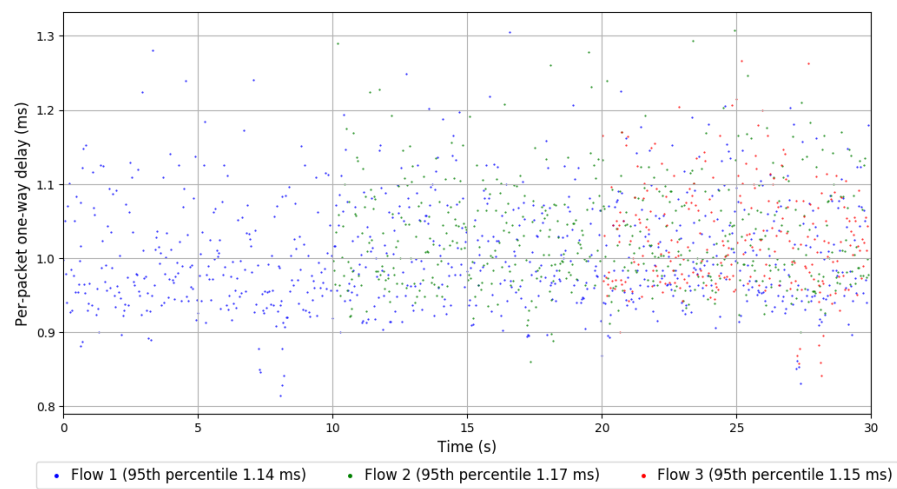
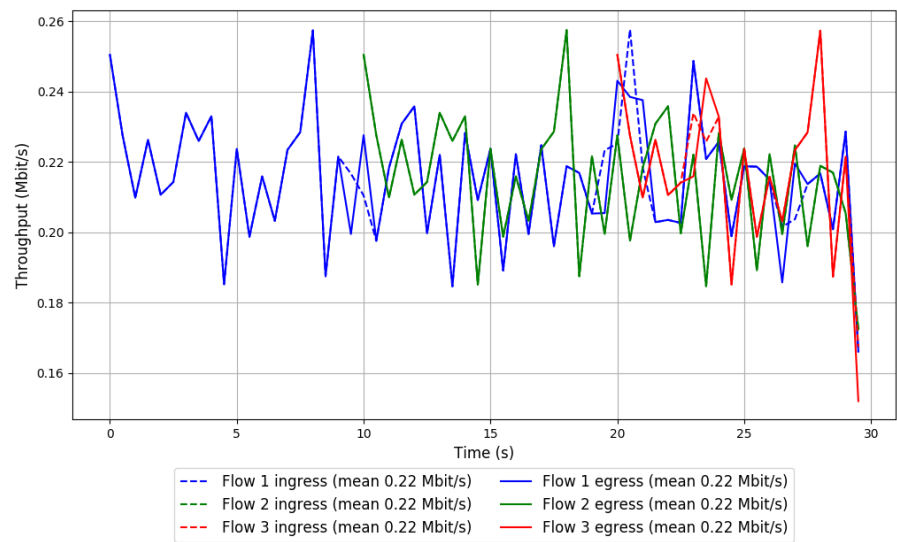


Run 7: Statistics of SReAM

Start at: 2017-11-16 09:32:48
End at: 2017-11-16 09:33:18
Local clock offset: 1.139 ms
Remote clock offset: -0.152 ms

Below is generated by plot.py at 2017-11-16 15:07:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.151 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.144 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.165 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.153 ms
Loss rate: 0.35%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2017-11-16 09:52:56

End at: 2017-11-16 09:53:26

Local clock offset: 1.09 ms

Remote clock offset: 0.127 ms

Below is generated by plot.py at 2017-11-16 15:07:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

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

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

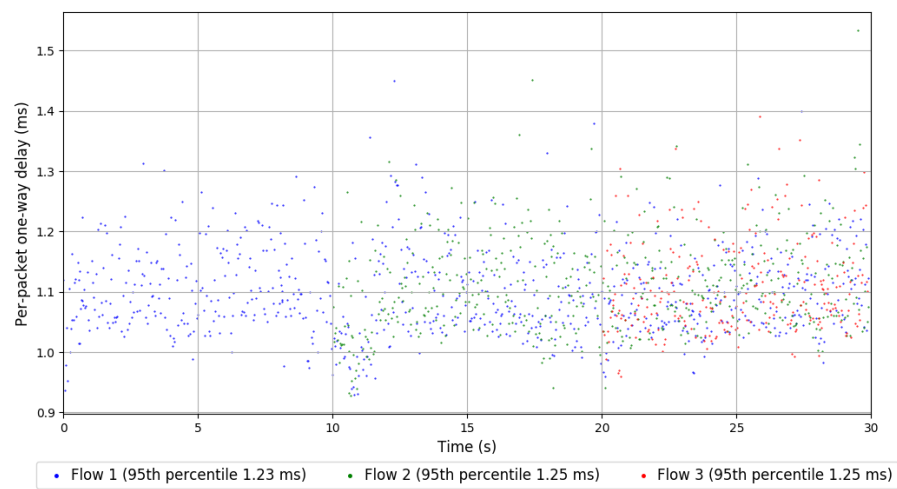
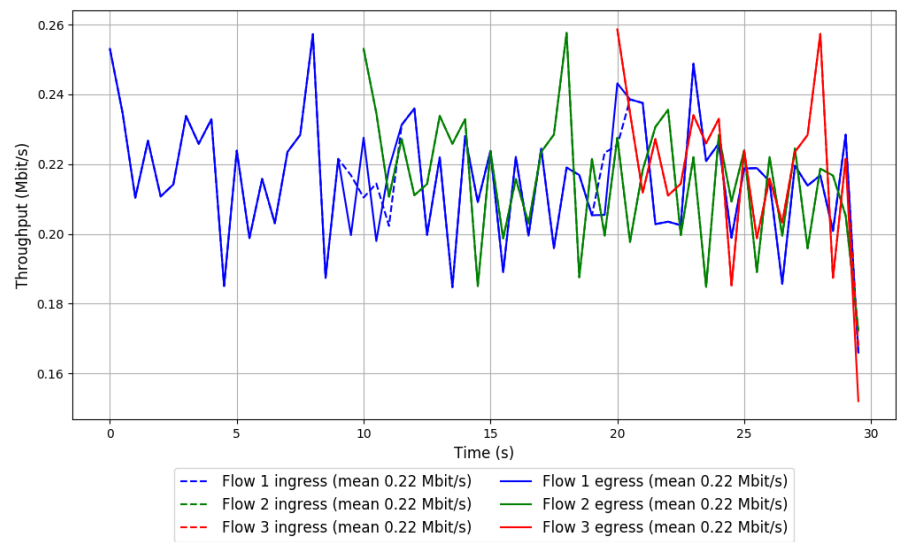
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.249 ms

Loss rate: 0.35%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2017-11-16 10:13:33

End at: 2017-11-16 10:14:03

Local clock offset: 0.919 ms

Remote clock offset: 0.13 ms

Below is generated by plot.py at 2017-11-16 15:07:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

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

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.215 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

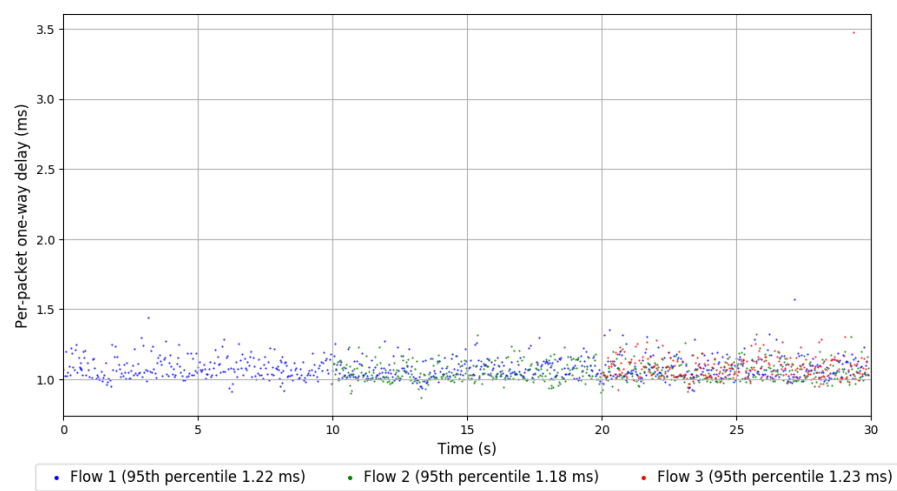
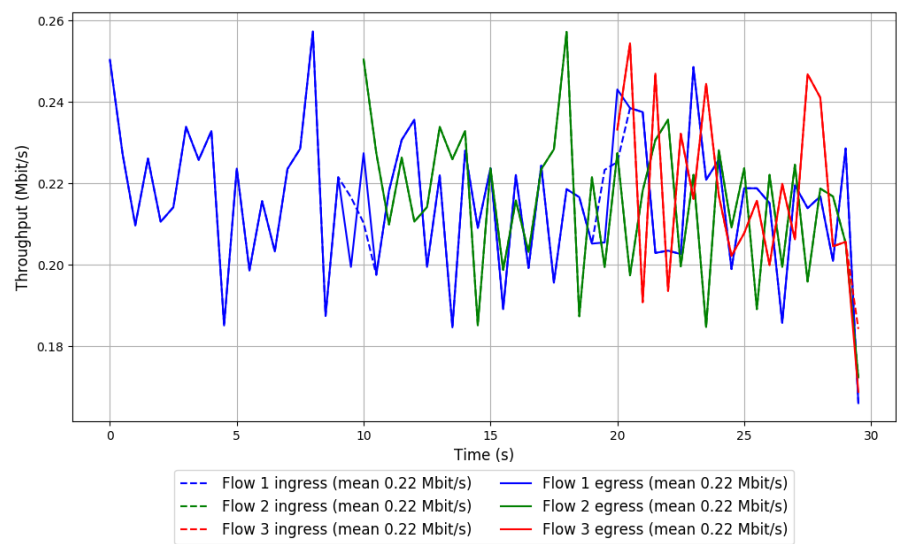
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.35%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-11-16 10:33:51

End at: 2017-11-16 10:34:21

Local clock offset: 0.835 ms

Remote clock offset: 0.087 ms

Below is generated by plot.py at 2017-11-16 15:07:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

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

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.259 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

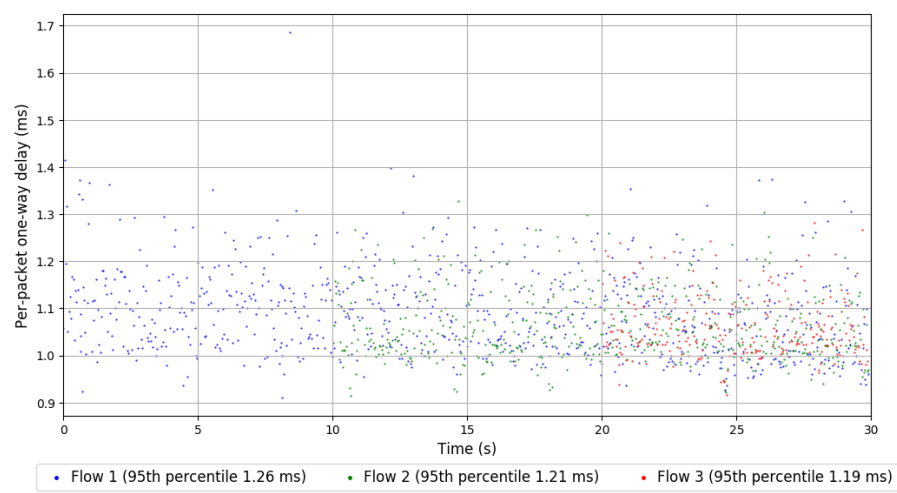
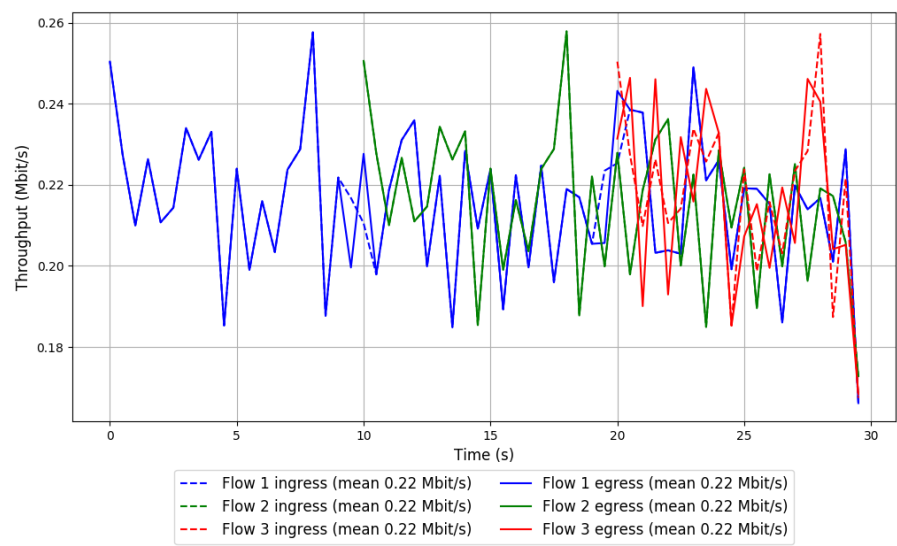
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.35%

Run 10: Report of SReAM — Data Link

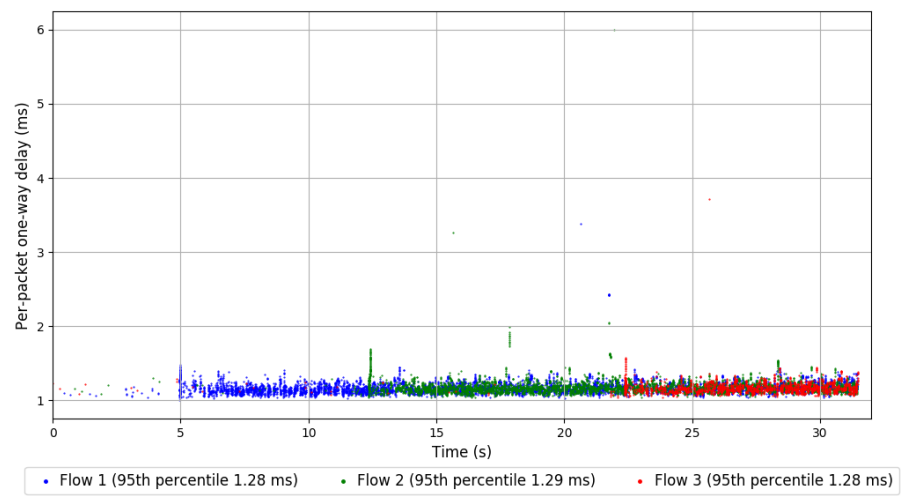
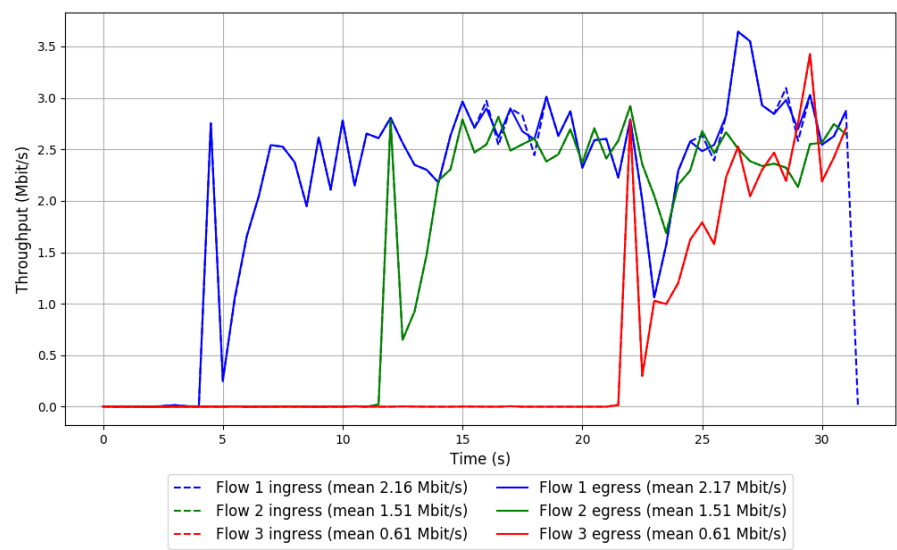


Run 1: Statistics of WebRTC media

Start at: 2017-11-16 07:21:46
End at: 2017-11-16 07:22:16
Local clock offset: 0.926 ms
Remote clock offset: -2.266 ms

Below is generated by plot.py at 2017-11-16 15:07:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.21 Mbit/s
95th percentile per-packet one-way delay: 1.285 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 1.280 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.51 Mbit/s
95th percentile per-packet one-way delay: 1.292 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 1.282 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

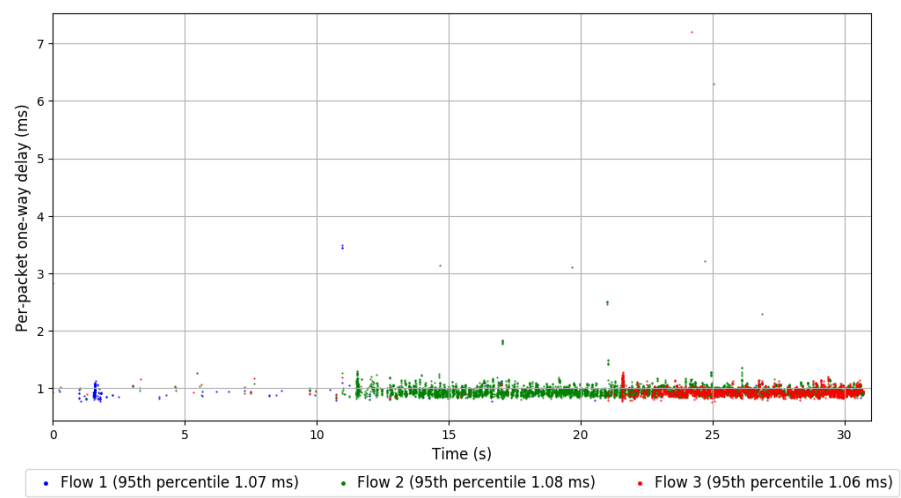
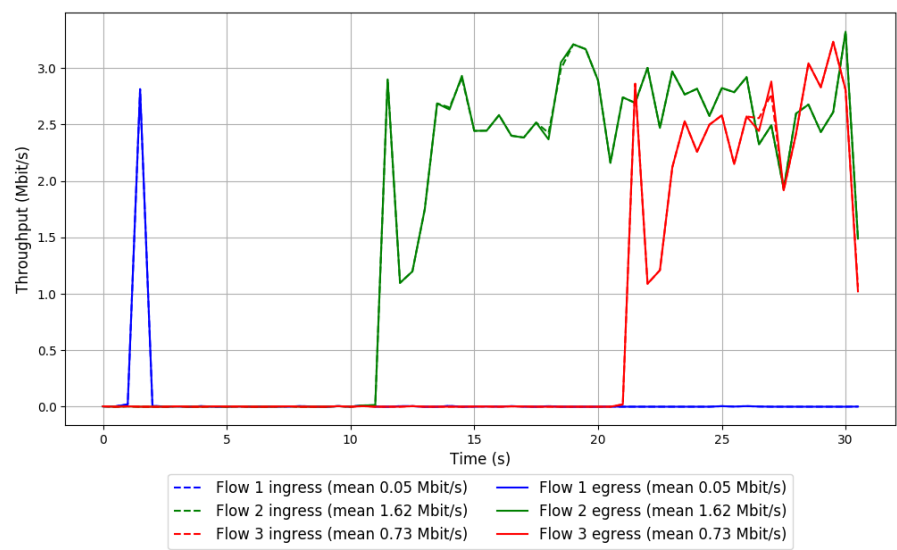


Run 2: Statistics of WebRTC media

Start at: 2017-11-16 07:42:31
End at: 2017-11-16 07:43:01
Local clock offset: 0.622 ms
Remote clock offset: -1.377 ms

Below is generated by plot.py at 2017-11-16 15:07:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 1.076 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.075 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.62 Mbit/s
95th percentile per-packet one-way delay: 1.080 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.73 Mbit/s
95th percentile per-packet one-way delay: 1.065 ms
Loss rate: 0.09%

Run 2: Report of WebRTC media — Data Link

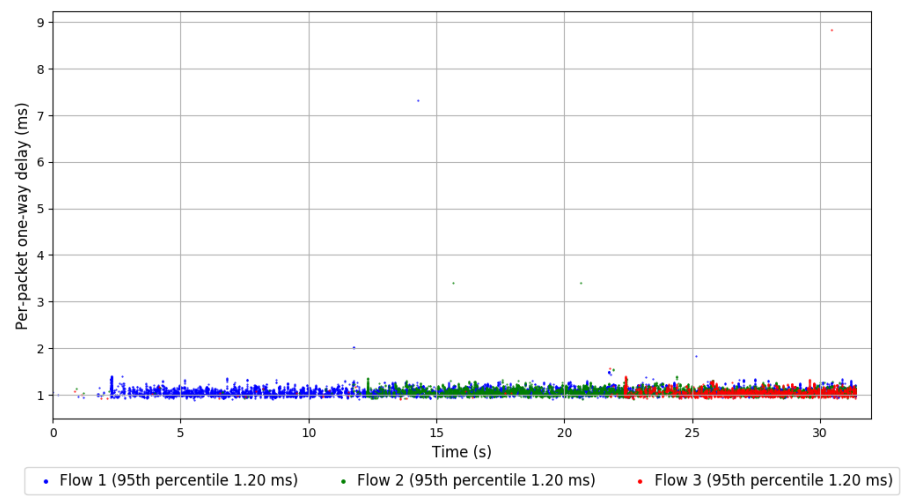
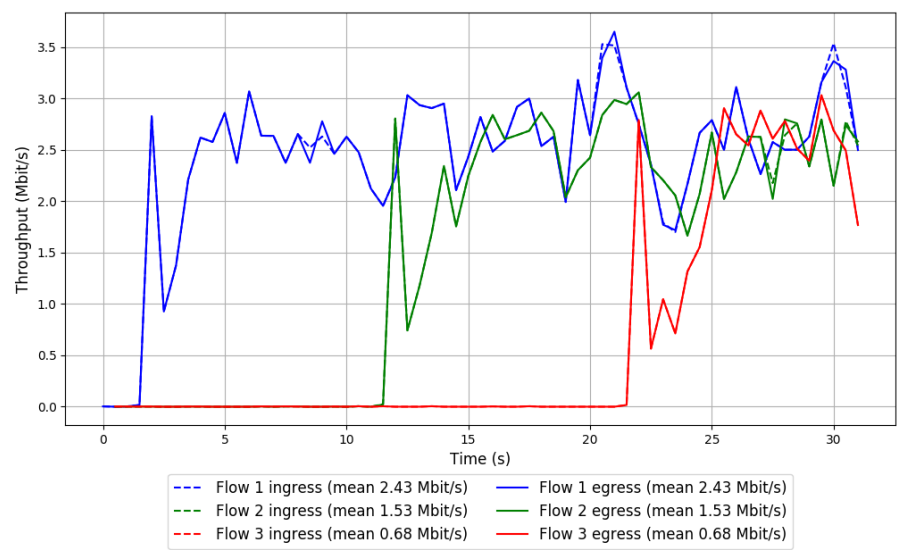


Run 3: Statistics of WebRTC media

Start at: 2017-11-16 08:03:06
End at: 2017-11-16 08:03:36
Local clock offset: 0.712 ms
Remote clock offset: -1.084 ms

Below is generated by plot.py at 2017-11-16 15:07:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.57 Mbit/s
95th percentile per-packet one-way delay: 1.200 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 1.202 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 1.196 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.68 Mbit/s
95th percentile per-packet one-way delay: 1.203 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

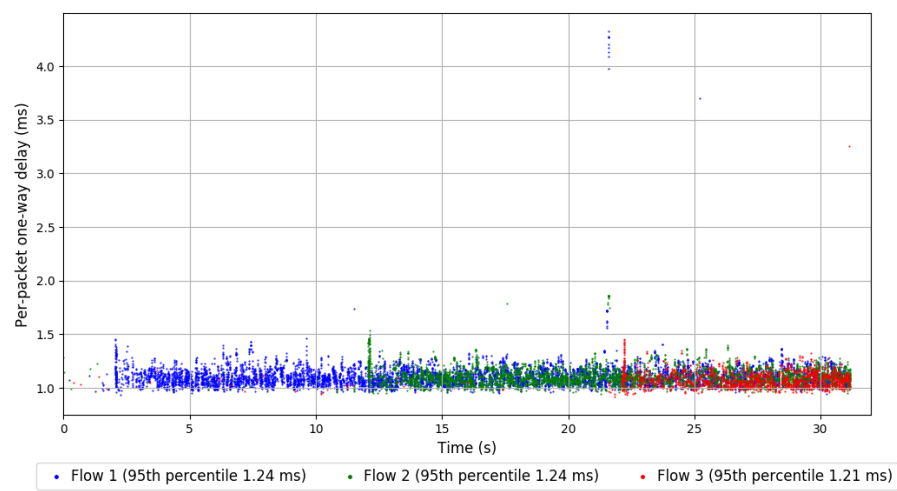
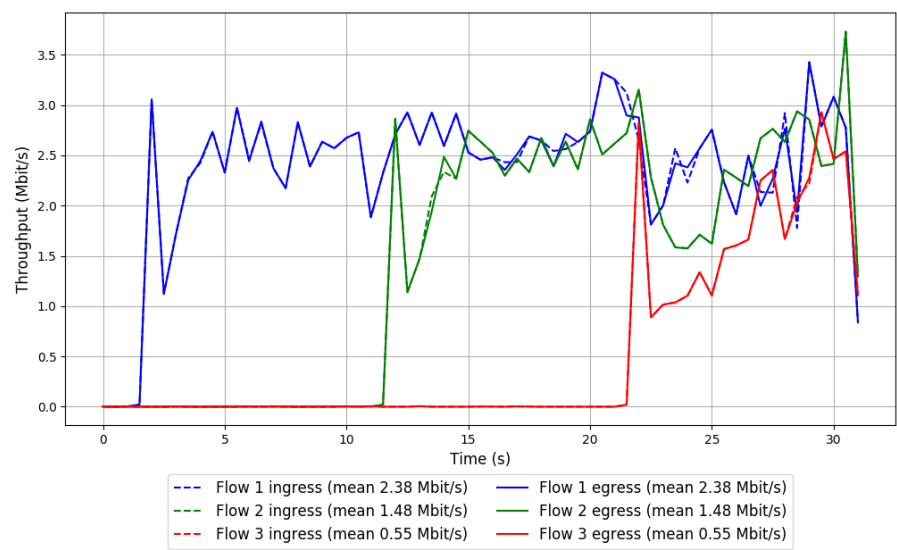


Run 4: Statistics of WebRTC media

Start at: 2017-11-16 08:23:52
End at: 2017-11-16 08:24:22
Local clock offset: 0.944 ms
Remote clock offset: -1.044 ms

Below is generated by plot.py at 2017-11-16 15:07:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 1.235 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 1.237 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: 1.235 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 1.211 ms
Loss rate: 0.06%

Run 4: Report of WebRTC media — Data Link

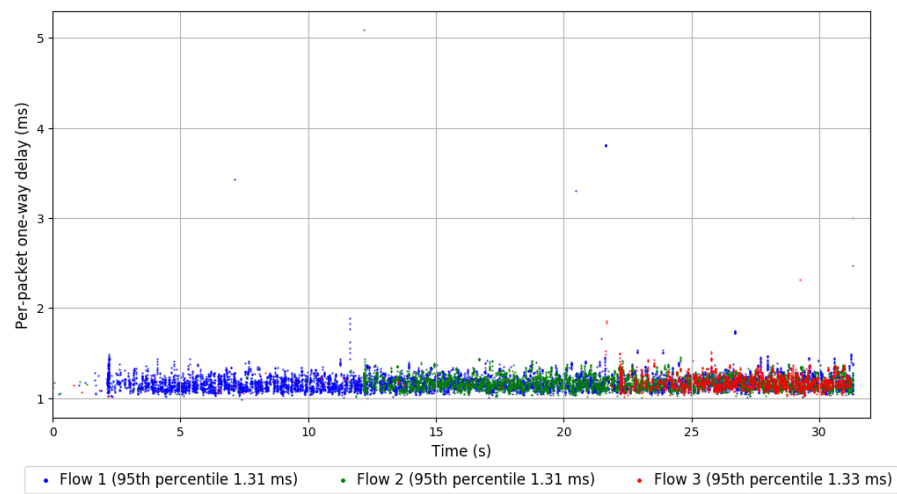
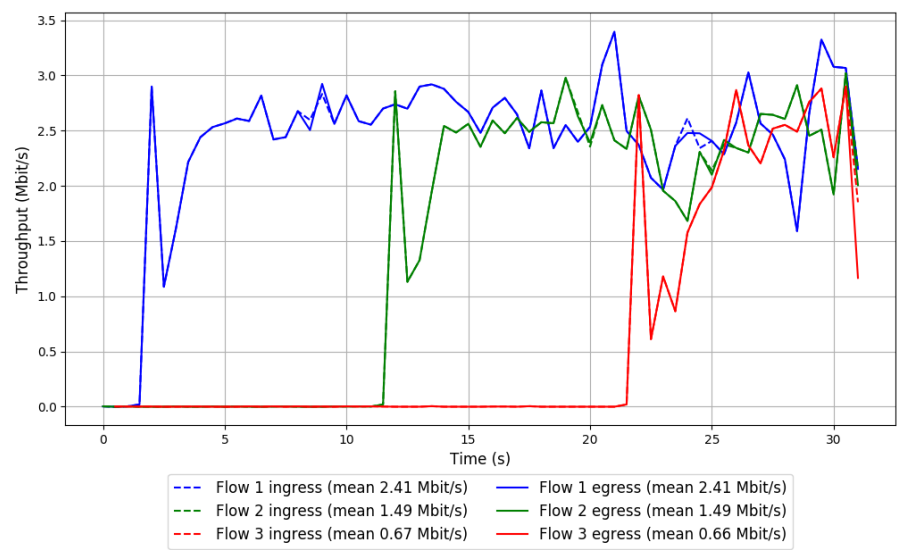


Run 5: Statistics of WebRTC media

Start at: 2017-11-16 08:44:37
End at: 2017-11-16 08:45:07
Local clock offset: 1.155 ms
Remote clock offset: -0.843 ms

Below is generated by plot.py at 2017-11-16 15:07:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.54 Mbit/s
95th percentile per-packet one-way delay: 1.311 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 1.309 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.49 Mbit/s
95th percentile per-packet one-way delay: 1.306 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 1.327 ms
Loss rate: 1.68%

Run 5: Report of WebRTC media — Data Link

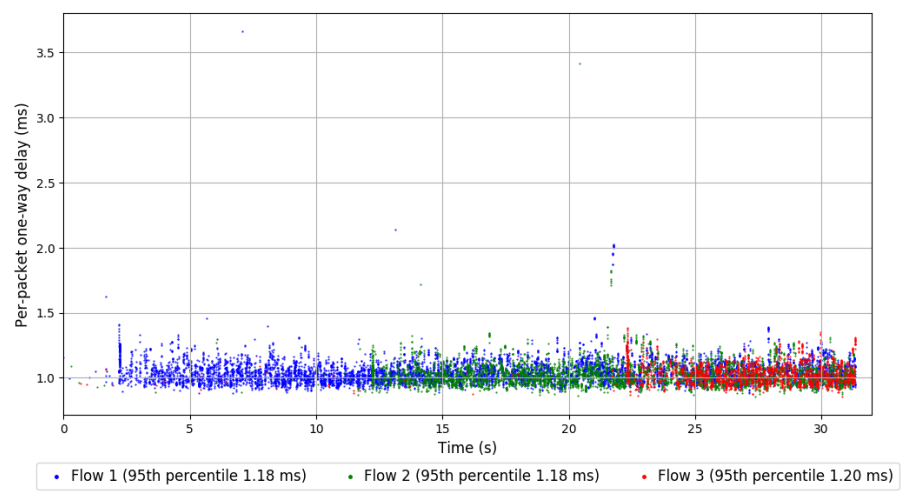
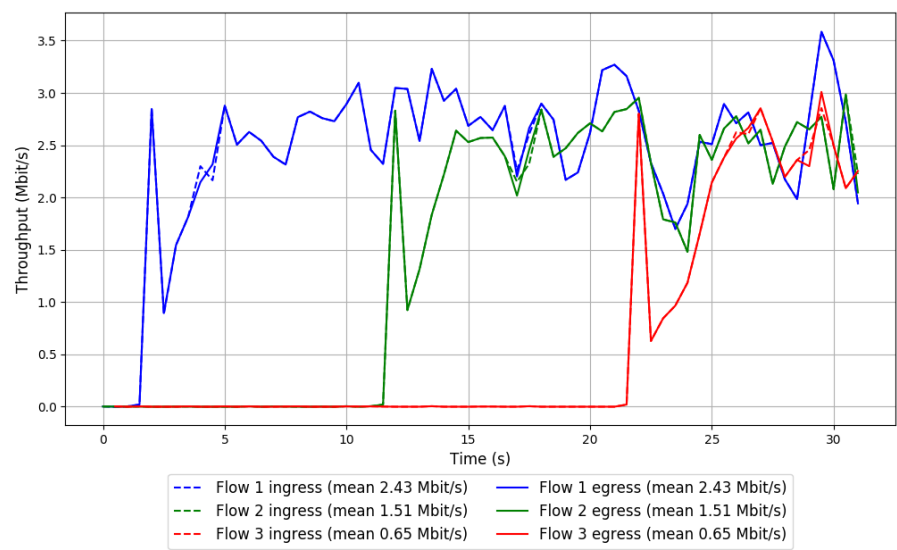


Run 6: Statistics of WebRTC media

Start at: 2017-11-16 09:05:01
End at: 2017-11-16 09:05:31
Local clock offset: 1.123 ms
Remote clock offset: -0.663 ms

Below is generated by plot.py at 2017-11-16 15:07:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.56 Mbit/s
95th percentile per-packet one-way delay: 1.184 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 1.184 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.51 Mbit/s
95th percentile per-packet one-way delay: 1.180 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 1.198 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

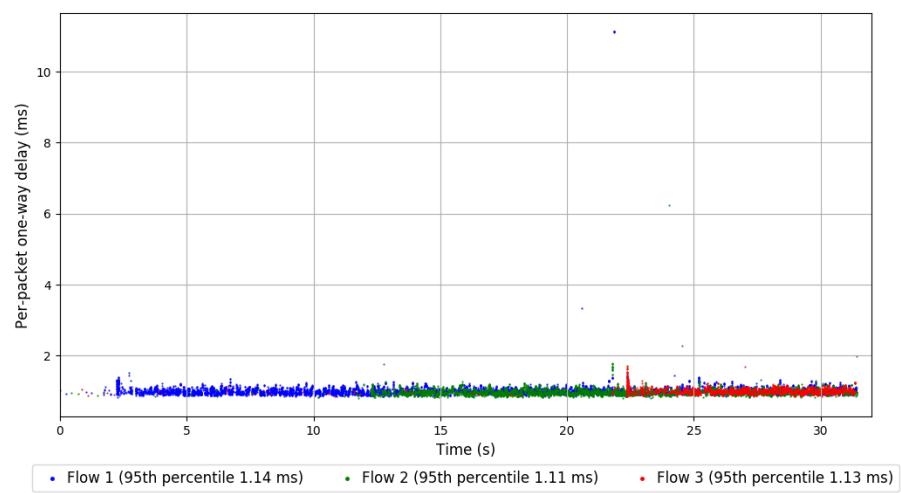
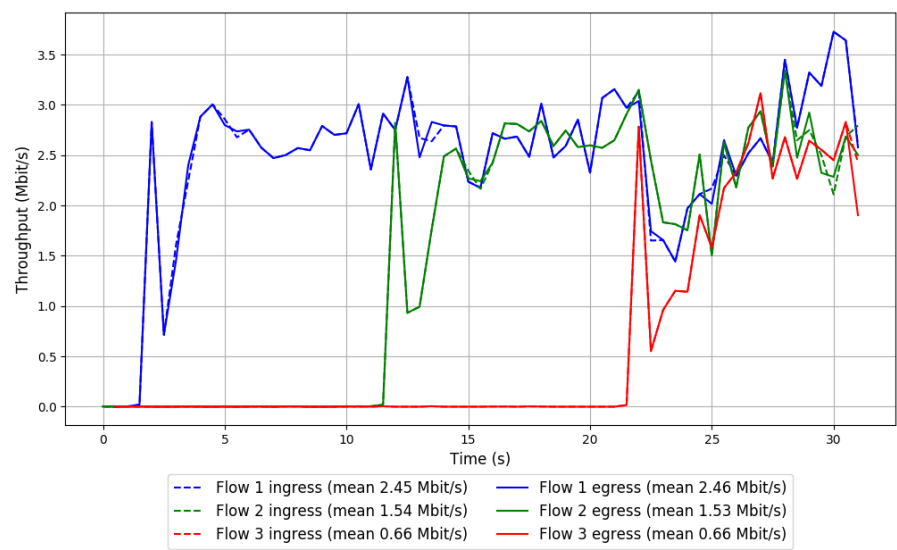


Run 7: Statistics of WebRTC media

Start at: 2017-11-16 09:25:37
End at: 2017-11-16 09:26:07
Local clock offset: 1.108 ms
Remote clock offset: -0.399 ms

Below is generated by plot.py at 2017-11-16 15:07:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.60 Mbit/s
95th percentile per-packet one-way delay: 1.129 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 2.46 Mbit/s
95th percentile per-packet one-way delay: 1.138 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 1.107 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 1.134 ms
Loss rate: 1.30%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-16 09:45:44

End at: 2017-11-16 09:46:14

Local clock offset: 1.228 ms

Remote clock offset: 0.027 ms

Below is generated by plot.py at 2017-11-16 15:07:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.53 Mbit/s

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

Loss rate: 0.29%

-- Flow 1:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 1.297 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 1.334 ms

Loss rate: 0.36%

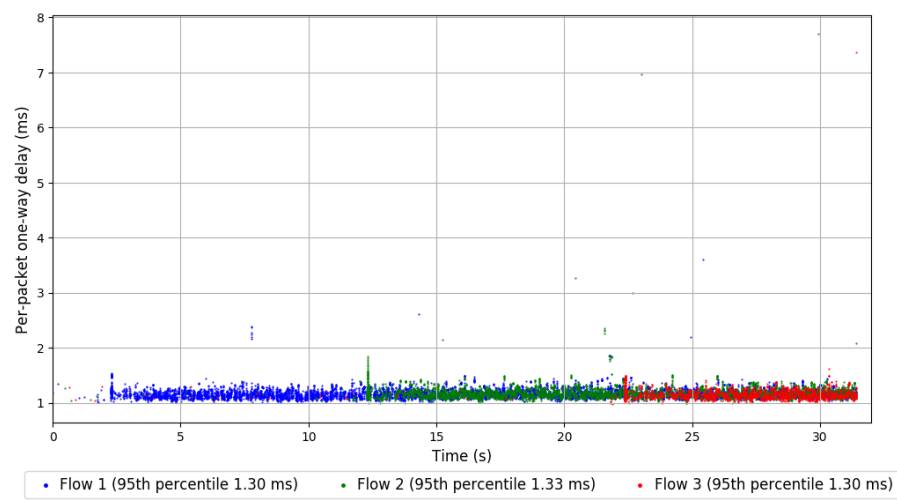
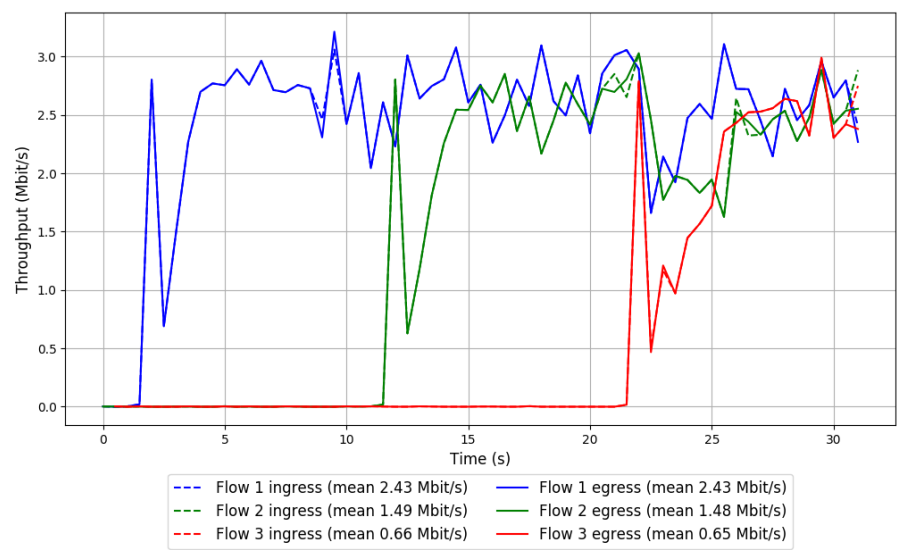
-- Flow 3:

Average throughput: 0.65 Mbit/s

95th percentile per-packet one-way delay: 1.301 ms

Loss rate: 0.91%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-16 10:06:20

End at: 2017-11-16 10:06:50

Local clock offset: 0.988 ms

Remote clock offset: 0.063 ms

Below is generated by plot.py at 2017-11-16 15:07:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.49 Mbit/s

95th percentile per-packet one-way delay: 1.199 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 1.199 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.53 Mbit/s

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

Loss rate: 0.02%

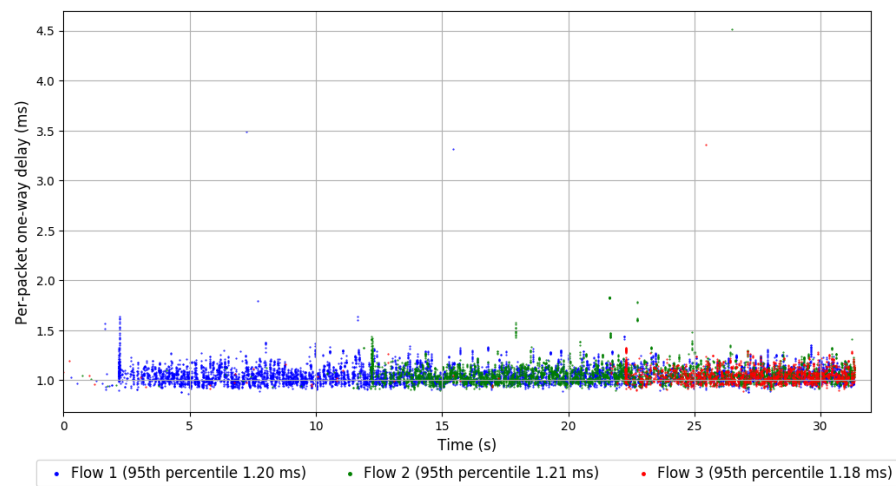
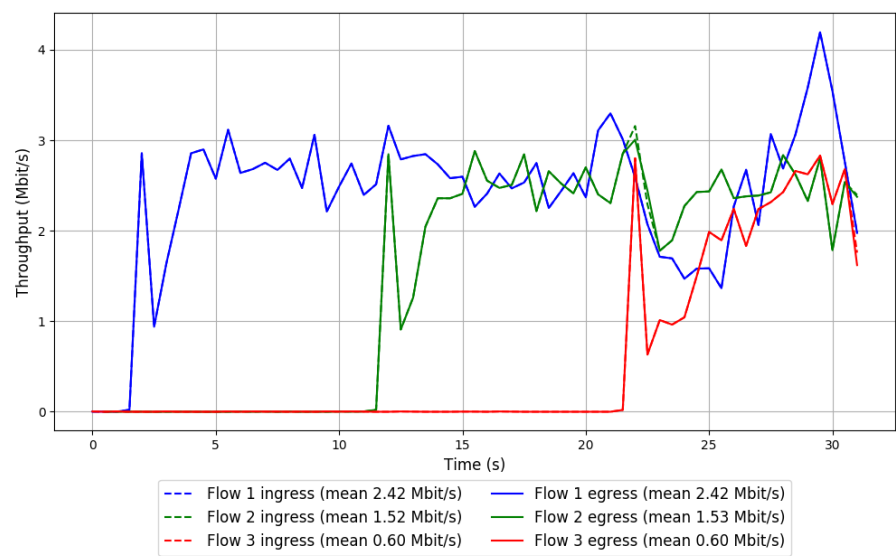
-- Flow 3:

Average throughput: 0.60 Mbit/s

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

Loss rate: 0.36%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-16 10:26:33

End at: 2017-11-16 10:27:03

Local clock offset: 0.815 ms

Remote clock offset: 0.038 ms

Below is generated by plot.py at 2017-11-16 15:07:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.57 Mbit/s

95th percentile per-packet one-way delay: 1.177 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.45 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.50 Mbit/s

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

Loss rate: 0.02%

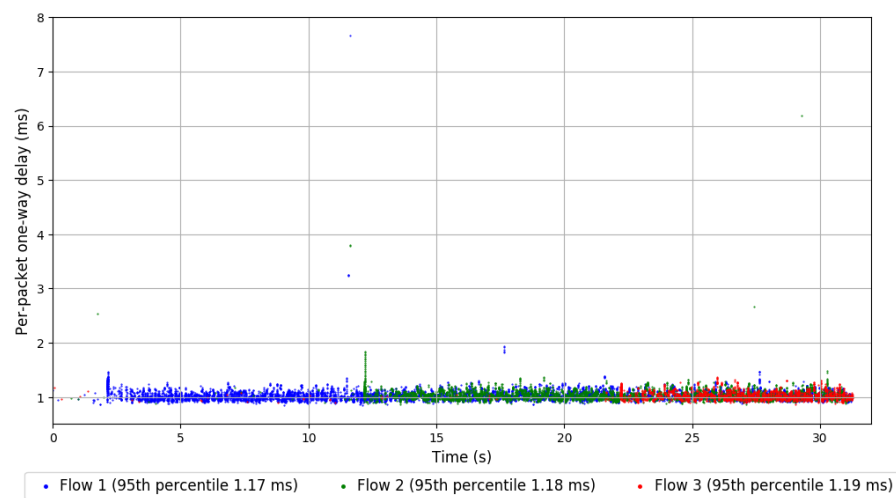
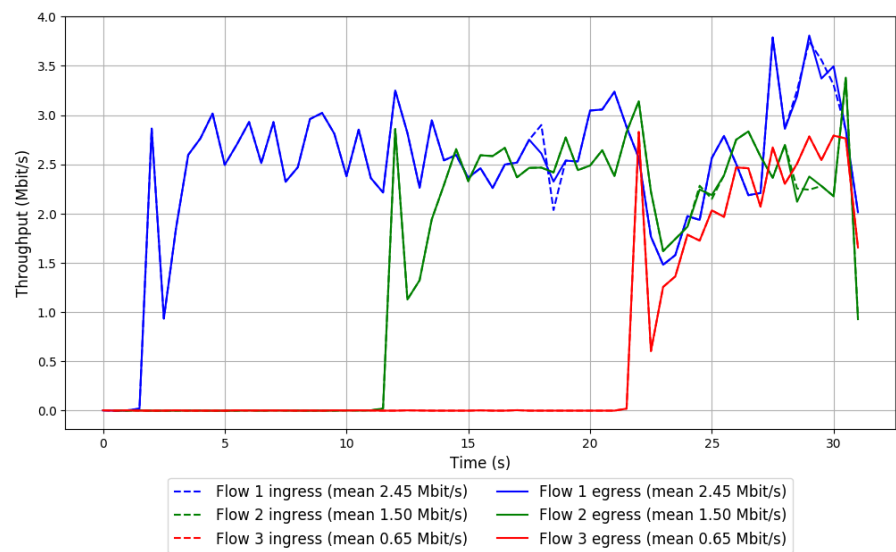
-- Flow 3:

Average throughput: 0.65 Mbit/s

95th percentile per-packet one-way delay: 1.185 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

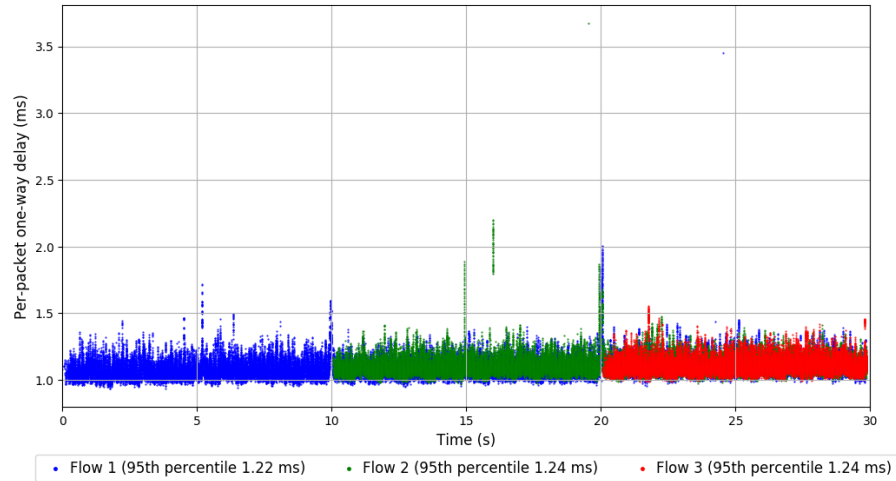
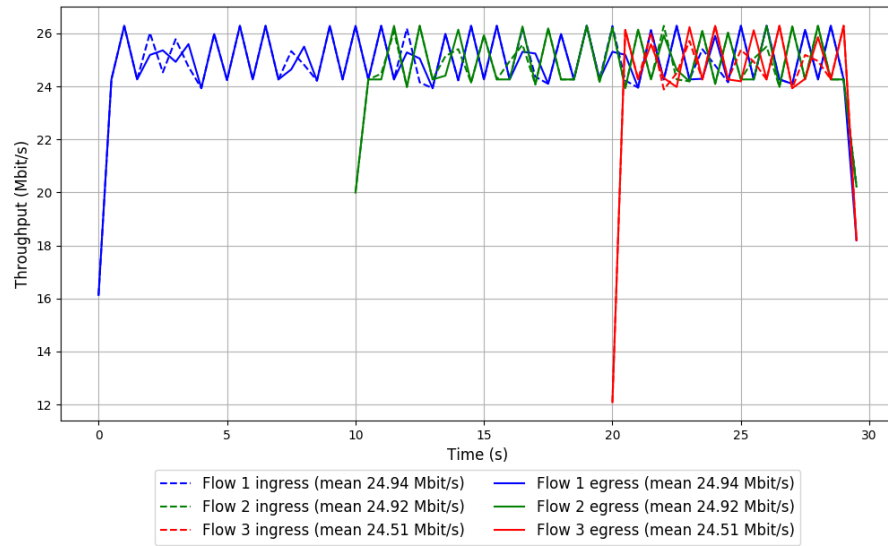


Run 1: Statistics of Sprout

Start at: 2017-11-16 07:33:19
End at: 2017-11-16 07:33:49
Local clock offset: 0.727 ms
Remote clock offset: -1.836 ms

Below is generated by plot.py at 2017-11-16 15:07:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.55 Mbit/s
95th percentile per-packet one-way delay: 1.232 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 24.94 Mbit/s
95th percentile per-packet one-way delay: 1.223 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 24.92 Mbit/s
95th percentile per-packet one-way delay: 1.239 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.51 Mbit/s
95th percentile per-packet one-way delay: 1.243 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

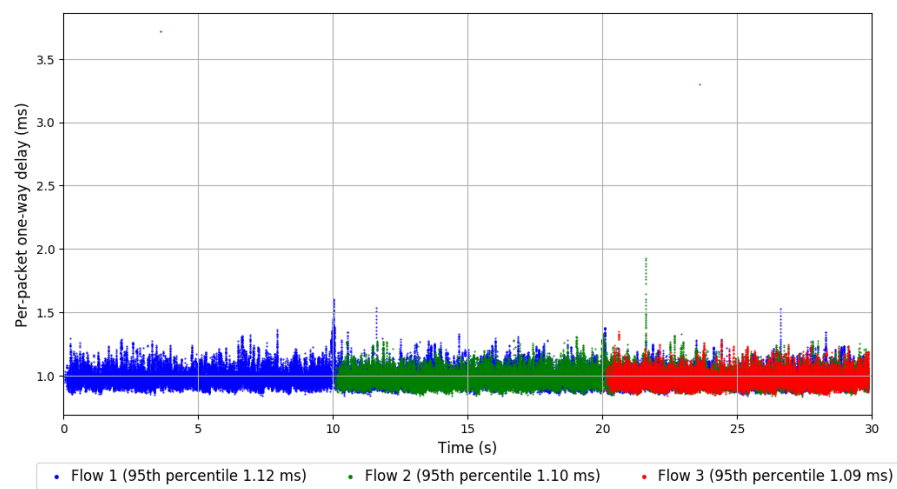
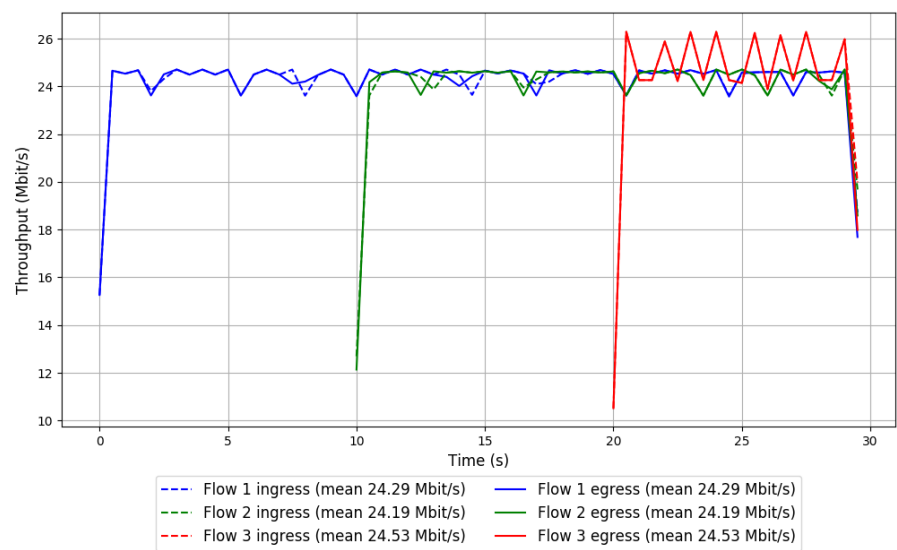


Run 2: Statistics of Sprout

Start at: 2017-11-16 07:53:54
End at: 2017-11-16 07:54:24
Local clock offset: 0.592 ms
Remote clock offset: -1.292 ms

Below is generated by plot.py at 2017-11-16 15:07:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.38 Mbit/s
95th percentile per-packet one-way delay: 1.112 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 24.29 Mbit/s
95th percentile per-packet one-way delay: 1.122 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 24.19 Mbit/s
95th percentile per-packet one-way delay: 1.105 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 24.53 Mbit/s
95th percentile per-packet one-way delay: 1.091 ms
Loss rate: 0.41%

Run 2: Report of Sprout — Data Link

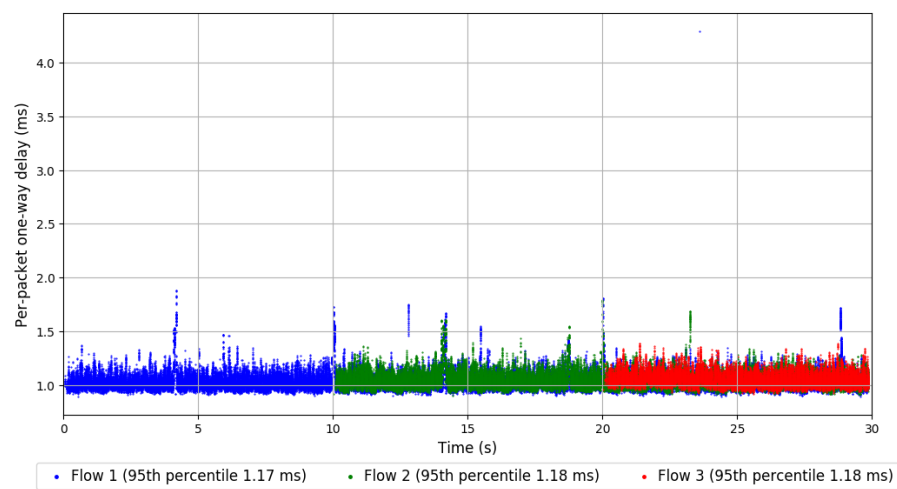
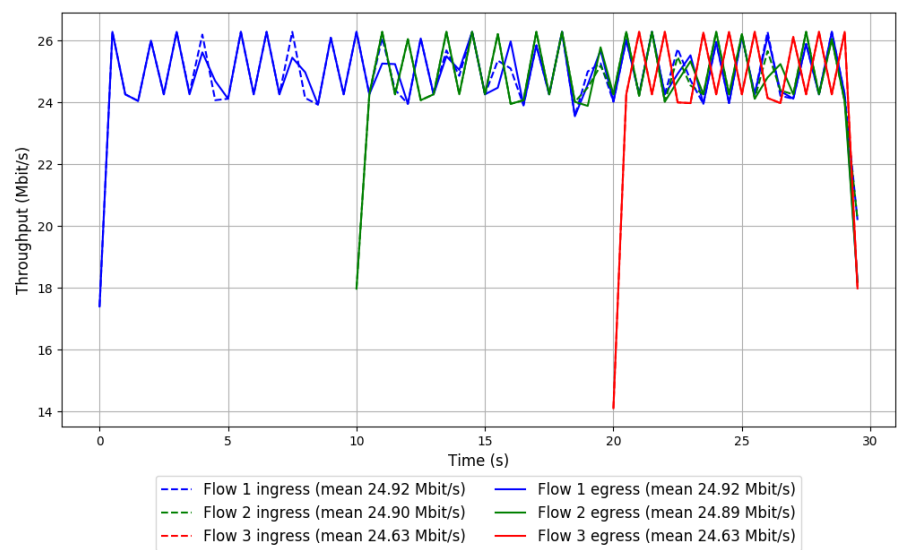


Run 3: Statistics of Sprout

Start at: 2017-11-16 08:14:34
End at: 2017-11-16 08:15:04
Local clock offset: 0.722 ms
Remote clock offset: -1.132 ms

```
# Below is generated by plot.py at 2017-11-16 15:07:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.52 Mbit/s
95th percentile per-packet one-way delay: 1.175 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 24.92 Mbit/s
95th percentile per-packet one-way delay: 1.173 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 24.89 Mbit/s
95th percentile per-packet one-way delay: 1.177 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 24.63 Mbit/s
95th percentile per-packet one-way delay: 1.177 ms
Loss rate: 0.00%
```


Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-16 08:35:24

End at: 2017-11-16 08:35:54

Local clock offset: 0.968 ms

Remote clock offset: -0.92 ms

Below is generated by plot.py at 2017-11-16 15:07:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.86 Mbit/s

95th percentile per-packet one-way delay: 1.132 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 24.30 Mbit/s

95th percentile per-packet one-way delay: 1.113 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 24.78 Mbit/s

95th percentile per-packet one-way delay: 1.143 ms

Loss rate: 0.00%

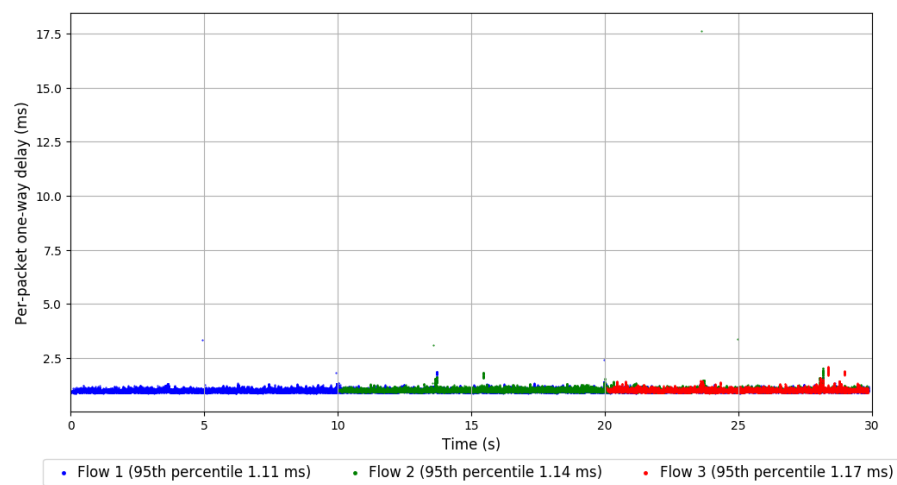
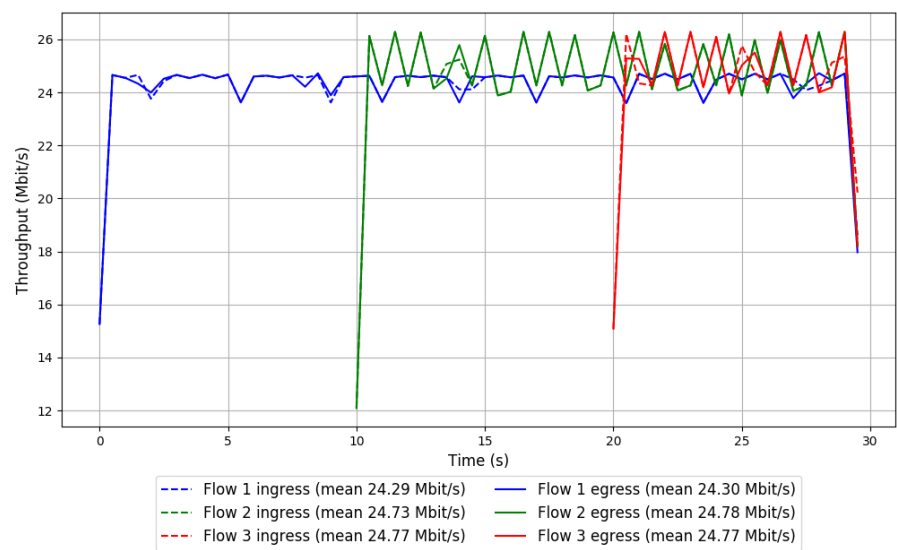
-- Flow 3:

Average throughput: 24.77 Mbit/s

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

Loss rate: 0.42%

Run 4: Report of Sprout — Data Link

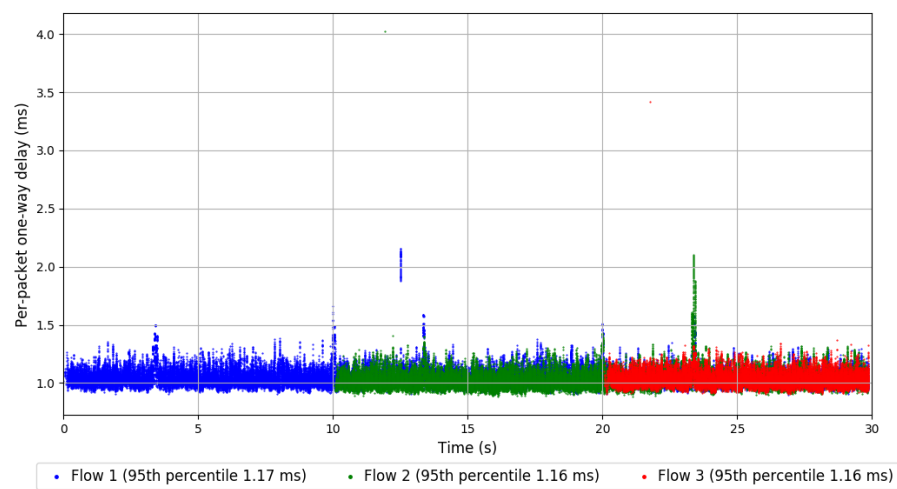
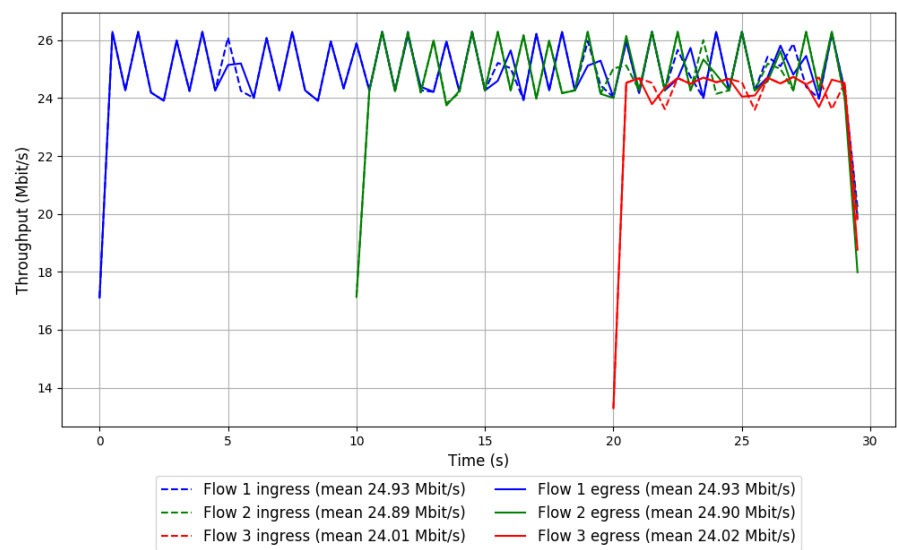


Run 5: Statistics of Sprout

Start at: 2017-11-16 08:56:04
End at: 2017-11-16 08:56:34
Local clock offset: 1.11 ms
Remote clock offset: -0.532 ms

```
# Below is generated by plot.py at 2017-11-16 15:07:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.33 Mbit/s
95th percentile per-packet one-way delay: 1.165 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 24.93 Mbit/s
95th percentile per-packet one-way delay: 1.168 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 24.90 Mbit/s
95th percentile per-packet one-way delay: 1.161 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 24.02 Mbit/s
95th percentile per-packet one-way delay: 1.160 ms
Loss rate: 0.19%
```

Run 5: Report of Sprout — Data Link

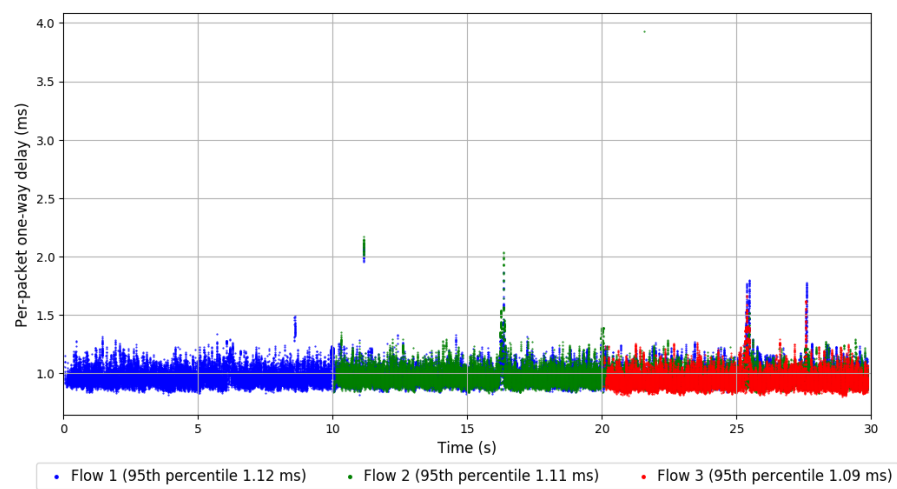
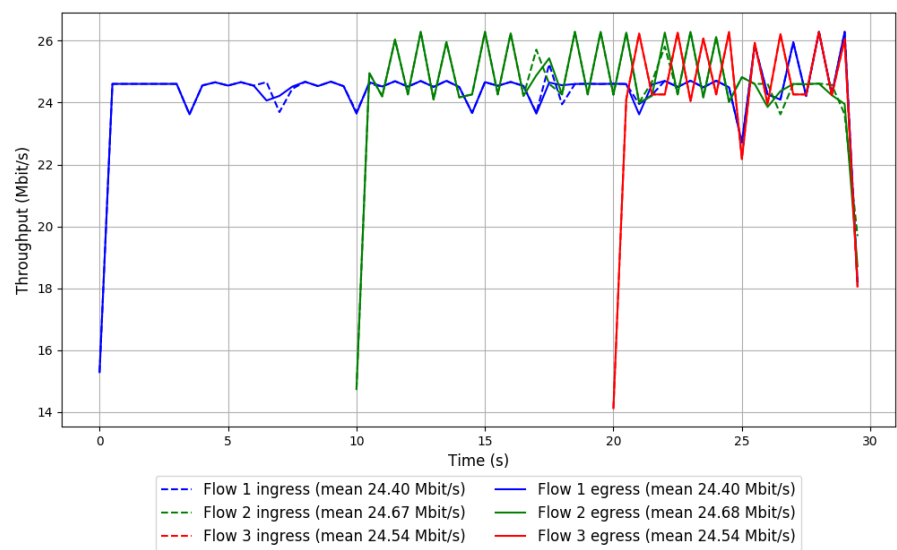


Run 6: Statistics of Sprout

Start at: 2017-11-16 09:16:25
End at: 2017-11-16 09:16:55
Local clock offset: 1.122 ms
Remote clock offset: -0.411 ms

Below is generated by plot.py at 2017-11-16 15:07:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.86 Mbit/s
95th percentile per-packet one-way delay: 1.113 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 24.40 Mbit/s
95th percentile per-packet one-way delay: 1.121 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.68 Mbit/s
95th percentile per-packet one-way delay: 1.107 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 24.54 Mbit/s
95th percentile per-packet one-way delay: 1.094 ms
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

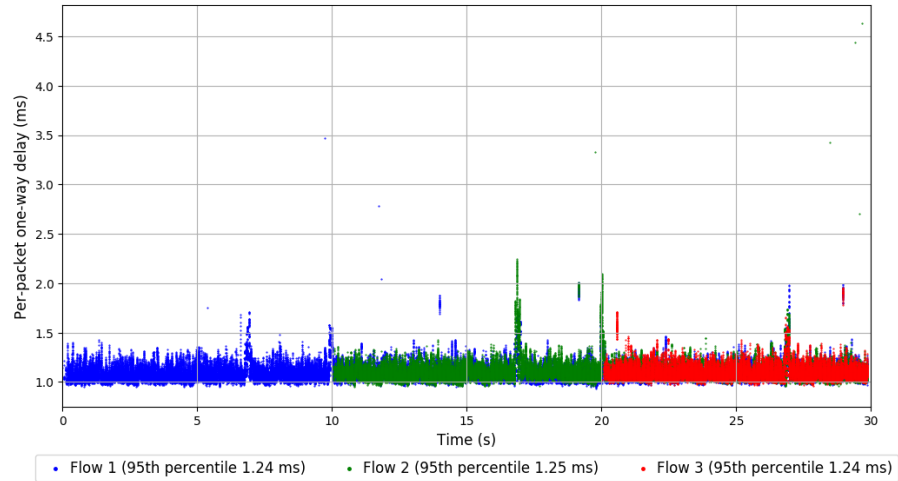
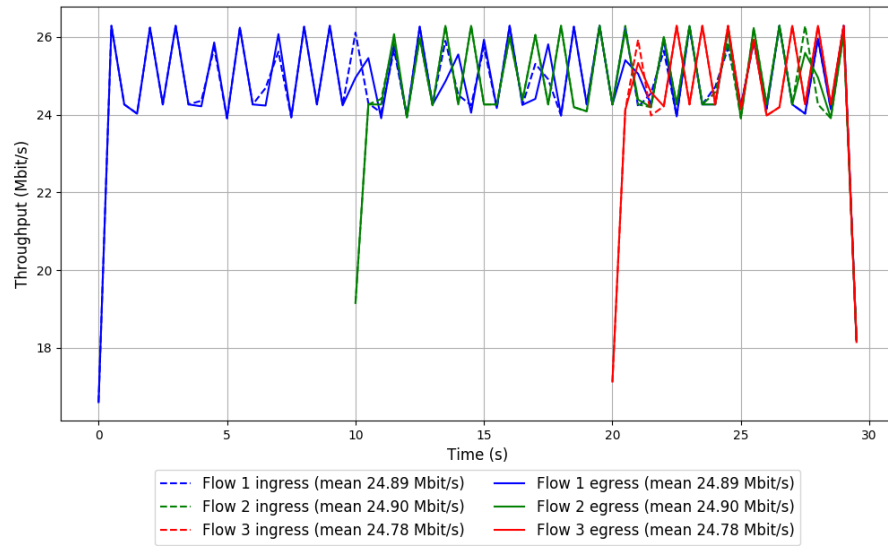


Run 7: Statistics of Sprout

Start at: 2017-11-16 09:36:54
End at: 2017-11-16 09:37:24
Local clock offset: 1.2 ms
Remote clock offset: -0.149 ms

```
# Below is generated by plot.py at 2017-11-16 15:07:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.59 Mbit/s
95th percentile per-packet one-way delay: 1.244 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.89 Mbit/s
95th percentile per-packet one-way delay: 1.240 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.90 Mbit/s
95th percentile per-packet one-way delay: 1.250 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.78 Mbit/s
95th percentile per-packet one-way delay: 1.244 ms
Loss rate: 0.00%
```


Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-16 09:57:05

End at: 2017-11-16 09:57:35

Local clock offset: 1.077 ms

Remote clock offset: 0.153 ms

Below is generated by plot.py at 2017-11-16 15:07:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.92 Mbit/s

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

Loss rate: 0.11%

-- Flow 1:

Average throughput: 24.30 Mbit/s

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

Loss rate: 0.08%

-- Flow 2:

Average throughput: 24.83 Mbit/s

95th percentile per-packet one-way delay: 1.143 ms

Loss rate: 0.00%

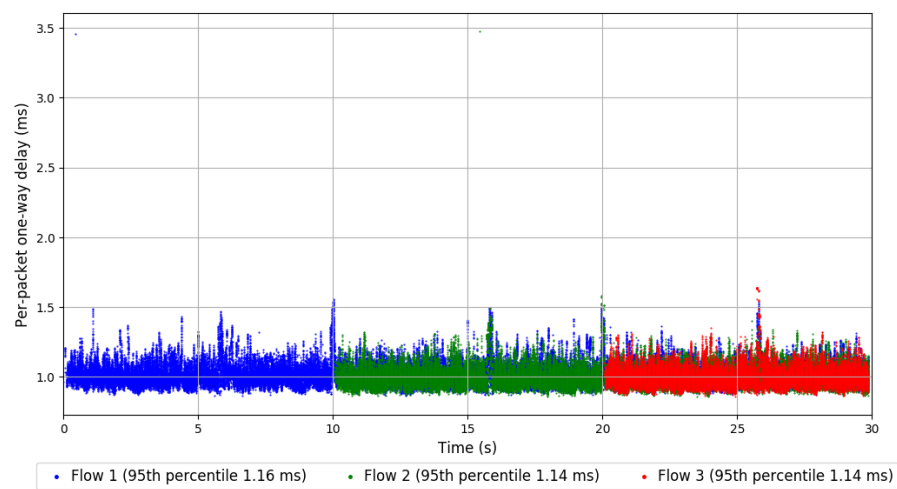
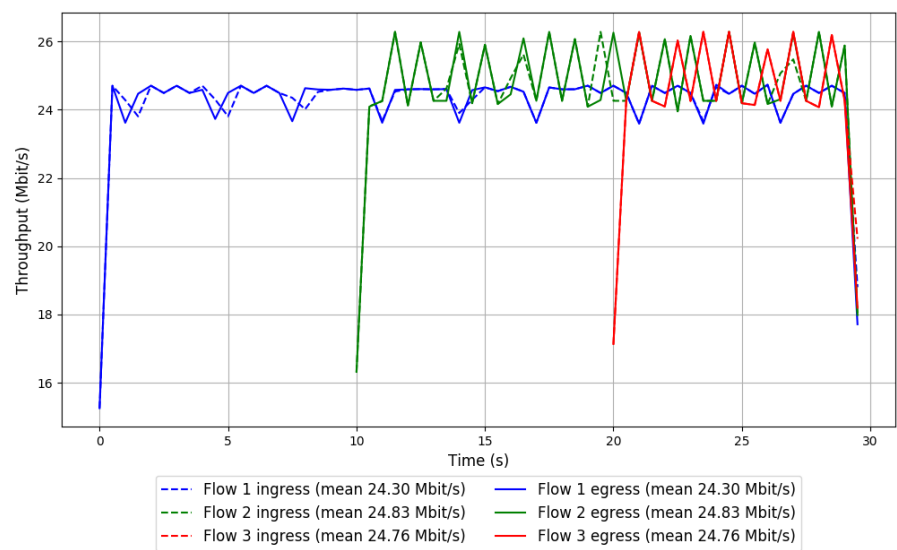
-- Flow 3:

Average throughput: 24.76 Mbit/s

95th percentile per-packet one-way delay: 1.143 ms

Loss rate: 0.42%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-16 10:17:34

End at: 2017-11-16 10:18:04

Local clock offset: 0.989 ms

Remote clock offset: 0.106 ms

Below is generated by plot.py at 2017-11-16 15:07:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.50 Mbit/s

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

Loss rate: 0.14%

-- Flow 1:

Average throughput: 24.96 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 24.82 Mbit/s

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

Loss rate: 0.20%

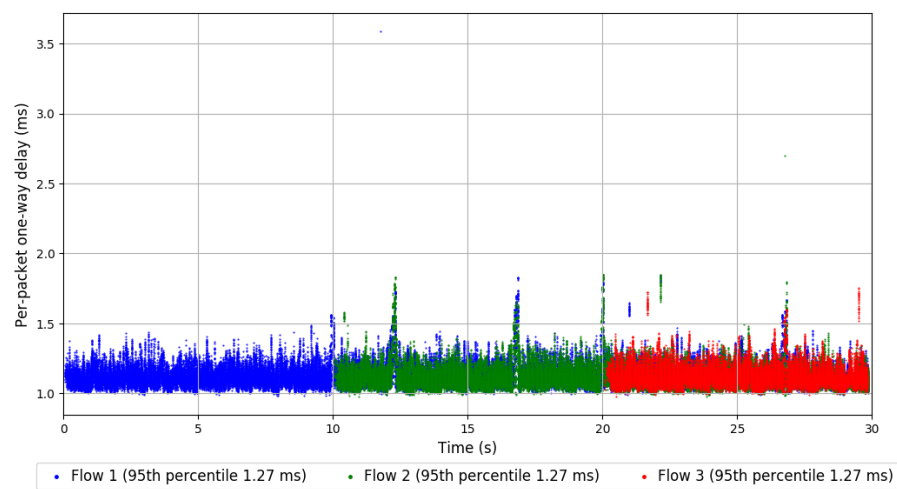
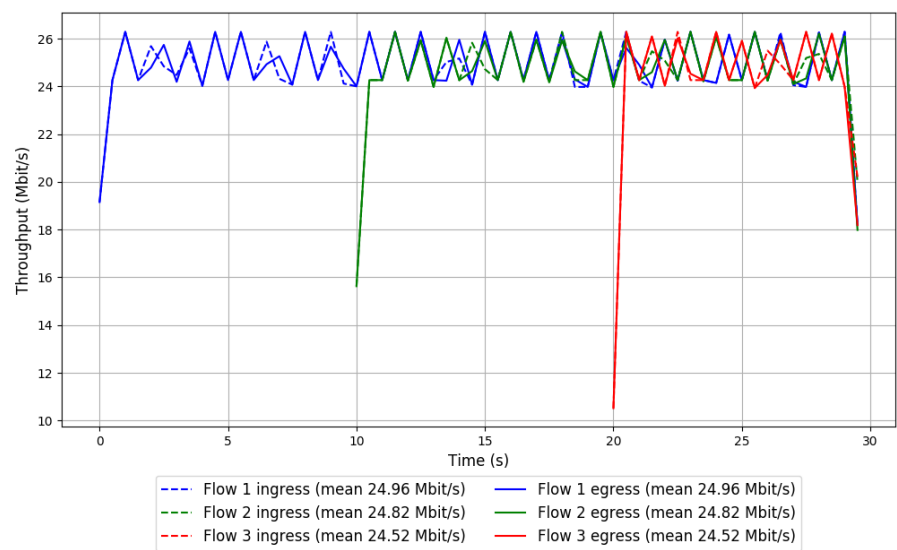
-- Flow 3:

Average throughput: 24.52 Mbit/s

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

Loss rate: 0.42%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-16 10:37:56

End at: 2017-11-16 10:38:26

Local clock offset: 0.973 ms

Remote clock offset: 0.064 ms

Below is generated by plot.py at 2017-11-16 15:07:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.46 Mbit/s

95th percentile per-packet one-way delay: 1.323 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 24.90 Mbit/s

95th percentile per-packet one-way delay: 1.321 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 24.79 Mbit/s

95th percentile per-packet one-way delay: 1.327 ms

Loss rate: 0.00%

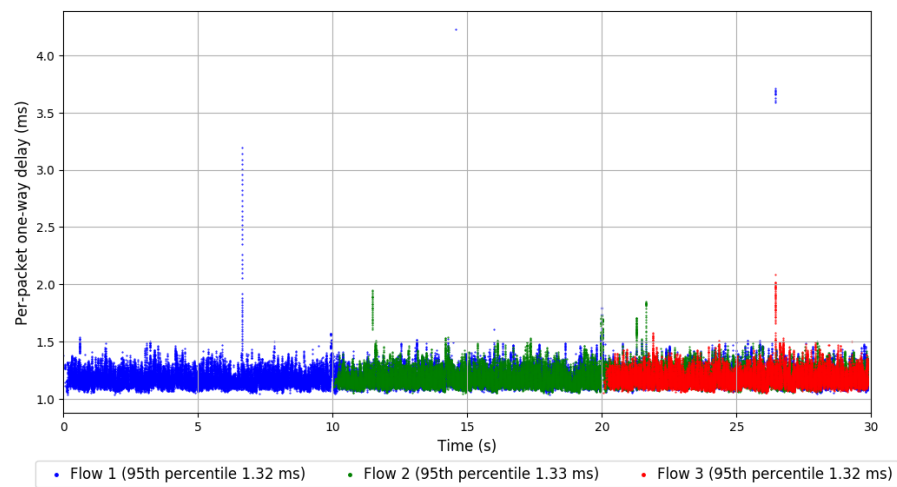
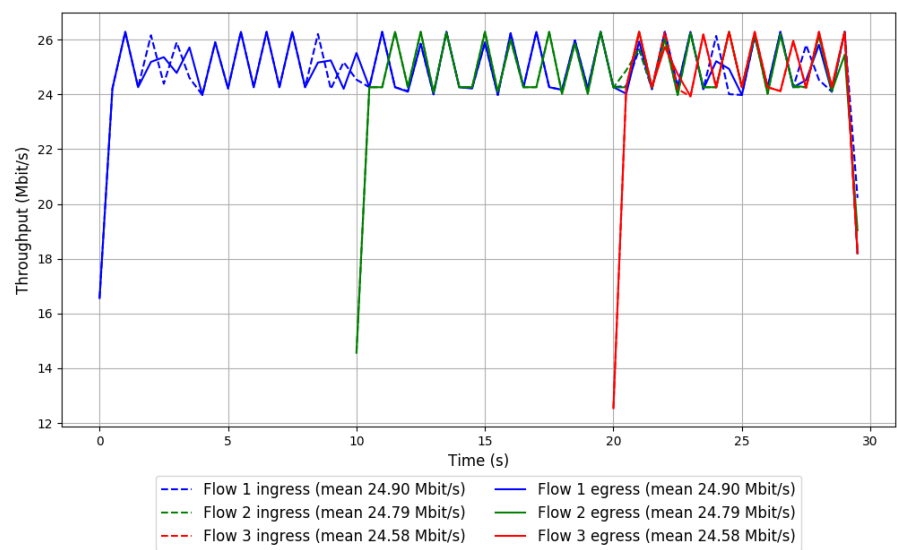
-- Flow 3:

Average throughput: 24.58 Mbit/s

95th percentile per-packet one-way delay: 1.320 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

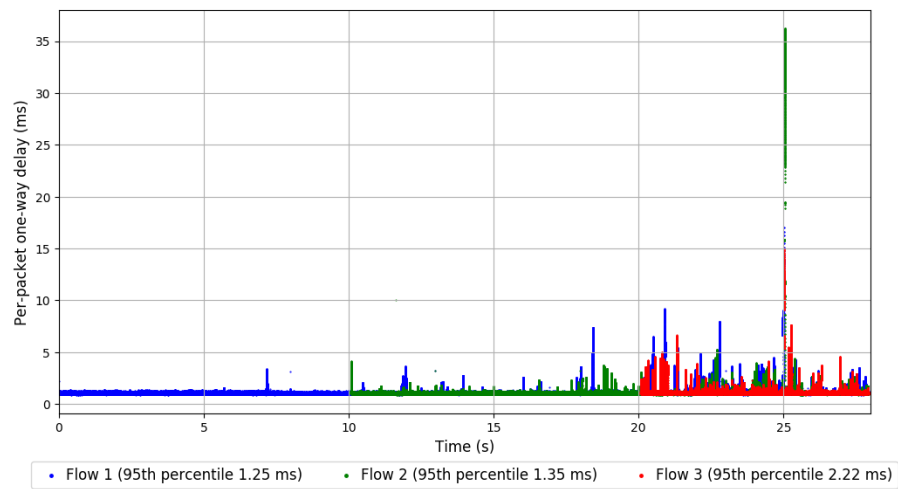
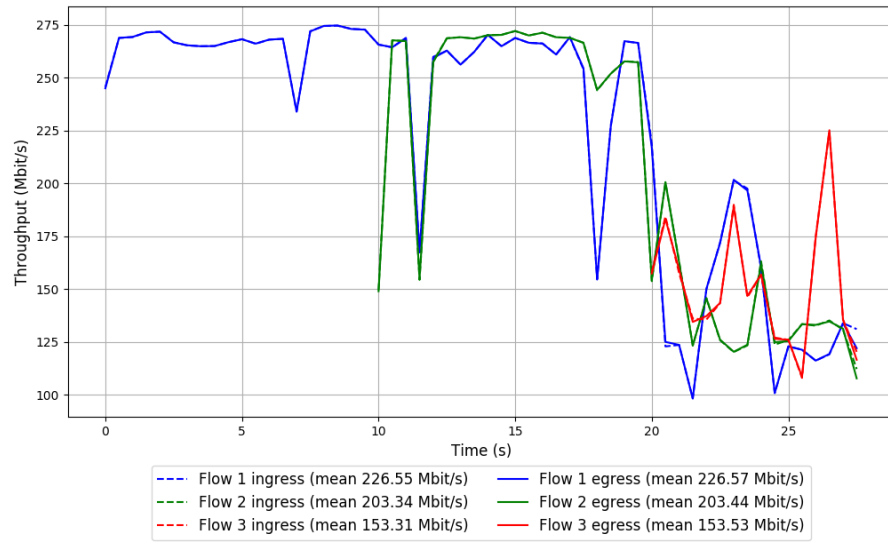


Run 1: Statistics of TaoVA-100x

Start at: 2017-11-16 07:24:19
End at: 2017-11-16 07:24:49
Local clock offset: 0.806 ms
Remote clock offset: -2.127 ms

Below is generated by plot.py at 2017-11-16 15:16:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 400.29 Mbit/s
95th percentile per-packet one-way delay: 1.383 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 226.57 Mbit/s
95th percentile per-packet one-way delay: 1.248 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 203.44 Mbit/s
95th percentile per-packet one-way delay: 1.350 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 153.53 Mbit/s
95th percentile per-packet one-way delay: 2.217 ms
Loss rate: 0.16%

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

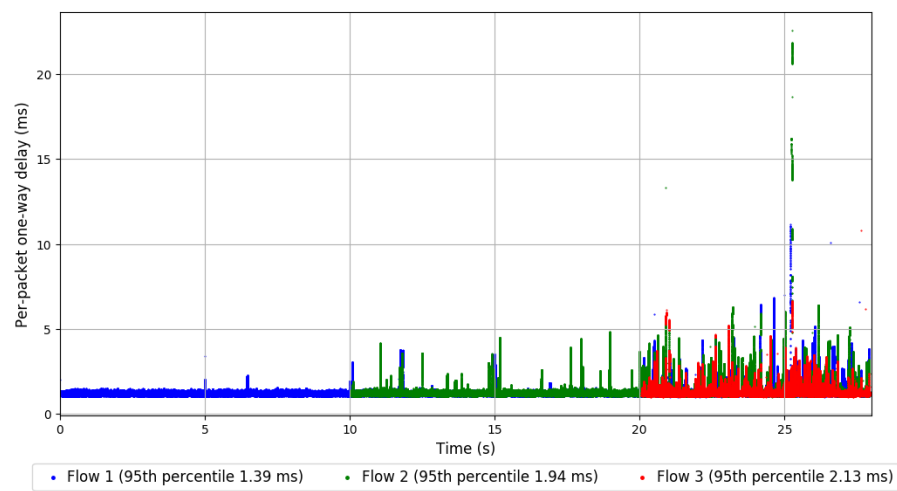
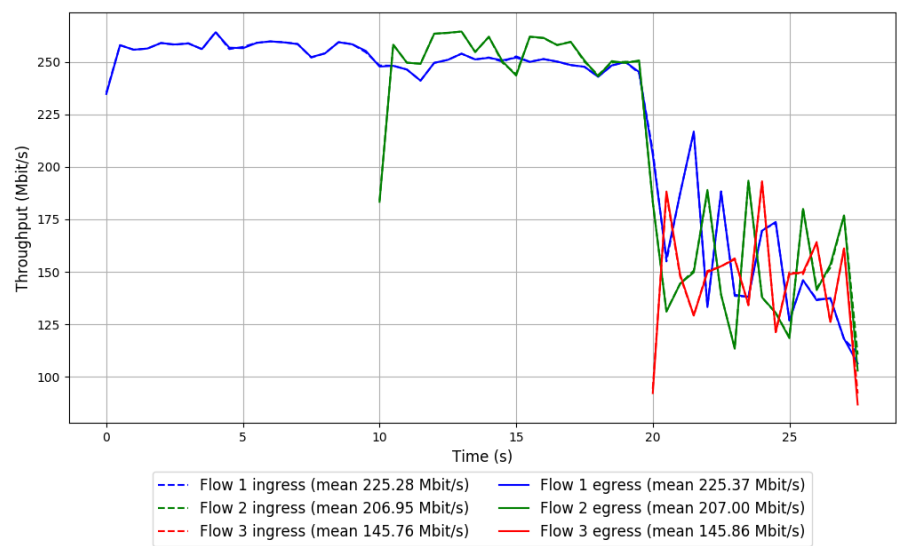


Run 2: Statistics of TaoVA-100x

Start at: 2017-11-16 07:44:59
End at: 2017-11-16 07:45:29
Local clock offset: 0.711 ms
Remote clock offset: -1.404 ms

Below is generated by plot.py at 2017-11-16 15:16:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 399.26 Mbit/s
95th percentile per-packet one-way delay: 1.632 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 225.37 Mbit/s
95th percentile per-packet one-way delay: 1.389 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 207.00 Mbit/s
95th percentile per-packet one-way delay: 1.939 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 145.86 Mbit/s
95th percentile per-packet one-way delay: 2.129 ms
Loss rate: 0.23%

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

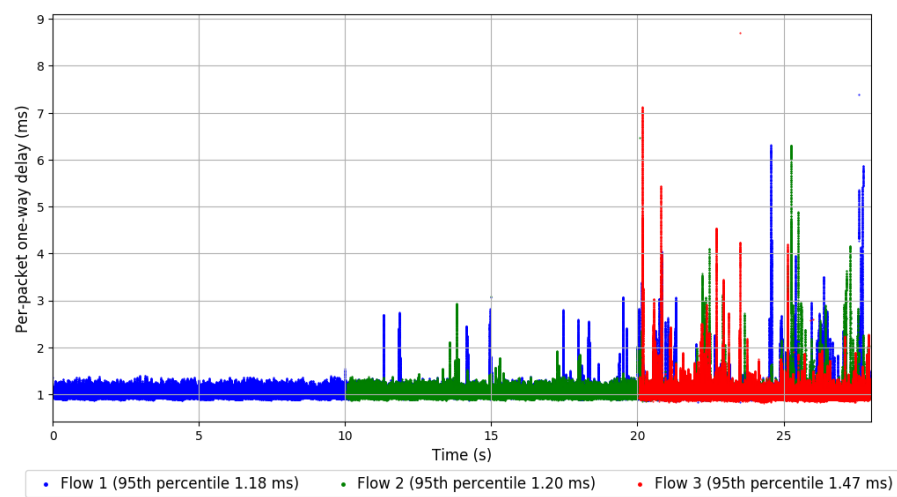
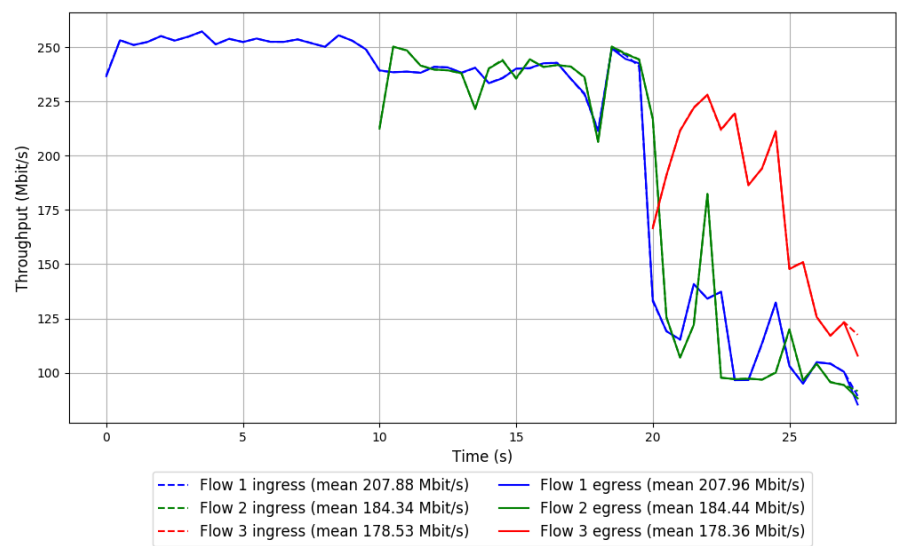


Run 3: Statistics of TaoVA-100x

Start at: 2017-11-16 08:05:39
End at: 2017-11-16 08:06:09
Local clock offset: 0.647 ms
Remote clock offset: -1.079 ms

Below is generated by plot.py at 2017-11-16 15:16:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 376.57 Mbit/s
95th percentile per-packet one-way delay: 1.213 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 207.96 Mbit/s
95th percentile per-packet one-way delay: 1.184 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 184.44 Mbit/s
95th percentile per-packet one-way delay: 1.196 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 178.36 Mbit/s
95th percentile per-packet one-way delay: 1.472 ms
Loss rate: 0.35%

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

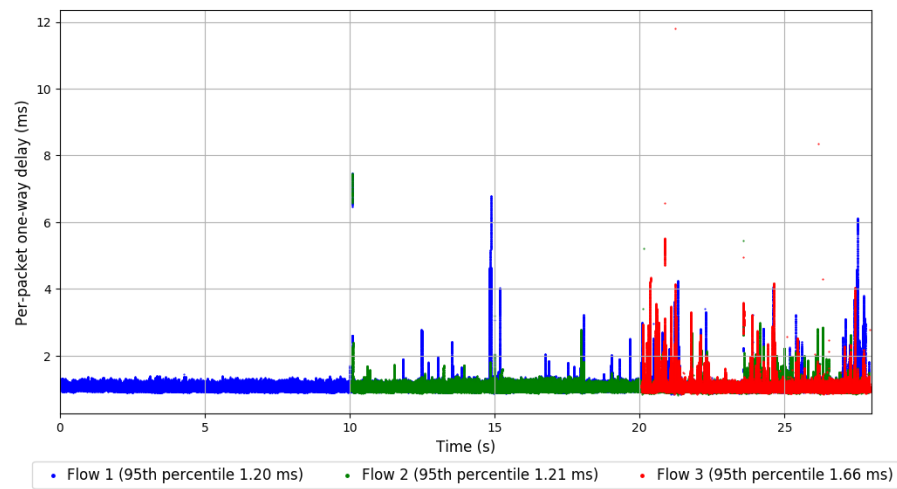
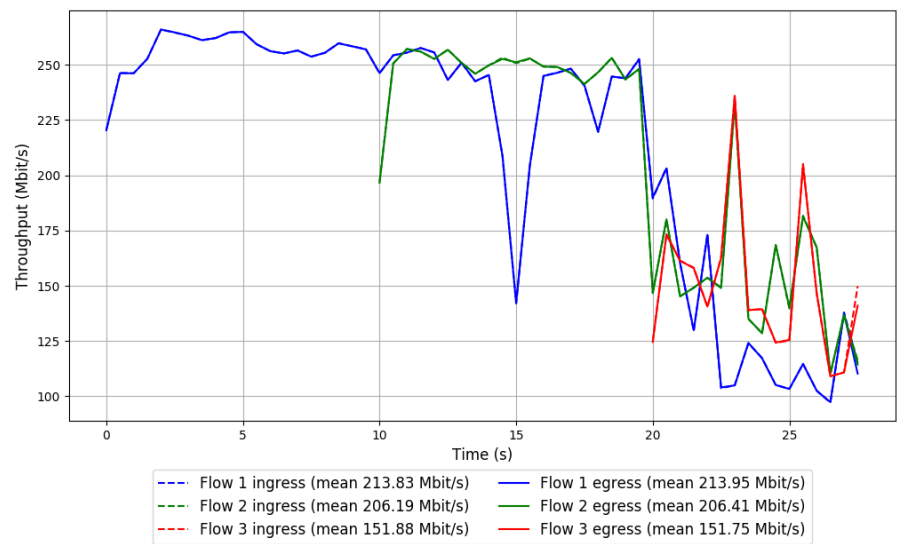


Run 4: Statistics of TaoVA-100x

Start at: 2017-11-16 08:26:25
End at: 2017-11-16 08:26:55
Local clock offset: 0.971 ms
Remote clock offset: -0.972 ms

Below is generated by plot.py at 2017-11-16 15:16:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 389.11 Mbit/s
95th percentile per-packet one-way delay: 1.222 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 213.95 Mbit/s
95th percentile per-packet one-way delay: 1.199 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 206.41 Mbit/s
95th percentile per-packet one-way delay: 1.209 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 151.75 Mbit/s
95th percentile per-packet one-way delay: 1.662 ms
Loss rate: 0.37%

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

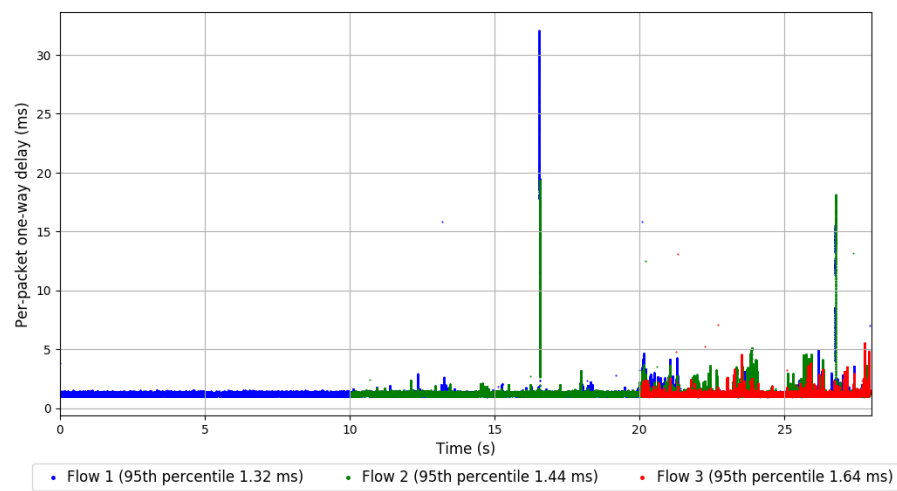
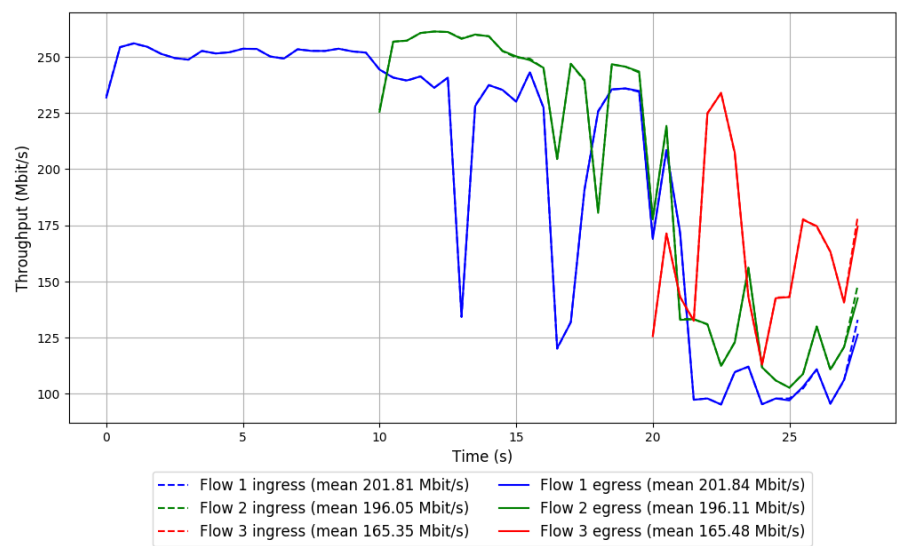


Run 5: Statistics of TaoVA-100x

Start at: 2017-11-16 08:47:10
End at: 2017-11-16 08:47:40
Local clock offset: 1.154 ms
Remote clock offset: -0.808 ms

Below is generated by plot.py at 2017-11-16 15:16:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 374.32 Mbit/s
95th percentile per-packet one-way delay: 1.372 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 201.84 Mbit/s
95th percentile per-packet one-way delay: 1.316 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 196.11 Mbit/s
95th percentile per-packet one-way delay: 1.435 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 165.48 Mbit/s
95th percentile per-packet one-way delay: 1.640 ms
Loss rate: 0.18%

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

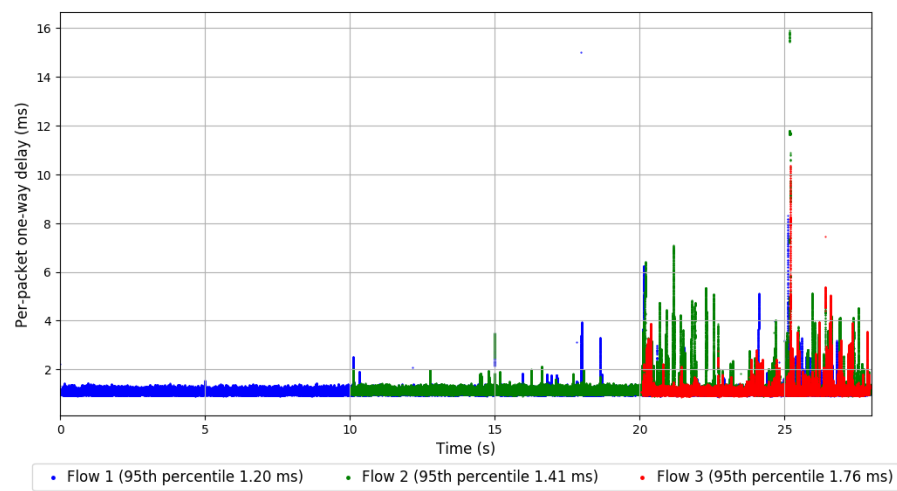
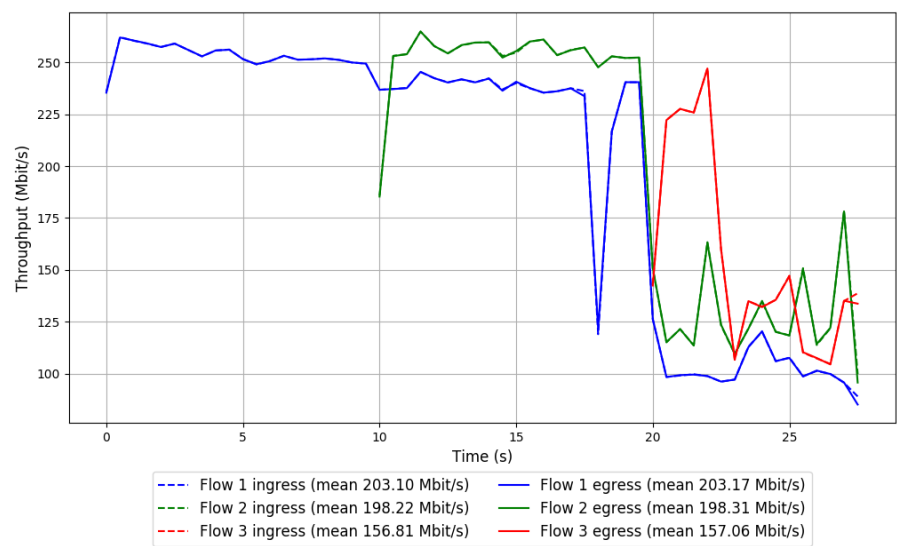


Run 6: Statistics of TaoVA-100x

Start at: 2017-11-16 09:07:34
End at: 2017-11-16 09:08:04
Local clock offset: 1.234 ms
Remote clock offset: -0.534 ms

Below is generated by plot.py at 2017-11-16 15:16:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 374.55 Mbit/s
95th percentile per-packet one-way delay: 1.275 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 203.17 Mbit/s
95th percentile per-packet one-way delay: 1.201 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 198.31 Mbit/s
95th percentile per-packet one-way delay: 1.412 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 157.06 Mbit/s
95th percentile per-packet one-way delay: 1.762 ms
Loss rate: 0.21%

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

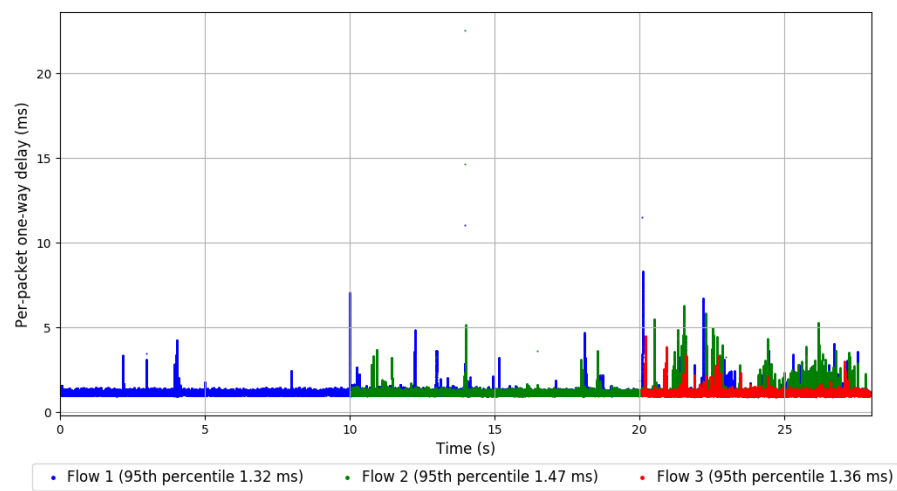
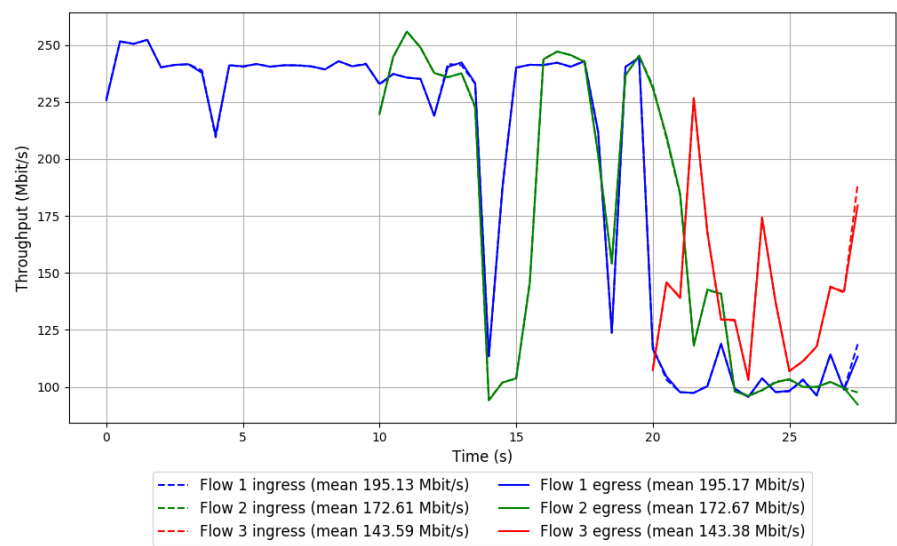


Run 7: Statistics of TaoVA-100x

Start at: 2017-11-16 09:28:05
End at: 2017-11-16 09:28:35
Local clock offset: 1.21 ms
Remote clock offset: -0.346 ms

Below is generated by plot.py at 2017-11-16 15:16:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 346.35 Mbit/s
95th percentile per-packet one-way delay: 1.350 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 195.17 Mbit/s
95th percentile per-packet one-way delay: 1.323 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 172.67 Mbit/s
95th percentile per-packet one-way delay: 1.468 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 143.38 Mbit/s
95th percentile per-packet one-way delay: 1.365 ms
Loss rate: 0.41%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-16 09:48:12

End at: 2017-11-16 09:48:42

Local clock offset: 1.226 ms

Remote clock offset: 0.098 ms

Below is generated by plot.py at 2017-11-16 15:16:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 366.48 Mbit/s

95th percentile per-packet one-way delay: 1.391 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 196.45 Mbit/s

95th percentile per-packet one-way delay: 1.319 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 205.16 Mbit/s

95th percentile per-packet one-way delay: 1.411 ms

Loss rate: 0.06%

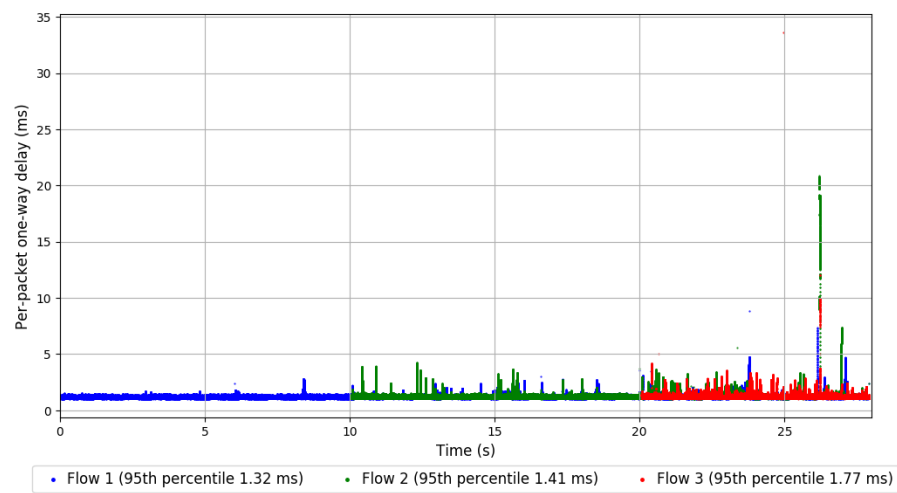
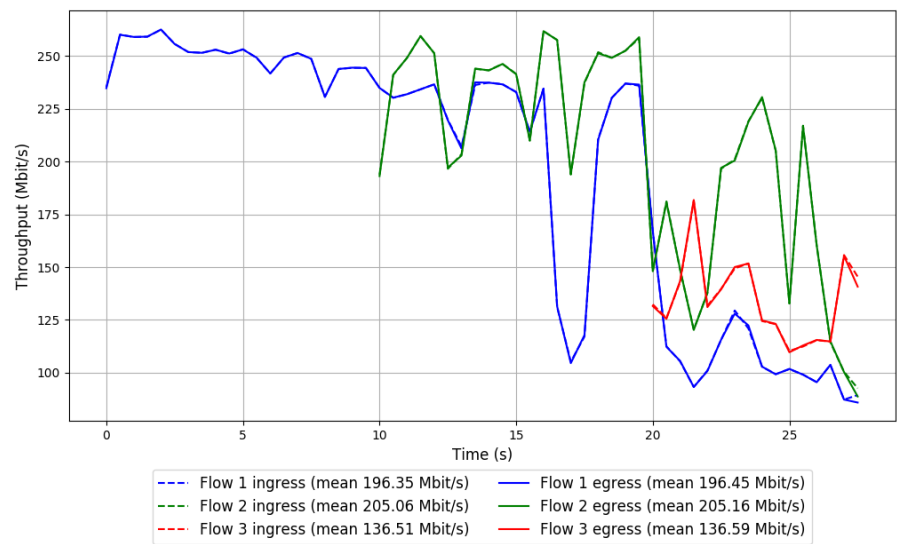
-- Flow 3:

Average throughput: 136.59 Mbit/s

95th percentile per-packet one-way delay: 1.767 ms

Loss rate: 0.24%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-11-16 10:08:46

End at: 2017-11-16 10:09:16

Local clock offset: 1.073 ms

Remote clock offset: 0.057 ms

Below is generated by plot.py at 2017-11-16 15:24:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 378.08 Mbit/s

95th percentile per-packet one-way delay: 1.504 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 208.30 Mbit/s

95th percentile per-packet one-way delay: 1.426 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 204.66 Mbit/s

95th percentile per-packet one-way delay: 1.479 ms

Loss rate: 0.13%

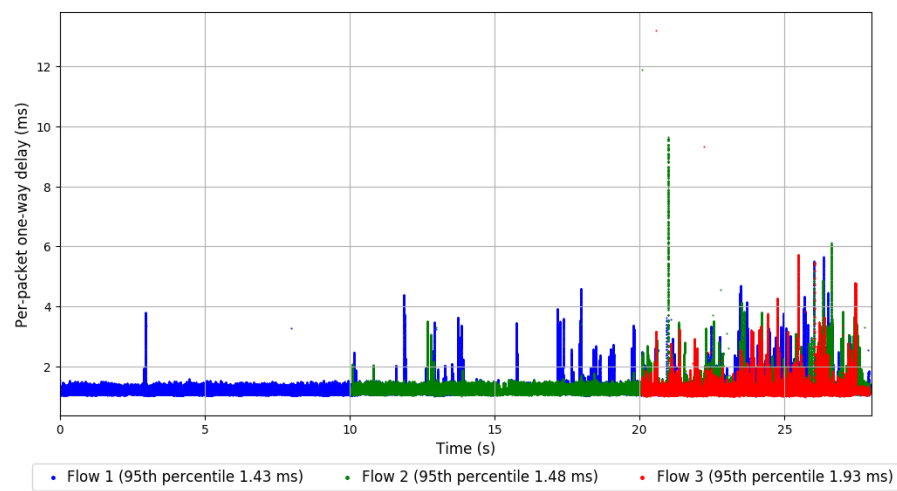
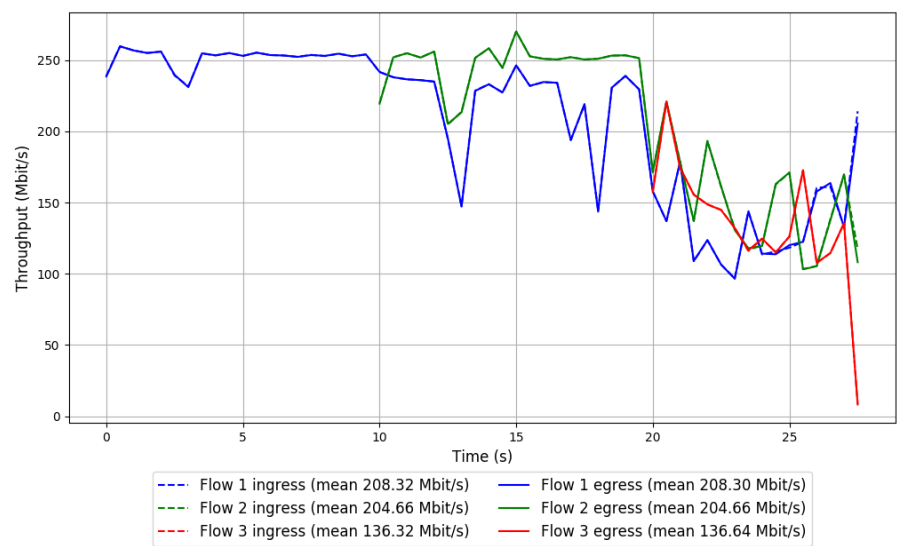
-- Flow 3:

Average throughput: 136.64 Mbit/s

95th percentile per-packet one-way delay: 1.925 ms

Loss rate: 0.02%

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



Run 10: Statistics of TaoVA-100x

Start at: 2017-11-16 10:29:07

End at: 2017-11-16 10:29:37

Local clock offset: 0.822 ms

Remote clock offset: 0.034 ms

Below is generated by plot.py at 2017-11-16 15:24:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 355.06 Mbit/s

95th percentile per-packet one-way delay: 1.291 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 192.86 Mbit/s

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

Loss rate: 0.03%

-- Flow 2:

Average throughput: 197.52 Mbit/s

95th percentile per-packet one-way delay: 1.283 ms

Loss rate: 0.06%

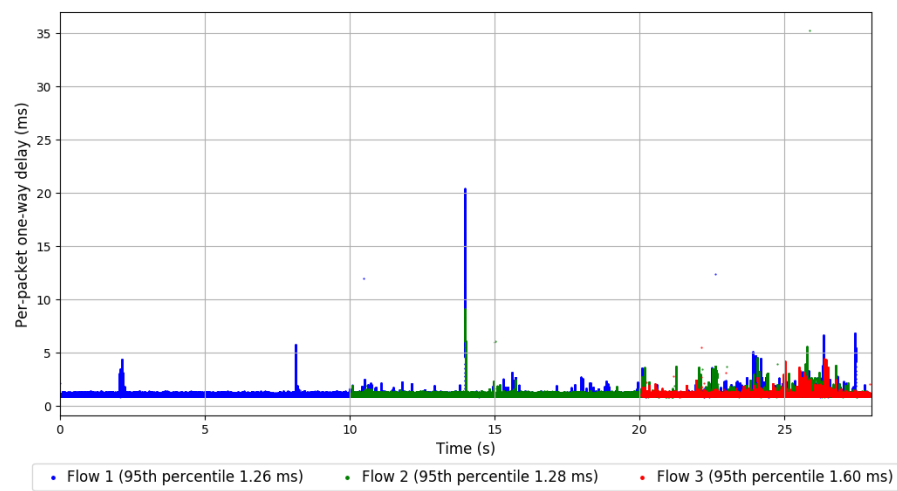
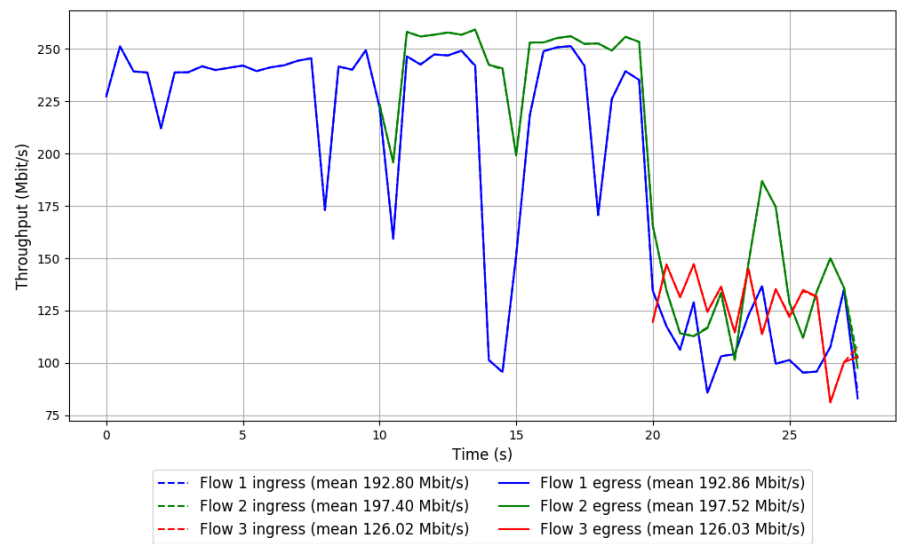
-- Flow 3:

Average throughput: 126.03 Mbit/s

95th percentile per-packet one-way delay: 1.599 ms

Loss rate: 0.25%

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

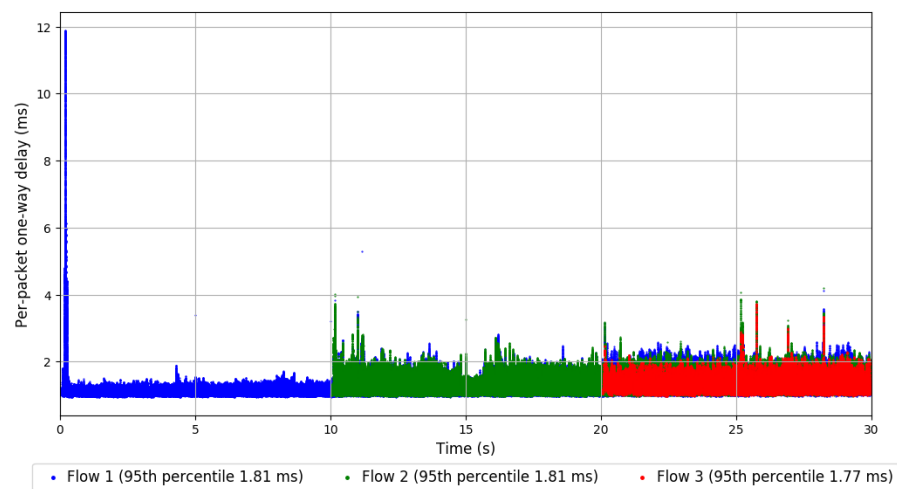
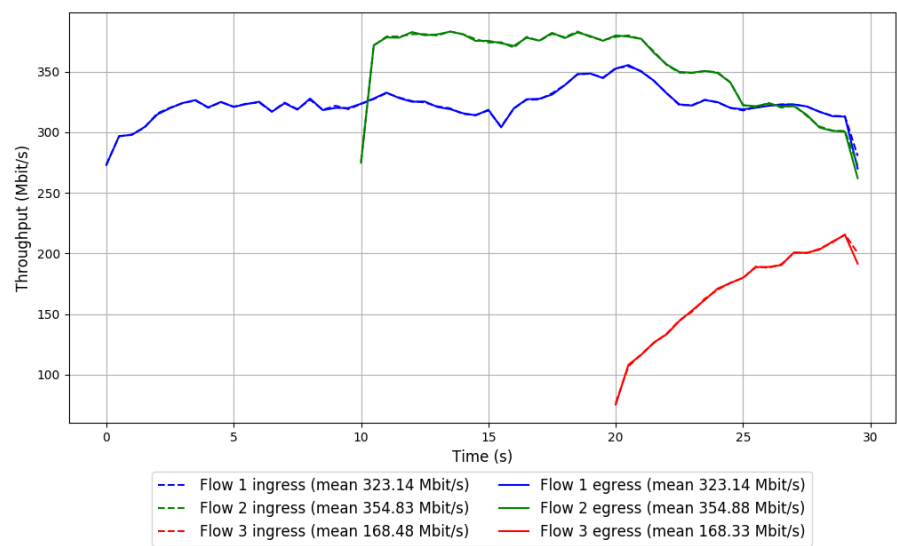


Run 1: Statistics of TCP Vegas

Start at: 2017-11-16 07:31:43
End at: 2017-11-16 07:32:13
Local clock offset: 0.835 ms
Remote clock offset: -1.811 ms

Below is generated by plot.py at 2017-11-16 15:24:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 615.08 Mbit/s
95th percentile per-packet one-way delay: 1.803 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 323.14 Mbit/s
95th percentile per-packet one-way delay: 1.806 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 354.88 Mbit/s
95th percentile per-packet one-way delay: 1.807 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 168.33 Mbit/s
95th percentile per-packet one-way delay: 1.772 ms
Loss rate: 0.28%

Run 1: Report of TCP Vegas — Data Link

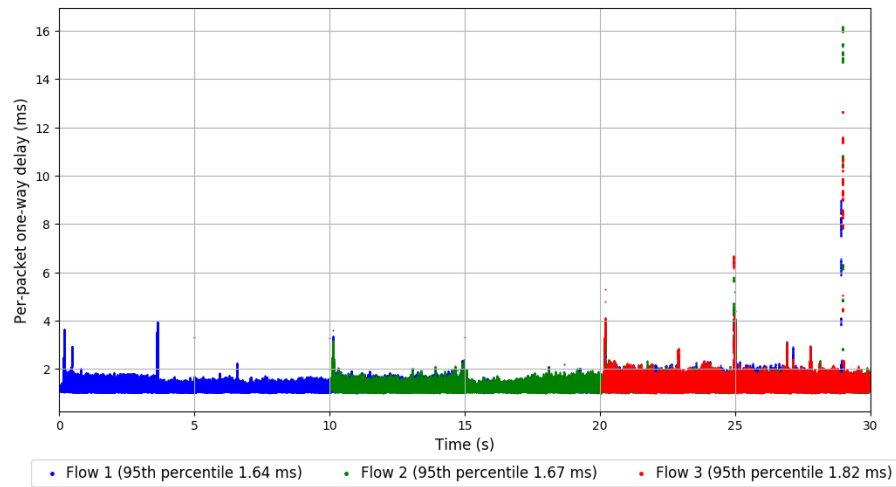
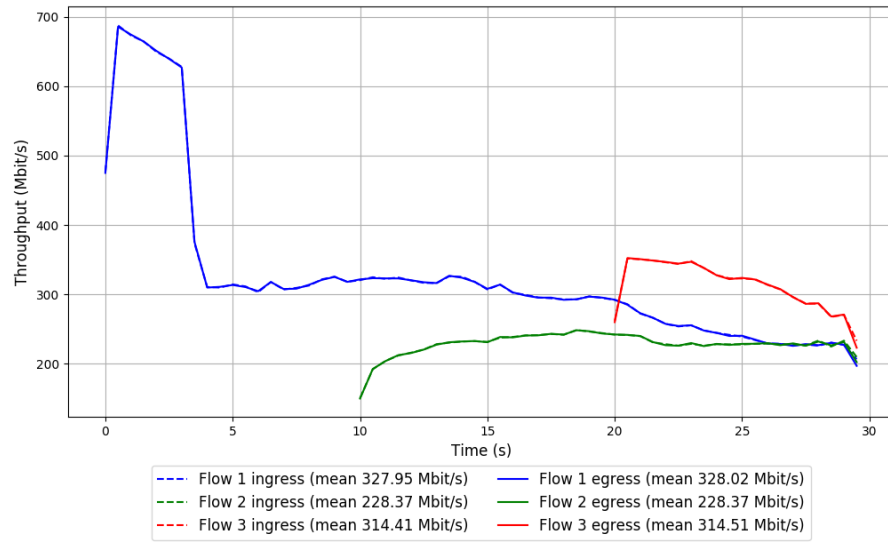


Run 2: Statistics of TCP Vegas

Start at: 2017-11-16 07:52:19
End at: 2017-11-16 07:52:49
Local clock offset: 0.714 ms
Remote clock offset: -1.357 ms

Below is generated by plot.py at 2017-11-16 15:24:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 584.14 Mbit/s
95th percentile per-packet one-way delay: 1.701 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 328.02 Mbit/s
95th percentile per-packet one-way delay: 1.643 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 228.37 Mbit/s
95th percentile per-packet one-way delay: 1.670 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 314.51 Mbit/s
95th percentile per-packet one-way delay: 1.824 ms
Loss rate: 0.16%

Run 2: Report of TCP Vegas — Data Link

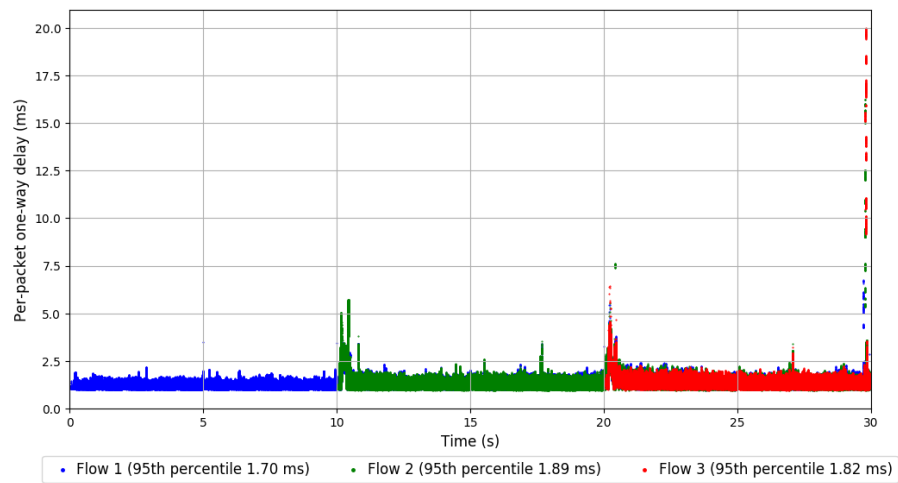
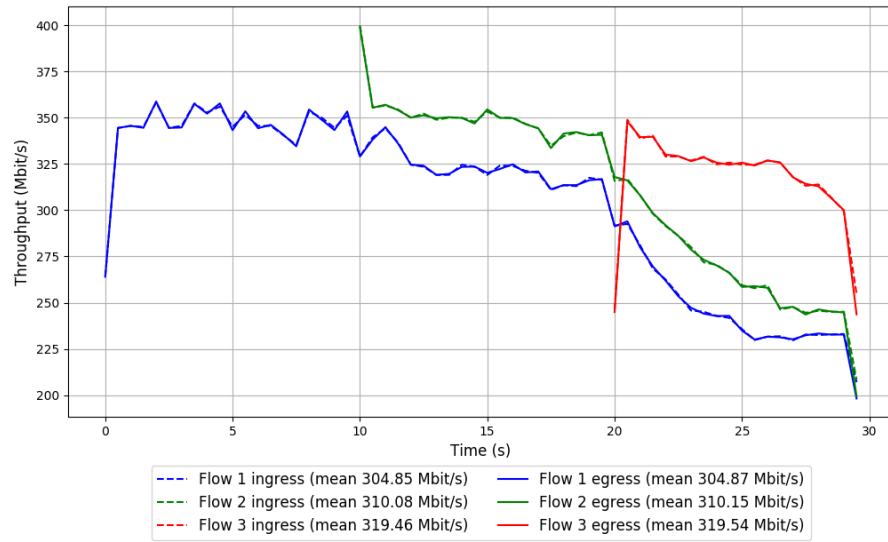


Run 3: Statistics of TCP Vegas

Start at: 2017-11-16 08:12:57
End at: 2017-11-16 08:13:27
Local clock offset: 0.807 ms
Remote clock offset: -1.097 ms

Below is generated by plot.py at 2017-11-16 15:25:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 617.16 Mbit/s
95th percentile per-packet one-way delay: 1.778 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 304.87 Mbit/s
95th percentile per-packet one-way delay: 1.701 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 310.15 Mbit/s
95th percentile per-packet one-way delay: 1.890 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 319.54 Mbit/s
95th percentile per-packet one-way delay: 1.821 ms
Loss rate: 0.19%

Run 3: Report of TCP Vegas — Data Link

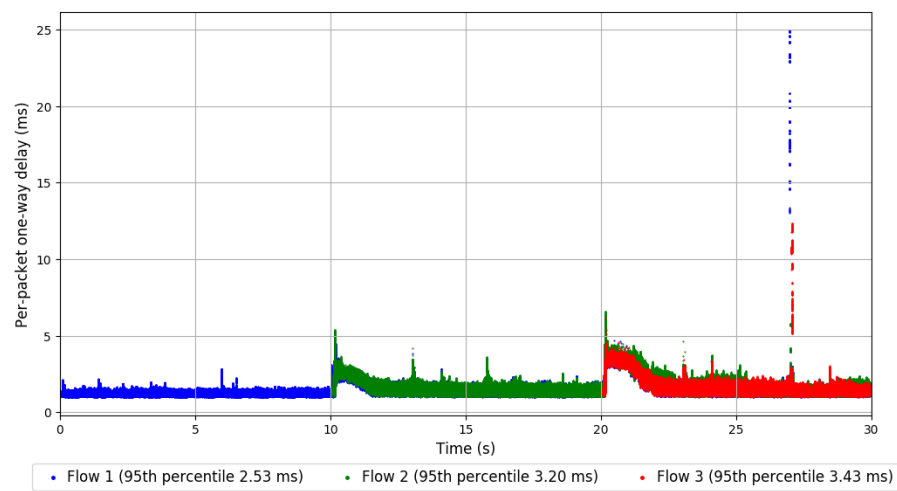
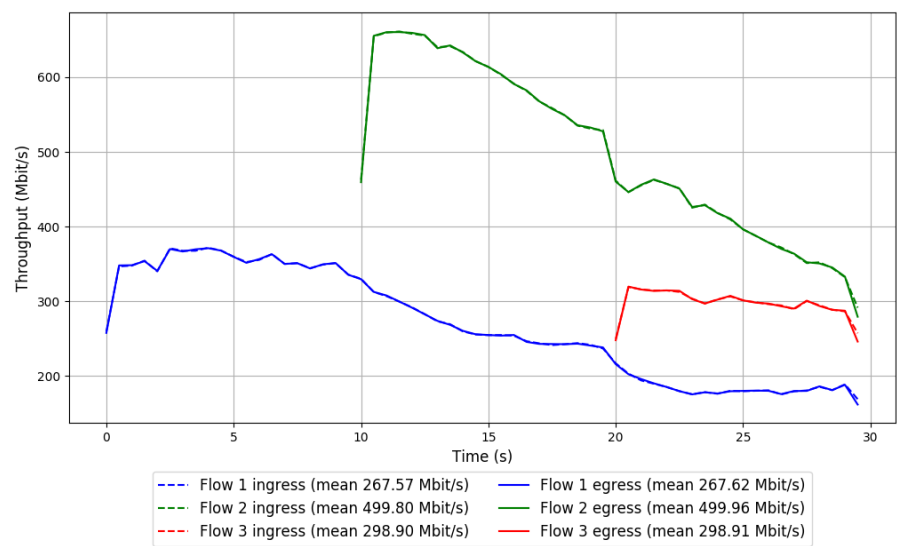


Run 4: Statistics of TCP Vegas

Start at: 2017-11-16 08:33:45
End at: 2017-11-16 08:34:15
Local clock offset: 1.04 ms
Remote clock offset: -0.987 ms

```
# Below is generated by plot.py at 2017-11-16 15:26:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 699.54 Mbit/s
95th percentile per-packet one-way delay: 3.121 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 267.62 Mbit/s
95th percentile per-packet one-way delay: 2.527 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 499.96 Mbit/s
95th percentile per-packet one-way delay: 3.199 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 298.91 Mbit/s
95th percentile per-packet one-way delay: 3.426 ms
Loss rate: 0.19%
```

Run 4: Report of TCP Vegas — Data Link

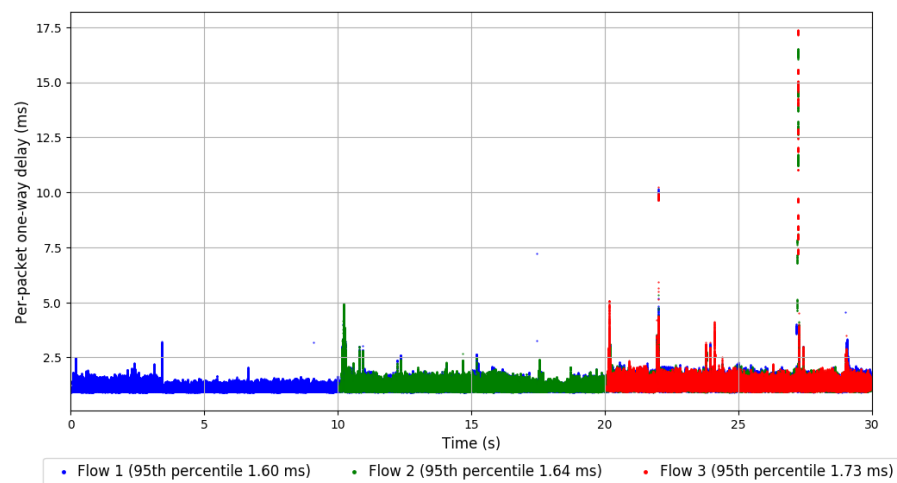
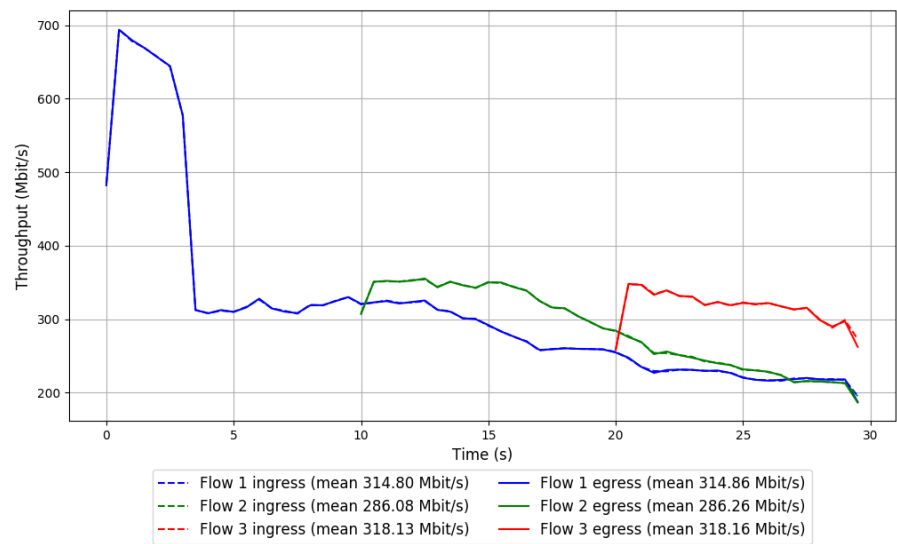


Run 5: Statistics of TCP Vegas

Start at: 2017-11-16 08:54:29
End at: 2017-11-16 08:54:59
Local clock offset: 1.106 ms
Remote clock offset: -0.609 ms

Below is generated by plot.py at 2017-11-16 15:26:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 610.79 Mbit/s
95th percentile per-packet one-way delay: 1.641 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 314.86 Mbit/s
95th percentile per-packet one-way delay: 1.596 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 286.26 Mbit/s
95th percentile per-packet one-way delay: 1.638 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 318.16 Mbit/s
95th percentile per-packet one-way delay: 1.727 ms
Loss rate: 0.19%

Run 5: Report of TCP Vegas — Data Link

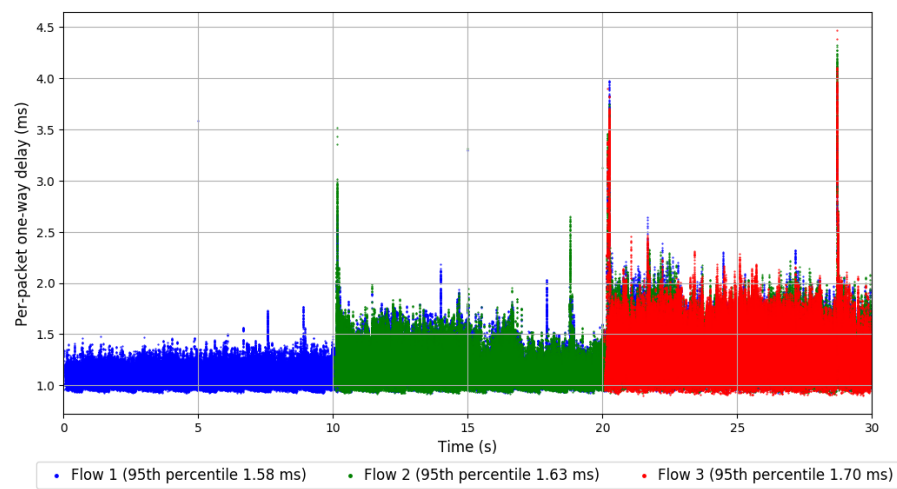
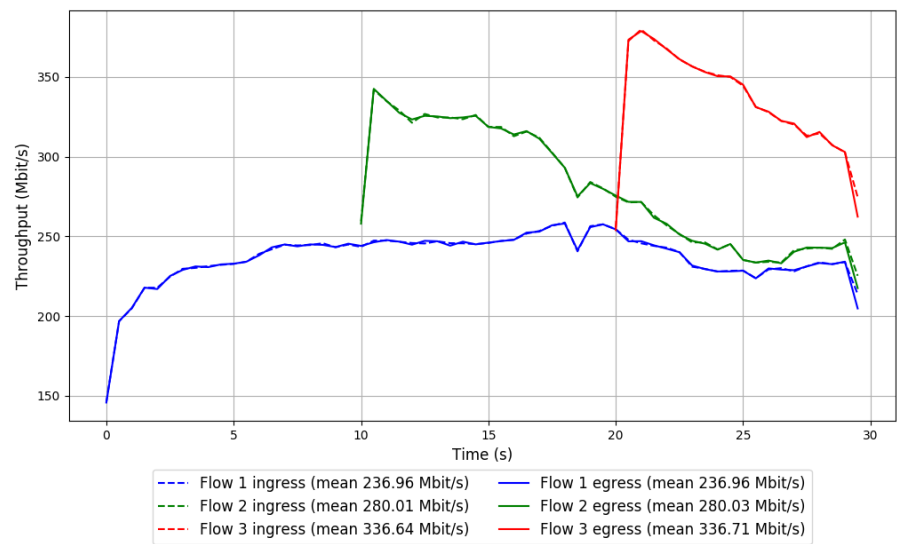


Run 6: Statistics of TCP Vegas

Start at: 2017-11-16 09:14:52
End at: 2017-11-16 09:15:22
Local clock offset: 1.123 ms
Remote clock offset: -0.514 ms

Below is generated by plot.py at 2017-11-16 15:26:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 534.69 Mbit/s
95th percentile per-packet one-way delay: 1.635 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 236.96 Mbit/s
95th percentile per-packet one-way delay: 1.583 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 280.03 Mbit/s
95th percentile per-packet one-way delay: 1.631 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 336.71 Mbit/s
95th percentile per-packet one-way delay: 1.703 ms
Loss rate: 0.18%

Run 6: Report of TCP Vegas — Data Link

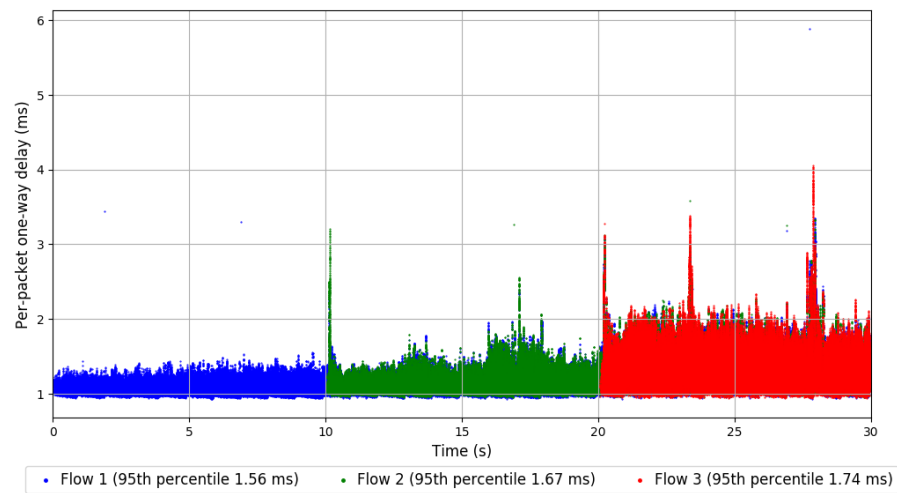
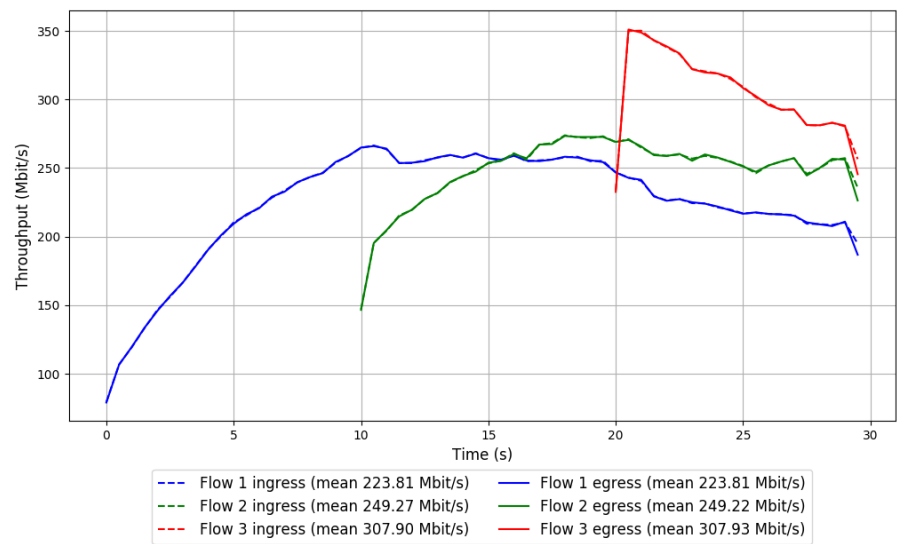


Run 7: Statistics of TCP Vegas

Start at: 2017-11-16 09:35:23
End at: 2017-11-16 09:35:53
Local clock offset: 1.229 ms
Remote clock offset: -0.147 ms

Below is generated by plot.py at 2017-11-16 15:31:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 491.43 Mbit/s
95th percentile per-packet one-way delay: 1.655 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 223.81 Mbit/s
95th percentile per-packet one-way delay: 1.564 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 249.22 Mbit/s
95th percentile per-packet one-way delay: 1.669 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 307.93 Mbit/s
95th percentile per-packet one-way delay: 1.737 ms
Loss rate: 0.19%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-11-16 09:55:31

End at: 2017-11-16 09:56:01

Local clock offset: 1.084 ms

Remote clock offset: 0.09 ms

Below is generated by plot.py at 2017-11-16 15:32:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 583.41 Mbit/s

95th percentile per-packet one-way delay: 3.241 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 217.09 Mbit/s

95th percentile per-packet one-way delay: 3.134 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 286.31 Mbit/s

95th percentile per-packet one-way delay: 3.243 ms

Loss rate: 0.07%

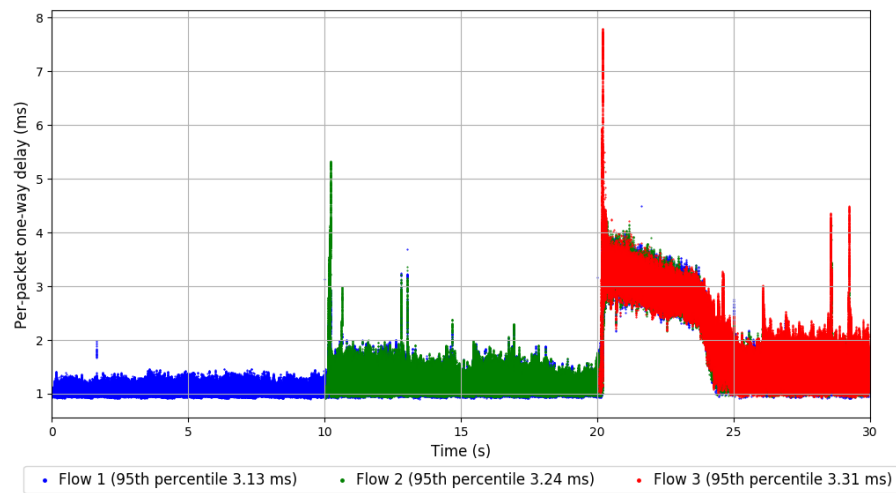
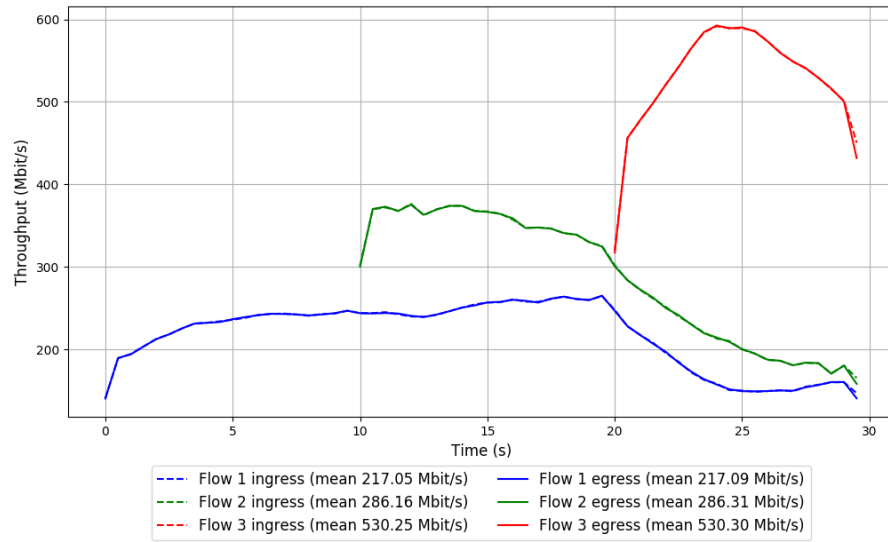
-- Flow 3:

Average throughput: 530.30 Mbit/s

95th percentile per-packet one-way delay: 3.305 ms

Loss rate: 0.19%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-11-16 10:16:06

End at: 2017-11-16 10:16:36

Local clock offset: 1.002 ms

Remote clock offset: 0.074 ms

Below is generated by plot.py at 2017-11-16 15:32:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 440.09 Mbit/s

95th percentile per-packet one-way delay: 1.809 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 14.77 Mbit/s

95th percentile per-packet one-way delay: 1435.110 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 465.16 Mbit/s

95th percentile per-packet one-way delay: 1.750 ms

Loss rate: 0.06%

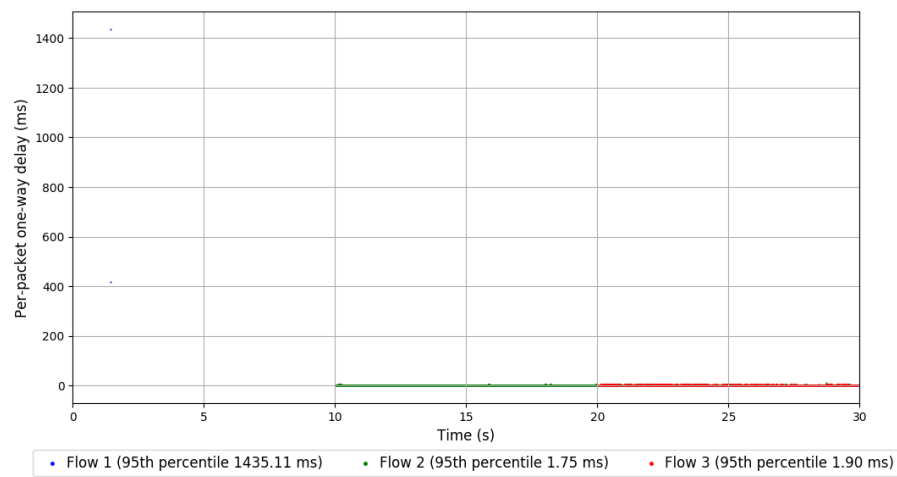
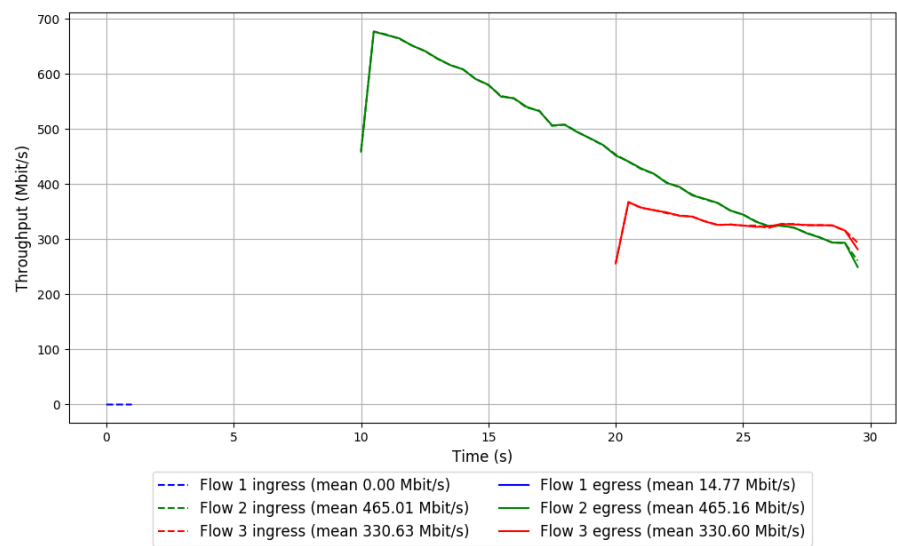
-- Flow 3:

Average throughput: 330.60 Mbit/s

95th percentile per-packet one-way delay: 1.903 ms

Loss rate: 0.19%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-16 10:36:25

End at: 2017-11-16 10:36:55

Local clock offset: 0.914 ms

Remote clock offset: 0.108 ms

Below is generated by plot.py at 2017-11-16 15:32:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 483.20 Mbit/s

95th percentile per-packet one-way delay: 1.554 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 217.24 Mbit/s

95th percentile per-packet one-way delay: 1.531 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 296.21 Mbit/s

95th percentile per-packet one-way delay: 1.561 ms

Loss rate: 0.09%

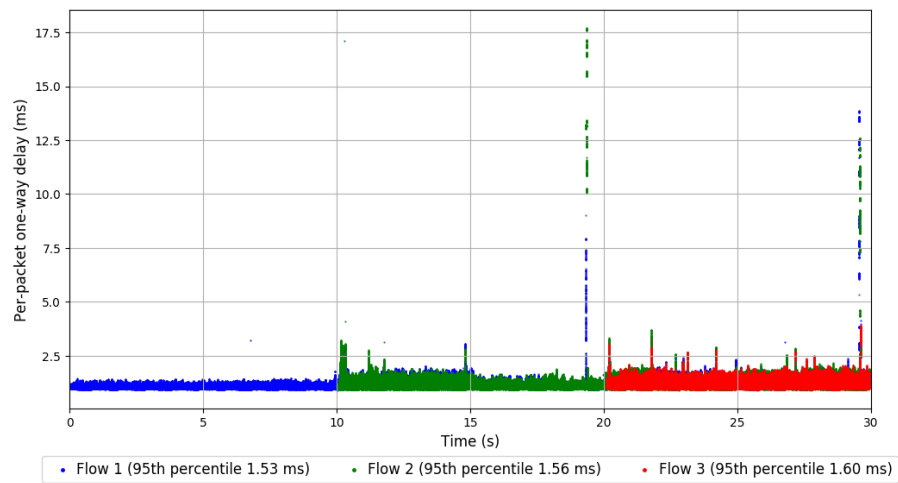
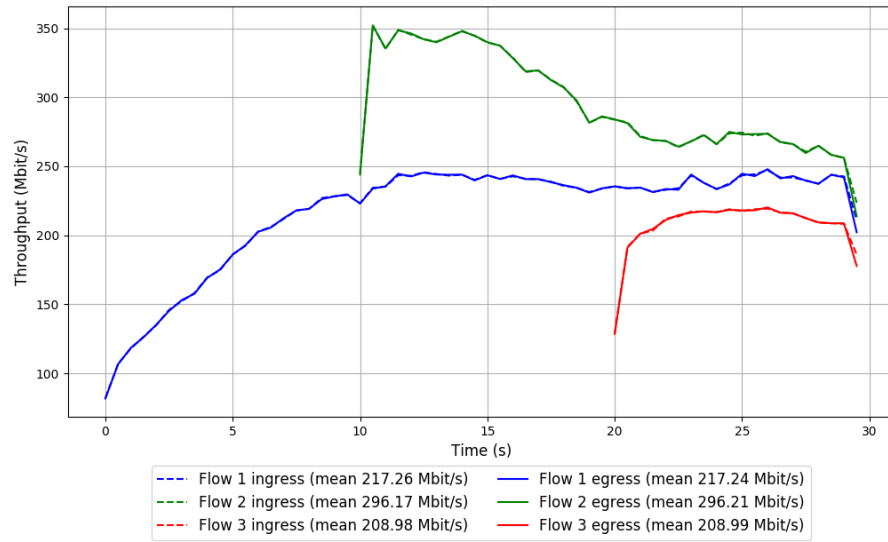
-- Flow 3:

Average throughput: 208.99 Mbit/s

95th percentile per-packet one-way delay: 1.597 ms

Loss rate: 0.20%

Run 10: Report of TCP Vegas — Data Link

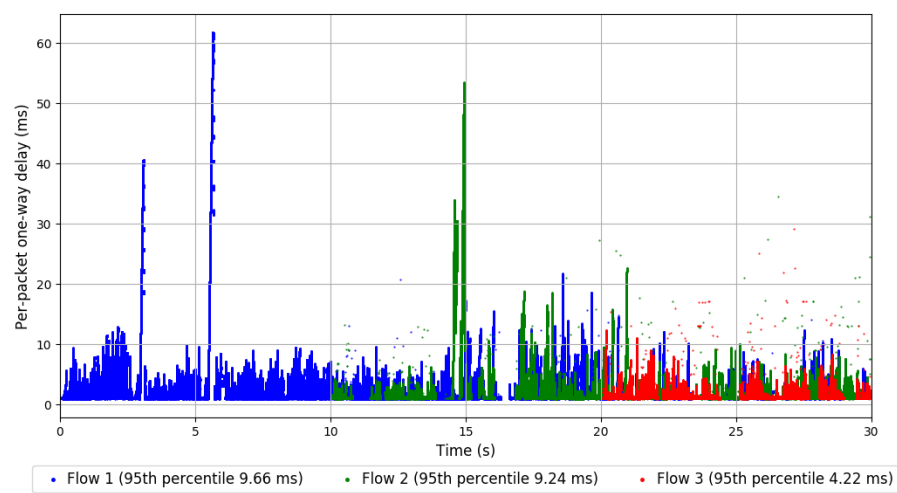
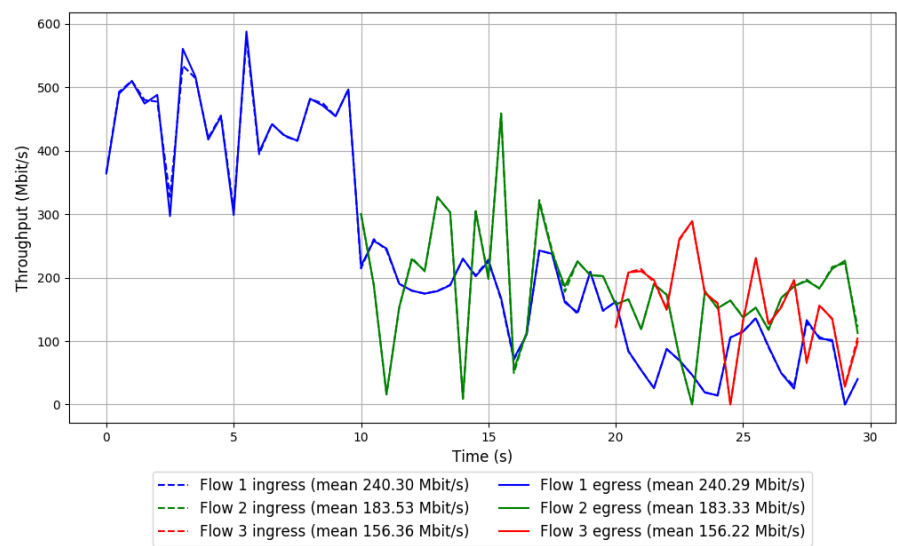


Run 1: Statistics of Verus

Start at: 2017-11-16 07:36:07
End at: 2017-11-16 07:36:37
Local clock offset: 0.693 ms
Remote clock offset: -1.679 ms

Below is generated by plot.py at 2017-11-16 15:32:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 412.29 Mbit/s
95th percentile per-packet one-way delay: 8.858 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 240.29 Mbit/s
95th percentile per-packet one-way delay: 9.658 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 183.33 Mbit/s
95th percentile per-packet one-way delay: 9.240 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 156.22 Mbit/s
95th percentile per-packet one-way delay: 4.224 ms
Loss rate: 0.27%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-16 07:56:40

End at: 2017-11-16 07:57:10

Local clock offset: 0.714 ms

Remote clock offset: -1.3 ms

Below is generated by plot.py at 2017-11-16 15:32:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 407.80 Mbit/s

95th percentile per-packet one-way delay: 8.840 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 236.73 Mbit/s

95th percentile per-packet one-way delay: 8.911 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 179.70 Mbit/s

95th percentile per-packet one-way delay: 11.574 ms

Loss rate: 0.07%

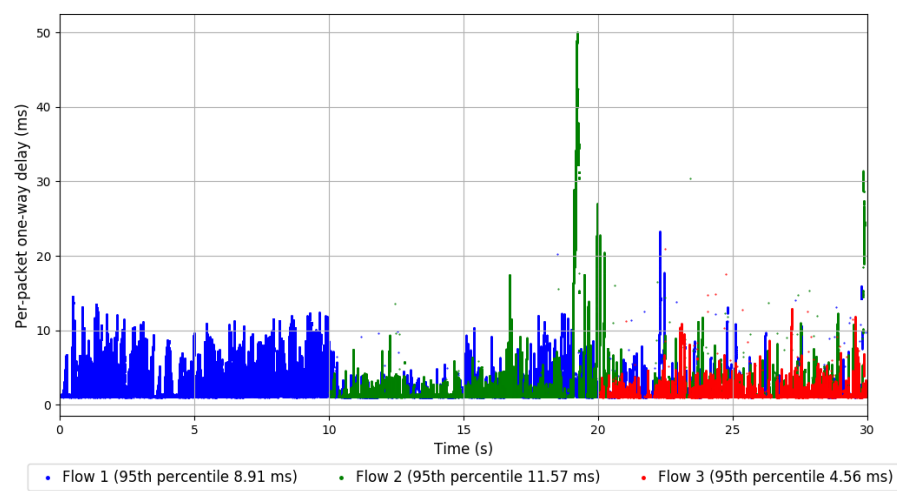
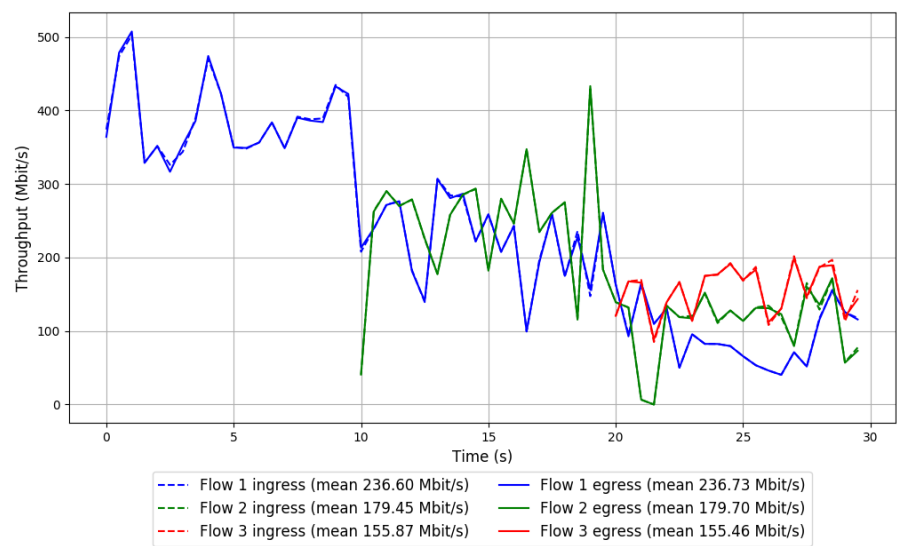
-- Flow 3:

Average throughput: 155.46 Mbit/s

95th percentile per-packet one-way delay: 4.562 ms

Loss rate: 0.45%

Run 2: Report of Verus — Data Link

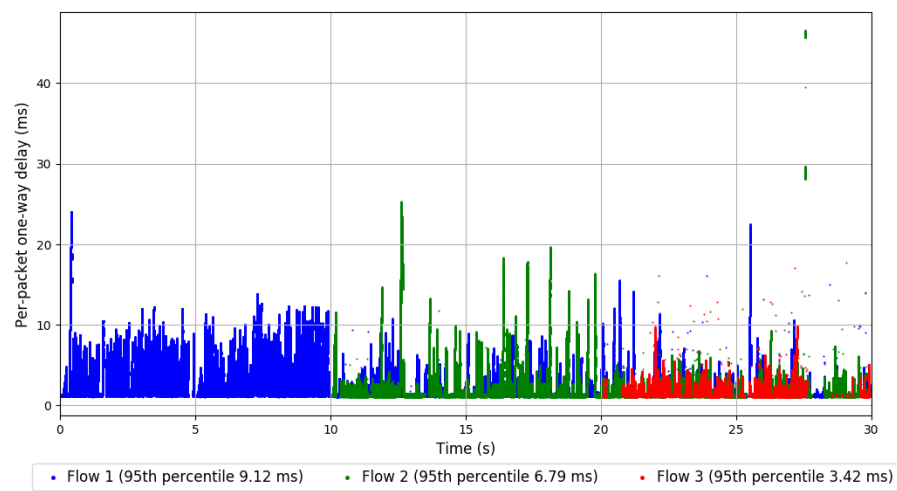
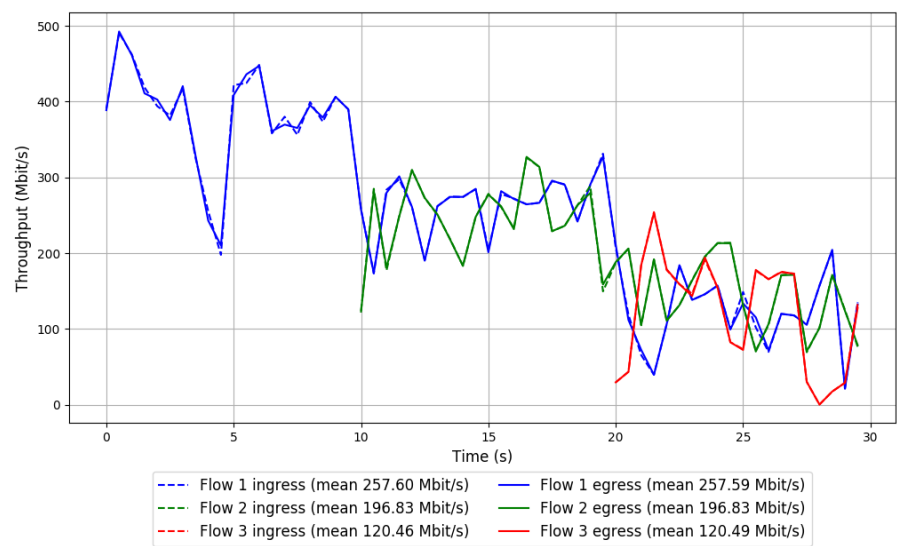


Run 3: Statistics of Verus

Start at: 2017-11-16 08:17:22
End at: 2017-11-16 08:17:52
Local clock offset: 0.855 ms
Remote clock offset: -1.156 ms

Below is generated by plot.py at 2017-11-16 15:32:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 427.87 Mbit/s
95th percentile per-packet one-way delay: 8.340 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 257.59 Mbit/s
95th percentile per-packet one-way delay: 9.125 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 196.83 Mbit/s
95th percentile per-packet one-way delay: 6.786 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 120.49 Mbit/s
95th percentile per-packet one-way delay: 3.425 ms
Loss rate: 0.21%

Run 3: Report of Verus — Data Link

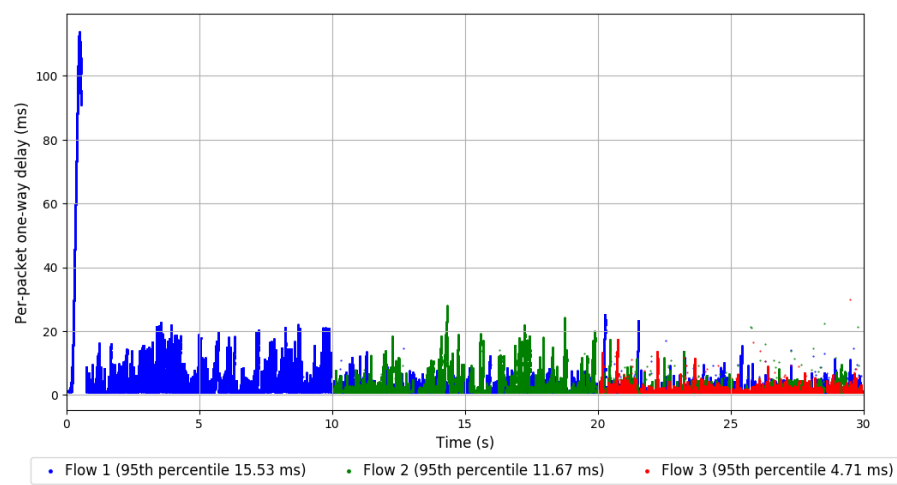
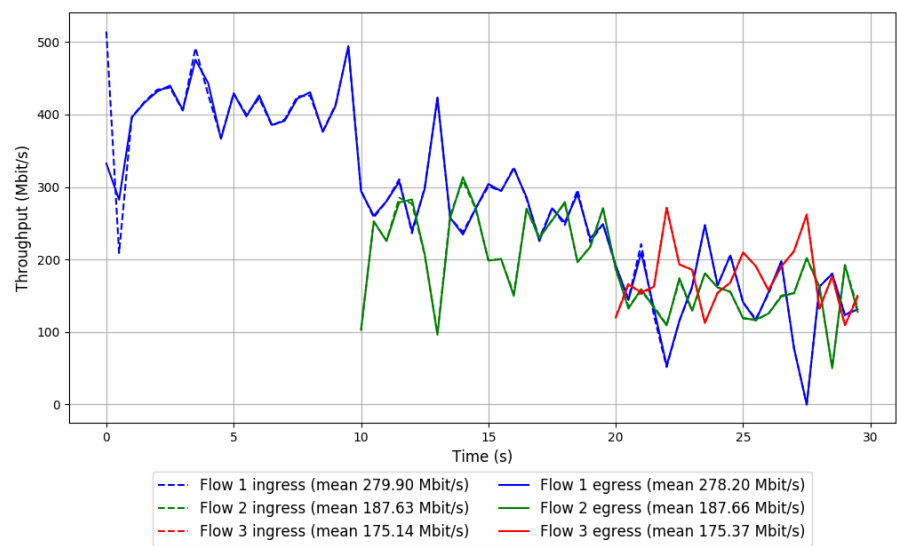


Run 4: Statistics of Verus

Start at: 2017-11-16 08:38:14
End at: 2017-11-16 08:38:44
Local clock offset: 1.013 ms
Remote clock offset: -0.905 ms

Below is generated by plot.py at 2017-11-16 15:32:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 461.14 Mbit/s
95th percentile per-packet one-way delay: 13.734 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 278.20 Mbit/s
95th percentile per-packet one-way delay: 15.527 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 187.66 Mbit/s
95th percentile per-packet one-way delay: 11.672 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 175.37 Mbit/s
95th percentile per-packet one-way delay: 4.706 ms
Loss rate: 0.08%

Run 4: Report of Verus — Data Link

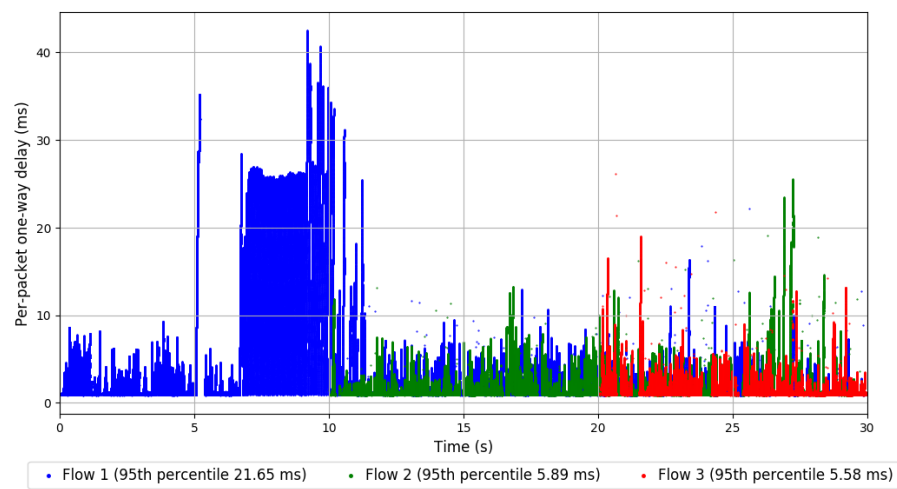
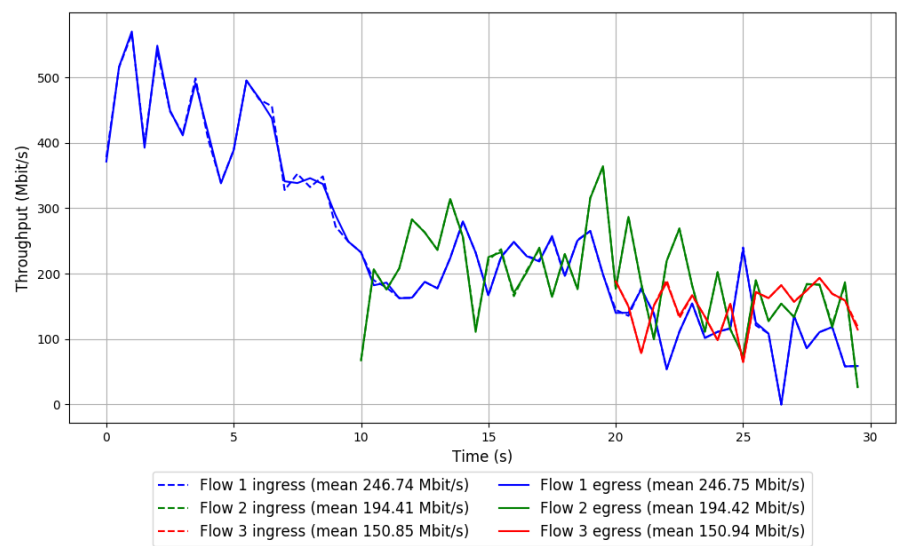


Run 5: Statistics of Verus

Start at: 2017-11-16 08:58:33
End at: 2017-11-16 08:59:03
Local clock offset: 1.144 ms
Remote clock offset: -0.548 ms

Below is generated by plot.py at 2017-11-16 15:37:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 424.41 Mbit/s
95th percentile per-packet one-way delay: 15.539 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 246.75 Mbit/s
95th percentile per-packet one-way delay: 21.649 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 194.42 Mbit/s
95th percentile per-packet one-way delay: 5.890 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 150.94 Mbit/s
95th percentile per-packet one-way delay: 5.579 ms
Loss rate: 0.15%

Run 5: Report of Verus — Data Link

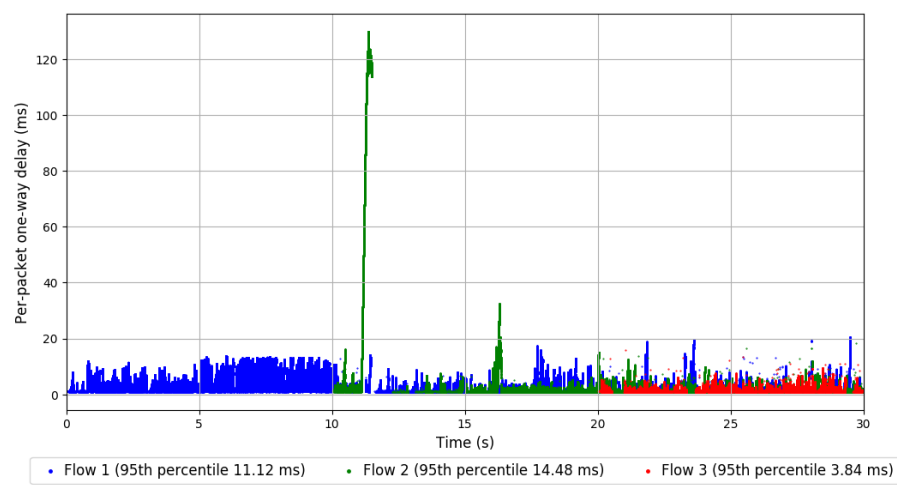
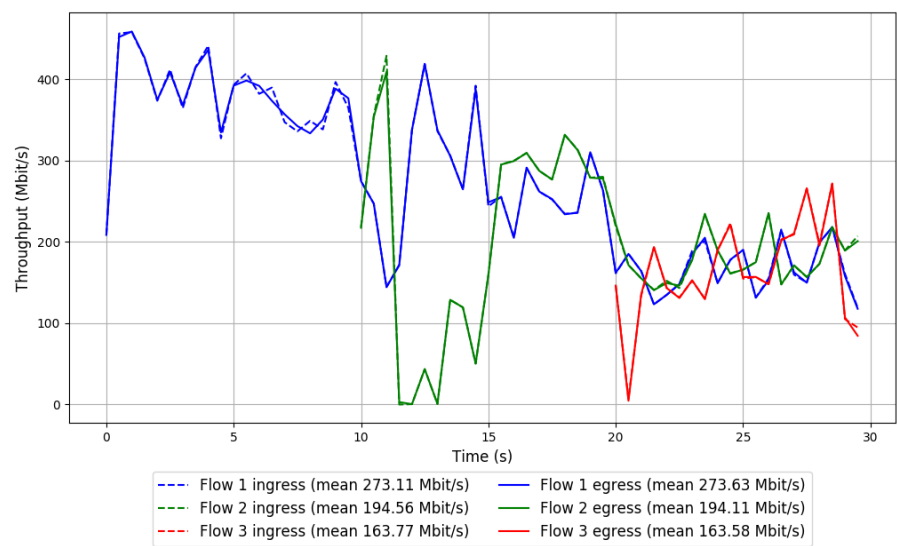


Run 6: Statistics of Verus

Start at: 2017-11-16 09:19:13
End at: 2017-11-16 09:19:43
Local clock offset: 1.15 ms
Remote clock offset: -0.478 ms

Below is generated by plot.py at 2017-11-16 15:37:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 456.56 Mbit/s
95th percentile per-packet one-way delay: 10.863 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 273.63 Mbit/s
95th percentile per-packet one-way delay: 11.118 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 194.11 Mbit/s
95th percentile per-packet one-way delay: 14.476 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 163.58 Mbit/s
95th percentile per-packet one-way delay: 3.841 ms
Loss rate: 0.31%

Run 6: Report of Verus — Data Link

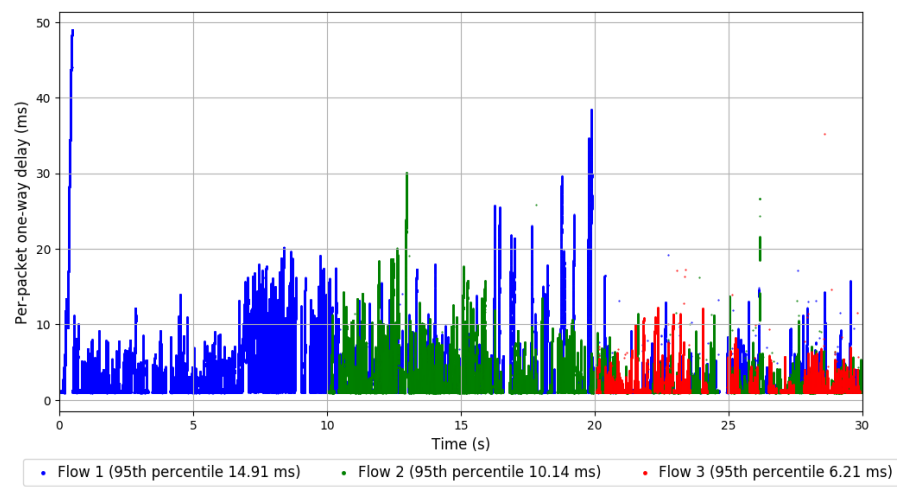
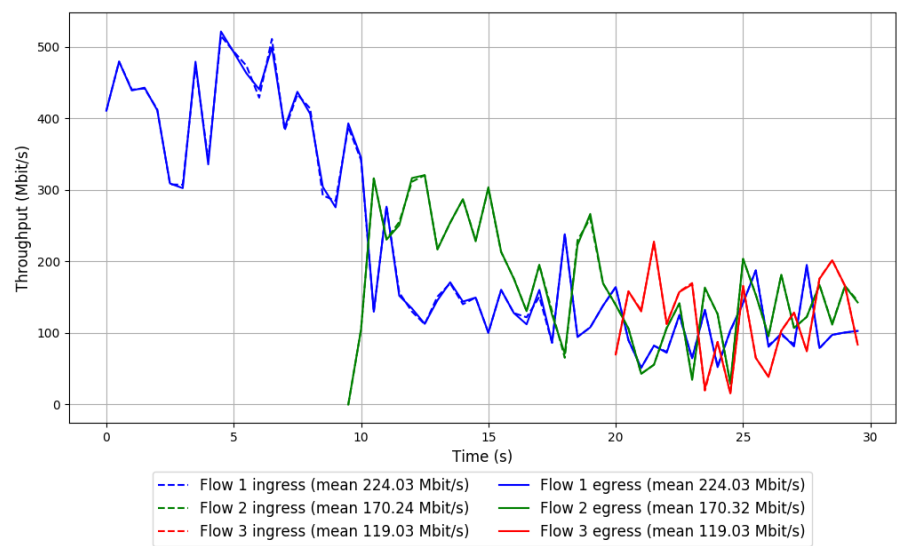


Run 7: Statistics of Verus

Start at: 2017-11-16 09:39:24
End at: 2017-11-16 09:39:54
Local clock offset: 1.183 ms
Remote clock offset: -0.104 ms

Below is generated by plot.py at 2017-11-16 15:37:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 376.77 Mbit/s
95th percentile per-packet one-way delay: 13.192 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 224.03 Mbit/s
95th percentile per-packet one-way delay: 14.907 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 170.32 Mbit/s
95th percentile per-packet one-way delay: 10.143 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 119.03 Mbit/s
95th percentile per-packet one-way delay: 6.206 ms
Loss rate: 0.00%

Run 7: Report of Verus — Data Link

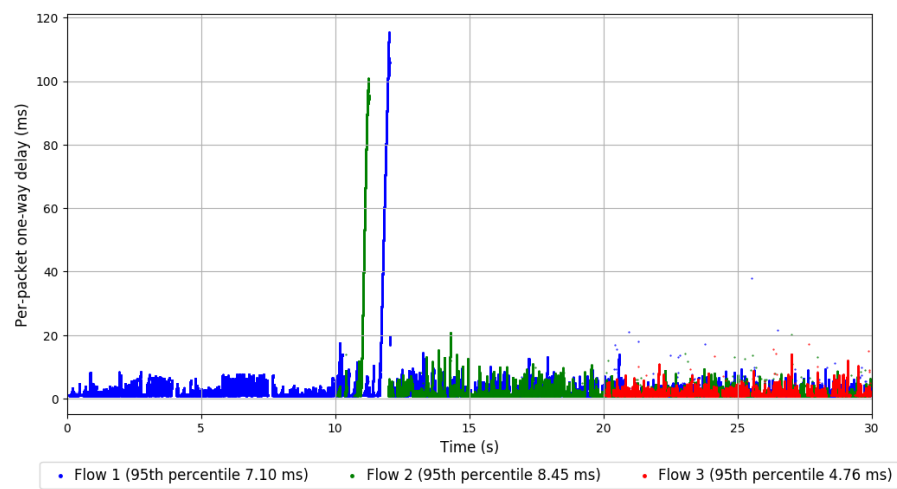
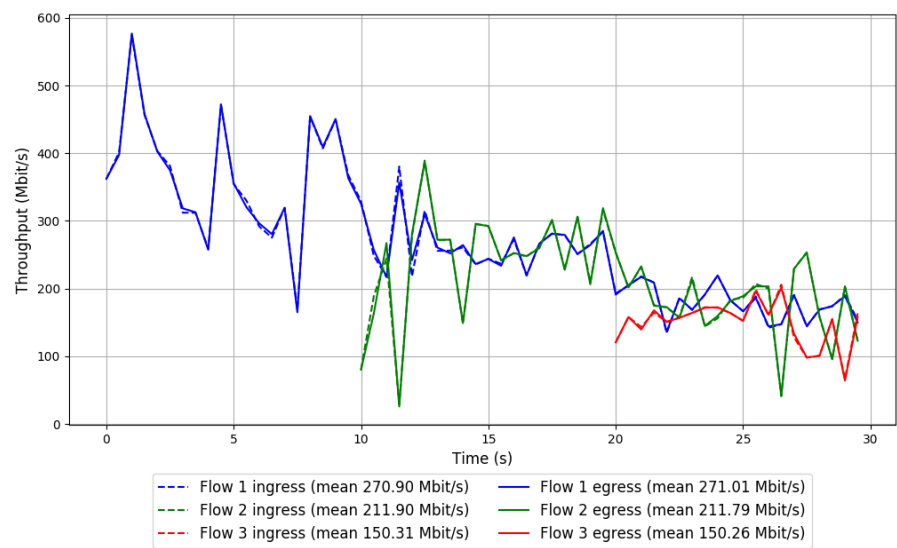


Run 8: Statistics of Verus

Start at: 2017-11-16 09:59:54
End at: 2017-11-16 10:00:24
Local clock offset: 1.059 ms
Remote clock offset: 0.05 ms

Below is generated by plot.py at 2017-11-16 15:38:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 461.71 Mbit/s
95th percentile per-packet one-way delay: 7.136 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 271.01 Mbit/s
95th percentile per-packet one-way delay: 7.099 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 211.79 Mbit/s
95th percentile per-packet one-way delay: 8.453 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 150.26 Mbit/s
95th percentile per-packet one-way delay: 4.761 ms
Loss rate: 0.27%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-11-16 10:20:02

End at: 2017-11-16 10:20:32

Local clock offset: 0.872 ms

Remote clock offset: 0.042 ms

Below is generated by plot.py at 2017-11-16 15:38:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 450.84 Mbit/s

95th percentile per-packet one-way delay: 8.804 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 240.88 Mbit/s

95th percentile per-packet one-way delay: 10.251 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 227.41 Mbit/s

95th percentile per-packet one-way delay: 6.914 ms

Loss rate: 0.12%

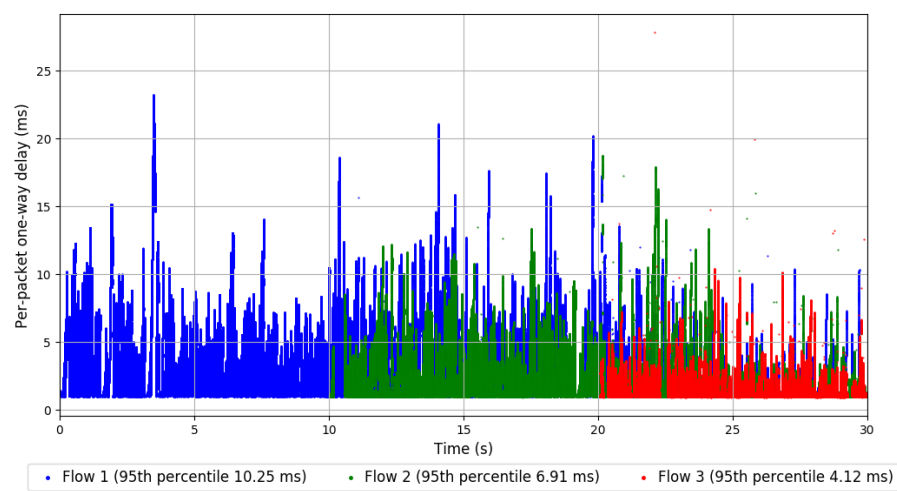
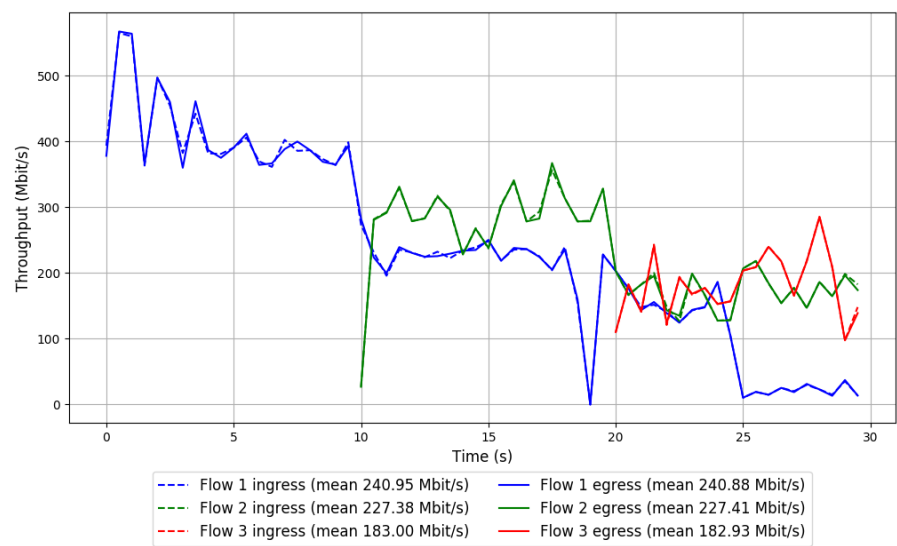
-- Flow 3:

Average throughput: 182.93 Mbit/s

95th percentile per-packet one-way delay: 4.115 ms

Loss rate: 0.25%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-16 10:40:25

End at: 2017-11-16 10:40:55

Local clock offset: 0.895 ms

Remote clock offset: 0.161 ms

Below is generated by plot.py at 2017-11-16 15:38:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 421.52 Mbit/s

95th percentile per-packet one-way delay: 8.642 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 260.53 Mbit/s

95th percentile per-packet one-way delay: 8.647 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 153.11 Mbit/s

95th percentile per-packet one-way delay: 9.894 ms

Loss rate: 0.11%

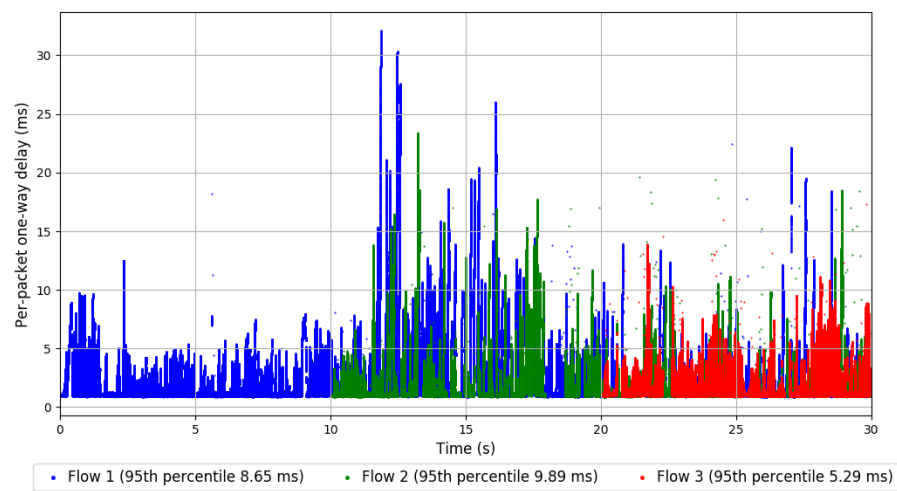
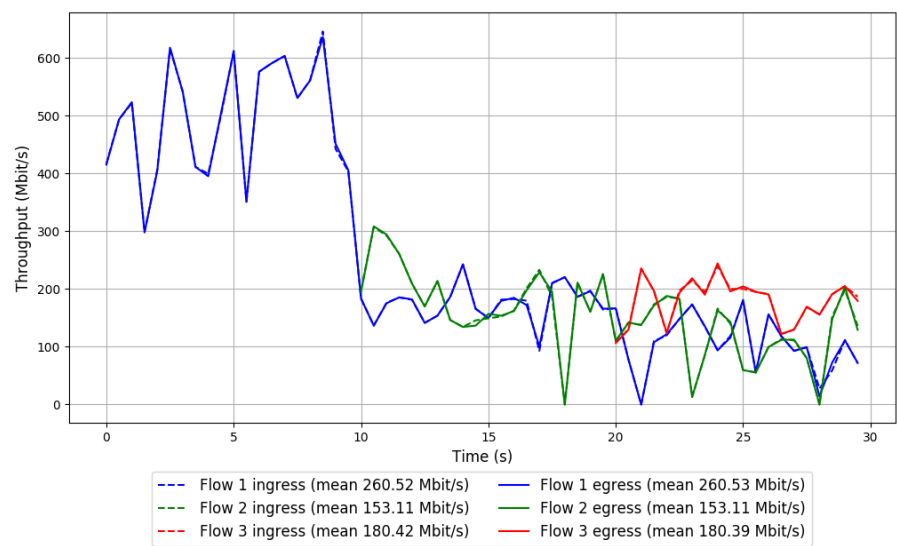
-- Flow 3:

Average throughput: 180.39 Mbit/s

95th percentile per-packet one-way delay: 5.289 ms

Loss rate: 0.22%

Run 10: Report of Verus — Data Link

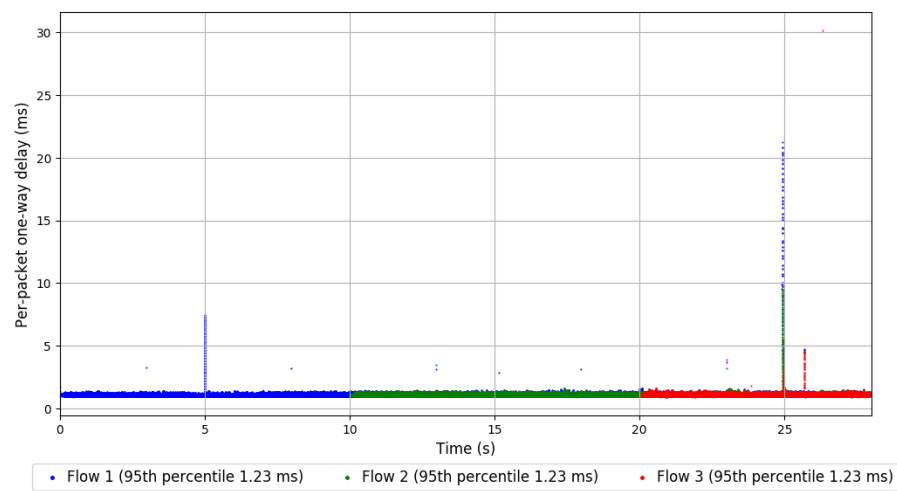
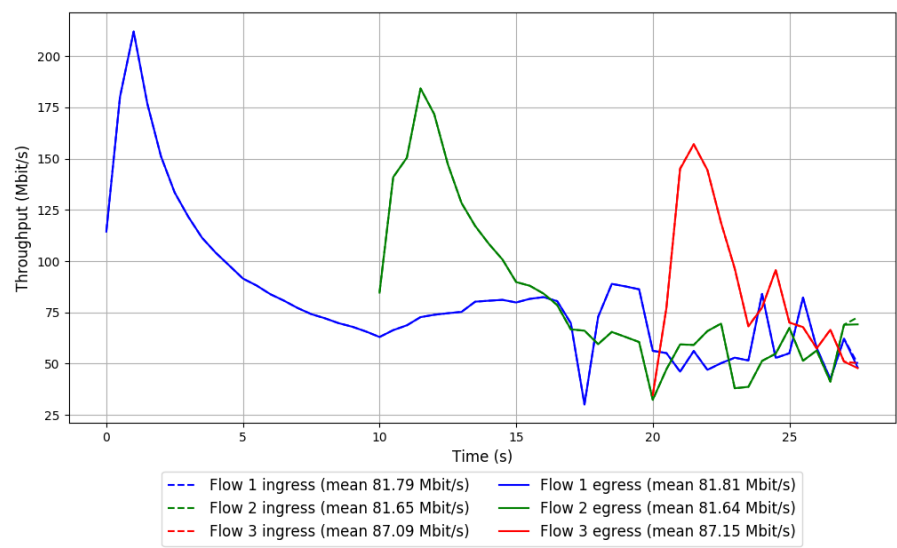


Run 1: Statistics of Copa

Start at: 2017-11-16 07:22:57
End at: 2017-11-16 07:23:27
Local clock offset: 0.905 ms
Remote clock offset: -2.166 ms

Below is generated by plot.py at 2017-11-16 15:38:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 158.82 Mbit/s
95th percentile per-packet one-way delay: 1.227 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 81.81 Mbit/s
95th percentile per-packet one-way delay: 1.226 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 81.64 Mbit/s
95th percentile per-packet one-way delay: 1.227 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 87.15 Mbit/s
95th percentile per-packet one-way delay: 1.232 ms
Loss rate: 0.19%

Run 1: Report of Copa — Data Link

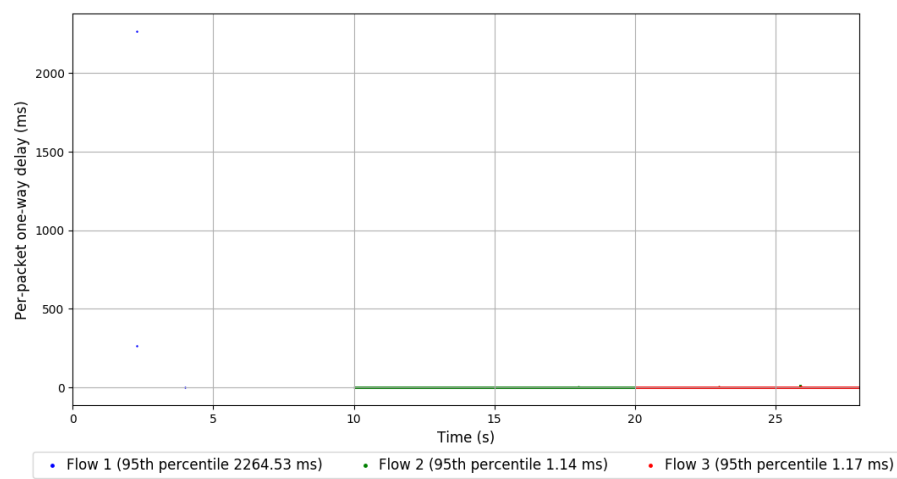
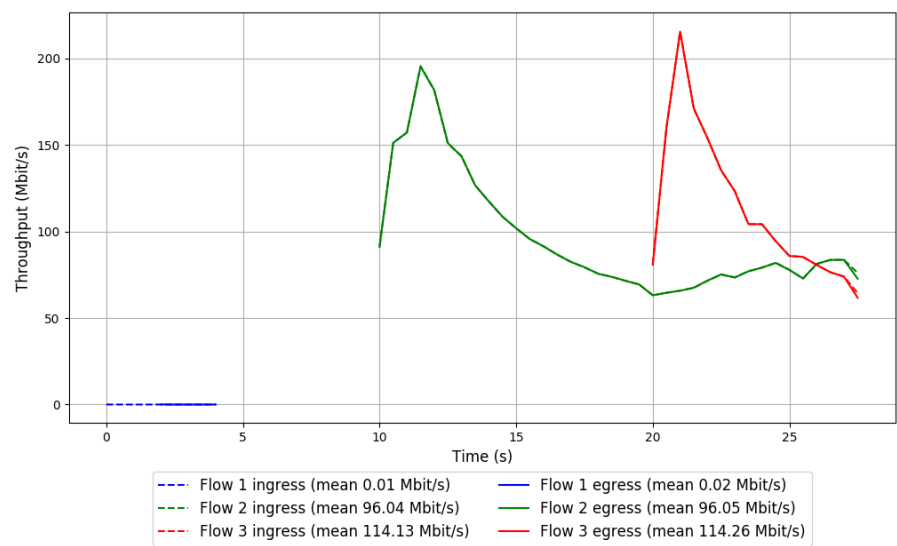


Run 2: Statistics of Copa

Start at: 2017-11-16 07:43:41
End at: 2017-11-16 07:44:11
Local clock offset: 0.634 ms
Remote clock offset: -1.438 ms

Below is generated by plot.py at 2017-11-16 15:38:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 102.25 Mbit/s
95th percentile per-packet one-way delay: 1.149 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.02 Mbit/s
95th percentile per-packet one-way delay: 2264.525 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 96.05 Mbit/s
95th percentile per-packet one-way delay: 1.136 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 114.26 Mbit/s
95th percentile per-packet one-way delay: 1.166 ms
Loss rate: 0.16%

Run 2: Report of Copa — Data Link

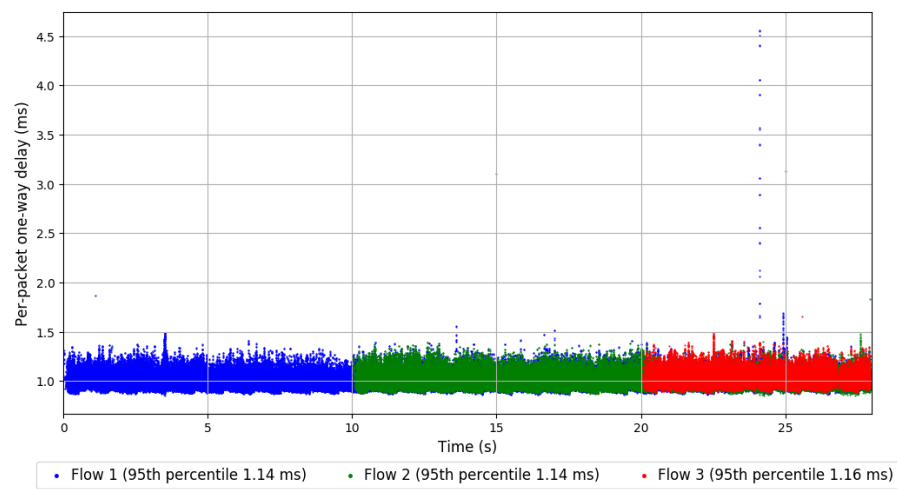
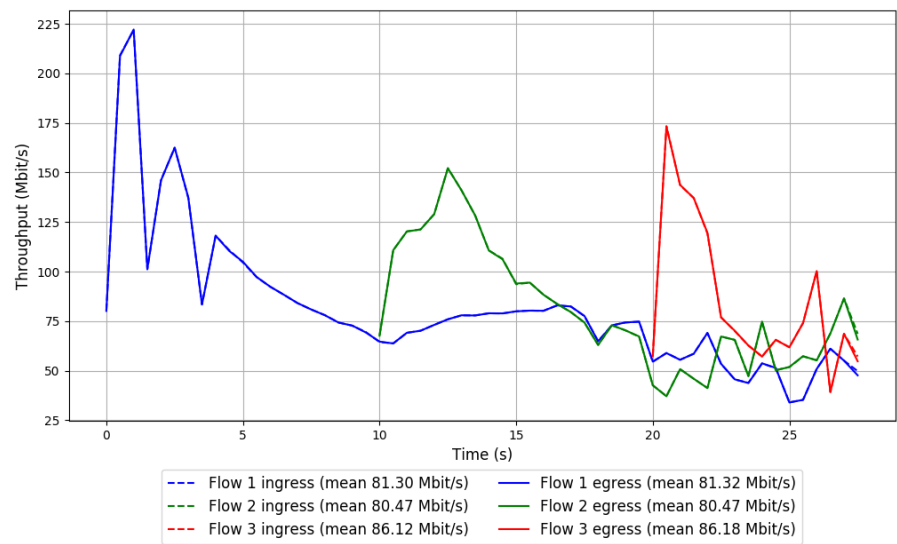


Run 3: Statistics of Copa

Start at: 2017-11-16 08:04:17
End at: 2017-11-16 08:04:47
Local clock offset: 0.637 ms
Remote clock offset: -1.107 ms

Below is generated by plot.py at 2017-11-16 15:39:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 157.32 Mbit/s
95th percentile per-packet one-way delay: 1.142 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 81.32 Mbit/s
95th percentile per-packet one-way delay: 1.137 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 80.47 Mbit/s
95th percentile per-packet one-way delay: 1.140 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 86.18 Mbit/s
95th percentile per-packet one-way delay: 1.157 ms
Loss rate: 0.19%

Run 3: Report of Copa — Data Link

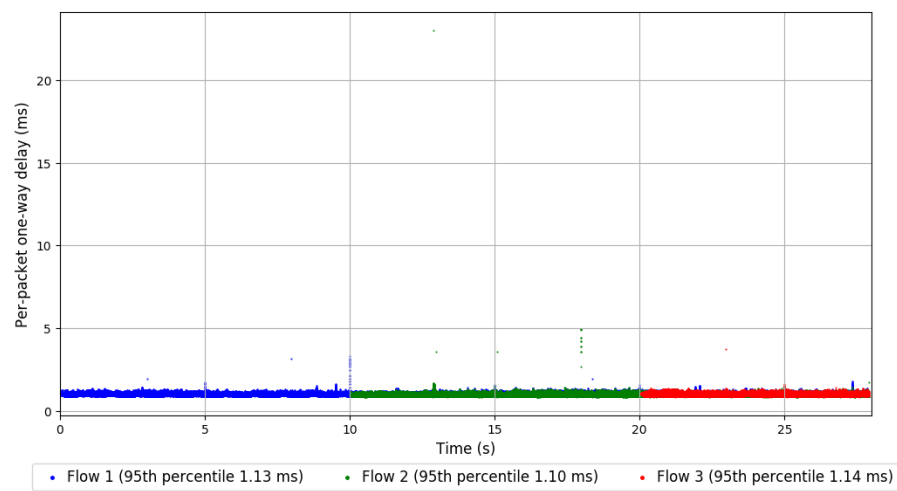
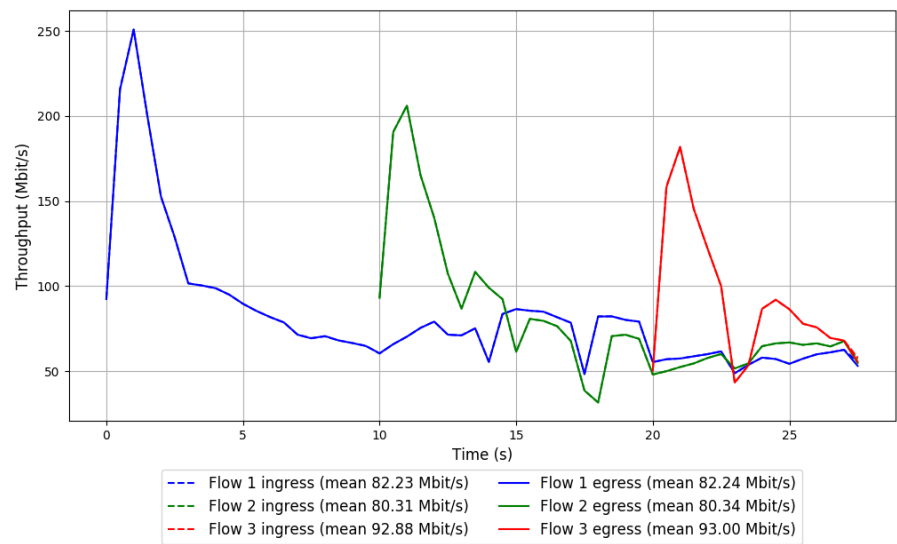


Run 4: Statistics of Copa

Start at: 2017-11-16 08:25:03
End at: 2017-11-16 08:25:33
Local clock offset: 0.866 ms
Remote clock offset: -1.057 ms

Below is generated by plot.py at 2017-11-16 15:40:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 160.06 Mbit/s
95th percentile per-packet one-way delay: 1.122 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 82.24 Mbit/s
95th percentile per-packet one-way delay: 1.126 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 80.34 Mbit/s
95th percentile per-packet one-way delay: 1.101 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 93.00 Mbit/s
95th percentile per-packet one-way delay: 1.140 ms
Loss rate: 0.18%

Run 4: Report of Copa — Data Link

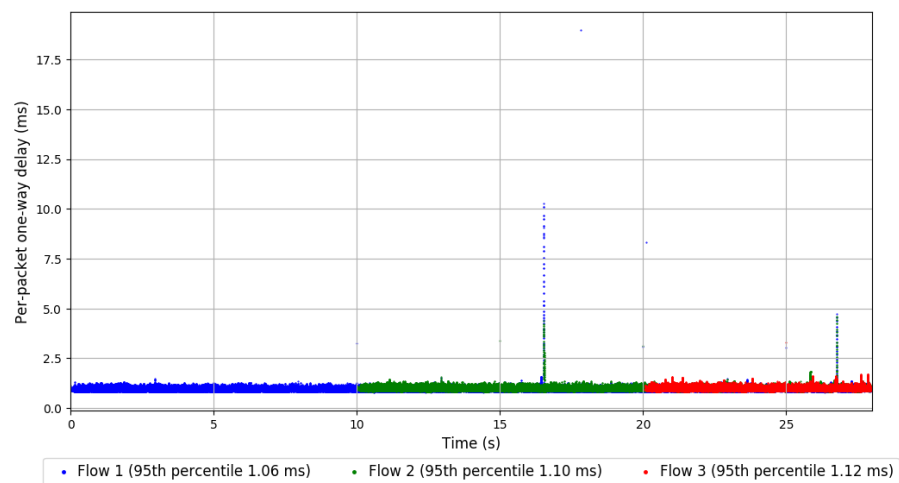
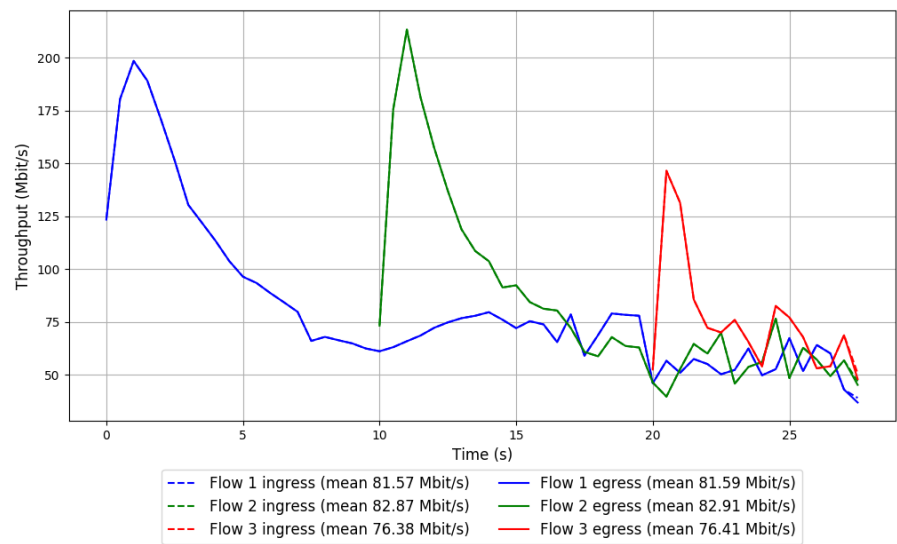


Run 5: Statistics of Copa

Start at: 2017-11-16 08:45:48
End at: 2017-11-16 08:46:18
Local clock offset: 1.074 ms
Remote clock offset: -0.726 ms

Below is generated by plot.py at 2017-11-16 15:40:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 156.38 Mbit/s
95th percentile per-packet one-way delay: 1.089 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 81.59 Mbit/s
95th percentile per-packet one-way delay: 1.064 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 82.91 Mbit/s
95th percentile per-packet one-way delay: 1.104 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 76.41 Mbit/s
95th percentile per-packet one-way delay: 1.123 ms
Loss rate: 0.23%

Run 5: Report of Copa — Data Link

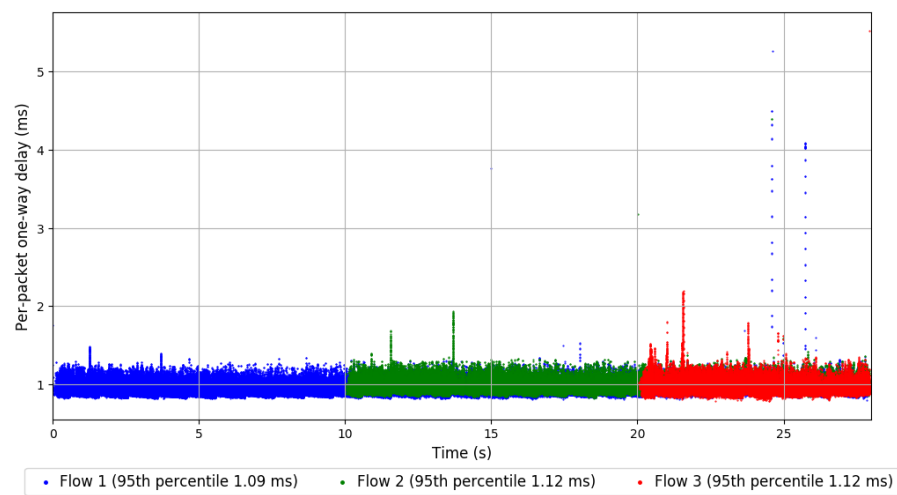
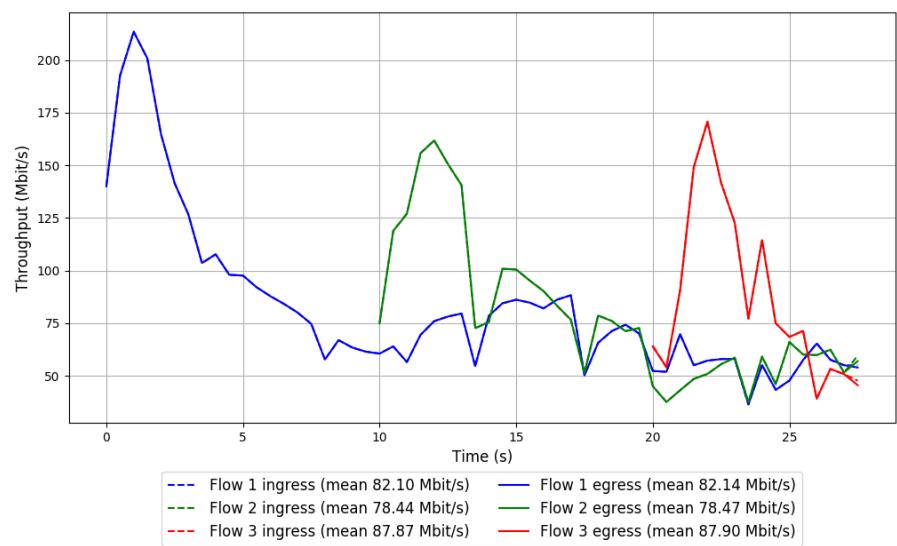


Run 6: Statistics of Copa

Start at: 2017-11-16 09:06:12
End at: 2017-11-16 09:06:42
Local clock offset: 1.141 ms
Remote clock offset: -0.574 ms

Below is generated by plot.py at 2017-11-16 15:40:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 157.28 Mbit/s
95th percentile per-packet one-way delay: 1.107 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 82.14 Mbit/s
95th percentile per-packet one-way delay: 1.089 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 78.47 Mbit/s
95th percentile per-packet one-way delay: 1.120 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 87.90 Mbit/s
95th percentile per-packet one-way delay: 1.124 ms
Loss rate: 0.16%

Run 6: Report of Copa — Data Link

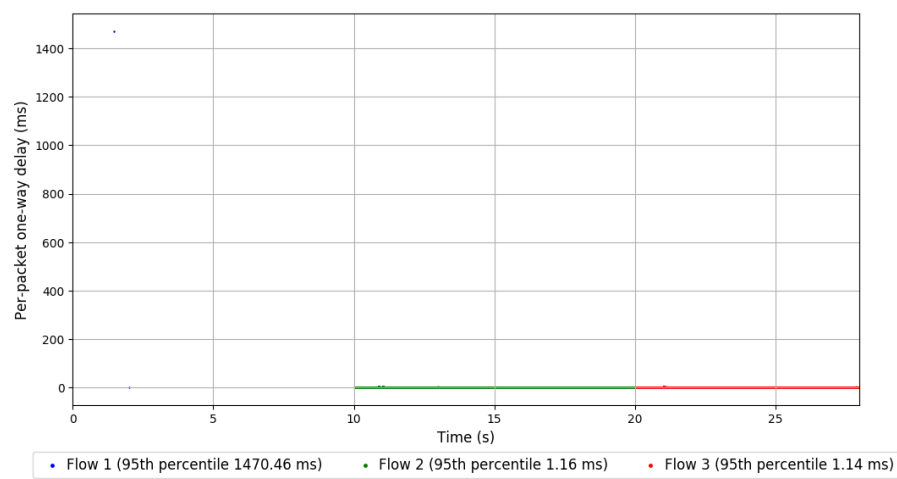
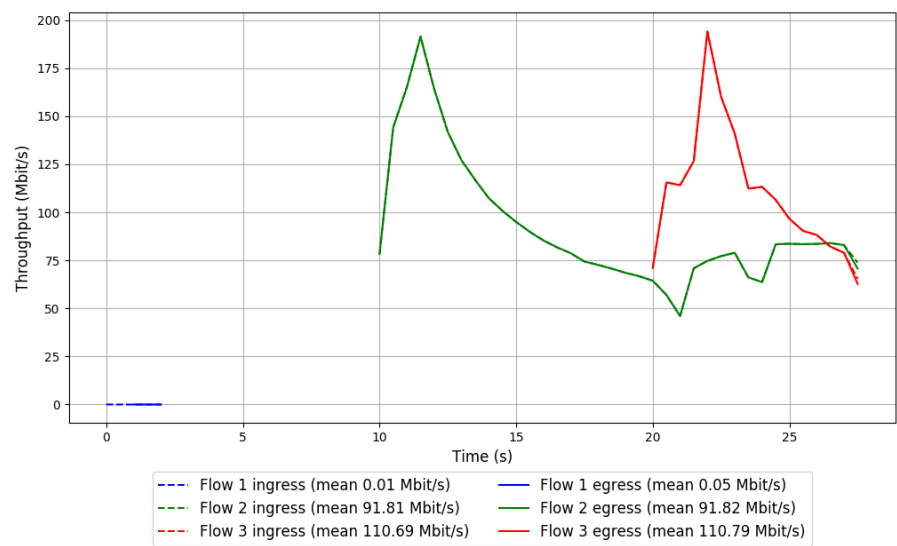


Run 7: Statistics of Copa

Start at: 2017-11-16 09:26:48
End at: 2017-11-16 09:27:18
Local clock offset: 1.145 ms
Remote clock offset: -0.379 ms

Below is generated by plot.py at 2017-11-16 15:40:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.33 Mbit/s
95th percentile per-packet one-way delay: 1.156 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1470.463 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 91.82 Mbit/s
95th percentile per-packet one-way delay: 1.162 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 110.79 Mbit/s
95th percentile per-packet one-way delay: 1.142 ms
Loss rate: 0.16%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-11-16 09:46:54

End at: 2017-11-16 09:47:24

Local clock offset: 1.143 ms

Remote clock offset: 0.158 ms

Below is generated by plot.py at 2017-11-16 15:40:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.12 Mbit/s

95th percentile per-packet one-way delay: 1.107 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 0.02 Mbit/s

95th percentile per-packet one-way delay: 808.147 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 91.73 Mbit/s

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

Loss rate: 0.10%

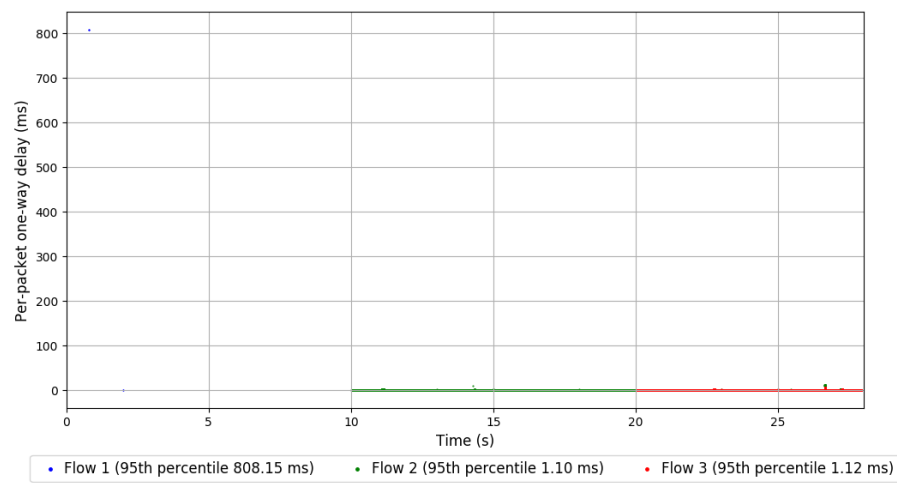
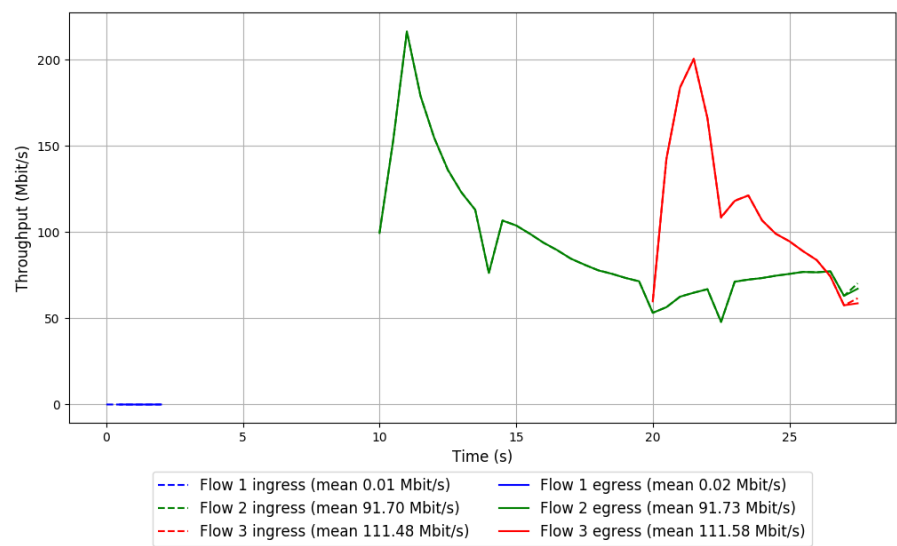
-- Flow 3:

Average throughput: 111.58 Mbit/s

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

Loss rate: 0.17%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-11-16 10:07:31

End at: 2017-11-16 10:08:01

Local clock offset: 1.09 ms

Remote clock offset: 0.102 ms

Below is generated by plot.py at 2017-11-16 15:40:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.96 Mbit/s

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

Loss rate: 0.10%

-- Flow 1:

Average throughput: 0.03 Mbit/s

95th percentile per-packet one-way delay: 1150.632 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 97.12 Mbit/s

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

Loss rate: 0.10%

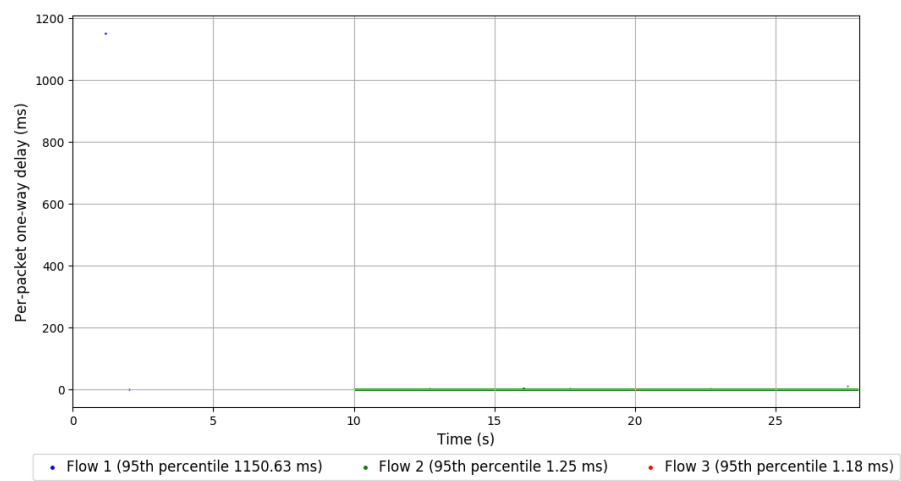
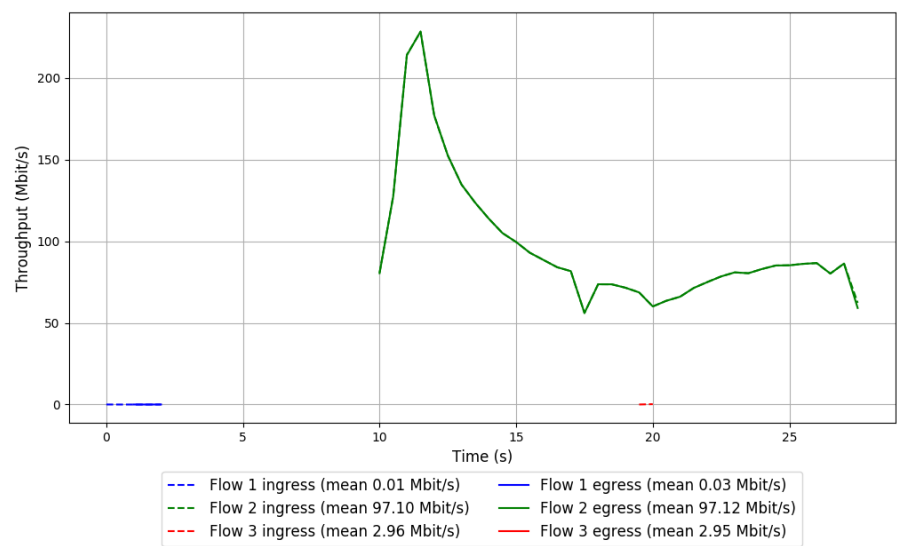
-- Flow 3:

Average throughput: 2.95 Mbit/s

95th percentile per-packet one-way delay: 1.177 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-16 10:27:44

End at: 2017-11-16 10:28:14

Local clock offset: 0.814 ms

Remote clock offset: 0.046 ms

Below is generated by plot.py at 2017-11-16 15:42:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 157.72 Mbit/s

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

Loss rate: 0.10%

-- Flow 1:

Average throughput: 82.03 Mbit/s

95th percentile per-packet one-way delay: 1.158 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 79.39 Mbit/s

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

Loss rate: 0.10%

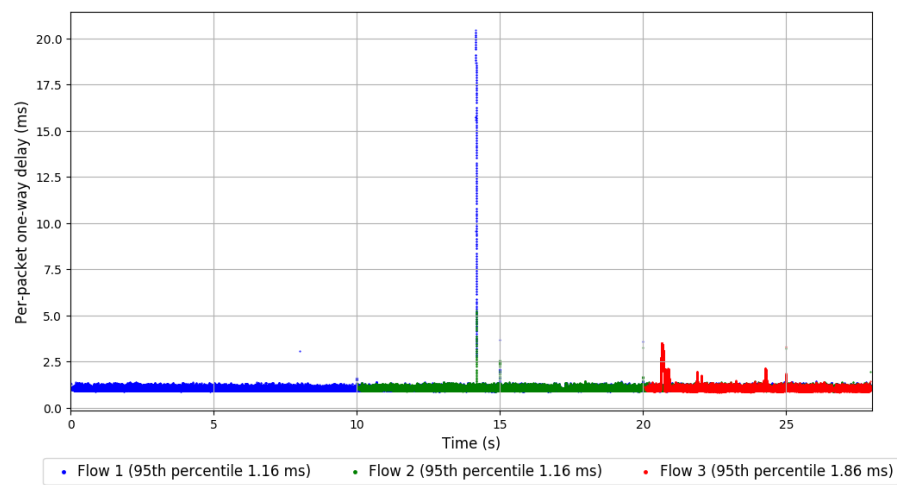
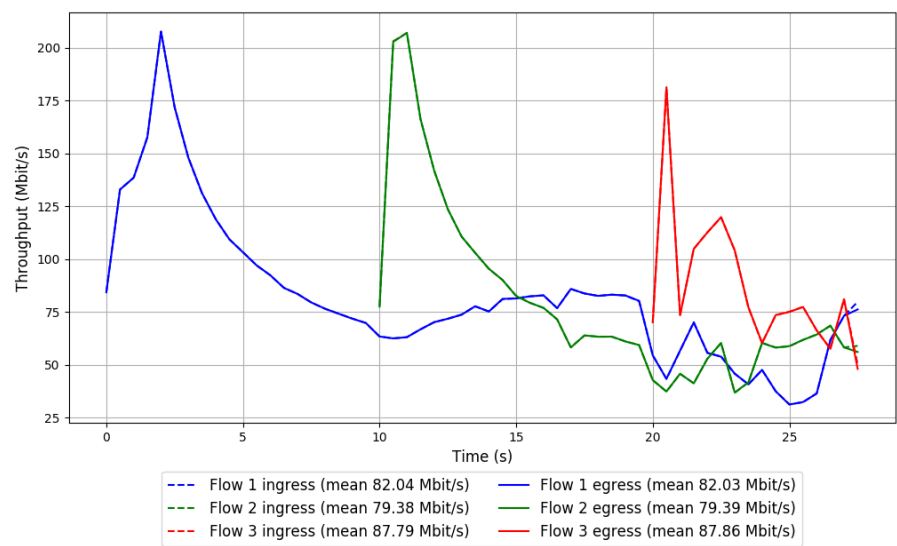
-- Flow 3:

Average throughput: 87.86 Mbit/s

95th percentile per-packet one-way delay: 1.865 ms

Loss rate: 0.16%

Run 10: Report of Copa — Data Link

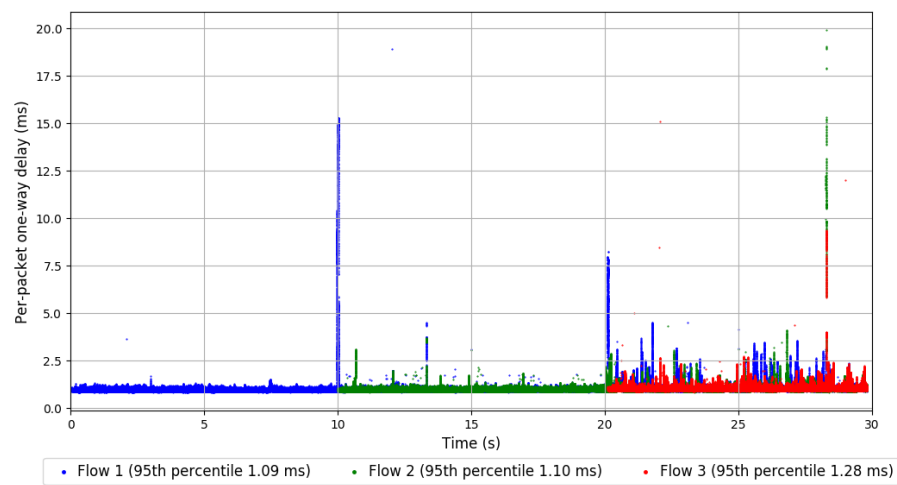
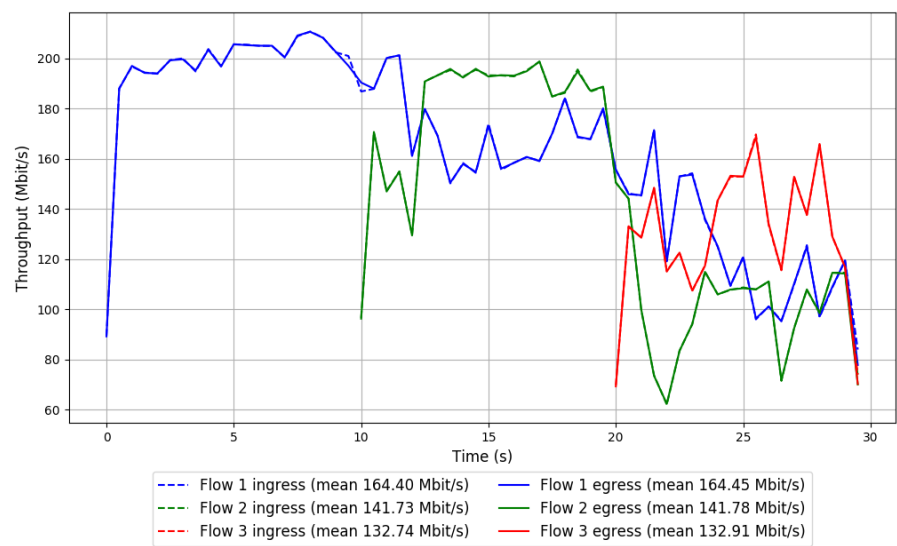


```
Run 1: Statistics of Indigo

Start at: 2017-11-16 07:37:41
End at: 2017-11-16 07:38:11
Local clock offset: 0.668 ms
Remote clock offset: -1.6 ms

# Below is generated by plot.py at 2017-11-16 15:43:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 301.93 Mbit/s
95th percentile per-packet one-way delay: 1.125 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 164.45 Mbit/s
95th percentile per-packet one-way delay: 1.092 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 141.78 Mbit/s
95th percentile per-packet one-way delay: 1.100 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 132.91 Mbit/s
95th percentile per-packet one-way delay: 1.282 ms
Loss rate: 0.15%
```


Run 1: Report of Indigo — Data Link

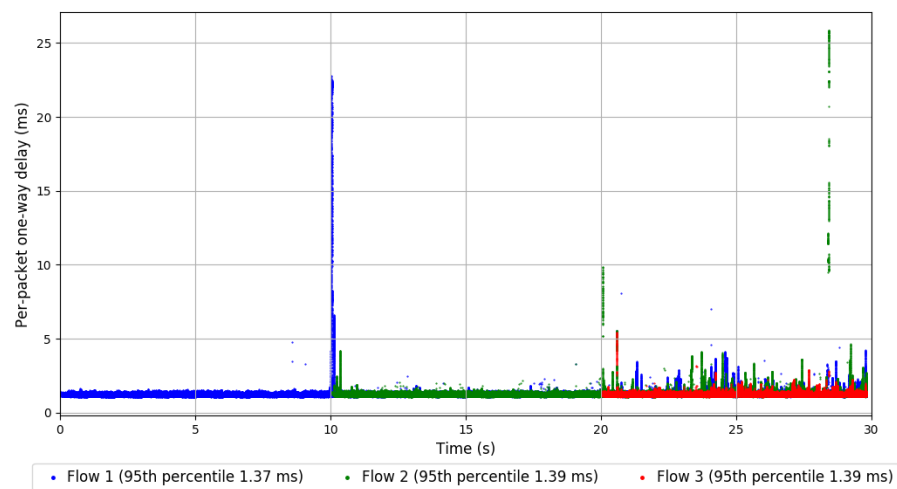
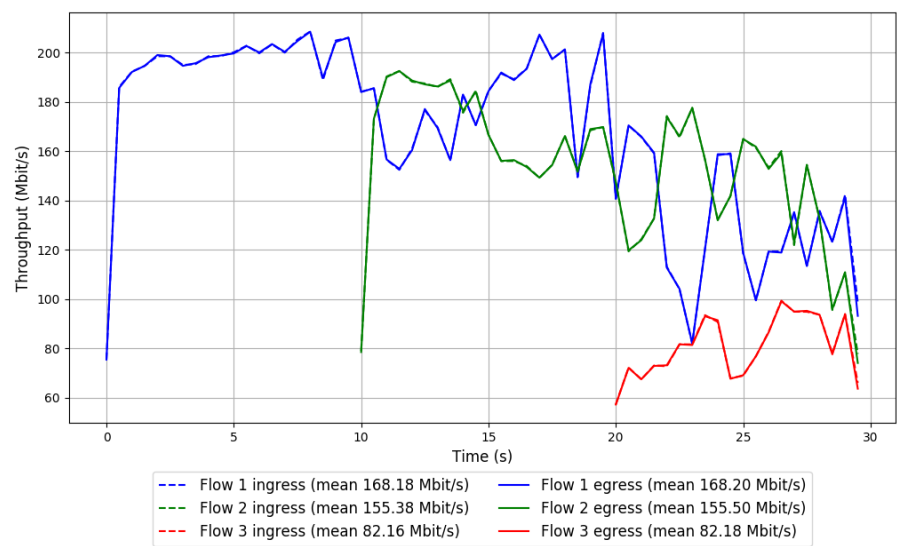


Run 2: Statistics of Indigo

Start at: 2017-11-16 07:58:14
End at: 2017-11-16 07:58:44
Local clock offset: 0.729 ms
Remote clock offset: -1.289 ms

Below is generated by plot.py at 2017-11-16 15:44:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 298.12 Mbit/s
95th percentile per-packet one-way delay: 1.377 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 168.20 Mbit/s
95th percentile per-packet one-way delay: 1.368 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 155.50 Mbit/s
95th percentile per-packet one-way delay: 1.388 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 82.18 Mbit/s
95th percentile per-packet one-way delay: 1.394 ms
Loss rate: 0.17%

Run 2: Report of Indigo — Data Link

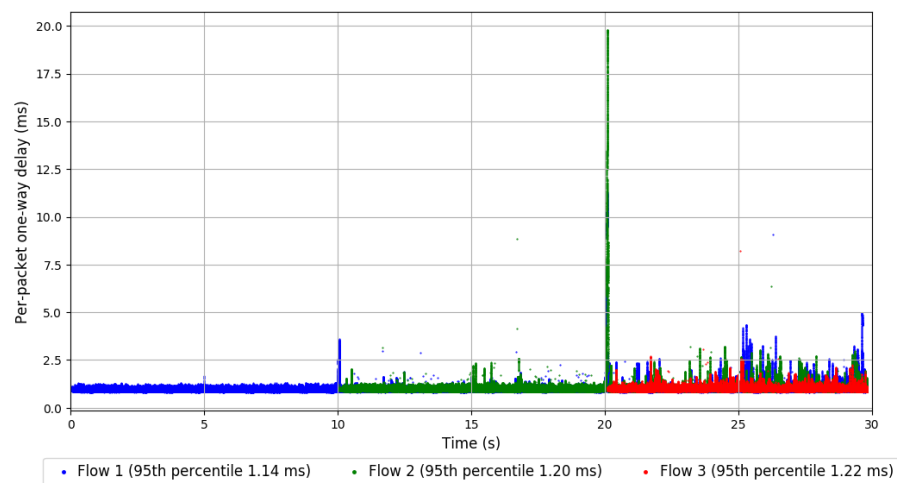
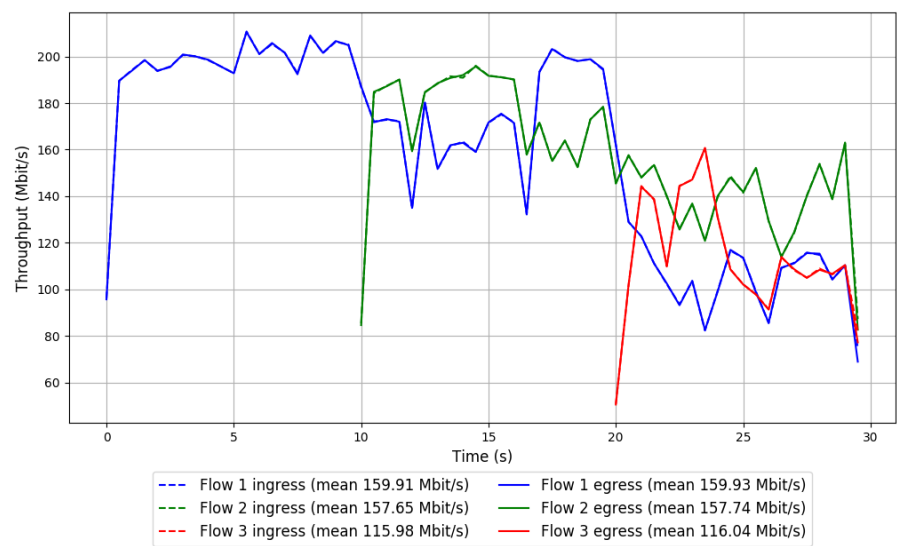


Run 3: Statistics of Indigo

Start at: 2017-11-16 08:18:56
End at: 2017-11-16 08:19:26
Local clock offset: 0.801 ms
Remote clock offset: -1.041 ms

Below is generated by plot.py at 2017-11-16 15:44:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 302.42 Mbit/s
95th percentile per-packet one-way delay: 1.171 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 159.93 Mbit/s
95th percentile per-packet one-way delay: 1.135 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 157.74 Mbit/s
95th percentile per-packet one-way delay: 1.197 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 116.04 Mbit/s
95th percentile per-packet one-way delay: 1.222 ms
Loss rate: 0.22%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-16 08:39:51

End at: 2017-11-16 08:40:21

Local clock offset: 0.998 ms

Remote clock offset: -0.88 ms

Below is generated by plot.py at 2017-11-16 15:44:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 169.90 Mbit/s

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

Loss rate: 0.14%

-- Flow 1:

Average throughput: 60.78 Mbit/s

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

Loss rate: 0.06%

-- Flow 2:

Average throughput: 83.26 Mbit/s

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

Loss rate: 0.14%

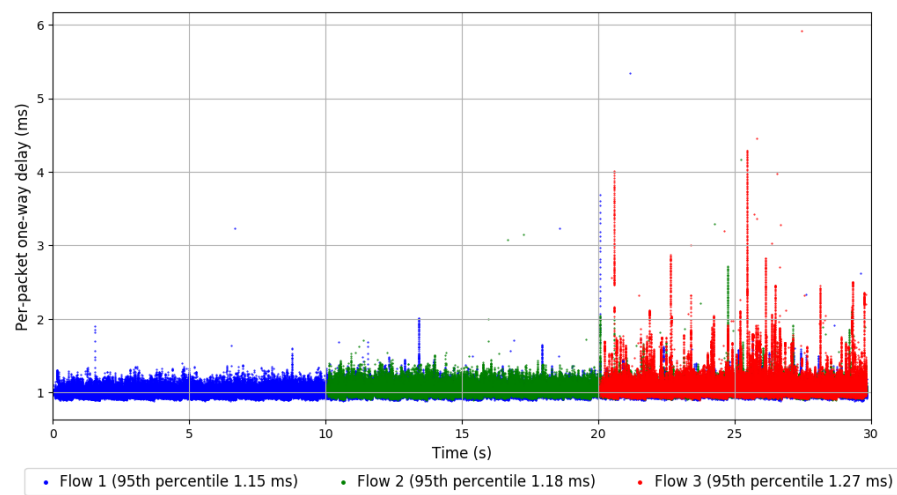
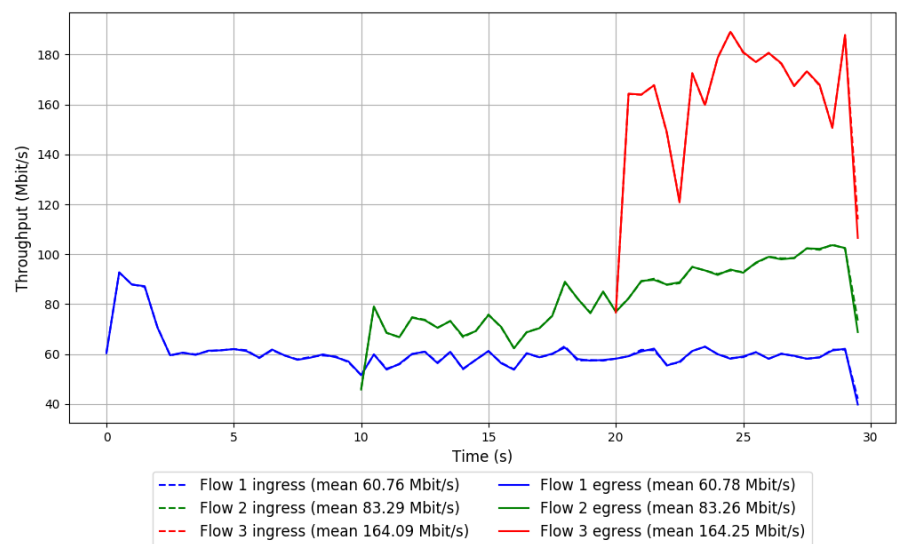
-- Flow 3:

Average throughput: 164.25 Mbit/s

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

Loss rate: 0.24%

Run 4: Report of Indigo — Data Link

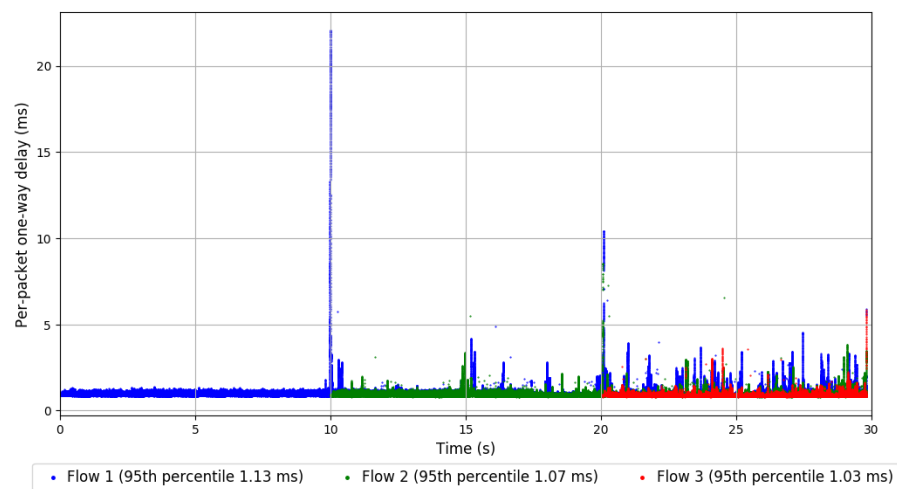
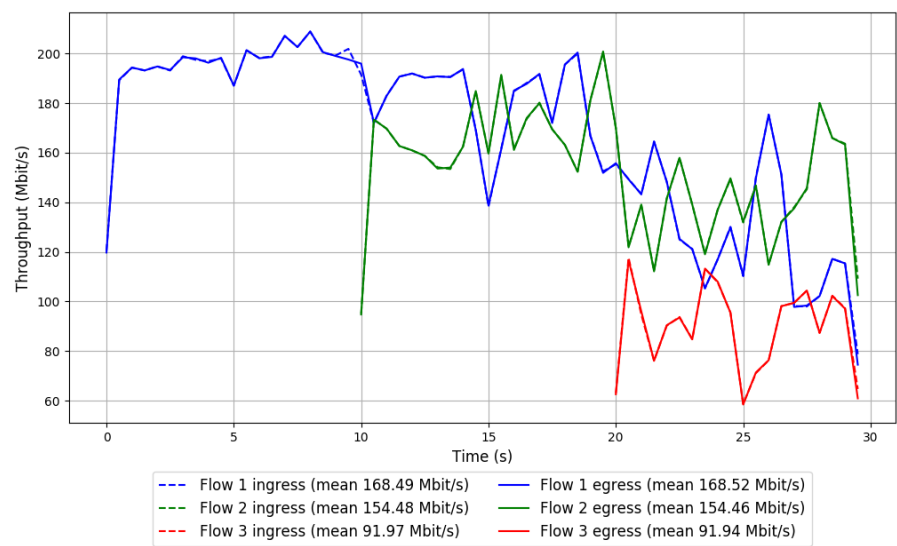


Run 5: Statistics of Indigo

Start at: 2017-11-16 09:00:07
End at: 2017-11-16 09:00:37
Local clock offset: 1.153 ms
Remote clock offset: -0.517 ms

Below is generated by plot.py at 2017-11-16 15:45:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 301.14 Mbit/s
95th percentile per-packet one-way delay: 1.107 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 168.52 Mbit/s
95th percentile per-packet one-way delay: 1.129 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 154.46 Mbit/s
95th percentile per-packet one-way delay: 1.074 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 91.94 Mbit/s
95th percentile per-packet one-way delay: 1.032 ms
Loss rate: 0.23%

Run 5: Report of Indigo — Data Link

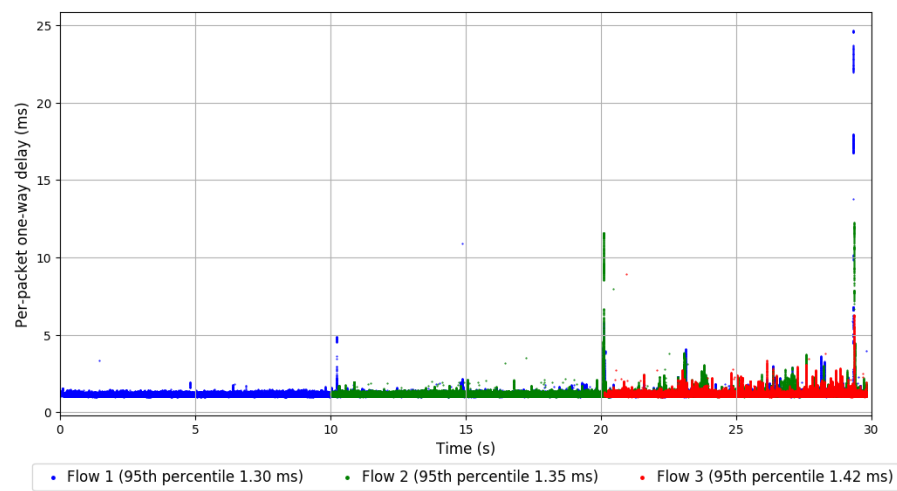
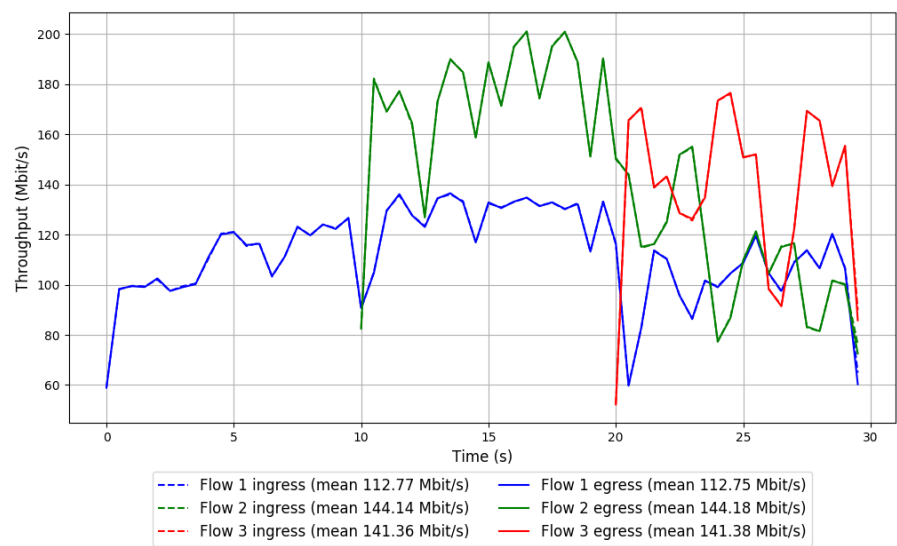


Run 6: Statistics of Indigo

Start at: 2017-11-16 09:20:49
End at: 2017-11-16 09:21:19
Local clock offset: 1.214 ms
Remote clock offset: -0.498 ms

Below is generated by plot.py at 2017-11-16 15:45:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 254.46 Mbit/s
95th percentile per-packet one-way delay: 1.338 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 112.75 Mbit/s
95th percentile per-packet one-way delay: 1.298 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 144.18 Mbit/s
95th percentile per-packet one-way delay: 1.354 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 141.38 Mbit/s
95th percentile per-packet one-way delay: 1.416 ms
Loss rate: 0.15%

Run 6: Report of Indigo — Data Link

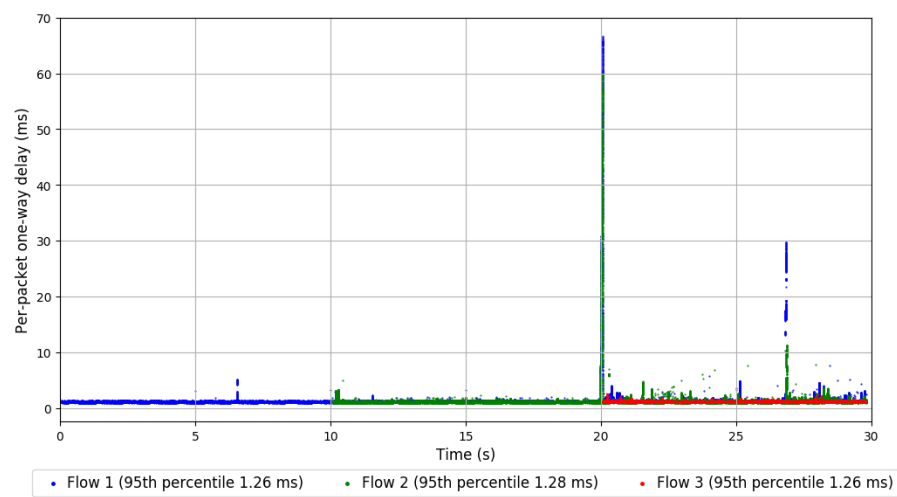
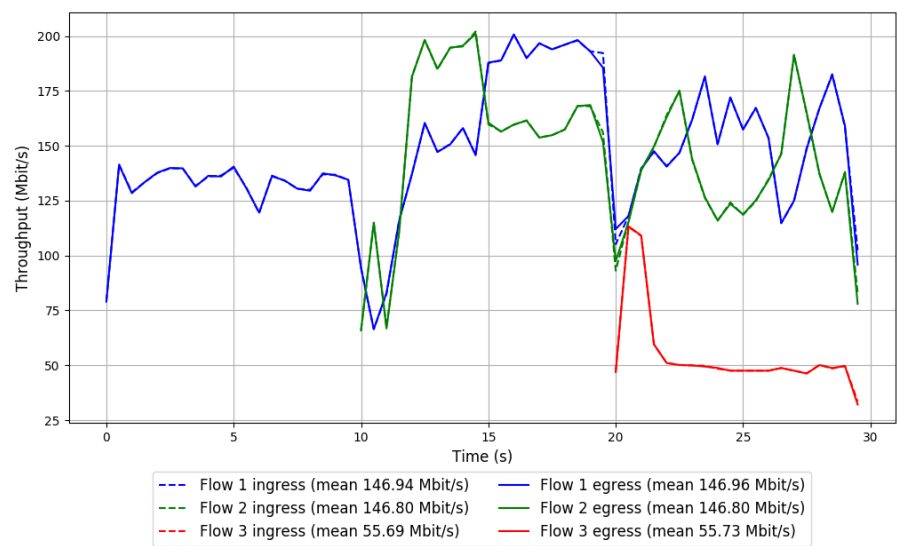


Run 7: Statistics of Indigo

Start at: 2017-11-16 09:40:56
End at: 2017-11-16 09:41:26
Local clock offset: 1.184 ms
Remote clock offset: -0.078 ms

Below is generated by plot.py at 2017-11-16 15:45:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 262.69 Mbit/s
95th percentile per-packet one-way delay: 1.265 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 146.96 Mbit/s
95th percentile per-packet one-way delay: 1.256 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 146.80 Mbit/s
95th percentile per-packet one-way delay: 1.284 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 55.73 Mbit/s
95th percentile per-packet one-way delay: 1.263 ms
Loss rate: 0.13%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-16 10:01:30

End at: 2017-11-16 10:02:00

Local clock offset: 1.116 ms

Remote clock offset: 0.04 ms

Below is generated by plot.py at 2017-11-16 15:46:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 298.08 Mbit/s

95th percentile per-packet one-way delay: 1.342 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 167.74 Mbit/s

95th percentile per-packet one-way delay: 1.321 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 147.56 Mbit/s

95th percentile per-packet one-way delay: 1.365 ms

Loss rate: 0.05%

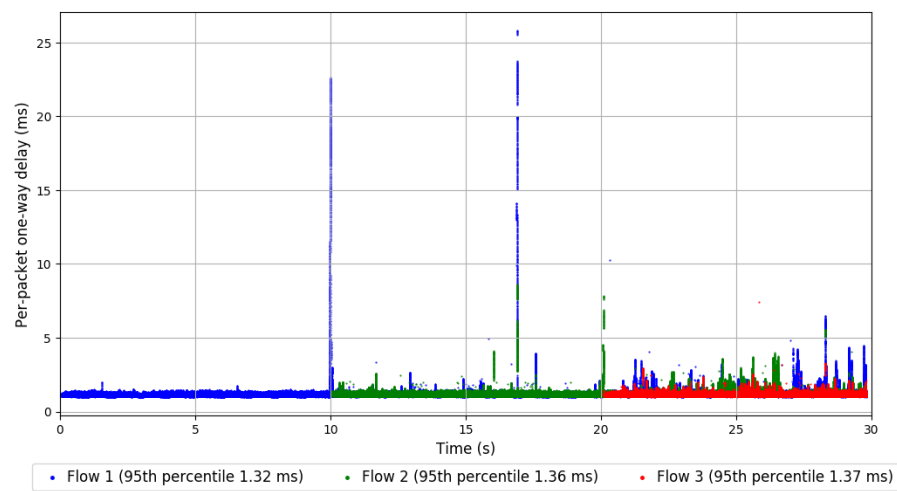
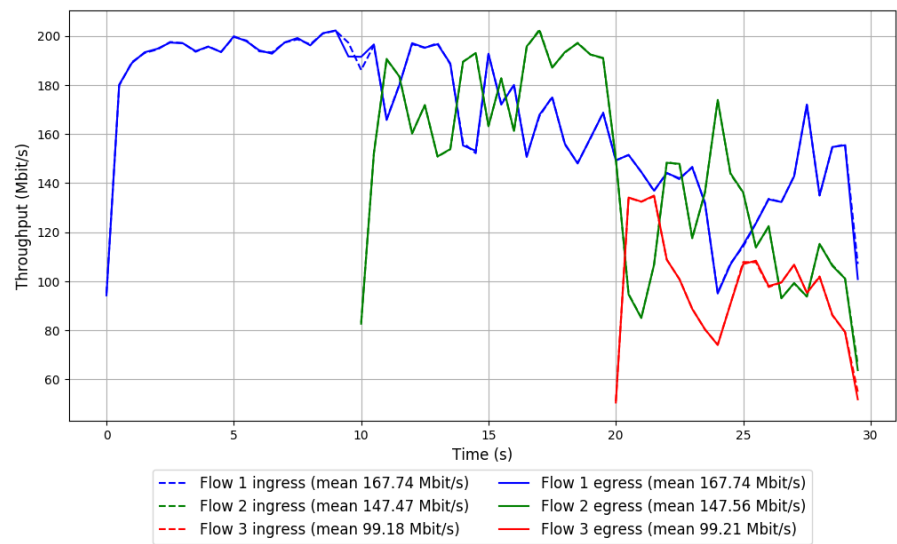
-- Flow 3:

Average throughput: 99.21 Mbit/s

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

Loss rate: 0.17%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-16 10:21:38

End at: 2017-11-16 10:22:08

Local clock offset: 0.867 ms

Remote clock offset: 0.04 ms

Below is generated by plot.py at 2017-11-16 15:47:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 305.30 Mbit/s

95th percentile per-packet one-way delay: 1.305 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 170.70 Mbit/s

95th percentile per-packet one-way delay: 1.290 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 148.38 Mbit/s

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

Loss rate: 0.13%

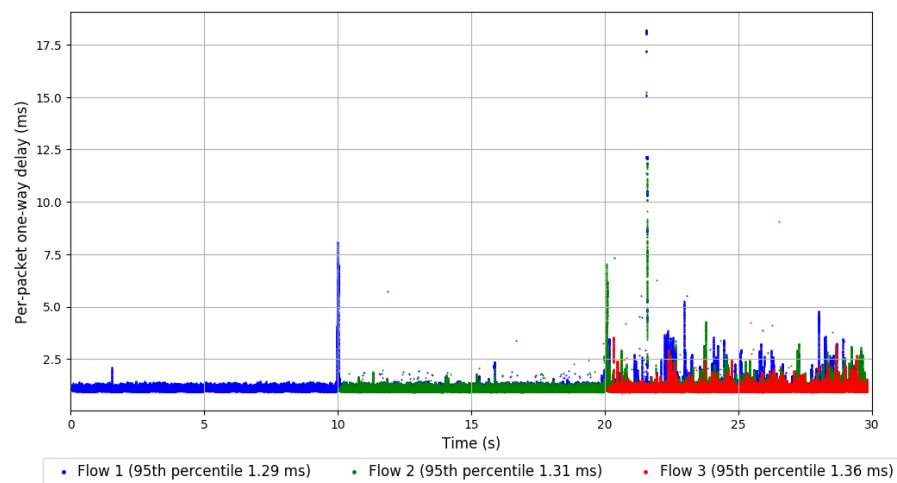
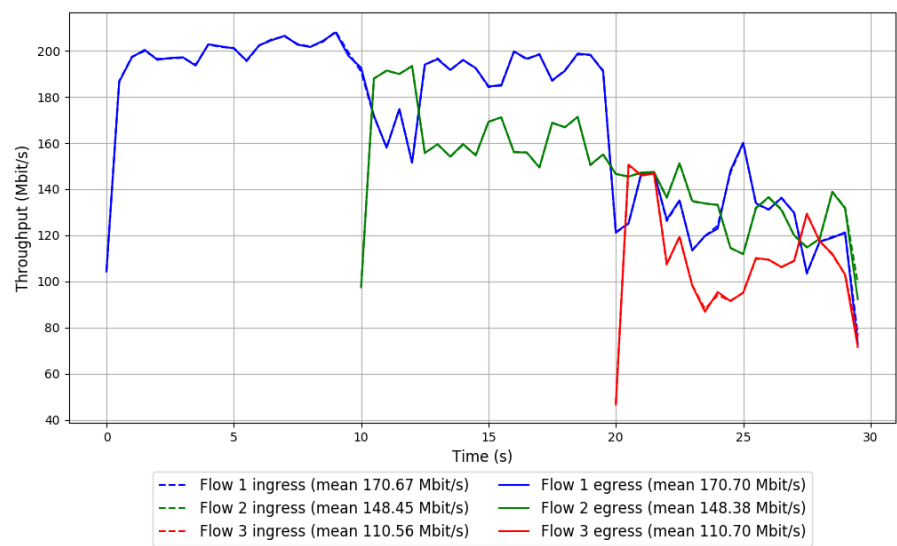
-- Flow 3:

Average throughput: 110.70 Mbit/s

95th percentile per-packet one-way delay: 1.363 ms

Loss rate: 0.21%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-11-16 10:41:59

End at: 2017-11-16 10:42:29

Local clock offset: 0.937 ms

Remote clock offset: 0.197 ms

Below is generated by plot.py at 2017-11-16 15:48:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.92 Mbit/s

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

Loss rate: 0.08%

-- Flow 1:

Average throughput: 171.12 Mbit/s

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

Loss rate: 0.05%

-- Flow 2:

Average throughput: 155.21 Mbit/s

95th percentile per-packet one-way delay: 1.251 ms

Loss rate: 0.09%

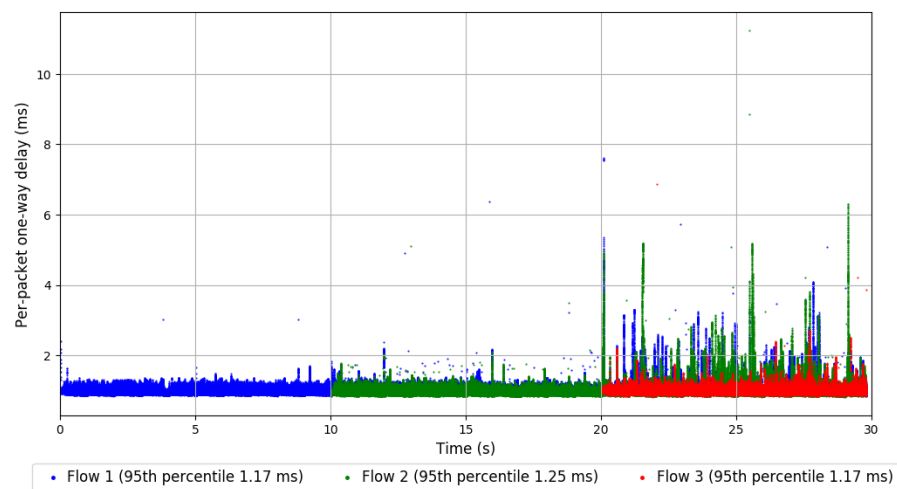
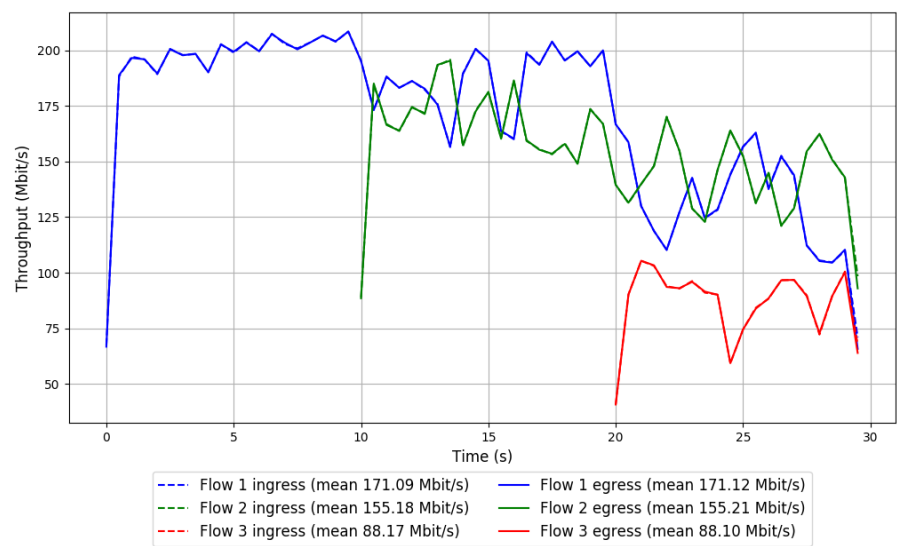
-- Flow 3:

Average throughput: 88.10 Mbit/s

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

Loss rate: 0.24%

Run 10: Report of Indigo — Data Link

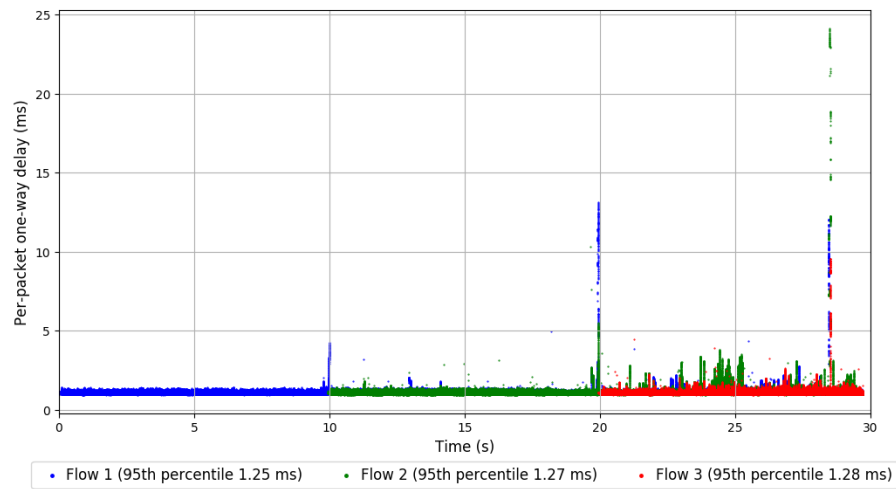
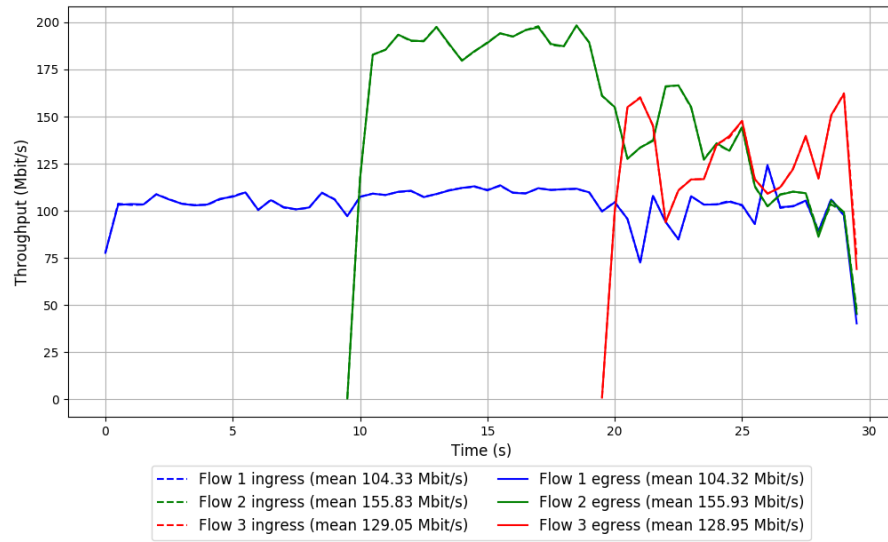


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-16 07:30:18
End at: 2017-11-16 07:30:48
Local clock offset: 0.837 ms
Remote clock offset: -1.88 ms

# Below is generated by plot.py at 2017-11-16 15:48:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 250.42 Mbit/s
95th percentile per-packet one-way delay: 1.259 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 104.32 Mbit/s
95th percentile per-packet one-way delay: 1.246 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 155.93 Mbit/s
95th percentile per-packet one-way delay: 1.272 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 128.95 Mbit/s
95th percentile per-packet one-way delay: 1.278 ms
Loss rate: 0.26%
```

Run 1: Report of Indigo-calib — Data Link

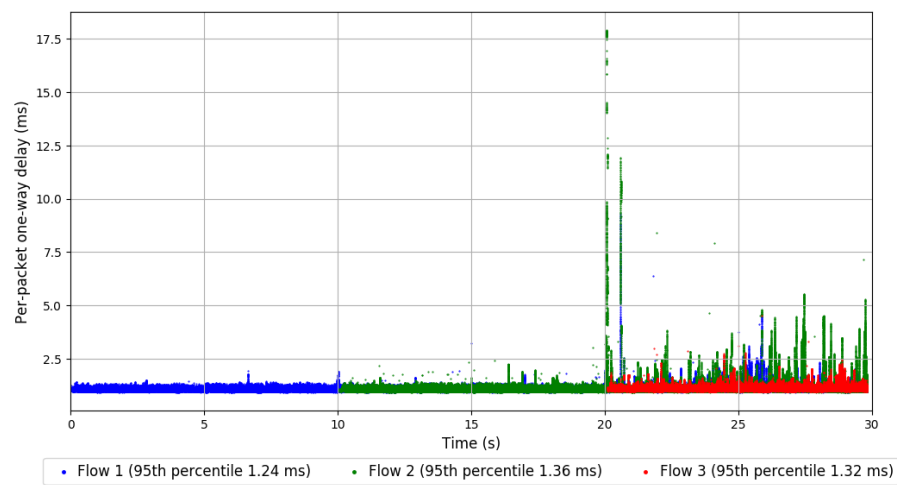
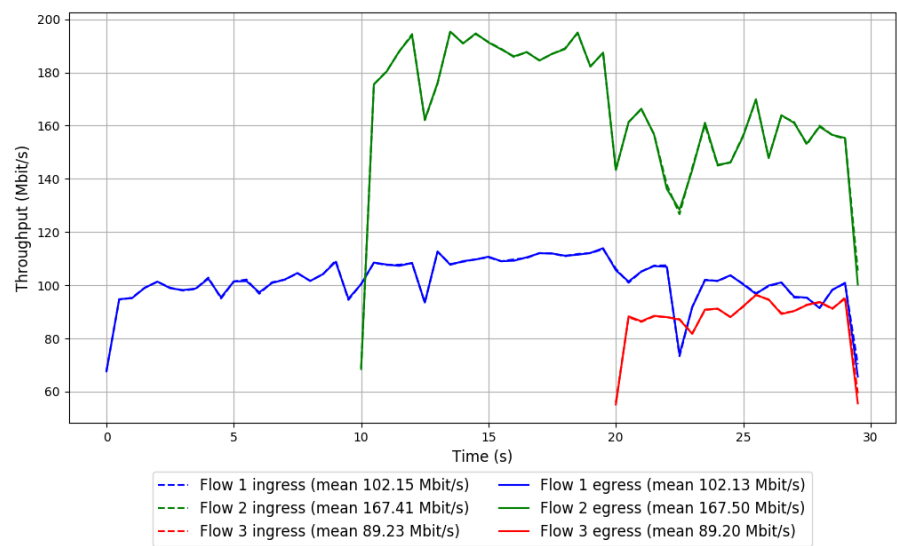


Run 2: Statistics of Indigo-calib

Start at: 2017-11-16 07:50:55
End at: 2017-11-16 07:51:25
Local clock offset: 0.702 ms
Remote clock offset: -1.299 ms

Below is generated by plot.py at 2017-11-16 15:48:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 242.18 Mbit/s
95th percentile per-packet one-way delay: 1.289 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 102.13 Mbit/s
95th percentile per-packet one-way delay: 1.237 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 167.50 Mbit/s
95th percentile per-packet one-way delay: 1.362 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 89.20 Mbit/s
95th percentile per-packet one-way delay: 1.319 ms
Loss rate: 0.24%

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-11-16 08:11:35

End at: 2017-11-16 08:12:05

Local clock offset: 0.793 ms

Remote clock offset: -1.14 ms

Below is generated by plot.py at 2017-11-16 15:48:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 216.79 Mbit/s

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

Loss rate: 0.12%

-- Flow 1:

Average throughput: 99.93 Mbit/s

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

Loss rate: 0.09%

-- Flow 2:

Average throughput: 126.09 Mbit/s

95th percentile per-packet one-way delay: 1.333 ms

Loss rate: 0.13%

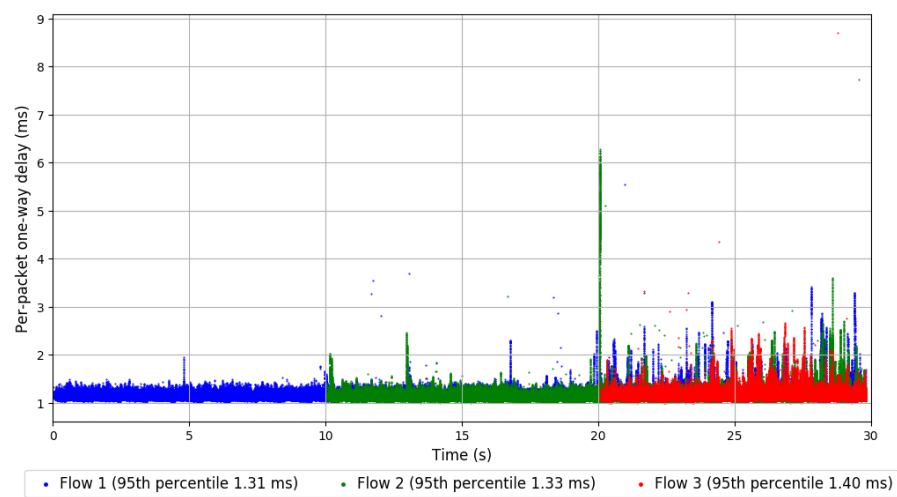
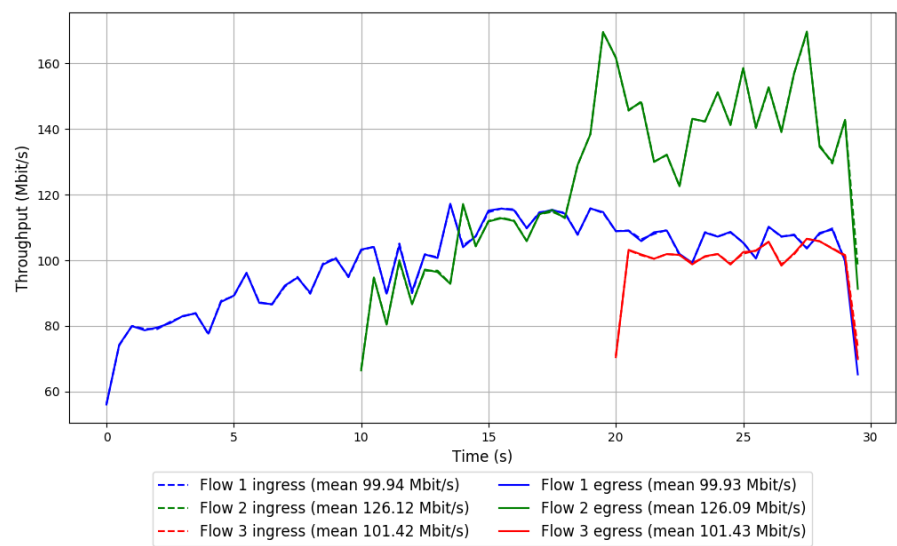
-- Flow 3:

Average throughput: 101.43 Mbit/s

95th percentile per-packet one-way delay: 1.400 ms

Loss rate: 0.20%

Run 3: Report of Indigo-calib — Data Link

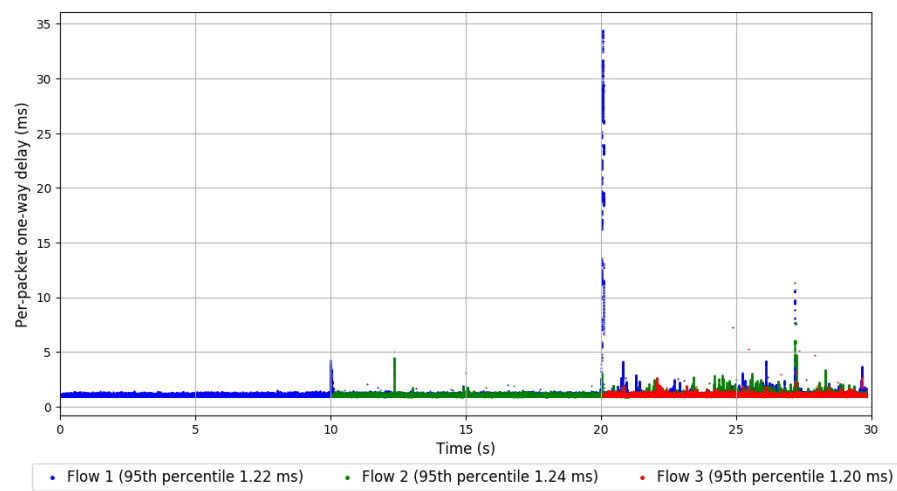
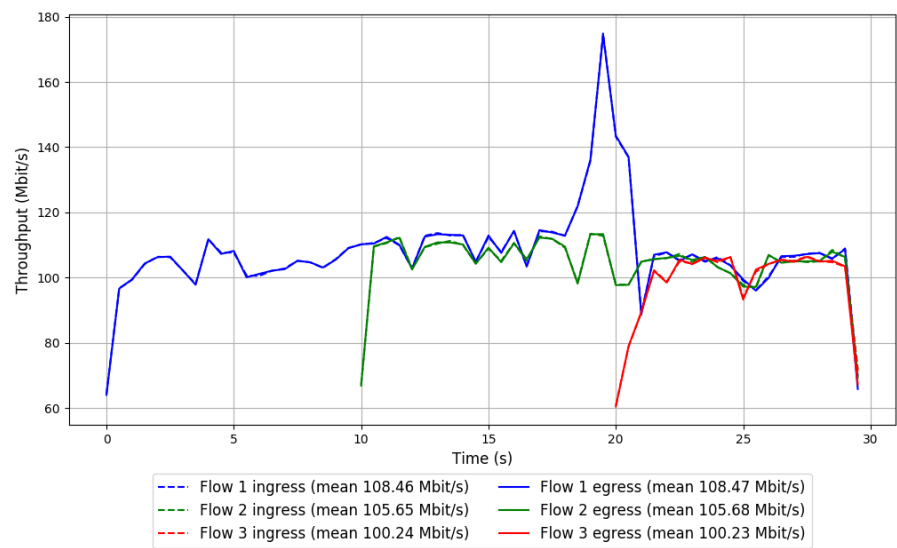


Run 4: Statistics of Indigo-calib

Start at: 2017-11-16 08:32:22
End at: 2017-11-16 08:32:52
Local clock offset: 0.948 ms
Remote clock offset: -1.002 ms

Below is generated by plot.py at 2017-11-16 15:48:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 211.26 Mbit/s
95th percentile per-packet one-way delay: 1.221 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 108.47 Mbit/s
95th percentile per-packet one-way delay: 1.215 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 105.68 Mbit/s
95th percentile per-packet one-way delay: 1.243 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 100.23 Mbit/s
95th percentile per-packet one-way delay: 1.204 ms
Loss rate: 0.21%

Run 4: Report of Indigo-calib — Data Link

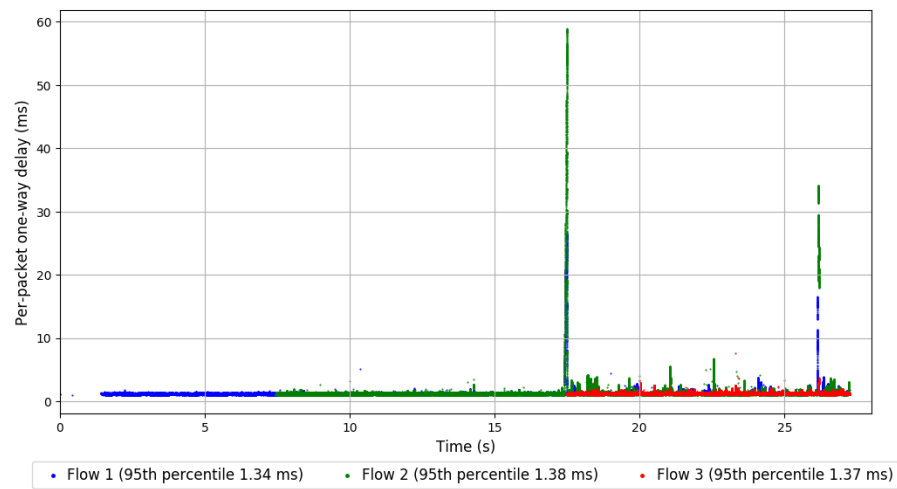
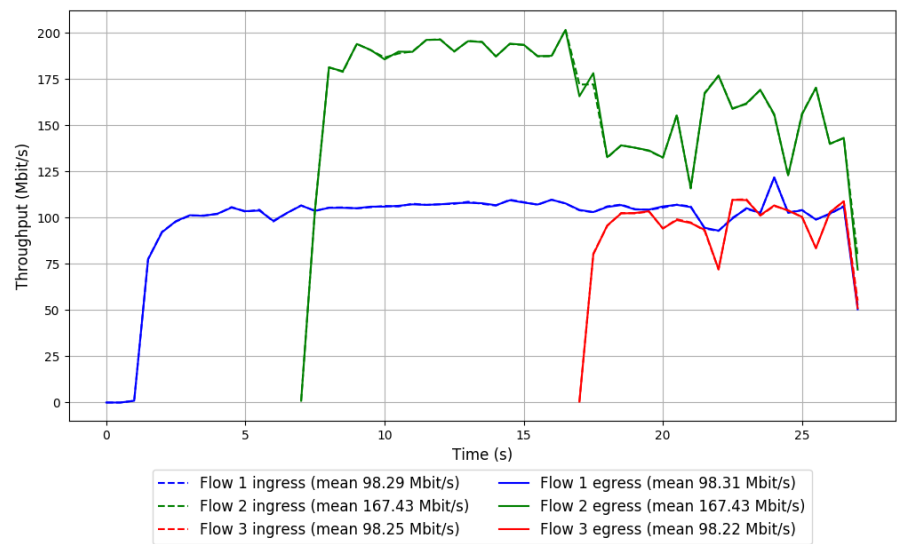


Run 5: Statistics of Indigo-calib

Start at: 2017-11-16 08:53:05
End at: 2017-11-16 08:53:35
Local clock offset: 1.18 ms
Remote clock offset: -0.659 ms

Below is generated by plot.py at 2017-11-16 15:48:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 255.24 Mbit/s
95th percentile per-packet one-way delay: 1.356 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 98.31 Mbit/s
95th percentile per-packet one-way delay: 1.337 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 167.43 Mbit/s
95th percentile per-packet one-way delay: 1.375 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 98.22 Mbit/s
95th percentile per-packet one-way delay: 1.367 ms
Loss rate: 0.23%

Run 5: Report of Indigo-calib — Data Link

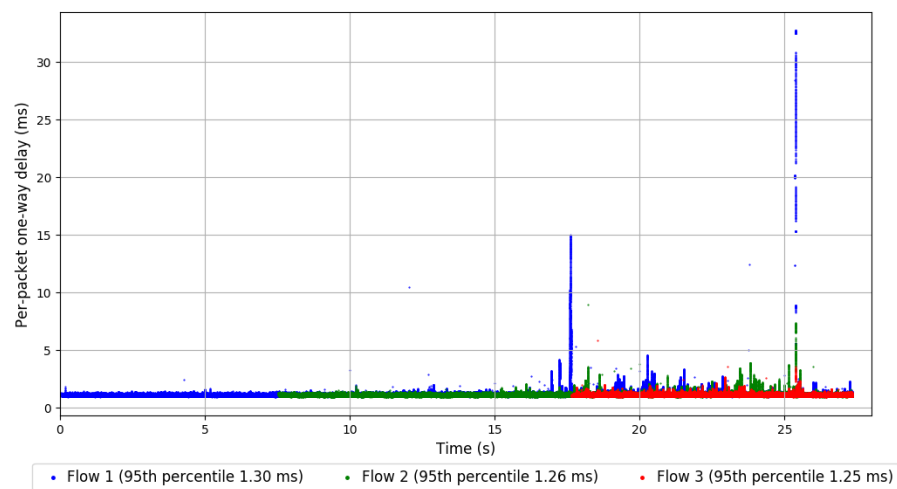
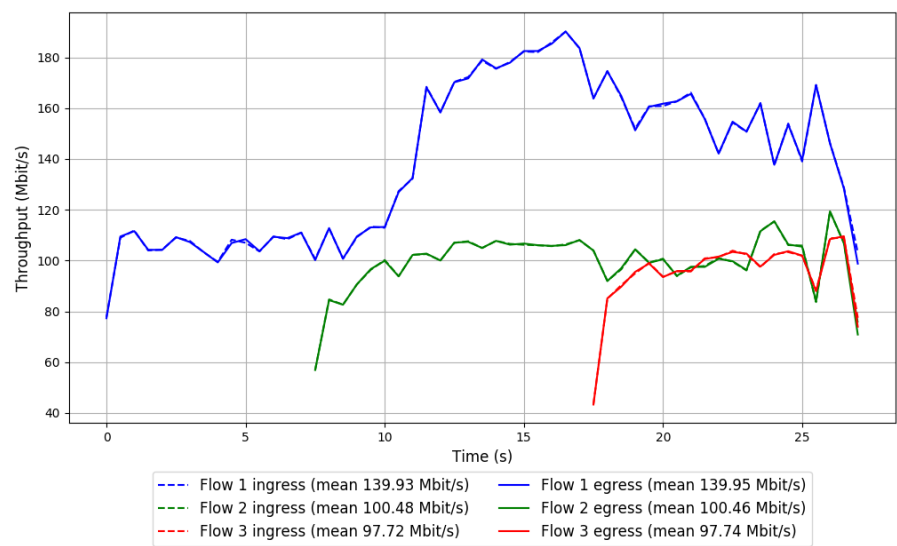


Run 6: Statistics of Indigo-calib

Start at: 2017-11-16 09:13:29
End at: 2017-11-16 09:13:59
Local clock offset: 1.147 ms
Remote clock offset: -0.515 ms

Below is generated by plot.py at 2017-11-16 15:49:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 247.31 Mbit/s
95th percentile per-packet one-way delay: 1.278 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 139.95 Mbit/s
95th percentile per-packet one-way delay: 1.297 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 100.46 Mbit/s
95th percentile per-packet one-way delay: 1.257 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 97.74 Mbit/s
95th percentile per-packet one-way delay: 1.251 ms
Loss rate: 0.19%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-11-16 09:33:59

End at: 2017-11-16 09:34:29

Local clock offset: 1.14 ms

Remote clock offset: -0.12 ms

Below is generated by plot.py at 2017-11-16 15:49:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 237.28 Mbit/s

95th percentile per-packet one-way delay: 1.174 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 99.71 Mbit/s

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

Loss rate: 0.05%

-- Flow 2:

Average throughput: 157.60 Mbit/s

95th percentile per-packet one-way delay: 1.290 ms

Loss rate: 0.12%

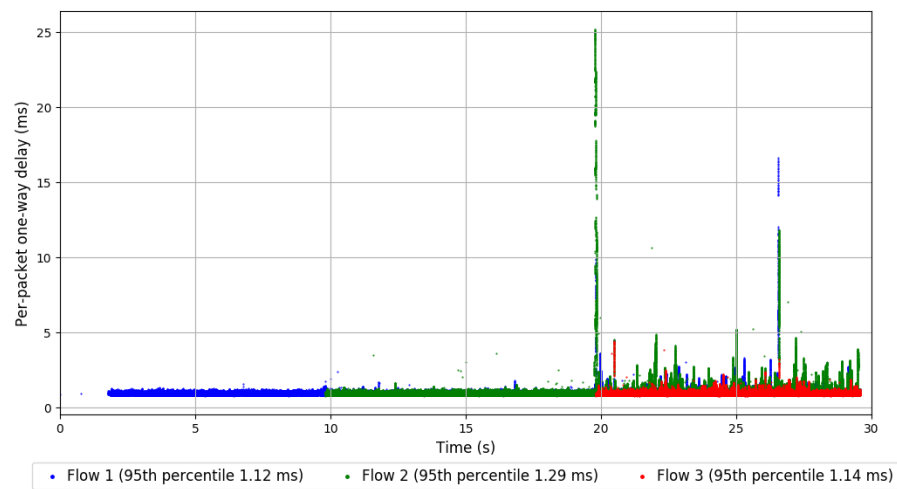
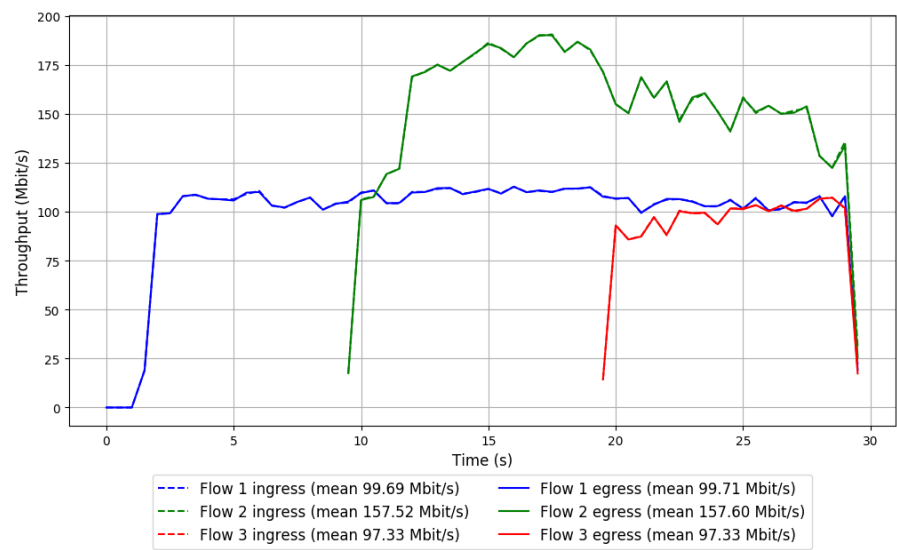
-- Flow 3:

Average throughput: 97.33 Mbit/s

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

Loss rate: 0.19%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-16 09:54:06

End at: 2017-11-16 09:54:36

Local clock offset: 1.079 ms

Remote clock offset: 0.087 ms

Below is generated by plot.py at 2017-11-16 15:49:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 243.73 Mbit/s

95th percentile per-packet one-way delay: 1.245 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 105.30 Mbit/s

95th percentile per-packet one-way delay: 1.196 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 163.40 Mbit/s

95th percentile per-packet one-way delay: 1.320 ms

Loss rate: 0.07%

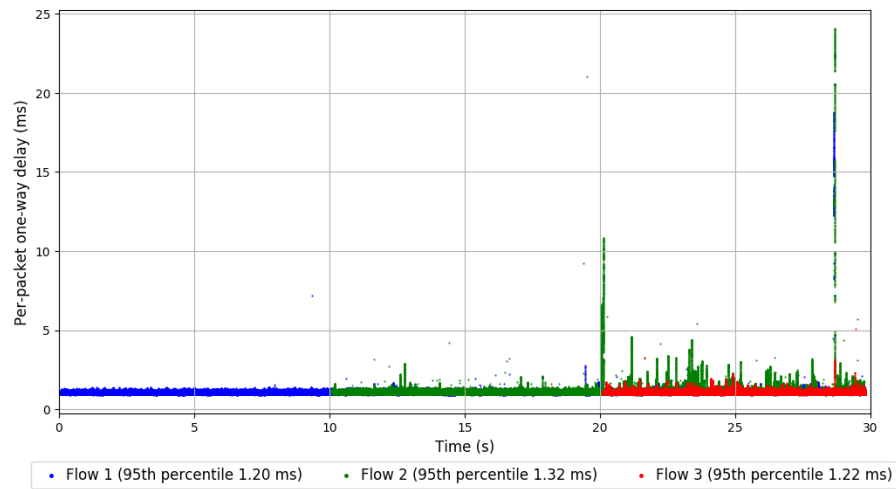
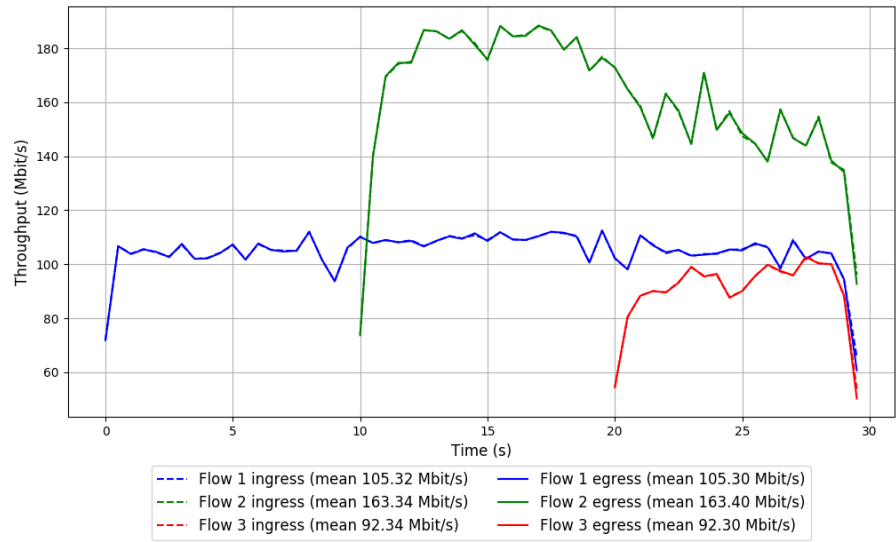
-- Flow 3:

Average throughput: 92.30 Mbit/s

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

Loss rate: 0.20%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-11-16 10:14:43

End at: 2017-11-16 10:15:13

Local clock offset: 0.895 ms

Remote clock offset: 0.061 ms

Below is generated by plot.py at 2017-11-16 15:49:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 207.75 Mbit/s

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

Loss rate: 0.09%

-- Flow 1:

Average throughput: 105.30 Mbit/s

95th percentile per-packet one-way delay: 1.214 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 106.69 Mbit/s

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

Loss rate: 0.08%

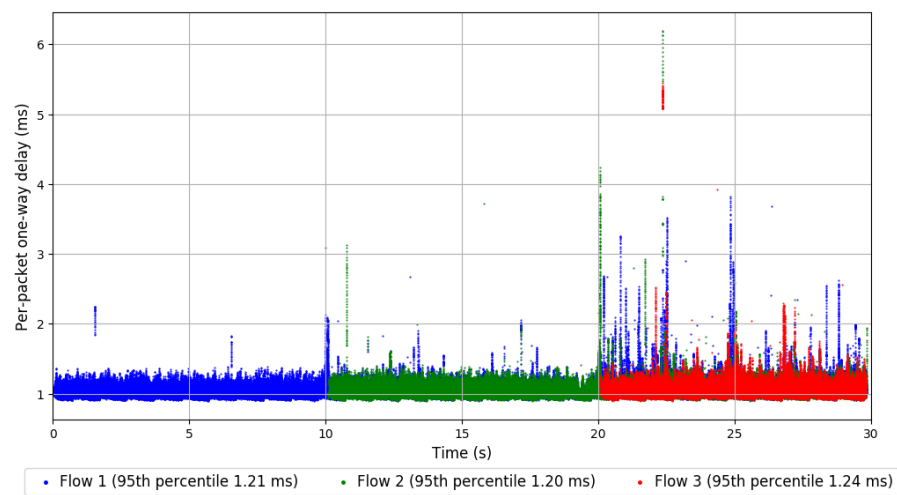
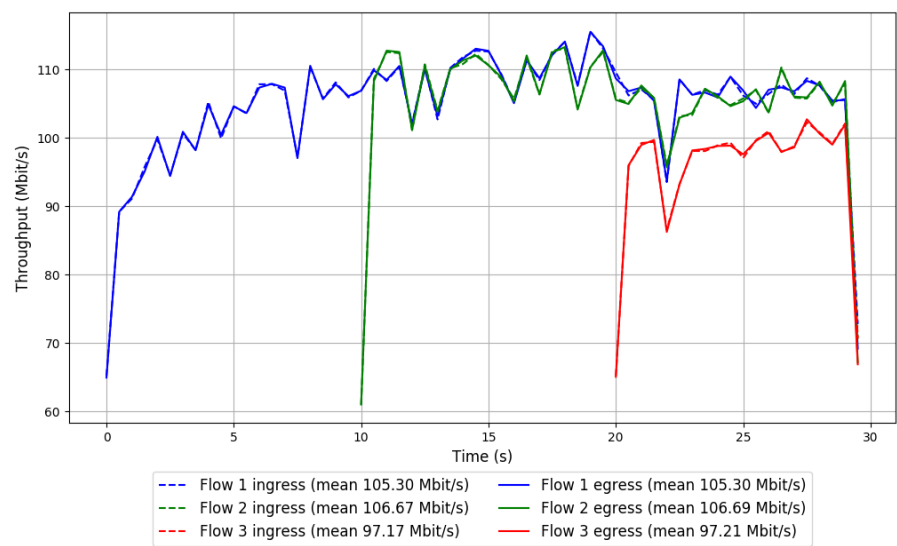
-- Flow 3:

Average throughput: 97.21 Mbit/s

95th percentile per-packet one-way delay: 1.237 ms

Loss rate: 0.22%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-16 10:35:02

End at: 2017-11-16 10:35:32

Local clock offset: 0.923 ms

Remote clock offset: 0.083 ms

Below is generated by plot.py at 2017-11-16 15:49:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 230.07 Mbit/s

95th percentile per-packet one-way delay: 1.316 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 130.10 Mbit/s

95th percentile per-packet one-way delay: 1.323 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 102.49 Mbit/s

95th percentile per-packet one-way delay: 1.302 ms

Loss rate: 0.09%

-- Flow 3:

Average throughput: 97.68 Mbit/s

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

Loss rate: 0.17%

Run 10: Report of Indigo-calib — Data Link

