

Pantheon Report

Generated at 2017-09-19 00:24:39 (UTC).

Data path: China Ethernet (*remote*) → AWS Korea Ethernet (*local*).

Repeated the test of 10 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).

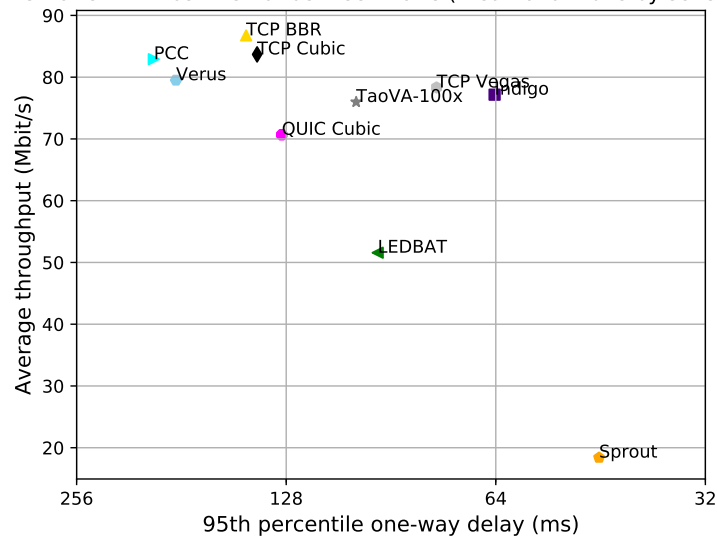
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

NTP offsets were measured against `ntp.nict.jp` and have been applied to correct the timestamps in logs.

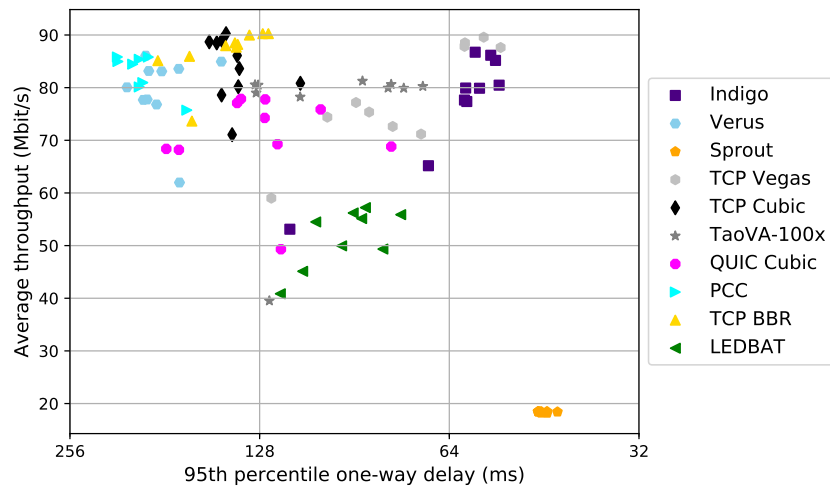
Git summary:

```
branch: master @ 57453dc11f8da93a2e03eea75289fea01b816298
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
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-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
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 China Ethernet to AWS Korea Ethernet, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from China Ethernet to AWS Korea Ethernet, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows



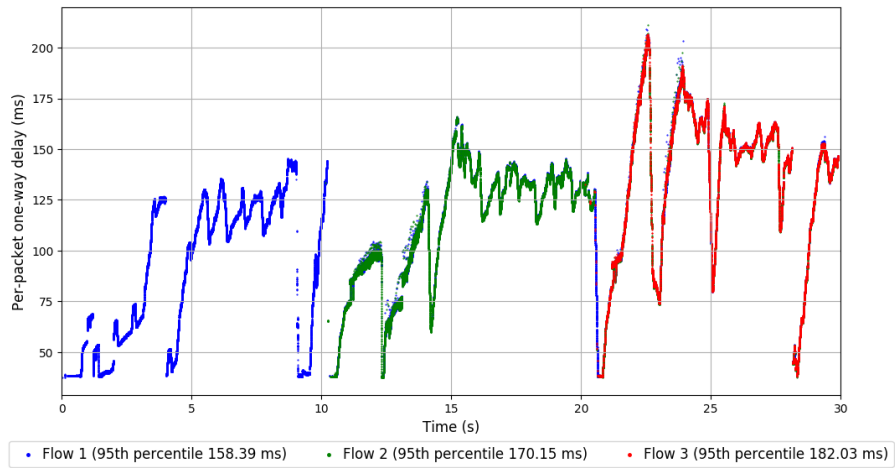
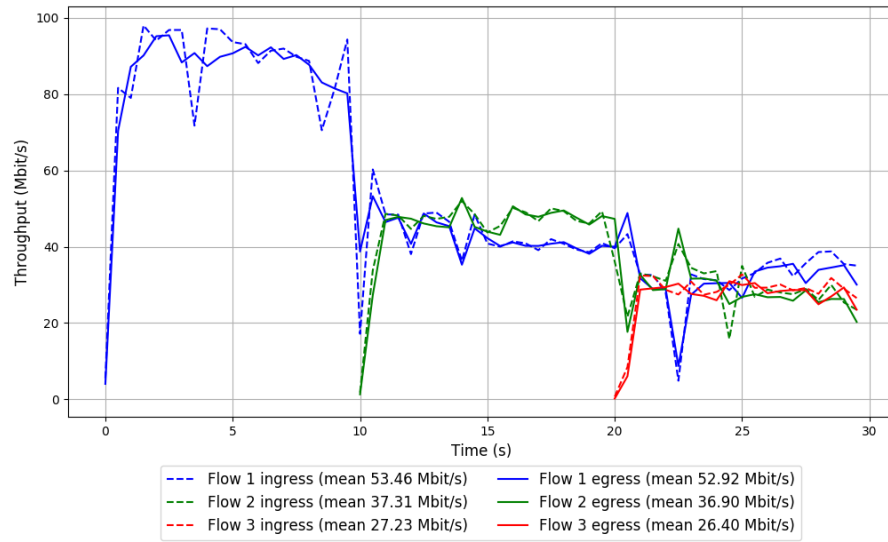
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	53.54	36.25	28.17	143.50	148.40	149.83	1.08	1.48	2.89
TCP Cubic	10	54.08	29.36	30.50	138.63	142.05	141.47	0.44	0.95	1.98
Indigo	10	49.44	29.75	24.28	62.10	64.65	69.56	0.24	0.41	0.95
LEDBAT	9	35.89	20.69	6.08	92.37	97.76	105.44	0.43	0.75	2.08
PCC	8	63.01	21.19	17.05	197.78	198.40	200.77	3.73	4.98	7.51
QUIC Cubic	10	45.58	29.43	16.95	125.89	131.83	147.06	0.53	0.99	2.05
Sprout	10	9.31	9.24	9.03	45.43	45.25	45.92	0.29	0.37	0.85
TaoVA-100x	10	45.77	35.59	26.46	97.95	104.03	106.09	2.46	3.10	4.44
TCP Vegas	10	52.26	32.12	14.39	75.62	80.10	74.30	0.26	0.52	1.13
Verus	10	49.36	33.11	25.50	174.24	187.03	195.99	1.42	1.61	3.21

Run 1: Statistics of TCP BBR

Start at: 2017-09-18 19:58:40
End at: 2017-09-18 19:59:10
Local clock offset: -13.449 ms
Remote clock offset: -1.196 ms

Below is generated by plot.py at 2017-09-19 00:11:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.95 Mbit/s
95th percentile per-packet one-way delay: 165.387 ms
Loss rate: 1.88%
-- Flow 1:
Average throughput: 52.92 Mbit/s
95th percentile per-packet one-way delay: 158.393 ms
Loss rate: 1.31%
-- Flow 2:
Average throughput: 36.90 Mbit/s
95th percentile per-packet one-way delay: 170.146 ms
Loss rate: 2.01%
-- Flow 3:
Average throughput: 26.40 Mbit/s
95th percentile per-packet one-way delay: 182.029 ms
Loss rate: 4.90%

Run 1: Report of TCP BBR — Data Link

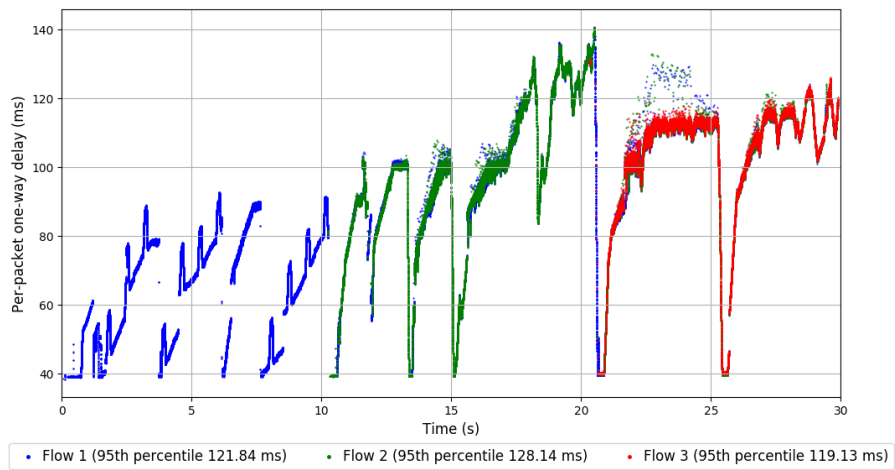
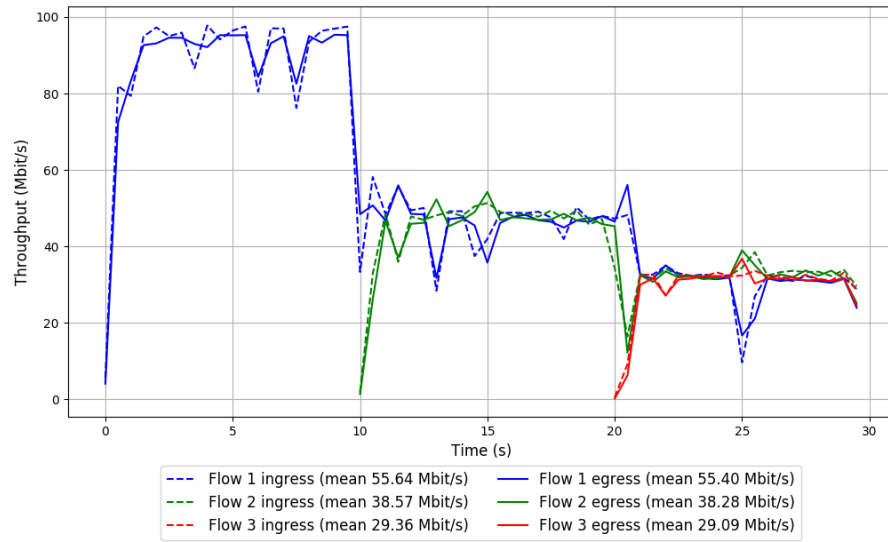


Run 2: Statistics of TCP BBR

Start at: 2017-09-18 20:11:37
End at: 2017-09-18 20:12:07
Local clock offset: -24.879 ms
Remote clock offset: -1.177 ms

Below is generated by plot.py at 2017-09-19 00:11:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.26 Mbit/s
95th percentile per-packet one-way delay: 123.974 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 55.40 Mbit/s
95th percentile per-packet one-way delay: 121.841 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 38.28 Mbit/s
95th percentile per-packet one-way delay: 128.137 ms
Loss rate: 1.48%
-- Flow 3:
Average throughput: 29.09 Mbit/s
95th percentile per-packet one-way delay: 119.134 ms
Loss rate: 2.83%

Run 2: Report of TCP BBR — Data Link

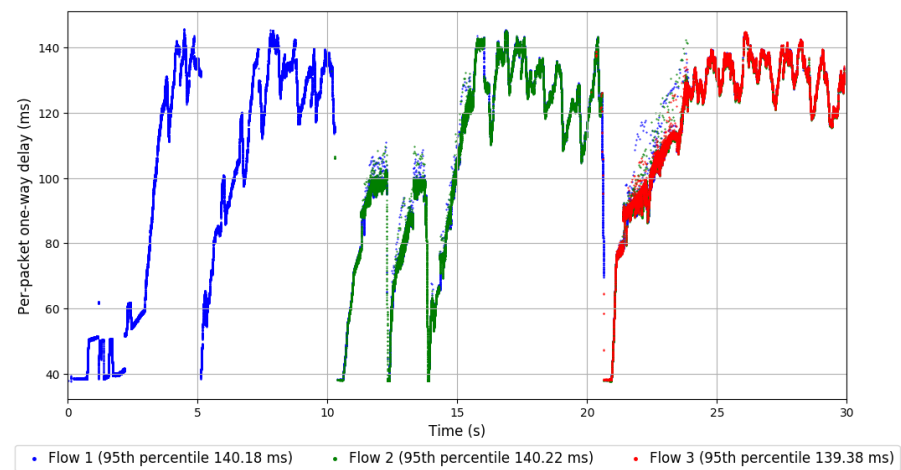
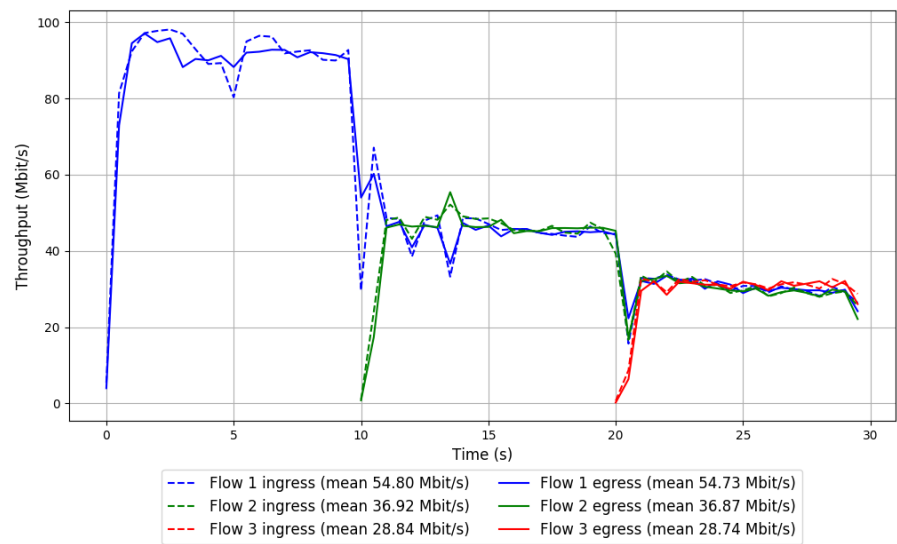


Run 3: Statistics of TCP BBR

Start at: 2017-09-18 20:24:11
End at: 2017-09-18 20:24:41
Local clock offset: -24.015 ms
Remote clock offset: -1.15 ms

Below is generated by plot.py at 2017-09-19 00:11:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.51 Mbit/s
95th percentile per-packet one-way delay: 140.094 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 54.73 Mbit/s
95th percentile per-packet one-way delay: 140.175 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 36.87 Mbit/s
95th percentile per-packet one-way delay: 140.219 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 28.74 Mbit/s
95th percentile per-packet one-way delay: 139.384 ms
Loss rate: 2.11%

Run 3: Report of TCP BBR — Data Link

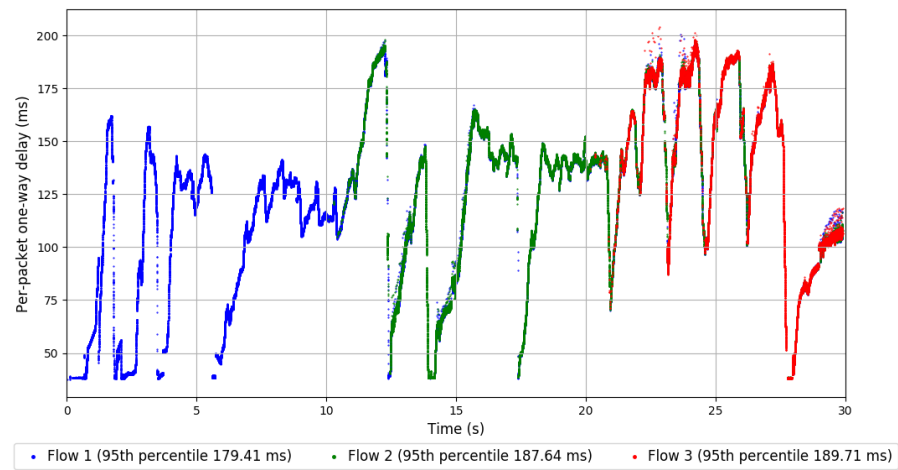
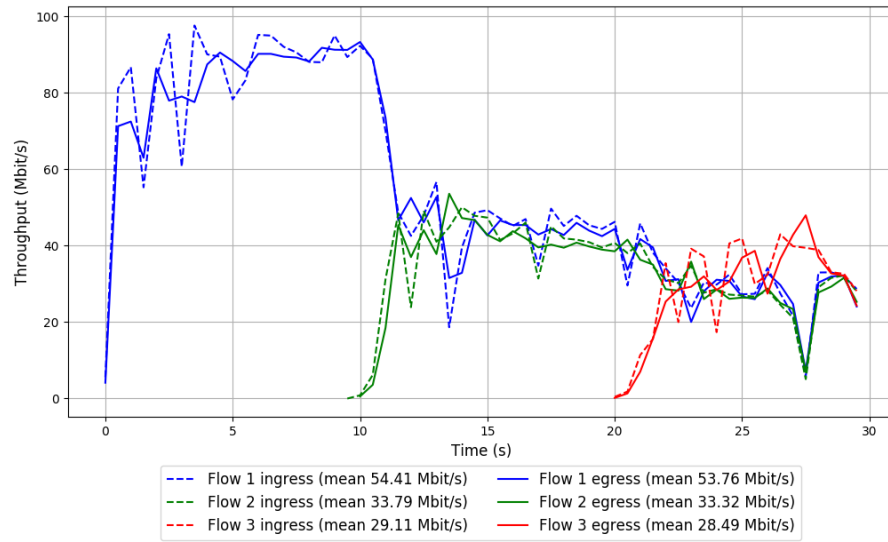


Run 4: Statistics of TCP BBR

Start at: 2017-09-18 20:36:44
End at: 2017-09-18 20:37:14
Local clock offset: -5.818 ms
Remote clock offset: -1.184 ms

Below is generated by plot.py at 2017-09-19 00:11:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.13 Mbit/s
95th percentile per-packet one-way delay: 185.659 ms
Loss rate: 2.02%
-- Flow 1:
Average throughput: 53.76 Mbit/s
95th percentile per-packet one-way delay: 179.411 ms
Loss rate: 1.57%
-- Flow 2:
Average throughput: 33.32 Mbit/s
95th percentile per-packet one-way delay: 187.638 ms
Loss rate: 2.24%
-- Flow 3:
Average throughput: 28.49 Mbit/s
95th percentile per-packet one-way delay: 189.707 ms
Loss rate: 4.05%

Run 4: Report of TCP BBR — Data Link

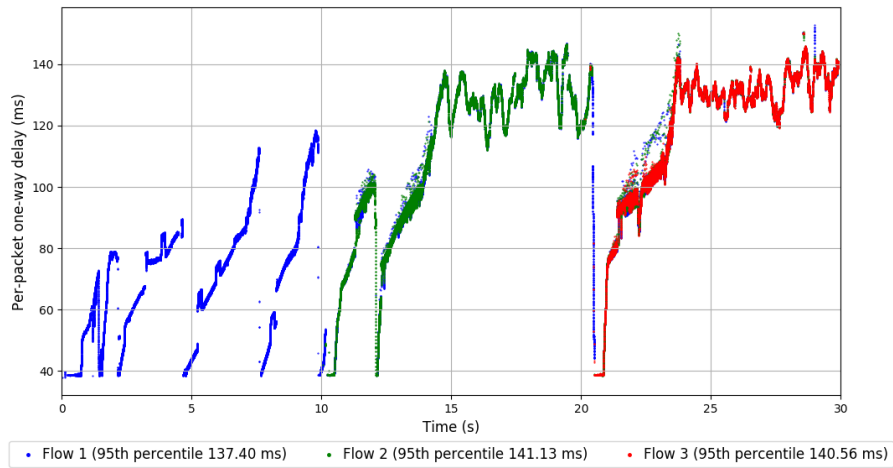
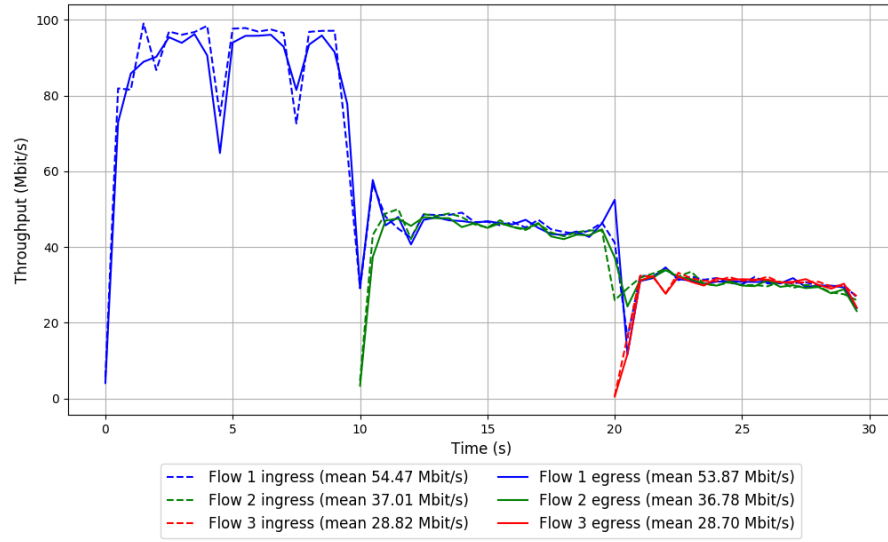


Run 5: Statistics of TCP BBR

Start at: 2017-09-18 20:49:18
End at: 2017-09-18 20:49:48
Local clock offset: -4.856 ms
Remote clock offset: -1.255 ms

Below is generated by plot.py at 2017-09-19 00:11:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.69 Mbit/s
95th percentile per-packet one-way delay: 139.404 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 53.87 Mbit/s
95th percentile per-packet one-way delay: 137.396 ms
Loss rate: 1.39%
-- Flow 2:
Average throughput: 36.78 Mbit/s
95th percentile per-packet one-way delay: 141.134 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 28.70 Mbit/s
95th percentile per-packet one-way delay: 140.563 ms
Loss rate: 2.12%

Run 5: Report of TCP BBR — Data Link

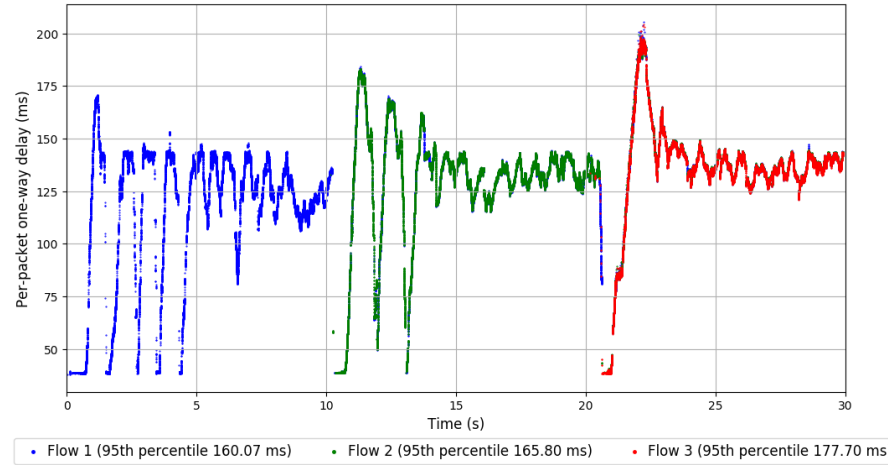
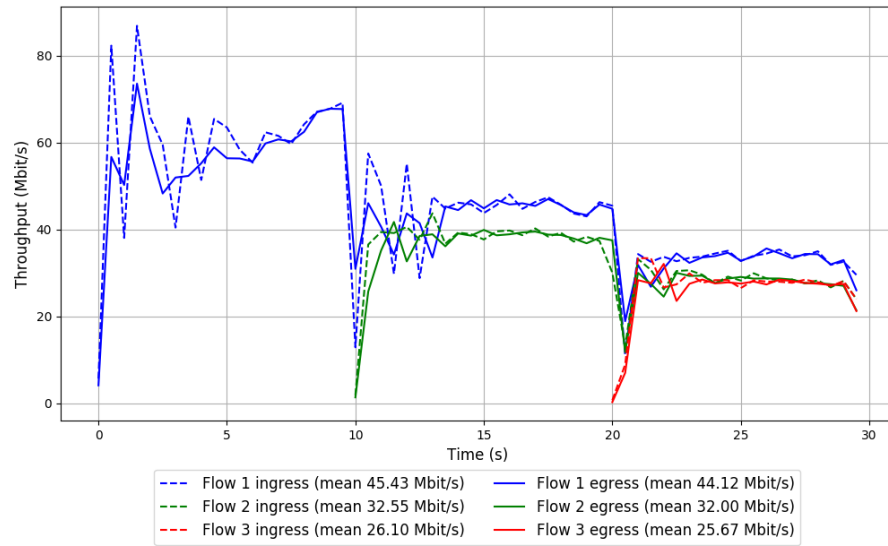


Run 6: Statistics of TCP BBR

Start at: 2017-09-18 21:01:52
End at: 2017-09-18 21:02:22
Local clock offset: -5.984 ms
Remote clock offset: -1.238 ms

Below is generated by plot.py at 2017-09-19 00:11:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.65 Mbit/s
95th percentile per-packet one-way delay: 163.967 ms
Loss rate: 3.04%
-- Flow 1:
Average throughput: 44.12 Mbit/s
95th percentile per-packet one-way delay: 160.068 ms
Loss rate: 3.17%
-- Flow 2:
Average throughput: 32.00 Mbit/s
95th percentile per-packet one-way delay: 165.803 ms
Loss rate: 2.59%
-- Flow 3:
Average throughput: 25.67 Mbit/s
95th percentile per-packet one-way delay: 177.698 ms
Loss rate: 3.43%

Run 6: Report of TCP BBR — Data Link

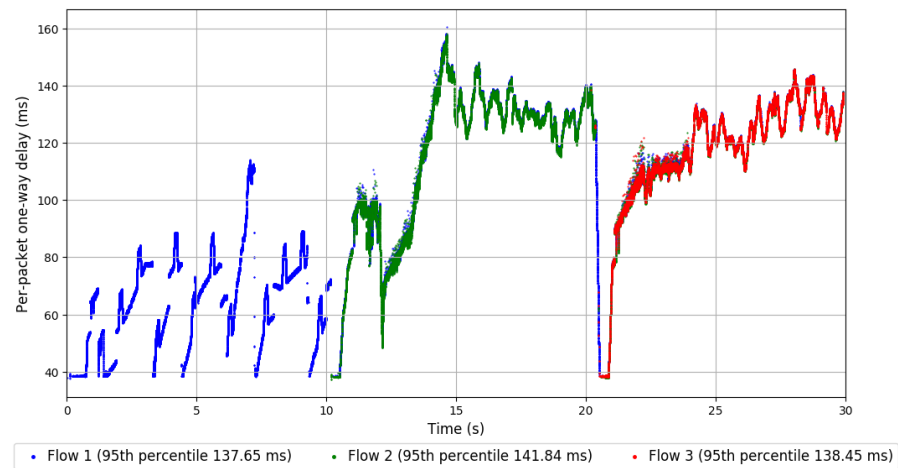
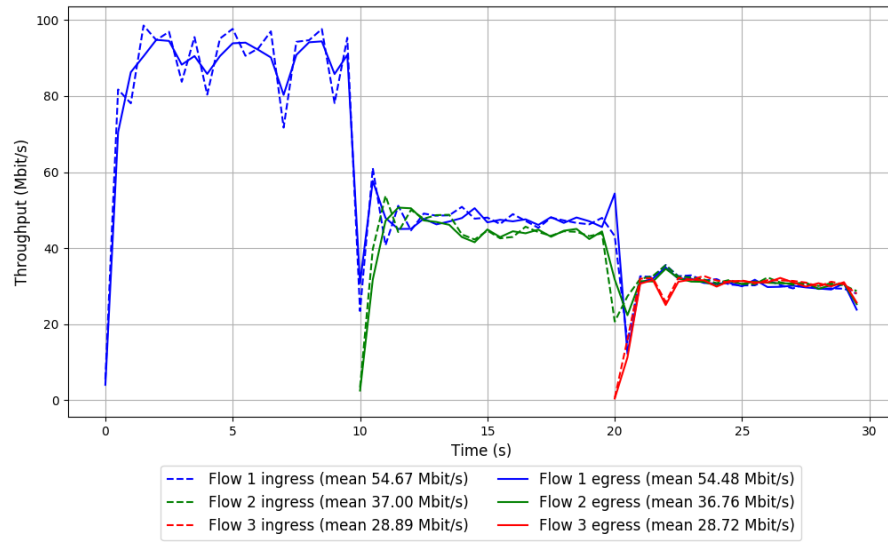


Run 7: Statistics of TCP BBR

Start at: 2017-09-18 21:14:21
End at: 2017-09-18 21:14:51
Local clock offset: -5.644 ms
Remote clock offset: -1.221 ms

Below is generated by plot.py at 2017-09-19 00:11:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.21 Mbit/s
95th percentile per-packet one-way delay: 138.669 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 54.48 Mbit/s
95th percentile per-packet one-way delay: 137.646 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 36.76 Mbit/s
95th percentile per-packet one-way delay: 141.843 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 28.72 Mbit/s
95th percentile per-packet one-way delay: 138.448 ms
Loss rate: 2.48%

Run 7: Report of TCP BBR — Data Link

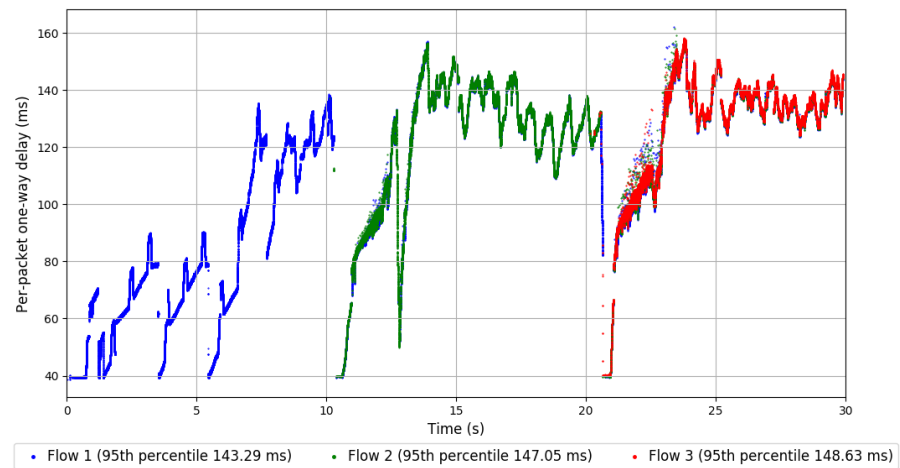
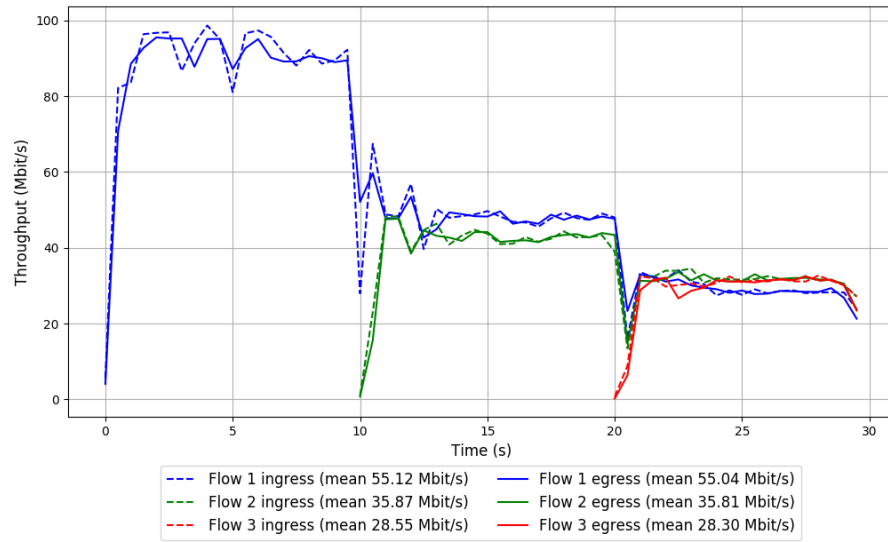


Run 8: Statistics of TCP BBR

Start at: 2017-09-18 21:26:54
End at: 2017-09-18 21:27:24
Local clock offset: -4.137 ms
Remote clock offset: -1.219 ms

Below is generated by plot.py at 2017-09-19 00:11:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.97 Mbit/s
95th percentile per-packet one-way delay: 144.903 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 55.04 Mbit/s
95th percentile per-packet one-way delay: 143.287 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 35.81 Mbit/s
95th percentile per-packet one-way delay: 147.050 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 28.30 Mbit/s
95th percentile per-packet one-way delay: 148.635 ms
Loss rate: 2.57%

Run 8: Report of TCP BBR — Data Link

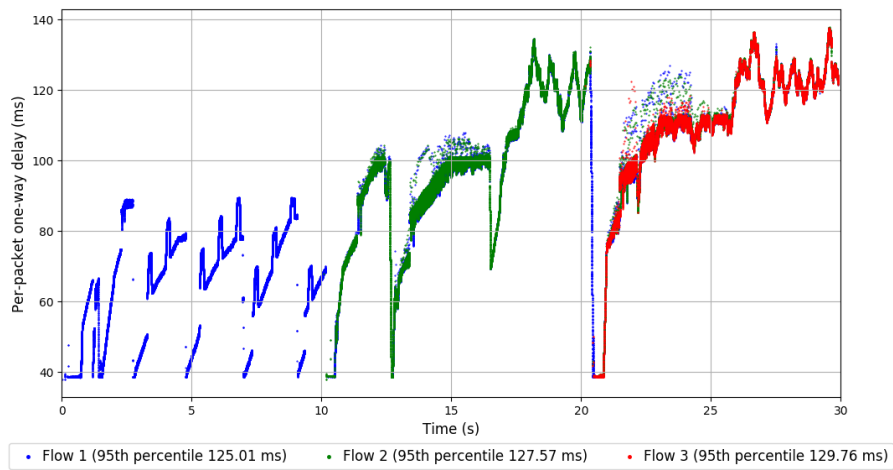
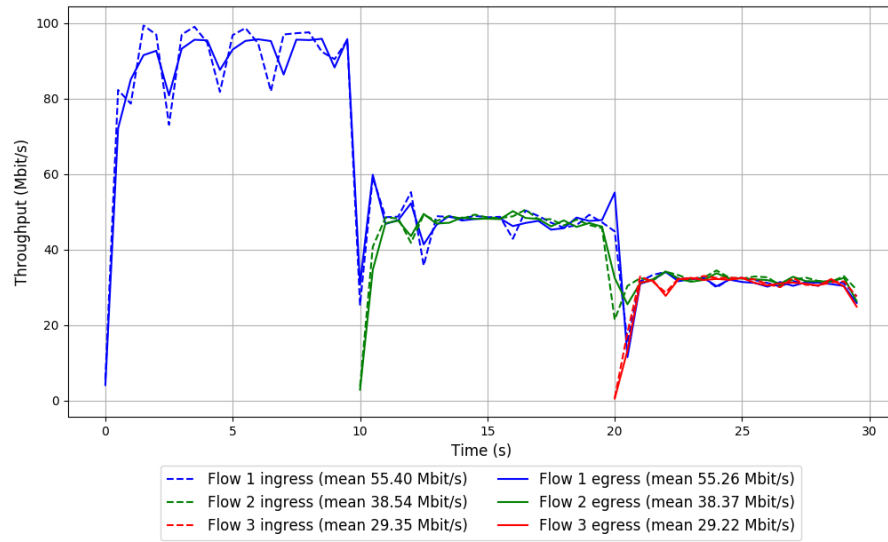


Run 9: Statistics of TCP BBR

Start at: 2017-09-18 21:39:26
End at: 2017-09-18 21:39:56
Local clock offset: -6.7 ms
Remote clock offset: -1.196 ms

Below is generated by plot.py at 2017-09-19 00:12:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.26 Mbit/s
95th percentile per-packet one-way delay: 126.541 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 55.26 Mbit/s
95th percentile per-packet one-way delay: 125.009 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 38.37 Mbit/s
95th percentile per-packet one-way delay: 127.570 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 29.22 Mbit/s
95th percentile per-packet one-way delay: 129.759 ms
Loss rate: 2.28%

Run 9: Report of TCP BBR — Data Link

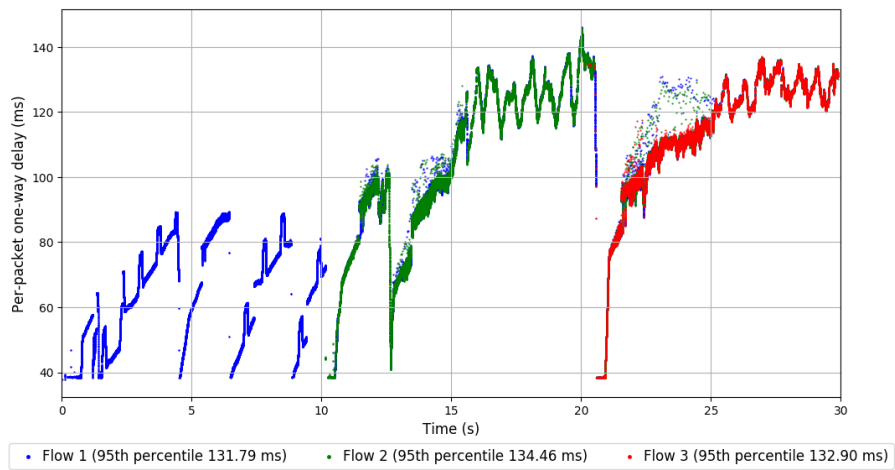
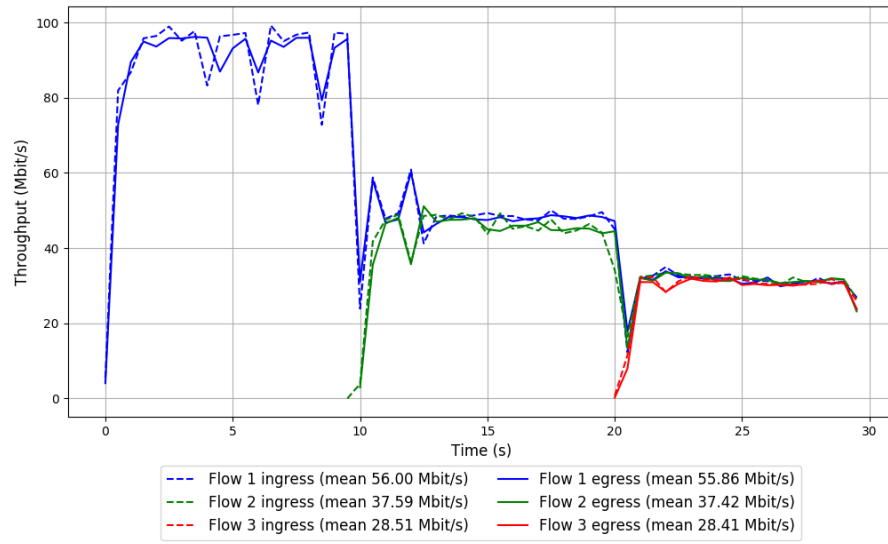


Run 10: Statistics of TCP BBR

Start at: 2017-09-18 21:52:01
End at: 2017-09-18 21:52:31
Local clock offset: -8.142 ms
Remote clock offset: -1.066 ms

Below is generated by plot.py at 2017-09-19 00:12:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.99 Mbit/s
95th percentile per-packet one-way delay: 132.868 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 55.86 Mbit/s
95th percentile per-packet one-way delay: 131.788 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 37.42 Mbit/s
95th percentile per-packet one-way delay: 134.456 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 28.41 Mbit/s
95th percentile per-packet one-way delay: 132.897 ms
Loss rate: 2.17%

Run 10: Report of TCP BBR — Data Link

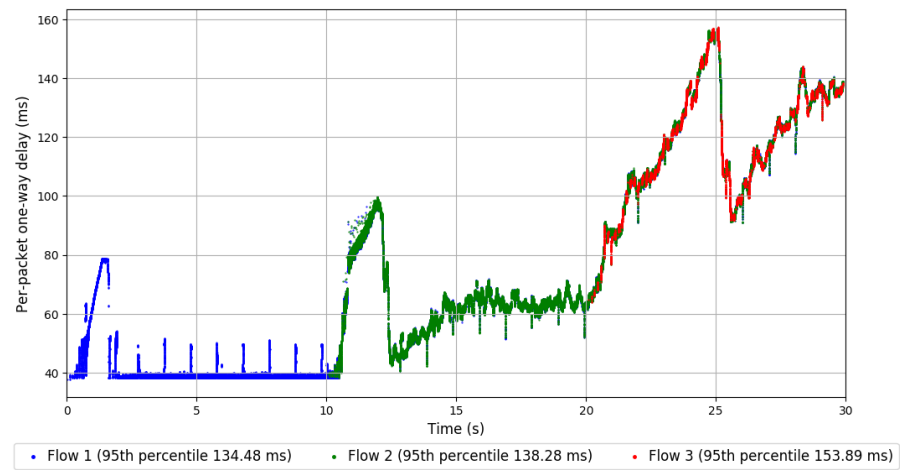
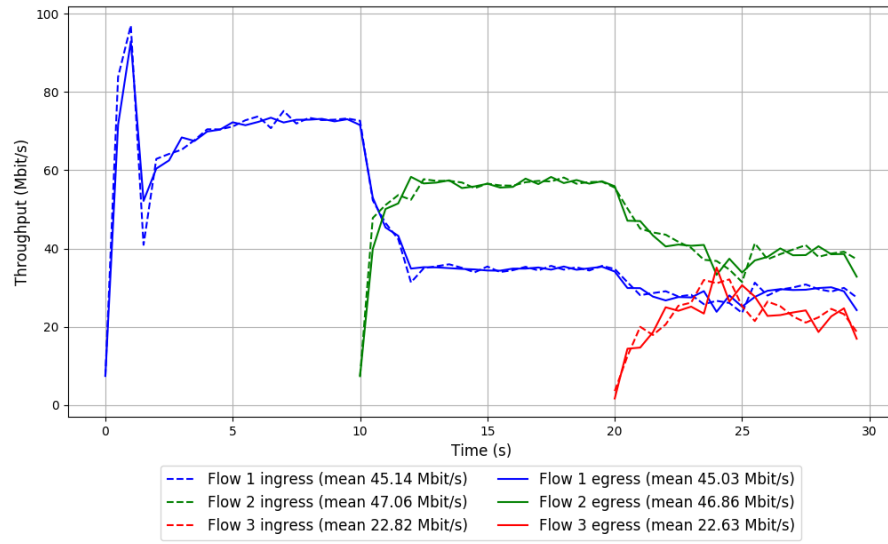


Run 1: Statistics of TCP Cubic

Start at: 2017-09-18 19:57:25
End at: 2017-09-18 19:57:55
Local clock offset: -14.402 ms
Remote clock offset: -1.221 ms

Below is generated by plot.py at 2017-09-19 00:12:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.62 Mbit/s
95th percentile per-packet one-way delay: 137.835 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 45.03 Mbit/s
95th percentile per-packet one-way delay: 134.483 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 46.86 Mbit/s
95th percentile per-packet one-way delay: 138.282 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 22.63 Mbit/s
95th percentile per-packet one-way delay: 153.892 ms
Loss rate: 1.97%

Run 1: Report of TCP Cubic — Data Link

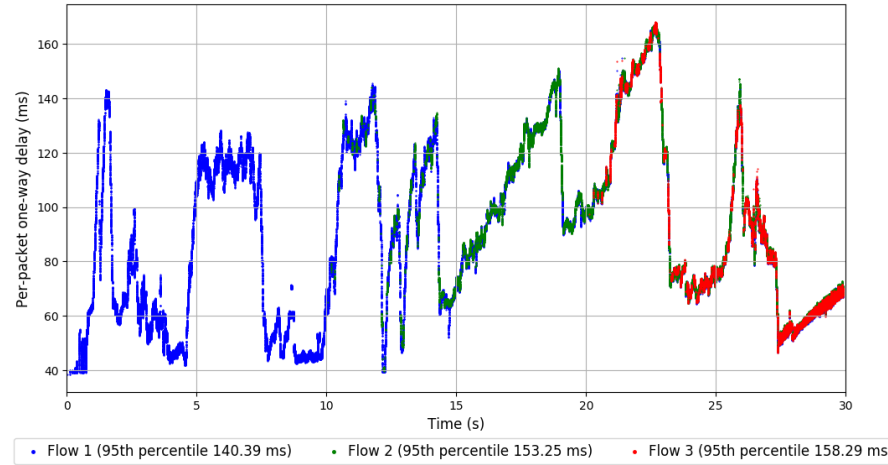
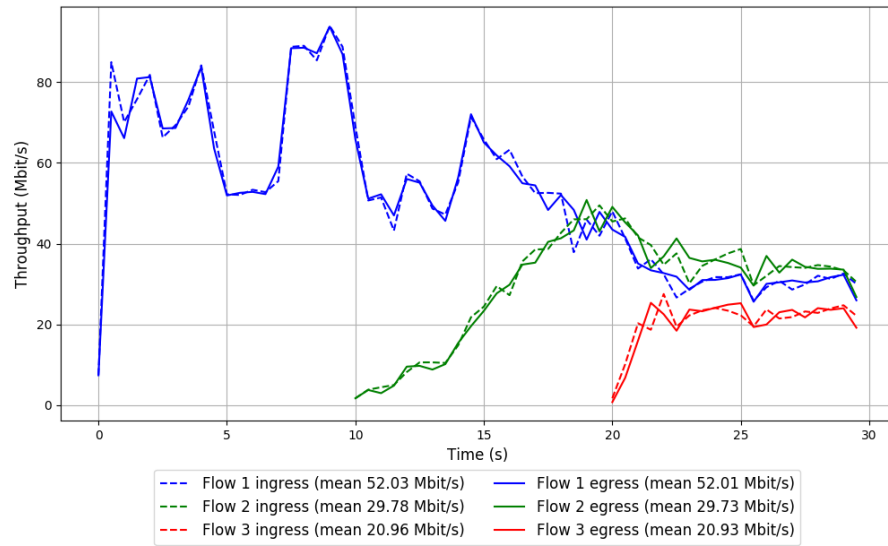


Run 2: Statistics of TCP Cubic

Start at: 2017-09-18 20:10:22
End at: 2017-09-18 20:10:52
Local clock offset: -23.062 ms
Remote clock offset: -1.172 ms

Below is generated by plot.py at 2017-09-19 00:12:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.60 Mbit/s
95th percentile per-packet one-way delay: 147.099 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 52.01 Mbit/s
95th percentile per-packet one-way delay: 140.388 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 29.73 Mbit/s
95th percentile per-packet one-way delay: 153.252 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 20.93 Mbit/s
95th percentile per-packet one-way delay: 158.286 ms
Loss rate: 1.72%

Run 2: Report of TCP Cubic — Data Link

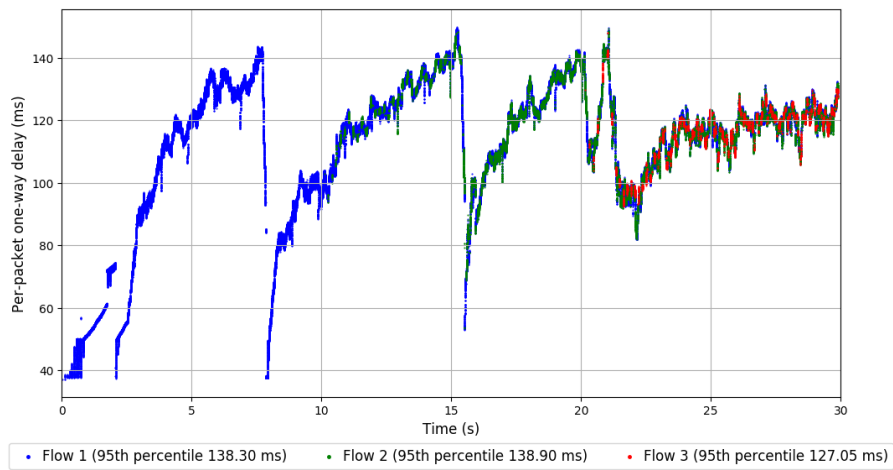
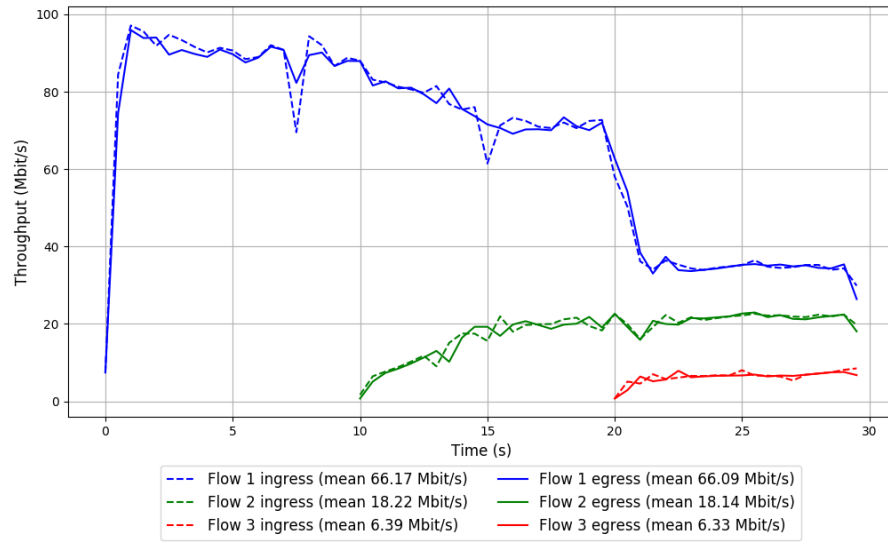


Run 3: Statistics of TCP Cubic

Start at: 2017-09-18 20:22:56
End at: 2017-09-18 20:23:26
Local clock offset: -25.727 ms
Remote clock offset: -1.14 ms

Below is generated by plot.py at 2017-09-19 00:12:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.18 Mbit/s
95th percentile per-packet one-way delay: 138.370 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 66.09 Mbit/s
95th percentile per-packet one-way delay: 138.298 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 18.14 Mbit/s
95th percentile per-packet one-way delay: 138.896 ms
Loss rate: 1.19%
-- Flow 3:
Average throughput: 6.33 Mbit/s
95th percentile per-packet one-way delay: 127.049 ms
Loss rate: 2.69%

Run 3: Report of TCP Cubic — Data Link

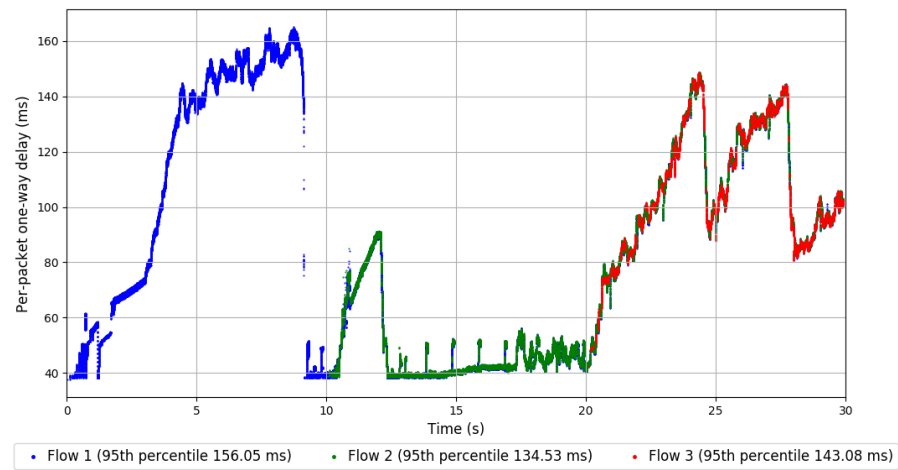
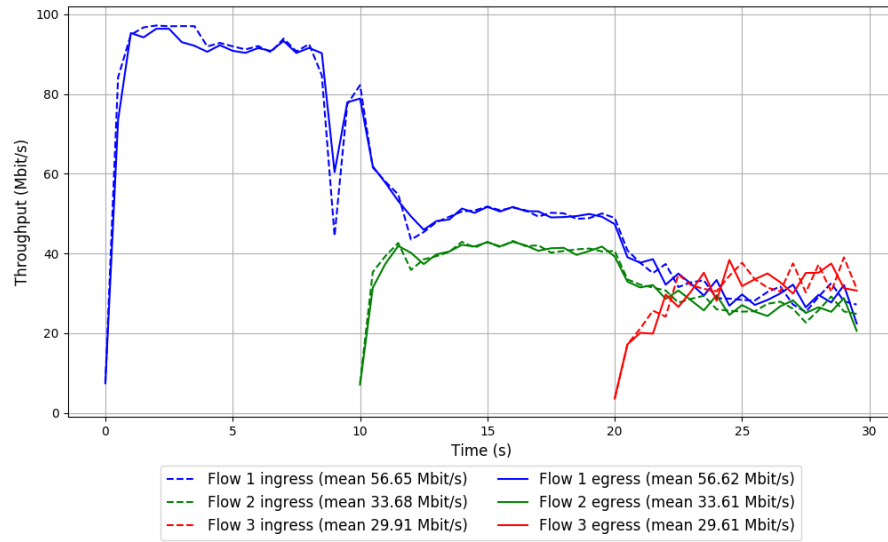


Run 4: Statistics of TCP Cubic

Start at: 2017-09-18 20:35:28
End at: 2017-09-18 20:35:58
Local clock offset: -6.126 ms
Remote clock offset: -1.147 ms

Below is generated by plot.py at 2017-09-19 00:12:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.70 Mbit/s
95th percentile per-packet one-way delay: 153.852 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 56.62 Mbit/s
95th percentile per-packet one-way delay: 156.053 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 33.61 Mbit/s
95th percentile per-packet one-way delay: 134.526 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 29.61 Mbit/s
95th percentile per-packet one-way delay: 143.083 ms
Loss rate: 1.89%

Run 4: Report of TCP Cubic — Data Link

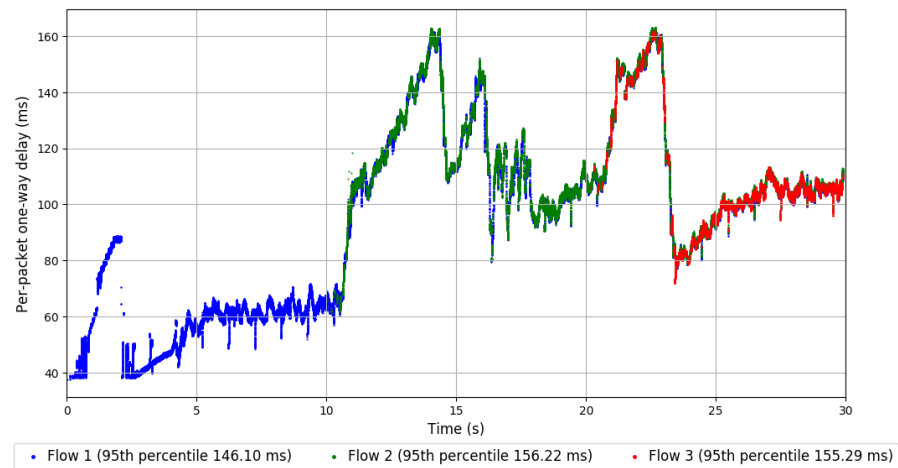
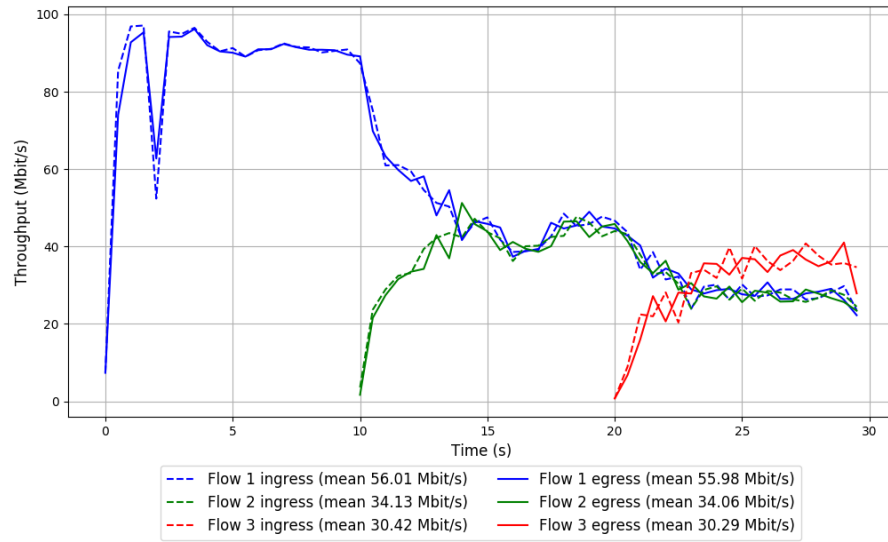


Run 5: Statistics of TCP Cubic

Start at: 2017-09-18 20:48:02
End at: 2017-09-18 20:48:32
Local clock offset: -4.645 ms
Remote clock offset: -1.183 ms

Below is generated by plot.py at 2017-09-19 00:12:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.50 Mbit/s
95th percentile per-packet one-way delay: 149.728 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 55.98 Mbit/s
95th percentile per-packet one-way delay: 146.097 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 34.06 Mbit/s
95th percentile per-packet one-way delay: 156.224 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 30.29 Mbit/s
95th percentile per-packet one-way delay: 155.295 ms
Loss rate: 2.00%

Run 5: Report of TCP Cubic — Data Link

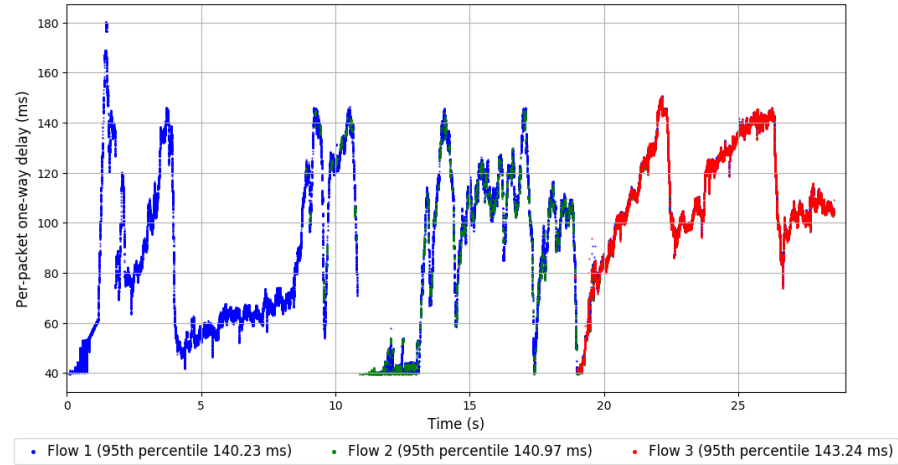
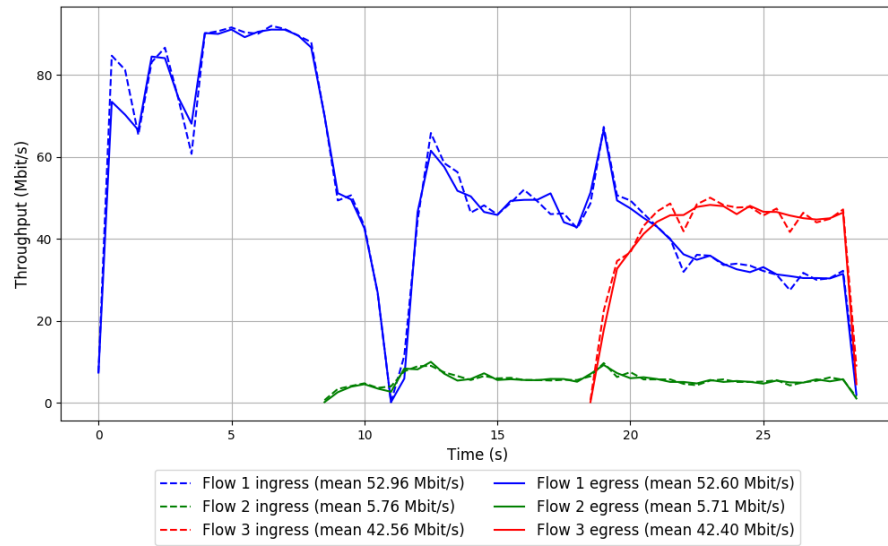


Run 6: Statistics of TCP Cubic

Start at: 2017-09-18 21:00:37
End at: 2017-09-18 21:01:07
Local clock offset: -4.468 ms
Remote clock offset: -1.281 ms

Below is generated by plot.py at 2017-09-19 00:12:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 71.06 Mbit/s
95th percentile per-packet one-way delay: 141.530 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 52.60 Mbit/s
95th percentile per-packet one-way delay: 140.230 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 5.71 Mbit/s
95th percentile per-packet one-way delay: 140.968 ms
Loss rate: 1.71%
-- Flow 3:
Average throughput: 42.40 Mbit/s
95th percentile per-packet one-way delay: 143.241 ms
Loss rate: 1.85%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-09-18 21:13:05

End at: 2017-09-18 21:13:35

Local clock offset: -4.91 ms

Remote clock offset: -1.26 ms

Below is generated by plot.py at 2017-09-19 00:13:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.10 Mbit/s

95th percentile per-packet one-way delay: 138.944 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 44.41 Mbit/s

95th percentile per-packet one-way delay: 134.296 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 46.98 Mbit/s

95th percentile per-packet one-way delay: 138.850 ms

Loss rate: 0.84%

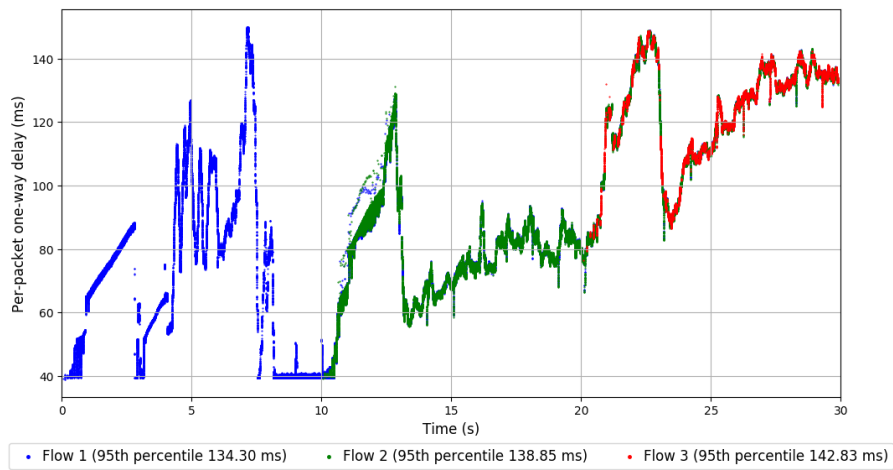
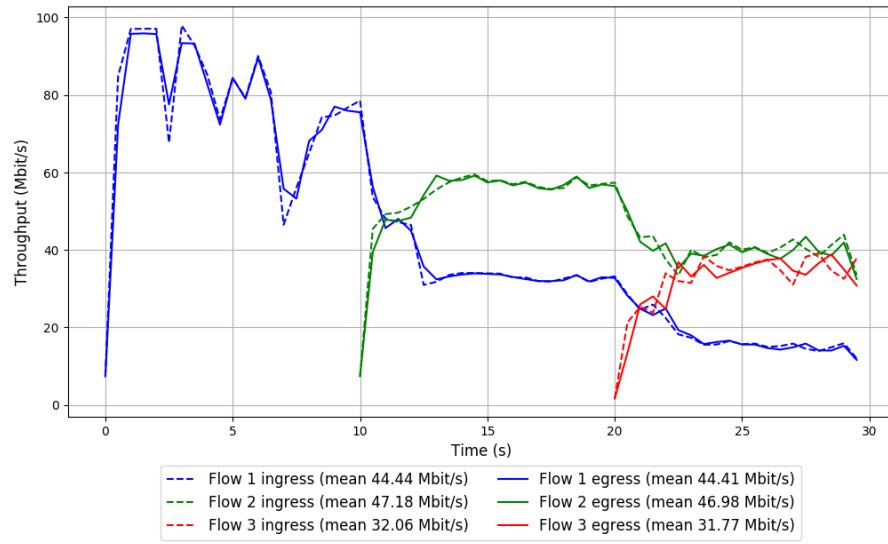
-- Flow 3:

Average throughput: 31.77 Mbit/s

95th percentile per-packet one-way delay: 142.826 ms

Loss rate: 2.12%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-09-18 21:25:38

End at: 2017-09-18 21:26:08

Local clock offset: -3.799 ms

Remote clock offset: -1.2 ms

Below is generated by plot.py at 2017-09-19 00:13:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.01 Mbit/s

95th percentile per-packet one-way delay: 146.964 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 61.29 Mbit/s

95th percentile per-packet one-way delay: 144.272 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 20.09 Mbit/s

95th percentile per-packet one-way delay: 148.374 ms

Loss rate: 0.72%

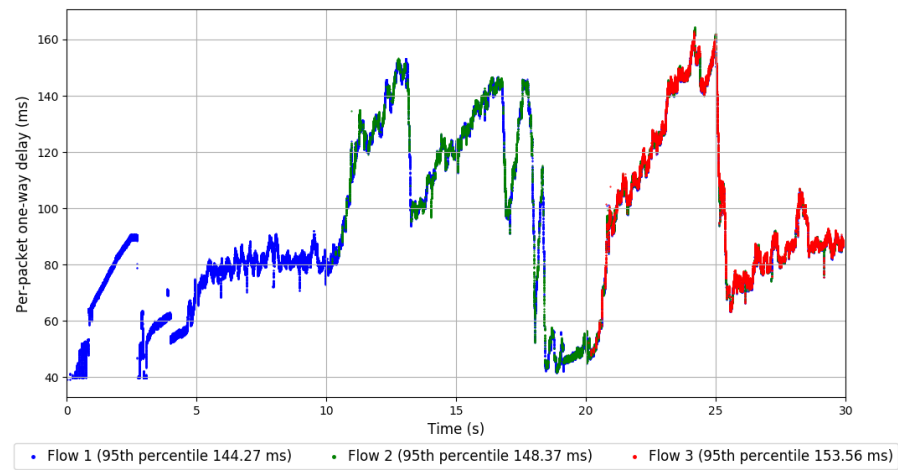
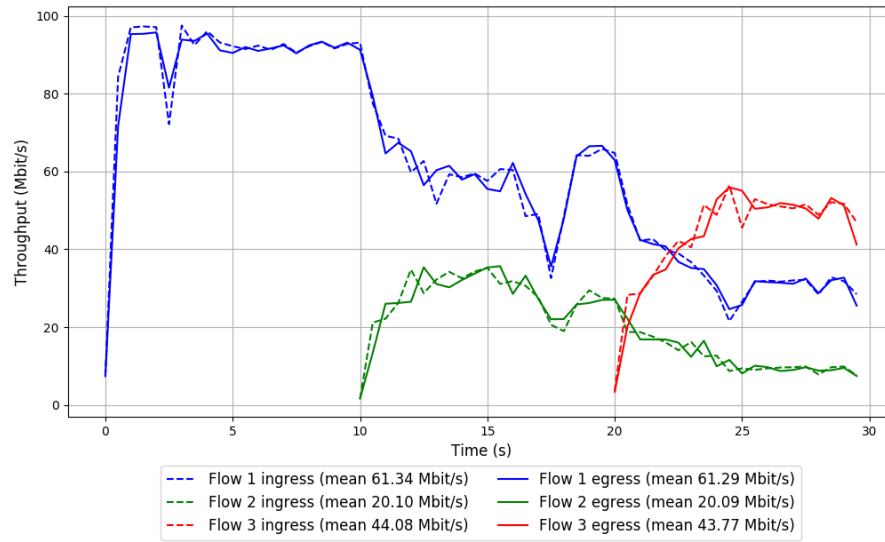
-- Flow 3:

Average throughput: 43.77 Mbit/s

95th percentile per-packet one-way delay: 153.557 ms

Loss rate: 1.70%

Run 8: Report of TCP Cubic — Data Link

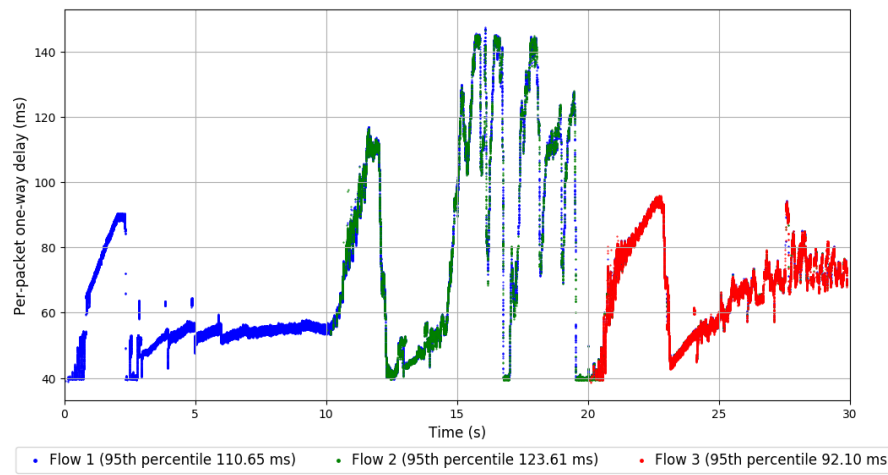
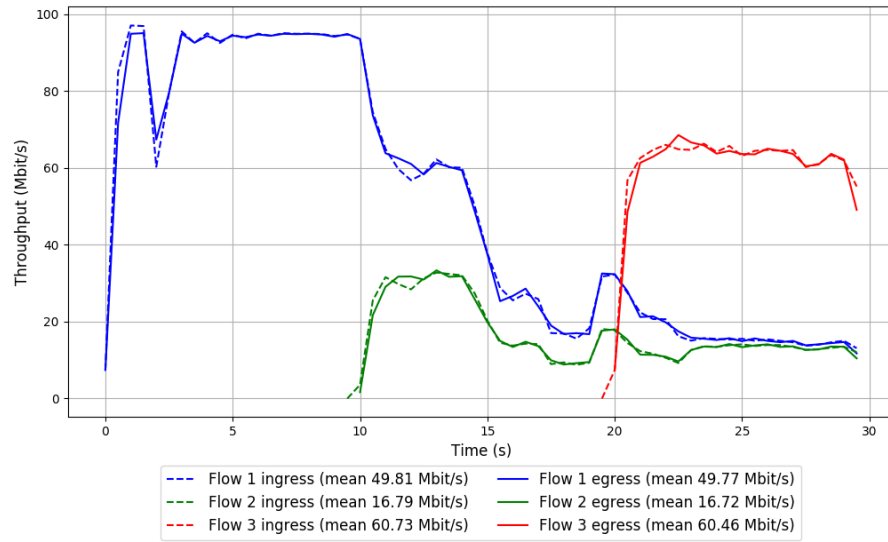


Run 9: Statistics of TCP Cubic

Start at: 2017-09-18 21:38:10
End at: 2017-09-18 21:38:40
Local clock offset: -5.629 ms
Remote clock offset: -1.223 ms

Below is generated by plot.py at 2017-09-19 00:13:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.83 Mbit/s
95th percentile per-packet one-way delay: 110.285 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 49.77 Mbit/s
95th percentile per-packet one-way delay: 110.654 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 16.72 Mbit/s
95th percentile per-packet one-way delay: 123.613 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 60.46 Mbit/s
95th percentile per-packet one-way delay: 92.099 ms
Loss rate: 1.29%

Run 9: Report of TCP Cubic — Data Link

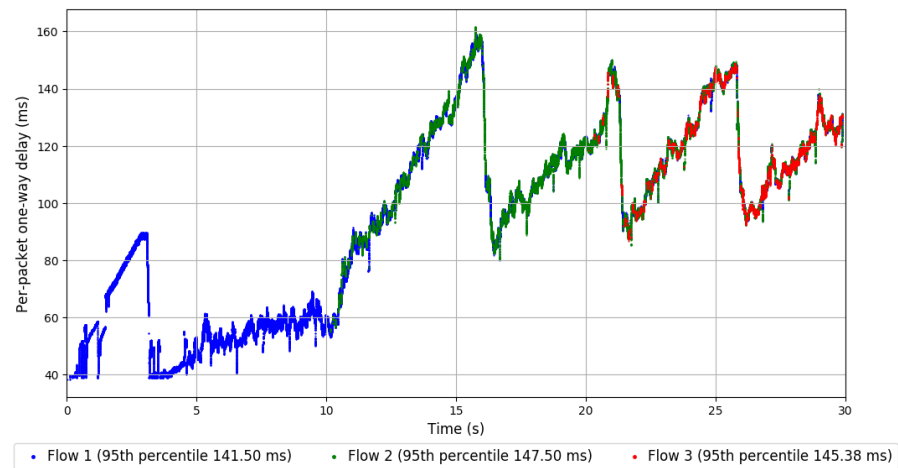
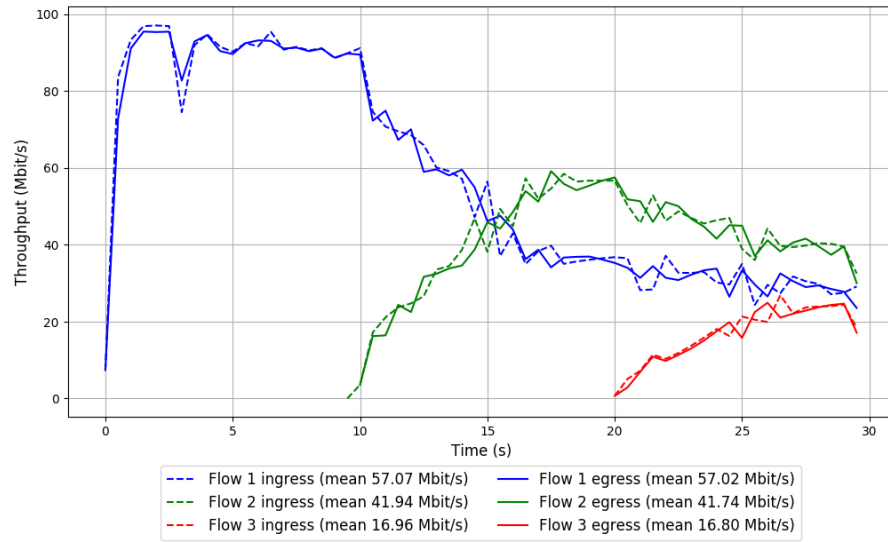


Run 10: Statistics of TCP Cubic

Start at: 2017-09-18 21:50:45
End at: 2017-09-18 21:51:15
Local clock offset: -8.253 ms
Remote clock offset: -1.028 ms

Below is generated by plot.py at 2017-09-19 00:14:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.26 Mbit/s
95th percentile per-packet one-way delay: 144.705 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 57.02 Mbit/s
95th percentile per-packet one-way delay: 141.498 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 41.74 Mbit/s
95th percentile per-packet one-way delay: 147.499 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 16.80 Mbit/s
95th percentile per-packet one-way delay: 145.383 ms
Loss rate: 2.59%

Run 10: Report of TCP Cubic — Data Link

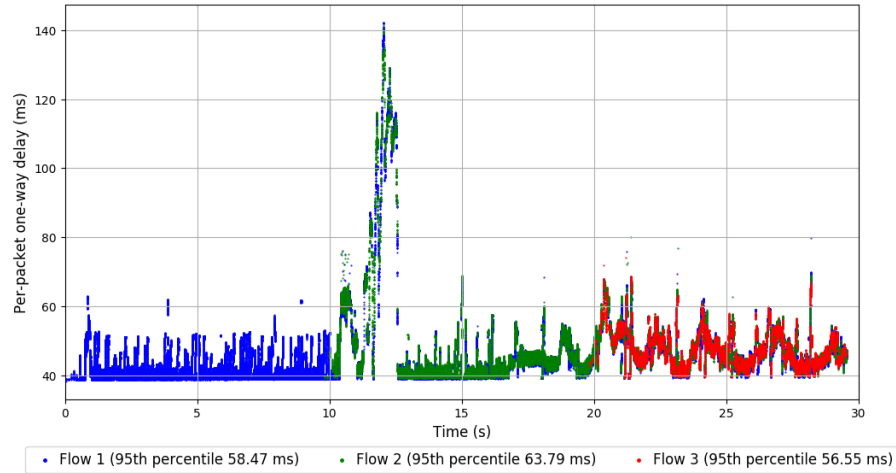
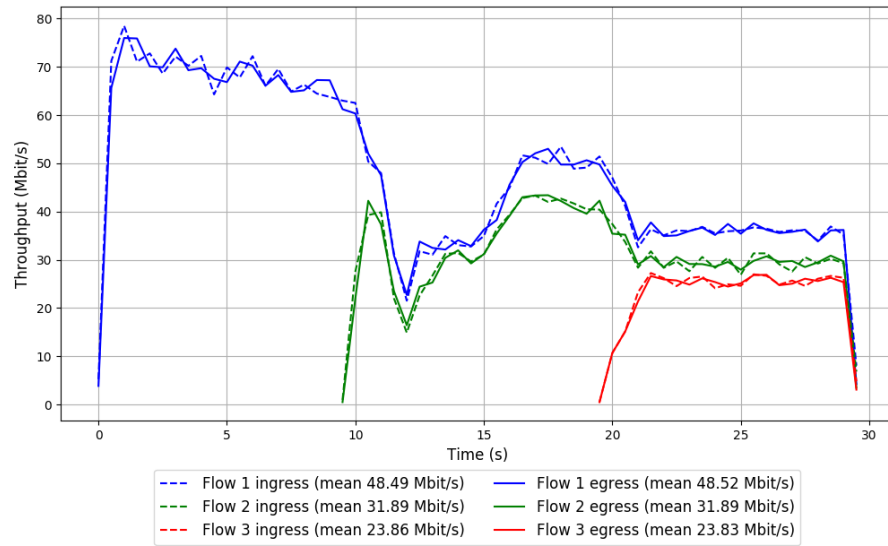


```
Run 1: Statistics of Indigo

Start at: 2017-09-18 19:56:08
End at: 2017-09-18 19:56:38
Local clock offset: -13.692 ms
Remote clock offset: -1.24 ms

# Below is generated by plot.py at 2017-09-19 00:14:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.65 Mbit/s
95th percentile per-packet one-way delay: 60.550 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 48.52 Mbit/s
95th percentile per-packet one-way delay: 58.466 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 31.89 Mbit/s
95th percentile per-packet one-way delay: 63.788 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 23.83 Mbit/s
95th percentile per-packet one-way delay: 56.550 ms
Loss rate: 1.03%
```


Run 1: Report of Indigo — Data Link

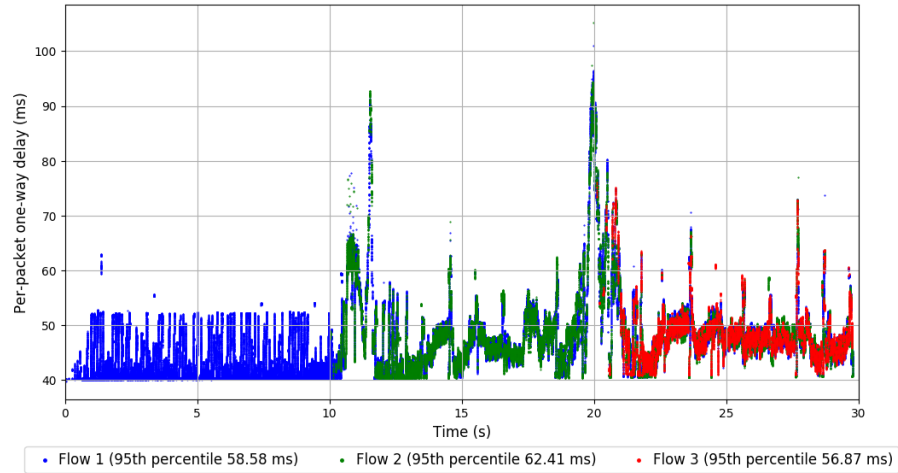
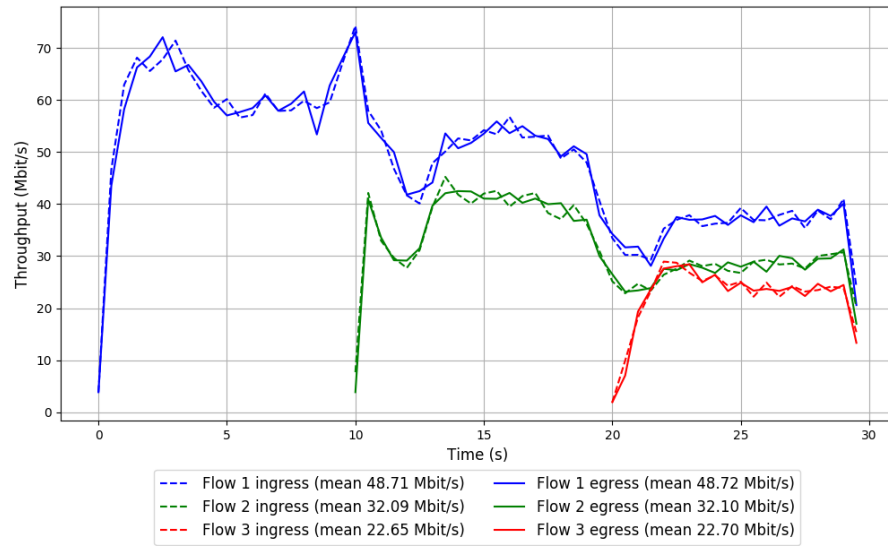


Run 2: Statistics of Indigo

Start at: 2017-09-18 20:08:57
End at: 2017-09-18 20:09:27
Local clock offset: -20.029 ms
Remote clock offset: -1.1 ms

Below is generated by plot.py at 2017-09-19 00:14:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.37 Mbit/s
95th percentile per-packet one-way delay: 60.041 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 48.72 Mbit/s
95th percentile per-packet one-way delay: 58.576 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 32.10 Mbit/s
95th percentile per-packet one-way delay: 62.415 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 22.70 Mbit/s
95th percentile per-packet one-way delay: 56.868 ms
Loss rate: 0.98%

Run 2: Report of Indigo — Data Link

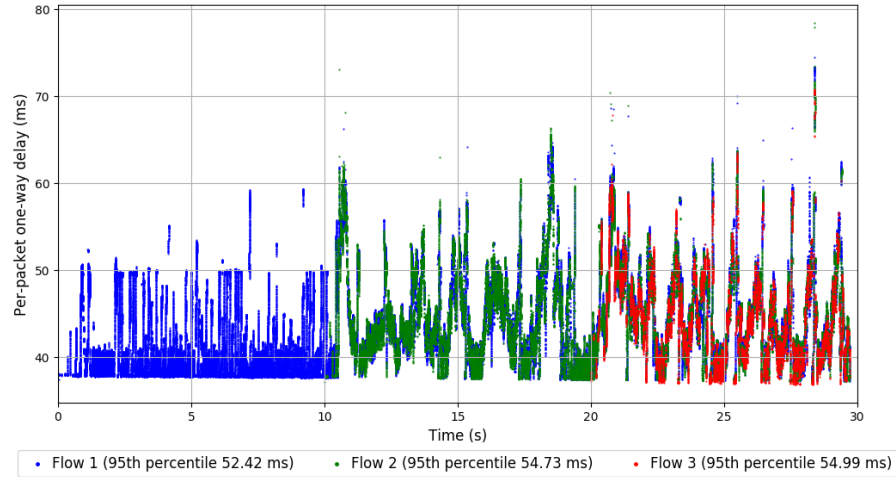
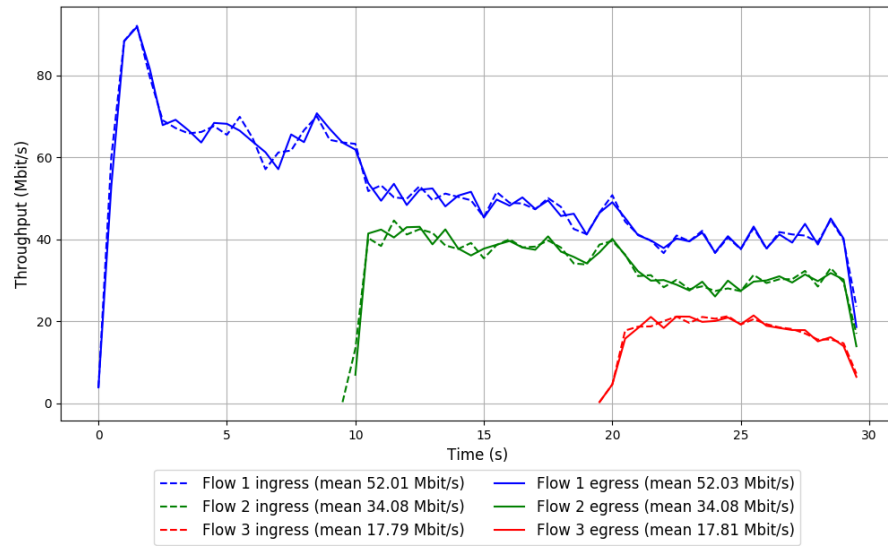


Run 3: Statistics of Indigo

Start at: 2017-09-18 20:21:40
End at: 2017-09-18 20:22:10
Local clock offset: -27.52 ms
Remote clock offset: -1.163 ms

Below is generated by plot.py at 2017-09-19 00:14:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.47 Mbit/s
95th percentile per-packet one-way delay: 53.344 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 52.03 Mbit/s
95th percentile per-packet one-way delay: 52.422 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 34.08 Mbit/s
95th percentile per-packet one-way delay: 54.725 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 17.81 Mbit/s
95th percentile per-packet one-way delay: 54.987 ms
Loss rate: 0.75%

Run 3: Report of Indigo — Data Link

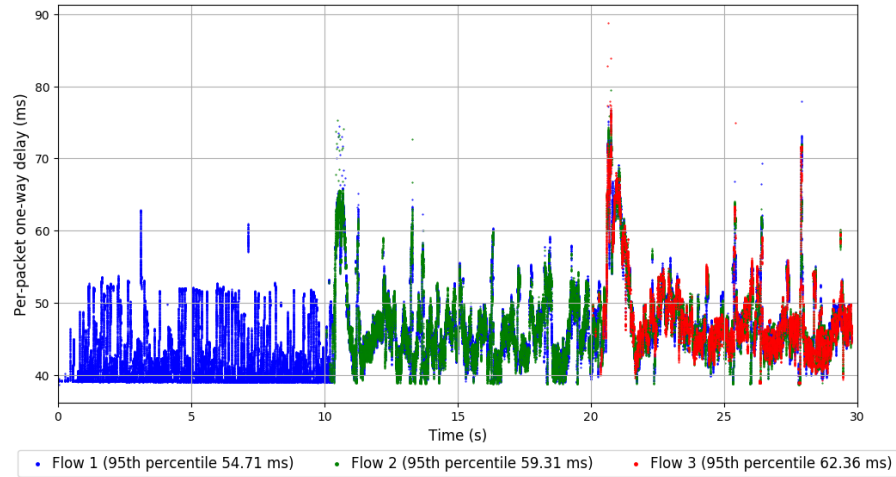
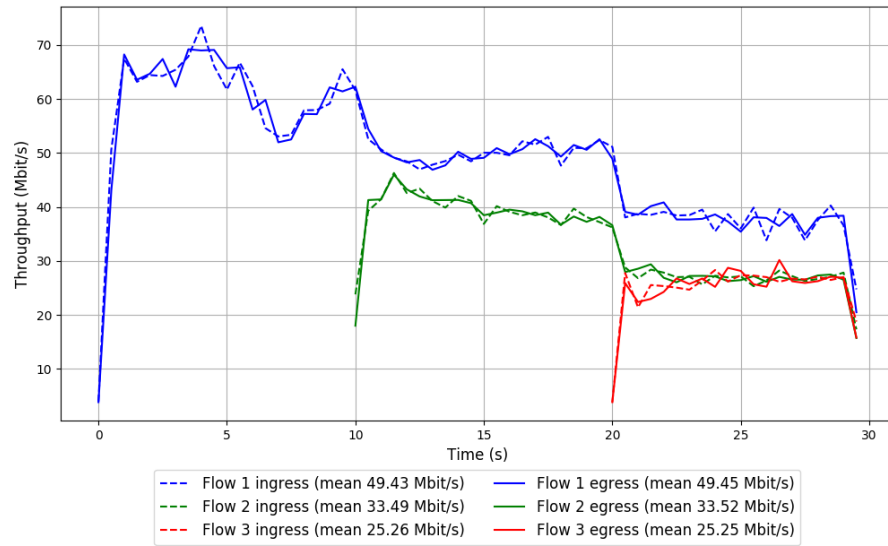


Run 4: Statistics of Indigo

Start at: 2017-09-18 20:34:12
End at: 2017-09-18 20:34:42
Local clock offset: -5.993 ms
Remote clock offset: -1.174 ms

Below is generated by plot.py at 2017-09-19 00:14:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.89 Mbit/s
95th percentile per-packet one-way delay: 57.310 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 49.45 Mbit/s
95th percentile per-packet one-way delay: 54.708 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 33.52 Mbit/s
95th percentile per-packet one-way delay: 59.307 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 25.25 Mbit/s
95th percentile per-packet one-way delay: 62.356 ms
Loss rate: 1.02%

Run 4: Report of Indigo — Data Link

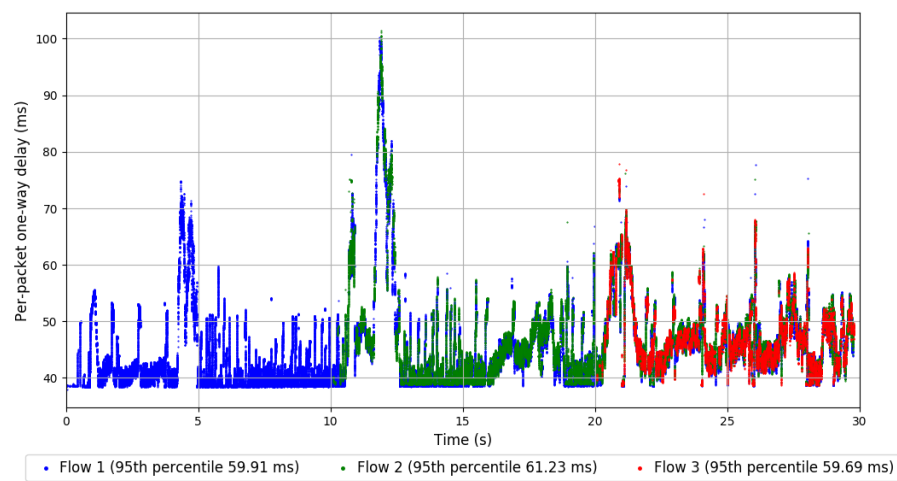
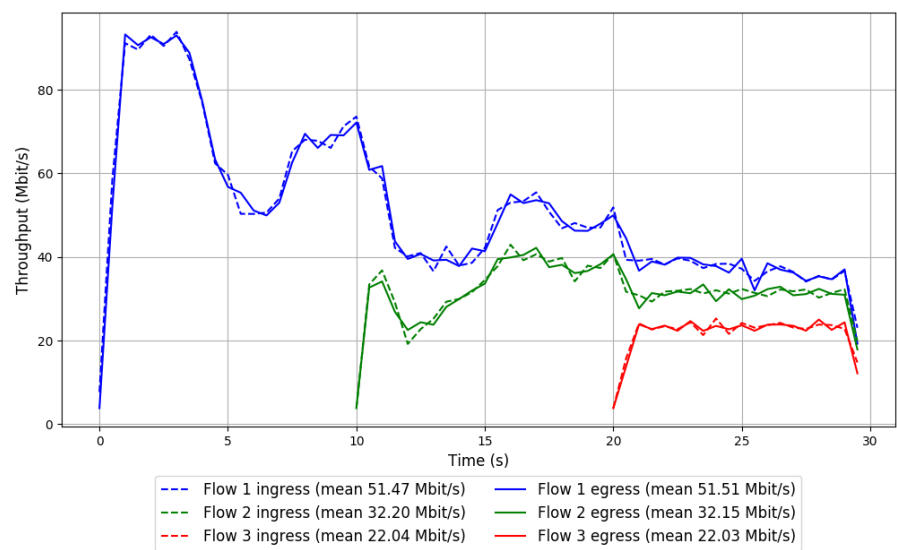


Run 5: Statistics of Indigo

Start at: 2017-09-18 20:46:46
End at: 2017-09-18 20:47:16
Local clock offset: -4.38 ms
Remote clock offset: -1.265 ms

Below is generated by plot.py at 2017-09-19 00:15:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.93 Mbit/s
95th percentile per-packet one-way delay: 60.287 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 51.51 Mbit/s
95th percentile per-packet one-way delay: 59.905 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 32.15 Mbit/s
95th percentile per-packet one-way delay: 61.231 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 22.03 Mbit/s
95th percentile per-packet one-way delay: 59.692 ms
Loss rate: 0.97%

Run 5: Report of Indigo — Data Link

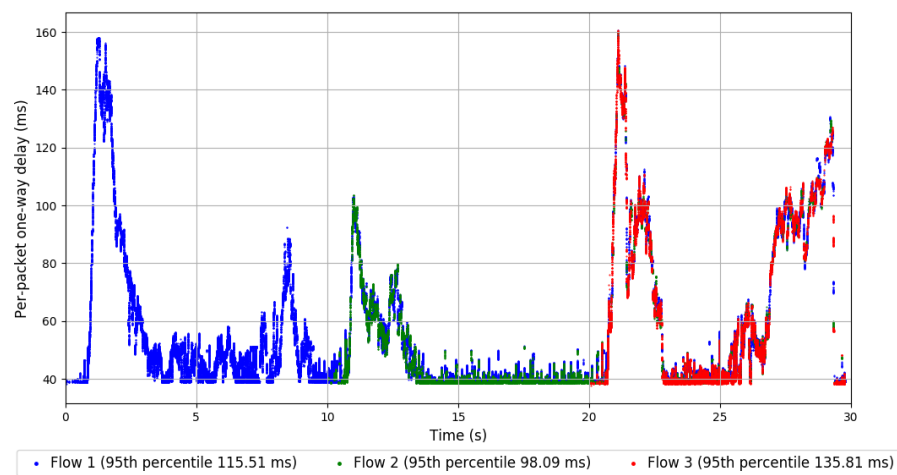
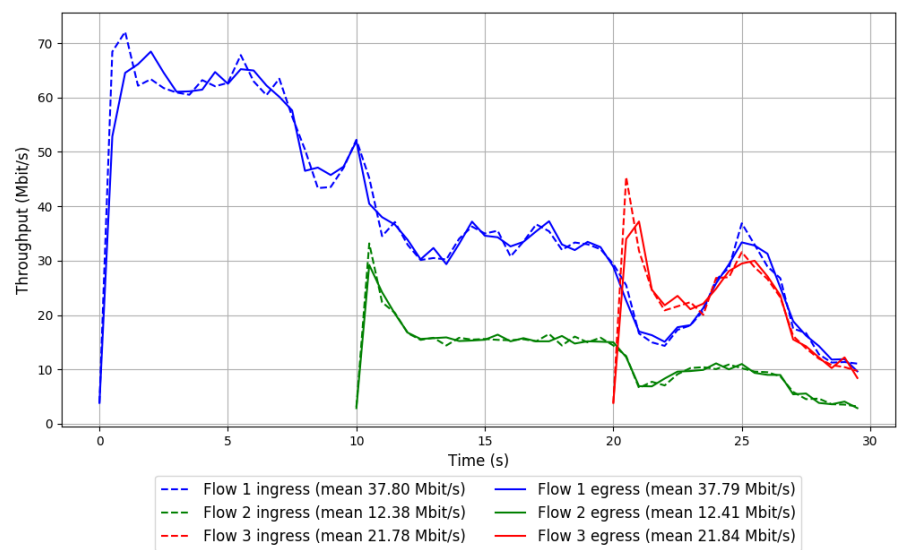


Run 6: Statistics of Indigo

Start at: 2017-09-18 20:59:23
End at: 2017-09-18 20:59:53
Local clock offset: -5.371 ms
Remote clock offset: -1.248 ms

Below is generated by plot.py at 2017-09-19 00:15:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 53.11 Mbit/s
95th percentile per-packet one-way delay: 114.620 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 37.79 Mbit/s
95th percentile per-packet one-way delay: 115.514 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 12.41 Mbit/s
95th percentile per-packet one-way delay: 98.087 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 21.84 Mbit/s
95th percentile per-packet one-way delay: 135.815 ms
Loss rate: 0.77%

Run 6: Report of Indigo — Data Link

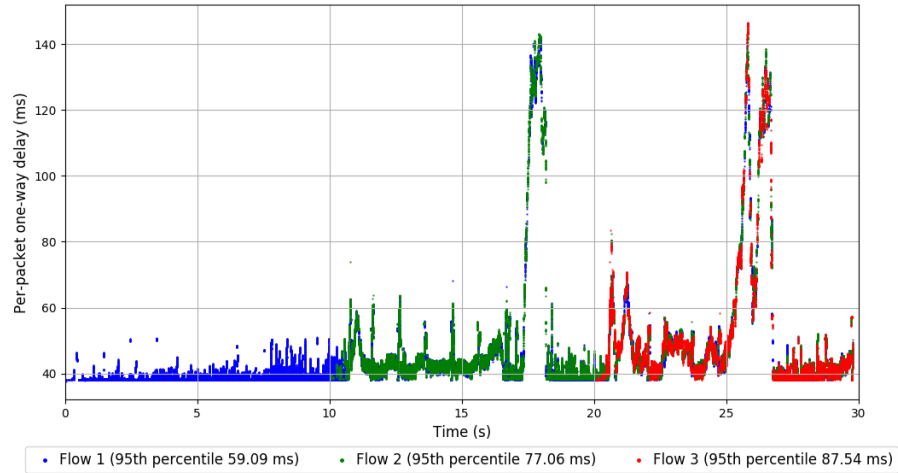
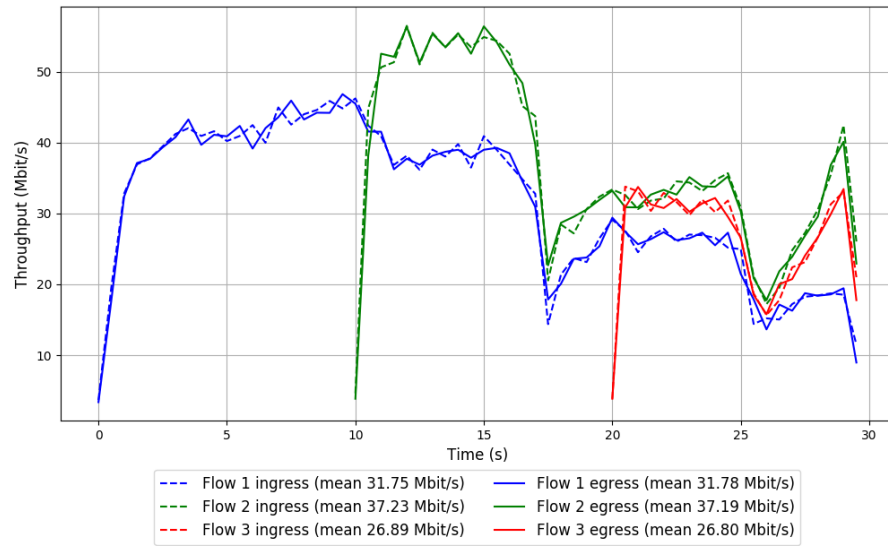


Run 7: Statistics of Indigo

Start at: 2017-09-18 21:11:50
End at: 2017-09-18 21:12:20
Local clock offset: -6.145 ms
Remote clock offset: -1.195 ms

Below is generated by plot.py at 2017-09-19 00:15:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.17 Mbit/s
95th percentile per-packet one-way delay: 69.073 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 31.78 Mbit/s
95th percentile per-packet one-way delay: 59.094 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 37.19 Mbit/s
95th percentile per-packet one-way delay: 77.057 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 26.80 Mbit/s
95th percentile per-packet one-way delay: 87.538 ms
Loss rate: 1.18%

Run 7: Report of Indigo — Data Link

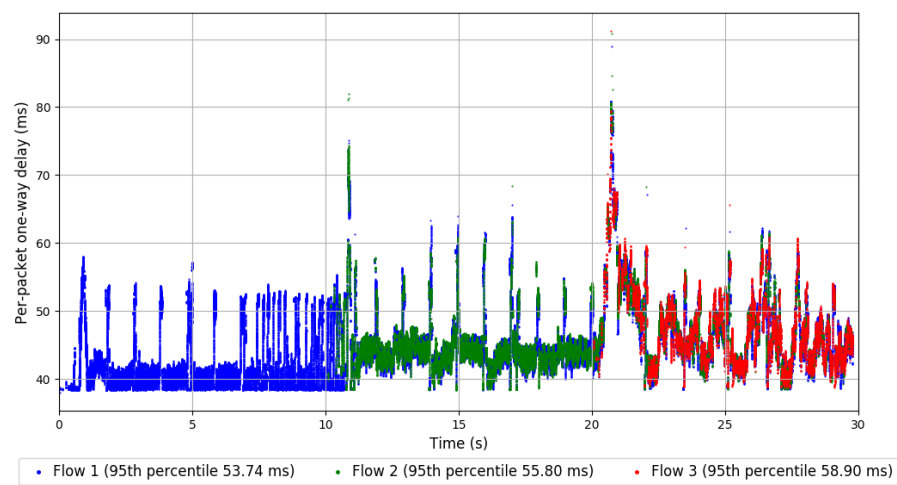
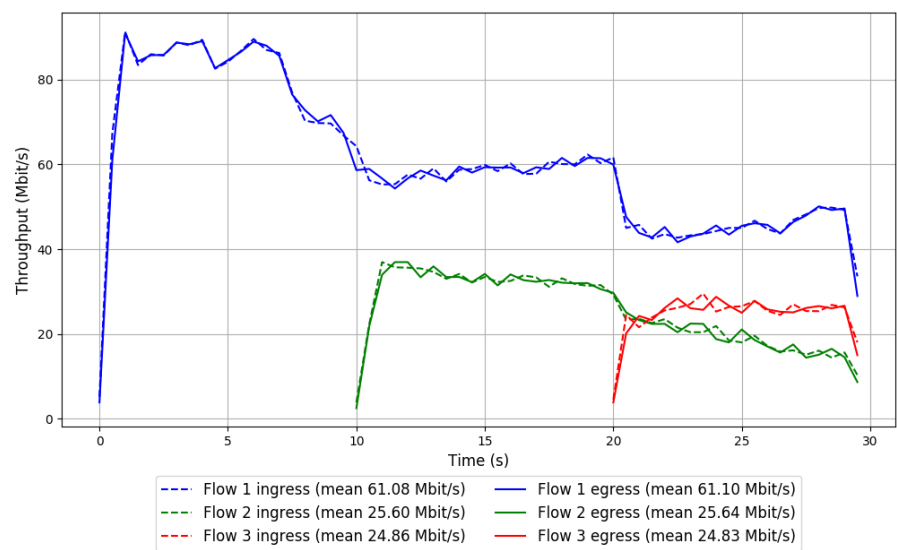


Run 8: Statistics of Indigo

Start at: 2017-09-18 21:24:21
End at: 2017-09-18 21:24:51
Local clock offset: -4.924 ms
Remote clock offset: -1.211 ms

Below is generated by plot.py at 2017-09-19 00:15:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.15 Mbit/s
95th percentile per-packet one-way delay: 55.007 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 61.10 Mbit/s
95th percentile per-packet one-way delay: 53.740 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 25.64 Mbit/s
95th percentile per-packet one-way delay: 55.796 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 24.83 Mbit/s
95th percentile per-packet one-way delay: 58.895 ms
Loss rate: 1.03%

Run 8: Report of Indigo — Data Link

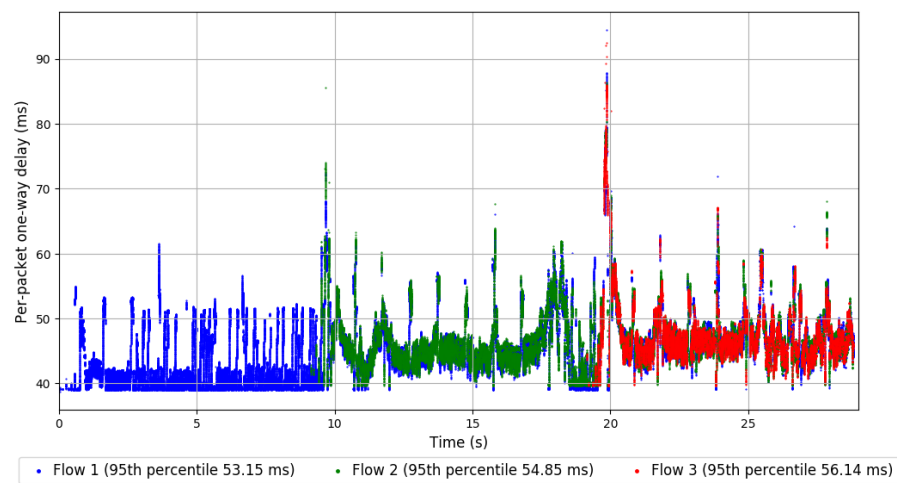
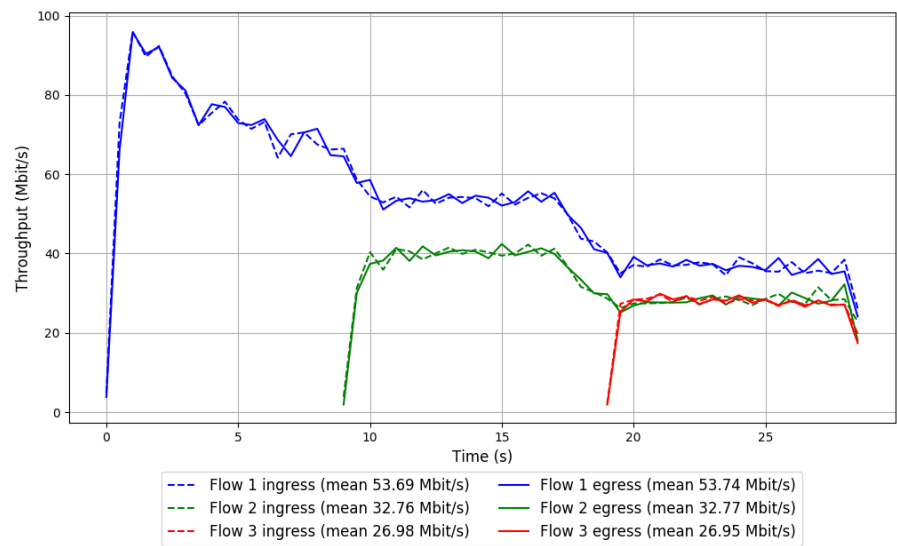


Run 9: Statistics of Indigo

Start at: 2017-09-18 21:36:54
End at: 2017-09-18 21:37:24
Local clock offset: -5.634 ms
Remote clock offset: -1.171 ms

Below is generated by plot.py at 2017-09-19 00:15:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.18 Mbit/s
95th percentile per-packet one-way delay: 54.059 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 53.74 Mbit/s
95th percentile per-packet one-way delay: 53.150 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 32.77 Mbit/s
95th percentile per-packet one-way delay: 54.853 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 26.95 Mbit/s
95th percentile per-packet one-way delay: 56.144 ms
Loss rate: 0.96%

Run 9: Report of Indigo — Data Link

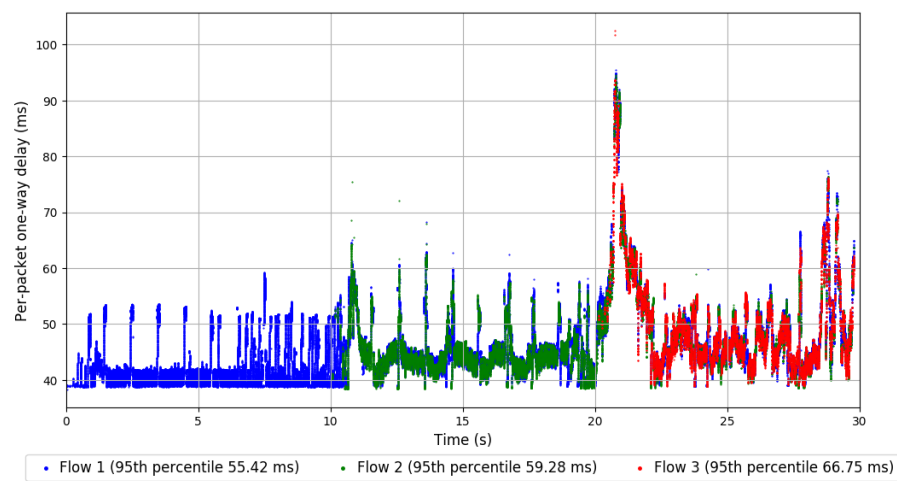
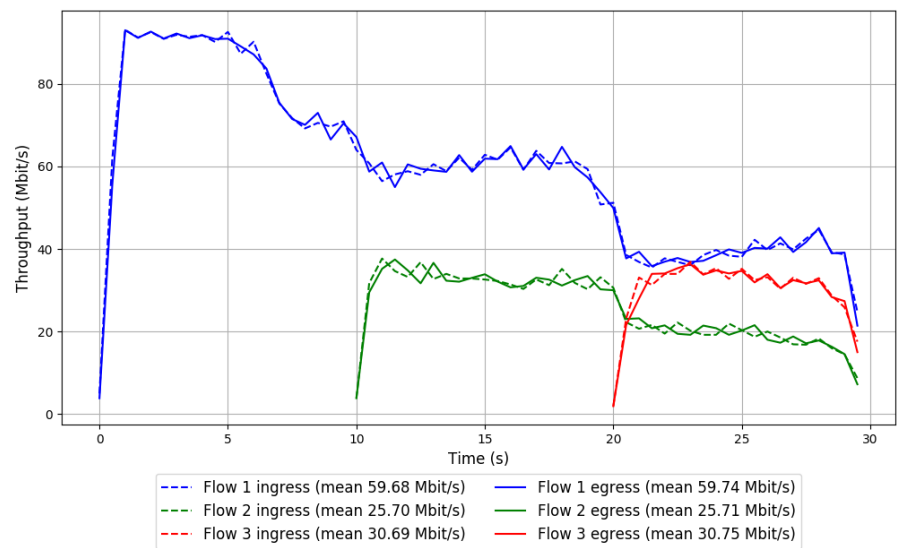


Run 10: Statistics of Indigo

Start at: 2017-09-18 21:49:28
End at: 2017-09-18 21:49:58
Local clock offset: -8.106 ms
Remote clock offset: -1.107 ms

Below is generated by plot.py at 2017-09-19 00:15:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.73 Mbit/s
95th percentile per-packet one-way delay: 58.222 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 59.74 Mbit/s
95th percentile per-packet one-way delay: 55.420 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 25.71 Mbit/s
95th percentile per-packet one-way delay: 59.282 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 30.75 Mbit/s
95th percentile per-packet one-way delay: 66.754 ms
Loss rate: 0.82%

Run 10: Report of Indigo — Data Link

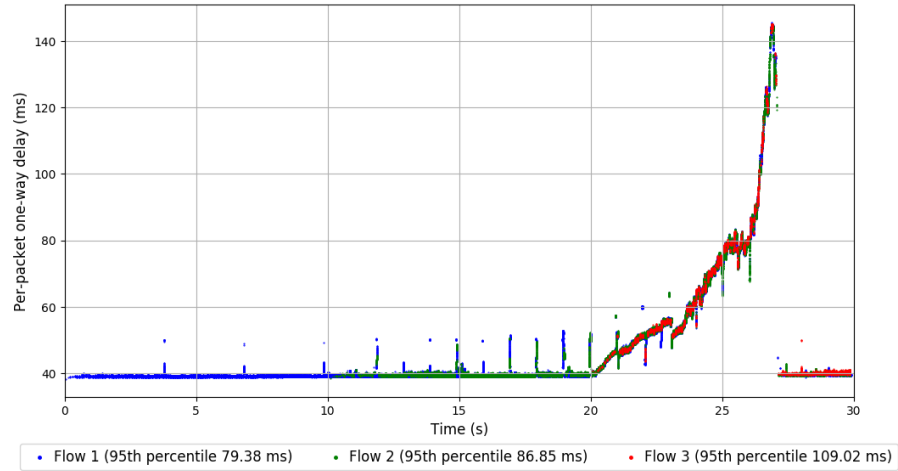
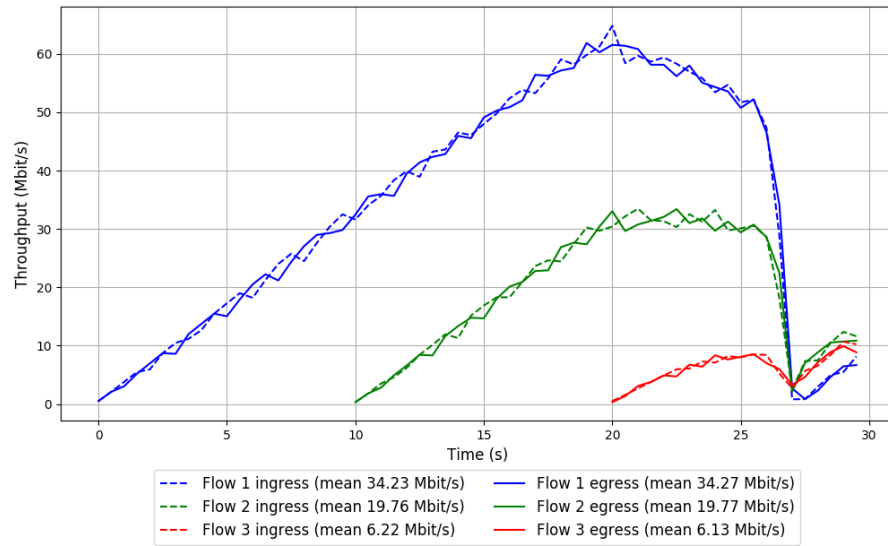


Run 1: Statistics of LEDBAT

Start at: 2017-09-18 20:04:00
End at: 2017-09-18 20:04:30
Local clock offset: -15.354 ms
Remote clock offset: -1.209 ms

Below is generated by plot.py at 2017-09-19 00:15:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.34 Mbit/s
95th percentile per-packet one-way delay: 81.589 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 34.27 Mbit/s
95th percentile per-packet one-way delay: 79.384 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 19.77 Mbit/s
95th percentile per-packet one-way delay: 86.853 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 6.13 Mbit/s
95th percentile per-packet one-way delay: 109.019 ms
Loss rate: 2.35%

Run 1: Report of LEDBAT — Data Link

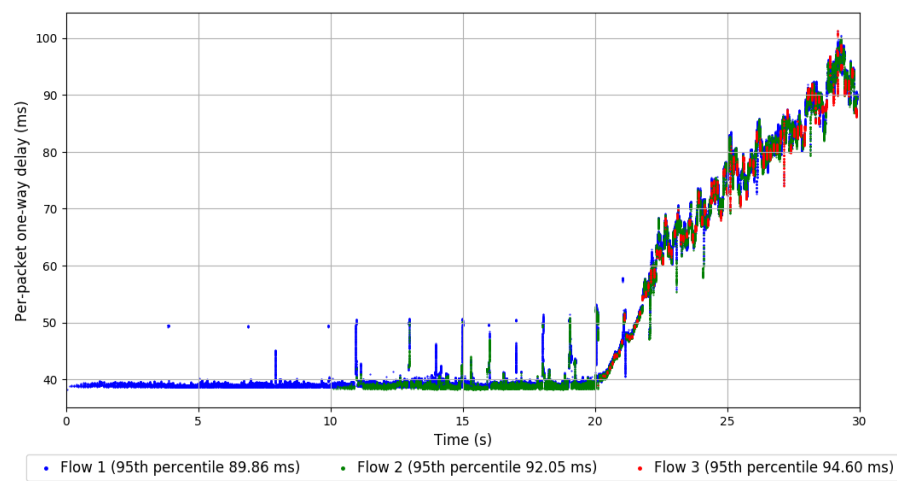
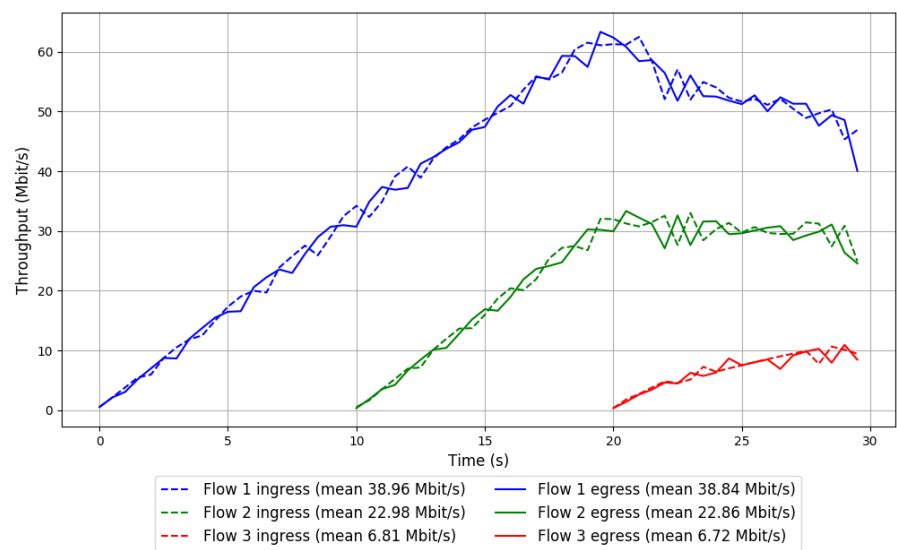


Run 2: Statistics of LEDBAT

Start at: 2017-09-18 20:16:43
End at: 2017-09-18 20:17:13
Local clock offset: -27.656 ms
Remote clock offset: -1.171 ms

Below is generated by plot.py at 2017-09-19 00:15:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 56.20 Mbit/s
95th percentile per-packet one-way delay: 90.942 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 38.84 Mbit/s
95th percentile per-packet one-way delay: 89.864 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 22.86 Mbit/s
95th percentile per-packet one-way delay: 92.054 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 6.72 Mbit/s
95th percentile per-packet one-way delay: 94.597 ms
Loss rate: 2.13%

Run 2: Report of LEDBAT — Data Link

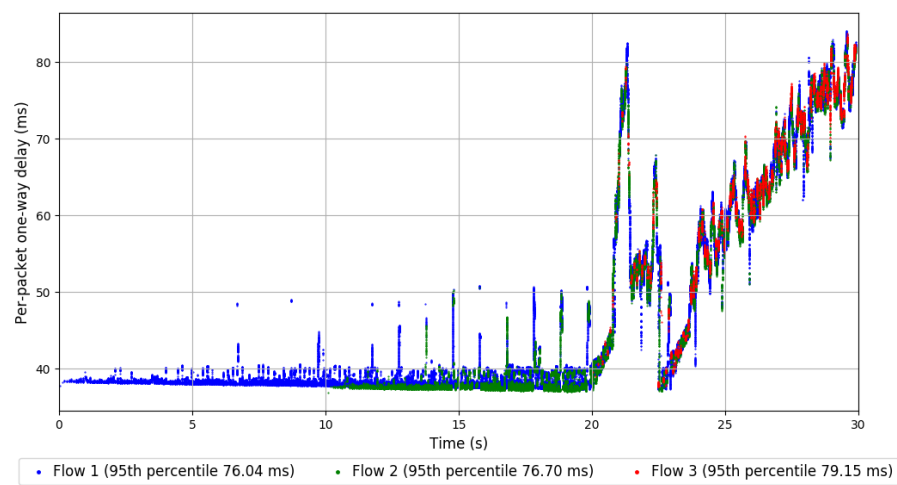
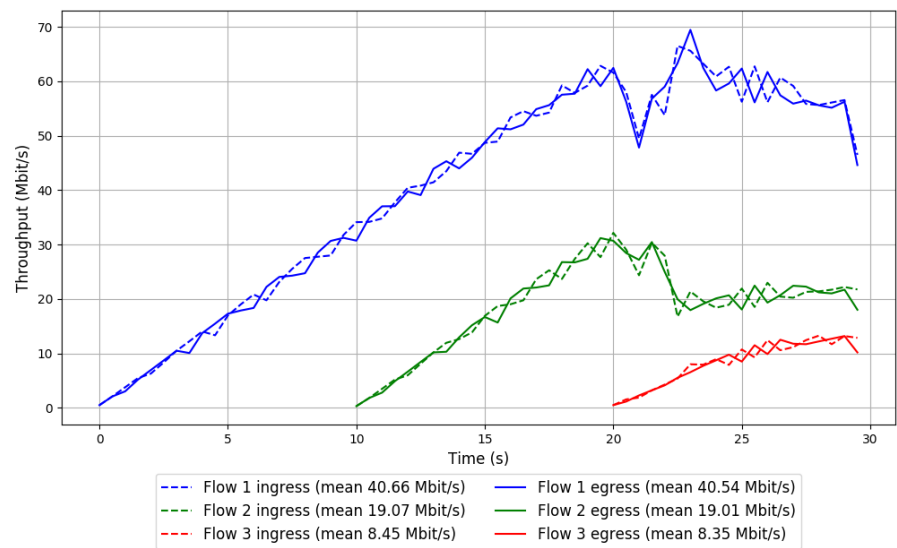


Run 3: Statistics of LEDBAT

Start at: 2017-09-18 20:29:16
End at: 2017-09-18 20:29:46
Local clock offset: -16.396 ms
Remote clock offset: -1.127 ms

Below is generated by plot.py at 2017-09-19 00:15:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 55.88 Mbit/s
95th percentile per-packet one-way delay: 76.442 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 40.54 Mbit/s
95th percentile per-packet one-way delay: 76.039 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 19.01 Mbit/s
95th percentile per-packet one-way delay: 76.705 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 8.35 Mbit/s
95th percentile per-packet one-way delay: 79.149 ms
Loss rate: 2.07%

Run 3: Report of LEDBAT — Data Link

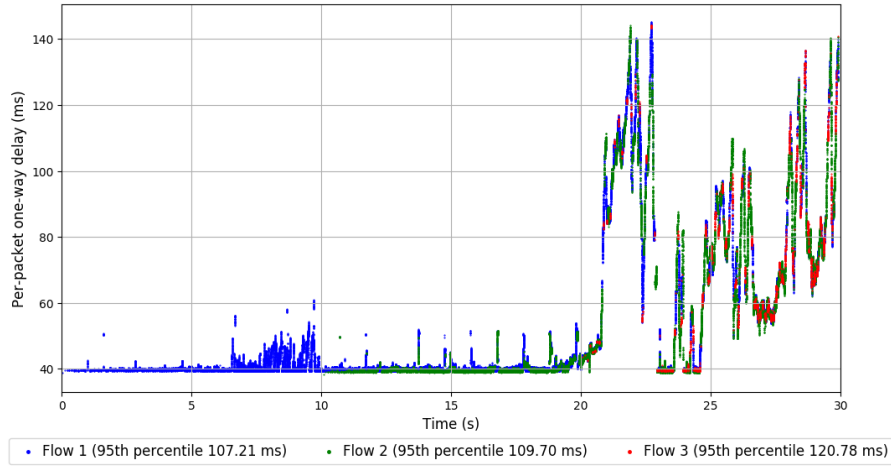
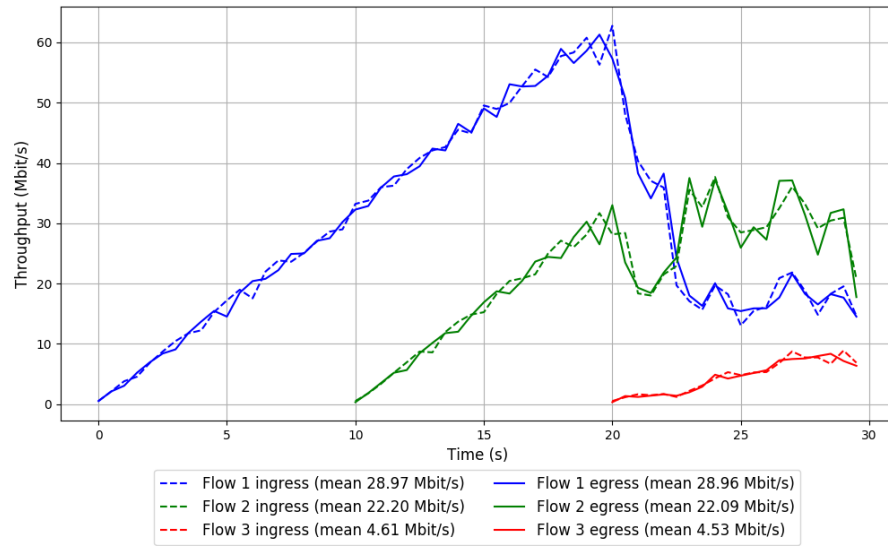


Run 4: Statistics of LEDBAT

Start at: 2017-09-18 20:41:50
End at: 2017-09-18 20:42:20
Local clock offset: -2.828 ms
Remote clock offset: -1.176 ms

Below is generated by plot.py at 2017-09-19 00:15:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 45.11 Mbit/s
95th percentile per-packet one-way delay: 109.379 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 28.96 Mbit/s
95th percentile per-packet one-way delay: 107.209 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 22.09 Mbit/s
95th percentile per-packet one-way delay: 109.702 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 4.53 Mbit/s
95th percentile per-packet one-way delay: 120.784 ms
Loss rate: 2.74%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

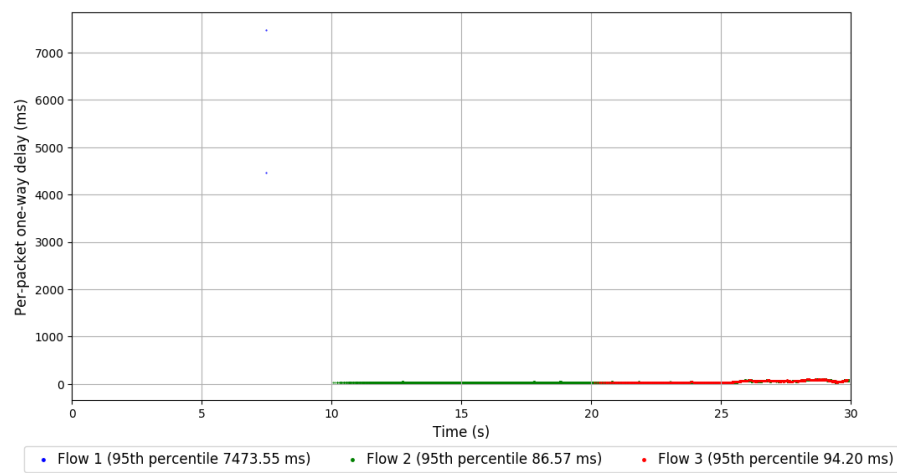
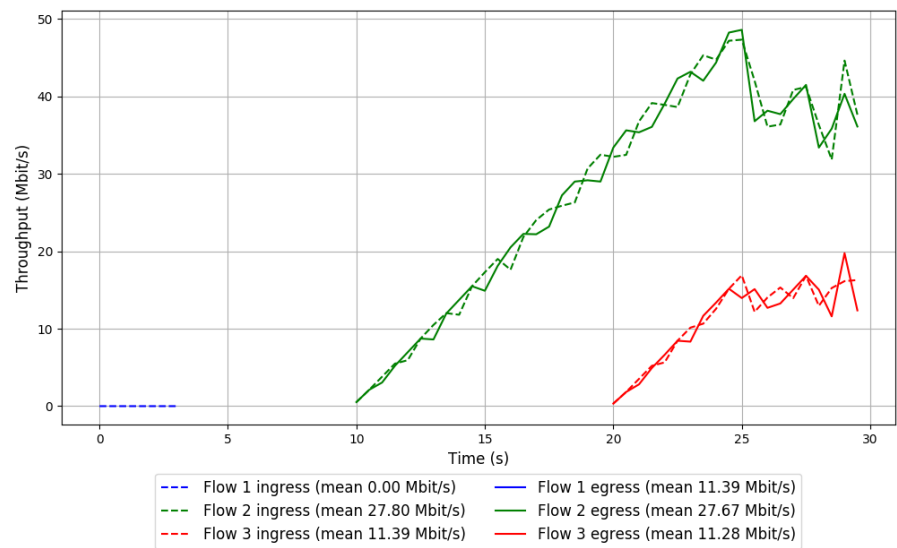
Start at: 2017-09-18 20:54:30

End at: 2017-09-18 20:55:00

Local clock offset: -5.538 ms

Remote clock offset: -1.24 ms

Run 5: Report of LEDBAT — Data Link

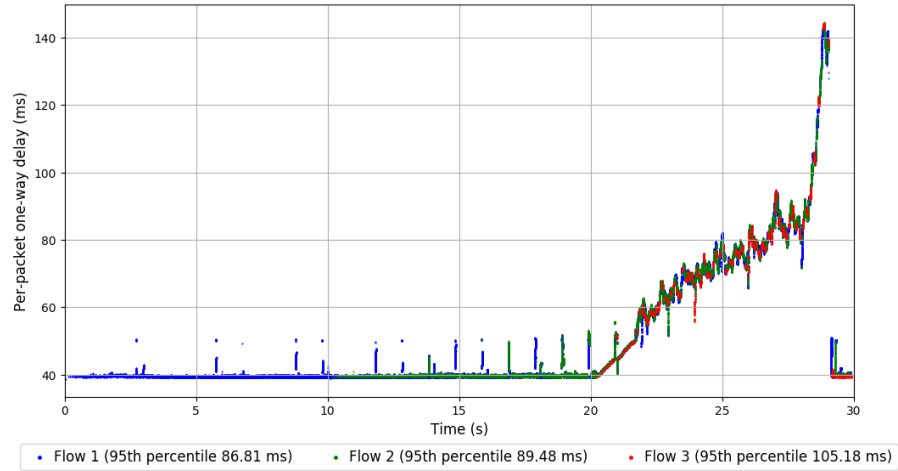
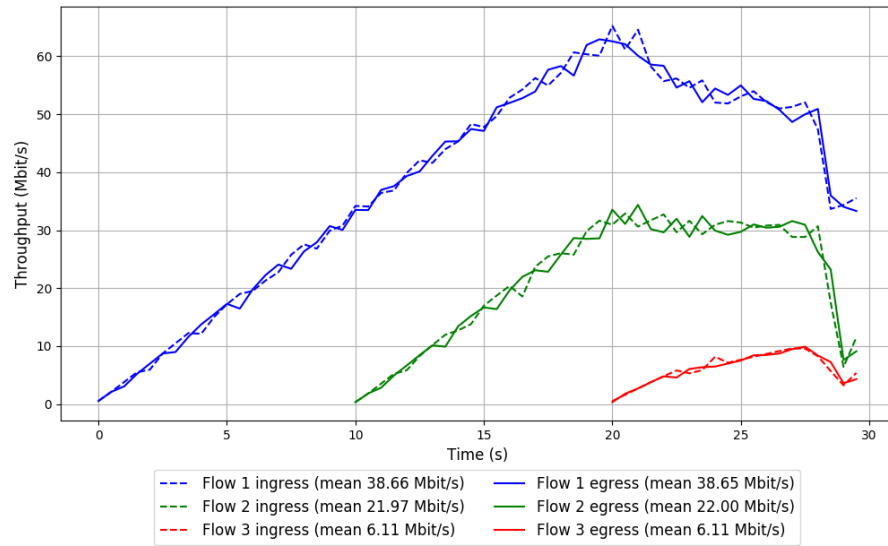


Run 6: Statistics of LEDBAT

Start at: 2017-09-18 21:06:54
End at: 2017-09-18 21:07:24
Local clock offset: -5.256 ms
Remote clock offset: -1.213 ms

Below is generated by plot.py at 2017-09-19 00:15:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 55.14 Mbit/s
95th percentile per-packet one-way delay: 88.168 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 38.65 Mbit/s
95th percentile per-packet one-way delay: 86.810 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 22.00 Mbit/s
95th percentile per-packet one-way delay: 89.484 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 6.11 Mbit/s
95th percentile per-packet one-way delay: 105.181 ms
Loss rate: 0.95%

Run 6: Report of LEDBAT — Data Link

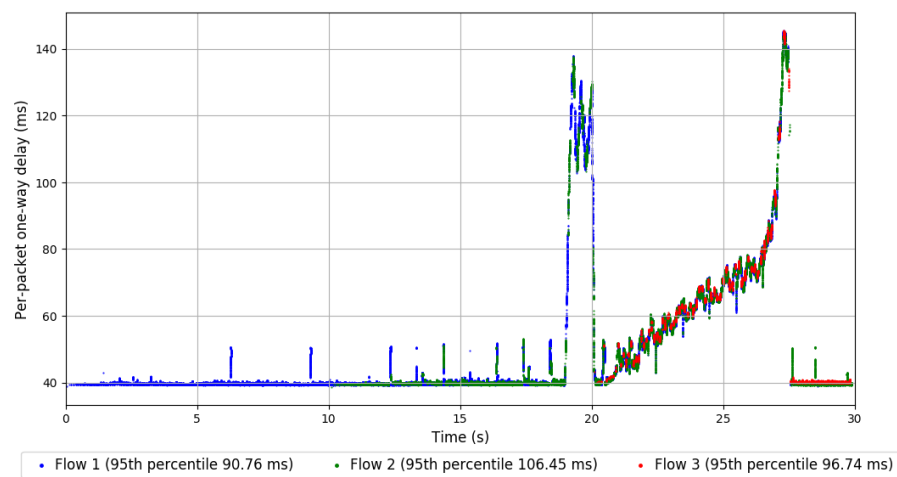
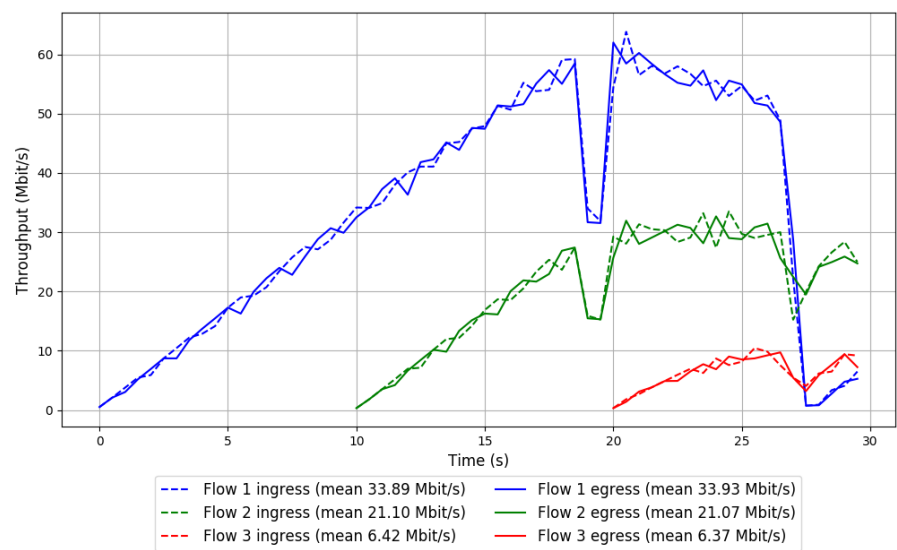


Run 7: Statistics of LEDBAT

Start at: 2017-09-18 21:19:26
End at: 2017-09-18 21:19:56
Local clock offset: -3.52 ms
Remote clock offset: -1.231 ms

Below is generated by plot.py at 2017-09-19 00:15:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.95 Mbit/s
95th percentile per-packet one-way delay: 94.861 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 33.93 Mbit/s
95th percentile per-packet one-way delay: 90.756 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 21.07 Mbit/s
95th percentile per-packet one-way delay: 106.452 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 6.37 Mbit/s
95th percentile per-packet one-way delay: 96.740 ms
Loss rate: 1.69%

Run 7: Report of LEDBAT — Data Link

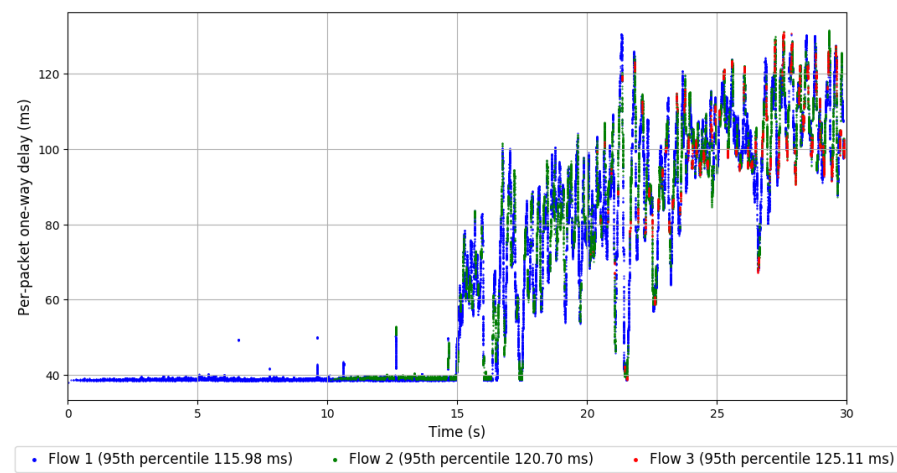
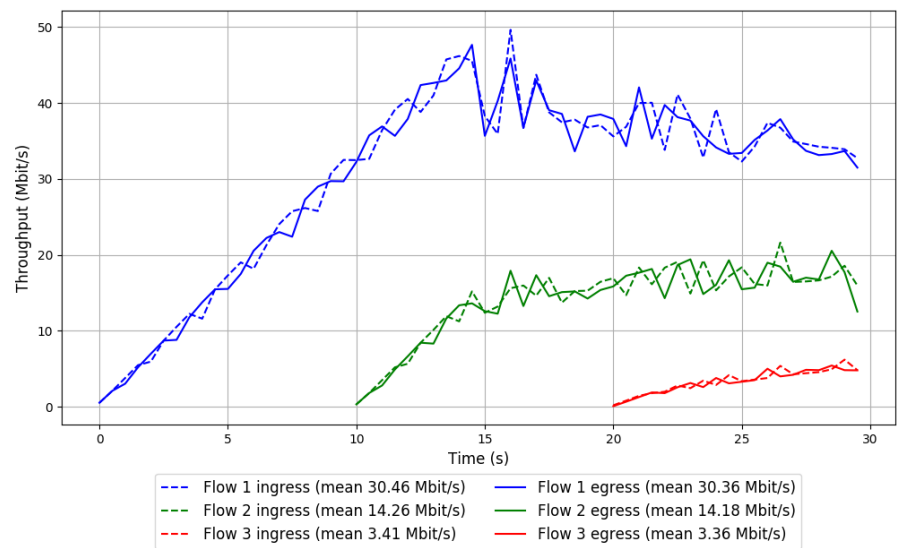


Run 8: Statistics of LEDBAT

Start at: 2017-09-18 21:31:59
End at: 2017-09-18 21:32:29
Local clock offset: -6.254 ms
Remote clock offset: -1.142 ms

Below is generated by plot.py at 2017-09-19 00:15:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 40.85 Mbit/s
95th percentile per-packet one-way delay: 118.690 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 30.36 Mbit/s
95th percentile per-packet one-way delay: 115.979 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 14.18 Mbit/s
95th percentile per-packet one-way delay: 120.703 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 3.36 Mbit/s
95th percentile per-packet one-way delay: 125.109 ms
Loss rate: 2.47%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-09-18 21:44:31

End at: 2017-09-18 21:45:01

Local clock offset: -7.247 ms

Remote clock offset: -1.09 ms

Below is generated by plot.py at 2017-09-19 00:16:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.22 Mbit/s

95th percentile per-packet one-way delay: 86.972 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 39.41 Mbit/s

95th percentile per-packet one-way delay: 85.163 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 23.29 Mbit/s

95th percentile per-packet one-way delay: 87.663 ms

Loss rate: 0.91%

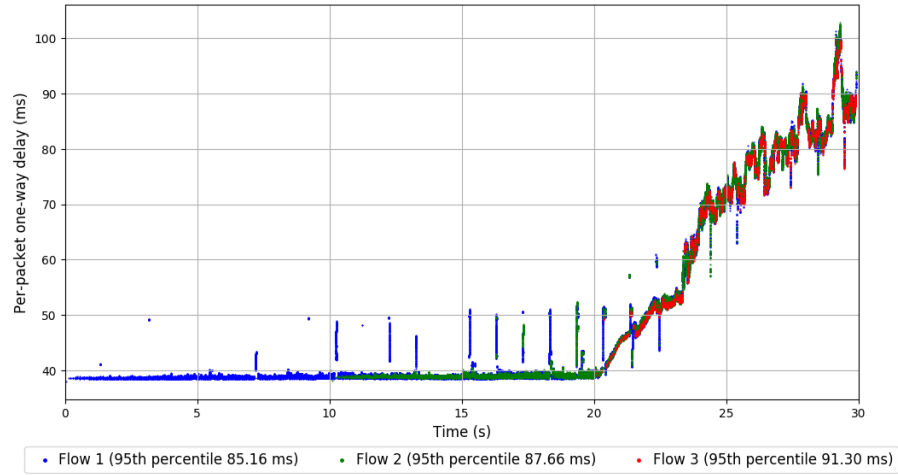
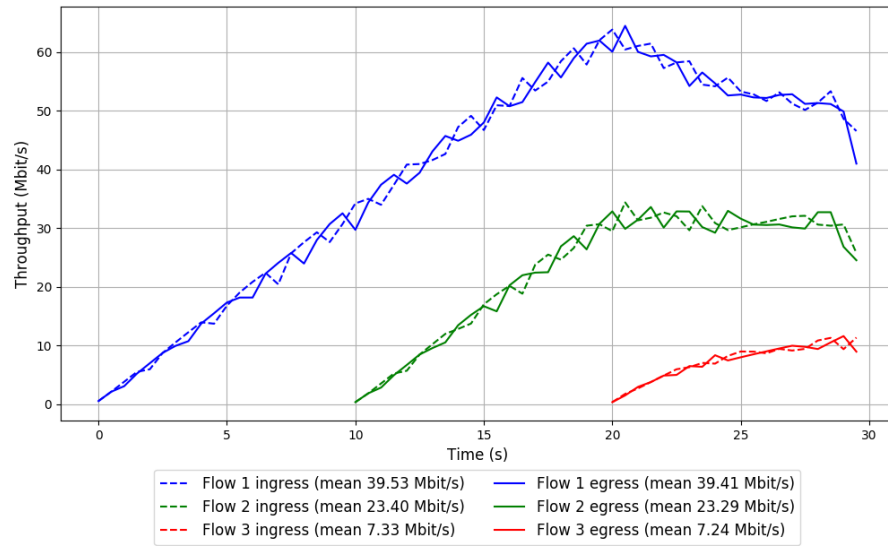
-- Flow 3:

Average throughput: 7.24 Mbit/s

95th percentile per-packet one-way delay: 91.297 ms

Loss rate: 2.09%

Run 9: Report of LEDBAT — Data Link

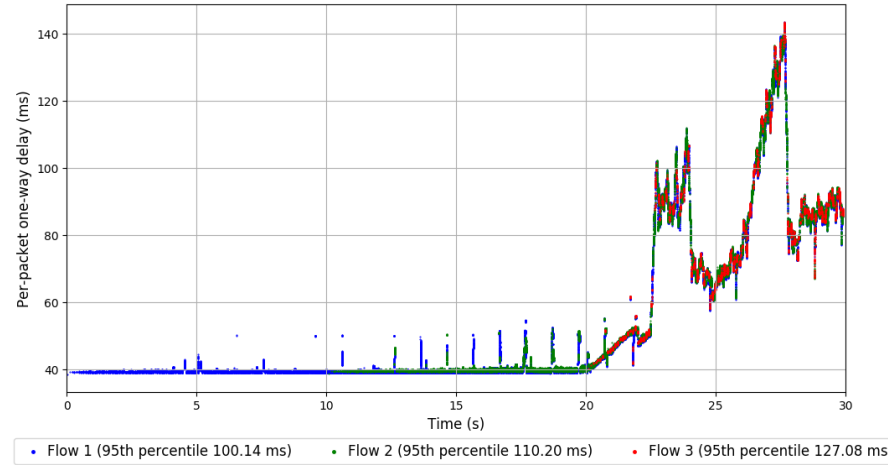
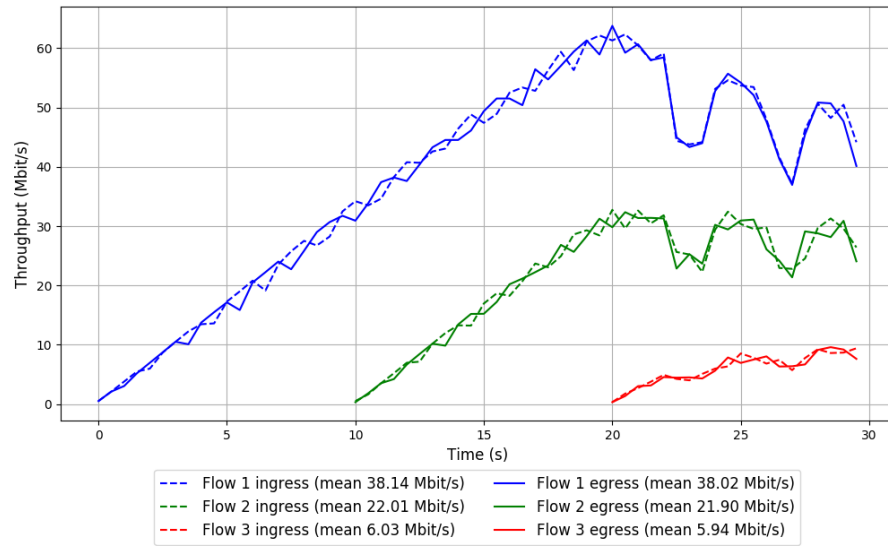


Run 10: Statistics of LEDBAT

Start at: 2017-09-18 21:57:08
End at: 2017-09-18 21:57:38
Local clock offset: -5.51 ms
Remote clock offset: -1.042 ms

Below is generated by plot.py at 2017-09-19 00:16:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 54.49 Mbit/s
95th percentile per-packet one-way delay: 104.284 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 38.02 Mbit/s
95th percentile per-packet one-way delay: 100.142 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 21.90 Mbit/s
95th percentile per-packet one-way delay: 110.201 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 5.94 Mbit/s
95th percentile per-packet one-way delay: 127.080 ms
Loss rate: 2.20%

Run 10: Report of LEDBAT — Data Link

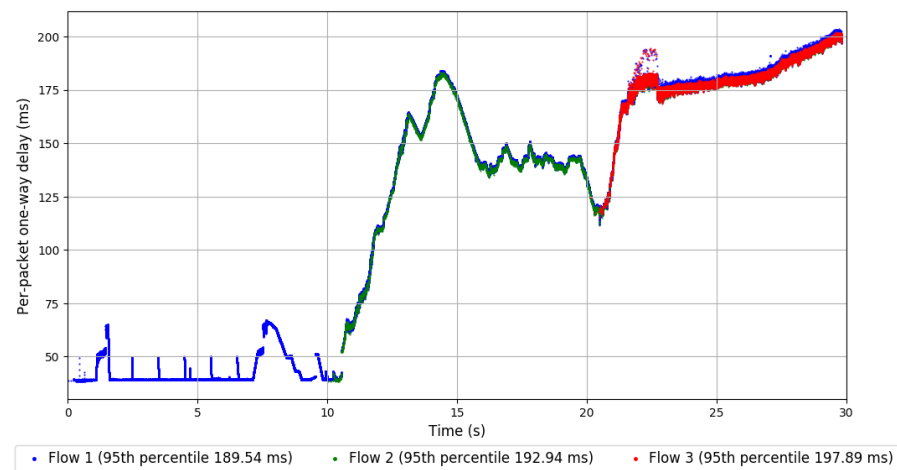
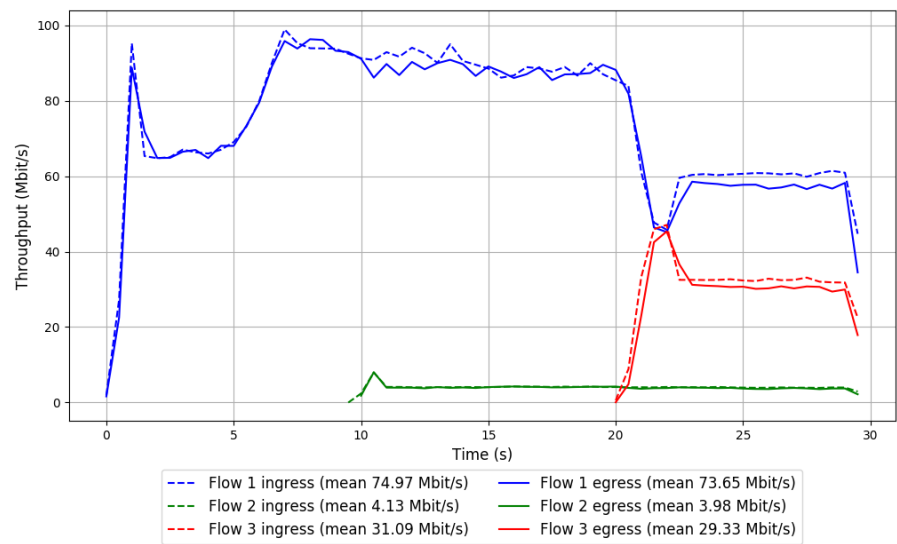


Run 1: Statistics of PCC

Start at: 2017-09-18 20:02:37
End at: 2017-09-18 20:03:07
Local clock offset: -14.07 ms
Remote clock offset: -1.226 ms

Below is generated by plot.py at 2017-09-19 00:16:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.81 Mbit/s
95th percentile per-packet one-way delay: 192.261 ms
Loss rate: 2.78%
-- Flow 1:
Average throughput: 73.65 Mbit/s
95th percentile per-packet one-way delay: 189.540 ms
Loss rate: 2.10%
-- Flow 2:
Average throughput: 3.98 Mbit/s
95th percentile per-packet one-way delay: 192.942 ms
Loss rate: 4.17%
-- Flow 3:
Average throughput: 29.33 Mbit/s
95th percentile per-packet one-way delay: 197.889 ms
Loss rate: 7.39%

Run 1: Report of PCC — Data Link

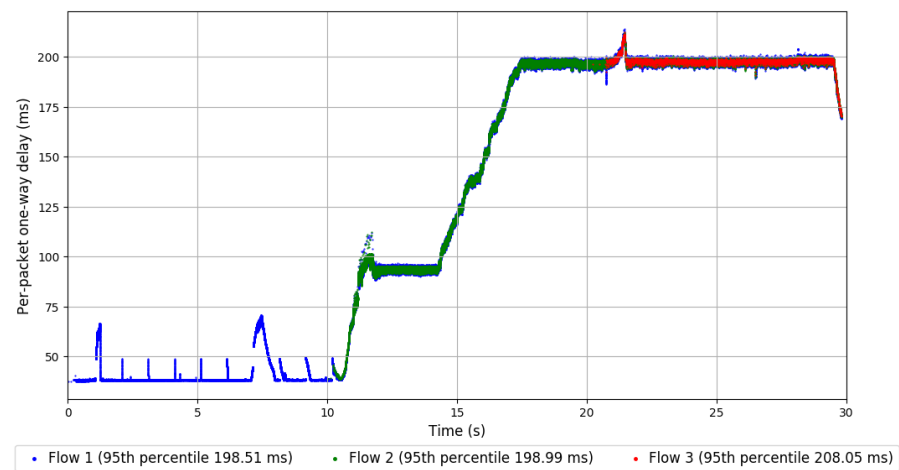
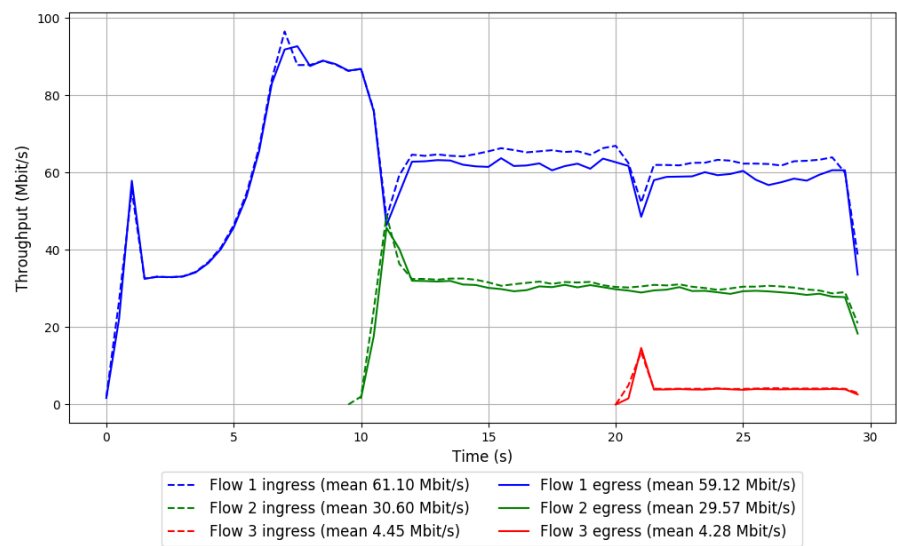


Run 2: Statistics of PCC

Start at: 2017-09-18 20:15:29
End at: 2017-09-18 20:15:59
Local clock offset: -27.583 ms
Remote clock offset: -1.182 ms

Below is generated by plot.py at 2017-09-19 00:16:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.14 Mbit/s
95th percentile per-packet one-way delay: 198.751 ms
Loss rate: 3.67%
-- Flow 1:
Average throughput: 59.12 Mbit/s
95th percentile per-packet one-way delay: 198.512 ms
Loss rate: 3.55%
-- Flow 2:
Average throughput: 29.57 Mbit/s
95th percentile per-packet one-way delay: 198.987 ms
Loss rate: 3.85%
-- Flow 3:
Average throughput: 4.28 Mbit/s
95th percentile per-packet one-way delay: 208.049 ms
Loss rate: 6.20%

Run 2: Report of PCC — Data Link

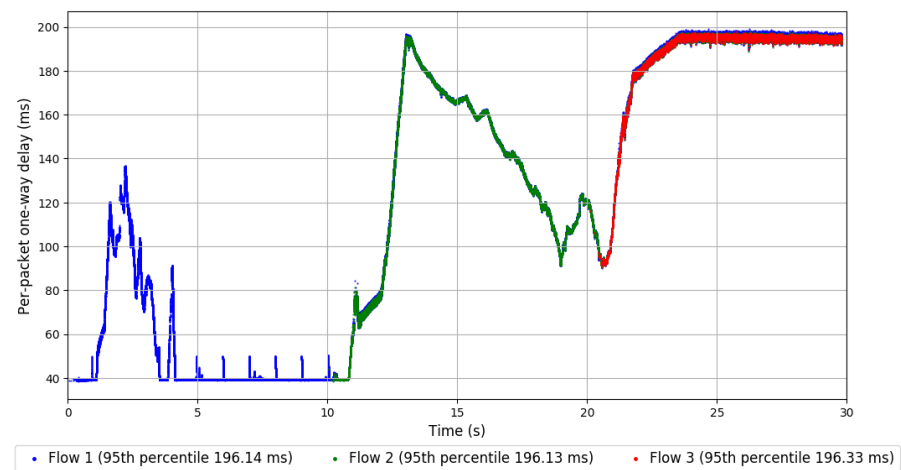
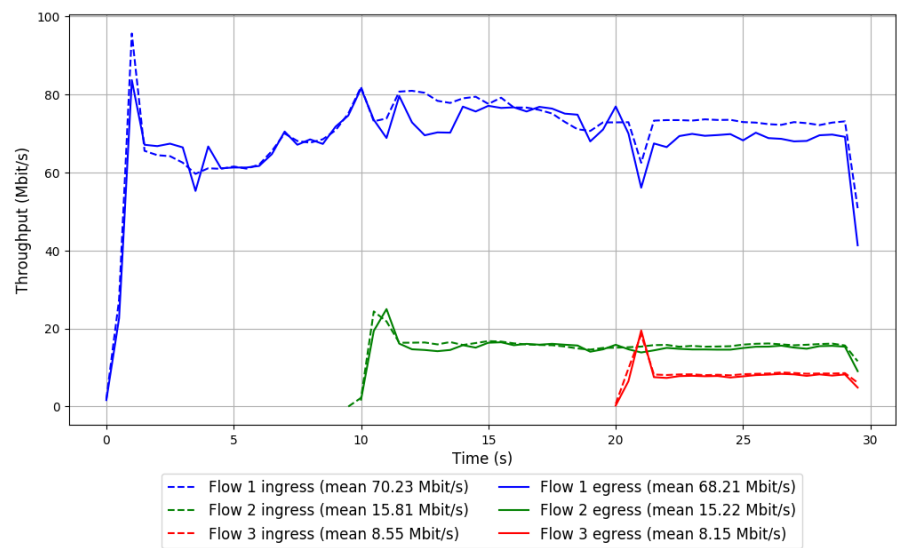


Run 3: Statistics of PCC

Start at: 2017-09-18 20:28:02
End at: 2017-09-18 20:28:32
Local clock offset: -19.174 ms
Remote clock offset: -1.123 ms

Below is generated by plot.py at 2017-09-19 00:16:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.96 Mbit/s
95th percentile per-packet one-way delay: 196.149 ms
Loss rate: 3.44%
-- Flow 1:
Average throughput: 68.21 Mbit/s
95th percentile per-packet one-way delay: 196.136 ms
Loss rate: 3.19%
-- Flow 2:
Average throughput: 15.22 Mbit/s
95th percentile per-packet one-way delay: 196.132 ms
Loss rate: 4.28%
-- Flow 3:
Average throughput: 8.15 Mbit/s
95th percentile per-packet one-way delay: 196.328 ms
Loss rate: 6.42%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

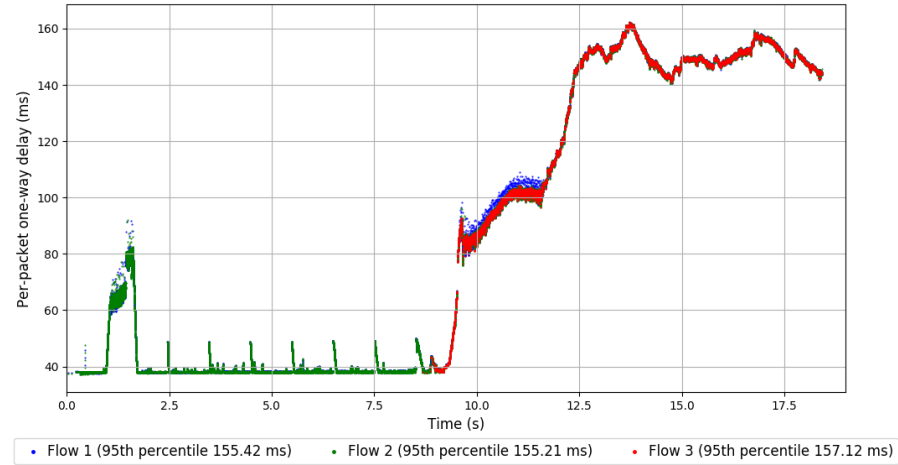
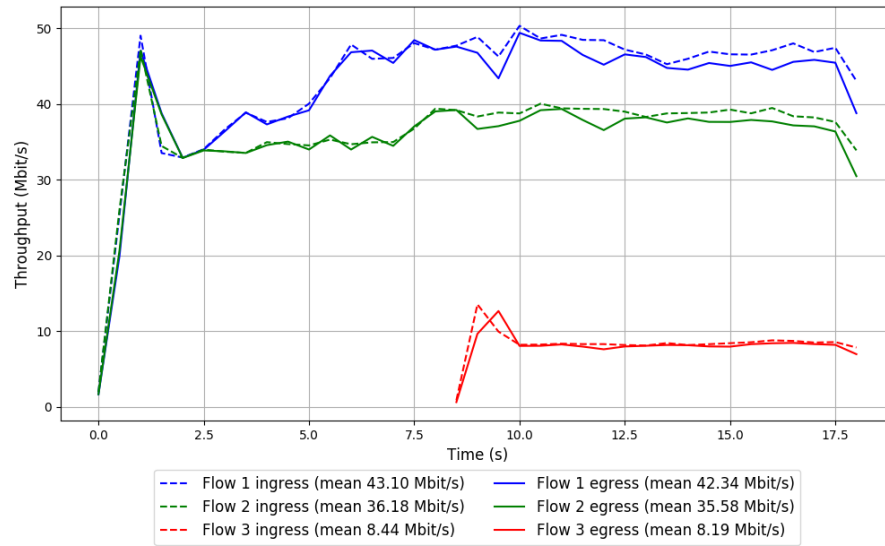
Start at: 2017-09-18 20:40:37

End at: 2017-09-18 20:41:07

Local clock offset: -4.472 ms

Remote clock offset: -1.201 ms

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

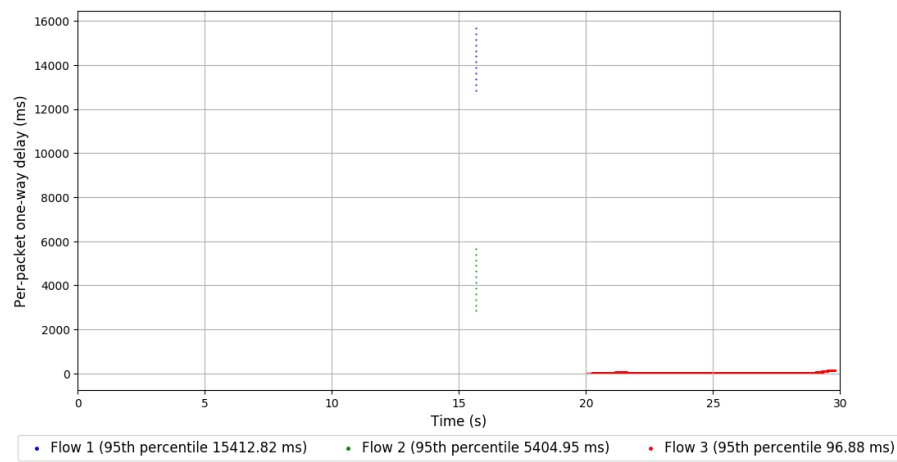
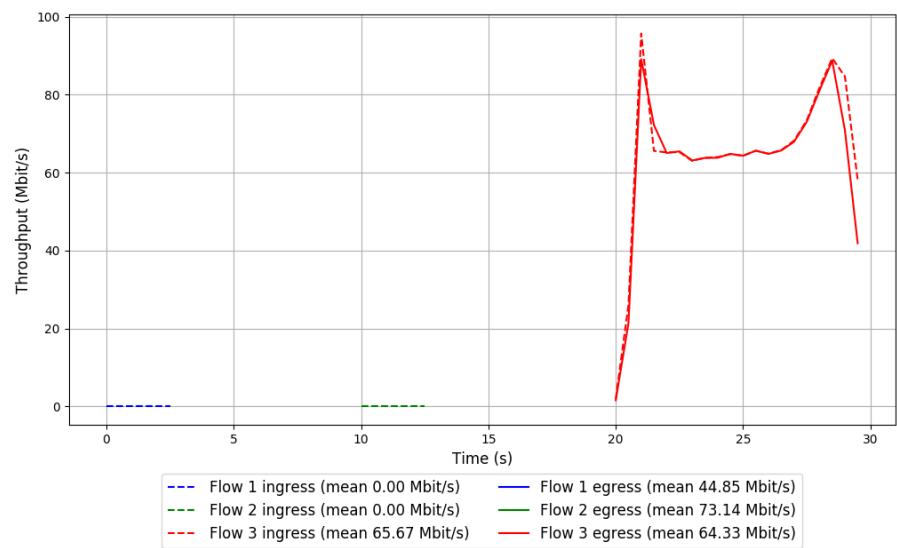
Start at: 2017-09-18 20:53:18

End at: 2017-09-18 20:53:48

Local clock offset: -5.229 ms

Remote clock offset: -1.247 ms

Run 5: Report of PCC — Data Link

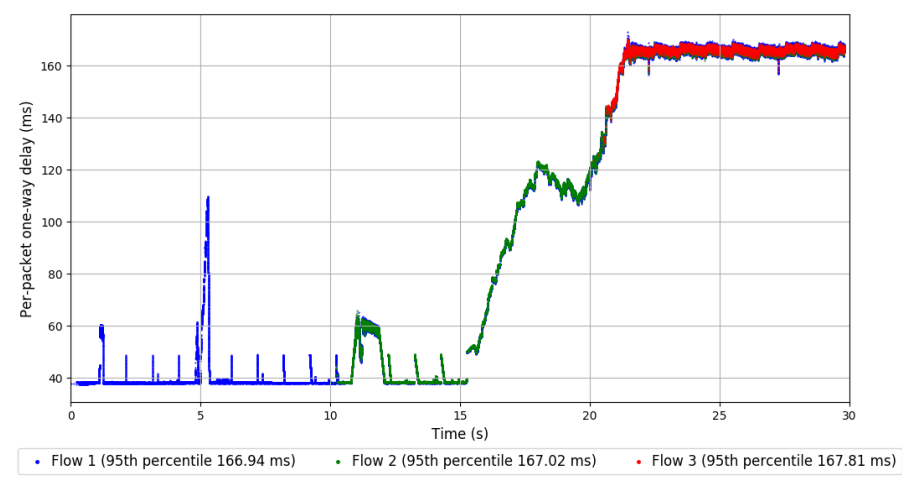
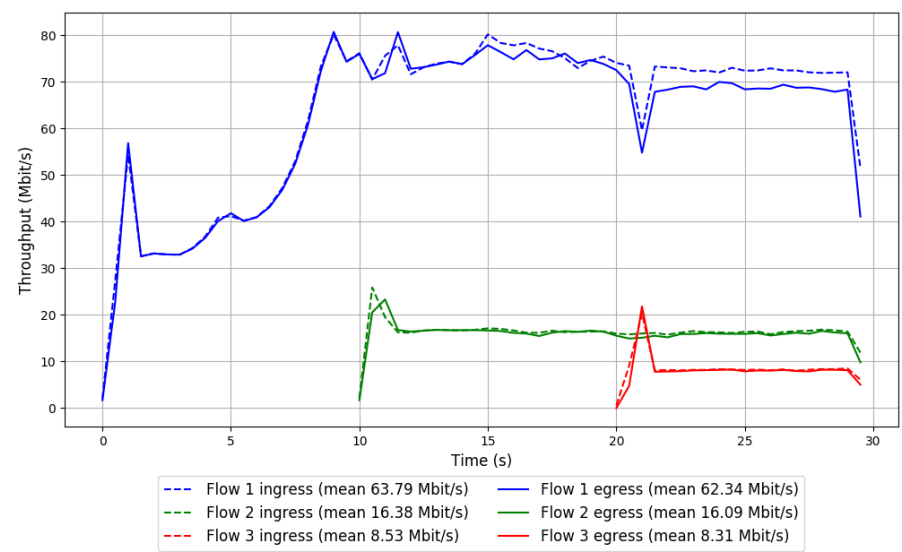


Run 6: Statistics of PCC

Start at: 2017-09-18 21:05:40
End at: 2017-09-18 21:06:10
Local clock offset: -6.687 ms
Remote clock offset: -1.247 ms

Below is generated by plot.py at 2017-09-19 00:16:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.72 Mbit/s
95th percentile per-packet one-way delay: 167.022 ms
Loss rate: 2.61%
-- Flow 1:
Average throughput: 62.34 Mbit/s
95th percentile per-packet one-way delay: 166.938 ms
Loss rate: 2.60%
-- Flow 2:
Average throughput: 16.09 Mbit/s
95th percentile per-packet one-way delay: 167.024 ms
Loss rate: 2.23%
-- Flow 3:
Average throughput: 8.31 Mbit/s
95th percentile per-packet one-way delay: 167.809 ms
Loss rate: 4.37%

Run 6: Report of PCC — Data Link

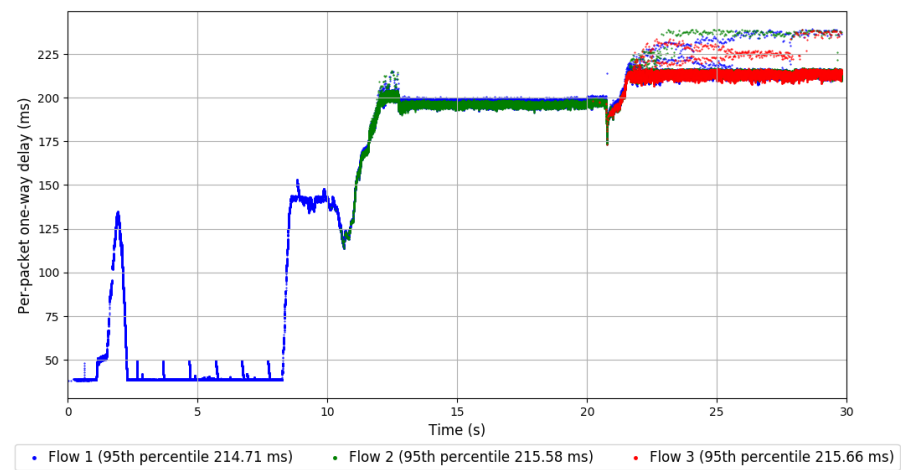
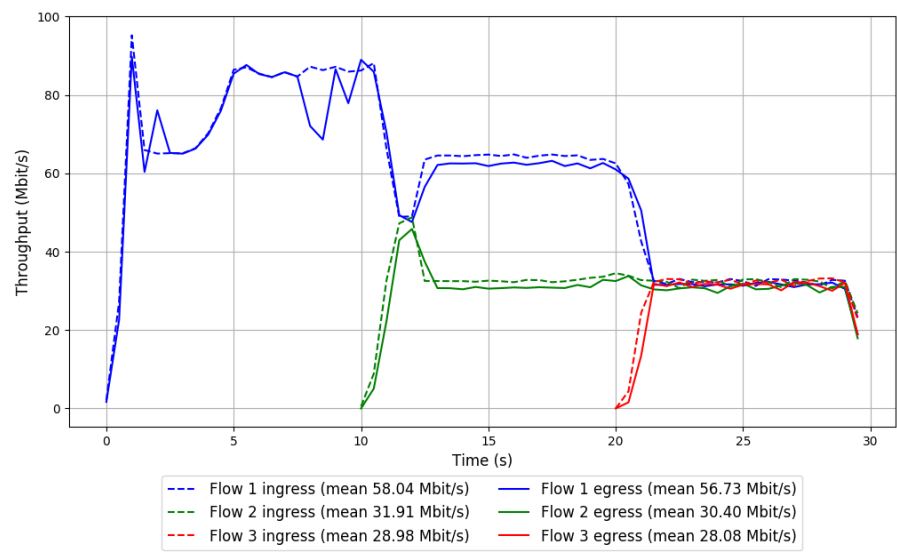


Run 7: Statistics of PCC

Start at: 2017-09-18 21:18:12
End at: 2017-09-18 21:18:42
Local clock offset: -5.172 ms
Remote clock offset: -1.265 ms

Below is generated by plot.py at 2017-09-19 00:17:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.83 Mbit/s
95th percentile per-packet one-way delay: 215.253 ms
Loss rate: 3.70%
-- Flow 1:
Average throughput: 56.73 Mbit/s
95th percentile per-packet one-way delay: 214.706 ms
Loss rate: 2.58%
-- Flow 2:
Average throughput: 30.40 Mbit/s
95th percentile per-packet one-way delay: 215.581 ms
Loss rate: 5.78%
-- Flow 3:
Average throughput: 28.08 Mbit/s
95th percentile per-packet one-way delay: 215.665 ms
Loss rate: 5.91%

Run 7: Report of PCC — Data Link

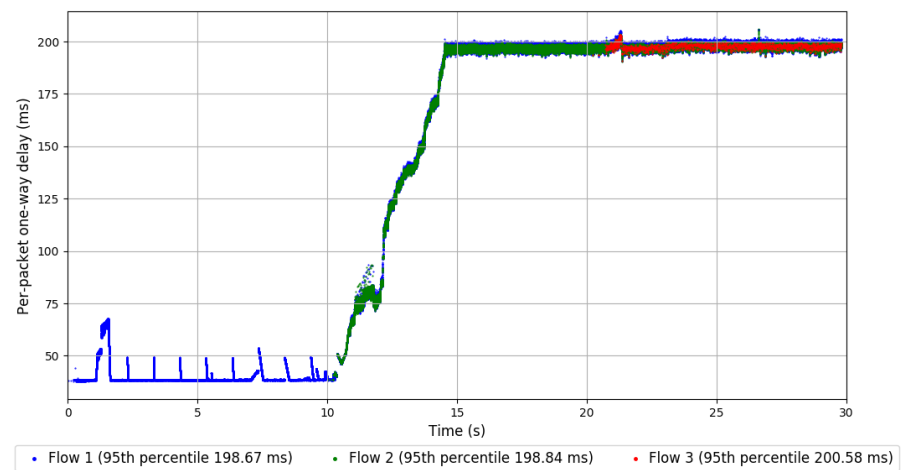
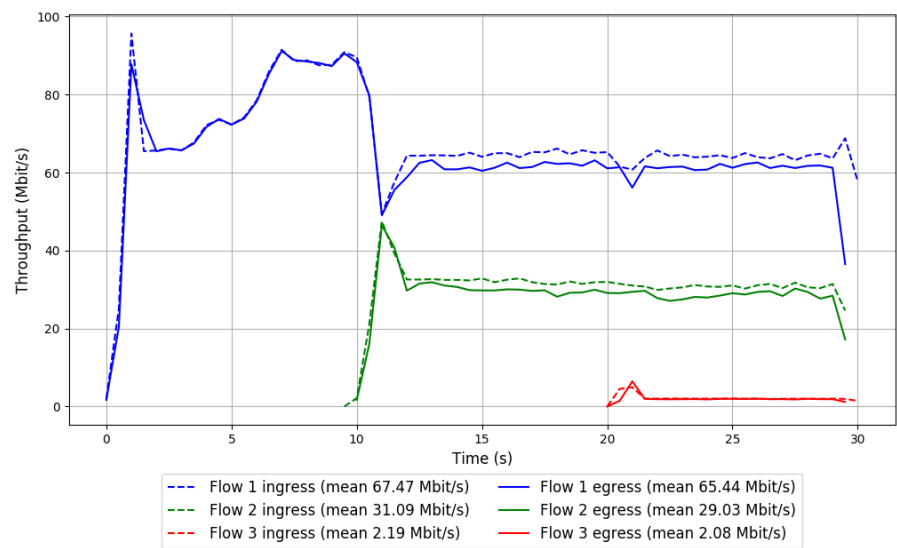


Run 8: Statistics of PCC

Start at: 2017-09-18 21:30:44
End at: 2017-09-18 21:31:14
Local clock offset: -6.026 ms
Remote clock offset: -1.214 ms

Below is generated by plot.py at 2017-09-19 00:17:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.39 Mbit/s
95th percentile per-packet one-way delay: 198.737 ms
Loss rate: 5.54%
-- Flow 1:
Average throughput: 65.44 Mbit/s
95th percentile per-packet one-way delay: 198.667 ms
Loss rate: 4.96%
-- Flow 2:
Average throughput: 29.03 Mbit/s
95th percentile per-packet one-way delay: 198.839 ms
Loss rate: 7.22%
-- Flow 3:
Average throughput: 2.08 Mbit/s
95th percentile per-packet one-way delay: 200.577 ms
Loss rate: 12.06%

Run 8: Report of PCC — Data Link

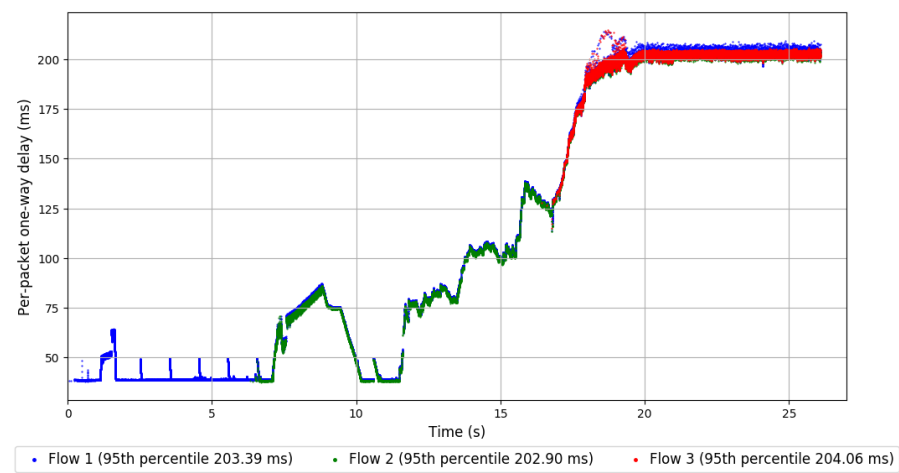
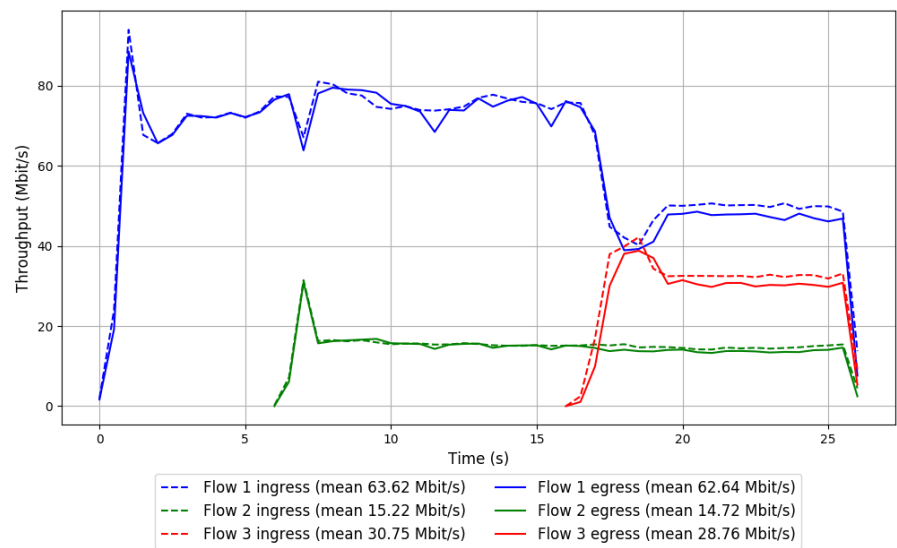


Run 9: Statistics of PCC

Start at: 2017-09-18 21:43:17
End at: 2017-09-18 21:43:47
Local clock offset: -7.131 ms
Remote clock offset: -1.134 ms

Below is generated by plot.py at 2017-09-19 00:17:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.46 Mbit/s
95th percentile per-packet one-way delay: 203.545 ms
Loss rate: 3.03%
-- Flow 1:
Average throughput: 62.64 Mbit/s
95th percentile per-packet one-way delay: 203.387 ms
Loss rate: 1.94%
-- Flow 2:
Average throughput: 14.72 Mbit/s
95th percentile per-packet one-way delay: 202.904 ms
Loss rate: 3.80%
-- Flow 3:
Average throughput: 28.76 Mbit/s
95th percentile per-packet one-way delay: 204.063 ms
Loss rate: 8.23%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-09-18 21:55:52

End at: 2017-09-18 21:56:22

Local clock offset: -7.317 ms

Remote clock offset: -1.06 ms

Below is generated by plot.py at 2017-09-19 00:17:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.97 Mbit/s

95th percentile per-packet one-way delay: 214.848 ms

Loss rate: 8.89%

-- Flow 1:

Average throughput: 55.91 Mbit/s

95th percentile per-packet one-way delay: 214.377 ms

Loss rate: 8.93%

-- Flow 2:

Average throughput: 30.47 Mbit/s

95th percentile per-packet one-way delay: 214.778 ms

Loss rate: 8.54%

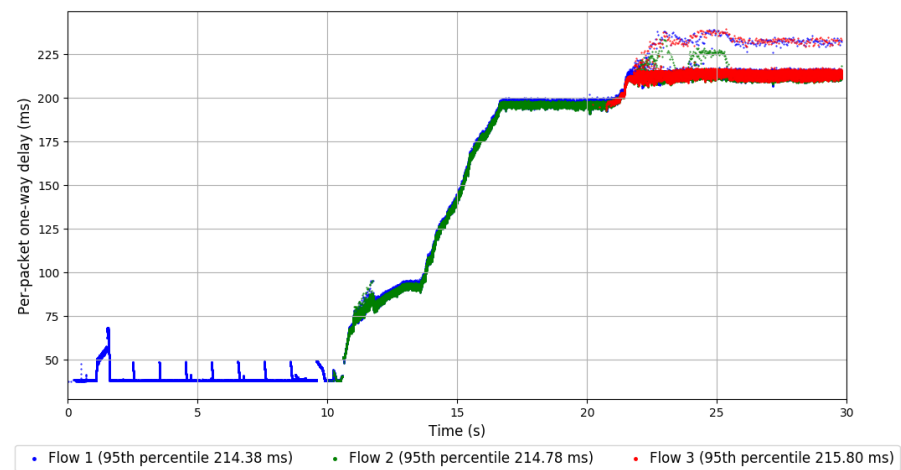
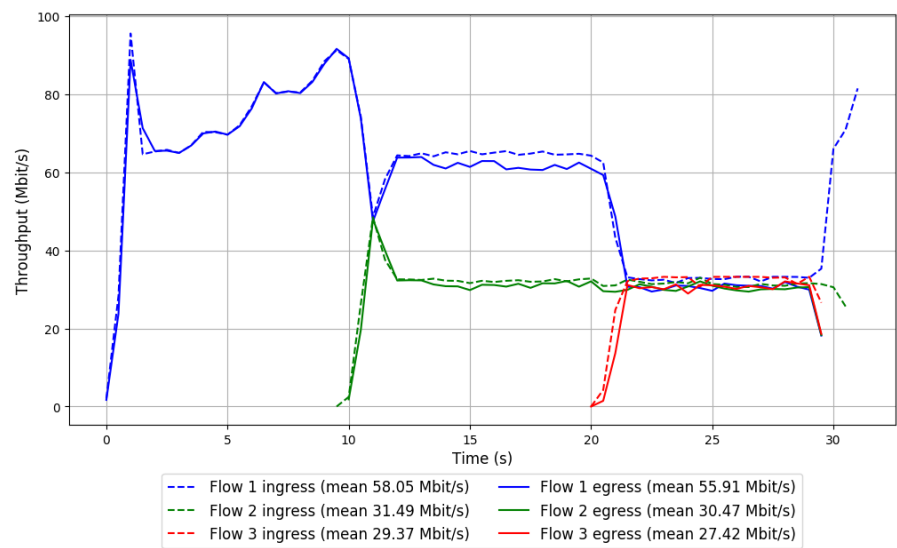
-- Flow 3:

Average throughput: 27.42 Mbit/s

95th percentile per-packet one-way delay: 215.800 ms

Loss rate: 9.48%

Run 10: Report of PCC — Data Link

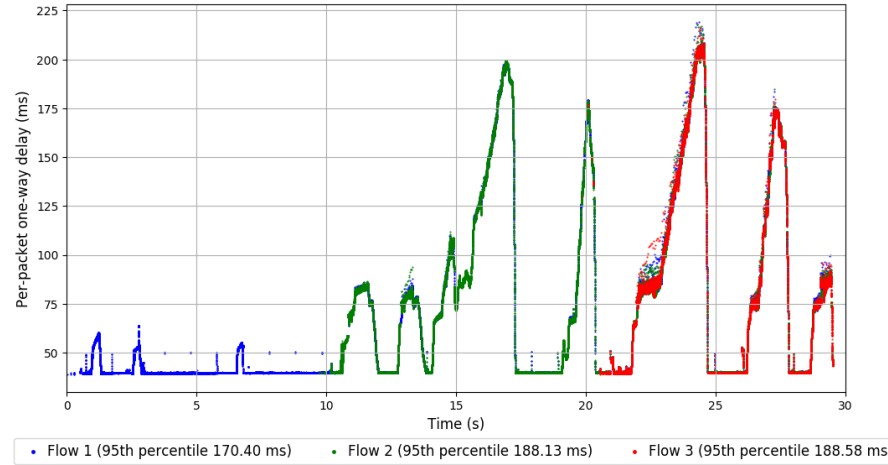
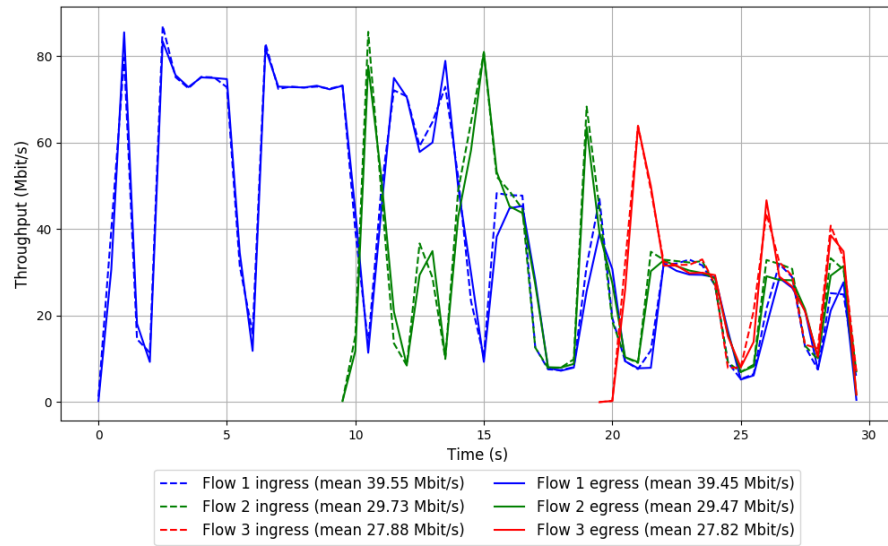


Run 1: Statistics of QUIC Cubic

Start at: 2017-09-18 19:54:54
End at: 2017-09-18 19:55:24
Local clock offset: -11.919 ms
Remote clock offset: -1.236 ms

Below is generated by plot.py at 2017-09-19 00:17:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.37 Mbit/s
95th percentile per-packet one-way delay: 180.031 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 39.45 Mbit/s
95th percentile per-packet one-way delay: 170.396 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 29.47 Mbit/s
95th percentile per-packet one-way delay: 188.131 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 27.82 Mbit/s
95th percentile per-packet one-way delay: 188.581 ms
Loss rate: 2.17%

Run 1: Report of QUIC Cubic — Data Link

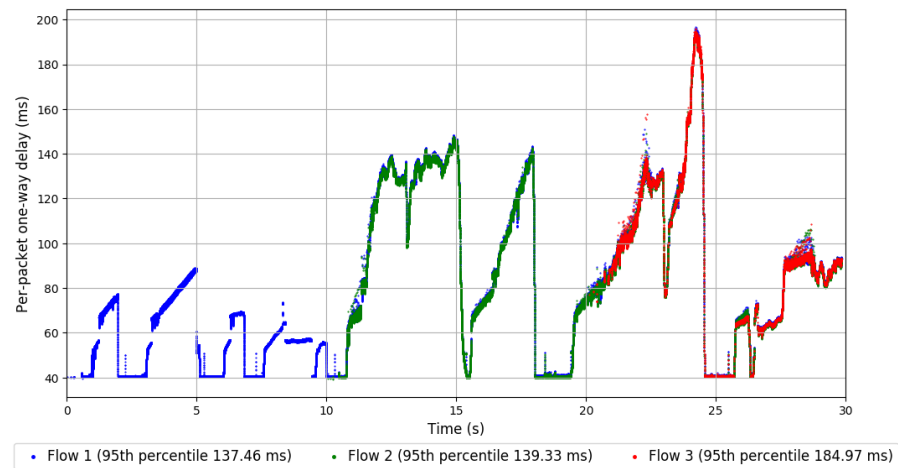
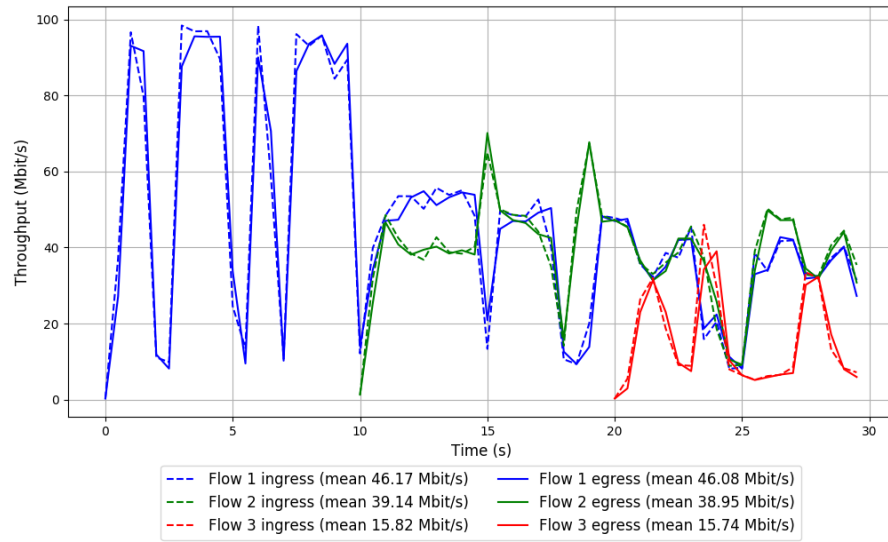


Run 2: Statistics of QUIC Cubic

Start at: 2017-09-18 20:07:41
End at: 2017-09-18 20:08:11
Local clock offset: -18.491 ms
Remote clock offset: -1.188 ms

Below is generated by plot.py at 2017-09-19 00:18:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.09 Mbit/s
95th percentile per-packet one-way delay: 138.970 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 46.08 Mbit/s
95th percentile per-packet one-way delay: 137.458 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 38.95 Mbit/s
95th percentile per-packet one-way delay: 139.326 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 15.74 Mbit/s
95th percentile per-packet one-way delay: 184.975 ms
Loss rate: 1.73%

Run 2: Report of QUIC Cubic — Data Link

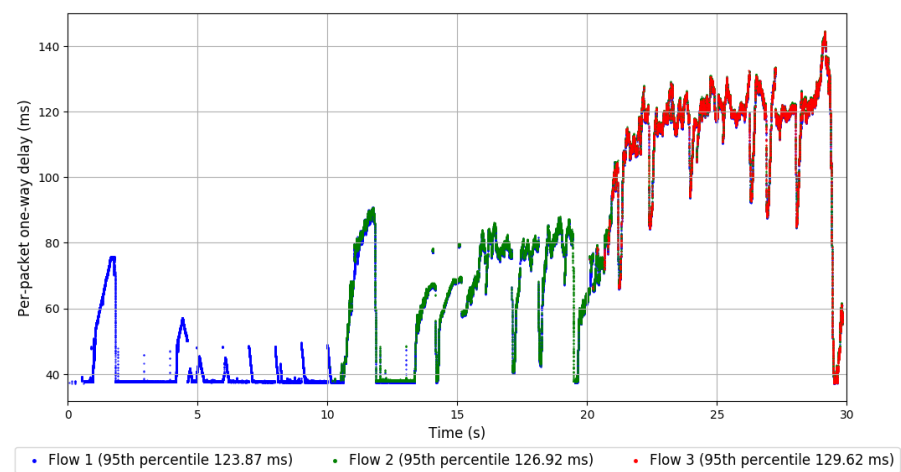
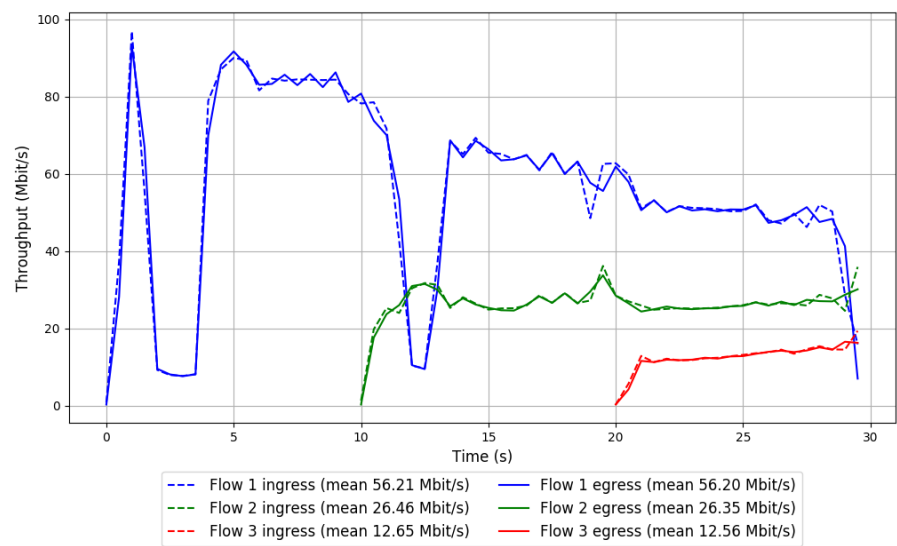


Run 3: Statistics of QUIC Cubic

Start at: 2017-09-18 20:20:24
End at: 2017-09-18 20:20:54
Local clock offset: -28.732 ms
Remote clock offset: -1.201 ms

Below is generated by plot.py at 2017-09-19 00:18:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.77 Mbit/s
95th percentile per-packet one-way delay: 125.434 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 56.20 Mbit/s
95th percentile per-packet one-way delay: 123.871 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 26.35 Mbit/s
95th percentile per-packet one-way delay: 126.916 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 12.56 Mbit/s
95th percentile per-packet one-way delay: 129.617 ms
Loss rate: 1.98%

Run 3: Report of QUIC Cubic — Data Link

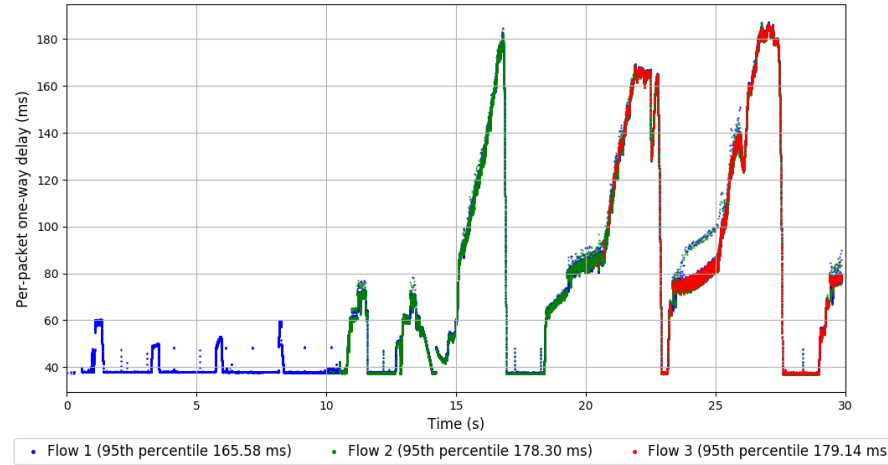
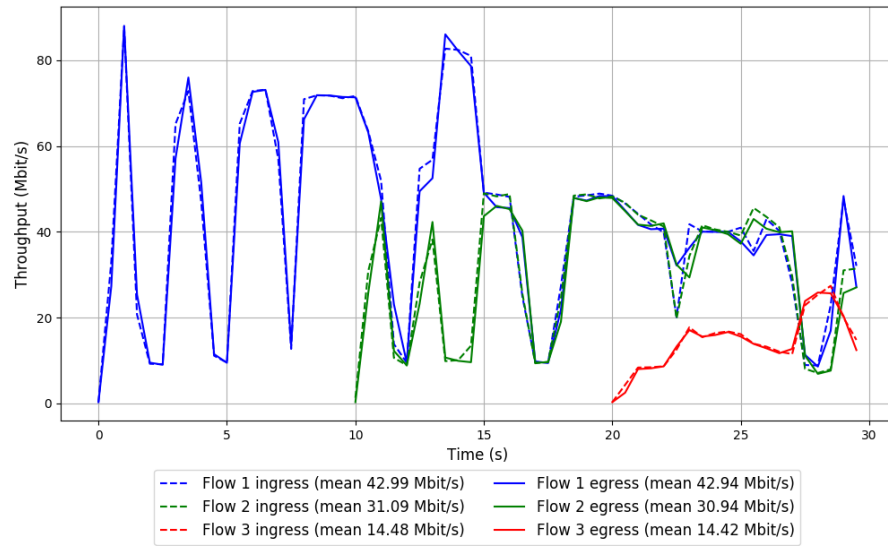


Run 4: Statistics of QUIC Cubic

Start at: 2017-09-18 20:32:57
End at: 2017-09-18 20:33:27
Local clock offset: -8.276 ms
Remote clock offset: -1.145 ms

Below is generated by plot.py at 2017-09-19 00:18:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.19 Mbit/s
95th percentile per-packet one-way delay: 171.917 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 42.94 Mbit/s
95th percentile per-packet one-way delay: 165.577 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 30.94 Mbit/s
95th percentile per-packet one-way delay: 178.302 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 14.42 Mbit/s
95th percentile per-packet one-way delay: 179.142 ms
Loss rate: 1.85%

Run 4: Report of QUIC Cubic — Data Link

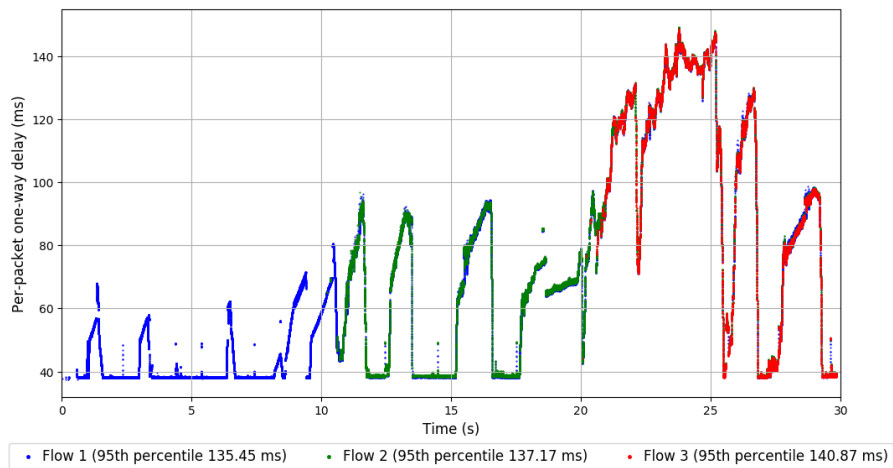
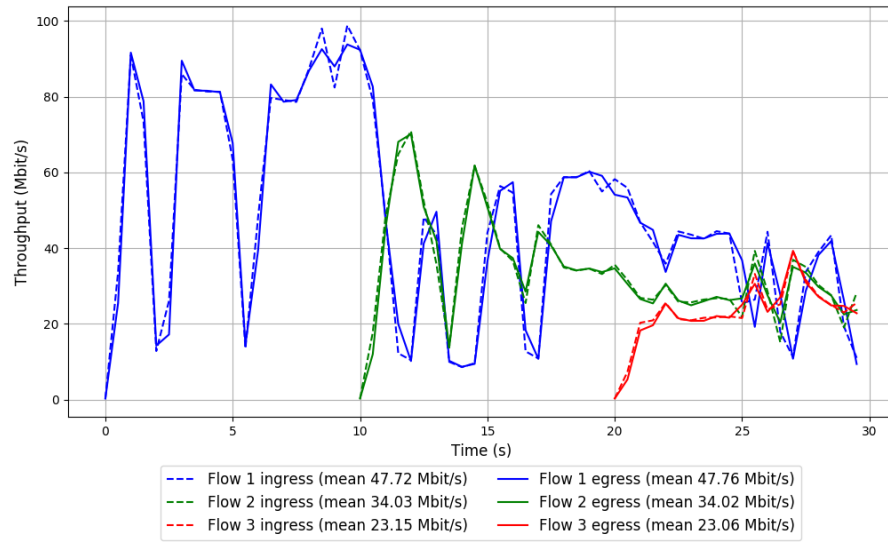


Run 5: Statistics of QUIC Cubic

Start at: 2017-09-18 20:45:31
End at: 2017-09-18 20:46:01
Local clock offset: -3.955 ms
Remote clock offset: -1.228 ms

Below is generated by plot.py at 2017-09-19 00:18:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.87 Mbit/s
95th percentile per-packet one-way delay: 137.051 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 47.76 Mbit/s
95th percentile per-packet one-way delay: 135.446 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 34.02 Mbit/s
95th percentile per-packet one-way delay: 137.167 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 23.06 Mbit/s
95th percentile per-packet one-way delay: 140.869 ms
Loss rate: 1.34%

Run 5: Report of QUIC Cubic — Data Link

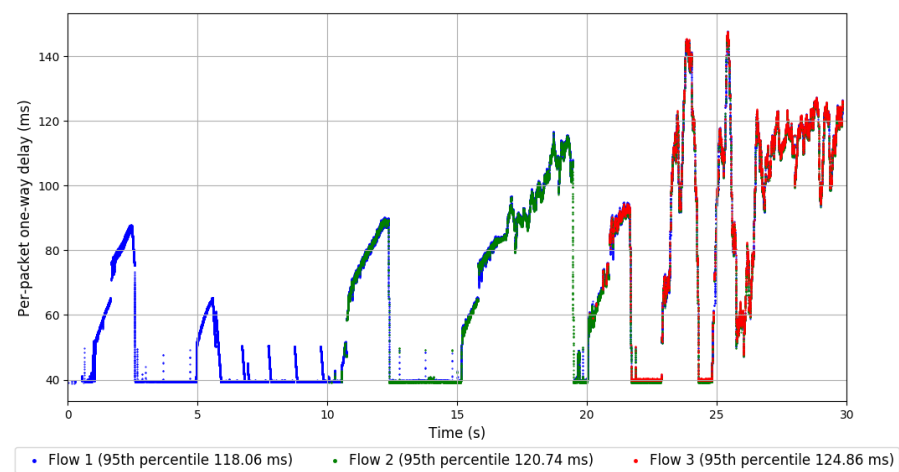
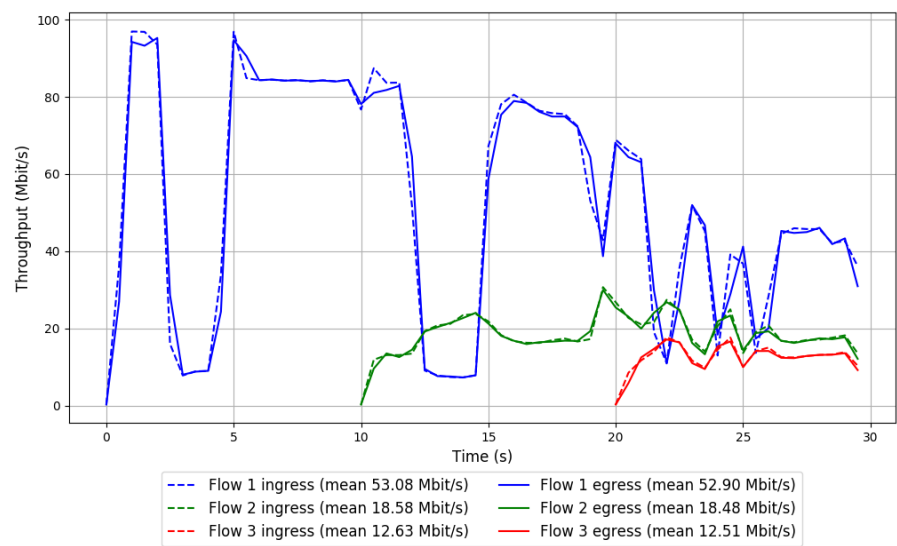


Run 6: Statistics of QUIC Cubic

Start at: 2017-09-18 20:58:08
End at: 2017-09-18 20:58:38
Local clock offset: -4.078 ms
Remote clock offset: -1.166 ms

Below is generated by plot.py at 2017-09-19 00:18:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.26 Mbit/s
95th percentile per-packet one-way delay: 119.913 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 52.90 Mbit/s
95th percentile per-packet one-way delay: 118.065 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 18.48 Mbit/s
95th percentile per-packet one-way delay: 120.741 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 12.51 Mbit/s
95th percentile per-packet one-way delay: 124.856 ms
Loss rate: 2.20%

Run 6: Report of QUIC Cubic — Data Link

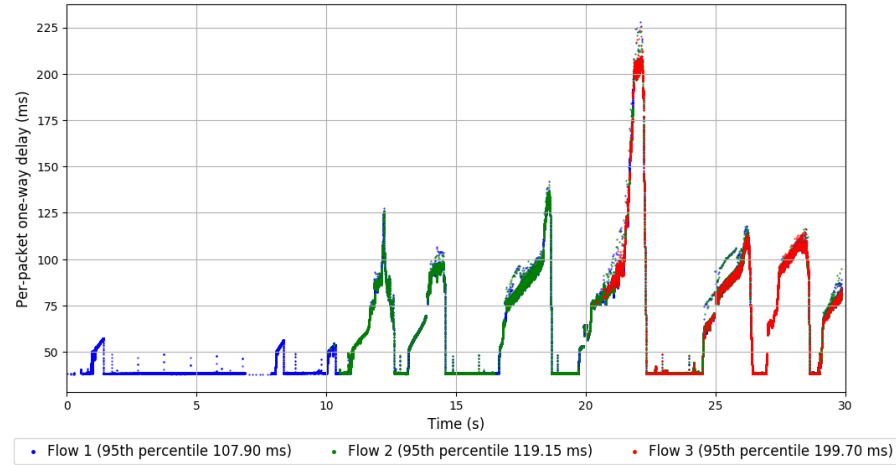
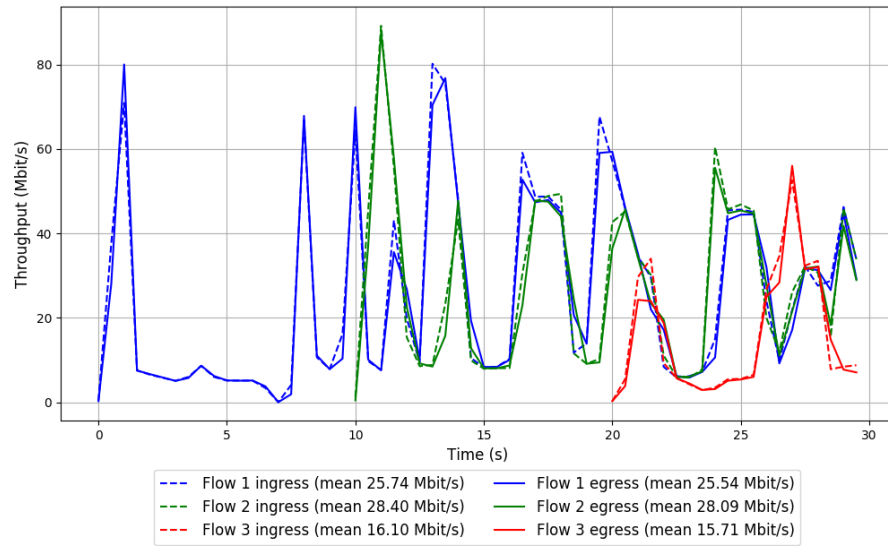


Run 7: Statistics of QUIC Cubic

Start at: 2017-09-18 21:10:36
End at: 2017-09-18 21:11:06
Local clock offset: -5.907 ms
Remote clock offset: -1.217 ms

Below is generated by plot.py at 2017-09-19 00:18:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.31 Mbit/s
95th percentile per-packet one-way delay: 118.419 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 25.54 Mbit/s
95th percentile per-packet one-way delay: 107.899 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 28.09 Mbit/s
95th percentile per-packet one-way delay: 119.150 ms
Loss rate: 1.60%
-- Flow 3:
Average throughput: 15.71 Mbit/s
95th percentile per-packet one-way delay: 199.700 ms
Loss rate: 3.48%

Run 7: Report of QUIC Cubic — Data Link

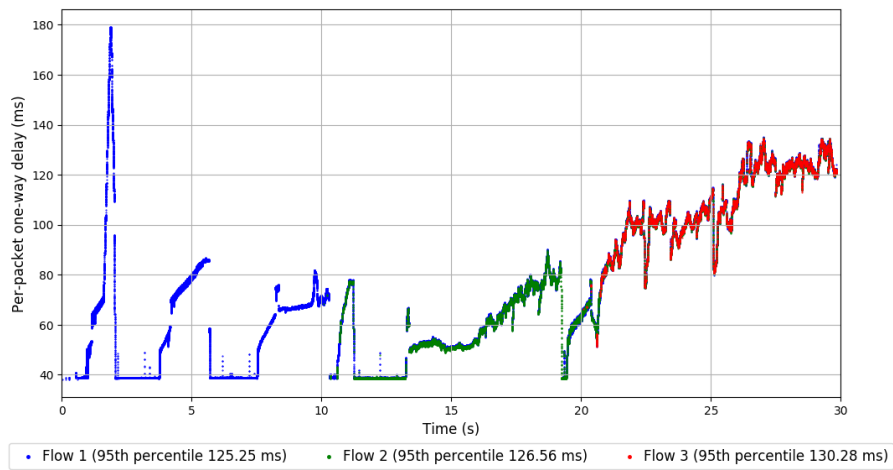
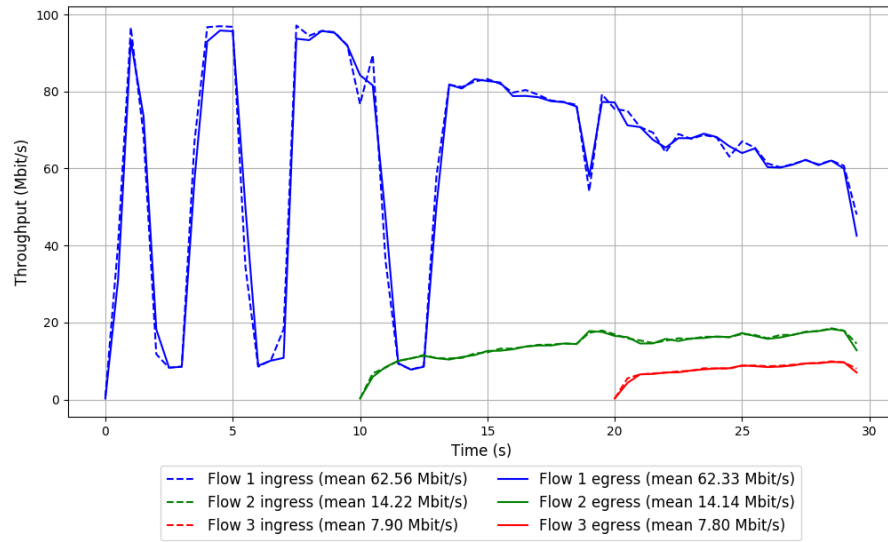


Run 8: Statistics of QUIC Cubic

Start at: 2017-09-18 21:23:06
End at: 2017-09-18 21:23:36
Local clock offset: -4.766 ms
Remote clock offset: -1.213 ms

Below is generated by plot.py at 2017-09-19 00:19:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.25 Mbit/s
95th percentile per-packet one-way delay: 125.682 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 62.33 Mbit/s
95th percentile per-packet one-way delay: 125.254 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 14.14 Mbit/s
95th percentile per-packet one-way delay: 126.562 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 7.80 Mbit/s
95th percentile per-packet one-way delay: 130.278 ms
Loss rate: 2.28%

Run 8: Report of QUIC Cubic — Data Link

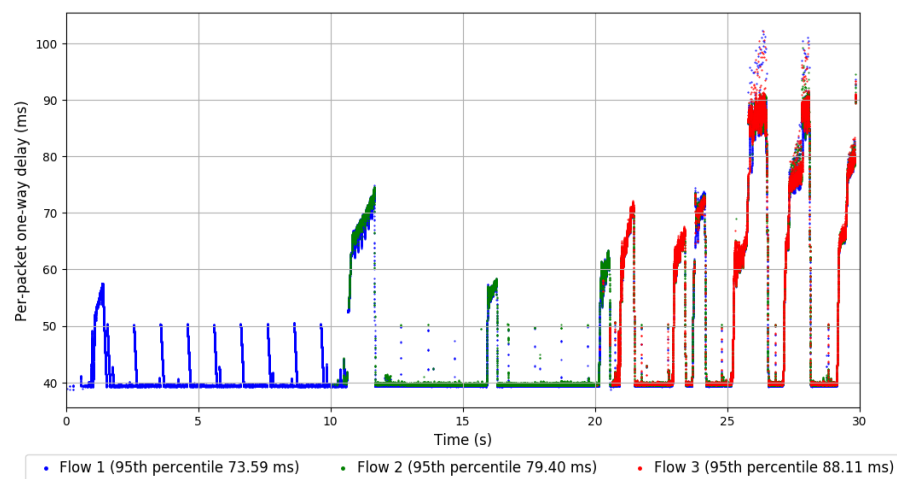
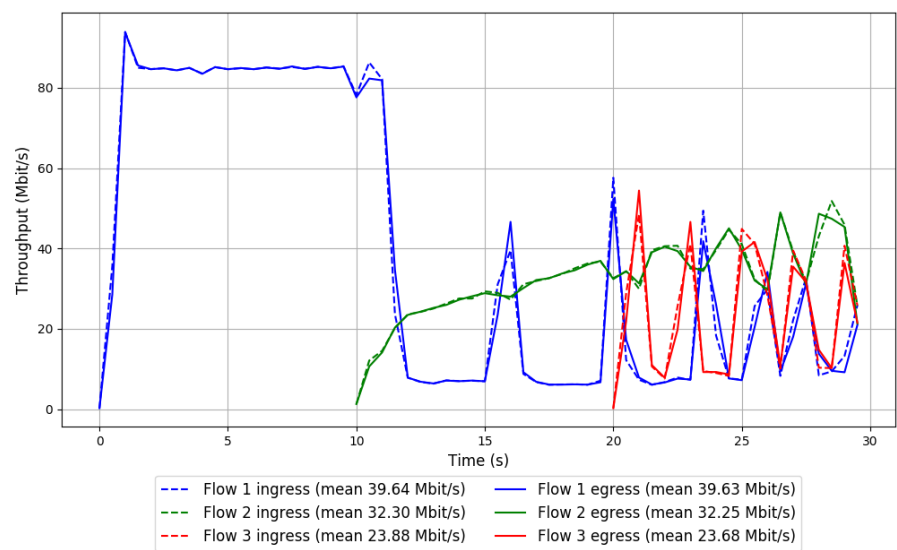


Run 9: Statistics of QUIC Cubic

Start at: 2017-09-18 21:35:39
End at: 2017-09-18 21:36:09
Local clock offset: -5.309 ms
Remote clock offset: -1.225 ms

Below is generated by plot.py at 2017-09-19 00:19:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.81 Mbit/s
95th percentile per-packet one-way delay: 79.125 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 39.63 Mbit/s
95th percentile per-packet one-way delay: 73.590 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 32.25 Mbit/s
95th percentile per-packet one-way delay: 79.404 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 23.68 Mbit/s
95th percentile per-packet one-way delay: 88.110 ms
Loss rate: 2.00%

Run 9: Report of QUIC Cubic — Data Link

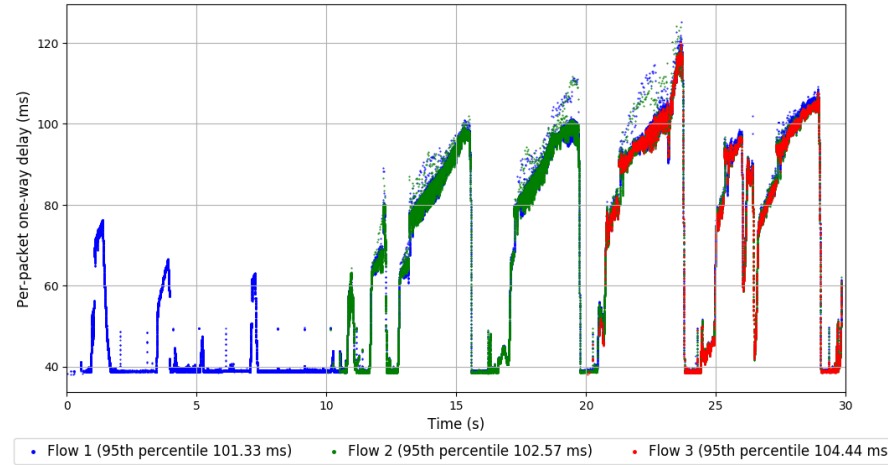
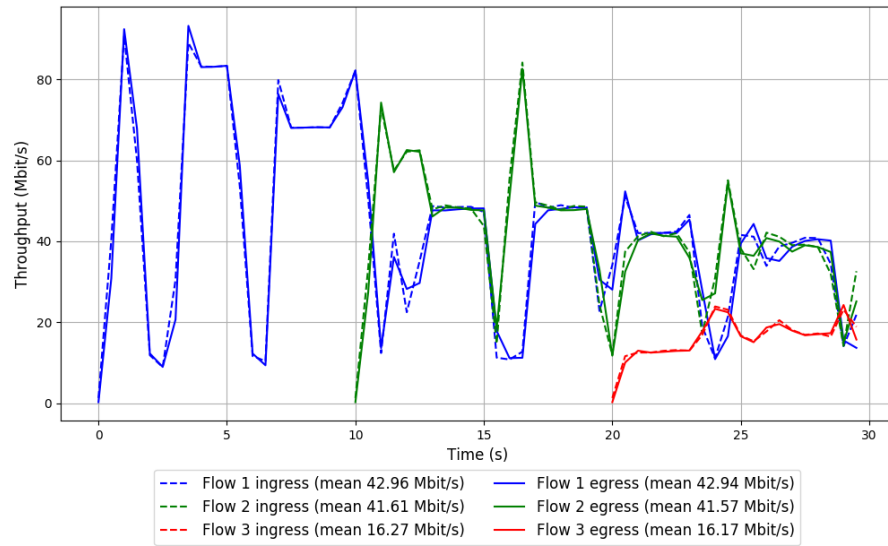


Run 10: Statistics of QUIC Cubic

Start at: 2017-09-18 21:48:13
End at: 2017-09-18 21:48:43
Local clock offset: -7.898 ms
Remote clock offset: -1.105 ms

Below is generated by plot.py at 2017-09-19 00:19:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.86 Mbit/s
95th percentile per-packet one-way delay: 102.413 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 42.94 Mbit/s
95th percentile per-packet one-way delay: 101.332 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 41.57 Mbit/s
95th percentile per-packet one-way delay: 102.569 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 16.17 Mbit/s
95th percentile per-packet one-way delay: 104.440 ms
Loss rate: 1.49%

Run 10: Report of QUIC Cubic — Data Link

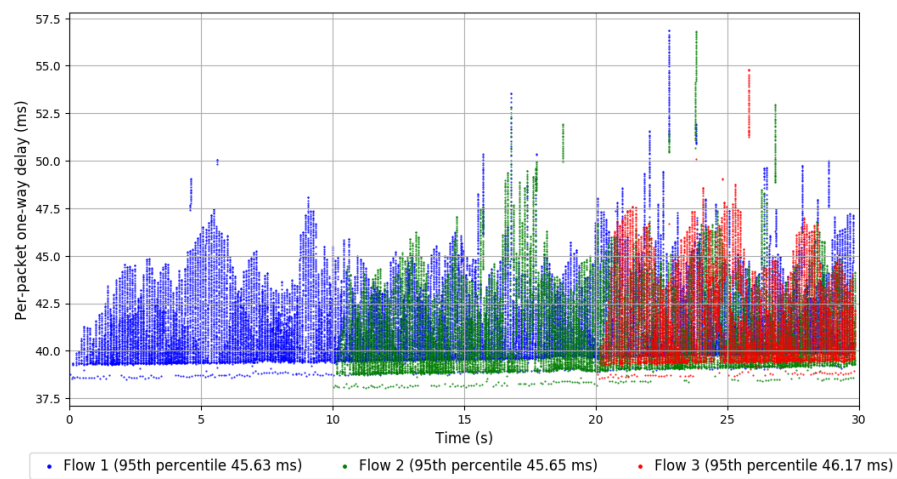
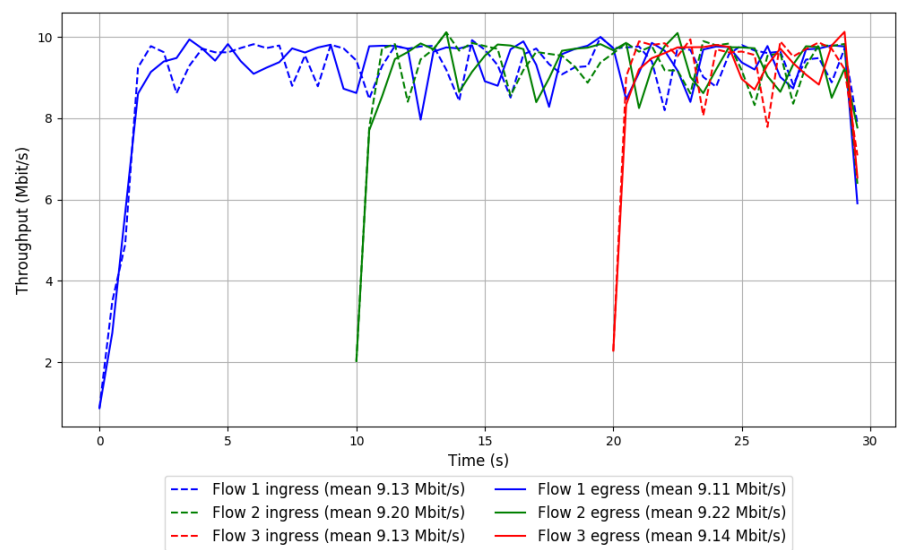


Run 1: Statistics of Sprout

Start at: 2017-09-18 20:05:14
End at: 2017-09-18 20:05:44
Local clock offset: -16.601 ms
Remote clock offset: -1.155 ms

Below is generated by plot.py at 2017-09-19 00:19:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.22 Mbit/s
95th percentile per-packet one-way delay: 45.777 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 9.11 Mbit/s
95th percentile per-packet one-way delay: 45.630 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 9.22 Mbit/s
95th percentile per-packet one-way delay: 45.652 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 9.14 Mbit/s
95th percentile per-packet one-way delay: 46.174 ms
Loss rate: 0.87%

Run 1: Report of Sprout — Data Link

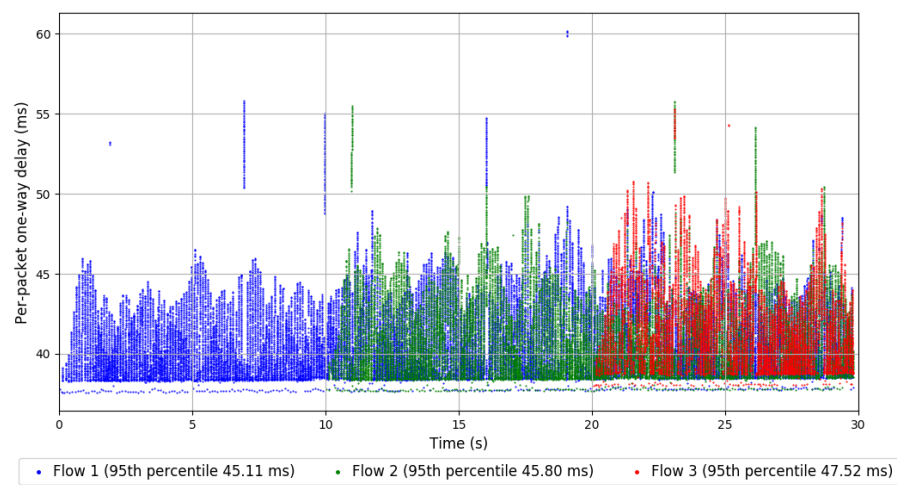
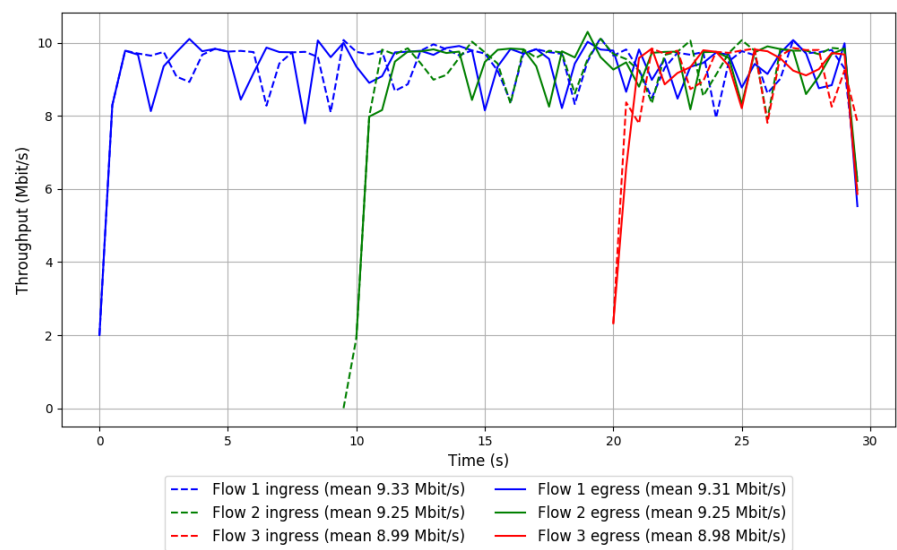


Run 2: Statistics of Sprout

Start at: 2017-09-18 20:17:58
End at: 2017-09-18 20:18:28
Local clock offset: -28.038 ms
Remote clock offset: -1.104 ms

Below is generated by plot.py at 2017-09-19 00:19:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.39 Mbit/s
95th percentile per-packet one-way delay: 45.827 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 9.31 Mbit/s
95th percentile per-packet one-way delay: 45.109 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 9.25 Mbit/s
95th percentile per-packet one-way delay: 45.801 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 8.98 Mbit/s
95th percentile per-packet one-way delay: 47.516 ms
Loss rate: 1.12%

Run 2: Report of Sprout — Data Link

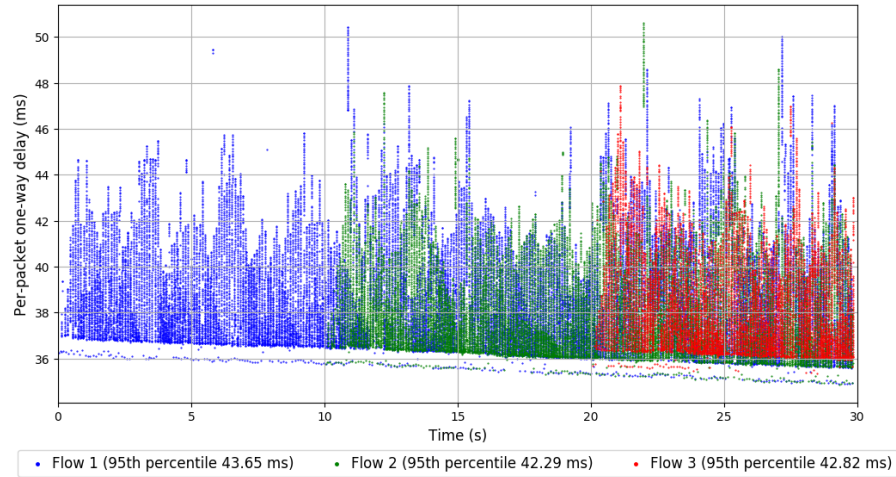
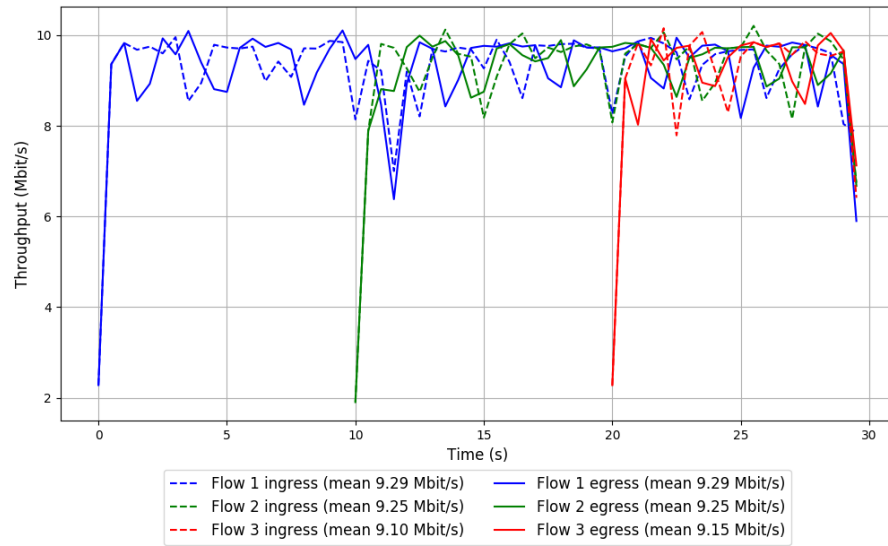


Run 3: Statistics of Sprout

Start at: 2017-09-18 20:30:30
End at: 2017-09-18 20:31:00
Local clock offset: -13.907 ms
Remote clock offset: -1.173 ms

```
# Below is generated by plot.py at 2017-09-19 00:19:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.42 Mbit/s
95th percentile per-packet one-way delay: 43.105 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 9.29 Mbit/s
95th percentile per-packet one-way delay: 43.648 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 9.25 Mbit/s
95th percentile per-packet one-way delay: 42.293 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 9.15 Mbit/s
95th percentile per-packet one-way delay: 42.817 ms
Loss rate: 0.31%
```

Run 3: Report of Sprout — Data Link

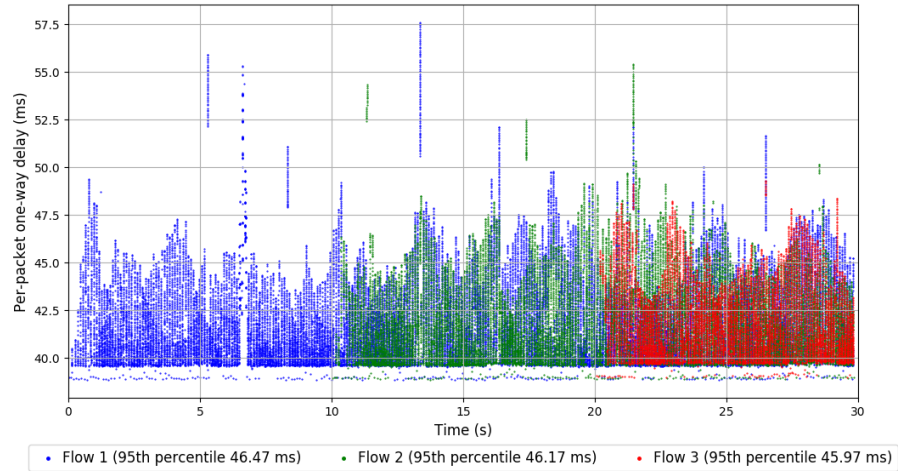
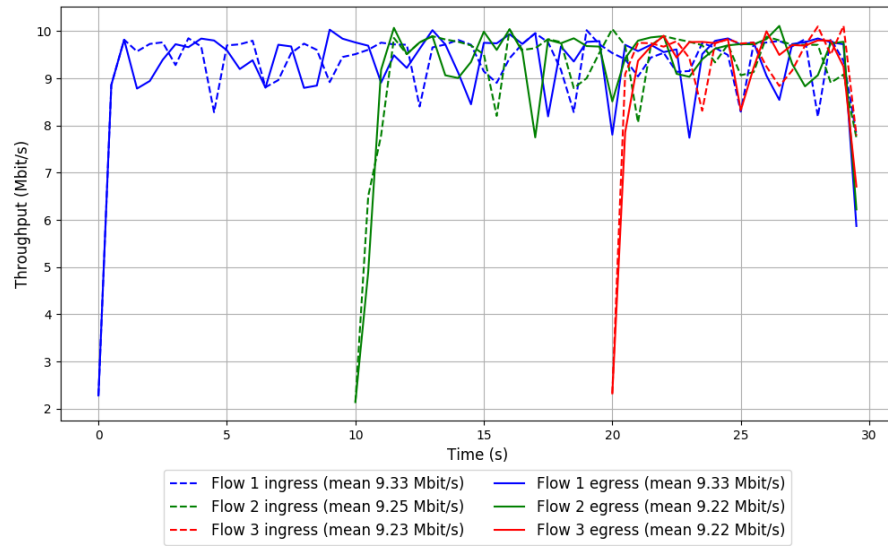


Run 4: Statistics of Sprout

Start at: 2017-09-18 20:43:04
End at: 2017-09-18 20:43:34
Local clock offset: -2.571 ms
Remote clock offset: -1.246 ms

Below is generated by plot.py at 2017-09-19 00:19:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.46 Mbit/s
95th percentile per-packet one-way delay: 46.288 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 9.33 Mbit/s
95th percentile per-packet one-way delay: 46.474 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 9.22 Mbit/s
95th percentile per-packet one-way delay: 46.172 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 9.22 Mbit/s
95th percentile per-packet one-way delay: 45.969 ms
Loss rate: 1.07%

Run 4: Report of Sprout — Data Link

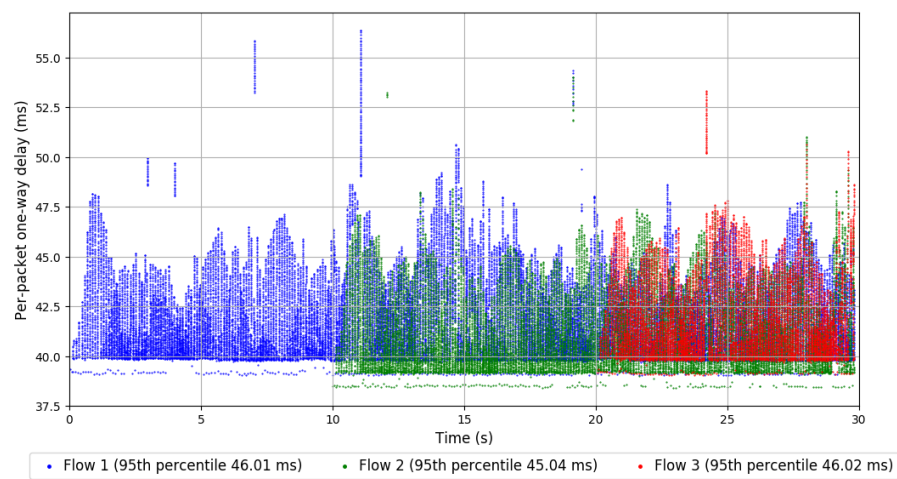
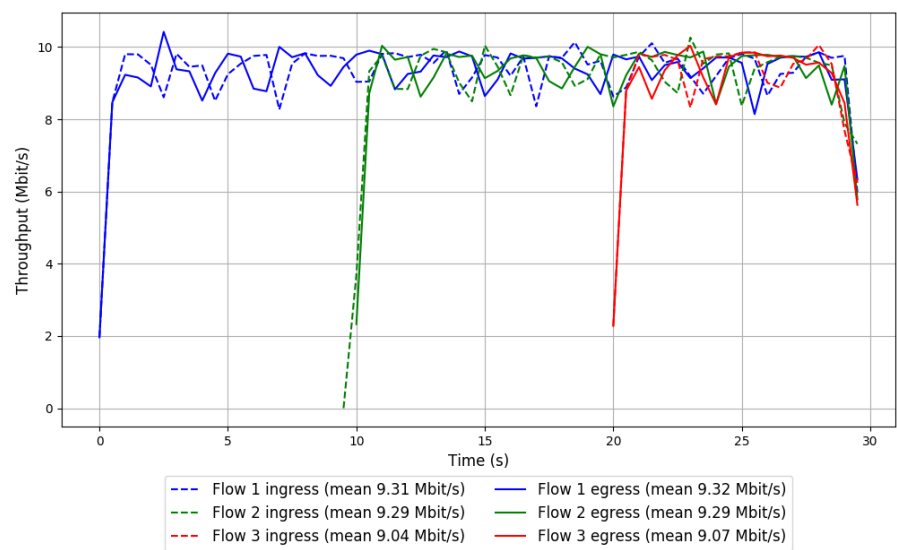


Run 5: Statistics of Sprout

Start at: 2017-09-18 20:55:42
End at: 2017-09-18 20:56:12
Local clock offset: -4.18 ms
Remote clock offset: -1.243 ms

Below is generated by plot.py at 2017-09-19 00:19:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.46 Mbit/s
95th percentile per-packet one-way delay: 45.729 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 9.32 Mbit/s
95th percentile per-packet one-way delay: 46.011 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 9.29 Mbit/s
95th percentile per-packet one-way delay: 45.040 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 9.07 Mbit/s
95th percentile per-packet one-way delay: 46.025 ms
Loss rate: 0.52%

Run 5: Report of Sprout — Data Link

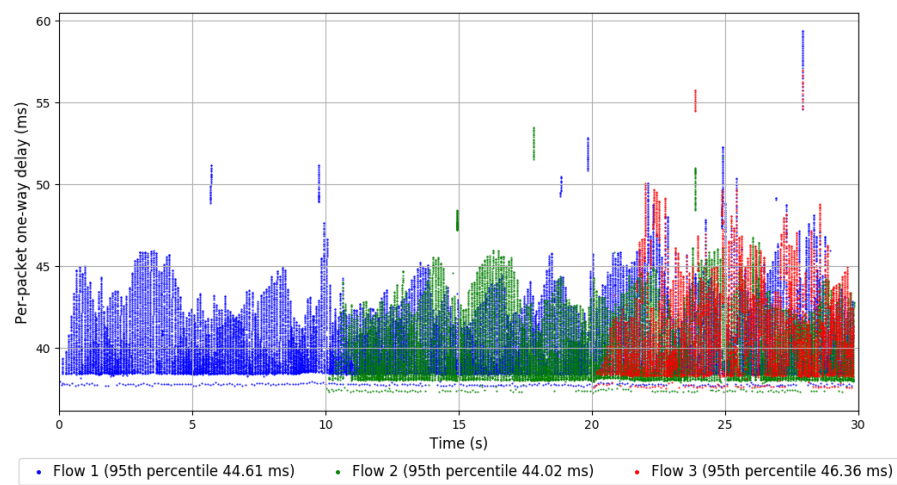
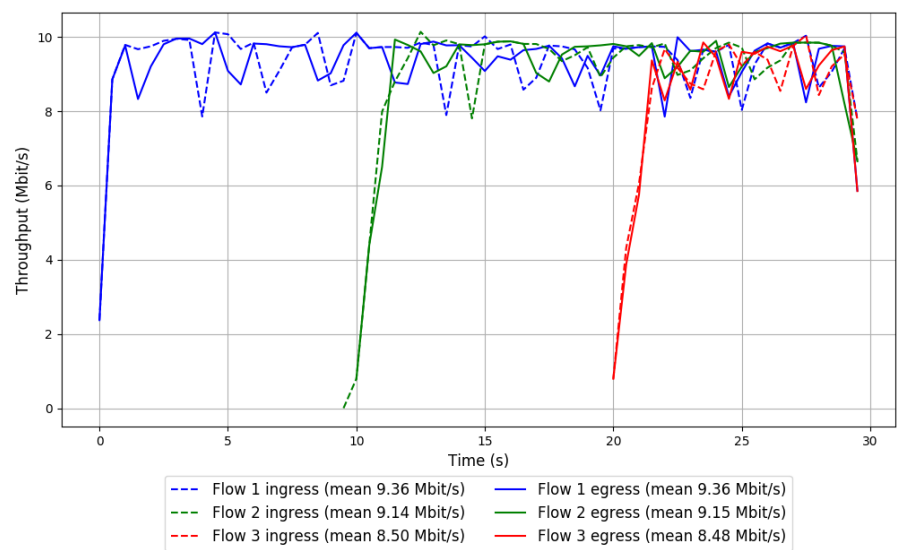


Run 6: Statistics of Sprout

Start at: 2017-09-18 21:08:09
End at: 2017-09-18 21:08:39
Local clock offset: -6.121 ms
Remote clock offset: -1.235 ms

Below is generated by plot.py at 2017-09-19 00:19:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.20 Mbit/s
95th percentile per-packet one-way delay: 44.762 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 9.36 Mbit/s
95th percentile per-packet one-way delay: 44.612 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 9.15 Mbit/s
95th percentile per-packet one-way delay: 44.022 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 8.48 Mbit/s
95th percentile per-packet one-way delay: 46.360 ms
Loss rate: 1.15%

Run 6: Report of Sprout — Data Link

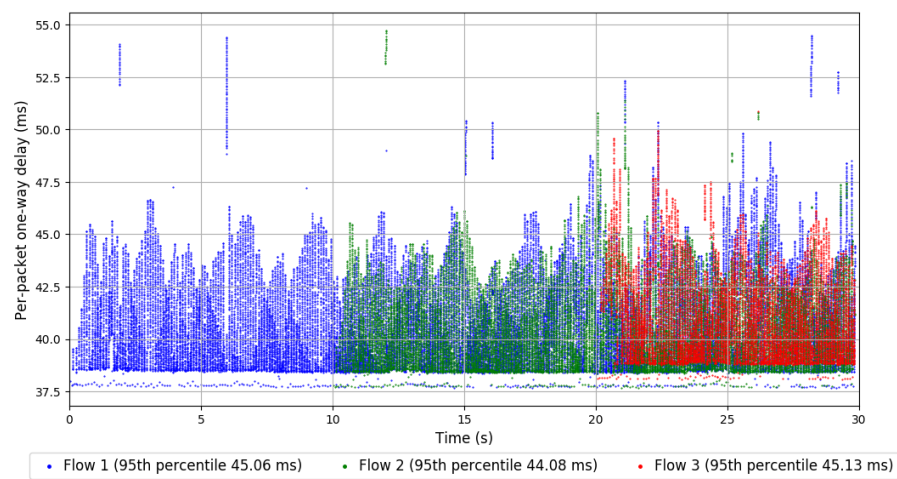
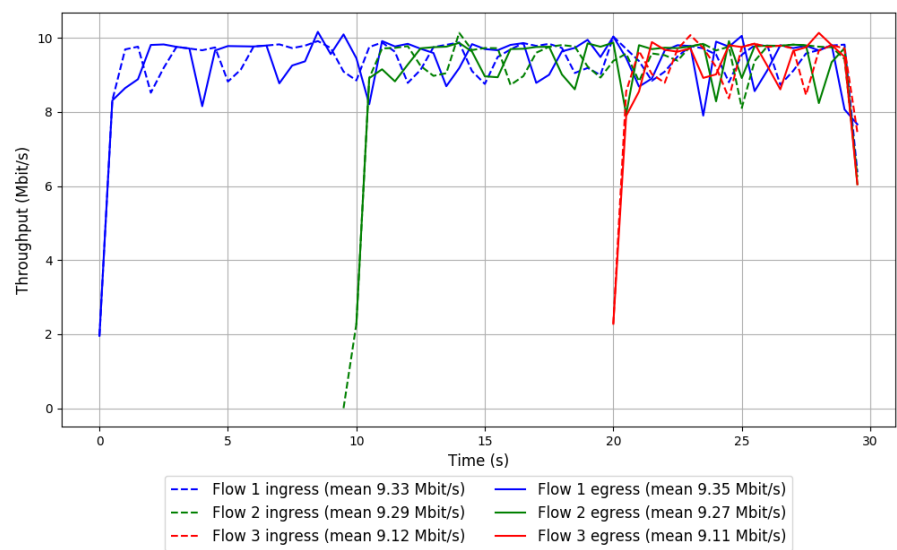


Run 7: Statistics of Sprout

Start at: 2017-09-18 21:20:40
End at: 2017-09-18 21:21:10
Local clock offset: -4.705 ms
Remote clock offset: -1.273 ms

Below is generated by plot.py at 2017-09-19 00:19:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.49 Mbit/s
95th percentile per-packet one-way delay: 44.784 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 9.35 Mbit/s
95th percentile per-packet one-way delay: 45.064 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 9.27 Mbit/s
95th percentile per-packet one-way delay: 44.078 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 9.11 Mbit/s
95th percentile per-packet one-way delay: 45.133 ms
Loss rate: 0.91%

Run 7: Report of Sprout — Data Link

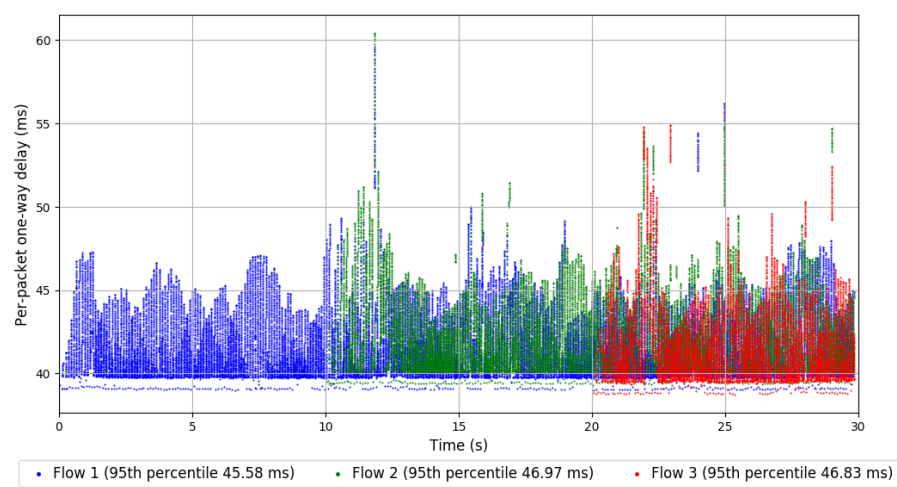
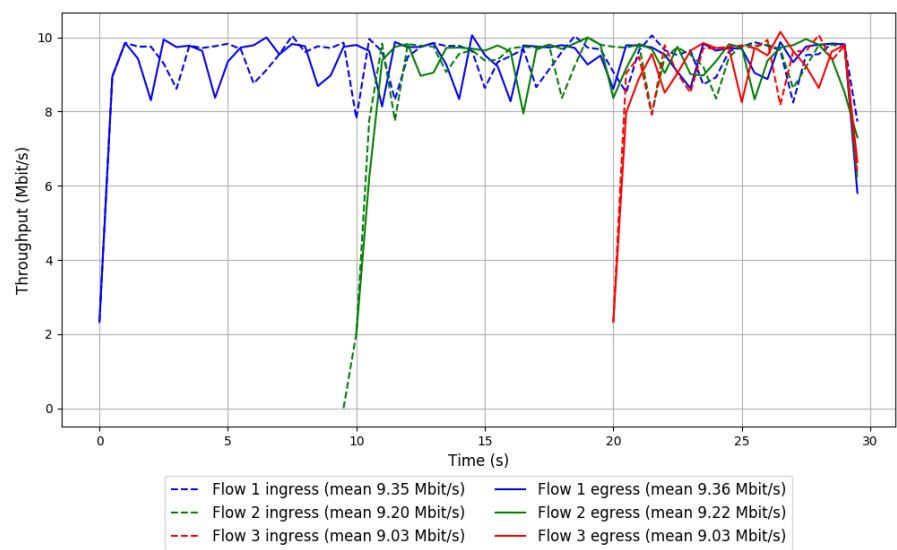


Run 8: Statistics of Sprout

Start at: 2017-09-18 21:33:13
End at: 2017-09-18 21:33:43
Local clock offset: -5.265 ms
Remote clock offset: -1.188 ms

Below is generated by plot.py at 2017-09-19 00:19:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.43 Mbit/s
95th percentile per-packet one-way delay: 46.250 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 9.36 Mbit/s
95th percentile per-packet one-way delay: 45.584 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 9.22 Mbit/s
95th percentile per-packet one-way delay: 46.970 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 9.03 Mbit/s
95th percentile per-packet one-way delay: 46.829 ms
Loss rate: 0.70%

Run 8: Report of Sprout — Data Link

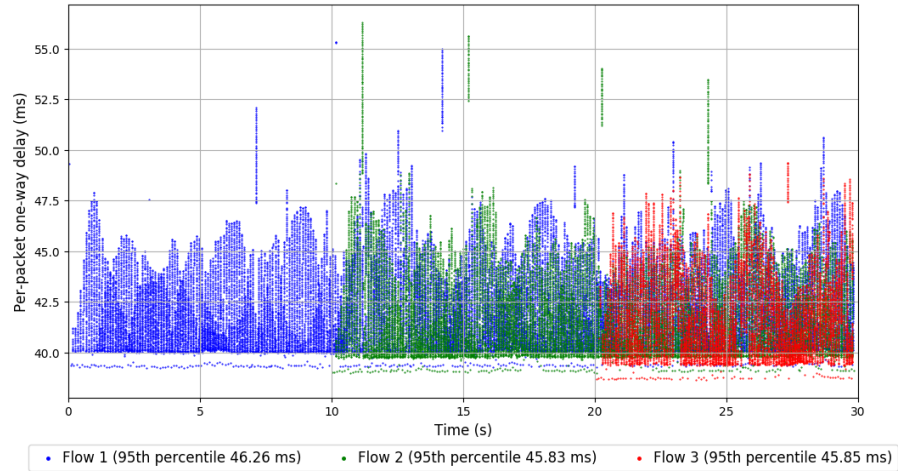
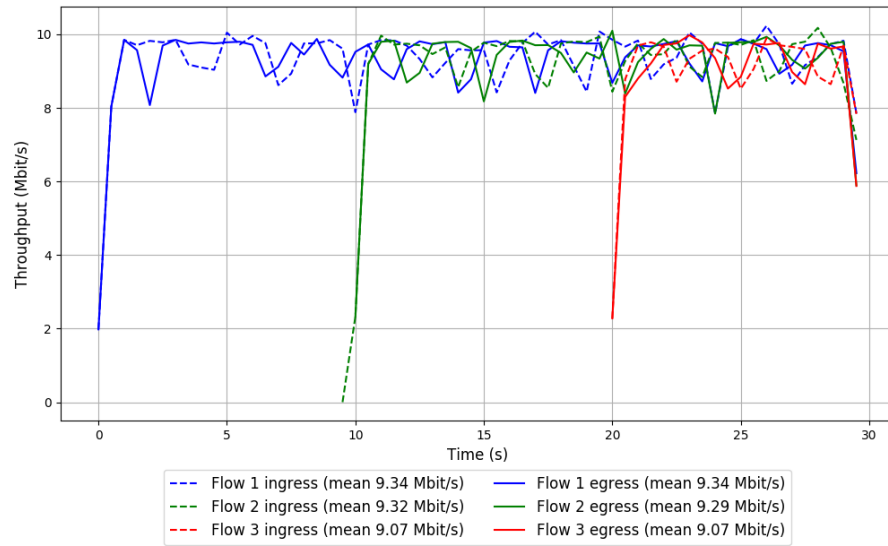


Run 9: Statistics of Sprout

Start at: 2017-09-18 21:45:46
End at: 2017-09-18 21:46:16
Local clock offset: -6.424 ms
Remote clock offset: -1.103 ms

Below is generated by plot.py at 2017-09-19 00:19:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.47 Mbit/s
95th percentile per-packet one-way delay: 46.073 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 9.34 Mbit/s
95th percentile per-packet one-way delay: 46.264 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 9.29 Mbit/s
95th percentile per-packet one-way delay: 45.833 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 9.07 Mbit/s
95th percentile per-packet one-way delay: 45.851 ms
Loss rate: 1.11%

Run 9: Report of Sprout — Data Link

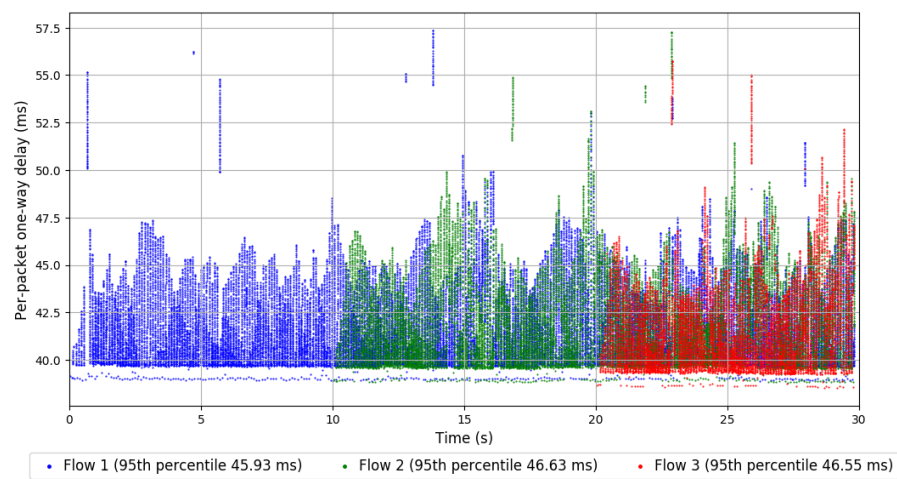
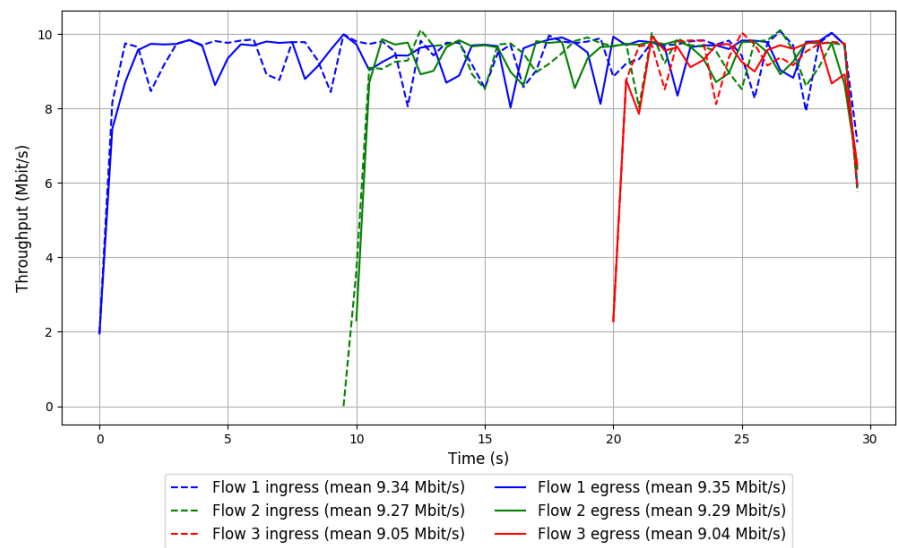


Run 10: Statistics of Sprout

Start at: 2017-09-18 21:58:23
End at: 2017-09-18 21:58:53
Local clock offset: -4.922 ms
Remote clock offset: -1.023 ms

Below is generated by plot.py at 2017-09-19 00:19:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.49 Mbit/s
95th percentile per-packet one-way delay: 46.263 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 9.35 Mbit/s
95th percentile per-packet one-way delay: 45.931 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 9.29 Mbit/s
95th percentile per-packet one-way delay: 46.630 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 9.04 Mbit/s
95th percentile per-packet one-way delay: 46.551 ms
Loss rate: 0.77%

Run 10: Report of Sprout — Data Link

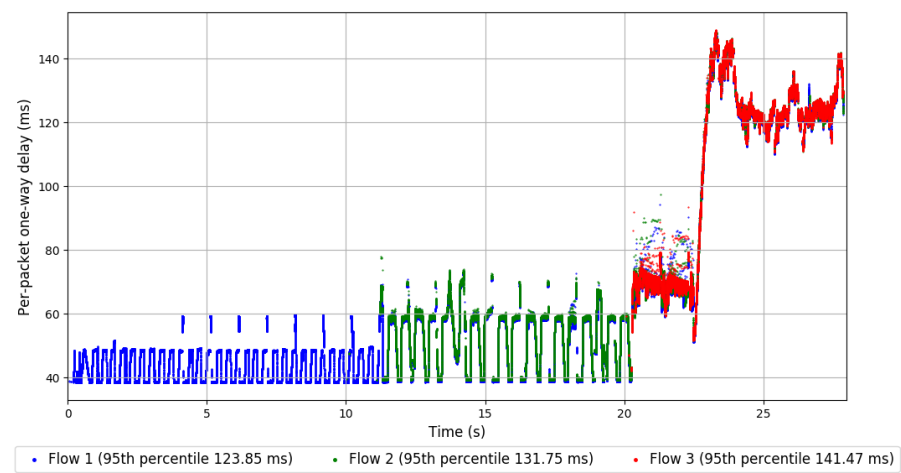
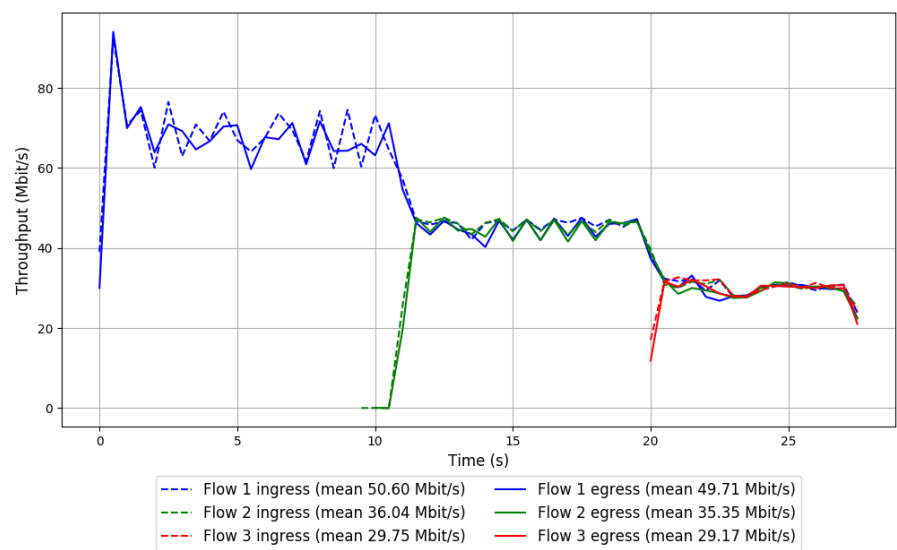


Run 1: Statistics of TaoVA-100x

Start at: 2017-09-18 20:01:19
End at: 2017-09-18 20:01:49
Local clock offset: -13.283 ms
Remote clock offset: -1.216 ms

Below is generated by plot.py at 2017-09-19 00:21:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.55 Mbit/s
95th percentile per-packet one-way delay: 130.155 ms
Loss rate: 2.27%
-- Flow 1:
Average throughput: 49.71 Mbit/s
95th percentile per-packet one-way delay: 123.850 ms
Loss rate: 2.05%
-- Flow 2:
Average throughput: 35.35 Mbit/s
95th percentile per-packet one-way delay: 131.749 ms
Loss rate: 2.39%
-- Flow 3:
Average throughput: 29.17 Mbit/s
95th percentile per-packet one-way delay: 141.470 ms
Loss rate: 3.30%

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

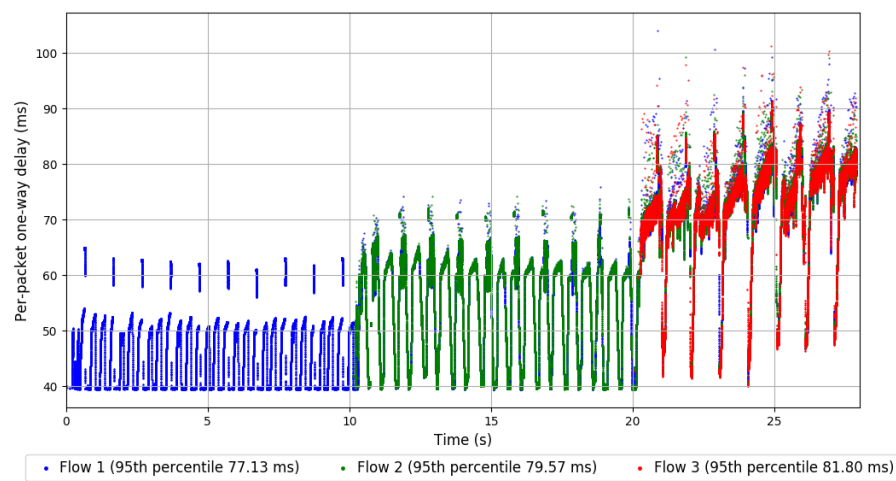
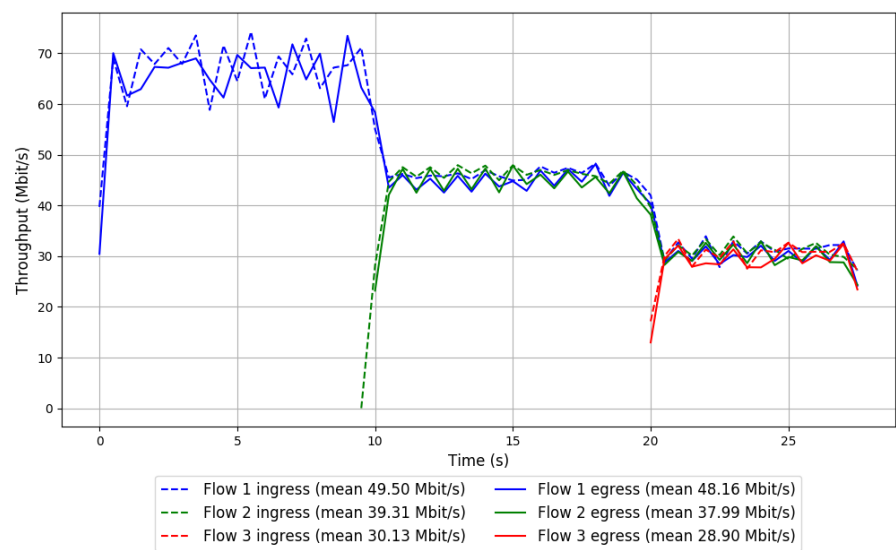


Run 2: Statistics of TaoVA-100x

Start at: 2017-09-18 20:14:11
End at: 2017-09-18 20:14:41
Local clock offset: -26.618 ms
Remote clock offset: -1.138 ms

Below is generated by plot.py at 2017-09-19 00:21:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.63 Mbit/s
95th percentile per-packet one-way delay: 79.143 ms
Loss rate: 3.49%
-- Flow 1:
Average throughput: 48.16 Mbit/s
95th percentile per-packet one-way delay: 77.128 ms
Loss rate: 3.01%
-- Flow 2:
Average throughput: 37.99 Mbit/s
95th percentile per-packet one-way delay: 79.570 ms
Loss rate: 3.88%
-- Flow 3:
Average throughput: 28.90 Mbit/s
95th percentile per-packet one-way delay: 81.800 ms
Loss rate: 5.12%

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

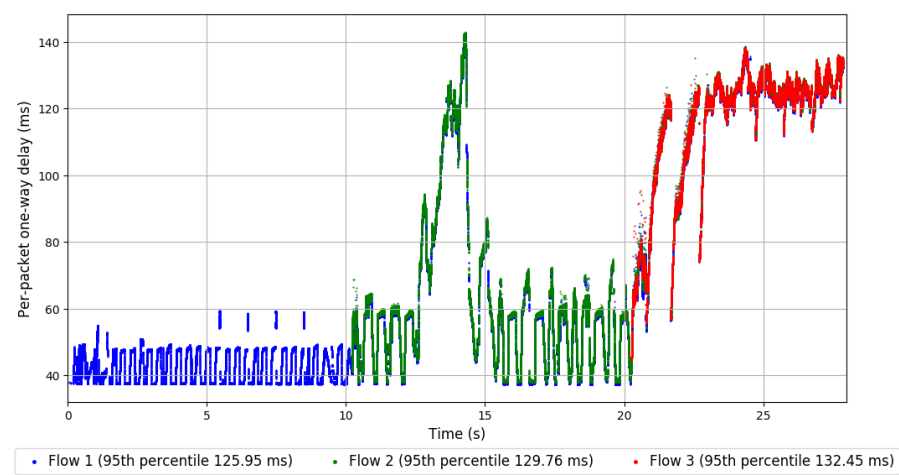
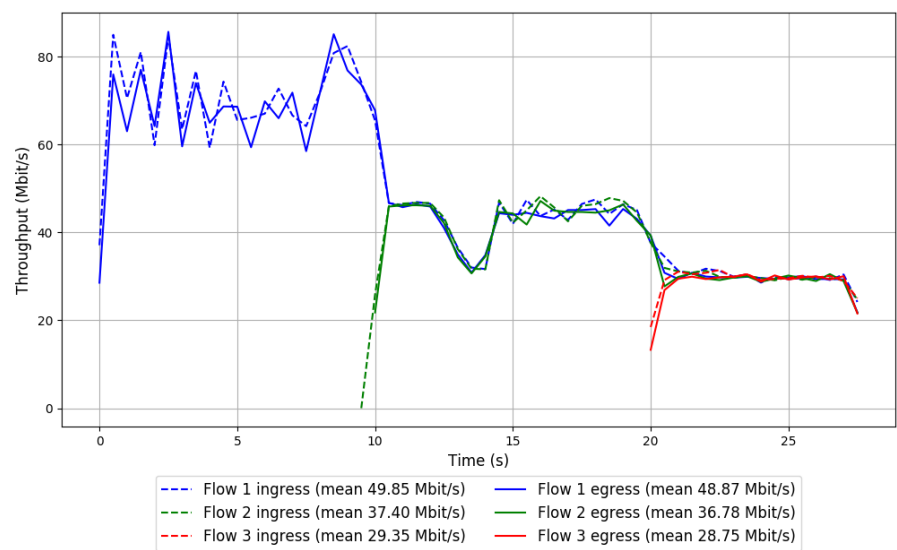


Run 3: Statistics of TaoVA-100x

Start at: 2017-09-18 20:26:43
End at: 2017-09-18 20:27:13
Local clock offset: -21.348 ms
Remote clock offset: -1.17 ms

Below is generated by plot.py at 2017-09-19 00:21:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.50 Mbit/s
95th percentile per-packet one-way delay: 128.687 ms
Loss rate: 2.35%
-- Flow 1:
Average throughput: 48.87 Mbit/s
95th percentile per-packet one-way delay: 125.952 ms
Loss rate: 2.27%
-- Flow 2:
Average throughput: 36.78 Mbit/s
95th percentile per-packet one-way delay: 129.758 ms
Loss rate: 2.15%
-- Flow 3:
Average throughput: 28.75 Mbit/s
95th percentile per-packet one-way delay: 132.451 ms
Loss rate: 3.40%

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

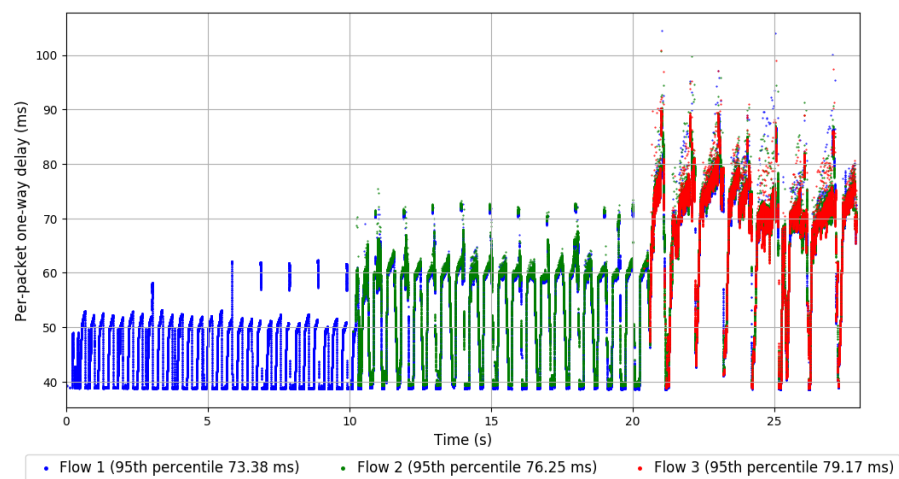
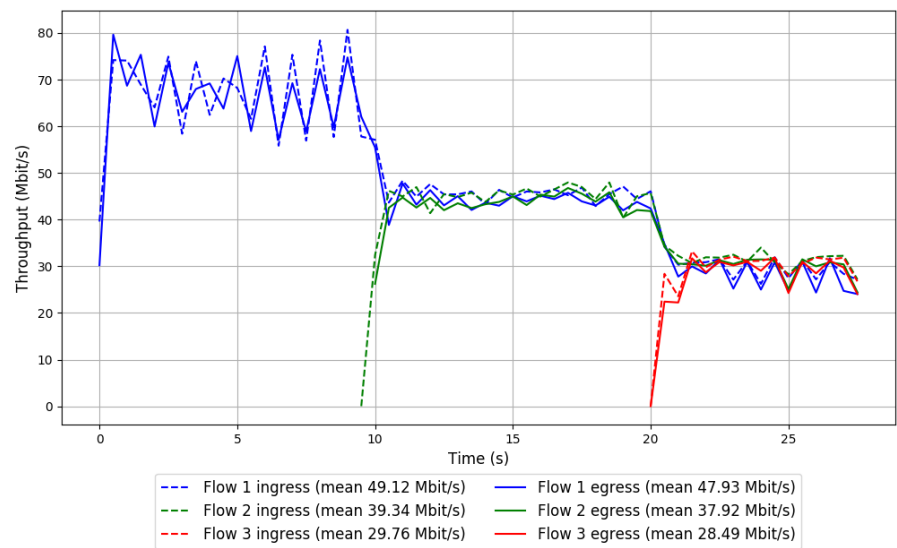


Run 4: Statistics of TaoVA-100x

Start at: 2017-09-18 20:39:19
End at: 2017-09-18 20:39:49
Local clock offset: -4.198 ms
Remote clock offset: -1.246 ms

Below is generated by plot.py at 2017-09-19 00:21:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.91 Mbit/s
95th percentile per-packet one-way delay: 75.603 ms
Loss rate: 3.48%
-- Flow 1:
Average throughput: 47.93 Mbit/s
95th percentile per-packet one-way delay: 73.384 ms
Loss rate: 2.78%
-- Flow 2:
Average throughput: 37.92 Mbit/s
95th percentile per-packet one-way delay: 76.251 ms
Loss rate: 4.11%
-- Flow 3:
Average throughput: 28.49 Mbit/s
95th percentile per-packet one-way delay: 79.168 ms
Loss rate: 5.78%

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

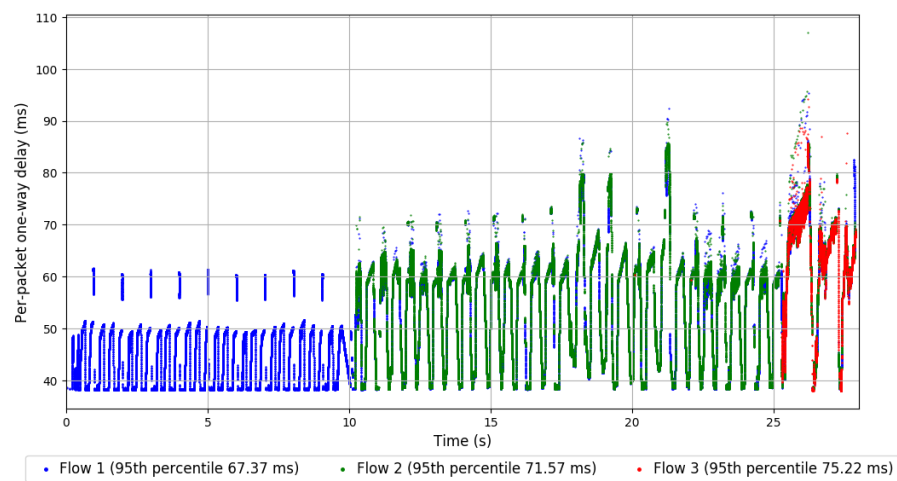
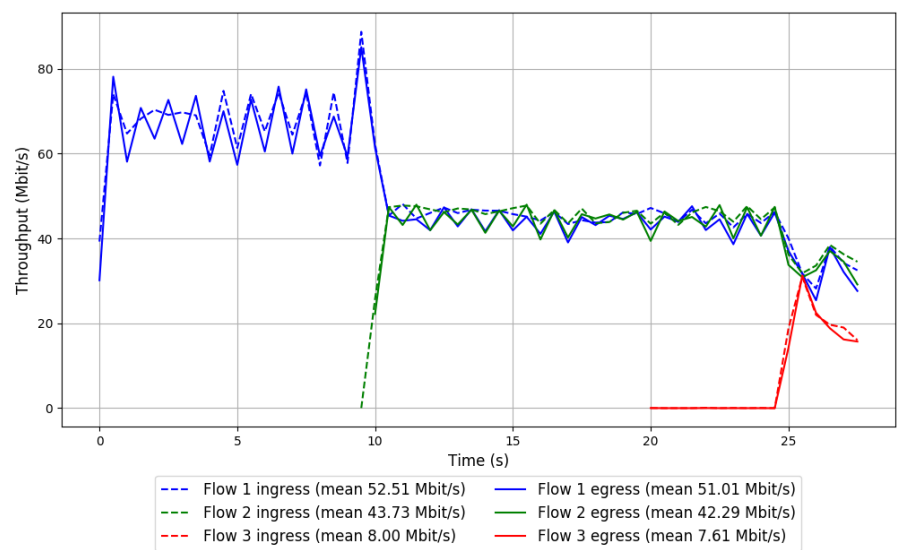


Run 5: Statistics of TaoVA-100x

Start at: 2017-09-18 20:51:51
End at: 2017-09-18 20:52:21
Local clock offset: -5.161 ms
Remote clock offset: -1.257 ms

Below is generated by plot.py at 2017-09-19 00:21:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.26 Mbit/s
95th percentile per-packet one-way delay: 70.502 ms
Loss rate: 3.52%
-- Flow 1:
Average throughput: 51.01 Mbit/s
95th percentile per-packet one-way delay: 67.367 ms
Loss rate: 3.22%
-- Flow 2:
Average throughput: 42.29 Mbit/s
95th percentile per-packet one-way delay: 71.568 ms
Loss rate: 3.85%
-- Flow 3:
Average throughput: 7.61 Mbit/s
95th percentile per-packet one-way delay: 75.220 ms
Loss rate: 6.20%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-09-18 21:04:25

End at: 2017-09-18 21:04:55

Local clock offset: -6.662 ms

Remote clock offset: -1.29 ms

Below is generated by plot.py at 2017-09-19 00:21:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.52 Mbit/s

95th percentile per-packet one-way delay: 123.520 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 16.87 Mbit/s

95th percentile per-packet one-way delay: 121.874 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 21.25 Mbit/s

95th percentile per-packet one-way delay: 129.113 ms

Loss rate: 0.53%

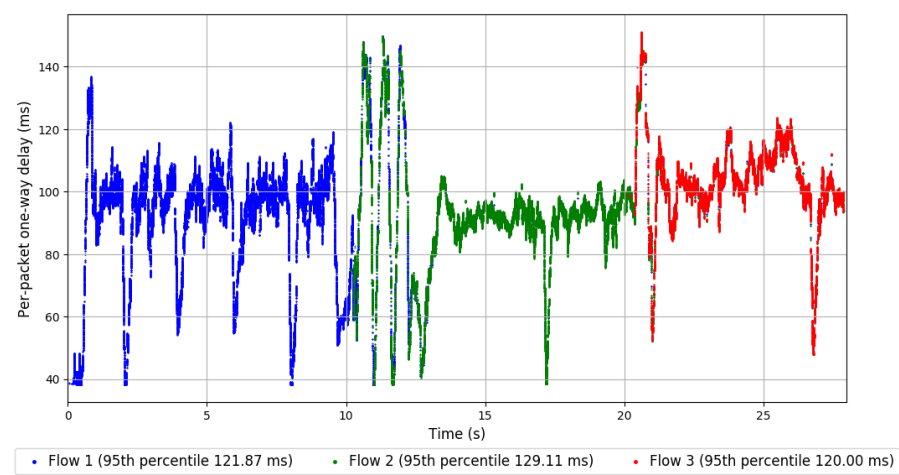
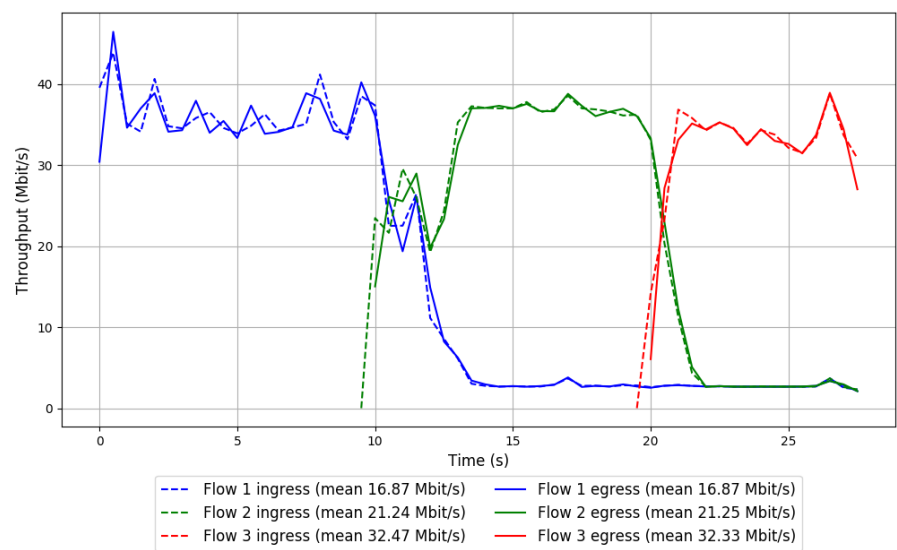
-- Flow 3:

Average throughput: 32.33 Mbit/s

95th percentile per-packet one-way delay: 120.003 ms

Loss rate: 2.27%

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

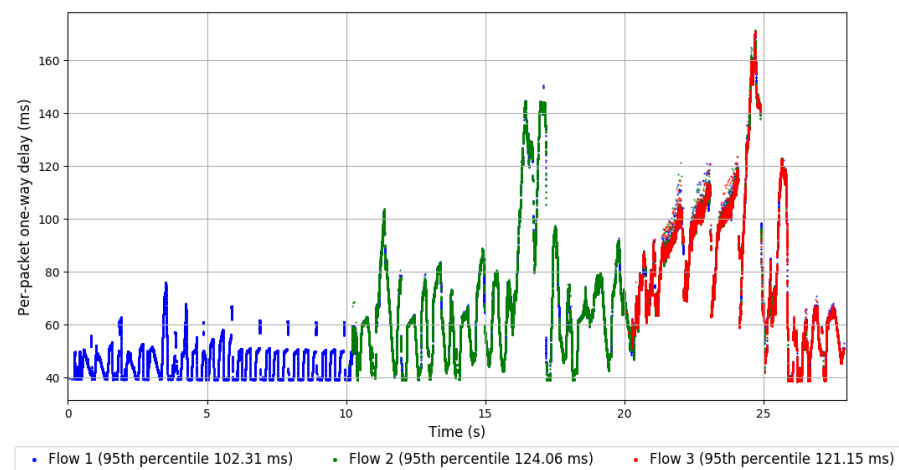
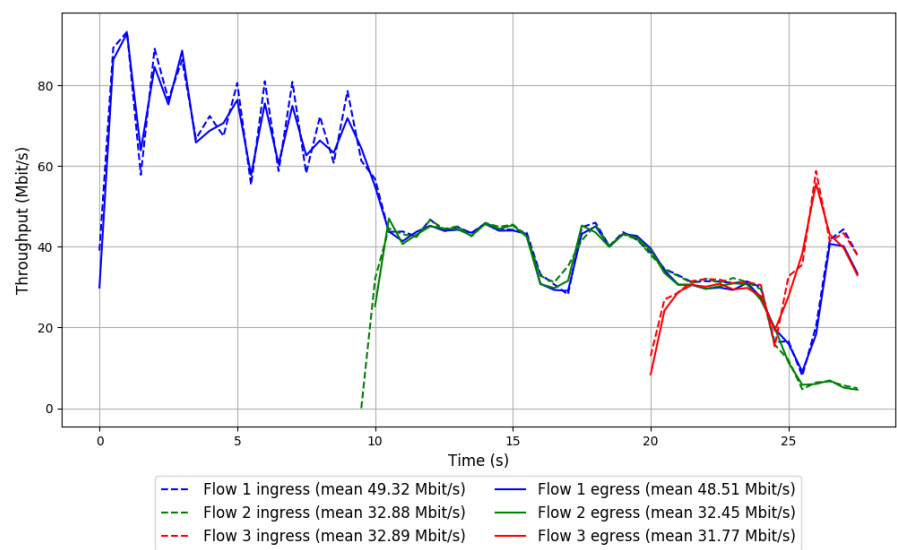


Run 7: Statistics of TaoVA-100x

Start at: 2017-09-18 21:16:54
End at: 2017-09-18 21:17:24
Local clock offset: -4.341 ms
Remote clock offset: -1.145 ms

Below is generated by plot.py at 2017-09-19 00:21:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.24 Mbit/s
95th percentile per-packet one-way delay: 110.362 ms
Loss rate: 2.27%
-- Flow 1:
Average throughput: 48.51 Mbit/s
95th percentile per-packet one-way delay: 102.308 ms
Loss rate: 1.99%
-- Flow 2:
Average throughput: 32.45 Mbit/s
95th percentile per-packet one-way delay: 124.057 ms
Loss rate: 1.78%
-- Flow 3:
Average throughput: 31.77 Mbit/s
95th percentile per-packet one-way delay: 121.148 ms
Loss rate: 4.82%

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

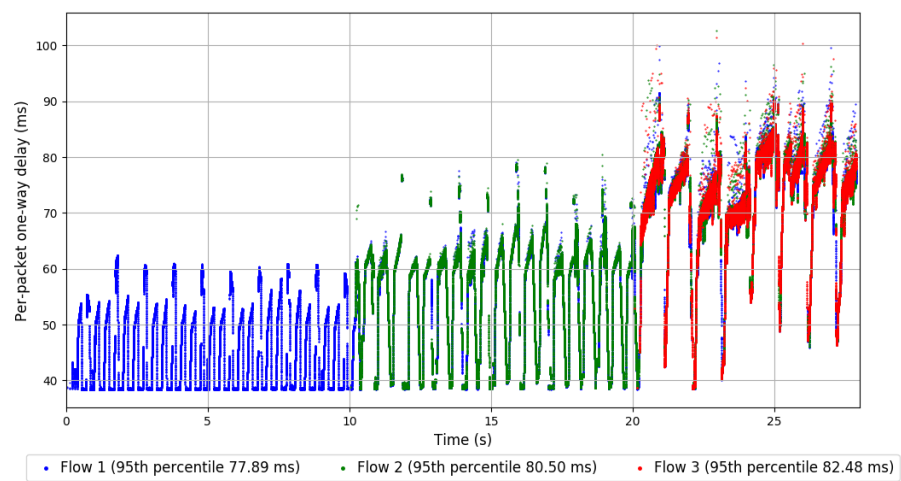
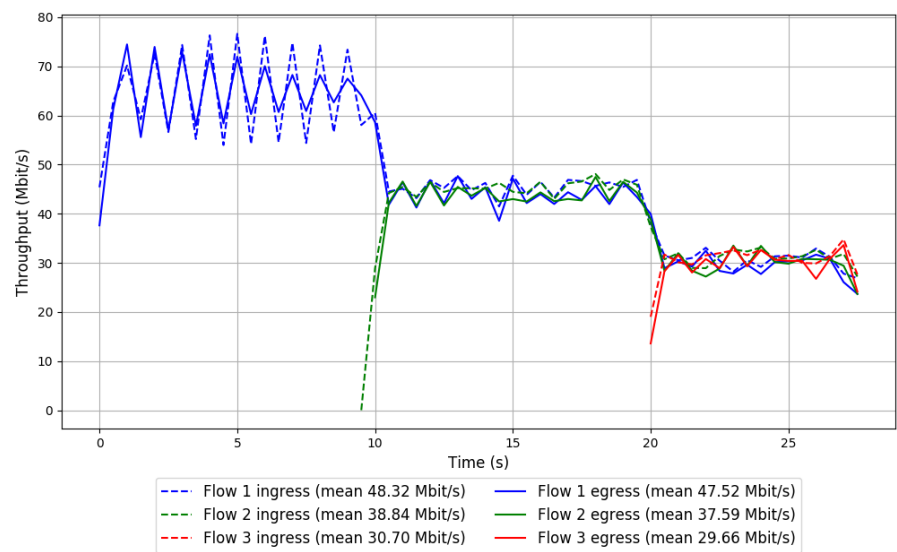


Run 8: Statistics of TaoVA-100x

Start at: 2017-09-18 21:29:26
End at: 2017-09-18 21:29:56
Local clock offset: -5.736 ms
Remote clock offset: -1.208 ms

Below is generated by plot.py at 2017-09-19 00:21:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.94 Mbit/s
95th percentile per-packet one-way delay: 80.045 ms
Loss rate: 2.84%
-- Flow 1:
Average throughput: 47.52 Mbit/s
95th percentile per-packet one-way delay: 77.894 ms
Loss rate: 2.02%
-- Flow 2:
Average throughput: 37.59 Mbit/s
95th percentile per-packet one-way delay: 80.501 ms
Loss rate: 3.72%
-- Flow 3:
Average throughput: 29.66 Mbit/s
95th percentile per-packet one-way delay: 82.482 ms
Loss rate: 4.86%

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

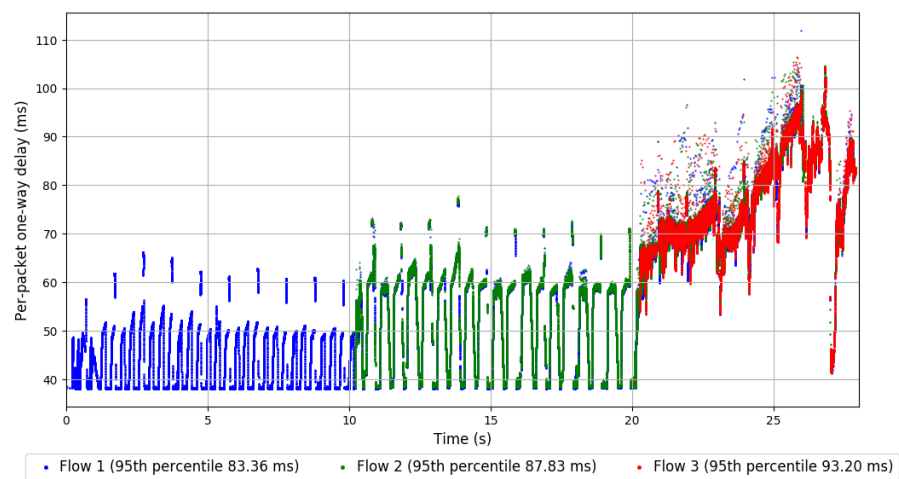
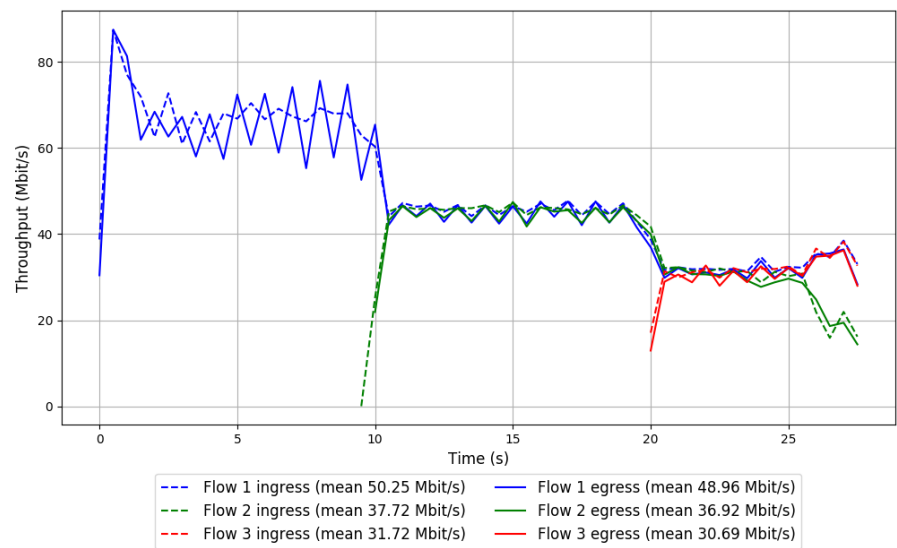


Run 9: Statistics of TaoVA-100x

Start at: 2017-09-18 21:41:59
End at: 2017-09-18 21:42:29
Local clock offset: -7.077 ms
Remote clock offset: -1.168 ms

Below is generated by plot.py at 2017-09-19 00:22:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.26 Mbit/s
95th percentile per-packet one-way delay: 87.895 ms
Loss rate: 3.01%
-- Flow 1:
Average throughput: 48.96 Mbit/s
95th percentile per-packet one-way delay: 83.359 ms
Loss rate: 2.90%
-- Flow 2:
Average throughput: 36.92 Mbit/s
95th percentile per-packet one-way delay: 87.832 ms
Loss rate: 2.70%
-- Flow 3:
Average throughput: 30.69 Mbit/s
95th percentile per-packet one-way delay: 93.201 ms
Loss rate: 4.42%

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

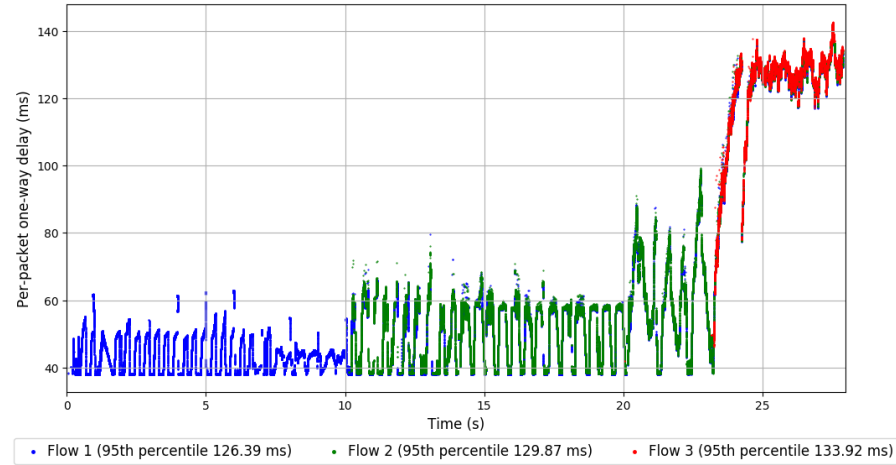
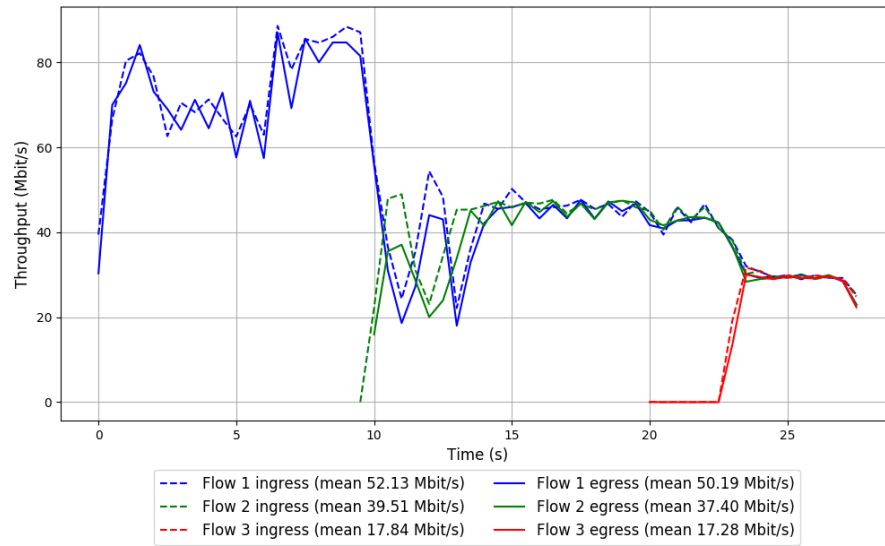


Run 10: Statistics of TaoVA-100x

Start at: 2017-09-18 21:54:34
End at: 2017-09-18 21:55:04
Local clock offset: -7.698 ms
Remote clock offset: -1.088 ms

Below is generated by plot.py at 2017-09-19 00:23:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.01 Mbit/s
95th percentile per-packet one-way delay: 129.637 ms
Loss rate: 4.60%
-- Flow 1:
Average throughput: 50.19 Mbit/s
95th percentile per-packet one-way delay: 126.387 ms
Loss rate: 4.03%
-- Flow 2:
Average throughput: 37.40 Mbit/s
95th percentile per-packet one-way delay: 129.872 ms
Loss rate: 5.85%
-- Flow 3:
Average throughput: 17.28 Mbit/s
95th percentile per-packet one-way delay: 133.921 ms
Loss rate: 4.25%

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

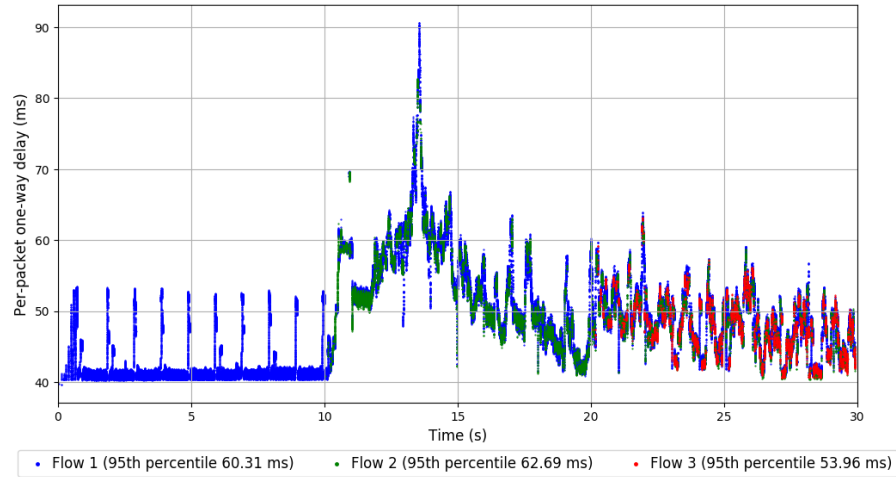
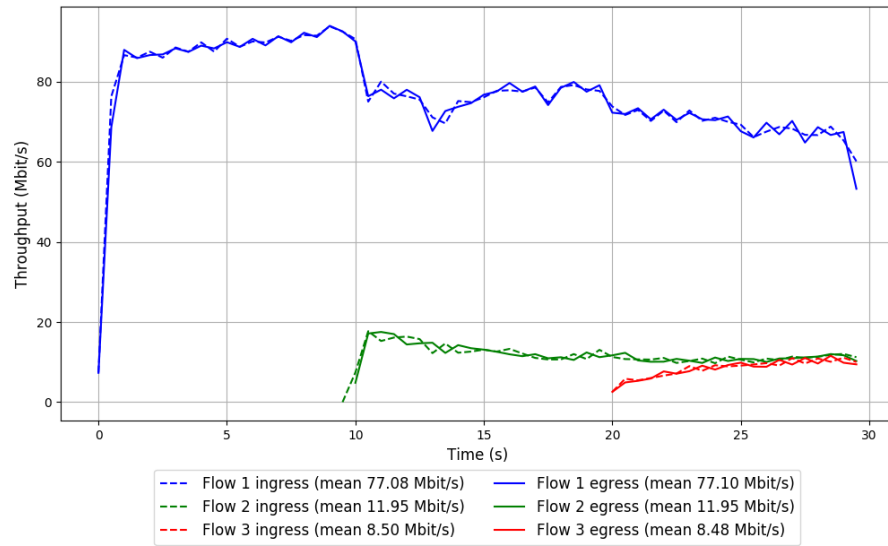


Run 1: Statistics of TCP Vegas

Start at: 2017-09-18 19:53:38
End at: 2017-09-18 19:54:08
Local clock offset: -9.339 ms
Remote clock offset: -1.174 ms

Below is generated by plot.py at 2017-09-19 00:23:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.84 Mbit/s
95th percentile per-packet one-way delay: 60.538 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 77.10 Mbit/s
95th percentile per-packet one-way delay: 60.307 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 11.95 Mbit/s
95th percentile per-packet one-way delay: 62.693 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 8.48 Mbit/s
95th percentile per-packet one-way delay: 53.963 ms
Loss rate: 1.18%

Run 1: Report of TCP Vegas — Data Link

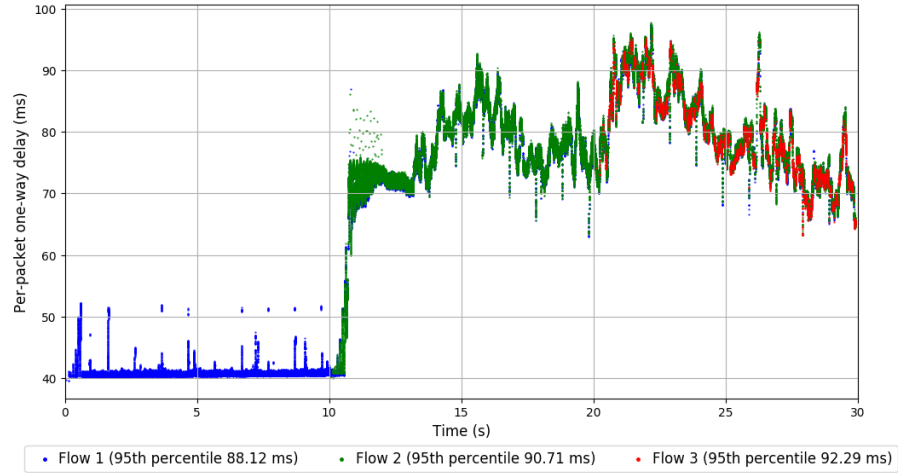
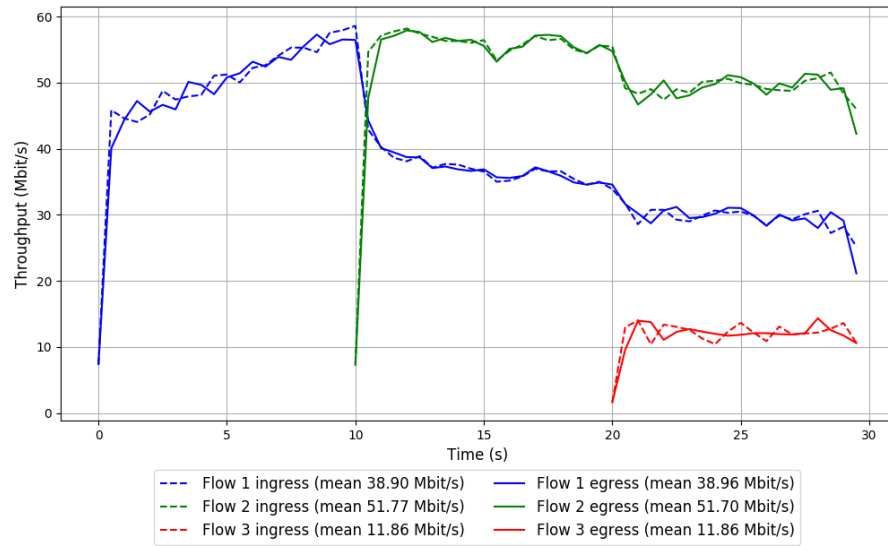


Run 2: Statistics of TCP Vegas

Start at: 2017-09-18 20:06:26
End at: 2017-09-18 20:06:56
Local clock offset: -16.726 ms
Remote clock offset: -1.177 ms

Below is generated by plot.py at 2017-09-19 00:23:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.18 Mbit/s
95th percentile per-packet one-way delay: 89.996 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 38.96 Mbit/s
95th percentile per-packet one-way delay: 88.116 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 51.70 Mbit/s
95th percentile per-packet one-way delay: 90.711 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 11.86 Mbit/s
95th percentile per-packet one-way delay: 92.292 ms
Loss rate: 1.20%

Run 2: Report of TCP Vegas — Data Link

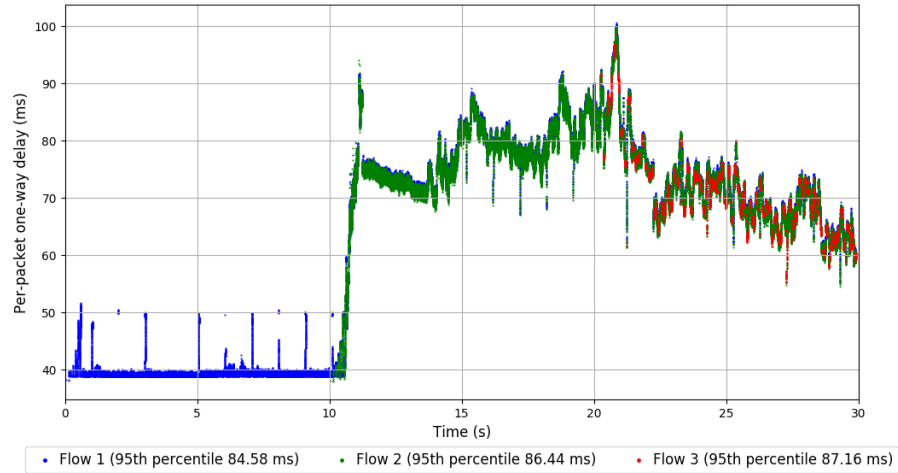
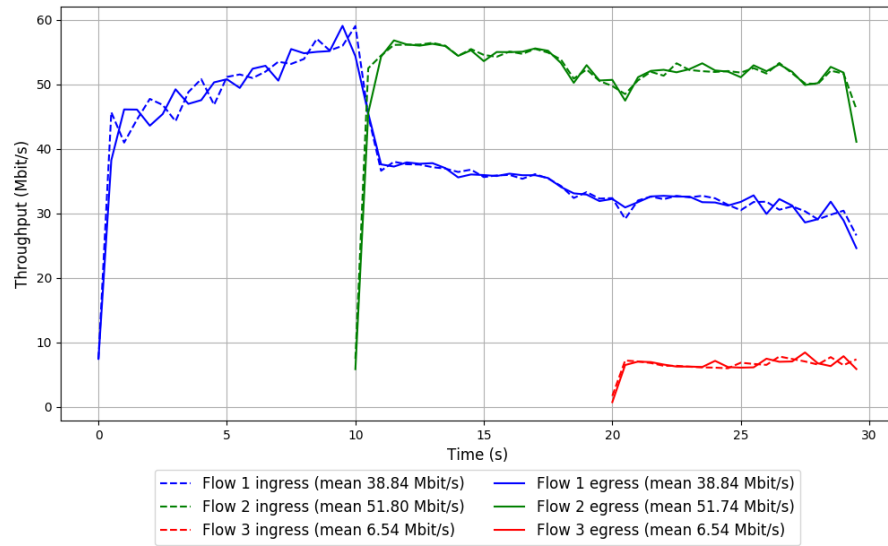


Run 3: Statistics of TCP Vegas

Start at: 2017-09-18 20:19:09
End at: 2017-09-18 20:19:39
Local clock offset: -28.495 ms
Remote clock offset: -1.025 ms

Below is generated by plot.py at 2017-09-19 00:23:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.37 Mbit/s
95th percentile per-packet one-way delay: 85.789 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 38.84 Mbit/s
95th percentile per-packet one-way delay: 84.582 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 51.74 Mbit/s
95th percentile per-packet one-way delay: 86.444 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 6.54 Mbit/s
95th percentile per-packet one-way delay: 87.164 ms
Loss rate: 1.24%

Run 3: Report of TCP Vegas — Data Link

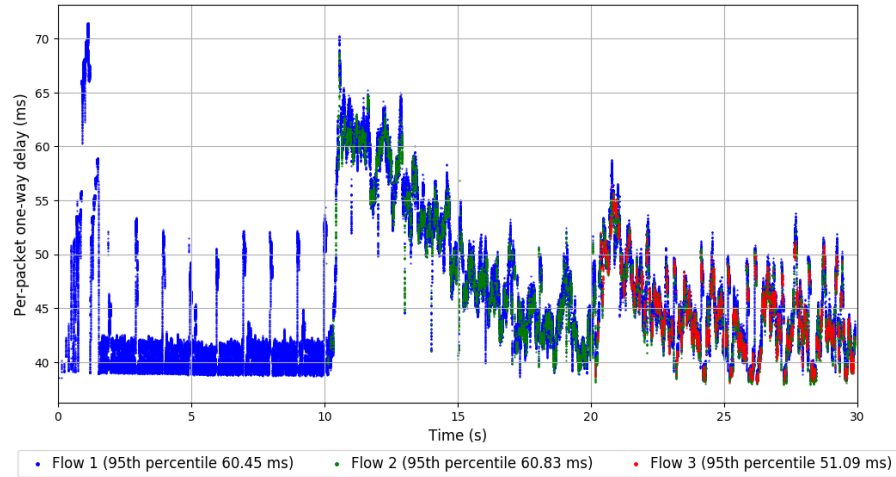
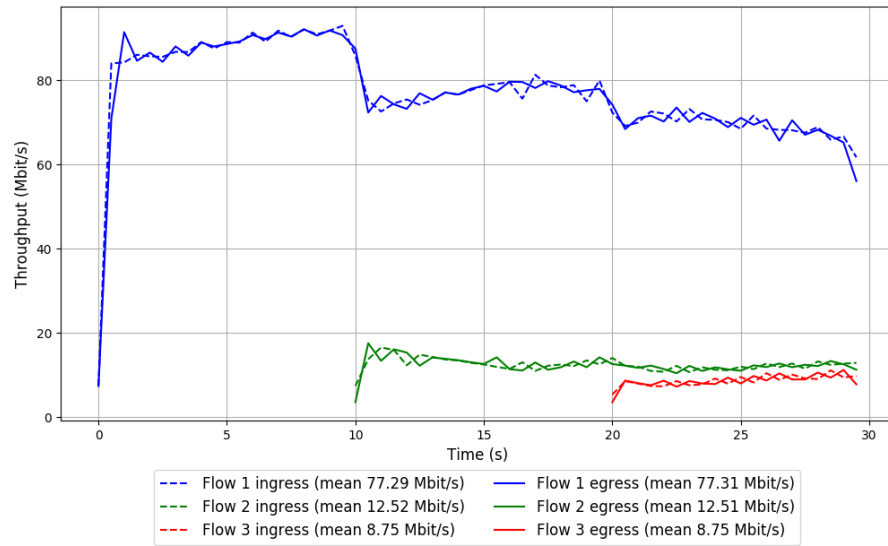


Run 4: Statistics of TCP Vegas

Start at: 2017-09-18 20:31:42
End at: 2017-09-18 20:32:12
Local clock offset: -9.518 ms
Remote clock offset: -1.145 ms

Below is generated by plot.py at 2017-09-19 00:23:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.51 Mbit/s
95th percentile per-packet one-way delay: 60.443 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 77.31 Mbit/s
95th percentile per-packet one-way delay: 60.452 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 12.51 Mbit/s
95th percentile per-packet one-way delay: 60.831 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 8.75 Mbit/s
95th percentile per-packet one-way delay: 51.093 ms
Loss rate: 1.15%

Run 4: Report of TCP Vegas — Data Link

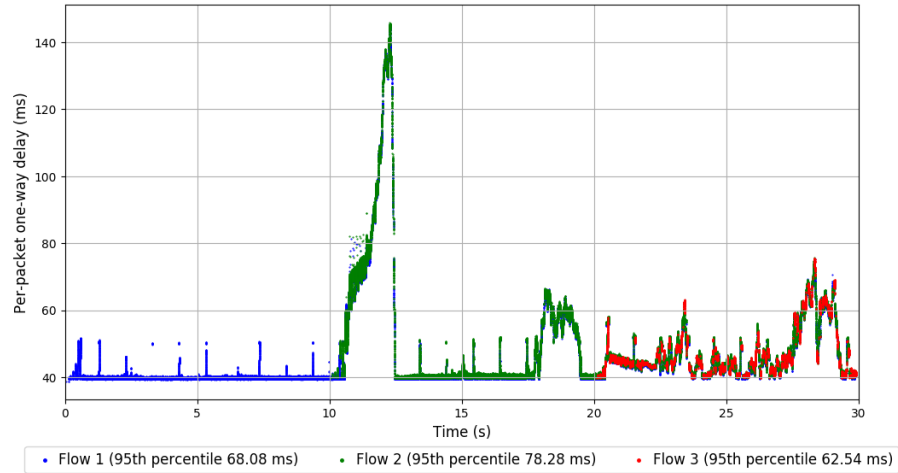
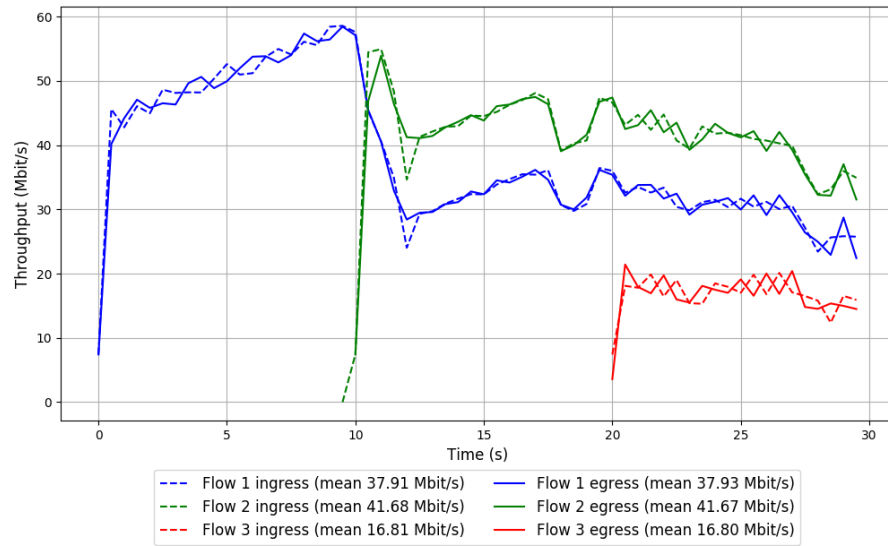


Run 5: Statistics of TCP Vegas

Start at: 2017-09-18 20:44:16
End at: 2017-09-18 20:44:46
Local clock offset: -2.485 ms
Remote clock offset: -1.214 ms

Below is generated by plot.py at 2017-09-19 00:23:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 71.18 Mbit/s
95th percentile per-packet one-way delay: 70.952 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 37.93 Mbit/s
95th percentile per-packet one-way delay: 68.081 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 41.67 Mbit/s
95th percentile per-packet one-way delay: 78.281 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 16.80 Mbit/s
95th percentile per-packet one-way delay: 62.539 ms
Loss rate: 0.91%

Run 5: Report of TCP Vegas — Data Link

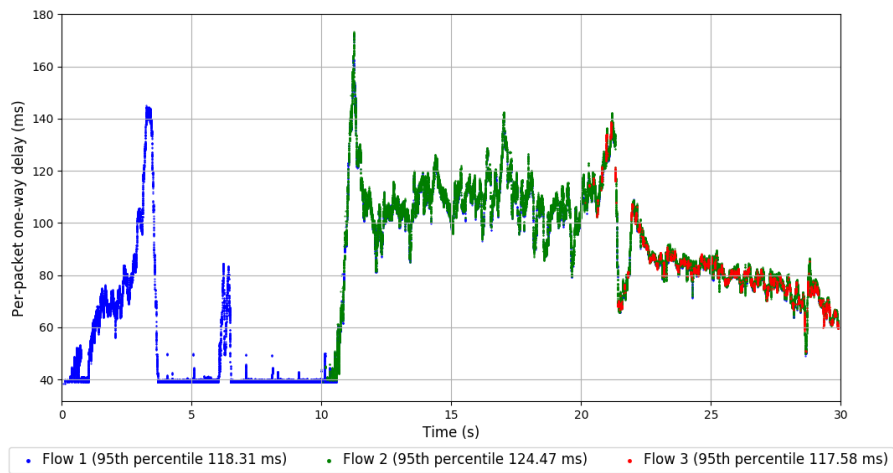
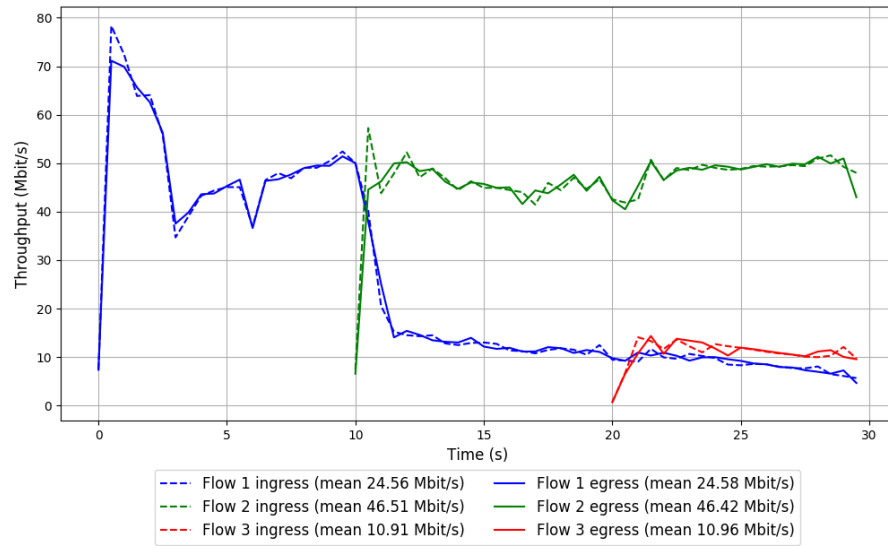


Run 6: Statistics of TCP Vegas

Start at: 2017-09-18 20:56:54
End at: 2017-09-18 20:57:24
Local clock offset: -4.121 ms
Remote clock offset: -1.186 ms

Below is generated by plot.py at 2017-09-19 00:23:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 59.01 Mbit/s
95th percentile per-packet one-way delay: 122.650 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 24.58 Mbit/s
95th percentile per-packet one-way delay: 118.308 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 46.42 Mbit/s
95th percentile per-packet one-way delay: 124.475 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 10.96 Mbit/s
95th percentile per-packet one-way delay: 117.576 ms
Loss rate: 1.09%

Run 6: Report of TCP Vegas — Data Link

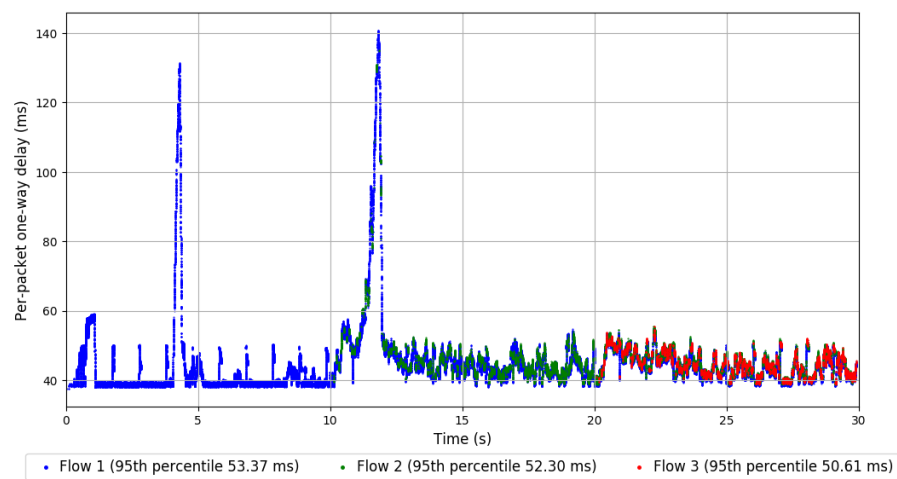
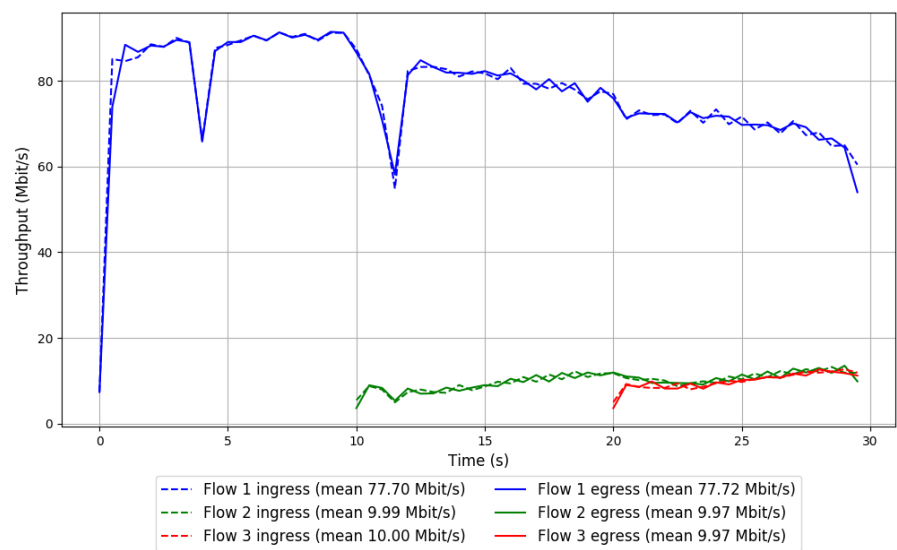


Run 7: Statistics of TCP Vegas

Start at: 2017-09-18 21:09:20
End at: 2017-09-18 21:09:50
Local clock offset: -5.862 ms
Remote clock offset: -1.213 ms

Below is generated by plot.py at 2017-09-19 00:23:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.62 Mbit/s
95th percentile per-packet one-way delay: 53.052 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 77.72 Mbit/s
95th percentile per-packet one-way delay: 53.373 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 9.97 Mbit/s
95th percentile per-packet one-way delay: 52.305 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 9.97 Mbit/s
95th percentile per-packet one-way delay: 50.614 ms
Loss rate: 1.21%

Run 7: Report of TCP Vegas — Data Link

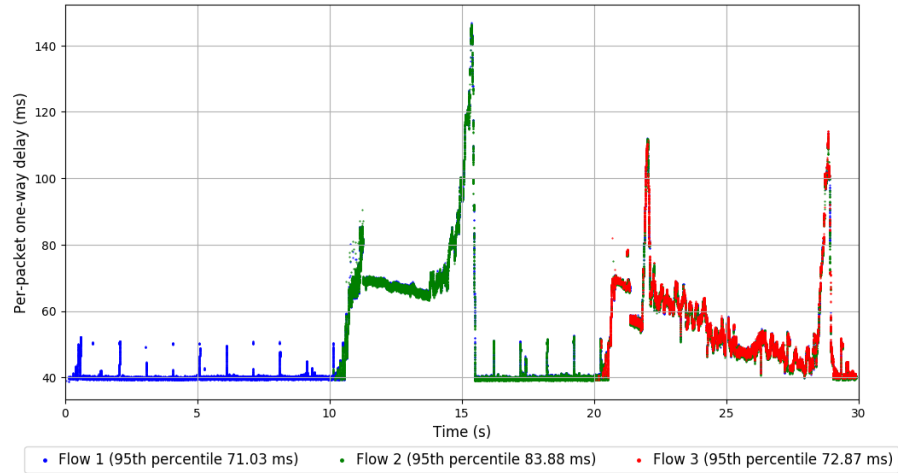
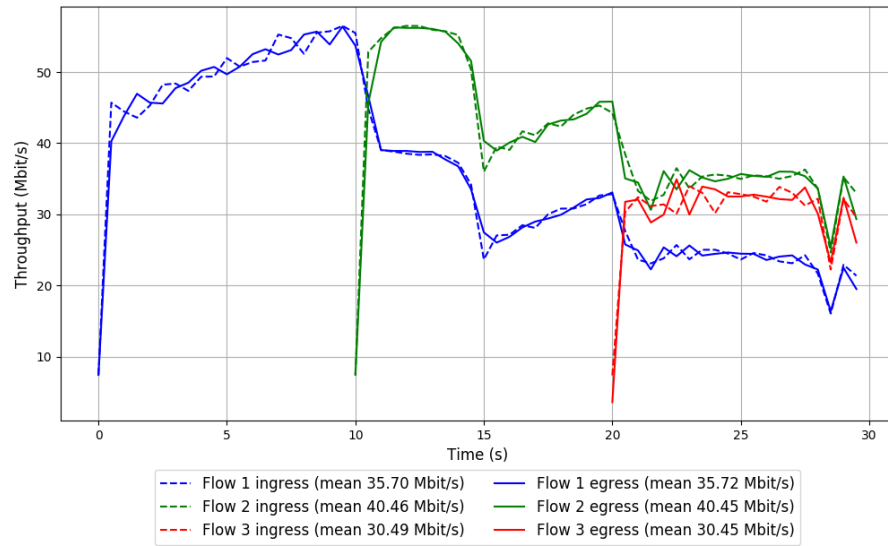


Run 8: Statistics of TCP Vegas

Start at: 2017-09-18 21:21:52
End at: 2017-09-18 21:22:22
Local clock offset: -3.483 ms
Remote clock offset: -1.146 ms

Below is generated by plot.py at 2017-09-19 00:23:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.63 Mbit/s
95th percentile per-packet one-way delay: 78.702 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 35.72 Mbit/s
95th percentile per-packet one-way delay: 71.025 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 40.45 Mbit/s
95th percentile per-packet one-way delay: 83.877 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 30.45 Mbit/s
95th percentile per-packet one-way delay: 72.870 ms
Loss rate: 0.98%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-09-18 21:34:24

End at: 2017-09-18 21:34:54

Local clock offset: -6.542 ms

Remote clock offset: -1.18 ms

Below is generated by plot.py at 2017-09-19 00:23:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.39 Mbit/s

95th percentile per-packet one-way delay: 99.945 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 38.84 Mbit/s

95th percentile per-packet one-way delay: 96.060 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 41.70 Mbit/s

95th percentile per-packet one-way delay: 103.949 ms

Loss rate: 0.55%

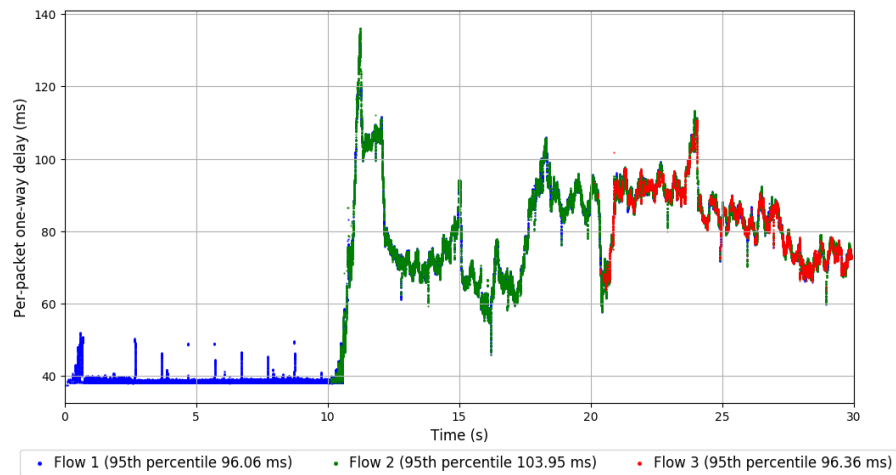
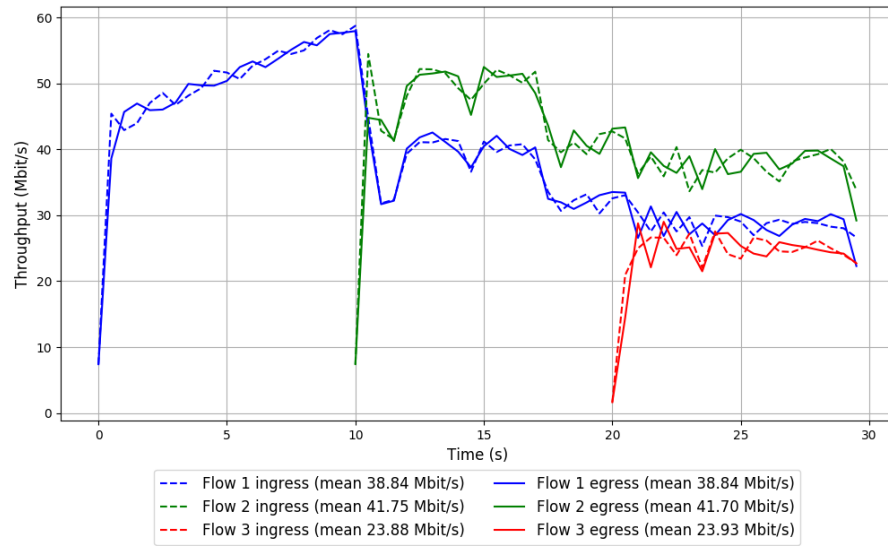
-- Flow 3:

Average throughput: 23.93 Mbit/s

95th percentile per-packet one-way delay: 96.362 ms

Loss rate: 1.24%

Run 9: Report of TCP Vegas — Data Link

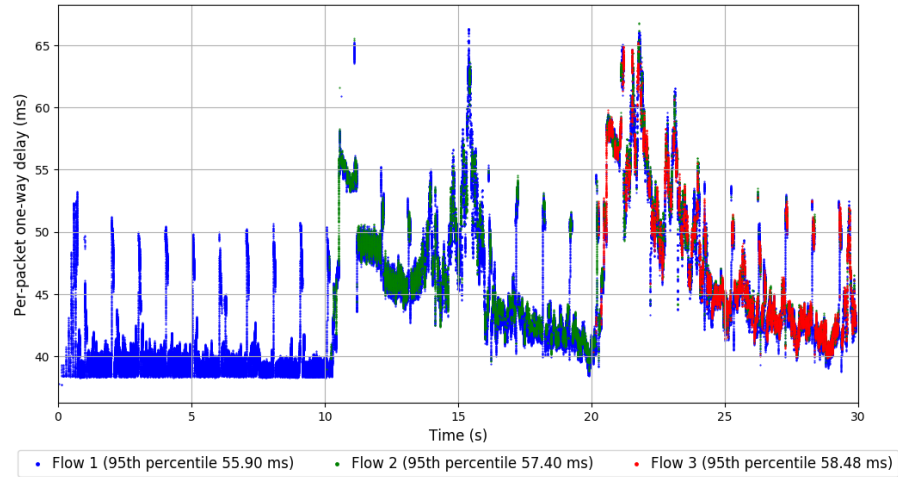
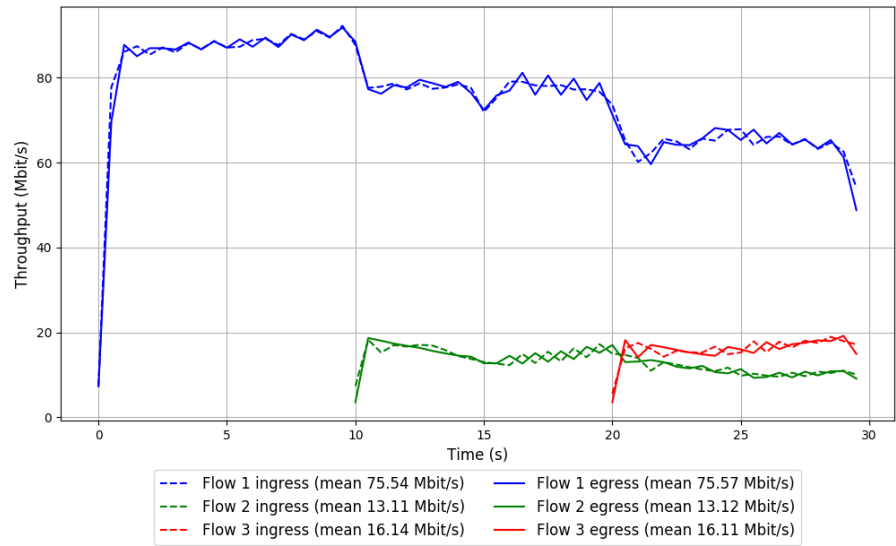


Run 10: Statistics of TCP Vegas

Start at: 2017-09-18 21:46:58
End at: 2017-09-18 21:47:28
Local clock offset: -7.744 ms
Remote clock offset: -1.053 ms

Below is generated by plot.py at 2017-09-19 00:23:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.58 Mbit/s
95th percentile per-packet one-way delay: 56.440 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 75.57 Mbit/s
95th percentile per-packet one-way delay: 55.899 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 13.12 Mbit/s
95th percentile per-packet one-way delay: 57.400 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 16.11 Mbit/s
95th percentile per-packet one-way delay: 58.478 ms
Loss rate: 1.07%

Run 10: Report of TCP Vegas — Data Link

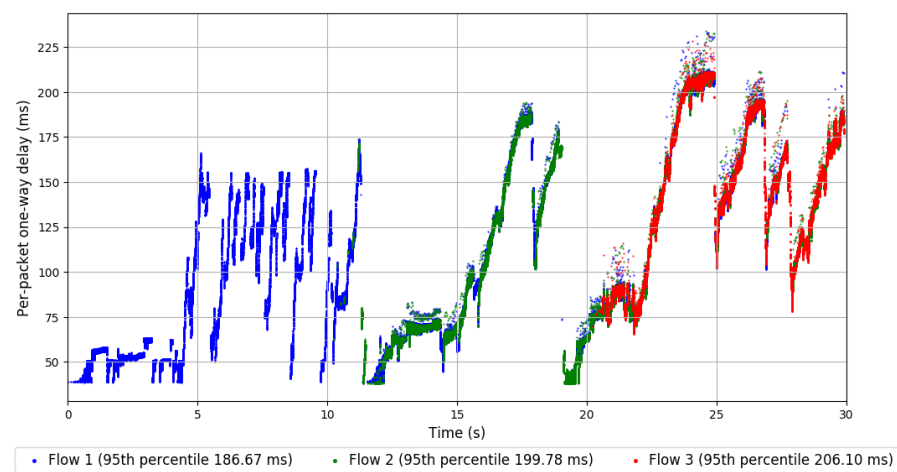
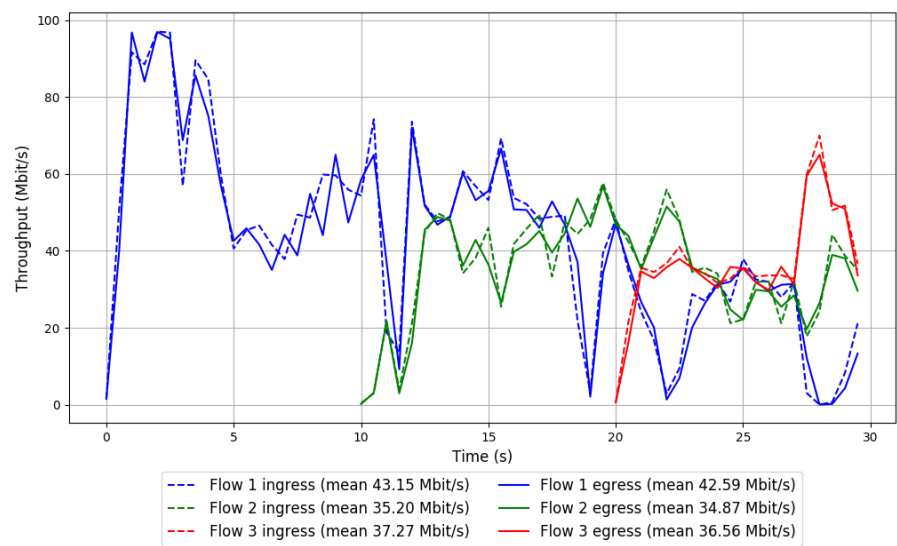


Run 1: Statistics of Verus

Start at: 2017-09-18 19:59:56
End at: 2017-09-18 20:00:26
Local clock offset: -12.988 ms
Remote clock offset: -1.192 ms

Below is generated by plot.py at 2017-09-19 00:23:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.68 Mbit/s
95th percentile per-packet one-way delay: 195.798 ms
Loss rate: 2.01%
-- Flow 1:
Average throughput: 42.59 Mbit/s
95th percentile per-packet one-way delay: 186.670 ms
Loss rate: 1.74%
-- Flow 2:
Average throughput: 34.87 Mbit/s
95th percentile per-packet one-way delay: 199.785 ms
Loss rate: 1.86%
-- Flow 3:
Average throughput: 36.56 Mbit/s
95th percentile per-packet one-way delay: 206.100 ms
Loss rate: 3.23%

Run 1: Report of Verus — Data Link

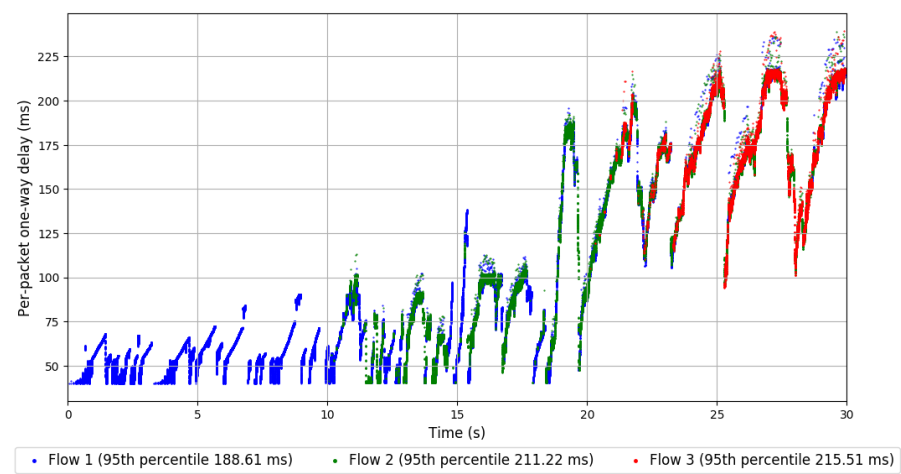
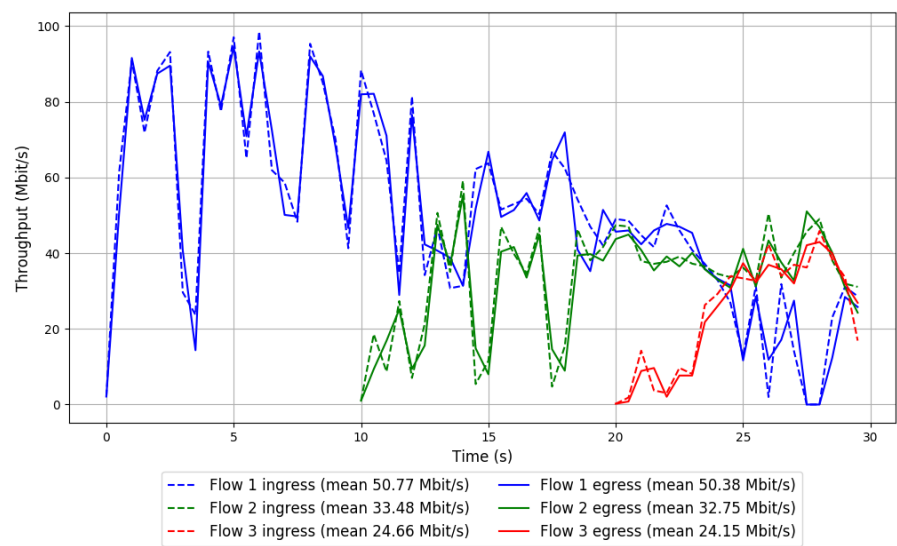


Run 2: Statistics of Verus

Start at: 2017-09-18 20:12:54
End at: 2017-09-18 20:13:24
Local clock offset: -25.499 ms
Remote clock offset: -1.194 ms

Below is generated by plot.py at 2017-09-19 00:23:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.06 Mbit/s
95th percentile per-packet one-way delay: 207.847 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 50.38 Mbit/s
95th percentile per-packet one-way delay: 188.612 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 32.75 Mbit/s
95th percentile per-packet one-way delay: 211.220 ms
Loss rate: 2.72%
-- Flow 3:
Average throughput: 24.15 Mbit/s
95th percentile per-packet one-way delay: 215.512 ms
Loss rate: 1.52%

Run 2: Report of Verus — Data Link

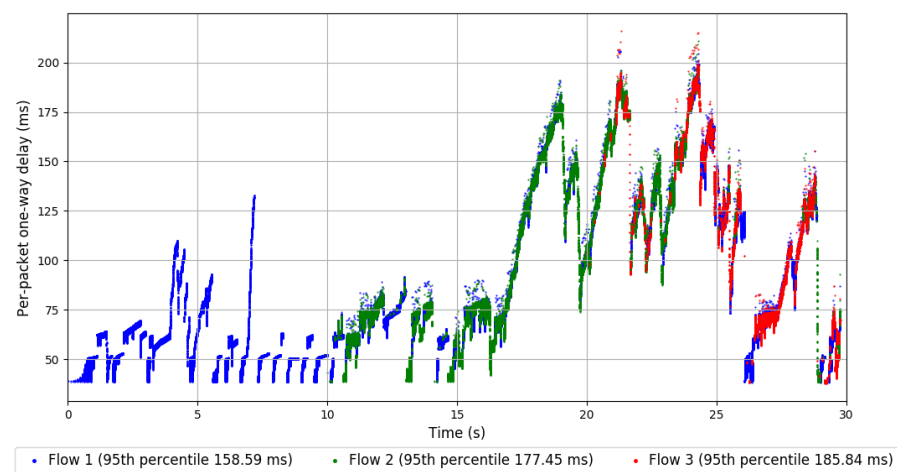
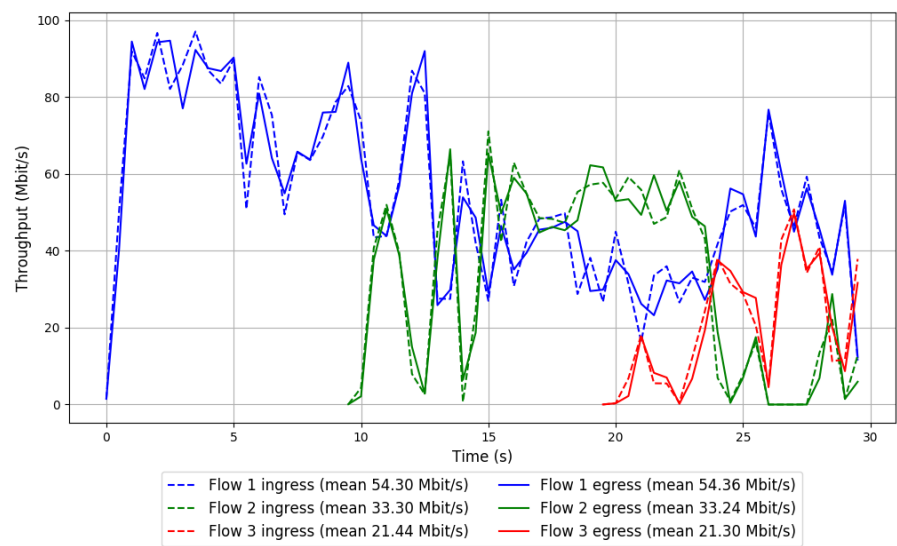


Run 3: Statistics of Verus

Start at: 2017-09-18 20:25:27
End at: 2017-09-18 20:25:57
Local clock offset: -21.716 ms
Remote clock offset: -1.129 ms

Below is generated by plot.py at 2017-09-19 00:23:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.57 Mbit/s
95th percentile per-packet one-way delay: 171.993 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 54.36 Mbit/s
95th percentile per-packet one-way delay: 158.594 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 33.24 Mbit/s
95th percentile per-packet one-way delay: 177.447 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 21.30 Mbit/s
95th percentile per-packet one-way delay: 185.835 ms
Loss rate: 2.42%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-09-18 20:38:01

End at: 2017-09-18 20:38:31

Local clock offset: -5.905 ms

Remote clock offset: -1.23 ms

Below is generated by plot.py at 2017-09-19 00:24:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.17 Mbit/s

95th percentile per-packet one-way delay: 191.937 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 55.33 Mbit/s

95th percentile per-packet one-way delay: 183.305 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 32.65 Mbit/s

95th percentile per-packet one-way delay: 194.258 ms

Loss rate: 1.88%

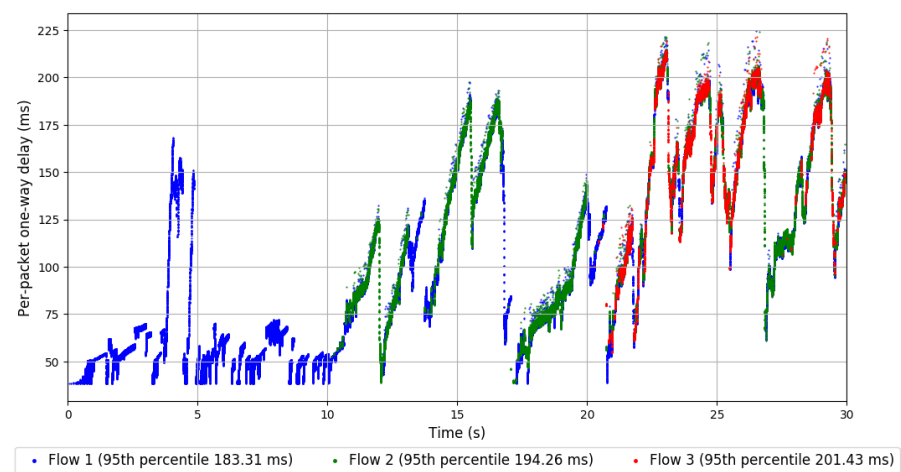
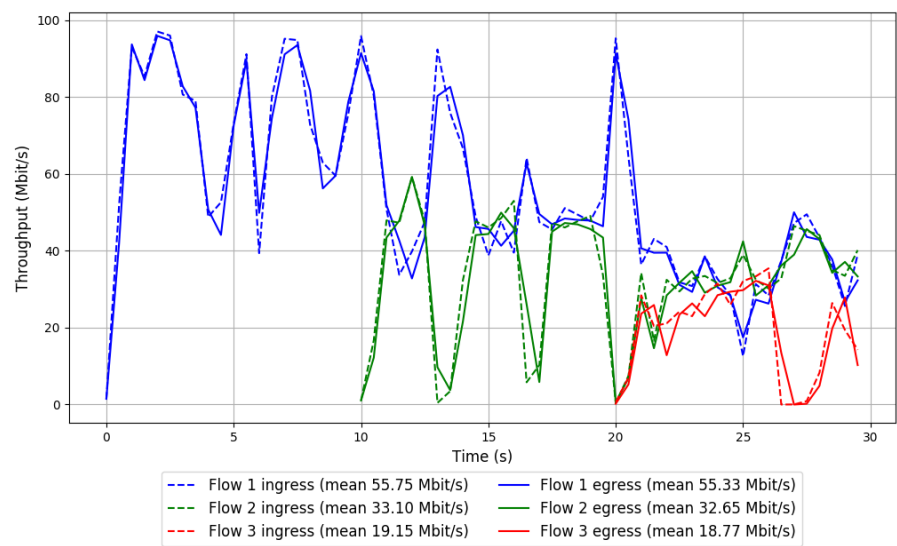
-- Flow 3:

Average throughput: 18.77 Mbit/s

95th percentile per-packet one-way delay: 201.434 ms

Loss rate: 3.54%

Run 4: Report of Verus — Data Link

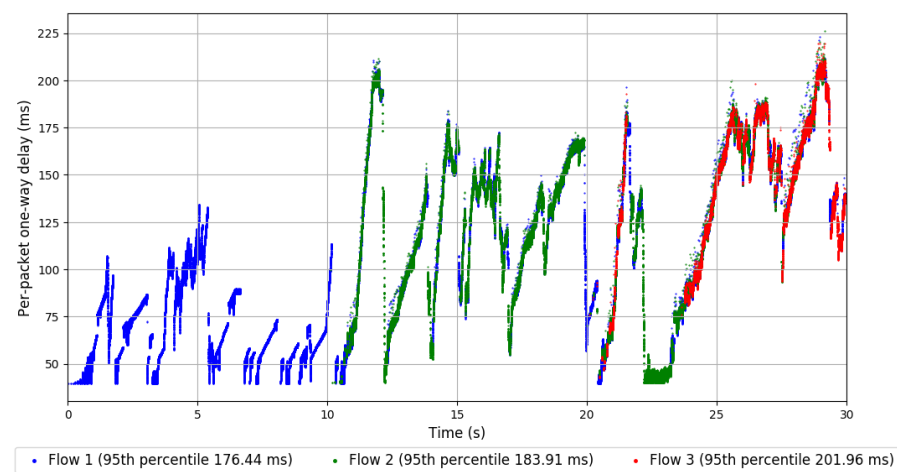
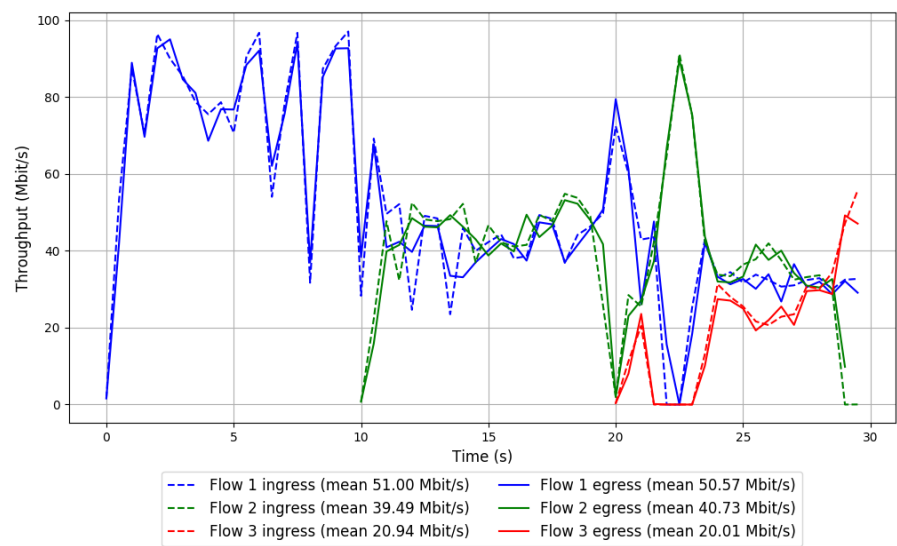


Run 5: Statistics of Verus

Start at: 2017-09-18 20:50:34
End at: 2017-09-18 20:51:04
Local clock offset: -3.753 ms
Remote clock offset: -1.219 ms

Below is generated by plot.py at 2017-09-19 00:24:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.10 Mbit/s
95th percentile per-packet one-way delay: 183.048 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 50.57 Mbit/s
95th percentile per-packet one-way delay: 176.442 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 40.73 Mbit/s
95th percentile per-packet one-way delay: 183.909 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 20.01 Mbit/s
95th percentile per-packet one-way delay: 201.963 ms
Loss rate: 5.61%

Run 5: Report of Verus — Data Link

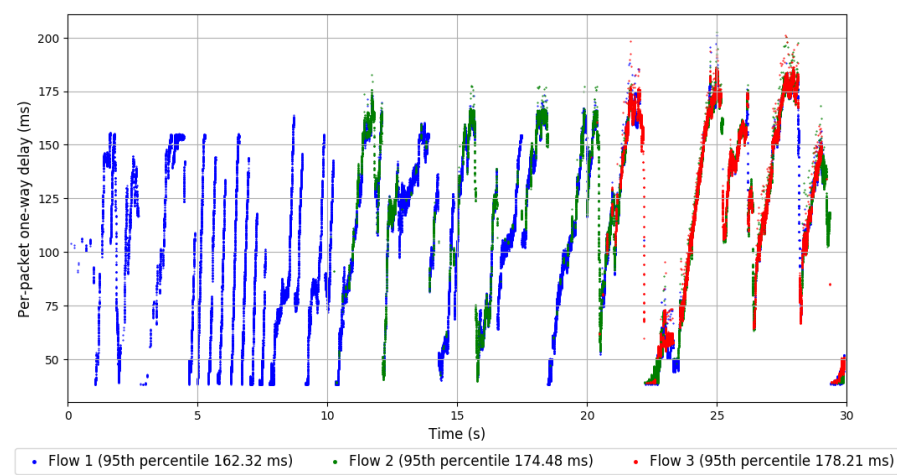
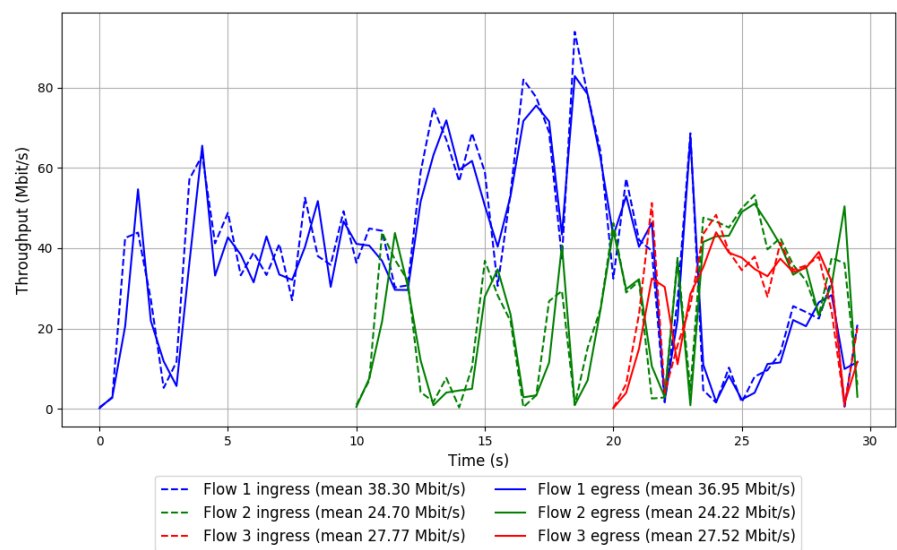


Run 6: Statistics of Verus

Start at: 2017-09-18 21:03:08
End at: 2017-09-18 21:03:38
Local clock offset: -6.4 ms
Remote clock offset: -1.233 ms

Below is generated by plot.py at 2017-09-19 00:24:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 61.98 Mbit/s
95th percentile per-packet one-way delay: 171.548 ms
Loss rate: 3.57%
-- Flow 1:
Average throughput: 36.95 Mbit/s
95th percentile per-packet one-way delay: 162.325 ms
Loss rate: 4.06%
-- Flow 2:
Average throughput: 24.22 Mbit/s
95th percentile per-packet one-way delay: 174.479 ms
Loss rate: 2.70%
-- Flow 3:
Average throughput: 27.52 Mbit/s
95th percentile per-packet one-way delay: 178.210 ms
Loss rate: 3.10%

Run 6: Report of Verus — Data Link

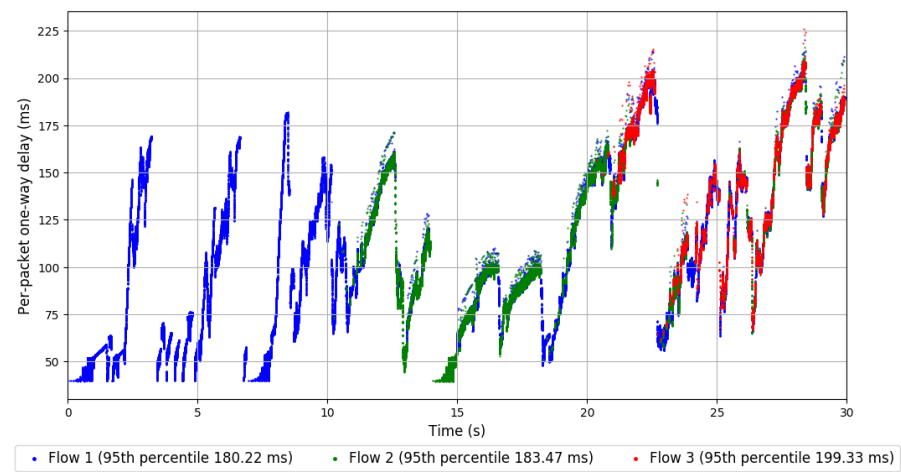
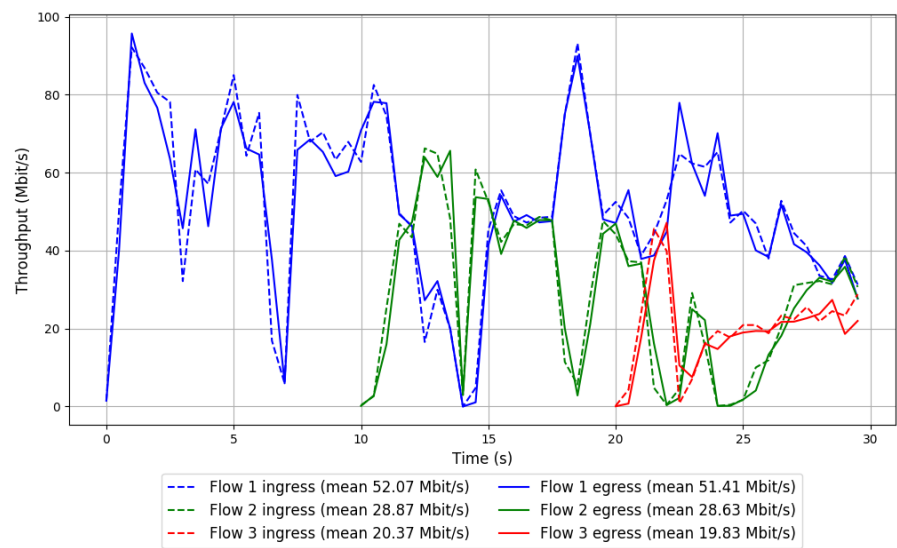


Run 7: Statistics of Verus

Start at: 2017-09-18 21:15:37
End at: 2017-09-18 21:16:07
Local clock offset: -4.202 ms
Remote clock offset: -1.201 ms

Below is generated by plot.py at 2017-09-19 00:24:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.80 Mbit/s
95th percentile per-packet one-way delay: 186.529 ms
Loss rate: 1.98%
-- Flow 1:
Average throughput: 51.41 Mbit/s
95th percentile per-packet one-way delay: 180.222 ms
Loss rate: 1.67%
-- Flow 2:
Average throughput: 28.63 Mbit/s
95th percentile per-packet one-way delay: 183.465 ms
Loss rate: 1.83%
-- Flow 3:
Average throughput: 19.83 Mbit/s
95th percentile per-packet one-way delay: 199.333 ms
Loss rate: 4.85%

Run 7: Report of Verus — Data Link

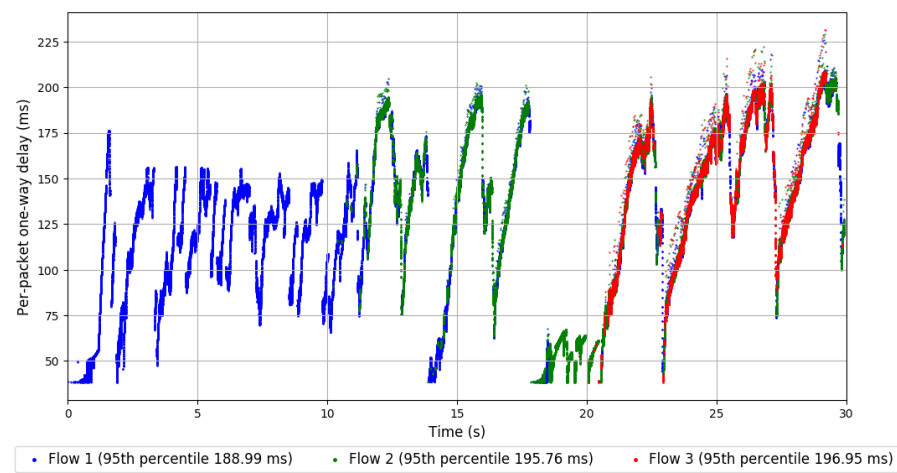
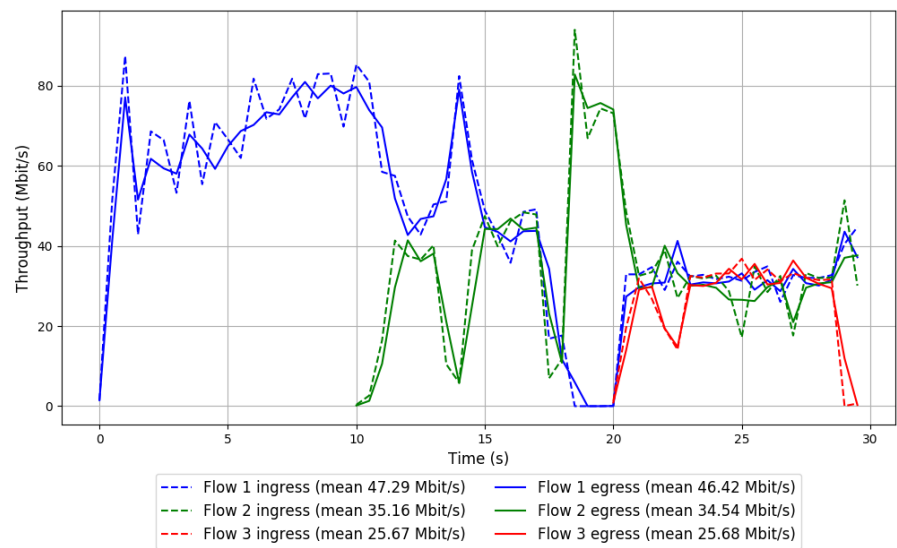


Run 8: Statistics of Verus

Start at: 2017-09-18 21:28:10
End at: 2017-09-18 21:28:40
Local clock offset: -5.58 ms
Remote clock offset: -1.136 ms

Below is generated by plot.py at 2017-09-19 00:24:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.76 Mbit/s
95th percentile per-packet one-way delay: 193.074 ms
Loss rate: 2.07%
-- Flow 1:
Average throughput: 46.42 Mbit/s
95th percentile per-packet one-way delay: 188.994 ms
Loss rate: 2.12%
-- Flow 2:
Average throughput: 34.54 Mbit/s
95th percentile per-packet one-way delay: 195.756 ms
Loss rate: 2.41%
-- Flow 3:
Average throughput: 25.68 Mbit/s
95th percentile per-packet one-way delay: 196.951 ms
Loss rate: 0.84%

Run 8: Report of Verus — Data Link

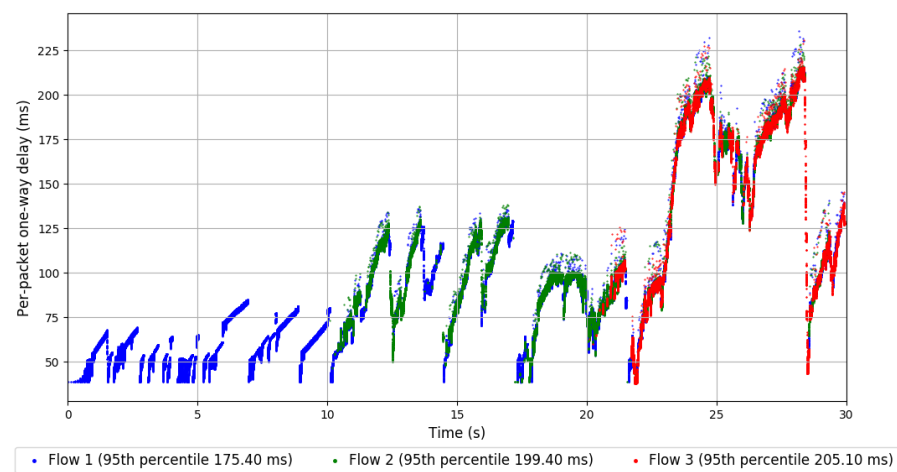
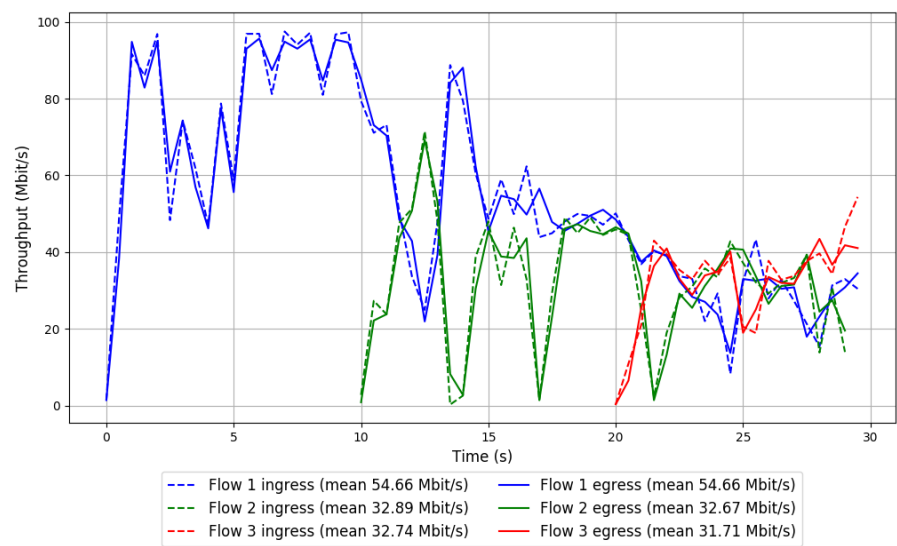


Run 9: Statistics of Verus

Start at: 2017-09-18 21:40:42
End at: 2017-09-18 21:41:12
Local clock offset: -6.984 ms
Remote clock offset: -1.146 ms

Below is generated by plot.py at 2017-09-19 00:24:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.08 Mbit/s
95th percentile per-packet one-way delay: 194.096 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 54.66 Mbit/s
95th percentile per-packet one-way delay: 175.399 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 32.67 Mbit/s
95th percentile per-packet one-way delay: 199.402 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 31.71 Mbit/s
95th percentile per-packet one-way delay: 205.097 ms
Loss rate: 4.27%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-09-18 21:53:17
End at: 2017-09-18 21:53:47
Local clock offset: -7.907 ms
Remote clock offset: -1.099 ms

Below is generated by plot.py at 2017-09-19 00:24:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.94 Mbit/s
95th percentile per-packet one-way delay: 147.224 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 50.90 Mbit/s
95th percentile per-packet one-way delay: 141.835 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 36.79 Mbit/s
95th percentile per-packet one-way delay: 150.556 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 29.45 Mbit/s
95th percentile per-packet one-way delay: 169.474 ms
Loss rate: 2.70%

Run 10: Report of Verus — Data Link

