

Pantheon Report

Generated at 2018-03-13 22:19:53 (UTC).

Data path: Colombia Ethernet (*remote*) → AWS Brazil 2 Ethernet (*local*).

Repeated the test of 17 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).

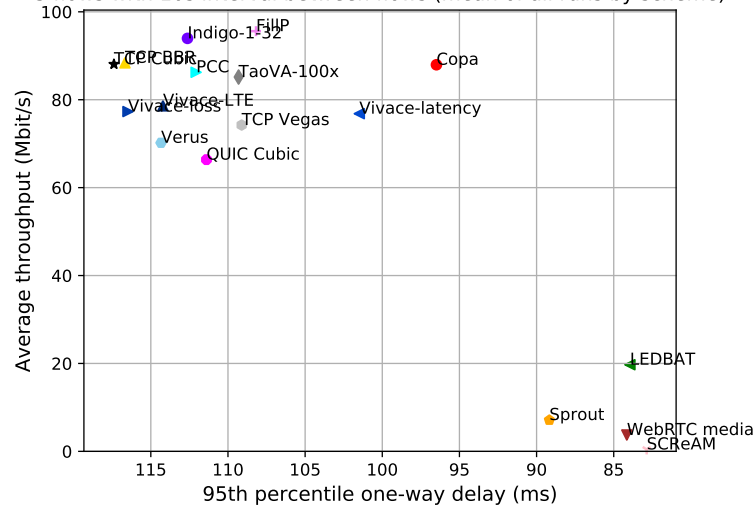
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

NTP offsets were measured against **gps.ntp.br** and have been applied to correct the timestamps in logs.

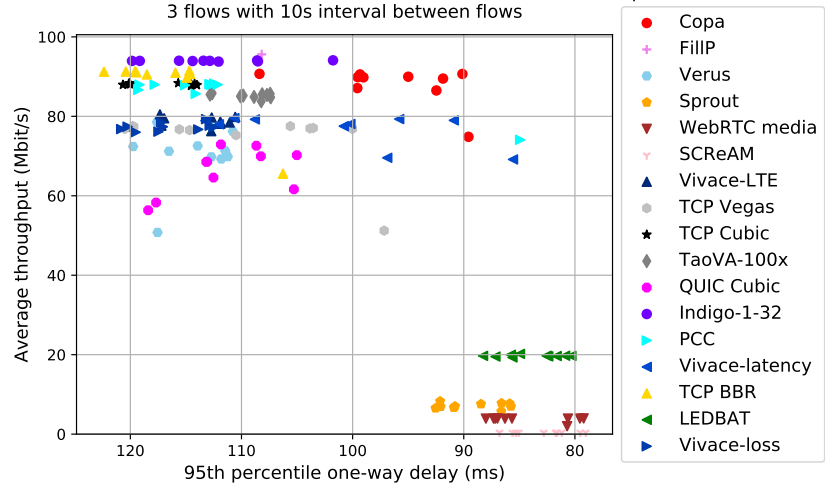
Git summary:

```
branch: master @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from Colombia Ethernet to AWS Brazil 2 Ethernet, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from Colombia Ethernet to AWS Brazil 2 Ethernet, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows



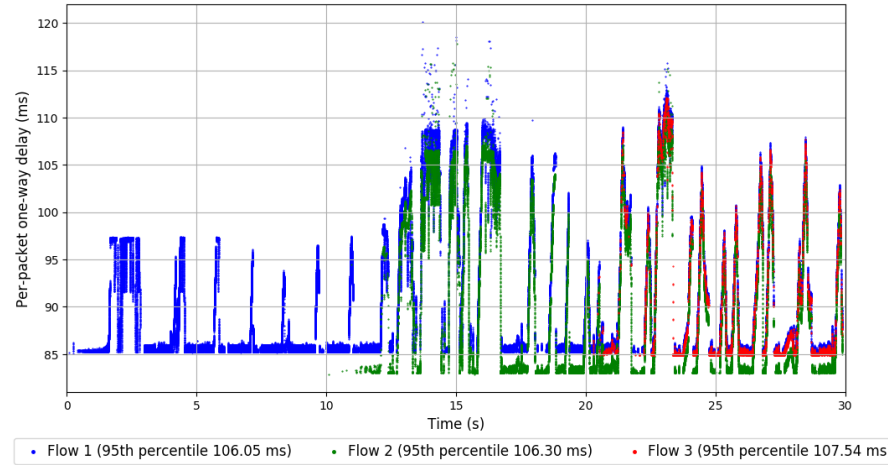
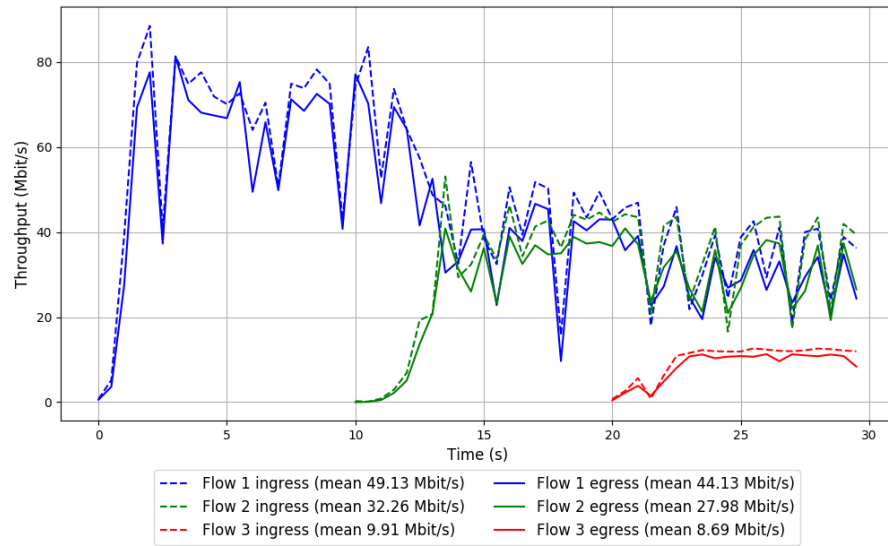
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	54.46	37.69	27.30	116.00	116.61	116.91	1.42	2.16	3.39
TCP Cubic	10	52.82	38.97	28.74	116.96	117.17	117.28	0.49	1.33	3.54
LEDBAT	10	12.81	8.43	4.06	83.20	83.77	83.44	1.07	1.69	3.44
PCC	10	58.17	29.60	26.75	111.52	112.02	112.15	2.88	2.32	9.63
QUIC Cubic	10	38.12	32.46	20.68	110.81	111.50	111.27	0.63	1.11	2.20
SCReAM	10	0.22	0.22	0.22	81.89	82.33	82.10	0.64	0.84	1.50
WebRTC media	10	1.91	1.33	0.51	83.08	83.35	84.13	0.66	0.84	2.45
Sprout	10	3.68	3.81	2.80	89.23	89.05	88.52	0.65	1.02	2.60
TaoVA-100x	10	50.84	37.89	27.94	108.59	109.20	109.75	0.40	0.79	2.01
TCP Vegas	10	37.42	42.31	26.62	107.66	109.30	111.40	0.60	0.77	2.27
Verus	10	39.46	33.93	25.19	111.89	114.53	116.07	1.64	2.07	4.49
Copa	10	68.79	22.46	12.97	95.76	97.90	97.82	1.91	2.83	3.96
FillP	1	59.02	40.00	30.78	105.94	108.06	110.86	0.44	6.94	13.24
Indigo-1-32	10	63.81	32.67	26.47	111.48	113.10	114.22	0.38	0.76	2.24
Vivace-latency	10	61.84	17.98	9.45	99.41	103.68	103.80	0.83	2.46	4.98
Vivace-loss	10	48.69	31.03	24.71	116.05	116.05	116.33	1.38	2.06	5.93
Vivace-LTE	10	51.35	30.10	22.46	113.54	114.20	114.87	0.46	2.14	2.98

Run 1: Statistics of TCP BBR

Start at: 2018-03-13 14:17:30
End at: 2018-03-13 14:18:00
Local clock offset: -6.045 ms
Remote clock offset: -5.075 ms

Below is generated by plot.py at 2018-03-13 21:57:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.56 Mbit/s
95th percentile per-packet one-way delay: 106.264 ms
Loss rate: 11.79%
-- Flow 1:
Average throughput: 44.13 Mbit/s
95th percentile per-packet one-way delay: 106.050 ms
Loss rate: 10.69%
-- Flow 2:
Average throughput: 27.98 Mbit/s
95th percentile per-packet one-way delay: 106.295 ms
Loss rate: 14.00%
-- Flow 3:
Average throughput: 8.69 Mbit/s
95th percentile per-packet one-way delay: 107.539 ms
Loss rate: 13.82%

Run 1: Report of TCP BBR — Data Link

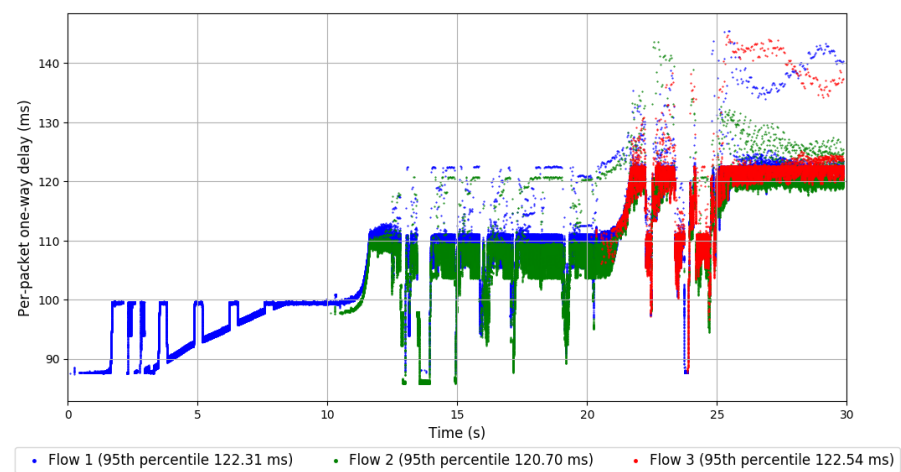
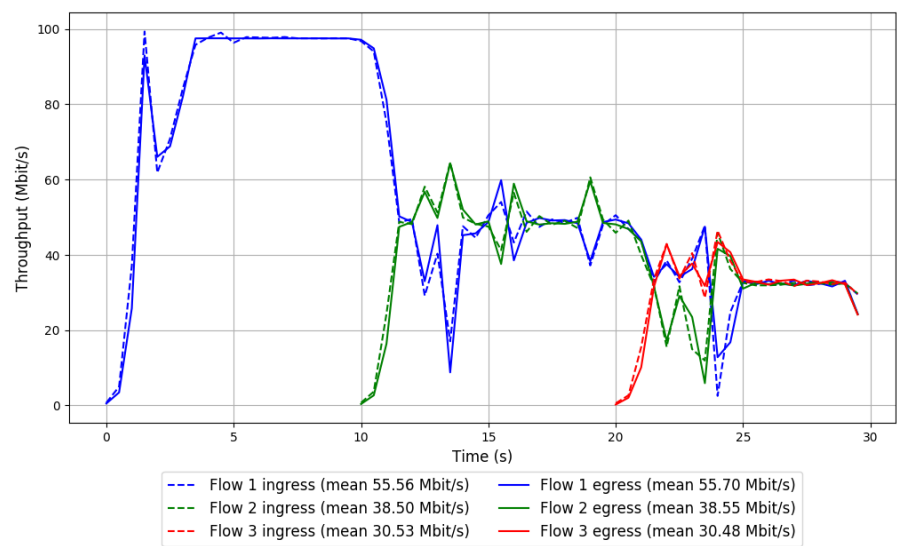


Run 2: Statistics of TCP BBR

Start at: 2018-03-13 14:41:05
End at: 2018-03-13 14:41:35
Local clock offset: -5.756 ms
Remote clock offset: -5.614 ms

Below is generated by plot.py at 2018-03-13 21:58:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.24 Mbit/s
95th percentile per-packet one-way delay: 122.371 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 55.70 Mbit/s
95th percentile per-packet one-way delay: 122.315 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 38.55 Mbit/s
95th percentile per-packet one-way delay: 120.700 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 30.48 Mbit/s
95th percentile per-packet one-way delay: 122.537 ms
Loss rate: 2.21%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-03-13 15:04:47

End at: 2018-03-13 15:05:17

Local clock offset: -6.273 ms

Remote clock offset: 0.088 ms

Below is generated by plot.py at 2018-03-13 21:58:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.98 Mbit/s

95th percentile per-packet one-way delay: 115.937 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 55.96 Mbit/s

95th percentile per-packet one-way delay: 114.392 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 38.70 Mbit/s

95th percentile per-packet one-way delay: 116.927 ms

Loss rate: 0.85%

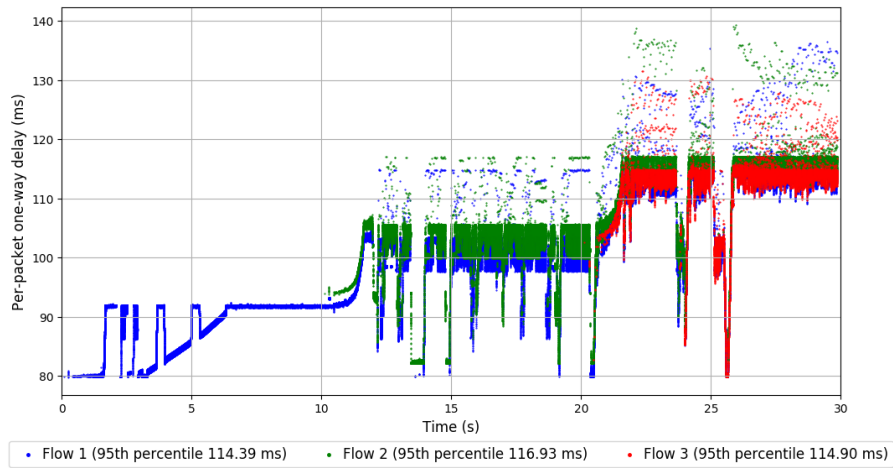
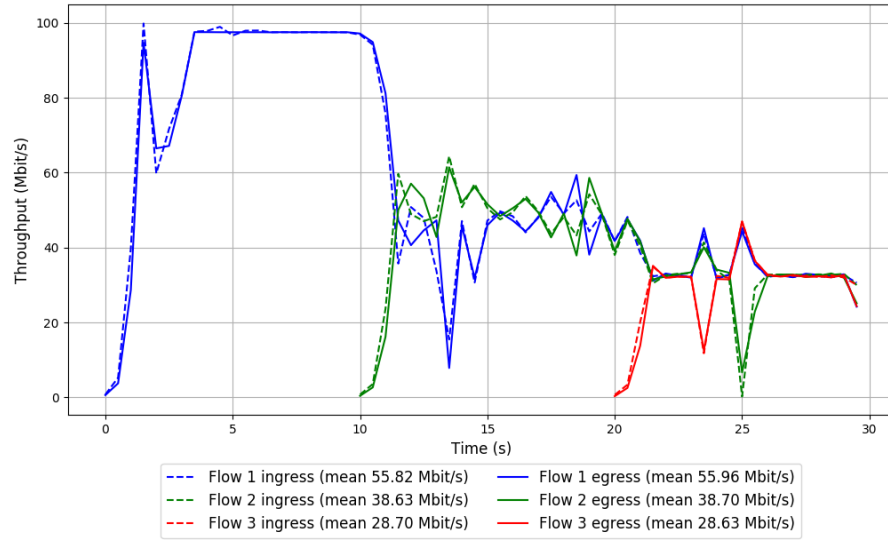
-- Flow 3:

Average throughput: 28.63 Mbit/s

95th percentile per-packet one-way delay: 114.903 ms

Loss rate: 2.31%

Run 3: Report of TCP BBR — Data Link

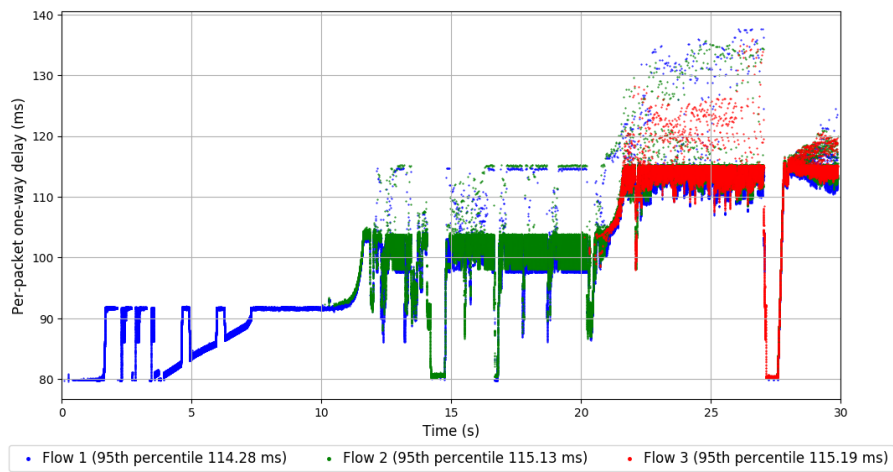
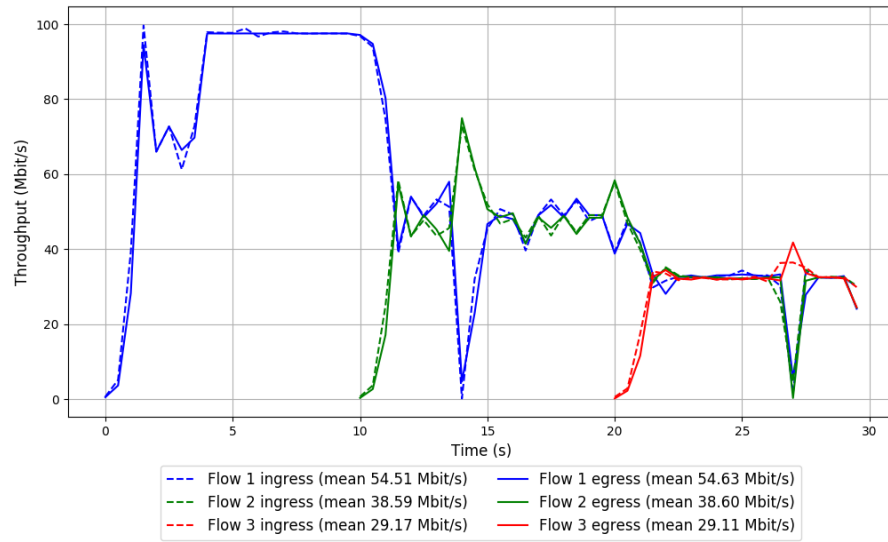


Run 4: Statistics of TCP BBR

Start at: 2018-03-13 15:28:24
End at: 2018-03-13 15:28:54
Local clock offset: -5.92 ms
Remote clock offset: -0.262 ms

Below is generated by plot.py at 2018-03-13 21:58:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.75 Mbit/s
95th percentile per-packet one-way delay: 114.904 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 54.63 Mbit/s
95th percentile per-packet one-way delay: 114.281 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 38.60 Mbit/s
95th percentile per-packet one-way delay: 115.129 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 29.11 Mbit/s
95th percentile per-packet one-way delay: 115.186 ms
Loss rate: 2.26%

Run 4: Report of TCP BBR — Data Link

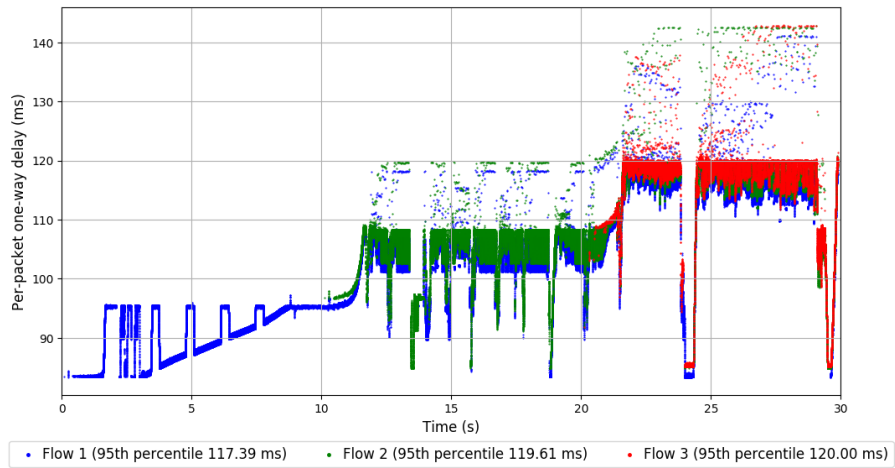
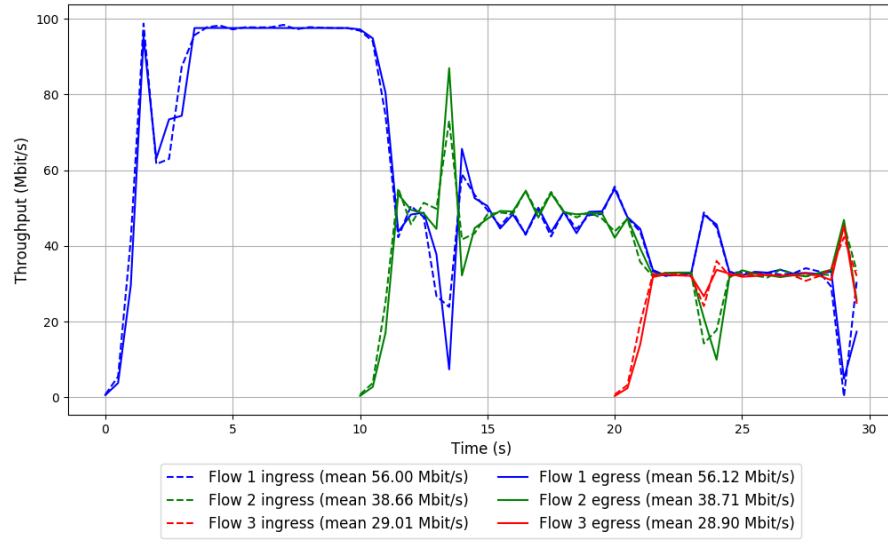


Run 5: Statistics of TCP BBR

Start at: 2018-03-13 15:51:58
End at: 2018-03-13 15:52:28
Local clock offset: -4.598 ms
Remote clock offset: -5.645 ms

Below is generated by plot.py at 2018-03-13 21:58:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.29 Mbit/s
95th percentile per-packet one-way delay: 119.573 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 56.12 Mbit/s
95th percentile per-packet one-way delay: 117.395 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 38.71 Mbit/s
95th percentile per-packet one-way delay: 119.611 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 28.90 Mbit/s
95th percentile per-packet one-way delay: 120.000 ms
Loss rate: 2.26%

Run 5: Report of TCP BBR — Data Link

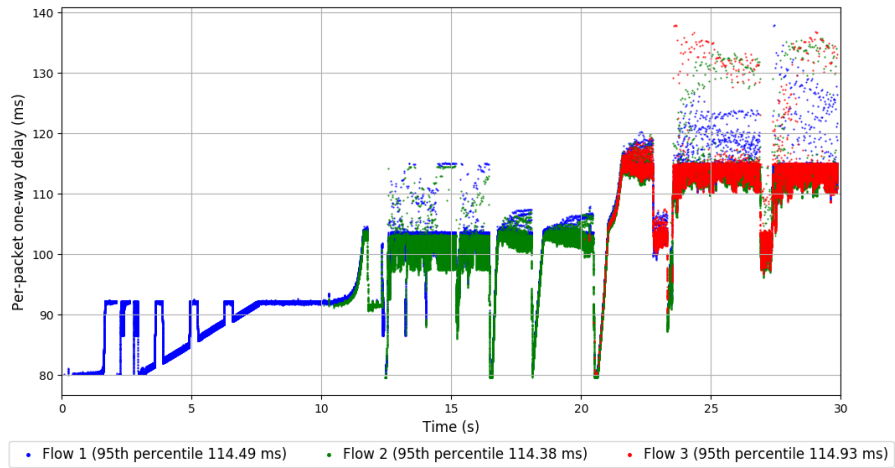
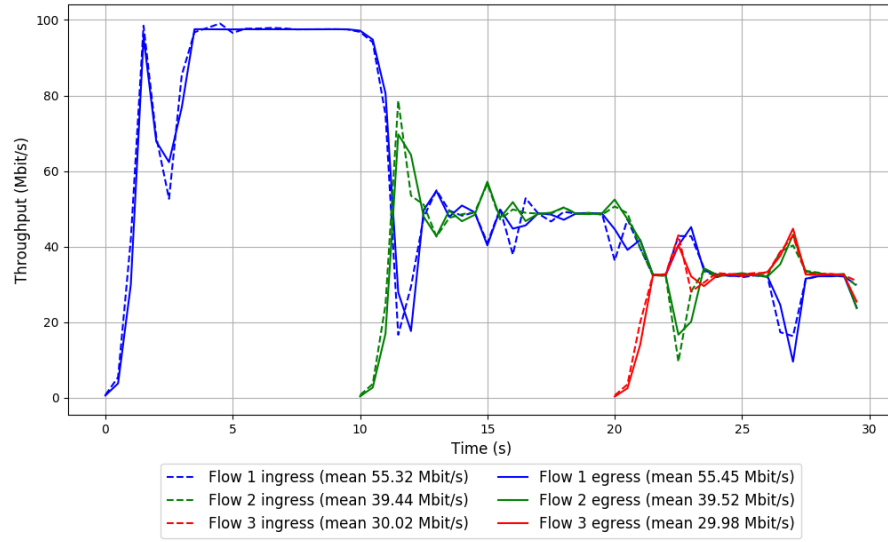


Run 6: Statistics of TCP BBR

Start at: 2018-03-13 16:15:31
End at: 2018-03-13 16:16:01
Local clock offset: -1.781 ms
Remote clock offset: -0.631 ms

Below is generated by plot.py at 2018-03-13 21:58:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.47 Mbit/s
95th percentile per-packet one-way delay: 114.691 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 55.45 Mbit/s
95th percentile per-packet one-way delay: 114.488 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 39.52 Mbit/s
95th percentile per-packet one-way delay: 114.383 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 29.98 Mbit/s
95th percentile per-packet one-way delay: 114.934 ms
Loss rate: 2.26%

Run 6: Report of TCP BBR — Data Link

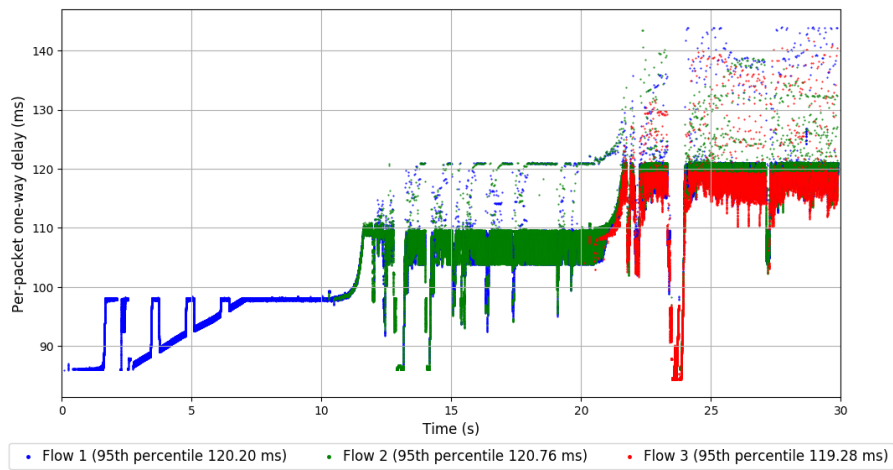
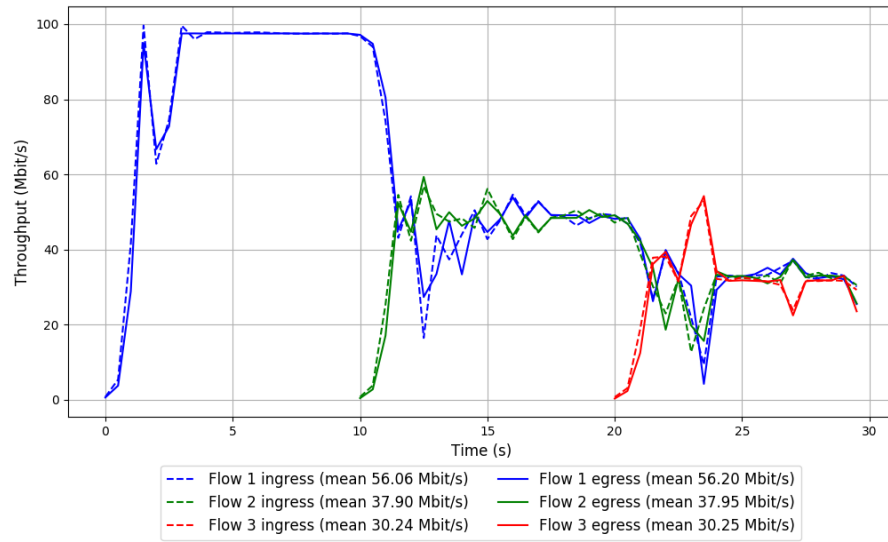


Run 7: Statistics of TCP BBR

Start at: 2018-03-13 16:39:01
End at: 2018-03-13 16:39:31
Local clock offset: -3.05 ms
Remote clock offset: -5.996 ms

Below is generated by plot.py at 2018-03-13 21:58:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.26 Mbit/s
95th percentile per-packet one-way delay: 120.405 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 56.20 Mbit/s
95th percentile per-packet one-way delay: 120.205 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 37.95 Mbit/s
95th percentile per-packet one-way delay: 120.756 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 30.25 Mbit/s
95th percentile per-packet one-way delay: 119.282 ms
Loss rate: 2.07%

Run 7: Report of TCP BBR — Data Link

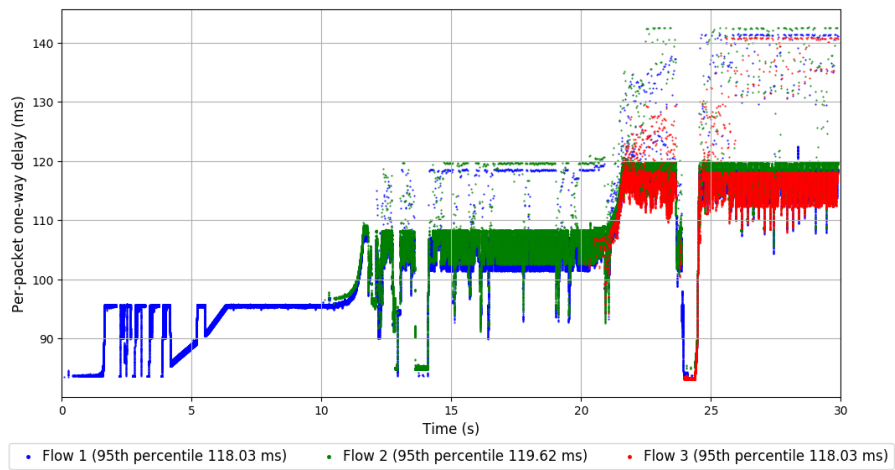
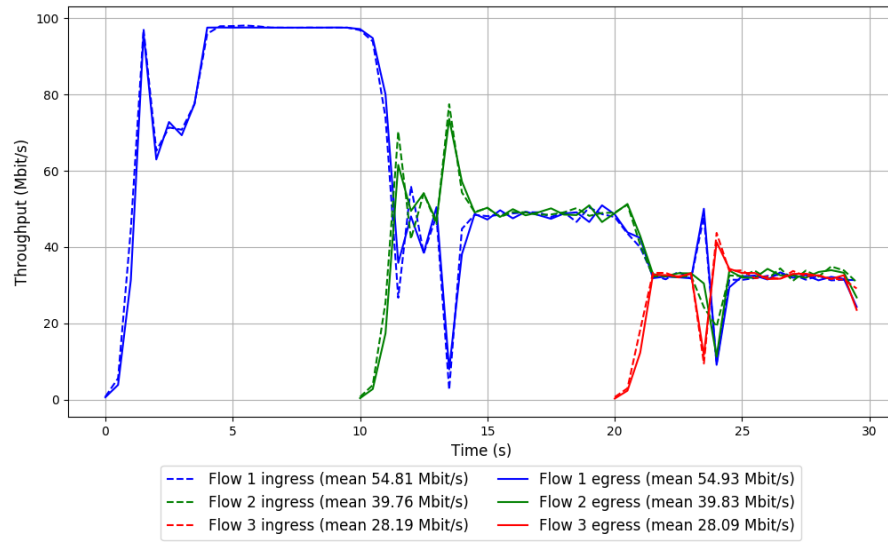


Run 8: Statistics of TCP BBR

Start at: 2018-03-13 17:02:30
End at: 2018-03-13 17:03:00
Local clock offset: -3.065 ms
Remote clock offset: -4.681 ms

Below is generated by plot.py at 2018-03-13 21:58:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.55 Mbit/s
95th percentile per-packet one-way delay: 118.510 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 54.93 Mbit/s
95th percentile per-packet one-way delay: 118.032 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 39.83 Mbit/s
95th percentile per-packet one-way delay: 119.624 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 28.09 Mbit/s
95th percentile per-packet one-way delay: 118.027 ms
Loss rate: 2.20%

Run 8: Report of TCP BBR — Data Link

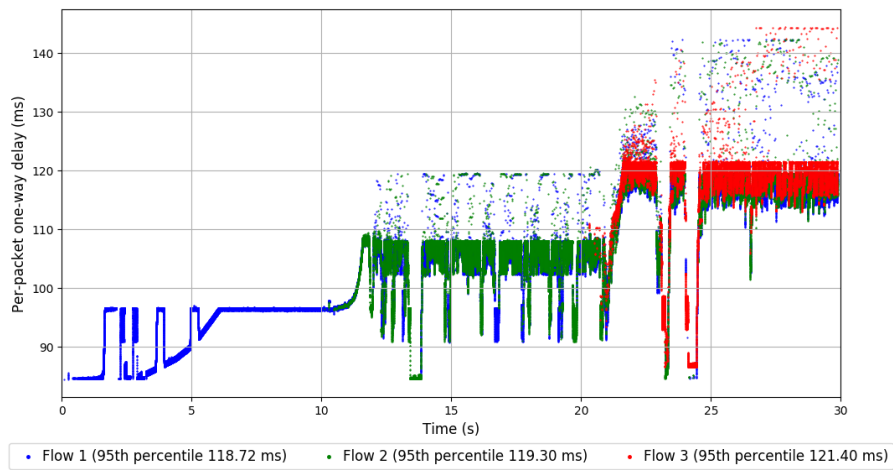
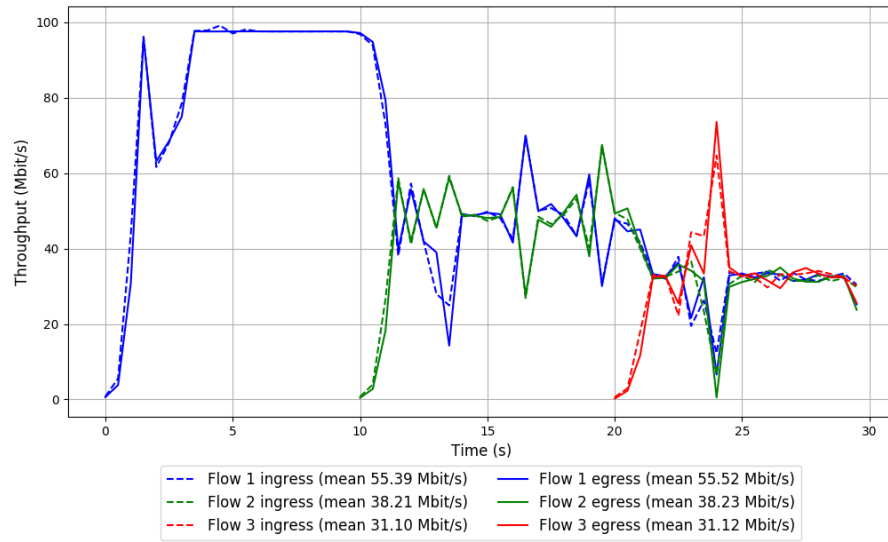


Run 9: Statistics of TCP BBR

Start at: 2018-03-13 17:26:02
End at: 2018-03-13 17:26:32
Local clock offset: -2.724 ms
Remote clock offset: -5.798 ms

Below is generated by plot.py at 2018-03-13 21:59:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.07 Mbit/s
95th percentile per-packet one-way delay: 119.468 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 55.52 Mbit/s
95th percentile per-packet one-way delay: 118.721 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 38.23 Mbit/s
95th percentile per-packet one-way delay: 119.302 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 31.12 Mbit/s
95th percentile per-packet one-way delay: 121.399 ms
Loss rate: 2.08%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-03-13 17:49:42

End at: 2018-03-13 17:50:12

Local clock offset: -6.036 ms

Remote clock offset: 0.07 ms

Below is generated by plot.py at 2018-03-13 21:59:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.73 Mbit/s

95th percentile per-packet one-way delay: 114.628 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 55.92 Mbit/s

95th percentile per-packet one-way delay: 114.117 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 38.78 Mbit/s

95th percentile per-packet one-way delay: 113.325 ms

Loss rate: 0.82%

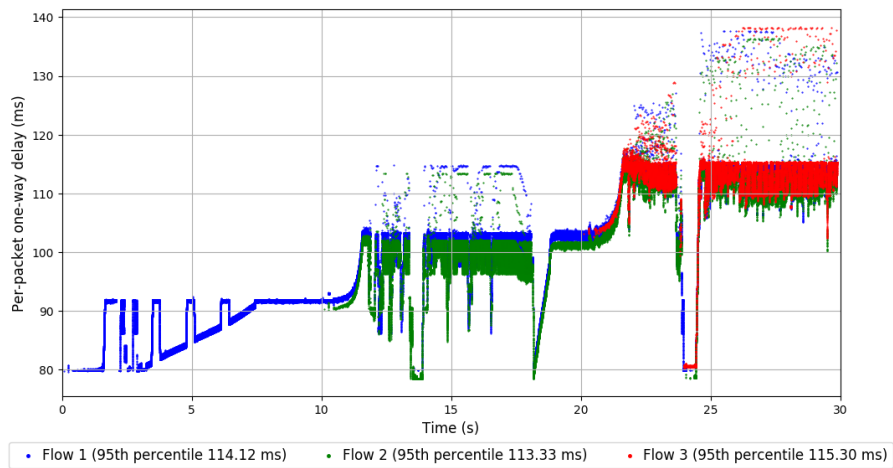
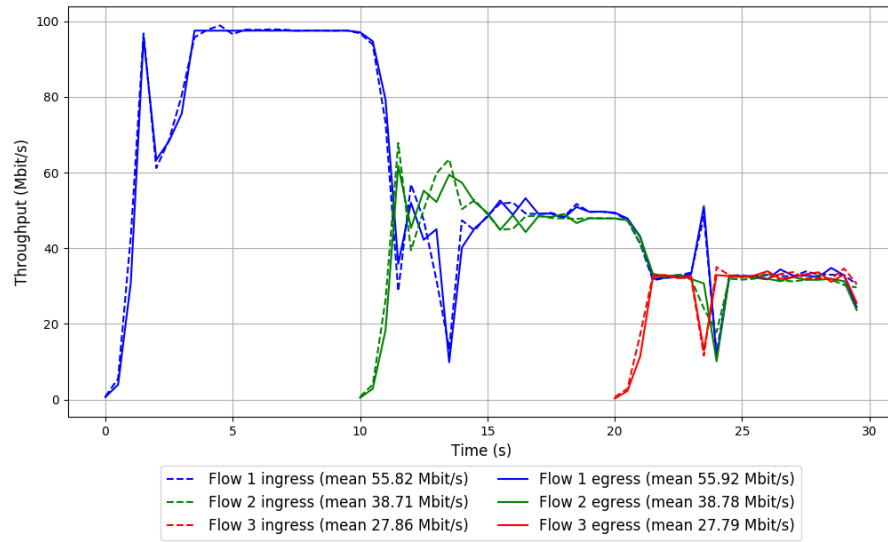
-- Flow 3:

Average throughput: 27.79 Mbit/s

95th percentile per-packet one-way delay: 115.304 ms

Loss rate: 2.40%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-03-13 14:04:28

End at: 2018-03-13 14:04:58

Local clock offset: -7.018 ms

Remote clock offset: 0.652 ms

Below is generated by plot.py at 2018-03-13 21:59:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.87 Mbit/s

95th percentile per-packet one-way delay: 114.010 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 52.75 Mbit/s

95th percentile per-packet one-way delay: 113.684 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 38.73 Mbit/s

95th percentile per-packet one-way delay: 112.057 ms

Loss rate: 0.93%

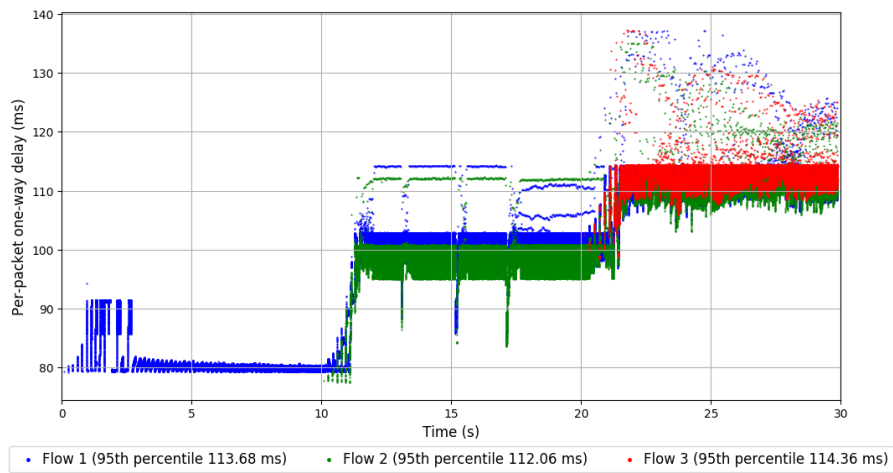
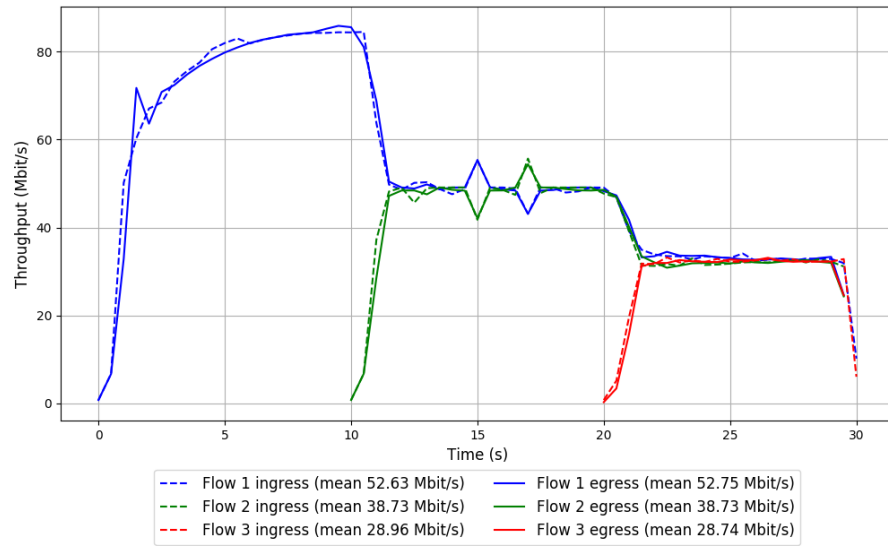
-- Flow 3:

Average throughput: 28.74 Mbit/s

95th percentile per-packet one-way delay: 114.357 ms

Loss rate: 3.71%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-03-13 14:27:58

End at: 2018-03-13 14:28:28

Local clock offset: -5.839 ms

Remote clock offset: 0.778 ms

Below is generated by plot.py at 2018-03-13 21:59:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.68 Mbit/s

95th percentile per-packet one-way delay: 114.542 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 52.61 Mbit/s

95th percentile per-packet one-way delay: 115.430 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 38.84 Mbit/s

95th percentile per-packet one-way delay: 114.064 ms

Loss rate: 0.84%

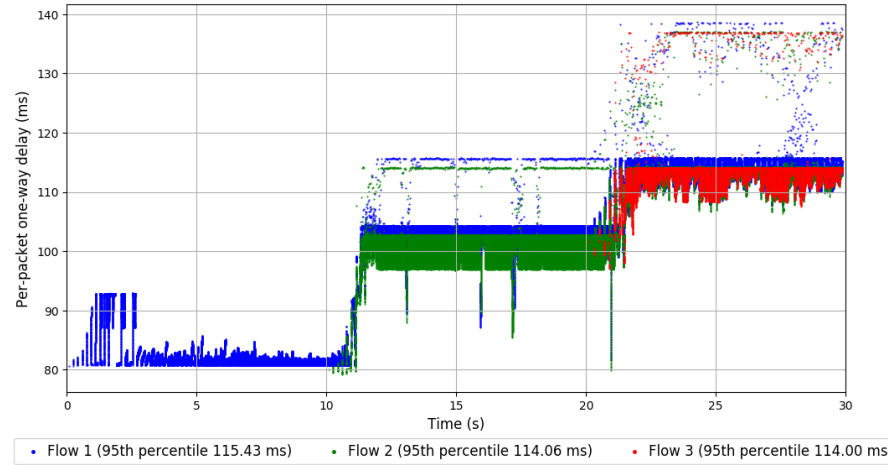
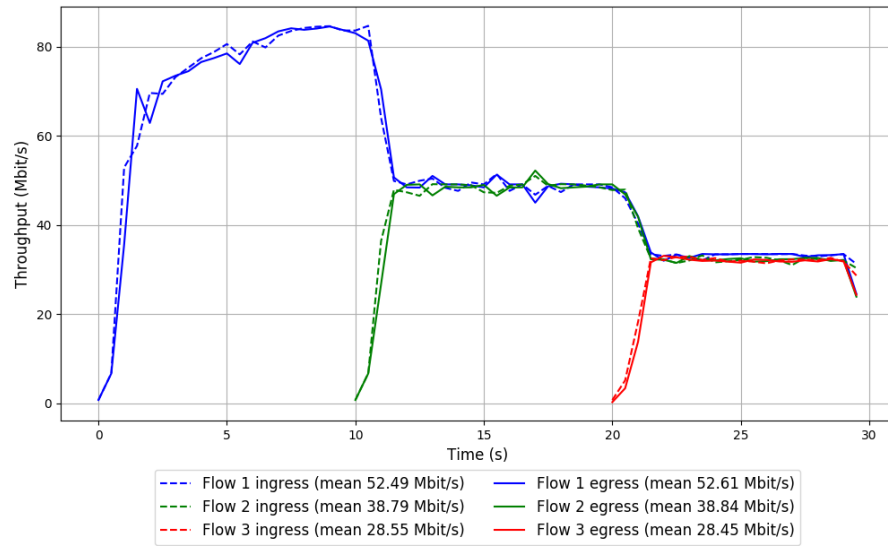
-- Flow 3:

Average throughput: 28.45 Mbit/s

95th percentile per-packet one-way delay: 114.001 ms

Loss rate: 2.30%

Run 2: Report of TCP Cubic — Data Link

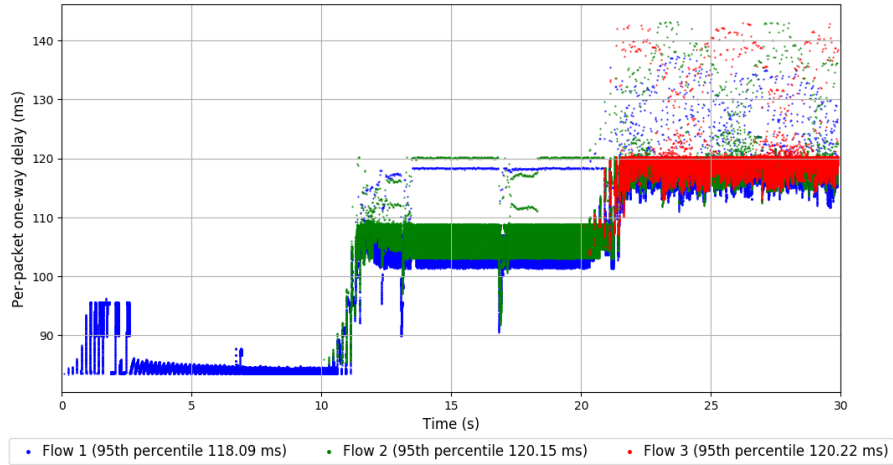
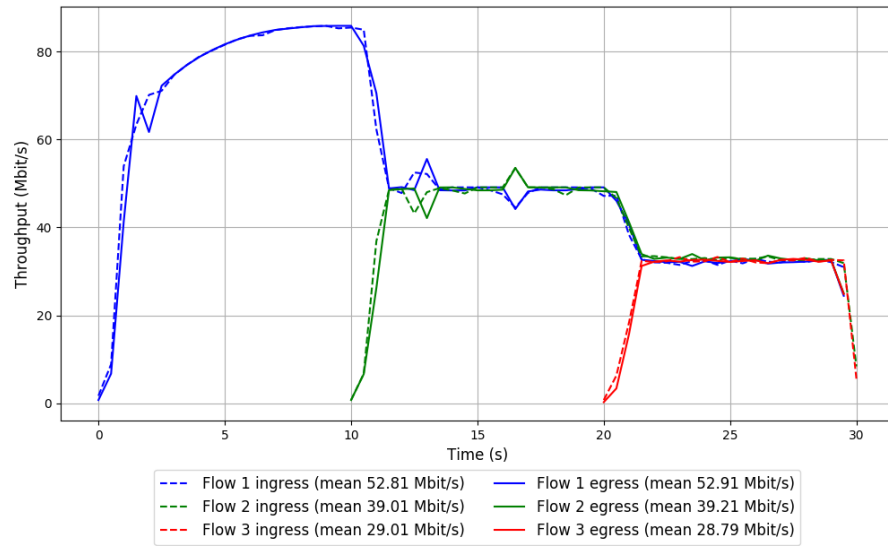


Run 3: Statistics of TCP Cubic

Start at: 2018-03-13 14:51:34
End at: 2018-03-13 14:52:04
Local clock offset: -6.078 ms
Remote clock offset: -4.671 ms

Below is generated by plot.py at 2018-03-13 21:59:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.35 Mbit/s
95th percentile per-packet one-way delay: 120.084 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 52.91 Mbit/s
95th percentile per-packet one-way delay: 118.089 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 39.21 Mbit/s
95th percentile per-packet one-way delay: 120.153 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 28.79 Mbit/s
95th percentile per-packet one-way delay: 120.218 ms
Loss rate: 3.70%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-03-13 15:15:17

End at: 2018-03-13 15:15:47

Local clock offset: -6.313 ms

Remote clock offset: 0.092 ms

Below is generated by plot.py at 2018-03-13 21:59:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.36 Mbit/s

95th percentile per-packet one-way delay: 115.687 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 52.87 Mbit/s

95th percentile per-packet one-way delay: 112.742 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 39.34 Mbit/s

95th percentile per-packet one-way delay: 116.510 ms

Loss rate: 1.46%

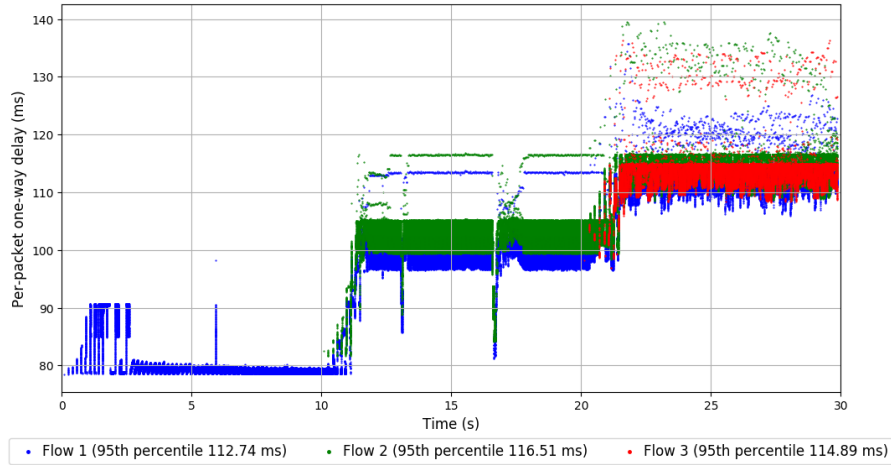
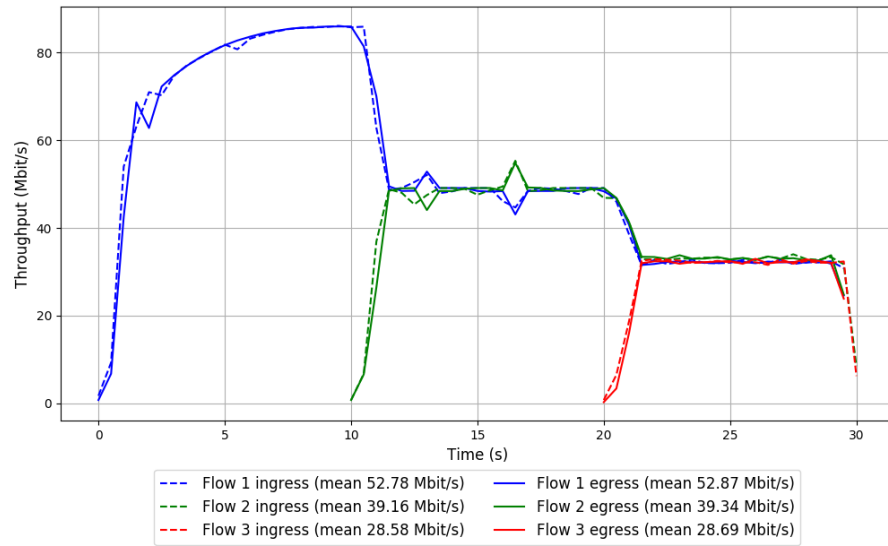
-- Flow 3:

Average throughput: 28.69 Mbit/s

95th percentile per-packet one-way delay: 114.887 ms

Loss rate: 3.69%

Run 4: Report of TCP Cubic — Data Link

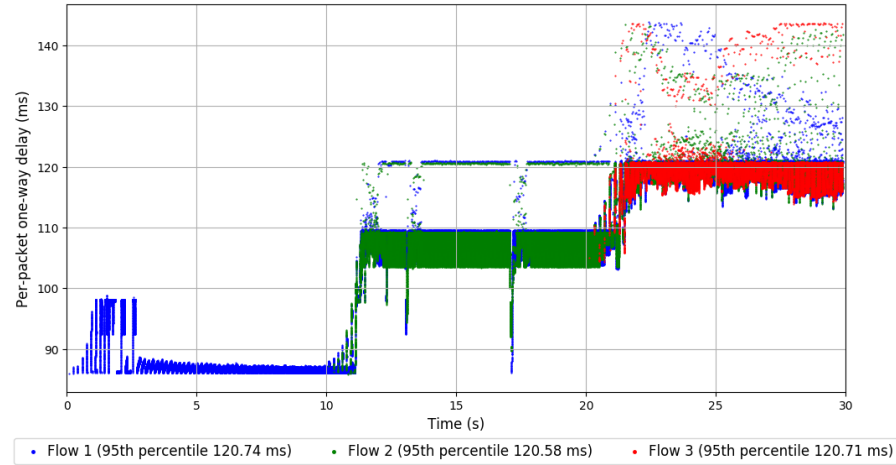
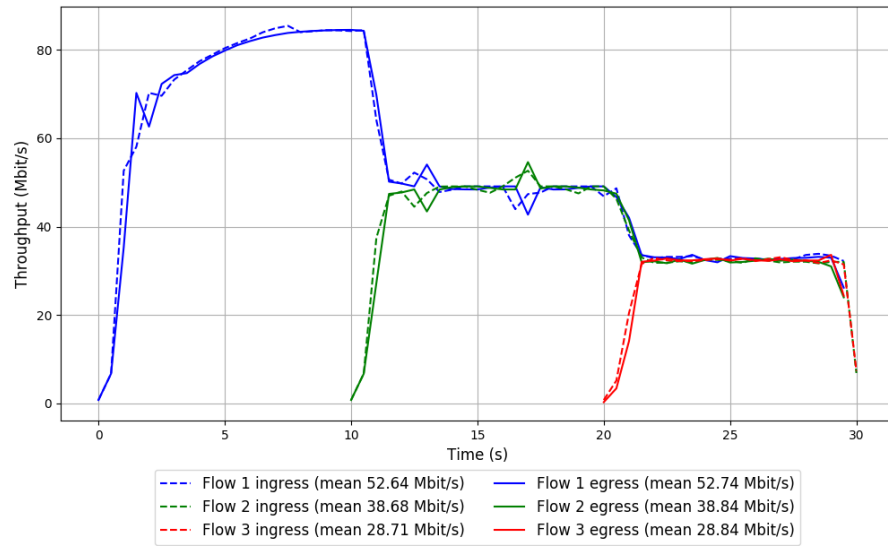


Run 5: Statistics of TCP Cubic

Start at: 2018-03-13 15:38:52
End at: 2018-03-13 15:39:22
Local clock offset: -5.768 ms
Remote clock offset: -6.312 ms

Below is generated by plot.py at 2018-03-13 21:59:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.95 Mbit/s
95th percentile per-packet one-way delay: 120.665 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 52.74 Mbit/s
95th percentile per-packet one-way delay: 120.743 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 38.84 Mbit/s
95th percentile per-packet one-way delay: 120.584 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 28.84 Mbit/s
95th percentile per-packet one-way delay: 120.711 ms
Loss rate: 3.69%

Run 5: Report of TCP Cubic — Data Link

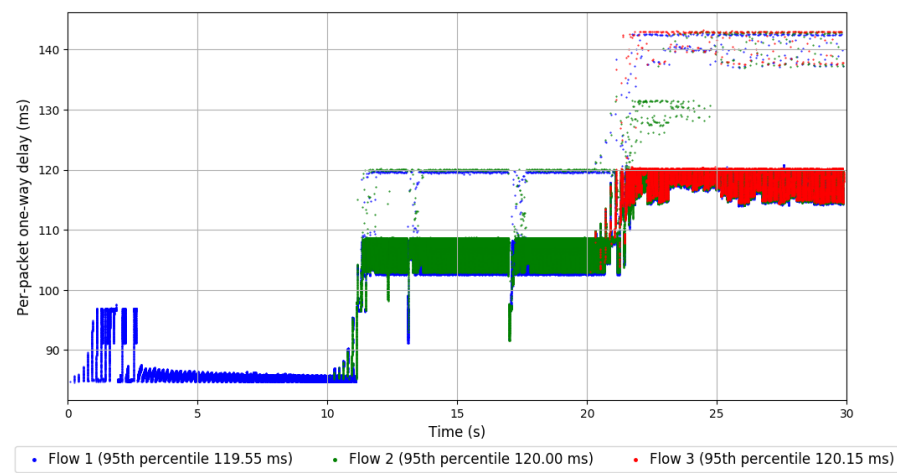
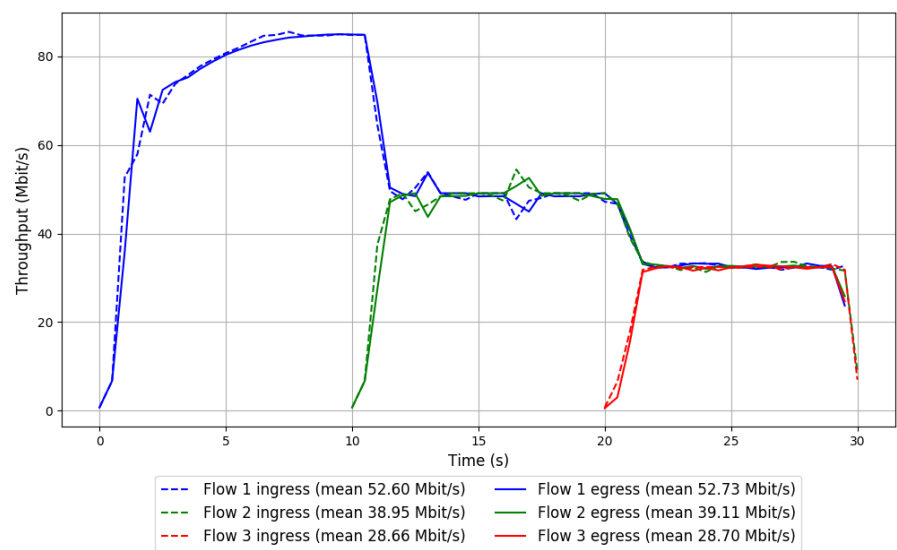


Run 6: Statistics of TCP Cubic

Start at: 2018-03-13 16:02:25
End at: 2018-03-13 16:02:55
Local clock offset: -2.719 ms
Remote clock offset: -5.594 ms

Below is generated by plot.py at 2018-03-13 21:59:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.07 Mbit/s
95th percentile per-packet one-way delay: 120.005 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 52.73 Mbit/s
95th percentile per-packet one-way delay: 119.545 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 39.11 Mbit/s
95th percentile per-packet one-way delay: 120.000 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 28.70 Mbit/s
95th percentile per-packet one-way delay: 120.151 ms
Loss rate: 3.71%

Run 6: Report of TCP Cubic — Data Link

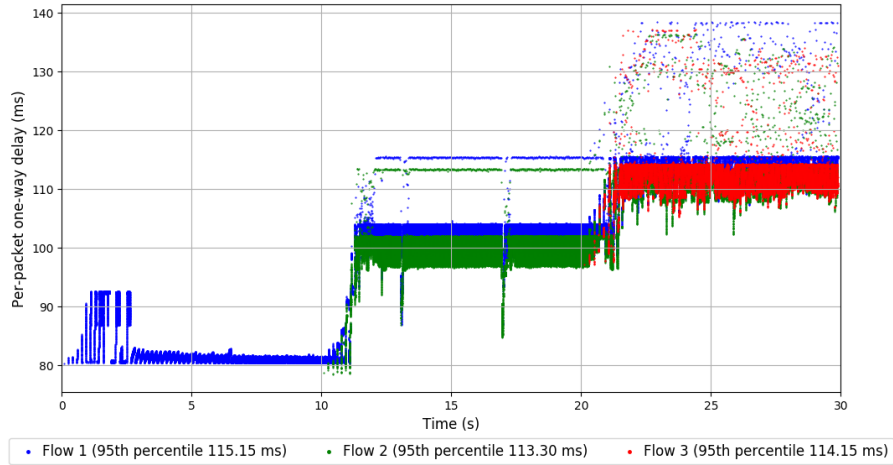
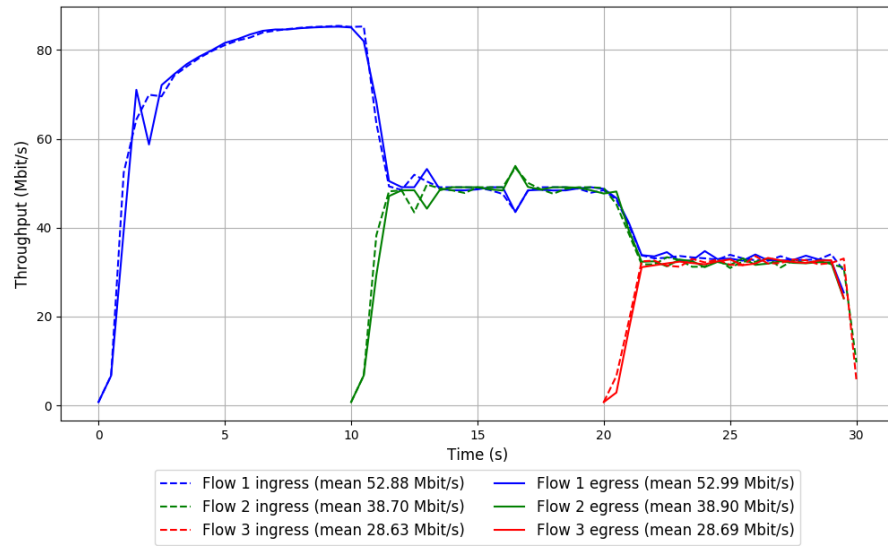


Run 7: Statistics of TCP Cubic

Start at: 2018-03-13 16:25:57
End at: 2018-03-13 16:26:27
Local clock offset: -2.078 ms
Remote clock offset: -0.777 ms

Below is generated by plot.py at 2018-03-13 22:00:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.20 Mbit/s
95th percentile per-packet one-way delay: 114.222 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 52.99 Mbit/s
95th percentile per-packet one-way delay: 115.152 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 38.90 Mbit/s
95th percentile per-packet one-way delay: 113.298 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 28.69 Mbit/s
95th percentile per-packet one-way delay: 114.152 ms
Loss rate: 3.62%

Run 7: Report of TCP Cubic — Data Link

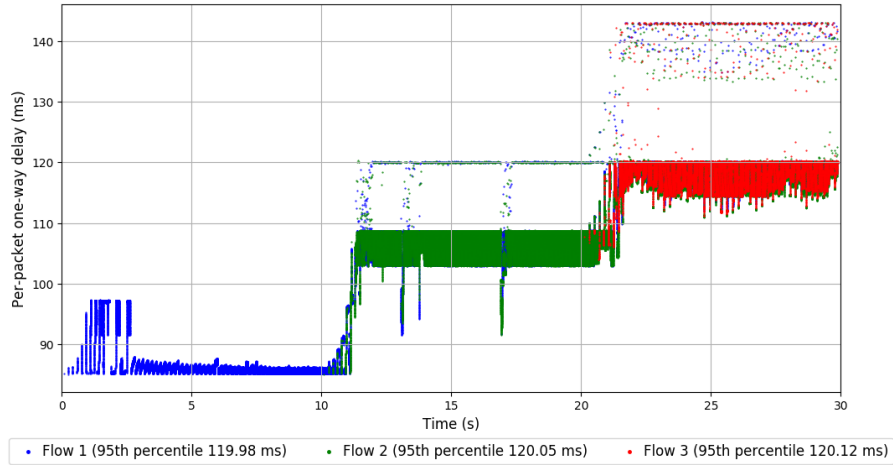
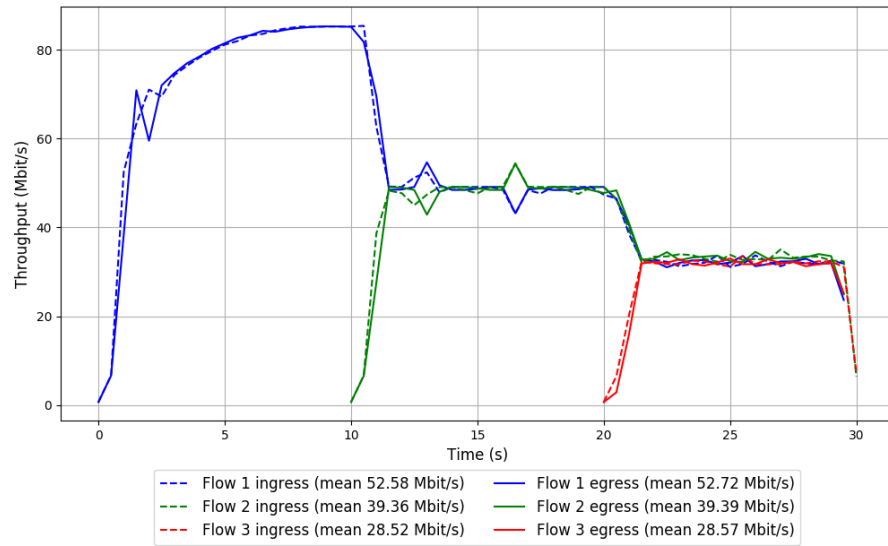


Run 8: Statistics of TCP Cubic

Start at: 2018-03-13 16:49:26
End at: 2018-03-13 16:49:56
Local clock offset: -3.18 ms
Remote clock offset: -4.902 ms

Below is generated by plot.py at 2018-03-13 22:00:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.19 Mbit/s
95th percentile per-packet one-way delay: 120.052 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 52.72 Mbit/s
95th percentile per-packet one-way delay: 119.981 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 39.39 Mbit/s
95th percentile per-packet one-way delay: 120.051 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 28.57 Mbit/s
95th percentile per-packet one-way delay: 120.117 ms
Loss rate: 3.71%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-03-13 17:12:59

End at: 2018-03-13 17:13:29

Local clock offset: -2.913 ms

Remote clock offset: 1.044 ms

Below is generated by plot.py at 2018-03-13 22:00:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.98 Mbit/s

95th percentile per-packet one-way delay: 114.497 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 52.77 Mbit/s

95th percentile per-packet one-way delay: 114.412 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 38.96 Mbit/s

95th percentile per-packet one-way delay: 114.564 ms

Loss rate: 1.39%

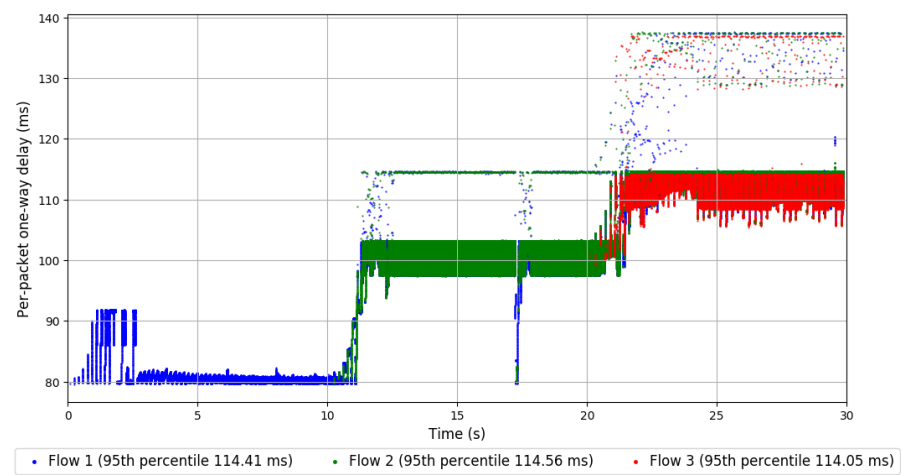
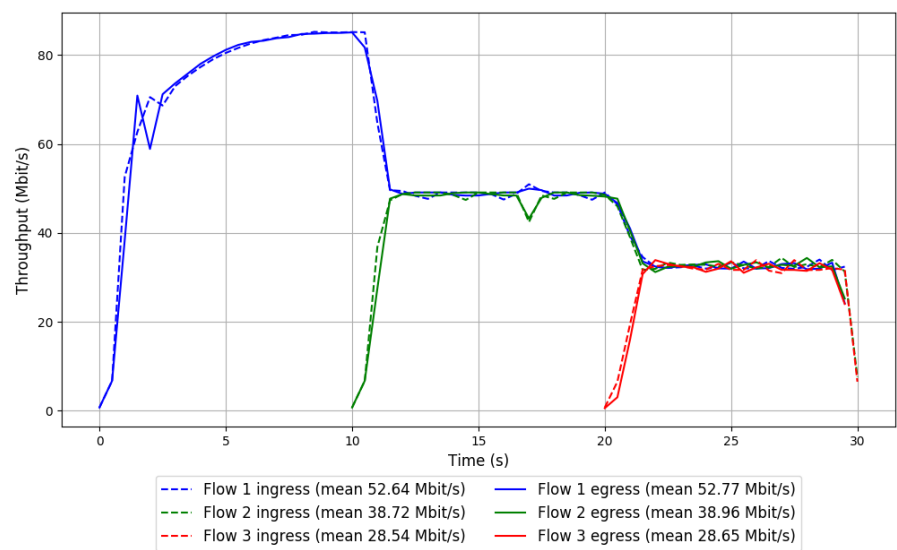
-- Flow 3:

Average throughput: 28.65 Mbit/s

95th percentile per-packet one-way delay: 114.046 ms

Loss rate: 3.68%

Run 9: Report of TCP Cubic — Data Link

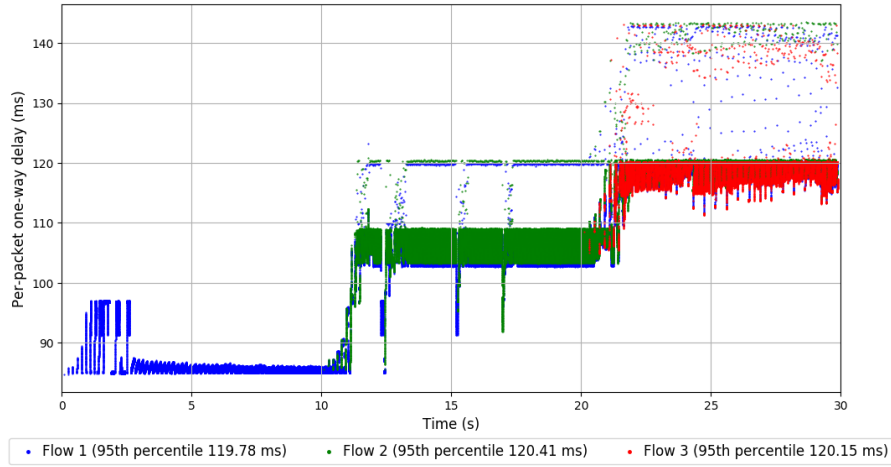
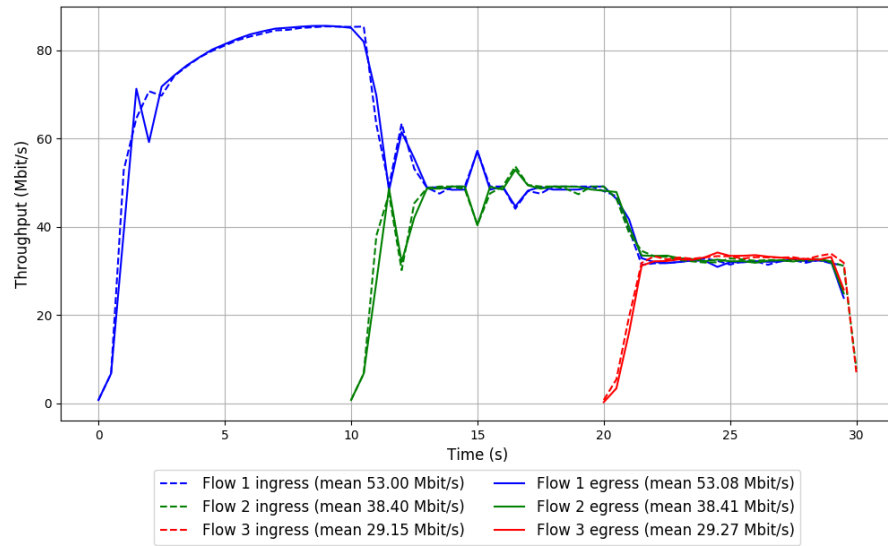


Run 10: Statistics of TCP Cubic

Start at: 2018-03-13 17:36:39
End at: 2018-03-13 17:37:09
Local clock offset: -4.47 ms
Remote clock offset: -4.804 ms

Below is generated by plot.py at 2018-03-13 22:00:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.15 Mbit/s
95th percentile per-packet one-way delay: 120.147 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 53.08 Mbit/s
95th percentile per-packet one-way delay: 119.778 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 38.41 Mbit/s
95th percentile per-packet one-way delay: 120.414 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 29.27 Mbit/s
95th percentile per-packet one-way delay: 120.153 ms
Loss rate: 3.62%

Run 10: Report of TCP Cubic — Data Link

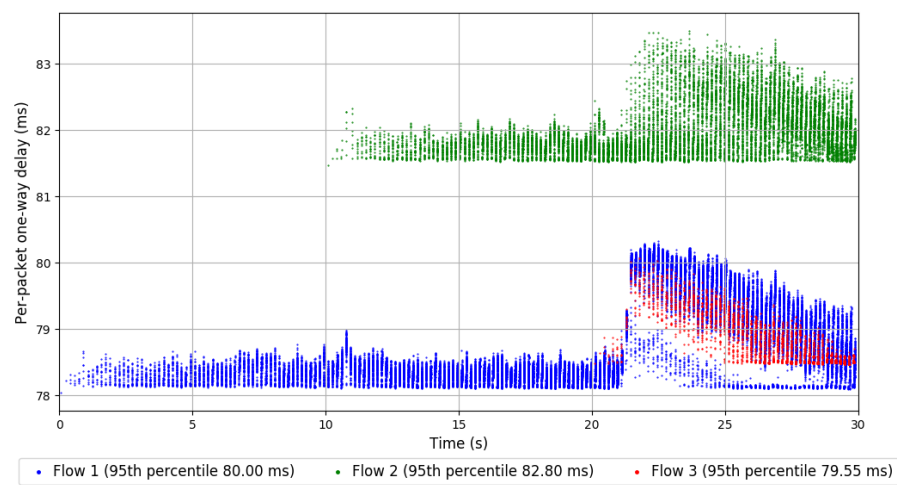
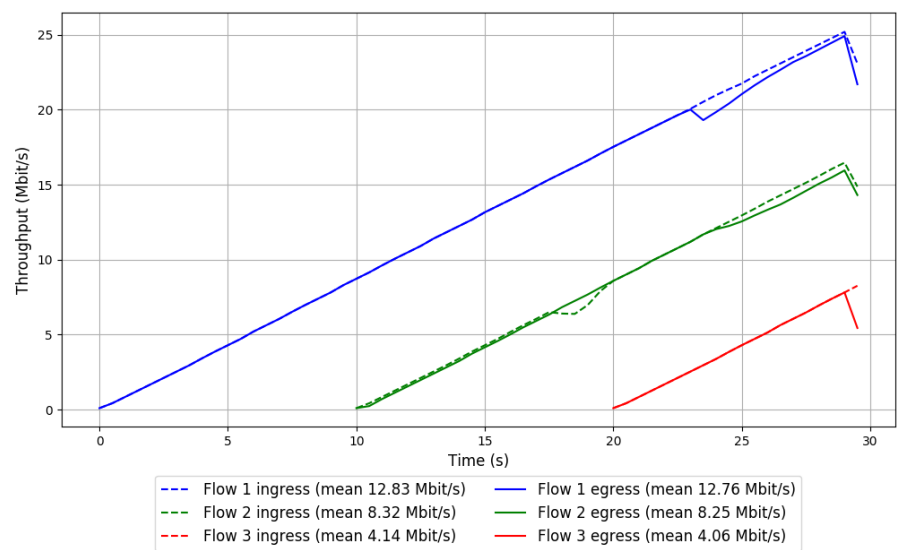


Run 1: Statistics of LEDBAT

Start at: 2018-03-13 14:11:00
End at: 2018-03-13 14:11:30
Local clock offset: -6.489 ms
Remote clock offset: -0.167 ms

Below is generated by plot.py at 2018-03-13 22:00:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.57 Mbit/s
95th percentile per-packet one-way delay: 82.397 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 12.76 Mbit/s
95th percentile per-packet one-way delay: 79.996 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 8.25 Mbit/s
95th percentile per-packet one-way delay: 82.802 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 4.06 Mbit/s
95th percentile per-packet one-way delay: 79.548 ms
Loss rate: 3.44%

Run 1: Report of LEDBAT — Data Link

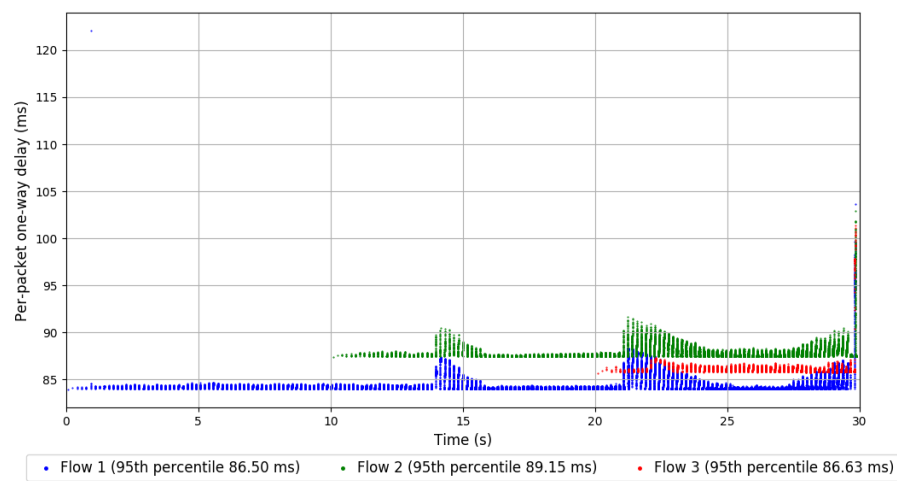
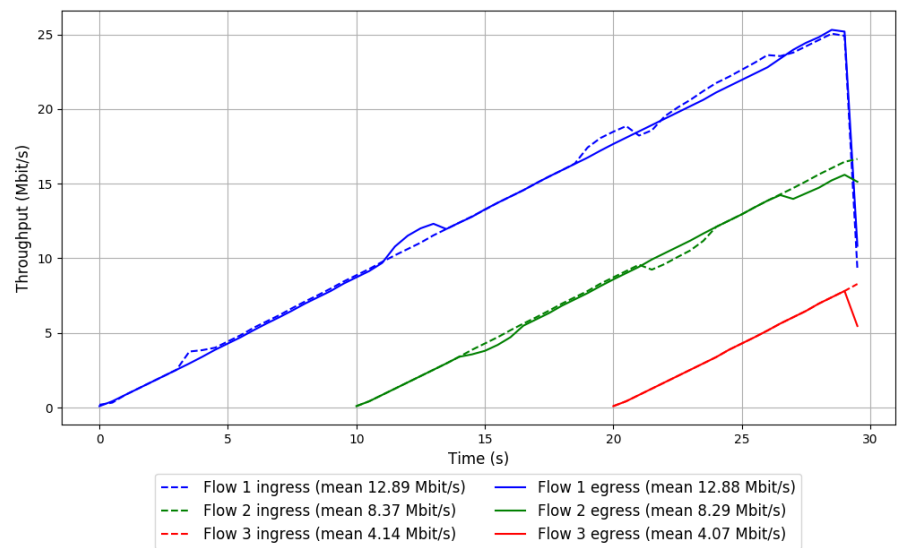


Run 2: Statistics of LEDBAT

Start at: 2018-03-13 14:34:33
End at: 2018-03-13 14:35:03
Local clock offset: -5.745 ms
Remote clock offset: -5.765 ms

Below is generated by plot.py at 2018-03-13 22:00:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.70 Mbit/s
95th percentile per-packet one-way delay: 88.267 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 12.88 Mbit/s
95th percentile per-packet one-way delay: 86.500 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 8.29 Mbit/s
95th percentile per-packet one-way delay: 89.150 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 4.07 Mbit/s
95th percentile per-packet one-way delay: 86.632 ms
Loss rate: 3.44%

Run 2: Report of LEDBAT — Data Link

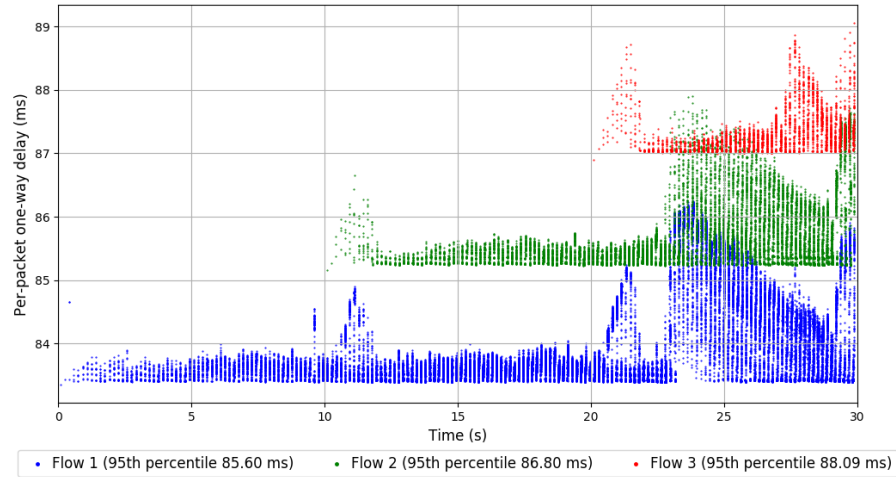
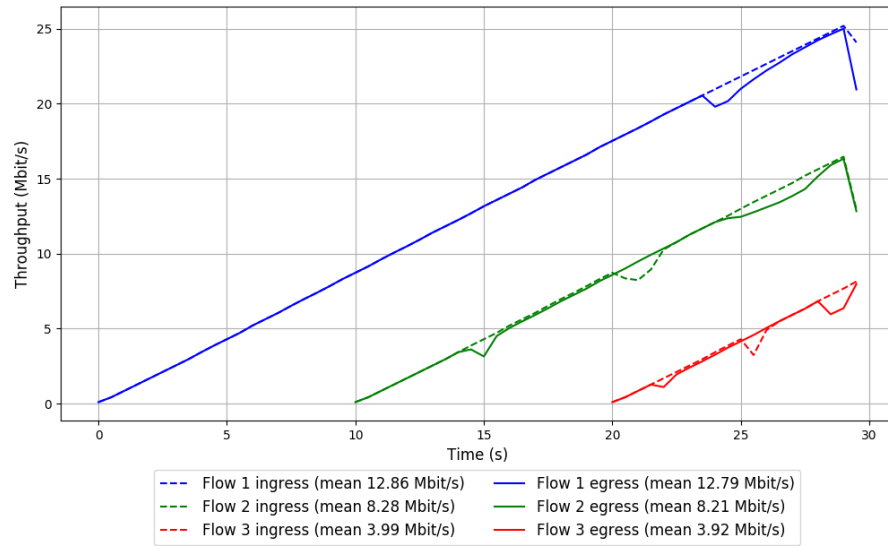


Run 3: Statistics of LEDBAT

Start at: 2018-03-13 14:58:09
End at: 2018-03-13 14:58:39
Local clock offset: -6.162 ms
Remote clock offset: -4.771 ms

Below is generated by plot.py at 2018-03-13 22:00:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.52 Mbit/s
95th percentile per-packet one-way delay: 87.154 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 12.79 Mbit/s
95th percentile per-packet one-way delay: 85.603 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 8.21 Mbit/s
95th percentile per-packet one-way delay: 86.804 ms
Loss rate: 1.71%
-- Flow 3:
Average throughput: 3.92 Mbit/s
95th percentile per-packet one-way delay: 88.089 ms
Loss rate: 3.49%

Run 3: Report of LEDBAT — Data Link

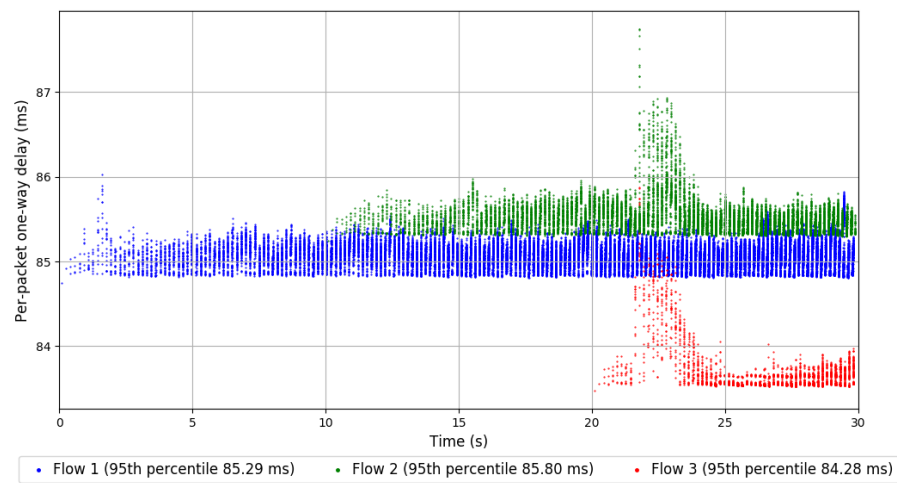
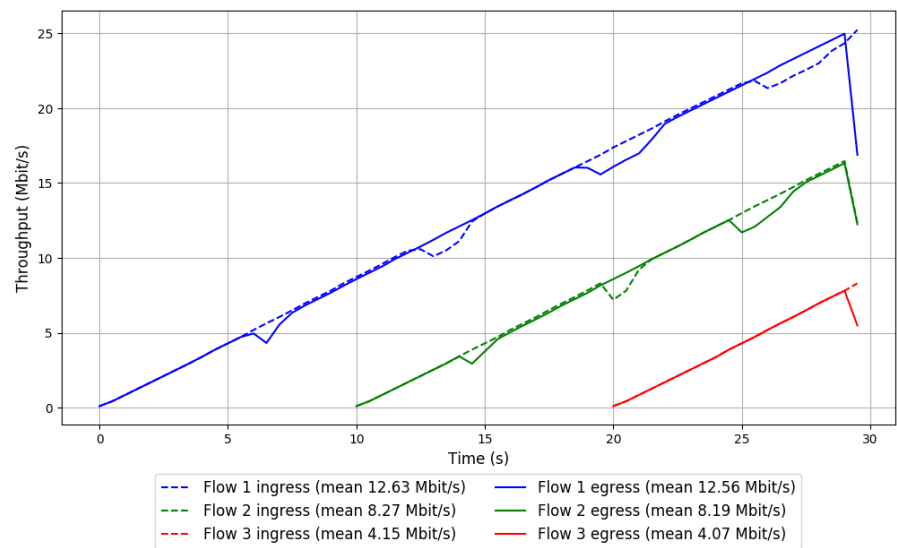


Run 4: Statistics of LEDBAT

Start at: 2018-03-13 15:21:52
End at: 2018-03-13 15:22:22
Local clock offset: -6.074 ms
Remote clock offset: -4.768 ms

Below is generated by plot.py at 2018-03-13 22:00:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.30 Mbit/s
95th percentile per-packet one-way delay: 85.623 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 12.56 Mbit/s
95th percentile per-packet one-way delay: 85.292 ms
Loss rate: 1.13%
-- Flow 2:
Average throughput: 8.19 Mbit/s
95th percentile per-packet one-way delay: 85.800 ms
Loss rate: 1.71%
-- Flow 3:
Average throughput: 4.07 Mbit/s
95th percentile per-packet one-way delay: 84.283 ms
Loss rate: 3.43%

Run 4: Report of LEDBAT — Data Link

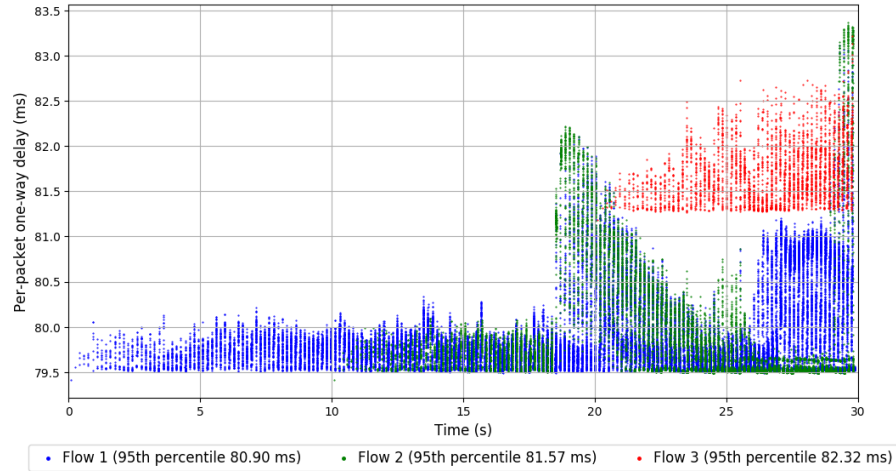
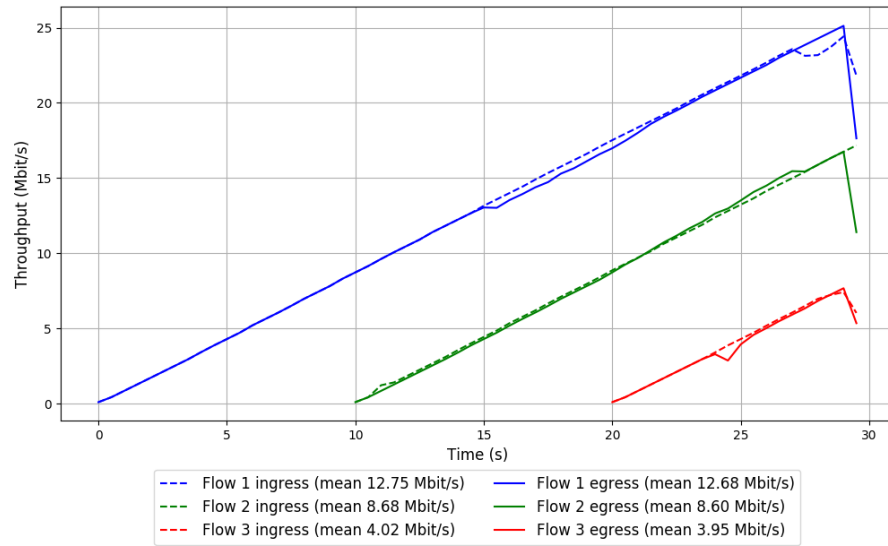


Run 5: Statistics of LEDBAT

Start at: 2018-03-13 15:45:26
End at: 2018-03-13 15:45:56
Local clock offset: -5.742 ms
Remote clock offset: -1.487 ms

Below is generated by plot.py at 2018-03-13 22:00:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.66 Mbit/s
95th percentile per-packet one-way delay: 81.646 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 12.68 Mbit/s
95th percentile per-packet one-way delay: 80.903 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 8.60 Mbit/s
95th percentile per-packet one-way delay: 81.572 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 3.95 Mbit/s
95th percentile per-packet one-way delay: 82.321 ms
Loss rate: 3.50%

Run 5: Report of LEDBAT — Data Link

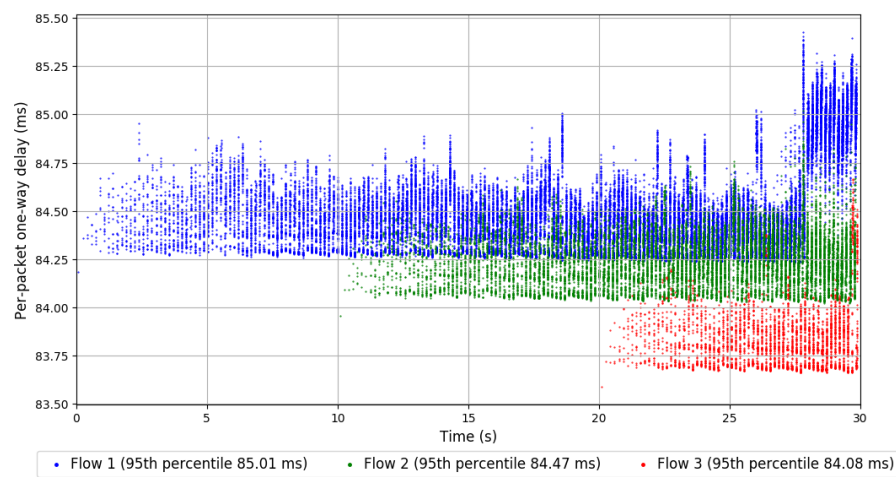
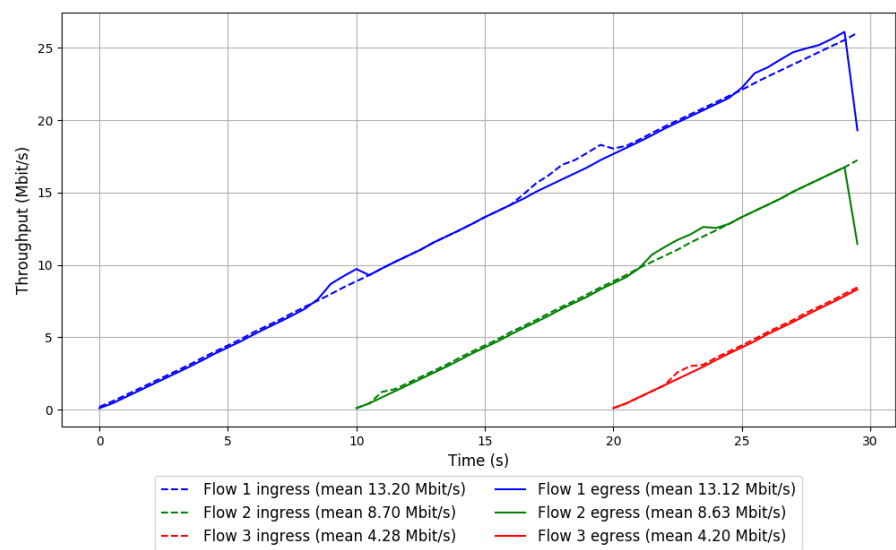


Run 6: Statistics of LEDBAT

Start at: 2018-03-13 16:08:59
End at: 2018-03-13 16:09:29
Local clock offset: -2.158 ms
Remote clock offset: -6.361 ms

Below is generated by plot.py at 2018-03-13 22:00:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 20.20 Mbit/s
95th percentile per-packet one-way delay: 84.942 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 13.12 Mbit/s
95th percentile per-packet one-way delay: 85.010 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 8.63 Mbit/s
95th percentile per-packet one-way delay: 84.466 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 84.082 ms
Loss rate: 3.37%

Run 6: Report of LEDBAT — Data Link

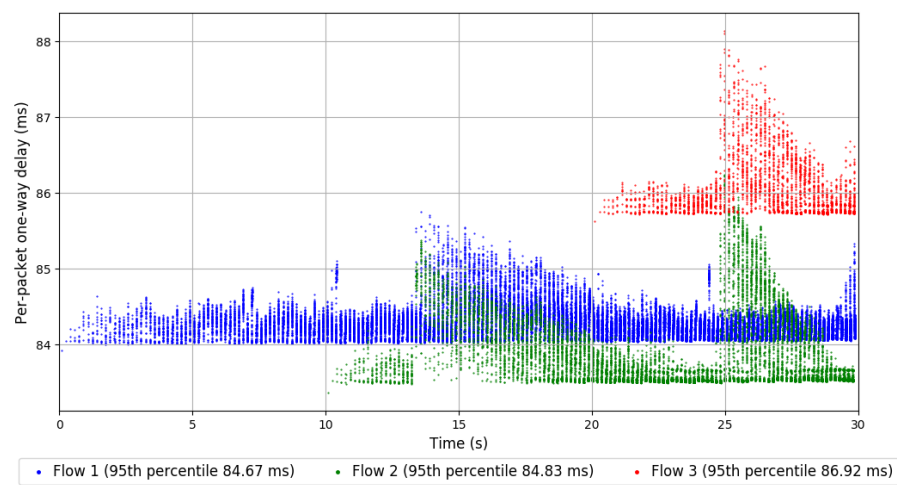
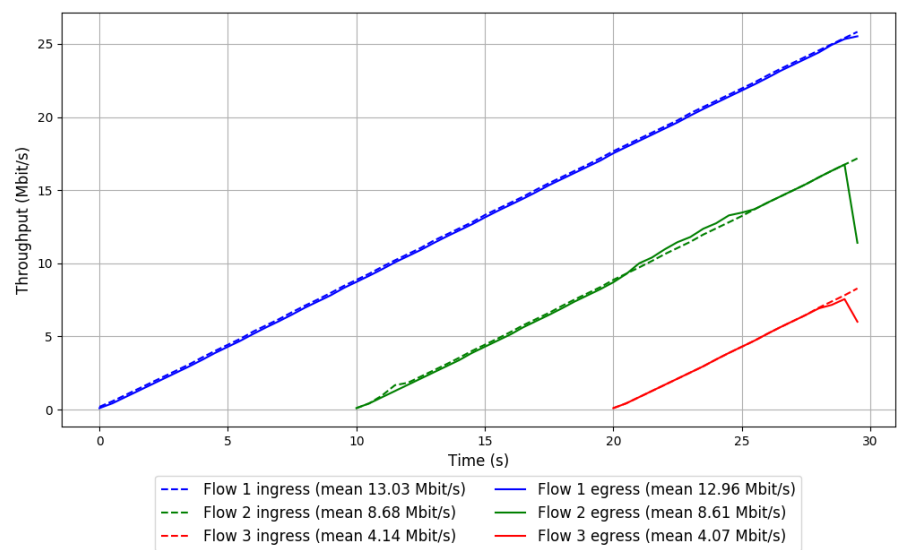


Run 7: Statistics of LEDBAT

Start at: 2018-03-13 16:32:30
End at: 2018-03-13 16:33:00
Local clock offset: -2.753 ms
Remote clock offset: -5.555 ms

Below is generated by plot.py at 2018-03-13 22:00:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.98 Mbit/s
95th percentile per-packet one-way delay: 85.761 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 12.96 Mbit/s
95th percentile per-packet one-way delay: 84.675 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 8.61 Mbit/s
95th percentile per-packet one-way delay: 84.835 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 4.07 Mbit/s
95th percentile per-packet one-way delay: 86.915 ms
Loss rate: 3.43%

Run 7: Report of LEDBAT — Data Link

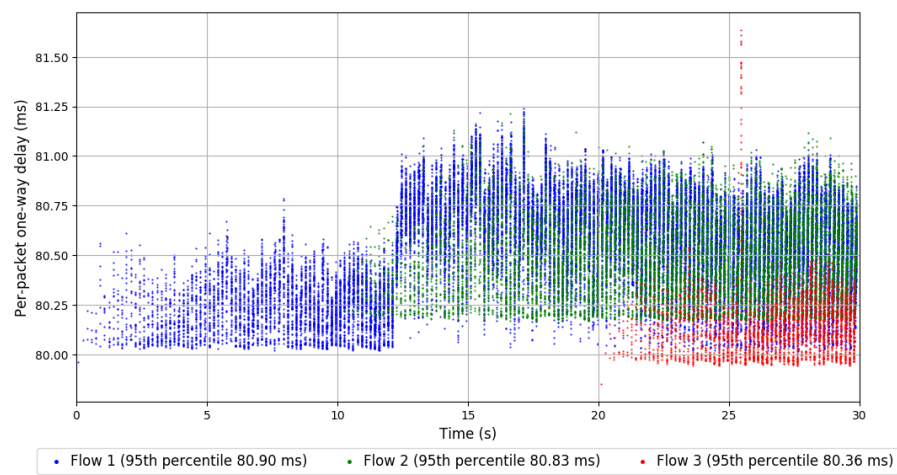
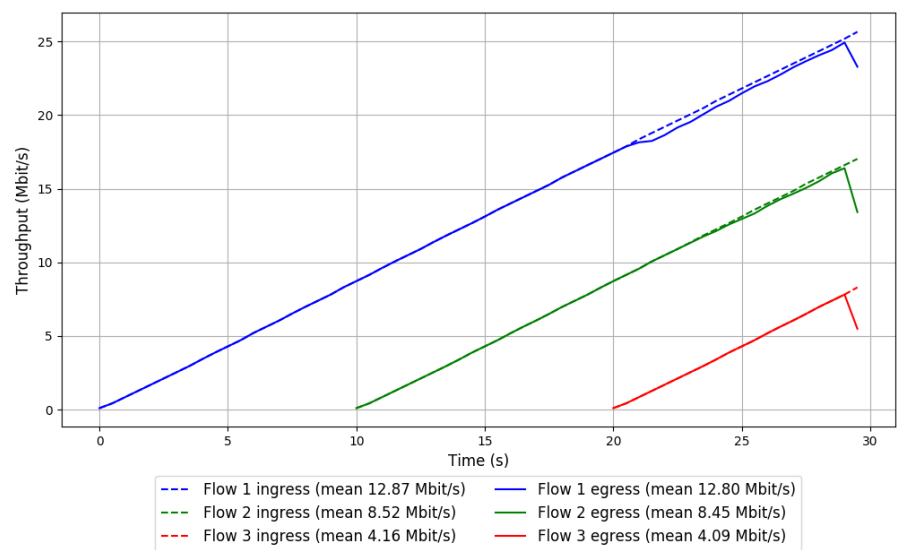


Run 8: Statistics of LEDBAT

Start at: 2018-03-13 16:55:59
End at: 2018-03-13 16:56:29
Local clock offset: -3.178 ms
Remote clock offset: 0.06 ms

```
# Below is generated by plot.py at 2018-03-13 22:00:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.74 Mbit/s
95th percentile per-packet one-way delay: 80.880 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 12.80 Mbit/s
95th percentile per-packet one-way delay: 80.900 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 8.45 Mbit/s
95th percentile per-packet one-way delay: 80.834 ms
Loss rate: 1.68%
-- Flow 3:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 80.362 ms
Loss rate: 3.43%
```

Run 8: Report of LEDBAT — Data Link

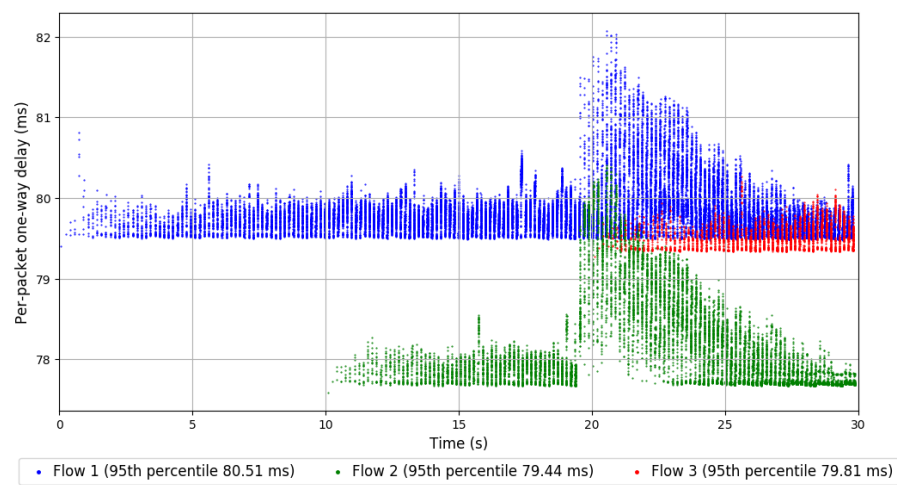
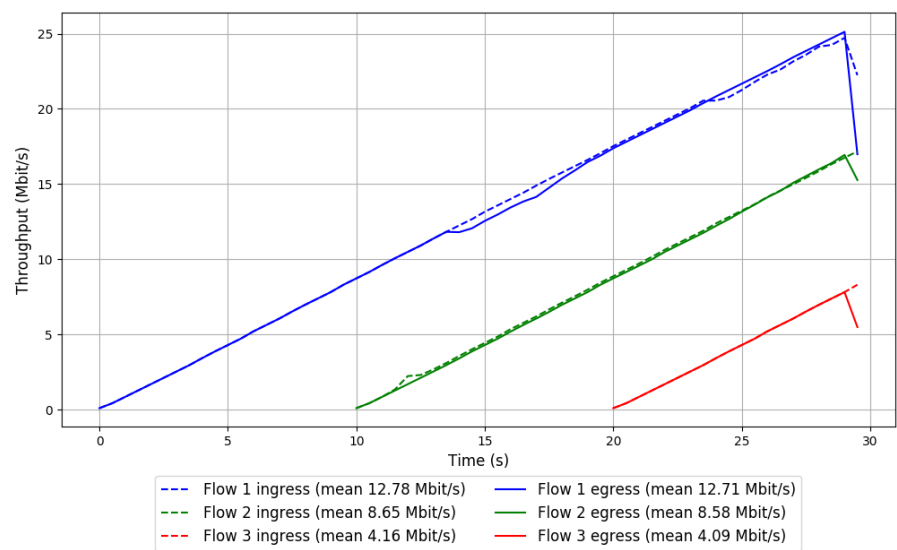


Run 9: Statistics of LEDBAT

Start at: 2018-03-13 17:19:31
End at: 2018-03-13 17:20:01
Local clock offset: -2.818 ms
Remote clock offset: 1.016 ms

Below is generated by plot.py at 2018-03-13 22:00:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.70 Mbit/s
95th percentile per-packet one-way delay: 80.317 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 12.71 Mbit/s
95th percentile per-packet one-way delay: 80.507 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 8.58 Mbit/s
95th percentile per-packet one-way delay: 79.436 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 79.813 ms
Loss rate: 3.43%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-03-13 17:43:11

End at: 2018-03-13 17:43:41

Local clock offset: -5.472 ms

Remote clock offset: -0.76 ms

Below is generated by plot.py at 2018-03-13 22:00:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.73 Mbit/s

95th percentile per-packet one-way delay: 82.550 ms

Loss rate: 1.44%

-- Flow 1:

Average throughput: 12.80 Mbit/s

95th percentile per-packet one-way delay: 82.595 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 8.47 Mbit/s

95th percentile per-packet one-way delay: 82.020 ms

Loss rate: 1.69%

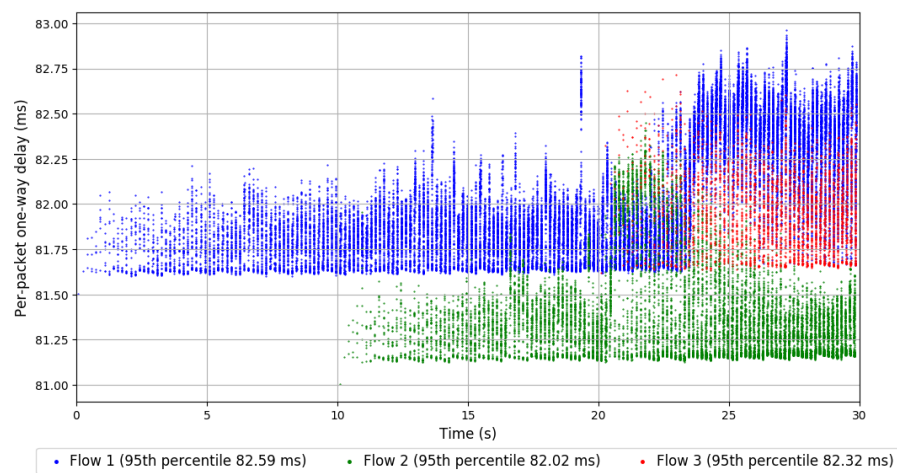
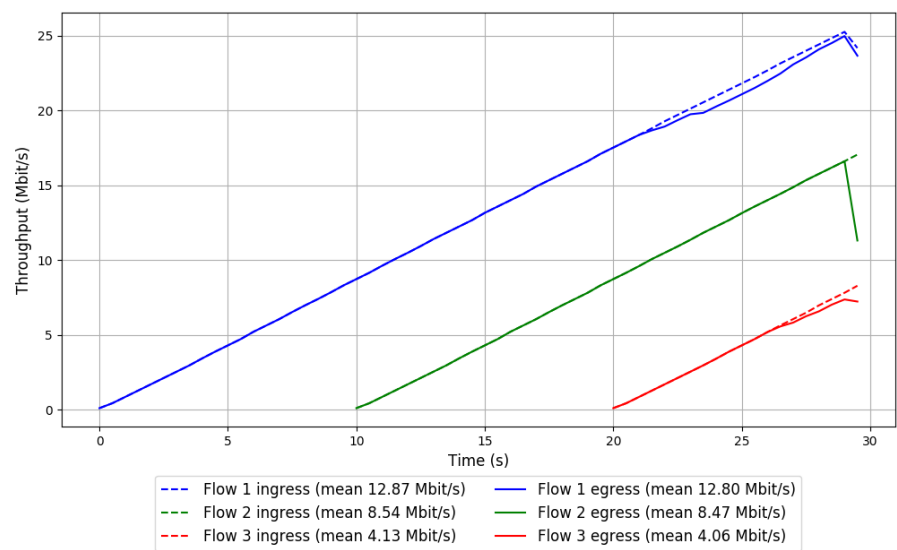
-- Flow 3:

Average throughput: 4.06 Mbit/s

95th percentile per-packet one-way delay: 82.323 ms

Loss rate: 3.43%

Run 10: Report of LEDBAT — Data Link

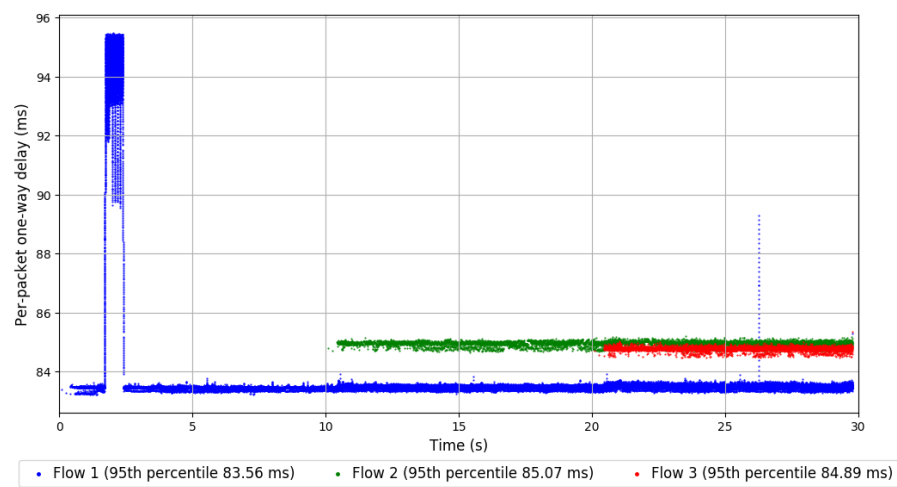
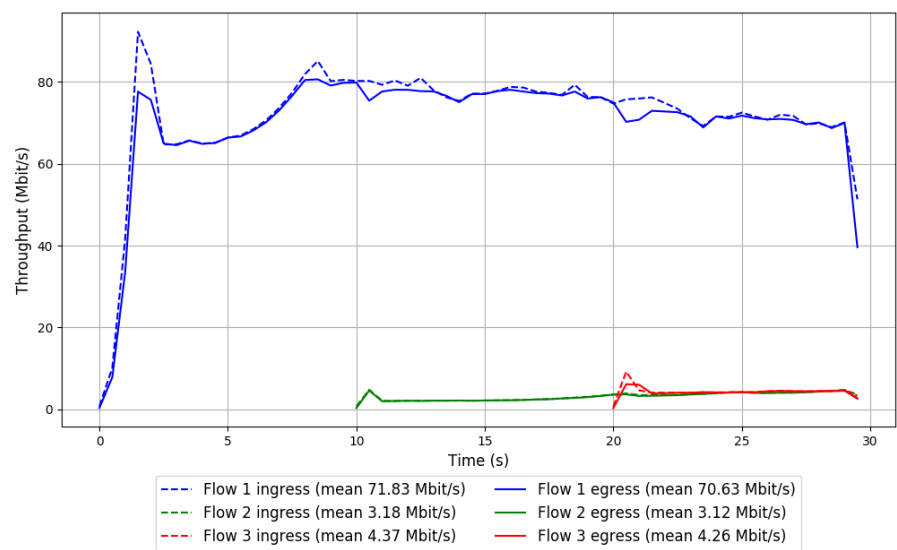


Run 1: Statistics of PCC

Start at: 2018-03-13 14:18:48
End at: 2018-03-13 14:19:18
Local clock offset: -6.012 ms
Remote clock offset: -4.968 ms

Below is generated by plot.py at 2018-03-13 22:01:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.09 Mbit/s
95th percentile per-packet one-way delay: 84.927 ms
Loss rate: 2.25%
-- Flow 1:
Average throughput: 70.63 Mbit/s
95th percentile per-packet one-way delay: 83.560 ms
Loss rate: 2.21%
-- Flow 2:
Average throughput: 3.12 Mbit/s
95th percentile per-packet one-way delay: 85.068 ms
Loss rate: 2.66%
-- Flow 3:
Average throughput: 4.26 Mbit/s
95th percentile per-packet one-way delay: 84.895 ms
Loss rate: 4.10%

Run 1: Report of PCC — Data Link

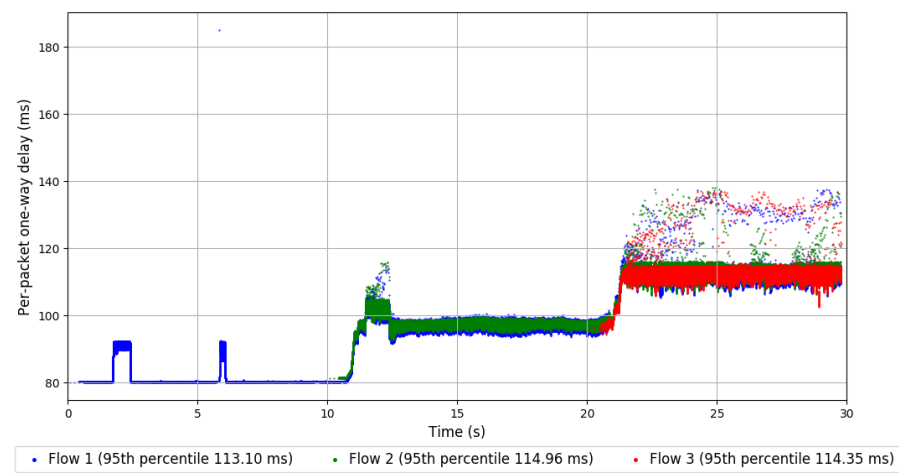
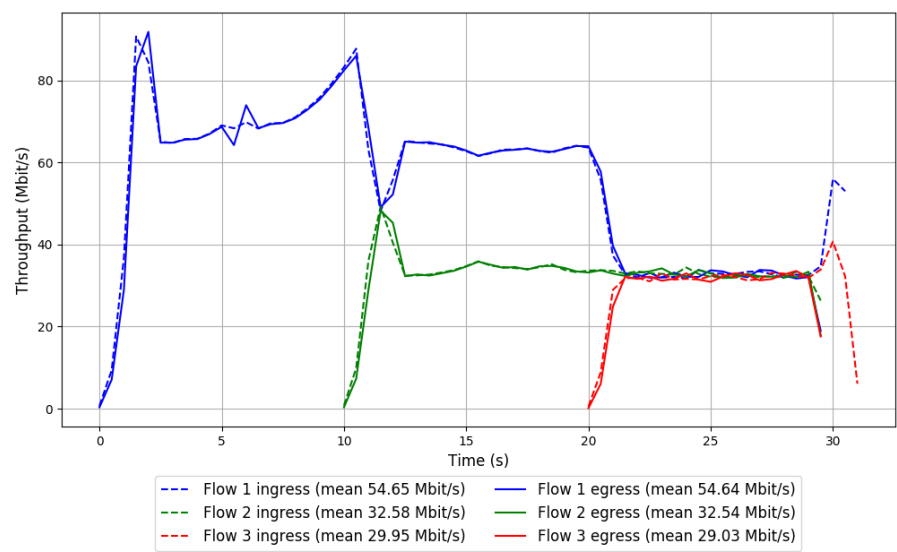


Run 2: Statistics of PCC

Start at: 2018-03-13 14:42:24
End at: 2018-03-13 14:42:54
Local clock offset: -5.795 ms
Remote clock offset: -0.718 ms

Below is generated by plot.py at 2018-03-13 22:01:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.66 Mbit/s
95th percentile per-packet one-way delay: 114.116 ms
Loss rate: 4.69%
-- Flow 1:
Average throughput: 54.64 Mbit/s
95th percentile per-packet one-way delay: 113.097 ms
Loss rate: 3.93%
-- Flow 2:
Average throughput: 32.54 Mbit/s
95th percentile per-packet one-way delay: 114.956 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 29.03 Mbit/s
95th percentile per-packet one-way delay: 114.351 ms
Loss rate: 15.40%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-03-13 15:06:07

End at: 2018-03-13 15:06:37

Local clock offset: -6.251 ms

Remote clock offset: 1.025 ms

Below is generated by plot.py at 2018-03-13 22:01:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.96 Mbit/s

95th percentile per-packet one-way delay: 112.146 ms

Loss rate: 4.54%

-- Flow 1:

Average throughput: 56.56 Mbit/s

95th percentile per-packet one-way delay: 110.814 ms

Loss rate: 4.04%

-- Flow 2:

Average throughput: 32.77 Mbit/s

95th percentile per-packet one-way delay: 111.853 ms

Loss rate: 1.15%

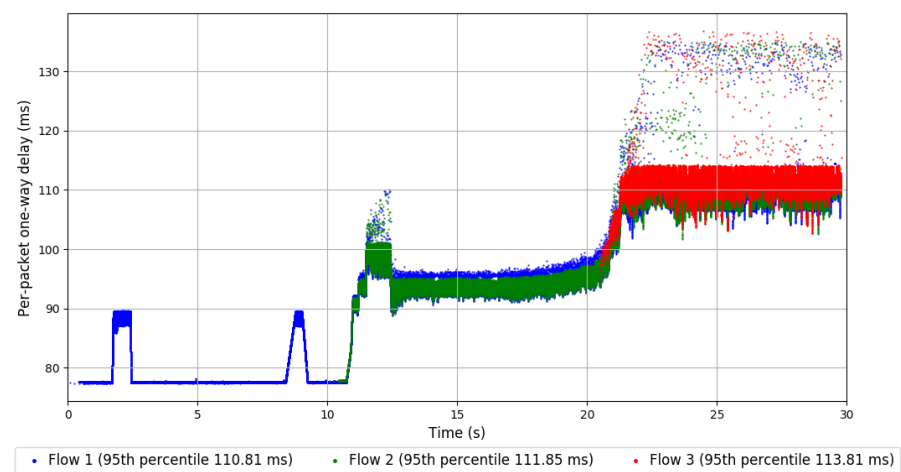
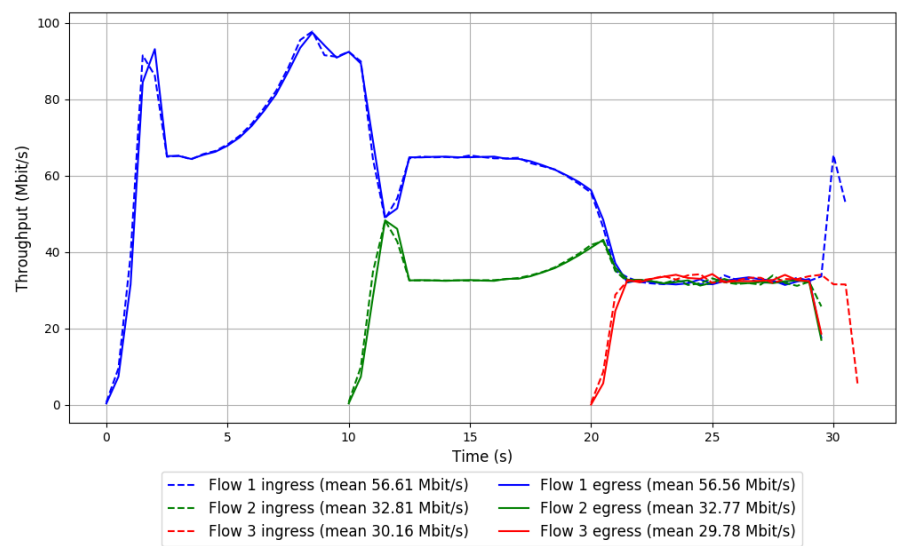
-- Flow 3:

Average throughput: 29.78 Mbit/s

95th percentile per-packet one-way delay: 113.809 ms

Loss rate: 13.77%

Run 3: Report of PCC — Data Link

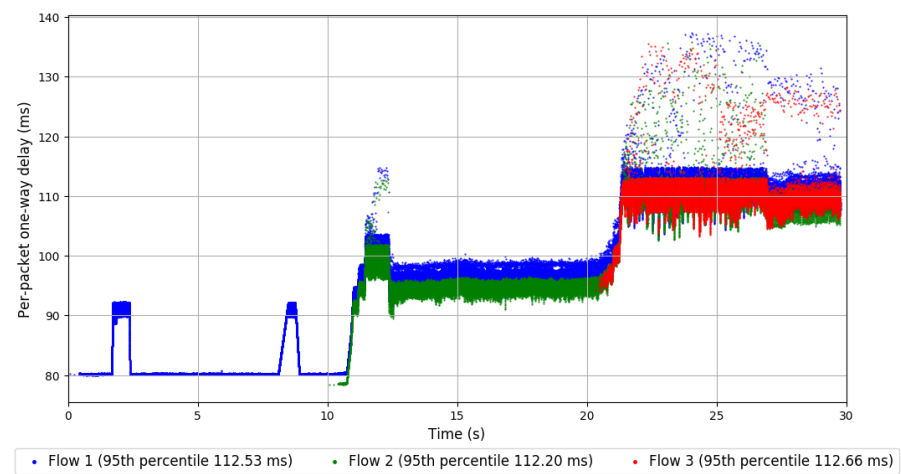
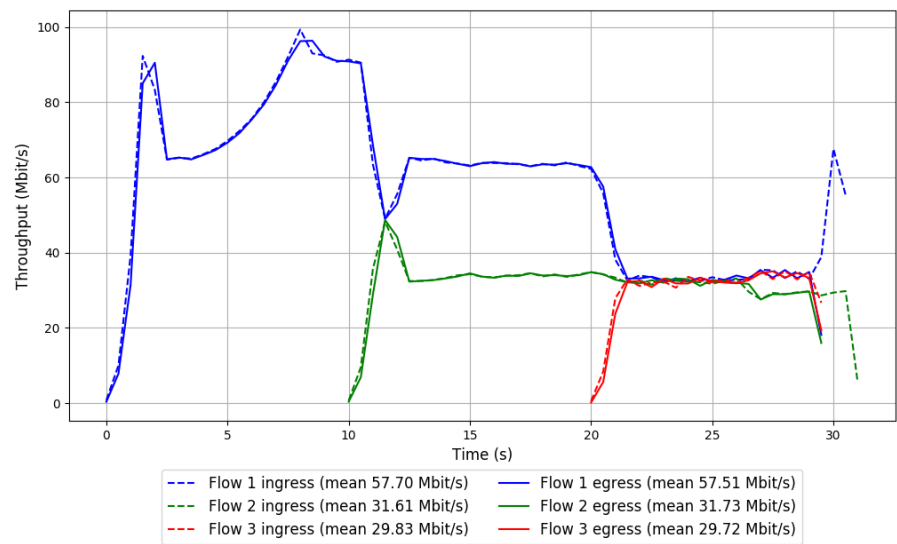


Run 4: Statistics of PCC

Start at: 2018-03-13 15:29:43
End at: 2018-03-13 15:30:13
Local clock offset: -5.854 ms
Remote clock offset: -0.263 ms

Below is generated by plot.py at 2018-03-13 22:01:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.22 Mbit/s
95th percentile per-packet one-way delay: 112.464 ms
Loss rate: 4.55%
-- Flow 1:
Average throughput: 57.51 Mbit/s
95th percentile per-packet one-way delay: 112.528 ms
Loss rate: 4.22%
-- Flow 2:
Average throughput: 31.73 Mbit/s
95th percentile per-packet one-way delay: 112.197 ms
Loss rate: 6.28%
-- Flow 3:
Average throughput: 29.72 Mbit/s
95th percentile per-packet one-way delay: 112.660 ms
Loss rate: 2.64%

Run 4: Report of PCC — Data Link

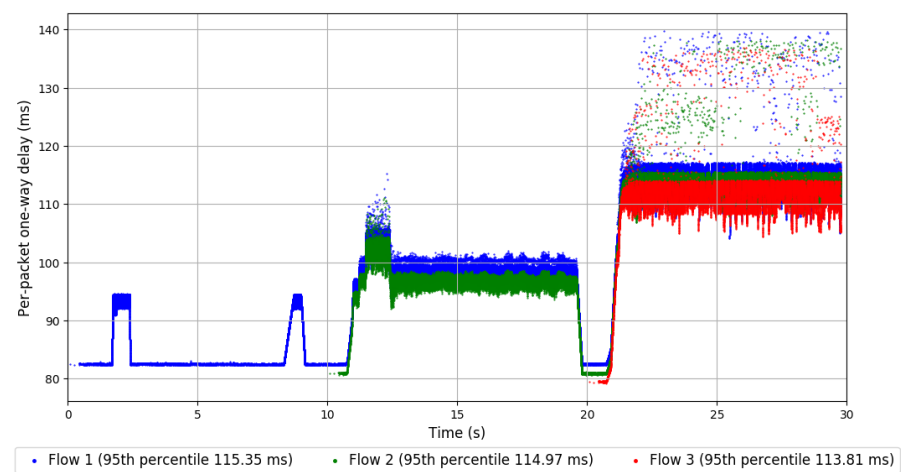
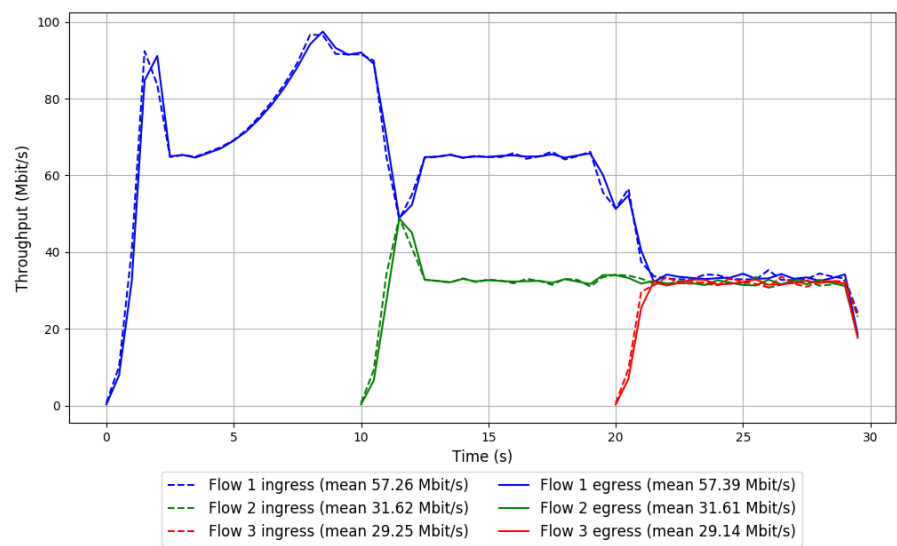


Run 5: Statistics of PCC

Start at: 2018-03-13 15:53:17
End at: 2018-03-13 15:53:47
Local clock offset: -4.207 ms
Remote clock offset: -1.642 ms

Below is generated by plot.py at 2018-03-13 22:01:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.83 Mbit/s
95th percentile per-packet one-way delay: 115.072 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 57.39 Mbit/s
95th percentile per-packet one-way delay: 115.351 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 31.61 Mbit/s
95th percentile per-packet one-way delay: 114.975 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 29.14 Mbit/s
95th percentile per-packet one-way delay: 113.813 ms
Loss rate: 2.26%

Run 5: Report of PCC — Data Link

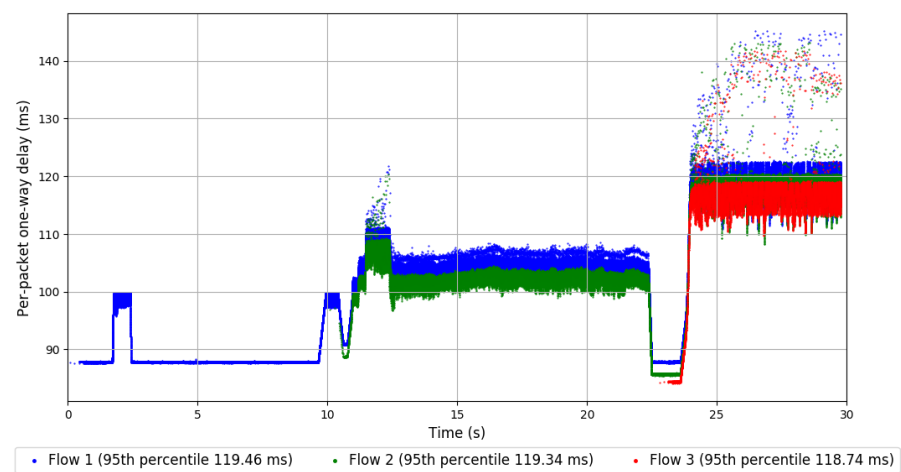
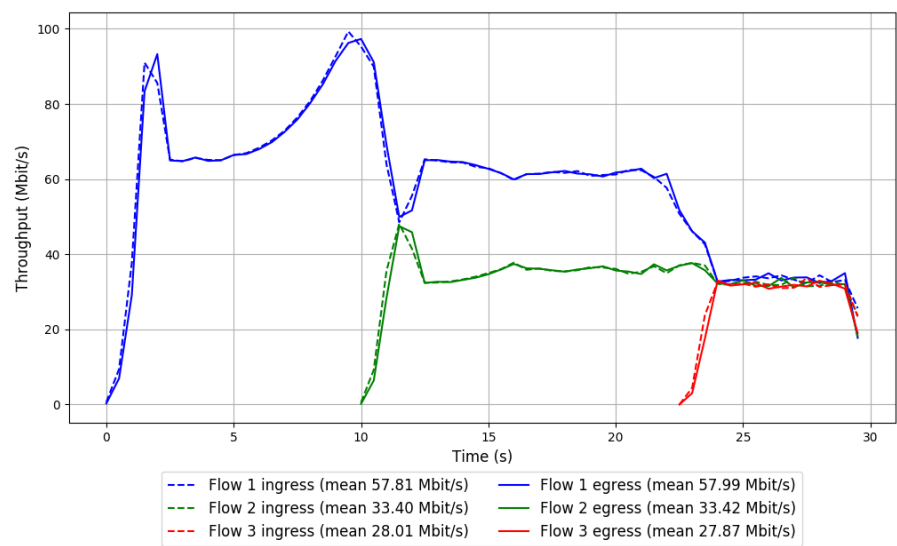


Run 6: Statistics of PCC

Start at: 2018-03-13 16:16:50
End at: 2018-03-13 16:17:20
Local clock offset: -1.66 ms
Remote clock offset: -6.423 ms

Below is generated by plot.py at 2018-03-13 22:02:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.66 Mbit/s
95th percentile per-packet one-way delay: 119.288 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 57.99 Mbit/s
95th percentile per-packet one-way delay: 119.459 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 33.42 Mbit/s
95th percentile per-packet one-way delay: 119.343 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 27.87 Mbit/s
95th percentile per-packet one-way delay: 118.736 ms
Loss rate: 3.08%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-03-13 16:40:20

End at: 2018-03-13 16:40:50

Local clock offset: -3.108 ms

Remote clock offset: 0.732 ms

Below is generated by plot.py at 2018-03-13 22:02:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.09 Mbit/s

95th percentile per-packet one-way delay: 112.881 ms

Loss rate: 4.61%

-- Flow 1:

Average throughput: 56.76 Mbit/s

95th percentile per-packet one-way delay: 112.613 ms

Loss rate: 3.77%

-- Flow 2:

Average throughput: 32.75 Mbit/s

95th percentile per-packet one-way delay: 111.328 ms

Loss rate: 1.16%

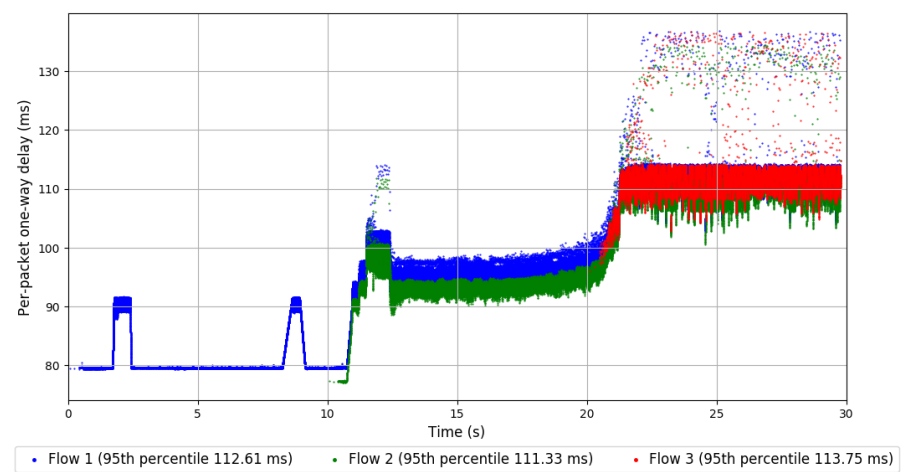
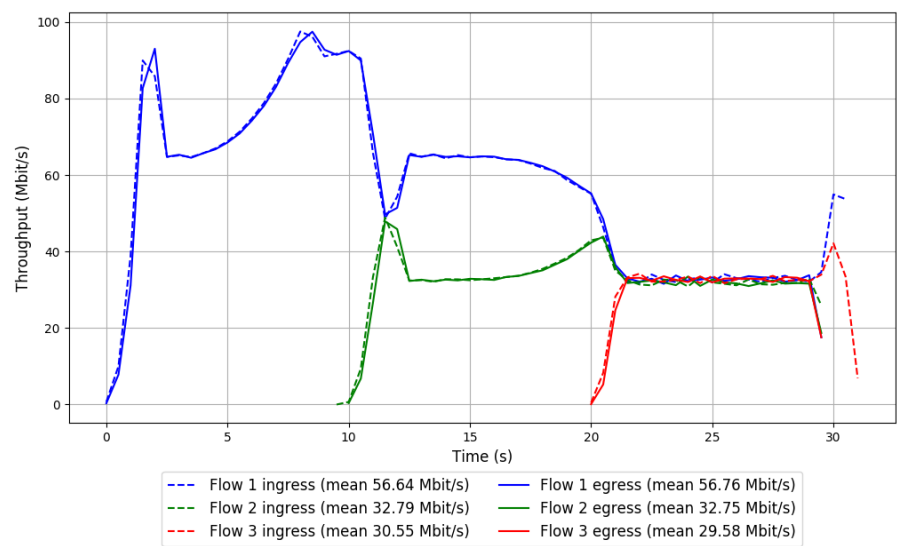
-- Flow 3:

Average throughput: 29.58 Mbit/s

95th percentile per-packet one-way delay: 113.747 ms

Loss rate: 15.57%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-03-13 17:03:49

End at: 2018-03-13 17:04:19

Local clock offset: -3.03 ms

Remote clock offset: 1.183 ms

Below is generated by plot.py at 2018-03-13 22:02:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.95 Mbit/s

95th percentile per-packet one-way delay: 112.737 ms

Loss rate: 5.44%

-- Flow 1:

Average throughput: 57.05 Mbit/s

95th percentile per-packet one-way delay: 112.517 ms

Loss rate: 5.53%

-- Flow 2:

Average throughput: 32.02 Mbit/s

95th percentile per-packet one-way delay: 111.508 ms

Loss rate: 1.00%

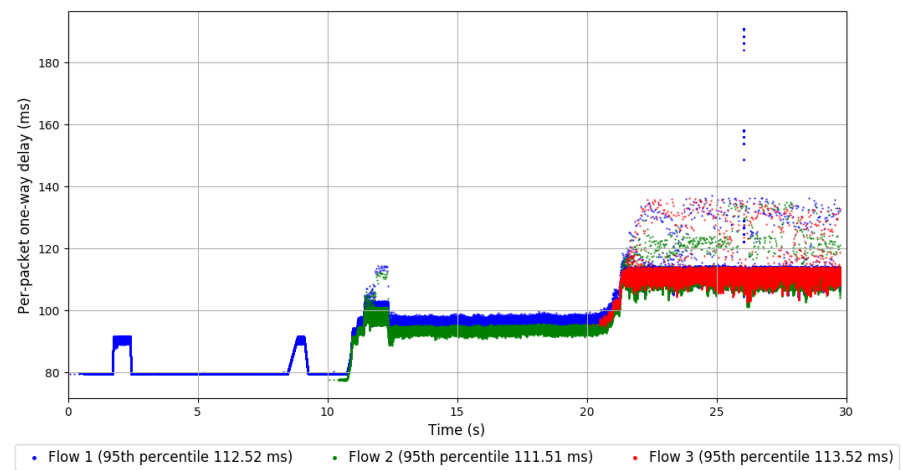
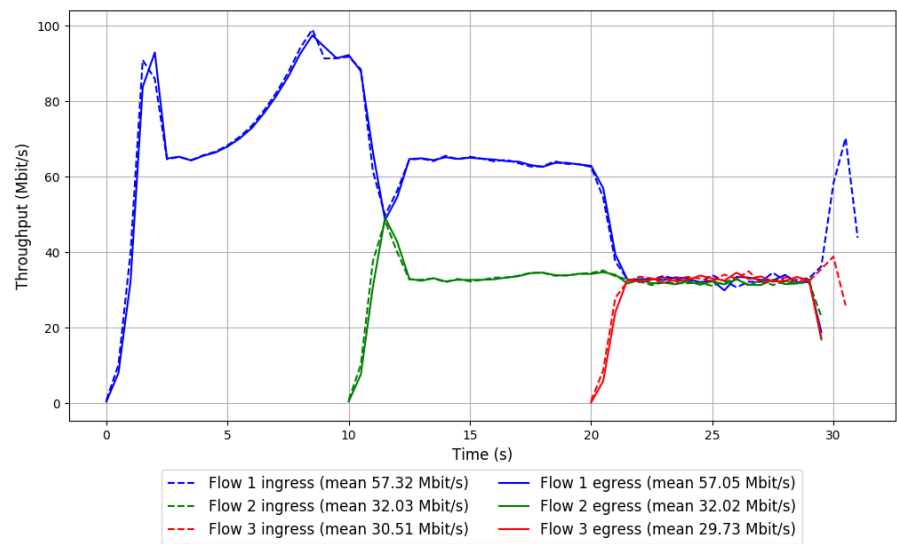
-- Flow 3:

Average throughput: 29.73 Mbit/s

95th percentile per-packet one-way delay: 113.524 ms

Loss rate: 13.50%

Run 8: Report of PCC — Data Link

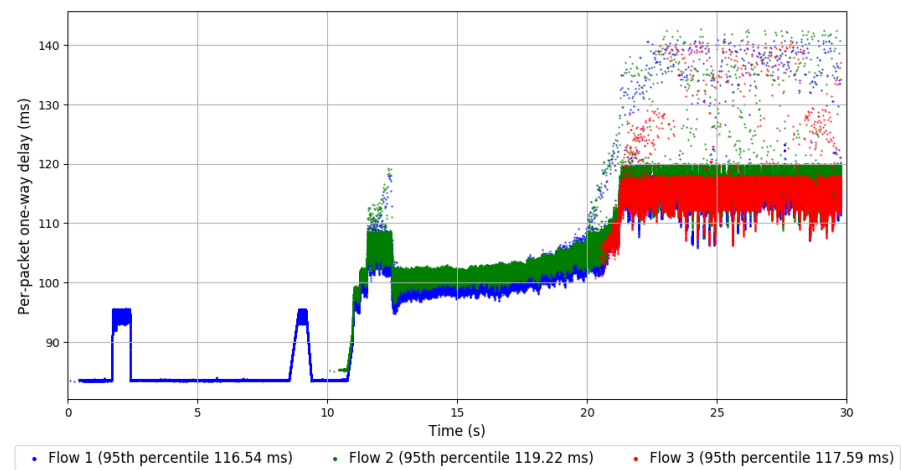
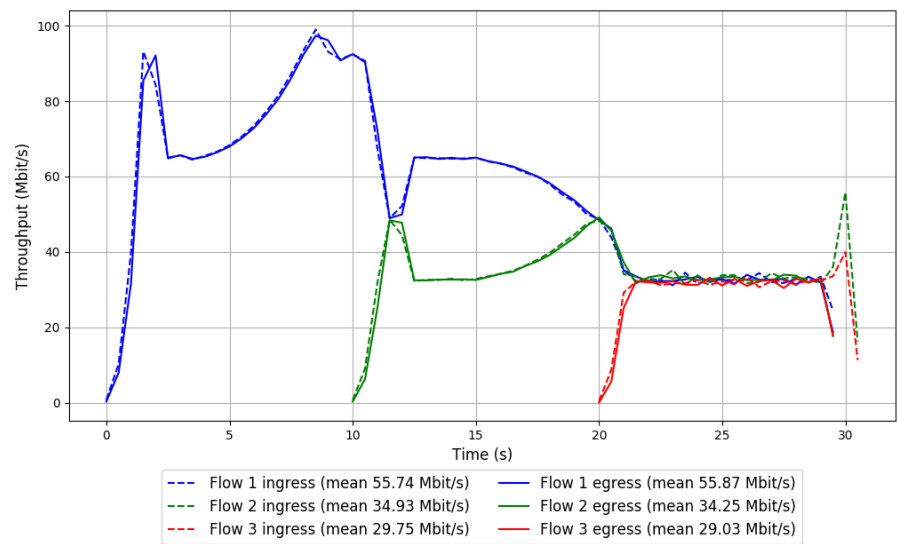


Run 9: Statistics of PCC

Start at: 2018-03-13 17:27:21
End at: 2018-03-13 17:27:51
Local clock offset: -2.733 ms
Remote clock offset: -4.887 ms

Below is generated by plot.py at 2018-03-13 22:02:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.98 Mbit/s
95th percentile per-packet one-way delay: 117.811 ms
Loss rate: 3.43%
-- Flow 1:
Average throughput: 55.87 Mbit/s
95th percentile per-packet one-way delay: 116.541 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 34.25 Mbit/s
95th percentile per-packet one-way delay: 119.223 ms
Loss rate: 6.72%
-- Flow 3:
Average throughput: 29.03 Mbit/s
95th percentile per-packet one-way delay: 117.595 ms
Loss rate: 11.72%

Run 9: Report of PCC — Data Link

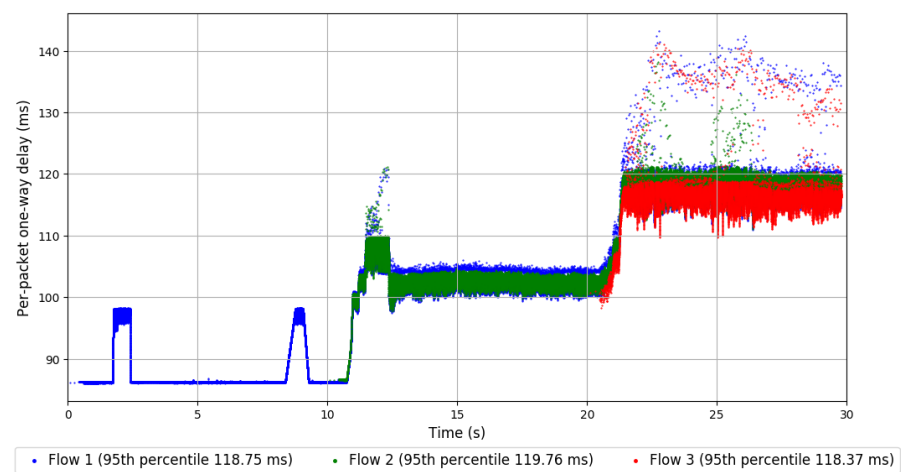
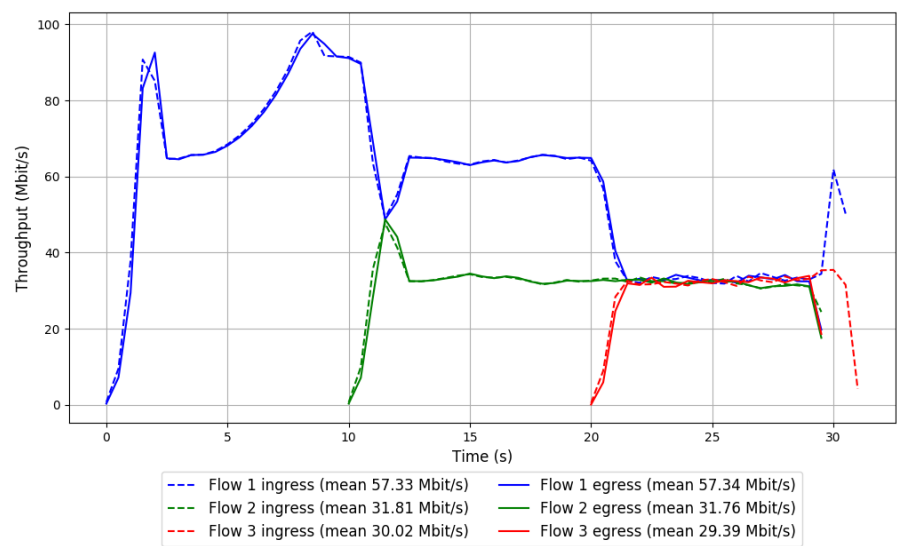


Run 10: Statistics of PCC

Start at: 2018-03-13 17:51:01
End at: 2018-03-13 17:51:31
Local clock offset: -6.128 ms
Remote clock offset: -5.768 ms

Below is generated by plot.py at 2018-03-13 22:02:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.96 Mbit/s
95th percentile per-packet one-way delay: 119.172 ms
Loss rate: 4.47%
-- Flow 1:
Average throughput: 57.34 Mbit/s
95th percentile per-packet one-way delay: 118.754 ms
Loss rate: 3.83%
-- Flow 2:
Average throughput: 31.76 Mbit/s
95th percentile per-packet one-way delay: 119.757 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 29.39 Mbit/s
95th percentile per-packet one-way delay: 118.370 ms
Loss rate: 14.31%

Run 10: Report of PCC — Data Link

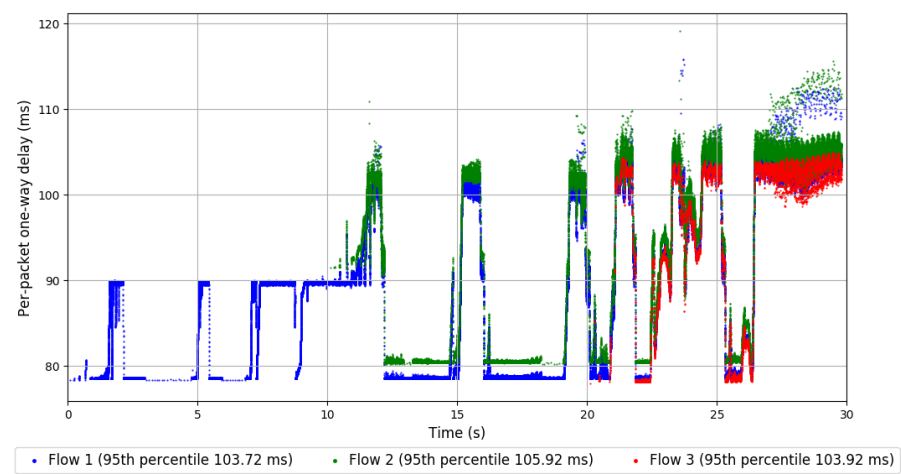
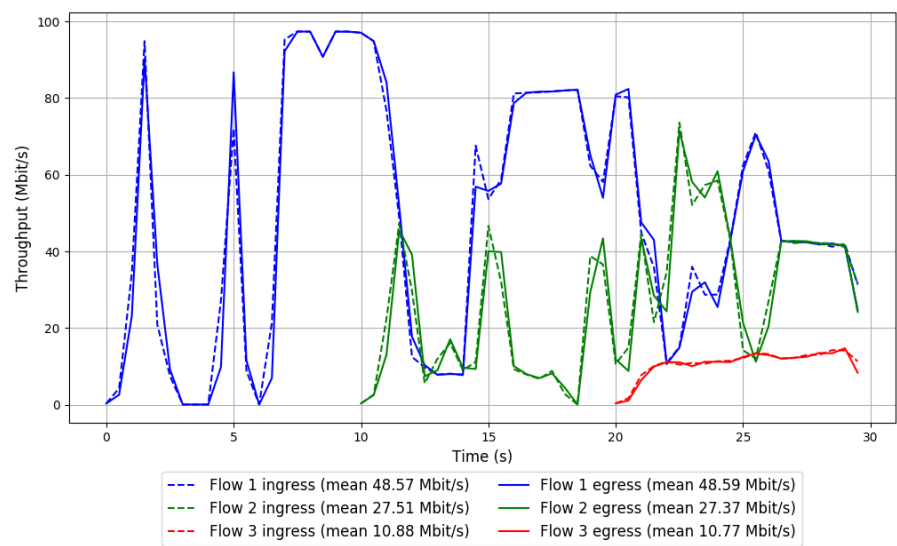


Run 1: Statistics of QUIC Cubic

Start at: 2018-03-13 14:03:10
End at: 2018-03-13 14:03:40
Local clock offset: -6.951 ms
Remote clock offset: -0.339 ms

Below is generated by plot.py at 2018-03-13 22:03:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 70.23 Mbit/s
95th percentile per-packet one-way delay: 105.022 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 48.59 Mbit/s
95th percentile per-packet one-way delay: 103.716 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 27.37 Mbit/s
95th percentile per-packet one-way delay: 105.917 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 10.77 Mbit/s
95th percentile per-packet one-way delay: 103.920 ms
Loss rate: 2.64%

Run 1: Report of QUIC Cubic — Data Link

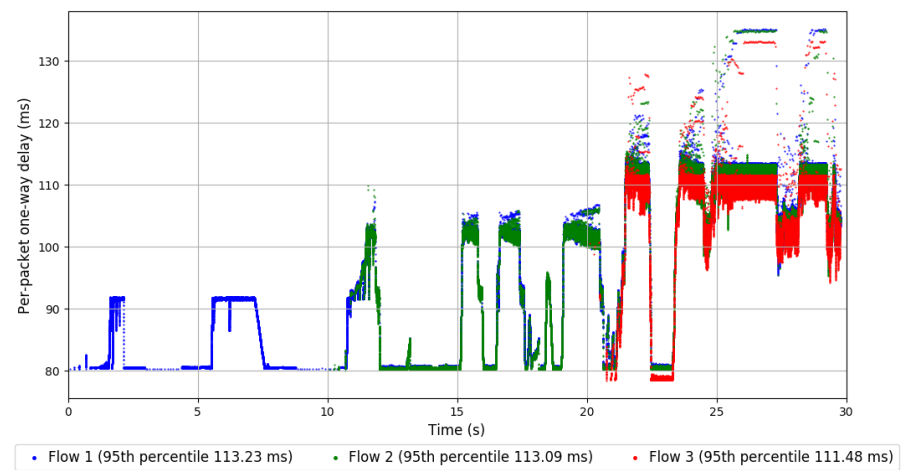
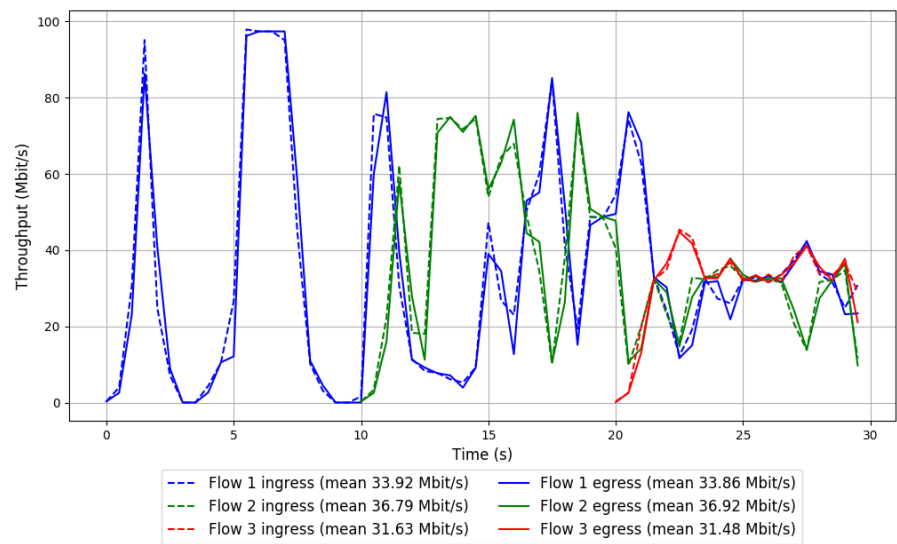


Run 2: Statistics of QUIC Cubic

Start at: 2018-03-13 14:26:40
End at: 2018-03-13 14:27:10
Local clock offset: -5.787 ms
Remote clock offset: -0.151 ms

Below is generated by plot.py at 2018-03-13 22:03:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.58 Mbit/s
95th percentile per-packet one-way delay: 113.085 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 33.86 Mbit/s
95th percentile per-packet one-way delay: 113.235 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 36.92 Mbit/s
95th percentile per-packet one-way delay: 113.089 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 31.48 Mbit/s
95th percentile per-packet one-way delay: 111.479 ms
Loss rate: 2.36%

Run 2: Report of QUIC Cubic — Data Link

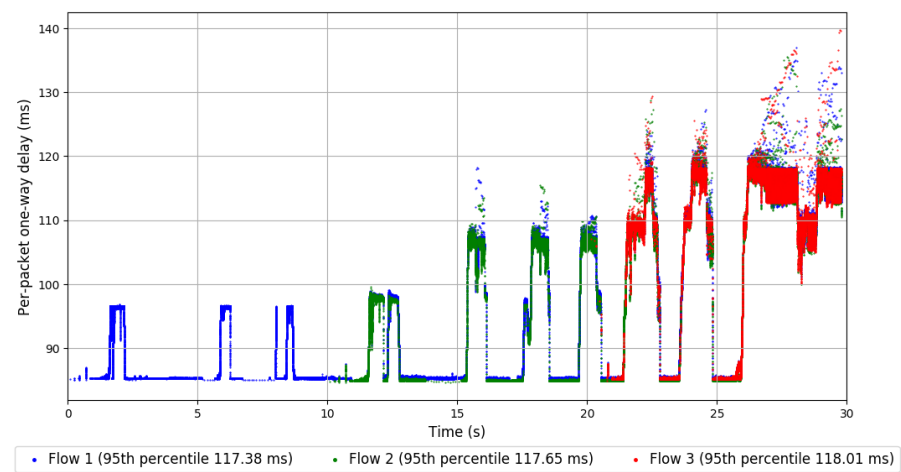
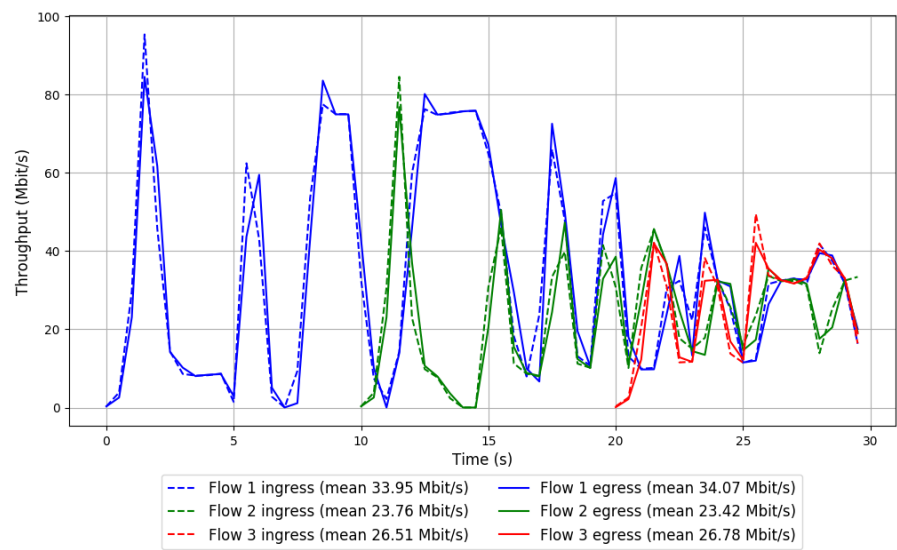


Run 3: Statistics of QUIC Cubic

Start at: 2018-03-13 14:50:16
End at: 2018-03-13 14:50:46
Local clock offset: -6.04 ms
Remote clock offset: -4.655 ms

Below is generated by plot.py at 2018-03-13 22:03:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 58.30 Mbit/s
95th percentile per-packet one-way delay: 117.683 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 34.07 Mbit/s
95th percentile per-packet one-way delay: 117.382 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 23.42 Mbit/s
95th percentile per-packet one-way delay: 117.647 ms
Loss rate: 2.26%
-- Flow 3:
Average throughput: 26.78 Mbit/s
95th percentile per-packet one-way delay: 118.009 ms
Loss rate: 1.02%

Run 3: Report of QUIC Cubic — Data Link

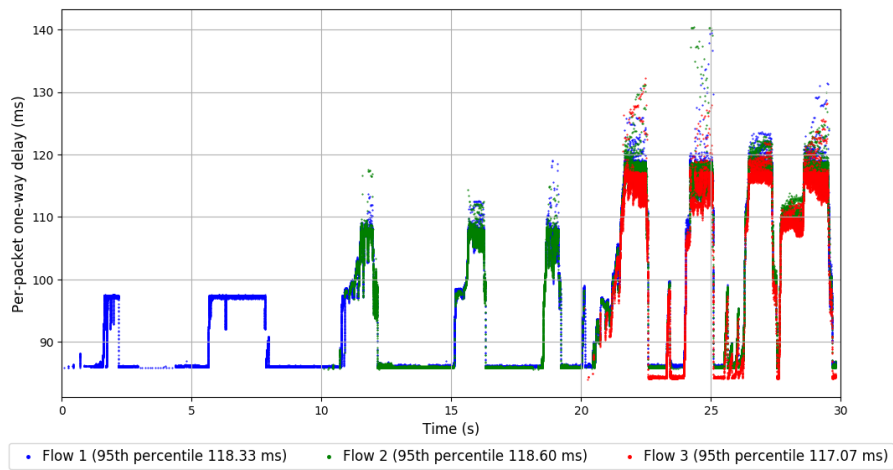
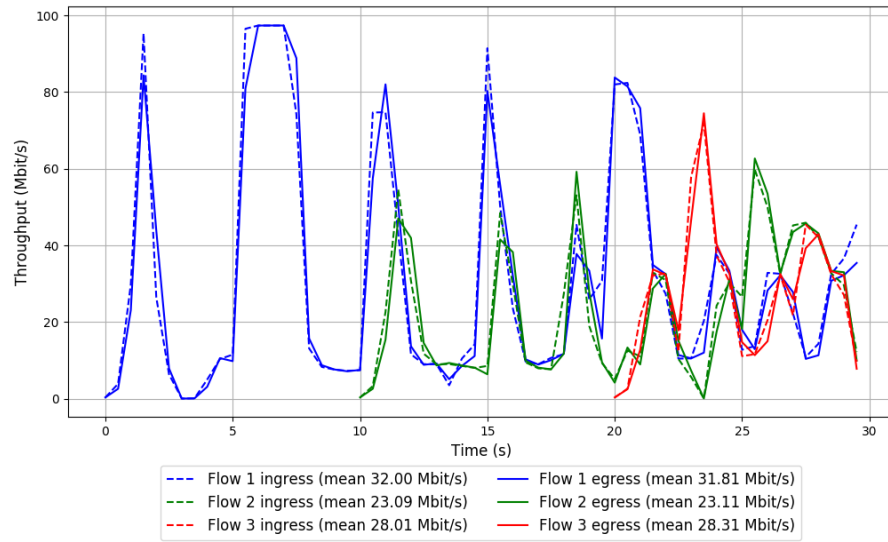


Run 4: Statistics of QUIC Cubic

Start at: 2018-03-13 15:13:59
End at: 2018-03-13 15:14:29
Local clock offset: -6.373 ms
Remote clock offset: -5.652 ms

Below is generated by plot.py at 2018-03-13 22:03:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 56.36 Mbit/s
95th percentile per-packet one-way delay: 118.397 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 31.81 Mbit/s
95th percentile per-packet one-way delay: 118.335 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 23.11 Mbit/s
95th percentile per-packet one-way delay: 118.598 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 28.31 Mbit/s
95th percentile per-packet one-way delay: 117.066 ms
Loss rate: 0.79%

Run 4: Report of QUIC Cubic — Data Link

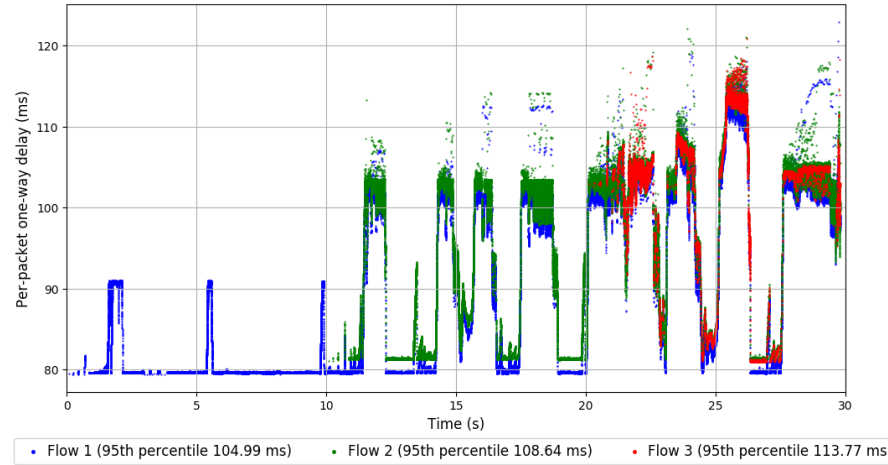
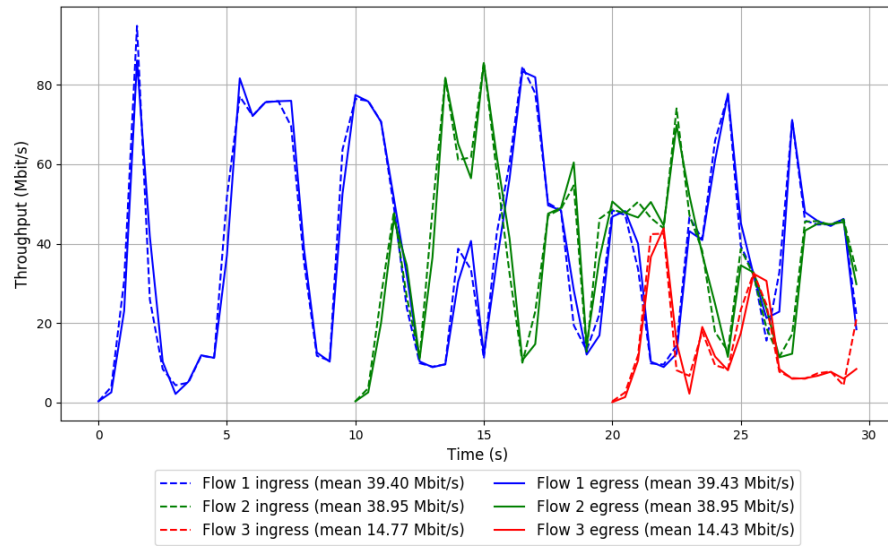


Run 5: Statistics of QUIC Cubic

Start at: 2018-03-13 15:37:34
End at: 2018-03-13 15:38:04
Local clock offset: -5.763 ms
Remote clock offset: -1.452 ms

Below is generated by plot.py at 2018-03-13 22:03:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.95 Mbit/s
95th percentile per-packet one-way delay: 108.256 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 39.43 Mbit/s
95th percentile per-packet one-way delay: 104.990 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 38.95 Mbit/s
95th percentile per-packet one-way delay: 108.639 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 14.43 Mbit/s
95th percentile per-packet one-way delay: 113.774 ms
Loss rate: 4.31%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-03-13 16:01:07

End at: 2018-03-13 16:01:37

Local clock offset: -2.875 ms

Remote clock offset: 0.196 ms

Below is generated by plot.py at 2018-03-13 22:03:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.58 Mbit/s

95th percentile per-packet one-way delay: 112.524 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 35.54 Mbit/s

95th percentile per-packet one-way delay: 111.980 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 27.50 Mbit/s

95th percentile per-packet one-way delay: 111.761 ms

Loss rate: 1.18%

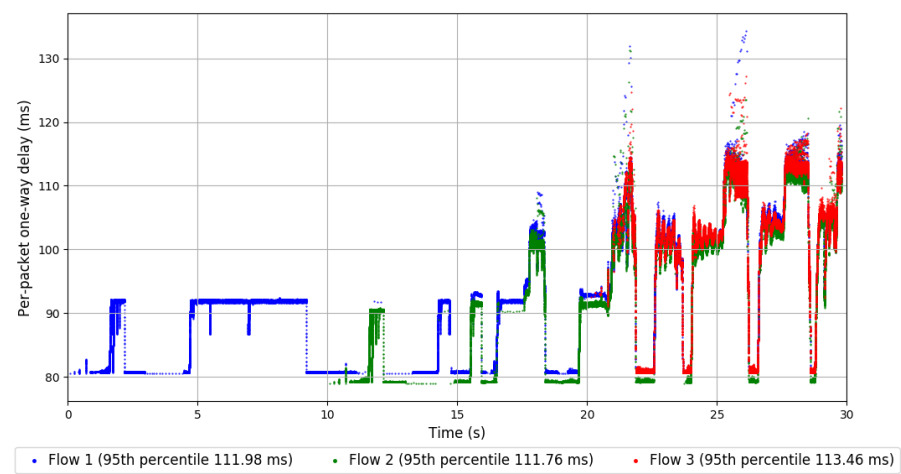
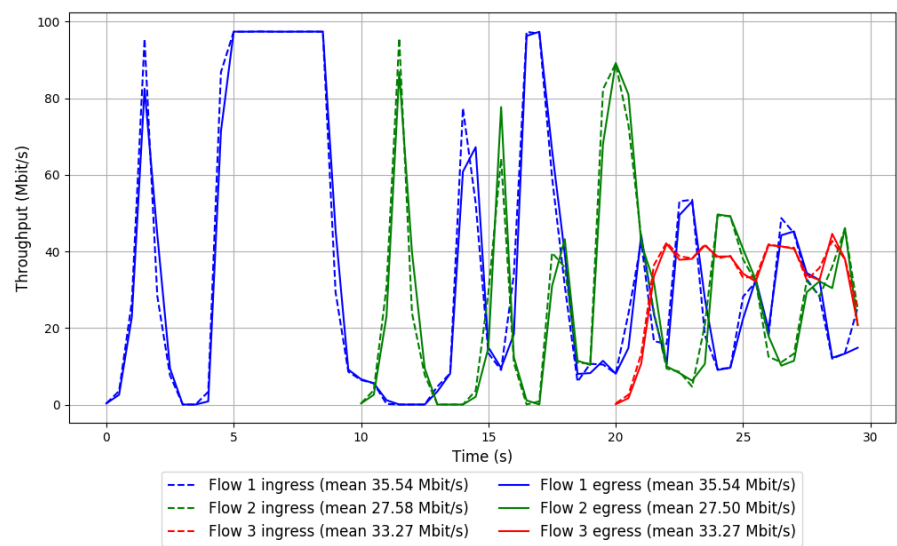
-- Flow 3:

Average throughput: 33.27 Mbit/s

95th percentile per-packet one-way delay: 113.461 ms

Loss rate: 1.94%

Run 6: Report of QUIC Cubic — Data Link

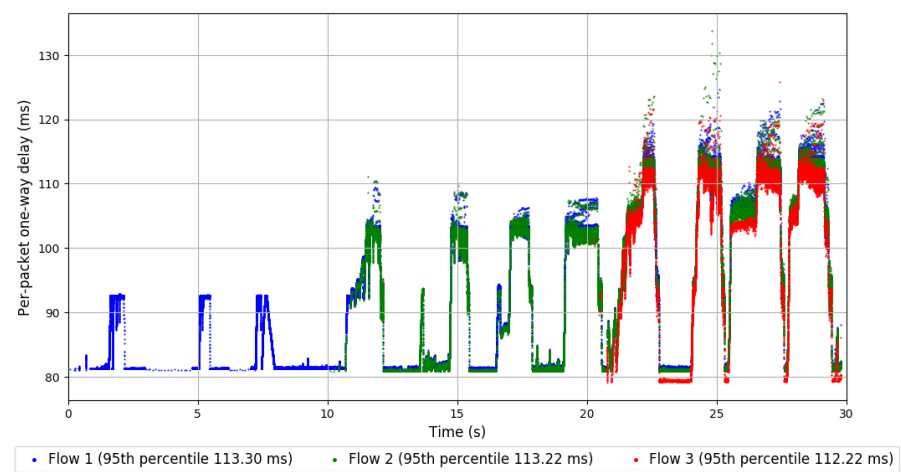
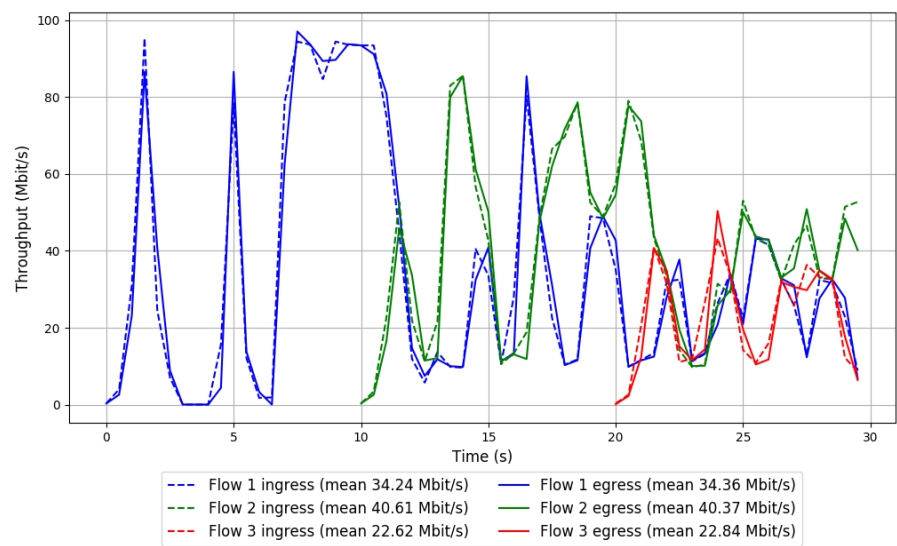


Run 7: Statistics of QUIC Cubic

Start at: 2018-03-13 16:24:39
End at: 2018-03-13 16:25:09
Local clock offset: -1.829 ms
Remote clock offset: -1.512 ms

Below is generated by plot.py at 2018-03-13 22:04:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.54 Mbit/s
95th percentile per-packet one-way delay: 113.167 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 34.36 Mbit/s
95th percentile per-packet one-way delay: 113.304 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 40.37 Mbit/s
95th percentile per-packet one-way delay: 113.220 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 22.84 Mbit/s
95th percentile per-packet one-way delay: 112.216 ms
Loss rate: 0.88%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-03-13 16:48:08

End at: 2018-03-13 16:48:38

Local clock offset: -3.16 ms

Remote clock offset: -4.98 ms

Below is generated by plot.py at 2018-03-13 22:04:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.60 Mbit/s

95th percentile per-packet one-way delay: 108.660 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 43.68 Mbit/s

95th percentile per-packet one-way delay: 108.289 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 41.13 Mbit/s

95th percentile per-packet one-way delay: 108.987 ms

Loss rate: 0.27%

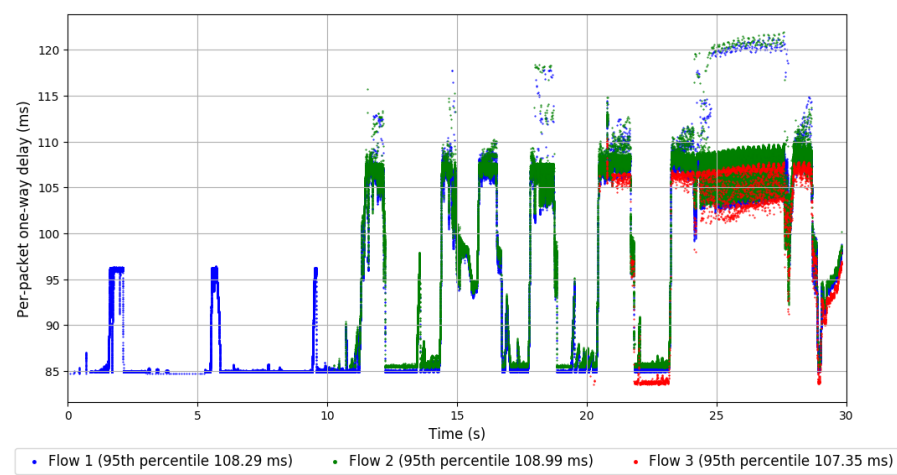
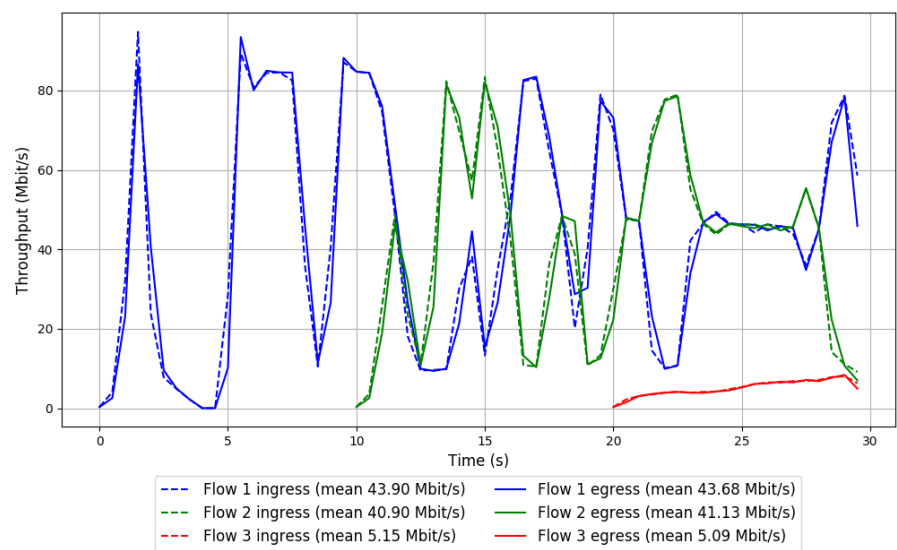
-- Flow 3:

Average throughput: 5.09 Mbit/s

95th percentile per-packet one-way delay: 107.348 ms

Loss rate: 2.83%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-03-13 17:11:41

End at: 2018-03-13 17:12:11

Local clock offset: -2.92 ms

Remote clock offset: 0.11 ms

Below is generated by plot.py at 2018-03-13 22:04:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.93 Mbit/s

95th percentile per-packet one-way delay: 111.850 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 37.86 Mbit/s

95th percentile per-packet one-way delay: 111.238 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 41.80 Mbit/s

95th percentile per-packet one-way delay: 113.013 ms

Loss rate: 0.76%

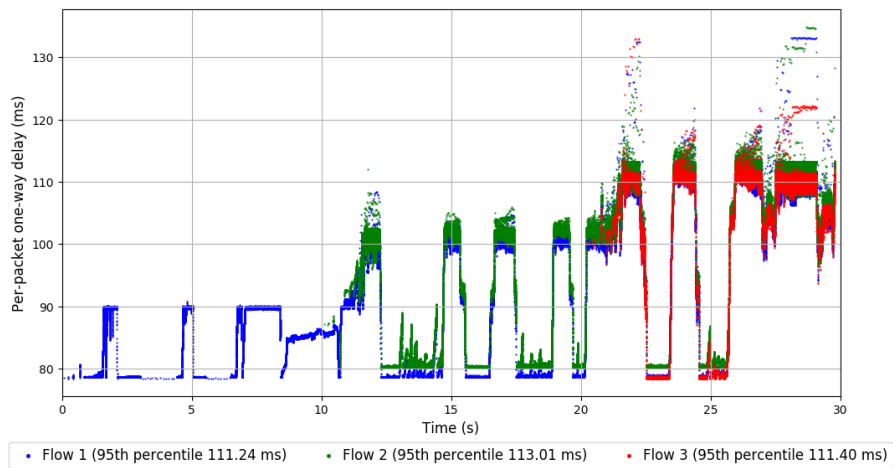
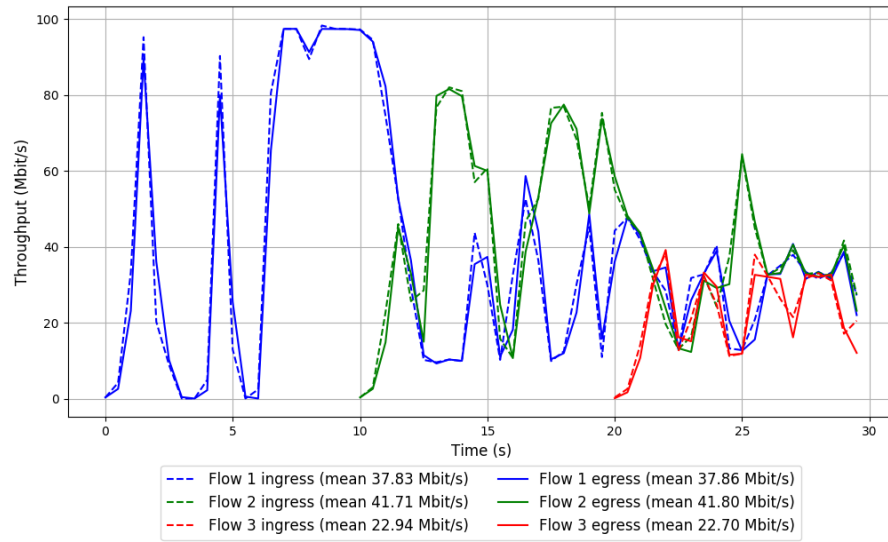
-- Flow 3:

Average throughput: 22.70 Mbit/s

95th percentile per-packet one-way delay: 111.403 ms

Loss rate: 2.83%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-03-13 17:35:22

End at: 2018-03-13 17:35:52

Local clock offset: -4.159 ms

Remote clock offset: 0.074 ms

Below is generated by plot.py at 2018-03-13 22:04:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.63 Mbit/s

95th percentile per-packet one-way delay: 105.284 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 42.04 Mbit/s

95th percentile per-packet one-way delay: 105.657 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 24.07 Mbit/s

95th percentile per-packet one-way delay: 104.088 ms

Loss rate: 1.64%

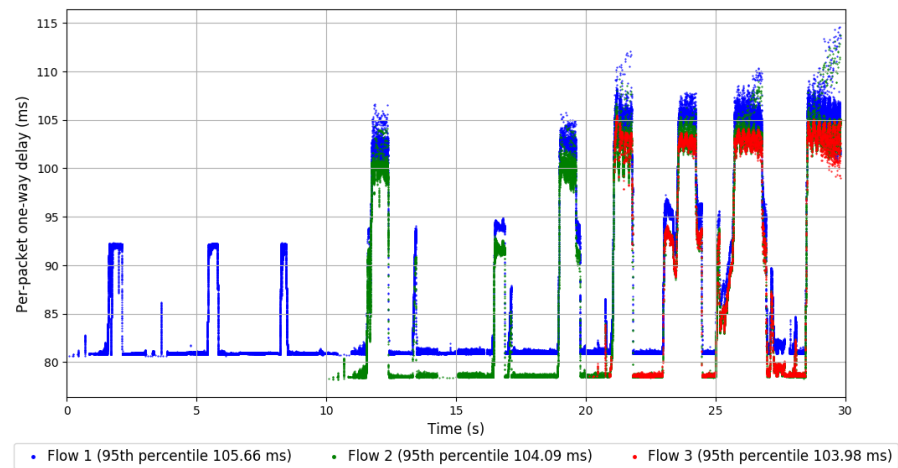
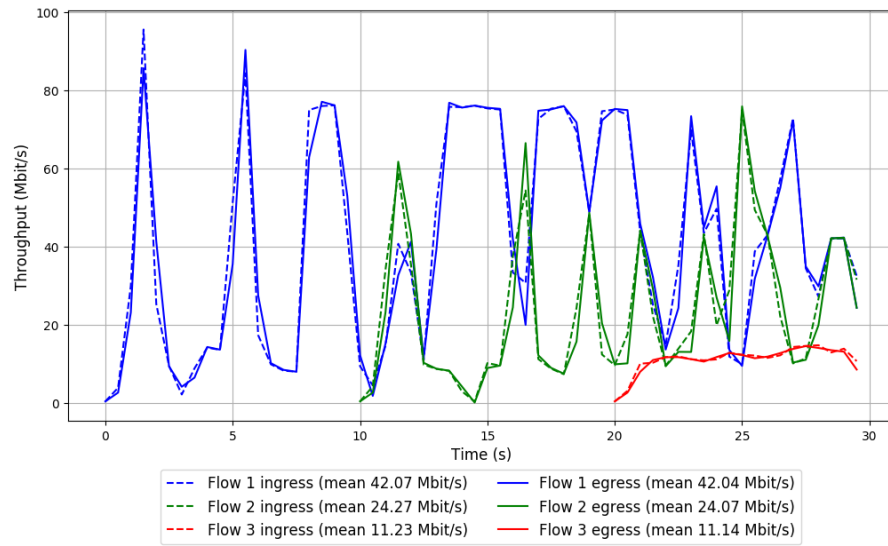
-- Flow 3:

Average throughput: 11.14 Mbit/s

95th percentile per-packet one-way delay: 103.985 ms

Loss rate: 2.39%

Run 10: Report of QUIC Cubic — Data Link

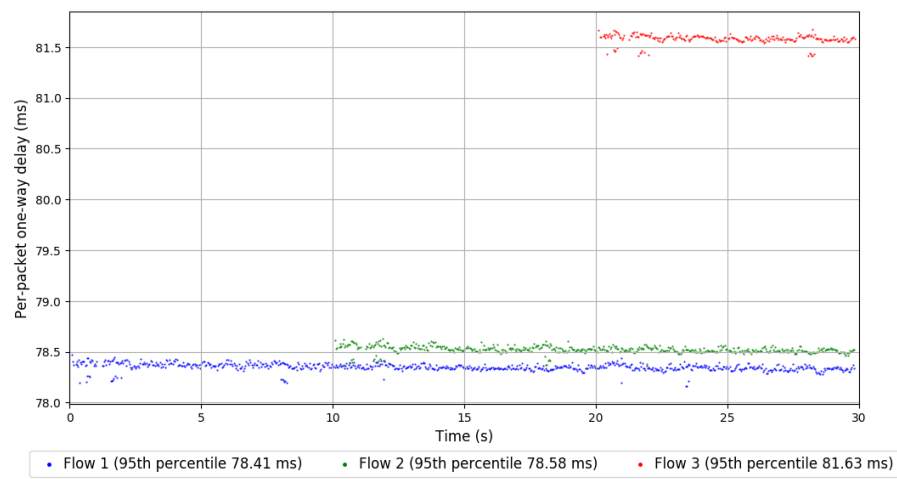
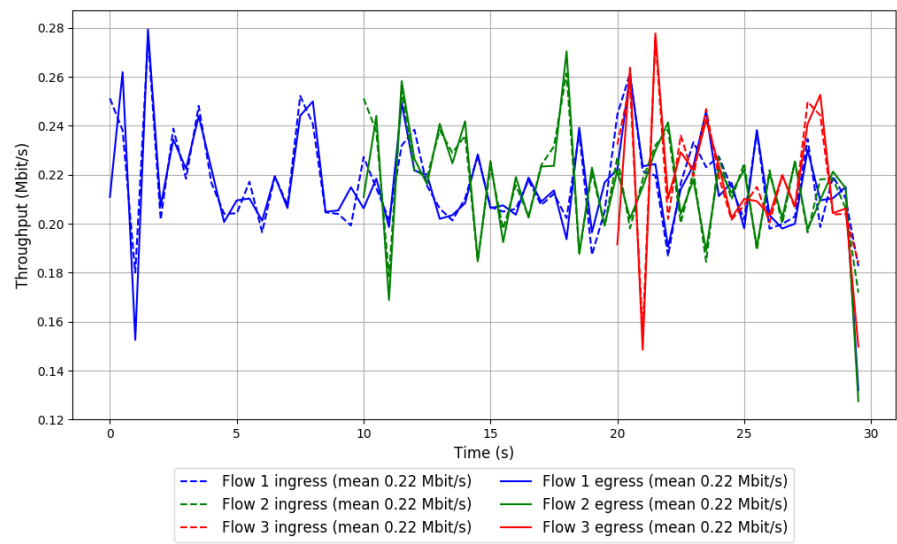


```
Run 1: Statistics of SReAM

Start at: 2018-03-13 14:08:26
End at: 2018-03-13 14:08:56
Local clock offset: -6.668 ms
Remote clock offset: -0.225 ms

# Below is generated by plot.py at 2018-03-13 22:04:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 81.602 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.409 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.579 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.632 ms
Loss rate: 1.50%
```

Run 1: Report of SReAM — Data Link

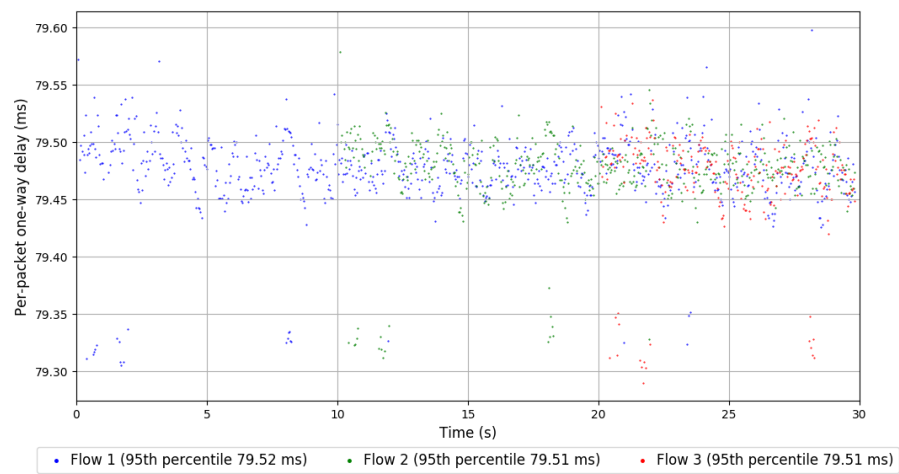
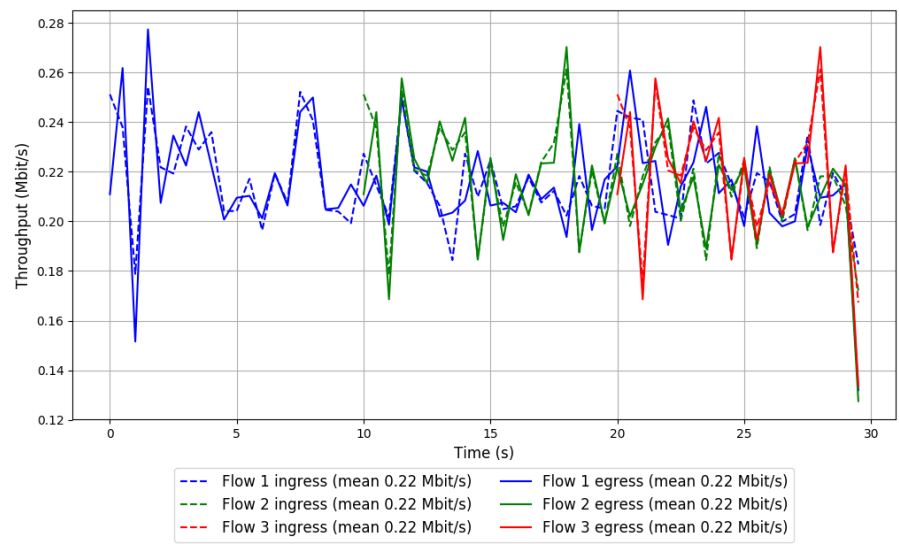


Run 2: Statistics of SReAM

Start at: 2018-03-13 14:31:58
End at: 2018-03-13 14:32:28
Local clock offset: -5.707 ms
Remote clock offset: -0.843 ms

Below is generated by plot.py at 2018-03-13 22:04:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 79.514 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.517 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.513 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.512 ms
Loss rate: 1.50%

Run 2: Report of SReAM — Data Link

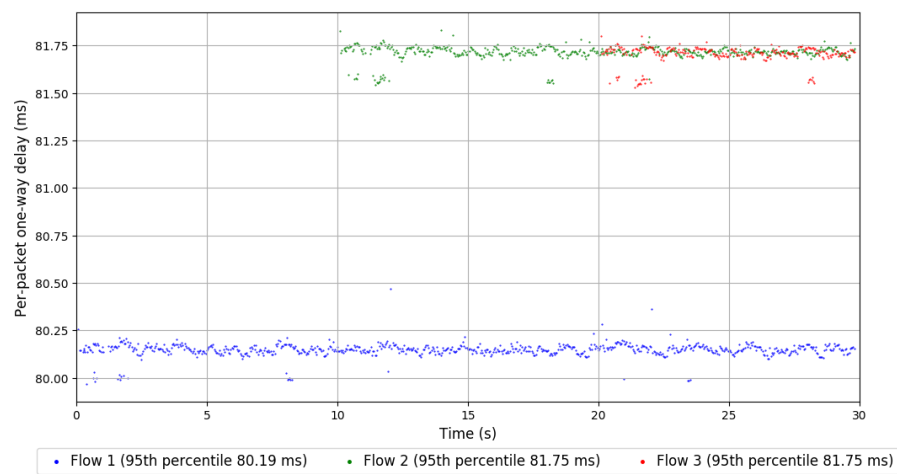
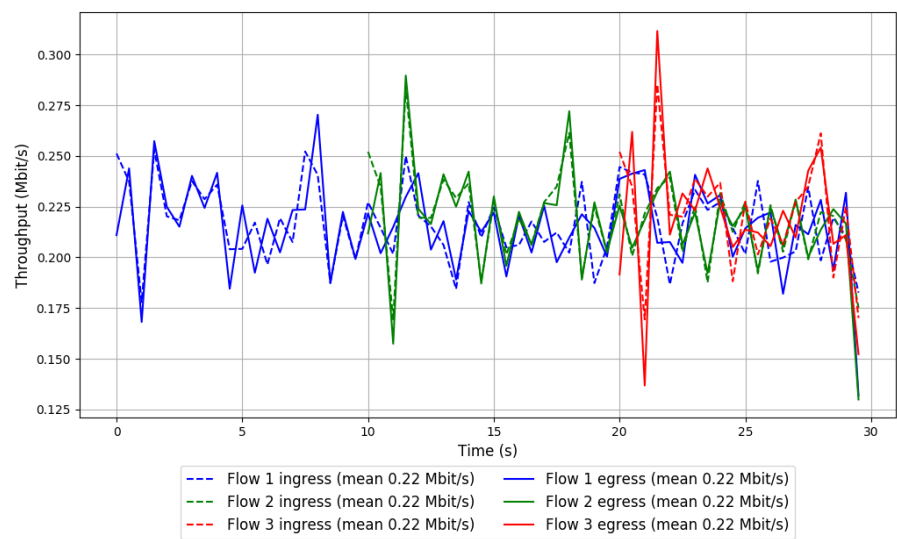


Run 3: Statistics of SReAM

Start at: 2018-03-13 14:55:34
End at: 2018-03-13 14:56:04
Local clock offset: -6.165 ms
Remote clock offset: 0.301 ms

Below is generated by plot.py at 2018-03-13 22:04:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 81.745 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.186 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.753 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.750 ms
Loss rate: 1.50%

Run 3: Report of SReAM — Data Link

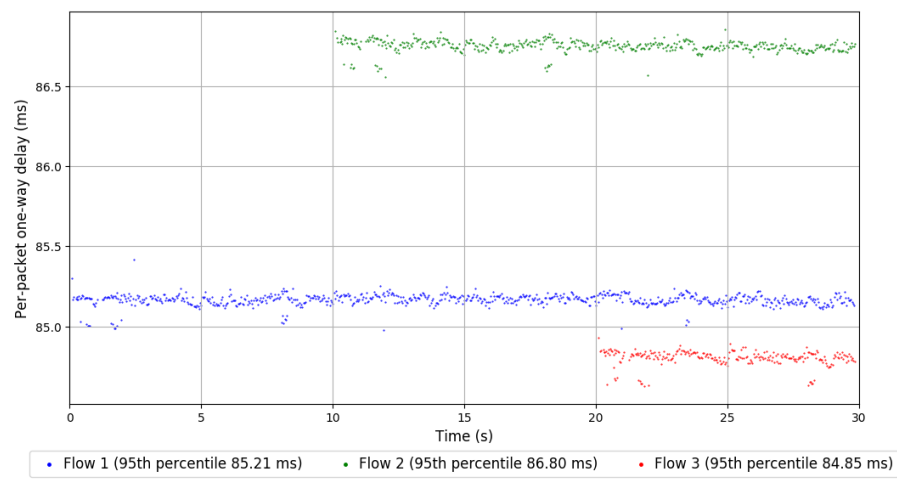
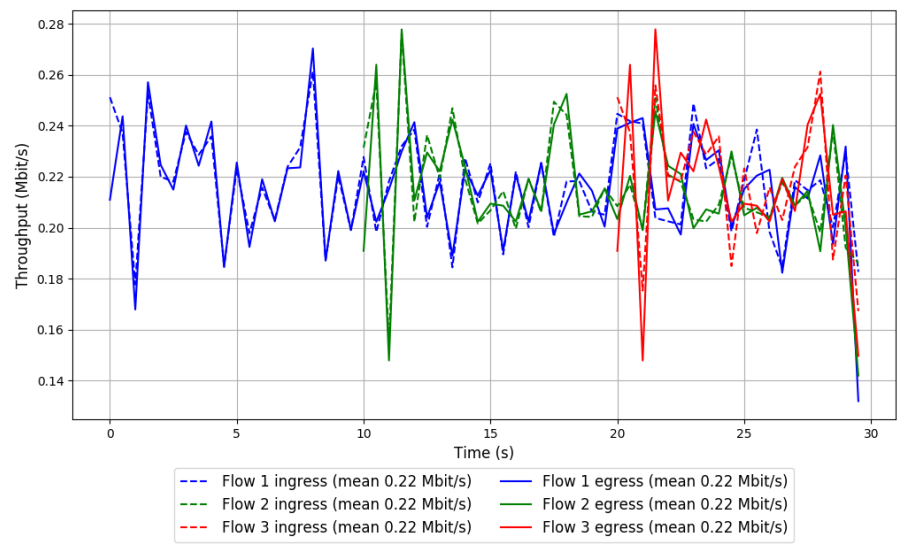


Run 4: Statistics of SReAM

Start at: 2018-03-13 15:19:17
End at: 2018-03-13 15:19:47
Local clock offset: -6.068 ms
Remote clock offset: -4.659 ms

Below is generated by plot.py at 2018-03-13 22:04:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 86.783 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.212 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.799 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.854 ms
Loss rate: 1.50%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-03-13 15:42:52

End at: 2018-03-13 15:43:22

Local clock offset: -5.771 ms

Remote clock offset: -5.56 ms

Below is generated by plot.py at 2018-03-13 22:04:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 85.055 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.440 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.000 ms

Loss rate: 0.84%

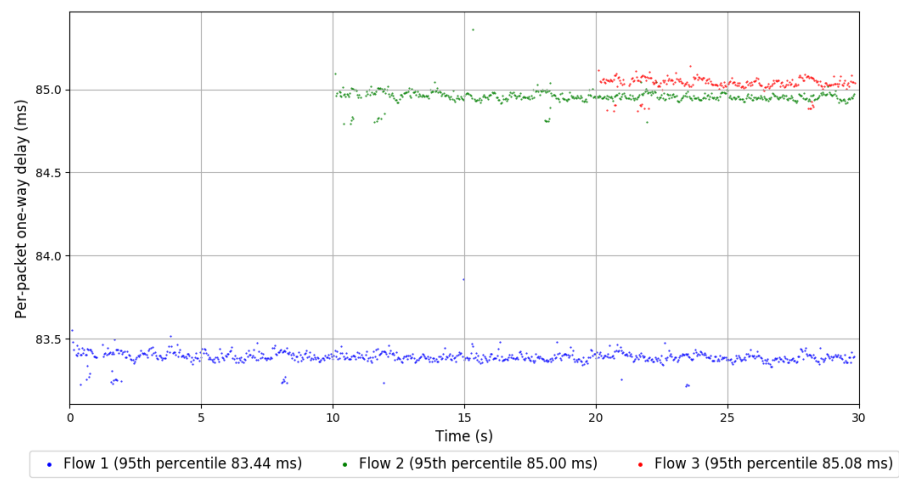
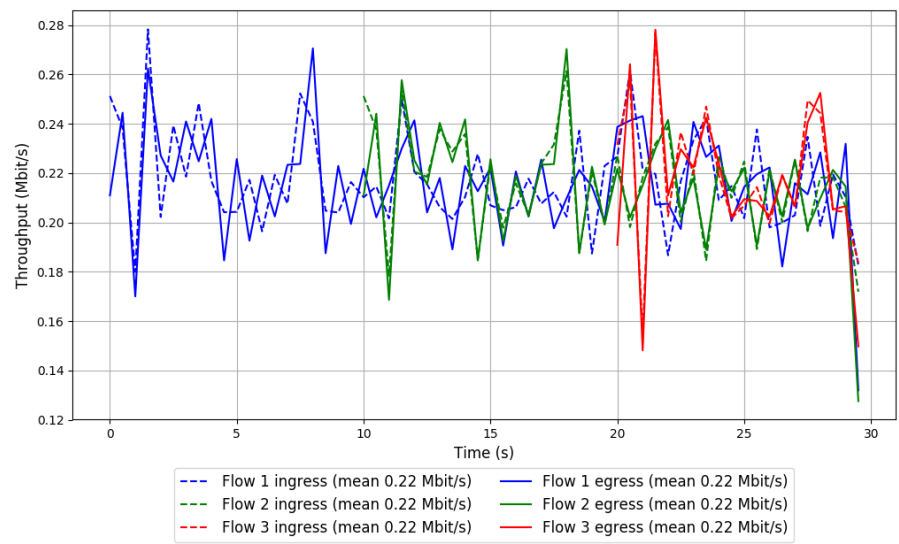
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.082 ms

Loss rate: 1.50%

Run 5: Report of SReAM — Data Link

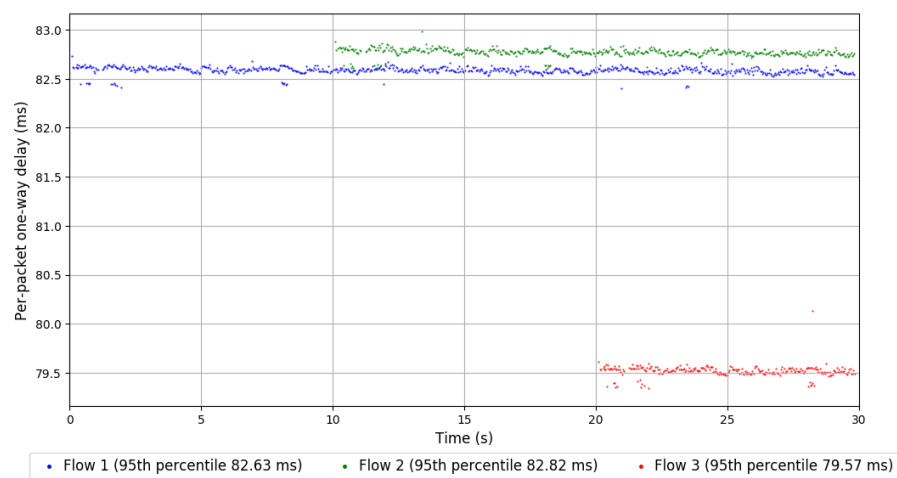
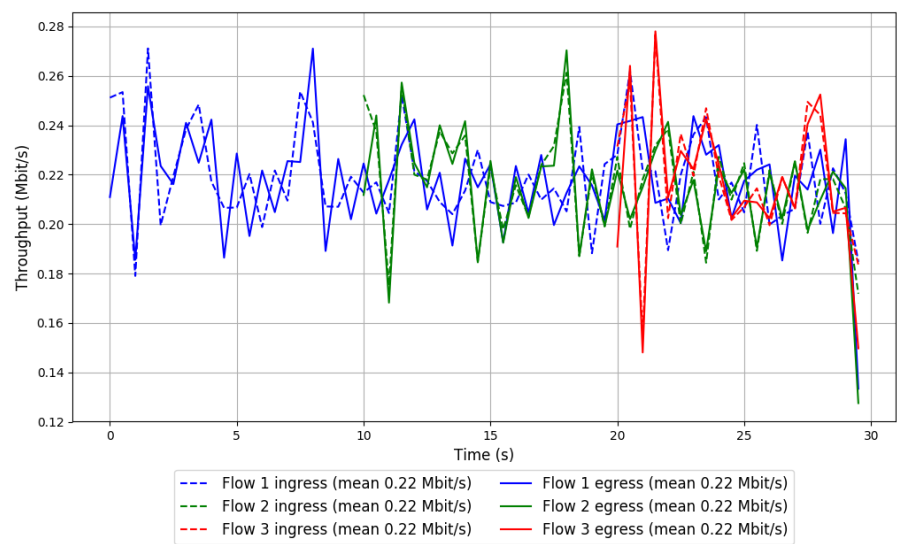


Run 6: Statistics of SReAM

Start at: 2018-03-13 16:06:24
End at: 2018-03-13 16:06:54
Local clock offset: -2.349 ms
Remote clock offset: -1.631 ms

Below is generated by plot.py at 2018-03-13 22:04:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 82.802 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.631 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.821 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.574 ms
Loss rate: 1.50%

Run 6: Report of SReAM — Data Link

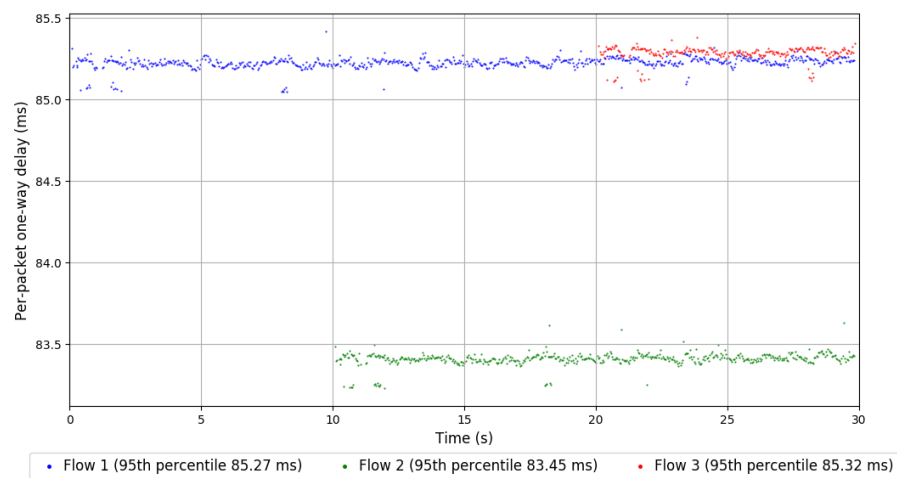
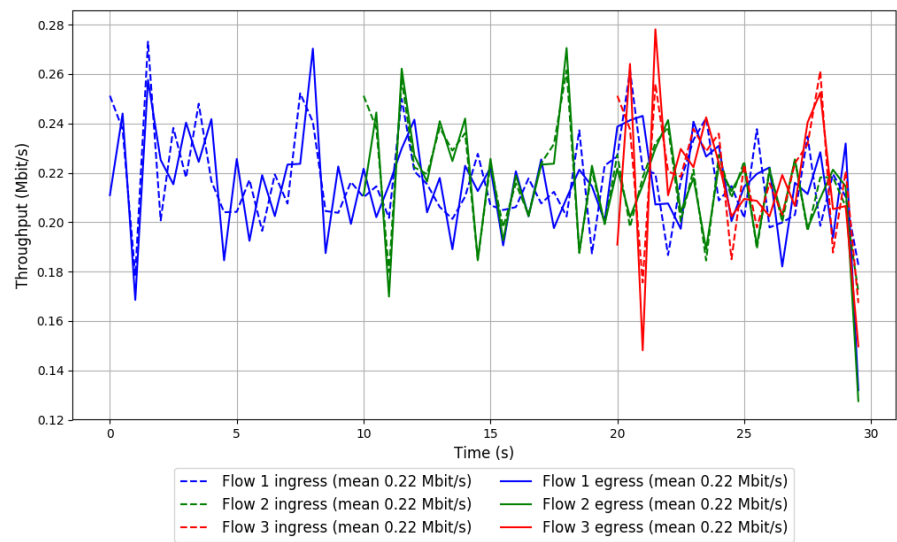


Run 7: Statistics of SReAM

Start at: 2018-03-13 16:29:56
End at: 2018-03-13 16:30:26
Local clock offset: -2.597 ms
Remote clock offset: -5.569 ms

Below is generated by plot.py at 2018-03-13 22:04:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 85.304 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.265 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.451 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.320 ms
Loss rate: 1.50%

Run 7: Report of SReAM — Data Link

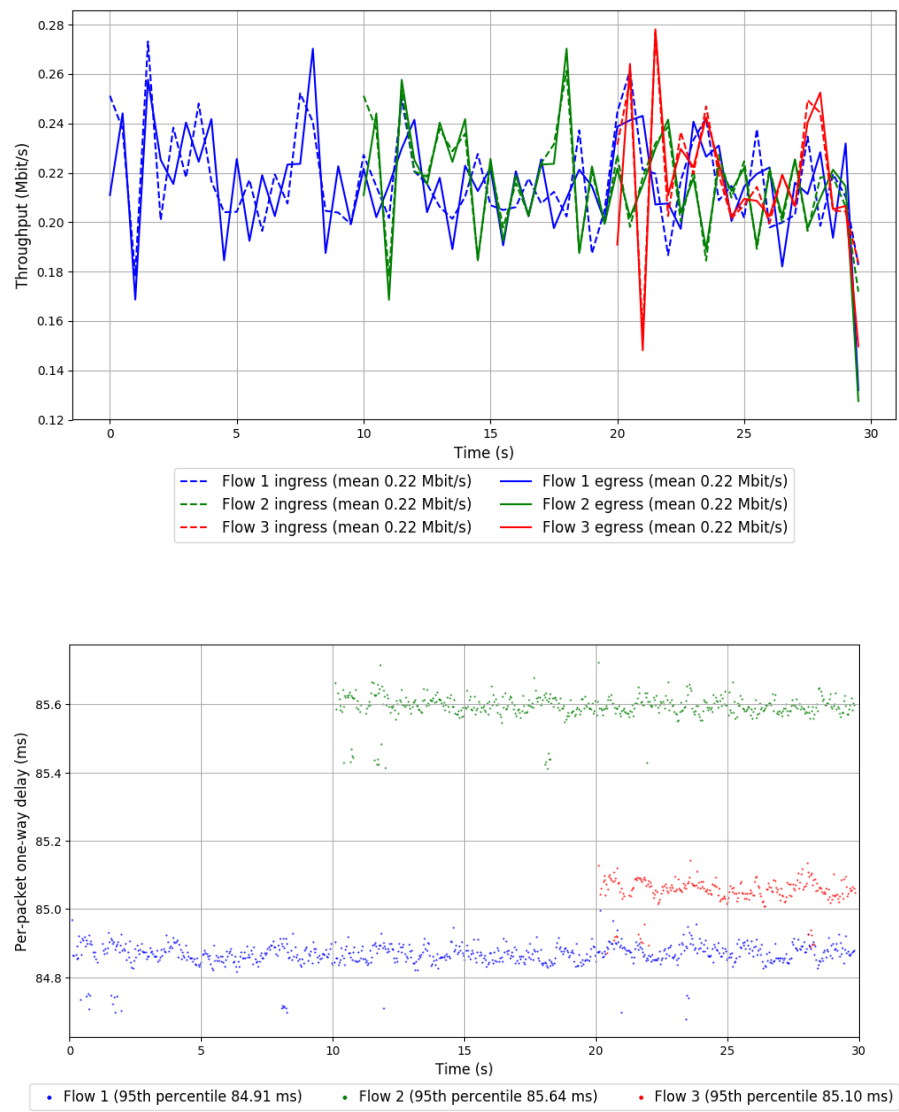


Run 8: Statistics of SReAM

Start at: 2018-03-13 16:53:25
End at: 2018-03-13 16:53:55
Local clock offset: -3.162 ms
Remote clock offset: -4.853 ms

Below is generated by plot.py at 2018-03-13 22:04:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 85.621 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.912 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.640 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.100 ms
Loss rate: 1.50%

Run 8: Report of SReAM — Data Link

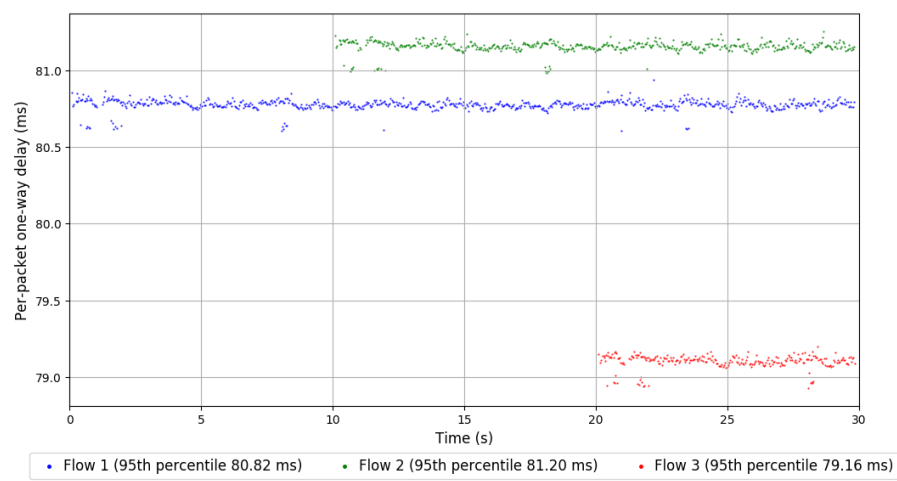
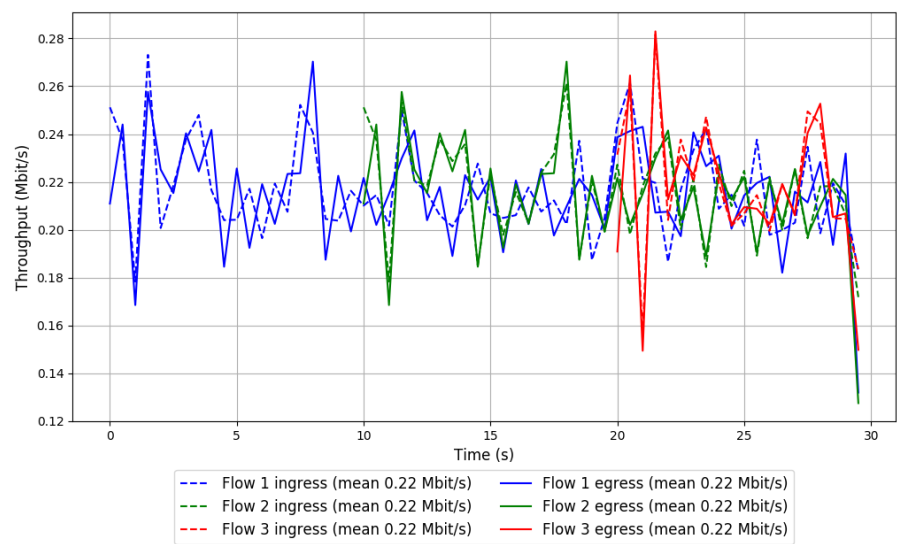


Run 9: Statistics of SReAM

Start at: 2018-03-13 17:16:57
End at: 2018-03-13 17:17:27
Local clock offset: -2.867 ms
Remote clock offset: -0.803 ms

Below is generated by plot.py at 2018-03-13 22:04:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 81.184 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.818 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.203 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.156 ms
Loss rate: 1.49%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-03-13 17:40:38

End at: 2018-03-13 17:41:08

Local clock offset: -5.204 ms

Remote clock offset: 0.171 ms

Below is generated by plot.py at 2018-03-13 22:04:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 79.025 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 78.525 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 78.523 ms

Loss rate: 0.84%

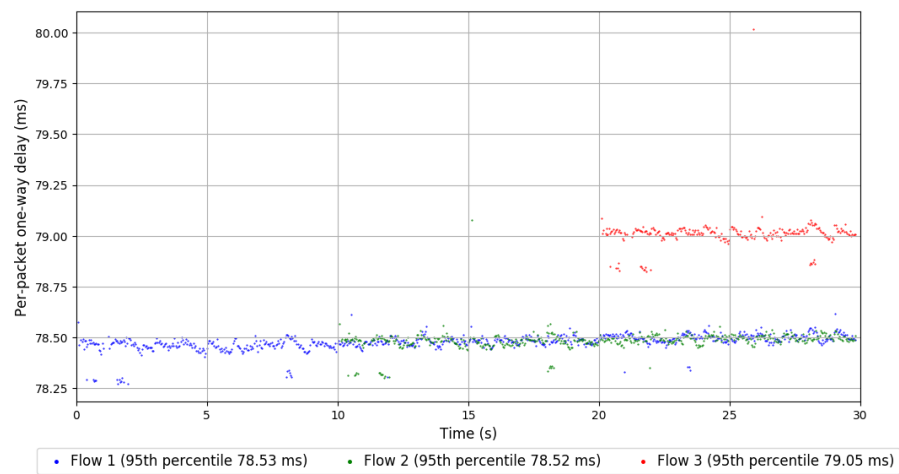
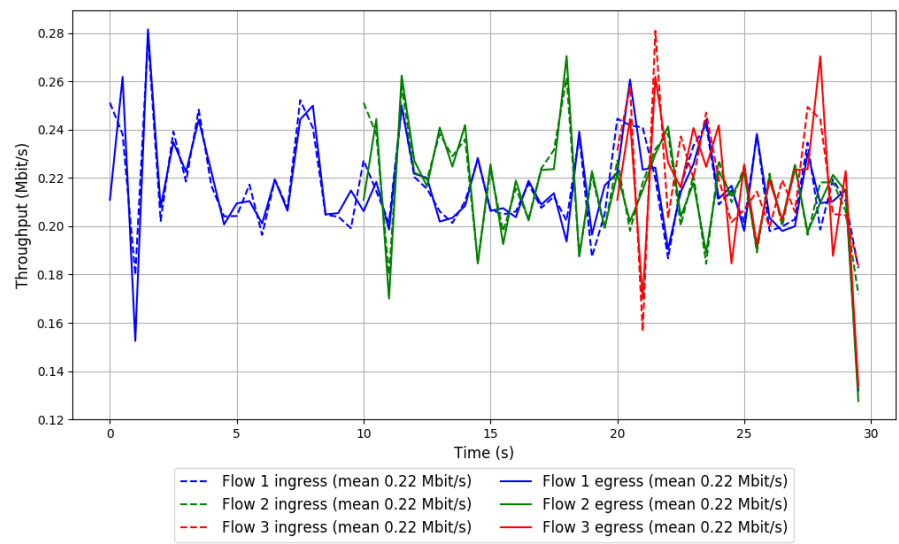
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.053 ms

Loss rate: 1.49%

Run 10: Report of SReAM — Data Link

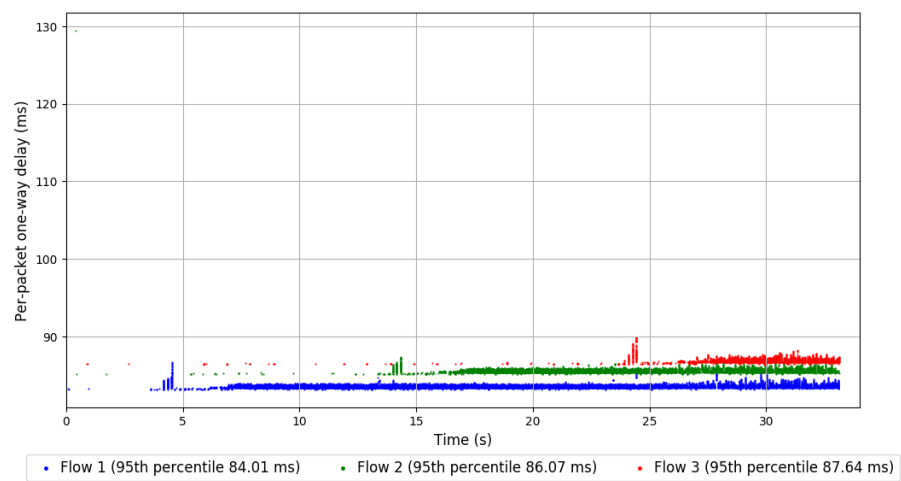
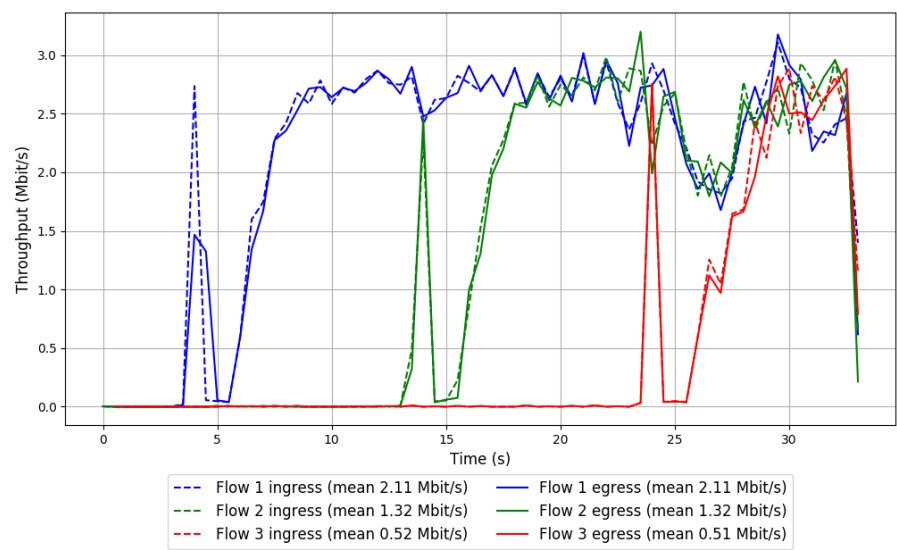


Run 1: Statistics of WebRTC media

Start at: 2018-03-13 14:25:25
End at: 2018-03-13 14:25:55
Local clock offset: -5.842 ms
Remote clock offset: -5.073 ms

Below is generated by plot.py at 2018-03-13 22:04:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 86.974 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 84.014 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 86.072 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 87.637 ms
Loss rate: 2.29%

Run 1: Report of WebRTC media — Data Link

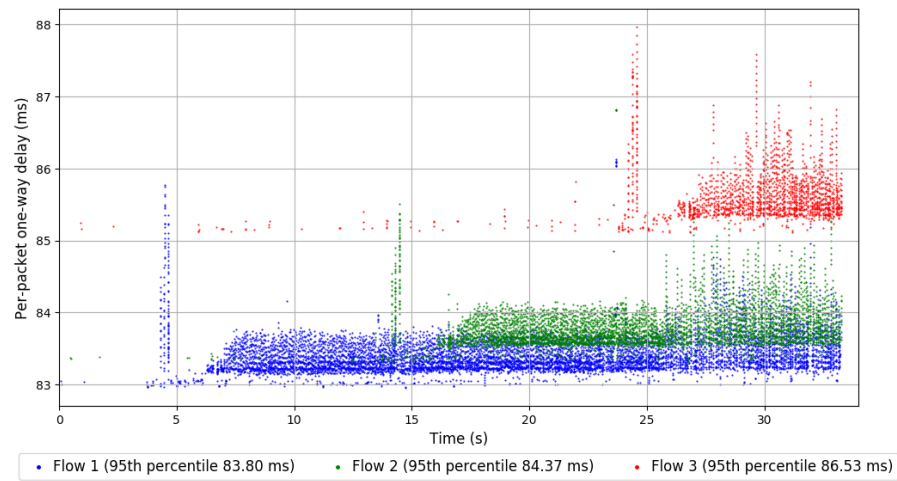
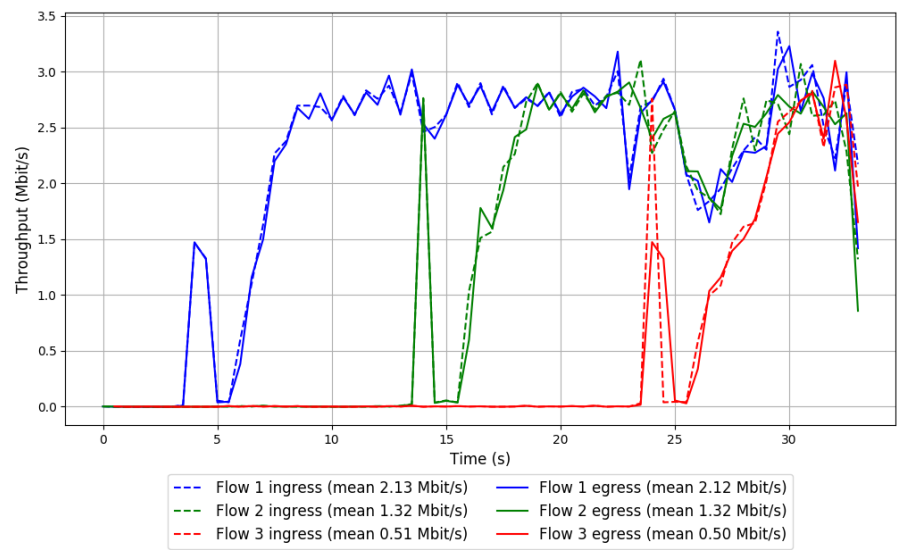


Run 2: Statistics of WebRTC media

Start at: 2018-03-13 14:49:02
End at: 2018-03-13 14:49:32
Local clock offset: -6.029 ms
Remote clock offset: -4.637 ms

Below is generated by plot.py at 2018-03-13 22:04:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 85.666 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 2.12 Mbit/s
95th percentile per-packet one-way delay: 83.804 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 84.373 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 86.525 ms
Loss rate: 2.37%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-03-13 15:12:45

End at: 2018-03-13 15:13:15

Local clock offset: -6.321 ms

Remote clock offset: 0.116 ms

Below is generated by plot.py at 2018-03-13 22:04:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.91 Mbit/s

95th percentile per-packet one-way delay: 80.627 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 80.744 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 79.270 ms

Loss rate: 1.08%

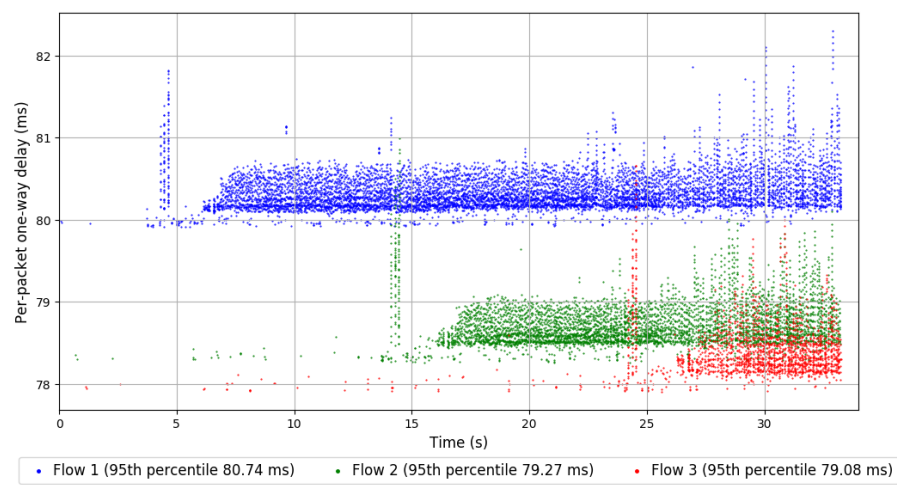
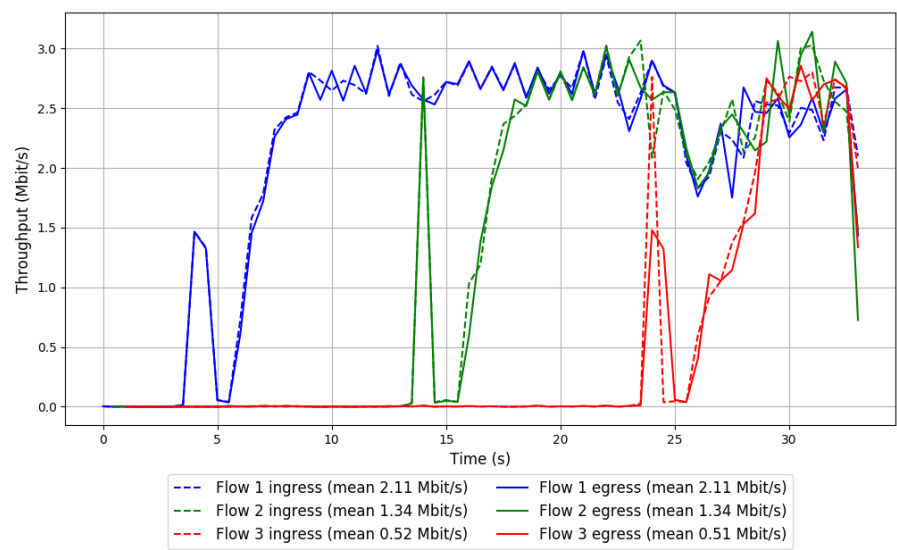
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 79.082 ms

Loss rate: 3.14%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-03-13 15:36:20

End at: 2018-03-13 15:36:50

Local clock offset: -5.799 ms

Remote clock offset: -5.44 ms

Below is generated by plot.py at 2018-03-13 22:04:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.89 Mbit/s

95th percentile per-packet one-way delay: 87.312 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 85.618 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 85.804 ms

Loss rate: 0.97%

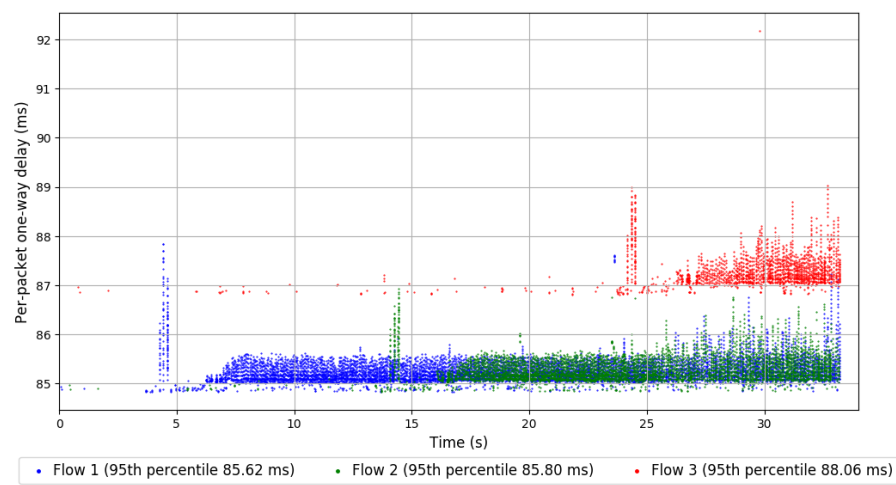
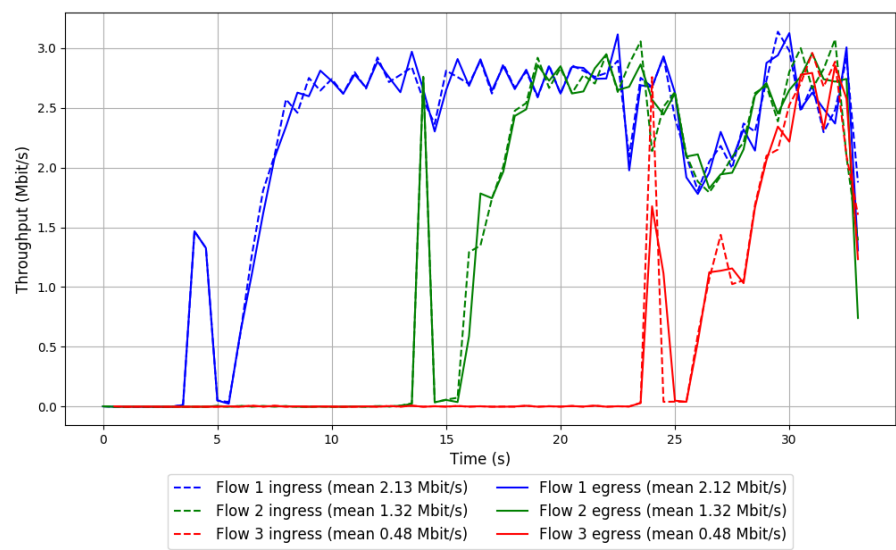
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 88.058 ms

Loss rate: 2.35%

Run 4: Report of WebRTC media — Data Link

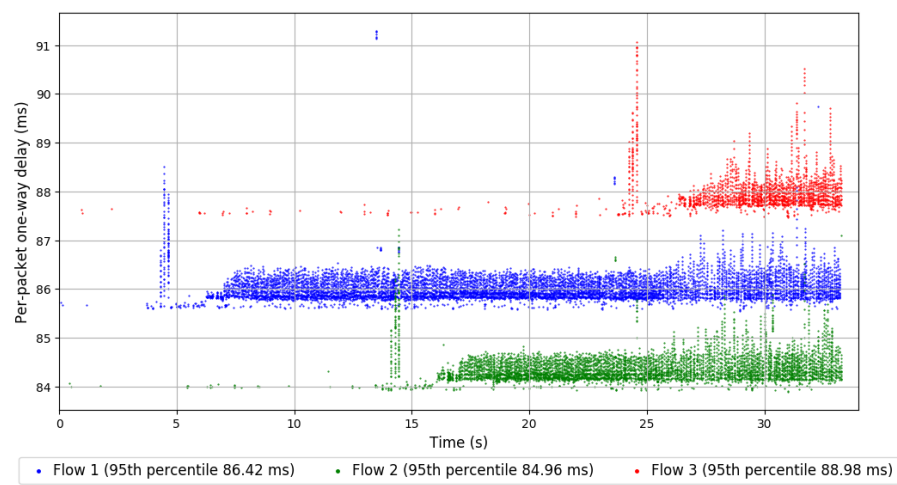
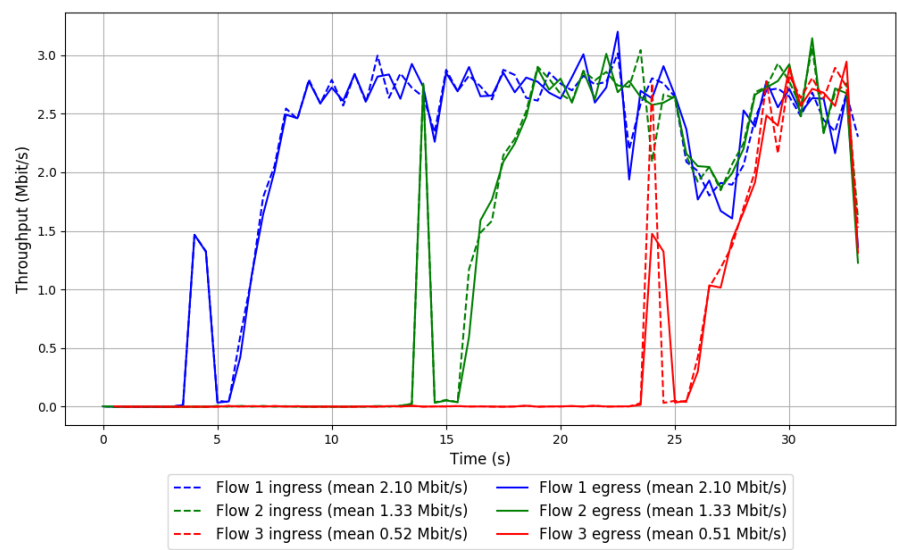


Run 5: Statistics of WebRTC media

Start at: 2018-03-13 15:59:53
End at: 2018-03-13 16:00:23
Local clock offset: -3.073 ms
Remote clock offset: -6.451 ms

Below is generated by plot.py at 2018-03-13 22:04:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.90 Mbit/s
95th percentile per-packet one-way delay: 88.011 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 86.425 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 84.962 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 88.982 ms
Loss rate: 2.35%

Run 5: Report of WebRTC media — Data Link

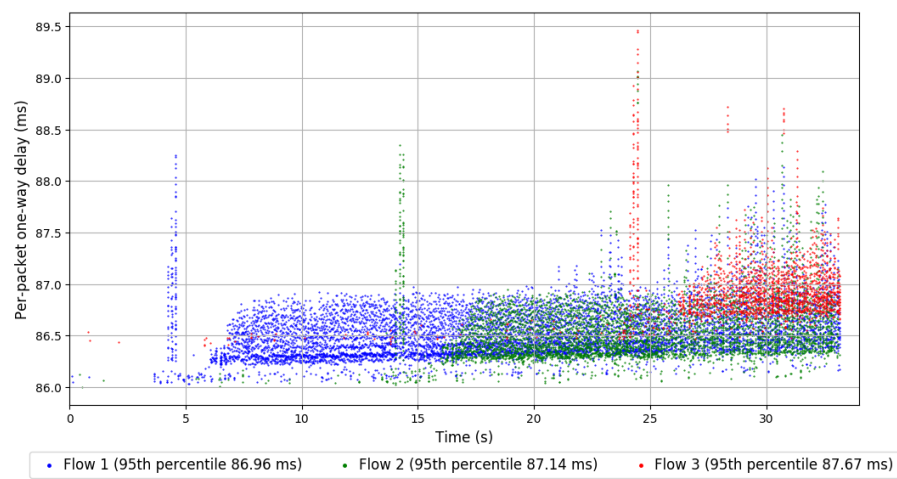
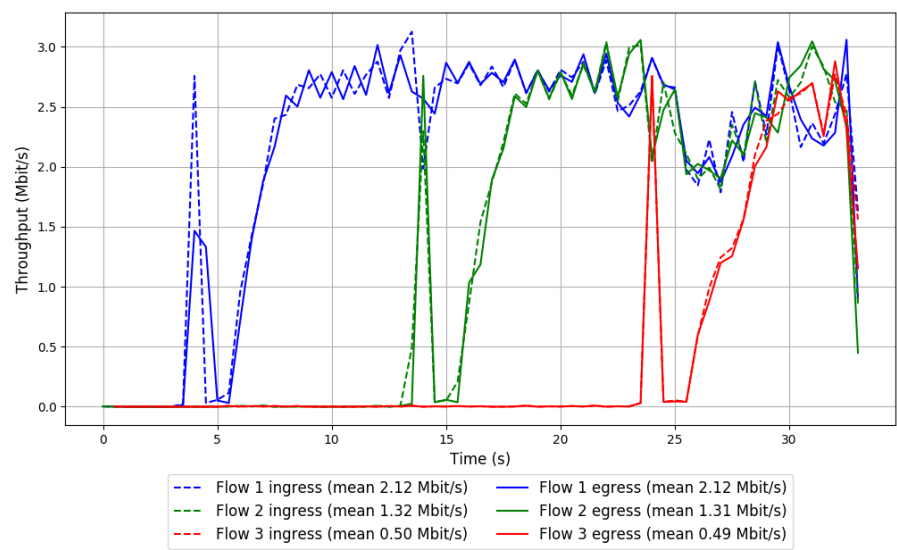


Run 6: Statistics of WebRTC media

Start at: 2018-03-13 16:23:25
End at: 2018-03-13 16:23:55
Local clock offset: -1.602 ms
Remote clock offset: -6.519 ms

Below is generated by plot.py at 2018-03-13 22:04:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.89 Mbit/s
95th percentile per-packet one-way delay: 87.172 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 2.12 Mbit/s
95th percentile per-packet one-way delay: 86.960 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 87.143 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 87.665 ms
Loss rate: 2.46%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-03-13 16:46:54

End at: 2018-03-13 16:47:24

Local clock offset: -3.176 ms

Remote clock offset: 0.835 ms

Below is generated by plot.py at 2018-03-13 22:04:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.91 Mbit/s

95th percentile per-packet one-way delay: 79.550 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 78.201 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 79.919 ms

Loss rate: 0.40%

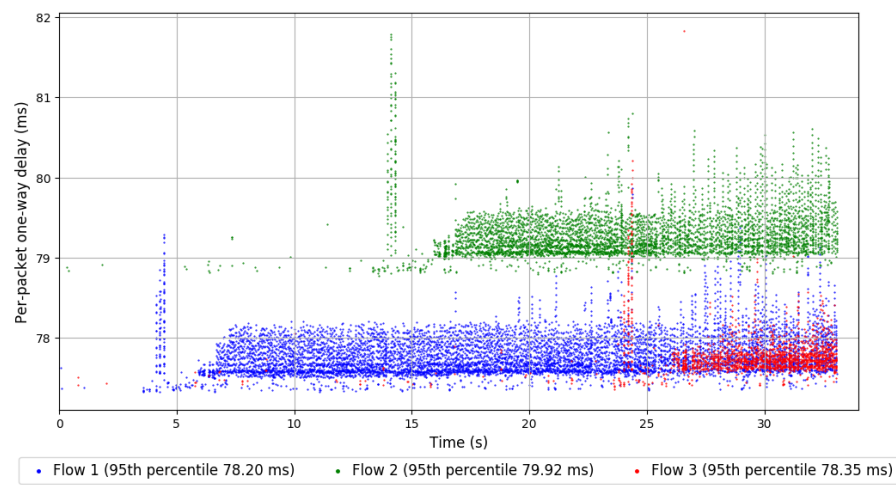
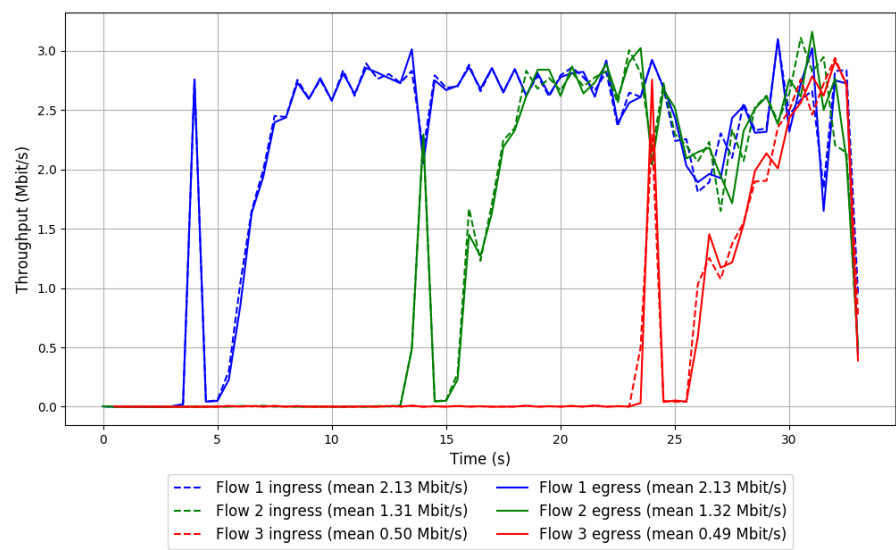
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 78.346 ms

Loss rate: 2.41%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-03-13 17:10:27

End at: 2018-03-13 17:10:57

Local clock offset: -2.949 ms

Remote clock offset: 0.222 ms

Below is generated by plot.py at 2018-03-13 22:04:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 79.215 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 78.833 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 79.466 ms

Loss rate: 1.04%

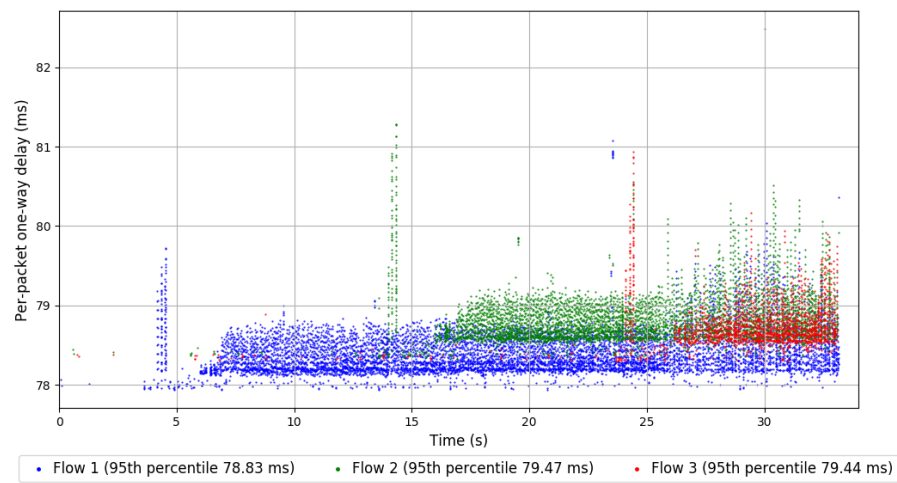
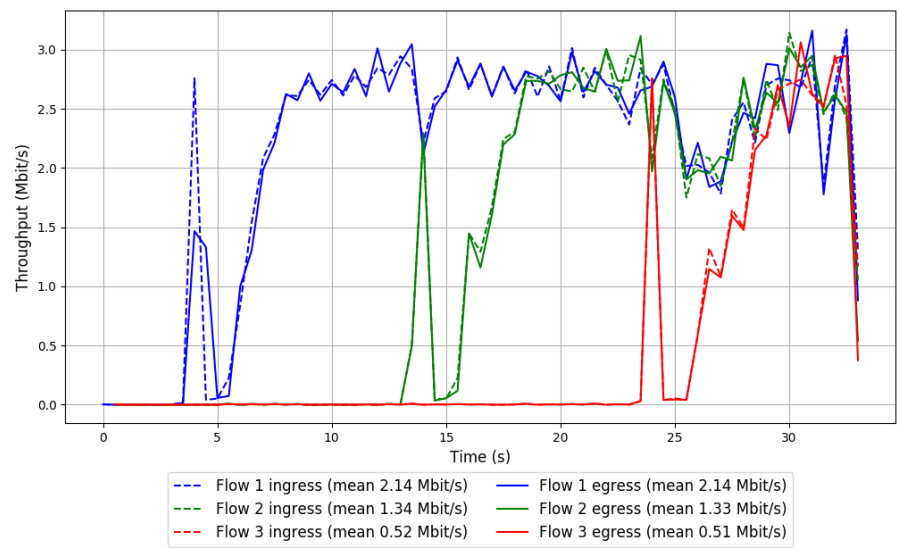
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 79.441 ms

Loss rate: 2.36%

Run 8: Report of WebRTC media — Data Link

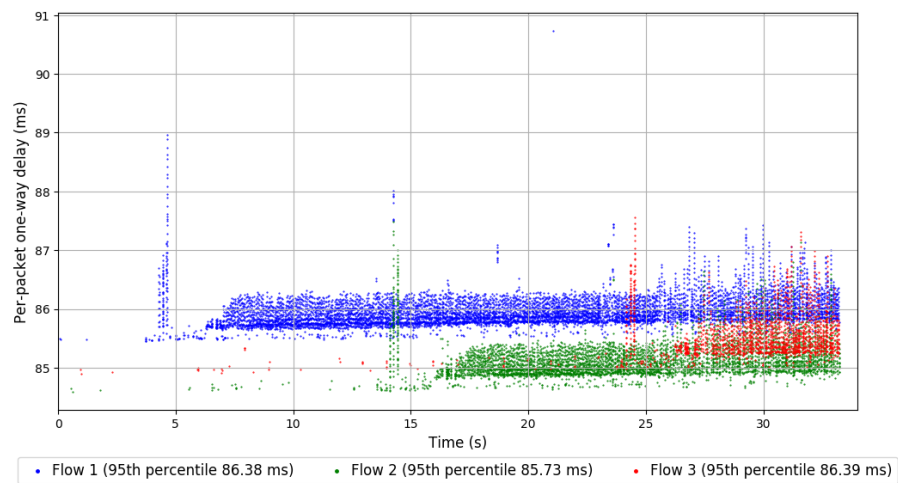
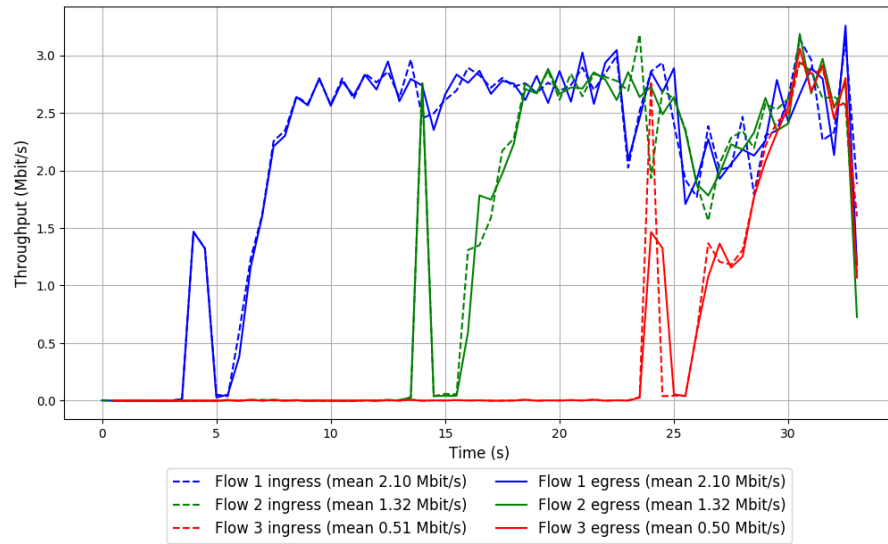


Run 9: Statistics of WebRTC media

Start at: 2018-03-13 17:34:08
End at: 2018-03-13 17:34:38
Local clock offset: -3.856 ms
Remote clock offset: -4.814 ms

Below is generated by plot.py at 2018-03-13 22:04:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.89 Mbit/s
95th percentile per-packet one-way delay: 86.292 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 86.382 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 85.731 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 86.395 ms
Loss rate: 2.45%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-03-13 17:57:40

End at: 2018-03-13 17:58:10

Local clock offset: -6.568 ms

Remote clock offset: 0.182 ms

Below is generated by plot.py at 2018-03-13 22:04:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 80.698 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 79.841 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 80.731 ms

Loss rate: 0.86%

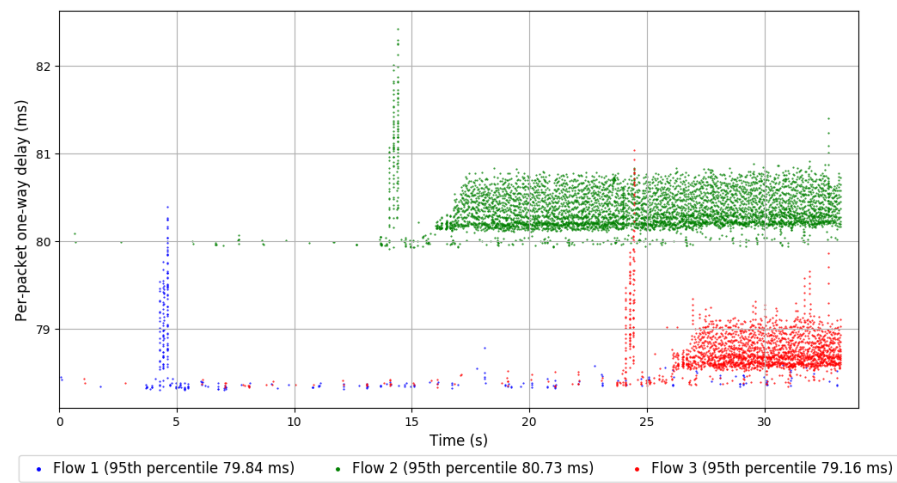
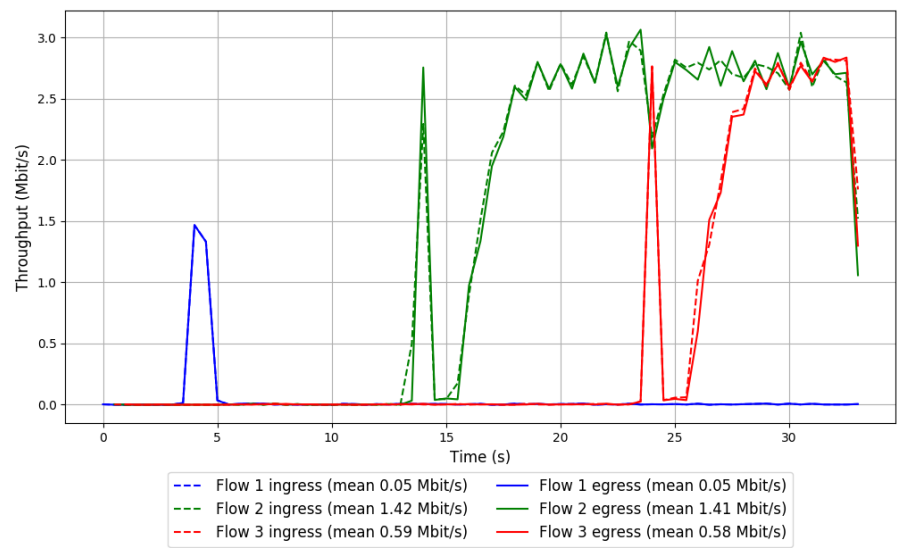
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 79.158 ms

Loss rate: 2.31%

Run 10: Report of WebRTC media — Data Link

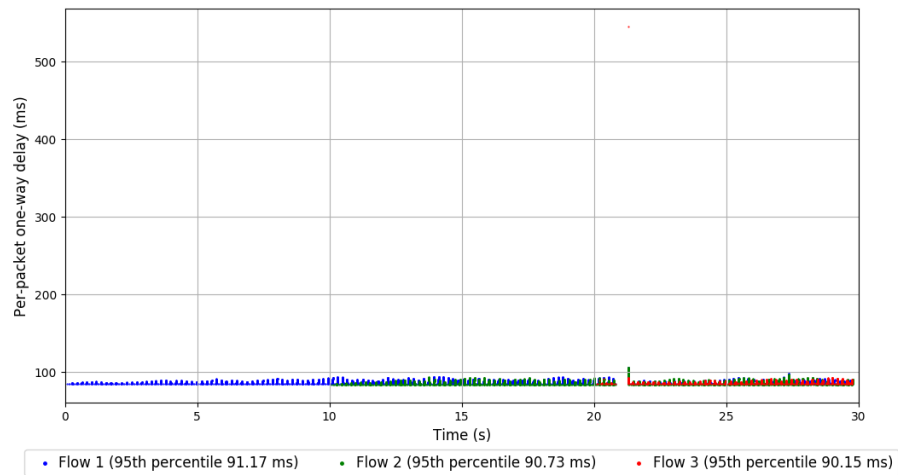
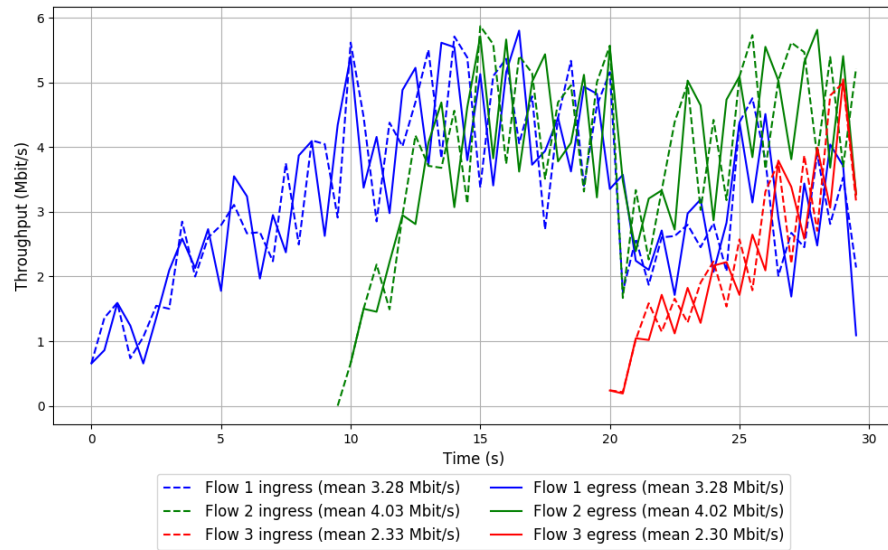


Run 1: Statistics of Sprout

Start at: 2018-03-13 14:14:57
End at: 2018-03-13 14:15:27
Local clock offset: -6.139 ms
Remote clock offset: -5.106 ms

Below is generated by plot.py at 2018-03-13 22:04:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.69 Mbit/s
95th percentile per-packet one-way delay: 90.894 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 3.28 Mbit/s
95th percentile per-packet one-way delay: 91.170 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 4.02 Mbit/s
95th percentile per-packet one-way delay: 90.728 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 90.154 ms
Loss rate: 3.41%

Run 1: Report of Sprout — Data Link

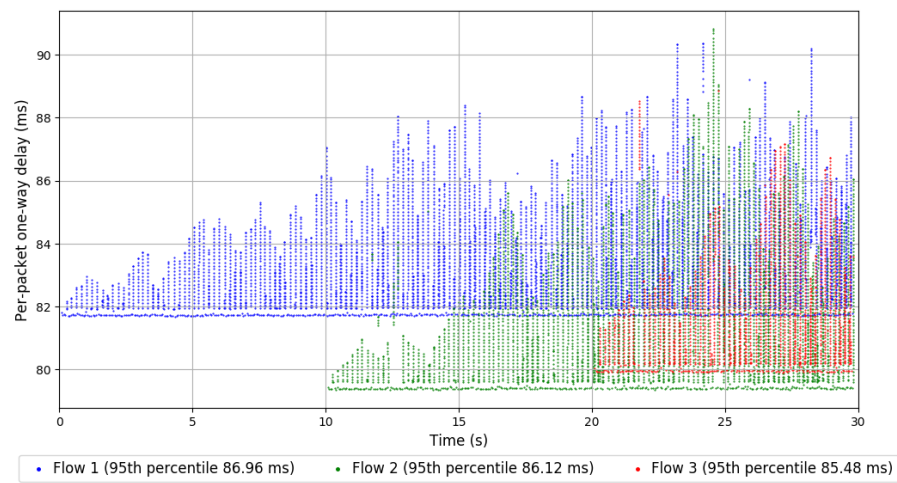
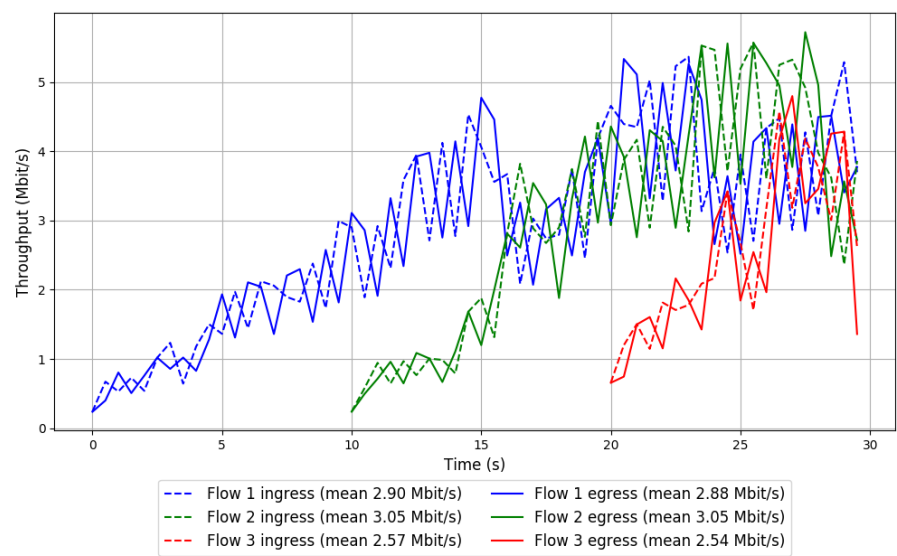


Run 2: Statistics of Sprout

Start at: 2018-03-13 14:38:30
End at: 2018-03-13 14:39:01
Local clock offset: -5.709 ms
Remote clock offset: 0.211 ms

```
# Below is generated by plot.py at 2018-03-13 22:04:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.73 Mbit/s
95th percentile per-packet one-way delay: 86.627 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 2.88 Mbit/s
95th percentile per-packet one-way delay: 86.960 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 3.05 Mbit/s
95th percentile per-packet one-way delay: 86.125 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 2.54 Mbit/s
95th percentile per-packet one-way delay: 85.481 ms
Loss rate: 2.48%
```

Run 2: Report of Sprout — Data Link

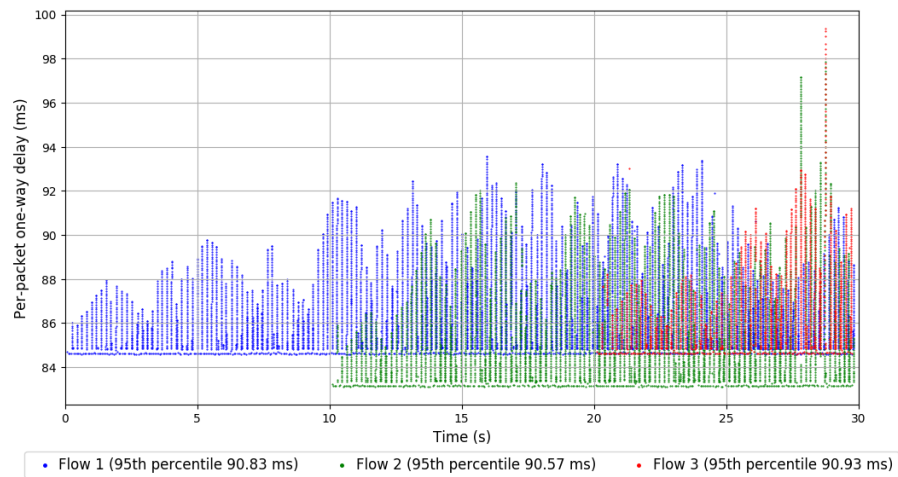
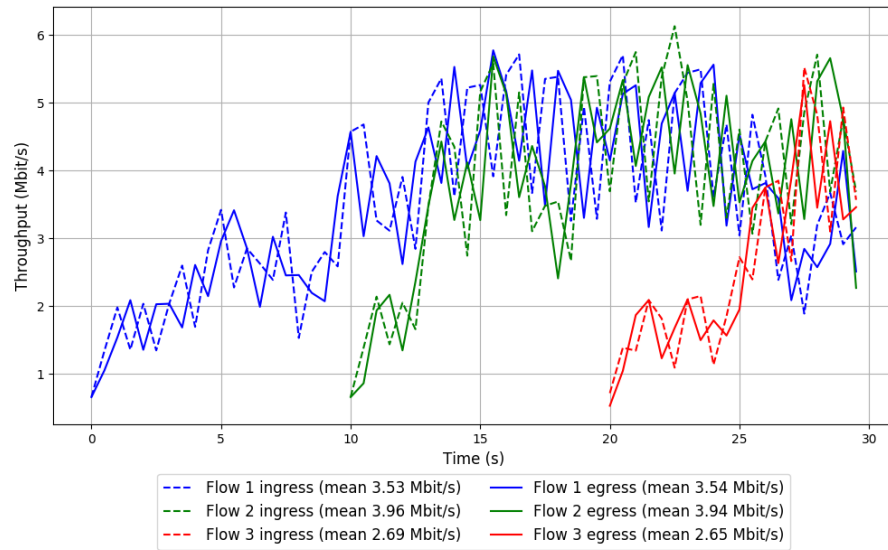


Run 3: Statistics of Sprout

Start at: 2018-03-13 15:02:13
End at: 2018-03-13 15:02:43
Local clock offset: -6.223 ms
Remote clock offset: -4.775 ms

```
# Below is generated by plot.py at 2018-03-13 22:04:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.01 Mbit/s
95th percentile per-packet one-way delay: 90.786 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 3.54 Mbit/s
95th percentile per-packet one-way delay: 90.826 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 3.94 Mbit/s
95th percentile per-packet one-way delay: 90.566 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 2.65 Mbit/s
95th percentile per-packet one-way delay: 90.927 ms
Loss rate: 3.33%
```


Run 3: Report of Sprout — Data Link

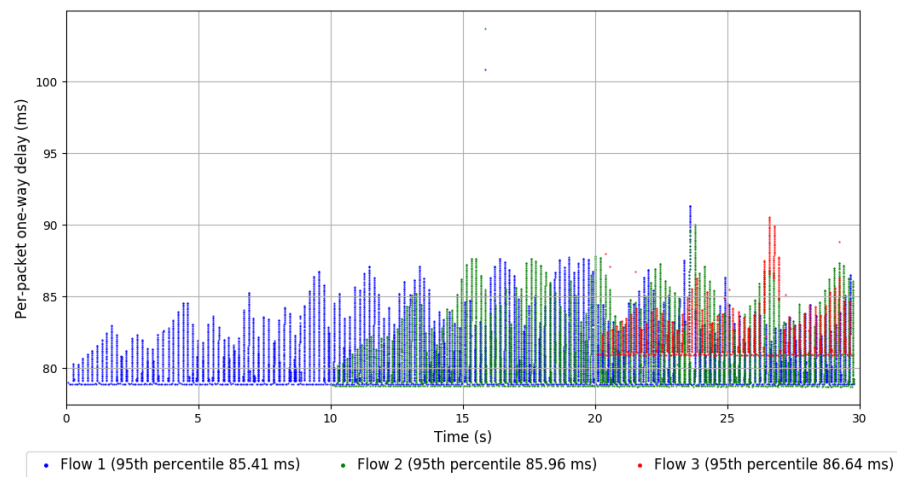
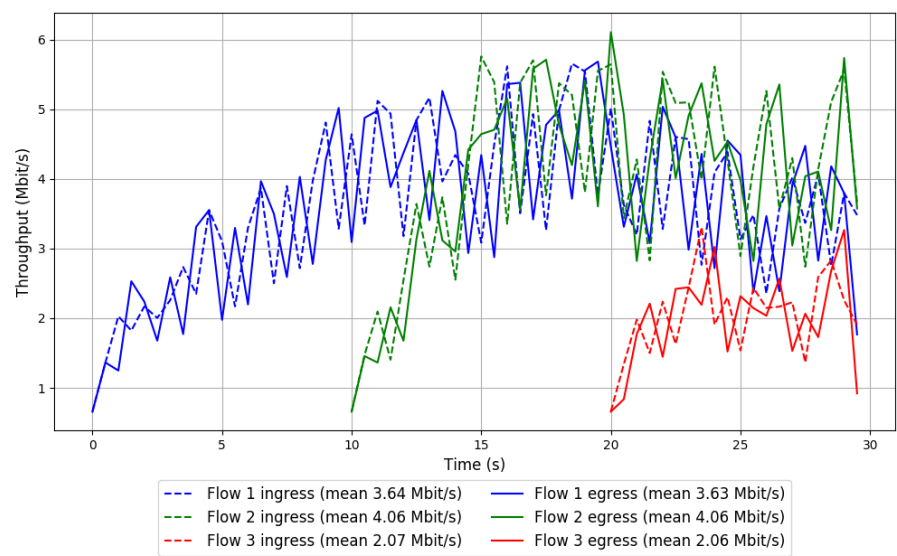


Run 4: Statistics of Sprout

Start at: 2018-03-13 15:25:50
End at: 2018-03-13 15:26:20
Local clock offset: -5.892 ms
Remote clock offset: 0.977 ms

```
# Below is generated by plot.py at 2018-03-13 22:04:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.99 Mbit/s
95th percentile per-packet one-way delay: 85.754 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 3.63 Mbit/s
95th percentile per-packet one-way delay: 85.411 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 4.06 Mbit/s
95th percentile per-packet one-way delay: 85.956 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 86.637 ms
Loss rate: 2.43%
```

Run 4: Report of Sprout — Data Link

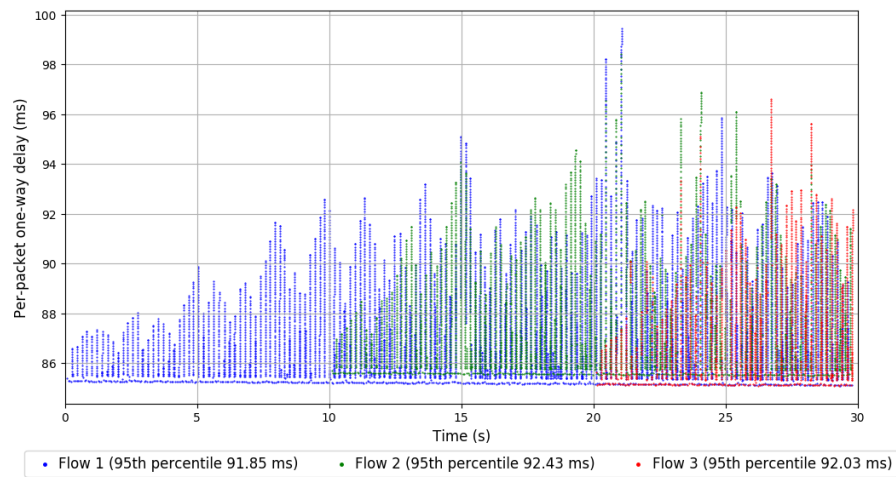
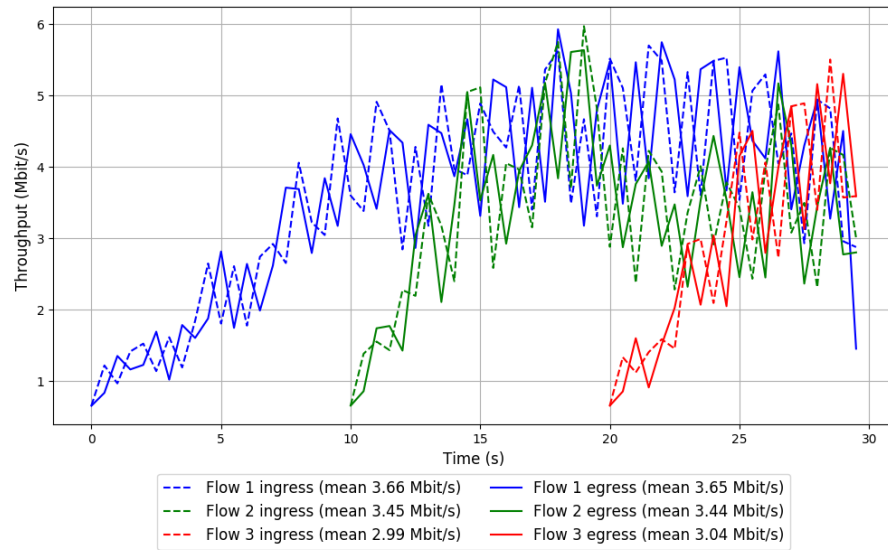


Run 5: Statistics of Sprout

Start at: 2018-03-13 15:49:25
End at: 2018-03-13 15:49:55
Local clock offset: -5.308 ms
Remote clock offset: -6.366 ms

```
# Below is generated by plot.py at 2018-03-13 22:04:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.92 Mbit/s
95th percentile per-packet one-way delay: 92.086 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 3.65 Mbit/s
95th percentile per-packet one-way delay: 91.852 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 3.44 Mbit/s
95th percentile per-packet one-way delay: 92.427 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 3.04 Mbit/s
95th percentile per-packet one-way delay: 92.032 ms
Loss rate: 0.01%
```

Run 5: Report of Sprout — Data Link

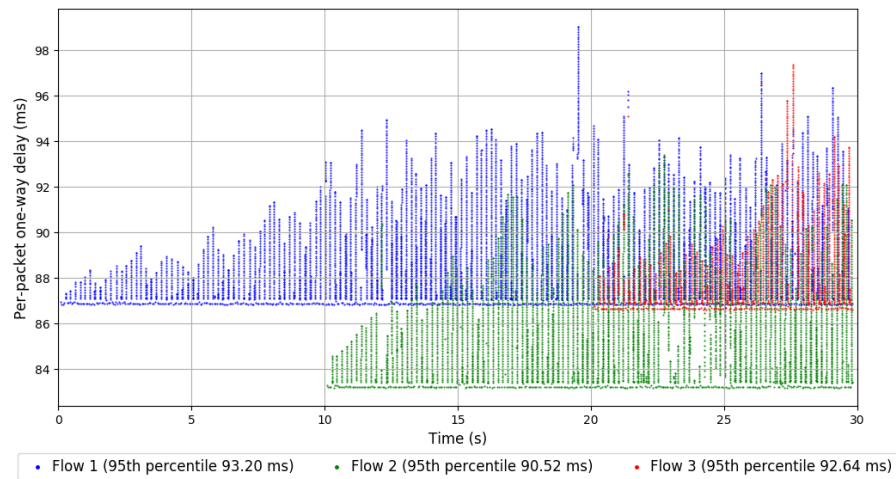
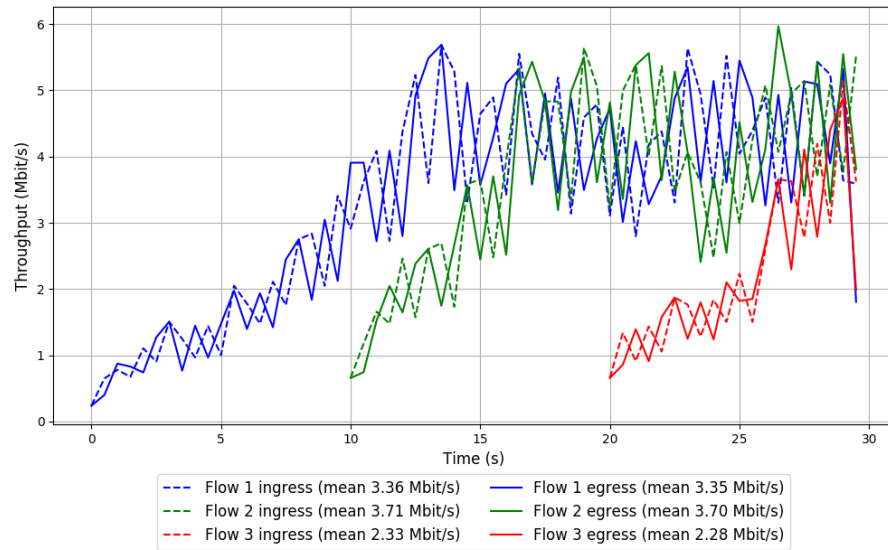


Run 6: Statistics of Sprout

Start at: 2018-03-13 16:12:57
End at: 2018-03-13 16:13:27
Local clock offset: -1.857 ms
Remote clock offset: -5.665 ms

Below is generated by plot.py at 2018-03-13 22:04:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.54 Mbit/s
95th percentile per-packet one-way delay: 92.538 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 3.35 Mbit/s
95th percentile per-packet one-way delay: 93.197 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 3.70 Mbit/s
95th percentile per-packet one-way delay: 90.515 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 92.637 ms
Loss rate: 4.08%

Run 6: Report of Sprout — Data Link

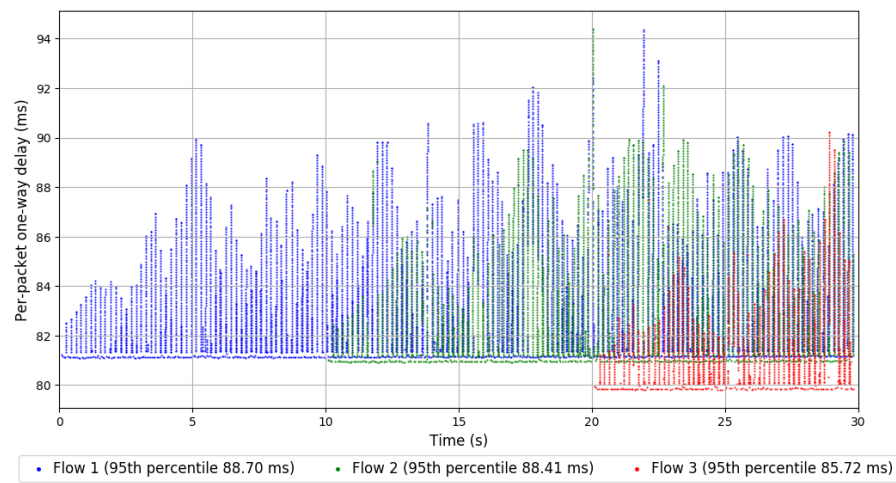
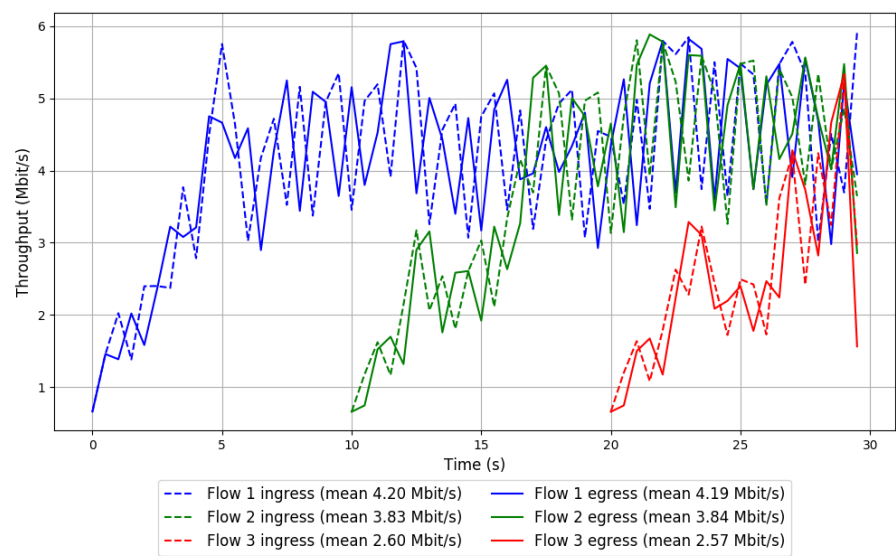


Run 7: Statistics of Sprout

Start at: 2018-03-13 16:36:27
End at: 2018-03-13 16:36:57
Local clock offset: -3.001 ms
Remote clock offset: -1.356 ms

Below is generated by plot.py at 2018-03-13 22:04:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.58 Mbit/s
95th percentile per-packet one-way delay: 88.450 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 4.19 Mbit/s
95th percentile per-packet one-way delay: 88.704 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 3.84 Mbit/s
95th percentile per-packet one-way delay: 88.412 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 2.57 Mbit/s
95th percentile per-packet one-way delay: 85.724 ms
Loss rate: 2.69%

Run 7: Report of Sprout — Data Link

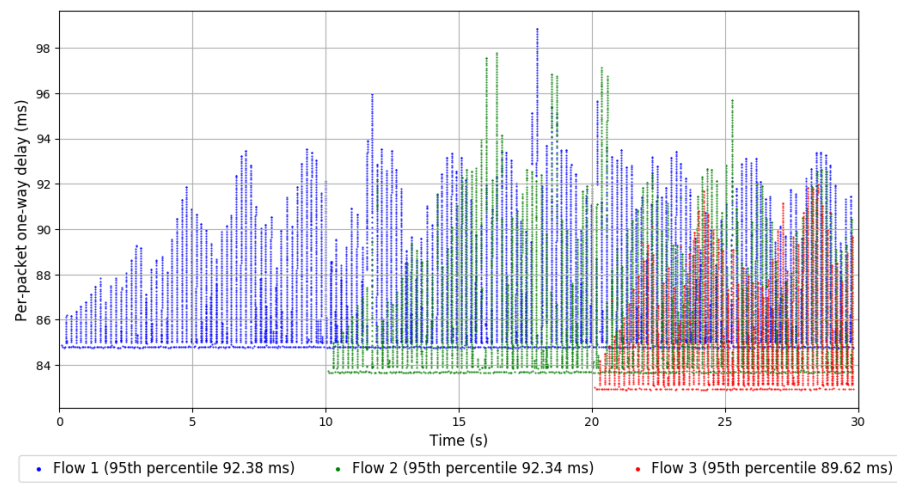
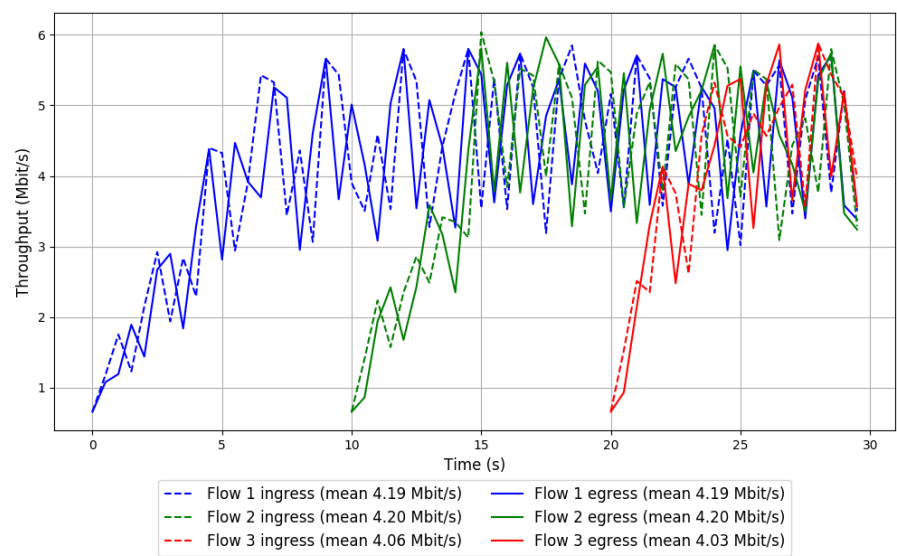


Run 8: Statistics of Sprout

Start at: 2018-03-13 16:59:56
End at: 2018-03-13 17:00:26
Local clock offset: -3.163 ms
Remote clock offset: -4.753 ms

Below is generated by plot.py at 2018-03-13 22:04:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.28 Mbit/s
95th percentile per-packet one-way delay: 92.130 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 4.19 Mbit/s
95th percentile per-packet one-way delay: 92.382 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 92.341 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 4.03 Mbit/s
95th percentile per-packet one-way delay: 89.619 ms
Loss rate: 2.22%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-03-13 17:23:29

End at: 2018-03-13 17:23:59

Local clock offset: -2.82 ms

Remote clock offset: 0.046 ms

Below is generated by plot.py at 2018-03-13 22:04:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 85.866 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 85.859 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 3.76 Mbit/s

95th percentile per-packet one-way delay: 86.106 ms

Loss rate: 1.08%

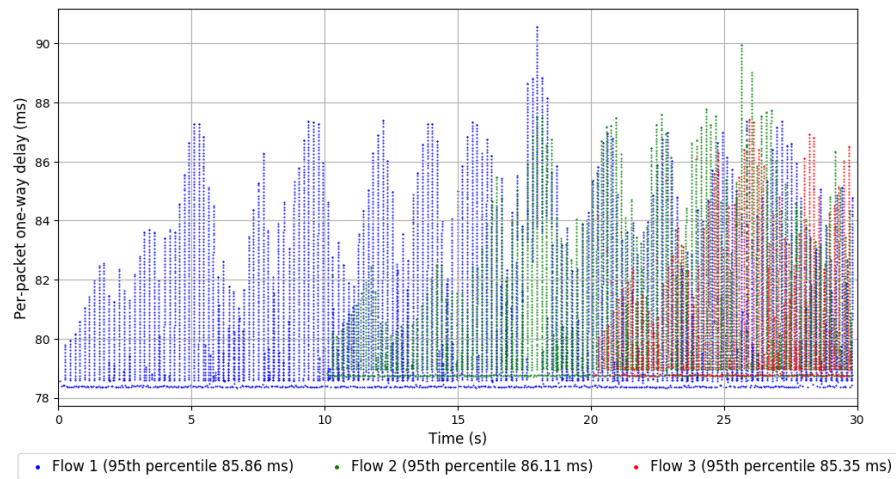
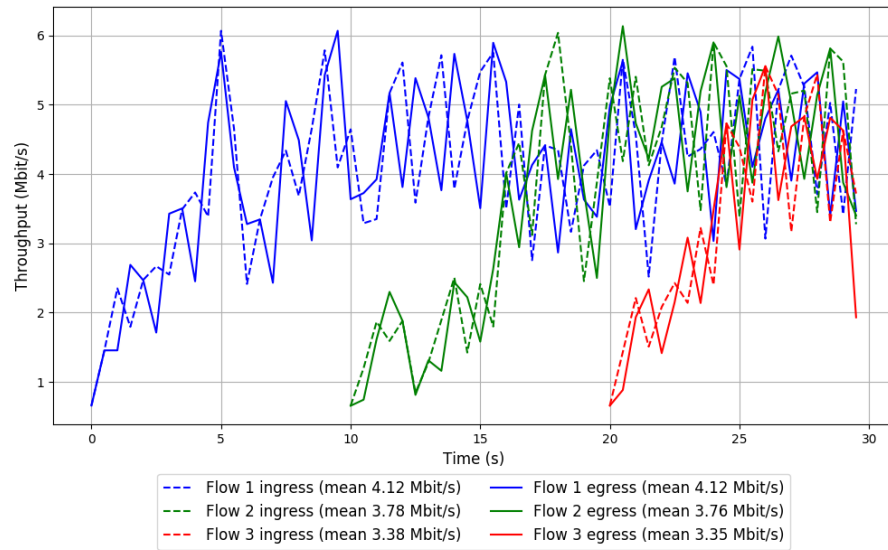
-- Flow 3:

Average throughput: 3.35 Mbit/s

95th percentile per-packet one-way delay: 85.347 ms

Loss rate: 2.69%

Run 9: Report of Sprout — Data Link

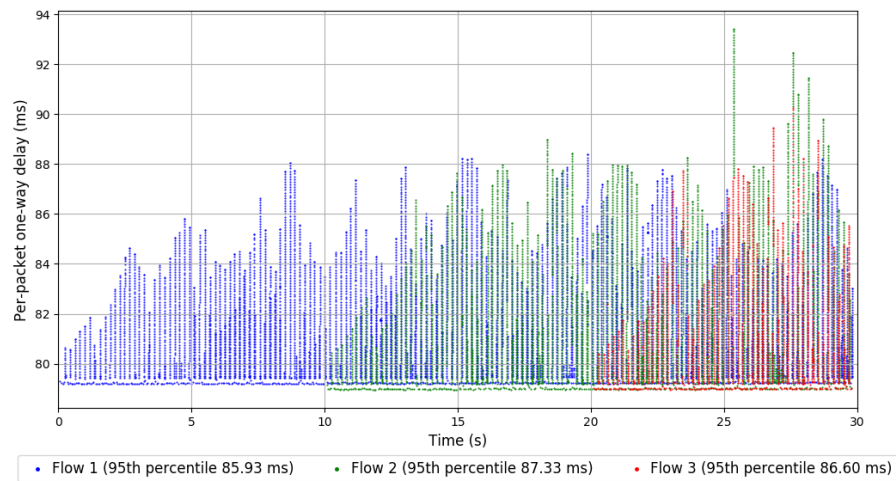
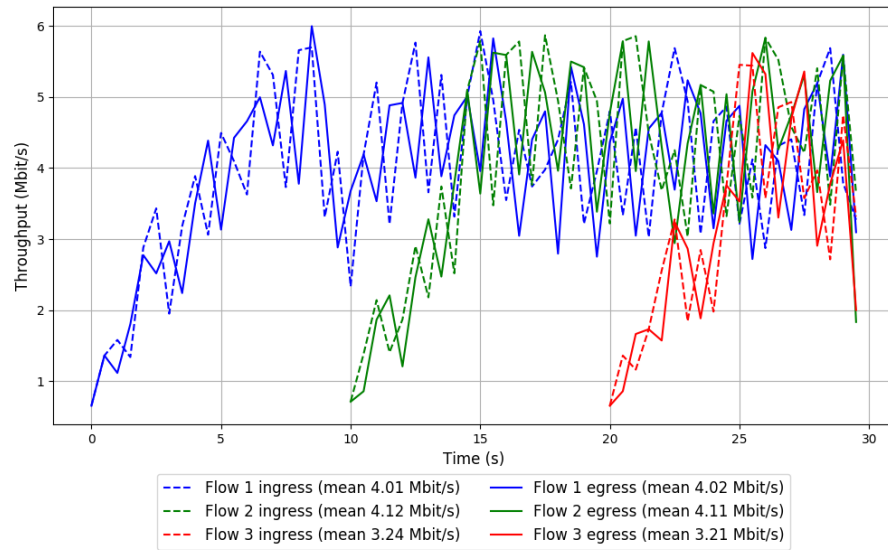


Run 10: Statistics of Sprout

Start at: 2018-03-13 17:47:09
End at: 2018-03-13 17:47:39
Local clock offset: -5.847 ms
Remote clock offset: 0.91 ms

```
# Below is generated by plot.py at 2018-03-13 22:04:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.79 Mbit/s
95th percentile per-packet one-way delay: 86.602 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 4.02 Mbit/s
95th percentile per-packet one-way delay: 85.928 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 87.328 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 3.21 Mbit/s
95th percentile per-packet one-way delay: 86.603 ms
Loss rate: 2.62%
```

Run 10: Report of Sprout — Data Link

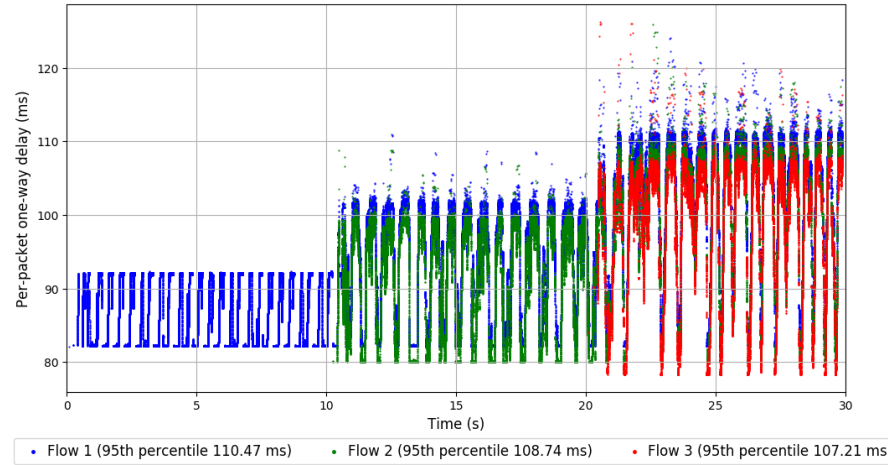
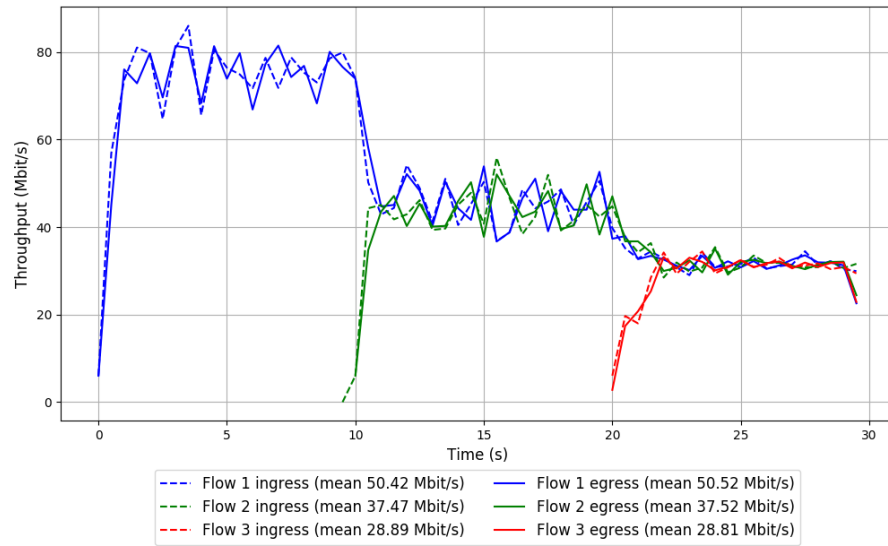


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-03-13 14:24:02
End at: 2018-03-13 14:24:32
Local clock offset: -5.863 ms
Remote clock offset: -0.244 ms

# Below is generated by plot.py at 2018-03-13 22:06:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.88 Mbit/s
95th percentile per-packet one-way delay: 108.869 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 50.52 Mbit/s
95th percentile per-packet one-way delay: 110.470 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 37.52 Mbit/s
95th percentile per-packet one-way delay: 108.737 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 28.81 Mbit/s
95th percentile per-packet one-way delay: 107.210 ms
Loss rate: 2.02%
```


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

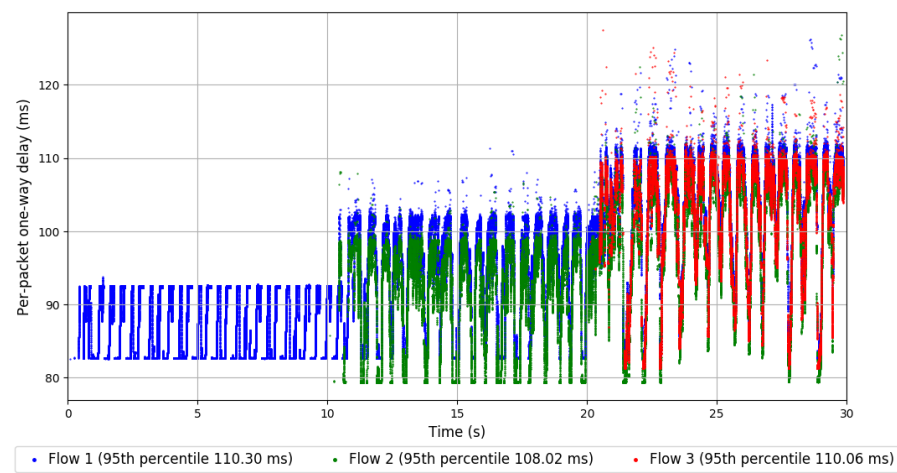
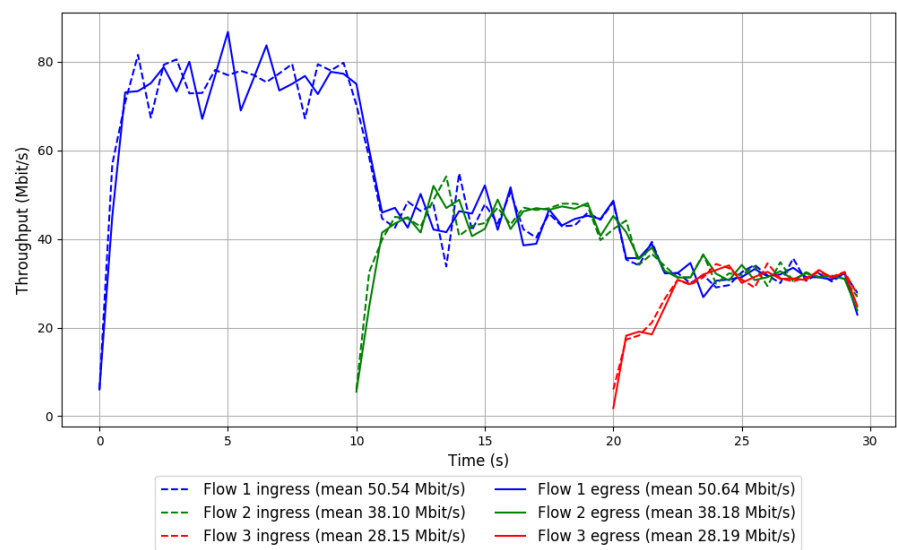


Run 2: Statistics of TaoVA-100x

Start at: 2018-03-13 14:47:38
End at: 2018-03-13 14:48:08
Local clock offset: -5.971 ms
Remote clock offset: -0.653 ms

Below is generated by plot.py at 2018-03-13 22:06:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.22 Mbit/s
95th percentile per-packet one-way delay: 109.842 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 50.64 Mbit/s
95th percentile per-packet one-way delay: 110.301 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 38.18 Mbit/s
95th percentile per-packet one-way delay: 108.021 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 28.19 Mbit/s
95th percentile per-packet one-way delay: 110.063 ms
Loss rate: 1.73%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-03-13 15:11:22

End at: 2018-03-13 15:11:52

Local clock offset: -6.308 ms

Remote clock offset: 0.98 ms

Below is generated by plot.py at 2018-03-13 22:06:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.38 Mbit/s

95th percentile per-packet one-way delay: 107.706 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 50.90 Mbit/s

95th percentile per-packet one-way delay: 106.780 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 37.87 Mbit/s

95th percentile per-packet one-way delay: 107.603 ms

Loss rate: 0.68%

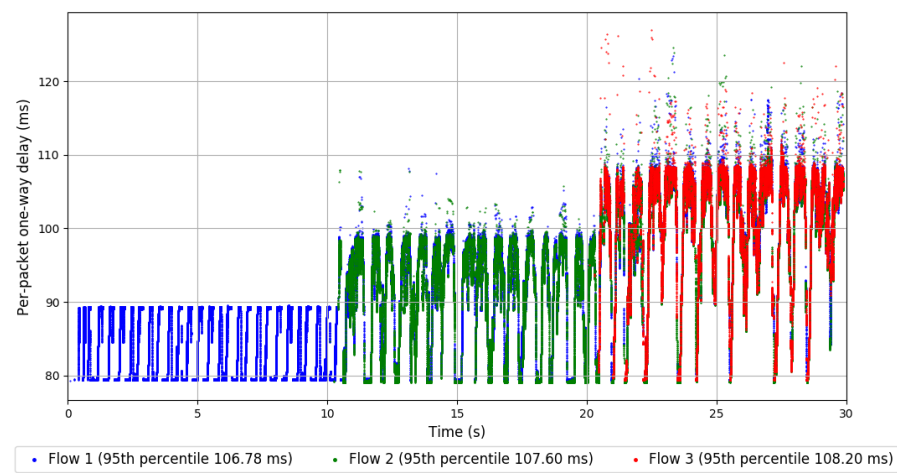
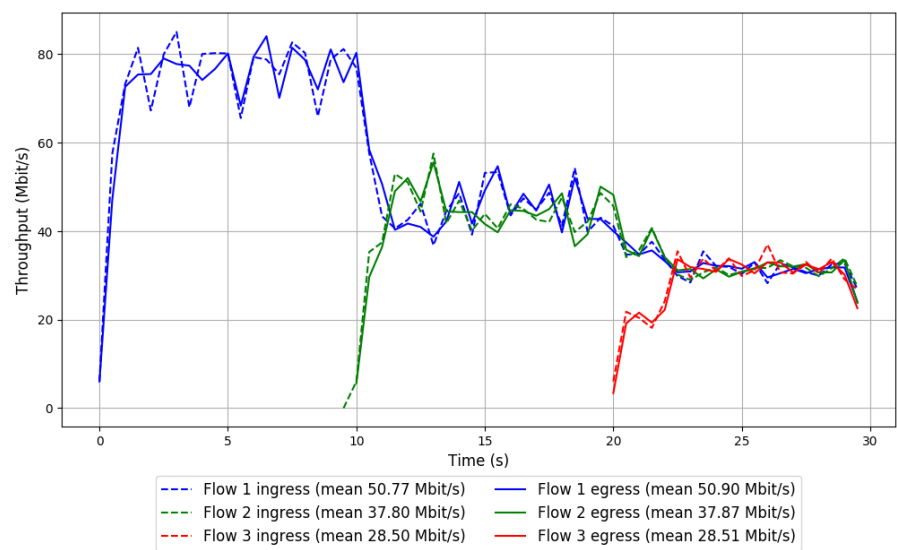
-- Flow 3:

Average throughput: 28.51 Mbit/s

95th percentile per-packet one-way delay: 108.199 ms

Loss rate: 1.81%

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

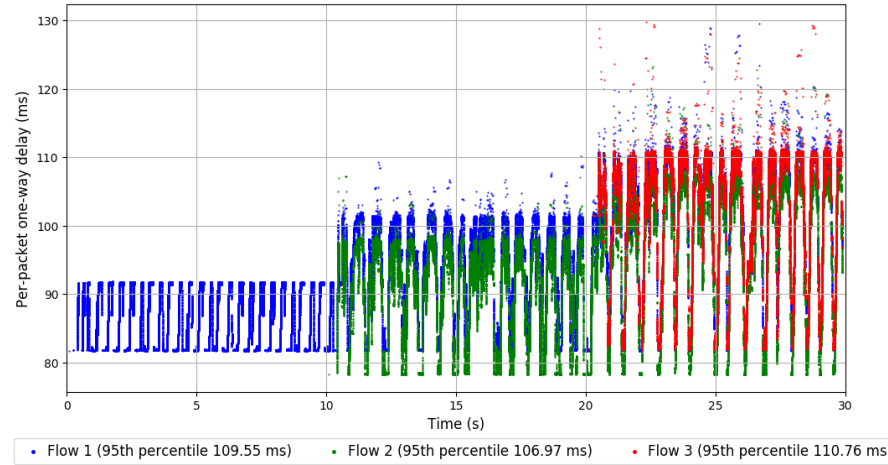
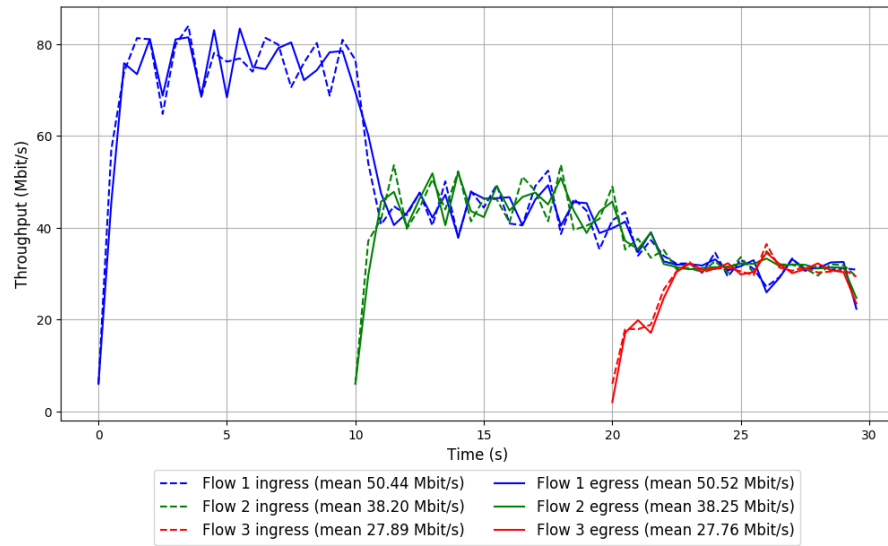


Run 4: Statistics of TaoVA-100x

Start at: 2018-03-13 15:34:57
End at: 2018-03-13 15:35:27
Local clock offset: -5.849 ms
Remote clock offset: -0.566 ms

Below is generated by plot.py at 2018-03-13 22:06:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.04 Mbit/s
95th percentile per-packet one-way delay: 110.096 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 50.52 Mbit/s
95th percentile per-packet one-way delay: 109.548 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 38.25 Mbit/s
95th percentile per-packet one-way delay: 106.975 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 27.76 Mbit/s
95th percentile per-packet one-way delay: 110.764 ms
Loss rate: 2.09%

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

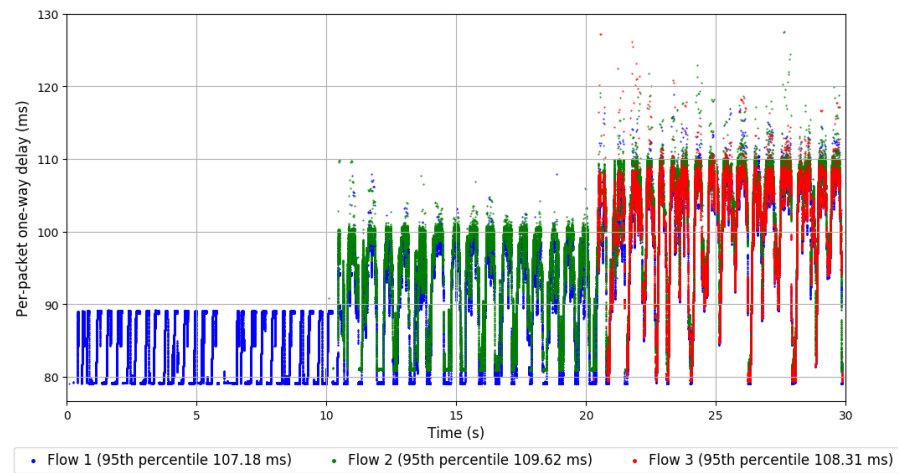
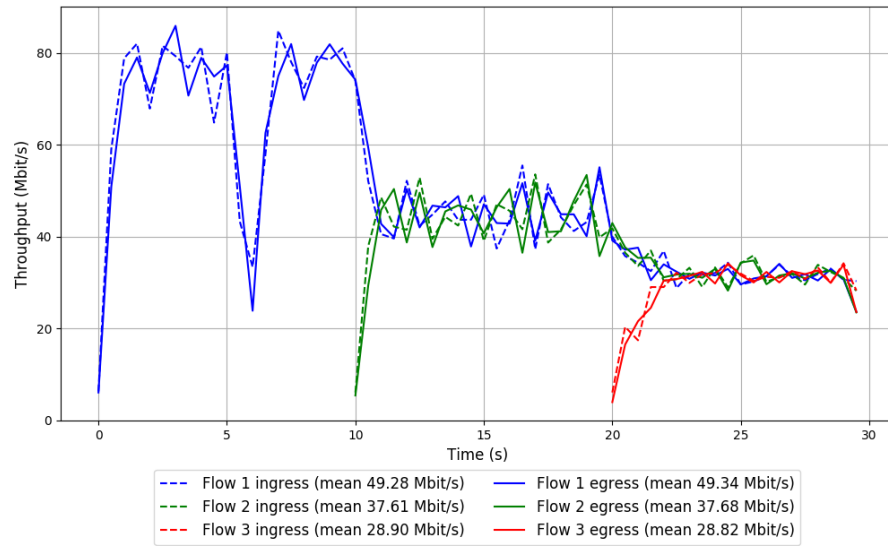


Run 5: Statistics of TaoVA-100x

Start at: 2018-03-13 15:58:30
End at: 2018-03-13 15:59:00
Local clock offset: -3.238 ms
Remote clock offset: -1.659 ms

Below is generated by plot.py at 2018-03-13 22:06:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.81 Mbit/s
95th percentile per-packet one-way delay: 108.222 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 49.34 Mbit/s
95th percentile per-packet one-way delay: 107.177 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 37.68 Mbit/s
95th percentile per-packet one-way delay: 109.621 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 28.82 Mbit/s
95th percentile per-packet one-way delay: 108.313 ms
Loss rate: 2.02%

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

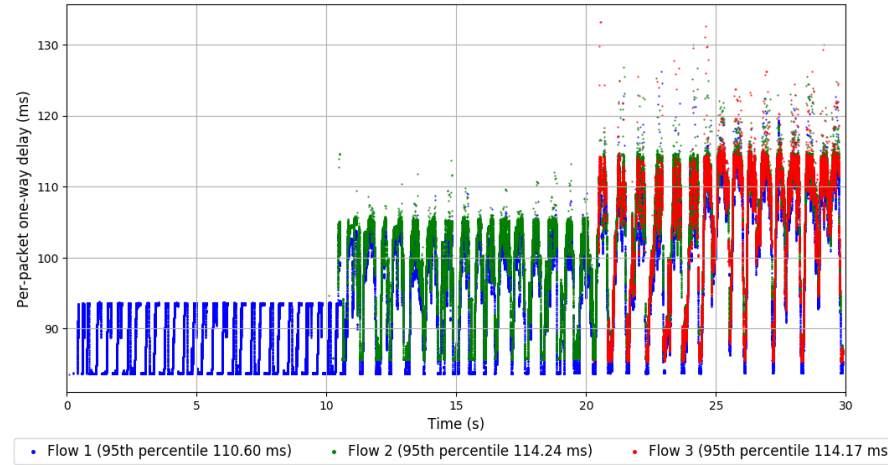
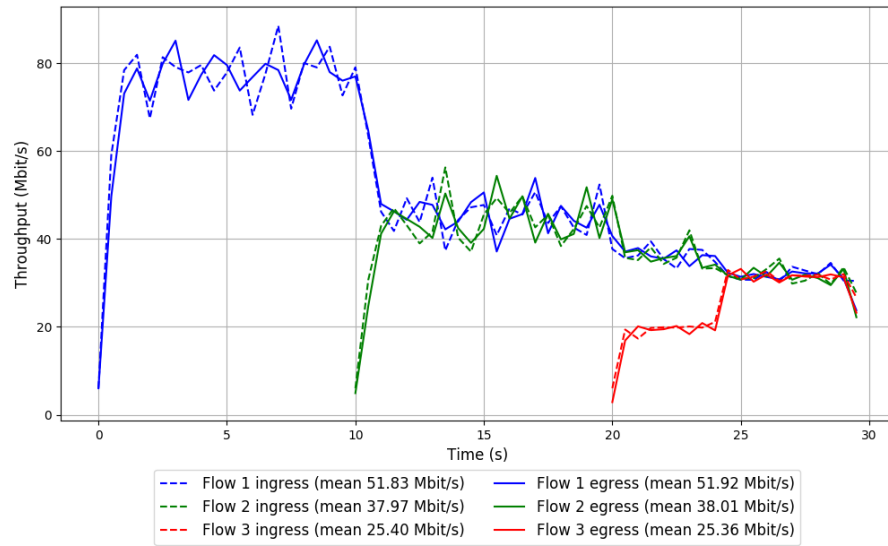


Run 6: Statistics of TaoVA-100x

Start at: 2018-03-13 16:22:03
End at: 2018-03-13 16:22:33
Local clock offset: -1.359 ms
Remote clock offset: -5.628 ms

Below is generated by plot.py at 2018-03-13 22:06:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.47 Mbit/s
95th percentile per-packet one-way delay: 112.834 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 51.92 Mbit/s
95th percentile per-packet one-way delay: 110.596 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 38.01 Mbit/s
95th percentile per-packet one-way delay: 114.236 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 25.36 Mbit/s
95th percentile per-packet one-way delay: 114.174 ms
Loss rate: 2.14%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-03-13 16:45:32

End at: 2018-03-13 16:46:02

Local clock offset: -3.176 ms

Remote clock offset: 0.071 ms

Below is generated by plot.py at 2018-03-13 22:06:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.78 Mbit/s

95th percentile per-packet one-way delay: 107.374 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 50.77 Mbit/s

95th percentile per-packet one-way delay: 106.715 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 36.52 Mbit/s

95th percentile per-packet one-way delay: 107.006 ms

Loss rate: 0.95%

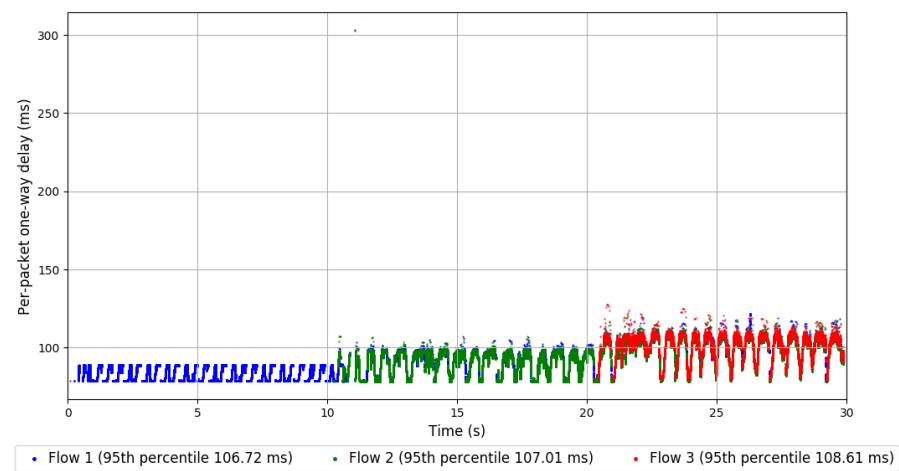
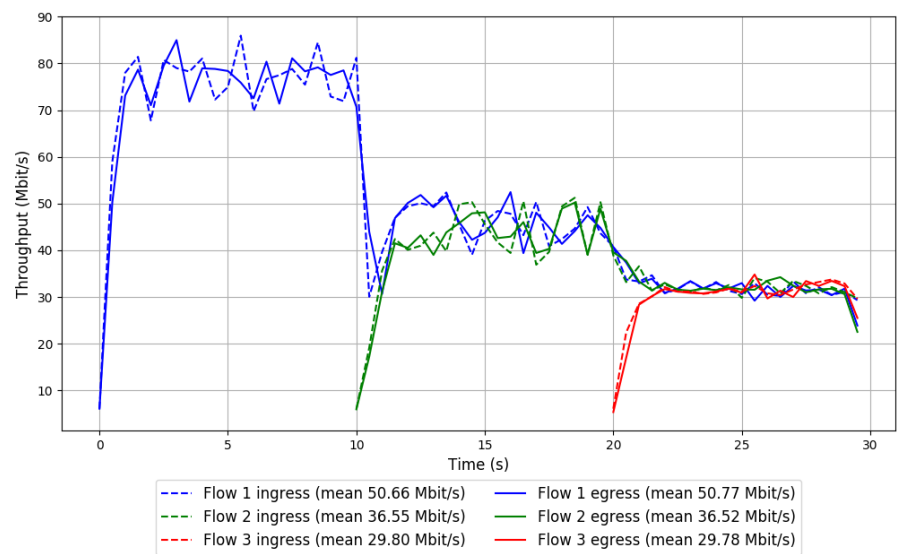
-- Flow 3:

Average throughput: 29.78 Mbit/s

95th percentile per-packet one-way delay: 108.606 ms

Loss rate: 1.91%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-03-13 17:09:04

End at: 2018-03-13 17:09:34

Local clock offset: -3.02 ms

Remote clock offset: 0.002 ms

Below is generated by plot.py at 2018-03-13 22:06:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.66 Mbit/s

95th percentile per-packet one-way delay: 107.416 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 51.44 Mbit/s

95th percentile per-packet one-way delay: 106.168 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 38.06 Mbit/s

95th percentile per-packet one-way delay: 107.308 ms

Loss rate: 0.84%

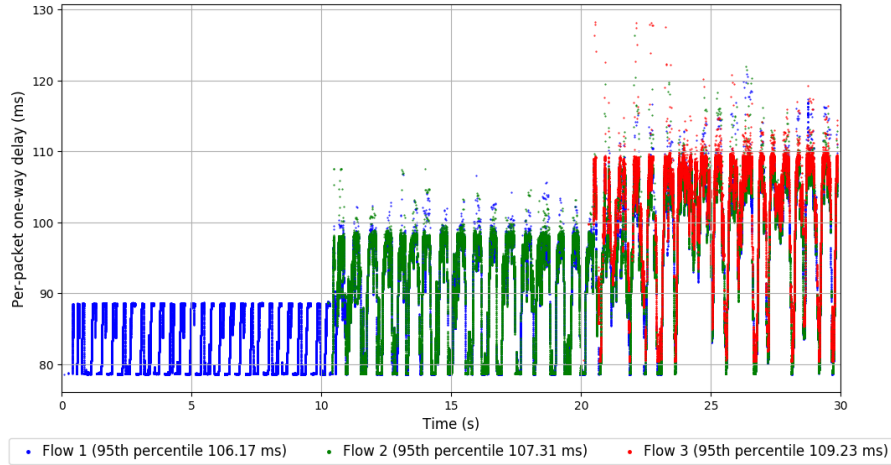
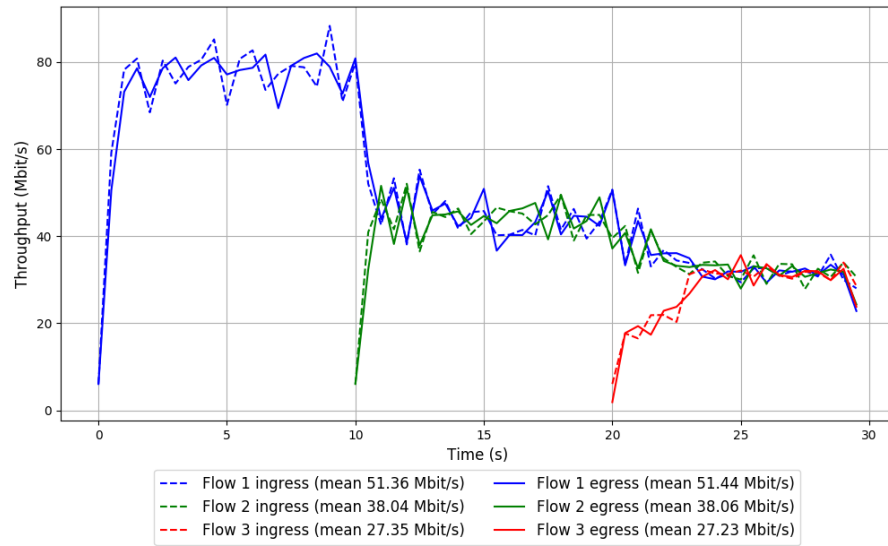
-- Flow 3:

Average throughput: 27.23 Mbit/s

95th percentile per-packet one-way delay: 109.227 ms

Loss rate: 2.05%

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

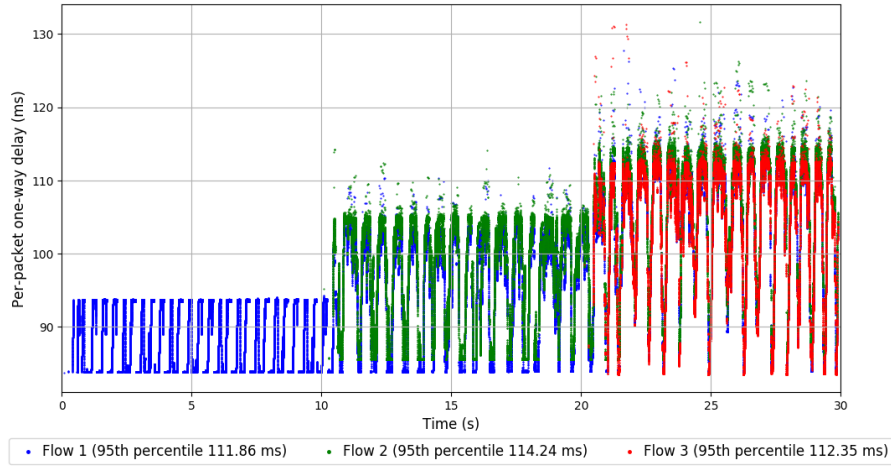
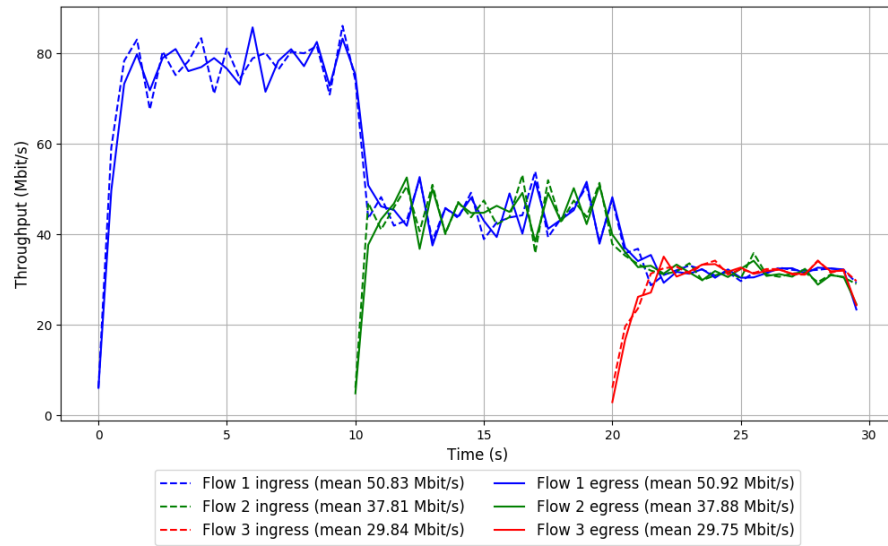


Run 9: Statistics of TaoVA-100x

Start at: 2018-03-13 17:32:46
End at: 2018-03-13 17:33:16
Local clock offset: -3.421 ms
Remote clock offset: -4.882 ms

Below is generated by plot.py at 2018-03-13 22:08:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.82 Mbit/s
95th percentile per-packet one-way delay: 112.636 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 50.92 Mbit/s
95th percentile per-packet one-way delay: 111.857 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 37.88 Mbit/s
95th percentile per-packet one-way delay: 114.239 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 29.75 Mbit/s
95th percentile per-packet one-way delay: 112.353 ms
Loss rate: 2.11%

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

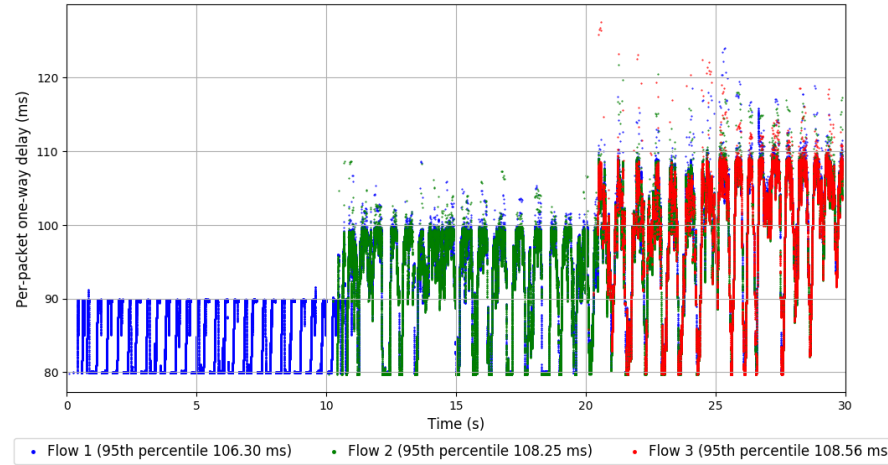
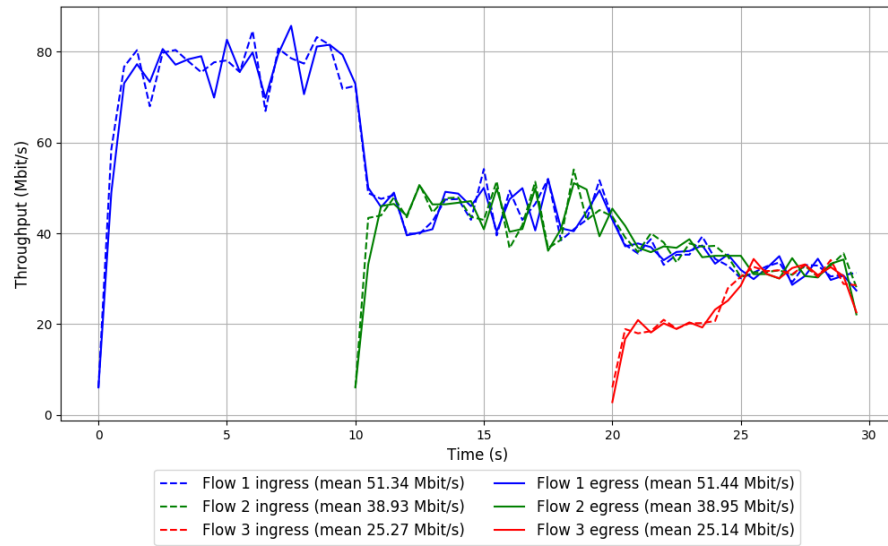


Run 10: Statistics of TaoVA-100x

Start at: 2018-03-13 17:56:18
End at: 2018-03-13 17:56:48
Local clock offset: -6.453 ms
Remote clock offset: -0.826 ms

Below is generated by plot.py at 2018-03-13 22:08:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.55 Mbit/s
95th percentile per-packet one-way delay: 108.138 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 51.44 Mbit/s
95th percentile per-packet one-way delay: 106.298 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 38.95 Mbit/s
95th percentile per-packet one-way delay: 108.250 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 25.14 Mbit/s
95th percentile per-packet one-way delay: 108.555 ms
Loss rate: 2.22%

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

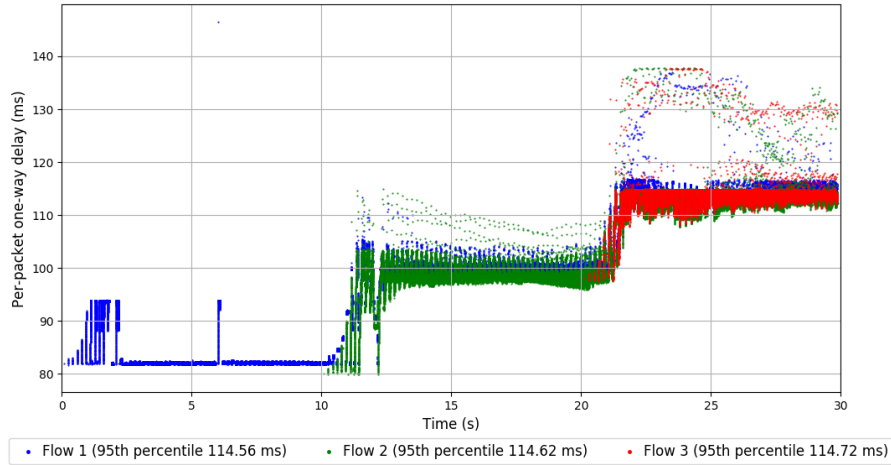
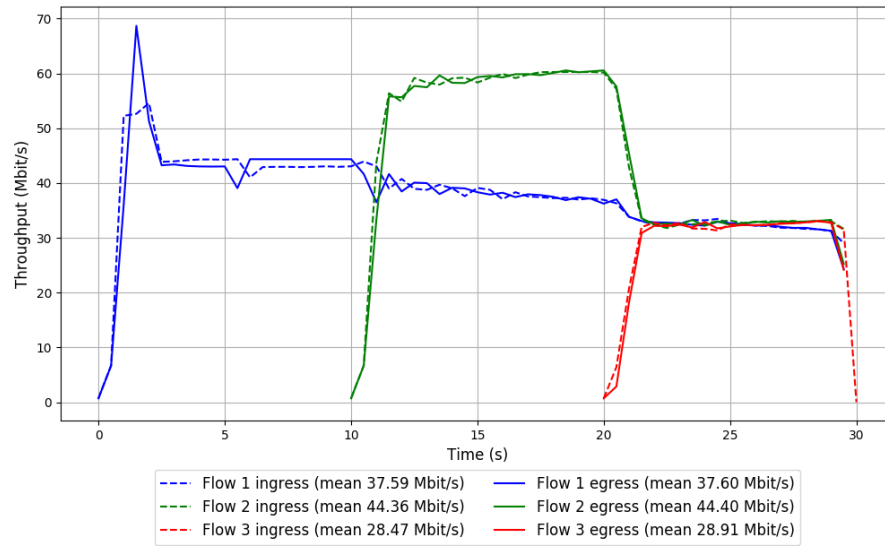


Run 1: Statistics of TCP Vegas

Start at: 2018-03-13 14:21:24
End at: 2018-03-13 14:21:54
Local clock offset: -5.905 ms
Remote clock offset: -0.054 ms

Below is generated by plot.py at 2018-03-13 22:08:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.53 Mbit/s
95th percentile per-packet one-way delay: 114.675 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 37.60 Mbit/s
95th percentile per-packet one-way delay: 114.565 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 44.40 Mbit/s
95th percentile per-packet one-way delay: 114.623 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 28.91 Mbit/s
95th percentile per-packet one-way delay: 114.718 ms
Loss rate: 2.44%

Run 1: Report of TCP Vegas — Data Link

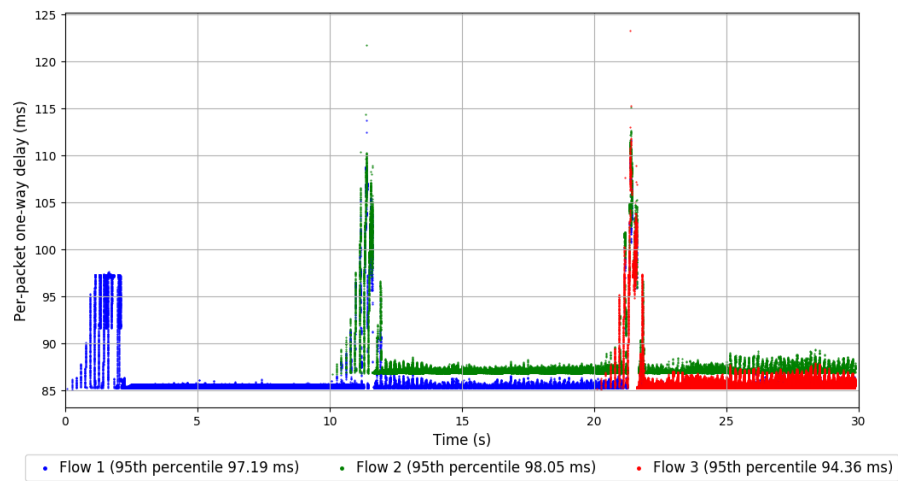
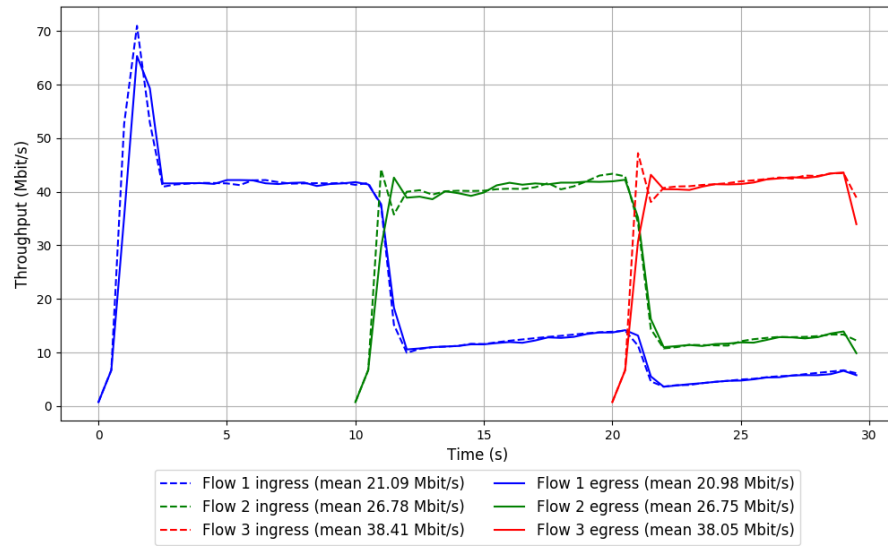


Run 2: Statistics of TCP Vegas

Start at: 2018-03-13 14:45:01
End at: 2018-03-13 14:45:31
Local clock offset: -5.902 ms
Remote clock offset: -4.769 ms

Below is generated by plot.py at 2018-03-13 22:08:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 51.22 Mbit/s
95th percentile per-packet one-way delay: 97.164 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 20.98 Mbit/s
95th percentile per-packet one-way delay: 97.187 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 26.75 Mbit/s
95th percentile per-packet one-way delay: 98.047 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 38.05 Mbit/s
95th percentile per-packet one-way delay: 94.359 ms
Loss rate: 2.59%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-03-13 15:08:43

End at: 2018-03-13 15:09:13

Local clock offset: -6.271 ms

Remote clock offset: 0.148 ms

Below is generated by plot.py at 2018-03-13 22:08:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.73 Mbit/s

95th percentile per-packet one-way delay: 115.593 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 37.62 Mbit/s

95th percentile per-packet one-way delay: 114.054 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 44.30 Mbit/s

95th percentile per-packet one-way delay: 113.052 ms

Loss rate: 0.80%

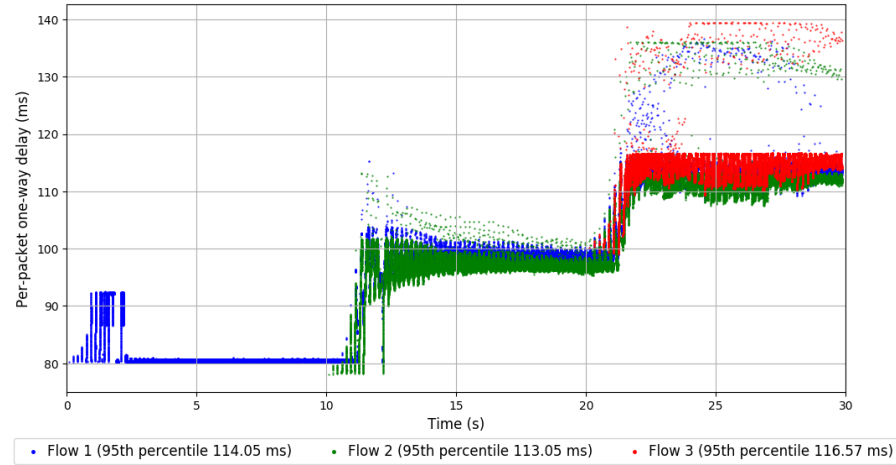
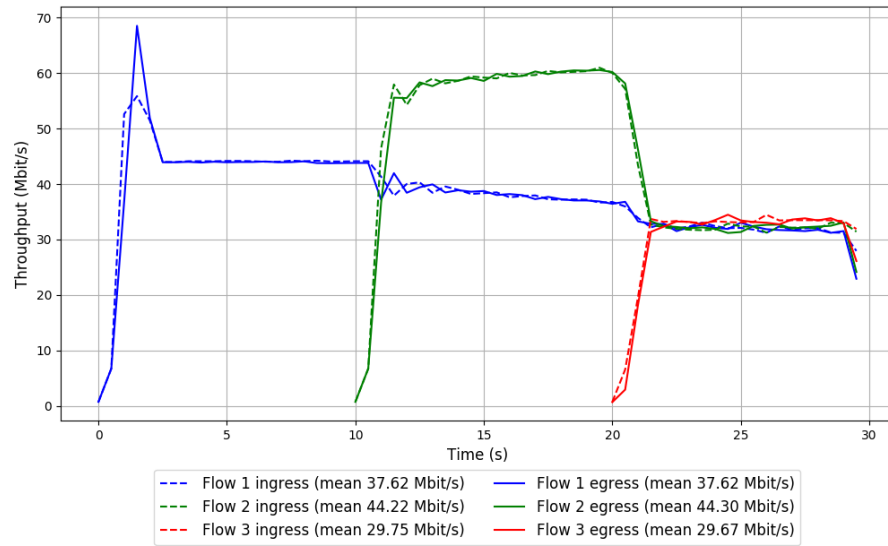
-- Flow 3:

Average throughput: 29.67 Mbit/s

95th percentile per-packet one-way delay: 116.570 ms

Loss rate: 2.40%

Run 3: Report of TCP Vegas — Data Link

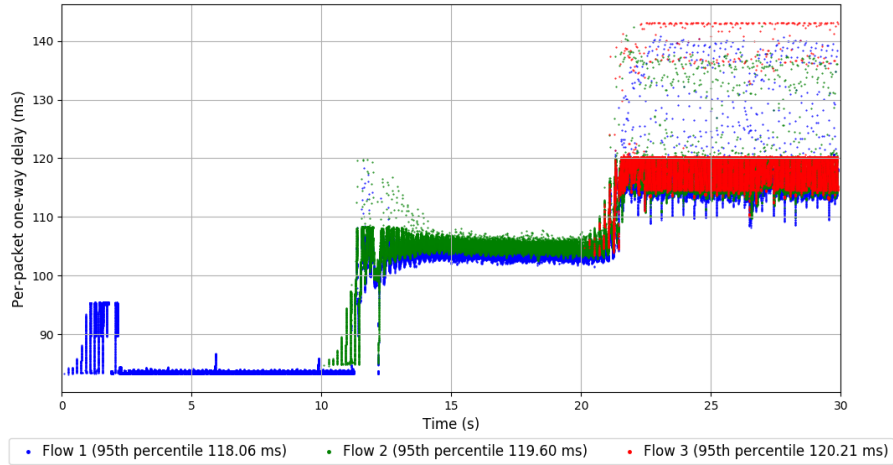
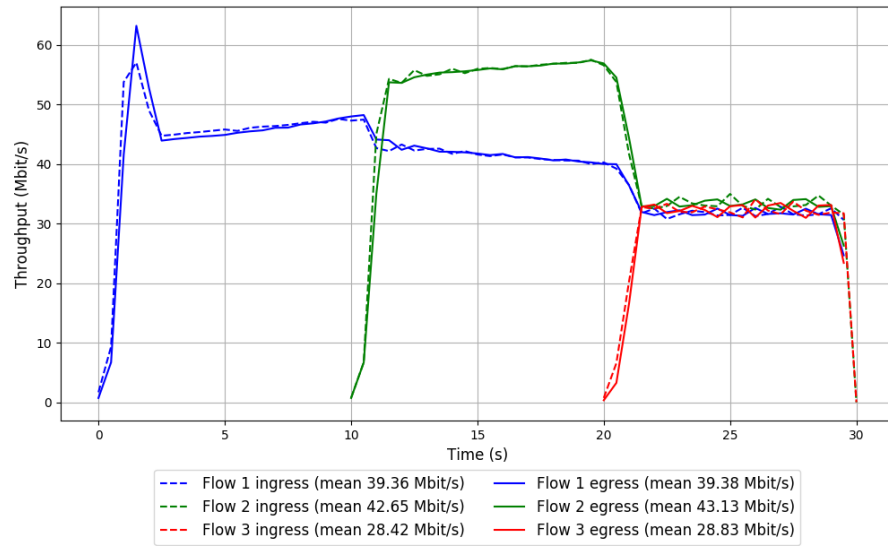


Run 4: Statistics of TCP Vegas

Start at: 2018-03-13 15:32:19
End at: 2018-03-13 15:32:49
Local clock offset: -5.837 ms
Remote clock offset: -5.306 ms

```
# Below is generated by plot.py at 2018-03-13 22:08:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.44 Mbit/s
95th percentile per-packet one-way delay: 119.698 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 39.38 Mbit/s
95th percentile per-packet one-way delay: 118.057 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 43.13 Mbit/s
95th percentile per-packet one-way delay: 119.597 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 28.83 Mbit/s
95th percentile per-packet one-way delay: 120.214 ms
Loss rate: 2.51%
```

Run 4: Report of TCP Vegas — Data Link

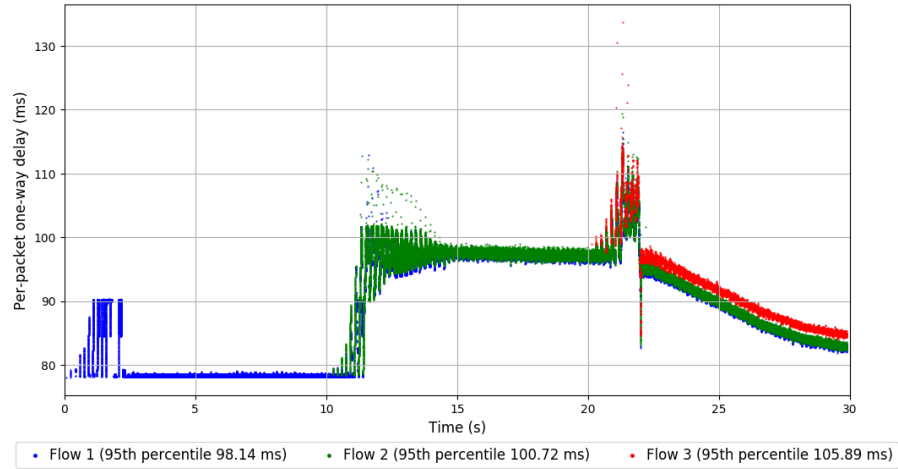
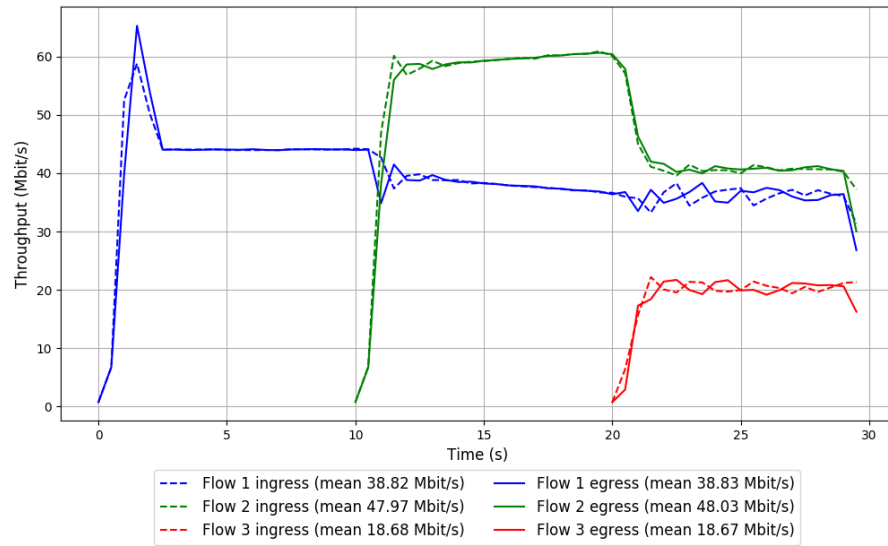


Run 5: Statistics of TCP Vegas

Start at: 2018-03-13 15:55:52
End at: 2018-03-13 15:56:22
Local clock offset: -3.628 ms
Remote clock offset: -0.636 ms

Below is generated by plot.py at 2018-03-13 22:08:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.84 Mbit/s
95th percentile per-packet one-way delay: 100.021 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 38.83 Mbit/s
95th percentile per-packet one-way delay: 98.135 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 48.03 Mbit/s
95th percentile per-packet one-way delay: 100.722 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 18.67 Mbit/s
95th percentile per-packet one-way delay: 105.894 ms
Loss rate: 1.96%

Run 5: Report of TCP Vegas — Data Link

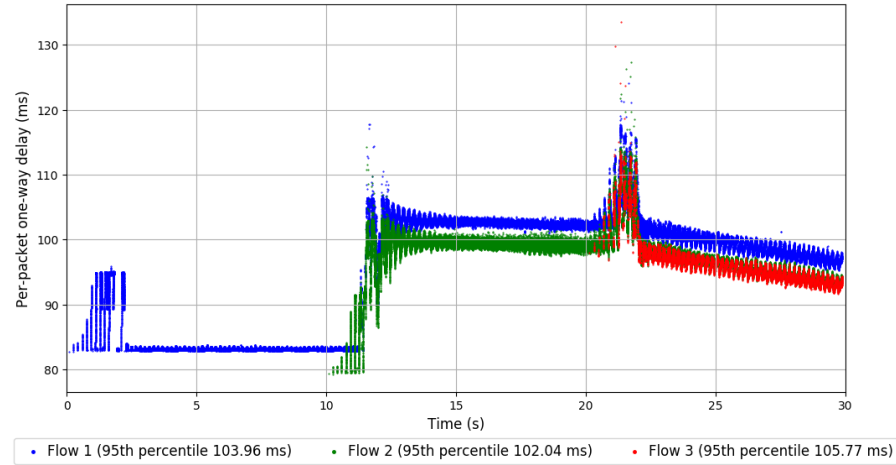
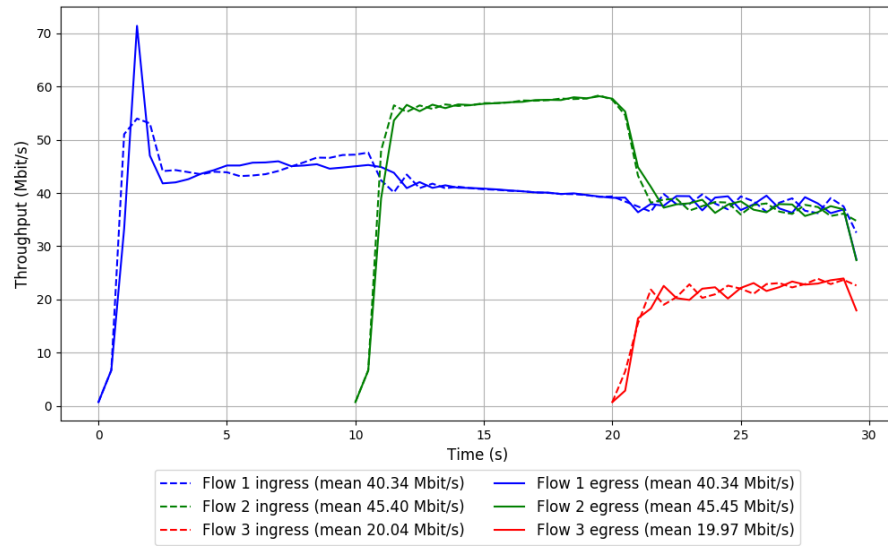


Run 6: Statistics of TCP Vegas

Start at: 2018-03-13 16:19:24
End at: 2018-03-13 16:19:54
Local clock offset: -1.495 ms
Remote clock offset: -1.538 ms

```
# Below is generated by plot.py at 2018-03-13 22:08:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.06 Mbit/s
95th percentile per-packet one-way delay: 103.546 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 40.34 Mbit/s
95th percentile per-packet one-way delay: 103.961 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 45.45 Mbit/s
95th percentile per-packet one-way delay: 102.040 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 19.97 Mbit/s
95th percentile per-packet one-way delay: 105.774 ms
Loss rate: 2.18%
```

Run 6: Report of TCP Vegas — Data Link

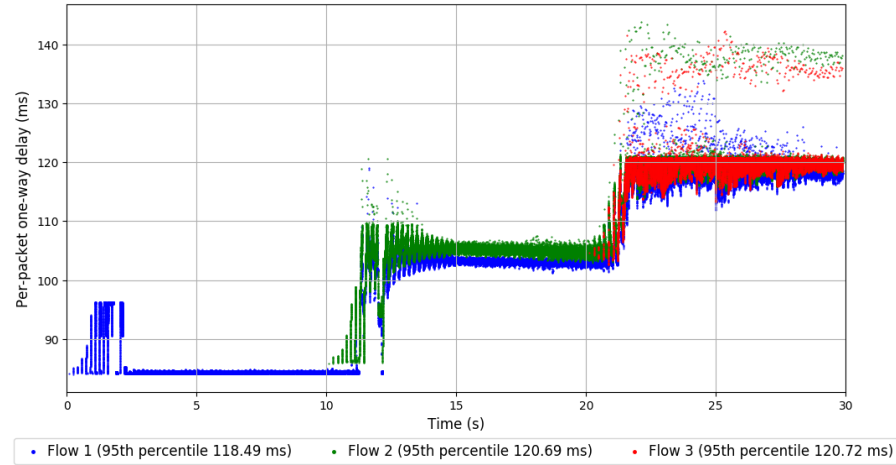
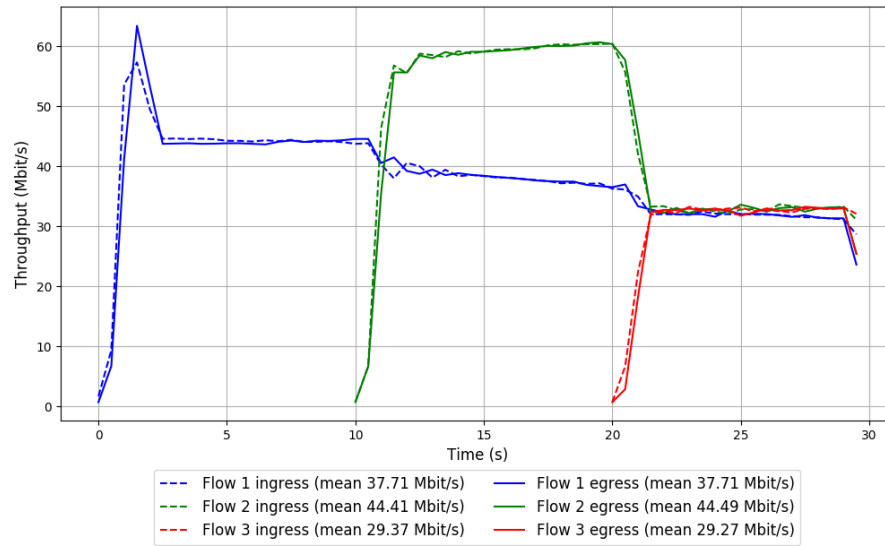


Run 7: Statistics of TCP Vegas

Start at: 2018-03-13 16:42:55
End at: 2018-03-13 16:43:25
Local clock offset: -3.151 ms
Remote clock offset: -5.871 ms

Below is generated by plot.py at 2018-03-13 22:08:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.84 Mbit/s
95th percentile per-packet one-way delay: 120.499 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 37.71 Mbit/s
95th percentile per-packet one-way delay: 118.488 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 44.49 Mbit/s
95th percentile per-packet one-way delay: 120.690 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 29.27 Mbit/s
95th percentile per-packet one-way delay: 120.721 ms
Loss rate: 2.46%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-03-13 17:06:25

End at: 2018-03-13 17:06:55

Local clock offset: -3.0 ms

Remote clock offset: 0.123 ms

Below is generated by plot.py at 2018-03-13 22:08:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.95 Mbit/s

95th percentile per-packet one-way delay: 103.833 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 39.12 Mbit/s

95th percentile per-packet one-way delay: 100.392 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 38.70 Mbit/s

95th percentile per-packet one-way delay: 106.798 ms

Loss rate: 0.42%

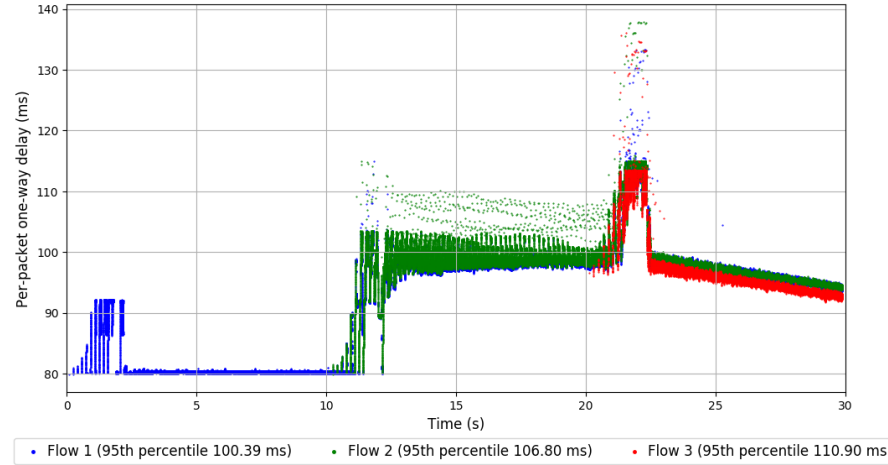
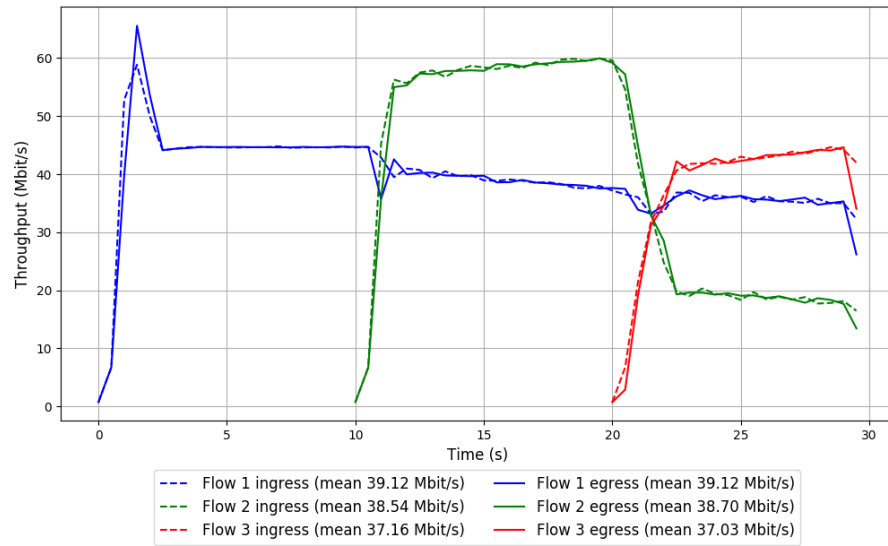
-- Flow 3:

Average throughput: 37.03 Mbit/s

95th percentile per-packet one-way delay: 110.902 ms

Loss rate: 2.19%

Run 8: Report of TCP Vegas — Data Link

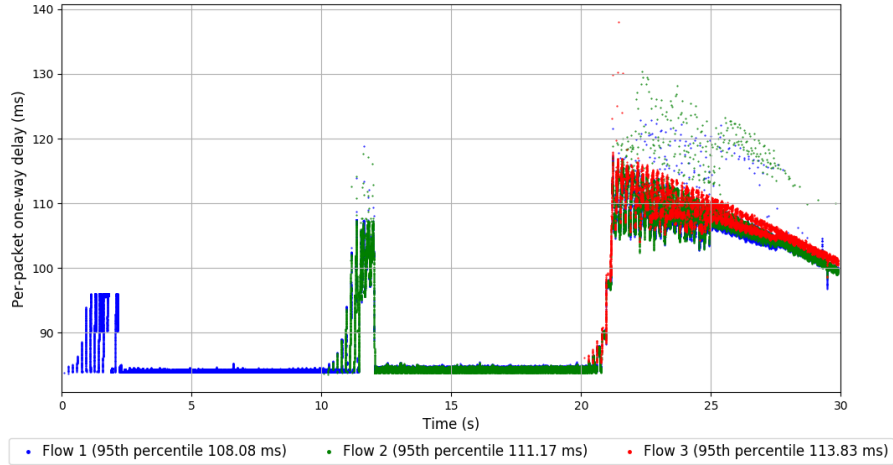
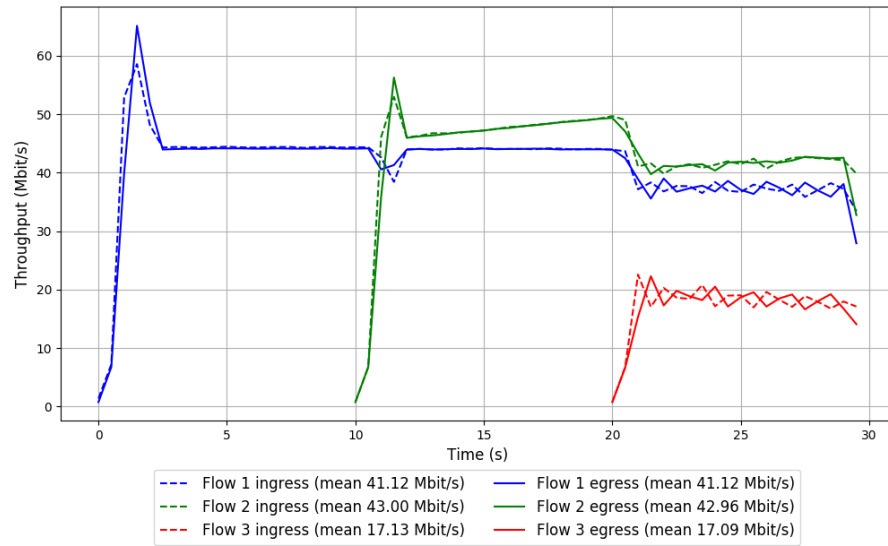


Run 9: Statistics of TCP Vegas

Start at: 2018-03-13 17:30:08
End at: 2018-03-13 17:30:38
Local clock offset: -2.734 ms
Remote clock offset: -4.848 ms

```
# Below is generated by plot.py at 2018-03-13 22:08:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.25 Mbit/s
95th percentile per-packet one-way delay: 110.499 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 41.12 Mbit/s
95th percentile per-packet one-way delay: 108.079 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 42.96 Mbit/s
95th percentile per-packet one-way delay: 111.170 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 17.09 Mbit/s
95th percentile per-packet one-way delay: 113.830 ms
Loss rate: 1.88%
```

Run 9: Report of TCP Vegas — Data Link

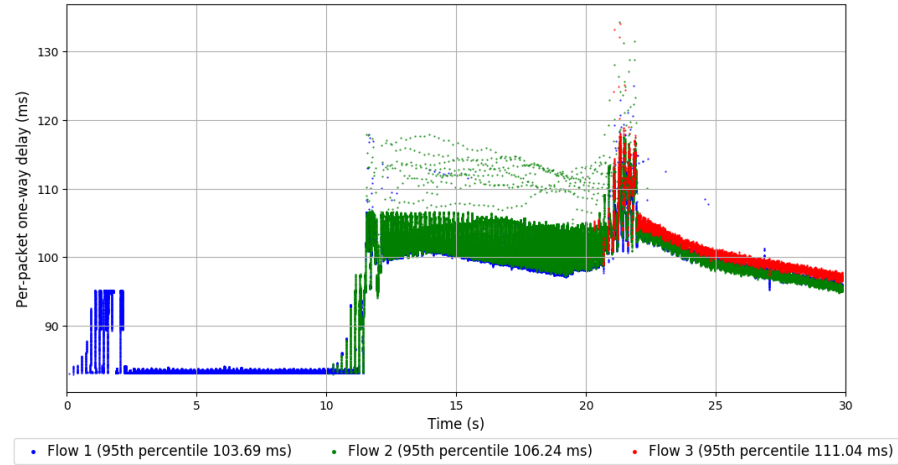
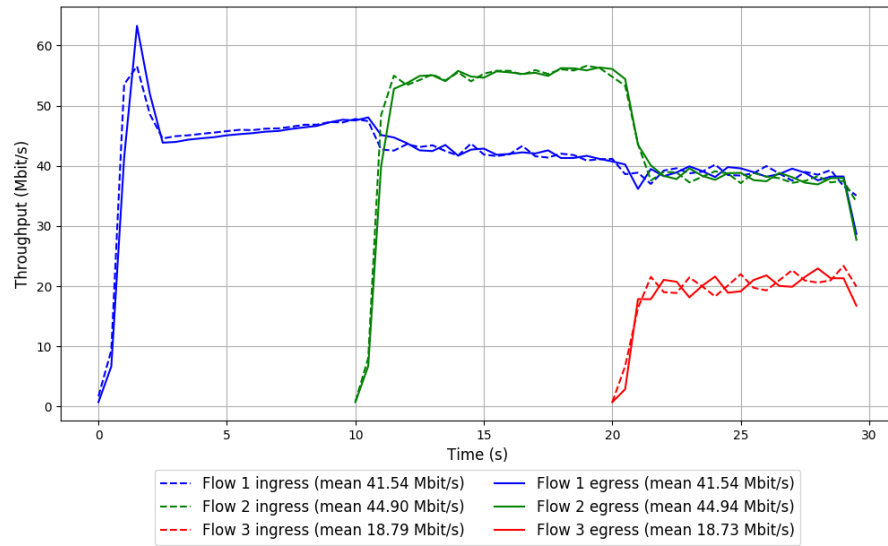


Run 10: Statistics of TCP Vegas

Start at: 2018-03-13 17:53:39
End at: 2018-03-13 17:54:09
Local clock offset: -6.663 ms
Remote clock offset: -4.751 ms

Below is generated by plot.py at 2018-03-13 22:09:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.51 Mbit/s
95th percentile per-packet one-way delay: 105.601 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 41.54 Mbit/s
95th percentile per-packet one-way delay: 103.695 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 44.94 Mbit/s
95th percentile per-packet one-way delay: 106.239 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 18.73 Mbit/s
95th percentile per-packet one-way delay: 111.037 ms
Loss rate: 2.12%

Run 10: Report of TCP Vegas — Data Link

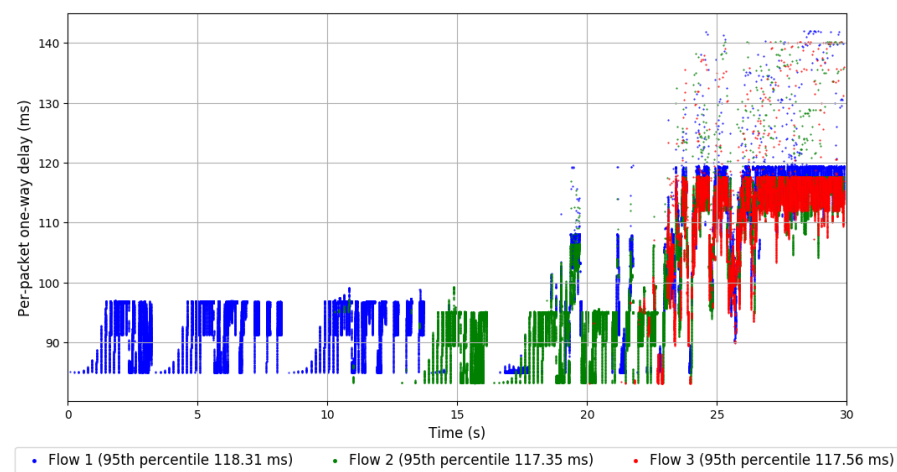
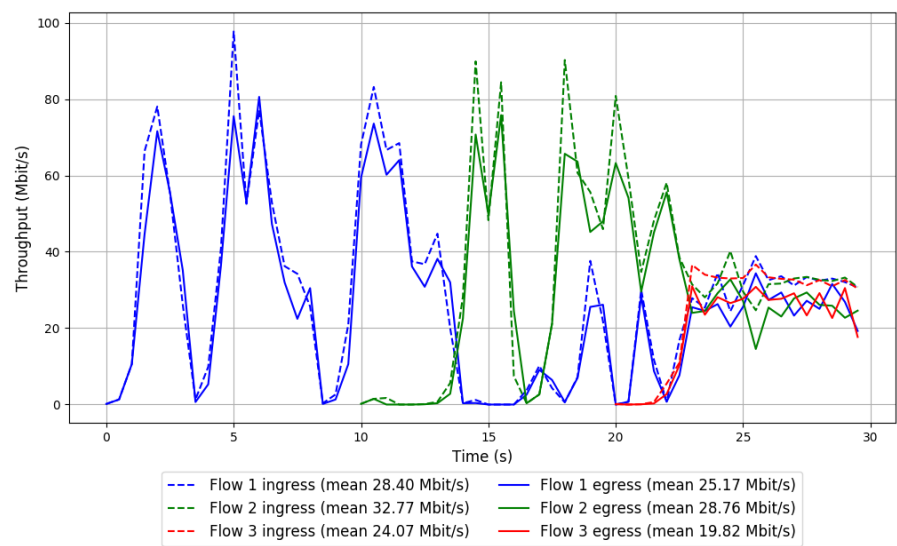


Run 1: Statistics of Verus

Start at: 2018-03-13 14:16:11
End at: 2018-03-13 14:16:41
Local clock offset: -6.183 ms
Remote clock offset: -5.005 ms

Below is generated by plot.py at 2018-03-13 22:09:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 50.77 Mbit/s
95th percentile per-packet one-way delay: 117.552 ms
Loss rate: 13.36%
-- Flow 1:
Average throughput: 25.17 Mbit/s
95th percentile per-packet one-way delay: 118.307 ms
Loss rate: 11.95%
-- Flow 2:
Average throughput: 28.76 Mbit/s
95th percentile per-packet one-way delay: 117.352 ms
Loss rate: 13.08%
-- Flow 3:
Average throughput: 19.82 Mbit/s
95th percentile per-packet one-way delay: 117.560 ms
Loss rate: 19.12%

Run 1: Report of Verus — Data Link

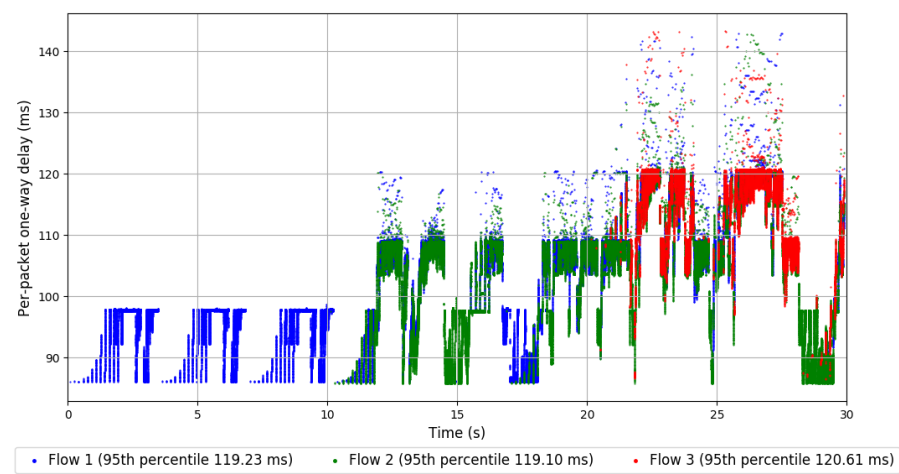
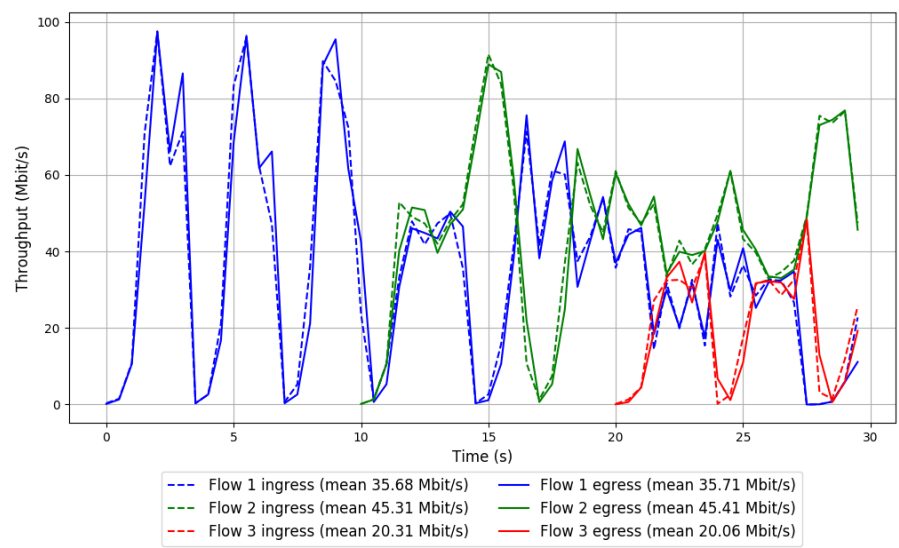


Run 2: Statistics of Verus

Start at: 2018-03-13 14:39:45
End at: 2018-03-13 14:40:15
Local clock offset: -5.637 ms
Remote clock offset: -5.694 ms

Below is generated by plot.py at 2018-03-13 22:09:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.40 Mbit/s
95th percentile per-packet one-way delay: 119.747 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 35.71 Mbit/s
95th percentile per-packet one-way delay: 119.234 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 45.41 Mbit/s
95th percentile per-packet one-way delay: 119.098 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 20.06 Mbit/s
95th percentile per-packet one-way delay: 120.605 ms
Loss rate: 3.28%

Run 2: Report of Verus — Data Link

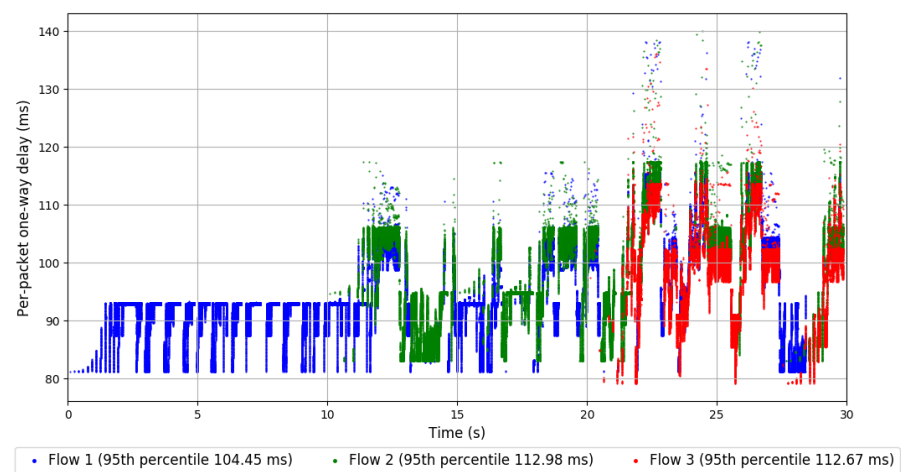
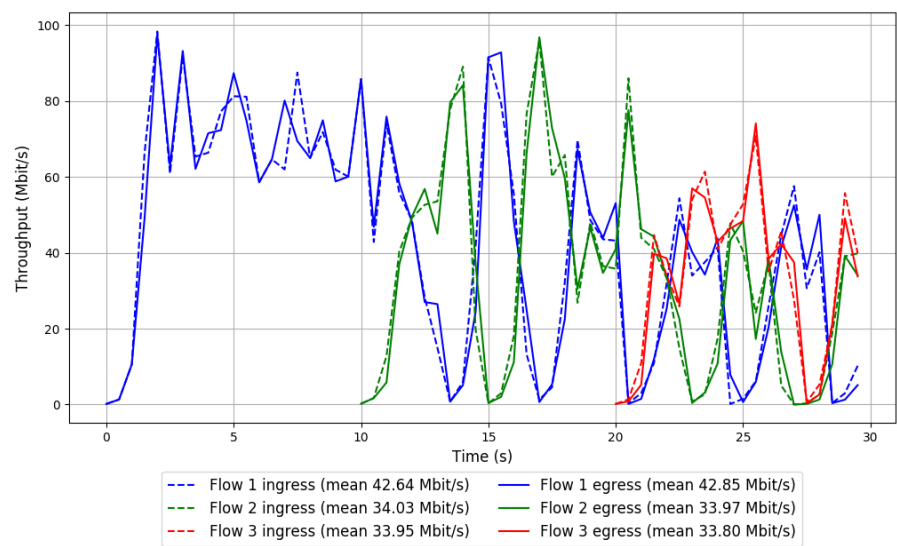


Run 3: Statistics of Verus

Start at: 2018-03-13 15:03:27
End at: 2018-03-13 15:03:57
Local clock offset: -6.246 ms
Remote clock offset: -0.832 ms

Below is generated by plot.py at 2018-03-13 22:09:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.26 Mbit/s
95th percentile per-packet one-way delay: 110.785 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 42.85 Mbit/s
95th percentile per-packet one-way delay: 104.451 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 33.97 Mbit/s
95th percentile per-packet one-way delay: 112.983 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 33.80 Mbit/s
95th percentile per-packet one-way delay: 112.671 ms
Loss rate: 2.29%

Run 3: Report of Verus — Data Link

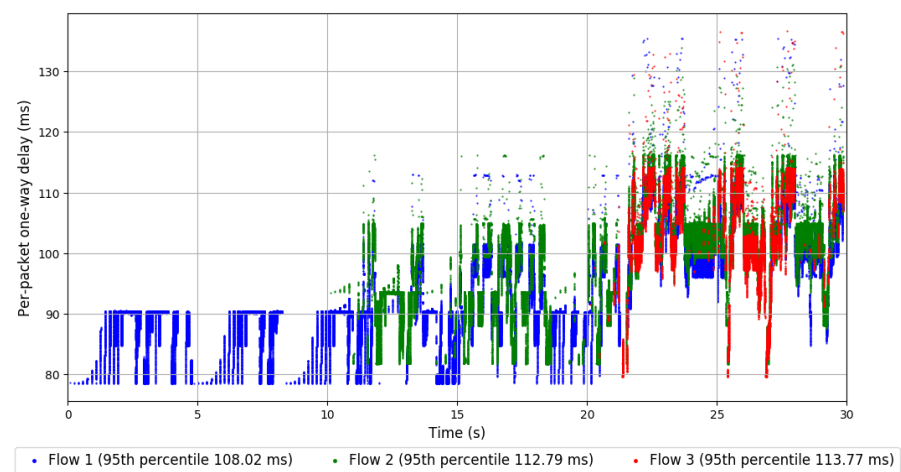
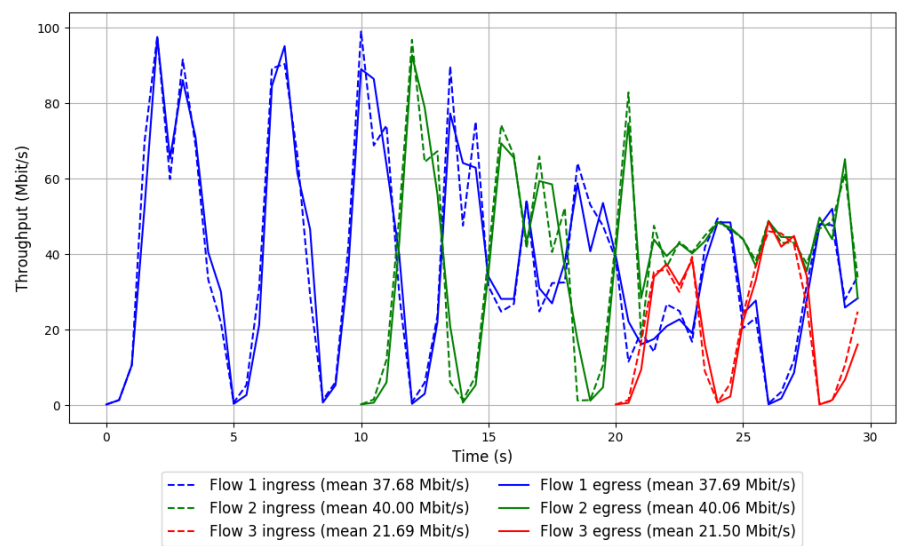


Run 4: Statistics of Verus

Start at: 2018-03-13 15:27:04
End at: 2018-03-13 15:27:34
Local clock offset: -5.958 ms
Remote clock offset: -0.046 ms

Below is generated by plot.py at 2018-03-13 22:09:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 71.31 Mbit/s
95th percentile per-packet one-way delay: 111.461 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 37.69 Mbit/s
95th percentile per-packet one-way delay: 108.018 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 40.06 Mbit/s
95th percentile per-packet one-way delay: 112.789 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 21.50 Mbit/s
95th percentile per-packet one-way delay: 113.765 ms
Loss rate: 2.91%

Run 4: Report of Verus — Data Link

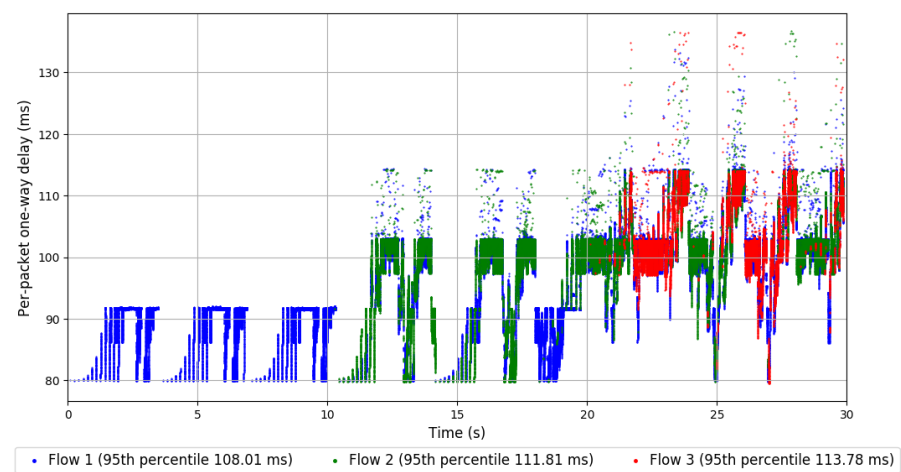
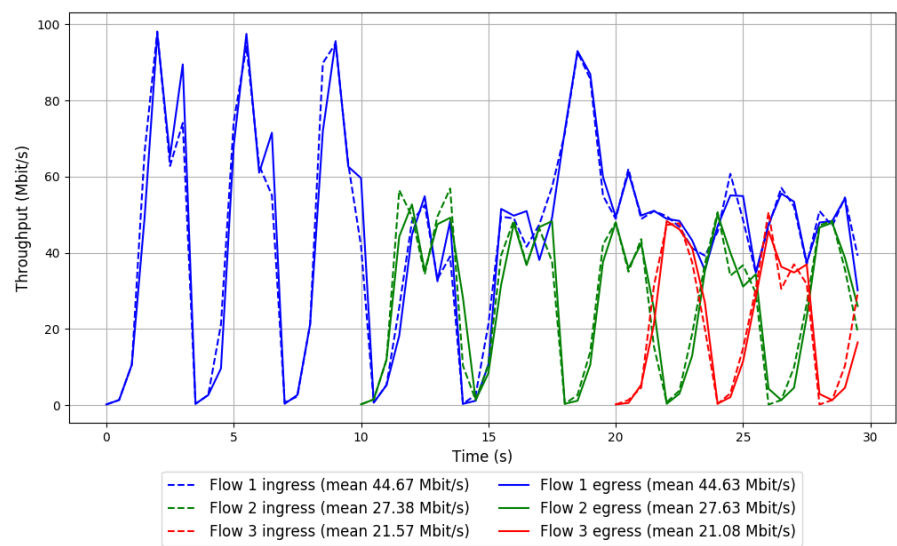


Run 5: Statistics of Verus

Start at: 2018-03-13 15:50:39
End at: 2018-03-13 15:51:09
Local clock offset: -4.98 ms
Remote clock offset: -0.612 ms

Below is generated by plot.py at 2018-03-13 22:10:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.86 Mbit/s
95th percentile per-packet one-way delay: 111.239 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 44.63 Mbit/s
95th percentile per-packet one-way delay: 108.011 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 27.63 Mbit/s
95th percentile per-packet one-way delay: 111.806 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 21.08 Mbit/s
95th percentile per-packet one-way delay: 113.782 ms
Loss rate: 4.36%

Run 5: Report of Verus — Data Link

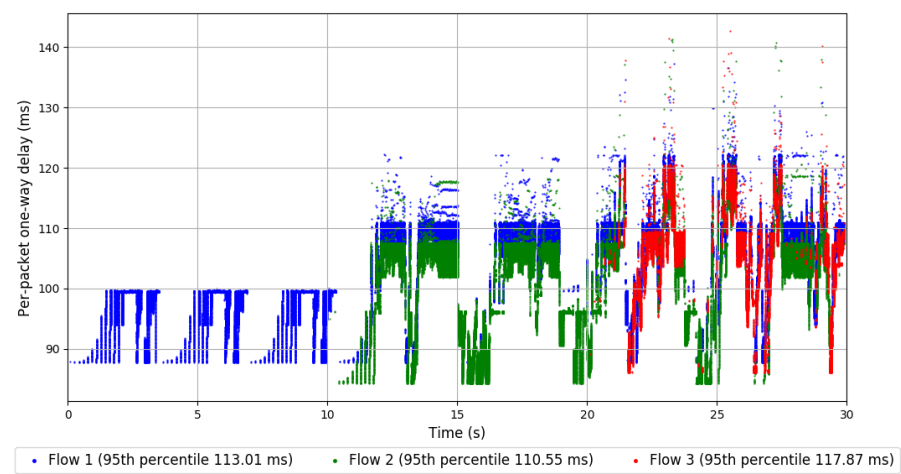
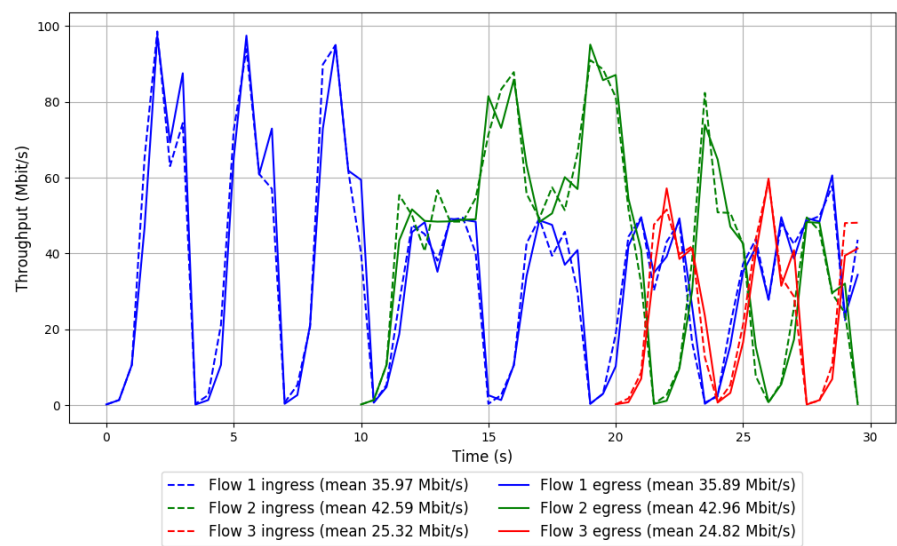


Run 6: Statistics of Verus

Start at: 2018-03-13 16:14:11
End at: 2018-03-13 16:14:41
Local clock offset: -1.805 ms
Remote clock offset: -6.369 ms

Below is generated by plot.py at 2018-03-13 22:10:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.56 Mbit/s
95th percentile per-packet one-way delay: 113.944 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 35.89 Mbit/s
95th percentile per-packet one-way delay: 113.013 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 42.96 Mbit/s
95th percentile per-packet one-way delay: 110.554 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 24.82 Mbit/s
95th percentile per-packet one-way delay: 117.872 ms
Loss rate: 3.79%

Run 6: Report of Verus — Data Link

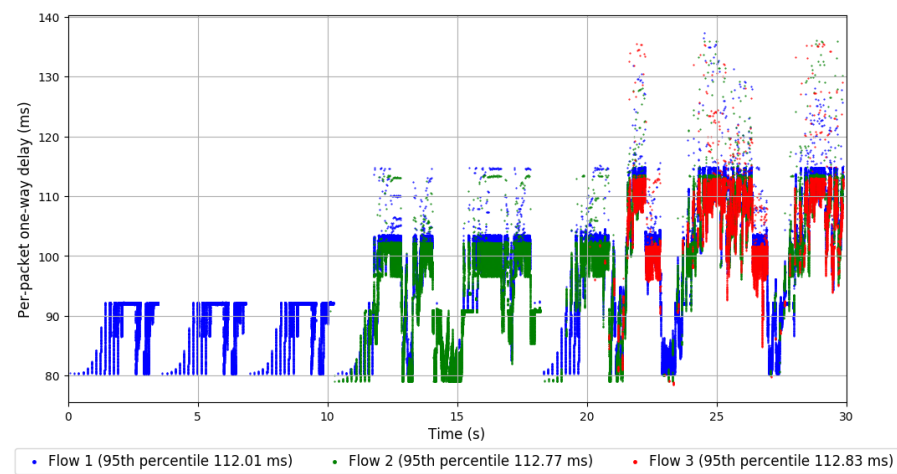
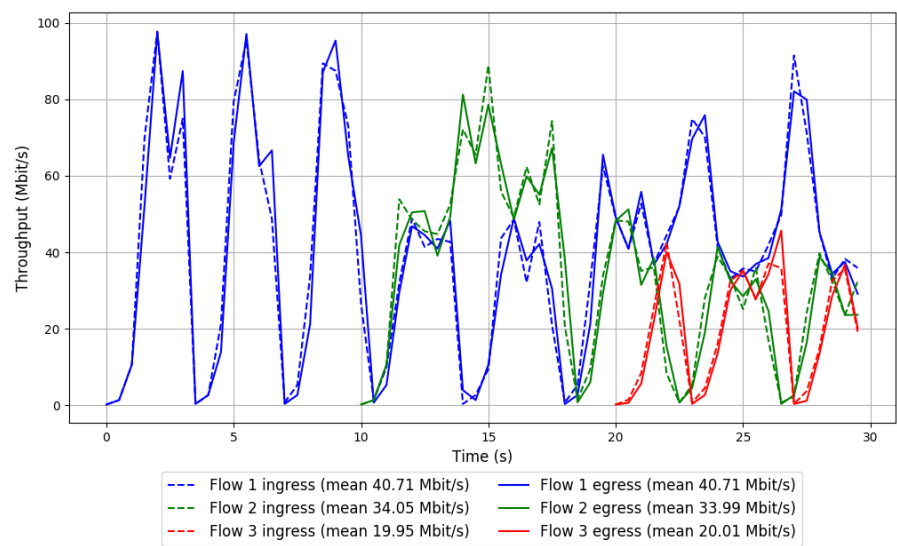


Run 7: Statistics of Verus

Start at: 2018-03-13 16:37:41
End at: 2018-03-13 16:38:11
Local clock offset: -3.035 ms
Remote clock offset: -0.348 ms

Below is generated by plot.py at 2018-03-13 22:10:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.79 Mbit/s
95th percentile per-packet one-way delay: 112.711 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 40.71 Mbit/s
95th percentile per-packet one-way delay: 112.014 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 33.99 Mbit/s
95th percentile per-packet one-way delay: 112.767 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 20.01 Mbit/s
95th percentile per-packet one-way delay: 112.825 ms
Loss rate: 1.47%

Run 7: Report of Verus — Data Link

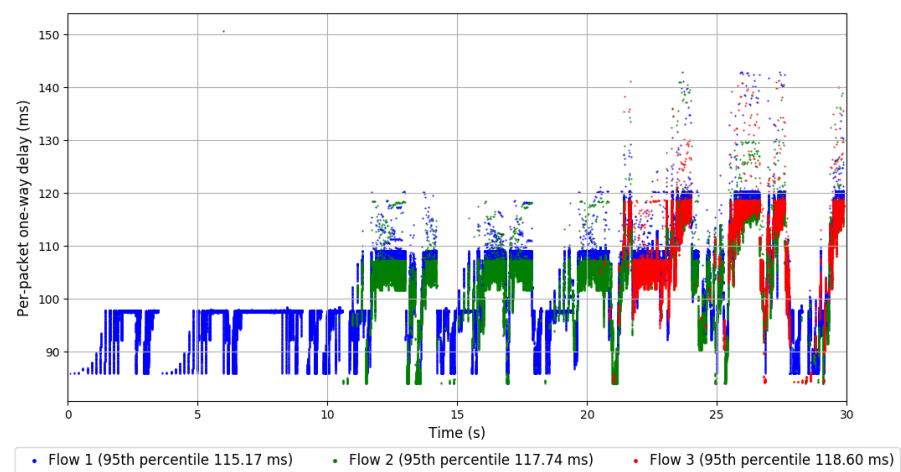
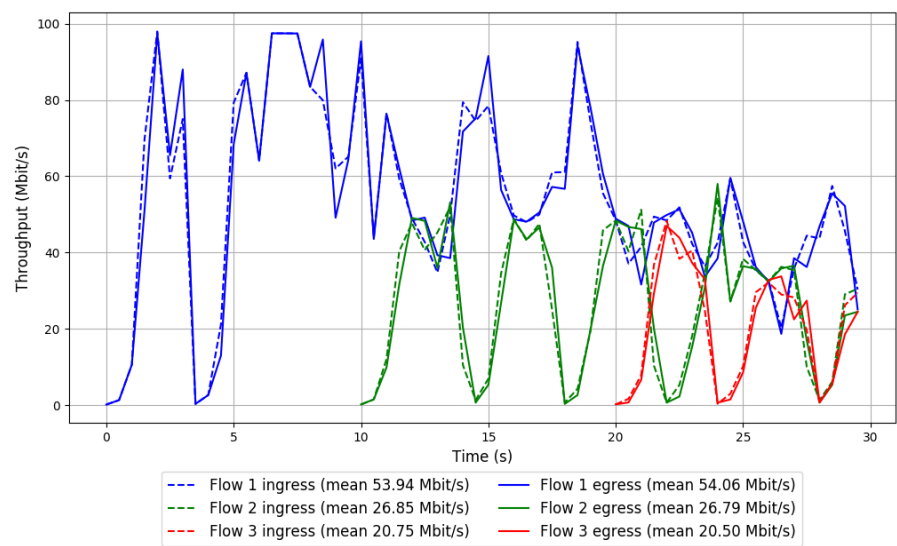


Run 8: Statistics of Verus

Start at: 2018-03-13 17:01:10
End at: 2018-03-13 17:01:40
Local clock offset: -3.05 ms
Remote clock offset: -5.595 ms

Below is generated by plot.py at 2018-03-13 22:10:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.55 Mbit/s
95th percentile per-packet one-way delay: 117.604 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 54.06 Mbit/s
95th percentile per-packet one-way delay: 115.172 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 26.79 Mbit/s
95th percentile per-packet one-way delay: 117.744 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 20.50 Mbit/s
95th percentile per-packet one-way delay: 118.597 ms
Loss rate: 3.06%

Run 8: Report of Verus — Data Link

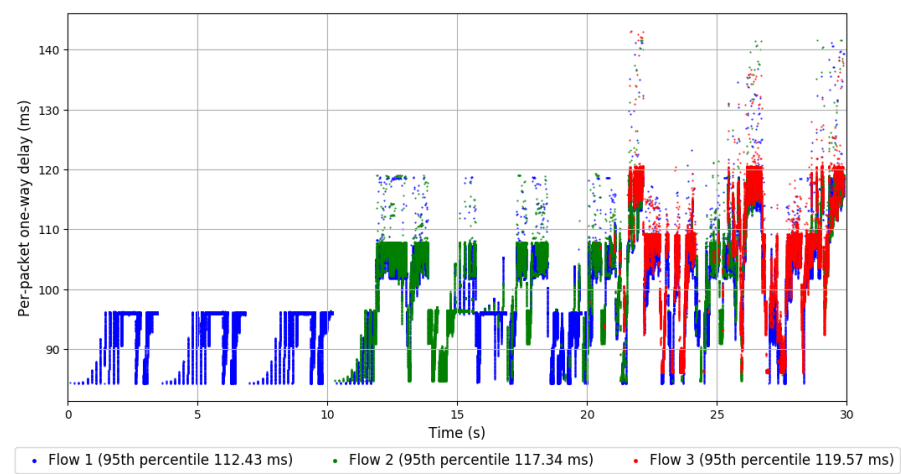
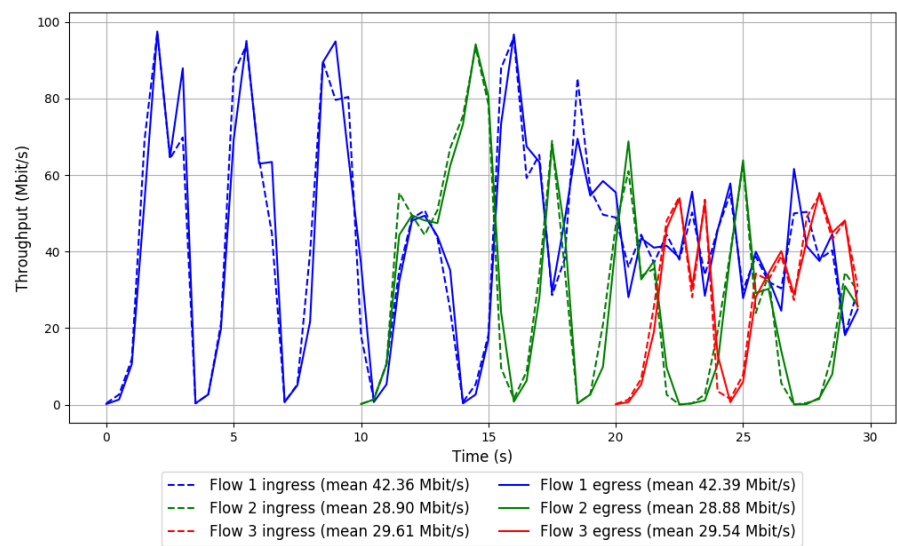


Run 9: Statistics of Verus

Start at: 2018-03-13 17:24:43
End at: 2018-03-13 17:25:13
Local clock offset: -2.75 ms
Remote clock offset: -5.611 ms

```
# Below is generated by plot.py at 2018-03-13 22:10:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.21 Mbit/s
95th percentile per-packet one-way delay: 116.525 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 42.39 Mbit/s
95th percentile per-packet one-way delay: 112.431 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 28.88 Mbit/s
95th percentile per-packet one-way delay: 117.336 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 29.54 Mbit/s
95th percentile per-packet one-way delay: 119.567 ms
Loss rate: 2.25%
```


Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-03-13 17:48:23

End at: 2018-03-13 17:48:53

Local clock offset: -5.937 ms

Remote clock offset: 0.035 ms

Below is generated by plot.py at 2018-03-13 22:10:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.27 Mbit/s

95th percentile per-packet one-way delay: 111.820 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 35.48 Mbit/s

95th percentile per-packet one-way delay: 108.290 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 30.85 Mbit/s

95th percentile per-packet one-way delay: 112.916 ms

Loss rate: 1.40%

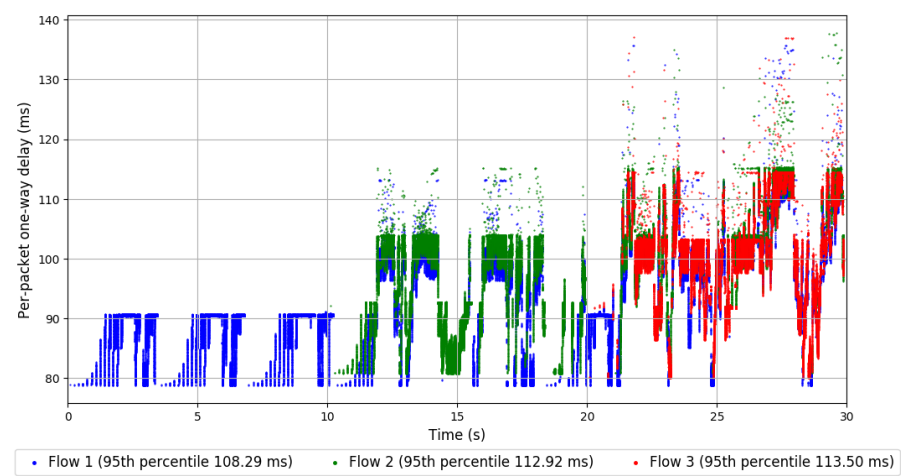
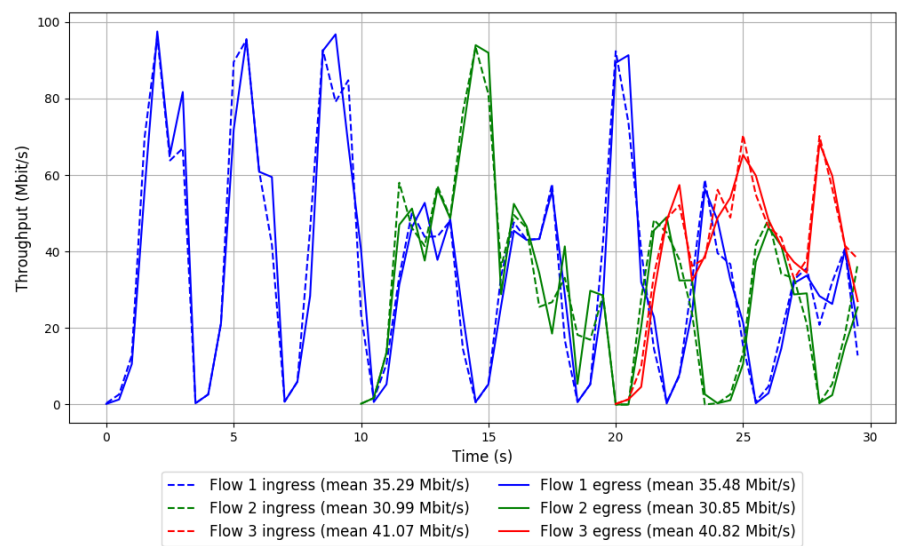
-- Flow 3:

Average throughput: 40.82 Mbit/s

95th percentile per-packet one-way delay: 113.496 ms

Loss rate: 2.39%

Run 10: Report of Verus — Data Link

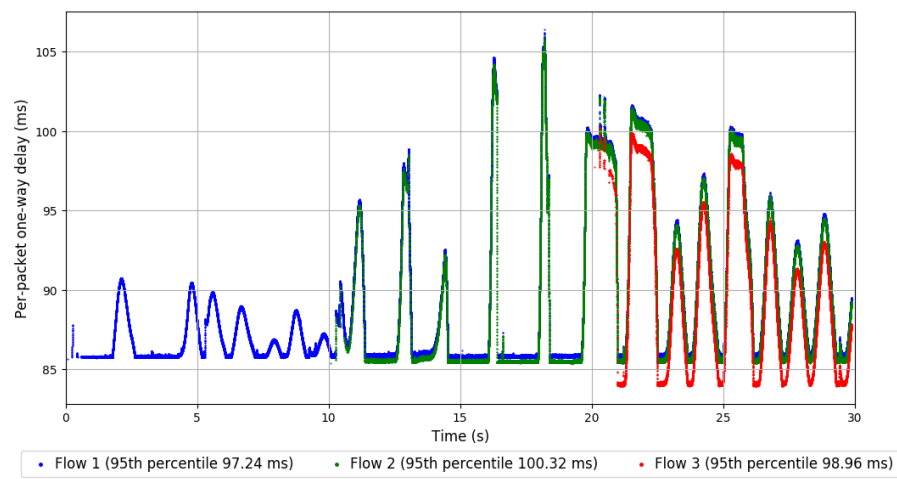
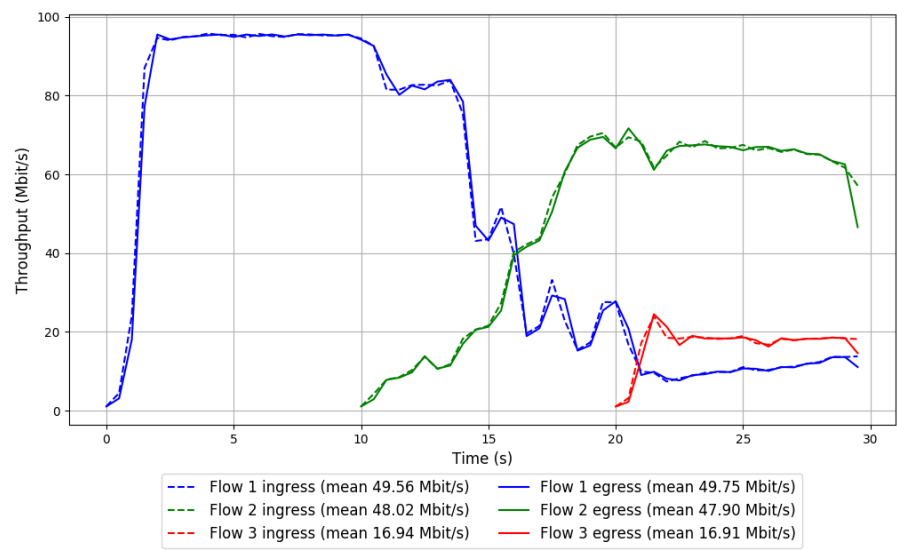


Run 1: Statistics of Copa

Start at: 2018-03-13 14:12:16
End at: 2018-03-13 14:12:46
Local clock offset: -6.32 ms
Remote clock offset: -5.873 ms

Below is generated by plot.py at 2018-03-13 22:12:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.11 Mbit/s
95th percentile per-packet one-way delay: 99.579 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 49.75 Mbit/s
95th percentile per-packet one-way delay: 97.240 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 47.90 Mbit/s
95th percentile per-packet one-way delay: 100.316 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 16.91 Mbit/s
95th percentile per-packet one-way delay: 98.957 ms
Loss rate: 2.01%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-03-13 14:35:48

End at: 2018-03-13 14:36:18

Local clock offset: -5.657 ms

Remote clock offset: -0.88 ms

Below is generated by plot.py at 2018-03-13 22:12:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.84 Mbit/s

95th percentile per-packet one-way delay: 89.578 ms

Loss rate: 15.88%

-- Flow 1:

Average throughput: 61.09 Mbit/s

95th percentile per-packet one-way delay: 88.923 ms

Loss rate: 15.43%

-- Flow 2:

Average throughput: 14.20 Mbit/s

95th percentile per-packet one-way delay: 92.728 ms

Loss rate: 17.38%

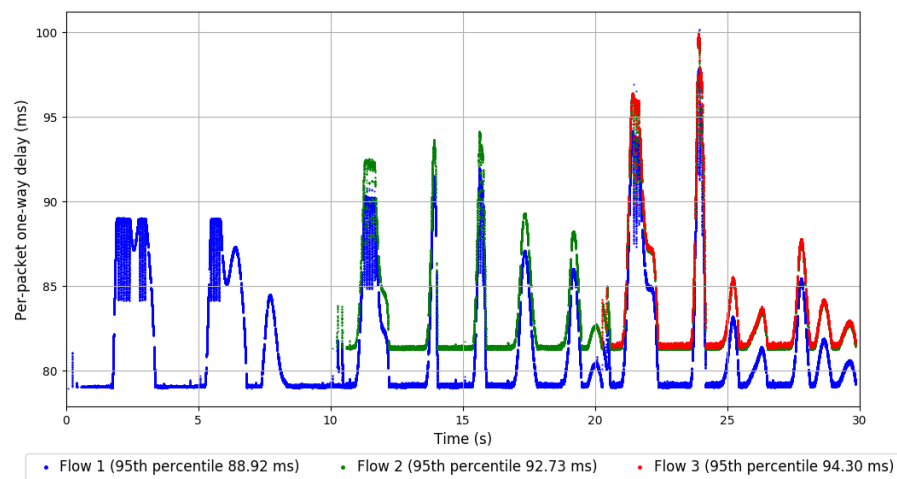
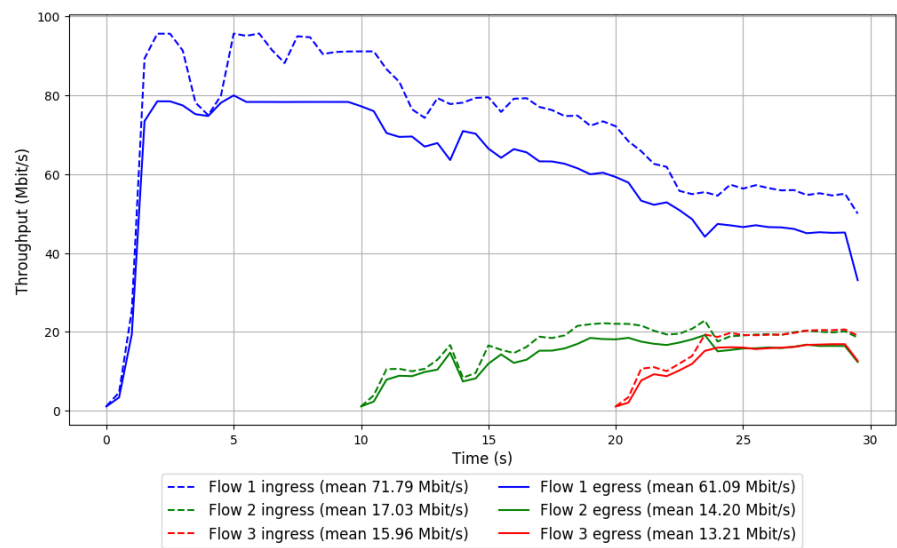
-- Flow 3:

Average throughput: 13.21 Mbit/s

95th percentile per-packet one-way delay: 94.303 ms

Loss rate: 18.77%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-03-13 14:59:25

End at: 2018-03-13 14:59:55

Local clock offset: -6.201 ms

Remote clock offset: 0.204 ms

Below is generated by plot.py at 2018-03-13 22:12:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.67 Mbit/s

95th percentile per-packet one-way delay: 90.123 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 73.97 Mbit/s

95th percentile per-packet one-way delay: 89.360 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 19.40 Mbit/s

95th percentile per-packet one-way delay: 94.868 ms

Loss rate: 1.03%

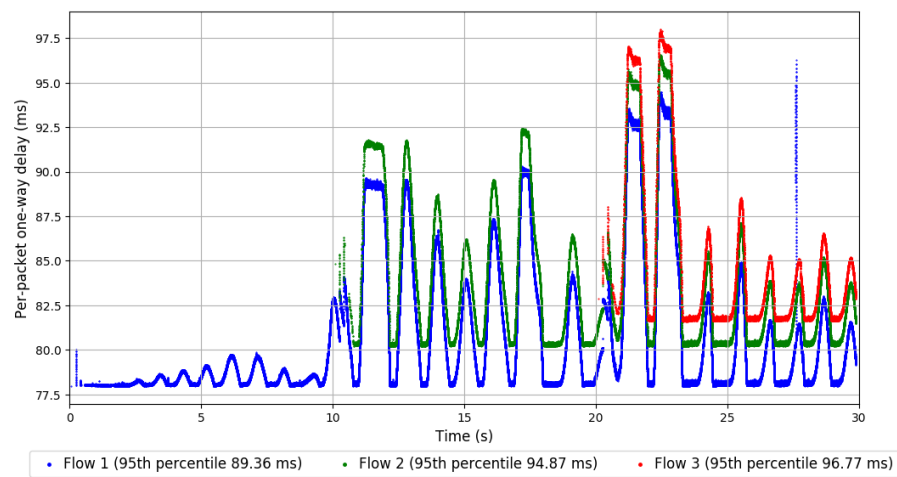
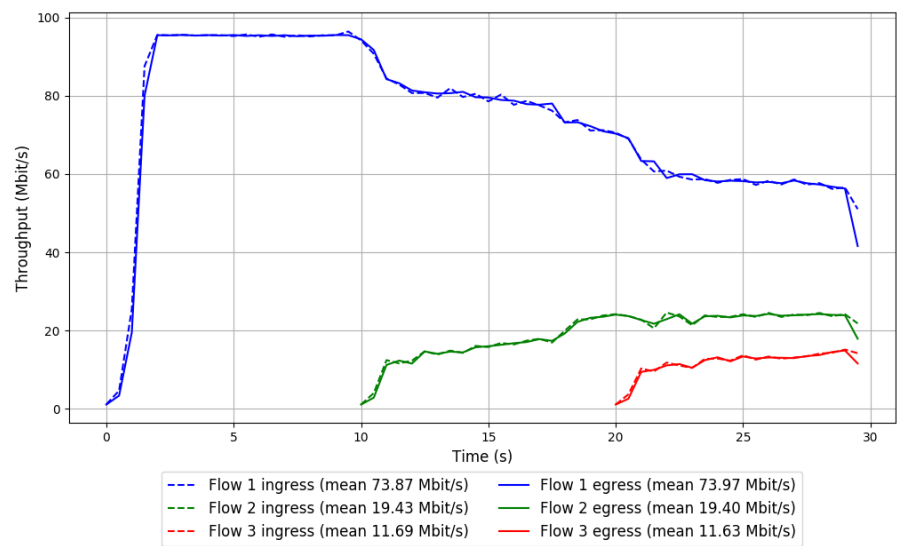
-- Flow 3:

Average throughput: 11.63 Mbit/s

95th percentile per-packet one-way delay: 96.766 ms

Loss rate: 2.24%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-03-13 15:23:07

End at: 2018-03-13 15:23:37

Local clock offset: -6.035 ms

Remote clock offset: 0.126 ms

Below is generated by plot.py at 2018-03-13 22:12:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.97 Mbit/s

95th percentile per-packet one-way delay: 94.995 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 73.96 Mbit/s

95th percentile per-packet one-way delay: 95.039 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 19.62 Mbit/s

95th percentile per-packet one-way delay: 93.797 ms

Loss rate: 0.90%

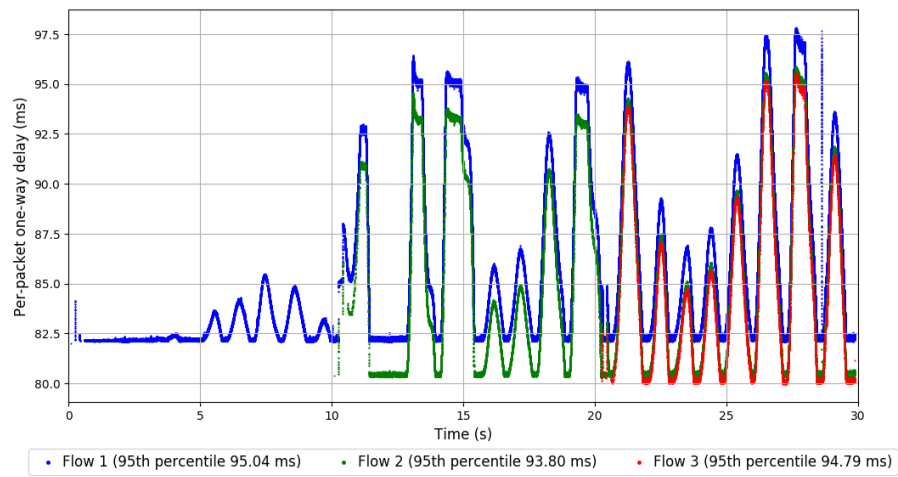
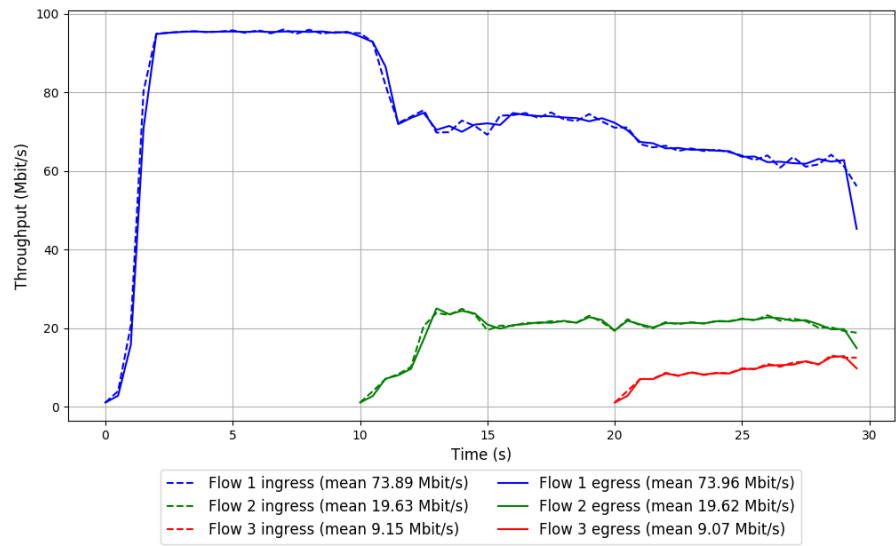
-- Flow 3:

Average throughput: 9.07 Mbit/s

95th percentile per-packet one-way delay: 94.789 ms

Loss rate: 2.59%

Run 4: Report of Copa — Data Link

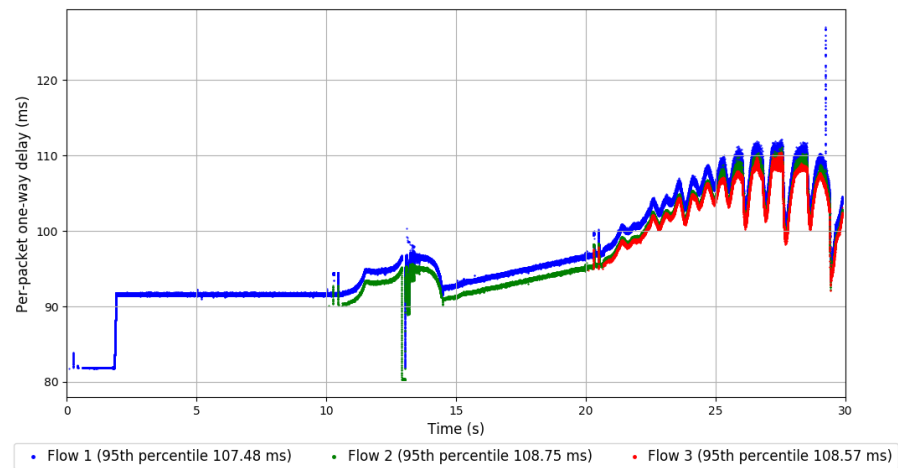
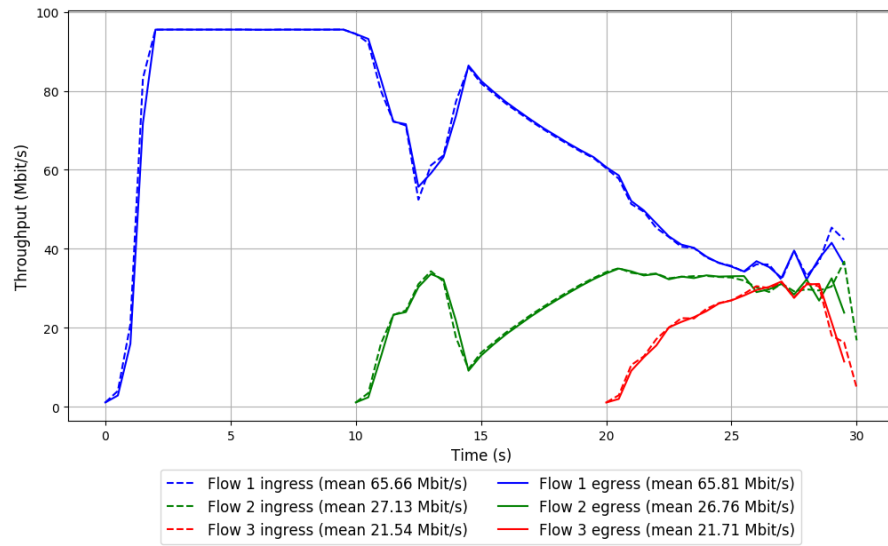


Run 5: Statistics of Copa

Start at: 2018-03-13 15:46:41
End at: 2018-03-13 15:47:11
Local clock offset: -5.728 ms
Remote clock offset: -0.744 ms

Below is generated by plot.py at 2018-03-13 22:12:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.69 Mbit/s
95th percentile per-packet one-way delay: 108.380 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 65.81 Mbit/s
95th percentile per-packet one-way delay: 107.481 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 26.76 Mbit/s
95th percentile per-packet one-way delay: 108.747 ms
Loss rate: 3.19%
-- Flow 3:
Average throughput: 21.71 Mbit/s
95th percentile per-packet one-way delay: 108.572 ms
Loss rate: 2.83%

Run 5: Report of Copa — Data Link

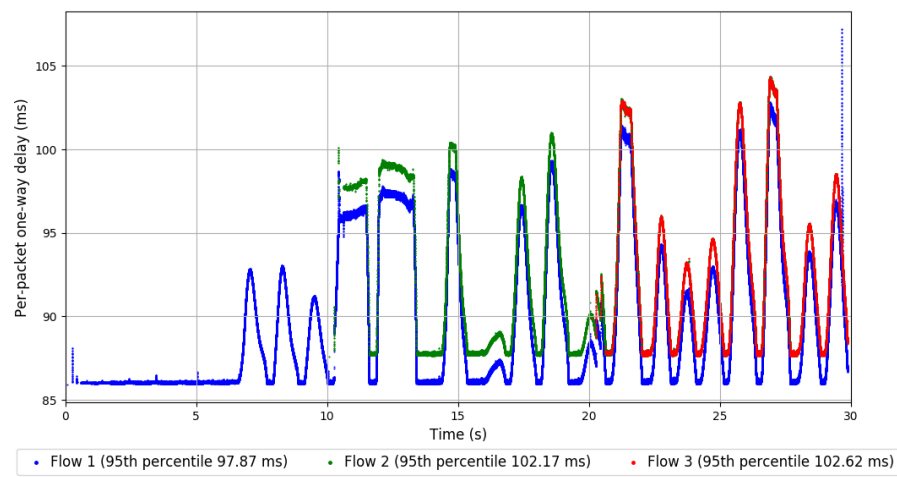
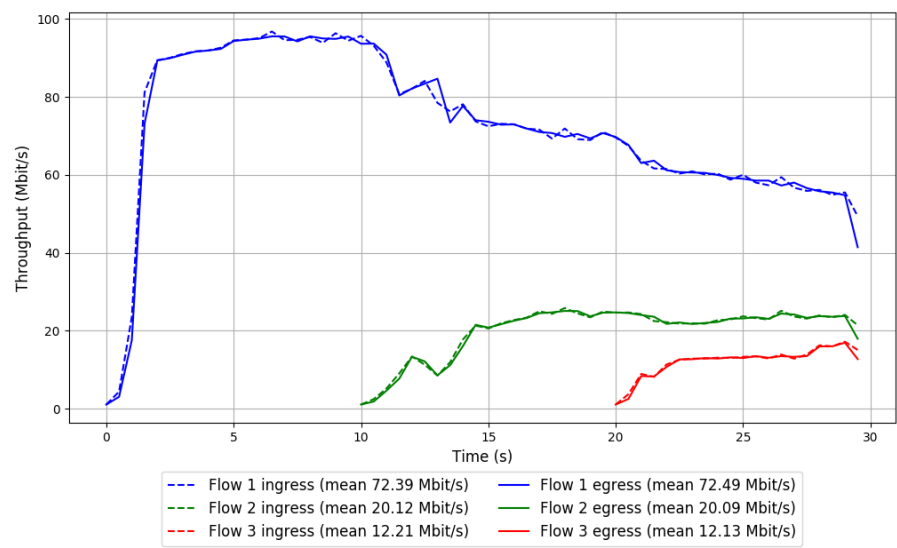


Run 6: Statistics of Copa

Start at: 2018-03-13 16:10:14
End at: 2018-03-13 16:10:44
Local clock offset: -2.118 ms
Remote clock offset: -6.381 ms

Below is generated by plot.py at 2018-03-13 22:12:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.81 Mbit/s
95th percentile per-packet one-way delay: 99.030 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 72.49 Mbit/s
95th percentile per-packet one-way delay: 97.867 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 20.09 Mbit/s
95th percentile per-packet one-way delay: 102.168 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 12.13 Mbit/s
95th percentile per-packet one-way delay: 102.620 ms
Loss rate: 2.30%

Run 6: Report of Copa — Data Link

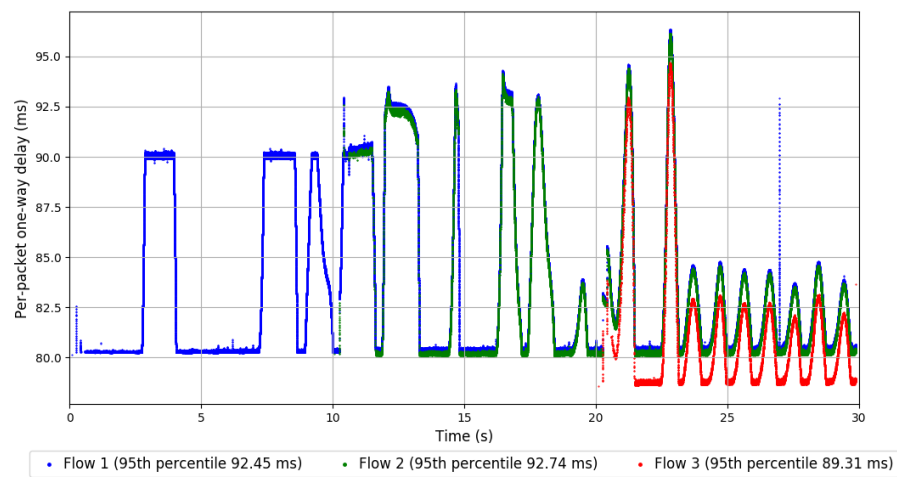
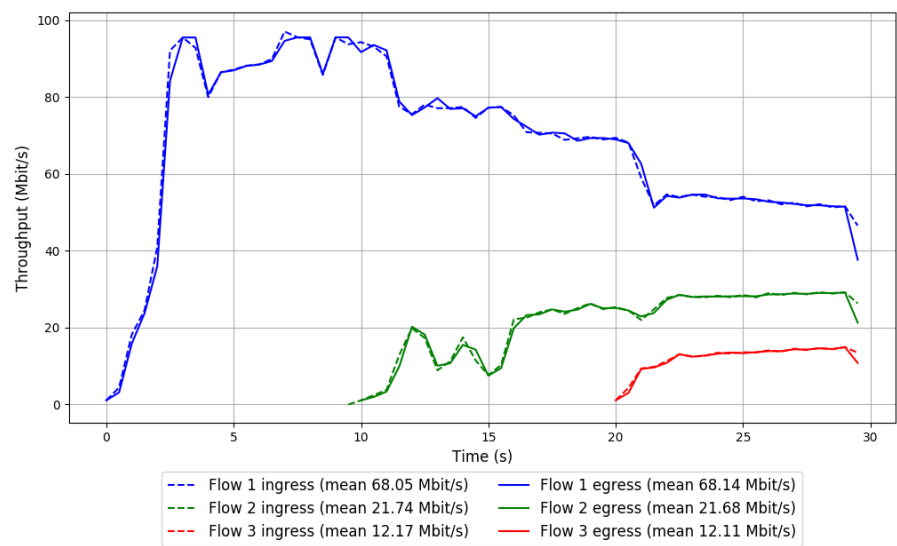


Run 7: Statistics of Copa

Start at: 2018-03-13 16:33:45
End at: 2018-03-13 16:34:15
Local clock offset: -2.893 ms
Remote clock offset: -0.665 ms

Below is generated by plot.py at 2018-03-13 22:12:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.51 Mbit/s
95th percentile per-packet one-way delay: 92.463 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 68.14 Mbit/s
95th percentile per-packet one-way delay: 92.454 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 21.68 Mbit/s
95th percentile per-packet one-way delay: 92.742 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 12.11 Mbit/s
95th percentile per-packet one-way delay: 89.312 ms
Loss rate: 2.07%

Run 7: Report of Copa — Data Link

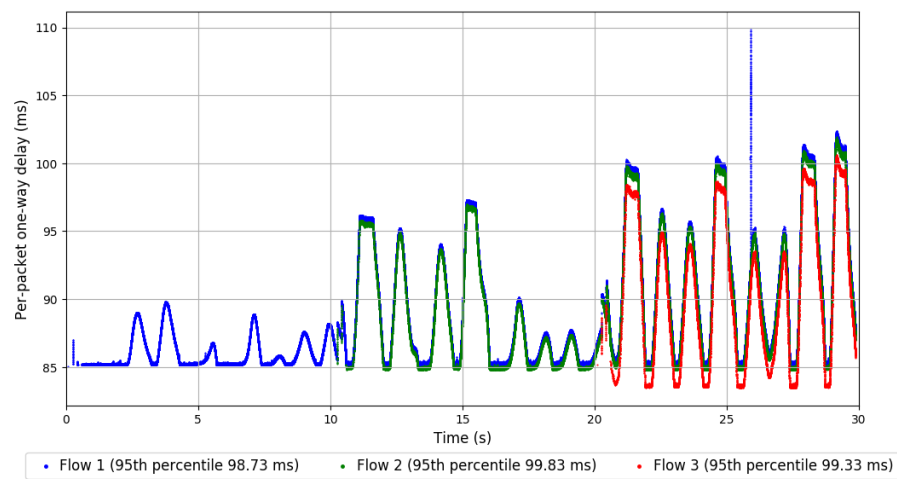
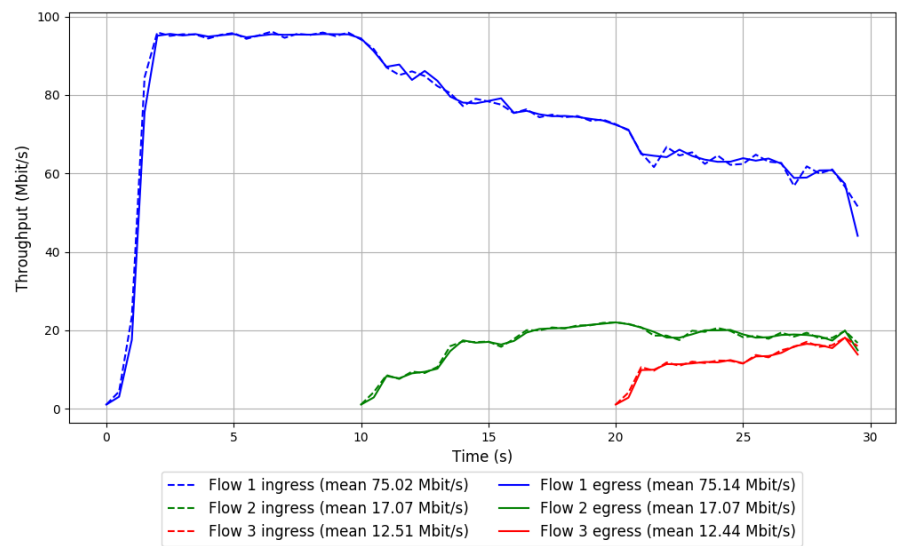


Run 8: Statistics of Copa

Start at: 2018-03-13 16:57:14
End at: 2018-03-13 16:57:44
Local clock offset: -3.209 ms
Remote clock offset: -4.816 ms

Below is generated by plot.py at 2018-03-13 22:12:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.55 Mbit/s
95th percentile per-packet one-way delay: 99.336 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 75.14 Mbit/s
95th percentile per-packet one-way delay: 98.735 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 17.07 Mbit/s
95th percentile per-packet one-way delay: 99.826 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 12.44 Mbit/s
95th percentile per-packet one-way delay: 99.333 ms
Loss rate: 2.27%

Run 8: Report of Copa — Data Link

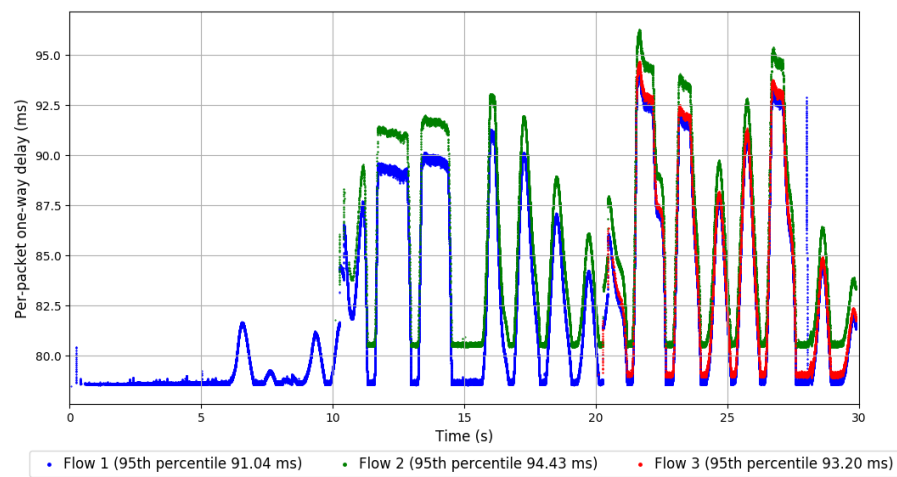
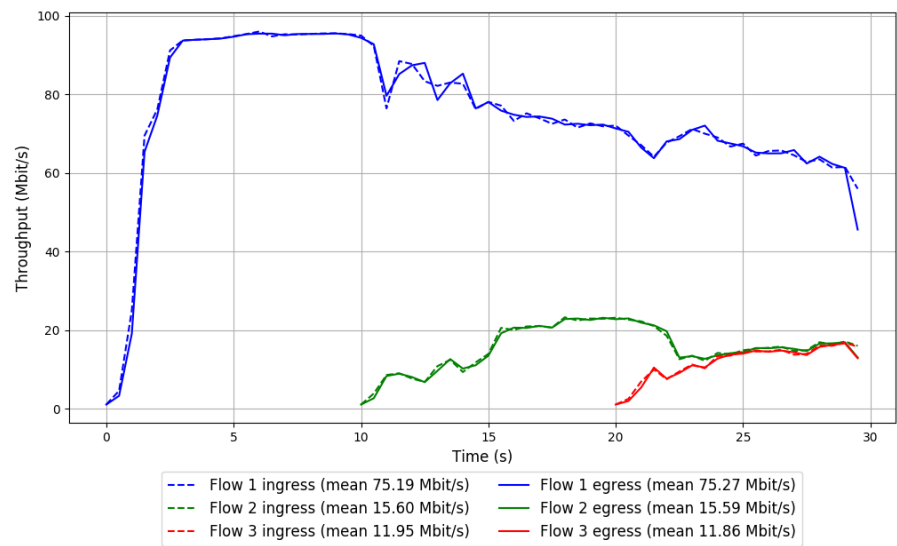


Run 9: Statistics of Copa

Start at: 2018-03-13 17:20:46
End at: 2018-03-13 17:21:16
Local clock offset: -2.789 ms
Remote clock offset: -0.073 ms

```
# Below is generated by plot.py at 2018-03-13 22:14:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.51 Mbit/s
95th percentile per-packet one-way delay: 91.866 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 75.27 Mbit/s
95th percentile per-packet one-way delay: 91.042 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 15.59 Mbit/s
95th percentile per-packet one-way delay: 94.429 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 11.86 Mbit/s
95th percentile per-packet one-way delay: 93.204 ms
Loss rate: 2.38%
```

Run 9: Report of Copa — Data Link

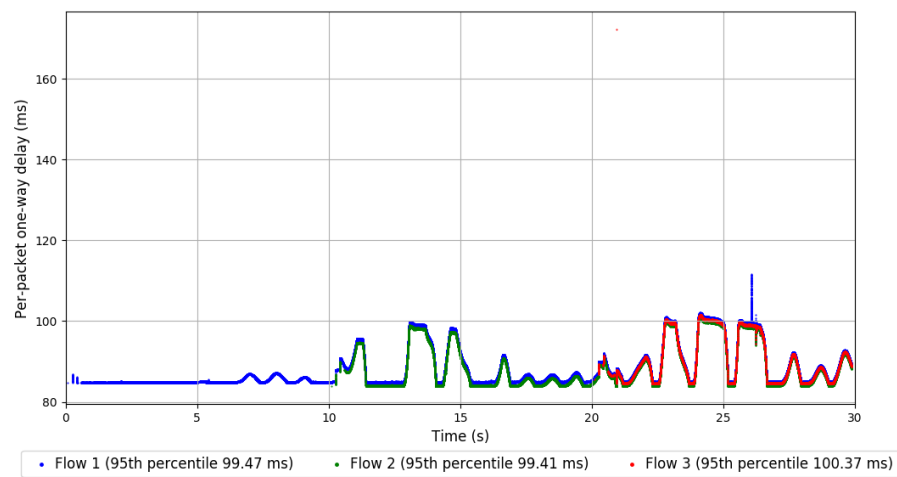
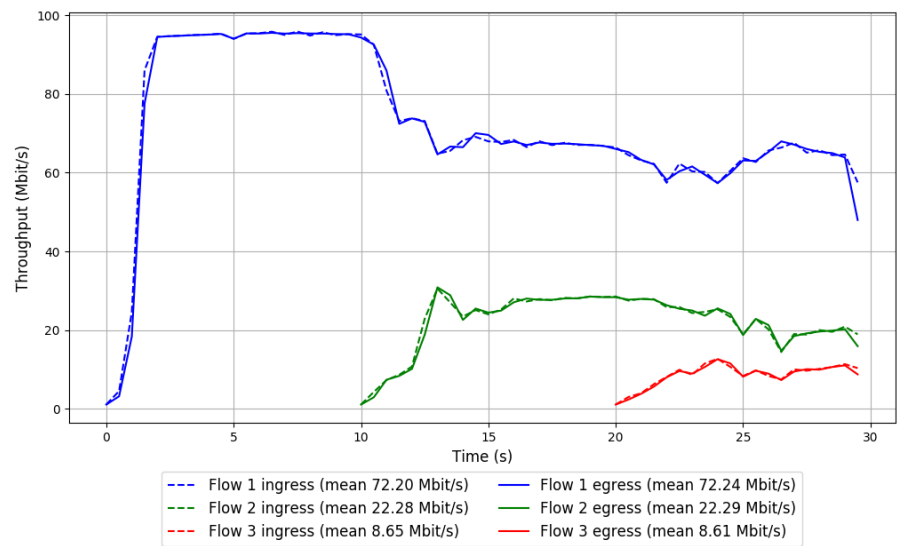


Run 10: Statistics of Copa

Start at: 2018-03-13 17:44:27
End at: 2018-03-13 17:44:57
Local clock offset: -5.588 ms
Remote clock offset: -5.633 ms

Below is generated by plot.py at 2018-03-13 22:14:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.87 Mbit/s
95th percentile per-packet one-way delay: 99.542 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 72.24 Mbit/s
95th percentile per-packet one-way delay: 99.473 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 22.29 Mbit/s
95th percentile per-packet one-way delay: 99.409 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 8.61 Mbit/s
95th percentile per-packet one-way delay: 100.373 ms
Loss rate: 2.16%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-03-13 14:20:06

End at: 2018-03-13 14:20:36

Local clock offset: -5.975 ms

Remote clock offset: -0.031 ms

Run 1: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of FillP

Start at: 2018-03-13 14:43:43

End at: 2018-03-13 14:44:13

Local clock offset: -5.921 ms

Remote clock offset: 0.22 ms

Run 2: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of FillP

Start at: 2018-03-13 15:07:26

End at: 2018-03-13 15:07:56

Local clock offset: -6.34 ms

Remote clock offset: -4.805 ms

Run 3: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of FillP

Start at: 2018-03-13 15:31:02

End at: 2018-03-13 15:31:32

Local clock offset: -5.831 ms

Remote clock offset: -5.209 ms

Run 4: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of FillP

Start at: 2018-03-13 15:54:35

End at: 2018-03-13 15:55:05

Local clock offset: -3.988 ms

Remote clock offset: -0.649 ms

Run 5: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of FillP

Start at: 2018-03-13 16:18:07

End at: 2018-03-13 16:18:37

Local clock offset: -1.648 ms

Remote clock offset: -5.626 ms

Run 6: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of FillP

Start at: 2018-03-13 16:41:38

End at: 2018-03-13 16:42:08

Local clock offset: -3.138 ms

Remote clock offset: -0.158 ms

Run 7: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of FillP

Start at: 2018-03-13 17:05:08

End at: 2018-03-13 17:05:38

Local clock offset: -3.033 ms

Remote clock offset: 0.199 ms

Run 8: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of FillP

Start at: 2018-03-13 17:28:39

End at: 2018-03-13 17:29:09

Local clock offset: -2.693 ms

Remote clock offset: 0.182 ms

Below is generated by plot.py at 2018-03-13 22:14:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.60 Mbit/s

95th percentile per-packet one-way delay: 108.182 ms

Loss rate: 3.80%

-- Flow 1:

Average throughput: 59.02 Mbit/s

95th percentile per-packet one-way delay: 105.942 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 40.00 Mbit/s

95th percentile per-packet one-way delay: 108.063 ms

Loss rate: 6.94%

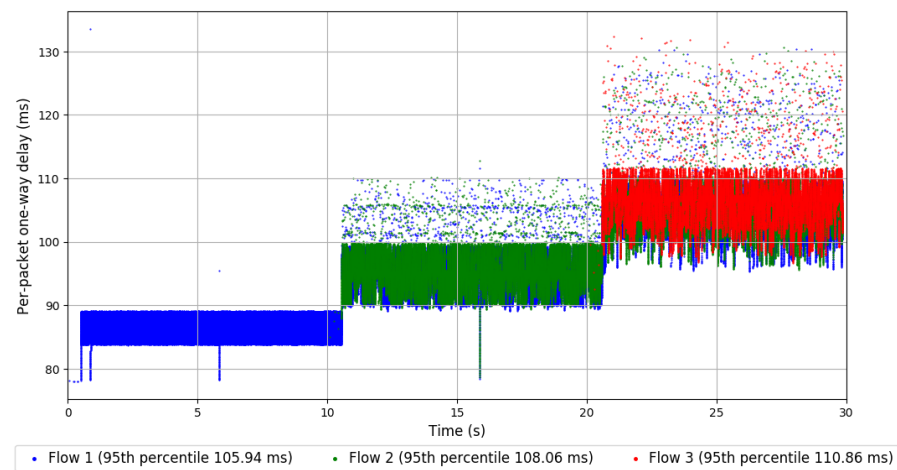
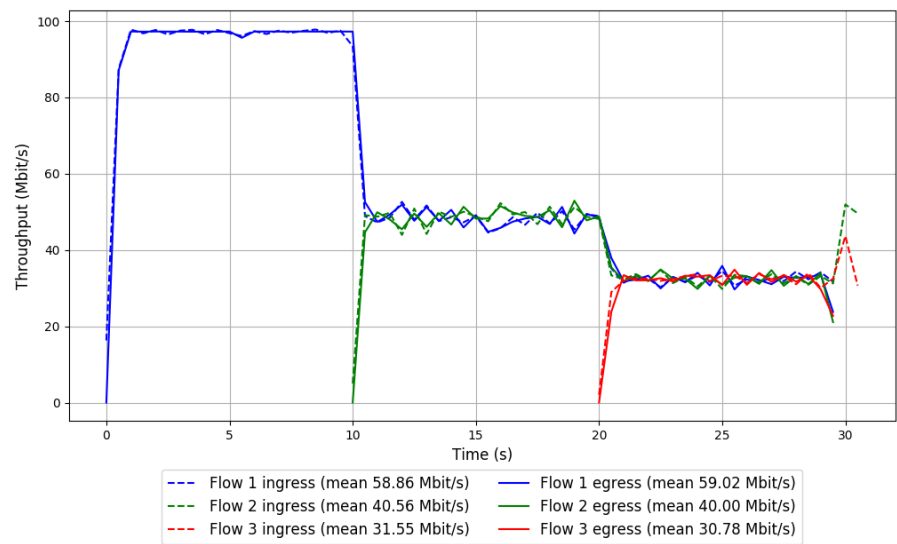
-- Flow 3:

Average throughput: 30.78 Mbit/s

95th percentile per-packet one-way delay: 110.861 ms

Loss rate: 13.24%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-03-13 17:52:19

End at: 2018-03-13 17:52:49

Local clock offset: -6.252 ms

Remote clock offset: -0.004 ms

Run 10: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of Indigo-1-32

Start at: 2018-03-13 14:09:40

End at: 2018-03-13 14:10:10

Local clock offset: -6.605 ms

Remote clock offset: 0.63 ms

Below is generated by plot.py at 2018-03-13 22:14:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.07 Mbit/s

95th percentile per-packet one-way delay: 108.593 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 63.76 Mbit/s

95th percentile per-packet one-way delay: 106.481 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 33.04 Mbit/s

95th percentile per-packet one-way delay: 109.319 ms

Loss rate: 0.71%

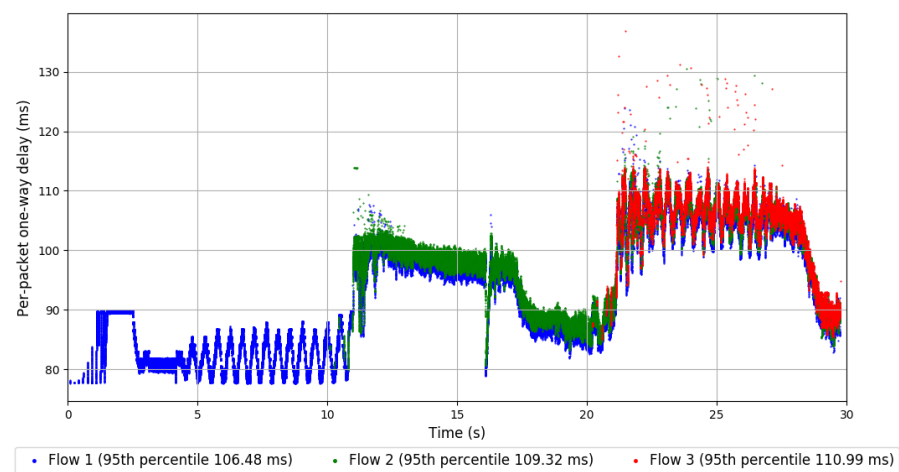
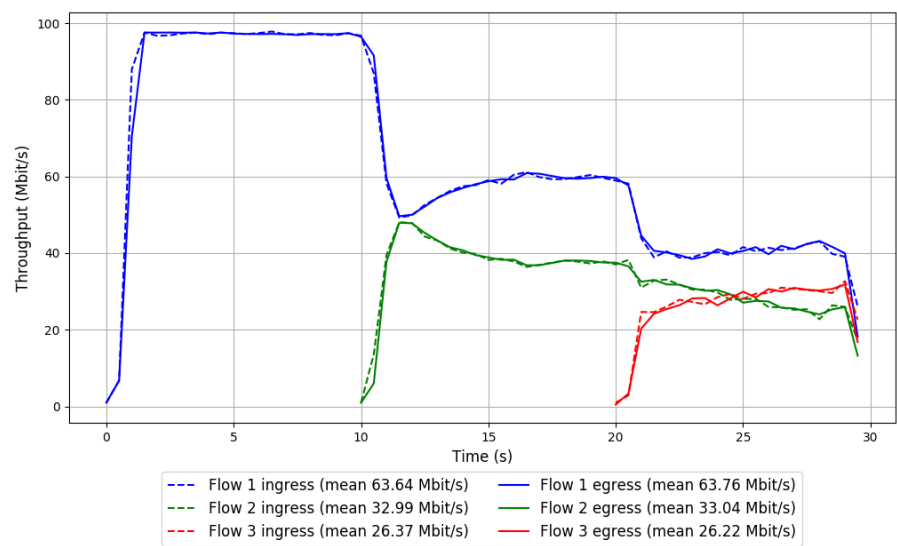
-- Flow 3:

Average throughput: 26.22 Mbit/s

95th percentile per-packet one-way delay: 110.993 ms

Loss rate: 2.31%

Run 1: Report of Indigo-1-32 — Data Link

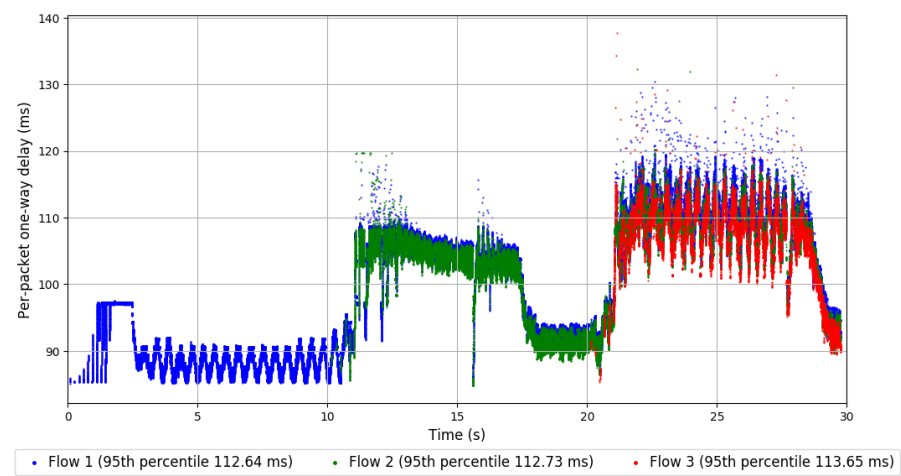
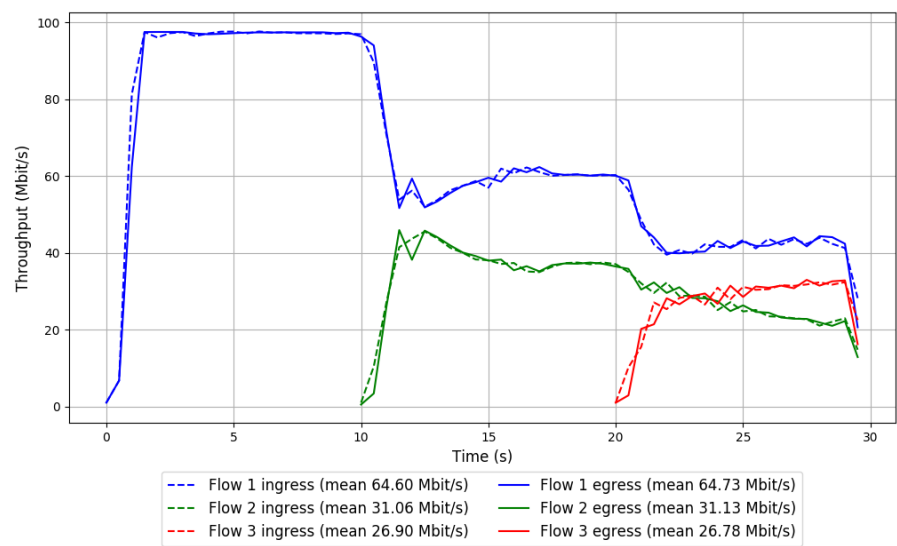


Run 2: Statistics of Indigo-1-32

Start at: 2018-03-13 14:33:12
End at: 2018-03-13 14:33:42
Local clock offset: -5.718 ms
Remote clock offset: -4.907 ms

Below is generated by plot.py at 2018-03-13 22:14:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.96 Mbit/s
95th percentile per-packet one-way delay: 112.854 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 64.73 Mbit/s
95th percentile per-packet one-way delay: 112.640 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 31.13 Mbit/s
95th percentile per-packet one-way delay: 112.727 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 26.78 Mbit/s
95th percentile per-packet one-way delay: 113.647 ms
Loss rate: 2.23%

Run 2: Report of Indigo-1-32 — Data Link



Run 3: Statistics of Indigo-1-32

Start at: 2018-03-13 14:56:48

End at: 2018-03-13 14:57:18

Local clock offset: -6.162 ms

Remote clock offset: 0.166 ms

Below is generated by plot.py at 2018-03-13 22:14:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.84 Mbit/s

95th percentile per-packet one-way delay: 108.519 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 63.57 Mbit/s

95th percentile per-packet one-way delay: 107.396 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 32.81 Mbit/s

95th percentile per-packet one-way delay: 108.468 ms

Loss rate: 0.76%

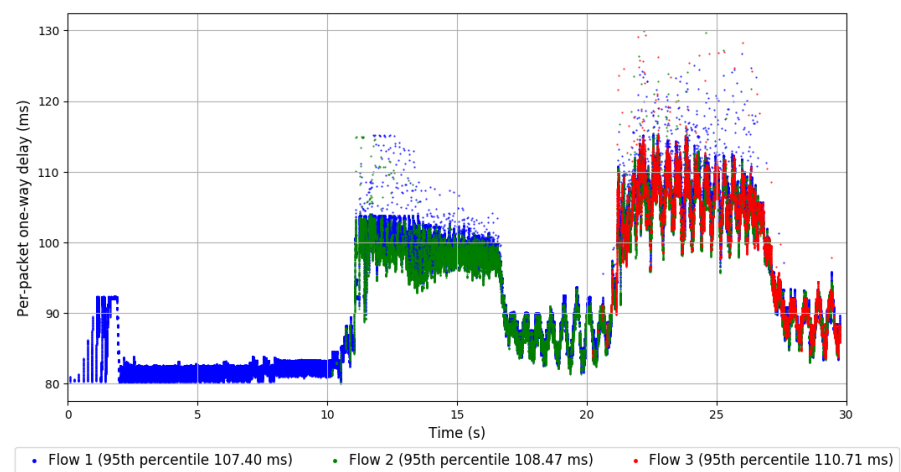
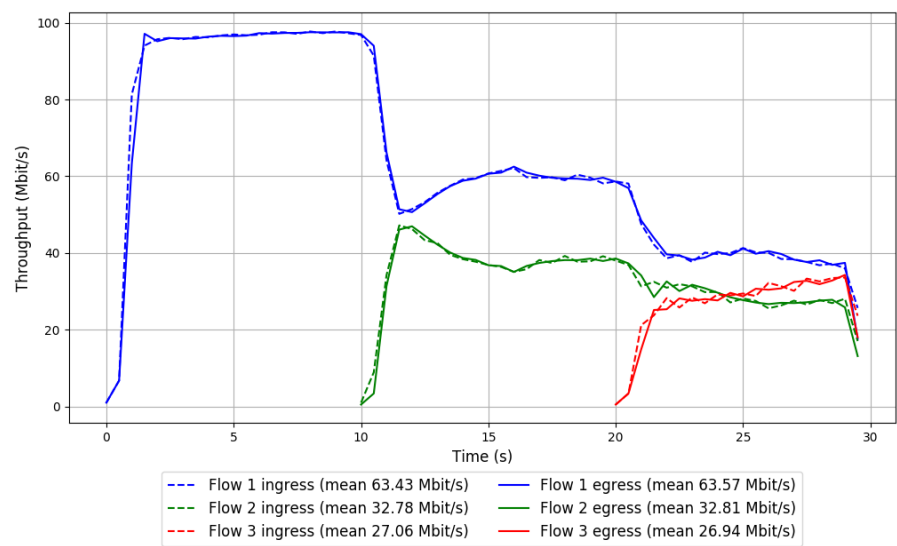
-- Flow 3:

Average throughput: 26.94 Mbit/s

95th percentile per-packet one-way delay: 110.708 ms

Loss rate: 2.26%

Run 3: Report of Indigo-1-32 — Data Link

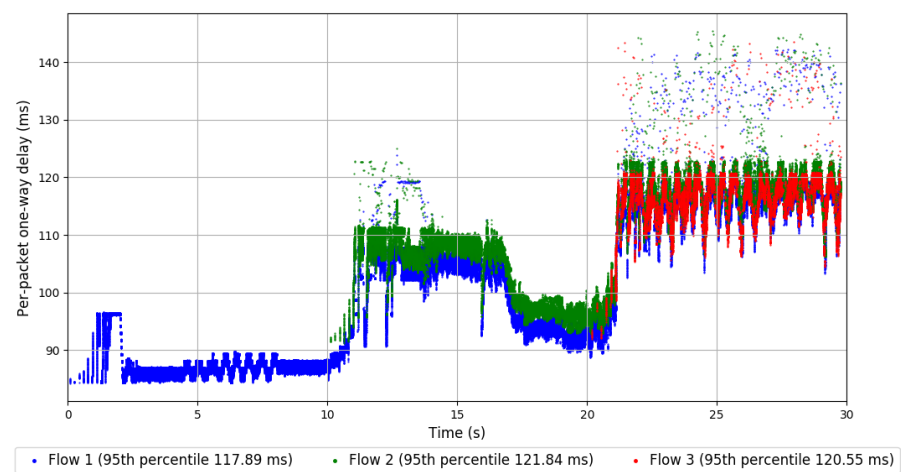
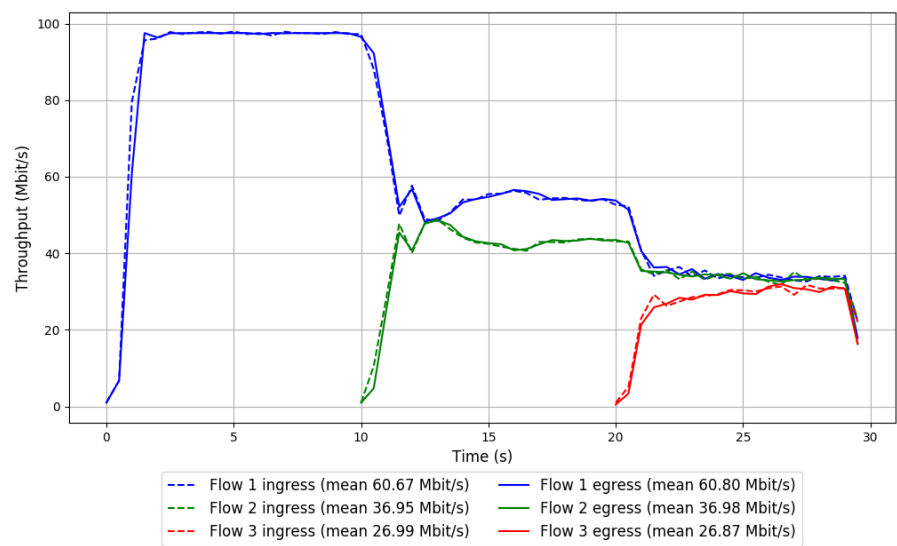


Run 4: Statistics of Indigo-1-32

Start at: 2018-03-13 15:20:31
End at: 2018-03-13 15:21:01
Local clock offset: -6.028 ms
Remote clock offset: -5.493 ms

Below is generated by plot.py at 2018-03-13 22:14:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.95 Mbit/s
95th percentile per-packet one-way delay: 119.850 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 60.80 Mbit/s
95th percentile per-packet one-way delay: 117.895 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 36.98 Mbit/s
95th percentile per-packet one-way delay: 121.840 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 26.87 Mbit/s
95th percentile per-packet one-way delay: 120.545 ms
Loss rate: 2.43%

Run 4: Report of Indigo-1-32 — Data Link

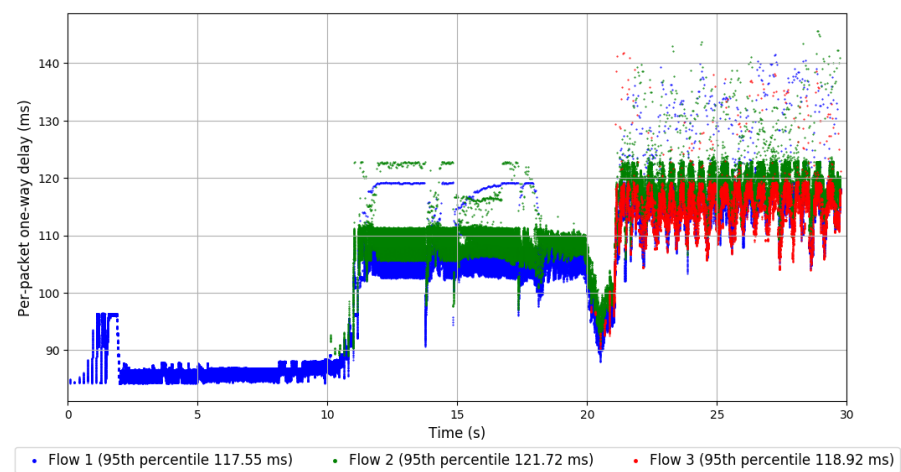
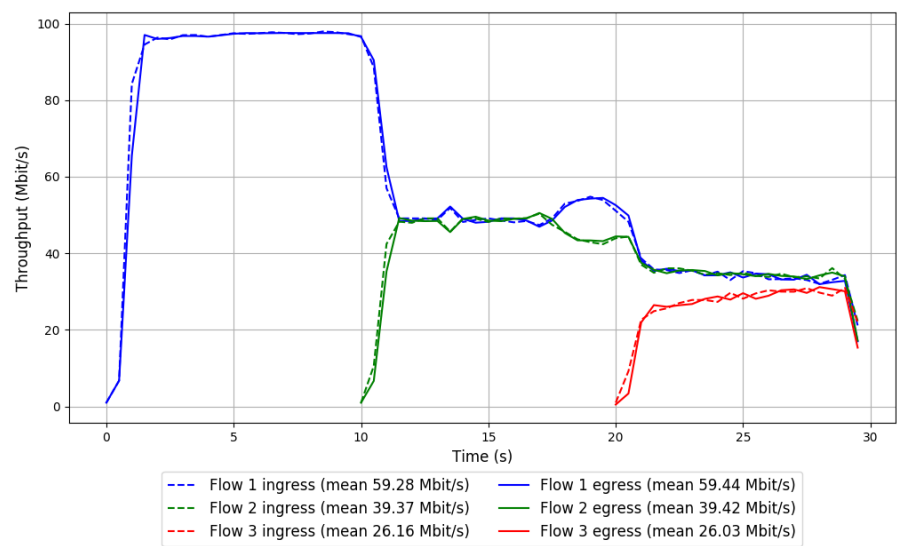


Run 5: Statistics of Indigo-1-32

Start at: 2018-03-13 15:44:05
End at: 2018-03-13 15:44:35
Local clock offset: -5.742 ms
Remote clock offset: -6.365 ms

Below is generated by plot.py at 2018-03-13 22:14:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.95 Mbit/s
95th percentile per-packet one-way delay: 119.152 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 59.44 Mbit/s
95th percentile per-packet one-way delay: 117.552 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 39.42 Mbit/s
95th percentile per-packet one-way delay: 121.723 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 26.03 Mbit/s
95th percentile per-packet one-way delay: 118.924 ms
Loss rate: 2.47%

Run 5: Report of Indigo-1-32 — Data Link

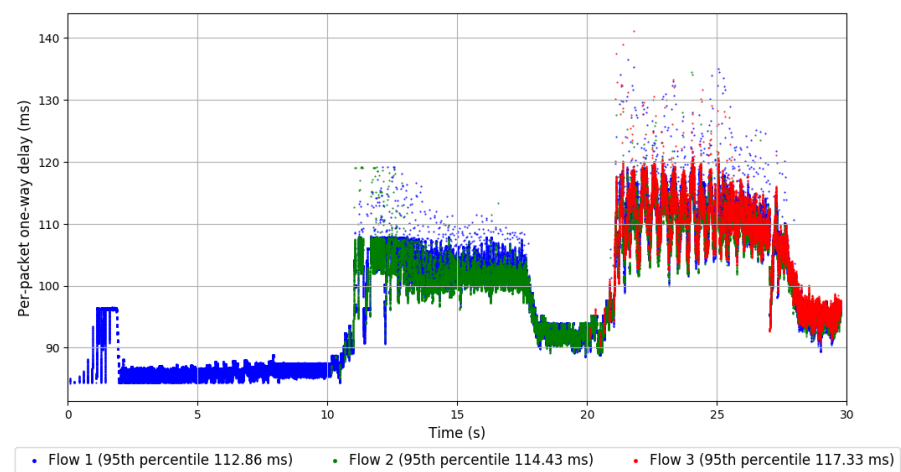
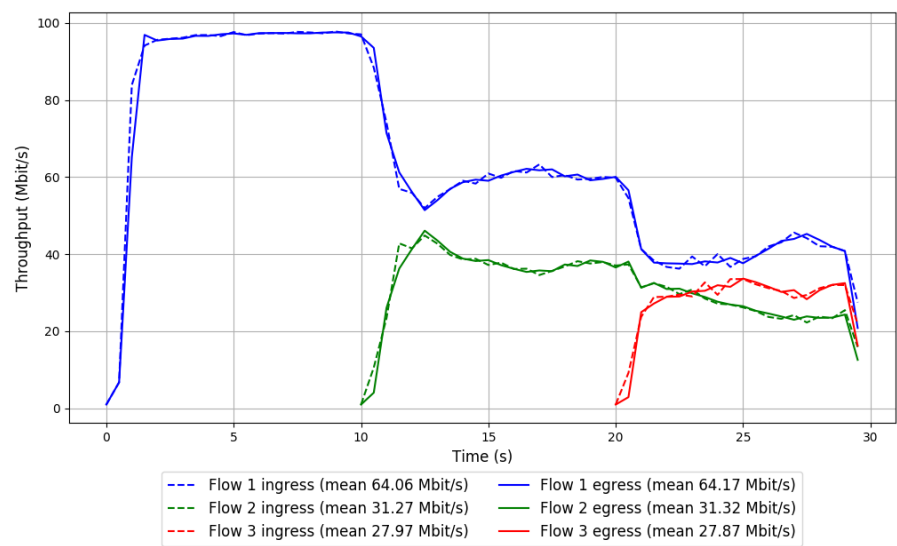


Run 6: Statistics of Indigo-1-32

Start at: 2018-03-13 16:07:38
End at: 2018-03-13 16:08:08
Local clock offset: -2.251 ms
Remote clock offset: -6.445 ms

Below is generated by plot.py at 2018-03-13 22:15:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.92 Mbit/s
95th percentile per-packet one-way delay: 114.398 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 64.17 Mbit/s
95th percentile per-packet one-way delay: 112.863 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 31.32 Mbit/s
95th percentile per-packet one-way delay: 114.429 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 27.87 Mbit/s
95th percentile per-packet one-way delay: 117.333 ms
Loss rate: 2.12%

Run 6: Report of Indigo-1-32 — Data Link

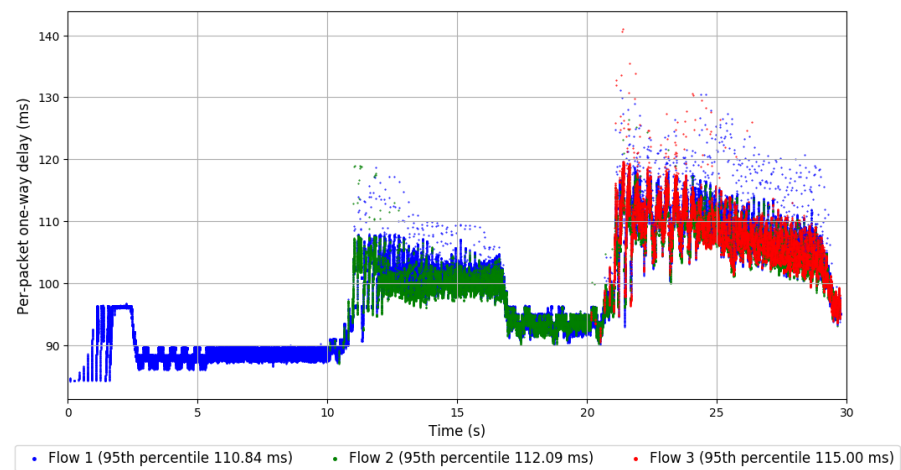
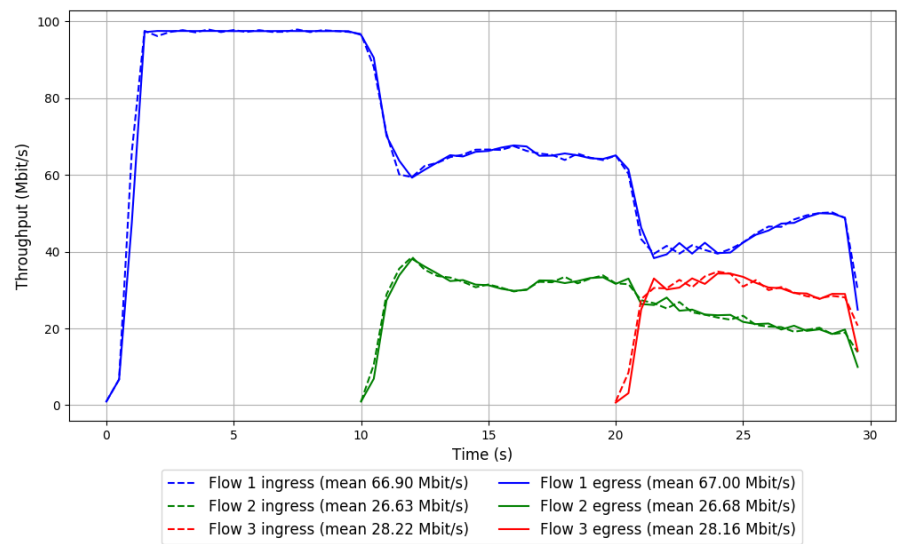


Run 7: Statistics of Indigo-1-32

Start at: 2018-03-13 16:31:09
End at: 2018-03-13 16:31:39
Local clock offset: -2.666 ms
Remote clock offset: -6.413 ms

Below is generated by plot.py at 2018-03-13 22:15:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.78 Mbit/s
95th percentile per-packet one-way delay: 112.062 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 67.00 Mbit/s
95th percentile per-packet one-way delay: 110.840 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 26.68 Mbit/s
95th percentile per-packet one-way delay: 112.091 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 28.16 Mbit/s
95th percentile per-packet one-way delay: 114.999 ms
Loss rate: 1.98%

Run 7: Report of Indigo-1-32 — Data Link



Run 8: Statistics of Indigo-1-32

Start at: 2018-03-13 16:54:38

End at: 2018-03-13 16:55:08

Local clock offset: -3.155 ms

Remote clock offset: 1.039 ms

Below is generated by plot.py at 2018-03-13 22:15:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.10 Mbit/s

95th percentile per-packet one-way delay: 101.764 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 70.40 Mbit/s

95th percentile per-packet one-way delay: 100.903 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 23.57 Mbit/s

95th percentile per-packet one-way delay: 102.013 ms

Loss rate: 0.69%

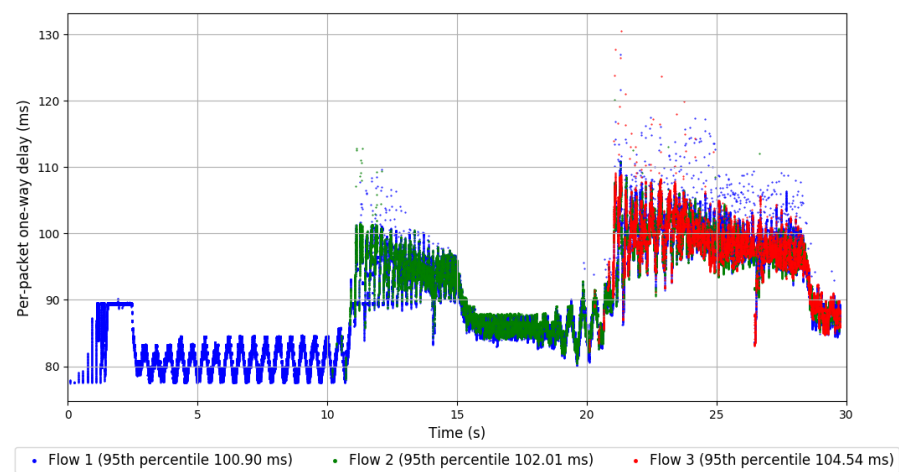
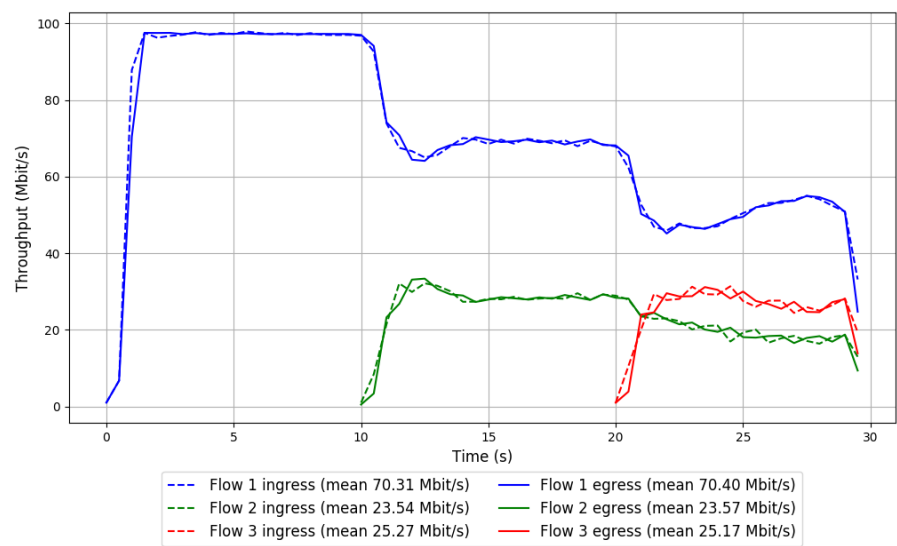
-- Flow 3:

Average throughput: 25.17 Mbit/s

95th percentile per-packet one-way delay: 104.541 ms

Loss rate: 2.10%

Run 8: Report of Indigo-1-32 — Data Link

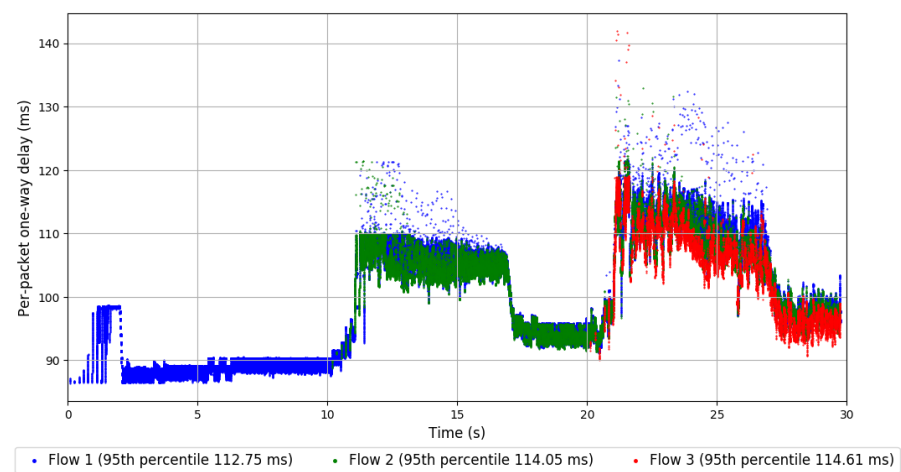
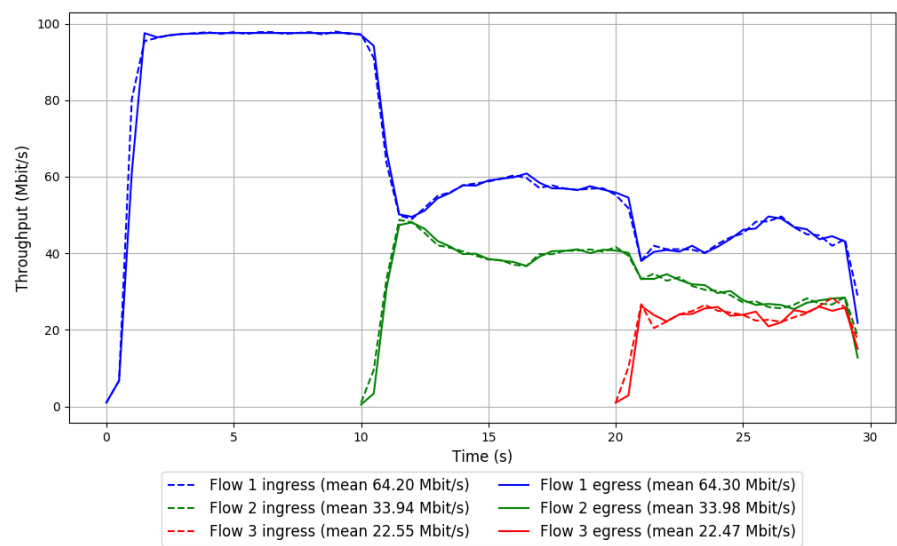


Run 9: Statistics of Indigo-1-32

Start at: 2018-03-13 17:18:11
End at: 2018-03-13 17:18:41
Local clock offset: -2.824 ms
Remote clock offset: -5.723 ms

Below is generated by plot.py at 2018-03-13 22:15:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.00 Mbit/s
95th percentile per-packet one-way delay: 113.422 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 64.30 Mbit/s
95th percentile per-packet one-way delay: 112.751 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 33.98 Mbit/s
95th percentile per-packet one-way delay: 114.047 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 22.47 Mbit/s
95th percentile per-packet one-way delay: 114.613 ms
Loss rate: 2.09%

Run 9: Report of Indigo-1-32 — Data Link

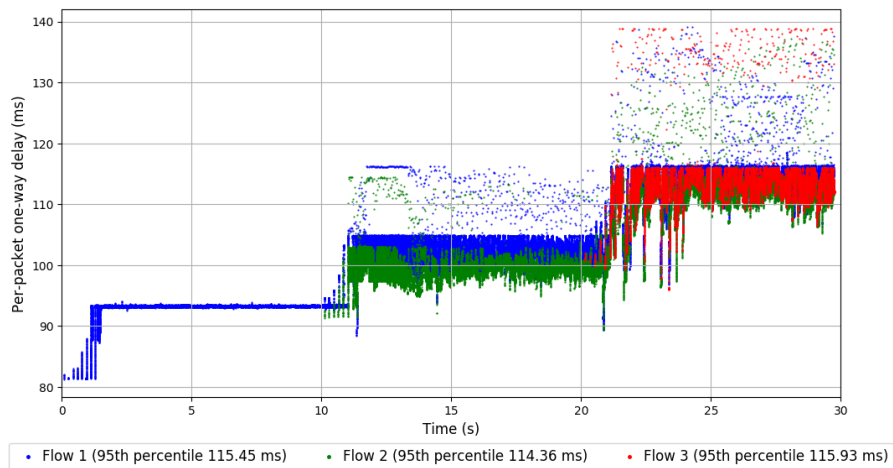
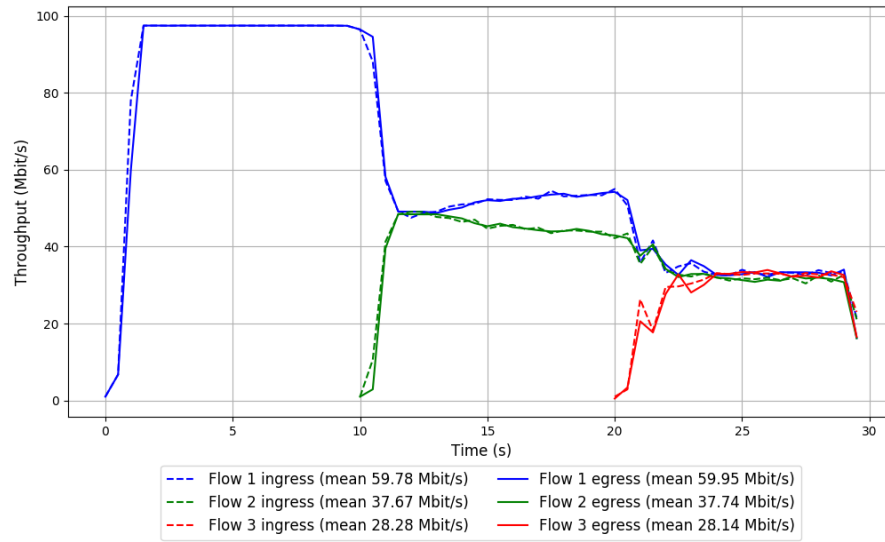


Run 10: Statistics of Indigo-1-32

Start at: 2018-03-13 17:41:51
End at: 2018-03-13 17:42:21
Local clock offset: -5.397 ms
Remote clock offset: -0.792 ms

Below is generated by plot.py at 2018-03-13 22:15:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.00 Mbit/s
95th percentile per-packet one-way delay: 115.621 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 59.95 Mbit/s
95th percentile per-packet one-way delay: 115.447 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 37.74 Mbit/s
95th percentile per-packet one-way delay: 114.364 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 28.14 Mbit/s
95th percentile per-packet one-way delay: 115.931 ms
Loss rate: 2.39%

Run 10: Report of Indigo-1-32 — Data Link

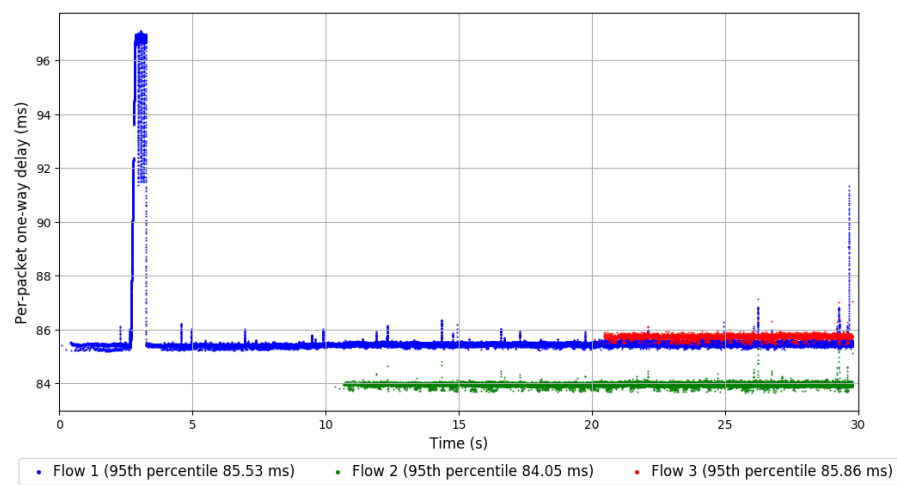
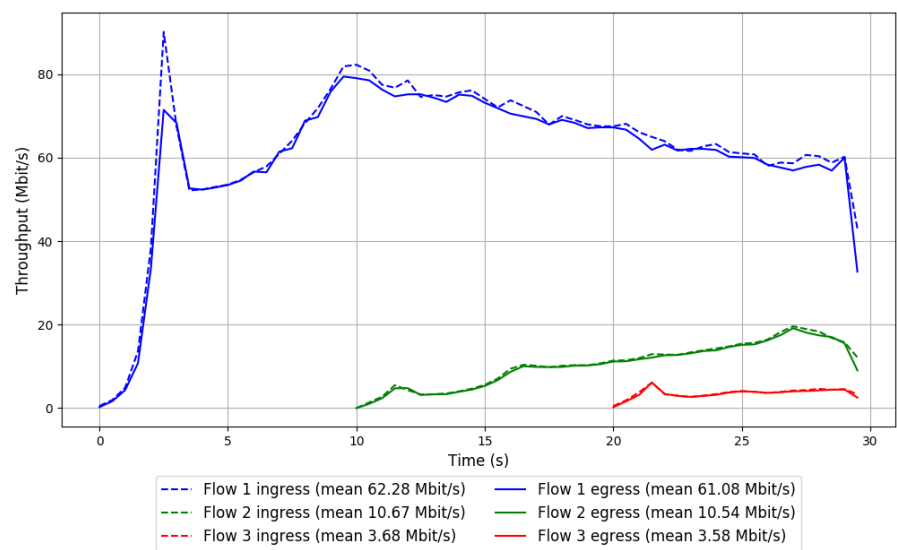


Run 1: Statistics of Vivace-latency

Start at: 2018-03-13 14:13:38
End at: 2018-03-13 14:14:08
Local clock offset: -6.22 ms
Remote clock offset: -5.817 ms

Below is generated by plot.py at 2018-03-13 22:15:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.14 Mbit/s
95th percentile per-packet one-way delay: 85.573 ms
Loss rate: 2.58%
-- Flow 1:
Average throughput: 61.08 Mbit/s
95th percentile per-packet one-way delay: 85.533 ms
Loss rate: 2.47%
-- Flow 2:
Average throughput: 10.54 Mbit/s
95th percentile per-packet one-way delay: 84.048 ms
Loss rate: 3.26%
-- Flow 3:
Average throughput: 3.58 Mbit/s
95th percentile per-packet one-way delay: 85.856 ms
Loss rate: 4.37%

Run 1: Report of Vivace-latency — Data Link

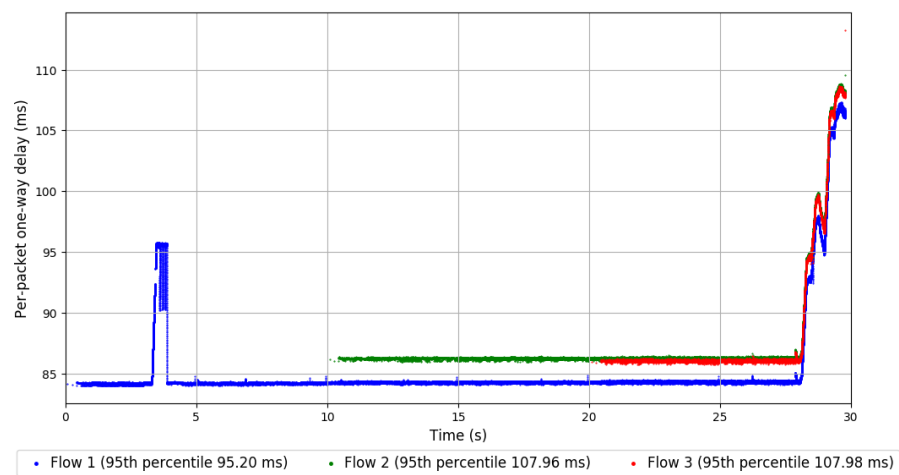
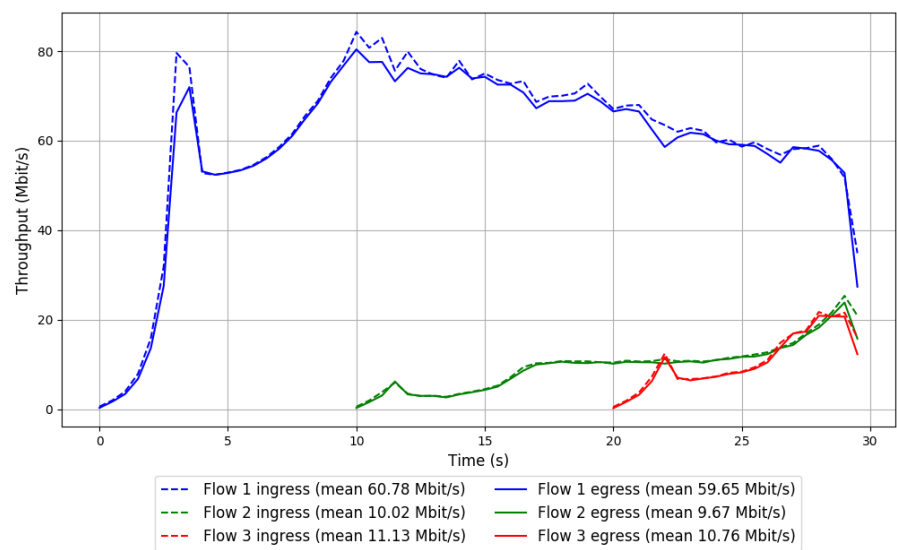


Run 2: Statistics of Vivace-latency

Start at: 2018-03-13 14:37:11
End at: 2018-03-13 14:37:41
Local clock offset: -5.636 ms
Remote clock offset: -5.686 ms

Below is generated by plot.py at 2018-03-13 22:15:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.56 Mbit/s
95th percentile per-packet one-way delay: 96.887 ms
Loss rate: 2.75%
-- Flow 1:
Average throughput: 59.65 Mbit/s
95th percentile per-packet one-way delay: 95.203 ms
Loss rate: 2.45%
-- Flow 2:
Average throughput: 9.67 Mbit/s
95th percentile per-packet one-way delay: 107.959 ms
Loss rate: 4.29%
-- Flow 3:
Average throughput: 10.76 Mbit/s
95th percentile per-packet one-way delay: 107.979 ms
Loss rate: 4.93%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-03-13 15:00:48

End at: 2018-03-13 15:01:18

Local clock offset: -6.218 ms

Remote clock offset: 0.196 ms

Below is generated by plot.py at 2018-03-13 22:15:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.09 Mbit/s

95th percentile per-packet one-way delay: 100.204 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 61.11 Mbit/s

95th percentile per-packet one-way delay: 100.437 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 22.67 Mbit/s

95th percentile per-packet one-way delay: 99.399 ms

Loss rate: 1.24%

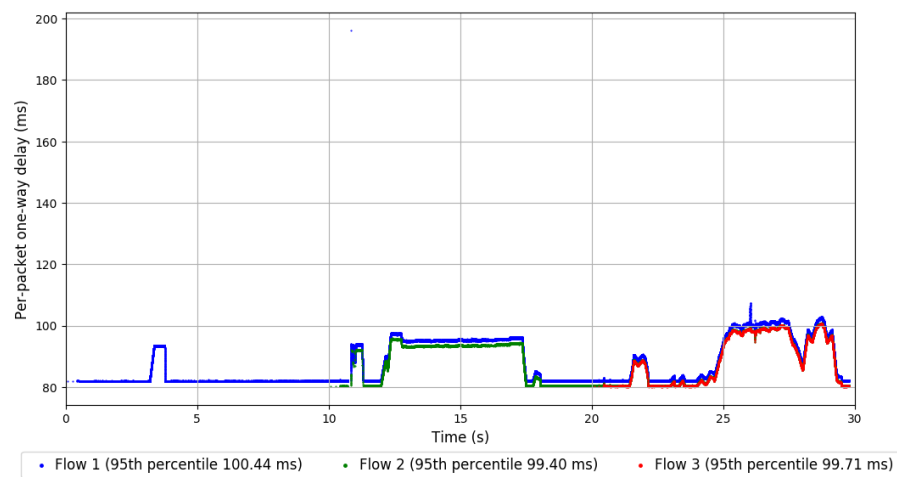
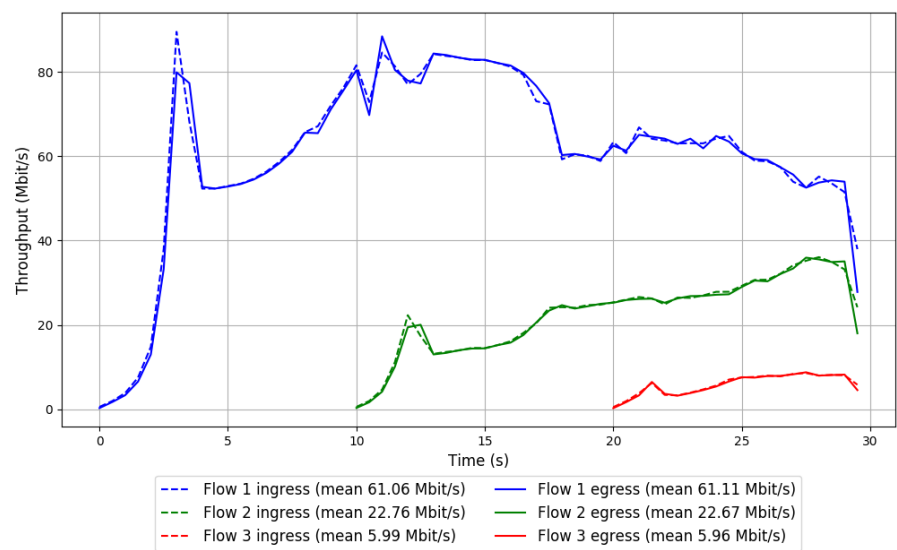
-- Flow 3:

Average throughput: 5.96 Mbit/s

95th percentile per-packet one-way delay: 99.713 ms

Loss rate: 2.23%

Run 3: Report of Vivace-latency — Data Link

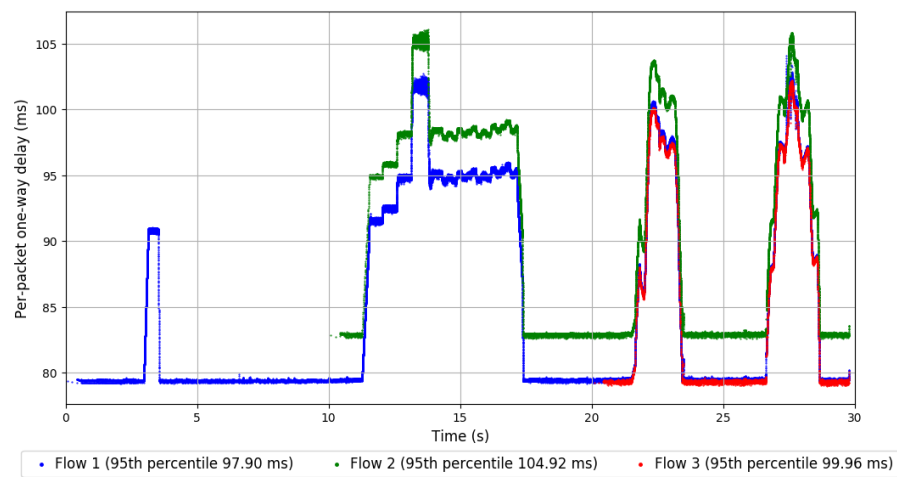
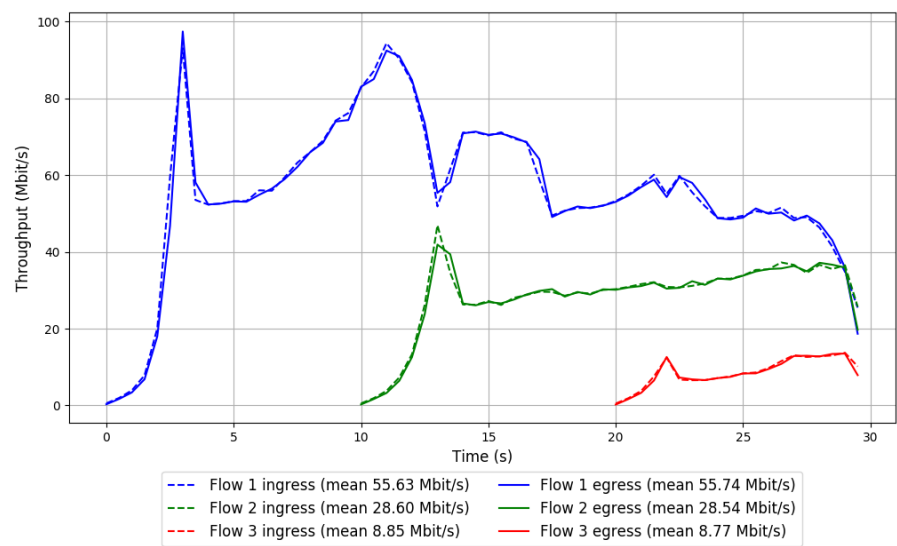


Run 4: Statistics of Vivace-latency

Start at: 2018-03-13 15:24:30
End at: 2018-03-13 15:25:00
Local clock offset: -6.014 ms
Remote clock offset: -0.727 ms

Below is generated by plot.py at 2018-03-13 22:16:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.52 Mbit/s
95th percentile per-packet one-way delay: 100.799 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 55.74 Mbit/s
95th percentile per-packet one-way delay: 97.899 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 28.54 Mbit/s
95th percentile per-packet one-way delay: 104.917 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 8.77 Mbit/s
95th percentile per-packet one-way delay: 99.964 ms
Loss rate: 2.56%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-03-13 15:48:05

End at: 2018-03-13 15:48:35

Local clock offset: -5.742 ms

Remote clock offset: 0.202 ms

Below is generated by plot.py at 2018-03-13 22:16:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.98 Mbit/s

95th percentile per-packet one-way delay: 90.898 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 69.14 Mbit/s

95th percentile per-packet one-way delay: 90.925 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 12.10 Mbit/s

95th percentile per-packet one-way delay: 88.249 ms

Loss rate: 1.24%

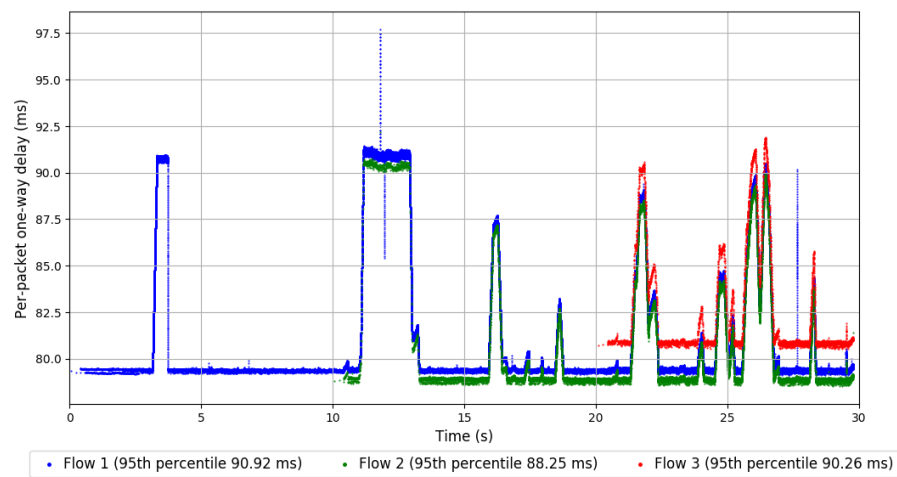
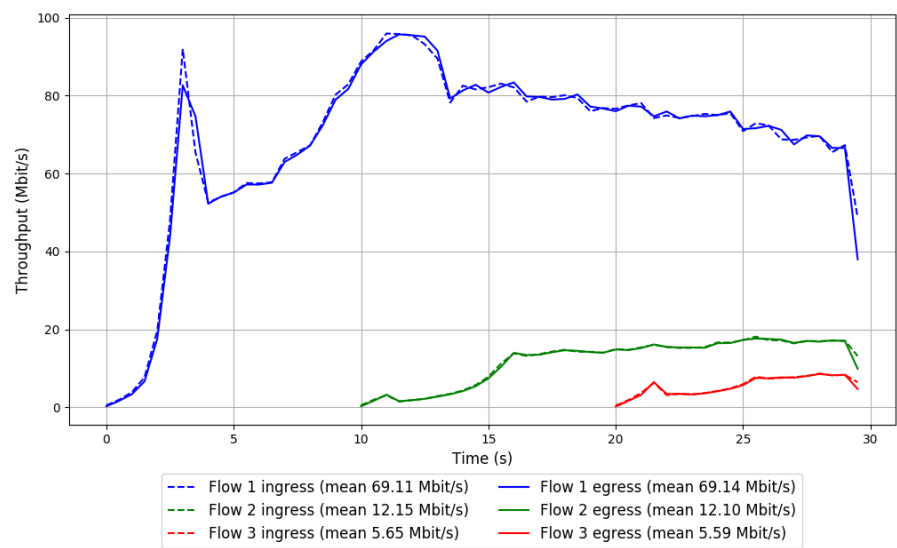
-- Flow 3:

Average throughput: 5.59 Mbit/s

95th percentile per-packet one-way delay: 90.264 ms

Loss rate: 2.80%

Run 5: Report of Vivace-latency — Data Link

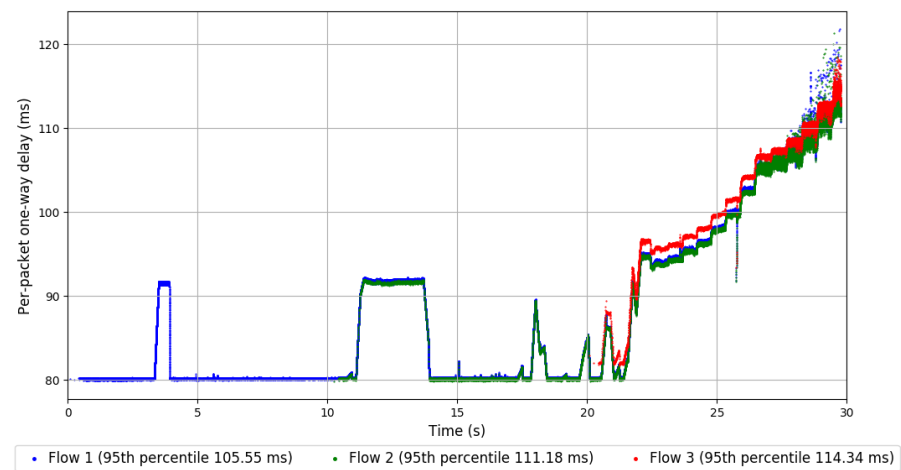
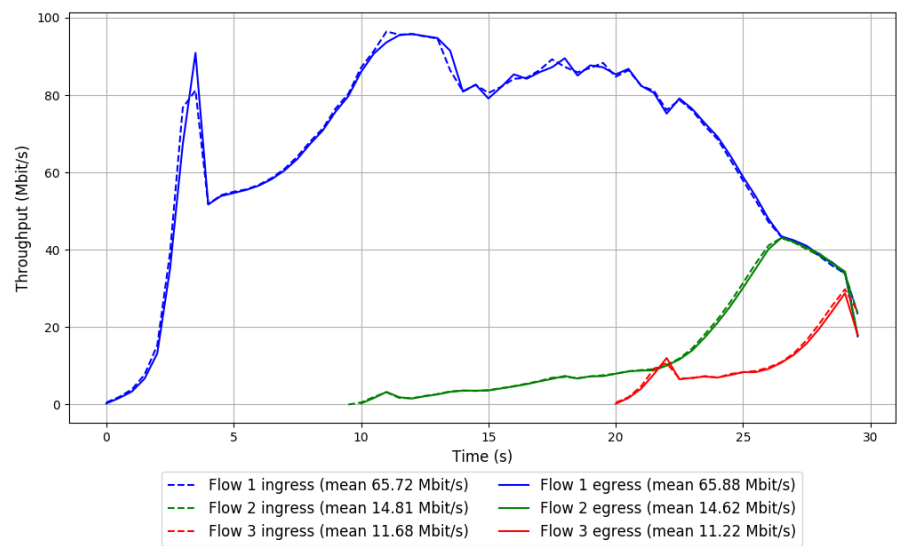


Run 6: Statistics of Vivace-latency

Start at: 2018-03-13 16:11:37
End at: 2018-03-13 16:12:07
Local clock offset: -1.949 ms
Remote clock offset: -0.553 ms

Below is generated by plot.py at 2018-03-13 22:16:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.24 Mbit/s
95th percentile per-packet one-way delay: 108.799 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 65.88 Mbit/s
95th percentile per-packet one-way delay: 105.548 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 14.62 Mbit/s
95th percentile per-packet one-way delay: 111.177 ms
Loss rate: 2.20%
-- Flow 3:
Average throughput: 11.22 Mbit/s
95th percentile per-packet one-way delay: 114.336 ms
Loss rate: 5.79%

Run 6: Report of Vivace-latency — Data Link

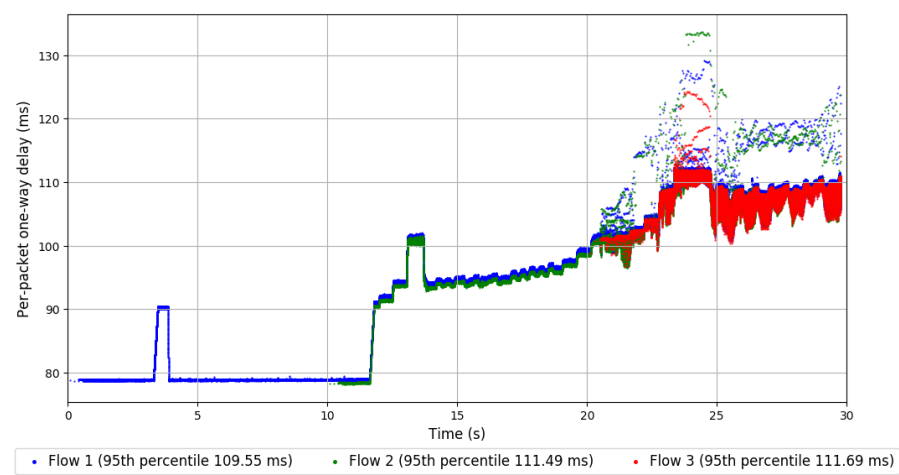
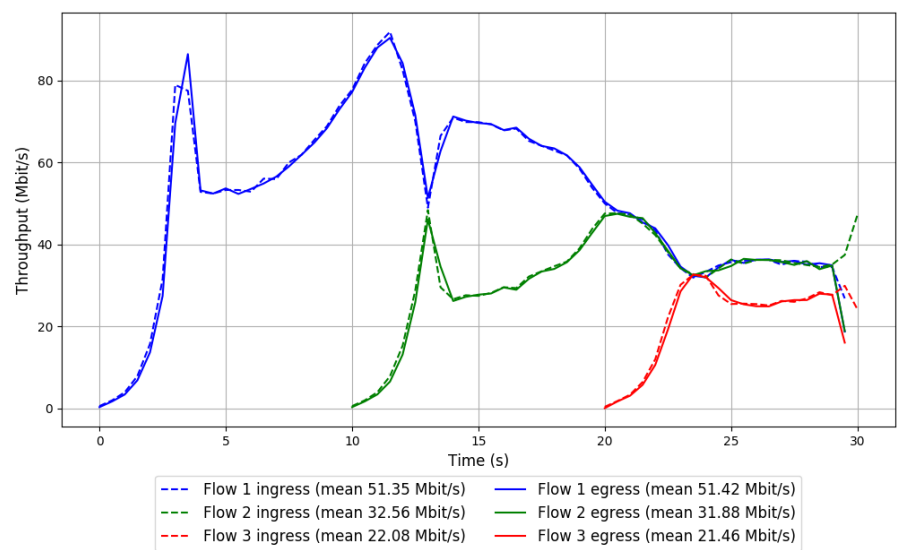


Run 7: Statistics of Vivace-latency

Start at: 2018-03-13 16:35:07
End at: 2018-03-13 16:35:37
Local clock offset: -2.919 ms
Remote clock offset: -0.318 ms

Below is generated by plot.py at 2018-03-13 22:16:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.54 Mbit/s
95th percentile per-packet one-way delay: 110.643 ms
Loss rate: 2.73%
-- Flow 1:
Average throughput: 51.42 Mbit/s
95th percentile per-packet one-way delay: 109.553 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 31.88 Mbit/s
95th percentile per-packet one-way delay: 111.488 ms
Loss rate: 5.55%
-- Flow 3:
Average throughput: 21.46 Mbit/s
95th percentile per-packet one-way delay: 111.686 ms
Loss rate: 9.62%

Run 7: Report of Vivace-latency — Data Link

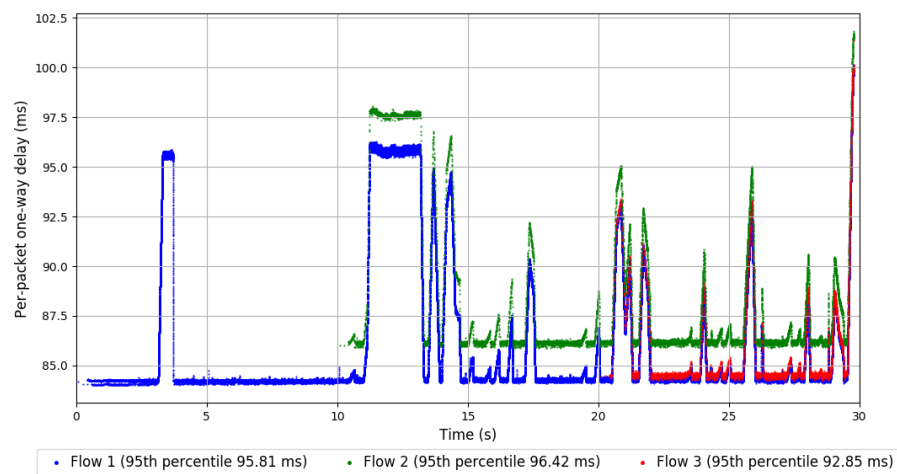
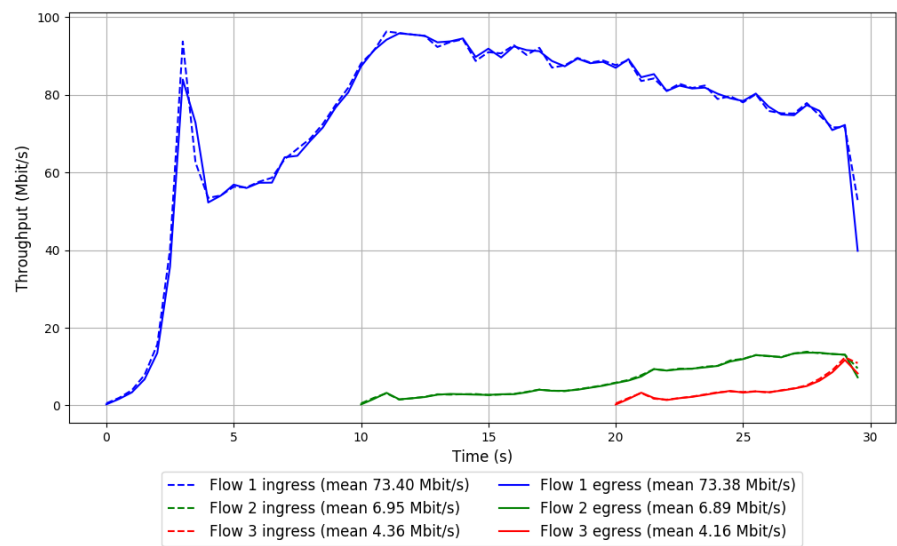


Run 8: Statistics of Vivace-latency

Start at: 2018-03-13 16:58:36
End at: 2018-03-13 16:59:06
Local clock offset: -3.117 ms
Remote clock offset: -5.619 ms

Below is generated by plot.py at 2018-03-13 22:16:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.30 Mbit/s
95th percentile per-packet one-way delay: 95.812 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 73.38 Mbit/s
95th percentile per-packet one-way delay: 95.812 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 6.89 Mbit/s
95th percentile per-packet one-way delay: 96.417 ms
Loss rate: 1.68%
-- Flow 3:
Average throughput: 4.16 Mbit/s
95th percentile per-packet one-way delay: 92.846 ms
Loss rate: 6.10%

Run 8: Report of Vivace-latency — Data Link

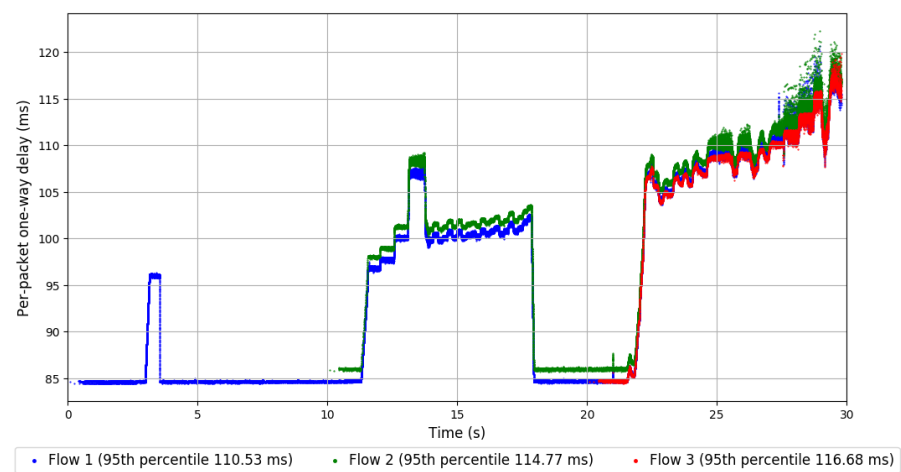
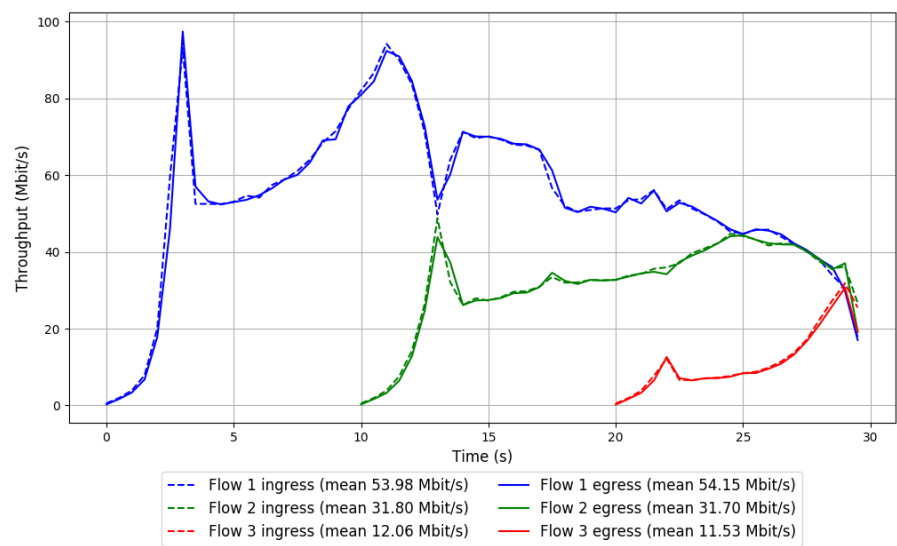


Run 9: Statistics of Vivace-latency

Start at: 2018-03-13 17:22:09
End at: 2018-03-13 17:22:39
Local clock offset: -2.803 ms
Remote clock offset: -5.651 ms

Below is generated by plot.py at 2018-03-13 22:16:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.91 Mbit/s
95th percentile per-packet one-way delay: 113.254 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 54.15 Mbit/s
95th percentile per-packet one-way delay: 110.533 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 31.70 Mbit/s
95th percentile per-packet one-way delay: 114.772 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 11.53 Mbit/s
95th percentile per-packet one-way delay: 116.680 ms
Loss rate: 5.92%

Run 9: Report of Vivace-latency — Data Link

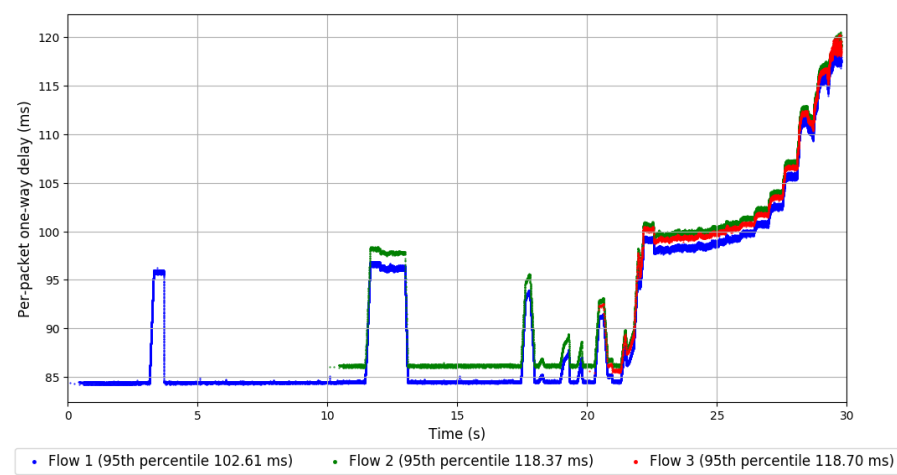
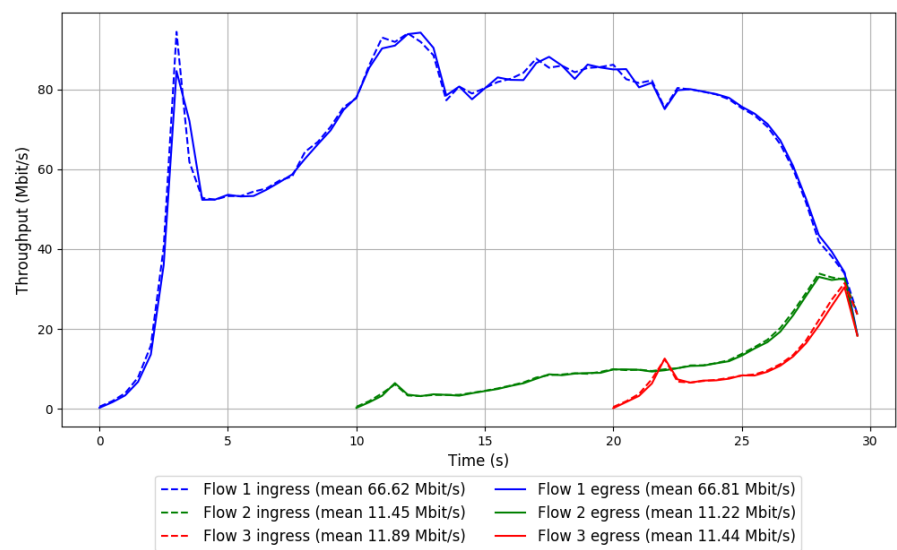


Run 10: Statistics of Vivace-latency

Start at: 2018-03-13 17:45:49
End at: 2018-03-13 17:46:19
Local clock offset: -5.753 ms
Remote clock offset: -5.683 ms

Below is generated by plot.py at 2018-03-13 22:17:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.99 Mbit/s
95th percentile per-packet one-way delay: 112.035 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 66.81 Mbit/s
95th percentile per-packet one-way delay: 102.613 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 11.22 Mbit/s
95th percentile per-packet one-way delay: 118.369 ms
Loss rate: 2.85%
-- Flow 3:
Average throughput: 11.44 Mbit/s
95th percentile per-packet one-way delay: 118.700 ms
Loss rate: 5.51%

Run 10: Report of Vivace-latency — Data Link

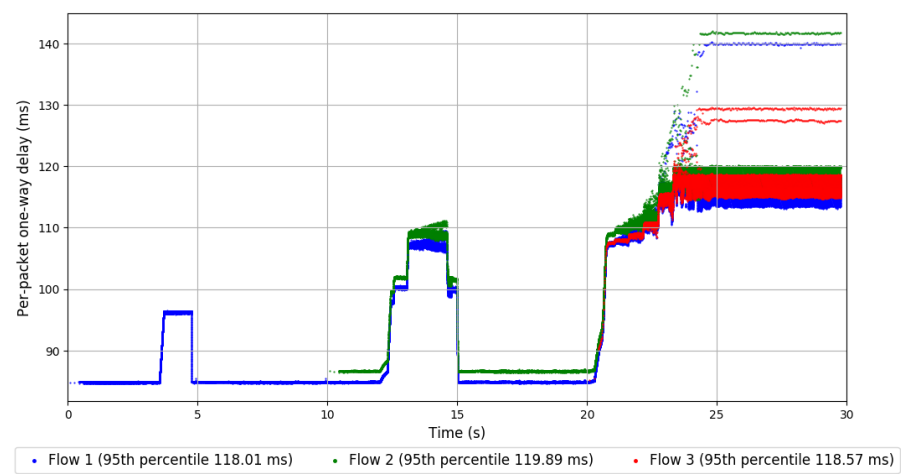
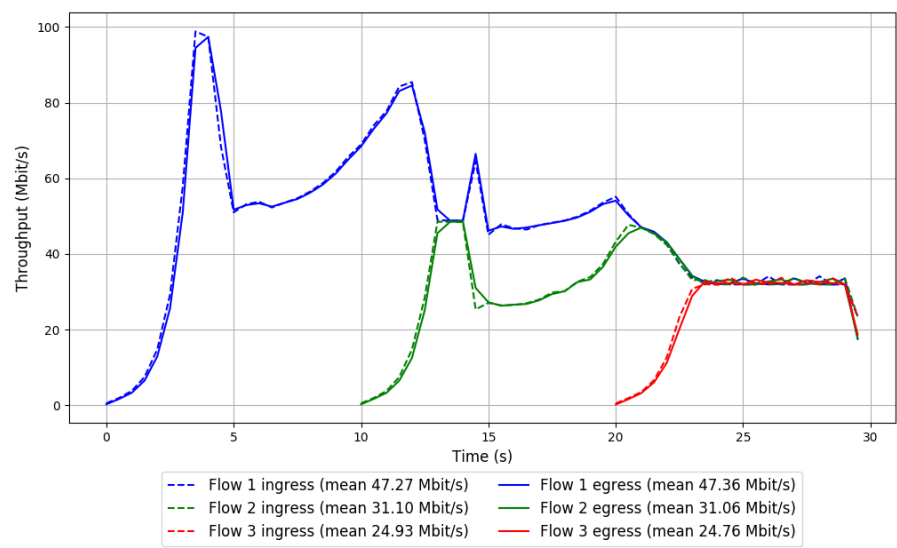


Run 1: Statistics of Vivace-loss

Start at: 2018-03-13 14:22:42
End at: 2018-03-13 14:23:12
Local clock offset: -5.86 ms
Remote clock offset: -5.012 ms

Below is generated by plot.py at 2018-03-13 22:17:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.00 Mbit/s
95th percentile per-packet one-way delay: 119.522 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 47.36 Mbit/s
95th percentile per-packet one-way delay: 118.007 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 31.06 Mbit/s
95th percentile per-packet one-way delay: 119.885 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 24.76 Mbit/s
95th percentile per-packet one-way delay: 118.569 ms
Loss rate: 2.61%

Run 1: Report of Vivace-loss — Data Link

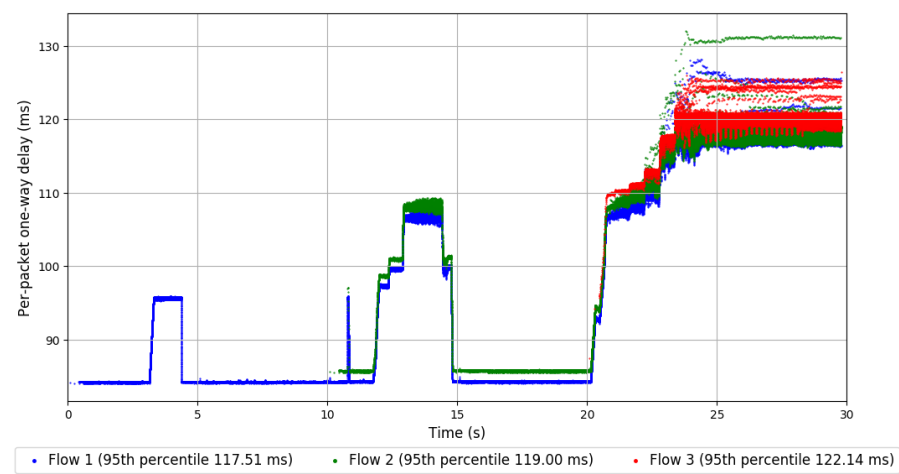
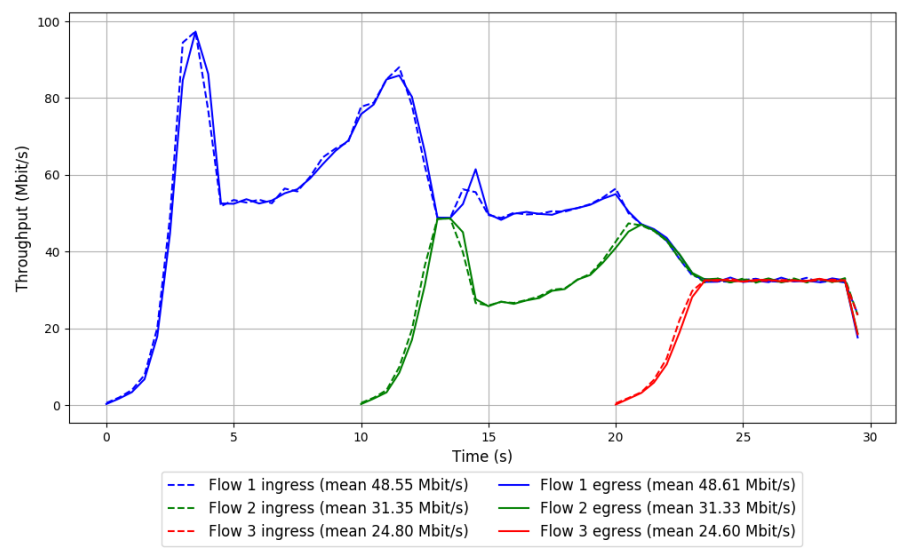


Run 2: Statistics of Vivace-loss

Start at: 2018-03-13 14:46:18
End at: 2018-03-13 14:46:48
Local clock offset: -5.916 ms
Remote clock offset: -5.525 ms

Below is generated by plot.py at 2018-03-13 22:17:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.40 Mbit/s
95th percentile per-packet one-way delay: 120.244 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 48.61 Mbit/s
95th percentile per-packet one-way delay: 117.508 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 31.33 Mbit/s
95th percentile per-packet one-way delay: 119.001 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 24.60 Mbit/s
95th percentile per-packet one-way delay: 122.140 ms
Loss rate: 2.67%

Run 2: Report of Vivace-loss — Data Link

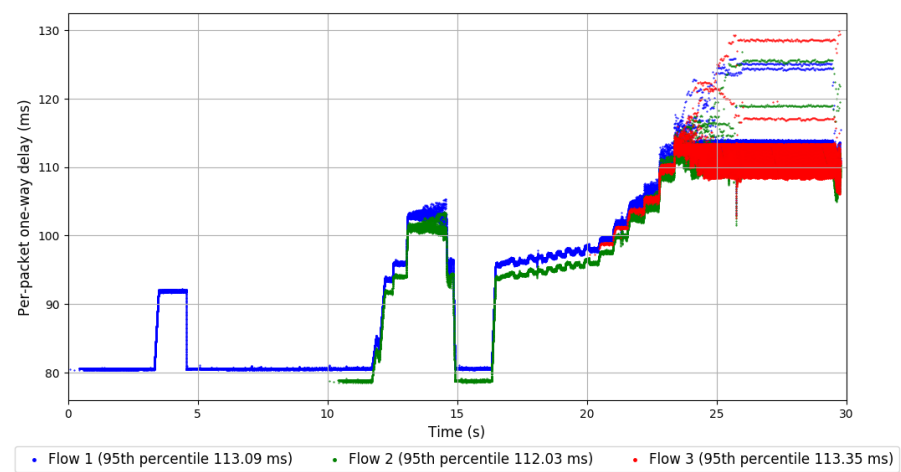
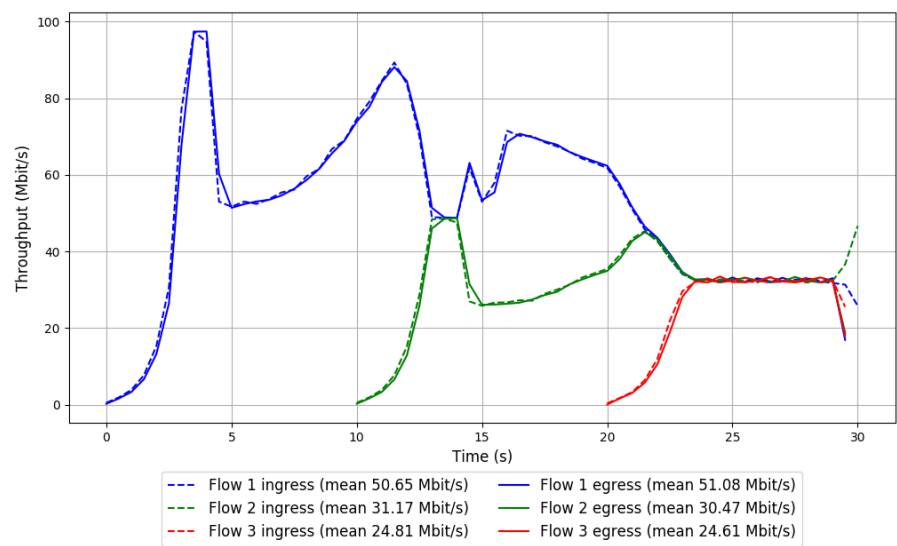


Run 3: Statistics of Vivace-loss

Start at: 2018-03-13 15:10:01
End at: 2018-03-13 15:10:31
Local clock offset: -6.357 ms
Remote clock offset: -0.039 ms

Below is generated by plot.py at 2018-03-13 22:17:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.29 Mbit/s
95th percentile per-packet one-way delay: 113.181 ms
Loss rate: 2.75%
-- Flow 1:
Average throughput: 51.08 Mbit/s
95th percentile per-packet one-way delay: 113.086 ms
Loss rate: 1.52%
-- Flow 2:
Average throughput: 30.47 Mbit/s
95th percentile per-packet one-way delay: 112.028 ms
Loss rate: 5.68%
-- Flow 3:
Average throughput: 24.61 Mbit/s
95th percentile per-packet one-way delay: 113.351 ms
Loss rate: 2.93%

Run 3: Report of Vivace-loss — Data Link

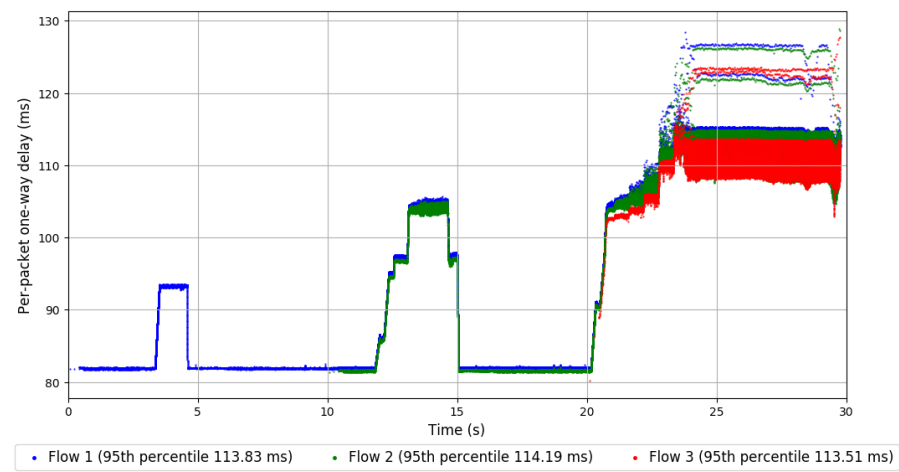
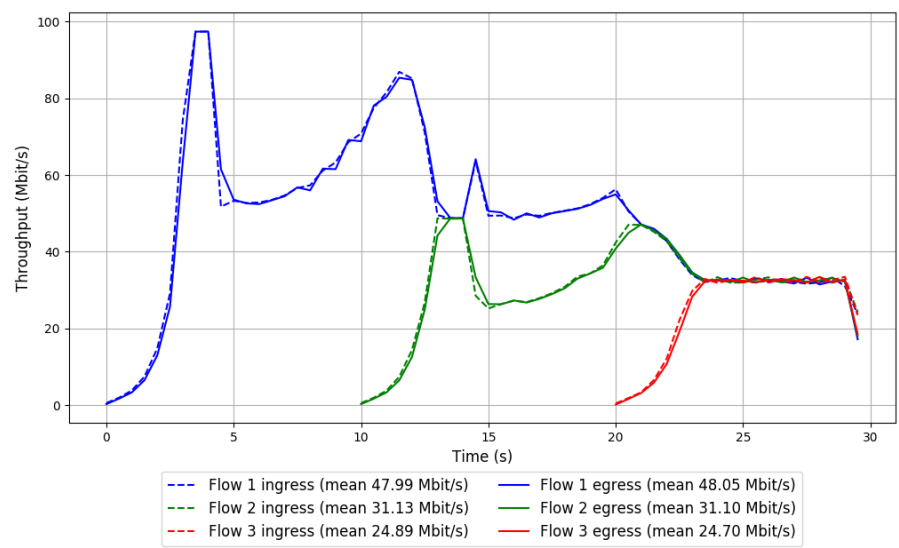


Run 4: Statistics of Vivace-loss

Start at: 2018-03-13 15:33:37
End at: 2018-03-13 15:34:07
Local clock offset: -5.8 ms
Remote clock offset: -0.261 ms

Below is generated by plot.py at 2018-03-13 22:17:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.70 Mbit/s
95th percentile per-packet one-way delay: 113.886 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 48.05 Mbit/s
95th percentile per-packet one-way delay: 113.829 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 31.10 Mbit/s
95th percentile per-packet one-way delay: 114.185 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 24.70 Mbit/s
95th percentile per-packet one-way delay: 113.508 ms
Loss rate: 2.62%

Run 4: Report of Vivace-loss — Data Link

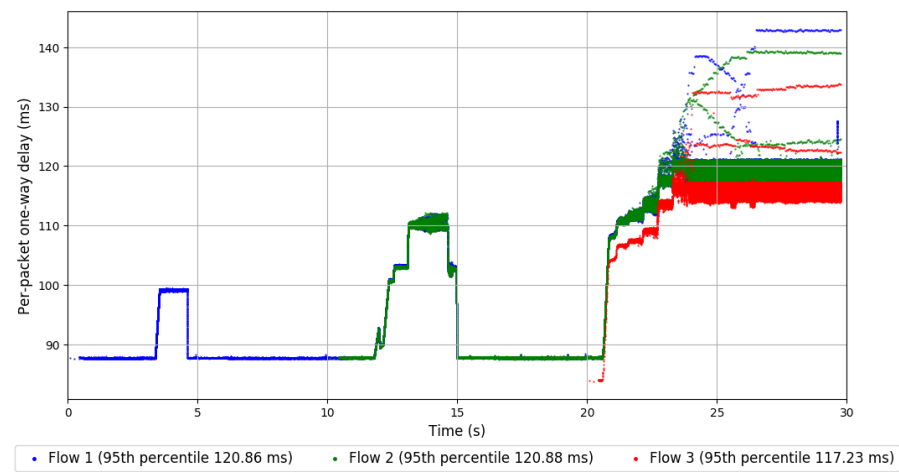
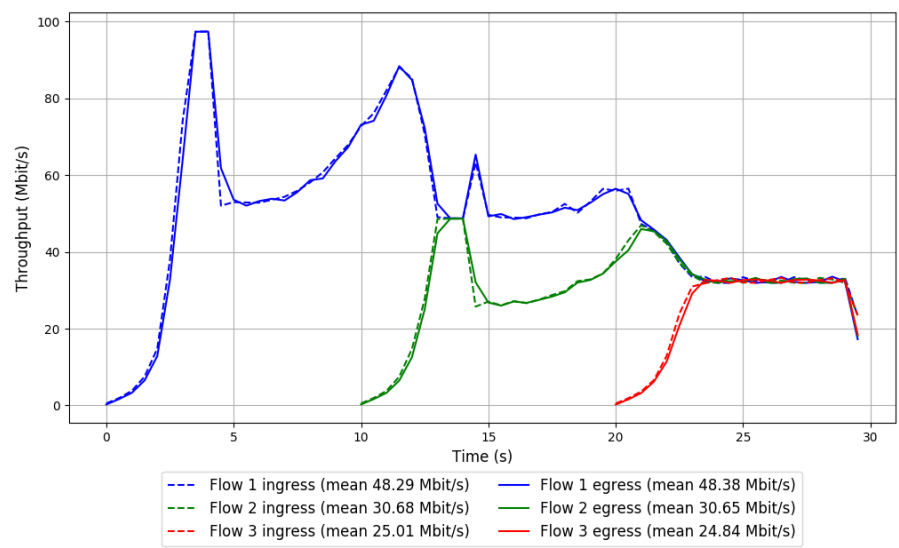


Run 5: Statistics of Vivace-loss

Start at: 2018-03-13 15:57:10
End at: 2018-03-13 15:57:40
Local clock offset: -3.518 ms
Remote clock offset: -6.549 ms

Below is generated by plot.py at 2018-03-13 22:18:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.79 Mbit/s
95th percentile per-packet one-way delay: 120.823 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 48.38 Mbit/s
95th percentile per-packet one-way delay: 120.865 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 30.65 Mbit/s
95th percentile per-packet one-way delay: 120.876 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 24.84 Mbit/s
95th percentile per-packet one-way delay: 117.226 ms
Loss rate: 2.60%

Run 5: Report of Vivace-loss — Data Link

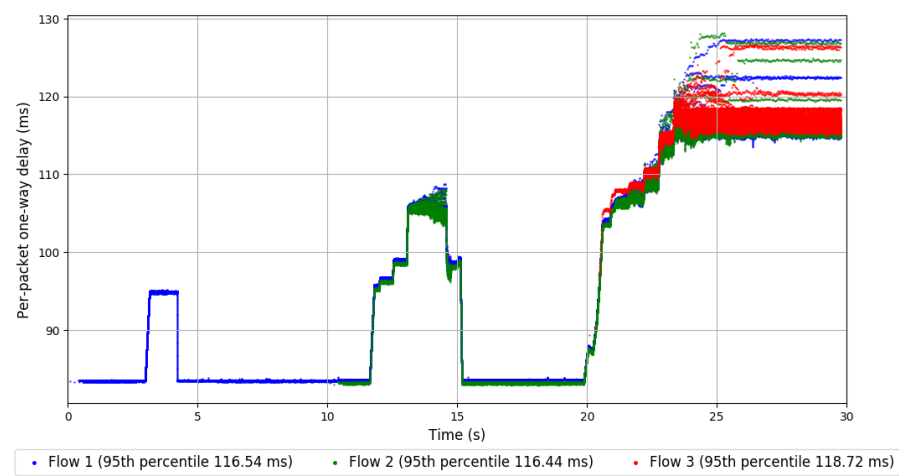
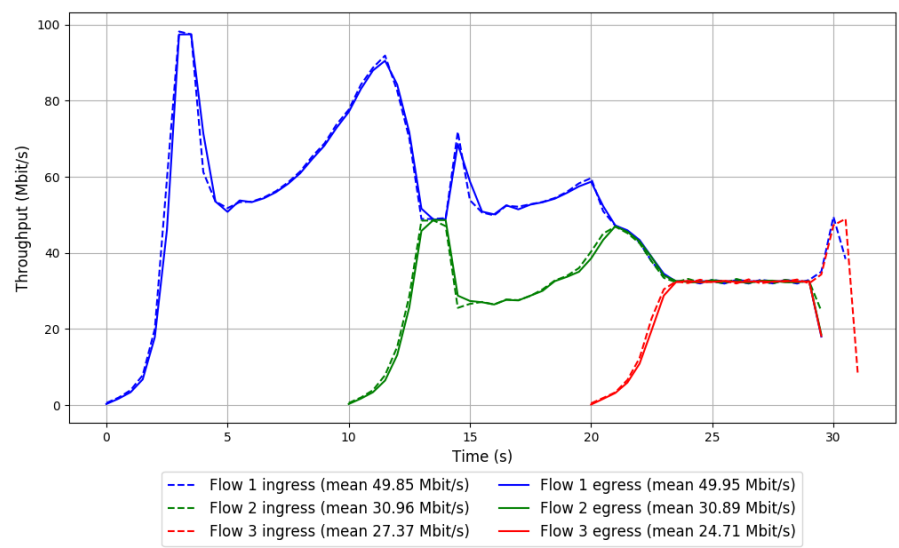


Run 6: Statistics of Vivace-loss

Start at: 2018-03-13 16:20:42
End at: 2018-03-13 16:21:12
Local clock offset: -1.439 ms
Remote clock offset: -5.575 ms

Below is generated by plot.py at 2018-03-13 22:18:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.48 Mbit/s
95th percentile per-packet one-way delay: 117.222 ms
Loss rate: 5.18%
-- Flow 1:
Average throughput: 49.95 Mbit/s
95th percentile per-packet one-way delay: 116.543 ms
Loss rate: 3.65%
-- Flow 2:
Average throughput: 30.89 Mbit/s
95th percentile per-packet one-way delay: 116.445 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 24.71 Mbit/s
95th percentile per-packet one-way delay: 118.724 ms
Loss rate: 21.18%

Run 6: Report of Vivace-loss — Data Link

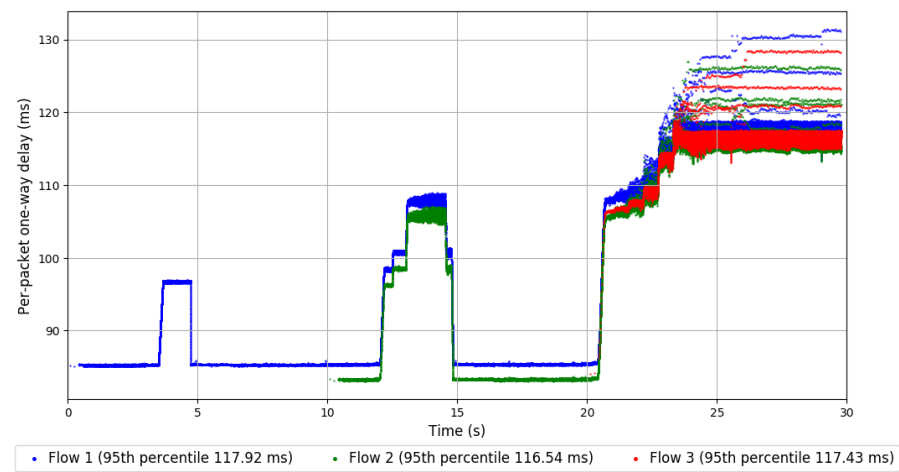
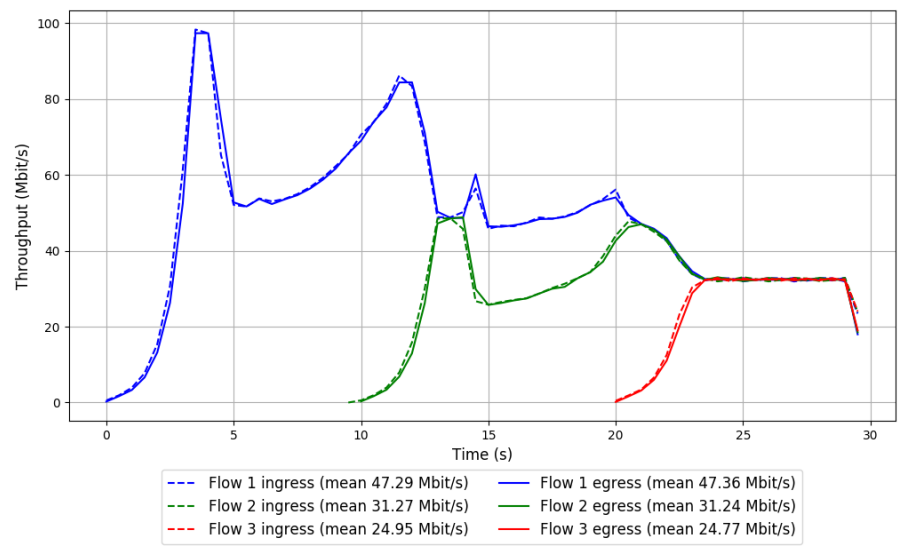


Run 7: Statistics of Vivace-loss

Start at: 2018-03-13 16:44:13
End at: 2018-03-13 16:44:43
Local clock offset: -3.153 ms
Remote clock offset: -5.131 ms

Below is generated by plot.py at 2018-03-13 22:18:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.14 Mbit/s
95th percentile per-packet one-way delay: 117.469 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 47.36 Mbit/s
95th percentile per-packet one-way delay: 117.921 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 31.24 Mbit/s
95th percentile per-packet one-way delay: 116.542 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 24.77 Mbit/s
95th percentile per-packet one-way delay: 117.430 ms
Loss rate: 2.60%

Run 7: Report of Vivace-loss — Data Link

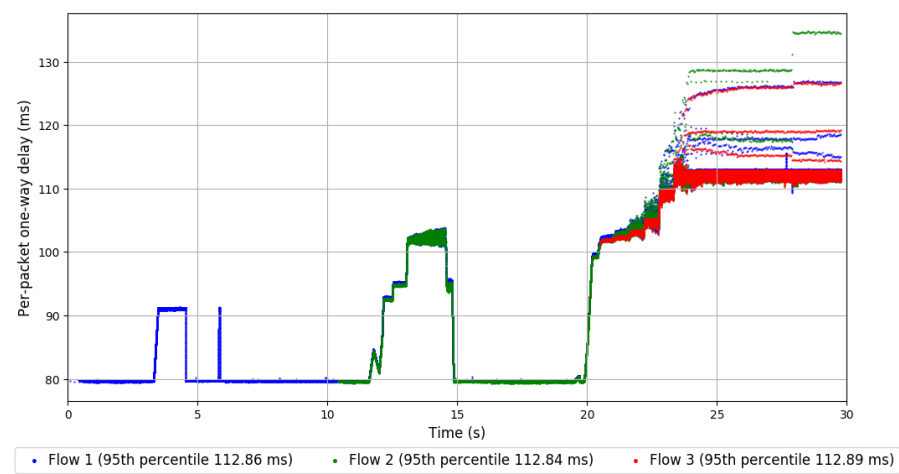
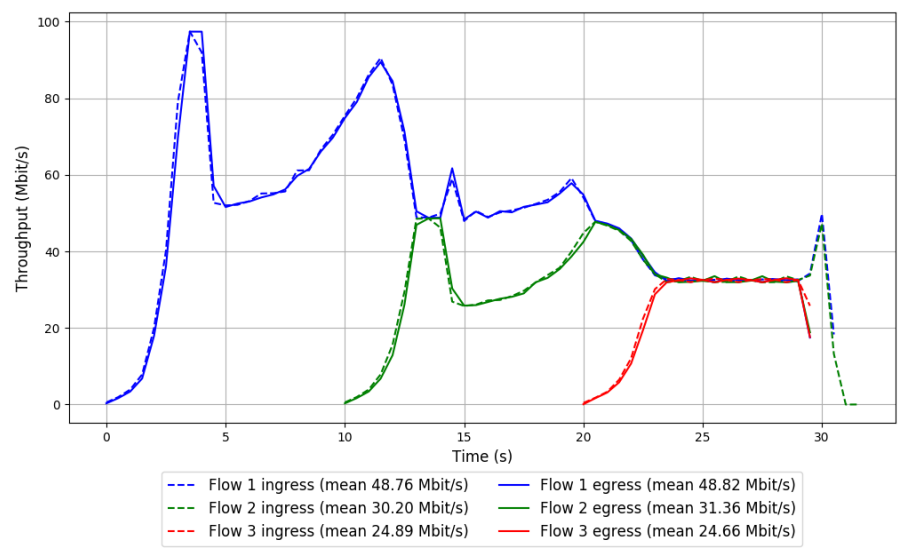


Run 8: Statistics of Vivace-loss

Start at: 2018-03-13 17:07:43
End at: 2018-03-13 17:08:13
Local clock offset: -2.975 ms
Remote clock offset: -0.692 ms

Below is generated by plot.py at 2018-03-13 22:18:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.64 Mbit/s
95th percentile per-packet one-way delay: 112.857 ms
Loss rate: 3.96%
-- Flow 1:
Average throughput: 48.82 Mbit/s
95th percentile per-packet one-way delay: 112.863 ms
Loss rate: 3.06%
-- Flow 2:
Average throughput: 31.36 Mbit/s
95th percentile per-packet one-way delay: 112.838 ms
Loss rate: 6.34%
-- Flow 3:
Average throughput: 24.66 Mbit/s
95th percentile per-packet one-way delay: 112.887 ms
Loss rate: 3.08%

Run 8: Report of Vivace-loss — Data Link

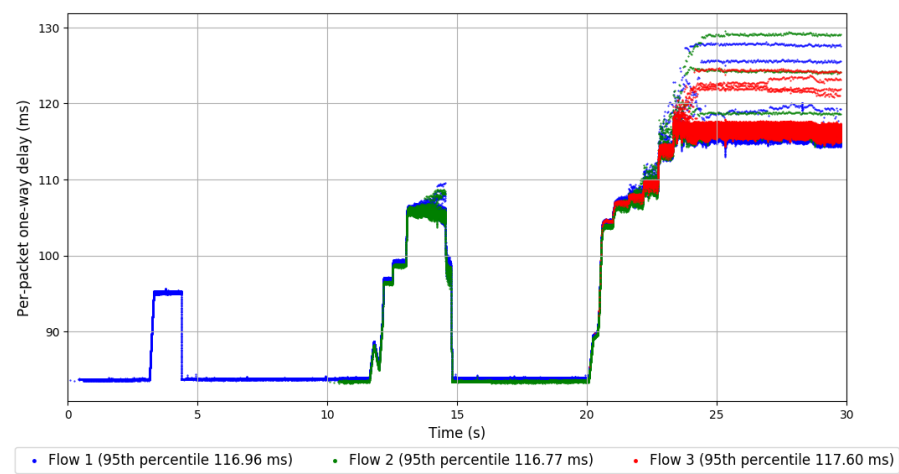
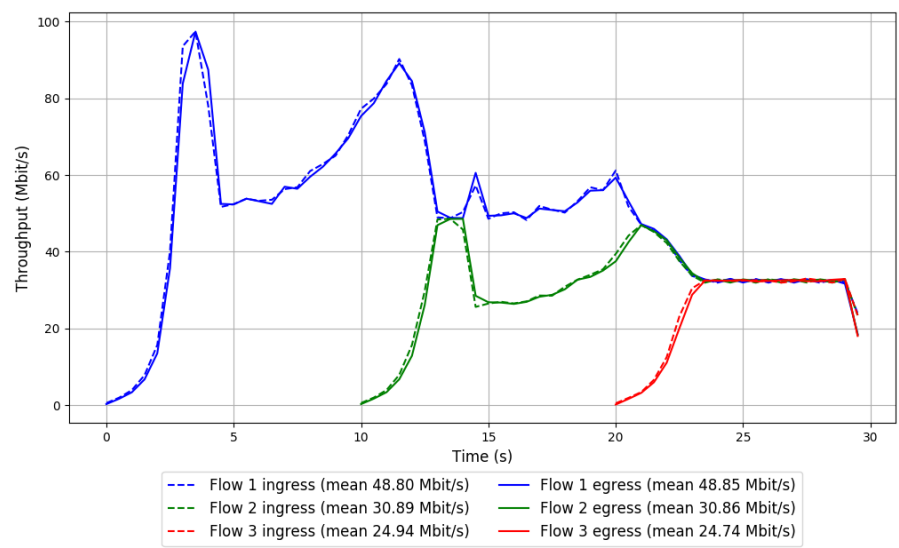


Run 9: Statistics of Vivace-loss

Start at: 2018-03-13 17:31:26
End at: 2018-03-13 17:31:56
Local clock offset: -2.945 ms
Remote clock offset: -4.806 ms

Below is generated by plot.py at 2018-03-13 22:18:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.38 Mbit/s
95th percentile per-packet one-way delay: 117.071 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 48.85 Mbit/s
95th percentile per-packet one-way delay: 116.956 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 30.86 Mbit/s
95th percentile per-packet one-way delay: 116.772 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 24.74 Mbit/s
95th percentile per-packet one-way delay: 117.597 ms
Loss rate: 2.61%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-03-13 17:54:57

End at: 2018-03-13 17:55:27

Local clock offset: -6.445 ms

Remote clock offset: 0.045 ms

Below is generated by plot.py at 2018-03-13 22:19:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.27 Mbit/s

95th percentile per-packet one-way delay: 112.508 ms

Loss rate: 4.03%

-- Flow 1:

Average throughput: 48.48 Mbit/s

95th percentile per-packet one-way delay: 112.969 ms

Loss rate: 2.86%

-- Flow 2:

Average throughput: 31.30 Mbit/s

95th percentile per-packet one-way delay: 111.957 ms

Loss rate: 1.12%

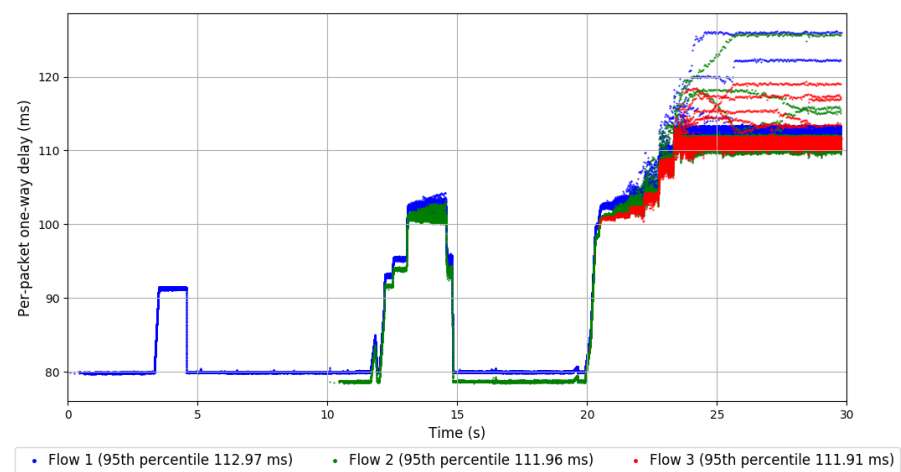
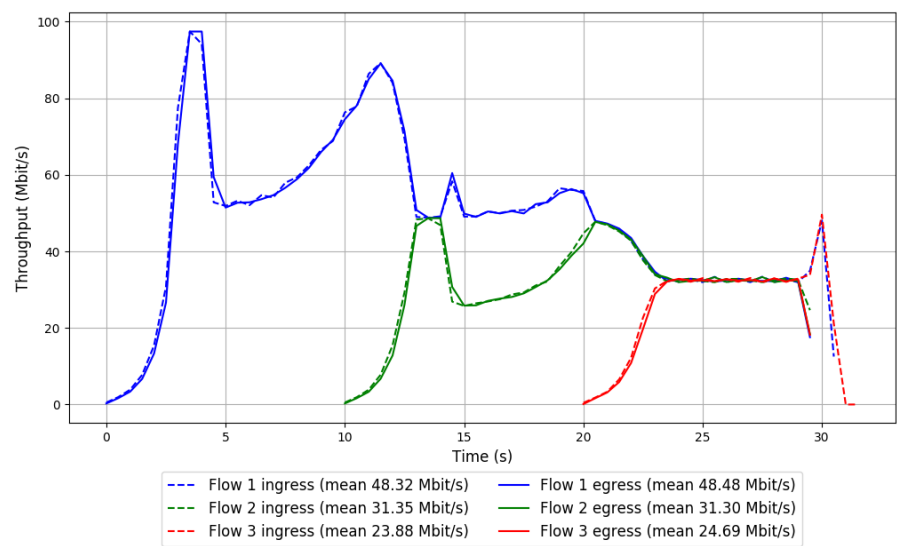
-- Flow 3:

Average throughput: 24.69 Mbit/s

95th percentile per-packet one-way delay: 111.911 ms

Loss rate: 16.41%

Run 10: Report of Vivace-loss — Data Link

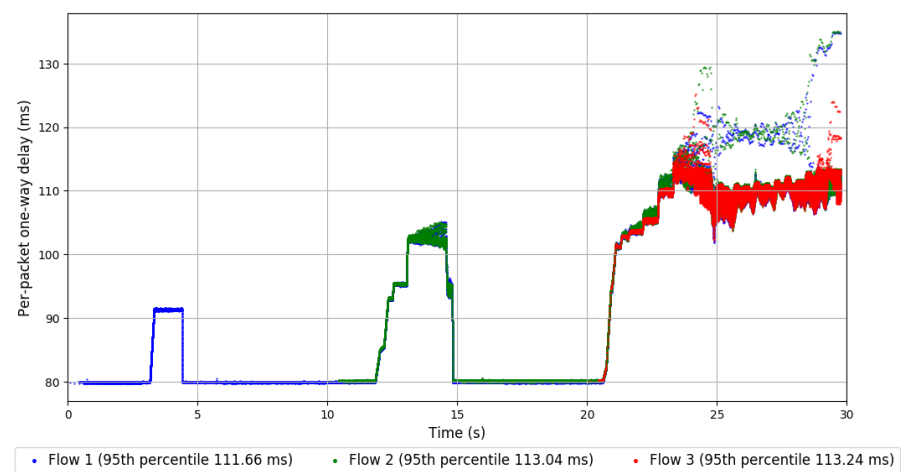
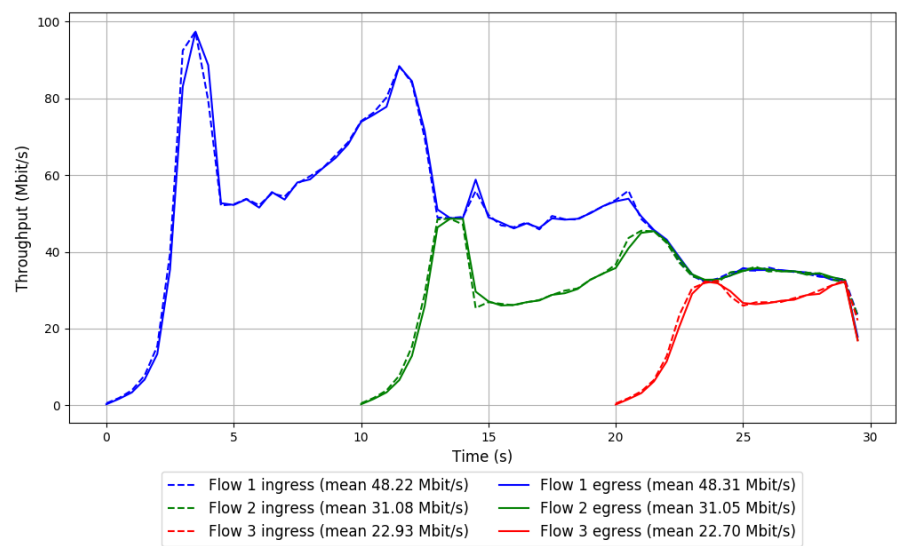


Run 1: Statistics of Vivace-LTE

Start at: 2018-03-13 14:07:07
End at: 2018-03-13 14:07:37
Local clock offset: -6.838 ms
Remote clock offset: -0.152 ms

Below is generated by plot.py at 2018-03-13 22:19:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.28 Mbit/s
95th percentile per-packet one-way delay: 112.723 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 48.31 Mbit/s
95th percentile per-packet one-way delay: 111.659 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 31.05 Mbit/s
95th percentile per-packet one-way delay: 113.038 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 22.70 Mbit/s
95th percentile per-packet one-way delay: 113.241 ms
Loss rate: 2.82%

Run 1: Report of Vivace-LTE — Data Link

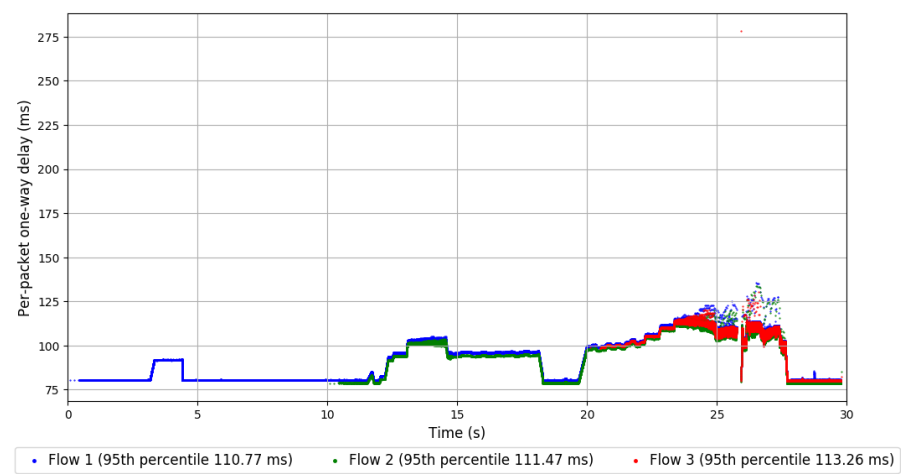
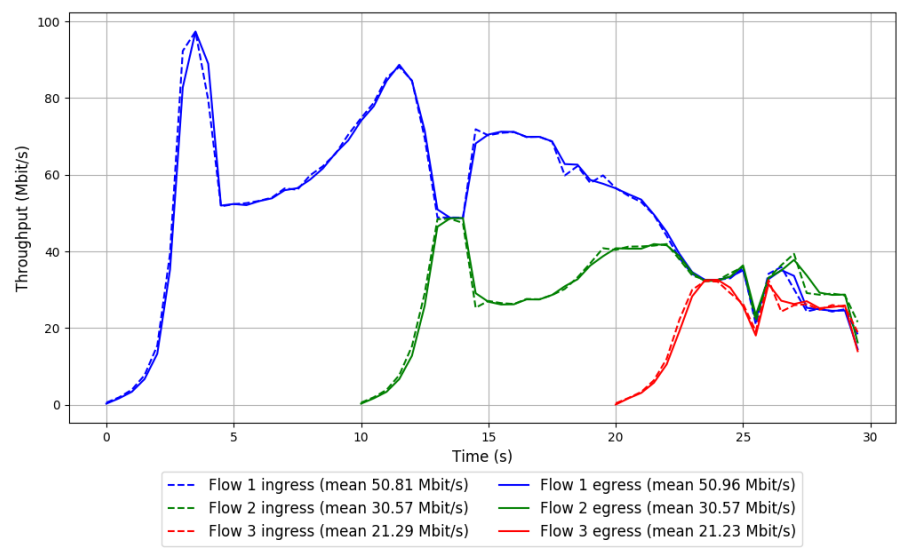


Run 2: Statistics of Vivace-LTE

Start at: 2018-03-13 14:30:38
End at: 2018-03-13 14:31:08
Local clock offset: -5.71 ms
Remote clock offset: -0.074 ms

Below is generated by plot.py at 2018-03-13 22:19:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.13 Mbit/s
95th percentile per-packet one-way delay: 111.905 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 50.96 Mbit/s
95th percentile per-packet one-way delay: 110.768 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 30.57 Mbit/s
95th percentile per-packet one-way delay: 111.472 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 21.23 Mbit/s
95th percentile per-packet one-way delay: 113.258 ms
Loss rate: 2.12%

Run 2: Report of Vivace-LTE — Data Link

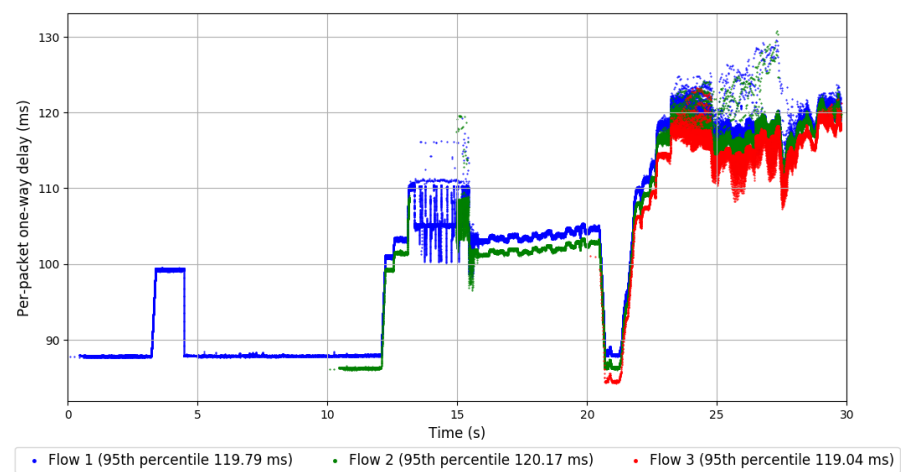
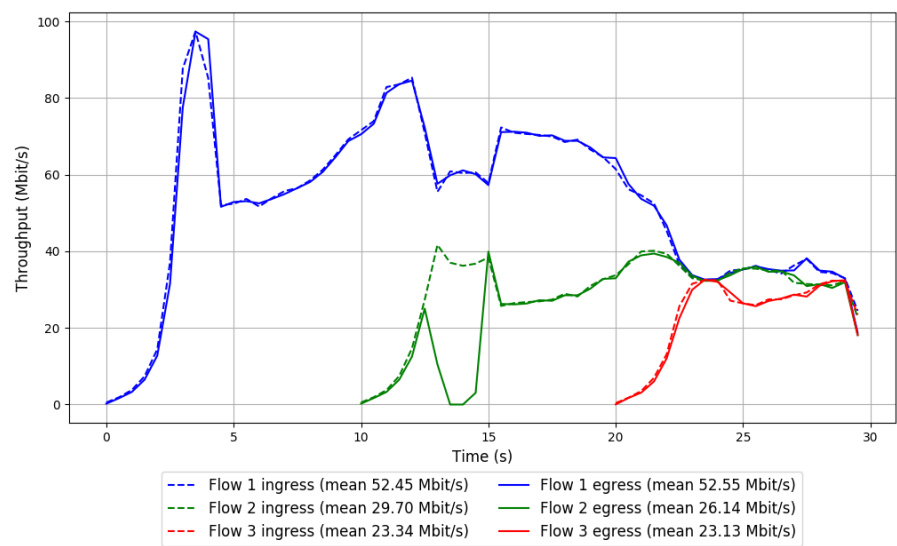


Run 3: Statistics of Vivace-LTE

Start at: 2018-03-13 14:54:14
End at: 2018-03-13 14:54:44
Local clock offset: -6.123 ms
Remote clock offset: -5.589 ms

Below is generated by plot.py at 2018-03-13 22:19:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.40 Mbit/s
95th percentile per-packet one-way delay: 119.805 ms
Loss rate: 3.70%
-- Flow 1:
Average throughput: 52.55 Mbit/s
95th percentile per-packet one-way delay: 119.794 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 26.14 Mbit/s
95th percentile per-packet one-way delay: 120.168 ms
Loss rate: 12.73%
-- Flow 3:
Average throughput: 23.13 Mbit/s
95th percentile per-packet one-way delay: 119.041 ms
Loss rate: 2.74%

Run 3: Report of Vivace-LTE — Data Link

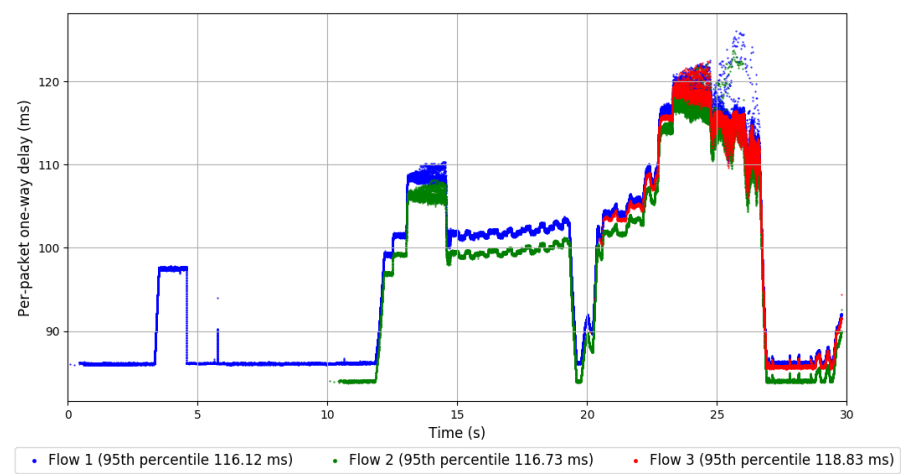
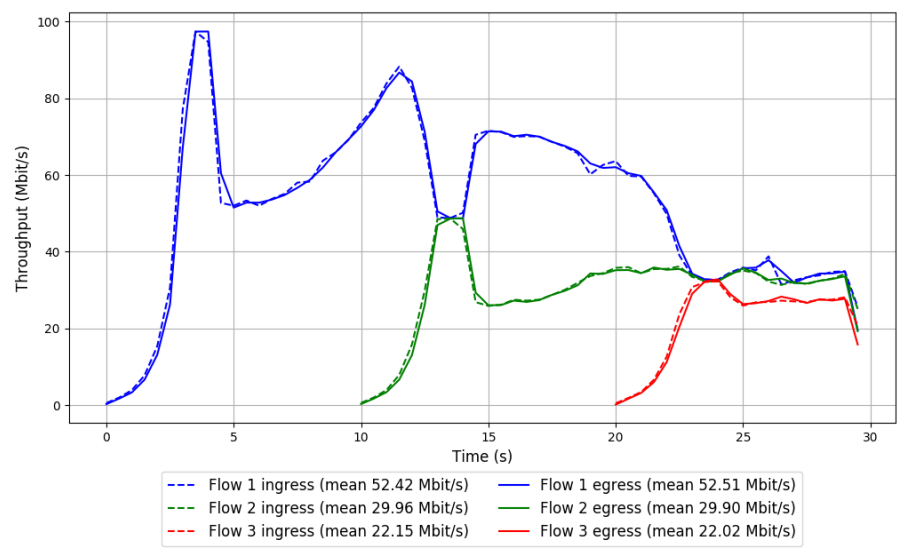


Run 4: Statistics of Vivace-LTE

Start at: 2018-03-13 15:17:57
End at: 2018-03-13 15:18:27
Local clock offset: -6.13 ms
Remote clock offset: -5.524 ms

Below is generated by plot.py at 2018-03-13 22:19:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.52 Mbit/s
95th percentile per-packet one-way delay: 116.959 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 52.51 Mbit/s
95th percentile per-packet one-way delay: 116.123 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 29.90 Mbit/s
95th percentile per-packet one-way delay: 116.730 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 22.02 Mbit/s
95th percentile per-packet one-way delay: 118.834 ms
Loss rate: 2.30%

Run 4: Report of Vivace-LTE — Data Link

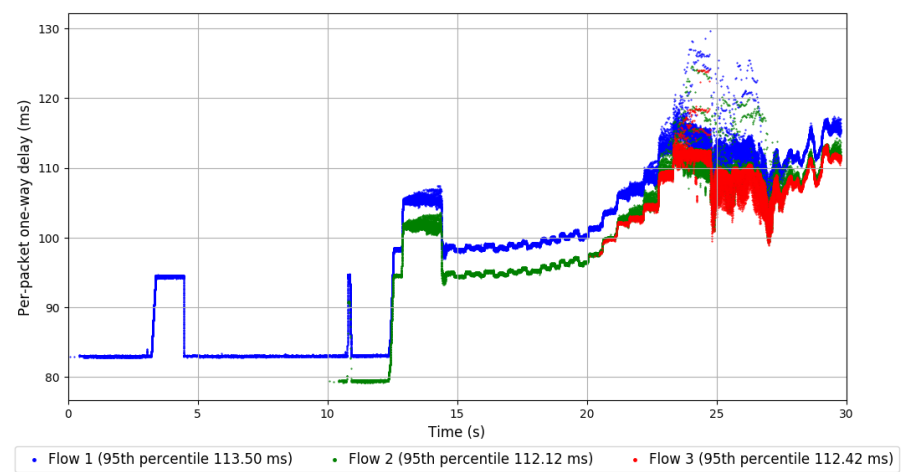
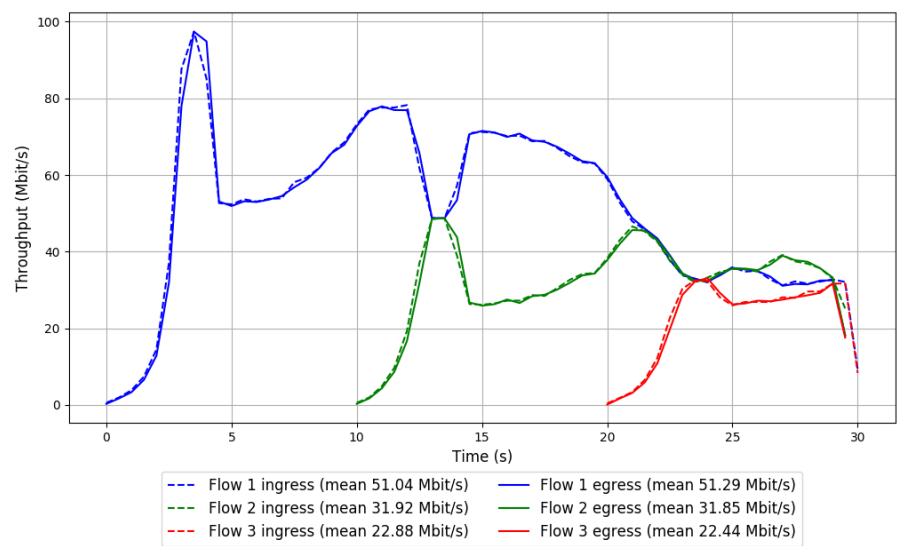


Run 5: Statistics of Vivace-LTE

Start at: 2018-03-13 15:41:31
End at: 2018-03-13 15:42:01
Local clock offset: -5.82 ms
Remote clock offset: -1.553 ms

Below is generated by plot.py at 2018-03-13 22:19:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.71 Mbit/s
95th percentile per-packet one-way delay: 112.683 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 51.29 Mbit/s
95th percentile per-packet one-way delay: 113.501 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 31.85 Mbit/s
95th percentile per-packet one-way delay: 112.116 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 22.44 Mbit/s
95th percentile per-packet one-way delay: 112.425 ms
Loss rate: 6.38%

Run 5: Report of Vivace-LTE — Data Link

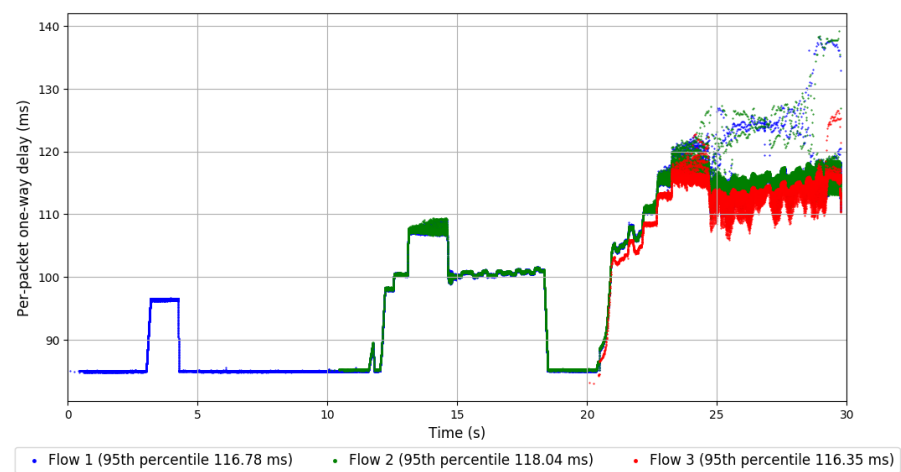
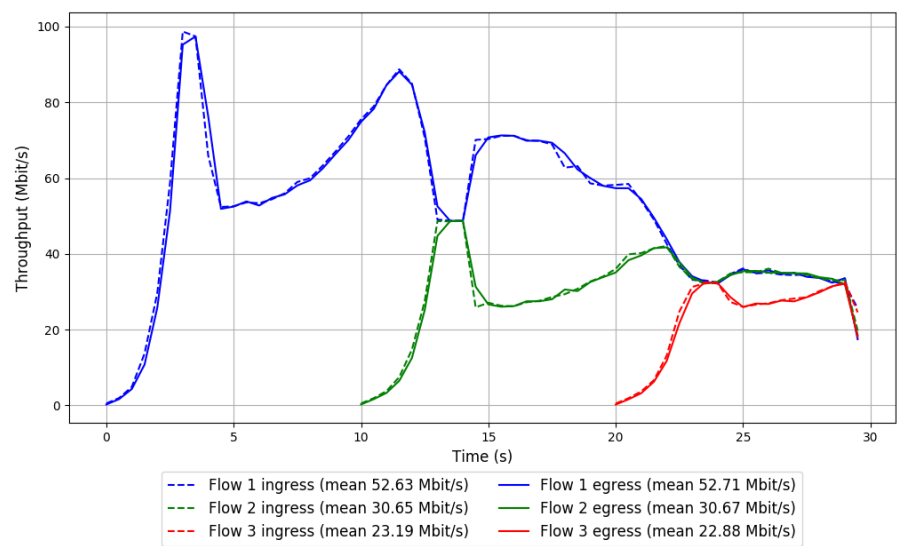


Run 6: Statistics of Vivace-LTE

Start at: 2018-03-13 16:05:04
End at: 2018-03-13 16:05:34
Local clock offset: -2.465 ms
Remote clock offset: -5.603 ms

```
# Below is generated by plot.py at 2018-03-13 22:19:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.49 Mbit/s
95th percentile per-packet one-way delay: 117.340 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 52.71 Mbit/s
95th percentile per-packet one-way delay: 116.781 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 30.67 Mbit/s
95th percentile per-packet one-way delay: 118.038 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 22.88 Mbit/s
95th percentile per-packet one-way delay: 116.348 ms
Loss rate: 3.08%
```

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-03-13 16:28:36

End at: 2018-03-13 16:29:06

Local clock offset: -2.417 ms

Remote clock offset: 0.243 ms

Below is generated by plot.py at 2018-03-13 22:19:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.85 Mbit/s

95th percentile per-packet one-way delay: 110.559 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 51.94 Mbit/s

95th percentile per-packet one-way delay: 110.433 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 30.95 Mbit/s

95th percentile per-packet one-way delay: 110.287 ms

Loss rate: 0.78%

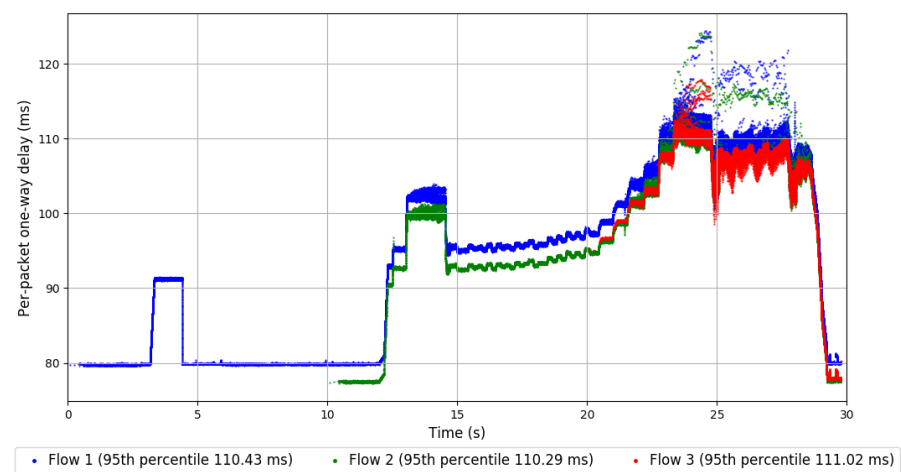
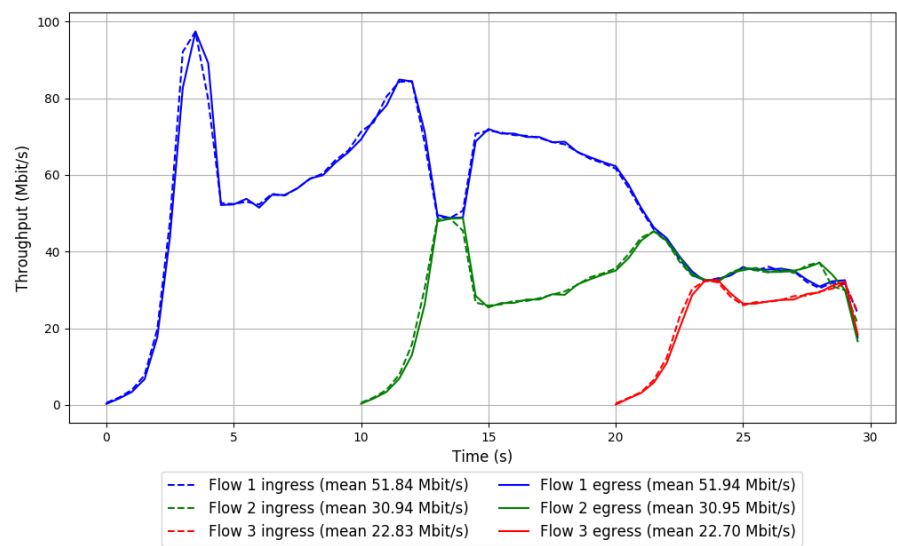
-- Flow 3:

Average throughput: 22.70 Mbit/s

95th percentile per-packet one-way delay: 111.022 ms

Loss rate: 2.40%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-03-13 16:52:05

End at: 2018-03-13 16:52:35

Local clock offset: -3.174 ms

Remote clock offset: 0.051 ms

Below is generated by plot.py at 2018-03-13 22:19:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.67 Mbit/s

95th percentile per-packet one-way delay: 111.902 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 51.93 Mbit/s

95th percentile per-packet one-way delay: 110.991 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 28.97 Mbit/s

95th percentile per-packet one-way delay: 111.683 ms

Loss rate: 1.16%

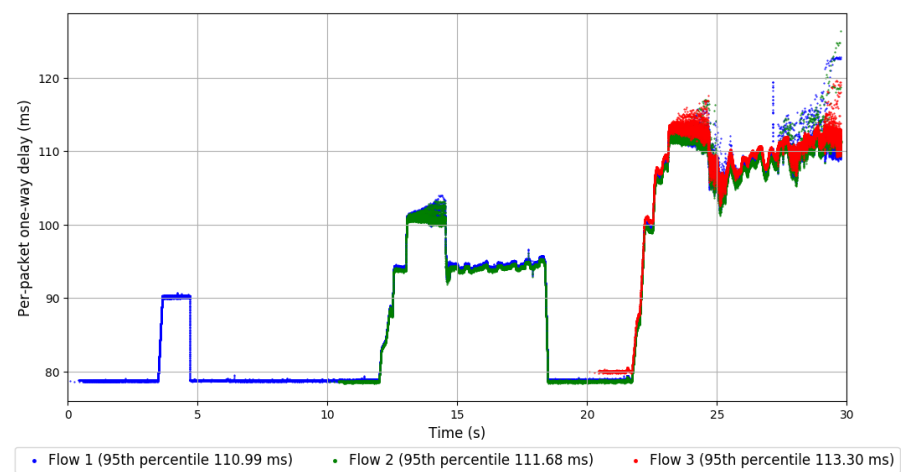
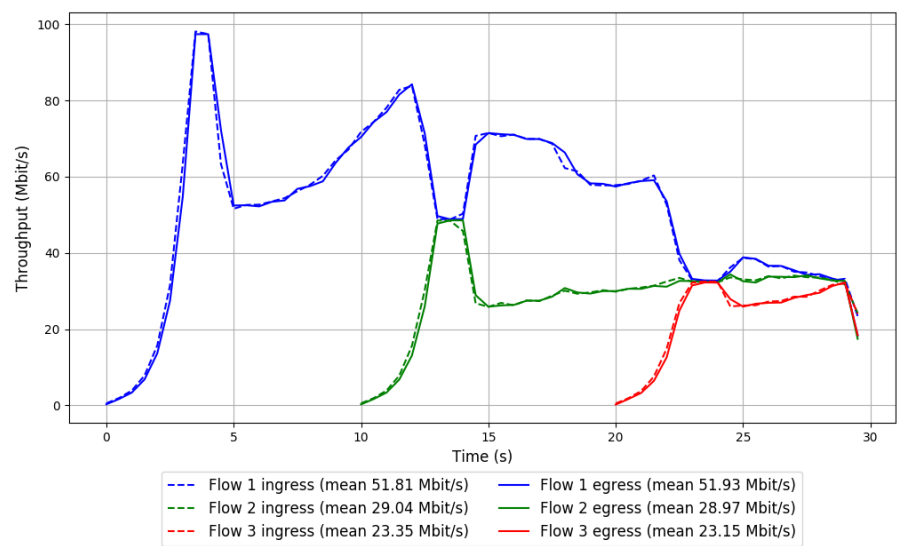
-- Flow 3:

Average throughput: 23.15 Mbit/s

95th percentile per-packet one-way delay: 113.304 ms

Loss rate: 2.70%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-03-13 17:15:38

End at: 2018-03-13 17:16:08

Local clock offset: -2.859 ms

Remote clock offset: 0.214 ms

Below is generated by plot.py at 2018-03-13 22:19:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.46 Mbit/s

95th percentile per-packet one-way delay: 111.063 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 51.65 Mbit/s

95th percentile per-packet one-way delay: 110.054 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 29.79 Mbit/s

95th percentile per-packet one-way delay: 111.573 ms

Loss rate: 1.11%

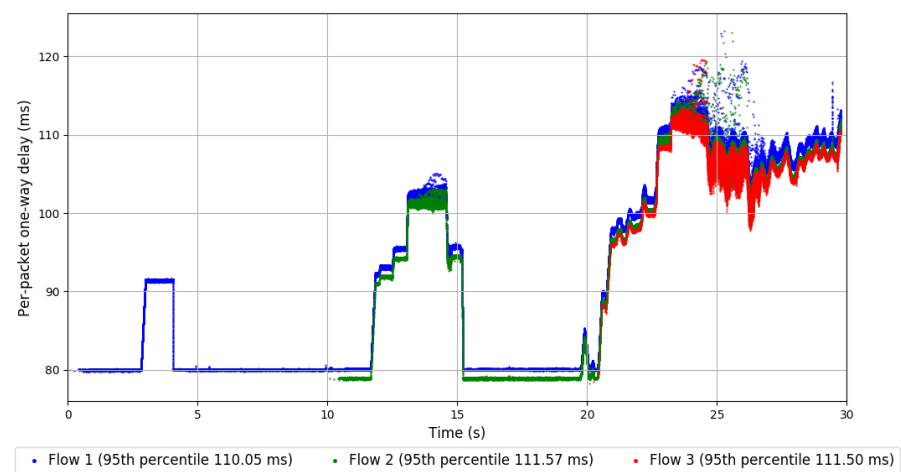
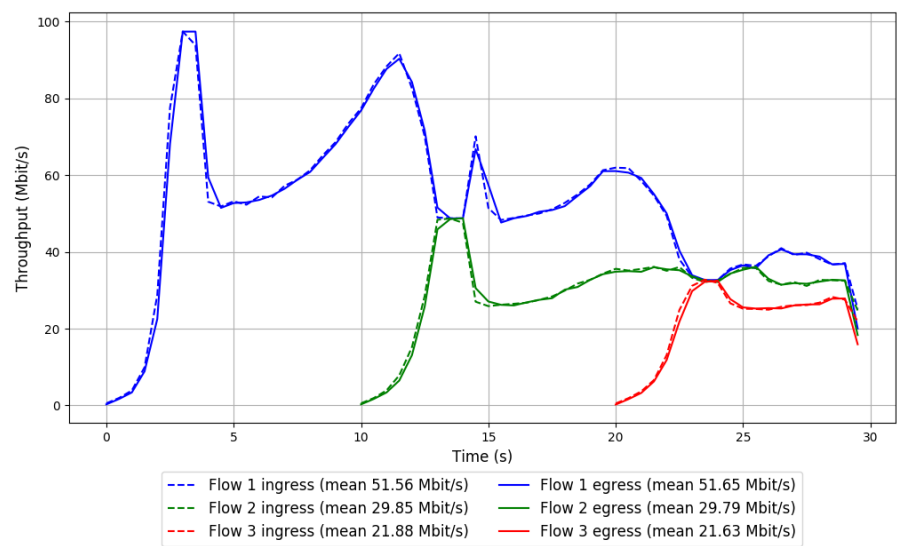
-- Flow 3:

Average throughput: 21.63 Mbit/s

95th percentile per-packet one-way delay: 111.500 ms

Loss rate: 2.77%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-03-13 17:39:18
End at: 2018-03-13 17:39:48
Local clock offset: -4.993 ms
Remote clock offset: -5.602 ms

Below is generated by plot.py at 2018-03-13 22:19:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.66 Mbit/s
95th percentile per-packet one-way delay: 117.203 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 49.61 Mbit/s
95th percentile per-packet one-way delay: 115.340 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 31.14 Mbit/s
95th percentile per-packet one-way delay: 116.908 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 22.74 Mbit/s
95th percentile per-packet one-way delay: 119.703 ms
Loss rate: 2.50%

Run 10: Report of Vivace-LTE — Data Link

