

Pantheon Report

Generated at 2018-06-01 04:54:29 (UTC).

Data path: GCE London Ethernet (*remote*) → GCE Sydney Ethernet (*local*).

Repeated the test of 16 congestion control schemes 10 times.

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

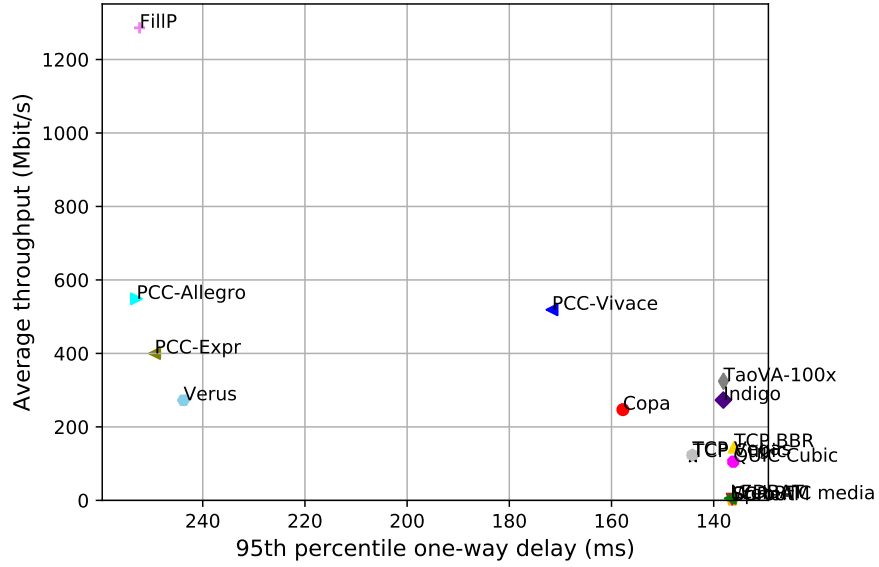
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

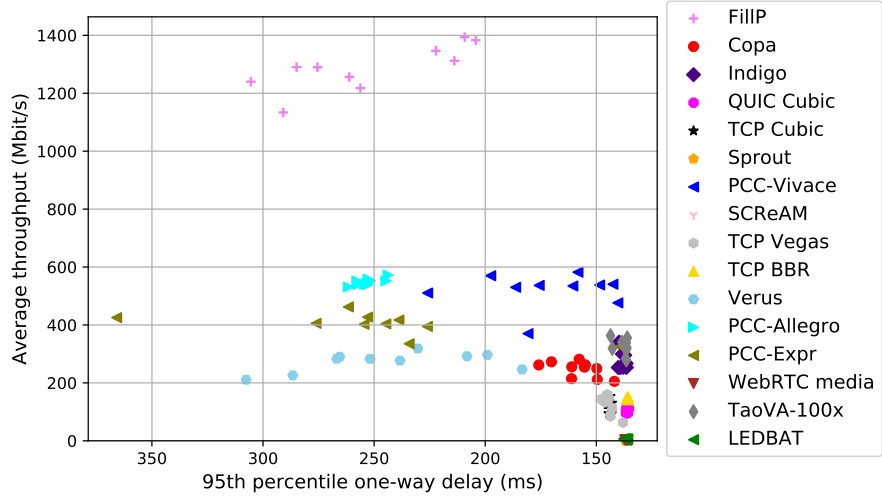
Git summary:

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

test from GCE London to GCE Sydney, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE London to GCE Sydney, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows



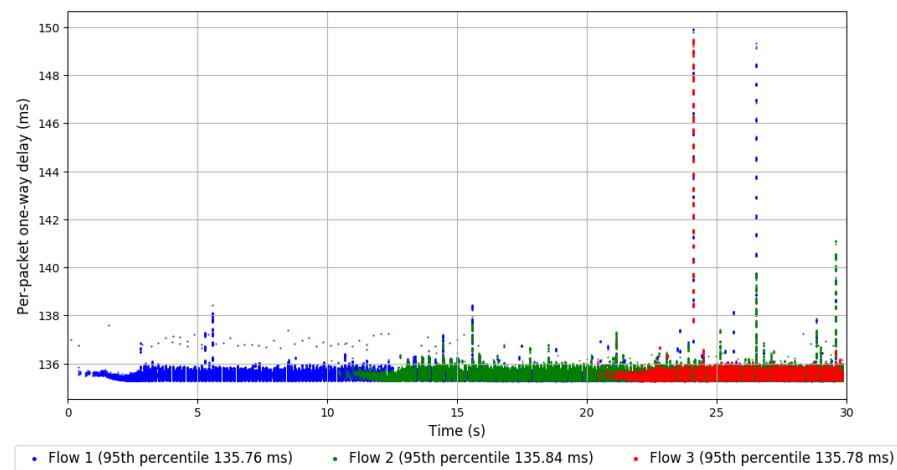
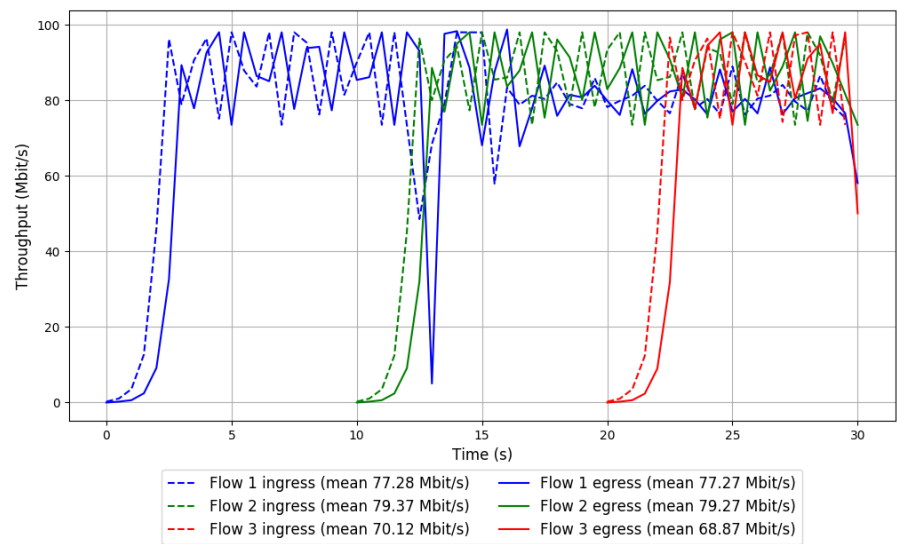
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	74.75	72.85	67.22	135.95	135.99	136.15	1.00	1.38	3.39
Copa	10	149.25	122.35	93.72	155.05	160.95	158.47	0.69	1.72	2.63
TCP Cubic	10	63.28	55.74	55.52	144.04	142.85	145.17	1.14	1.54	3.42
FillP	10	706.21	621.35	517.65	243.71	257.97	221.29	4.41	3.68	5.02
Indigo	10	142.87	137.87	120.21	137.63	138.17	139.88	0.95	1.51	3.61
LEDBAT	10	3.60	2.66	0.78	136.77	136.61	136.37	1.72	3.09	5.53
PCC-Allegro	10	489.66	66.36	45.89	253.15	251.99	251.18	3.12	2.88	4.76
PCC-Expr	10	250.53	198.50	55.46	231.46	213.46	156.55	3.21	3.05	4.08
QUIC Cubic	10	58.21	52.81	36.59	135.99	136.03	136.07	1.23	1.60	2.40
SCReAM	10	0.22	0.22	0.22	136.21	136.39	136.13	0.89	1.43	2.55
Sprout	10	0.16	0.19	0.21	136.08	136.11	136.22	0.91	0.76	2.10
TaoVA-100x	10	189.57	165.18	77.39	137.62	138.06	140.45	0.84	1.11	3.45
TCP Vegas	10	68.32	61.08	45.98	143.11	143.28	143.28	0.98	1.54	3.65
Verus	10	163.72	131.59	68.17	220.91	251.00	222.75	1.58	4.45	4.39
PCC-Vivace	10	292.64	279.71	126.90	182.45	165.20	190.26	1.63	1.72	5.40
WebRTC media	10	1.76	1.11	0.37	136.34	136.04	136.10	1.53	2.02	3.16

Run 1: Statistics of TCP BBR

Start at: 2018-05-31 22:41:55
End at: 2018-05-31 22:42:25
Local clock offset: -0.578 ms
Remote clock offset: -0.329 ms

Below is generated by plot.py at 2018-06-01 02:52:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 152.31 Mbit/s
95th percentile per-packet one-way delay: 135.796 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 77.27 Mbit/s
95th percentile per-packet one-way delay: 135.760 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 79.27 Mbit/s
95th percentile per-packet one-way delay: 135.842 ms
Loss rate: 1.50%
-- Flow 3:
Average throughput: 68.87 Mbit/s
95th percentile per-packet one-way delay: 135.777 ms
Loss rate: 3.47%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-05-31 23:07:26

End at: 2018-05-31 23:07:56

Local clock offset: -0.137 ms

Remote clock offset: -0.22 ms

Below is generated by plot.py at 2018-06-01 02:52:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 143.74 Mbit/s

95th percentile per-packet one-way delay: 136.224 ms

Loss rate: 1.63%

-- Flow 1:

Average throughput: 74.00 Mbit/s

95th percentile per-packet one-way delay: 136.162 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 71.32 Mbit/s

95th percentile per-packet one-way delay: 136.174 ms

Loss rate: 1.62%

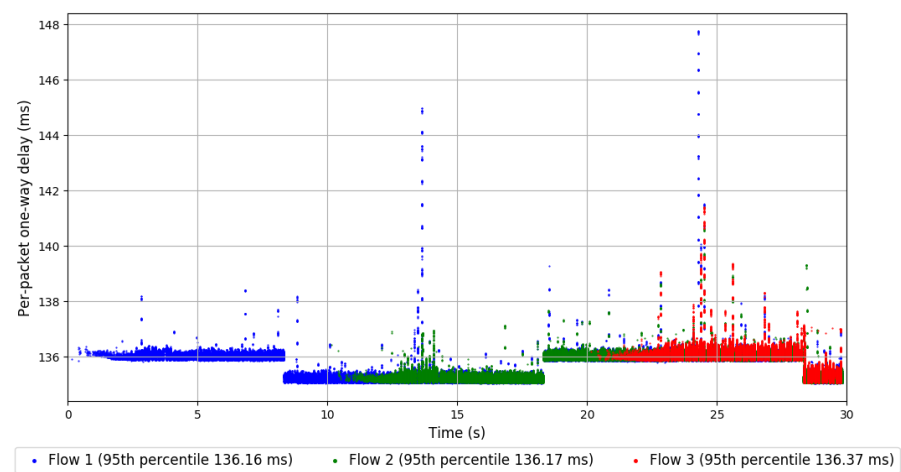
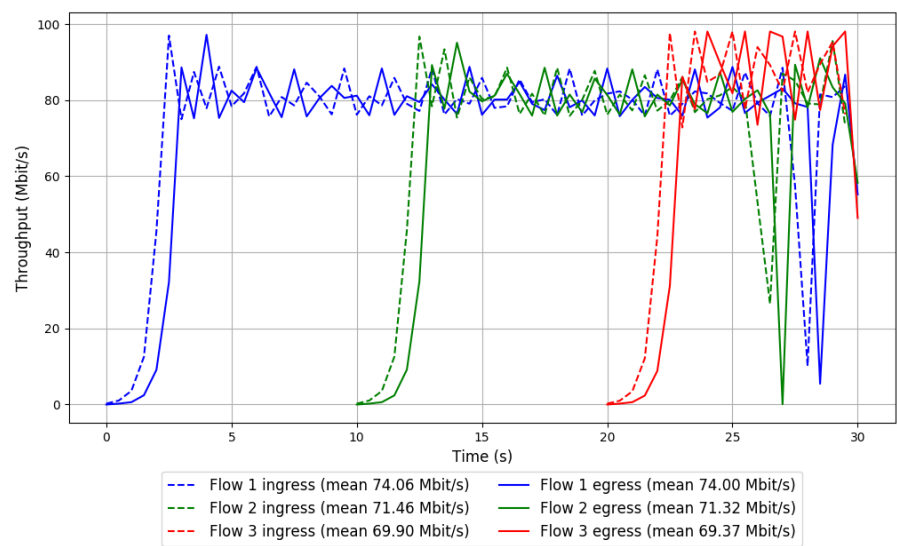
-- Flow 3:

Average throughput: 69.37 Mbit/s

95th percentile per-packet one-way delay: 136.369 ms

Loss rate: 3.54%

Run 2: Report of TCP BBR — Data Link

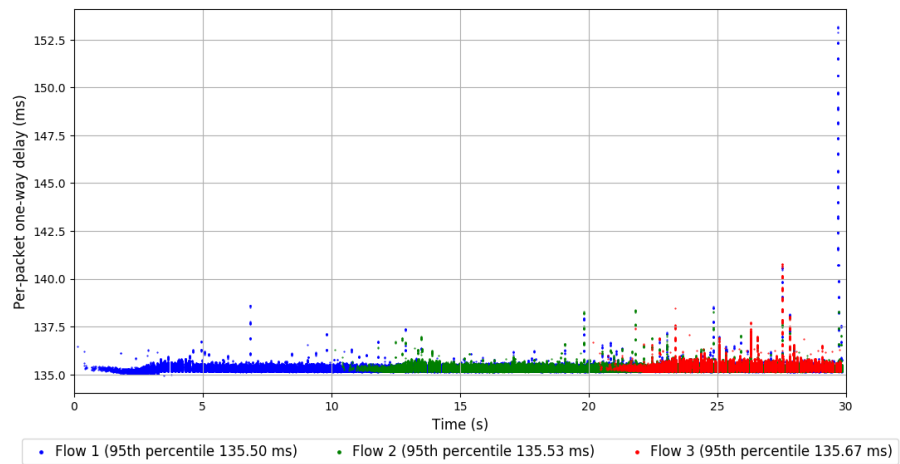
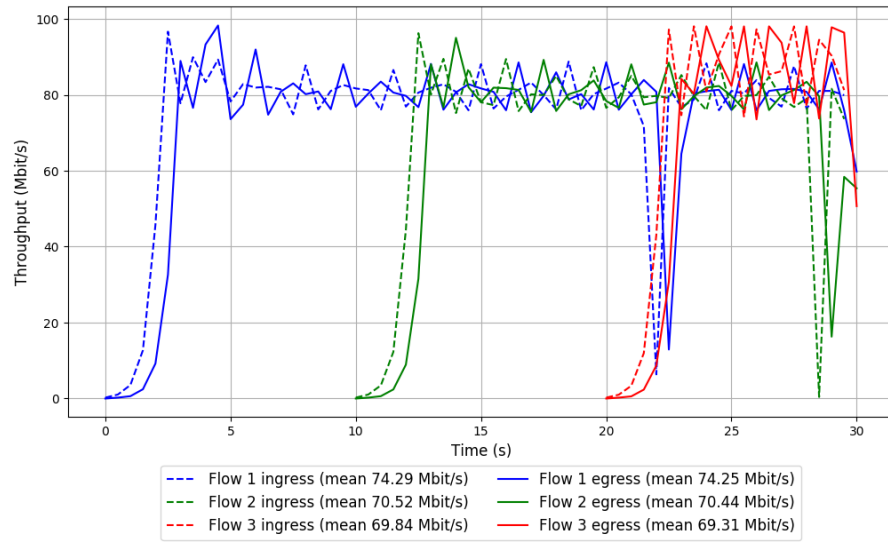


Run 3: Statistics of TCP BBR

Start at: 2018-05-31 23:32:51
End at: 2018-05-31 23:33:21
Local clock offset: -0.139 ms
Remote clock offset: -0.335 ms

Below is generated by plot.py at 2018-06-01 02:52:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 143.41 Mbit/s
95th percentile per-packet one-way delay: 135.552 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 74.25 Mbit/s
95th percentile per-packet one-way delay: 135.502 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 70.44 Mbit/s
95th percentile per-packet one-way delay: 135.527 ms
Loss rate: 1.48%
-- Flow 3:
Average throughput: 69.31 Mbit/s
95th percentile per-packet one-way delay: 135.668 ms
Loss rate: 3.54%

Run 3: Report of TCP BBR — Data Link

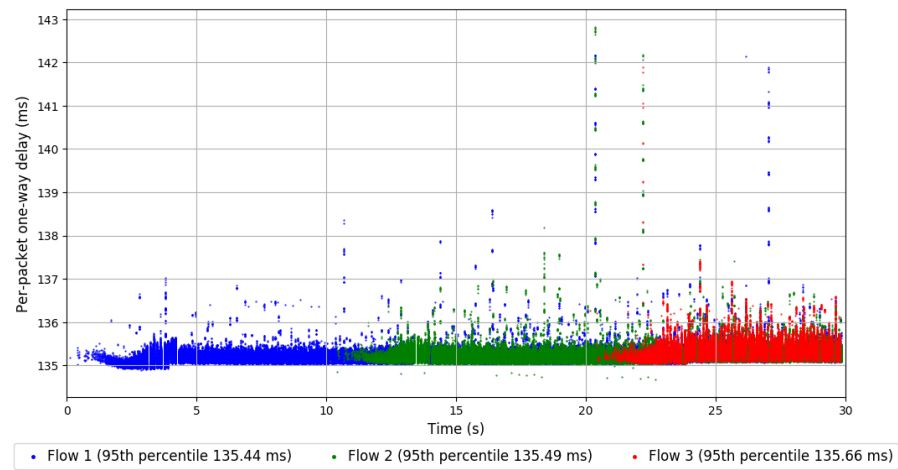
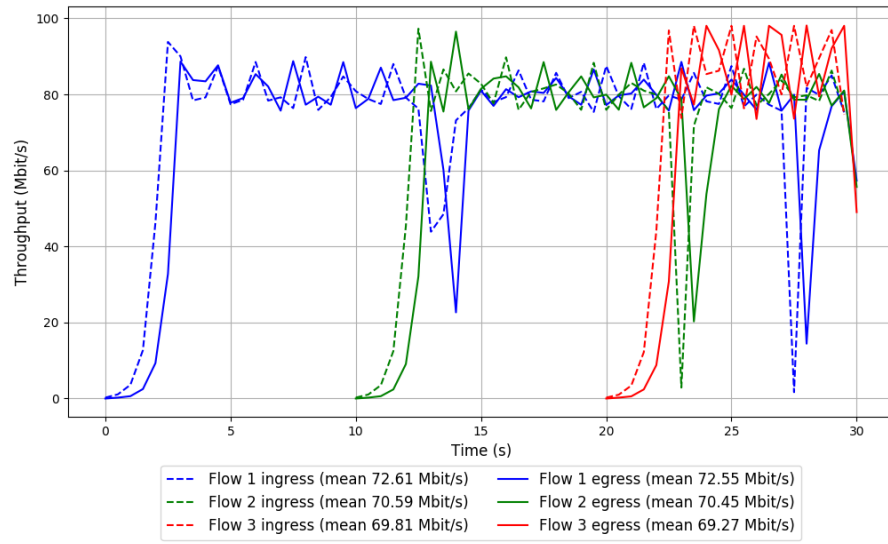


Run 4: Statistics of TCP BBR

Start at: 2018-05-31 23:58:20
End at: 2018-05-31 23:58:50
Local clock offset: 0.131 ms
Remote clock offset: -0.019 ms

Below is generated by plot.py at 2018-06-01 02:52:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 141.68 Mbit/s
95th percentile per-packet one-way delay: 135.518 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 72.55 Mbit/s
95th percentile per-packet one-way delay: 135.439 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 70.45 Mbit/s
95th percentile per-packet one-way delay: 135.488 ms
Loss rate: 1.59%
-- Flow 3:
Average throughput: 69.27 Mbit/s
95th percentile per-packet one-way delay: 135.665 ms
Loss rate: 3.55%

Run 4: Report of TCP BBR — Data Link

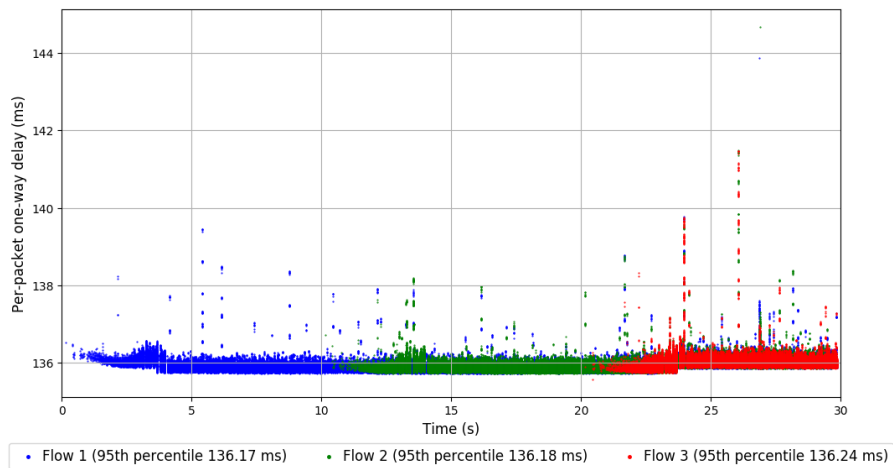
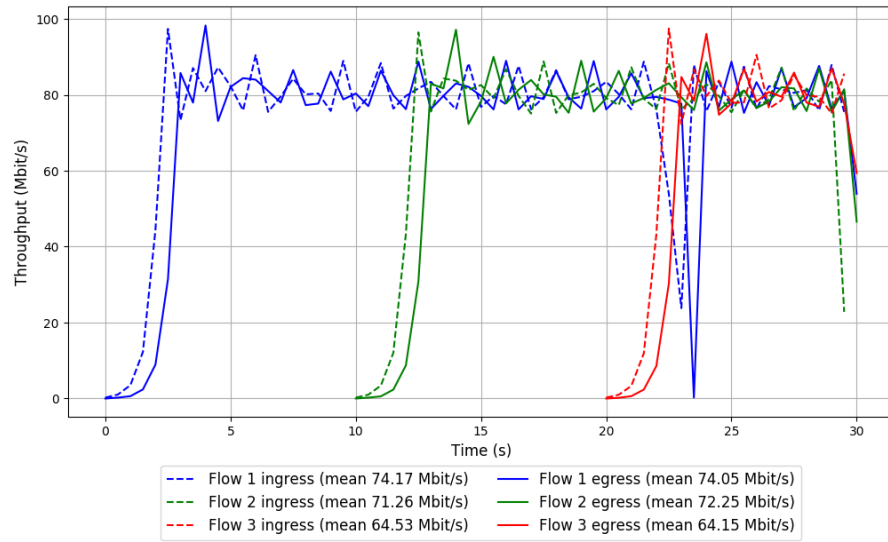


Run 5: Statistics of TCP BBR

Start at: 2018-06-01 00:23:31
End at: 2018-06-01 00:24:01
Local clock offset: 0.083 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2018-06-01 02:52:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 142.74 Mbit/s
95th percentile per-packet one-way delay: 136.189 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 74.05 Mbit/s
95th percentile per-packet one-way delay: 136.173 ms
Loss rate: 1.04%
-- Flow 2:
Average throughput: 72.25 Mbit/s
95th percentile per-packet one-way delay: 136.178 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 64.15 Mbit/s
95th percentile per-packet one-way delay: 136.242 ms
Loss rate: 3.31%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-06-01 00:49:04

End at: 2018-06-01 00:49:34

Local clock offset: 0.331 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-06-01 02:52:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 144.65 Mbit/s

95th percentile per-packet one-way delay: 136.182 ms

Loss rate: 1.47%

-- Flow 1:

Average throughput: 73.66 Mbit/s

95th percentile per-packet one-way delay: 136.049 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 74.62 Mbit/s

95th percentile per-packet one-way delay: 136.258 ms

Loss rate: 1.43%

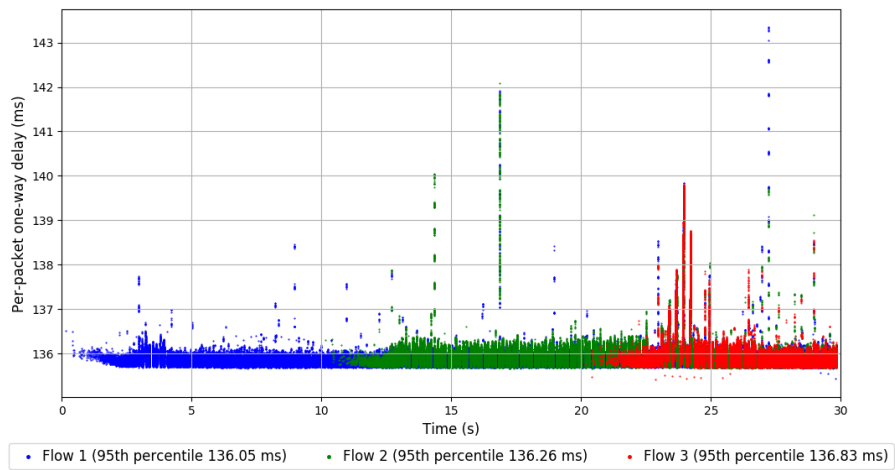
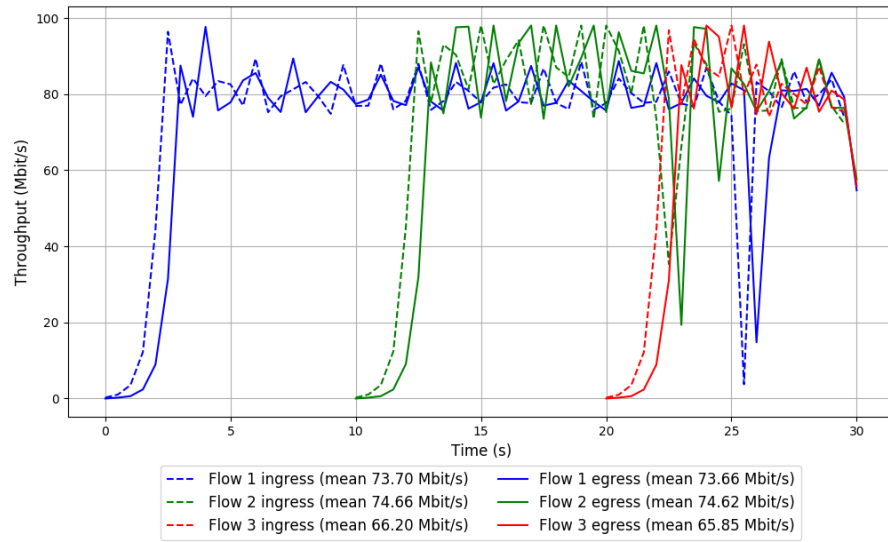
-- Flow 3:

Average throughput: 65.85 Mbit/s

95th percentile per-packet one-way delay: 136.833 ms

Loss rate: 3.25%

Run 6: Report of TCP BBR — Data Link

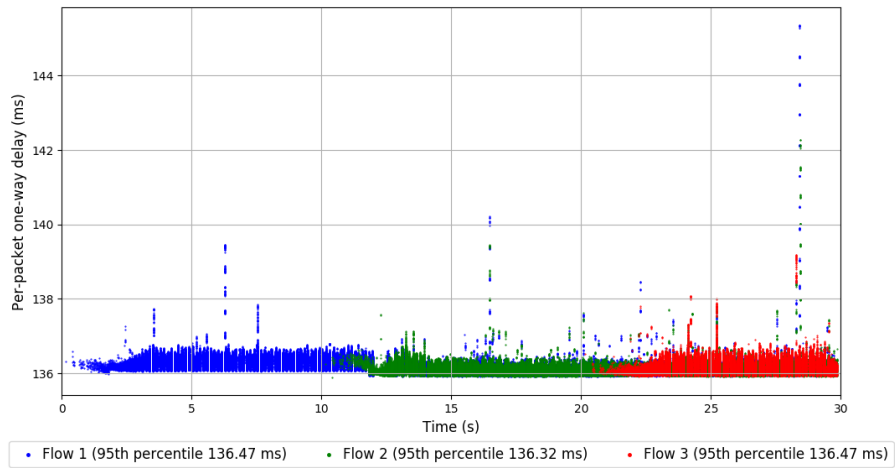
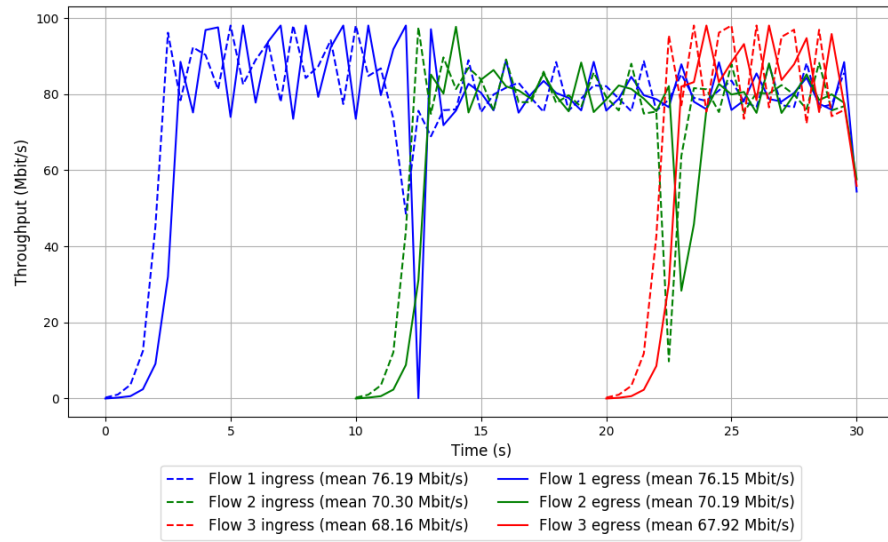


Run 7: Statistics of TCP BBR

Start at: 2018-06-01 01:14:13
End at: 2018-06-01 01:14:43
Local clock offset: -0.085 ms
Remote clock offset: -0.351 ms

Below is generated by plot.py at 2018-06-01 02:52:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 144.80 Mbit/s
95th percentile per-packet one-way delay: 136.445 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 76.15 Mbit/s
95th percentile per-packet one-way delay: 136.468 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 70.19 Mbit/s
95th percentile per-packet one-way delay: 136.324 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 67.92 Mbit/s
95th percentile per-packet one-way delay: 136.466 ms
Loss rate: 3.08%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-06-01 01:39:21

End at: 2018-06-01 01:39:51

Local clock offset: -0.282 ms

Remote clock offset: 0.049 ms

Below is generated by plot.py at 2018-06-01 02:52:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 147.09 Mbit/s

95th percentile per-packet one-way delay: 135.960 ms

Loss rate: 1.57%

-- Flow 1:

Average throughput: 75.23 Mbit/s

95th percentile per-packet one-way delay: 135.853 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 74.69 Mbit/s

95th percentile per-packet one-way delay: 135.979 ms

Loss rate: 1.43%

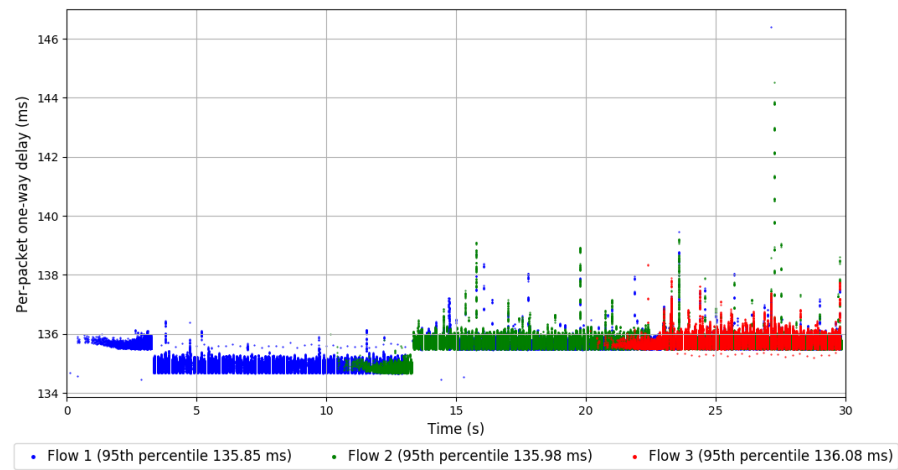
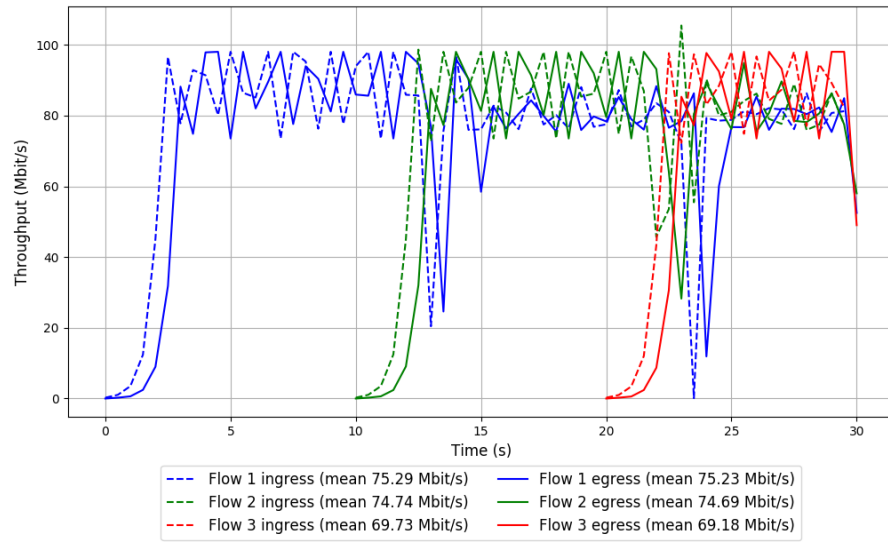
-- Flow 3:

Average throughput: 69.18 Mbit/s

95th percentile per-packet one-way delay: 136.084 ms

Loss rate: 3.55%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-06-01 02:04:38

End at: 2018-06-01 02:05:08

Local clock offset: 0.113 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2018-06-01 02:54:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 145.53 Mbit/s

95th percentile per-packet one-way delay: 136.315 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 75.39 Mbit/s

95th percentile per-packet one-way delay: 136.269 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 74.59 Mbit/s

95th percentile per-packet one-way delay: 136.357 ms

Loss rate: 1.51%

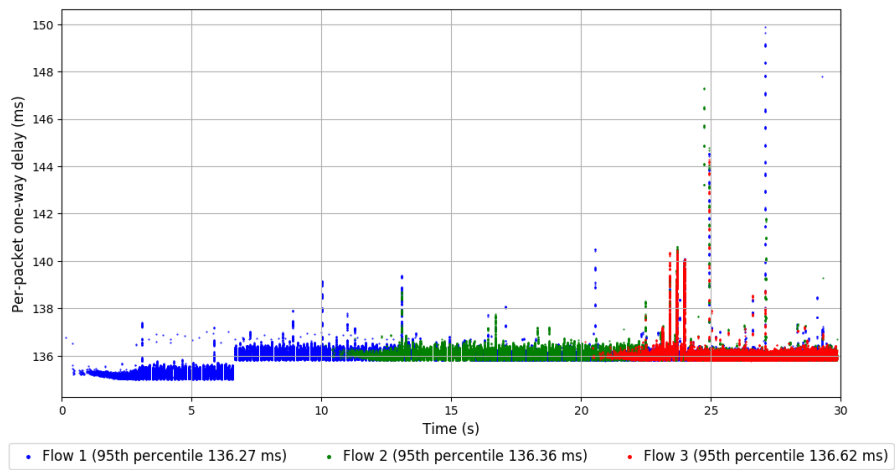
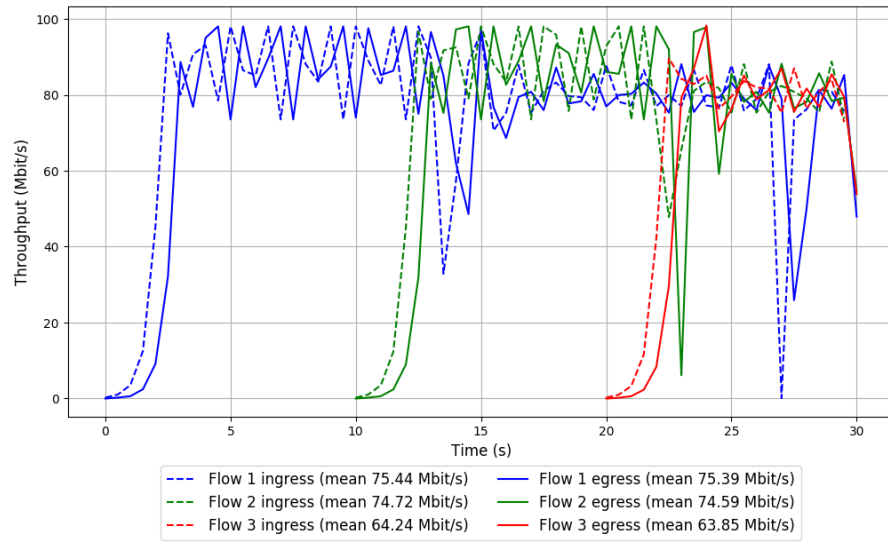
-- Flow 3:

Average throughput: 63.85 Mbit/s

95th percentile per-packet one-way delay: 136.625 ms

Loss rate: 3.31%

Run 9: Report of TCP BBR — Data Link

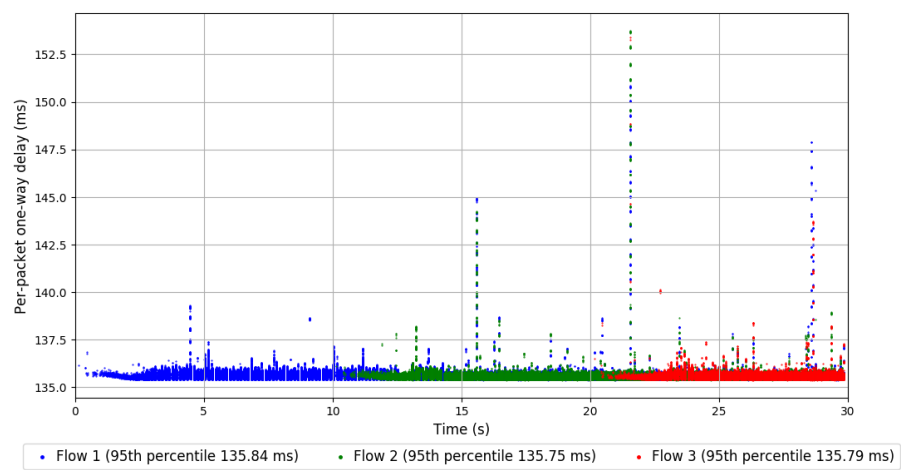
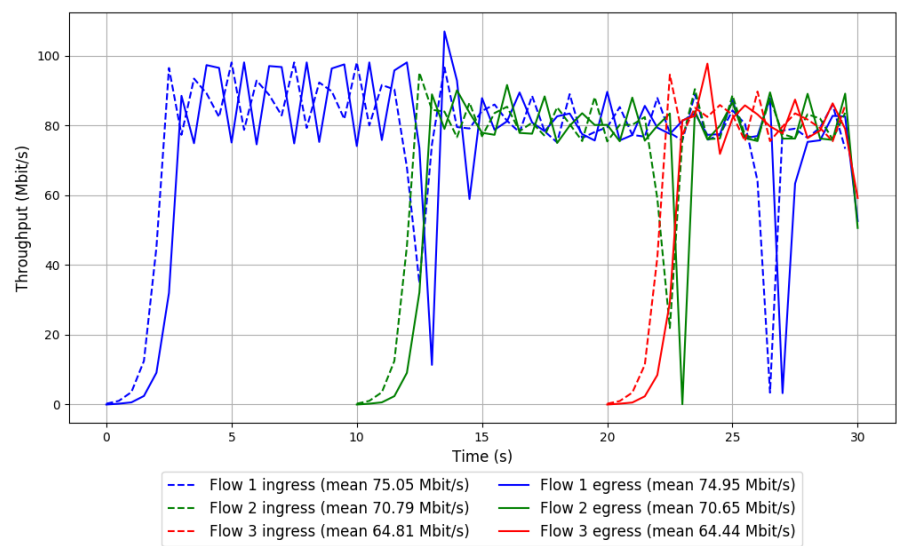


Run 10: Statistics of TCP BBR

Start at: 2018-06-01 02:29:56
End at: 2018-06-01 02:30:26
Local clock offset: -0.317 ms
Remote clock offset: -0.013 ms

Below is generated by plot.py at 2018-06-01 02:54:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 142.73 Mbit/s
95th percentile per-packet one-way delay: 135.811 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 74.95 Mbit/s
95th percentile per-packet one-way delay: 135.839 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 70.65 Mbit/s
95th percentile per-packet one-way delay: 135.753 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 64.44 Mbit/s
95th percentile per-packet one-way delay: 135.788 ms
Loss rate: 3.28%

Run 10: Report of TCP BBR — Data Link

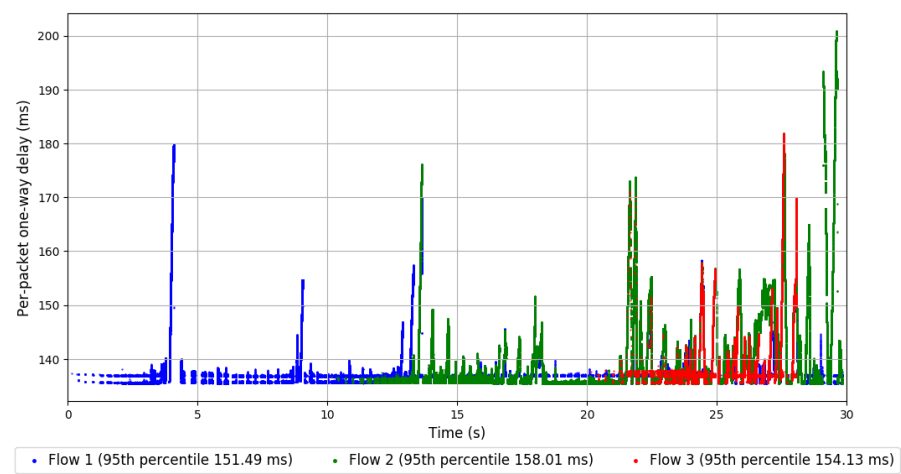
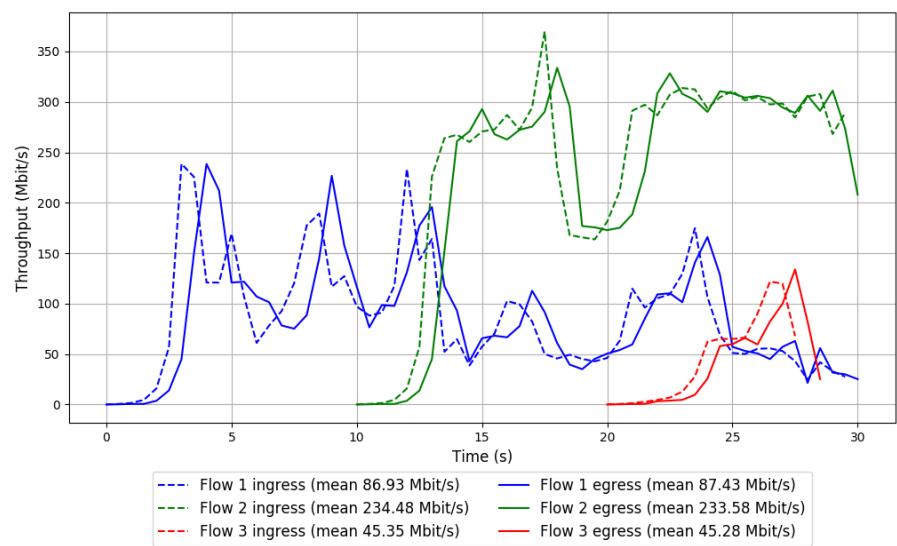


Run 1: Statistics of Copa

Start at: 2018-05-31 22:30:38
End at: 2018-05-31 22:31:08
Local clock offset: -0.327 ms
Remote clock offset: -0.328 ms

Below is generated by plot.py at 2018-06-01 02:59:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 254.34 Mbit/s
95th percentile per-packet one-way delay: 155.363 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 87.43 Mbit/s
95th percentile per-packet one-way delay: 151.487 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 233.58 Mbit/s
95th percentile per-packet one-way delay: 158.011 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 45.28 Mbit/s
95th percentile per-packet one-way delay: 154.131 ms
Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-05-31 22:56:00

End at: 2018-05-31 22:56:30

Local clock offset: -0.439 ms

Remote clock offset: 0.087 ms

Below is generated by plot.py at 2018-06-01 03:00:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 261.96 Mbit/s

95th percentile per-packet one-way delay: 175.908 ms

Loss rate: 1.20%

-- Flow 1:

Average throughput: 262.34 Mbit/s

95th percentile per-packet one-way delay: 190.233 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 144.59 Mbit/s

95th percentile per-packet one-way delay: 152.744 ms

Loss rate: 1.56%

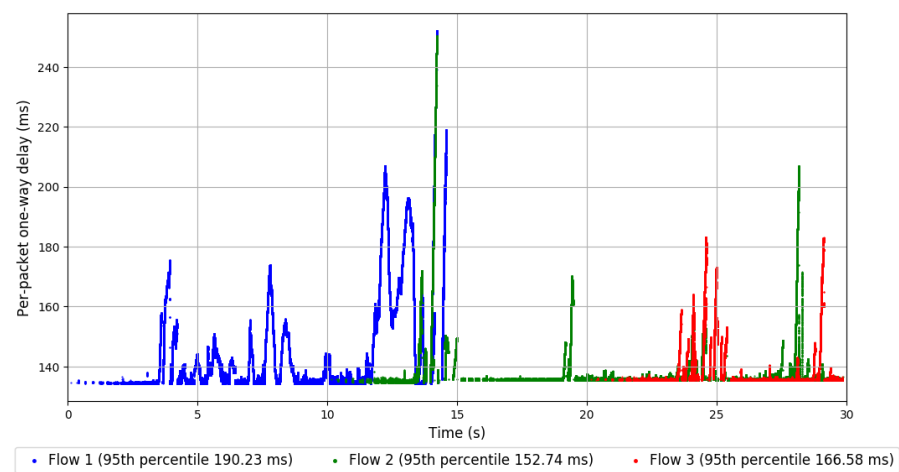
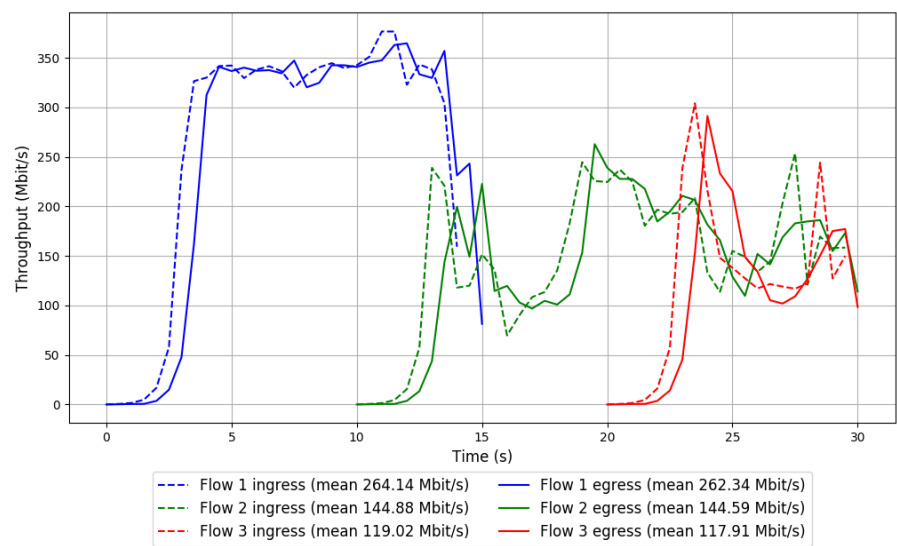
-- Flow 3:

Average throughput: 117.91 Mbit/s

95th percentile per-packet one-way delay: 166.582 ms

Loss rate: 3.63%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-05-31 23:21:36

End at: 2018-05-31 23:22:06

Local clock offset: -0.051 ms

Remote clock offset: 0.142 ms

Below is generated by plot.py at 2018-06-01 03:00:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 272.79 Mbit/s

95th percentile per-packet one-way delay: 170.223 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 157.15 Mbit/s

95th percentile per-packet one-way delay: 162.601 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 114.63 Mbit/s

95th percentile per-packet one-way delay: 182.402 ms

Loss rate: 0.23%

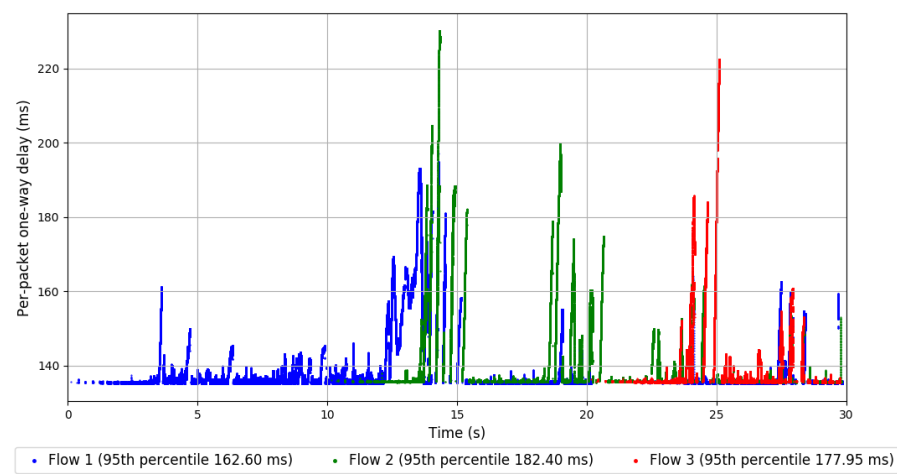
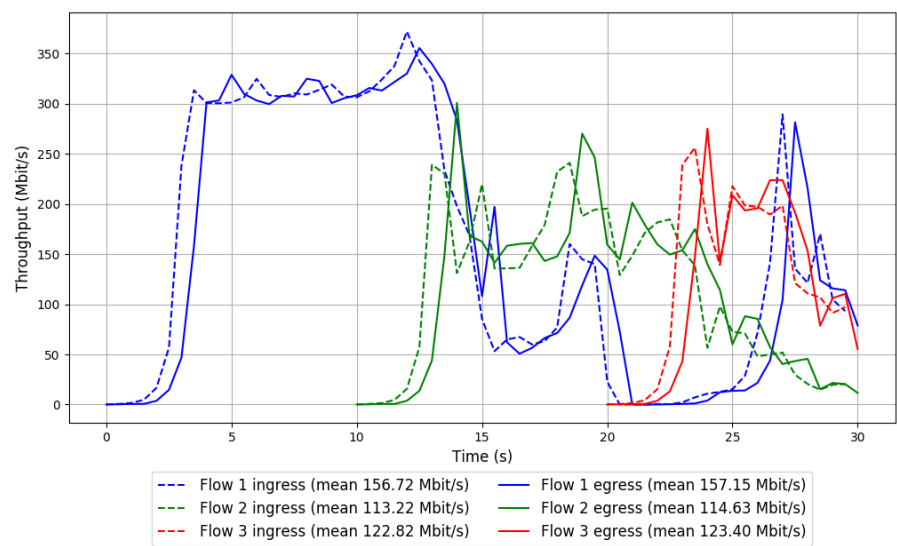
-- Flow 3:

Average throughput: 123.40 Mbit/s

95th percentile per-packet one-way delay: 177.954 ms

Loss rate: 2.30%

Run 3: Report of Copa — Data Link

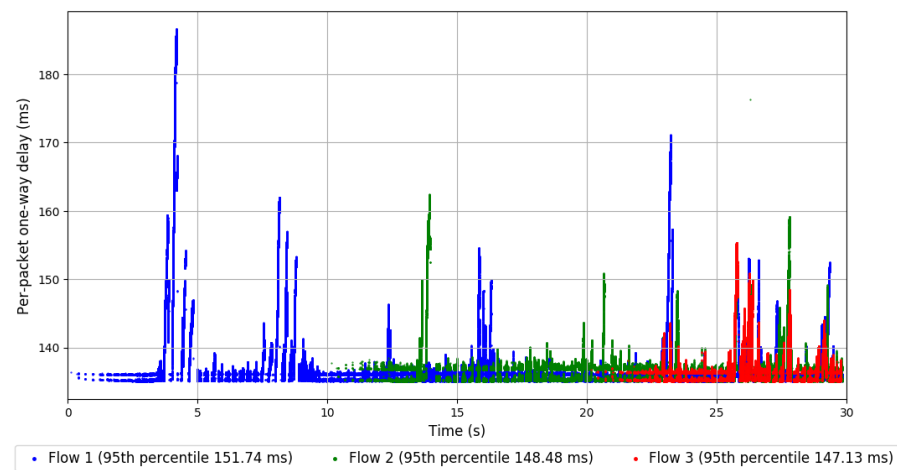
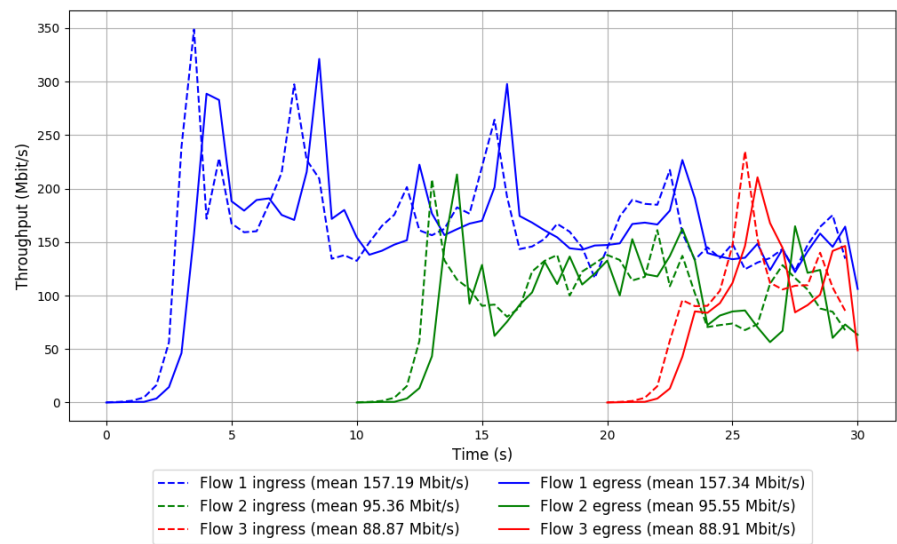


Run 4: Statistics of Copa

Start at: 2018-05-31 23:47:02
End at: 2018-05-31 23:47:32
Local clock offset: 0.145 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-06-01 03:00:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 249.60 Mbit/s
95th percentile per-packet one-way delay: 149.798 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 157.34 Mbit/s
95th percentile per-packet one-way delay: 151.743 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 95.55 Mbit/s
95th percentile per-packet one-way delay: 148.484 ms
Loss rate: 1.18%
-- Flow 3:
Average throughput: 88.91 Mbit/s
95th percentile per-packet one-way delay: 147.127 ms
Loss rate: 2.71%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-06-01 00:12:22

End at: 2018-06-01 00:12:52

Local clock offset: -0.312 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-06-01 03:00:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 205.27 Mbit/s

95th percentile per-packet one-way delay: 141.892 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 111.70 Mbit/s

95th percentile per-packet one-way delay: 140.571 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 99.18 Mbit/s

95th percentile per-packet one-way delay: 138.323 ms

Loss rate: 1.37%

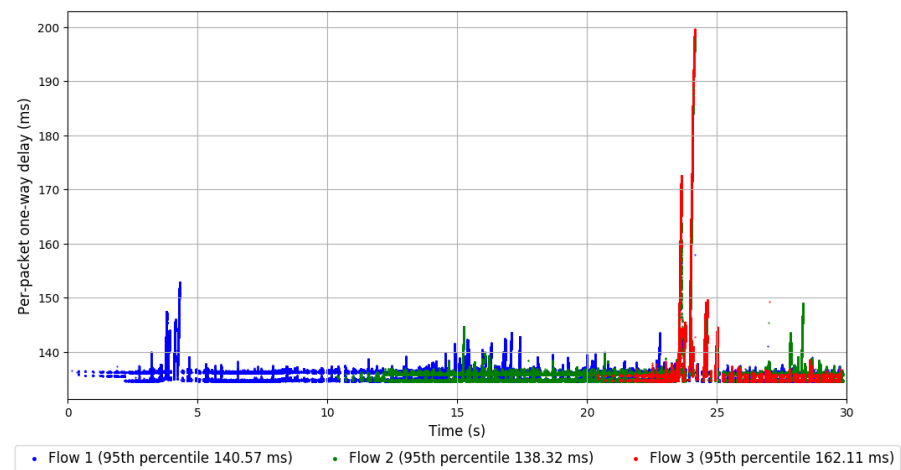
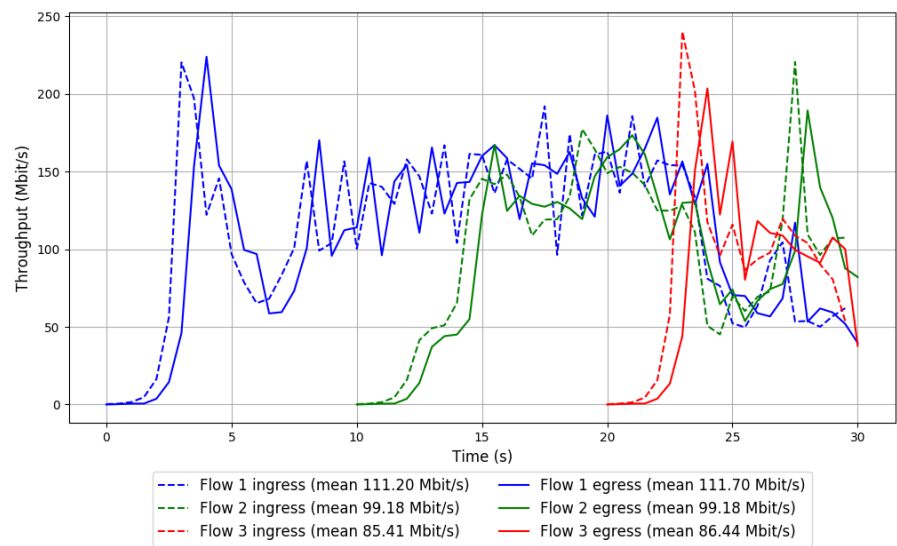
-- Flow 3:

Average throughput: 86.44 Mbit/s

95th percentile per-packet one-way delay: 162.110 ms

Loss rate: 1.72%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-06-01 00:37:39

End at: 2018-06-01 00:38:09

Local clock offset: 0.028 ms

Remote clock offset: 0.003 ms

Below is generated by plot.py at 2018-06-01 03:01:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 281.53 Mbit/s

95th percentile per-packet one-way delay: 157.699 ms

Loss rate: 1.34%

-- Flow 1:

Average throughput: 168.69 Mbit/s

95th percentile per-packet one-way delay: 143.421 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 134.91 Mbit/s

95th percentile per-packet one-way delay: 191.532 ms

Loss rate: 2.37%

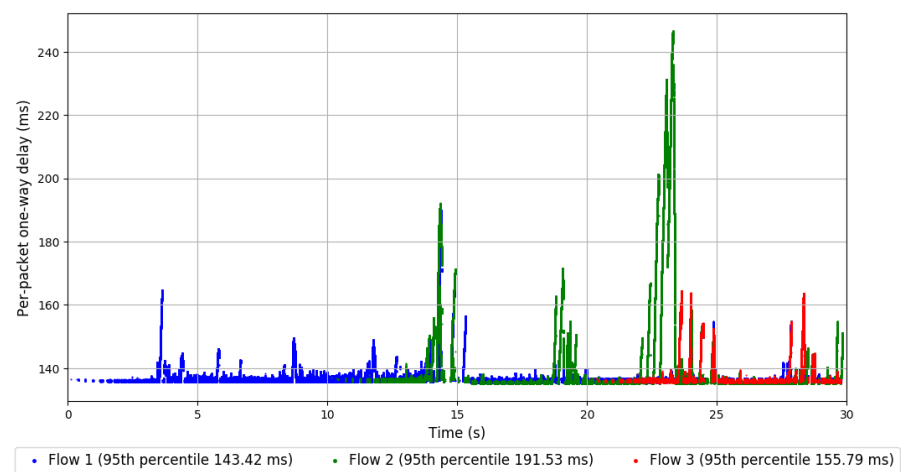
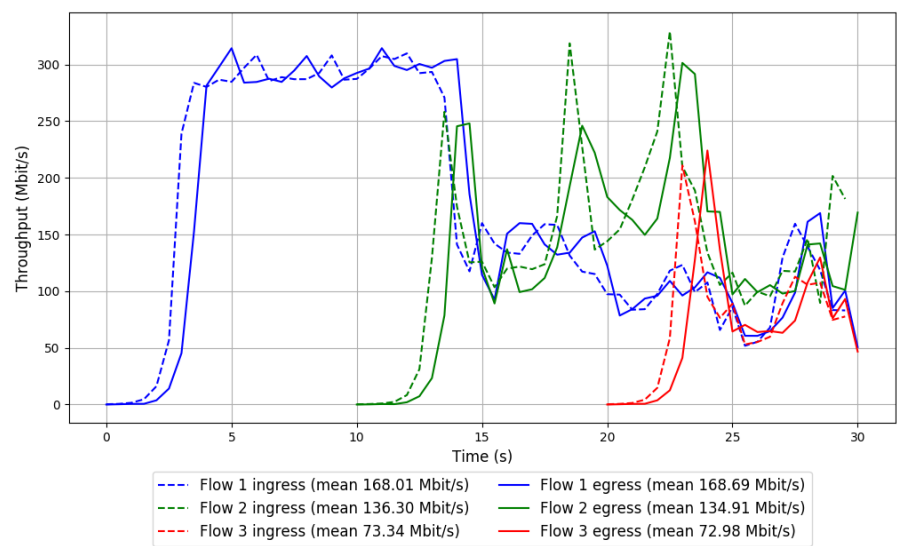
-- Flow 3:

Average throughput: 72.98 Mbit/s

95th percentile per-packet one-way delay: 155.789 ms

Loss rate: 3.24%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-06-01 01:02:59

End at: 2018-06-01 01:03:29

Local clock offset: 0.249 ms

Remote clock offset: 0.046 ms

Below is generated by plot.py at 2018-06-01 03:02:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 262.28 Mbit/s

95th percentile per-packet one-way delay: 154.956 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 175.54 Mbit/s

95th percentile per-packet one-way delay: 155.458 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 88.55 Mbit/s

95th percentile per-packet one-way delay: 152.015 ms

Loss rate: 0.93%

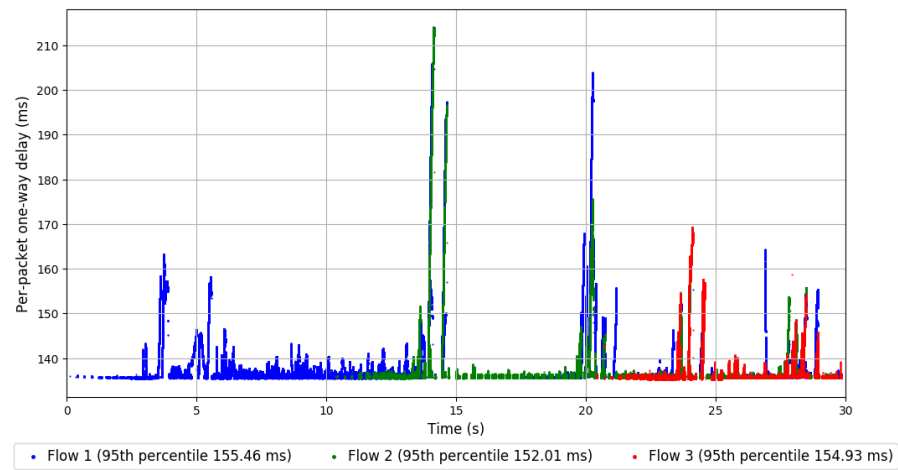
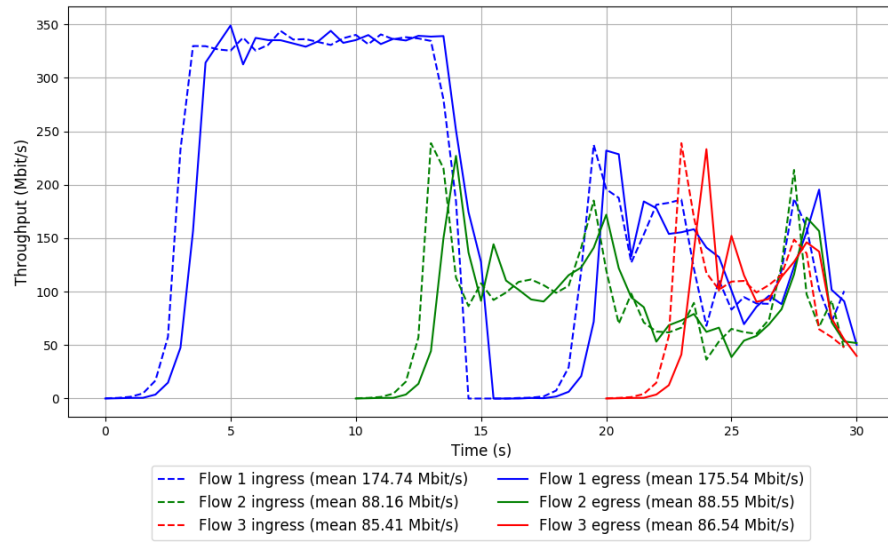
-- Flow 3:

Average throughput: 86.54 Mbit/s

95th percentile per-packet one-way delay: 154.928 ms

Loss rate: 1.45%

Run 7: Report of Copa — Data Link

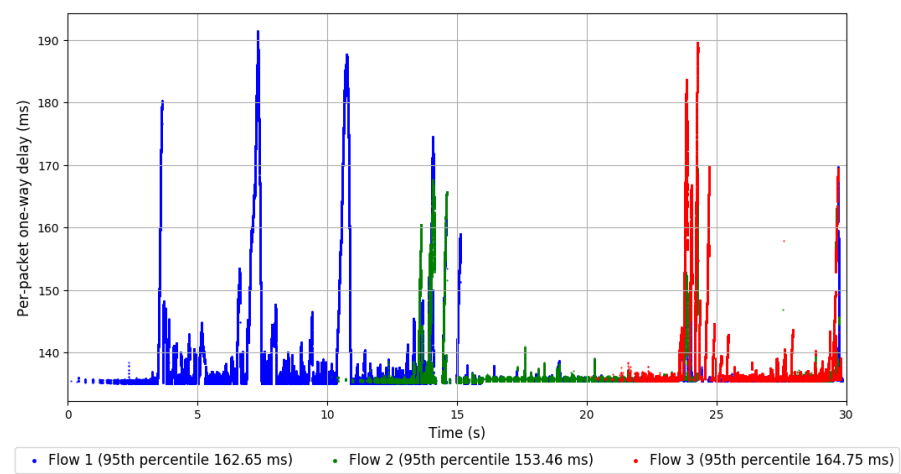
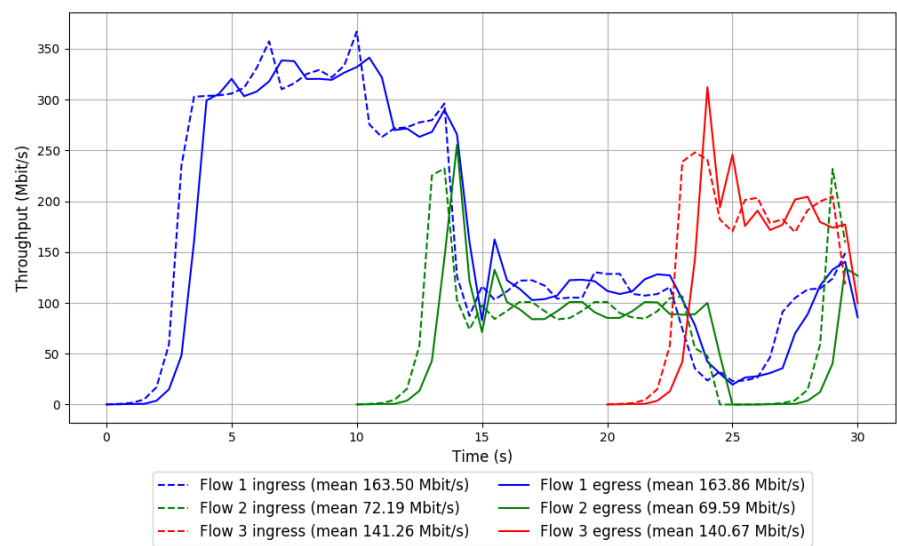


Run 8: Statistics of Copa

Start at: 2018-06-01 01:28:18
End at: 2018-06-01 01:28:48
Local clock offset: -0.233 ms
Remote clock offset: 0.04 ms

Below is generated by plot.py at 2018-06-01 03:02:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 255.42 Mbit/s
95th percentile per-packet one-way delay: 161.077 ms
Loss rate: 2.11%
-- Flow 1:
Average throughput: 163.86 Mbit/s
95th percentile per-packet one-way delay: 162.650 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 69.59 Mbit/s
95th percentile per-packet one-way delay: 153.464 ms
Loss rate: 5.29%
-- Flow 3:
Average throughput: 140.67 Mbit/s
95th percentile per-packet one-way delay: 164.750 ms
Loss rate: 3.64%

Run 8: Report of Copa — Data Link

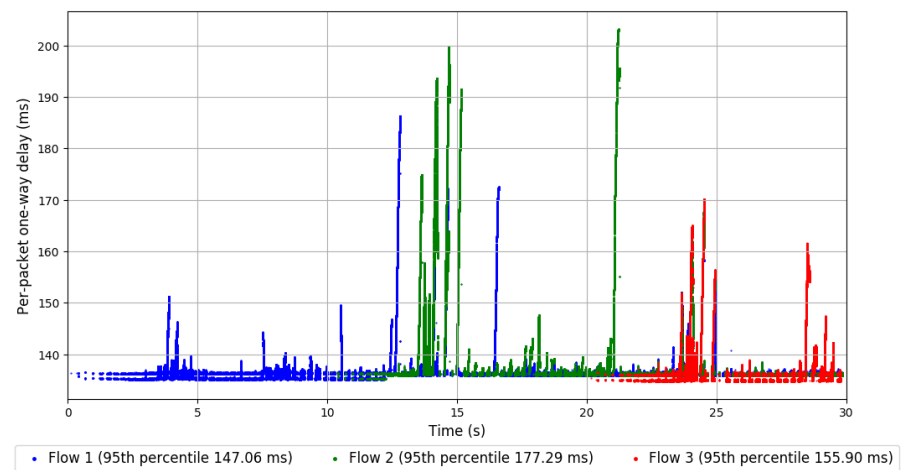
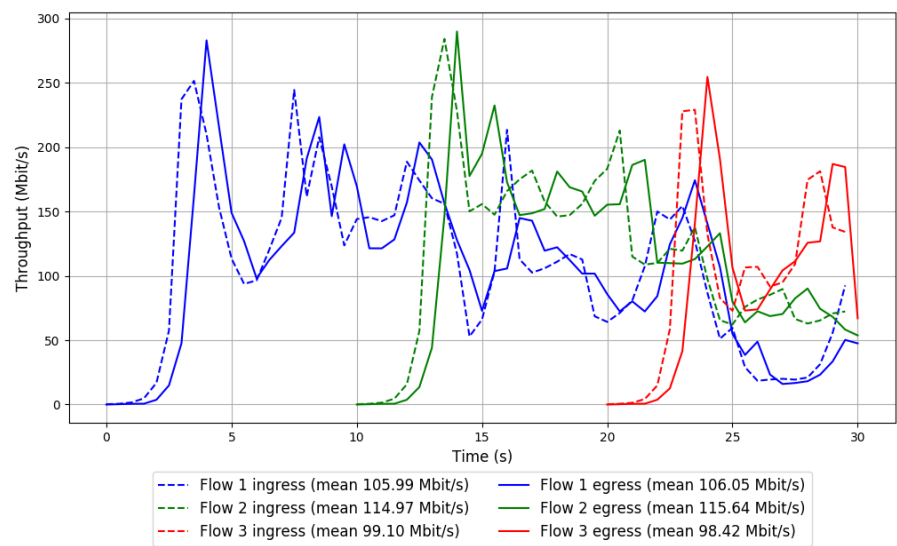


Run 9: Statistics of Copa

Start at: 2018-06-01 01:53:22
End at: 2018-06-01 01:53:52
Local clock offset: -0.141 ms
Remote clock offset: -0.372 ms

Below is generated by plot.py at 2018-06-01 03:05:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 214.59 Mbit/s
95th percentile per-packet one-way delay: 161.179 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 106.05 Mbit/s
95th percentile per-packet one-way delay: 147.058 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 115.64 Mbit/s
95th percentile per-packet one-way delay: 177.288 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 98.42 Mbit/s
95th percentile per-packet one-way delay: 155.896 ms
Loss rate: 3.42%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-06-01 02:18:40

End at: 2018-06-01 02:19:10

Local clock offset: 0.031 ms

Remote clock offset: 0.013 ms

Below is generated by plot.py at 2018-06-01 03:06:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 211.84 Mbit/s

95th percentile per-packet one-way delay: 149.578 ms

Loss rate: 2.08%

-- Flow 1:

Average throughput: 102.45 Mbit/s

95th percentile per-packet one-way delay: 145.310 ms

Loss rate: 1.82%

-- Flow 2:

Average throughput: 127.29 Mbit/s

95th percentile per-packet one-way delay: 155.196 ms

Loss rate: 1.74%

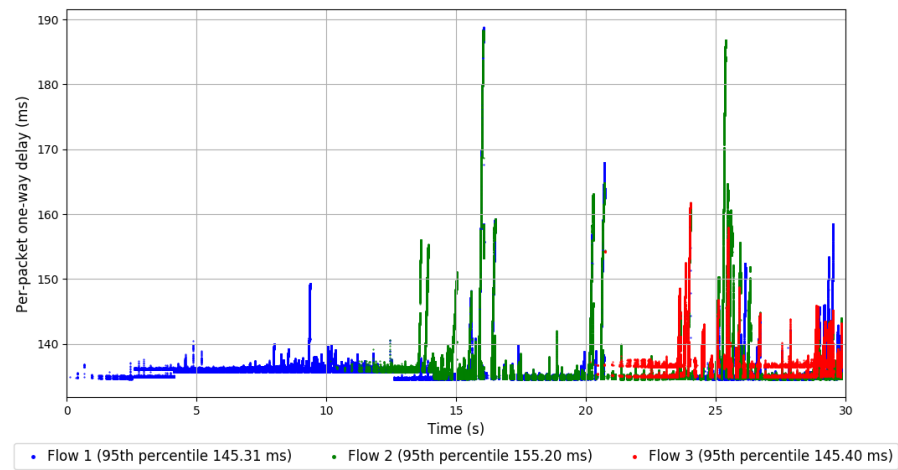
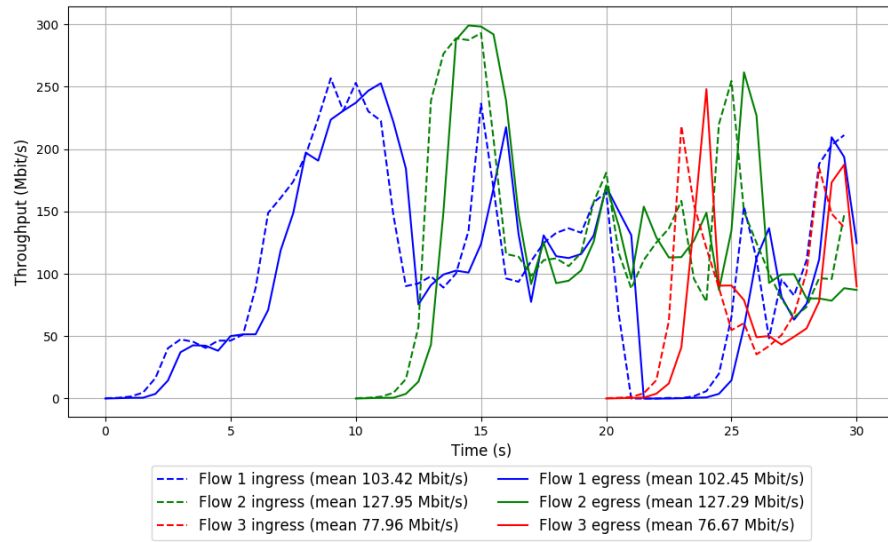
-- Flow 3:

Average throughput: 76.67 Mbit/s

95th percentile per-packet one-way delay: 145.403 ms

Loss rate: 4.22%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-05-31 22:44:35

End at: 2018-05-31 22:45:05

Local clock offset: -0.236 ms

Remote clock offset: 0.062 ms

Below is generated by plot.py at 2018-06-01 03:06:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 153.28 Mbit/s

95th percentile per-packet one-way delay: 143.748 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 80.23 Mbit/s

95th percentile per-packet one-way delay: 143.543 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 78.99 Mbit/s

95th percentile per-packet one-way delay: 144.100 ms

Loss rate: 0.83%

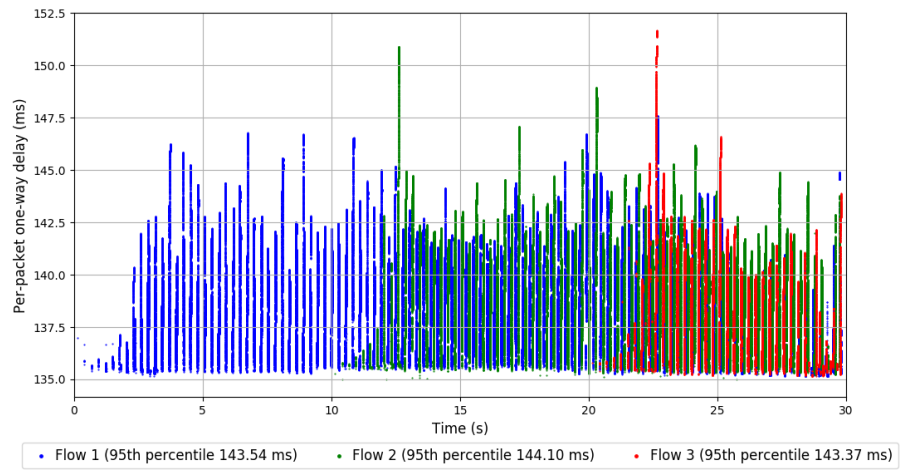
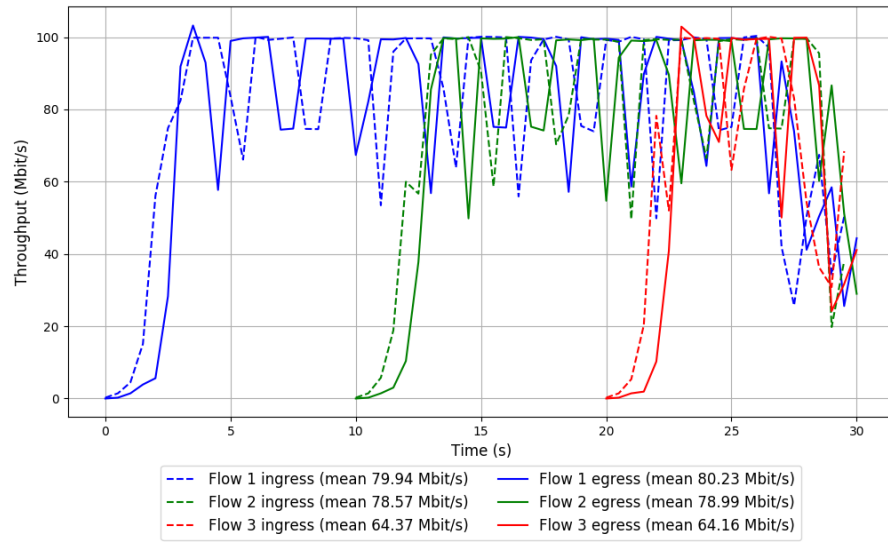
-- Flow 3:

Average throughput: 64.16 Mbit/s

95th percentile per-packet one-way delay: 143.366 ms

Loss rate: 3.07%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-05-31 23:10:05

End at: 2018-05-31 23:10:35

Local clock offset: 0.282 ms

Remote clock offset: 0.127 ms

Below is generated by plot.py at 2018-06-01 03:06:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.81 Mbit/s

95th percentile per-packet one-way delay: 145.122 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 77.81 Mbit/s

95th percentile per-packet one-way delay: 145.598 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 37.22 Mbit/s

95th percentile per-packet one-way delay: 142.412 ms

Loss rate: 1.60%

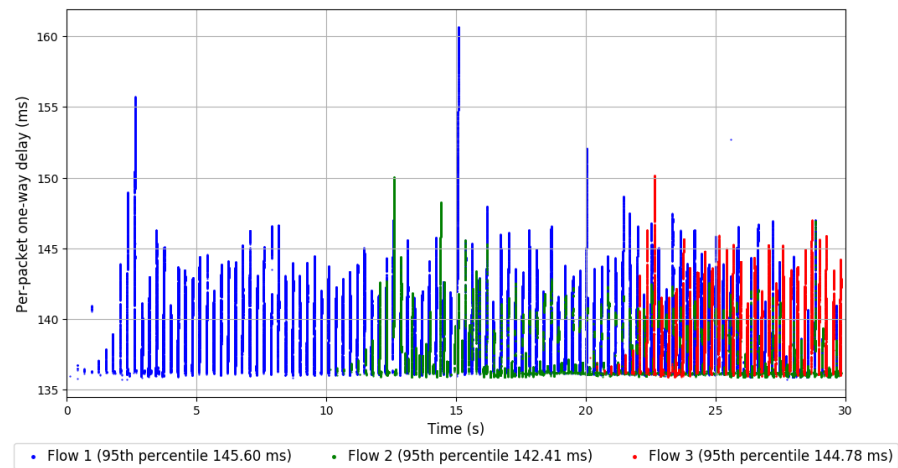
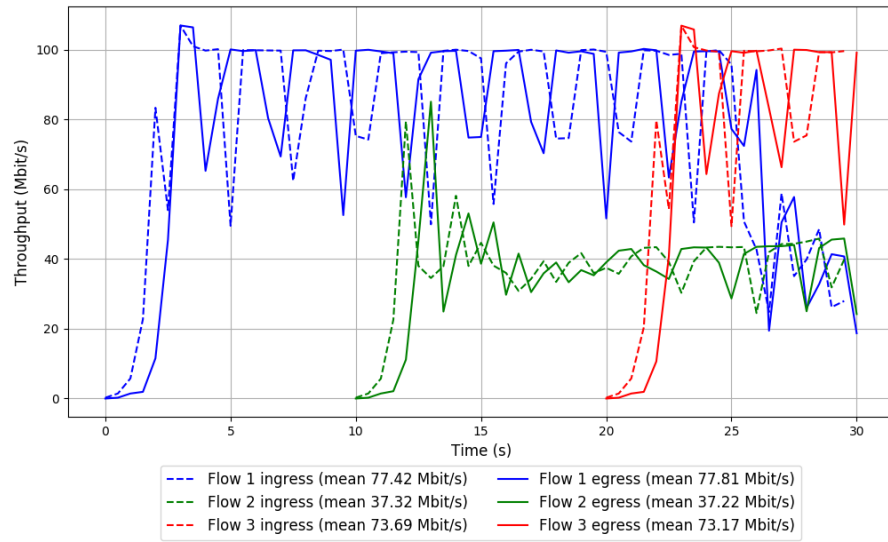
-- Flow 3:

Average throughput: 73.17 Mbit/s

95th percentile per-packet one-way delay: 144.782 ms

Loss rate: 3.40%

Run 2: Report of TCP Cubic — Data Link

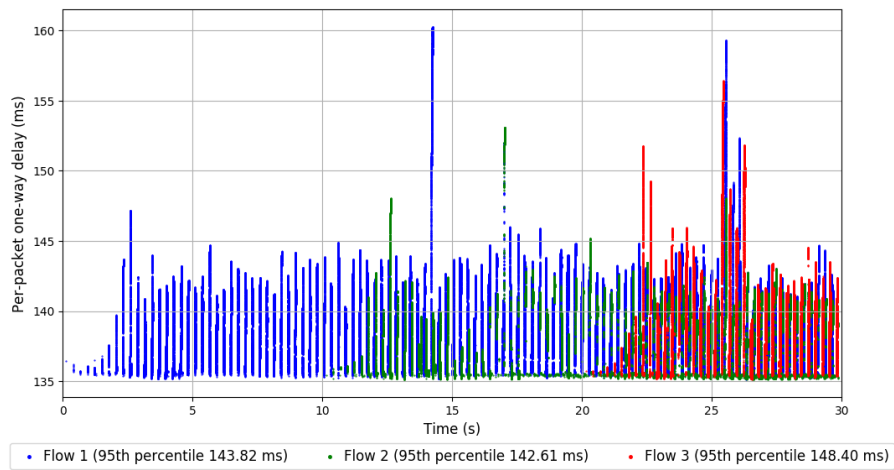
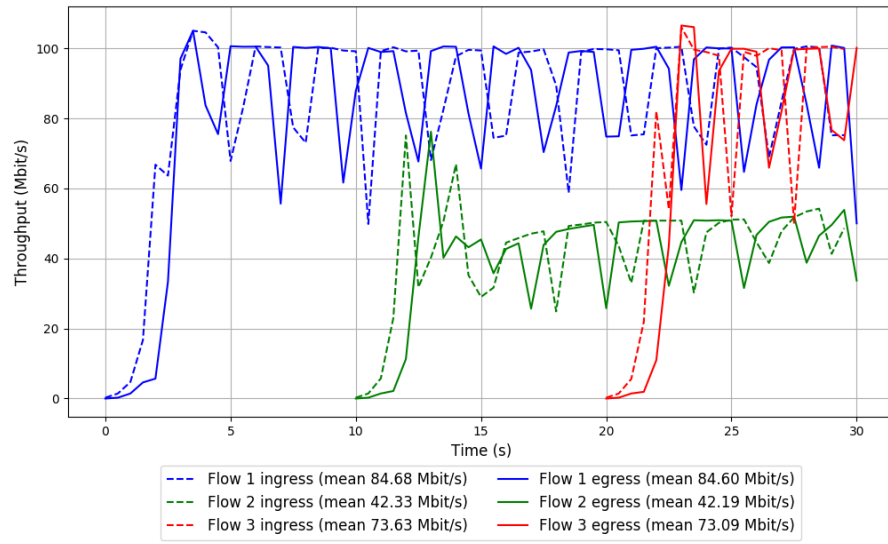


Run 3: Statistics of TCP Cubic

Start at: 2018-05-31 23:35:30
End at: 2018-05-31 23:36:00
Local clock offset: 0.16 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2018-06-01 03:06:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 135.91 Mbit/s
95th percentile per-packet one-way delay: 144.320 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 84.60 Mbit/s
95th percentile per-packet one-way delay: 143.825 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 42.19 Mbit/s
95th percentile per-packet one-way delay: 142.608 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 73.09 Mbit/s
95th percentile per-packet one-way delay: 148.399 ms
Loss rate: 3.41%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-06-01 00:01:00

End at: 2018-06-01 00:01:30

Local clock offset: -0.221 ms

Remote clock offset: 0.301 ms

Below is generated by plot.py at 2018-06-01 03:06:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 130.59 Mbit/s

95th percentile per-packet one-way delay: 143.041 ms

Loss rate: 1.85%

-- Flow 1:

Average throughput: 54.64 Mbit/s

95th percentile per-packet one-way delay: 142.148 ms

Loss rate: 1.45%

-- Flow 2:

Average throughput: 79.99 Mbit/s

95th percentile per-packet one-way delay: 143.315 ms

Loss rate: 1.54%

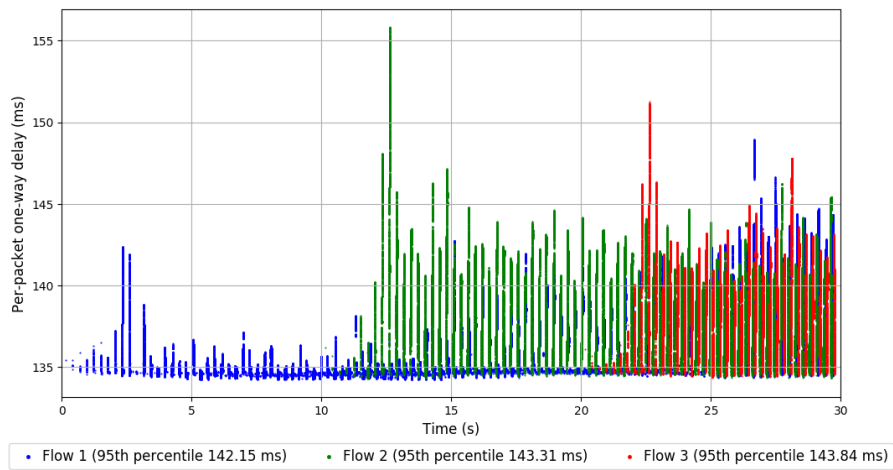
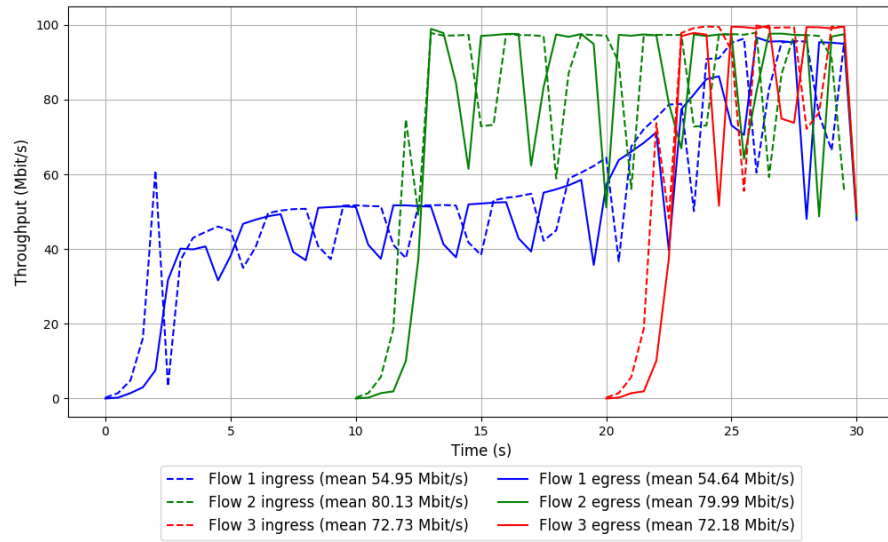
-- Flow 3:

Average throughput: 72.18 Mbit/s

95th percentile per-packet one-way delay: 143.841 ms

Loss rate: 3.46%

Run 4: Report of TCP Cubic — Data Link

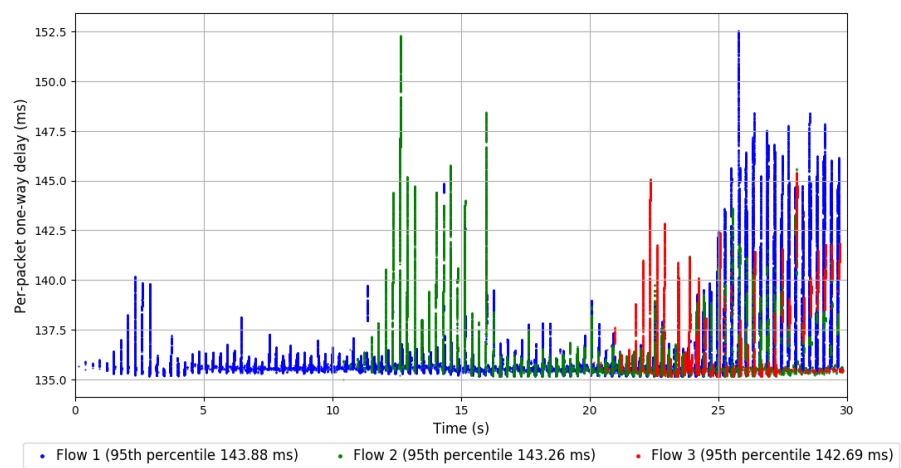
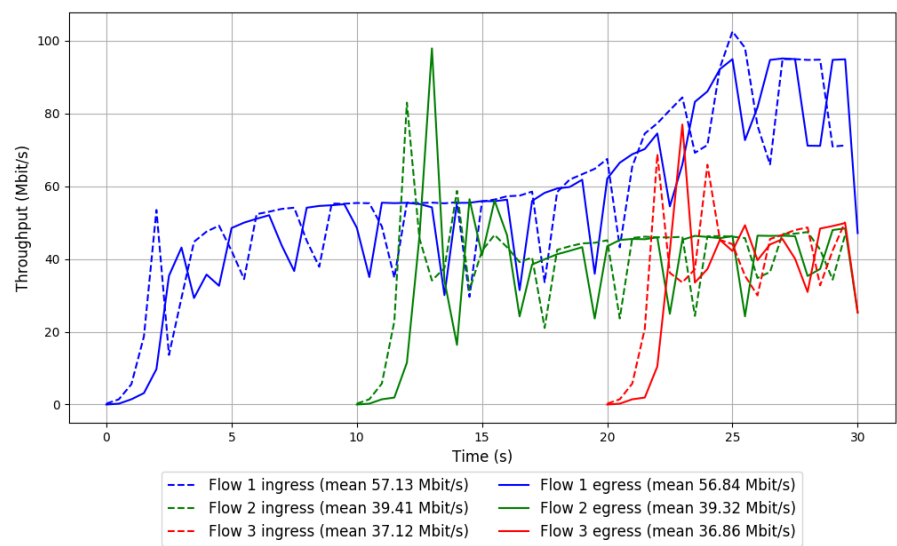


Run 5: Statistics of TCP Cubic

Start at: 2018-06-01 00:26:10
End at: 2018-06-01 00:26:40
Local clock offset: -0.077 ms
Remote clock offset: 0.368 ms

Below is generated by plot.py at 2018-06-01 03:06:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.60 Mbit/s
95th percentile per-packet one-way delay: 143.540 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 56.84 Mbit/s
95th percentile per-packet one-way delay: 143.878 ms
Loss rate: 1.40%
-- Flow 2:
Average throughput: 39.32 Mbit/s
95th percentile per-packet one-way delay: 143.261 ms
Loss rate: 1.59%
-- Flow 3:
Average throughput: 36.86 Mbit/s
95th percentile per-packet one-way delay: 142.690 ms
Loss rate: 3.41%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-06-01 00:51:43

End at: 2018-06-01 00:52:13

Local clock offset: 0.347 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-06-01 03:06:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.23 Mbit/s

95th percentile per-packet one-way delay: 144.508 ms

Loss rate: 1.44%

-- Flow 1:

Average throughput: 58.79 Mbit/s

95th percentile per-packet one-way delay: 142.695 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 80.83 Mbit/s

95th percentile per-packet one-way delay: 145.009 ms

Loss rate: 1.54%

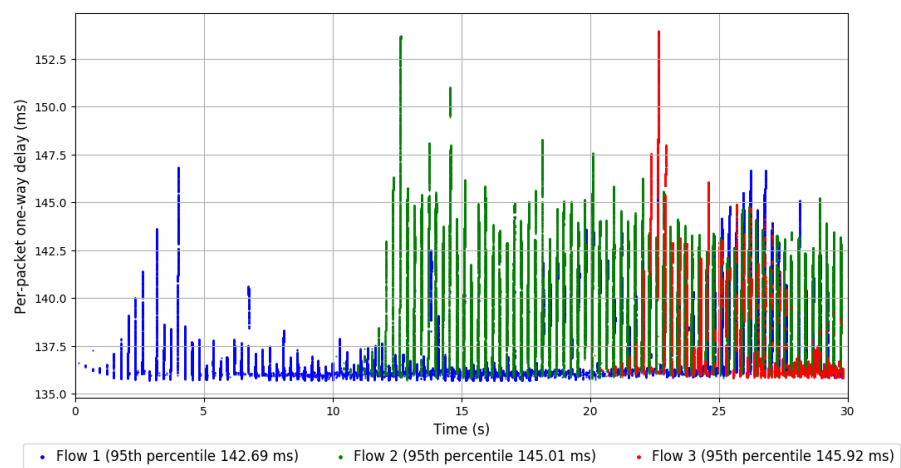
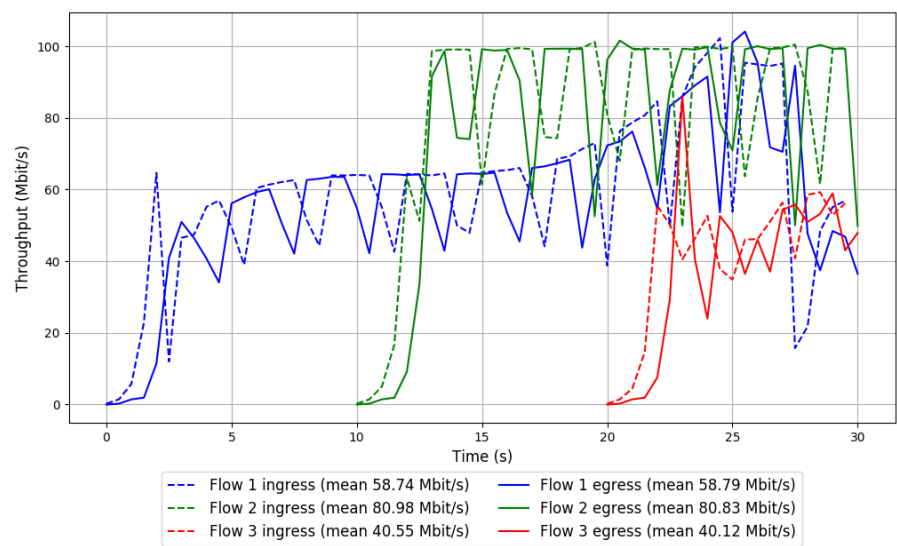
-- Flow 3:

Average throughput: 40.12 Mbit/s

95th percentile per-packet one-way delay: 145.921 ms

Loss rate: 3.79%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-06-01 01:16:52

End at: 2018-06-01 01:17:22

Local clock offset: -0.247 ms

Remote clock offset: -0.39 ms

Below is generated by plot.py at 2018-06-01 03:06:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.45 Mbit/s

95th percentile per-packet one-way delay: 143.195 ms

Loss rate: 1.89%

-- Flow 1:

Average throughput: 52.59 Mbit/s

95th percentile per-packet one-way delay: 143.596 ms

Loss rate: 1.54%

-- Flow 2:

Average throughput: 40.12 Mbit/s

95th percentile per-packet one-way delay: 140.283 ms

Loss rate: 1.69%

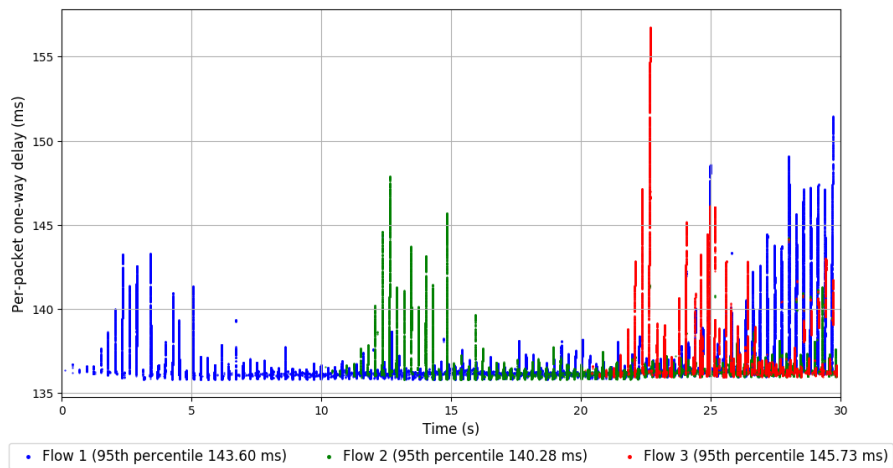
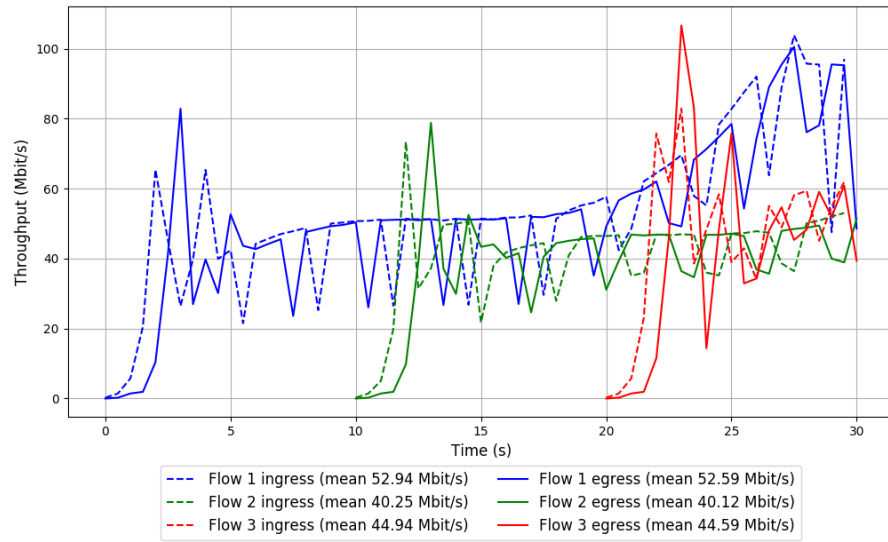
-- Flow 3:

Average throughput: 44.59 Mbit/s

95th percentile per-packet one-way delay: 145.728 ms

Loss rate: 3.48%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-06-01 01:42:01

End at: 2018-06-01 01:42:31

Local clock offset: 0.147 ms

Remote clock offset: 0.384 ms

Below is generated by plot.py at 2018-06-01 03:06:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.94 Mbit/s

95th percentile per-packet one-way delay: 143.738 ms

Loss rate: 1.84%

-- Flow 1:

Average throughput: 50.85 Mbit/s

95th percentile per-packet one-way delay: 144.383 ms

Loss rate: 1.57%

-- Flow 2:

Average throughput: 42.00 Mbit/s

95th percentile per-packet one-way delay: 142.077 ms

Loss rate: 1.66%

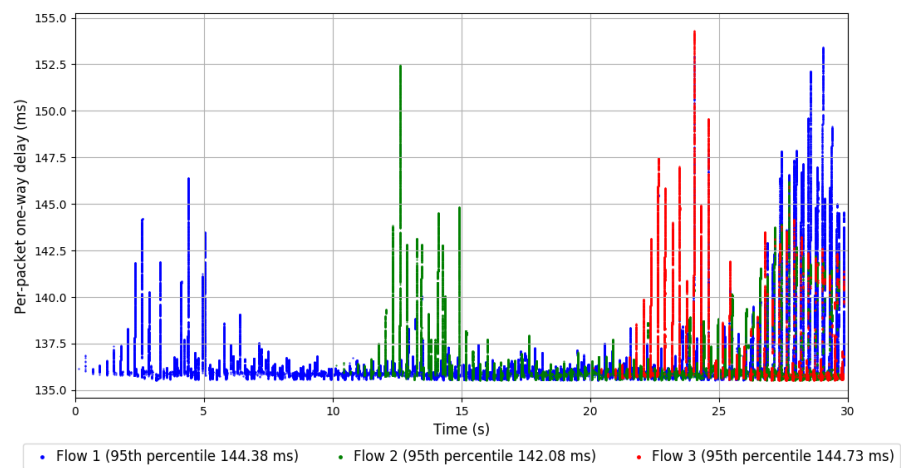
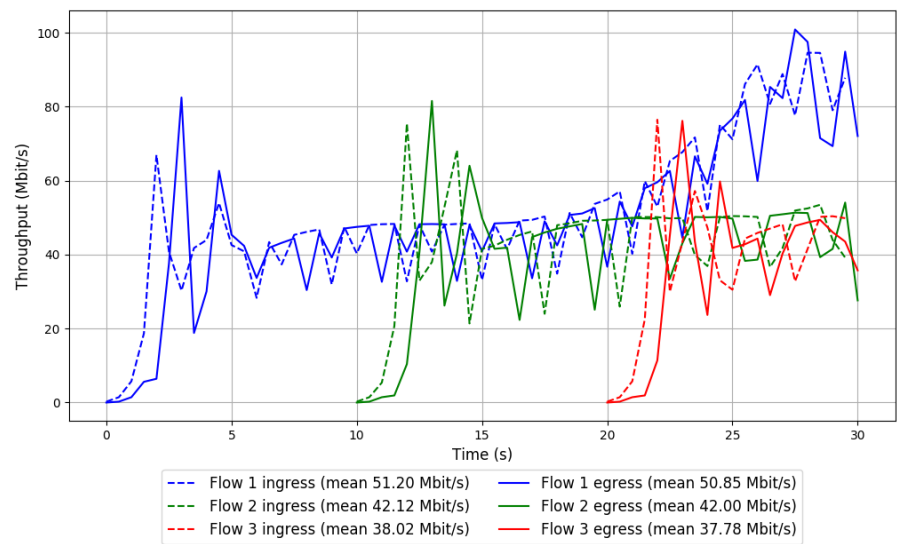
-- Flow 3:

Average throughput: 37.78 Mbit/s

95th percentile per-packet one-way delay: 144.727 ms

Loss rate: 3.35%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-06-01 02:07:17

End at: 2018-06-01 02:07:47

Local clock offset: -0.027 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-06-01 03:06:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 135.94 Mbit/s

95th percentile per-packet one-way delay: 145.060 ms

Loss rate: 1.74%

-- Flow 1:

Average throughput: 64.42 Mbit/s

95th percentile per-packet one-way delay: 145.579 ms

Loss rate: 1.22%

-- Flow 2:

Average throughput: 72.85 Mbit/s

95th percentile per-packet one-way delay: 142.983 ms

Loss rate: 1.62%

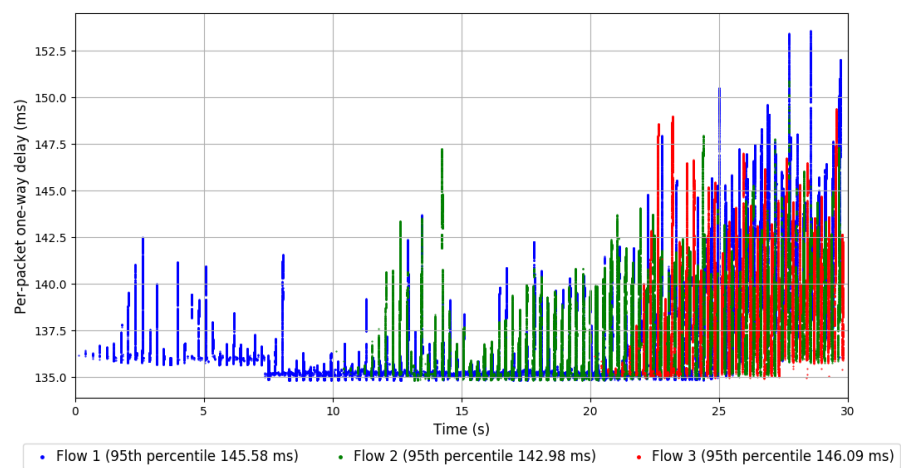
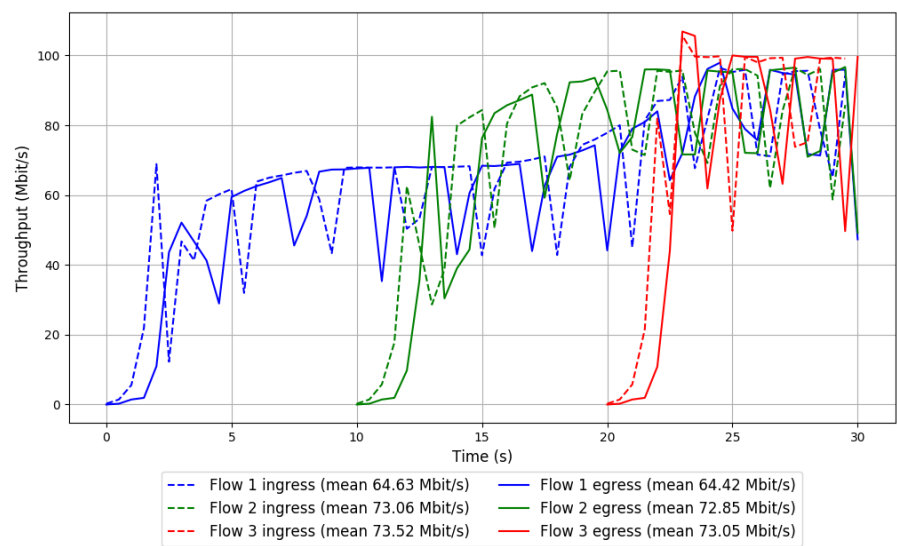
-- Flow 3:

Average throughput: 73.05 Mbit/s

95th percentile per-packet one-way delay: 146.091 ms

Loss rate: 3.36%

Run 9: Report of TCP Cubic — Data Link

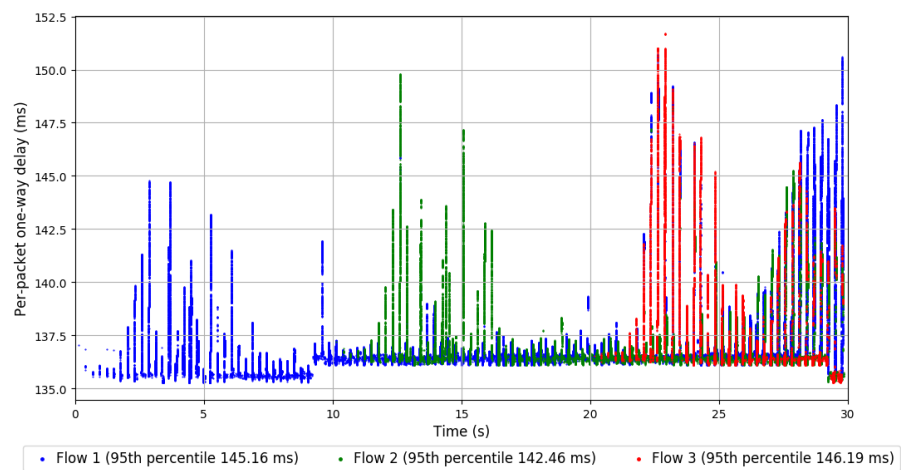
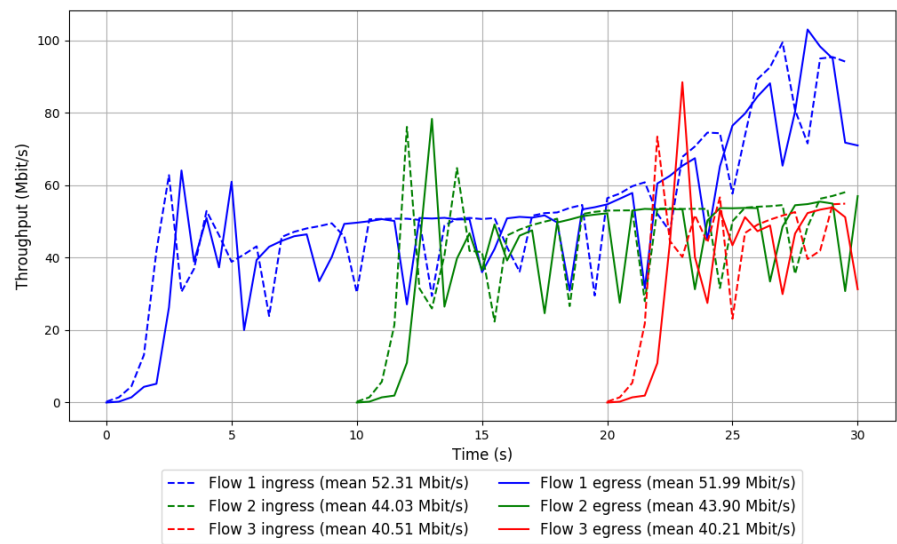


Run 10: Statistics of TCP Cubic

Start at: 2018-06-01 02:32:35
End at: 2018-06-01 02:33:05
Local clock offset: 0.039 ms
Remote clock offset: -0.389 ms

Below is generated by plot.py at 2018-06-01 03:06:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.16 Mbit/s
95th percentile per-packet one-way delay: 144.420 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 51.99 Mbit/s
95th percentile per-packet one-way delay: 145.163 ms
Loss rate: 1.49%
-- Flow 2:
Average throughput: 43.90 Mbit/s
95th percentile per-packet one-way delay: 142.462 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 40.21 Mbit/s
95th percentile per-packet one-way delay: 146.185 ms
Loss rate: 3.44%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-05-31 22:27:05

End at: 2018-05-31 22:27:35

Local clock offset: -0.607 ms

Remote clock offset: 0.034 ms

Below is generated by plot.py at 2018-06-01 03:30:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 1239.94 Mbit/s

95th percentile per-packet one-way delay: 305.455 ms

Loss rate: 5.91%

-- Flow 1:

Average throughput: 662.25 Mbit/s

95th percentile per-packet one-way delay: 288.436 ms

Loss rate: 6.56%

-- Flow 2:

Average throughput: 617.87 Mbit/s

95th percentile per-packet one-way delay: 327.618 ms

Loss rate: 5.03%

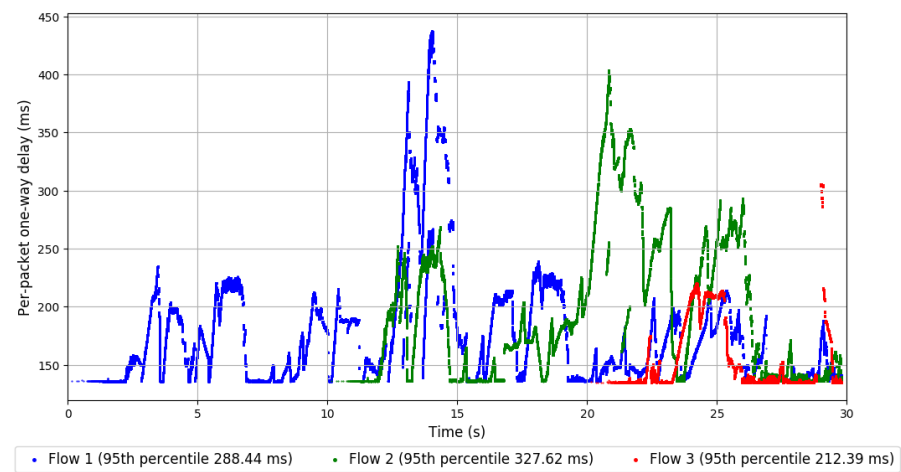
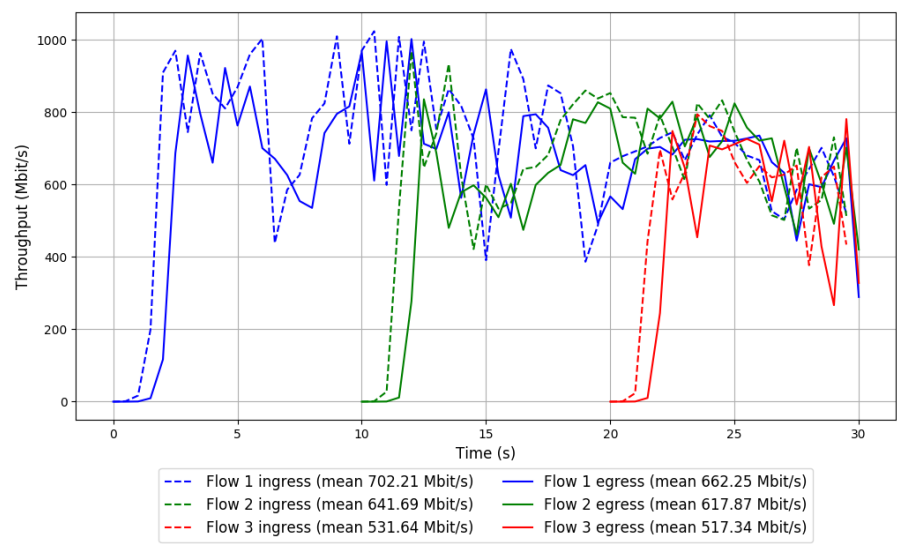
-- Flow 3:

Average throughput: 517.34 Mbit/s

95th percentile per-packet one-way delay: 212.390 ms

Loss rate: 5.43%

Run 1: Report of FillP — Data Link

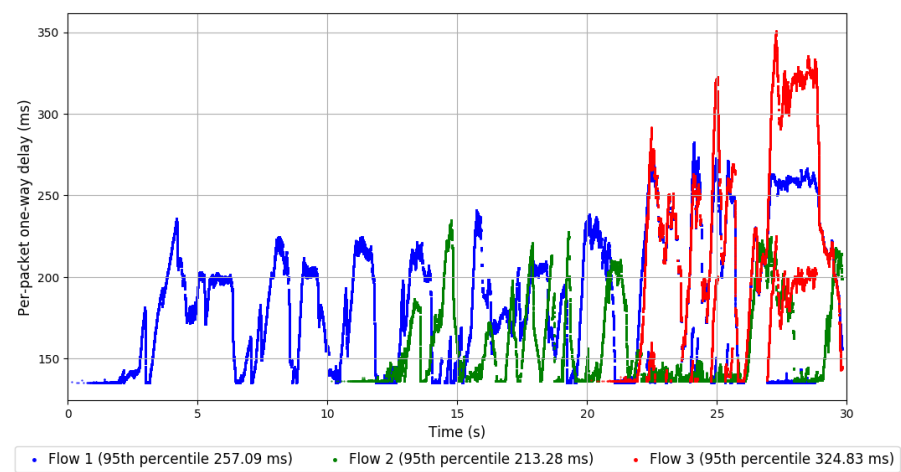
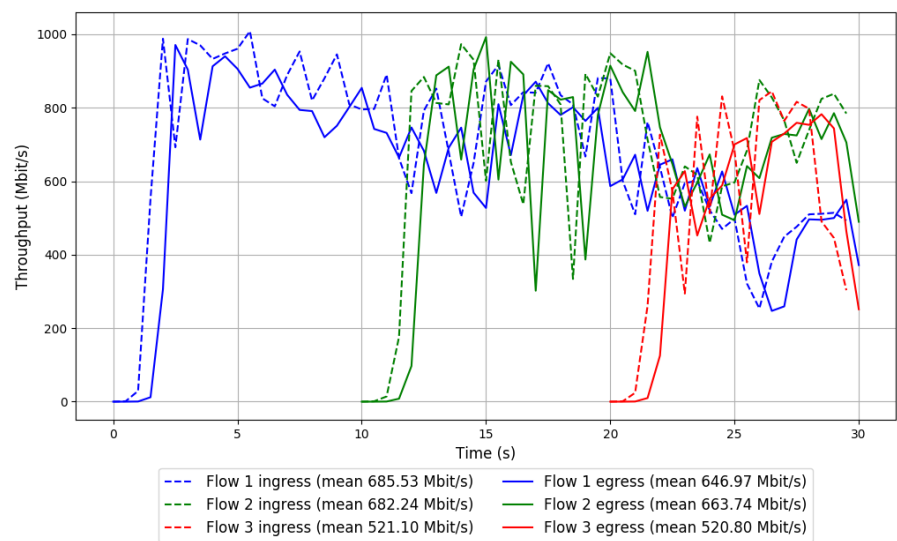


Run 2: Statistics of FillP

Start at: 2018-05-31 22:52:25
End at: 2018-05-31 22:52:55
Local clock offset: -0.447 ms
Remote clock offset: -0.276 ms

Below is generated by plot.py at 2018-06-01 03:31:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 1256.17 Mbit/s
95th percentile per-packet one-way delay: 261.161 ms
Loss rate: 5.15%
-- Flow 1:
Average throughput: 646.97 Mbit/s
95th percentile per-packet one-way delay: 257.090 ms
Loss rate: 6.48%
-- Flow 2:
Average throughput: 663.74 Mbit/s
95th percentile per-packet one-way delay: 213.285 ms
Loss rate: 4.04%
-- Flow 3:
Average throughput: 520.80 Mbit/s
95th percentile per-packet one-way delay: 324.827 ms
Loss rate: 2.80%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-05-31 23:17:57

End at: 2018-05-31 23:18:27

Local clock offset: -0.101 ms

Remote clock offset: 0.158 ms

Below is generated by plot.py at 2018-06-01 03:34:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 1383.18 Mbit/s

95th percentile per-packet one-way delay: 204.289 ms

Loss rate: 2.34%

-- Flow 1:

Average throughput: 770.22 Mbit/s

95th percentile per-packet one-way delay: 196.293 ms

Loss rate: 2.06%

-- Flow 2:

Average throughput: 677.06 Mbit/s

95th percentile per-packet one-way delay: 207.637 ms

Loss rate: 2.51%

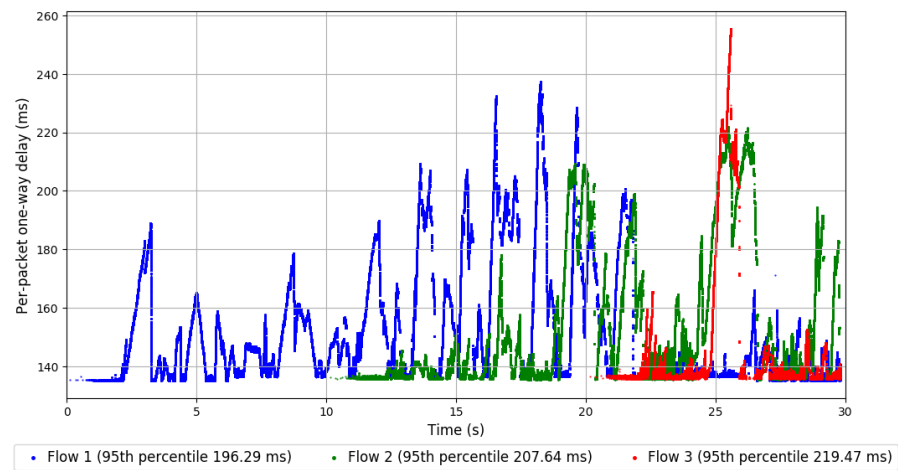
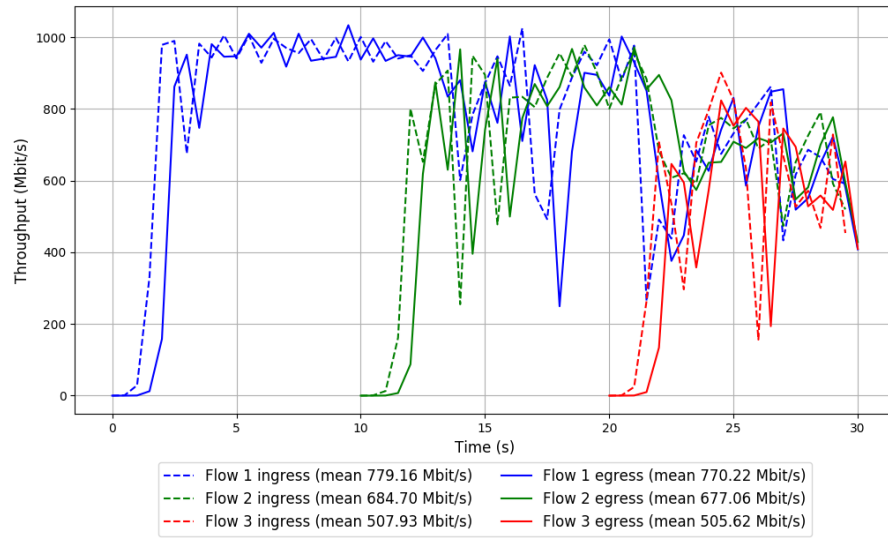
-- Flow 3:

Average throughput: 505.62 Mbit/s

95th percentile per-packet one-way delay: 219.467 ms

Loss rate: 3.18%

Run 3: Report of FillP — Data Link

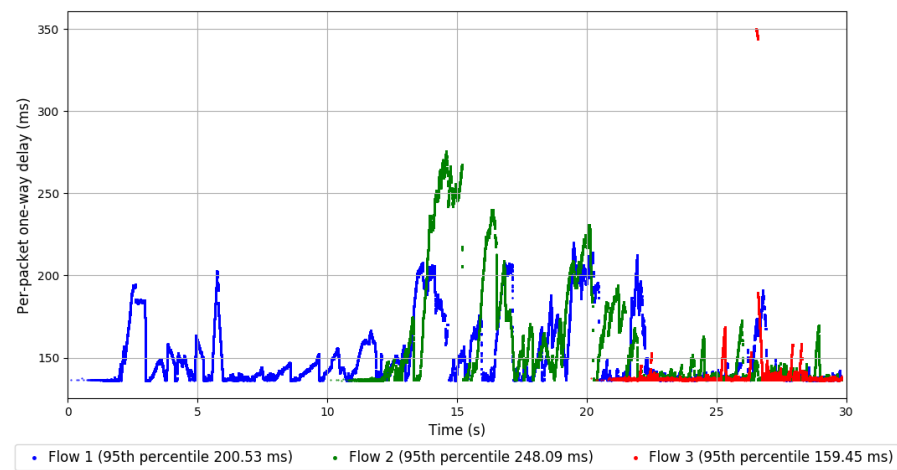
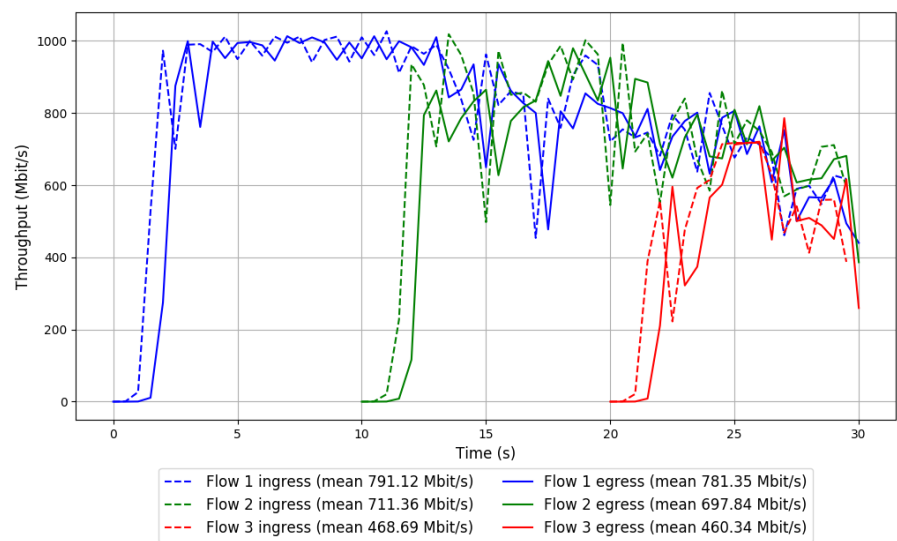


Run 4: Statistics of FillP

Start at: 2018-05-31 23:43:22
End at: 2018-05-31 23:43:52
Local clock offset: 0.011 ms
Remote clock offset: -0.424 ms

Below is generated by plot.py at 2018-06-01 03:34:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 1393.51 Mbit/s
95th percentile per-packet one-way delay: 209.200 ms
Loss rate: 2.75%
-- Flow 1:
Average throughput: 781.35 Mbit/s
95th percentile per-packet one-way delay: 200.527 ms
Loss rate: 2.13%
-- Flow 2:
Average throughput: 697.84 Mbit/s
95th percentile per-packet one-way delay: 248.089 ms
Loss rate: 3.21%
-- Flow 3:
Average throughput: 460.34 Mbit/s
95th percentile per-packet one-way delay: 159.454 ms
Loss rate: 4.45%

Run 4: Report of FillP — Data Link

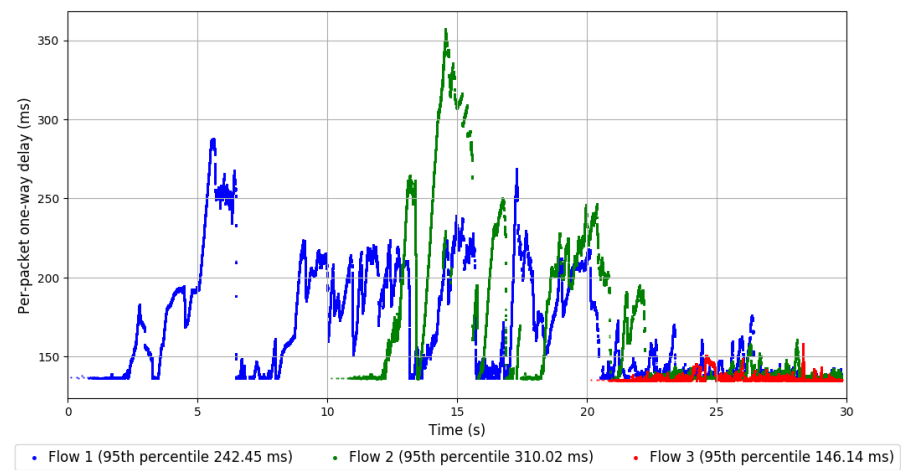
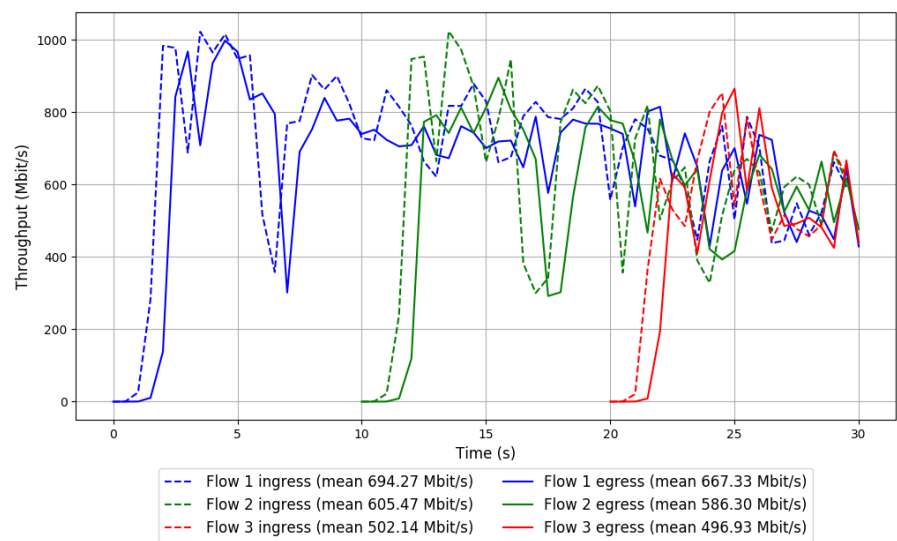


Run 5: Statistics of FillP

Start at: 2018-06-01 00:08:49
End at: 2018-06-01 00:09:19
Local clock offset: 0.255 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2018-06-01 03:34:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 1217.53 Mbit/s
95th percentile per-packet one-way delay: 256.195 ms
Loss rate: 4.54%
-- Flow 1:
Average throughput: 667.33 Mbit/s
95th percentile per-packet one-way delay: 242.454 ms
Loss rate: 4.76%
-- Flow 2:
Average throughput: 586.30 Mbit/s
95th percentile per-packet one-way delay: 310.018 ms
Loss rate: 4.49%
-- Flow 3:
Average throughput: 496.93 Mbit/s
95th percentile per-packet one-way delay: 146.141 ms
Loss rate: 3.74%

Run 5: Report of FillP — Data Link

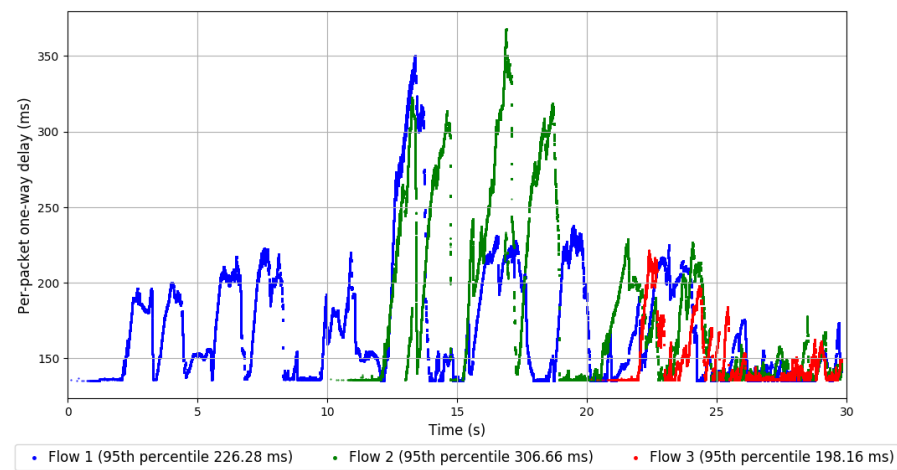
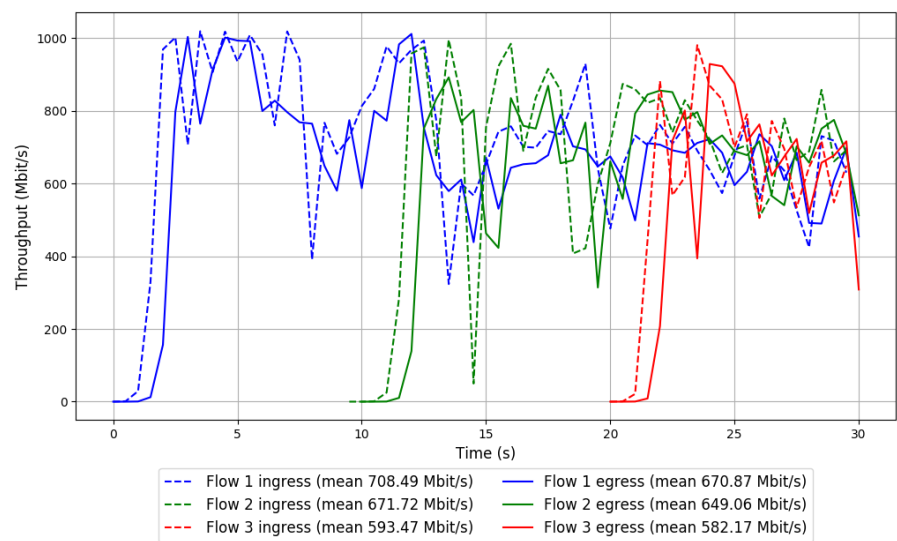


Run 6: Statistics of FillP

Start at: 2018-06-01 00:34:03
End at: 2018-06-01 00:34:33
Local clock offset: 0.034 ms
Remote clock offset: -0.007 ms

Below is generated by plot.py at 2018-06-01 03:34:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 1290.32 Mbit/s
95th percentile per-packet one-way delay: 284.897 ms
Loss rate: 5.45%
-- Flow 1:
Average throughput: 670.87 Mbit/s
95th percentile per-packet one-way delay: 226.284 ms
Loss rate: 6.17%
-- Flow 2:
Average throughput: 649.06 Mbit/s
95th percentile per-packet one-way delay: 306.664 ms
Loss rate: 4.69%
-- Flow 3:
Average throughput: 582.17 Mbit/s
95th percentile per-packet one-way delay: 198.159 ms
Loss rate: 4.61%

Run 6: Report of FillP — Data Link

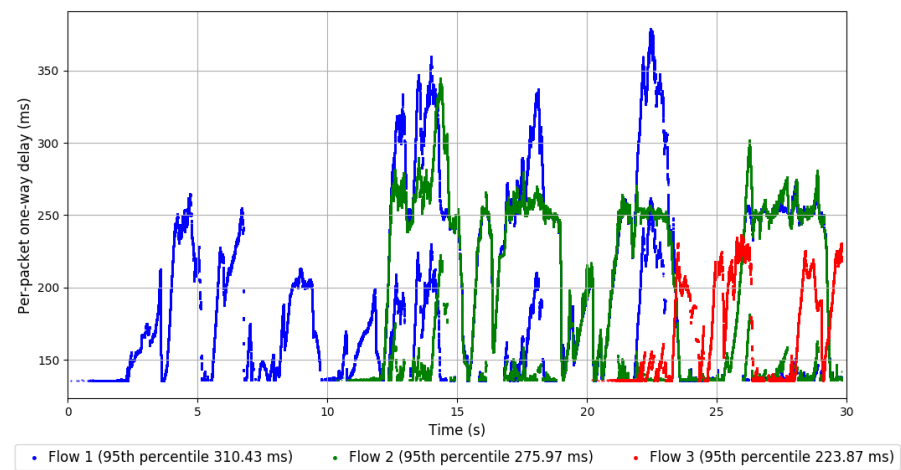
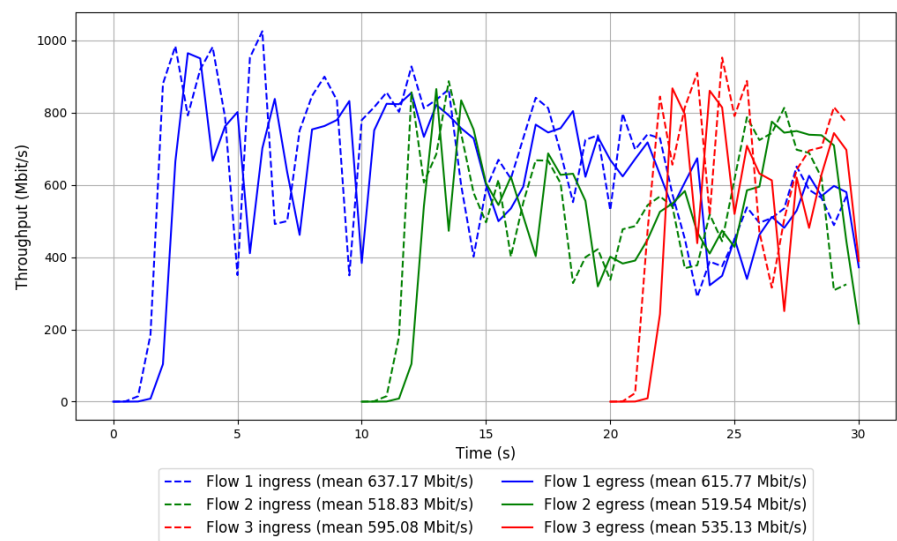


Run 7: Statistics of FillP

Start at: 2018-06-01 00:59:30
End at: 2018-06-01 01:00:00
Local clock offset: 0.387 ms
Remote clock offset: 0.061 ms

Below is generated by plot.py at 2018-06-01 03:34:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 1133.73 Mbit/s
95th percentile per-packet one-way delay: 290.897 ms
Loss rate: 4.73%
-- Flow 1:
Average throughput: 615.77 Mbit/s
95th percentile per-packet one-way delay: 310.428 ms
Loss rate: 4.24%
-- Flow 2:
Average throughput: 519.54 Mbit/s
95th percentile per-packet one-way delay: 275.973 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 535.13 Mbit/s
95th percentile per-packet one-way delay: 223.867 ms
Loss rate: 12.54%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-06-01 01:24:42

End at: 2018-06-01 01:25:12

Local clock offset: -0.285 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-06-01 03:35:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 1311.95 Mbit/s

95th percentile per-packet one-way delay: 213.892 ms

Loss rate: 4.81%

-- Flow 1:

Average throughput: 689.46 Mbit/s

95th percentile per-packet one-way delay: 214.231 ms

Loss rate: 6.05%

-- Flow 2:

Average throughput: 662.25 Mbit/s

95th percentile per-packet one-way delay: 207.007 ms

Loss rate: 2.98%

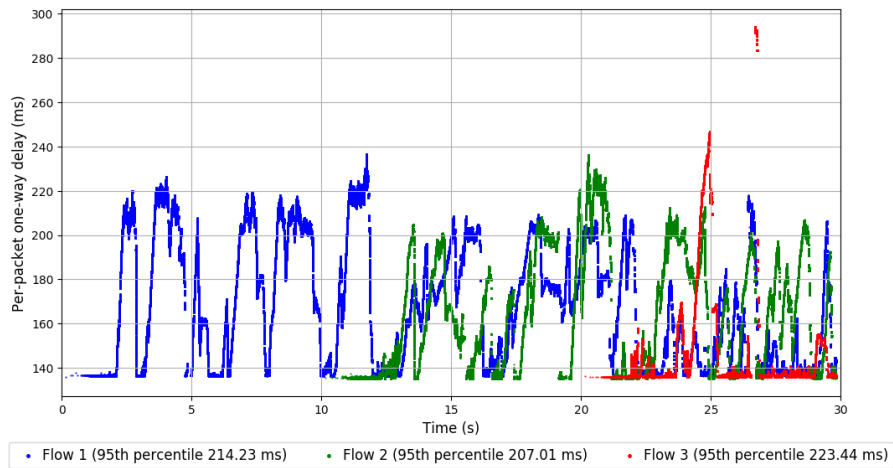
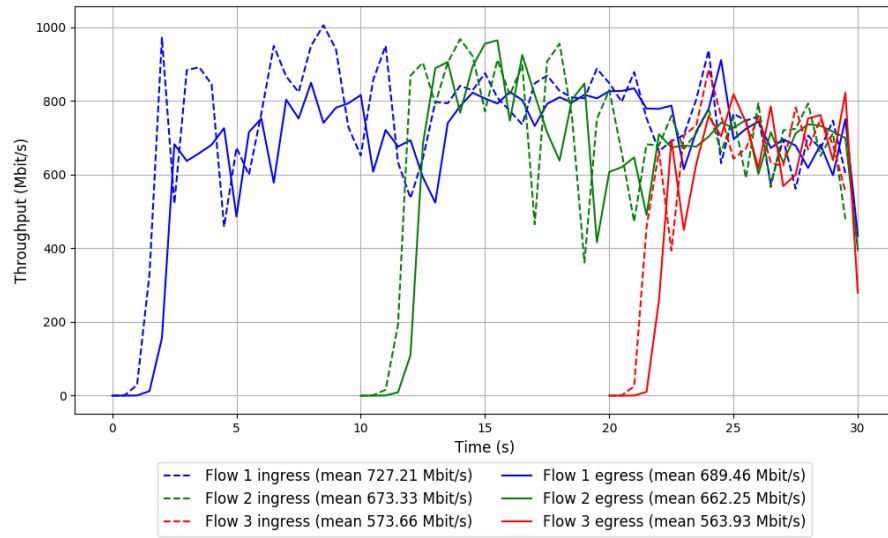
-- Flow 3:

Average throughput: 563.93 Mbit/s

95th percentile per-packet one-way delay: 223.445 ms

Loss rate: 4.39%

Run 8: Report of FillP — Data Link

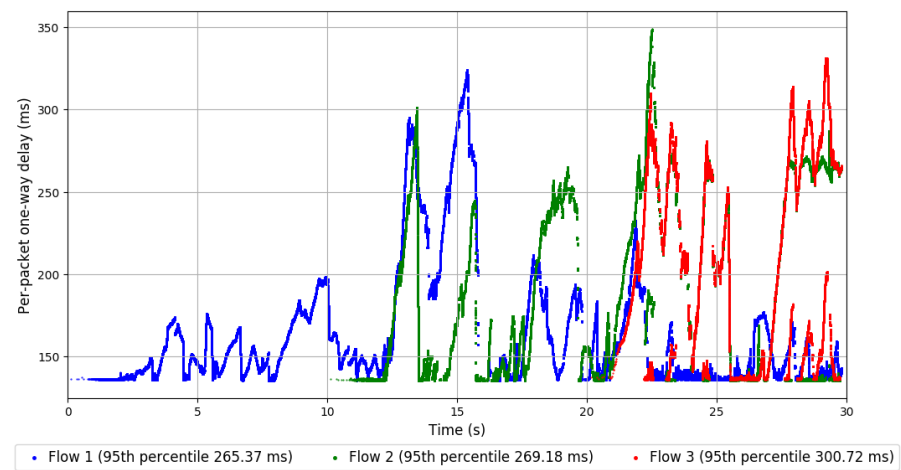
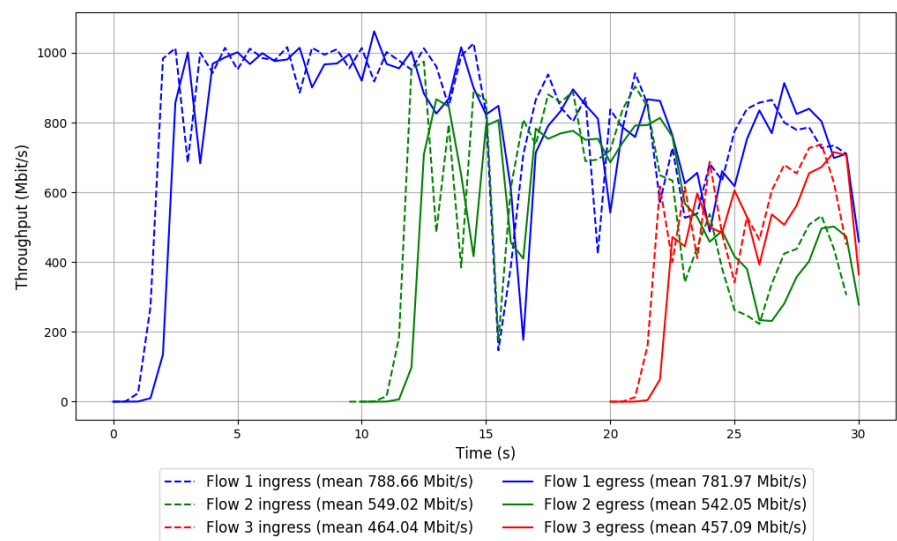


Run 9: Statistics of FillP

Start at: 2018-06-01 01:49:48
End at: 2018-06-01 01:50:18
Local clock offset: 0.189 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2018-06-01 03:58:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 1289.87 Mbit/s
95th percentile per-packet one-way delay: 275.507 ms
Loss rate: 2.29%
-- Flow 1:
Average throughput: 781.97 Mbit/s
95th percentile per-packet one-way delay: 265.372 ms
Loss rate: 1.76%
-- Flow 2:
Average throughput: 542.05 Mbit/s
95th percentile per-packet one-way delay: 269.180 ms
Loss rate: 2.62%
-- Flow 3:
Average throughput: 457.09 Mbit/s
95th percentile per-packet one-way delay: 300.723 ms
Loss rate: 4.21%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-06-01 02:15:03

End at: 2018-06-01 02:15:33

Local clock offset: -0.161 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-06-01 04:00:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 1346.55 Mbit/s

95th percentile per-packet one-way delay: 222.209 ms

Loss rate: 4.62%

-- Flow 1:

Average throughput: 775.86 Mbit/s

95th percentile per-packet one-way delay: 235.939 ms

Loss rate: 3.85%

-- Flow 2:

Average throughput: 597.78 Mbit/s

95th percentile per-packet one-way delay: 214.217 ms

Loss rate: 6.01%

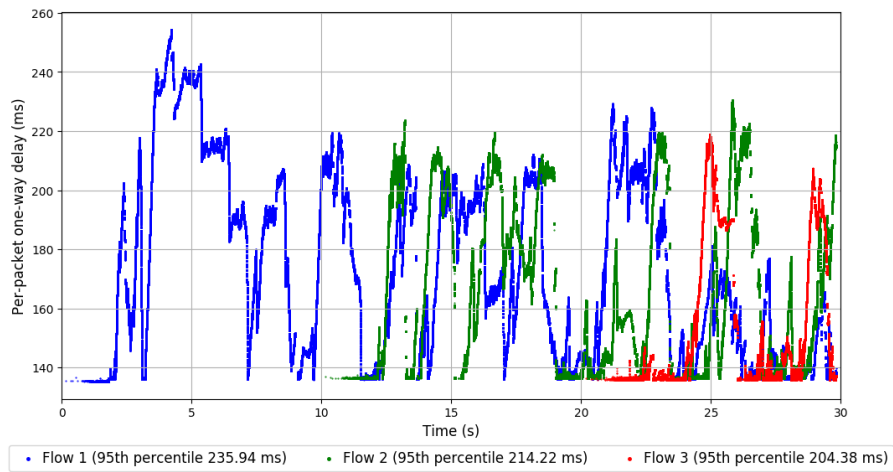
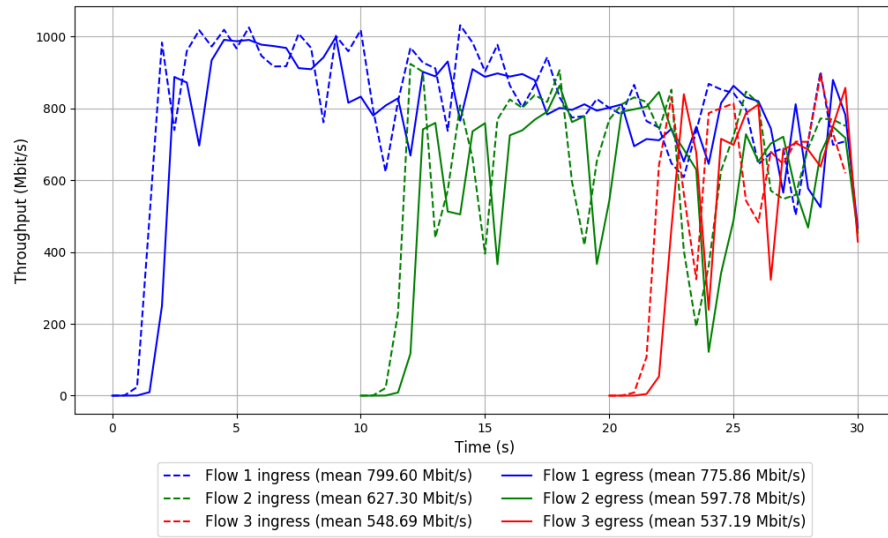
-- Flow 3:

Average throughput: 537.19 Mbit/s

95th percentile per-packet one-way delay: 204.381 ms

Loss rate: 4.81%

Run 10: Report of FillP — Data Link

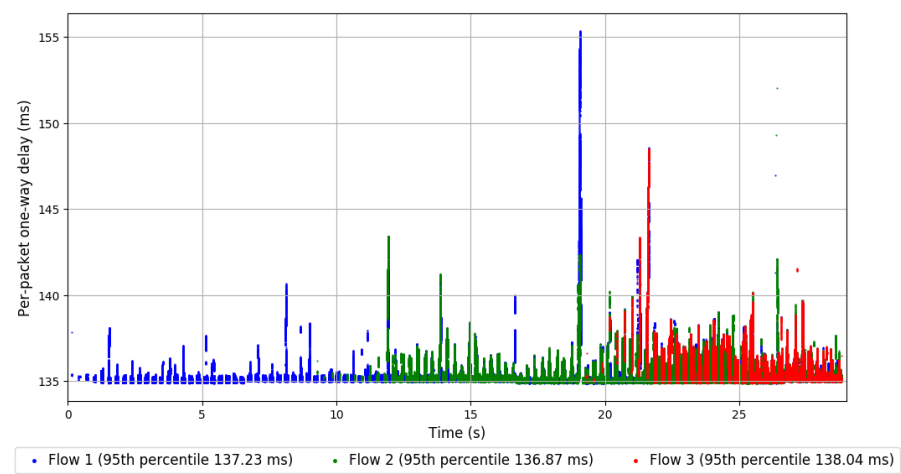
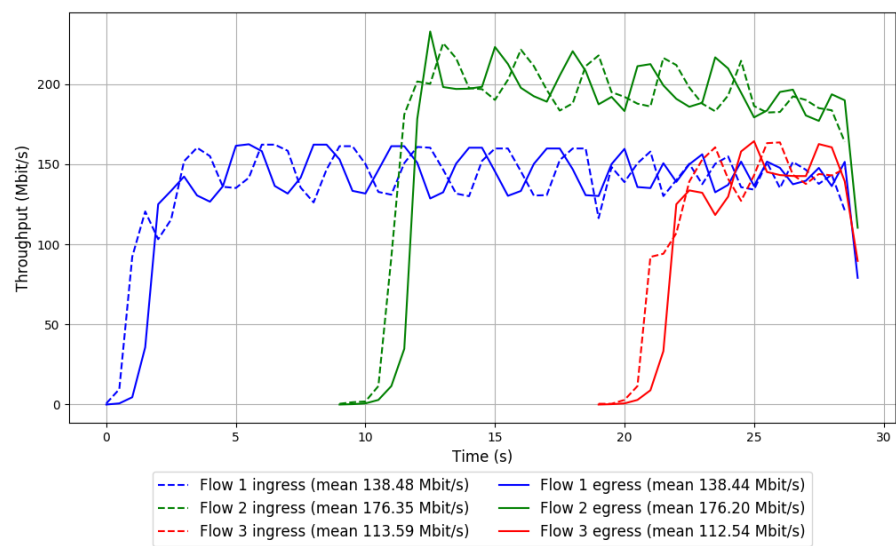


```
Run 1: Statistics of Indigo

Start at: 2018-05-31 22:33:37
End at: 2018-05-31 22:34:07
Local clock offset: -0.488 ms
Remote clock offset: 0.033 ms

# Below is generated by plot.py at 2018-06-01 04:00:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 295.67 Mbit/s
95th percentile per-packet one-way delay: 137.219 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 138.44 Mbit/s
95th percentile per-packet one-way delay: 137.227 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 176.20 Mbit/s
95th percentile per-packet one-way delay: 136.866 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 112.54 Mbit/s
95th percentile per-packet one-way delay: 138.040 ms
Loss rate: 3.66%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-05-31 22:59:00

End at: 2018-05-31 22:59:30

Local clock offset: -0.039 ms

Remote clock offset: -0.28 ms

Below is generated by plot.py at 2018-06-01 04:00:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 340.82 Mbit/s

95th percentile per-packet one-way delay: 139.766 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 177.05 Mbit/s

95th percentile per-packet one-way delay: 138.673 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 172.75 Mbit/s

95th percentile per-packet one-way delay: 140.434 ms

Loss rate: 1.39%

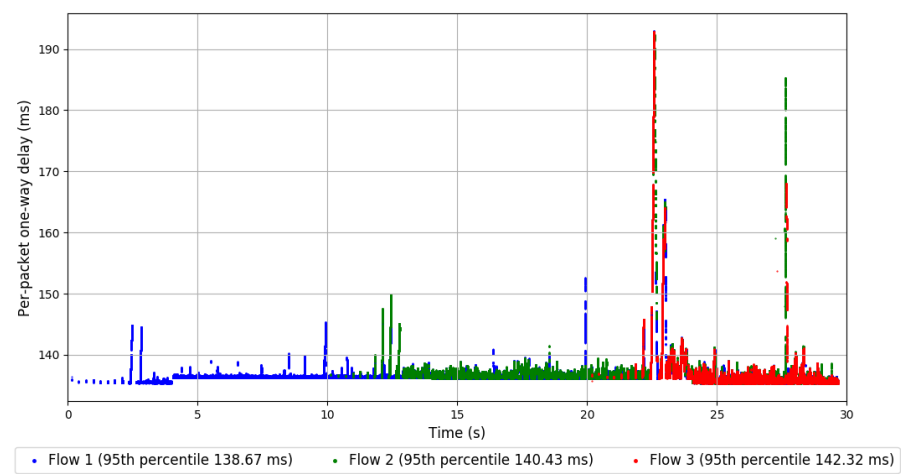
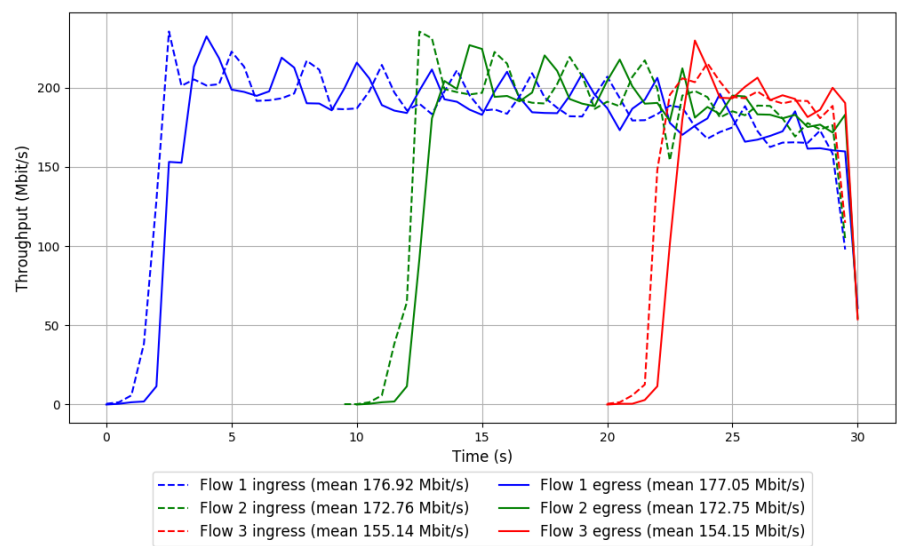
-- Flow 3:

Average throughput: 154.15 Mbit/s

95th percentile per-packet one-way delay: 142.318 ms

Loss rate: 3.39%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-05-31 23:24:36

End at: 2018-05-31 23:25:06

Local clock offset: -0.263 ms

Remote clock offset: 0.109 ms

Below is generated by plot.py at 2018-06-01 04:00:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 256.24 Mbit/s

95th percentile per-packet one-way delay: 138.018 ms

Loss rate: 1.55%

-- Flow 1:

Average throughput: 134.20 Mbit/s

95th percentile per-packet one-way delay: 137.629 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 130.13 Mbit/s

95th percentile per-packet one-way delay: 138.609 ms

Loss rate: 1.52%

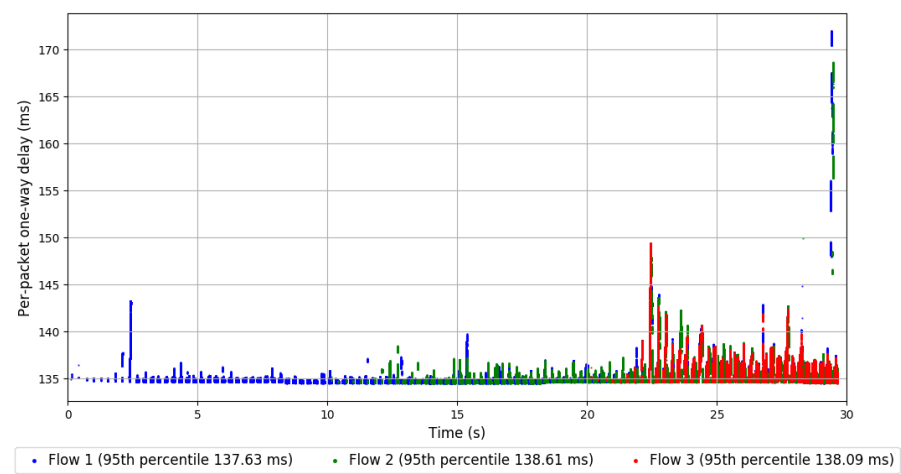
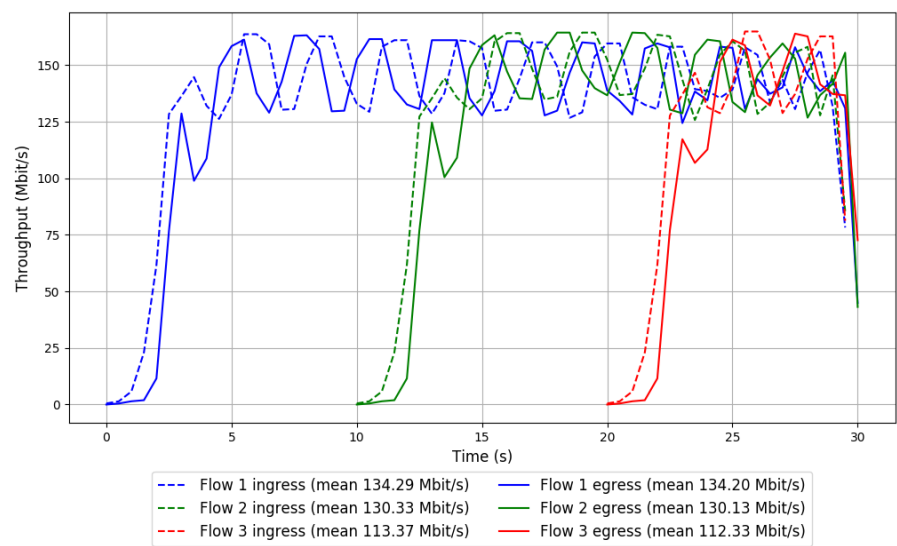
-- Flow 3:

Average throughput: 112.33 Mbit/s

95th percentile per-packet one-way delay: 138.089 ms

Loss rate: 3.67%

Run 3: Report of Indigo — Data Link

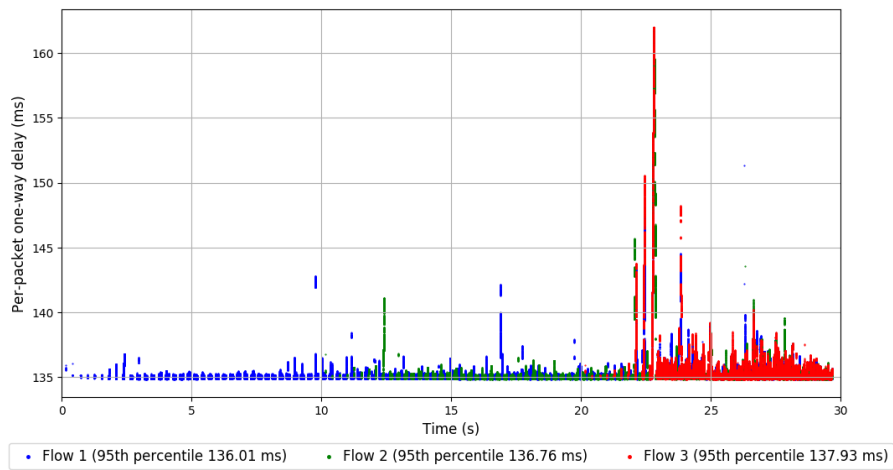
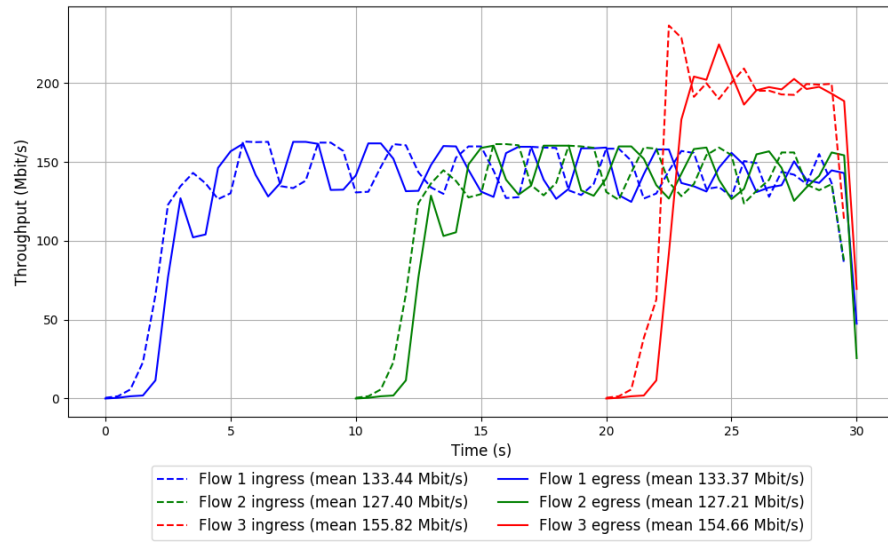


Run 4: Statistics of Indigo

Start at: 2018-05-31 23:49:59
End at: 2018-05-31 23:50:29
Local clock offset: -0.119 ms
Remote clock offset: -0.077 ms

Below is generated by plot.py at 2018-06-01 04:00:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 267.34 Mbit/s
95th percentile per-packet one-way delay: 136.557 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 133.37 Mbit/s
95th percentile per-packet one-way delay: 136.007 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 127.21 Mbit/s
95th percentile per-packet one-way delay: 136.760 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 154.66 Mbit/s
95th percentile per-packet one-way delay: 137.930 ms
Loss rate: 3.51%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-06-01 00:15:14

End at: 2018-06-01 00:15:44

Local clock offset: -0.114 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-06-01 04:00:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 253.43 Mbit/s

95th percentile per-packet one-way delay: 136.454 ms

Loss rate: 1.54%

-- Flow 1:

Average throughput: 133.86 Mbit/s

95th percentile per-packet one-way delay: 136.247 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 127.28 Mbit/s

95th percentile per-packet one-way delay: 136.130 ms

Loss rate: 1.53%

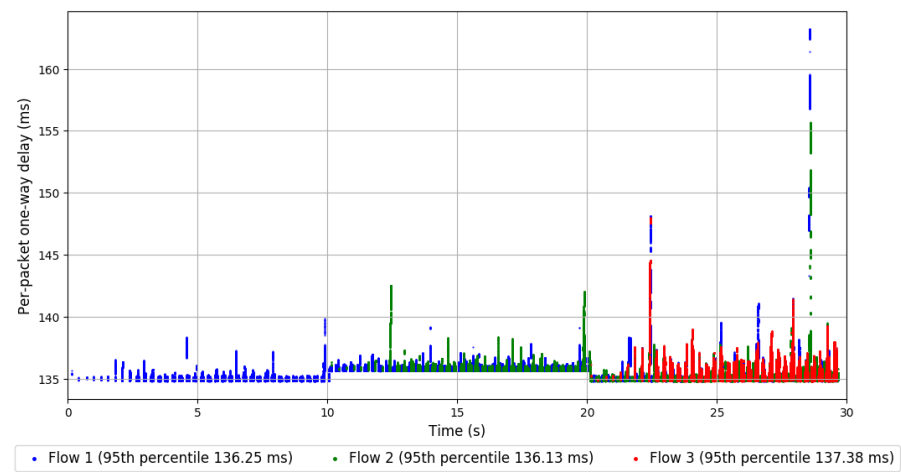
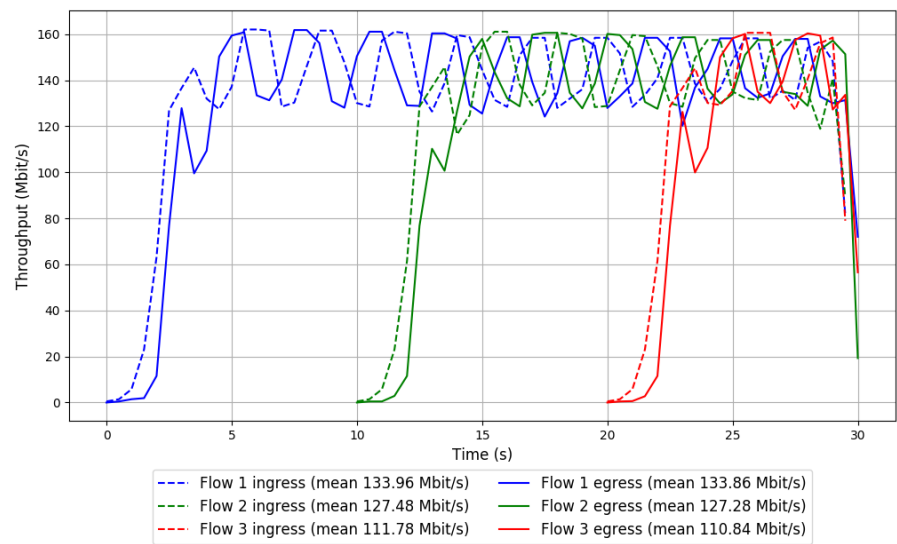
-- Flow 3:

Average throughput: 110.84 Mbit/s

95th percentile per-packet one-way delay: 137.379 ms

Loss rate: 3.63%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-06-01 00:40:40

End at: 2018-06-01 00:41:10

Local clock offset: 0.161 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2018-06-01 04:00:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 253.05 Mbit/s

95th percentile per-packet one-way delay: 139.142 ms

Loss rate: 1.54%

-- Flow 1:

Average throughput: 133.53 Mbit/s

95th percentile per-packet one-way delay: 138.600 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 127.56 Mbit/s

95th percentile per-packet one-way delay: 137.646 ms

Loss rate: 1.56%

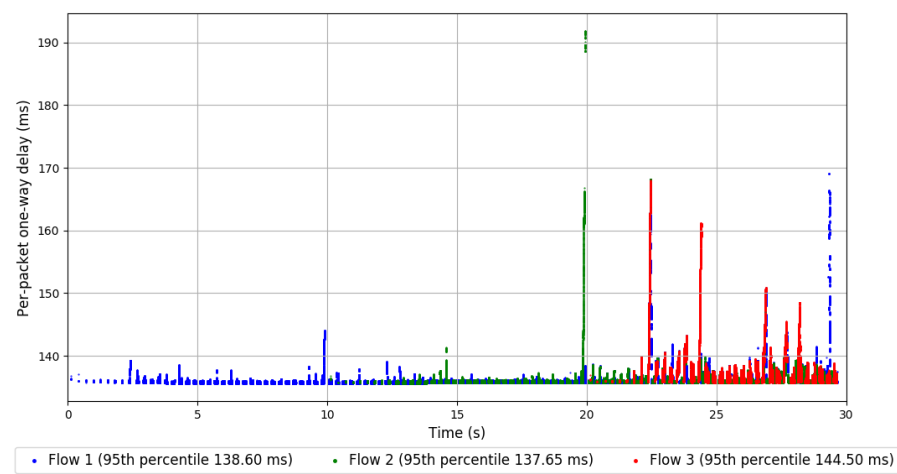
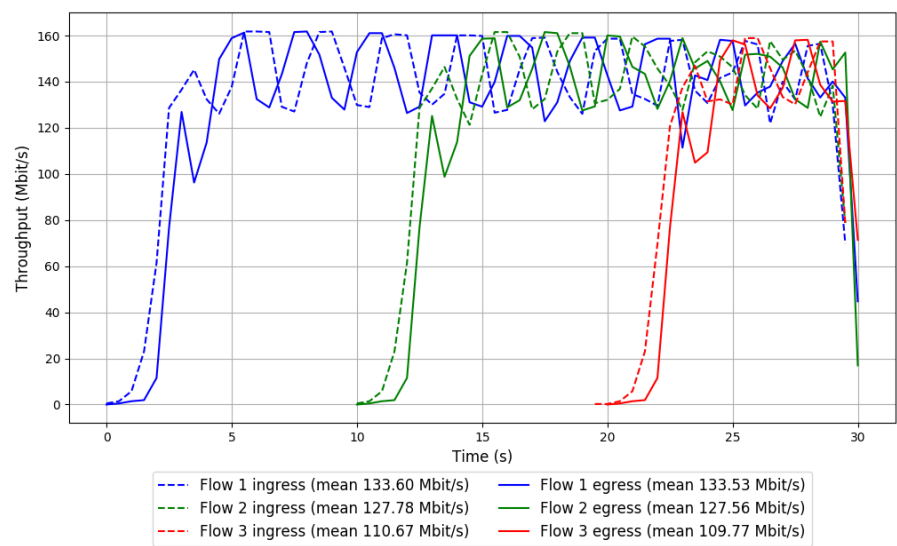
-- Flow 3:

Average throughput: 109.77 Mbit/s

95th percentile per-packet one-way delay: 144.501 ms

Loss rate: 3.62%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-06-01 01:05:59

End at: 2018-06-01 01:06:29

Local clock offset: 0.376 ms

Remote clock offset: 0.401 ms

Below is generated by plot.py at 2018-06-01 04:00:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 253.25 Mbit/s

95th percentile per-packet one-way delay: 140.135 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 132.55 Mbit/s

95th percentile per-packet one-way delay: 139.622 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 129.05 Mbit/s

95th percentile per-packet one-way delay: 140.673 ms

Loss rate: 1.47%

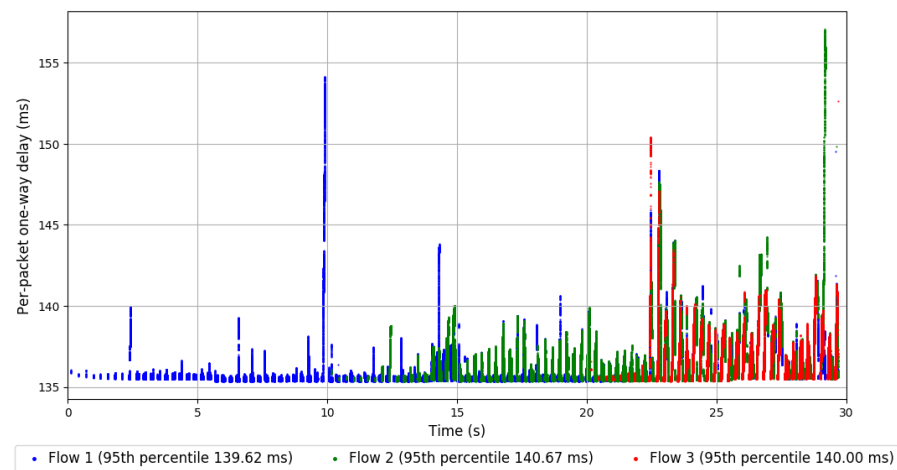
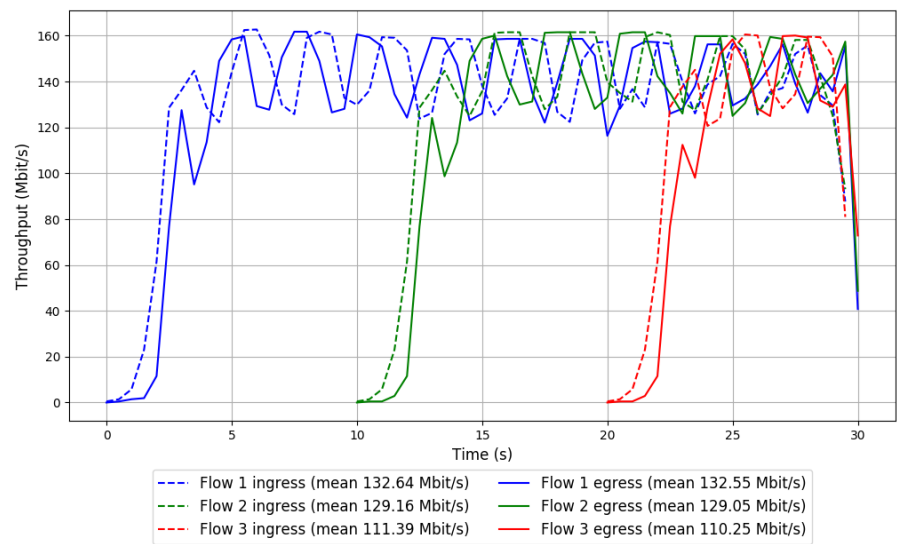
-- Flow 3:

Average throughput: 110.25 Mbit/s

95th percentile per-packet one-way delay: 139.997 ms

Loss rate: 3.65%

Run 7: Report of Indigo — Data Link

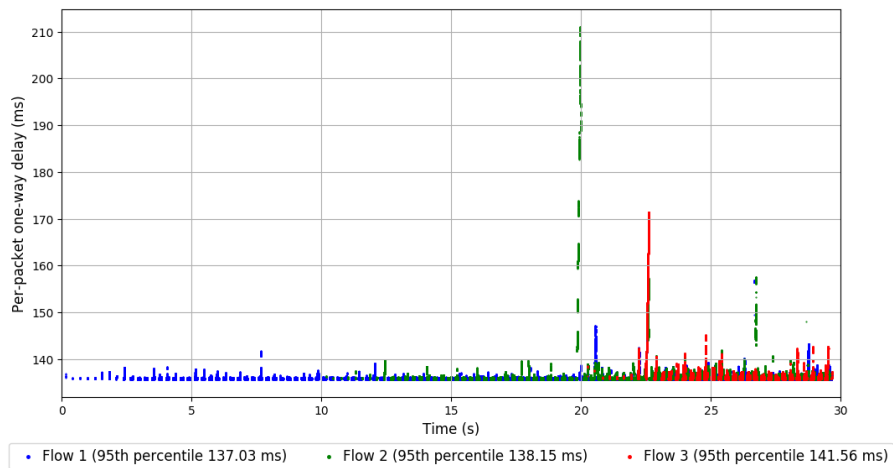
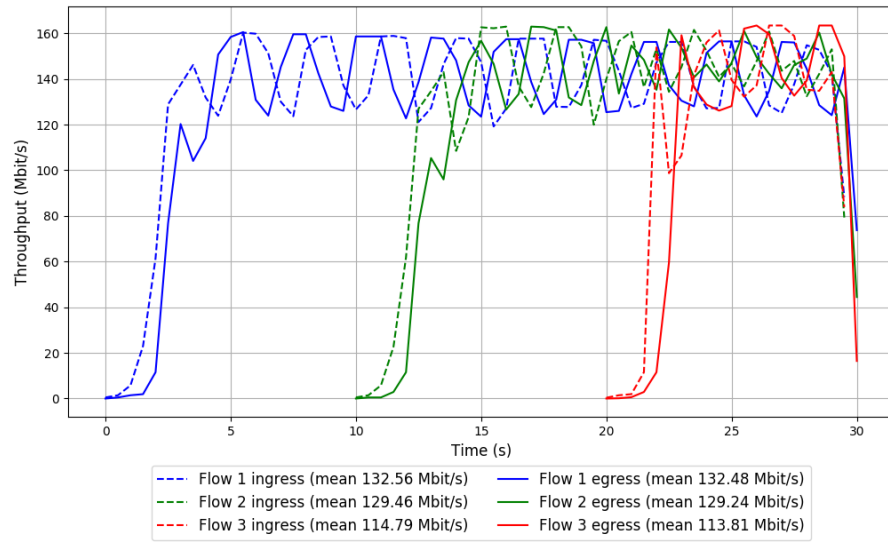


Run 8: Statistics of Indigo

Start at: 2018-06-01 01:31:17
End at: 2018-06-01 01:31:47
Local clock offset: -0.44 ms
Remote clock offset: -0.379 ms

Below is generated by plot.py at 2018-06-01 04:00:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 253.75 Mbit/s
95th percentile per-packet one-way delay: 137.846 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 132.48 Mbit/s
95th percentile per-packet one-way delay: 137.030 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 129.24 Mbit/s
95th percentile per-packet one-way delay: 138.152 ms
Loss rate: 1.56%
-- Flow 3:
Average throughput: 113.81 Mbit/s
95th percentile per-packet one-way delay: 141.565 ms
Loss rate: 3.64%

Run 8: Report of Indigo — Data Link

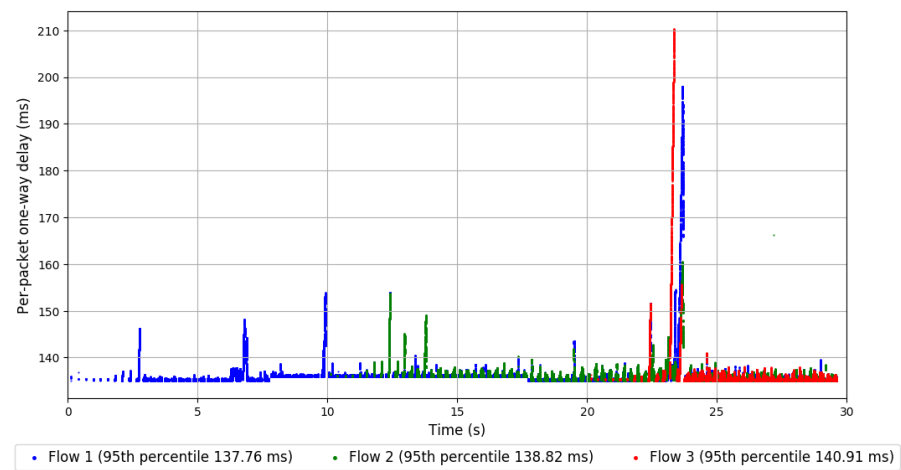
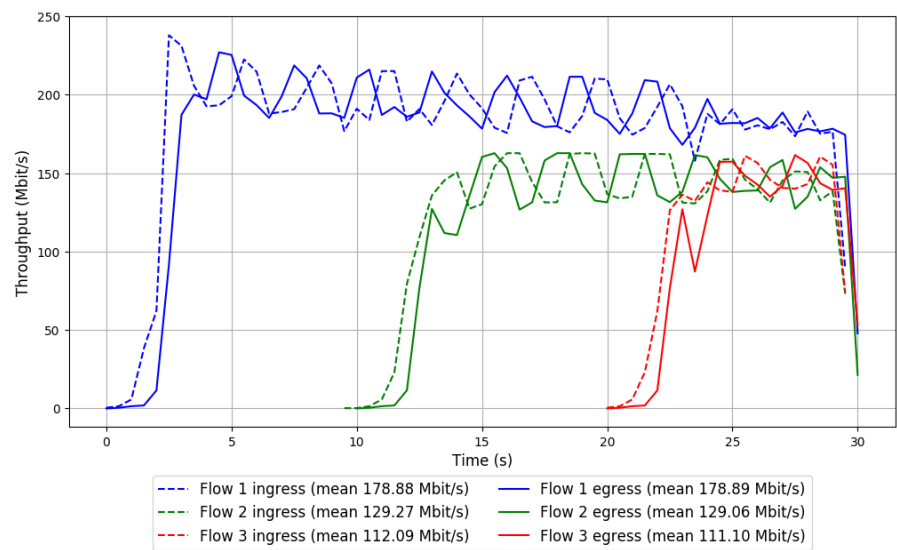


Run 9: Statistics of Indigo

Start at: 2018-06-01 01:56:16
End at: 2018-06-01 01:56:46
Local clock offset: 0.206 ms
Remote clock offset: -0.004 ms

Below is generated by plot.py at 2018-06-01 04:00:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 299.77 Mbit/s
95th percentile per-packet one-way delay: 138.279 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 178.89 Mbit/s
95th percentile per-packet one-way delay: 137.762 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 129.06 Mbit/s
95th percentile per-packet one-way delay: 138.823 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 111.10 Mbit/s
95th percentile per-packet one-way delay: 140.911 ms
Loss rate: 3.64%

Run 9: Report of Indigo — Data Link

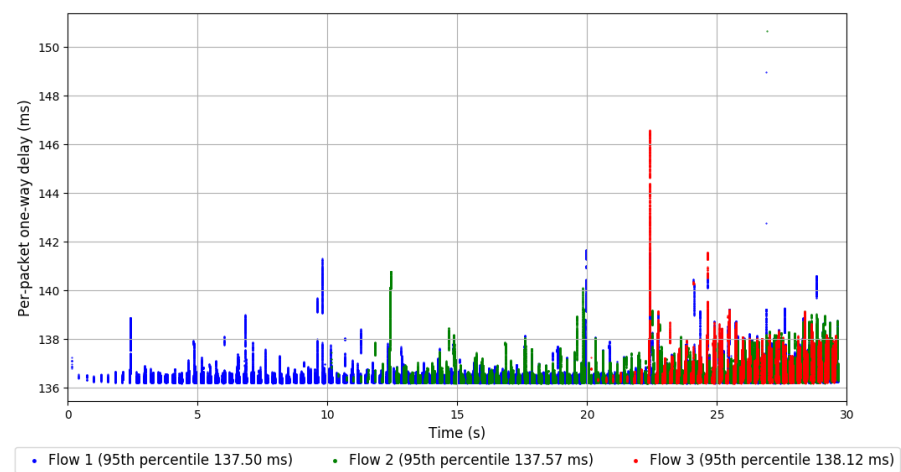
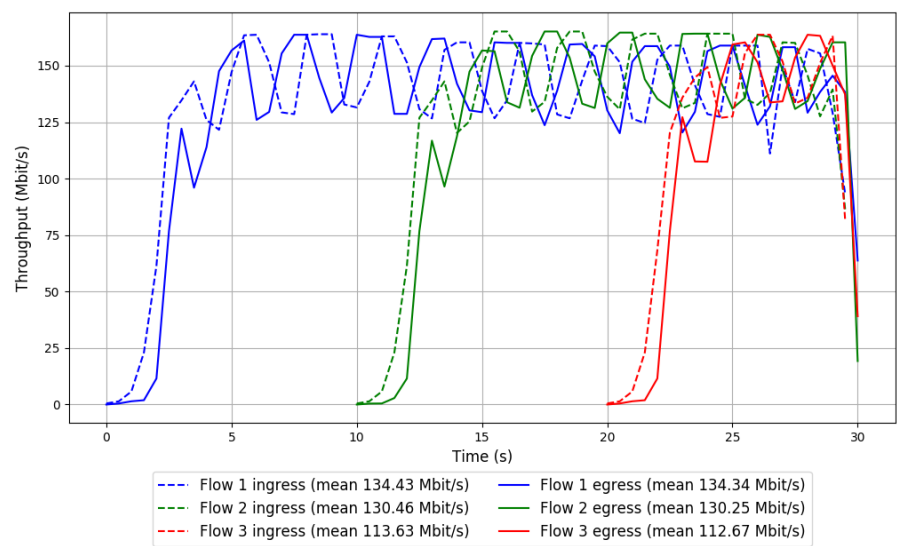


Run 10: Statistics of Indigo

Start at: 2018-06-01 02:21:35
End at: 2018-06-01 02:22:05
Local clock offset: 0.12 ms
Remote clock offset: -0.395 ms

Below is generated by plot.py at 2018-06-01 04:00:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 256.36 Mbit/s
95th percentile per-packet one-way delay: 137.683 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 134.34 Mbit/s
95th percentile per-packet one-way delay: 137.495 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 130.25 Mbit/s
95th percentile per-packet one-way delay: 137.574 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 112.67 Mbit/s
95th percentile per-packet one-way delay: 138.116 ms
Loss rate: 3.70%

Run 10: Report of Indigo — Data Link

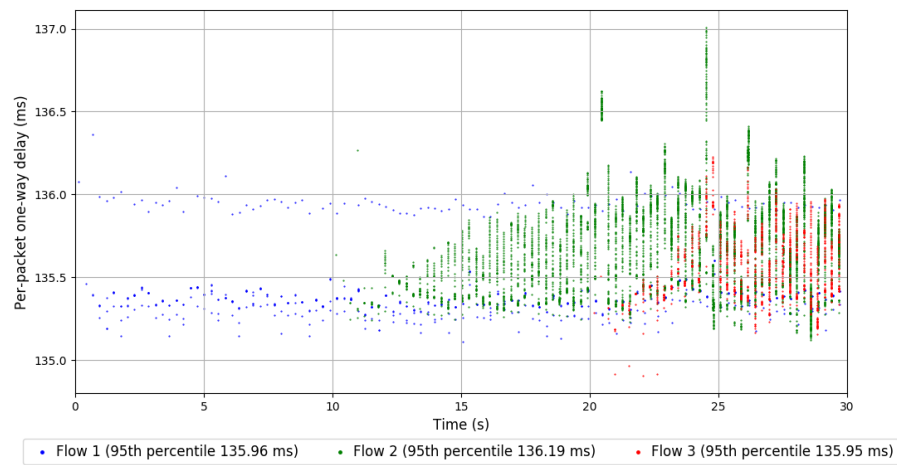
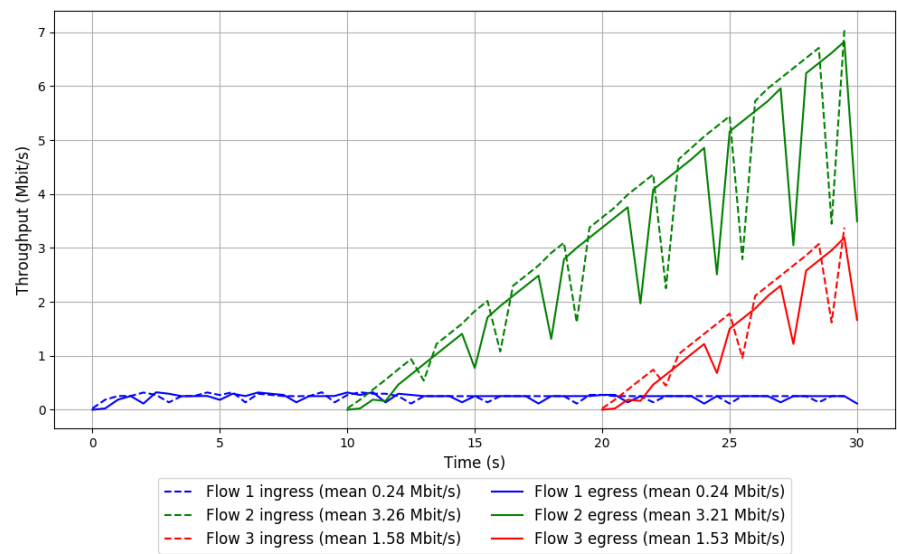


```
Run 1: Statistics of LEDBAT

Start at: 2018-05-31 22:29:22
End at: 2018-05-31 22:29:52
Local clock offset: -0.351 ms
Remote clock offset: 0.072 ms

# Below is generated by plot.py at 2018-06-01 04:00:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.85 Mbit/s
95th percentile per-packet one-way delay: 136.131 ms
Loss rate: 3.09%
-- Flow 1:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 135.960 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 3.21 Mbit/s
95th percentile per-packet one-way delay: 136.191 ms
Loss rate: 2.75%
-- Flow 3:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 135.946 ms
Loss rate: 5.55%
```

Run 1: Report of LEDBAT — Data Link

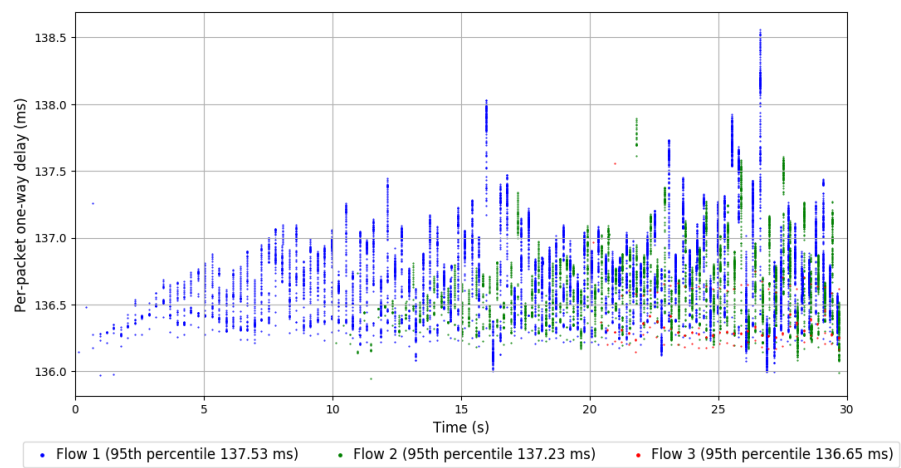
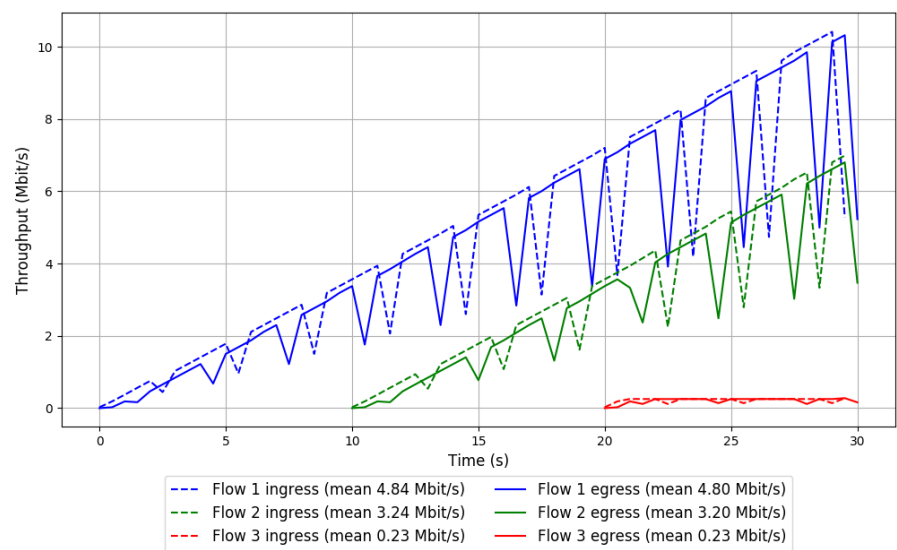


Run 2: Statistics of LEDBAT

Start at: 2018-05-31 22:54:44
End at: 2018-05-31 22:55:14
Local clock offset: -0.255 ms
Remote clock offset: -0.271 ms

Below is generated by plot.py at 2018-06-01 04:00:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.97 Mbit/s
95th percentile per-packet one-way delay: 137.402 ms
Loss rate: 2.12%
-- Flow 1:
Average throughput: 4.80 Mbit/s
95th percentile per-packet one-way delay: 137.527 ms
Loss rate: 1.83%
-- Flow 2:
Average throughput: 3.20 Mbit/s
95th percentile per-packet one-way delay: 137.231 ms
Loss rate: 2.74%
-- Flow 3:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 136.649 ms
Loss rate: 2.58%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-05-31 23:20:20

End at: 2018-05-31 23:20:50

Local clock offset: 0.292 ms

Remote clock offset: 0.152 ms

Below is generated by plot.py at 2018-06-01 04:00:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.60 Mbit/s

95th percentile per-packet one-way delay: 137.299 ms

Loss rate: 2.40%

-- Flow 1:

Average throughput: 4.84 Mbit/s

95th percentile per-packet one-way delay: 137.375 ms

Loss rate: 1.82%

-- Flow 2:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 137.049 ms

Loss rate: 3.34%

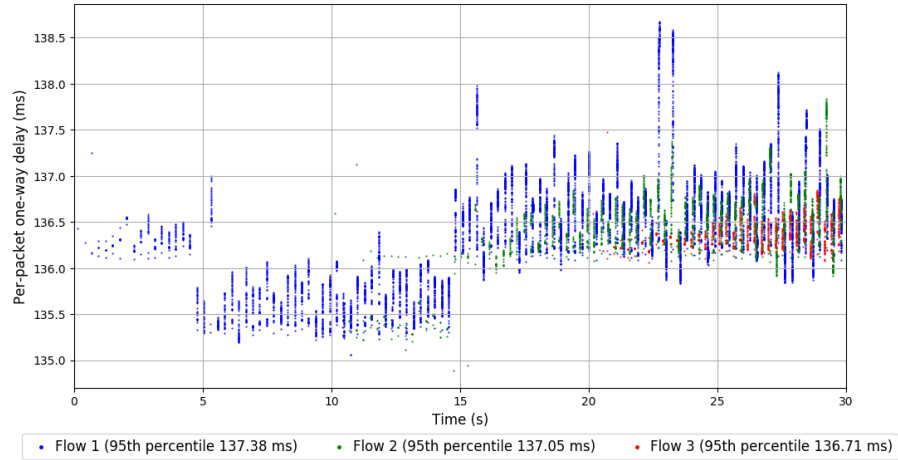
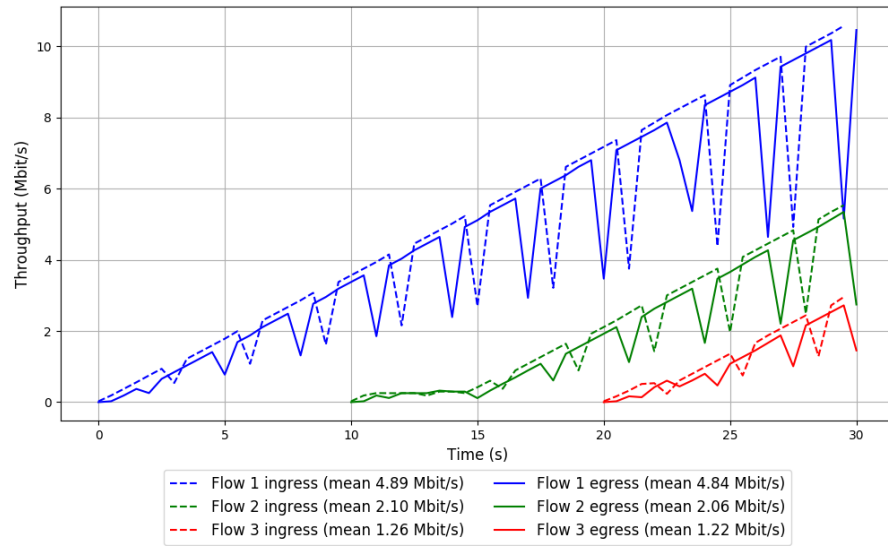
-- Flow 3:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 136.712 ms

Loss rate: 6.07%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-05-31 23:45:46

End at: 2018-05-31 23:46:16

Local clock offset: 0.09 ms

Remote clock offset: -0.47 ms

Below is generated by plot.py at 2018-06-01 04:00:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.43 Mbit/s

95th percentile per-packet one-way delay: 136.884 ms

Loss rate: 2.24%

-- Flow 1:

Average throughput: 4.86 Mbit/s

95th percentile per-packet one-way delay: 136.907 ms

Loss rate: 1.82%

-- Flow 2:

Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 136.141 ms

Loss rate: 4.79%

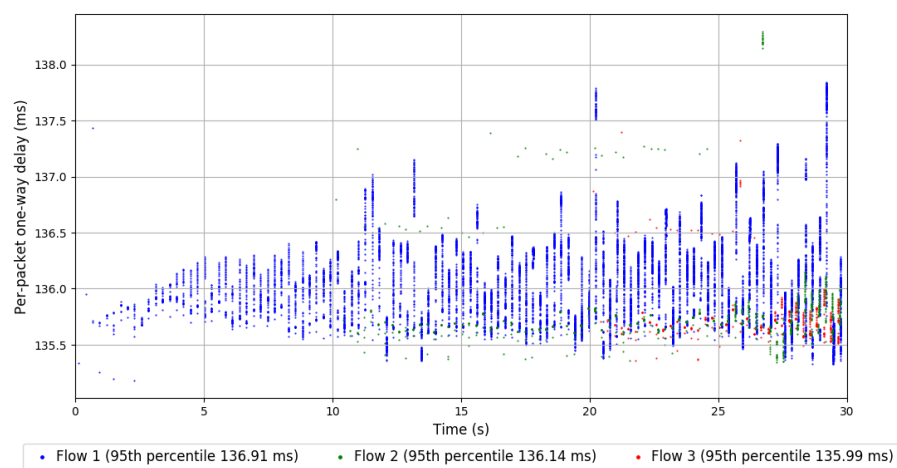
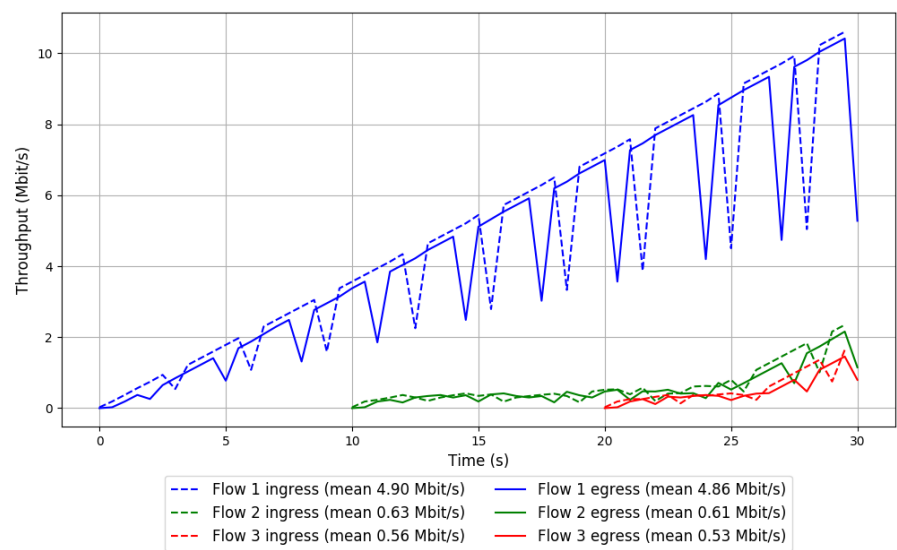
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 135.988 ms

Loss rate: 7.69%

Run 4: Report of LEDBAT — Data Link

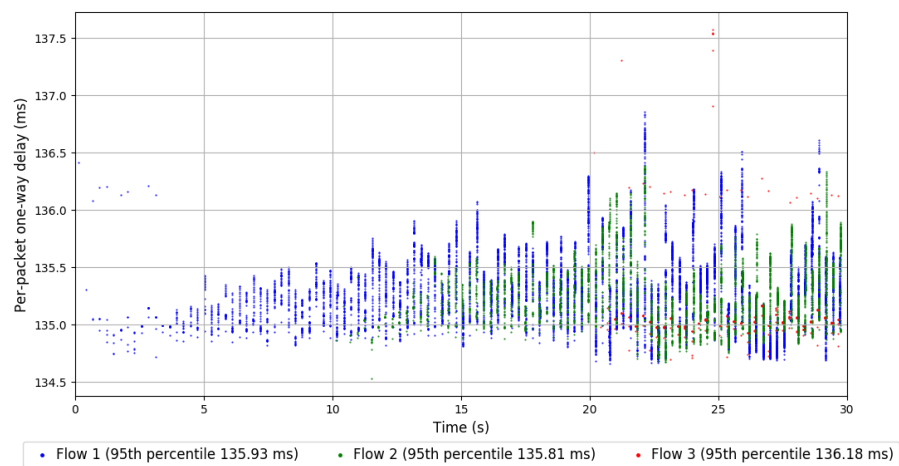
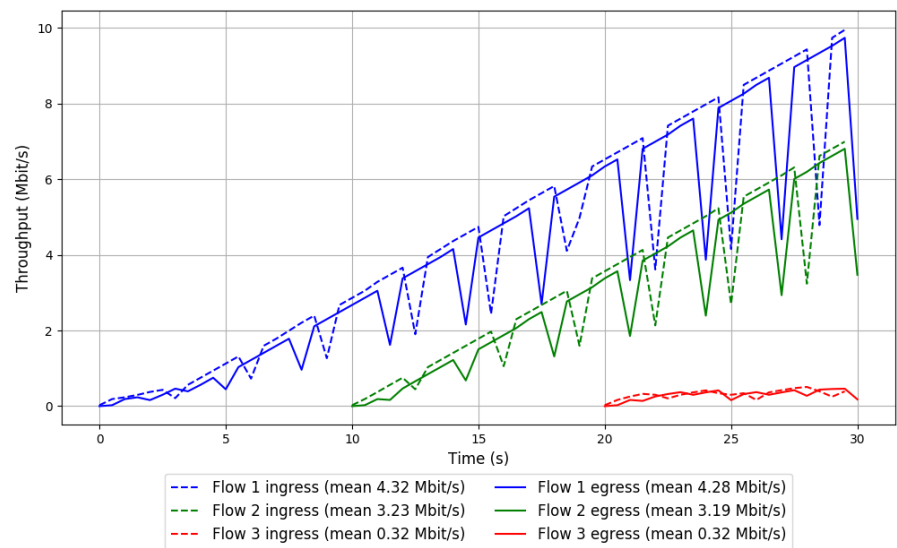


Run 5: Statistics of LEDBAT

Start at: 2018-06-01 00:11:06
End at: 2018-06-01 00:11:36
Local clock offset: -0.316 ms
Remote clock offset: -0.031 ms

Below is generated by plot.py at 2018-06-01 04:00:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.49 Mbit/s
95th percentile per-packet one-way delay: 135.888 ms
Loss rate: 2.22%
-- Flow 1:
Average throughput: 4.28 Mbit/s
95th percentile per-packet one-way delay: 135.928 ms
Loss rate: 1.94%
-- Flow 2:
Average throughput: 3.19 Mbit/s
95th percentile per-packet one-way delay: 135.815 ms
Loss rate: 2.74%
-- Flow 3:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 136.177 ms
Loss rate: 3.35%

Run 5: Report of LEDBAT — Data Link

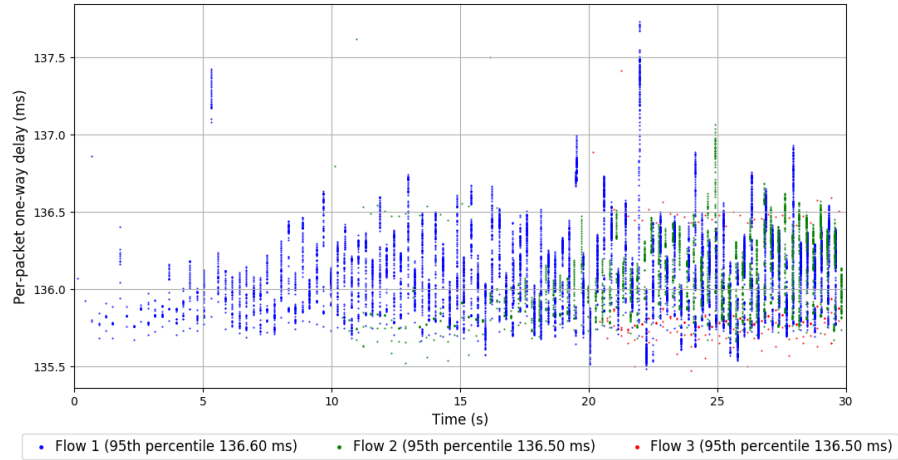
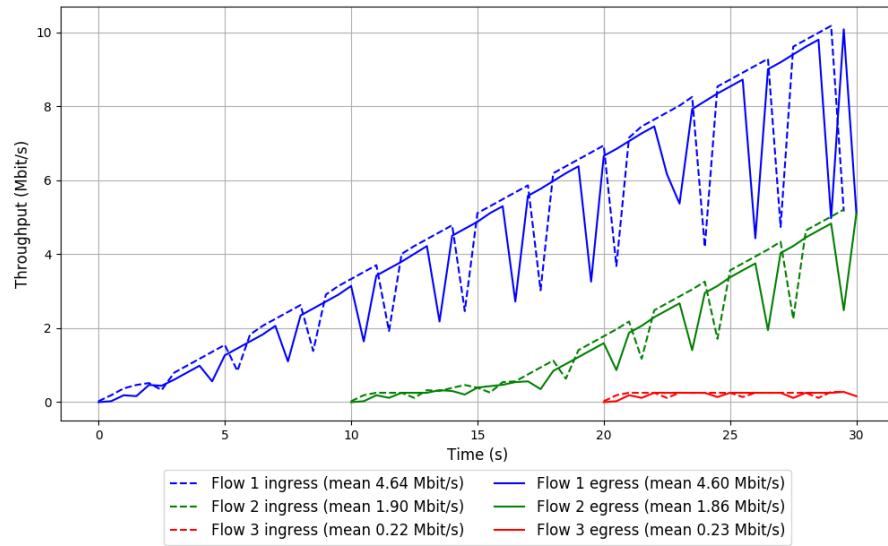


Run 6: Statistics of LEDBAT

Start at: 2018-06-01 00:36:23
End at: 2018-06-01 00:36:53
Local clock offset: -0.053 ms
Remote clock offset: -0.014 ms

Below is generated by plot.py at 2018-06-01 04:00:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.86 Mbit/s
95th percentile per-packet one-way delay: 136.564 ms
Loss rate: 2.22%
-- Flow 1:
Average throughput: 4.60 Mbit/s
95th percentile per-packet one-way delay: 136.601 ms
Loss rate: 1.87%
-- Flow 2:
Average throughput: 1.86 Mbit/s
95th percentile per-packet one-way delay: 136.499 ms
Loss rate: 3.47%
-- Flow 3:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 136.497 ms
Loss rate: 2.58%

Run 6: Report of LEDBAT — Data Link

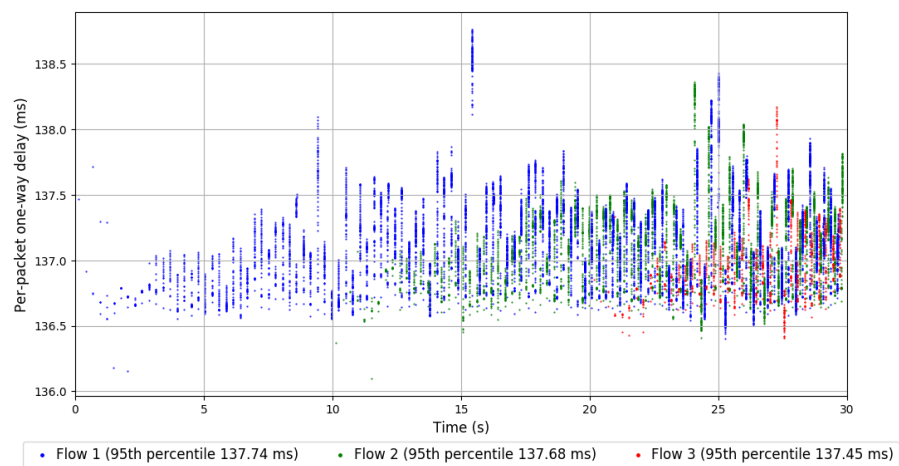
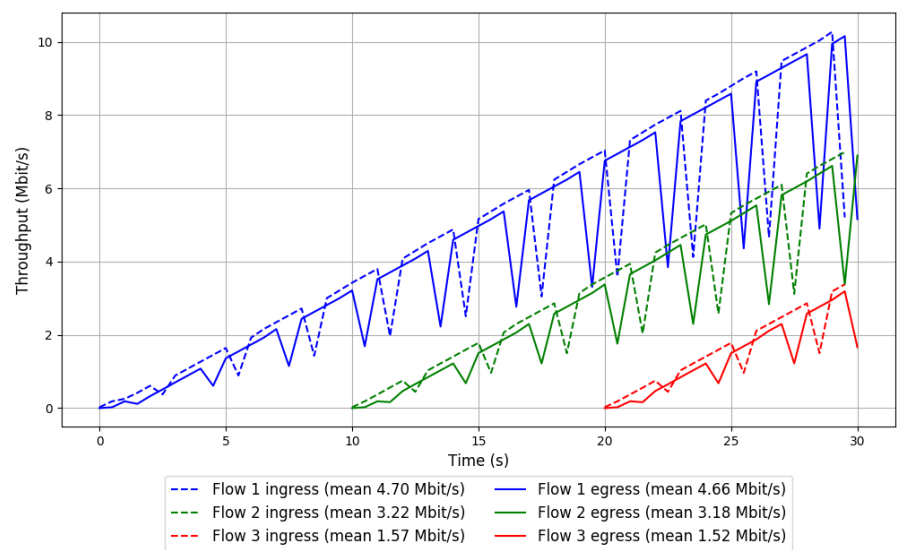


Run 7: Statistics of LEDBAT

Start at: 2018-06-01 01:01:43
End at: 2018-06-01 01:02:13
Local clock offset: 0.594 ms
Remote clock offset: -0.338 ms

Below is generated by plot.py at 2018-06-01 04:00:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.23 Mbit/s
95th percentile per-packet one-way delay: 137.712 ms
Loss rate: 2.38%
-- Flow 1:
Average throughput: 4.66 Mbit/s
95th percentile per-packet one-way delay: 137.743 ms
Loss rate: 1.86%
-- Flow 2:
Average throughput: 3.18 Mbit/s
95th percentile per-packet one-way delay: 137.681 ms
Loss rate: 2.74%
-- Flow 3:
Average throughput: 1.52 Mbit/s
95th percentile per-packet one-way delay: 137.447 ms
Loss rate: 5.55%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-06-01 01:27:03

End at: 2018-06-01 01:27:33

Local clock offset: -0.221 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-06-01 04:00:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.55 Mbit/s

95th percentile per-packet one-way delay: 136.517 ms

Loss rate: 2.95%

-- Flow 1:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 136.294 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 3.20 Mbit/s

95th percentile per-packet one-way delay: 136.537 ms

Loss rate: 2.74%

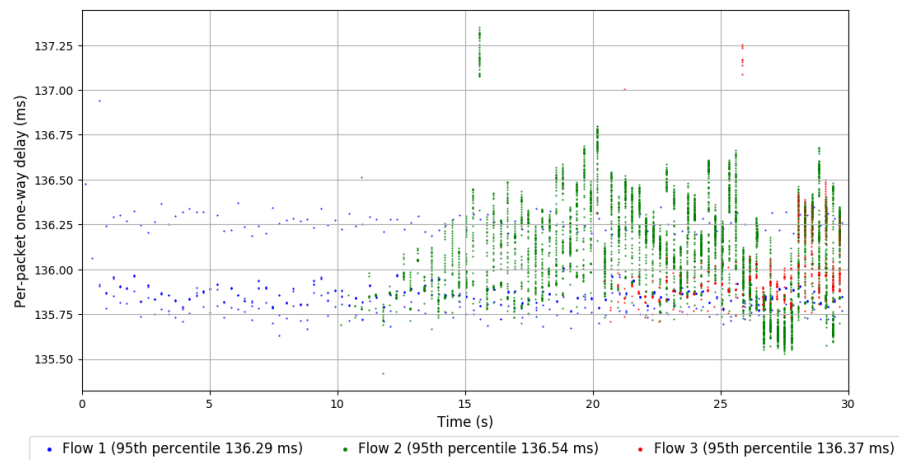
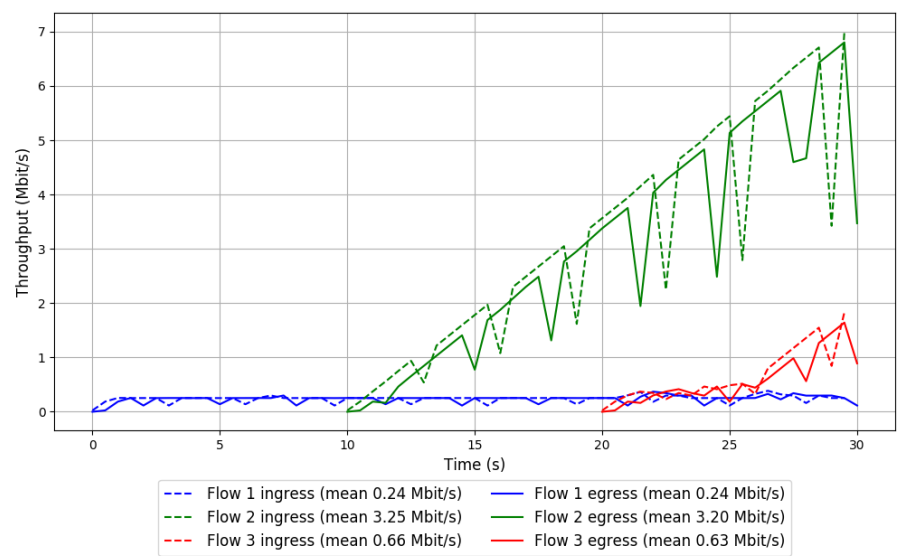
-- Flow 3:

Average throughput: 0.63 Mbit/s

95th percentile per-packet one-way delay: 136.366 ms

Loss rate: 7.30%

Run 8: Report of LEDBAT — Data Link

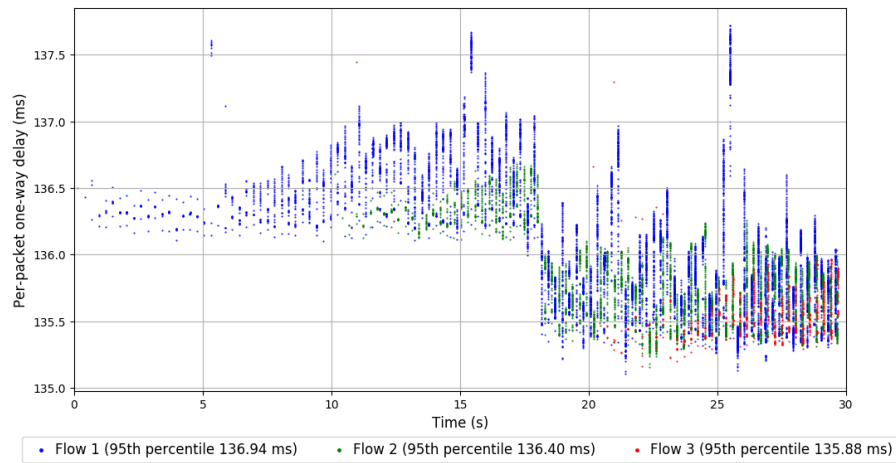
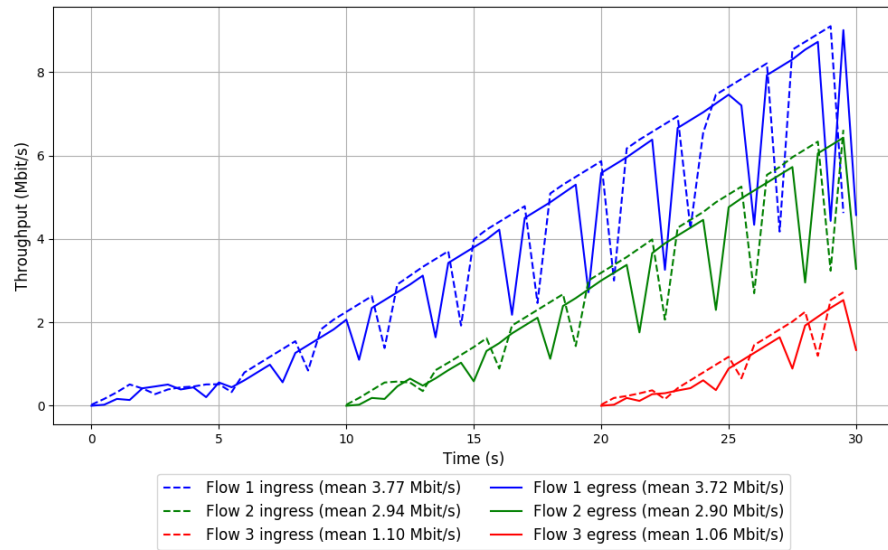


Run 9: Statistics of LEDBAT

Start at: 2018-06-01 01:52:06
End at: 2018-06-01 01:52:36
Local clock offset: -0.166 ms
Remote clock offset: -0.363 ms

Below is generated by plot.py at 2018-06-01 04:00:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.97 Mbit/s
95th percentile per-packet one-way delay: 136.855 ms
Loss rate: 2.58%
-- Flow 1:
Average throughput: 3.72 Mbit/s
95th percentile per-packet one-way delay: 136.944 ms
Loss rate: 2.06%
-- Flow 2:
Average throughput: 2.90 Mbit/s
95th percentile per-packet one-way delay: 136.402 ms
Loss rate: 2.86%
-- Flow 3:
Average throughput: 1.06 Mbit/s
95th percentile per-packet one-way delay: 135.878 ms
Loss rate: 6.42%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-06-01 02:17:24

End at: 2018-06-01 02:17:54

Local clock offset: -0.327 ms

Remote clock offset: 0.064 ms

Below is generated by plot.py at 2018-06-01 04:00:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.05 Mbit/s

95th percentile per-packet one-way delay: 136.453 ms

Loss rate: 2.45%

-- Flow 1:

Average throughput: 3.78 Mbit/s

95th percentile per-packet one-way delay: 136.381 ms

Loss rate: 2.04%

-- Flow 2:

Average throughput: 3.21 Mbit/s

95th percentile per-packet one-way delay: 136.514 ms

Loss rate: 2.73%

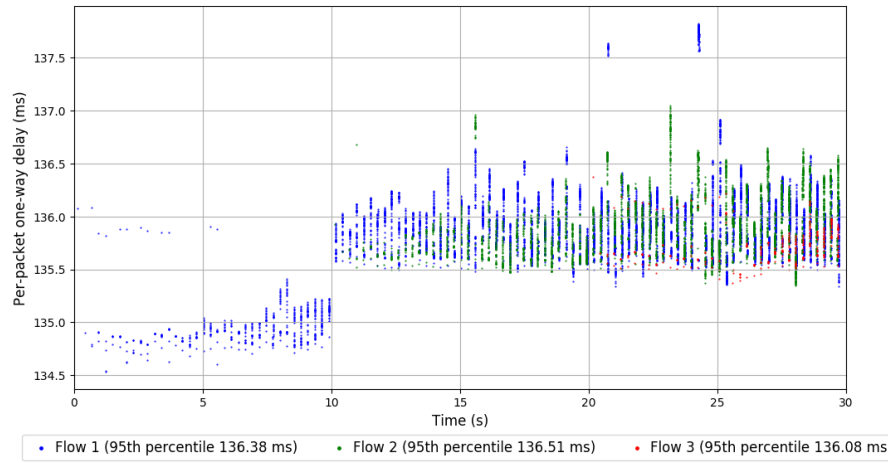
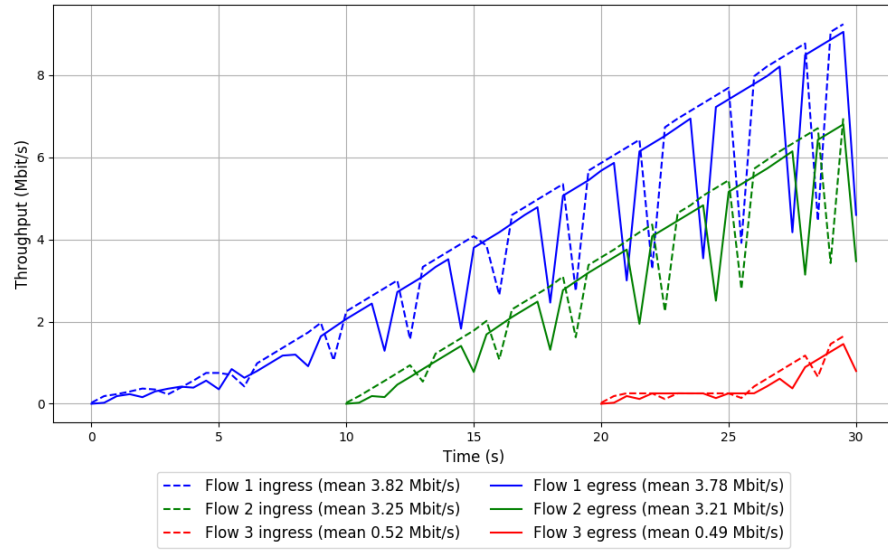
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 136.076 ms

Loss rate: 8.25%

Run 10: Report of LEDBAT — Data Link

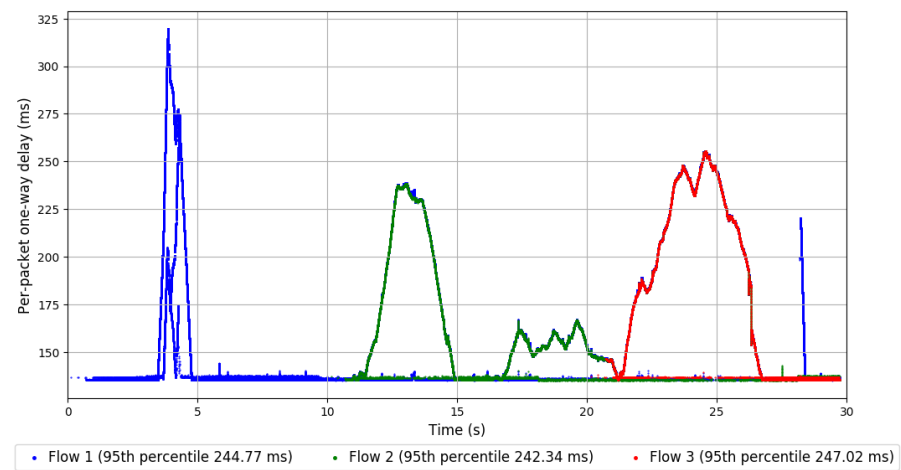
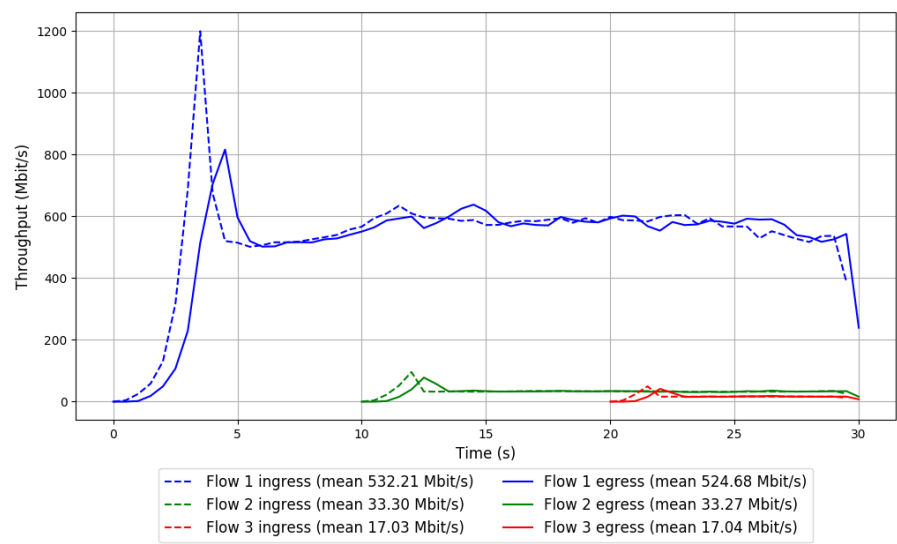


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-05-31 22:36:55
End at: 2018-05-31 22:37:25
Local clock offset: -0.162 ms
Remote clock offset: 0.072 ms

# Below is generated by plot.py at 2018-06-01 04:00:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 552.20 Mbit/s
95th percentile per-packet one-way delay: 244.710 ms
Loss rate: 2.29%
-- Flow 1:
Average throughput: 524.68 Mbit/s
95th percentile per-packet one-way delay: 244.774 ms
Loss rate: 2.31%
-- Flow 2:
Average throughput: 33.27 Mbit/s
95th percentile per-packet one-way delay: 242.337 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 17.04 Mbit/s
95th percentile per-packet one-way delay: 247.016 ms
Loss rate: 2.74%
```


Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-31 23:02:24

End at: 2018-05-31 23:02:54

Local clock offset: -0.304 ms

Remote clock offset: 0.122 ms

Below is generated by plot.py at 2018-06-01 04:00:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 558.27 Mbit/s

95th percentile per-packet one-way delay: 252.737 ms

Loss rate: 2.46%

-- Flow 1:

Average throughput: 534.70 Mbit/s

95th percentile per-packet one-way delay: 252.884 ms

Loss rate: 2.49%

-- Flow 2:

Average throughput: 33.45 Mbit/s

95th percentile per-packet one-way delay: 251.622 ms

Loss rate: 1.62%

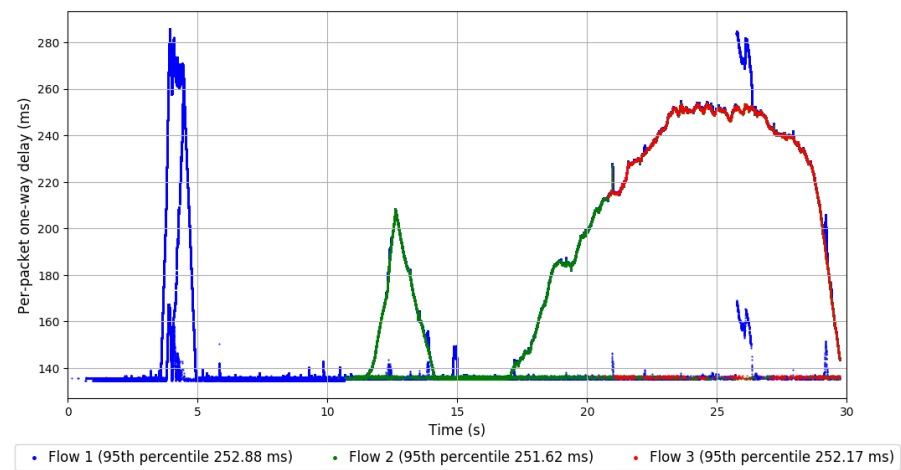
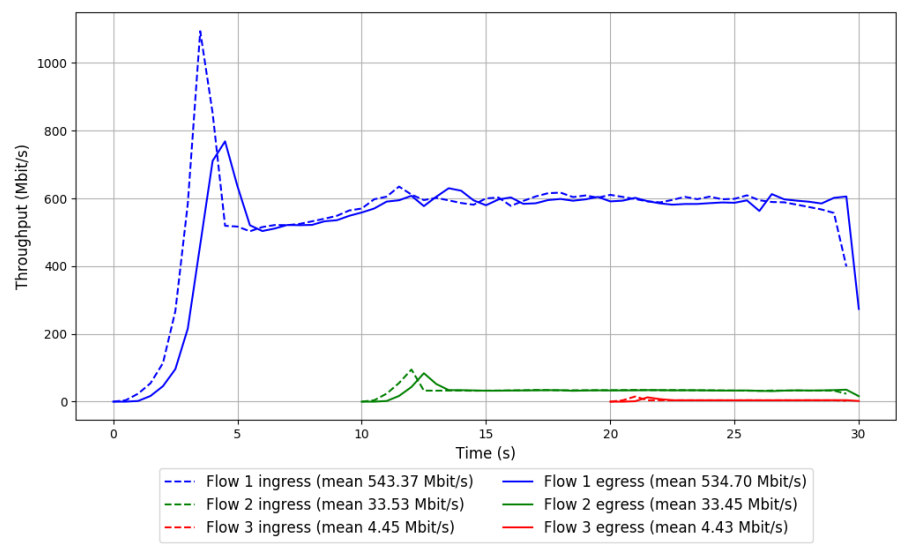
-- Flow 3:

Average throughput: 4.43 Mbit/s

95th percentile per-packet one-way delay: 252.168 ms

Loss rate: 3.12%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-05-31 23:27:47

End at: 2018-05-31 23:28:17

Local clock offset: -0.08 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2018-06-01 04:00:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 545.16 Mbit/s

95th percentile per-packet one-way delay: 252.963 ms

Loss rate: 2.26%

-- Flow 1:

Average throughput: 502.76 Mbit/s

95th percentile per-packet one-way delay: 253.193 ms

Loss rate: 2.25%

-- Flow 2:

Average throughput: 33.47 Mbit/s

95th percentile per-packet one-way delay: 251.859 ms

Loss rate: 1.62%

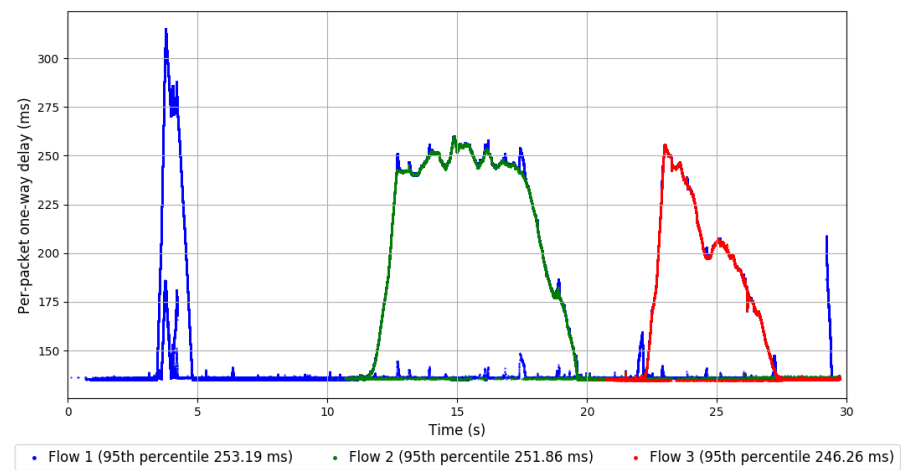
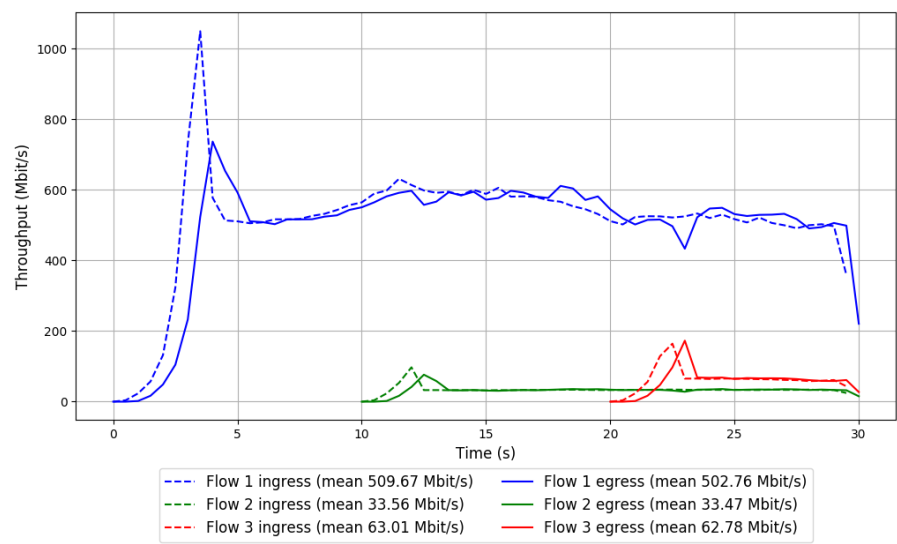
-- Flow 3:

Average throughput: 62.78 Mbit/s

95th percentile per-packet one-way delay: 246.259 ms

Loss rate: 3.10%

Run 3: Report of PCC-Allegro — Data Link

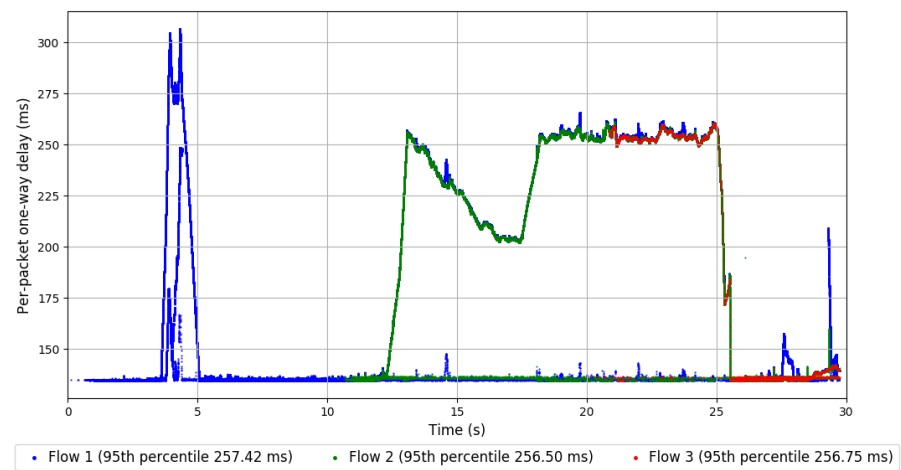
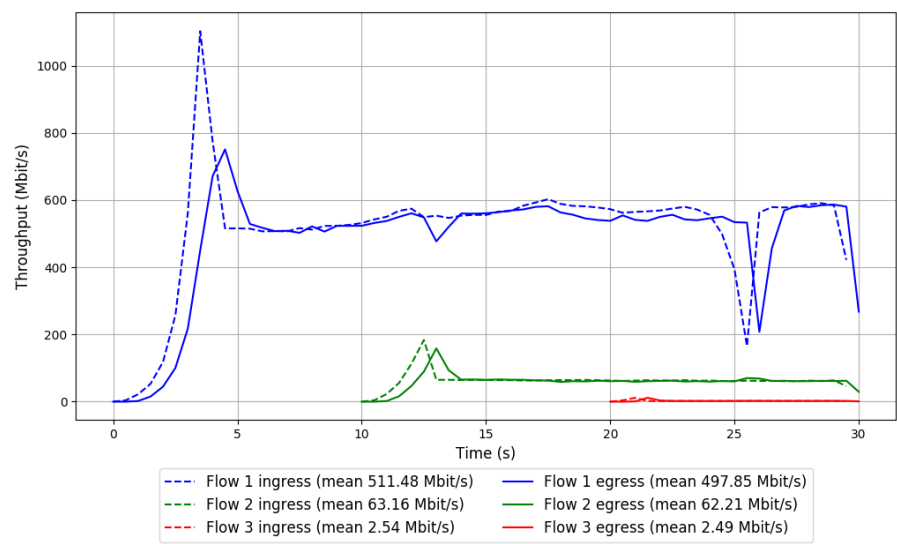


Run 4: Statistics of PCC-Allegro

Start at: 2018-05-31 23:53:13
End at: 2018-05-31 23:53:43
Local clock offset: -0.291 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2018-06-01 04:00:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 539.79 Mbit/s
95th percentile per-packet one-way delay: 257.293 ms
Loss rate: 3.50%
-- Flow 1:
Average throughput: 497.85 Mbit/s
95th percentile per-packet one-way delay: 257.420 ms
Loss rate: 3.55%
-- Flow 2:
Average throughput: 62.21 Mbit/s
95th percentile per-packet one-way delay: 256.497 ms
Loss rate: 2.86%
-- Flow 3:
Average throughput: 2.49 Mbit/s
95th percentile per-packet one-way delay: 256.751 ms
Loss rate: 4.35%

Run 4: Report of PCC-Allegro — Data Link

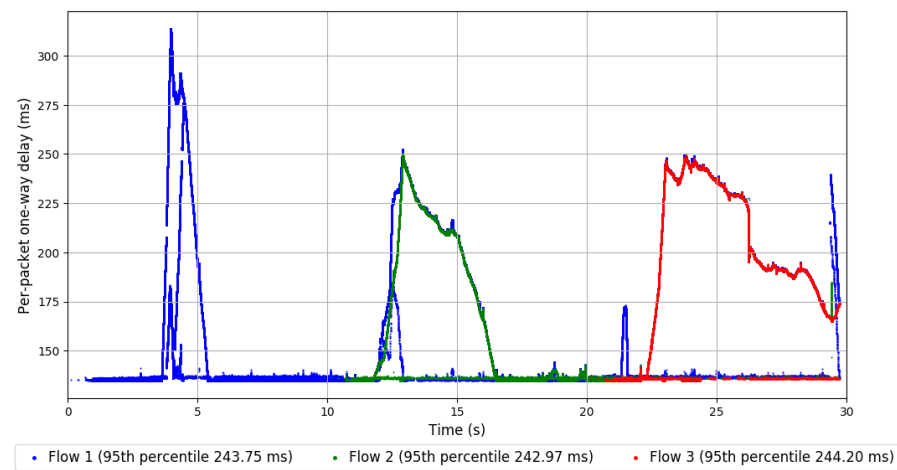
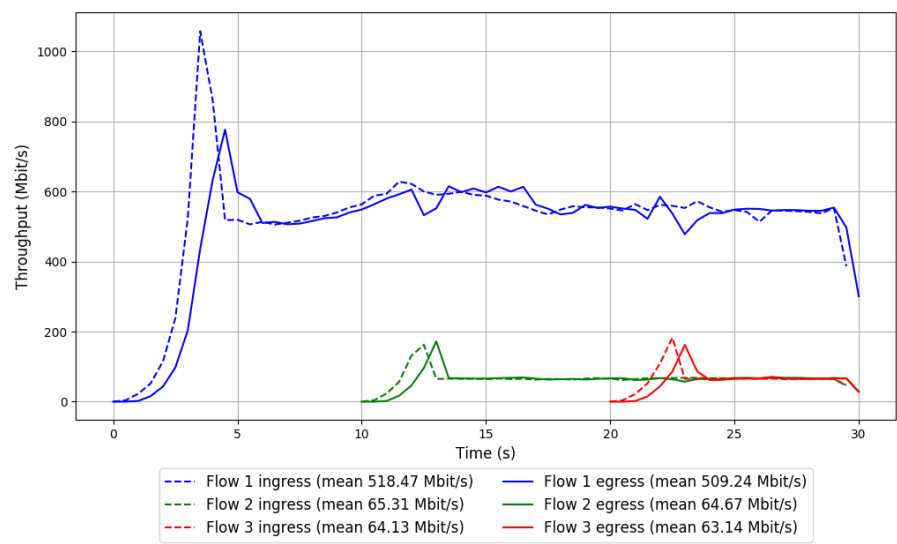


Run 5: Statistics of PCC-Allegro

Start at: 2018-06-01 00:18:24
End at: 2018-06-01 00:18:54
Local clock offset: -0.132 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2018-06-01 04:00:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 572.44 Mbit/s
95th percentile per-packet one-way delay: 243.749 ms
Loss rate: 2.70%
-- Flow 1:
Average throughput: 509.24 Mbit/s
95th percentile per-packet one-way delay: 243.745 ms
Loss rate: 2.67%
-- Flow 2:
Average throughput: 64.67 Mbit/s
95th percentile per-packet one-way delay: 242.968 ms
Loss rate: 2.33%
-- Flow 3:
Average throughput: 63.14 Mbit/s
95th percentile per-packet one-way delay: 244.202 ms
Loss rate: 4.27%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-06-01 00:43:59

End at: 2018-06-01 00:44:29

Local clock offset: 0.271 ms

Remote clock offset: -0.0 ms

Below is generated by plot.py at 2018-06-01 04:00:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 553.31 Mbit/s

95th percentile per-packet one-way delay: 251.650 ms

Loss rate: 3.88%

-- Flow 1:

Average throughput: 491.10 Mbit/s

95th percentile per-packet one-way delay: 252.299 ms

Loss rate: 3.73%

-- Flow 2:

Average throughput: 63.90 Mbit/s

95th percentile per-packet one-way delay: 249.345 ms

Loss rate: 3.72%

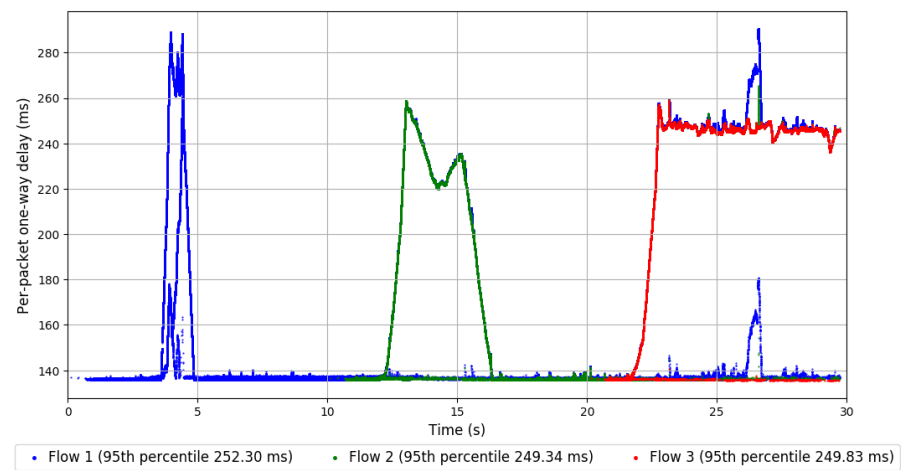
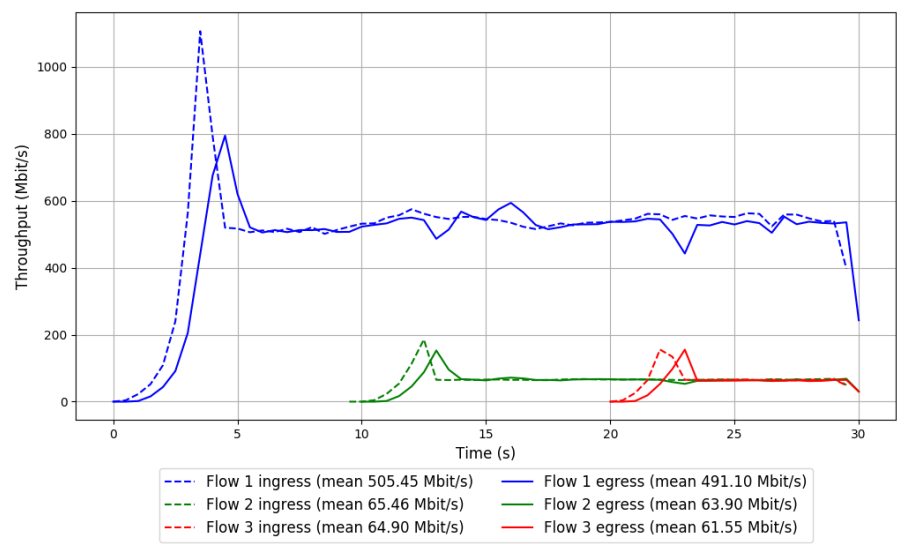
-- Flow 3:

Average throughput: 61.55 Mbit/s

95th percentile per-packet one-way delay: 249.834 ms

Loss rate: 7.80%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-06-01 01:09:14

End at: 2018-06-01 01:09:44

Local clock offset: -0.081 ms

Remote clock offset: 0.389 ms

Below is generated by plot.py at 2018-06-01 04:00:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 539.39 Mbit/s

95th percentile per-packet one-way delay: 252.798 ms

Loss rate: 4.16%

-- Flow 1:

Average throughput: 419.72 Mbit/s

95th percentile per-packet one-way delay: 252.675 ms

Loss rate: 3.75%

-- Flow 2:

Average throughput: 122.86 Mbit/s

95th percentile per-packet one-way delay: 252.636 ms

Loss rate: 4.69%

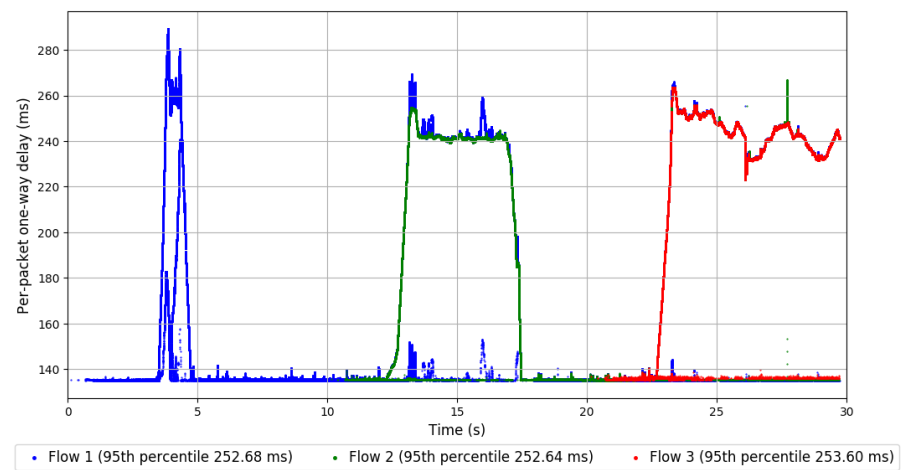
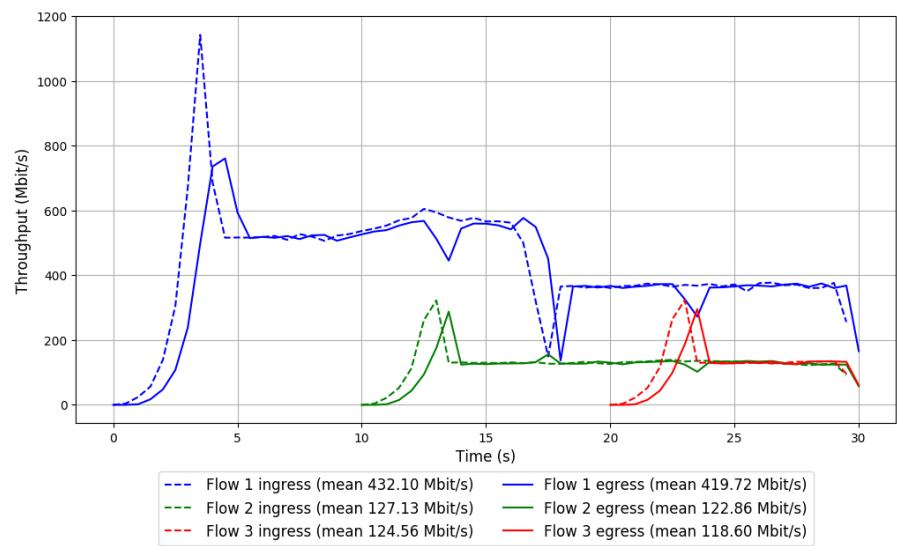
-- Flow 3:

Average throughput: 118.60 Mbit/s

95th percentile per-packet one-way delay: 253.605 ms

Loss rate: 7.43%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-06-01 01:34:32

End at: 2018-06-01 01:35:02

Local clock offset: 0.117 ms

Remote clock offset: 0.037 ms

Below is generated by plot.py at 2018-06-01 04:00:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 551.76 Mbit/s

95th percentile per-packet one-way delay: 257.810 ms

Loss rate: 3.87%

-- Flow 1:

Average throughput: 489.15 Mbit/s

95th percentile per-packet one-way delay: 257.867 ms

Loss rate: 3.73%

-- Flow 2:

Average throughput: 64.84 Mbit/s

95th percentile per-packet one-way delay: 257.596 ms

Loss rate: 3.76%

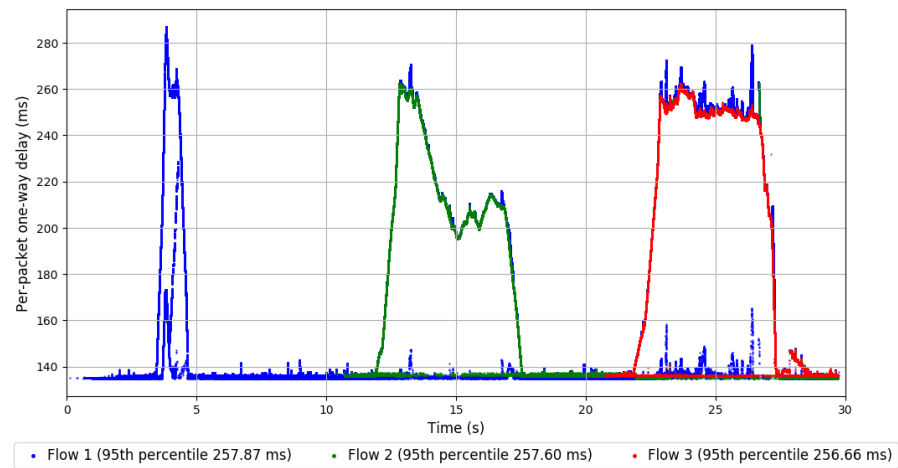
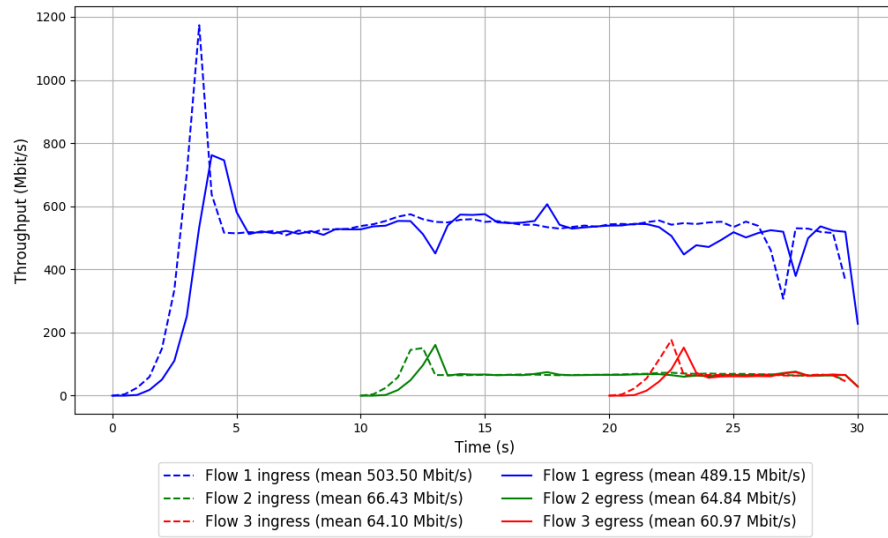
-- Flow 3:

Average throughput: 60.97 Mbit/s

95th percentile per-packet one-way delay: 256.664 ms

Loss rate: 7.52%

Run 8: Report of PCC-Allegro — Data Link

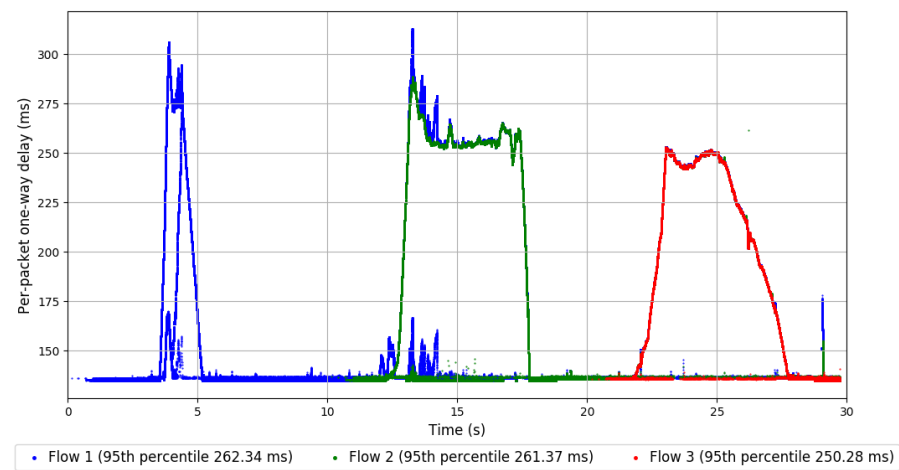
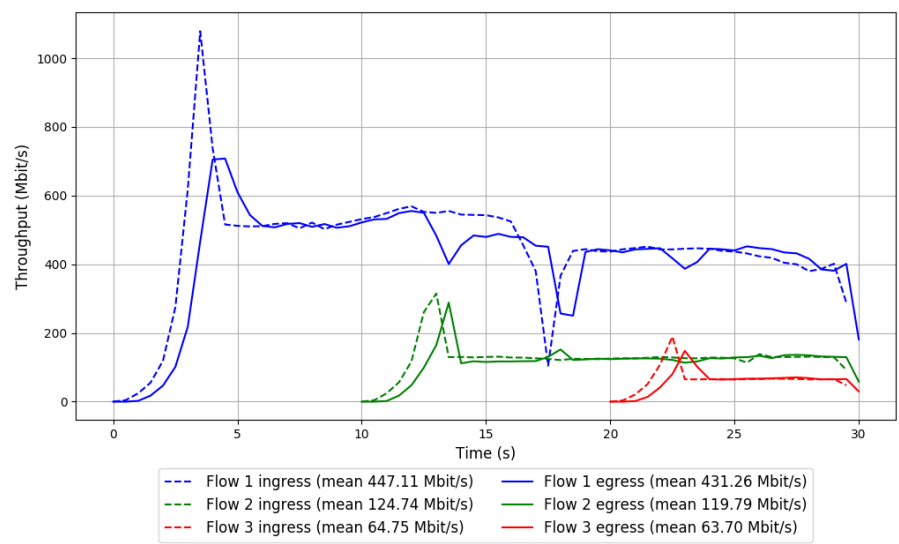


Run 9: Statistics of PCC-Allegro

Start at: 2018-06-01 01:59:35
End at: 2018-06-01 02:00:05
Local clock offset: -0.155 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-06-01 04:01:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 531.02 Mbit/s
95th percentile per-packet one-way delay: 261.657 ms
Loss rate: 4.55%
-- Flow 1:
Average throughput: 431.26 Mbit/s
95th percentile per-packet one-way delay: 262.337 ms
Loss rate: 4.42%
-- Flow 2:
Average throughput: 119.79 Mbit/s
95th percentile per-packet one-way delay: 261.373 ms
Loss rate: 5.29%
-- Flow 3:
Average throughput: 63.70 Mbit/s
95th percentile per-packet one-way delay: 250.279 ms
Loss rate: 4.30%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-06-01 02:24:52

End at: 2018-06-01 02:25:22

Local clock offset: -0.114 ms

Remote clock offset: 0.376 ms

Below is generated by plot.py at 2018-06-01 04:02:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 540.61 Mbit/s

95th percentile per-packet one-way delay: 254.301 ms

Loss rate: 2.25%

-- Flow 1:

Average throughput: 496.17 Mbit/s

95th percentile per-packet one-way delay: 254.337 ms

Loss rate: 2.31%

-- Flow 2:

Average throughput: 65.10 Mbit/s

95th percentile per-packet one-way delay: 253.637 ms

Loss rate: 1.48%

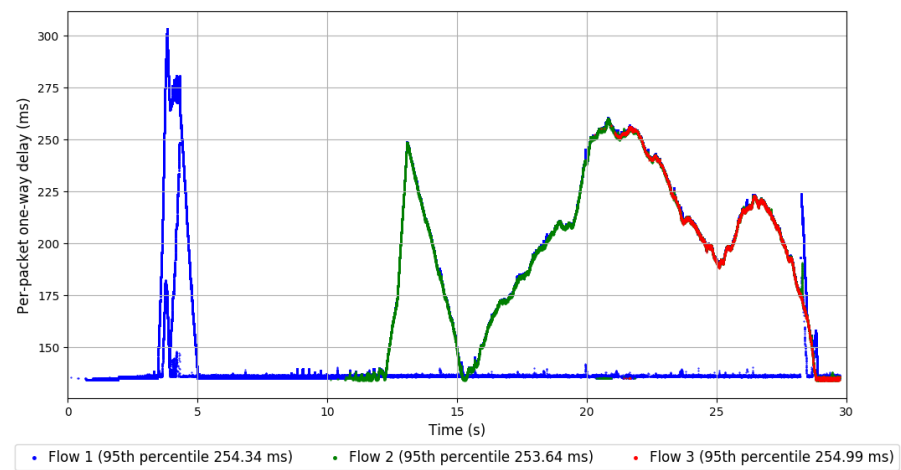
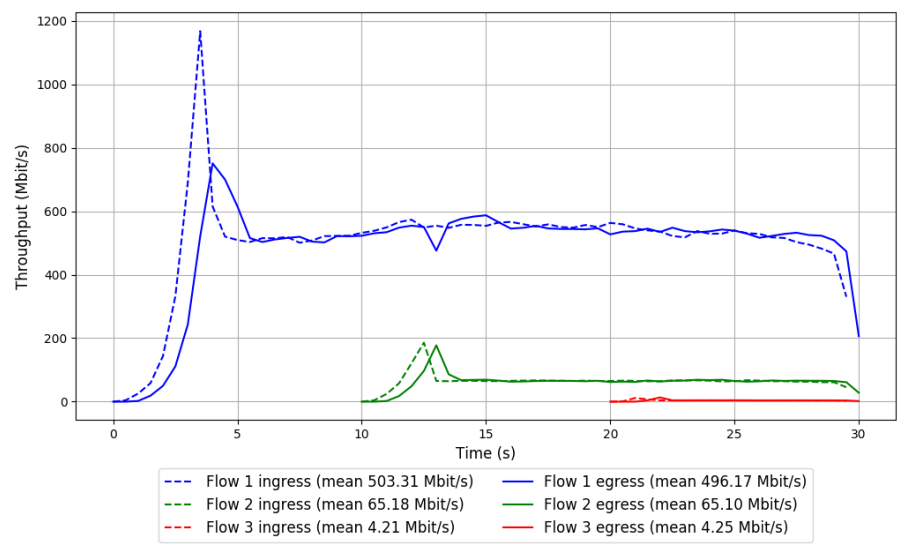
-- Flow 3:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 254.989 ms

Loss rate: 3.01%

Run 10: Report of PCC-Allegro — Data Link

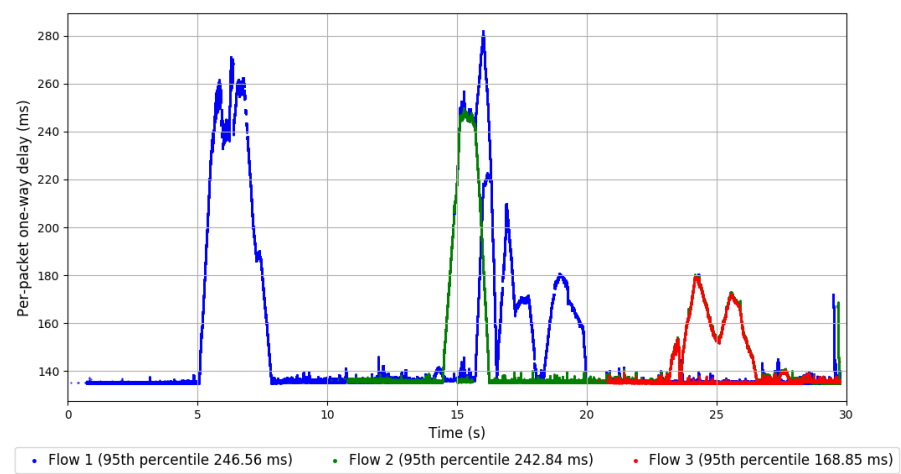
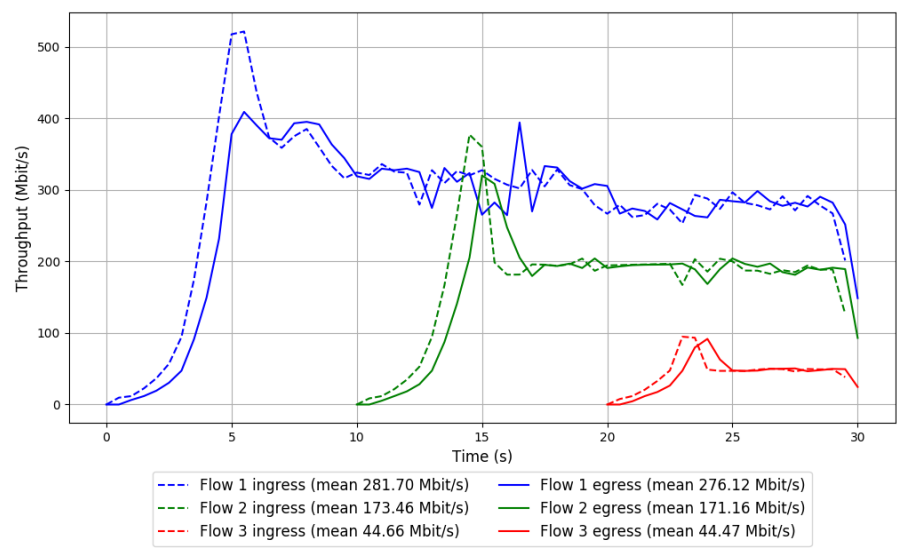


```
Run 1: Statistics of PCC-Expr

Start at: 2018-05-31 22:23:16
End at: 2018-05-31 22:23:46
Local clock offset: -0.343 ms
Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2018-06-01 04:06:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 403.70 Mbit/s
95th percentile per-packet one-way delay: 244.740 ms
Loss rate: 2.82%
-- Flow 1:
Average throughput: 276.12 Mbit/s
95th percentile per-packet one-way delay: 246.562 ms
Loss rate: 2.87%
-- Flow 2:
Average throughput: 171.16 Mbit/s
95th percentile per-packet one-way delay: 242.835 ms
Loss rate: 2.67%
-- Flow 3:
Average throughput: 44.47 Mbit/s
95th percentile per-packet one-way delay: 168.851 ms
Loss rate: 3.08%
```

Run 1: Report of PCC-Expr — Data Link

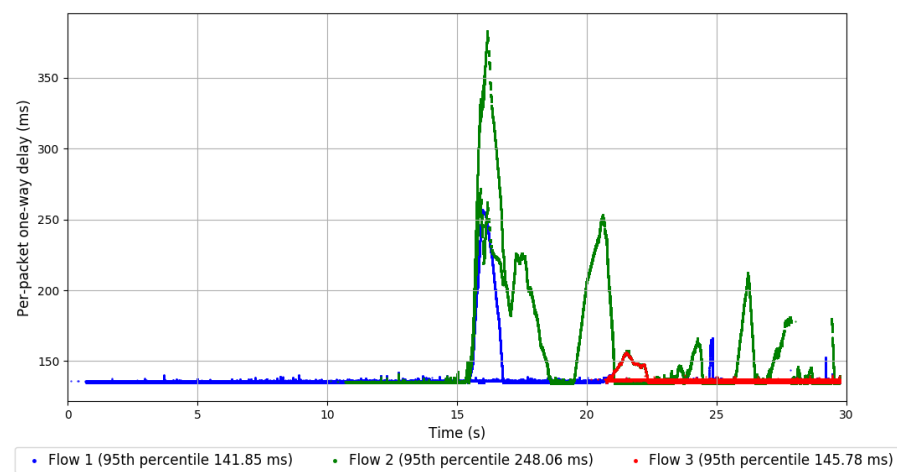
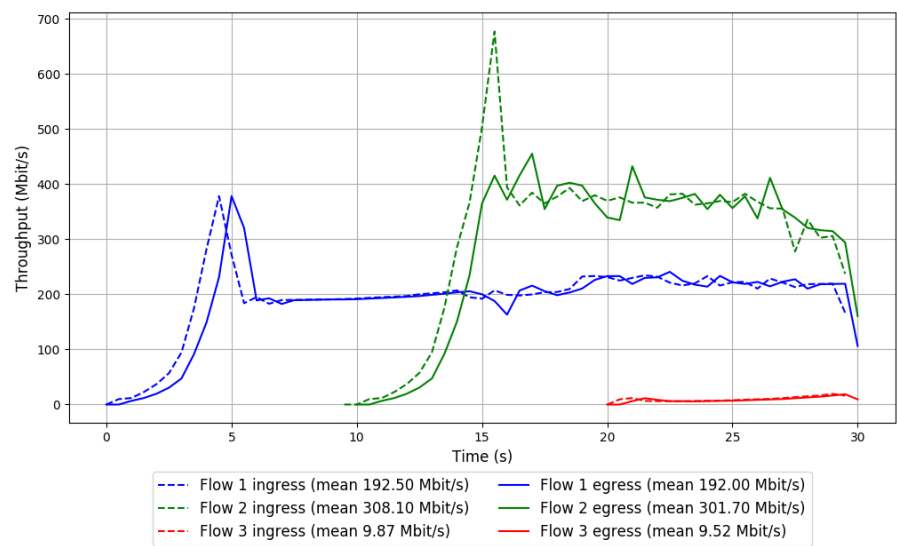


```
Run 2: Statistics of PCC-Expr

Start at: 2018-05-31 22:48:37
End at: 2018-05-31 22:49:07
Local clock offset: -0.605 ms
Remote clock offset: 0.121 ms

# Below is generated by plot.py at 2018-06-01 04:06:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 394.82 Mbit/s
95th percentile per-packet one-way delay: 226.040 ms
Loss rate: 2.37%
-- Flow 1:
Average throughput: 192.00 Mbit/s
95th percentile per-packet one-way delay: 141.851 ms
Loss rate: 1.18%
-- Flow 2:
Average throughput: 301.70 Mbit/s
95th percentile per-packet one-way delay: 248.061 ms
Loss rate: 3.42%
-- Flow 3:
Average throughput: 9.52 Mbit/s
95th percentile per-packet one-way delay: 145.779 ms
Loss rate: 6.18%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-05-31 23:14:05

End at: 2018-05-31 23:14:35

Local clock offset: -0.165 ms

Remote clock offset: 0.528 ms

Below is generated by plot.py at 2018-06-01 04:14:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 462.33 Mbit/s

95th percentile per-packet one-way delay: 261.596 ms

Loss rate: 4.51%

-- Flow 1:

Average throughput: 325.63 Mbit/s

95th percentile per-packet one-way delay: 263.655 ms

Loss rate: 5.34%

-- Flow 2:

Average throughput: 184.77 Mbit/s

95th percentile per-packet one-way delay: 200.995 ms

Loss rate: 2.35%

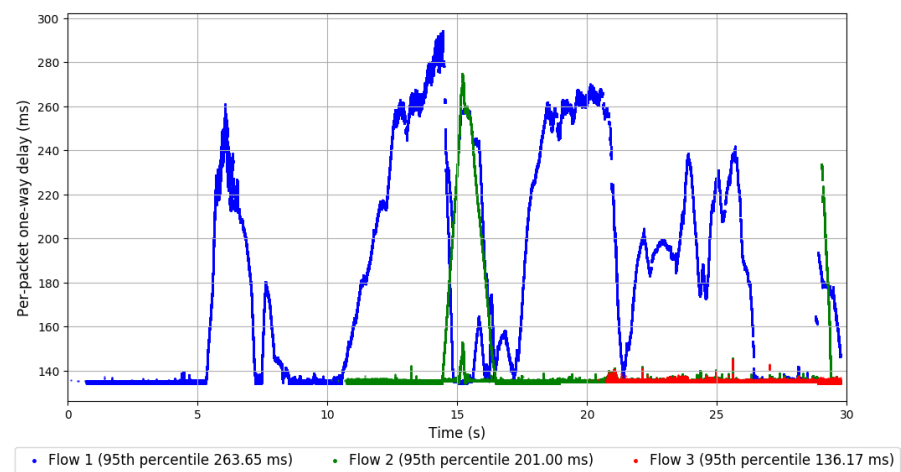
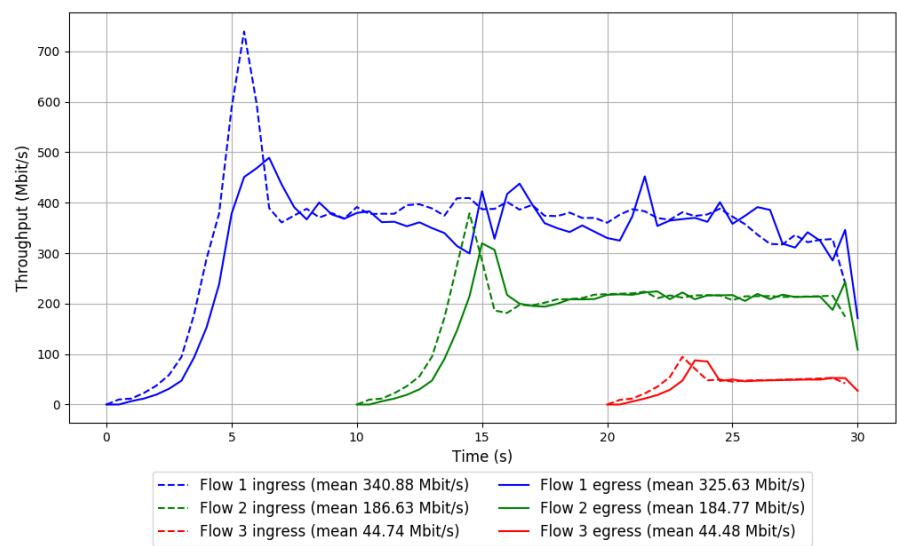
-- Flow 3:

Average throughput: 44.48 Mbit/s

95th percentile per-packet one-way delay: 136.173 ms

Loss rate: 3.33%

Run 3: Report of PCC-Expr — Data Link

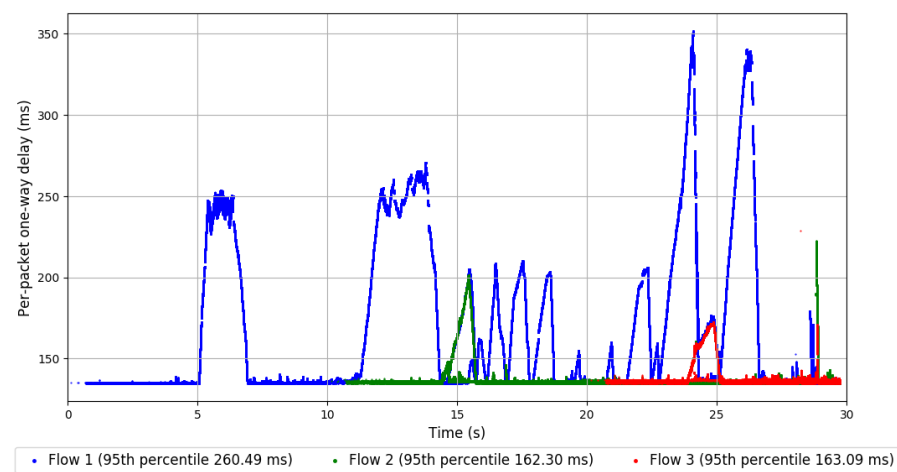
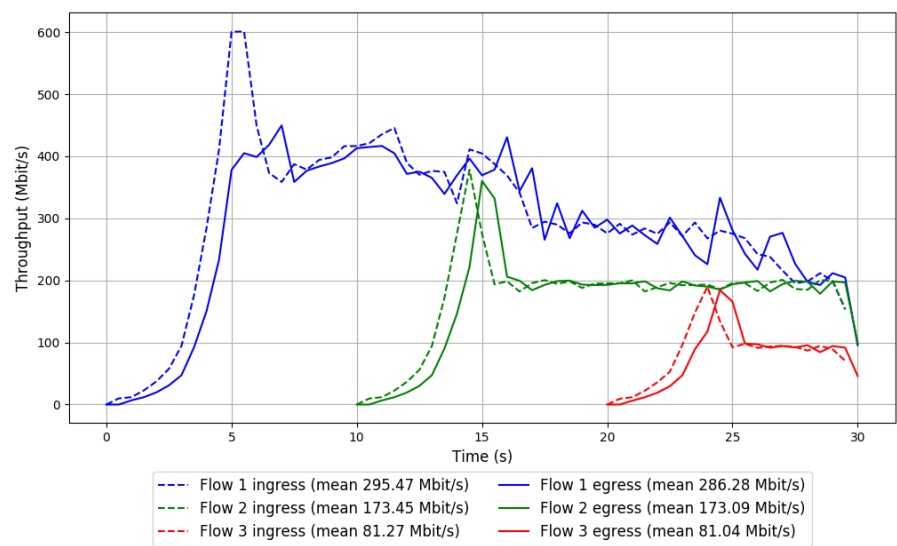


Run 4: Statistics of PCC-Expr

Start at: 2018-05-31 23:39:31
End at: 2018-05-31 23:40:01
Local clock offset: -0.058 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2018-06-01 04:15:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 427.14 Mbit/s
95th percentile per-packet one-way delay: 252.960 ms
Loss rate: 3.30%
-- Flow 1:
Average throughput: 286.28 Mbit/s
95th percentile per-packet one-way delay: 260.491 ms
Loss rate: 3.99%
-- Flow 2:
Average throughput: 173.09 Mbit/s
95th percentile per-packet one-way delay: 162.296 ms
Loss rate: 1.58%
-- Flow 3:
Average throughput: 81.04 Mbit/s
95th percentile per-packet one-way delay: 163.087 ms
Loss rate: 3.05%

Run 4: Report of PCC-Expr — Data Link

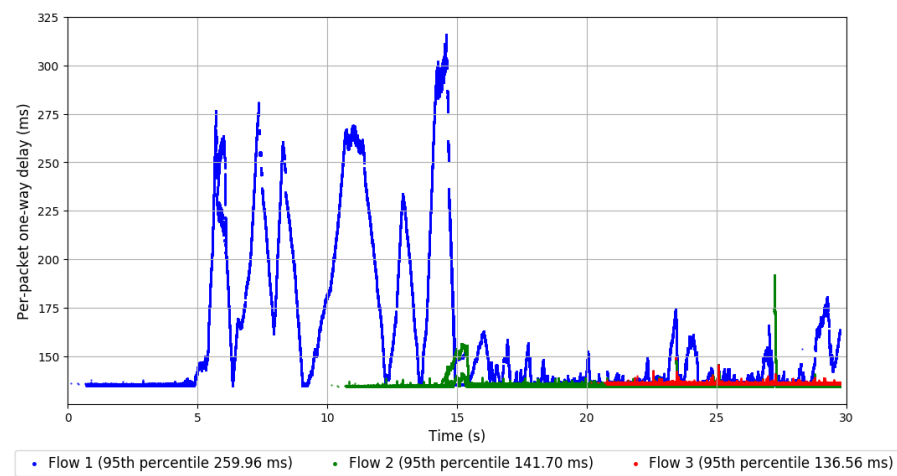
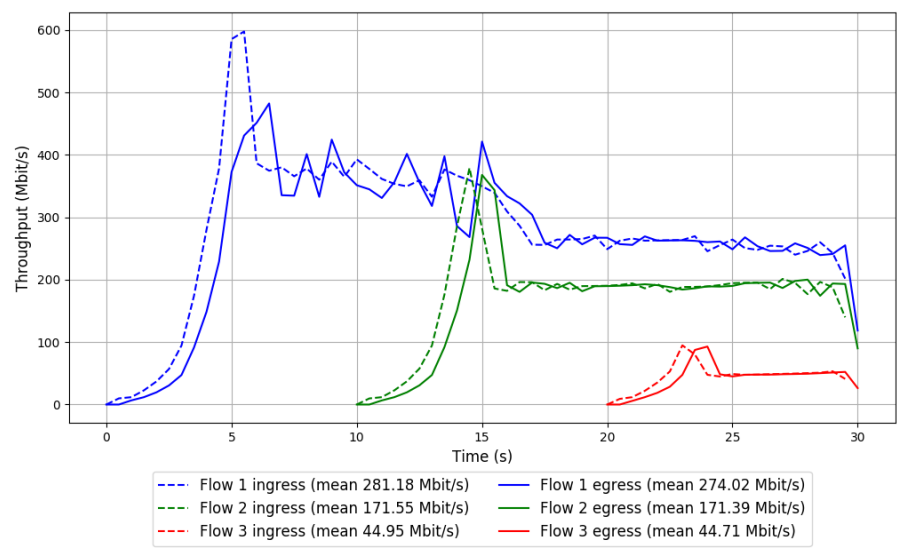


Run 5: Statistics of PCC-Expr

Start at: 2018-06-01 00:05:00
End at: 2018-06-01 00:05:30
Local clock offset: -0.172 ms
Remote clock offset: -0.058 ms

Below is generated by plot.py at 2018-06-01 04:15:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 401.96 Mbit/s
95th percentile per-packet one-way delay: 254.556 ms
Loss rate: 2.88%
-- Flow 1:
Average throughput: 274.02 Mbit/s
95th percentile per-packet one-way delay: 259.961 ms
Loss rate: 3.44%
-- Flow 2:
Average throughput: 171.39 Mbit/s
95th percentile per-packet one-way delay: 141.700 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 44.71 Mbit/s
95th percentile per-packet one-way delay: 136.560 ms
Loss rate: 3.29%

Run 5: Report of PCC-Expr — Data Link

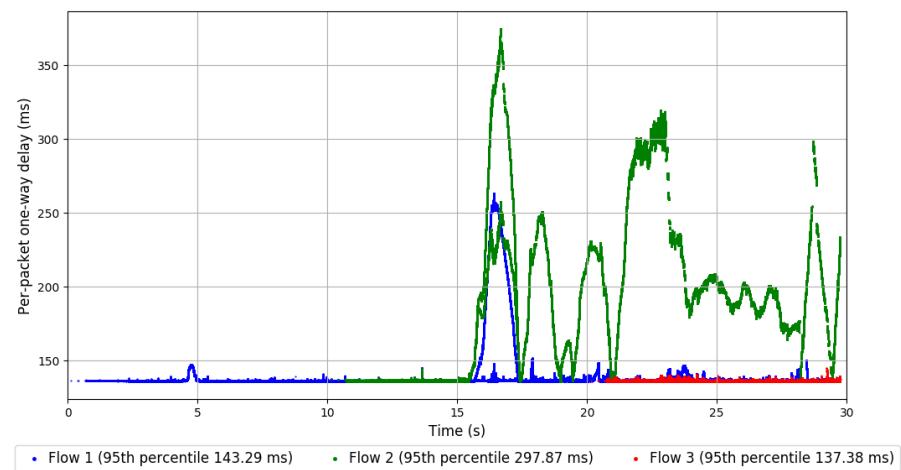
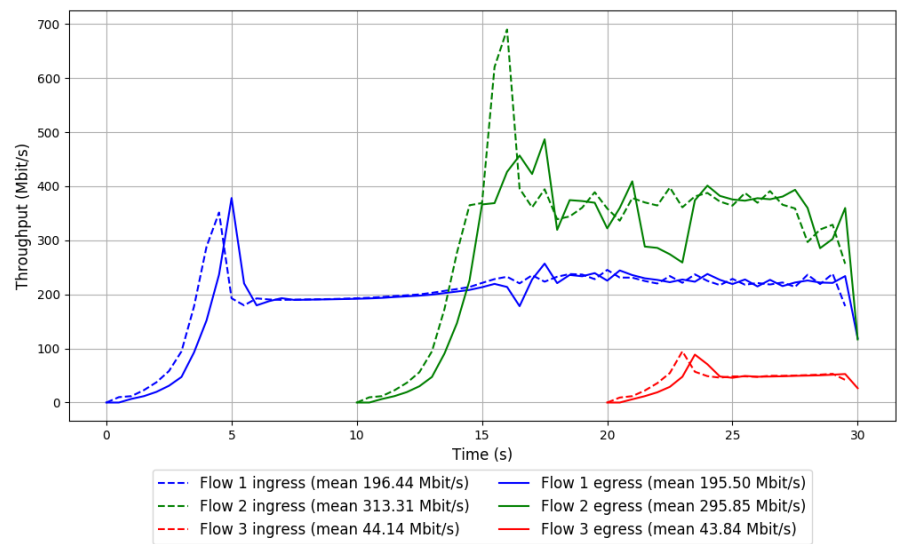


Run 6: Statistics of PCC-Expr

Start at: 2018-06-01 00:30:09
End at: 2018-06-01 00:30:39
Local clock offset: -0.213 ms
Remote clock offset: -0.424 ms

Below is generated by plot.py at 2018-06-01 04:15:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 405.55 Mbit/s
95th percentile per-packet one-way delay: 276.131 ms
Loss rate: 4.18%
-- Flow 1:
Average throughput: 195.50 Mbit/s
95th percentile per-packet one-way delay: 143.293 ms
Loss rate: 1.38%
-- Flow 2:
Average throughput: 295.85 Mbit/s
95th percentile per-packet one-way delay: 297.871 ms
Loss rate: 6.87%
-- Flow 3:
Average throughput: 43.84 Mbit/s
95th percentile per-packet one-way delay: 137.382 ms
Loss rate: 3.44%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-06-01 00:55:44

End at: 2018-06-01 00:56:14

Local clock offset: 0.556 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-06-01 04:15:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 417.21 Mbit/s

95th percentile per-packet one-way delay: 238.833 ms

Loss rate: 3.05%

-- Flow 1:

Average throughput: 277.71 Mbit/s

95th percentile per-packet one-way delay: 248.268 ms

Loss rate: 3.65%

-- Flow 2:

Average throughput: 169.81 Mbit/s

95th percentile per-packet one-way delay: 161.316 ms

Loss rate: 1.51%

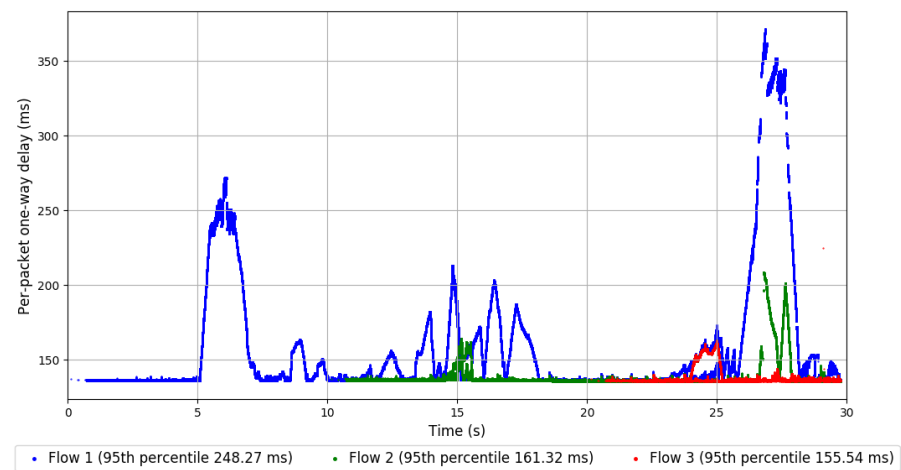
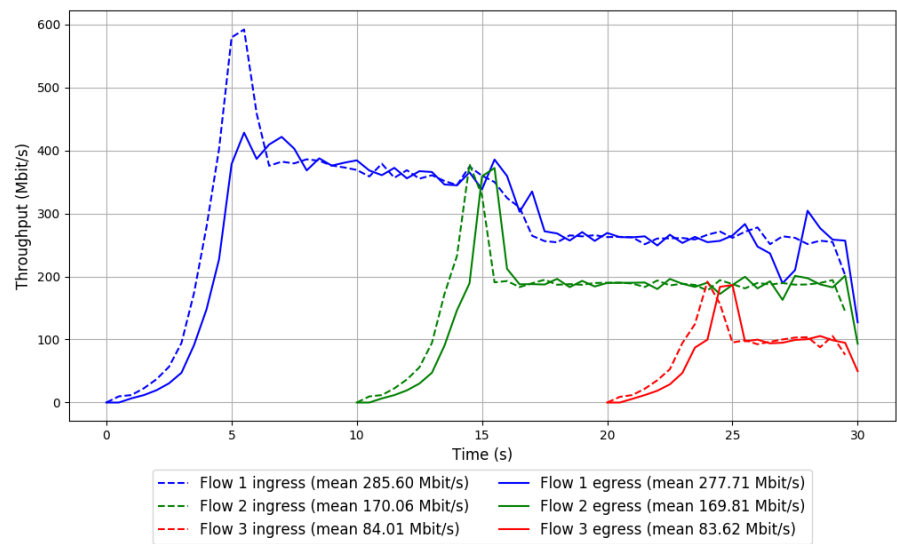
-- Flow 3:

Average throughput: 83.62 Mbit/s

95th percentile per-packet one-way delay: 155.538 ms

Loss rate: 3.22%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-06-01 01:20:51

End at: 2018-06-01 01:21:21

Local clock offset: -0.054 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2018-06-01 04:17:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 425.33 Mbit/s

95th percentile per-packet one-way delay: 365.857 ms

Loss rate: 6.95%

-- Flow 1:

Average throughput: 294.05 Mbit/s

95th percentile per-packet one-way delay: 377.196 ms

Loss rate: 6.97%

-- Flow 2:

Average throughput: 178.34 Mbit/s

95th percentile per-packet one-way delay: 273.048 ms

Loss rate: 6.69%

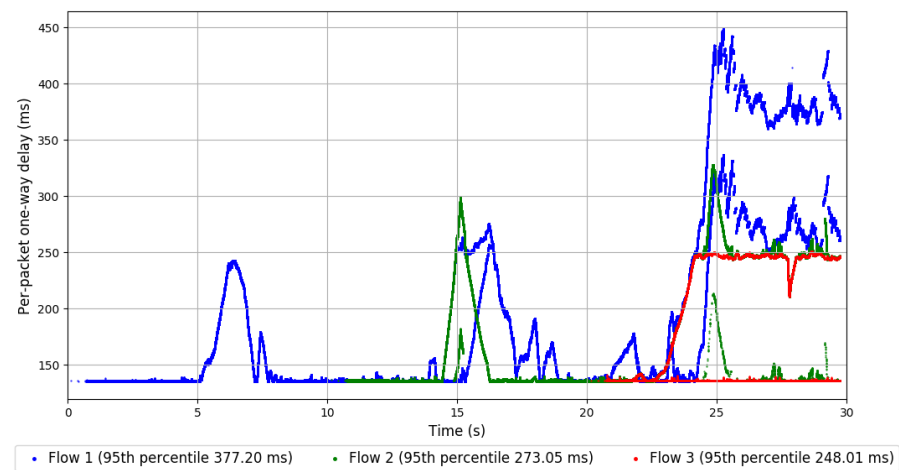
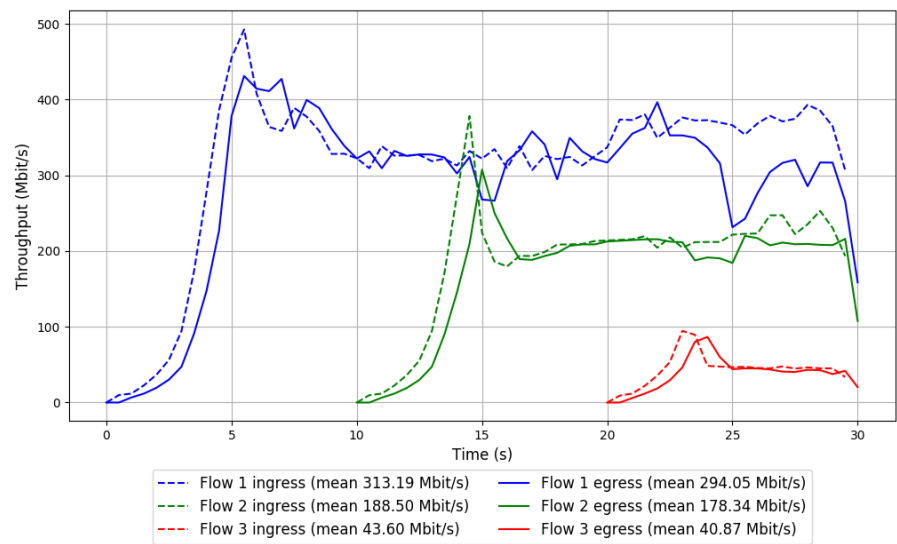
-- Flow 3:

Average throughput: 40.87 Mbit/s

95th percentile per-packet one-way delay: 248.015 ms

Loss rate: 8.85%

Run 8: Report of PCC-Expr — Data Link

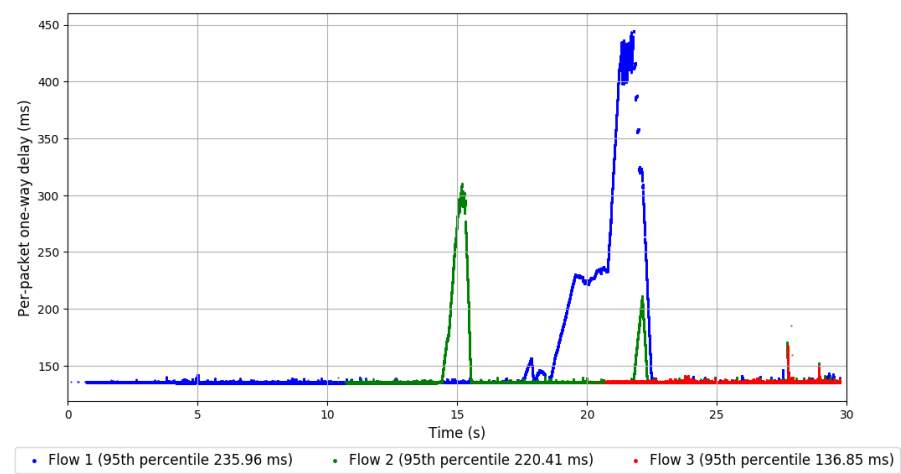
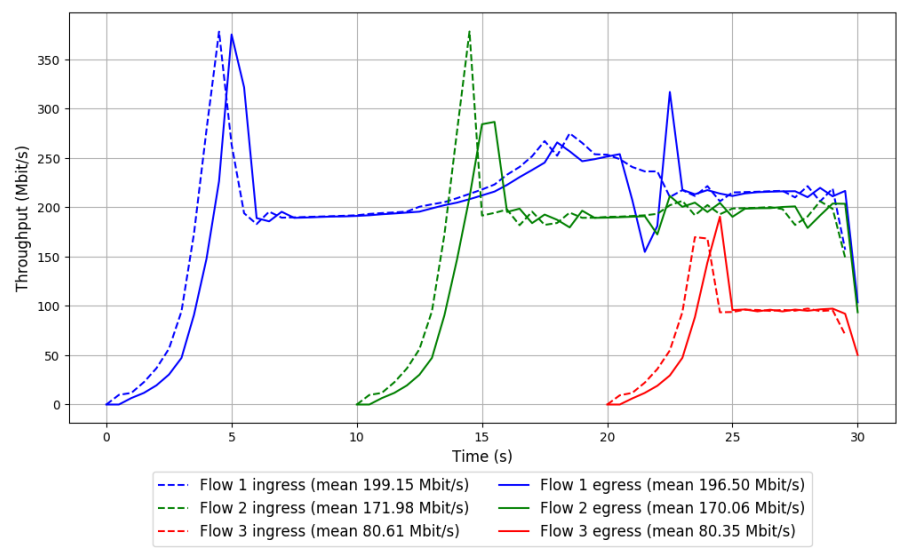


Run 9: Statistics of PCC-Expr

Start at: 2018-06-01 01:46:00
End at: 2018-06-01 01:46:30
Local clock offset: -0.322 ms
Remote clock offset: -0.014 ms

Below is generated by plot.py at 2018-06-01 04:20:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 335.12 Mbit/s
95th percentile per-packet one-way delay: 234.234 ms
Loss rate: 2.37%
-- Flow 1:
Average throughput: 196.50 Mbit/s
95th percentile per-packet one-way delay: 235.956 ms
Loss rate: 2.23%
-- Flow 2:
Average throughput: 170.06 Mbit/s
95th percentile per-packet one-way delay: 220.406 ms
Loss rate: 2.46%
-- Flow 3:
Average throughput: 80.35 Mbit/s
95th percentile per-packet one-way delay: 136.853 ms
Loss rate: 3.05%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-06-01 02:11:18

End at: 2018-06-01 02:11:48

Local clock offset: -0.182 ms

Remote clock offset: -0.36 ms

Below is generated by plot.py at 2018-06-01 04:20:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 325.73 Mbit/s

95th percentile per-packet one-way delay: 139.306 ms

Loss rate: 1.39%

-- Flow 1:

Average throughput: 187.46 Mbit/s

95th percentile per-packet one-way delay: 137.333 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 168.83 Mbit/s

95th percentile per-packet one-way delay: 186.051 ms

Loss rate: 1.50%

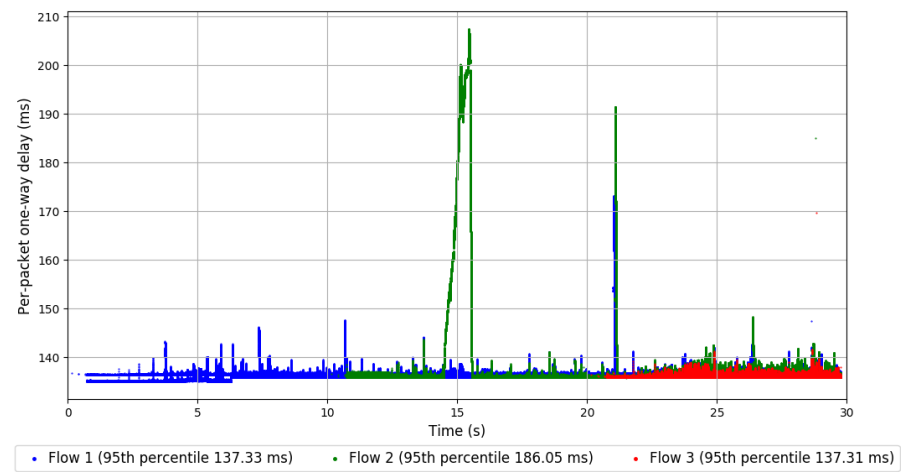
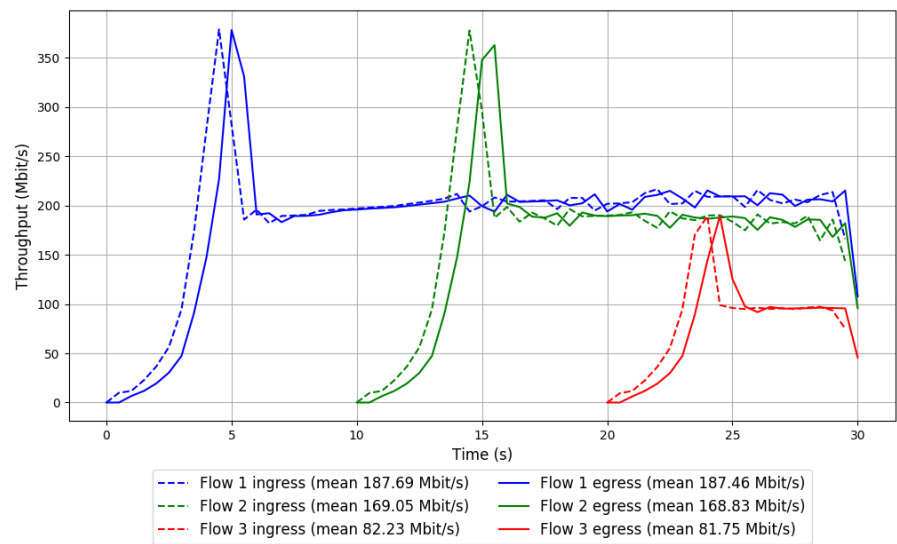
-- Flow 3:

Average throughput: 81.75 Mbit/s

95th percentile per-packet one-way delay: 137.308 ms

Loss rate: 3.32%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-05-31 22:46:00

End at: 2018-05-31 22:46:30

Local clock offset: -0.436 ms

Remote clock offset: 0.097 ms

Below is generated by plot.py at 2018-06-01 04:20:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 112.80 Mbit/s

95th percentile per-packet one-way delay: 136.374 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 59.40 Mbit/s

95th percentile per-packet one-way delay: 136.377 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 61.14 Mbit/s

95th percentile per-packet one-way delay: 136.337 ms

Loss rate: 0.52%

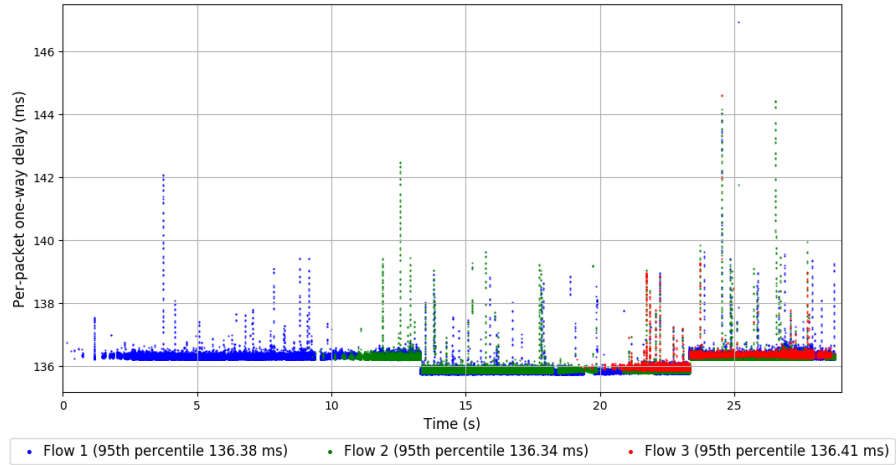
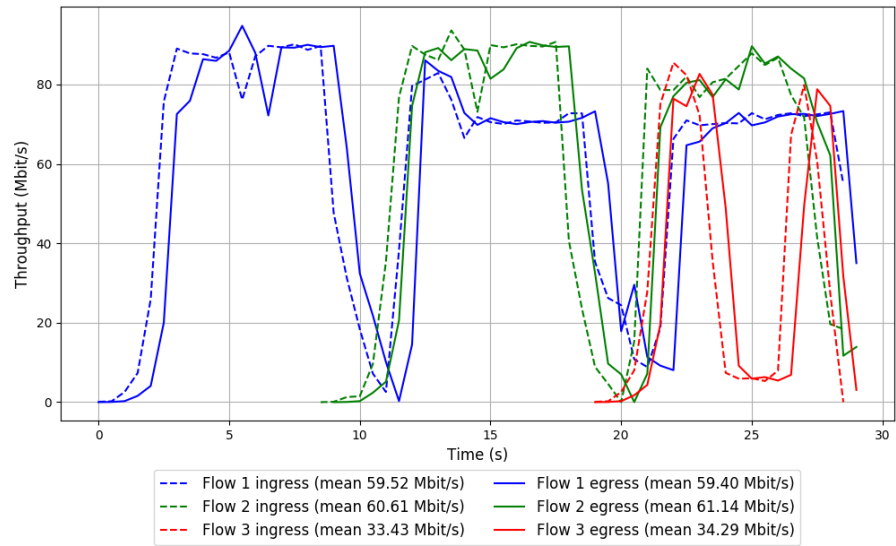
-- Flow 3:

Average throughput: 34.29 Mbit/s

95th percentile per-packet one-way delay: 136.411 ms

Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-05-31 23:11:28

End at: 2018-05-31 23:11:58

Local clock offset: -0.093 ms

Remote clock offset: 0.131 ms

Below is generated by plot.py at 2018-06-01 04:20:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.40 Mbit/s

95th percentile per-packet one-way delay: 135.844 ms

Loss rate: 2.06%

-- Flow 1:

Average throughput: 49.98 Mbit/s

95th percentile per-packet one-way delay: 135.830 ms

Loss rate: 1.18%

-- Flow 2:

Average throughput: 51.51 Mbit/s

95th percentile per-packet one-way delay: 135.867 ms

Loss rate: 2.01%

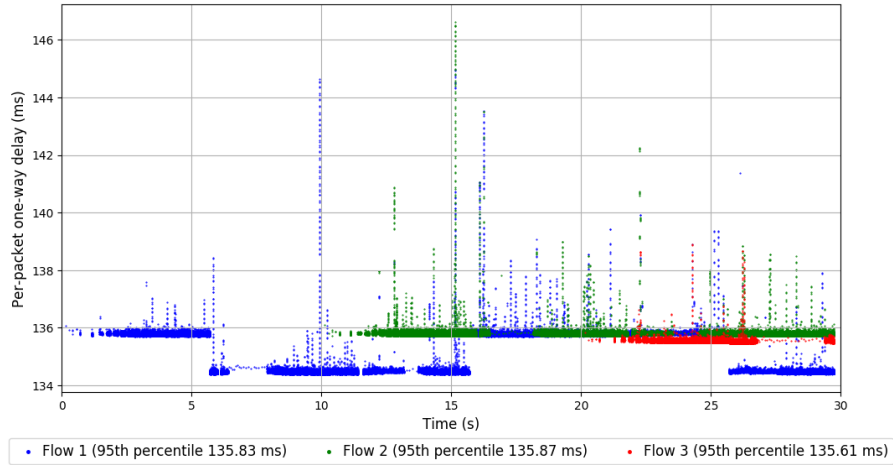
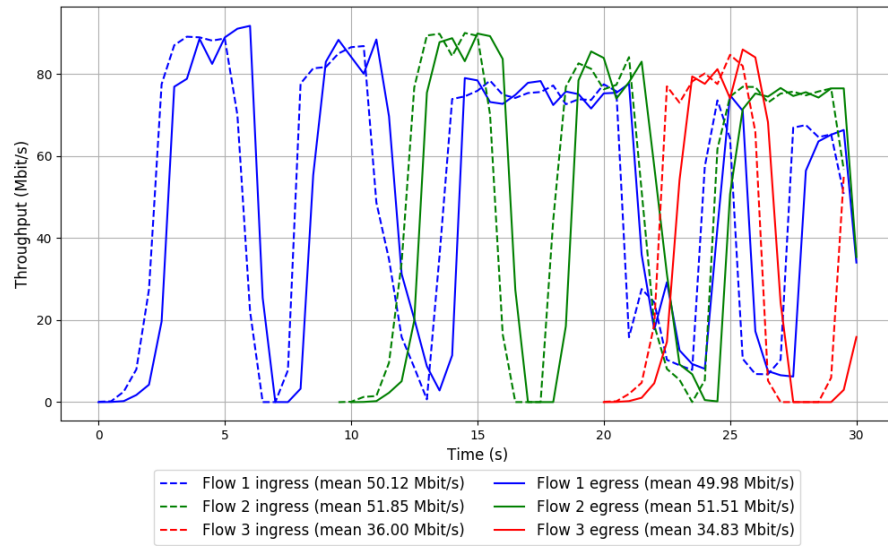
-- Flow 3:

Average throughput: 34.83 Mbit/s

95th percentile per-packet one-way delay: 135.614 ms

Loss rate: 5.92%

Run 2: Report of QUIC Cubic — Data Link

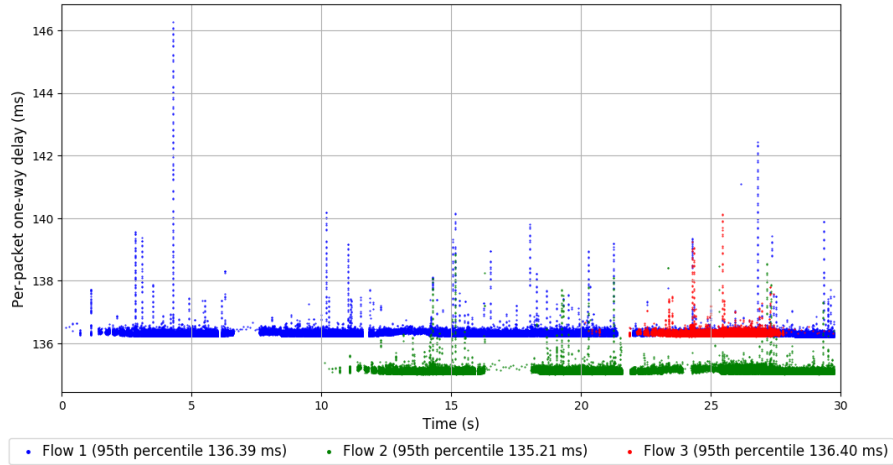
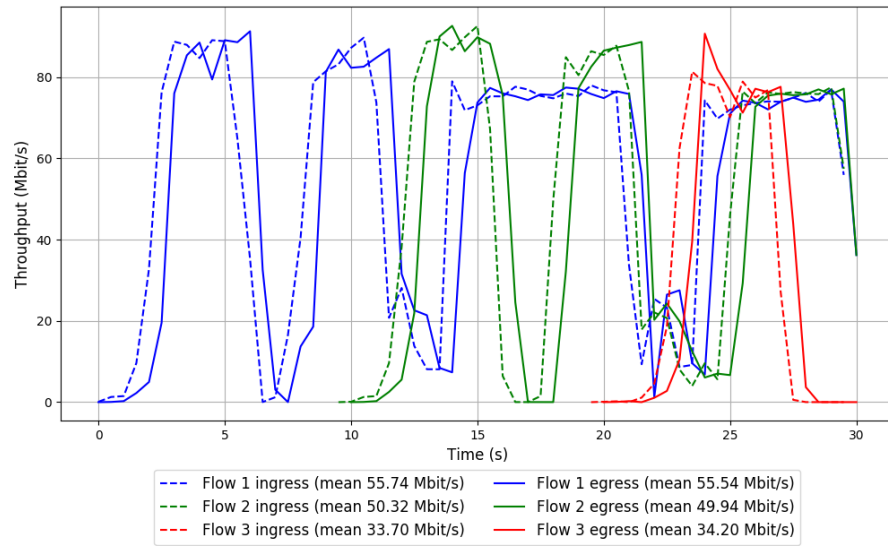


Run 3: Statistics of QUIC Cubic

Start at: 2018-05-31 23:36:54
End at: 2018-05-31 23:37:24
Local clock offset: 0.023 ms
Remote clock offset: -0.398 ms

Below is generated by plot.py at 2018-06-01 04:20:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 99.67 Mbit/s
95th percentile per-packet one-way delay: 136.374 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 55.54 Mbit/s
95th percentile per-packet one-way delay: 136.389 ms
Loss rate: 1.25%
-- Flow 2:
Average throughput: 49.94 Mbit/s
95th percentile per-packet one-way delay: 135.207 ms
Loss rate: 2.10%
-- Flow 3:
Average throughput: 34.20 Mbit/s
95th percentile per-packet one-way delay: 136.400 ms
Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link

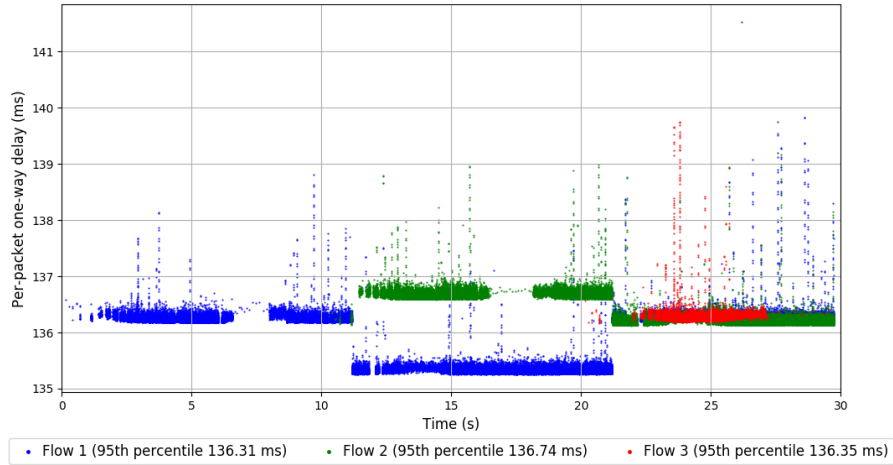
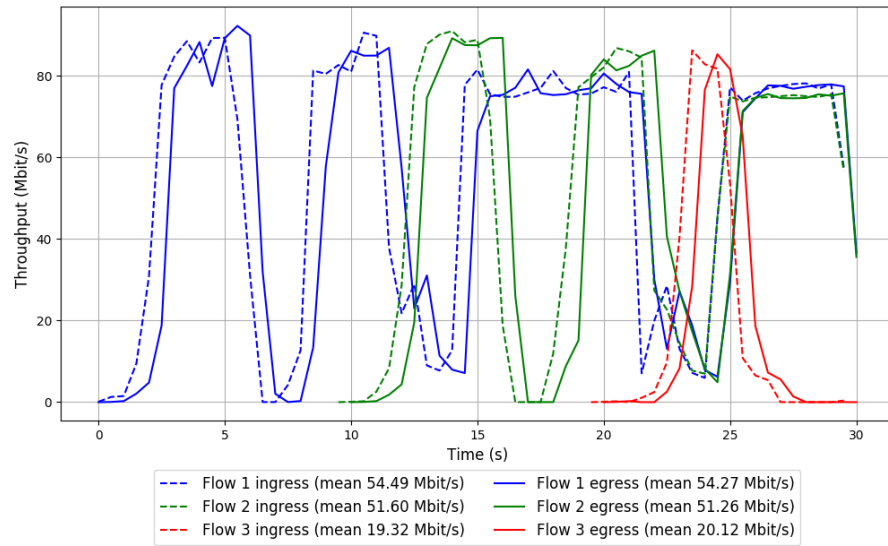


Run 4: Statistics of QUIC Cubic

Start at: 2018-06-01 00:02:23
End at: 2018-06-01 00:02:53
Local clock offset: -0.067 ms
Remote clock offset: -0.431 ms

Below is generated by plot.py at 2018-06-01 04:20:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.68 Mbit/s
95th percentile per-packet one-way delay: 136.695 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 54.27 Mbit/s
95th percentile per-packet one-way delay: 136.315 ms
Loss rate: 1.30%
-- Flow 2:
Average throughput: 51.26 Mbit/s
95th percentile per-packet one-way delay: 136.740 ms
Loss rate: 2.01%
-- Flow 3:
Average throughput: 20.12 Mbit/s
95th percentile per-packet one-way delay: 136.353 ms
Loss rate: 0.10%

Run 4: Report of QUIC Cubic — Data Link

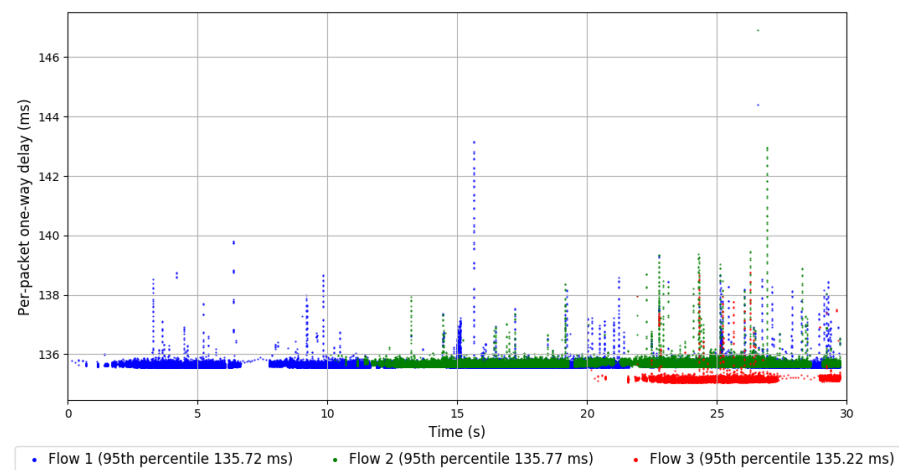
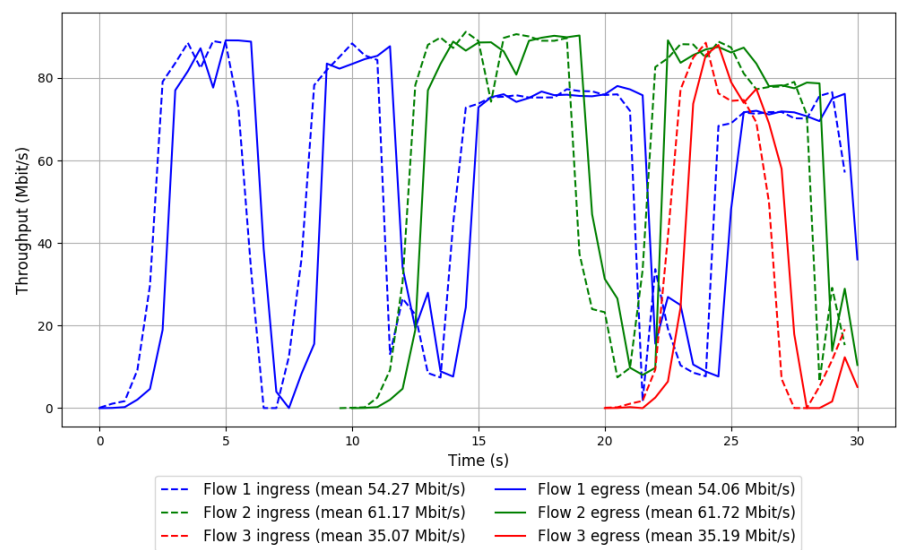


Run 5: Statistics of QUIC Cubic

Start at: 2018-06-01 00:27:31
End at: 2018-06-01 00:28:01
Local clock offset: -0.245 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2018-06-01 04:20:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 106.37 Mbit/s
95th percentile per-packet one-way delay: 135.744 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 54.06 Mbit/s
95th percentile per-packet one-way delay: 135.720 ms
Loss rate: 1.29%
-- Flow 2:
Average throughput: 61.72 Mbit/s
95th percentile per-packet one-way delay: 135.773 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 35.19 Mbit/s
95th percentile per-packet one-way delay: 135.220 ms
Loss rate: 2.45%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-06-01 00:53:06

End at: 2018-06-01 00:53:36

Local clock offset: 0.318 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2018-06-01 04:20:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 102.86 Mbit/s

95th percentile per-packet one-way delay: 136.198 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 63.86 Mbit/s

95th percentile per-packet one-way delay: 136.147 ms

Loss rate: 1.20%

-- Flow 2:

Average throughput: 42.13 Mbit/s

95th percentile per-packet one-way delay: 135.908 ms

Loss rate: 2.40%

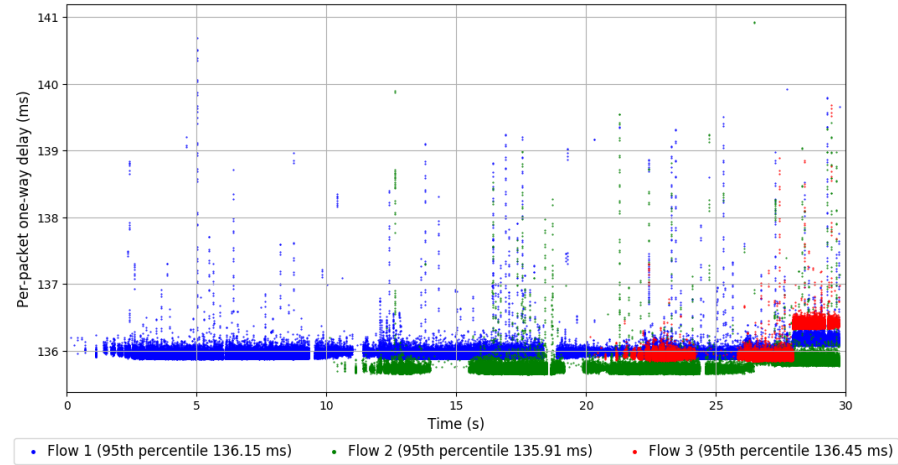
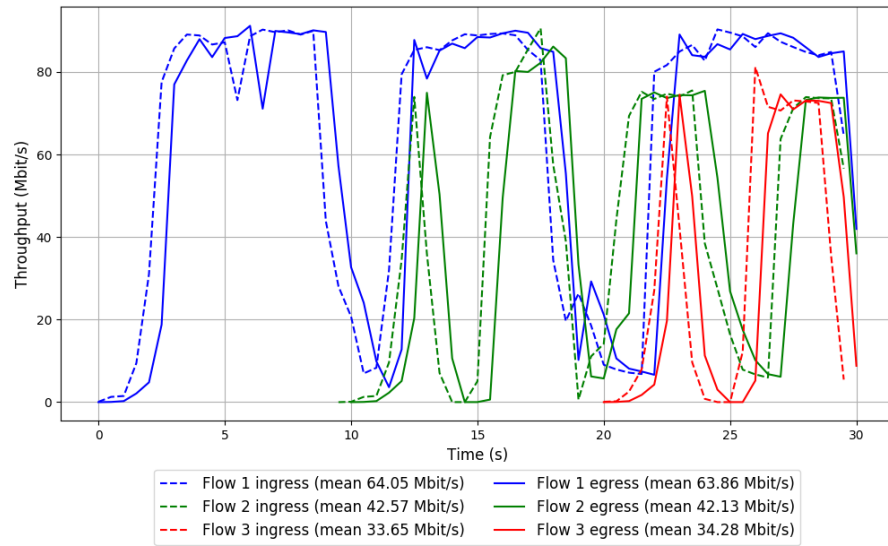
-- Flow 3:

Average throughput: 34.28 Mbit/s

95th percentile per-packet one-way delay: 136.450 ms

Loss rate: 0.31%

Run 6: Report of QUIC Cubic — Data Link

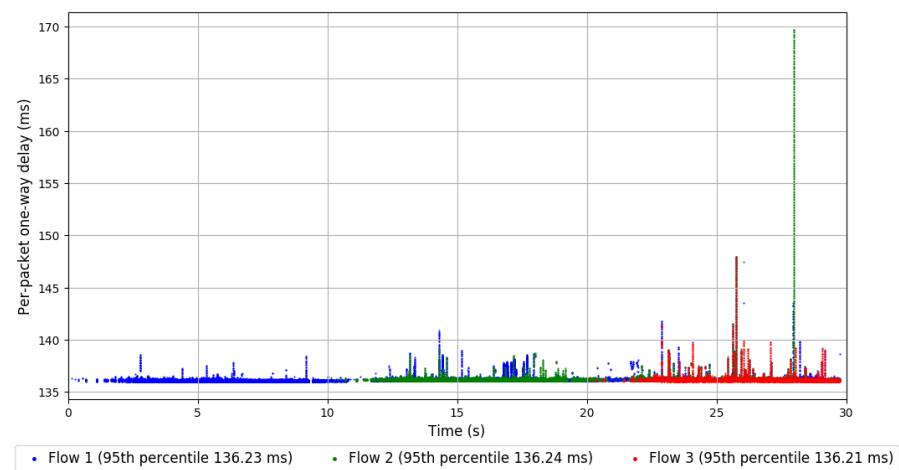
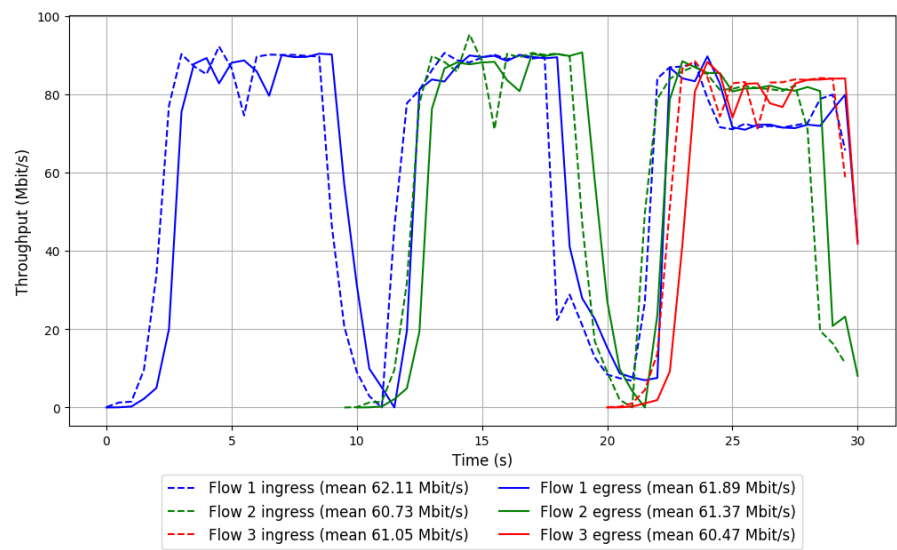


Run 7: Statistics of QUIC Cubic

Start at: 2018-06-01 01:18:14
End at: 2018-06-01 01:18:44
Local clock offset: -0.218 ms
Remote clock offset: -0.376 ms

Below is generated by plot.py at 2018-06-01 04:20:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 122.16 Mbit/s
95th percentile per-packet one-way delay: 136.236 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 61.89 Mbit/s
95th percentile per-packet one-way delay: 136.233 ms
Loss rate: 1.25%
-- Flow 2:
Average throughput: 61.37 Mbit/s
95th percentile per-packet one-way delay: 136.244 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 60.47 Mbit/s
95th percentile per-packet one-way delay: 136.214 ms
Loss rate: 3.32%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-06-01 01:43:22

End at: 2018-06-01 01:43:52

Local clock offset: -0.395 ms

Remote clock offset: 0.363 ms

Below is generated by plot.py at 2018-06-01 04:20:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 111.64 Mbit/s

95th percentile per-packet one-way delay: 135.312 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 66.54 Mbit/s

95th percentile per-packet one-way delay: 135.151 ms

Loss rate: 1.23%

-- Flow 2:

Average throughput: 50.94 Mbit/s

95th percentile per-packet one-way delay: 135.331 ms

Loss rate: 2.05%

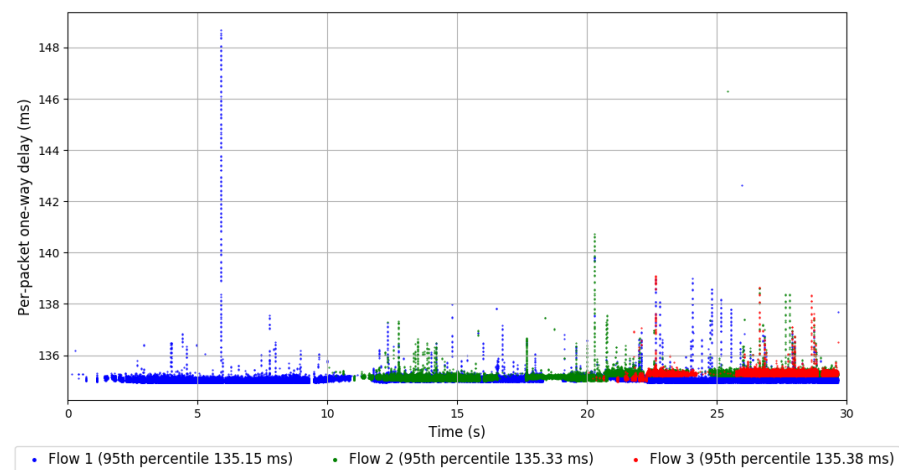
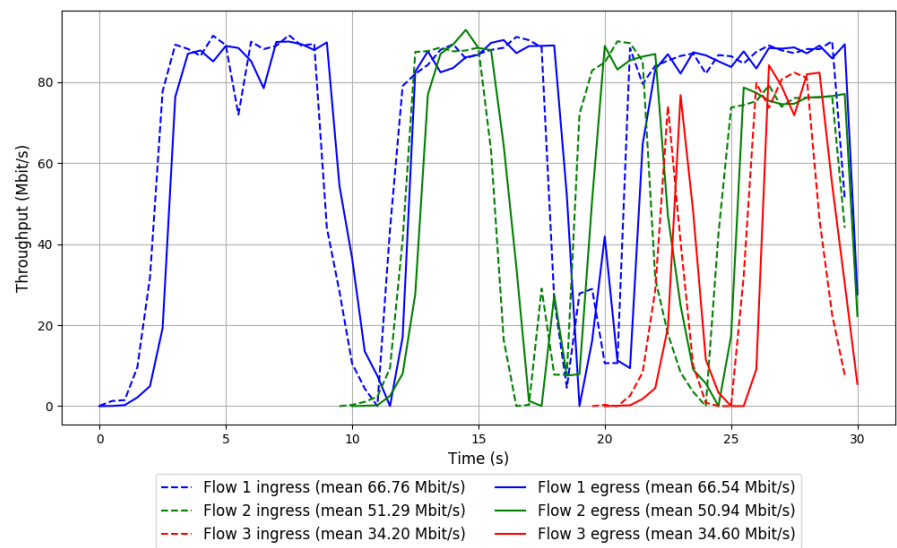
-- Flow 3:

Average throughput: 34.60 Mbit/s

95th percentile per-packet one-way delay: 135.377 ms

Loss rate: 1.06%

Run 8: Report of QUIC Cubic — Data Link

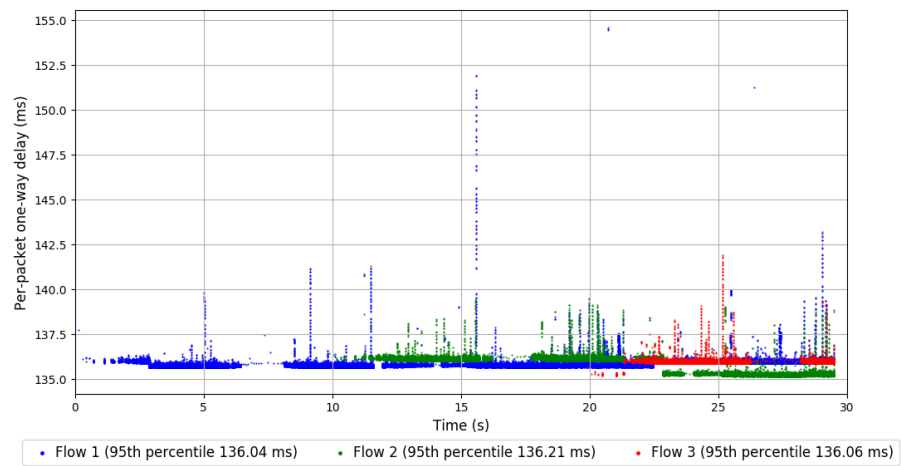
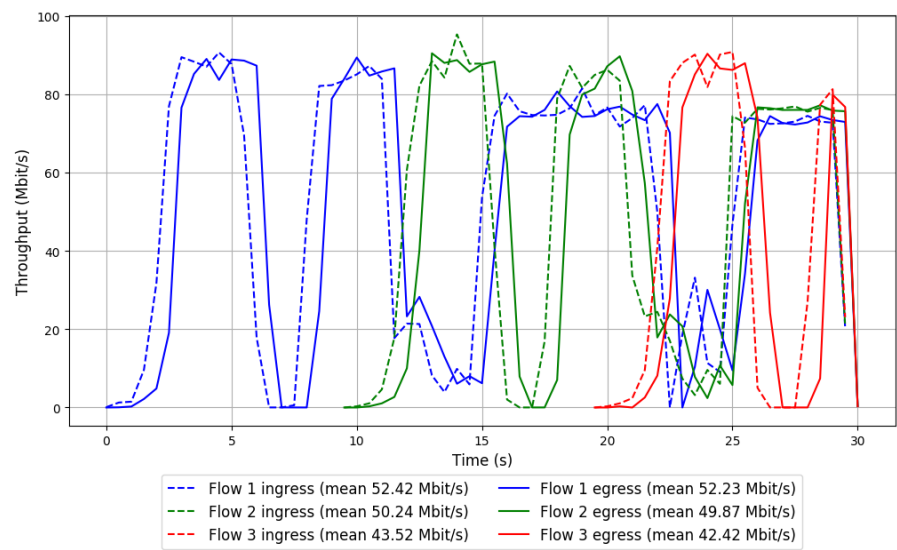


Run 9: Statistics of QUIC Cubic

Start at: 2018-06-01 02:08:41
End at: 2018-06-01 02:09:11
Local clock offset: -0.242 ms
Remote clock offset: -0.032 ms

Below is generated by plot.py at 2018-06-01 04:20:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 99.39 Mbit/s
95th percentile per-packet one-way delay: 136.166 ms
Loss rate: 2.11%
-- Flow 1:
Average throughput: 52.23 Mbit/s
95th percentile per-packet one-way delay: 136.042 ms
Loss rate: 1.28%
-- Flow 2:
Average throughput: 49.87 Mbit/s
95th percentile per-packet one-way delay: 136.211 ms
Loss rate: 2.07%
-- Flow 3:
Average throughput: 42.42 Mbit/s
95th percentile per-packet one-way delay: 136.061 ms
Loss rate: 5.17%

Run 9: Report of QUIC Cubic — Data Link

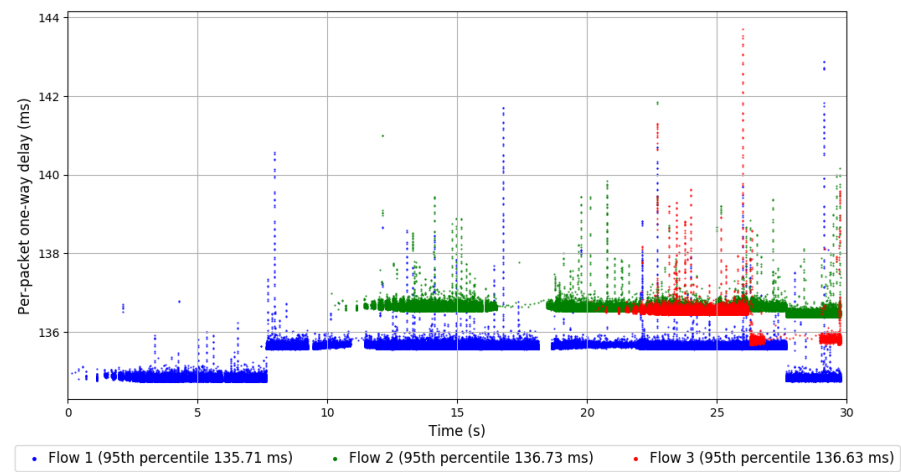
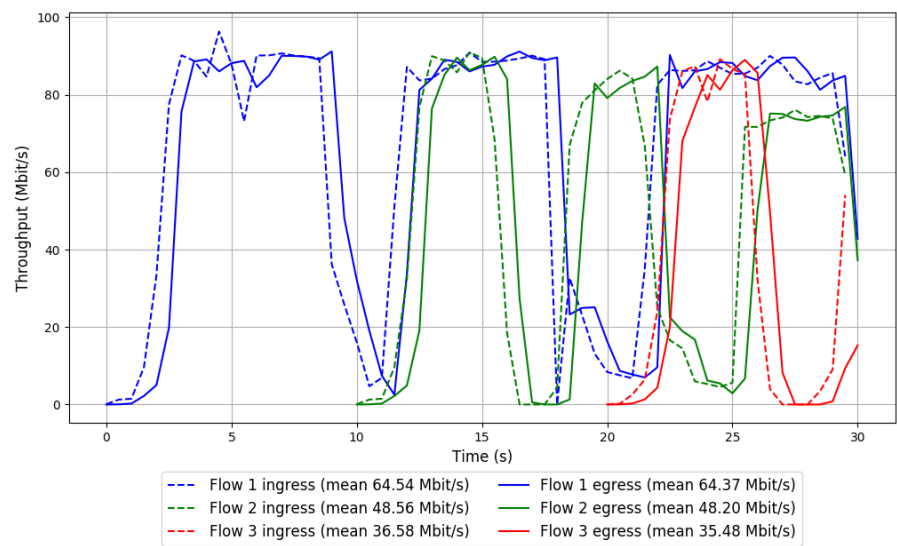


Run 10: Statistics of QUIC Cubic

Start at: 2018-06-01 02:33:57
End at: 2018-06-01 02:34:27
Local clock offset: -0.119 ms
Remote clock offset: -0.374 ms

Below is generated by plot.py at 2018-06-01 04:20:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 107.79 Mbit/s
95th percentile per-packet one-way delay: 136.667 ms
Loss rate: 1.94%
-- Flow 1:
Average throughput: 64.37 Mbit/s
95th percentile per-packet one-way delay: 135.711 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 48.20 Mbit/s
95th percentile per-packet one-way delay: 136.730 ms
Loss rate: 2.09%
-- Flow 3:
Average throughput: 35.48 Mbit/s
95th percentile per-packet one-way delay: 136.630 ms
Loss rate: 5.70%

Run 10: Report of QUIC Cubic — Data Link

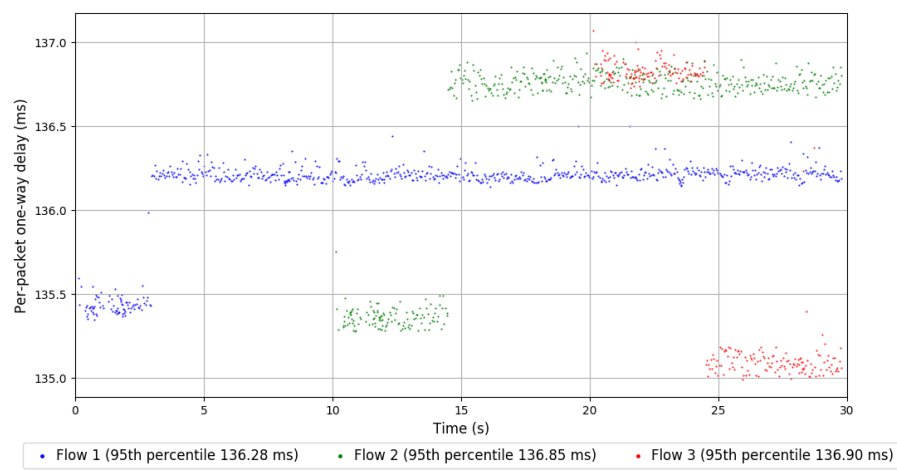
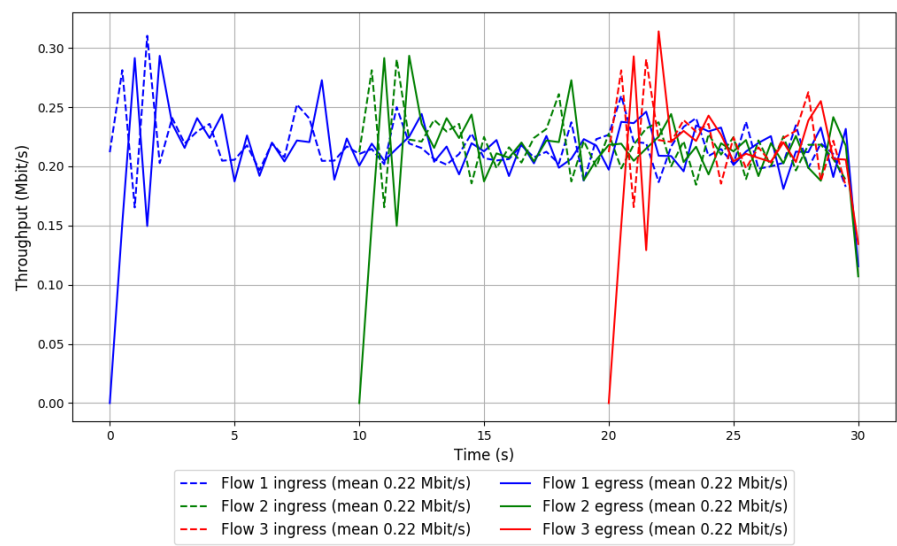


Run 1: Statistics of SReAM

Start at: 2018-05-31 22:43:20
End at: 2018-05-31 22:43:50
Local clock offset: -0.574 ms
Remote clock offset: -0.285 ms

Below is generated by plot.py at 2018-06-01 04:20:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.843 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.281 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.850 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.896 ms
Loss rate: 2.59%

Run 1: Report of SReAM — Data Link

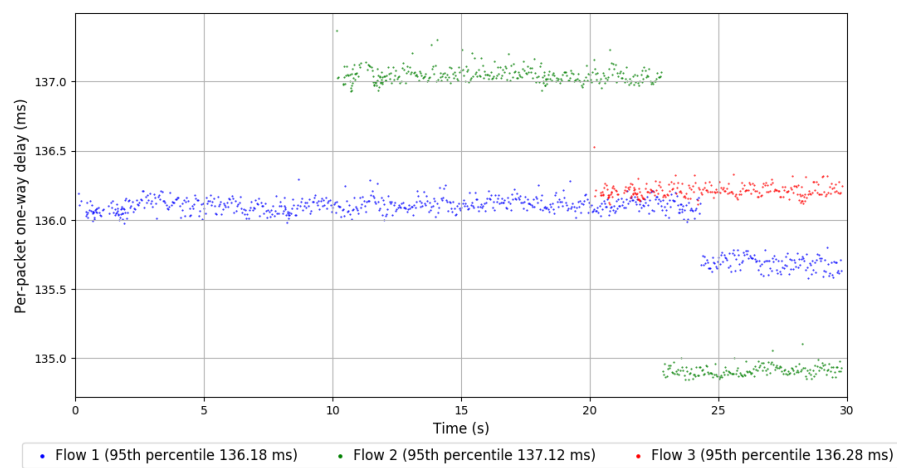
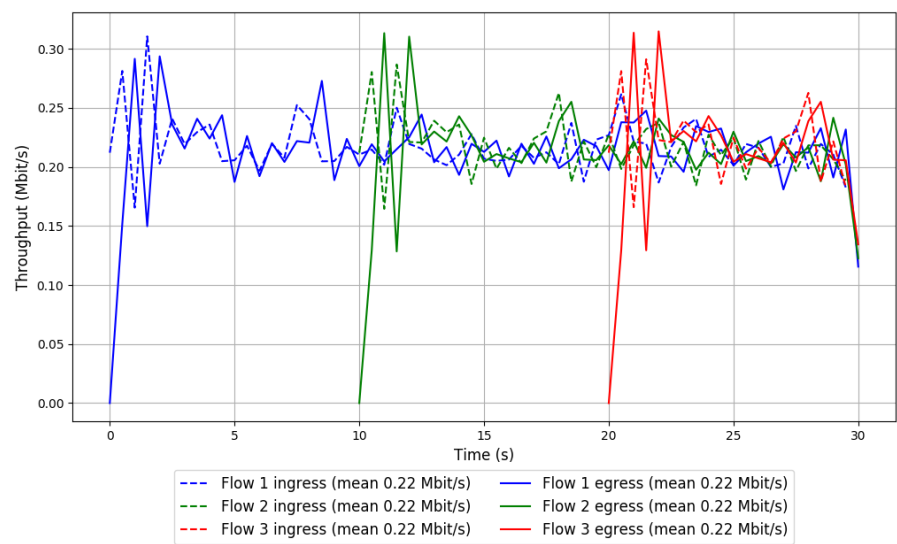


Run 2: Statistics of SReAM

Start at: 2018-05-31 23:08:50
End at: 2018-05-31 23:09:20
Local clock offset: -0.136 ms
Remote clock offset: -0.218 ms

Below is generated by plot.py at 2018-06-01 04:20:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.077 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.178 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.119 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.277 ms
Loss rate: 2.58%

Run 2: Report of SReAM — Data Link

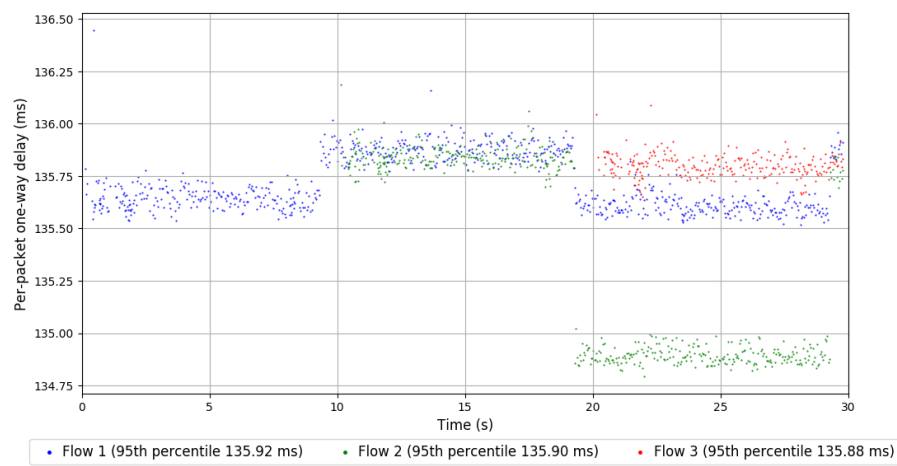
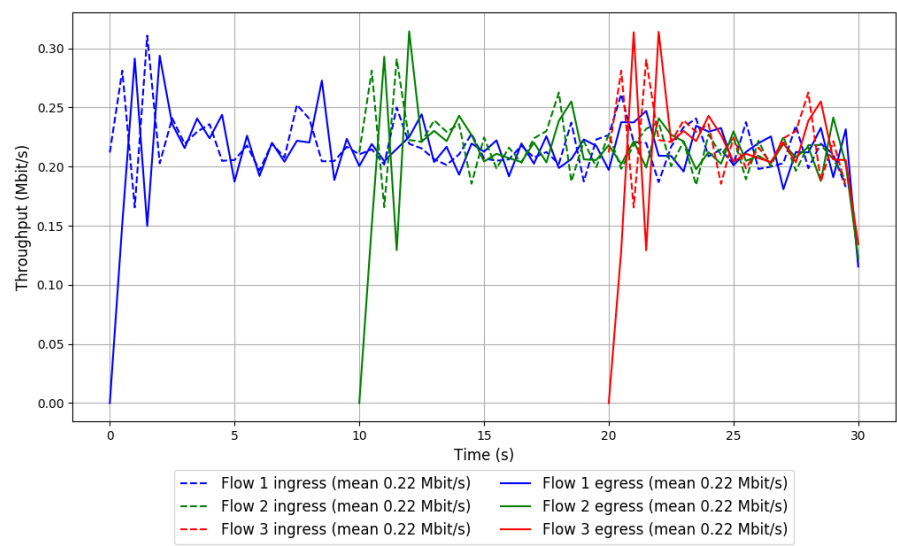


Run 3: Statistics of SReAM

Start at: 2018-05-31 23:34:15
End at: 2018-05-31 23:34:45
Local clock offset: -0.223 ms
Remote clock offset: -0.004 ms

Below is generated by plot.py at 2018-06-01 04:20:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 135.914 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.923 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.895 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.878 ms
Loss rate: 2.59%

Run 3: Report of SReAM — Data Link

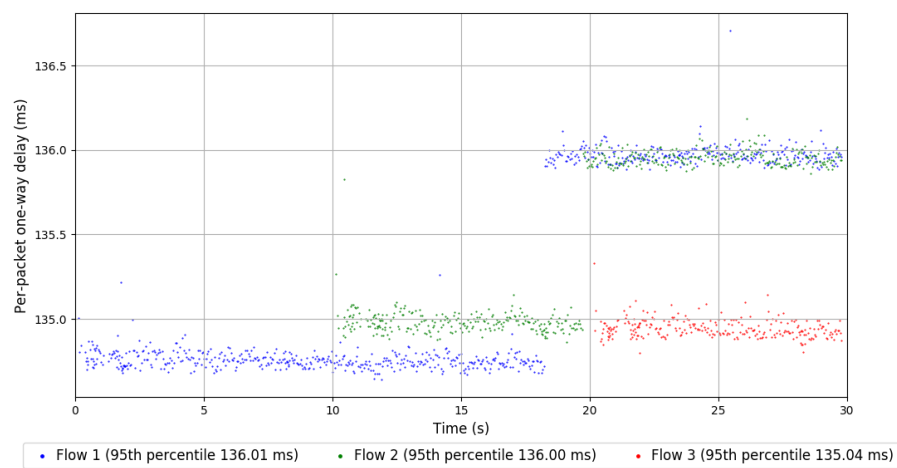
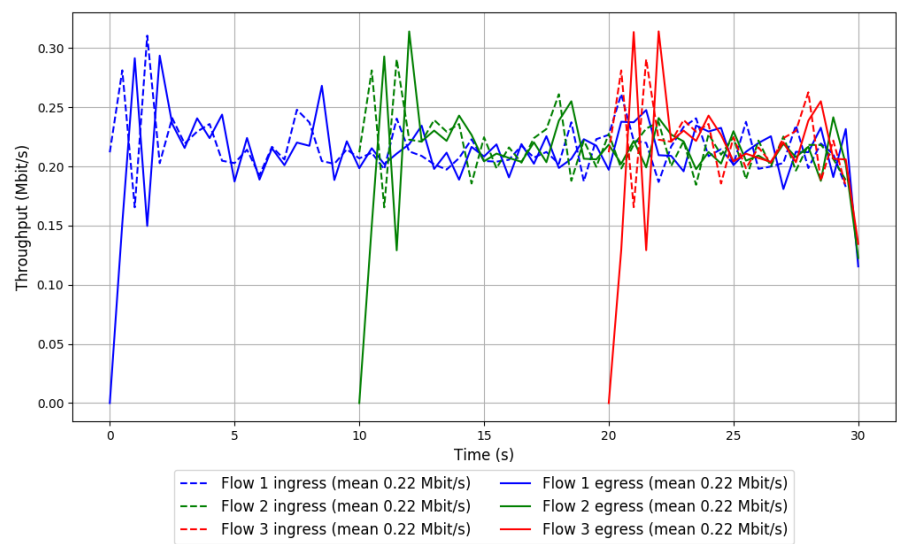


Run 4: Statistics of SReAM

Start at: 2018-05-31 23:59:45
End at: 2018-06-01 00:00:15
Local clock offset: -0.099 ms
Remote clock offset: -0.059 ms

Below is generated by plot.py at 2018-06-01 04:20:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 136.004 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.011 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.005 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.041 ms
Loss rate: 2.59%

Run 4: Report of SReAM — Data Link

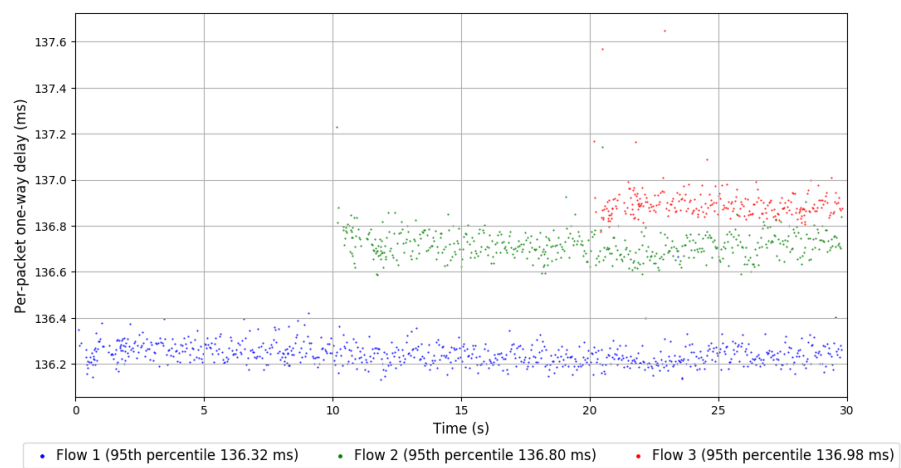
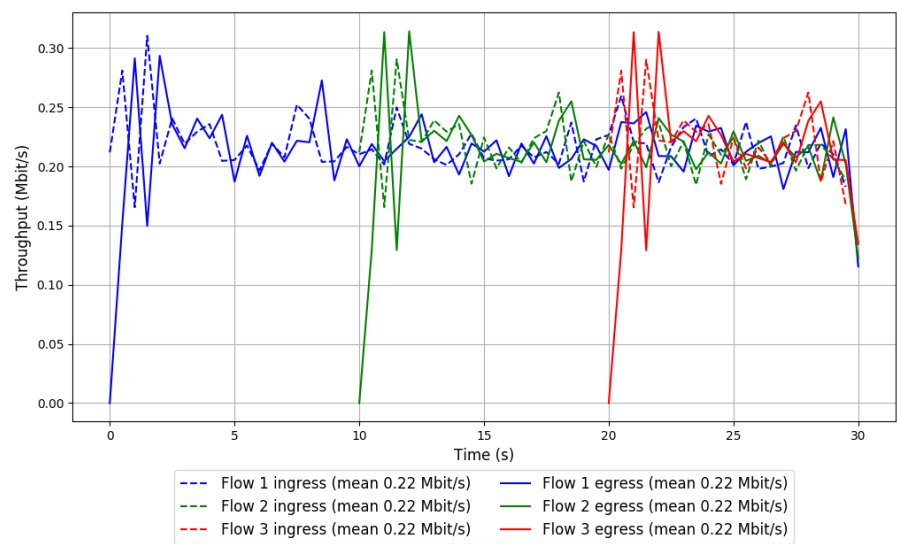


Run 5: Statistics of SReAM

Start at: 2018-06-01 00:24:55
End at: 2018-06-01 00:25:25
Local clock offset: 0.17 ms
Remote clock offset: -0.013 ms

Below is generated by plot.py at 2018-06-01 04:20:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.910 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.319 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.801 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.976 ms
Loss rate: 2.25%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-06-01 00:50:28

End at: 2018-06-01 00:50:58

Local clock offset: 0.263 ms

Remote clock offset: 0.027 ms

Below is generated by plot.py at 2018-06-01 04:20:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 136.670 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.103 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.706 ms

Loss rate: 1.43%

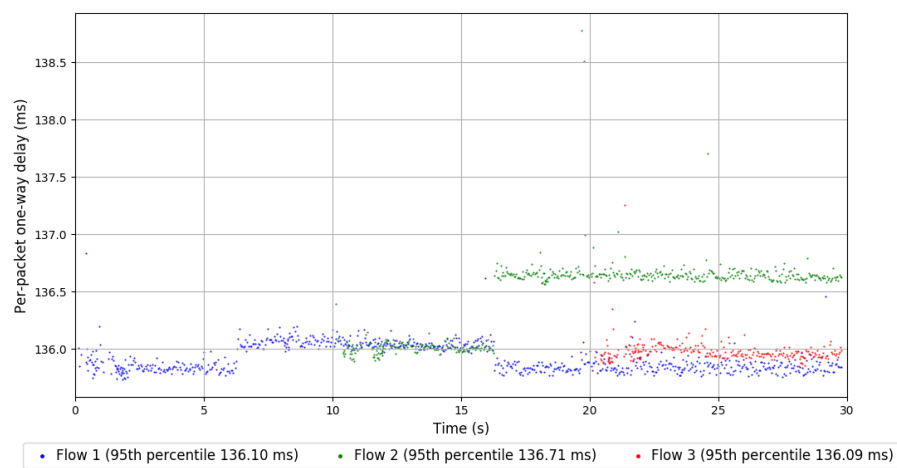
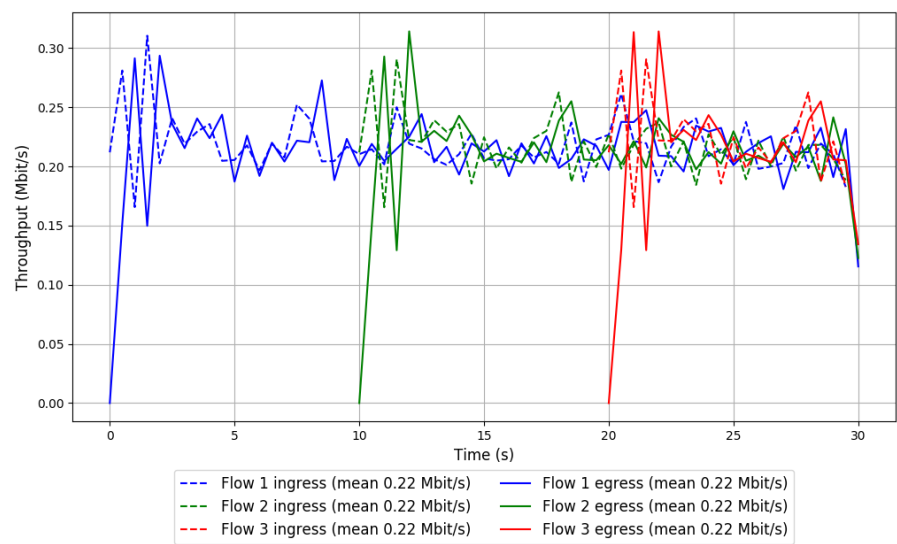
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.085 ms

Loss rate: 2.59%

Run 6: Report of SReAM — Data Link

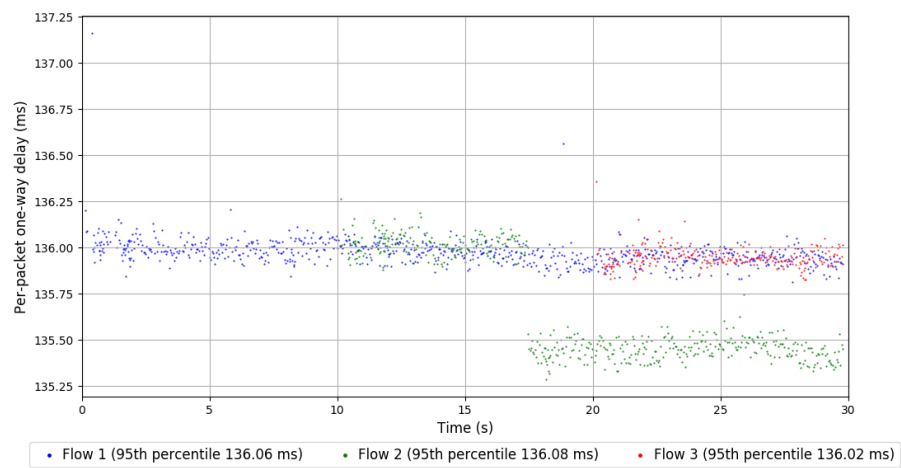
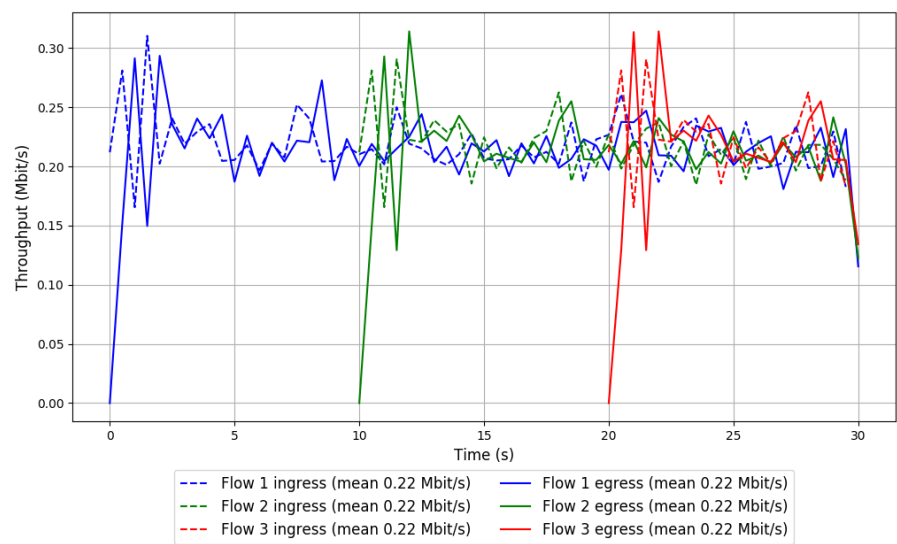


Run 7: Statistics of SReAM

Start at: 2018-06-01 01:15:37
End at: 2018-06-01 01:16:07
Local clock offset: -0.088 ms
Remote clock offset: 0.049 ms

Below is generated by plot.py at 2018-06-01 04:20:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.068 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.065 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.076 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.022 ms
Loss rate: 2.59%

Run 7: Report of SReAM — Data Link

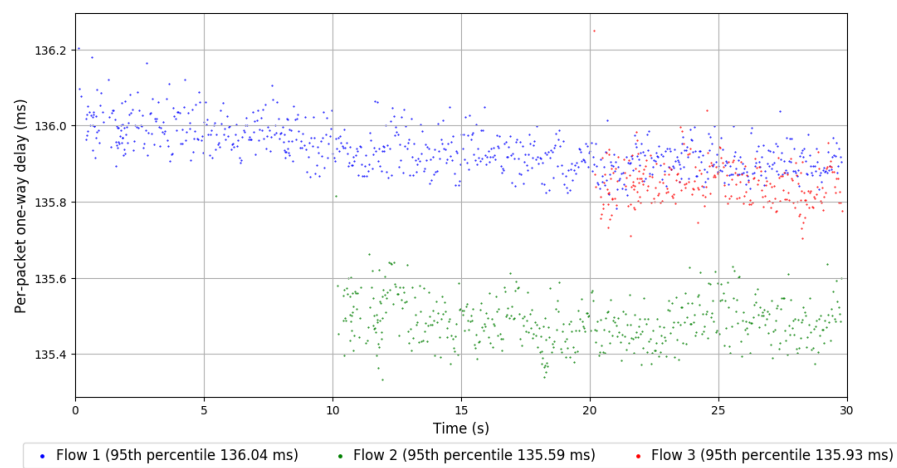
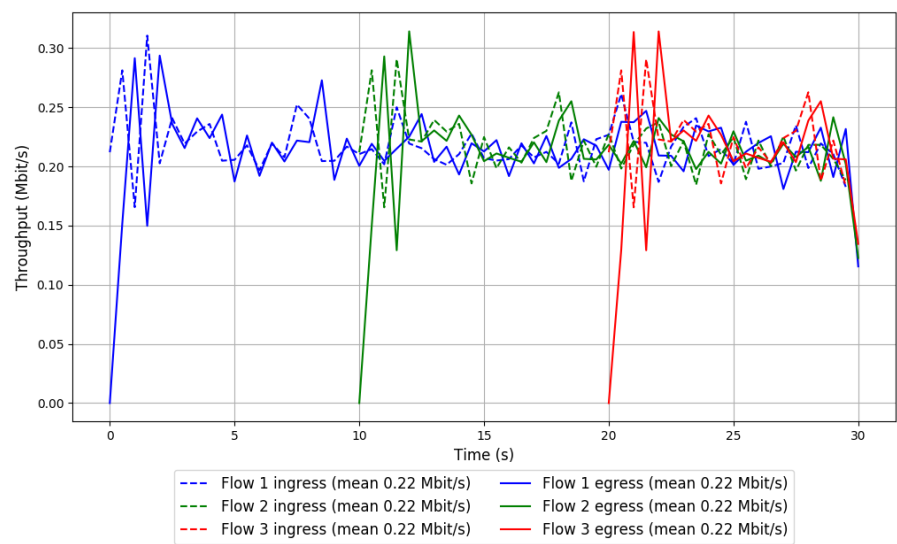


Run 8: Statistics of SReAM

Start at: 2018-06-01 01:40:46
End at: 2018-06-01 01:41:16
Local clock offset: -0.232 ms
Remote clock offset: 0.007 ms

Below is generated by plot.py at 2018-06-01 04:20:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.022 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.042 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.588 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.928 ms
Loss rate: 2.59%

Run 8: Report of SReAM — Data Link

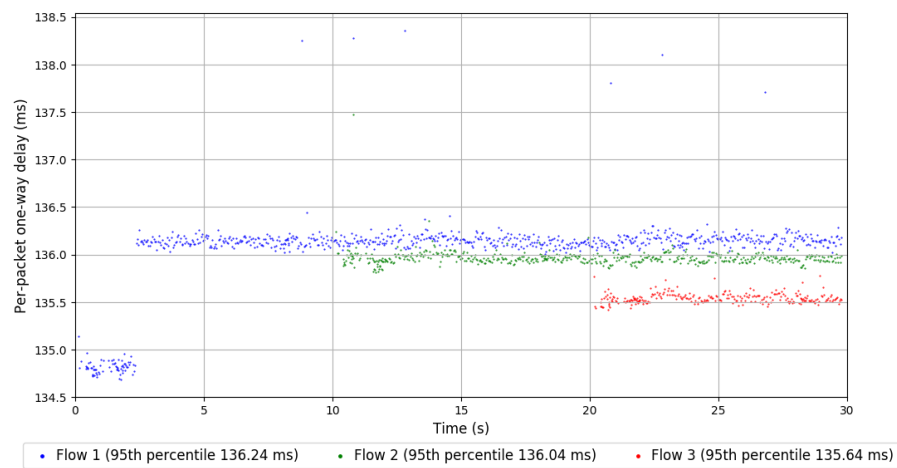
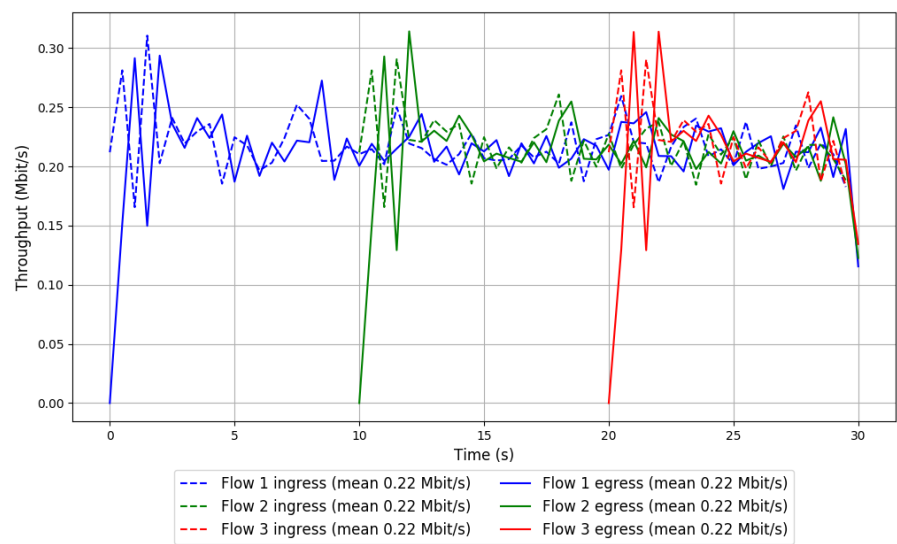


Run 9: Statistics of SReAM

Start at: 2018-06-01 02:06:02
End at: 2018-06-01 02:06:32
Local clock offset: -0.059 ms
Remote clock offset: 0.019 ms

Below is generated by plot.py at 2018-06-01 04:20:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.212 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.243 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.044 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.638 ms
Loss rate: 2.59%

Run 9: Report of SReAM — Data Link

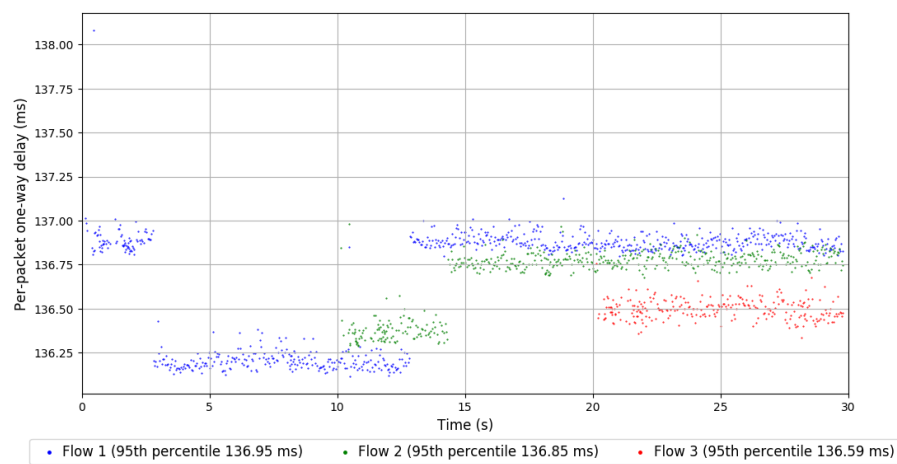
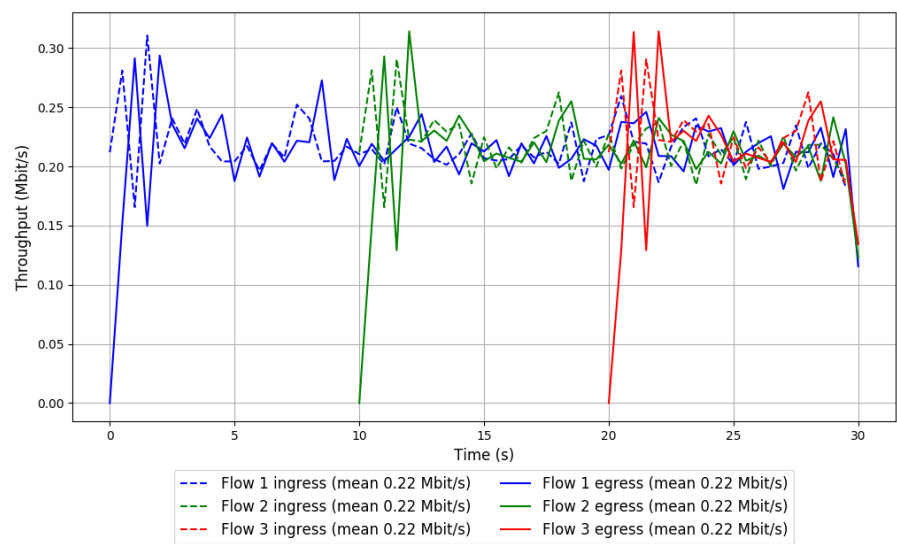


Run 10: Statistics of SReAM

Start at: 2018-06-01 02:31:20
End at: 2018-06-01 02:31:50
Local clock offset: -0.002 ms
Remote clock offset: -0.358 ms

Below is generated by plot.py at 2018-06-01 04:20:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.929 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.952 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.852 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.592 ms
Loss rate: 2.59%

Run 10: Report of SReAM — Data Link

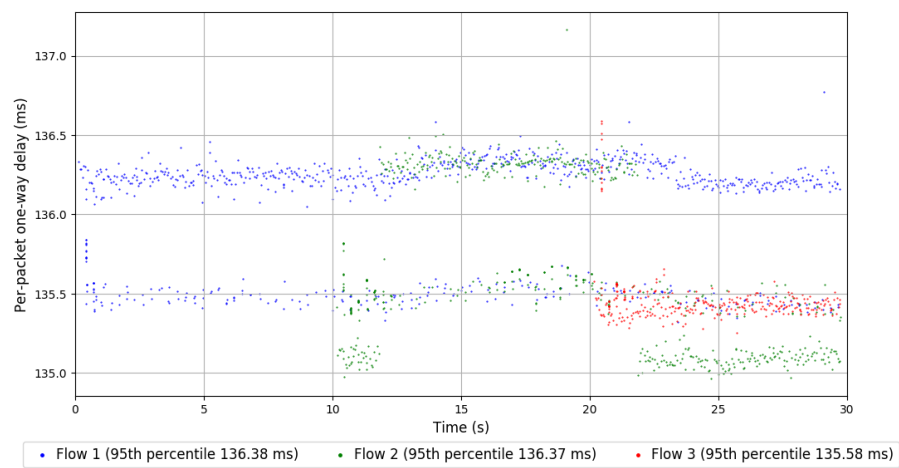
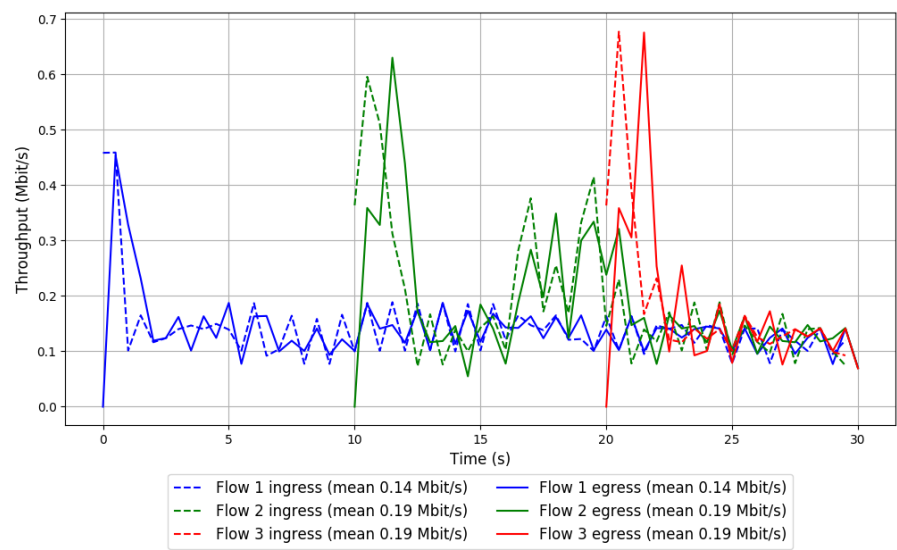


Run 1: Statistics of Sprout

Start at: 2018-05-31 22:22:01
End at: 2018-05-31 22:22:31
Local clock offset: -0.555 ms
Remote clock offset: -0.362 ms

Below is generated by plot.py at 2018-06-01 04:20:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 136.369 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 136.378 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 136.371 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 135.578 ms
Loss rate: 1.31%

Run 1: Report of Sprout — Data Link

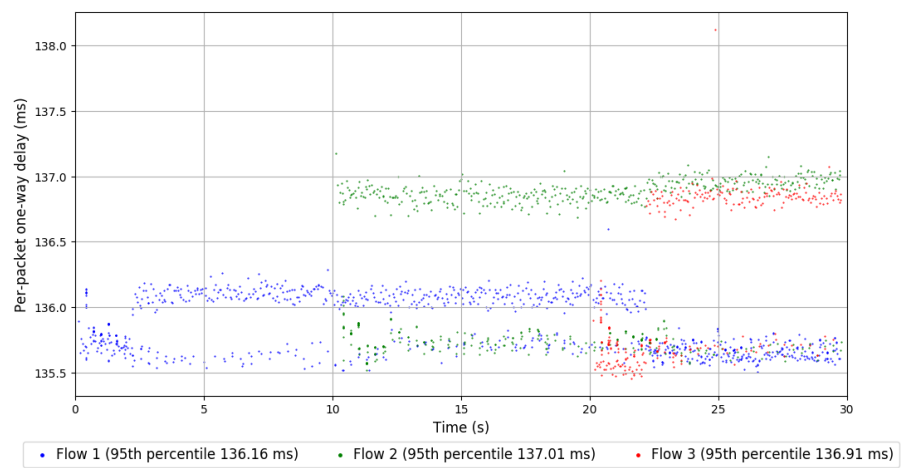
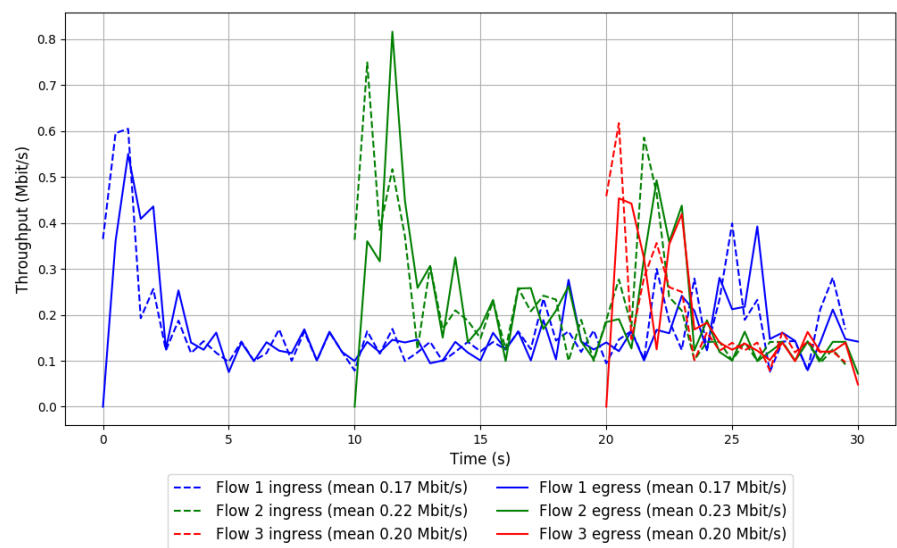


Run 2: Statistics of Sprout

Start at: 2018-05-31 22:47:22
End at: 2018-05-31 22:47:52
Local clock offset: -0.414 ms
Remote clock offset: -0.307 ms

```
# Below is generated by plot.py at 2018-06-01 04:20:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 136.958 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 136.157 ms
Loss rate: 1.59%
-- Flow 2:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 137.006 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 136.905 ms
Loss rate: 1.84%
```

Run 2: Report of Sprout — Data Link

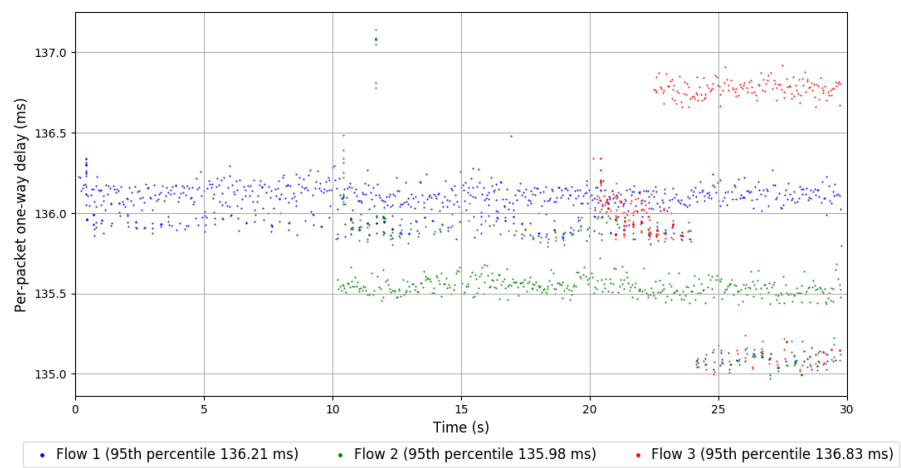
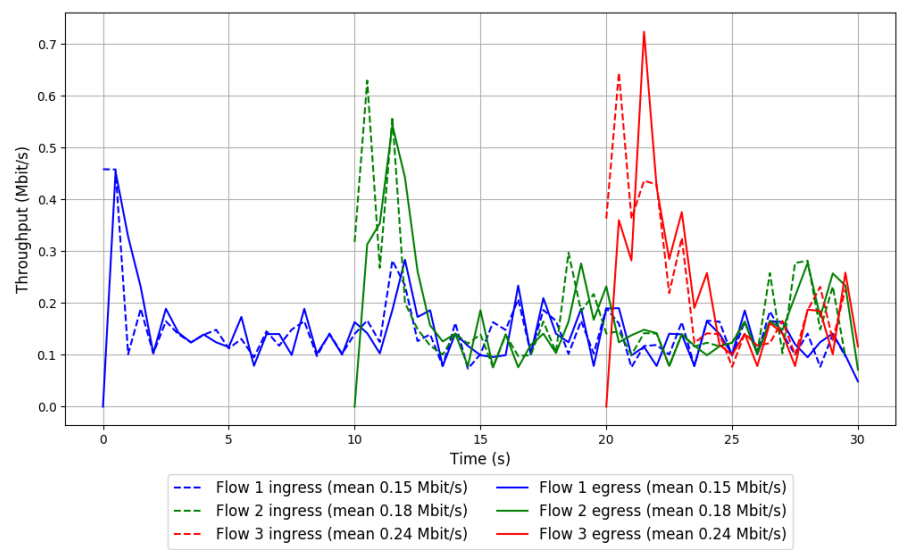


Run 3: Statistics of Sprout

Start at: 2018-05-31 23:12:50
End at: 2018-05-31 23:13:20
Local clock offset: 0.129 ms
Remote clock offset: 0.151 ms

```
# Below is generated by plot.py at 2018-06-01 04:20:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 136.774 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 136.214 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 135.976 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 136.833 ms
Loss rate: 2.47%
```

Run 3: Report of Sprout — Data Link

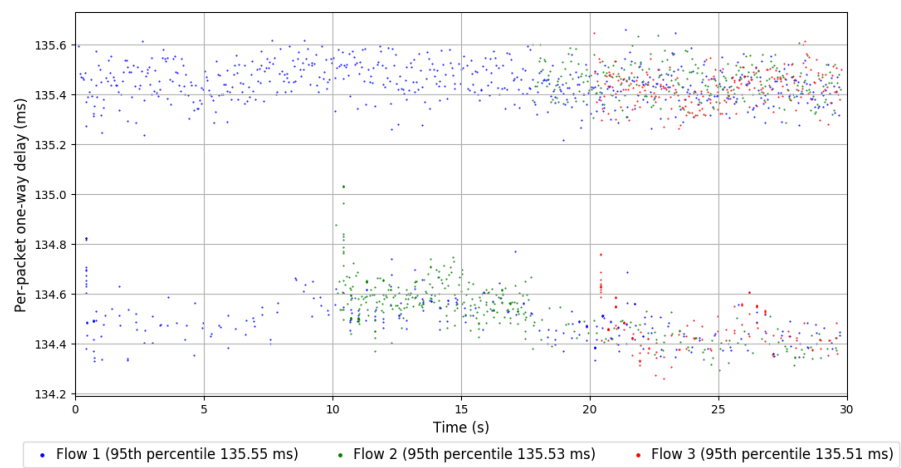
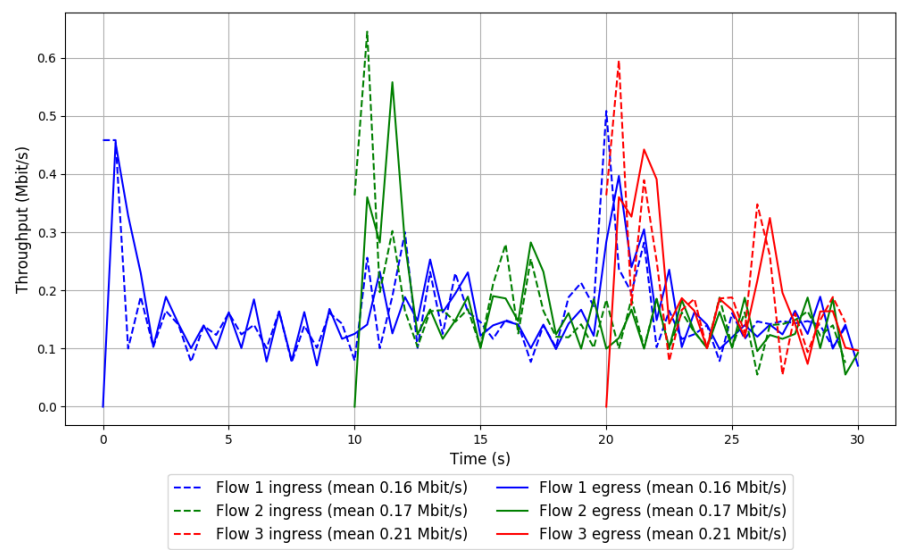


Run 4: Statistics of Sprout

Start at: 2018-05-31 23:38:16
End at: 2018-05-31 23:38:46
Local clock offset: -0.285 ms
Remote clock offset: 0.336 ms

```
# Below is generated by plot.py at 2018-06-01 04:20:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 135.542 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 135.552 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 135.531 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 135.509 ms
Loss rate: 3.33%
```

Run 4: Report of Sprout — Data Link

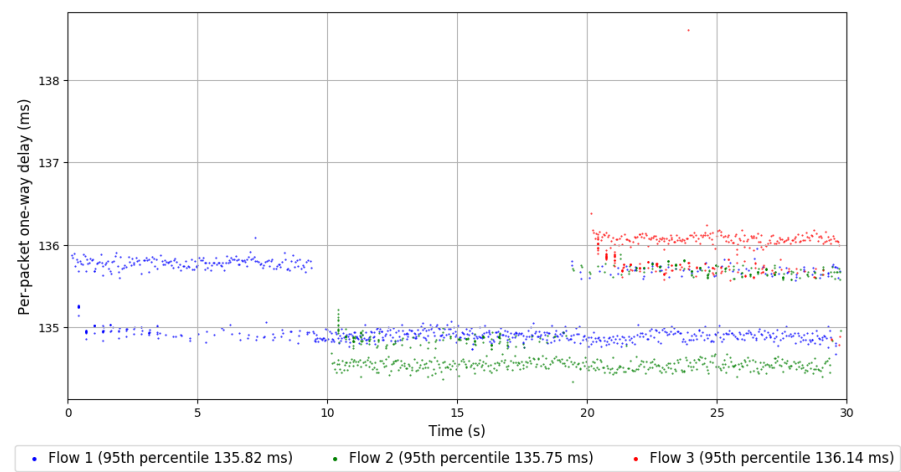
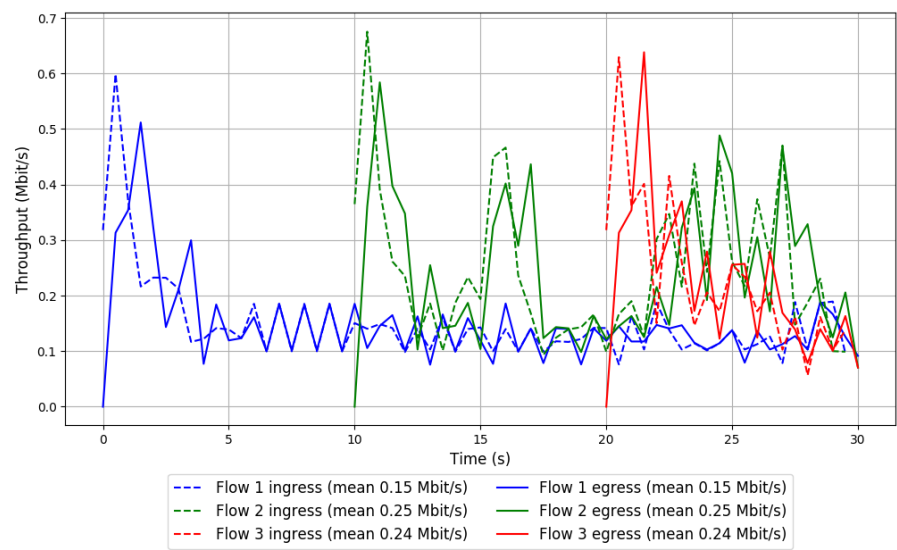


Run 5: Statistics of Sprout

Start at: 2018-06-01 00:03:45
End at: 2018-06-01 00:04:15
Local clock offset: -0.323 ms
Remote clock offset: -0.035 ms

```
# Below is generated by plot.py at 2018-06-01 04:20:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 136.079 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 135.825 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 135.747 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 136.140 ms
Loss rate: 1.55%
```


Run 5: Report of Sprout — Data Link

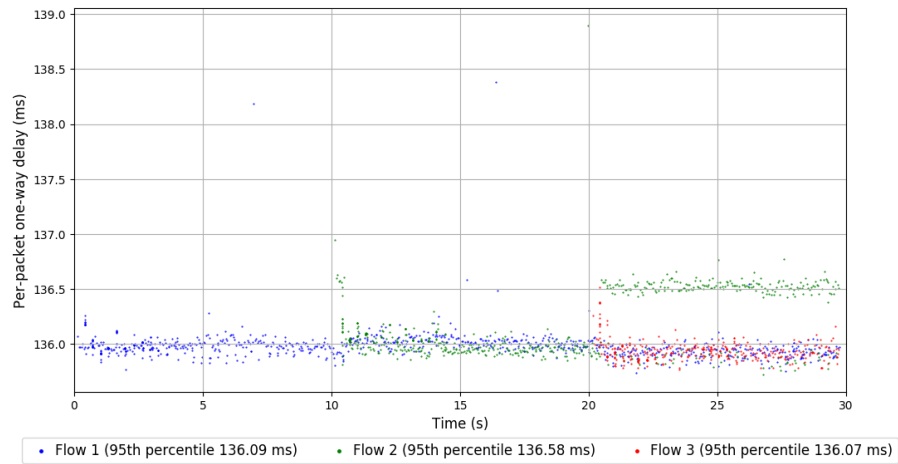
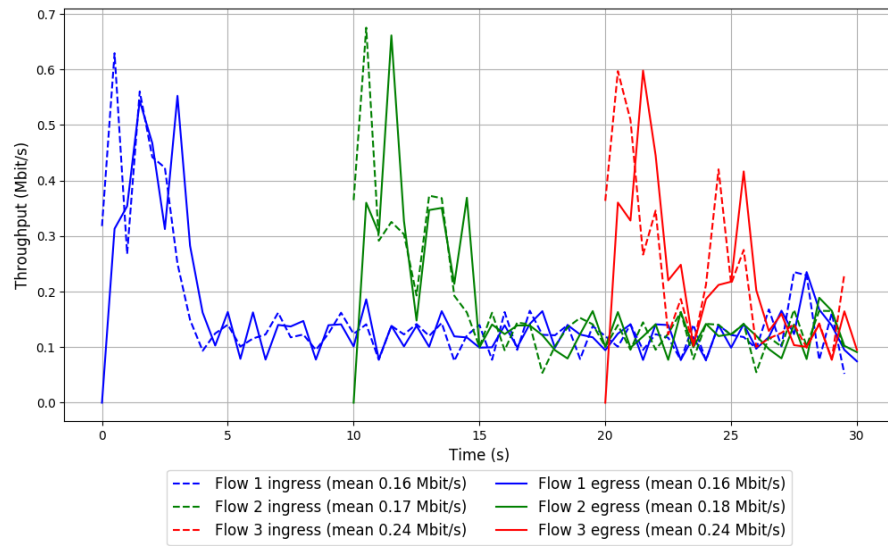


Run 6: Statistics of Sprout

Start at: 2018-06-01 00:28:54
End at: 2018-06-01 00:29:24
Local clock offset: -0.005 ms
Remote clock offset: 0.005 ms

```
# Below is generated by plot.py at 2018-06-01 04:20:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 136.532 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 136.088 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 136.576 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 136.073 ms
Loss rate: 3.05%
```

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-06-01 00:54:29

End at: 2018-06-01 00:54:59

Local clock offset: 0.17 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2018-06-01 04:20:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 136.495 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 135.988 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 135.976 ms

Loss rate: 1.65%

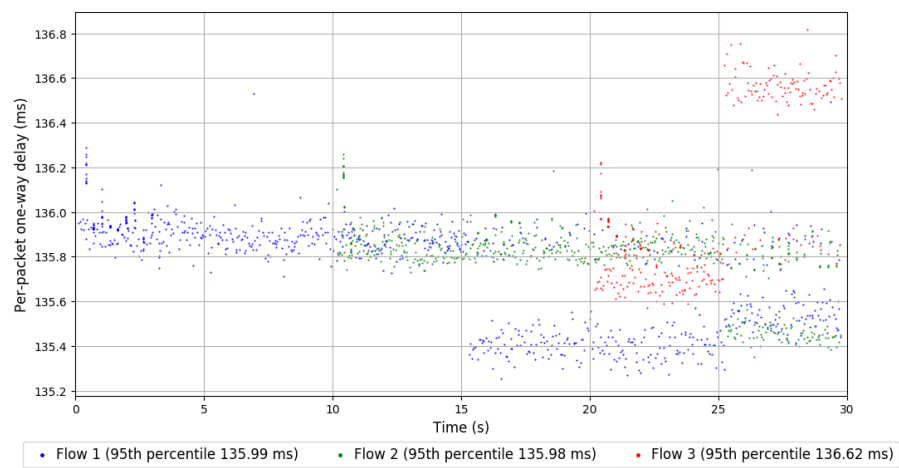
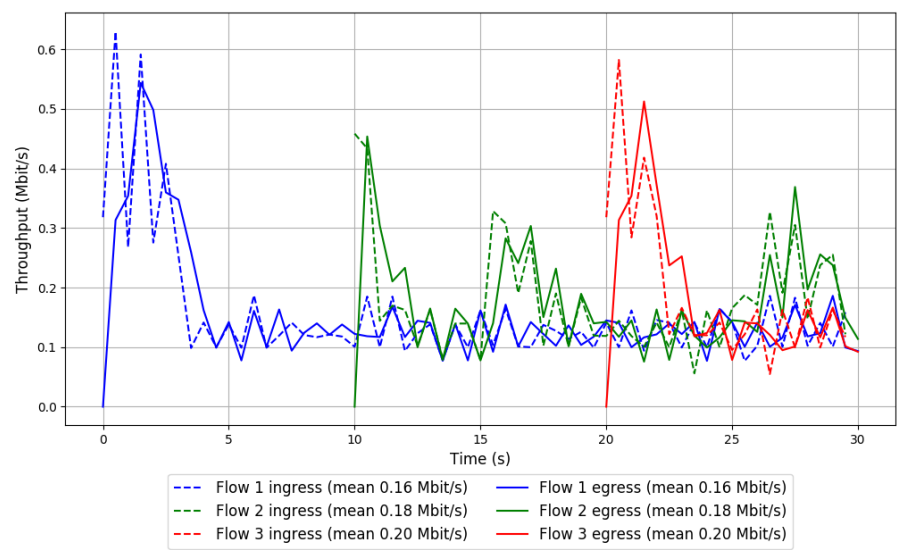
-- Flow 3:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 136.622 ms

Loss rate: 2.35%

Run 7: Report of Sprout — Data Link

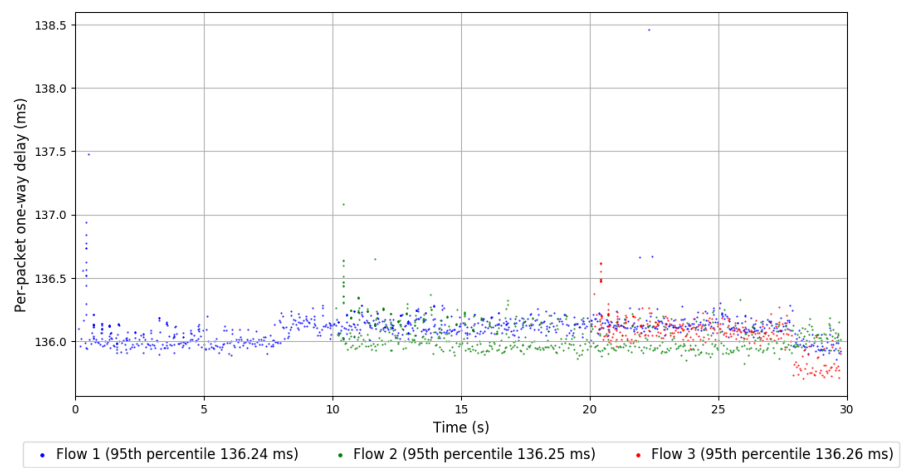
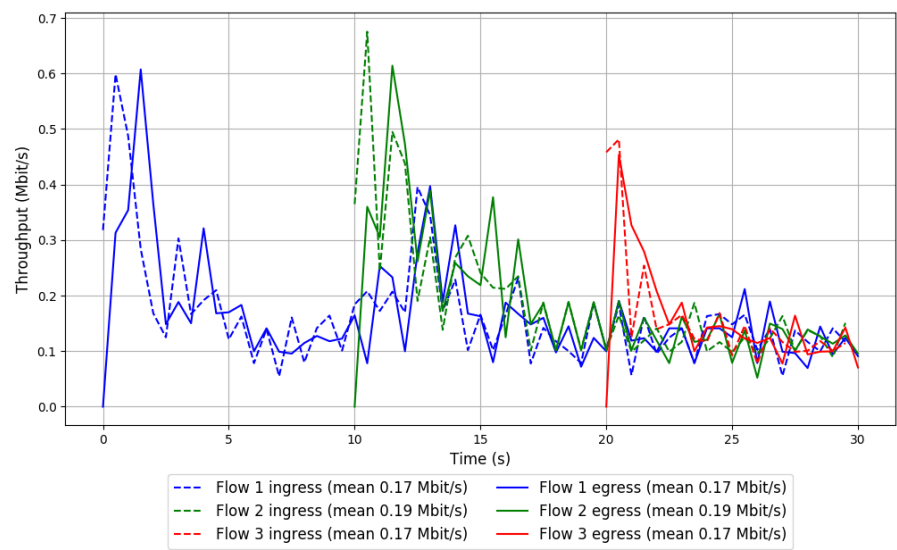


Run 8: Statistics of Sprout

Start at: 2018-06-01 01:19:36
End at: 2018-06-01 01:20:06
Local clock offset: -0.274 ms
Remote clock offset: -0.336 ms

```
# Below is generated by plot.py at 2018-06-01 04:20:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 136.250 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 136.239 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 136.255 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 136.261 ms
Loss rate: 1.44%
```

Run 8: Report of Sprout — Data Link

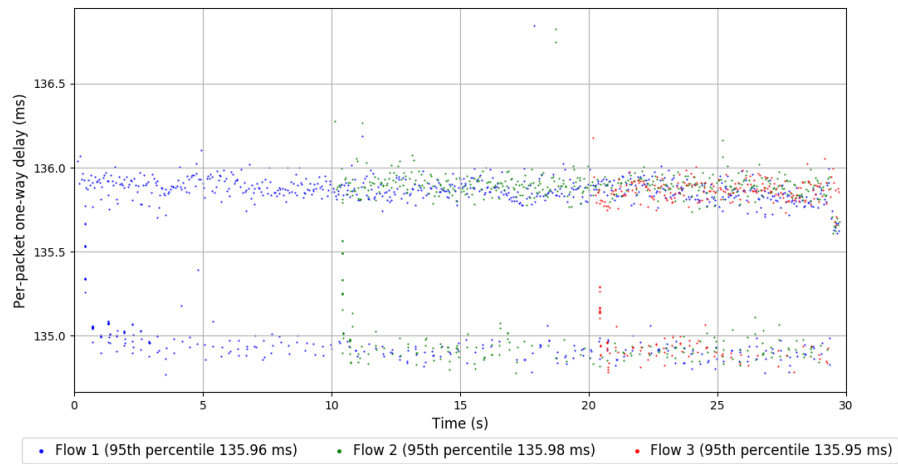
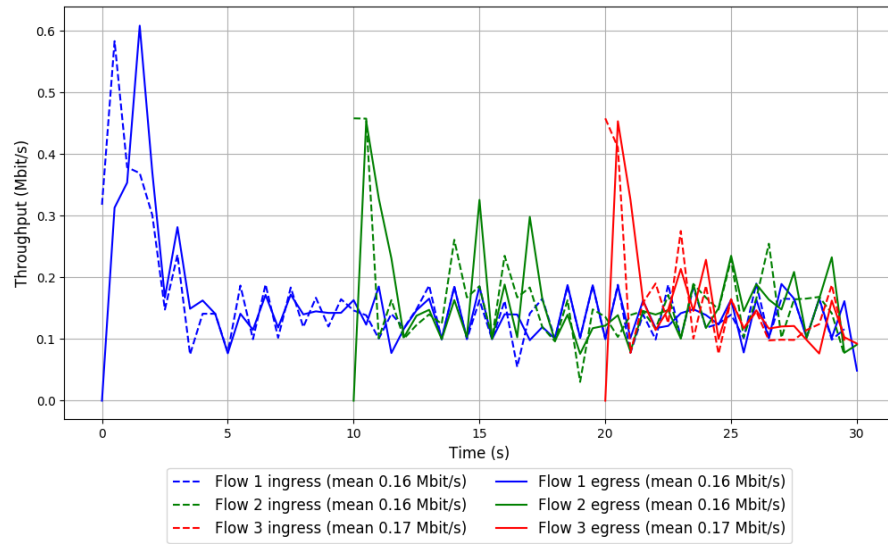


Run 9: Statistics of Sprout

Start at: 2018-06-01 01:44:45
End at: 2018-06-01 01:45:15
Local clock offset: -0.254 ms
Remote clock offset: 0.012 ms

Below is generated by plot.py at 2018-06-01 04:20:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 135.962 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 135.959 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 135.976 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 135.946 ms
Loss rate: 2.85%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-06-01 02:10:03

End at: 2018-06-01 02:10:33

Local clock offset: -0.331 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-06-01 04:20:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 136.382 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 136.409 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 135.649 ms

Loss rate: 1.07%

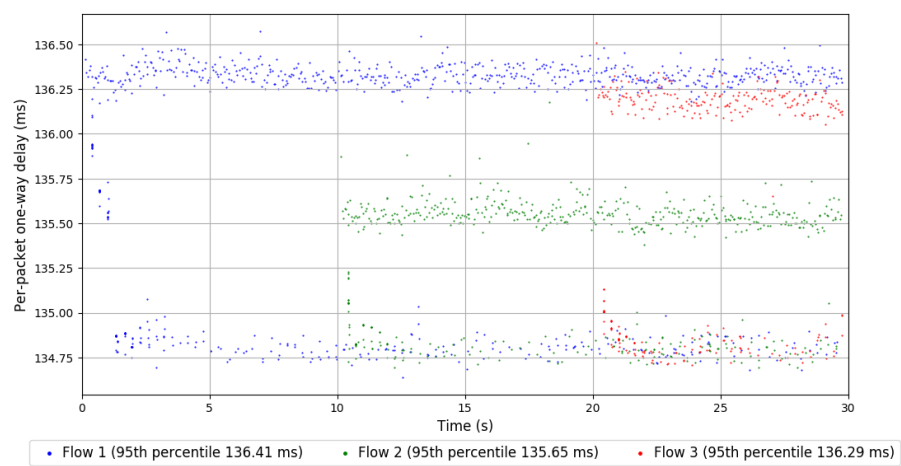
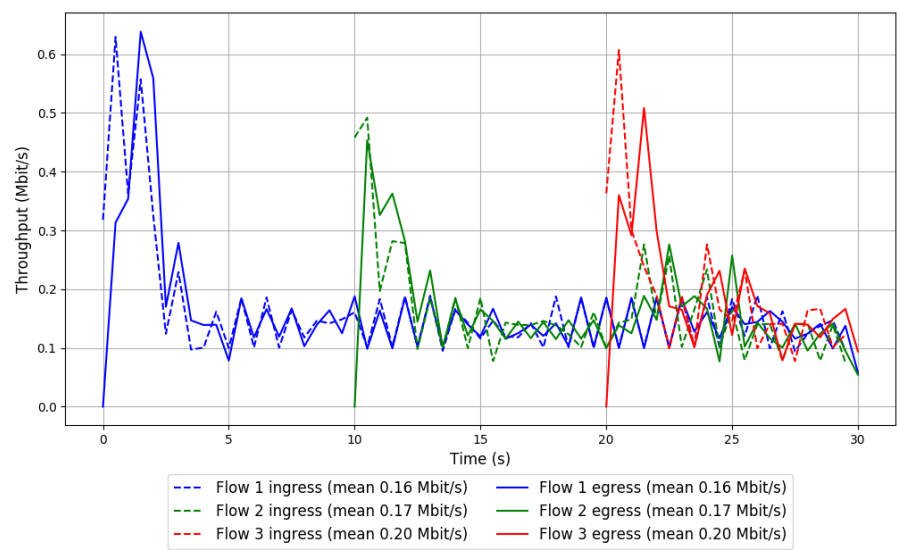
-- Flow 3:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 136.295 ms

Loss rate: 0.80%

Run 10: Report of Sprout — Data Link

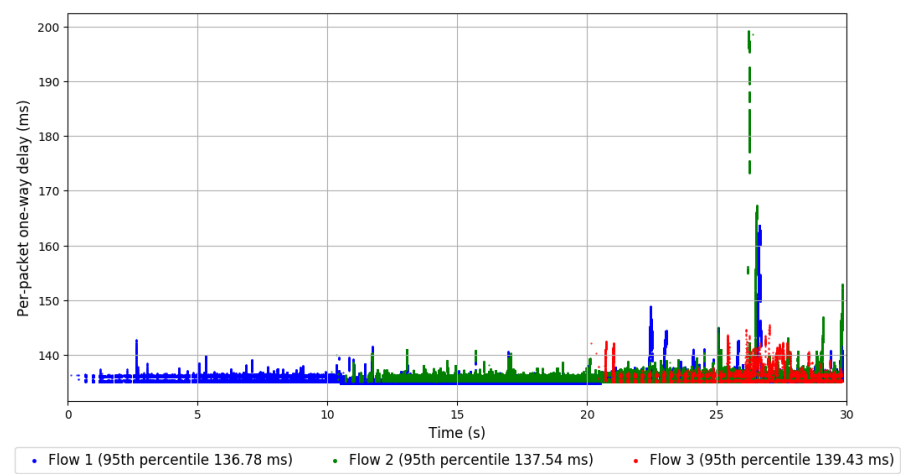
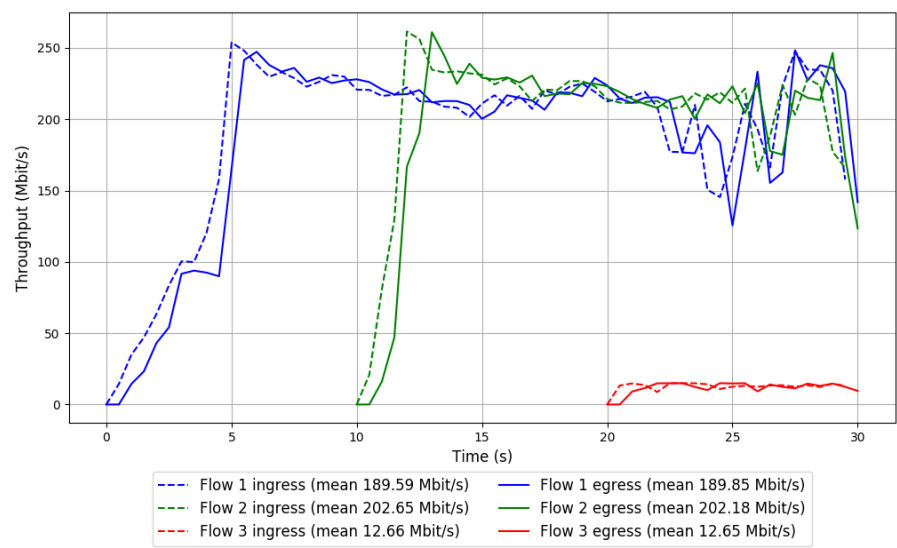


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-05-31 22:25:14
End at: 2018-05-31 22:25:44
Local clock offset: -0.253 ms
Remote clock offset: 0.041 ms

# Below is generated by plot.py at 2018-06-01 04:29:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 328.01 Mbit/s
95th percentile per-packet one-way delay: 137.227 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 189.85 Mbit/s
95th percentile per-packet one-way delay: 136.785 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 202.18 Mbit/s
95th percentile per-packet one-way delay: 137.543 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 12.65 Mbit/s
95th percentile per-packet one-way delay: 139.434 ms
Loss rate: 2.93%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-05-31 22:50:33

End at: 2018-05-31 22:51:03

Local clock offset: -0.425 ms

Remote clock offset: 0.069 ms

Below is generated by plot.py at 2018-06-01 04:30:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 338.32 Mbit/s

95th percentile per-packet one-way delay: 136.507 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 209.62 Mbit/s

95th percentile per-packet one-way delay: 136.123 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 187.72 Mbit/s

95th percentile per-packet one-way delay: 136.684 ms

Loss rate: 1.08%

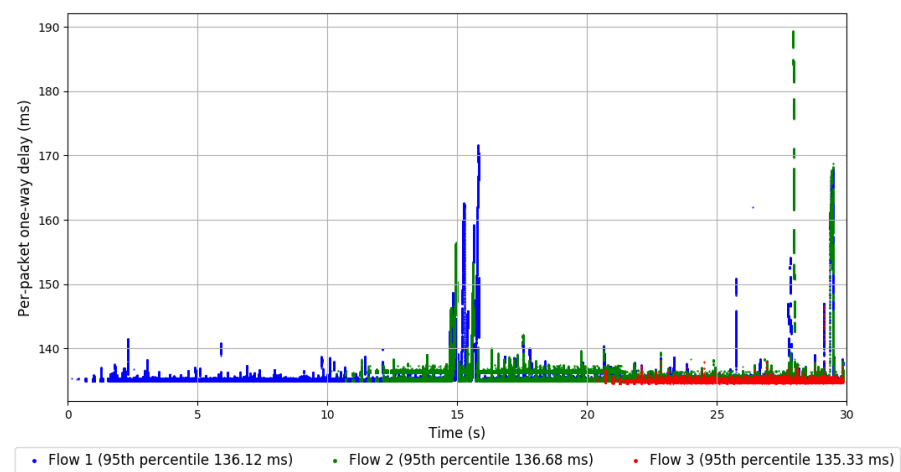
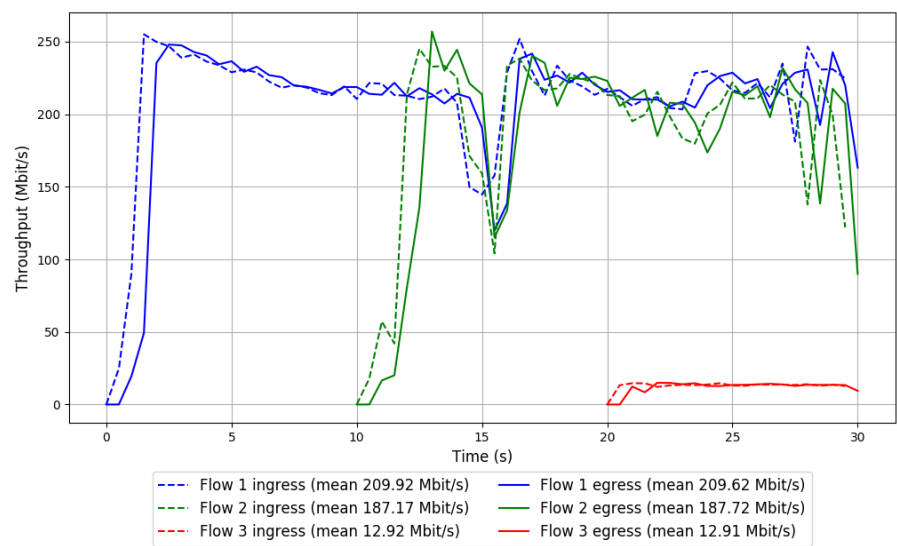
-- Flow 3:

Average throughput: 12.91 Mbit/s

95th percentile per-packet one-way delay: 135.330 ms

Loss rate: 2.79%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-05-31 23:16:10

End at: 2018-05-31 23:16:40

Local clock offset: 0.038 ms

Remote clock offset: 0.17 ms

Below is generated by plot.py at 2018-06-01 04:30:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 284.33 Mbit/s

95th percentile per-packet one-way delay: 136.818 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 115.03 Mbit/s

95th percentile per-packet one-way delay: 136.641 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 175.30 Mbit/s

95th percentile per-packet one-way delay: 137.339 ms

Loss rate: 1.19%

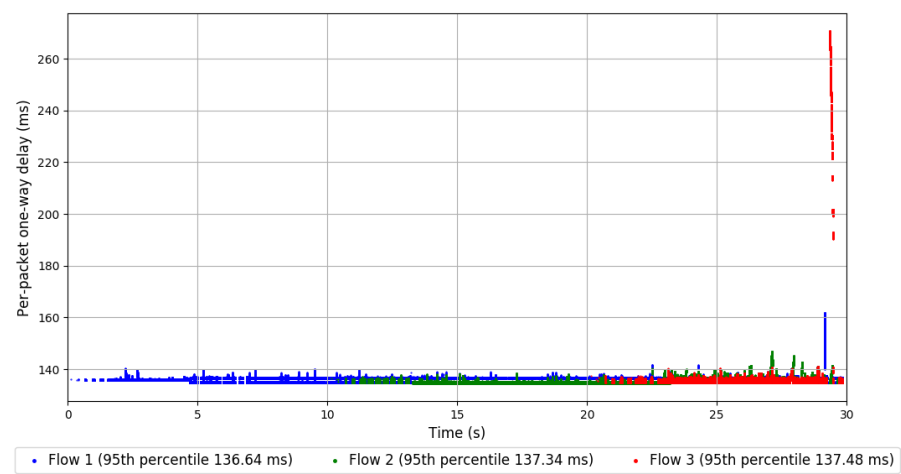
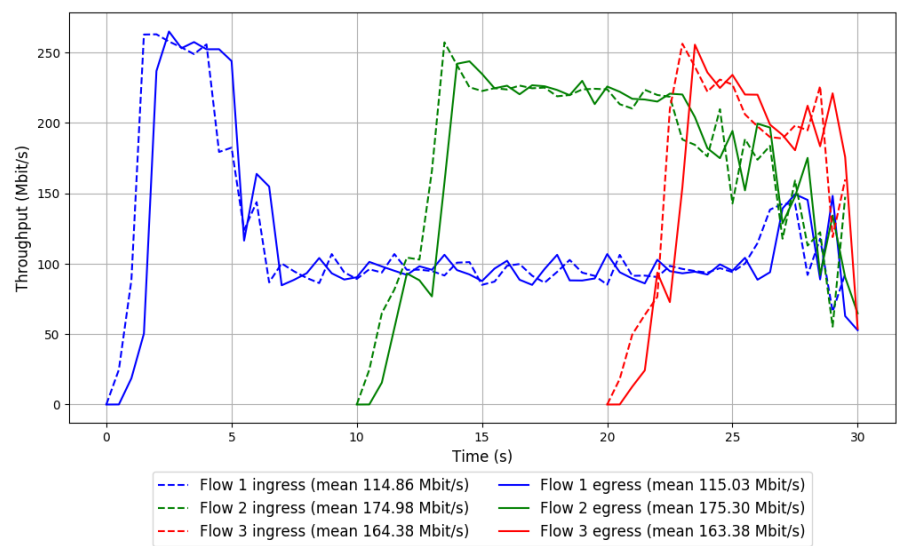
-- Flow 3:

Average throughput: 163.38 Mbit/s

95th percentile per-packet one-way delay: 137.483 ms

Loss rate: 3.34%

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

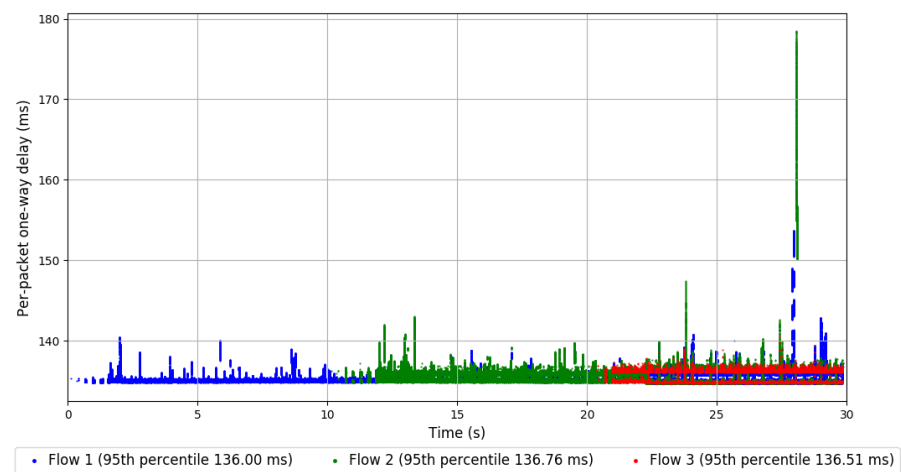
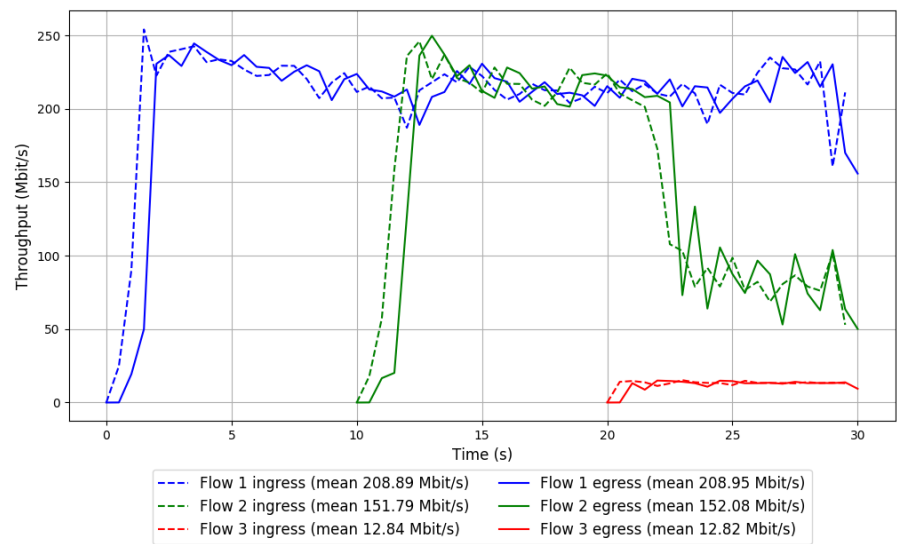


Run 4: Statistics of TaoVA-100x

Start at: 2018-05-31 23:41:32
End at: 2018-05-31 23:42:02
Local clock offset: -0.154 ms
Remote clock offset: -0.081 ms

Below is generated by plot.py at 2018-06-01 04:30:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 314.00 Mbit/s
95th percentile per-packet one-way delay: 136.625 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 208.95 Mbit/s
95th percentile per-packet one-way delay: 135.999 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 152.08 Mbit/s
95th percentile per-packet one-way delay: 136.759 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 12.82 Mbit/s
95th percentile per-packet one-way delay: 136.510 ms
Loss rate: 2.87%

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

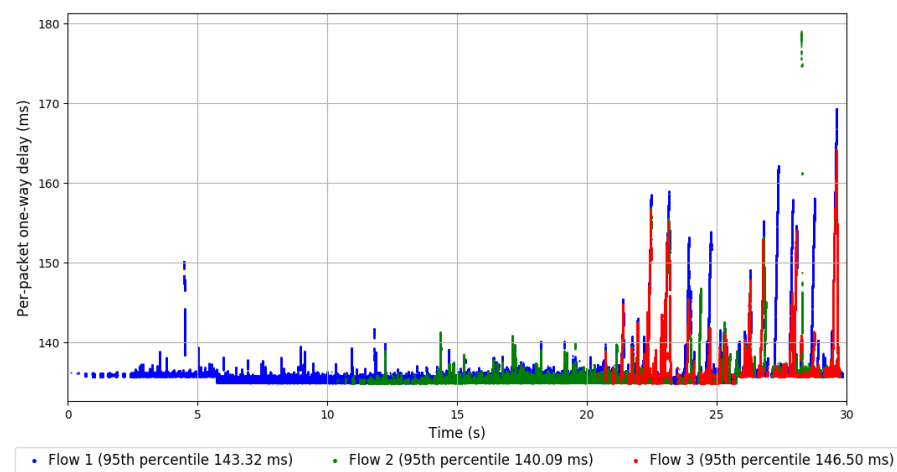
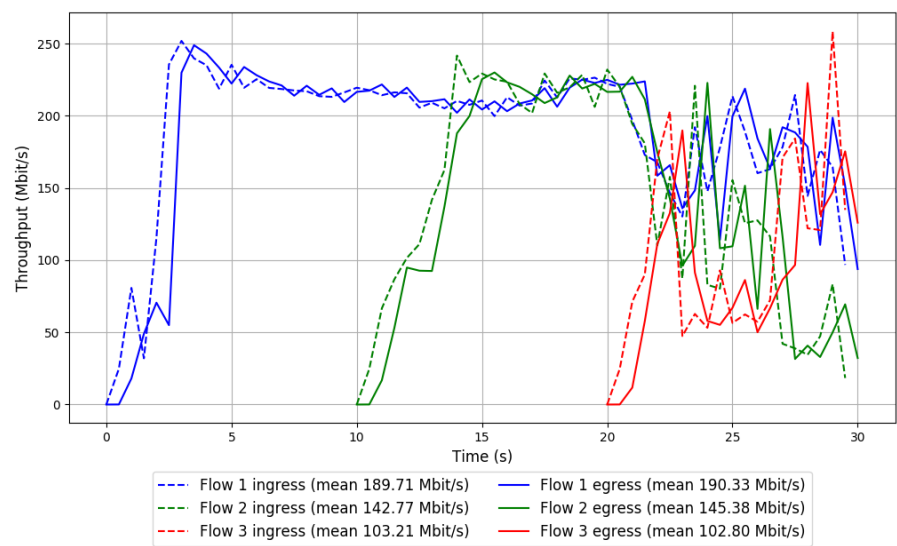


Run 5: Statistics of TaoVA-100x

Start at: 2018-06-01 00:06:59
End at: 2018-06-01 00:07:29
Local clock offset: -0.097 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-06-01 04:30:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 319.22 Mbit/s
95th percentile per-packet one-way delay: 142.787 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 190.33 Mbit/s
95th percentile per-packet one-way delay: 143.317 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 145.38 Mbit/s
95th percentile per-packet one-way delay: 140.088 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 102.80 Mbit/s
95th percentile per-packet one-way delay: 146.501 ms
Loss rate: 4.47%

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

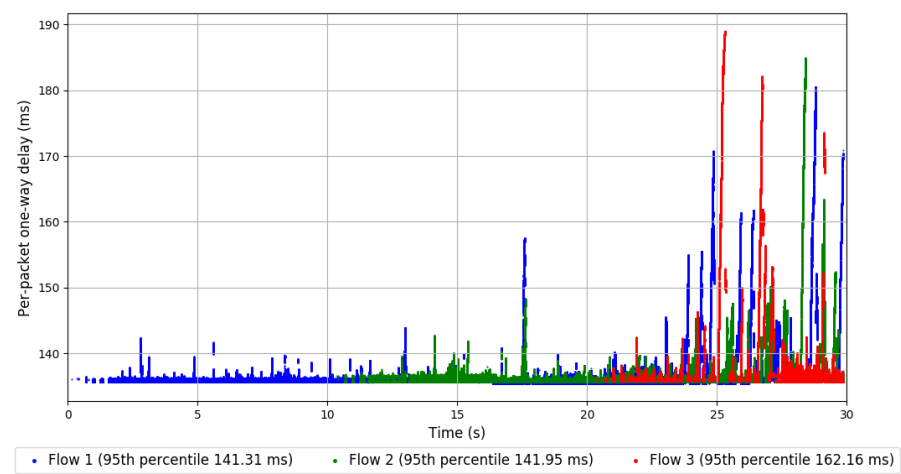
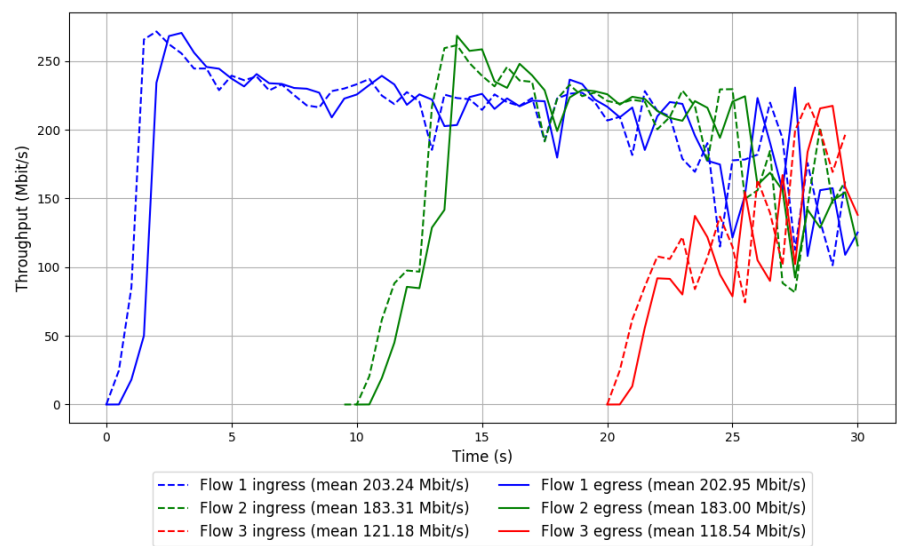


Run 6: Statistics of TaoVA-100x

Start at: 2018-06-01 00:32:08
End at: 2018-06-01 00:32:38
Local clock offset: -0.006 ms
Remote clock offset: -0.017 ms

Below is generated by plot.py at 2018-06-01 04:31:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 363.02 Mbit/s
95th percentile per-packet one-way delay: 143.614 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 202.95 Mbit/s
95th percentile per-packet one-way delay: 141.306 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 183.00 Mbit/s
95th percentile per-packet one-way delay: 141.953 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 118.54 Mbit/s
95th percentile per-packet one-way delay: 162.159 ms
Loss rate: 4.84%

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

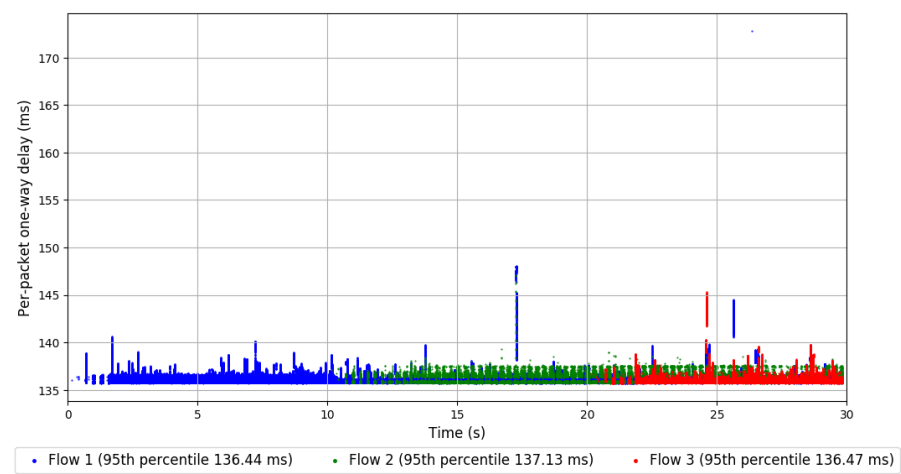
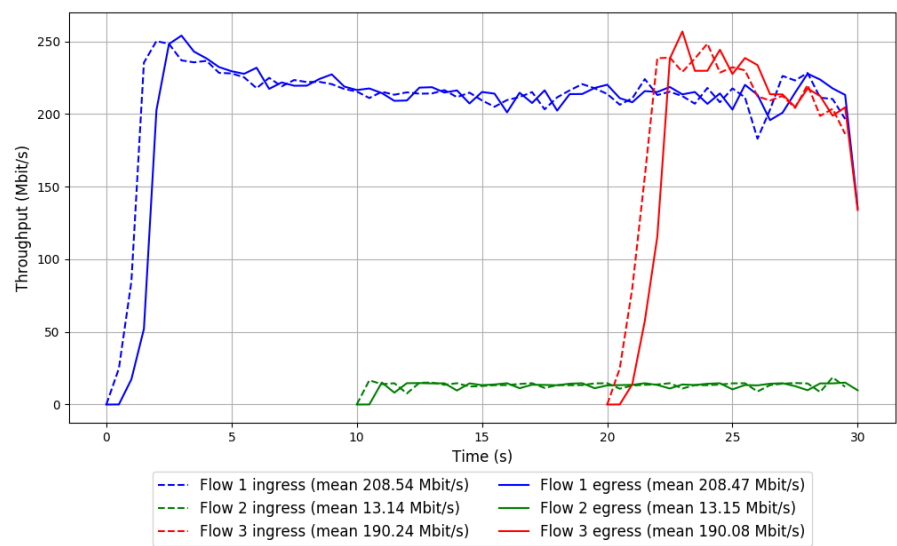


Run 7: Statistics of TaoVA-100x

Start at: 2018-06-01 00:57:44
End at: 2018-06-01 00:58:14
Local clock offset: 0.236 ms
Remote clock offset: -0.016 ms

Below is generated by plot.py at 2018-06-01 04:31:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 279.20 Mbit/s
95th percentile per-packet one-way delay: 136.470 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 208.47 Mbit/s
95th percentile per-packet one-way delay: 136.438 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 13.15 Mbit/s
95th percentile per-packet one-way delay: 137.135 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 190.08 Mbit/s
95th percentile per-packet one-way delay: 136.471 ms
Loss rate: 2.83%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-06-01 01:22:51

End at: 2018-06-01 01:23:21

Local clock offset: -0.39 ms

Remote clock offset: 0.029 ms

Below is generated by plot.py at 2018-06-01 04:31:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 320.36 Mbit/s

95th percentile per-packet one-way delay: 136.210 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 181.63 Mbit/s

95th percentile per-packet one-way delay: 135.989 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 202.91 Mbit/s

95th percentile per-packet one-way delay: 136.770 ms

Loss rate: 1.58%

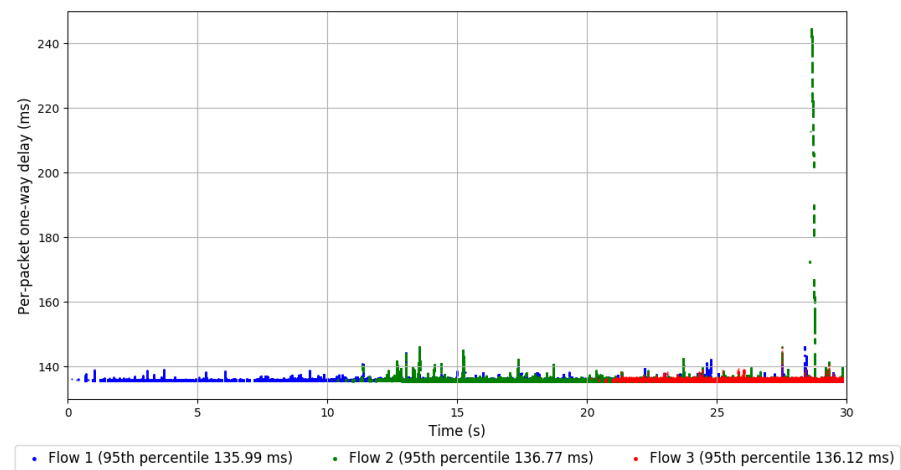
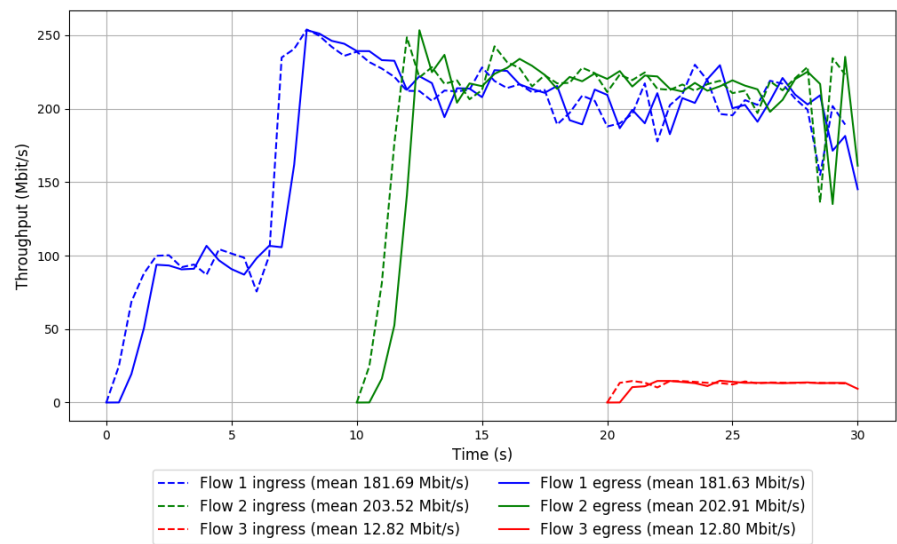
-- Flow 3:

Average throughput: 12.80 Mbit/s

95th percentile per-packet one-way delay: 136.123 ms

Loss rate: 2.86%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-06-01 01:47:53

End at: 2018-06-01 01:48:23

Local clock offset: -0.109 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-06-01 04:40:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 355.41 Mbit/s

95th percentile per-packet one-way delay: 136.091 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 210.84 Mbit/s

95th percentile per-packet one-way delay: 136.012 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 211.72 Mbit/s

95th percentile per-packet one-way delay: 136.234 ms

Loss rate: 1.60%

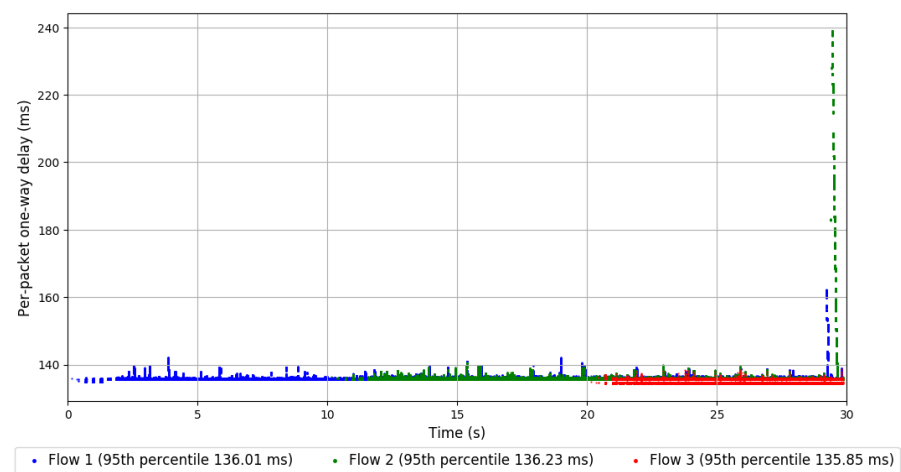
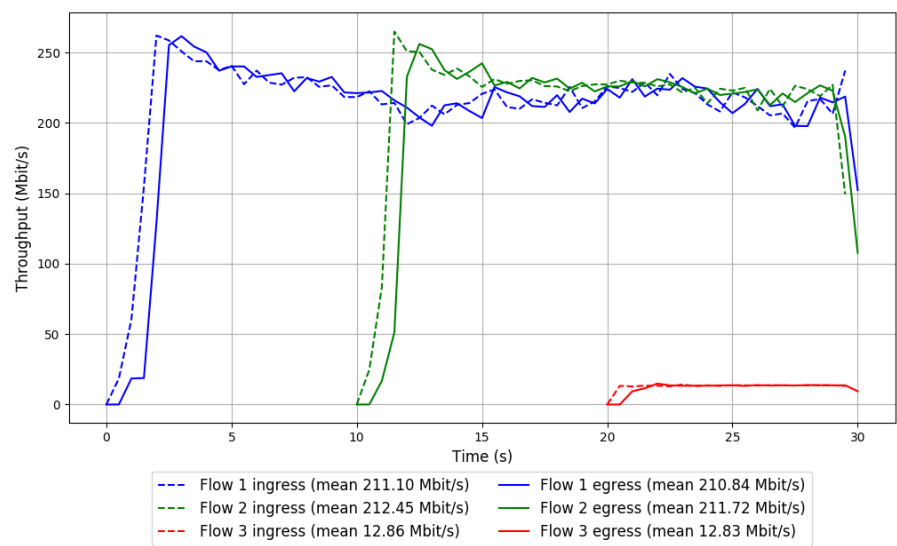
-- Flow 3:

Average throughput: 12.83 Mbit/s

95th percentile per-packet one-way delay: 135.854 ms

Loss rate: 2.90%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-06-01 02:13:09

End at: 2018-06-01 02:13:39

Local clock offset: 0.091 ms

Remote clock offset: 0.378 ms

Below is generated by plot.py at 2018-06-01 04:40:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 340.31 Mbit/s

95th percentile per-packet one-way delay: 138.476 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 178.00 Mbit/s

95th percentile per-packet one-way delay: 137.636 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 178.38 Mbit/s

95th percentile per-packet one-way delay: 140.114 ms

Loss rate: 0.72%

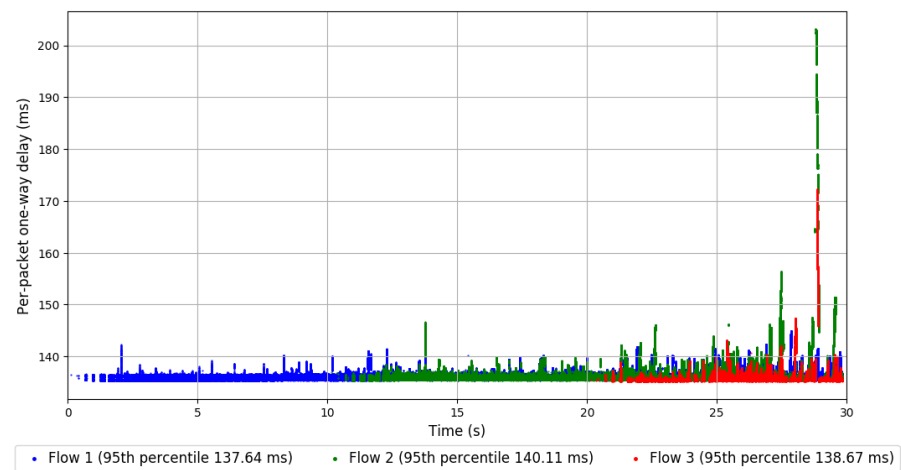
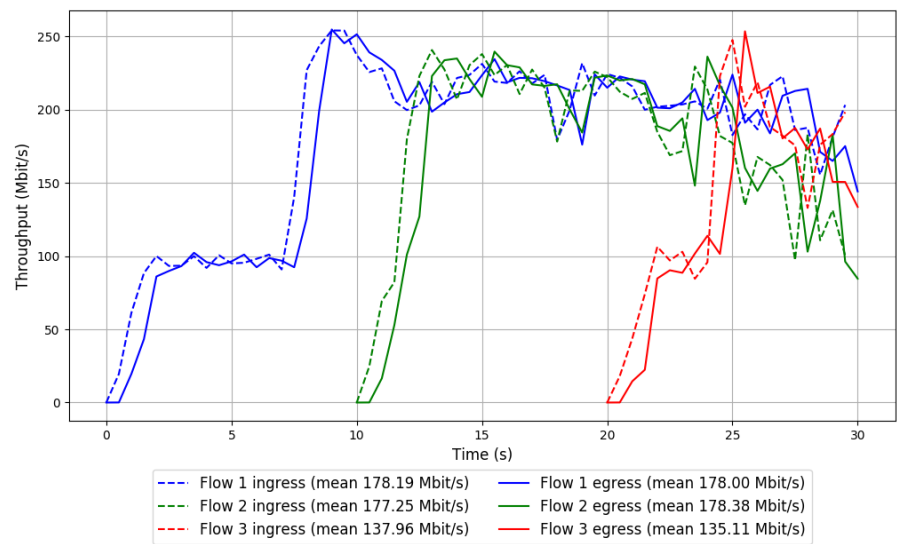
-- Flow 3:

Average throughput: 135.11 Mbit/s

95th percentile per-packet one-way delay: 138.672 ms

Loss rate: 4.70%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-05-31 22:40:30

End at: 2018-05-31 22:41:00

Local clock offset: -0.499 ms

Remote clock offset: 0.097 ms

Below is generated by plot.py at 2018-06-01 04:40:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 159.51 Mbit/s

95th percentile per-packet one-way delay: 145.172 ms

Loss rate: 1.55%

-- Flow 1:

Average throughput: 83.02 Mbit/s

95th percentile per-packet one-way delay: 144.664 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 79.99 Mbit/s

95th percentile per-packet one-way delay: 145.974 ms

Loss rate: 1.61%

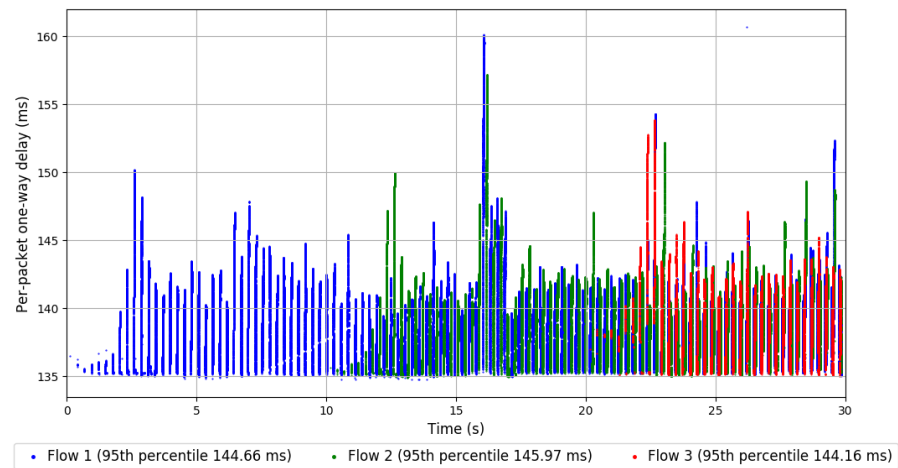
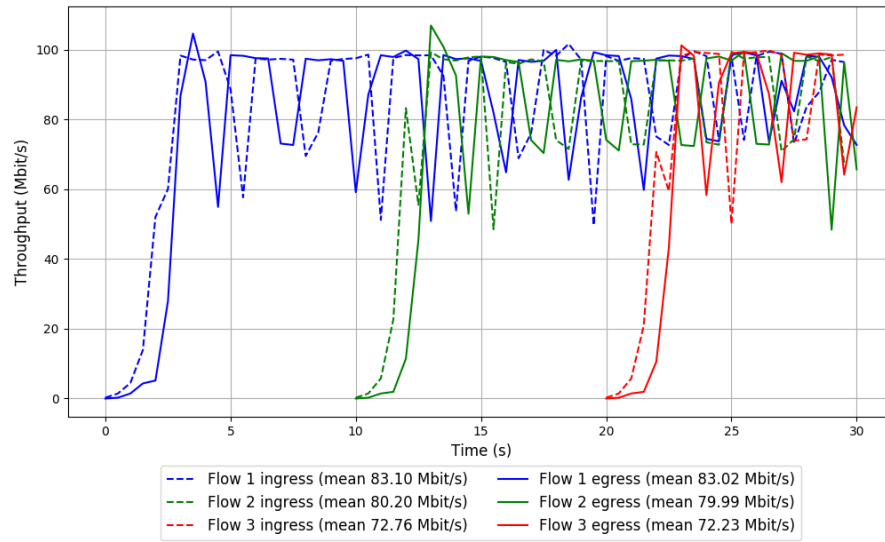
-- Flow 3:

Average throughput: 72.23 Mbit/s

95th percentile per-packet one-way delay: 144.165 ms

Loss rate: 3.41%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-05-31 23:06:03

End at: 2018-05-31 23:06:33

Local clock offset: -0.132 ms

Remote clock offset: 0.142 ms

Below is generated by plot.py at 2018-06-01 04:40:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 113.43 Mbit/s

95th percentile per-packet one-way delay: 142.814 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 84.66 Mbit/s

95th percentile per-packet one-way delay: 142.933 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 43.57 Mbit/s

95th percentile per-packet one-way delay: 141.751 ms

Loss rate: 1.55%

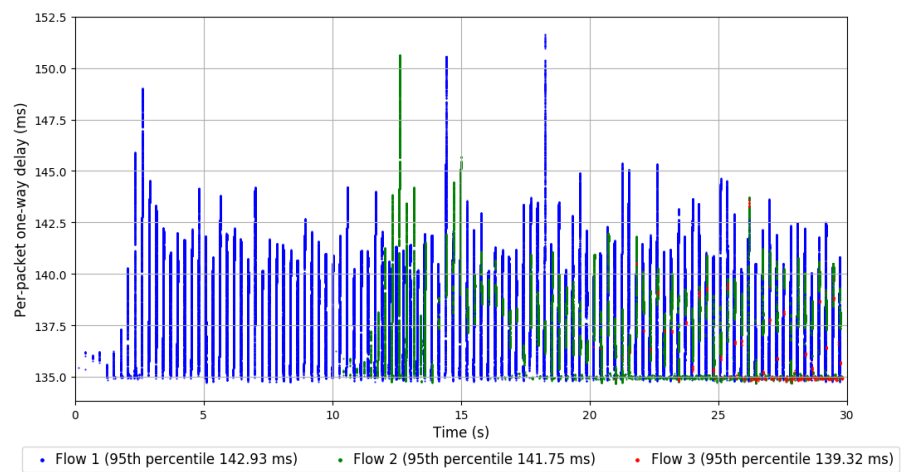
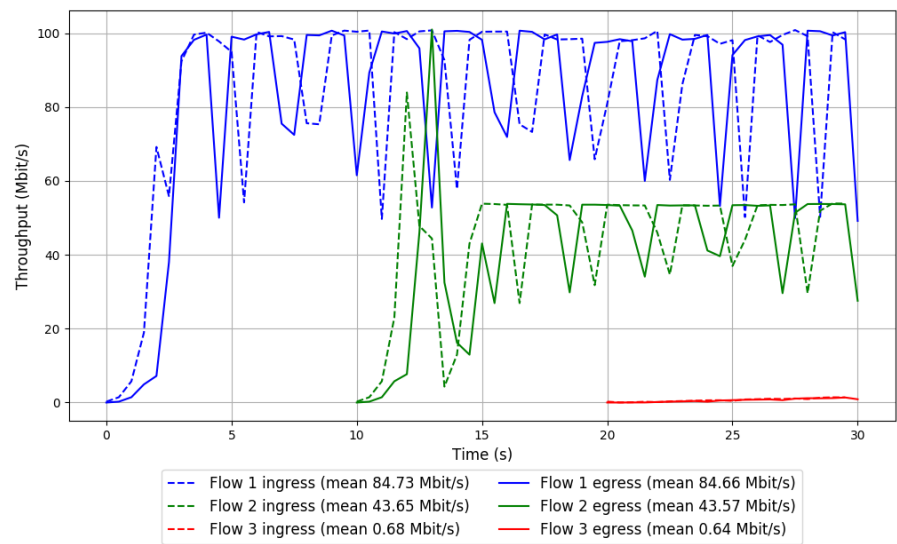
-- Flow 3:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 139.321 ms

Loss rate: 7.65%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-05-31 23:31:26

End at: 2018-05-31 23:31:56

Local clock offset: -0.083 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-06-01 04:40:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 143.56 Mbit/s

95th percentile per-packet one-way delay: 148.043 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 83.67 Mbit/s

95th percentile per-packet one-way delay: 146.009 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 79.42 Mbit/s

95th percentile per-packet one-way delay: 148.973 ms

Loss rate: 1.54%

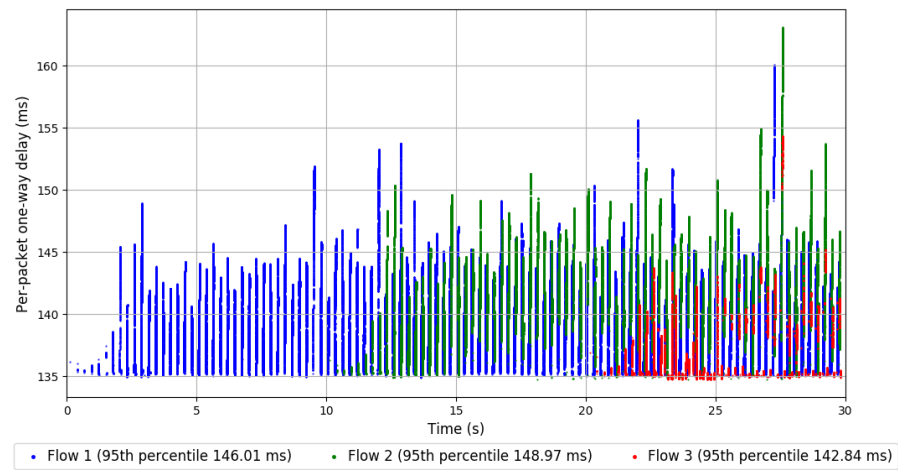
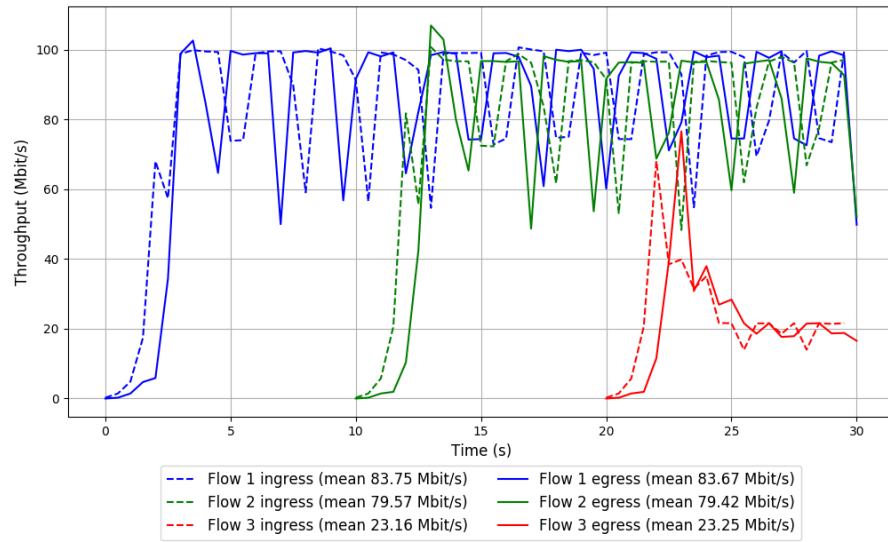
-- Flow 3:

Average throughput: 23.25 Mbit/s

95th percentile per-packet one-way delay: 142.839 ms

Loss rate: 2.35%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-05-31 23:56:56

End at: 2018-05-31 23:57:26

Local clock offset: -0.217 ms

Remote clock offset: 0.296 ms

Below is generated by plot.py at 2018-06-01 04:40:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 147.40 Mbit/s

95th percentile per-packet one-way delay: 144.346 ms

Loss rate: 1.34%

-- Flow 1:

Average throughput: 83.31 Mbit/s

95th percentile per-packet one-way delay: 144.113 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 80.76 Mbit/s

95th percentile per-packet one-way delay: 144.754 ms

Loss rate: 1.53%

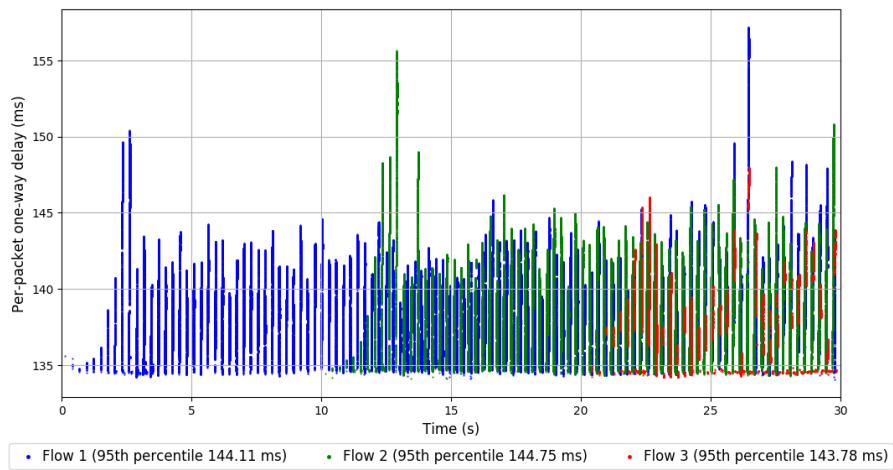
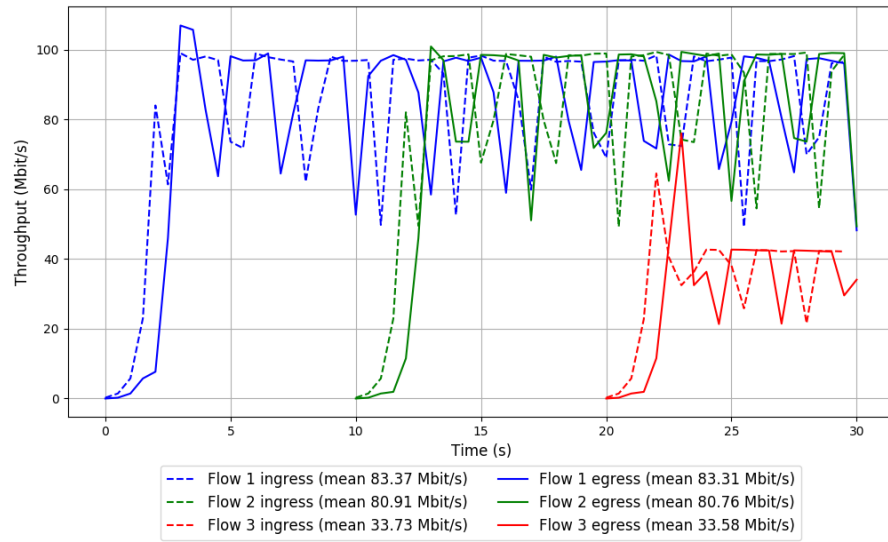
-- Flow 3:

Average throughput: 33.58 Mbit/s

95th percentile per-packet one-way delay: 143.775 ms

Loss rate: 3.15%

Run 4: Report of TCP Vegas — Data Link

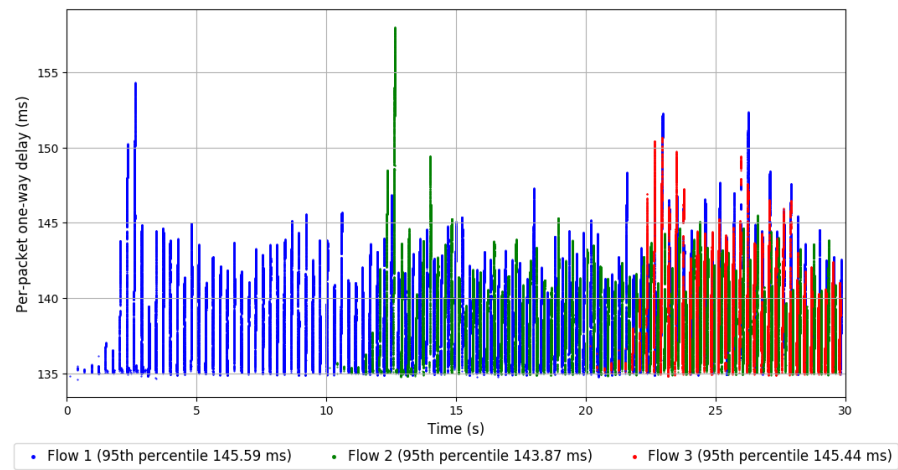
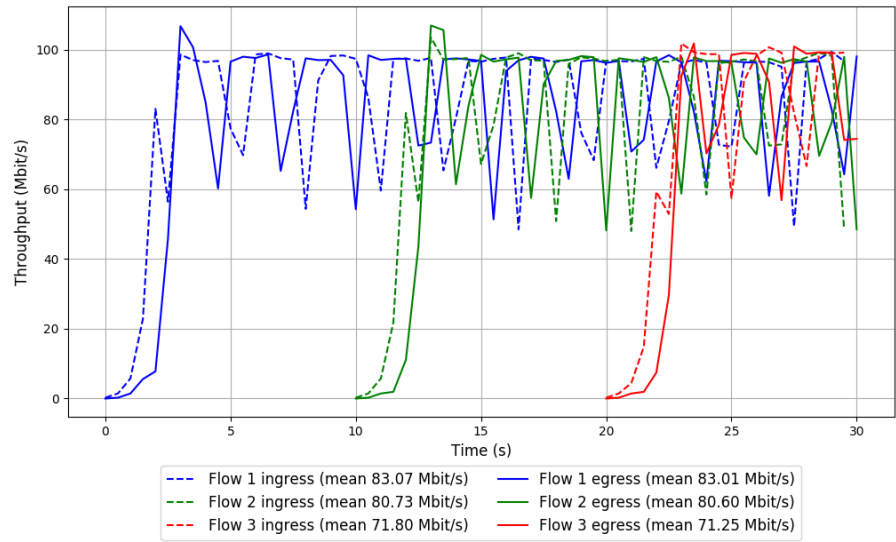


Run 5: Statistics of TCP Vegas

Start at: 2018-06-01 00:22:05
End at: 2018-06-01 00:22:35
Local clock offset: -0.16 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-06-01 04:40:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 159.02 Mbit/s
95th percentile per-packet one-way delay: 145.010 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 83.01 Mbit/s
95th percentile per-packet one-way delay: 145.593 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 80.60 Mbit/s
95th percentile per-packet one-way delay: 143.874 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 71.25 Mbit/s
95th percentile per-packet one-way delay: 145.436 ms
Loss rate: 3.48%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-06-01 00:47:39

End at: 2018-06-01 00:48:09

Local clock offset: 0.294 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-06-01 04:40:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 133.25 Mbit/s

95th percentile per-packet one-way delay: 146.098 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 83.83 Mbit/s

95th percentile per-packet one-way delay: 146.954 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 59.35 Mbit/s

95th percentile per-packet one-way delay: 143.659 ms

Loss rate: 1.52%

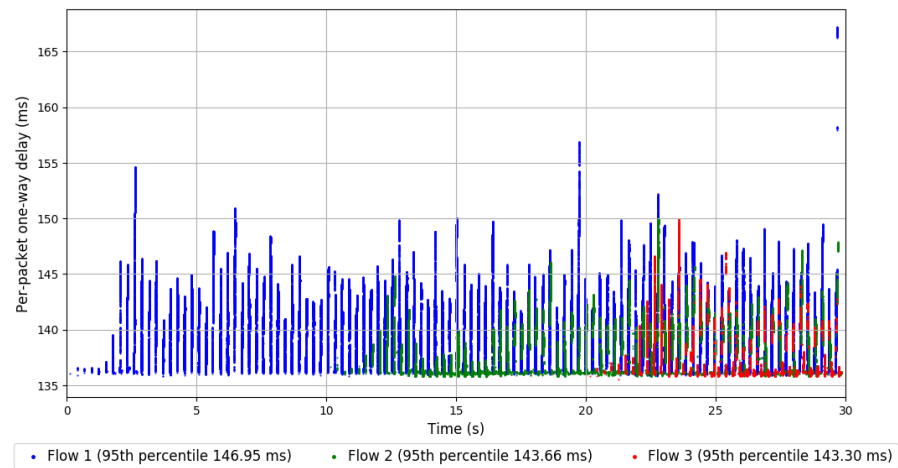
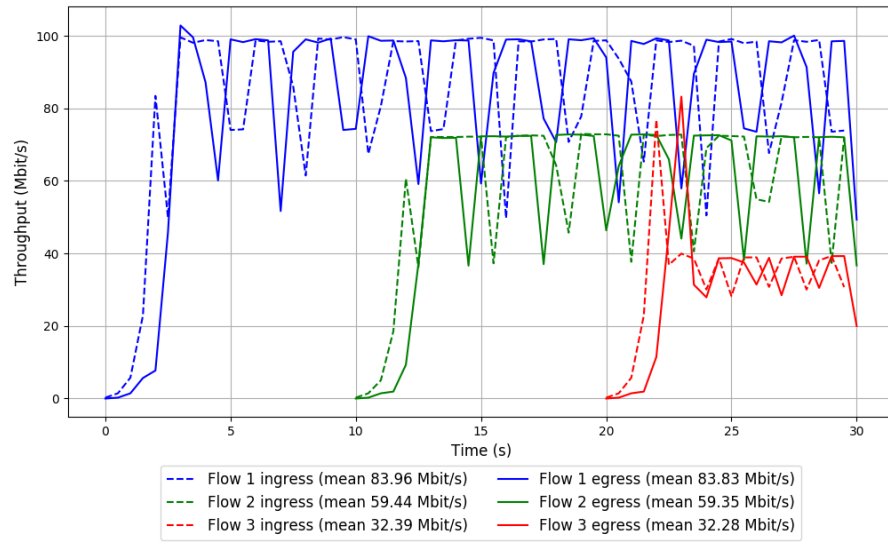
-- Flow 3:

Average throughput: 32.28 Mbit/s

95th percentile per-packet one-way delay: 143.301 ms

Loss rate: 3.07%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-06-01 01:12:52

End at: 2018-06-01 01:13:22

Local clock offset: 0.093 ms

Remote clock offset: -0.32 ms

Below is generated by plot.py at 2018-06-01 04:40:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.46 Mbit/s

95th percentile per-packet one-way delay: 143.676 ms

Loss rate: 1.75%

-- Flow 1:

Average throughput: 42.57 Mbit/s

95th percentile per-packet one-way delay: 139.015 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 28.24 Mbit/s

95th percentile per-packet one-way delay: 139.038 ms

Loss rate: 1.49%

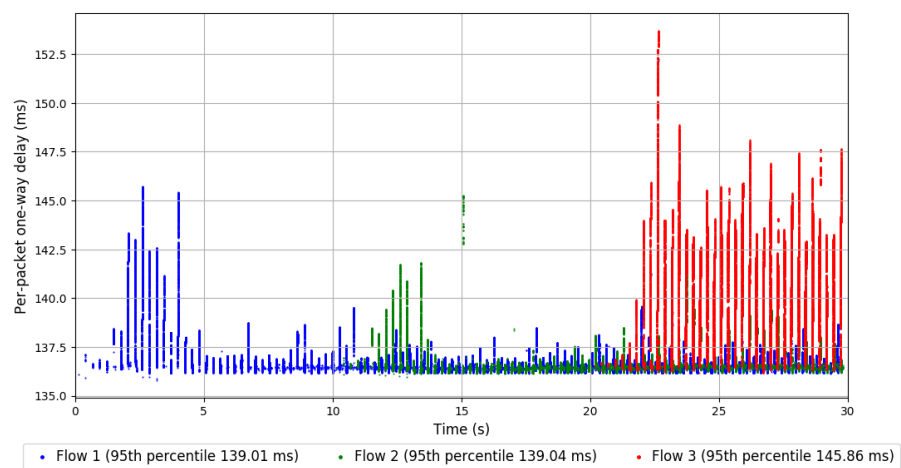
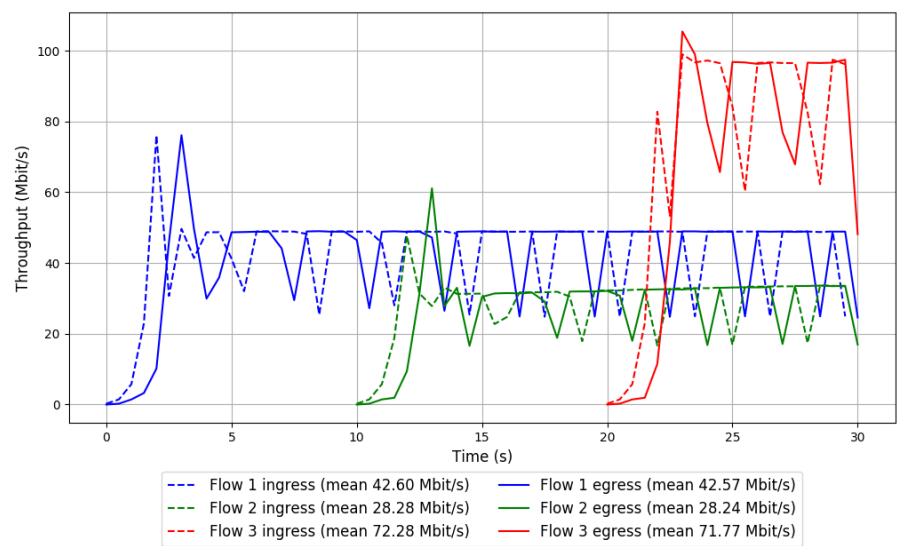
-- Flow 3:

Average throughput: 71.77 Mbit/s

95th percentile per-packet one-way delay: 145.861 ms

Loss rate: 3.37%

Run 7: Report of TCP Vegas — Data Link

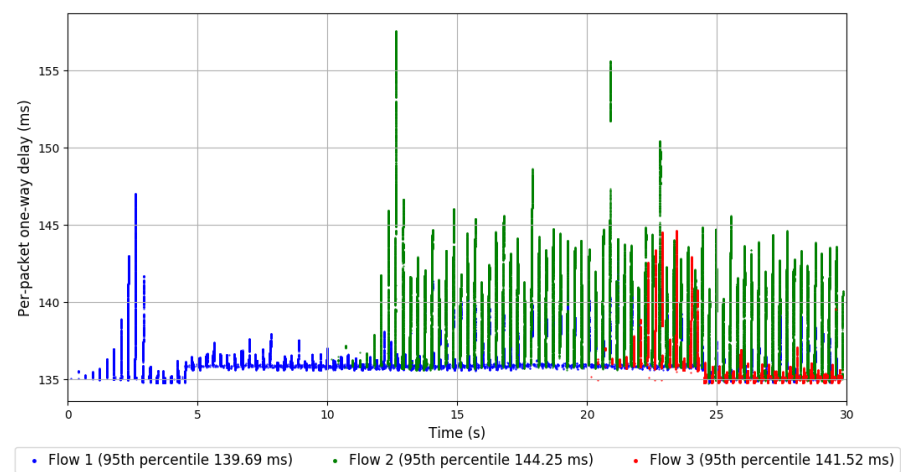
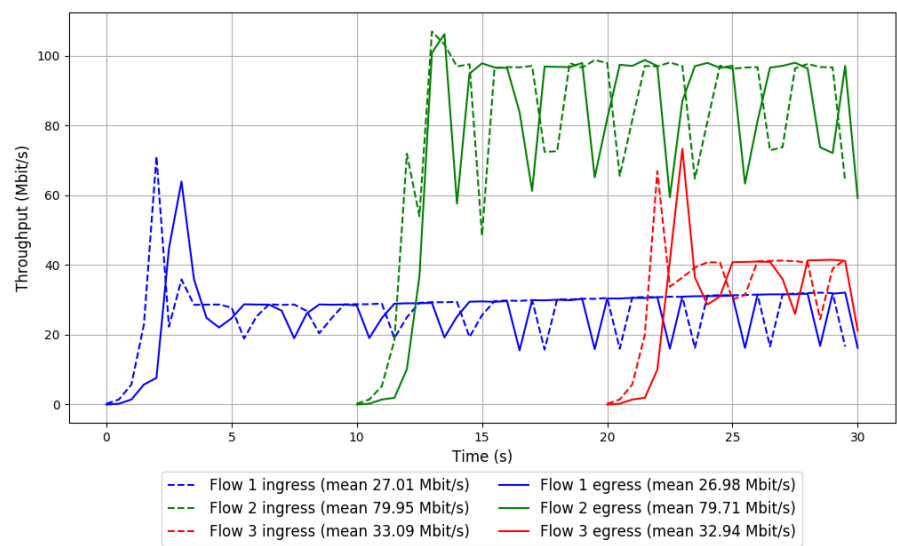


Run 8: Statistics of TCP Vegas

Start at: 2018-06-01 01:38:00
End at: 2018-06-01 01:38:30
Local clock offset: -0.242 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-06-01 04:40:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.52 Mbit/s
95th percentile per-packet one-way delay: 143.570 ms
Loss rate: 1.64%
-- Flow 1:
Average throughput: 26.98 Mbit/s
95th percentile per-packet one-way delay: 139.685 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 79.71 Mbit/s
95th percentile per-packet one-way delay: 144.249 ms
Loss rate: 1.65%
-- Flow 3:
Average throughput: 32.94 Mbit/s
95th percentile per-packet one-way delay: 141.516 ms
Loss rate: 3.17%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-06-01 02:03:18

End at: 2018-06-01 02:03:48

Local clock offset: -0.131 ms

Remote clock offset: 0.013 ms

Below is generated by plot.py at 2018-06-01 04:40:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.82 Mbit/s

95th percentile per-packet one-way delay: 138.003 ms

Loss rate: 1.77%

-- Flow 1:

Average throughput: 29.24 Mbit/s

95th percentile per-packet one-way delay: 136.940 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 25.95 Mbit/s

95th percentile per-packet one-way delay: 137.668 ms

Loss rate: 1.48%

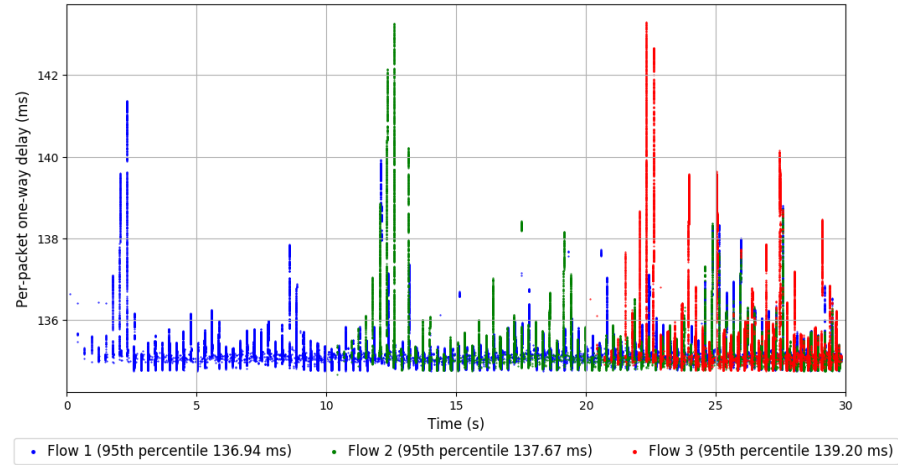
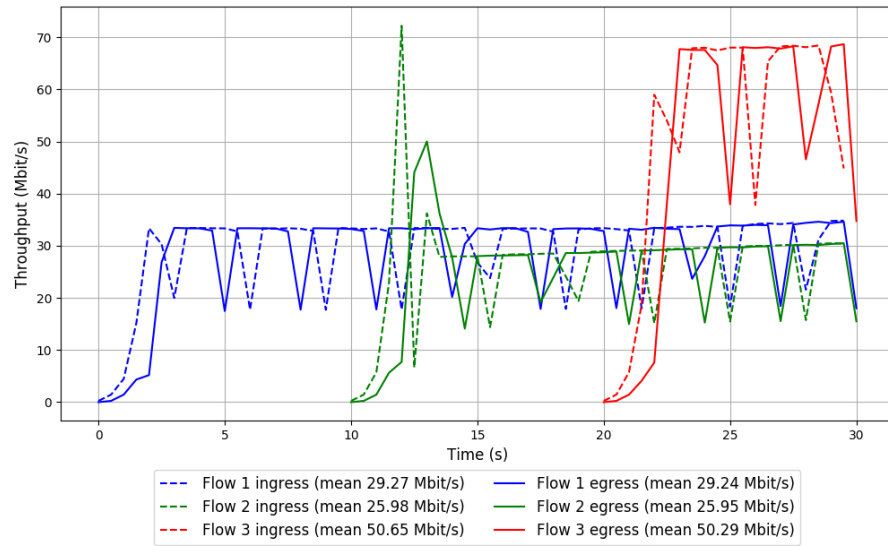
-- Flow 3:

Average throughput: 50.29 Mbit/s

95th percentile per-packet one-way delay: 139.198 ms

Loss rate: 3.42%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-06-01 02:28:32

End at: 2018-06-01 02:29:02

Local clock offset: -0.283 ms

Remote clock offset: 0.39 ms

Below is generated by plot.py at 2018-06-01 04:40:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 141.17 Mbit/s

95th percentile per-packet one-way delay: 144.960 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 82.91 Mbit/s

95th percentile per-packet one-way delay: 145.179 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 53.20 Mbit/s

95th percentile per-packet one-way delay: 142.864 ms

Loss rate: 1.54%

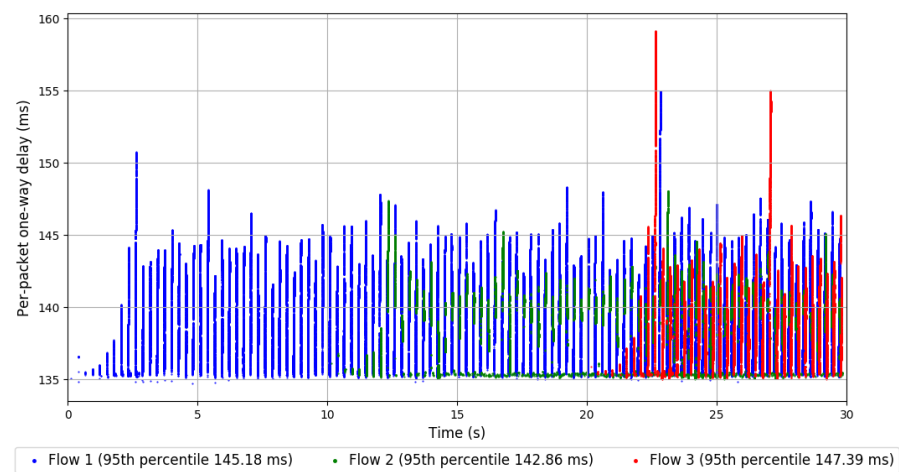
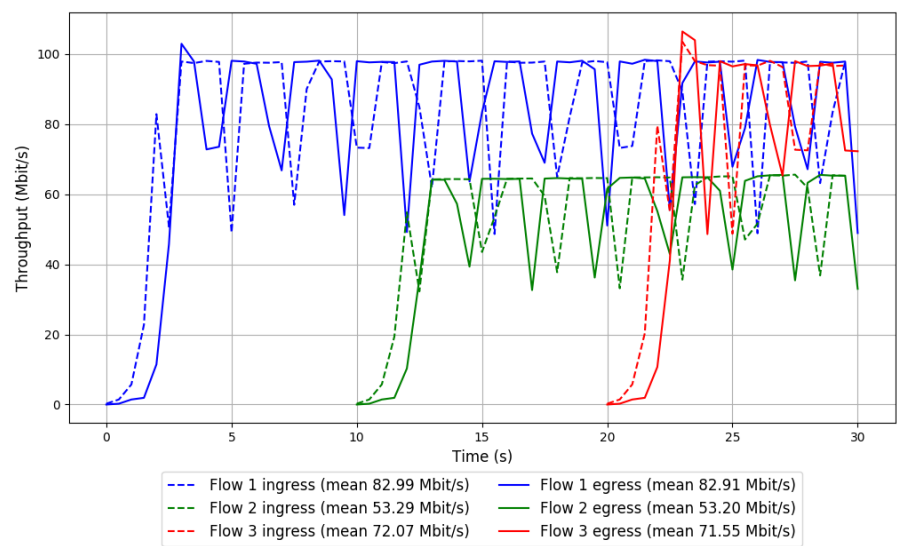
-- Flow 3:

Average throughput: 71.55 Mbit/s

95th percentile per-packet one-way delay: 147.390 ms

Loss rate: 3.40%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-05-31 22:35:16

End at: 2018-05-31 22:35:46

Local clock offset: -0.684 ms

Remote clock offset: 0.07 ms

Below is generated by plot.py at 2018-06-01 04:40:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 277.08 Mbit/s

95th percentile per-packet one-way delay: 238.339 ms

Loss rate: 1.64%

-- Flow 1:

Average throughput: 131.29 Mbit/s

95th percentile per-packet one-way delay: 242.718 ms

Loss rate: 1.29%

-- Flow 2:

Average throughput: 197.39 Mbit/s

95th percentile per-packet one-way delay: 237.420 ms

Loss rate: 1.93%

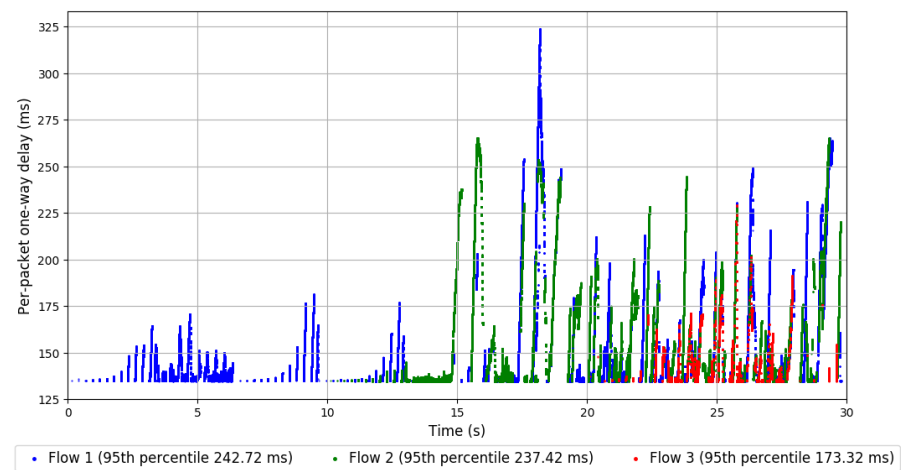
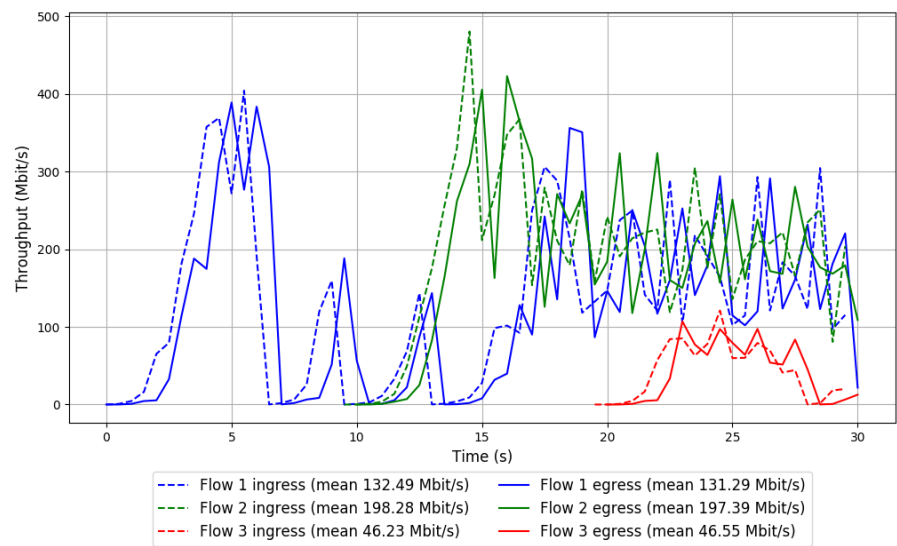
-- Flow 3:

Average throughput: 46.55 Mbit/s

95th percentile per-packet one-way delay: 173.325 ms

Loss rate: 2.22%

Run 1: Report of Verus — Data Link

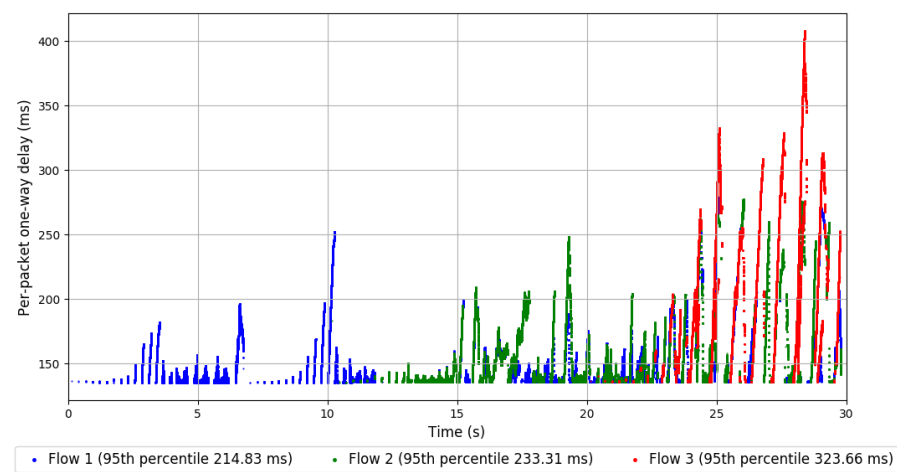
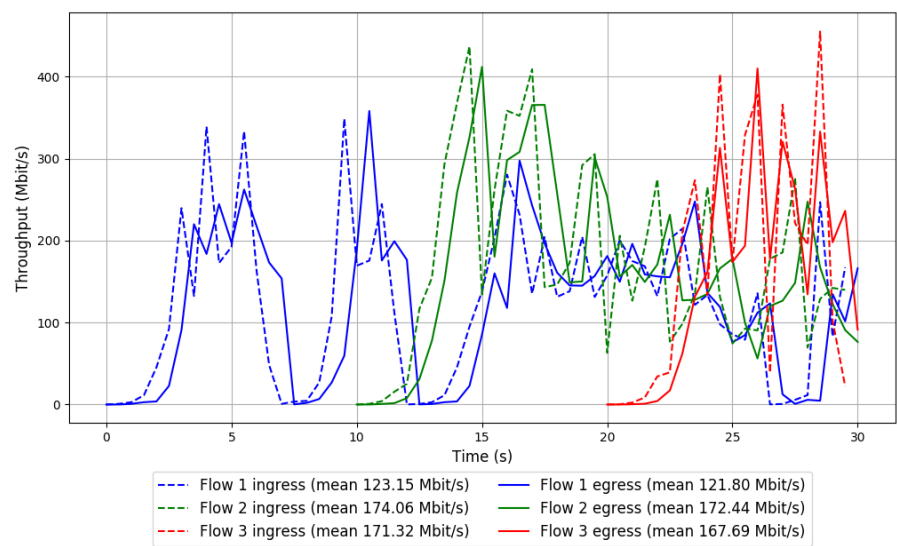


Run 2: Statistics of Verus

Start at: 2018-05-31 23:00:43
End at: 2018-05-31 23:01:13
Local clock offset: -0.199 ms
Remote clock offset: -0.273 ms

Below is generated by plot.py at 2018-06-01 04:40:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 290.16 Mbit/s
95th percentile per-packet one-way delay: 265.484 ms
Loss rate: 2.57%
-- Flow 1:
Average throughput: 121.80 Mbit/s
95th percentile per-packet one-way delay: 214.827 ms
Loss rate: 1.58%
-- Flow 2:
Average throughput: 172.44 Mbit/s
95th percentile per-packet one-way delay: 233.305 ms
Loss rate: 2.52%
-- Flow 3:
Average throughput: 167.69 Mbit/s
95th percentile per-packet one-way delay: 323.656 ms
Loss rate: 4.82%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-05-31 23:26:12

End at: 2018-05-31 23:26:42

Local clock offset: 0.096 ms

Remote clock offset: -0.32 ms

Below is generated by plot.py at 2018-06-01 04:40:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 225.91 Mbit/s

95th percentile per-packet one-way delay: 286.590 ms

Loss rate: 4.83%

-- Flow 1:

Average throughput: 157.87 Mbit/s

95th percentile per-packet one-way delay: 220.526 ms

Loss rate: 2.84%

-- Flow 2:

Average throughput: 85.88 Mbit/s

95th percentile per-packet one-way delay: 361.830 ms

Loss rate: 10.31%

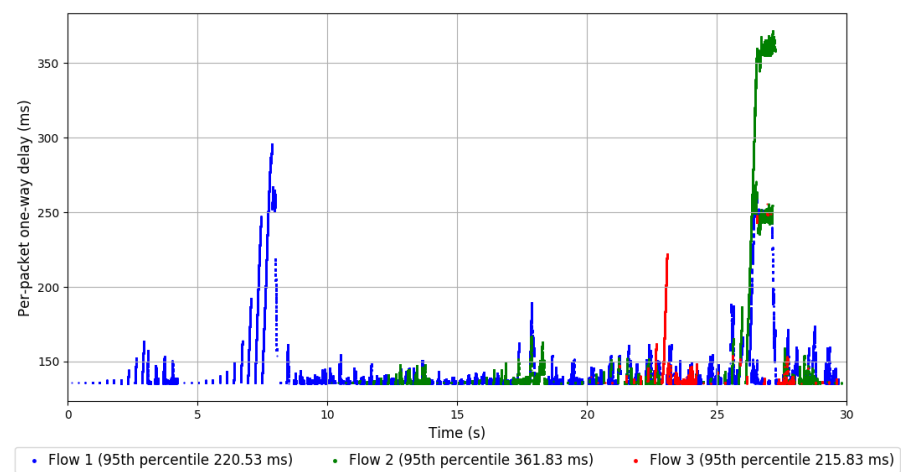
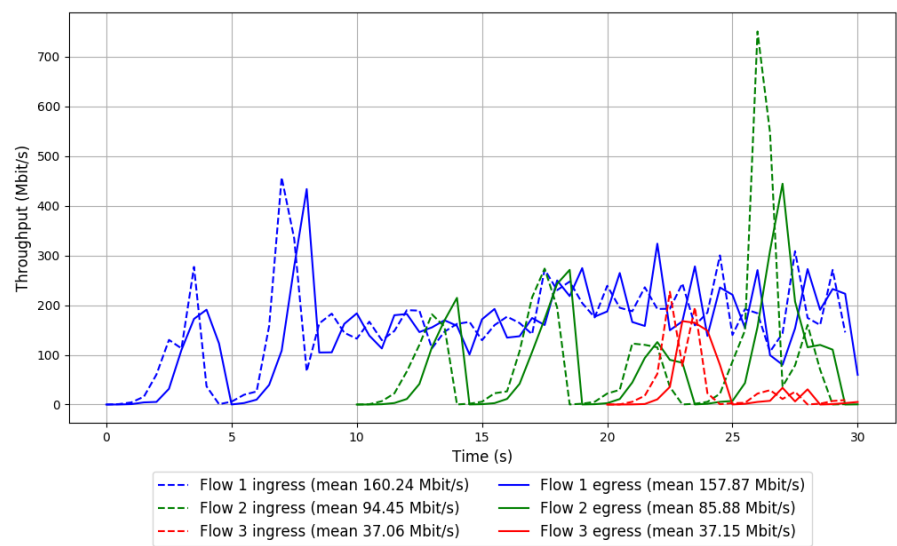
-- Flow 3:

Average throughput: 37.15 Mbit/s

95th percentile per-packet one-way delay: 215.834 ms

Loss rate: 2.60%

Run 3: Report of Verus — Data Link

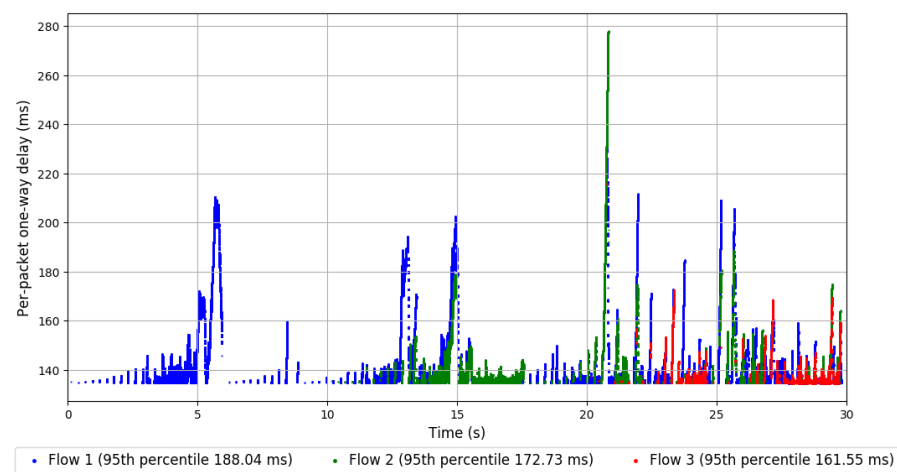
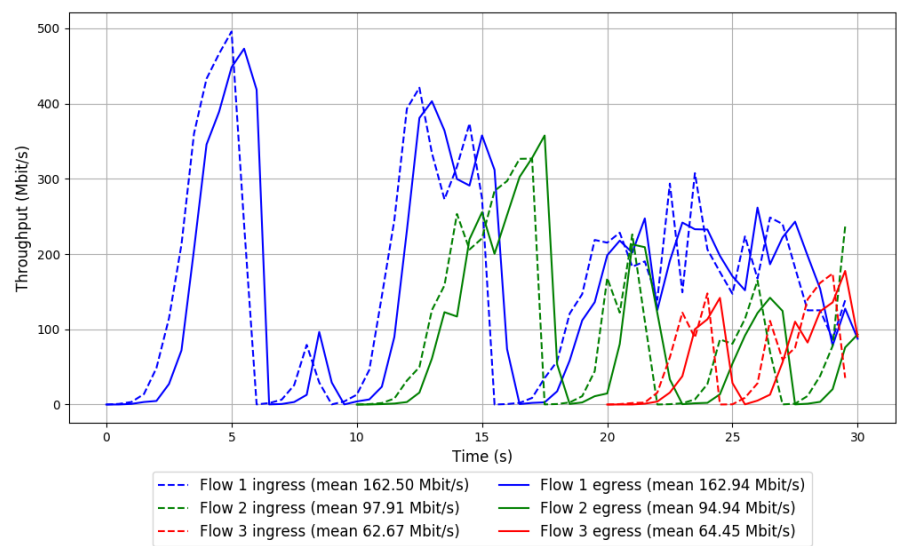


Run 4: Statistics of Verus

Start at: 2018-05-31 23:51:37
End at: 2018-05-31 23:52:07
Local clock offset: -0.292 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2018-06-01 04:40:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 246.57 Mbit/s
95th percentile per-packet one-way delay: 183.399 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 162.94 Mbit/s
95th percentile per-packet one-way delay: 188.045 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 94.94 Mbit/s
95th percentile per-packet one-way delay: 172.729 ms
Loss rate: 4.38%
-- Flow 3:
Average throughput: 64.45 Mbit/s
95th percentile per-packet one-way delay: 161.549 ms
Loss rate: 0.00%

Run 4: Report of Verus — Data Link

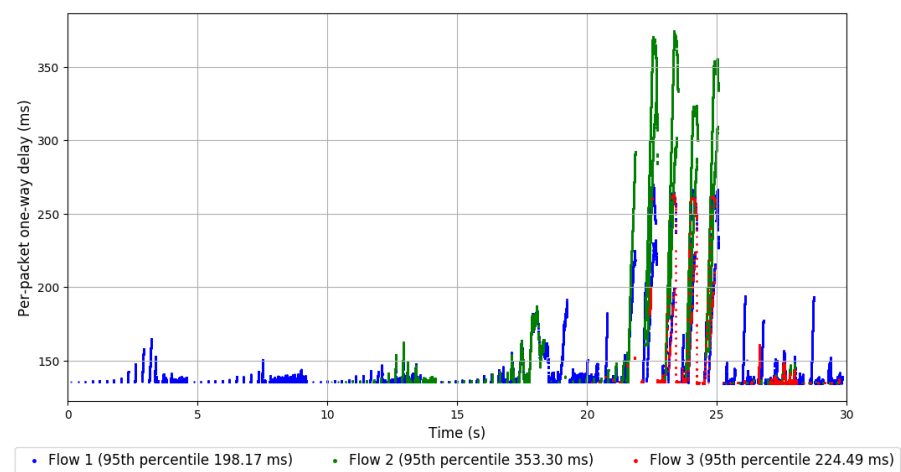
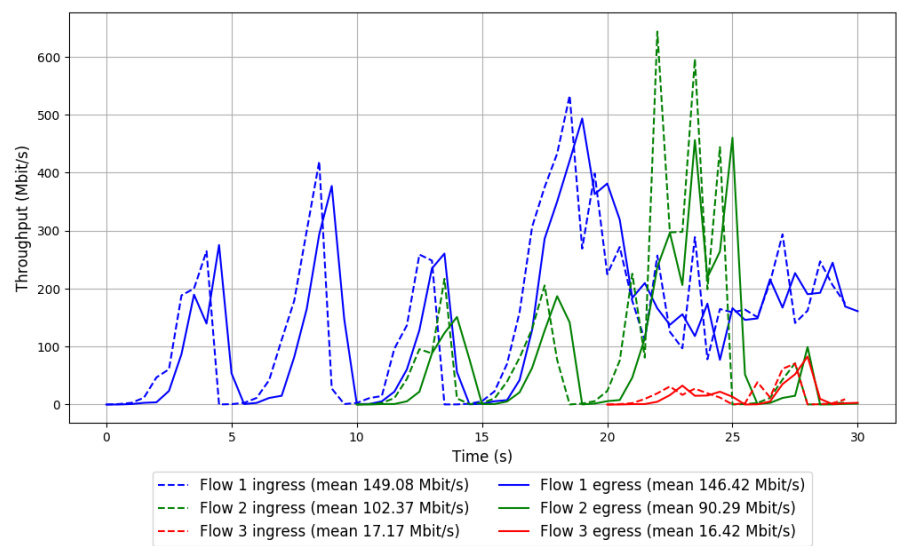


Run 5: Statistics of Verus

Start at: 2018-06-01 00:16:50
End at: 2018-06-01 00:17:20
Local clock offset: -0.329 ms
Remote clock offset: -0.039 ms

Below is generated by plot.py at 2018-06-01 04:40:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 210.96 Mbit/s
95th percentile per-packet one-way delay: 307.595 ms
Loss rate: 5.86%
-- Flow 1:
Average throughput: 146.42 Mbit/s
95th percentile per-packet one-way delay: 198.174 ms
Loss rate: 2.57%
-- Flow 2:
Average throughput: 90.29 Mbit/s
95th percentile per-packet one-way delay: 353.300 ms
Loss rate: 13.02%
-- Flow 3:
Average throughput: 16.42 Mbit/s
95th percentile per-packet one-way delay: 224.490 ms
Loss rate: 7.02%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-06-01 00:42:17

End at: 2018-06-01 00:42:47

Local clock offset: 0.12 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2018-06-01 04:41:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 318.66 Mbit/s

95th percentile per-packet one-way delay: 230.349 ms

Loss rate: 2.18%

-- Flow 1:

Average throughput: 197.13 Mbit/s

95th percentile per-packet one-way delay: 224.760 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 161.64 Mbit/s

95th percentile per-packet one-way delay: 240.940 ms

Loss rate: 4.33%

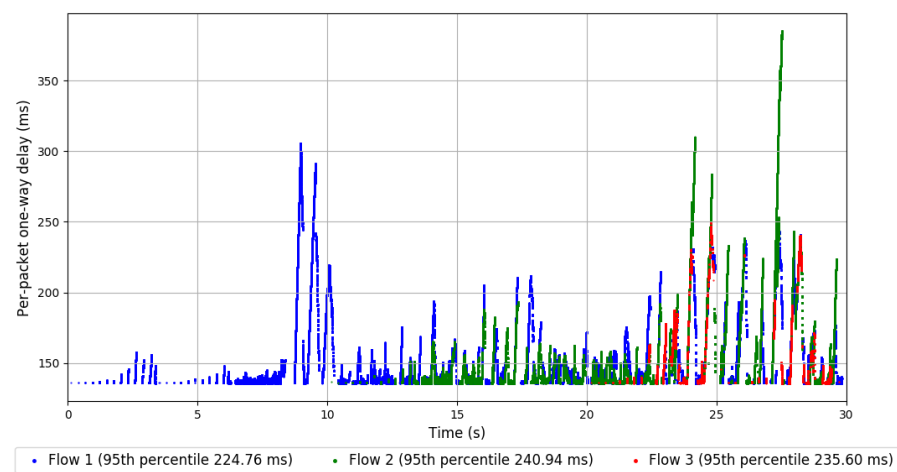
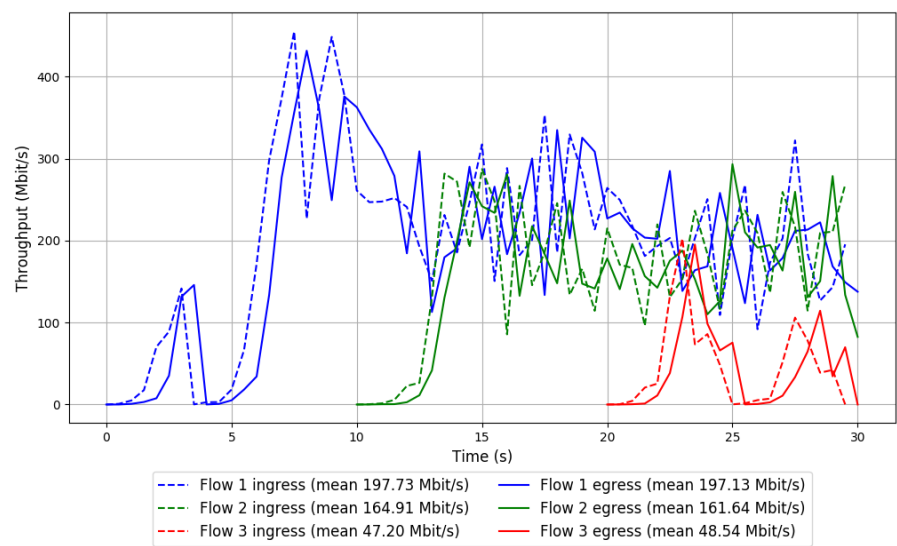
-- Flow 3:

Average throughput: 48.54 Mbit/s

95th percentile per-packet one-way delay: 235.603 ms

Loss rate: 0.02%

Run 6: Report of Verus — Data Link

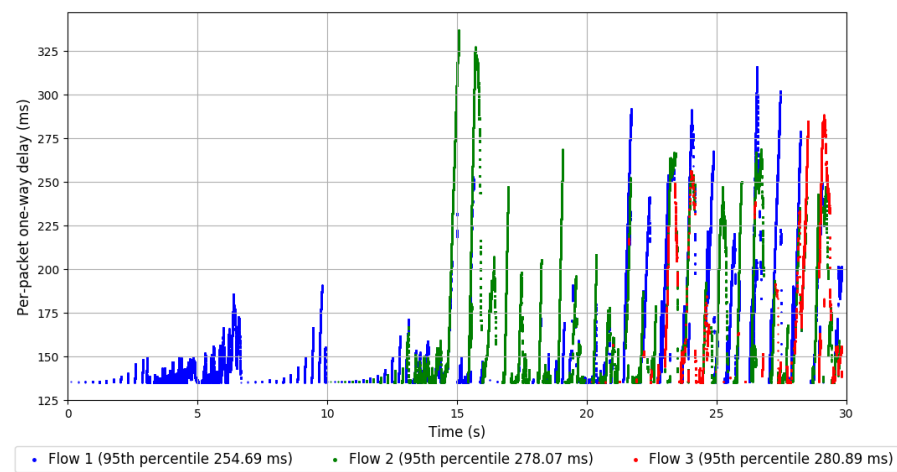
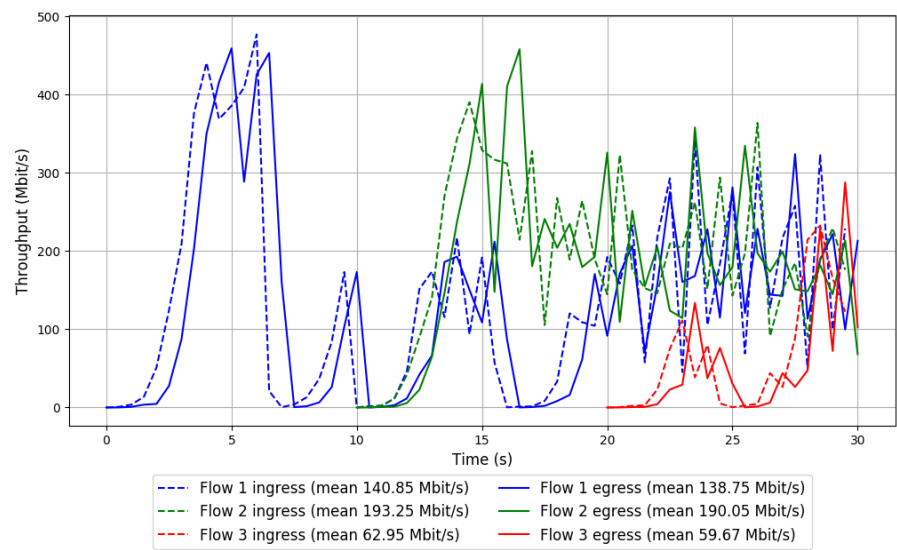


Run 7: Statistics of Verus

Start at: 2018-06-01 01:07:35
End at: 2018-06-01 01:08:05
Local clock offset: 0.159 ms
Remote clock offset: 0.443 ms

Below is generated by plot.py at 2018-06-01 04:43:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 283.54 Mbit/s
95th percentile per-packet one-way delay: 266.817 ms
Loss rate: 2.96%
-- Flow 1:
Average throughput: 138.75 Mbit/s
95th percentile per-packet one-way delay: 254.693 ms
Loss rate: 2.12%
-- Flow 2:
Average throughput: 190.05 Mbit/s
95th percentile per-packet one-way delay: 278.072 ms
Loss rate: 3.20%
-- Flow 3:
Average throughput: 59.67 Mbit/s
95th percentile per-packet one-way delay: 280.886 ms
Loss rate: 7.13%

Run 7: Report of Verus — Data Link

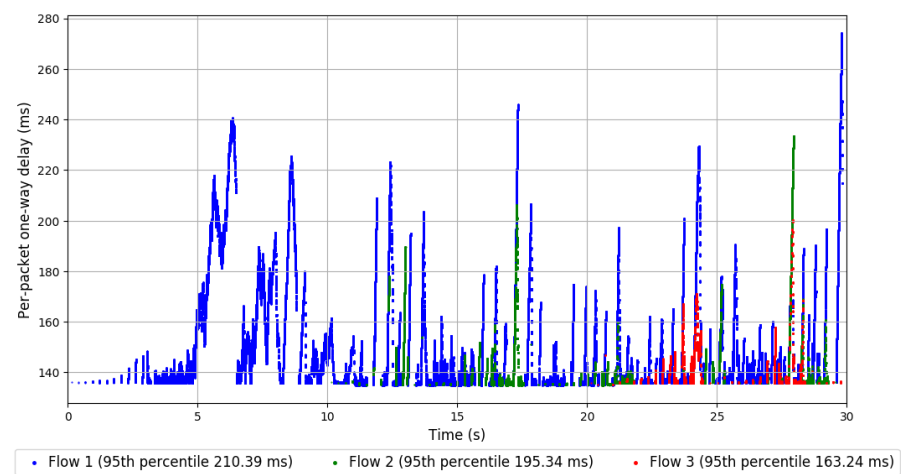
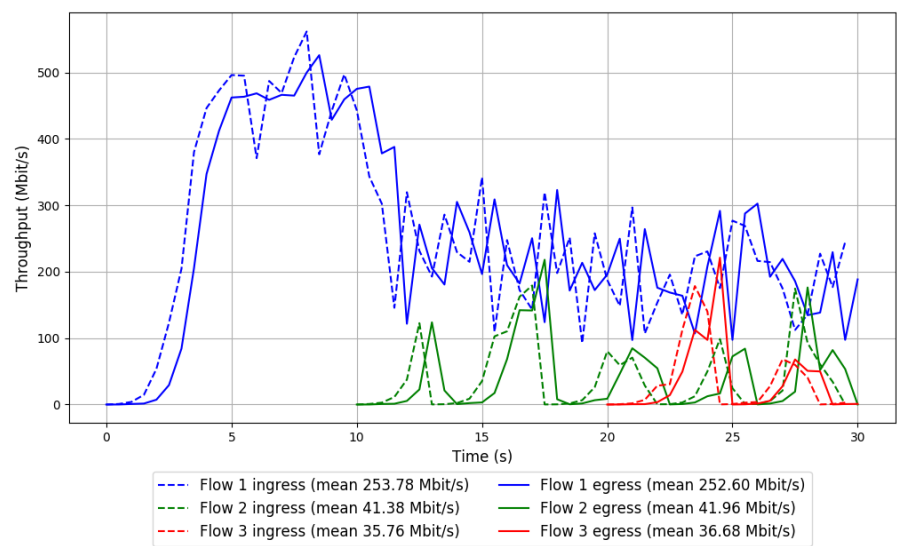


Run 8: Statistics of Verus

Start at: 2018-06-01 01:32:53
End at: 2018-06-01 01:33:23
Local clock offset: -0.049 ms
Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-06-01 04:43:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 291.92 Mbit/s
95th percentile per-packet one-way delay: 208.222 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 252.60 Mbit/s
95th percentile per-packet one-way delay: 210.394 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 41.96 Mbit/s
95th percentile per-packet one-way delay: 195.345 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 36.68 Mbit/s
95th percentile per-packet one-way delay: 163.237 ms
Loss rate: 0.27%

Run 8: Report of Verus — Data Link

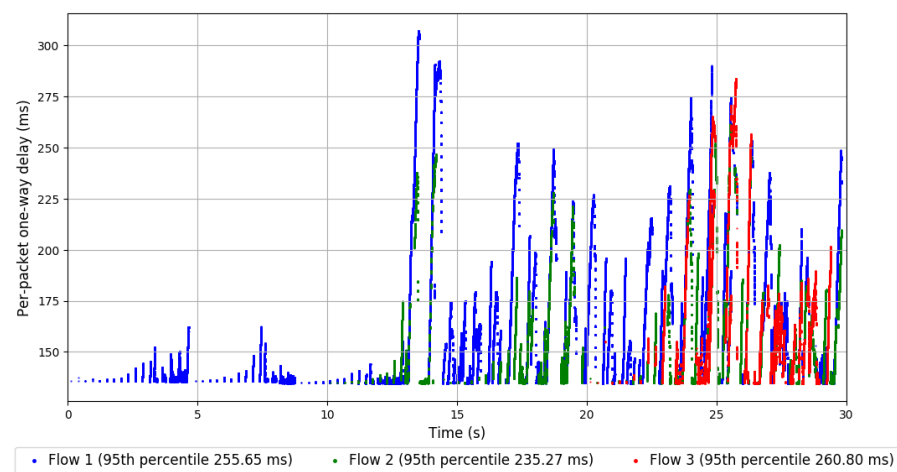
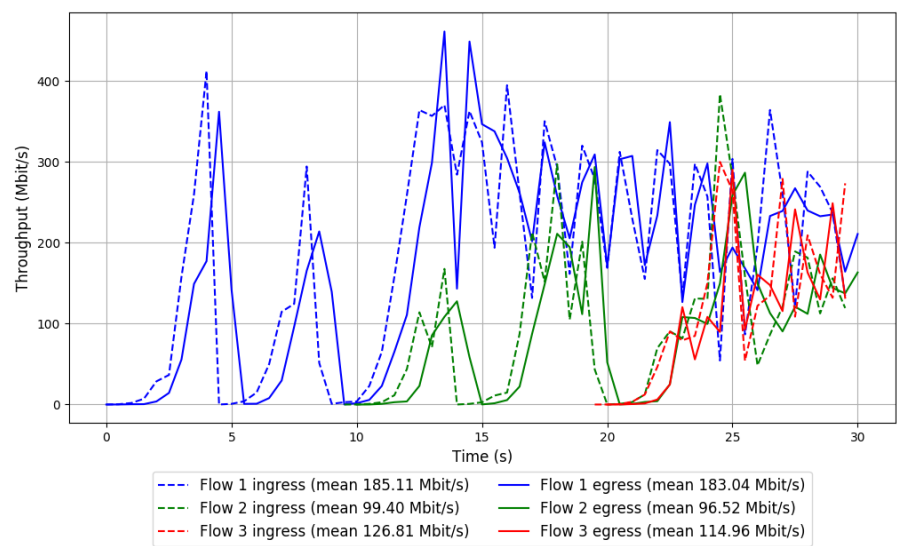


Run 9: Statistics of Verus

Start at: 2018-06-01 01:57:56
End at: 2018-06-01 01:58:26
Local clock offset: -0.278 ms
Remote clock offset: 0.026 ms

Below is generated by plot.py at 2018-06-01 04:43:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 282.96 Mbit/s
95th percentile per-packet one-way delay: 251.861 ms
Loss rate: 3.56%
-- Flow 1:
Average throughput: 183.04 Mbit/s
95th percentile per-packet one-way delay: 255.651 ms
Loss rate: 1.30%
-- Flow 2:
Average throughput: 96.52 Mbit/s
95th percentile per-packet one-way delay: 235.272 ms
Loss rate: 2.56%
-- Flow 3:
Average throughput: 114.96 Mbit/s
95th percentile per-packet one-way delay: 260.804 ms
Loss rate: 15.05%

Run 9: Report of Verus — Data Link

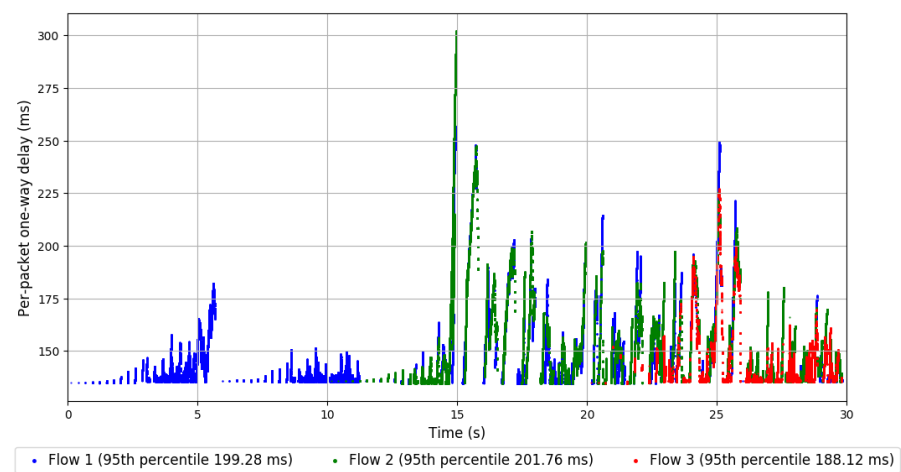
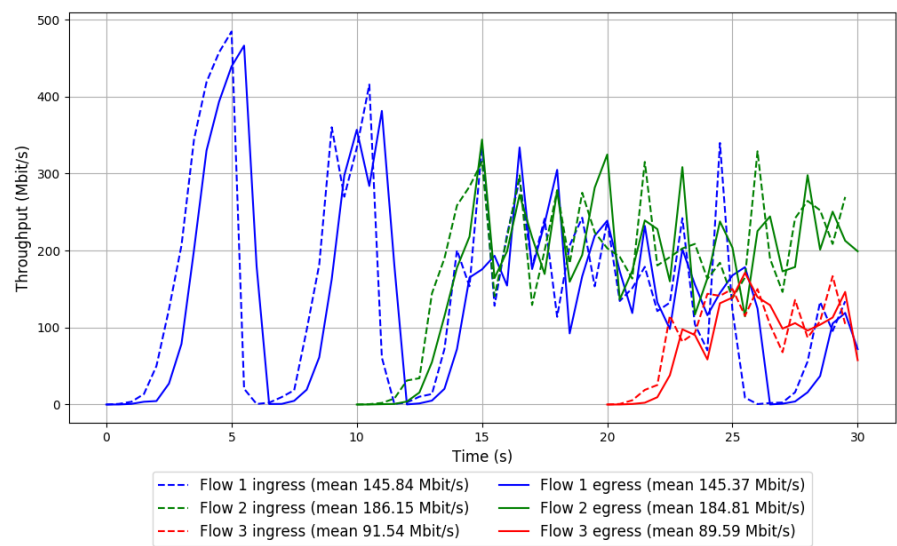


Run 10: Statistics of Verus

Start at: 2018-06-01 02:23:12
End at: 2018-06-01 02:23:42
Local clock offset: -0.264 ms
Remote clock offset: -0.017 ms

Below is generated by plot.py at 2018-06-01 04:44:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 296.77 Mbit/s
95th percentile per-packet one-way delay: 199.029 ms
Loss rate: 1.96%
-- Flow 1:
Average throughput: 145.37 Mbit/s
95th percentile per-packet one-way delay: 199.281 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 184.81 Mbit/s
95th percentile per-packet one-way delay: 201.762 ms
Loss rate: 2.23%
-- Flow 3:
Average throughput: 89.59 Mbit/s
95th percentile per-packet one-way delay: 188.117 ms
Loss rate: 4.80%

Run 10: Report of Verus — Data Link

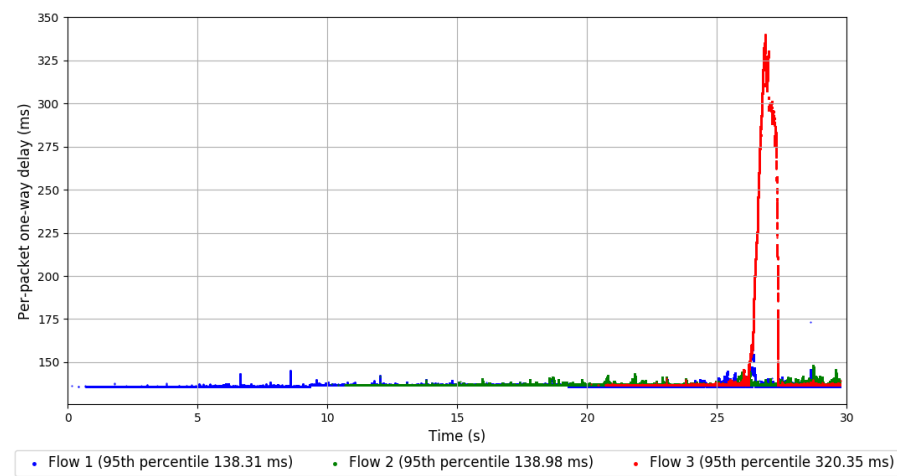
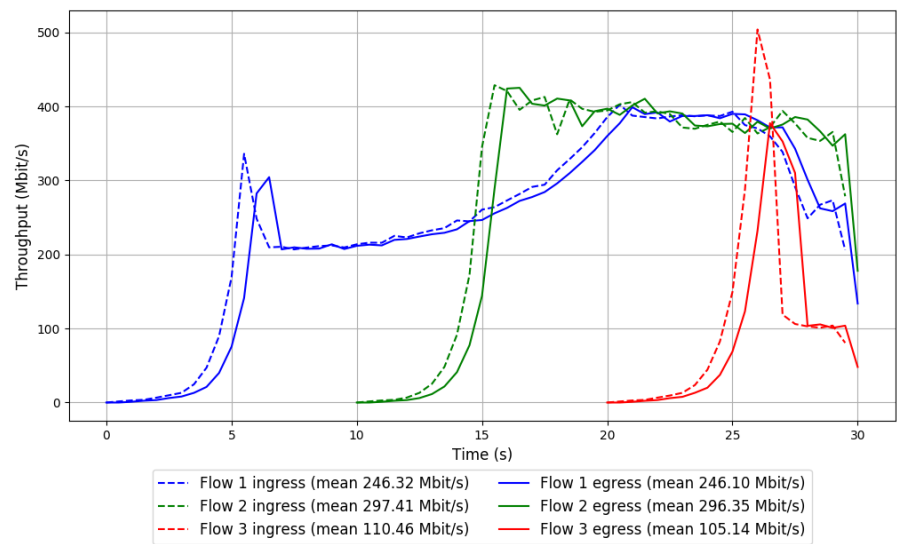


Run 1: Statistics of PCC-Vivace

Start at: 2018-05-31 22:38:35
End at: 2018-05-31 22:39:05
Local clock offset: -0.488 ms
Remote clock offset: -0.336 ms

Below is generated by plot.py at 2018-06-01 04:47:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 476.23 Mbit/s
95th percentile per-packet one-way delay: 140.338 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 246.10 Mbit/s
95th percentile per-packet one-way delay: 138.305 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 296.35 Mbit/s
95th percentile per-packet one-way delay: 138.978 ms
Loss rate: 1.72%
-- Flow 3:
Average throughput: 105.14 Mbit/s
95th percentile per-packet one-way delay: 320.346 ms
Loss rate: 7.39%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-05-31 23:04:04

End at: 2018-05-31 23:04:34

Local clock offset: -0.182 ms

Remote clock offset: 0.093 ms

Below is generated by plot.py at 2018-06-01 04:49:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 530.00 Mbit/s

95th percentile per-packet one-way delay: 186.324 ms

Loss rate: 1.66%

-- Flow 1:

Average throughput: 310.43 Mbit/s

95th percentile per-packet one-way delay: 186.824 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 262.37 Mbit/s

95th percentile per-packet one-way delay: 139.089 ms

Loss rate: 1.01%

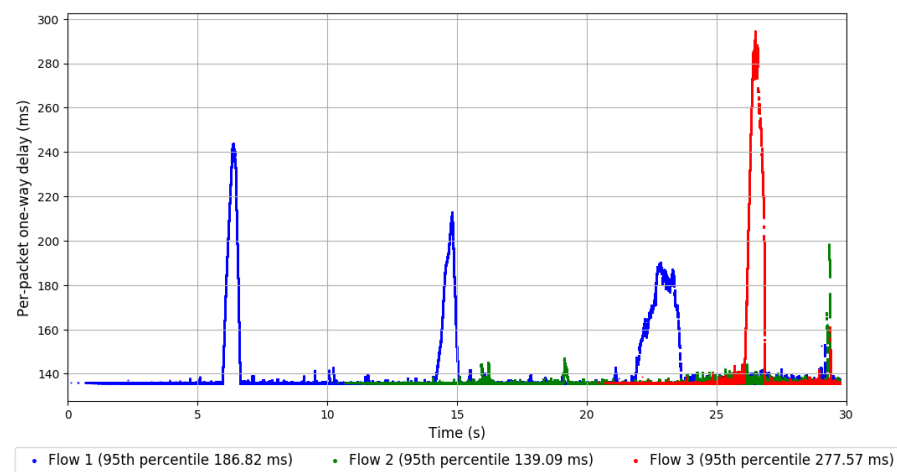
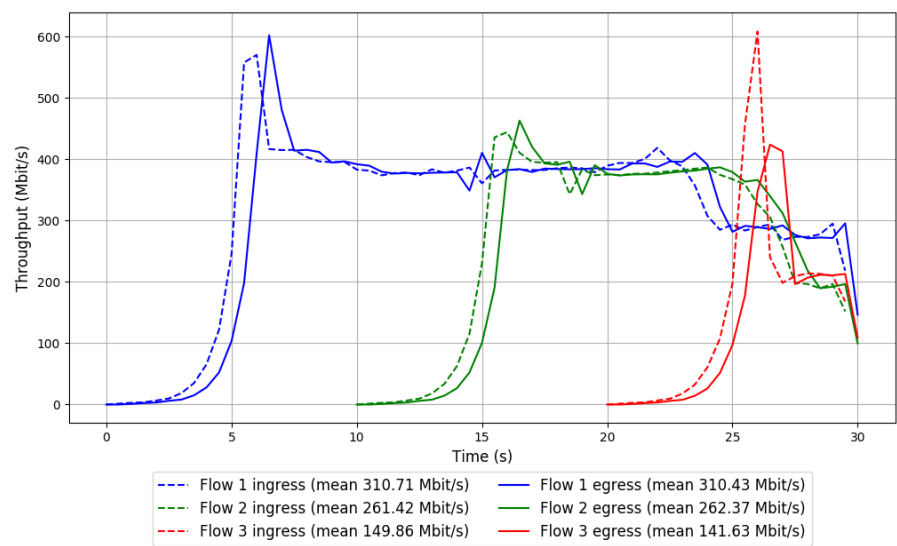
-- Flow 3:

Average throughput: 141.63 Mbit/s

95th percentile per-packet one-way delay: 277.571 ms

Loss rate: 8.11%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-05-31 23:29:26

End at: 2018-05-31 23:29:56

Local clock offset: 0.215 ms

Remote clock offset: 0.393 ms

Below is generated by plot.py at 2018-06-01 04:50:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 540.57 Mbit/s

95th percentile per-packet one-way delay: 142.541 ms

Loss rate: 1.63%

-- Flow 1:

Average throughput: 322.91 Mbit/s

95th percentile per-packet one-way delay: 143.322 ms

Loss rate: 1.19%

-- Flow 2:

Average throughput: 271.01 Mbit/s

95th percentile per-packet one-way delay: 142.209 ms

Loss rate: 1.78%

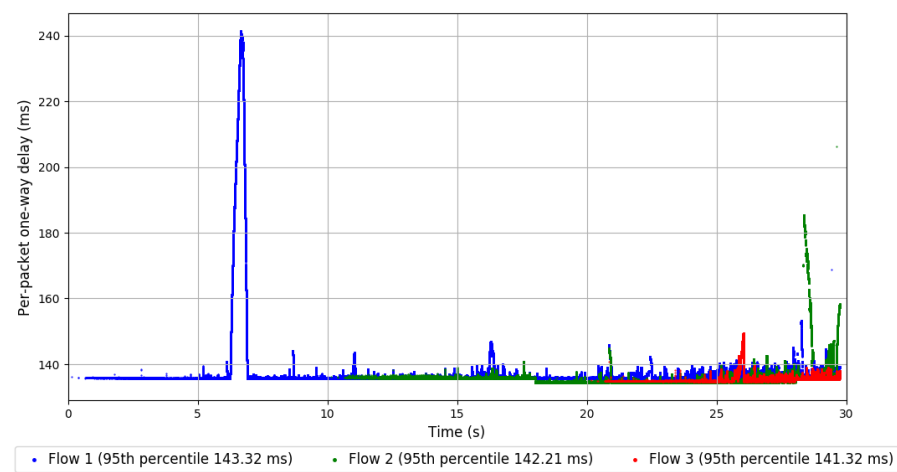
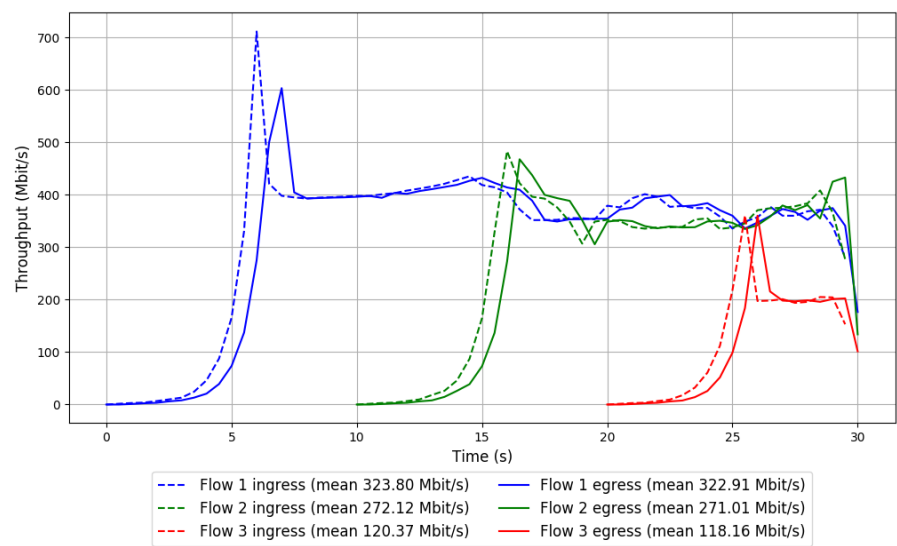
-- Flow 3:

Average throughput: 118.16 Mbit/s

95th percentile per-packet one-way delay: 141.319 ms

Loss rate: 4.57%

Run 3: Report of PCC-Vivace — Data Link

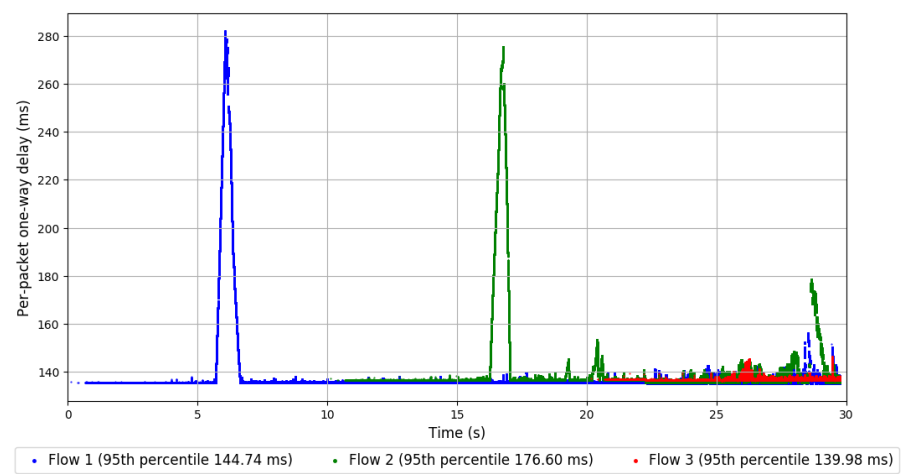
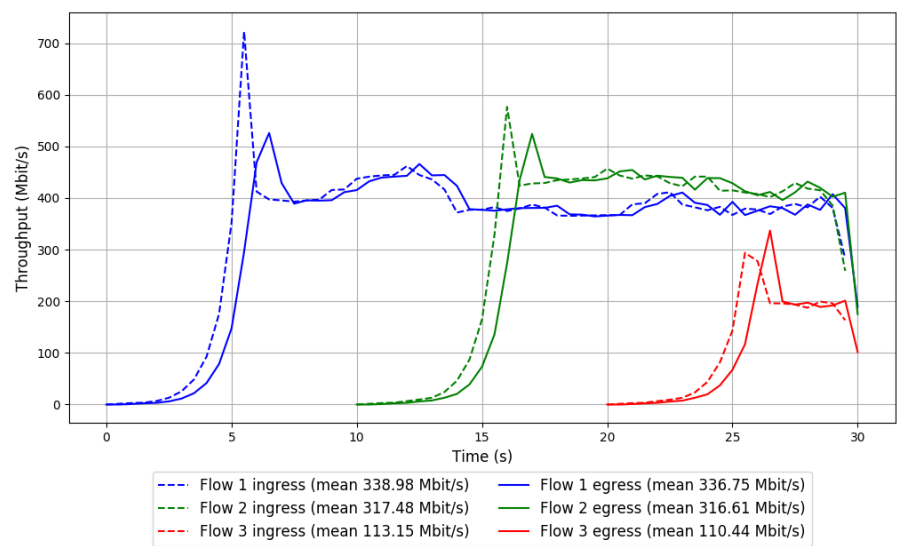


Run 4: Statistics of PCC-Vivace

Start at: 2018-05-31 23:54:52
End at: 2018-05-31 23:55:22
Local clock offset: 0.292 ms
Remote clock offset: -0.457 ms

Below is generated by plot.py at 2018-06-01 04:52:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 582.07 Mbit/s
95th percentile per-packet one-way delay: 158.285 ms
Loss rate: 1.83%
-- Flow 1:
Average throughput: 336.75 Mbit/s
95th percentile per-packet one-way delay: 144.741 ms
Loss rate: 1.57%
-- Flow 2:
Average throughput: 316.61 Mbit/s
95th percentile per-packet one-way delay: 176.596 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 110.44 Mbit/s
95th percentile per-packet one-way delay: 139.977 ms
Loss rate: 5.09%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-06-01 00:20:05

End at: 2018-06-01 00:20:35

Local clock offset: -0.047 ms

Remote clock offset: 0.37 ms

Below is generated by plot.py at 2018-06-01 04:53:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 537.94 Mbit/s

95th percentile per-packet one-way delay: 148.516 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 331.06 Mbit/s

95th percentile per-packet one-way delay: 145.094 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 279.72 Mbit/s

95th percentile per-packet one-way delay: 173.768 ms

Loss rate: 1.37%

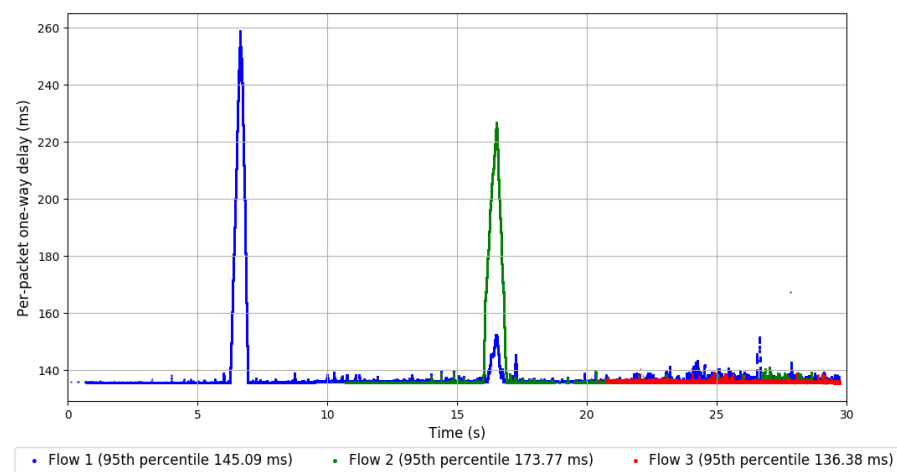
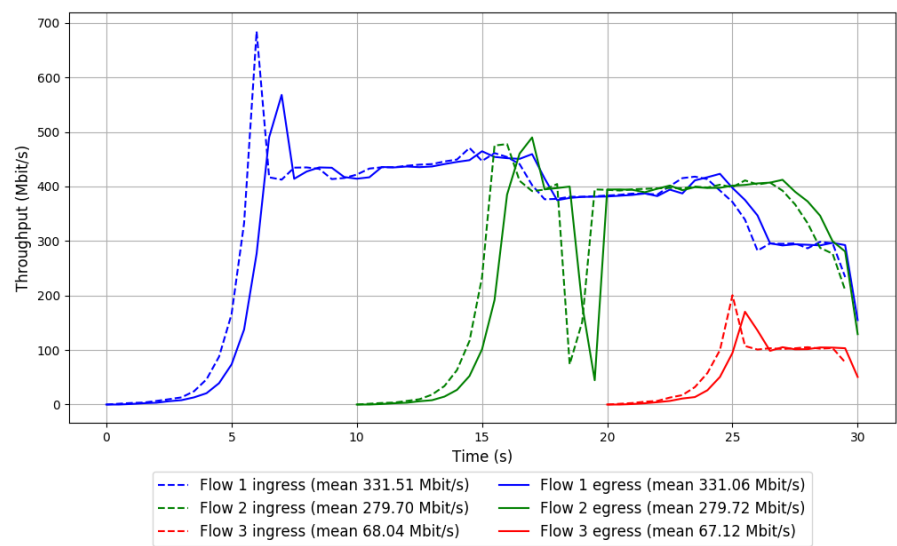
-- Flow 3:

Average throughput: 67.12 Mbit/s

95th percentile per-packet one-way delay: 136.375 ms

Loss rate: 4.12%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-06-01 00:45:39

End at: 2018-06-01 00:46:10

Local clock offset: 0.089 ms

Remote clock offset: -0.38 ms

Below is generated by plot.py at 2018-06-01 04:53:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 536.55 Mbit/s

95th percentile per-packet one-way delay: 175.734 ms

Loss rate: 1.96%

-- Flow 1:

Average throughput: 320.31 Mbit/s

95th percentile per-packet one-way delay: 148.564 ms

Loss rate: 1.29%

-- Flow 2:

Average throughput: 293.99 Mbit/s

95th percentile per-packet one-way delay: 213.776 ms

Loss rate: 2.80%

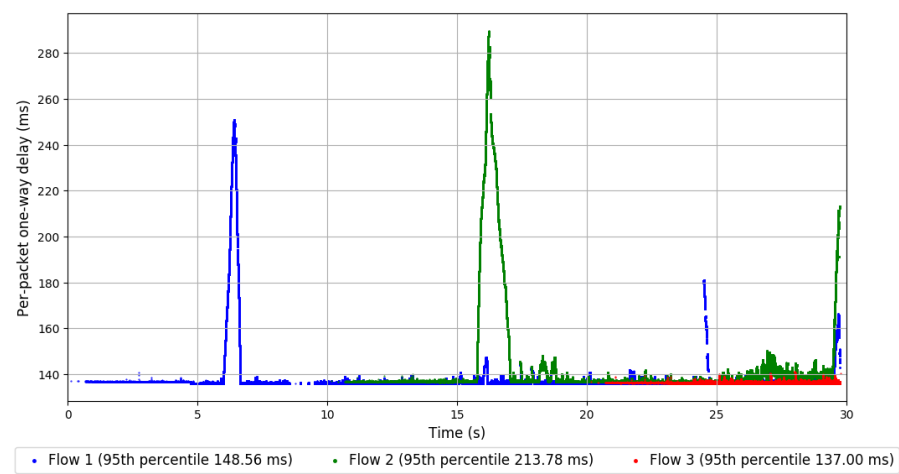
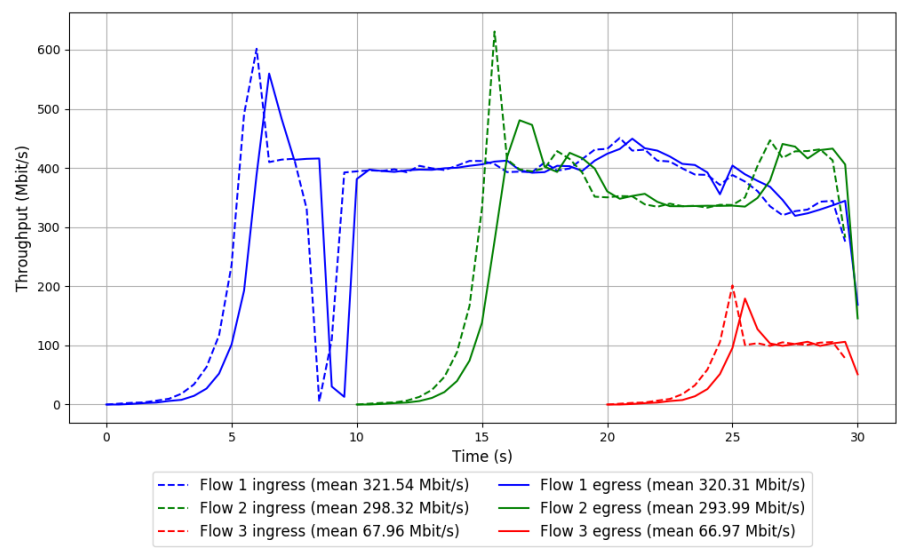
-- Flow 3:

Average throughput: 66.97 Mbit/s

95th percentile per-packet one-way delay: 136.999 ms

Loss rate: 4.12%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-06-01 01:10:54

End at: 2018-06-01 01:11:24

Local clock offset: 0.093 ms

Remote clock offset: 0.082 ms

Below is generated by plot.py at 2018-06-01 04:53:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 510.38 Mbit/s

95th percentile per-packet one-way delay: 225.921 ms

Loss rate: 1.82%

-- Flow 1:

Average throughput: 321.38 Mbit/s

95th percentile per-packet one-way delay: 215.881 ms

Loss rate: 1.83%

-- Flow 2:

Average throughput: 230.93 Mbit/s

95th percentile per-packet one-way delay: 244.997 ms

Loss rate: 1.56%

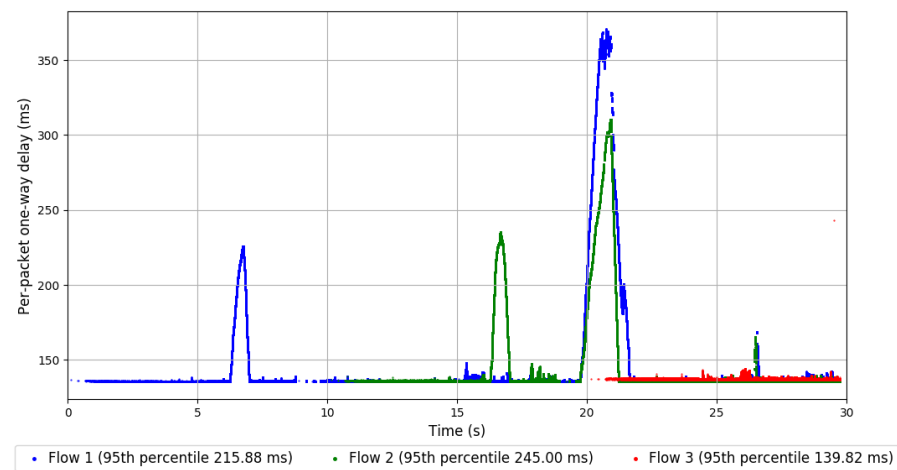
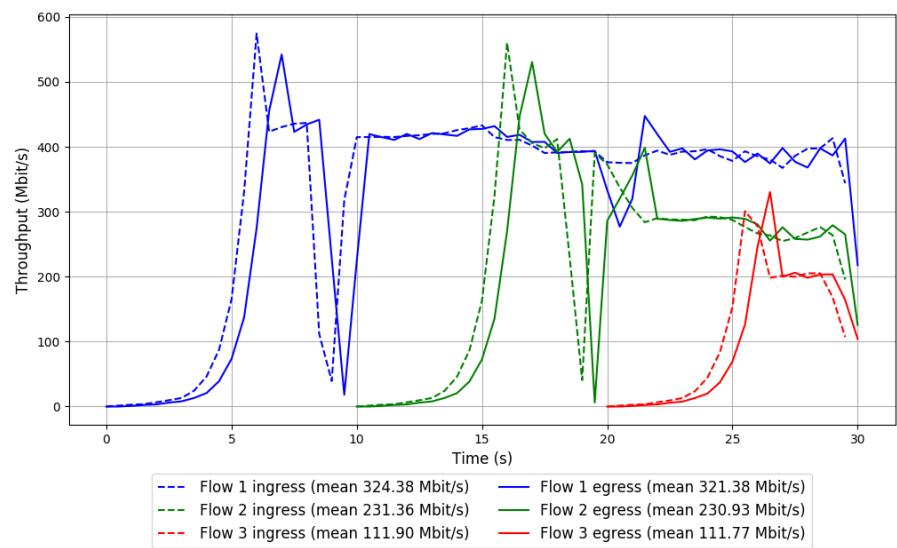
-- Flow 3:

Average throughput: 111.77 Mbit/s

95th percentile per-packet one-way delay: 139.818 ms

Loss rate: 2.88%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-06-01 01:36:13

End at: 2018-06-01 01:36:43

Local clock offset: -0.123 ms

Remote clock offset: 0.046 ms

Below is generated by plot.py at 2018-06-01 04:53:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 370.14 Mbit/s

95th percentile per-packet one-way delay: 180.759 ms

Loss rate: 3.70%

-- Flow 1:

Average throughput: 111.10 Mbit/s

95th percentile per-packet one-way delay: 292.004 ms

Loss rate: 5.07%

-- Flow 2:

Average throughput: 297.78 Mbit/s

95th percentile per-packet one-way delay: 144.789 ms

Loss rate: 1.91%

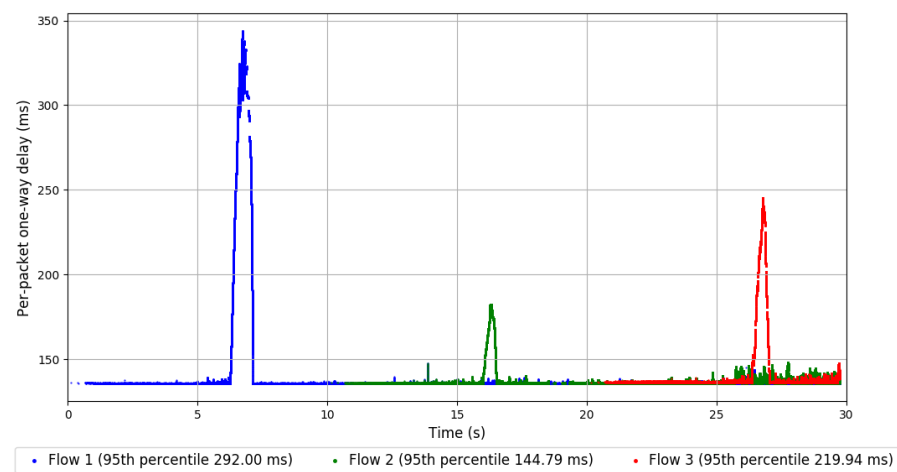
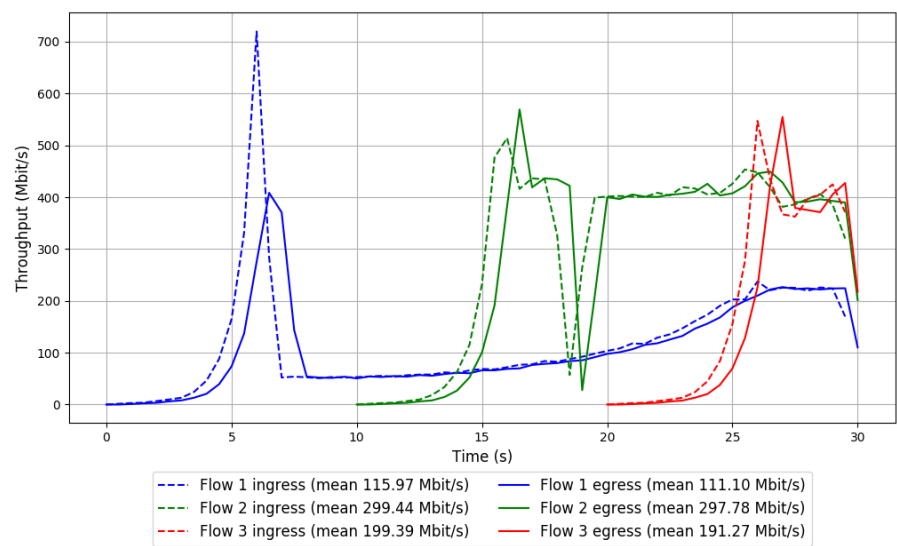
-- Flow 3:

Average throughput: 191.27 Mbit/s

95th percentile per-packet one-way delay: 219.937 ms

Loss rate: 6.70%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-06-01 02:01:15

End at: 2018-06-01 02:01:45

Local clock offset: -0.33 ms

Remote clock offset: -0.38 ms

Below is generated by plot.py at 2018-06-01 04:54:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 570.06 Mbit/s

95th percentile per-packet one-way delay: 197.536 ms

Loss rate: 1.95%

-- Flow 1:

Average throughput: 330.24 Mbit/s

95th percentile per-packet one-way delay: 213.015 ms

Loss rate: 1.62%

-- Flow 2:

Average throughput: 270.52 Mbit/s

95th percentile per-packet one-way delay: 140.513 ms

Loss rate: 1.62%

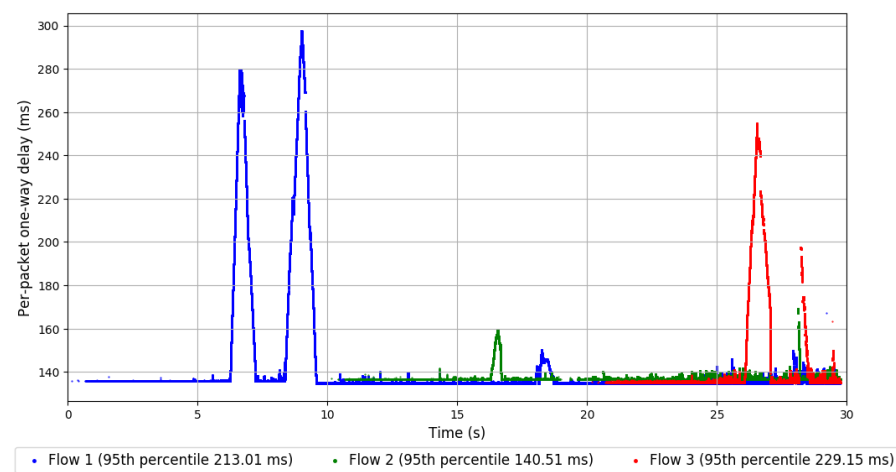
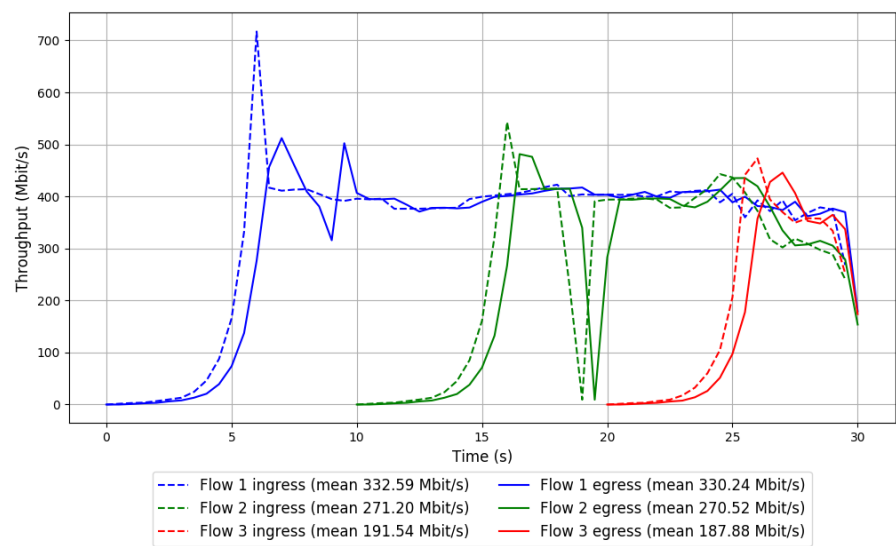
-- Flow 3:

Average throughput: 187.88 Mbit/s

95th percentile per-packet one-way delay: 229.147 ms

Loss rate: 4.61%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-06-01 02:26:32

End at: 2018-06-01 02:27:02

Local clock offset: -0.305 ms

Remote clock offset: 0.02 ms

Below is generated by plot.py at 2018-06-01 04:54:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 534.52 Mbit/s

95th percentile per-packet one-way delay: 160.576 ms

Loss rate: 1.67%

-- Flow 1:

Average throughput: 296.09 Mbit/s

95th percentile per-packet one-way delay: 196.735 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 277.78 Mbit/s

95th percentile per-packet one-way delay: 137.243 ms

Loss rate: 1.73%

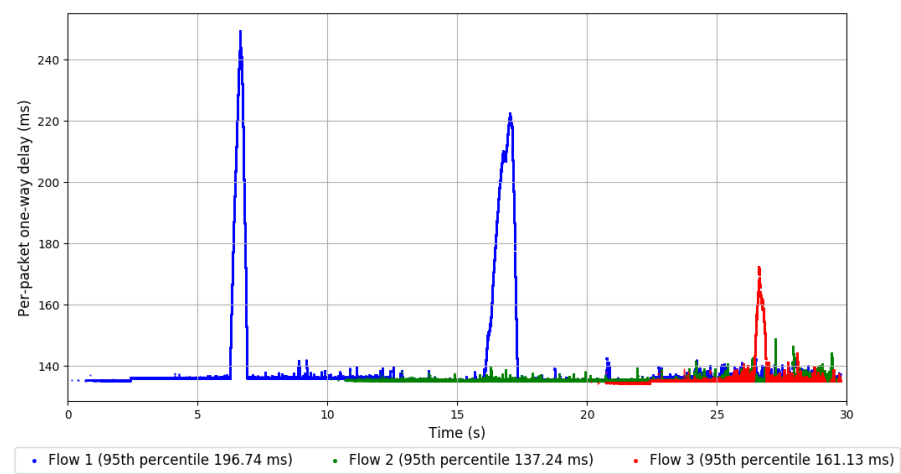
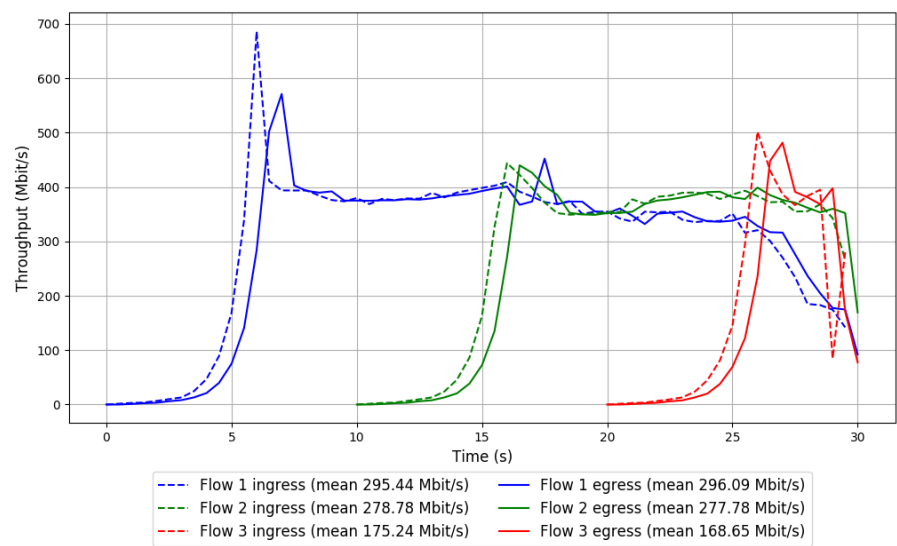
-- Flow 3:

Average throughput: 168.65 Mbit/s

95th percentile per-packet one-way delay: 161.132 ms

Loss rate: 6.40%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-05-31 22:32:21

End at: 2018-05-31 22:32:51

Local clock offset: -0.935 ms

Remote clock offset: 0.377 ms

Below is generated by plot.py at 2018-06-01 04:54:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.97 Mbit/s

95th percentile per-packet one-way delay: 135.792 ms

Loss rate: 2.04%

-- Flow 1:

Average throughput: 1.53 Mbit/s

95th percentile per-packet one-way delay: 135.809 ms

Loss rate: 1.61%

-- Flow 2:

Average throughput: 1.10 Mbit/s

95th percentile per-packet one-way delay: 134.129 ms

Loss rate: 1.76%

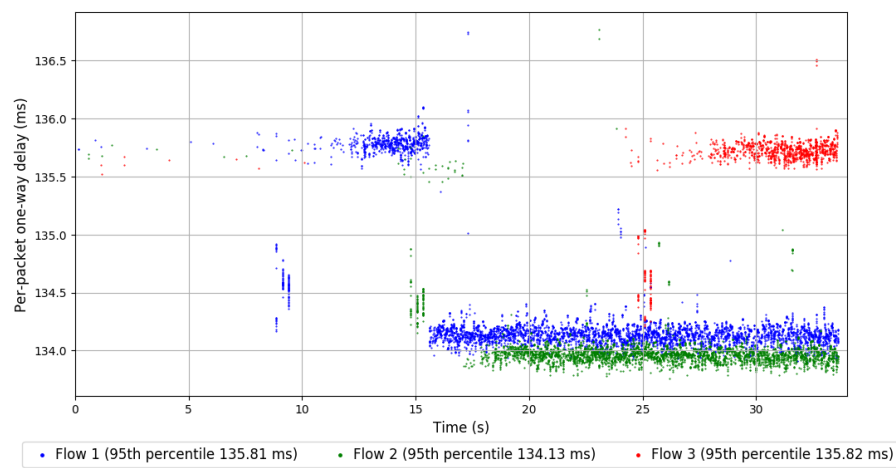
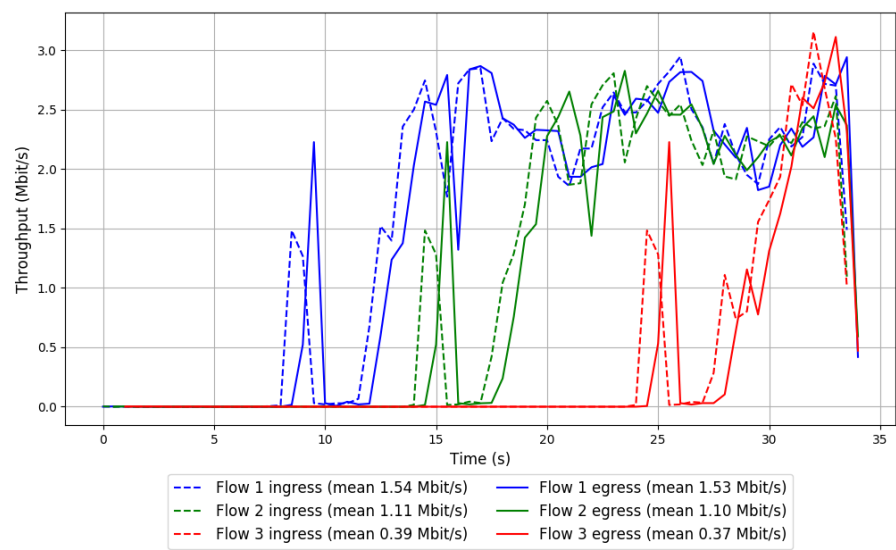
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 135.823 ms

Loss rate: 4.58%

Run 1: Report of WebRTC media — Data Link

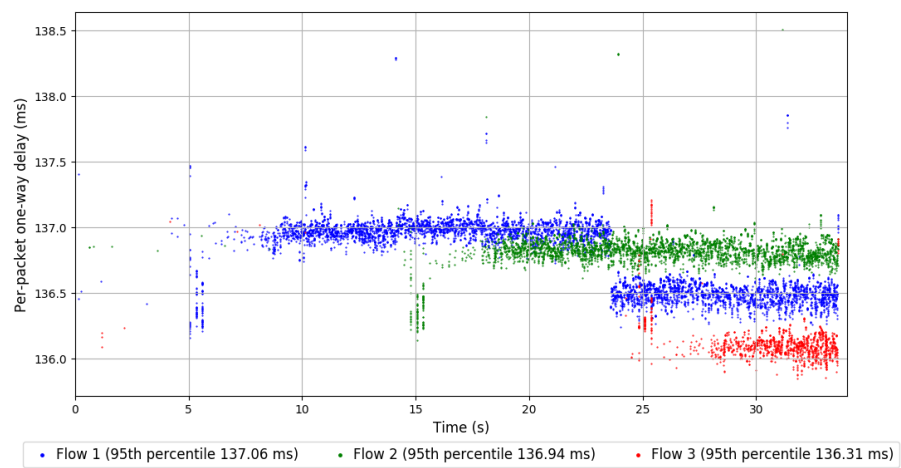
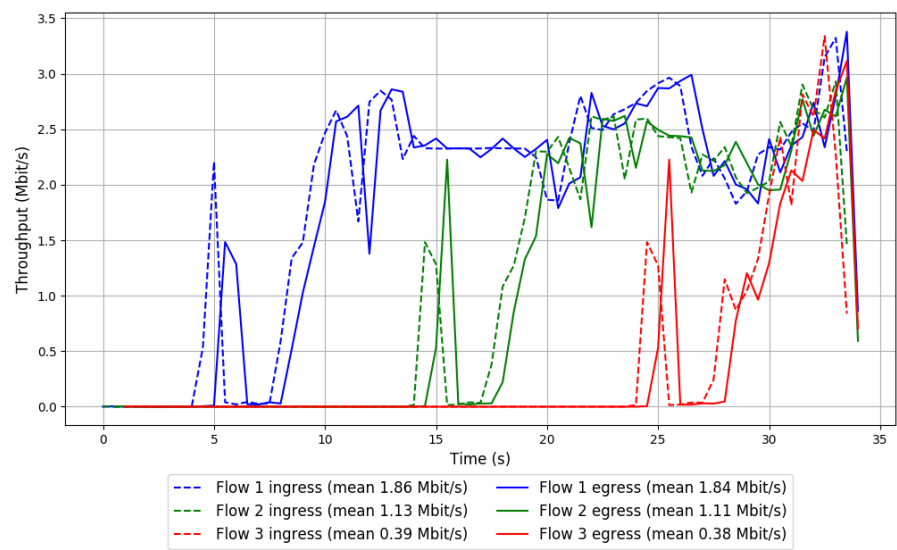


Run 2: Statistics of WebRTC media

Start at: 2018-05-31 22:57:44
End at: 2018-05-31 22:58:14
Local clock offset: -0.095 ms
Remote clock offset: -0.264 ms

Below is generated by plot.py at 2018-06-01 04:54:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.30 Mbit/s
95th percentile per-packet one-way delay: 137.043 ms
Loss rate: 2.17%
-- Flow 1:
Average throughput: 1.84 Mbit/s
95th percentile per-packet one-way delay: 137.064 ms
Loss rate: 1.93%
-- Flow 2:
Average throughput: 1.11 Mbit/s
95th percentile per-packet one-way delay: 136.944 ms
Loss rate: 2.20%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 136.309 ms
Loss rate: 3.28%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-05-31 23:23:20

End at: 2018-05-31 23:23:50

Local clock offset: 0.133 ms

Remote clock offset: 0.126 ms

Below is generated by plot.py at 2018-06-01 04:54:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.29 Mbit/s

95th percentile per-packet one-way delay: 136.050 ms

Loss rate: 1.88%

-- Flow 1:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 136.075 ms

Loss rate: 1.93%

-- Flow 2:

Average throughput: 1.12 Mbit/s

95th percentile per-packet one-way delay: 135.586 ms

Loss rate: 2.09%

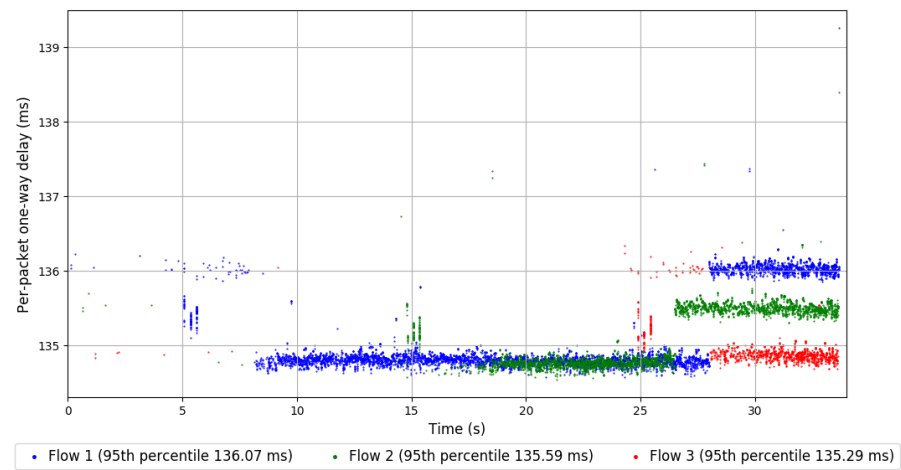
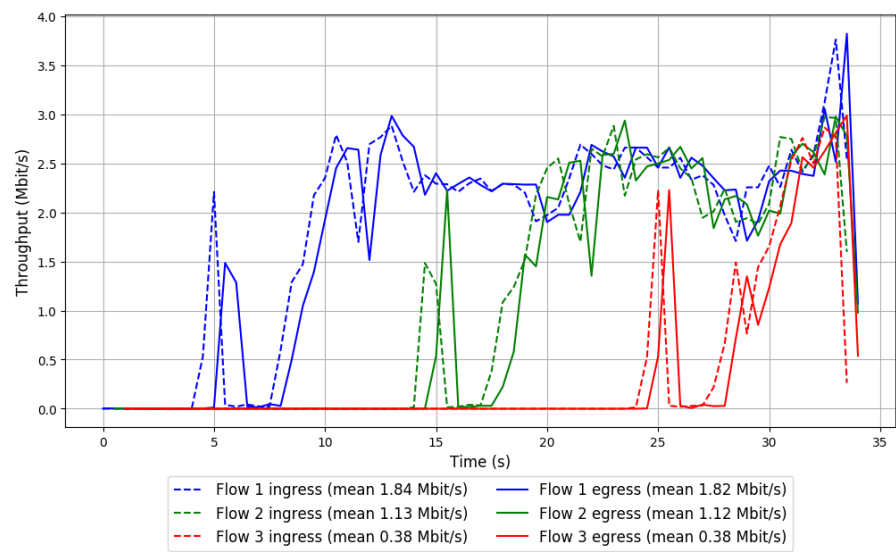
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 135.294 ms

Loss rate: 1.05%

Run 3: Report of WebRTC media — Data Link

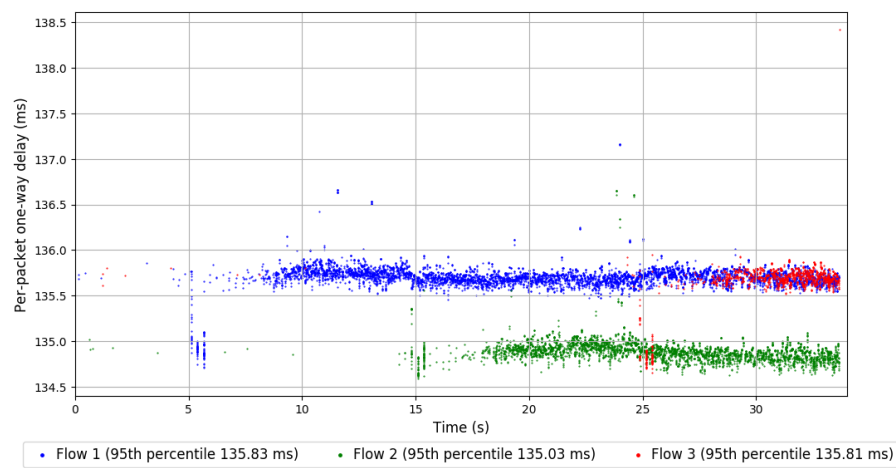
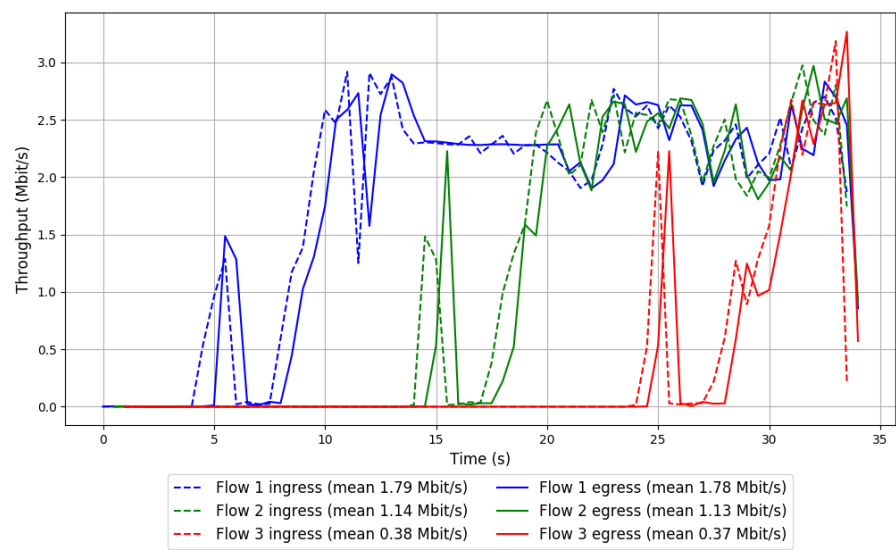


Run 4: Statistics of WebRTC media

Start at: 2018-05-31 23:48:43
End at: 2018-05-31 23:49:13
Local clock offset: -0.347 ms
Remote clock offset: -0.062 ms

Below is generated by plot.py at 2018-06-01 04:54:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.25 Mbit/s
95th percentile per-packet one-way delay: 135.808 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 1.78 Mbit/s
95th percentile per-packet one-way delay: 135.829 ms
Loss rate: 1.39%
-- Flow 2:
Average throughput: 1.13 Mbit/s
95th percentile per-packet one-way delay: 135.031 ms
Loss rate: 2.06%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 135.805 ms
Loss rate: 0.79%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-06-01 00:13:59

End at: 2018-06-01 00:14:29

Local clock offset: -0.037 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-06-01 04:54:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.18 Mbit/s

95th percentile per-packet one-way delay: 136.174 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 1.73 Mbit/s

95th percentile per-packet one-way delay: 136.169 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 1.11 Mbit/s

95th percentile per-packet one-way delay: 136.210 ms

Loss rate: 1.93%

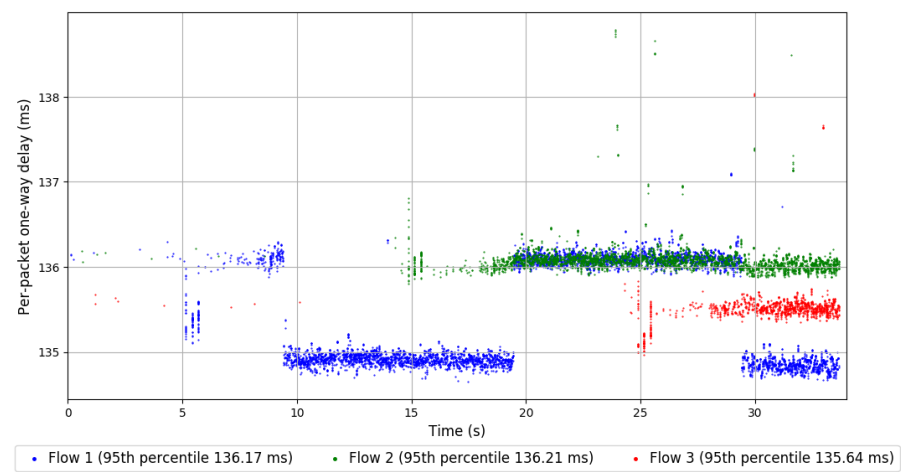
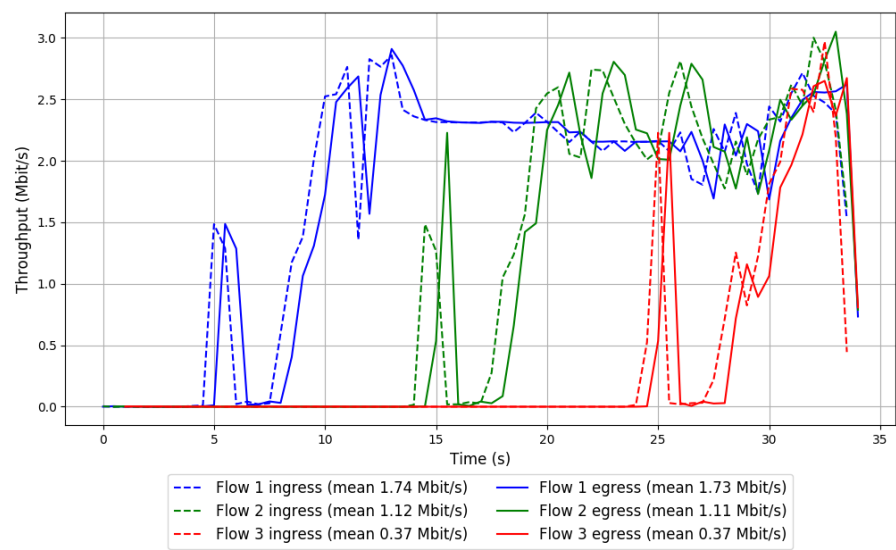
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 135.640 ms

Loss rate: 1.21%

Run 5: Report of WebRTC media — Data Link

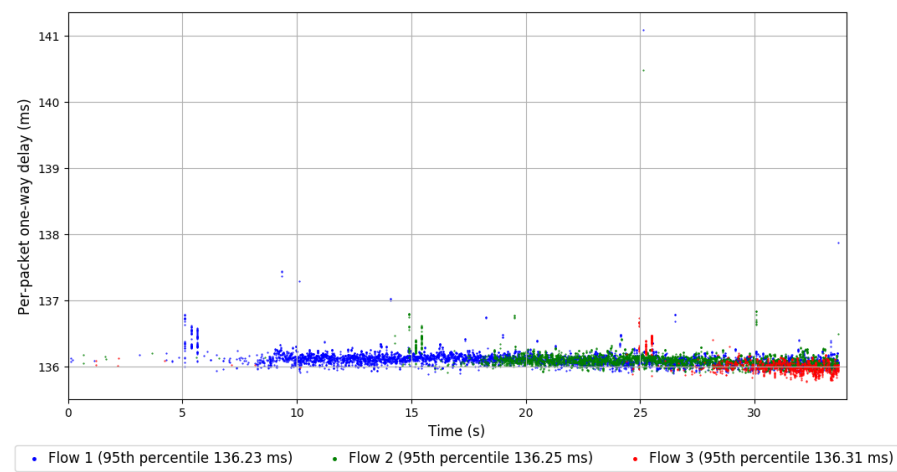
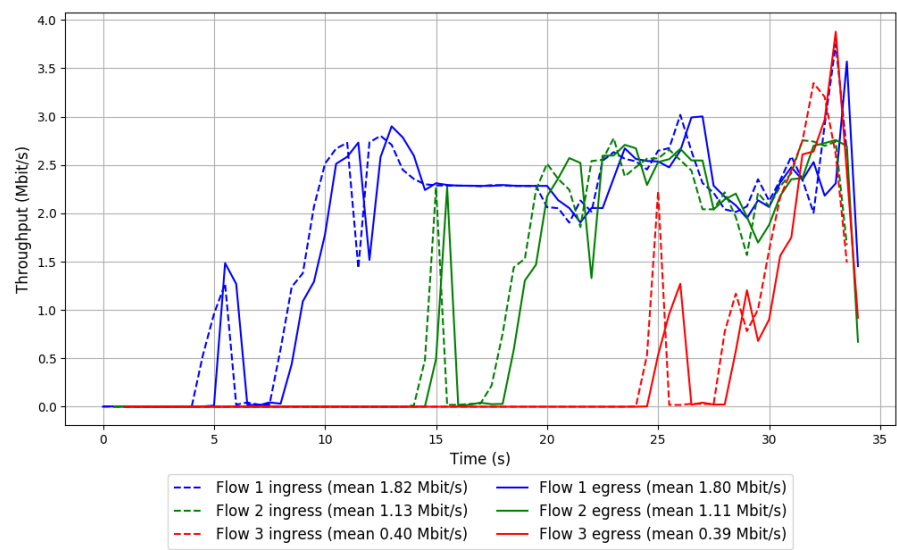


Run 6: Statistics of WebRTC media

Start at: 2018-06-01 00:39:25
End at: 2018-06-01 00:39:55
Local clock offset: 0.299 ms
Remote clock offset: -0.322 ms

Below is generated by plot.py at 2018-06-01 04:54:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.27 Mbit/s
95th percentile per-packet one-way delay: 136.242 ms
Loss rate: 2.33%
-- Flow 1:
Average throughput: 1.80 Mbit/s
95th percentile per-packet one-way delay: 136.233 ms
Loss rate: 1.89%
-- Flow 2:
Average throughput: 1.11 Mbit/s
95th percentile per-packet one-way delay: 136.247 ms
Loss rate: 2.21%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 136.310 ms
Loss rate: 4.77%

Run 6: Report of WebRTC media — Data Link

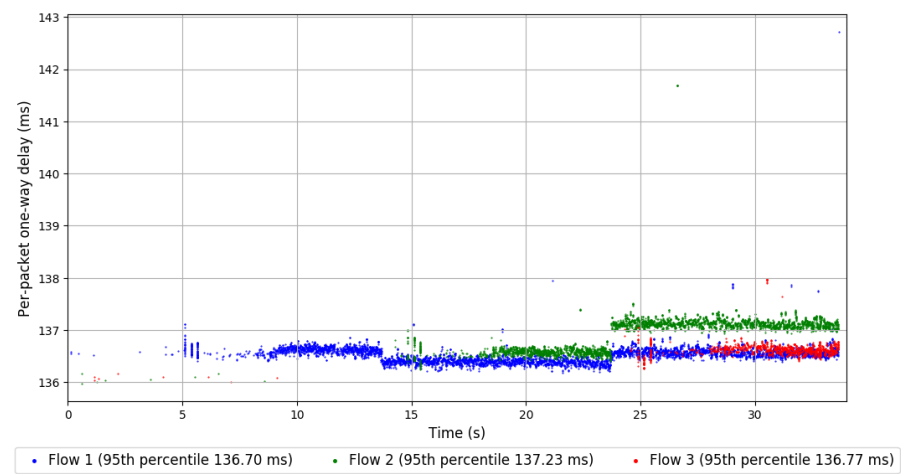
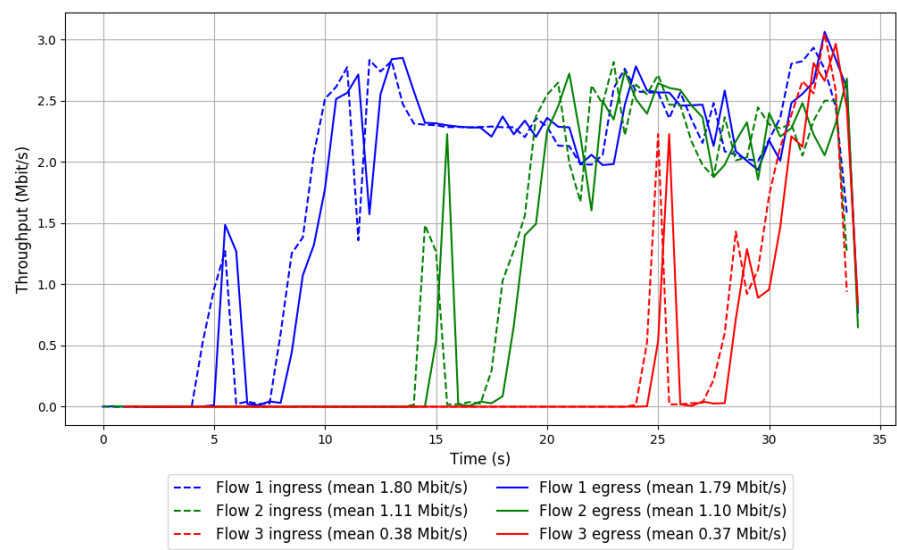


Run 7: Statistics of WebRTC media

Start at: 2018-06-01 01:04:43
End at: 2018-06-01 01:05:13
Local clock offset: 0.486 ms
Remote clock offset: -0.355 ms

Below is generated by plot.py at 2018-06-01 04:54:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.23 Mbit/s
95th percentile per-packet one-way delay: 137.167 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 136.700 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 1.10 Mbit/s
95th percentile per-packet one-way delay: 137.234 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 136.766 ms
Loss rate: 3.72%

Run 7: Report of WebRTC media — Data Link

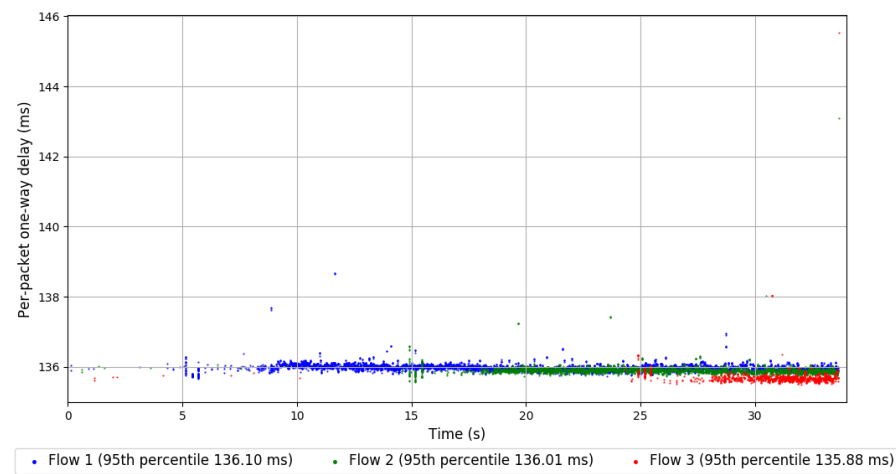
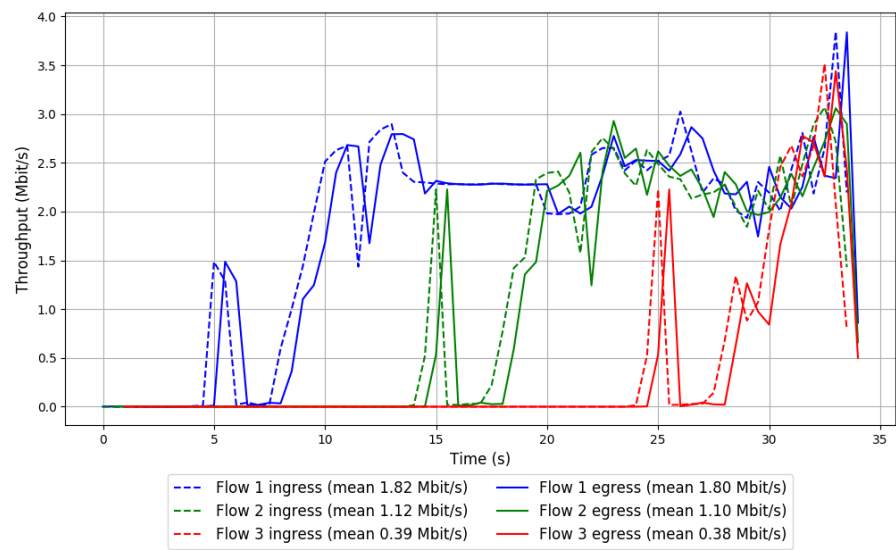


Run 8: Statistics of WebRTC media

Start at: 2018-06-01 01:30:01
End at: 2018-06-01 01:30:31
Local clock offset: -0.236 ms
Remote clock offset: -0.006 ms

Below is generated by plot.py at 2018-06-01 04:54:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.25 Mbit/s
95th percentile per-packet one-way delay: 136.081 ms
Loss rate: 1.97%
-- Flow 1:
Average throughput: 1.80 Mbit/s
95th percentile per-packet one-way delay: 136.103 ms
Loss rate: 1.79%
-- Flow 2:
Average throughput: 1.10 Mbit/s
95th percentile per-packet one-way delay: 136.006 ms
Loss rate: 1.90%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 135.883 ms
Loss rate: 3.11%

Run 8: Report of WebRTC media — Data Link

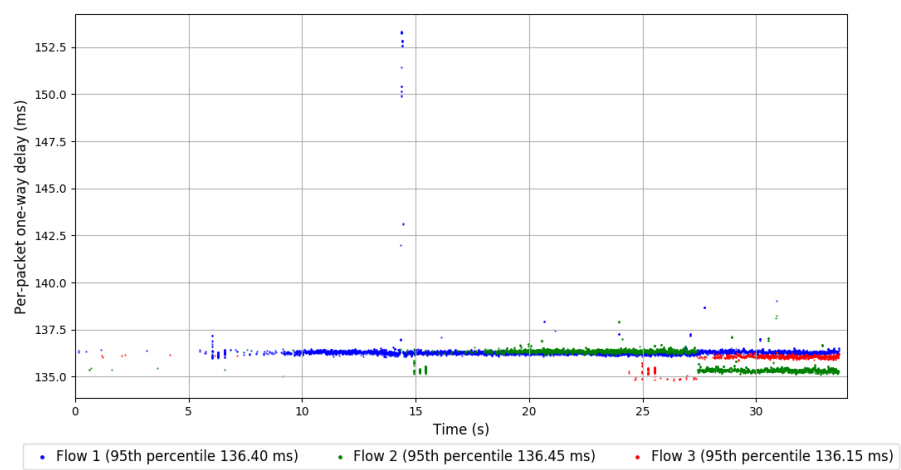
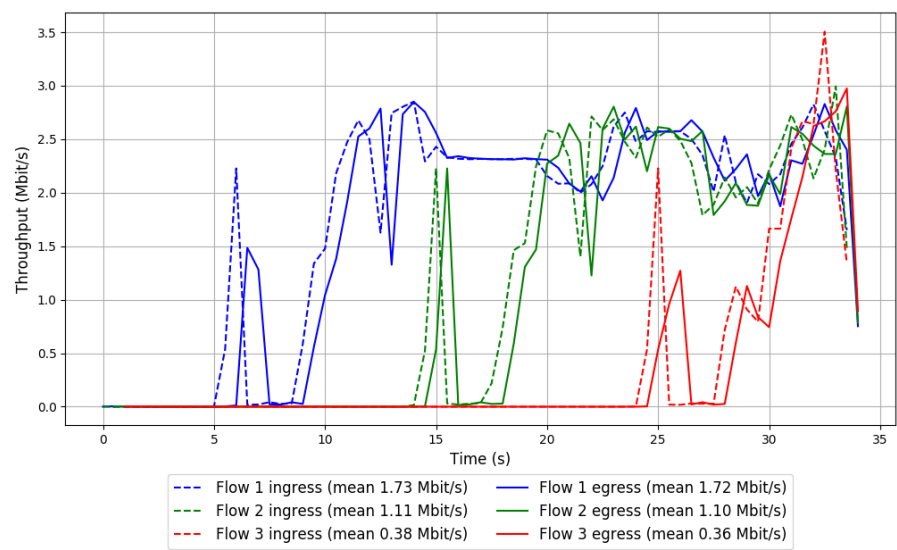


Run 9: Statistics of WebRTC media

Start at: 2018-06-01 01:55:01
End at: 2018-06-01 01:55:31
Local clock offset: 0.153 ms
Remote clock offset: -0.006 ms

Below is generated by plot.py at 2018-06-01 04:54:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.15 Mbit/s
95th percentile per-packet one-way delay: 136.421 ms
Loss rate: 1.98%
-- Flow 1:
Average throughput: 1.72 Mbit/s
95th percentile per-packet one-way delay: 136.400 ms
Loss rate: 1.38%
-- Flow 2:
Average throughput: 1.10 Mbit/s
95th percentile per-packet one-way delay: 136.453 ms
Loss rate: 2.00%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 136.153 ms
Loss rate: 4.77%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-01 02:20:19
End at: 2018-06-01 02:20:49
Local clock offset: -0.075 ms
Remote clock offset: -0.406 ms

Below is generated by plot.py at 2018-06-01 04:54:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.19 Mbit/s
95th percentile per-packet one-way delay: 136.967 ms
Loss rate: 1.88%
-- Flow 1:
Average throughput: 1.77 Mbit/s
95th percentile per-packet one-way delay: 136.981 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 1.08 Mbit/s
95th percentile per-packet one-way delay: 136.582 ms
Loss rate: 2.31%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 137.001 ms
Loss rate: 4.32%

Run 10: Report of WebRTC media — Data Link

