

Pantheon Report

Generated at 2018-06-06 12:23:09 (UTC).

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

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.

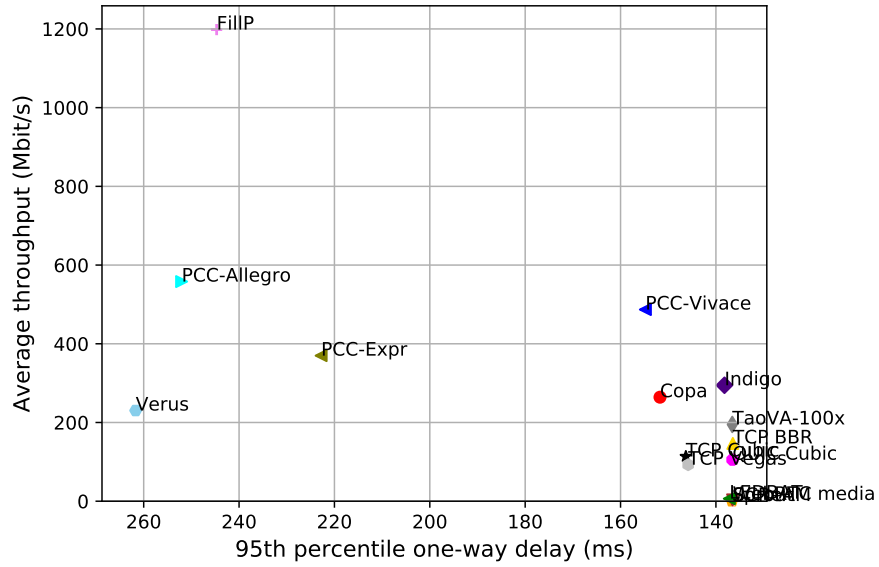
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

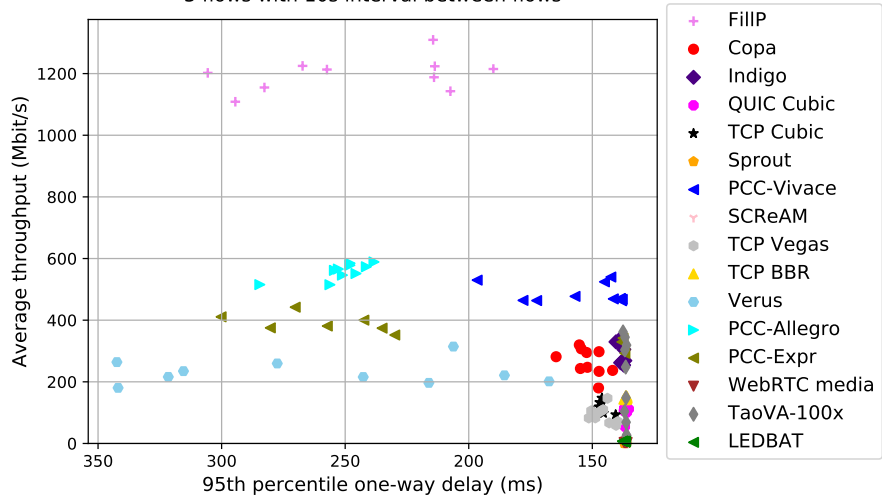
Git summary:

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

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



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



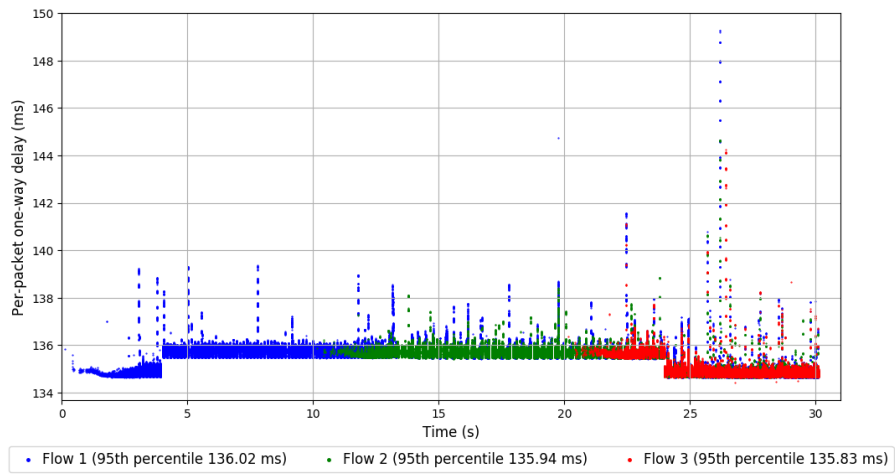
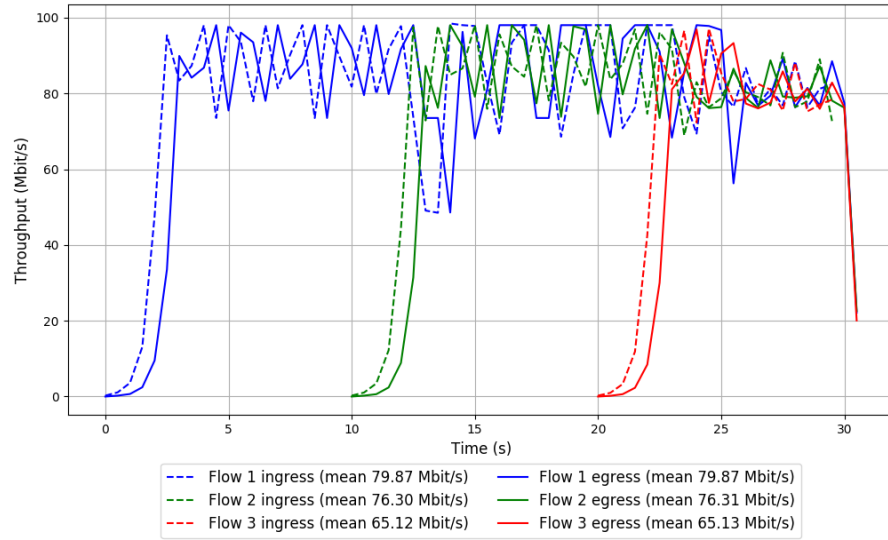
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	75.71	73.71	66.43	136.44	136.45	136.44	0.00	0.00	0.00
Copa	10	159.65	108.70	97.16	149.74	153.00	159.35	0.01	0.01	0.12
TCP Cubic	10	68.92	55.71	23.68	146.08	147.23	143.85	0.05	0.01	0.35
FillP	10	649.36	587.93	476.11	247.13	247.22	187.15	2.45	1.10	0.77
Indigo	10	148.17	153.12	140.69	137.71	138.26	140.68	0.00	0.01	0.02
LEDBAT	10	4.64	2.29	0.99	137.23	137.04	136.68	0.05	0.00	0.00
PCC-Allegro	10	477.16	105.60	32.49	252.20	251.65	236.11	2.91	2.81	3.90
PCC-Expr	10	238.48	161.68	72.30	231.43	180.62	182.64	1.14	0.60	1.14
QUIC Cubic	10	52.94	58.31	43.48	136.14	136.13	136.10	0.00	0.00	0.00
SCReAM	10	0.22	0.22	0.22	136.00	136.31	135.91	0.00	0.00	0.00
Sprout	10	0.18	0.16	0.20	136.53	136.31	136.53	0.00	0.00	0.00
TaoVA-100x	10	111.18	101.47	48.69	136.45	136.49	136.81	0.00	0.00	0.00
TCP Vegas	10	56.02	42.15	26.33	144.90	146.08	145.58	0.03	0.04	0.12
Verus	10	136.63	112.98	59.44	238.13	248.57	201.04	3.13	2.70	1.82
PCC-Vivace	10	303.23	209.86	133.87	142.52	164.32	167.68	0.05	0.04	0.12
WebRTC media	10	1.84	1.09	0.36	136.36	136.23	136.42	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-06-06 06:24:48
End at: 2018-06-06 06:25:18
Local clock offset: -0.265 ms
Remote clock offset: -0.141 ms

Below is generated by plot.py at 2018-06-06 10:38:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 152.35 Mbit/s
95th percentile per-packet one-way delay: 135.982 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 79.87 Mbit/s
95th percentile per-packet one-way delay: 136.017 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 76.31 Mbit/s
95th percentile per-packet one-way delay: 135.937 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 65.13 Mbit/s
95th percentile per-packet one-way delay: 135.826 ms
Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-06-06 06:49:36

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

Local clock offset: -0.031 ms

Remote clock offset: 0.324 ms

Below is generated by plot.py at 2018-06-06 10:38:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 142.02 Mbit/s

95th percentile per-packet one-way delay: 136.520 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 73.85 Mbit/s

95th percentile per-packet one-way delay: 136.518 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 70.38 Mbit/s

95th percentile per-packet one-way delay: 136.499 ms

Loss rate: 0.01%

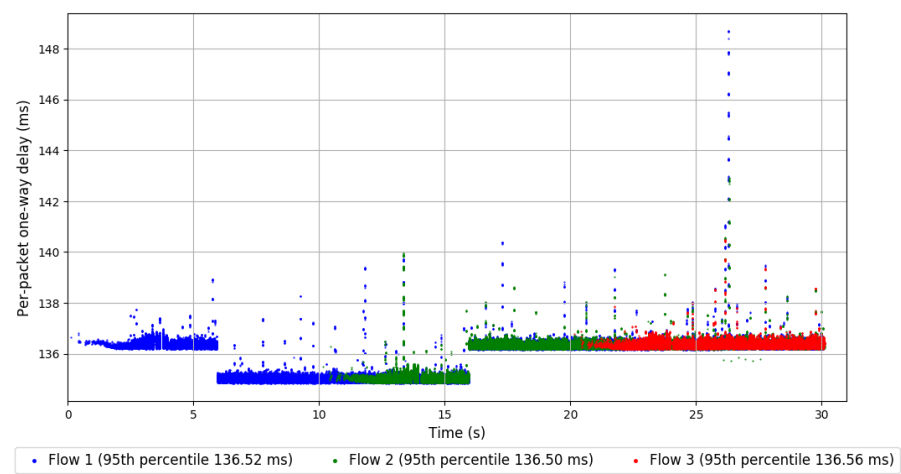
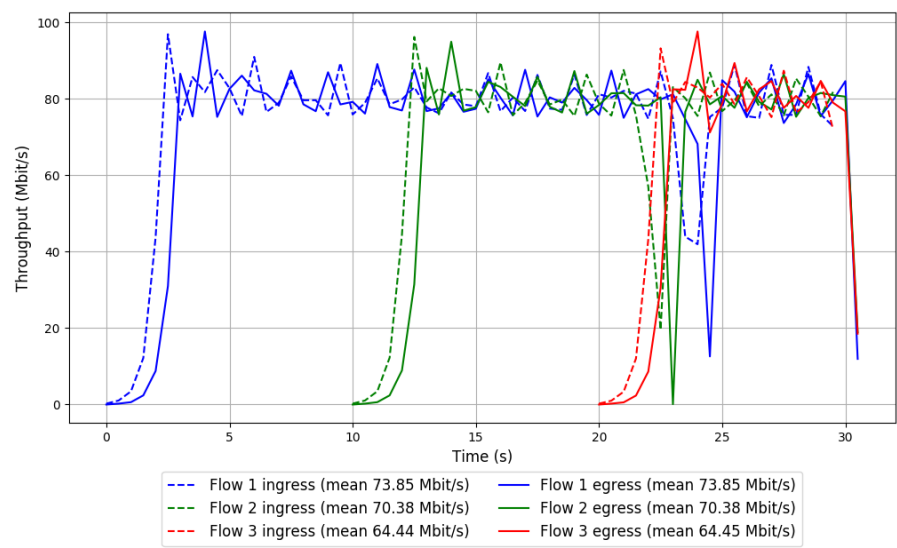
-- Flow 3:

Average throughput: 64.45 Mbit/s

95th percentile per-packet one-way delay: 136.559 ms

Loss rate: 0.01%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-06-06 07:14:34

End at: 2018-06-06 07:15:04

Local clock offset: -0.408 ms

Remote clock offset: 0.355 ms

Below is generated by plot.py at 2018-06-06 10:38:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 143.92 Mbit/s

95th percentile per-packet one-way delay: 137.238 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 73.89 Mbit/s

95th percentile per-packet one-way delay: 137.192 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 70.58 Mbit/s

95th percentile per-packet one-way delay: 137.202 ms

Loss rate: 0.00%

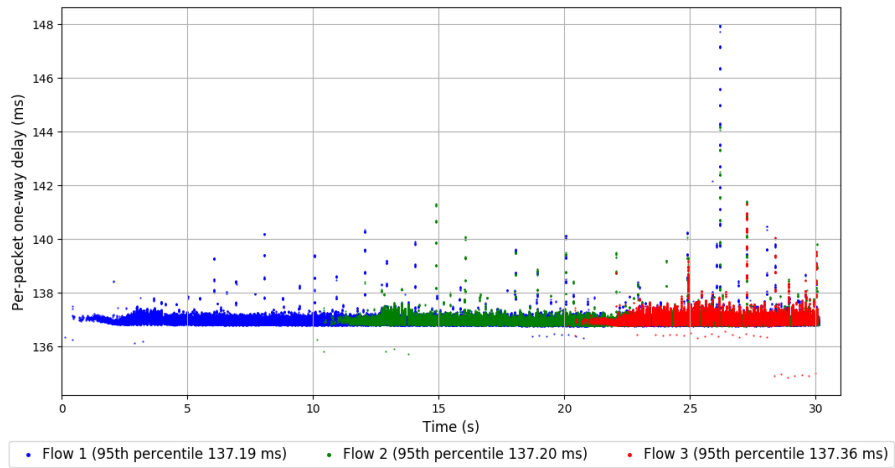
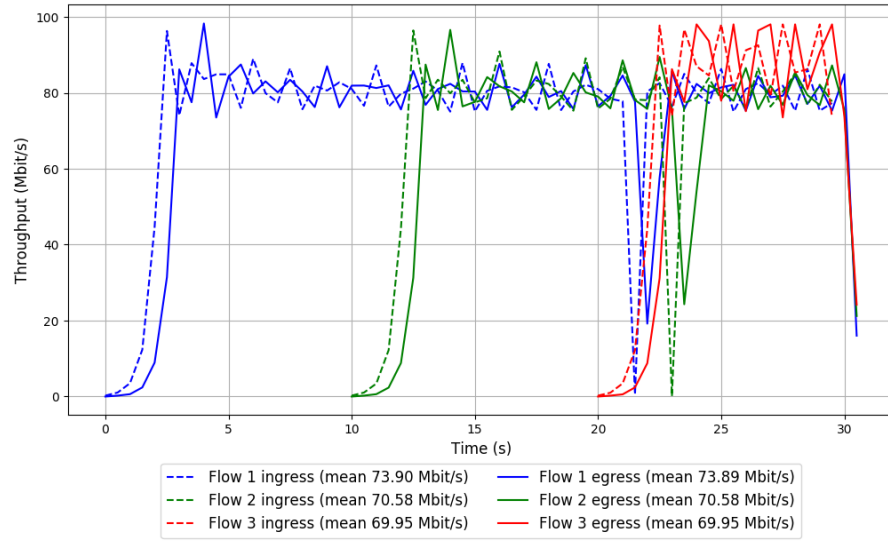
-- Flow 3:

Average throughput: 69.95 Mbit/s

95th percentile per-packet one-way delay: 137.362 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-06-06 07:39:04

End at: 2018-06-06 07:39:35

Local clock offset: 0.001 ms

Remote clock offset: 0.37 ms

Below is generated by plot.py at 2018-06-06 10:38:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 145.26 Mbit/s

95th percentile per-packet one-way delay: 136.798 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 72.16 Mbit/s

95th percentile per-packet one-way delay: 136.713 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 75.27 Mbit/s

95th percentile per-packet one-way delay: 136.836 ms

Loss rate: 0.00%

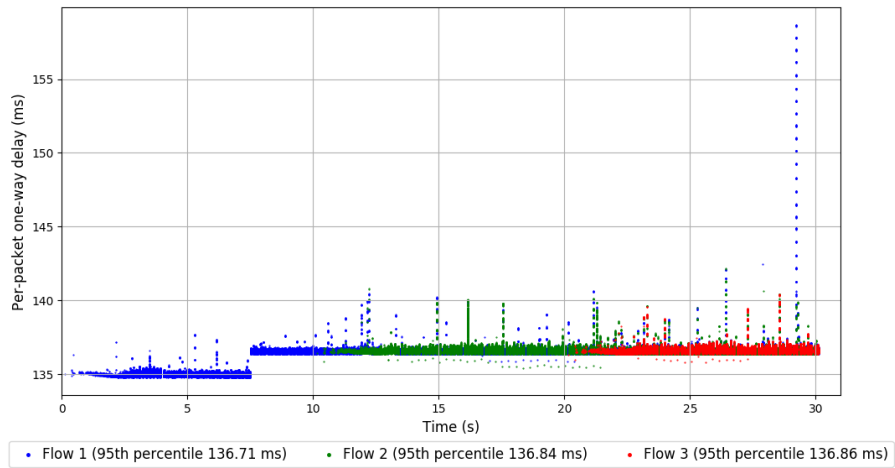
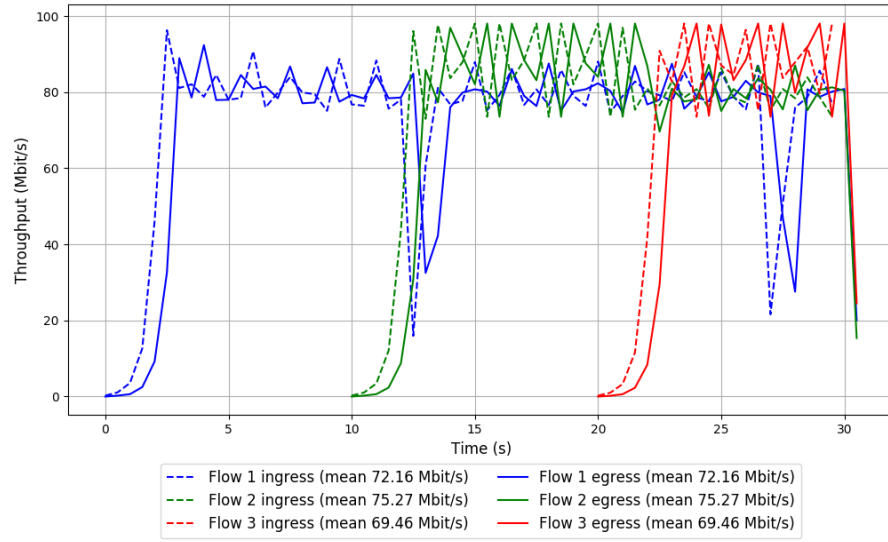
-- Flow 3:

Average throughput: 69.46 Mbit/s

95th percentile per-packet one-way delay: 136.861 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link

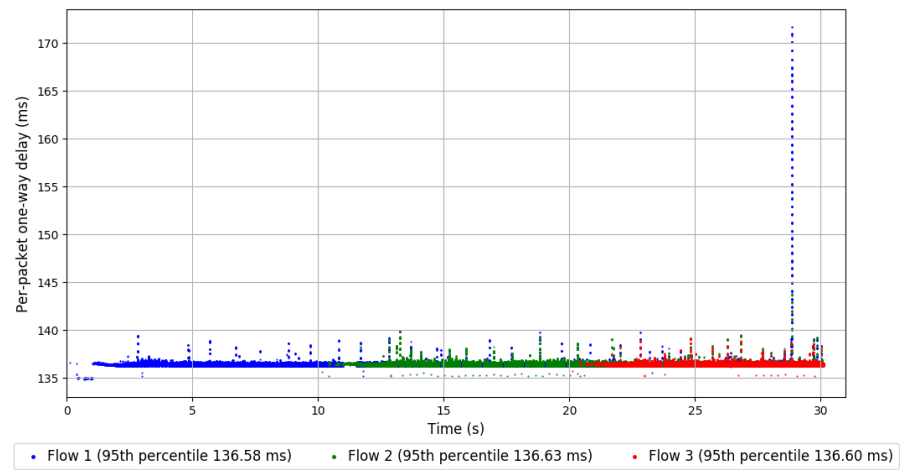
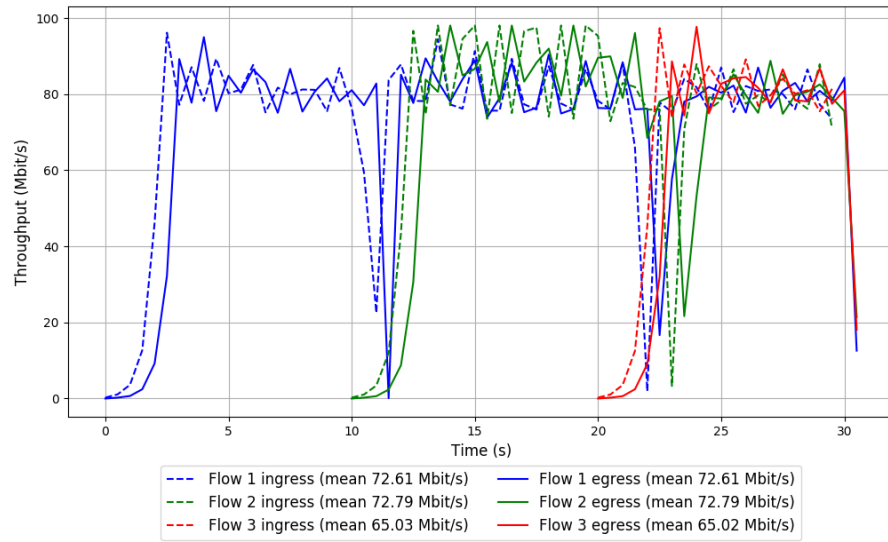


Run 5: Statistics of TCP BBR

Start at: 2018-06-06 08:03:41
End at: 2018-06-06 08:04:11
Local clock offset: 0.266 ms
Remote clock offset: -0.125 ms

Below is generated by plot.py at 2018-06-06 10:38:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 142.70 Mbit/s
95th percentile per-packet one-way delay: 136.603 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 72.61 Mbit/s
95th percentile per-packet one-way delay: 136.580 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 72.79 Mbit/s
95th percentile per-packet one-way delay: 136.635 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 65.02 Mbit/s
95th percentile per-packet one-way delay: 136.598 ms
Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-06-06 08:28:54

End at: 2018-06-06 08:29:24

Local clock offset: -0.218 ms

Remote clock offset: -0.12 ms

Below is generated by plot.py at 2018-06-06 10:38:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 151.06 Mbit/s

95th percentile per-packet one-way delay: 136.628 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 81.11 Mbit/s

95th percentile per-packet one-way delay: 136.697 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 72.73 Mbit/s

95th percentile per-packet one-way delay: 136.443 ms

Loss rate: 0.00%

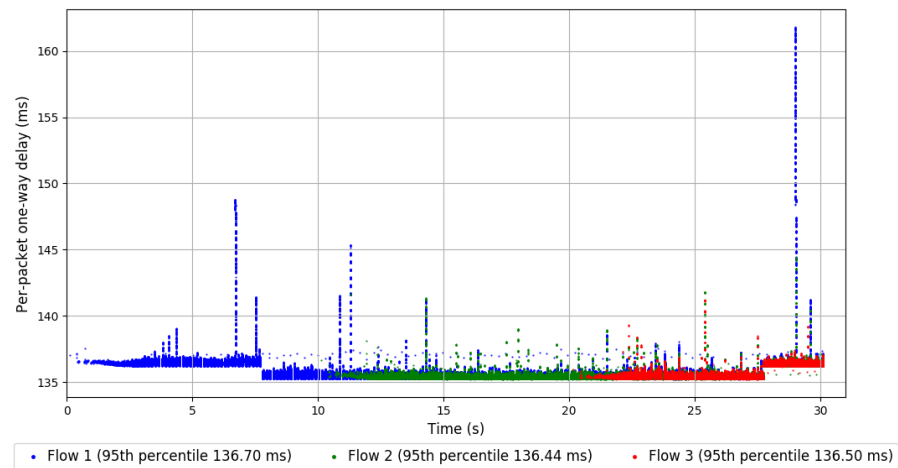
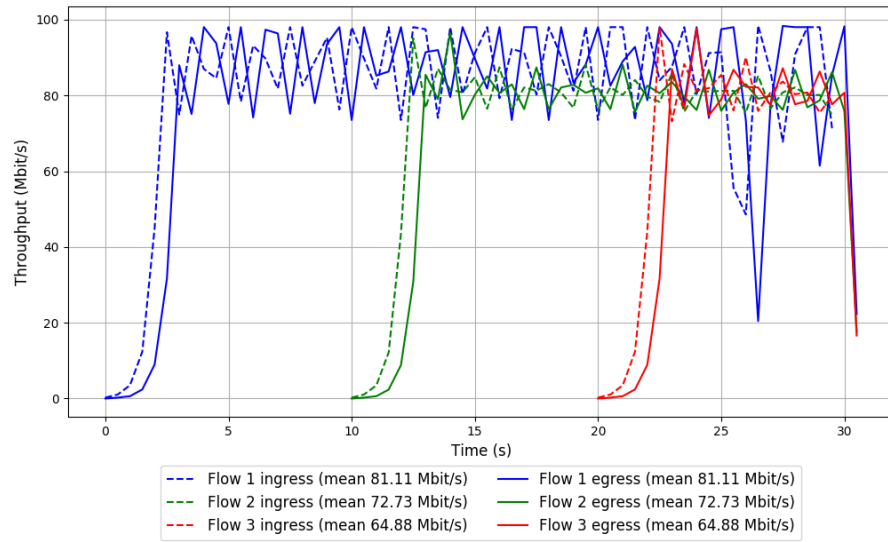
-- Flow 3:

Average throughput: 64.88 Mbit/s

95th percentile per-packet one-way delay: 136.502 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-06-06 08:54:01

End at: 2018-06-06 08:54:31

Local clock offset: -0.065 ms

Remote clock offset: 0.3 ms

Below is generated by plot.py at 2018-06-06 10:38:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 142.93 Mbit/s

95th percentile per-packet one-way delay: 136.214 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 73.89 Mbit/s

95th percentile per-packet one-way delay: 136.207 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 71.47 Mbit/s

95th percentile per-packet one-way delay: 136.219 ms

Loss rate: 0.00%

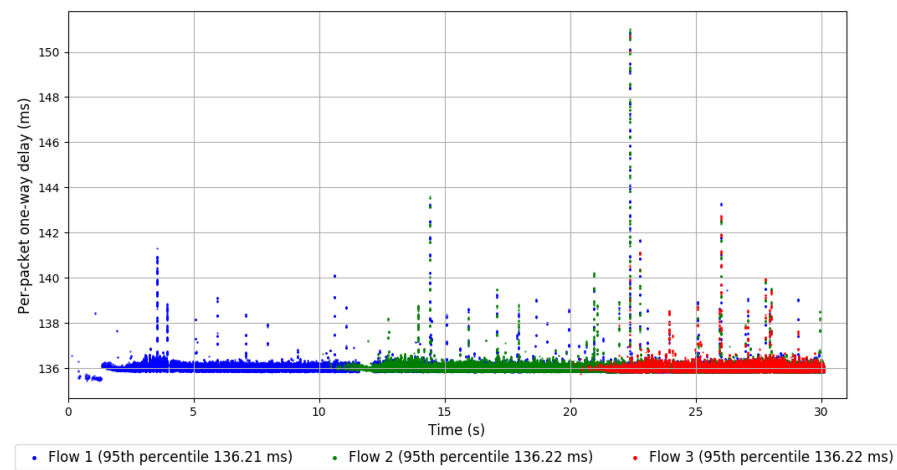
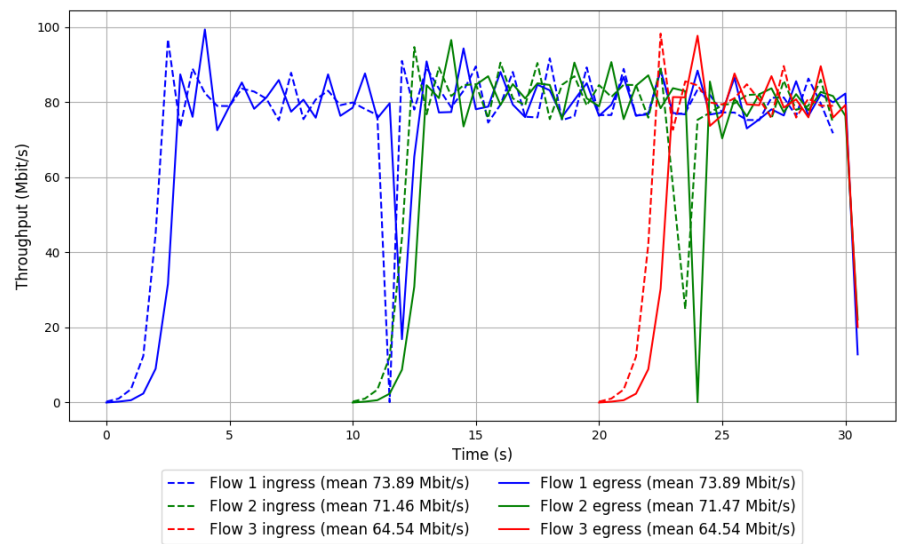
-- Flow 3:

Average throughput: 64.54 Mbit/s

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

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link

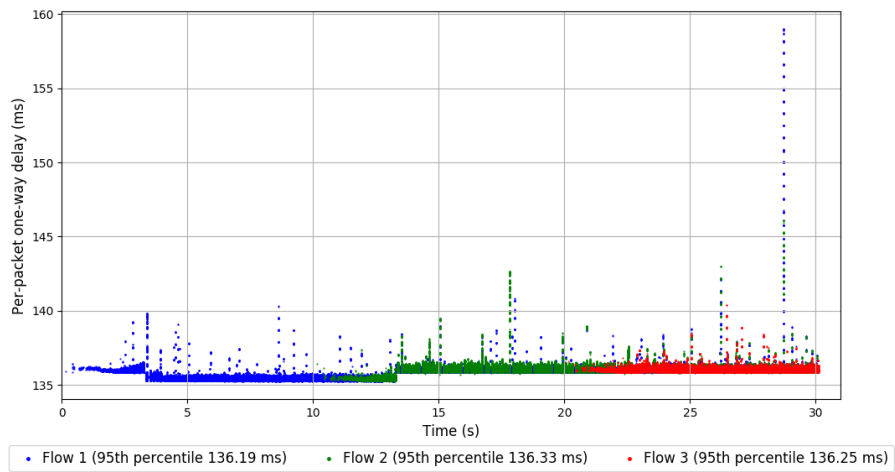
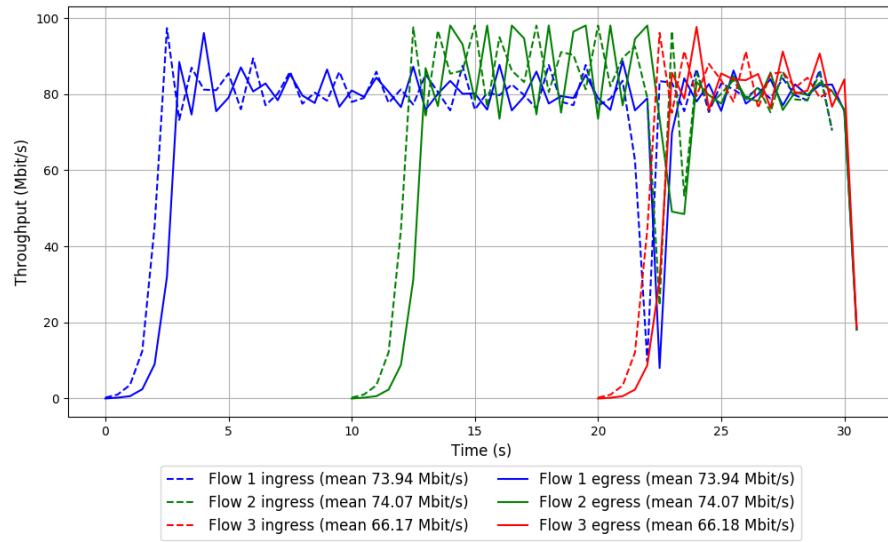


Run 8: Statistics of TCP BBR

Start at: 2018-06-06 09:18:49
End at: 2018-06-06 09:19:19
Local clock offset: -0.467 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2018-06-06 10:38:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 145.19 Mbit/s
95th percentile per-packet one-way delay: 136.261 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 73.94 Mbit/s
95th percentile per-packet one-way delay: 136.186 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 74.07 Mbit/s
95th percentile per-packet one-way delay: 136.330 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 66.18 Mbit/s
95th percentile per-packet one-way delay: 136.252 ms
Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link

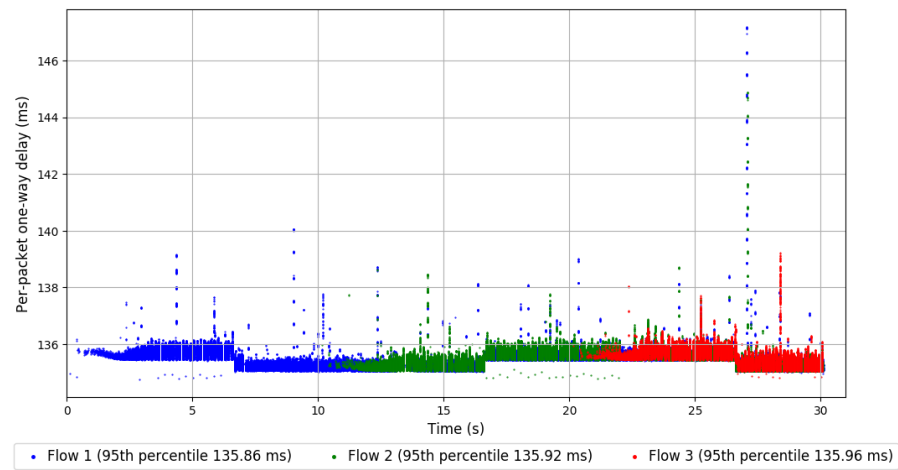
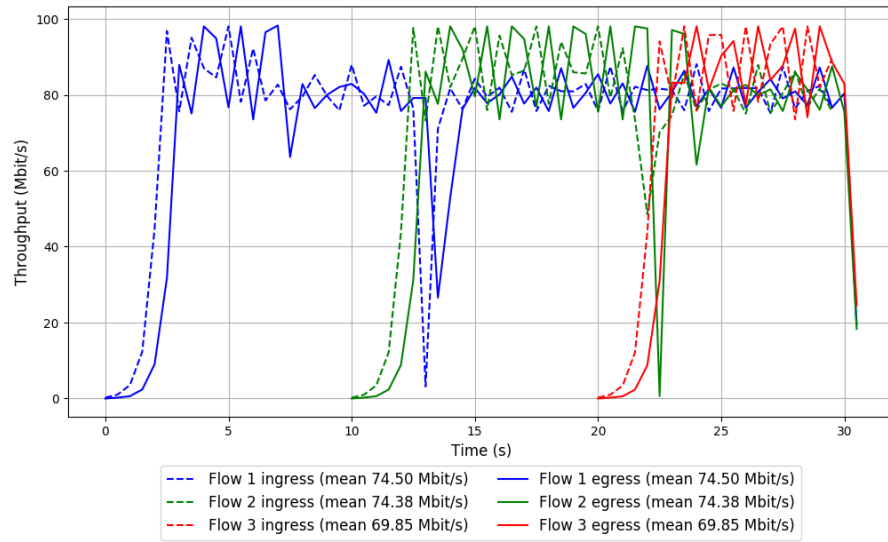


Run 9: Statistics of TCP BBR

Start at: 2018-06-06 09:43:35
End at: 2018-06-06 09:44:05
Local clock offset: -0.075 ms
Remote clock offset: -0.451 ms

Below is generated by plot.py at 2018-06-06 10:40:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 147.08 Mbit/s
95th percentile per-packet one-way delay: 135.898 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 74.50 Mbit/s
95th percentile per-packet one-way delay: 135.862 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 74.38 Mbit/s
95th percentile per-packet one-way delay: 135.917 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 69.85 Mbit/s
95th percentile per-packet one-way delay: 135.963 ms
Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link

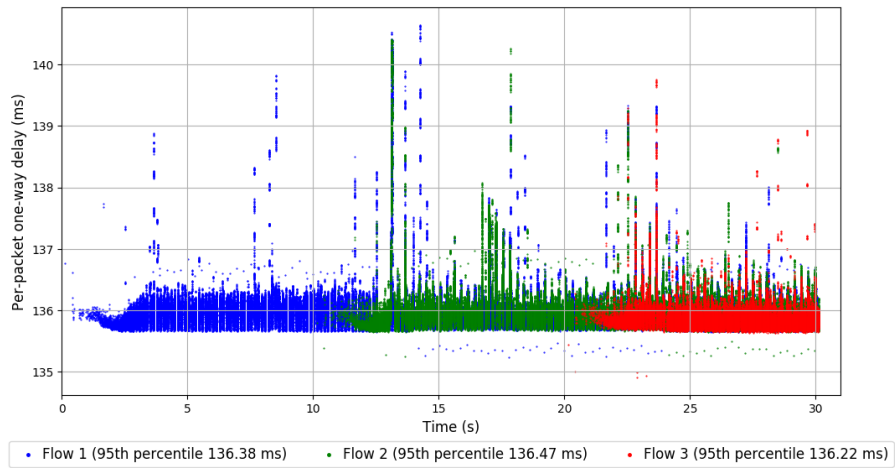
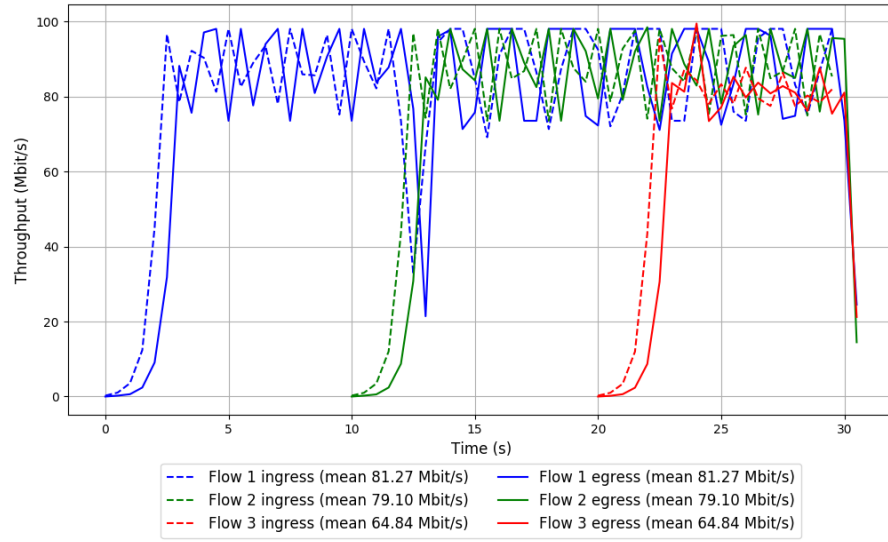


Run 10: Statistics of TCP BBR

Start at: 2018-06-06 10:08:38
End at: 2018-06-06 10:09:08
Local clock offset: -0.132 ms
Remote clock offset: -0.005 ms

Below is generated by plot.py at 2018-06-06 10:40:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 155.30 Mbit/s
95th percentile per-packet one-way delay: 136.394 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 81.27 Mbit/s
95th percentile per-packet one-way delay: 136.383 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 79.10 Mbit/s
95th percentile per-packet one-way delay: 136.470 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 64.84 Mbit/s
95th percentile per-packet one-way delay: 136.222 ms
Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-06-06 06:28:59

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

Local clock offset: -0.178 ms

Remote clock offset: 0.253 ms

Below is generated by plot.py at 2018-06-06 10:45:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 237.08 Mbit/s

95th percentile per-packet one-way delay: 141.784 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 131.59 Mbit/s

95th percentile per-packet one-way delay: 140.164 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 103.57 Mbit/s

95th percentile per-packet one-way delay: 150.907 ms

Loss rate: 0.00%

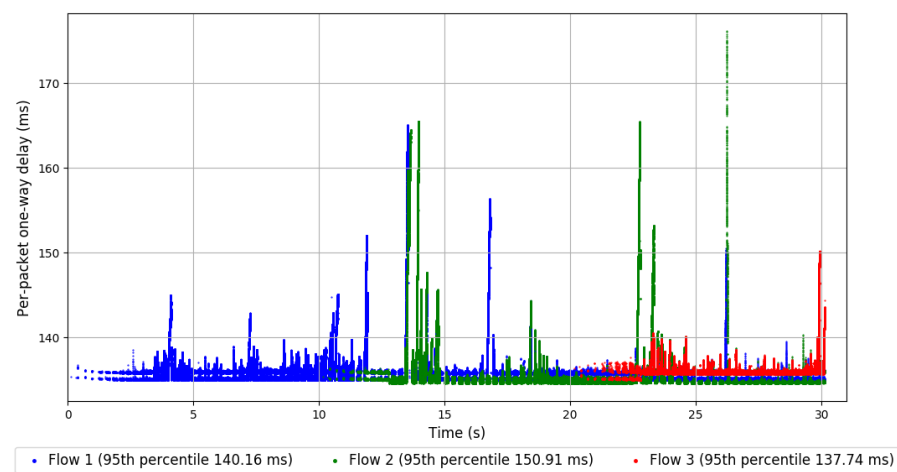
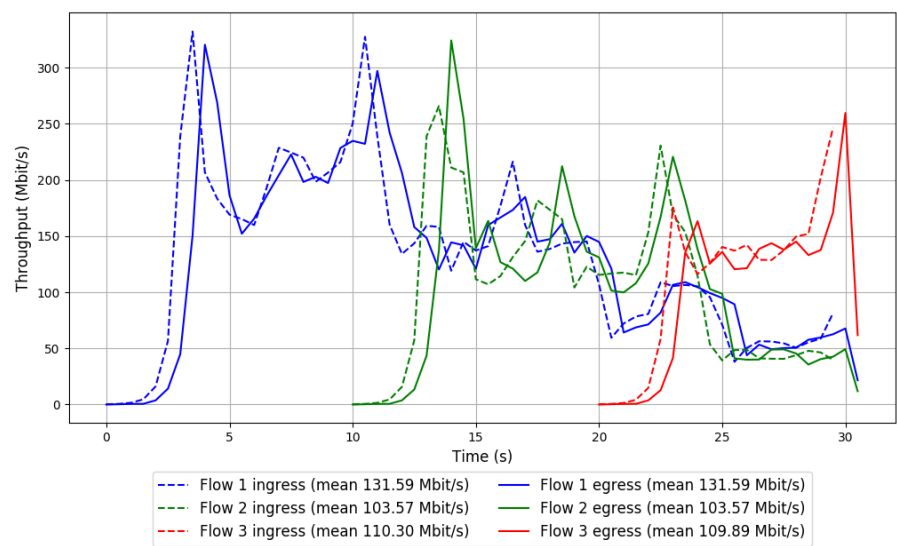
-- Flow 3:

Average throughput: 109.89 Mbit/s

95th percentile per-packet one-way delay: 137.742 ms

Loss rate: 0.36%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-06-06 06:53:48

End at: 2018-06-06 06:54:18

Local clock offset: 0.355 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at 2018-06-06 10:45:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 247.09 Mbit/s

95th percentile per-packet one-way delay: 151.972 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 114.39 Mbit/s

95th percentile per-packet one-way delay: 145.601 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 144.32 Mbit/s

95th percentile per-packet one-way delay: 160.235 ms

Loss rate: 0.00%

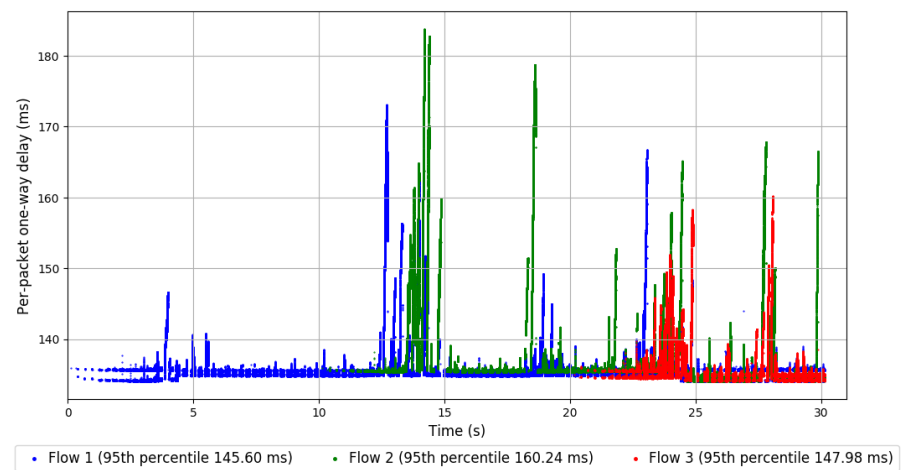
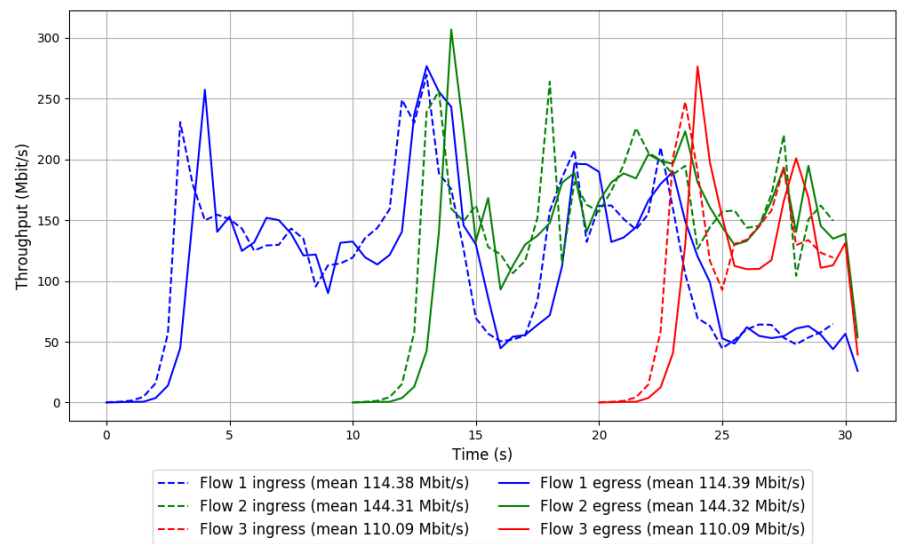
-- Flow 3:

Average throughput: 110.09 Mbit/s

95th percentile per-packet one-way delay: 147.977 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-06-06 07:18:49

End at: 2018-06-06 07:19:19

Local clock offset: -0.131 ms

Remote clock offset: 0.347 ms

Below is generated by plot.py at 2018-06-06 10:45:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 180.20 Mbit/s

95th percentile per-packet one-way delay: 147.485 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 89.52 Mbit/s

95th percentile per-packet one-way delay: 157.514 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 100.64 Mbit/s

95th percentile per-packet one-way delay: 138.423 ms

Loss rate: 0.00%

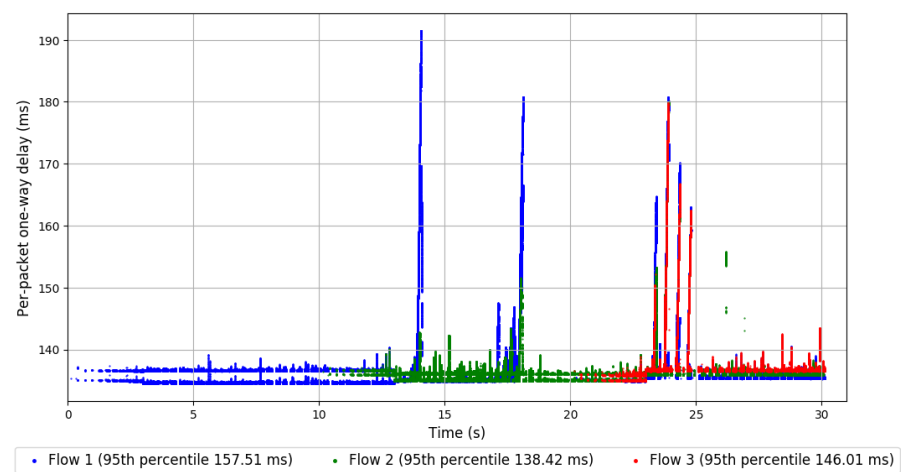
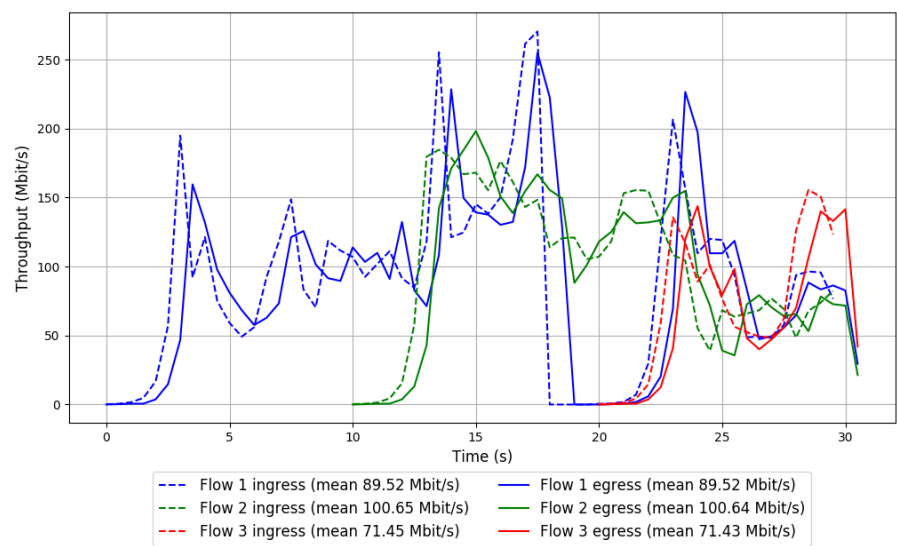
-- Flow 3:

Average throughput: 71.43 Mbit/s

95th percentile per-packet one-way delay: 146.006 ms

Loss rate: 0.04%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-06-06 07:43:17

End at: 2018-06-06 07:43:47

Local clock offset: 0.062 ms

Remote clock offset: 0.368 ms

Below is generated by plot.py at 2018-06-06 10:46:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 281.44 Mbit/s

95th percentile per-packet one-way delay: 164.654 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 175.21 Mbit/s

95th percentile per-packet one-way delay: 155.087 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 83.43 Mbit/s

95th percentile per-packet one-way delay: 176.908 ms

Loss rate: 0.00%

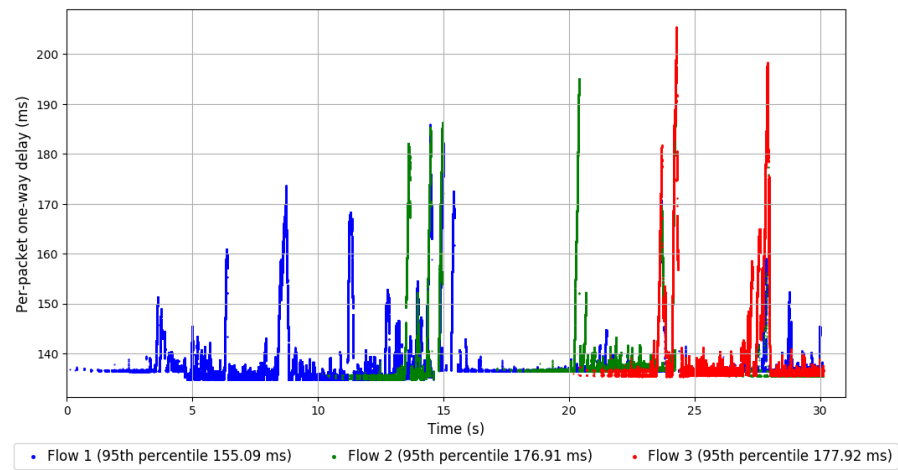
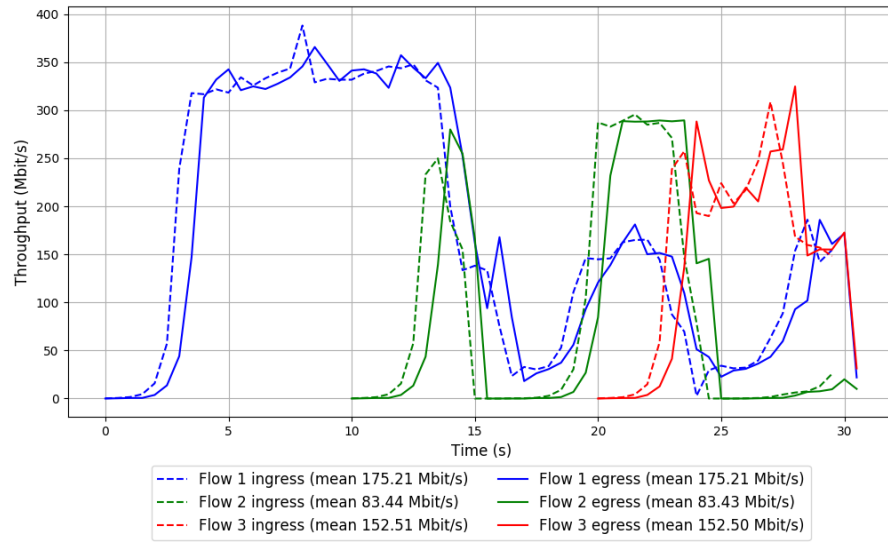
-- Flow 3:

Average throughput: 152.50 Mbit/s

95th percentile per-packet one-way delay: 177.920 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link

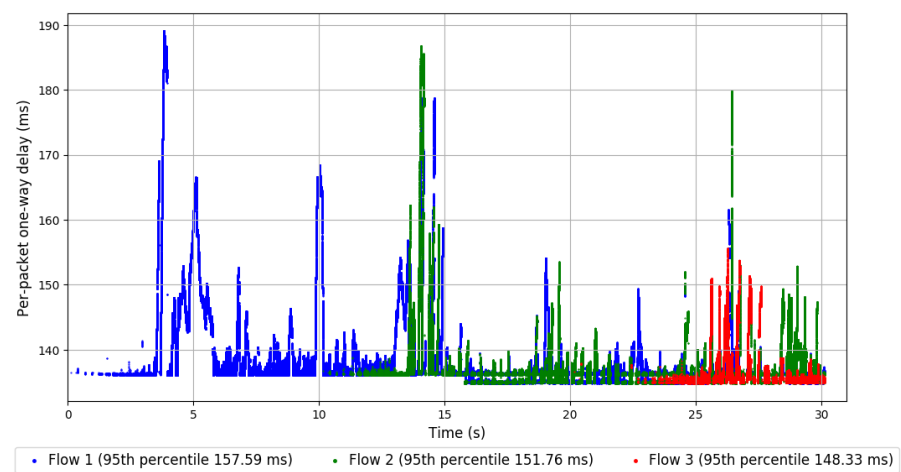
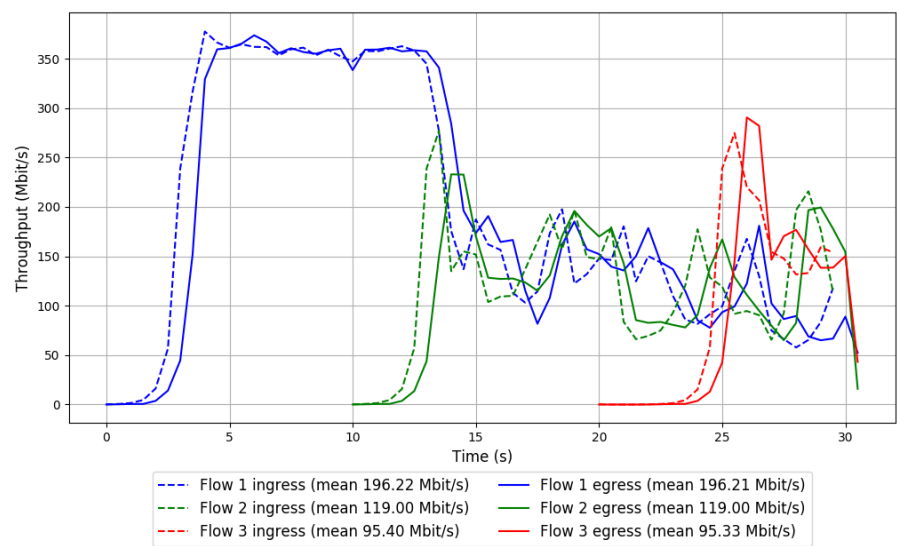


Run 5: Statistics of Copa

Start at: 2018-06-06 08:07:56
End at: 2018-06-06 08:08:26
Local clock offset: -0.028 ms
Remote clock offset: -0.207 ms

Below is generated by plot.py at 2018-06-06 10:47:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 307.16 Mbit/s
95th percentile per-packet one-way delay: 154.479 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 196.21 Mbit/s
95th percentile per-packet one-way delay: 157.594 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 119.00 Mbit/s
95th percentile per-packet one-way delay: 151.764 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 95.33 Mbit/s
95th percentile per-packet one-way delay: 148.333 ms
Loss rate: 0.08%

Run 5: Report of Copa — Data Link

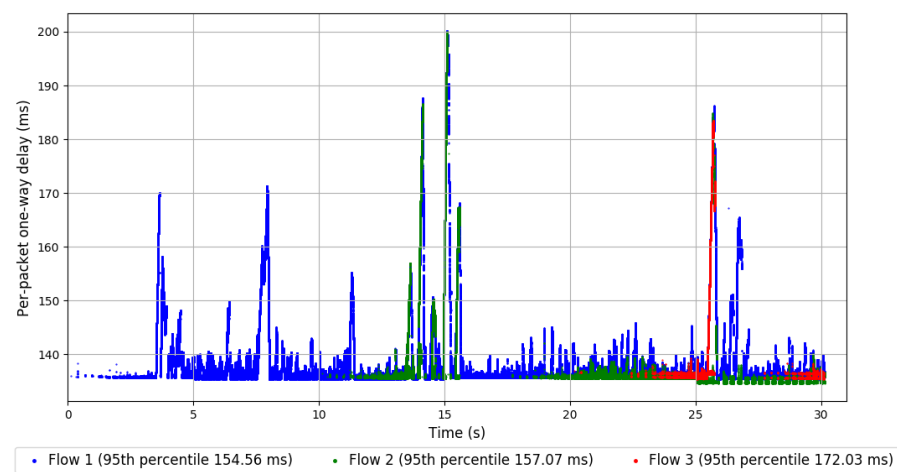
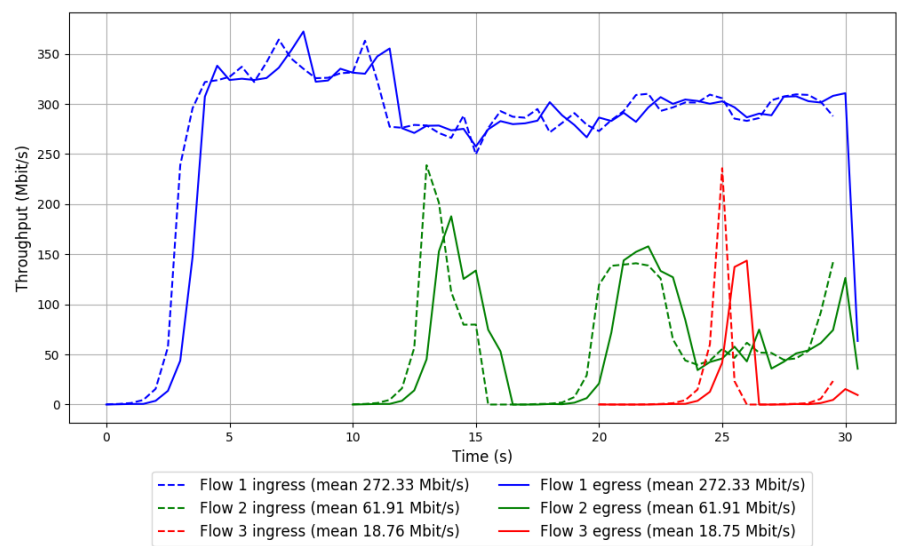


Run 6: Statistics of Copa

Start at: 2018-06-06 08:33:07
End at: 2018-06-06 08:33:37
Local clock offset: -0.053 ms
Remote clock offset: -0.496 ms

Below is generated by plot.py at 2018-06-06 10:48:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 319.78 Mbit/s
95th percentile per-packet one-way delay: 155.254 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 272.33 Mbit/s
95th percentile per-packet one-way delay: 154.562 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 61.91 Mbit/s
95th percentile per-packet one-way delay: 157.068 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 18.75 Mbit/s
95th percentile per-packet one-way delay: 172.027 ms
Loss rate: 0.06%

Run 6: Report of Copa — Data Link

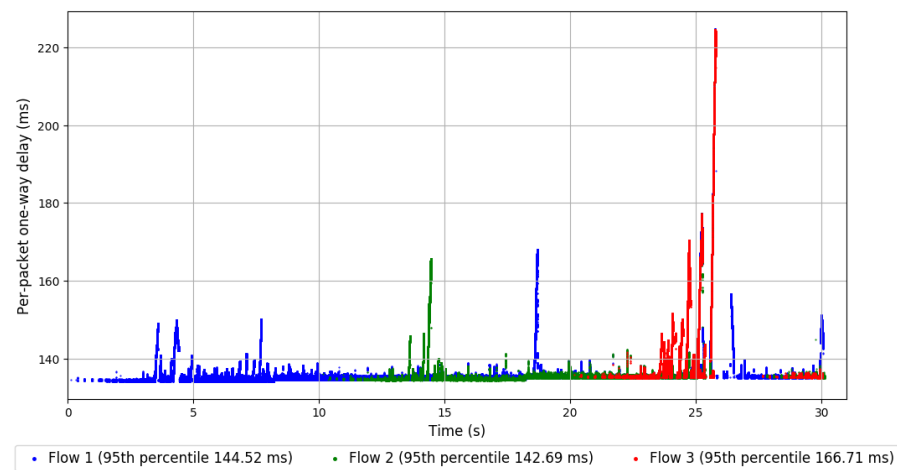
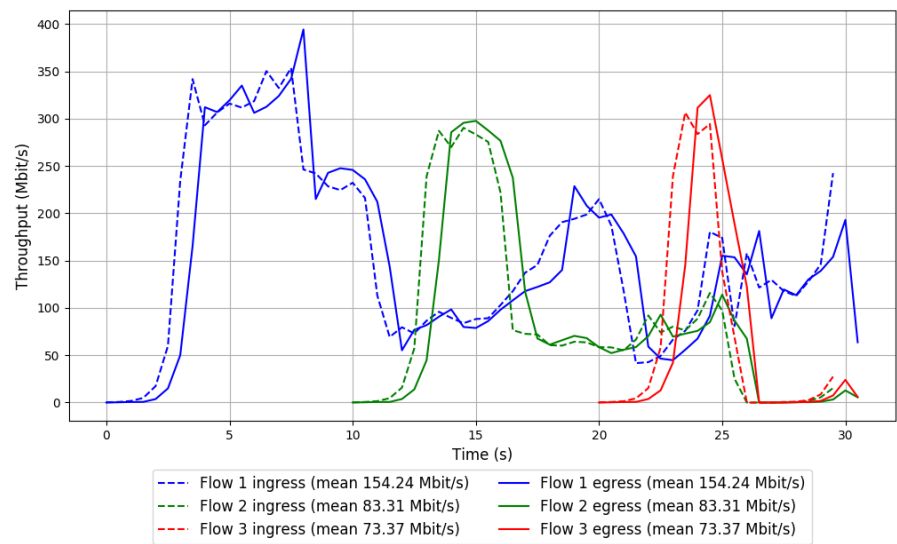


Run 7: Statistics of Copa

Start at: 2018-06-06 08:58:14
End at: 2018-06-06 08:58:44
Local clock offset: 0.242 ms
Remote clock offset: -0.077 ms

Below is generated by plot.py at 2018-06-06 10:48:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 233.90 Mbit/s
95th percentile per-packet one-way delay: 147.267 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 154.24 Mbit/s
95th percentile per-packet one-way delay: 144.520 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 83.31 Mbit/s
95th percentile per-packet one-way delay: 142.694 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 73.37 Mbit/s
95th percentile per-packet one-way delay: 166.712 ms
Loss rate: 0.00%

Run 7: Report of Copa — Data Link

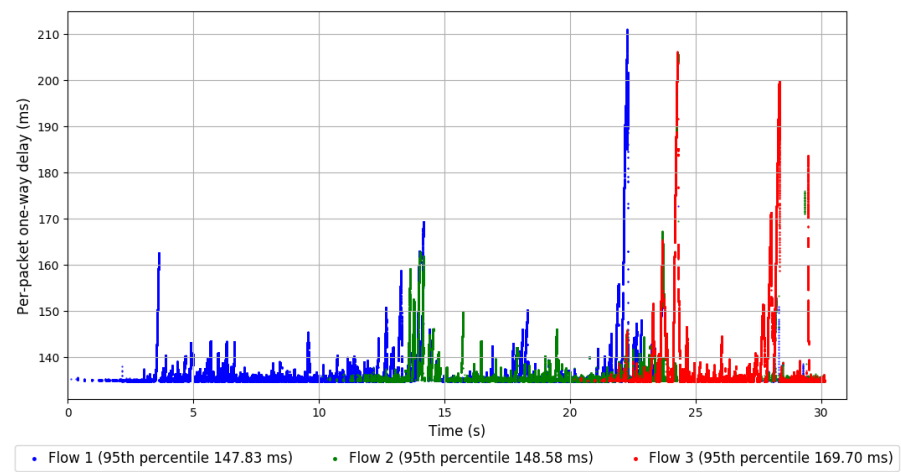
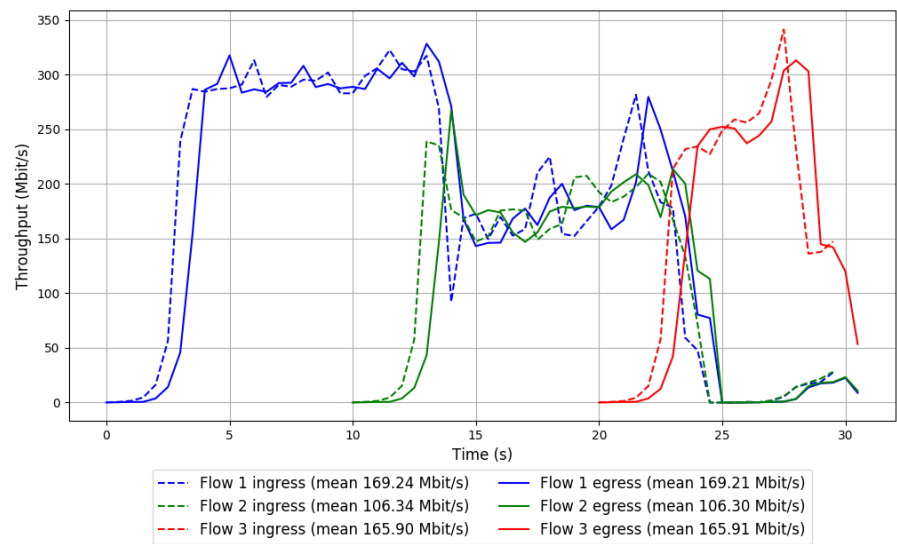


Run 8: Statistics of Copa

Start at: 2018-06-06 09:23:00
End at: 2018-06-06 09:23:30
Local clock offset: 0.129 ms
Remote clock offset: -0.474 ms

Below is generated by plot.py at 2018-06-06 10:50:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 295.10 Mbit/s
95th percentile per-packet one-way delay: 152.300 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 169.21 Mbit/s
95th percentile per-packet one-way delay: 147.831 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 106.30 Mbit/s
95th percentile per-packet one-way delay: 148.584 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 165.91 Mbit/s
95th percentile per-packet one-way delay: 169.700 ms
Loss rate: 0.00%

Run 8: Report of Copa — Data Link

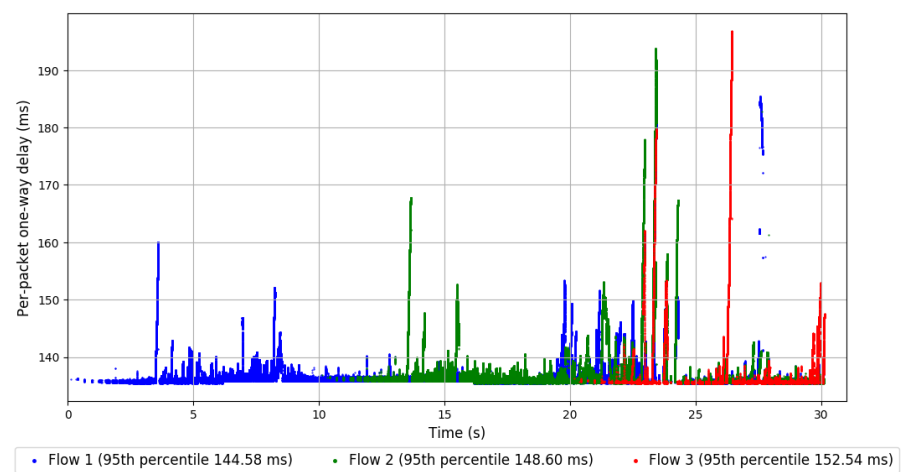
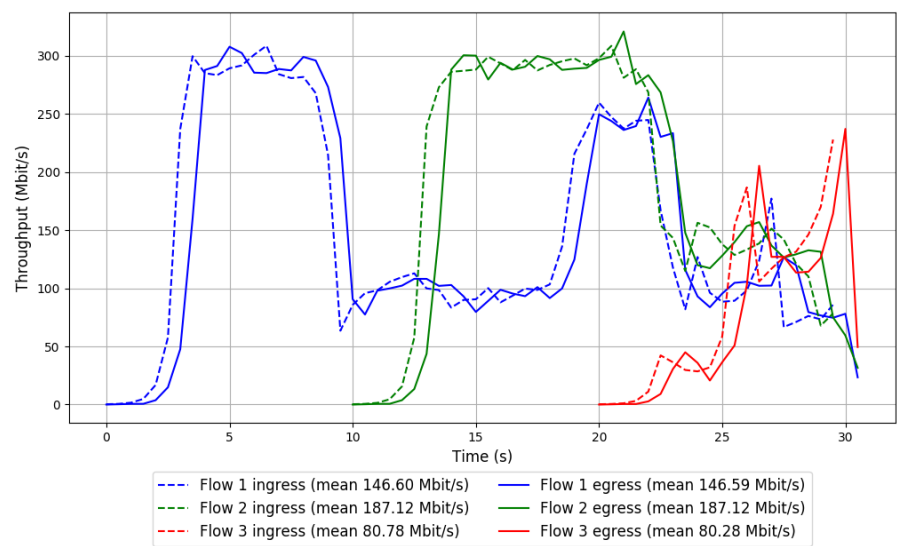


Run 9: Statistics of Copa

Start at: 2018-06-06 09:47:56
End at: 2018-06-06 09:48:26
Local clock offset: -0.088 ms
Remote clock offset: -0.054 ms

Below is generated by plot.py at 2018-06-06 10:53:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 297.78 Mbit/s
95th percentile per-packet one-way delay: 147.283 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 146.59 Mbit/s
95th percentile per-packet one-way delay: 144.577 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 187.12 Mbit/s
95th percentile per-packet one-way delay: 148.597 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 80.28 Mbit/s
95th percentile per-packet one-way delay: 152.538 ms
Loss rate: 0.62%

Run 9: Report of Copa — Data Link

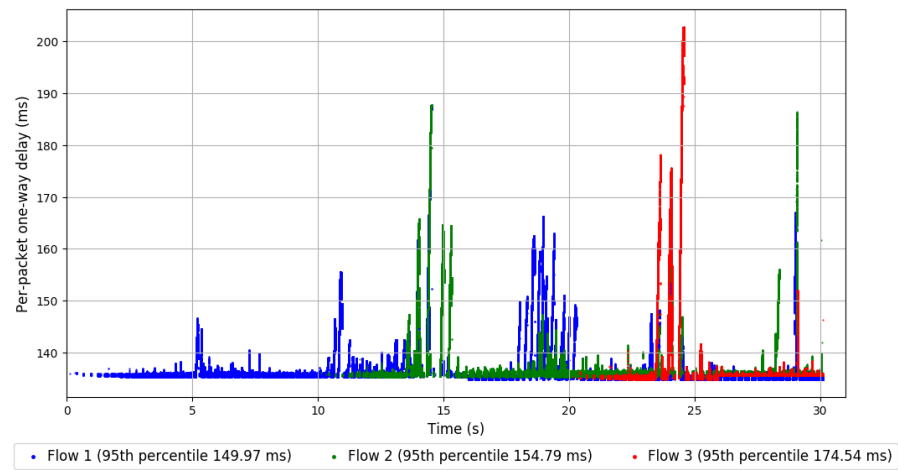
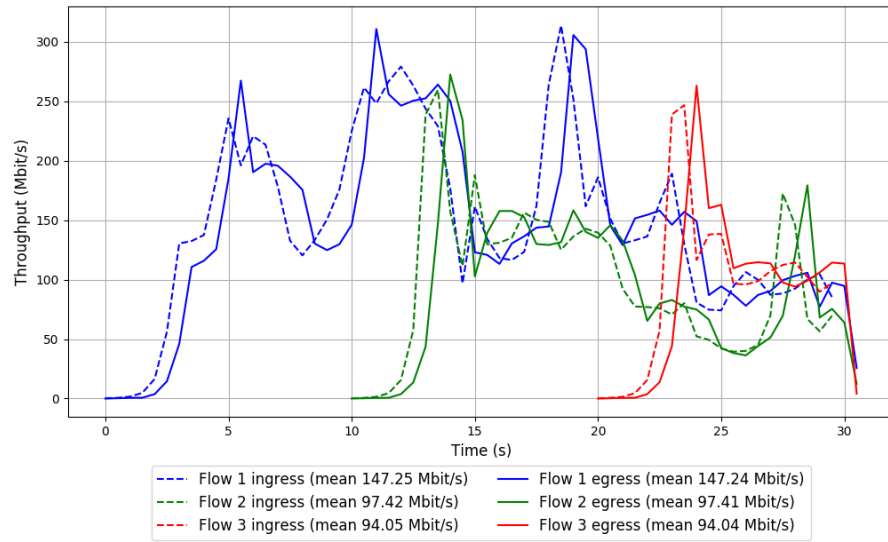


Run 10: Statistics of Copa

Start at: 2018-06-06 10:12:56
End at: 2018-06-06 10:13:26
Local clock offset: -0.181 ms
Remote clock offset: -0.365 ms

Below is generated by plot.py at 2018-06-06 10:53:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 243.23 Mbit/s
95th percentile per-packet one-way delay: 154.808 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 147.24 Mbit/s
95th percentile per-packet one-way delay: 149.965 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 97.41 Mbit/s
95th percentile per-packet one-way delay: 154.793 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 94.04 Mbit/s
95th percentile per-packet one-way delay: 174.541 ms
Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-06-06 06:30:40

End at: 2018-06-06 06:31:10

Local clock offset: -0.063 ms

Remote clock offset: 0.304 ms

Below is generated by plot.py at 2018-06-06 10:53:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 147.51 Mbit/s

95th percentile per-packet one-way delay: 146.120 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 84.57 Mbit/s

95th percentile per-packet one-way delay: 146.698 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 75.42 Mbit/s

95th percentile per-packet one-way delay: 147.736 ms

Loss rate: 0.00%

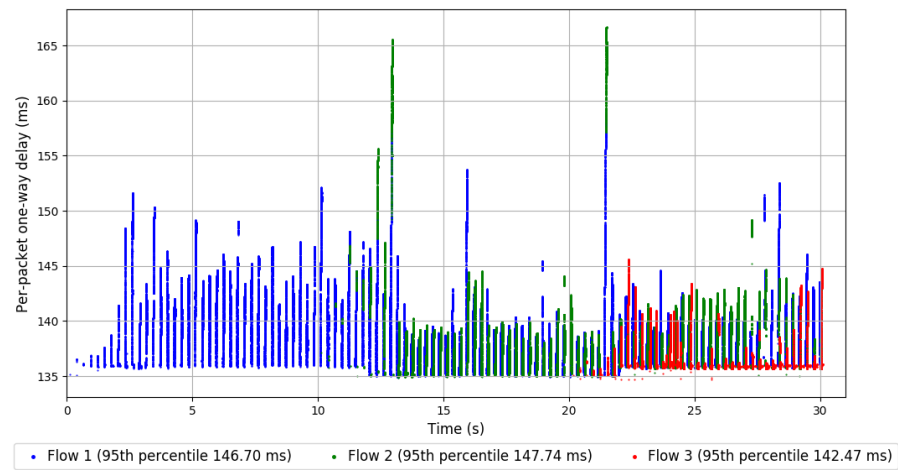
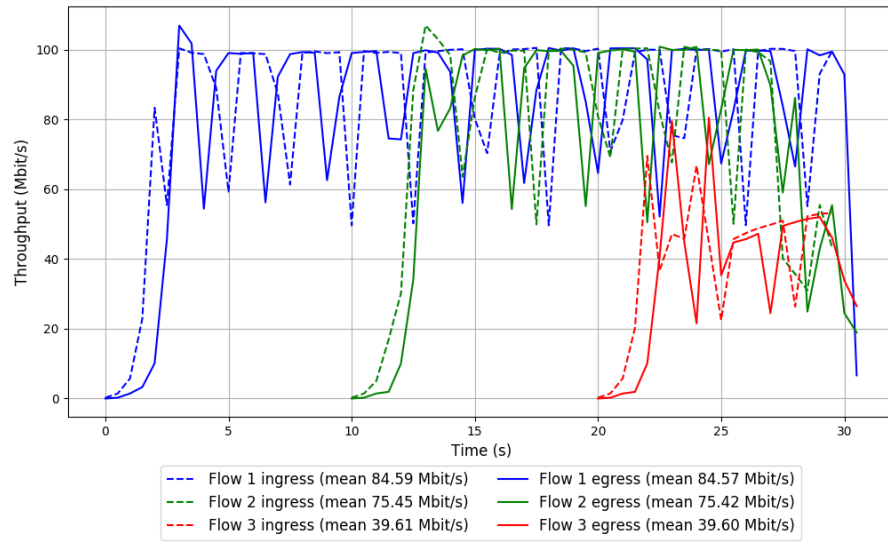
-- Flow 3:

Average throughput: 39.60 Mbit/s

95th percentile per-packet one-way delay: 142.466 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-06-06 06:55:29

End at: 2018-06-06 06:55:59

Local clock offset: -0.271 ms

Remote clock offset: 0.325 ms

Below is generated by plot.py at 2018-06-06 10:53:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 98.24 Mbit/s

95th percentile per-packet one-way delay: 145.483 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 60.23 Mbit/s

95th percentile per-packet one-way delay: 144.488 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 56.86 Mbit/s

95th percentile per-packet one-way delay: 146.478 ms

Loss rate: 0.00%

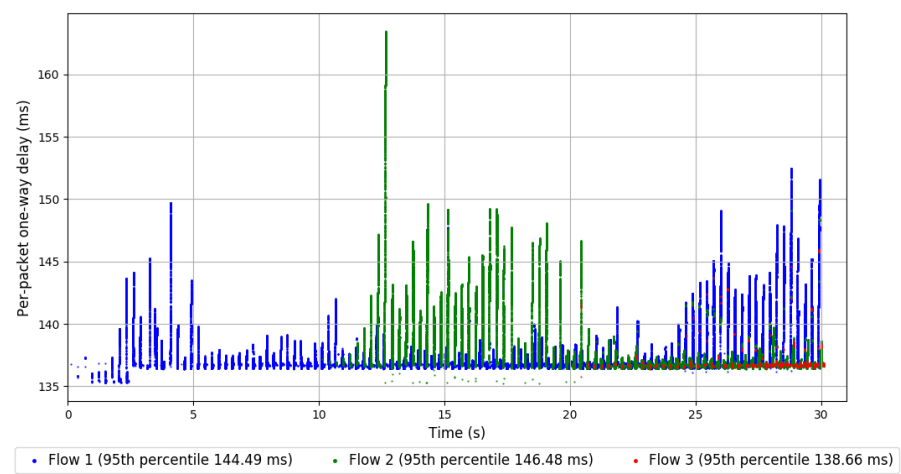
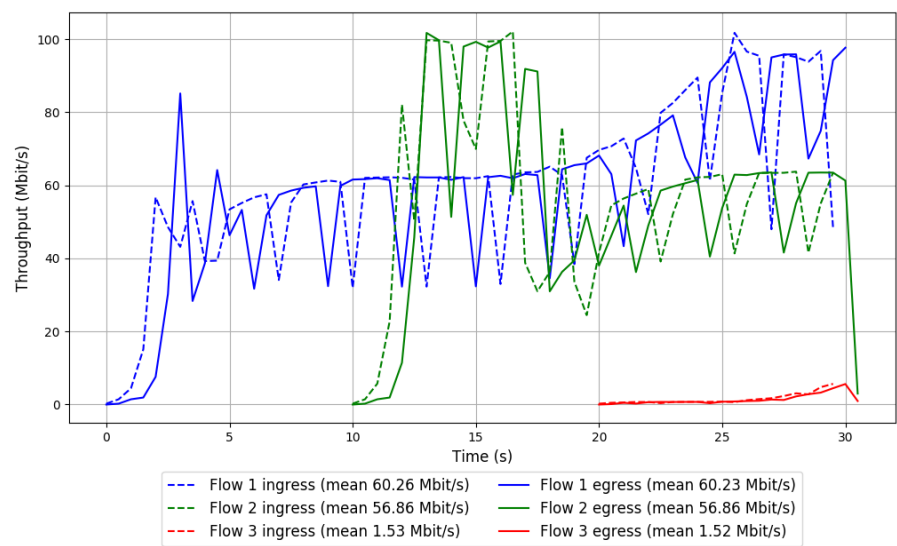
-- Flow 3:

Average throughput: 1.52 Mbit/s

95th percentile per-packet one-way delay: 138.661 ms

Loss rate: 0.39%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-06-06 07:20:24

End at: 2018-06-06 07:20:54

Local clock offset: 0.091 ms

Remote clock offset: 0.766 ms

Below is generated by plot.py at 2018-06-06 10:53:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.00 Mbit/s

95th percentile per-packet one-way delay: 146.428 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 61.20 Mbit/s

95th percentile per-packet one-way delay: 146.506 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 42.31 Mbit/s

95th percentile per-packet one-way delay: 145.845 ms

Loss rate: 0.07%

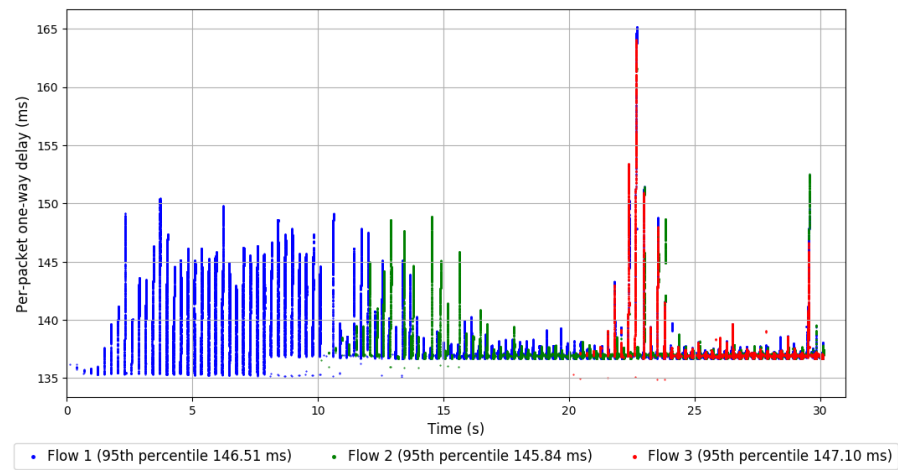
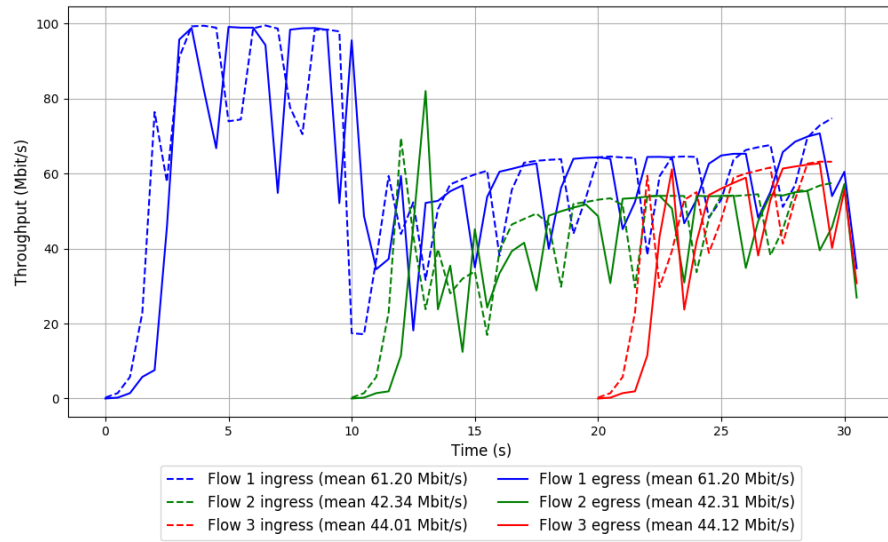
-- Flow 3:

Average throughput: 44.12 Mbit/s

95th percentile per-packet one-way delay: 147.099 ms

Loss rate: 0.04%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-06-06 07:45:03

End at: 2018-06-06 07:45:33

Local clock offset: -0.281 ms

Remote clock offset: 0.264 ms

Below is generated by plot.py at 2018-06-06 10:53:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.58 Mbit/s

95th percentile per-packet one-way delay: 148.330 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 83.24 Mbit/s

95th percentile per-packet one-way delay: 147.806 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 17.10 Mbit/s

95th percentile per-packet one-way delay: 157.299 ms

Loss rate: 0.03%

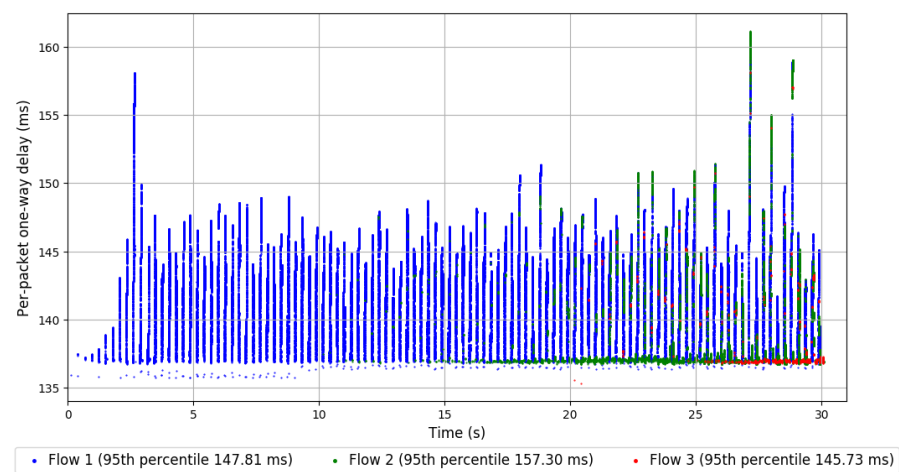
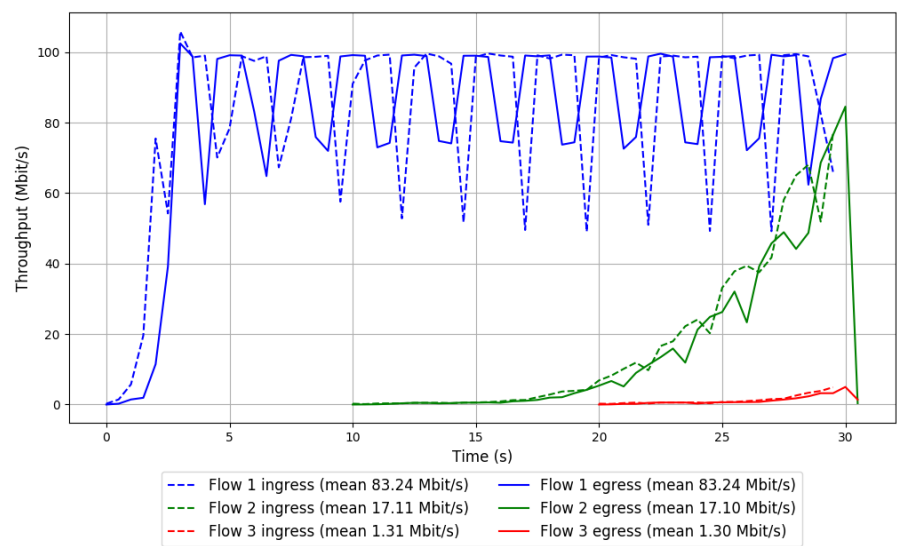
-- Flow 3:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 145.726 ms

Loss rate: 0.74%

Run 4: Report of TCP Cubic — Data Link

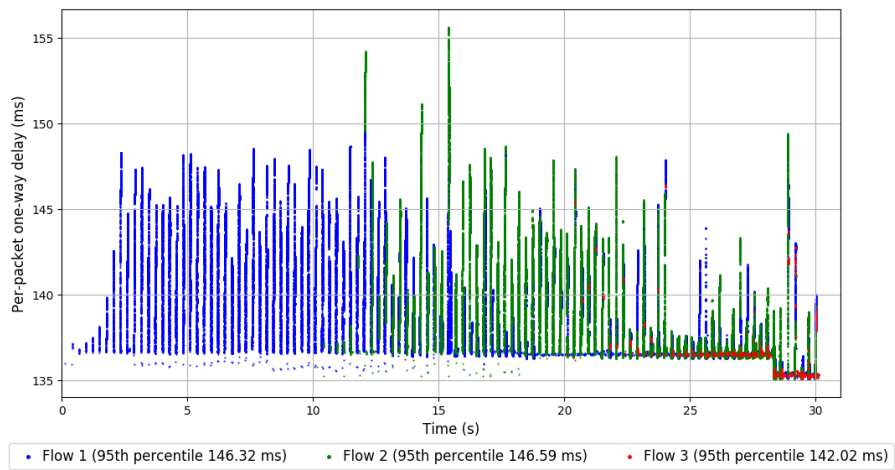
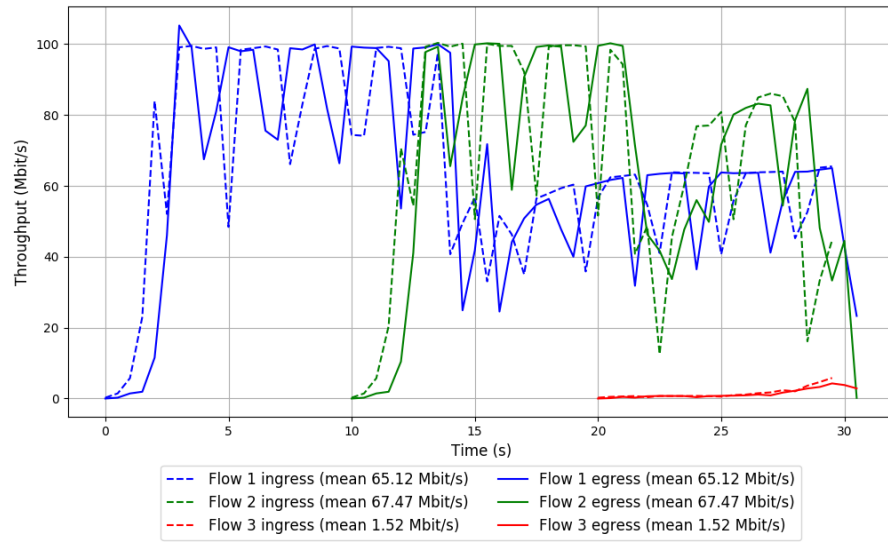


Run 5: Statistics of TCP Cubic

Start at: 2018-06-06 08:09:44
End at: 2018-06-06 08:10:14
Local clock offset: -0.205 ms
Remote clock offset: -0.189 ms

Below is generated by plot.py at 2018-06-06 10:53:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 110.53 Mbit/s
95th percentile per-packet one-way delay: 146.388 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 65.12 Mbit/s
95th percentile per-packet one-way delay: 146.317 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 67.47 Mbit/s
95th percentile per-packet one-way delay: 146.591 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.52 Mbit/s
95th percentile per-packet one-way delay: 142.021 ms
Loss rate: 0.40%

Run 5: Report of TCP Cubic — Data Link

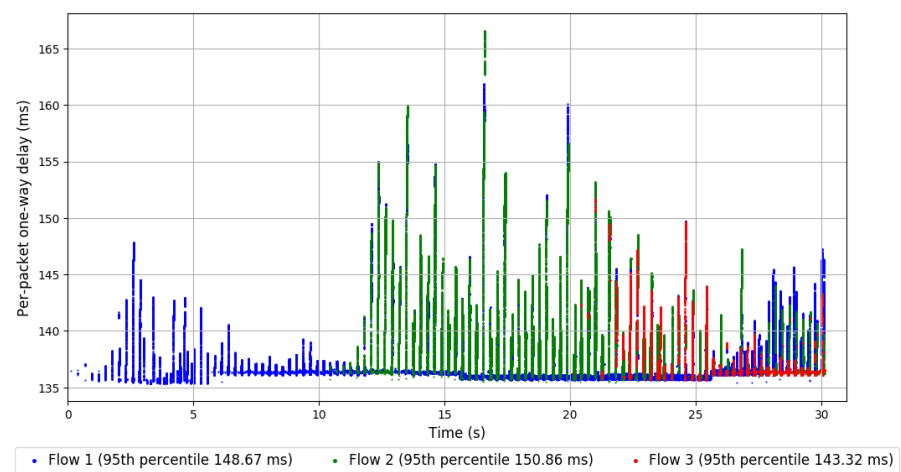
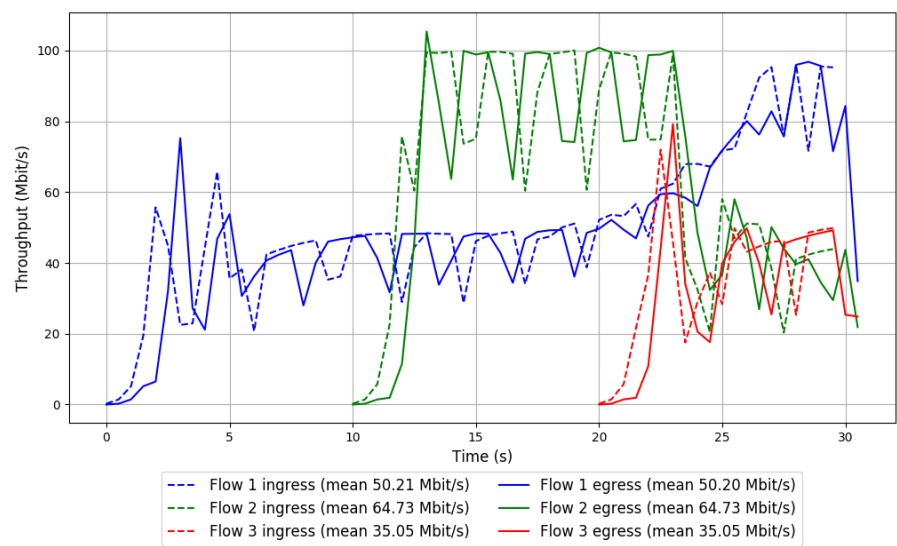


Run 6: Statistics of TCP Cubic

Start at: 2018-06-06 08:34:56
End at: 2018-06-06 08:35:26
Local clock offset: -0.312 ms
Remote clock offset: -0.099 ms

Below is generated by plot.py at 2018-06-06 10:53:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 104.93 Mbit/s
95th percentile per-packet one-way delay: 149.478 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.20 Mbit/s
95th percentile per-packet one-way delay: 148.674 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 64.73 Mbit/s
95th percentile per-packet one-way delay: 150.862 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 35.05 Mbit/s
95th percentile per-packet one-way delay: 143.316 ms
Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link

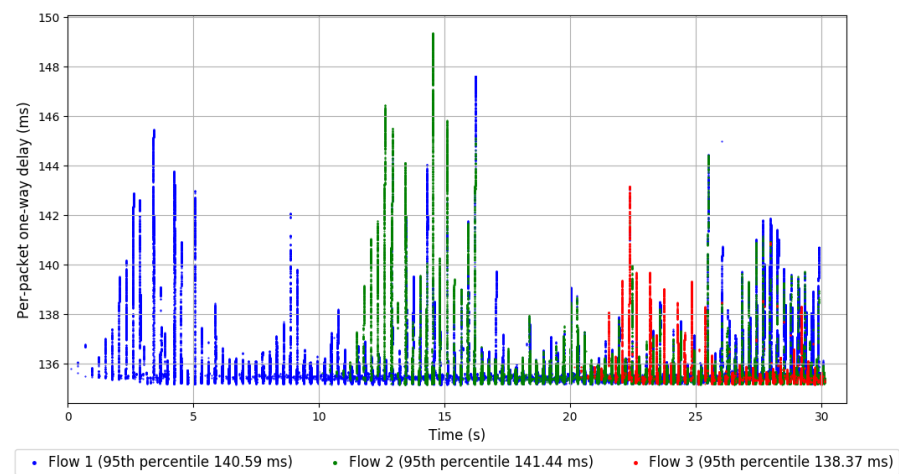
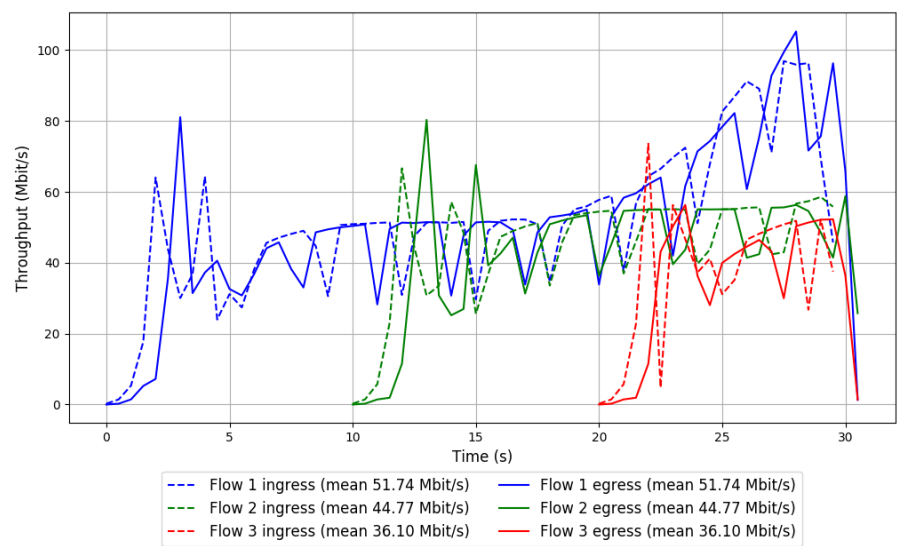


Run 7: Statistics of TCP Cubic

Start at: 2018-06-06 08:59:56
End at: 2018-06-06 09:00:26
Local clock offset: -0.206 ms
Remote clock offset: -0.482 ms

Below is generated by plot.py at 2018-06-06 10:53:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.50 Mbit/s
95th percentile per-packet one-way delay: 140.562 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 51.74 Mbit/s
95th percentile per-packet one-way delay: 140.587 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 44.77 Mbit/s
95th percentile per-packet one-way delay: 141.441 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 36.10 Mbit/s
95th percentile per-packet one-way delay: 138.365 ms
Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link

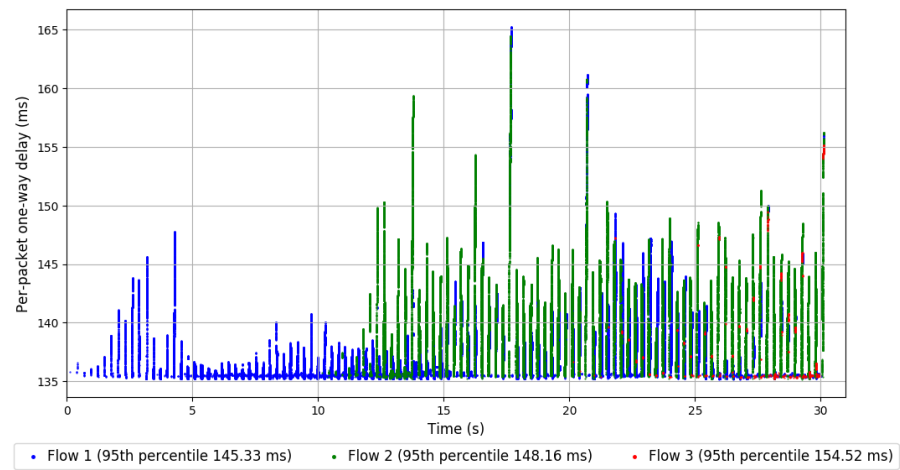
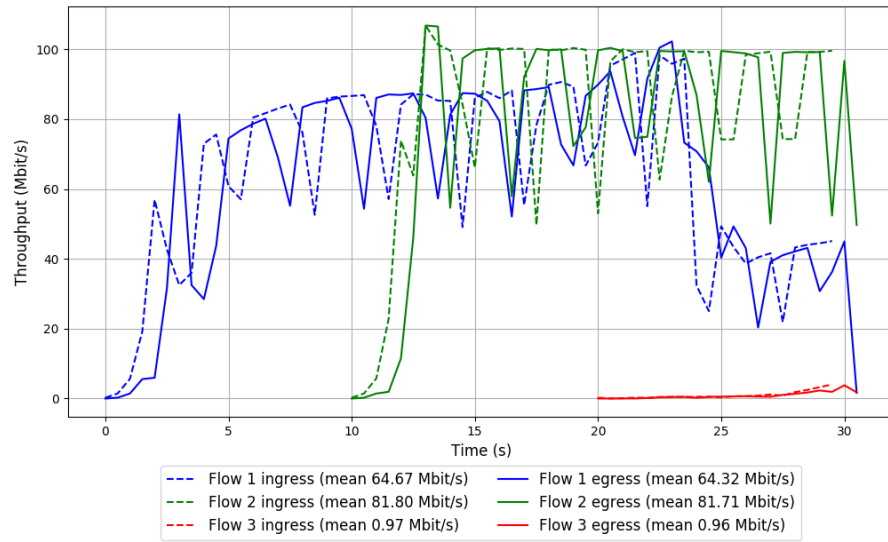


Run 8: Statistics of TCP Cubic

Start at: 2018-06-06 09:24:48
End at: 2018-06-06 09:25:18
Local clock offset: -0.216 ms
Remote clock offset: -0.438 ms

Below is generated by plot.py at 2018-06-06 10:53:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 119.07 Mbit/s
95th percentile per-packet one-way delay: 147.232 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 64.32 Mbit/s
95th percentile per-packet one-way delay: 145.332 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 81.71 Mbit/s
95th percentile per-packet one-way delay: 148.158 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.96 Mbit/s
95th percentile per-packet one-way delay: 154.521 ms
Loss rate: 1.98%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-06-06 09:49:44

End at: 2018-06-06 09:50:14

Local clock offset: -0.142 ms

Remote clock offset: 0.355 ms

Below is generated by plot.py at 2018-06-06 10:53:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 133.13 Mbit/s

95th percentile per-packet one-way delay: 147.012 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 84.26 Mbit/s

95th percentile per-packet one-way delay: 147.809 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 55.85 Mbit/s

95th percentile per-packet one-way delay: 143.938 ms

Loss rate: 0.00%

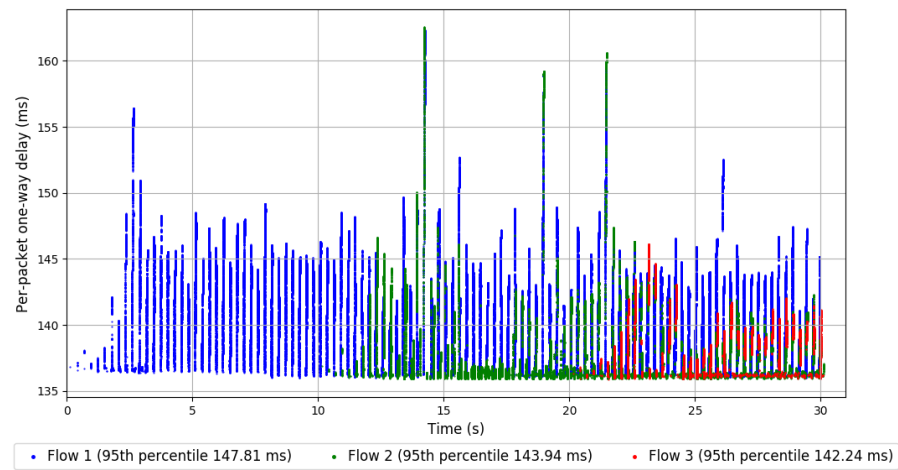
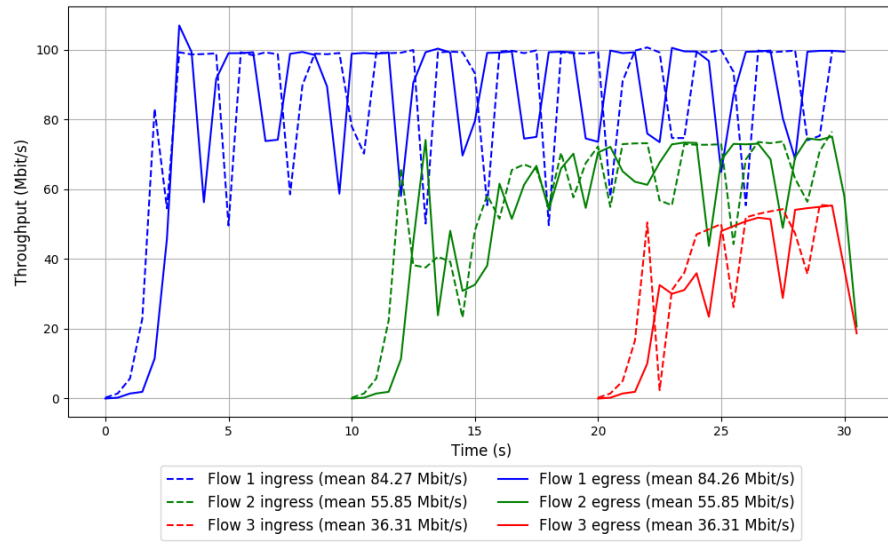
-- Flow 3:

Average throughput: 36.31 Mbit/s

95th percentile per-packet one-way delay: 142.242 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link

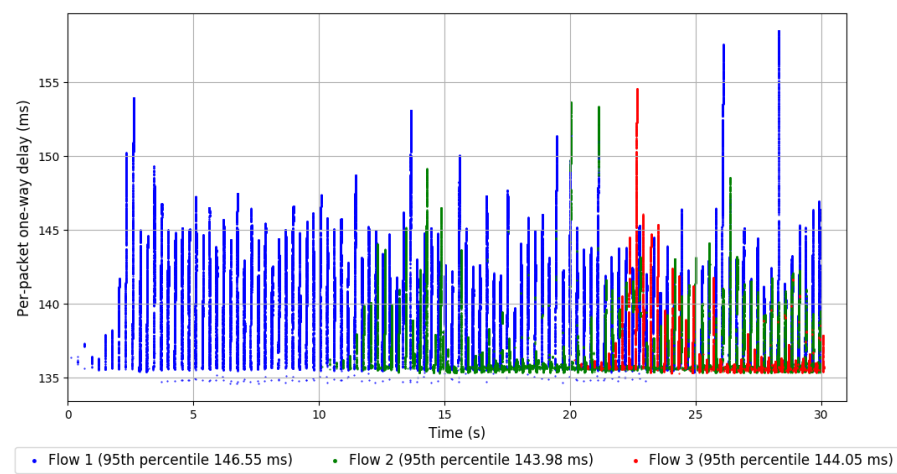
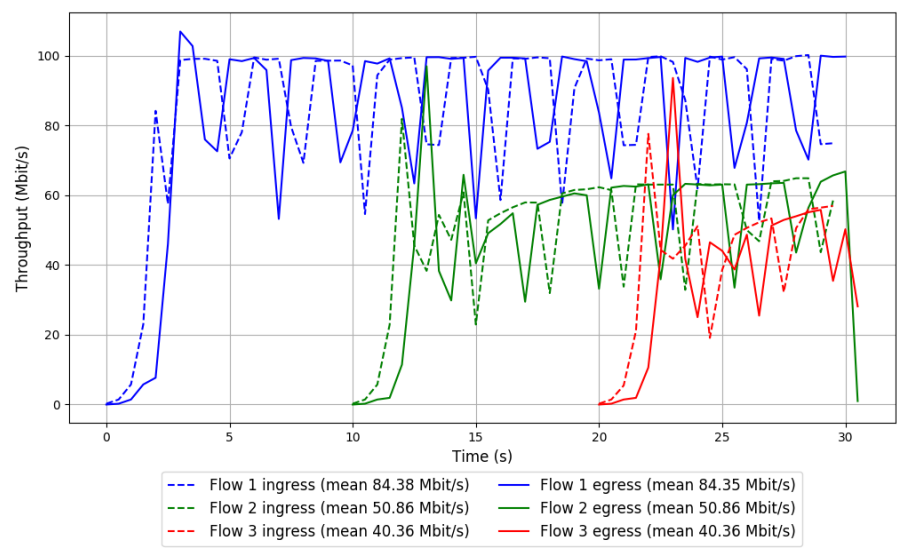


Run 10: Statistics of TCP Cubic

Start at: 2018-06-06 10:14:38
End at: 2018-06-06 10:15:08
Local clock offset: 0.158 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2018-06-06 10:53:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 131.17 Mbit/s
95th percentile per-packet one-way delay: 146.059 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.35 Mbit/s
95th percentile per-packet one-way delay: 146.550 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 50.86 Mbit/s
95th percentile per-packet one-way delay: 143.984 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 40.36 Mbit/s
95th percentile per-packet one-way delay: 144.047 ms
Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-06-06 06:19:24

End at: 2018-06-06 06:19:54

Local clock offset: 0.064 ms

Remote clock offset: 0.231 ms

Below is generated by plot.py at 2018-06-06 11:13:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 1213.14 Mbit/s

95th percentile per-packet one-way delay: 257.380 ms

Loss rate: 1.99%

-- Flow 1:

Average throughput: 664.56 Mbit/s

95th percentile per-packet one-way delay: 218.994 ms

Loss rate: 2.75%

-- Flow 2:

Average throughput: 618.85 Mbit/s

95th percentile per-packet one-way delay: 324.813 ms

Loss rate: 1.20%

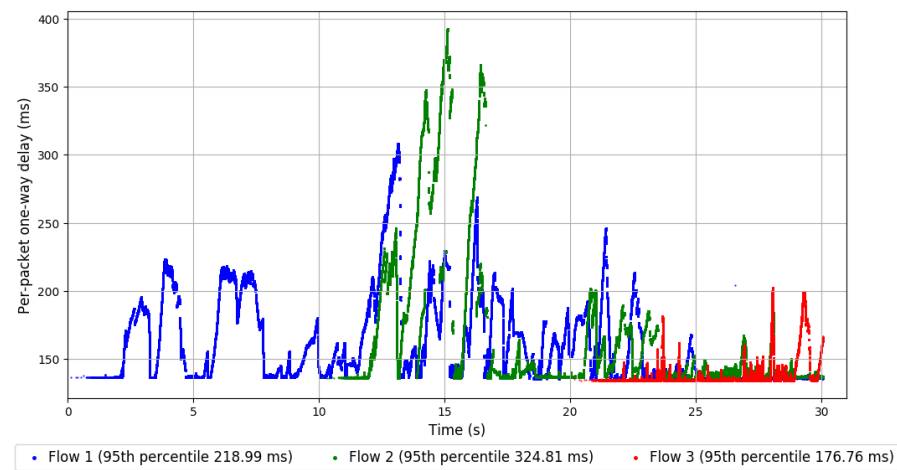
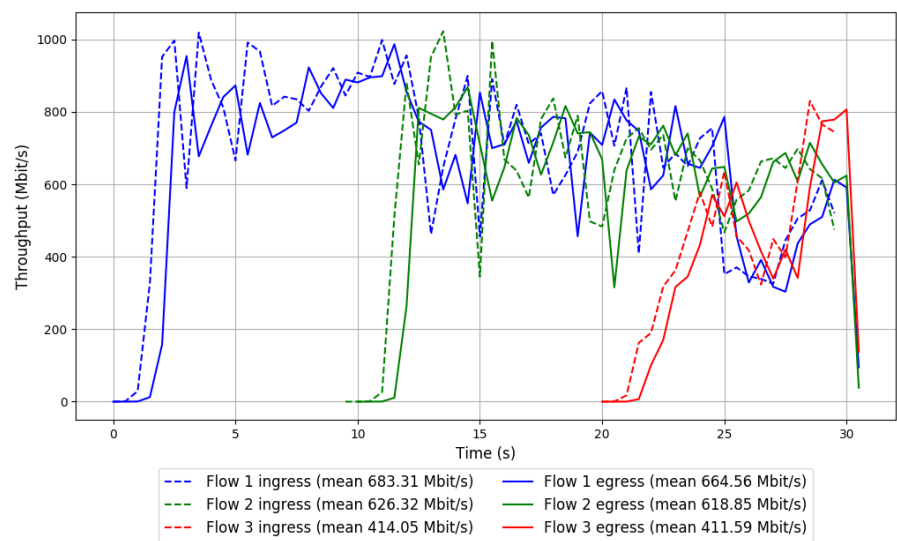
-- Flow 3:

Average throughput: 411.59 Mbit/s

95th percentile per-packet one-way delay: 176.756 ms

Loss rate: 0.58%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-06-06 06:44:16

End at: 2018-06-06 06:44:46

Local clock offset: -0.359 ms

Remote clock offset: 0.31 ms

Below is generated by plot.py at 2018-06-06 11:13:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 1108.69 Mbit/s

95th percentile per-packet one-way delay: 294.451 ms

Loss rate: 1.63%

-- Flow 1:

Average throughput: 567.38 Mbit/s

95th percentile per-packet one-way delay: 308.064 ms

Loss rate: 2.16%

-- Flow 2:

Average throughput: 544.07 Mbit/s

95th percentile per-packet one-way delay: 300.582 ms

Loss rate: 0.24%

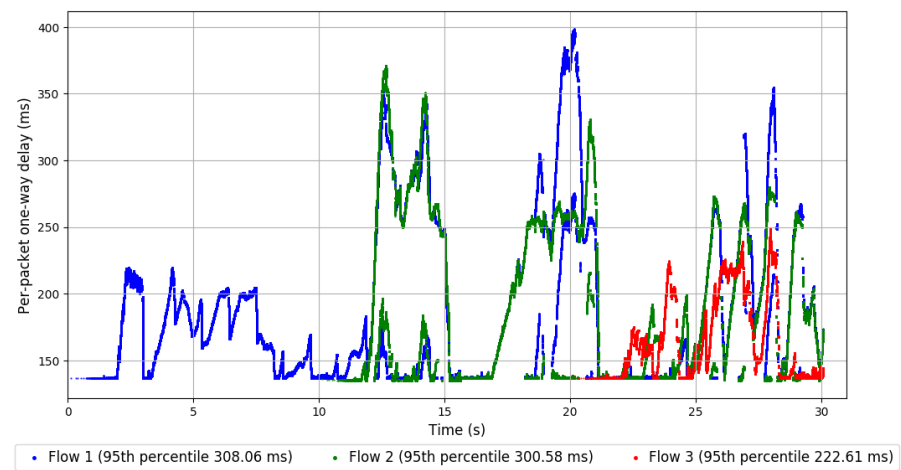
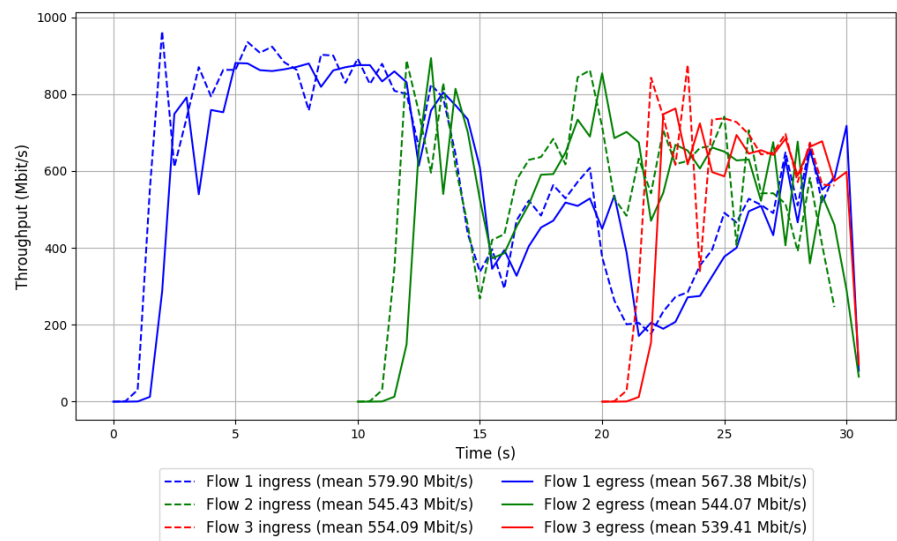
-- Flow 3:

Average throughput: 539.41 Mbit/s

95th percentile per-packet one-way delay: 222.606 ms

Loss rate: 2.67%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-06-06 07:08:55

End at: 2018-06-06 07:09:25

Local clock offset: -0.069 ms

Remote clock offset: 0.299 ms

Below is generated by plot.py at 2018-06-06 11:13:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 1154.88 Mbit/s

95th percentile per-packet one-way delay: 282.674 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 619.41 Mbit/s

95th percentile per-packet one-way delay: 278.420 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 544.41 Mbit/s

95th percentile per-packet one-way delay: 306.542 ms

Loss rate: 0.79%

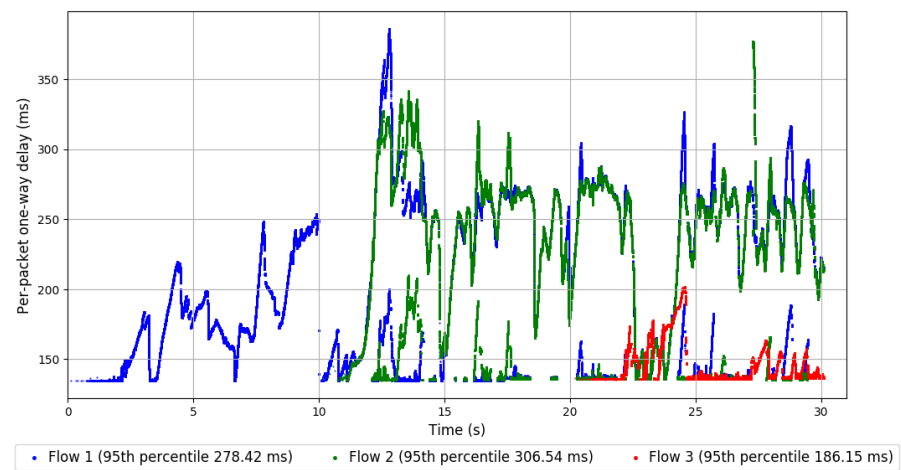
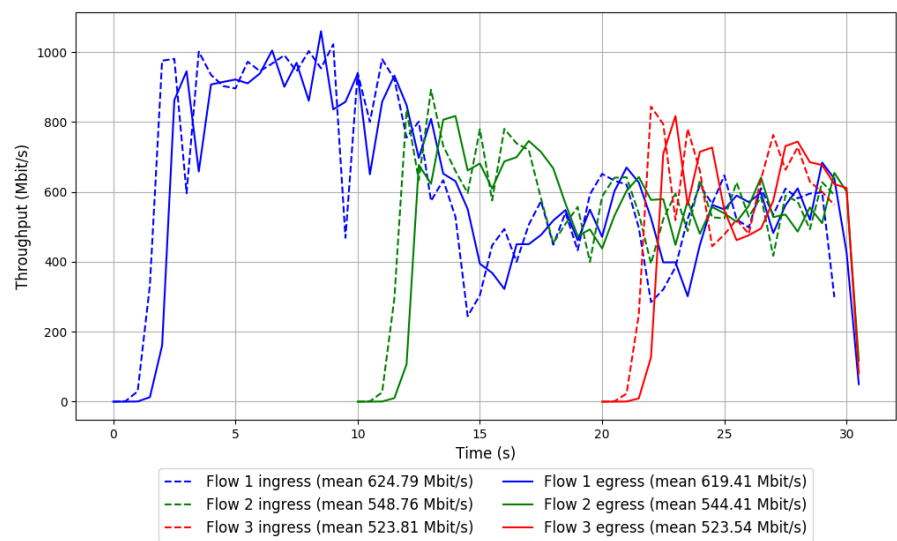
-- Flow 3:

Average throughput: 523.54 Mbit/s

95th percentile per-packet one-way delay: 186.151 ms

Loss rate: 0.03%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-06-06 07:33:40

End at: 2018-06-06 07:34:10

Local clock offset: -0.232 ms

Remote clock offset: 0.43 ms

Below is generated by plot.py at 2018-06-06 11:15:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 1214.84 Mbit/s

95th percentile per-packet one-way delay: 190.041 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 656.10 Mbit/s

95th percentile per-packet one-way delay: 200.720 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 597.28 Mbit/s

95th percentile per-packet one-way delay: 165.708 ms

Loss rate: 0.01%

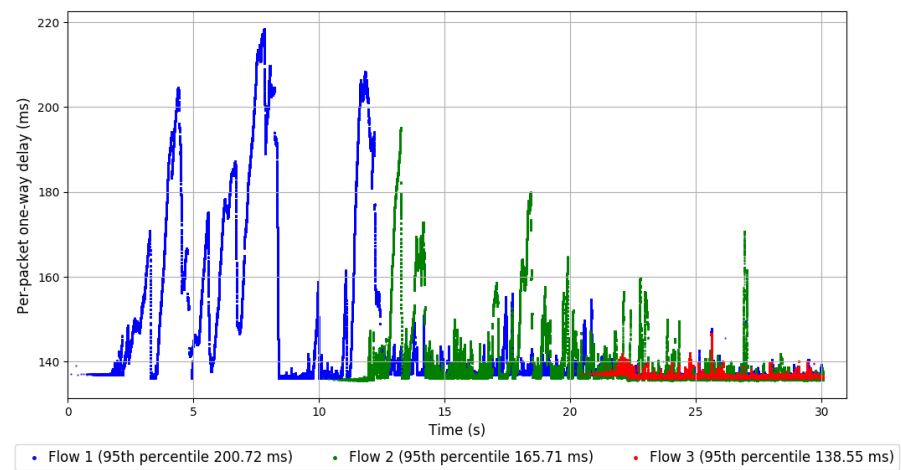
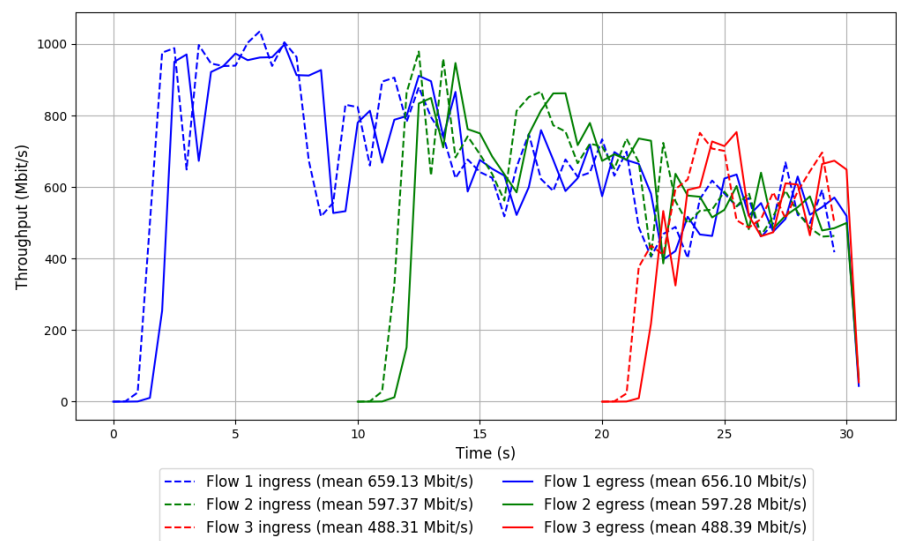
-- Flow 3:

Average throughput: 488.39 Mbit/s

95th percentile per-packet one-way delay: 138.547 ms

Loss rate: 0.00%

Run 4: Report of FillP — Data Link

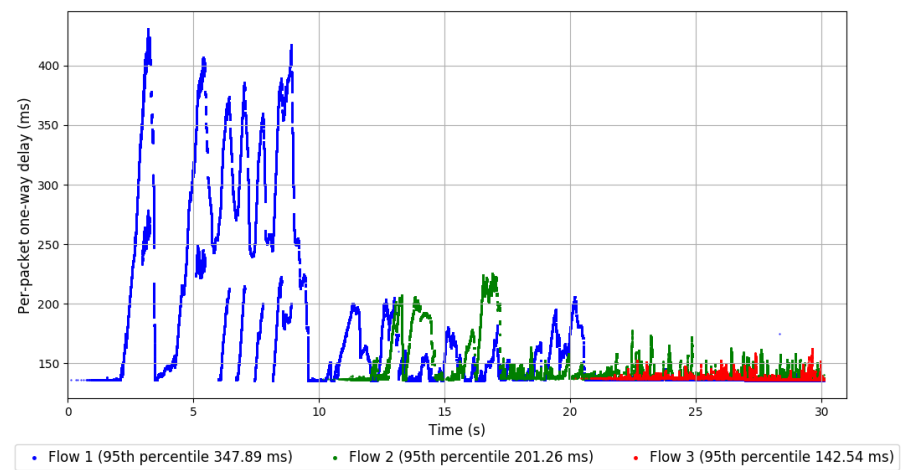
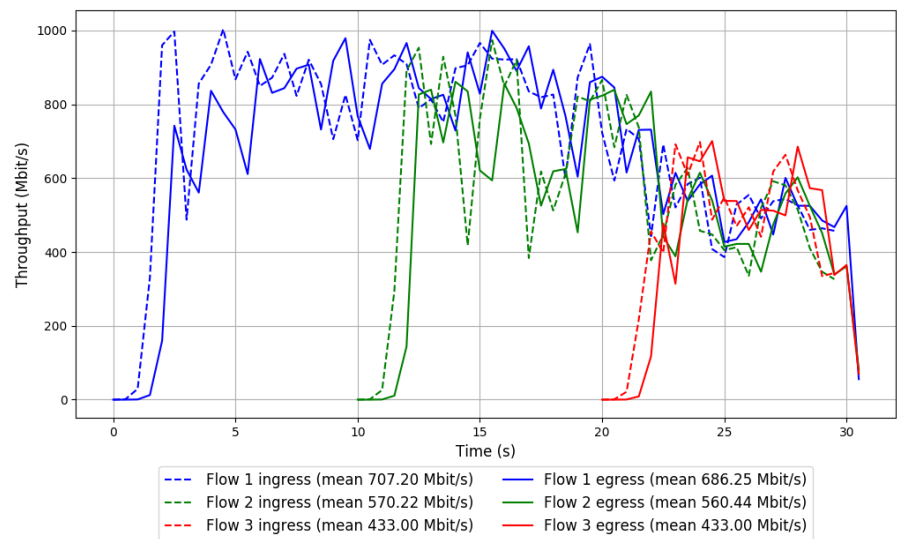


Run 5: Statistics of FillP

Start at: 2018-06-06 07:58:15
End at: 2018-06-06 07:58:45
Local clock offset: -0.14 ms
Remote clock offset: -0.082 ms

Below is generated by plot.py at 2018-06-06 11:15:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 1202.32 Mbit/s
95th percentile per-packet one-way delay: 305.605 ms
Loss rate: 2.23%
-- Flow 1:
Average throughput: 686.25 Mbit/s
95th percentile per-packet one-way delay: 347.893 ms
Loss rate: 2.96%
-- Flow 2:
Average throughput: 560.44 Mbit/s
95th percentile per-packet one-way delay: 201.257 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 433.00 Mbit/s
95th percentile per-packet one-way delay: 142.540 ms
Loss rate: 0.01%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-06-06 08:23:31

End at: 2018-06-06 08:24:01

Local clock offset: -0.053 ms

Remote clock offset: 0.271 ms

Below is generated by plot.py at 2018-06-06 11:15:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 1142.88 Mbit/s

95th percentile per-packet one-way delay: 207.421 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 639.77 Mbit/s

95th percentile per-packet one-way delay: 211.848 ms

Loss rate: 2.74%

-- Flow 2:

Average throughput: 535.36 Mbit/s

95th percentile per-packet one-way delay: 168.220 ms

Loss rate: 0.02%

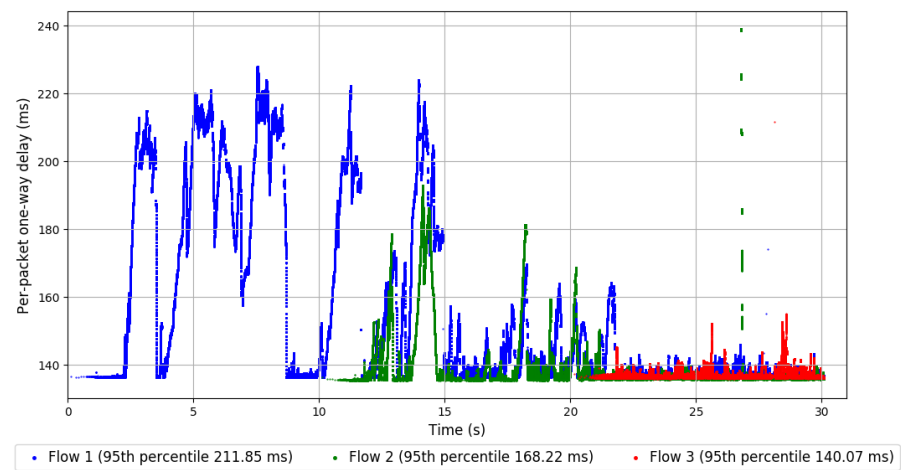
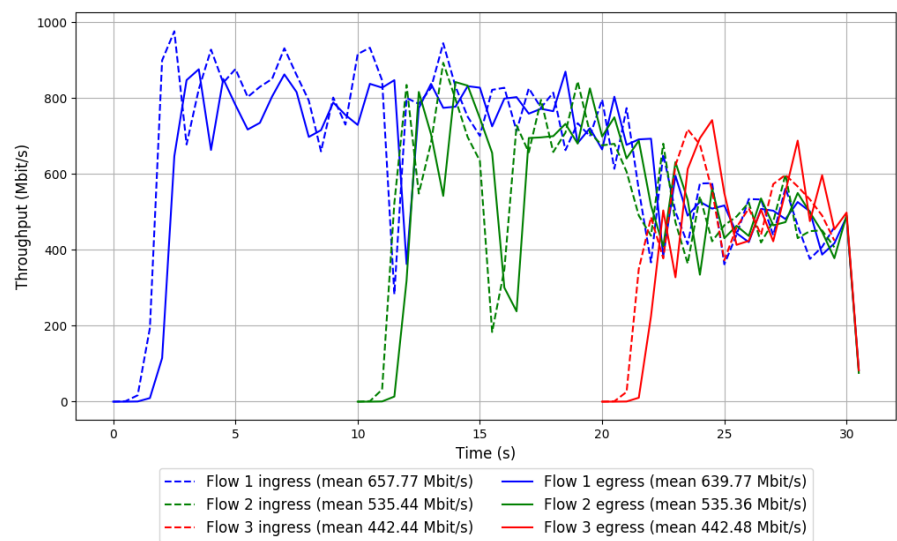
-- Flow 3:

Average throughput: 442.48 Mbit/s

95th percentile per-packet one-way delay: 140.068 ms

Loss rate: 0.00%

Run 6: Report of FillP — Data Link

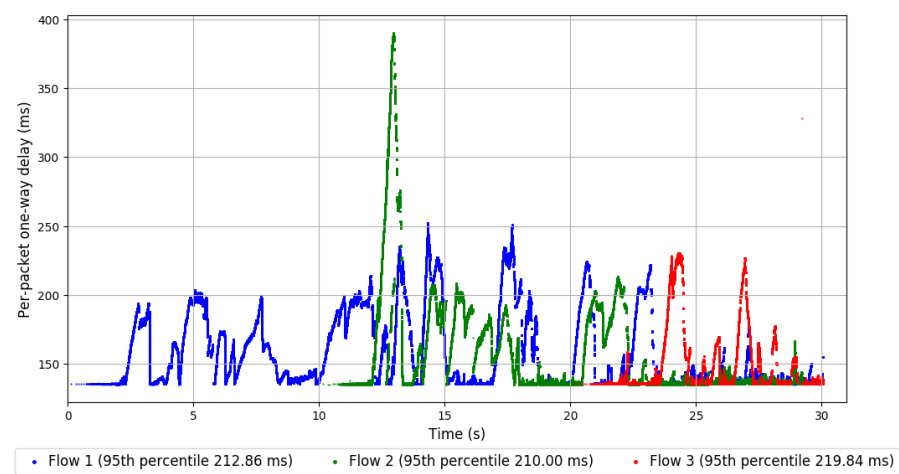
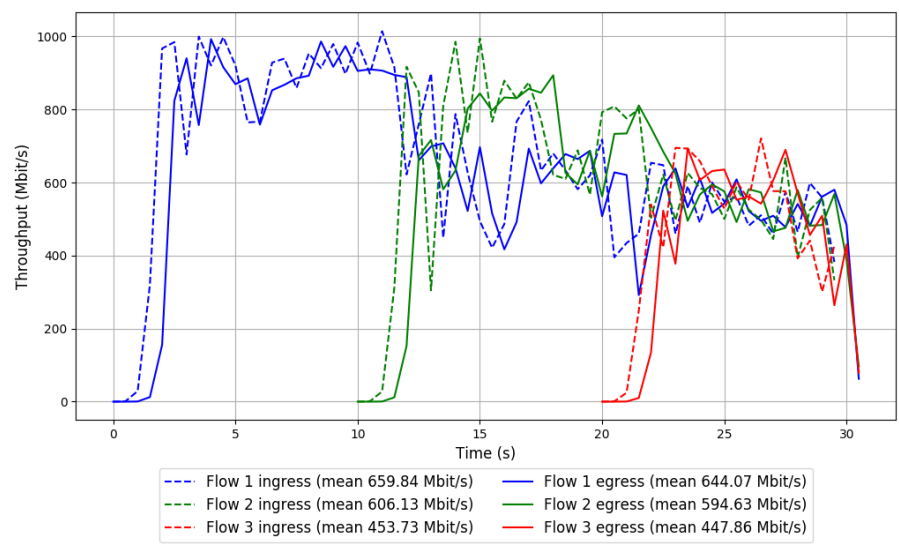


Run 7: Statistics of FillP

Start at: 2018-06-06 08:48:37
End at: 2018-06-06 08:49:07
Local clock offset: -0.012 ms
Remote clock offset: -0.527 ms

Below is generated by plot.py at 2018-06-06 11:16:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 1188.08 Mbit/s
95th percentile per-packet one-way delay: 214.048 ms
Loss rate: 2.09%
-- Flow 1:
Average throughput: 644.07 Mbit/s
95th percentile per-packet one-way delay: 212.863 ms
Loss rate: 2.39%
-- Flow 2:
Average throughput: 594.63 Mbit/s
95th percentile per-packet one-way delay: 210.003 ms
Loss rate: 1.90%
-- Flow 3:
Average throughput: 447.86 Mbit/s
95th percentile per-packet one-way delay: 219.840 ms
Loss rate: 1.30%

Run 7: Report of FillP — Data Link

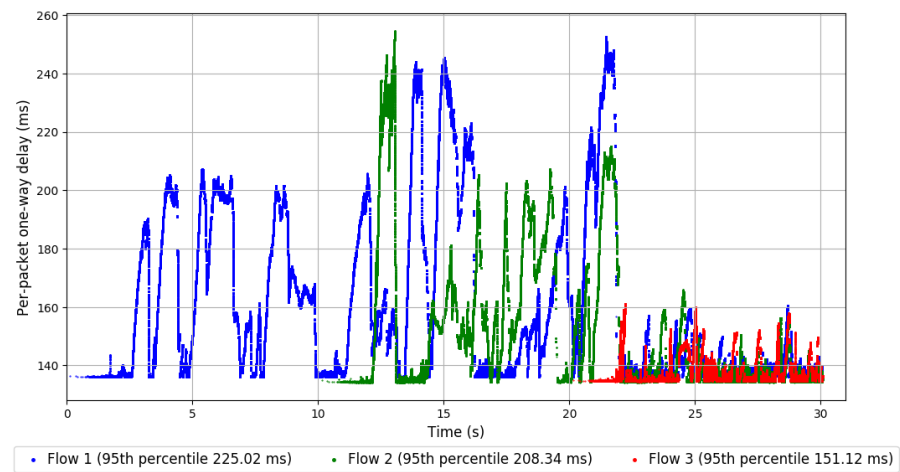
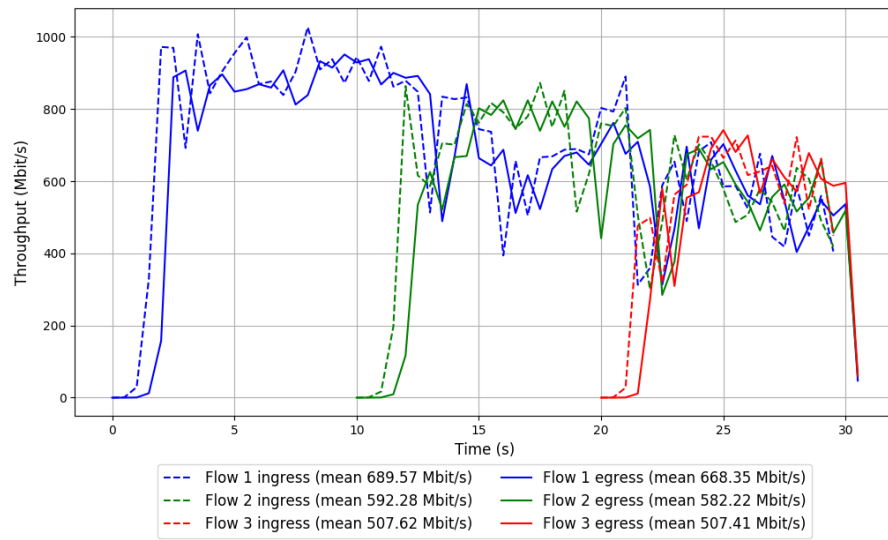


Run 8: Statistics of FillP

Start at: 2018-06-06 09:13:17
End at: 2018-06-06 09:13:47
Local clock offset: 0.27 ms
Remote clock offset: -0.061 ms

Below is generated by plot.py at 2018-06-06 11:18:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 1223.78 Mbit/s
95th percentile per-packet one-way delay: 213.738 ms
Loss rate: 2.23%
-- Flow 1:
Average throughput: 668.35 Mbit/s
95th percentile per-packet one-way delay: 225.022 ms
Loss rate: 3.07%
-- Flow 2:
Average throughput: 582.22 Mbit/s
95th percentile per-packet one-way delay: 208.335 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 507.41 Mbit/s
95th percentile per-packet one-way delay: 151.125 ms
Loss rate: 0.04%

Run 8: Report of FillP — Data Link

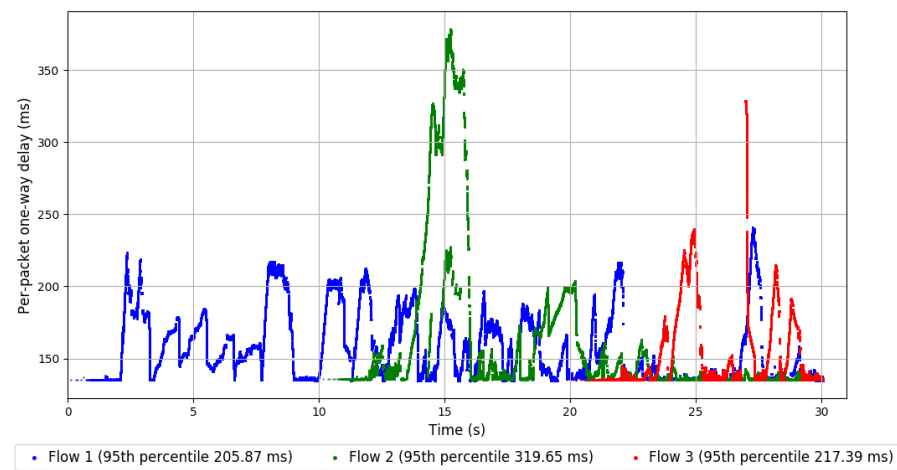
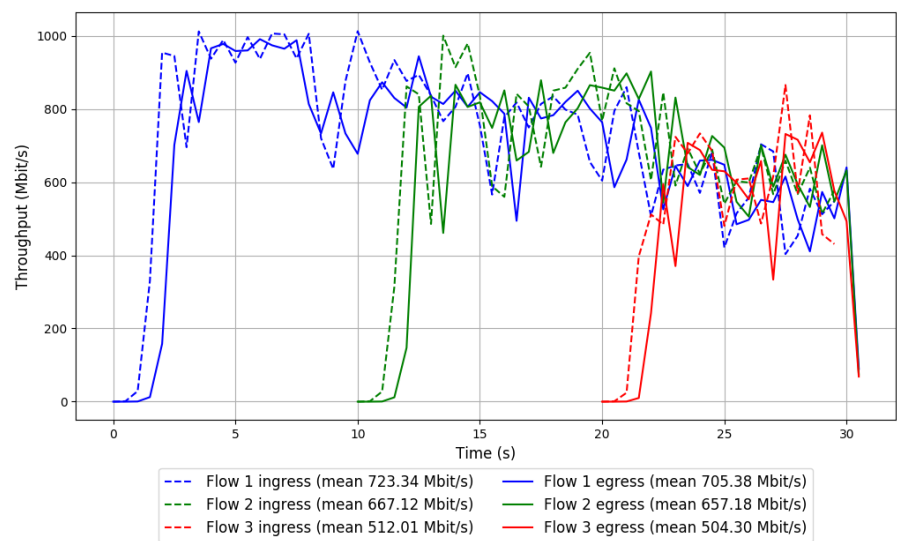


Run 9: Statistics of FillP

Start at: 2018-06-06 09:38:02
End at: 2018-06-06 09:38:32
Local clock offset: 0.317 ms
Remote clock offset: -0.082 ms

Below is generated by plot.py at 2018-06-06 11:39:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 1309.46 Mbit/s
95th percentile per-packet one-way delay: 214.421 ms
Loss rate: 2.03%
-- Flow 1:
Average throughput: 705.38 Mbit/s
95th percentile per-packet one-way delay: 205.871 ms
Loss rate: 2.49%
-- Flow 2:
Average throughput: 657.18 Mbit/s
95th percentile per-packet one-way delay: 319.655 ms
Loss rate: 1.49%
-- Flow 3:
Average throughput: 504.30 Mbit/s
95th percentile per-packet one-way delay: 217.386 ms
Loss rate: 1.51%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-06-06 10:03:08

End at: 2018-06-06 10:03:38

Local clock offset: 0.119 ms

Remote clock offset: 0.362 ms

Below is generated by plot.py at 2018-06-06 11:39:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 1224.95 Mbit/s

95th percentile per-packet one-way delay: 267.241 ms

Loss rate: 3.31%

-- Flow 1:

Average throughput: 642.32 Mbit/s

95th percentile per-packet one-way delay: 261.560 ms

Loss rate: 4.62%

-- Flow 2:

Average throughput: 644.85 Mbit/s

95th percentile per-packet one-way delay: 267.079 ms

Loss rate: 1.91%

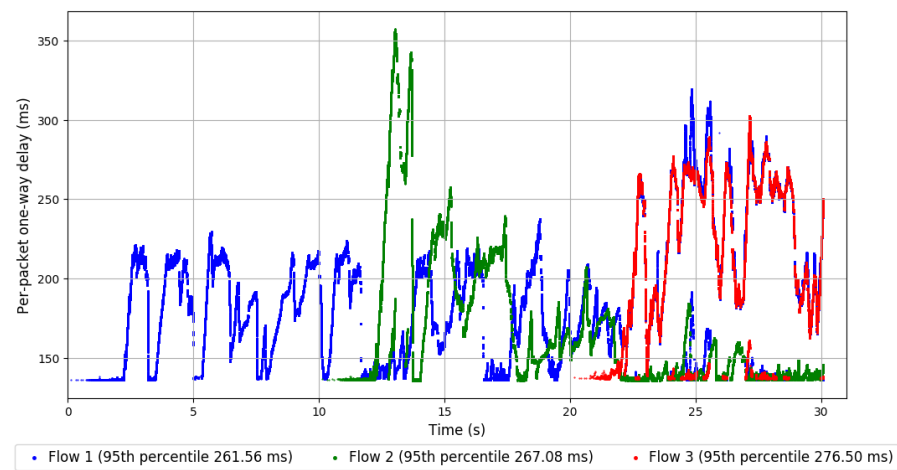
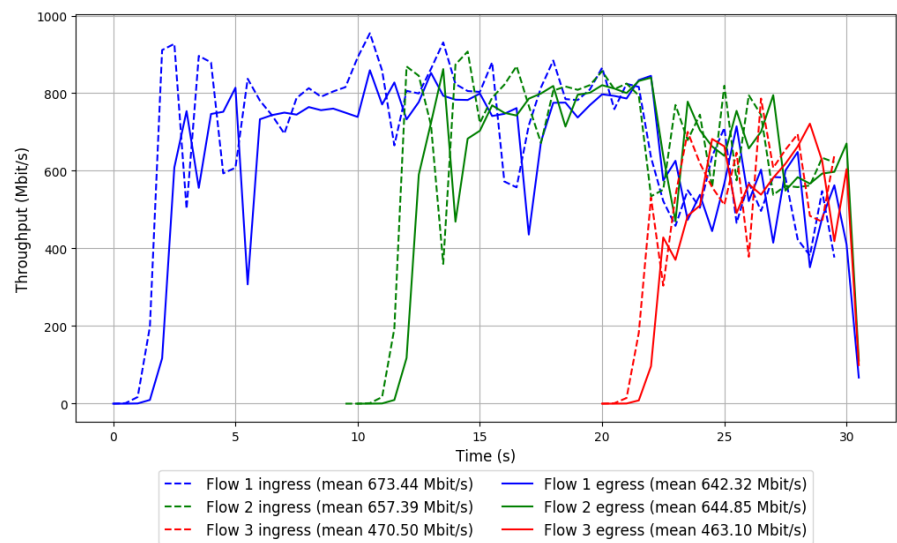
-- Flow 3:

Average throughput: 463.10 Mbit/s

95th percentile per-packet one-way delay: 276.505 ms

Loss rate: 1.59%

Run 10: Report of FillP — Data Link

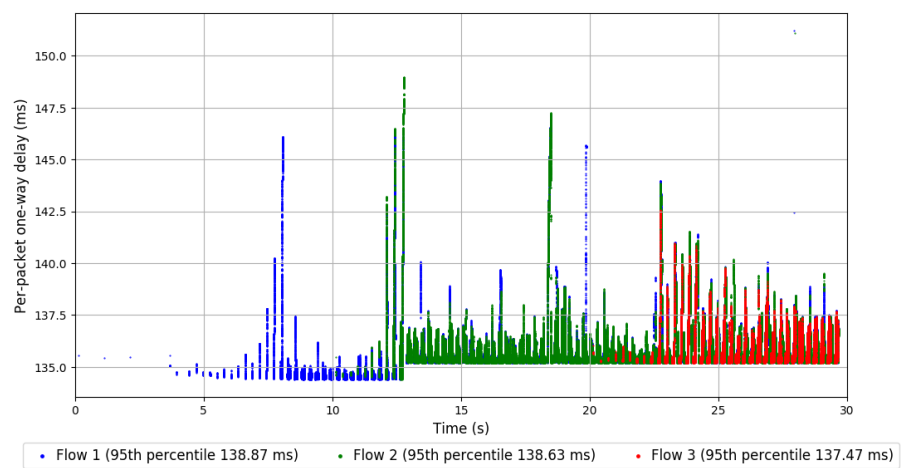
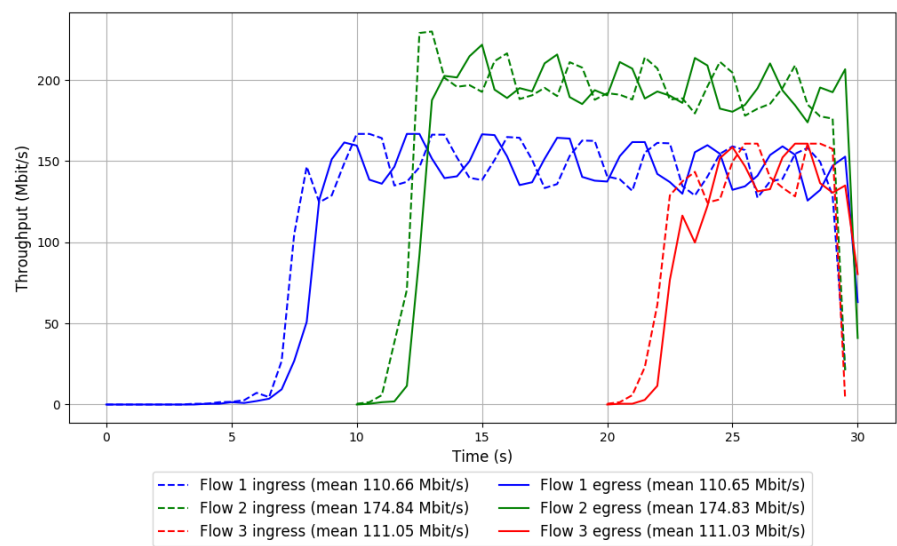


```
Run 1: Statistics of Indigo

Start at: 2018-06-06 06:33:29
End at: 2018-06-06 06:33:59
Local clock offset: -0.01 ms
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2018-06-06 11:39:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 261.96 Mbit/s
95th percentile per-packet one-way delay: 138.552 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 110.65 Mbit/s
95th percentile per-packet one-way delay: 138.868 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 174.83 Mbit/s
95th percentile per-packet one-way delay: 138.628 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 111.03 Mbit/s
95th percentile per-packet one-way delay: 137.472 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-06-06 06:58:10

End at: 2018-06-06 06:58:40

Local clock offset: -0.1 ms

Remote clock offset: 0.366 ms

Below is generated by plot.py at 2018-06-06 11:39:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 254.13 Mbit/s

95th percentile per-packet one-way delay: 137.323 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 132.98 Mbit/s

95th percentile per-packet one-way delay: 137.287 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 129.03 Mbit/s

95th percentile per-packet one-way delay: 137.064 ms

Loss rate: 0.03%

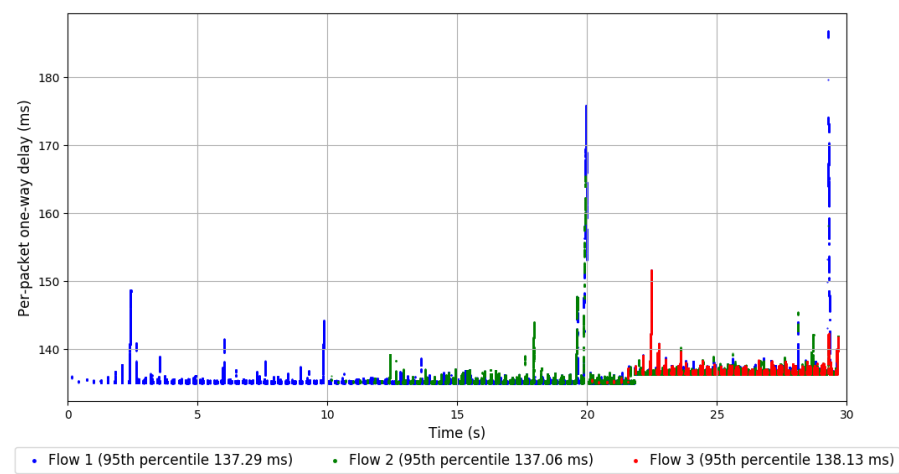
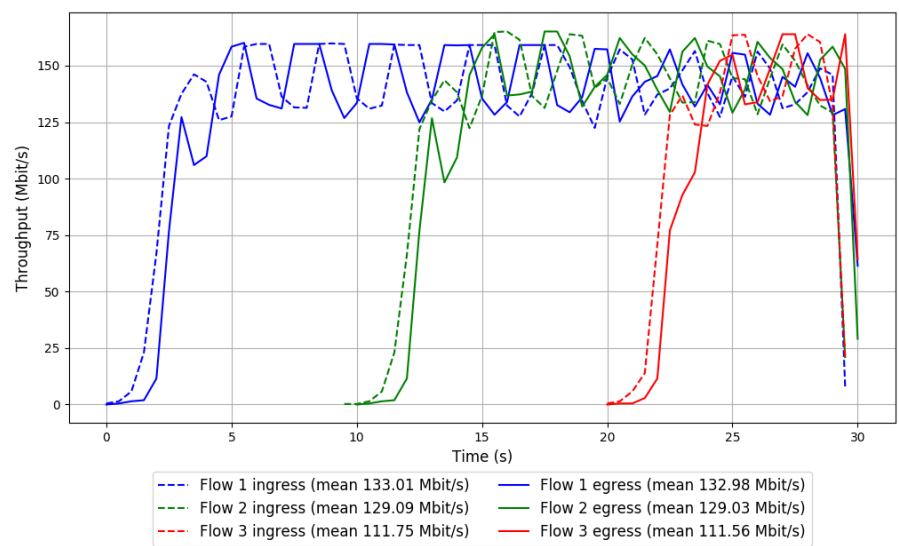
-- Flow 3:

Average throughput: 111.56 Mbit/s

95th percentile per-packet one-way delay: 138.135 ms

Loss rate: 0.15%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-06-06 07:23:07

End at: 2018-06-06 07:23:37

Local clock offset: -0.01 ms

Remote clock offset: 0.376 ms

Below is generated by plot.py at 2018-06-06 11:39:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 329.45 Mbit/s

95th percentile per-packet one-way delay: 139.255 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 172.43 Mbit/s

95th percentile per-packet one-way delay: 138.469 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 163.88 Mbit/s

95th percentile per-packet one-way delay: 139.707 ms

Loss rate: 0.00%

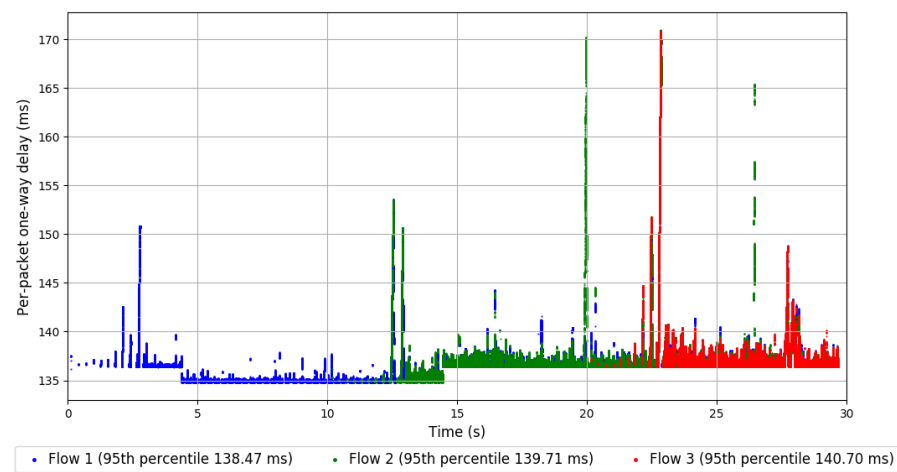
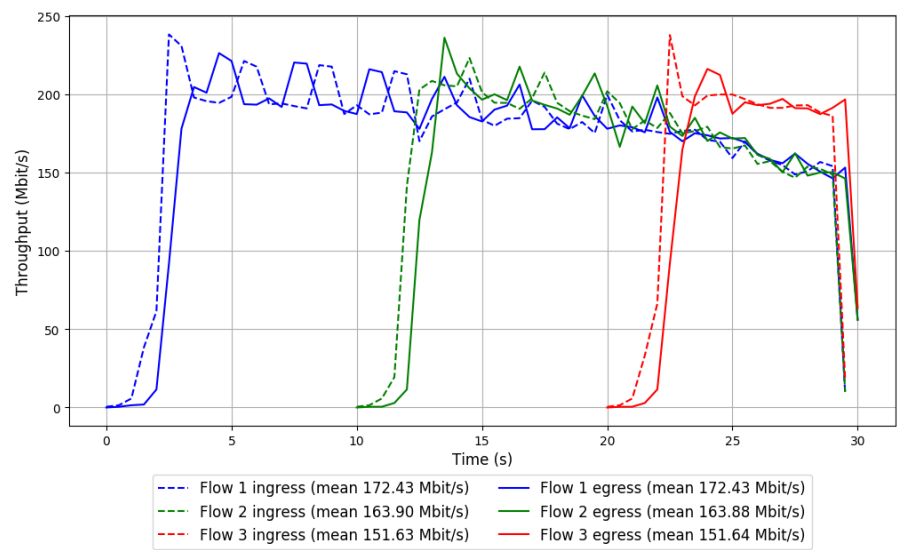
-- Flow 3:

Average throughput: 151.64 Mbit/s

95th percentile per-packet one-way delay: 140.704 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-06-06 07:47:46

End at: 2018-06-06 07:48:16

Local clock offset: -0.169 ms

Remote clock offset: 0.165 ms

Below is generated by plot.py at 2018-06-06 11:39:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 323.22 Mbit/s

95th percentile per-packet one-way delay: 138.242 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 164.42 Mbit/s

95th percentile per-packet one-way delay: 137.804 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 165.05 Mbit/s

95th percentile per-packet one-way delay: 138.509 ms

Loss rate: 0.01%

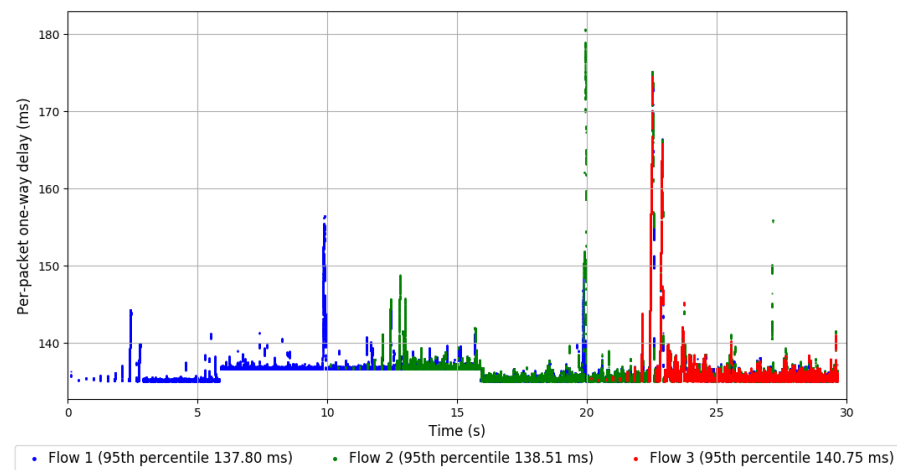
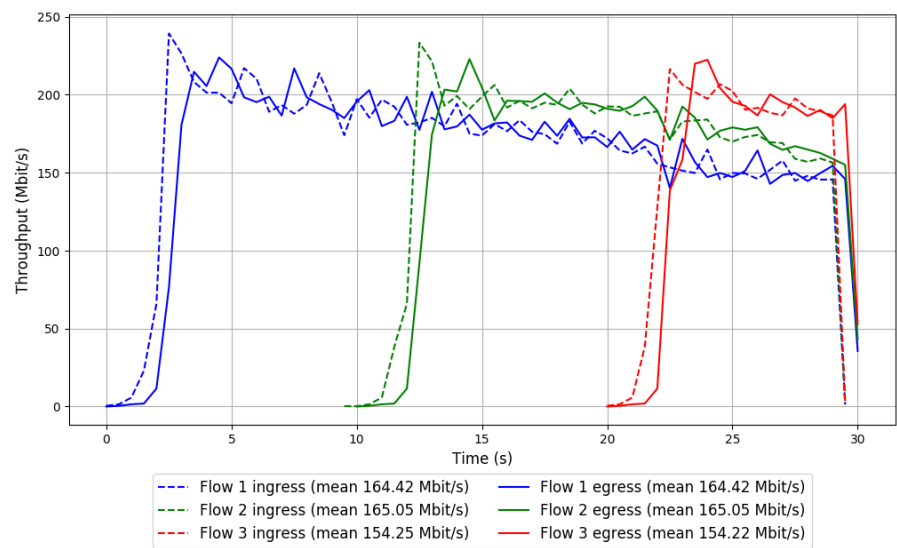
-- Flow 3:

Average throughput: 154.22 Mbit/s

95th percentile per-packet one-way delay: 140.755 ms

Loss rate: 0.01%

Run 4: Report of Indigo — Data Link

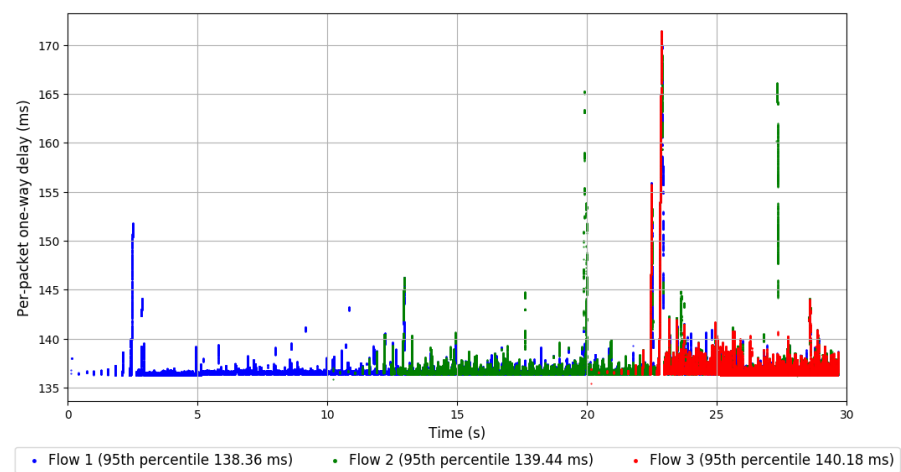
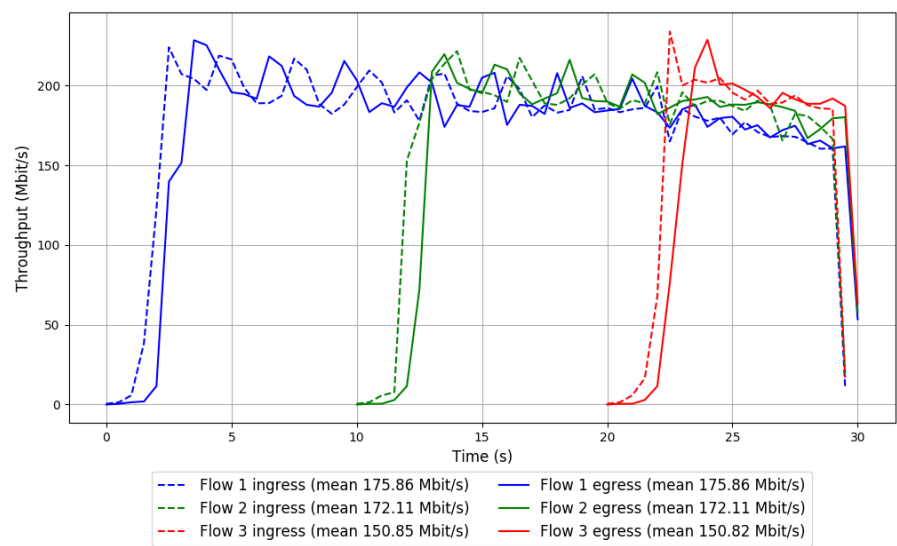


Run 5: Statistics of Indigo

Start at: 2018-06-06 08:12:26
End at: 2018-06-06 08:12:56
Local clock offset: -0.167 ms
Remote clock offset: -0.195 ms

Below is generated by plot.py at 2018-06-06 11:39:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 337.84 Mbit/s
95th percentile per-packet one-way delay: 138.942 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 175.86 Mbit/s
95th percentile per-packet one-way delay: 138.360 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 172.11 Mbit/s
95th percentile per-packet one-way delay: 139.440 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 150.82 Mbit/s
95th percentile per-packet one-way delay: 140.179 ms
Loss rate: 0.00%

Run 5: Report of Indigo — Data Link

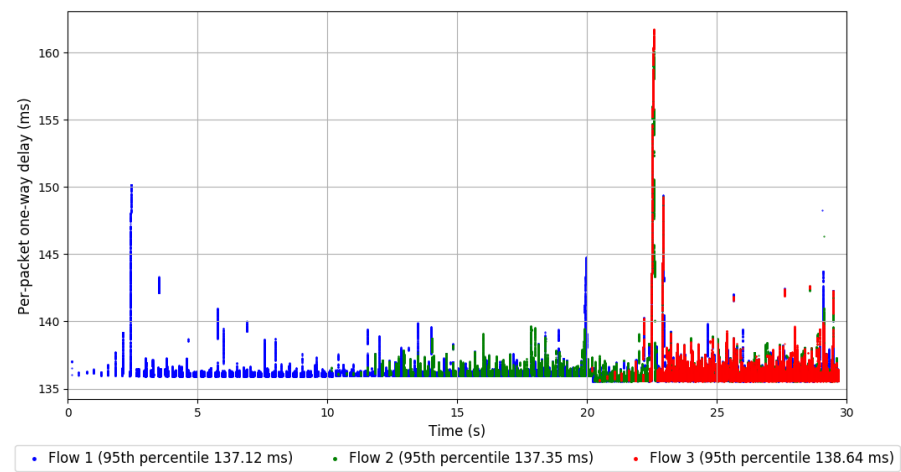
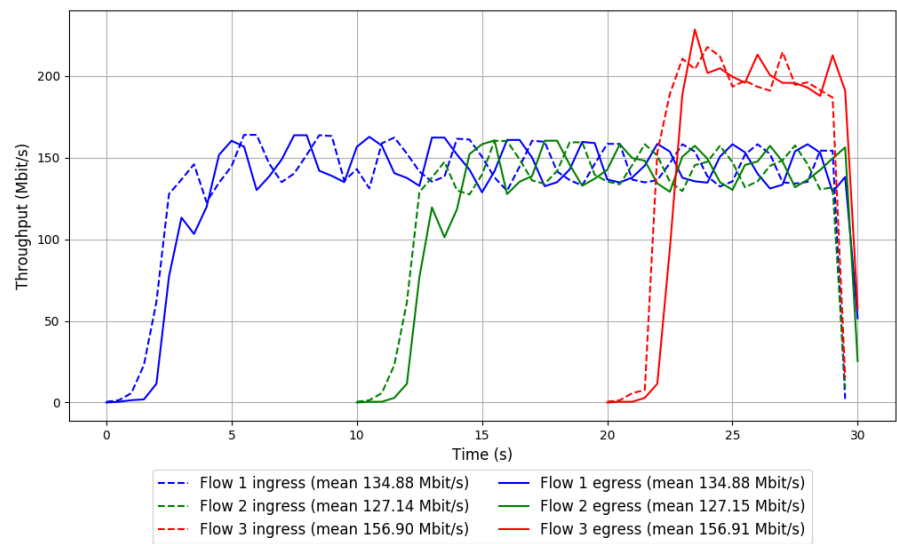


Run 6: Statistics of Indigo

Start at: 2018-06-06 08:37:41
End at: 2018-06-06 08:38:11
Local clock offset: -0.268 ms
Remote clock offset: -0.161 ms

Below is generated by plot.py at 2018-06-06 11:39:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 269.18 Mbit/s
95th percentile per-packet one-way delay: 137.424 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 134.88 Mbit/s
95th percentile per-packet one-way delay: 137.121 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 127.15 Mbit/s
95th percentile per-packet one-way delay: 137.346 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 156.91 Mbit/s
95th percentile per-packet one-way delay: 138.639 ms
Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-06-06 09:02:39

End at: 2018-06-06 09:03:09

Local clock offset: -0.127 ms

Remote clock offset: 0.331 ms

Below is generated by plot.py at 2018-06-06 11:39:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 329.69 Mbit/s

95th percentile per-packet one-way delay: 140.438 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 171.29 Mbit/s

95th percentile per-packet one-way delay: 138.562 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 165.51 Mbit/s

95th percentile per-packet one-way delay: 140.686 ms

Loss rate: 0.00%

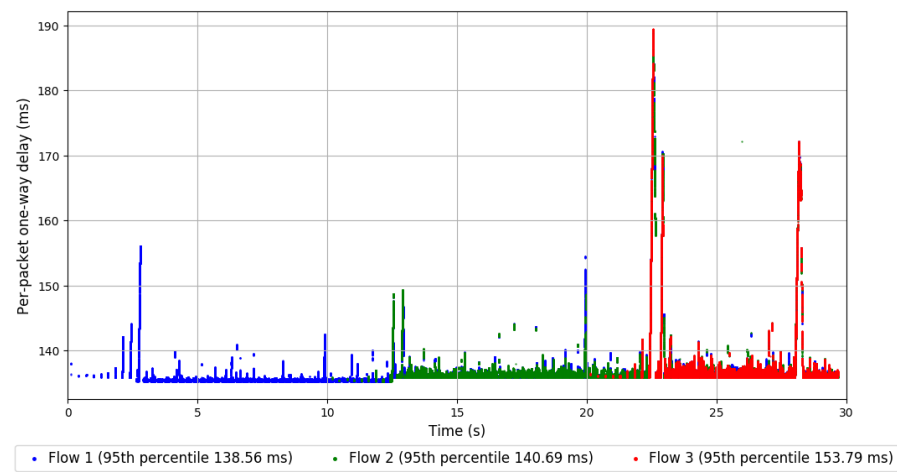
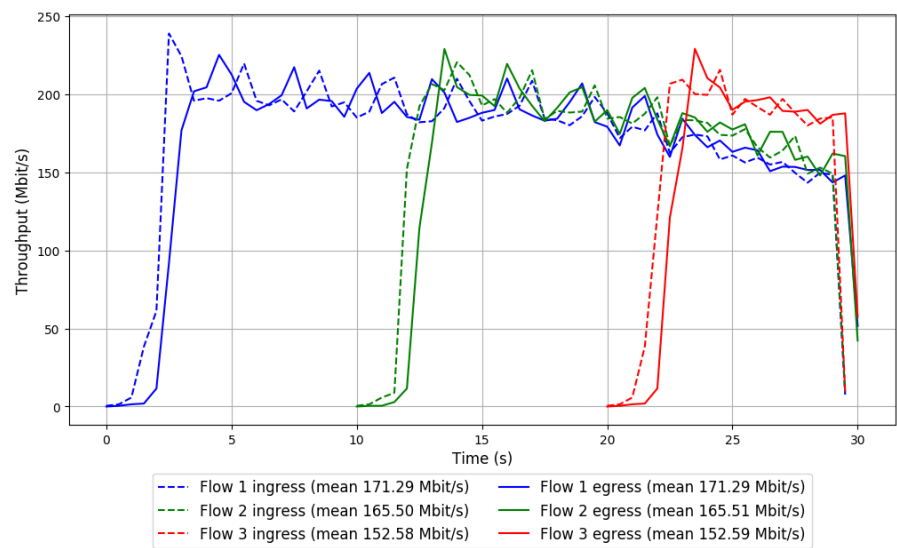
-- Flow 3:

Average throughput: 152.59 Mbit/s

95th percentile per-packet one-way delay: 153.794 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link

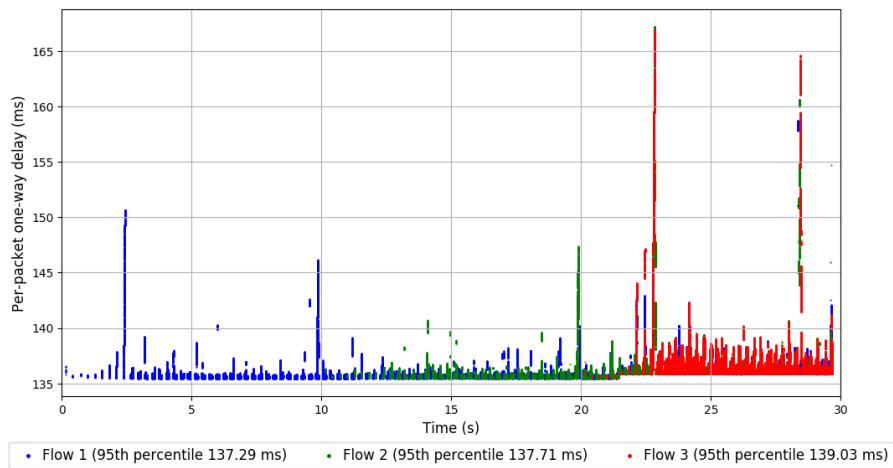
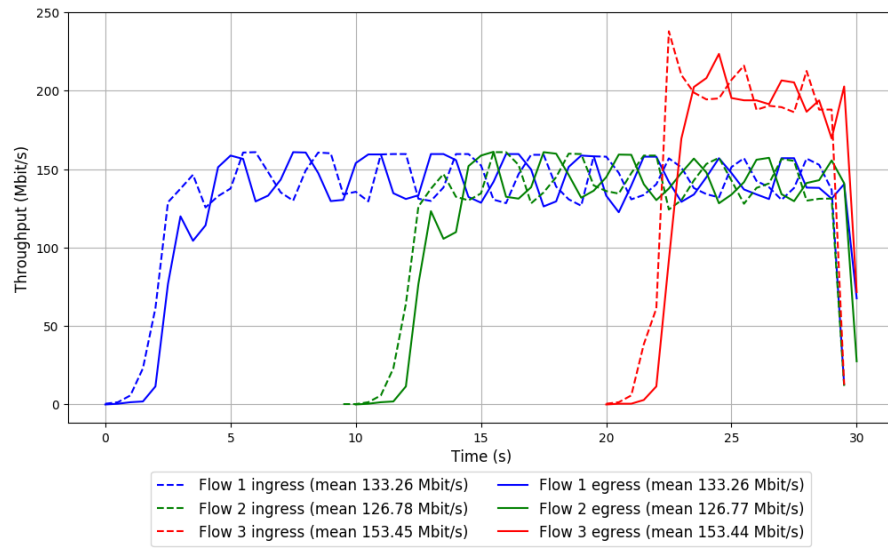


Run 8: Statistics of Indigo

Start at: 2018-06-06 09:27:30
End at: 2018-06-06 09:28:00
Local clock offset: -0.097 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2018-06-06 11:39:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 266.56 Mbit/s
95th percentile per-packet one-way delay: 137.841 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 133.26 Mbit/s
95th percentile per-packet one-way delay: 137.287 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 126.77 Mbit/s
95th percentile per-packet one-way delay: 137.712 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 153.44 Mbit/s
95th percentile per-packet one-way delay: 139.034 ms
Loss rate: 0.01%

Run 8: Report of Indigo — Data Link

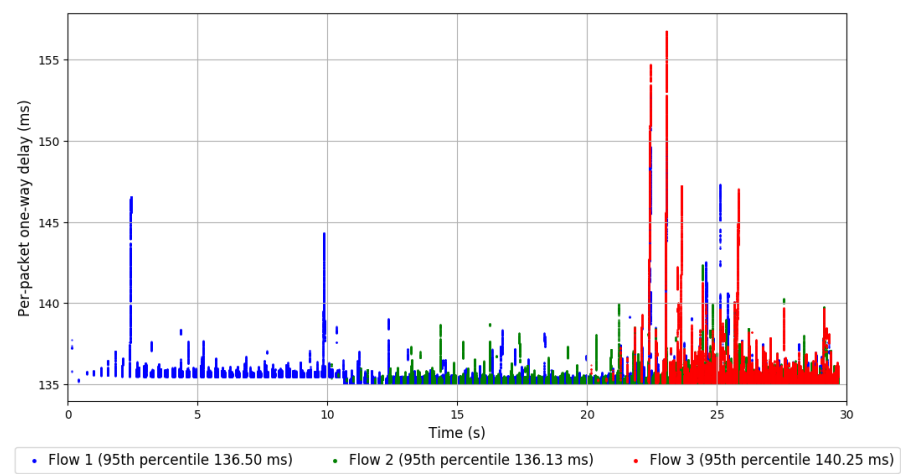
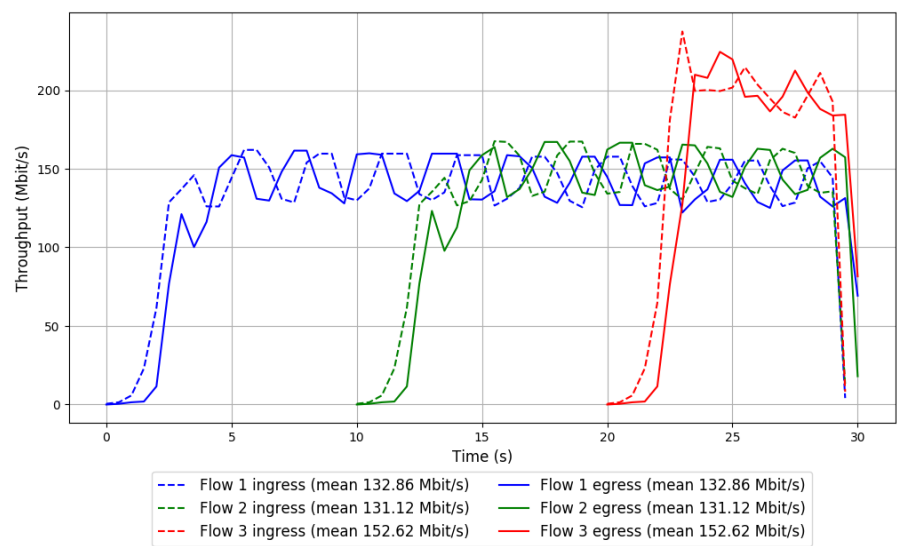


Run 9: Statistics of Indigo

Start at: 2018-06-06 09:52:31
End at: 2018-06-06 09:53:01
Local clock offset: 0.289 ms
Remote clock offset: -0.048 ms

Below is generated by plot.py at 2018-06-06 11:39:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 268.73 Mbit/s
95th percentile per-packet one-way delay: 136.826 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 132.86 Mbit/s
95th percentile per-packet one-way delay: 136.499 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 131.12 Mbit/s
95th percentile per-packet one-way delay: 136.132 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 152.62 Mbit/s
95th percentile per-packet one-way delay: 140.245 ms
Loss rate: 0.00%

Run 9: Report of Indigo — Data Link

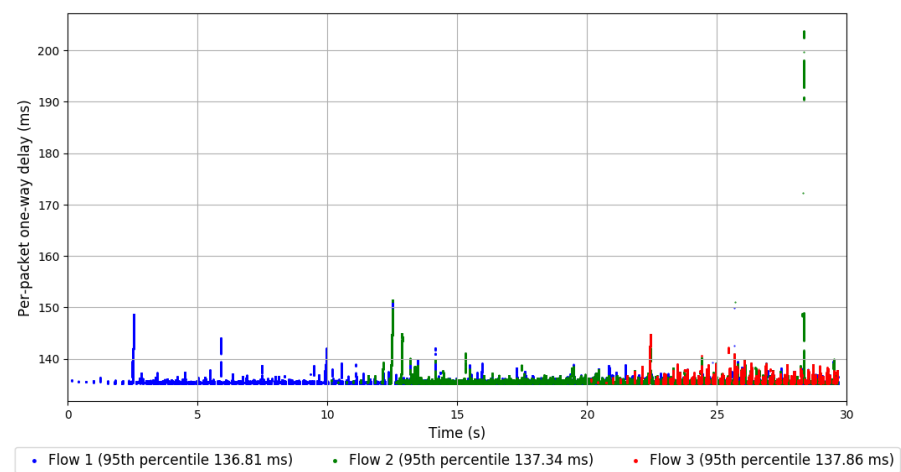
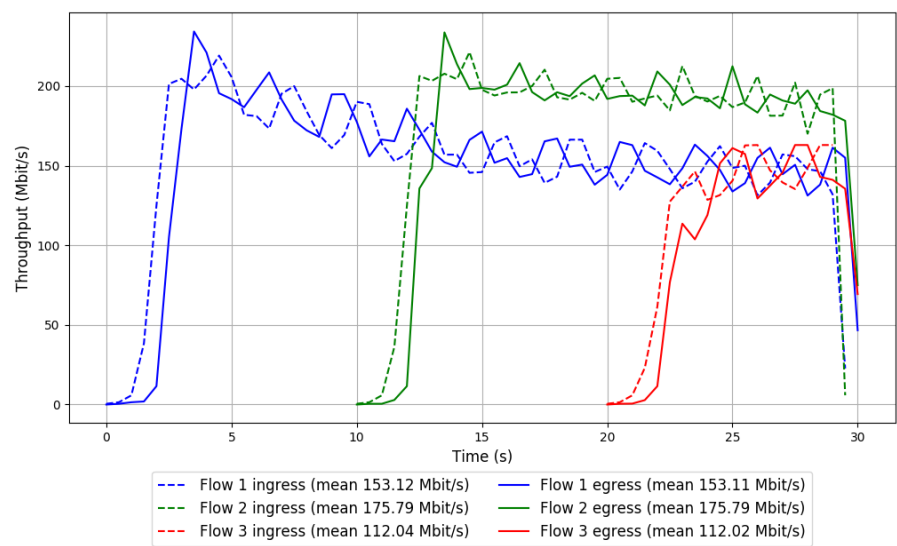


Run 10: Statistics of Indigo

Start at: 2018-06-06 10:17:22
End at: 2018-06-06 10:17:52
Local clock offset: 0.27 ms
Remote clock offset: -0.014 ms

Below is generated by plot.py at 2018-06-06 11:39:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 305.12 Mbit/s
95th percentile per-packet one-way delay: 137.233 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 153.11 Mbit/s
95th percentile per-packet one-way delay: 136.815 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 175.79 Mbit/s
95th percentile per-packet one-way delay: 137.342 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 112.02 Mbit/s
95th percentile per-packet one-way delay: 137.858 ms
Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

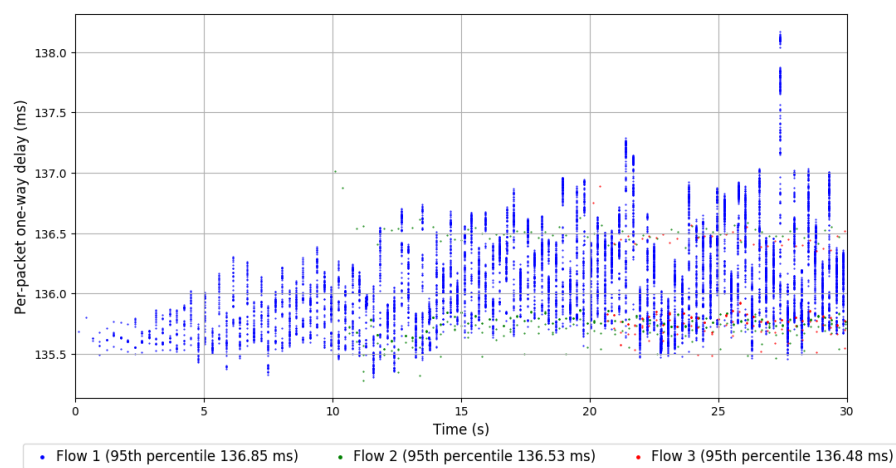
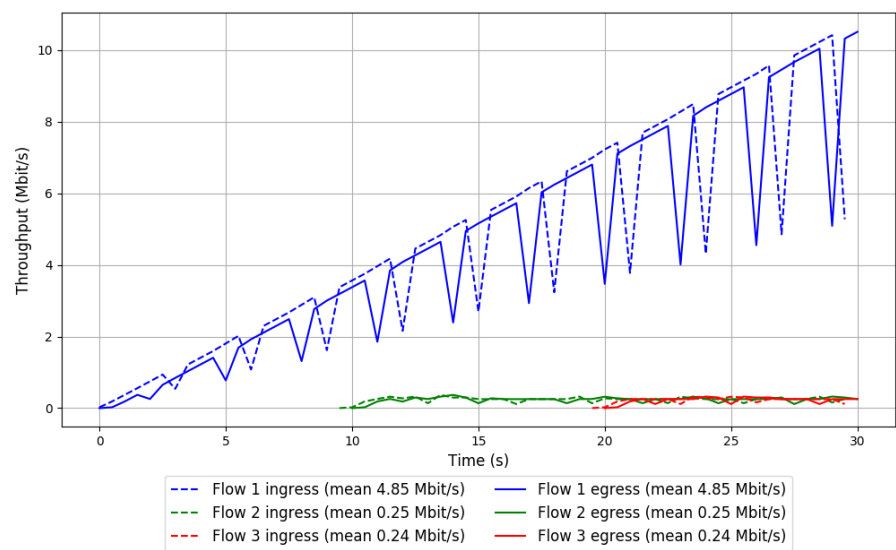


```
Run 1: Statistics of LEDBAT

Start at: 2018-06-06 06:18:08
End at: 2018-06-06 06:18:38
Local clock offset: -0.079 ms
Remote clock offset: -0.145 ms

# Below is generated by plot.py at 2018-06-06 11:39:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.08 Mbit/s
95th percentile per-packet one-way delay: 136.845 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.85 Mbit/s
95th percentile per-packet one-way delay: 136.851 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 136.532 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 136.478 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

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

End at: 2018-06-06 06:43:30

Local clock offset: -0.156 ms

Remote clock offset: 0.35 ms

Below is generated by plot.py at 2018-06-06 11:39:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.99 Mbit/s

95th percentile per-packet one-way delay: 137.565 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 4.51 Mbit/s

95th percentile per-packet one-way delay: 137.585 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.21 Mbit/s

95th percentile per-packet one-way delay: 137.566 ms

Loss rate: 0.00%

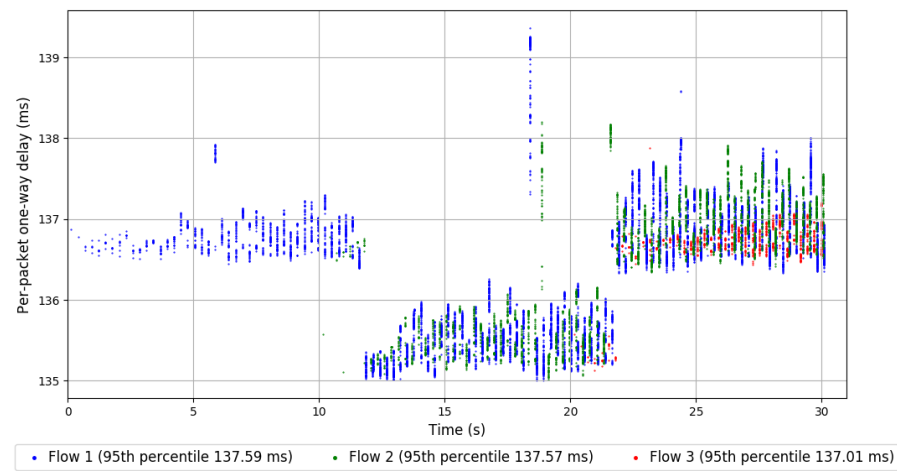
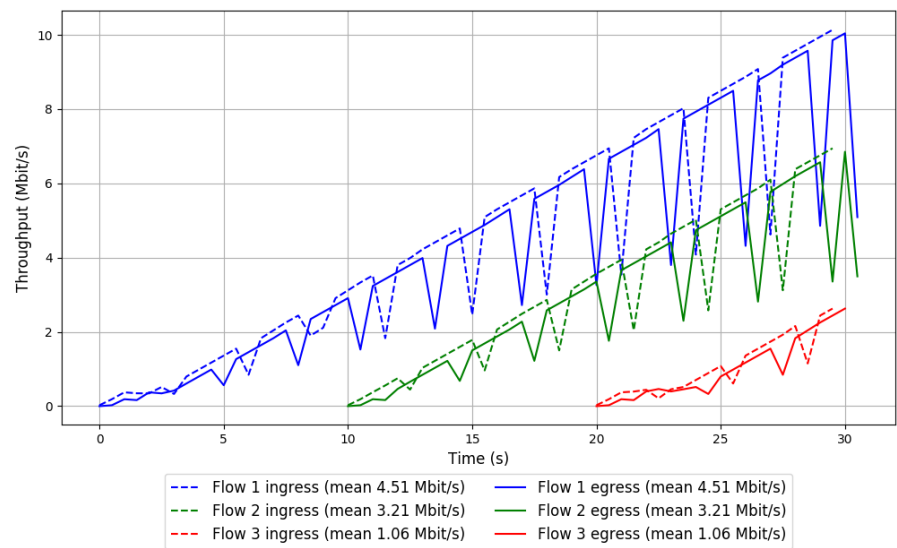
-- Flow 3:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 137.011 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-06-06 07:07:38

End at: 2018-06-06 07:08:08

Local clock offset: 0.023 ms

Remote clock offset: 0.35 ms

Below is generated by plot.py at 2018-06-06 11:39:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.69 Mbit/s

95th percentile per-packet one-way delay: 137.313 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 4.52 Mbit/s

95th percentile per-packet one-way delay: 137.421 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 137.214 ms

Loss rate: 0.00%

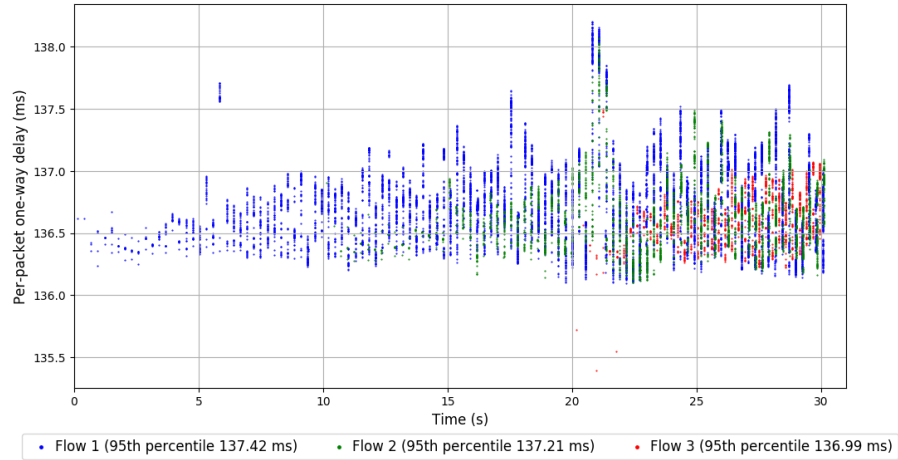
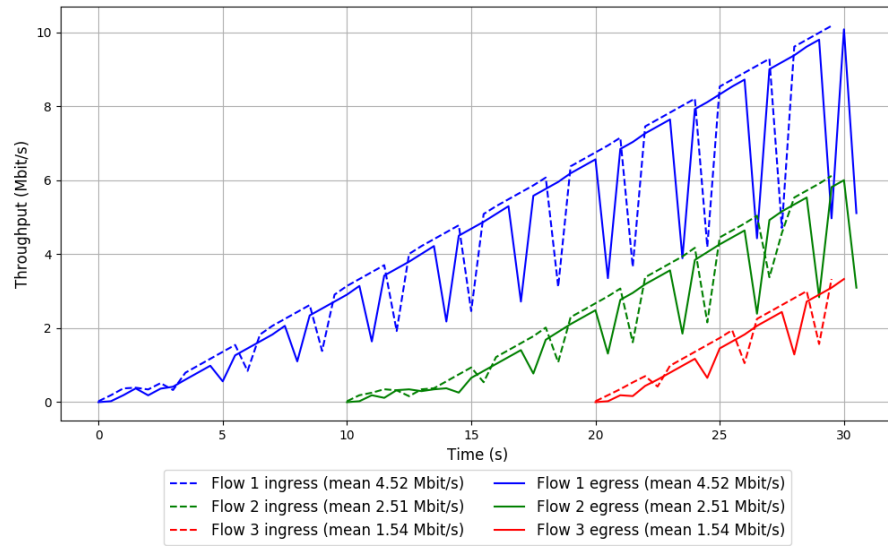
-- Flow 3:

Average throughput: 1.54 Mbit/s

95th percentile per-packet one-way delay: 136.990 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-06-06 07:32:24

End at: 2018-06-06 07:32:54

Local clock offset: -0.107 ms

Remote clock offset: 0.379 ms

Below is generated by plot.py at 2018-06-06 11:39:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.74 Mbit/s

95th percentile per-packet one-way delay: 137.725 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 4.81 Mbit/s

95th percentile per-packet one-way delay: 137.749 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 137.718 ms

Loss rate: 0.00%

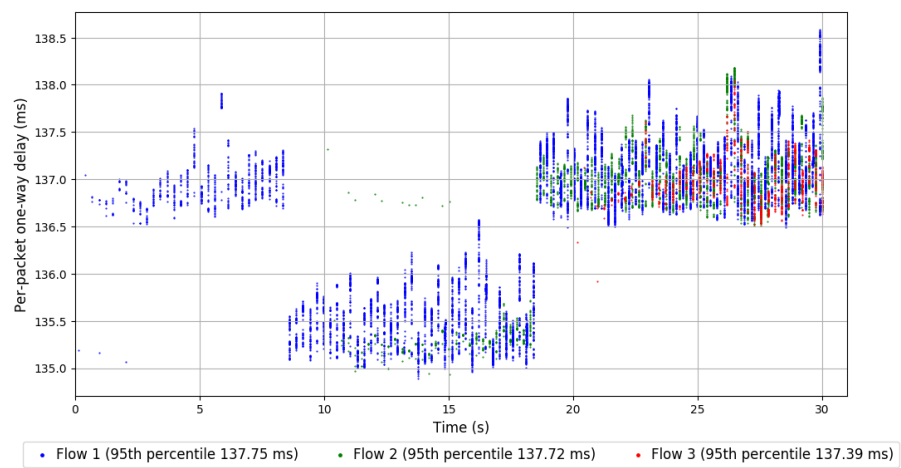
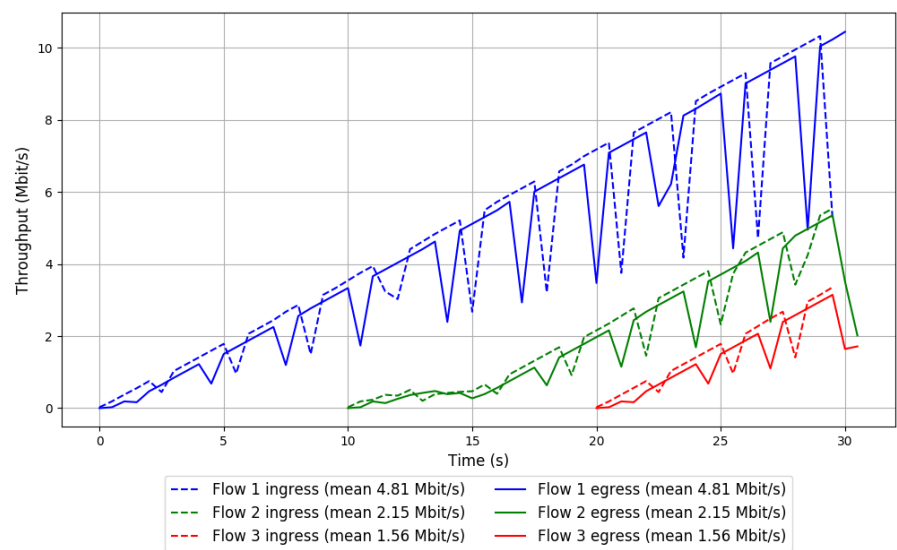
-- Flow 3:

Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 137.393 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

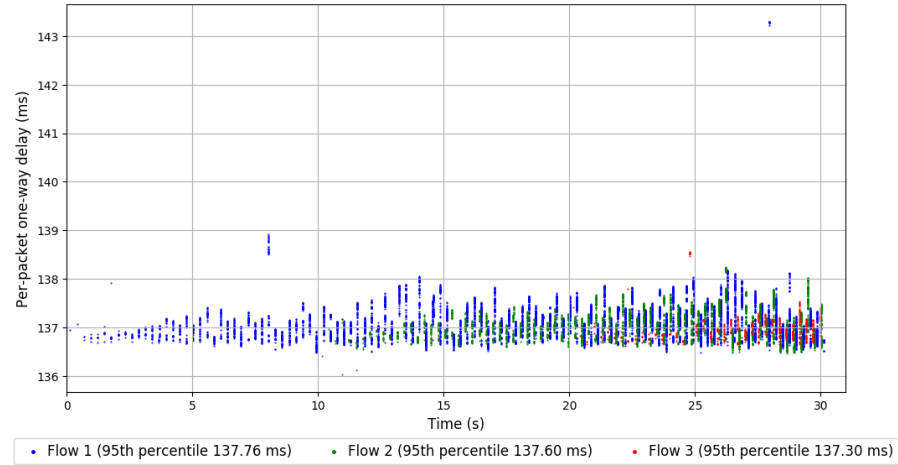
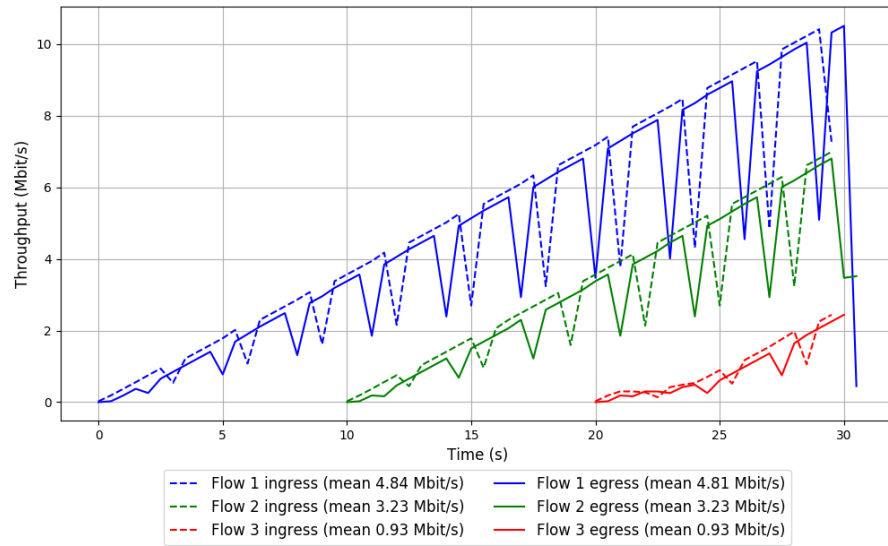


Run 5: Statistics of LEDBAT

Start at: 2018-06-06 07:56:59
End at: 2018-06-06 07:57:29
Local clock offset: 0.029 ms
Remote clock offset: -0.016 ms

Below is generated by plot.py at 2018-06-06 11:39:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.26 Mbit/s
95th percentile per-packet one-way delay: 137.706 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 4.81 Mbit/s
95th percentile per-packet one-way delay: 137.759 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 3.23 Mbit/s
95th percentile per-packet one-way delay: 137.600 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 137.296 ms
Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

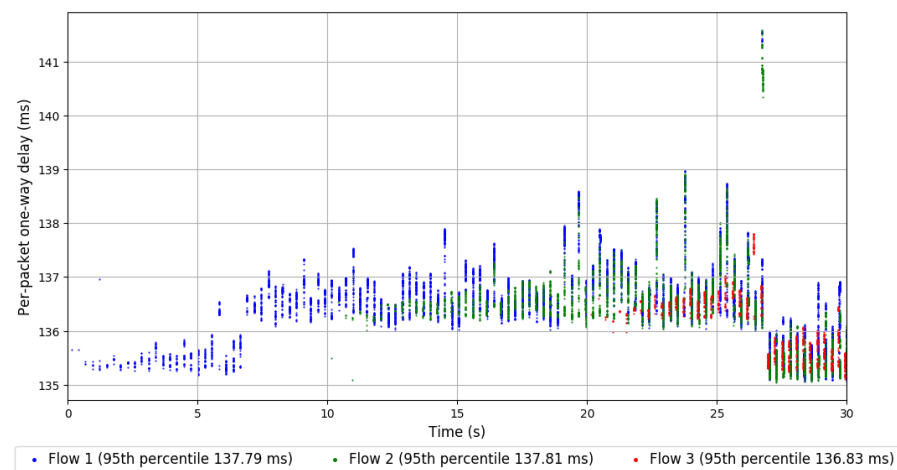
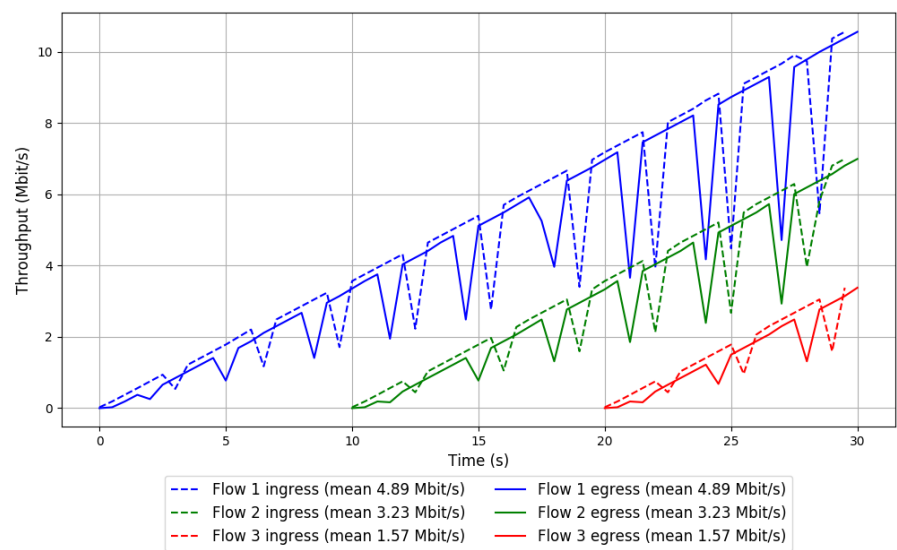


Run 6: Statistics of LEDBAT

Start at: 2018-06-06 08:22:15
End at: 2018-06-06 08:22:45
Local clock offset: 0.03 ms
Remote clock offset: -0.131 ms

Below is generated by plot.py at 2018-06-06 11:39:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.55 Mbit/s
95th percentile per-packet one-way delay: 137.768 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.89 Mbit/s
95th percentile per-packet one-way delay: 137.793 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.23 Mbit/s
95th percentile per-packet one-way delay: 137.814 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.57 Mbit/s
95th percentile per-packet one-way delay: 136.834 ms
Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link

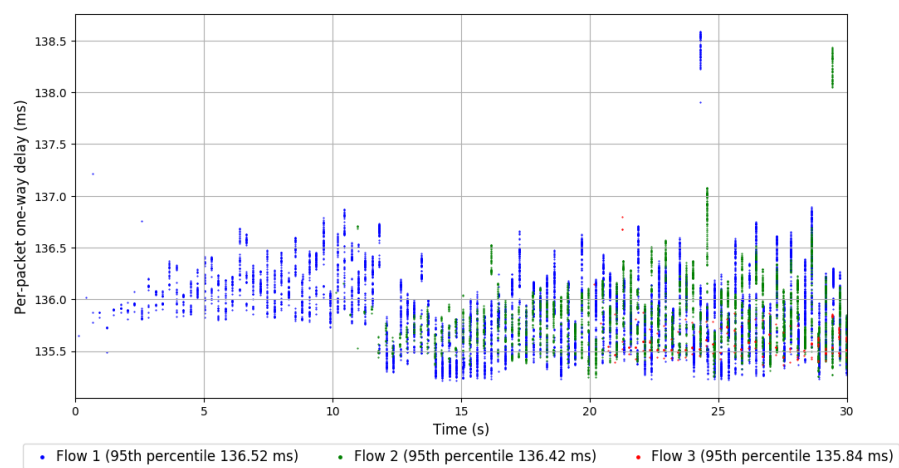
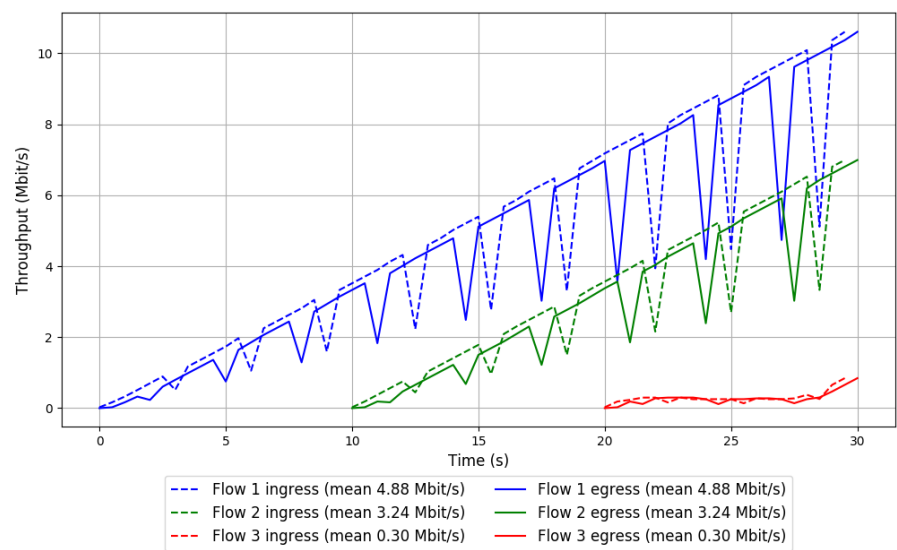


Run 7: Statistics of LEDBAT

Start at: 2018-06-06 08:47:20
End at: 2018-06-06 08:47:50
Local clock offset: -0.283 ms
Remote clock offset: -0.524 ms

```
# Below is generated by plot.py at 2018-06-06 11:39:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.13 Mbit/s
95th percentile per-packet one-way delay: 136.492 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.88 Mbit/s
95th percentile per-packet one-way delay: 136.523 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.24 Mbit/s
95th percentile per-packet one-way delay: 136.421 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 135.837 ms
Loss rate: 0.00%
```


Run 7: Report of LEDBAT — Data Link

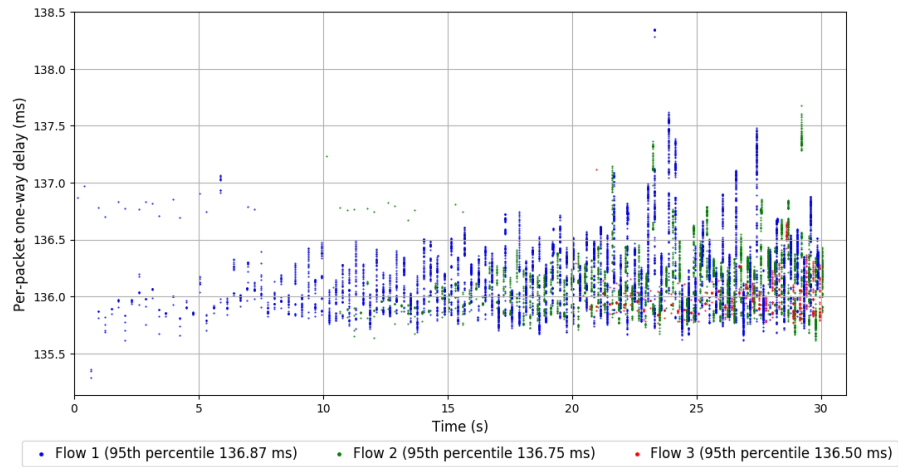
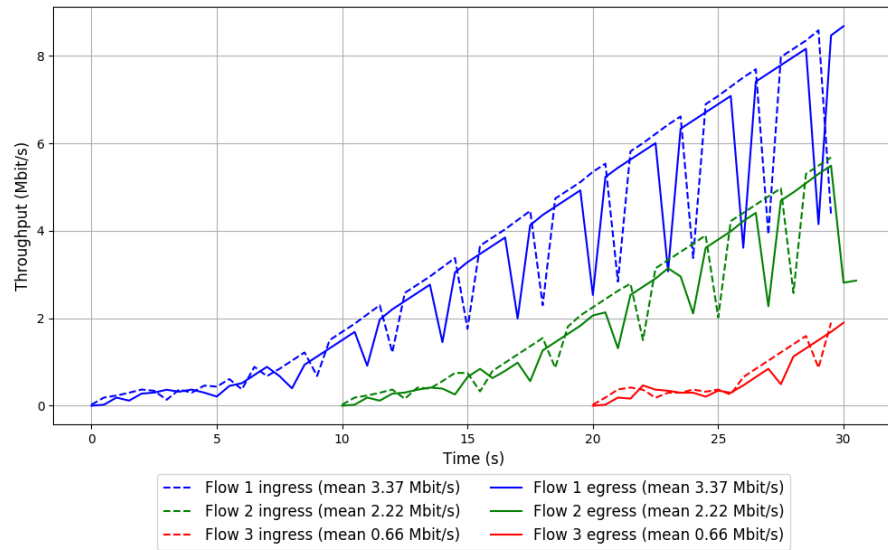


Run 8: Statistics of LEDBAT

Start at: 2018-06-06 09:12:01
End at: 2018-06-06 09:12:31
Local clock offset: -0.251 ms
Remote clock offset: -0.077 ms

Below is generated by plot.py at 2018-06-06 11:39:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.04 Mbit/s
95th percentile per-packet one-way delay: 136.808 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.37 Mbit/s
95th percentile per-packet one-way delay: 136.872 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 136.750 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 136.497 ms
Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link

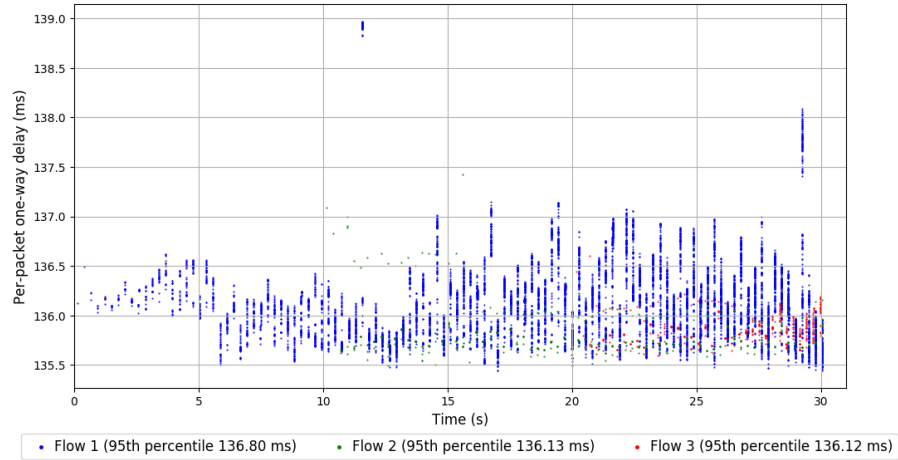
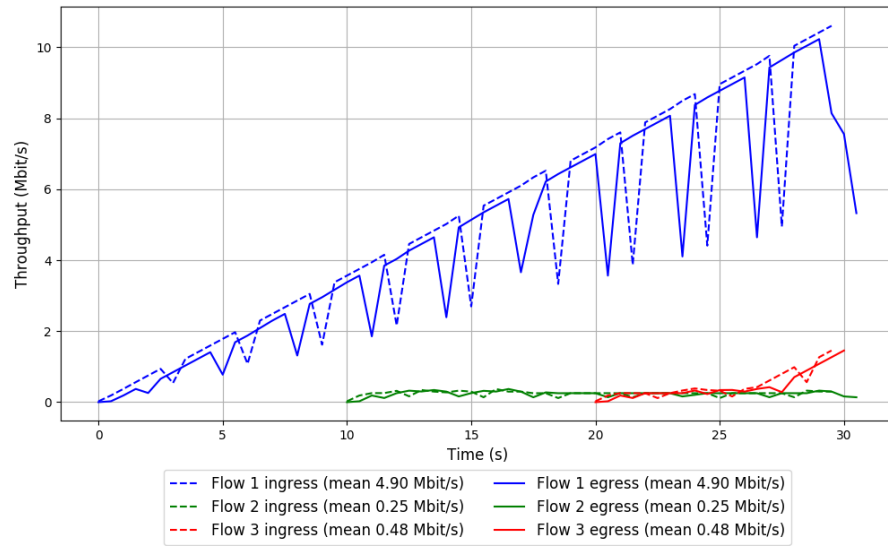


Run 9: Statistics of LEDBAT

Start at: 2018-06-06 09:36:46
End at: 2018-06-06 09:37:16
Local clock offset: -0.059 ms
Remote clock offset: -0.057 ms

Below is generated by plot.py at 2018-06-06 11:39:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.22 Mbit/s
95th percentile per-packet one-way delay: 136.790 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.90 Mbit/s
95th percentile per-packet one-way delay: 136.800 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 136.134 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 136.116 ms
Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link

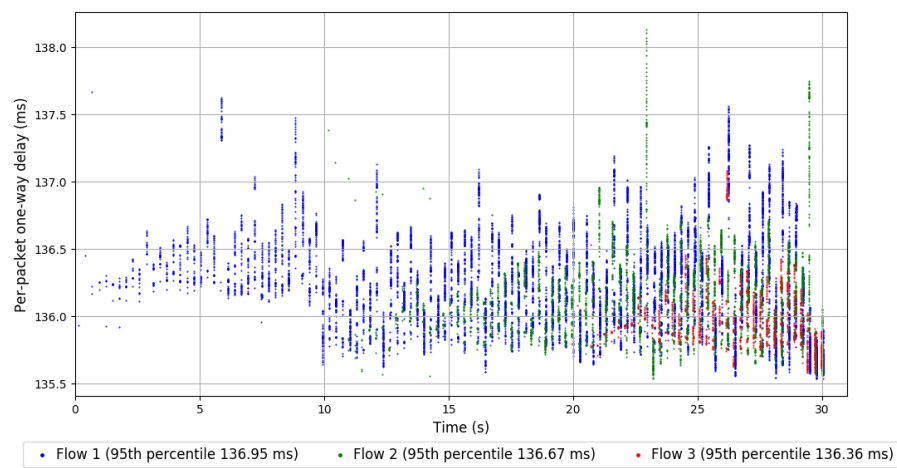
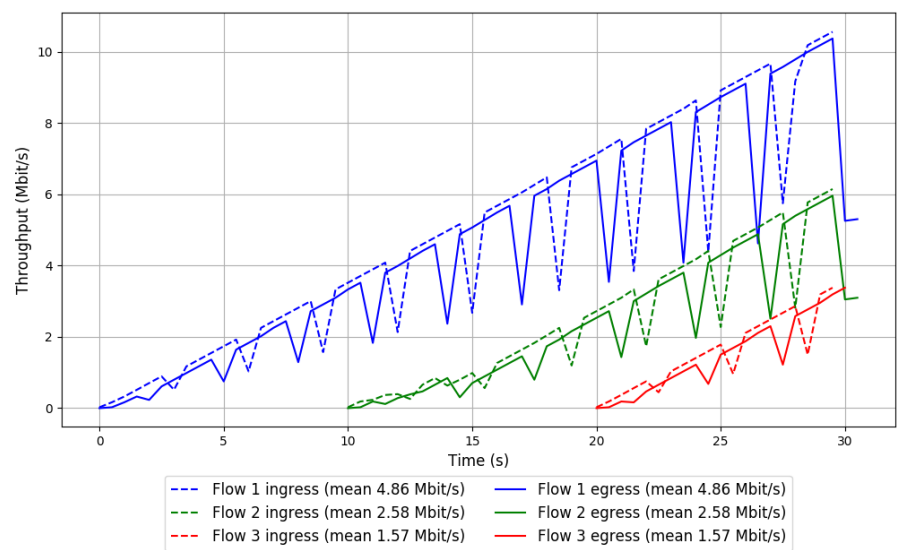


Run 10: Statistics of LEDBAT

Start at: 2018-06-06 10:01:52
End at: 2018-06-06 10:02:22
Local clock offset: -0.134 ms
Remote clock offset: -0.027 ms

Below is generated by plot.py at 2018-06-06 11:39:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.08 Mbit/s
95th percentile per-packet one-way delay: 136.904 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.86 Mbit/s
95th percentile per-packet one-way delay: 136.949 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.58 Mbit/s
95th percentile per-packet one-way delay: 136.667 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.57 Mbit/s
95th percentile per-packet one-way delay: 136.357 ms
Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

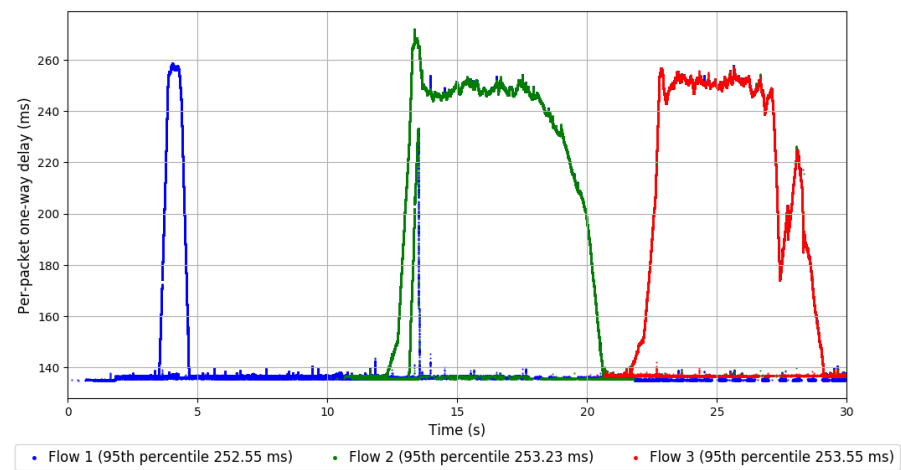
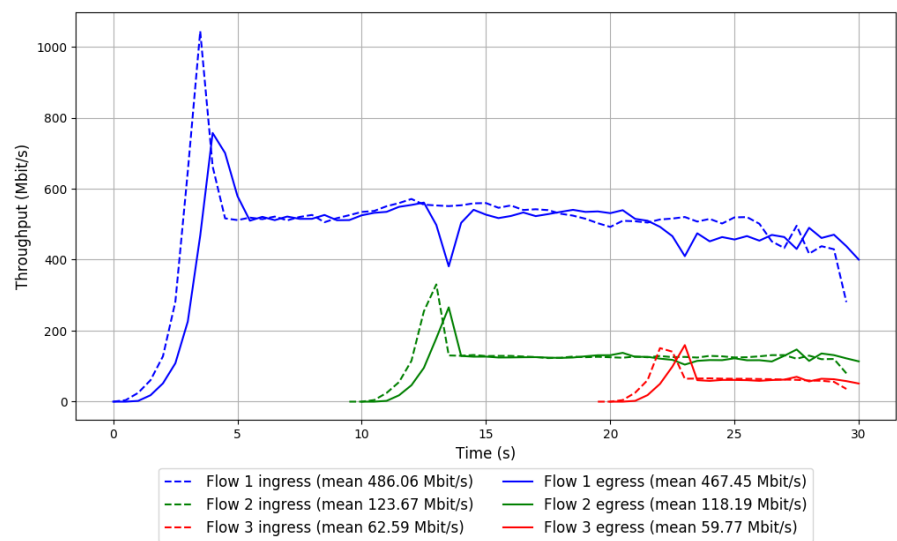


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-06-06 06:37:40
End at: 2018-06-06 06:38:10
Local clock offset: -0.236 ms
Remote clock offset: 0.314 ms

# Below is generated by plot.py at 2018-06-06 11:39:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 565.85 Mbit/s
95th percentile per-packet one-way delay: 252.768 ms
Loss rate: 3.93%
-- Flow 1:
Average throughput: 467.45 Mbit/s
95th percentile per-packet one-way delay: 252.554 ms
Loss rate: 3.82%
-- Flow 2:
Average throughput: 118.19 Mbit/s
95th percentile per-packet one-way delay: 253.229 ms
Loss rate: 4.45%
-- Flow 3:
Average throughput: 59.77 Mbit/s
95th percentile per-packet one-way delay: 253.552 ms
Loss rate: 4.51%
```


Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-06-06 07:02:24

End at: 2018-06-06 07:02:54

Local clock offset: 0.052 ms

Remote clock offset: 0.298 ms

Below is generated by plot.py at 2018-06-06 11:39:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 546.14 Mbit/s

95th percentile per-packet one-way delay: 251.108 ms

Loss rate: 1.61%

-- Flow 1:

Average throughput: 505.87 Mbit/s

95th percentile per-packet one-way delay: 251.239 ms

Loss rate: 1.66%

-- Flow 2:

Average throughput: 59.39 Mbit/s

95th percentile per-packet one-way delay: 250.486 ms

Loss rate: 1.02%

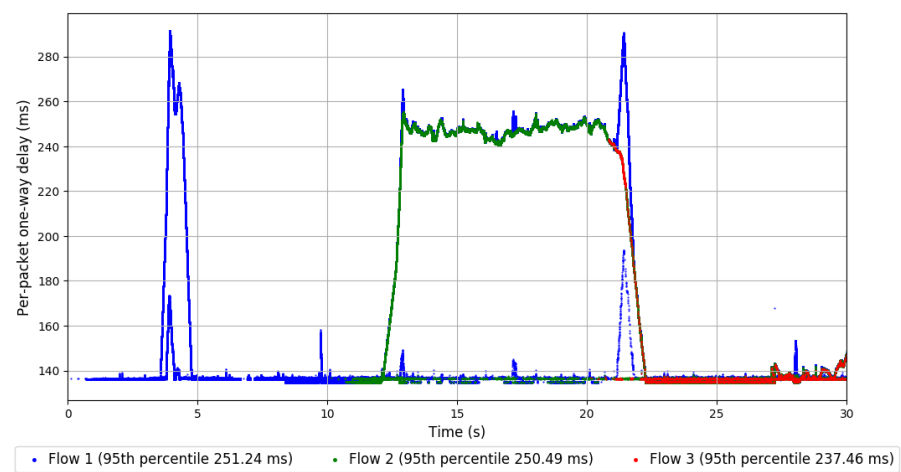
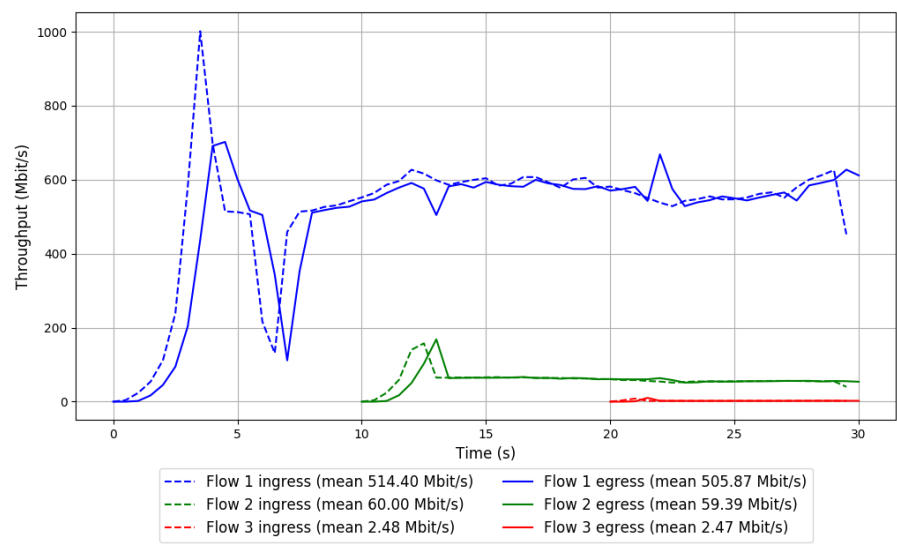
-- Flow 3:

Average throughput: 2.47 Mbit/s

95th percentile per-packet one-way delay: 237.457 ms

Loss rate: 0.10%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-06-06 07:27:27

End at: 2018-06-06 07:27:57

Local clock offset: -0.232 ms

Remote clock offset: 0.407 ms

Below is generated by plot.py at 2018-06-06 11:39:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 561.59 Mbit/s

95th percentile per-packet one-way delay: 254.361 ms

Loss rate: 2.39%

-- Flow 1:

Average throughput: 475.92 Mbit/s

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

Loss rate: 2.36%

-- Flow 2:

Average throughput: 124.78 Mbit/s

95th percentile per-packet one-way delay: 254.662 ms

Loss rate: 2.52%

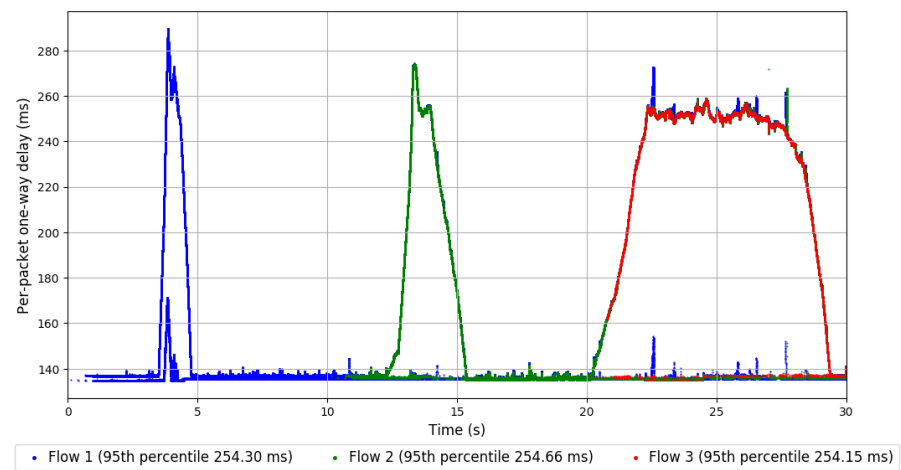
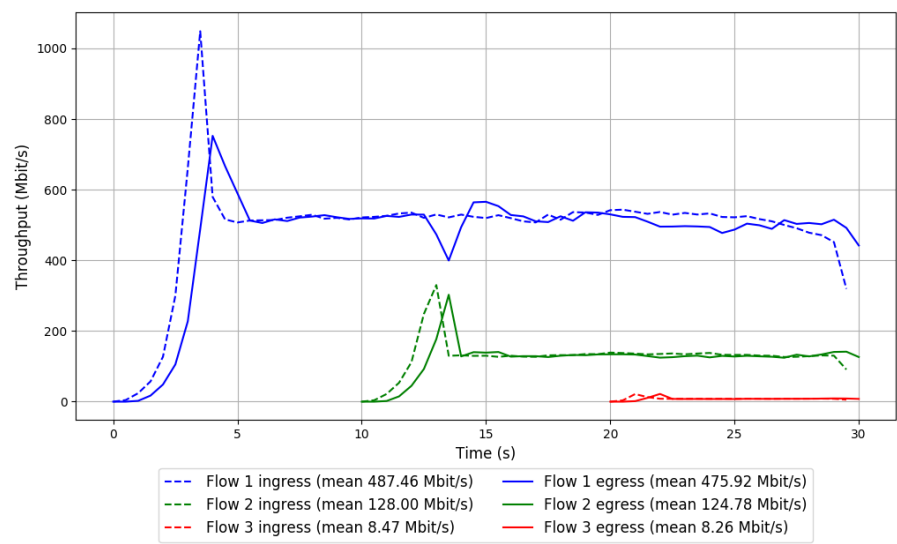
-- Flow 3:

Average throughput: 8.26 Mbit/s

95th percentile per-packet one-way delay: 254.149 ms

Loss rate: 2.47%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-06-06 07:52:06

End at: 2018-06-06 07:52:36

Local clock offset: 0.008 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-06-06 11:39:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 515.41 Mbit/s

95th percentile per-packet one-way delay: 284.528 ms

Loss rate: 4.92%

-- Flow 1:

Average throughput: 436.05 Mbit/s

95th percentile per-packet one-way delay: 284.306 ms

Loss rate: 4.80%

-- Flow 2:

Average throughput: 118.34 Mbit/s

95th percentile per-packet one-way delay: 285.225 ms

Loss rate: 5.55%

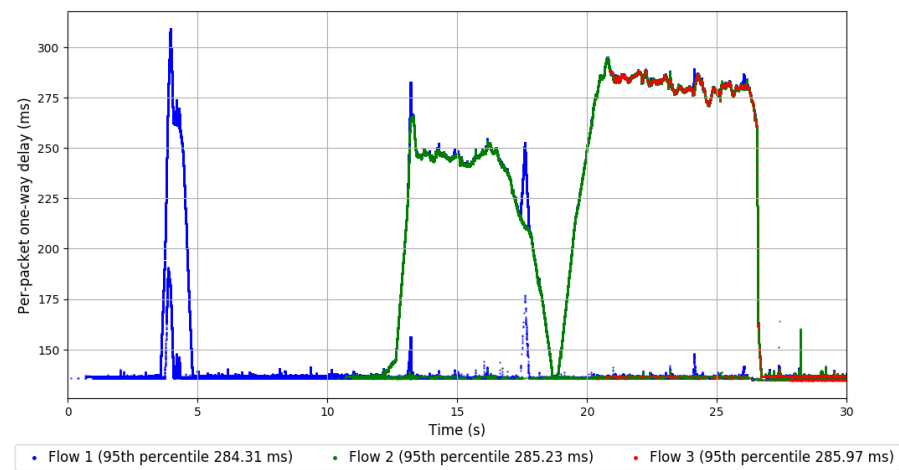
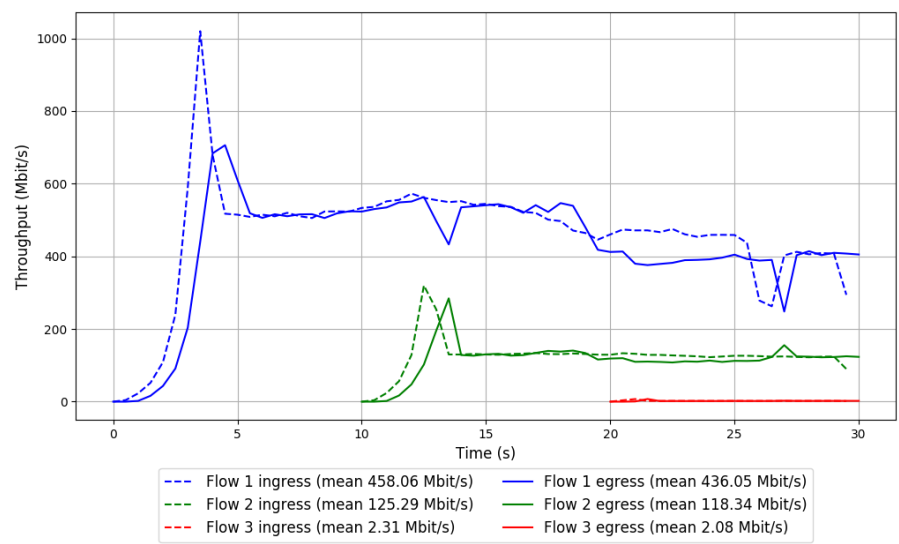
-- Flow 3:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 285.968 ms

Loss rate: 9.94%

Run 4: Report of PCC-Allegro — Data Link

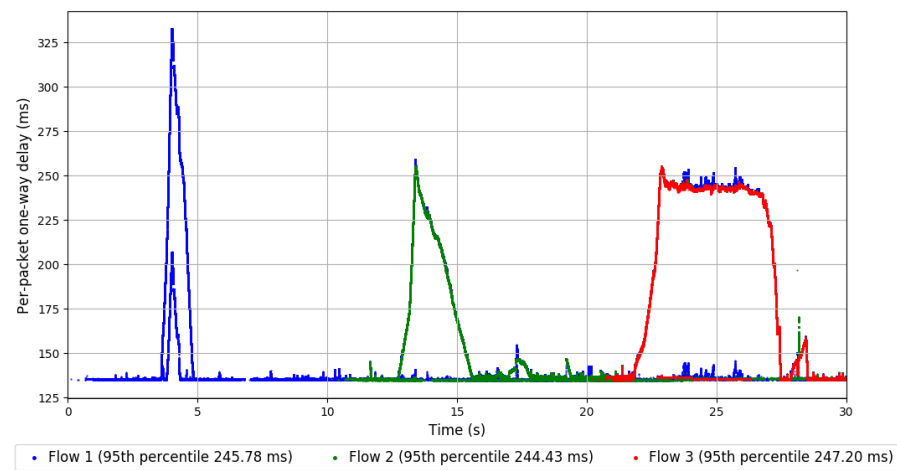
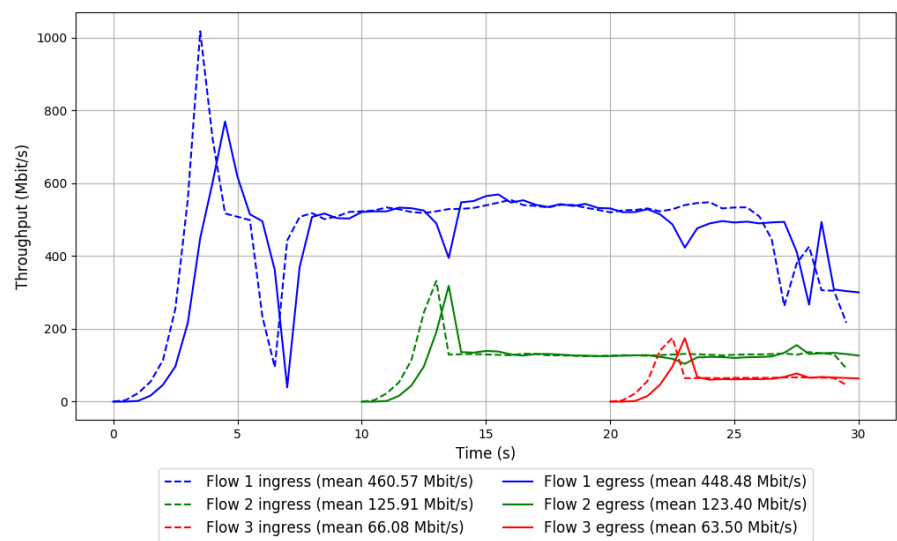


Run 5: Statistics of PCC-Allegro

Start at: 2018-06-06 08:16:48
End at: 2018-06-06 08:17:18
Local clock offset: 0.064 ms
Remote clock offset: -0.215 ms

Below is generated by plot.py at 2018-06-06 11:39:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 551.33 Mbit/s
95th percentile per-packet one-way delay: 245.618 ms
Loss rate: 2.58%
-- Flow 1:
Average throughput: 448.48 Mbit/s
95th percentile per-packet one-way delay: 245.783 ms
Loss rate: 2.62%
-- Flow 2:
Average throughput: 123.40 Mbit/s
95th percentile per-packet one-way delay: 244.432 ms
Loss rate: 2.00%
-- Flow 3:
Average throughput: 63.50 Mbit/s
95th percentile per-packet one-way delay: 247.201 ms
Loss rate: 3.90%

Run 5: Report of PCC-Allegro — Data Link

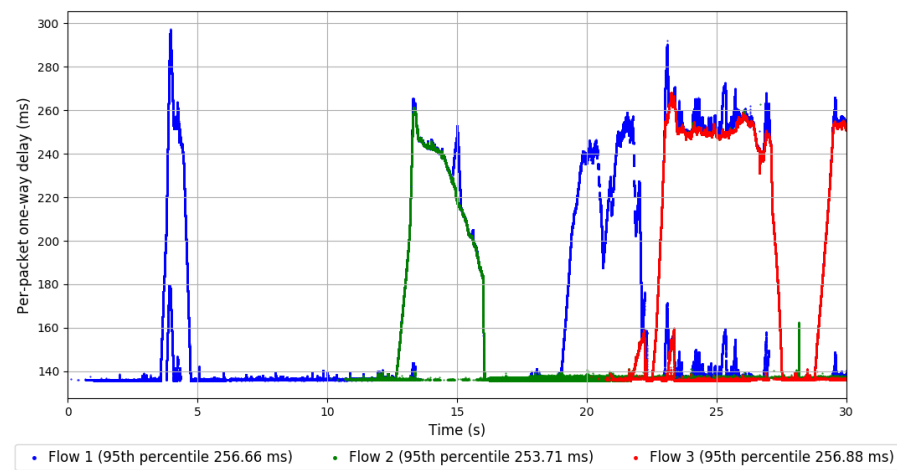
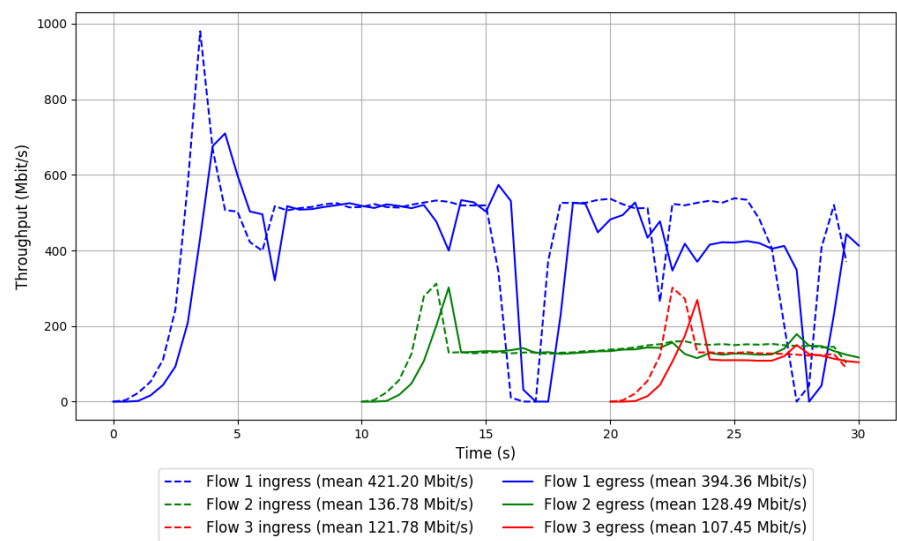


Run 6: Statistics of PCC-Allegro

Start at: 2018-06-06 08:41:56
End at: 2018-06-06 08:42:26
Local clock offset: -0.36 ms
Remote clock offset: -0.121 ms

Below is generated by plot.py at 2018-06-06 11:39:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 515.11 Mbit/s
95th percentile per-packet one-way delay: 256.163 ms
Loss rate: 6.71%
-- Flow 1:
Average throughput: 394.36 Mbit/s
95th percentile per-packet one-way delay: 256.661 ms
Loss rate: 6.37%
-- Flow 2:
Average throughput: 128.49 Mbit/s
95th percentile per-packet one-way delay: 253.711 ms
Loss rate: 6.06%
-- Flow 3:
Average throughput: 107.45 Mbit/s
95th percentile per-packet one-way delay: 256.882 ms
Loss rate: 11.78%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-06-06 09:07:00

End at: 2018-06-06 09:07:30

Local clock offset: -0.042 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-06-06 11:41:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 573.37 Mbit/s

95th percentile per-packet one-way delay: 241.431 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 527.49 Mbit/s

95th percentile per-packet one-way delay: 241.453 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 66.80 Mbit/s

95th percentile per-packet one-way delay: 241.510 ms

Loss rate: 0.30%

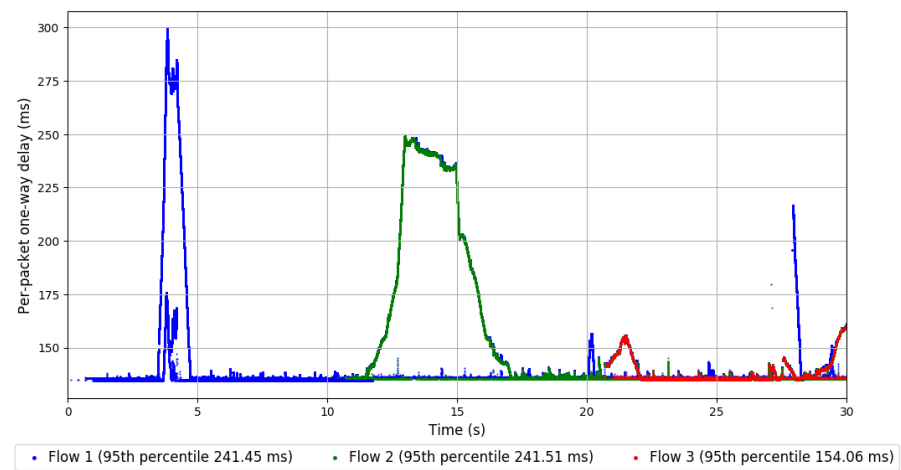
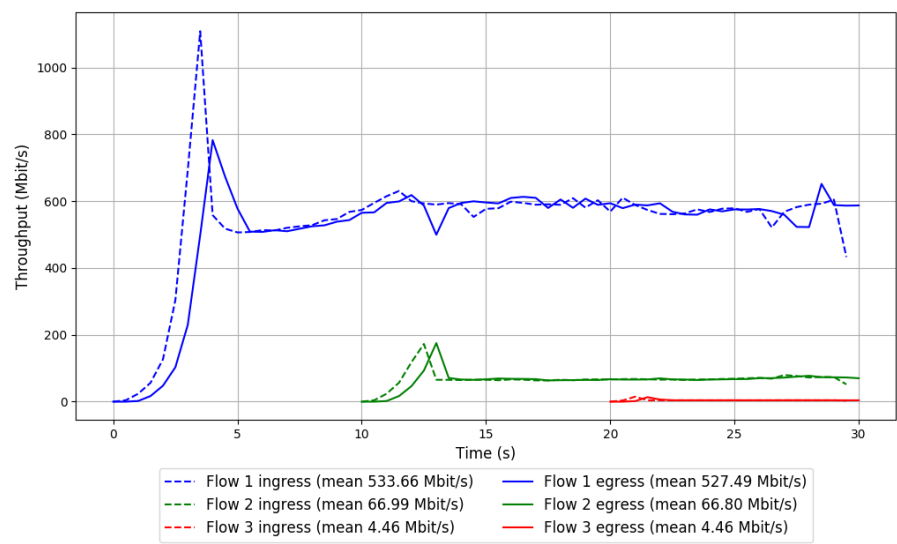
-- Flow 3:

Average throughput: 4.46 Mbit/s

95th percentile per-packet one-way delay: 154.061 ms

Loss rate: 0.19%

Run 7: Report of PCC-Allegro — Data Link

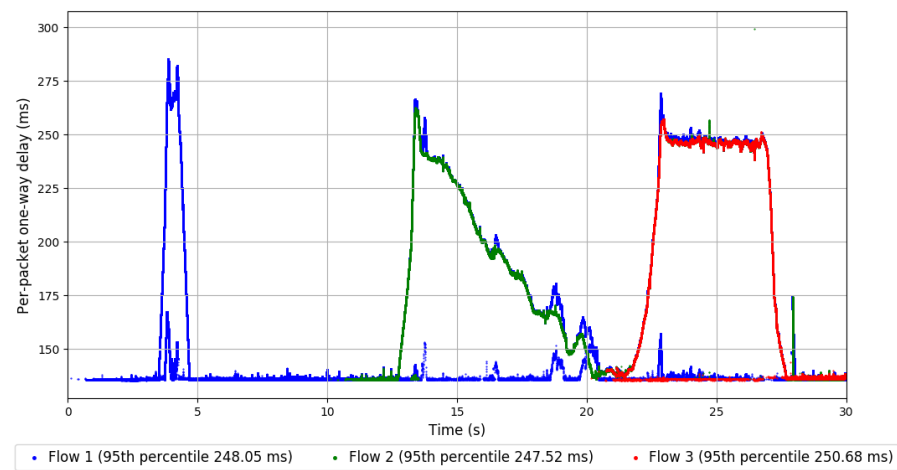
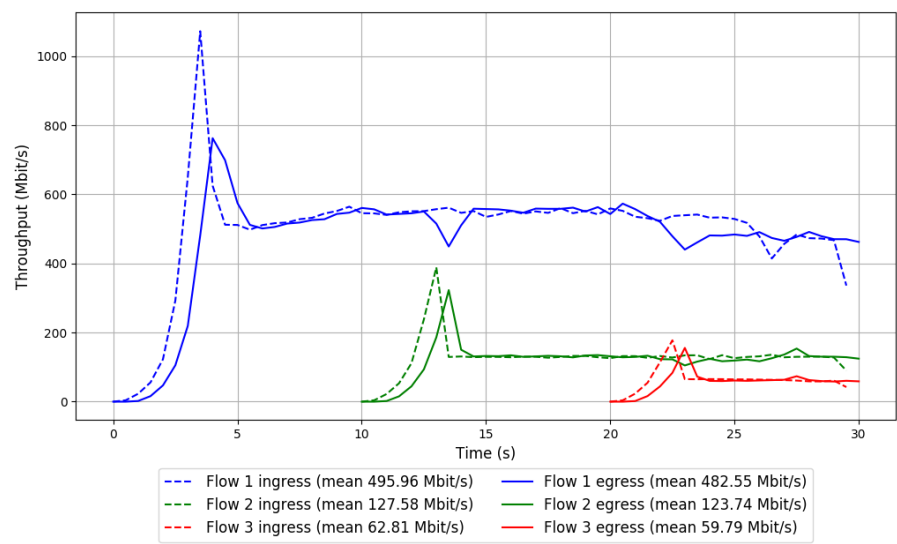


Run 8: Statistics of PCC-Allegro

Start at: 2018-06-06 09:31:45
End at: 2018-06-06 09:32:15
Local clock offset: -0.224 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-06-06 11:42:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 584.47 Mbit/s
95th percentile per-packet one-way delay: 248.023 ms
Loss rate: 2.82%
-- Flow 1:
Average throughput: 482.55 Mbit/s
95th percentile per-packet one-way delay: 248.053 ms
Loss rate: 2.70%
-- Flow 2:
Average throughput: 123.74 Mbit/s
95th percentile per-packet one-way delay: 247.523 ms
Loss rate: 3.01%
-- Flow 3:
Average throughput: 59.79 Mbit/s
95th percentile per-packet one-way delay: 250.684 ms
Loss rate: 4.80%

Run 8: Report of PCC-Allegro — Data Link

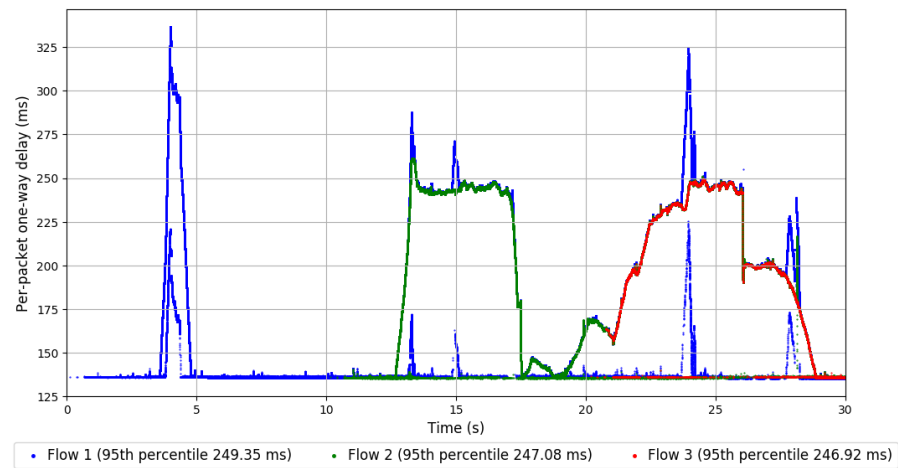
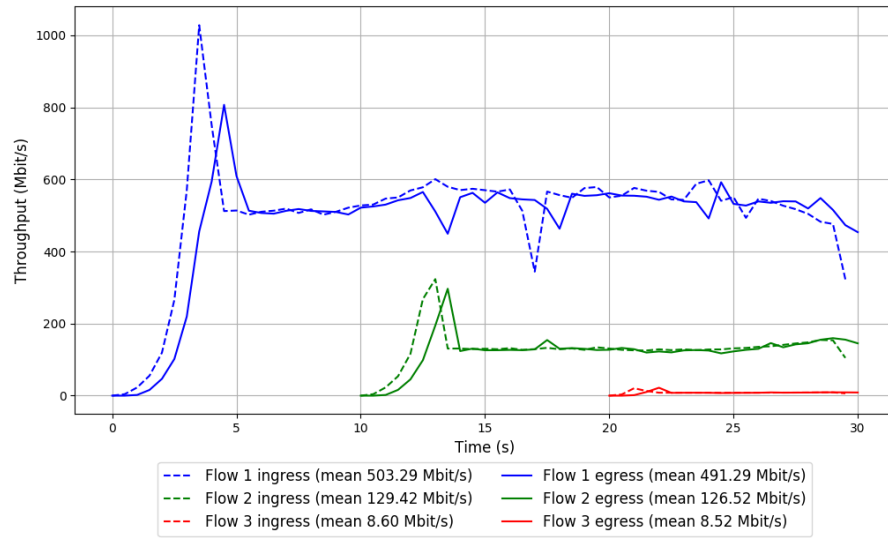


Run 9: Statistics of PCC-Allegro

Start at: 2018-06-06 09:56:46
End at: 2018-06-06 09:57:16
Local clock offset: -0.111 ms
Remote clock offset: -0.045 ms

Below is generated by plot.py at 2018-06-06 11:42:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 578.19 Mbit/s
95th percentile per-packet one-way delay: 248.081 ms
Loss rate: 2.36%
-- Flow 1:
Average throughput: 491.29 Mbit/s
95th percentile per-packet one-way delay: 249.353 ms
Loss rate: 2.39%
-- Flow 2:
Average throughput: 126.52 Mbit/s
95th percentile per-packet one-way delay: 247.082 ms
Loss rate: 2.24%
-- Flow 3:
Average throughput: 8.52 Mbit/s
95th percentile per-packet one-way delay: 246.916 ms
Loss rate: 0.98%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-06-06 10:21:40

End at: 2018-06-06 10:22:10

Local clock offset: 0.009 ms

Remote clock offset: 0.389 ms

Below is generated by plot.py at 2018-06-06 11:42:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 588.96 Mbit/s

95th percentile per-packet one-way delay: 238.324 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 542.13 Mbit/s

95th percentile per-packet one-way delay: 238.334 ms

Loss rate: 1.27%

-- Flow 2:

Average throughput: 66.32 Mbit/s

95th percentile per-packet one-way delay: 238.602 ms

Loss rate: 0.92%

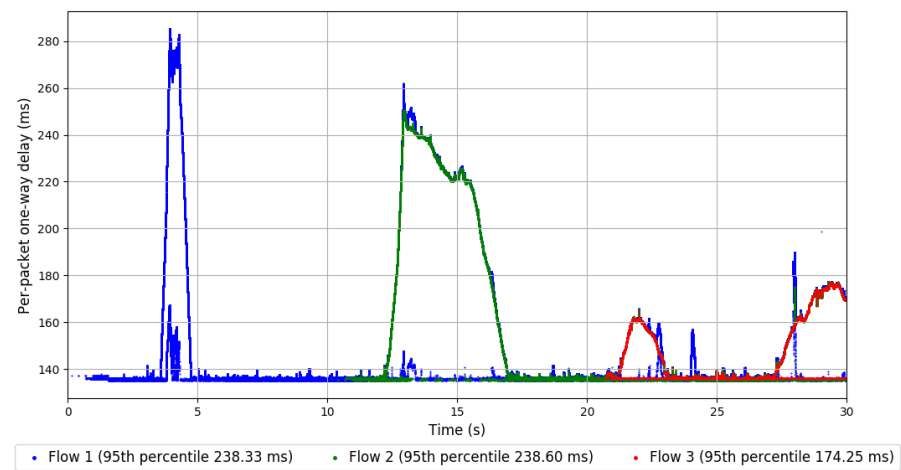
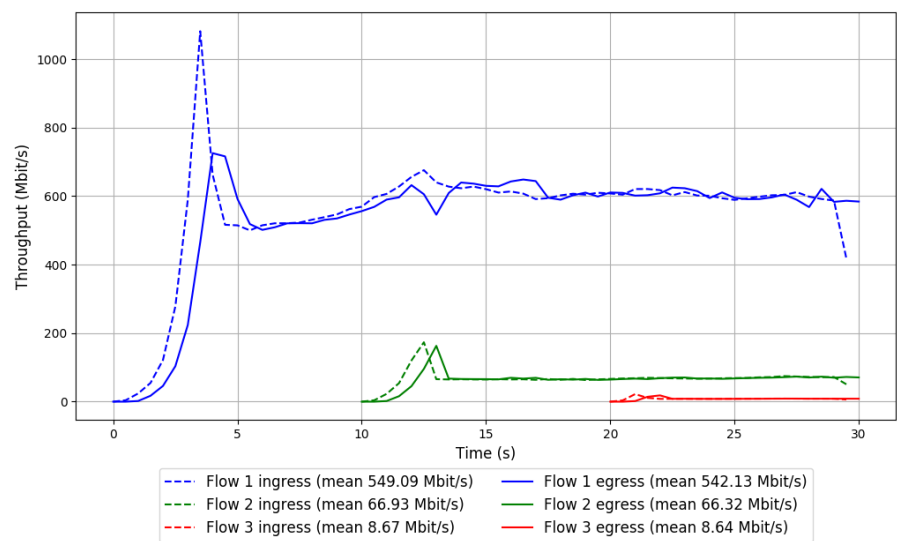
-- Flow 3:

Average throughput: 8.64 Mbit/s

95th percentile per-packet one-way delay: 174.248 ms

Loss rate: 0.34%

Run 10: Report of PCC-Allegro — Data Link

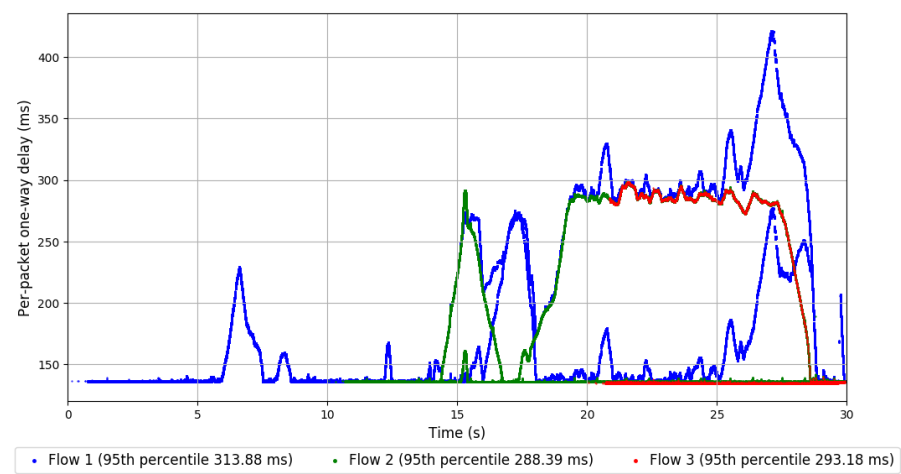
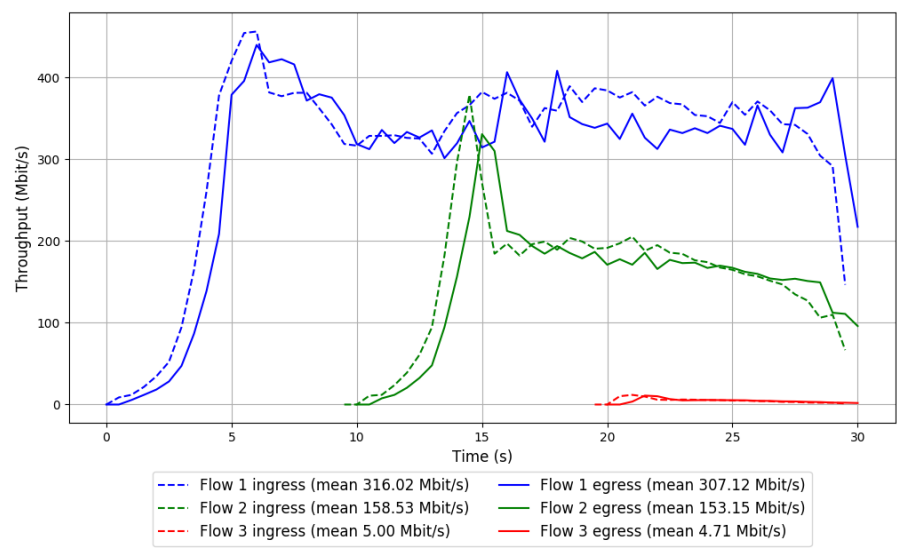


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-06 06:14:22
End at: 2018-06-06 06:14:52
Local clock offset: -0.03 ms
Remote clock offset: 0.231 ms

# Below is generated by plot.py at 2018-06-06 11:47:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 410.85 Mbit/s
95th percentile per-packet one-way delay: 300.218 ms
Loss rate: 2.97%
-- Flow 1:
Average throughput: 307.12 Mbit/s
95th percentile per-packet one-way delay: 313.878 ms
Loss rate: 2.82%
-- Flow 2:
Average throughput: 153.15 Mbit/s
95th percentile per-packet one-way delay: 288.387 ms
Loss rate: 3.40%
-- Flow 3:
Average throughput: 4.71 Mbit/s
95th percentile per-packet one-way delay: 293.180 ms
Loss rate: 5.66%
```

Run 1: Report of PCC-Expr — Data Link

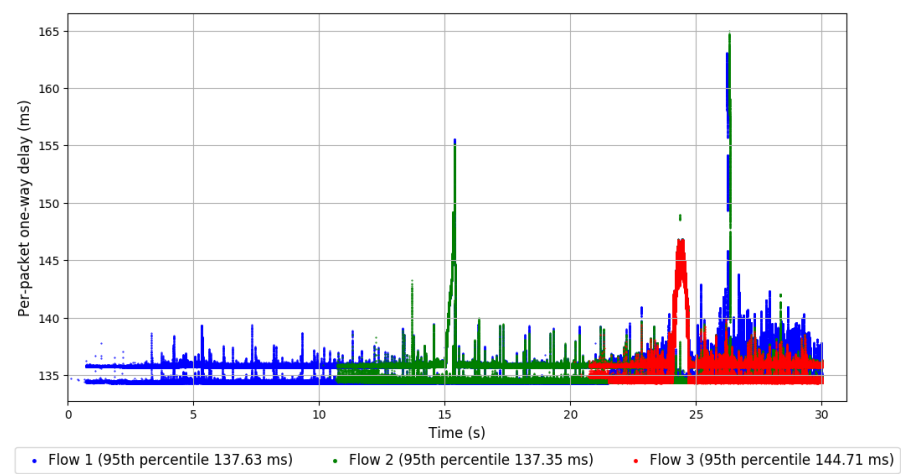
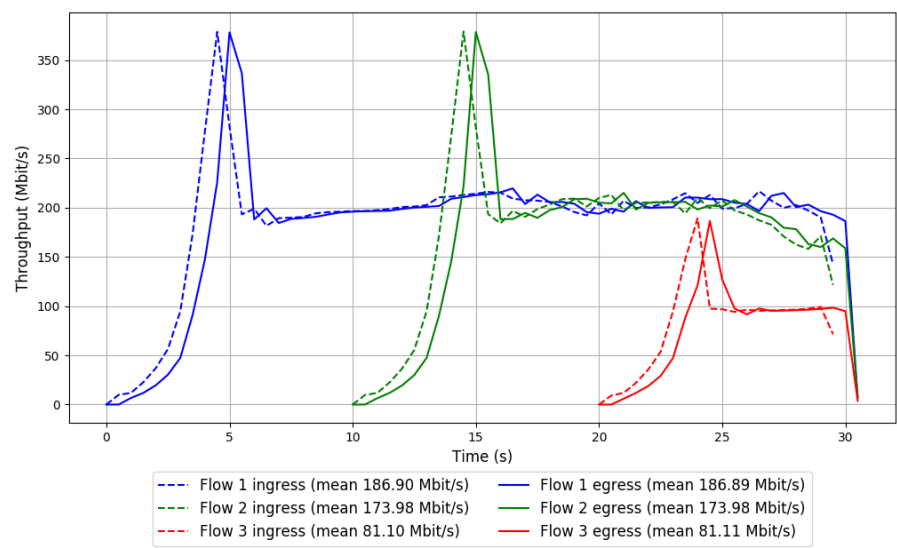


```
Run 2: Statistics of PCC-Expr

Start at: 2018-06-06 06:39:20
End at: 2018-06-06 06:39:50
Local clock offset: 0.073 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2018-06-06 11:47:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 329.38 Mbit/s
95th percentile per-packet one-way delay: 138.067 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 186.89 Mbit/s
95th percentile per-packet one-way delay: 137.630 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 173.98 Mbit/s
95th percentile per-packet one-way delay: 137.353 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 81.11 Mbit/s
95th percentile per-packet one-way delay: 144.706 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-06-06 07:04:03

End at: 2018-06-06 07:04:33

Local clock offset: 0.086 ms

Remote clock offset: 0.341 ms

Below is generated by plot.py at 2018-06-06 11:50:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 375.06 Mbit/s

95th percentile per-packet one-way delay: 280.306 ms

Loss rate: 2.72%

-- Flow 1:

Average throughput: 217.55 Mbit/s

95th percentile per-packet one-way delay: 294.332 ms

Loss rate: 2.84%

-- Flow 2:

Average throughput: 164.22 Mbit/s

95th percentile per-packet one-way delay: 208.797 ms

Loss rate: 1.55%

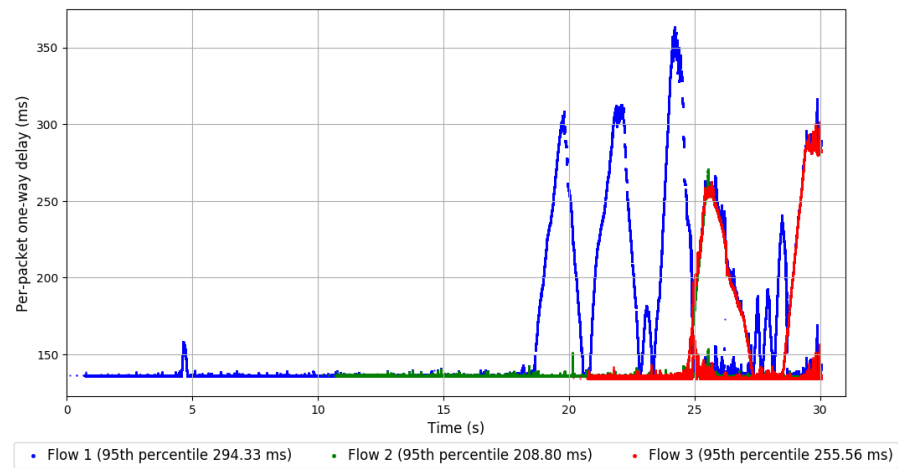
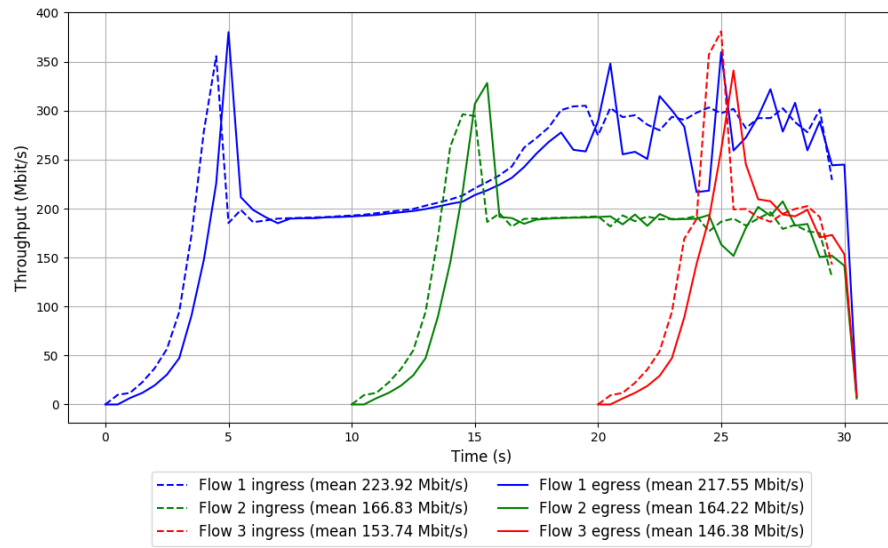
-- Flow 3:

Average throughput: 146.38 Mbit/s

95th percentile per-packet one-way delay: 255.556 ms

Loss rate: 4.76%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-06-06 07:29:08

End at: 2018-06-06 07:29:38

Local clock offset: -0.039 ms

Remote clock offset: 0.381 ms

Below is generated by plot.py at 2018-06-06 11:51:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 381.03 Mbit/s

95th percentile per-packet one-way delay: 257.248 ms

Loss rate: 1.34%

-- Flow 1:

Average throughput: 255.31 Mbit/s

95th percentile per-packet one-way delay: 259.376 ms

Loss rate: 1.98%

-- Flow 2:

Average throughput: 166.66 Mbit/s

95th percentile per-packet one-way delay: 151.123 ms

Loss rate: 0.00%

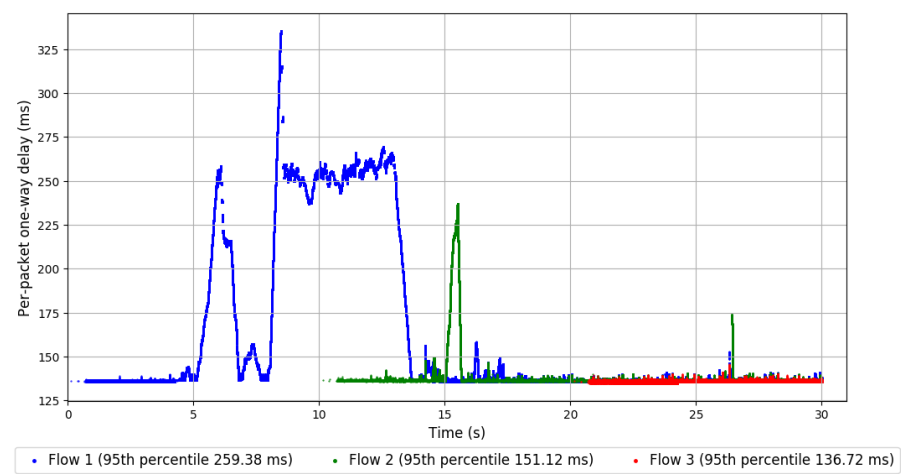
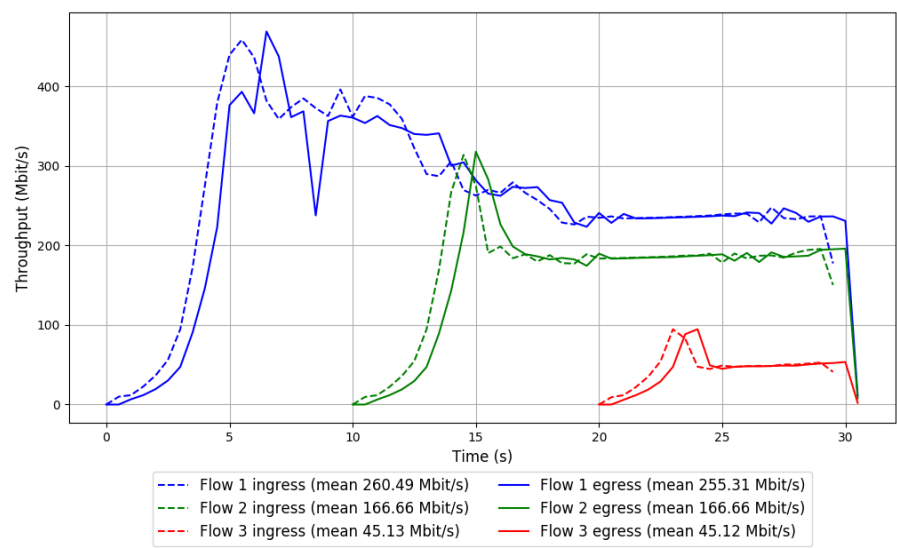
-- Flow 3:

Average throughput: 45.12 Mbit/s

95th percentile per-packet one-way delay: 136.716 ms

Loss rate: 0.00%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-06-06 07:53:44

End at: 2018-06-06 07:54:14

Local clock offset: -0.097 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2018-06-06 11:51:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 292.67 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 163.76 Mbit/s

95th percentile per-packet one-way delay: 136.778 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 171.46 Mbit/s

95th percentile per-packet one-way delay: 137.013 ms

Loss rate: 0.00%

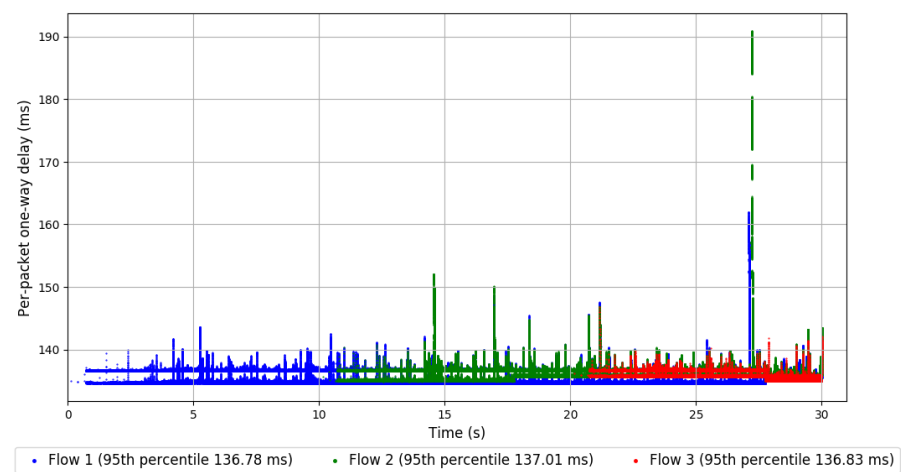
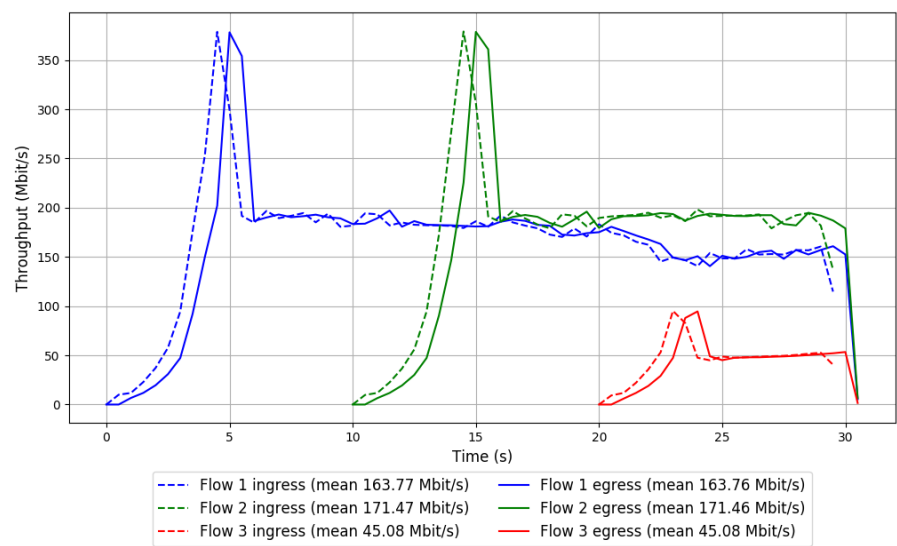
-- Flow 3:

Average throughput: 45.08 Mbit/s

95th percentile per-packet one-way delay: 136.834 ms

Loss rate: 0.00%

Run 5: Report of PCC-Expr — Data Link

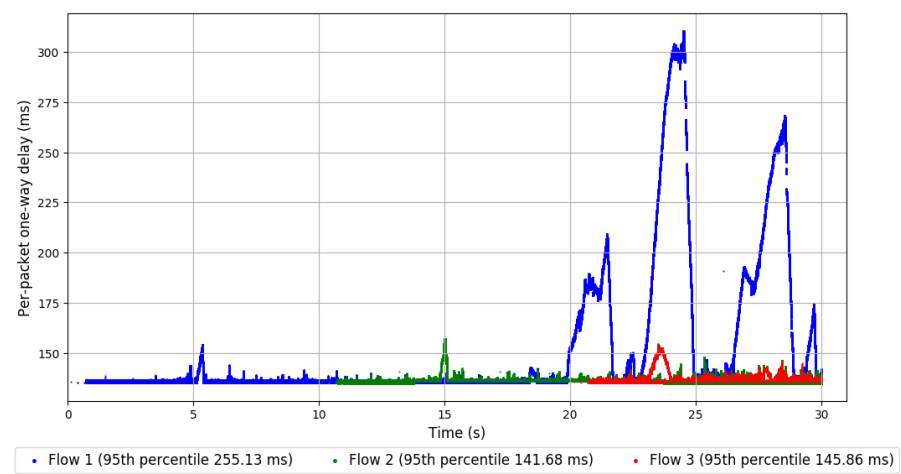
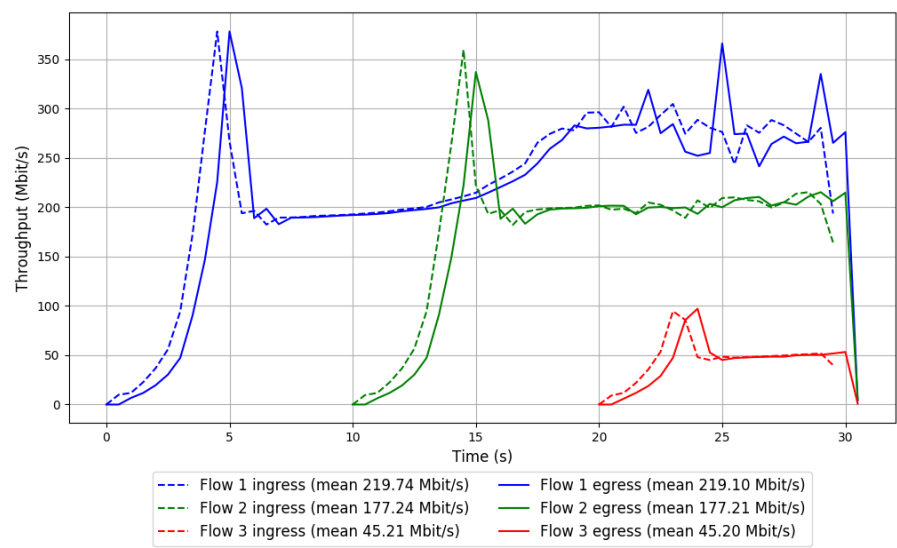


Run 6: Statistics of PCC-Expr

Start at: 2018-06-06 08:18:28
End at: 2018-06-06 08:18:58
Local clock offset: -0.068 ms
Remote clock offset: -0.173 ms

Below is generated by plot.py at 2018-06-06 11:53:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 351.88 Mbit/s
95th percentile per-packet one-way delay: 229.941 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 219.10 Mbit/s
95th percentile per-packet one-way delay: 255.135 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 177.21 Mbit/s
95th percentile per-packet one-way delay: 141.684 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 45.20 Mbit/s
95th percentile per-packet one-way delay: 145.863 ms
Loss rate: 0.02%

Run 6: Report of PCC-Expr — Data Link

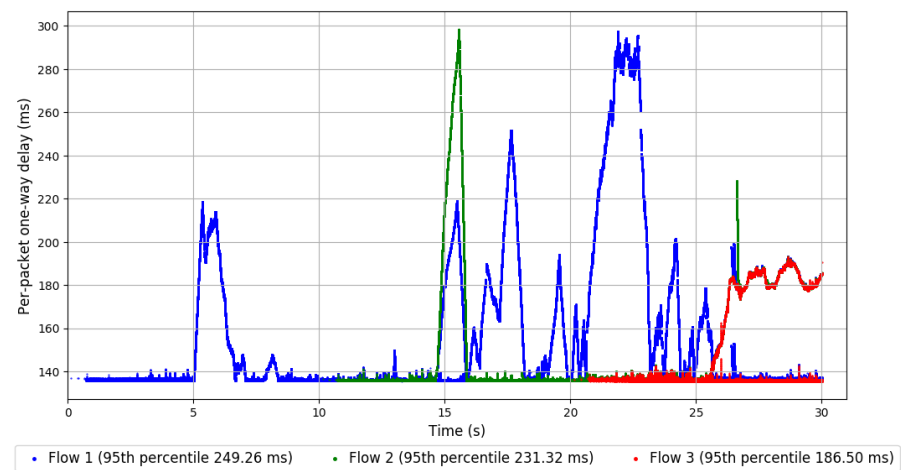
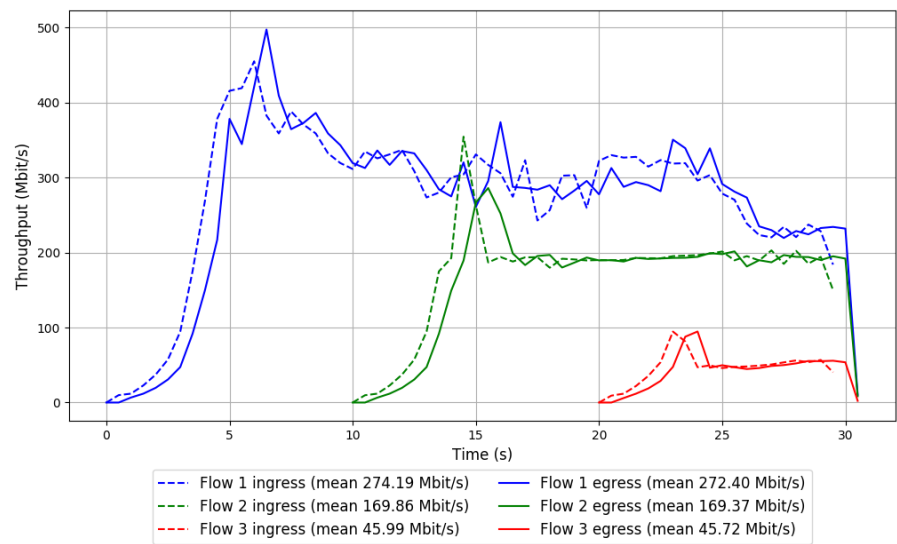


Run 7: Statistics of PCC-Expr

Start at: 2018-06-06 08:43:35
End at: 2018-06-06 08:44:05
Local clock offset: -0.128 ms
Remote clock offset: -0.129 ms

Below is generated by plot.py at 2018-06-06 11:55:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 400.09 Mbit/s
95th percentile per-packet one-way delay: 242.445 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 272.40 Mbit/s
95th percentile per-packet one-way delay: 249.263 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 169.37 Mbit/s
95th percentile per-packet one-way delay: 231.318 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 45.72 Mbit/s
95th percentile per-packet one-way delay: 186.497 ms
Loss rate: 0.53%

Run 7: Report of PCC-Expr — Data Link

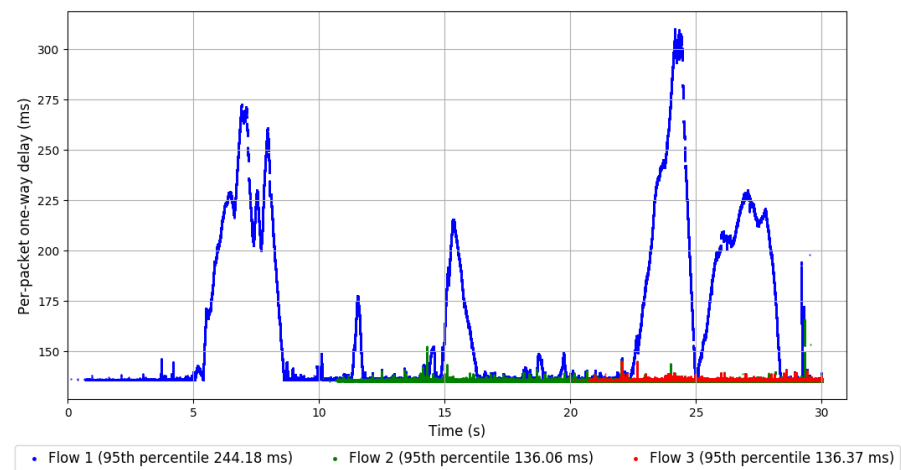
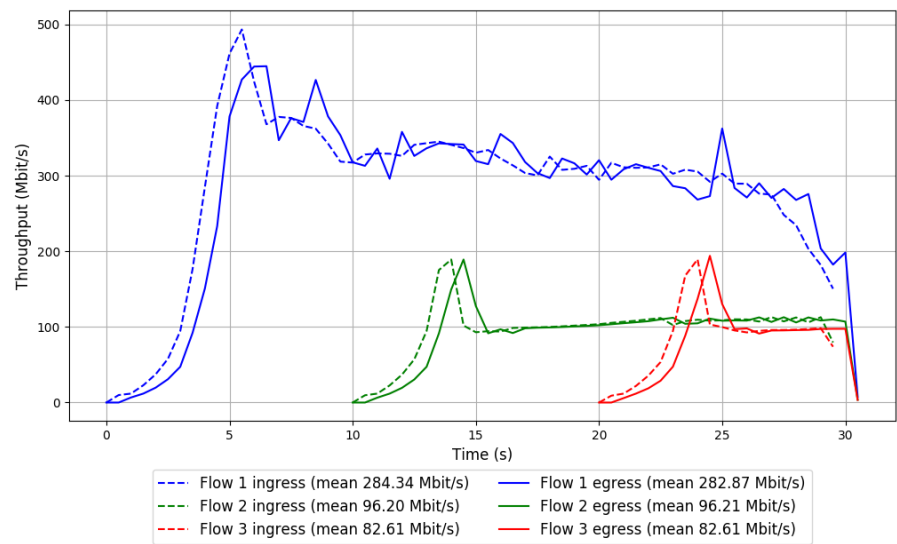


Run 8: Statistics of PCC-Expr

Start at: 2018-06-06 09:08:42
End at: 2018-06-06 09:09:12
Local clock offset: -0.214 ms
Remote clock offset: -0.085 ms

Below is generated by plot.py at 2018-06-06 11:55:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 374.08 Mbit/s
95th percentile per-packet one-way delay: 235.080 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 282.87 Mbit/s
95th percentile per-packet one-way delay: 244.175 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 96.21 Mbit/s
95th percentile per-packet one-way delay: 136.064 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 82.61 Mbit/s
95th percentile per-packet one-way delay: 136.365 ms
Loss rate: 0.00%

Run 8: Report of PCC-Expr — Data Link

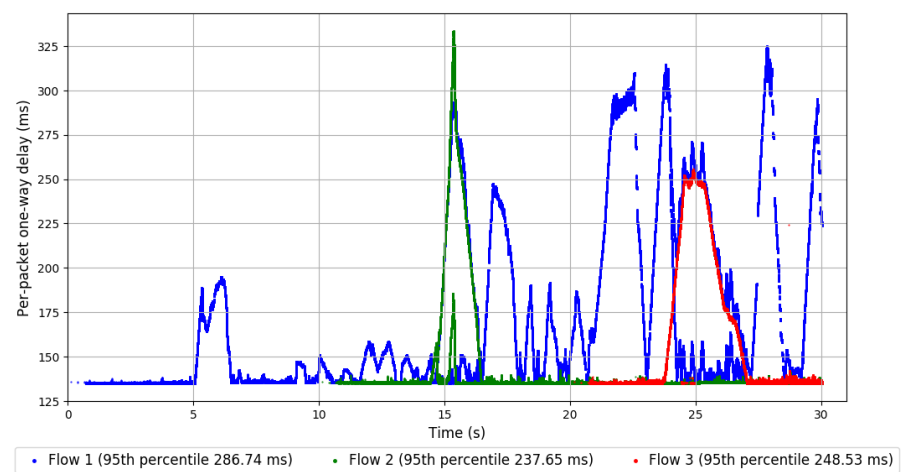
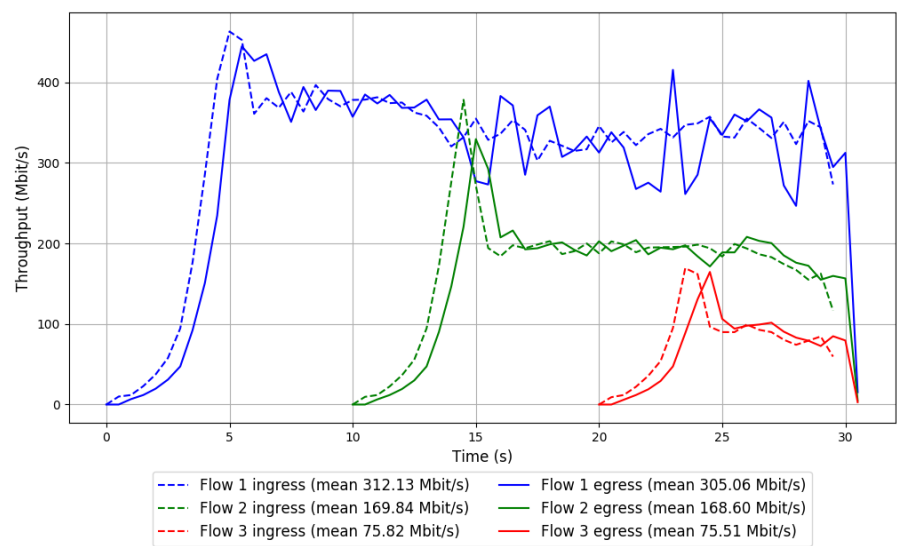


Run 9: Statistics of PCC-Expr

Start at: 2018-06-06 09:33:27
End at: 2018-06-06 09:33:57
Local clock offset: 0.249 ms
Remote clock offset: -0.041 ms

Below is generated by plot.py at 2018-06-06 12:00:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 442.09 Mbit/s
95th percentile per-packet one-way delay: 270.239 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 305.06 Mbit/s
95th percentile per-packet one-way delay: 286.741 ms
Loss rate: 2.26%
-- Flow 2:
Average throughput: 168.60 Mbit/s
95th percentile per-packet one-way delay: 237.651 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 75.51 Mbit/s
95th percentile per-packet one-way delay: 248.530 ms
Loss rate: 0.42%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-06-06 09:58:27

End at: 2018-06-06 09:58:57

Local clock offset: 0.326 ms

Remote clock offset: 0.323 ms

Below is generated by plot.py at 2018-06-06 12:00:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 341.68 Mbit/s

95th percentile per-packet one-way delay: 137.600 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 174.73 Mbit/s

95th percentile per-packet one-way delay: 137.018 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 175.89 Mbit/s

95th percentile per-packet one-way delay: 136.845 ms

Loss rate: 0.00%

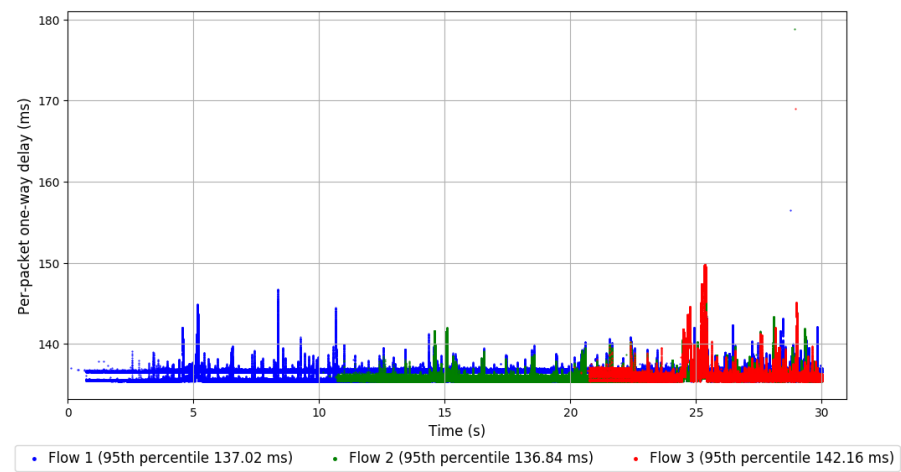
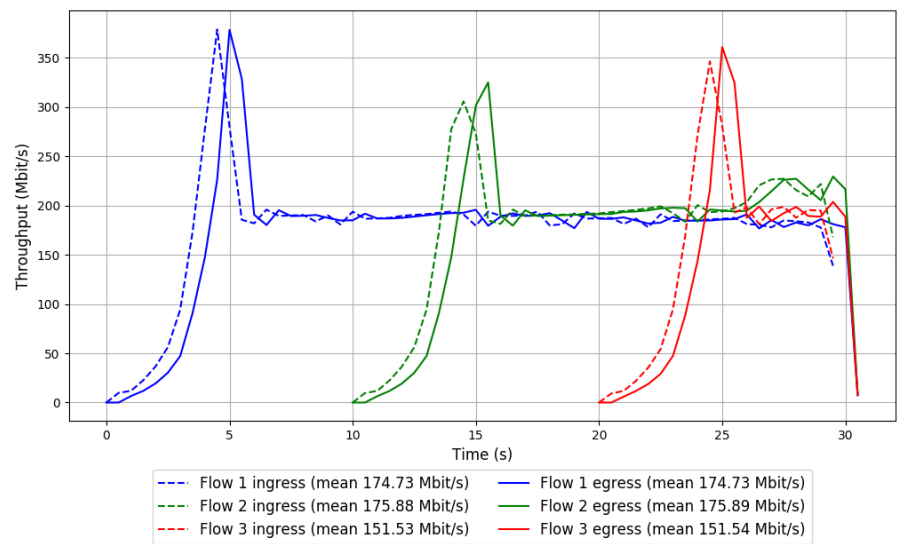
-- Flow 3:

Average throughput: 151.54 Mbit/s

95th percentile per-packet one-way delay: 142.159 ms

Loss rate: 0.01%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

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

End at: 2018-06-06 06:35:36

Local clock offset: -0.286 ms

Remote clock offset: 0.635 ms

Below is generated by plot.py at 2018-06-06 12:00:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.65 Mbit/s

95th percentile per-packet one-way delay: 136.847 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.04 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.09 Mbit/s

95th percentile per-packet one-way delay: 136.863 ms

Loss rate: 0.00%

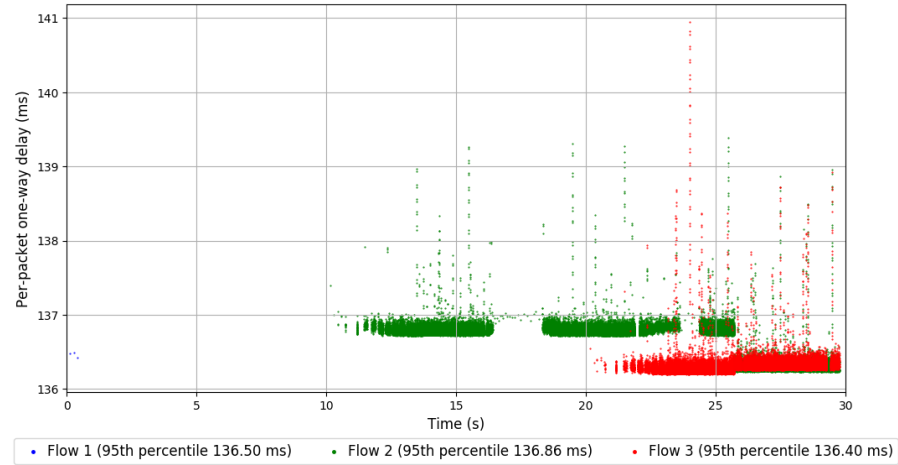
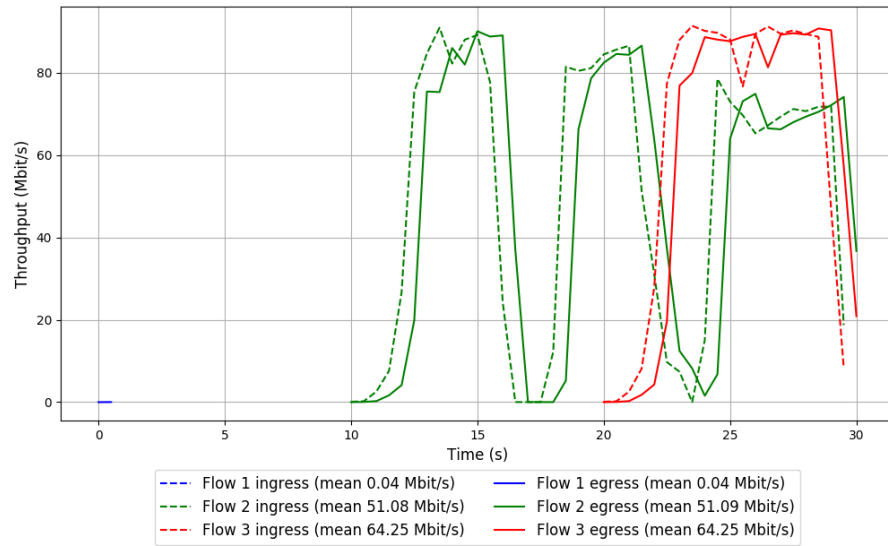
-- Flow 3:

Average throughput: 64.25 Mbit/s

95th percentile per-packet one-way delay: 136.400 ms

Loss rate: 0.01%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-06-06 06:59:46

End at: 2018-06-06 07:00:16

Local clock offset: -0.344 ms

Remote clock offset: 0.362 ms

Below is generated by plot.py at 2018-06-06 12:00:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 111.03 Mbit/s

95th percentile per-packet one-way delay: 136.672 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 51.01 Mbit/s

95th percentile per-packet one-way delay: 136.045 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.97 Mbit/s

95th percentile per-packet one-way delay: 136.722 ms

Loss rate: 0.00%

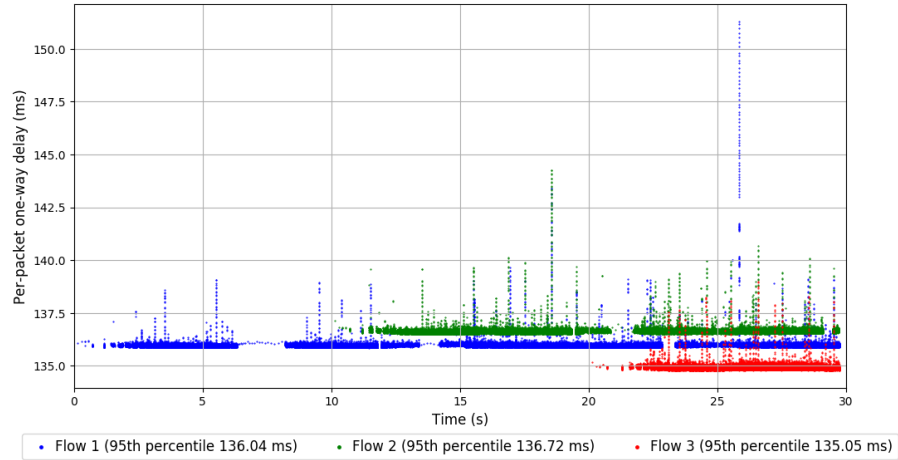
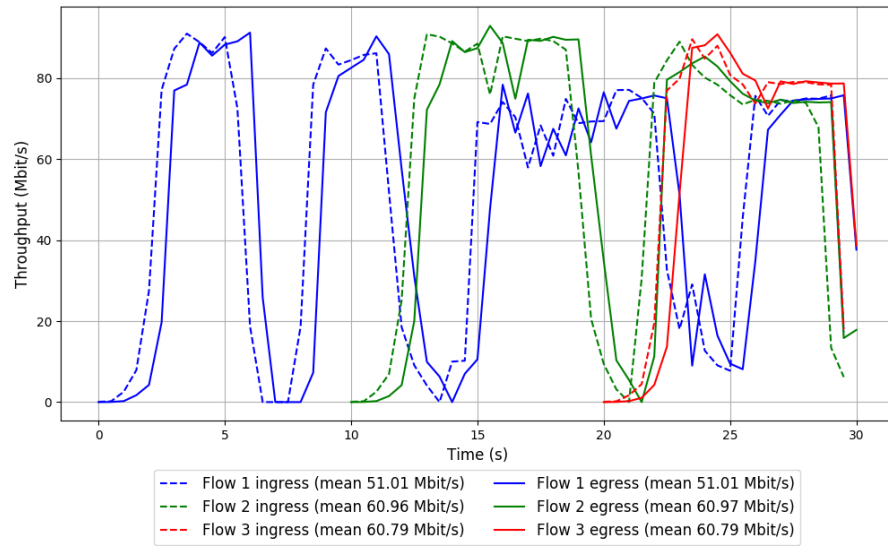
-- Flow 3:

Average throughput: 60.79 Mbit/s

95th percentile per-packet one-way delay: 135.047 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-06-06 07:24:49

End at: 2018-06-06 07:25:19

Local clock offset: 0.155 ms

Remote clock offset: 0.394 ms

Below is generated by plot.py at 2018-06-06 12:00:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.82 Mbit/s

95th percentile per-packet one-way delay: 136.383 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.40 Mbit/s

95th percentile per-packet one-way delay: 135.805 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.74 Mbit/s

95th percentile per-packet one-way delay: 135.866 ms

Loss rate: 0.00%

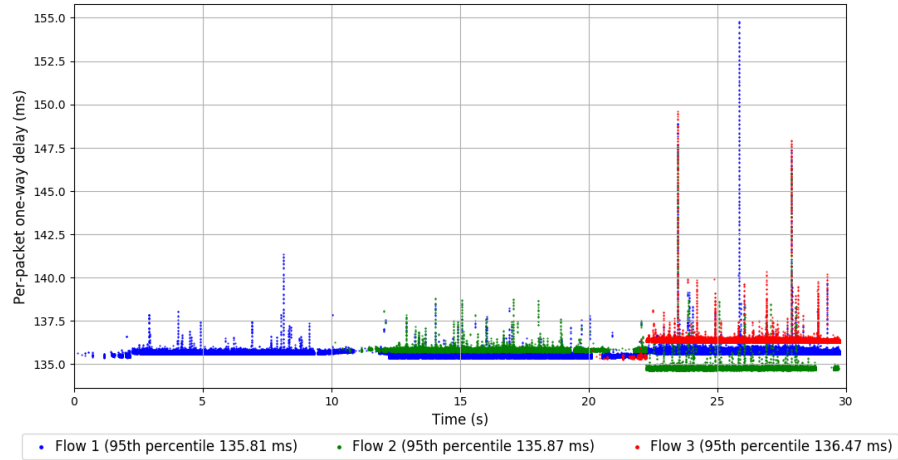
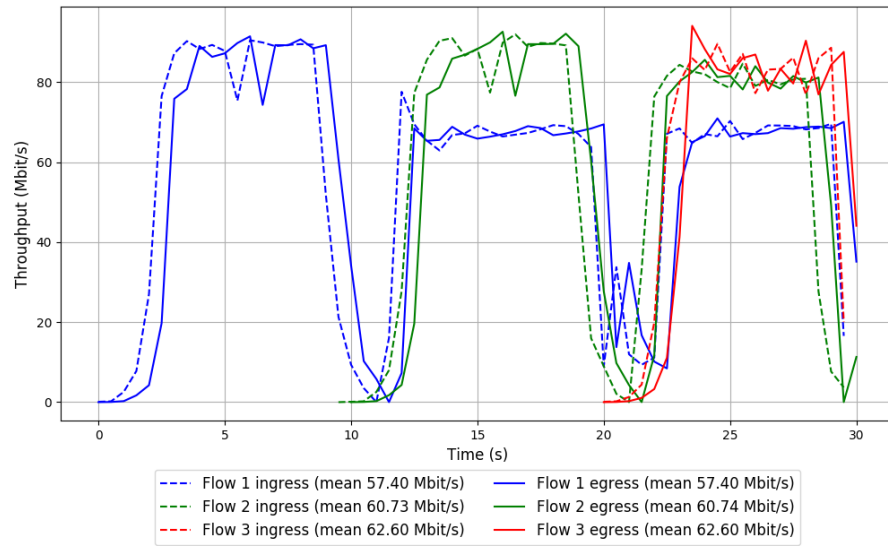
-- Flow 3:

Average throughput: 62.60 Mbit/s

95th percentile per-packet one-way delay: 136.474 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-06-06 07:49:28

End at: 2018-06-06 07:49:58

Local clock offset: -0.257 ms

Remote clock offset: 0.082 ms

Below is generated by plot.py at 2018-06-06 12:00:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 113.20 Mbit/s

95th percentile per-packet one-way delay: 137.081 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.23 Mbit/s

95th percentile per-packet one-way delay: 137.122 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.61 Mbit/s

95th percentile per-packet one-way delay: 136.134 ms

Loss rate: 0.00%

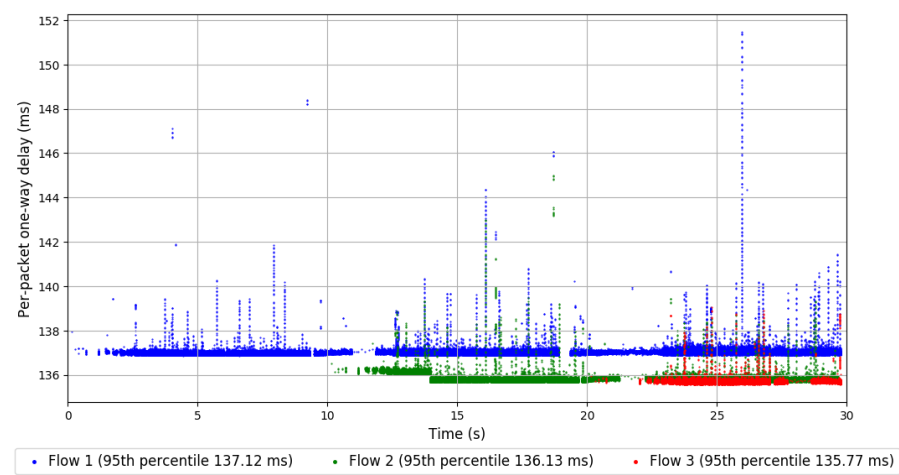
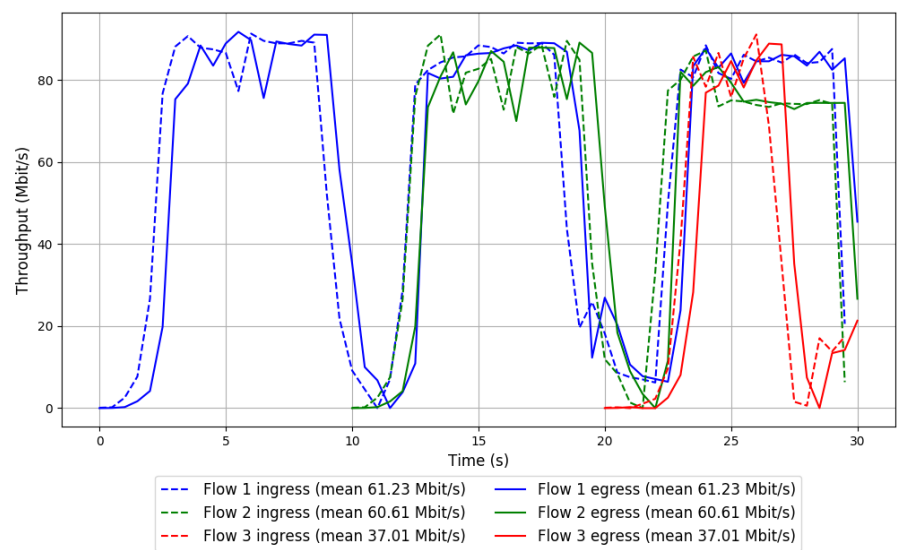
-- Flow 3:

Average throughput: 37.01 Mbit/s

95th percentile per-packet one-way delay: 135.773 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link

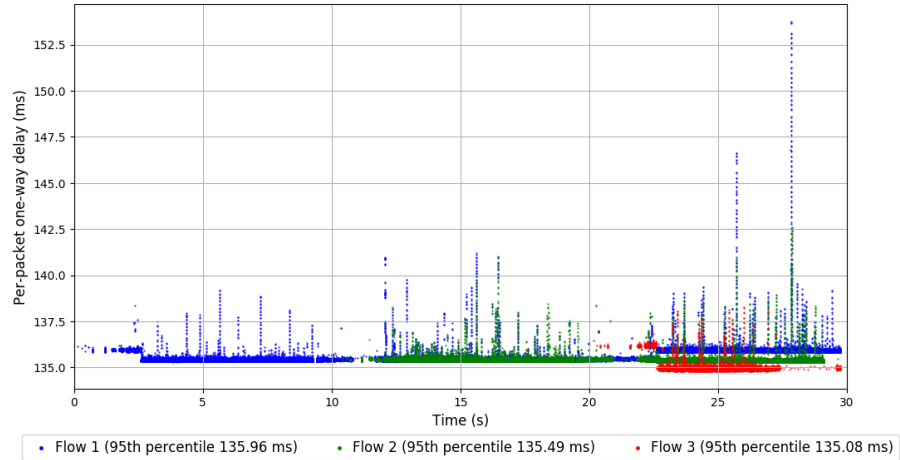
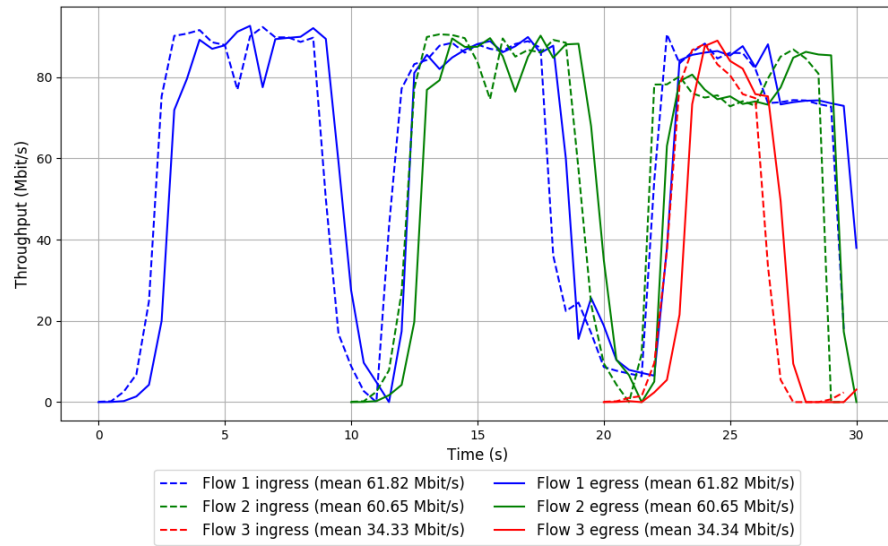


Run 5: Statistics of QUIC Cubic

Start at: 2018-06-06 08:14:09
End at: 2018-06-06 08:14:39
Local clock offset: -0.014 ms
Remote clock offset: -0.246 ms

Below is generated by plot.py at 2018-06-06 12:00:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 112.89 Mbit/s
95th percentile per-packet one-way delay: 135.937 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.82 Mbit/s
95th percentile per-packet one-way delay: 135.959 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 60.65 Mbit/s
95th percentile per-packet one-way delay: 135.489 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 34.34 Mbit/s
95th percentile per-packet one-way delay: 135.083 ms
Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

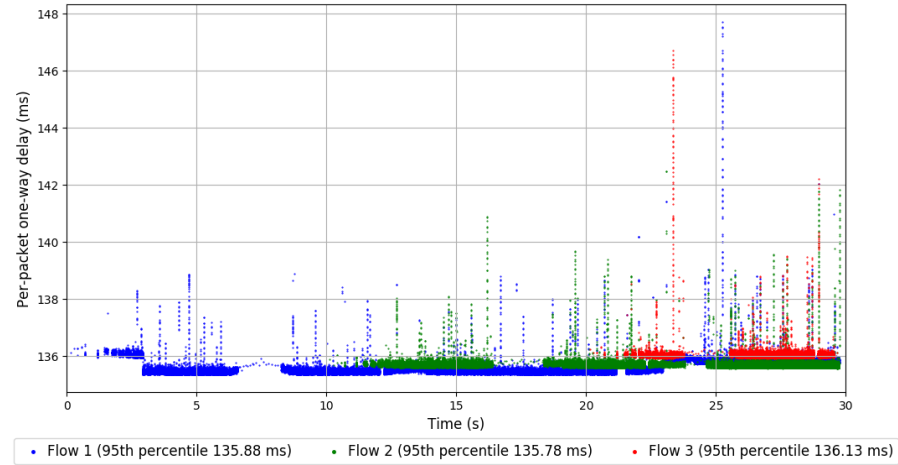
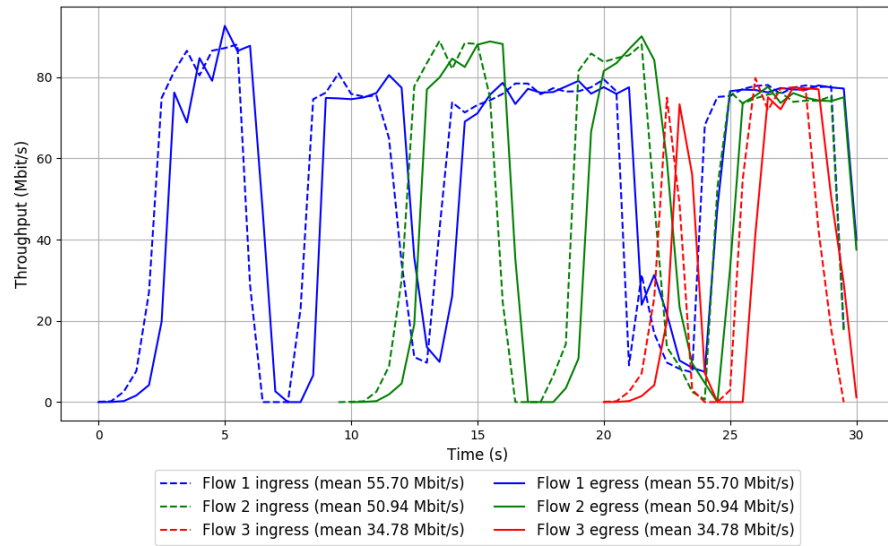


Run 6: Statistics of QUIC Cubic

Start at: 2018-06-06 08:39:19
End at: 2018-06-06 08:39:49
Local clock offset: -0.155 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2018-06-06 12:00:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 100.65 Mbit/s
95th percentile per-packet one-way delay: 136.033 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.70 Mbit/s
95th percentile per-packet one-way delay: 135.881 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 50.94 Mbit/s
95th percentile per-packet one-way delay: 135.779 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 34.78 Mbit/s
95th percentile per-packet one-way delay: 136.127 ms
Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link

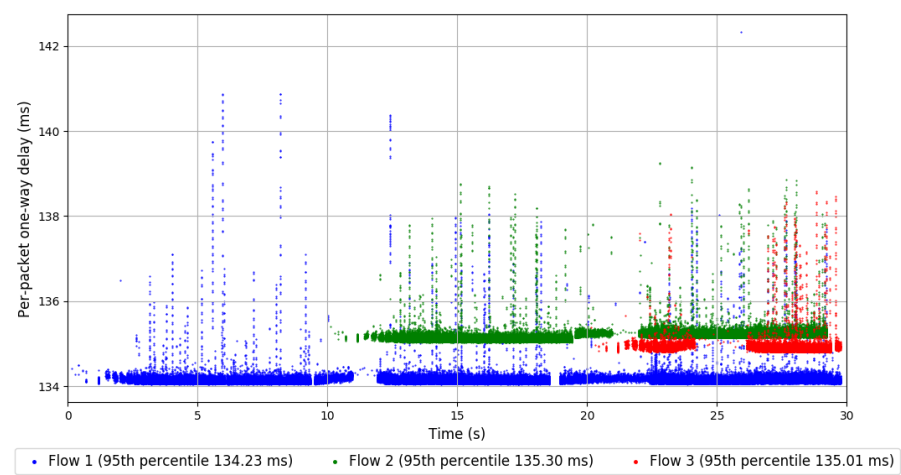
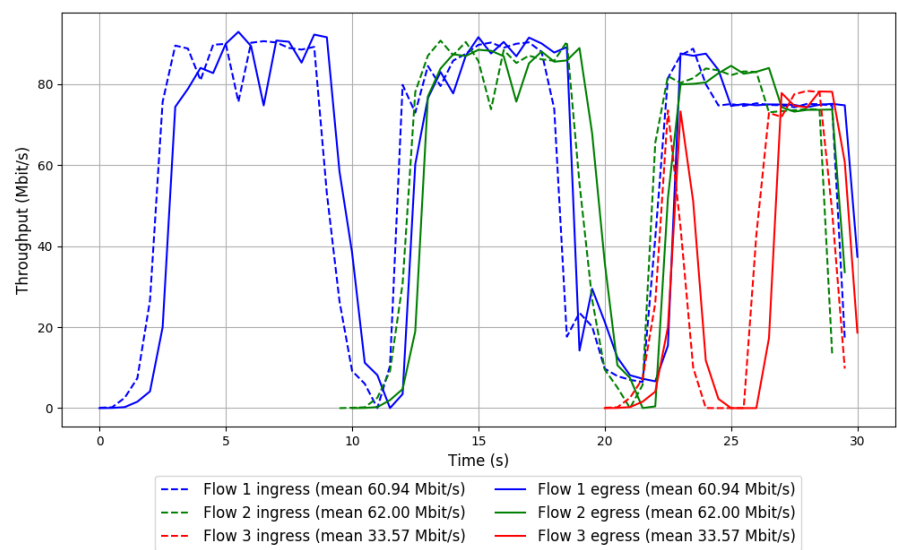


Run 7: Statistics of QUIC Cubic

Start at: 2018-06-06 09:04:22
End at: 2018-06-06 09:04:52
Local clock offset: 0.348 ms
Remote clock offset: -0.069 ms

Below is generated by plot.py at 2018-06-06 12:00:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 111.80 Mbit/s
95th percentile per-packet one-way delay: 135.254 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.94 Mbit/s
95th percentile per-packet one-way delay: 134.230 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 62.00 Mbit/s
95th percentile per-packet one-way delay: 135.301 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 33.57 Mbit/s
95th percentile per-packet one-way delay: 135.015 ms
Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-06-06 09:29:08

End at: 2018-06-06 09:29:38

Local clock offset: -0.479 ms

Remote clock offset: 0.328 ms

Below is generated by plot.py at 2018-06-06 12:00:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 105.60 Mbit/s

95th percentile per-packet one-way delay: 137.202 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.69 Mbit/s

95th percentile per-packet one-way delay: 137.256 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.50 Mbit/s

95th percentile per-packet one-way delay: 136.766 ms

Loss rate: 0.00%

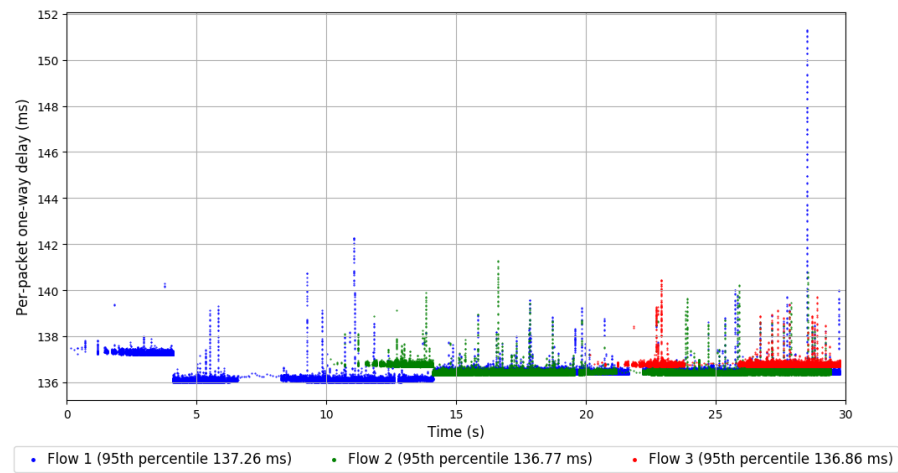
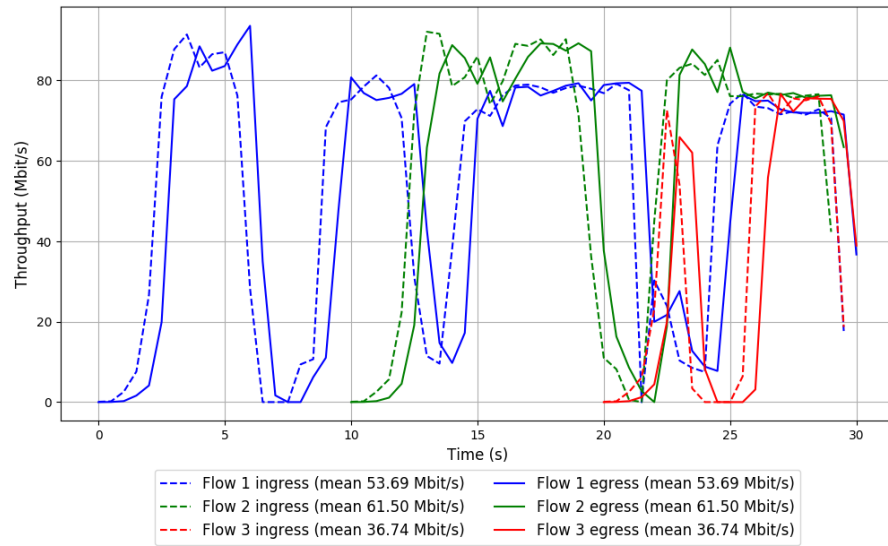
-- Flow 3:

Average throughput: 36.74 Mbit/s

95th percentile per-packet one-way delay: 136.863 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link

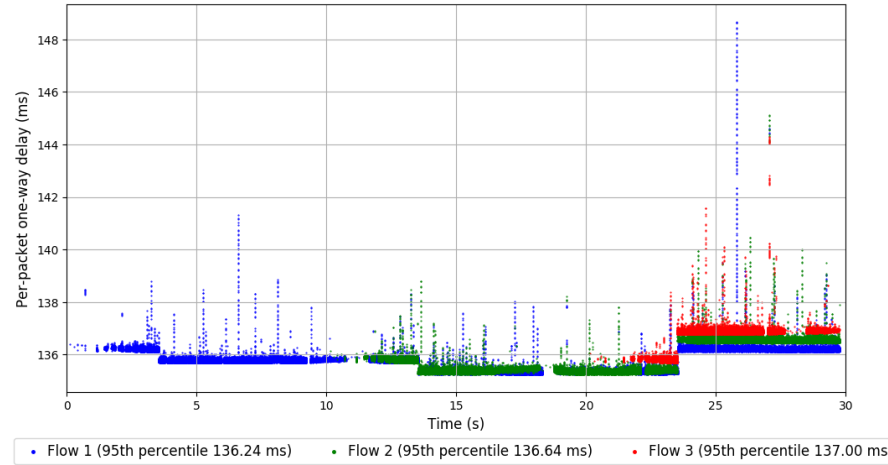
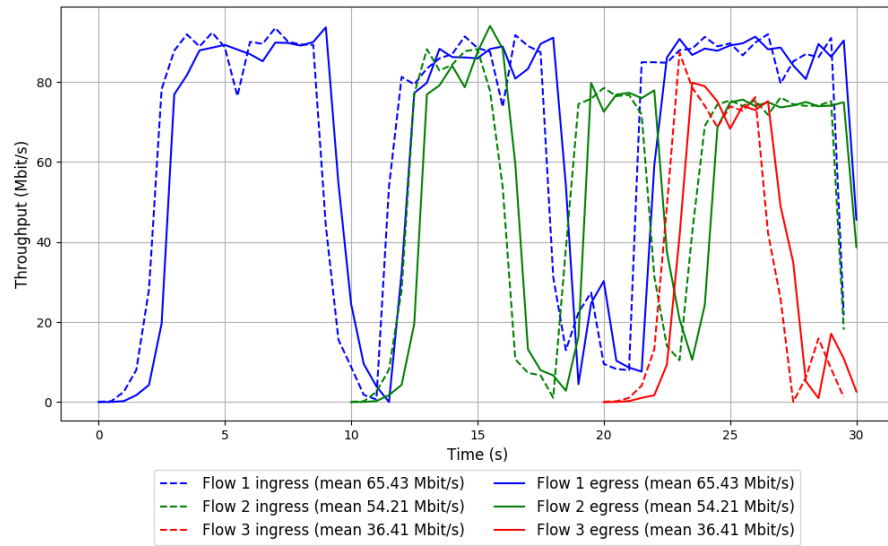


Run 9: Statistics of QUIC Cubic

Start at: 2018-06-06 09:54:08
End at: 2018-06-06 09:54:38
Local clock offset: -0.304 ms
Remote clock offset: -0.053 ms

Below is generated by plot.py at 2018-06-06 12:00:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 113.13 Mbit/s
95th percentile per-packet one-way delay: 136.866 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 65.43 Mbit/s
95th percentile per-packet one-way delay: 136.242 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 54.21 Mbit/s
95th percentile per-packet one-way delay: 136.644 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 36.41 Mbit/s
95th percentile per-packet one-way delay: 136.997 ms
Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

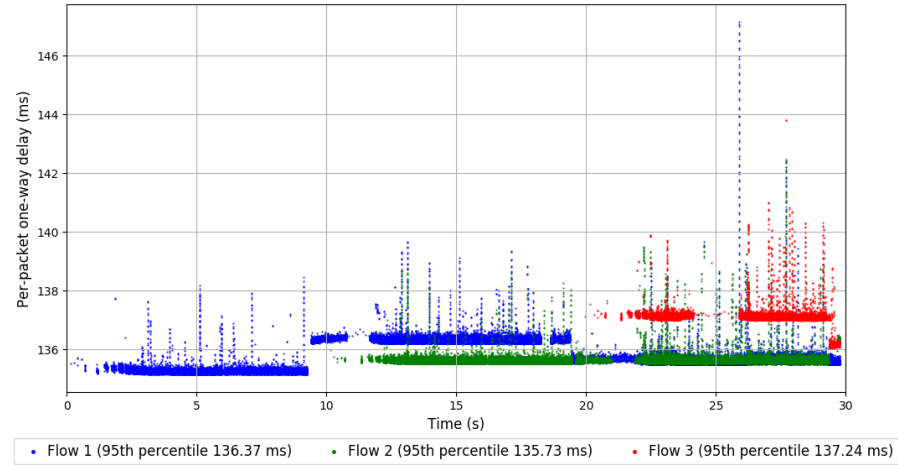
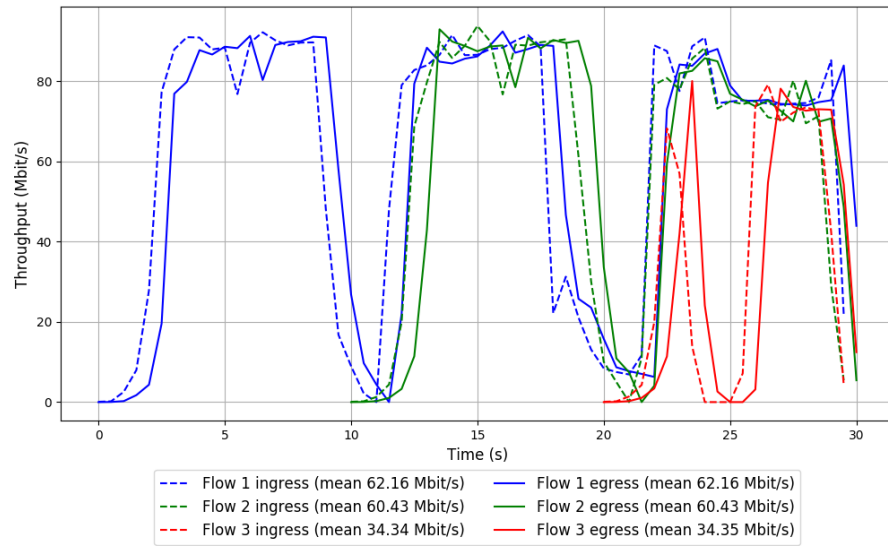


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-06-06 10:19:02
End at: 2018-06-06 10:19:32
Local clock offset: -0.185 ms
Remote clock offset: 0.305 ms

# Below is generated by plot.py at 2018-06-06 12:00:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 113.32 Mbit/s
95th percentile per-packet one-way delay: 137.091 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 62.16 Mbit/s
95th percentile per-packet one-way delay: 136.372 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 60.43 Mbit/s
95th percentile per-packet one-way delay: 135.726 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 34.35 Mbit/s
95th percentile per-packet one-way delay: 137.235 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

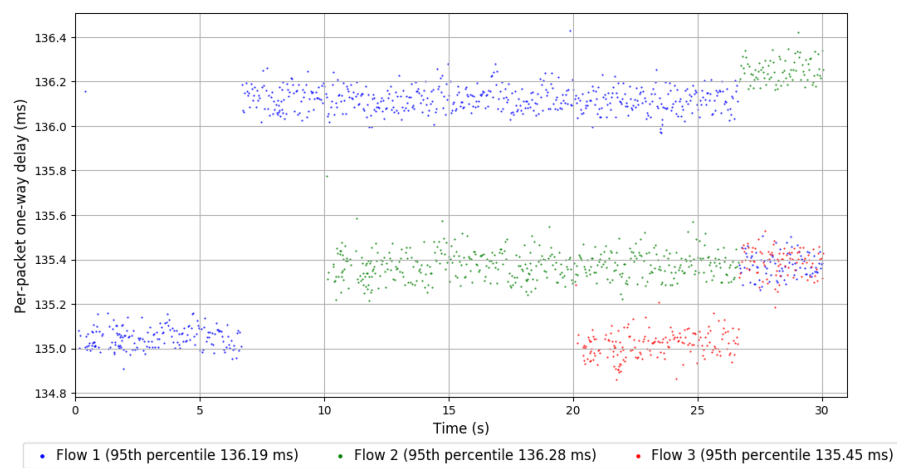
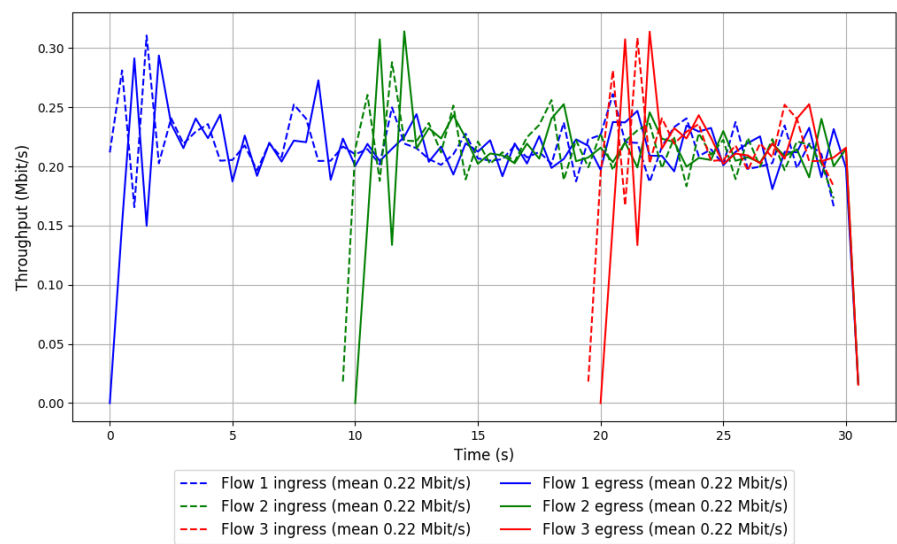


```
Run 1: Statistics of SReAM

Start at: 2018-06-06 06:36:25
End at: 2018-06-06 06:36:55
Local clock offset: -0.373 ms
Remote clock offset: 0.277 ms

# Below is generated by plot.py at 2018-06-06 12:00:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.218 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.195 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.276 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.450 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

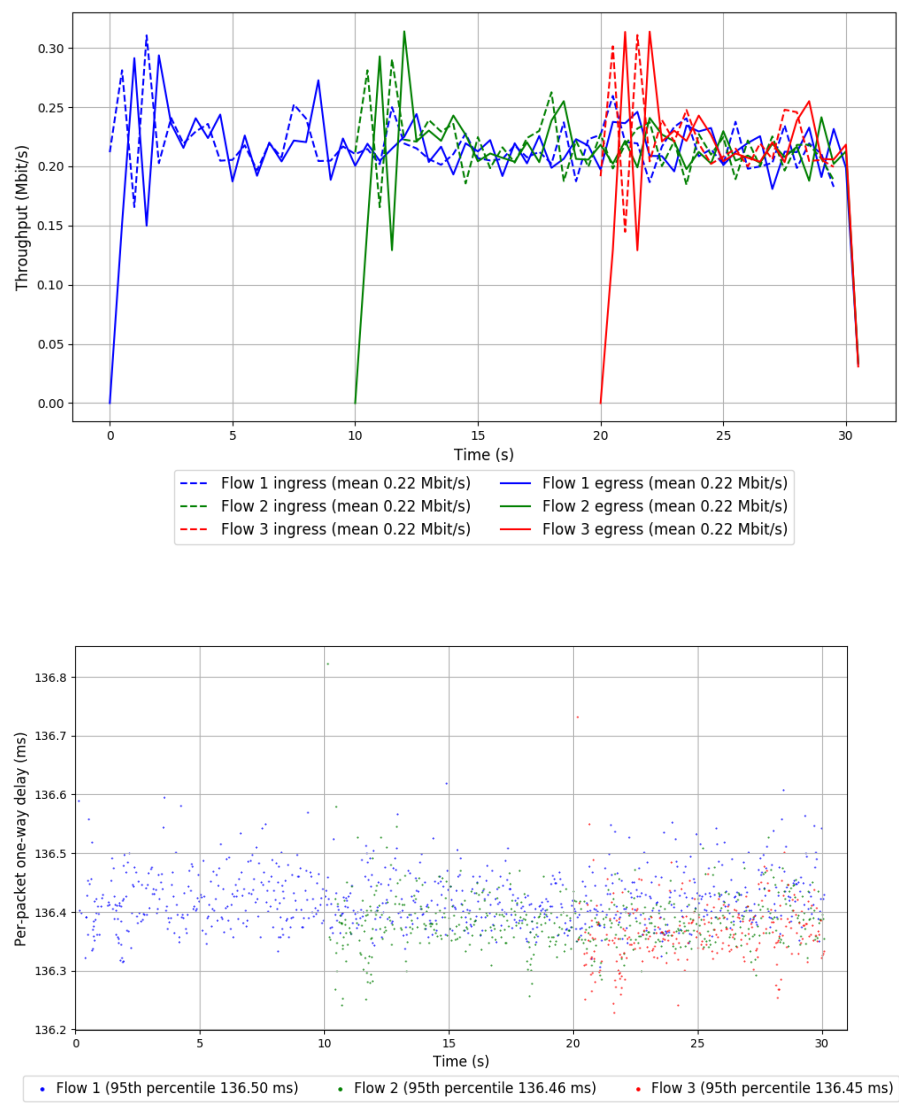


```
Run 2: Statistics of SReAM

Start at: 2018-06-06 07:01:09
End at: 2018-06-06 07:01:39
Local clock offset: 0.048 ms
Remote clock offset: 0.417 ms

# Below is generated by plot.py at 2018-06-06 12:00:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.489 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.505 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.459 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.450 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

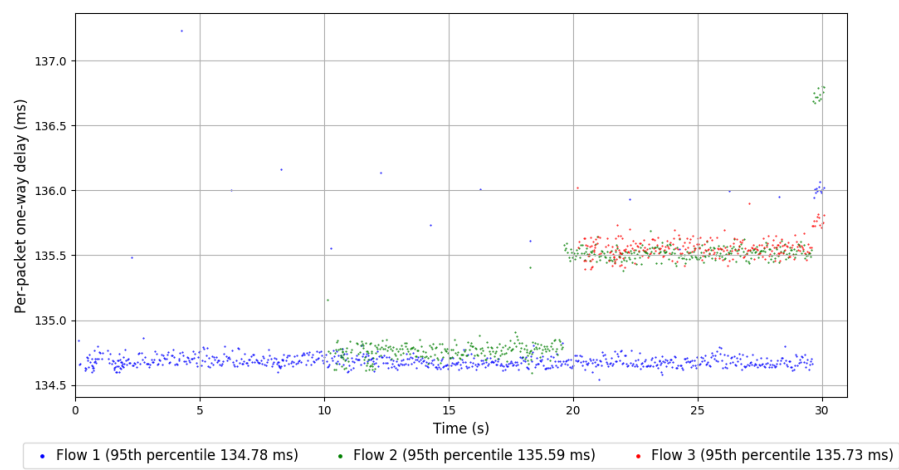
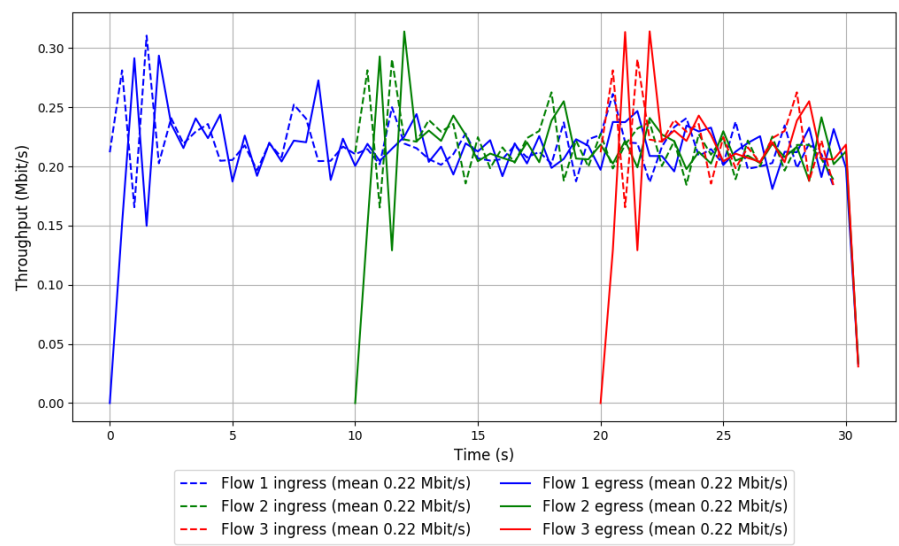


Run 3: Statistics of SReAM

Start at: 2018-06-06 07:26:12
End at: 2018-06-06 07:26:42
Local clock offset: -0.027 ms
Remote clock offset: 0.403 ms

Below is generated by plot.py at 2018-06-06 12:00:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 135.628 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 134.776 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.585 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.730 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

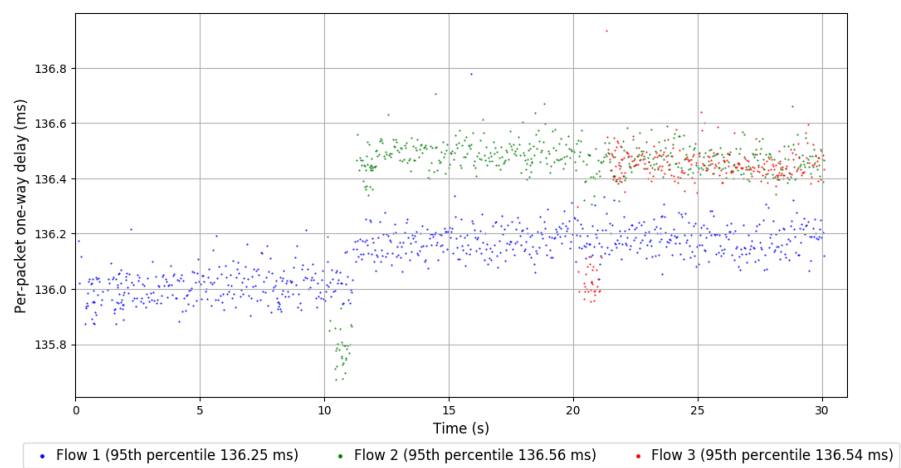
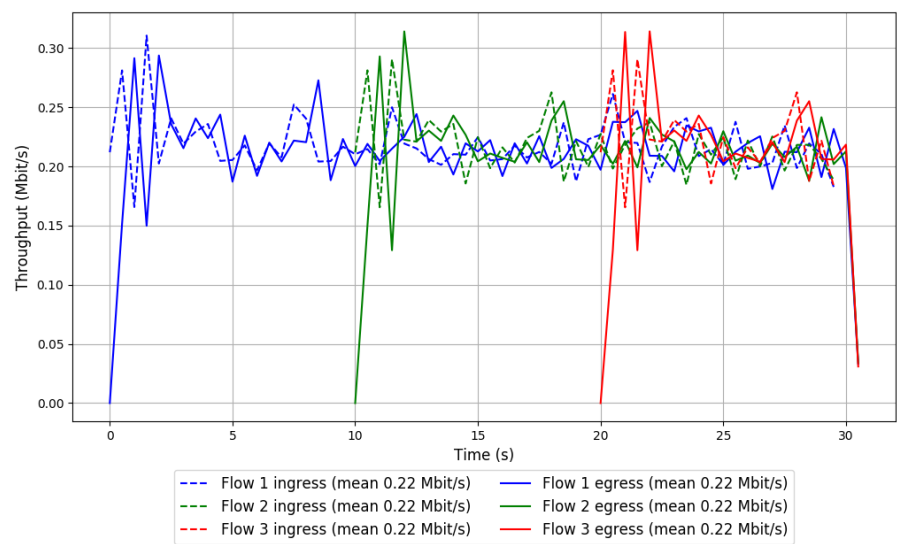


Run 4: Statistics of SReAM

Start at: 2018-06-06 07:50:51
End at: 2018-06-06 07:51:21
Local clock offset: 0.039 ms
Remote clock offset: 0.421 ms

```
# Below is generated by plot.py at 2018-06-06 12:00:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.529 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.249 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.557 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.542 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link

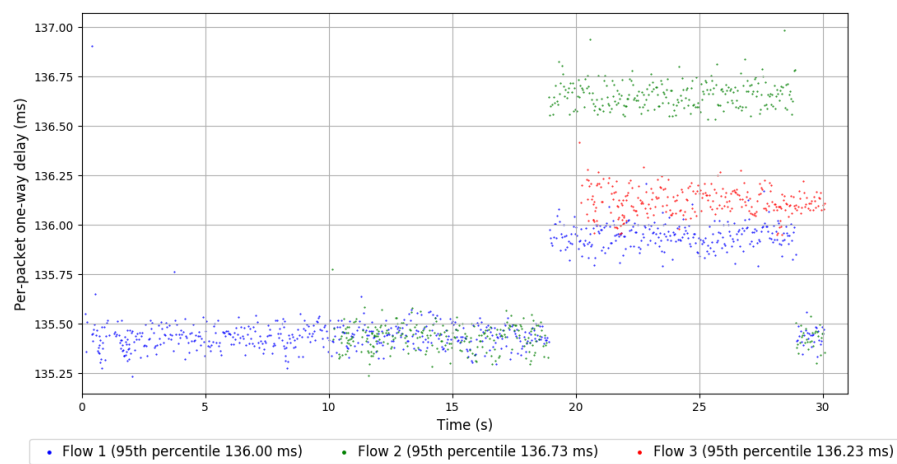
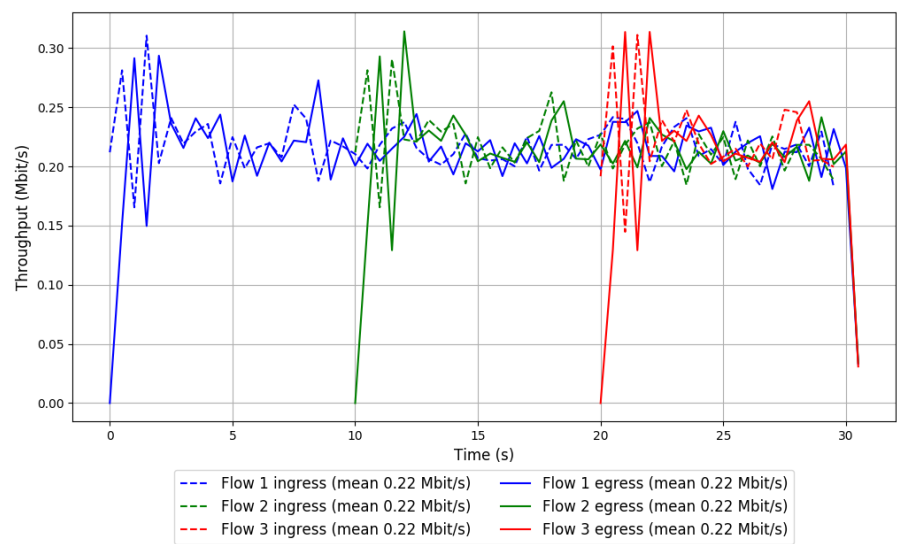


Run 5: Statistics of SReAM

Start at: 2018-06-06 08:15:33
End at: 2018-06-06 08:16:03
Local clock offset: -0.223 ms
Remote clock offset: -0.187 ms

Below is generated by plot.py at 2018-06-06 12:00:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.688 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.001 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.734 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.227 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

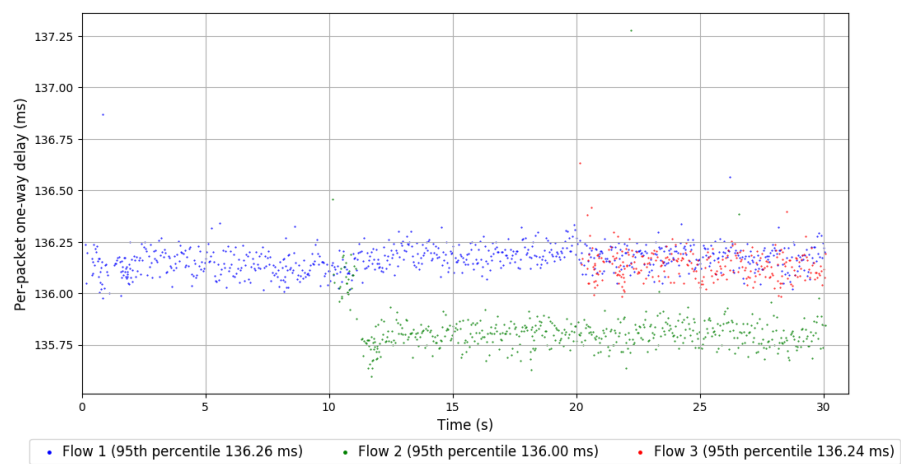
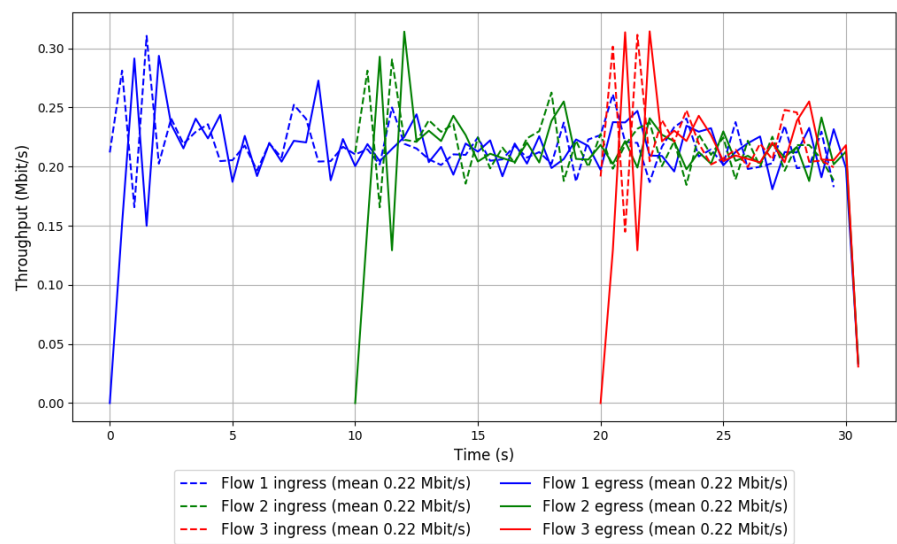


Run 6: Statistics of SReAM

Start at: 2018-06-06 08:40:41
End at: 2018-06-06 08:41:11
Local clock offset: -0.087 ms
Remote clock offset: -0.103 ms

Below is generated by plot.py at 2018-06-06 12:00:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.244 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.259 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.005 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.237 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

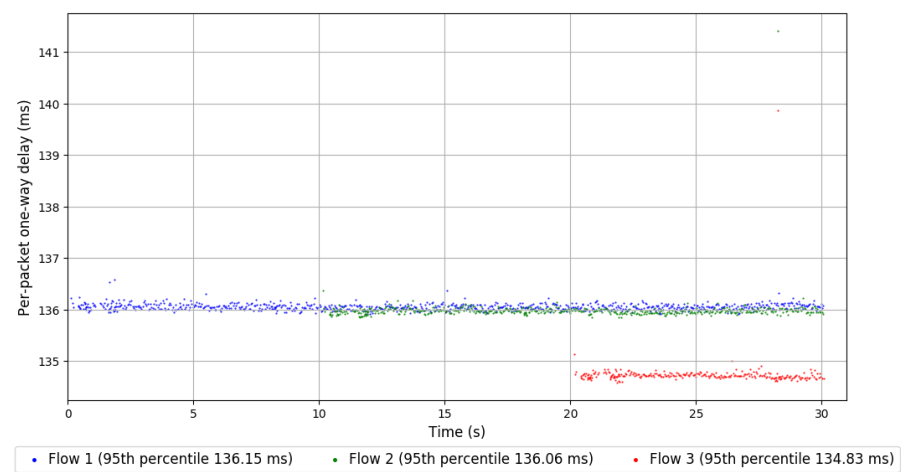
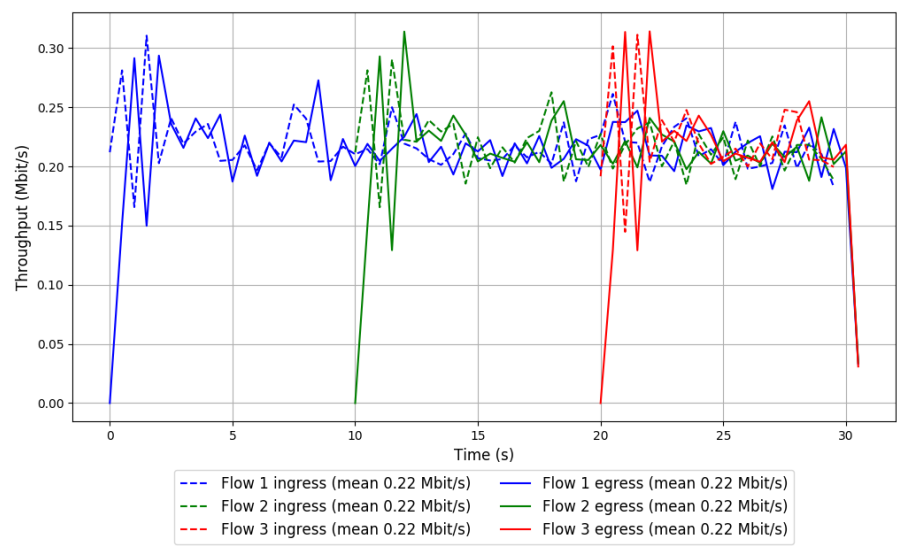


Run 7: Statistics of SReAM

Start at: 2018-06-06 09:05:45
End at: 2018-06-06 09:06:15
Local clock offset: -0.06 ms
Remote clock offset: -0.078 ms

Below is generated by plot.py at 2018-06-06 12:00:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.129 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.148 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.063 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 134.829 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

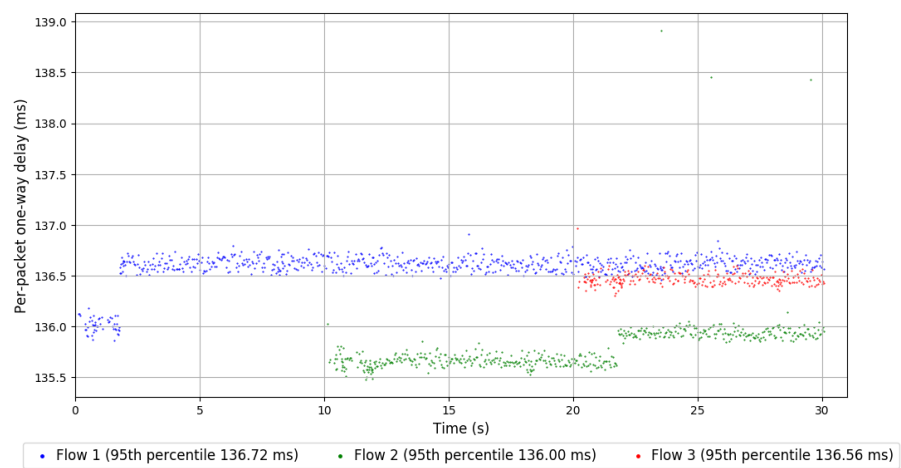
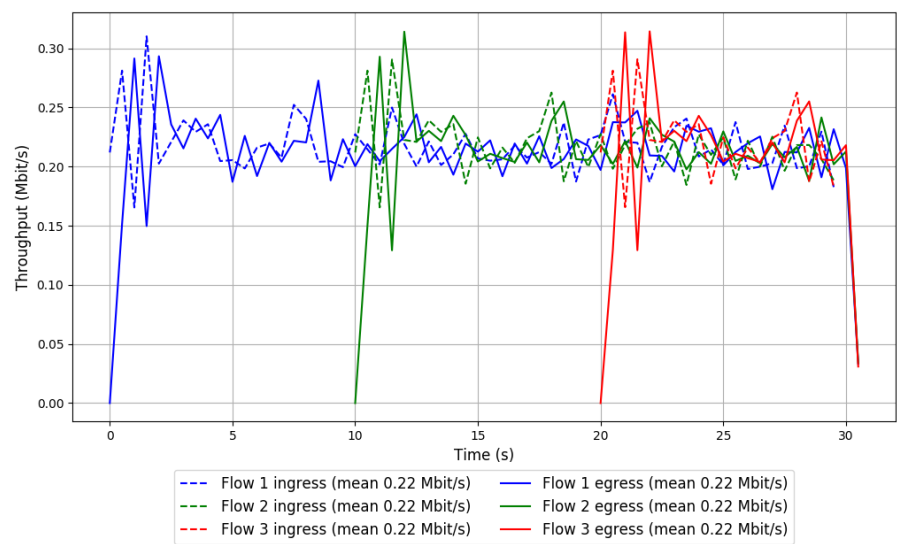


Run 8: Statistics of SReAM

Start at: 2018-06-06 09:30:30
End at: 2018-06-06 09:31:00
Local clock offset: -0.449 ms
Remote clock offset: -0.465 ms

Below is generated by plot.py at 2018-06-06 12:00:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.703 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.720 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.995 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.558 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

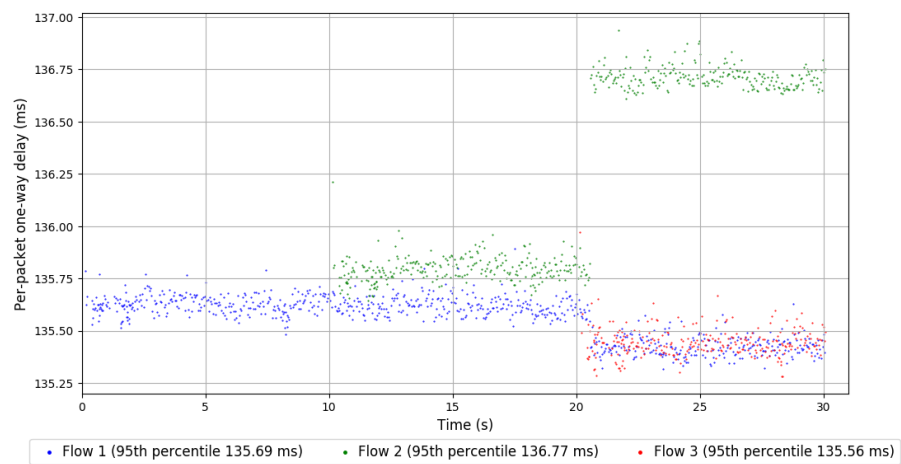
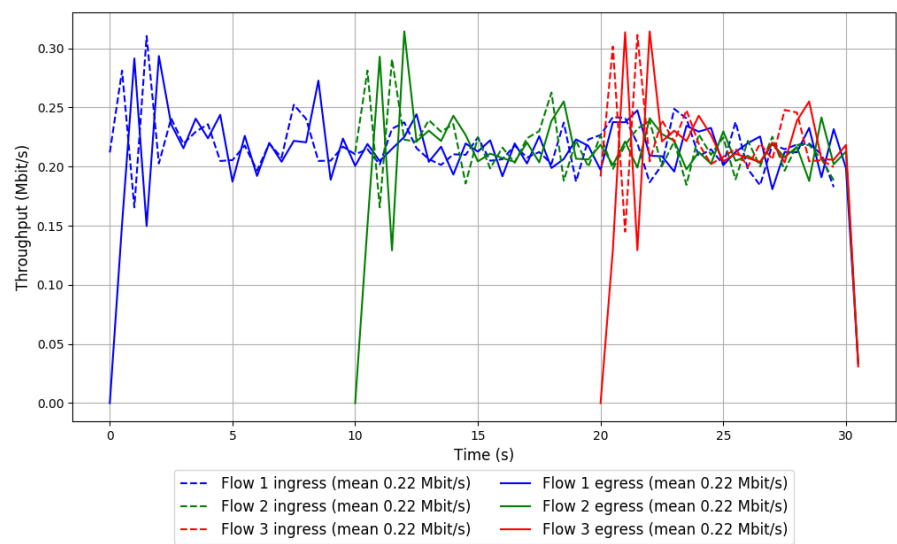


Run 9: Statistics of SReAM

Start at: 2018-06-06 09:55:31
End at: 2018-06-06 09:56:01
Local clock offset: -0.183 ms
Remote clock offset: -0.028 ms

Below is generated by plot.py at 2018-06-06 12:00:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.728 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.689 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.774 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.556 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-06-06 10:20:25

End at: 2018-06-06 10:20:55

Local clock offset: -0.178 ms

Remote clock offset: 0.003 ms

Below is generated by plot.py at 2018-06-06 12:00:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 136.586 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.491 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.654 ms

Loss rate: 0.00%

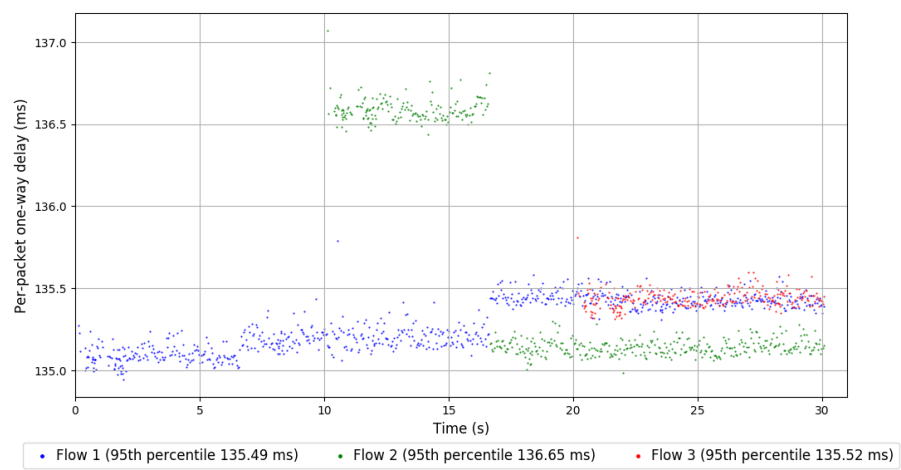
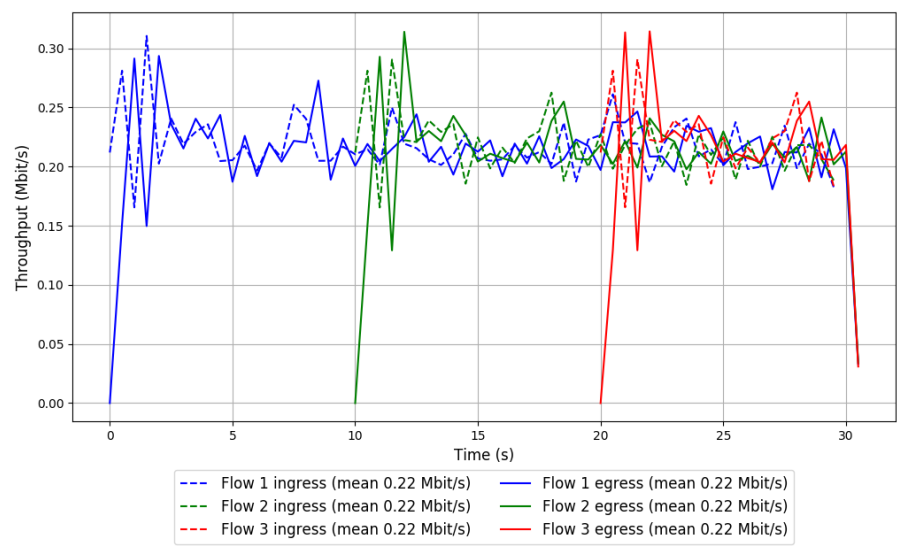
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.521 ms

Loss rate: 0.00%

Run 10: Report of SCReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-06-06 06:26:12

End at: 2018-06-06 06:26:42

Local clock offset: -0.123 ms

Remote clock offset: 0.258 ms

Below is generated by plot.py at 2018-06-06 12:00:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 136.019 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 136.025 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 136.002 ms

Loss rate: 0.00%

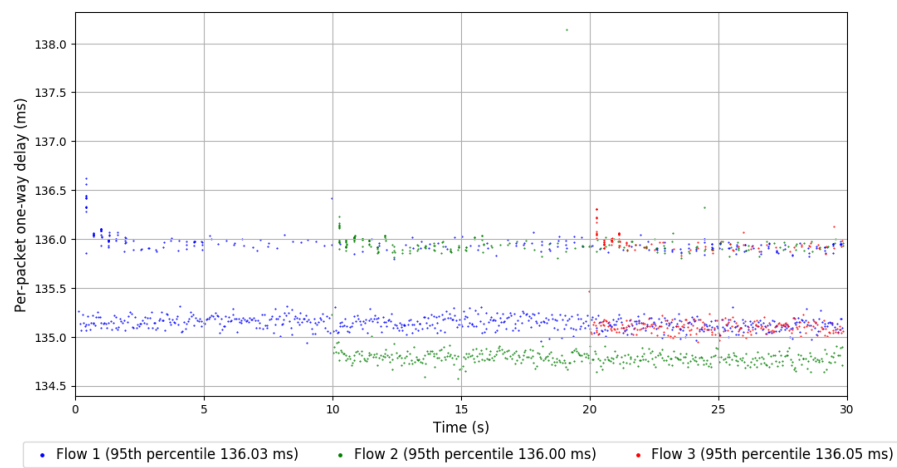
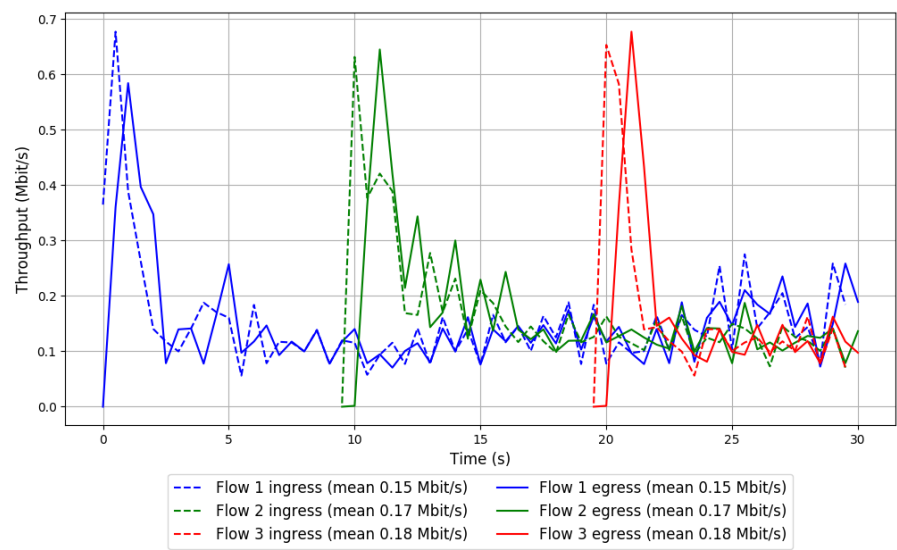
-- Flow 3:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 136.052 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

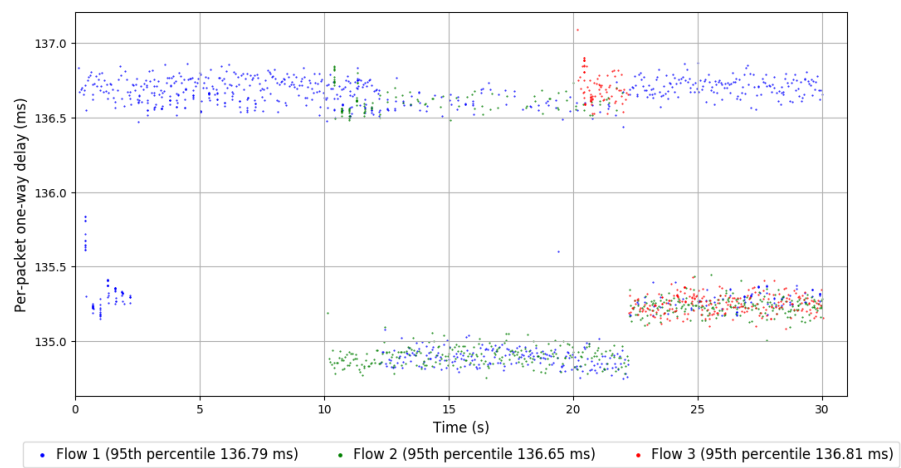
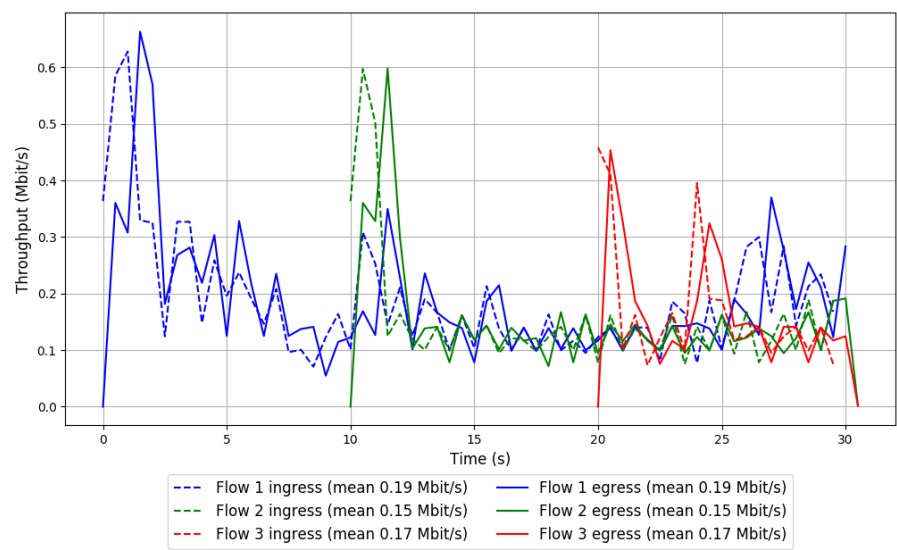


Run 2: Statistics of Sprout

Start at: 2018-06-06 06:51:00
End at: 2018-06-06 06:51:30
Local clock offset: -0.243 ms
Remote clock offset: 0.309 ms

```
# Below is generated by plot.py at 2018-06-06 12:00:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 136.776 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 136.789 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 136.649 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 136.808 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

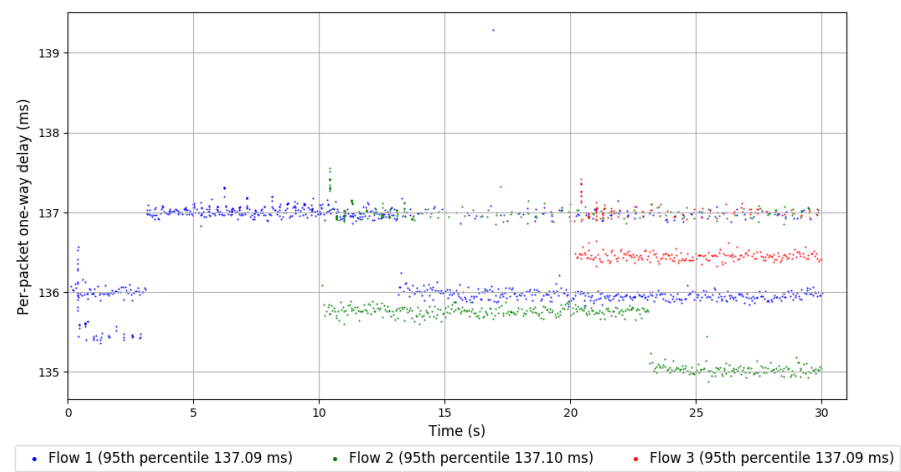
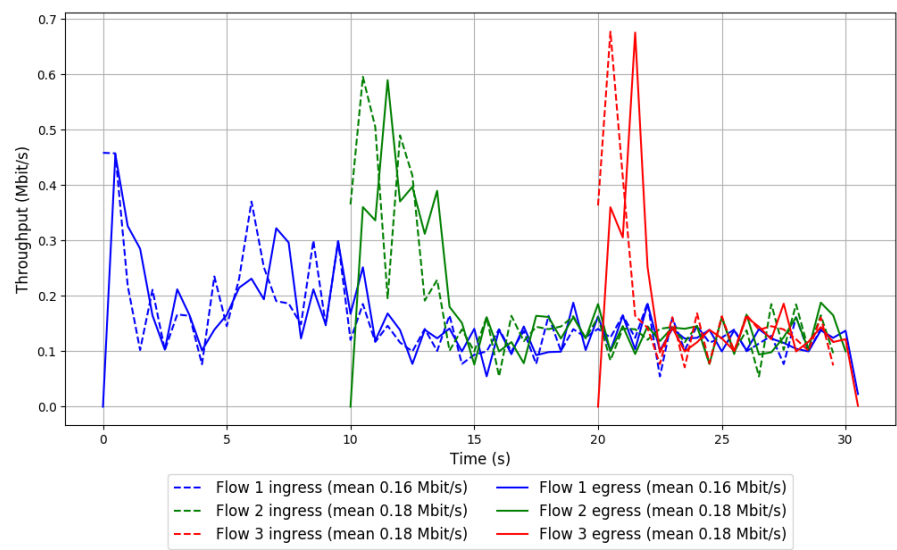


Run 3: Statistics of Sprout

Start at: 2018-06-06 07:15:59
End at: 2018-06-06 07:16:29
Local clock offset: -0.349 ms
Remote clock offset: 0.399 ms

```
# Below is generated by plot.py at 2018-06-06 12:00:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 137.092 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 137.090 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 137.097 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 137.088 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

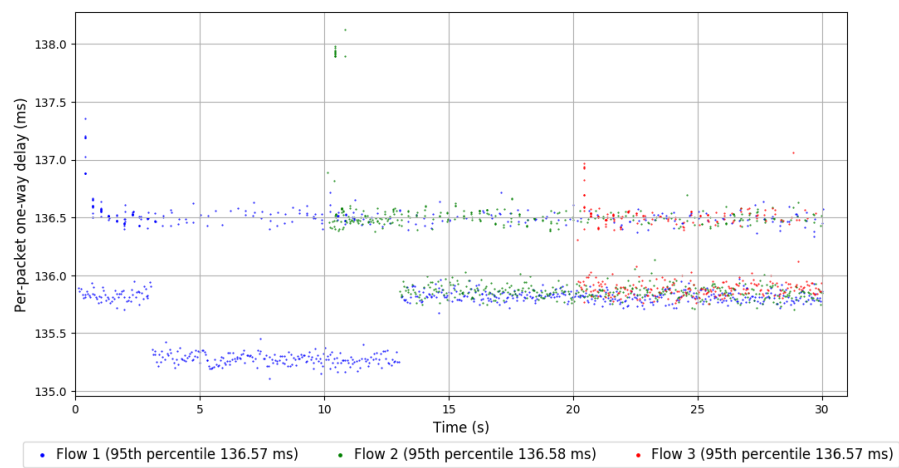
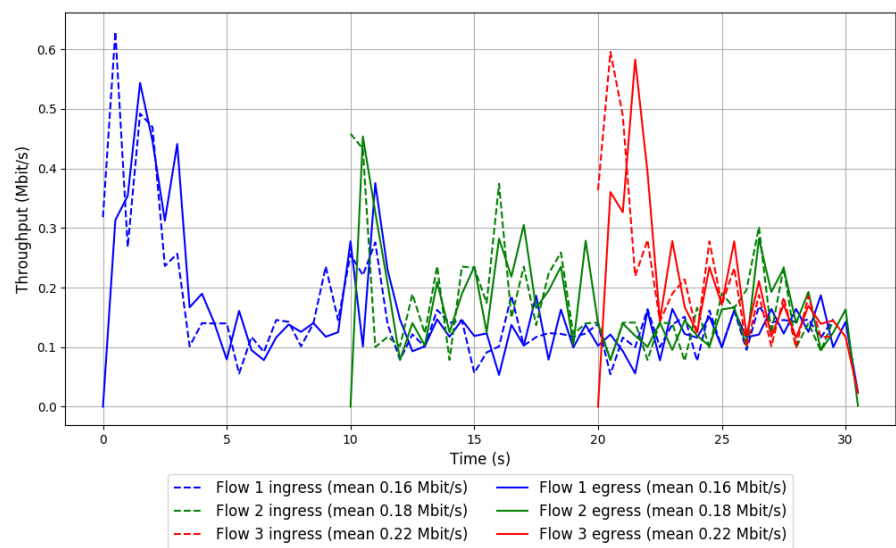


Run 4: Statistics of Sprout

Start at: 2018-06-06 07:40:29
End at: 2018-06-06 07:40:59
Local clock offset: 0.121 ms
Remote clock offset: 0.431 ms

```
# Below is generated by plot.py at 2018-06-06 12:00:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 136.575 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 136.568 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 136.580 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.571 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

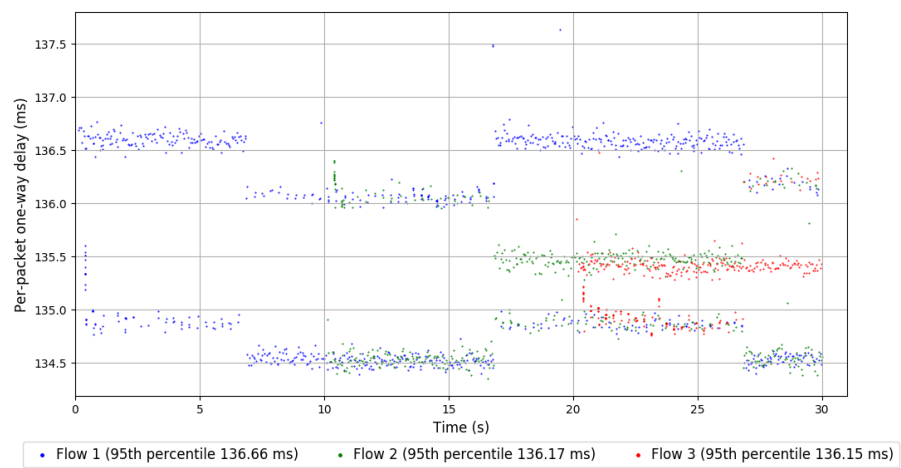
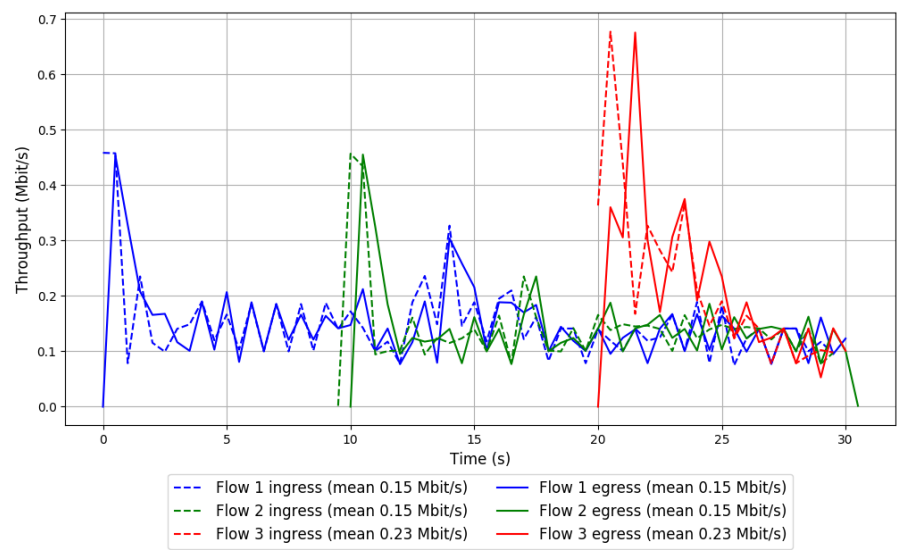


Run 5: Statistics of Sprout

Start at: 2018-06-06 08:05:05
End at: 2018-06-06 08:05:35
Local clock offset: 0.267 ms
Remote clock offset: -0.123 ms

Below is generated by plot.py at 2018-06-06 12:00:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 136.628 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 136.661 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 136.173 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 136.145 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-06-06 08:30:19

End at: 2018-06-06 08:30:49

Local clock offset: -0.084 ms

Remote clock offset: -0.11 ms

Below is generated by plot.py at 2018-06-06 12:00:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.432 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 136.393 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 136.378 ms

Loss rate: 0.00%

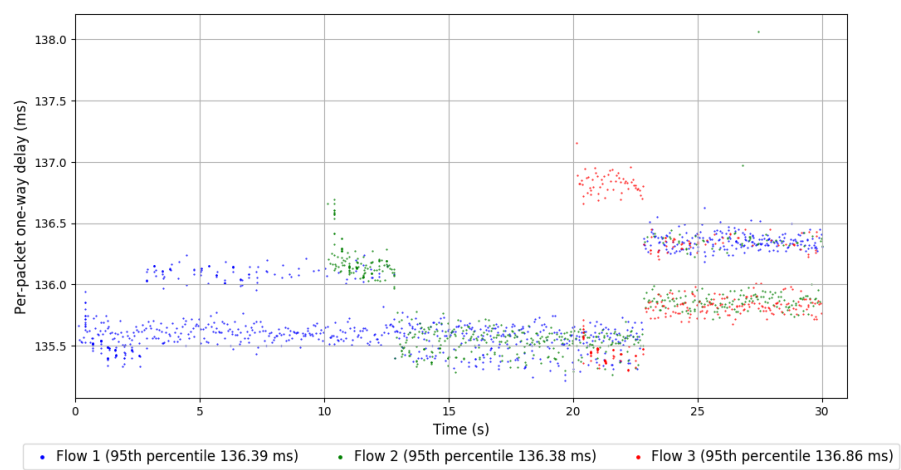
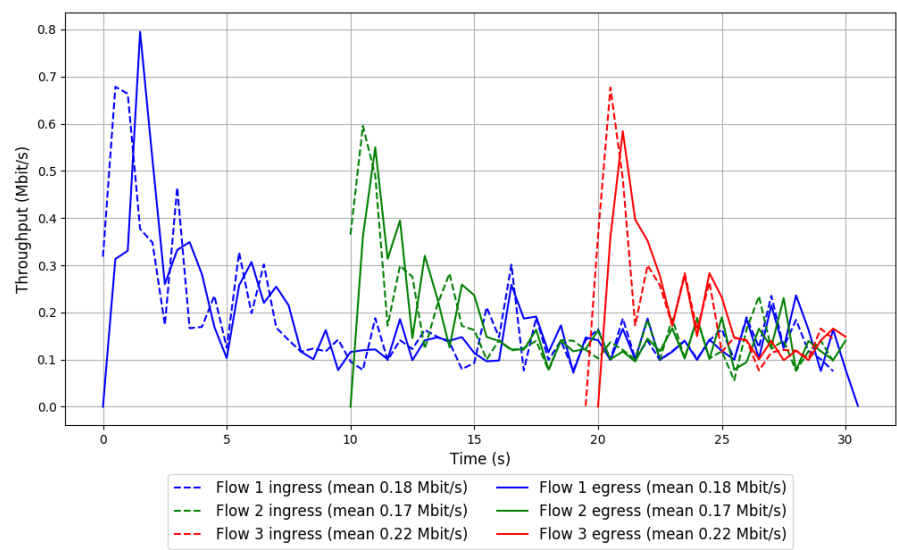
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.859 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

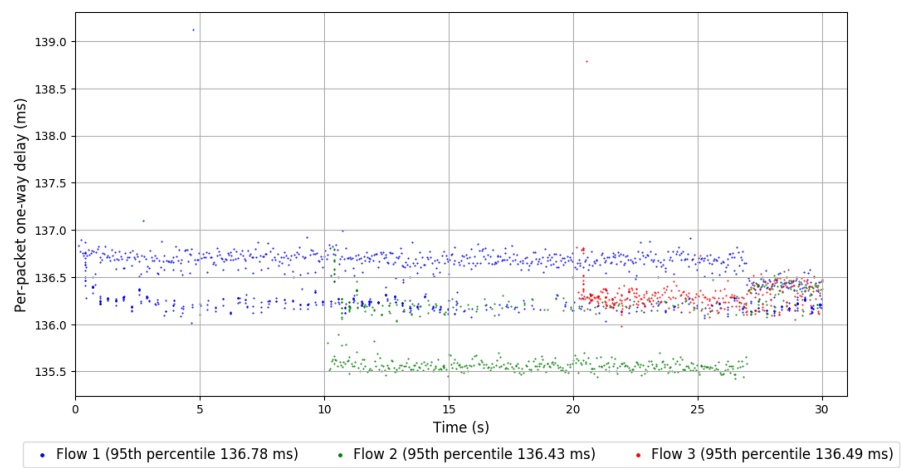
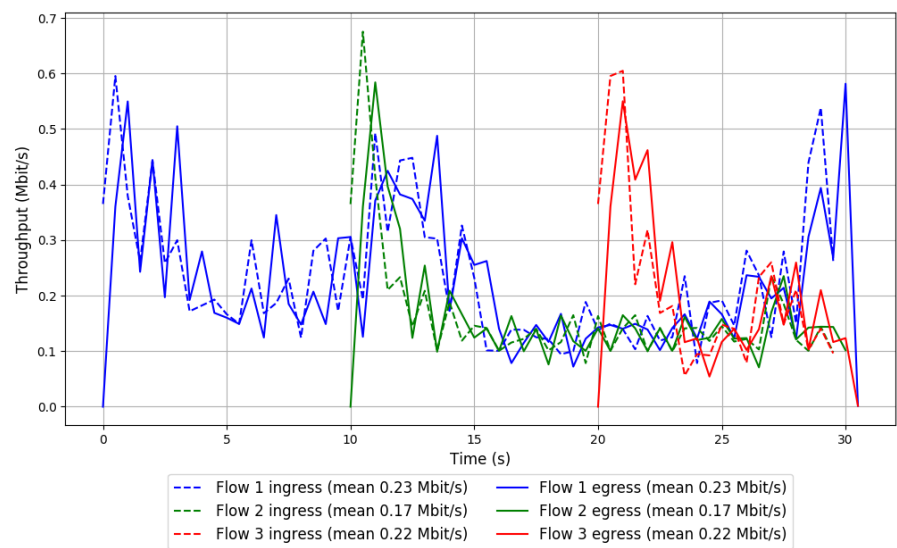


Run 7: Statistics of Sprout

Start at: 2018-06-06 08:55:25
End at: 2018-06-06 08:55:55
Local clock offset: -0.172 ms
Remote clock offset: 0.321 ms

```
# Below is generated by plot.py at 2018-06-06 12:00:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 136.758 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 136.779 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 136.425 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.486 ms
Loss rate: 0.00%
```

Run 7: Report of Sprout — Data Link

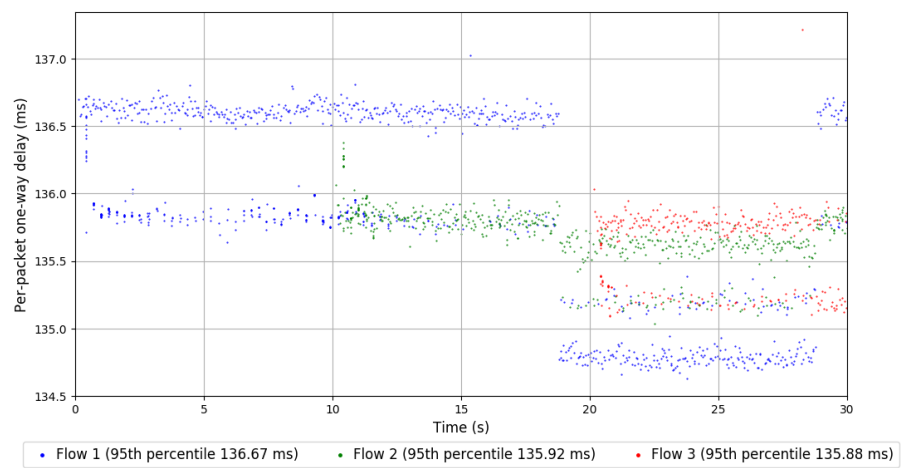
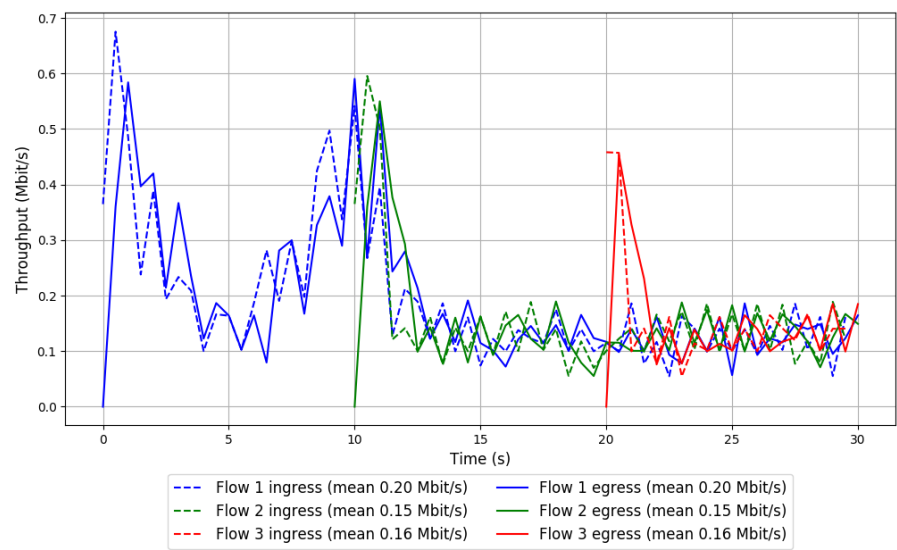


Run 8: Statistics of Sprout

Start at: 2018-06-06 09:20:13
End at: 2018-06-06 09:20:43
Local clock offset: 0.211 ms
Remote clock offset: 0.33 ms

```
# Below is generated by plot.py at 2018-06-06 12:00:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 136.651 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 136.672 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 135.923 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 135.881 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link

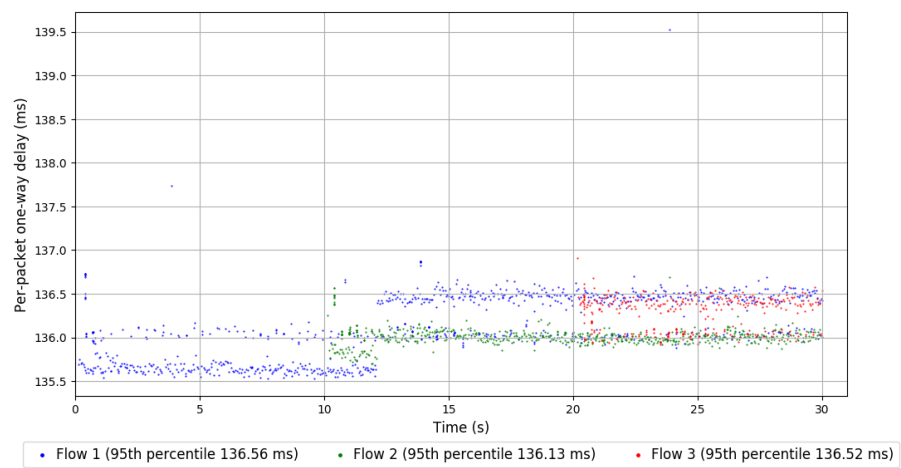
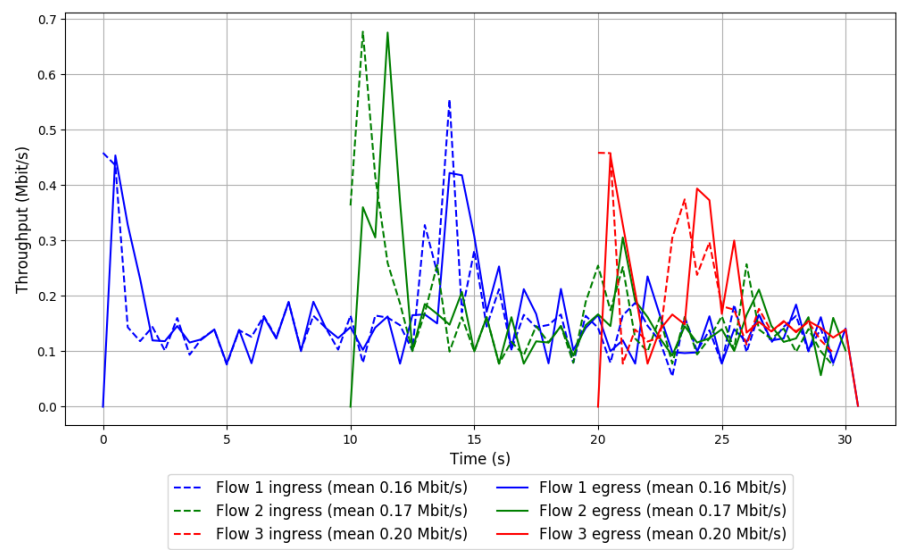


Run 9: Statistics of Sprout

Start at: 2018-06-06 09:45:00
End at: 2018-06-06 09:45:30
Local clock offset: -0.052 ms
Remote clock offset: 0.332 ms

```
# Below is generated by plot.py at 2018-06-06 12:00:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 136.535 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 136.564 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 136.131 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 136.516 ms
Loss rate: 0.00%
```


Run 9: Report of Sprout — Data Link

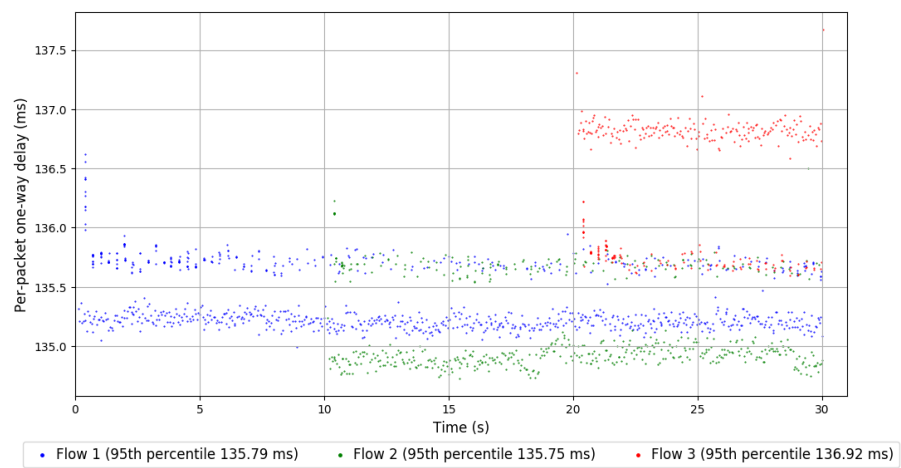
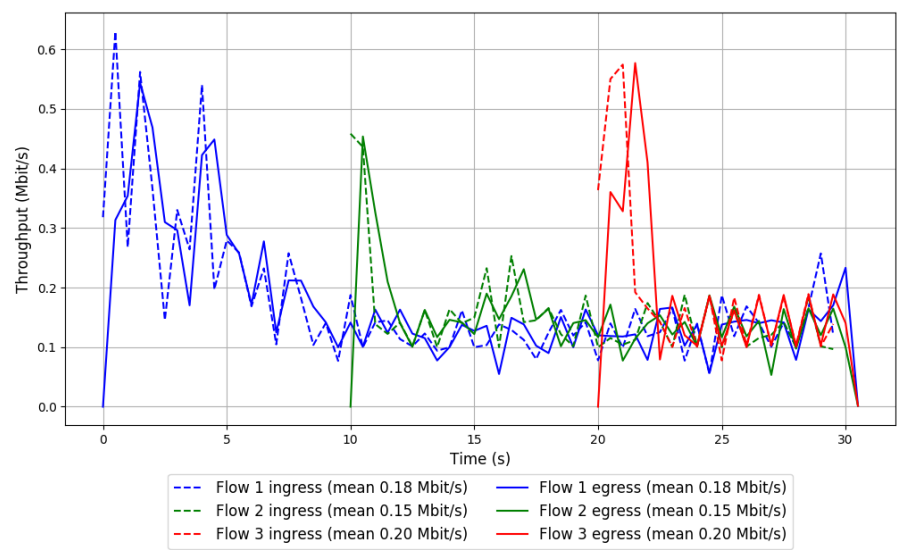


Run 10: Statistics of Sprout

Start at: 2018-06-06 10:10:03
End at: 2018-06-06 10:10:33
Local clock offset: 0.078 ms
Remote clock offset: -0.005 ms

Below is generated by plot.py at 2018-06-06 12:00:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 136.823 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 135.787 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 135.746 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 136.917 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

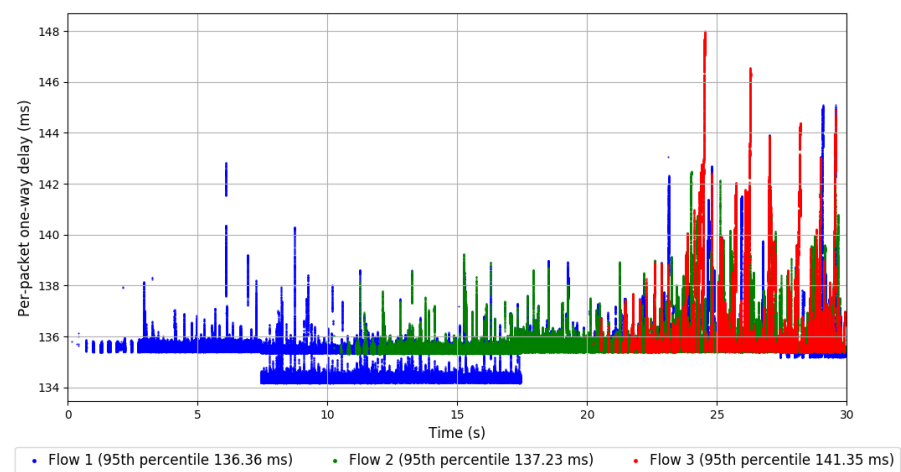
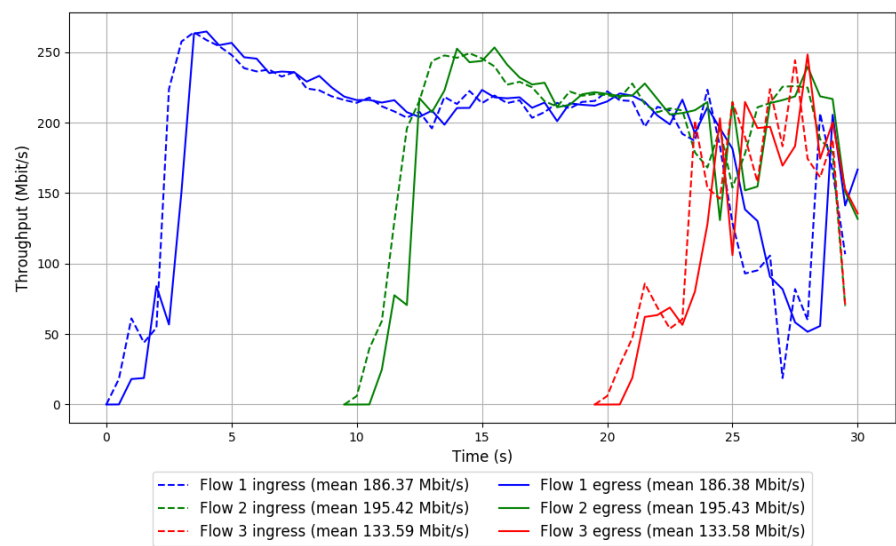


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-06 06:16:14
End at: 2018-06-06 06:16:44
Local clock offset: -0.156 ms
Remote clock offset: -0.152 ms

# Below is generated by plot.py at 2018-06-06 12:07:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 361.97 Mbit/s
95th percentile per-packet one-way delay: 137.559 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 186.38 Mbit/s
95th percentile per-packet one-way delay: 136.364 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 195.43 Mbit/s
95th percentile per-packet one-way delay: 137.228 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 133.58 Mbit/s
95th percentile per-packet one-way delay: 141.351 ms
Loss rate: 0.00%
```

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

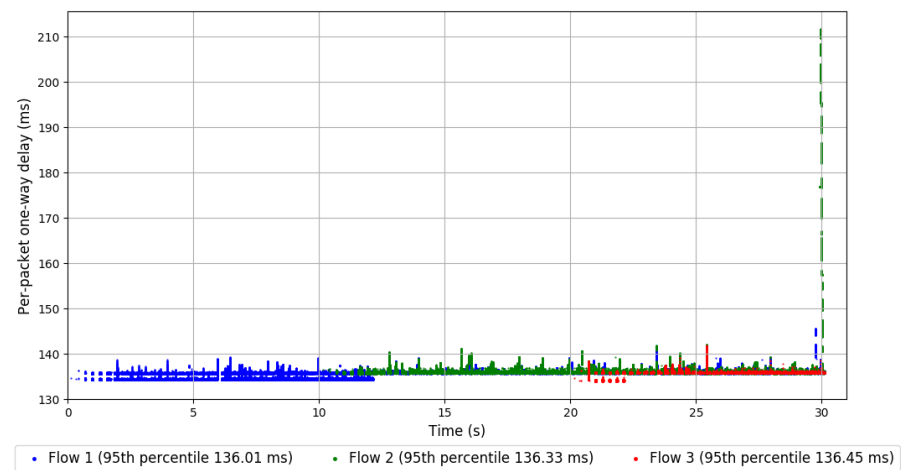
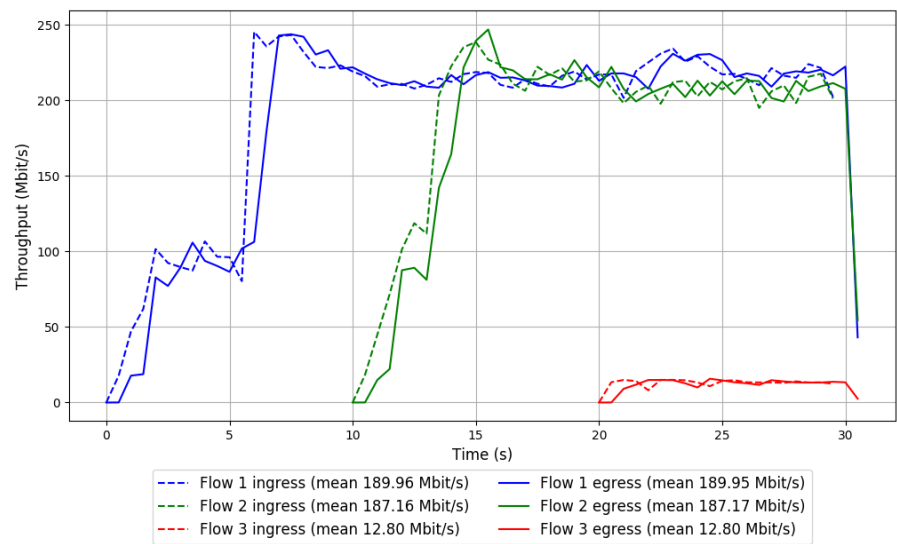


Run 2: Statistics of TaoVA-100x

Start at: 2018-06-06 06:41:10
End at: 2018-06-06 06:41:40
Local clock offset: 0.1 ms
Remote clock offset: -0.062 ms

Below is generated by plot.py at 2018-06-06 12:07:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 318.87 Mbit/s
95th percentile per-packet one-way delay: 136.131 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 189.95 Mbit/s
95th percentile per-packet one-way delay: 136.013 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 187.17 Mbit/s
95th percentile per-packet one-way delay: 136.328 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 12.80 Mbit/s
95th percentile per-packet one-way delay: 136.447 ms
Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-06-06 07:05:56

End at: 2018-06-06 07:06:26

Local clock offset: 0.101 ms

Remote clock offset: 0.353 ms

Below is generated by plot.py at 2018-06-06 12:07:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 247.95 Mbit/s

95th percentile per-packet one-way delay: 136.497 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 201.10 Mbit/s

95th percentile per-packet one-way delay: 136.493 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 13.14 Mbit/s

95th percentile per-packet one-way delay: 136.235 ms

Loss rate: 0.00%

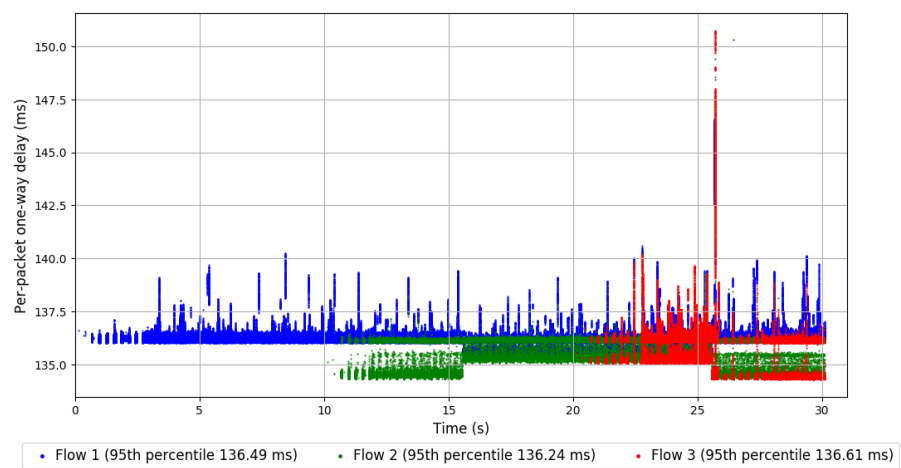
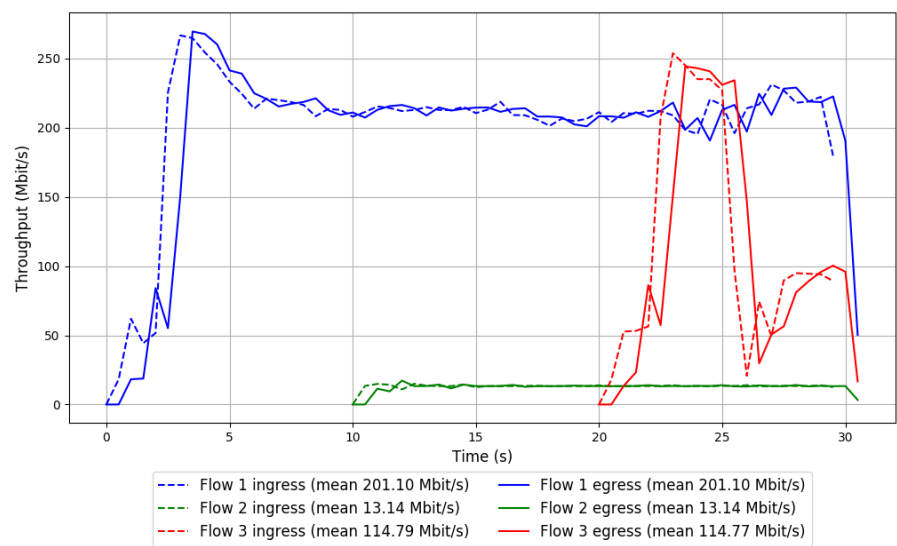
-- Flow 3:

Average throughput: 114.77 Mbit/s

95th percentile per-packet one-way delay: 136.609 ms

Loss rate: 0.02%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-06-06 07:31:05

End at: 2018-06-06 07:31:35

Local clock offset: 0.407 ms

Remote clock offset: 0.394 ms

Below is generated by plot.py at 2018-06-06 12:07:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.40 Mbit/s

95th percentile per-packet one-way delay: 136.133 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 13.40 Mbit/s

95th percentile per-packet one-way delay: 136.133 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 13.17 Mbit/s

95th percentile per-packet one-way delay: 136.128 ms

Loss rate: 0.00%

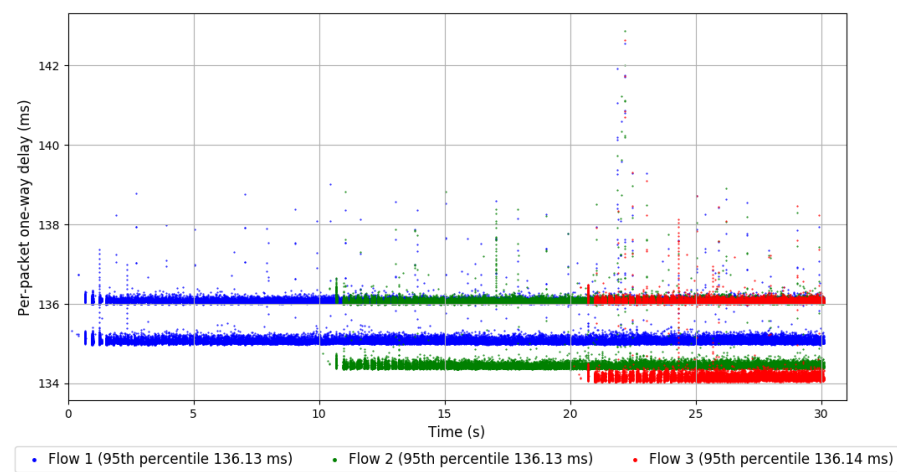
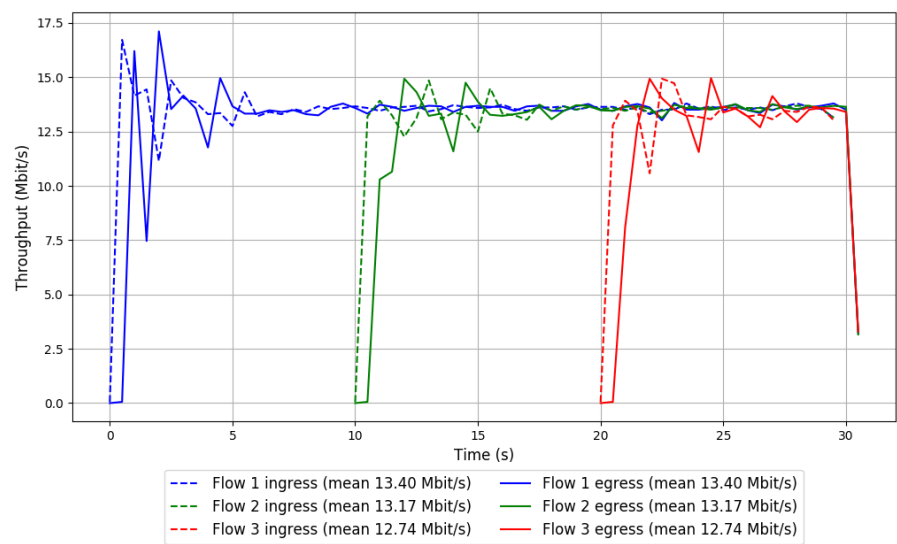
-- Flow 3:

Average throughput: 12.74 Mbit/s

95th percentile per-packet one-way delay: 136.139 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-06-06 07:55:31

End at: 2018-06-06 07:56:01

Local clock offset: -0.309 ms

Remote clock offset: 0.006 ms

Below is generated by plot.py at 2018-06-06 12:07:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 103.58 Mbit/s

95th percentile per-packet one-way delay: 136.952 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 90.65 Mbit/s

95th percentile per-packet one-way delay: 136.948 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 13.06 Mbit/s

95th percentile per-packet one-way delay: 136.968 ms

Loss rate: 0.00%

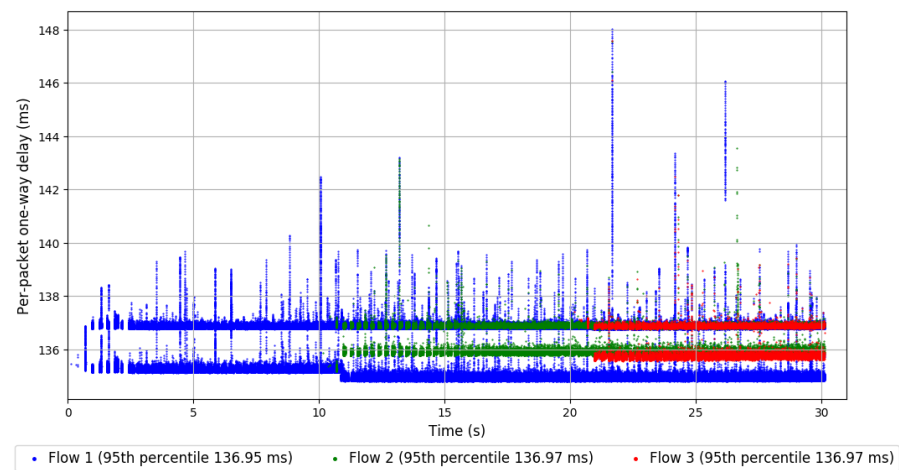
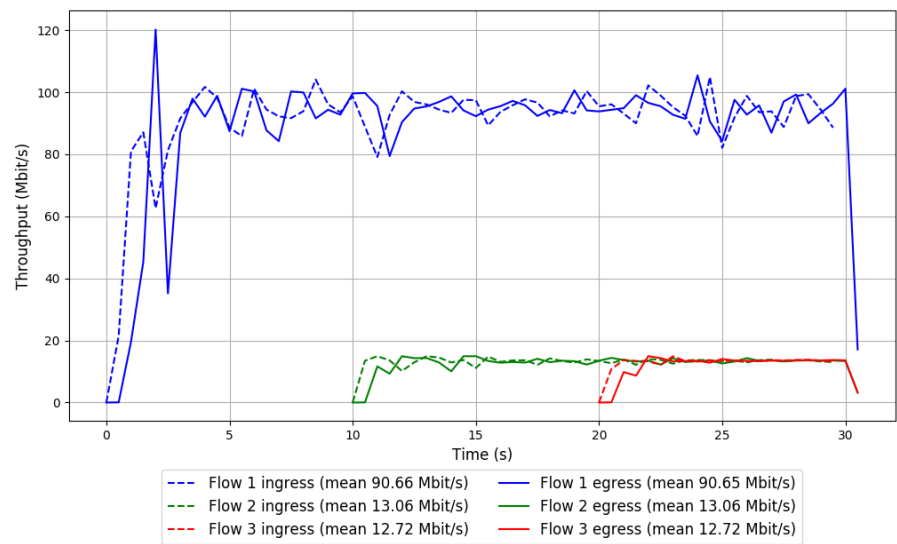
-- Flow 3:

Average throughput: 12.72 Mbit/s

95th percentile per-packet one-way delay: 136.968 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-06-06 08:20:22

End at: 2018-06-06 08:20:52

Local clock offset: 0.009 ms

Remote clock offset: 0.208 ms

Below is generated by plot.py at 2018-06-06 12:08:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 344.63 Mbit/s

95th percentile per-packet one-way delay: 136.753 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 207.24 Mbit/s

95th percentile per-packet one-way delay: 136.790 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 199.85 Mbit/s

95th percentile per-packet one-way delay: 136.561 ms

Loss rate: 0.00%

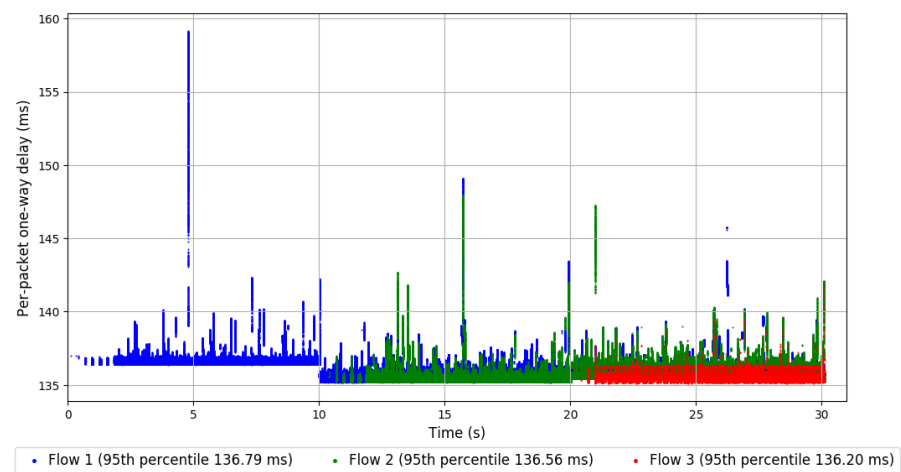
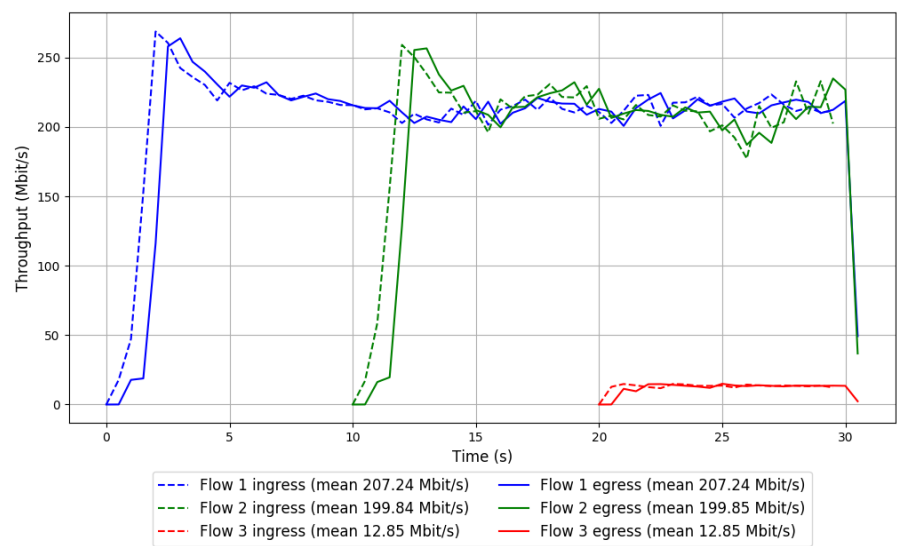
-- Flow 3:

Average throughput: 12.85 Mbit/s

95th percentile per-packet one-way delay: 136.201 ms

Loss rate: 0.01%

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

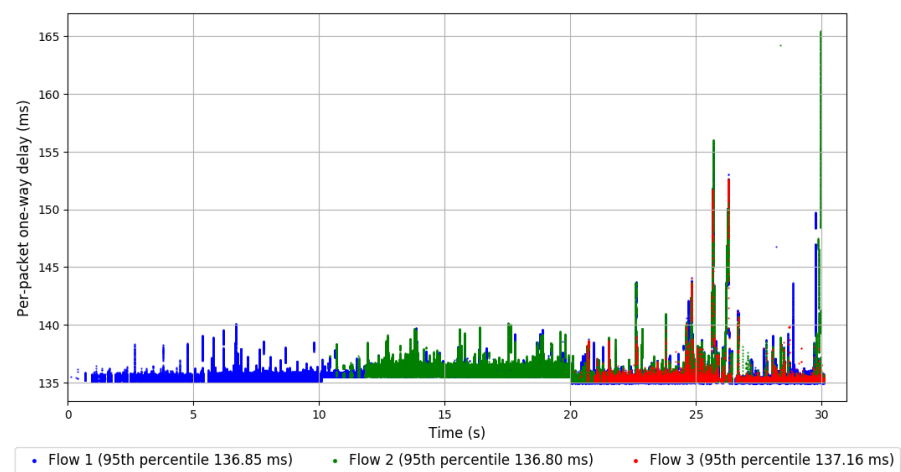
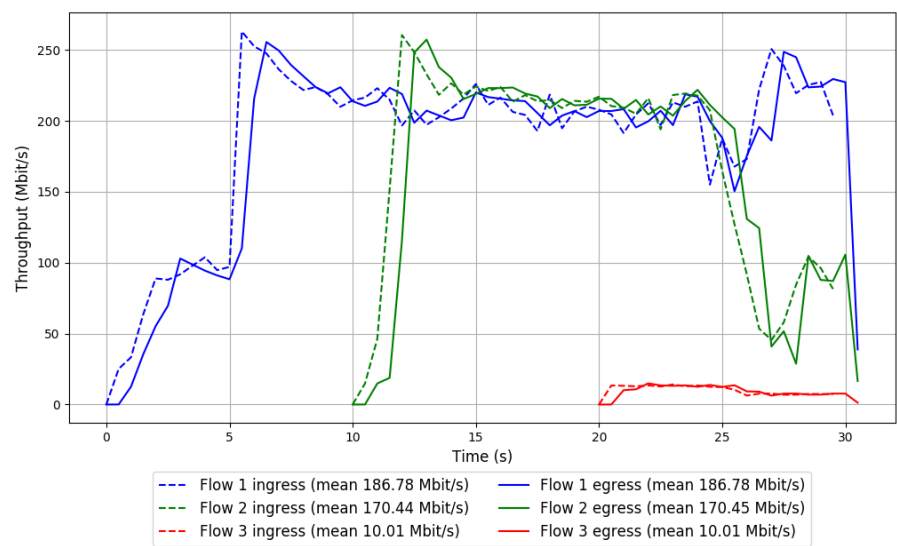


Run 7: Statistics of TaoVA-100x

Start at: 2018-06-06 08:45:32
End at: 2018-06-06 08:46:02
Local clock offset: -0.145 ms
Remote clock offset: -0.494 ms

Below is generated by plot.py at 2018-06-06 12:08:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 303.64 Mbit/s
95th percentile per-packet one-way delay: 136.836 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 186.78 Mbit/s
95th percentile per-packet one-way delay: 136.853 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 170.45 Mbit/s
95th percentile per-packet one-way delay: 136.800 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.01 Mbit/s
95th percentile per-packet one-way delay: 137.159 ms
Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-06-06 09:10:38

End at: 2018-06-06 09:11:08

Local clock offset: -0.375 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-06-06 12:08:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.90 Mbit/s

95th percentile per-packet one-way delay: 136.318 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 9.67 Mbit/s

95th percentile per-packet one-way delay: 136.664 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 13.15 Mbit/s

95th percentile per-packet one-way delay: 135.951 ms

Loss rate: 0.00%

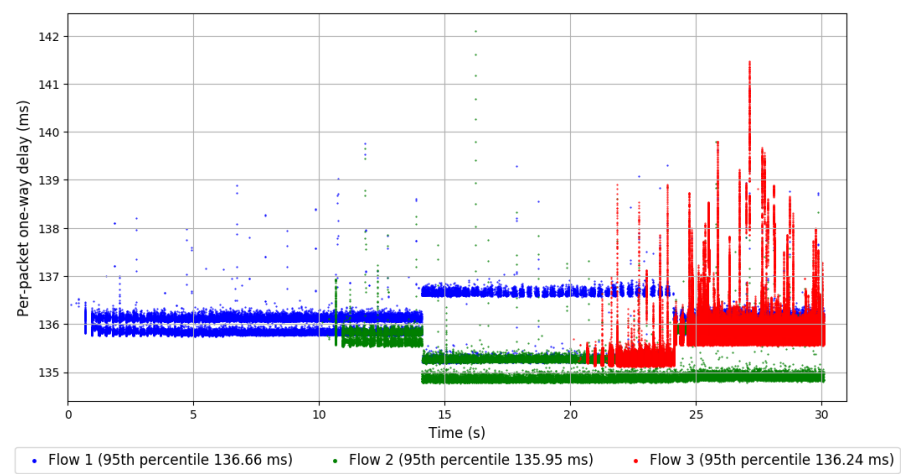
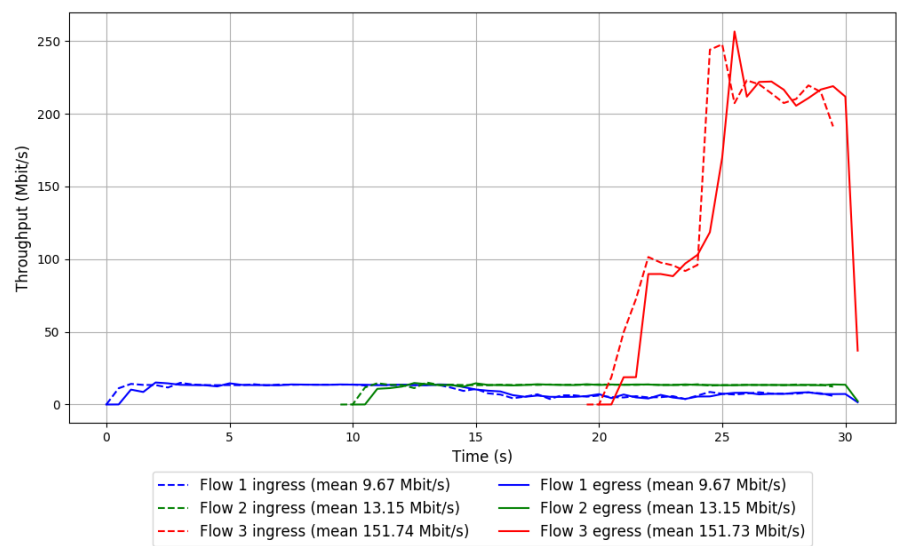
-- Flow 3:

Average throughput: 151.73 Mbit/s

95th percentile per-packet one-way delay: 136.240 ms

Loss rate: 0.00%

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

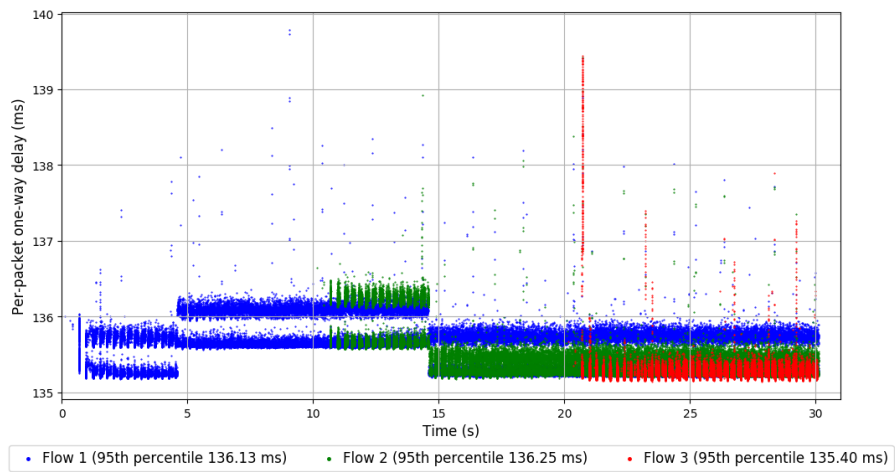
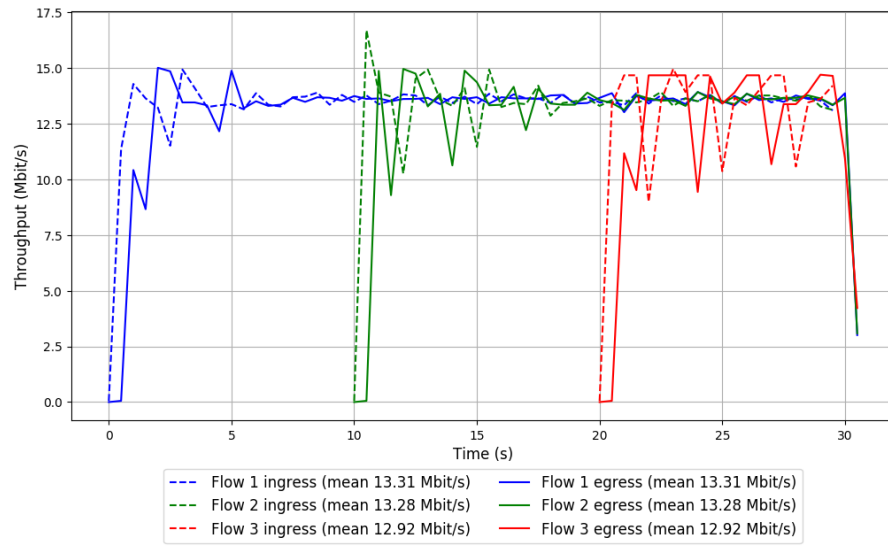


Run 9: Statistics of TaoVA-100x

Start at: 2018-06-06 09:35:27
End at: 2018-06-06 09:35:57
Local clock offset: 0.181 ms
Remote clock offset: -0.054 ms

Below is generated by plot.py at 2018-06-06 12:08:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 26.43 Mbit/s
95th percentile per-packet one-way delay: 136.159 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.31 Mbit/s
95th percentile per-packet one-way delay: 136.127 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.28 Mbit/s
95th percentile per-packet one-way delay: 136.251 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.92 Mbit/s
95th percentile per-packet one-way delay: 135.402 ms
Loss rate: 0.00%

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

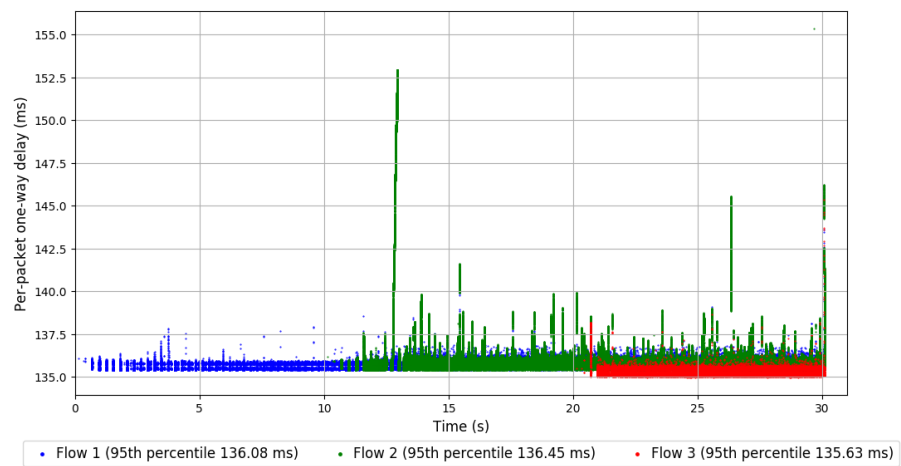
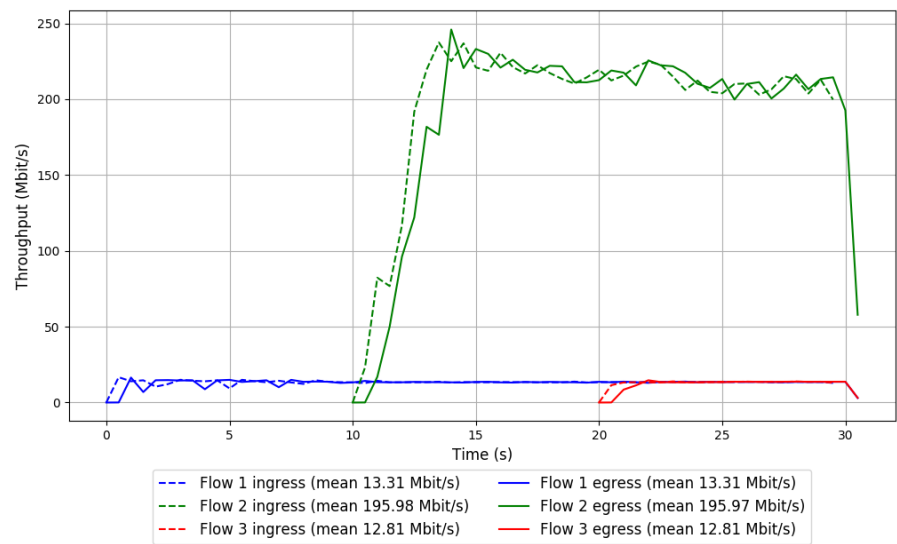


Run 10: Statistics of TaoVA-100x

Start at: 2018-06-06 10:00:20
End at: 2018-06-06 10:00:50
Local clock offset: -0.024 ms
Remote clock offset: -0.044 ms

Below is generated by plot.py at 2018-06-06 12:08:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 148.11 Mbit/s
95th percentile per-packet one-way delay: 136.359 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.31 Mbit/s
95th percentile per-packet one-way delay: 136.082 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 195.97 Mbit/s
95th percentile per-packet one-way delay: 136.448 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.81 Mbit/s
95th percentile per-packet one-way delay: 135.630 ms
Loss rate: 0.01%

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



Run 1: Statistics of TCP Vegas

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

End at: 2018-06-06 06:32:34

Local clock offset: -0.031 ms

Remote clock offset: 0.285 ms

Below is generated by plot.py at 2018-06-06 12:08:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 146.59 Mbit/s

95th percentile per-packet one-way delay: 143.859 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 83.32 Mbit/s

95th percentile per-packet one-way delay: 144.427 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 80.79 Mbit/s

95th percentile per-packet one-way delay: 142.569 ms

Loss rate: 0.14%

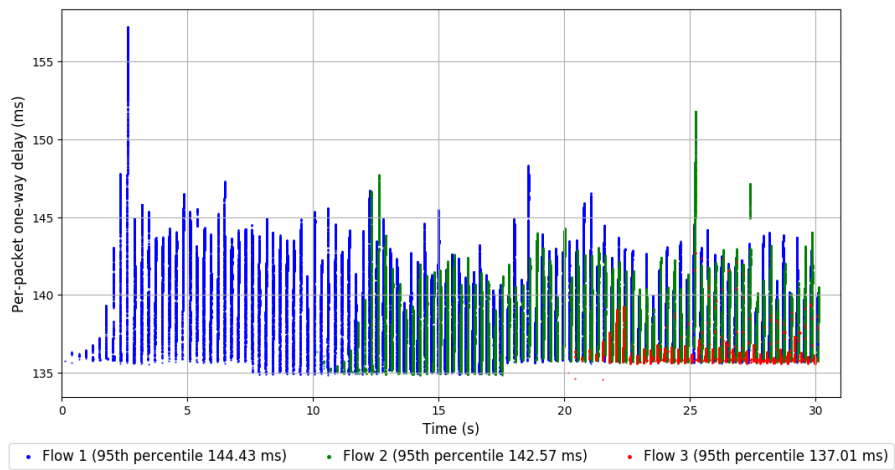
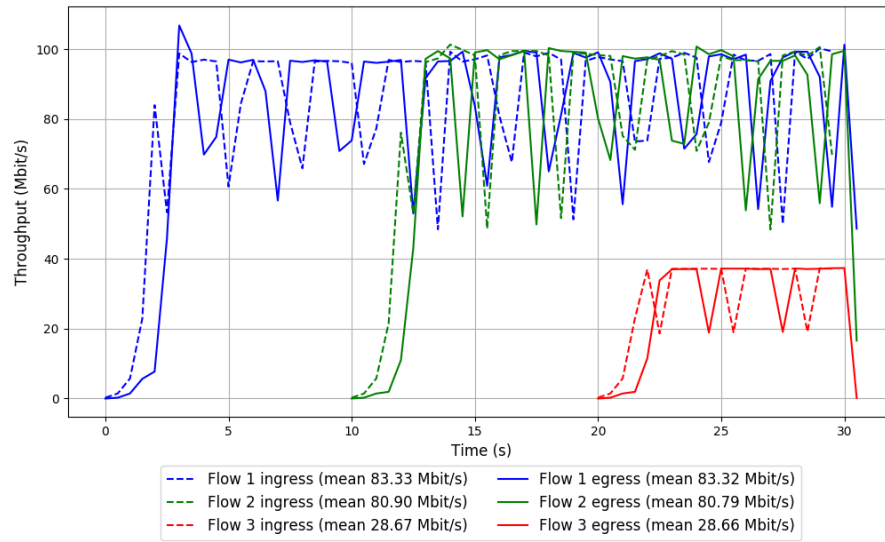
-- Flow 3:

Average throughput: 28.66 Mbit/s

95th percentile per-packet one-way delay: 137.007 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-06-06 06:56:51

End at: 2018-06-06 06:57:21

Local clock offset: -0.149 ms

Remote clock offset: 0.31 ms

Below is generated by plot.py at 2018-06-06 12:08:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 58.87 Mbit/s

95th percentile per-packet one-way delay: 140.379 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 29.46 Mbit/s

95th percentile per-packet one-way delay: 137.541 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 22.28 Mbit/s

95th percentile per-packet one-way delay: 141.846 ms

Loss rate: 0.00%

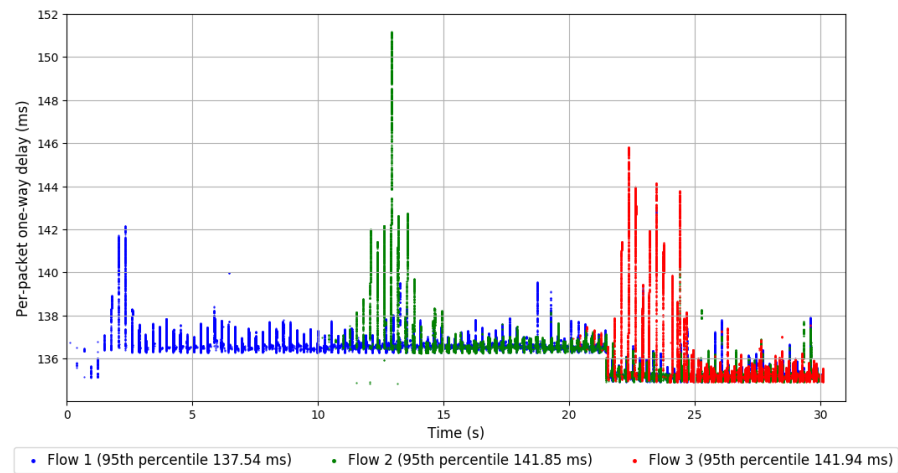
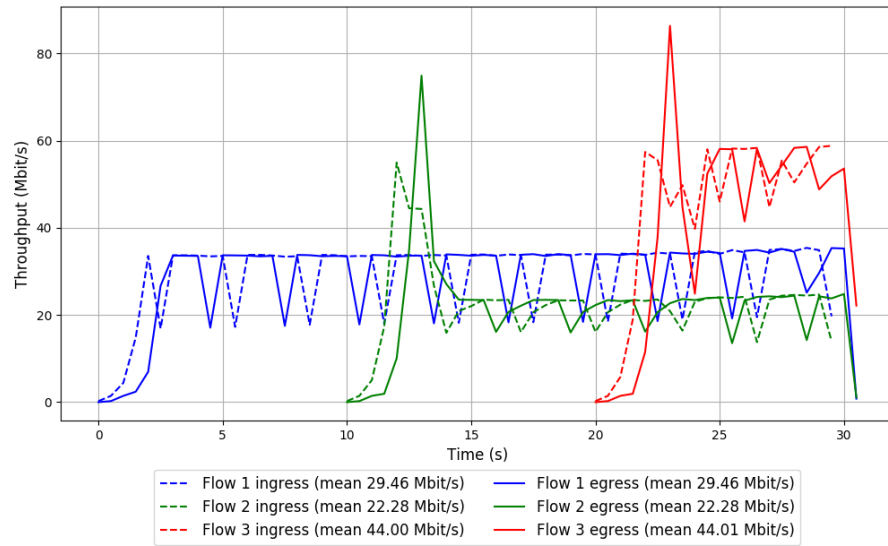
-- Flow 3:

Average throughput: 44.01 Mbit/s

95th percentile per-packet one-way delay: 141.940 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-06-06 07:21:46

End at: 2018-06-06 07:22:16

Local clock offset: 0.287 ms

Remote clock offset: 0.375 ms

Below is generated by plot.py at 2018-06-06 12:08:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 148.274 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 46.59 Mbit/s

95th percentile per-packet one-way delay: 141.868 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 49.68 Mbit/s

95th percentile per-packet one-way delay: 149.251 ms

Loss rate: 0.00%

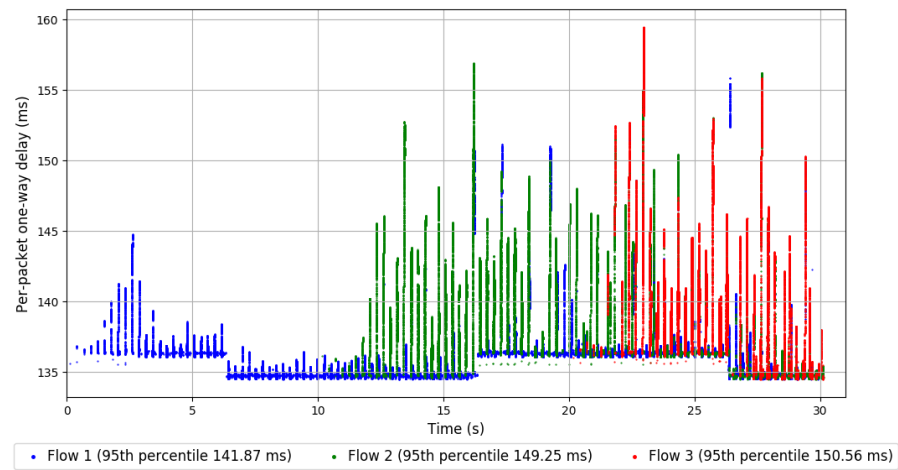
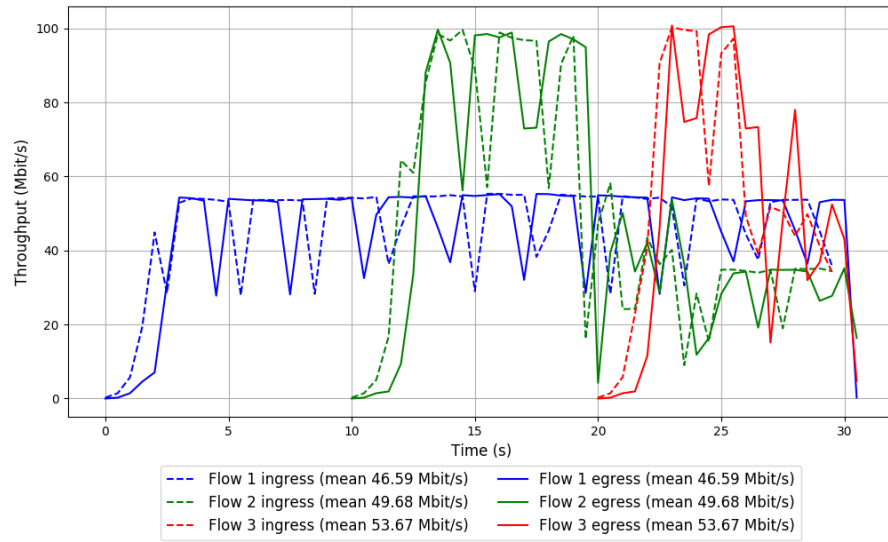
-- Flow 3:

Average throughput: 53.67 Mbit/s

95th percentile per-packet one-way delay: 150.561 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-06-06 07:46:25

End at: 2018-06-06 07:46:55

Local clock offset: 0.327 ms

Remote clock offset: 0.207 ms

Below is generated by plot.py at 2018-06-06 12:08:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.06 Mbit/s

95th percentile per-packet one-way delay: 148.789 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 82.01 Mbit/s

95th percentile per-packet one-way delay: 148.810 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.61 Mbit/s

95th percentile per-packet one-way delay: 147.437 ms

Loss rate: 0.30%

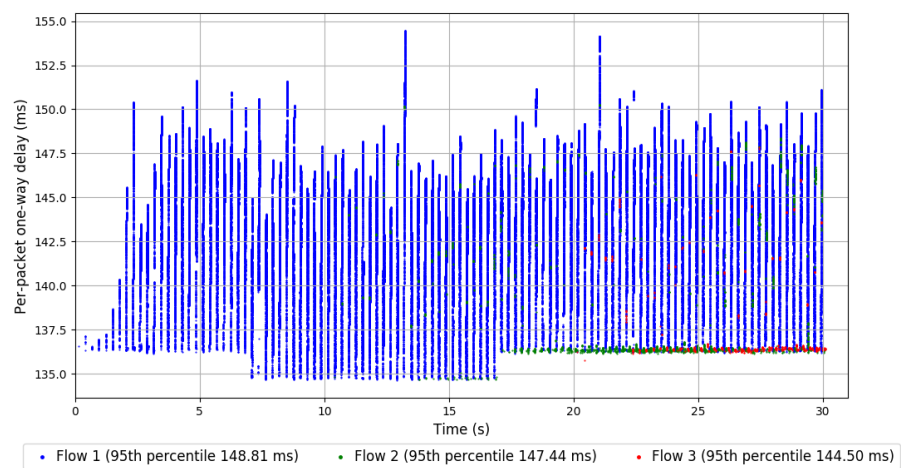
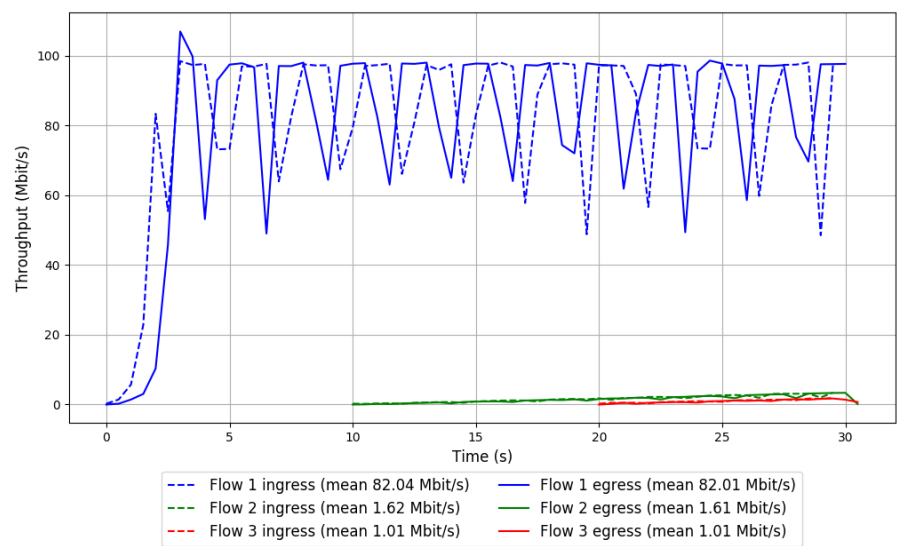
-- Flow 3:

Average throughput: 1.01 Mbit/s

95th percentile per-packet one-way delay: 144.497 ms

Loss rate: 0.24%

Run 4: Report of TCP Vegas — Data Link

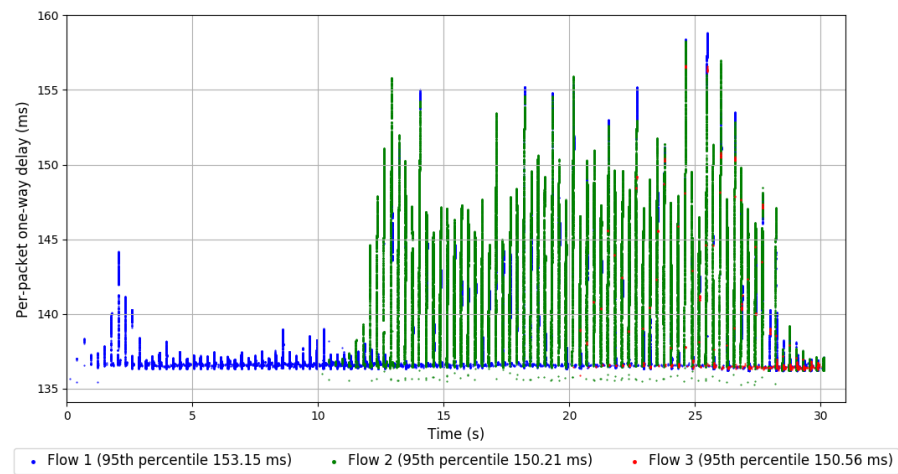
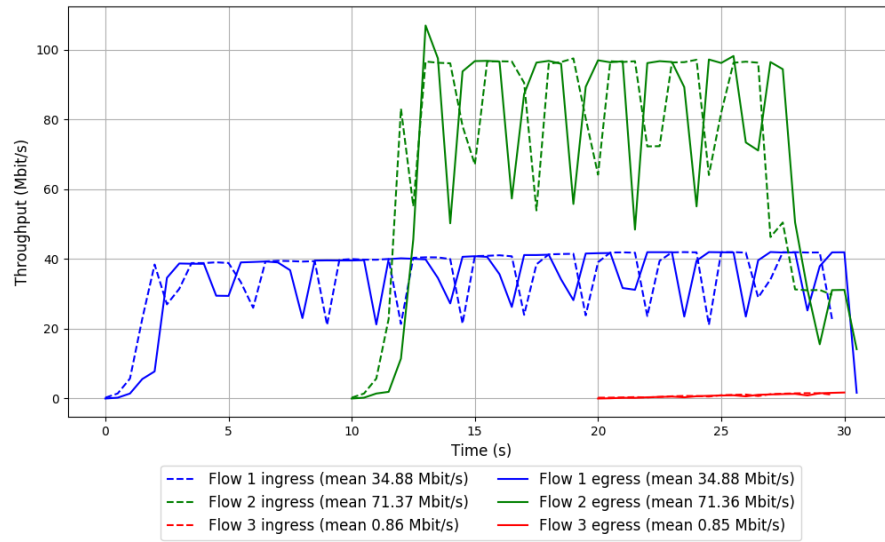


Run 5: Statistics of TCP Vegas

Start at: 2018-06-06 08:11:06
End at: 2018-06-06 08:11:36
Local clock offset: -0.082 ms
Remote clock offset: -0.157 ms

Below is generated by plot.py at 2018-06-06 12:08:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.70 Mbit/s
95th percentile per-packet one-way delay: 151.435 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 34.88 Mbit/s
95th percentile per-packet one-way delay: 153.145 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 71.36 Mbit/s
95th percentile per-packet one-way delay: 150.208 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.85 Mbit/s
95th percentile per-packet one-way delay: 150.555 ms
Loss rate: 1.00%

Run 5: Report of TCP Vegas — Data Link

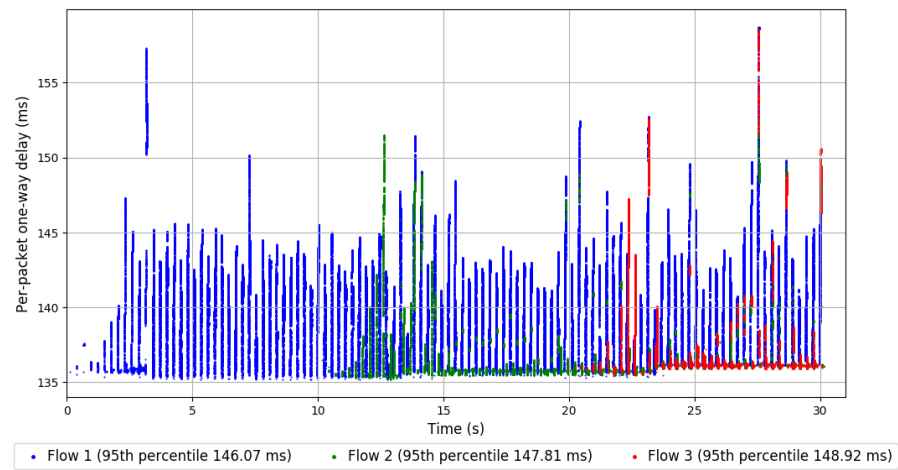
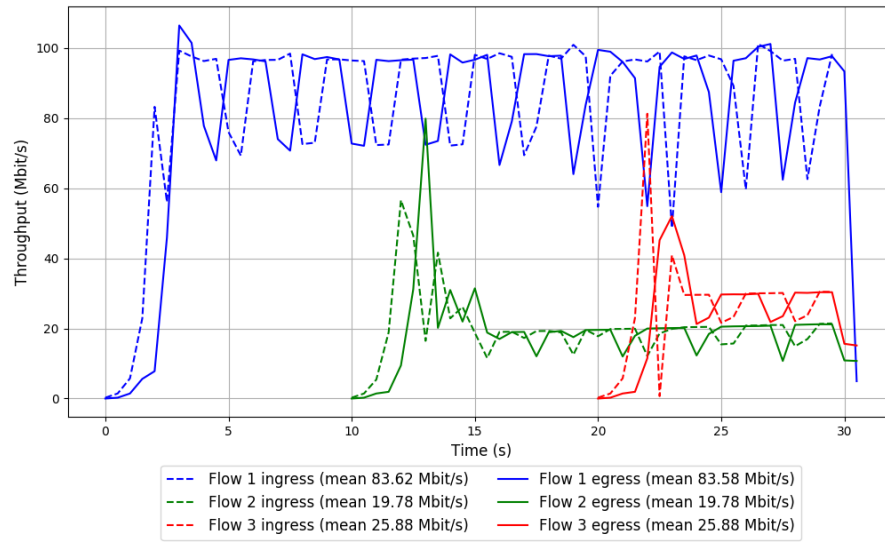


Run 6: Statistics of TCP Vegas

Start at: 2018-06-06 08:36:19
End at: 2018-06-06 08:36:49
Local clock offset: -0.171 ms
Remote clock offset: -0.137 ms

Below is generated by plot.py at 2018-06-06 12:08:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 105.02 Mbit/s
95th percentile per-packet one-way delay: 146.545 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 83.58 Mbit/s
95th percentile per-packet one-way delay: 146.066 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 19.78 Mbit/s
95th percentile per-packet one-way delay: 147.809 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 25.88 Mbit/s
95th percentile per-packet one-way delay: 148.921 ms
Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-06-06 09:01:17

End at: 2018-06-06 09:01:47

Local clock offset: 0.045 ms

Remote clock offset: 0.315 ms

Below is generated by plot.py at 2018-06-06 12:08:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 106.03 Mbit/s

95th percentile per-packet one-way delay: 150.461 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 45.26 Mbit/s

95th percentile per-packet one-way delay: 151.068 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 80.62 Mbit/s

95th percentile per-packet one-way delay: 148.818 ms

Loss rate: 0.00%

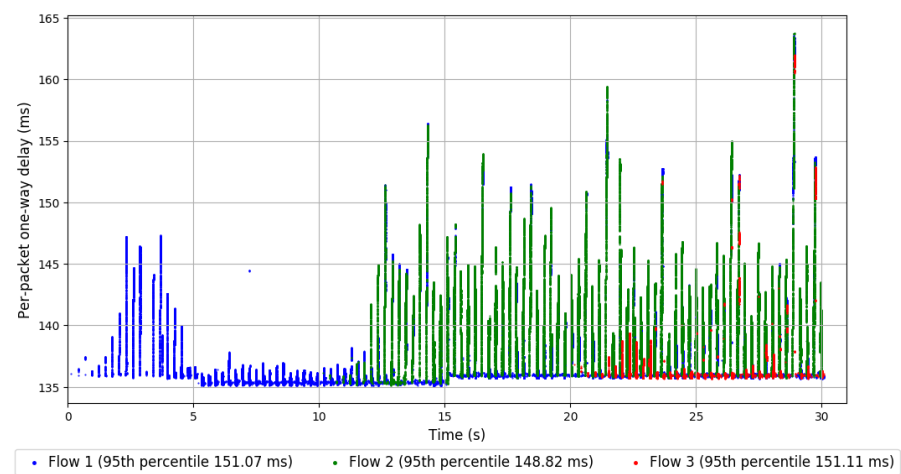
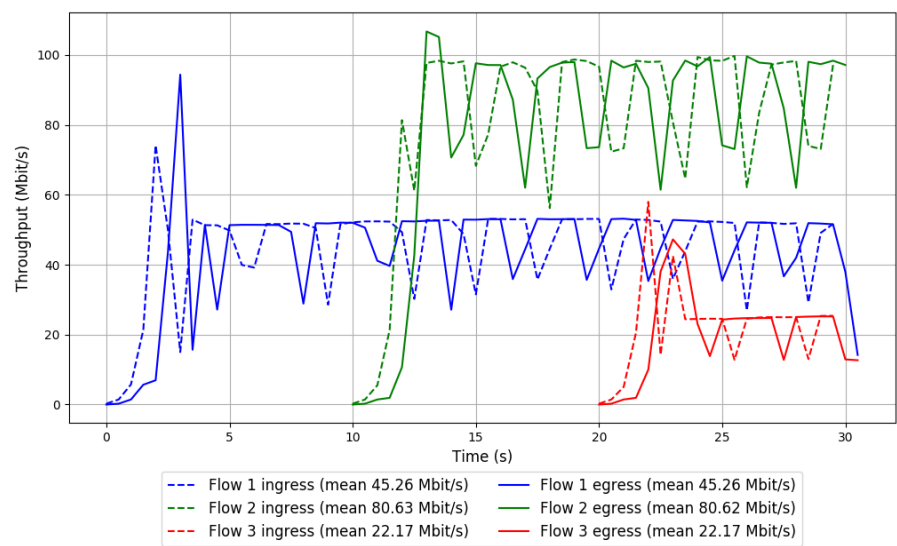
-- Flow 3:

Average throughput: 22.17 Mbit/s

95th percentile per-packet one-way delay: 151.107 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-06-06 09:26:10

End at: 2018-06-06 09:26:40

Local clock offset: -0.049 ms

Remote clock offset: -0.46 ms

Below is generated by plot.py at 2018-06-06 12:08:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.93 Mbit/s

95th percentile per-packet one-way delay: 139.700 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 32.74 Mbit/s

95th percentile per-packet one-way delay: 138.181 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.26 Mbit/s

95th percentile per-packet one-way delay: 141.779 ms

Loss rate: 0.00%

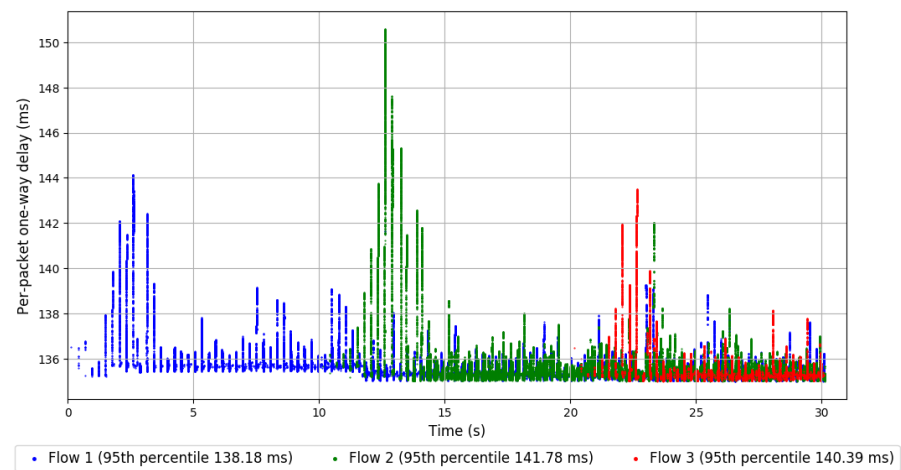
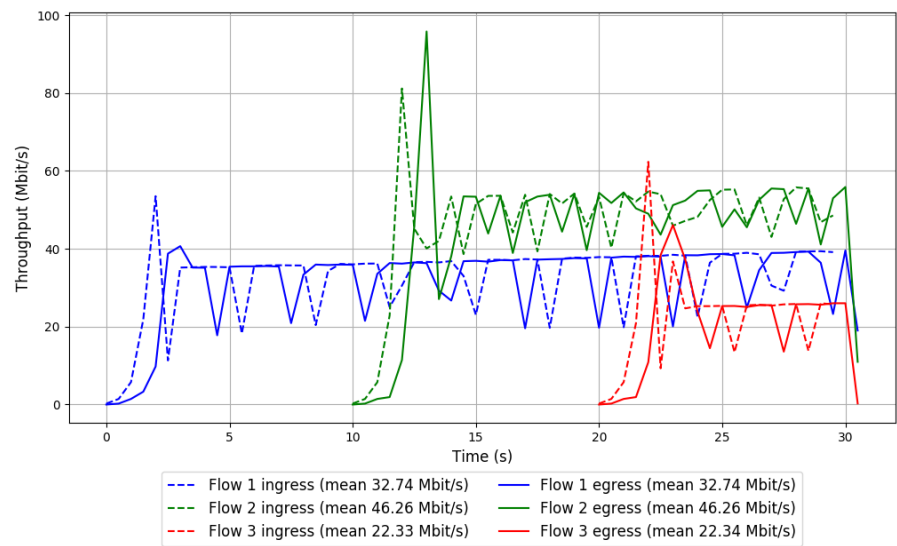
-- Flow 3:

Average throughput: 22.34 Mbit/s

95th percentile per-packet one-way delay: 140.390 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link

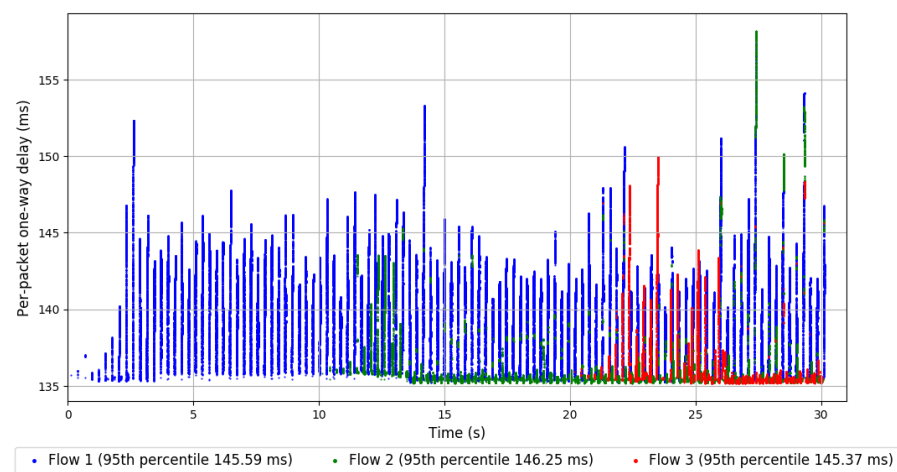
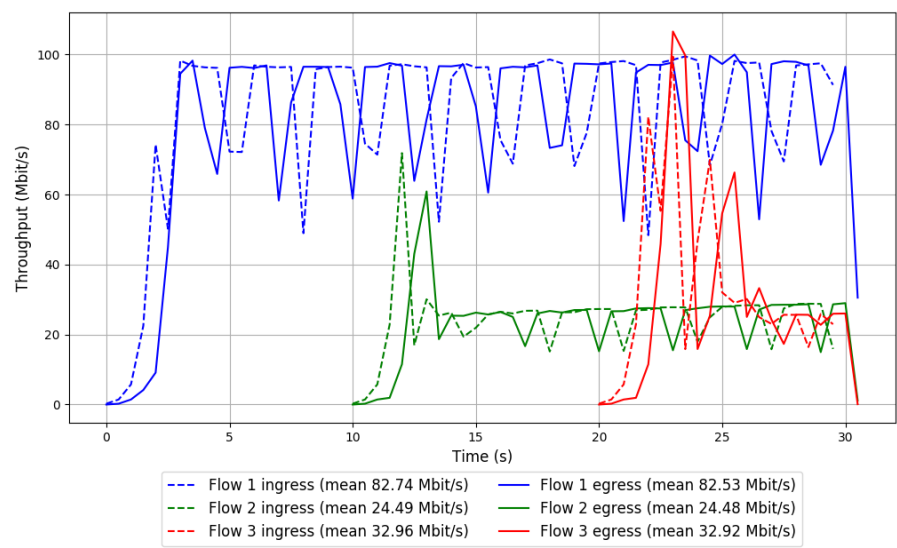


Run 9: Statistics of TCP Vegas

Start at: 2018-06-06 09:51:08
End at: 2018-06-06 09:51:38
Local clock offset: 0.187 ms
Remote clock offset: -0.048 ms

Below is generated by plot.py at 2018-06-06 12:08:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 109.77 Mbit/s
95th percentile per-packet one-way delay: 145.604 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 82.53 Mbit/s
95th percentile per-packet one-way delay: 145.595 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 24.48 Mbit/s
95th percentile per-packet one-way delay: 146.255 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 32.92 Mbit/s
95th percentile per-packet one-way delay: 145.371 ms
Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-06-06 10:16:02

End at: 2018-06-06 10:16:32

Local clock offset: -0.33 ms

Remote clock offset: 0.006 ms

Below is generated by plot.py at 2018-06-06 12:08:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.78 Mbit/s

95th percentile per-packet one-way delay: 143.160 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 39.86 Mbit/s

95th percentile per-packet one-way delay: 142.295 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 24.61 Mbit/s

95th percentile per-packet one-way delay: 144.814 ms

Loss rate: 0.00%

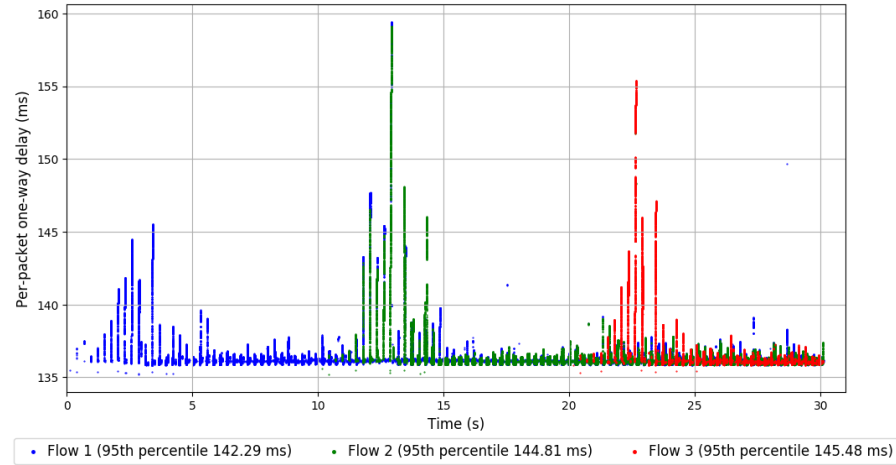
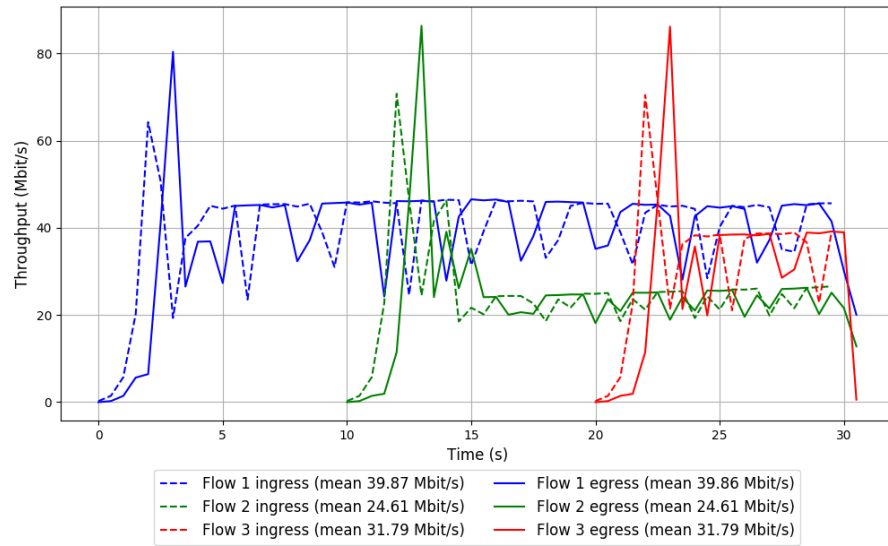
-- Flow 3:

Average throughput: 31.79 Mbit/s

95th percentile per-packet one-way delay: 145.483 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

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

End at: 2018-06-06 06:27:57

Local clock offset: -0.279 ms

Remote clock offset: 0.268 ms

Below is generated by plot.py at 2018-06-06 12:10:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 196.63 Mbit/s

95th percentile per-packet one-way delay: 216.136 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 85.31 Mbit/s

95th percentile per-packet one-way delay: 218.407 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 123.00 Mbit/s

95th percentile per-packet one-way delay: 216.431 ms

Loss rate: 1.98%

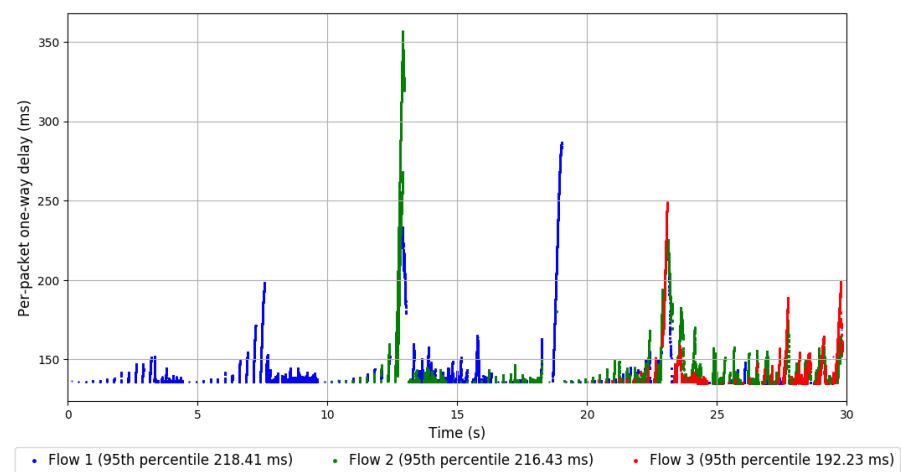
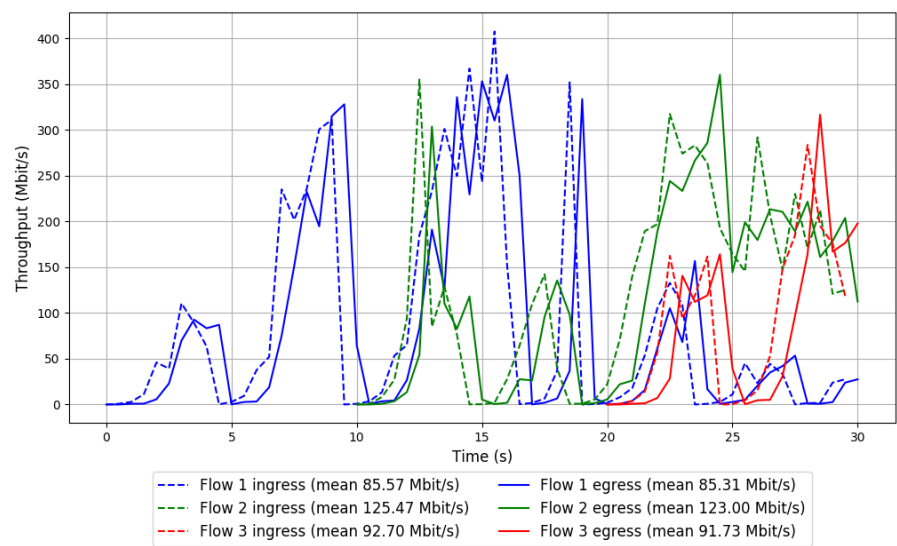
-- Flow 3:

Average throughput: 91.73 Mbit/s

95th percentile per-packet one-way delay: 192.227 ms

Loss rate: 1.07%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-06-06 06:52:15

End at: 2018-06-06 06:52:45

Local clock offset: 0.125 ms

Remote clock offset: 0.305 ms

Below is generated by plot.py at 2018-06-06 12:10:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 221.11 Mbit/s

95th percentile per-packet one-way delay: 185.558 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 166.44 Mbit/s

95th percentile per-packet one-way delay: 165.789 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 51.10 Mbit/s

95th percentile per-packet one-way delay: 312.970 ms

Loss rate: 2.81%

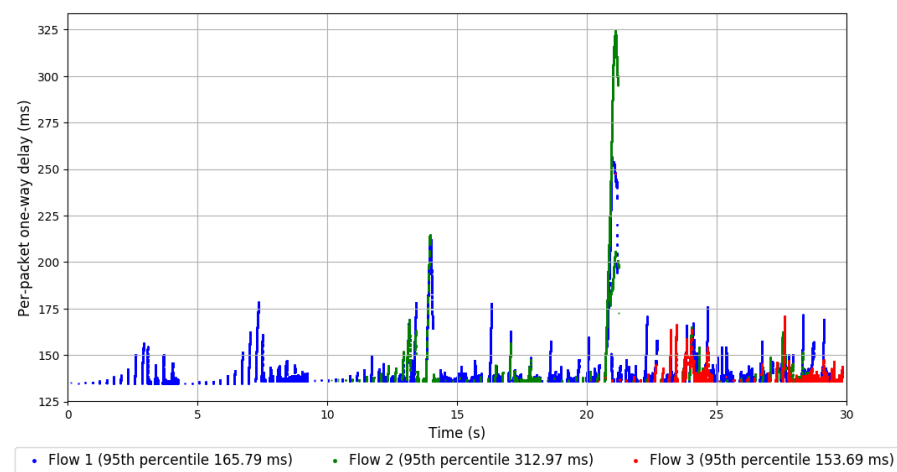
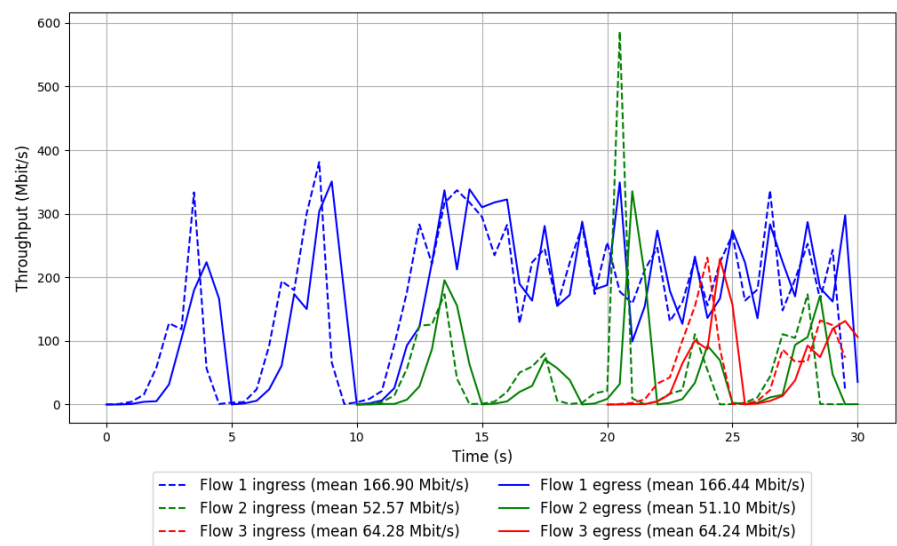
-- Flow 3:

Average throughput: 64.24 Mbit/s

95th percentile per-packet one-way delay: 153.687 ms

Loss rate: 0.01%

Run 2: Report of Verus — Data Link

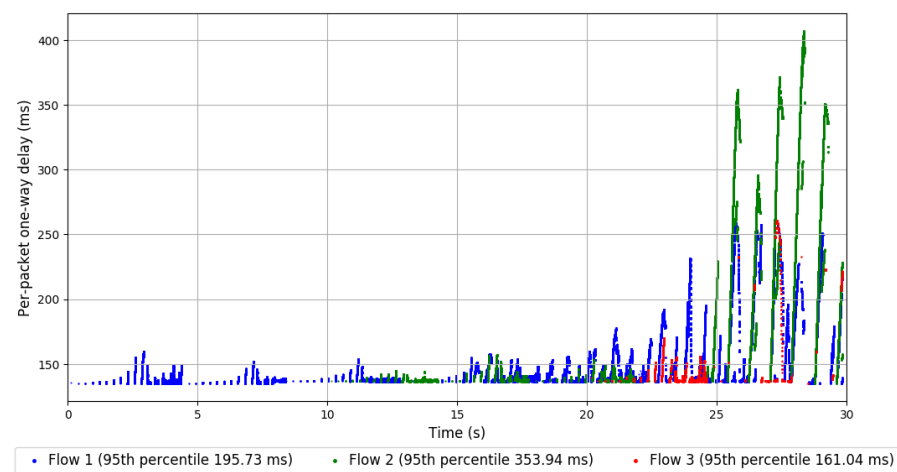
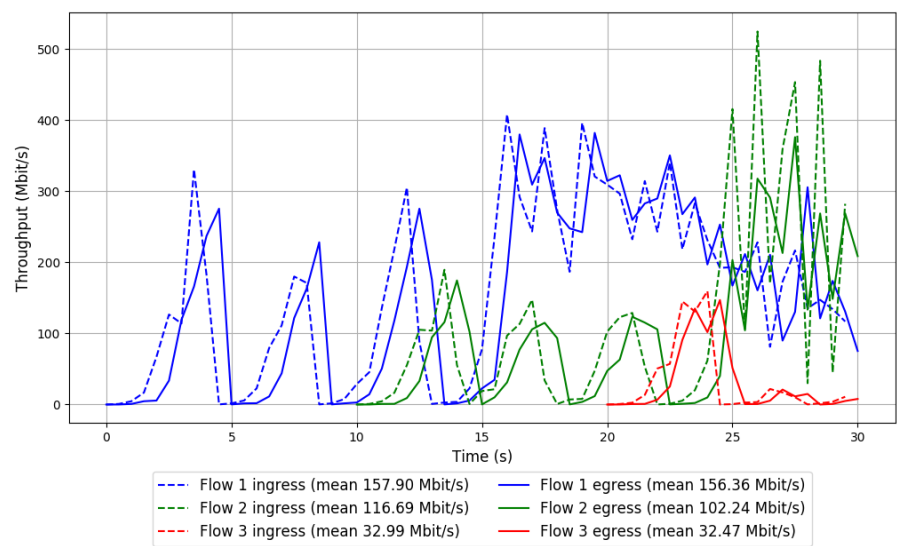


Run 3: Statistics of Verus

Start at: 2018-06-06 07:17:14
End at: 2018-06-06 07:17:44
Local clock offset: -0.069 ms
Remote clock offset: 0.37 ms

Below is generated by plot.py at 2018-06-06 12:11:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 234.70 Mbit/s
95th percentile per-packet one-way delay: 315.435 ms
Loss rate: 4.55%
-- Flow 1:
Average throughput: 156.36 Mbit/s
95th percentile per-packet one-way delay: 195.732 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 102.24 Mbit/s
95th percentile per-packet one-way delay: 353.939 ms
Loss rate: 12.39%
-- Flow 3:
Average throughput: 32.47 Mbit/s
95th percentile per-packet one-way delay: 161.044 ms
Loss rate: 0.75%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-06-06 07:41:44

End at: 2018-06-06 07:42:14

Local clock offset: 0.029 ms

Remote clock offset: 0.454 ms

Below is generated by plot.py at 2018-06-06 12:11:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 215.95 Mbit/s

95th percentile per-packet one-way delay: 321.571 ms

Loss rate: 3.40%

-- Flow 1:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 288.519 ms

Loss rate: 1.51%

-- Flow 2:

Average throughput: 83.82 Mbit/s

95th percentile per-packet one-way delay: 230.496 ms

Loss rate: 1.65%

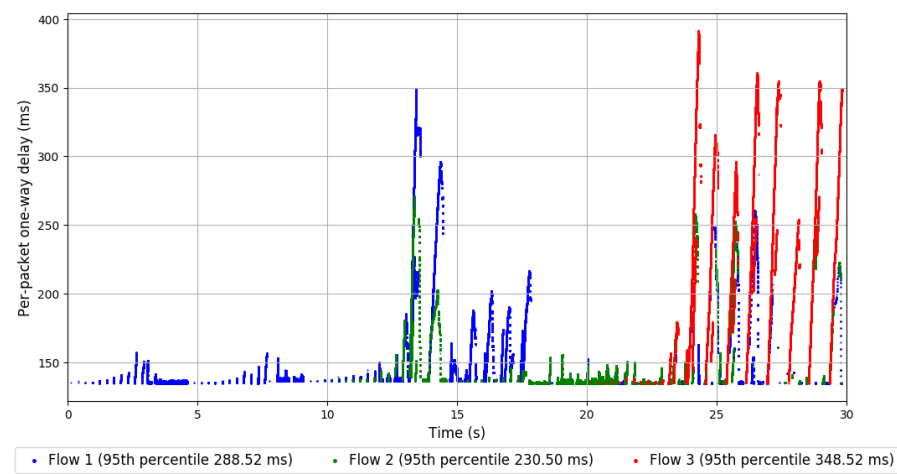
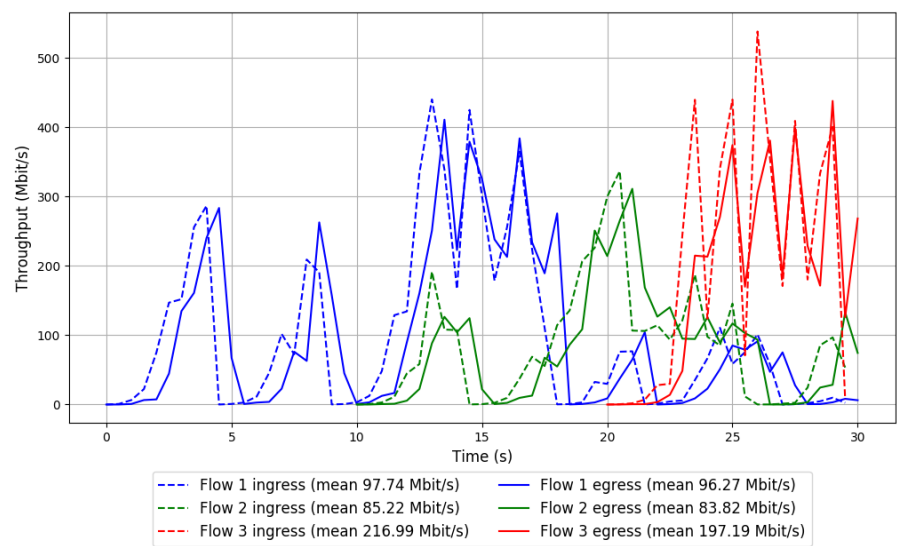
-- Flow 3:

Average throughput: 197.19 Mbit/s

95th percentile per-packet one-way delay: 348.521 ms

Loss rate: 7.50%

Run 4: Report of Verus — Data Link

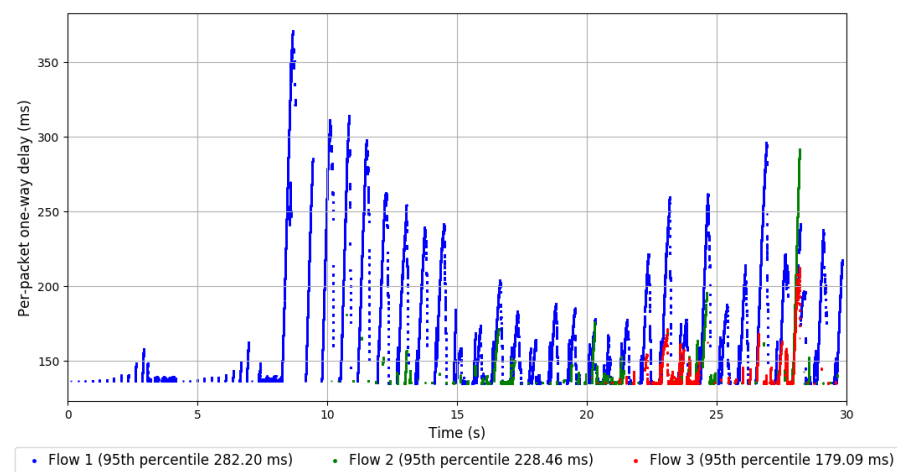
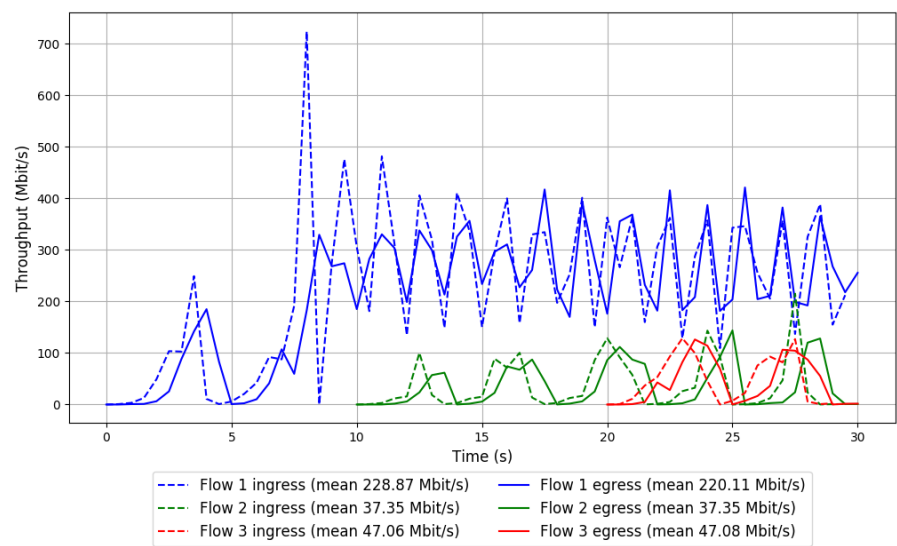


Run 5: Statistics of Verus

Start at: 2018-06-06 08:06:20
End at: 2018-06-06 08:06:50
Local clock offset: -0.096 ms
Remote clock offset: -0.164 ms

Below is generated by plot.py at 2018-06-06 12:12:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 259.57 Mbit/s
95th percentile per-packet one-way delay: 277.484 ms
Loss rate: 3.27%
-- Flow 1:
Average throughput: 220.11 Mbit/s
95th percentile per-packet one-way delay: 282.201 ms
Loss rate: 3.83%
-- Flow 2:
Average throughput: 37.35 Mbit/s
95th percentile per-packet one-way delay: 228.455 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 47.08 Mbit/s
95th percentile per-packet one-way delay: 179.087 ms
Loss rate: 0.00%

Run 5: Report of Verus — Data Link

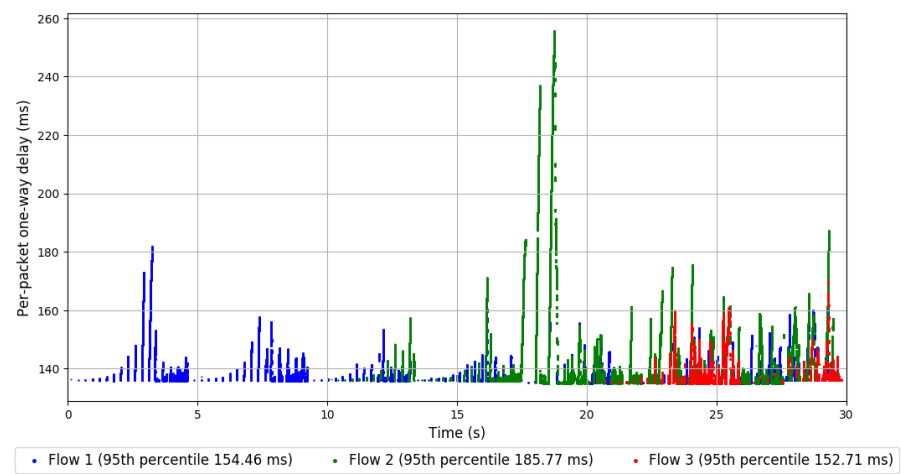
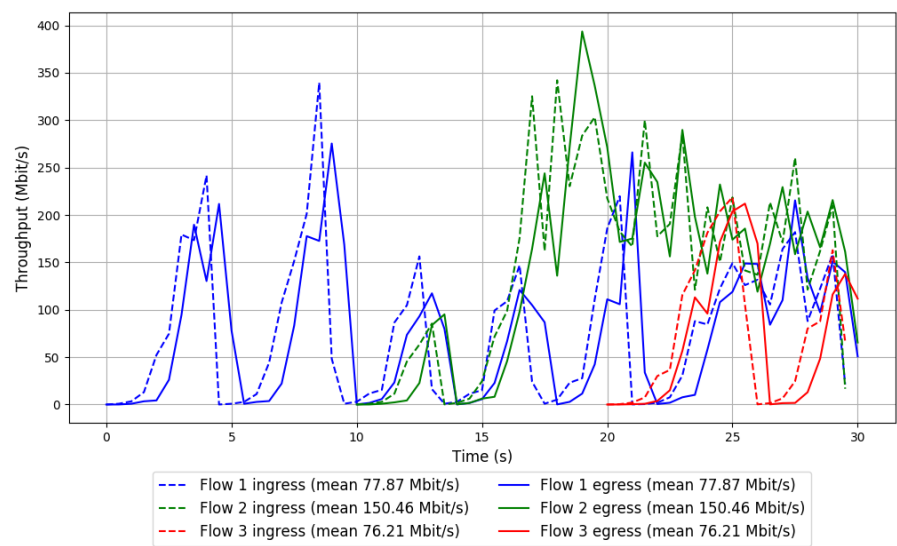


Run 6: Statistics of Verus

Start at: 2018-06-06 08:31:34
End at: 2018-06-06 08:32:04
Local clock offset: 0.034 ms
Remote clock offset: -0.121 ms

Below is generated by plot.py at 2018-06-06 12:12:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 201.55 Mbit/s
95th percentile per-packet one-way delay: 167.488 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 77.87 Mbit/s
95th percentile per-packet one-way delay: 154.462 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 150.46 Mbit/s
95th percentile per-packet one-way delay: 185.772 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 76.21 Mbit/s
95th percentile per-packet one-way delay: 152.706 ms
Loss rate: 0.00%

Run 6: Report of Verus — Data Link

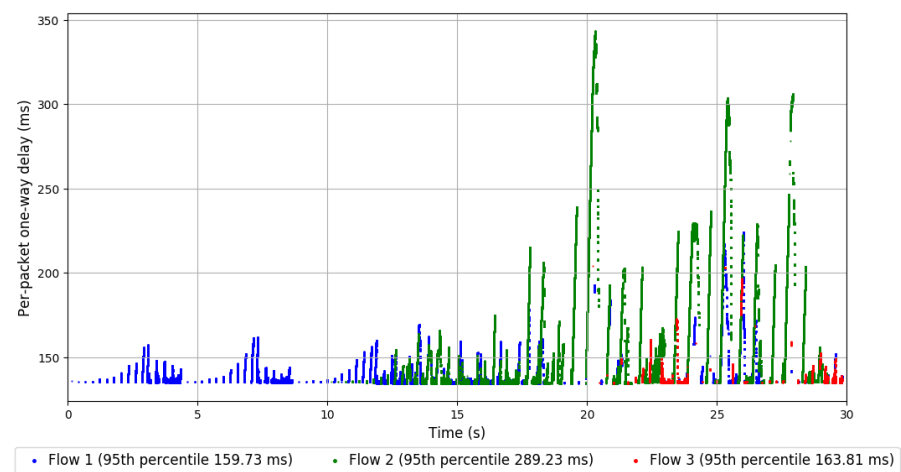
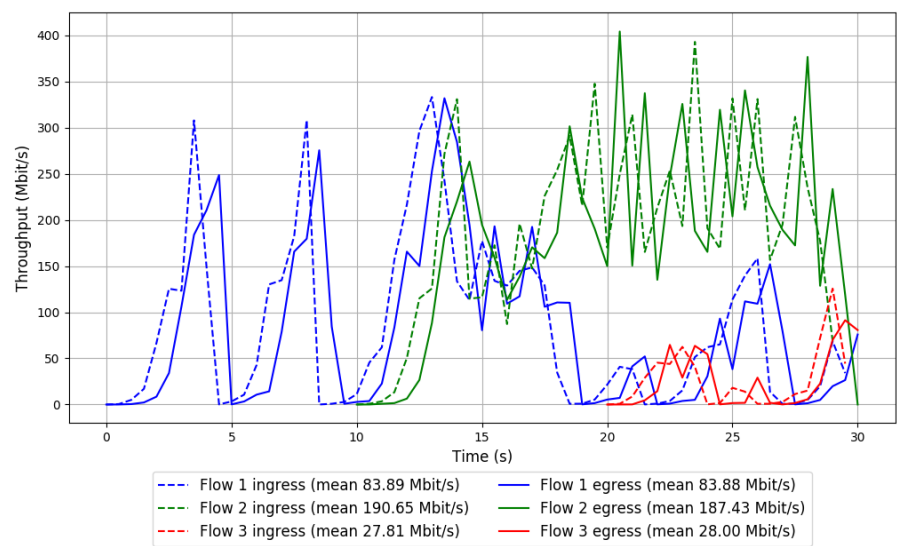


Run 7: Statistics of Verus

Start at: 2018-06-06 08:56:40
End at: 2018-06-06 08:57:10
Local clock offset: -0.139 ms
Remote clock offset: -0.465 ms

Below is generated by plot.py at 2018-06-06 12:12:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 215.60 Mbit/s
95th percentile per-packet one-way delay: 242.694 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 83.88 Mbit/s
95th percentile per-packet one-way delay: 159.726 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 187.43 Mbit/s
95th percentile per-packet one-way delay: 289.230 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 28.00 Mbit/s
95th percentile per-packet one-way delay: 163.813 ms
Loss rate: 0.00%

Run 7: Report of Verus — Data Link

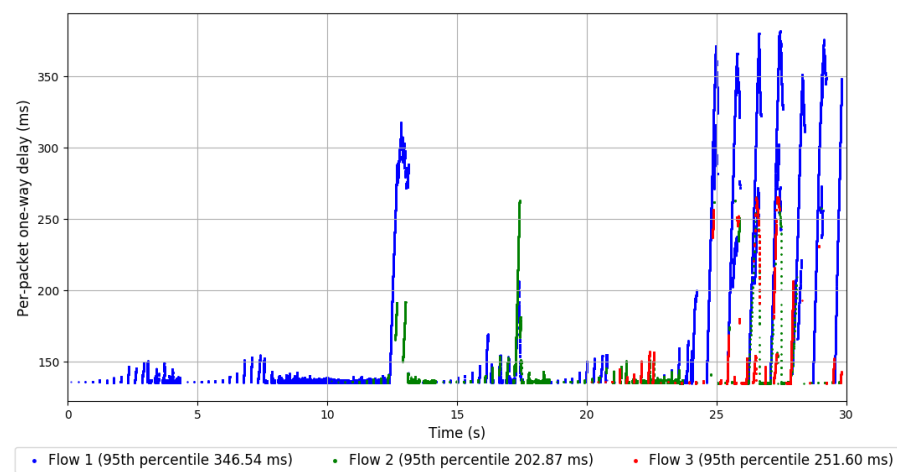
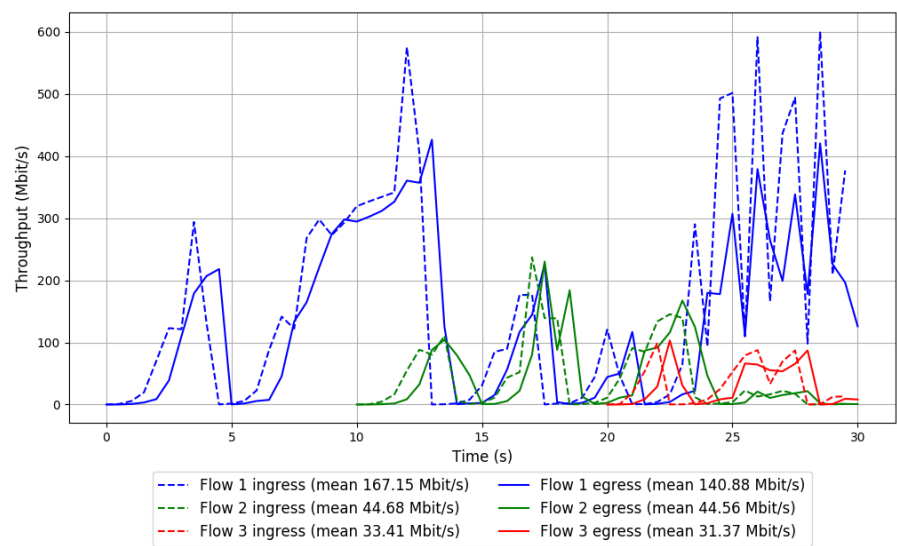


Run 8: Statistics of Verus

Start at: 2018-06-06 09:21:28
End at: 2018-06-06 09:21:58
Local clock offset: -0.165 ms
Remote clock offset: -0.05 ms

Below is generated by plot.py at 2018-06-06 12:12:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 180.47 Mbit/s
95th percentile per-packet one-way delay: 341.889 ms
Loss rate: 13.01%
-- Flow 1:
Average throughput: 140.88 Mbit/s
95th percentile per-packet one-way delay: 346.535 ms
Loss rate: 15.71%
-- Flow 2:
Average throughput: 44.56 Mbit/s
95th percentile per-packet one-way delay: 202.871 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 31.37 Mbit/s
95th percentile per-packet one-way delay: 251.600 ms
Loss rate: 6.02%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-06-06 09:46:15

End at: 2018-06-06 09:46:45

Local clock offset: -0.2 ms

Remote clock offset: -0.06 ms

Below is generated by plot.py at 2018-06-06 12:15:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.39 Mbit/s

95th percentile per-packet one-way delay: 206.204 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 199.35 Mbit/s

95th percentile per-packet one-way delay: 209.150 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 166.13 Mbit/s

95th percentile per-packet one-way delay: 204.477 ms

Loss rate: 1.94%

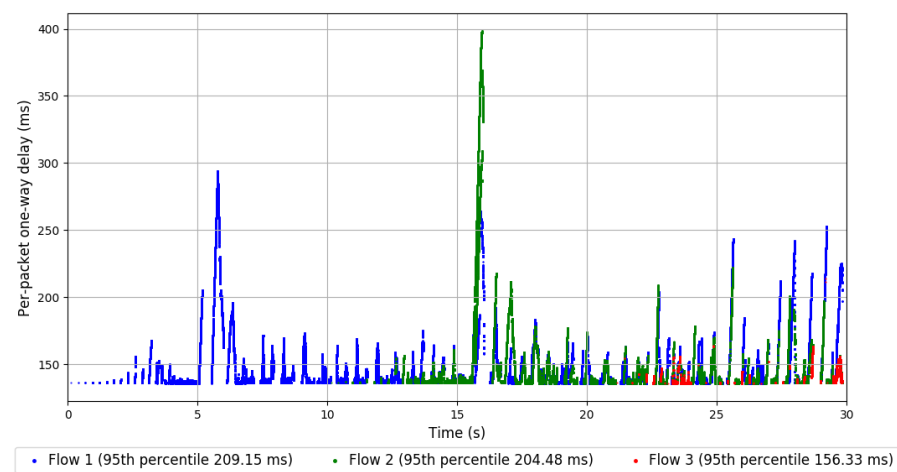
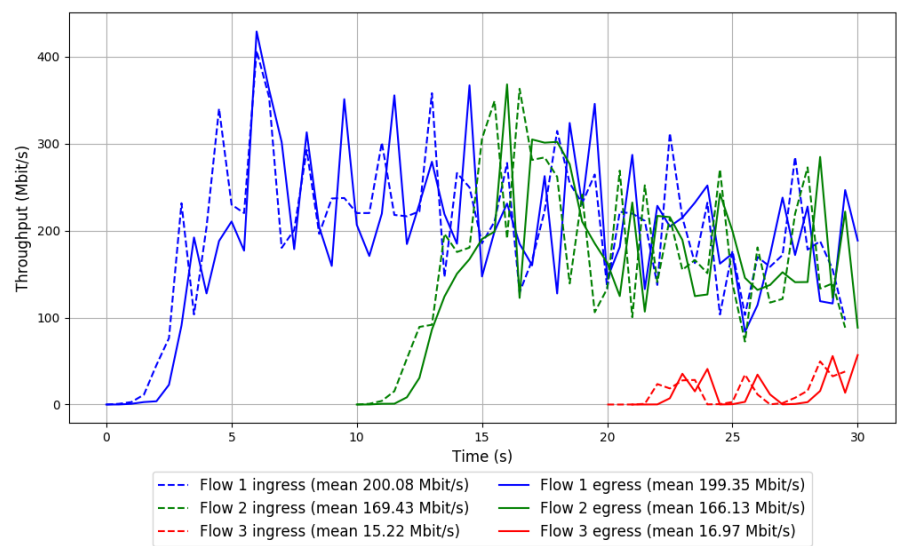
-- Flow 3:

Average throughput: 16.97 Mbit/s

95th percentile per-packet one-way delay: 156.333 ms

Loss rate: 0.01%

Run 9: Report of Verus — Data Link

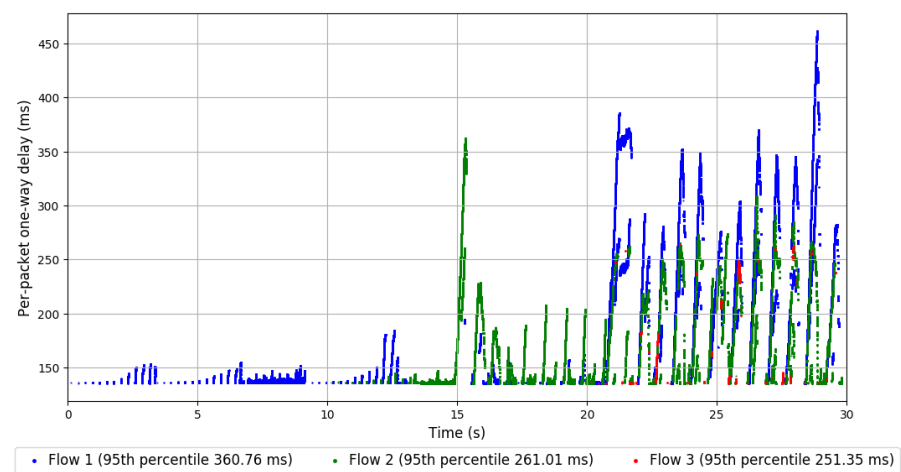
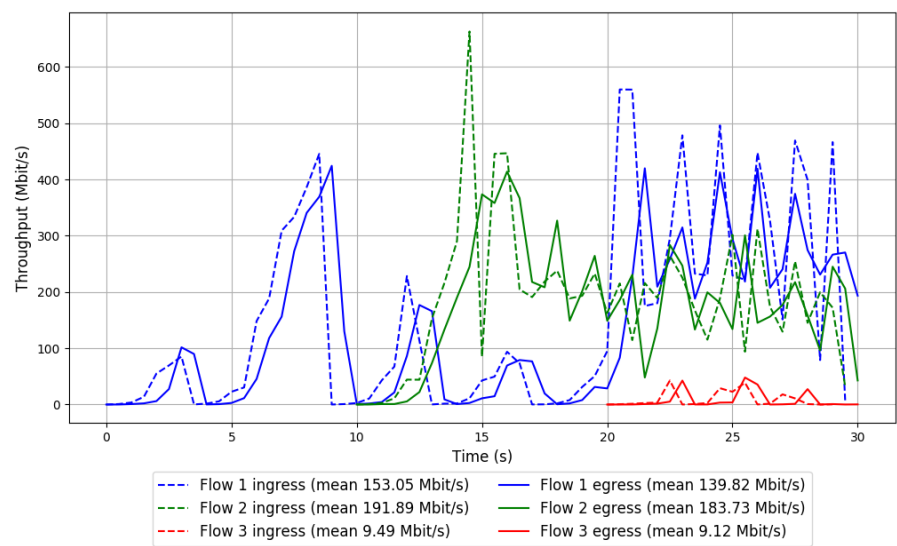


Run 10: Statistics of Verus

Start at: 2018-06-06 10:11:18
End at: 2018-06-06 10:11:48
Local clock offset: -0.039 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-06-06 12:15:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 263.99 Mbit/s
95th percentile per-packet one-way delay: 342.369 ms
Loss rate: 6.51%
-- Flow 1:
Average throughput: 139.82 Mbit/s
95th percentile per-packet one-way delay: 360.763 ms
Loss rate: 8.48%
-- Flow 2:
Average throughput: 183.73 Mbit/s
95th percentile per-packet one-way delay: 261.014 ms
Loss rate: 4.23%
-- Flow 3:
Average throughput: 9.12 Mbit/s
95th percentile per-packet one-way delay: 251.354 ms
Loss rate: 2.85%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-06-06 06:22:53

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

Local clock offset: -0.123 ms

Remote clock offset: 0.23 ms

Below is generated by plot.py at 2018-06-06 12:19:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 470.52 Mbit/s

95th percentile per-packet one-way delay: 138.620 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 308.23 Mbit/s

95th percentile per-packet one-way delay: 138.489 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 185.29 Mbit/s

95th percentile per-packet one-way delay: 137.922 ms

Loss rate: 0.00%

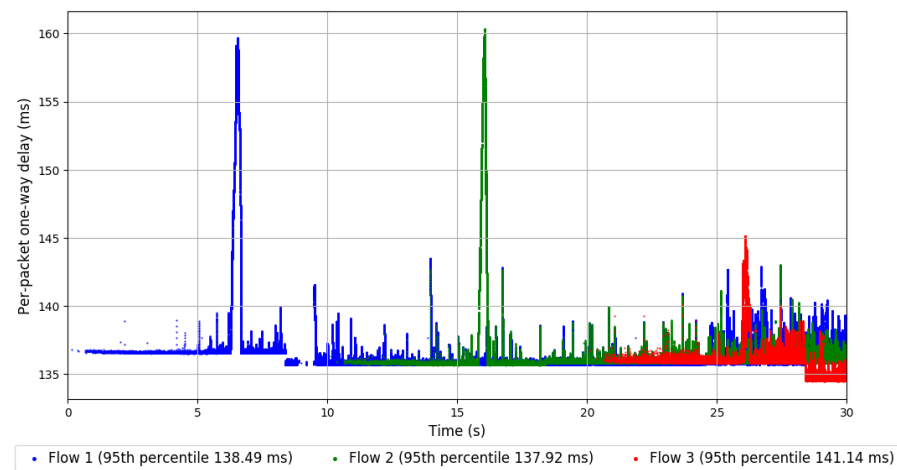
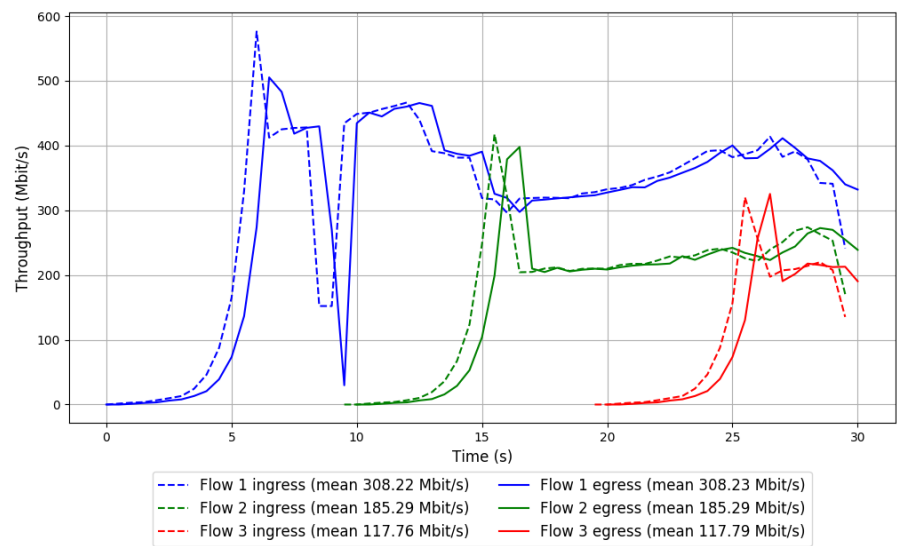
-- Flow 3:

Average throughput: 117.79 Mbit/s

95th percentile per-packet one-way delay: 141.140 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-06-06 06:47:42

End at: 2018-06-06 06:48:12

Local clock offset: 0.016 ms

Remote clock offset: 0.328 ms

Below is generated by plot.py at 2018-06-06 12:19:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 463.06 Mbit/s

95th percentile per-packet one-way delay: 138.133 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 282.76 Mbit/s

95th percentile per-packet one-way delay: 138.624 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 186.08 Mbit/s

95th percentile per-packet one-way delay: 137.391 ms

Loss rate: 0.00%

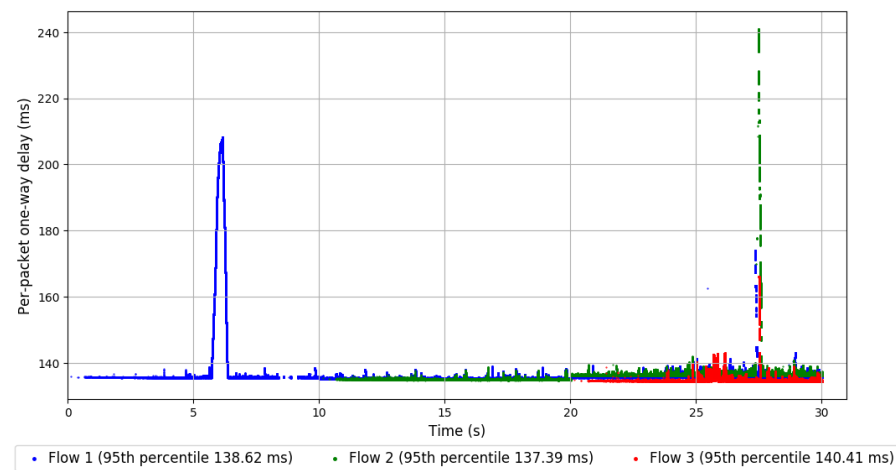
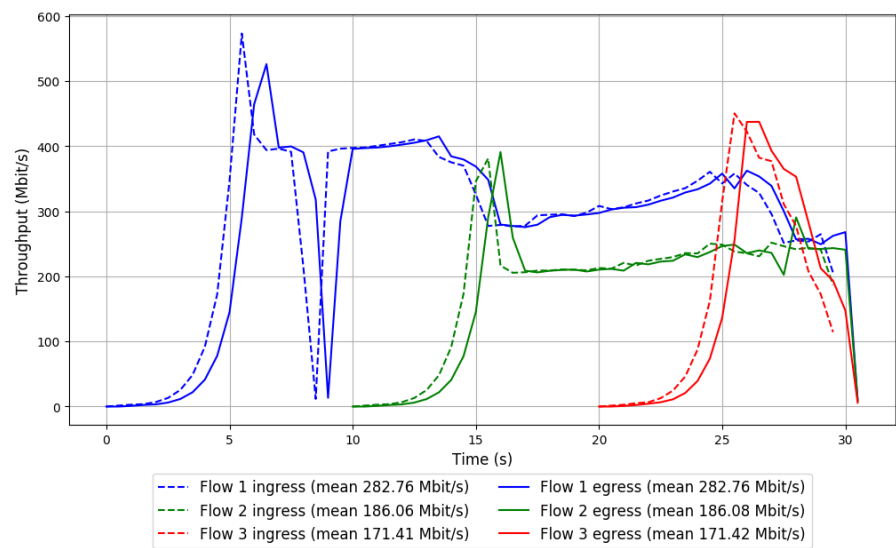
-- Flow 3:

Average throughput: 171.42 Mbit/s

95th percentile per-packet one-way delay: 140.411 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-06-06 07:12:23

End at: 2018-06-06 07:12:53

Local clock offset: -0.059 ms

Remote clock offset: 0.748 ms

Below is generated by plot.py at 2018-06-06 12:19:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 477.25 Mbit/s

95th percentile per-packet one-way delay: 157.006 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 305.33 Mbit/s

95th percentile per-packet one-way delay: 139.023 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 175.71 Mbit/s

95th percentile per-packet one-way delay: 137.209 ms

Loss rate: 0.00%

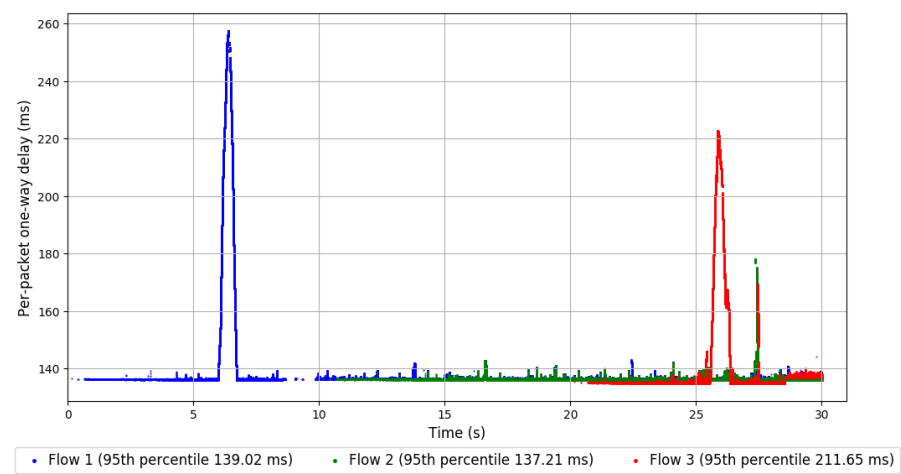
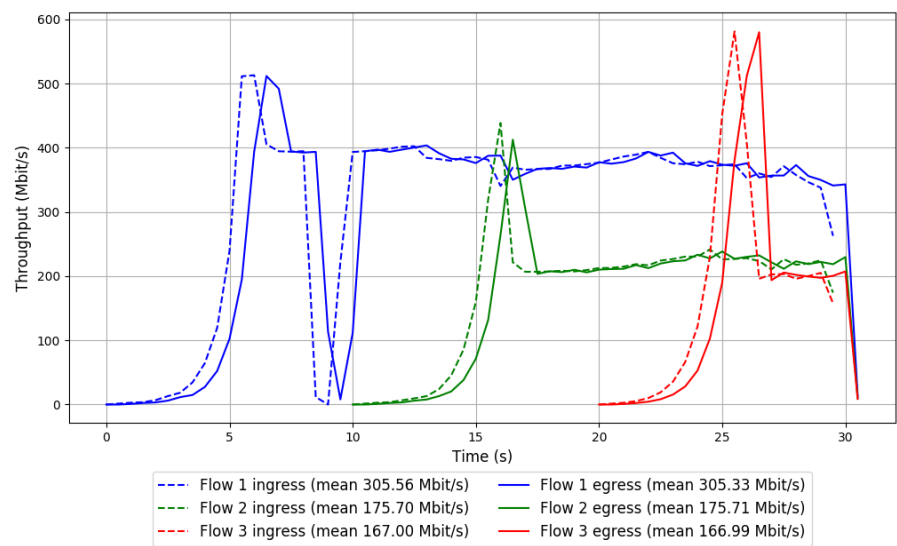
-- Flow 3:

Average throughput: 166.99 Mbit/s

95th percentile per-packet one-way delay: 211.645 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-06-06 07:37:09

End at: 2018-06-06 07:37:39

Local clock offset: 0.134 ms

Remote clock offset: 0.461 ms

Below is generated by plot.py at 2018-06-06 12:19:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 467.69 Mbit/s

95th percentile per-packet one-way delay: 137.902 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 304.66 Mbit/s

95th percentile per-packet one-way delay: 137.564 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 186.86 Mbit/s

95th percentile per-packet one-way delay: 137.207 ms

Loss rate: 0.00%

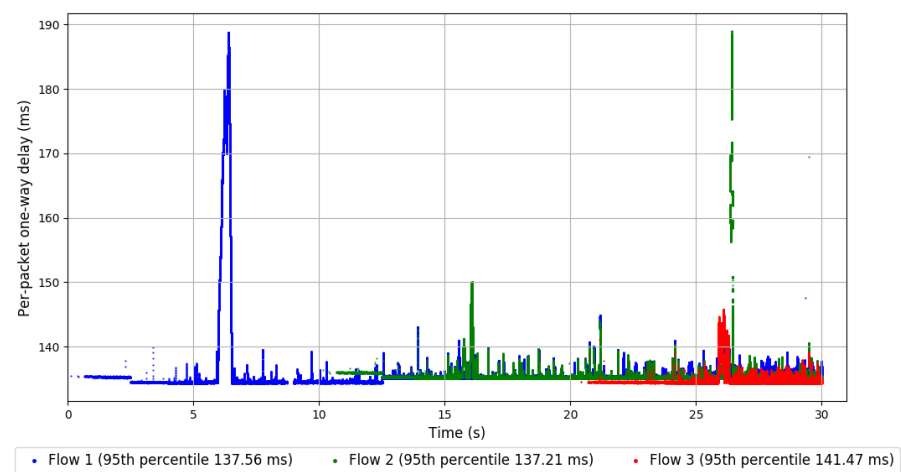
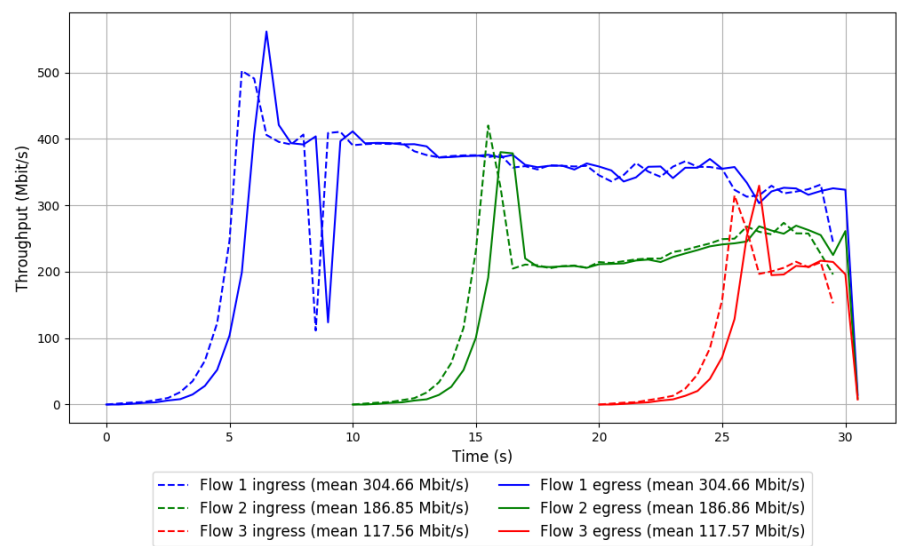
-- Flow 3:

Average throughput: 117.57 Mbit/s

95th percentile per-packet one-way delay: 141.465 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link

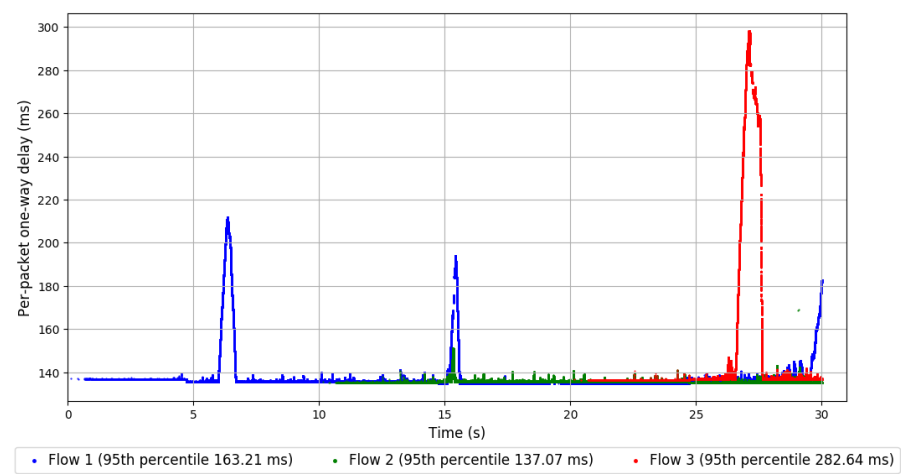
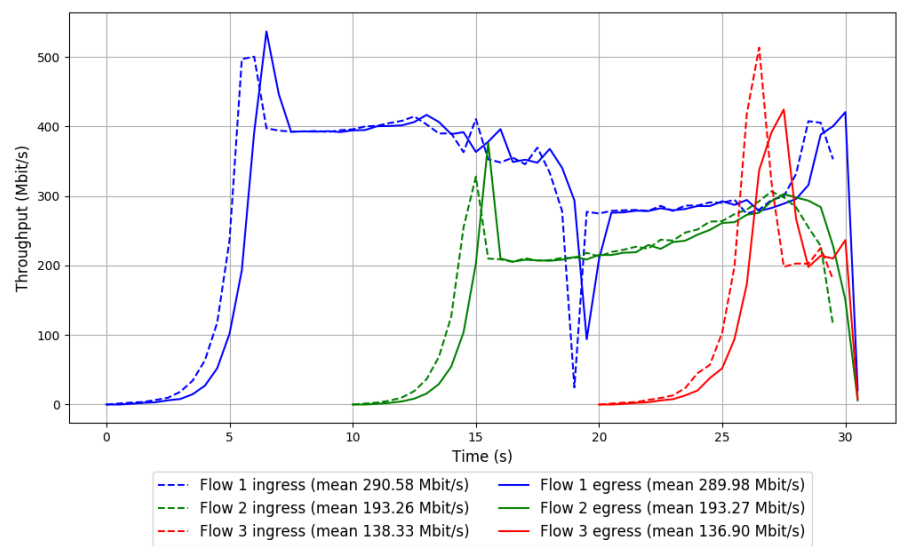


Run 5: Statistics of PCC-Vivace

Start at: 2018-06-06 08:01:47
End at: 2018-06-06 08:02:17
Local clock offset: -0.239 ms
Remote clock offset: -0.072 ms

Below is generated by plot.py at 2018-06-06 12:19:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 463.64 Mbit/s
95th percentile per-packet one-way delay: 172.531 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 289.98 Mbit/s
95th percentile per-packet one-way delay: 163.207 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 193.27 Mbit/s
95th percentile per-packet one-way delay: 137.073 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 136.90 Mbit/s
95th percentile per-packet one-way delay: 282.645 ms
Loss rate: 1.04%

Run 5: Report of PCC-Vivace — Data Link

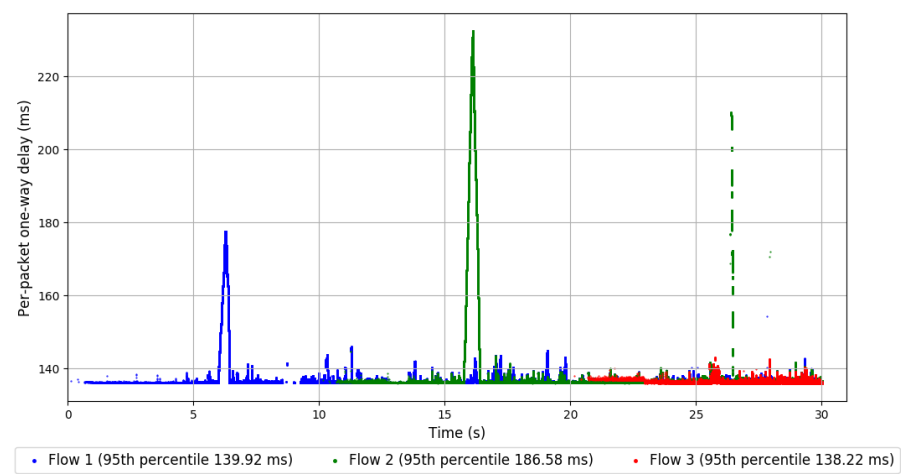
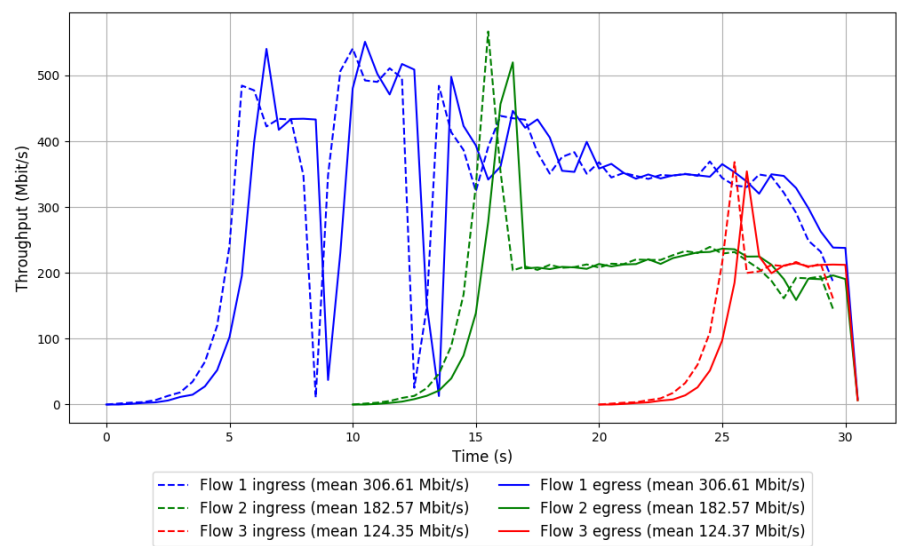


Run 6: Statistics of PCC-Vivace

Start at: 2018-06-06 08:26:59
End at: 2018-06-06 08:27:29
Local clock offset: -0.239 ms
Remote clock offset: -0.111 ms

Below is generated by plot.py at 2018-06-06 12:20:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 469.05 Mbit/s
95th percentile per-packet one-way delay: 141.517 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 306.61 Mbit/s
95th percentile per-packet one-way delay: 139.917 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 182.57 Mbit/s
95th percentile per-packet one-way delay: 186.577 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 124.37 Mbit/s
95th percentile per-packet one-way delay: 138.219 ms
Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link

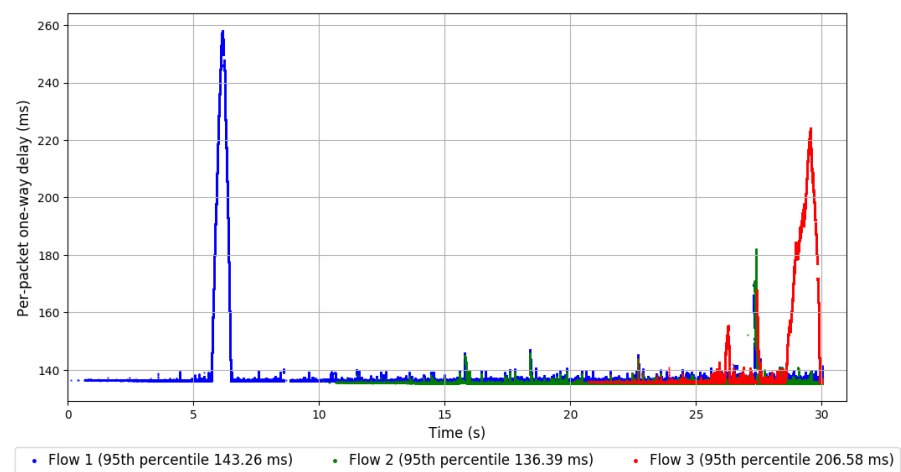
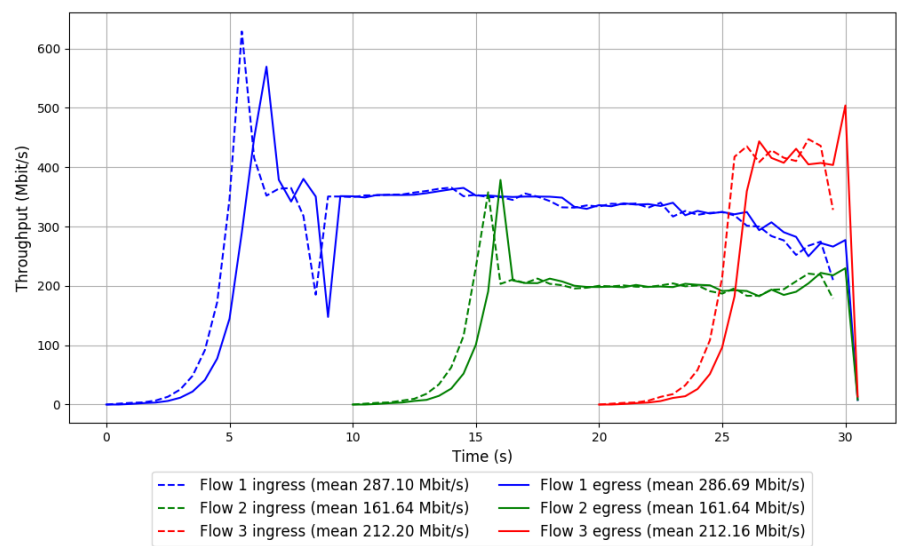


Run 7: Statistics of PCC-Vivace

Start at: 2018-06-06 08:52:06
End at: 2018-06-06 08:52:36
Local clock offset: 0.027 ms
Remote clock offset: -0.109 ms

Below is generated by plot.py at 2018-06-06 12:21:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 464.20 Mbit/s
95th percentile per-packet one-way delay: 178.058 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 286.69 Mbit/s
95th percentile per-packet one-way delay: 143.265 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 161.64 Mbit/s
95th percentile per-packet one-way delay: 136.392 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 212.16 Mbit/s
95th percentile per-packet one-way delay: 206.580 ms
Loss rate: 0.04%

Run 7: Report of PCC-Vivace — Data Link

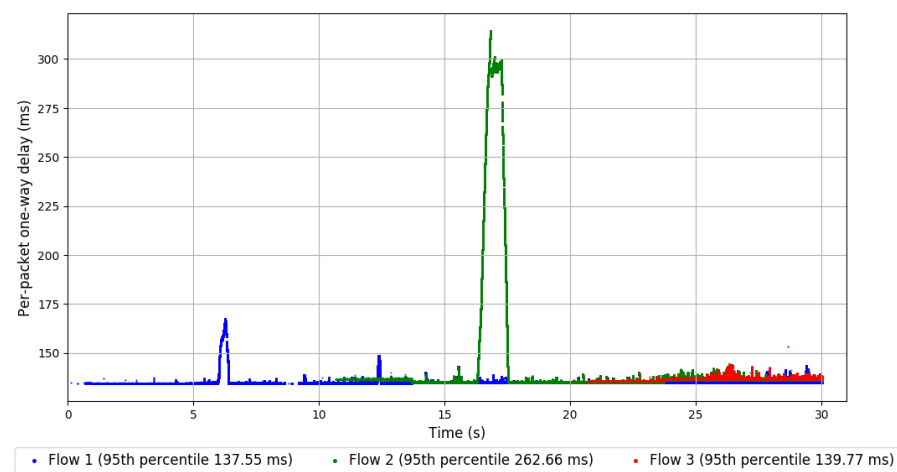
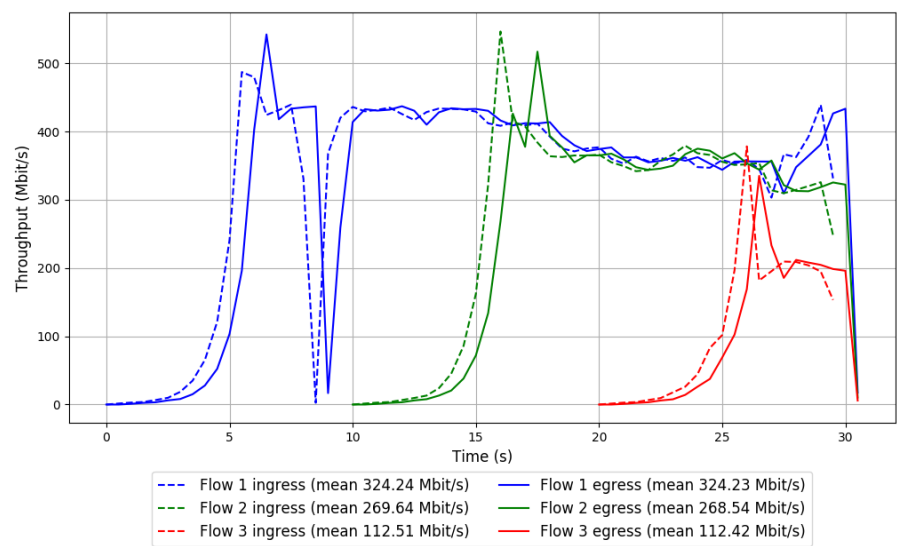


Run 8: Statistics of PCC-Vivace

Start at: 2018-06-06 09:16:48
End at: 2018-06-06 09:17:18
Local clock offset: 0.018 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2018-06-06 12:22:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 539.93 Mbit/s
95th percentile per-packet one-way delay: 142.505 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 324.23 Mbit/s
95th percentile per-packet one-way delay: 137.552 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 268.54 Mbit/s
95th percentile per-packet one-way delay: 262.662 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 112.42 Mbit/s
95th percentile per-packet one-way delay: 139.773 ms
Loss rate: 0.11%

Run 8: Report of PCC-Vivace — Data Link

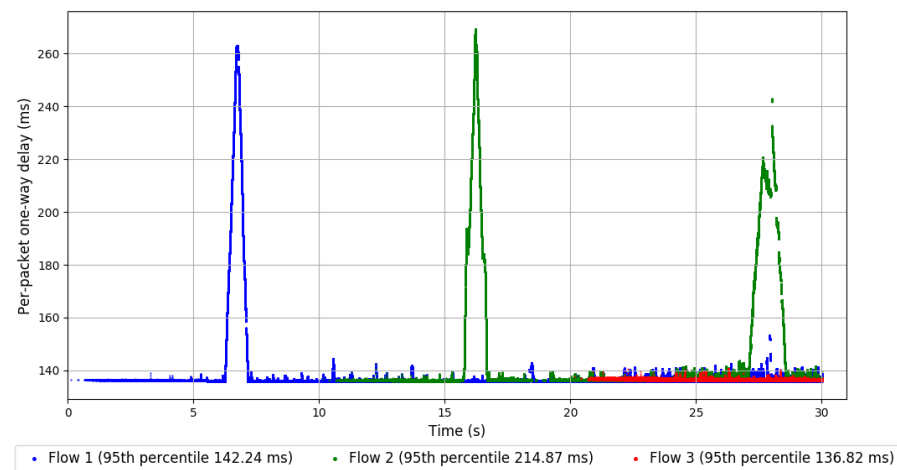
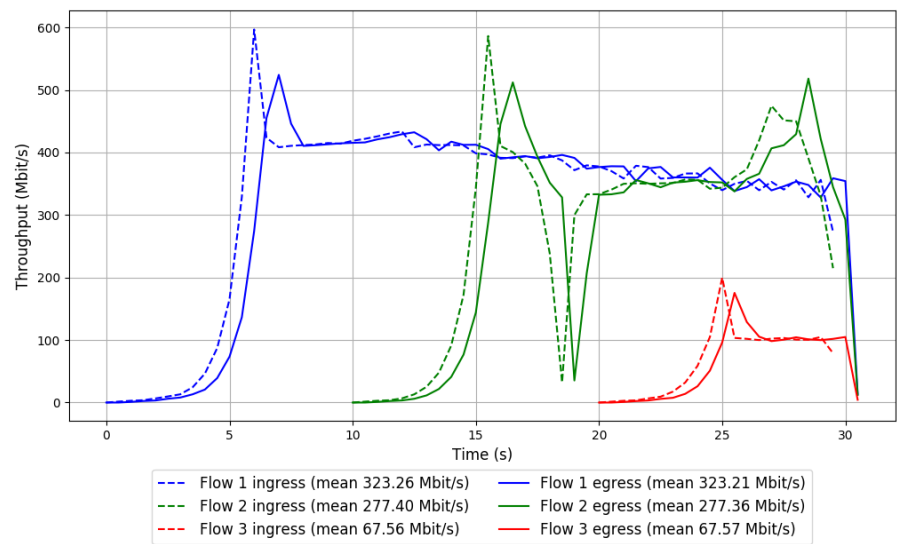


Run 9: Statistics of PCC-Vivace

Start at: 2018-06-06 09:41:36
End at: 2018-06-06 09:42:06
Local clock offset: -0.329 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2018-06-06 12:23:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 529.93 Mbit/s
95th percentile per-packet one-way delay: 196.606 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 323.21 Mbit/s
95th percentile per-packet one-way delay: 142.240 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 277.36 Mbit/s
95th percentile per-packet one-way delay: 214.865 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 67.57 Mbit/s
95th percentile per-packet one-way delay: 136.821 ms
Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link

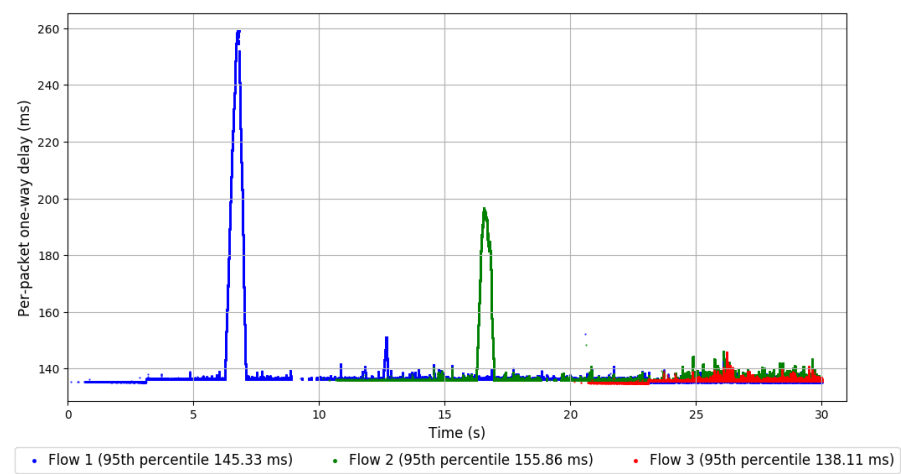
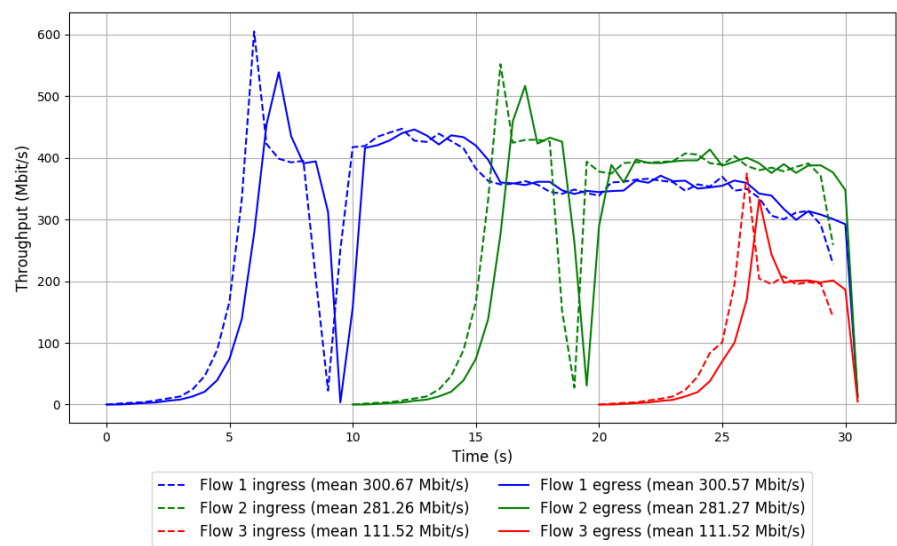


Run 10: Statistics of PCC-Vivace

Start at: 2018-06-06 10:06:39
End at: 2018-06-06 10:07:09
Local clock offset: -0.161 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-06-06 12:23:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 524.38 Mbit/s
95th percentile per-packet one-way delay: 145.099 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 300.57 Mbit/s
95th percentile per-packet one-way delay: 145.333 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 281.27 Mbit/s
95th percentile per-packet one-way delay: 155.861 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 111.52 Mbit/s
95th percentile per-packet one-way delay: 138.114 ms
Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link

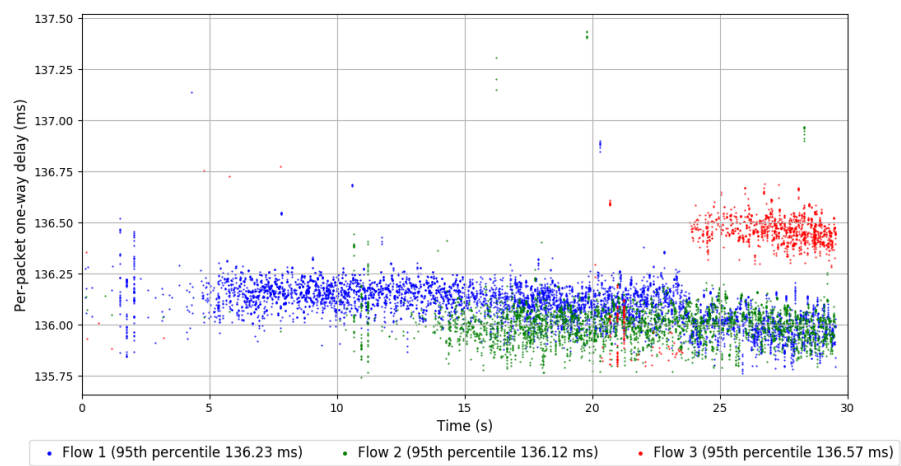
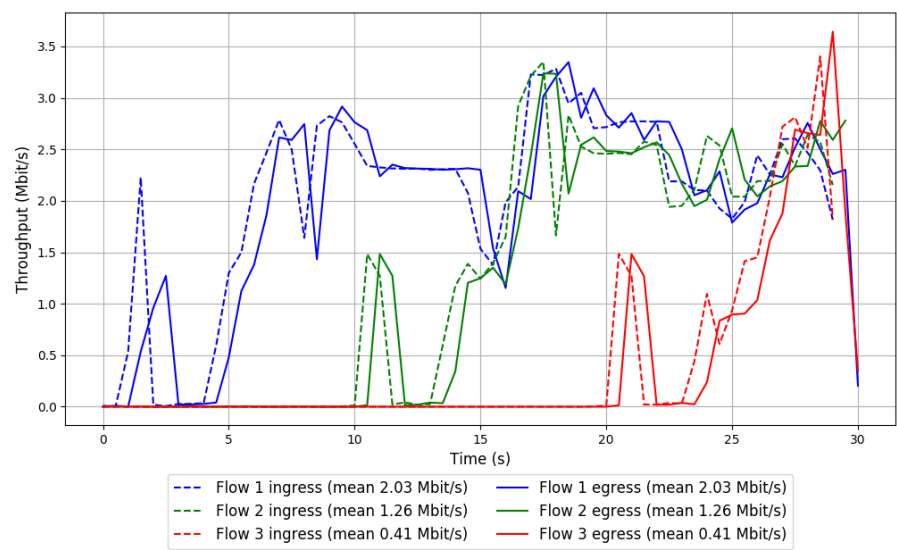


```
Run 1: Statistics of WebRTC media

Start at: 2018-06-06 06:21:38
End at: 2018-06-06 06:22:08
Local clock offset: -0.149 ms
Remote clock offset: 0.246 ms

# Below is generated by plot.py at 2018-06-06 12:23:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.69 Mbit/s
95th percentile per-packet one-way delay: 136.463 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 136.231 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.26 Mbit/s
95th percentile per-packet one-way delay: 136.125 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 136.574 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-06-06 06:46:26

End at: 2018-06-06 06:46:56

Local clock offset: -0.073 ms

Remote clock offset: 0.326 ms

Below is generated by plot.py at 2018-06-06 12:23:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.27 Mbit/s

95th percentile per-packet one-way delay: 136.617 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.83 Mbit/s

95th percentile per-packet one-way delay: 136.644 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.10 Mbit/s

95th percentile per-packet one-way delay: 135.199 ms

Loss rate: 0.00%

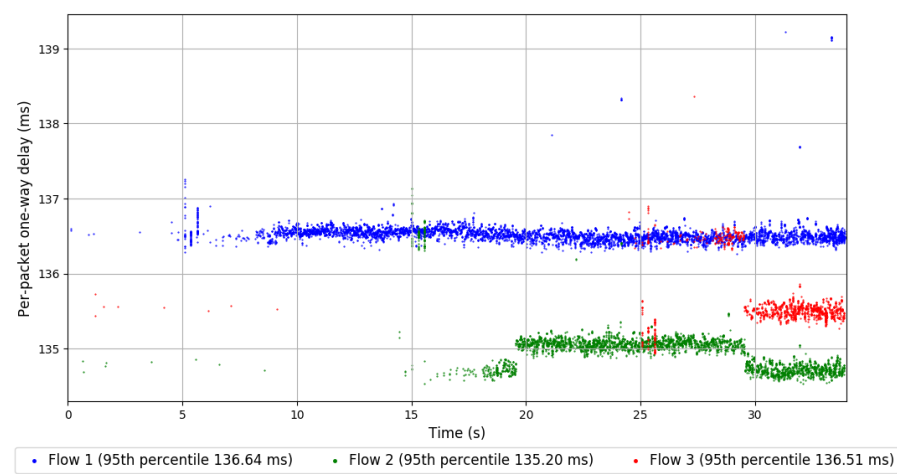
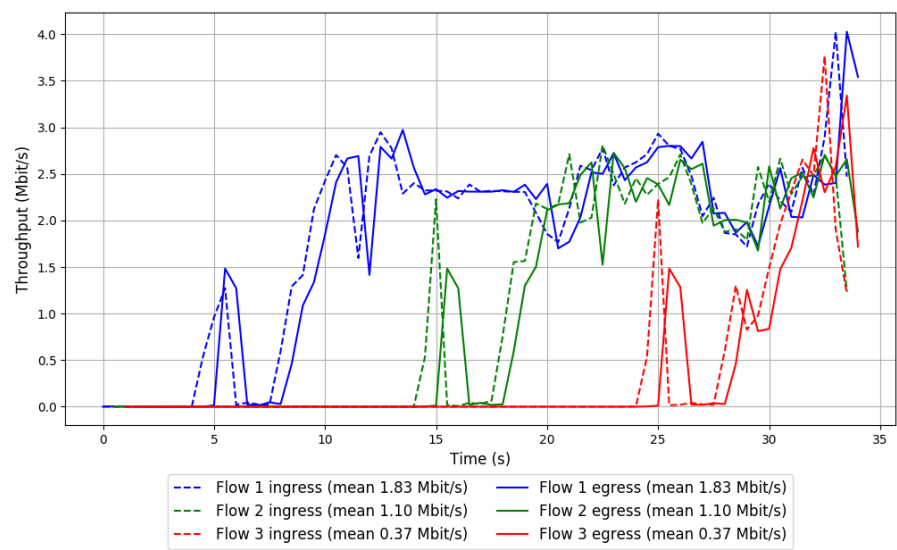
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.510 ms

Loss rate: 0.01%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-06-06 07:11:08

End at: 2018-06-06 07:11:38

Local clock offset: -0.308 ms

Remote clock offset: 0.365 ms

Below is generated by plot.py at 2018-06-06 12:23:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.22 Mbit/s

95th percentile per-packet one-way delay: 136.915 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.80 Mbit/s

95th percentile per-packet one-way delay: 136.912 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.09 Mbit/s

95th percentile per-packet one-way delay: 136.933 ms

Loss rate: 0.00%

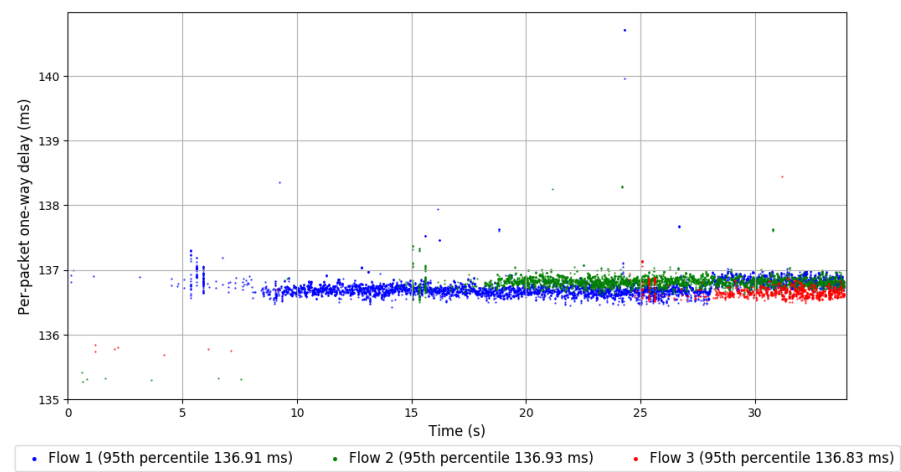
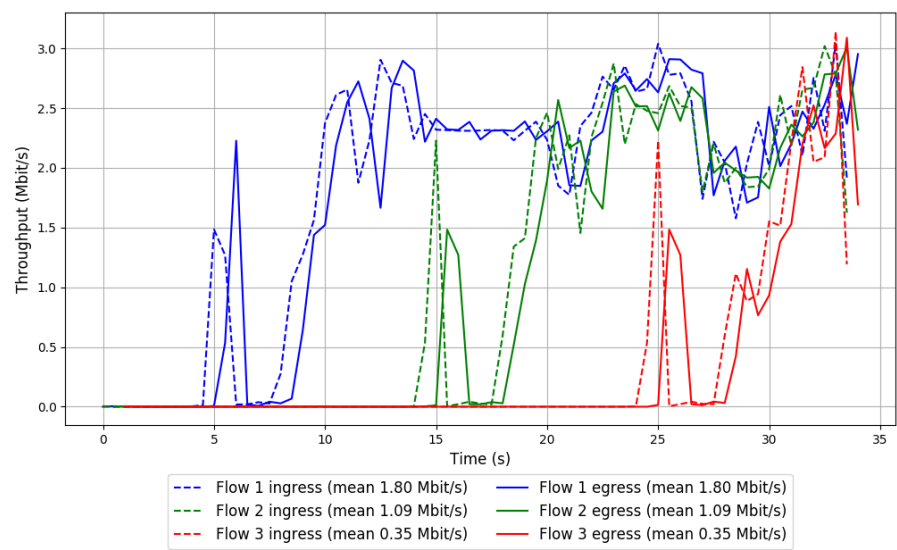
-- Flow 3:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 136.826 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-06-06 07:35:54

End at: 2018-06-06 07:36:24

Local clock offset: -0.167 ms

Remote clock offset: 0.421 ms

Below is generated by plot.py at 2018-06-06 12:23:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.20 Mbit/s

95th percentile per-packet one-way delay: 136.365 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.80 Mbit/s

95th percentile per-packet one-way delay: 136.301 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 136.393 ms

Loss rate: 0.00%

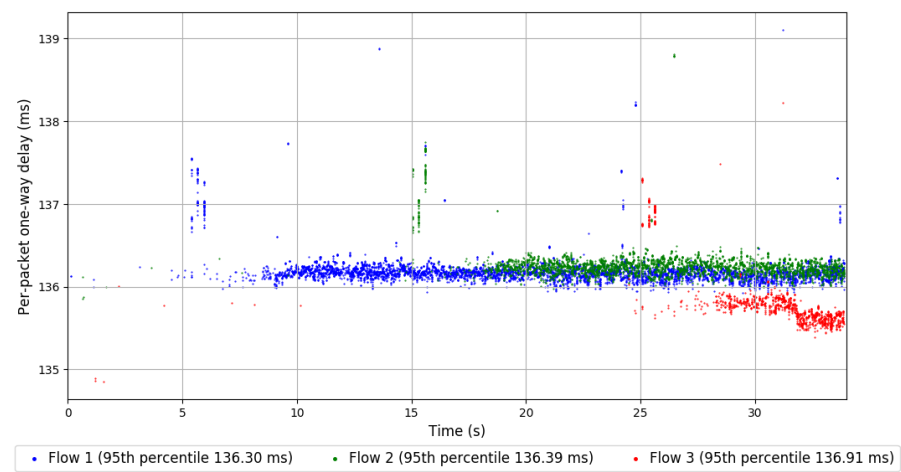
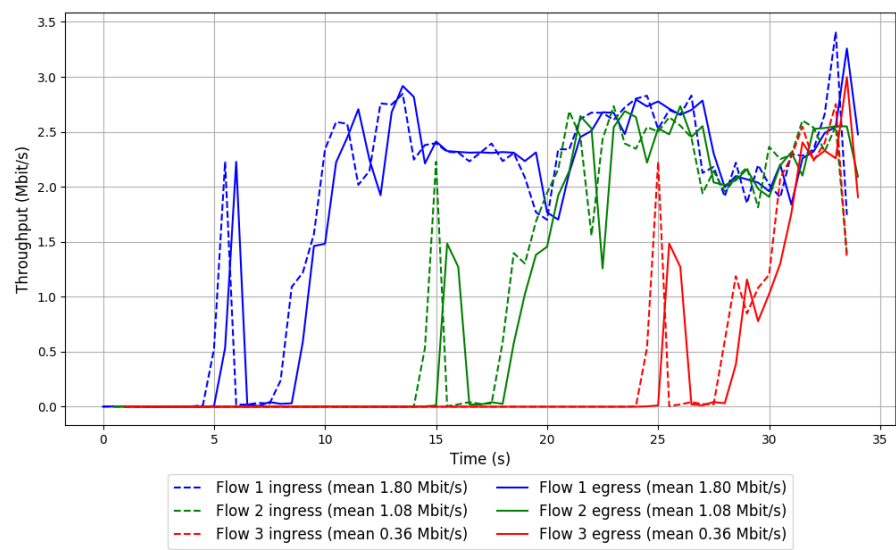
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 136.905 ms

Loss rate: 0.01%

Run 4: Report of WebRTC media — Data Link

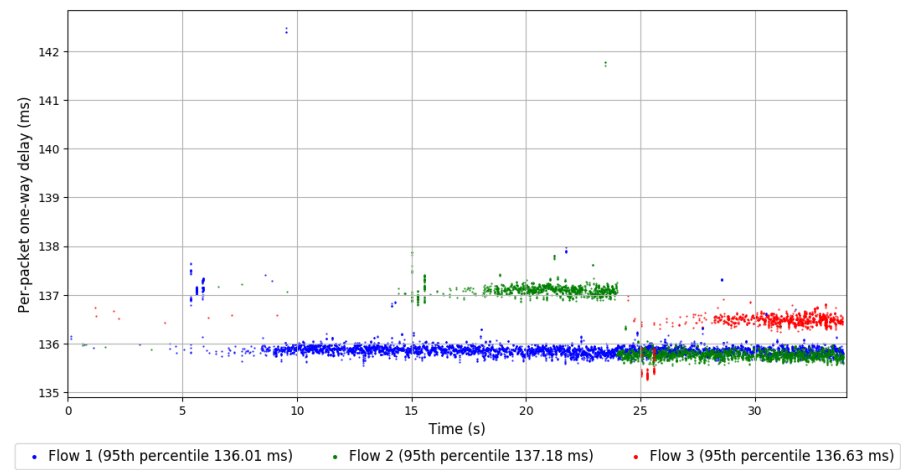
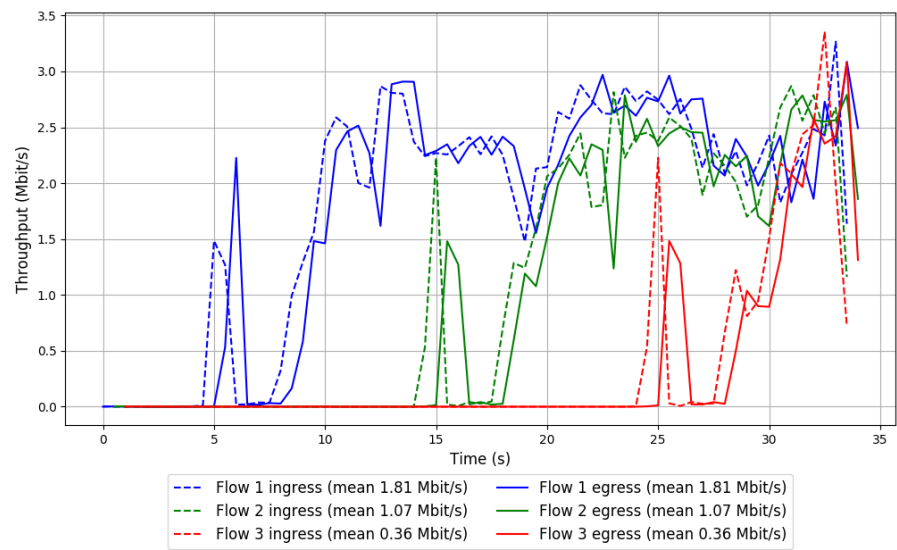


Run 5: Statistics of WebRTC media

Start at: 2018-06-06 08:00:32
End at: 2018-06-06 08:01:02
Local clock offset: -0.277 ms
Remote clock offset: -0.109 ms

Below is generated by plot.py at 2018-06-06 12:23:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.21 Mbit/s
95th percentile per-packet one-way delay: 137.123 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.81 Mbit/s
95th percentile per-packet one-way delay: 136.013 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.07 Mbit/s
95th percentile per-packet one-way delay: 137.183 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 136.626 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

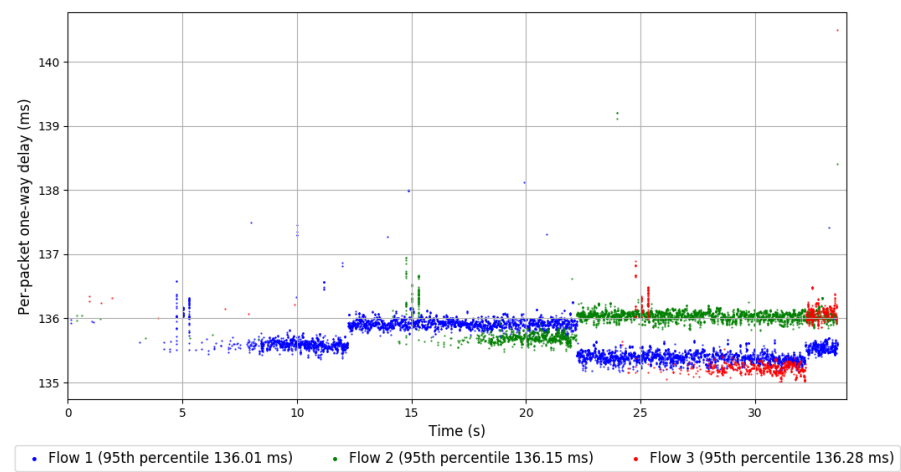
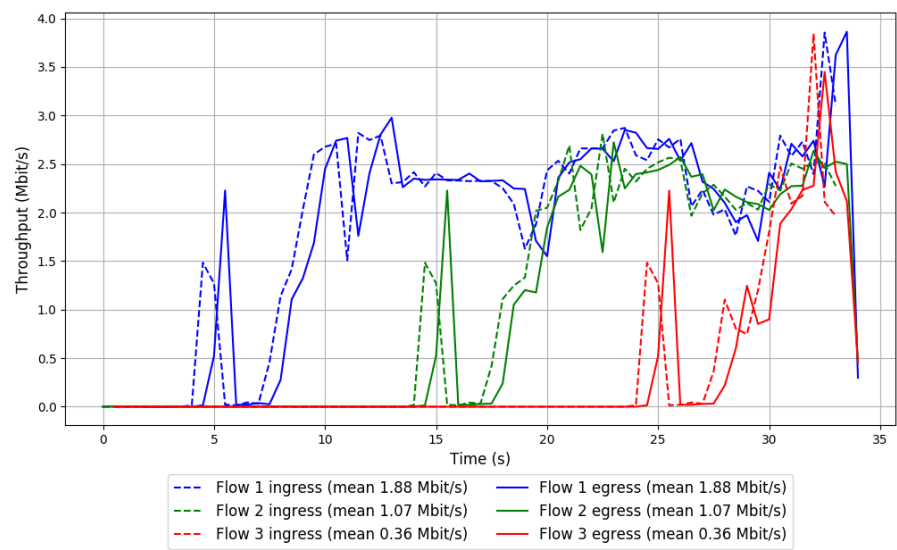


Run 6: Statistics of WebRTC media

Start at: 2018-06-06 08:25:43
End at: 2018-06-06 08:26:13
Local clock offset: -0.27 ms
Remote clock offset: -0.497 ms

Below is generated by plot.py at 2018-06-06 12:23:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.29 Mbit/s
95th percentile per-packet one-way delay: 136.124 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 136.008 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.07 Mbit/s
95th percentile per-packet one-way delay: 136.146 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 136.285 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

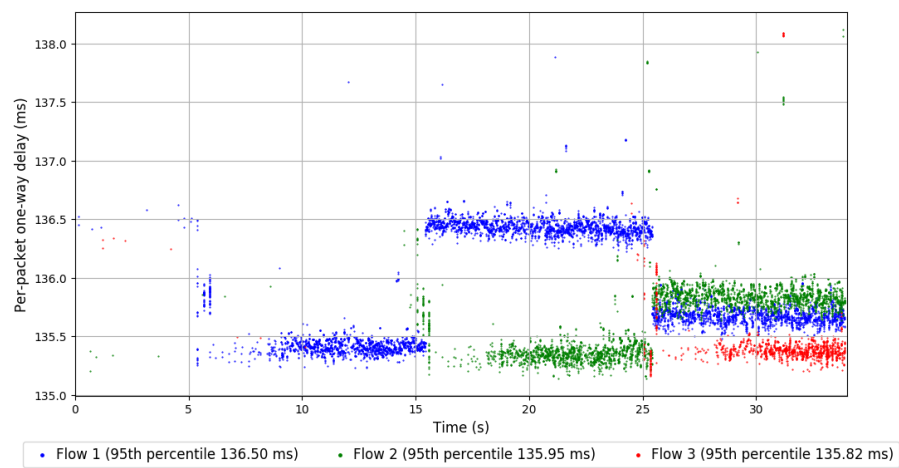
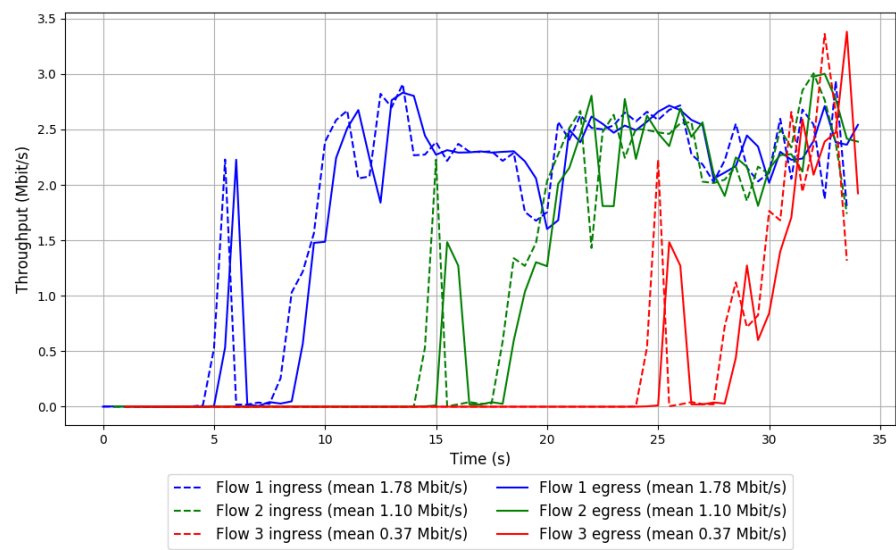


Run 7: Statistics of WebRTC media

Start at: 2018-06-06 08:50:50
End at: 2018-06-06 08:51:20
Local clock offset: 0.187 ms
Remote clock offset: -0.143 ms

Below is generated by plot.py at 2018-06-06 12:23:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.22 Mbit/s
95th percentile per-packet one-way delay: 136.484 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.78 Mbit/s
95th percentile per-packet one-way delay: 136.505 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.10 Mbit/s
95th percentile per-packet one-way delay: 135.951 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 135.822 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

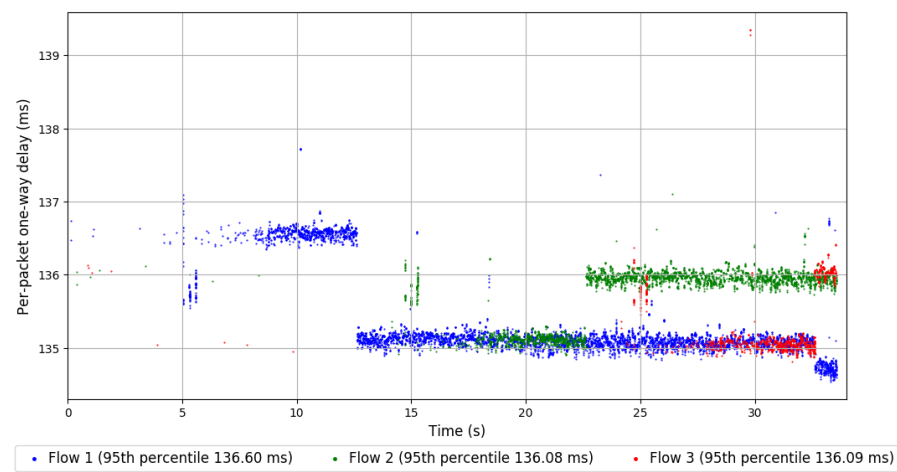
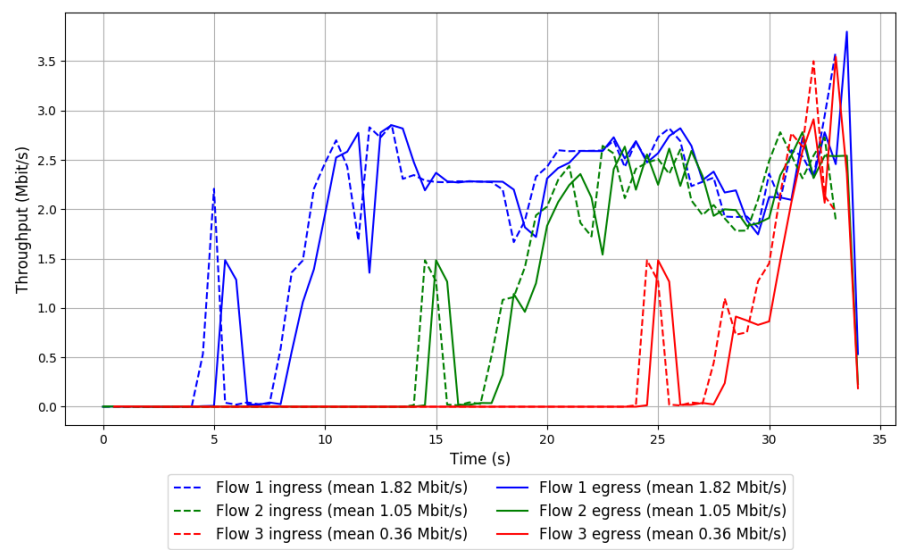


Run 8: Statistics of WebRTC media

Start at: 2018-06-06 09:15:33
End at: 2018-06-06 09:16:03
Local clock offset: -0.049 ms
Remote clock offset: -0.038 ms

Below is generated by plot.py at 2018-06-06 12:23:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.22 Mbit/s
95th percentile per-packet one-way delay: 136.570 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 136.601 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.05 Mbit/s
95th percentile per-packet one-way delay: 136.079 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 136.088 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

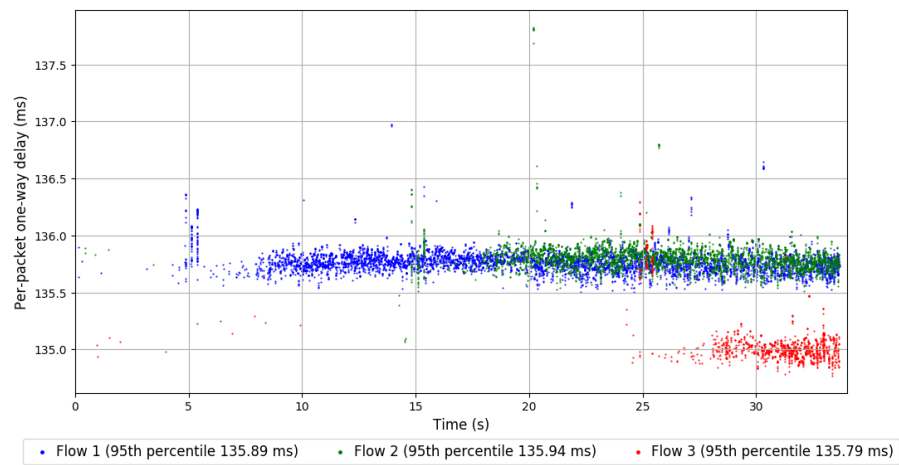
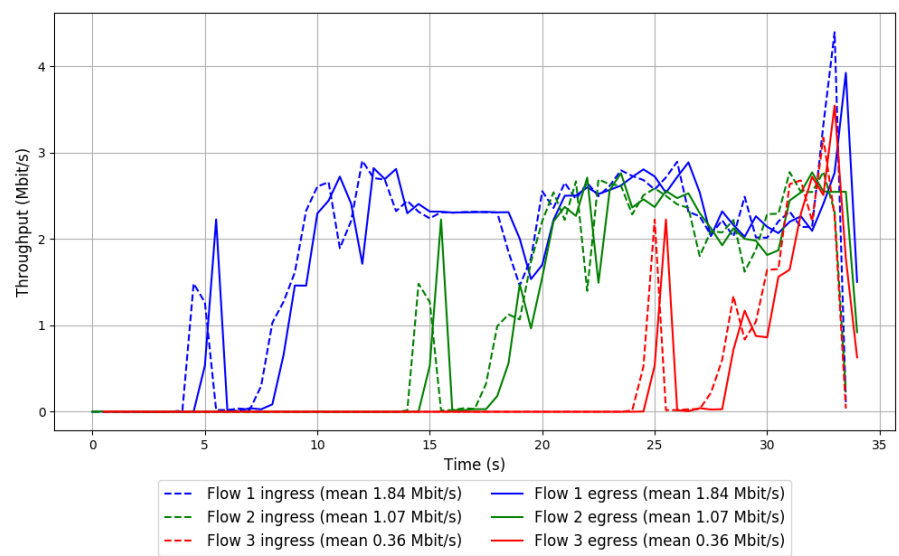


Run 9: Statistics of WebRTC media

Start at: 2018-06-06 09:40:21
End at: 2018-06-06 09:40:51
Local clock offset: -0.133 ms
Remote clock offset: -0.437 ms

Below is generated by plot.py at 2018-06-06 12:23:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.25 Mbit/s
95th percentile per-packet one-way delay: 135.911 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.84 Mbit/s
95th percentile per-packet one-way delay: 135.886 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.07 Mbit/s
95th percentile per-packet one-way delay: 135.940 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 135.793 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-06 10:05:23

End at: 2018-06-06 10:05:53

Local clock offset: -0.238 ms

Remote clock offset: 0.381 ms

Below is generated by plot.py at 2018-06-06 12:23:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.12 Mbit/s

95th percentile per-packet one-way delay: 136.512 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 136.511 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.03 Mbit/s

95th percentile per-packet one-way delay: 136.393 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 136.788 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

