

Pantheon Report

Generated at 2018-05-23 05:30:06 (UTC).

Data path: GCE Iowa Ethernet (*local*) → GCE Tokyo 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.

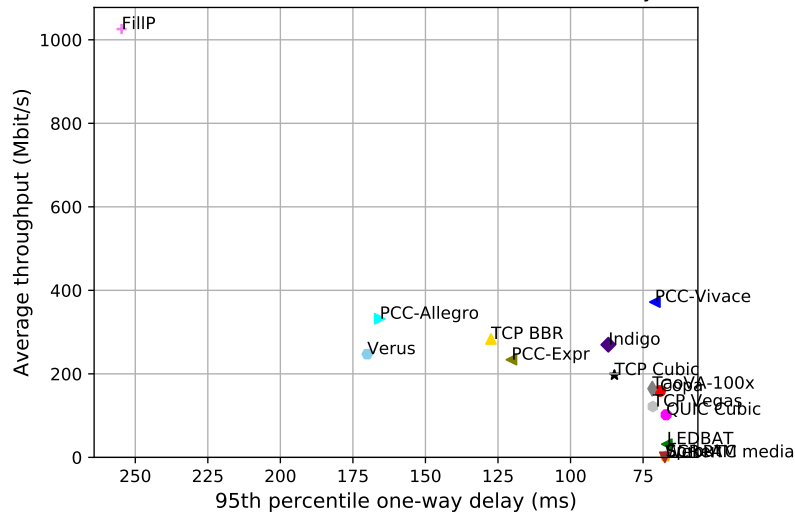
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

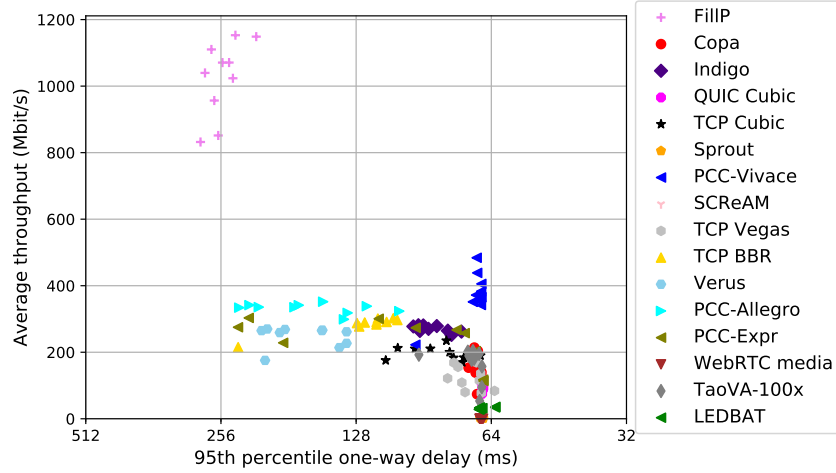
Git summary:

```
branch: master @ 2d1d4407e851ba626e5ca4626a306105793df686
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



test from GCE Iowa Ethernet to GCE Tokyo Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	150.88	141.08	116.50	121.97	127.49	138.86	0.09	0.13	0.33
Copa	10	85.50	75.87	68.87	68.86	70.88	68.42	0.01	0.02	0.00
TCP Cubic	10	132.14	81.37	32.72	82.99	91.23	84.16	0.01	0.02	0.22
FillP	10	535.09	494.13	489.32	257.87	249.94	184.26	0.95	1.38	0.95
Indigo	10	147.58	133.20	105.07	83.18	86.05	93.29	0.01	0.02	0.05
LEDBAT	10	20.37	13.39	6.99	66.85	66.79	66.28	0.00	0.00	0.00
PCC-Allegro	10	280.78	65.48	23.19	165.53	165.41	143.53	0.24	0.23	0.46
PCC-Expr	10	156.24	96.47	41.14	118.39	119.46	114.65	0.46	0.60	0.81
QUIC Cubic	10	54.47	50.02	44.36	66.03	66.13	65.74	0.00	0.00	0.01
SCReAM	10	0.22	0.22	0.22	66.54	66.06	66.05	0.00	0.00	0.03
Sprout	10	1.36	1.04	0.98	67.27	66.69	66.70	0.00	0.00	0.00
TaoVA-100x	10	100.11	99.91	52.73	70.92	74.53	71.78	0.02	0.01	0.04
TCP Vegas	10	65.49	66.89	35.29	70.15	70.80	69.22	0.00	0.01	0.16
Verus	10	140.06	127.17	75.57	152.87	176.08	179.27	0.20	0.36	0.86
PCC-Vivace	10	236.70	166.58	74.25	70.81	72.57	78.26	0.01	0.01	0.01
WebRTC media	10	0.05	0.05	0.05	67.75	67.63	67.40	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-05-22 23:48:53

End at: 2018-05-22 23:49:23

Local clock offset: 0.042 ms

Remote clock offset: 0.083 ms

Below is generated by plot.py at 2018-05-23 03:34:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 301.23 Mbit/s

95th percentile per-packet one-way delay: 114.514 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 159.57 Mbit/s

95th percentile per-packet one-way delay: 110.226 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 152.44 Mbit/s

95th percentile per-packet one-way delay: 114.760 ms

Loss rate: 0.03%

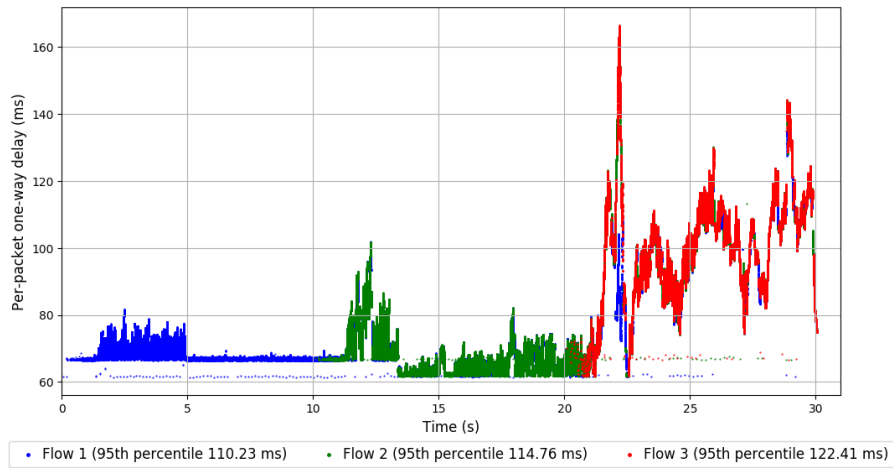
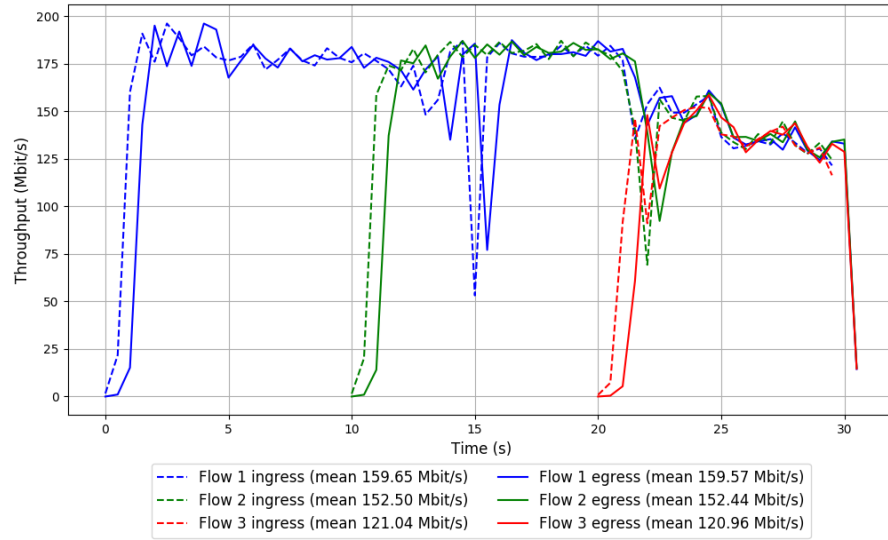
-- Flow 3:

Average throughput: 120.96 Mbit/s

95th percentile per-packet one-way delay: 122.413 ms

Loss rate: 0.08%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-05-23 00:11:07

End at: 2018-05-23 00:11:37

Local clock offset: 0.067 ms

Remote clock offset: 0.108 ms

Below is generated by plot.py at 2018-05-23 03:34:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 287.56 Mbit/s

95th percentile per-packet one-way delay: 127.410 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 150.28 Mbit/s

95th percentile per-packet one-way delay: 123.270 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 147.34 Mbit/s

95th percentile per-packet one-way delay: 127.192 ms

Loss rate: 0.00%

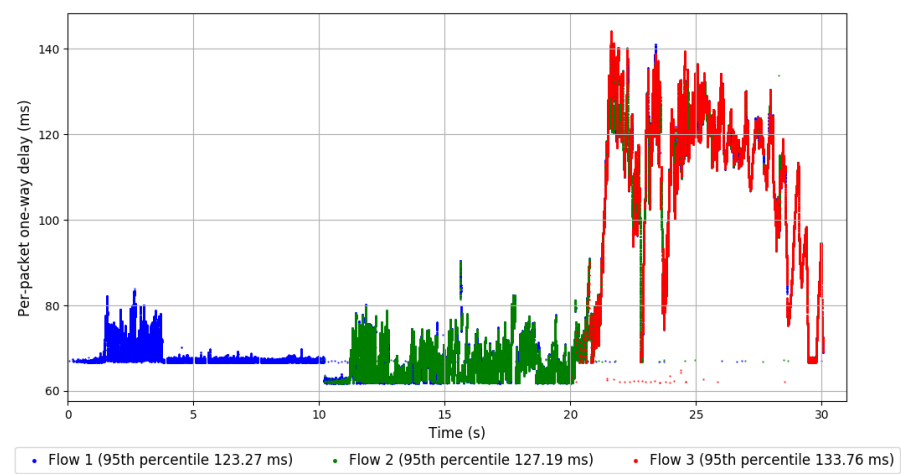
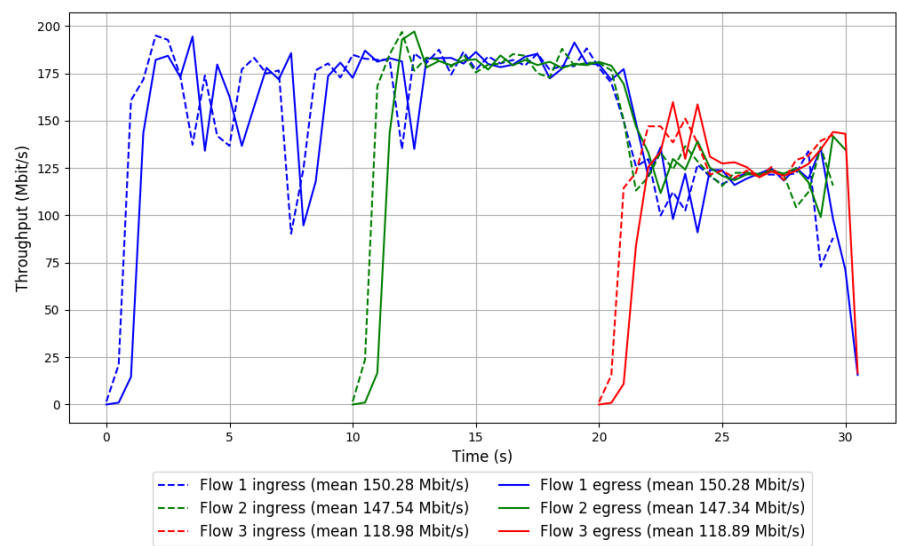
-- Flow 3:

Average throughput: 118.89 Mbit/s

95th percentile per-packet one-way delay: 133.756 ms

Loss rate: 0.09%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-05-23 00:33:33

End at: 2018-05-23 00:34:03

Local clock offset: 0.275 ms

Remote clock offset: 0.054 ms

Below is generated by plot.py at 2018-05-23 03:34:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 296.90 Mbit/s

95th percentile per-packet one-way delay: 103.597 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 158.69 Mbit/s

95th percentile per-packet one-way delay: 100.980 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 146.70 Mbit/s

95th percentile per-packet one-way delay: 104.208 ms

Loss rate: 0.07%

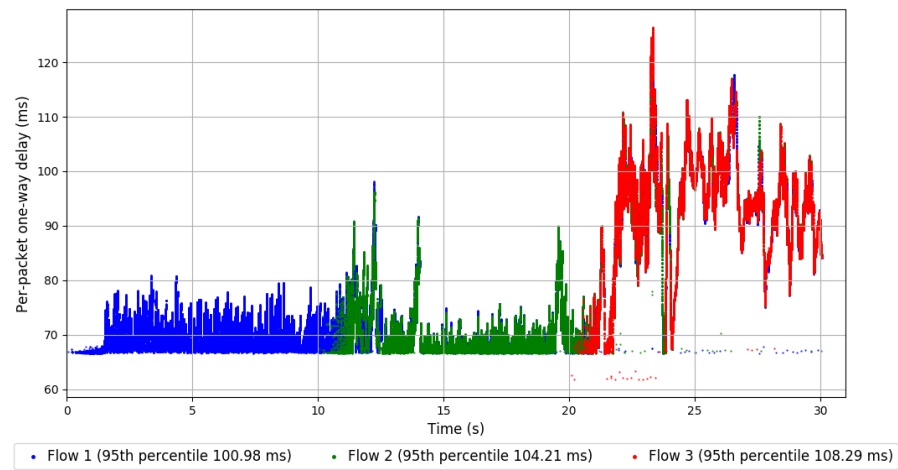
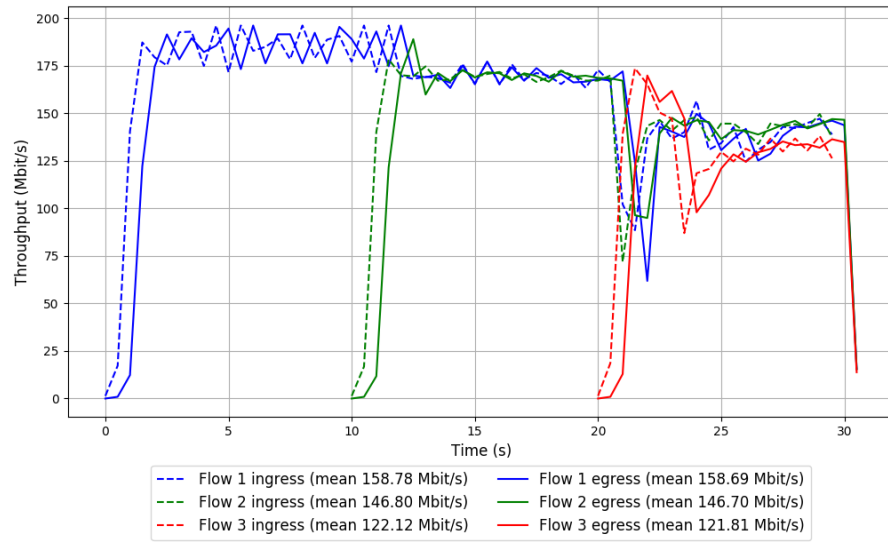
-- Flow 3:

Average throughput: 121.81 Mbit/s

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

Loss rate: 0.20%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-05-23 00:56:00

End at: 2018-05-23 00:56:30

Local clock offset: 0.213 ms

Remote clock offset: 0.178 ms

Below is generated by plot.py at 2018-05-23 03:34:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 290.77 Mbit/s

95th percentile per-packet one-way delay: 115.236 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 153.84 Mbit/s

95th percentile per-packet one-way delay: 108.495 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 146.36 Mbit/s

95th percentile per-packet one-way delay: 113.330 ms

Loss rate: 0.13%

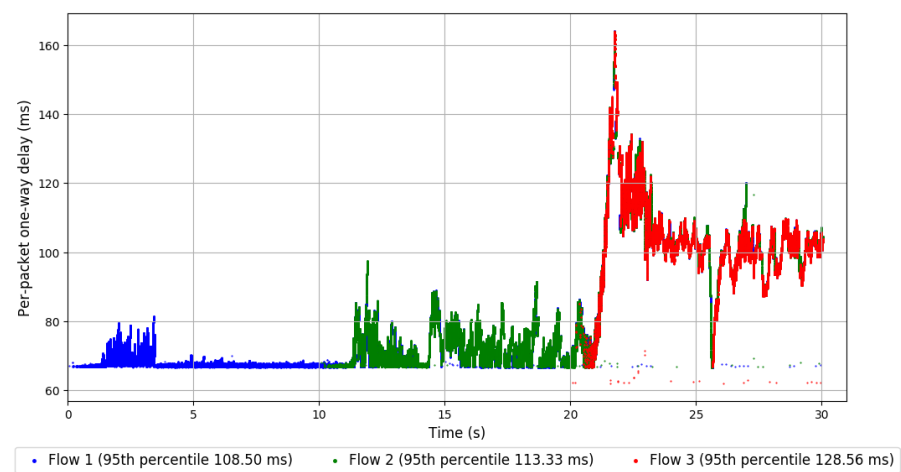
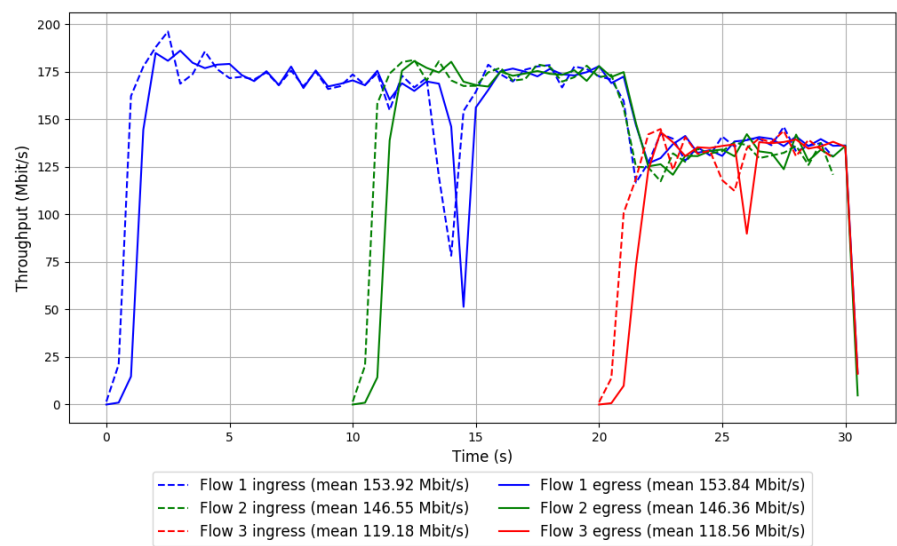
-- Flow 3:

Average throughput: 118.56 Mbit/s

95th percentile per-packet one-way delay: 128.557 ms

Loss rate: 0.28%

Run 4: Report of TCP BBR — Data Link

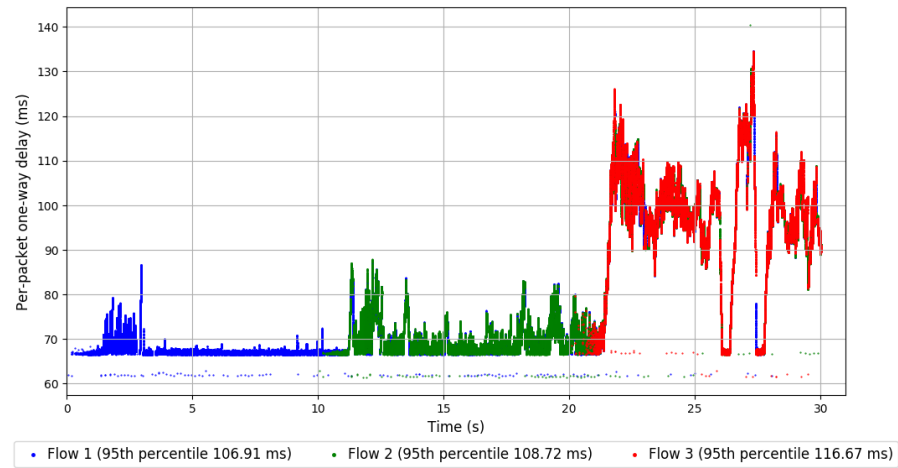
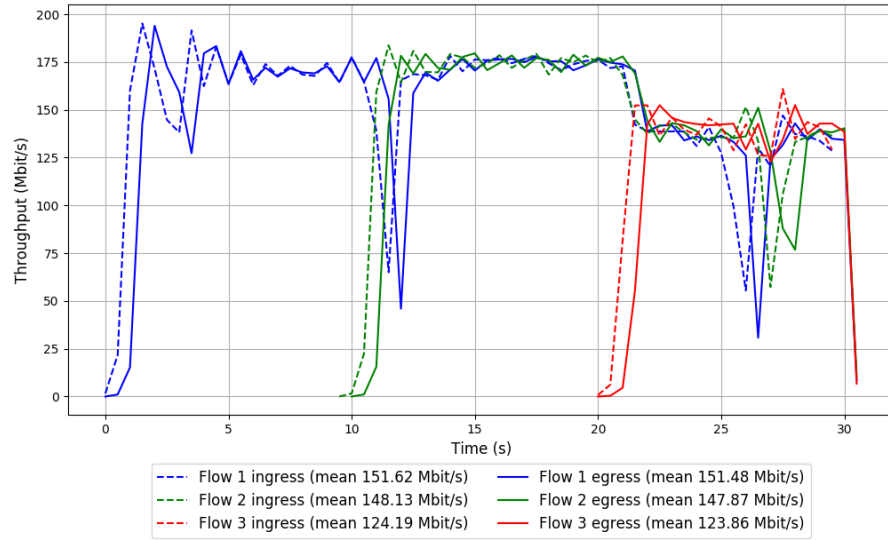


Run 5: Statistics of TCP BBR

Start at: 2018-05-23 01:18:42
End at: 2018-05-23 01:19:12
Local clock offset: -0.054 ms
Remote clock offset: -0.152 ms

Below is generated by plot.py at 2018-05-23 03:34:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 291.15 Mbit/s
95th percentile per-packet one-way delay: 109.506 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 151.48 Mbit/s
95th percentile per-packet one-way delay: 106.912 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 147.87 Mbit/s
95th percentile per-packet one-way delay: 108.723 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 123.86 Mbit/s
95th percentile per-packet one-way delay: 116.666 ms
Loss rate: 0.33%

Run 5: Report of TCP BBR — Data Link

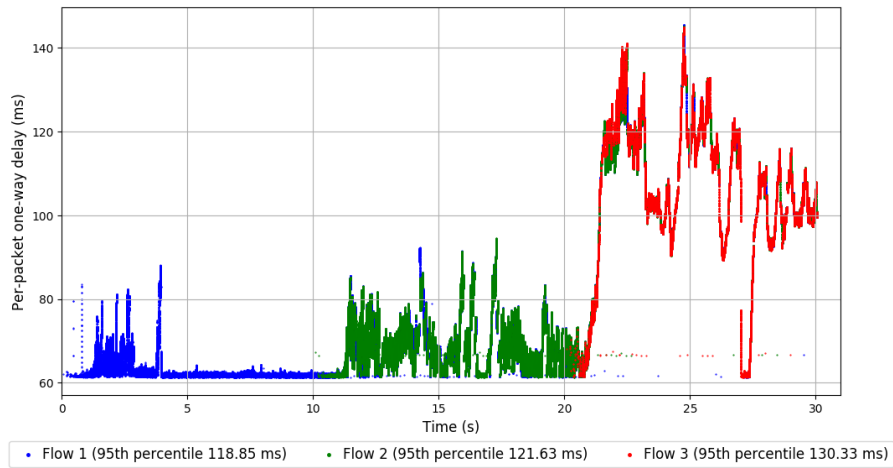
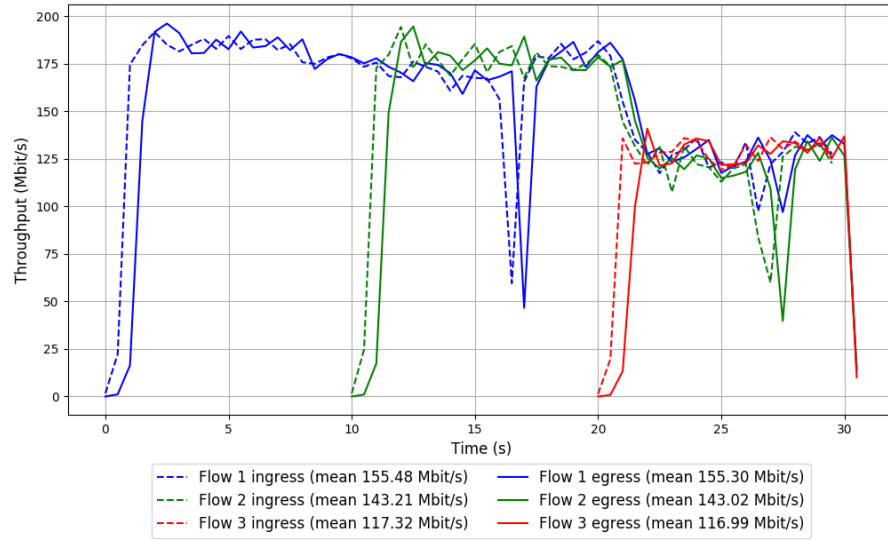


Run 6: Statistics of TCP BBR

Start at: 2018-05-23 01:41:08
End at: 2018-05-23 01:41:38
Local clock offset: 0.221 ms
Remote clock offset: -0.181 ms

Below is generated by plot.py at 2018-05-23 03:34:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 289.43 Mbit/s
95th percentile per-packet one-way delay: 122.501 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 155.30 Mbit/s
95th percentile per-packet one-way delay: 118.850 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 143.02 Mbit/s
95th percentile per-packet one-way delay: 121.631 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 116.99 Mbit/s
95th percentile per-packet one-way delay: 130.331 ms
Loss rate: 0.30%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-05-23 02:03:10

End at: 2018-05-23 02:03:40

Local clock offset: 0.154 ms

Remote clock offset: 0.239 ms

Below is generated by plot.py at 2018-05-23 03:34:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.25 Mbit/s

95th percentile per-packet one-way delay: 105.756 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 160.00 Mbit/s

95th percentile per-packet one-way delay: 102.997 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 151.35 Mbit/s

95th percentile per-packet one-way delay: 105.353 ms

Loss rate: 0.11%

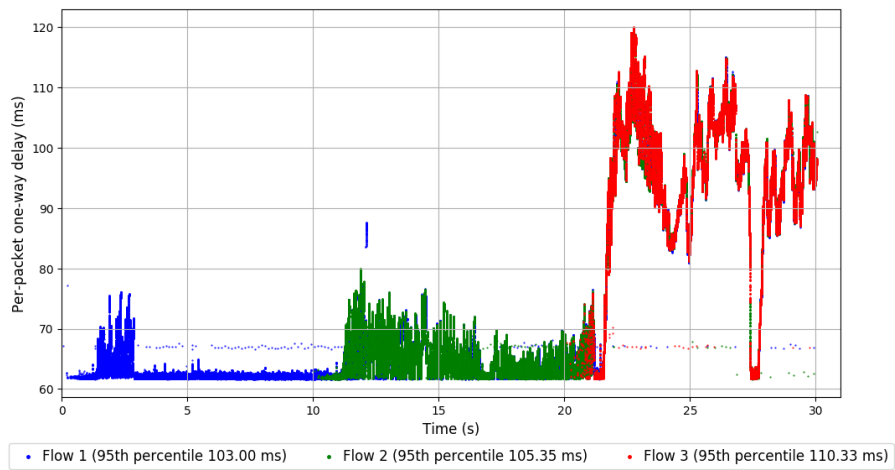
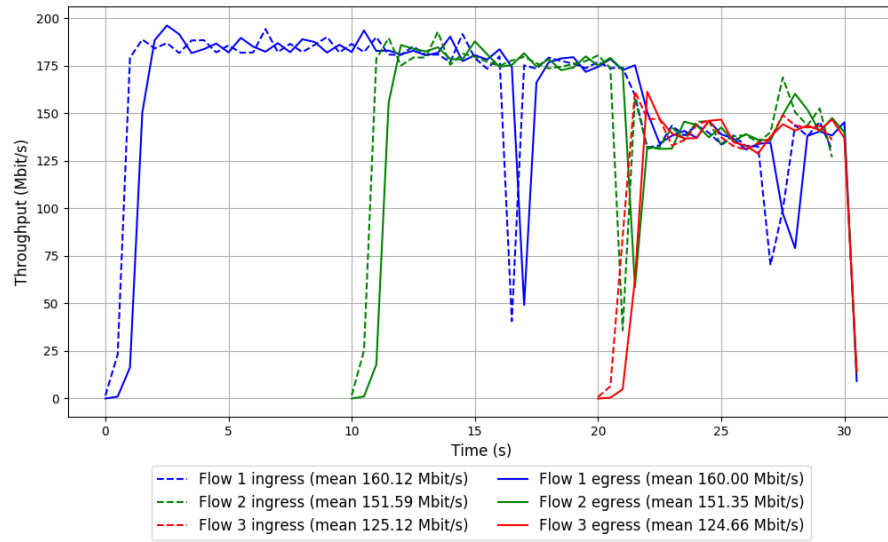
-- Flow 3:

Average throughput: 124.66 Mbit/s

95th percentile per-packet one-way delay: 110.332 ms

Loss rate: 0.38%

Run 7: Report of TCP BBR — Data Link

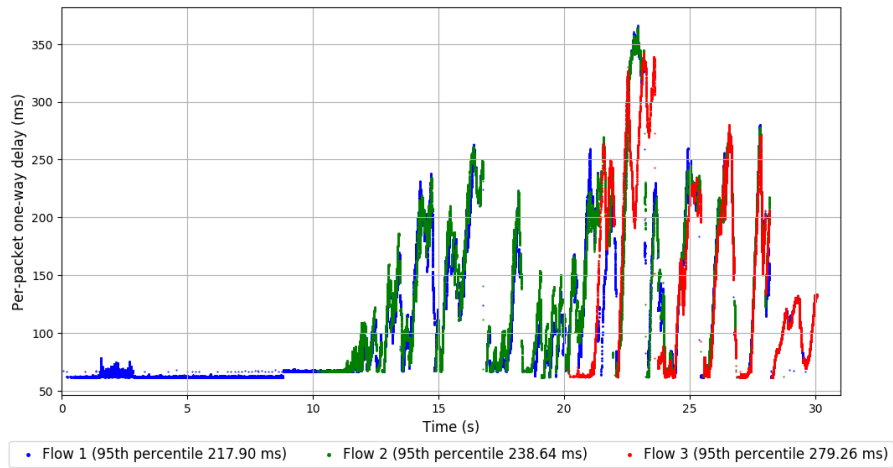
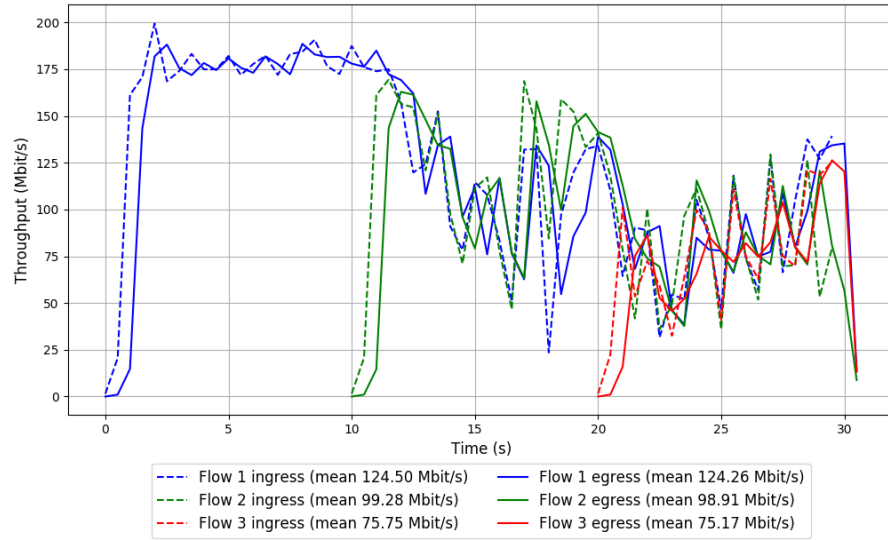


Run 8: Statistics of TCP BBR

Start at: 2018-05-23 02:25:18
End at: 2018-05-23 02:25:48
Local clock offset: -0.077 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2018-05-23 03:34:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 215.16 Mbit/s
95th percentile per-packet one-way delay: 234.400 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 124.26 Mbit/s
95th percentile per-packet one-way delay: 217.902 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 98.91 Mbit/s
95th percentile per-packet one-way delay: 238.641 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 75.17 Mbit/s
95th percentile per-packet one-way delay: 279.264 ms
Loss rate: 0.76%

Run 8: Report of TCP BBR — Data Link

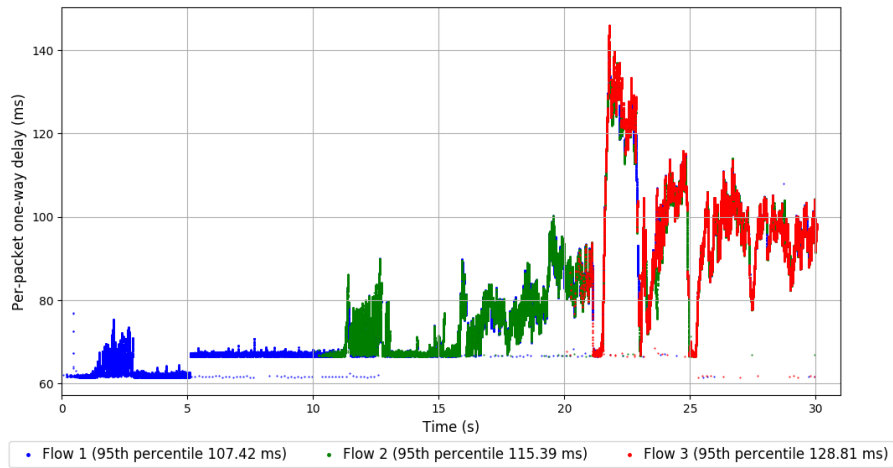
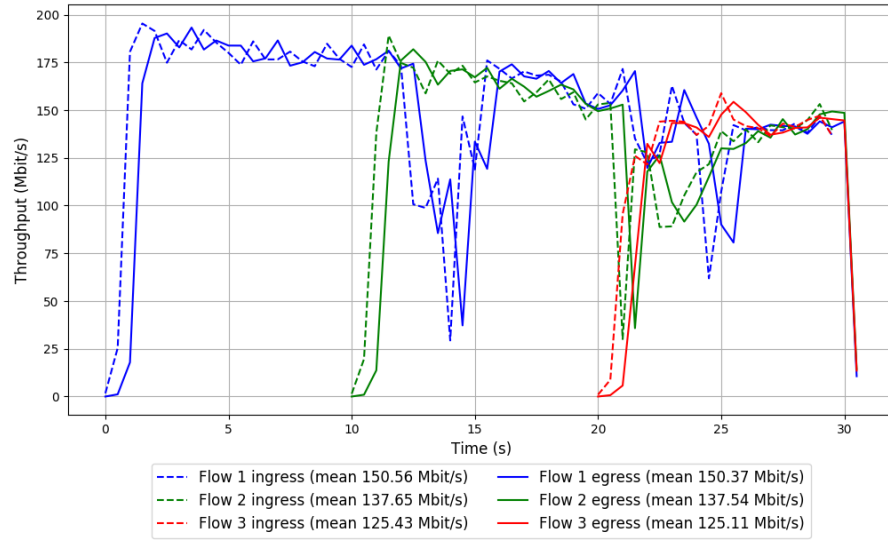


Run 9: Statistics of TCP BBR

Start at: 2018-05-23 02:47:22
End at: 2018-05-23 02:47:52
Local clock offset: 0.524 ms
Remote clock offset: -0.189 ms

Below is generated by plot.py at 2018-05-23 03:38:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 283.51 Mbit/s
95th percentile per-packet one-way delay: 115.335 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 150.37 Mbit/s
95th percentile per-packet one-way delay: 107.425 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 137.54 Mbit/s
95th percentile per-packet one-way delay: 115.393 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 125.11 Mbit/s
95th percentile per-packet one-way delay: 128.810 ms
Loss rate: 0.26%

Run 9: Report of TCP BBR — Data Link

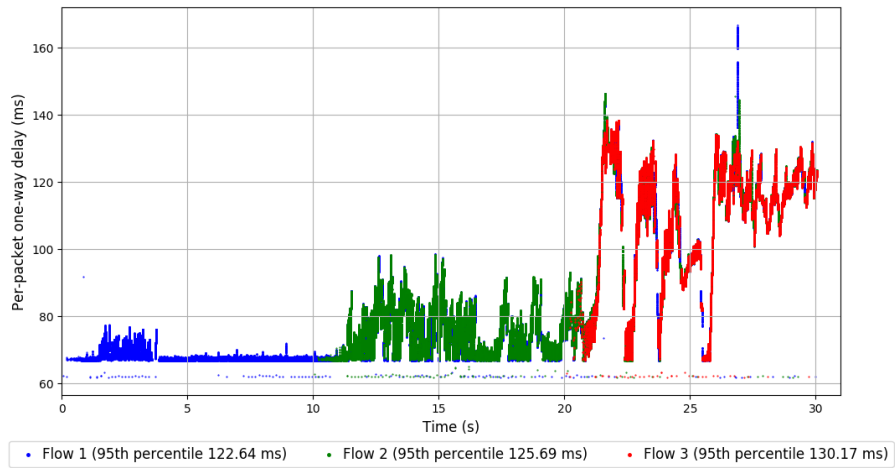
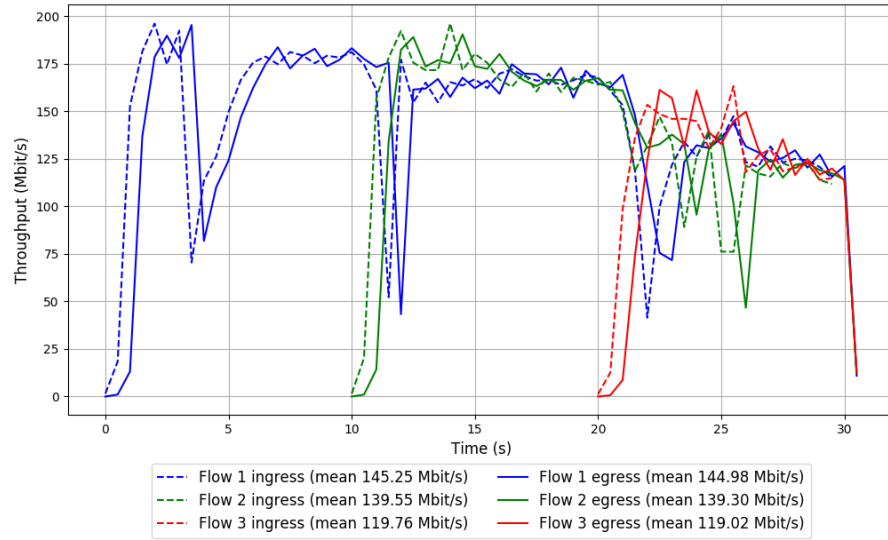


Run 10: Statistics of TCP BBR

Start at: 2018-05-23 03:09:40
End at: 2018-05-23 03:10:10
Local clock offset: 0.687 ms
Remote clock offset: -0.066 ms

Below is generated by plot.py at 2018-05-23 03:40:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 277.35 Mbit/s
95th percentile per-packet one-way delay: 125.996 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 144.98 Mbit/s
95th percentile per-packet one-way delay: 122.638 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 139.30 Mbit/s
95th percentile per-packet one-way delay: 125.688 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 119.02 Mbit/s
95th percentile per-packet one-way delay: 130.169 ms
Loss rate: 0.58%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-05-22 23:51:38

End at: 2018-05-22 23:52:08

Local clock offset: -0.004 ms

Remote clock offset: 0.185 ms

Below is generated by plot.py at 2018-05-23 03:40:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 130.80 Mbit/s

95th percentile per-packet one-way delay: 67.371 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 58.57 Mbit/s

95th percentile per-packet one-way delay: 67.290 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 90.17 Mbit/s

95th percentile per-packet one-way delay: 67.435 ms

Loss rate: 0.08%

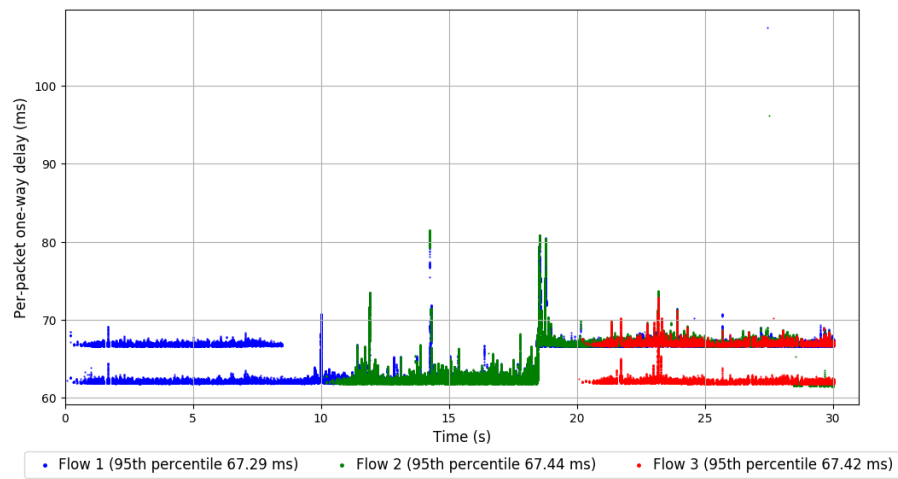
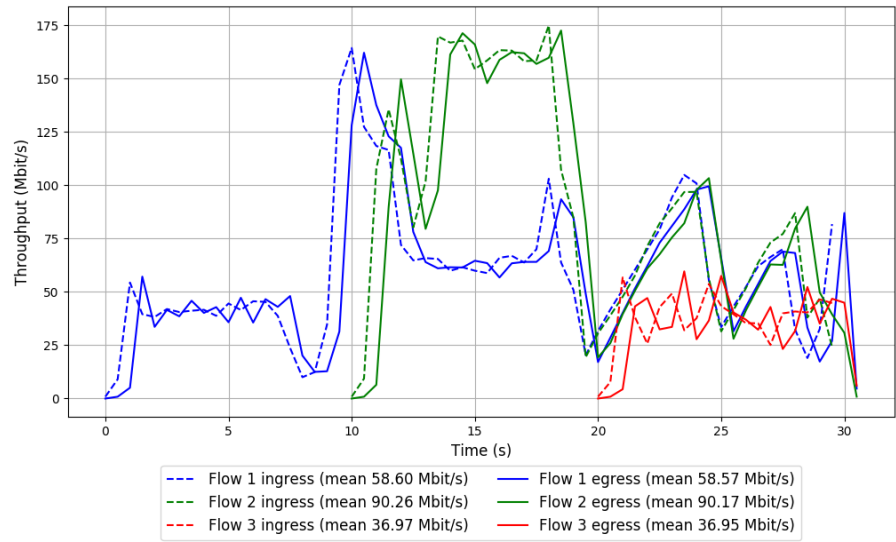
-- Flow 3:

Average throughput: 36.95 Mbit/s

95th percentile per-packet one-way delay: 67.423 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-05-23 00:13:46

End at: 2018-05-23 00:14:16

Local clock offset: 0.09 ms

Remote clock offset: 0.219 ms

Below is generated by plot.py at 2018-05-23 03:42:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 197.11 Mbit/s

95th percentile per-packet one-way delay: 70.204 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 91.91 Mbit/s

95th percentile per-packet one-way delay: 70.275 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 115.41 Mbit/s

95th percentile per-packet one-way delay: 69.274 ms

Loss rate: 0.04%

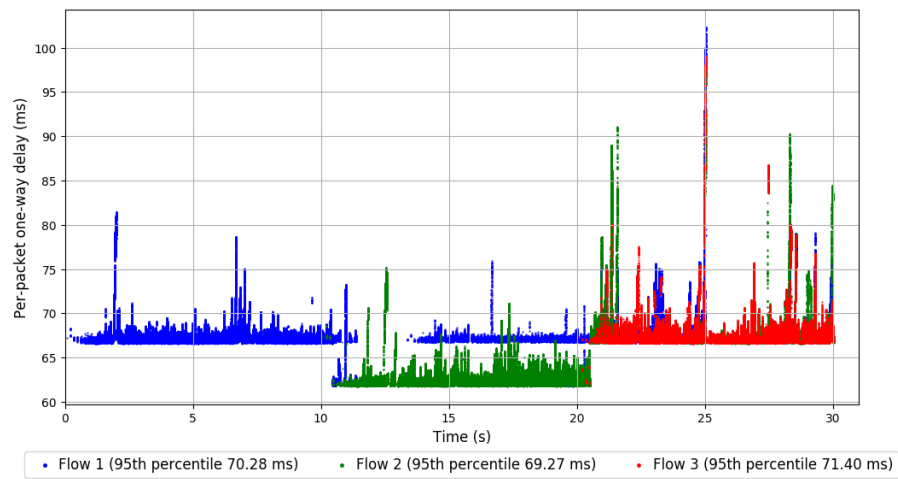
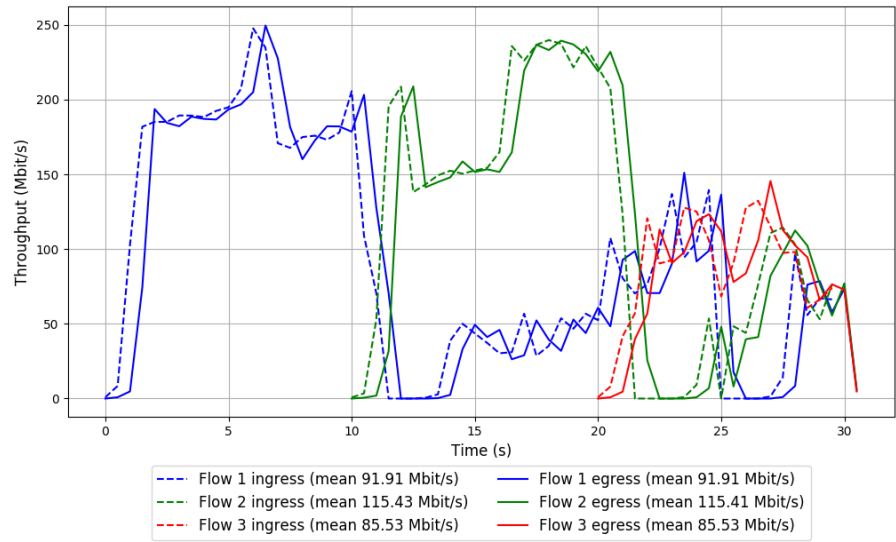
-- Flow 3:

Average throughput: 85.53 Mbit/s

95th percentile per-packet one-way delay: 71.396 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-05-23 00:36:20

End at: 2018-05-23 00:36:50

Local clock offset: 0.28 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2018-05-23 03:43:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 214.03 Mbit/s

95th percentile per-packet one-way delay: 69.823 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 125.85 Mbit/s

95th percentile per-packet one-way delay: 69.820 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 109.87 Mbit/s

95th percentile per-packet one-way delay: 69.972 ms

Loss rate: 0.00%

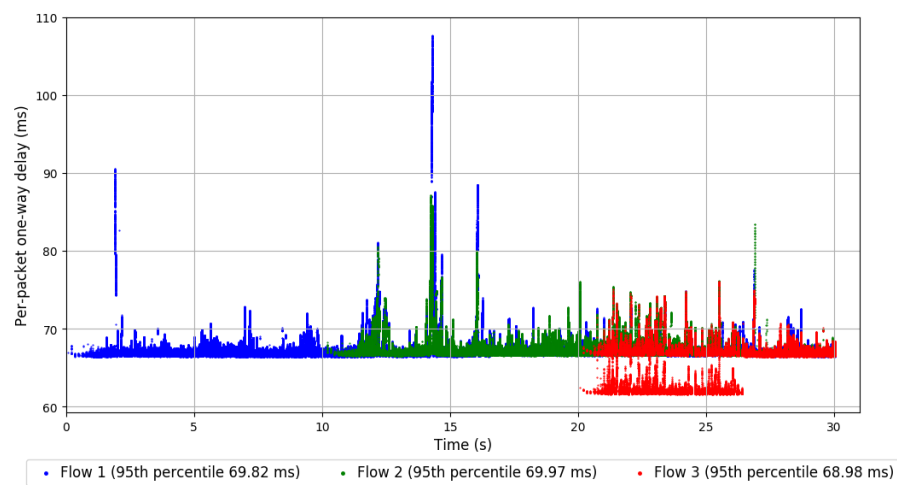
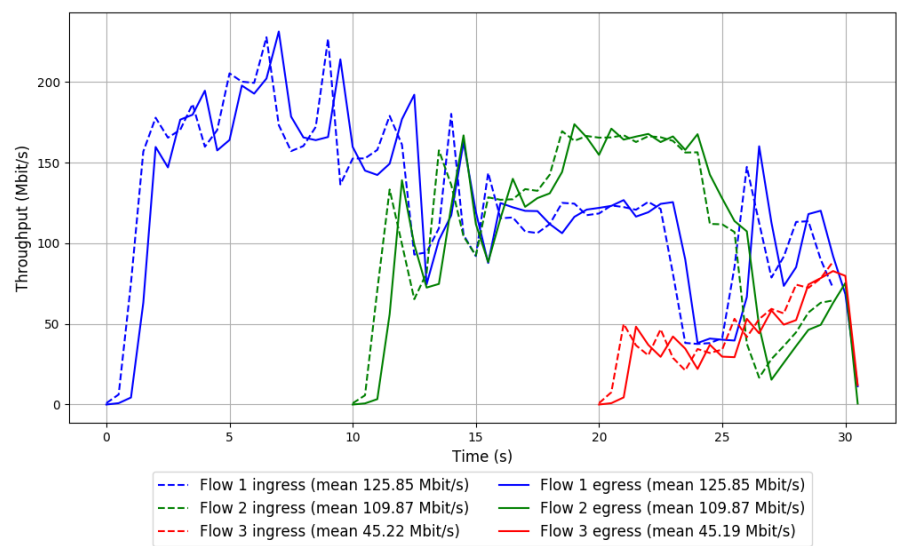
-- Flow 3:

Average throughput: 45.19 Mbit/s

95th percentile per-packet one-way delay: 68.978 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-05-23 00:58:45

End at: 2018-05-23 00:59:15

Local clock offset: 0.121 ms

Remote clock offset: 0.143 ms

Below is generated by plot.py at 2018-05-23 03:43:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 203.99 Mbit/s

95th percentile per-packet one-way delay: 68.577 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 105.94 Mbit/s

95th percentile per-packet one-way delay: 67.850 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 127.08 Mbit/s

95th percentile per-packet one-way delay: 69.213 ms

Loss rate: 0.00%

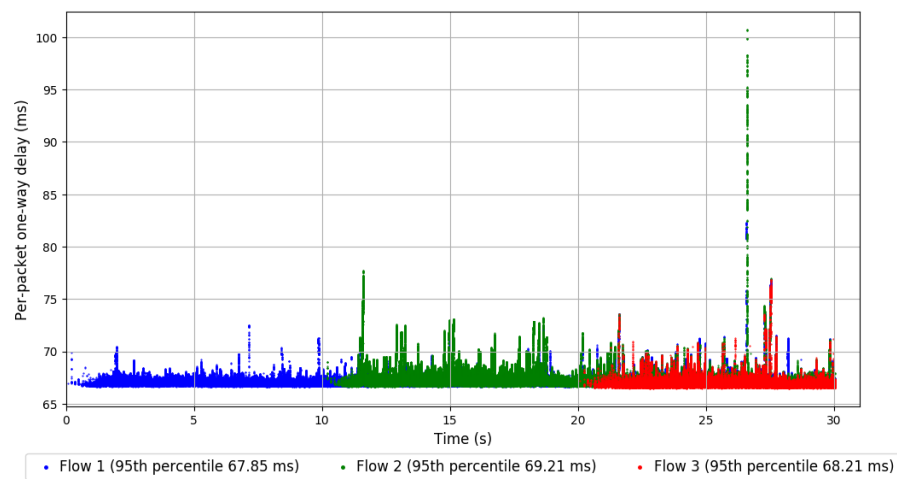
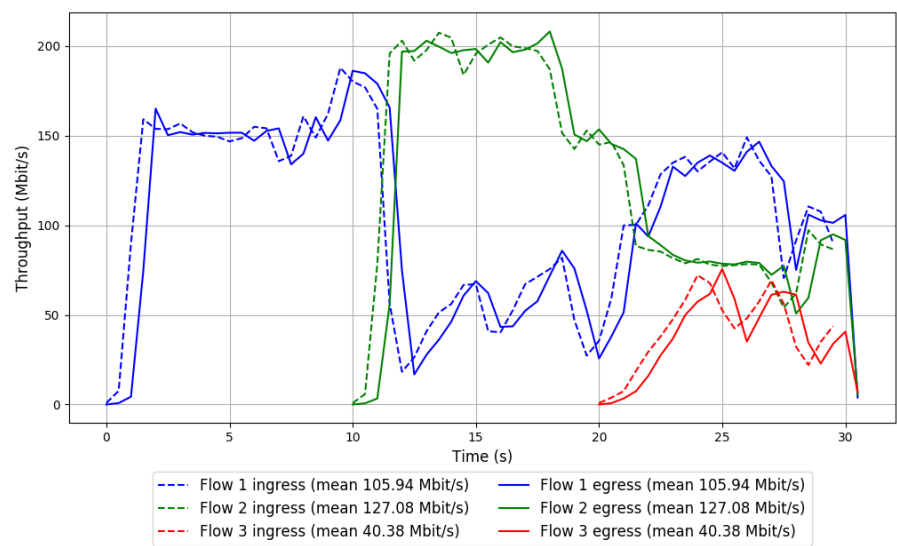
-- Flow 3:

Average throughput: 40.38 Mbit/s

95th percentile per-packet one-way delay: 68.209 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link

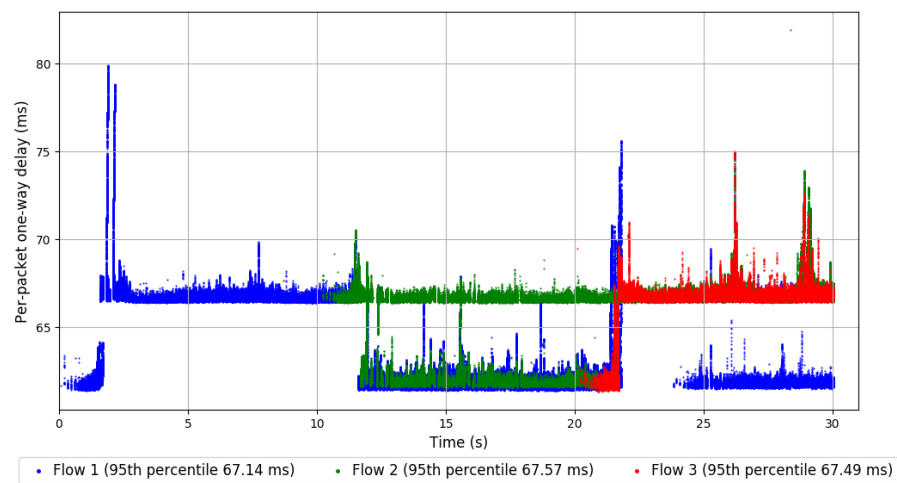
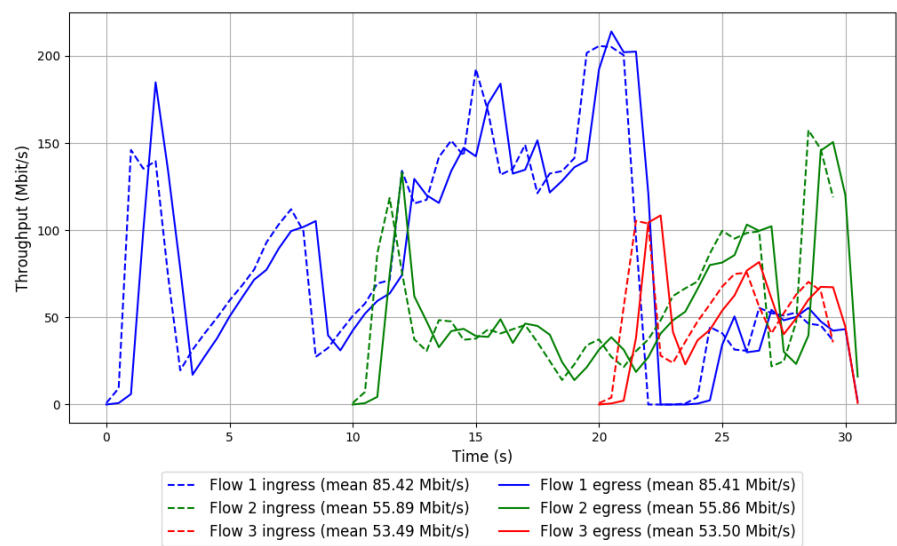


Run 5: Statistics of Copa

Start at: 2018-05-23 01:21:25
End at: 2018-05-23 01:21:55
Local clock offset: -0.032 ms
Remote clock offset: -0.092 ms

Below is generated by plot.py at 2018-05-23 03:43:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 140.34 Mbit/s
95th percentile per-packet one-way delay: 67.330 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 85.41 Mbit/s
95th percentile per-packet one-way delay: 67.138 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 55.86 Mbit/s
95th percentile per-packet one-way delay: 67.571 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 53.50 Mbit/s
95th percentile per-packet one-way delay: 67.493 ms
Loss rate: 0.04%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-05-23 01:43:54

End at: 2018-05-23 01:44:24

Local clock offset: 0.2 ms

Remote clock offset: -0.19 ms

Below is generated by plot.py at 2018-05-23 03:43:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 144.66 Mbit/s

95th percentile per-packet one-way delay: 68.747 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.85 Mbit/s

95th percentile per-packet one-way delay: 68.704 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 42.33 Mbit/s

95th percentile per-packet one-way delay: 73.990 ms

Loss rate: 0.00%

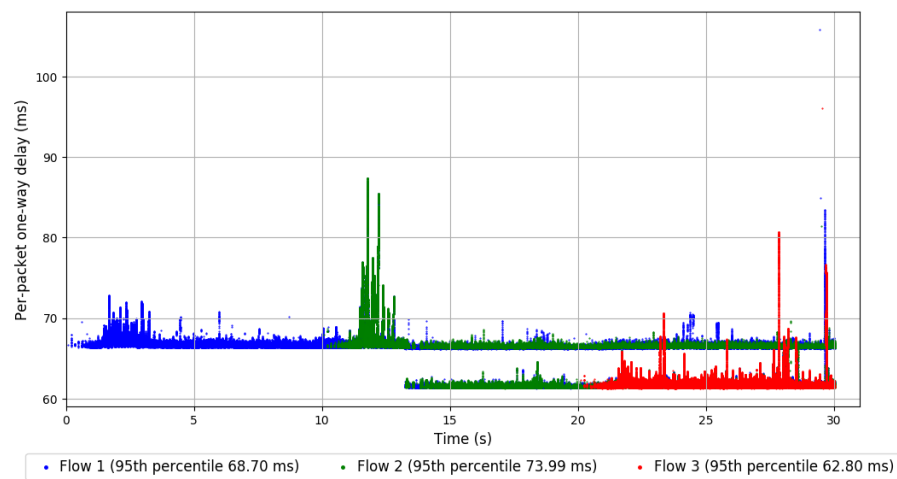
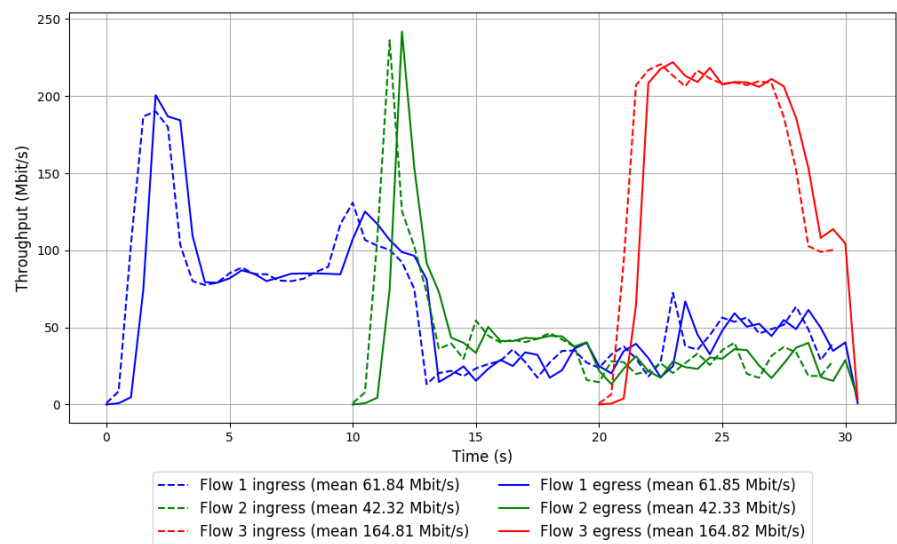
-- Flow 3:

Average throughput: 164.82 Mbit/s

95th percentile per-packet one-way delay: 62.801 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link

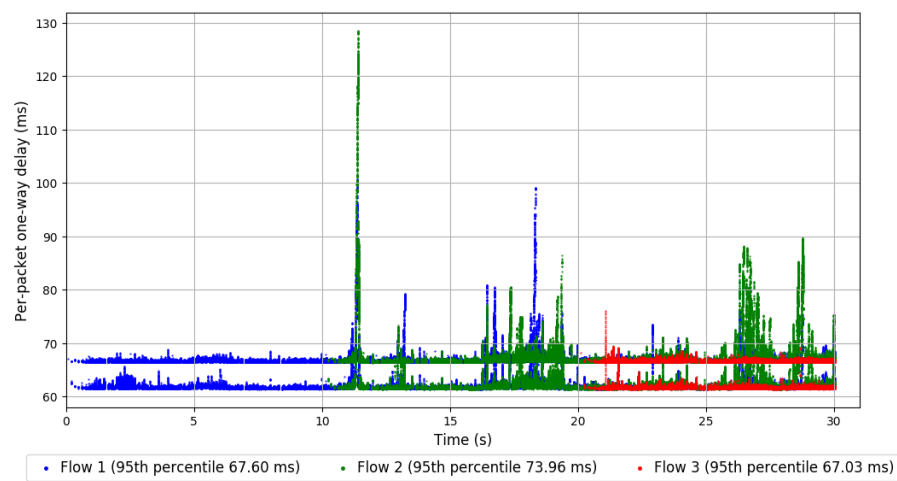
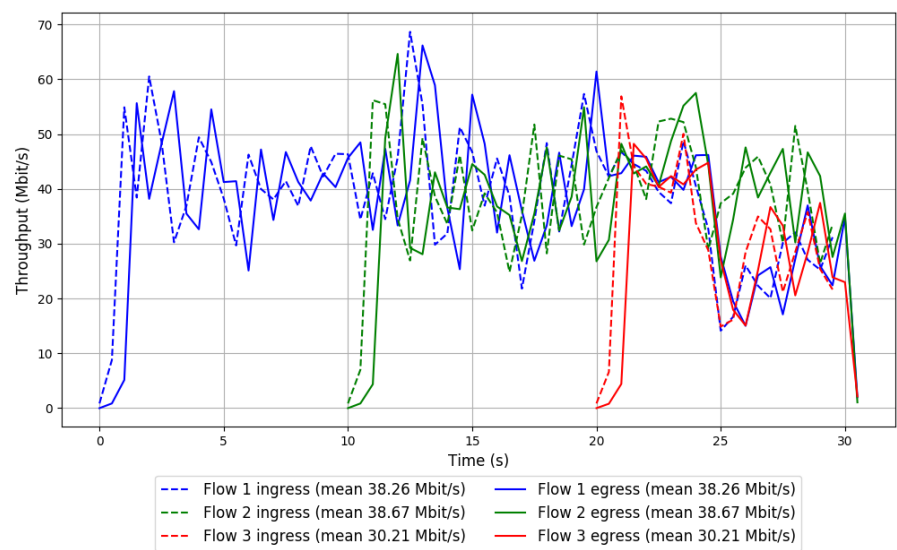


Run 7: Statistics of Copa

Start at: 2018-05-23 02:05:51
End at: 2018-05-23 02:06:21
Local clock offset: 0.099 ms
Remote clock offset: -0.032 ms

Below is generated by plot.py at 2018-05-23 03:43:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.03 Mbit/s
95th percentile per-packet one-way delay: 68.848 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 38.26 Mbit/s
95th percentile per-packet one-way delay: 67.604 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.67 Mbit/s
95th percentile per-packet one-way delay: 73.957 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.21 Mbit/s
95th percentile per-packet one-way delay: 67.027 ms
Loss rate: 0.00%

Run 7: Report of Copa — Data Link

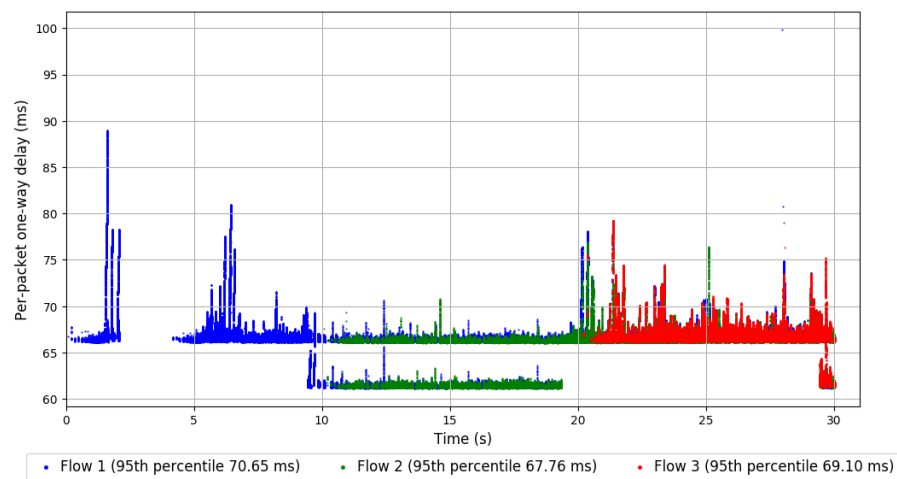
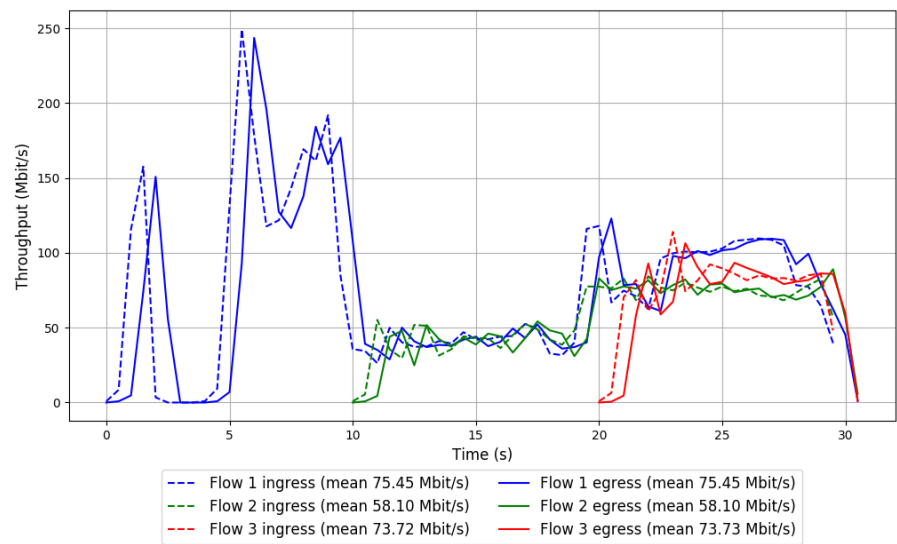


Run 8: Statistics of Copa

Start at: 2018-05-23 02:27:57
End at: 2018-05-23 02:28:27
Local clock offset: -0.122 ms
Remote clock offset: -0.483 ms

Below is generated by plot.py at 2018-05-23 03:45:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 138.58 Mbit/s
95th percentile per-packet one-way delay: 69.362 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 75.45 Mbit/s
95th percentile per-packet one-way delay: 70.651 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 58.10 Mbit/s
95th percentile per-packet one-way delay: 67.759 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 73.73 Mbit/s
95th percentile per-packet one-way delay: 69.104 ms
Loss rate: 0.00%

Run 8: Report of Copa — Data Link

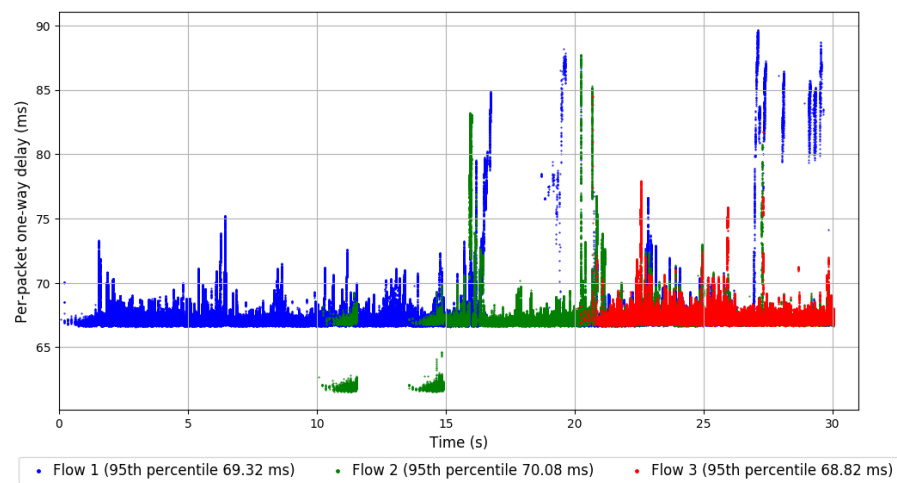
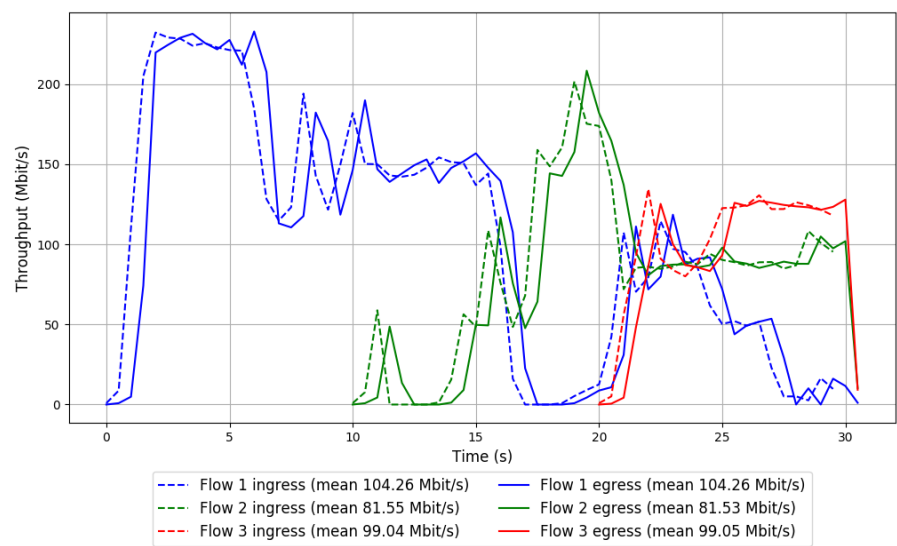


Run 9: Statistics of Copa

Start at: 2018-05-23 02:50:02
End at: 2018-05-23 02:50:32
Local clock offset: 0.46 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2018-05-23 03:48:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 191.32 Mbit/s
95th percentile per-packet one-way delay: 69.345 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 104.26 Mbit/s
95th percentile per-packet one-way delay: 69.324 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 81.53 Mbit/s
95th percentile per-packet one-way delay: 70.080 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 99.05 Mbit/s
95th percentile per-packet one-way delay: 68.821 ms
Loss rate: 0.00%

Run 9: Report of Copa — Data Link

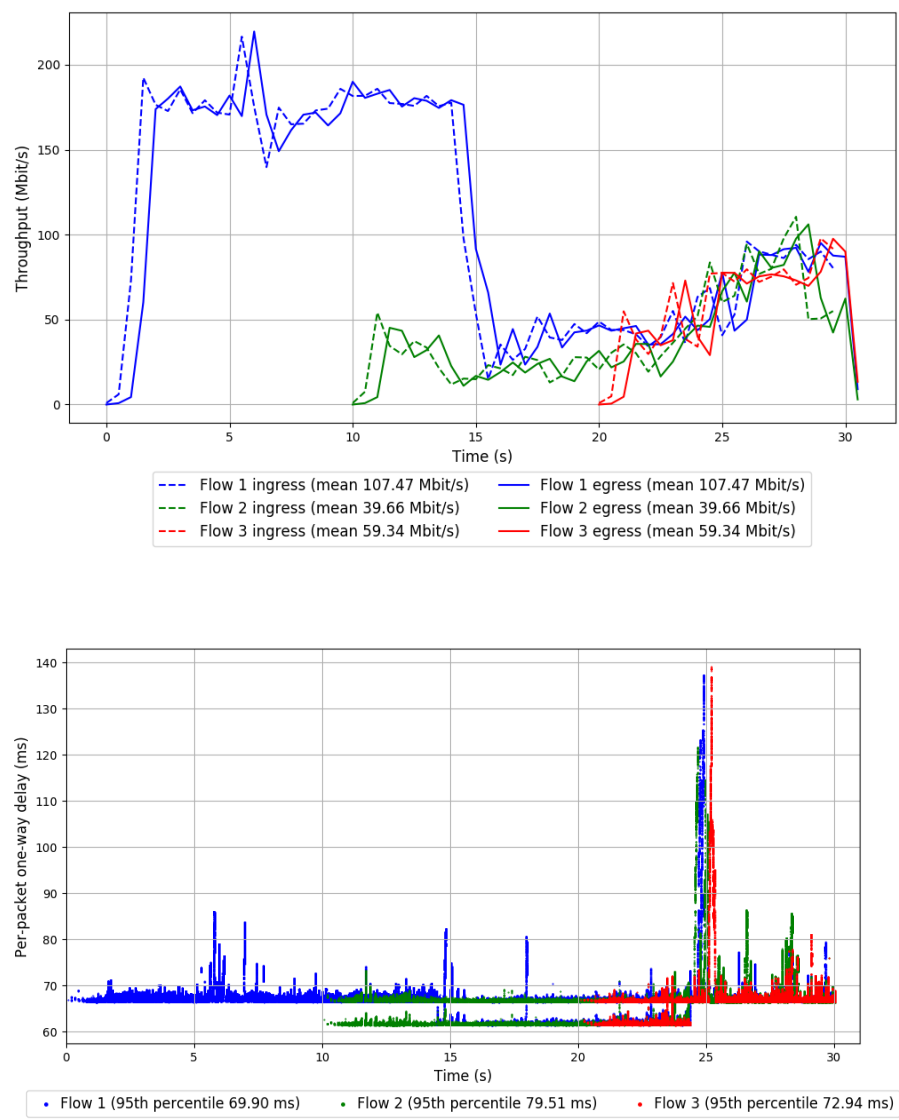


Run 10: Statistics of Copa

Start at: 2018-05-23 03:12:22
End at: 2018-05-23 03:12:52
Local clock offset: 0.717 ms
Remote clock offset: -0.309 ms

Below is generated by plot.py at 2018-05-23 03:48:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 153.53 Mbit/s
95th percentile per-packet one-way delay: 71.908 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 107.47 Mbit/s
95th percentile per-packet one-way delay: 69.900 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.66 Mbit/s
95th percentile per-packet one-way delay: 79.507 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 59.34 Mbit/s
95th percentile per-packet one-way delay: 72.942 ms
Loss rate: 0.00%

Run 10: Report of Copa — Data Link

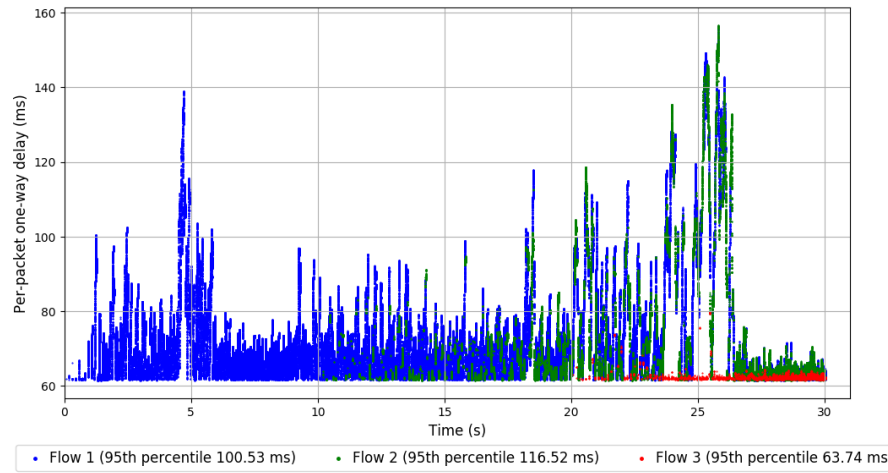
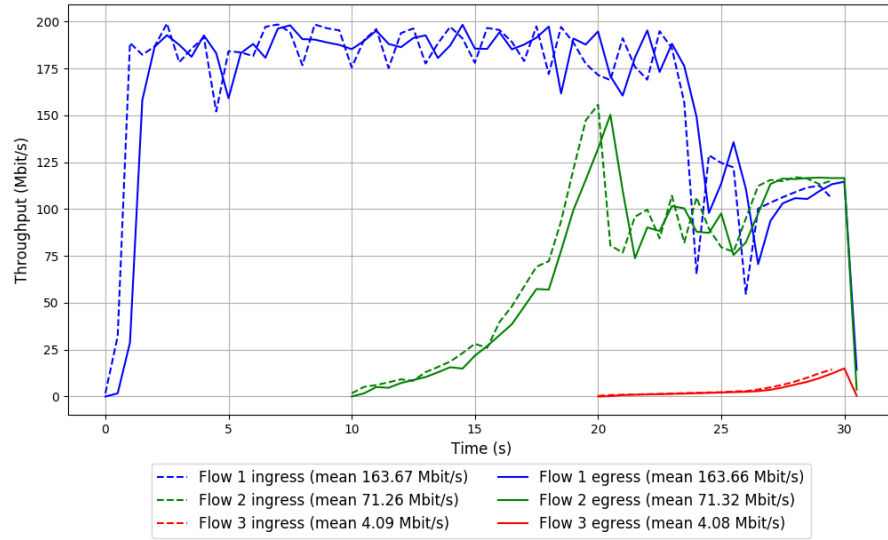


Run 1: Statistics of TCP Cubic

Start at: 2018-05-22 23:44:57
End at: 2018-05-22 23:45:27
Local clock offset: -0.049 ms
Remote clock offset: -0.099 ms

Below is generated by plot.py at 2018-05-23 03:48:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 212.49 Mbit/s
95th percentile per-packet one-way delay: 103.415 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 163.66 Mbit/s
95th percentile per-packet one-way delay: 100.526 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 71.32 Mbit/s
95th percentile per-packet one-way delay: 116.522 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.08 Mbit/s
95th percentile per-packet one-way delay: 63.737 ms
Loss rate: 0.21%

Run 1: Report of TCP Cubic — Data Link

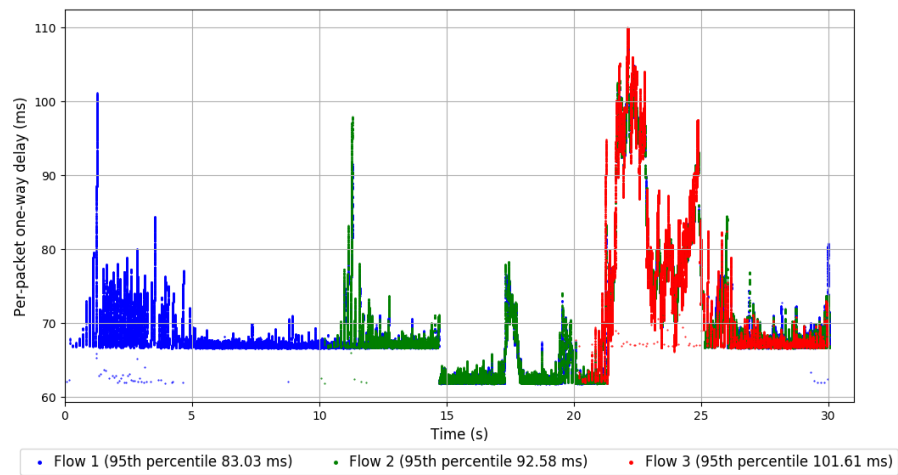
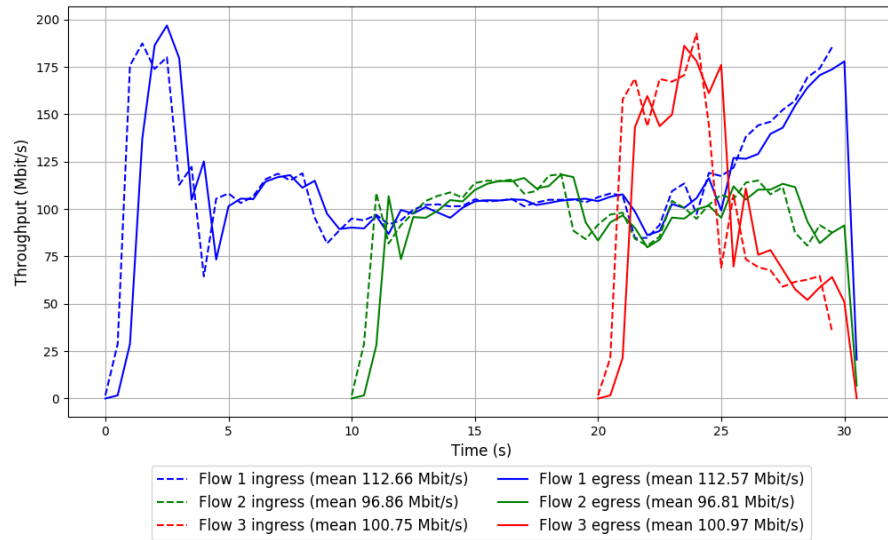


Run 2: Statistics of TCP Cubic

Start at: 2018-05-23 00:07:12
End at: 2018-05-23 00:07:42
Local clock offset: -0.102 ms
Remote clock offset: -0.019 ms

Below is generated by plot.py at 2018-05-23 03:48:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 210.54 Mbit/s
95th percentile per-packet one-way delay: 94.695 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 112.57 Mbit/s
95th percentile per-packet one-way delay: 83.033 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 96.81 Mbit/s
95th percentile per-packet one-way delay: 92.585 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 100.97 Mbit/s
95th percentile per-packet one-way delay: 101.612 ms
Loss rate: 0.01%

Run 2: Report of TCP Cubic — Data Link

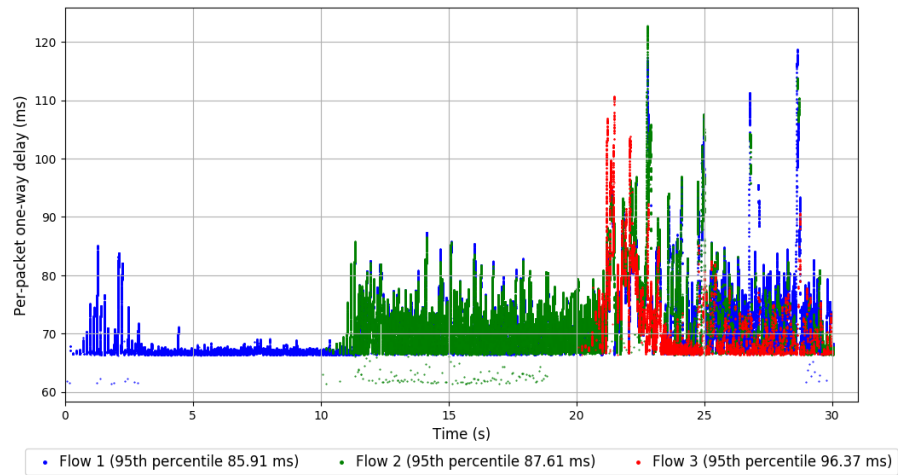
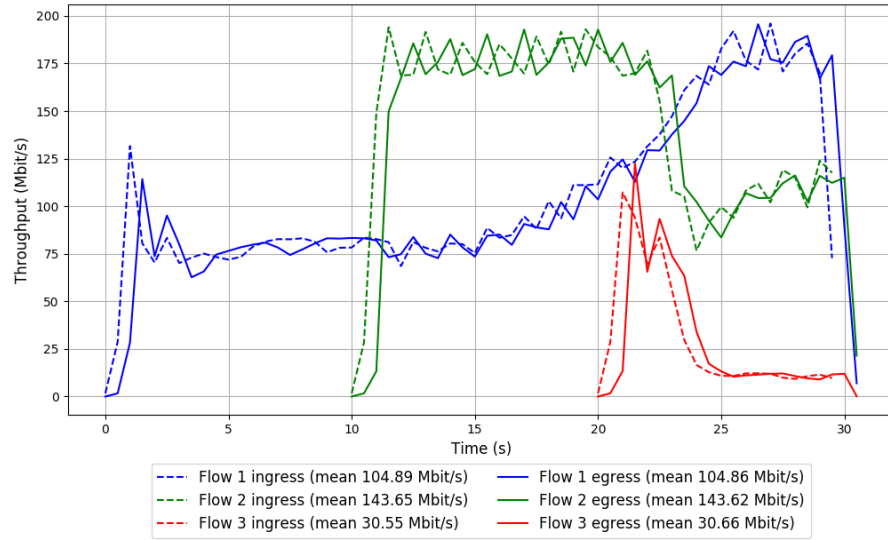


Run 3: Statistics of TCP Cubic

Start at: 2018-05-23 00:29:38
End at: 2018-05-23 00:30:08
Local clock offset: 0.344 ms
Remote clock offset: -0.116 ms

Below is generated by plot.py at 2018-05-23 03:48:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 210.62 Mbit/s
95th percentile per-packet one-way delay: 87.492 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 104.86 Mbit/s
95th percentile per-packet one-way delay: 85.906 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 143.62 Mbit/s
95th percentile per-packet one-way delay: 87.613 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.66 Mbit/s
95th percentile per-packet one-way delay: 96.374 ms
Loss rate: 0.09%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-05-23 00:52:04

End at: 2018-05-23 00:52:34

Local clock offset: 0.376 ms

Remote clock offset: 0.195 ms

Below is generated by plot.py at 2018-05-23 03:48:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 183.39 Mbit/s

95th percentile per-packet one-way delay: 77.656 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 114.64 Mbit/s

95th percentile per-packet one-way delay: 76.861 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 101.70 Mbit/s

95th percentile per-packet one-way delay: 78.971 ms

Loss rate: 0.00%

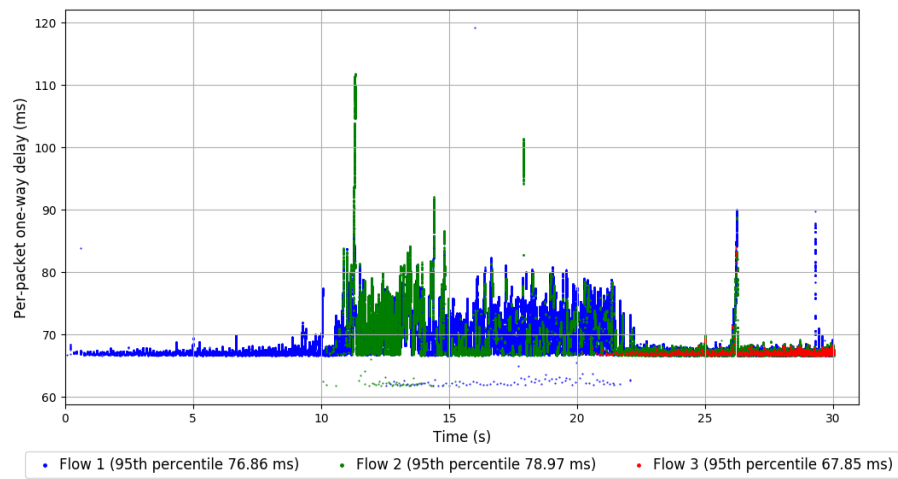
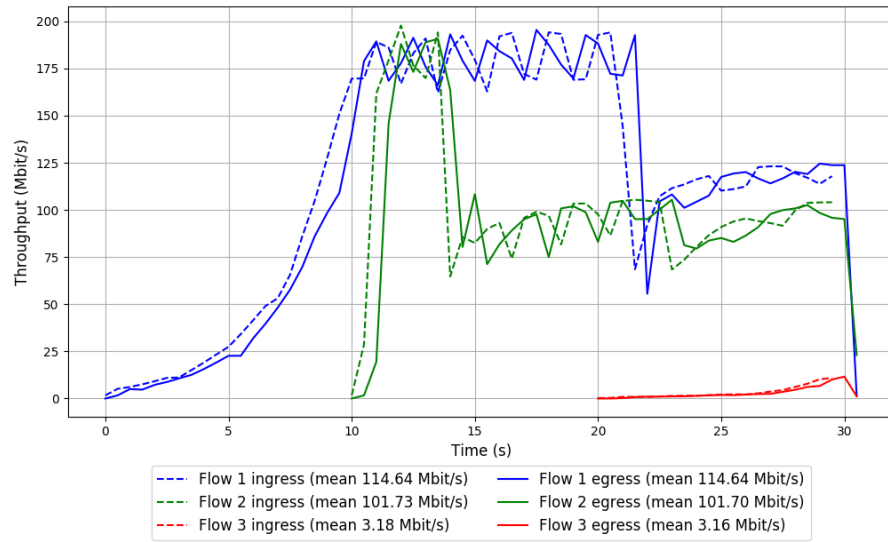
-- Flow 3:

Average throughput: 3.16 Mbit/s

95th percentile per-packet one-way delay: 67.851 ms

Loss rate: 0.38%

Run 4: Report of TCP Cubic — Data Link

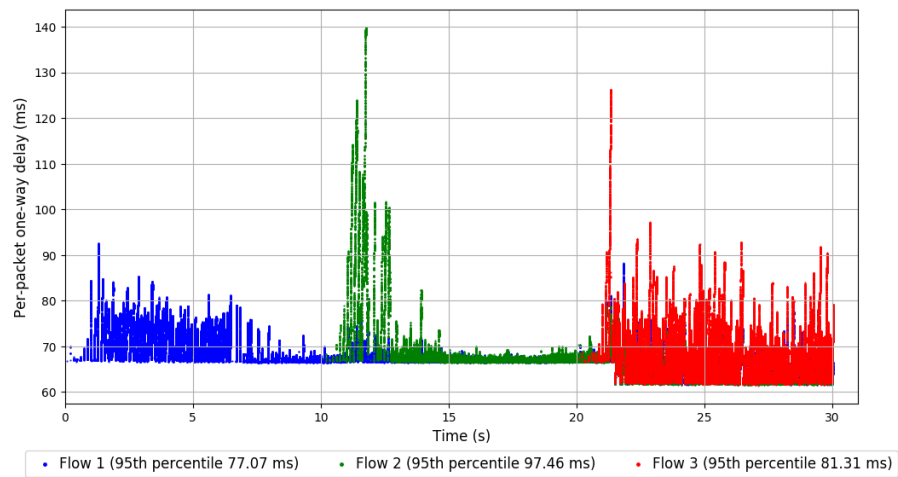
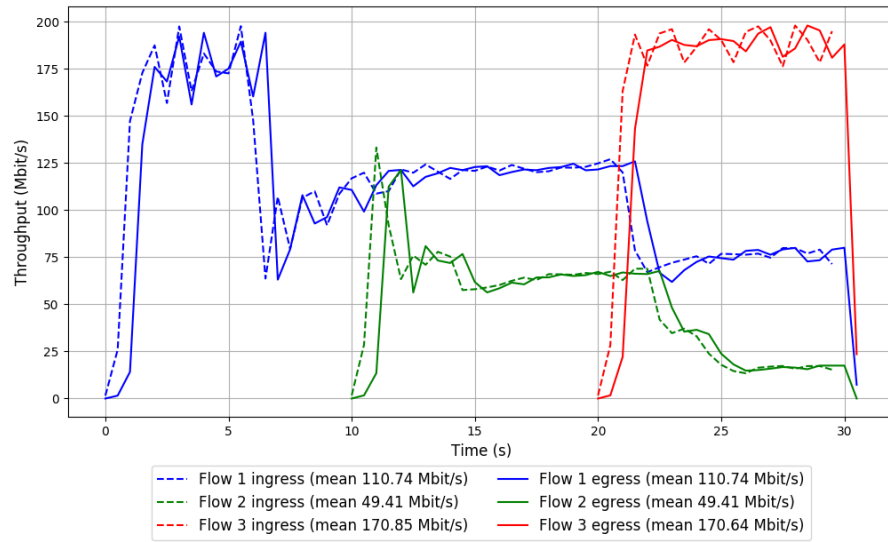


Run 5: Statistics of TCP Cubic

Start at: 2018-05-23 01:14:45
End at: 2018-05-23 01:15:15
Local clock offset: -0.018 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2018-05-23 03:48:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 200.35 Mbit/s
95th percentile per-packet one-way delay: 79.244 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 110.74 Mbit/s
95th percentile per-packet one-way delay: 77.068 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 49.41 Mbit/s
95th percentile per-packet one-way delay: 97.457 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 170.64 Mbit/s
95th percentile per-packet one-way delay: 81.311 ms
Loss rate: 0.03%

Run 5: Report of TCP Cubic — Data Link

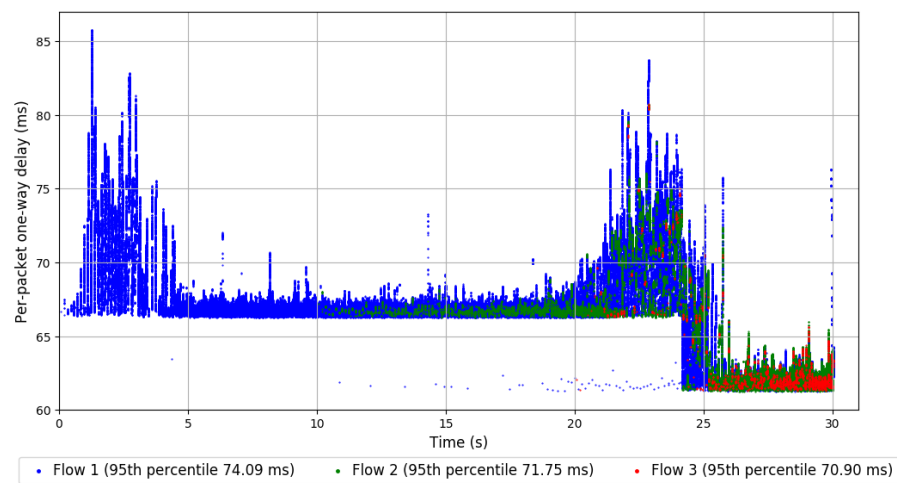
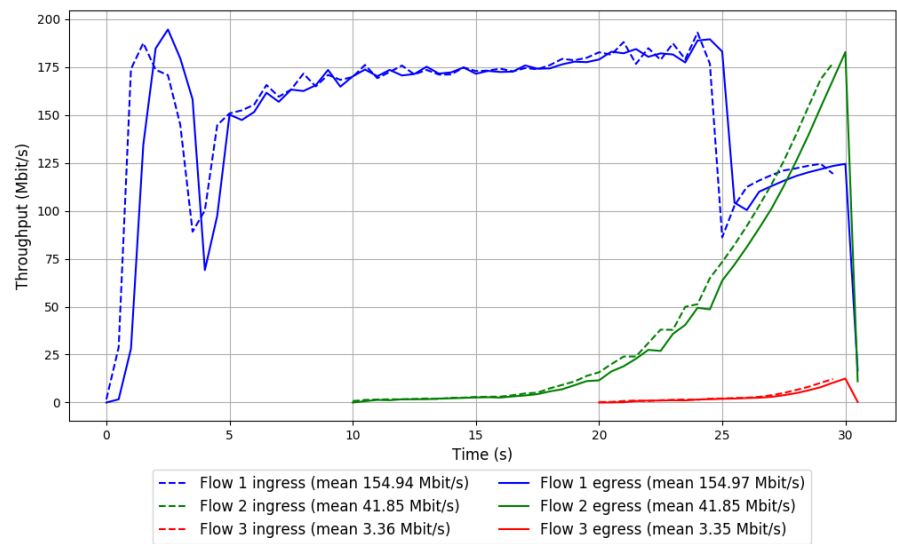


Run 6: Statistics of TCP Cubic

Start at: 2018-05-23 01:37:13
End at: 2018-05-23 01:37:43
Local clock offset: 0.245 ms
Remote clock offset: -0.187 ms

Below is generated by plot.py at 2018-05-23 03:49:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 183.91 Mbit/s
95th percentile per-packet one-way delay: 73.672 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 154.97 Mbit/s
95th percentile per-packet one-way delay: 74.088 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.85 Mbit/s
95th percentile per-packet one-way delay: 71.755 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.35 Mbit/s
95th percentile per-packet one-way delay: 70.902 ms
Loss rate: 0.36%

Run 6: Report of TCP Cubic — Data Link

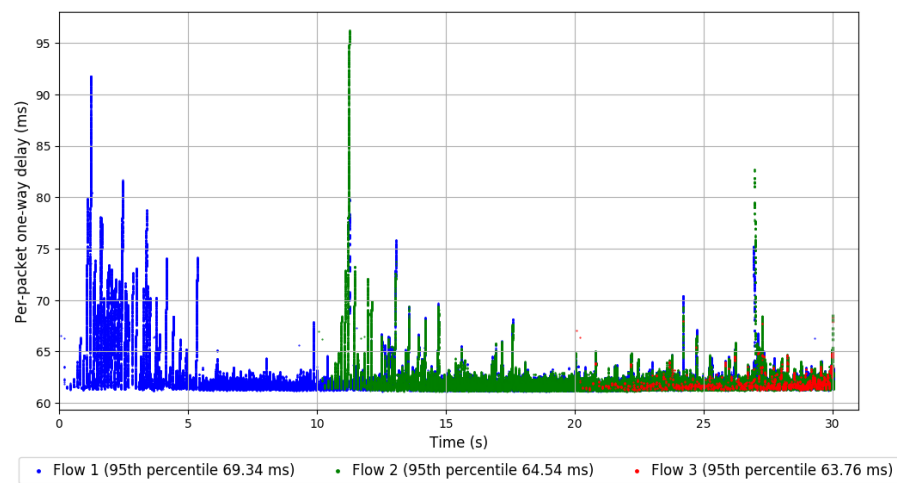
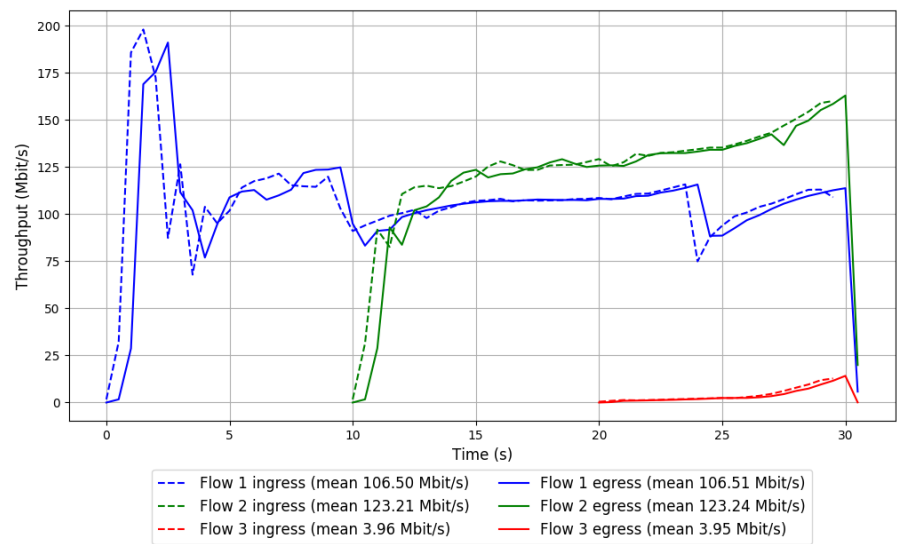


Run 7: Statistics of TCP Cubic

Start at: 2018-05-23 01:59:14
End at: 2018-05-23 01:59:44
Local clock offset: 0.237 ms
Remote clock offset: -0.289 ms

Below is generated by plot.py at 2018-05-23 03:49:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 189.94 Mbit/s
95th percentile per-packet one-way delay: 67.669 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 106.51 Mbit/s
95th percentile per-packet one-way delay: 69.340 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 123.24 Mbit/s
95th percentile per-packet one-way delay: 64.537 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.95 Mbit/s
95th percentile per-packet one-way delay: 63.755 ms
Loss rate: 0.24%

Run 7: Report of TCP Cubic — Data Link

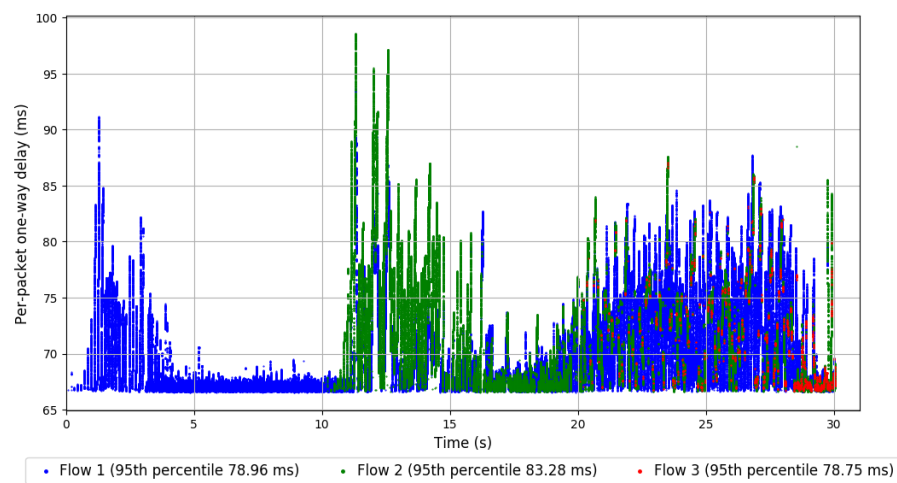
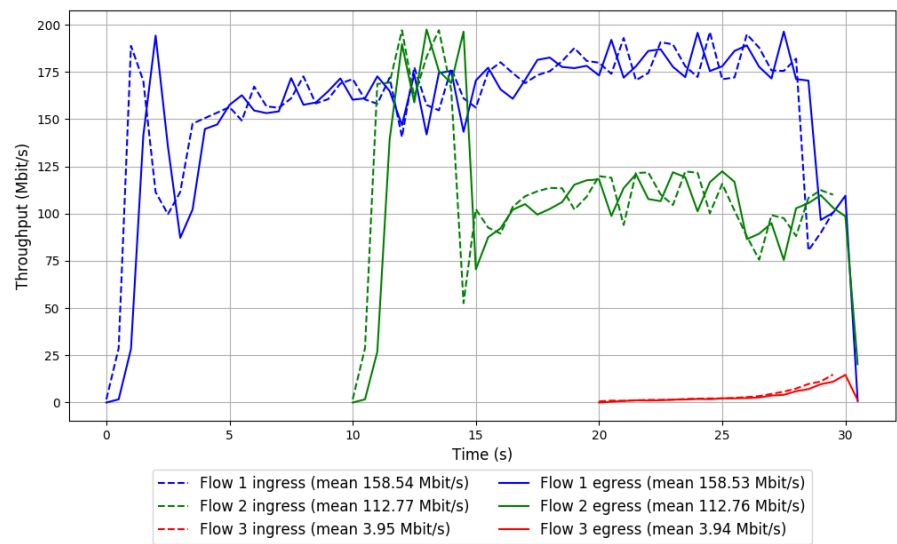


Run 8: Statistics of TCP Cubic

Start at: 2018-05-23 02:21:20
End at: 2018-05-23 02:21:50
Local clock offset: -0.062 ms
Remote clock offset: -0.079 ms

Below is generated by plot.py at 2018-05-23 03:51:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 234.89 Mbit/s
95th percentile per-packet one-way delay: 80.580 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 158.53 Mbit/s
95th percentile per-packet one-way delay: 78.962 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 112.76 Mbit/s
95th percentile per-packet one-way delay: 83.276 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 3.94 Mbit/s
95th percentile per-packet one-way delay: 78.755 ms
Loss rate: 0.18%

Run 8: Report of TCP Cubic — Data Link

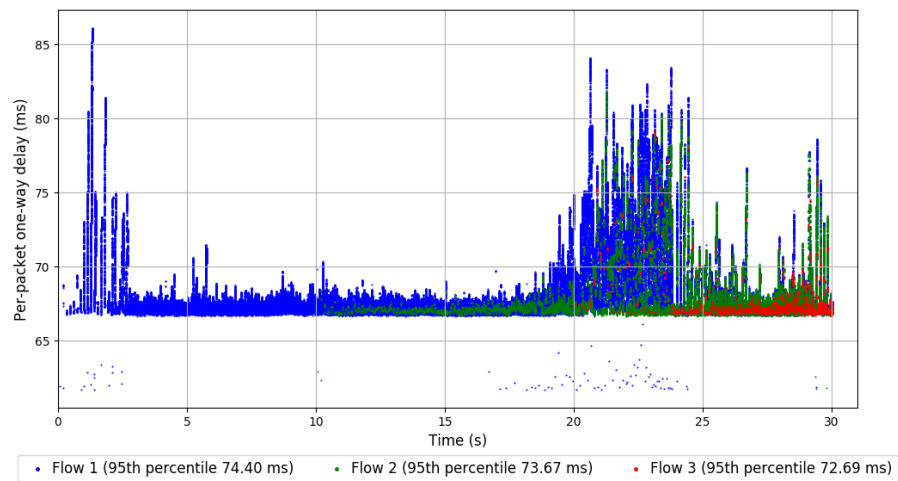
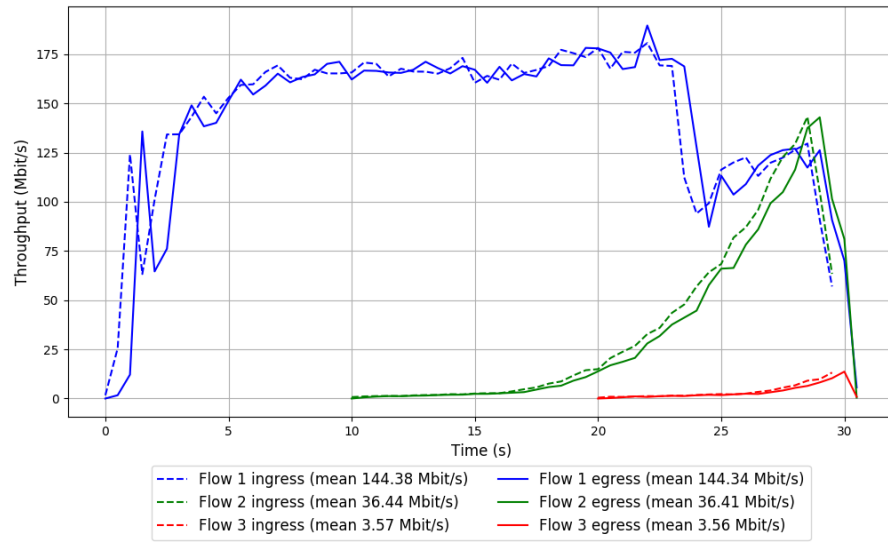


Run 9: Statistics of TCP Cubic

Start at: 2018-05-23 02:43:28
End at: 2018-05-23 02:43:58
Local clock offset: 0.38 ms
Remote clock offset: -0.043 ms

Below is generated by plot.py at 2018-05-23 03:51:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 169.75 Mbit/s
95th percentile per-packet one-way delay: 74.294 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 144.34 Mbit/s
95th percentile per-packet one-way delay: 74.399 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 36.41 Mbit/s
95th percentile per-packet one-way delay: 73.671 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 3.56 Mbit/s
95th percentile per-packet one-way delay: 72.686 ms
Loss rate: 0.27%

Run 9: Report of TCP Cubic — Data Link

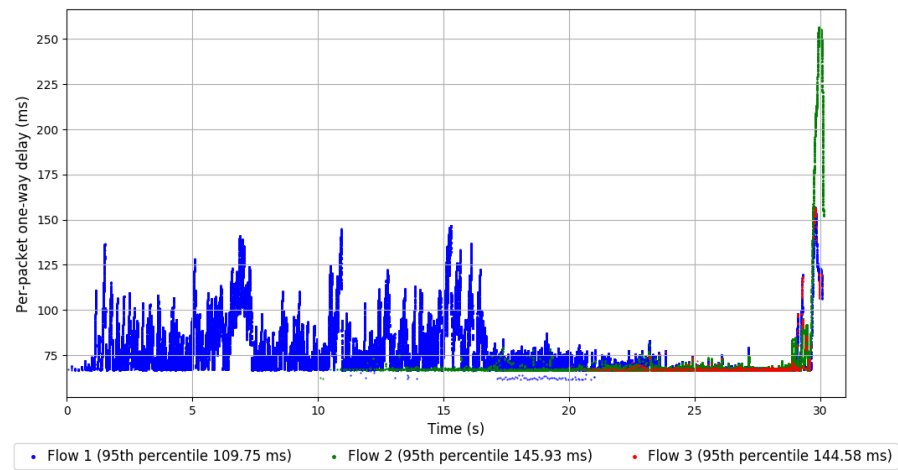
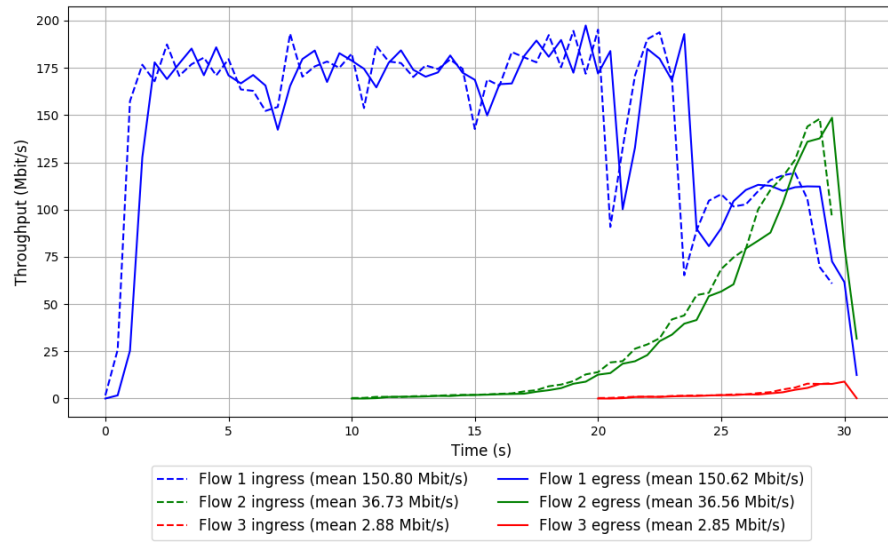


Run 10: Statistics of TCP Cubic

Start at: 2018-05-23 03:05:46
End at: 2018-05-23 03:06:16
Local clock offset: 0.739 ms
Remote clock offset: -0.135 ms

Below is generated by plot.py at 2018-05-23 03:51:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 175.73 Mbit/s
95th percentile per-packet one-way delay: 109.984 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 150.62 Mbit/s
95th percentile per-packet one-way delay: 109.753 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 36.56 Mbit/s
95th percentile per-packet one-way delay: 145.928 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 2.85 Mbit/s
95th percentile per-packet one-way delay: 144.578 ms
Loss rate: 0.42%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-05-22 23:41:32

End at: 2018-05-22 23:42:02

Local clock offset: -0.044 ms

Remote clock offset: 0.076 ms

Below is generated by plot.py at 2018-05-23 04:13:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 1023.62 Mbit/s

95th percentile per-packet one-way delay: 240.772 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 547.82 Mbit/s

95th percentile per-packet one-way delay: 242.671 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 440.12 Mbit/s

95th percentile per-packet one-way delay: 243.516 ms

Loss rate: 0.06%

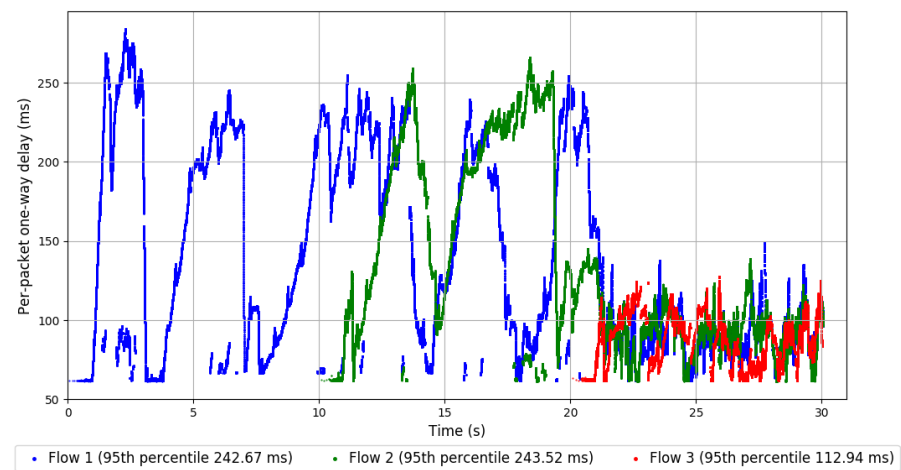
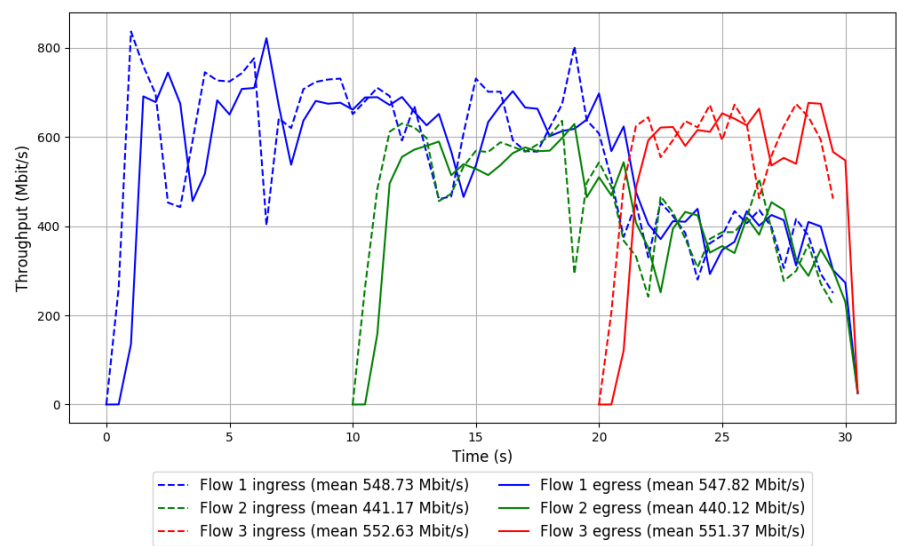
-- Flow 3:

Average throughput: 551.37 Mbit/s

95th percentile per-packet one-way delay: 112.937 ms

Loss rate: 0.00%

Run 1: Report of FillP — Data Link

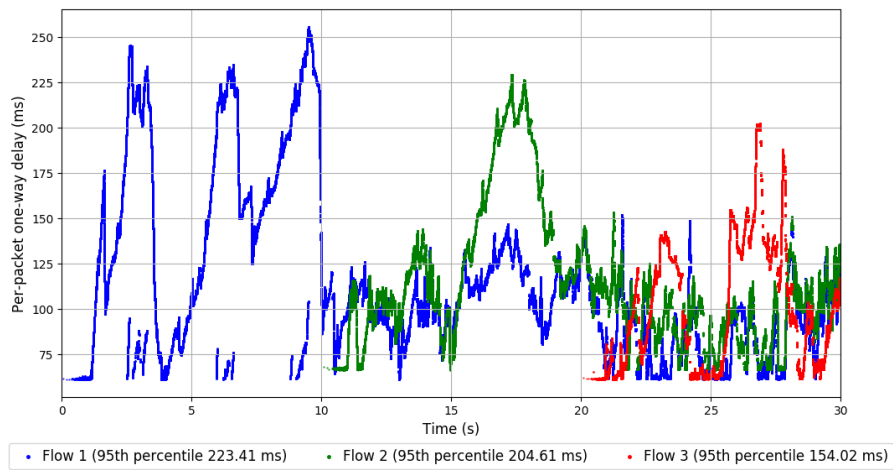
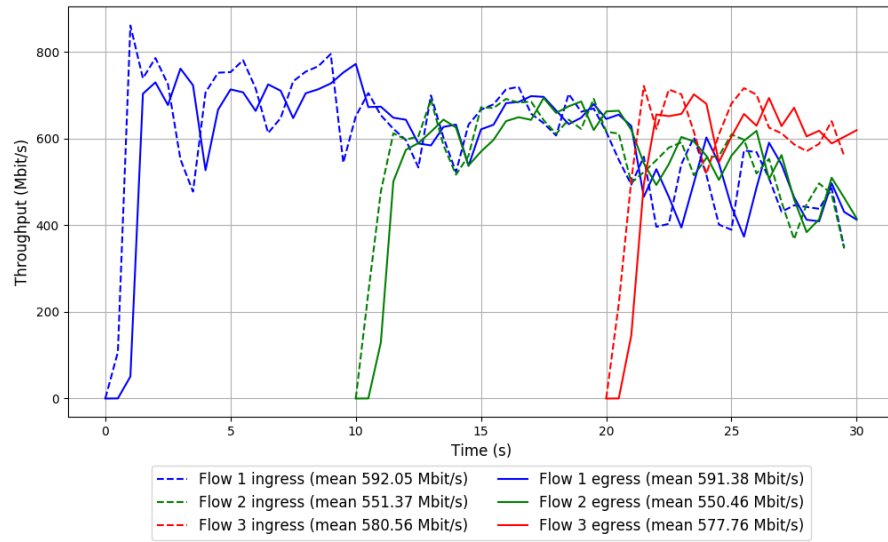


Run 2: Statistics of FillP

Start at: 2018-05-23 00:03:47
End at: 2018-05-23 00:04:17
Local clock offset: 0.012 ms
Remote clock offset: -0.305 ms

Below is generated by plot.py at 2018-05-23 04:18:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 1148.75 Mbit/s
95th percentile per-packet one-way delay: 213.641 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 591.38 Mbit/s
95th percentile per-packet one-way delay: 223.415 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 550.46 Mbit/s
95th percentile per-packet one-way delay: 204.611 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 577.76 Mbit/s
95th percentile per-packet one-way delay: 154.017 ms
Loss rate: 0.48%

Run 2: Report of FillP — Data Link

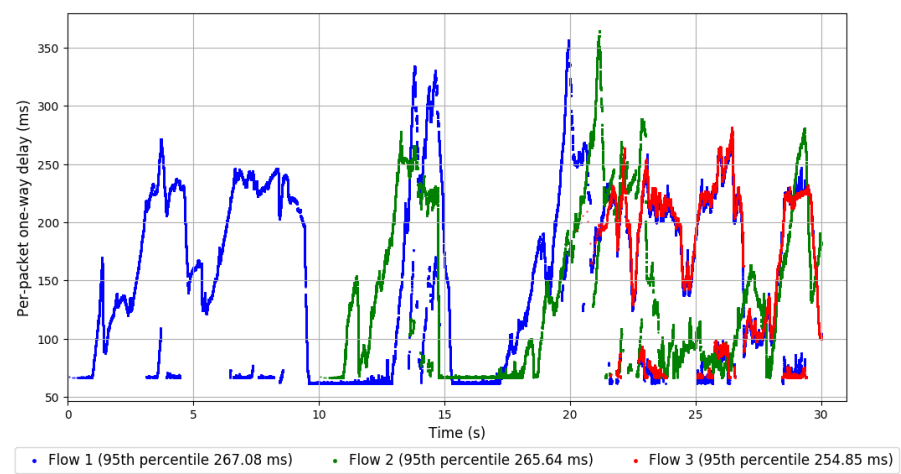
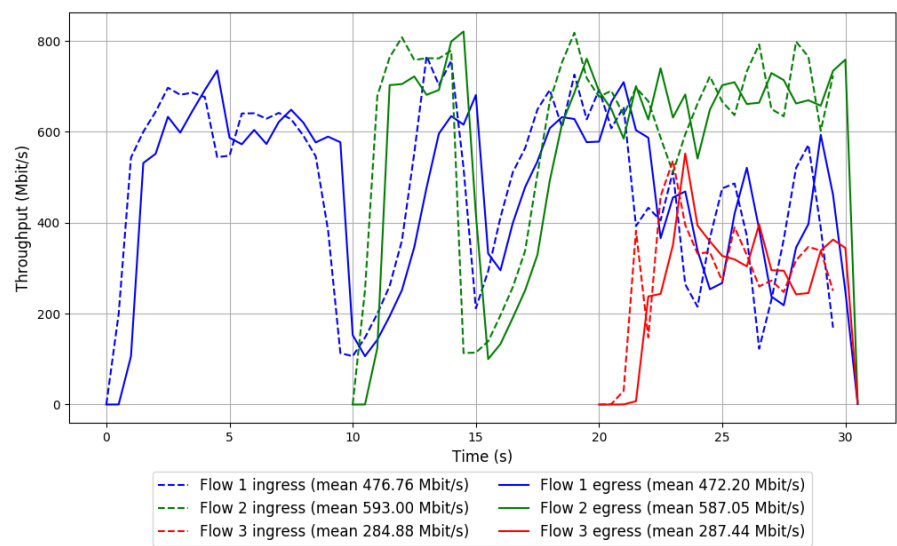


Run 3: Statistics of FillP

Start at: 2018-05-23 00:26:18
End at: 2018-05-23 00:26:48
Local clock offset: 0.246 ms
Remote clock offset: -0.117 ms

Below is generated by plot.py at 2018-05-23 04:18:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 956.67 Mbit/s
95th percentile per-packet one-way delay: 264.917 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 472.20 Mbit/s
95th percentile per-packet one-way delay: 267.081 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 587.05 Mbit/s
95th percentile per-packet one-way delay: 265.640 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 287.44 Mbit/s
95th percentile per-packet one-way delay: 254.851 ms
Loss rate: 0.44%

Run 3: Report of FillP — Data Link

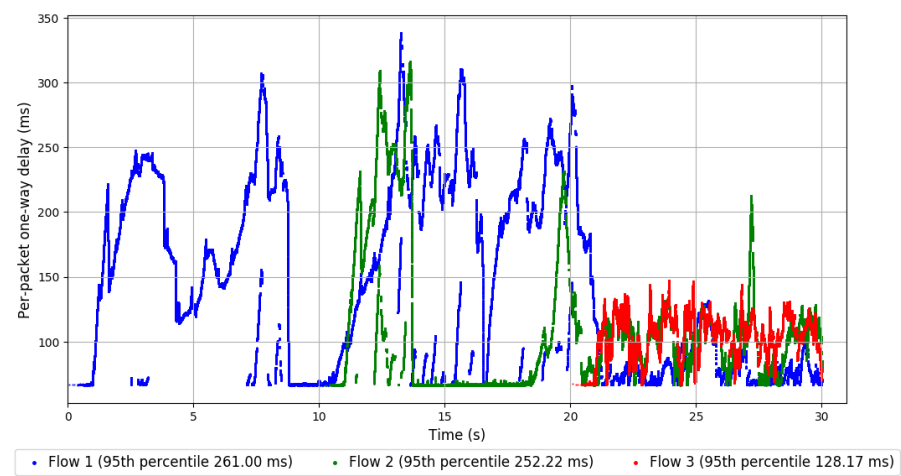
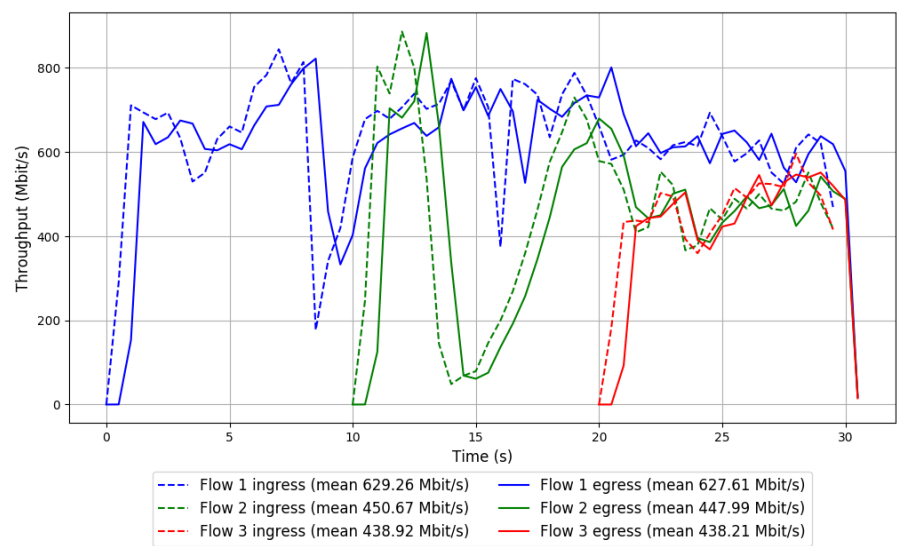


Run 4: Statistics of FillP

Start at: 2018-05-23 00:48:37
End at: 2018-05-23 00:49:07
Local clock offset: 0.335 ms
Remote clock offset: -0.067 ms

Below is generated by plot.py at 2018-05-23 04:18:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 1070.71 Mbit/s
95th percentile per-packet one-way delay: 254.035 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 627.61 Mbit/s
95th percentile per-packet one-way delay: 261.000 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 447.99 Mbit/s
95th percentile per-packet one-way delay: 252.215 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 438.21 Mbit/s
95th percentile per-packet one-way delay: 128.166 ms
Loss rate: 0.06%

Run 4: Report of FillP — Data Link

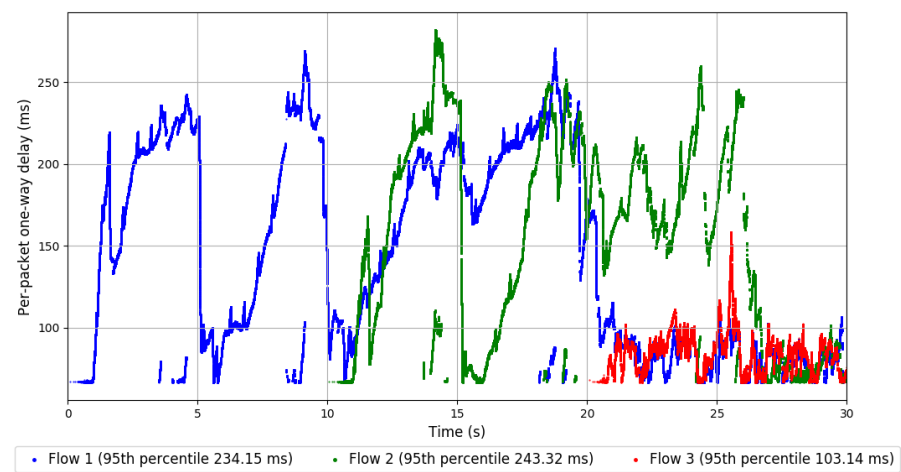
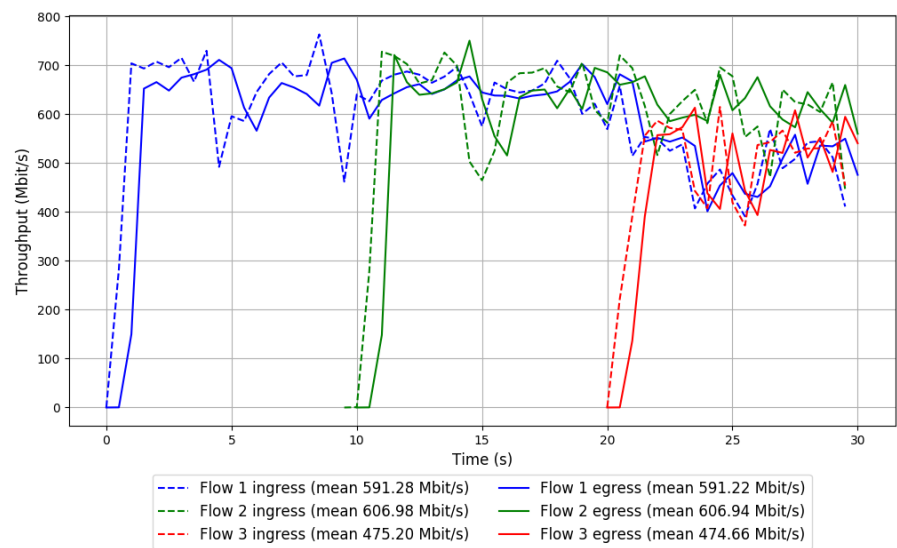


Run 5: Statistics of FillP

Start at: 2018-05-23 01:11:14
End at: 2018-05-23 01:11:44
Local clock offset: -0.057 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2018-05-23 04:20:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 1153.04 Mbit/s
95th percentile per-packet one-way delay: 237.706 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 591.22 Mbit/s
95th percentile per-packet one-way delay: 234.147 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 606.94 Mbit/s
95th percentile per-packet one-way delay: 243.320 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 474.66 Mbit/s
95th percentile per-packet one-way delay: 103.143 ms
Loss rate: 0.12%

Run 5: Report of FillP — Data Link

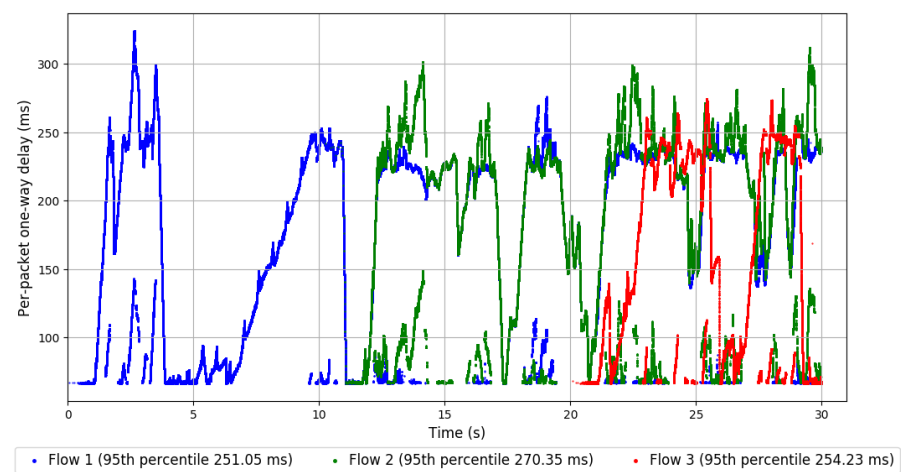
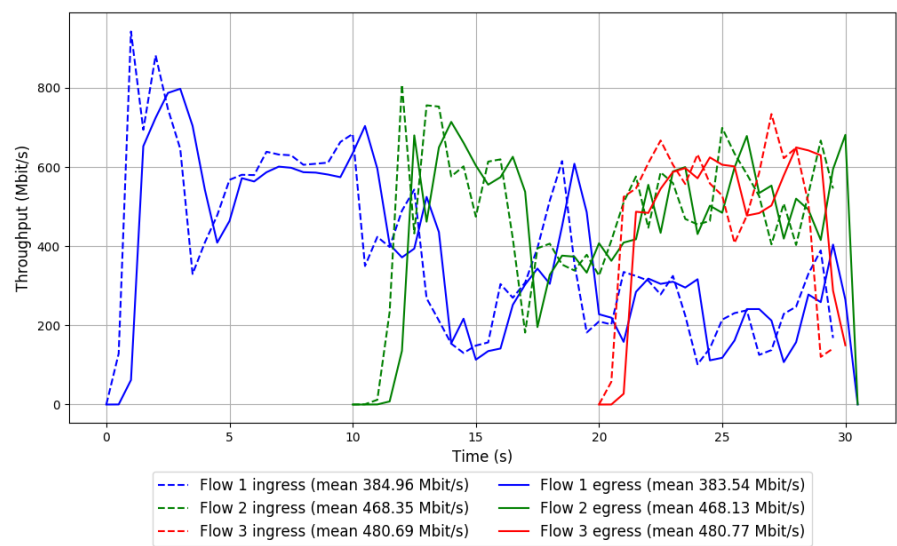


Run 6: Statistics of FillP

Start at: 2018-05-23 01:33:53
End at: 2018-05-23 01:34:23
Local clock offset: 0.16 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-05-23 04:20:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 851.64 Mbit/s
95th percentile per-packet one-way delay: 259.597 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 383.54 Mbit/s
95th percentile per-packet one-way delay: 251.047 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 468.13 Mbit/s
95th percentile per-packet one-way delay: 270.350 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 480.77 Mbit/s
95th percentile per-packet one-way delay: 254.227 ms
Loss rate: 0.00%

Run 6: Report of FillP — Data Link

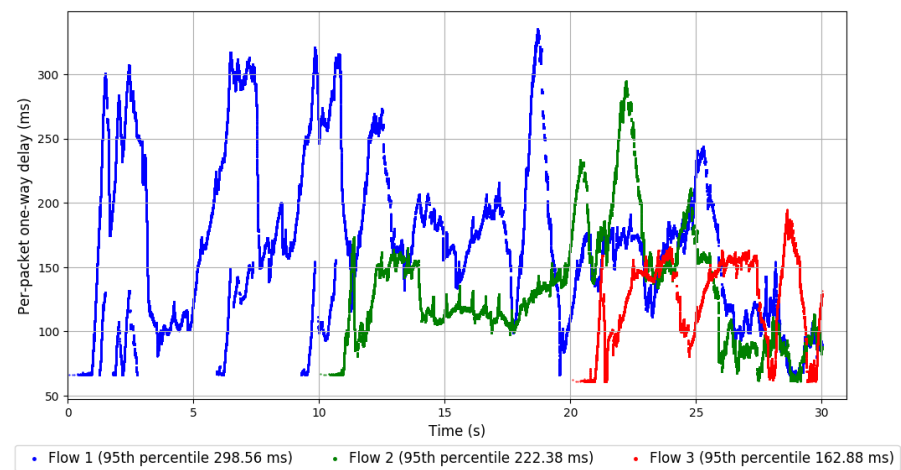
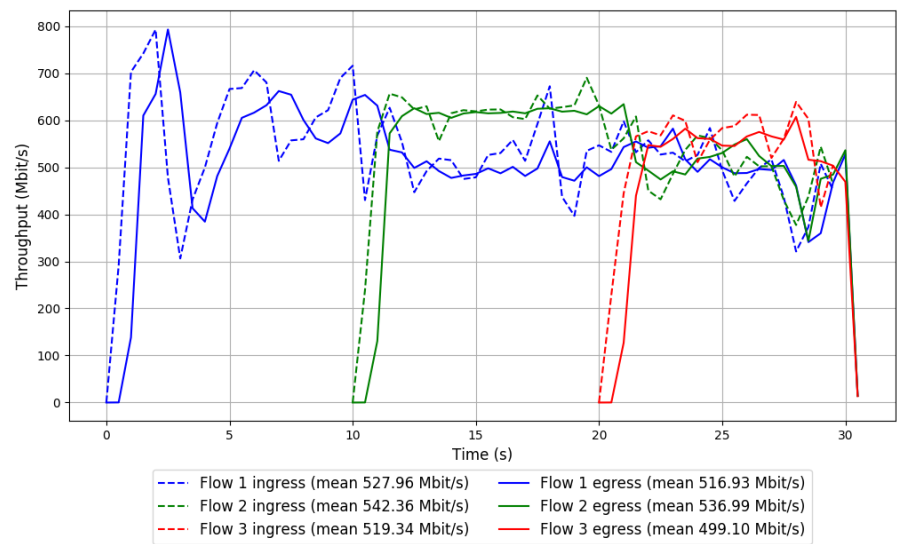


Run 7: Statistics of FillP

Start at: 2018-05-23 01:55:47
End at: 2018-05-23 01:56:17
Local clock offset: 0.301 ms
Remote clock offset: -0.417 ms

Below is generated by plot.py at 2018-05-23 04:20:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 1039.67 Mbit/s
95th percentile per-packet one-way delay: 277.836 ms
Loss rate: 2.00%
-- Flow 1:
Average throughput: 516.93 Mbit/s
95th percentile per-packet one-way delay: 298.555 ms
Loss rate: 2.09%
-- Flow 2:
Average throughput: 536.99 Mbit/s
95th percentile per-packet one-way delay: 222.385 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 499.10 Mbit/s
95th percentile per-packet one-way delay: 162.878 ms
Loss rate: 3.85%

Run 7: Report of FillP — Data Link

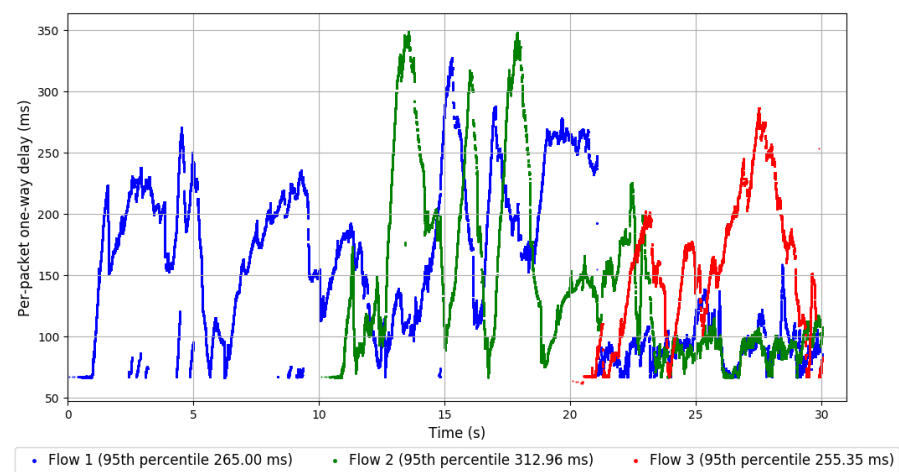
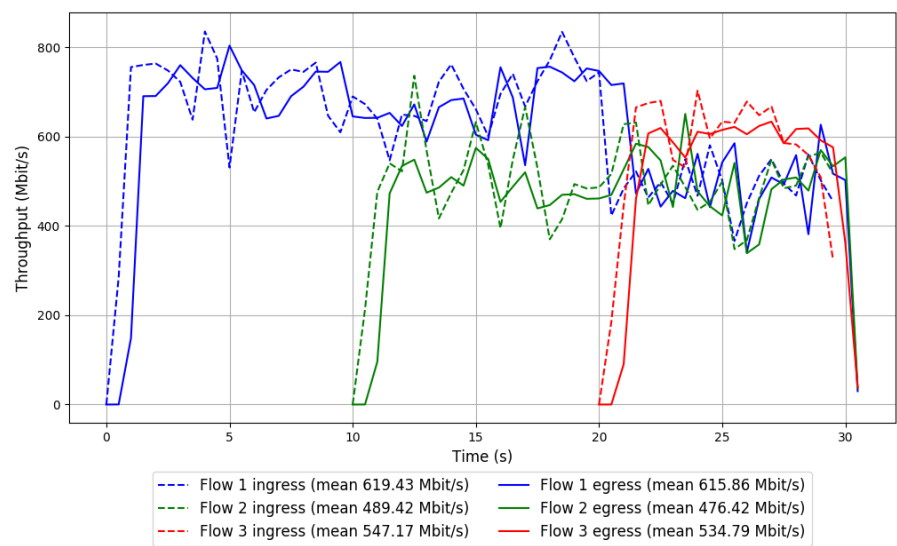


Run 8: Statistics of FillP

Start at: 2018-05-23 02:17:50
End at: 2018-05-23 02:18:20
Local clock offset: -0.118 ms
Remote clock offset: -0.265 ms

Below is generated by plot.py at 2018-05-23 04:21:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 1110.24 Mbit/s
95th percentile per-packet one-way delay: 268.860 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 615.86 Mbit/s
95th percentile per-packet one-way delay: 264.998 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 476.42 Mbit/s
95th percentile per-packet one-way delay: 312.962 ms
Loss rate: 2.57%
-- Flow 3:
Average throughput: 534.79 Mbit/s
95th percentile per-packet one-way delay: 255.353 ms
Loss rate: 2.08%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-05-23 02:40:13

End at: 2018-05-23 02:40:43

Local clock offset: 0.329 ms

Remote clock offset: 0.108 ms

Below is generated by plot.py at 2018-05-23 04:36:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 832.04 Mbit/s

95th percentile per-packet one-way delay: 284.307 ms

Loss rate: 2.33%

-- Flow 1:

Average throughput: 412.48 Mbit/s

95th percentile per-packet one-way delay: 281.955 ms

Loss rate: 3.86%

-- Flow 2:

Average throughput: 341.22 Mbit/s

95th percentile per-packet one-way delay: 296.368 ms

Loss rate: 0.35%

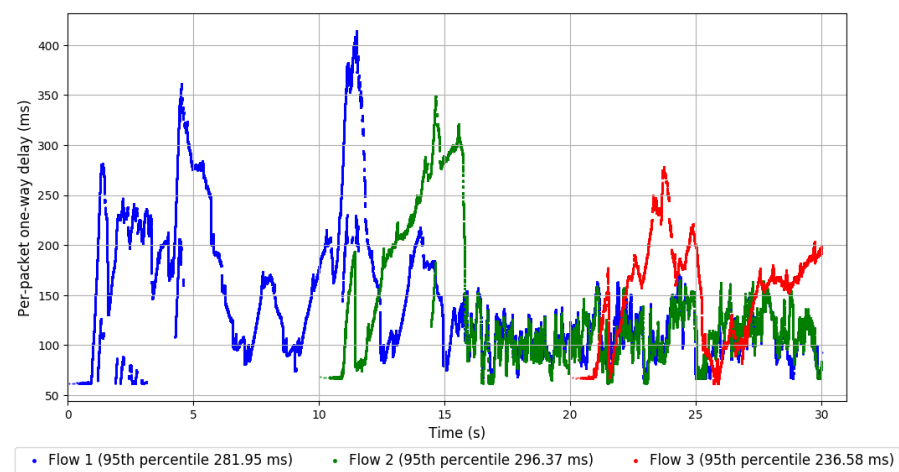
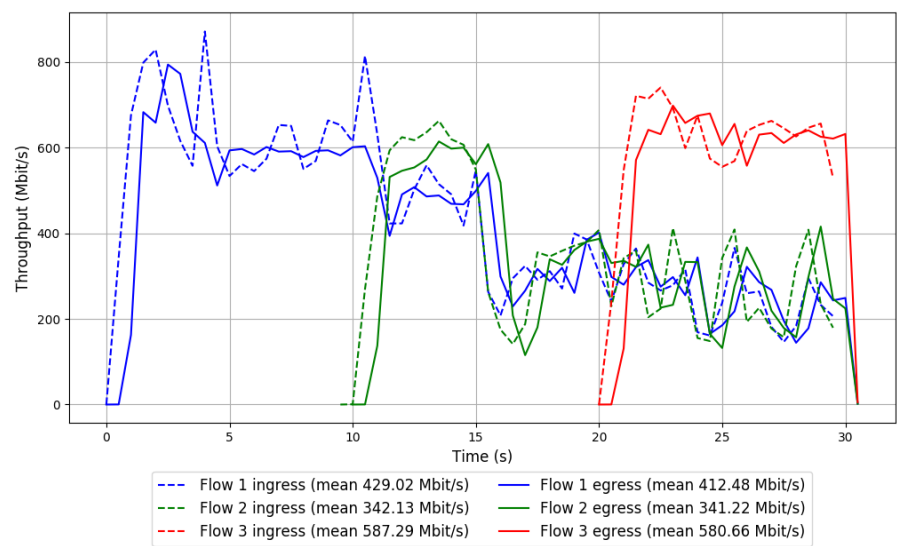
-- Flow 3:

Average throughput: 580.66 Mbit/s

95th percentile per-packet one-way delay: 236.582 ms

Loss rate: 1.29%

Run 9: Report of FillP — Data Link

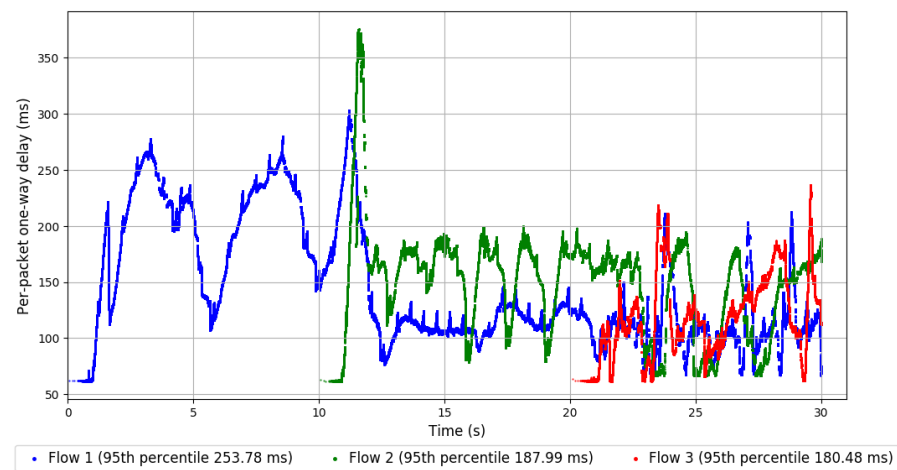
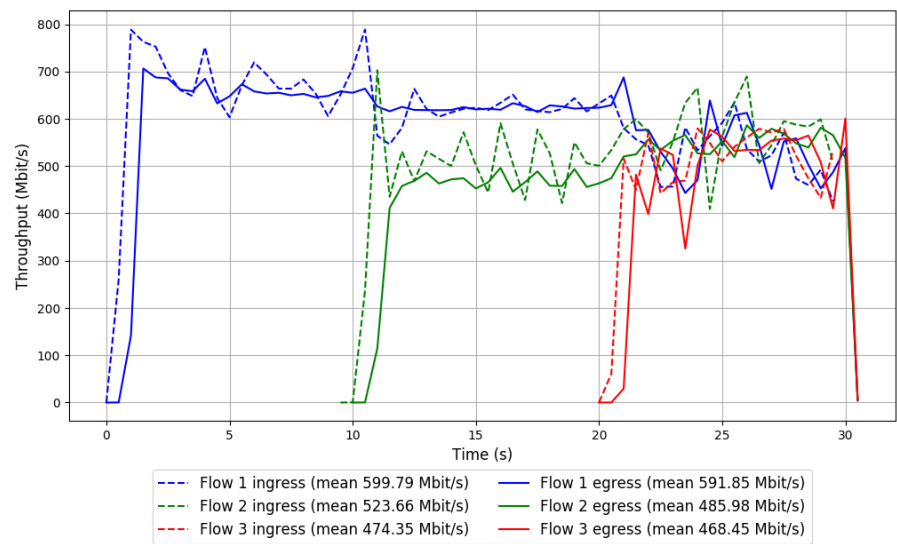


Run 10: Statistics of FillP

Start at: 2018-05-23 03:02:17
End at: 2018-05-23 03:02:47
Local clock offset: 0.584 ms
Remote clock offset: -0.121 ms

Below is generated by plot.py at 2018-05-23 04:44:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 1070.83 Mbit/s
95th percentile per-packet one-way delay: 245.561 ms
Loss rate: 3.13%
-- Flow 1:
Average throughput: 591.85 Mbit/s
95th percentile per-packet one-way delay: 253.782 ms
Loss rate: 1.30%
-- Flow 2:
Average throughput: 485.98 Mbit/s
95th percentile per-packet one-way delay: 187.990 ms
Loss rate: 7.16%
-- Flow 3:
Average throughput: 468.45 Mbit/s
95th percentile per-packet one-way delay: 180.479 ms
Loss rate: 1.19%

Run 10: Report of FillP — Data Link

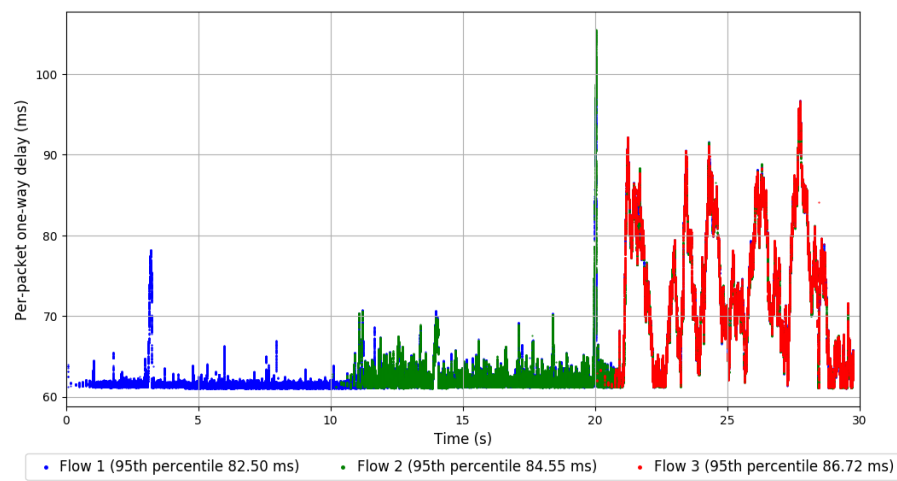
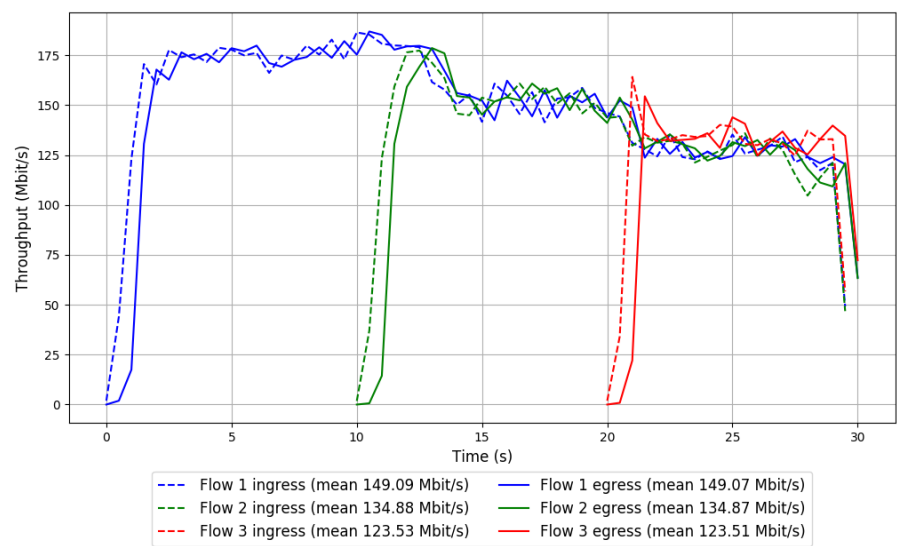


```
Run 1: Statistics of Indigo

Start at: 2018-05-22 23:40:02
End at: 2018-05-22 23:40:32
Local clock offset: 0.021 ms
Remote clock offset: -0.42 ms

# Below is generated by plot.py at 2018-05-23 04:44:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 278.71 Mbit/s
95th percentile per-packet one-way delay: 84.641 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 149.07 Mbit/s
95th percentile per-packet one-way delay: 82.502 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 134.87 Mbit/s
95th percentile per-packet one-way delay: 84.545 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 123.51 Mbit/s
95th percentile per-packet one-way delay: 86.717 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-05-23 00:02:19

End at: 2018-05-23 00:02:49

Local clock offset: 0.045 ms

Remote clock offset: 0.071 ms

Below is generated by plot.py at 2018-05-23 04:44:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 262.00 Mbit/s

95th percentile per-packet one-way delay: 74.585 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 143.57 Mbit/s

95th percentile per-packet one-way delay: 72.267 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 126.76 Mbit/s

95th percentile per-packet one-way delay: 74.749 ms

Loss rate: 0.02%

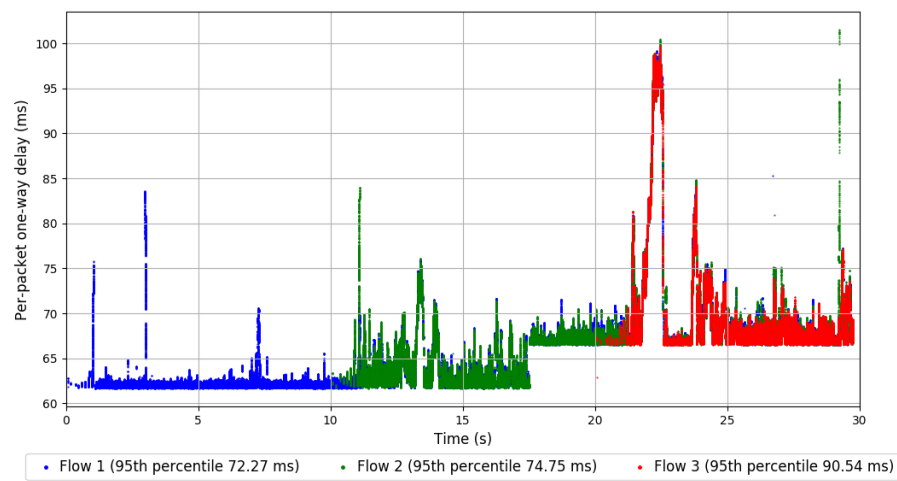
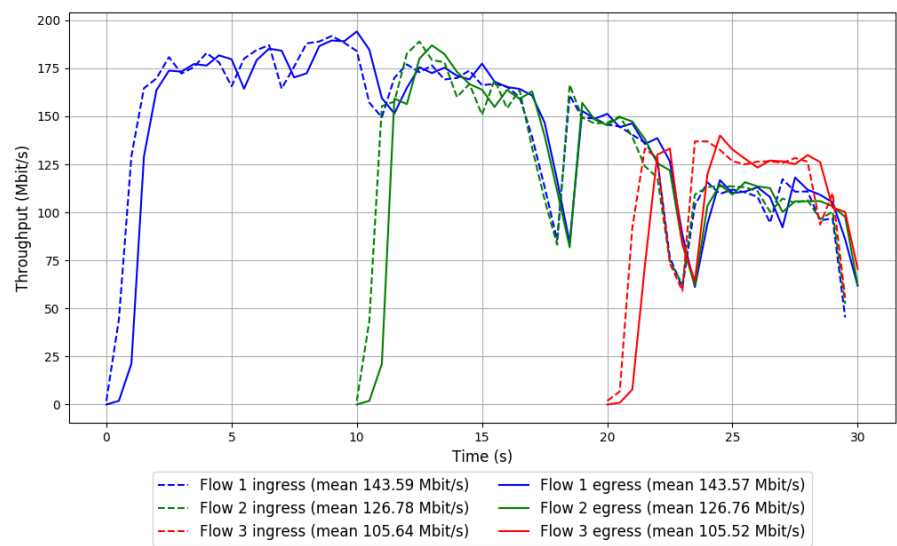
-- Flow 3:

Average throughput: 105.52 Mbit/s

95th percentile per-packet one-way delay: 90.538 ms

Loss rate: 0.12%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-05-23 00:24:48

End at: 2018-05-23 00:25:18

Local clock offset: 0.184 ms

Remote clock offset: 0.075 ms

Below is generated by plot.py at 2018-05-23 04:44:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 270.22 Mbit/s

95th percentile per-packet one-way delay: 88.319 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 146.57 Mbit/s

95th percentile per-packet one-way delay: 81.546 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 126.51 Mbit/s

95th percentile per-packet one-way delay: 88.616 ms

Loss rate: 0.02%

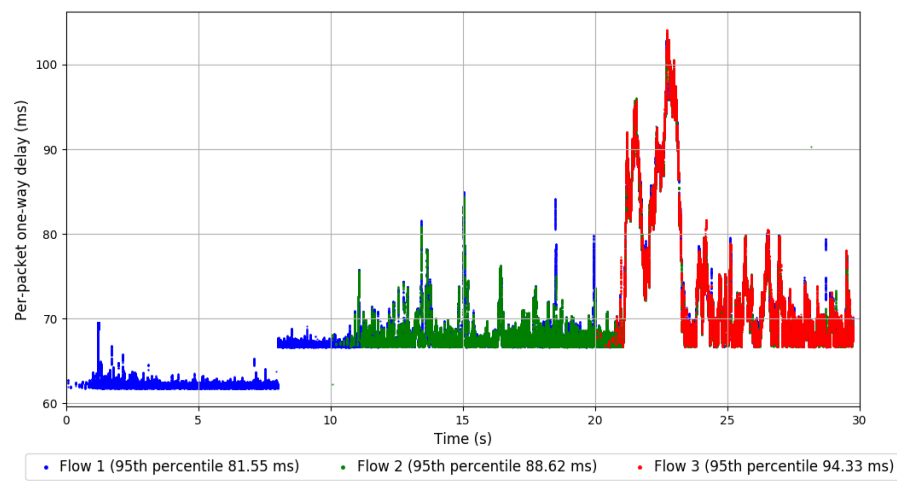
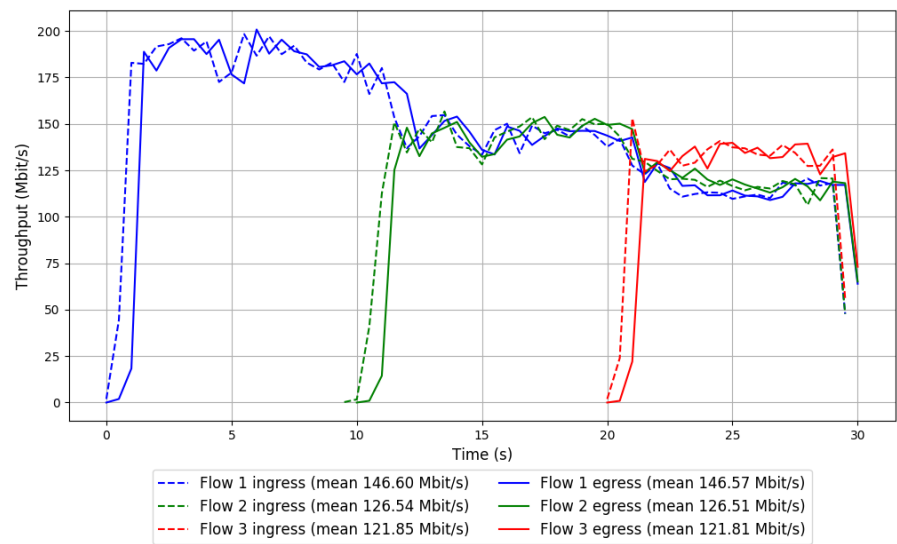
-- Flow 3:

Average throughput: 121.81 Mbit/s

95th percentile per-packet one-way delay: 94.327 ms

Loss rate: 0.08%

Run 3: Report of Indigo — Data Link

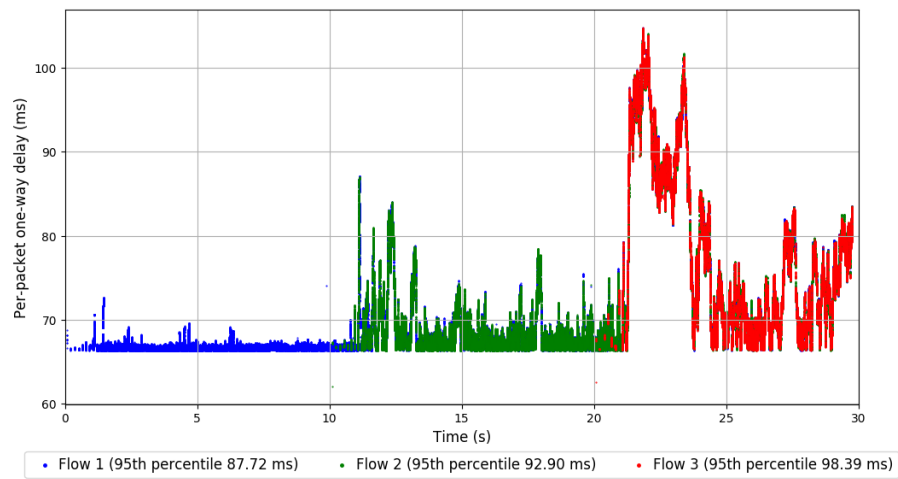
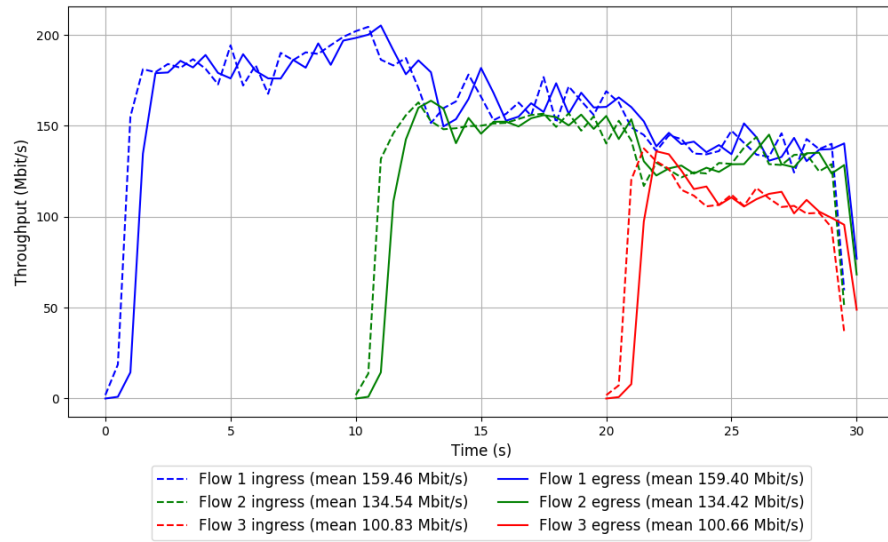


Run 4: Statistics of Indigo

Start at: 2018-05-23 00:47:07
End at: 2018-05-23 00:47:37
Local clock offset: 0.314 ms
Remote clock offset: -0.207 ms

Below is generated by plot.py at 2018-05-23 04:44:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 281.21 Mbit/s
95th percentile per-packet one-way delay: 93.027 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 159.40 Mbit/s
95th percentile per-packet one-way delay: 87.716 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 134.42 Mbit/s
95th percentile per-packet one-way delay: 92.896 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 100.66 Mbit/s
95th percentile per-packet one-way delay: 98.394 ms
Loss rate: 0.13%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-05-23 01:09:45

End at: 2018-05-23 01:10:15

Local clock offset: 0.027 ms

Remote clock offset: 0.261 ms

Below is generated by plot.py at 2018-05-23 04:44:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 264.90 Mbit/s

95th percentile per-packet one-way delay: 79.992 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 144.07 Mbit/s

95th percentile per-packet one-way delay: 78.002 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 138.15 Mbit/s

95th percentile per-packet one-way delay: 80.618 ms

Loss rate: 0.08%

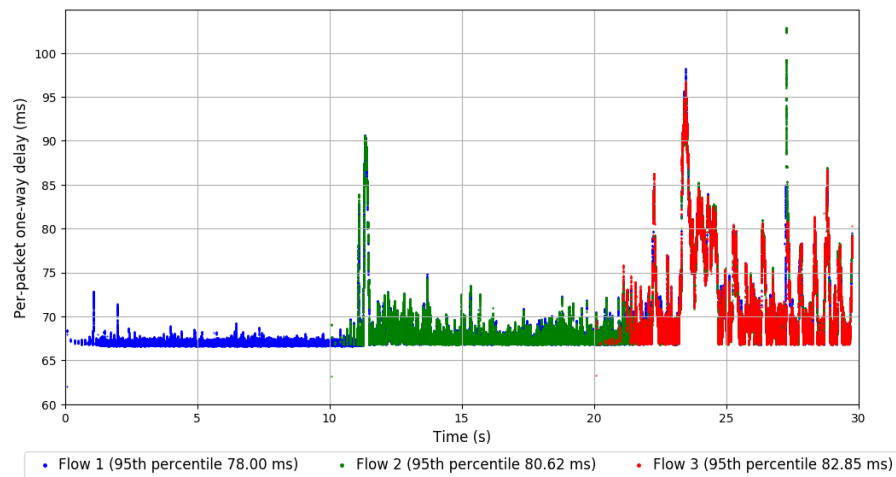
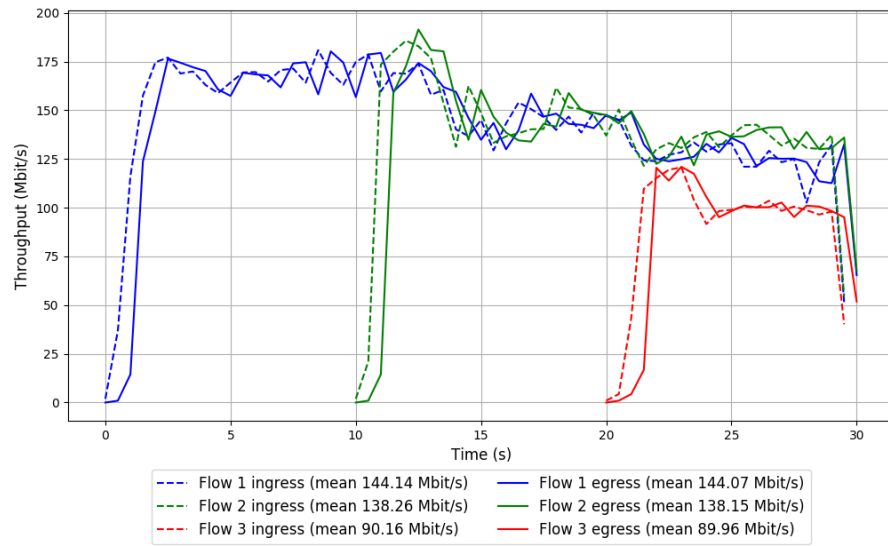
-- Flow 3:

Average throughput: 89.96 Mbit/s

95th percentile per-packet one-way delay: 82.853 ms

Loss rate: 0.18%

Run 5: Report of Indigo — Data Link

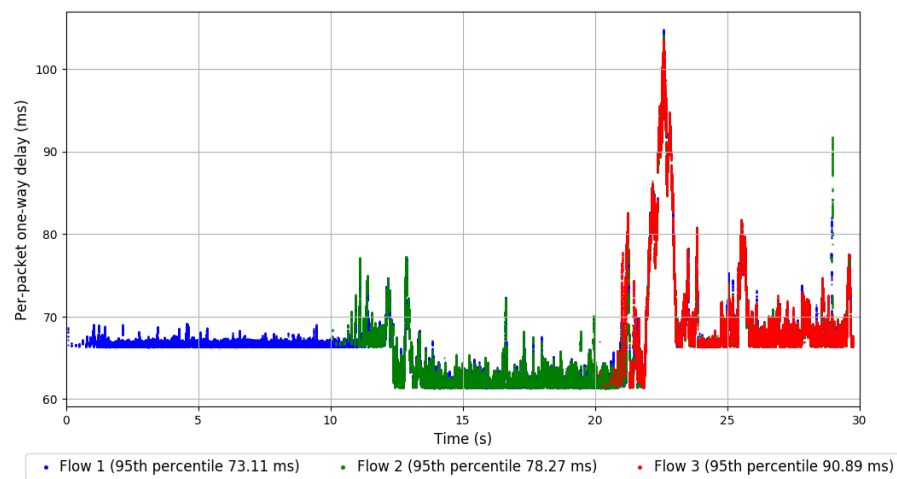
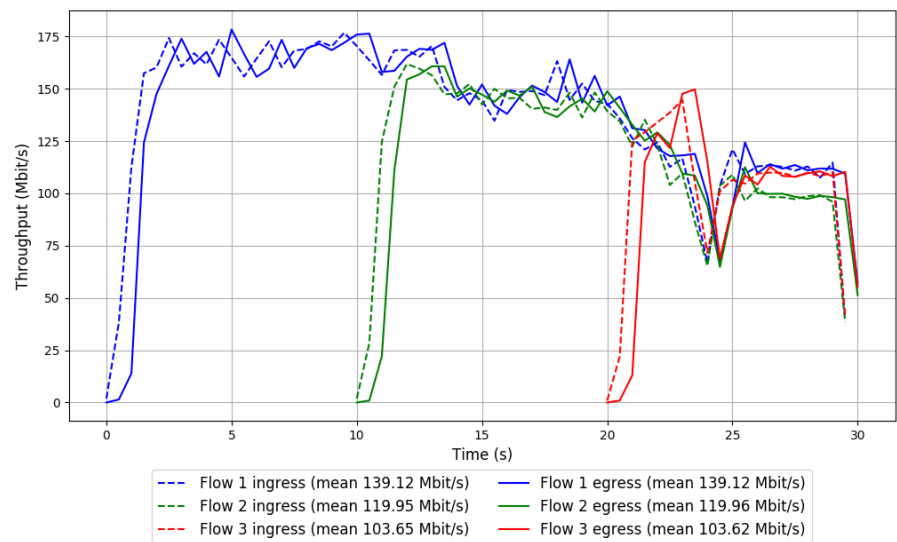


Run 6: Statistics of Indigo

Start at: 2018-05-23 01:32:24
End at: 2018-05-23 01:32:54
Local clock offset: 0.256 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2018-05-23 04:44:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 252.13 Mbit/s
95th percentile per-packet one-way delay: 78.490 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 139.12 Mbit/s
95th percentile per-packet one-way delay: 73.106 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 119.96 Mbit/s
95th percentile per-packet one-way delay: 78.274 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 103.62 Mbit/s
95th percentile per-packet one-way delay: 90.888 ms
Loss rate: 0.00%

Run 6: Report of Indigo — Data Link

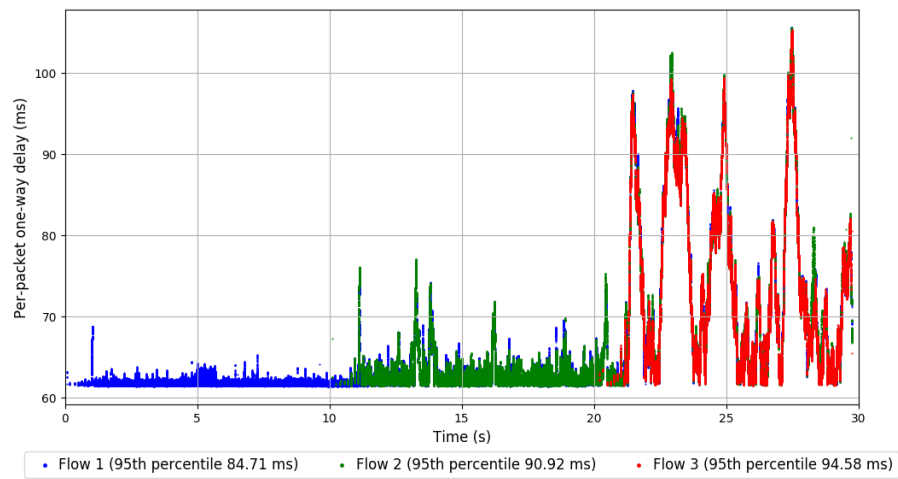
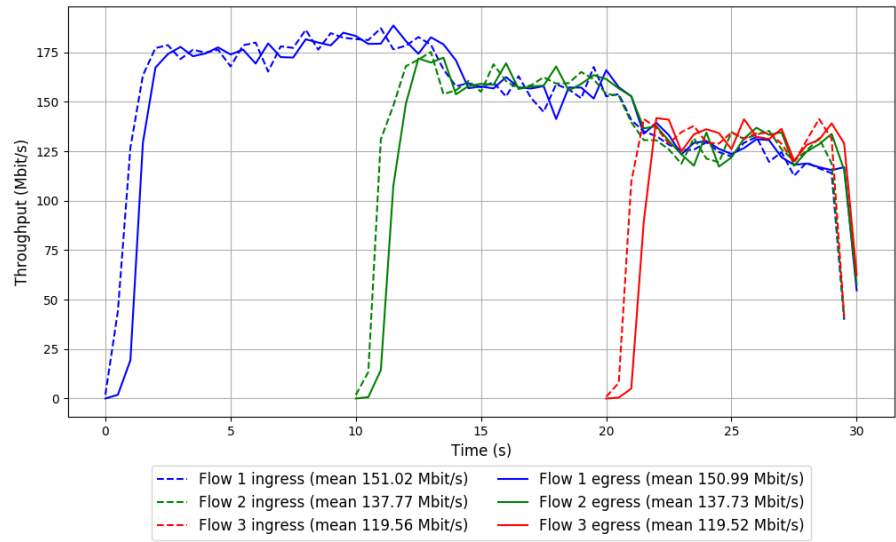


Run 7: Statistics of Indigo

Start at: 2018-05-23 01:54:17
End at: 2018-05-23 01:54:47
Local clock offset: 0.217 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-05-23 04:44:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 280.57 Mbit/s
95th percentile per-packet one-way delay: 90.701 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 150.99 Mbit/s
95th percentile per-packet one-way delay: 84.714 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 137.73 Mbit/s
95th percentile per-packet one-way delay: 90.920 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 119.52 Mbit/s
95th percentile per-packet one-way delay: 94.576 ms
Loss rate: 0.00%

Run 7: Report of Indigo — Data Link

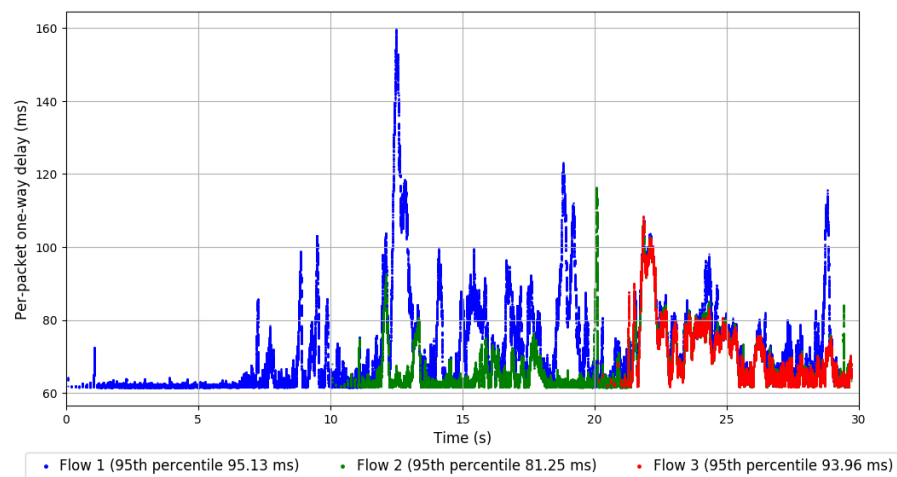
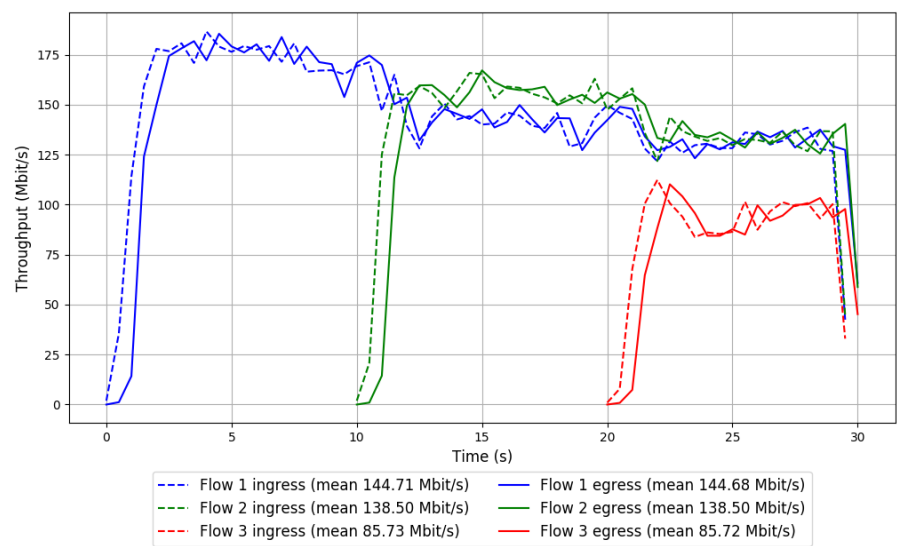


Run 8: Statistics of Indigo

Start at: 2018-05-23 02:16:21
End at: 2018-05-23 02:16:51
Local clock offset: -0.04 ms
Remote clock offset: -0.081 ms

Below is generated by plot.py at 2018-05-23 04:44:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 264.06 Mbit/s
95th percentile per-packet one-way delay: 92.322 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 144.68 Mbit/s
95th percentile per-packet one-way delay: 95.131 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 138.50 Mbit/s
95th percentile per-packet one-way delay: 81.251 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 85.72 Mbit/s
95th percentile per-packet one-way delay: 93.961 ms
Loss rate: 0.01%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-05-23 02:38:43

End at: 2018-05-23 02:39:13

Local clock offset: 0.237 ms

Remote clock offset: 0.037 ms

Below is generated by plot.py at 2018-05-23 04:44:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 277.62 Mbit/s

95th percentile per-packet one-way delay: 95.461 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 147.10 Mbit/s

95th percentile per-packet one-way delay: 92.931 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 144.06 Mbit/s

95th percentile per-packet one-way delay: 95.309 ms

Loss rate: 0.02%

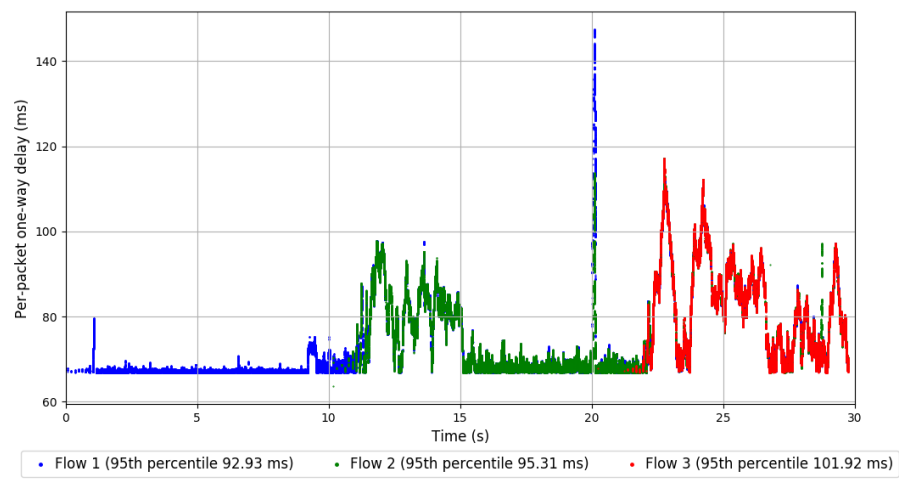
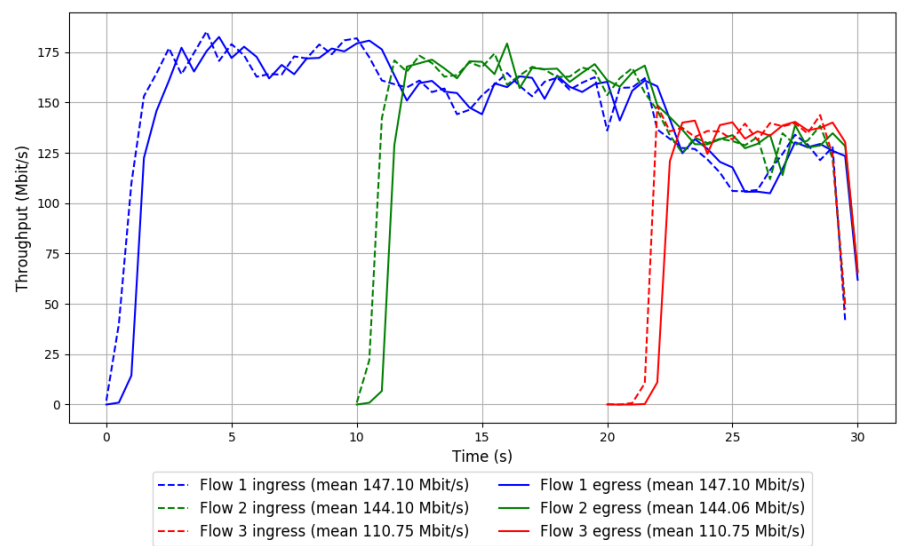
-- Flow 3:

Average throughput: 110.75 Mbit/s

95th percentile per-packet one-way delay: 101.925 ms

Loss rate: 0.02%

Run 9: Report of Indigo — Data Link

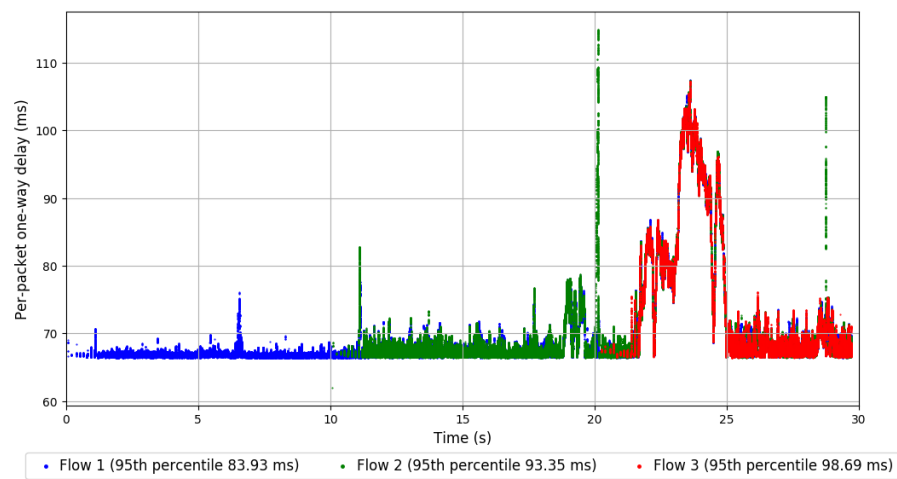
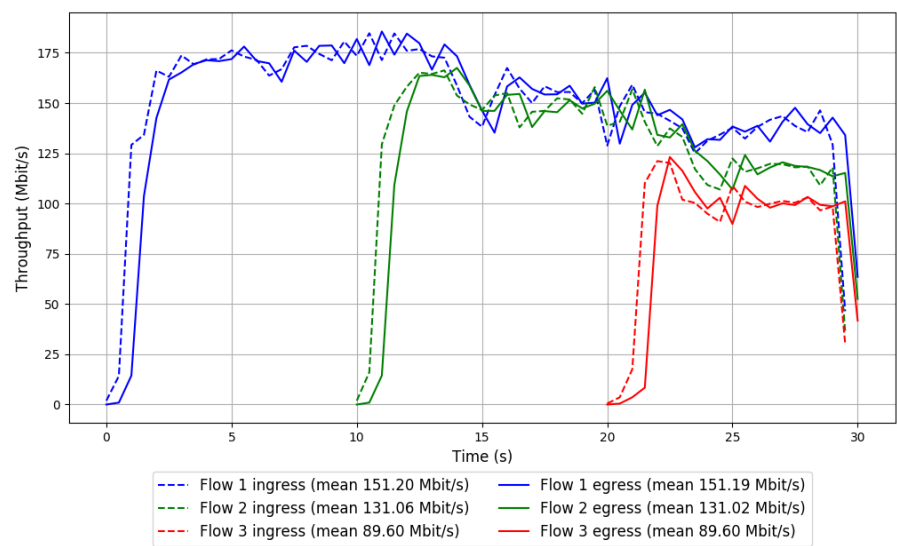


Run 10: Statistics of Indigo

Start at: 2018-05-23 03:00:46
End at: 2018-05-23 03:01:16
Local clock offset: 0.638 ms
Remote clock offset: -0.289 ms

Below is generated by plot.py at 2018-05-23 04:44:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 266.60 Mbit/s
95th percentile per-packet one-way delay: 92.259 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 151.19 Mbit/s
95th percentile per-packet one-way delay: 83.933 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 131.02 Mbit/s
95th percentile per-packet one-way delay: 93.348 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 89.60 Mbit/s
95th percentile per-packet one-way delay: 98.688 ms
Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

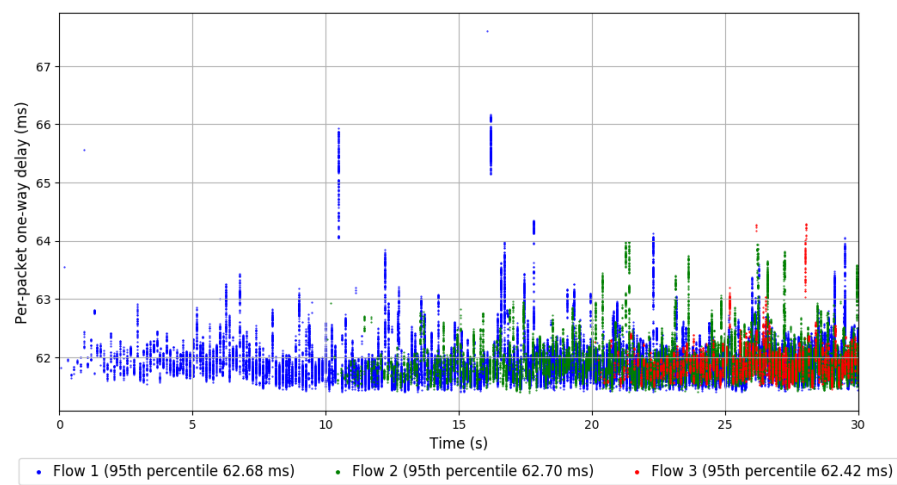
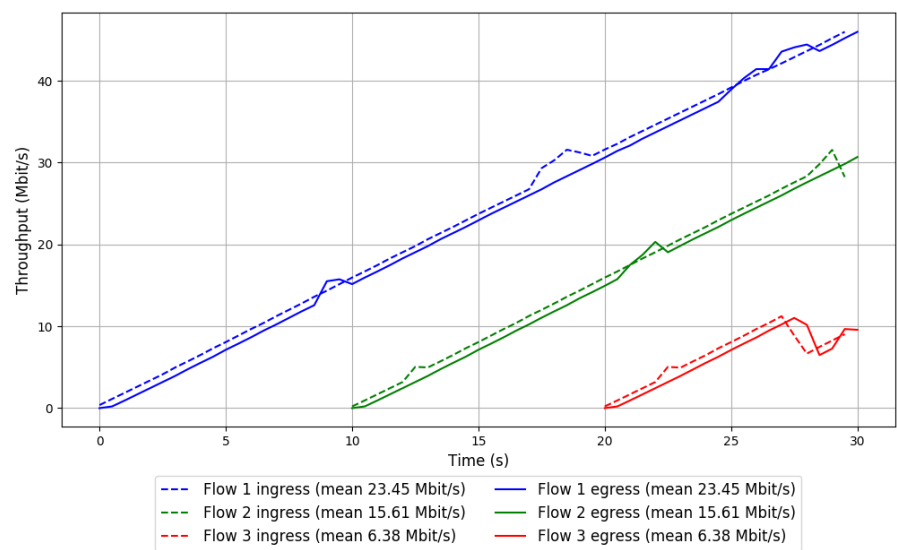


Run 1: Statistics of LEDBAT

Start at: 2018-05-22 23:46:19
End at: 2018-05-22 23:46:49
Local clock offset: 0.0 ms
Remote clock offset: -0.118 ms

Below is generated by plot.py at 2018-05-23 04:44:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 35.92 Mbit/s
95th percentile per-packet one-way delay: 62.676 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 23.45 Mbit/s
95th percentile per-packet one-way delay: 62.683 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 15.61 Mbit/s
95th percentile per-packet one-way delay: 62.697 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.38 Mbit/s
95th percentile per-packet one-way delay: 62.424 ms
Loss rate: 0.02%

Run 1: Report of LEDBAT — Data Link

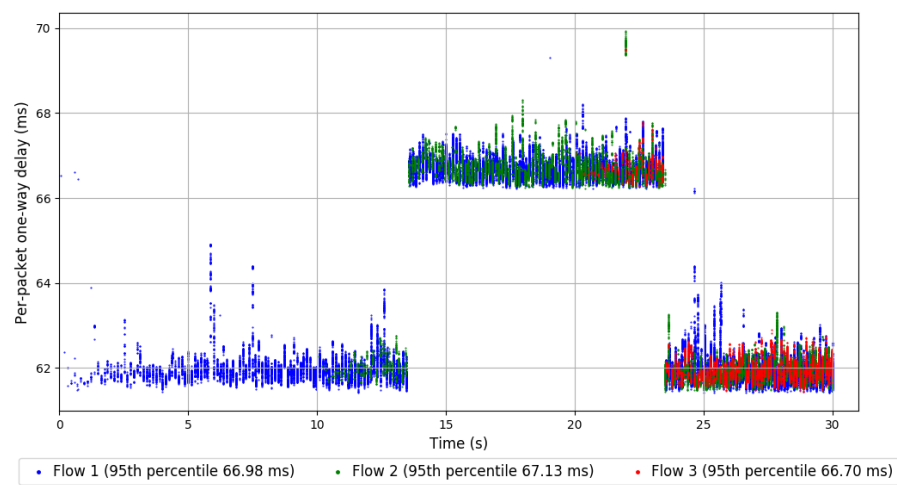
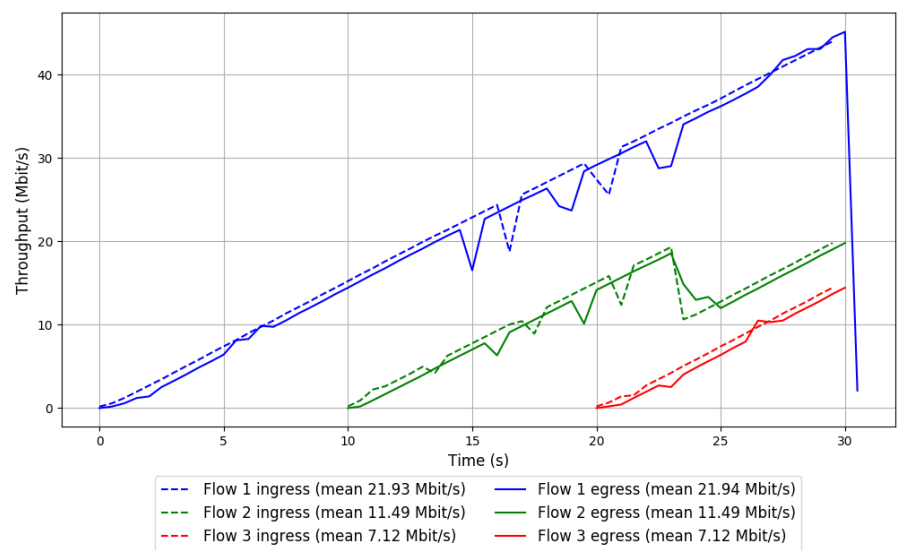


Run 2: Statistics of LEDBAT

Start at: 2018-05-23 00:08:33
End at: 2018-05-23 00:09:03
Local clock offset: 0.059 ms
Remote clock offset: -0.172 ms

Below is generated by plot.py at 2018-05-23 04:44:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 31.93 Mbit/s
95th percentile per-packet one-way delay: 67.003 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 21.94 Mbit/s
95th percentile per-packet one-way delay: 66.980 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.49 Mbit/s
95th percentile per-packet one-way delay: 67.132 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.12 Mbit/s
95th percentile per-packet one-way delay: 66.705 ms
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

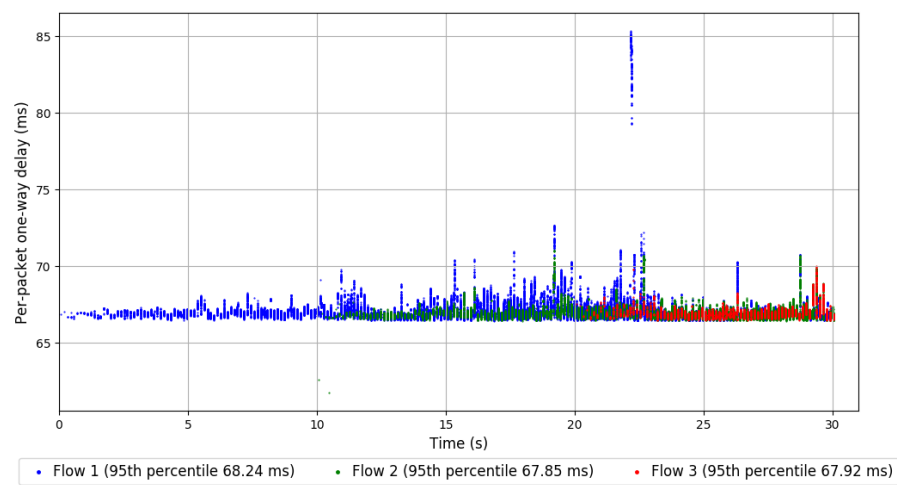
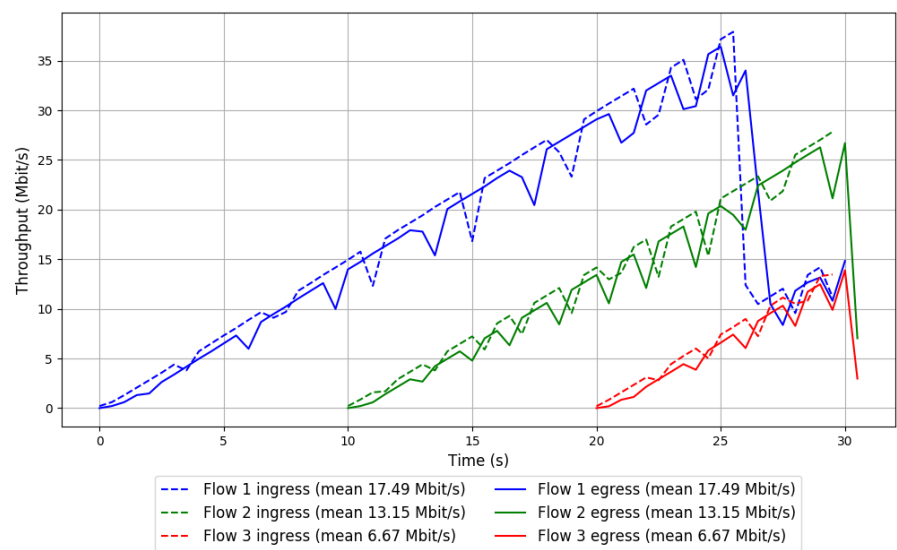


Run 3: Statistics of LEDBAT

Start at: 2018-05-23 00:31:00
End at: 2018-05-23 00:31:30
Local clock offset: 0.303 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2018-05-23 04:44:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 28.40 Mbit/s
95th percentile per-packet one-way delay: 68.150 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 17.49 Mbit/s
95th percentile per-packet one-way delay: 68.243 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.15 Mbit/s
95th percentile per-packet one-way delay: 67.846 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.67 Mbit/s
95th percentile per-packet one-way delay: 67.925 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-05-23 00:53:24

End at: 2018-05-23 00:53:54

Local clock offset: 0.195 ms

Remote clock offset: 0.19 ms

Below is generated by plot.py at 2018-05-23 04:44:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 32.86 Mbit/s

95th percentile per-packet one-way delay: 68.138 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 21.20 Mbit/s

95th percentile per-packet one-way delay: 68.027 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 14.00 Mbit/s

95th percentile per-packet one-way delay: 68.371 ms

Loss rate: 0.00%

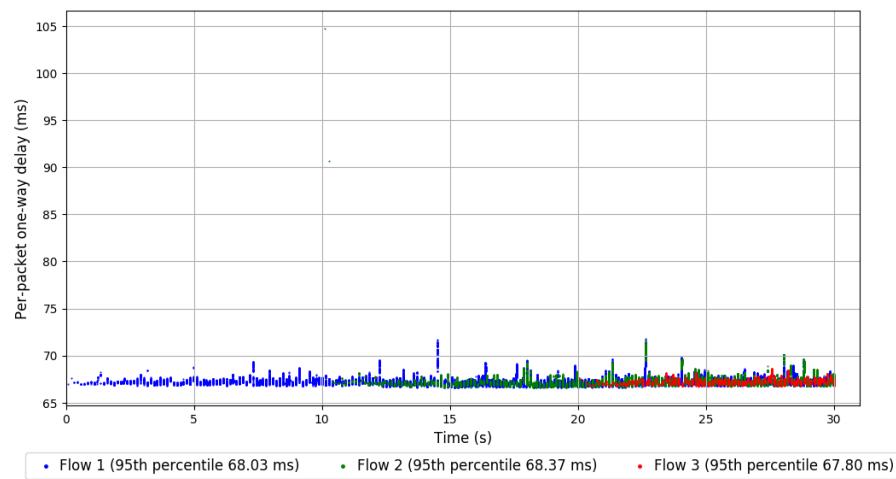
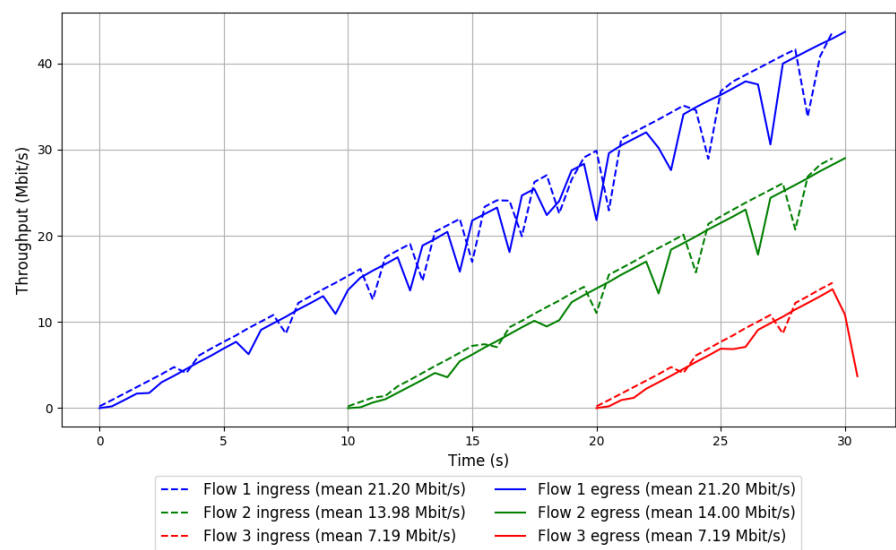
-- Flow 3:

Average throughput: 7.19 Mbit/s

95th percentile per-packet one-way delay: 67.804 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

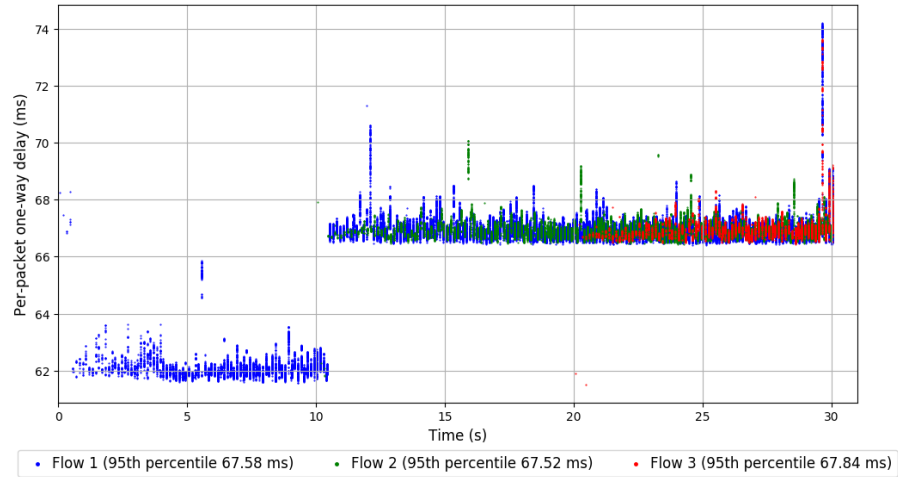
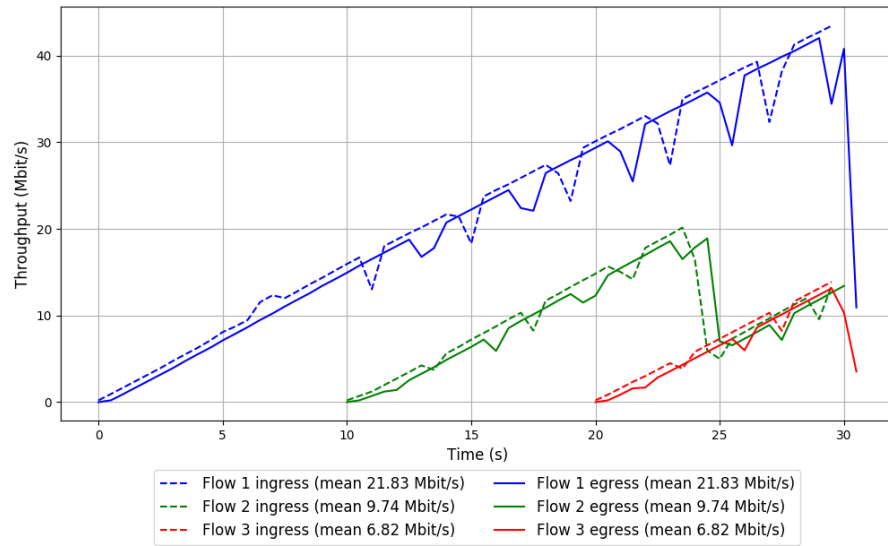


Run 5: Statistics of LEDBAT

Start at: 2018-05-23 01:16:06
End at: 2018-05-23 01:16:36
Local clock offset: 0.033 ms
Remote clock offset: -0.048 ms

Below is generated by plot.py at 2018-05-23 04:44:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 30.56 Mbit/s
95th percentile per-packet one-way delay: 67.582 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 21.83 Mbit/s
95th percentile per-packet one-way delay: 67.584 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 9.74 Mbit/s
95th percentile per-packet one-way delay: 67.519 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 6.82 Mbit/s
95th percentile per-packet one-way delay: 67.840 ms
Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-05-23 01:38:32

End at: 2018-05-23 01:39:02

Local clock offset: 0.194 ms

Remote clock offset: 0.176 ms

Below is generated by plot.py at 2018-05-23 04:44:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 34.16 Mbit/s

95th percentile per-packet one-way delay: 67.862 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 21.87 Mbit/s

95th percentile per-packet one-way delay: 67.881 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 15.02 Mbit/s

95th percentile per-packet one-way delay: 67.734 ms

Loss rate: 0.00%

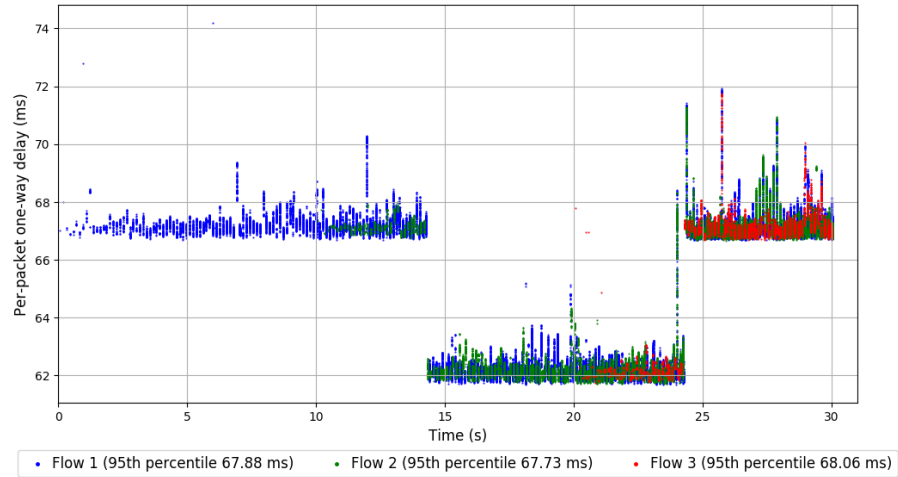
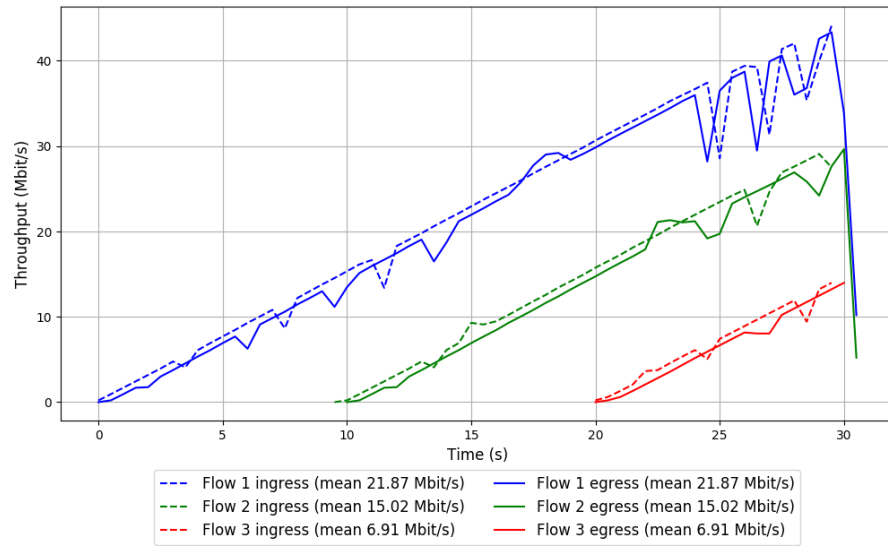
-- Flow 3:

Average throughput: 6.91 Mbit/s

95th percentile per-packet one-way delay: 68.058 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link

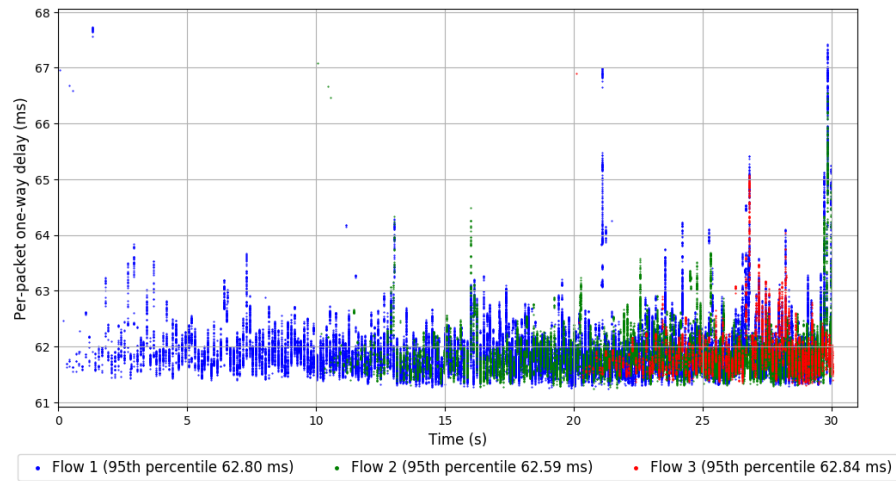
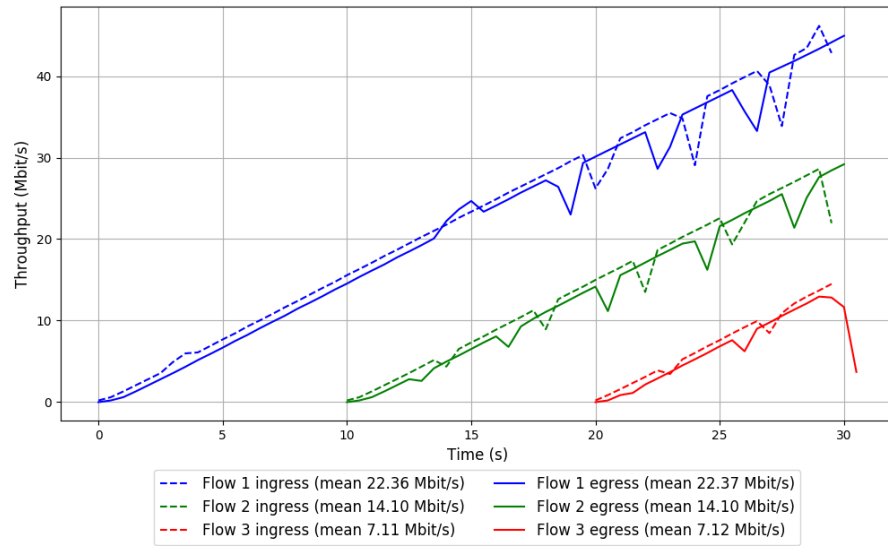


Run 7: Statistics of LEDBAT

Start at: 2018-05-23 02:00:35
End at: 2018-05-23 02:01:05
Local clock offset: 0.2 ms
Remote clock offset: -0.151 ms

Below is generated by plot.py at 2018-05-23 04:44:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.05 Mbit/s
95th percentile per-packet one-way delay: 62.764 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 22.37 Mbit/s
95th percentile per-packet one-way delay: 62.804 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 14.10 Mbit/s
95th percentile per-packet one-way delay: 62.590 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.12 Mbit/s
95th percentile per-packet one-way delay: 62.842 ms
Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-05-23 02:22:43

End at: 2018-05-23 02:23:13

Local clock offset: -0.119 ms

Remote clock offset: 0.134 ms

Below is generated by plot.py at 2018-05-23 04:44:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 28.42 Mbit/s

95th percentile per-packet one-way delay: 68.267 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 17.34 Mbit/s

95th percentile per-packet one-way delay: 68.233 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 13.17 Mbit/s

95th percentile per-packet one-way delay: 68.578 ms

Loss rate: 0.00%

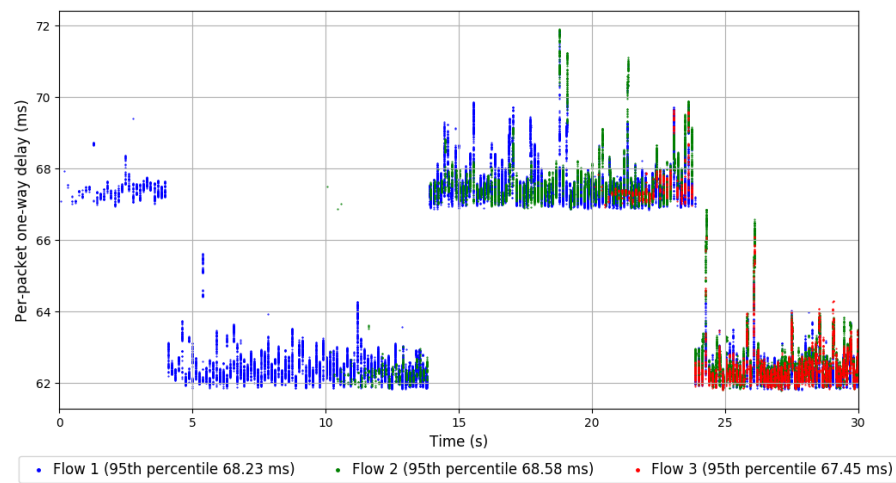
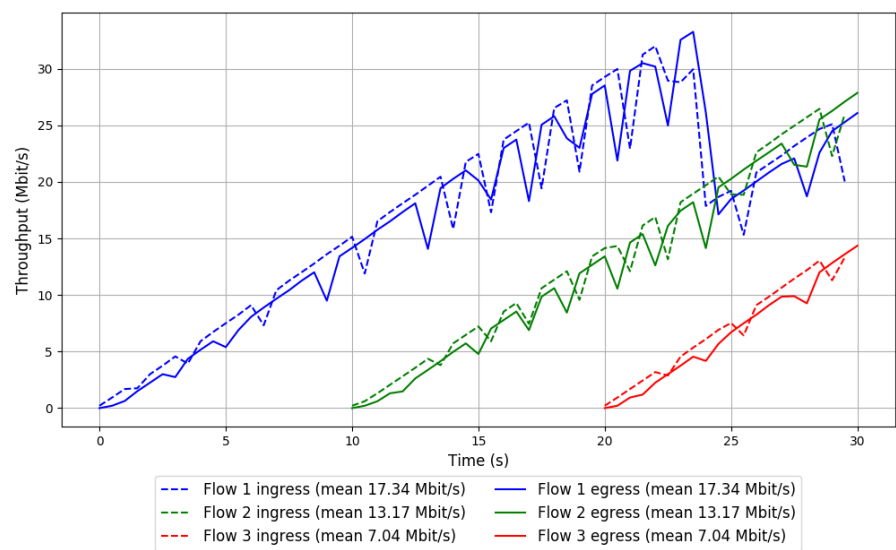
-- Flow 3:

Average throughput: 7.04 Mbit/s

95th percentile per-packet one-way delay: 67.455 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link

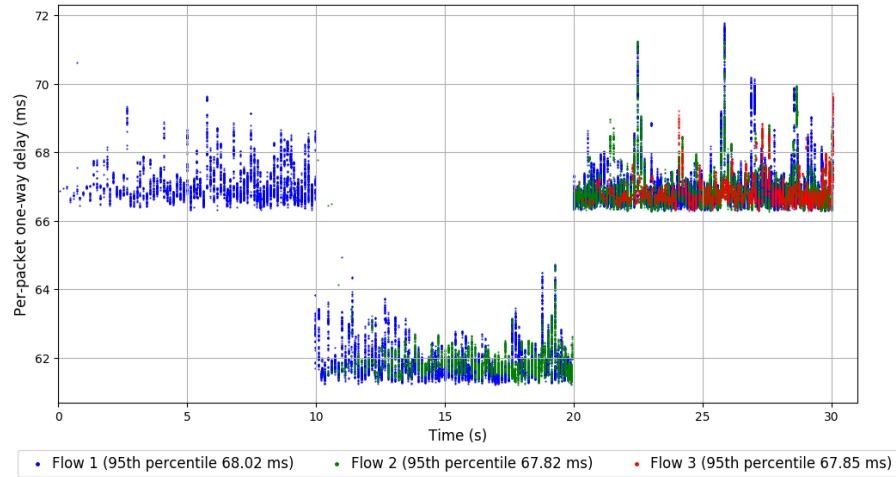
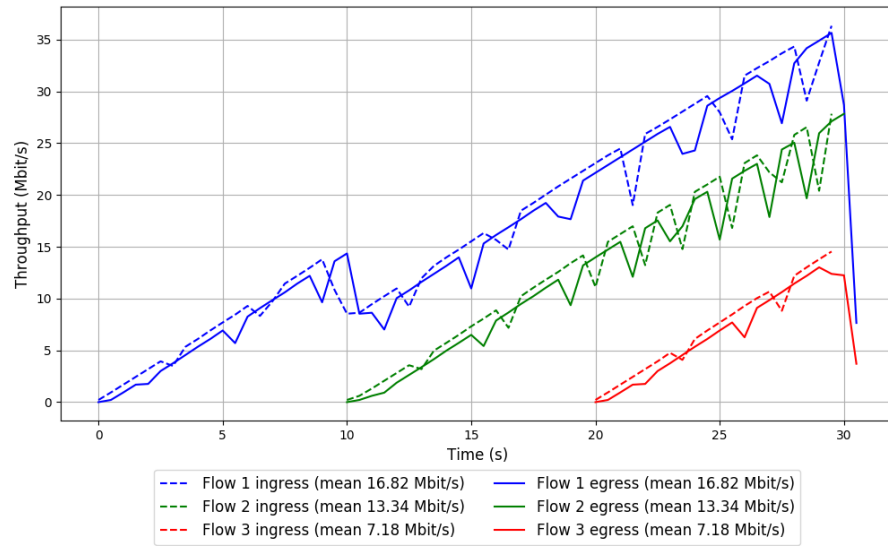


Run 9: Statistics of LEDBAT

Start at: 2018-05-23 02:44:47
End at: 2018-05-23 02:45:17
Local clock offset: 0.484 ms
Remote clock offset: -0.336 ms

Below is generated by plot.py at 2018-05-23 04:44:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 28.07 Mbit/s
95th percentile per-packet one-way delay: 67.954 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 16.82 Mbit/s
95th percentile per-packet one-way delay: 68.023 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.34 Mbit/s
95th percentile per-packet one-way delay: 67.818 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.18 Mbit/s
95th percentile per-packet one-way delay: 67.848 ms
Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link

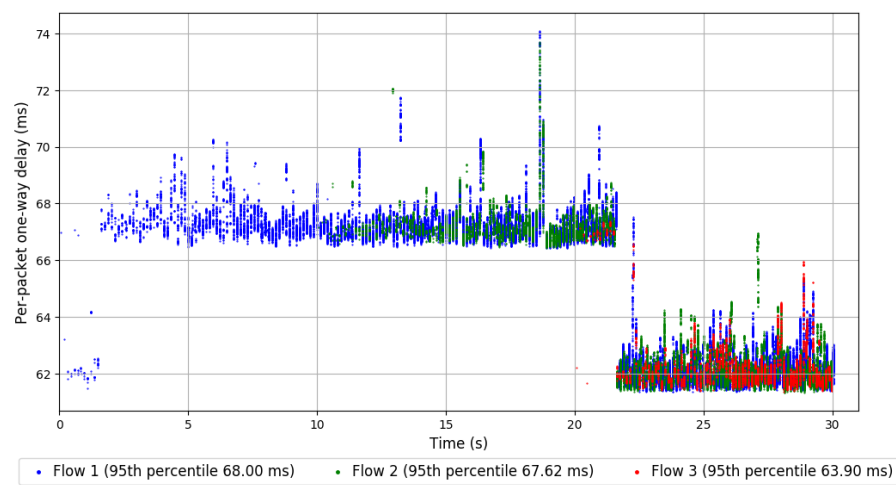
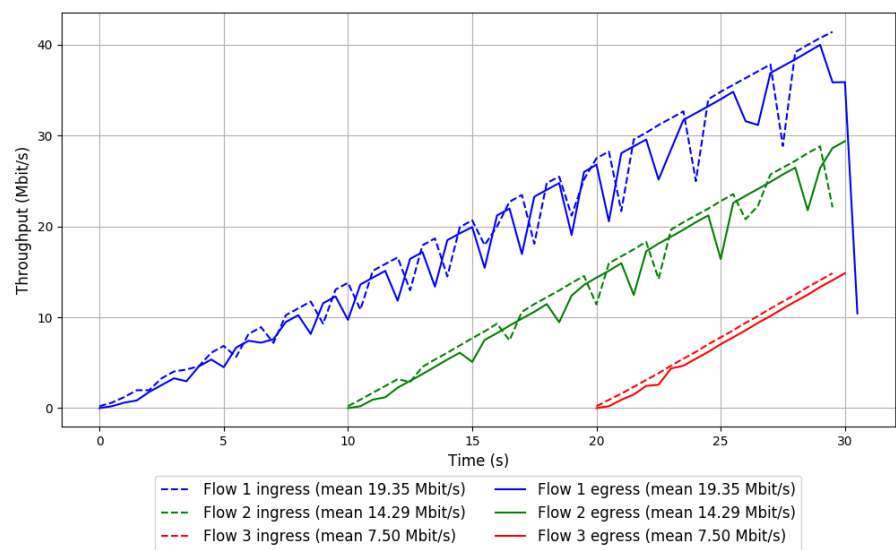


Run 10: Statistics of LEDBAT

Start at: 2018-05-23 03:07:05
End at: 2018-05-23 03:07:35
Local clock offset: 0.628 ms
Remote clock offset: -0.364 ms

Below is generated by plot.py at 2018-05-23 04:44:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 31.30 Mbit/s
95th percentile per-packet one-way delay: 67.832 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 19.35 Mbit/s
95th percentile per-packet one-way delay: 67.998 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 14.29 Mbit/s
95th percentile per-packet one-way delay: 67.625 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.50 Mbit/s
95th percentile per-packet one-way delay: 63.904 ms
Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-05-22 23:47:31

End at: 2018-05-22 23:48:01

Local clock offset: -0.009 ms

Remote clock offset: 0.147 ms

Below is generated by plot.py at 2018-05-23 04:44:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 323.52 Mbit/s

95th percentile per-packet one-way delay: 102.587 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 299.16 Mbit/s

95th percentile per-packet one-way delay: 102.680 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 32.71 Mbit/s

95th percentile per-packet one-way delay: 100.416 ms

Loss rate: 0.00%

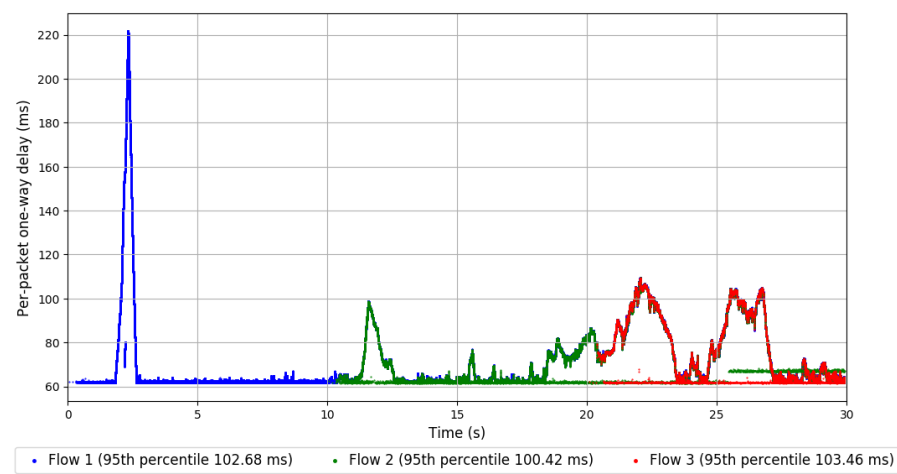
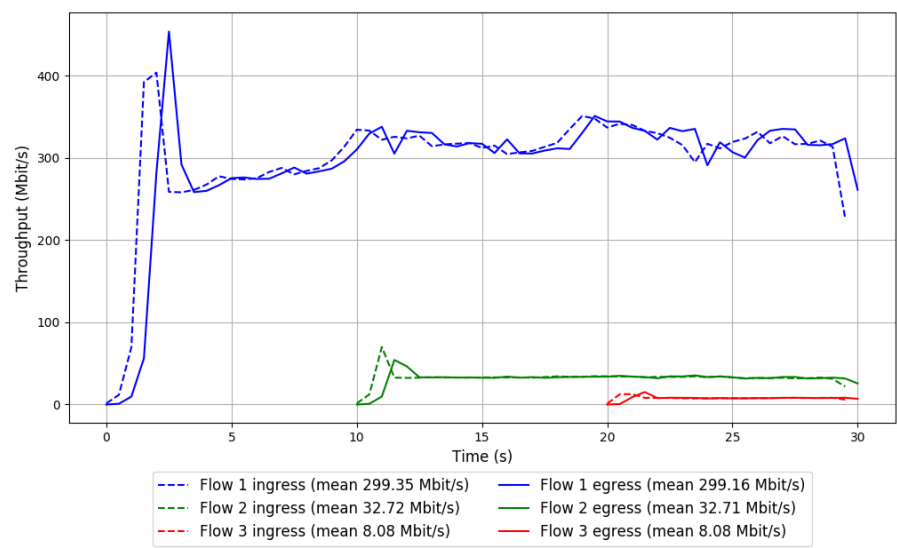
-- Flow 3:

Average throughput: 8.08 Mbit/s

95th percentile per-packet one-way delay: 103.460 ms

Loss rate: 0.02%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-23 00:09:45

End at: 2018-05-23 00:10:15

Local clock offset: 0.058 ms

Remote clock offset: 0.181 ms

Below is generated by plot.py at 2018-05-23 04:44:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 318.23 Mbit/s

95th percentile per-packet one-way delay: 133.669 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 273.78 Mbit/s

95th percentile per-packet one-way delay: 133.914 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 64.83 Mbit/s

95th percentile per-packet one-way delay: 132.917 ms

Loss rate: 0.02%

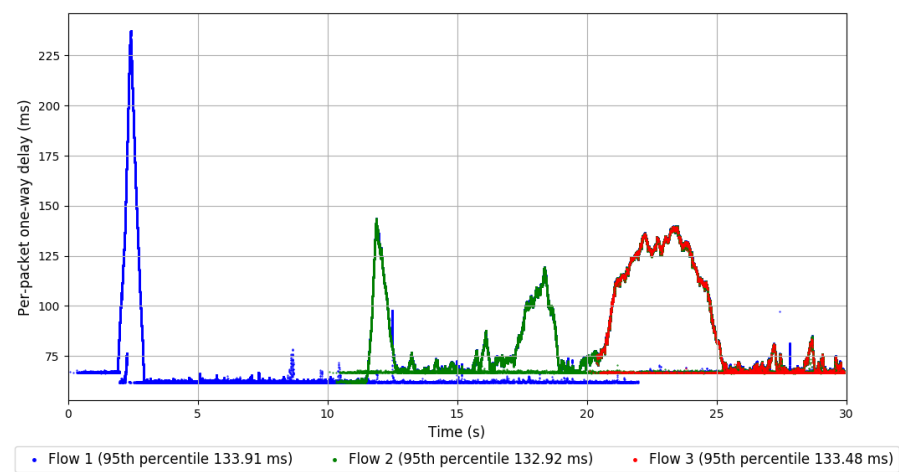
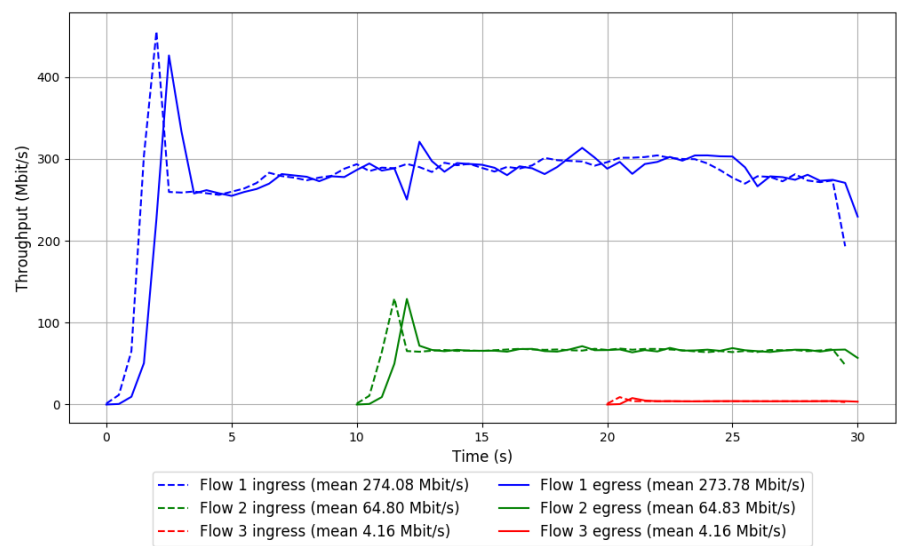
-- Flow 3:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 133.480 ms

Loss rate: 0.03%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-05-23 00:32:11

End at: 2018-05-23 00:32:41

Local clock offset: 0.221 ms

Remote clock offset: 0.046 ms

Below is generated by plot.py at 2018-05-23 04:44:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 298.97 Mbit/s

95th percentile per-packet one-way delay: 136.246 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 249.70 Mbit/s

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

Loss rate: 0.15%

-- Flow 2:

Average throughput: 66.16 Mbit/s

95th percentile per-packet one-way delay: 133.654 ms

Loss rate: 0.00%

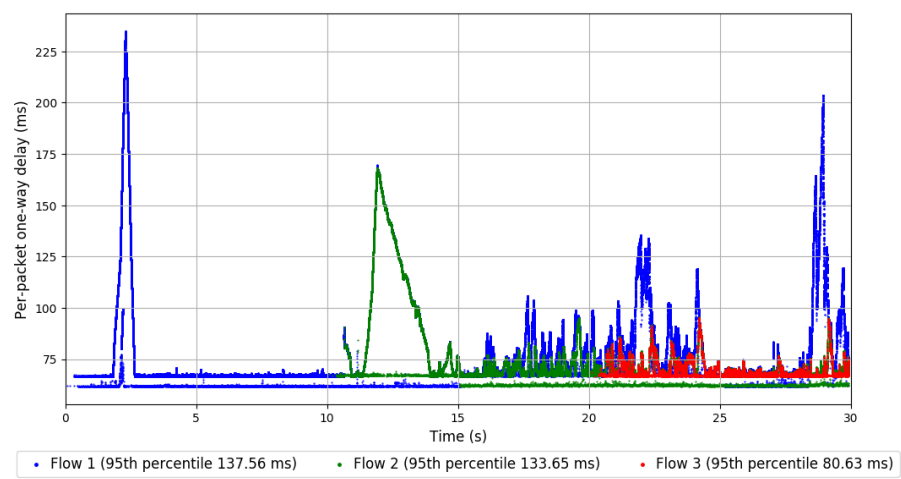
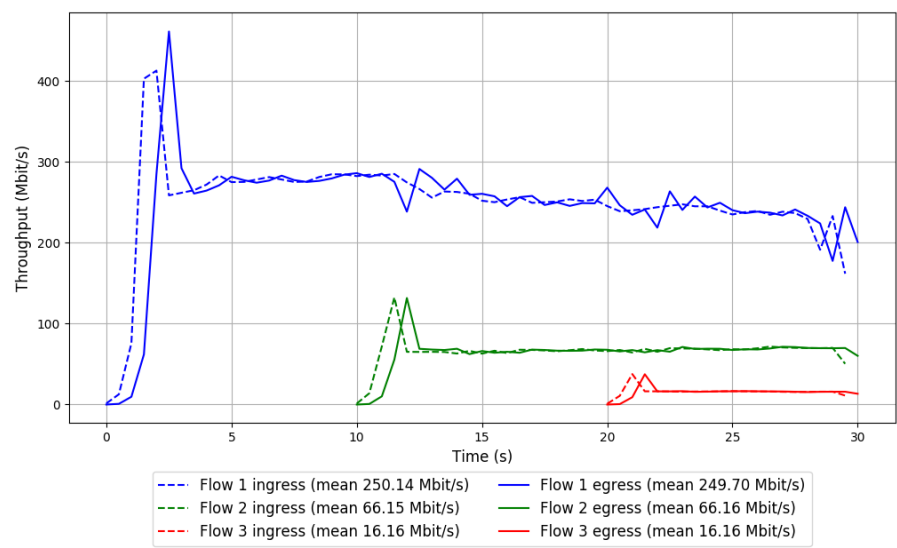
-- Flow 3:

Average throughput: 16.16 Mbit/s

95th percentile per-packet one-way delay: 80.626 ms

Loss rate: 0.00%

Run 3: Report of PCC-Allegro — Data Link

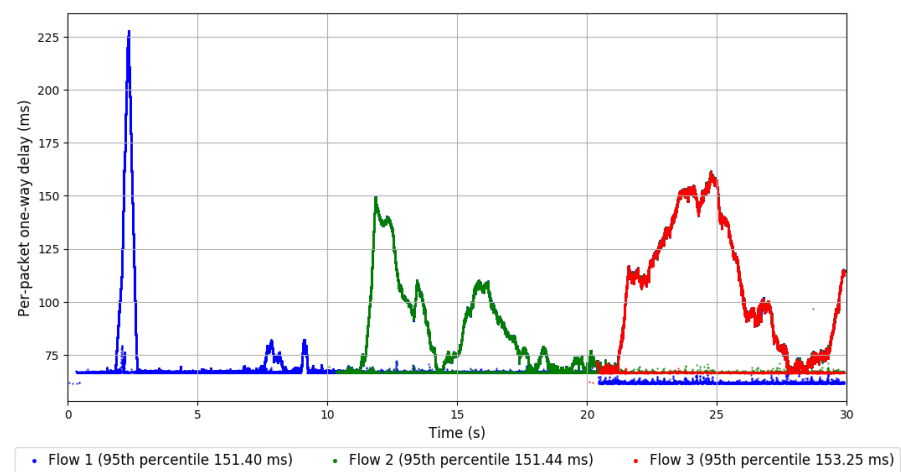
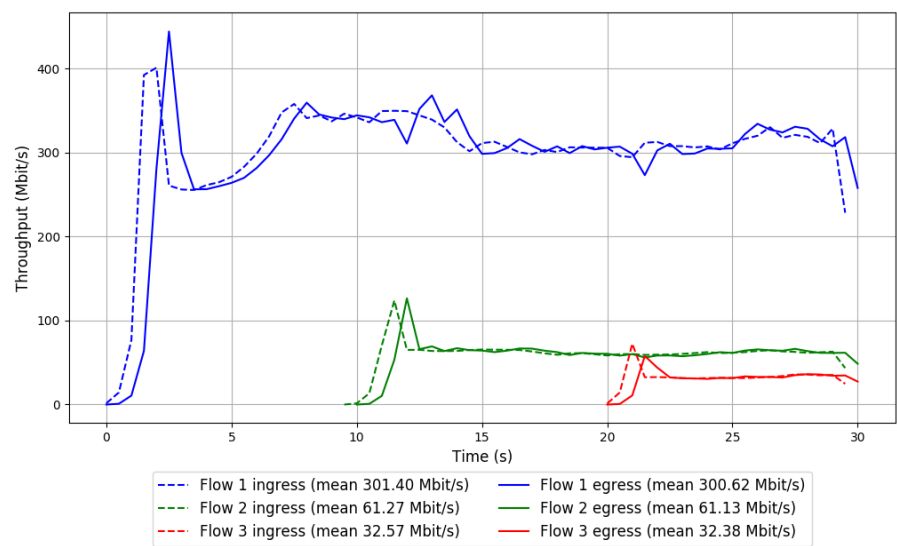


Run 4: Statistics of PCC-Allegro

Start at: 2018-05-23 00:54:36
End at: 2018-05-23 00:55:06
Local clock offset: 0.221 ms
Remote clock offset: -0.074 ms

Below is generated by plot.py at 2018-05-23 04:44:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 351.92 Mbit/s
95th percentile per-packet one-way delay: 151.575 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 300.62 Mbit/s
95th percentile per-packet one-way delay: 151.403 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 61.13 Mbit/s
95th percentile per-packet one-way delay: 151.445 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 32.38 Mbit/s
95th percentile per-packet one-way delay: 153.250 ms
Loss rate: 0.56%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-05-23 01:17:18

End at: 2018-05-23 01:17:48

Local clock offset: -0.01 ms

Remote clock offset: 0.371 ms

Below is generated by plot.py at 2018-05-23 04:44:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 341.41 Mbit/s

95th percentile per-packet one-way delay: 171.735 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 248.79 Mbit/s

95th percentile per-packet one-way delay: 172.274 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 131.21 Mbit/s

95th percentile per-packet one-way delay: 171.416 ms

Loss rate: 0.20%

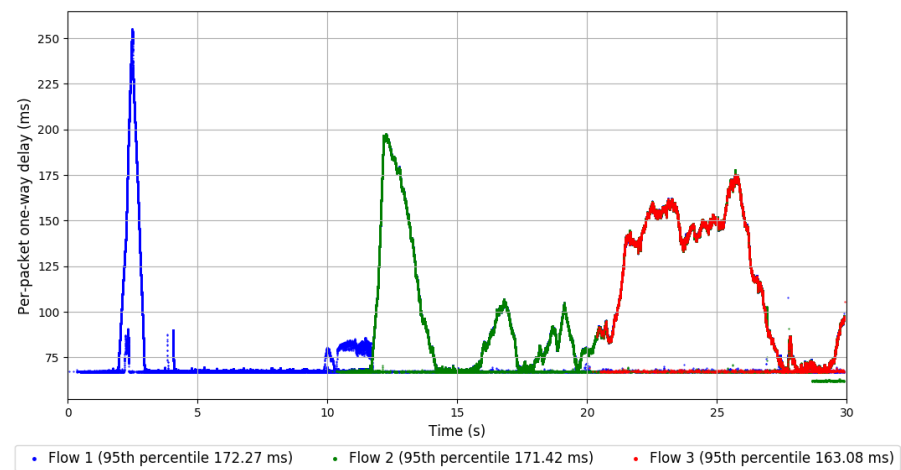
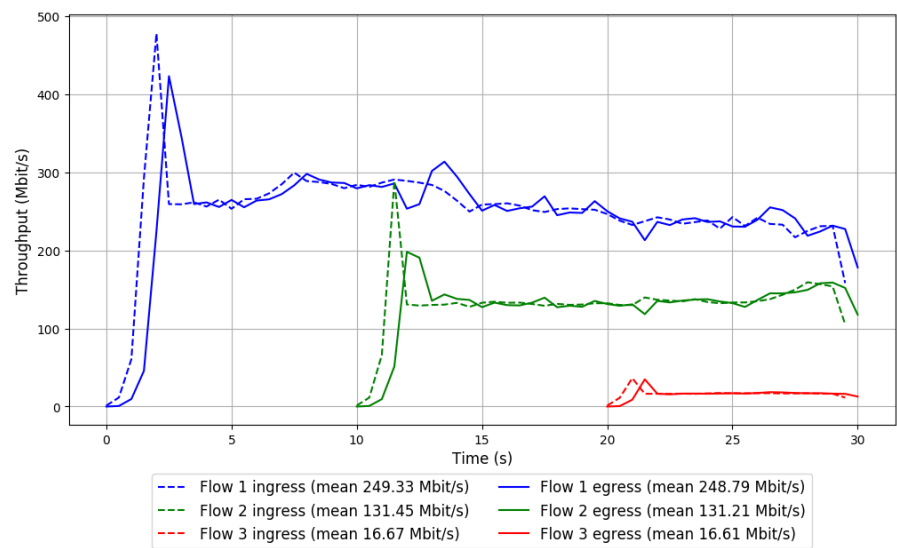
-- Flow 3:

Average throughput: 16.61 Mbit/s

95th percentile per-packet one-way delay: 163.076 ms

Loss rate: 0.33%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-05-23 01:39:45

End at: 2018-05-23 01:40:15

Local clock offset: 0.191 ms

Remote clock offset: 0.216 ms

Below is generated by plot.py at 2018-05-23 04:44:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 334.08 Mbit/s

95th percentile per-packet one-way delay: 233.078 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 322.01 Mbit/s

95th percentile per-packet one-way delay: 233.068 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 17.09 Mbit/s

95th percentile per-packet one-way delay: 233.656 ms

Loss rate: 0.15%

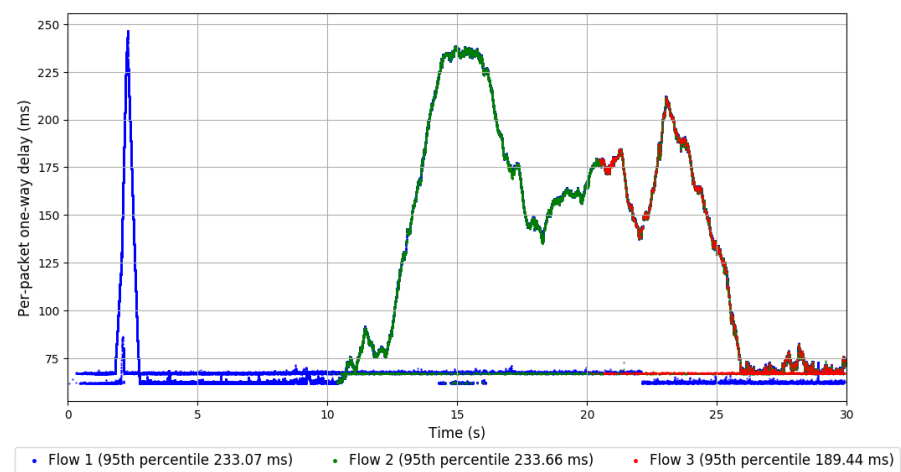
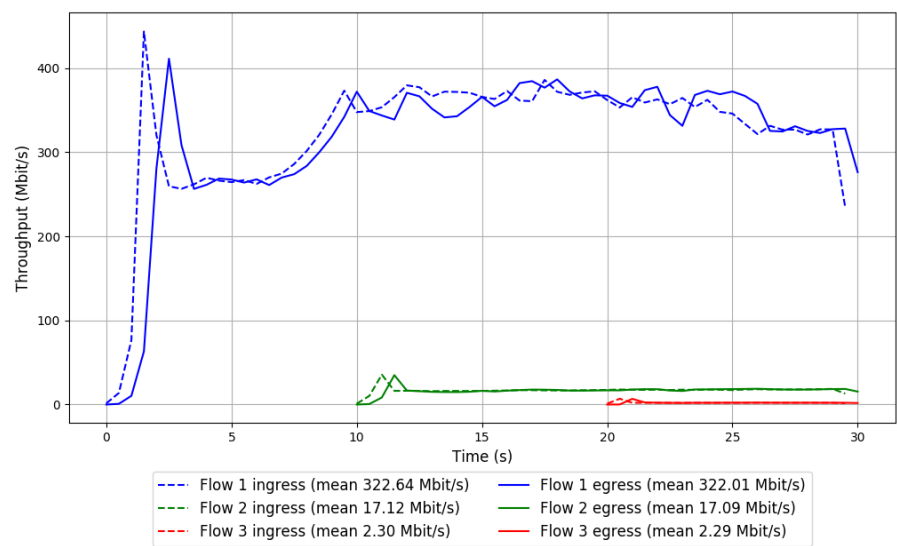
-- Flow 3:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 189.440 ms

Loss rate: 0.00%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-05-23 02:01:46

End at: 2018-05-23 02:02:16

Local clock offset: 0.215 ms

Remote clock offset: 0.258 ms

Below is generated by plot.py at 2018-05-23 04:44:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 341.64 Mbit/s

95th percentile per-packet one-way delay: 221.165 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 297.67 Mbit/s

95th percentile per-packet one-way delay: 220.795 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 63.95 Mbit/s

95th percentile per-packet one-way delay: 222.230 ms

Loss rate: 0.08%

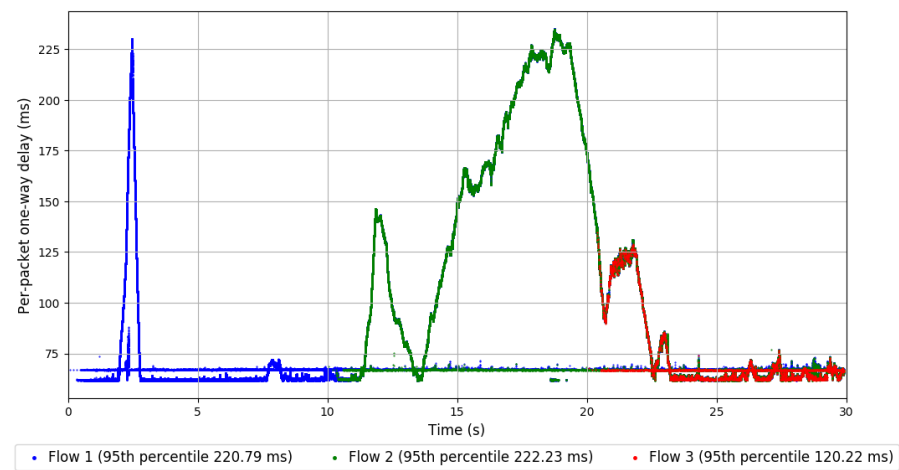
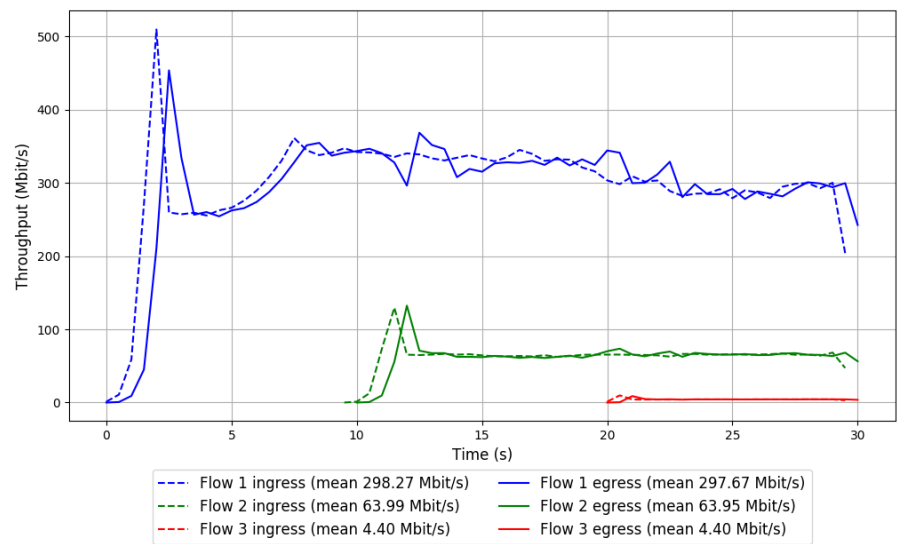
-- Flow 3:

Average throughput: 4.40 Mbit/s

95th percentile per-packet one-way delay: 120.217 ms

Loss rate: 0.00%

Run 7: Report of PCC-Allegro — Data Link

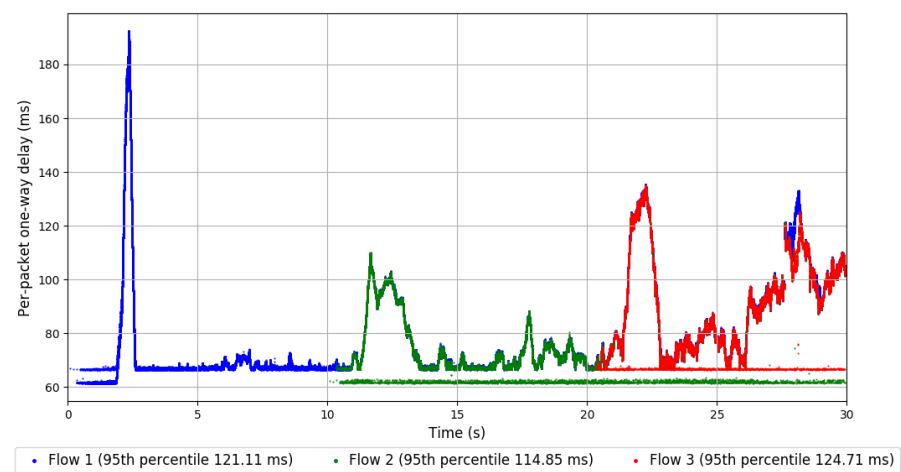
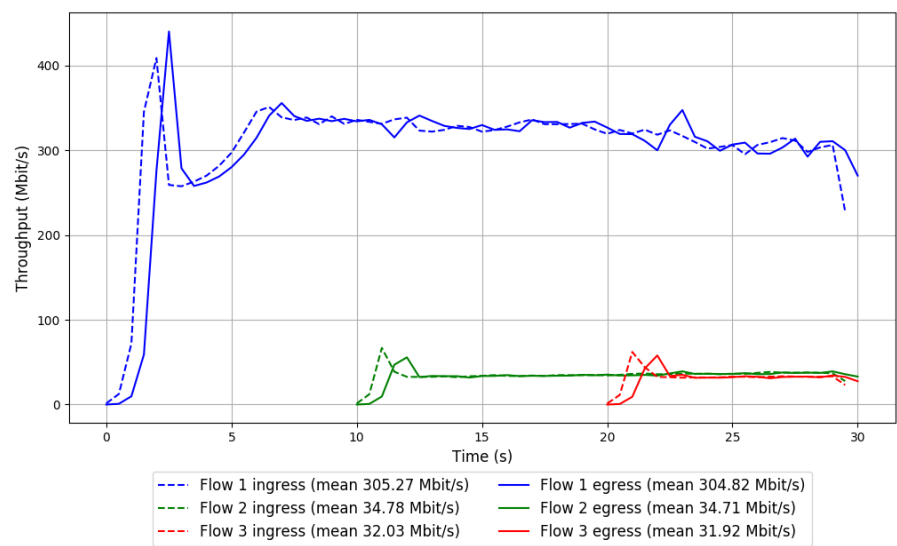


Run 8: Statistics of PCC-Allegro

Start at: 2018-05-23 02:23:54
End at: 2018-05-23 02:24:24
Local clock offset: -0.033 ms
Remote clock offset: -0.143 ms

Below is generated by plot.py at 2018-05-23 04:45:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 338.41 Mbit/s
95th percentile per-packet one-way delay: 121.152 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 304.82 Mbit/s
95th percentile per-packet one-way delay: 121.108 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 34.71 Mbit/s
95th percentile per-packet one-way delay: 114.847 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 31.92 Mbit/s
95th percentile per-packet one-way delay: 124.712 ms
Loss rate: 0.34%

Run 8: Report of PCC-Allegro — Data Link

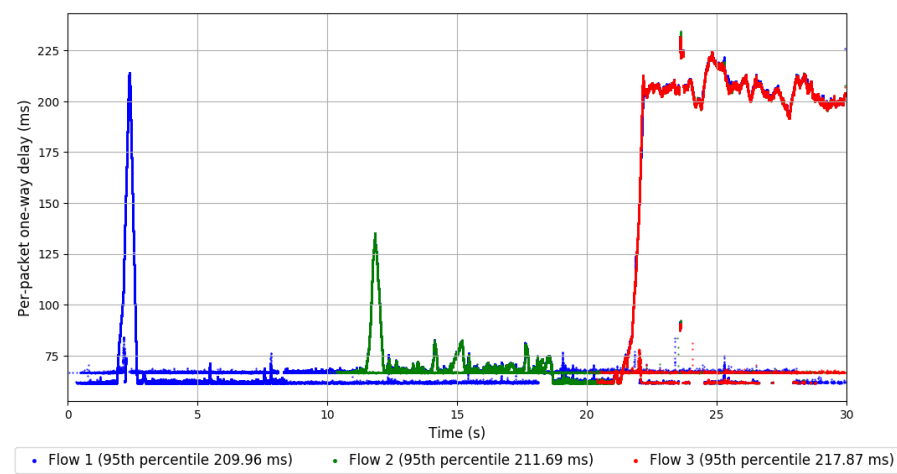
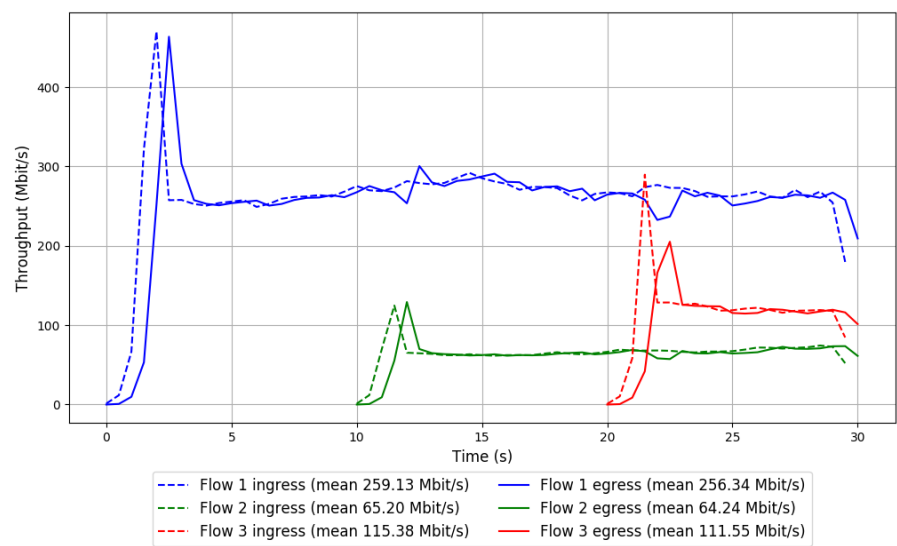


Run 9: Statistics of PCC-Allegro

Start at: 2018-05-23 02:45:58
End at: 2018-05-23 02:46:28
Local clock offset: 0.408 ms
Remote clock offset: -0.311 ms

Below is generated by plot.py at 2018-05-23 04:45:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 335.69 Mbit/s
95th percentile per-packet one-way delay: 210.828 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 256.34 Mbit/s
95th percentile per-packet one-way delay: 209.960 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 64.24 Mbit/s
95th percentile per-packet one-way delay: 211.687 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 111.55 Mbit/s
95th percentile per-packet one-way delay: 217.873 ms
Loss rate: 3.28%

Run 9: Report of PCC-Allegro — Data Link

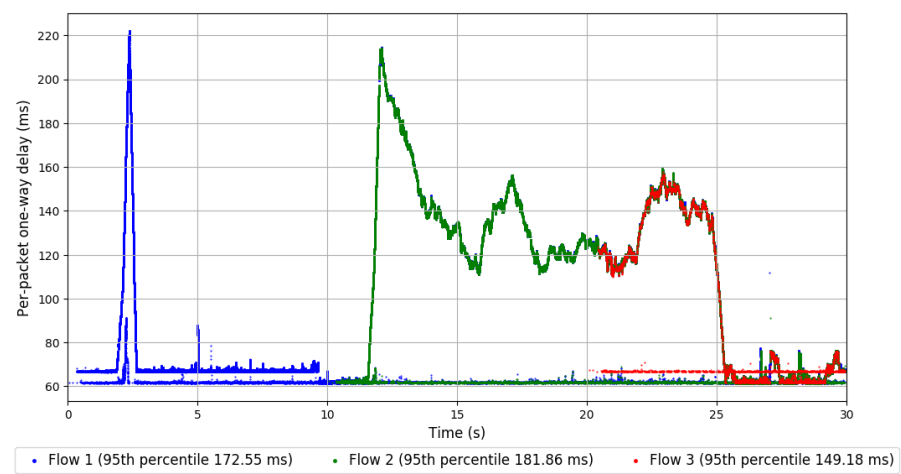
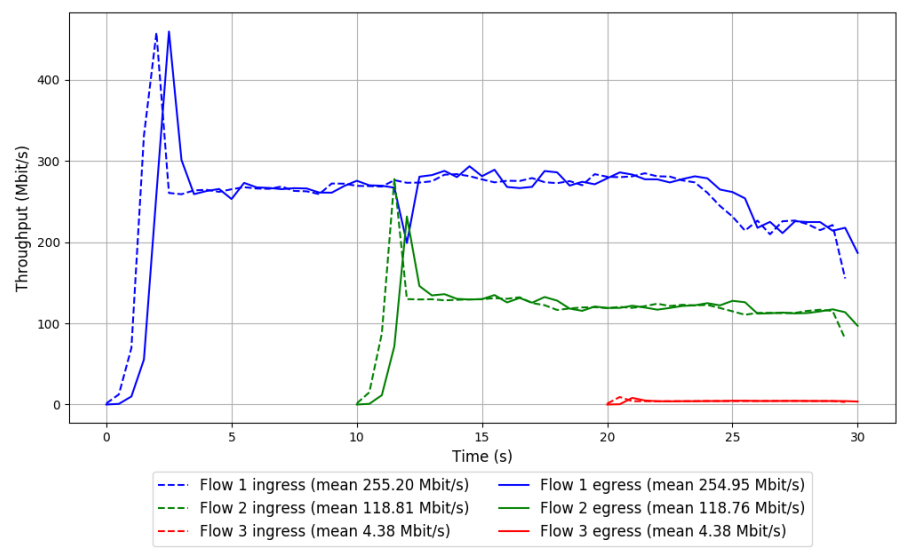


Run 10: Statistics of PCC-Allegro

Start at: 2018-05-23 03:08:17
End at: 2018-05-23 03:08:47
Local clock offset: 0.761 ms
Remote clock offset: -0.175 ms

Below is generated by plot.py at 2018-05-23 04:45:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 335.31 Mbit/s
95th percentile per-packet one-way delay: 175.602 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 254.95 Mbit/s
95th percentile per-packet one-way delay: 172.551 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 118.76 Mbit/s
95th percentile per-packet one-way delay: 181.863 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 4.38 Mbit/s
95th percentile per-packet one-way delay: 149.175 ms
Loss rate: 0.00%

Run 10: Report of PCC-Allegro — Data Link

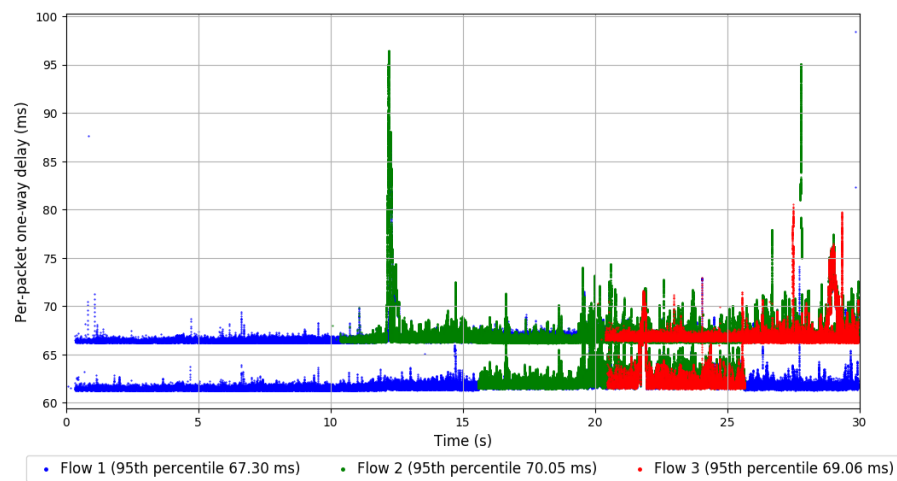
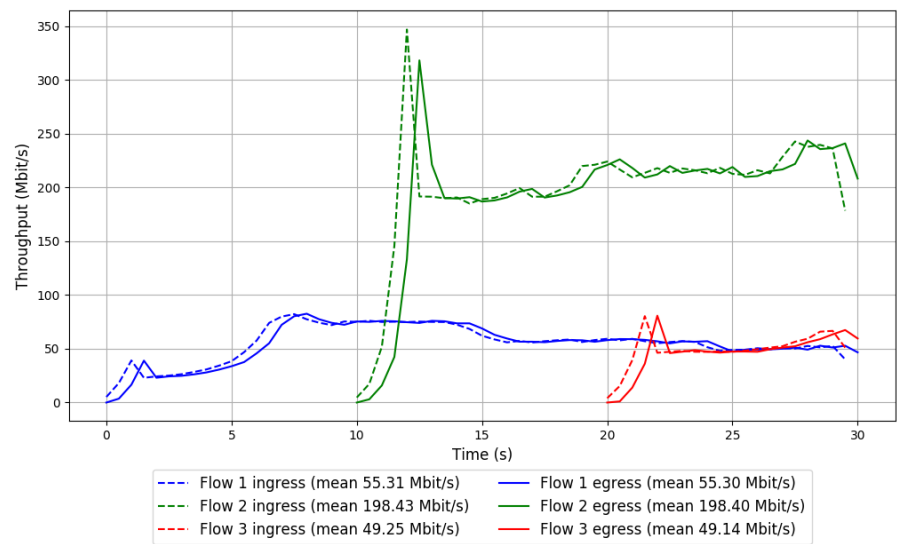


Run 1: Statistics of PCC-Expr

Start at: 2018-05-22 23:59:41
End at: 2018-05-23 00:00:11
Local clock offset: 0.008 ms
Remote clock offset: -0.207 ms

Below is generated by plot.py at 2018-05-23 04:47:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 203.42 Mbit/s
95th percentile per-packet one-way delay: 69.333 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 55.30 Mbit/s
95th percentile per-packet one-way delay: 67.304 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 198.40 Mbit/s
95th percentile per-packet one-way delay: 70.048 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 49.14 Mbit/s
95th percentile per-packet one-way delay: 69.065 ms
Loss rate: 0.28%

Run 1: Report of PCC-Expr — Data Link

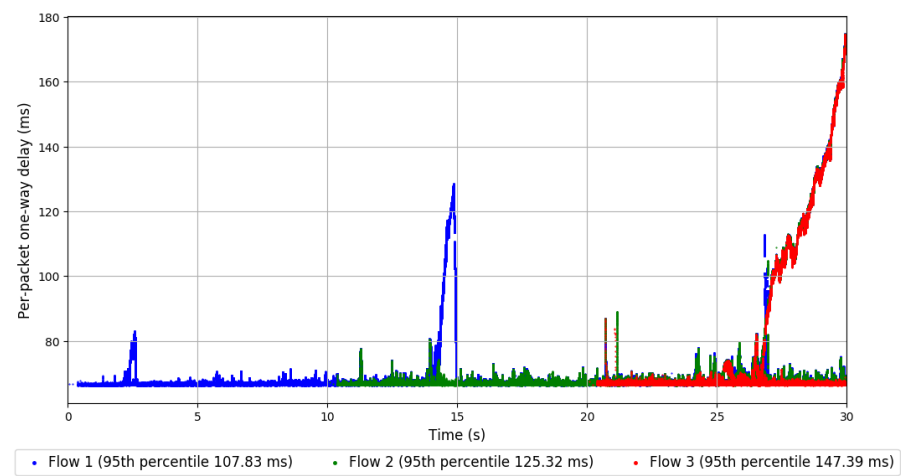
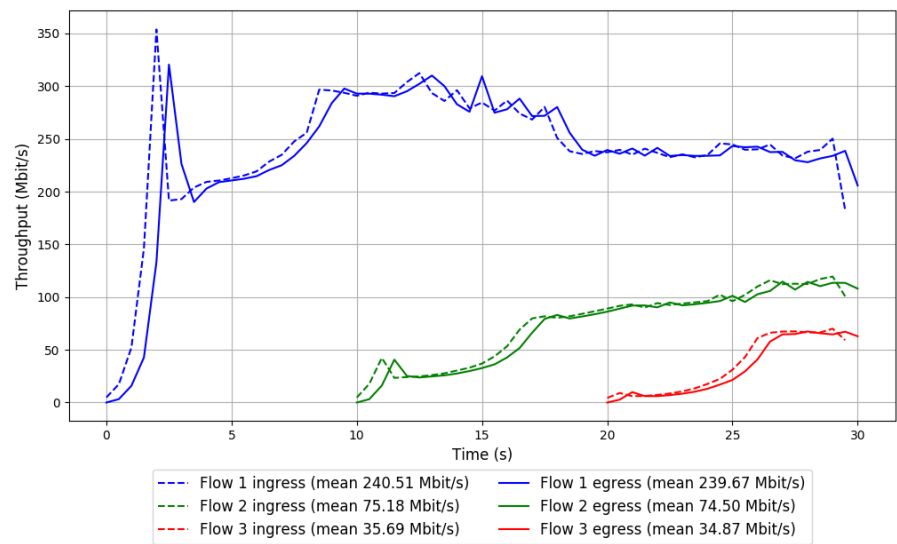


Run 2: Statistics of PCC-Expr

Start at: 2018-05-23 00:22:01
End at: 2018-05-23 00:22:31
Local clock offset: 0.169 ms
Remote clock offset: -0.216 ms

Below is generated by plot.py at 2018-05-23 04:52:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 300.73 Mbit/s
95th percentile per-packet one-way delay: 114.038 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 239.67 Mbit/s
95th percentile per-packet one-way delay: 107.831 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 74.50 Mbit/s
95th percentile per-packet one-way delay: 125.320 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 34.87 Mbit/s
95th percentile per-packet one-way delay: 147.391 ms
Loss rate: 2.34%

Run 2: Report of PCC-Expr — Data Link

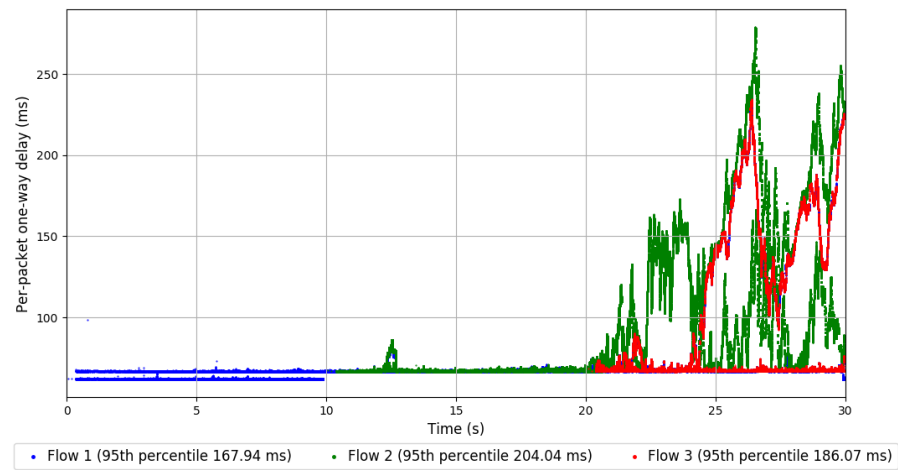
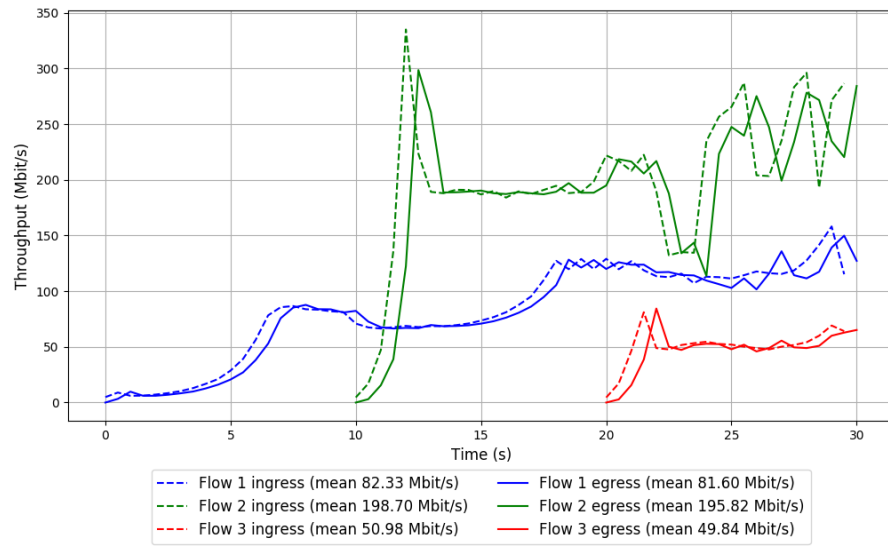


Run 3: Statistics of PCC-Expr

Start at: 2018-05-23 00:44:27
End at: 2018-05-23 00:44:57
Local clock offset: 0.274 ms
Remote clock offset: -0.222 ms

Below is generated by plot.py at 2018-05-23 04:52:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 228.29 Mbit/s
95th percentile per-packet one-way delay: 186.105 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 81.60 Mbit/s
95th percentile per-packet one-way delay: 167.943 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 195.82 Mbit/s
95th percentile per-packet one-way delay: 204.043 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 49.84 Mbit/s
95th percentile per-packet one-way delay: 186.074 ms
Loss rate: 2.26%

Run 3: Report of PCC-Expr — Data Link

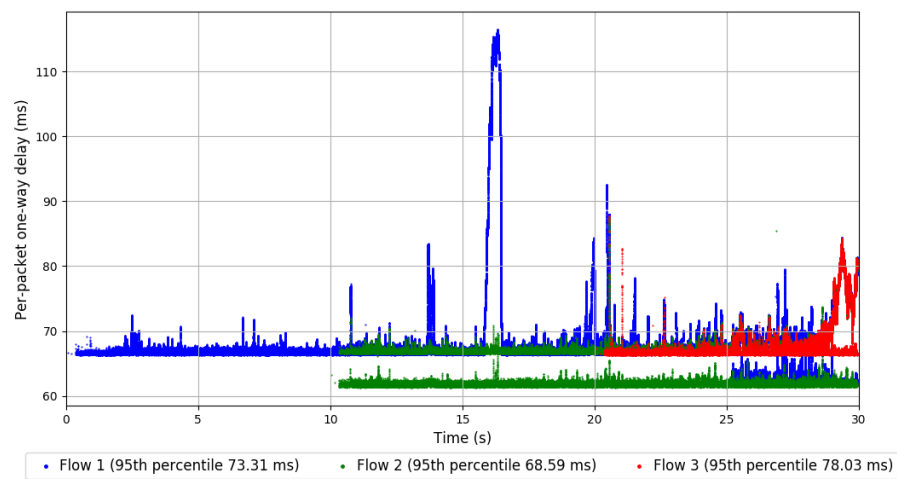
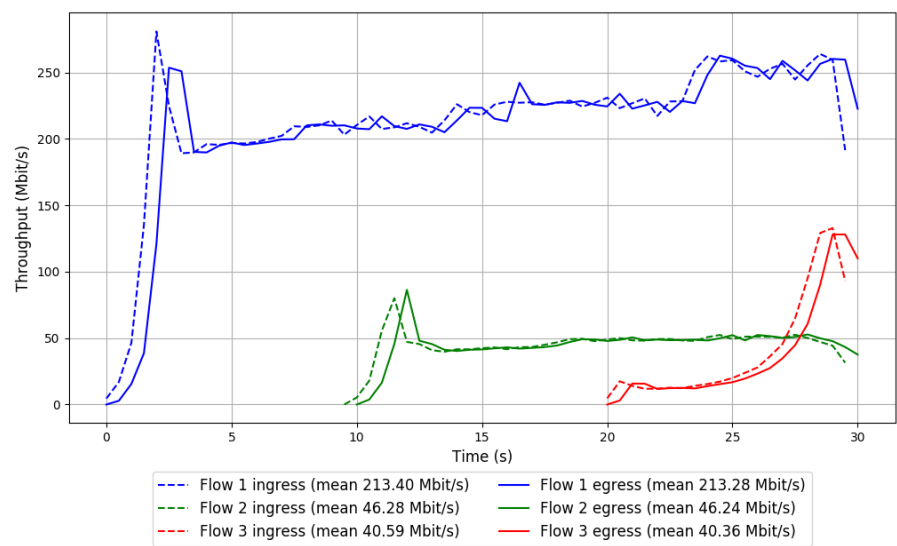


Run 4: Statistics of PCC-Expr

Start at: 2018-05-23 01:07:02
End at: 2018-05-23 01:07:32
Local clock offset: 0.088 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-05-23 04:55:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 257.38 Mbit/s
95th percentile per-packet one-way delay: 73.357 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 213.28 Mbit/s
95th percentile per-packet one-way delay: 73.305 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 46.24 Mbit/s
95th percentile per-packet one-way delay: 68.591 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 40.36 Mbit/s
95th percentile per-packet one-way delay: 78.032 ms
Loss rate: 0.57%

Run 4: Report of PCC-Expr — Data Link

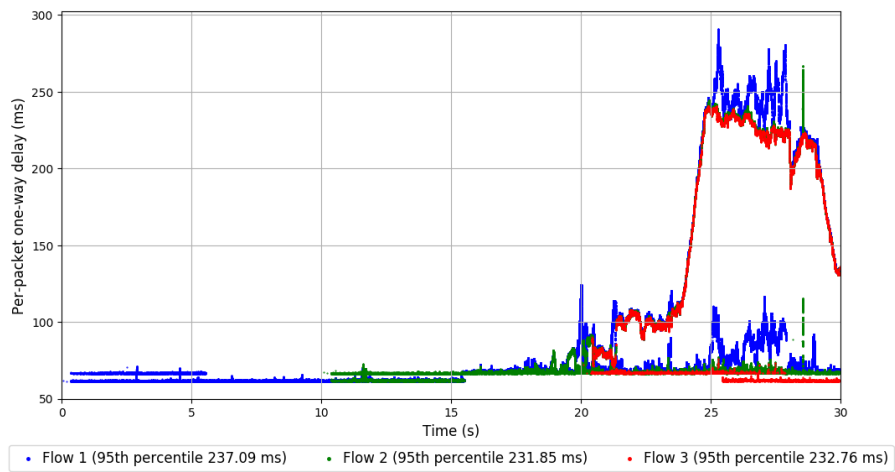
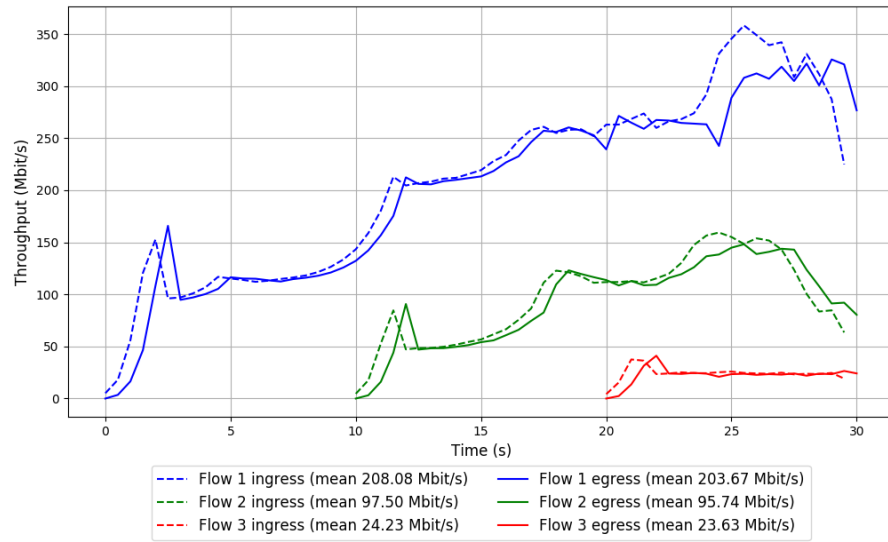


Run 5: Statistics of PCC-Expr

Start at: 2018-05-23 01:29:41
End at: 2018-05-23 01:30:11
Local clock offset: 0.166 ms
Remote clock offset: -0.048 ms

Below is generated by plot.py at 2018-05-23 04:56:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 275.10 Mbit/s
95th percentile per-packet one-way delay: 234.603 ms
Loss rate: 2.04%
-- Flow 1:
Average throughput: 203.67 Mbit/s
95th percentile per-packet one-way delay: 237.088 ms
Loss rate: 2.10%
-- Flow 2:
Average throughput: 95.74 Mbit/s
95th percentile per-packet one-way delay: 231.851 ms
Loss rate: 1.80%
-- Flow 3:
Average throughput: 23.63 Mbit/s
95th percentile per-packet one-way delay: 232.759 ms
Loss rate: 2.49%

Run 5: Report of PCC-Expr — Data Link

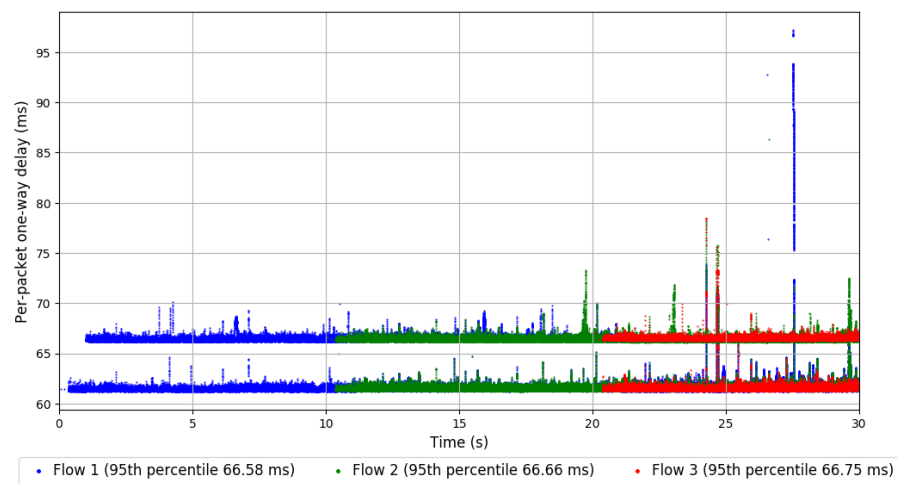
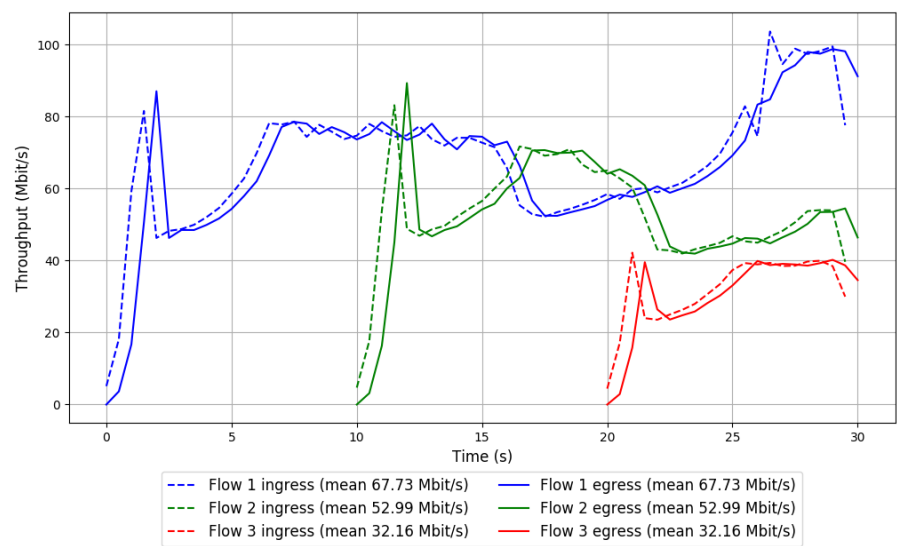


Run 6: Statistics of PCC-Expr

Start at: 2018-05-23 01:51:46
End at: 2018-05-23 01:52:16
Local clock offset: 0.244 ms
Remote clock offset: -0.221 ms

Below is generated by plot.py at 2018-05-23 04:56:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 113.57 Mbit/s
95th percentile per-packet one-way delay: 66.634 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 67.73 Mbit/s
95th percentile per-packet one-way delay: 66.584 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 52.99 Mbit/s
95th percentile per-packet one-way delay: 66.659 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 32.16 Mbit/s
95th percentile per-packet one-way delay: 66.753 ms
Loss rate: 0.00%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-05-23 02:13:50

End at: 2018-05-23 02:14:20

Local clock offset: -0.009 ms

Remote clock offset: -0.27 ms

Below is generated by plot.py at 2018-05-23 04:56:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.47 Mbit/s

95th percentile per-packet one-way delay: 66.720 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.83 Mbit/s

95th percentile per-packet one-way delay: 66.705 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 52.60 Mbit/s

95th percentile per-packet one-way delay: 66.807 ms

Loss rate: 0.00%

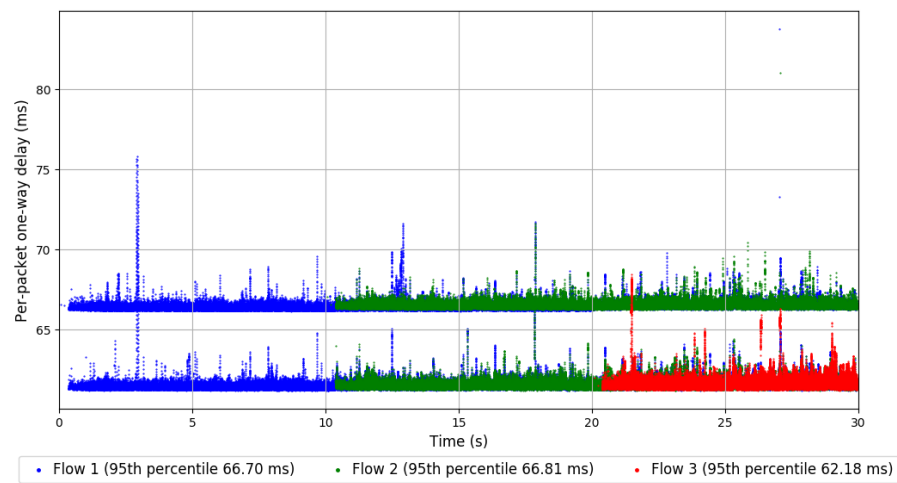
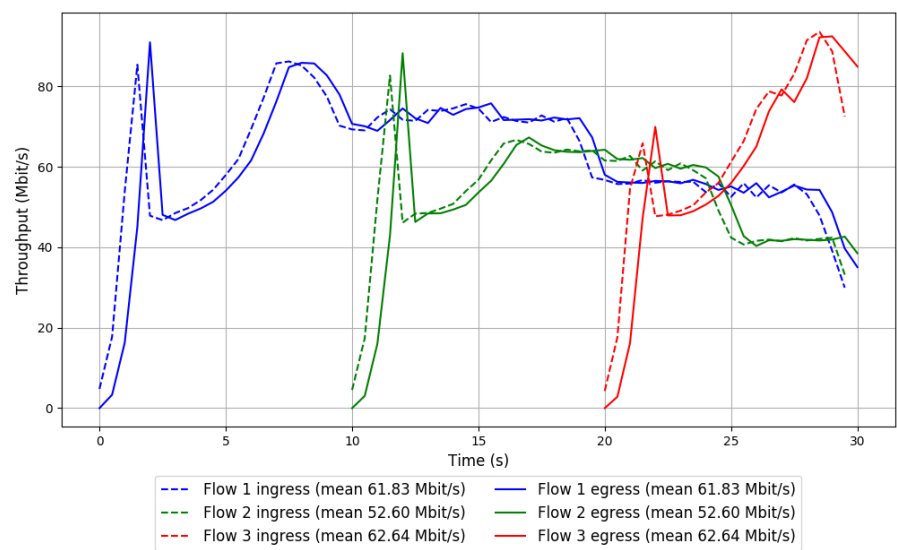
-- Flow 3:

Average throughput: 62.64 Mbit/s

95th percentile per-packet one-way delay: 62.177 ms

Loss rate: 0.00%

Run 7: Report of PCC-Expr — Data Link

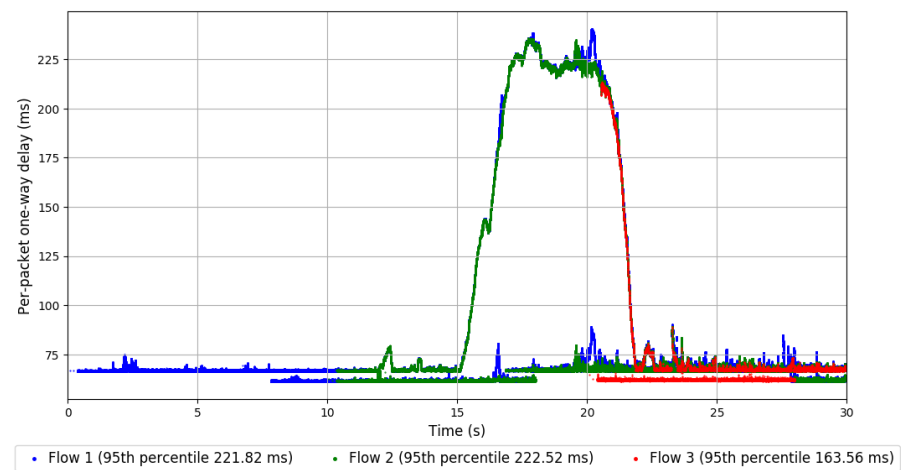
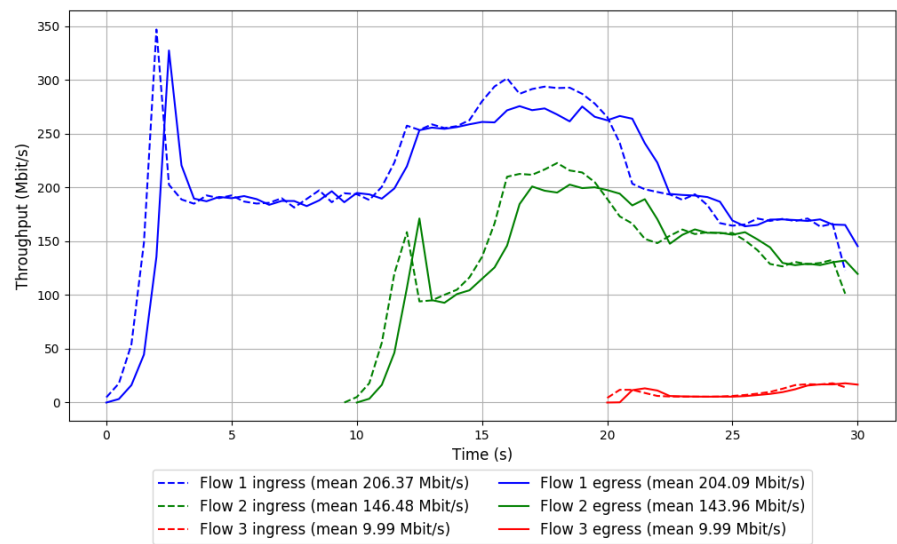


Run 8: Statistics of PCC-Expr

Start at: 2018-05-23 02:35:59
End at: 2018-05-23 02:36:29
Local clock offset: 0.071 ms
Remote clock offset: -0.228 ms

Below is generated by plot.py at 2018-05-23 04:59:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 303.19 Mbit/s
95th percentile per-packet one-way delay: 222.044 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 204.09 Mbit/s
95th percentile per-packet one-way delay: 221.822 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 143.96 Mbit/s
95th percentile per-packet one-way delay: 222.522 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 9.99 Mbit/s
95th percentile per-packet one-way delay: 163.564 ms
Loss rate: 0.01%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-05-23 02:58:01

End at: 2018-05-23 02:58:31

Local clock offset: 0.593 ms

Remote clock offset: -0.38 ms

Below is generated by plot.py at 2018-05-23 05:00:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 267.08 Mbit/s

95th percentile per-packet one-way delay: 76.525 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 222.04 Mbit/s

95th percentile per-packet one-way delay: 77.407 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 44.74 Mbit/s

95th percentile per-packet one-way delay: 67.977 ms

Loss rate: 0.00%

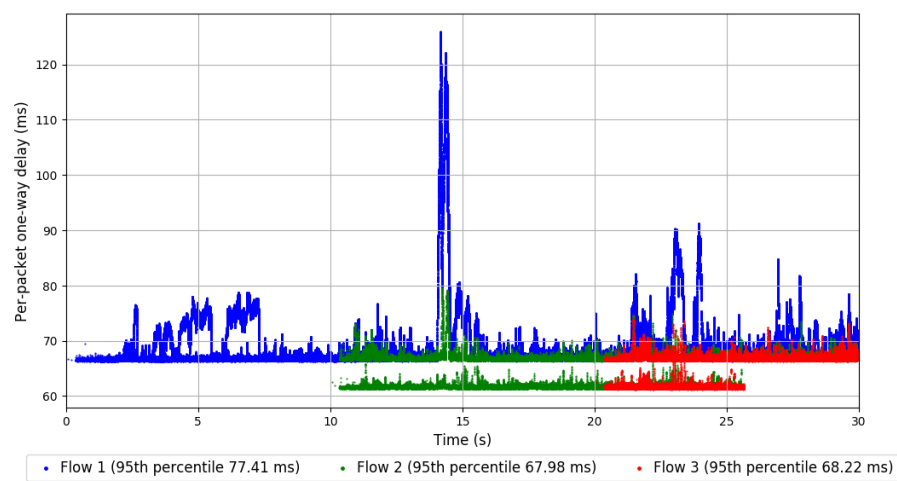
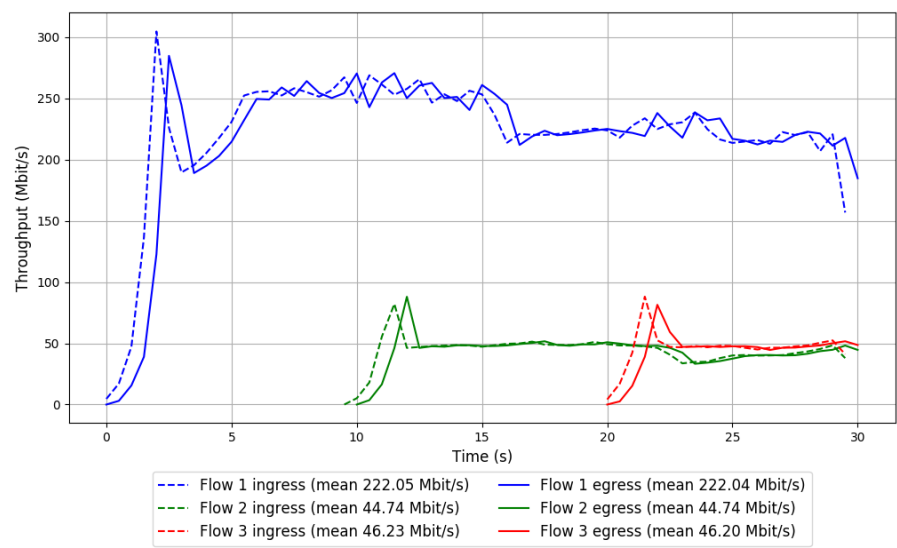
-- Flow 3:

Average throughput: 46.20 Mbit/s

95th percentile per-packet one-way delay: 68.223 ms

Loss rate: 0.00%

Run 9: Report of PCC-Expr — Data Link

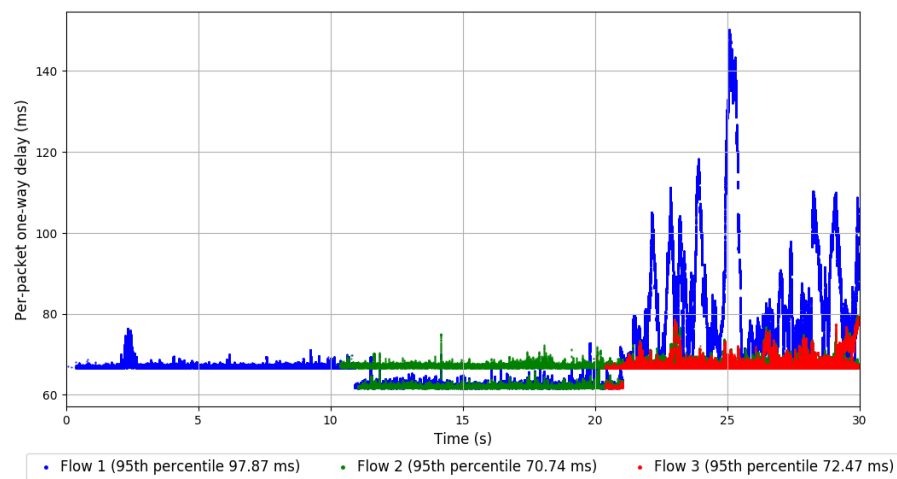
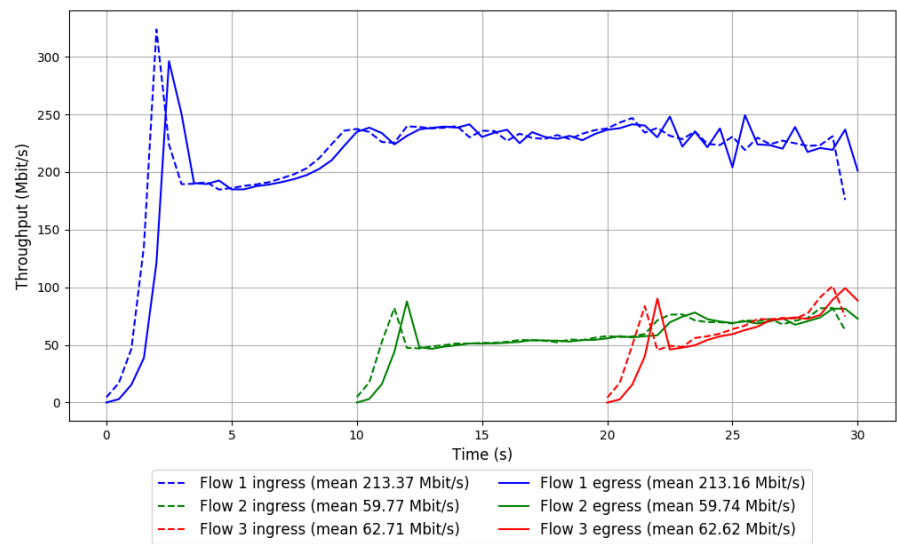


Run 10: Statistics of PCC-Expr

Start at: 2018-05-23 03:20:26
End at: 2018-05-23 03:20:56
Local clock offset: 0.73 ms
Remote clock offset: -0.192 ms

Below is generated by plot.py at 2018-05-23 05:02:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 273.56 Mbit/s
95th percentile per-packet one-way delay: 94.335 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 213.16 Mbit/s
95th percentile per-packet one-way delay: 97.871 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 59.74 Mbit/s
95th percentile per-packet one-way delay: 70.737 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 62.62 Mbit/s
95th percentile per-packet one-way delay: 72.468 ms
Loss rate: 0.13%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-05-22 23:58:25

End at: 2018-05-22 23:58:55

Local clock offset: 0.0 ms

Remote clock offset: 0.081 ms

Below is generated by plot.py at 2018-05-23 05:02:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 111.24 Mbit/s

95th percentile per-packet one-way delay: 67.223 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 54.06 Mbit/s

95th percentile per-packet one-way delay: 67.316 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 60.21 Mbit/s

95th percentile per-packet one-way delay: 67.089 ms

Loss rate: 0.00%

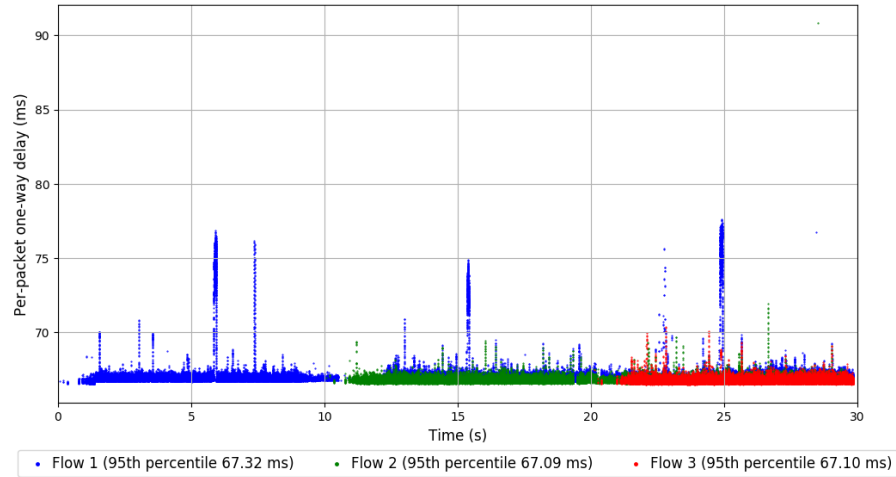
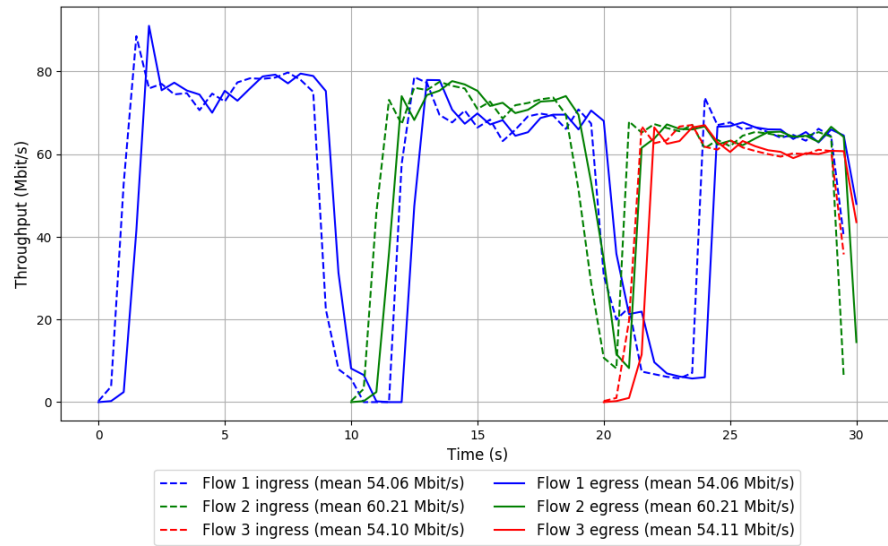
-- Flow 3:

Average throughput: 54.11 Mbit/s

95th percentile per-packet one-way delay: 67.102 ms

Loss rate: 0.05%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-05-23 00:20:45

End at: 2018-05-23 00:21:15

Local clock offset: 0.2 ms

Remote clock offset: 0.19 ms

Below is generated by plot.py at 2018-05-23 05:02:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.95 Mbit/s

95th percentile per-packet one-way delay: 67.265 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 61.72 Mbit/s

95th percentile per-packet one-way delay: 67.283 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 60.29 Mbit/s

95th percentile per-packet one-way delay: 62.287 ms

Loss rate: 0.00%

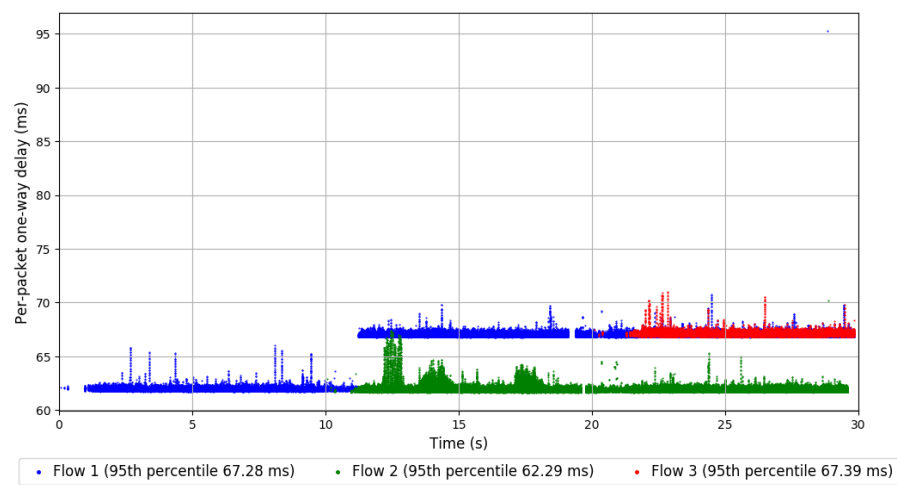
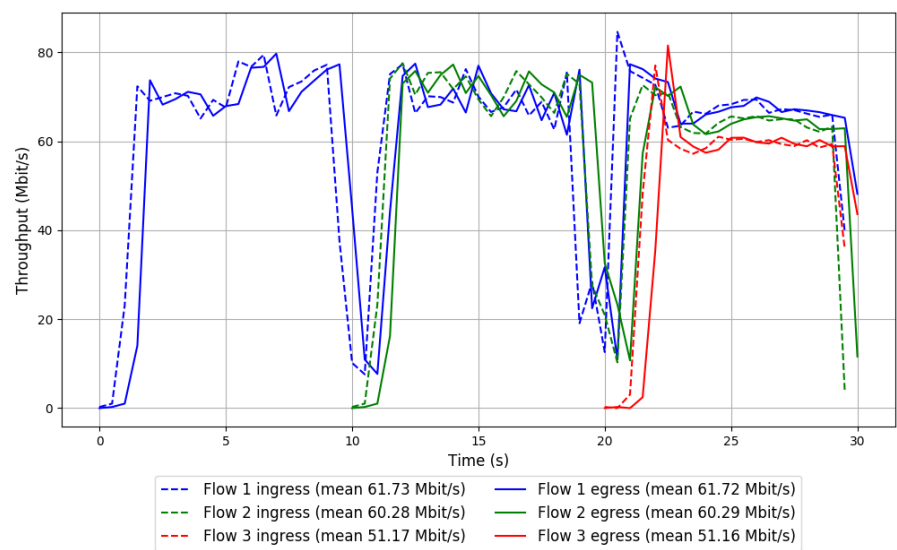
-- Flow 3:

Average throughput: 51.16 Mbit/s

95th percentile per-packet one-way delay: 67.390 ms

Loss rate: 0.05%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-05-23 00:43:10

End at: 2018-05-23 00:43:40

Local clock offset: 0.307 ms

Remote clock offset: 0.14 ms

Below is generated by plot.py at 2018-05-23 05:02:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 111.37 Mbit/s

95th percentile per-packet one-way delay: 67.200 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 56.25 Mbit/s

95th percentile per-packet one-way delay: 67.093 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 56.90 Mbit/s

95th percentile per-packet one-way delay: 67.257 ms

Loss rate: 0.01%

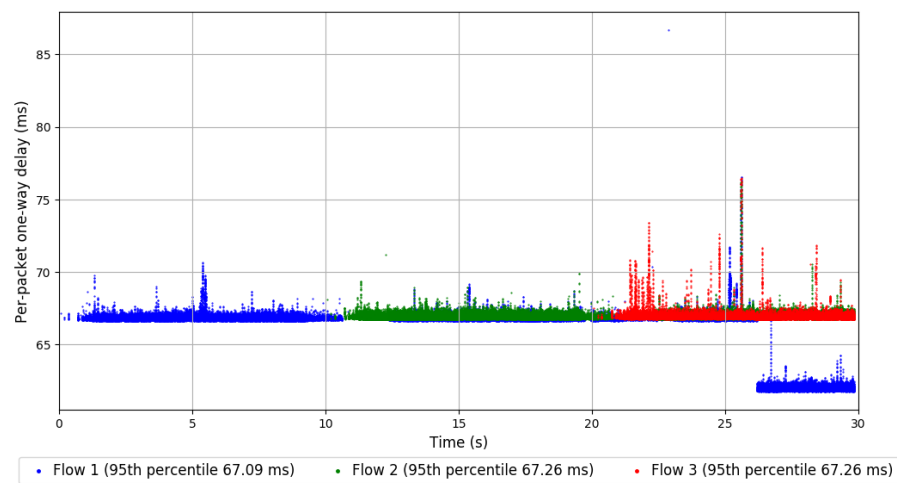
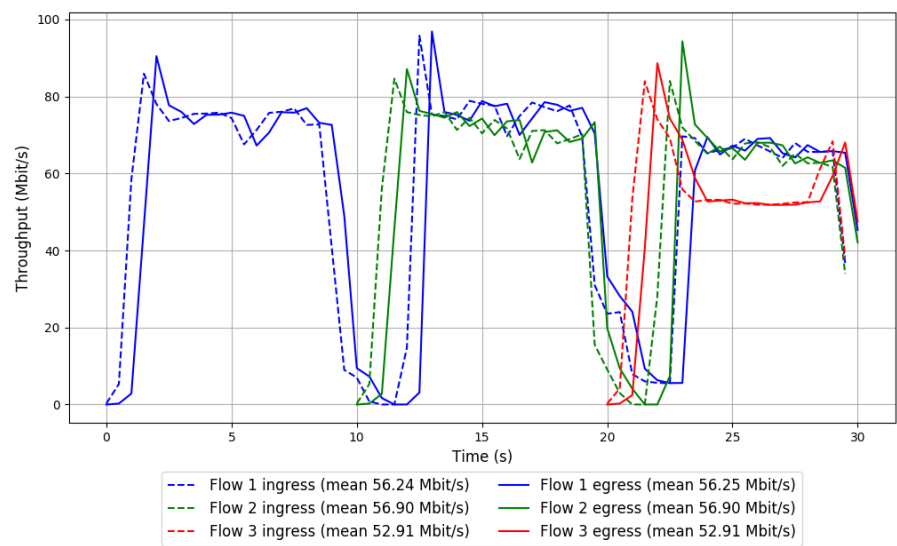
-- Flow 3:

Average throughput: 52.91 Mbit/s

95th percentile per-packet one-way delay: 67.261 ms

Loss rate: 0.01%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-05-23 01:05:45

End at: 2018-05-23 01:06:15

Local clock offset: 0.021 ms

Remote clock offset: 0.024 ms

Below is generated by plot.py at 2018-05-23 05:02:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.21 Mbit/s

95th percentile per-packet one-way delay: 67.263 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.92 Mbit/s

95th percentile per-packet one-way delay: 67.204 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.49 Mbit/s

95th percentile per-packet one-way delay: 67.292 ms

Loss rate: 0.00%

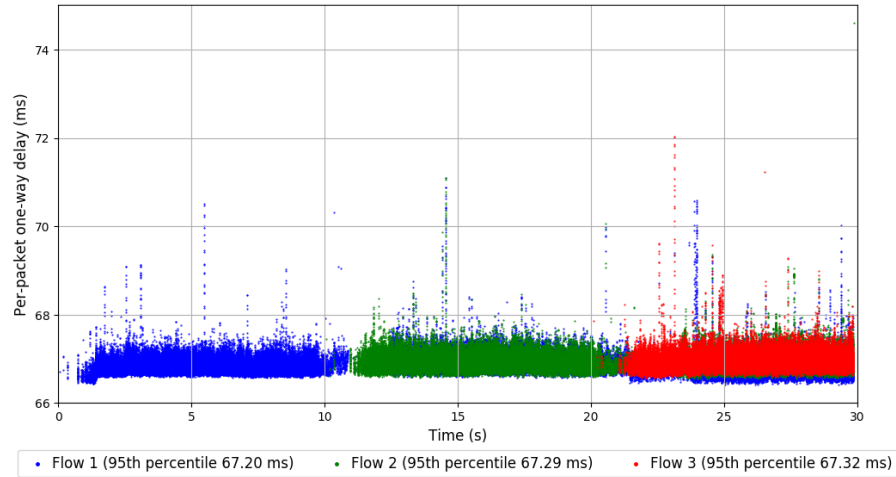
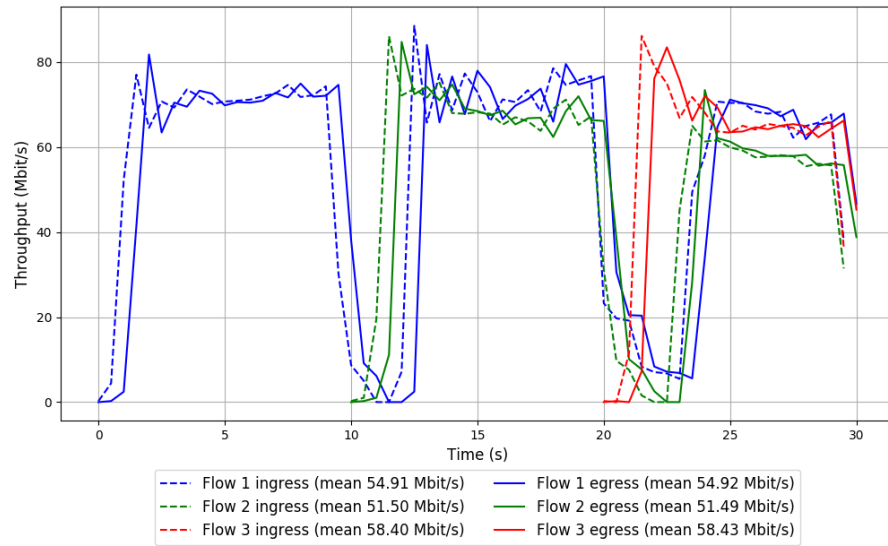
-- Flow 3:

Average throughput: 58.43 Mbit/s

95th percentile per-packet one-way delay: 67.319 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link

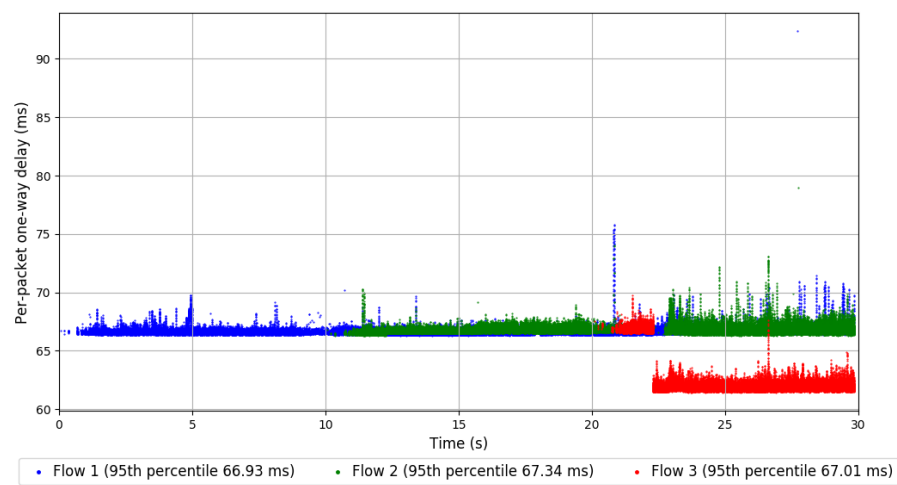
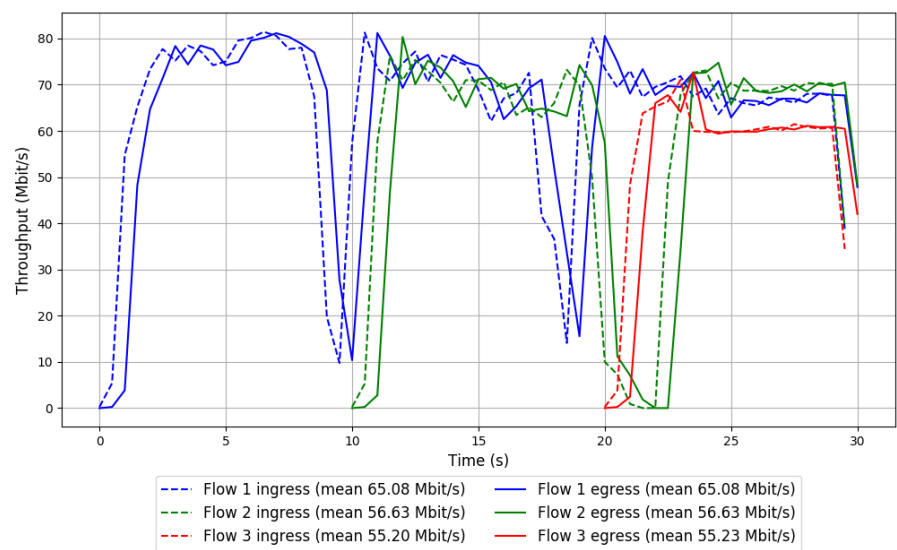


Run 5: Statistics of QUIC Cubic

Start at: 2018-05-23 01:28:24
End at: 2018-05-23 01:28:54
Local clock offset: 0.096 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2018-05-23 05:02:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 120.77 Mbit/s
95th percentile per-packet one-way delay: 67.117 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 65.08 Mbit/s
95th percentile per-packet one-way delay: 66.931 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 56.63 Mbit/s
95th percentile per-packet one-way delay: 67.340 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 55.23 Mbit/s
95th percentile per-packet one-way delay: 67.012 ms
Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

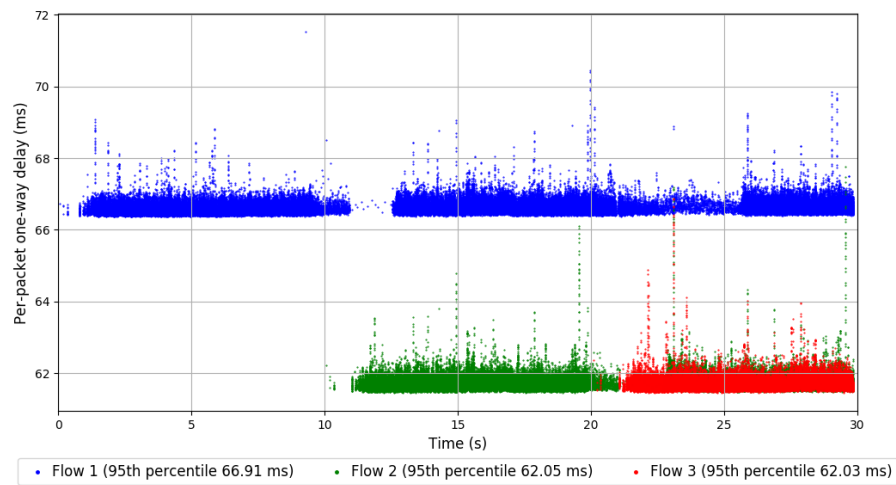
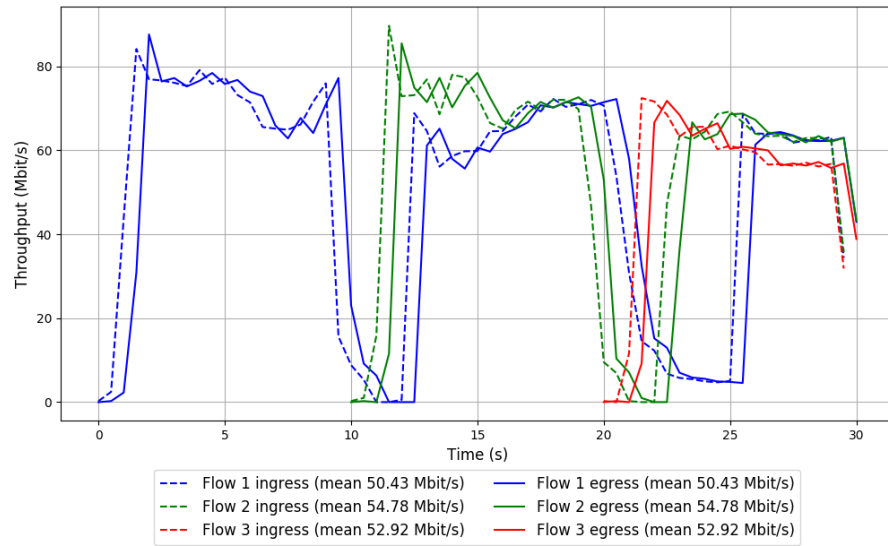


Run 6: Statistics of QUIC Cubic

Start at: 2018-05-23 01:50:30
End at: 2018-05-23 01:51:00
Local clock offset: 0.237 ms
Remote clock offset: -0.037 ms

Below is generated by plot.py at 2018-05-23 05:02:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 104.11 Mbit/s
95th percentile per-packet one-way delay: 66.818 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.43 Mbit/s
95th percentile per-packet one-way delay: 66.911 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 54.78 Mbit/s
95th percentile per-packet one-way delay: 62.047 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 52.92 Mbit/s
95th percentile per-packet one-way delay: 62.029 ms
Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link

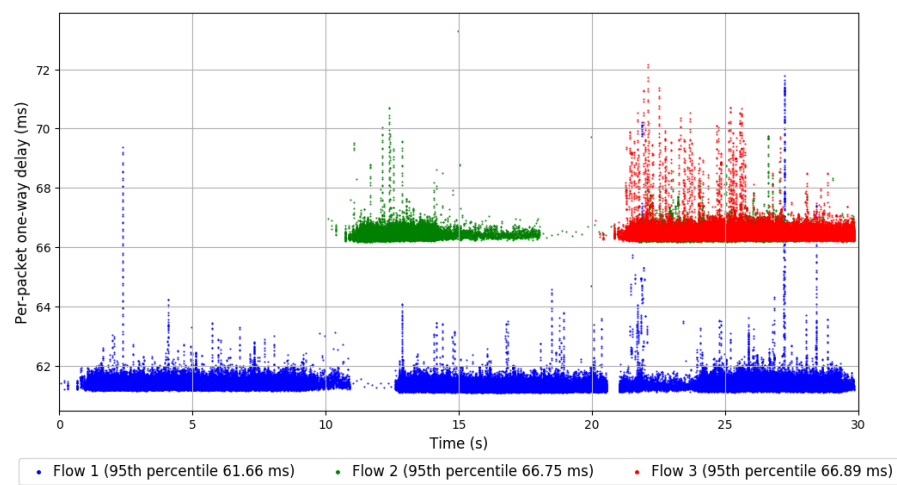
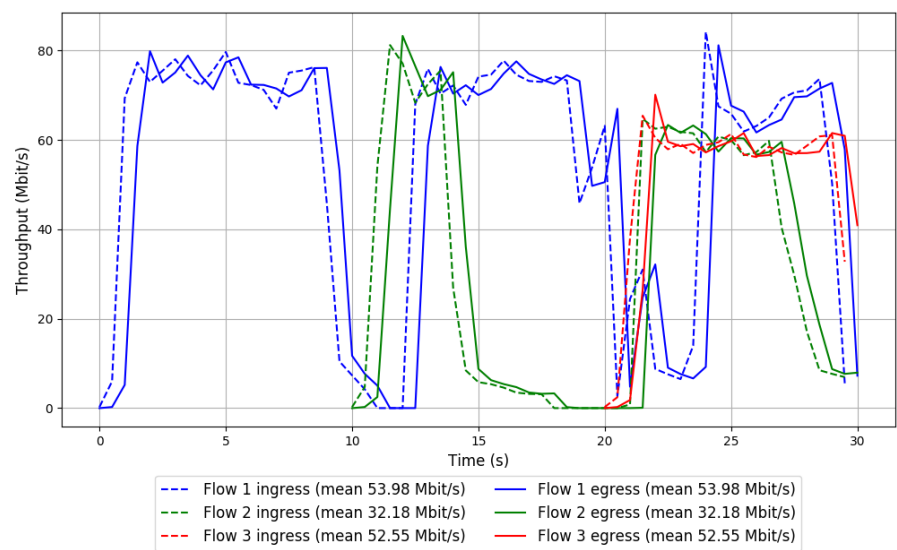


Run 7: Statistics of QUIC Cubic

Start at: 2018-05-23 02:12:35
End at: 2018-05-23 02:13:05
Local clock offset: -0.016 ms
Remote clock offset: -0.363 ms

Below is generated by plot.py at 2018-05-23 05:02:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.43 Mbit/s
95th percentile per-packet one-way delay: 66.661 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 53.98 Mbit/s
95th percentile per-packet one-way delay: 61.664 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 32.18 Mbit/s
95th percentile per-packet one-way delay: 66.749 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 52.55 Mbit/s
95th percentile per-packet one-way delay: 66.885 ms
Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link

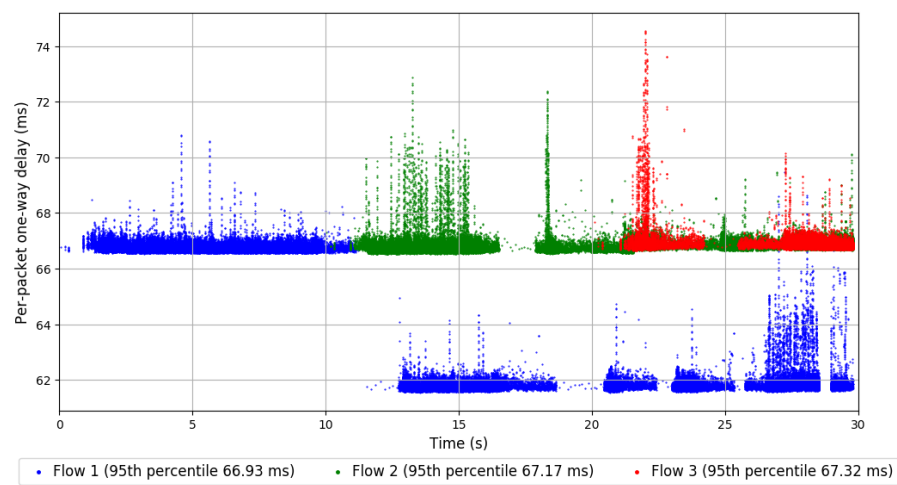
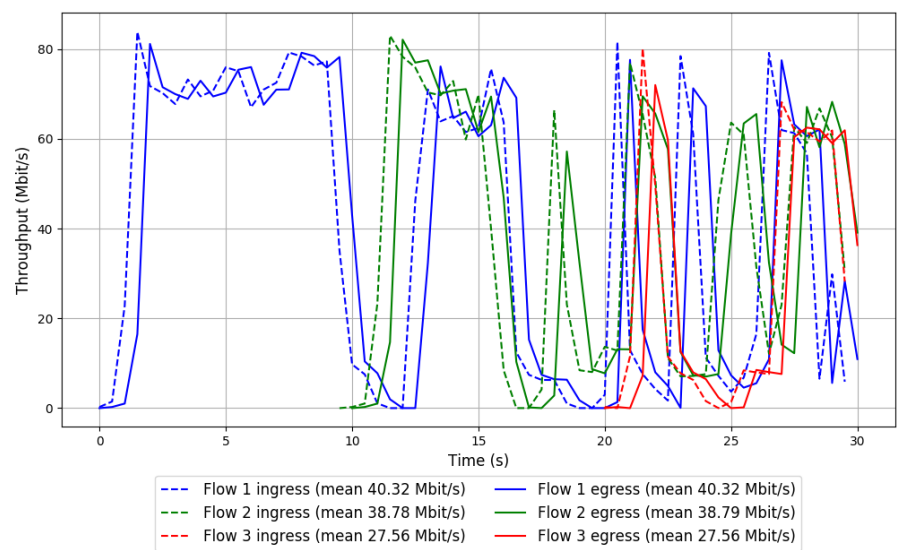


Run 8: Statistics of QUIC Cubic

Start at: 2018-05-23 02:34:45
End at: 2018-05-23 02:35:15
Local clock offset: 0.034 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-05-23 05:02:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.09 Mbit/s
95th percentile per-packet one-way delay: 67.082 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 40.32 Mbit/s
95th percentile per-packet one-way delay: 66.933 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.79 Mbit/s
95th percentile per-packet one-way delay: 67.167 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 27.56 Mbit/s
95th percentile per-packet one-way delay: 67.318 ms
Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link

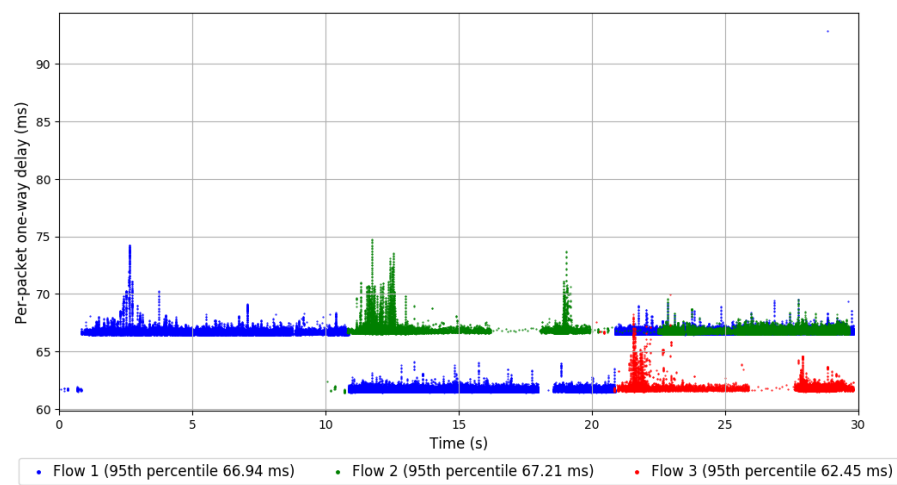
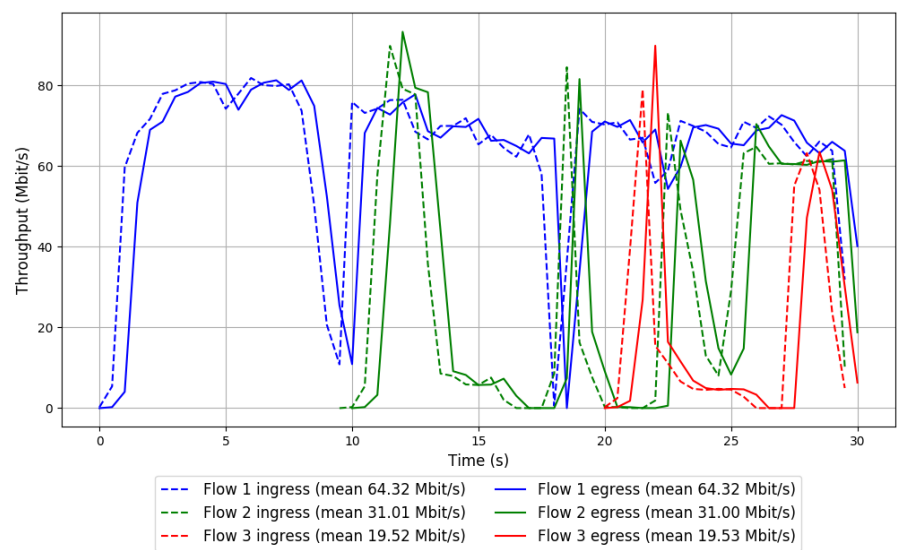


Run 9: Statistics of QUIC Cubic

Start at: 2018-05-23 02:56:46
End at: 2018-05-23 02:57:16
Local clock offset: 0.539 ms
Remote clock offset: -0.187 ms

Below is generated by plot.py at 2018-05-23 05:02:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.05 Mbit/s
95th percentile per-packet one-way delay: 67.009 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 64.32 Mbit/s
95th percentile per-packet one-way delay: 66.944 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 31.00 Mbit/s
95th percentile per-packet one-way delay: 67.212 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 19.53 Mbit/s
95th percentile per-packet one-way delay: 62.452 ms
Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

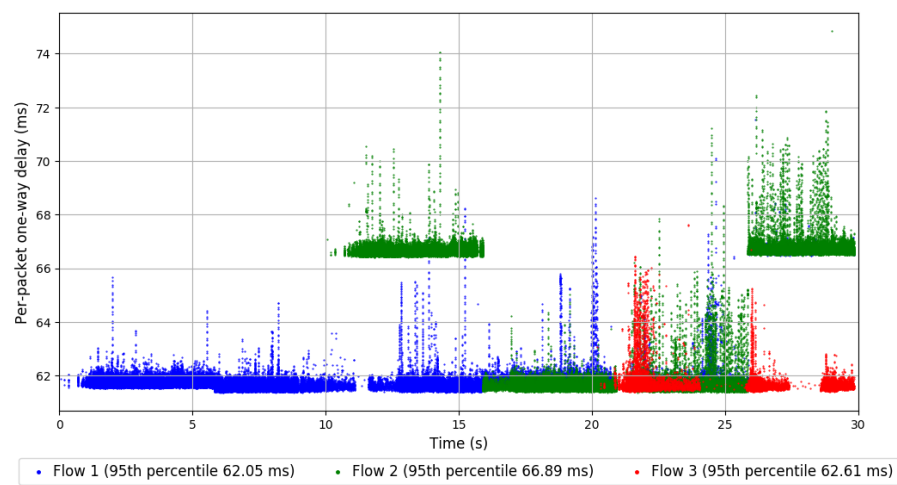
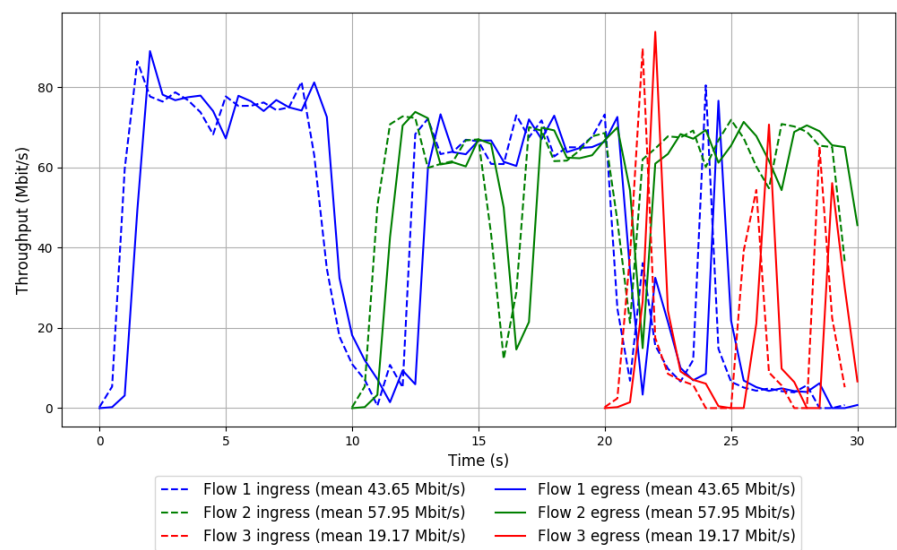


Run 10: Statistics of QUIC Cubic

Start at: 2018-05-23 03:19:11
End at: 2018-05-23 03:19:41
Local clock offset: 0.703 ms
Remote clock offset: -0.347 ms

Below is generated by plot.py at 2018-05-23 05:02:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.33 Mbit/s
95th percentile per-packet one-way delay: 66.764 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 43.65 Mbit/s
95th percentile per-packet one-way delay: 62.048 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 57.95 Mbit/s
95th percentile per-packet one-way delay: 66.885 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 19.17 Mbit/s
95th percentile per-packet one-way delay: 62.612 ms
Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

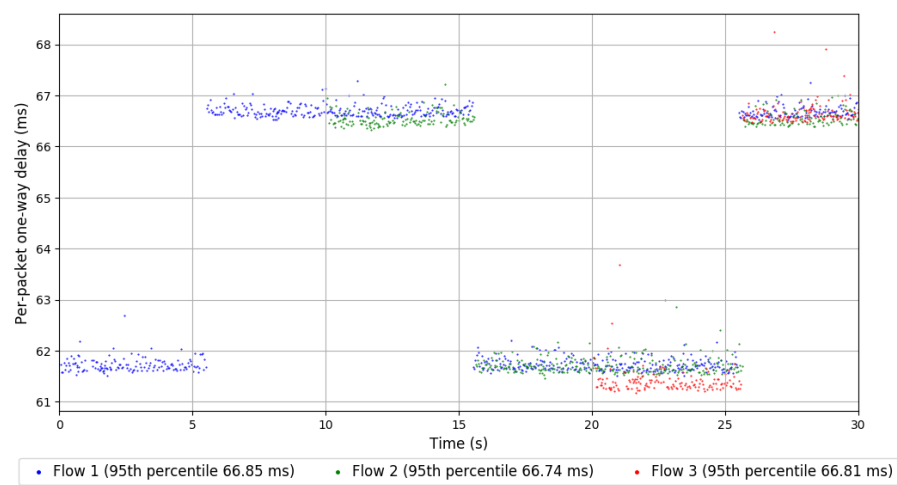
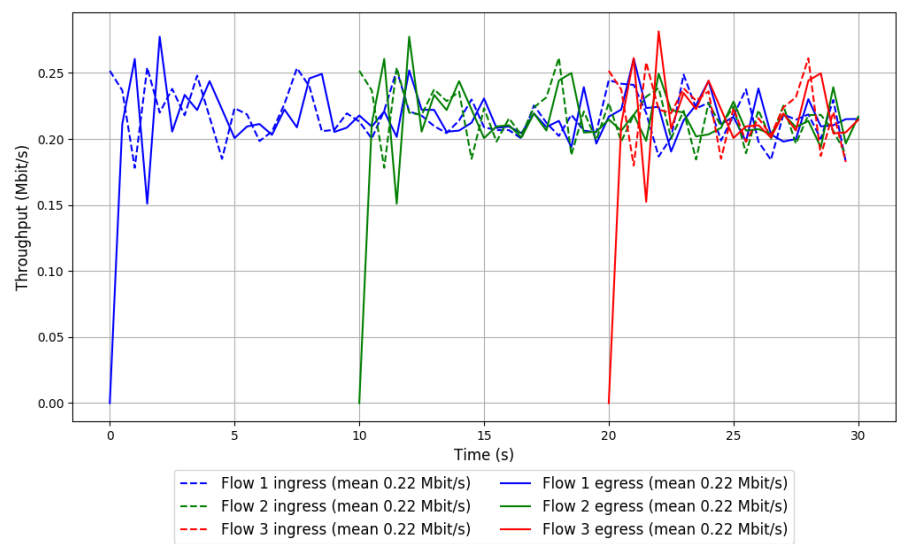


```
Run 1: Statistics of SReAM

Start at: 2018-05-22 23:53:01
End at: 2018-05-22 23:53:31
Local clock offset: 0.001 ms
Remote clock offset: -0.175 ms

# Below is generated by plot.py at 2018-05-23 05:02:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 66.812 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.846 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.737 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.805 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

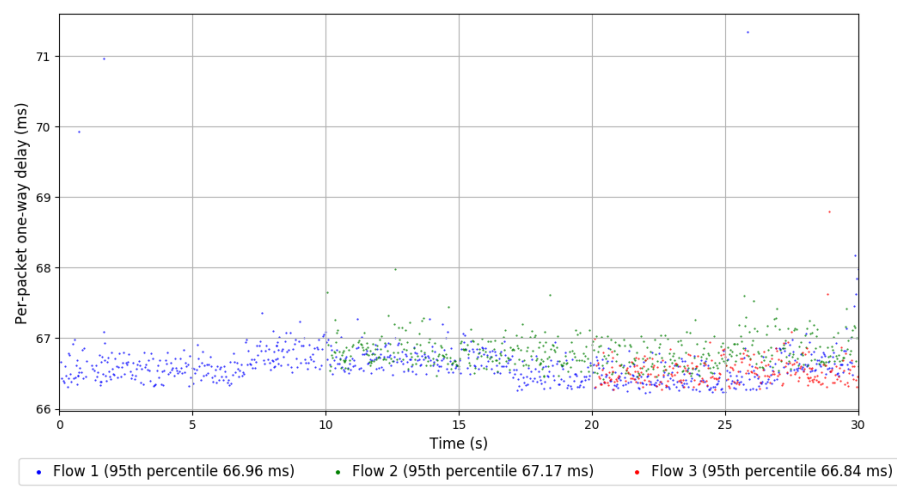
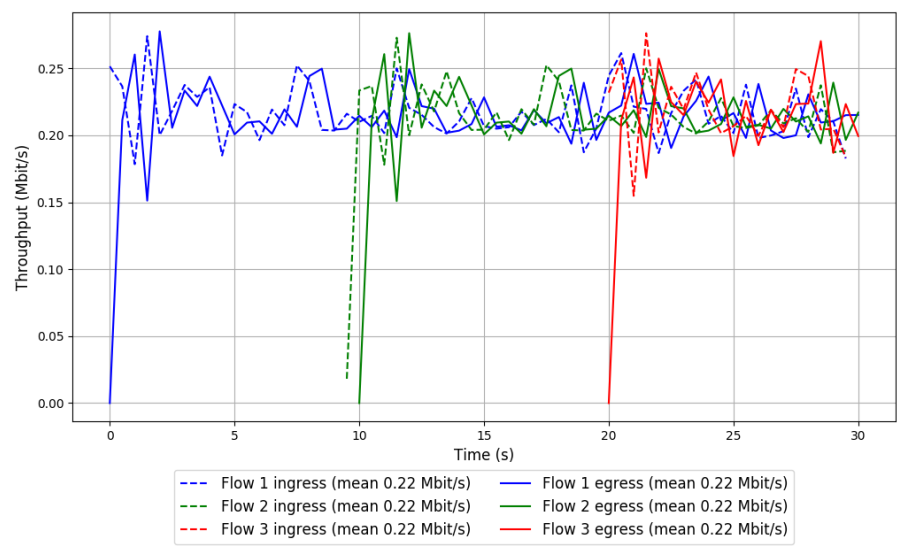


Run 2: Statistics of SReAM

Start at: 2018-05-23 00:15:20
End at: 2018-05-23 00:15:50
Local clock offset: 0.117 ms
Remote clock offset: -0.217 ms

Below is generated by plot.py at 2018-05-23 05:02:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 67.076 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.958 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 67.169 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.836 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-05-23 00:37:57

End at: 2018-05-23 00:38:27

Local clock offset: 0.309 ms

Remote clock offset: 0.241 ms

Below is generated by plot.py at 2018-05-23 05:02:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 67.253 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 67.207 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 67.306 ms

Loss rate: 0.00%

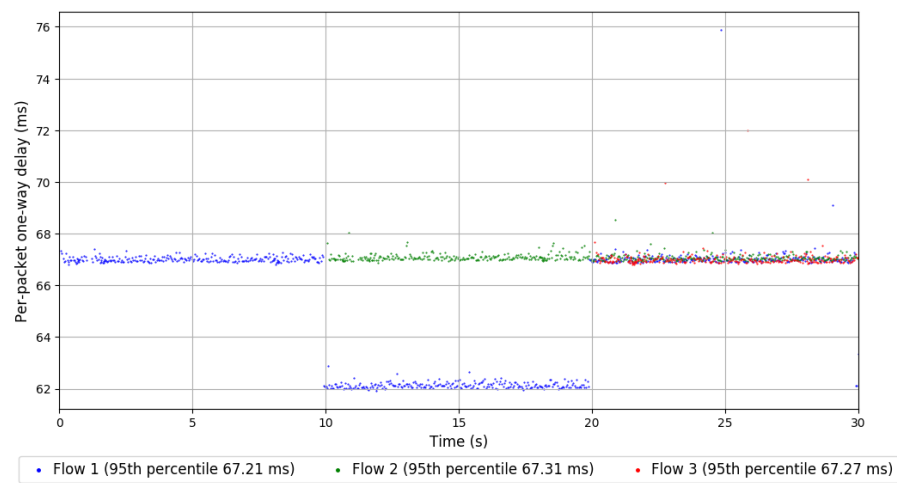
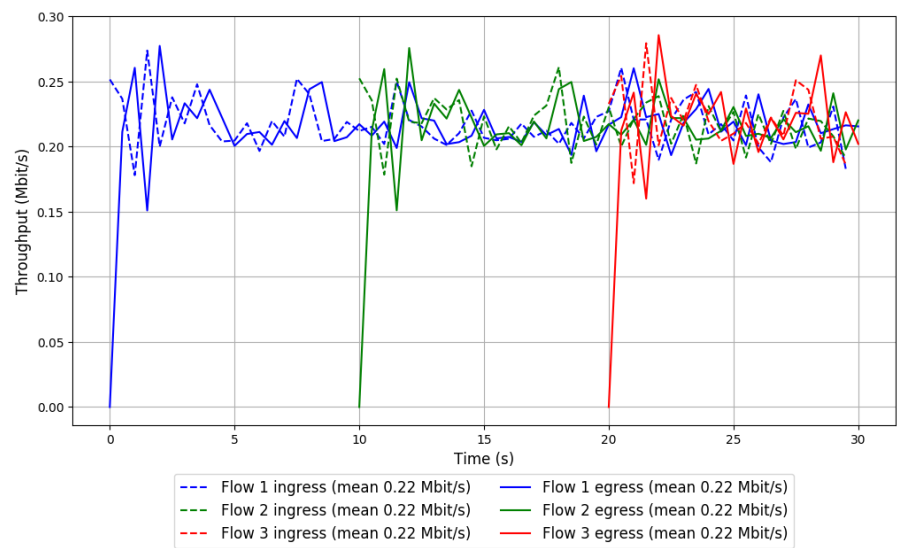
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 67.274 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

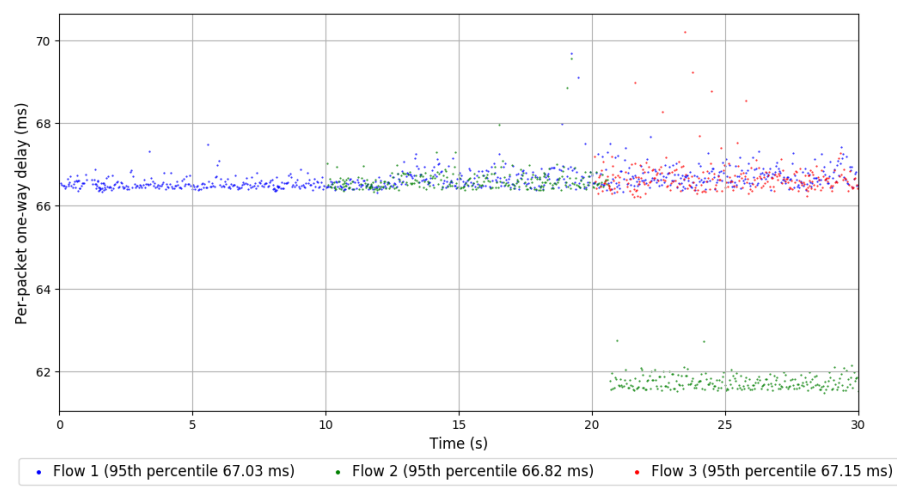
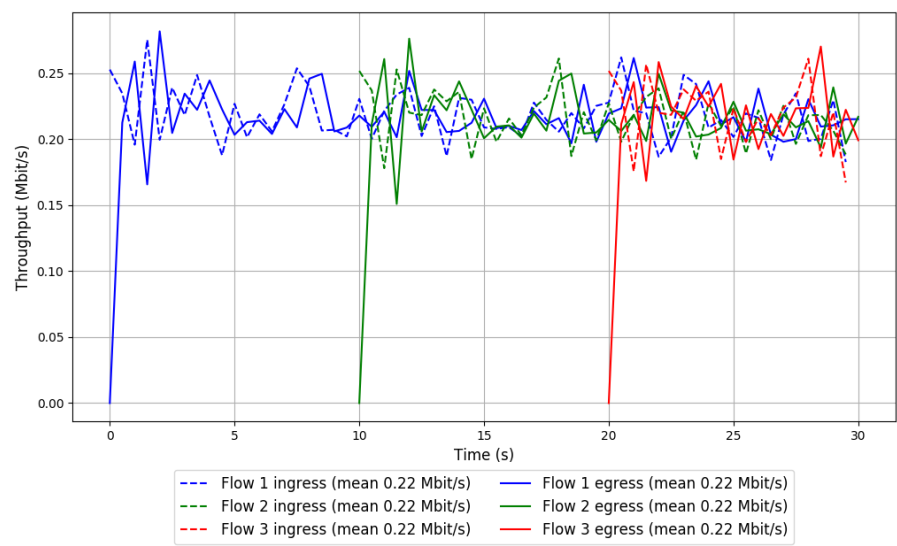


Run 4: Statistics of SReAM

Start at: 2018-05-23 01:00:16
End at: 2018-05-23 01:00:46
Local clock offset: 0.119 ms
Remote clock offset: -0.241 ms

Below is generated by plot.py at 2018-05-23 05:02:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 67.011 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 67.033 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.818 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 67.152 ms
Loss rate: 0.00%

Run 4: Report of SCReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-05-23 01:22:49

End at: 2018-05-23 01:23:19

Local clock offset: -0.017 ms

Remote clock offset: 0.244 ms

Below is generated by plot.py at 2018-05-23 05:02:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 67.045 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 62.130 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 62.214 ms

Loss rate: 0.00%

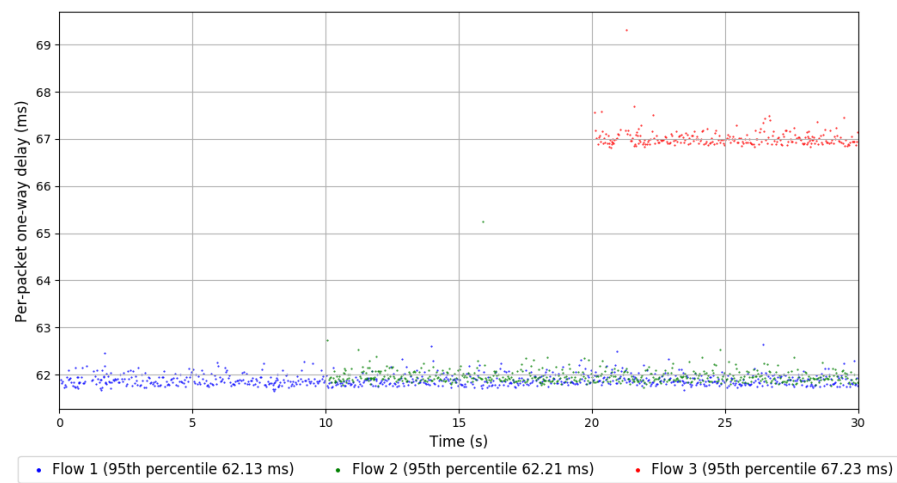
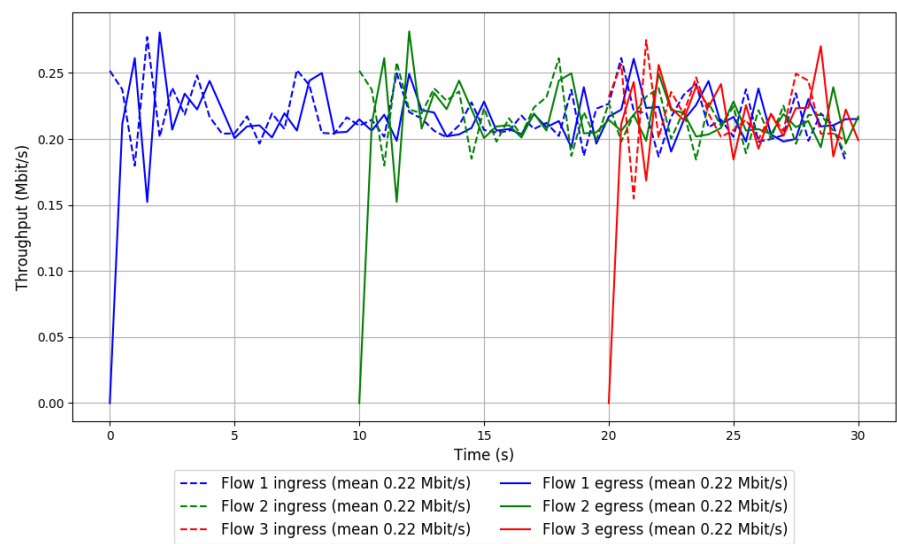
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 67.228 ms

Loss rate: 0.35%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-05-23 01:45:21

End at: 2018-05-23 01:45:51

Local clock offset: 0.166 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-05-23 05:02:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 67.170 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 67.224 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 62.231 ms

Loss rate: 0.00%

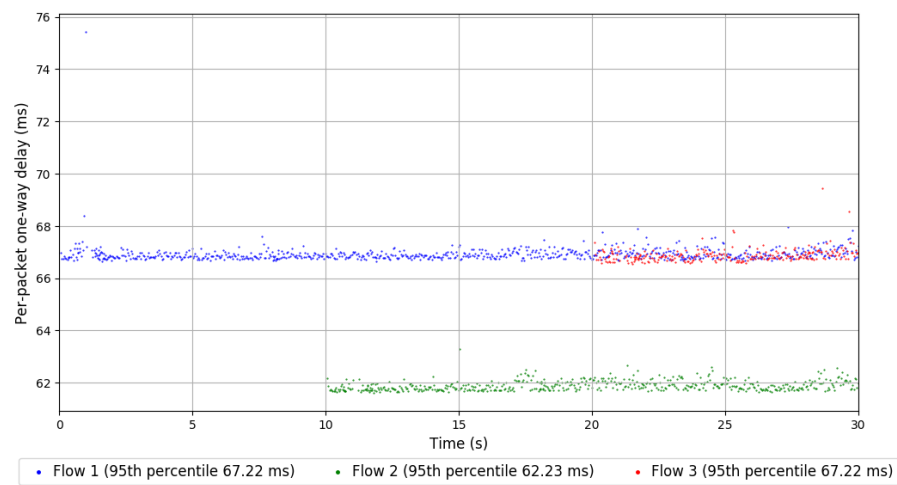
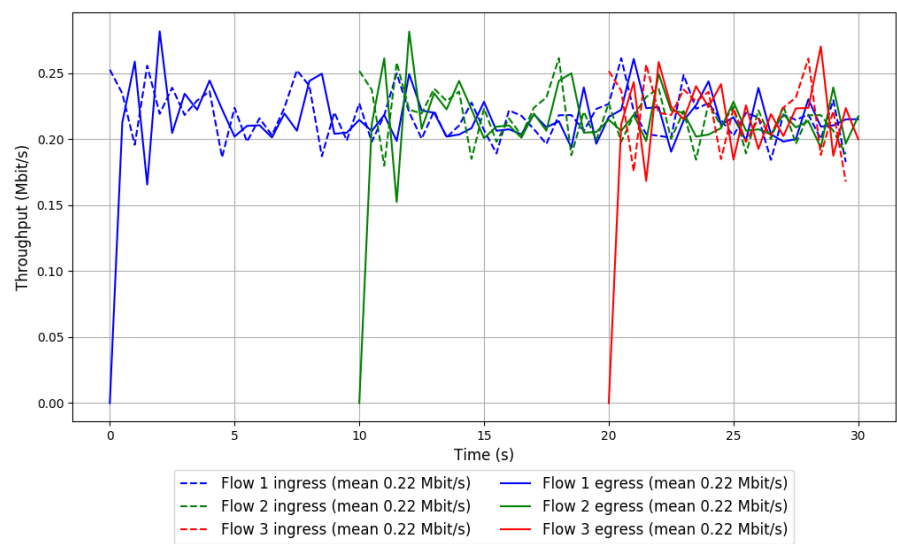
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 67.215 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

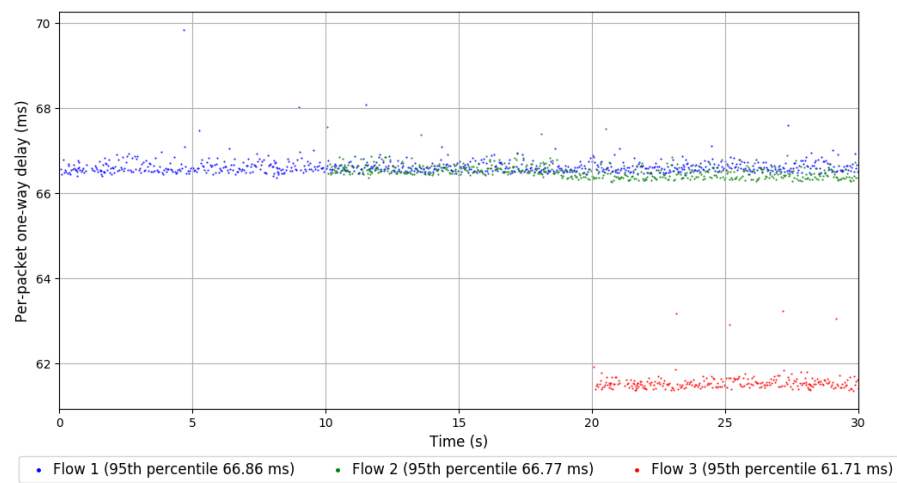
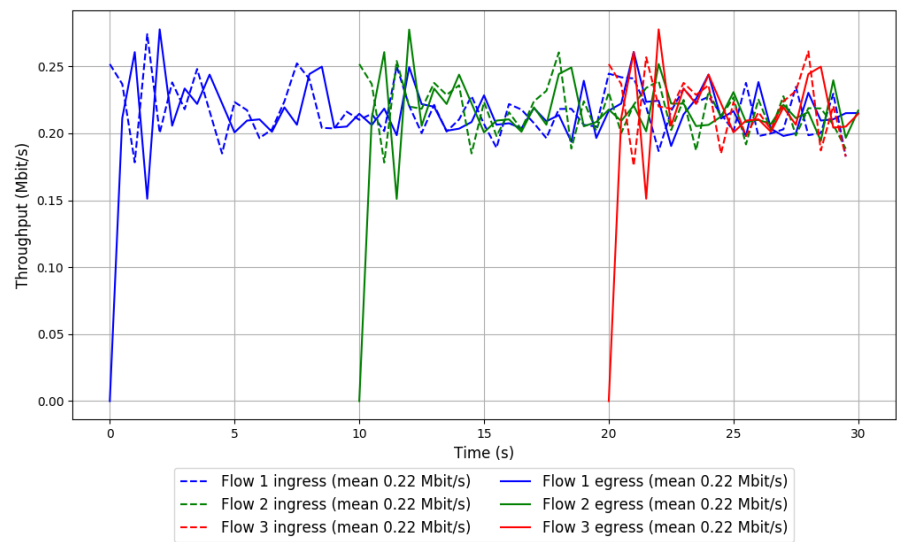


Run 7: Statistics of SReAM

Start at: 2018-05-23 02:07:08
End at: 2018-05-23 02:07:38
Local clock offset: 0.063 ms
Remote clock offset: -0.204 ms

Below is generated by plot.py at 2018-05-23 05:02:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 66.809 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.857 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.770 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.706 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

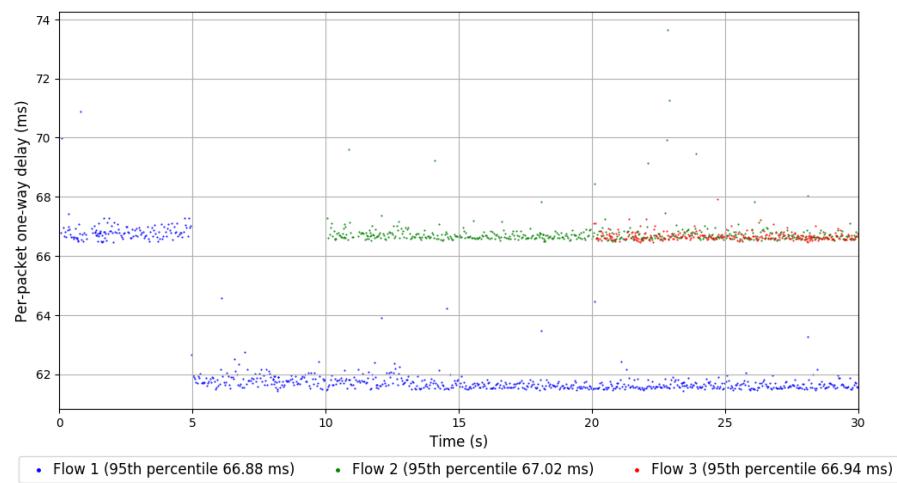
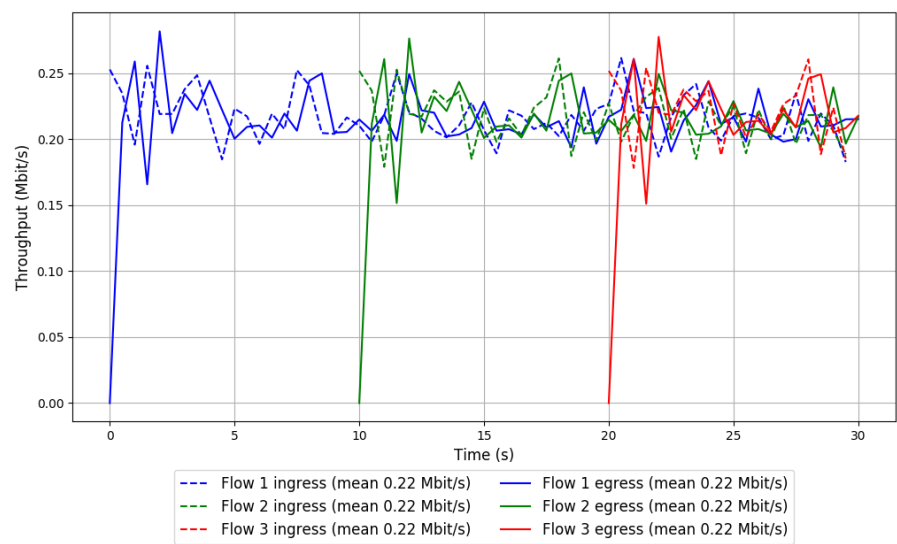


Run 8: Statistics of SReAM

Start at: 2018-05-23 02:29:22
End at: 2018-05-23 02:29:52
Local clock offset: -0.084 ms
Remote clock offset: -0.278 ms

Below is generated by plot.py at 2018-05-23 05:02:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 66.958 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.884 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 67.023 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.936 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-05-23 02:51:32

End at: 2018-05-23 02:52:02

Local clock offset: 0.582 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2018-05-23 05:02:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 67.111 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 67.067 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 67.121 ms

Loss rate: 0.00%

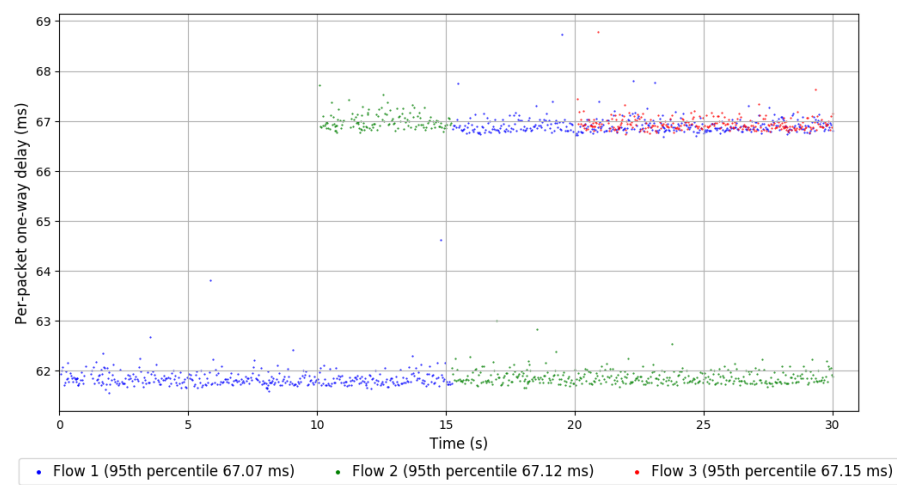
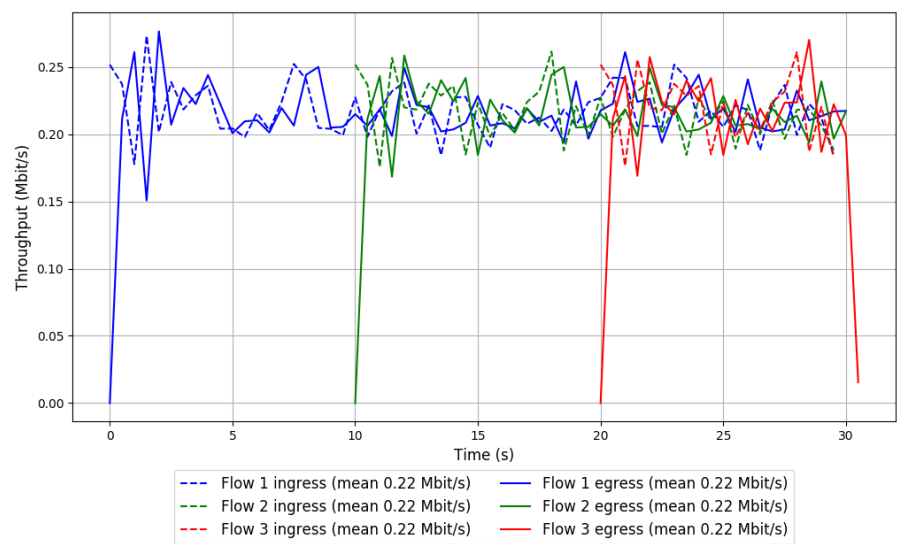
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 67.151 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

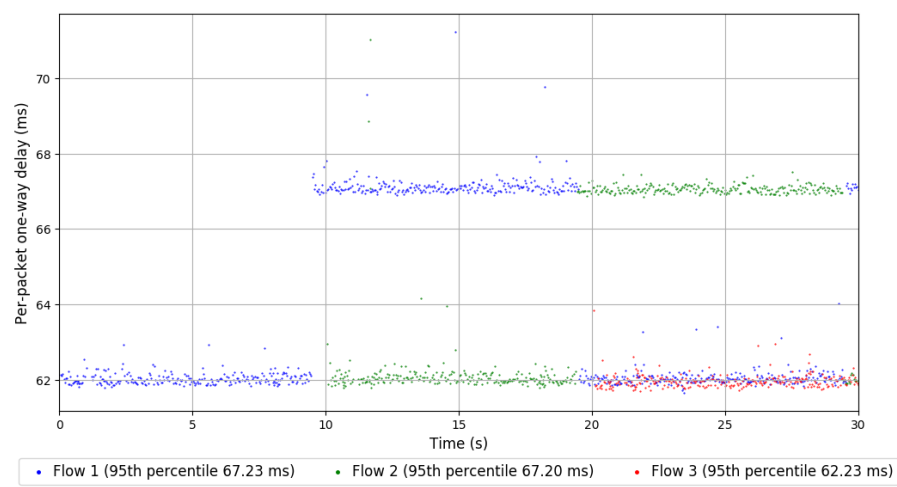
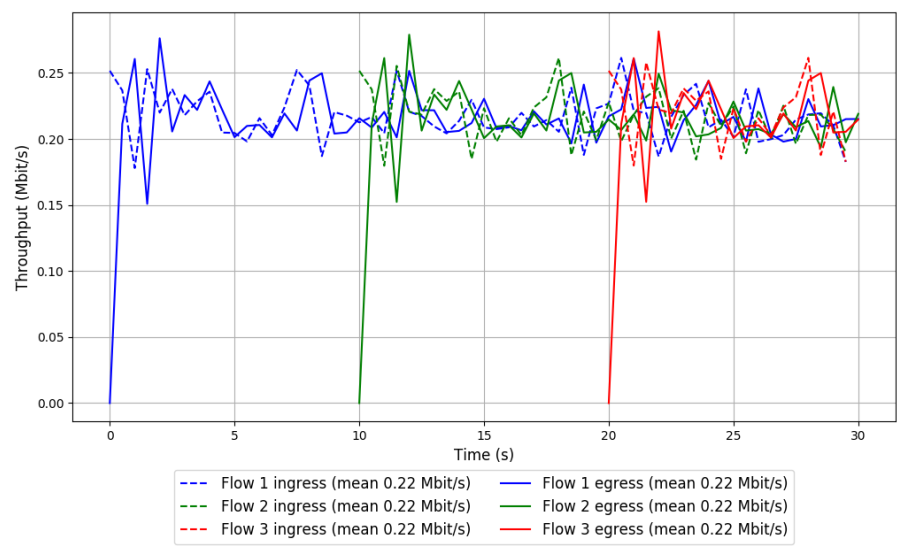


Run 10: Statistics of SReAM

Start at: 2018-05-23 03:13:47
End at: 2018-05-23 03:14:17
Local clock offset: 0.686 ms
Remote clock offset: -0.121 ms

Below is generated by plot.py at 2018-05-23 05:02:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 67.199 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 67.230 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 67.202 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.234 ms
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-05-23 00:01:10

End at: 2018-05-23 00:01:40

Local clock offset: 0.101 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-05-23 05:02:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 67.067 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 67.061 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.04 Mbit/s

95th percentile per-packet one-way delay: 67.067 ms

Loss rate: 0.00%

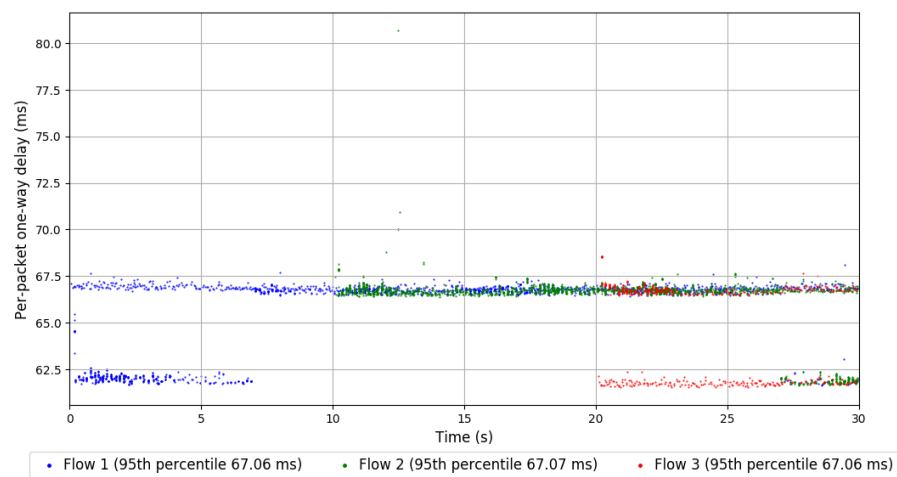
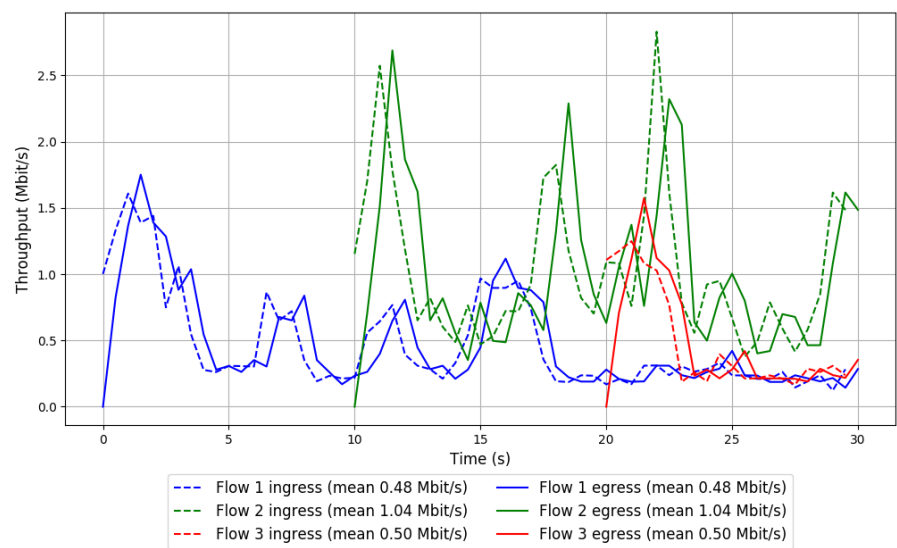
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 67.056 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

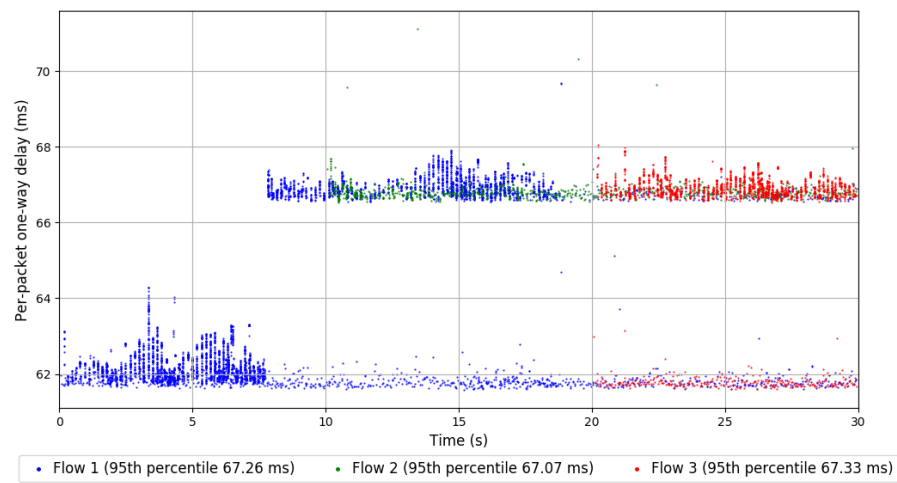
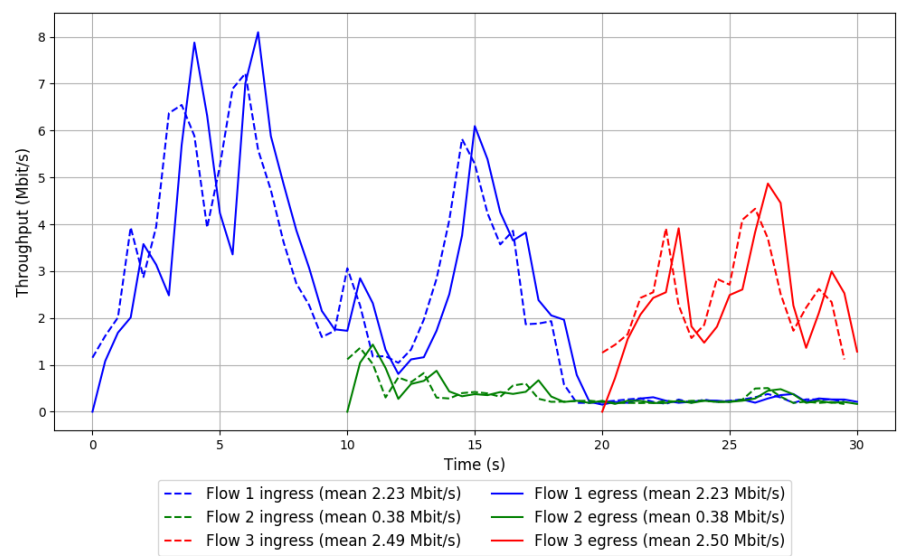


Run 2: Statistics of Sprout

Start at: 2018-05-23 00:23:39
End at: 2018-05-23 00:24:09
Local clock offset: 0.222 ms
Remote clock offset: -0.031 ms

```
# Below is generated by plot.py at 2018-05-23 05:02:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.31 Mbit/s
95th percentile per-packet one-way delay: 67.286 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 67.259 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 67.069 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.50 Mbit/s
95th percentile per-packet one-way delay: 67.335 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

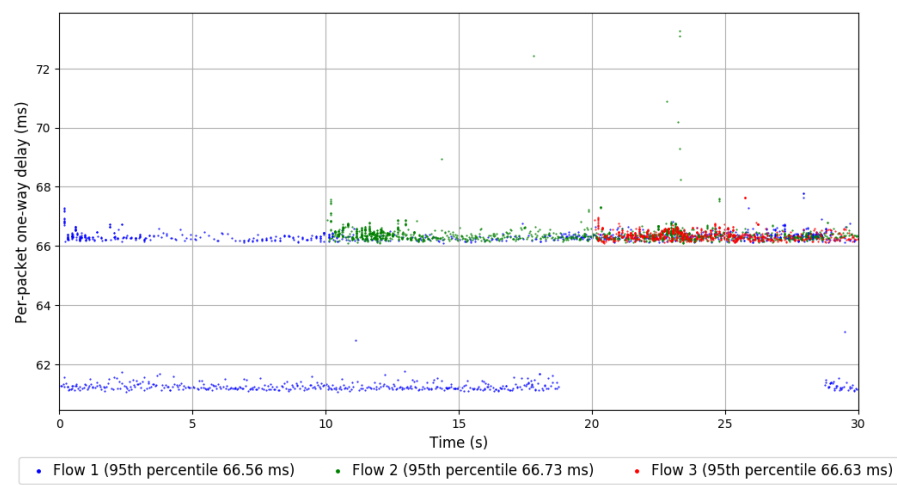
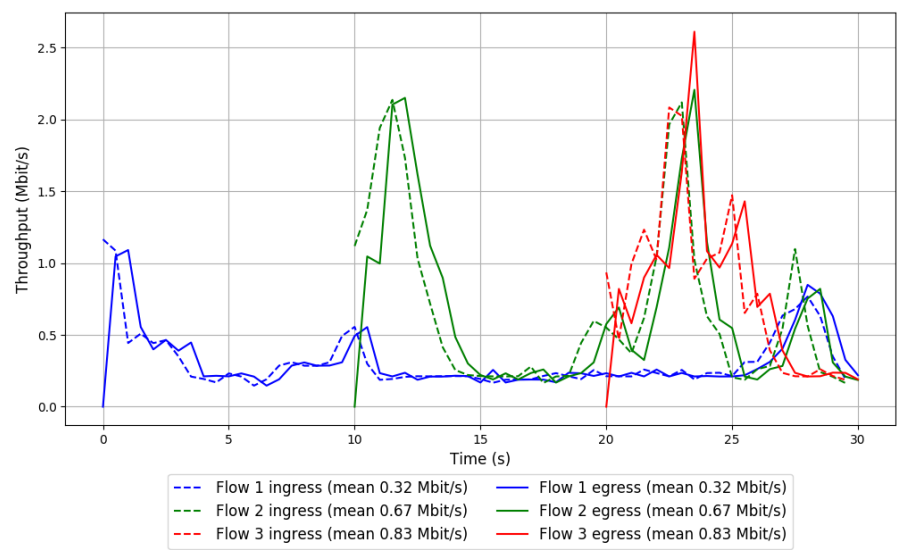


Run 3: Statistics of Sprout

Start at: 2018-05-23 00:45:58
End at: 2018-05-23 00:46:28
Local clock offset: 0.457 ms
Remote clock offset: -0.348 ms

```
# Below is generated by plot.py at 2018-05-23 05:02:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.04 Mbit/s
95th percentile per-packet one-way delay: 66.645 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 66.563 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 66.726 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.83 Mbit/s
95th percentile per-packet one-way delay: 66.628 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

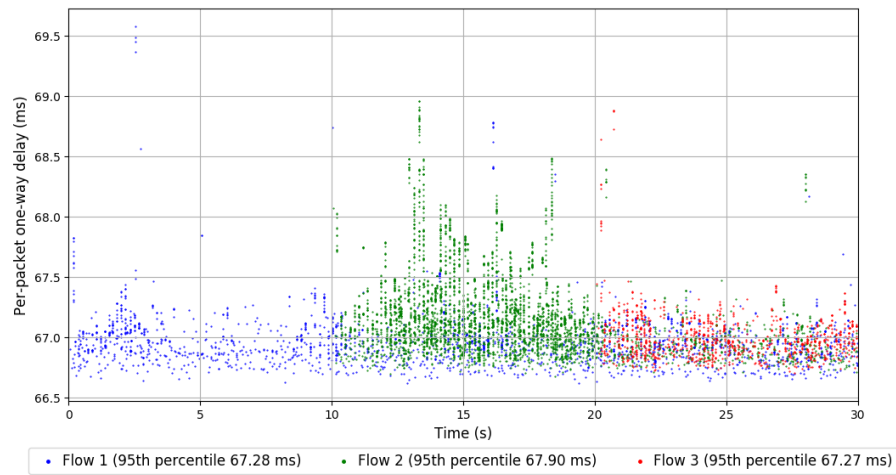
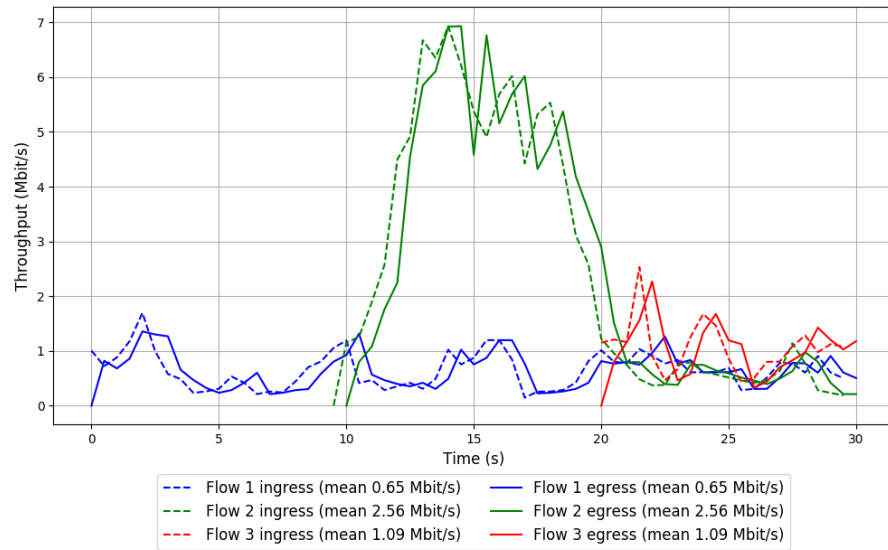


Run 4: Statistics of Sprout

Start at: 2018-05-23 01:08:36
End at: 2018-05-23 01:09:06
Local clock offset: -0.004 ms
Remote clock offset: 0.116 ms

```
# Below is generated by plot.py at 2018-05-23 05:02:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.71 Mbit/s
95th percentile per-packet one-way delay: 67.773 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 67.285 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.56 Mbit/s
95th percentile per-packet one-way delay: 67.902 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.09 Mbit/s
95th percentile per-packet one-way delay: 67.274 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

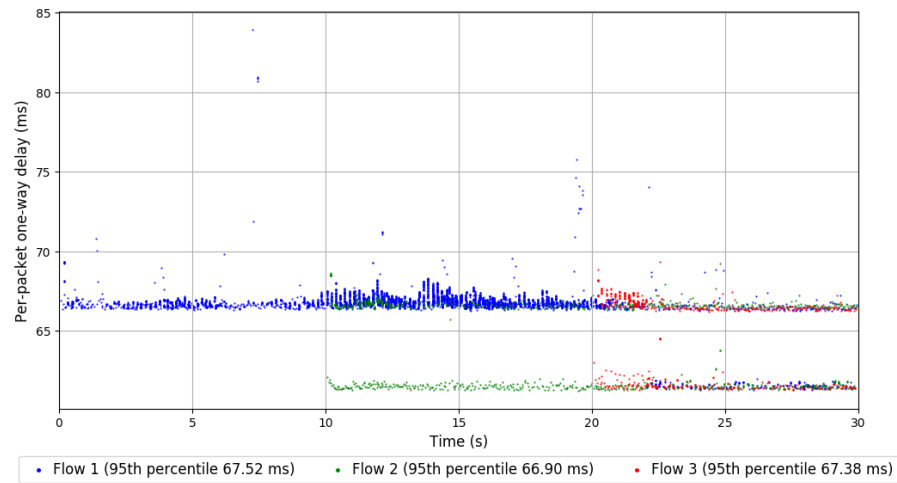
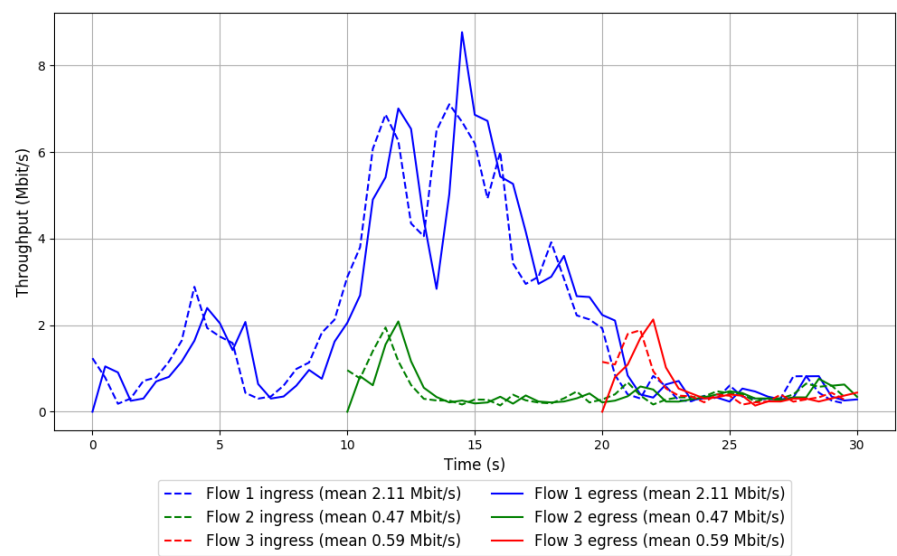


Run 5: Statistics of Sprout

Start at: 2018-05-23 01:31:15
End at: 2018-05-23 01:31:45
Local clock offset: 0.171 ms
Remote clock offset: -0.259 ms

Below is generated by plot.py at 2018-05-23 05:02:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.61 Mbit/s
95th percentile per-packet one-way delay: 67.487 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 67.520 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 66.900 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 67.380 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

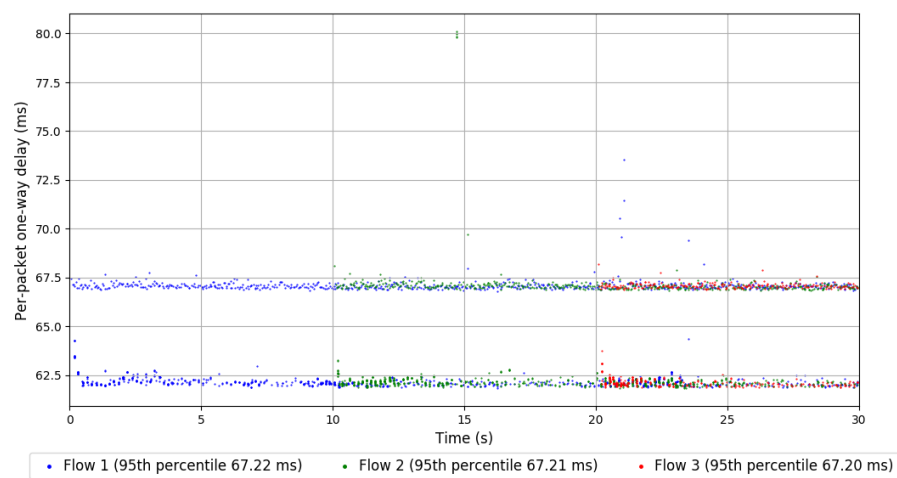
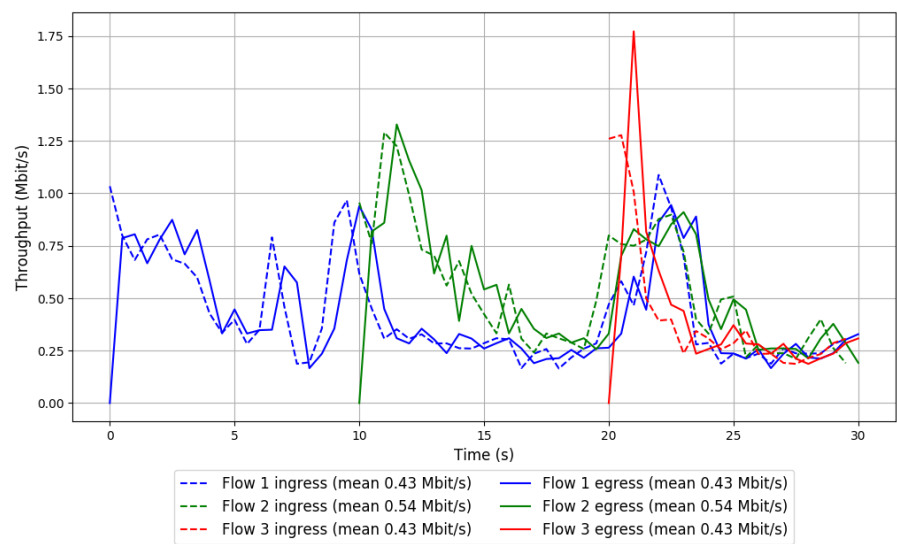


Run 6: Statistics of Sprout

Start at: 2018-05-23 01:53:07
End at: 2018-05-23 01:53:37
Local clock offset: 0.289 ms
Remote clock offset: 0.367 ms

Below is generated by plot.py at 2018-05-23 05:02:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 67.219 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 67.223 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 67.214 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 67.205 ms
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

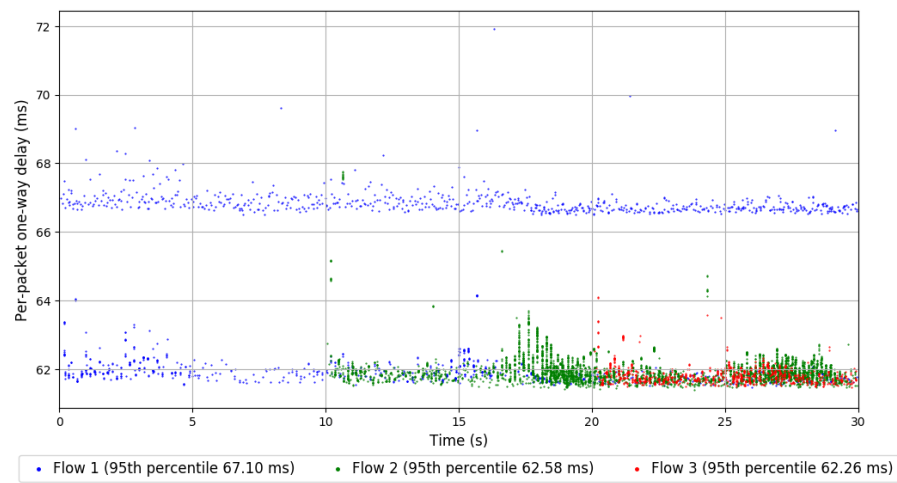
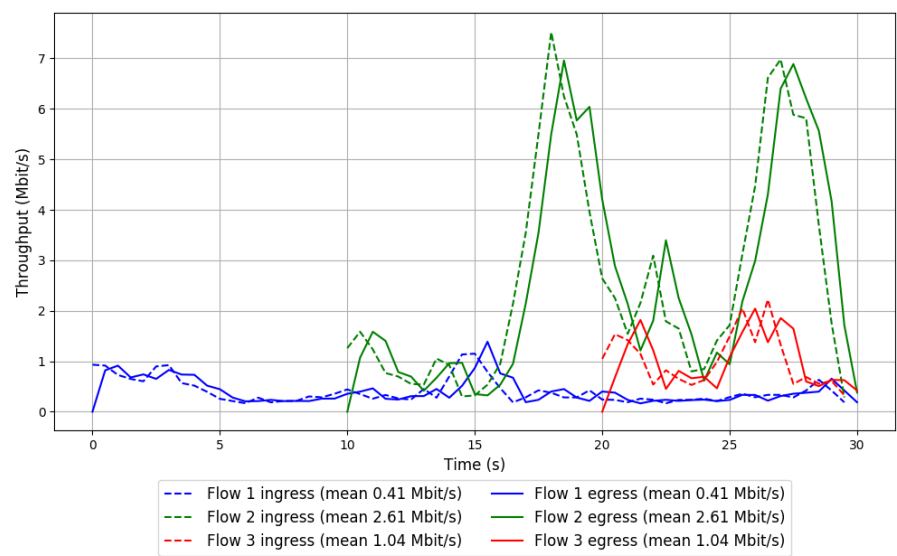


Run 7: Statistics of Sprout

Start at: 2018-05-23 02:15:11
End at: 2018-05-23 02:15:41
Local clock offset: -0.001 ms
Remote clock offset: -0.089 ms

Below is generated by plot.py at 2018-05-23 05:02:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.49 Mbit/s
95th percentile per-packet one-way delay: 66.785 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 67.103 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.61 Mbit/s
95th percentile per-packet one-way delay: 62.579 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.04 Mbit/s
95th percentile per-packet one-way delay: 62.256 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

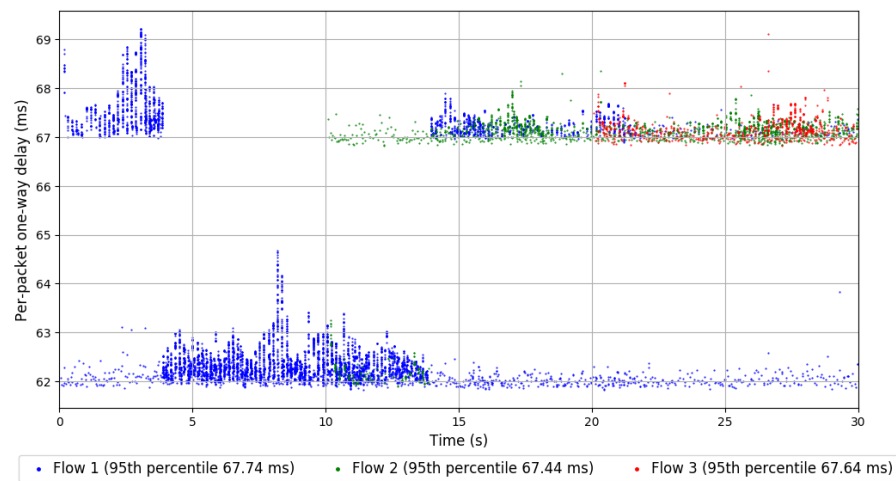
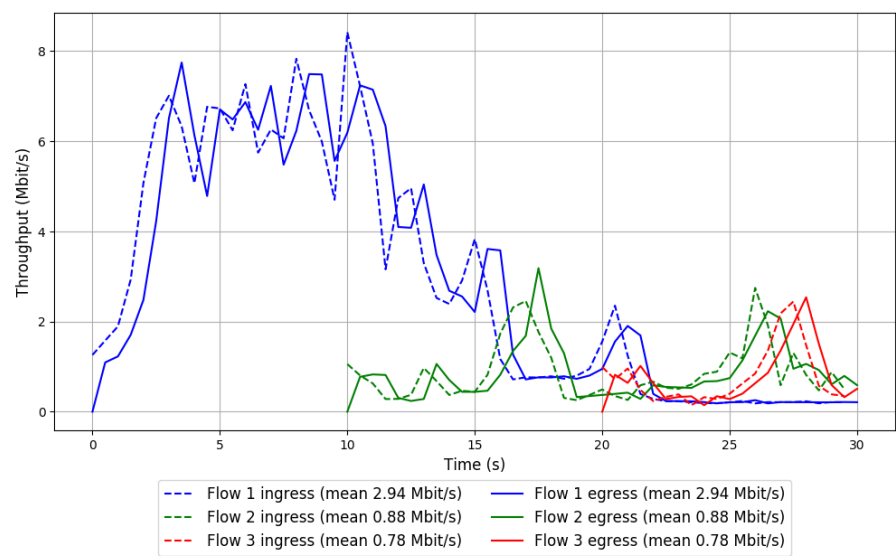


Run 8: Statistics of Sprout

Start at: 2018-05-23 02:37:33
End at: 2018-05-23 02:38:03
Local clock offset: 0.141 ms
Remote clock offset: 0.12 ms

Below is generated by plot.py at 2018-05-23 05:02:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.79 Mbit/s
95th percentile per-packet one-way delay: 67.663 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.94 Mbit/s
95th percentile per-packet one-way delay: 67.743 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.88 Mbit/s
95th percentile per-packet one-way delay: 67.436 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 67.635 ms
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

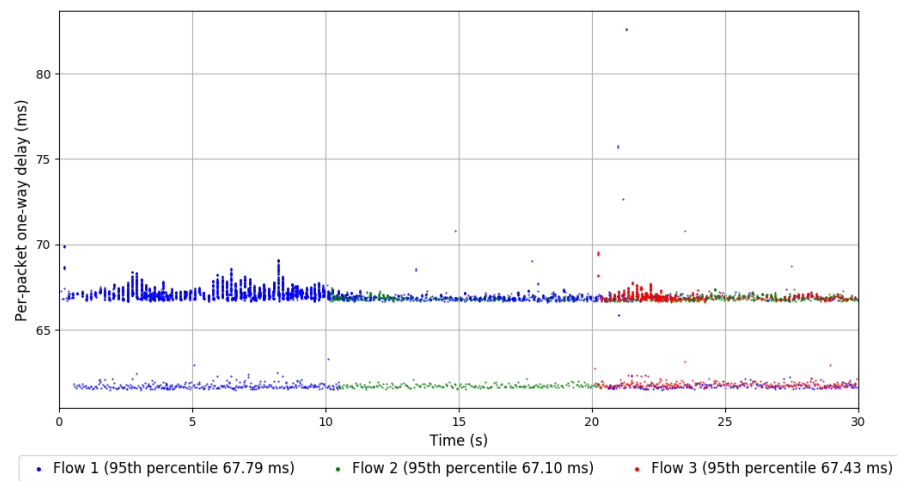
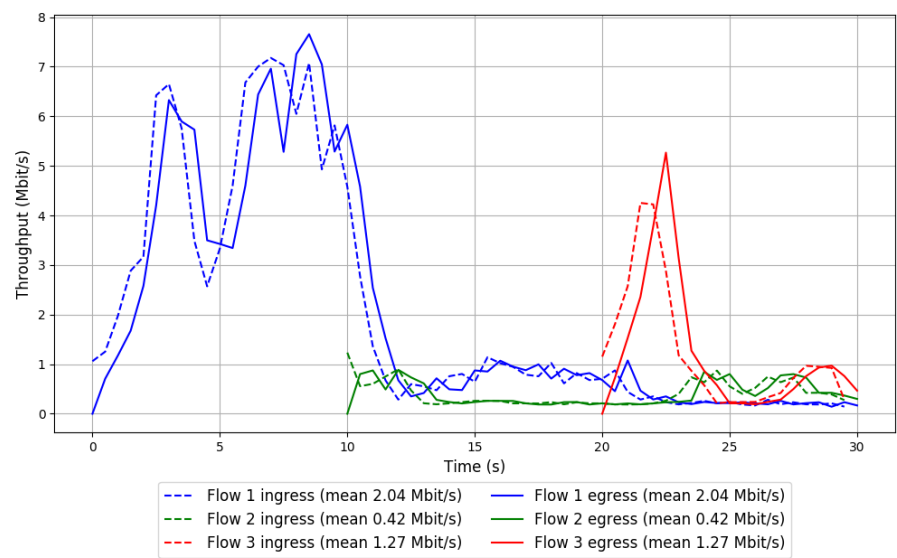


Run 9: Statistics of Sprout

Start at: 2018-05-23 02:59:36
End at: 2018-05-23 03:00:06
Local clock offset: 0.602 ms
Remote clock offset: -0.162 ms

Below is generated by plot.py at 2018-05-23 05:02:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.74 Mbit/s
95th percentile per-packet one-way delay: 67.718 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 67.786 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 67.101 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.27 Mbit/s
95th percentile per-packet one-way delay: 67.431 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

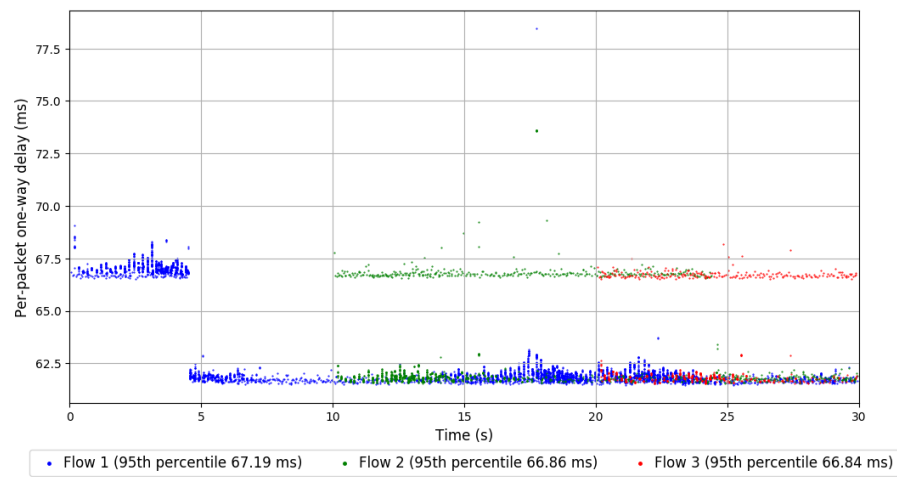
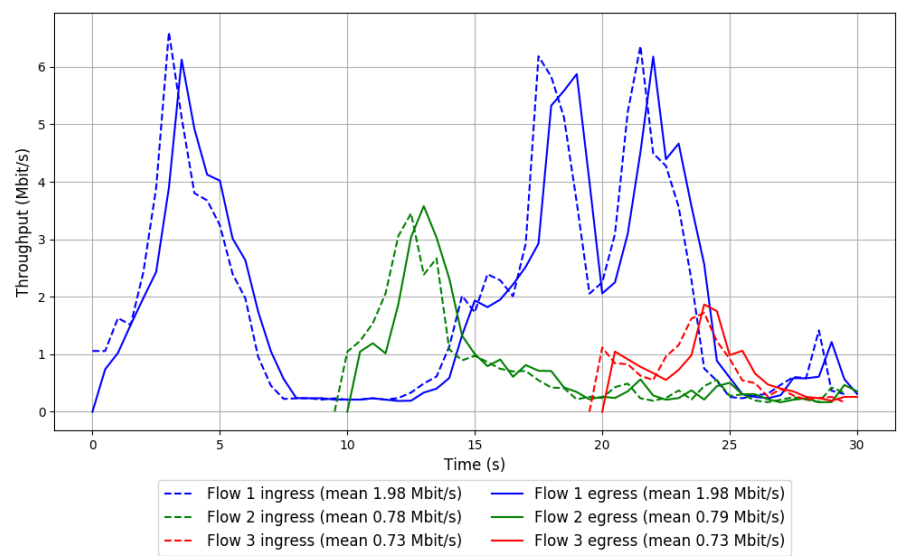


Run 10: Statistics of Sprout

Start at: 2018-05-23 03:22:02
End at: 2018-05-23 03:22:32
Local clock offset: 0.761 ms
Remote clock offset: -0.336 ms

Below is generated by plot.py at 2018-05-23 05:02:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.75 Mbit/s
95th percentile per-packet one-way delay: 67.120 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 67.185 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.79 Mbit/s
95th percentile per-packet one-way delay: 66.863 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.73 Mbit/s
95th percentile per-packet one-way delay: 66.837 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

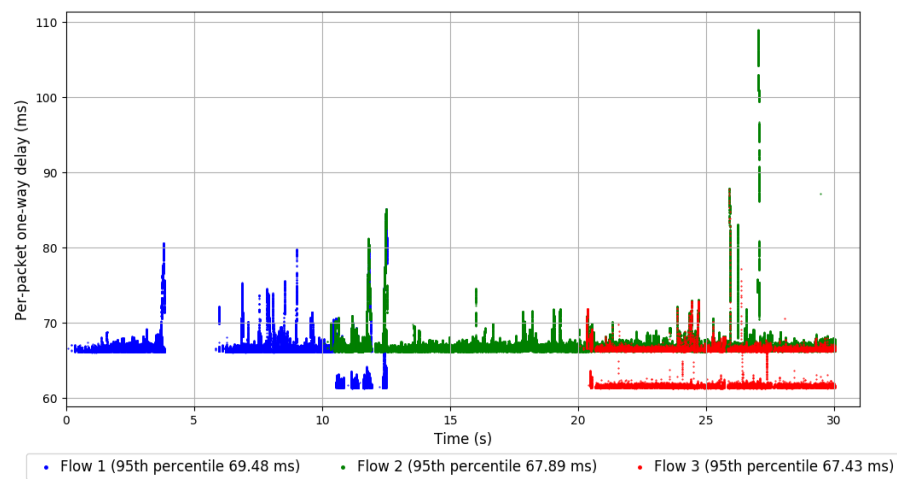
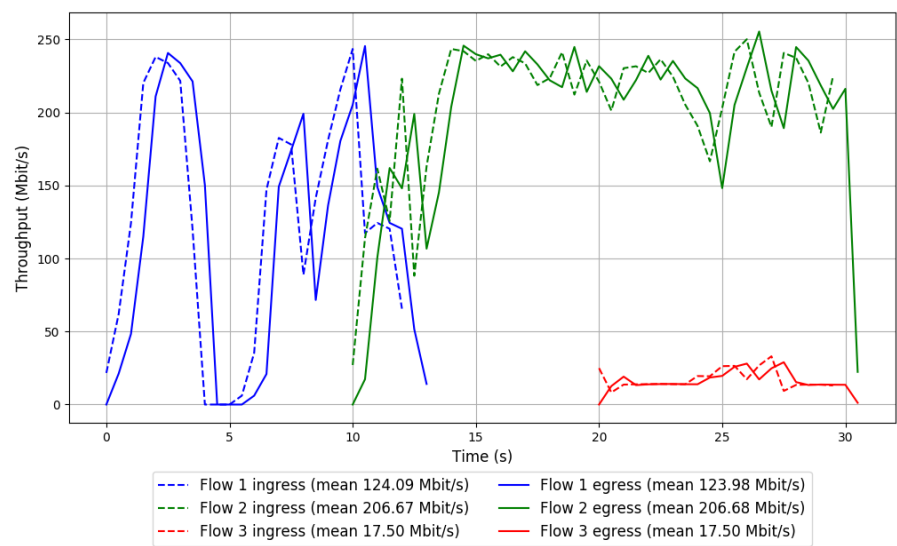


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-05-22 23:56:56
End at: 2018-05-22 23:57:26
Local clock offset: 0.035 ms
Remote clock offset: -0.238 ms

# Below is generated by plot.py at 2018-05-23 05:07:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 195.00 Mbit/s
95th percentile per-packet one-way delay: 68.139 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 123.98 Mbit/s
95th percentile per-packet one-way delay: 69.476 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 206.68 Mbit/s
95th percentile per-packet one-way delay: 67.895 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 17.50 Mbit/s
95th percentile per-packet one-way delay: 67.432 ms
Loss rate: 0.03%
```

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

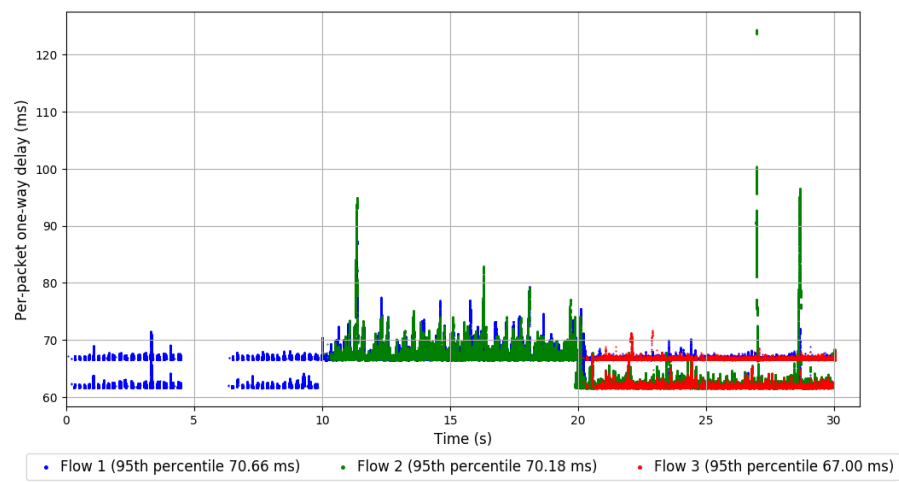
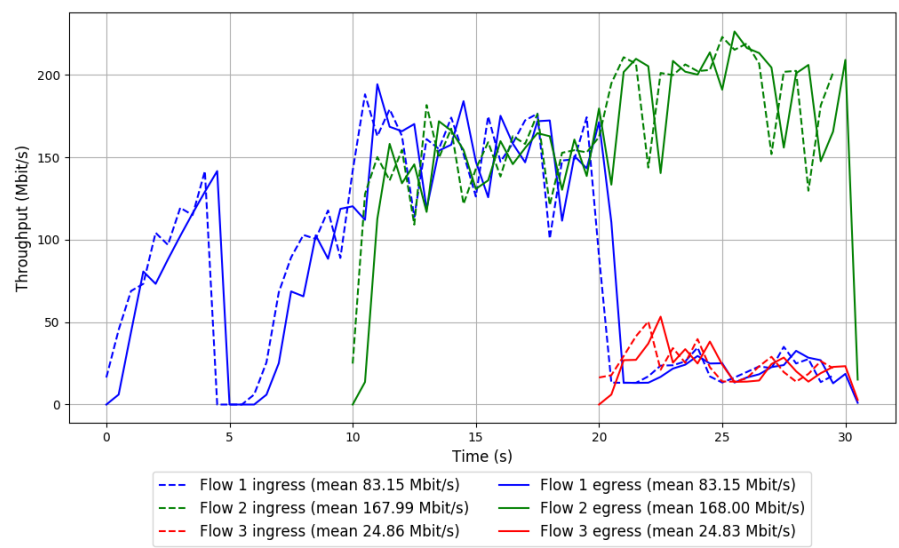


Run 2: Statistics of TaoVA-100x

Start at: 2018-05-23 00:19:17
End at: 2018-05-23 00:19:47
Local clock offset: 0.143 ms
Remote clock offset: -0.045 ms

Below is generated by plot.py at 2018-05-23 05:07:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 203.24 Mbit/s
95th percentile per-packet one-way delay: 70.314 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 83.15 Mbit/s
95th percentile per-packet one-way delay: 70.658 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 168.00 Mbit/s
95th percentile per-packet one-way delay: 70.178 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.83 Mbit/s
95th percentile per-packet one-way delay: 67.004 ms
Loss rate: 0.16%

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

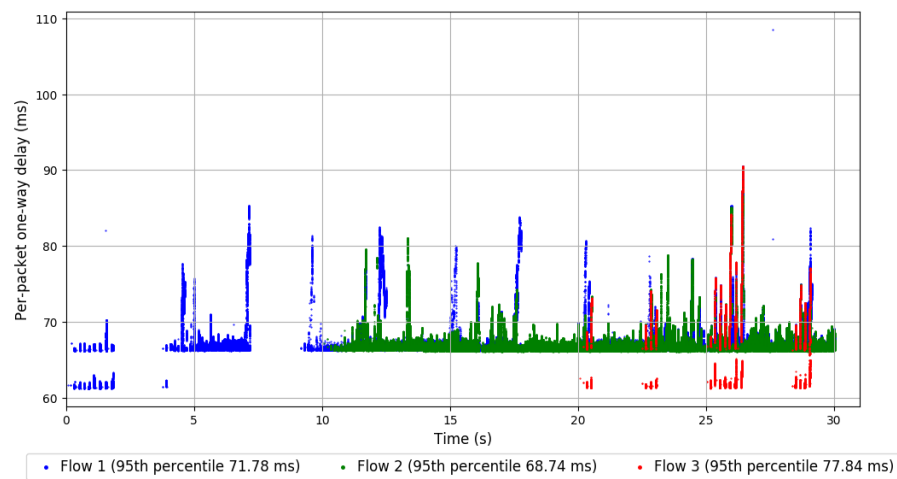
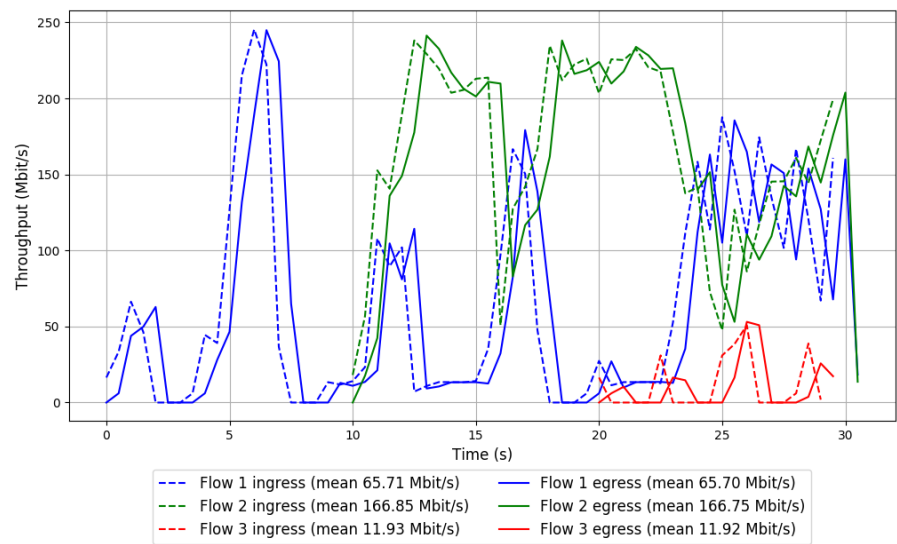


Run 3: Statistics of TaoVA-100x

Start at: 2018-05-23 00:41:43
End at: 2018-05-23 00:42:13
Local clock offset: 0.327 ms
Remote clock offset: -0.276 ms

Below is generated by plot.py at 2018-05-23 05:07:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 180.32 Mbit/s
95th percentile per-packet one-way delay: 69.911 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 65.70 Mbit/s
95th percentile per-packet one-way delay: 71.777 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 166.75 Mbit/s
95th percentile per-packet one-way delay: 68.742 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 11.92 Mbit/s
95th percentile per-packet one-way delay: 77.843 ms
Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-05-23 01:04:15

End at: 2018-05-23 01:04:45

Local clock offset: 0.054 ms

Remote clock offset: 0.298 ms

Below is generated by plot.py at 2018-05-23 05:07:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 192.55 Mbit/s

95th percentile per-packet one-way delay: 92.777 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 110.72 Mbit/s

95th percentile per-packet one-way delay: 85.779 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 75.47 Mbit/s

95th percentile per-packet one-way delay: 113.830 ms

Loss rate: 0.05%

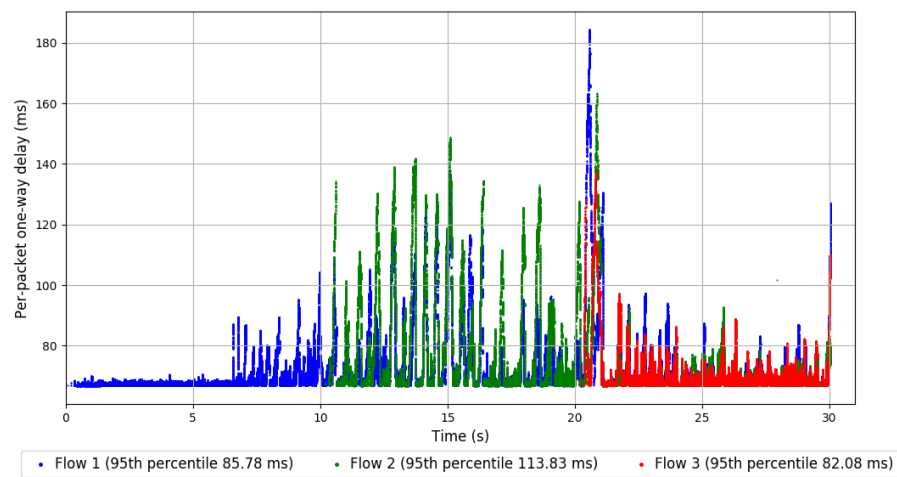
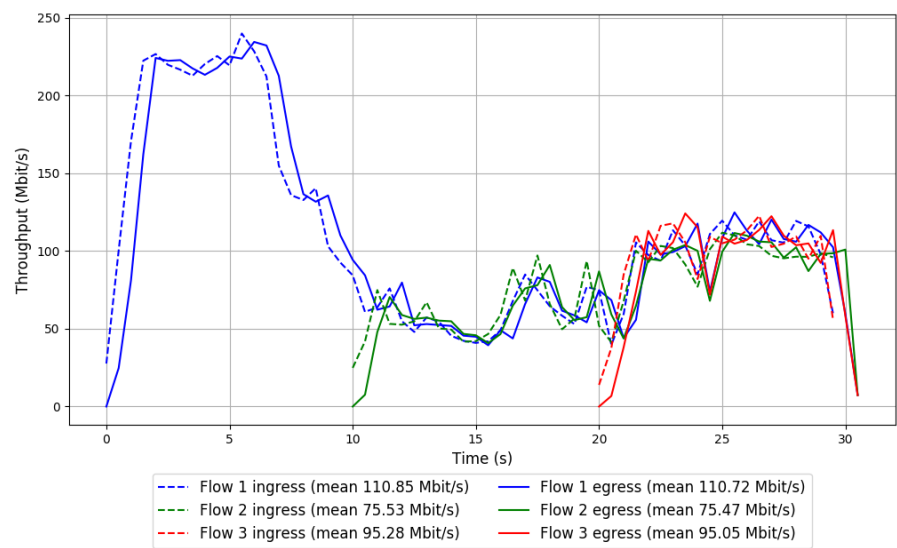
-- Flow 3:

Average throughput: 95.05 Mbit/s

95th percentile per-packet one-way delay: 82.075 ms

Loss rate: 0.19%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-05-23 01:26:54

End at: 2018-05-23 01:27:24

Local clock offset: -0.007 ms

Remote clock offset: 0.104 ms

Below is generated by plot.py at 2018-05-23 05:08:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 201.66 Mbit/s

95th percentile per-packet one-way delay: 72.198 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 115.46 Mbit/s

95th percentile per-packet one-way delay: 71.273 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 90.03 Mbit/s

95th percentile per-packet one-way delay: 74.410 ms

Loss rate: 0.00%

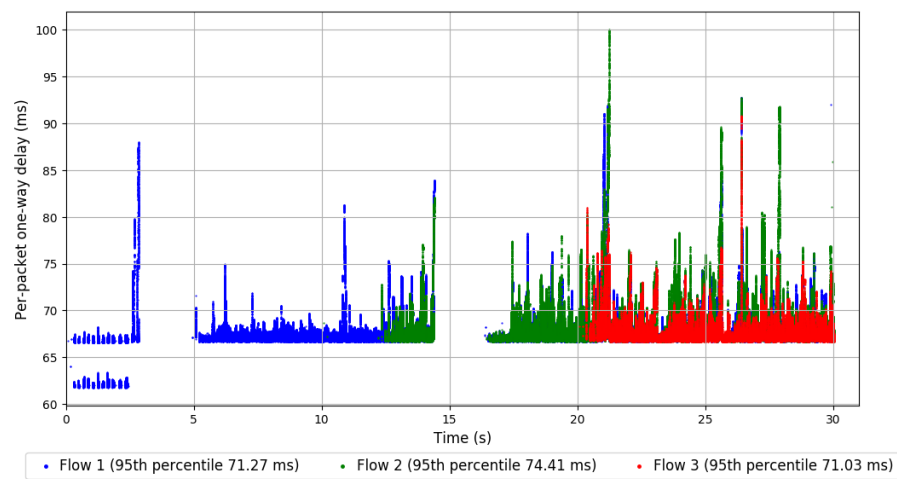
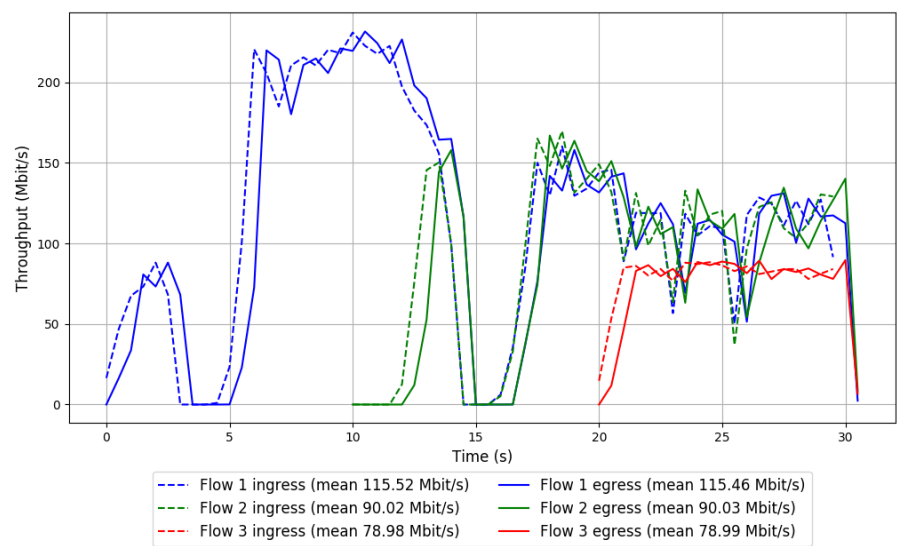
-- Flow 3:

Average throughput: 78.99 Mbit/s

95th percentile per-packet one-way delay: 71.025 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-05-23 01:49:16

End at: 2018-05-23 01:49:46

Local clock offset: 0.225 ms

Remote clock offset: 0.205 ms

Below is generated by plot.py at 2018-05-23 05:08:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.43 Mbit/s

95th percentile per-packet one-way delay: 67.940 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 37.55 Mbit/s

95th percentile per-packet one-way delay: 68.169 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 16.98 Mbit/s

95th percentile per-packet one-way delay: 67.189 ms

Loss rate: 0.00%

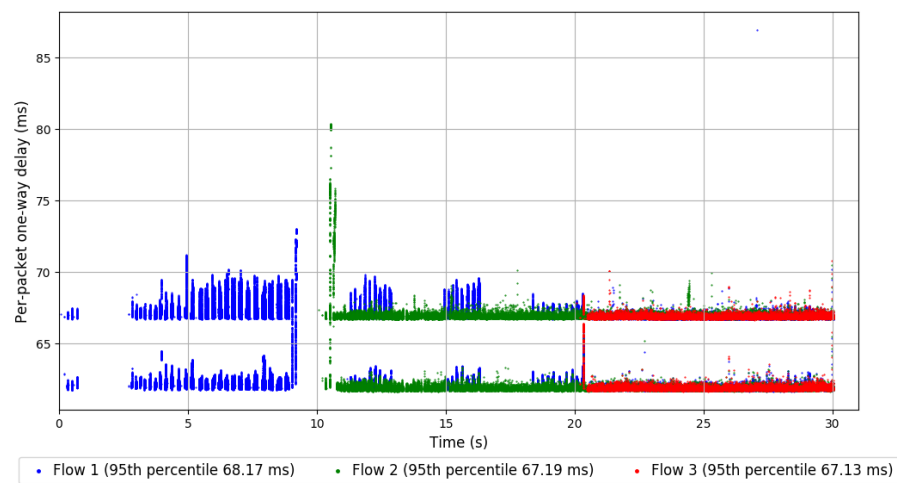
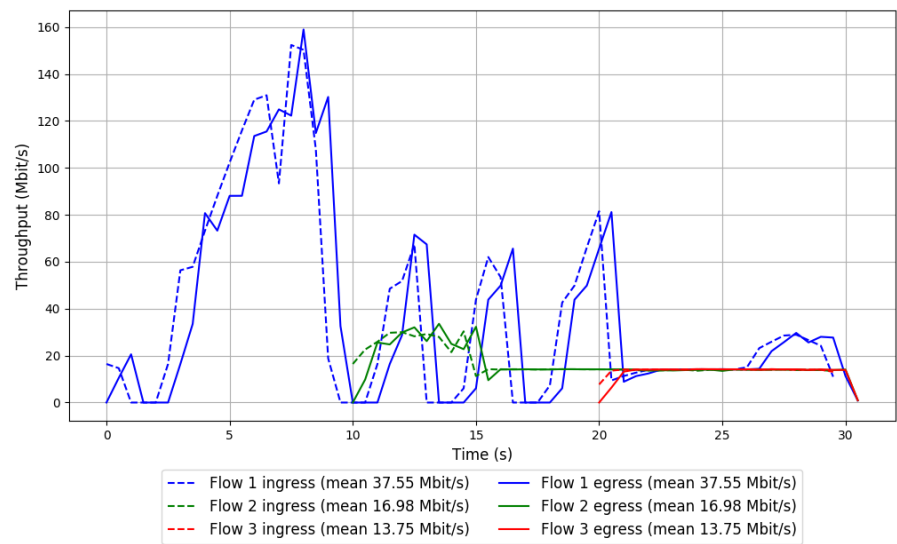
-- Flow 3:

Average throughput: 13.75 Mbit/s

95th percentile per-packet one-way delay: 67.128 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-05-23 02:11:10

End at: 2018-05-23 02:11:40

Local clock offset: -0.002 ms

Remote clock offset: 0.198 ms

Below is generated by plot.py at 2018-05-23 05:08:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 157.27 Mbit/s

95th percentile per-packet one-way delay: 67.134 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 34.73 Mbit/s

95th percentile per-packet one-way delay: 67.517 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 175.09 Mbit/s

95th percentile per-packet one-way delay: 63.476 ms

Loss rate: 0.00%

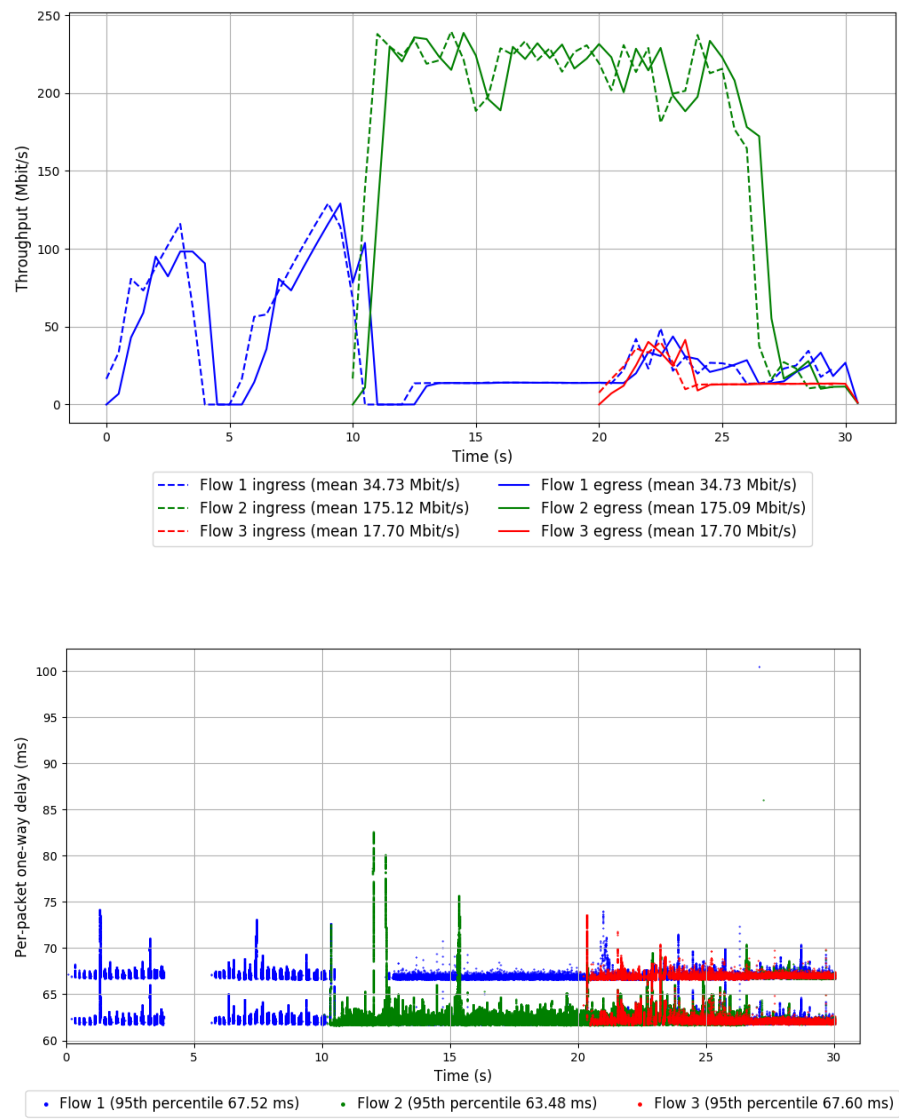
-- Flow 3:

Average throughput: 17.70 Mbit/s

95th percentile per-packet one-way delay: 67.597 ms

Loss rate: 0.00%

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

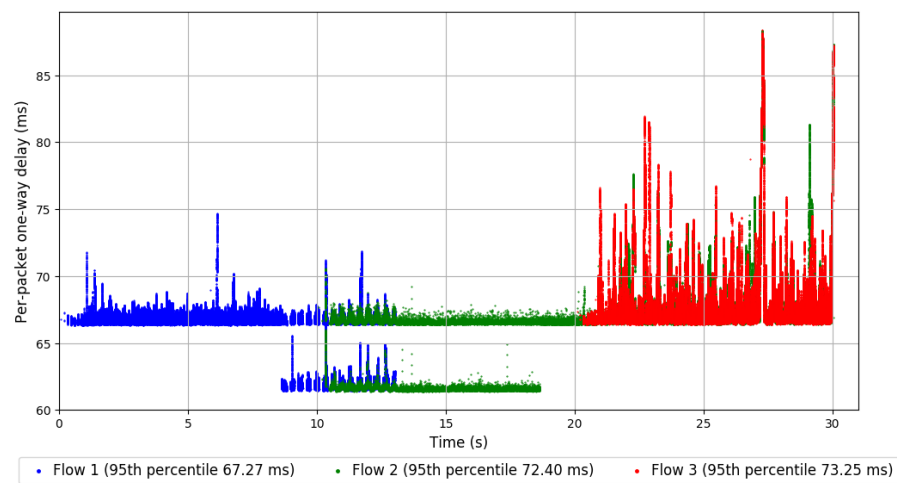
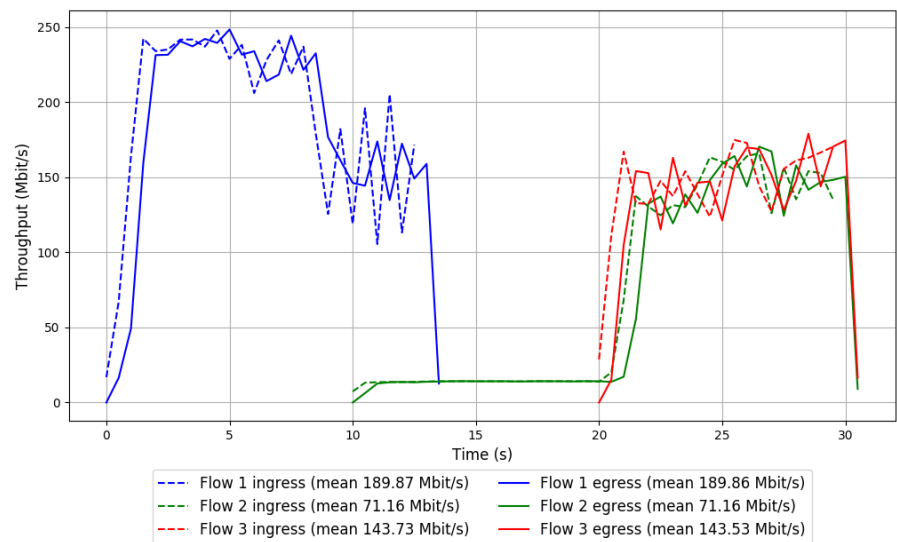


Run 8: Statistics of TaoVA-100x

Start at: 2018-05-23 02:33:18
End at: 2018-05-23 02:33:48
Local clock offset: -0.088 ms
Remote clock offset: -0.283 ms

Below is generated by plot.py at 2018-05-23 05:09:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 177.15 Mbit/s
95th percentile per-packet one-way delay: 70.785 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 189.86 Mbit/s
95th percentile per-packet one-way delay: 67.273 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 71.16 Mbit/s
95th percentile per-packet one-way delay: 72.404 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 143.53 Mbit/s
95th percentile per-packet one-way delay: 73.255 ms
Loss rate: 0.07%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-05-23 02:55:26

End at: 2018-05-23 02:55:56

Local clock offset: 0.574 ms

Remote clock offset: 0.151 ms

Below is generated by plot.py at 2018-05-23 05:09:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.96 Mbit/s

95th percentile per-packet one-way delay: 67.204 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 83.48 Mbit/s

95th percentile per-packet one-way delay: 67.049 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 13.78 Mbit/s

95th percentile per-packet one-way delay: 67.400 ms

Loss rate: 0.00%

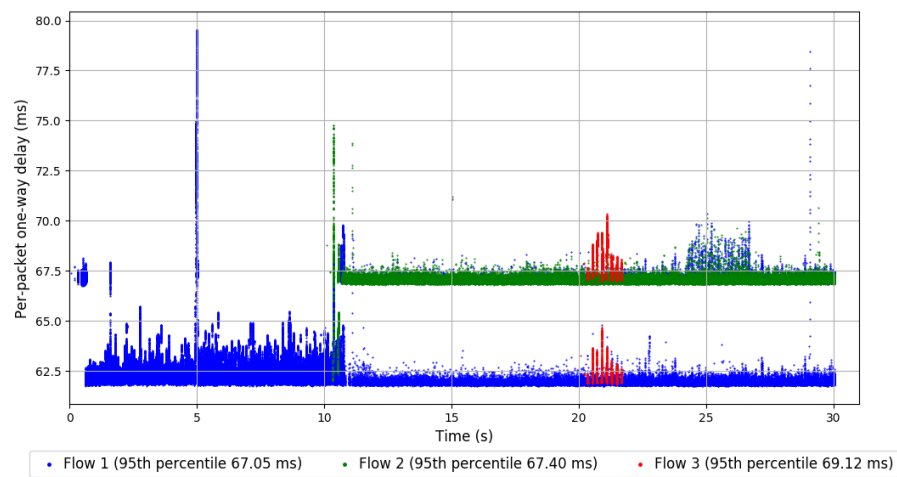
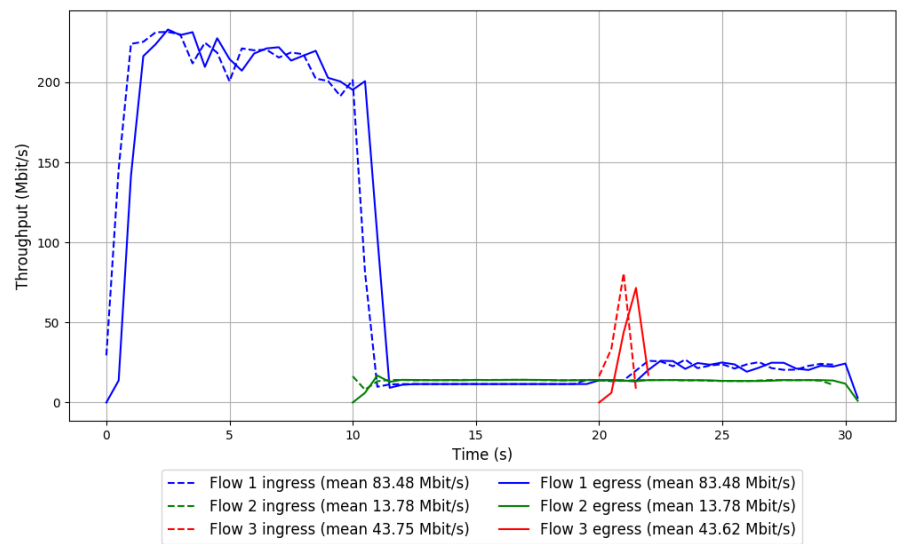
-- Flow 3:

Average throughput: 43.62 Mbit/s

95th percentile per-packet one-way delay: 69.123 ms

Loss rate: 0.00%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-05-23 03:17:43

End at: 2018-05-23 03:18:13

Local clock offset: 0.758 ms

Remote clock offset: 0.149 ms

Below is generated by plot.py at 2018-05-23 05:14:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 189.41 Mbit/s

95th percentile per-packet one-way delay: 71.820 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 156.43 Mbit/s

95th percentile per-packet one-way delay: 70.234 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 15.20 Mbit/s

95th percentile per-packet one-way delay: 79.765 ms

Loss rate: 0.00%

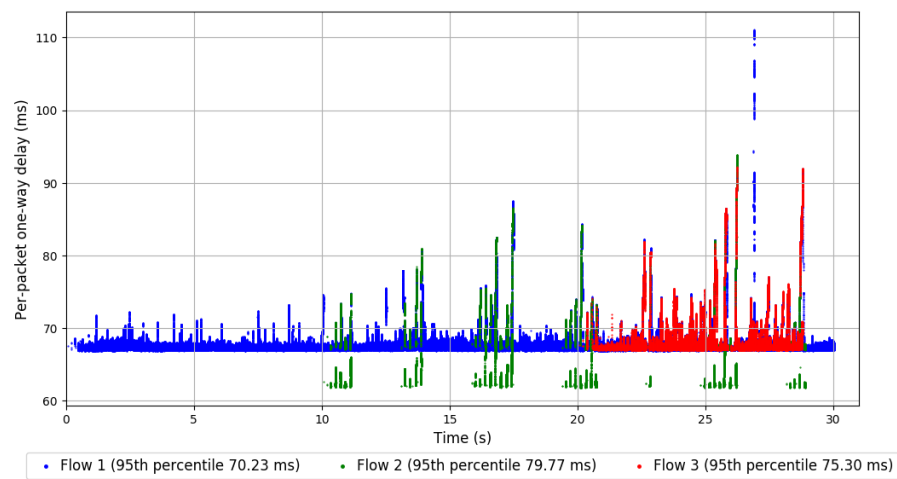
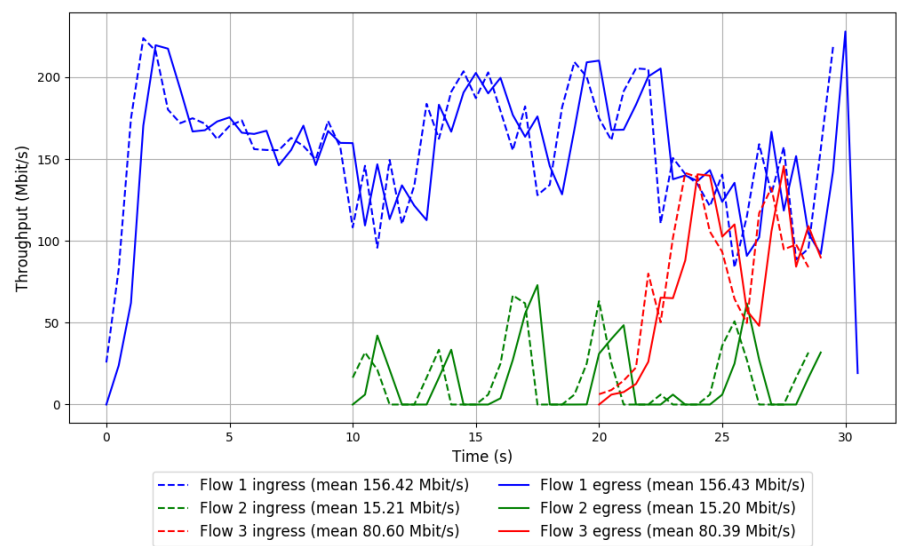
-- Flow 3:

Average throughput: 80.39 Mbit/s

95th percentile per-packet one-way delay: 75.303 ms

Loss rate: 0.00%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-05-22 23:50:21

End at: 2018-05-22 23:50:51

Local clock offset: 0.075 ms

Remote clock offset: 0.058 ms

Below is generated by plot.py at 2018-05-23 05:14:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 136.36 Mbit/s

95th percentile per-packet one-way delay: 67.572 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 101.01 Mbit/s

95th percentile per-packet one-way delay: 67.544 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.38 Mbit/s

95th percentile per-packet one-way delay: 67.784 ms

Loss rate: 0.00%

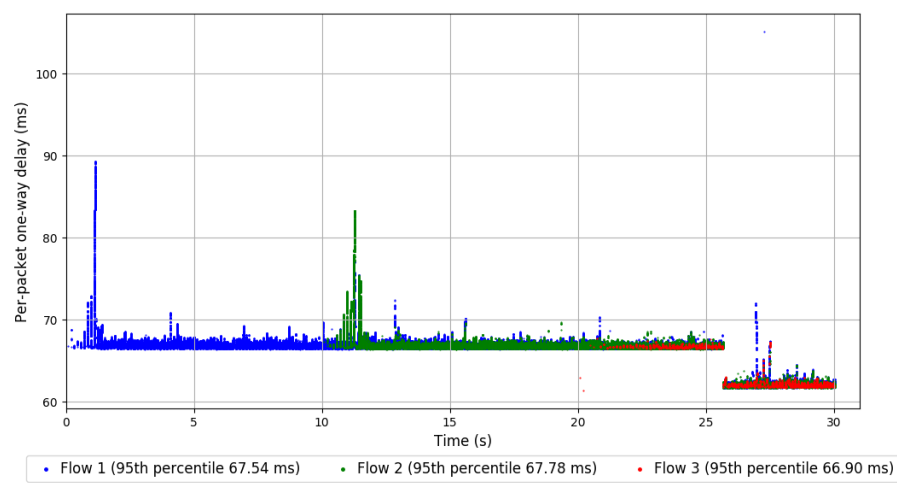
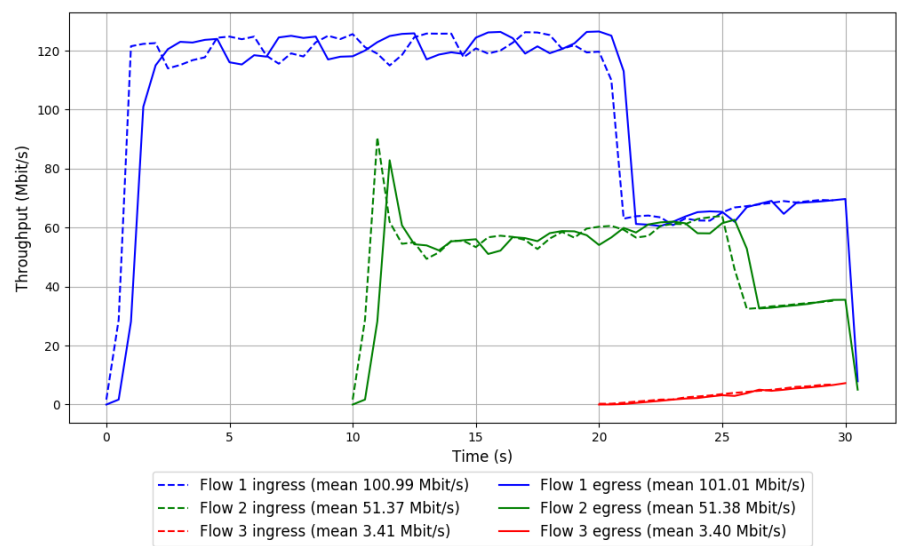
-- Flow 3:

Average throughput: 3.40 Mbit/s

95th percentile per-packet one-way delay: 66.904 ms

Loss rate: 0.35%

Run 1: Report of TCP Vegas — Data Link

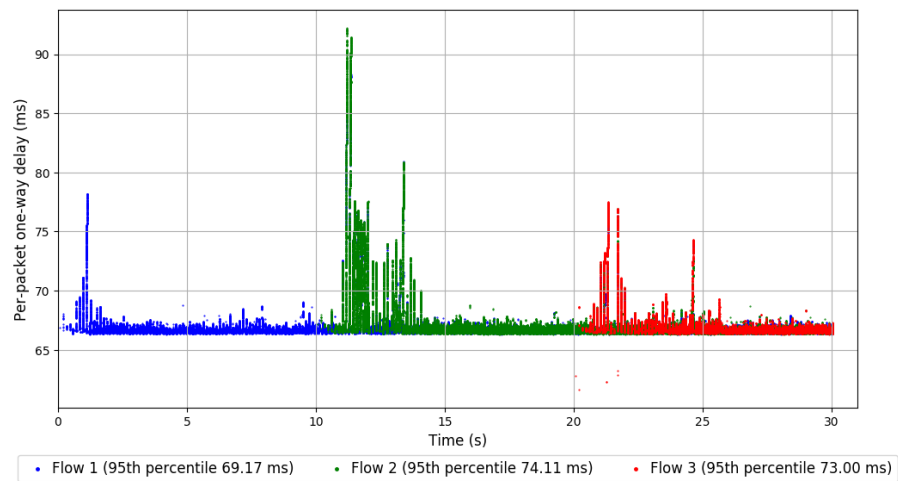
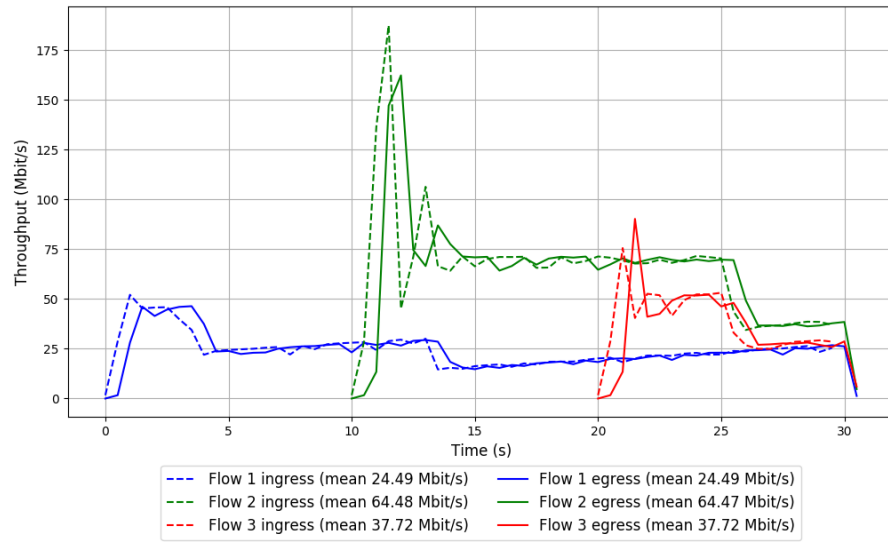


Run 2: Statistics of TCP Vegas

Start at: 2018-05-23 00:12:32
End at: 2018-05-23 00:13:02
Local clock offset: 0.1 ms
Remote clock offset: -0.058 ms

Below is generated by plot.py at 2018-05-23 05:14:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.96 Mbit/s
95th percentile per-packet one-way delay: 73.215 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 24.49 Mbit/s
95th percentile per-packet one-way delay: 69.167 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 64.47 Mbit/s
95th percentile per-packet one-way delay: 74.113 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 37.72 Mbit/s
95th percentile per-packet one-way delay: 72.996 ms
Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-05-23 00:35:00

End at: 2018-05-23 00:35:30

Local clock offset: 0.236 ms

Remote clock offset: 0.043 ms

Below is generated by plot.py at 2018-05-23 05:14:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 168.46 Mbit/s

95th percentile per-packet one-way delay: 77.561 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 98.76 Mbit/s

95th percentile per-packet one-way delay: 76.935 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.34 Mbit/s

95th percentile per-packet one-way delay: 75.957 ms

Loss rate: 0.00%

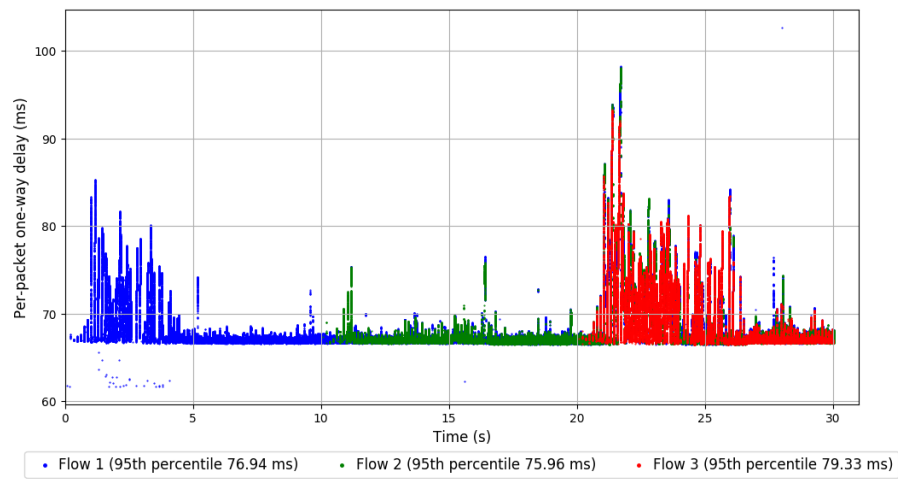
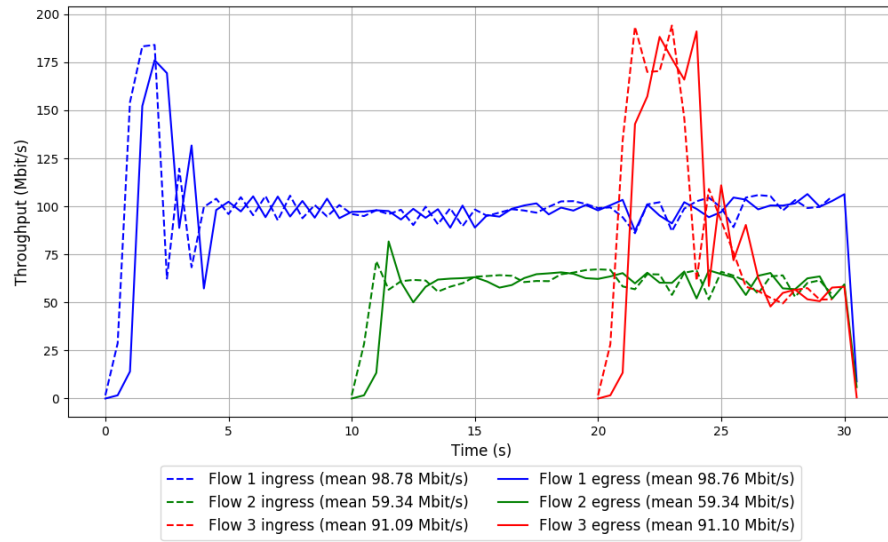
-- Flow 3:

Average throughput: 91.10 Mbit/s

95th percentile per-packet one-way delay: 79.330 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-05-23 00:57:27

End at: 2018-05-23 00:57:57

Local clock offset: 0.061 ms

Remote clock offset: 0.062 ms

Below is generated by plot.py at 2018-05-23 05:14:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 155.85 Mbit/s

95th percentile per-packet one-way delay: 75.918 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.99 Mbit/s

95th percentile per-packet one-way delay: 73.527 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 74.17 Mbit/s

95th percentile per-packet one-way delay: 74.643 ms

Loss rate: 0.00%

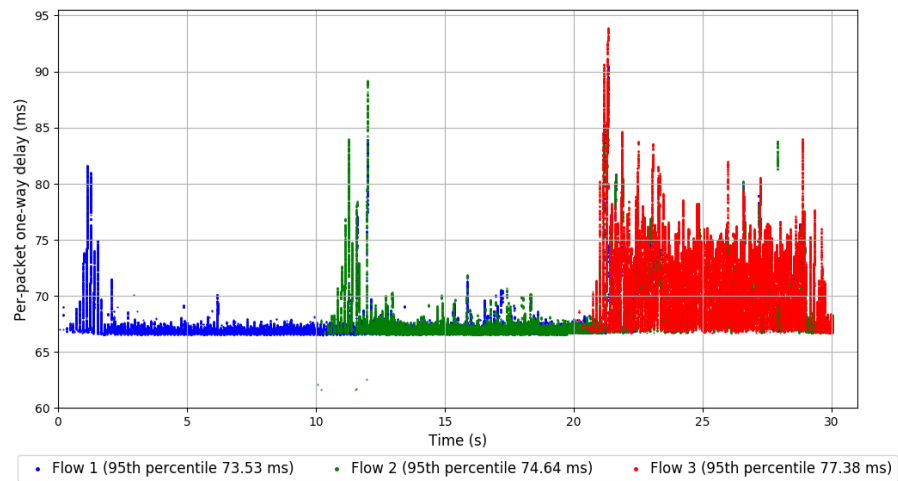
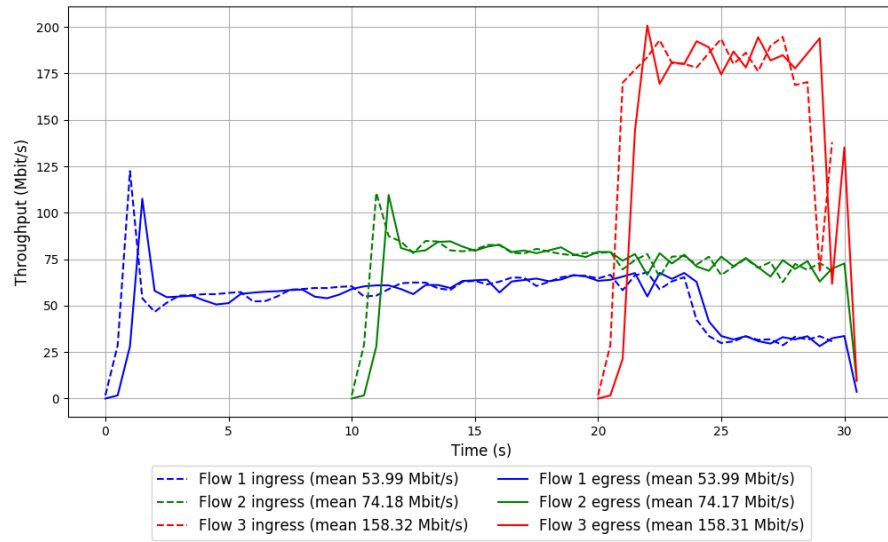
-- Flow 3:

Average throughput: 158.31 Mbit/s

95th percentile per-packet one-way delay: 77.382 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link

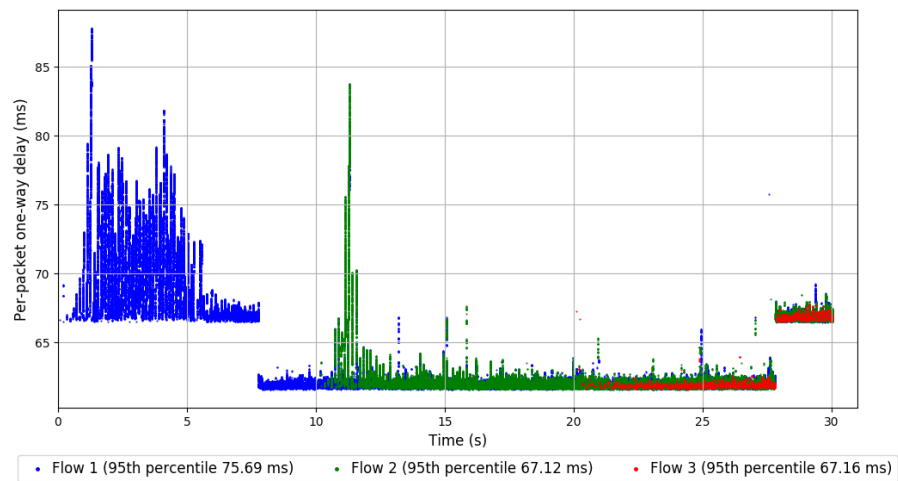
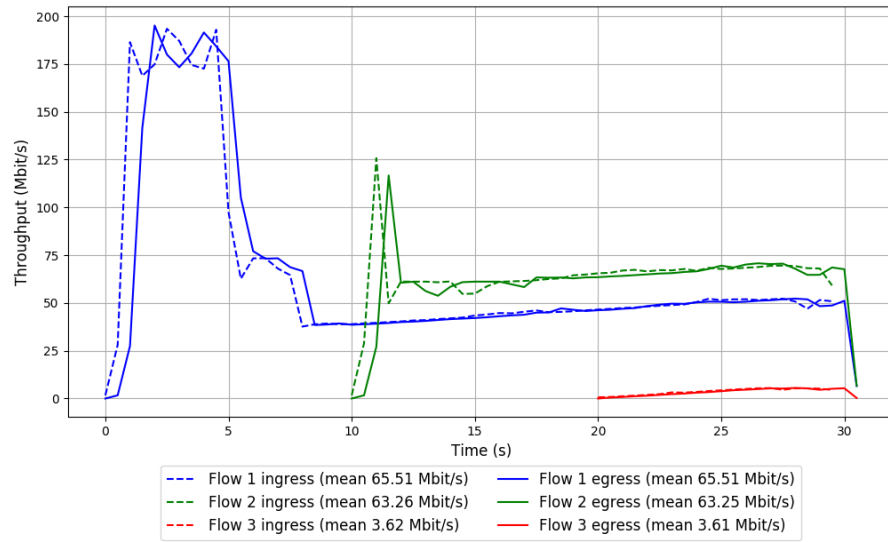


Run 5: Statistics of TCP Vegas

Start at: 2018-05-23 01:20:09
End at: 2018-05-23 01:20:39
Local clock offset: 0.032 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-05-23 05:14:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 108.84 Mbit/s
95th percentile per-packet one-way delay: 74.435 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 65.51 Mbit/s
95th percentile per-packet one-way delay: 75.688 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 63.25 Mbit/s
95th percentile per-packet one-way delay: 67.120 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.61 Mbit/s
95th percentile per-packet one-way delay: 67.159 ms
Loss rate: 0.17%

Run 5: Report of TCP Vegas — Data Link

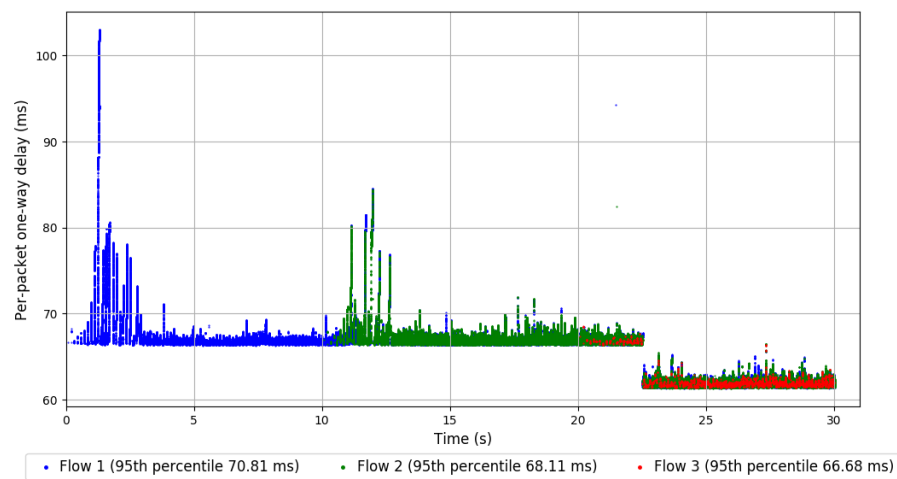
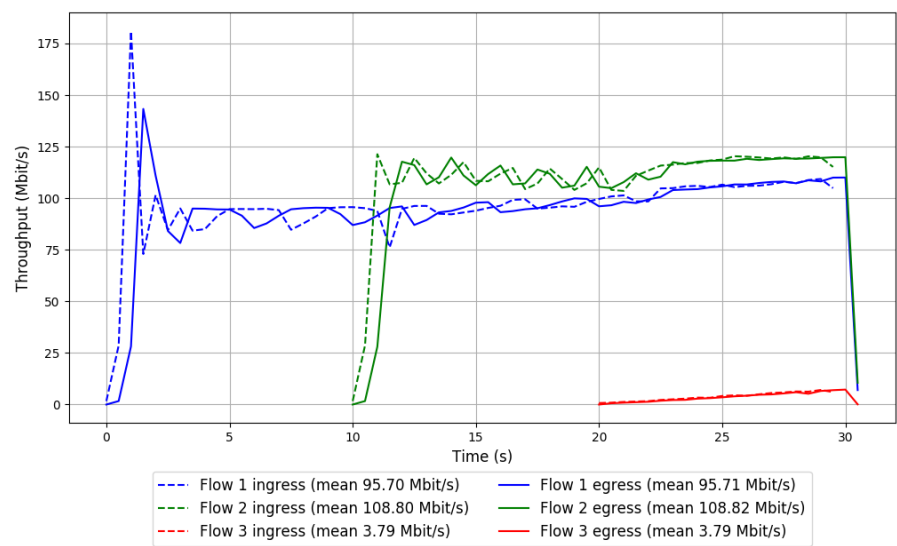


Run 6: Statistics of TCP Vegas

Start at: 2018-05-23 01:42:34
End at: 2018-05-23 01:43:04
Local clock offset: 0.172 ms
Remote clock offset: -0.248 ms

Below is generated by plot.py at 2018-05-23 05:14:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 169.46 Mbit/s
95th percentile per-packet one-way delay: 69.117 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.71 Mbit/s
95th percentile per-packet one-way delay: 70.815 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 108.82 Mbit/s
95th percentile per-packet one-way delay: 68.111 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.79 Mbit/s
95th percentile per-packet one-way delay: 66.683 ms
Loss rate: 0.13%

Run 6: Report of TCP Vegas — Data Link

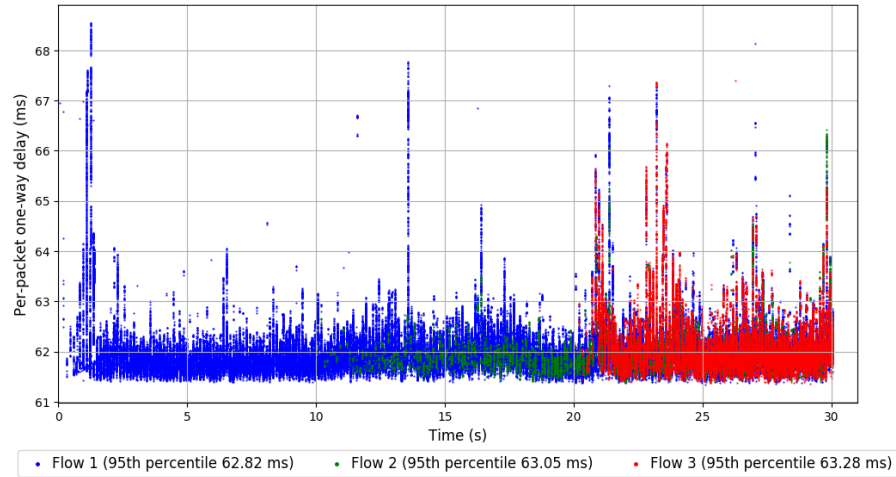
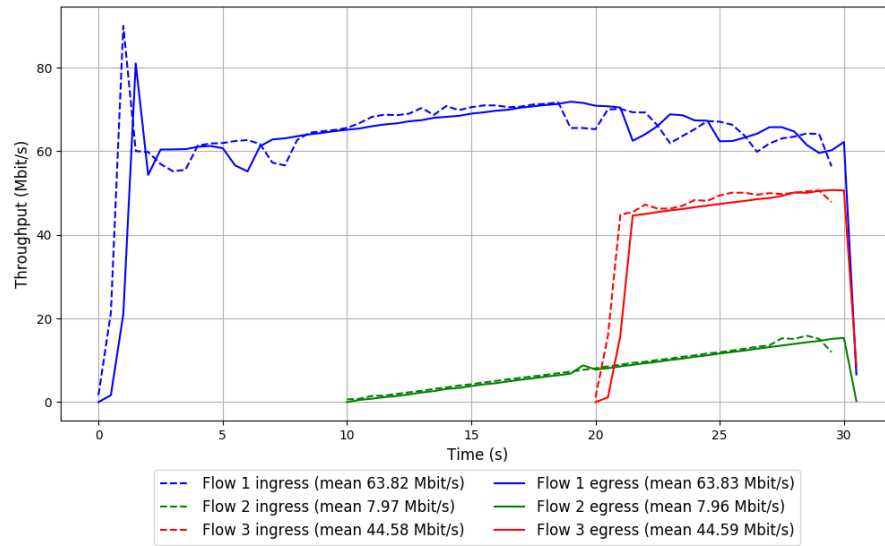


Run 7: Statistics of TCP Vegas

Start at: 2018-05-23 02:04:37
End at: 2018-05-23 02:05:07
Local clock offset: 0.089 ms
Remote clock offset: -0.053 ms

Below is generated by plot.py at 2018-05-23 05:14:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.95 Mbit/s
95th percentile per-packet one-way delay: 62.949 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.83 Mbit/s
95th percentile per-packet one-way delay: 62.824 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.96 Mbit/s
95th percentile per-packet one-way delay: 63.045 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 44.59 Mbit/s
95th percentile per-packet one-way delay: 63.281 ms
Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link

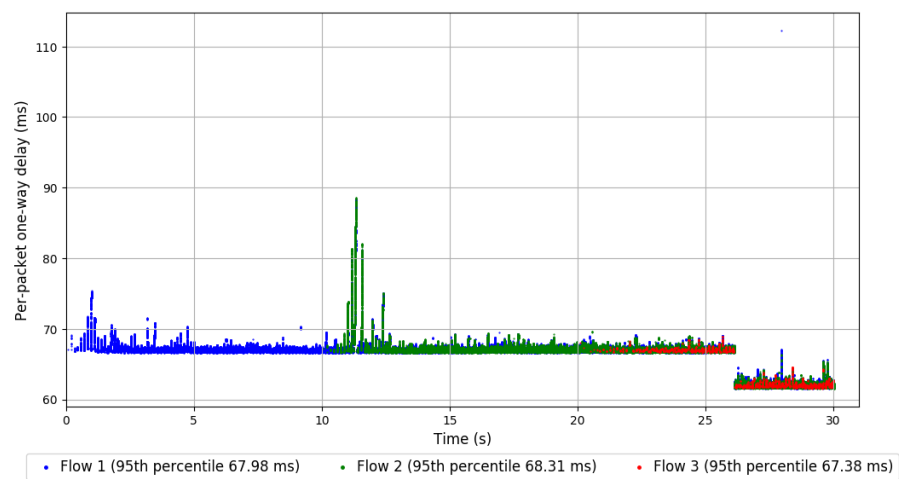
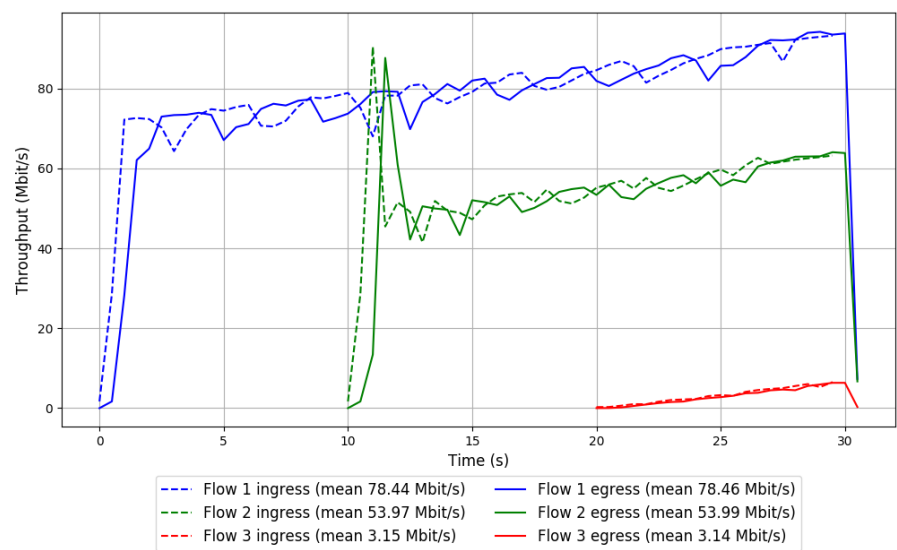


Run 8: Statistics of TCP Vegas

Start at: 2018-05-23 02:26:41
End at: 2018-05-23 02:27:11
Local clock offset: -0.103 ms
Remote clock offset: -0.109 ms

Below is generated by plot.py at 2018-05-23 05:14:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 115.44 Mbit/s
95th percentile per-packet one-way delay: 68.059 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 78.46 Mbit/s
95th percentile per-packet one-way delay: 67.977 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 53.99 Mbit/s
95th percentile per-packet one-way delay: 68.310 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.14 Mbit/s
95th percentile per-packet one-way delay: 67.382 ms
Loss rate: 0.38%

Run 8: Report of TCP Vegas — Data Link

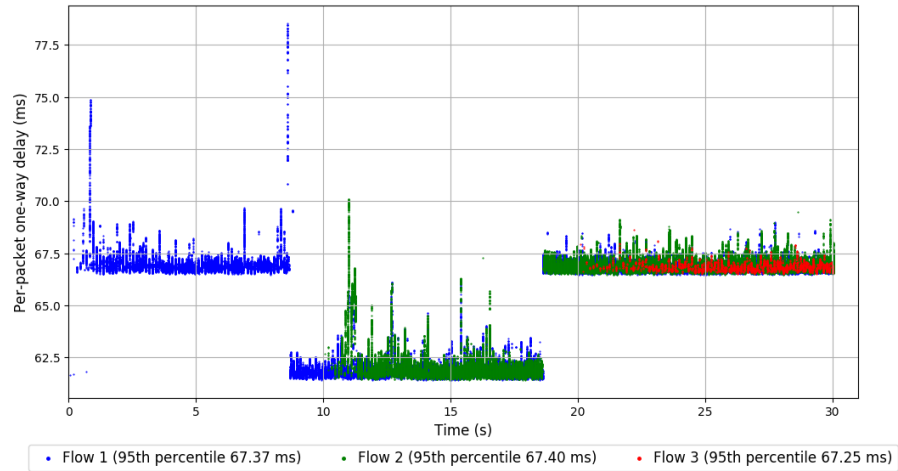
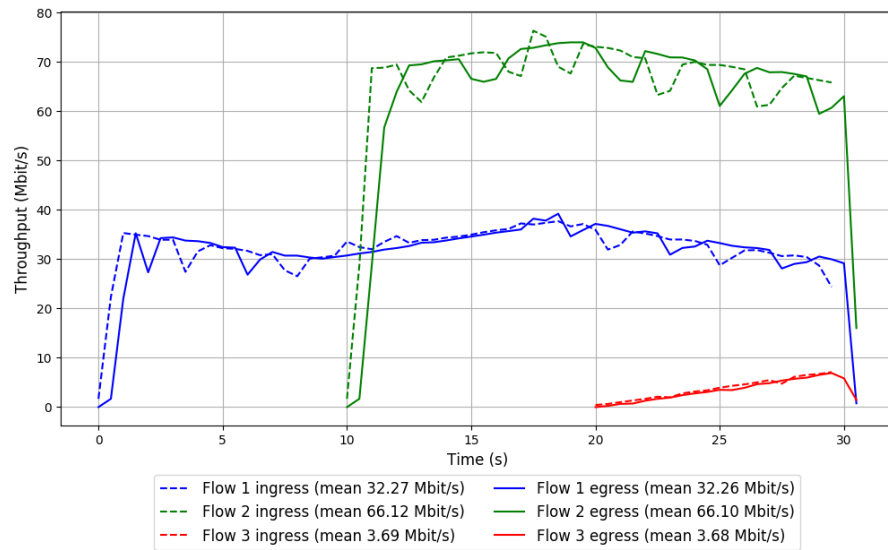


Run 9: Statistics of TCP Vegas

Start at: 2018-05-23 02:48:48
End at: 2018-05-23 02:49:18
Local clock offset: 0.501 ms
Remote clock offset: -0.199 ms

Below is generated by plot.py at 2018-05-23 05:14:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.50 Mbit/s
95th percentile per-packet one-way delay: 67.388 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.26 Mbit/s
95th percentile per-packet one-way delay: 67.374 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 66.10 Mbit/s
95th percentile per-packet one-way delay: 67.401 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.68 Mbit/s
95th percentile per-packet one-way delay: 67.253 ms
Loss rate: 0.26%

Run 9: Report of TCP Vegas — Data Link

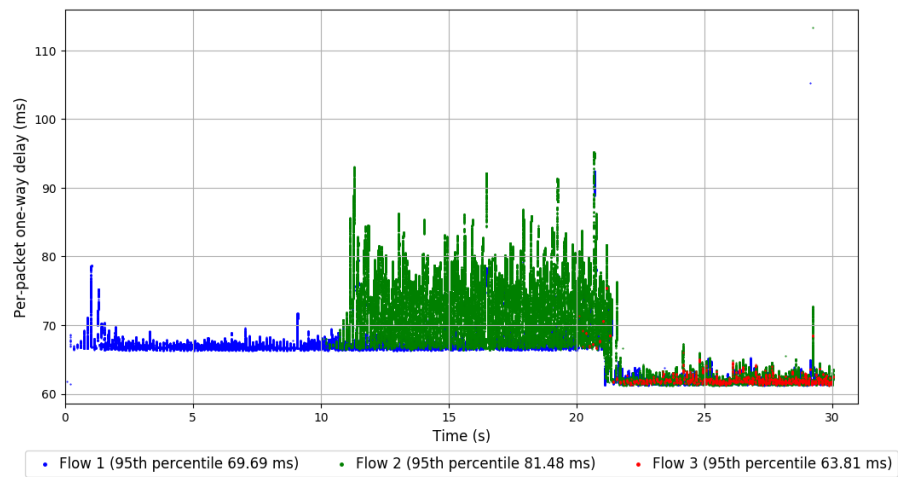
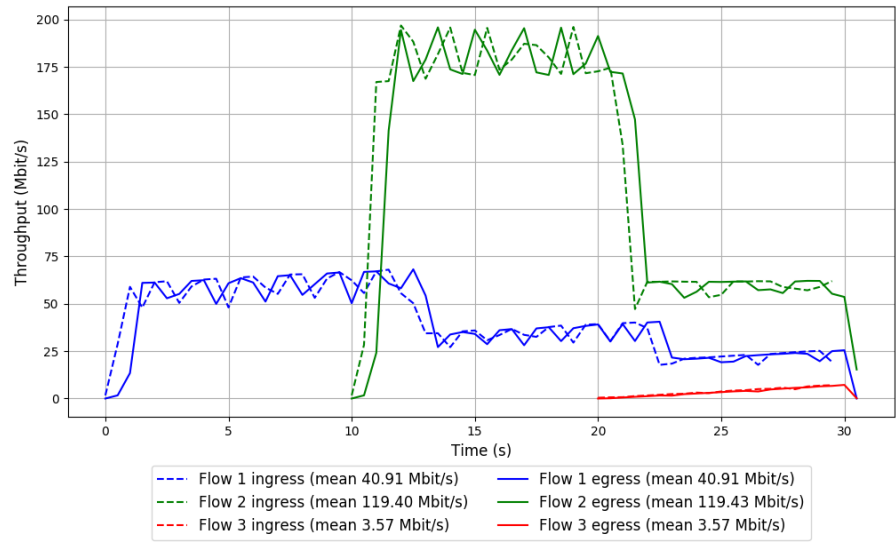


Run 10: Statistics of TCP Vegas

Start at: 2018-05-23 03:11:06
End at: 2018-05-23 03:11:36
Local clock offset: 0.816 ms
Remote clock offset: -0.328 ms

Below is generated by plot.py at 2018-05-23 05:14:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 121.58 Mbit/s
95th percentile per-packet one-way delay: 80.067 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 40.91 Mbit/s
95th percentile per-packet one-way delay: 69.694 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 119.43 Mbit/s
95th percentile per-packet one-way delay: 81.483 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.57 Mbit/s
95th percentile per-packet one-way delay: 63.809 ms
Loss rate: 0.27%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-05-22 23:43:28

End at: 2018-05-22 23:43:58

Local clock offset: -0.029 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-05-23 05:16:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 269.88 Mbit/s

95th percentile per-packet one-way delay: 201.885 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 150.01 Mbit/s

95th percentile per-packet one-way delay: 171.120 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 144.03 Mbit/s

95th percentile per-packet one-way delay: 215.587 ms

Loss rate: 1.16%

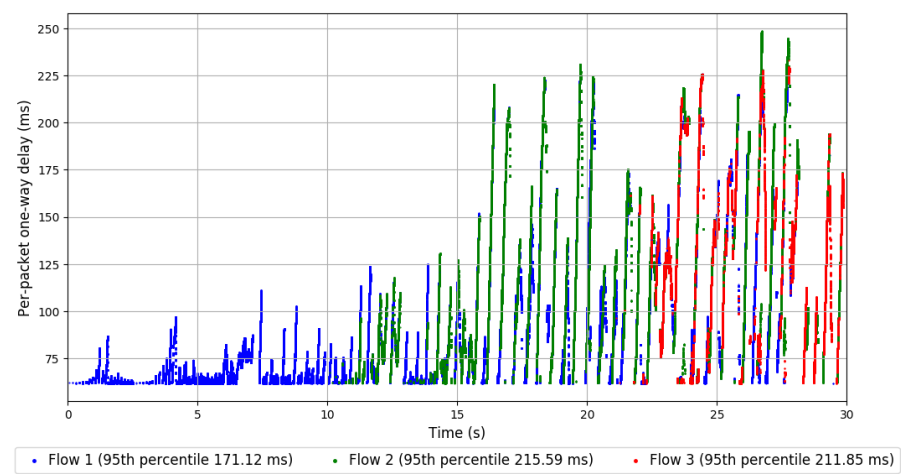
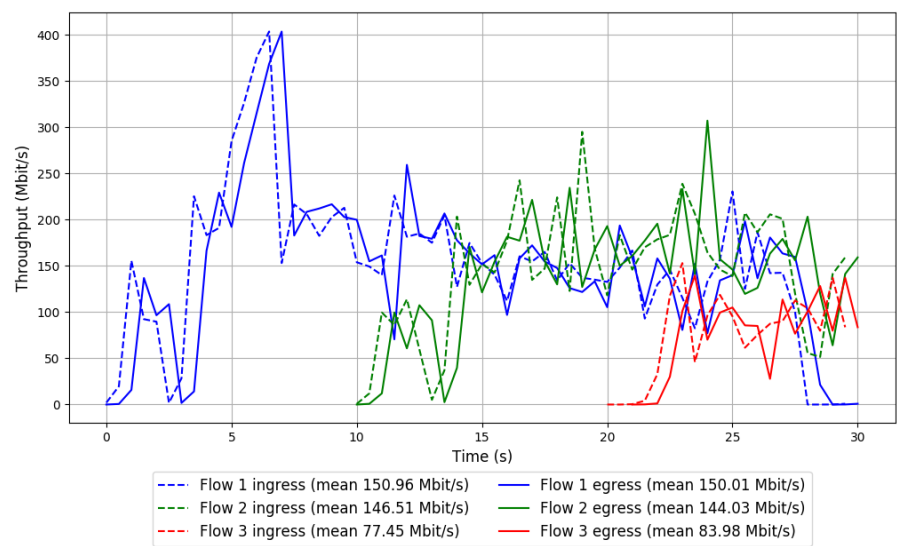
-- Flow 3:

Average throughput: 83.98 Mbit/s

95th percentile per-packet one-way delay: 211.854 ms

Loss rate: 2.10%

Run 1: Report of Verus — Data Link

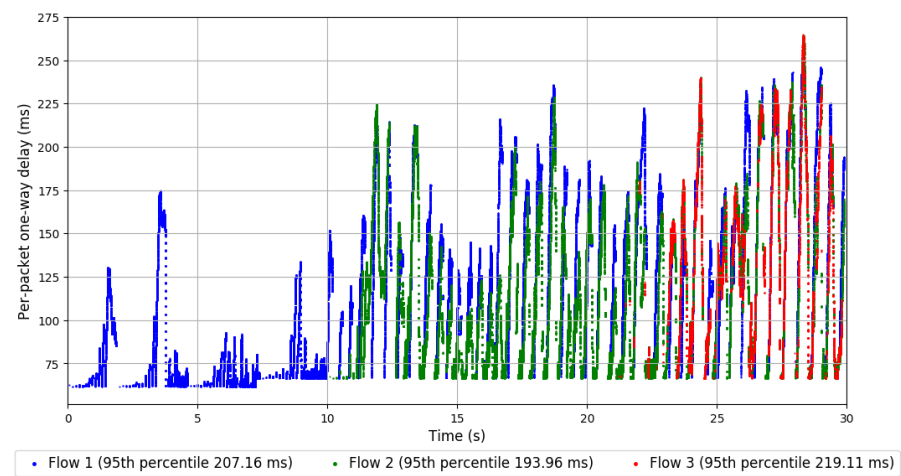
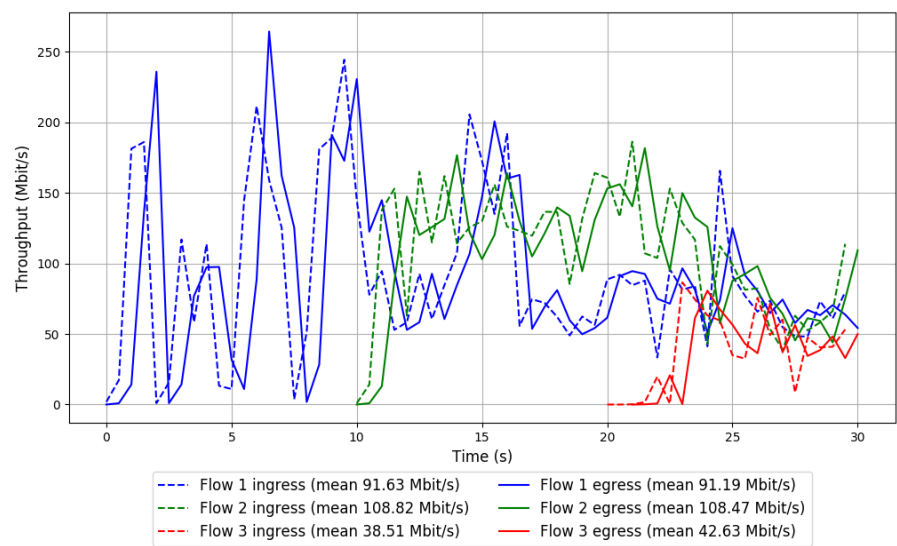


Run 2: Statistics of Verus

Start at: 2018-05-23 00:05:49
End at: 2018-05-23 00:06:19
Local clock offset: 0.11 ms
Remote clock offset: -0.007 ms

Below is generated by plot.py at 2018-05-23 05:16:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 175.58 Mbit/s
95th percentile per-packet one-way delay: 204.180 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 91.19 Mbit/s
95th percentile per-packet one-way delay: 207.158 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 108.47 Mbit/s
95th percentile per-packet one-way delay: 193.958 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 42.63 Mbit/s
95th percentile per-packet one-way delay: 219.107 ms
Loss rate: 1.74%

Run 2: Report of Verus — Data Link

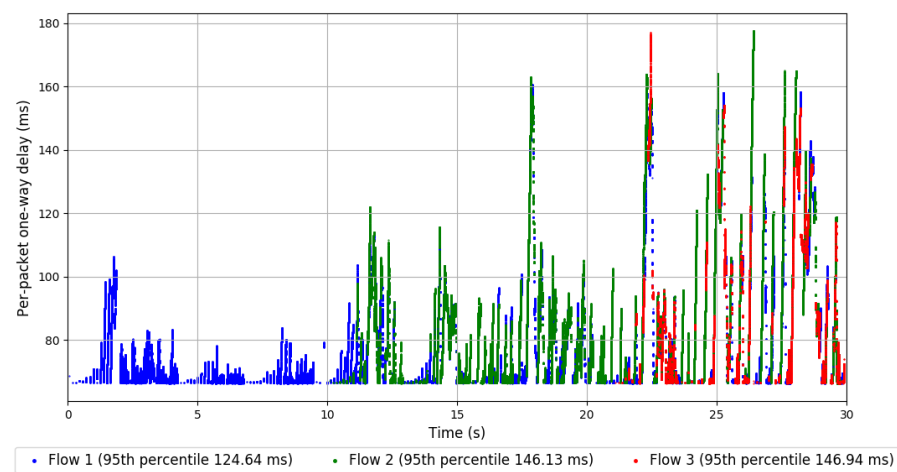
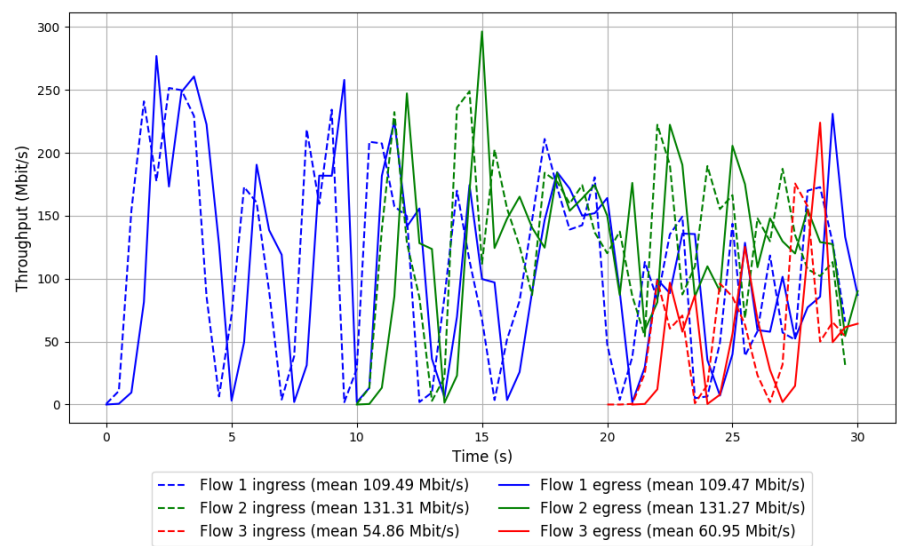


Run 3: Statistics of Verus

Start at: 2018-05-23 00:28:12
End at: 2018-05-23 00:28:42
Local clock offset: 0.25 ms
Remote clock offset: -0.225 ms

Below is generated by plot.py at 2018-05-23 05:16:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 213.84 Mbit/s
95th percentile per-packet one-way delay: 139.482 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 109.47 Mbit/s
95th percentile per-packet one-way delay: 124.641 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 131.27 Mbit/s
95th percentile per-packet one-way delay: 146.129 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 60.95 Mbit/s
95th percentile per-packet one-way delay: 146.941 ms
Loss rate: 0.17%

Run 3: Report of Verus — Data Link

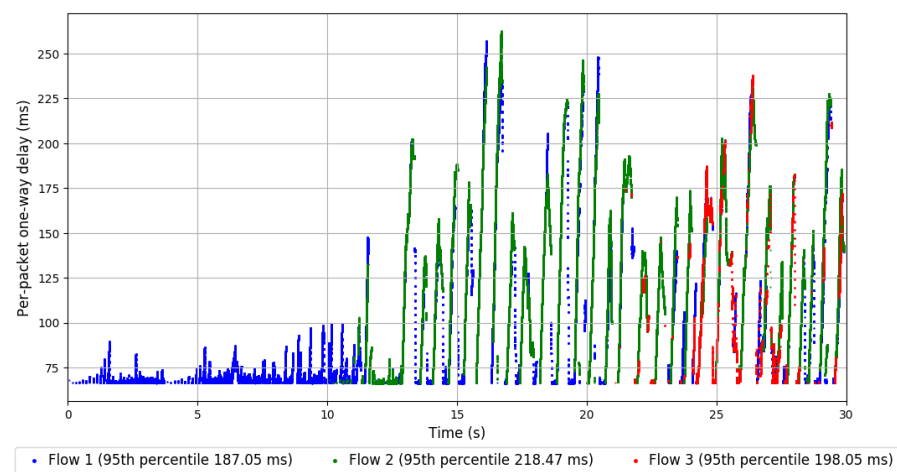
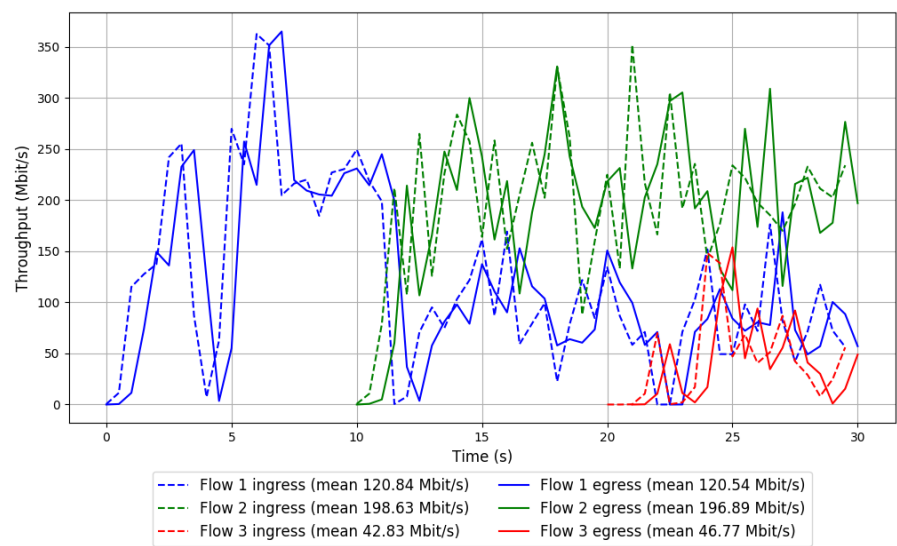


Run 4: Statistics of Verus

Start at: 2018-05-23 00:50:35
End at: 2018-05-23 00:51:05
Local clock offset: 0.336 ms
Remote clock offset: -0.242 ms

Below is generated by plot.py at 2018-05-23 05:17:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 265.02 Mbit/s
95th percentile per-packet one-way delay: 207.911 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 120.54 Mbit/s
95th percentile per-packet one-way delay: 187.047 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 196.89 Mbit/s
95th percentile per-packet one-way delay: 218.473 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 46.77 Mbit/s
95th percentile per-packet one-way delay: 198.046 ms
Loss rate: 2.80%

Run 4: Report of Verus — Data Link

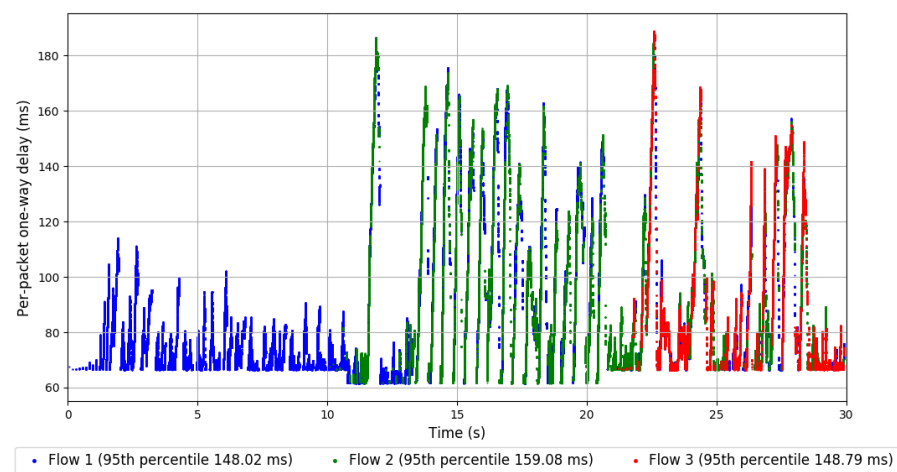
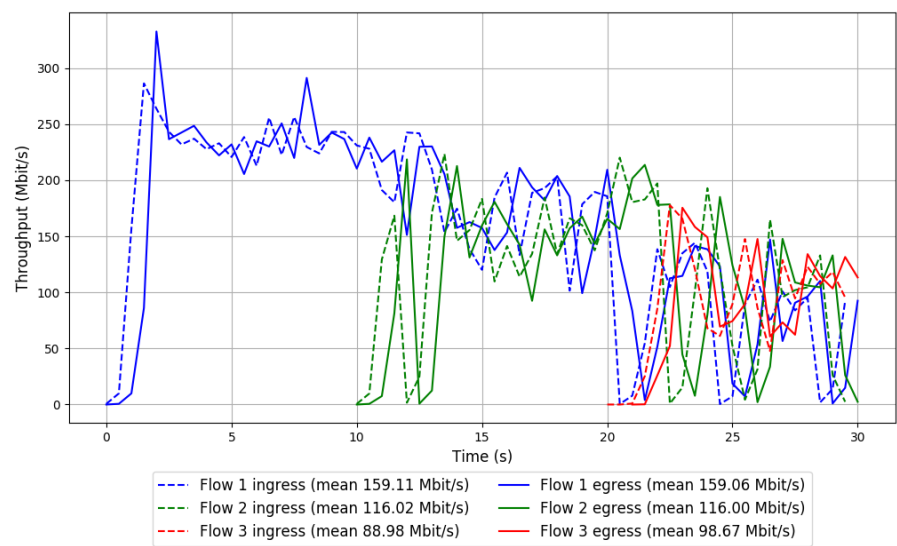


Run 5: Statistics of Verus

Start at: 2018-05-23 01:13:16
End at: 2018-05-23 01:13:46
Local clock offset: 0.015 ms
Remote clock offset: -0.259 ms

Below is generated by plot.py at 2018-05-23 05:17:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 265.13 Mbit/s
95th percentile per-packet one-way delay: 152.576 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 159.06 Mbit/s
95th percentile per-packet one-way delay: 148.023 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 116.00 Mbit/s
95th percentile per-packet one-way delay: 159.079 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 98.67 Mbit/s
95th percentile per-packet one-way delay: 148.786 ms
Loss rate: 0.47%

Run 5: Report of Verus — Data Link

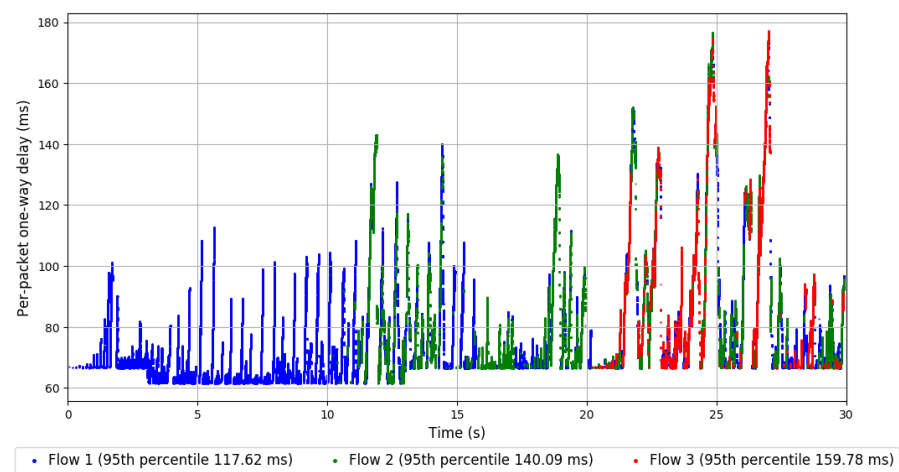
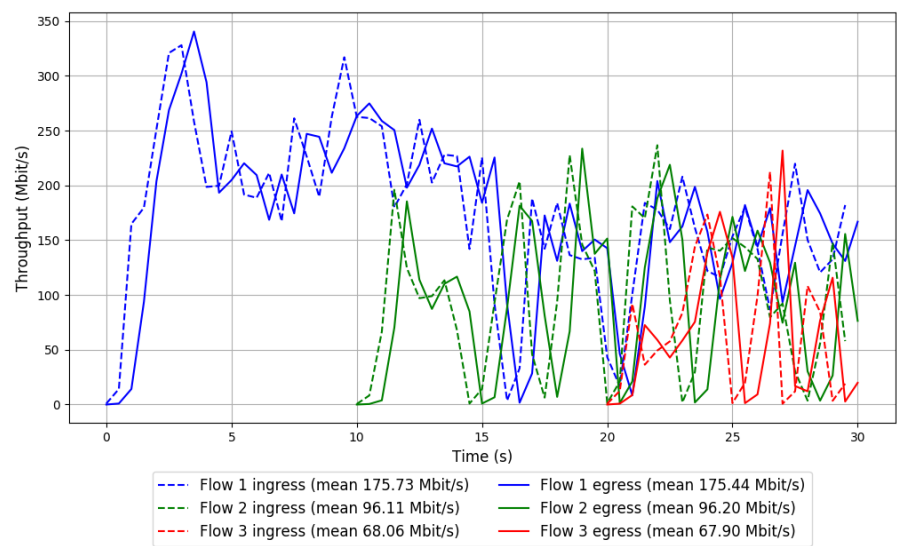


Run 6: Statistics of Verus

Start at: 2018-05-23 01:35:44
End at: 2018-05-23 01:36:14
Local clock offset: 0.163 ms
Remote clock offset: -0.037 ms

Below is generated by plot.py at 2018-05-23 05:17:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 261.51 Mbit/s
95th percentile per-packet one-way delay: 134.417 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 175.44 Mbit/s
95th percentile per-packet one-way delay: 117.625 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 96.20 Mbit/s
95th percentile per-packet one-way delay: 140.090 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 67.90 Mbit/s
95th percentile per-packet one-way delay: 159.784 ms
Loss rate: 0.00%

Run 6: Report of Verus — Data Link

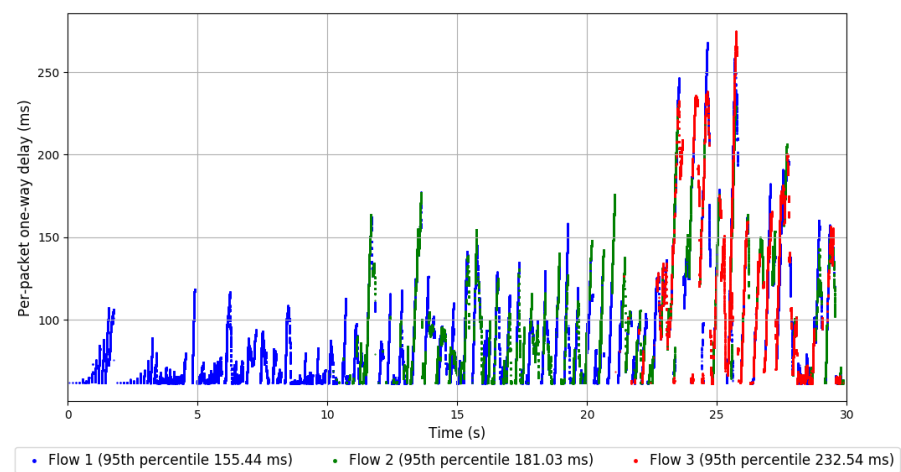
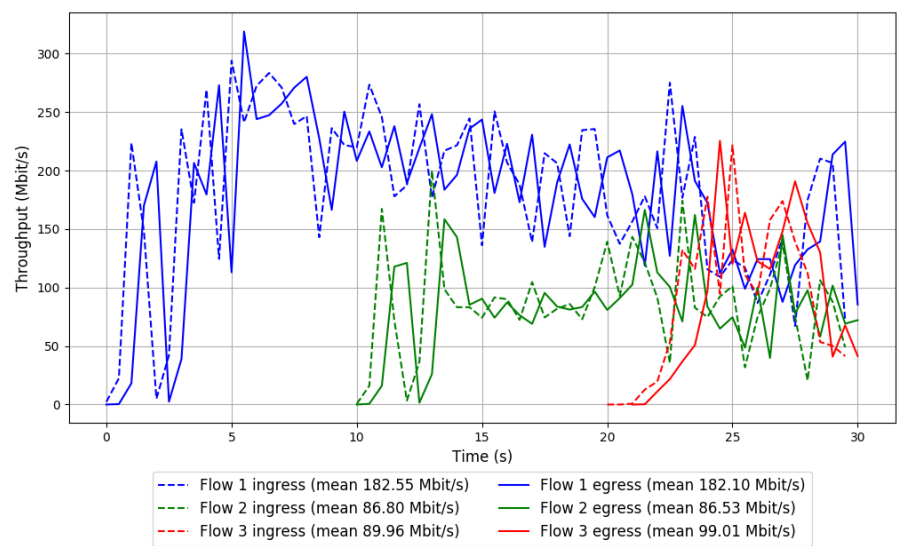


Run 7: Statistics of Verus

Start at: 2018-05-23 01:57:44
End at: 2018-05-23 01:58:14
Local clock offset: 0.252 ms
Remote clock offset: -0.147 ms

Below is generated by plot.py at 2018-05-23 05:18:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 268.49 Mbit/s
95th percentile per-packet one-way delay: 184.370 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 182.10 Mbit/s
95th percentile per-packet one-way delay: 155.439 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 86.53 Mbit/s
95th percentile per-packet one-way delay: 181.025 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 99.01 Mbit/s
95th percentile per-packet one-way delay: 232.542 ms
Loss rate: 1.24%

Run 7: Report of Verus — Data Link

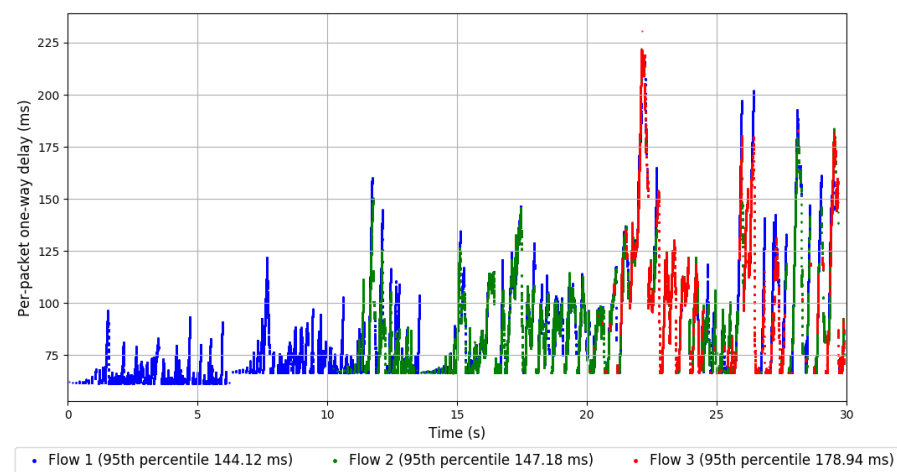
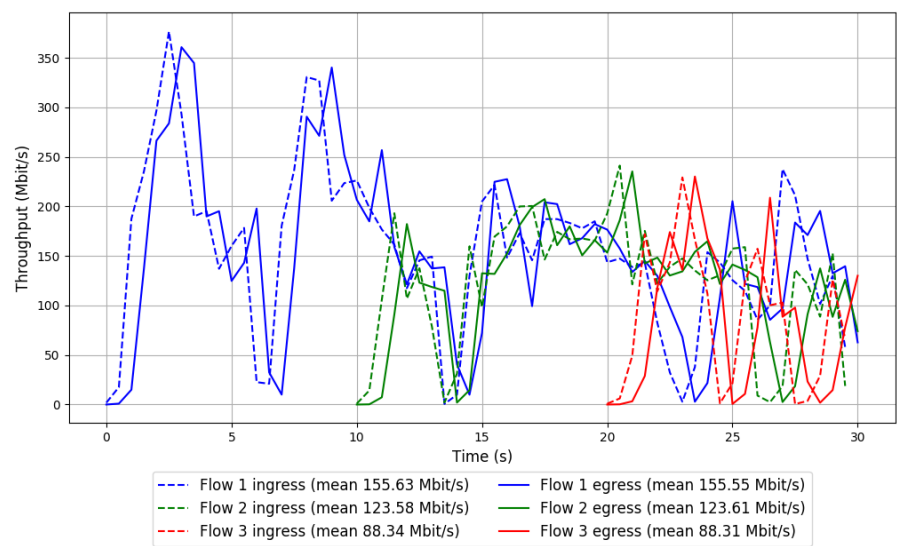


Run 8: Statistics of Verus

Start at: 2018-05-23 02:19:50
End at: 2018-05-23 02:20:20
Local clock offset: -0.055 ms
Remote clock offset: -0.334 ms

Below is generated by plot.py at 2018-05-23 05:20:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 266.50 Mbit/s
95th percentile per-packet one-way delay: 152.174 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 155.55 Mbit/s
95th percentile per-packet one-way delay: 144.115 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 123.61 Mbit/s
95th percentile per-packet one-way delay: 147.175 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 88.31 Mbit/s
95th percentile per-packet one-way delay: 178.935 ms
Loss rate: 0.07%

Run 8: Report of Verus — Data Link

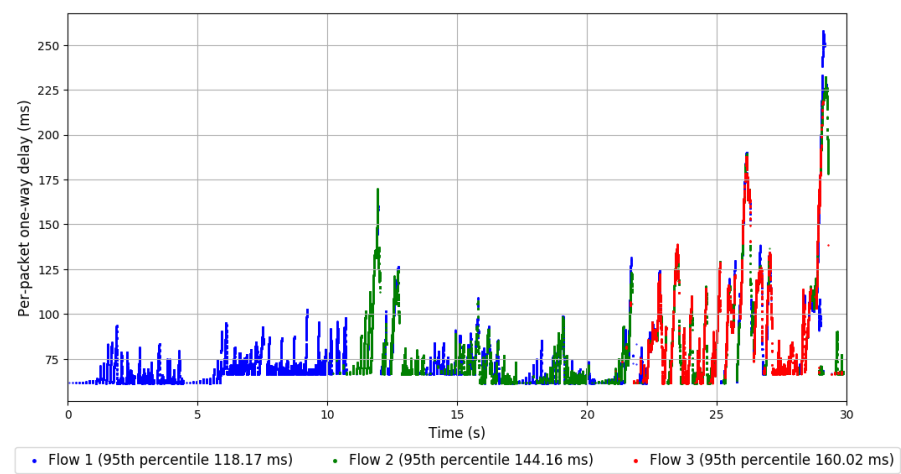
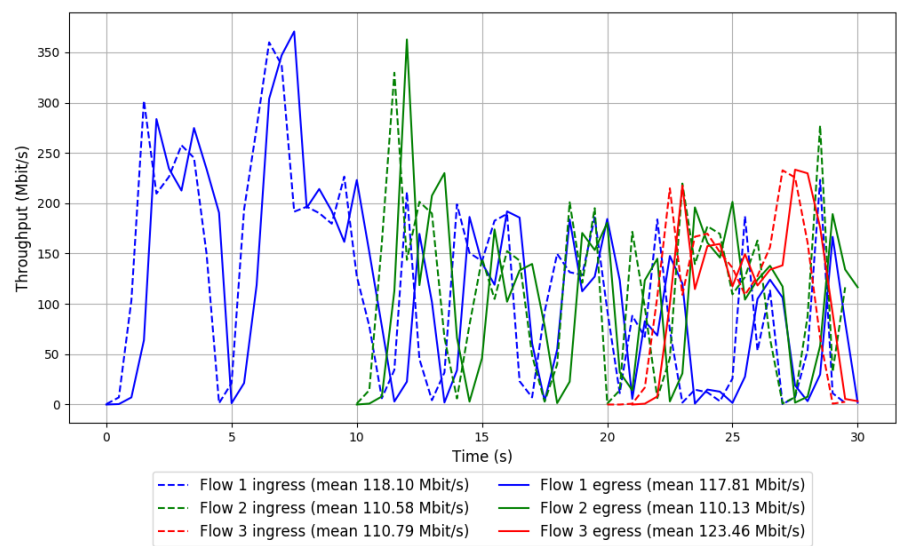


Run 9: Statistics of Verus

Start at: 2018-05-23 02:42:01
End at: 2018-05-23 02:42:31
Local clock offset: 0.326 ms
Remote clock offset: -0.278 ms

Below is generated by plot.py at 2018-05-23 05:20:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 226.83 Mbit/s
95th percentile per-packet one-way delay: 134.406 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 117.81 Mbit/s
95th percentile per-packet one-way delay: 118.173 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 110.13 Mbit/s
95th percentile per-packet one-way delay: 144.155 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 123.46 Mbit/s
95th percentile per-packet one-way delay: 160.020 ms
Loss rate: 0.02%

Run 9: Report of Verus — Data Link

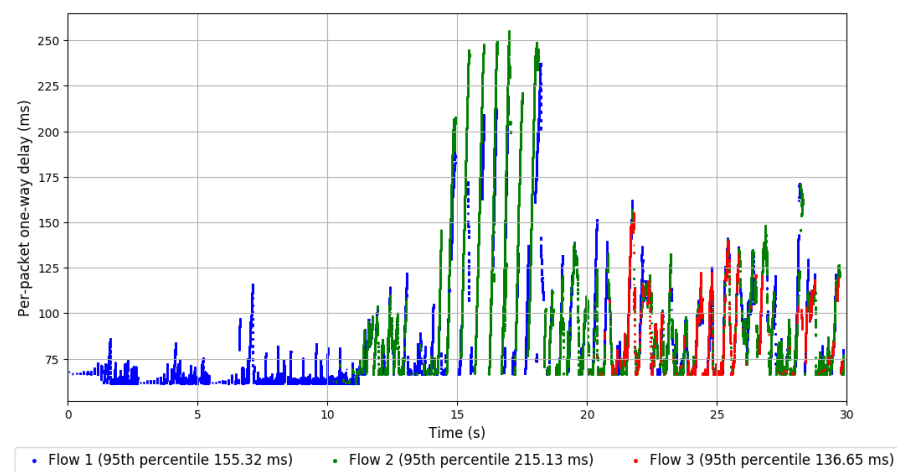
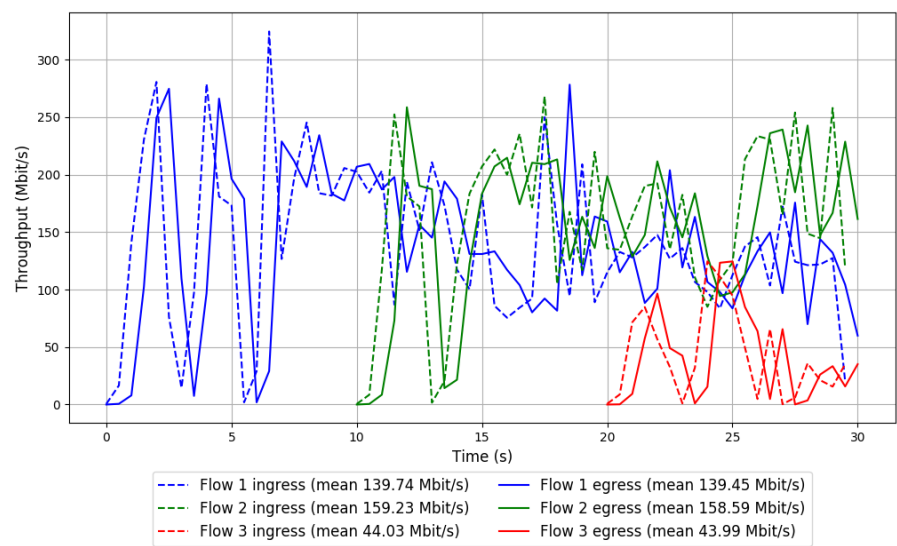


Run 10: Statistics of Verus

Start at: 2018-05-23 03:04:15
End at: 2018-05-23 03:04:45
Local clock offset: 0.656 ms
Remote clock offset: -0.269 ms

Below is generated by plot.py at 2018-05-23 05:21:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 259.08 Mbit/s
95th percentile per-packet one-way delay: 189.353 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 139.45 Mbit/s
95th percentile per-packet one-way delay: 155.321 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 158.59 Mbit/s
95th percentile per-packet one-way delay: 215.130 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 43.99 Mbit/s
95th percentile per-packet one-way delay: 136.647 ms
Loss rate: 0.01%

Run 10: Report of Verus — Data Link

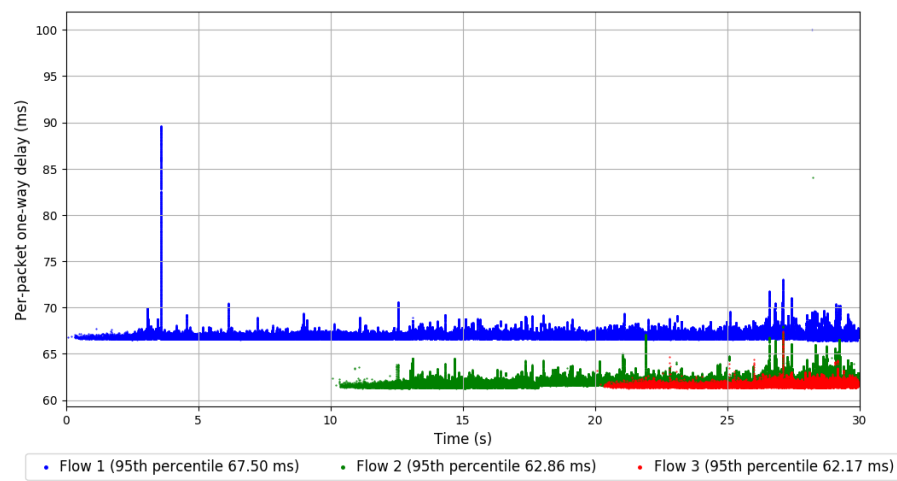
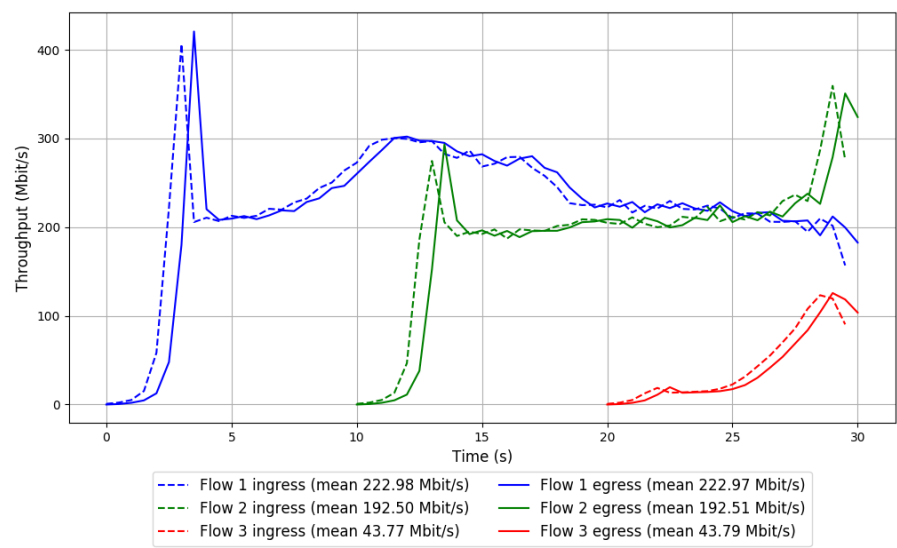


Run 1: Statistics of PCC-Vivace

Start at: 2018-05-22 23:55:19
End at: 2018-05-22 23:55:49
Local clock offset: 0.005 ms
Remote clock offset: -0.031 ms

Below is generated by plot.py at 2018-05-23 05:25:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 365.43 Mbit/s
95th percentile per-packet one-way delay: 67.319 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 222.97 Mbit/s
95th percentile per-packet one-way delay: 67.498 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 192.51 Mbit/s
95th percentile per-packet one-way delay: 62.862 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 43.79 Mbit/s
95th percentile per-packet one-way delay: 62.168 ms
Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link

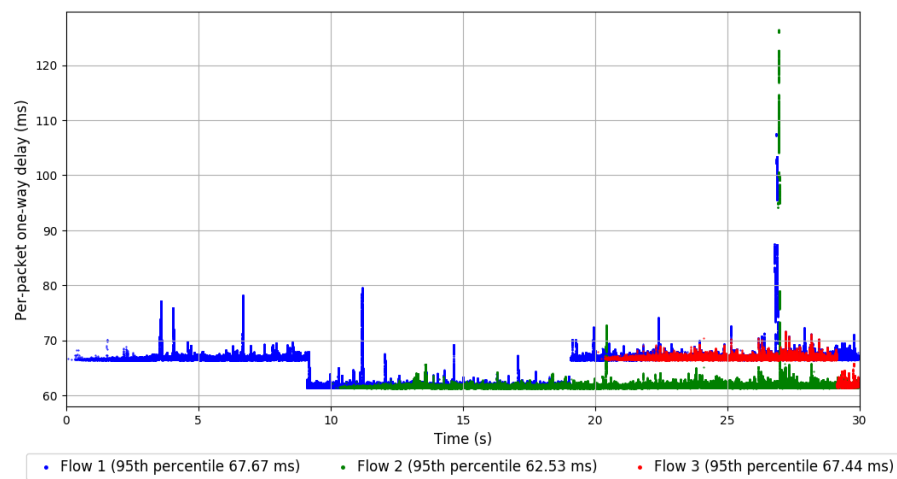
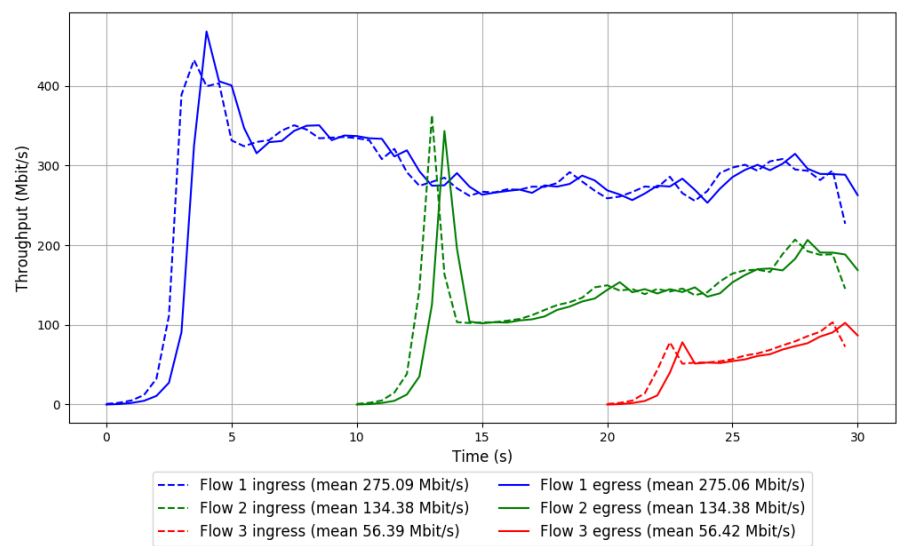


Run 2: Statistics of PCC-Vivace

Start at: 2018-05-23 00:17:37
End at: 2018-05-23 00:18:07
Local clock offset: 0.092 ms
Remote clock offset: -0.275 ms

Below is generated by plot.py at 2018-05-23 05:26:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 383.07 Mbit/s
95th percentile per-packet one-way delay: 67.452 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 275.06 Mbit/s
95th percentile per-packet one-way delay: 67.673 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 134.38 Mbit/s
95th percentile per-packet one-way delay: 62.533 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 56.42 Mbit/s
95th percentile per-packet one-way delay: 67.441 ms
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link

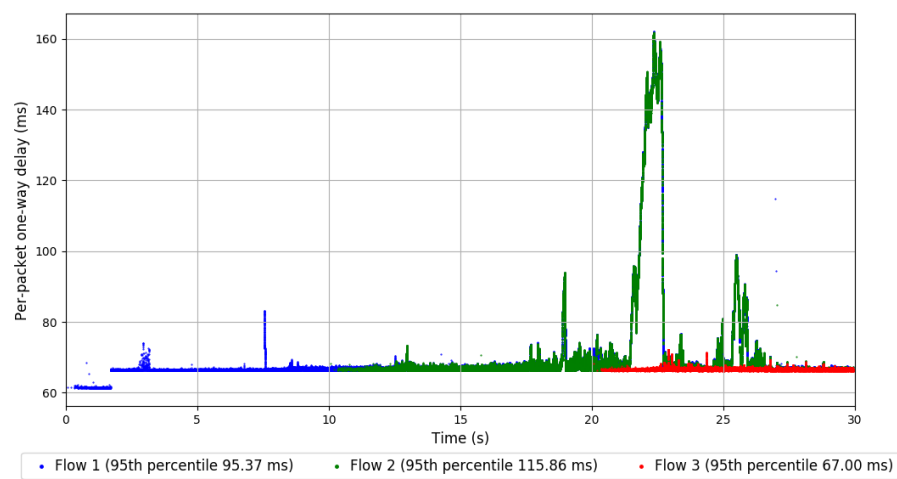
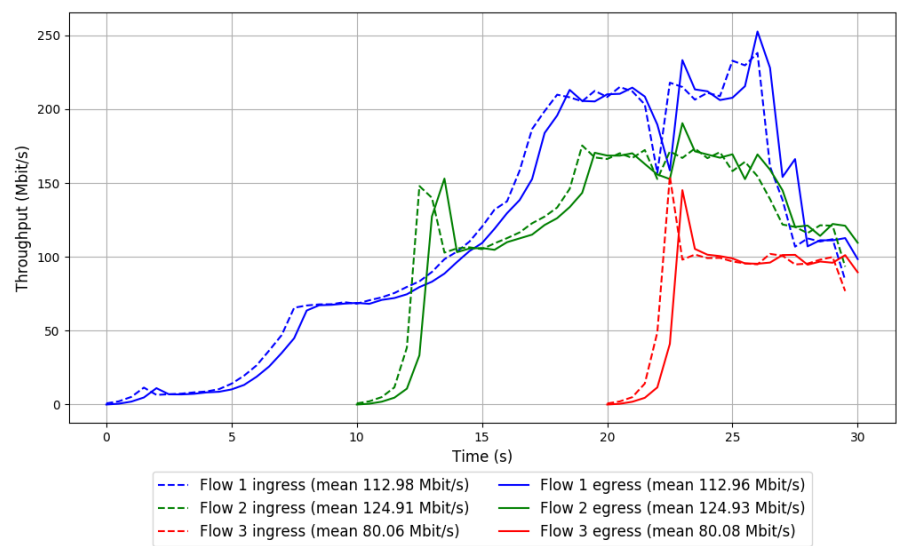


Run 3: Statistics of PCC-Vivace

Start at: 2018-05-23 00:40:15
End at: 2018-05-23 00:40:45
Local clock offset: 0.247 ms
Remote clock offset: -0.372 ms

Below is generated by plot.py at 2018-05-23 05:26:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 222.44 Mbit/s
95th percentile per-packet one-way delay: 94.479 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 112.96 Mbit/s
95th percentile per-packet one-way delay: 95.370 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 124.93 Mbit/s
95th percentile per-packet one-way delay: 115.864 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 80.08 Mbit/s
95th percentile per-packet one-way delay: 66.998 ms
Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link

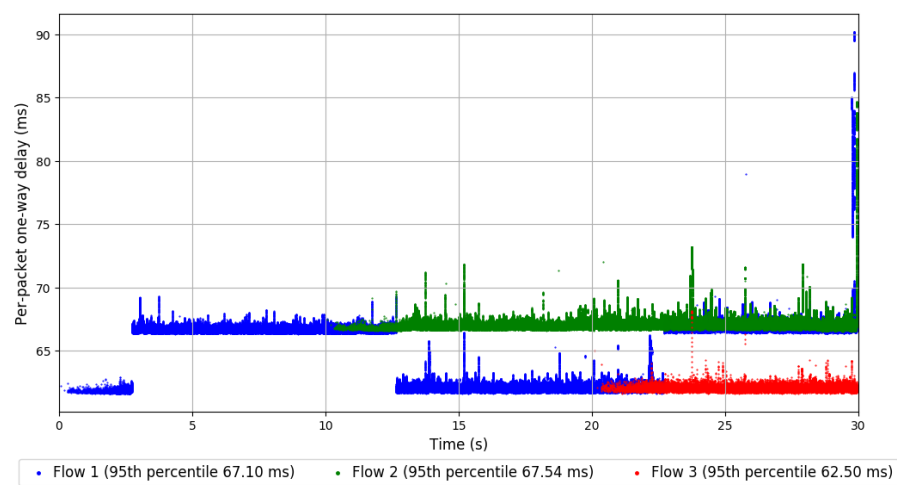
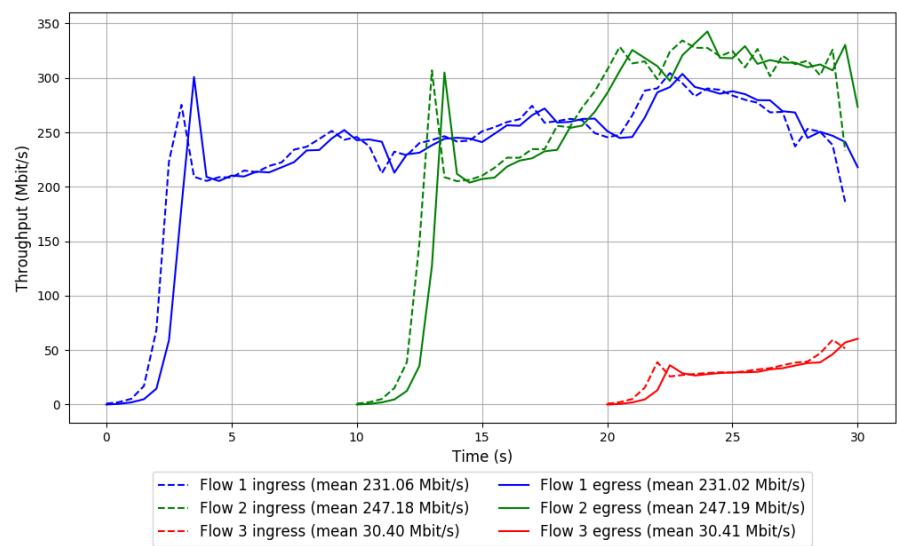


Run 4: Statistics of PCC-Vivace

Start at: 2018-05-23 01:02:34
End at: 2018-05-23 01:03:04
Local clock offset: 0.068 ms
Remote clock offset: -0.028 ms

Below is generated by plot.py at 2018-05-23 05:27:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 405.47 Mbit/s
95th percentile per-packet one-way delay: 67.367 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 231.02 Mbit/s
95th percentile per-packet one-way delay: 67.096 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 247.19 Mbit/s
95th percentile per-packet one-way delay: 67.543 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.41 Mbit/s
95th percentile per-packet one-way delay: 62.498 ms
Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-05-23 01:25:07

End at: 2018-05-23 01:25:37

Local clock offset: -0.015 ms

Remote clock offset: 0.041 ms

Below is generated by plot.py at 2018-05-23 05:29:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 484.01 Mbit/s

95th percentile per-packet one-way delay: 68.999 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 292.02 Mbit/s

95th percentile per-packet one-way delay: 68.070 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 220.32 Mbit/s

95th percentile per-packet one-way delay: 68.780 ms

Loss rate: 0.03%

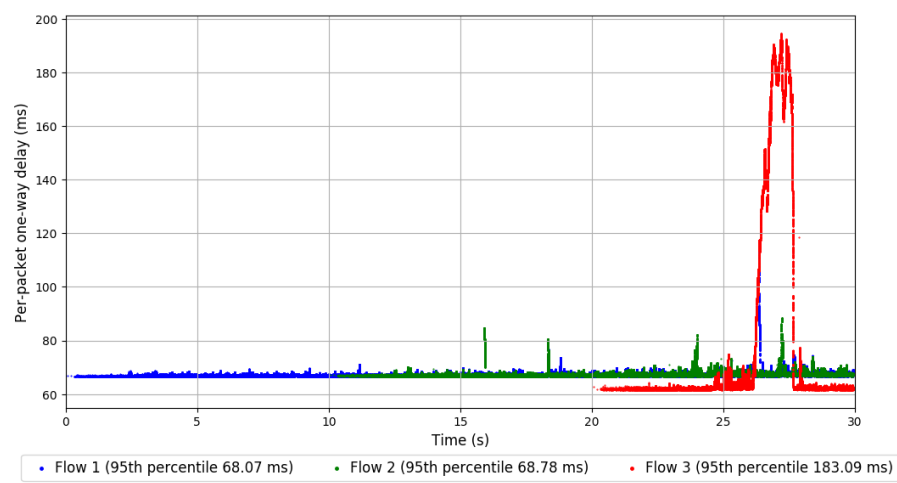
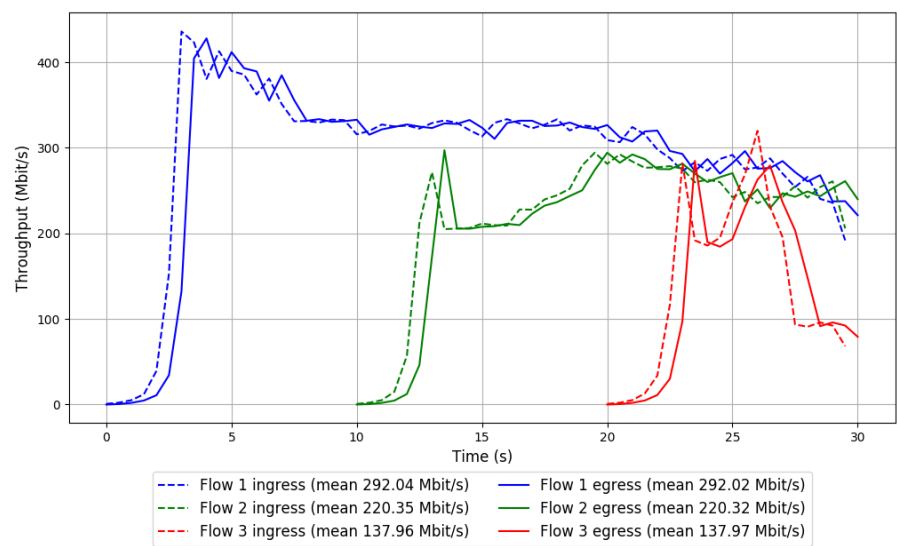
-- Flow 3:

Average throughput: 137.97 Mbit/s

95th percentile per-packet one-way delay: 183.093 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-05-23 01:47:39

End at: 2018-05-23 01:48:09

Local clock offset: 0.282 ms

Remote clock offset: 0.097 ms

Below is generated by plot.py at 2018-05-23 05:29:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 342.11 Mbit/s

95th percentile per-packet one-way delay: 67.505 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 261.04 Mbit/s

95th percentile per-packet one-way delay: 67.636 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 107.89 Mbit/s

95th percentile per-packet one-way delay: 67.184 ms

Loss rate: 0.00%

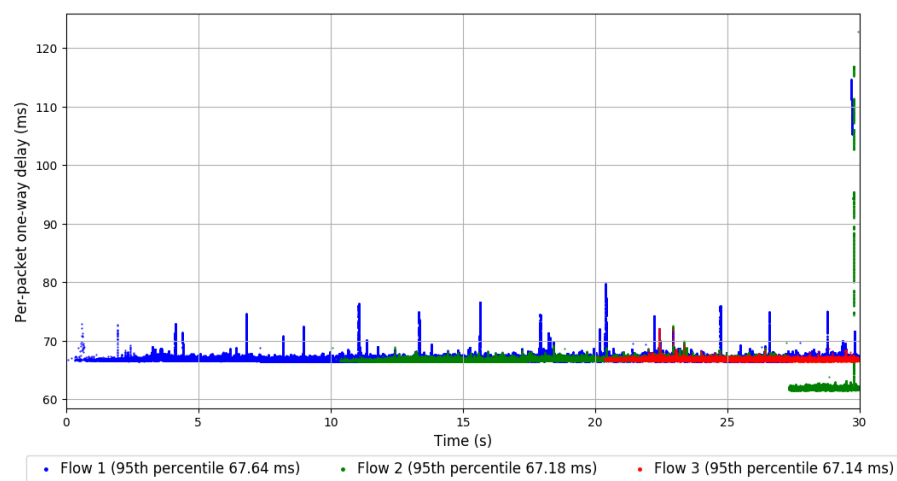
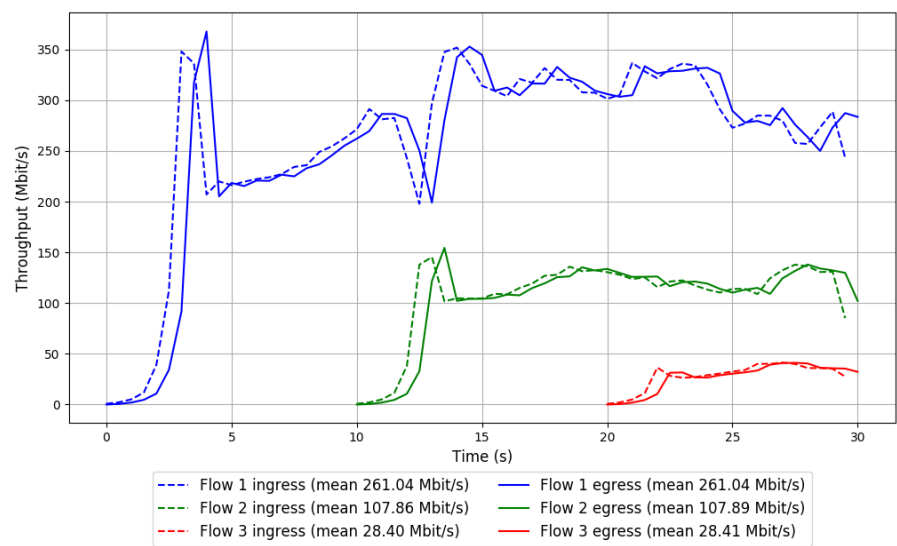
-- Flow 3:

Average throughput: 28.41 Mbit/s

95th percentile per-packet one-way delay: 67.140 ms

Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-05-23 02:09:26

End at: 2018-05-23 02:09:56

Local clock offset: 0.128 ms

Remote clock offset: 0.211 ms

Below is generated by plot.py at 2018-05-23 05:29:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 438.51 Mbit/s

95th percentile per-packet one-way delay: 68.809 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 247.03 Mbit/s

95th percentile per-packet one-way delay: 68.394 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 215.19 Mbit/s

95th percentile per-packet one-way delay: 68.962 ms

Loss rate: 0.00%

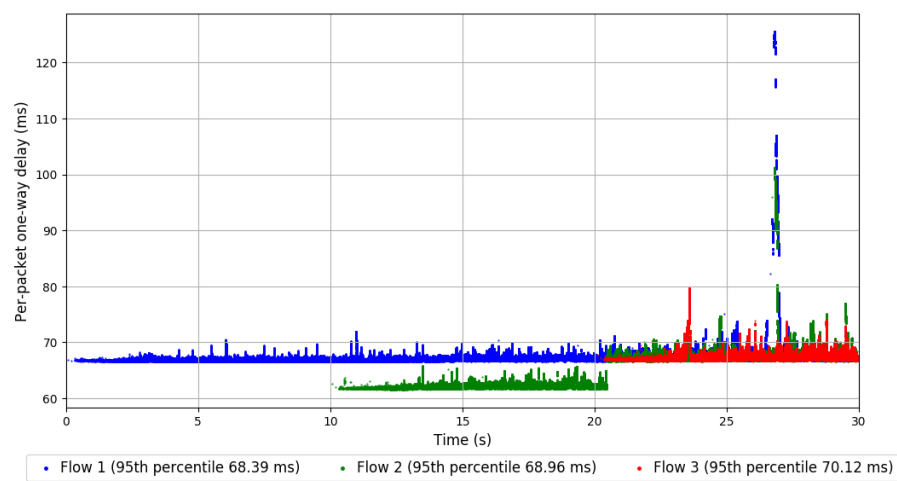
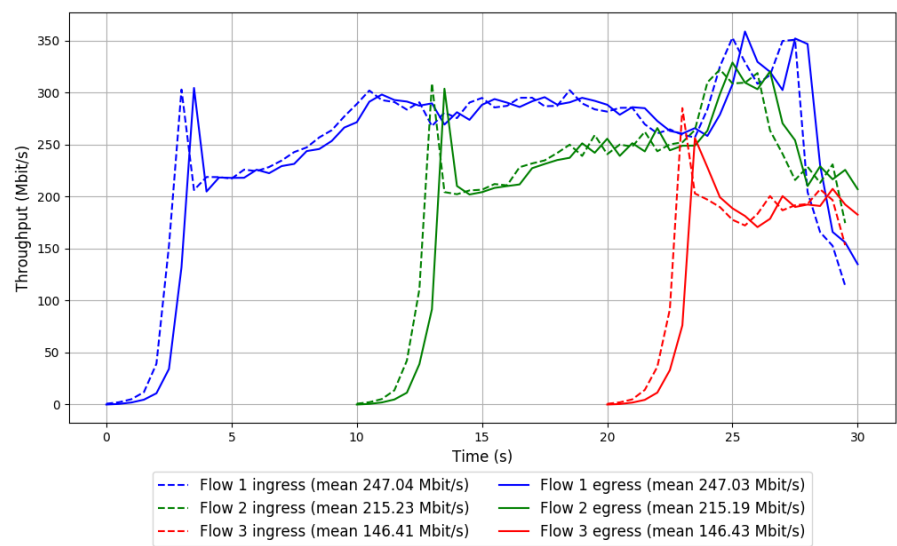
-- Flow 3:

Average throughput: 146.43 Mbit/s

95th percentile per-packet one-way delay: 70.118 ms

Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-05-23 02:31:40

End at: 2018-05-23 02:32:10

Local clock offset: -0.061 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-05-23 05:29:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 371.91 Mbit/s

95th percentile per-packet one-way delay: 69.208 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 270.71 Mbit/s

95th percentile per-packet one-way delay: 69.596 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 110.31 Mbit/s

95th percentile per-packet one-way delay: 68.662 ms

Loss rate: 0.09%

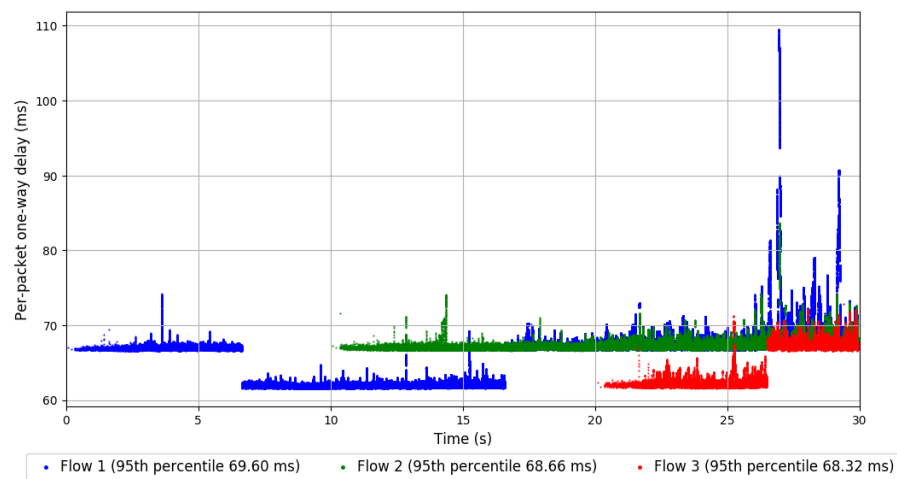
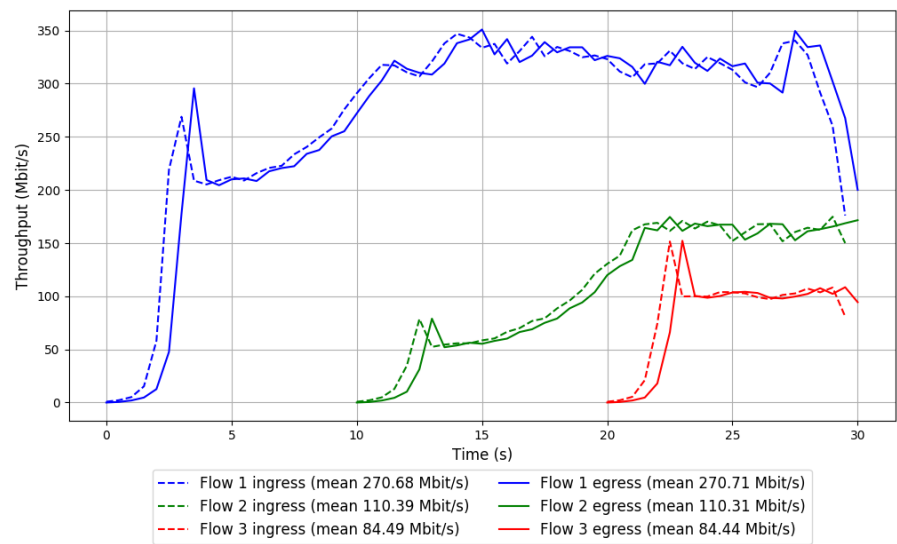
-- Flow 3:

Average throughput: 84.44 Mbit/s

95th percentile per-packet one-way delay: 68.319 ms

Loss rate: 0.06%

Run 8: Report of PCC-Vivace — Data Link

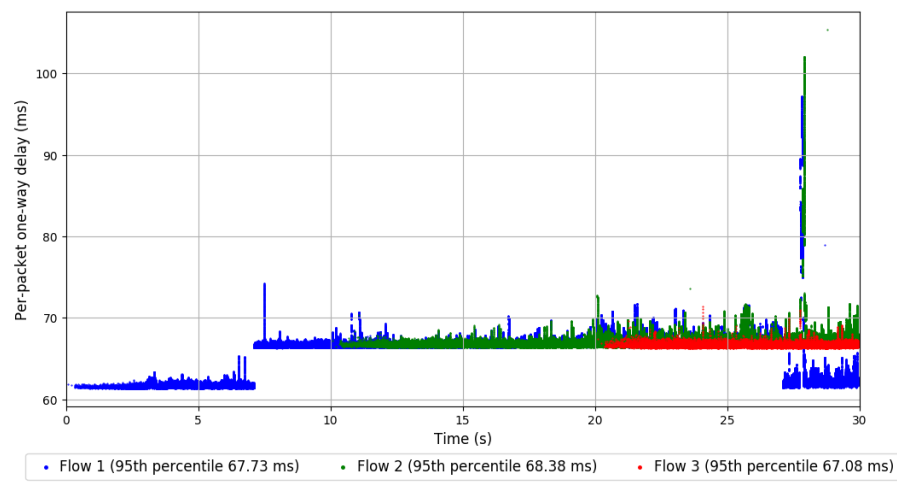
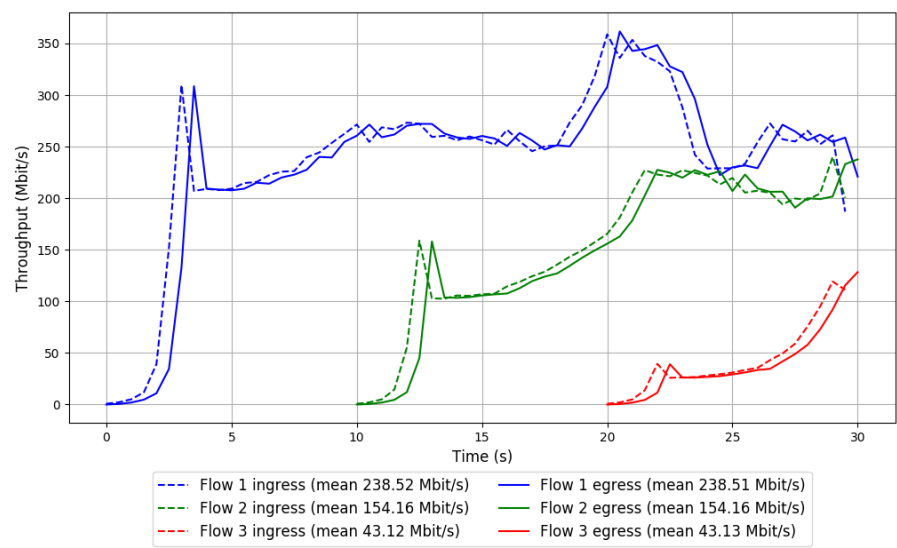


Run 9: Statistics of PCC-Vivace

Start at: 2018-05-23 02:53:50
End at: 2018-05-23 02:54:20
Local clock offset: 0.508 ms
Remote clock offset: -0.365 ms

Below is generated by plot.py at 2018-05-23 05:29:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 355.16 Mbit/s
95th percentile per-packet one-way delay: 67.936 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 238.51 Mbit/s
95th percentile per-packet one-way delay: 67.728 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 154.16 Mbit/s
95th percentile per-packet one-way delay: 68.380 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 43.13 Mbit/s
95th percentile per-packet one-way delay: 67.075 ms
Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link

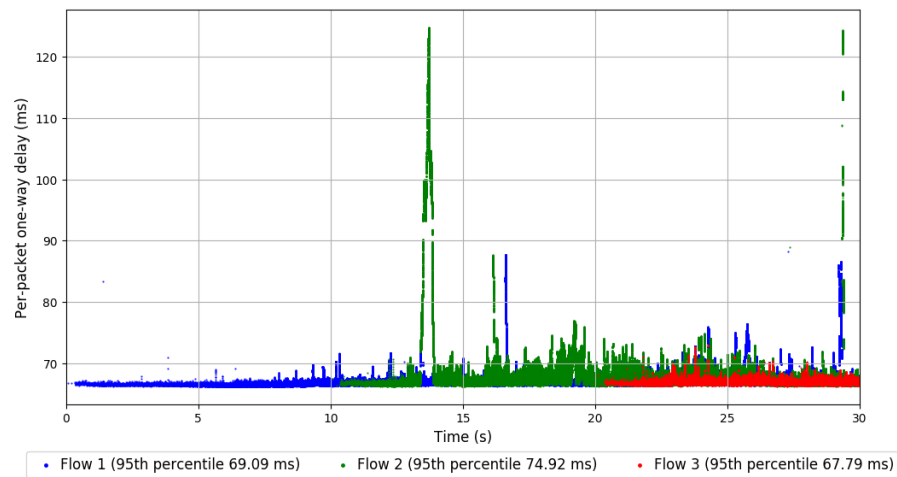
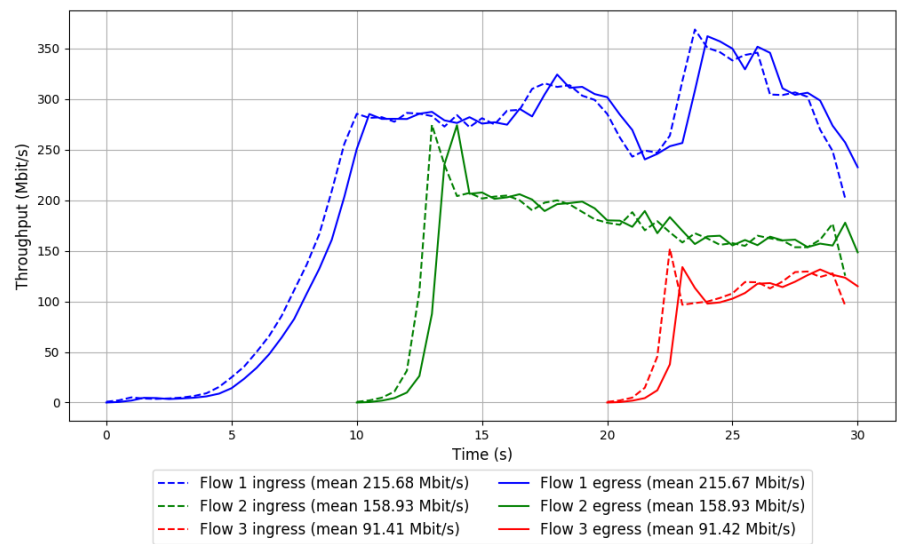


Run 10: Statistics of PCC-Vivace

Start at: 2018-05-23 03:16:06
End at: 2018-05-23 03:16:36
Local clock offset: 0.692 ms
Remote clock offset: -0.505 ms

Below is generated by plot.py at 2018-05-23 05:30:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 351.48 Mbit/s
95th percentile per-packet one-way delay: 70.366 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 215.67 Mbit/s
95th percentile per-packet one-way delay: 69.088 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 158.93 Mbit/s
95th percentile per-packet one-way delay: 74.922 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 91.42 Mbit/s
95th percentile per-packet one-way delay: 67.791 ms
Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link

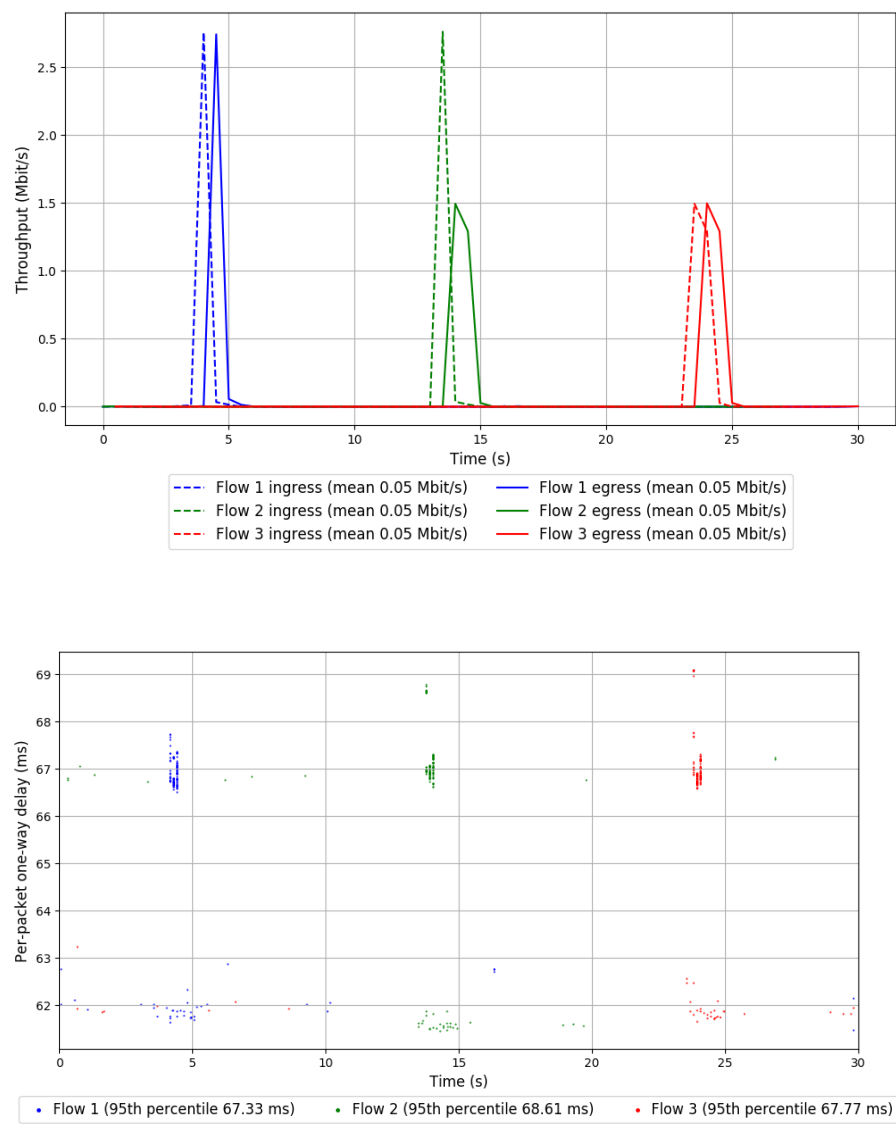


```
Run 1: Statistics of WebRTC media

Start at: 2018-05-22 23:54:10
End at: 2018-05-22 23:54:40
Local clock offset: 0.0 ms
Remote clock offset: 0.046 ms

# Below is generated by plot.py at 2018-05-23 05:30:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 67.609 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 67.330 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 68.612 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 67.766 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

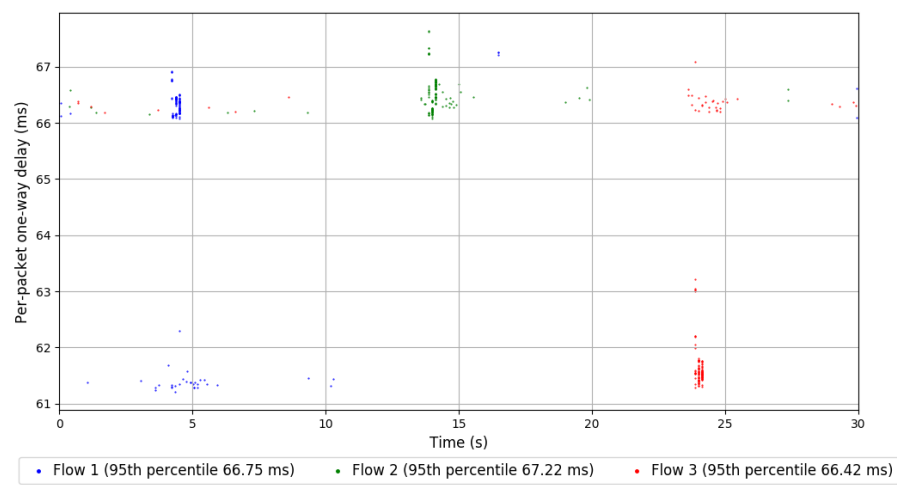
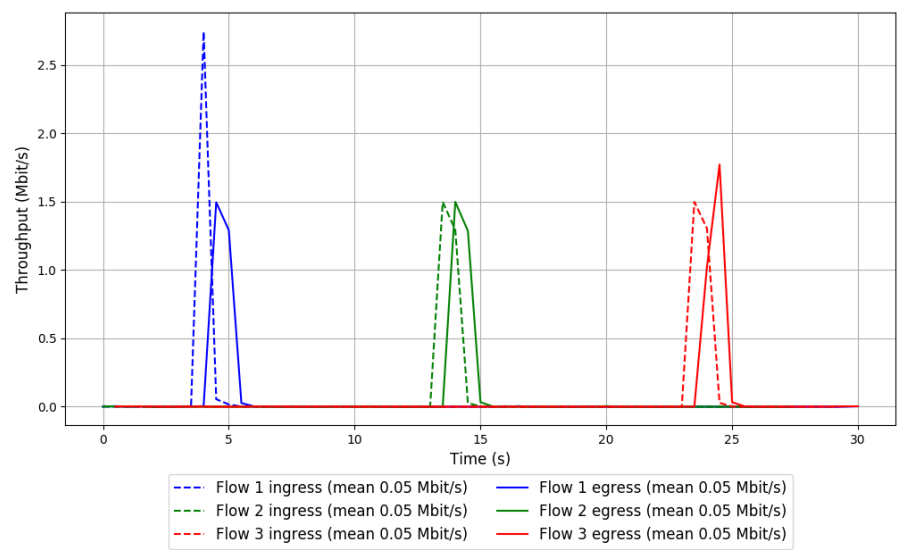


Run 2: Statistics of WebRTC media

Start at: 2018-05-23 00:16:29
End at: 2018-05-23 00:16:59
Local clock offset: 0.057 ms
Remote clock offset: -0.474 ms

Below is generated by plot.py at 2018-05-23 05:30:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 66.756 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 66.753 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 67.222 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 66.421 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

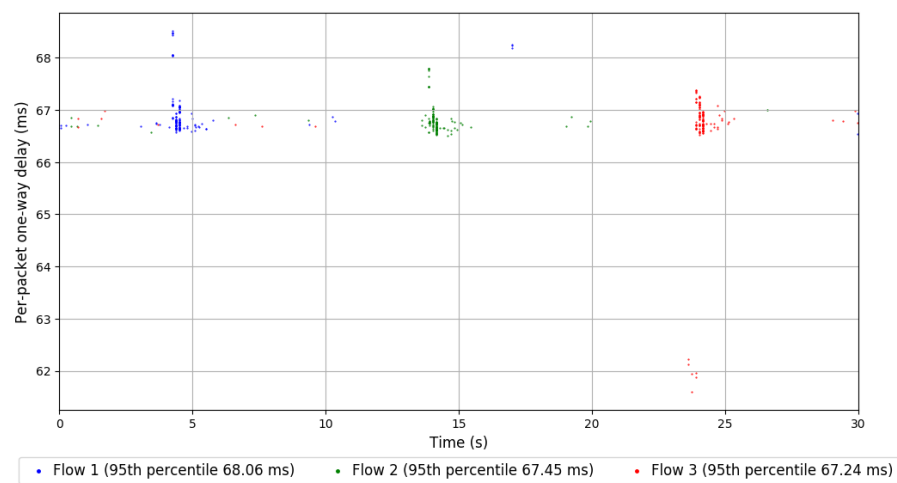
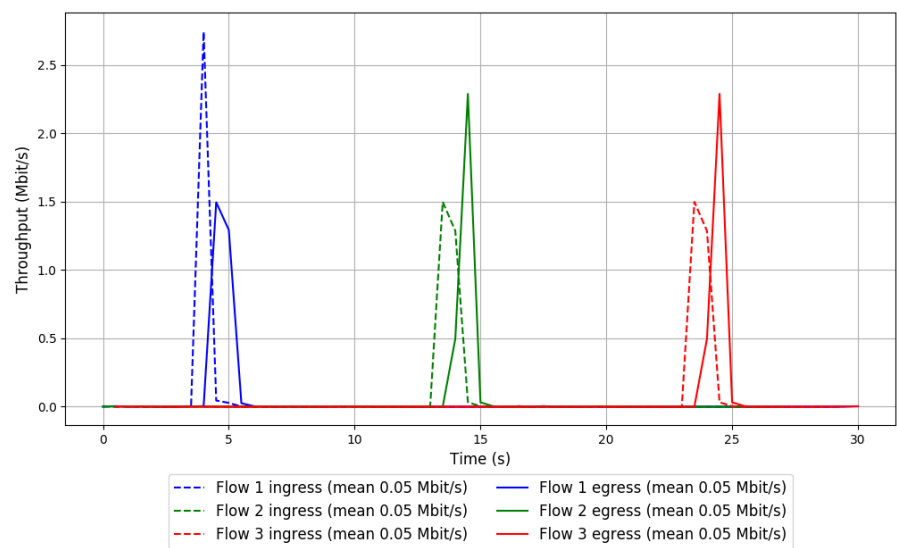


Run 3: Statistics of WebRTC media

Start at: 2018-05-23 00:39:06
End at: 2018-05-23 00:39:36
Local clock offset: 0.27 ms
Remote clock offset: -0.143 ms

Below is generated by plot.py at 2018-05-23 05:30:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 67.380 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 68.056 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 67.446 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 67.244 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

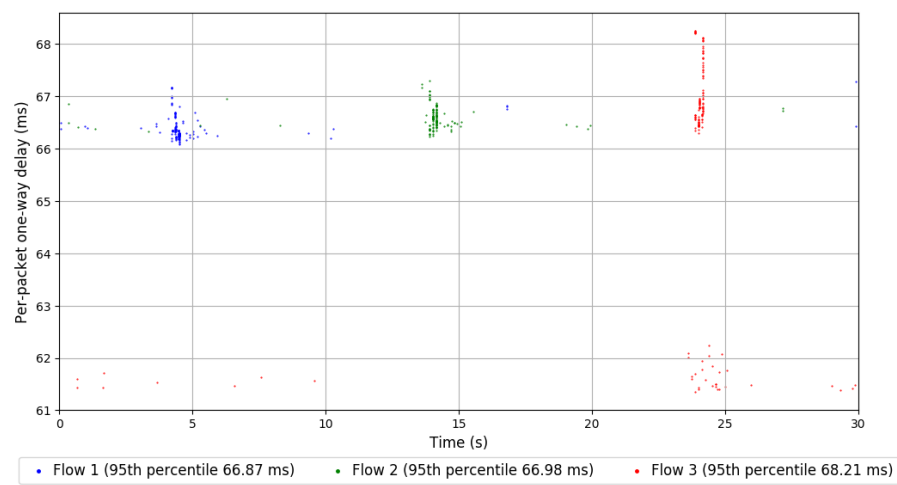
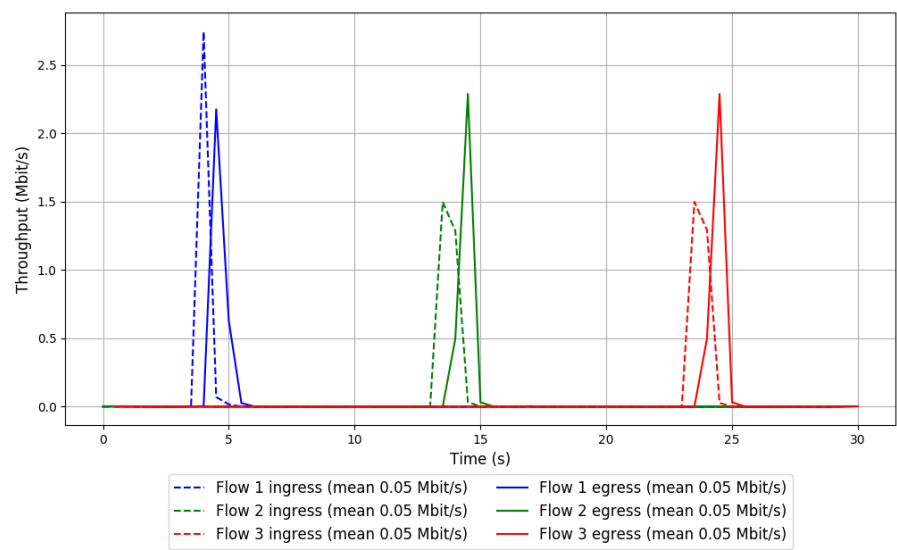


Run 4: Statistics of WebRTC media

Start at: 2018-05-23 01:01:25
End at: 2018-05-23 01:01:55
Local clock offset: 0.077 ms
Remote clock offset: -0.381 ms

Below is generated by plot.py at 2018-05-23 05:30:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 67.728 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 66.868 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 66.979 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 68.212 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

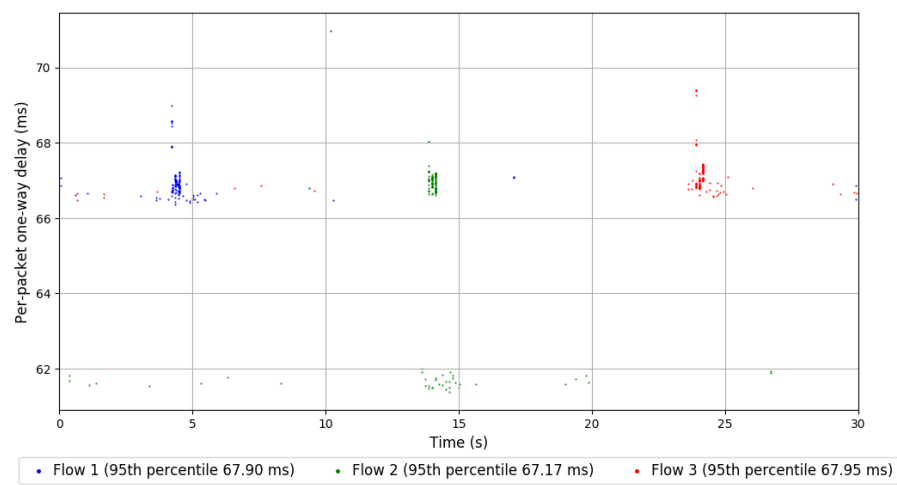
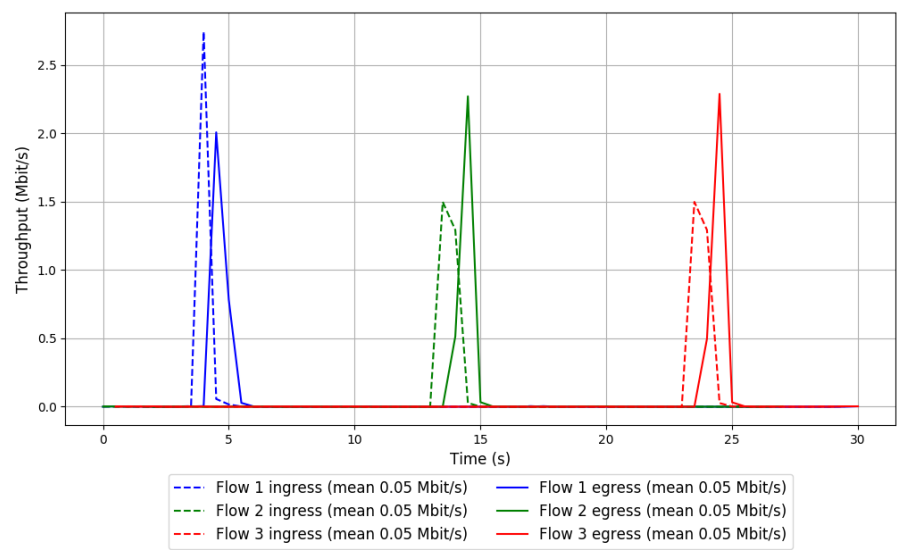


Run 5: Statistics of WebRTC media

Start at: 2018-05-23 01:23:58
End at: 2018-05-23 01:24:28
Local clock offset: -0.041 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2018-05-23 05:30:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 67.422 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 67.900 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 67.175 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 67.955 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-05-23 01:46:30

End at: 2018-05-23 01:47:00

Local clock offset: 0.197 ms

Remote clock offset: 0.168 ms

Below is generated by plot.py at 2018-05-23 05:30:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 67.622 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 68.160 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 67.653 ms

Loss rate: 0.00%

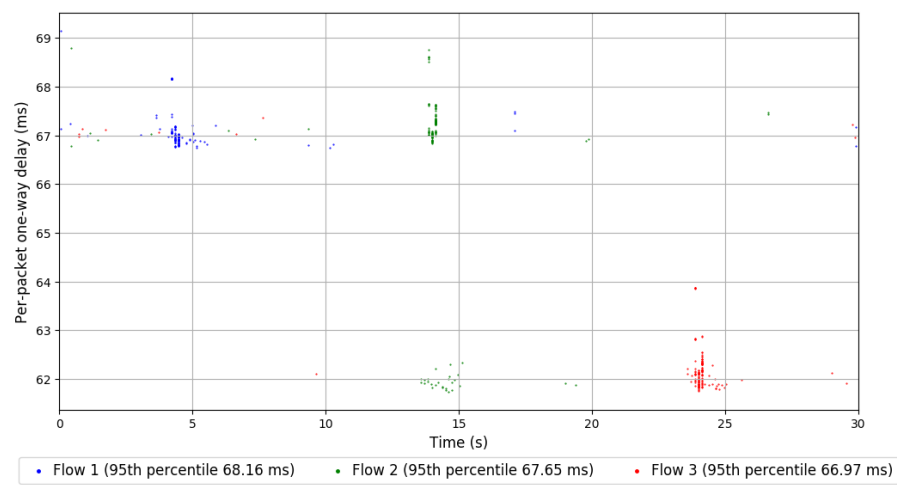
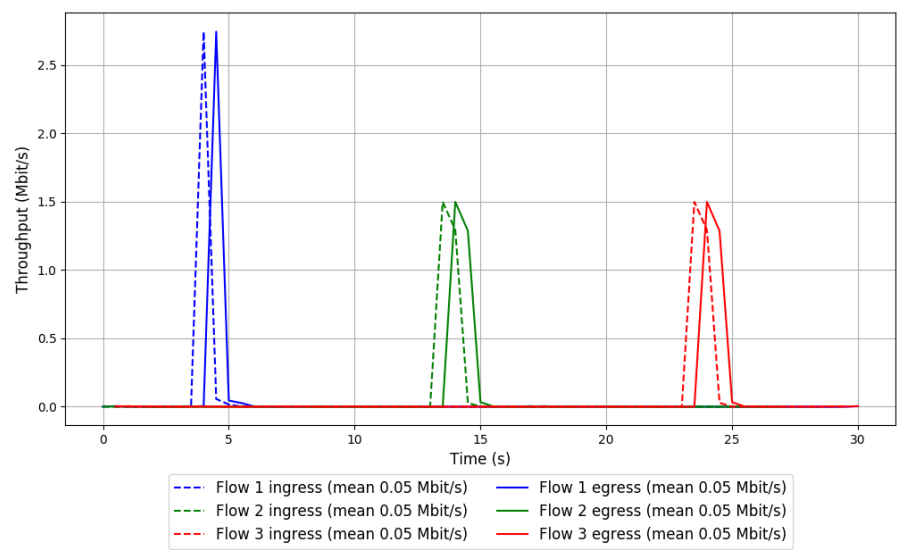
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 66.972 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-05-23 02:08:17

End at: 2018-05-23 02:08:47

Local clock offset: 0.073 ms

Remote clock offset: 0.104 ms

Below is generated by plot.py at 2018-05-23 05:30:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 67.023 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 66.992 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 67.257 ms

Loss rate: 0.00%

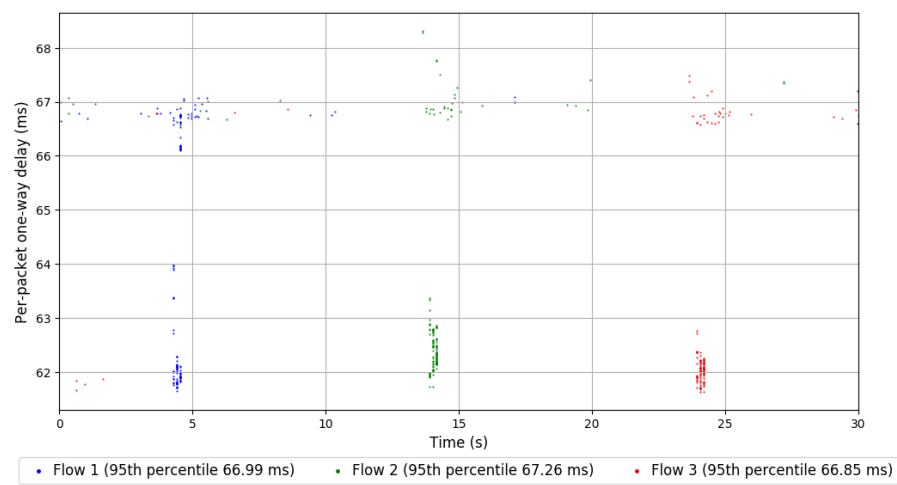
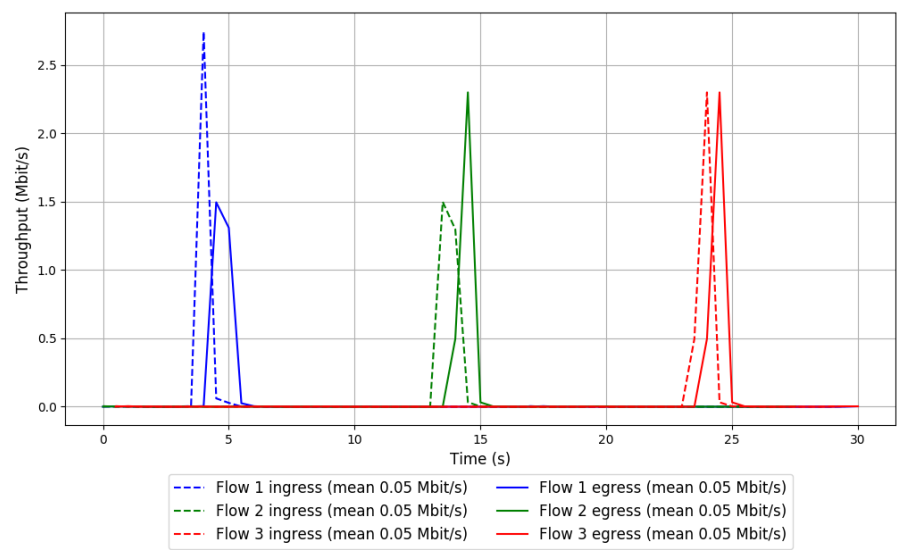
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 66.847 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-05-23 02:30:31

End at: 2018-05-23 02:31:01

Local clock offset: -0.112 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-05-23 05:30:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 67.887 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 69.712 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 67.604 ms

Loss rate: 0.00%

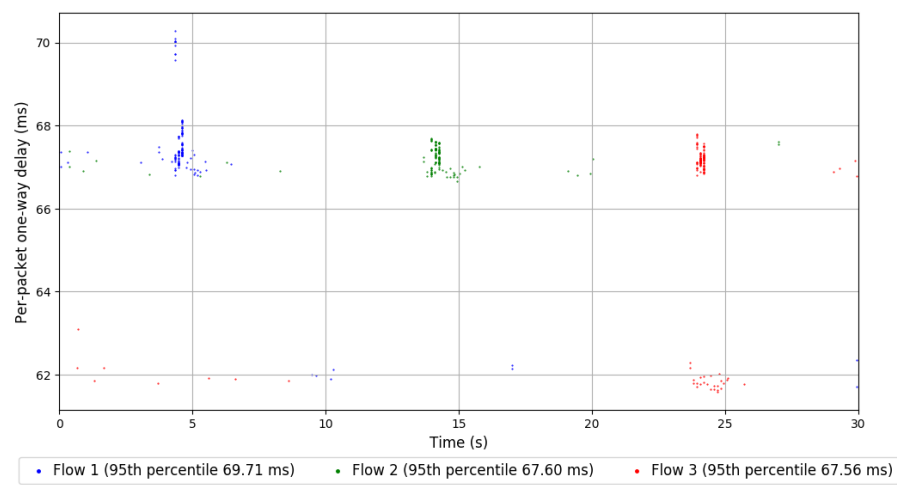
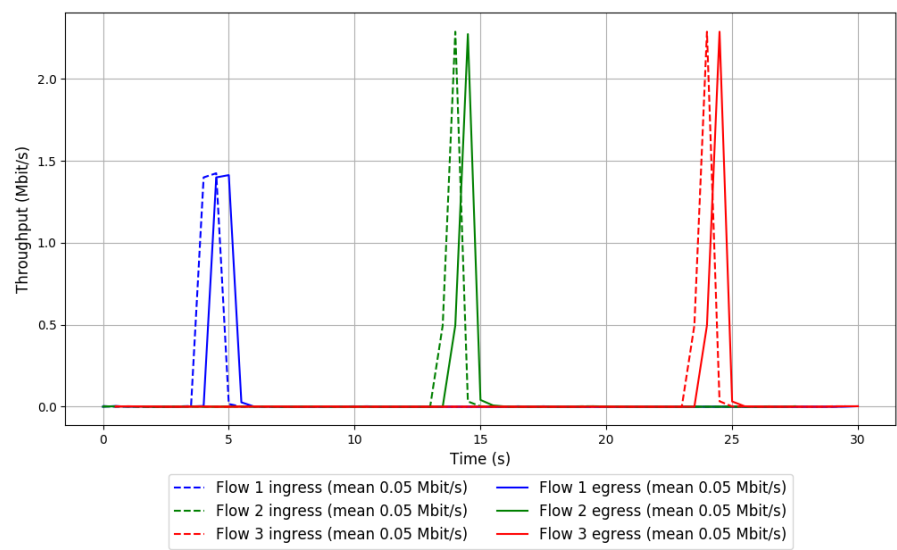
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 67.555 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

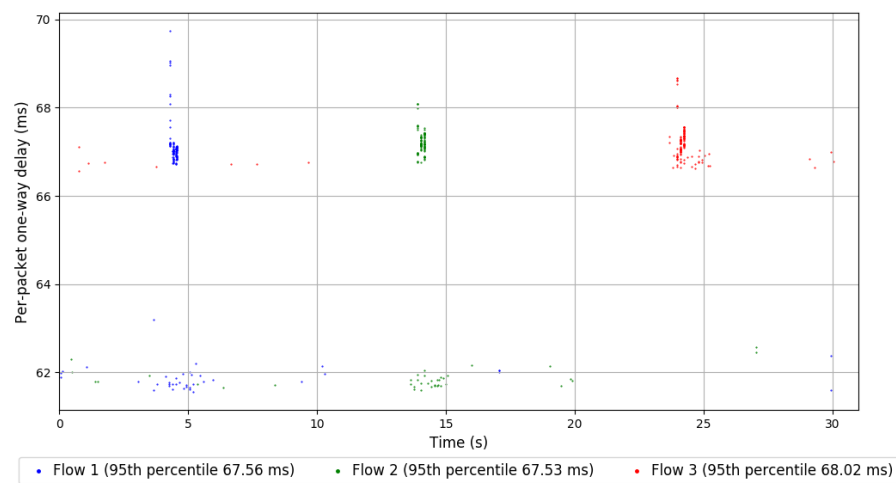
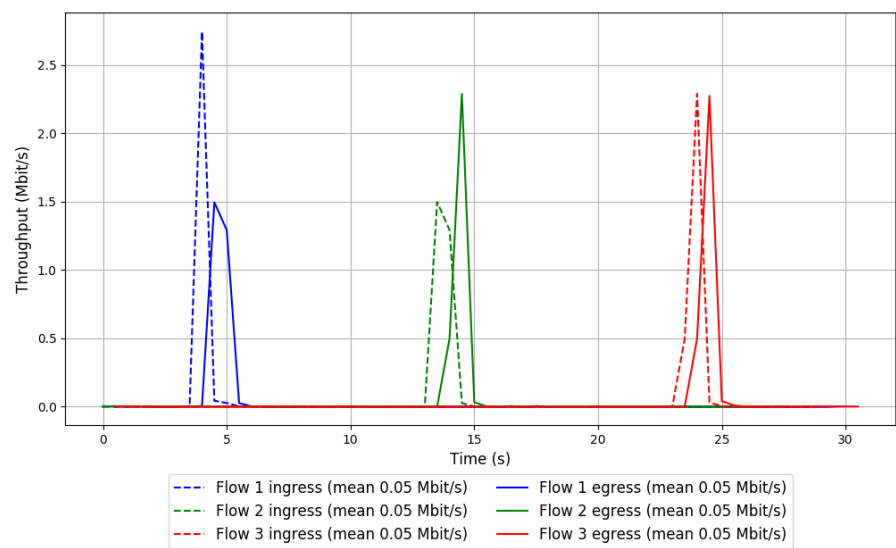


Run 9: Statistics of WebRTC media

Start at: 2018-05-23 02:52:41
End at: 2018-05-23 02:53:11
Local clock offset: 0.518 ms
Remote clock offset: -0.157 ms

Below is generated by plot.py at 2018-05-23 05:30:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 67.591 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 67.560 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 67.529 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 68.020 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-23 03:14:57
End at: 2018-05-23 03:15:27
Local clock offset: 0.715 ms
Remote clock offset: -0.179 ms

Below is generated by plot.py at 2018-05-23 05:30:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 67.976 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 68.143 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 68.852 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 66.972 ms
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

