

Pantheon Report

Generated at 2018-11-30 23:50:11 (UTC).

Data path: GCE Tokyo on `ens4` (*remote*) → GCE Iowa on `ens4` (*local*).

Repeated the test of 19 congestion control schemes 5 times.

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

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

System info:

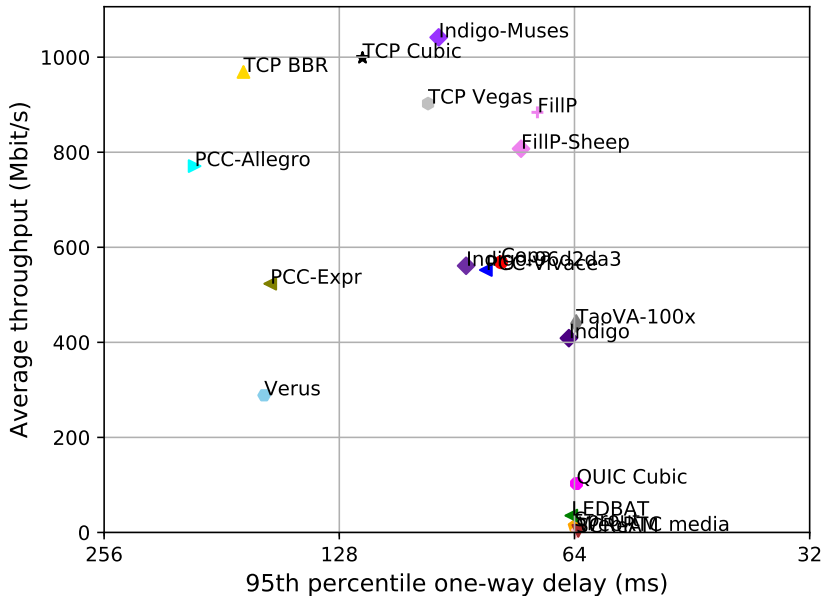
```
Linux 4.15.0-1024-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

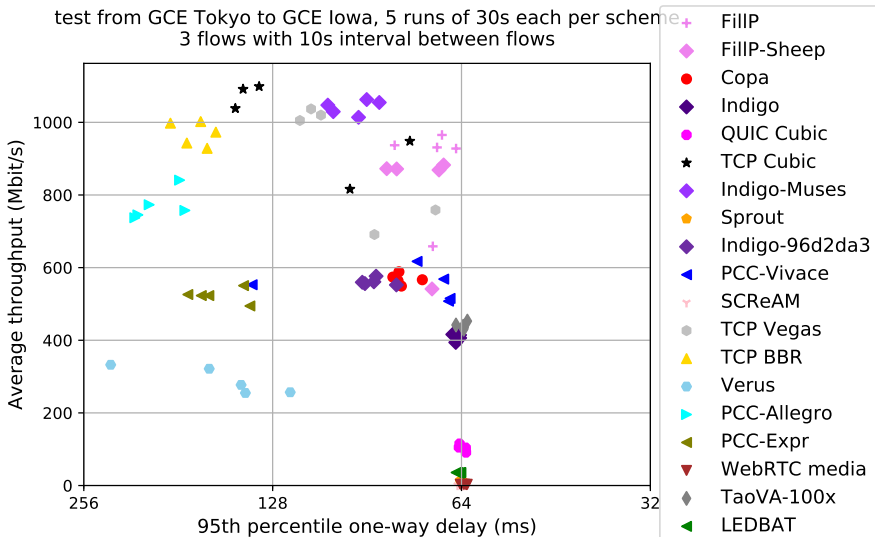
```
branch: muses @ 7b6dad87cde3ab65f7c4052140eb54098aa58e9d
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-96d2da3 @ 8413272d46f8aa0bcb967ed7048b6a8f994abb95
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 65ac1b19bbefed0c6349ae986009b4fa8643c40a
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
```

```
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from GCE Tokyo to GCE Iowa, 5 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE Tokyo to GCE Iowa, 5 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	5	509.36	477.78	432.44	170.66	167.99	156.05	1.49	1.36	2.10
Copa	5	298.74	281.75	250.27	80.07	78.64	77.21	0.38	0.62	1.44
TCP Cubic	5	564.58	432.48	444.56	109.61	117.33	108.38	0.48	0.72	1.61
FillP	5	540.73	381.45	274.19	73.42	69.68	68.11	0.28	0.45	1.34
FillP-Sheep	5	487.22	349.77	267.68	78.60	67.65	66.19	0.21	0.55	1.32
Indigo	5	216.16	201.40	177.89	64.95	65.05	65.28	0.42	0.64	1.47
Indigo-96d2da3	5	292.82	280.85	250.86	86.05	90.47	87.06	0.54	0.68	1.39
LEDBAT	5	23.12	14.91	7.59	64.67	64.41	63.98	0.84	1.08	2.57
Indigo-Muses	5	572.00	508.55	403.92	93.33	97.29	93.22	0.37	0.65	1.69
PCC-Allegro	5	436.05	364.33	287.28	195.89	170.30	153.49	5.57	5.96	4.04
PCC-Expr	5	316.07	263.20	99.93	153.83	160.33	68.33	1.45	1.66	1.61
QUIC Cubic	5	60.97	49.65	24.99	63.80	63.37	63.31	0.49	0.76	1.63
SCReAM	5	0.22	0.22	0.22	63.62	63.54	63.49	0.38	0.61	1.30
Sprout	5	6.79	6.65	6.47	63.95	64.00	64.02	0.43	0.70	1.53
TaoVA-100x	5	223.24	219.26	214.96	63.60	63.96	63.66	0.45	0.73	1.45
TCP Vegas	5	494.06	403.50	425.10	95.16	78.49	85.16	0.46	0.54	1.33
Verus	5	167.98	140.38	83.70	163.39	142.84	83.82	0.80	1.63	1.58
PCC-Vivace	5	328.86	261.48	152.56	79.71	95.72	84.97	0.82	0.89	1.80
WebRTC media	5	1.71	1.14	0.45	63.20	63.26	63.03	0.60	0.81	1.62

Run 1: Statistics of TCP BBR

Start at: 2018-11-30 18:37:08

End at: 2018-11-30 18:37:38

Local clock offset: -0.175 ms

Remote clock offset: 1.146 ms

Below is generated by plot.py at 2018-11-30 21:37:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 973.06 Mbit/s

95th percentile per-packet one-way delay: 157.681 ms

Loss rate: 1.35%

-- Flow 1:

Average throughput: 543.46 Mbit/s

95th percentile per-packet one-way delay: 153.980 ms

Loss rate: 1.26%

-- Flow 2:

Average throughput: 434.37 Mbit/s

95th percentile per-packet one-way delay: 159.385 ms

Loss rate: 0.75%

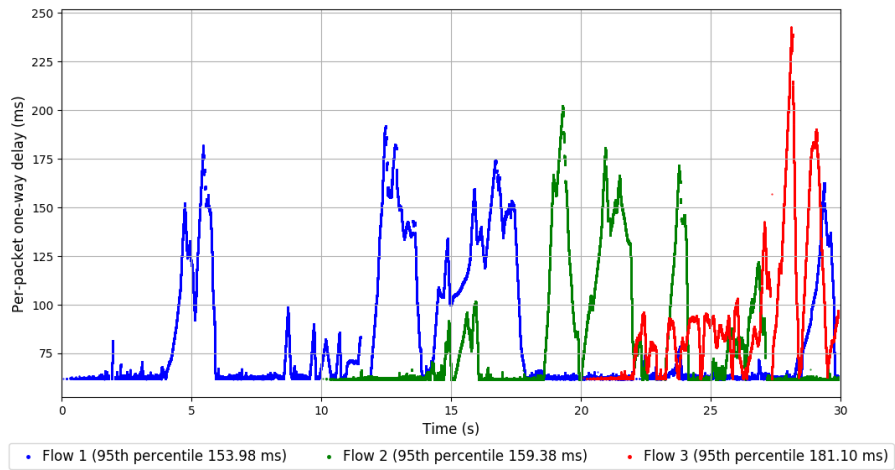
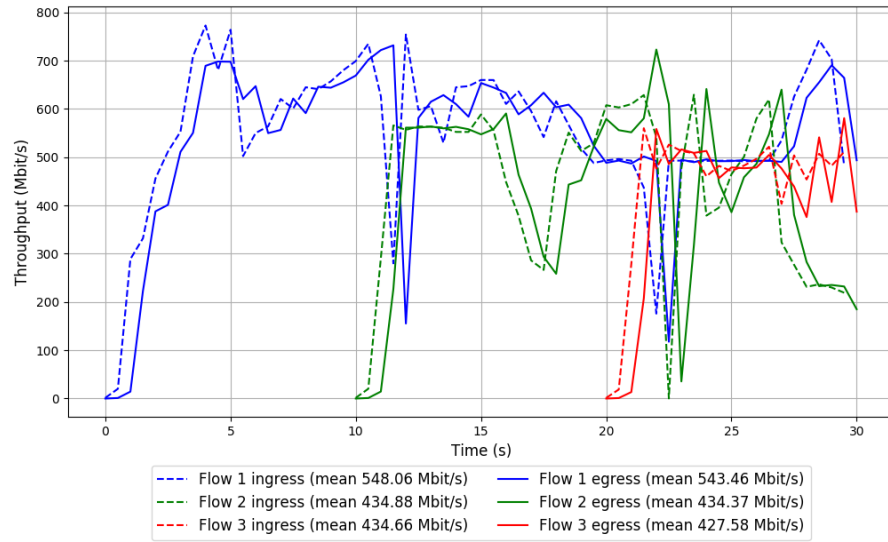
-- Flow 3:

Average throughput: 427.58 Mbit/s

95th percentile per-packet one-way delay: 181.097 ms

Loss rate: 2.88%

Run 1: Report of TCP BBR — Data Link

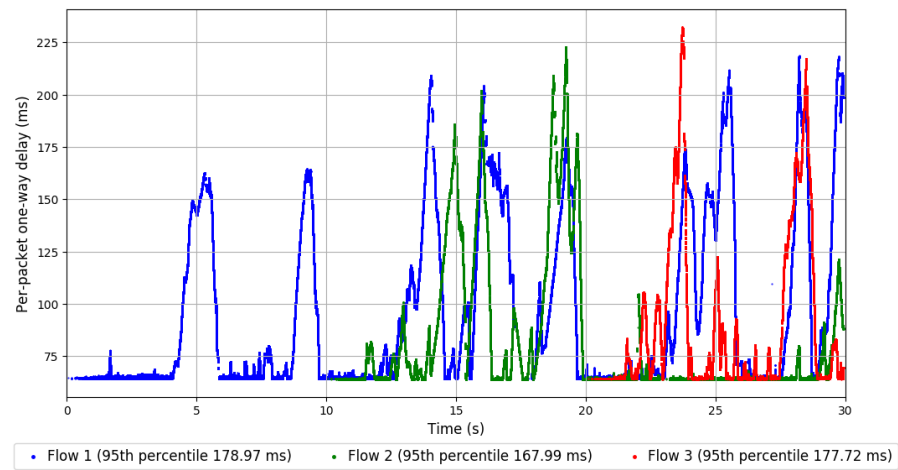
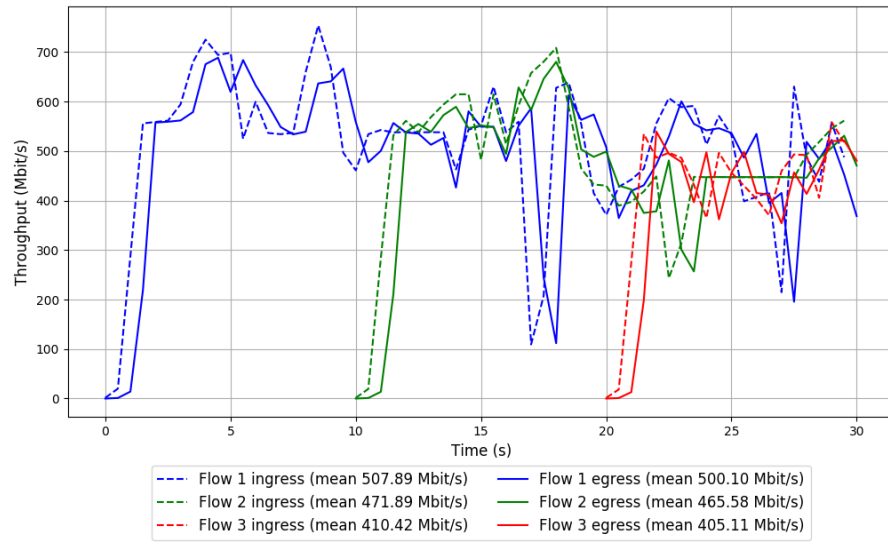


Run 2: Statistics of TCP BBR

Start at: 2018-11-30 19:10:21
End at: 2018-11-30 19:10:51
Local clock offset: -0.176 ms
Remote clock offset: -1.216 ms

Below is generated by plot.py at 2018-11-30 21:37:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 943.05 Mbit/s
95th percentile per-packet one-way delay: 175.407 ms
Loss rate: 2.04%
-- Flow 1:
Average throughput: 500.10 Mbit/s
95th percentile per-packet one-way delay: 178.974 ms
Loss rate: 1.95%
-- Flow 2:
Average throughput: 465.58 Mbit/s
95th percentile per-packet one-way delay: 167.986 ms
Loss rate: 1.96%
-- Flow 3:
Average throughput: 405.11 Mbit/s
95th percentile per-packet one-way delay: 177.725 ms
Loss rate: 2.55%

Run 2: Report of TCP BBR — Data Link

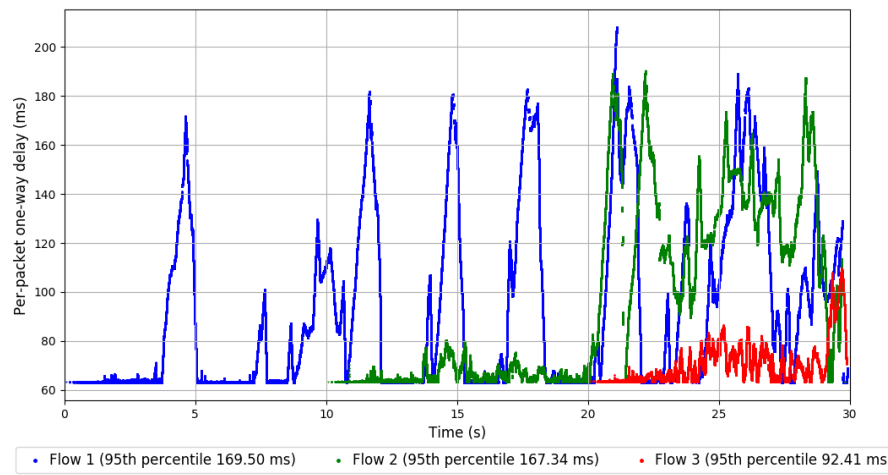
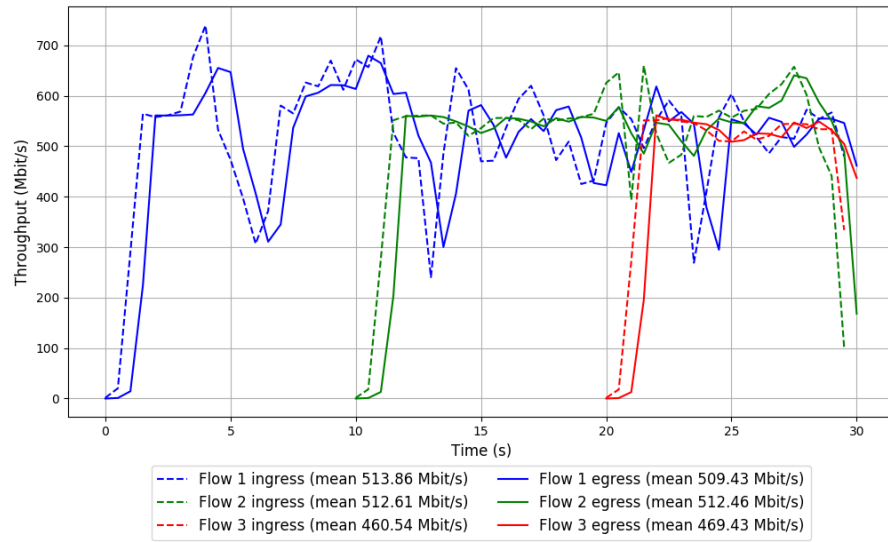


Run 3: Statistics of TCP BBR

Start at: 2018-11-30 19:43:51
End at: 2018-11-30 19:44:21
Local clock offset: -0.042 ms
Remote clock offset: -0.128 ms

Below is generated by plot.py at 2018-11-30 21:38:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 1002.18 Mbit/s
95th percentile per-packet one-way delay: 166.695 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 509.43 Mbit/s
95th percentile per-packet one-way delay: 169.502 ms
Loss rate: 1.28%
-- Flow 2:
Average throughput: 512.46 Mbit/s
95th percentile per-packet one-way delay: 167.336 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 469.43 Mbit/s
95th percentile per-packet one-way delay: 92.414 ms
Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link

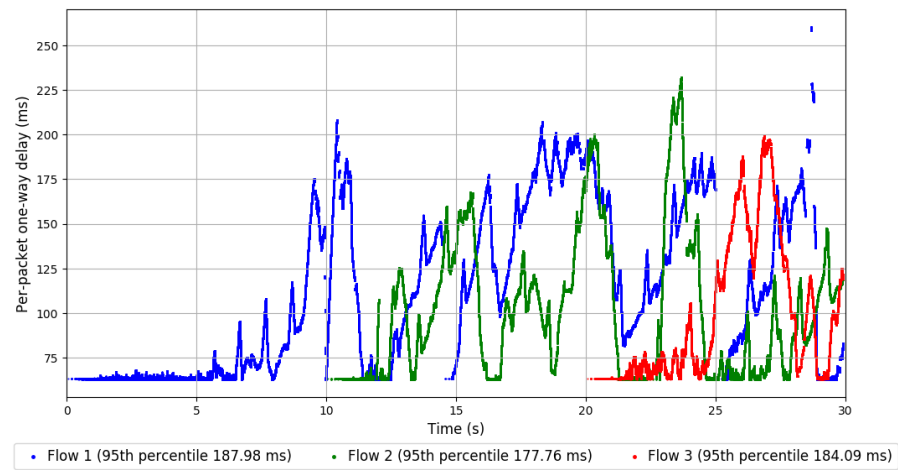
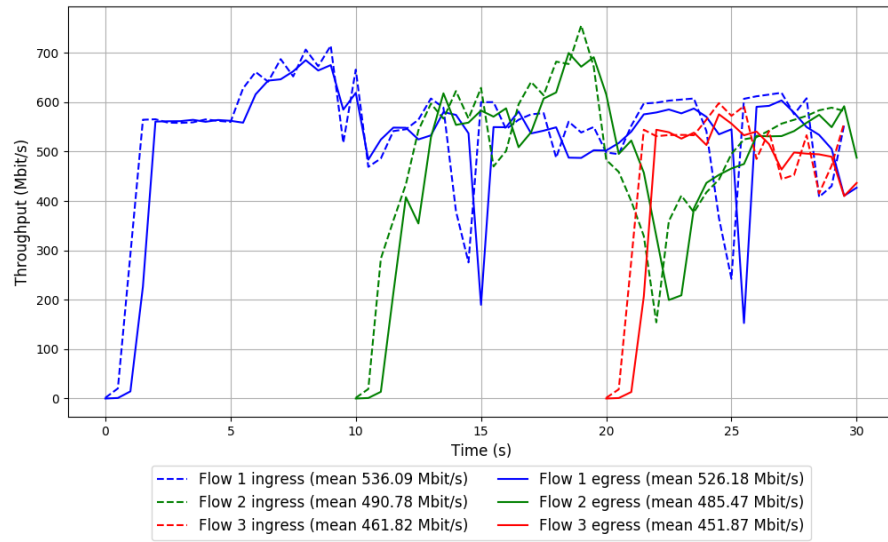


Run 4: Statistics of TCP BBR

Start at: 2018-11-30 20:17:32
End at: 2018-11-30 20:18:02
Local clock offset: -0.03 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-11-30 21:38:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 997.75 Mbit/s
95th percentile per-packet one-way delay: 186.271 ms
Loss rate: 2.26%
-- Flow 1:
Average throughput: 526.18 Mbit/s
95th percentile per-packet one-way delay: 187.976 ms
Loss rate: 2.26%
-- Flow 2:
Average throughput: 485.47 Mbit/s
95th percentile per-packet one-way delay: 177.760 ms
Loss rate: 1.71%
-- Flow 3:
Average throughput: 451.87 Mbit/s
95th percentile per-packet one-way delay: 184.086 ms
Loss rate: 3.40%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-11-30 20:50:49

End at: 2018-11-30 20:51:19

Local clock offset: 0.009 ms

Remote clock offset: 0.227 ms

Below is generated by plot.py at 2018-11-30 21:38:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 928.49 Mbit/s

95th percentile per-packet one-way delay: 162.792 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 467.61 Mbit/s

95th percentile per-packet one-way delay: 162.851 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 491.04 Mbit/s

95th percentile per-packet one-way delay: 167.474 ms

Loss rate: 1.70%

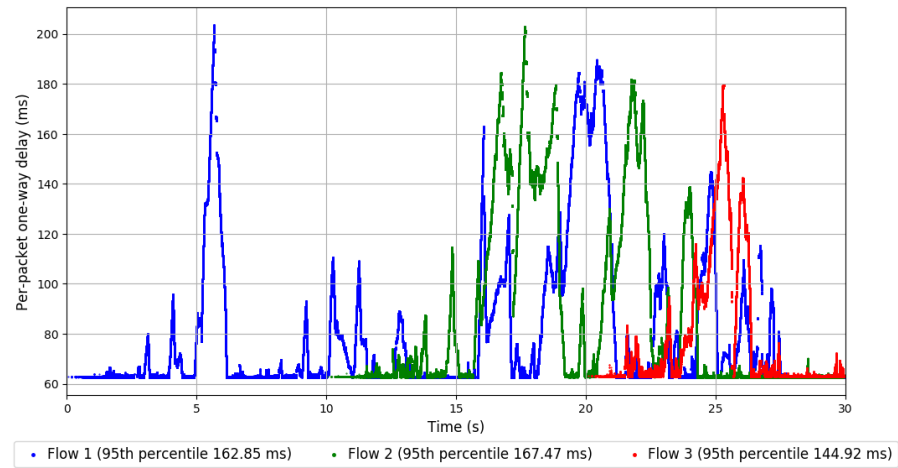
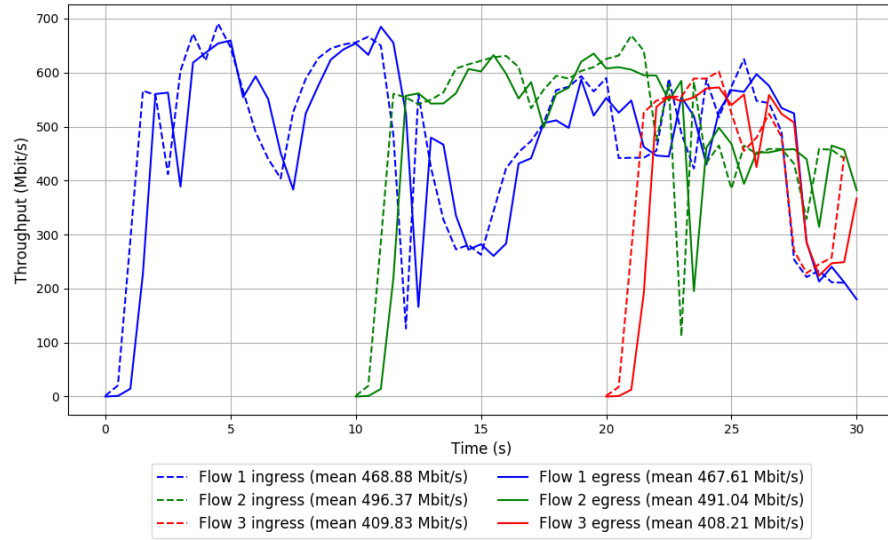
-- Flow 3:

Average throughput: 408.21 Mbit/s

95th percentile per-packet one-way delay: 144.921 ms

Loss rate: 1.67%

Run 5: Report of TCP BBR — Data Link

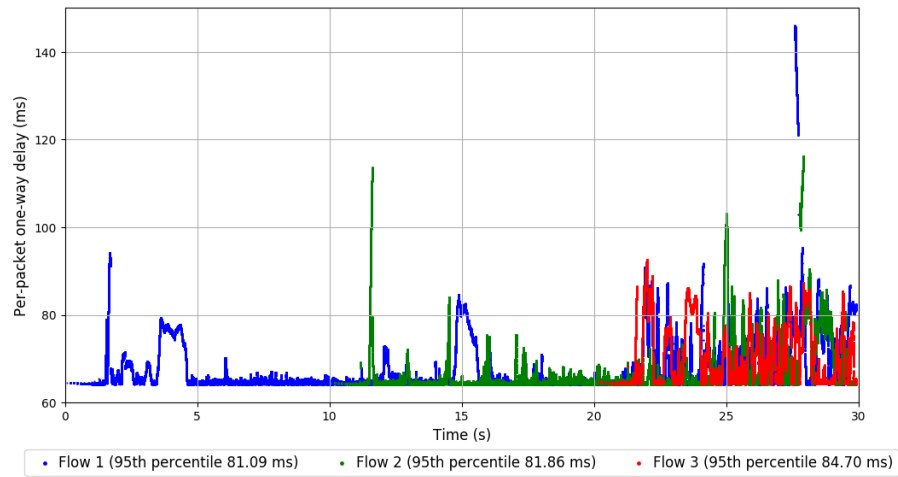
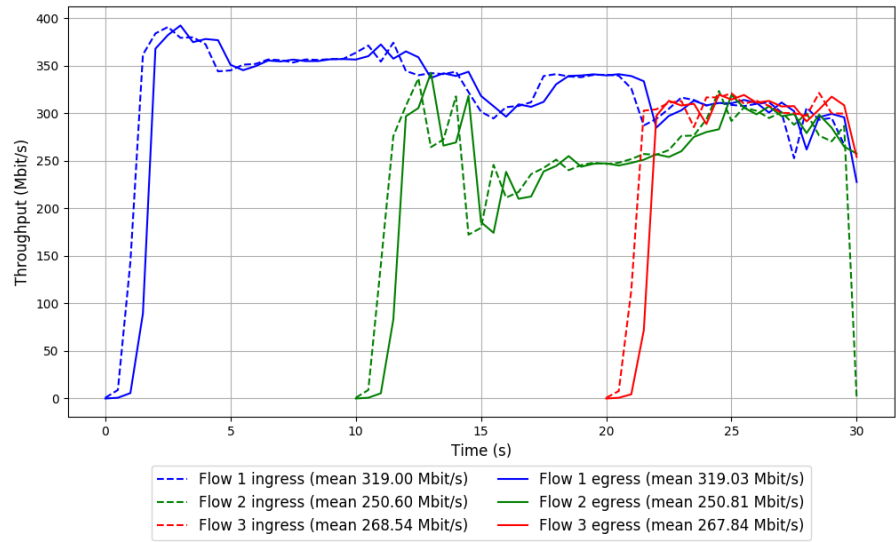


Run 1: Statistics of Copa

Start at: 2018-11-30 18:39:16
End at: 2018-11-30 18:39:46
Local clock offset: -0.151 ms
Remote clock offset: -1.373 ms

Below is generated by plot.py at 2018-11-30 21:39:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 573.93 Mbit/s
95th percentile per-packet one-way delay: 82.341 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 319.03 Mbit/s
95th percentile per-packet one-way delay: 81.089 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 250.81 Mbit/s
95th percentile per-packet one-way delay: 81.860 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 267.84 Mbit/s
95th percentile per-packet one-way delay: 84.705 ms
Loss rate: 1.52%

Run 1: Report of Copa — Data Link

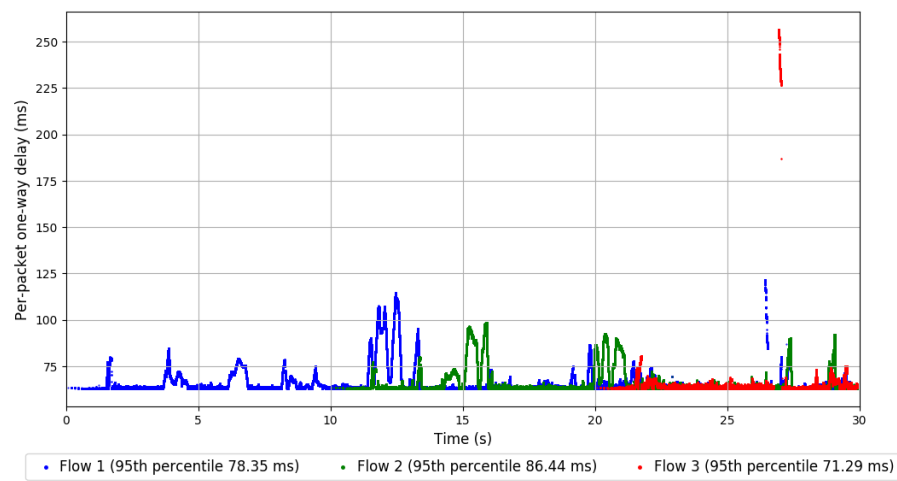
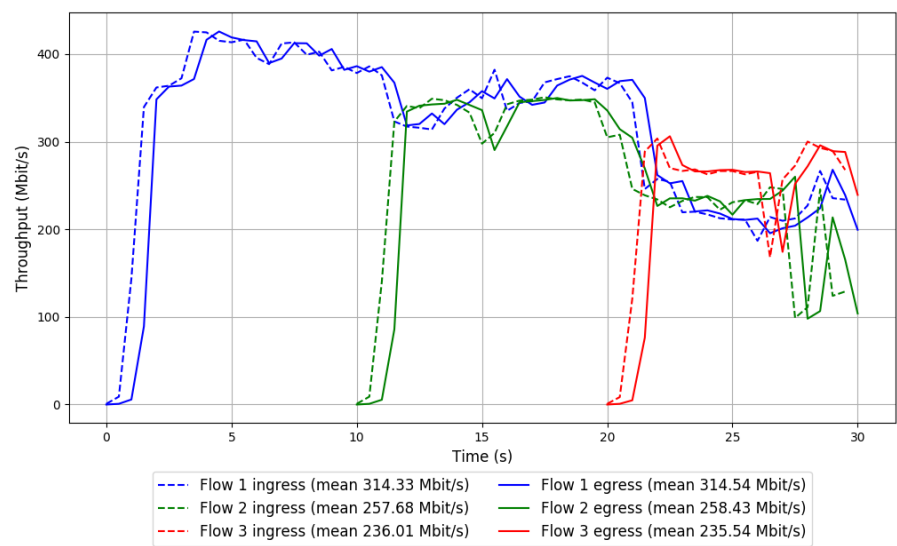


Run 2: Statistics of Copa

Start at: 2018-11-30 19:12:27
End at: 2018-11-30 19:12:58
Local clock offset: -0.153 ms
Remote clock offset: -0.192 ms

Below is generated by plot.py at 2018-11-30 21:39:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 563.92 Mbit/s
95th percentile per-packet one-way delay: 80.782 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 314.54 Mbit/s
95th percentile per-packet one-way delay: 78.350 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 258.43 Mbit/s
95th percentile per-packet one-way delay: 86.438 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 235.54 Mbit/s
95th percentile per-packet one-way delay: 71.287 ms
Loss rate: 1.47%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-11-30 19:46:01

End at: 2018-11-30 19:46:31

Local clock offset: -0.042 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-11-30 21:39:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 588.56 Mbit/s

95th percentile per-packet one-way delay: 80.519 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 308.49 Mbit/s

95th percentile per-packet one-way delay: 82.931 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 302.54 Mbit/s

95th percentile per-packet one-way delay: 77.314 ms

Loss rate: 0.67%

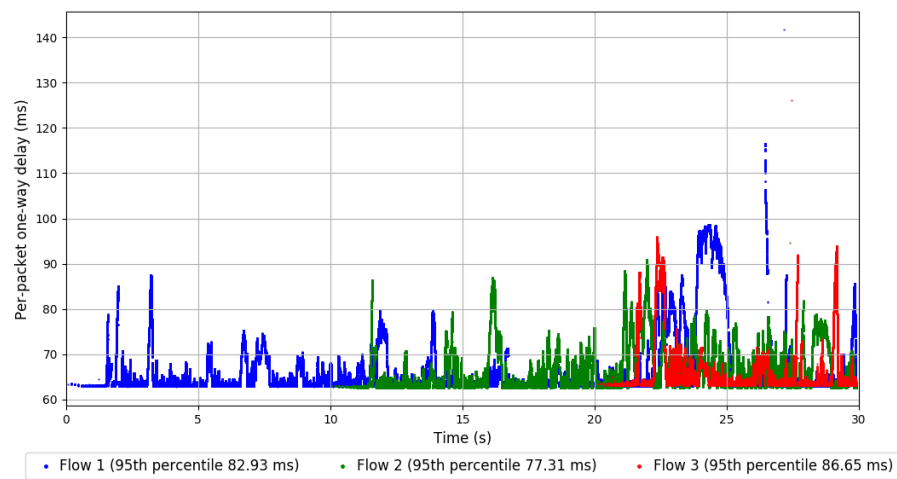
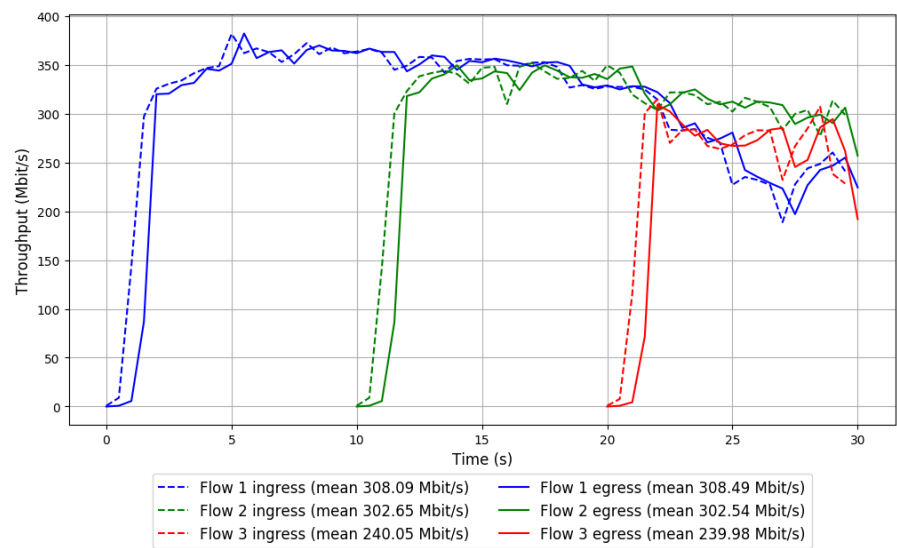
-- Flow 3:

Average throughput: 239.98 Mbit/s

95th percentile per-packet one-way delay: 86.648 ms

Loss rate: 1.28%

Run 3: Report of Copa — Data Link

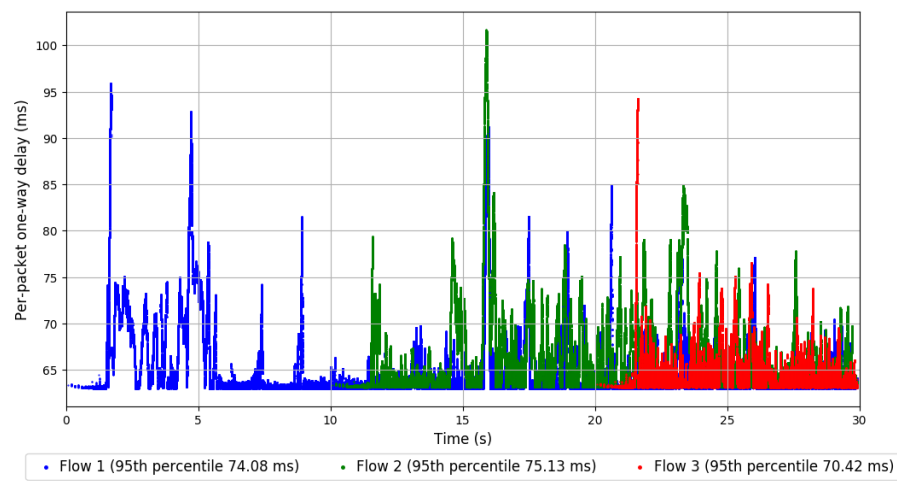
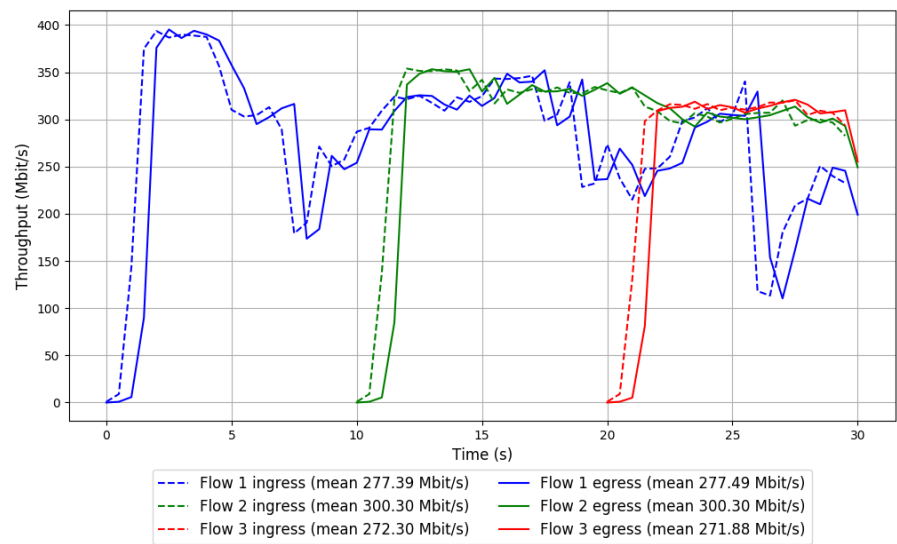


Run 4: Statistics of Copa

Start at: 2018-11-30 20:19:40
End at: 2018-11-30 20:20:10
Local clock offset: -0.032 ms
Remote clock offset: -0.114 ms

Below is generated by plot.py at 2018-11-30 21:56:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 566.63 Mbit/s
95th percentile per-packet one-way delay: 73.893 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 277.49 Mbit/s
95th percentile per-packet one-way delay: 74.082 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 300.30 Mbit/s
95th percentile per-packet one-way delay: 75.131 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 271.88 Mbit/s
95th percentile per-packet one-way delay: 70.418 ms
Loss rate: 1.42%

Run 4: Report of Copa — Data Link

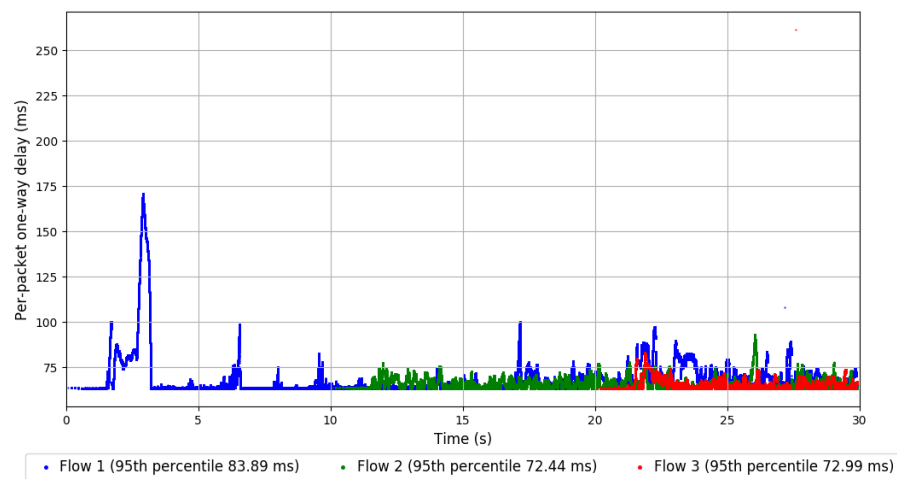
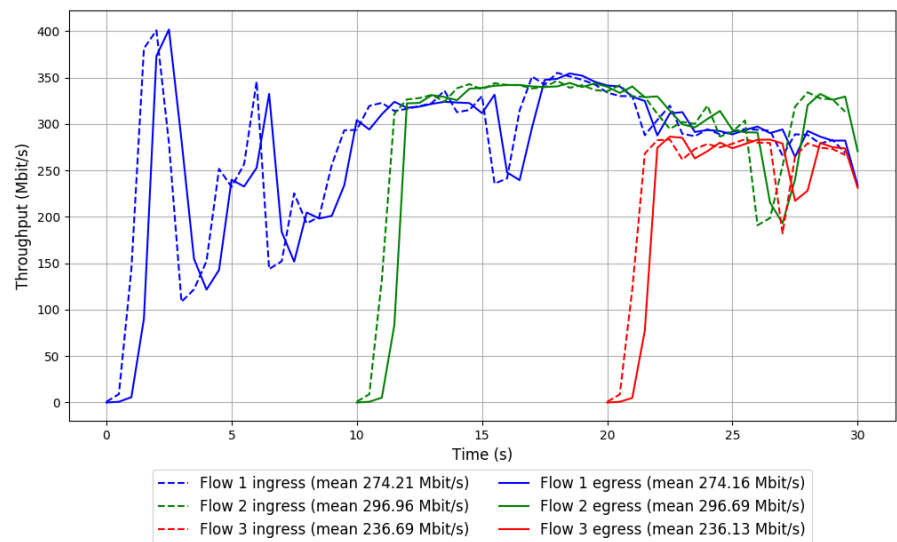


Run 5: Statistics of Copa

Start at: 2018-11-30 20:52:56
End at: 2018-11-30 20:53:26
Local clock offset: -0.032 ms
Remote clock offset: -0.401 ms

Below is generated by plot.py at 2018-11-30 21:56:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 549.17 Mbit/s
95th percentile per-packet one-way delay: 79.798 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 274.16 Mbit/s
95th percentile per-packet one-way delay: 83.886 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 296.69 Mbit/s
95th percentile per-packet one-way delay: 72.442 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 236.13 Mbit/s
95th percentile per-packet one-way delay: 72.992 ms
Loss rate: 1.50%

Run 5: Report of Copa — Data Link

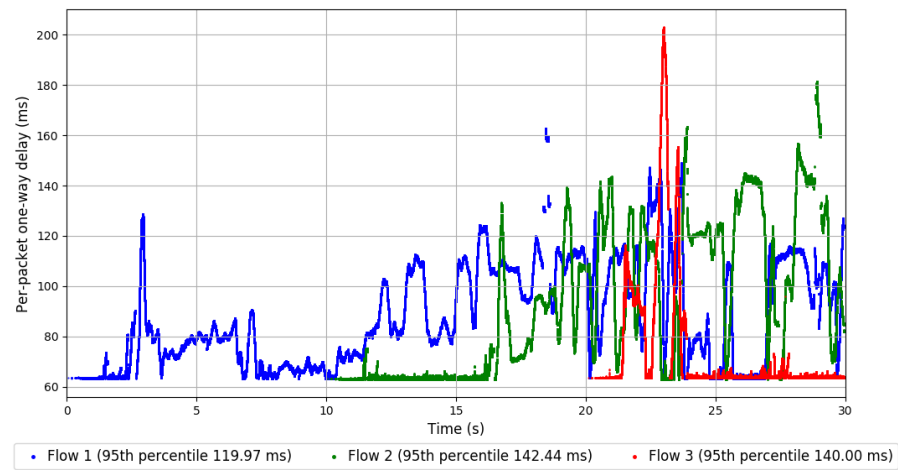
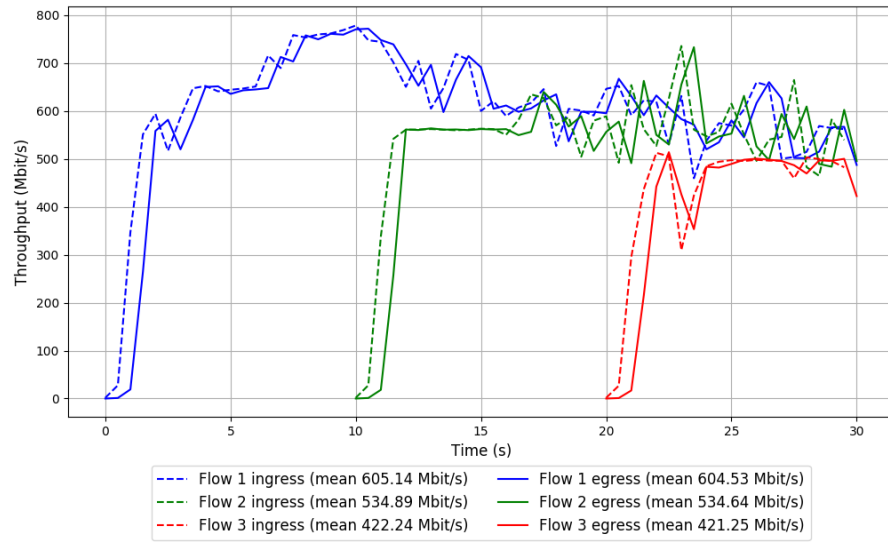


Run 1: Statistics of TCP Cubic

Start at: 2018-11-30 18:33:47
End at: 2018-11-30 18:34:17
Local clock offset: -0.205 ms
Remote clock offset: -0.342 ms

Below is generated by plot.py at 2018-11-30 21:57:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 1098.75 Mbit/s
95th percentile per-packet one-way delay: 134.518 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 604.53 Mbit/s
95th percentile per-packet one-way delay: 119.968 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 534.64 Mbit/s
95th percentile per-packet one-way delay: 142.442 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 421.25 Mbit/s
95th percentile per-packet one-way delay: 139.997 ms
Loss rate: 1.51%

Run 1: Report of TCP Cubic — Data Link

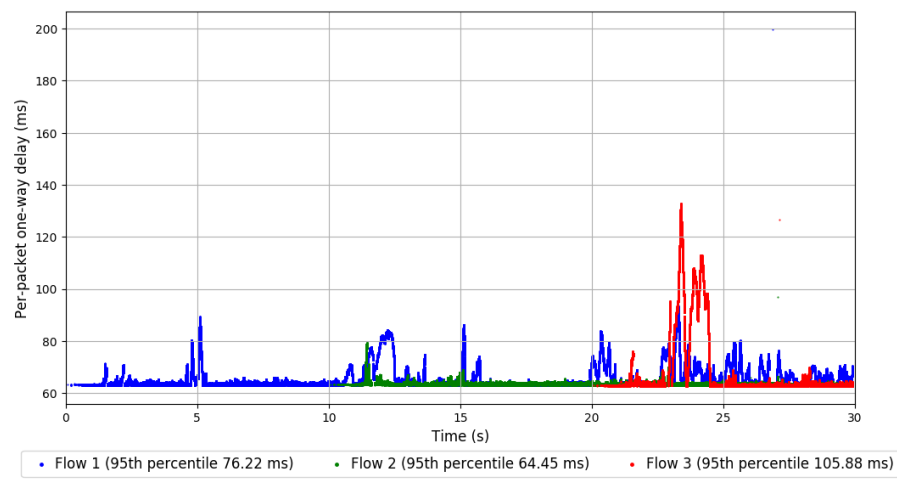
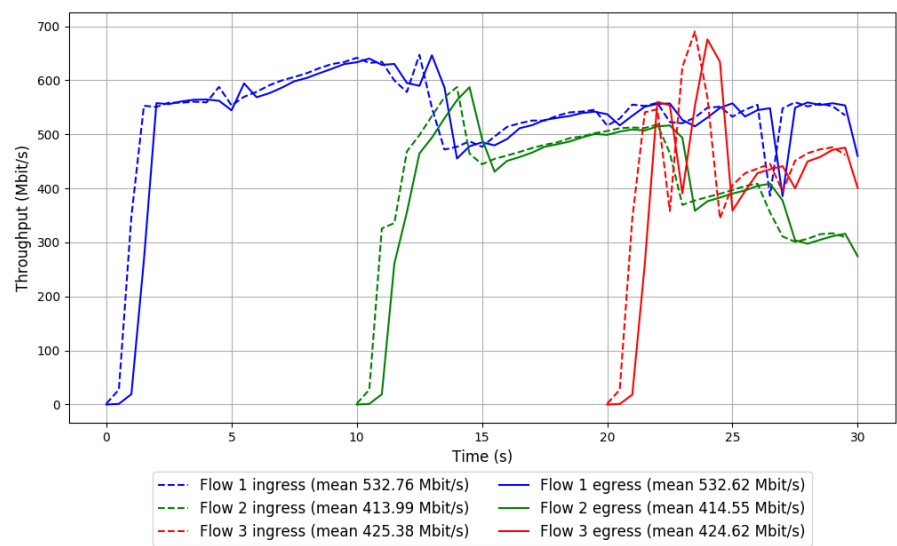


Run 2: Statistics of TCP Cubic

Start at: 2018-11-30 19:07:07
End at: 2018-11-30 19:07:37
Local clock offset: -0.175 ms
Remote clock offset: -0.245 ms

Below is generated by plot.py at 2018-11-30 21:57:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 948.28 Mbit/s
95th percentile per-packet one-way delay: 77.359 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 532.62 Mbit/s
95th percentile per-packet one-way delay: 76.215 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 414.55 Mbit/s
95th percentile per-packet one-way delay: 64.454 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 424.62 Mbit/s
95th percentile per-packet one-way delay: 105.877 ms
Loss rate: 1.44%

Run 2: Report of TCP Cubic — Data Link

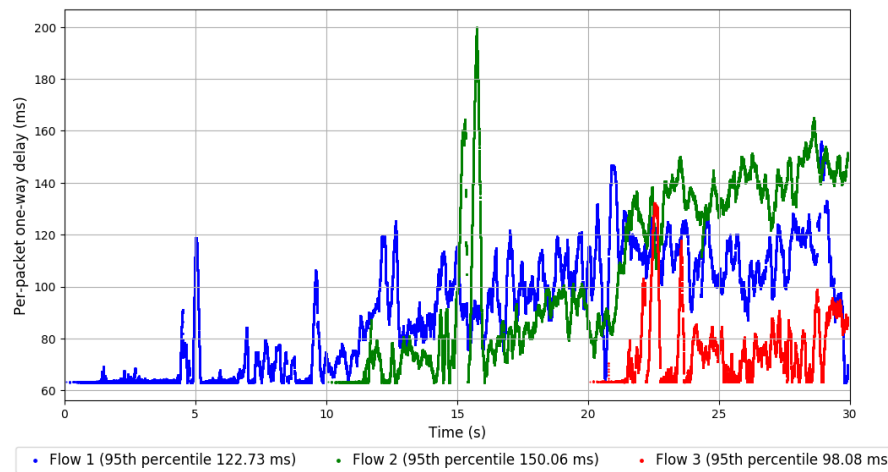
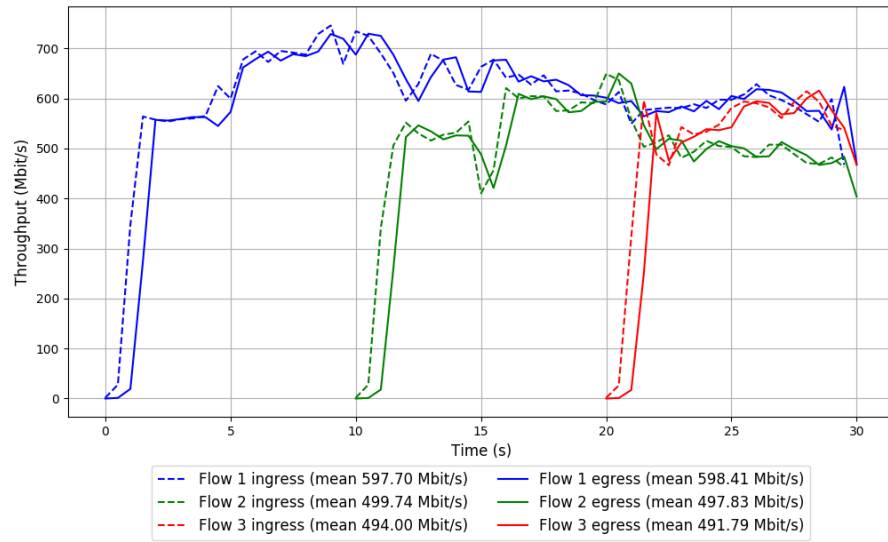


Run 3: Statistics of TCP Cubic

Start at: 2018-11-30 19:40:30
End at: 2018-11-30 19:41:00
Local clock offset: -0.069 ms
Remote clock offset: -0.061 ms

Below is generated by plot.py at 2018-11-30 21:58:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 1091.39 Mbit/s
95th percentile per-packet one-way delay: 142.674 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 598.41 Mbit/s
95th percentile per-packet one-way delay: 122.734 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 497.83 Mbit/s
95th percentile per-packet one-way delay: 150.060 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 491.79 Mbit/s
95th percentile per-packet one-way delay: 98.082 ms
Loss rate: 1.71%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-11-30 20:14:12

End at: 2018-11-30 20:14:42

Local clock offset: 0.006 ms

Remote clock offset: 1.312 ms

Below is generated by plot.py at 2018-11-30 21:58:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 1038.34 Mbit/s

95th percentile per-packet one-way delay: 146.778 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 570.91 Mbit/s

95th percentile per-packet one-way delay: 128.617 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 490.73 Mbit/s

95th percentile per-packet one-way delay: 154.230 ms

Loss rate: 1.08%

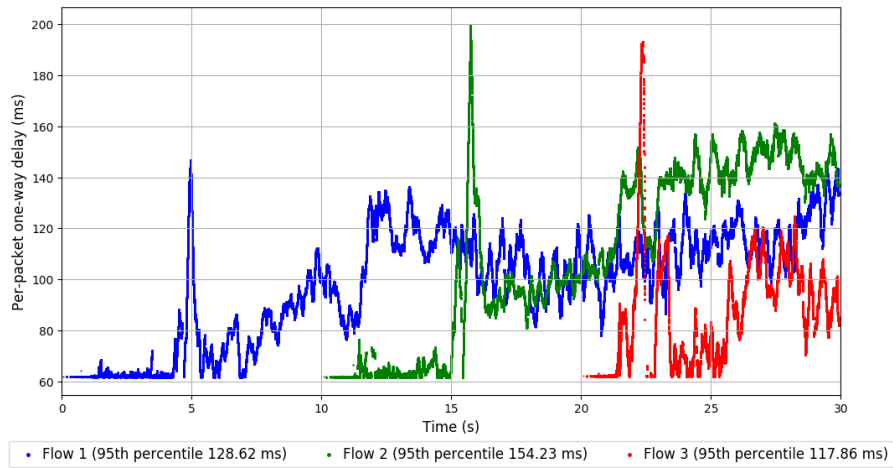
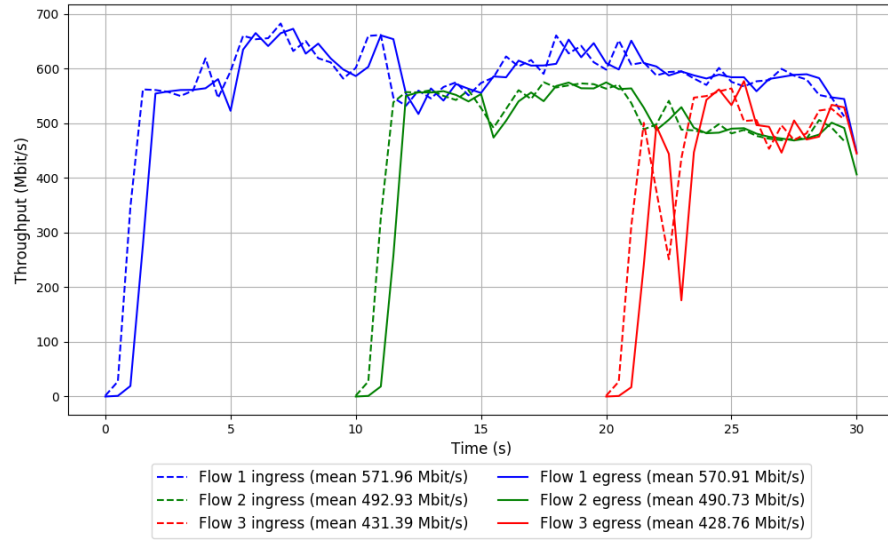
-- Flow 3:

Average throughput: 428.76 Mbit/s

95th percentile per-packet one-way delay: 117.856 ms

Loss rate: 1.87%

Run 4: Report of TCP Cubic — Data Link

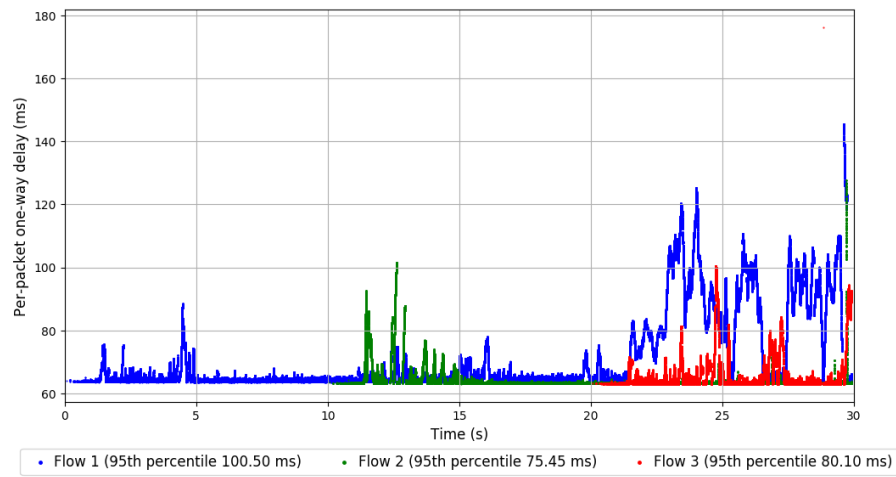
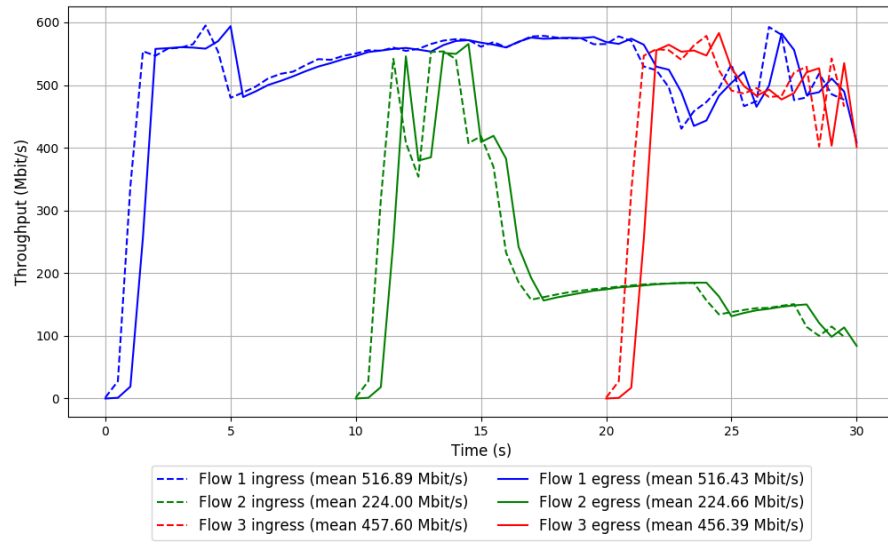


Run 5: Statistics of TCP Cubic

Start at: 2018-11-30 20:47:40
End at: 2018-11-30 20:48:10
Local clock offset: 0.015 ms
Remote clock offset: -0.087 ms

Below is generated by plot.py at 2018-11-30 21:58:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 816.19 Mbit/s
95th percentile per-packet one-way delay: 96.383 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 516.43 Mbit/s
95th percentile per-packet one-way delay: 100.502 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 224.66 Mbit/s
95th percentile per-packet one-way delay: 75.449 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 456.39 Mbit/s
95th percentile per-packet one-way delay: 80.100 ms
Loss rate: 1.52%

Run 5: Report of TCP Cubic — Data Link

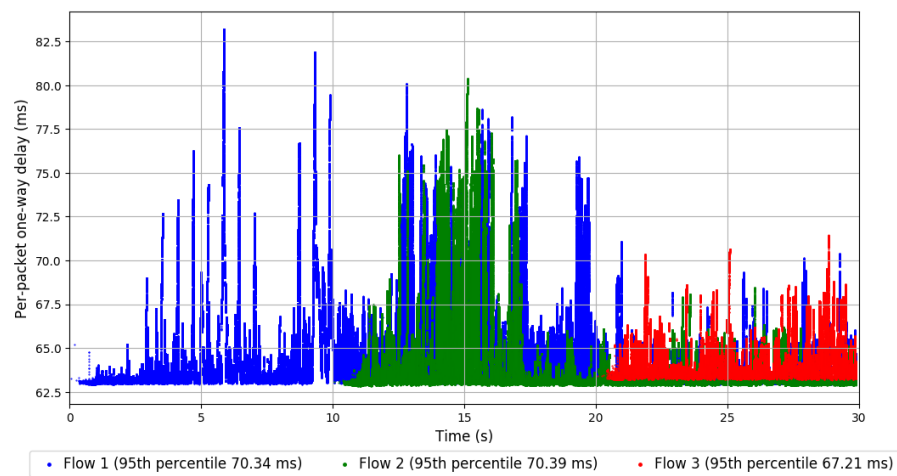
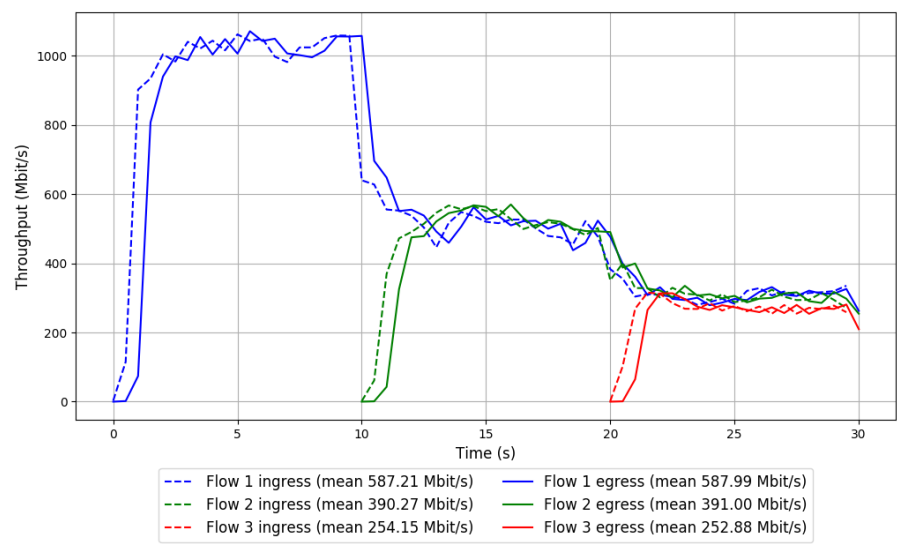


Run 1: Statistics of FillP

Start at: 2018-11-30 18:41:24
End at: 2018-11-30 18:41:54
Local clock offset: -0.198 ms
Remote clock offset: -0.082 ms

Below is generated by plot.py at 2018-11-30 22:00:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 930.94 Mbit/s
95th percentile per-packet one-way delay: 70.005 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 587.99 Mbit/s
95th percentile per-packet one-way delay: 70.340 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 391.00 Mbit/s
95th percentile per-packet one-way delay: 70.386 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 252.88 Mbit/s
95th percentile per-packet one-way delay: 67.212 ms
Loss rate: 1.70%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-11-30 19:14:33

End at: 2018-11-30 19:15:03

Local clock offset: -0.124 ms

Remote clock offset: 0.118 ms

Below is generated by plot.py at 2018-11-30 22:14:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 927.88 Mbit/s

95th percentile per-packet one-way delay: 65.286 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 599.67 Mbit/s

95th percentile per-packet one-way delay: 65.214 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 357.90 Mbit/s

95th percentile per-packet one-way delay: 65.360 ms

Loss rate: 0.25%

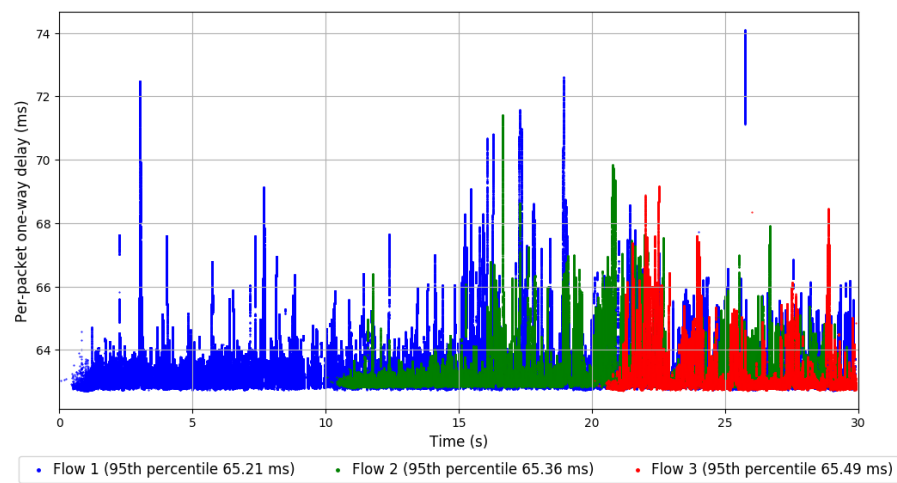
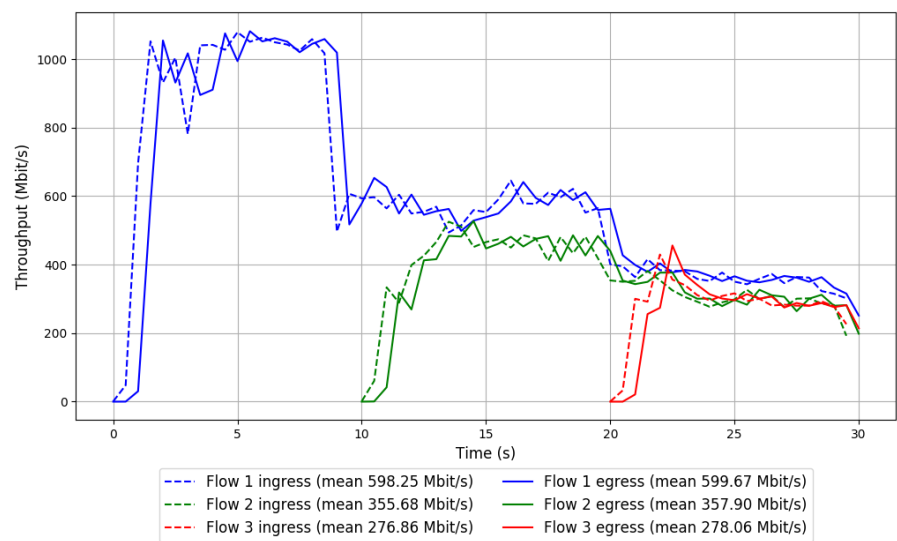
-- Flow 3:

Average throughput: 278.06 Mbit/s

95th percentile per-packet one-way delay: 65.492 ms

Loss rate: 0.83%

Run 2: Report of FillP — Data Link

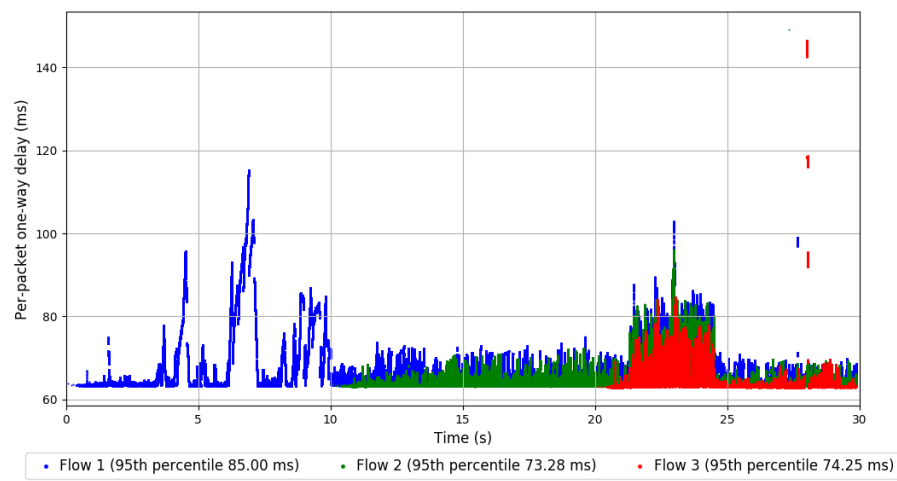
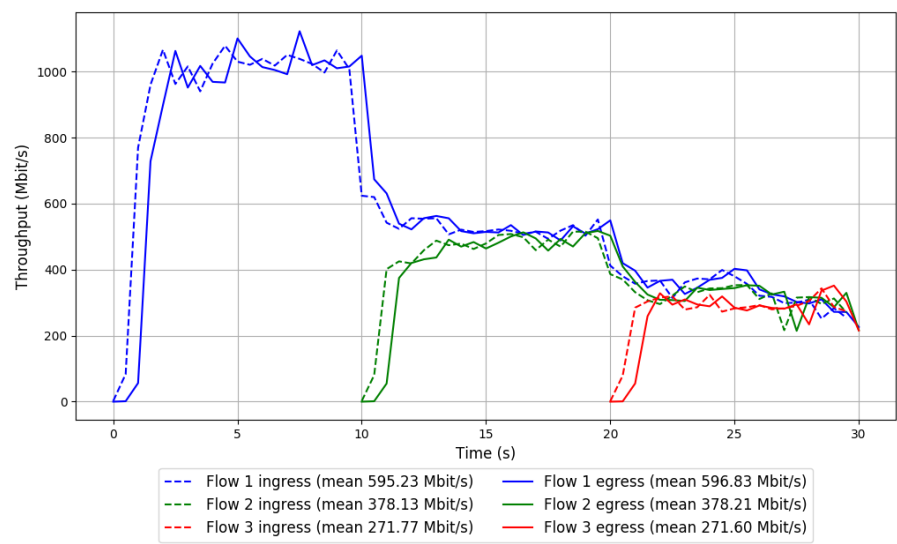


Run 3: Statistics of FillP

Start at: 2018-11-30 19:48:10
End at: 2018-11-30 19:48:40
Local clock offset: 0.006 ms
Remote clock offset: -0.185 ms

Below is generated by plot.py at 2018-11-30 22:16:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 936.96 Mbit/s
95th percentile per-packet one-way delay: 81.792 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 596.83 Mbit/s
95th percentile per-packet one-way delay: 84.998 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 378.21 Mbit/s
95th percentile per-packet one-way delay: 73.277 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 271.60 Mbit/s
95th percentile per-packet one-way delay: 74.245 ms
Loss rate: 1.57%

Run 3: Report of FillP — Data Link

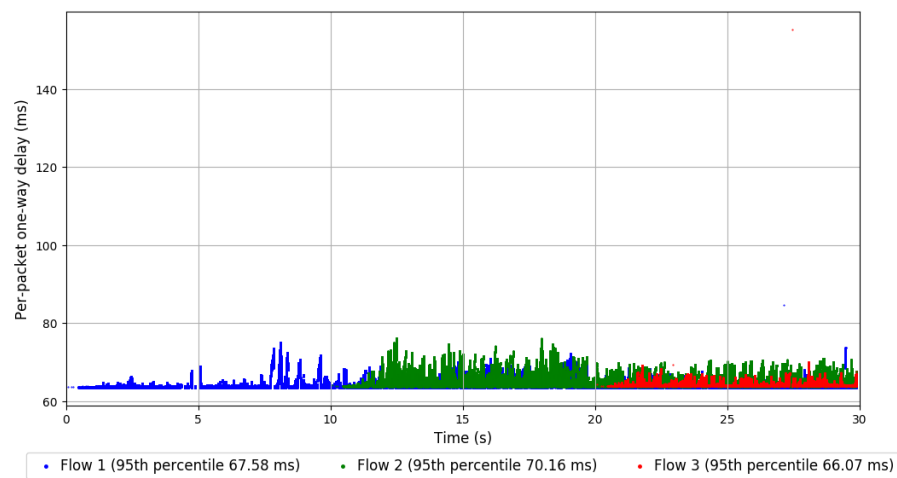
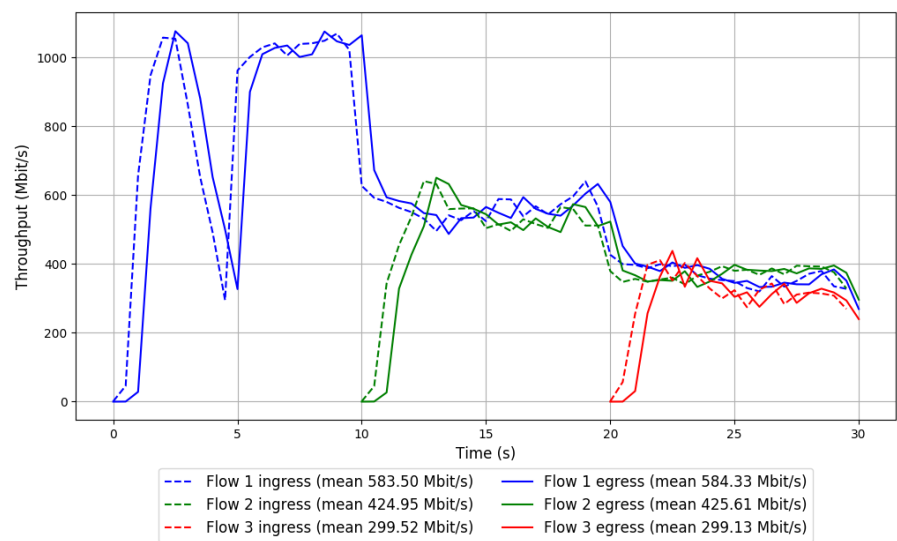


Run 4: Statistics of FillP

Start at: 2018-11-30 20:21:48
End at: 2018-11-30 20:22:18
Local clock offset: 0.011 ms
Remote clock offset: -0.766 ms

Below is generated by plot.py at 2018-11-30 22:17:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 965.27 Mbit/s
95th percentile per-packet one-way delay: 68.753 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 584.33 Mbit/s
95th percentile per-packet one-way delay: 67.583 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 425.61 Mbit/s
95th percentile per-packet one-way delay: 70.155 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 299.13 Mbit/s
95th percentile per-packet one-way delay: 66.070 ms
Loss rate: 1.21%

Run 4: Report of FillP — Data Link

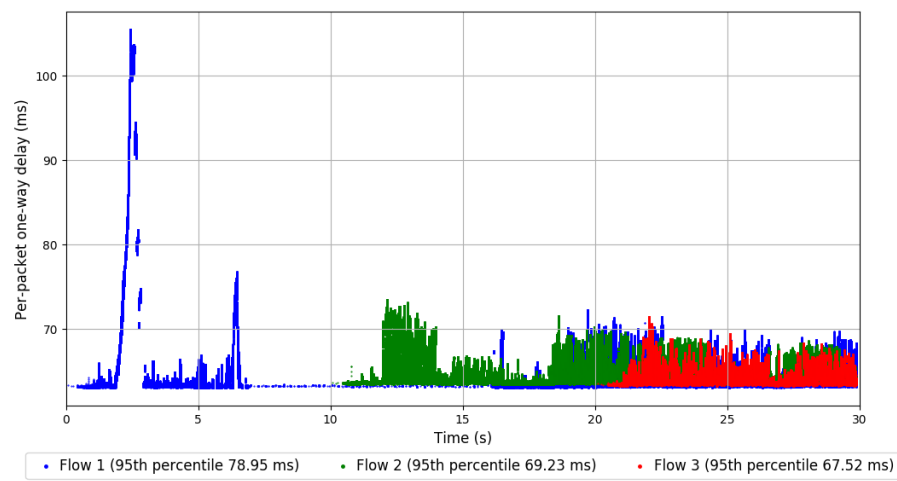
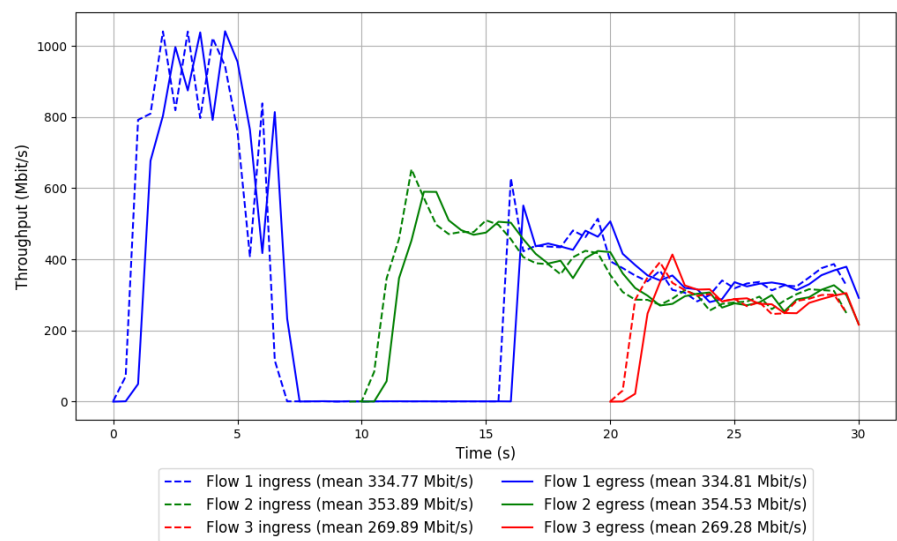


Run 5: Statistics of FillP

Start at: 2018-11-30 20:55:01
End at: 2018-11-30 20:55:31
Local clock offset: -0.049 ms
Remote clock offset: -0.268 ms

Below is generated by plot.py at 2018-11-30 22:17:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 658.63 Mbit/s
95th percentile per-packet one-way delay: 71.104 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 334.81 Mbit/s
95th percentile per-packet one-way delay: 78.953 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 354.53 Mbit/s
95th percentile per-packet one-way delay: 69.234 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 269.28 Mbit/s
95th percentile per-packet one-way delay: 67.521 ms
Loss rate: 1.38%

Run 5: Report of FillP — Data Link

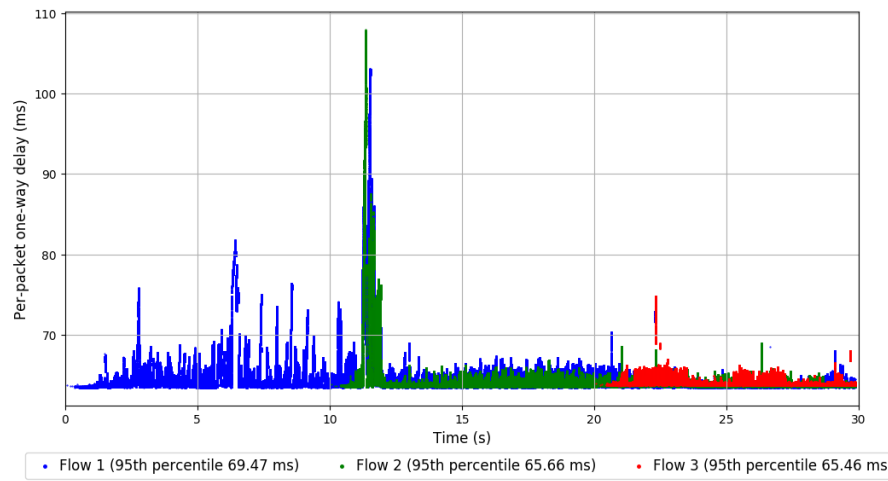
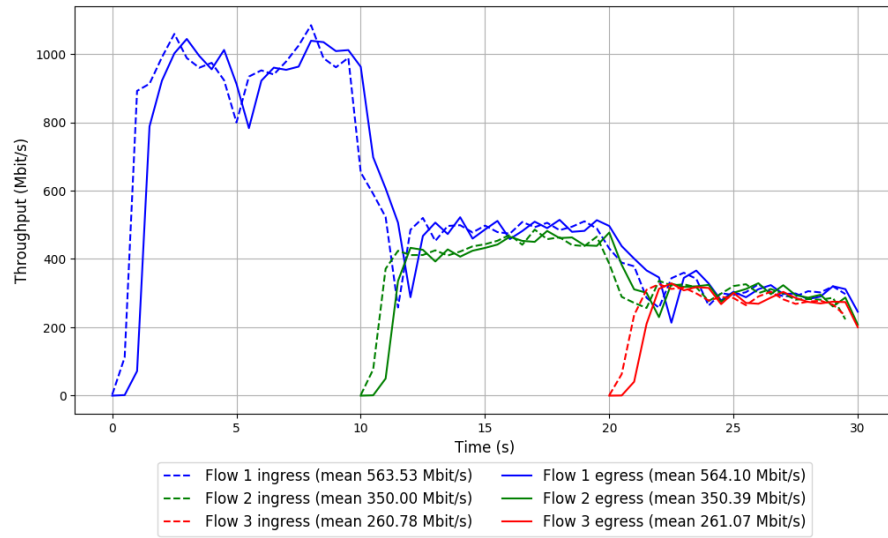


Run 1: Statistics of FillP-Sheep

Start at: 2018-11-30 18:31:58
End at: 2018-11-30 18:32:28
Local clock offset: -0.147 ms
Remote clock offset: -0.786 ms

Below is generated by plot.py at 2018-11-30 22:17:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 882.64 Mbit/s
95th percentile per-packet one-way delay: 68.341 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 564.10 Mbit/s
95th percentile per-packet one-way delay: 69.466 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 350.39 Mbit/s
95th percentile per-packet one-way delay: 65.662 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 261.07 Mbit/s
95th percentile per-packet one-way delay: 65.460 ms
Loss rate: 1.30%

Run 1: Report of FillP-Sheep — Data Link

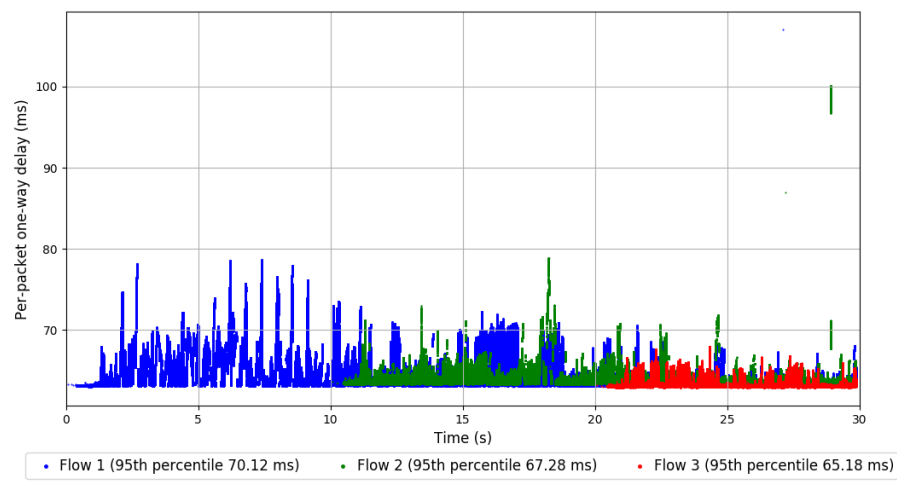
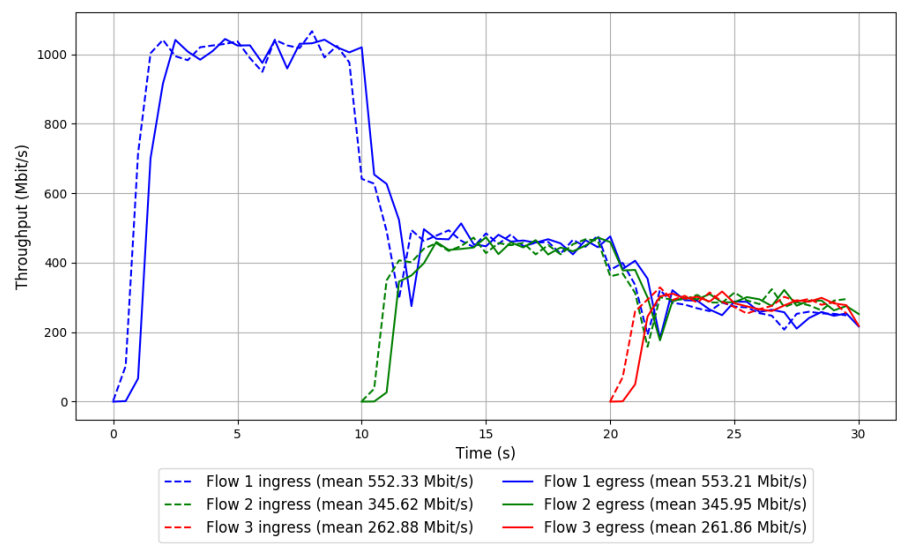


Run 2: Statistics of FillP-Sheep

Start at: 2018-11-30 19:05:18
End at: 2018-11-30 19:05:48
Local clock offset: -0.223 ms
Remote clock offset: -0.188 ms

Below is generated by plot.py at 2018-11-30 22:17:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 868.86 Mbit/s
95th percentile per-packet one-way delay: 69.515 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 553.21 Mbit/s
95th percentile per-packet one-way delay: 70.117 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 345.95 Mbit/s
95th percentile per-packet one-way delay: 67.276 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 261.86 Mbit/s
95th percentile per-packet one-way delay: 65.176 ms
Loss rate: 1.56%

Run 2: Report of FillP-Sheep — Data Link

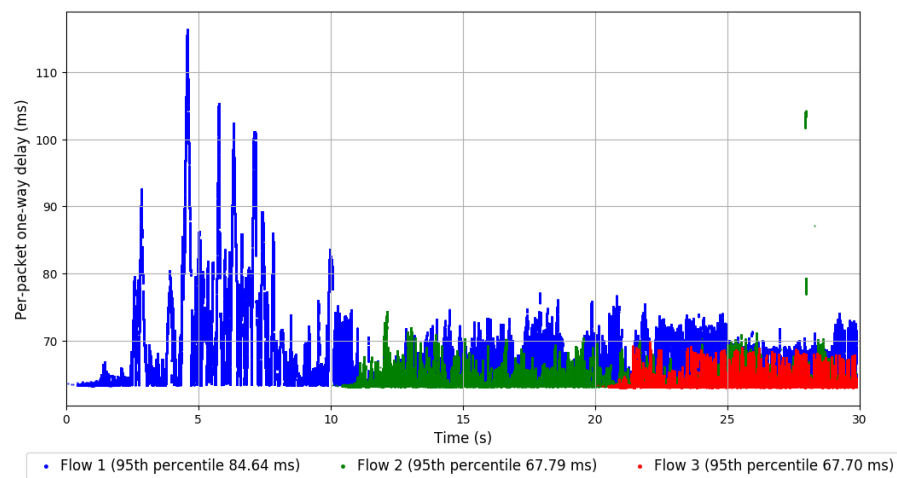
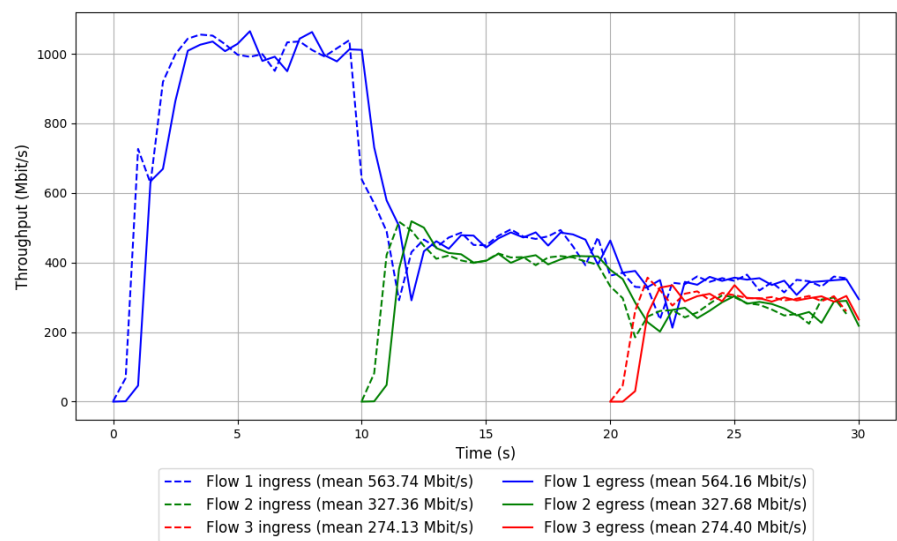


Run 3: Statistics of FillP-Sheep

Start at: 2018-11-30 19:38:42
End at: 2018-11-30 19:39:12
Local clock offset: -0.085 ms
Remote clock offset: -0.124 ms

Below is generated by plot.py at 2018-11-30 22:17:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 871.69 Mbit/s
95th percentile per-packet one-way delay: 81.200 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 564.16 Mbit/s
95th percentile per-packet one-way delay: 84.644 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 327.68 Mbit/s
95th percentile per-packet one-way delay: 67.789 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 274.40 Mbit/s
95th percentile per-packet one-way delay: 67.700 ms
Loss rate: 1.24%

Run 3: Report of FillP-Sheep — Data Link

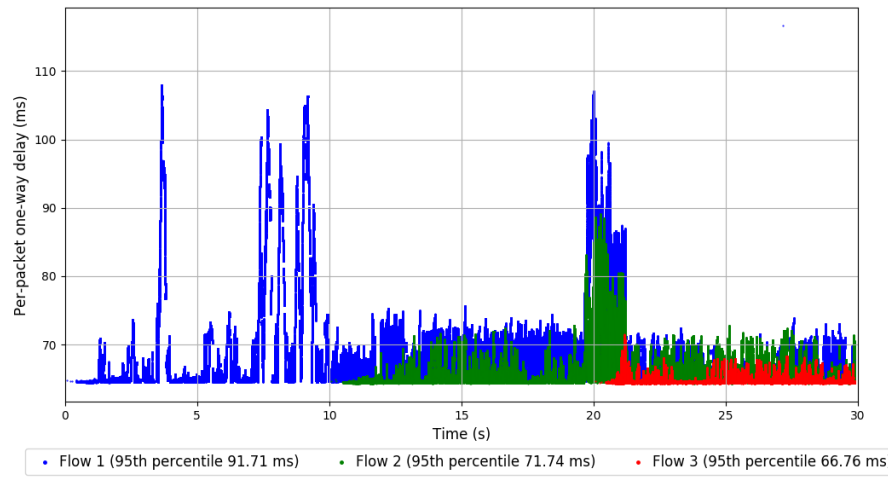
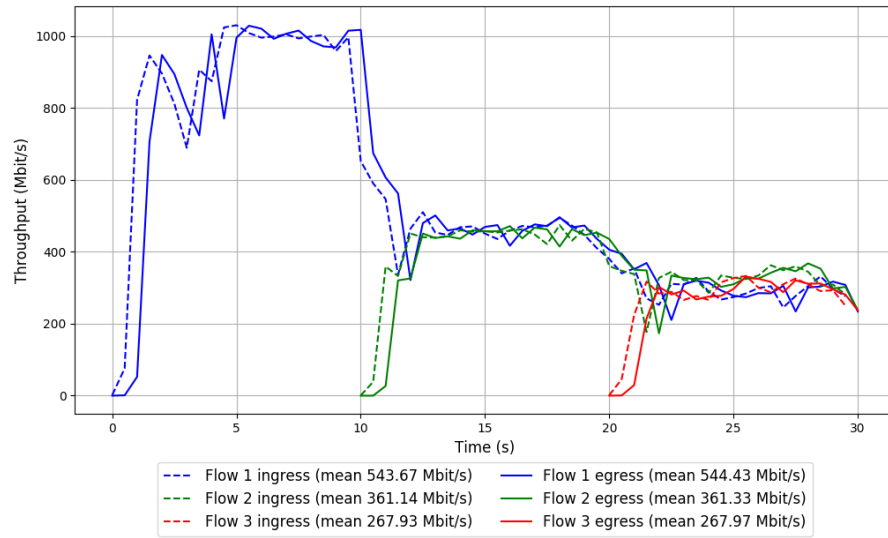


Run 4: Statistics of FillP-Sheep

Start at: 2018-11-30 20:12:23
End at: 2018-11-30 20:12:53
Local clock offset: 0.016 ms
Remote clock offset: -1.561 ms

Below is generated by plot.py at 2018-11-30 22:19:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 872.45 Mbit/s
95th percentile per-packet one-way delay: 84.217 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 544.43 Mbit/s
95th percentile per-packet one-way delay: 91.707 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 361.33 Mbit/s
95th percentile per-packet one-way delay: 71.743 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 267.97 Mbit/s
95th percentile per-packet one-way delay: 66.761 ms
Loss rate: 1.07%

Run 4: Report of FillP-Sheep — Data Link

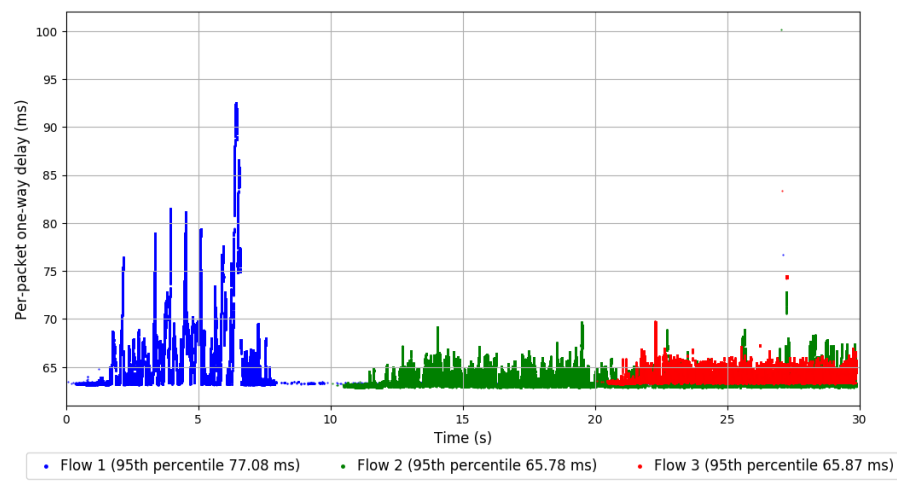
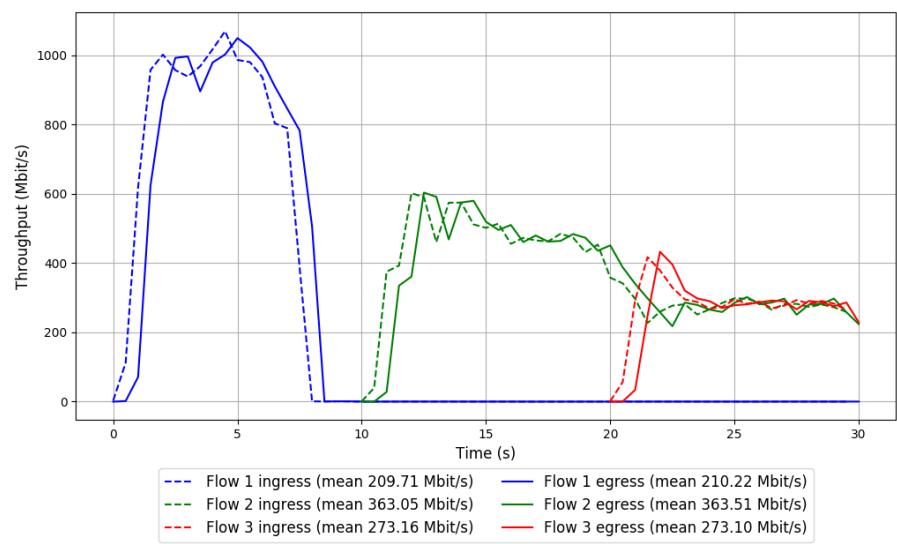


Run 5: Statistics of FillP-Sheep

Start at: 2018-11-30 20:46:04
End at: 2018-11-30 20:46:34
Local clock offset: 0.023 ms
Remote clock offset: -0.109 ms

Below is generated by plot.py at 2018-11-30 22:22:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 541.31 Mbit/s
95th percentile per-packet one-way delay: 71.313 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 210.22 Mbit/s
95th percentile per-packet one-way delay: 77.075 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 363.51 Mbit/s
95th percentile per-packet one-way delay: 65.781 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 273.10 Mbit/s
95th percentile per-packet one-way delay: 65.871 ms
Loss rate: 1.43%

Run 5: Report of FillP-Sheep — Data Link

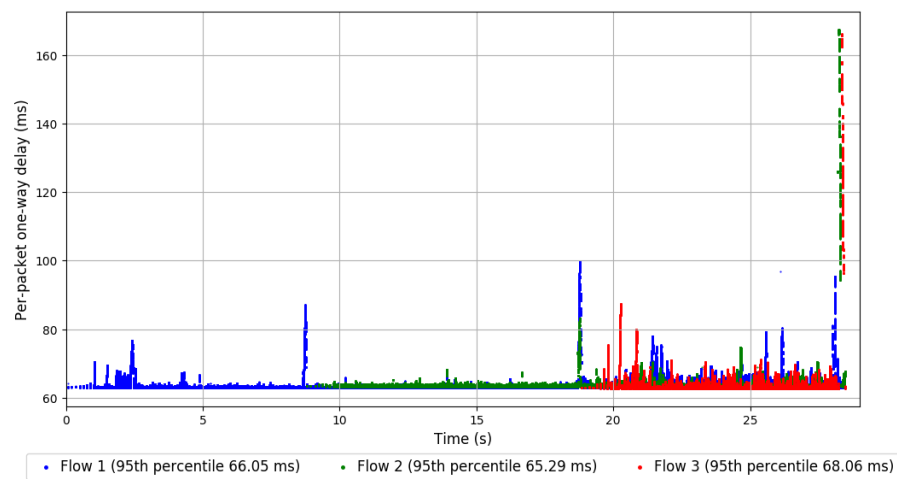
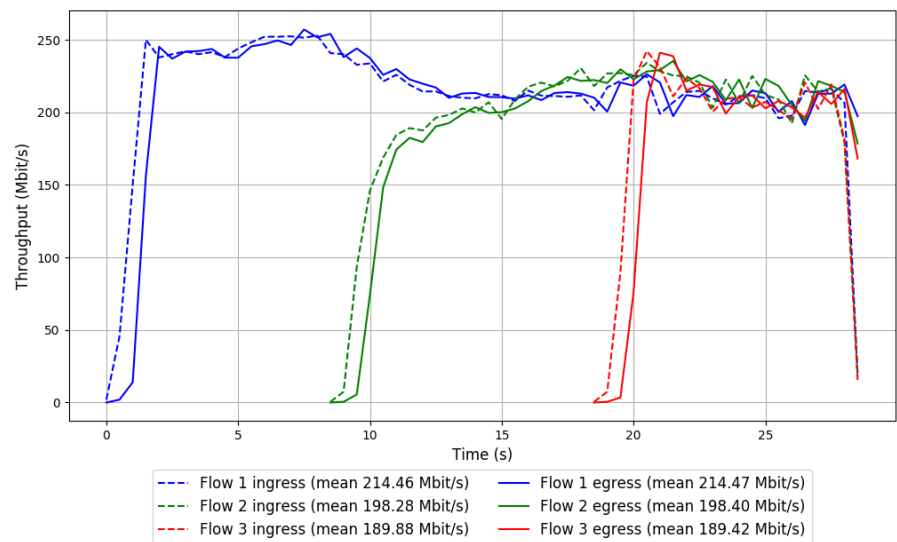


Run 1: Statistics of Indigo

Start at: 2018-11-30 18:16:04
End at: 2018-11-30 18:16:34
Local clock offset: -0.171 ms
Remote clock offset: -0.081 ms

Below is generated by plot.py at 2018-11-30 22:28:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 416.06 Mbit/s
95th percentile per-packet one-way delay: 66.084 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 214.47 Mbit/s
95th percentile per-packet one-way delay: 66.051 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 198.40 Mbit/s
95th percentile per-packet one-way delay: 65.292 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 189.42 Mbit/s
95th percentile per-packet one-way delay: 68.056 ms
Loss rate: 1.53%

Run 1: Report of Indigo — Data Link

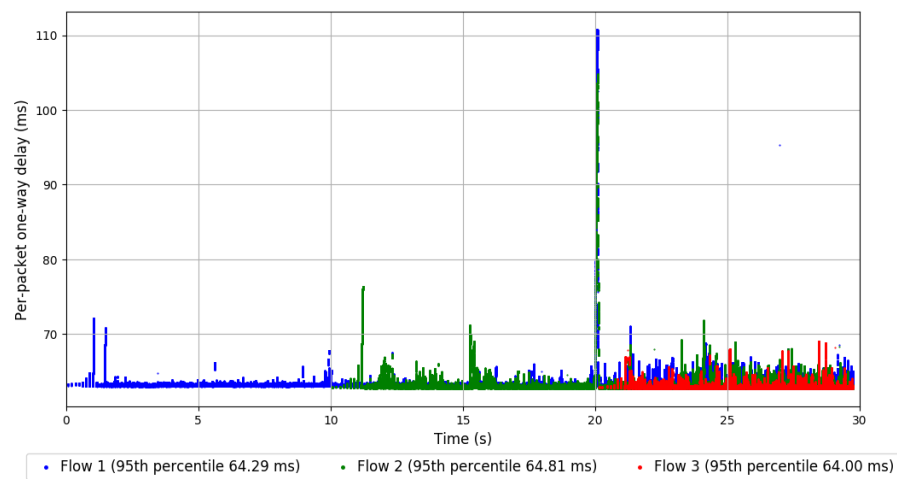
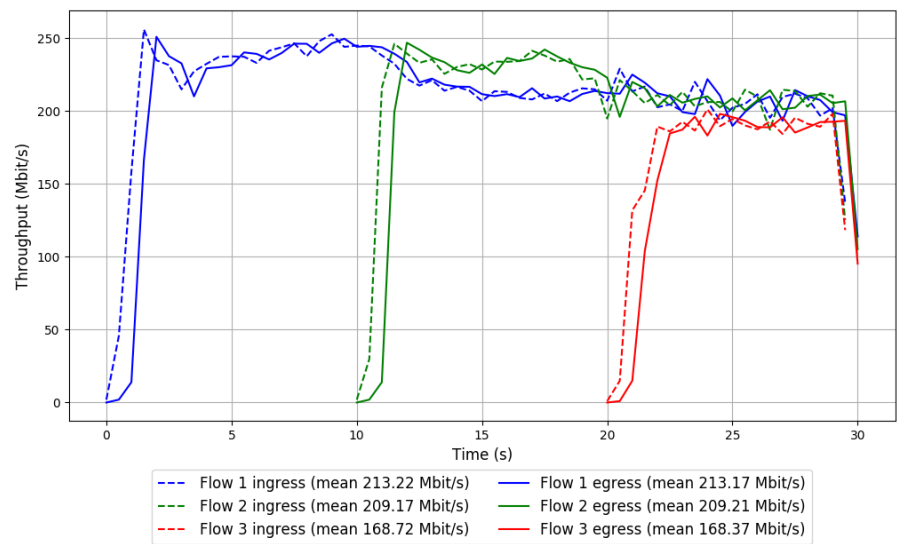


Run 2: Statistics of Indigo

Start at: 2018-11-30 18:49:31
End at: 2018-11-30 18:50:01
Local clock offset: -0.169 ms
Remote clock offset: -0.207 ms

Below is generated by plot.py at 2018-11-30 22:30:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 406.24 Mbit/s
95th percentile per-packet one-way delay: 64.430 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 213.17 Mbit/s
95th percentile per-packet one-way delay: 64.288 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 209.21 Mbit/s
95th percentile per-packet one-way delay: 64.813 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 168.37 Mbit/s
95th percentile per-packet one-way delay: 63.997 ms
Loss rate: 1.49%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-11-30 19:22:48

End at: 2018-11-30 19:23:18

Local clock offset: -0.085 ms

Remote clock offset: 0.08 ms

Below is generated by plot.py at 2018-11-30 22:31:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 414.45 Mbit/s

95th percentile per-packet one-way delay: 64.453 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 217.33 Mbit/s

95th percentile per-packet one-way delay: 64.273 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 205.78 Mbit/s

95th percentile per-packet one-way delay: 64.554 ms

Loss rate: 0.62%

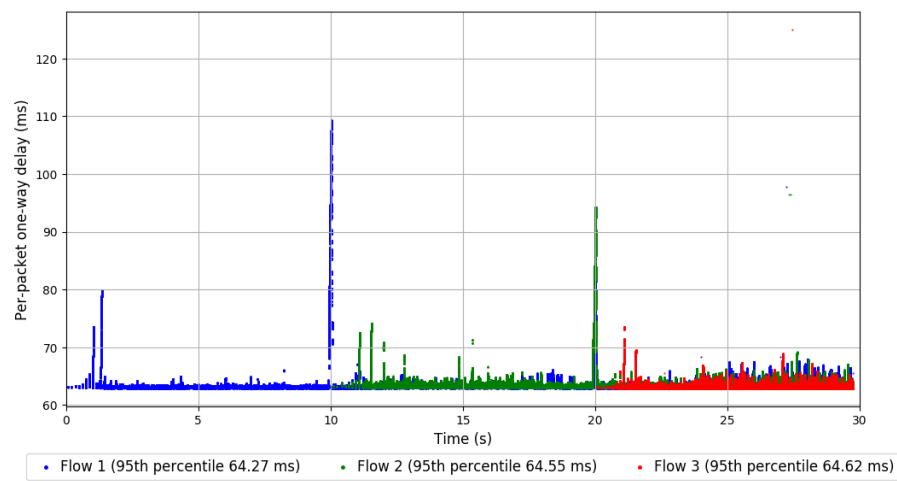
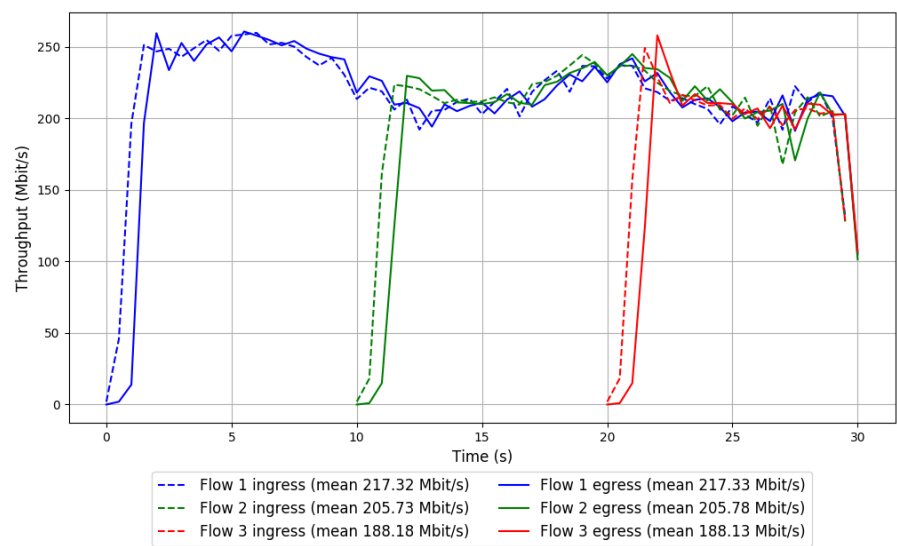
-- Flow 3:

Average throughput: 188.13 Mbit/s

95th percentile per-packet one-way delay: 64.624 ms

Loss rate: 1.31%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-11-30 19:56:26

End at: 2018-11-30 19:56:56

Local clock offset: -0.064 ms

Remote clock offset: 0.129 ms

Below is generated by plot.py at 2018-11-30 22:31:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 394.10 Mbit/s

95th percentile per-packet one-way delay: 65.364 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 218.97 Mbit/s

95th percentile per-packet one-way delay: 65.840 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 180.60 Mbit/s

95th percentile per-packet one-way delay: 65.186 ms

Loss rate: 0.73%

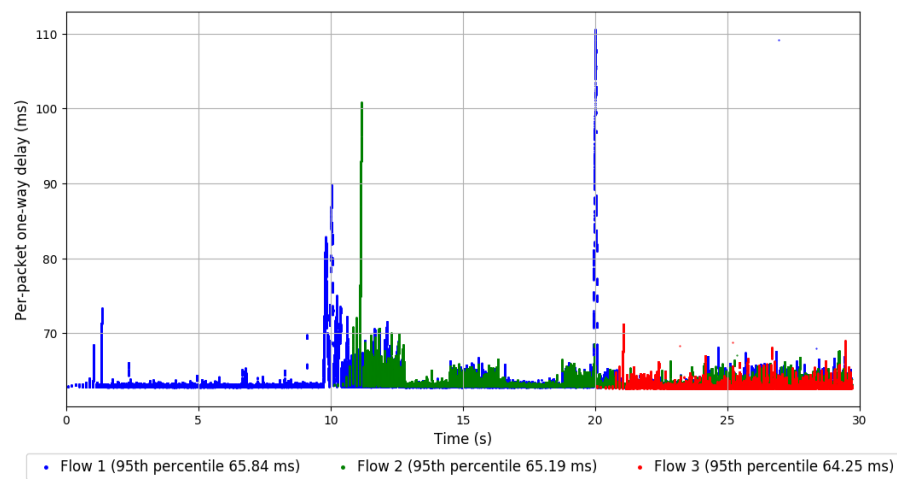
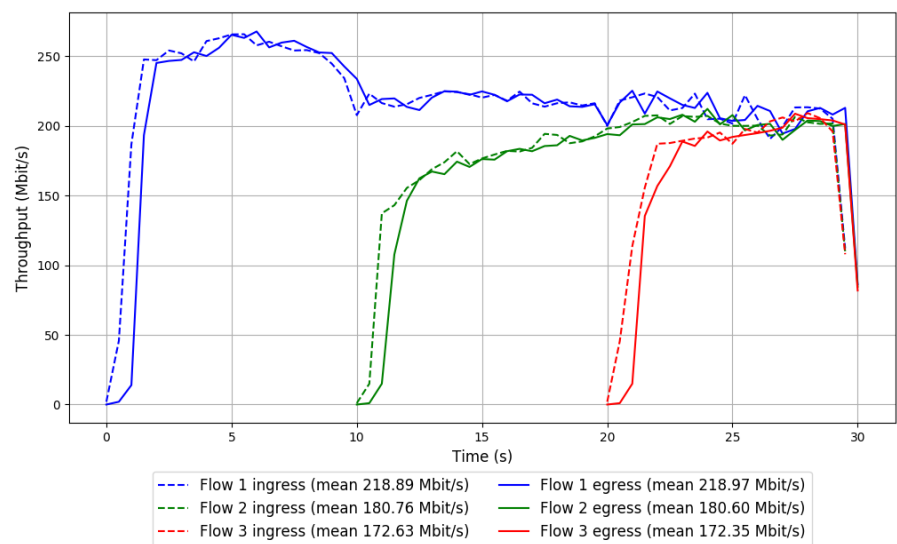
-- Flow 3:

Average throughput: 172.35 Mbit/s

95th percentile per-packet one-way delay: 64.248 ms

Loss rate: 1.47%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-11-30 20:30:06

End at: 2018-11-30 20:30:36

Local clock offset: -0.004 ms

Remote clock offset: 0.136 ms

Below is generated by plot.py at 2018-11-30 22:31:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 413.10 Mbit/s

95th percentile per-packet one-way delay: 64.998 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 216.84 Mbit/s

95th percentile per-packet one-way delay: 64.305 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 212.99 Mbit/s

95th percentile per-packet one-way delay: 65.425 ms

Loss rate: 0.63%

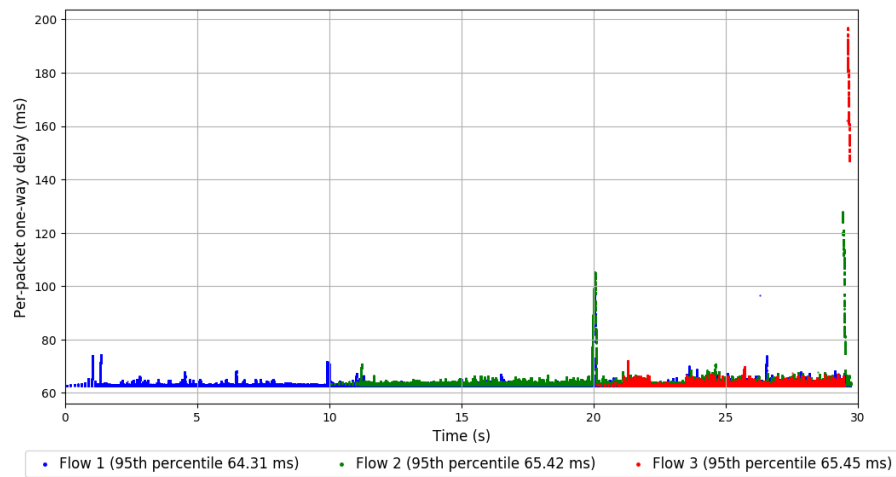
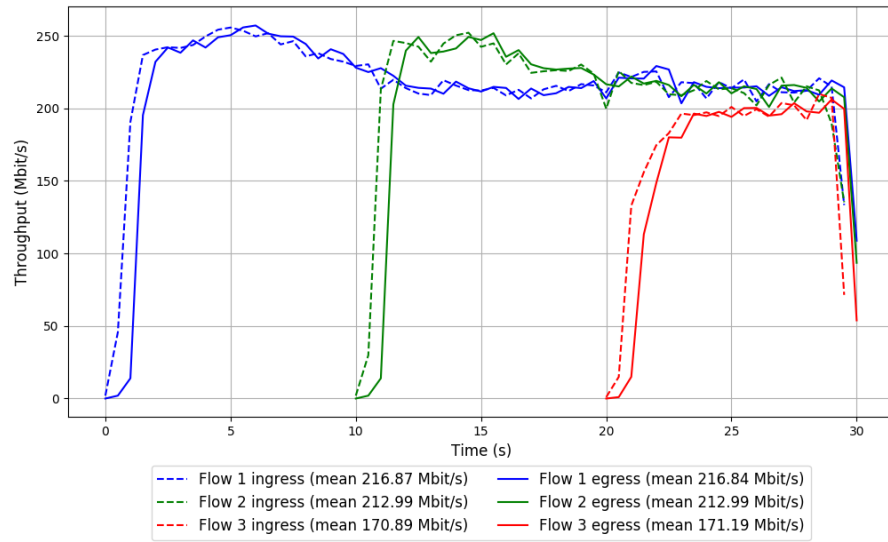
-- Flow 3:

Average throughput: 171.19 Mbit/s

95th percentile per-packet one-way delay: 65.452 ms

Loss rate: 1.56%

Run 5: Report of Indigo — Data Link

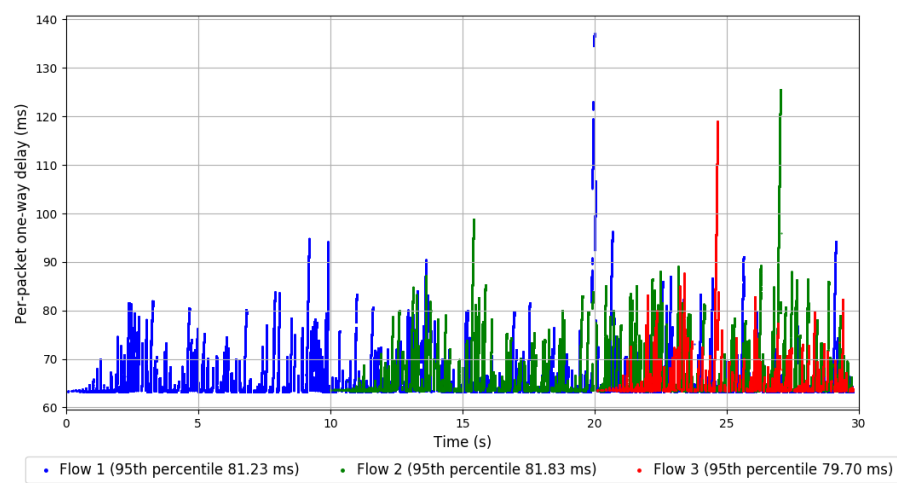
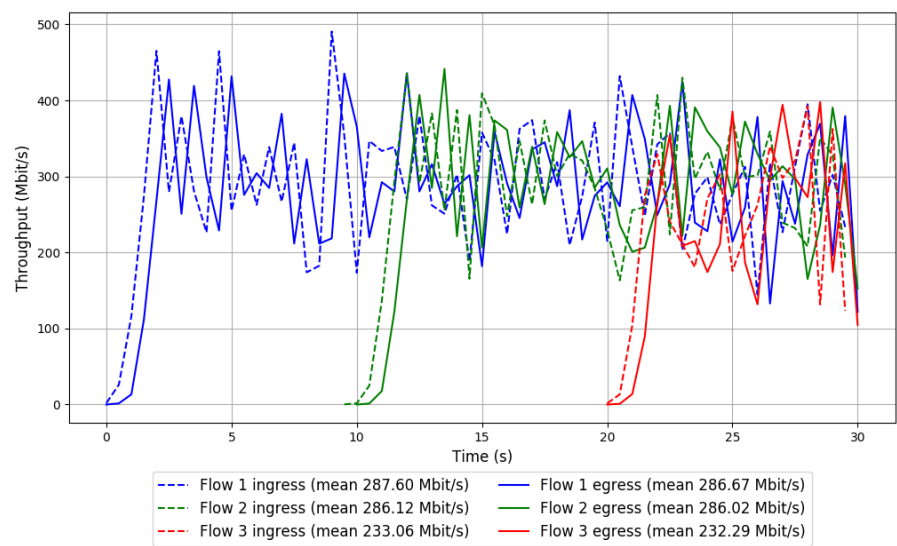


Run 1: Statistics of Indigo-96d2da3

Start at: 2018-11-30 18:23:15
End at: 2018-11-30 18:23:45
Local clock offset: -0.167 ms
Remote clock offset: -0.505 ms

Below is generated by plot.py at 2018-11-30 22:31:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 552.41 Mbit/s
95th percentile per-packet one-way delay: 81.278 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 286.67 Mbit/s
95th percentile per-packet one-way delay: 81.232 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 286.02 Mbit/s
95th percentile per-packet one-way delay: 81.826 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 232.29 Mbit/s
95th percentile per-packet one-way delay: 79.705 ms
Loss rate: 1.40%

Run 1: Report of Indigo-96d2da3 — Data Link

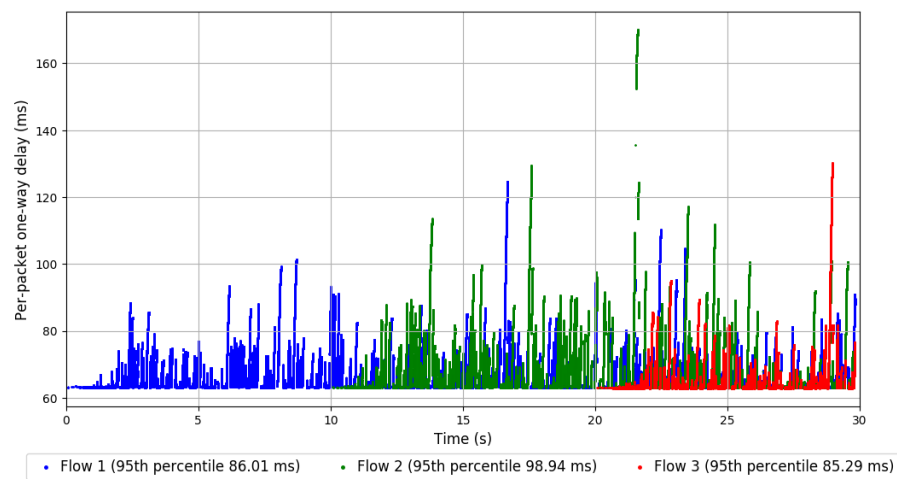
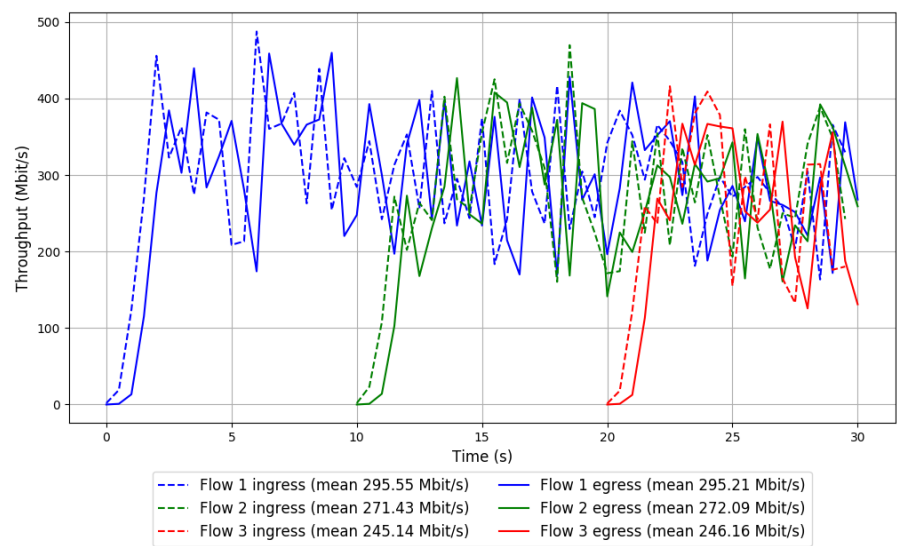


Run 2: Statistics of Indigo-96d2da3

Start at: 2018-11-30 18:56:41
End at: 2018-11-30 18:57:11
Local clock offset: -0.222 ms
Remote clock offset: -0.238 ms

Below is generated by plot.py at 2018-11-30 22:31:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 556.03 Mbit/s
95th percentile per-packet one-way delay: 91.218 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 295.21 Mbit/s
95th percentile per-packet one-way delay: 86.007 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 272.09 Mbit/s
95th percentile per-packet one-way delay: 98.938 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 246.16 Mbit/s
95th percentile per-packet one-way delay: 85.287 ms
Loss rate: 1.02%

Run 2: Report of Indigo-96d2da3 — Data Link

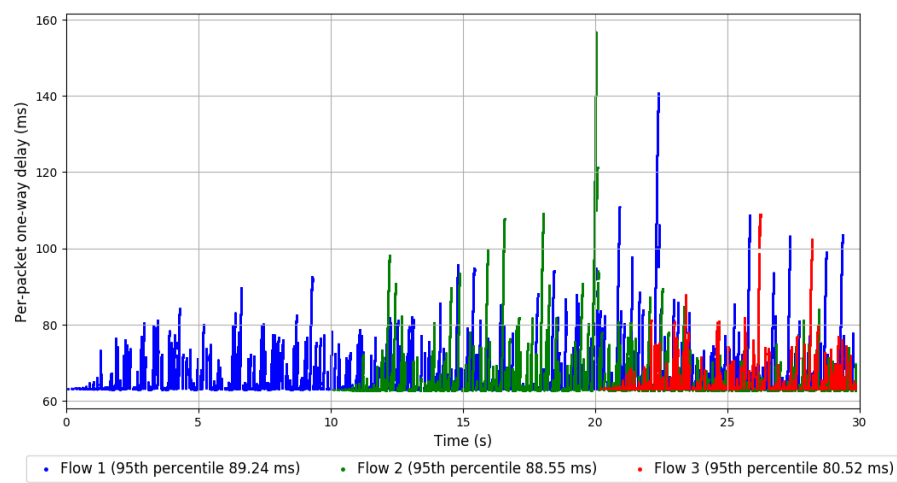
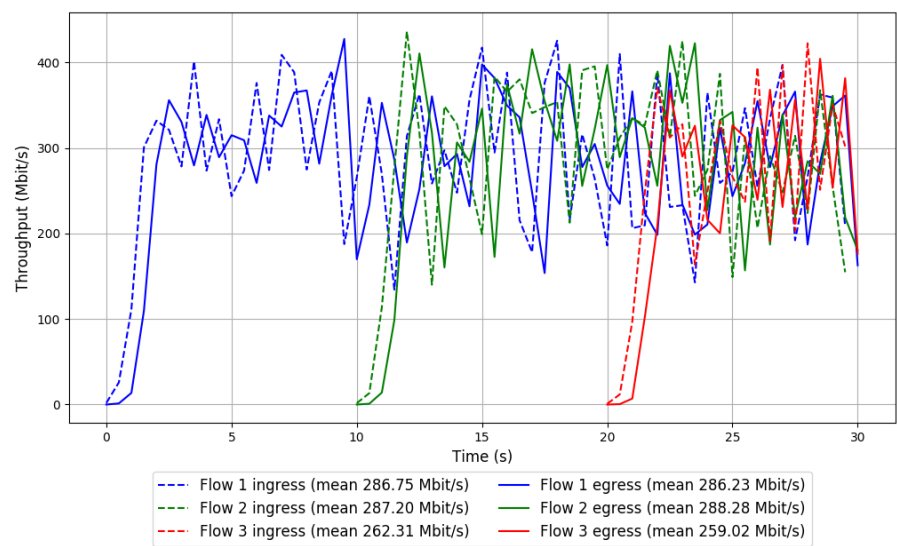


Run 3: Statistics of Indigo-96d2da3

Start at: 2018-11-30 19:29:59
End at: 2018-11-30 19:30:29
Local clock offset: -0.101 ms
Remote clock offset: -0.077 ms

Below is generated by plot.py at 2018-11-30 22:33:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 560.95 Mbit/s
95th percentile per-packet one-way delay: 88.275 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 286.23 Mbit/s
95th percentile per-packet one-way delay: 89.238 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 288.28 Mbit/s
95th percentile per-packet one-way delay: 88.546 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 259.02 Mbit/s
95th percentile per-packet one-way delay: 80.518 ms
Loss rate: 2.53%

Run 3: Report of Indigo-96d2da3 — Data Link

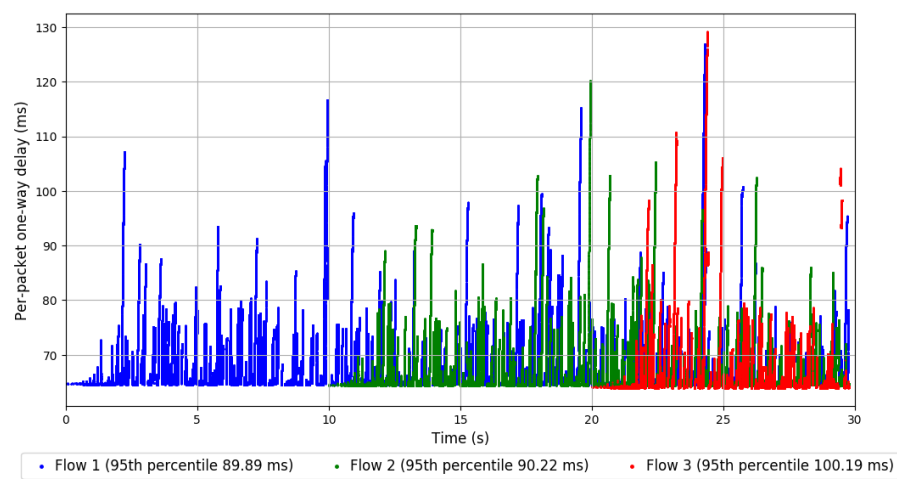
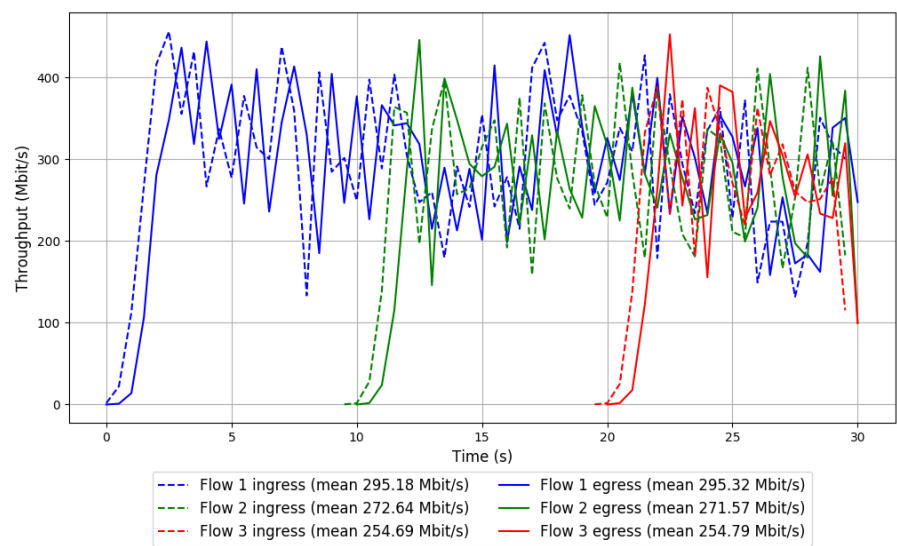


Run 4: Statistics of Indigo-96d2da3

Start at: 2018-11-30 20:03:39
End at: 2018-11-30 20:04:09
Local clock offset: 0.04 ms
Remote clock offset: -1.284 ms

Below is generated by plot.py at 2018-11-30 22:37:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 559.70 Mbit/s
95th percentile per-packet one-way delay: 92.116 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 295.32 Mbit/s
95th percentile per-packet one-way delay: 89.895 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 271.57 Mbit/s
95th percentile per-packet one-way delay: 90.224 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 254.79 Mbit/s
95th percentile per-packet one-way delay: 100.189 ms
Loss rate: 0.58%

Run 4: Report of Indigo-96d2da3 — Data Link

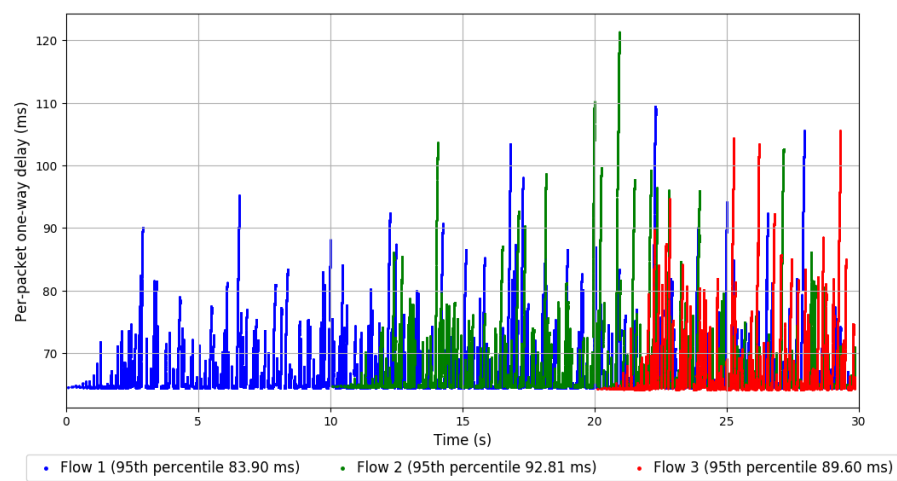
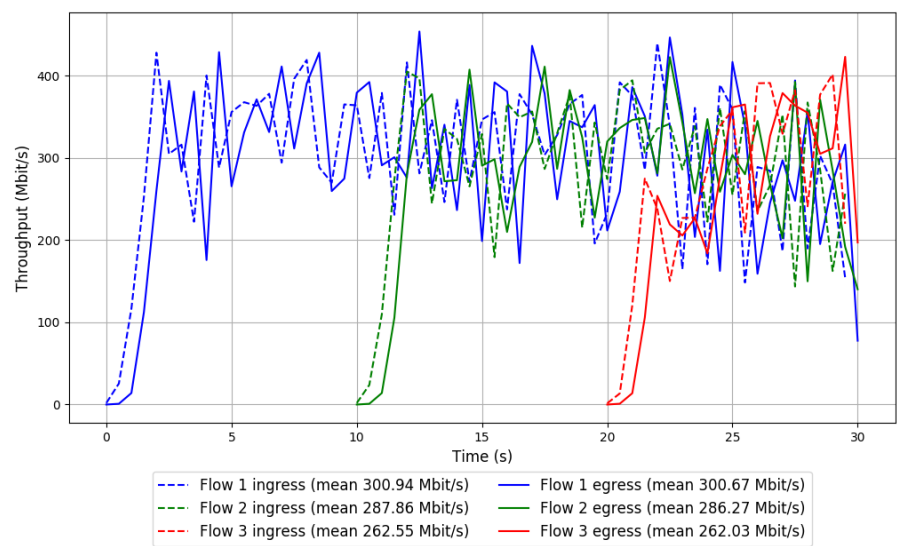


Run 5: Statistics of Indigo-96d2da3

Start at: 2018-11-30 20:37:22
End at: 2018-11-30 20:37:52
Local clock offset: 0.102 ms
Remote clock offset: -1.335 ms

Below is generated by plot.py at 2018-11-30 22:38:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 576.41 Mbit/s
95th percentile per-packet one-way delay: 87.567 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 300.67 Mbit/s
95th percentile per-packet one-way delay: 83.897 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 286.27 Mbit/s
95th percentile per-packet one-way delay: 92.810 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 262.03 Mbit/s
95th percentile per-packet one-way delay: 89.597 ms
Loss rate: 1.43%

Run 5: Report of Indigo-96d2da3 — Data Link

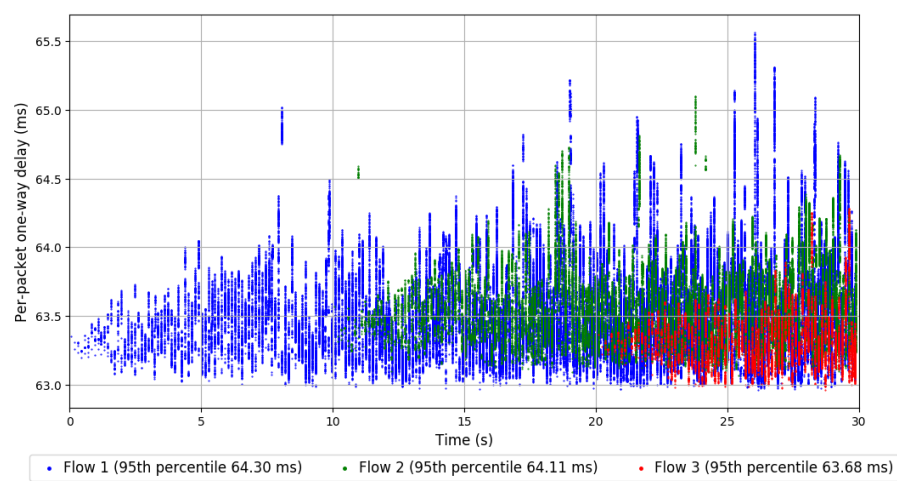
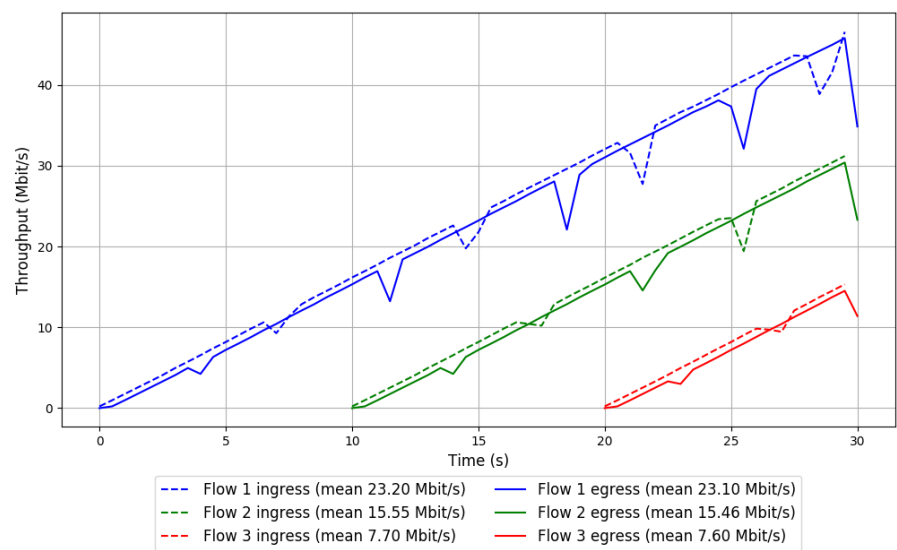


```
Run 1: Statistics of LEDBAT

Start at: 2018-11-30 18:47:03
End at: 2018-11-30 18:47:33
Local clock offset: -0.17 ms
Remote clock offset: -0.187 ms

# Below is generated by plot.py at 2018-11-30 22:38:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.82 Mbit/s
95th percentile per-packet one-way delay: 64.207 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 23.10 Mbit/s
95th percentile per-packet one-way delay: 64.304 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 15.46 Mbit/s
95th percentile per-packet one-way delay: 64.110 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 7.60 Mbit/s
95th percentile per-packet one-way delay: 63.677 ms
Loss rate: 2.57%
```

Run 1: Report of LEDBAT — Data Link

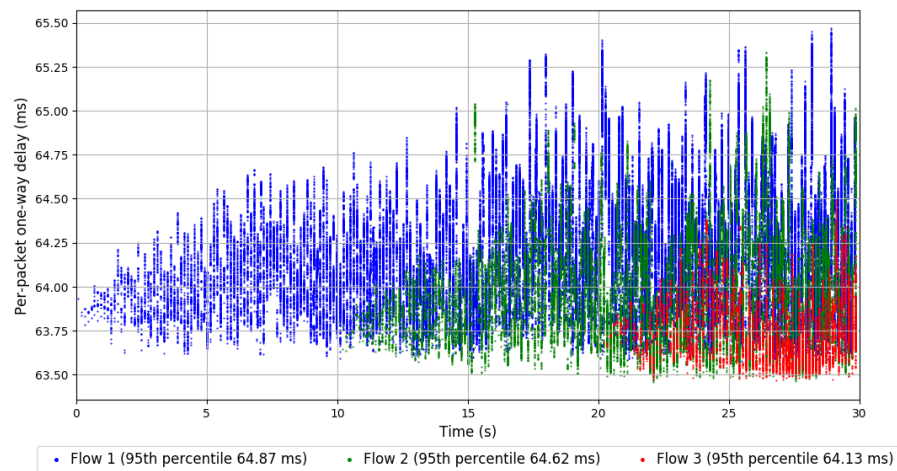
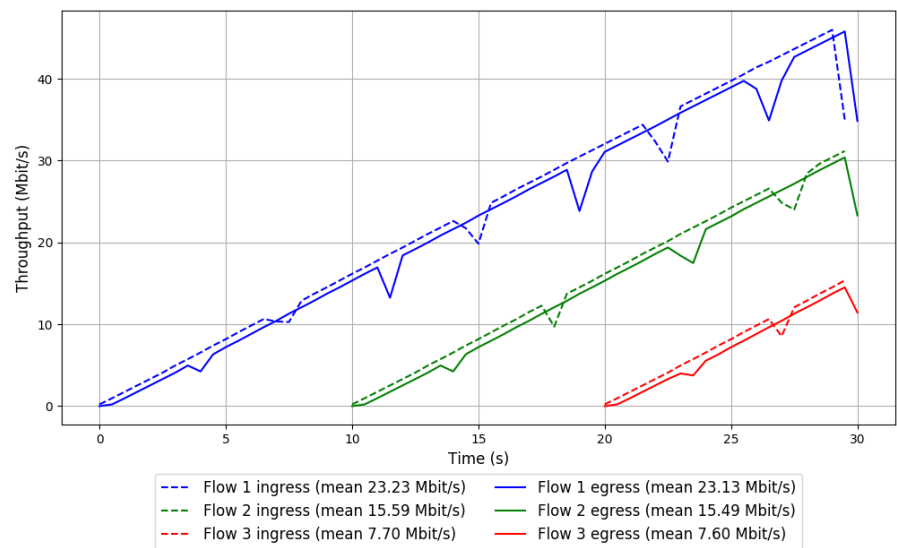


Run 2: Statistics of LEDBAT

Start at: 2018-11-30 19:20:20
End at: 2018-11-30 19:20:50
Local clock offset: -0.137 ms
Remote clock offset: -0.657 ms

Below is generated by plot.py at 2018-11-30 22:38:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 35.88 Mbit/s
95th percentile per-packet one-way delay: 64.819 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 23.13 Mbit/s
95th percentile per-packet one-way delay: 64.871 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 15.49 Mbit/s
95th percentile per-packet one-way delay: 64.618 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 7.60 Mbit/s
95th percentile per-packet one-way delay: 64.126 ms
Loss rate: 2.57%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-11-30 19:53:58

End at: 2018-11-30 19:54:28

Local clock offset: -0.003 ms

Remote clock offset: -1.19 ms

Below is generated by plot.py at 2018-11-30 22:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 35.88 Mbit/s

95th percentile per-packet one-way delay: 65.283 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 23.13 Mbit/s

95th percentile per-packet one-way delay: 65.273 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 15.45 Mbit/s

95th percentile per-packet one-way delay: 65.365 ms

Loss rate: 1.27%

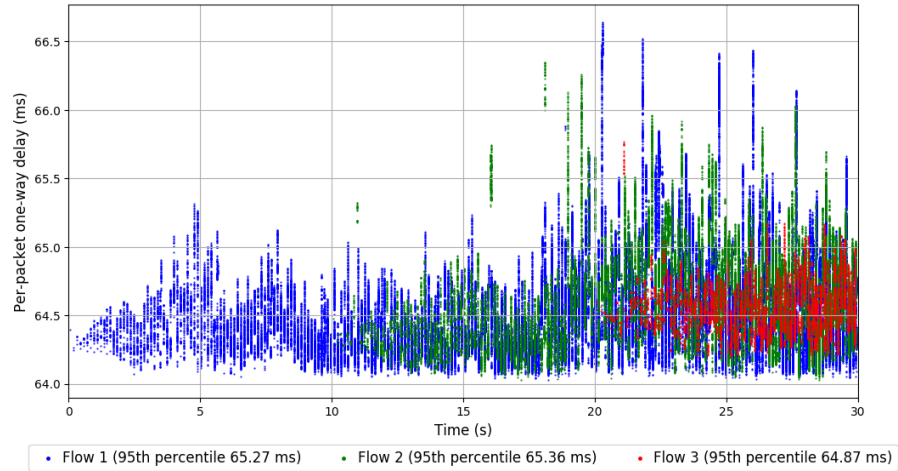
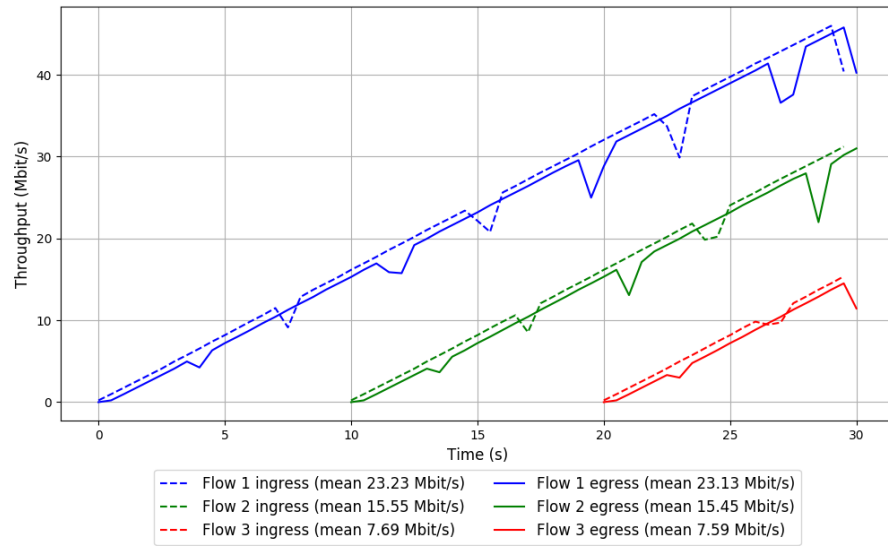
-- Flow 3:

Average throughput: 7.59 Mbit/s

95th percentile per-packet one-way delay: 64.871 ms

Loss rate: 2.57%

Run 3: Report of LEDBAT — Data Link

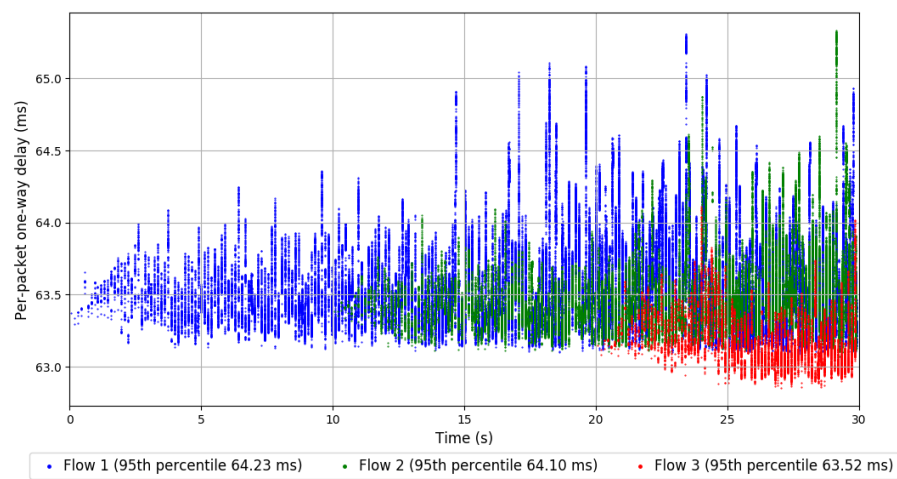
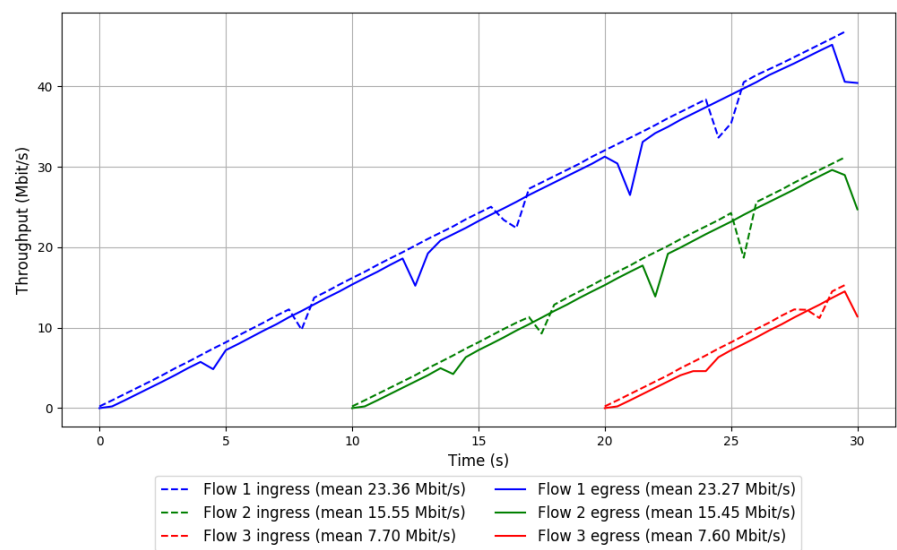


Run 4: Statistics of LEDBAT

Start at: 2018-11-30 20:27:37
End at: 2018-11-30 20:28:07
Local clock offset: 0.026 ms
Remote clock offset: -0.123 ms

Below is generated by plot.py at 2018-11-30 22:38:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 36.02 Mbit/s
95th percentile per-packet one-way delay: 64.181 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 23.27 Mbit/s
95th percentile per-packet one-way delay: 64.234 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 15.45 Mbit/s
95th percentile per-packet one-way delay: 64.100 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 7.60 Mbit/s
95th percentile per-packet one-way delay: 63.516 ms
Loss rate: 2.56%

Run 4: Report of LEDBAT — Data Link

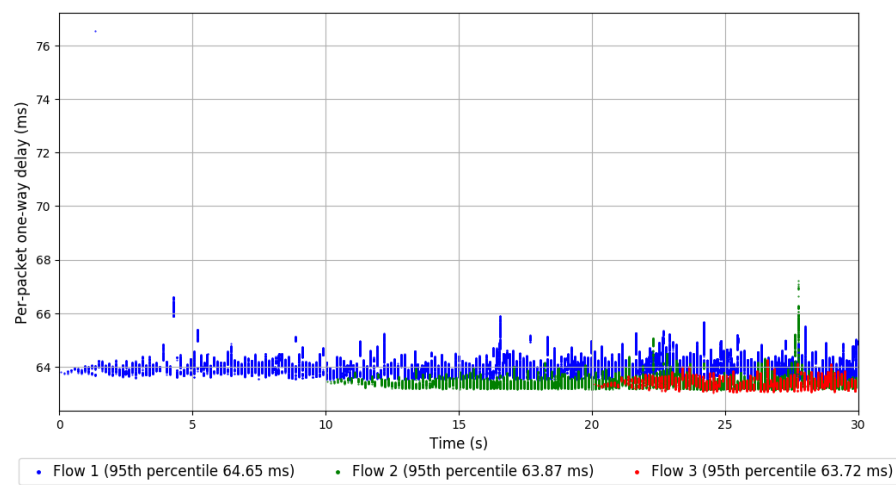
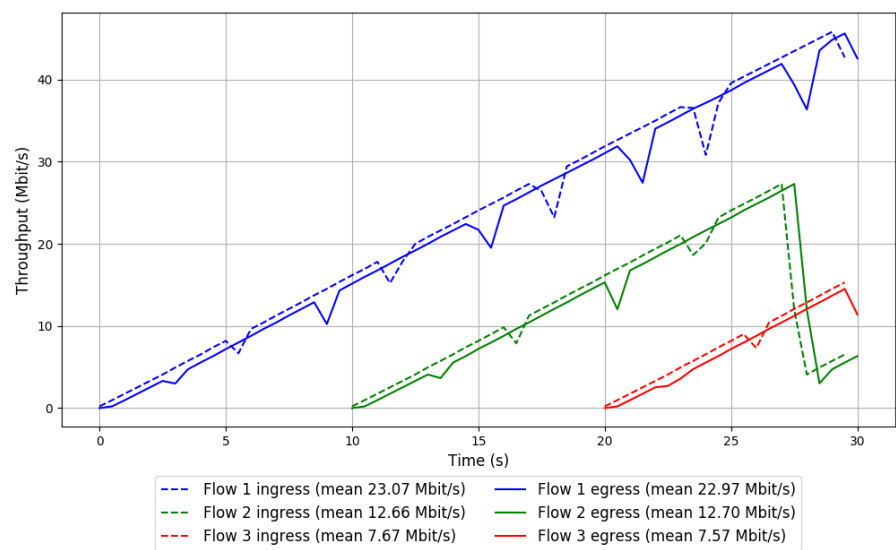


Run 5: Statistics of LEDBAT

Start at: 2018-11-30 21:00:24
End at: 2018-11-30 21:00:54
Local clock offset: 0.007 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2018-11-30 22:38:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 33.90 Mbit/s
95th percentile per-packet one-way delay: 64.532 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 22.97 Mbit/s
95th percentile per-packet one-way delay: 64.650 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 12.70 Mbit/s
95th percentile per-packet one-way delay: 63.872 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 7.57 Mbit/s
95th percentile per-packet one-way delay: 63.722 ms
Loss rate: 2.56%

Run 5: Report of LEDBAT — Data Link

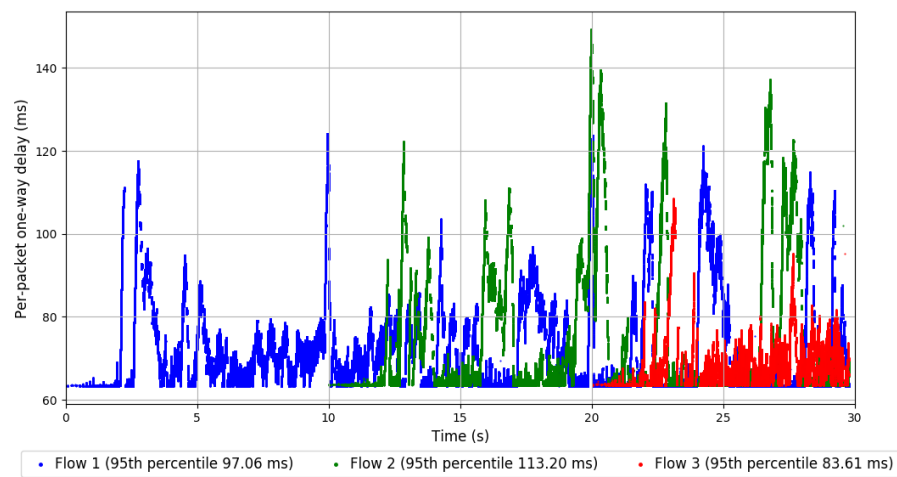
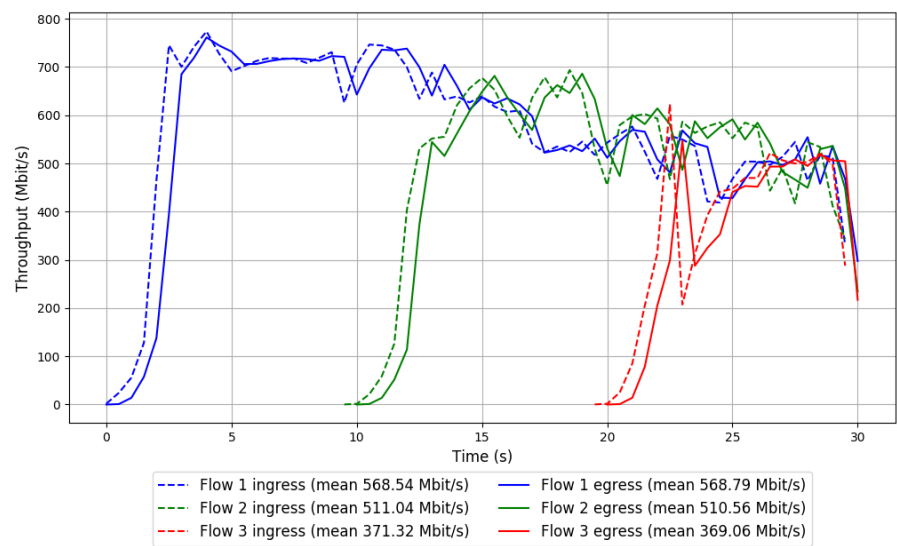


Run 1: Statistics of Indigo-Muses

Start at: 2018-11-30 18:21:10
End at: 2018-11-30 18:21:40
Local clock offset: -0.154 ms
Remote clock offset: -0.502 ms

Below is generated by plot.py at 2018-11-30 22:49:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 1029.43 Mbit/s
95th percentile per-packet one-way delay: 102.463 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 568.79 Mbit/s
95th percentile per-packet one-way delay: 97.064 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 510.56 Mbit/s
95th percentile per-packet one-way delay: 113.199 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 369.06 Mbit/s
95th percentile per-packet one-way delay: 83.605 ms
Loss rate: 1.93%

Run 1: Report of Indigo-Muses — Data Link

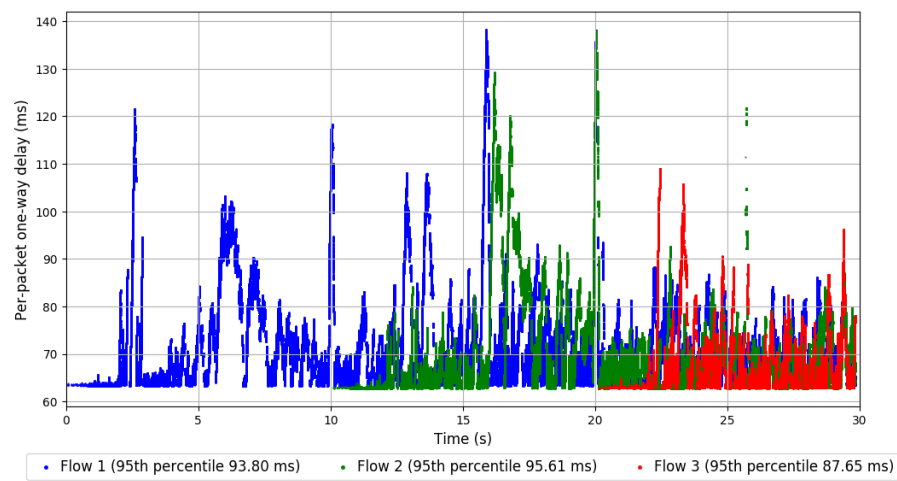
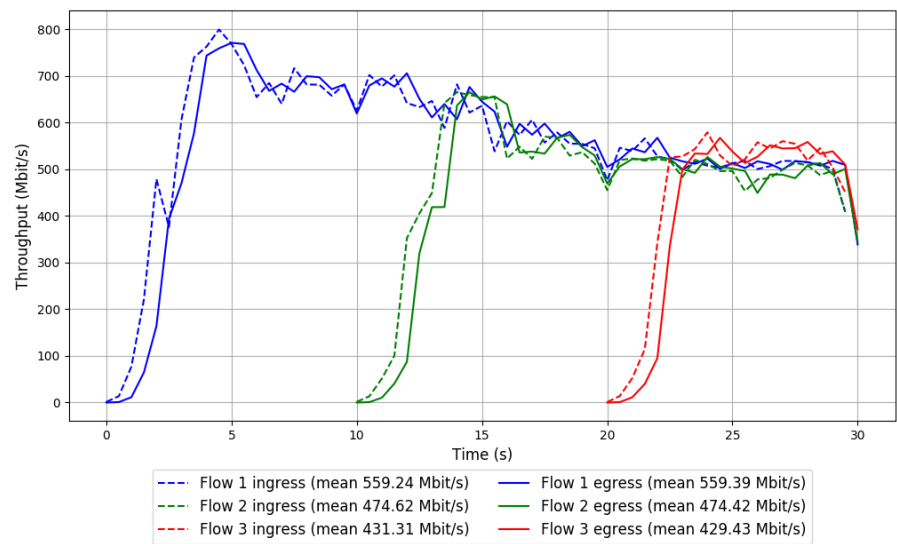


Run 2: Statistics of Indigo-Muses

Start at: 2018-11-30 18:54:37
End at: 2018-11-30 18:55:07
Local clock offset: -0.219 ms
Remote clock offset: -0.199 ms

Below is generated by plot.py at 2018-11-30 22:49:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 1013.90 Mbit/s
95th percentile per-packet one-way delay: 93.387 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 559.39 Mbit/s
95th percentile per-packet one-way delay: 93.804 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 474.42 Mbit/s
95th percentile per-packet one-way delay: 95.612 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 429.43 Mbit/s
95th percentile per-packet one-way delay: 87.646 ms
Loss rate: 1.73%

Run 2: Report of Indigo-Muses — Data Link

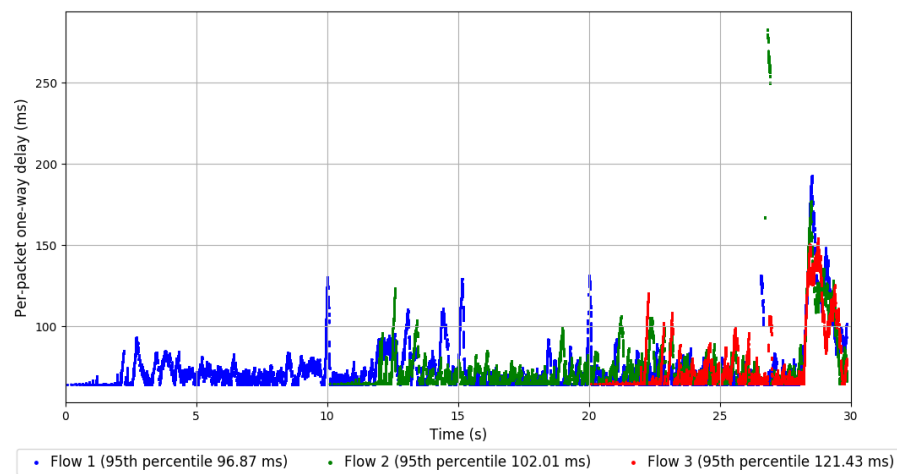
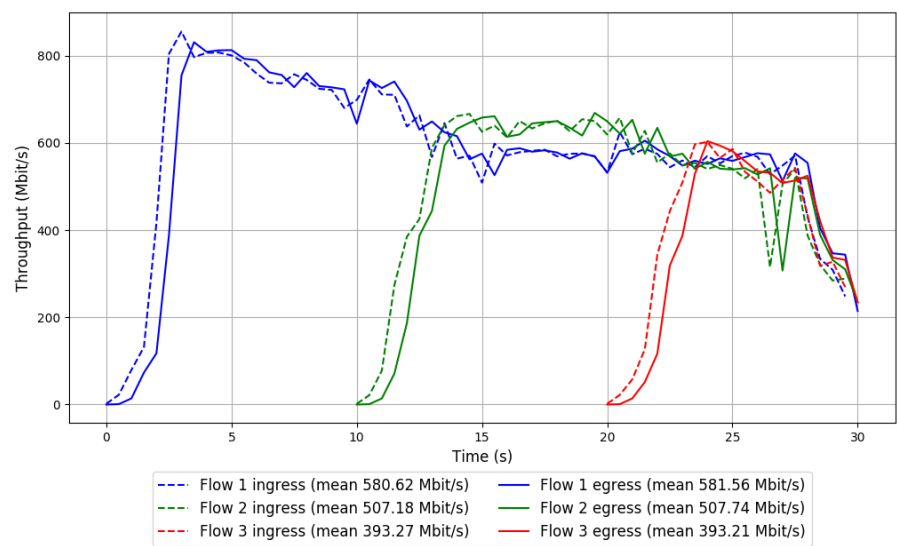


Run 3: Statistics of Indigo-Muses

Start at: 2018-11-30 19:27:53
End at: 2018-11-30 19:28:23
Local clock offset: -0.066 ms
Remote clock offset: -1.271 ms

```
# Below is generated by plot.py at 2018-11-30 22:50:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1047.42 Mbit/s
95th percentile per-packet one-way delay: 104.542 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 581.56 Mbit/s
95th percentile per-packet one-way delay: 96.869 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 507.74 Mbit/s
95th percentile per-packet one-way delay: 102.006 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 393.21 Mbit/s
95th percentile per-packet one-way delay: 121.427 ms
Loss rate: 1.30%
```

Run 3: Report of Indigo-Muses — Data Link

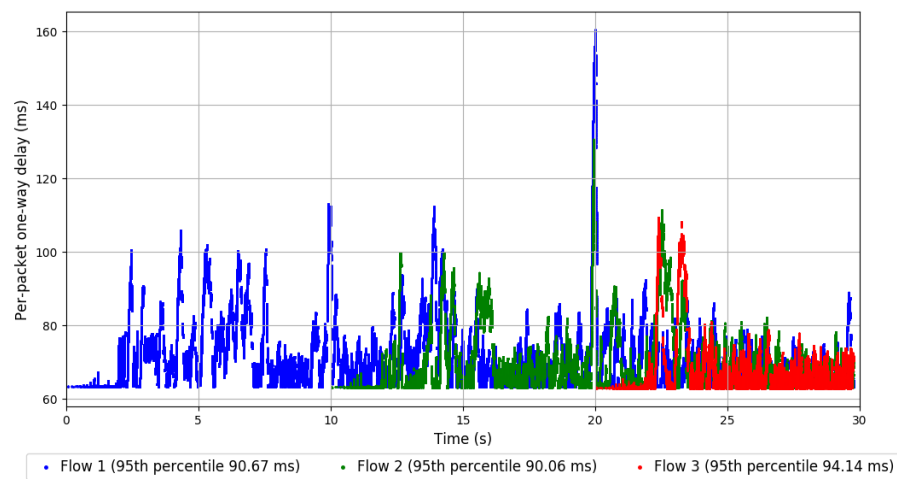
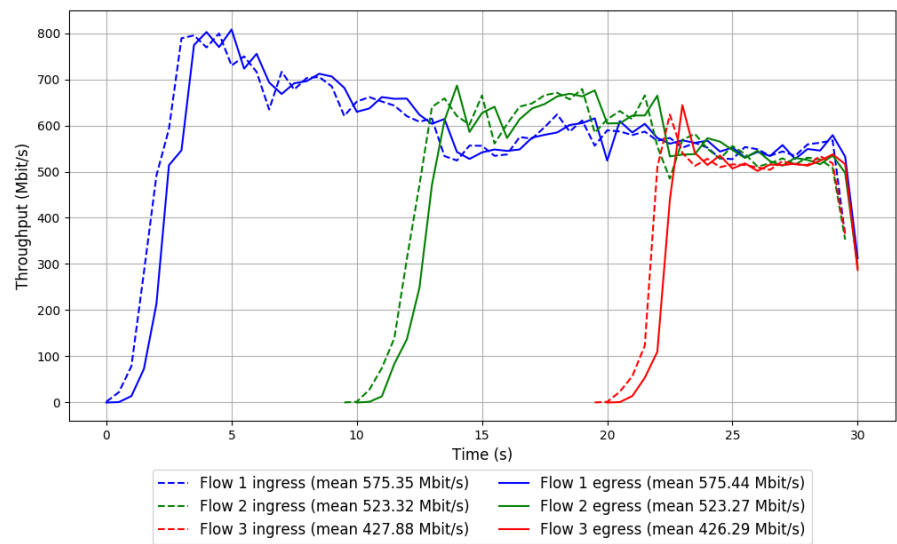


Run 4: Statistics of Indigo-Muses

Start at: 2018-11-30 20:01:32
End at: 2018-11-30 20:02:02
Local clock offset: -0.055 ms
Remote clock offset: -0.282 ms

Below is generated by plot.py at 2018-11-30 22:51:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 1062.79 Mbit/s
95th percentile per-packet one-way delay: 90.630 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 575.44 Mbit/s
95th percentile per-packet one-way delay: 90.672 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 523.27 Mbit/s
95th percentile per-packet one-way delay: 90.061 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 426.29 Mbit/s
95th percentile per-packet one-way delay: 94.139 ms
Loss rate: 1.66%

Run 4: Report of Indigo-Muses — Data Link

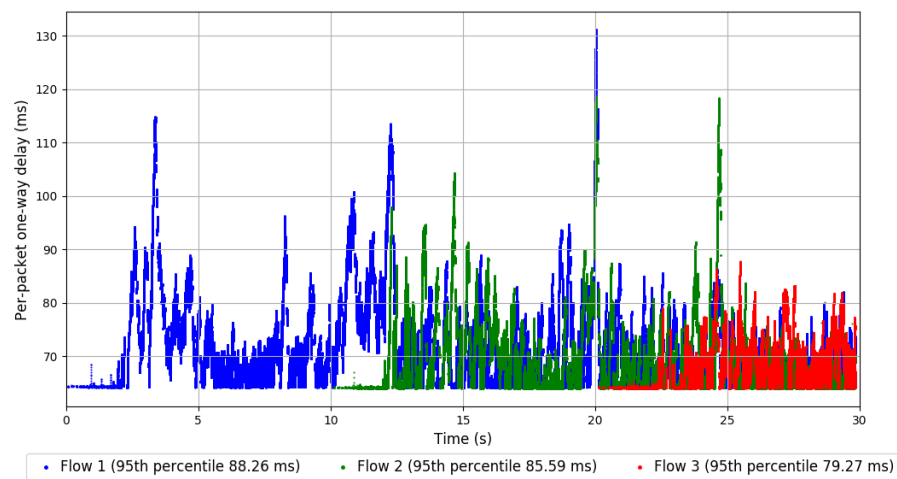
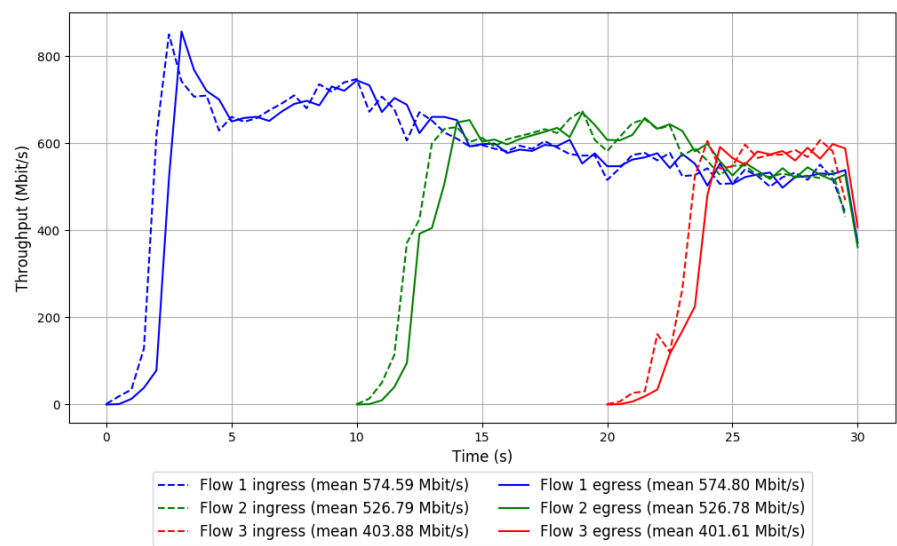


Run 5: Statistics of Indigo-Muses

Start at: 2018-11-30 20:35:16
End at: 2018-11-30 20:35:46
Local clock offset: -0.017 ms
Remote clock offset: -1.248 ms

Below is generated by plot.py at 2018-11-30 22:51:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 1054.72 Mbit/s
95th percentile per-packet one-way delay: 86.545 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 574.80 Mbit/s
95th percentile per-packet one-way delay: 88.263 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 526.78 Mbit/s
95th percentile per-packet one-way delay: 85.593 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 401.61 Mbit/s
95th percentile per-packet one-way delay: 79.265 ms
Loss rate: 1.84%

Run 5: Report of Indigo-Muses — Data Link

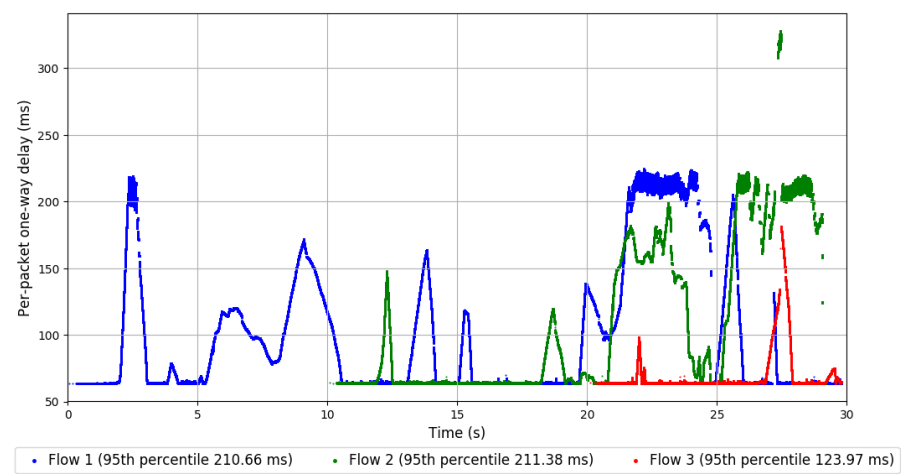
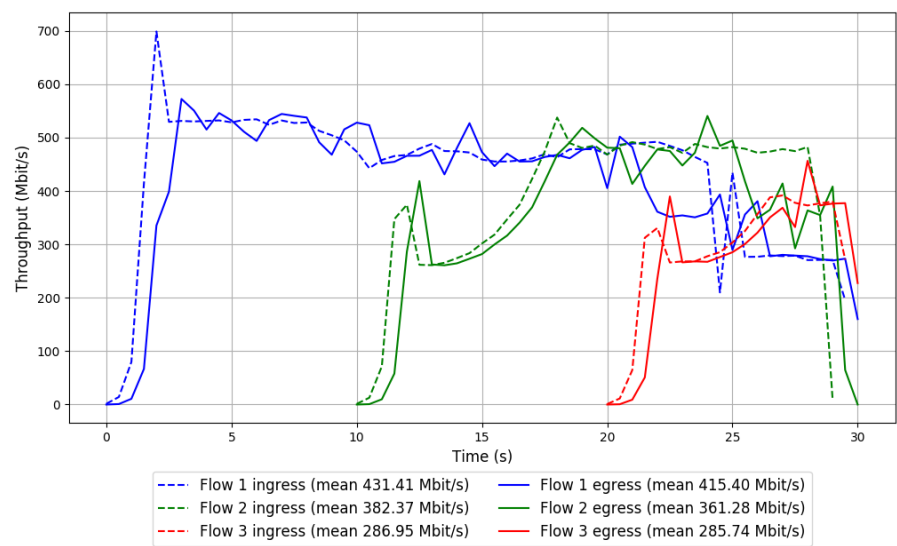


Run 1: Statistics of PCC-Allegro

Start at: 2018-11-30 18:24:57
End at: 2018-11-30 18:25:27
Local clock offset: -0.181 ms
Remote clock offset: -0.784 ms

Below is generated by plot.py at 2018-11-30 22:59:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 745.20 Mbit/s
95th percentile per-packet one-way delay: 209.896 ms
Loss rate: 4.30%
-- Flow 1:
Average throughput: 415.40 Mbit/s
95th percentile per-packet one-way delay: 210.663 ms
Loss rate: 4.17%
-- Flow 2:
Average throughput: 361.28 Mbit/s
95th percentile per-packet one-way delay: 211.381 ms
Loss rate: 5.52%
-- Flow 3:
Average throughput: 285.74 Mbit/s
95th percentile per-packet one-way delay: 123.975 ms
Loss rate: 1.71%

Run 1: Report of PCC-Allegro — Data Link

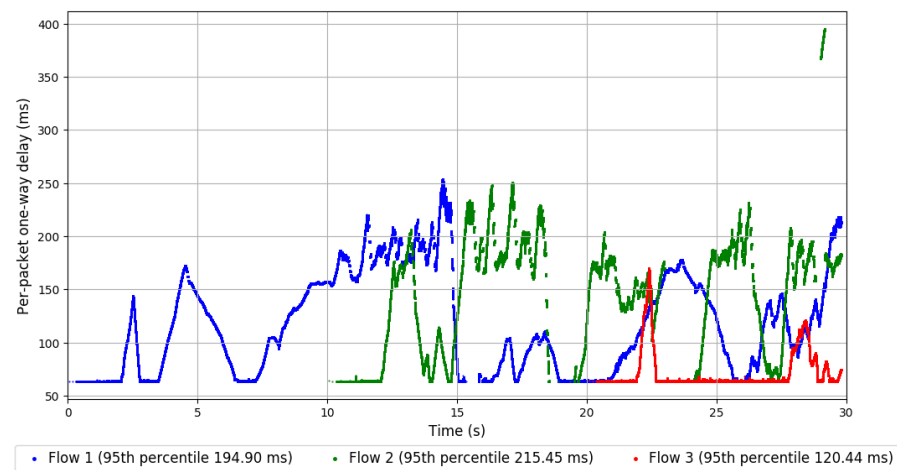
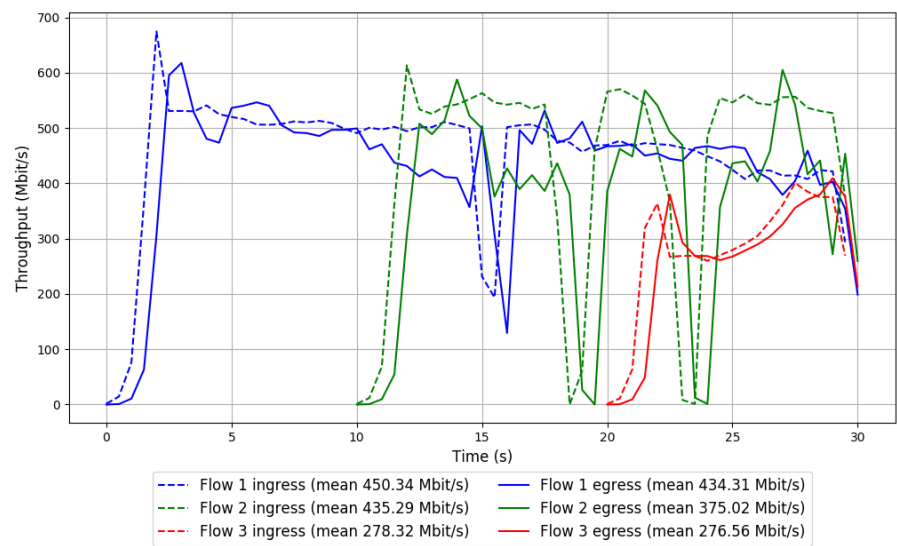


Run 2: Statistics of PCC-Allegro

Start at: 2018-11-30 18:58:22
End at: 2018-11-30 18:58:52
Local clock offset: -0.183 ms
Remote clock offset: -0.923 ms

Below is generated by plot.py at 2018-11-30 23:05:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 773.18 Mbit/s
95th percentile per-packet one-way delay: 201.389 ms
Loss rate: 7.37%
-- Flow 1:
Average throughput: 434.31 Mbit/s
95th percentile per-packet one-way delay: 194.903 ms
Loss rate: 3.97%
-- Flow 2:
Average throughput: 375.02 Mbit/s
95th percentile per-packet one-way delay: 215.454 ms
Loss rate: 14.40%
-- Flow 3:
Average throughput: 276.56 Mbit/s
95th percentile per-packet one-way delay: 120.440 ms
Loss rate: 1.92%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-11-30 19:31:41

End at: 2018-11-30 19:32:11

Local clock offset: -0.074 ms

Remote clock offset: 0.057 ms

Below is generated by plot.py at 2018-11-30 23:09:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 840.89 Mbit/s

95th percentile per-packet one-way delay: 180.107 ms

Loss rate: 5.15%

-- Flow 1:

Average throughput: 458.26 Mbit/s

95th percentile per-packet one-way delay: 178.902 ms

Loss rate: 3.94%

-- Flow 2:

Average throughput: 447.13 Mbit/s

95th percentile per-packet one-way delay: 181.119 ms

Loss rate: 7.69%

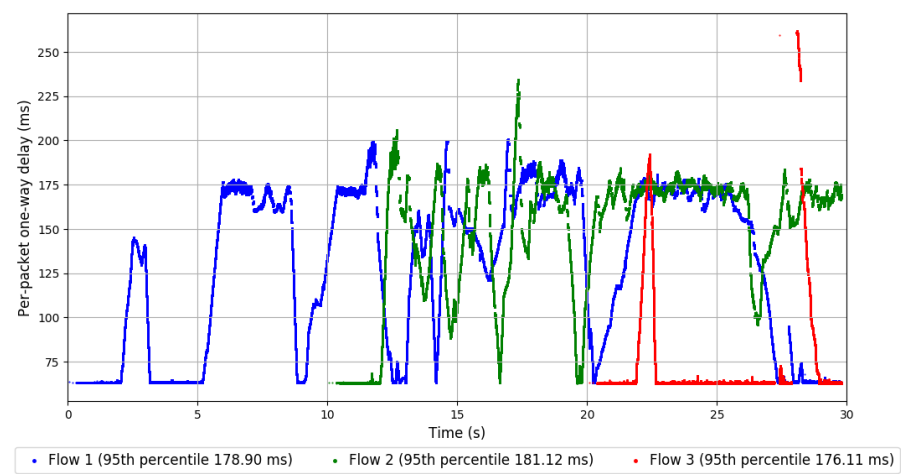
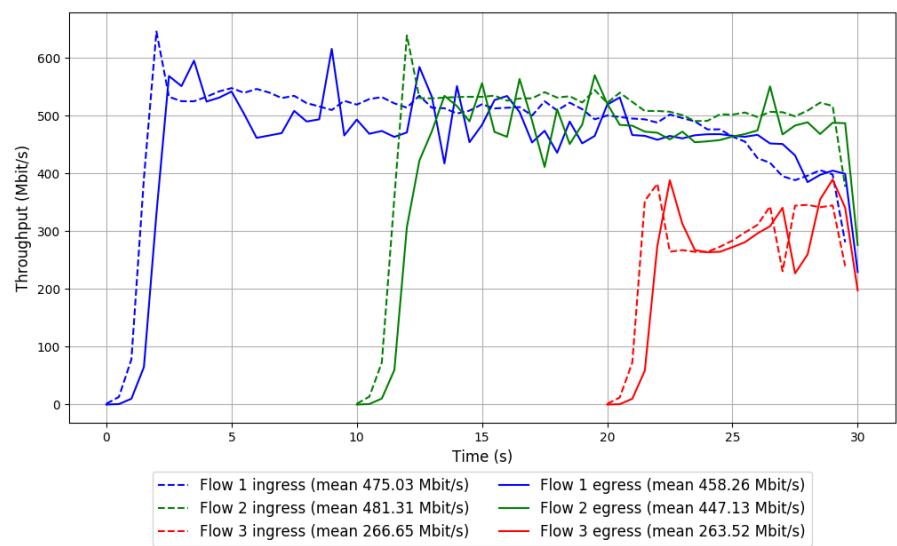
-- Flow 3:

Average throughput: 263.52 Mbit/s

95th percentile per-packet one-way delay: 176.109 ms

Loss rate: 2.45%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-11-30 20:05:21

End at: 2018-11-30 20:05:51

Local clock offset: -0.056 ms

Remote clock offset: 0.222 ms

Below is generated by plot.py at 2018-11-30 23:17:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 757.48 Mbit/s

95th percentile per-packet one-way delay: 176.631 ms

Loss rate: 4.00%

-- Flow 1:

Average throughput: 463.31 Mbit/s

95th percentile per-packet one-way delay: 177.710 ms

Loss rate: 5.82%

-- Flow 2:

Average throughput: 324.12 Mbit/s

95th percentile per-packet one-way delay: 154.046 ms

Loss rate: 0.75%

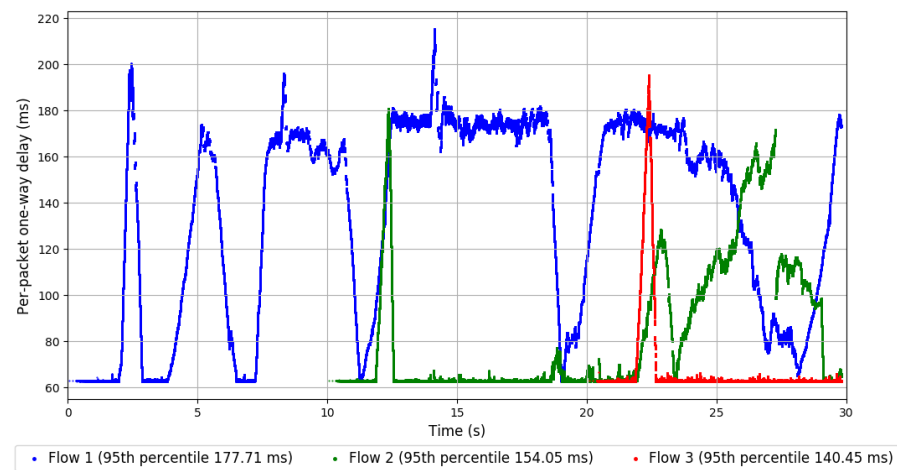
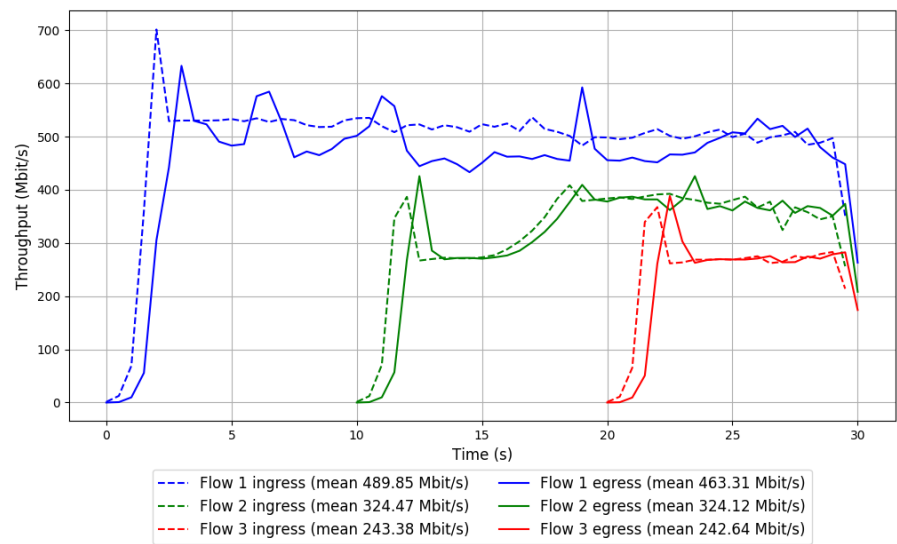
-- Flow 3:

Average throughput: 242.64 Mbit/s

95th percentile per-packet one-way delay: 140.448 ms

Loss rate: 1.59%

Run 4: Report of PCC-Allegro — Data Link

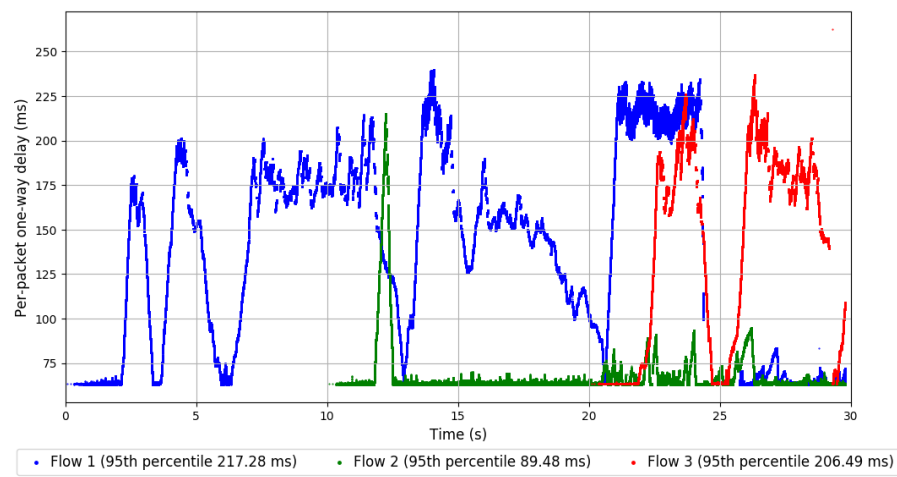
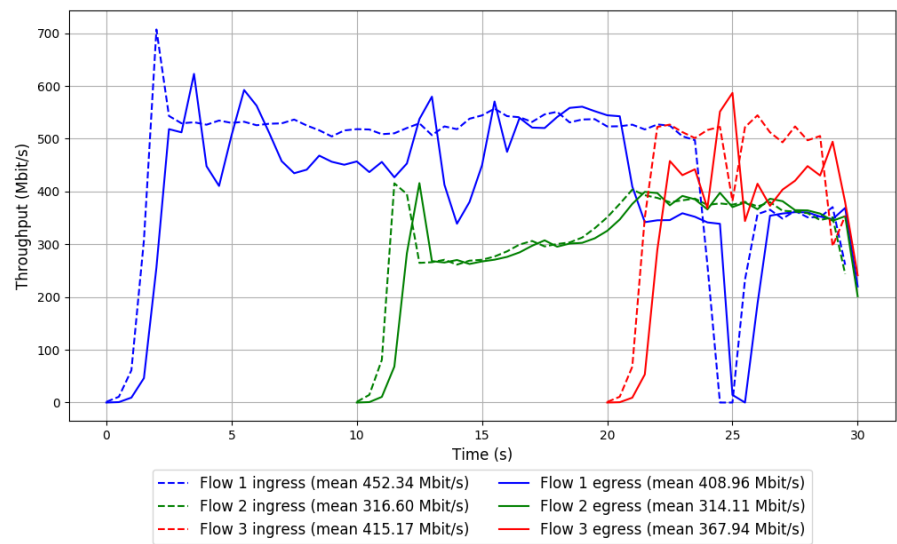


Run 5: Statistics of PCC-Allegro

Start at: 2018-11-30 20:39:05
End at: 2018-11-30 20:39:35
Local clock offset: 0.021 ms
Remote clock offset: -0.126 ms

Below is generated by plot.py at 2018-11-30 23:17:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 737.35 Mbit/s
95th percentile per-packet one-way delay: 212.260 ms
Loss rate: 8.16%
-- Flow 1:
Average throughput: 408.96 Mbit/s
95th percentile per-packet one-way delay: 217.283 ms
Loss rate: 9.97%
-- Flow 2:
Average throughput: 314.11 Mbit/s
95th percentile per-packet one-way delay: 89.485 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 367.94 Mbit/s
95th percentile per-packet one-way delay: 206.486 ms
Loss rate: 12.53%

Run 5: Report of PCC-Allegro — Data Link

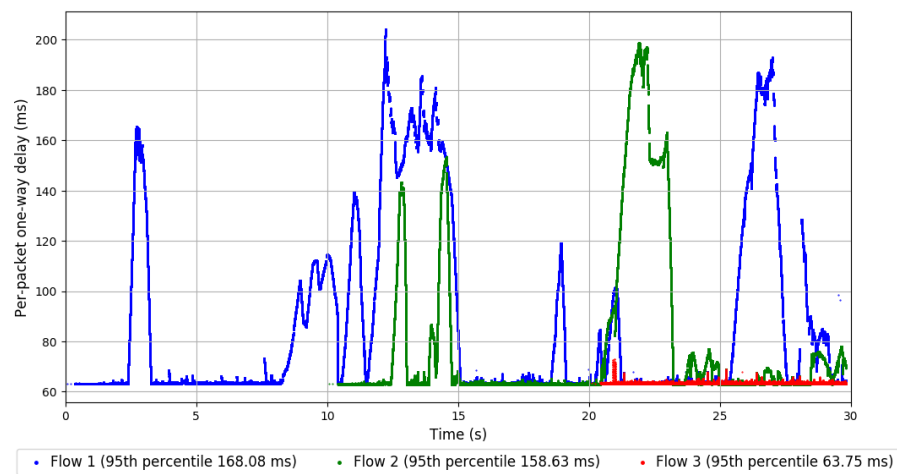
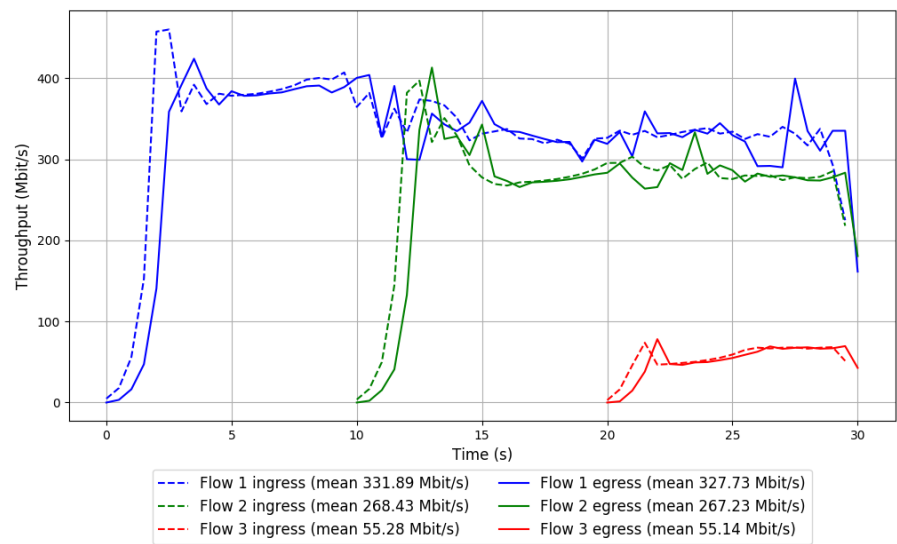


```
Run 1: Statistics of PCC-Expr

Start at: 2018-11-30 18:17:55
End at: 2018-11-30 18:18:25
Local clock offset: -0.185 ms
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2018-11-30 23:17:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 523.06 Mbit/s
95th percentile per-packet one-way delay: 166.349 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 327.73 Mbit/s
95th percentile per-packet one-way delay: 168.081 ms
Loss rate: 1.67%
-- Flow 2:
Average throughput: 267.23 Mbit/s
95th percentile per-packet one-way delay: 158.629 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 55.14 Mbit/s
95th percentile per-packet one-way delay: 63.752 ms
Loss rate: 1.54%
```

Run 1: Report of PCC-Expr — Data Link

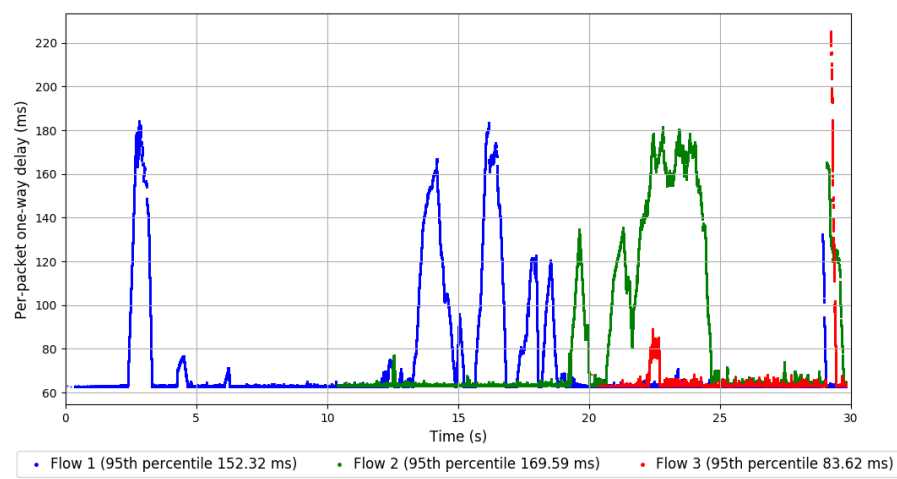
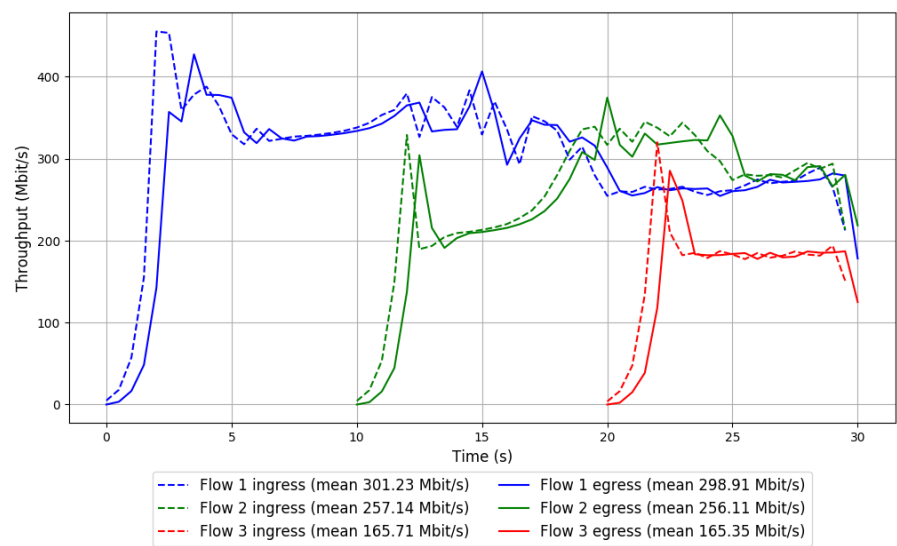


Run 2: Statistics of PCC-Expr

Start at: 2018-11-30 18:51:22
End at: 2018-11-30 18:51:52
Local clock offset: -0.235 ms
Remote clock offset: -0.066 ms

Below is generated by plot.py at 2018-11-30 23:17:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 523.02 Mbit/s
95th percentile per-packet one-way delay: 161.795 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 298.91 Mbit/s
95th percentile per-packet one-way delay: 152.324 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 256.11 Mbit/s
95th percentile per-packet one-way delay: 169.593 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 165.35 Mbit/s
95th percentile per-packet one-way delay: 83.620 ms
Loss rate: 1.55%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-11-30 19:24:41

End at: 2018-11-30 19:25:11

Local clock offset: -0.083 ms

Remote clock offset: 0.28 ms

Below is generated by plot.py at 2018-11-30 23:17:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 494.42 Mbit/s

95th percentile per-packet one-way delay: 139.162 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 324.63 Mbit/s

95th percentile per-packet one-way delay: 140.130 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 249.53 Mbit/s

95th percentile per-packet one-way delay: 134.085 ms

Loss rate: 1.84%

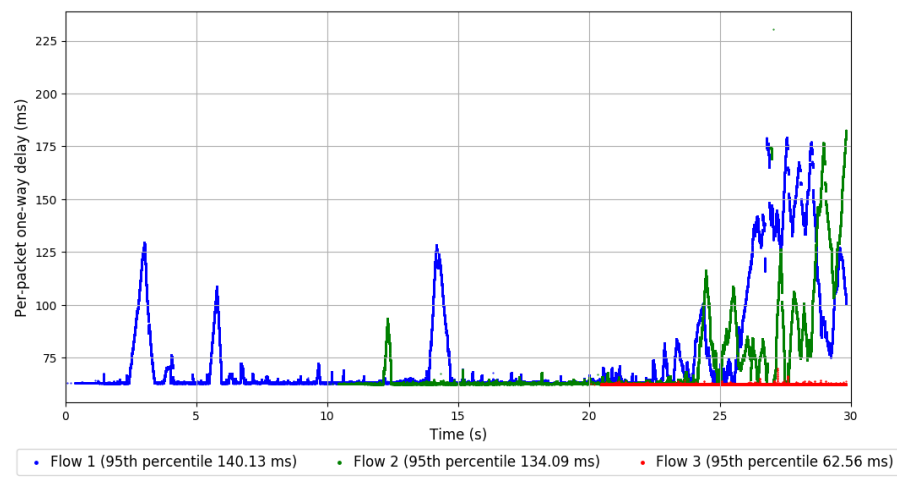
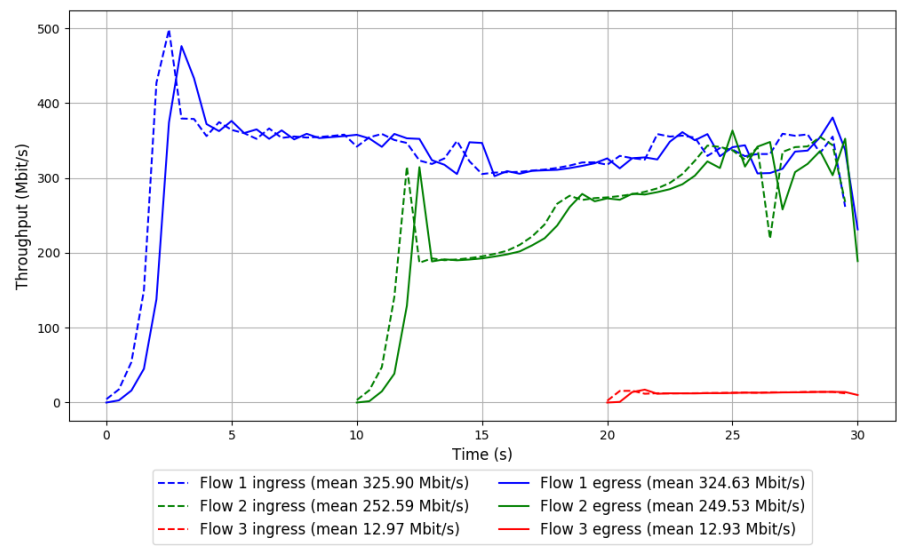
-- Flow 3:

Average throughput: 12.93 Mbit/s

95th percentile per-packet one-way delay: 62.560 ms

Loss rate: 1.61%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-11-30 19:58:17

End at: 2018-11-30 19:58:47

Local clock offset: 0.006 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2018-11-30 23:18:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 525.97 Mbit/s

95th percentile per-packet one-way delay: 174.757 ms

Loss rate: 2.62%

-- Flow 1:

Average throughput: 317.14 Mbit/s

95th percentile per-packet one-way delay: 176.373 ms

Loss rate: 2.82%

-- Flow 2:

Average throughput: 265.27 Mbit/s

95th percentile per-packet one-way delay: 174.433 ms

Loss rate: 2.45%

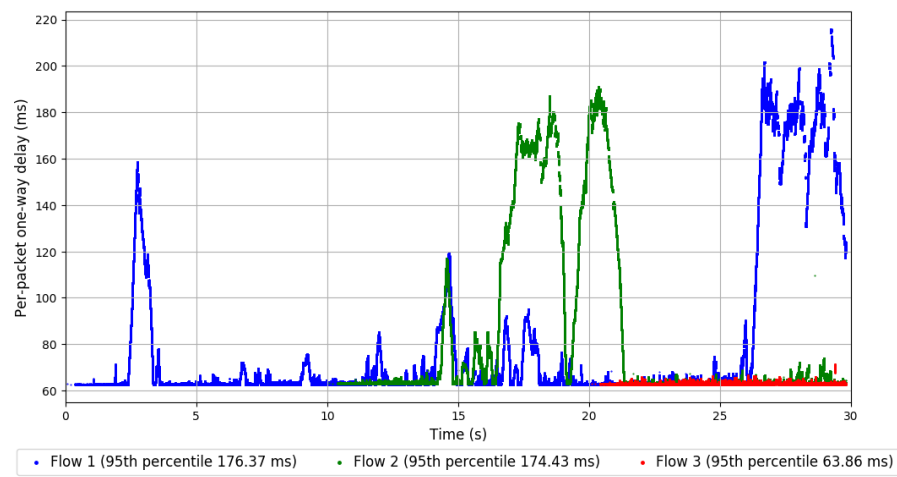
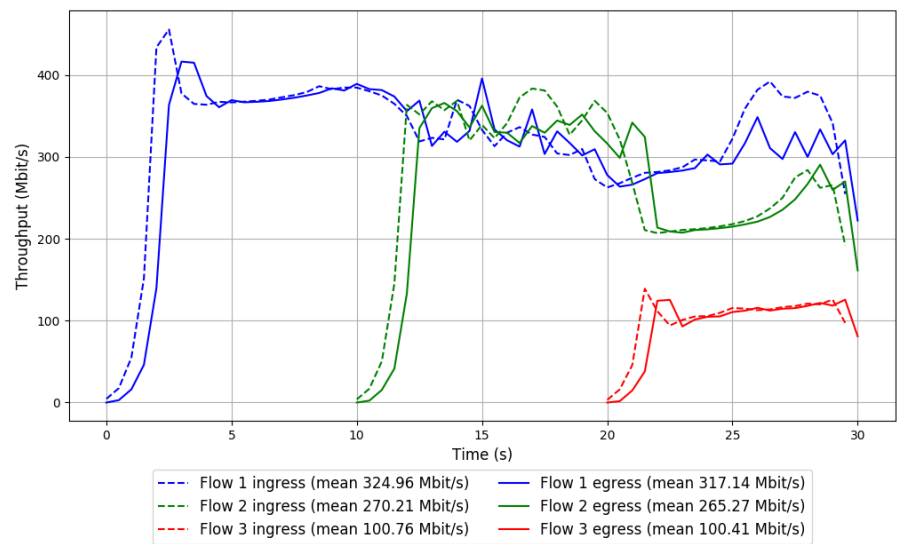
-- Flow 3:

Average throughput: 100.41 Mbit/s

95th percentile per-packet one-way delay: 63.860 ms

Loss rate: 1.63%

Run 4: Report of PCC-Expr — Data Link

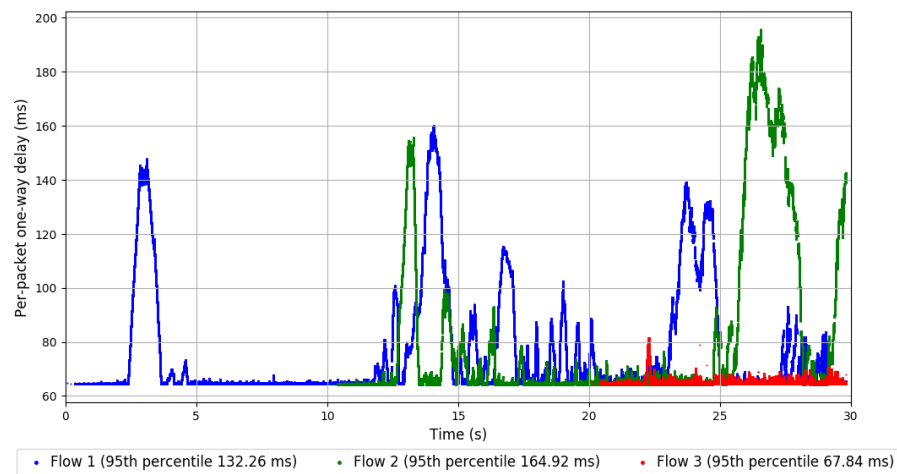
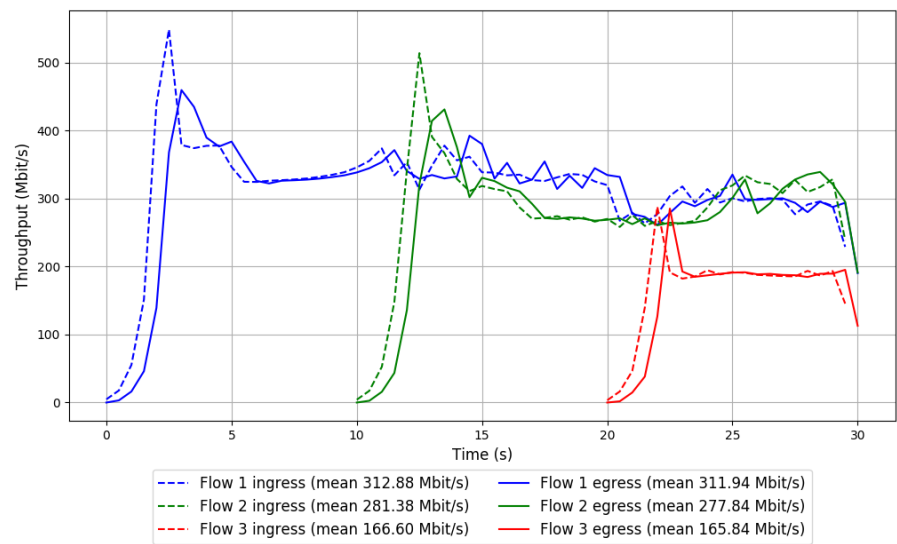


Run 5: Statistics of PCC-Expr

Start at: 2018-11-30 20:31:59
End at: 2018-11-30 20:32:29
Local clock offset: -0.026 ms
Remote clock offset: -1.205 ms

Below is generated by plot.py at 2018-11-30 23:24:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 550.48 Mbit/s
95th percentile per-packet one-way delay: 142.442 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 311.94 Mbit/s
95th percentile per-packet one-way delay: 132.263 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 277.84 Mbit/s
95th percentile per-packet one-way delay: 164.919 ms
Loss rate: 1.89%
-- Flow 3:
Average throughput: 165.84 Mbit/s
95th percentile per-packet one-way delay: 67.842 ms
Loss rate: 1.71%

Run 5: Report of PCC-Expr — Data Link

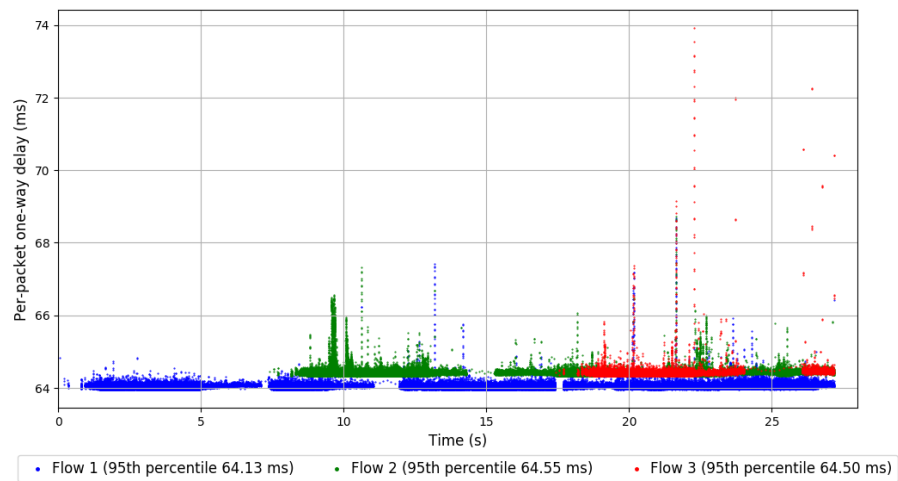
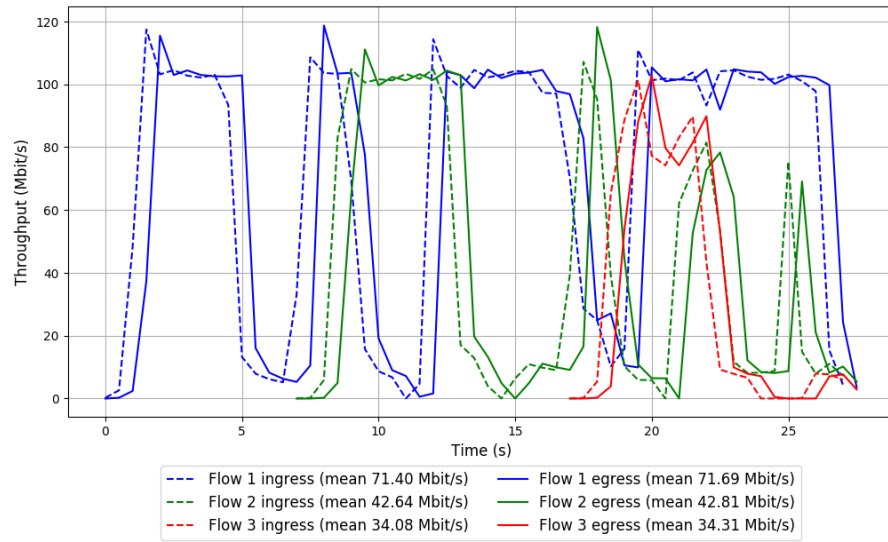


Run 1: Statistics of QUIC Cubic

Start at: 2018-11-30 18:27:00
End at: 2018-11-30 18:27:30
Local clock offset: -0.182 ms
Remote clock offset: -1.376 ms

Below is generated by plot.py at 2018-11-30 23:24:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 115.25 Mbit/s
95th percentile per-packet one-way delay: 64.460 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 71.69 Mbit/s
95th percentile per-packet one-way delay: 64.131 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 42.81 Mbit/s
95th percentile per-packet one-way delay: 64.552 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 34.31 Mbit/s
95th percentile per-packet one-way delay: 64.497 ms
Loss rate: 0.60%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-11-30 19:00:28

End at: 2018-11-30 19:00:58

Local clock offset: -0.197 ms

Remote clock offset: -0.26 ms

Below is generated by plot.py at 2018-11-30 23:24:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.07 Mbit/s

95th percentile per-packet one-way delay: 63.025 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 63.51 Mbit/s

95th percentile per-packet one-way delay: 62.921 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 52.54 Mbit/s

95th percentile per-packet one-way delay: 63.069 ms

Loss rate: 1.23%

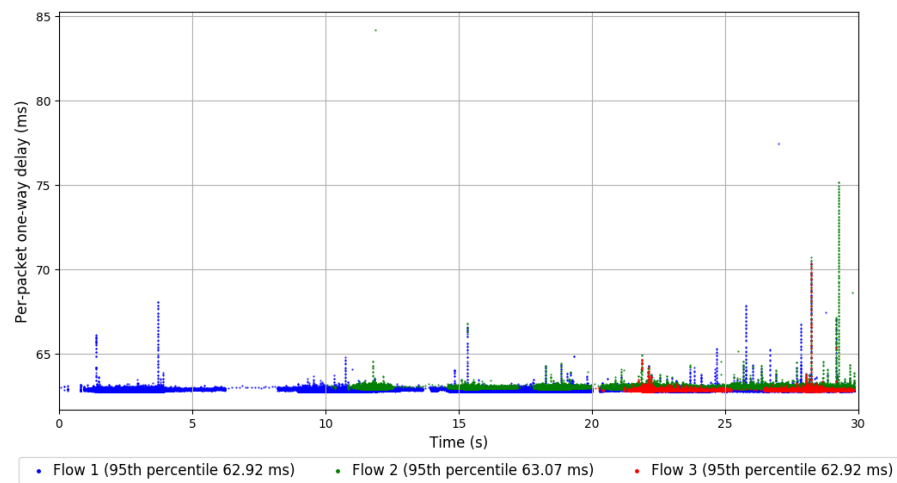
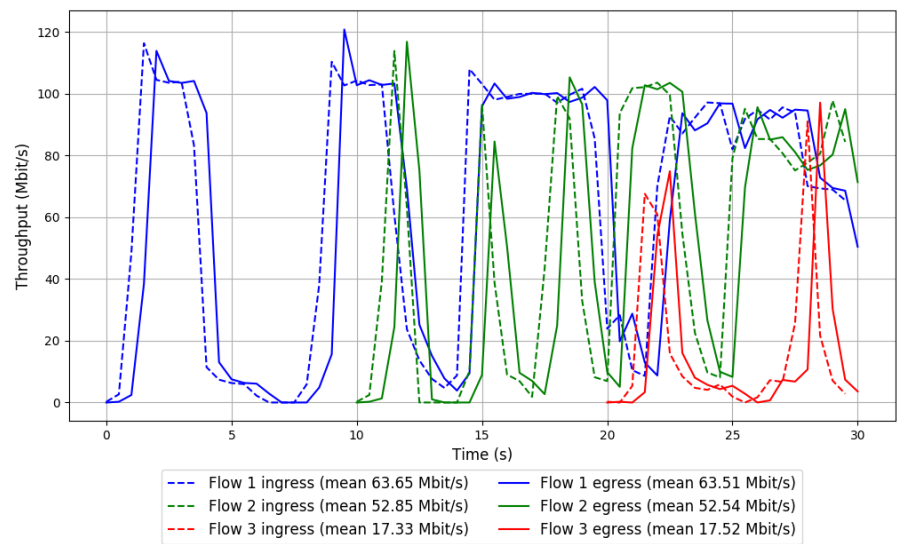
-- Flow 3:

Average throughput: 17.52 Mbit/s

95th percentile per-packet one-way delay: 62.924 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link

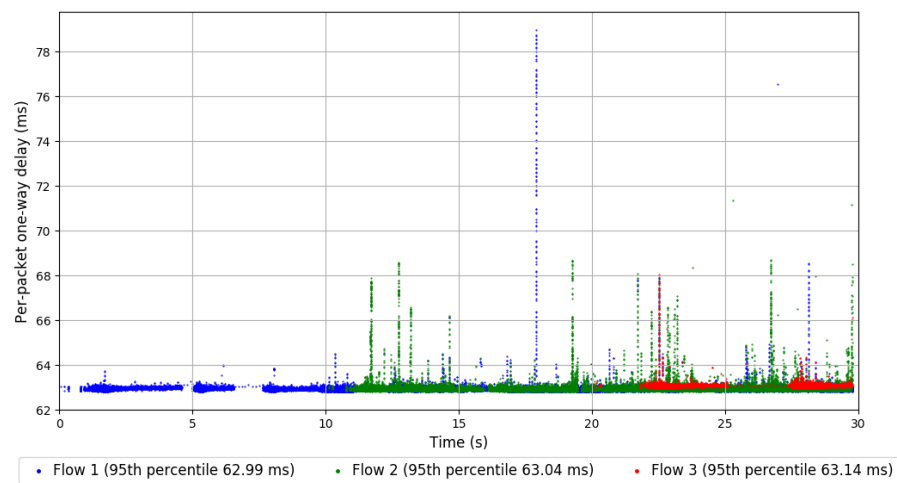
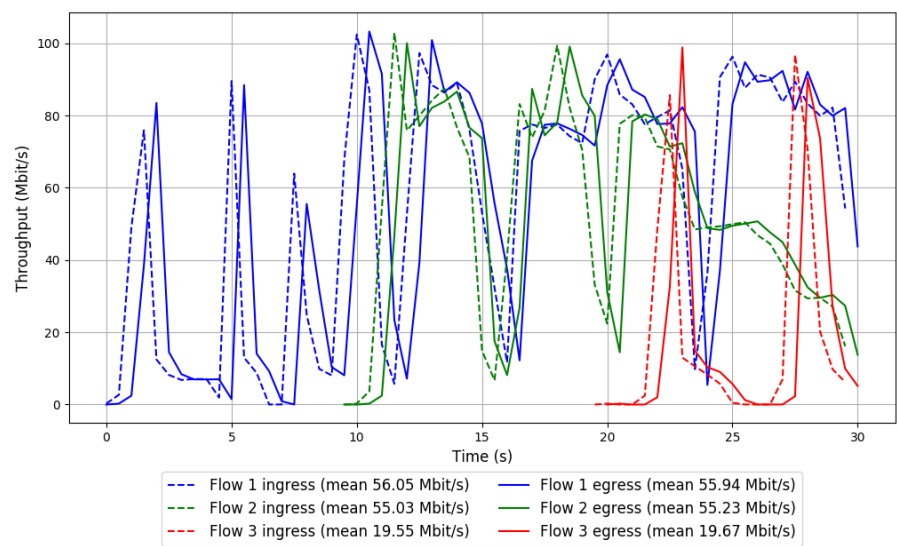


Run 3: Statistics of QUIC Cubic

Start at: 2018-11-30 19:33:52
End at: 2018-11-30 19:34:22
Local clock offset: -0.074 ms
Remote clock offset: -0.184 ms

Below is generated by plot.py at 2018-11-30 23:24:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 99.13 Mbit/s
95th percentile per-packet one-way delay: 63.061 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 55.94 Mbit/s
95th percentile per-packet one-way delay: 62.988 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 55.23 Mbit/s
95th percentile per-packet one-way delay: 63.044 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 19.67 Mbit/s
95th percentile per-packet one-way delay: 63.144 ms
Loss rate: 0.61%

Run 3: Report of QUIC Cubic — Data Link

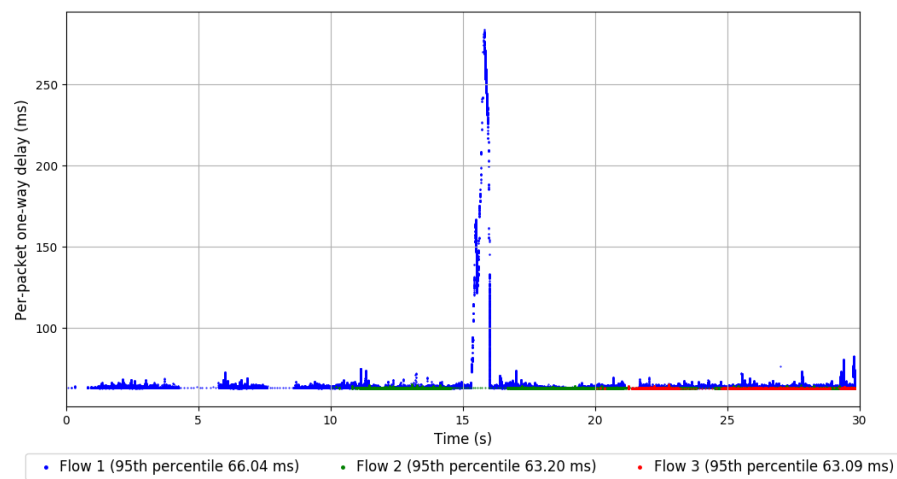
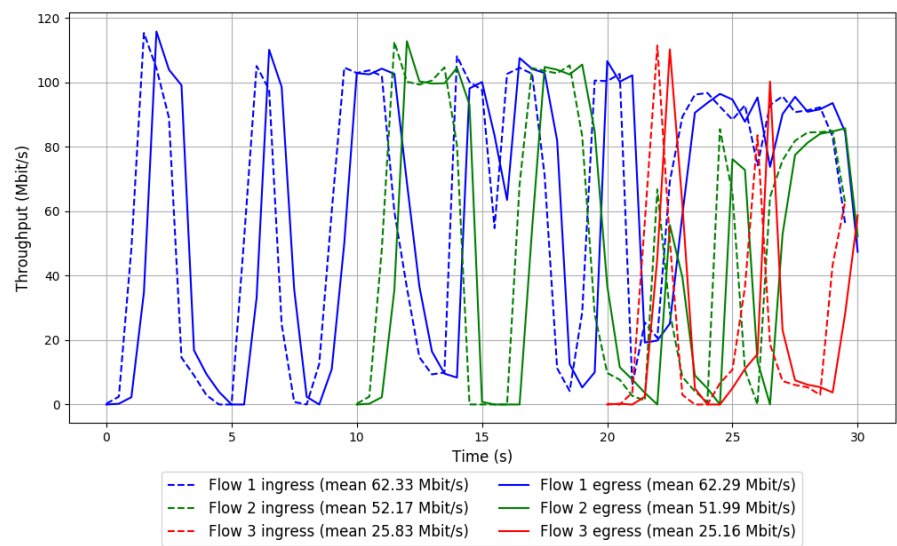


Run 4: Statistics of QUIC Cubic

Start at: 2018-11-30 20:07:25
End at: 2018-11-30 20:07:55
Local clock offset: 0.002 ms
Remote clock offset: -0.107 ms

Below is generated by plot.py at 2018-11-30 23:24:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 105.05 Mbit/s
95th percentile per-packet one-way delay: 64.612 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 62.29 Mbit/s
95th percentile per-packet one-way delay: 66.040 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 51.99 Mbit/s
95th percentile per-packet one-way delay: 63.204 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 25.16 Mbit/s
95th percentile per-packet one-way delay: 63.090 ms
Loss rate: 3.82%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-11-30 20:41:09

End at: 2018-11-30 20:41:39

Local clock offset: -0.013 ms

Remote clock offset: 0.157 ms

Below is generated by plot.py at 2018-11-30 23:24:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.05 Mbit/s

95th percentile per-packet one-way delay: 62.958 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 51.40 Mbit/s

95th percentile per-packet one-way delay: 62.907 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 45.70 Mbit/s

95th percentile per-packet one-way delay: 62.995 ms

Loss rate: 1.11%

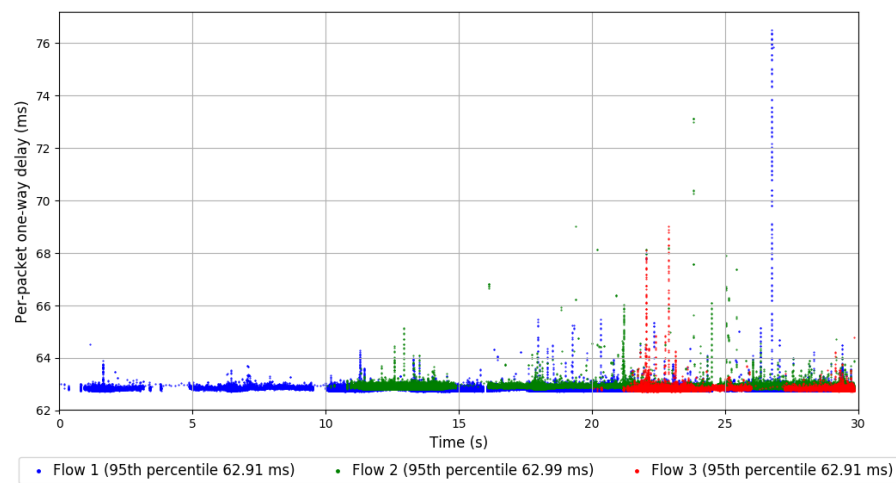
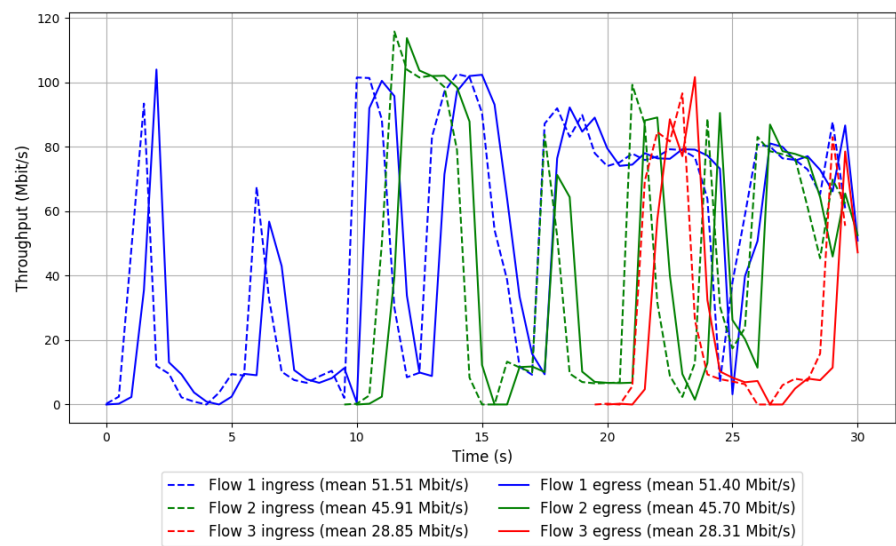
-- Flow 3:

Average throughput: 28.31 Mbit/s

95th percentile per-packet one-way delay: 62.915 ms

Loss rate: 3.14%

Run 5: Report of QUIC Cubic — Data Link

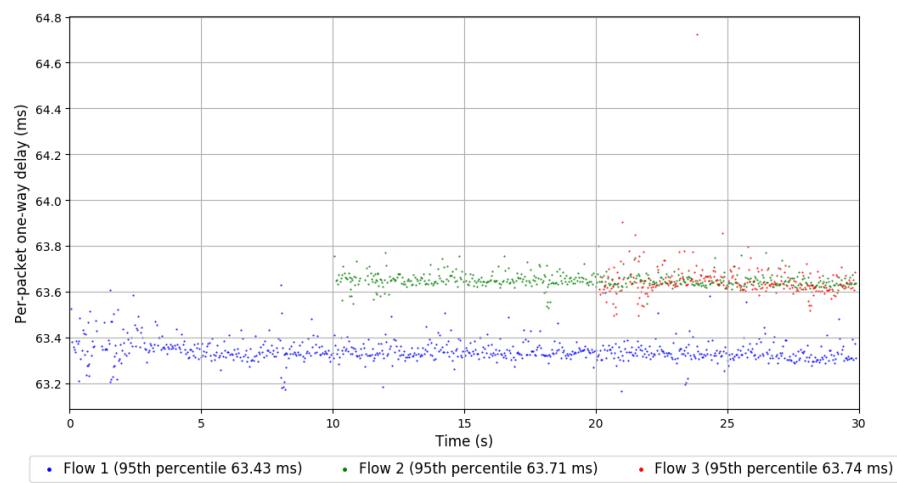
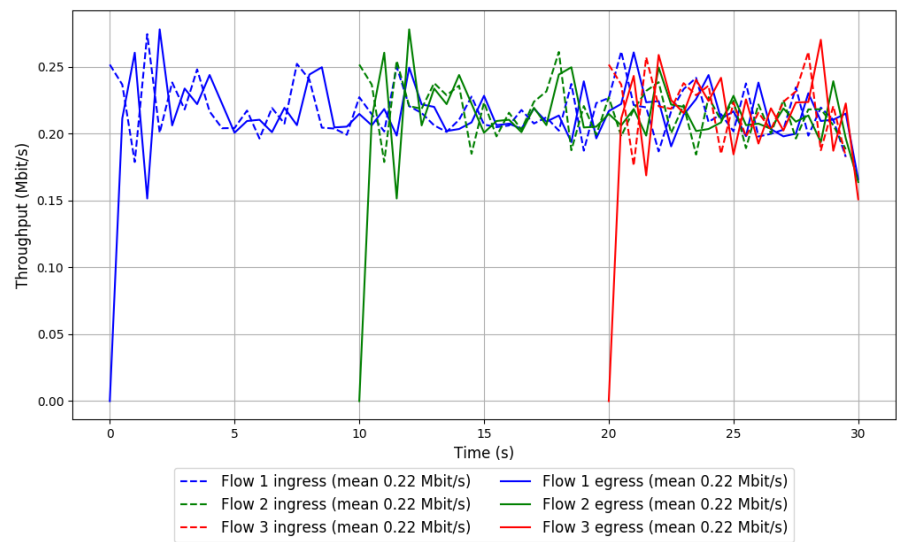


Run 1: Statistics of SCReAM

Start at: 2018-11-30 18:14:51
End at: 2018-11-30 18:15:21
Local clock offset: -0.167 ms
Remote clock offset: -0.495 ms

Below is generated by plot.py at 2018-11-30 23:24:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.689 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.431 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.708 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.742 ms
Loss rate: 1.45%

Run 1: Report of SCSReAM — Data Link

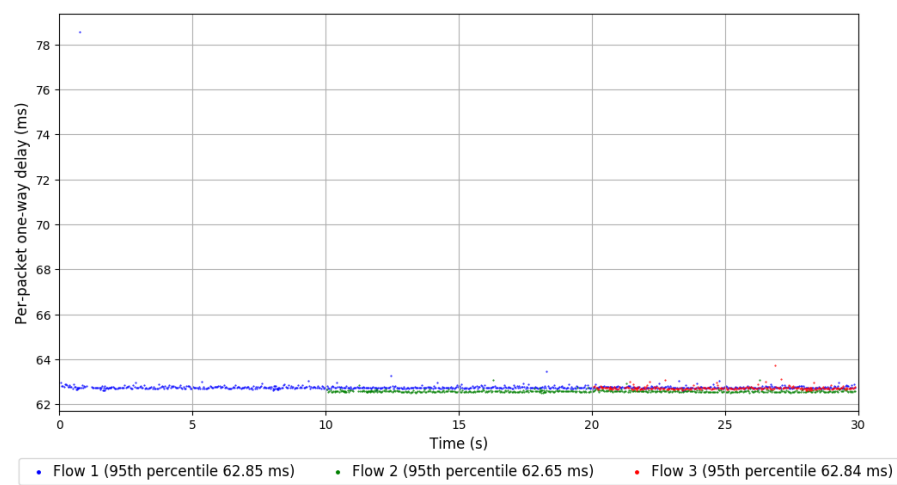
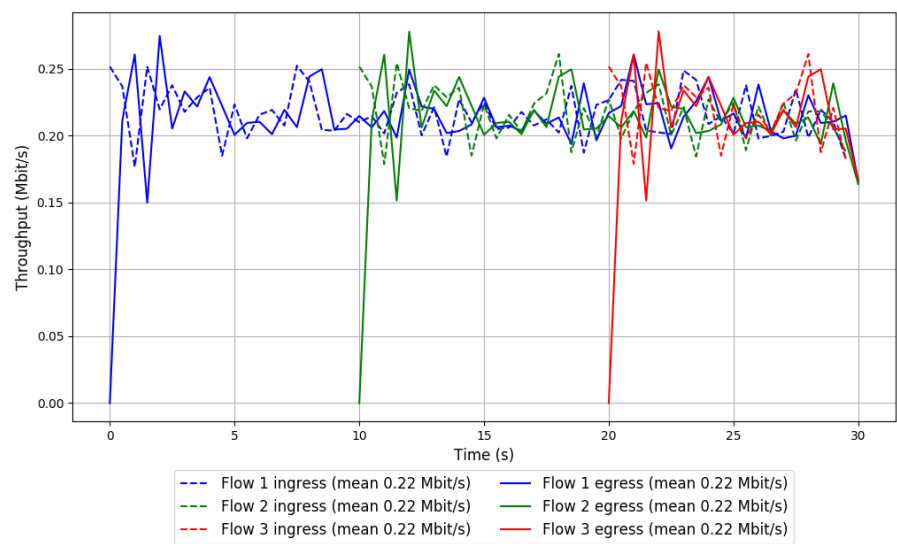


Run 2: Statistics of SReAM

Start at: 2018-11-30 18:48:19
End at: 2018-11-30 18:48:49
Local clock offset: -0.169 ms
Remote clock offset: 0.368 ms

Below is generated by plot.py at 2018-11-30 23:24:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 62.832 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.855 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.650 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.843 ms
Loss rate: 1.08%

Run 2: Report of SReAM — Data Link

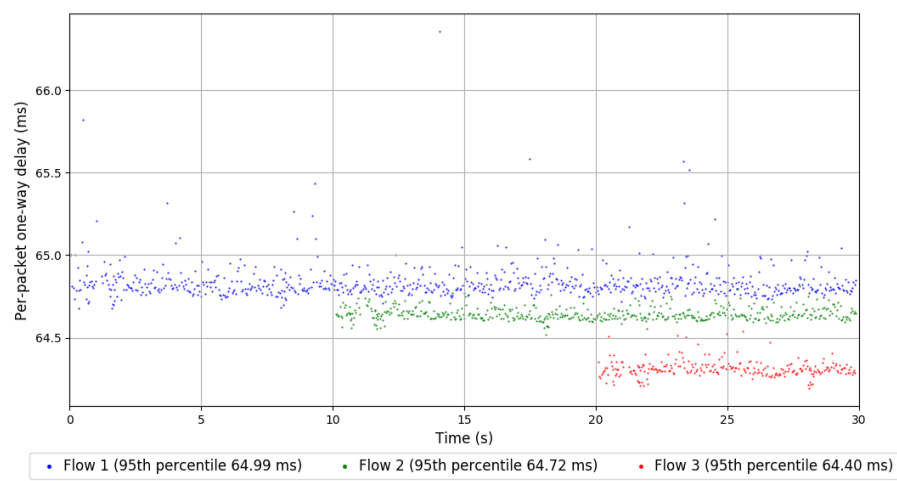
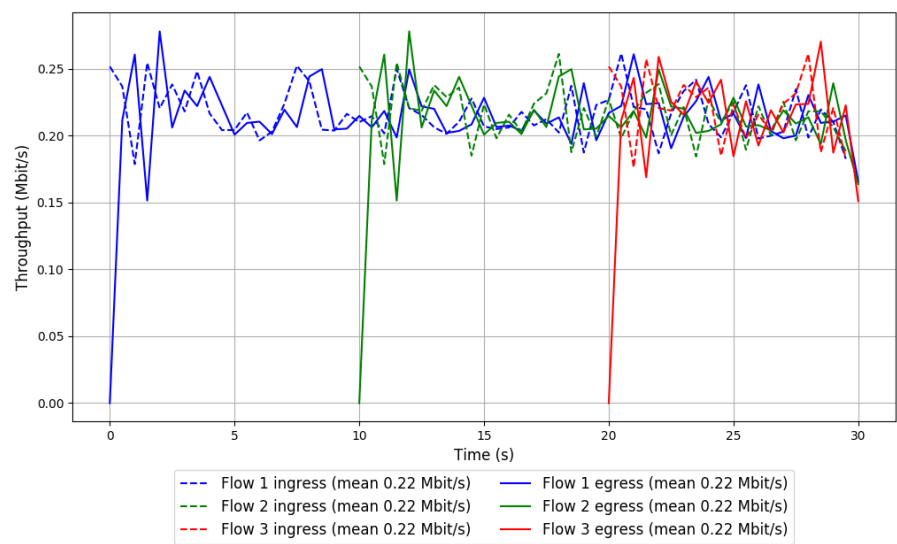


Run 3: Statistics of SReAM

Start at: 2018-11-30 19:21:36
End at: 2018-11-30 19:22:06
Local clock offset: -0.089 ms
Remote clock offset: -1.473 ms

Below is generated by plot.py at 2018-11-30 23:24:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 64.929 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.992 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.720 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.401 ms
Loss rate: 1.45%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-11-30 19:55:14

End at: 2018-11-30 19:55:44

Local clock offset: -0.02 ms

Remote clock offset: 0.112 ms

Below is generated by plot.py at 2018-11-30 23:24:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 63.483 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.524 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 62.992 ms

Loss rate: 0.61%

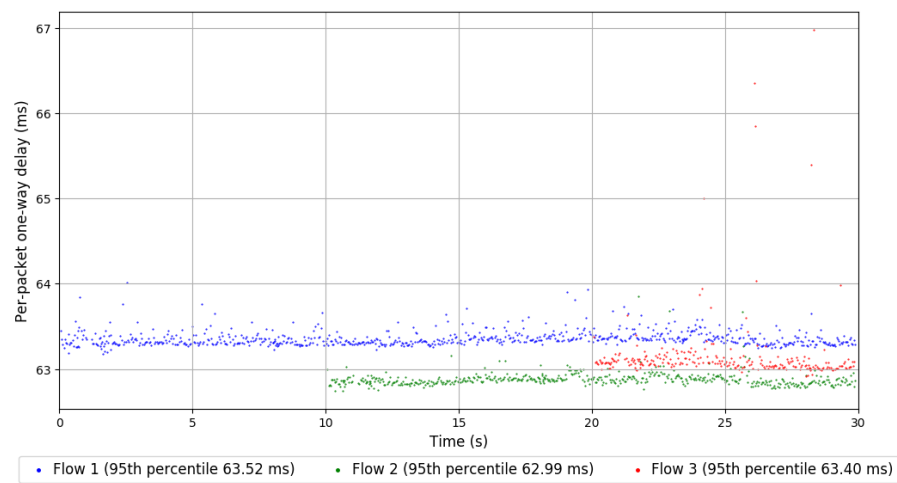
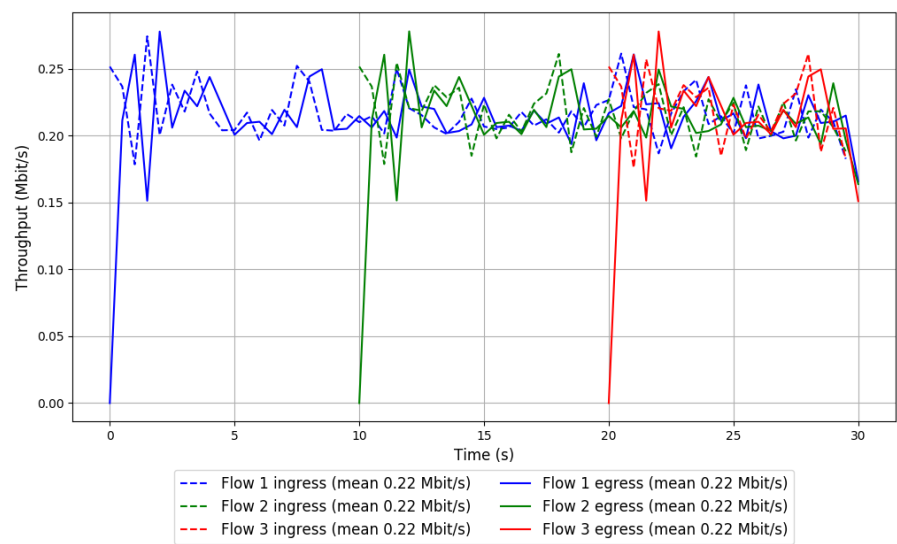
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.398 ms

Loss rate: 1.45%

Run 4: Report of SReAM — Data Link

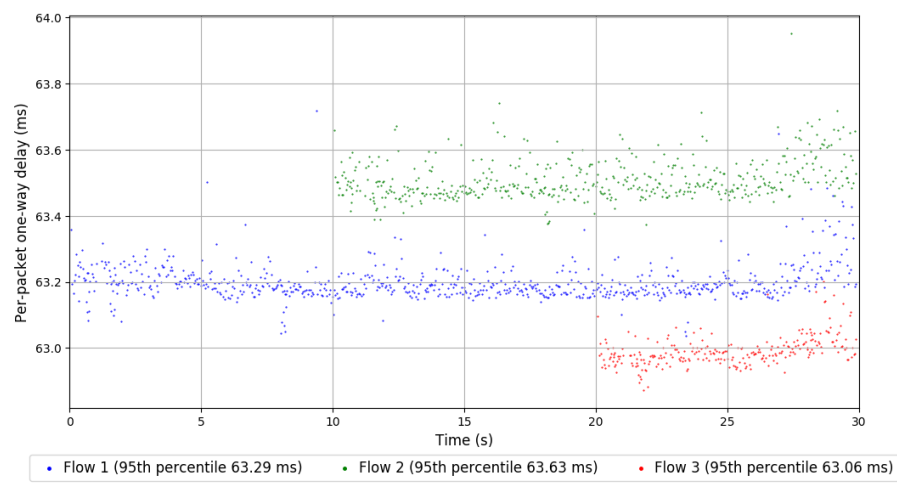
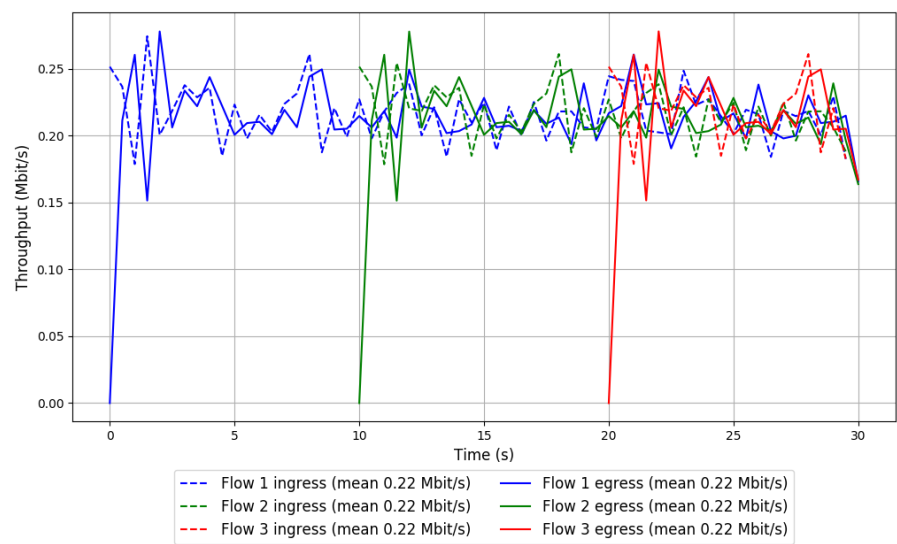


Run 5: Statistics of SReAM

Start at: 2018-11-30 20:28:53
End at: 2018-11-30 20:29:23
Local clock offset: -0.025 ms
Remote clock offset: -0.114 ms

Below is generated by plot.py at 2018-11-30 23:24:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.570 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.288 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.634 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.062 ms
Loss rate: 1.08%

Run 5: Report of SReAM — Data Link

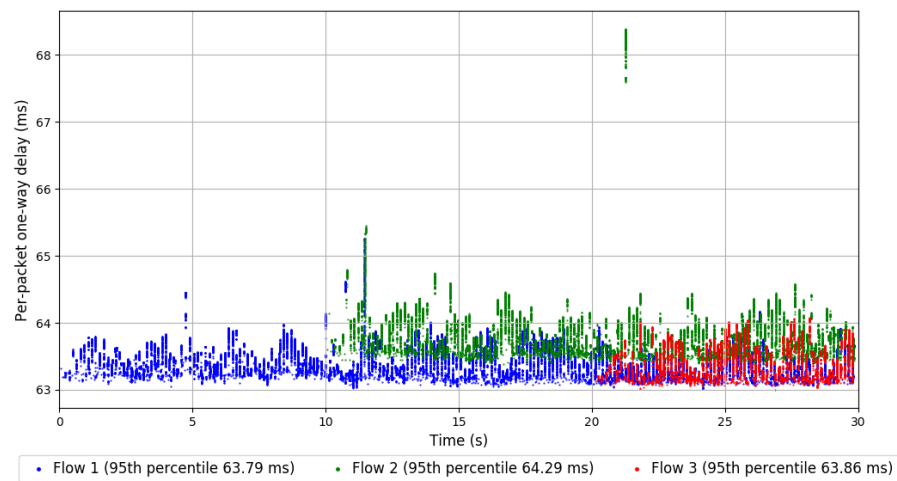
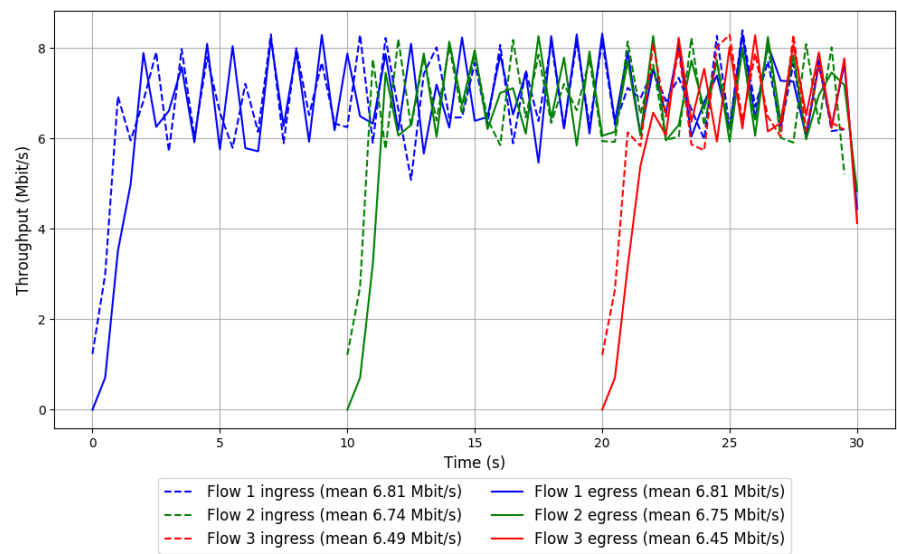


Run 1: Statistics of Sprout

Start at: 2018-11-30 18:19:56
End at: 2018-11-30 18:20:26
Local clock offset: -0.147 ms
Remote clock offset: -0.114 ms

Below is generated by plot.py at 2018-11-30 23:24:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.40 Mbit/s
95th percentile per-packet one-way delay: 64.103 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 6.81 Mbit/s
95th percentile per-packet one-way delay: 63.786 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 6.75 Mbit/s
95th percentile per-packet one-way delay: 64.292 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 6.45 Mbit/s
95th percentile per-packet one-way delay: 63.859 ms
Loss rate: 1.62%

Run 1: Report of Sprout — Data Link

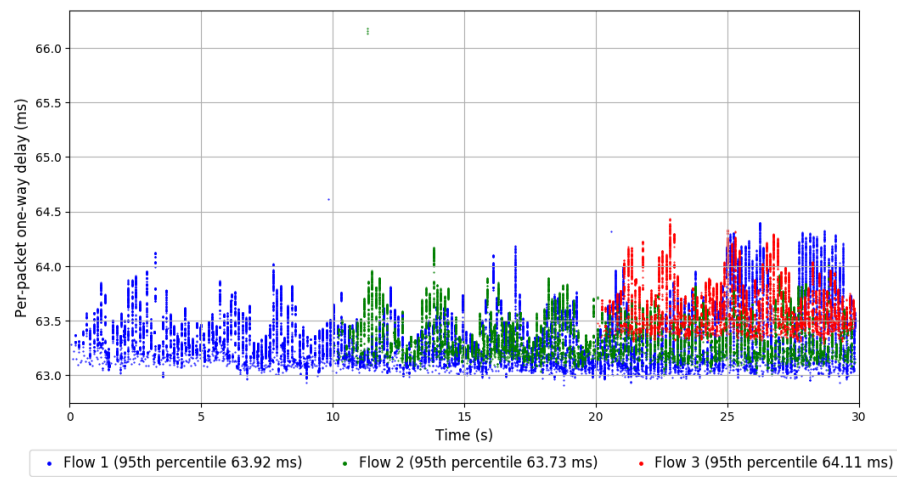
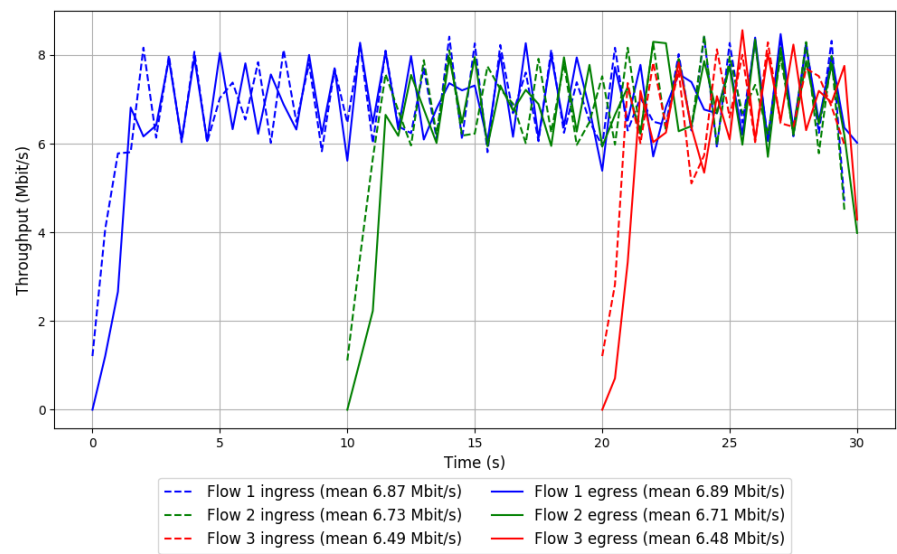


Run 2: Statistics of Sprout

Start at: 2018-11-30 18:53:24
End at: 2018-11-30 18:53:54
Local clock offset: -0.184 ms
Remote clock offset: -0.379 ms

Below is generated by plot.py at 2018-11-30 23:24:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.46 Mbit/s
95th percentile per-packet one-way delay: 63.928 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 6.89 Mbit/s
95th percentile per-packet one-way delay: 63.925 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 6.71 Mbit/s
95th percentile per-packet one-way delay: 63.732 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 6.48 Mbit/s
95th percentile per-packet one-way delay: 64.107 ms
Loss rate: 1.52%

Run 2: Report of Sprout — Data Link

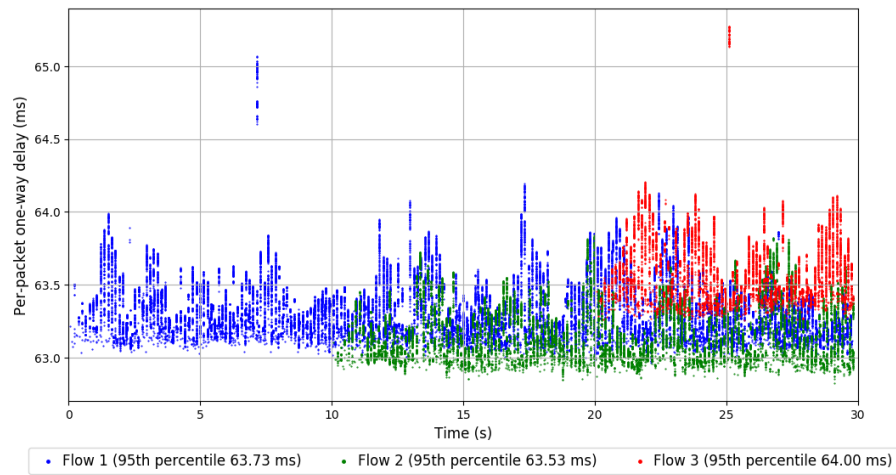
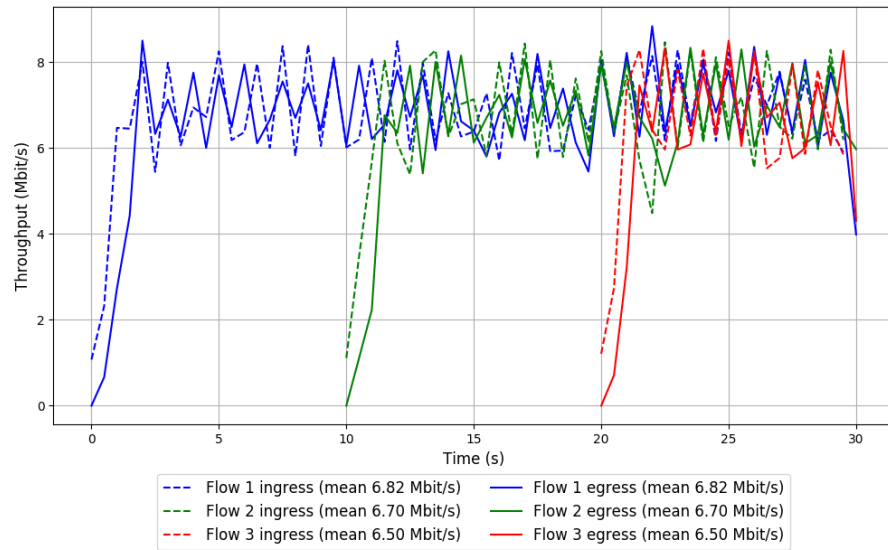


Run 3: Statistics of Sprout

Start at: 2018-11-30 19:26:40
End at: 2018-11-30 19:27:10
Local clock offset: -0.09 ms
Remote clock offset: -0.065 ms

```
# Below is generated by plot.py at 2018-11-30 23:24:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.38 Mbit/s
95th percentile per-packet one-way delay: 63.790 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 6.82 Mbit/s
95th percentile per-packet one-way delay: 63.734 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 6.70 Mbit/s
95th percentile per-packet one-way delay: 63.533 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 6.50 Mbit/s
95th percentile per-packet one-way delay: 63.997 ms
Loss rate: 1.44%
```

Run 3: Report of Sprout — Data Link

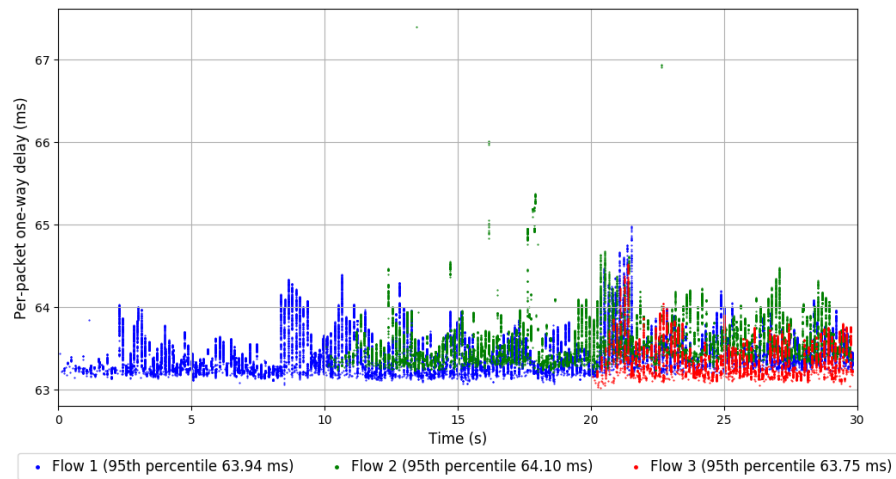
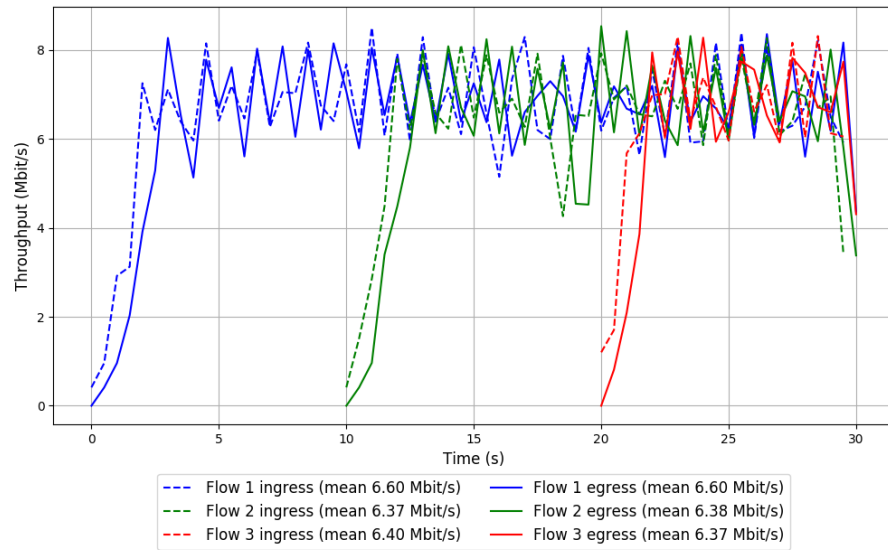


Run 4: Statistics of Sprout

Start at: 2018-11-30 20:00:19
End at: 2018-11-30 20:00:49
Local clock offset: 0.006 ms
Remote clock offset: -0.163 ms

```
# Below is generated by plot.py at 2018-11-30 23:24:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.91 Mbit/s
95th percentile per-packet one-way delay: 63.987 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 6.60 Mbit/s
95th percentile per-packet one-way delay: 63.935 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 6.38 Mbit/s
95th percentile per-packet one-way delay: 64.096 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 6.37 Mbit/s
95th percentile per-packet one-way delay: 63.752 ms
Loss rate: 1.47%
```

Run 4: Report of Sprout — Data Link

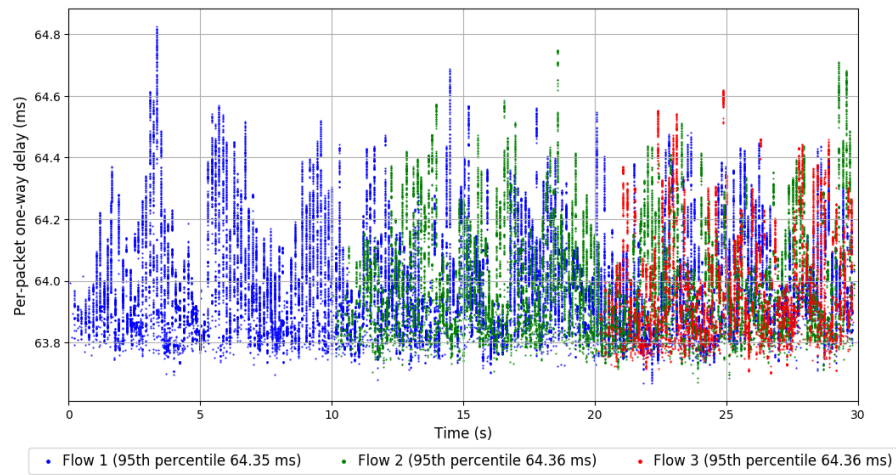
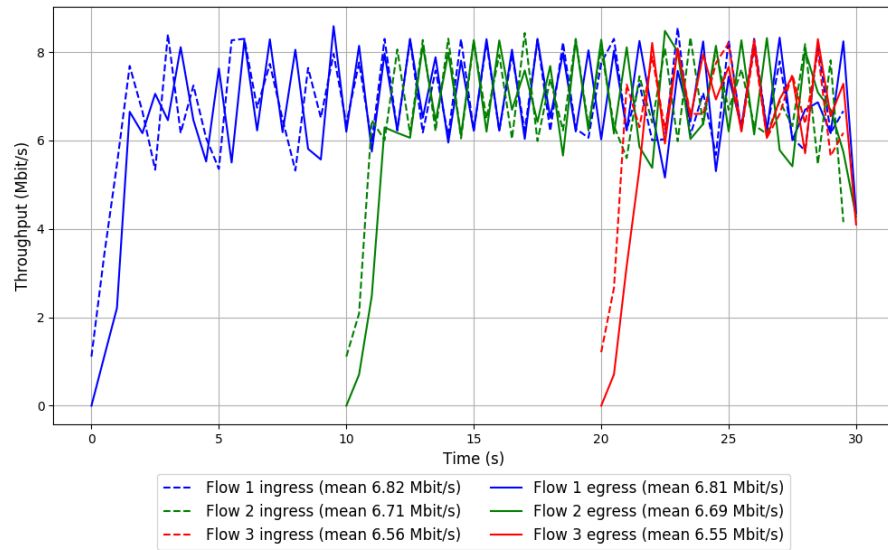


Run 5: Statistics of Sprout

Start at: 2018-11-30 20:34:02
End at: 2018-11-30 20:34:32
Local clock offset: -0.034 ms
Remote clock offset: -0.573 ms

Below is generated by plot.py at 2018-11-30 23:24:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.39 Mbit/s
95th percentile per-packet one-way delay: 64.355 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 6.81 Mbit/s
95th percentile per-packet one-way delay: 64.349 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 6.69 Mbit/s
95th percentile per-packet one-way delay: 64.359 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 6.55 Mbit/s
95th percentile per-packet one-way delay: 64.360 ms
Loss rate: 1.60%

Run 5: Report of Sprout — Data Link

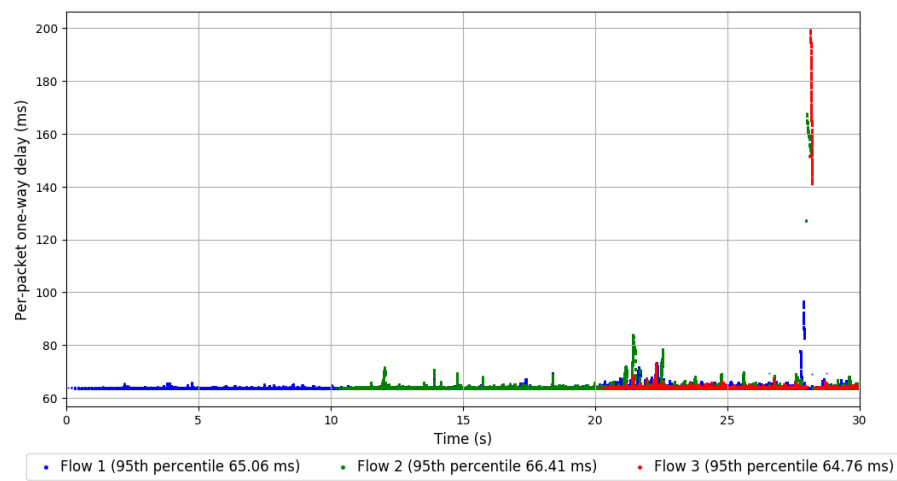
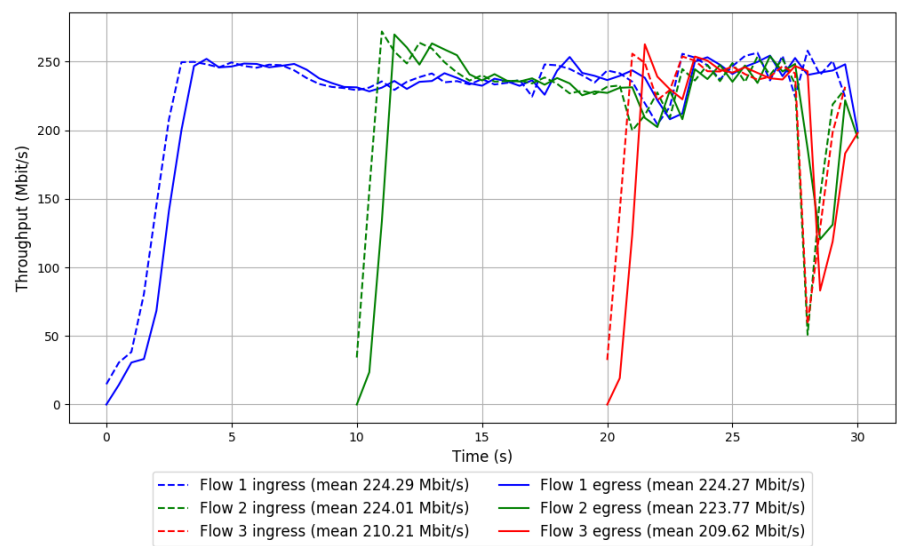


Run 1: Statistics of TaoVA-100x

Start at: 2018-11-30 18:28:19
End at: 2018-11-30 18:28:49
Local clock offset: -0.181 ms
Remote clock offset: -0.753 ms

Below is generated by plot.py at 2018-11-30 23:28:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 442.03 Mbit/s
95th percentile per-packet one-way delay: 65.308 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 224.27 Mbit/s
95th percentile per-packet one-way delay: 65.055 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 223.77 Mbit/s
95th percentile per-packet one-way delay: 66.405 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 209.62 Mbit/s
95th percentile per-packet one-way delay: 64.764 ms
Loss rate: 1.55%

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

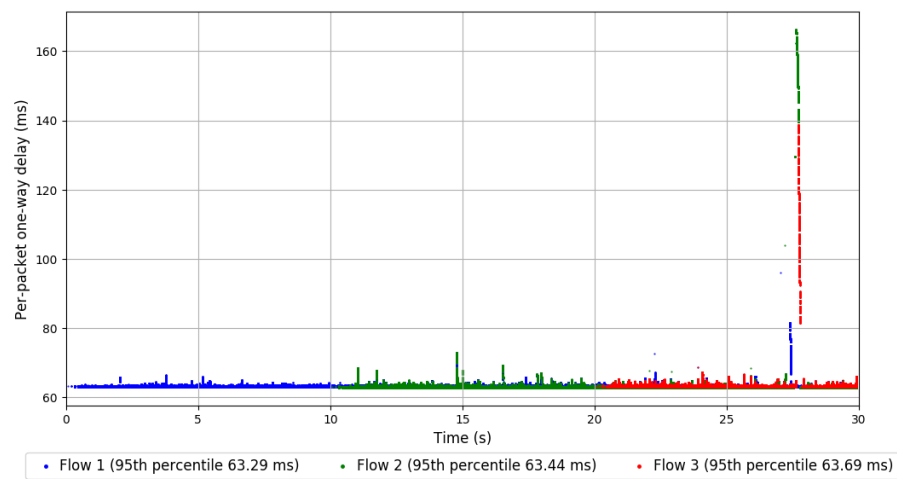
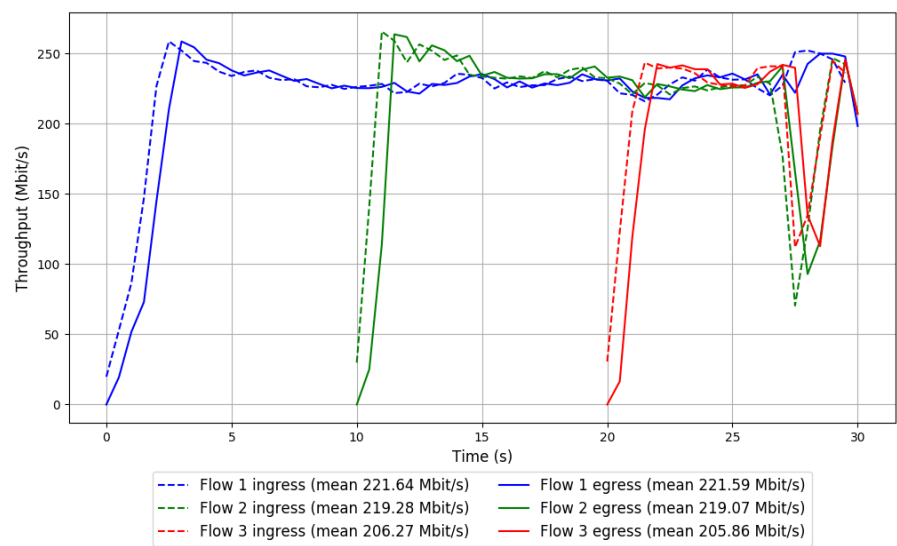


Run 2: Statistics of TaoVA-100x

Start at: 2018-11-30 19:01:47
End at: 2018-11-30 19:02:17
Local clock offset: -0.249 ms
Remote clock offset: -0.174 ms

Below is generated by plot.py at 2018-11-30 23:28:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 435.04 Mbit/s
95th percentile per-packet one-way delay: 63.379 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 221.59 Mbit/s
95th percentile per-packet one-way delay: 63.294 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 219.07 Mbit/s
95th percentile per-packet one-way delay: 63.439 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 205.86 Mbit/s
95th percentile per-packet one-way delay: 63.687 ms
Loss rate: 1.46%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-11-30 19:35:10

End at: 2018-11-30 19:35:40

Local clock offset: -0.051 ms

Remote clock offset: 0.528 ms

Below is generated by plot.py at 2018-11-30 23:28:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 430.47 Mbit/s

95th percentile per-packet one-way delay: 63.486 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 211.80 Mbit/s

95th percentile per-packet one-way delay: 63.407 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 221.94 Mbit/s

95th percentile per-packet one-way delay: 63.394 ms

Loss rate: 0.72%

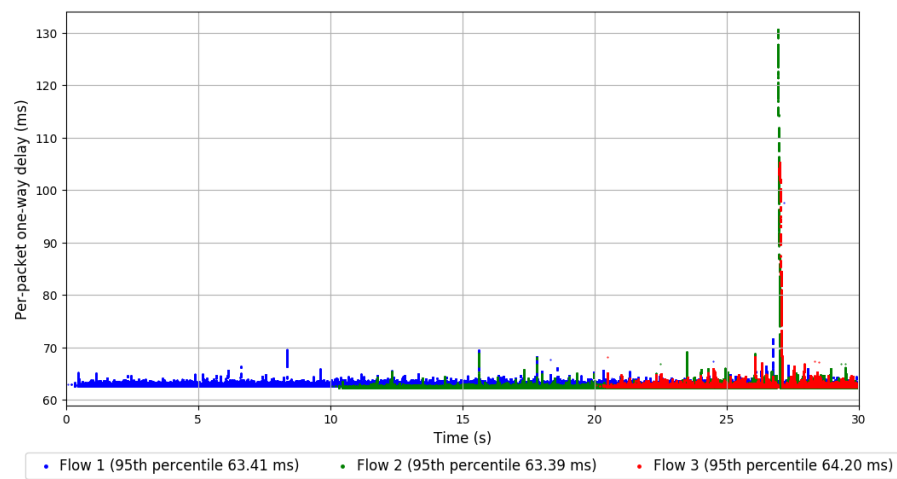
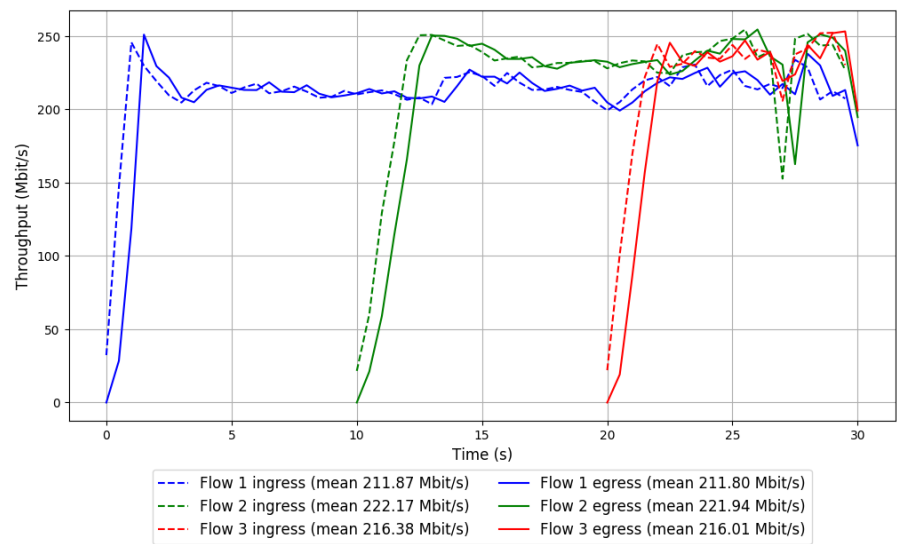
-- Flow 3:

Average throughput: 216.01 Mbit/s

95th percentile per-packet one-way delay: 64.201 ms

Loss rate: 1.45%

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

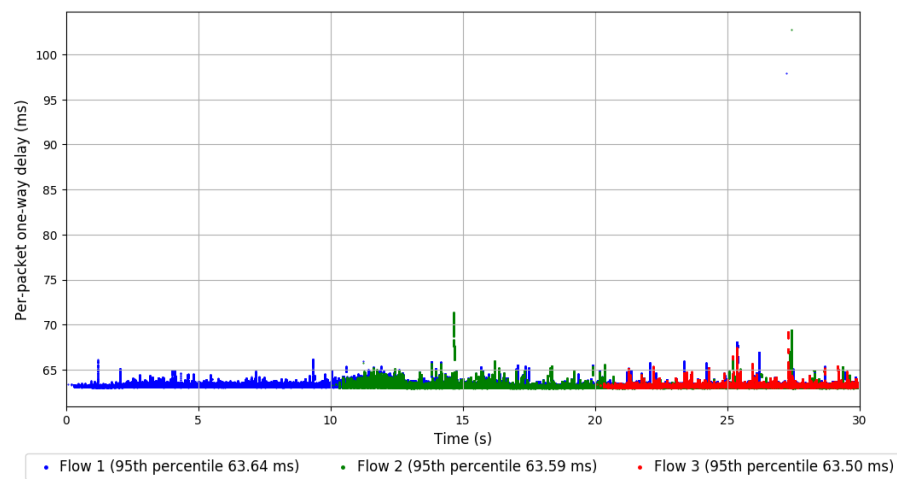
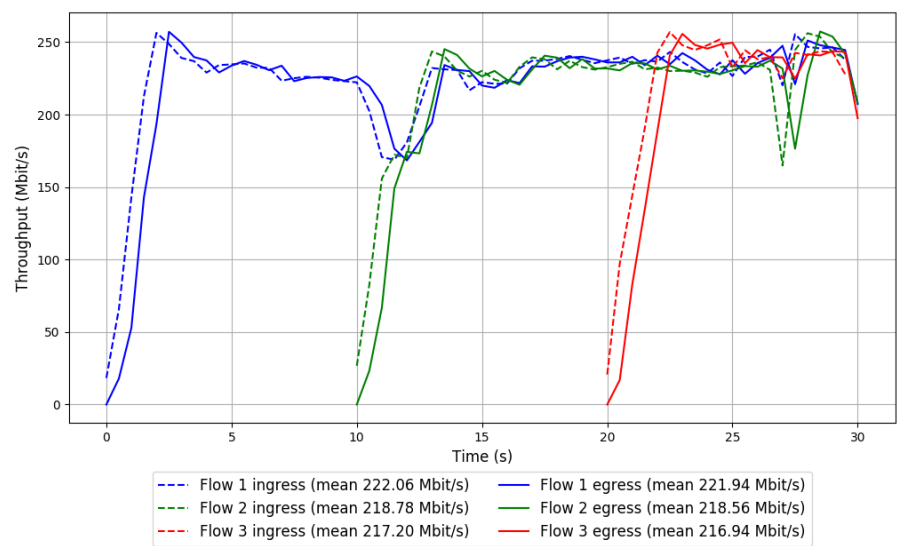


Run 4: Statistics of TaoVA-100x

Start at: 2018-11-30 20:08:44
End at: 2018-11-30 20:09:14
Local clock offset: 0.033 ms
Remote clock offset: -0.059 ms

Below is generated by plot.py at 2018-11-30 23:28:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 438.56 Mbit/s
95th percentile per-packet one-way delay: 63.607 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 221.94 Mbit/s
95th percentile per-packet one-way delay: 63.638 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 218.56 Mbit/s
95th percentile per-packet one-way delay: 63.587 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 216.94 Mbit/s
95th percentile per-packet one-way delay: 63.497 ms
Loss rate: 1.41%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-11-30 20:42:28

End at: 2018-11-30 20:42:58

Local clock offset: -0.026 ms

Remote clock offset: 1.323 ms

Below is generated by plot.py at 2018-11-30 23:33:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 452.70 Mbit/s

95th percentile per-packet one-way delay: 62.633 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 236.59 Mbit/s

95th percentile per-packet one-way delay: 62.603 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 212.94 Mbit/s

95th percentile per-packet one-way delay: 62.985 ms

Loss rate: 0.74%

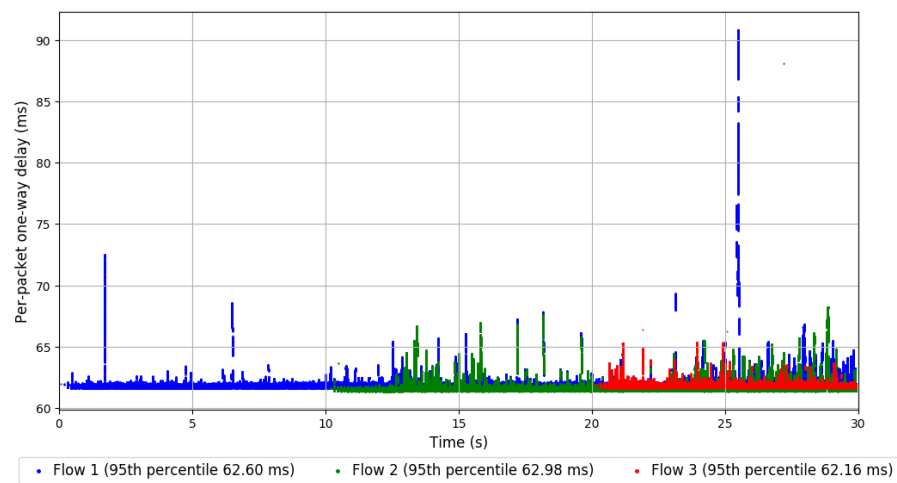
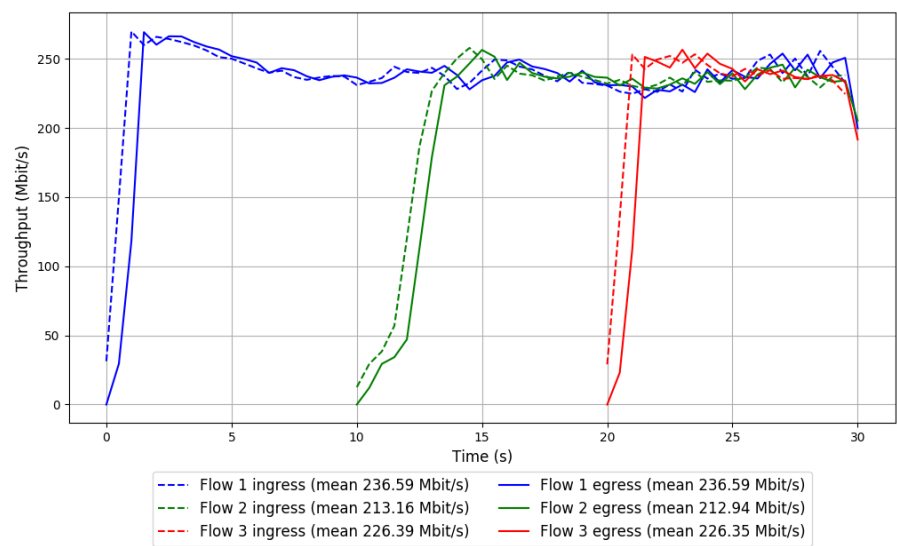
-- Flow 3:

Average throughput: 226.35 Mbit/s

95th percentile per-packet one-way delay: 62.161 ms

Loss rate: 1.36%

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

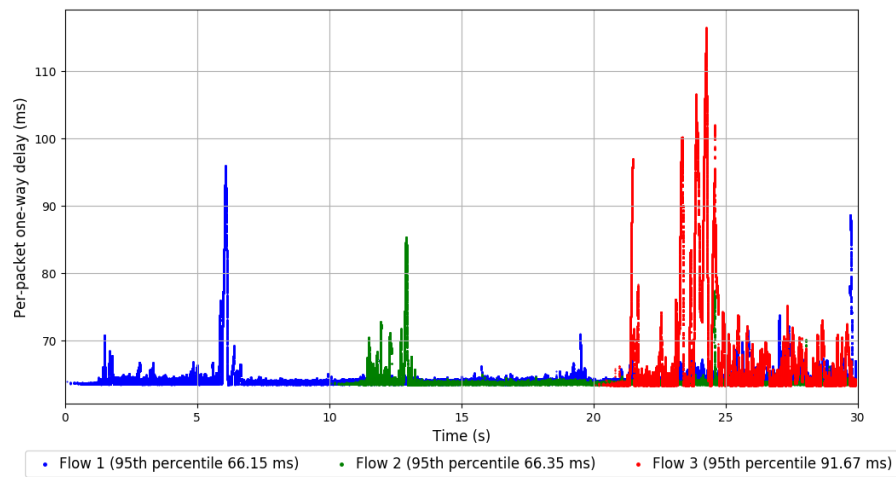
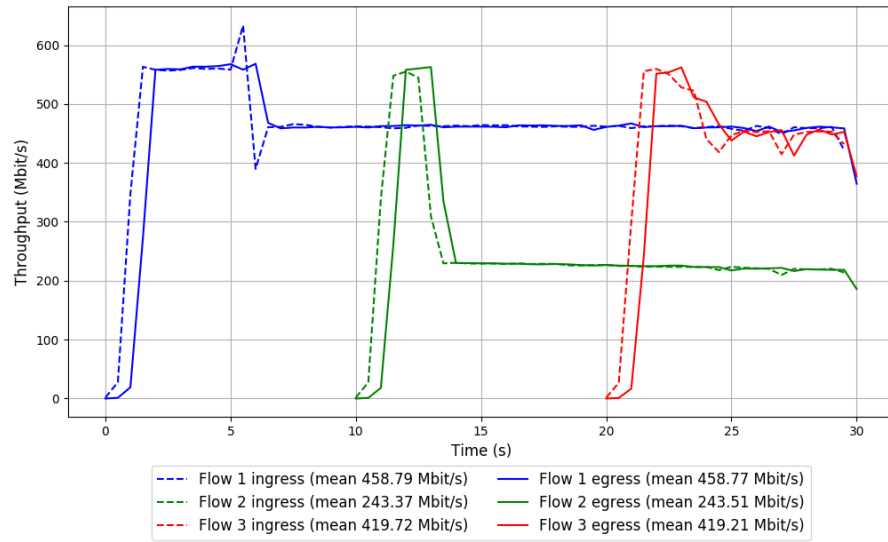


Run 1: Statistics of TCP Vegas

Start at: 2018-11-30 18:43:15
End at: 2018-11-30 18:43:45
Local clock offset: -0.19 ms
Remote clock offset: -0.597 ms

Below is generated by plot.py at 2018-11-30 23:33:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 758.74 Mbit/s
95th percentile per-packet one-way delay: 70.413 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 458.77 Mbit/s
95th percentile per-packet one-way delay: 66.147 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 243.51 Mbit/s
95th percentile per-packet one-way delay: 66.350 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 419.21 Mbit/s
95th percentile per-packet one-way delay: 91.665 ms
Loss rate: 1.39%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-11-30 19:16:26

End at: 2018-11-30 19:16:56

Local clock offset: -0.112 ms

Remote clock offset: 0.485 ms

Below is generated by plot.py at 2018-11-30 23:38:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 1036.90 Mbit/s

95th percentile per-packet one-way delay: 111.165 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 598.23 Mbit/s

95th percentile per-packet one-way delay: 114.125 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 432.26 Mbit/s

95th percentile per-packet one-way delay: 65.776 ms

Loss rate: 0.67%

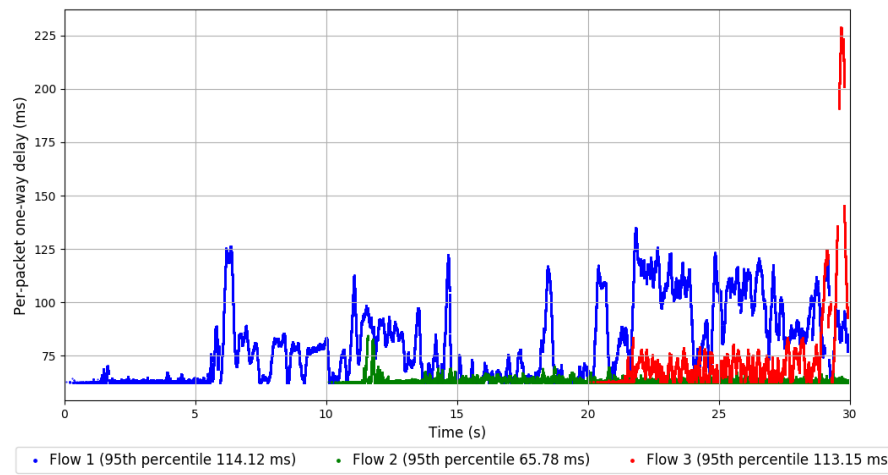
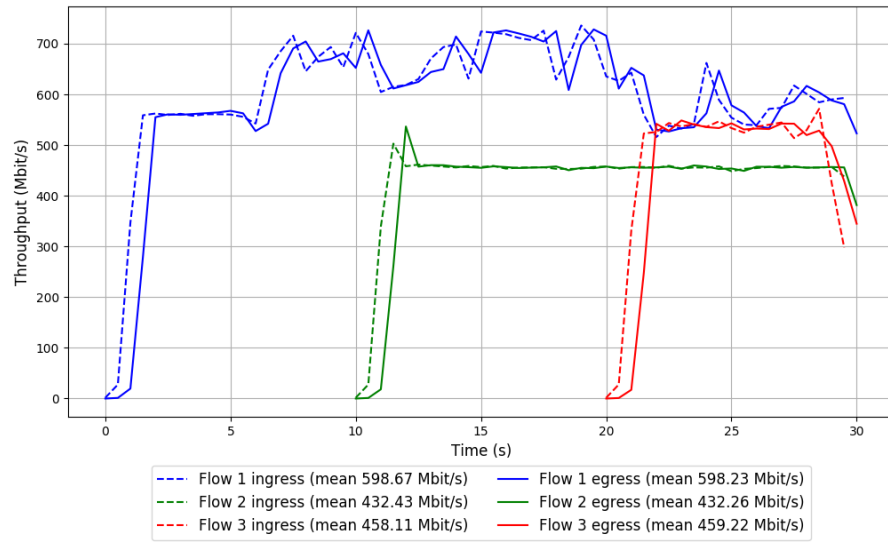
-- Flow 3:

Average throughput: 459.22 Mbit/s

95th percentile per-packet one-way delay: 113.152 ms

Loss rate: 1.03%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-11-30 19:50:02

End at: 2018-11-30 19:50:32

Local clock offset: -0.088 ms

Remote clock offset: 0.111 ms

Below is generated by plot.py at 2018-11-30 23:44:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 1005.08 Mbit/s

95th percentile per-packet one-way delay: 115.814 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 557.22 Mbit/s

95th percentile per-packet one-way delay: 119.712 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 457.54 Mbit/s

95th percentile per-packet one-way delay: 81.213 ms

Loss rate: 0.62%

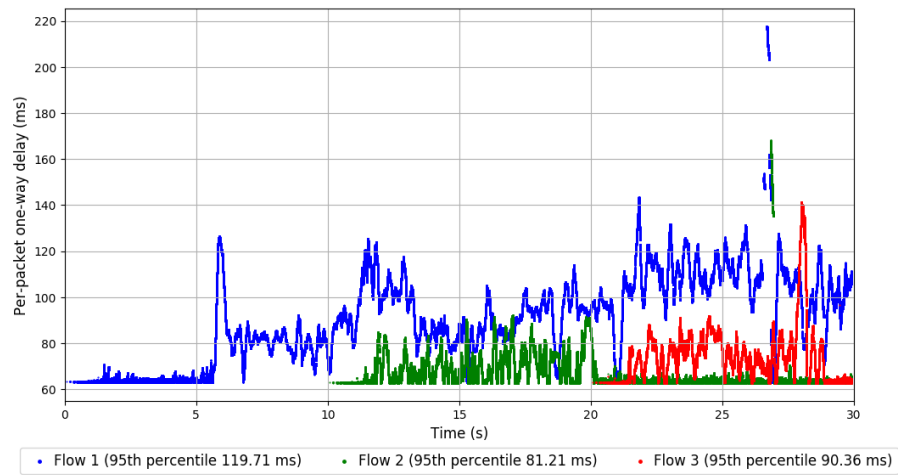
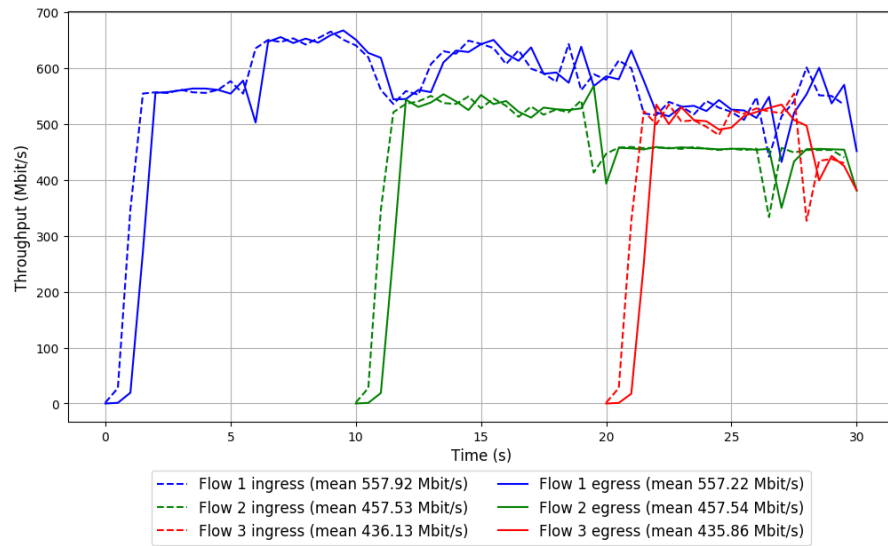
-- Flow 3:

Average throughput: 435.86 Mbit/s

95th percentile per-packet one-way delay: 90.360 ms

Loss rate: 1.32%

Run 3: Report of TCP Vegas — Data Link

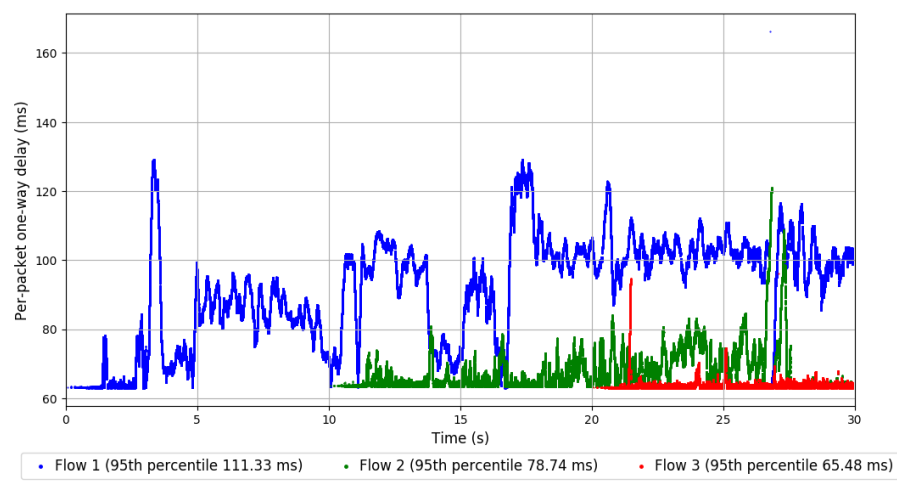
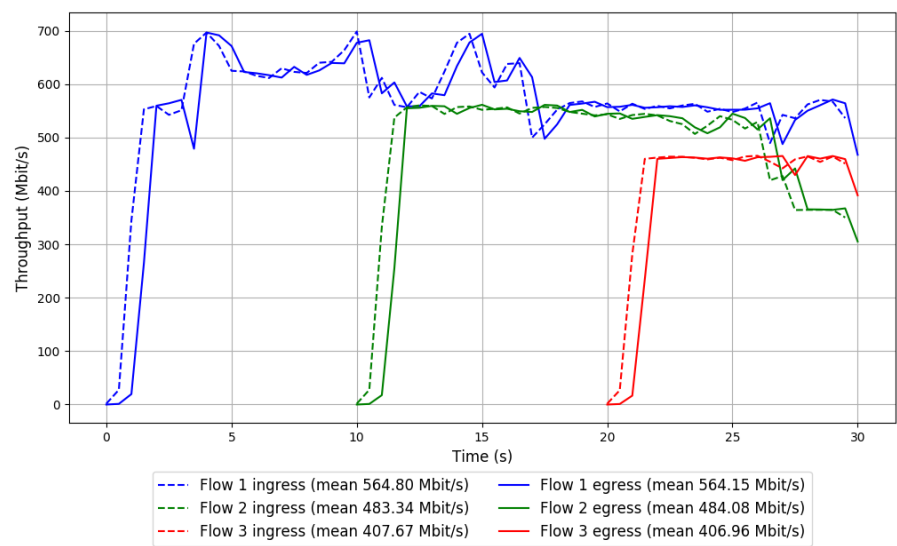


Run 4: Statistics of TCP Vegas

Start at: 2018-11-30 20:23:41
End at: 2018-11-30 20:24:11
Local clock offset: -0.012 ms
Remote clock offset: -0.168 ms

Below is generated by plot.py at 2018-11-30 23:47:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 1019.95 Mbit/s
95th percentile per-packet one-way delay: 107.193 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 564.15 Mbit/s
95th percentile per-packet one-way delay: 111.325 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 484.08 Mbit/s
95th percentile per-packet one-way delay: 78.739 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 406.96 Mbit/s
95th percentile per-packet one-way delay: 65.485 ms
Loss rate: 1.44%

Run 4: Report of TCP Vegas — Data Link

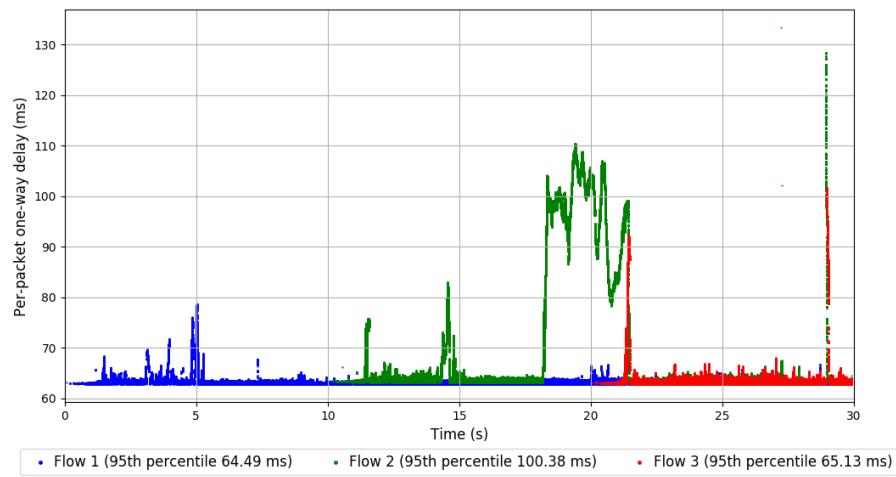
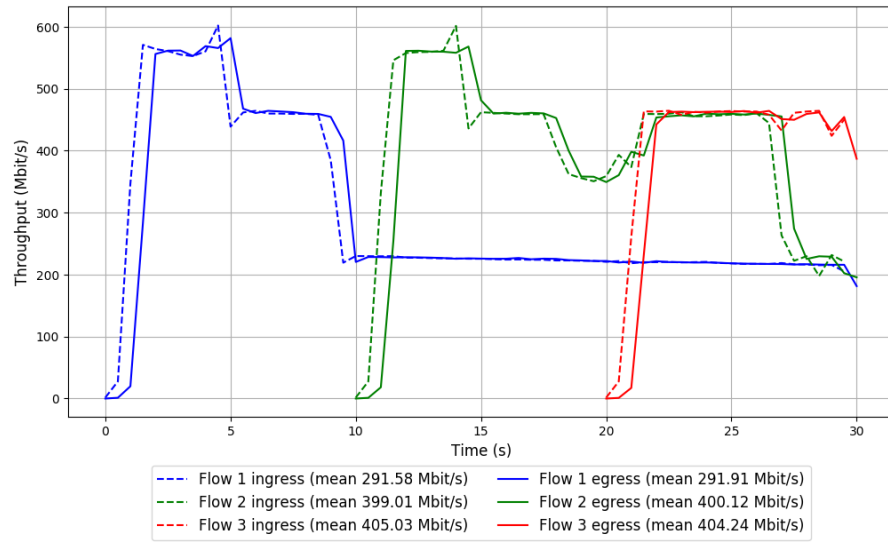


Run 5: Statistics of TCP Vegas

Start at: 2018-11-30 20:56:42
End at: 2018-11-30 20:57:12
Local clock offset: -0.016 ms
Remote clock offset: -0.124 ms

Below is generated by plot.py at 2018-11-30 23:47:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 691.11 Mbit/s
95th percentile per-packet one-way delay: 88.103 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 291.91 Mbit/s
95th percentile per-packet one-way delay: 64.494 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 400.12 Mbit/s
95th percentile per-packet one-way delay: 100.382 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 404.24 Mbit/s
95th percentile per-packet one-way delay: 65.131 ms
Loss rate: 1.46%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-11-30 18:30:13

End at: 2018-11-30 18:30:43

Local clock offset: -0.141 ms

Remote clock offset: 1.371 ms

Below is generated by plot.py at 2018-11-30 23:47:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 332.50 Mbit/s

95th percentile per-packet one-way delay: 231.936 ms

Loss rate: 3.45%

-- Flow 1:

Average throughput: 173.92 Mbit/s

95th percentile per-packet one-way delay: 222.995 ms

Loss rate: 2.55%

-- Flow 2:

Average throughput: 200.66 Mbit/s

95th percentile per-packet one-way delay: 243.213 ms

Loss rate: 4.97%

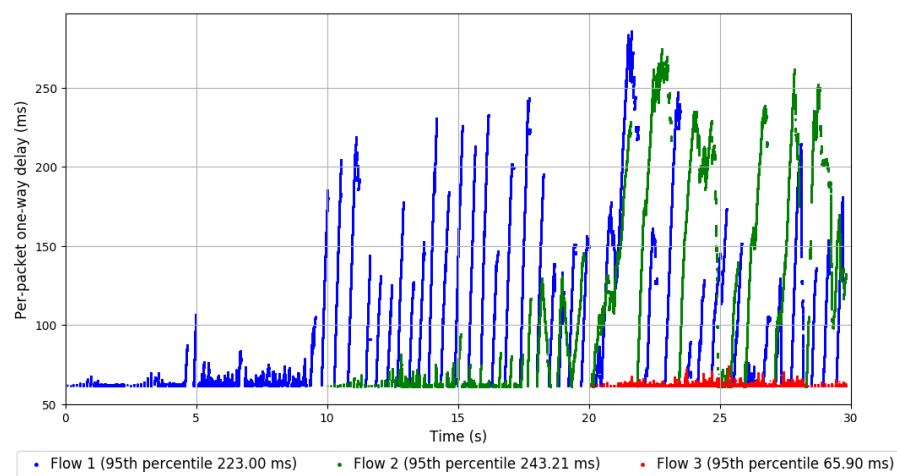
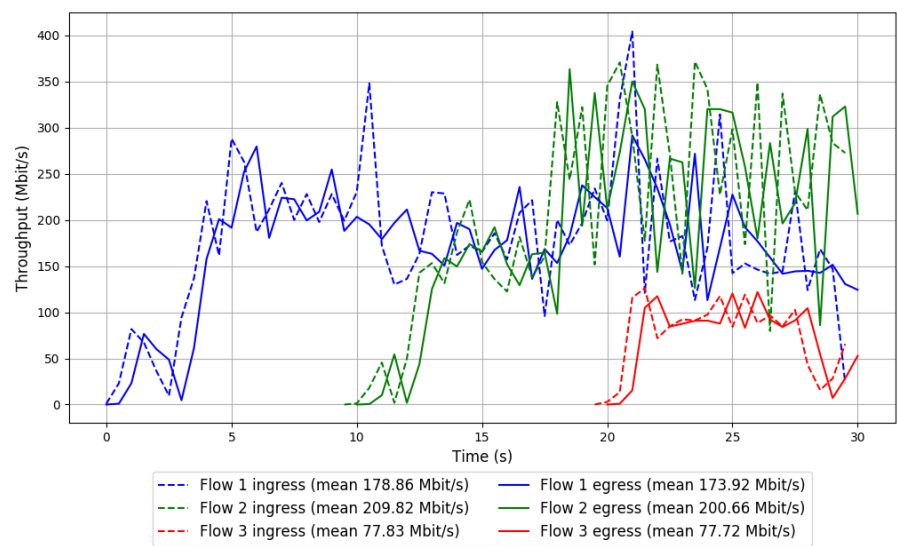
-- Flow 3:

Average throughput: 77.72 Mbit/s

95th percentile per-packet one-way delay: 65.901 ms

Loss rate: 1.40%

Run 1: Report of Verus — Data Link

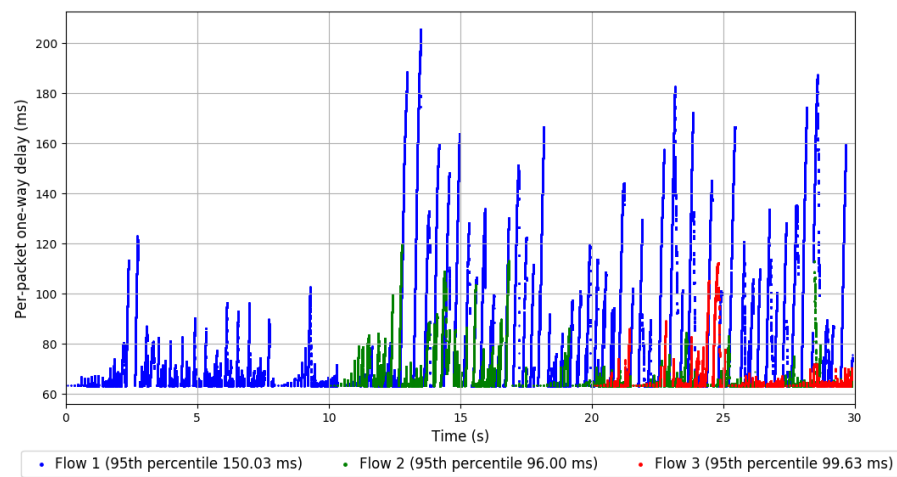
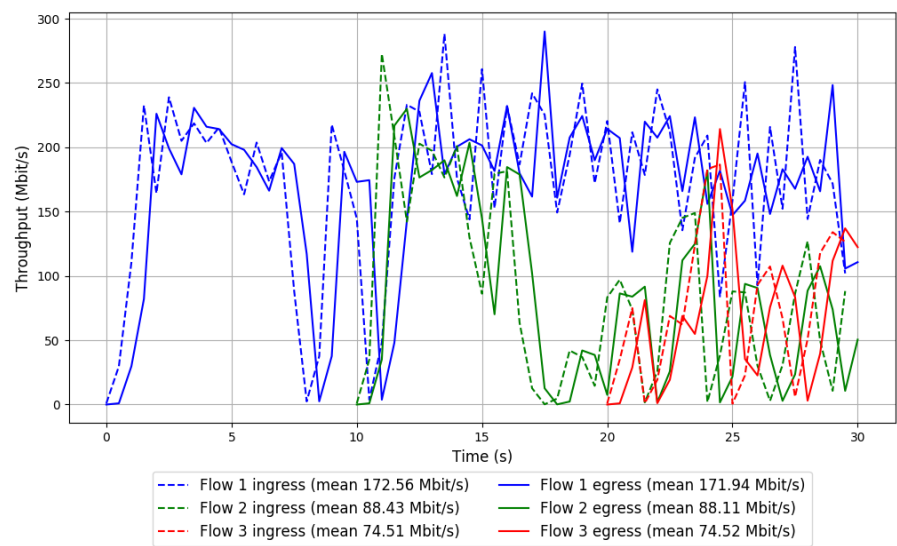


Run 2: Statistics of Verus

Start at: 2018-11-30 19:03:40
End at: 2018-11-30 19:04:10
Local clock offset: -0.198 ms
Remote clock offset: -0.387 ms

Below is generated by plot.py at 2018-11-30 23:47:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 254.92 Mbit/s
95th percentile per-packet one-way delay: 141.466 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 171.94 Mbit/s
95th percentile per-packet one-way delay: 150.028 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 88.11 Mbit/s
95th percentile per-packet one-way delay: 96.004 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 74.52 Mbit/s
95th percentile per-packet one-way delay: 99.628 ms
Loss rate: 1.46%

Run 2: Report of Verus — Data Link

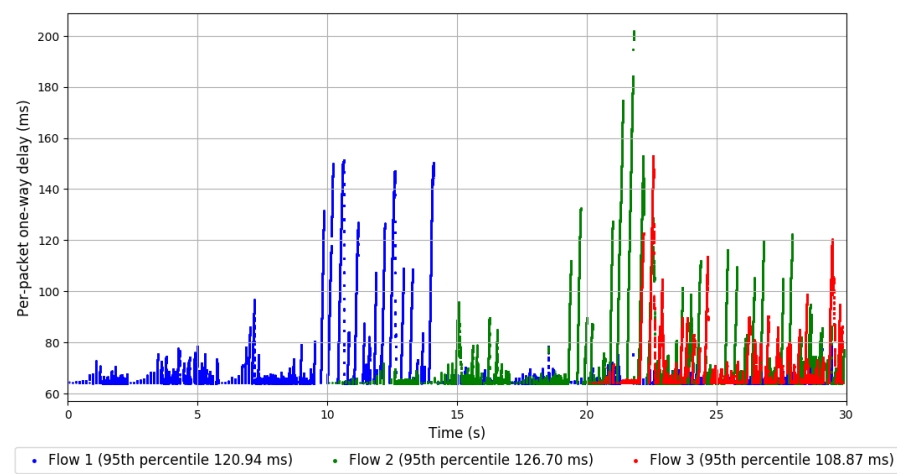
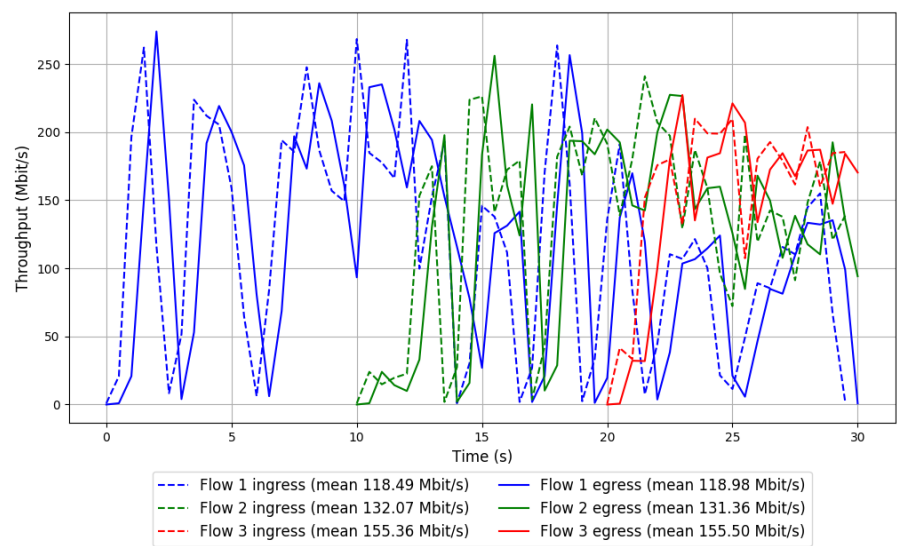


Run 3: Statistics of Verus

Start at: 2018-11-30 19:37:04
End at: 2018-11-30 19:37:34
Local clock offset: -0.066 ms
Remote clock offset: -1.266 ms

Below is generated by plot.py at 2018-11-30 23:47:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 256.84 Mbit/s
95th percentile per-packet one-way delay: 120.003 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 118.98 Mbit/s
95th percentile per-packet one-way delay: 120.938 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 131.36 Mbit/s
95th percentile per-packet one-way delay: 126.698 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 155.50 Mbit/s
95th percentile per-packet one-way delay: 108.867 ms
Loss rate: 1.72%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-11-30 20:10:39

End at: 2018-11-30 20:11:09

Local clock offset: 0.015 ms

Remote clock offset: 1.15 ms

Below is generated by plot.py at 2018-11-30 23:47:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 321.55 Mbit/s

95th percentile per-packet one-way delay: 161.549 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 200.28 Mbit/s

95th percentile per-packet one-way delay: 170.304 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 150.79 Mbit/s

95th percentile per-packet one-way delay: 140.139 ms

Loss rate: 0.36%

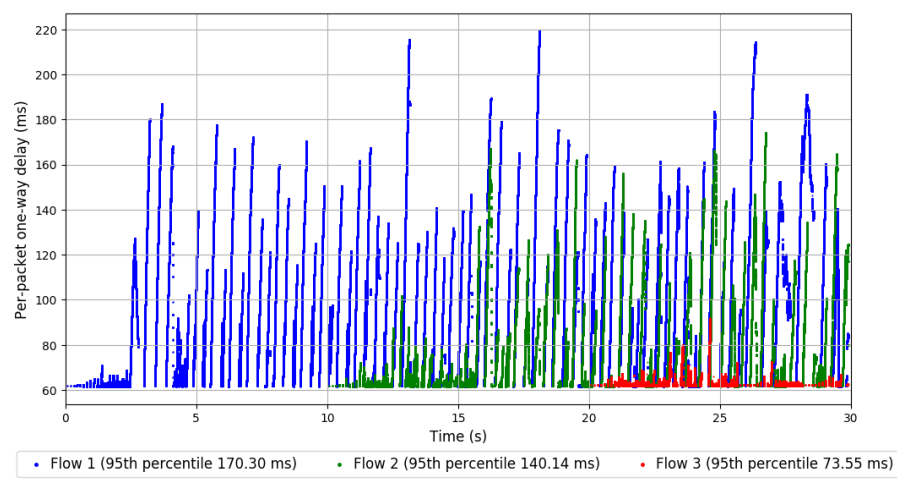
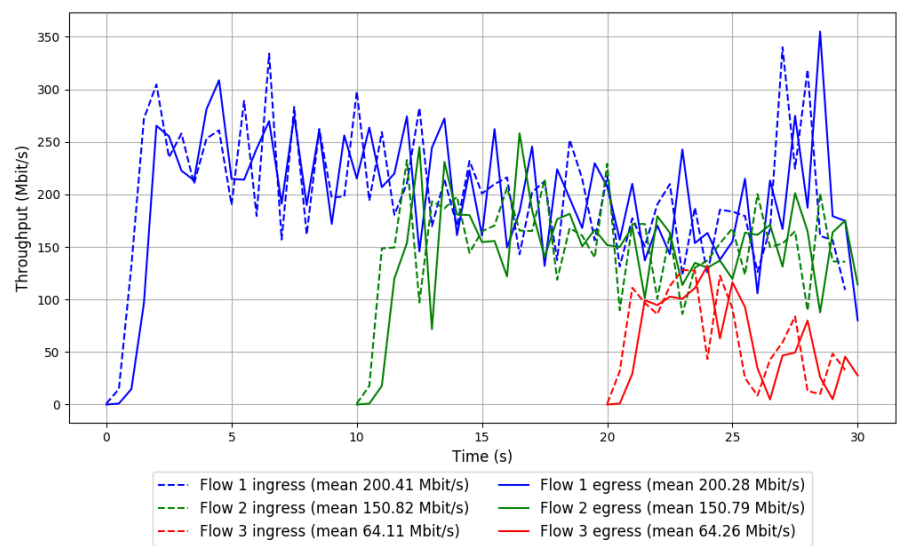
-- Flow 3:

Average throughput: 64.26 Mbit/s

95th percentile per-packet one-way delay: 73.546 ms

Loss rate: 1.05%

Run 4: Report of Verus — Data Link

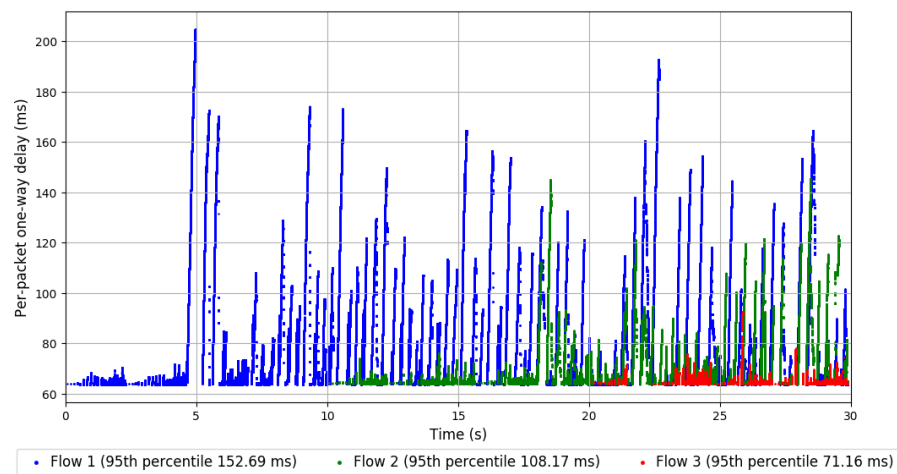
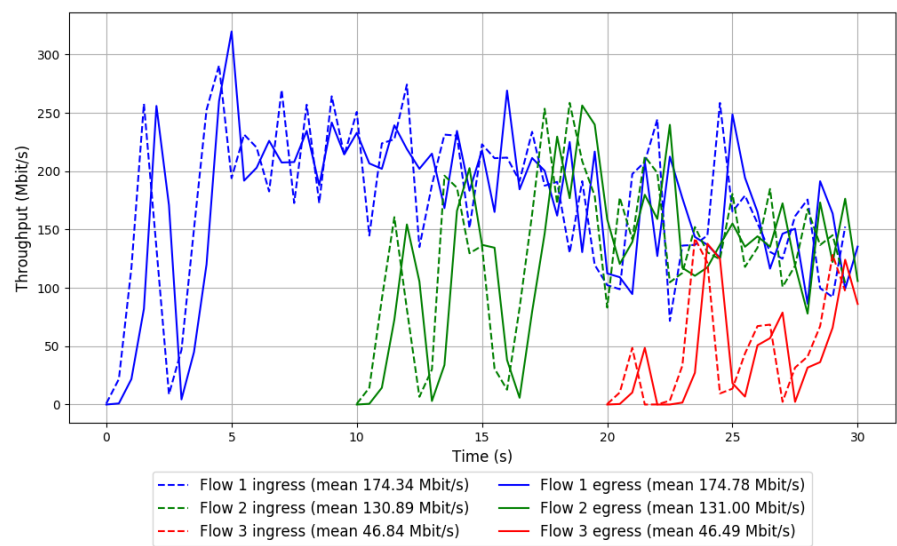


Run 5: Statistics of Verus

Start at: 2018-11-30 20:44:23
End at: 2018-11-30 20:44:53
Local clock offset: 0.028 ms
Remote clock offset: -0.766 ms

Below is generated by plot.py at 2018-11-30 23:47:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 277.08 Mbit/s
95th percentile per-packet one-way delay: 143.718 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 174.78 Mbit/s
95th percentile per-packet one-way delay: 152.687 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 131.00 Mbit/s
95th percentile per-packet one-way delay: 108.171 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 46.49 Mbit/s
95th percentile per-packet one-way delay: 71.161 ms
Loss rate: 2.28%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-11-30 18:45:07

End at: 2018-11-30 18:45:37

Local clock offset: -0.181 ms

Remote clock offset: -0.53 ms

Below is generated by plot.py at 2018-11-30 23:49:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 617.14 Mbit/s

95th percentile per-packet one-way delay: 75.339 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 338.66 Mbit/s

95th percentile per-packet one-way delay: 67.499 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 279.87 Mbit/s

95th percentile per-packet one-way delay: 65.265 ms

Loss rate: 0.49%

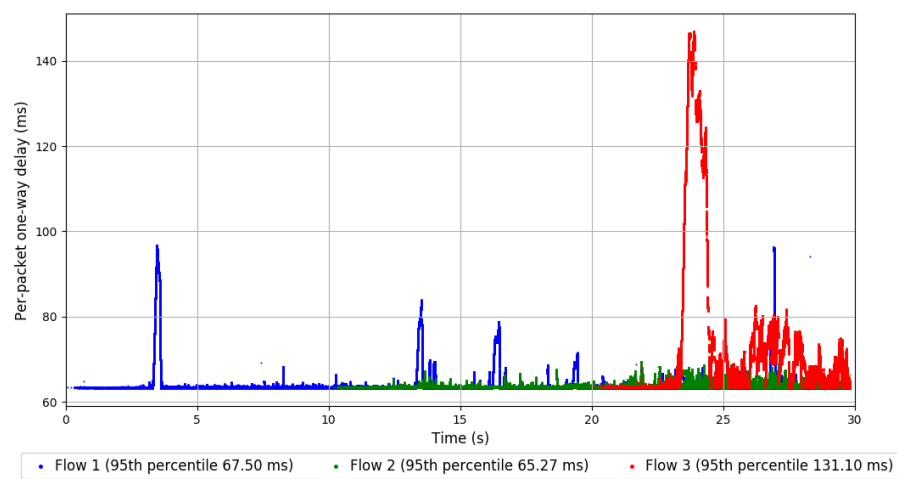
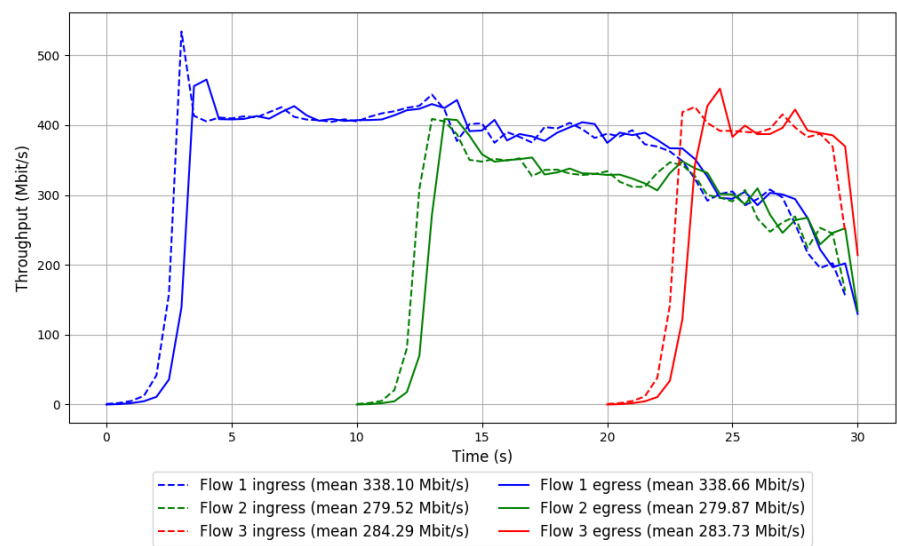
-- Flow 3:

Average throughput: 283.73 Mbit/s

95th percentile per-packet one-way delay: 131.103 ms

Loss rate: 1.49%

Run 1: Report of PCC-Vivace — Data Link

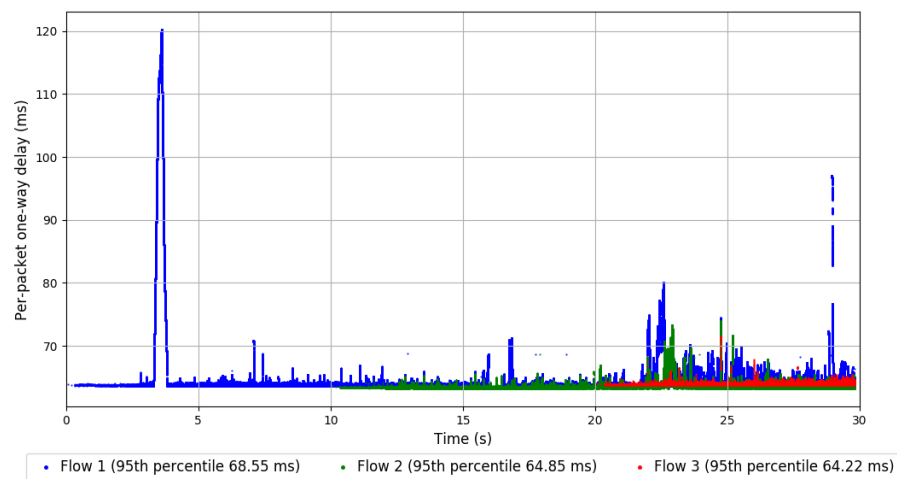
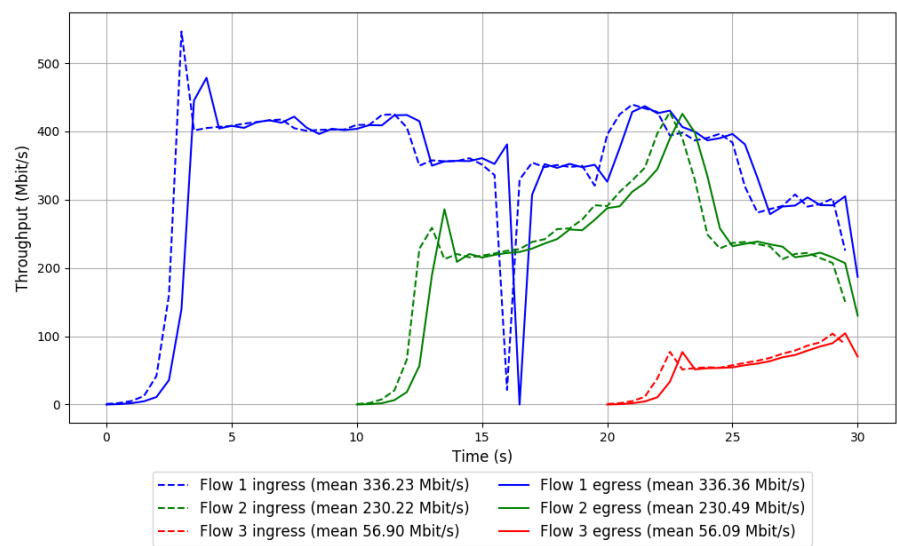


Run 2: Statistics of PCC-Vivace

Start at: 2018-11-30 19:18:32
End at: 2018-11-30 19:19:02
Local clock offset: -0.115 ms
Remote clock offset: -0.516 ms

Below is generated by plot.py at 2018-11-30 23:49:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 507.65 Mbit/s
95th percentile per-packet one-way delay: 67.126 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 336.36 Mbit/s
95th percentile per-packet one-way delay: 68.549 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 230.49 Mbit/s
95th percentile per-packet one-way delay: 64.848 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 56.09 Mbit/s
95th percentile per-packet one-way delay: 64.217 ms
Loss rate: 2.70%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-11-30 19:52:06

End at: 2018-11-30 19:52:36

Local clock offset: -0.065 ms

Remote clock offset: 1.234 ms

Below is generated by plot.py at 2018-11-30 23:49:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 552.86 Mbit/s

95th percentile per-packet one-way delay: 138.020 ms

Loss rate: 2.42%

-- Flow 1:

Average throughput: 315.33 Mbit/s

95th percentile per-packet one-way delay: 126.260 ms

Loss rate: 2.78%

-- Flow 2:

Average throughput: 268.57 Mbit/s

95th percentile per-packet one-way delay: 210.596 ms

Loss rate: 2.05%

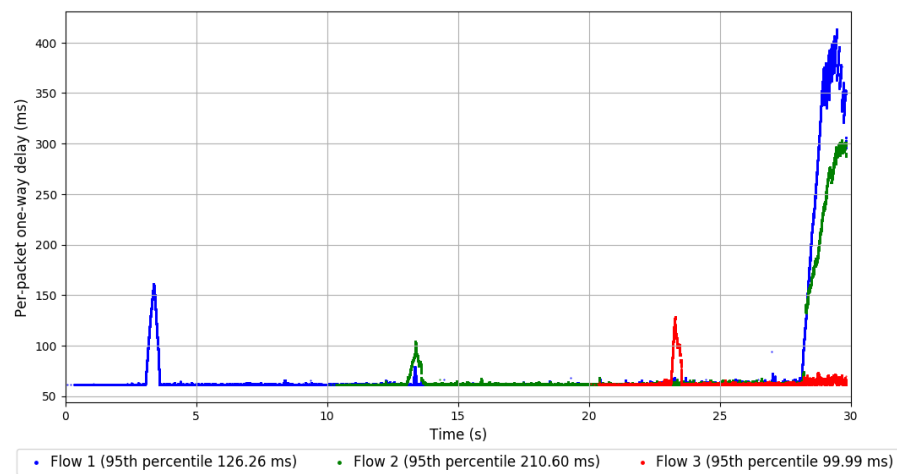
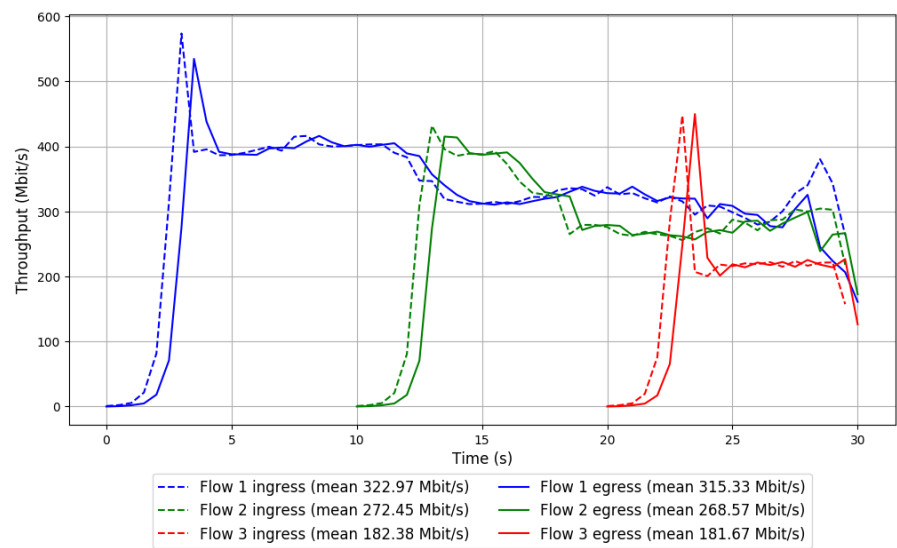
-- Flow 3:

Average throughput: 181.67 Mbit/s

95th percentile per-packet one-way delay: 99.993 ms

Loss rate: 1.58%

Run 3: Report of PCC-Vivace — Data Link

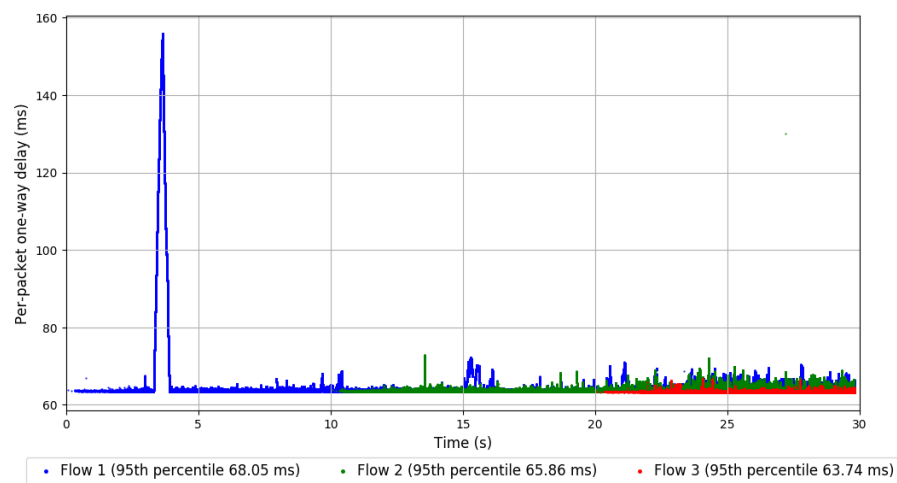
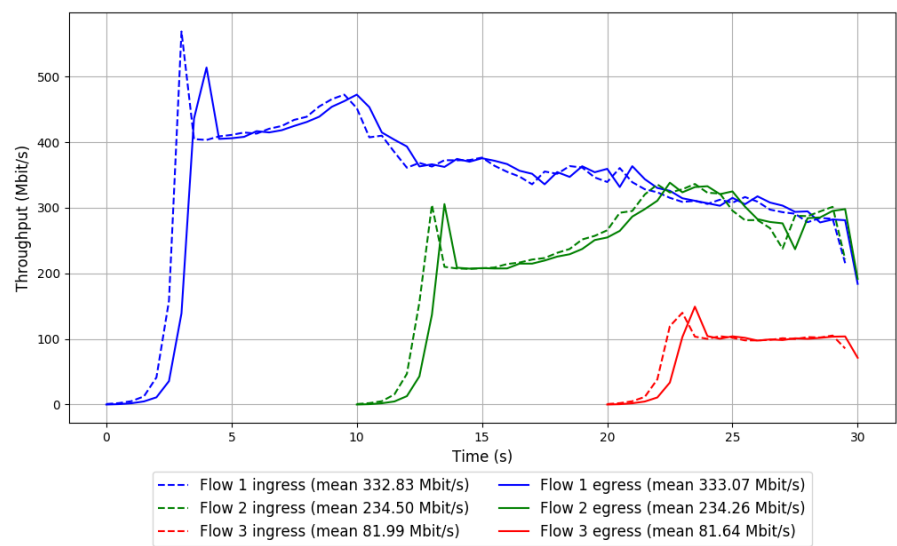


Run 4: Statistics of PCC-Vivace

Start at: 2018-11-30 20:25:47
End at: 2018-11-30 20:26:17
Local clock offset: 0.037 ms
Remote clock offset: -0.119 ms

Below is generated by plot.py at 2018-11-30 23:49:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 515.24 Mbit/s
95th percentile per-packet one-way delay: 66.749 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 333.07 Mbit/s
95th percentile per-packet one-way delay: 68.051 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 234.26 Mbit/s
95th percentile per-packet one-way delay: 65.858 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 81.64 Mbit/s
95th percentile per-packet one-way delay: 63.740 ms
Loss rate: 1.71%

Run 4: Report of PCC-Vivace — Data Link

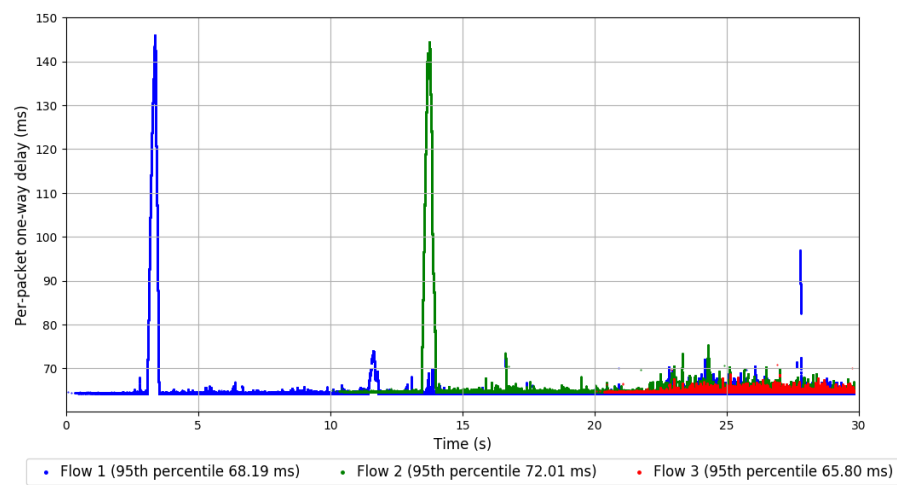
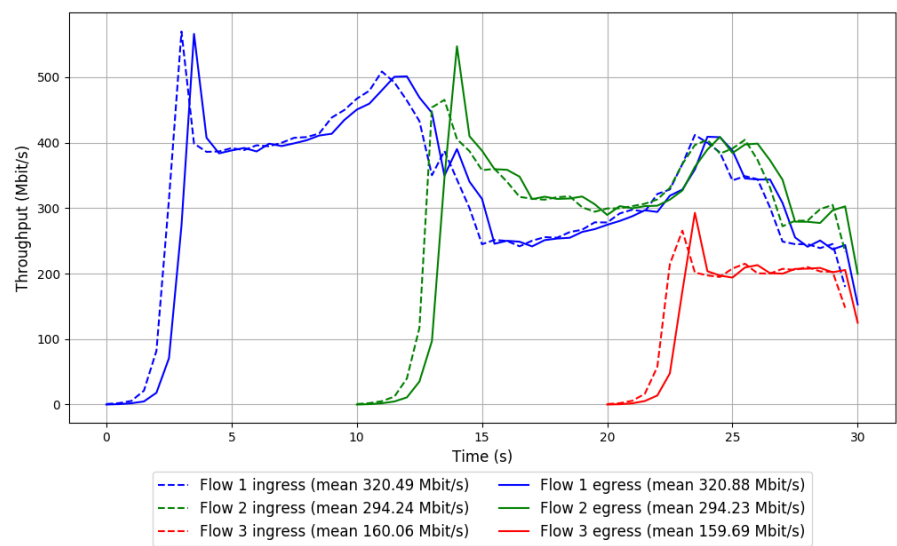


Run 5: Statistics of PCC-Vivace

Start at: 2018-11-30 20:58:32
End at: 2018-11-30 20:59:02
Local clock offset: 0.002 ms
Remote clock offset: -1.495 ms

Below is generated by plot.py at 2018-11-30 23:50:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 568.37 Mbit/s
95th percentile per-packet one-way delay: 68.319 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 320.88 Mbit/s
95th percentile per-packet one-way delay: 68.194 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 294.23 Mbit/s
95th percentile per-packet one-way delay: 72.009 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 159.69 Mbit/s
95th percentile per-packet one-way delay: 65.796 ms
Loss rate: 1.51%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-11-30 18:35:55

End at: 2018-11-30 18:36:25

Local clock offset: -0.183 ms

Remote clock offset: 0.193 ms

Below is generated by plot.py at 2018-11-30 23:50:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.55 Mbit/s

95th percentile per-packet one-way delay: 62.824 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 1.05 Mbit/s

95th percentile per-packet one-way delay: 62.790 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 62.981 ms

Loss rate: 0.67%

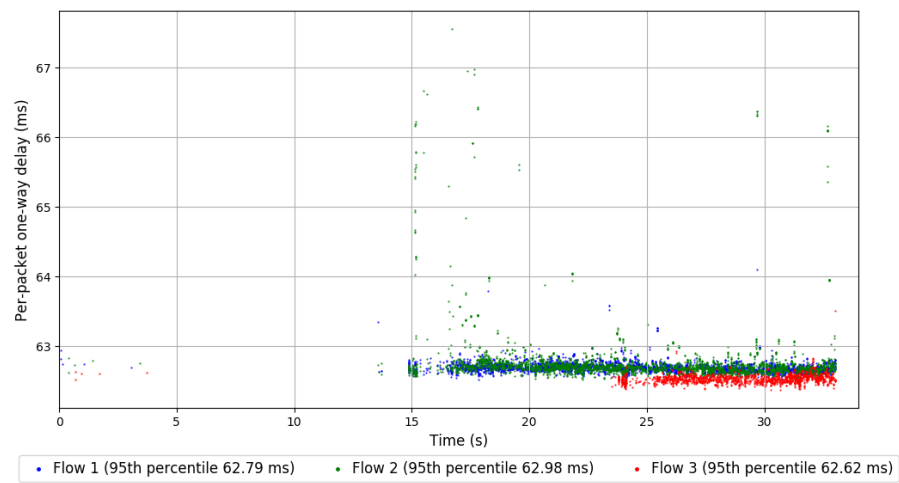
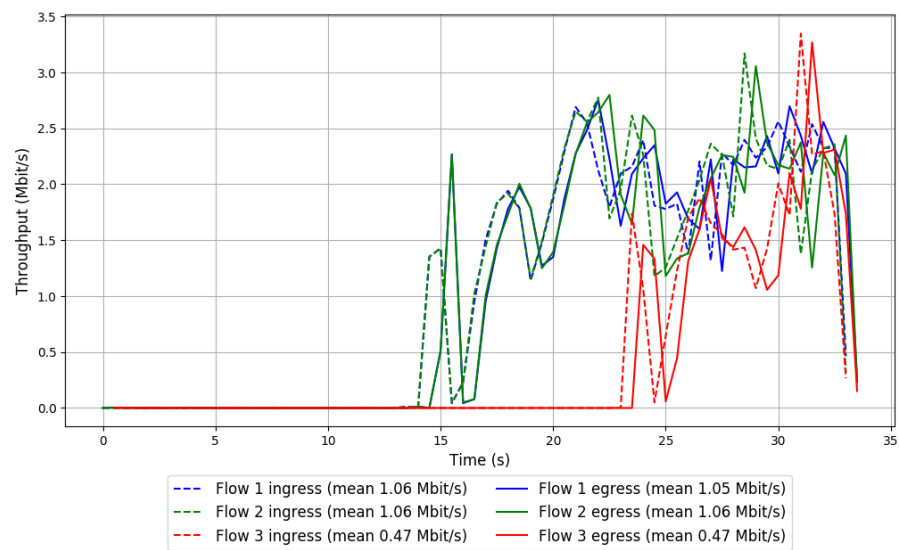
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 62.617 ms

Loss rate: 1.25%

Run 1: Report of WebRTC media — Data Link

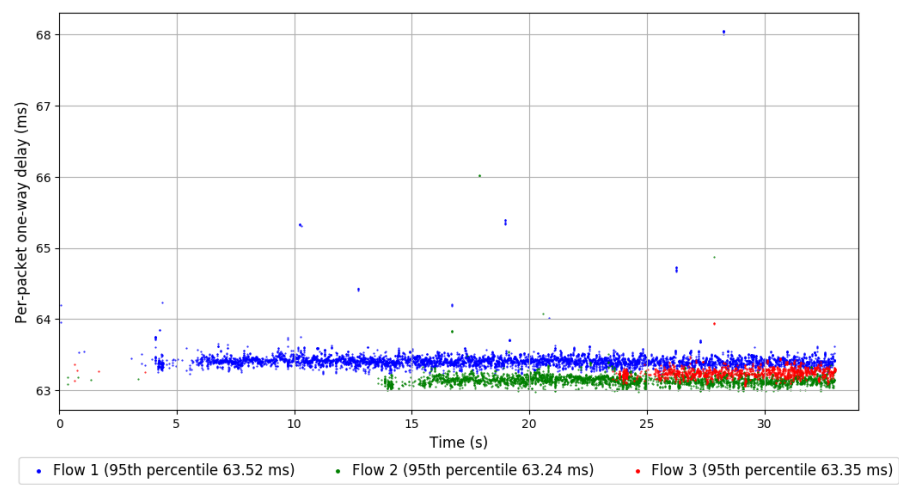
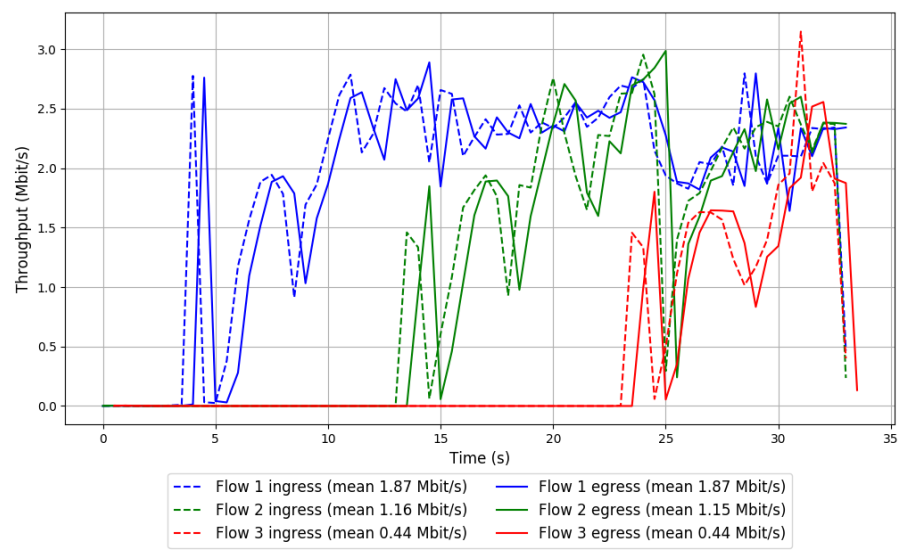


Run 2: Statistics of WebRTC media

Start at: 2018-11-30 19:09:09
End at: 2018-11-30 19:09:39
Local clock offset: -0.18 ms
Remote clock offset: -0.175 ms

Below is generated by plot.py at 2018-11-30 23:50:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.44 Mbit/s
95th percentile per-packet one-way delay: 63.490 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 1.87 Mbit/s
95th percentile per-packet one-way delay: 63.515 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 1.15 Mbit/s
95th percentile per-packet one-way delay: 63.238 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.353 ms
Loss rate: 1.86%

Run 2: Report of WebRTC media — Data Link

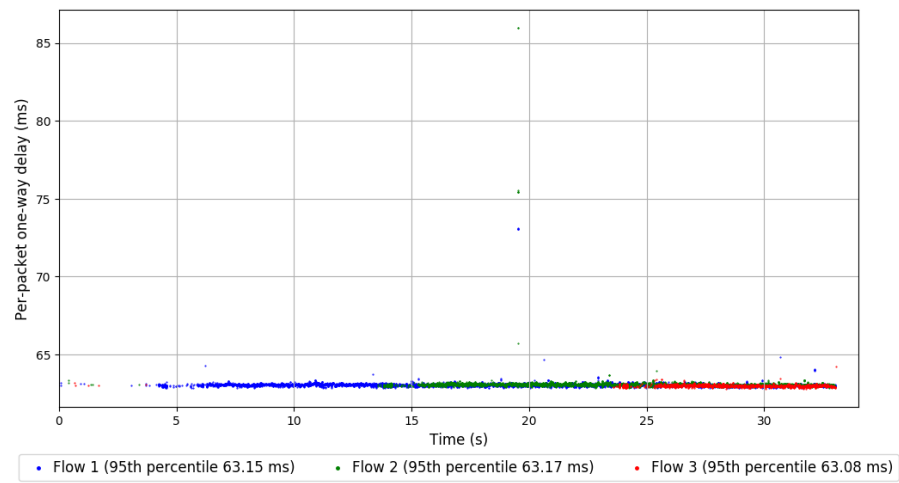
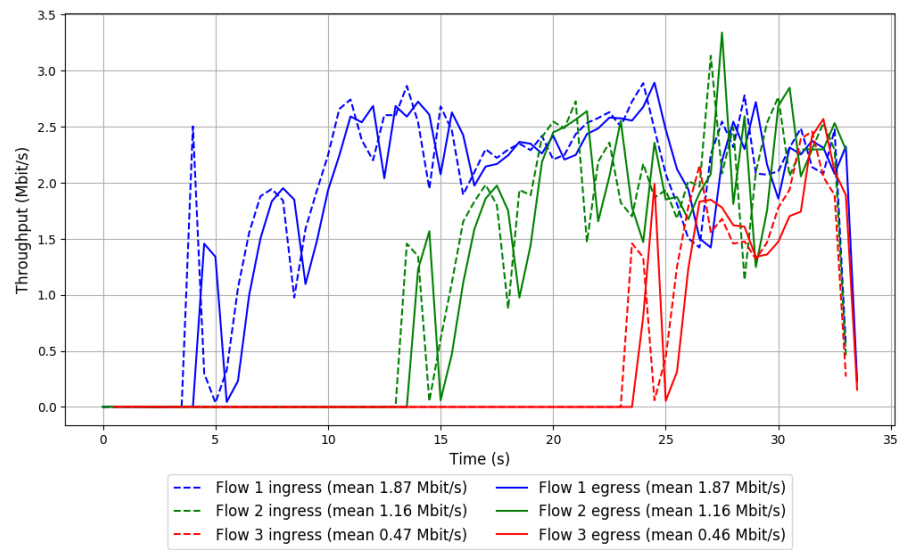


Run 3: Statistics of WebRTC media

Start at: 2018-11-30 19:42:38
End at: 2018-11-30 19:43:08
Local clock offset: -0.078 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2018-11-30 23:50:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.46 Mbit/s
95th percentile per-packet one-way delay: 63.152 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 1.87 Mbit/s
95th percentile per-packet one-way delay: 63.149 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 1.16 Mbit/s
95th percentile per-packet one-way delay: 63.167 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 63.083 ms
Loss rate: 1.28%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-11-30 20:16:19

End at: 2018-11-30 20:16:49

Local clock offset: -0.009 ms

Remote clock offset: 0.675 ms

Below is generated by plot.py at 2018-11-30 23:50:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.50 Mbit/s

95th percentile per-packet one-way delay: 62.668 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 62.697 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 1.17 Mbit/s

95th percentile per-packet one-way delay: 62.565 ms

Loss rate: 0.92%

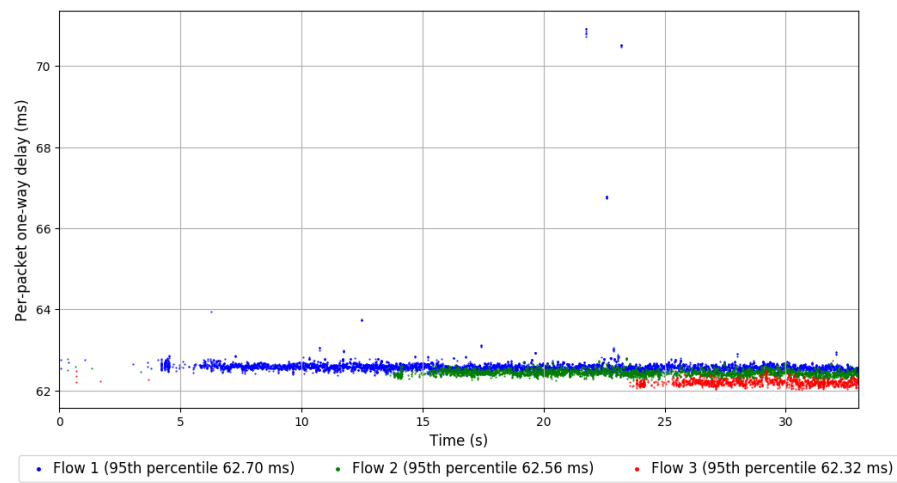
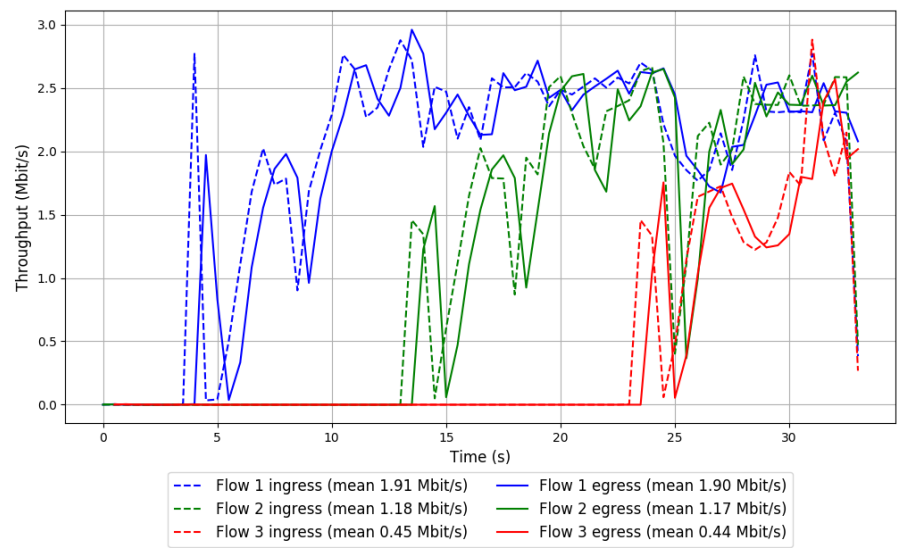
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 62.321 ms

Loss rate: 1.85%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-11-30 20:49:36
End at: 2018-11-30 20:50:06
Local clock offset: 0.007 ms
Remote clock offset: -0.723 ms

Below is generated by plot.py at 2018-11-30 23:50:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.44 Mbit/s
95th percentile per-packet one-way delay: 64.267 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 63.831 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 1.14 Mbit/s
95th percentile per-packet one-way delay: 64.331 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.781 ms
Loss rate: 1.86%

Run 5: Report of WebRTC media — Data Link

