

Pantheon Report

Generated at 2018-05-25 18:40:46 (UTC).

Data path: Stanford Ethernet (*remote*) → AWS California 1 Ethernet (*local*).

Repeated the test of 16 congestion control schemes 10 times.

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

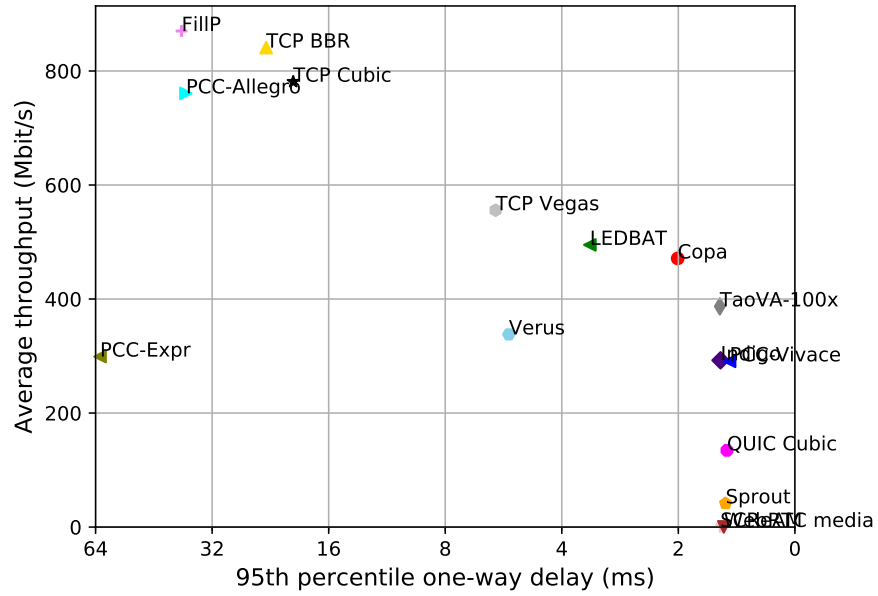
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

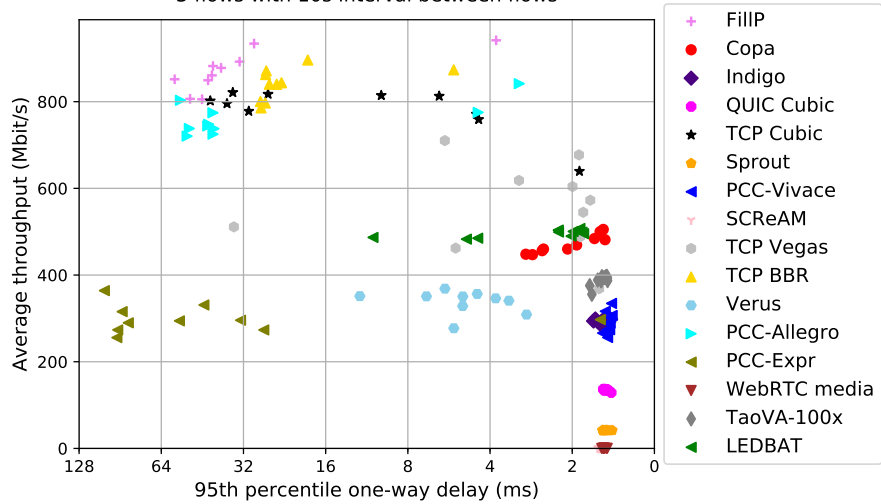
Git summary:

```
branch: master @ 0088822873ea99180f63545a341ef069f40efe59
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from Stanford to AWS California 1, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from Stanford to AWS California 1, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	471.14	392.82	326.21	21.87	14.02	5.26	0.07	0.11	0.24
Copa	10	283.96	217.06	129.05	2.30	1.83	1.34	0.03	0.07	0.17
TCP Cubic	10	425.26	374.49	321.01	14.28	11.37	4.35	0.06	0.10	0.22
FillP	10	514.59	385.32	300.22	40.02	14.49	4.49	2.54	0.22	0.25
Indigo	10	153.67	151.27	117.09	1.31	1.28	1.28	0.05	0.09	0.22
LEDBAT	10	289.03	228.65	164.86	3.18	2.56	2.39	0.04	0.09	0.32
PCC-Allegro	10	532.05	285.07	120.03	39.26	3.00	2.24	3.99	0.08	0.23
PCC-Expr	10	209.77	100.83	67.43	69.87	1.87	1.48	2.56	0.08	0.21
QUIC Cubic	10	73.69	65.28	52.93	1.16	1.17	1.17	0.05	0.10	0.24
SCReAM	10	0.22	0.22	0.22	1.28	1.27	1.28	0.09	0.19	0.32
Sprout	10	20.96	20.76	20.88	1.19	1.18	1.18	0.07	0.14	0.38
TaoVA-100x	10	221.94	190.88	114.88	1.19	1.44	1.90	0.03	0.06	0.18
TCP Vegas	10	276.95	299.86	238.55	5.96	2.44	2.11	0.05	0.09	0.20
Verus	10	206.69	146.87	103.42	6.63	3.56	2.41	0.20	0.09	0.23
PCC-Vivace	10	202.88	101.19	62.34	1.17	1.10	1.10	0.03	0.11	0.23
WebRTC media	10	0.05	0.08	0.05	1.20	1.21	1.24	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-05-25 12:21:14

End at: 2018-05-25 12:21:44

Local clock offset: 0.159 ms

Remote clock offset: 0.134 ms

Below is generated by plot.py at 2018-05-25 16:47:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 873.40 Mbit/s

95th percentile per-packet one-way delay: 5.435 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 506.62 Mbit/s

95th percentile per-packet one-way delay: 4.979 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 390.19 Mbit/s

95th percentile per-packet one-way delay: 5.453 ms

Loss rate: 0.16%

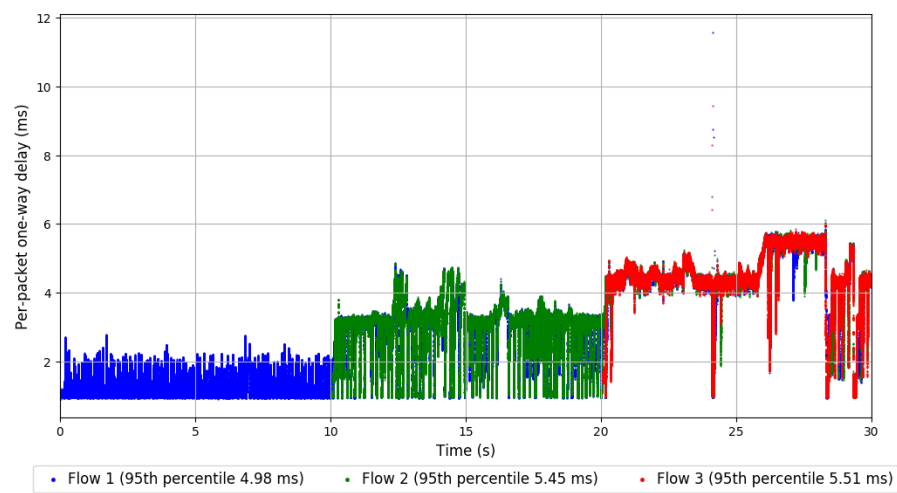
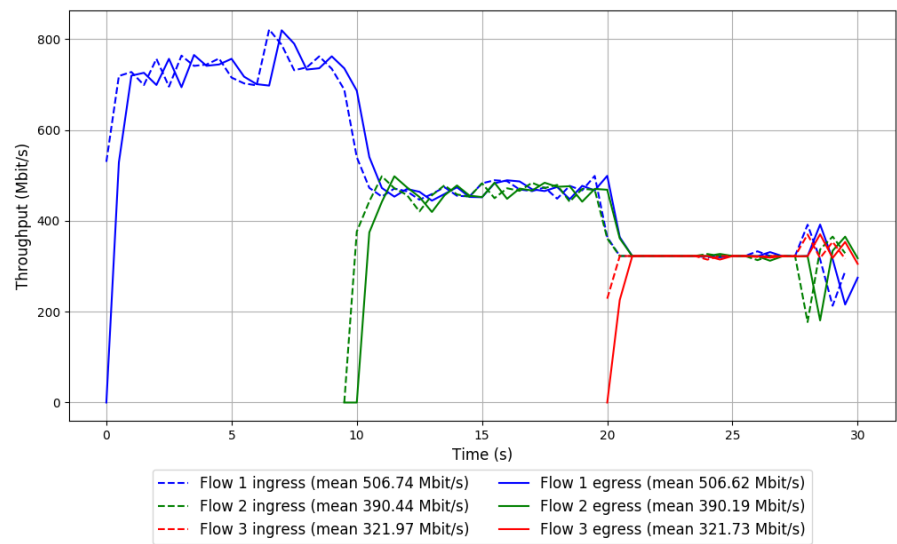
-- Flow 3:

Average throughput: 321.73 Mbit/s

95th percentile per-packet one-way delay: 5.514 ms

Loss rate: 0.26%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-05-25 12:46:43

End at: 2018-05-25 12:47:13

Local clock offset: 0.079 ms

Remote clock offset: 0.391 ms

Below is generated by plot.py at 2018-05-25 16:47:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 871.02 Mbit/s

95th percentile per-packet one-way delay: 26.396 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 510.46 Mbit/s

95th percentile per-packet one-way delay: 4.337 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 376.69 Mbit/s

95th percentile per-packet one-way delay: 29.422 ms

Loss rate: 0.21%

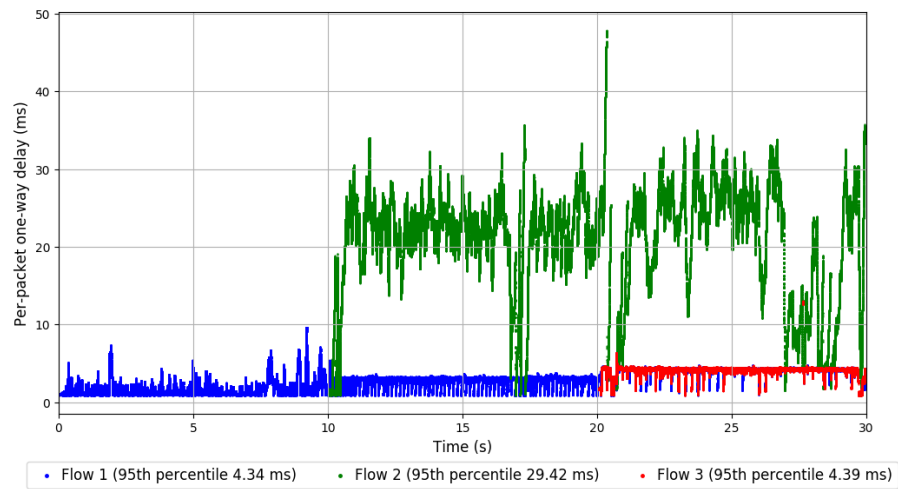
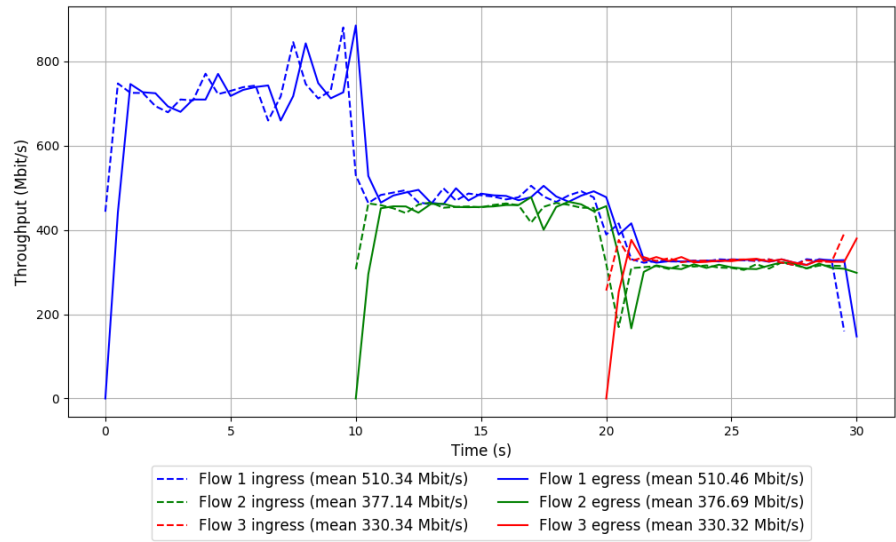
-- Flow 3:

Average throughput: 330.32 Mbit/s

95th percentile per-packet one-way delay: 4.395 ms

Loss rate: 0.22%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-05-25 13:12:24

End at: 2018-05-25 13:12:54

Local clock offset: 0.392 ms

Remote clock offset: 0.091 ms

Below is generated by plot.py at 2018-05-25 16:47:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 840.32 Mbit/s

95th percentile per-packet one-way delay: 25.721 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 470.40 Mbit/s

95th percentile per-packet one-way delay: 26.978 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 394.65 Mbit/s

95th percentile per-packet one-way delay: 22.309 ms

Loss rate: 0.09%

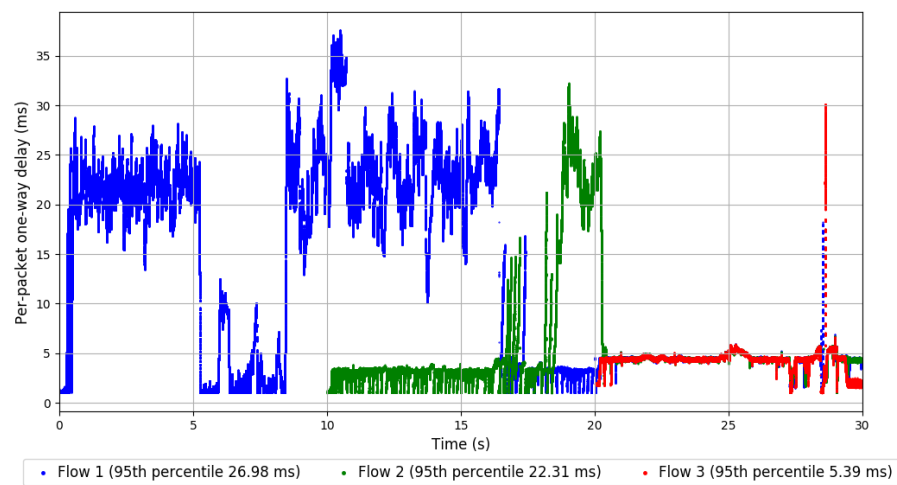
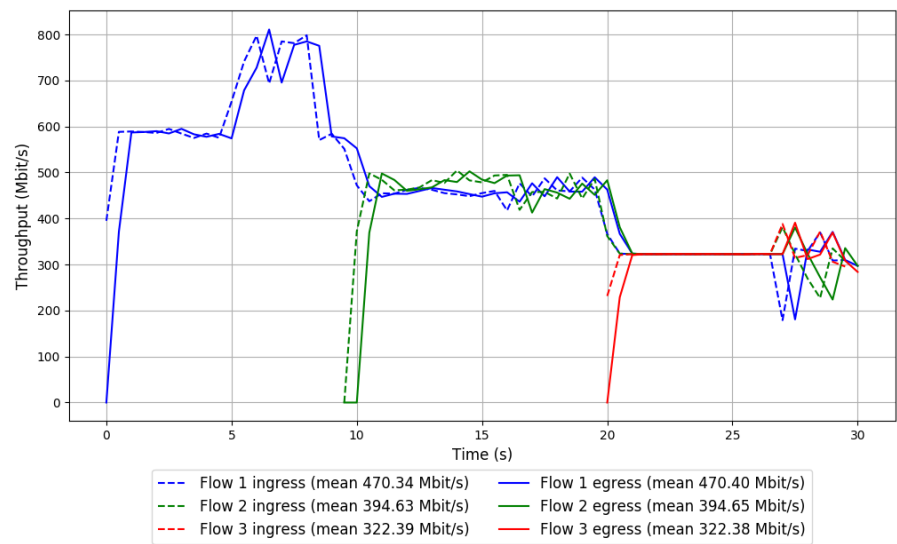
-- Flow 3:

Average throughput: 322.38 Mbit/s

95th percentile per-packet one-way delay: 5.394 ms

Loss rate: 0.21%

Run 3: Report of TCP BBR — Data Link

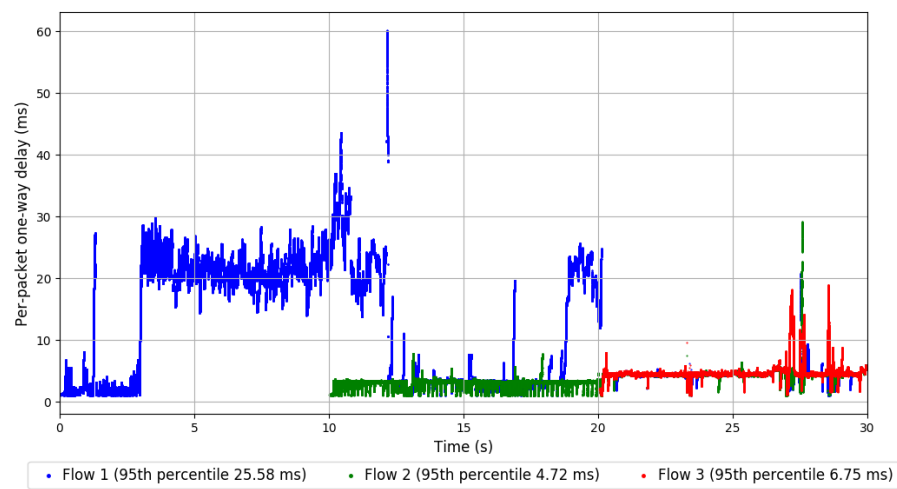
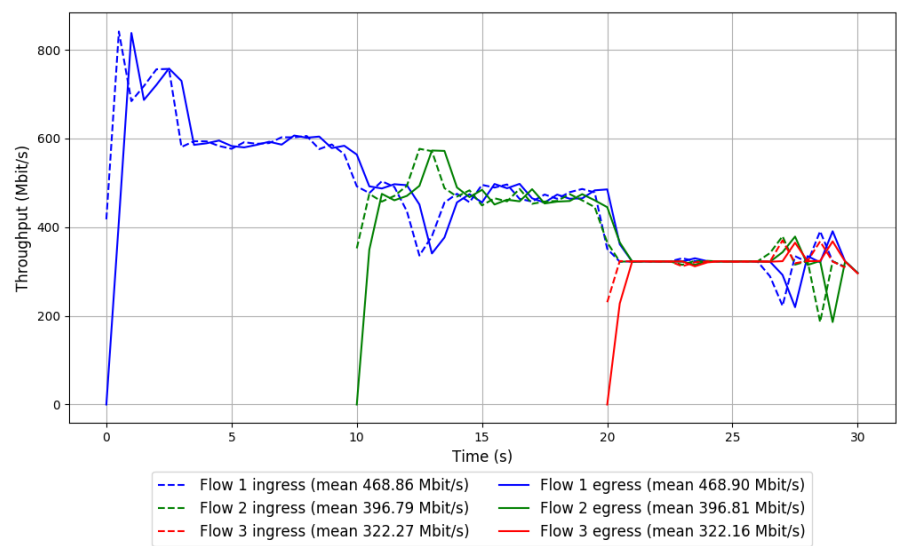


Run 4: Statistics of TCP BBR

Start at: 2018-05-25 13:37:54
End at: 2018-05-25 13:38:24
Local clock offset: 0.242 ms
Remote clock offset: -0.311 ms

Below is generated by plot.py at 2018-05-25 16:47:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 840.13 Mbit/s
95th percentile per-packet one-way delay: 24.178 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 468.90 Mbit/s
95th percentile per-packet one-way delay: 25.579 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 396.81 Mbit/s
95th percentile per-packet one-way delay: 4.725 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 322.16 Mbit/s
95th percentile per-packet one-way delay: 6.747 ms
Loss rate: 0.26%

Run 4: Report of TCP BBR — Data Link

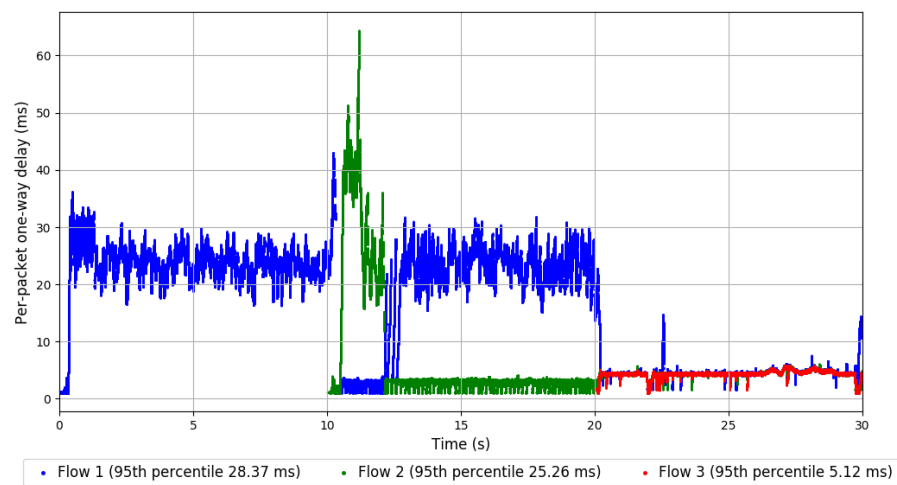
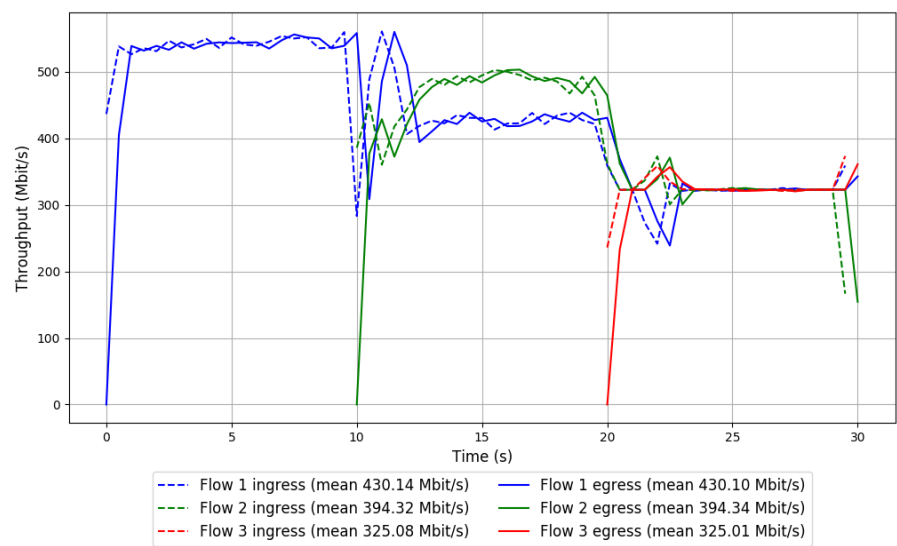


Run 5: Statistics of TCP BBR

Start at: 2018-05-25 14:03:17
End at: 2018-05-25 14:03:47
Local clock offset: -0.009 ms
Remote clock offset: -0.243 ms

Below is generated by plot.py at 2018-05-25 16:47:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 800.49 Mbit/s
95th percentile per-packet one-way delay: 27.729 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 430.10 Mbit/s
95th percentile per-packet one-way delay: 28.367 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 394.34 Mbit/s
95th percentile per-packet one-way delay: 25.264 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 325.01 Mbit/s
95th percentile per-packet one-way delay: 5.119 ms
Loss rate: 0.24%

Run 5: Report of TCP BBR — Data Link

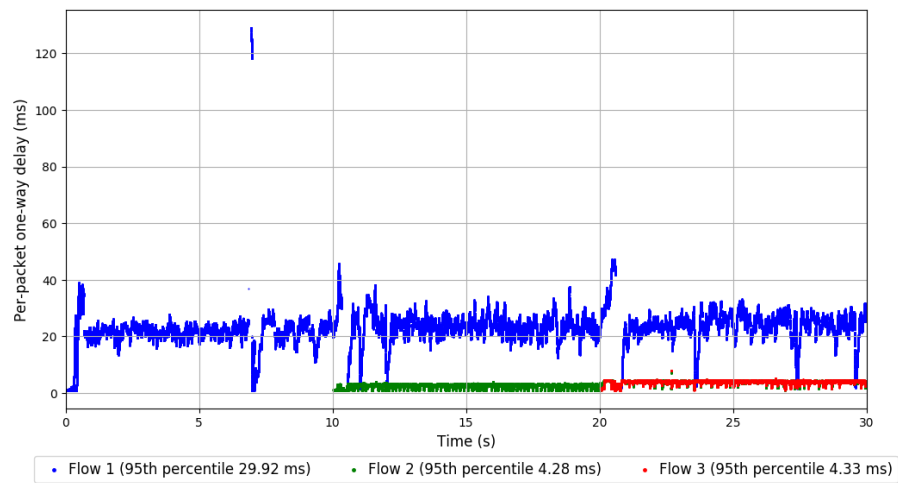
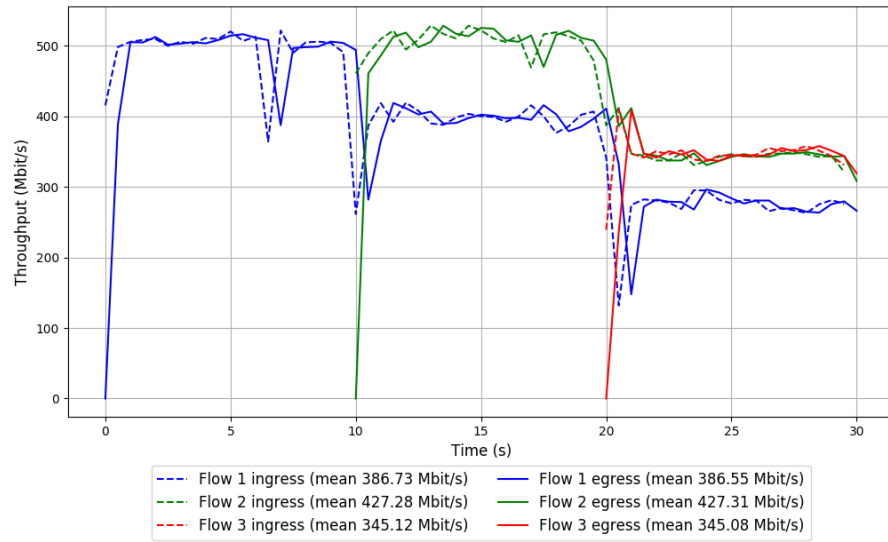


Run 6: Statistics of TCP BBR

Start at: 2018-05-25 14:28:37
End at: 2018-05-25 14:29:07
Local clock offset: -0.053 ms
Remote clock offset: -0.062 ms

Below is generated by plot.py at 2018-05-25 16:47:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 785.68 Mbit/s
95th percentile per-packet one-way delay: 27.595 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 386.55 Mbit/s
95th percentile per-packet one-way delay: 29.921 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 427.31 Mbit/s
95th percentile per-packet one-way delay: 4.282 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 345.08 Mbit/s
95th percentile per-packet one-way delay: 4.327 ms
Loss rate: 0.21%

Run 6: Report of TCP BBR — Data Link

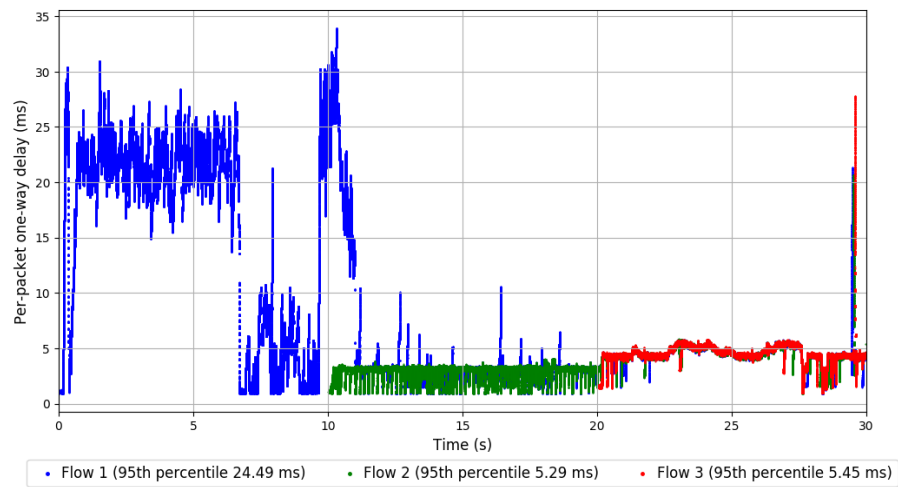
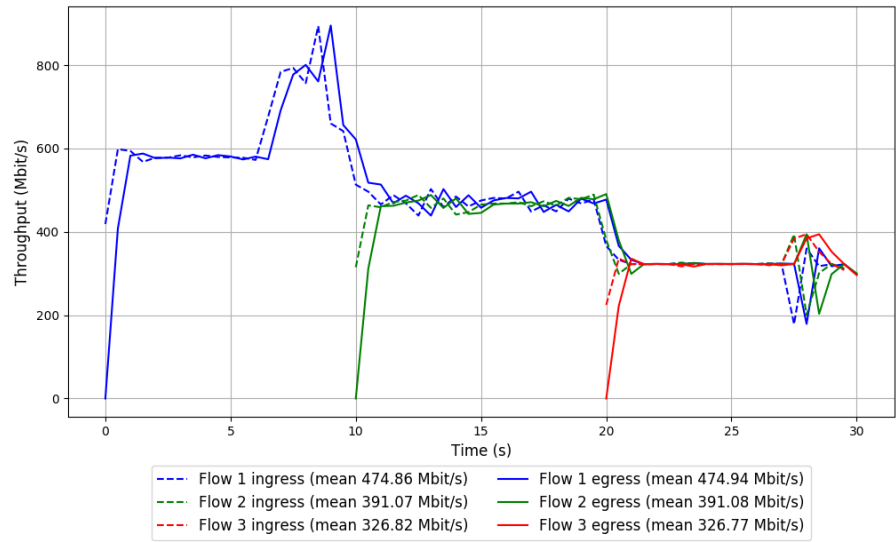


Run 7: Statistics of TCP BBR

Start at: 2018-05-25 14:54:03
End at: 2018-05-25 14:54:33
Local clock offset: 0.02 ms
Remote clock offset: -0.206 ms

Below is generated by plot.py at 2018-05-25 16:47:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 843.74 Mbit/s
95th percentile per-packet one-way delay: 23.217 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 474.94 Mbit/s
95th percentile per-packet one-way delay: 24.488 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 391.08 Mbit/s
95th percentile per-packet one-way delay: 5.295 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 326.77 Mbit/s
95th percentile per-packet one-way delay: 5.448 ms
Loss rate: 0.24%

Run 7: Report of TCP BBR — Data Link

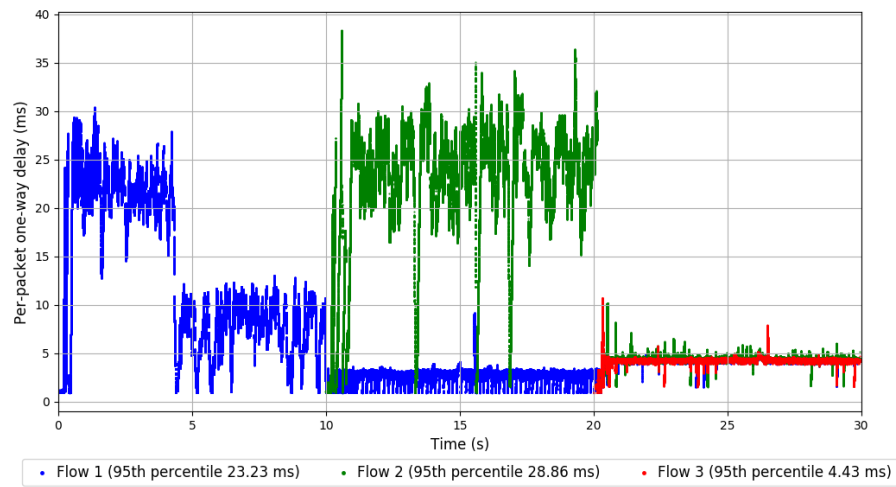
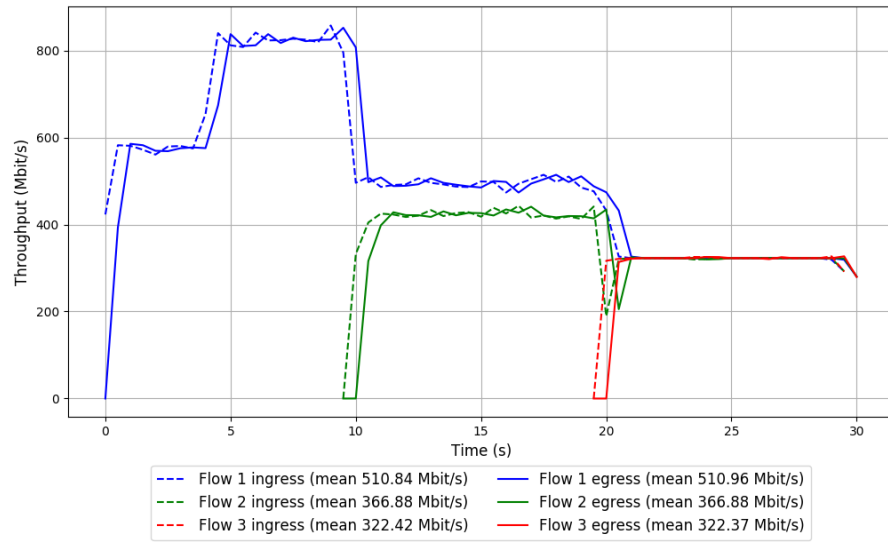


Run 8: Statistics of TCP BBR

Start at: 2018-05-25 15:19:30
End at: 2018-05-25 15:20:00
Local clock offset: -0.044 ms
Remote clock offset: -0.342 ms

Below is generated by plot.py at 2018-05-25 16:47:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 862.61 Mbit/s
95th percentile per-packet one-way delay: 26.541 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 510.96 Mbit/s
95th percentile per-packet one-way delay: 23.231 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 366.88 Mbit/s
95th percentile per-packet one-way delay: 28.857 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 322.37 Mbit/s
95th percentile per-packet one-way delay: 4.427 ms
Loss rate: 0.23%

Run 8: Report of TCP BBR — Data Link

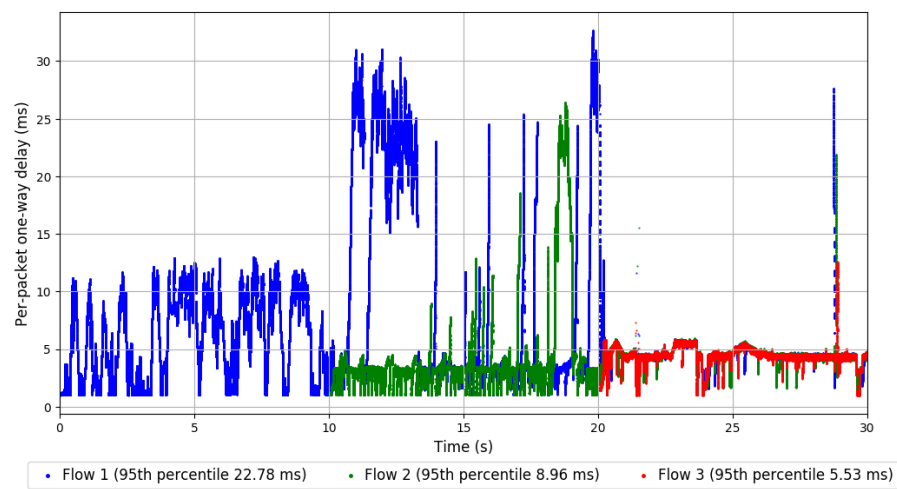
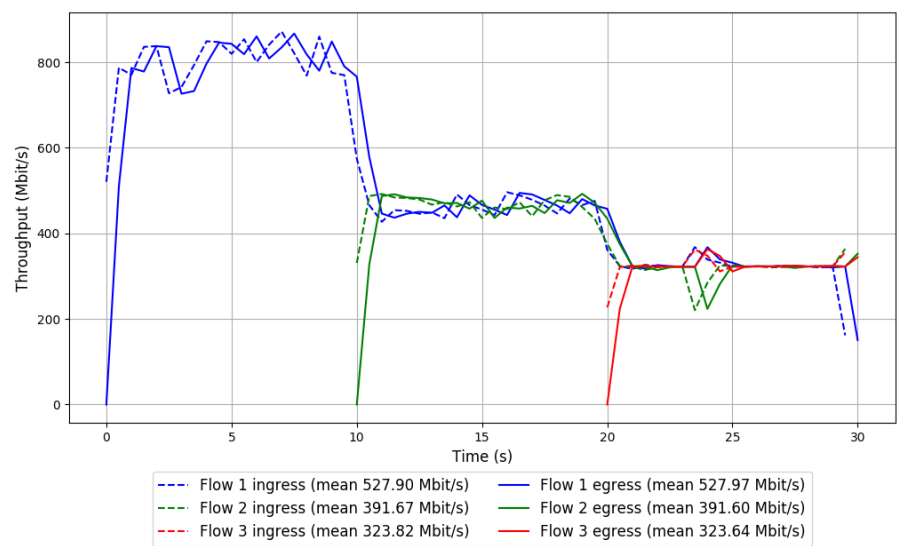


Run 9: Statistics of TCP BBR

Start at: 2018-05-25 15:44:58
End at: 2018-05-25 15:45:28
Local clock offset: 0.217 ms
Remote clock offset: -0.313 ms

Below is generated by plot.py at 2018-05-25 16:57:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 896.09 Mbit/s
95th percentile per-packet one-way delay: 18.607 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 527.97 Mbit/s
95th percentile per-packet one-way delay: 22.784 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 391.60 Mbit/s
95th percentile per-packet one-way delay: 8.965 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 323.64 Mbit/s
95th percentile per-packet one-way delay: 5.533 ms
Loss rate: 0.25%

Run 9: Report of TCP BBR — Data Link

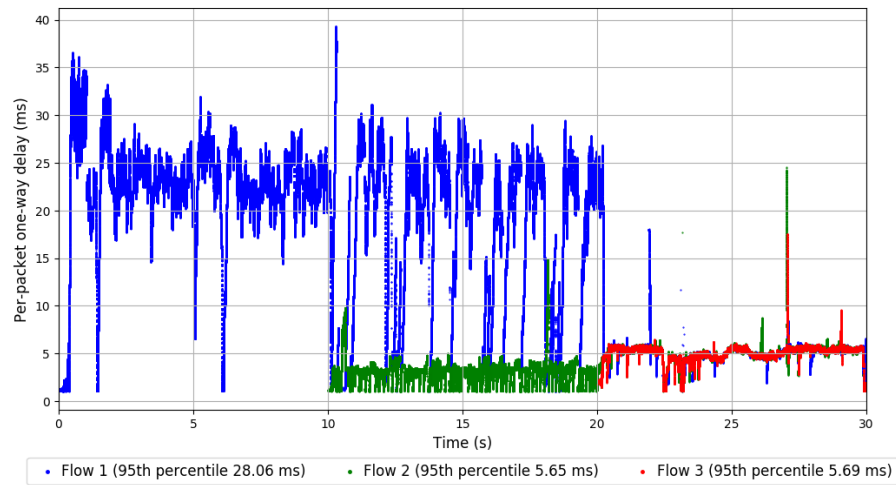
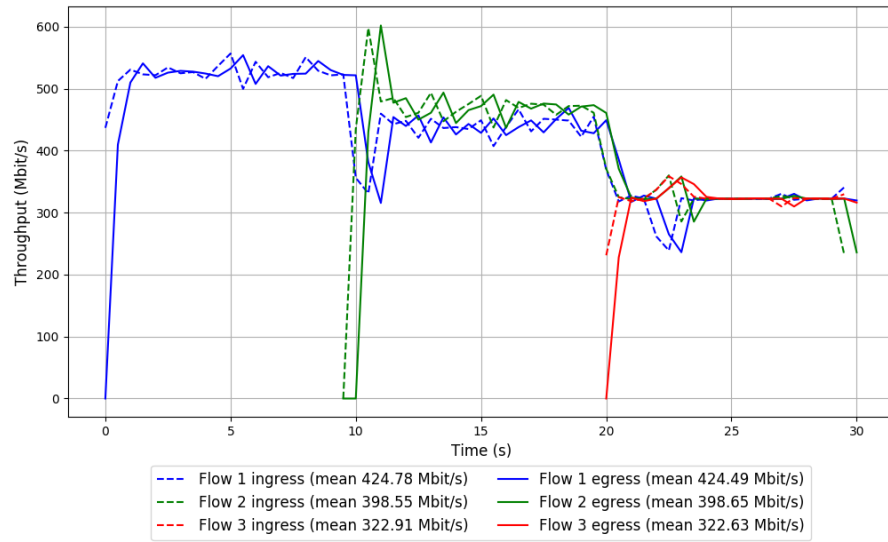


Run 10: Statistics of TCP BBR

Start at: 2018-05-25 16:10:08
End at: 2018-05-25 16:10:38
Local clock offset: 0.139 ms
Remote clock offset: -0.271 ms

Below is generated by plot.py at 2018-05-25 16:57:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 797.00 Mbit/s
95th percentile per-packet one-way delay: 26.626 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 424.49 Mbit/s
95th percentile per-packet one-way delay: 28.060 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 398.65 Mbit/s
95th percentile per-packet one-way delay: 5.652 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 322.63 Mbit/s
95th percentile per-packet one-way delay: 5.686 ms
Loss rate: 0.29%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-05-25 12:18:02

End at: 2018-05-25 12:18:32

Local clock offset: 0.28 ms

Remote clock offset: 0.132 ms

Below is generated by plot.py at 2018-05-25 16:58:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 505.28 Mbit/s

95th percentile per-packet one-way delay: 1.245 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 322.46 Mbit/s

95th percentile per-packet one-way delay: 1.256 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 212.48 Mbit/s

95th percentile per-packet one-way delay: 1.208 ms

Loss rate: 0.08%

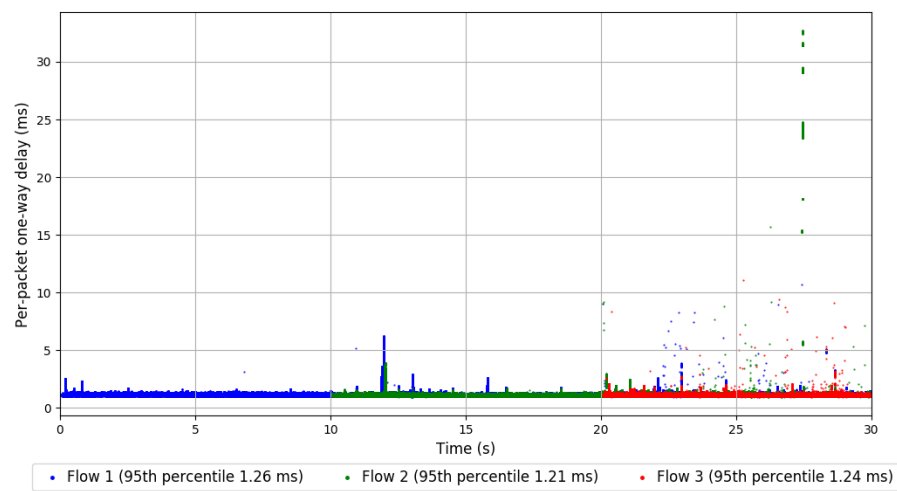
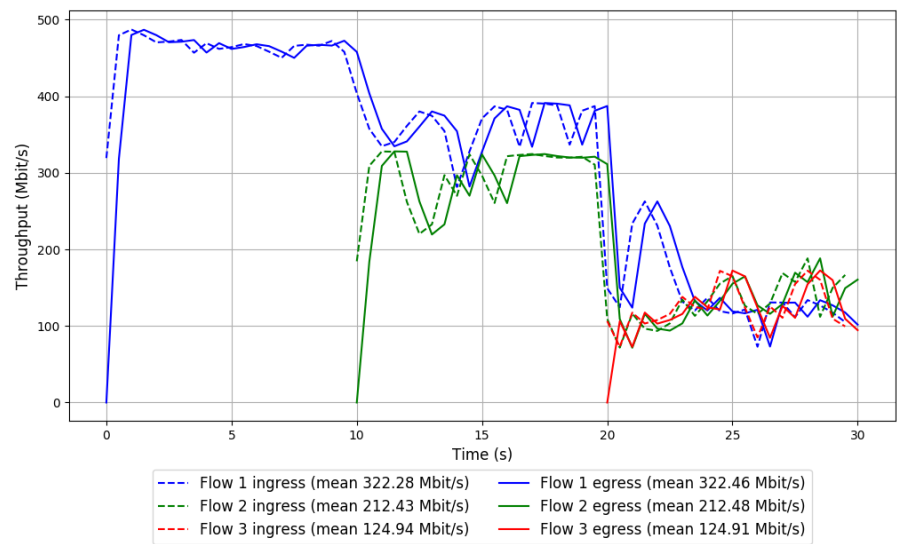
-- Flow 3:

Average throughput: 124.91 Mbit/s

95th percentile per-packet one-way delay: 1.239 ms

Loss rate: 0.22%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-05-25 12:43:25

End at: 2018-05-25 12:43:55

Local clock offset: 0.19 ms

Remote clock offset: 0.38 ms

Below is generated by plot.py at 2018-05-25 16:58:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 481.58 Mbit/s

95th percentile per-packet one-way delay: 1.202 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 276.69 Mbit/s

95th percentile per-packet one-way delay: 1.201 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 218.45 Mbit/s

95th percentile per-packet one-way delay: 1.209 ms

Loss rate: 0.07%

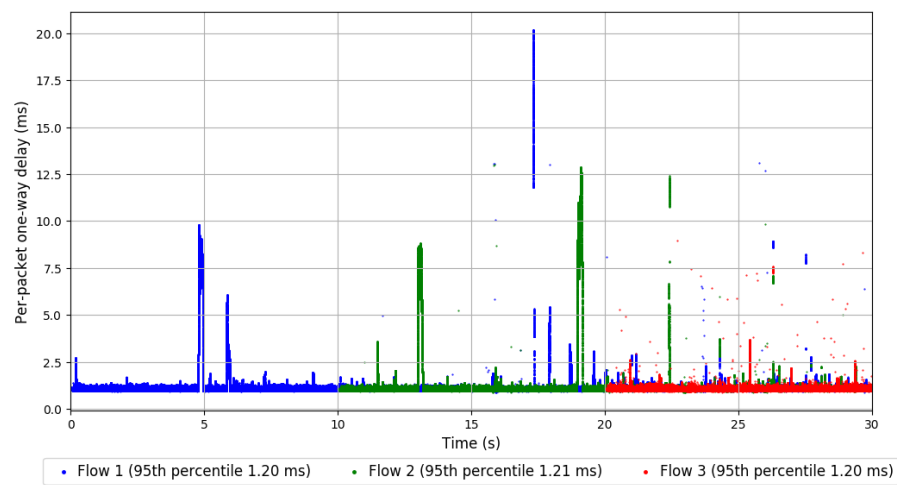
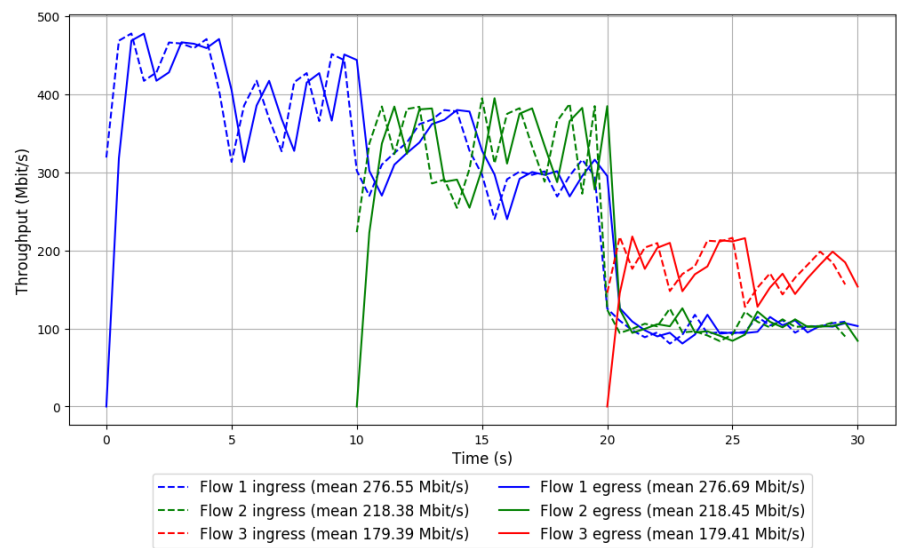
-- Flow 3:

Average throughput: 179.41 Mbit/s

95th percentile per-packet one-way delay: 1.198 ms

Loss rate: 0.08%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-05-25 13:09:12

End at: 2018-05-25 13:09:42

Local clock offset: 0.33 ms

Remote clock offset: 0.038 ms

Below is generated by plot.py at 2018-05-25 16:58:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 500.05 Mbit/s

95th percentile per-packet one-way delay: 1.322 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 321.98 Mbit/s

95th percentile per-packet one-way delay: 1.257 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 216.31 Mbit/s

95th percentile per-packet one-way delay: 1.825 ms

Loss rate: 0.07%

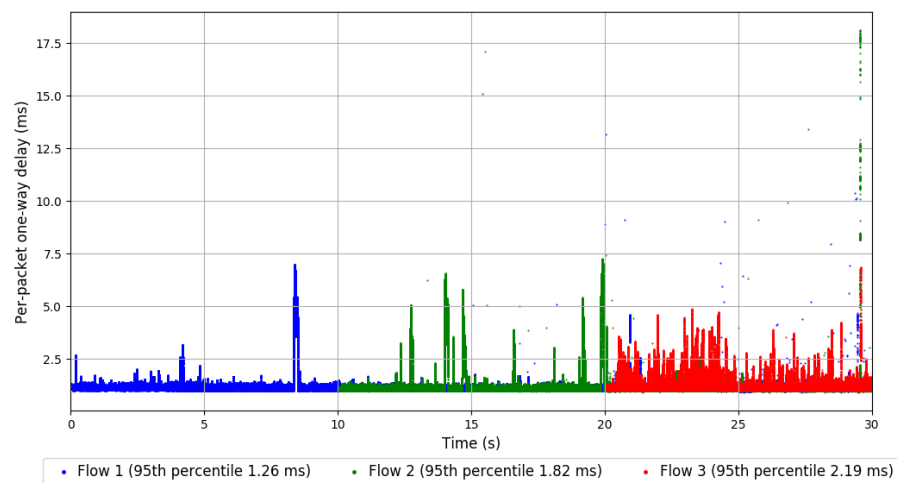
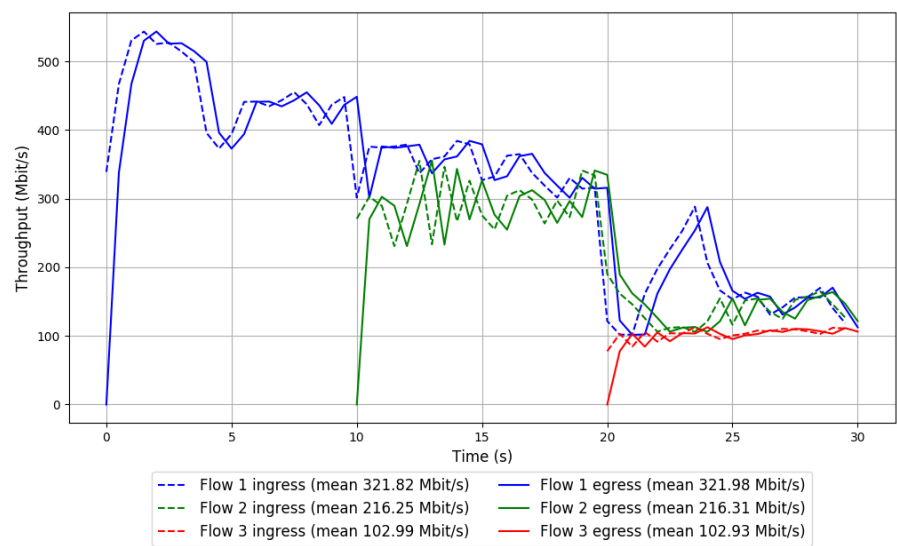
-- Flow 3:

Average throughput: 102.93 Mbit/s

95th percentile per-packet one-way delay: 2.186 ms

Loss rate: 0.24%

Run 3: Report of Copa — Data Link

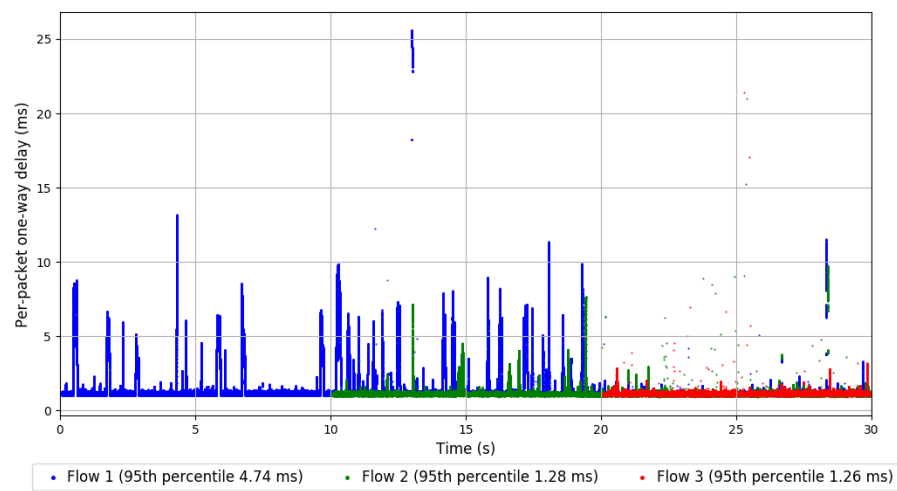
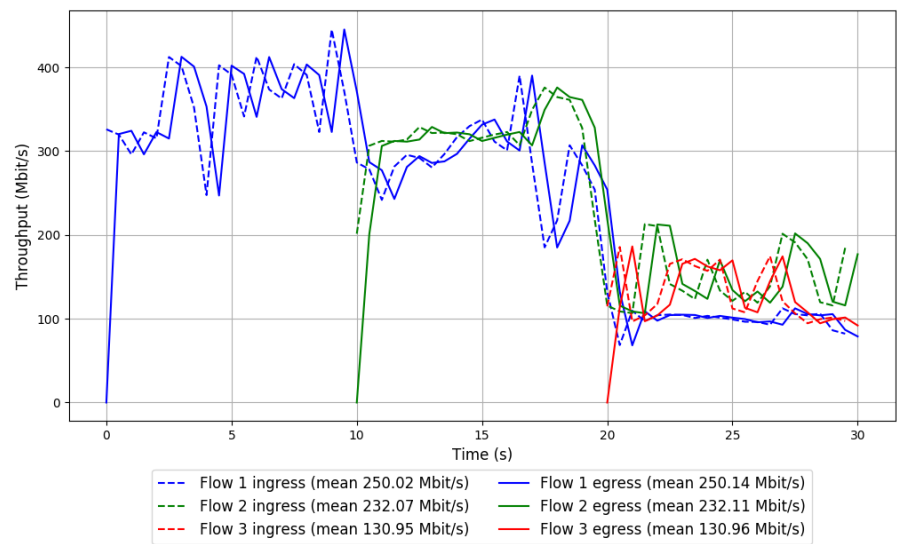


Run 4: Statistics of Copa

Start at: 2018-05-25 13:34:43
End at: 2018-05-25 13:35:13
Local clock offset: 0.272 ms
Remote clock offset: -0.263 ms

Below is generated by plot.py at 2018-05-25 16:58:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 448.02 Mbit/s
95th percentile per-packet one-way delay: 2.957 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 250.14 Mbit/s
95th percentile per-packet one-way delay: 4.736 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 232.11 Mbit/s
95th percentile per-packet one-way delay: 1.276 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 130.96 Mbit/s
95th percentile per-packet one-way delay: 1.256 ms
Loss rate: 0.21%

Run 4: Report of Copa — Data Link

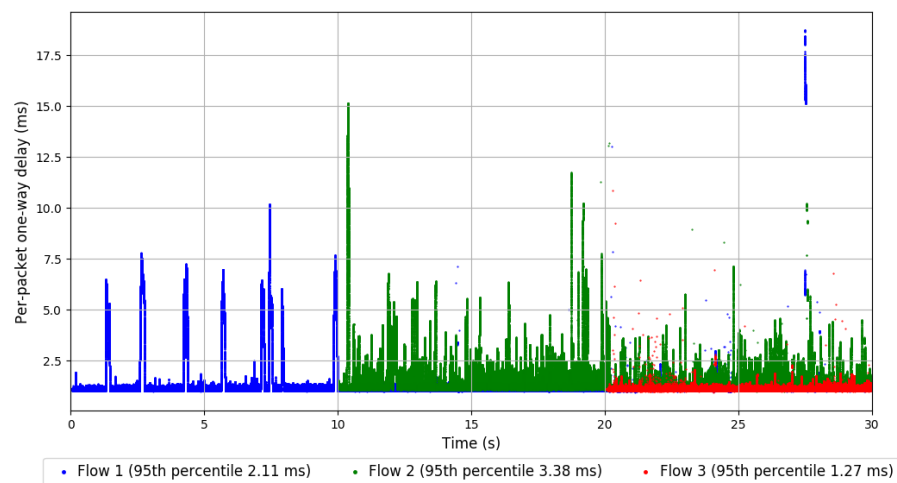
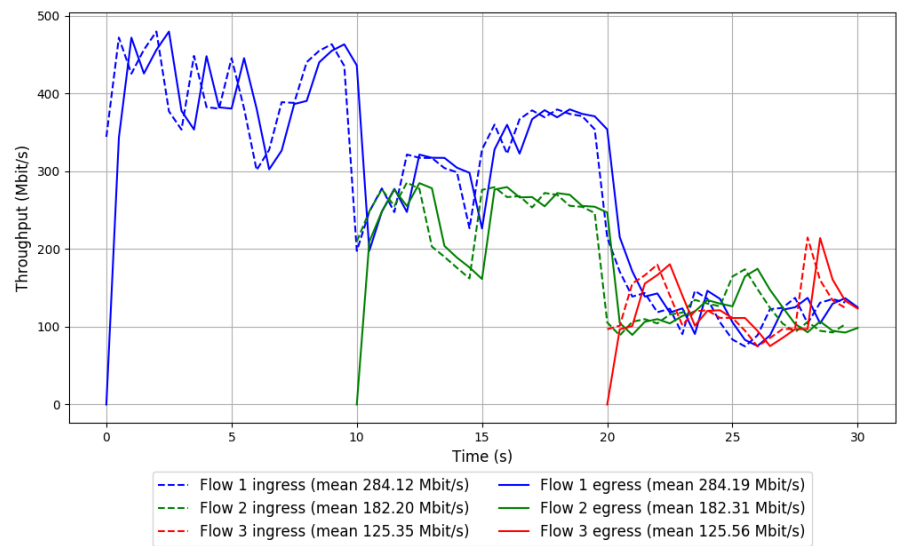


Run 5: Statistics of Copa

Start at: 2018-05-25 14:00:05
End at: 2018-05-25 14:00:35
Local clock offset: 0.089 ms
Remote clock offset: -0.303 ms

Below is generated by plot.py at 2018-05-25 16:58:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 447.05 Mbit/s
95th percentile per-packet one-way delay: 2.797 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 284.19 Mbit/s
95th percentile per-packet one-way delay: 2.110 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 182.31 Mbit/s
95th percentile per-packet one-way delay: 3.380 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 125.56 Mbit/s
95th percentile per-packet one-way delay: 1.275 ms
Loss rate: 0.07%

Run 5: Report of Copa — Data Link

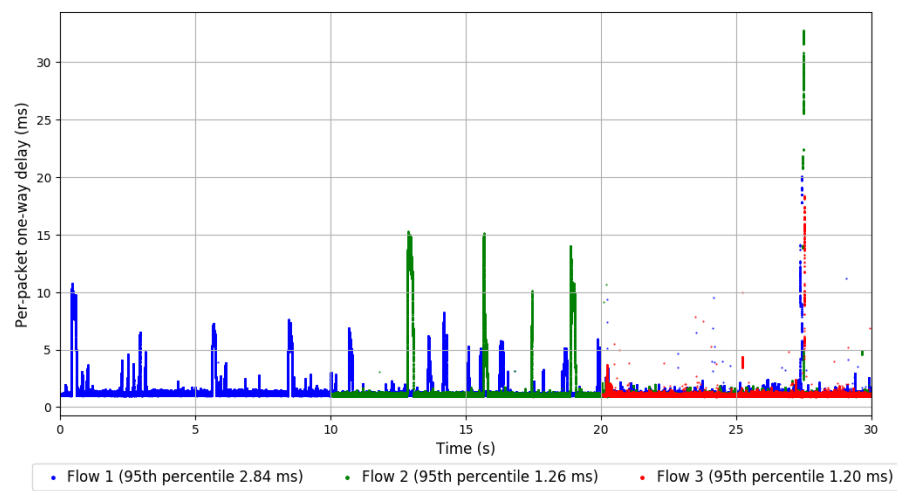
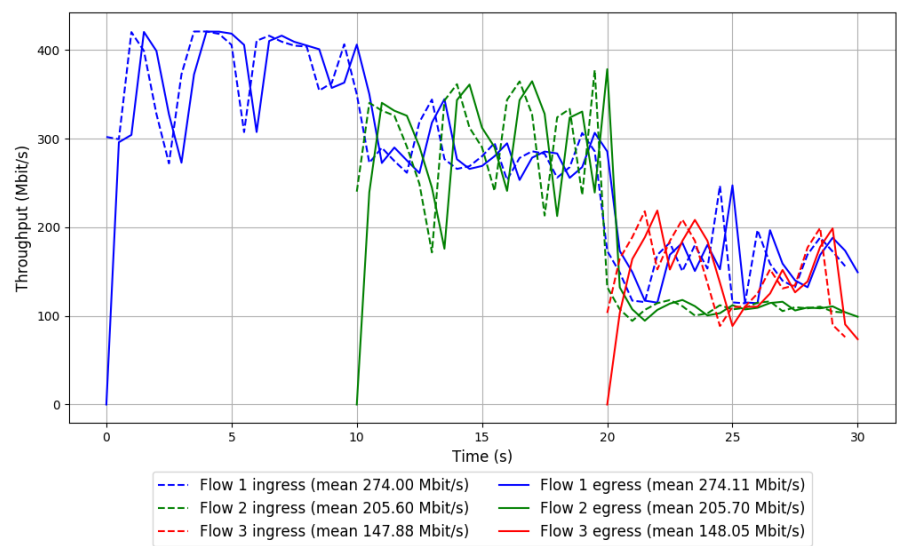


Run 6: Statistics of Copa

Start at: 2018-05-25 14:25:26
End at: 2018-05-25 14:25:56
Local clock offset: 0.06 ms
Remote clock offset: -0.017 ms

Below is generated by plot.py at 2018-05-25 16:58:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 459.99 Mbit/s
95th percentile per-packet one-way delay: 2.079 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 274.11 Mbit/s
95th percentile per-packet one-way delay: 2.842 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 205.70 Mbit/s
95th percentile per-packet one-way delay: 1.261 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 148.05 Mbit/s
95th percentile per-packet one-way delay: 1.195 ms
Loss rate: 0.08%

Run 6: Report of Copa — Data Link

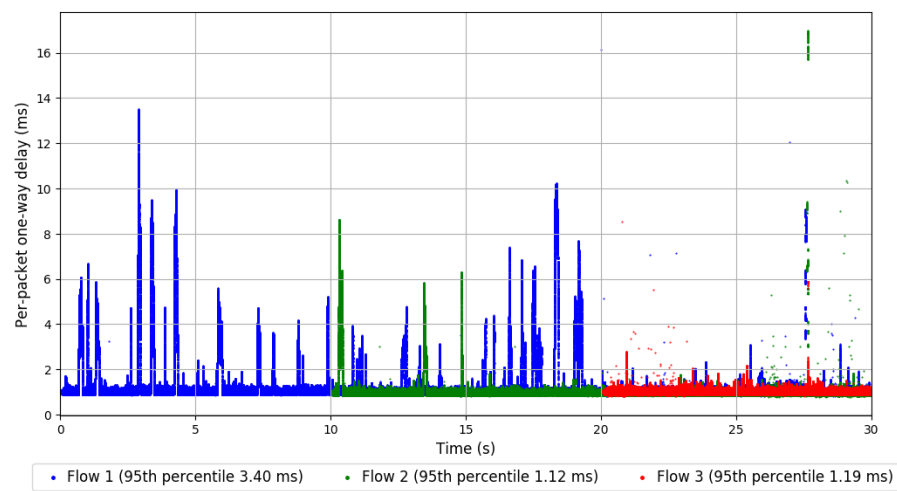
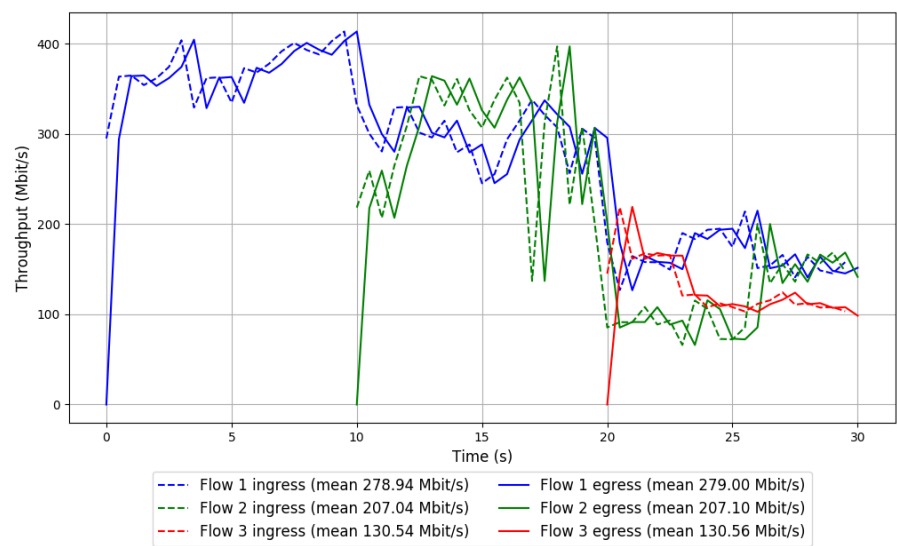


Run 7: Statistics of Copa

Start at: 2018-05-25 14:50:54
End at: 2018-05-25 14:51:24
Local clock offset: -0.06 ms
Remote clock offset: -0.227 ms

Below is generated by plot.py at 2018-05-25 17:07:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 460.03 Mbit/s
95th percentile per-packet one-way delay: 2.548 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 279.00 Mbit/s
95th percentile per-packet one-way delay: 3.404 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 207.10 Mbit/s
95th percentile per-packet one-way delay: 1.125 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 130.56 Mbit/s
95th percentile per-packet one-way delay: 1.194 ms
Loss rate: 0.20%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-05-25 15:16:18

End at: 2018-05-25 15:16:48

Local clock offset: -0.043 ms

Remote clock offset: -0.38 ms

Below is generated by plot.py at 2018-05-25 17:08:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 484.18 Mbit/s

95th percentile per-packet one-way delay: 1.459 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 293.00 Mbit/s

95th percentile per-packet one-way delay: 1.297 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 233.78 Mbit/s

95th percentile per-packet one-way delay: 2.418 ms

Loss rate: 0.08%

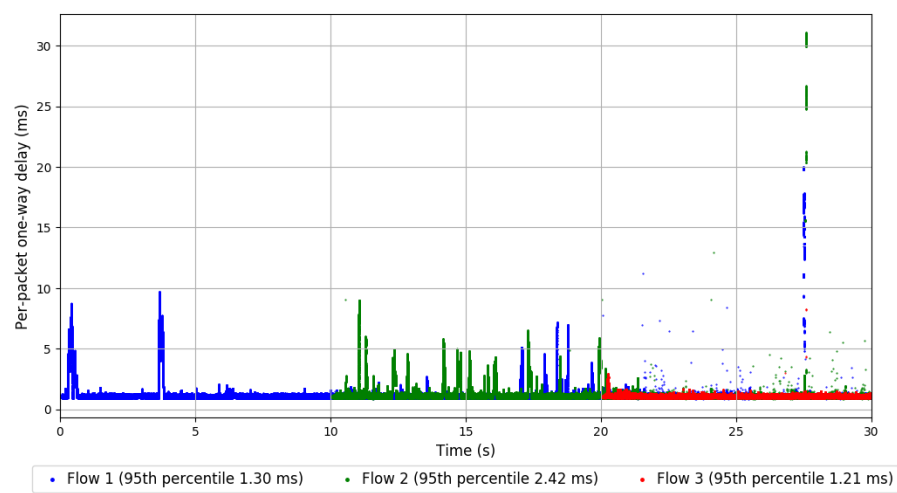
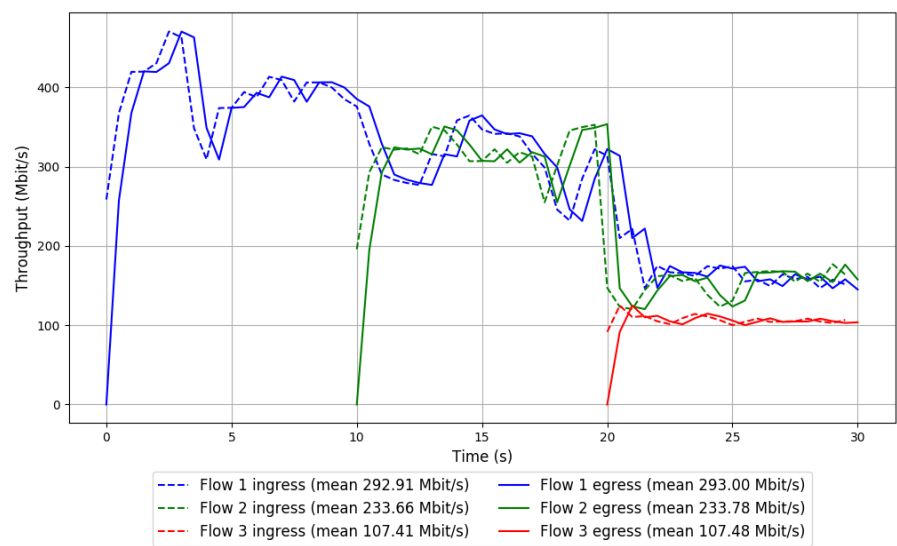
-- Flow 3:

Average throughput: 107.48 Mbit/s

95th percentile per-packet one-way delay: 1.213 ms

Loss rate: 0.14%

Run 8: Report of Copa — Data Link

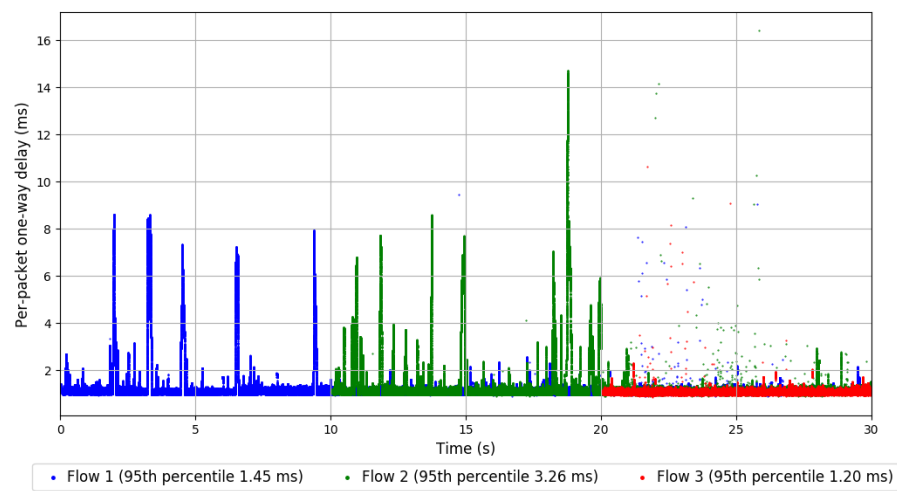
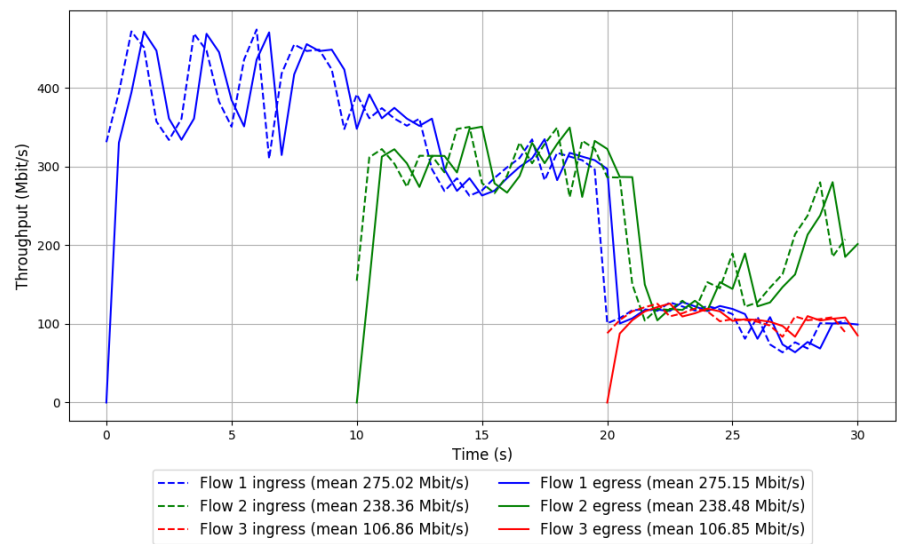


Run 9: Statistics of Copa

Start at: 2018-05-25 15:41:45
End at: 2018-05-25 15:42:15
Local clock offset: 0.22 ms
Remote clock offset: -0.286 ms

Below is generated by plot.py at 2018-05-25 17:08:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 469.41 Mbit/s
95th percentile per-packet one-way delay: 1.892 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 275.15 Mbit/s
95th percentile per-packet one-way delay: 1.448 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 238.48 Mbit/s
95th percentile per-packet one-way delay: 3.260 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 106.85 Mbit/s
95th percentile per-packet one-way delay: 1.203 ms
Loss rate: 0.21%

Run 9: Report of Copa — Data Link

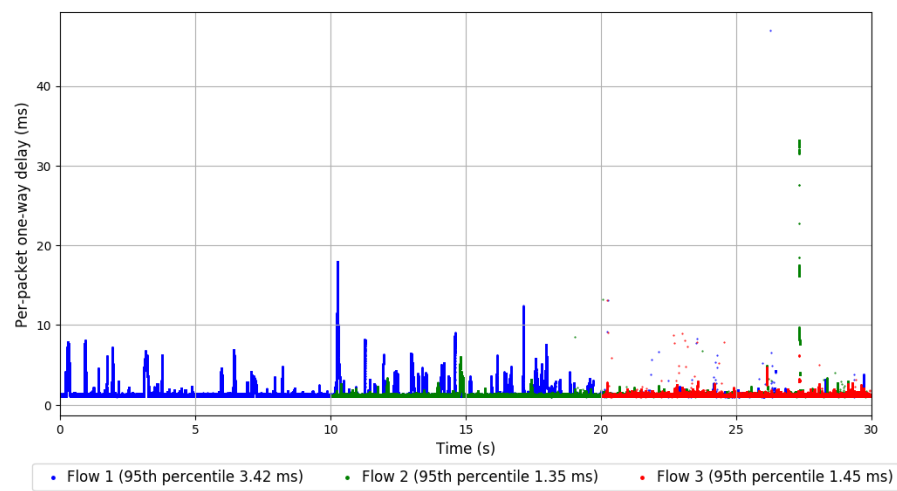
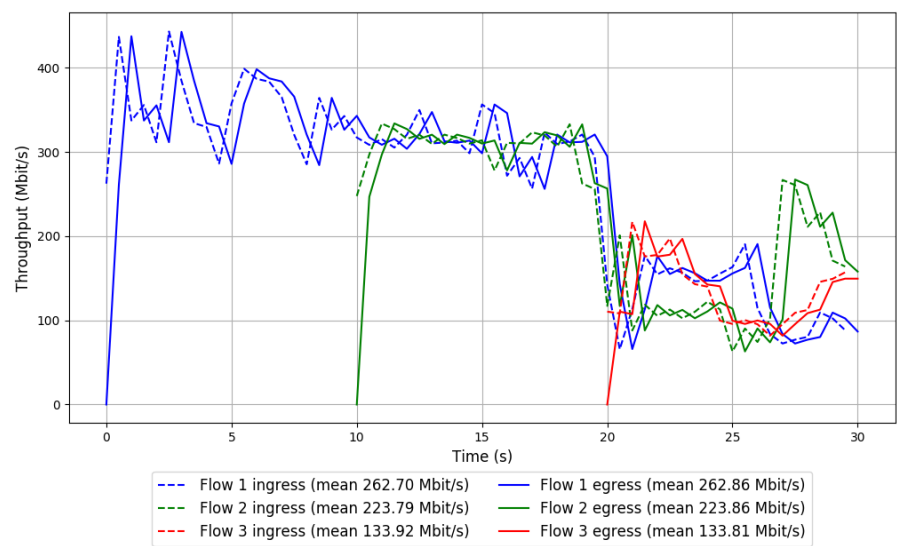


Run 10: Statistics of Copa

Start at: 2018-05-25 16:06:57
End at: 2018-05-25 16:07:27
Local clock offset: 0.153 ms
Remote clock offset: -0.275 ms

Below is generated by plot.py at 2018-05-25 17:08:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 456.23 Mbit/s
95th percentile per-packet one-way delay: 2.578 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 262.86 Mbit/s
95th percentile per-packet one-way delay: 3.419 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 223.86 Mbit/s
95th percentile per-packet one-way delay: 1.352 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 133.81 Mbit/s
95th percentile per-packet one-way delay: 1.446 ms
Loss rate: 0.28%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-05-25 12:06:39

End at: 2018-05-25 12:07:09

Local clock offset: 0.422 ms

Remote clock offset: 0.144 ms

Below is generated by plot.py at 2018-05-25 17:08:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 778.01 Mbit/s

95th percentile per-packet one-way delay: 30.606 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 451.20 Mbit/s

95th percentile per-packet one-way delay: 31.278 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 347.43 Mbit/s

95th percentile per-packet one-way delay: 3.034 ms

Loss rate: 0.09%

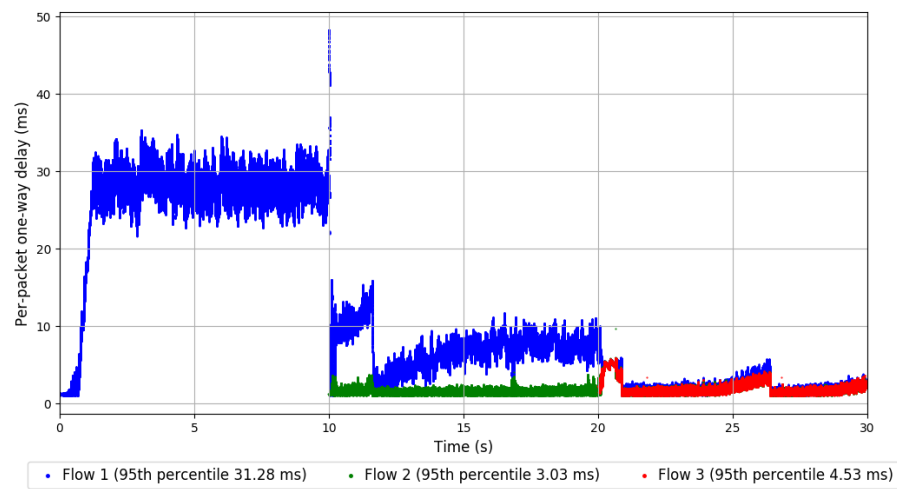
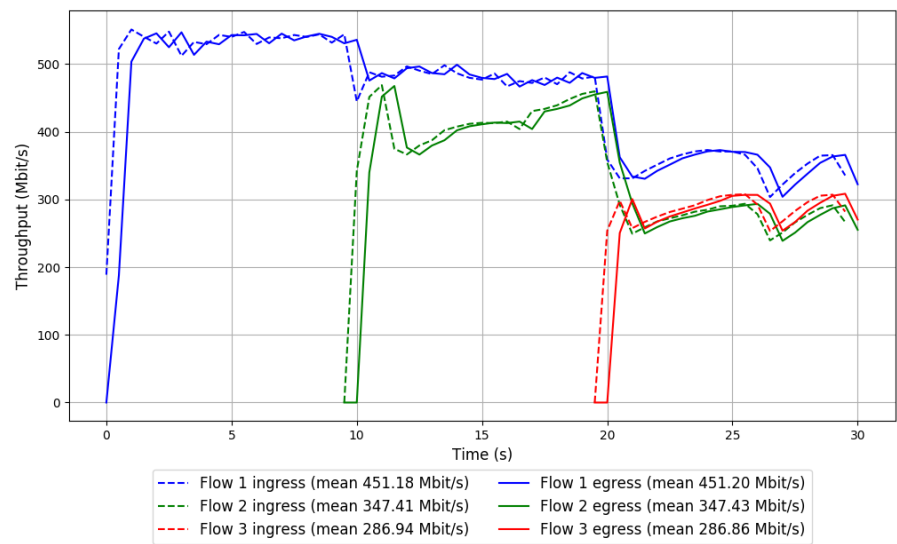
-- Flow 3:

Average throughput: 286.86 Mbit/s

95th percentile per-packet one-way delay: 4.526 ms

Loss rate: 0.22%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-05-25 12:32:15

End at: 2018-05-25 12:32:45

Local clock offset: 0.181 ms

Remote clock offset: 0.215 ms

Below is generated by plot.py at 2018-05-25 17:08:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 801.92 Mbit/s

95th percentile per-packet one-way delay: 42.332 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 400.15 Mbit/s

95th percentile per-packet one-way delay: 44.750 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 456.16 Mbit/s

95th percentile per-packet one-way delay: 4.641 ms

Loss rate: 0.11%

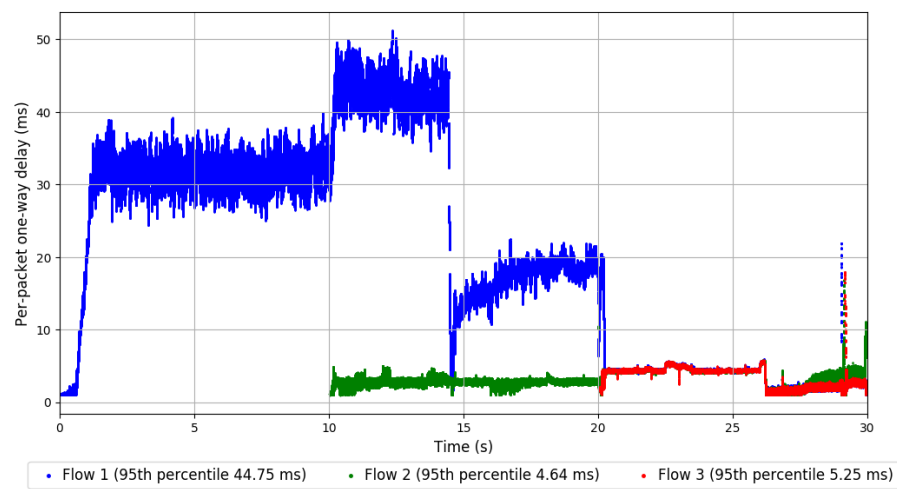
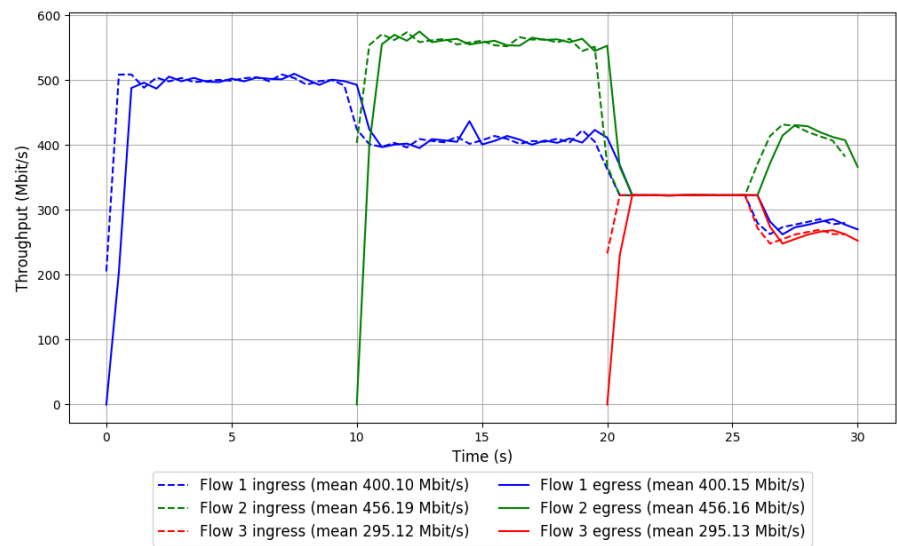
-- Flow 3:

Average throughput: 295.13 Mbit/s

95th percentile per-packet one-way delay: 5.248 ms

Loss rate: 0.20%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-05-25 12:57:45

End at: 2018-05-25 12:58:15

Local clock offset: 0.145 ms

Remote clock offset: 0.106 ms

Below is generated by plot.py at 2018-05-25 17:08:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 771.37 Mbit/s

95th percentile per-packet one-way delay: 4.490 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 411.25 Mbit/s

95th percentile per-packet one-way delay: 4.448 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 382.31 Mbit/s

95th percentile per-packet one-way delay: 4.503 ms

Loss rate: 0.10%

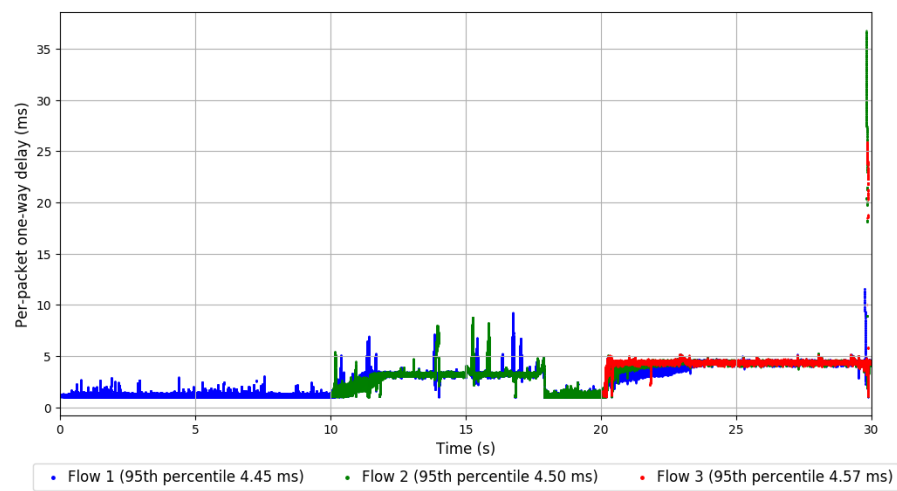
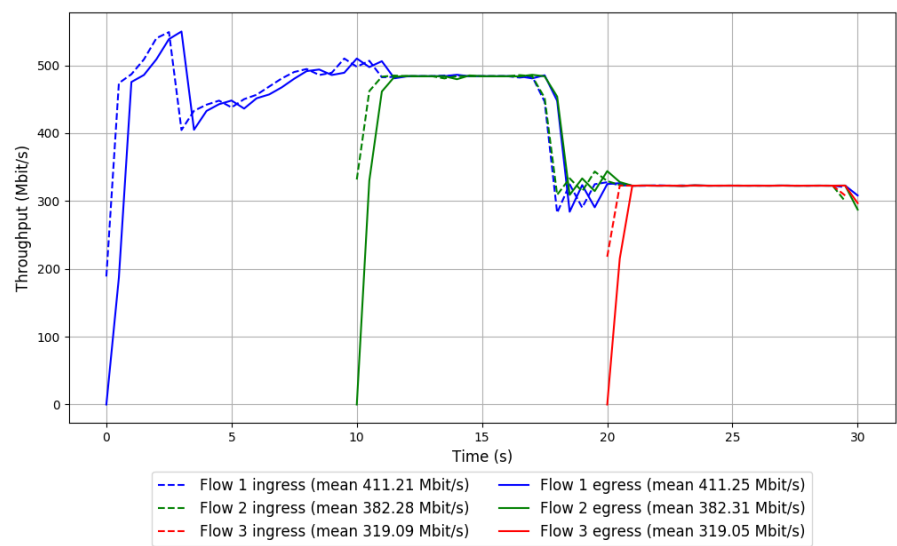
-- Flow 3:

Average throughput: 319.05 Mbit/s

95th percentile per-packet one-way delay: 4.567 ms

Loss rate: 0.22%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-05-25 13:23:22

End at: 2018-05-25 13:23:52

Local clock offset: 0.439 ms

Remote clock offset: 0.029 ms

Below is generated by plot.py at 2018-05-25 17:08:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 759.04 Mbit/s

95th percentile per-packet one-way delay: 4.402 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 421.41 Mbit/s

95th percentile per-packet one-way delay: 4.349 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 368.67 Mbit/s

95th percentile per-packet one-way delay: 4.414 ms

Loss rate: 0.08%

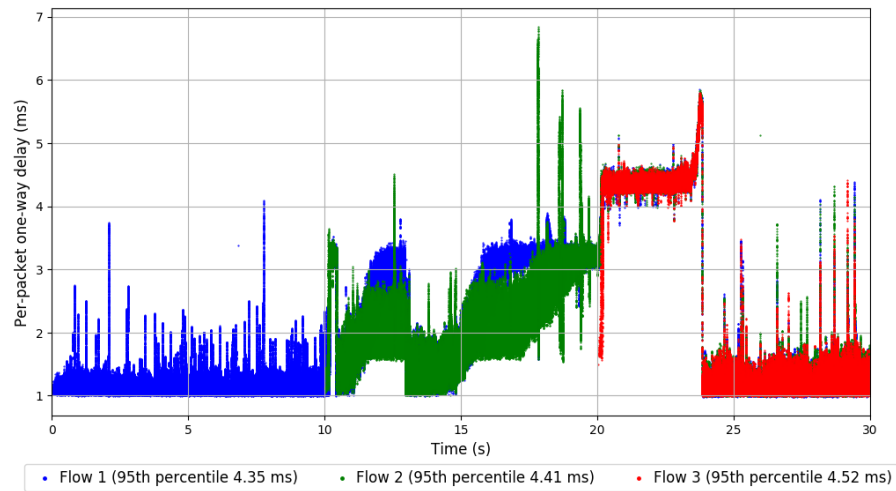
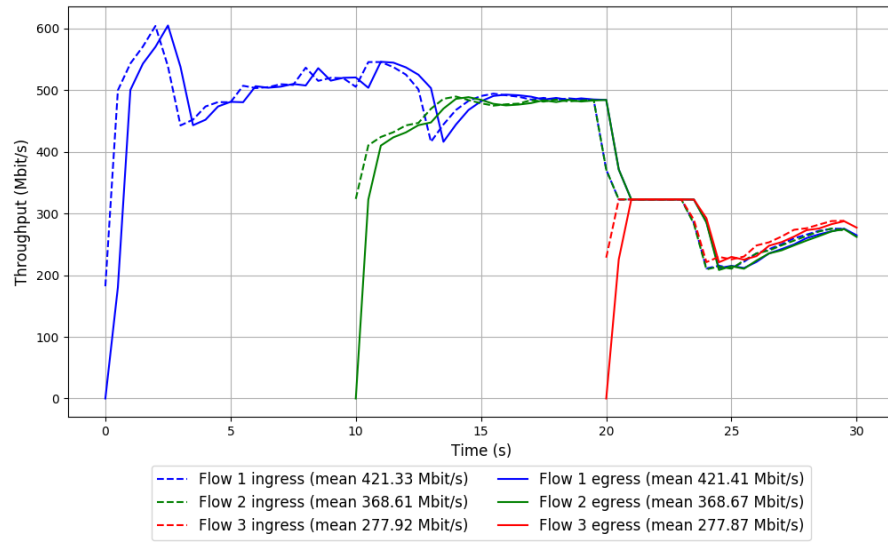
-- Flow 3:

Average throughput: 277.87 Mbit/s

95th percentile per-packet one-way delay: 4.523 ms

Loss rate: 0.23%

Run 4: Report of TCP Cubic — Data Link

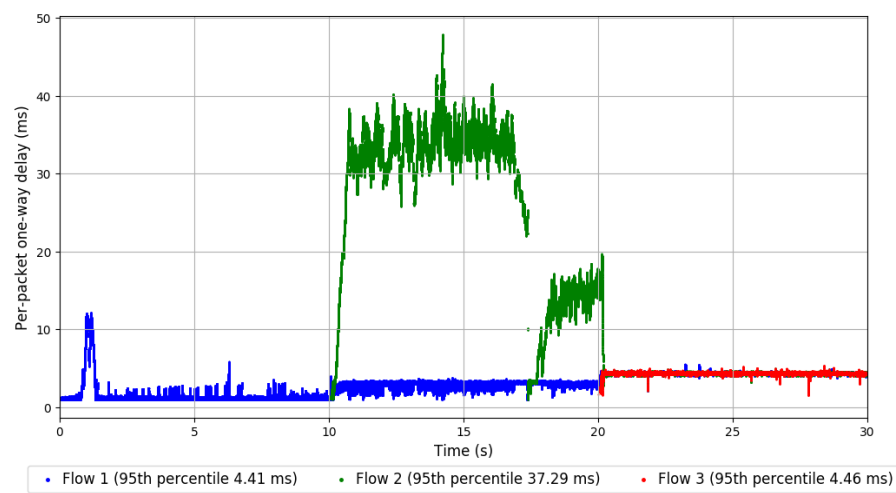
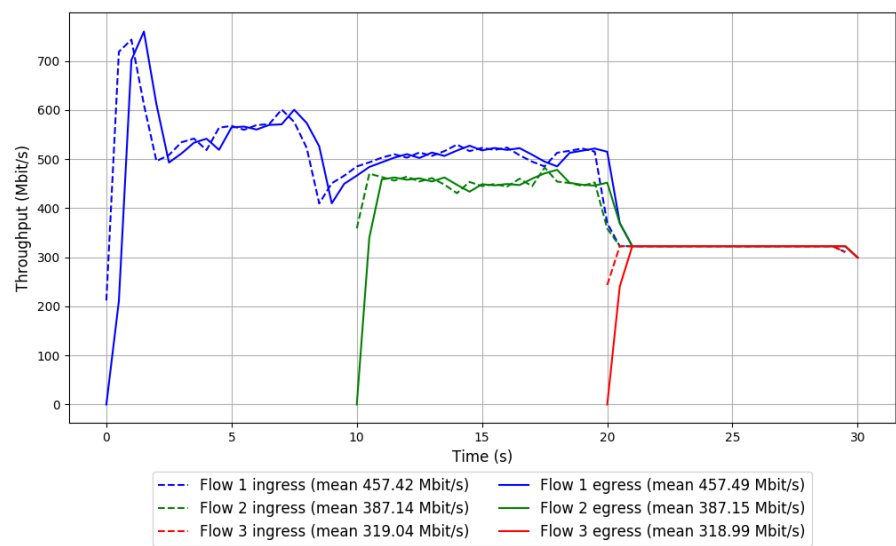


Run 5: Statistics of TCP Cubic

Start at: 2018-05-25 13:48:44
End at: 2018-05-25 13:49:14
Local clock offset: 0.145 ms
Remote clock offset: -0.347 ms

Below is generated by plot.py at 2018-05-25 17:17:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 821.31 Mbit/s
95th percentile per-packet one-way delay: 35.015 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 457.49 Mbit/s
95th percentile per-packet one-way delay: 4.409 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 387.15 Mbit/s
95th percentile per-packet one-way delay: 37.291 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 318.99 Mbit/s
95th percentile per-packet one-way delay: 4.461 ms
Loss rate: 0.22%

Run 5: Report of TCP Cubic — Data Link

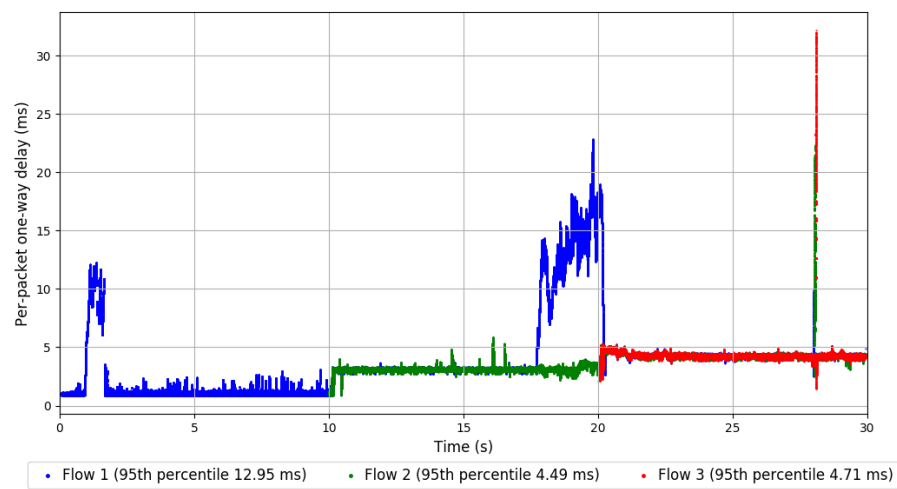
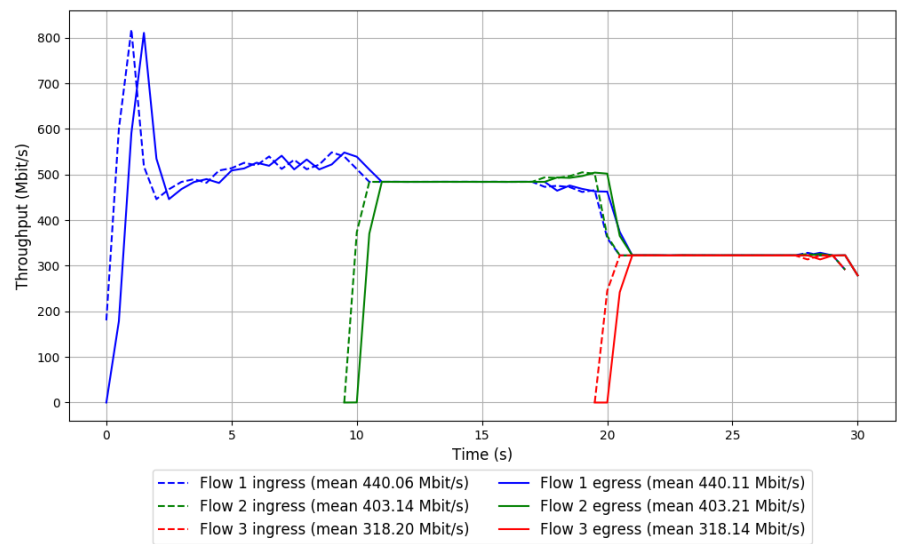


Run 6: Statistics of TCP Cubic

Start at: 2018-05-25 14:14:18
End at: 2018-05-25 14:14:48
Local clock offset: -0.012 ms
Remote clock offset: -0.028 ms

Below is generated by plot.py at 2018-05-25 17:17:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 814.49 Mbit/s
95th percentile per-packet one-way delay: 10.010 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 440.11 Mbit/s
95th percentile per-packet one-way delay: 12.946 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 403.21 Mbit/s
95th percentile per-packet one-way delay: 4.488 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 318.14 Mbit/s
95th percentile per-packet one-way delay: 4.714 ms
Loss rate: 0.24%

Run 6: Report of TCP Cubic — Data Link

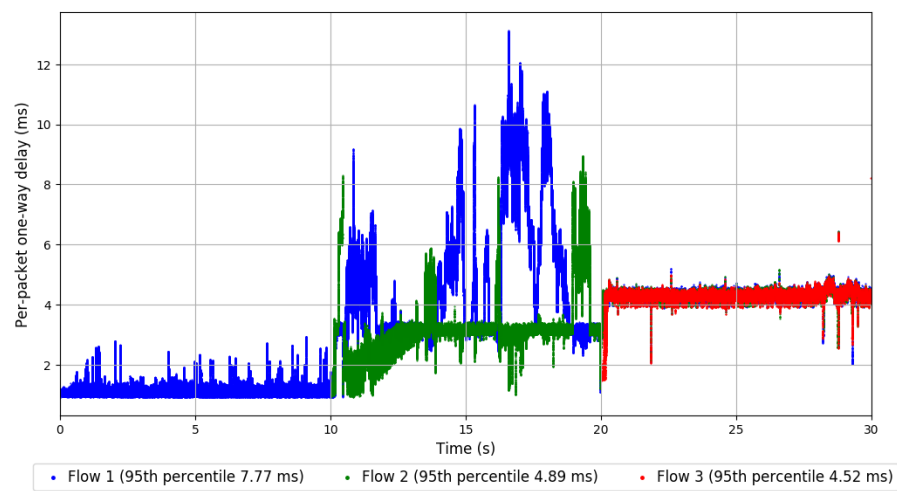
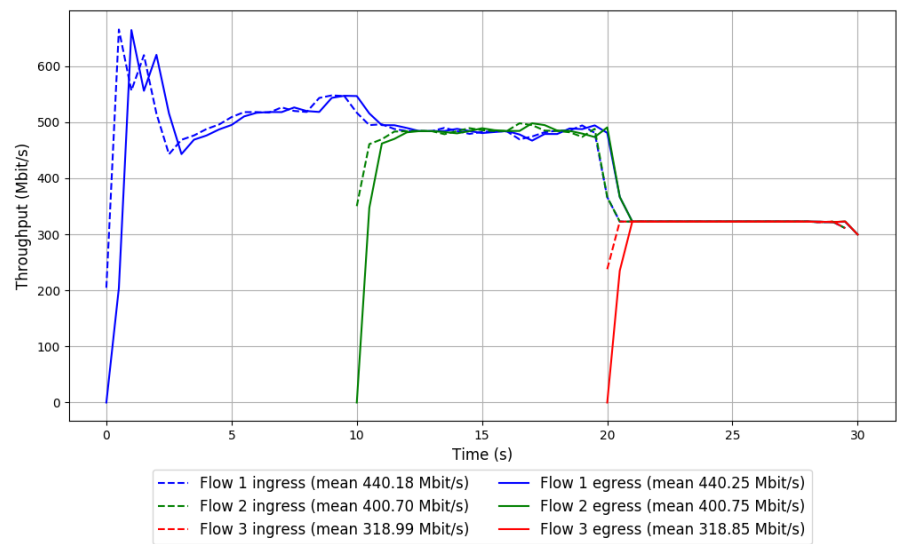


Run 7: Statistics of TCP Cubic

Start at: 2018-05-25 14:39:26
End at: 2018-05-25 14:39:56
Local clock offset: -0.046 ms
Remote clock offset: -0.202 ms

Below is generated by plot.py at 2018-05-25 17:17:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 812.88 Mbit/s
95th percentile per-packet one-way delay: 6.141 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 440.25 Mbit/s
95th percentile per-packet one-way delay: 7.768 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 400.75 Mbit/s
95th percentile per-packet one-way delay: 4.890 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 318.85 Mbit/s
95th percentile per-packet one-way delay: 4.521 ms
Loss rate: 0.22%

Run 7: Report of TCP Cubic — Data Link

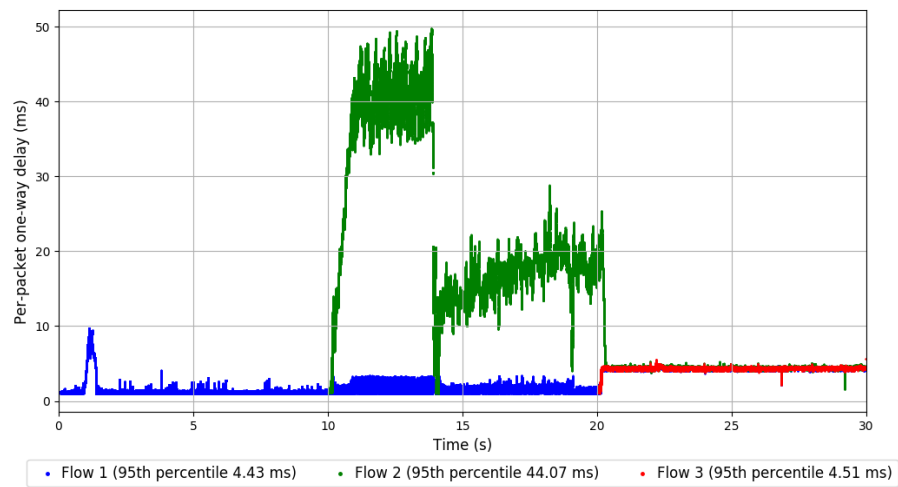
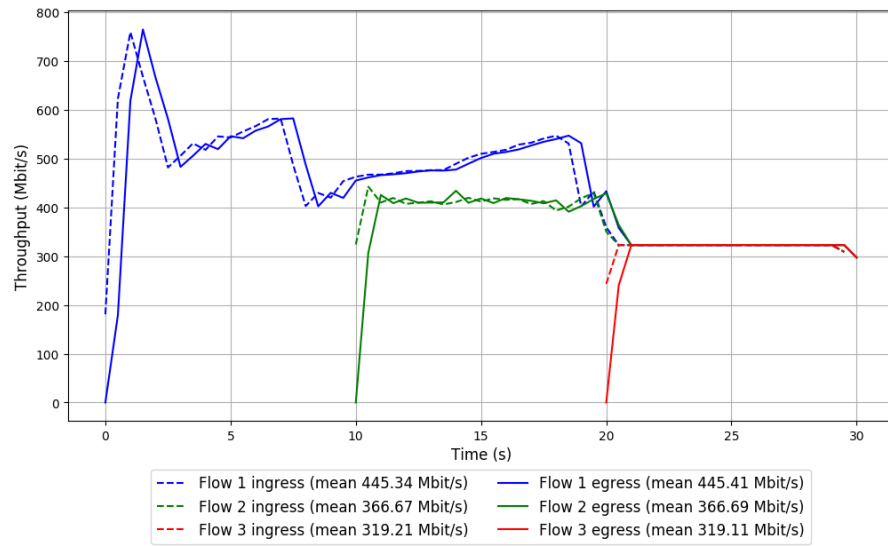


Run 8: Statistics of TCP Cubic

Start at: 2018-05-25 15:05:07
End at: 2018-05-25 15:05:37
Local clock offset: 0.033 ms
Remote clock offset: -0.321 ms

Below is generated by plot.py at 2018-05-25 17:17:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 795.56 Mbit/s
95th percentile per-packet one-way delay: 36.772 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 445.41 Mbit/s
95th percentile per-packet one-way delay: 4.434 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 366.69 Mbit/s
95th percentile per-packet one-way delay: 44.067 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 319.11 Mbit/s
95th percentile per-packet one-way delay: 4.508 ms
Loss rate: 0.22%

Run 8: Report of TCP Cubic — Data Link

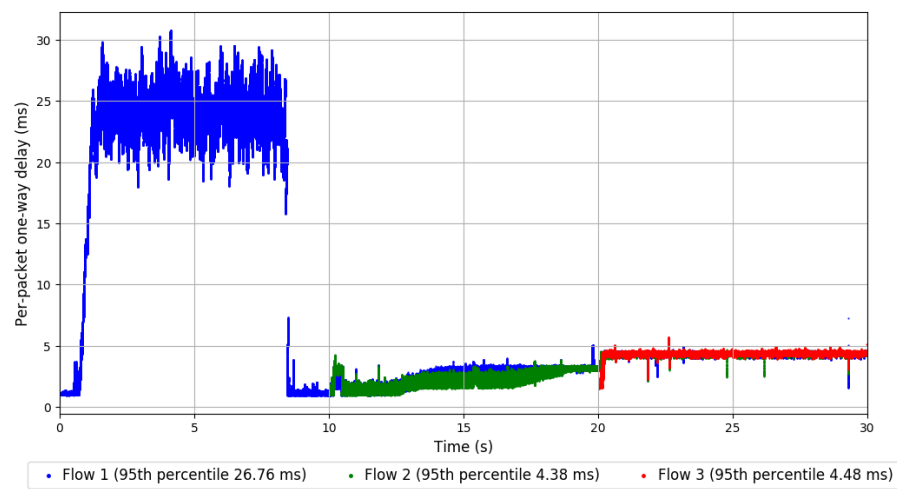
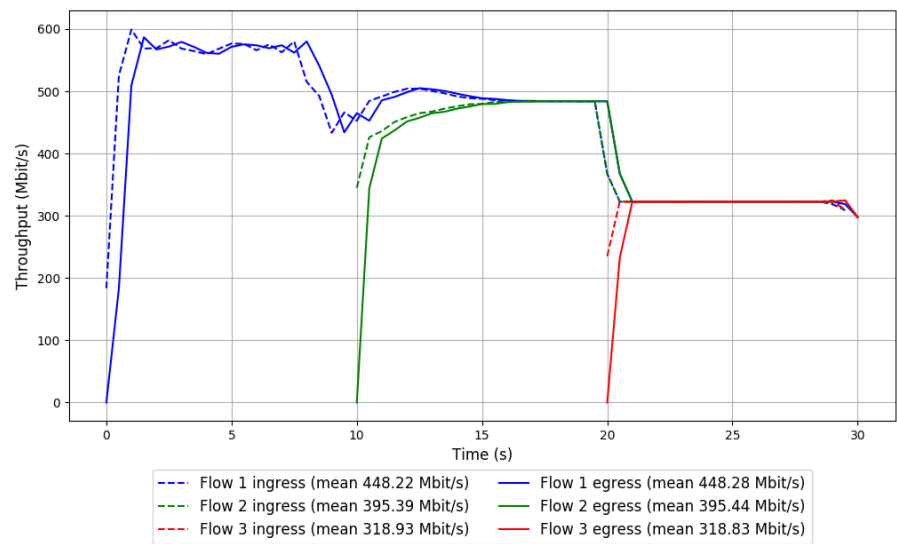


Run 9: Statistics of TCP Cubic

Start at: 2018-05-25 15:30:30
End at: 2018-05-25 15:31:00
Local clock offset: 0.08 ms
Remote clock offset: -0.313 ms

Below is generated by plot.py at 2018-05-25 17:17:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 817.44 Mbit/s
95th percentile per-packet one-way delay: 26.010 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 448.28 Mbit/s
95th percentile per-packet one-way delay: 26.758 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 395.44 Mbit/s
95th percentile per-packet one-way delay: 4.378 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 318.83 Mbit/s
95th percentile per-packet one-way delay: 4.480 ms
Loss rate: 0.22%

Run 9: Report of TCP Cubic — Data Link

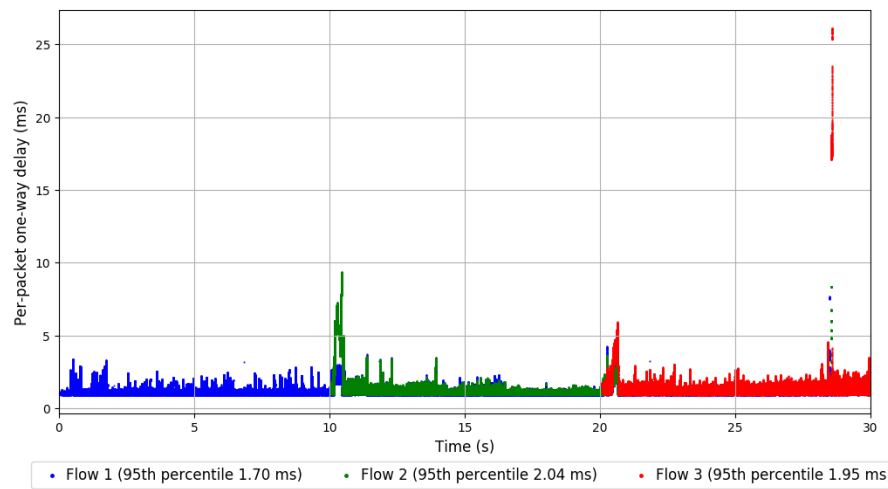
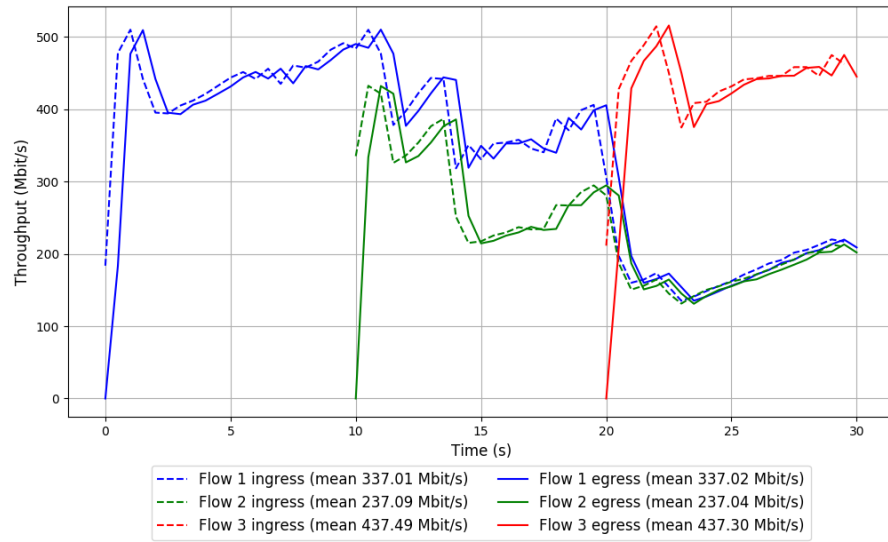


Run 10: Statistics of TCP Cubic

Start at: 2018-05-25 15:55:59
End at: 2018-05-25 15:56:29
Local clock offset: 0.175 ms
Remote clock offset: -0.234 ms

Below is generated by plot.py at 2018-05-25 17:17:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 639.49 Mbit/s
95th percentile per-packet one-way delay: 1.824 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 337.02 Mbit/s
95th percentile per-packet one-way delay: 1.697 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 237.04 Mbit/s
95th percentile per-packet one-way delay: 2.041 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 437.30 Mbit/s
95th percentile per-packet one-way delay: 1.945 ms
Loss rate: 0.23%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-05-25 12:29:11

End at: 2018-05-25 12:29:41

Local clock offset: 0.223 ms

Remote clock offset: 0.192 ms

Below is generated by plot.py at 2018-05-25 17:22:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 941.58 Mbit/s

95th percentile per-packet one-way delay: 3.799 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 591.78 Mbit/s

95th percentile per-packet one-way delay: 3.598 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 376.16 Mbit/s

95th percentile per-packet one-way delay: 3.855 ms

Loss rate: 0.09%

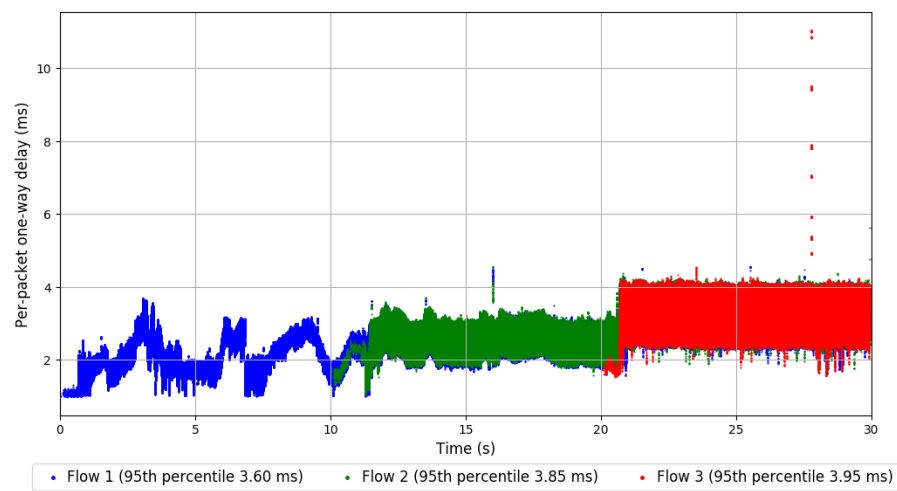
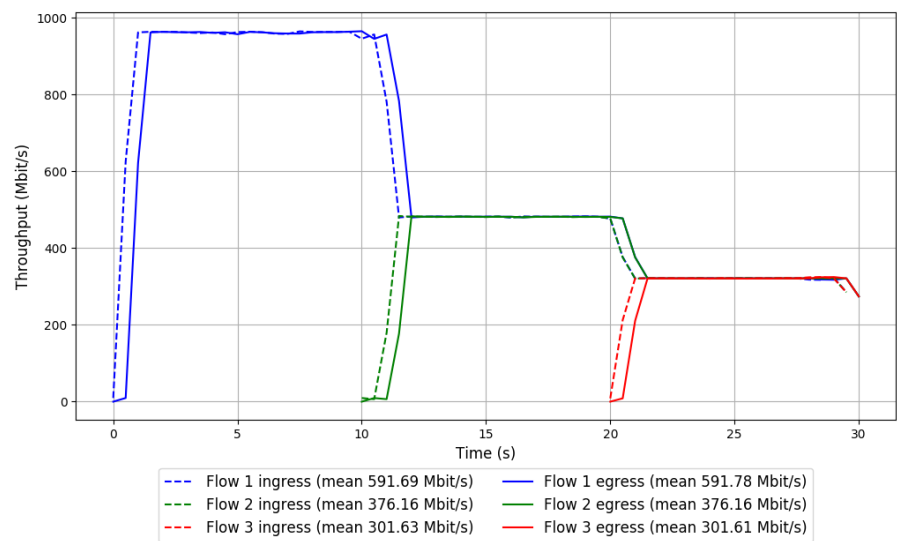
-- Flow 3:

Average throughput: 301.61 Mbit/s

95th percentile per-packet one-way delay: 3.950 ms

Loss rate: 0.22%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-05-25 12:54:38

End at: 2018-05-25 12:55:08

Local clock offset: 0.175 ms

Remote clock offset: 0.15 ms

Below is generated by plot.py at 2018-05-25 17:22:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 849.41 Mbit/s

95th percentile per-packet one-way delay: 43.127 ms

Loss rate: 2.23%

-- Flow 1:

Average throughput: 489.50 Mbit/s

95th percentile per-packet one-way delay: 44.517 ms

Loss rate: 3.70%

-- Flow 2:

Average throughput: 388.34 Mbit/s

95th percentile per-packet one-way delay: 4.240 ms

Loss rate: 0.11%

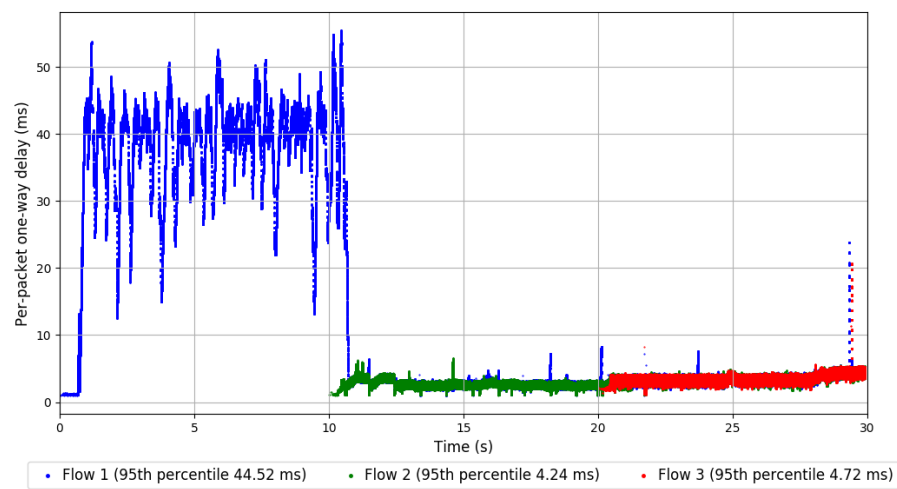
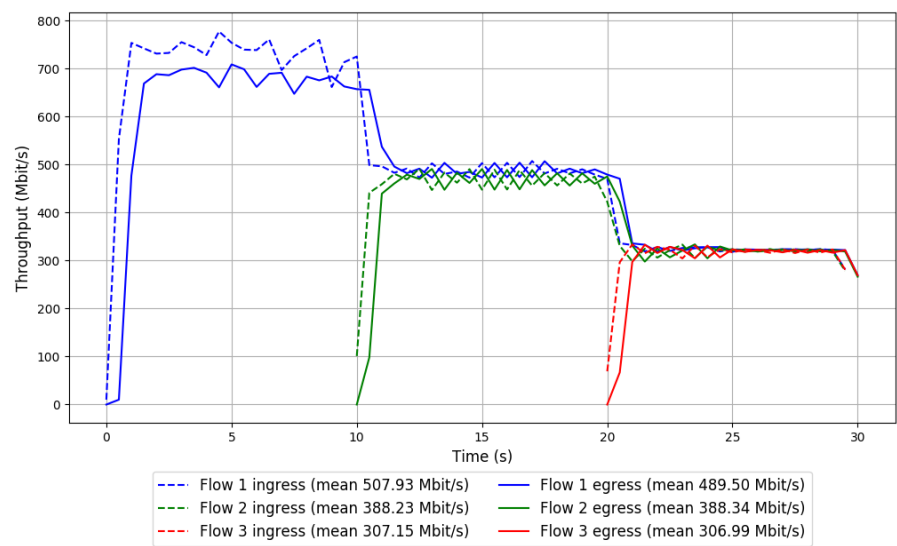
-- Flow 3:

Average throughput: 306.99 Mbit/s

95th percentile per-packet one-way delay: 4.717 ms

Loss rate: 0.26%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-05-25 13:20:16

End at: 2018-05-25 13:20:46

Local clock offset: 0.412 ms

Remote clock offset: 0.197 ms

Below is generated by plot.py at 2018-05-25 17:29:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 877.92 Mbit/s

95th percentile per-packet one-way delay: 38.652 ms

Loss rate: 1.86%

-- Flow 1:

Average throughput: 522.86 Mbit/s

95th percentile per-packet one-way delay: 39.495 ms

Loss rate: 2.98%

-- Flow 2:

Average throughput: 381.24 Mbit/s

95th percentile per-packet one-way delay: 4.159 ms

Loss rate: 0.11%

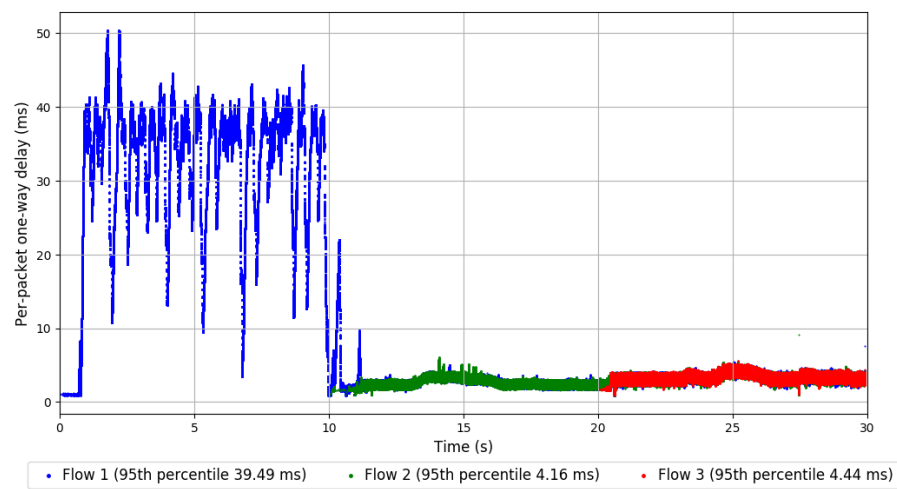
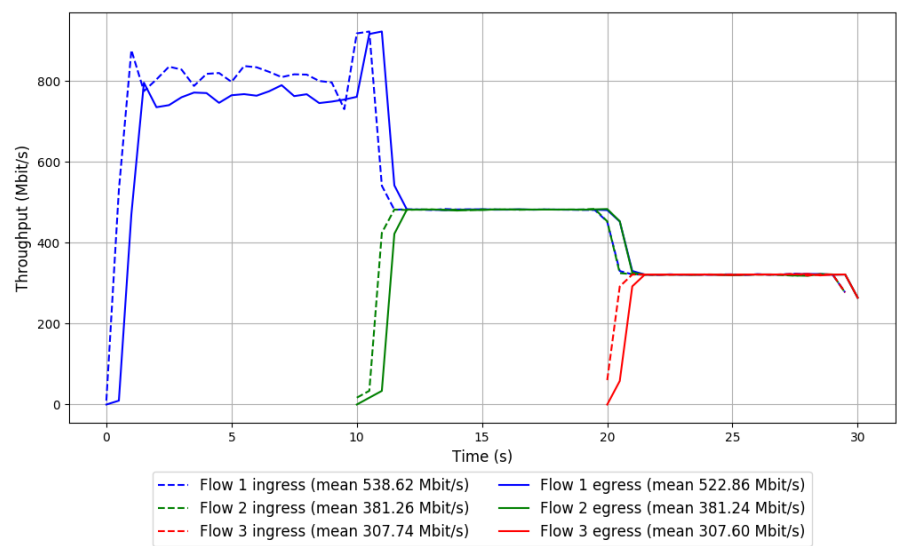
-- Flow 3:

Average throughput: 307.60 Mbit/s

95th percentile per-packet one-way delay: 4.443 ms

Loss rate: 0.27%

Run 3: Report of FillP — Data Link

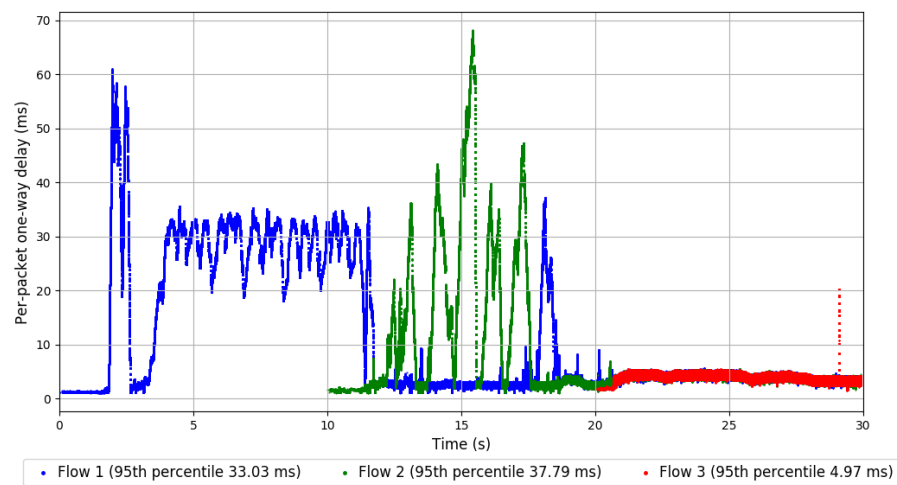
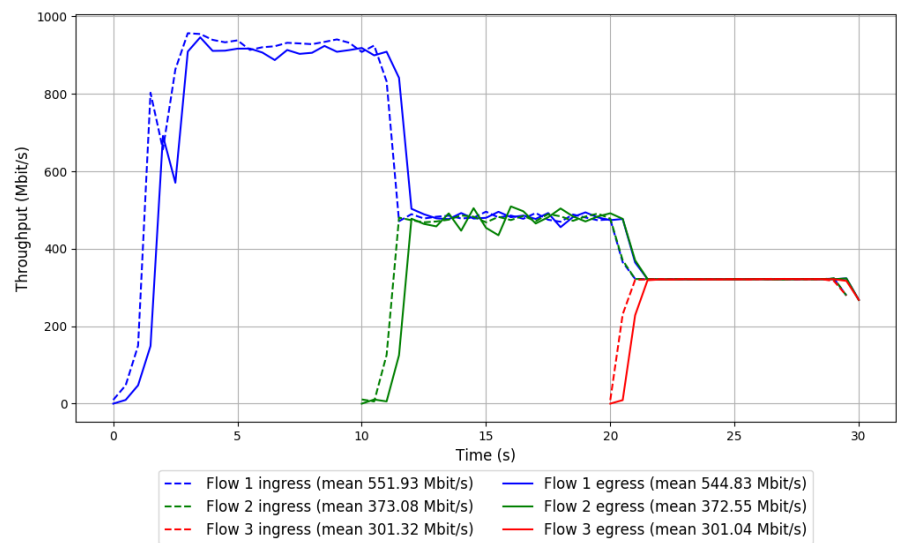


Run 4: Statistics of FillP

Start at: 2018-05-25 13:45:41
End at: 2018-05-25 13:46:11
Local clock offset: 0.165 ms
Remote clock offset: -0.364 ms

Below is generated by plot.py at 2018-05-25 17:30:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 892.39 Mbit/s
95th percentile per-packet one-way delay: 33.059 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 544.83 Mbit/s
95th percentile per-packet one-way delay: 33.032 ms
Loss rate: 1.35%
-- Flow 2:
Average throughput: 372.55 Mbit/s
95th percentile per-packet one-way delay: 37.794 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 301.04 Mbit/s
95th percentile per-packet one-way delay: 4.971 ms
Loss rate: 0.28%

Run 4: Report of FillP — Data Link

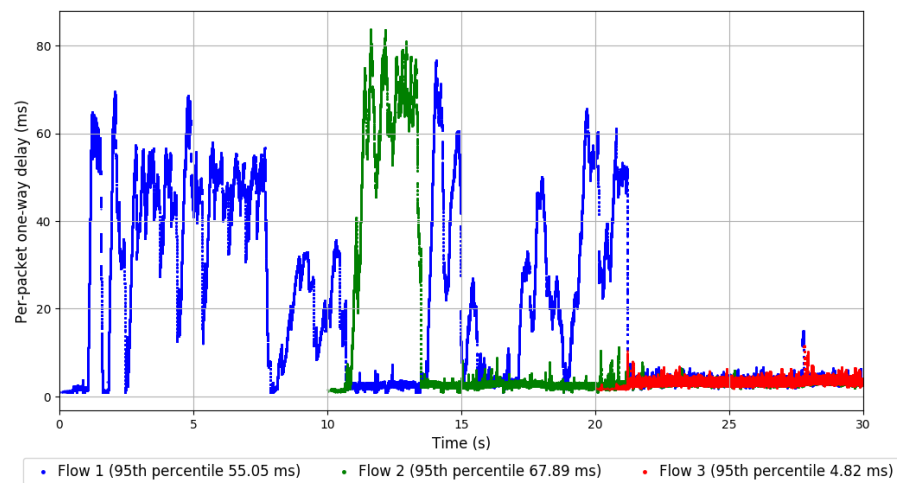
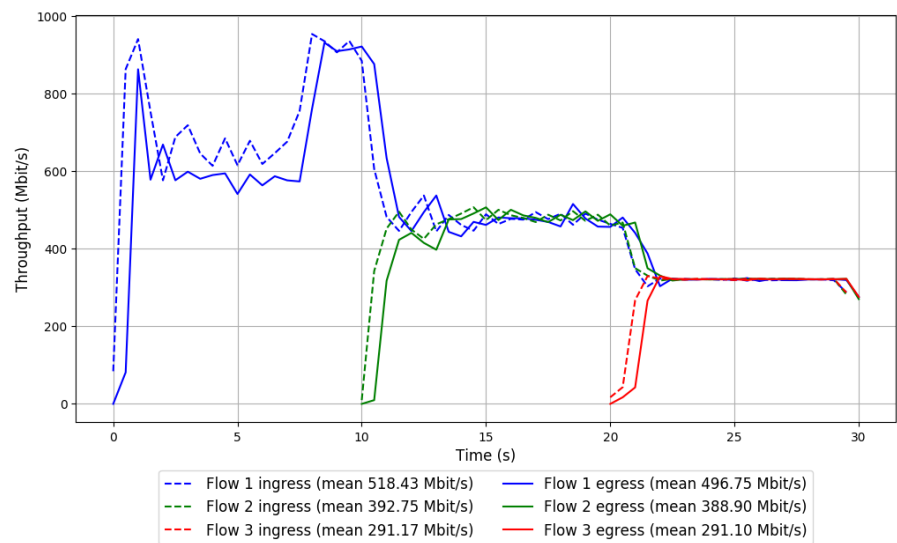


Run 5: Statistics of FillP

Start at: 2018-05-25 14:11:13
End at: 2018-05-25 14:11:43
Local clock offset: 0.078 ms
Remote clock offset: -0.059 ms

Below is generated by plot.py at 2018-05-25 17:30:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 851.63 Mbit/s
95th percentile per-packet one-way delay: 57.168 ms
Loss rate: 2.86%
-- Flow 1:
Average throughput: 496.75 Mbit/s
95th percentile per-packet one-way delay: 55.046 ms
Loss rate: 4.25%
-- Flow 2:
Average throughput: 388.90 Mbit/s
95th percentile per-packet one-way delay: 67.890 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 291.10 Mbit/s
95th percentile per-packet one-way delay: 4.821 ms
Loss rate: 0.23%

Run 5: Report of FillP — Data Link

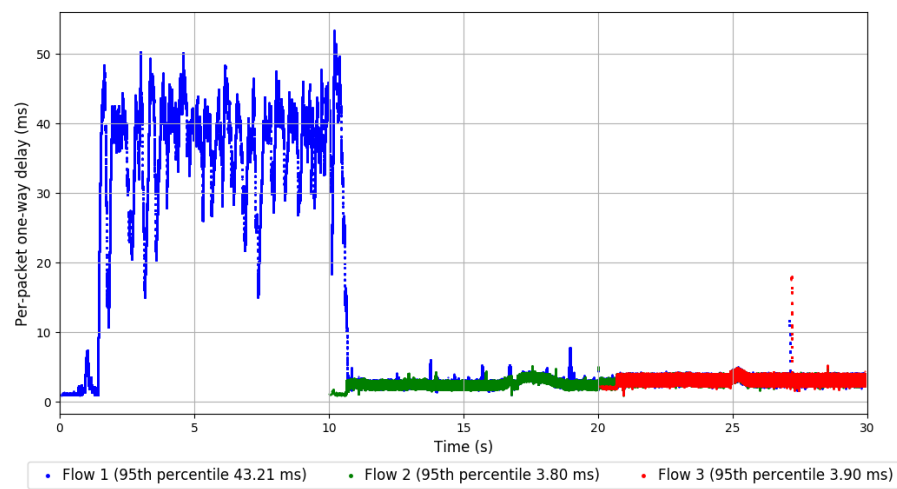
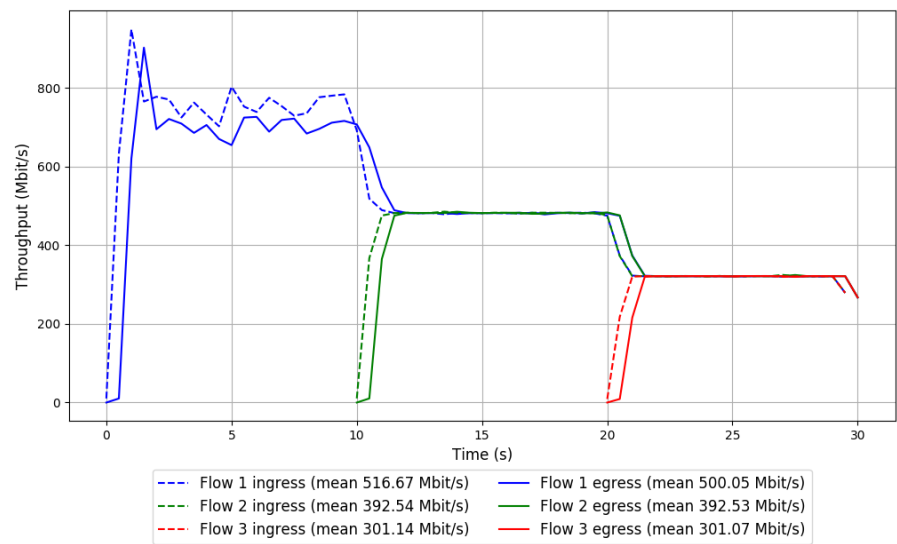


Run 6: Statistics of FillP

Start at: 2018-05-25 14:36:24
End at: 2018-05-25 14:36:54
Local clock offset: 0.04 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2018-05-25 17:30:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 860.72 Mbit/s
95th percentile per-packet one-way delay: 41.762 ms
Loss rate: 1.98%
-- Flow 1:
Average throughput: 500.05 Mbit/s
95th percentile per-packet one-way delay: 43.210 ms
Loss rate: 3.28%
-- Flow 2:
Average throughput: 392.53 Mbit/s
95th percentile per-packet one-way delay: 3.798 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 301.07 Mbit/s
95th percentile per-packet one-way delay: 3.899 ms
Loss rate: 0.22%

Run 6: Report of FillP — Data Link

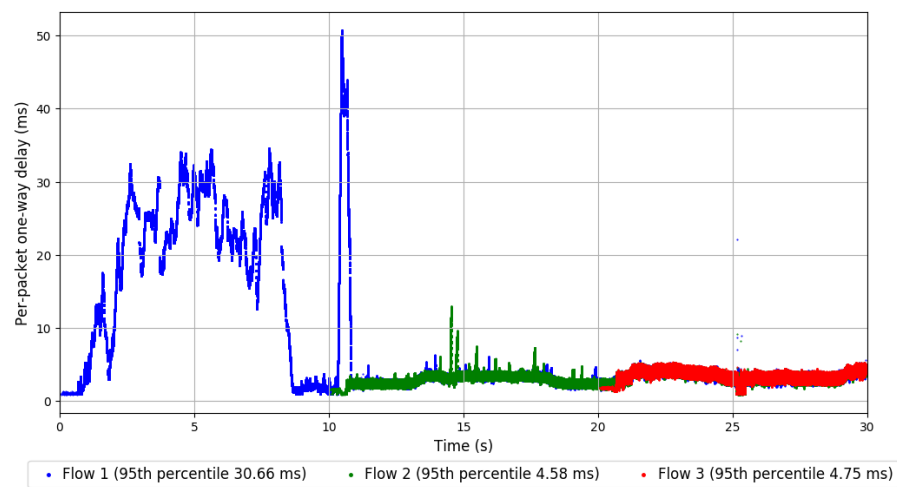
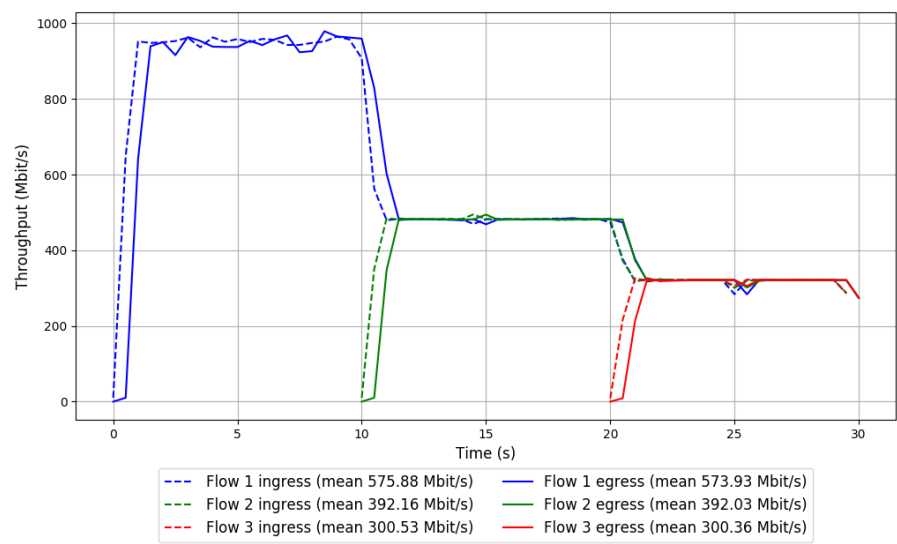


Run 7: Statistics of FillP

Start at: 2018-05-25 15:01:51
End at: 2018-05-25 15:02:21
Local clock offset: 0.028 ms
Remote clock offset: -0.237 ms

Below is generated by plot.py at 2018-05-25 17:32:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 934.01 Mbit/s
95th percentile per-packet one-way delay: 29.259 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 573.93 Mbit/s
95th percentile per-packet one-way delay: 30.661 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 392.03 Mbit/s
95th percentile per-packet one-way delay: 4.583 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 300.36 Mbit/s
95th percentile per-packet one-way delay: 4.750 ms
Loss rate: 0.27%

Run 7: Report of FillP — Data Link

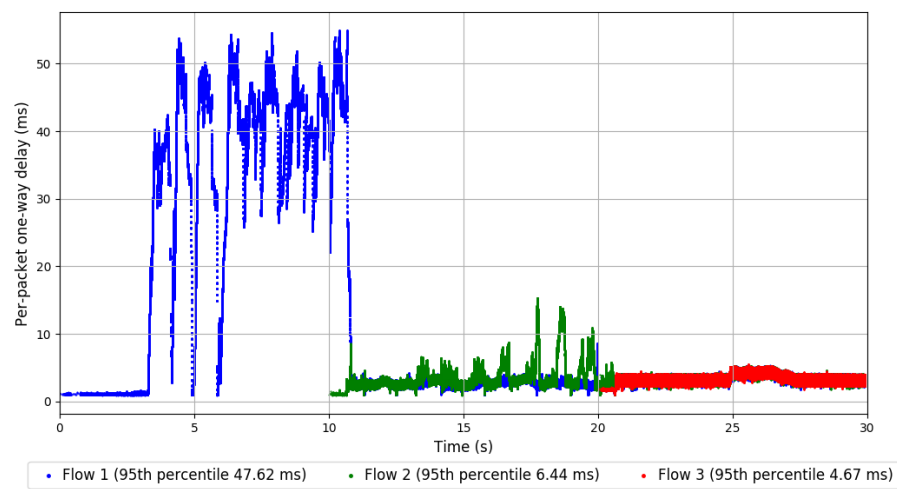
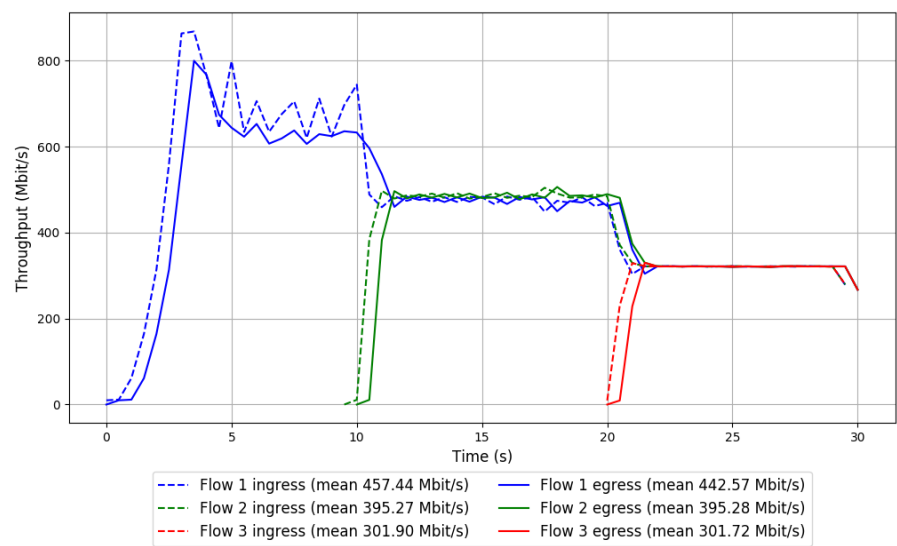


Run 8: Statistics of FillP

Start at: 2018-05-25 15:27:24
End at: 2018-05-25 15:27:54
Local clock offset: -0.052 ms
Remote clock offset: -0.361 ms

Below is generated by plot.py at 2018-05-25 17:32:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 805.57 Mbit/s
95th percentile per-packet one-way delay: 45.368 ms
Loss rate: 1.91%
-- Flow 1:
Average throughput: 442.57 Mbit/s
95th percentile per-packet one-way delay: 47.618 ms
Loss rate: 3.32%
-- Flow 2:
Average throughput: 395.28 Mbit/s
95th percentile per-packet one-way delay: 6.437 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 301.72 Mbit/s
95th percentile per-packet one-way delay: 4.667 ms
Loss rate: 0.28%

Run 8: Report of FillP — Data Link

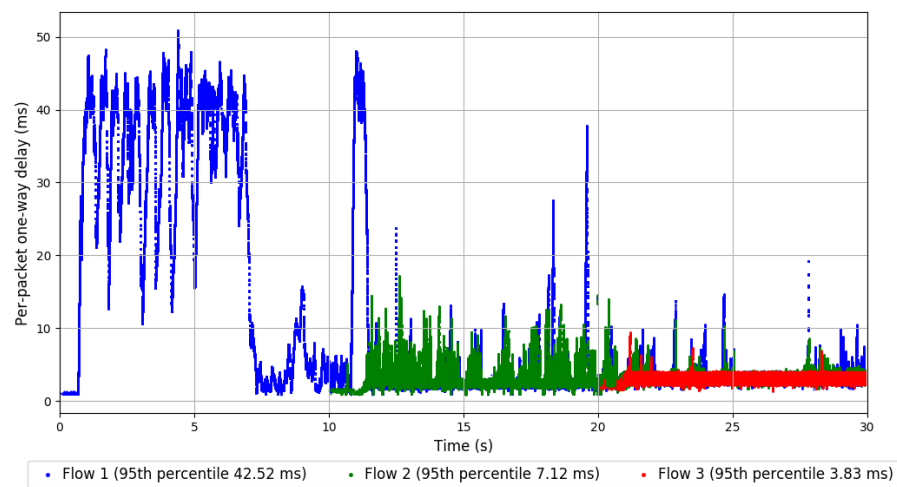
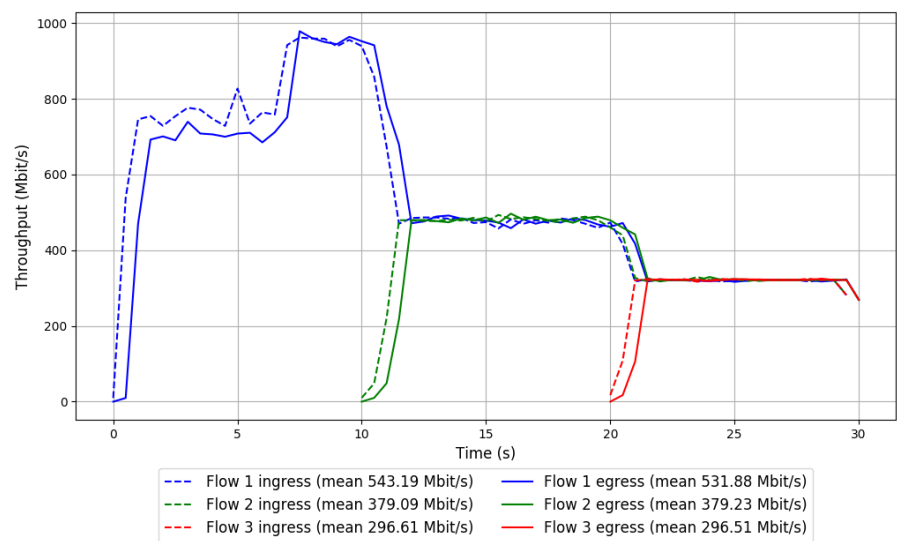


Run 9: Statistics of FillP

Start at: 2018-05-25 15:52:54
End at: 2018-05-25 15:53:24
Local clock offset: 0.258 ms
Remote clock offset: -0.143 ms

Below is generated by plot.py at 2018-05-25 17:36:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 882.21 Mbit/s
95th percentile per-packet one-way delay: 41.380 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 531.88 Mbit/s
95th percentile per-packet one-way delay: 42.525 ms
Loss rate: 2.16%
-- Flow 2:
Average throughput: 379.23 Mbit/s
95th percentile per-packet one-way delay: 7.123 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 296.51 Mbit/s
95th percentile per-packet one-way delay: 3.830 ms
Loss rate: 0.25%

Run 9: Report of FillP — Data Link

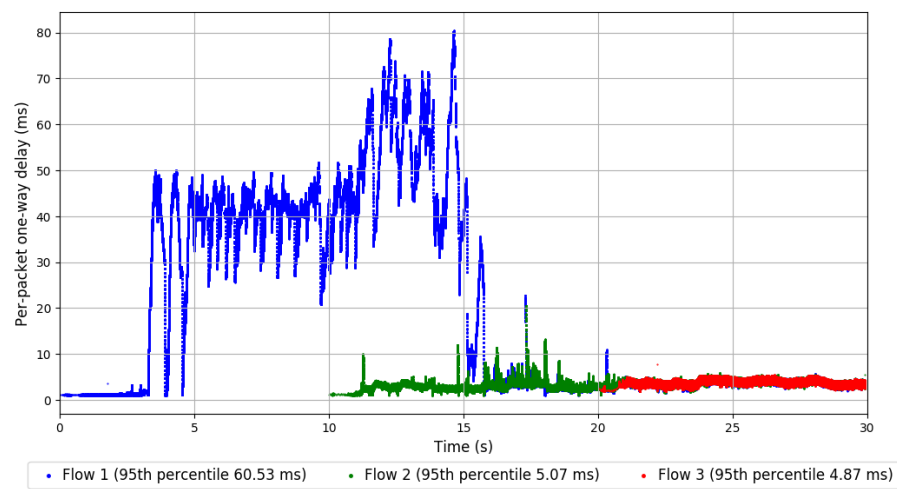
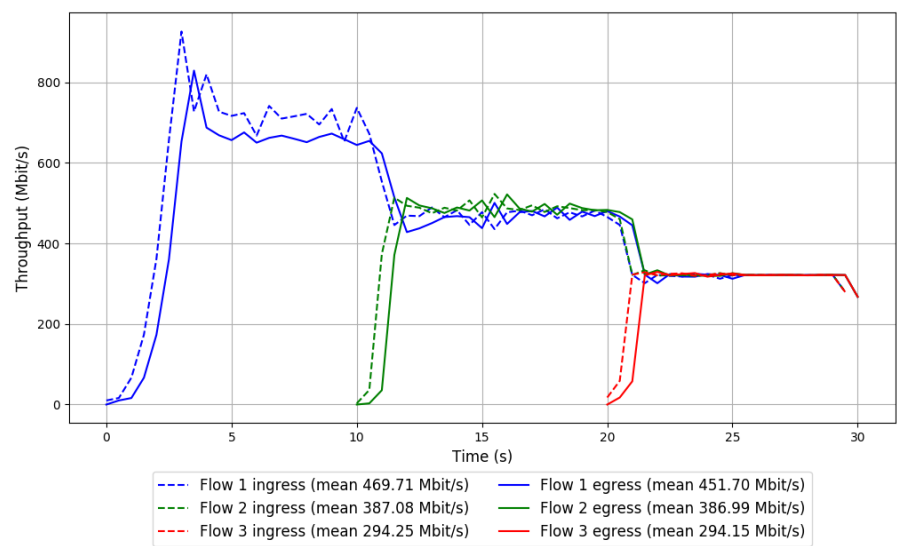


Run 10: Statistics of FillP

Start at: 2018-05-25 16:18:03
End at: 2018-05-25 16:18:33
Local clock offset: 0.083 ms
Remote clock offset: -0.168 ms

Below is generated by plot.py at 2018-05-25 17:36:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 806.47 Mbit/s
95th percentile per-packet one-way delay: 50.206 ms
Loss rate: 2.29%
-- Flow 1:
Average throughput: 451.70 Mbit/s
95th percentile per-packet one-way delay: 60.533 ms
Loss rate: 3.90%
-- Flow 2:
Average throughput: 386.99 Mbit/s
95th percentile per-packet one-way delay: 5.066 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 294.15 Mbit/s
95th percentile per-packet one-way delay: 4.873 ms
Loss rate: 0.26%

Run 10: Report of FillP — Data Link

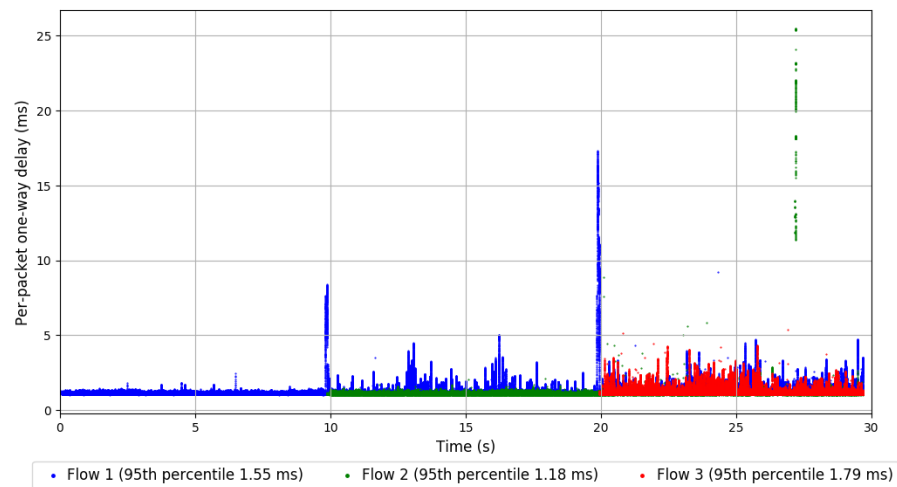
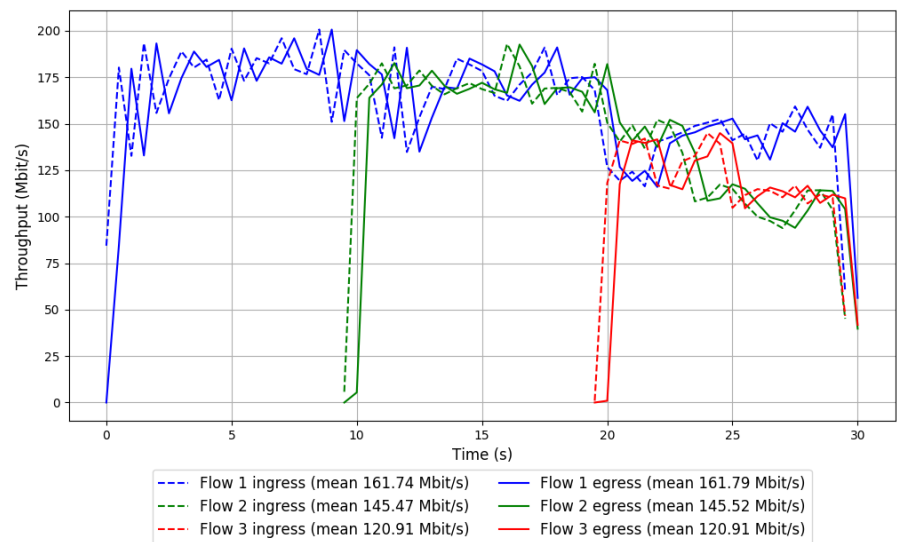


```
Run 1: Statistics of Indigo

Start at: 2018-05-25 12:14:46
End at: 2018-05-25 12:15:16
Local clock offset: 0.308 ms
Remote clock offset: 0.167 ms

# Below is generated by plot.py at 2018-05-25 17:36:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 298.71 Mbit/s
95th percentile per-packet one-way delay: 1.438 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 161.79 Mbit/s
95th percentile per-packet one-way delay: 1.548 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 145.52 Mbit/s
95th percentile per-packet one-way delay: 1.183 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 120.91 Mbit/s
95th percentile per-packet one-way delay: 1.794 ms
Loss rate: 0.22%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-05-25 12:40:19

End at: 2018-05-25 12:40:49

Local clock offset: 0.176 ms

Remote clock offset: 0.276 ms

Below is generated by plot.py at 2018-05-25 17:36:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 295.42 Mbit/s

95th percentile per-packet one-way delay: 1.254 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 159.22 Mbit/s

95th percentile per-packet one-way delay: 1.260 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 137.01 Mbit/s

95th percentile per-packet one-way delay: 1.229 ms

Loss rate: 0.09%

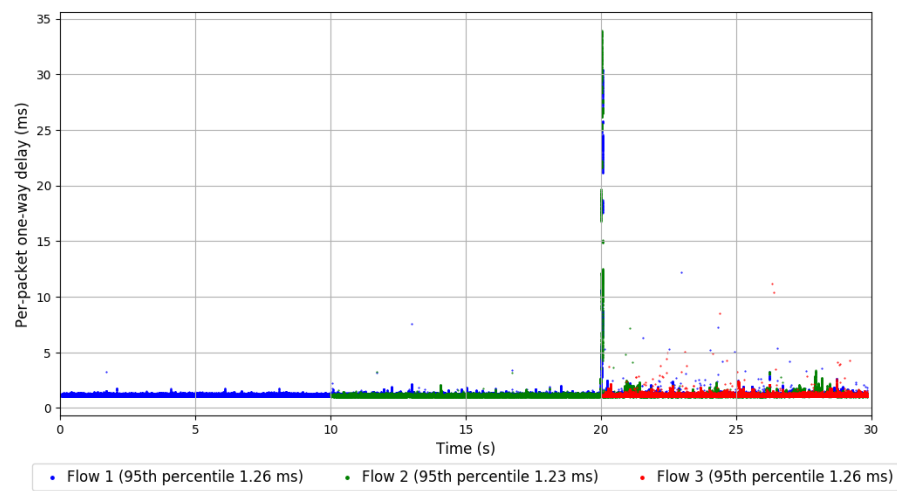
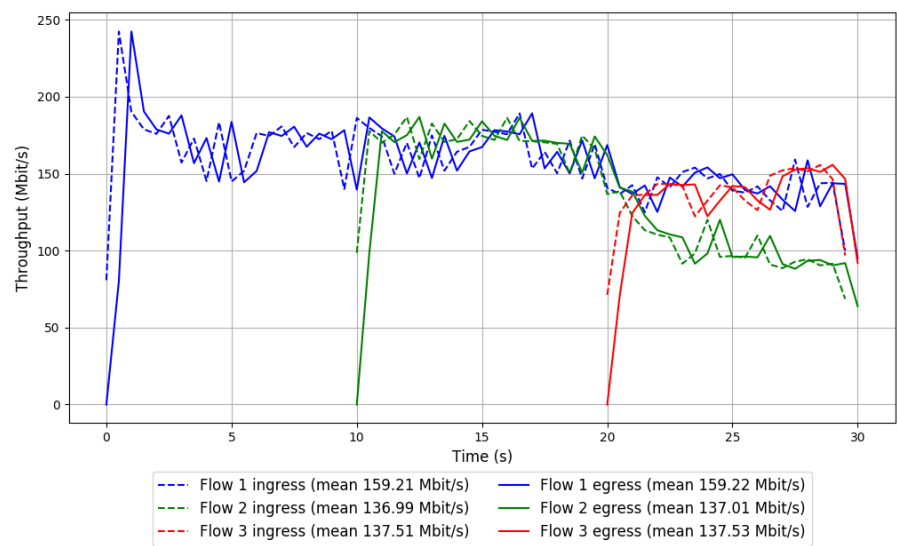
-- Flow 3:

Average throughput: 137.53 Mbit/s

95th percentile per-packet one-way delay: 1.265 ms

Loss rate: 0.18%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-05-25 13:06:00

End at: 2018-05-25 13:06:30

Local clock offset: 0.234 ms

Remote clock offset: 0.113 ms

Below is generated by plot.py at 2018-05-25 17:36:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 298.25 Mbit/s

95th percentile per-packet one-way delay: 1.066 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 154.49 Mbit/s

95th percentile per-packet one-way delay: 1.060 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 157.81 Mbit/s

95th percentile per-packet one-way delay: 1.059 ms

Loss rate: 0.08%

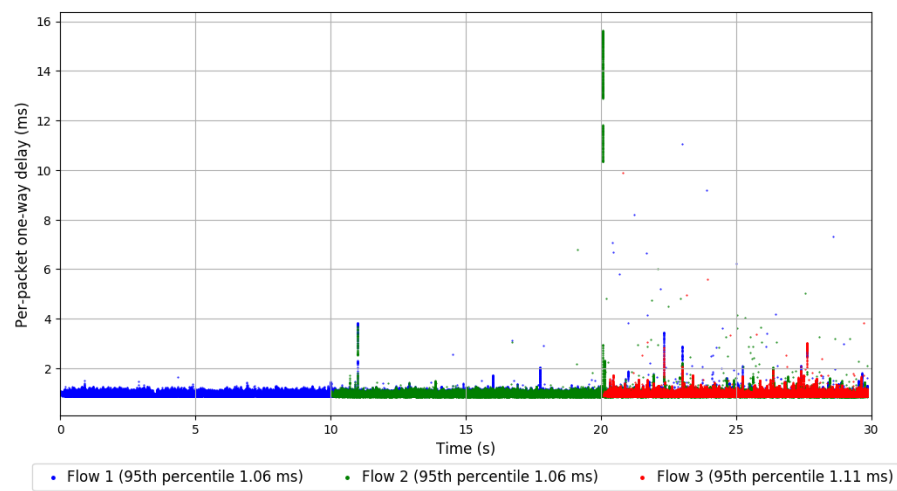
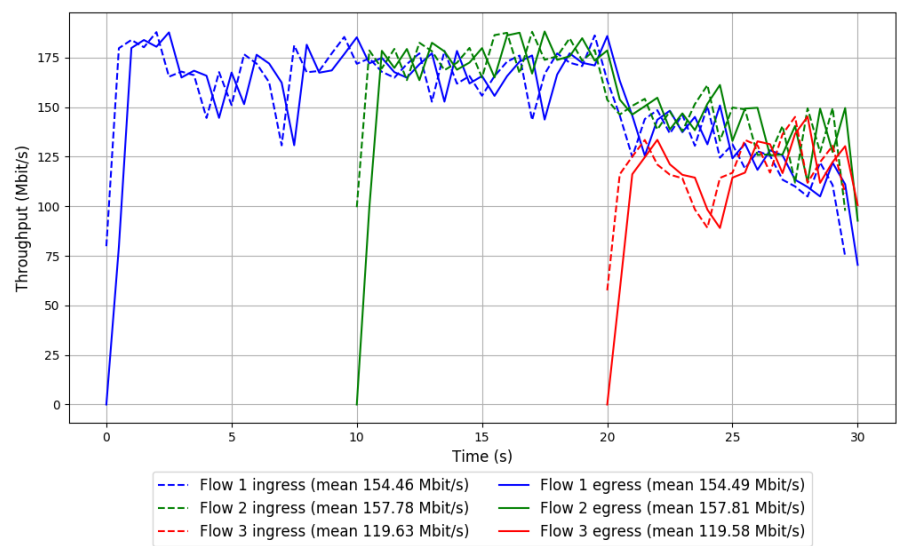
-- Flow 3:

Average throughput: 119.58 Mbit/s

95th percentile per-packet one-way delay: 1.109 ms

Loss rate: 0.26%

Run 3: Report of Indigo — Data Link

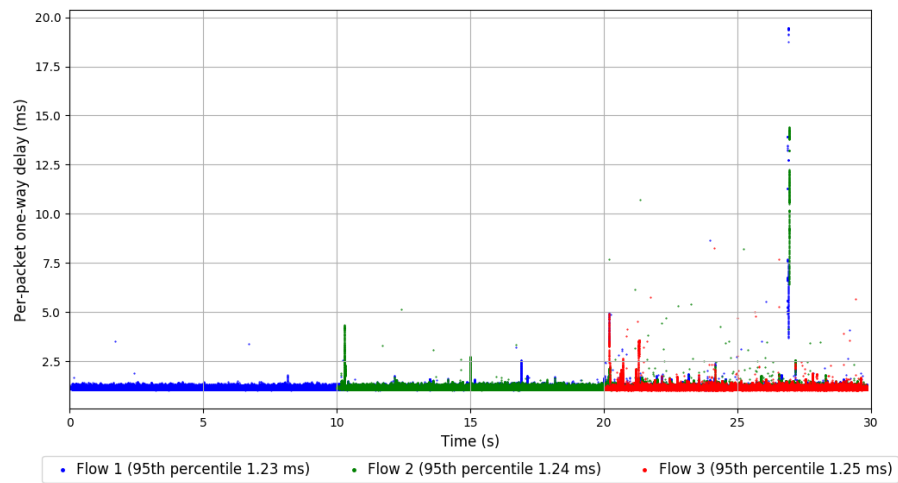
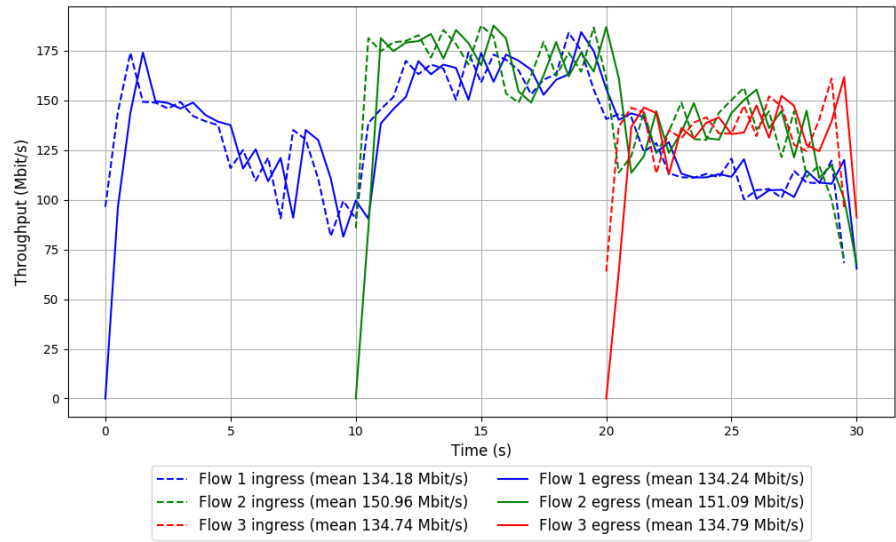


Run 4: Statistics of Indigo

Start at: 2018-05-25 13:31:28
End at: 2018-05-25 13:31:58
Local clock offset: 0.348 ms
Remote clock offset: -0.216 ms

Below is generated by plot.py at 2018-05-25 17:36:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 278.87 Mbit/s
95th percentile per-packet one-way delay: 1.239 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 134.24 Mbit/s
95th percentile per-packet one-way delay: 1.231 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 151.09 Mbit/s
95th percentile per-packet one-way delay: 1.243 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 134.79 Mbit/s
95th percentile per-packet one-way delay: 1.255 ms
Loss rate: 0.20%

Run 4: Report of Indigo — Data Link

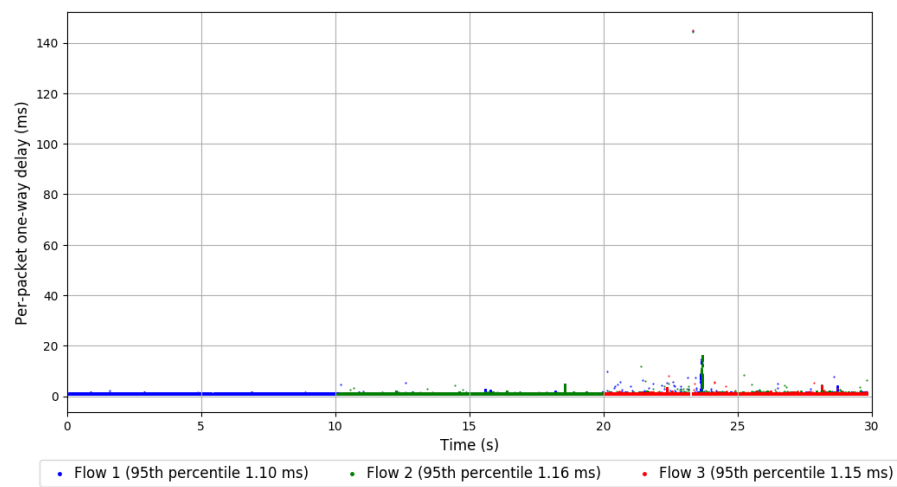
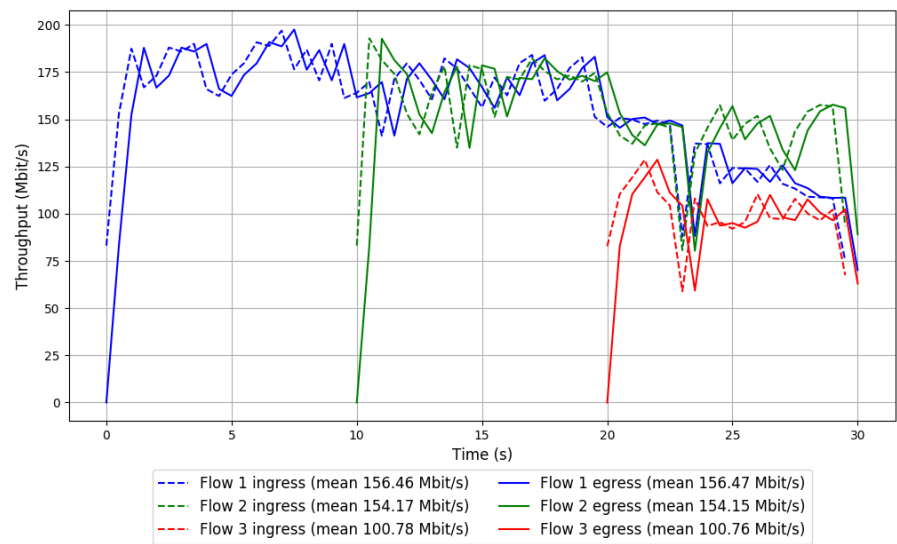


Run 5: Statistics of Indigo

Start at: 2018-05-25 13:56:58
End at: 2018-05-25 13:57:28
Local clock offset: 0.096 ms
Remote clock offset: -0.286 ms

Below is generated by plot.py at 2018-05-25 17:36:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 291.59 Mbit/s
95th percentile per-packet one-way delay: 1.130 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 156.47 Mbit/s
95th percentile per-packet one-way delay: 1.105 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 154.15 Mbit/s
95th percentile per-packet one-way delay: 1.157 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 100.76 Mbit/s
95th percentile per-packet one-way delay: 1.148 ms
Loss rate: 0.22%

Run 5: Report of Indigo — Data Link

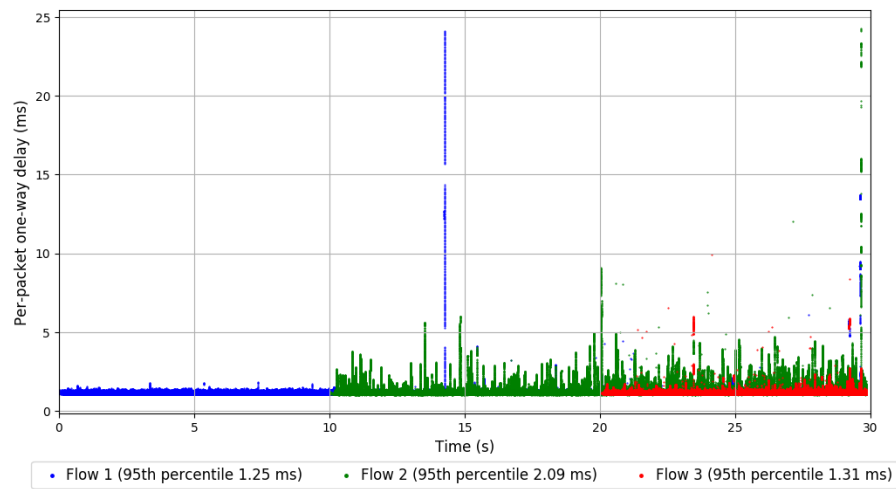
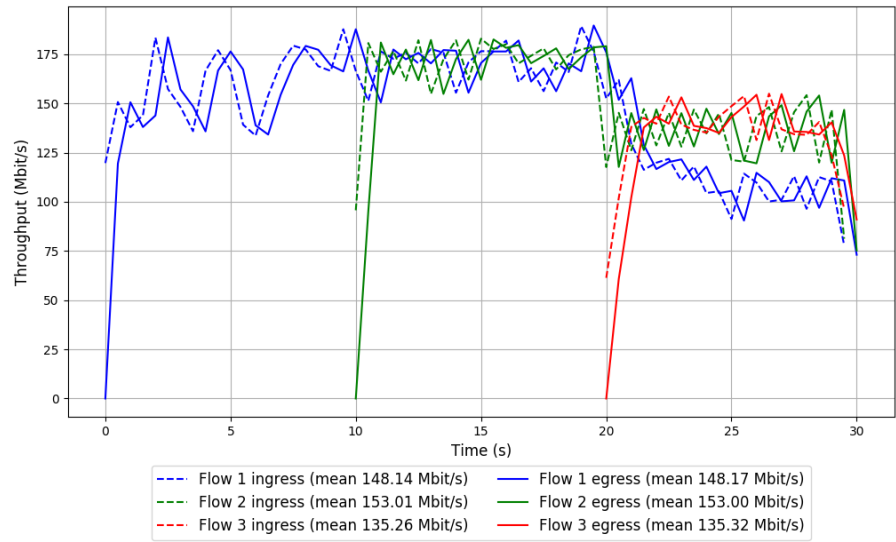


Run 6: Statistics of Indigo

Start at: 2018-05-25 14:22:17
End at: 2018-05-25 14:22:47
Local clock offset: 0.063 ms
Remote clock offset: -0.096 ms

Below is generated by plot.py at 2018-05-25 17:36:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 293.95 Mbit/s
95th percentile per-packet one-way delay: 1.482 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 148.17 Mbit/s
95th percentile per-packet one-way delay: 1.253 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 153.00 Mbit/s
95th percentile per-packet one-way delay: 2.093 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 135.32 Mbit/s
95th percentile per-packet one-way delay: 1.308 ms
Loss rate: 0.22%

Run 6: Report of Indigo — Data Link

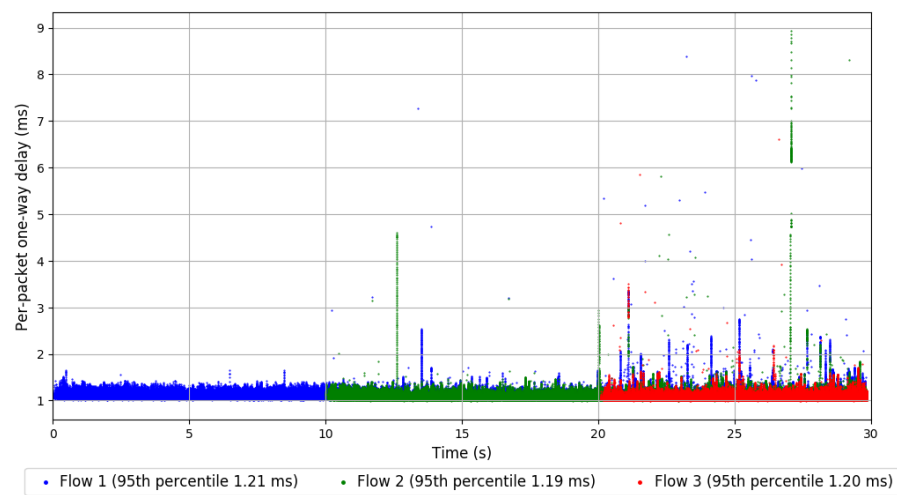
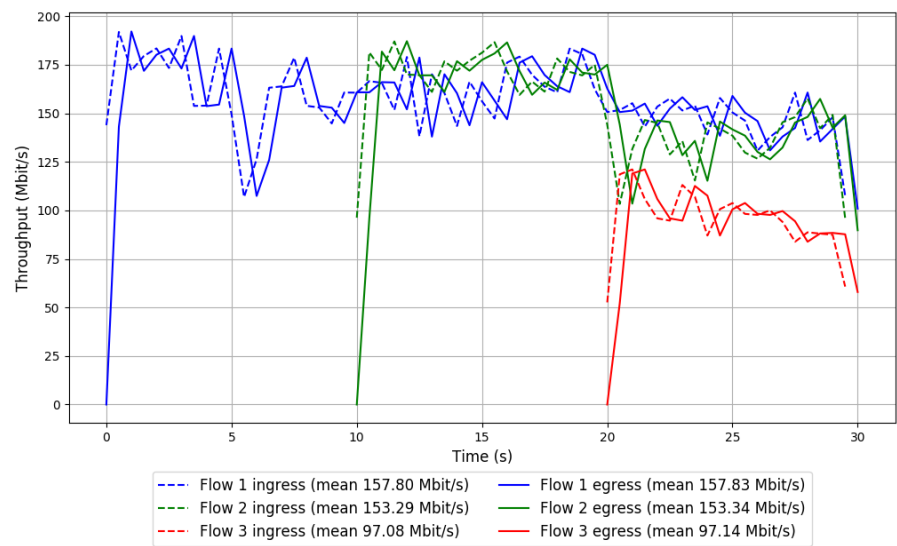


Run 7: Statistics of Indigo

Start at: 2018-05-25 14:47:42
End at: 2018-05-25 14:48:12
Local clock offset: 0.037 ms
Remote clock offset: -0.264 ms

Below is generated by plot.py at 2018-05-25 17:37:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 291.47 Mbit/s
95th percentile per-packet one-way delay: 1.205 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 157.83 Mbit/s
95th percentile per-packet one-way delay: 1.213 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 153.34 Mbit/s
95th percentile per-packet one-way delay: 1.193 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 97.14 Mbit/s
95th percentile per-packet one-way delay: 1.195 ms
Loss rate: 0.15%

Run 7: Report of Indigo — Data Link

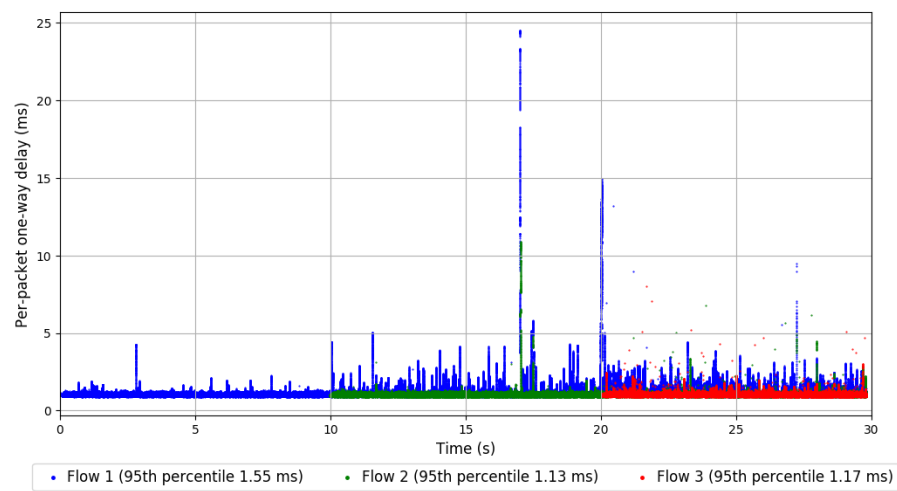
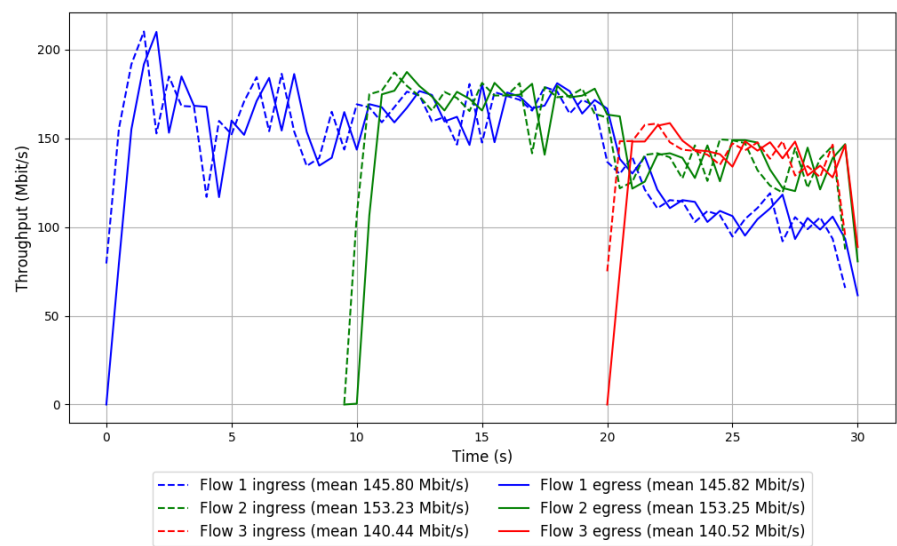


Run 8: Statistics of Indigo

Start at: 2018-05-25 15:13:08
End at: 2018-05-25 15:13:38
Local clock offset: -0.052 ms
Remote clock offset: -0.319 ms

Below is generated by plot.py at 2018-05-25 17:38:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 293.85 Mbit/s
95th percentile per-packet one-way delay: 1.284 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 145.82 Mbit/s
95th percentile per-packet one-way delay: 1.550 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 153.25 Mbit/s
95th percentile per-packet one-way delay: 1.131 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 140.52 Mbit/s
95th percentile per-packet one-way delay: 1.169 ms
Loss rate: 0.25%

Run 8: Report of Indigo — Data Link

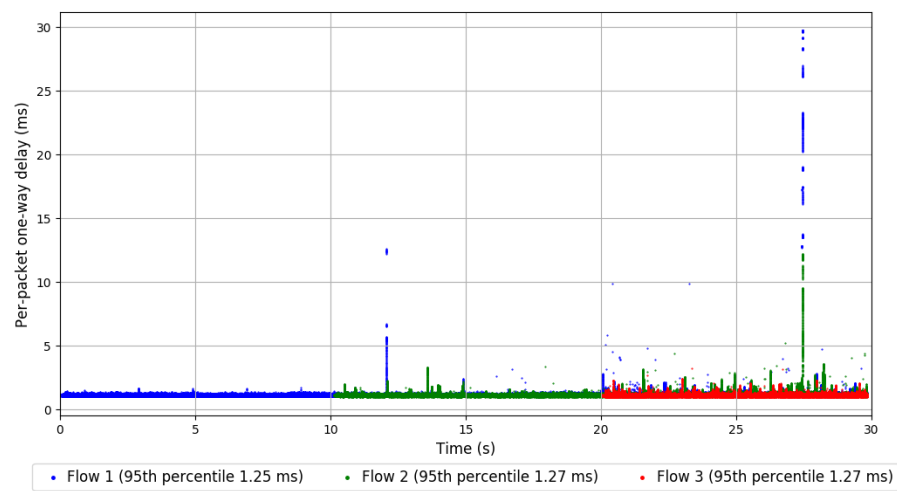
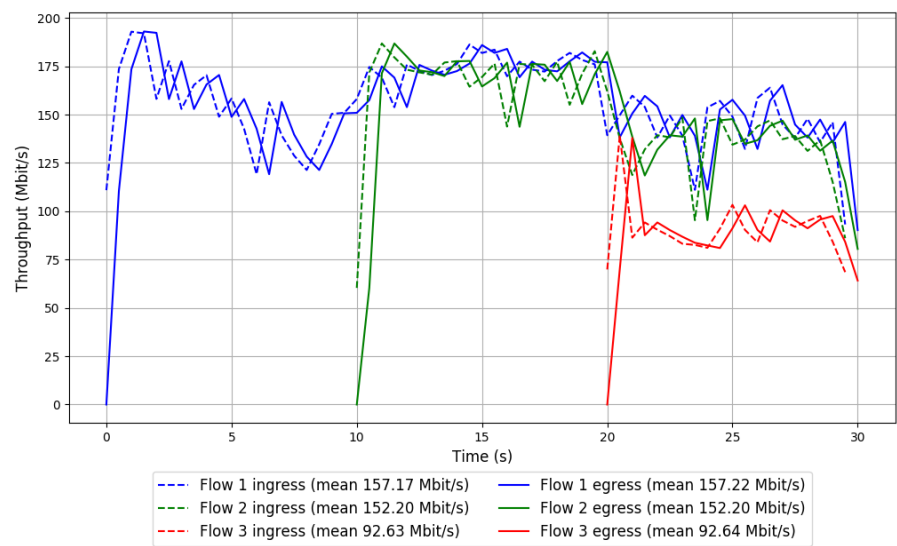


Run 9: Statistics of Indigo

Start at: 2018-05-25 15:38:38
End at: 2018-05-25 15:39:08
Local clock offset: 0.185 ms
Remote clock offset: -0.374 ms

Below is generated by plot.py at 2018-05-25 17:38:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 288.04 Mbit/s
95th percentile per-packet one-way delay: 1.255 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 157.22 Mbit/s
95th percentile per-packet one-way delay: 1.245 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 152.20 Mbit/s
95th percentile per-packet one-way delay: 1.272 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 92.64 Mbit/s
95th percentile per-packet one-way delay: 1.273 ms
Loss rate: 0.25%

Run 9: Report of Indigo — Data Link

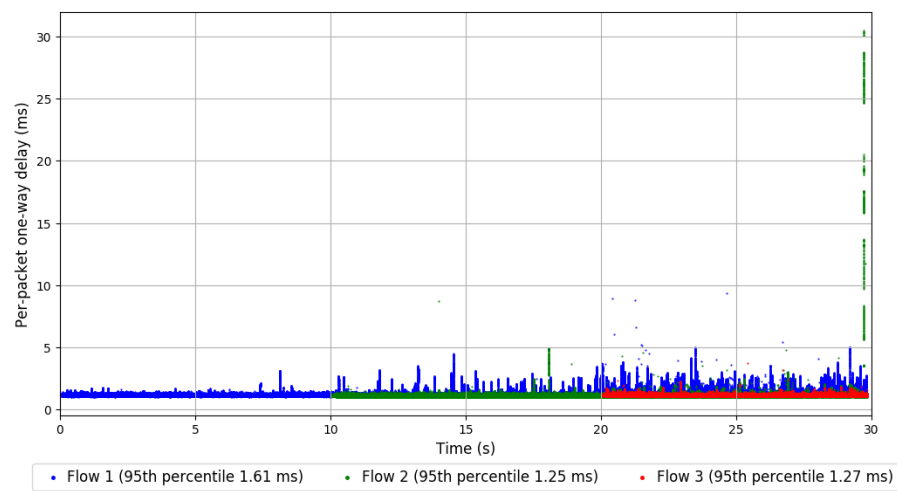
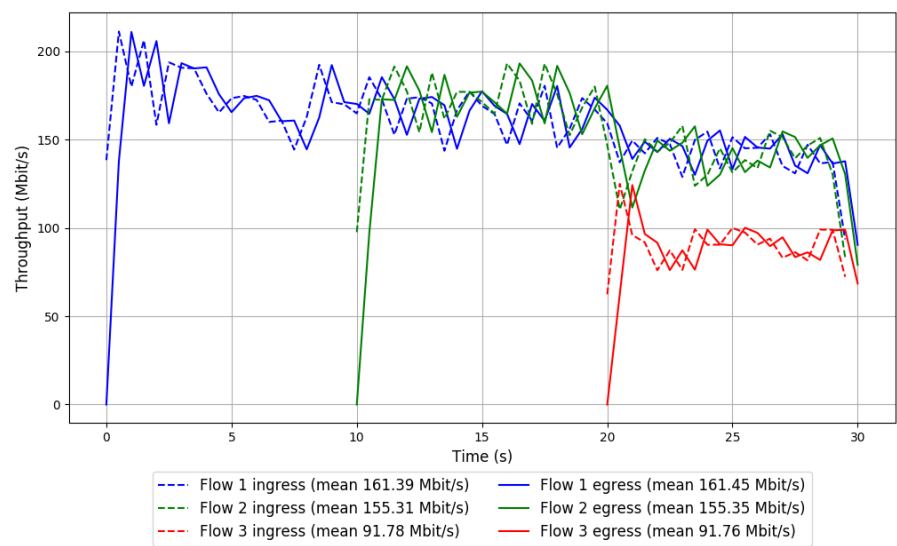


Run 10: Statistics of Indigo

Start at: 2018-05-25 16:03:54
End at: 2018-05-25 16:04:24
Local clock offset: 0.193 ms
Remote clock offset: -0.262 ms

Below is generated by plot.py at 2018-05-25 17:38:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 294.65 Mbit/s
95th percentile per-packet one-way delay: 1.407 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 161.45 Mbit/s
95th percentile per-packet one-way delay: 1.607 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 155.35 Mbit/s
95th percentile per-packet one-way delay: 1.254 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 91.76 Mbit/s
95th percentile per-packet one-way delay: 1.274 ms
Loss rate: 0.23%

Run 10: Report of Indigo — Data Link

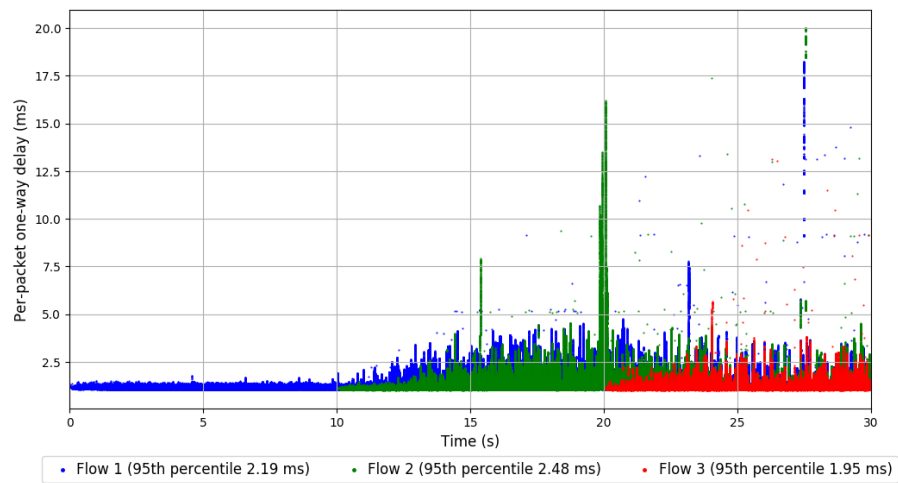
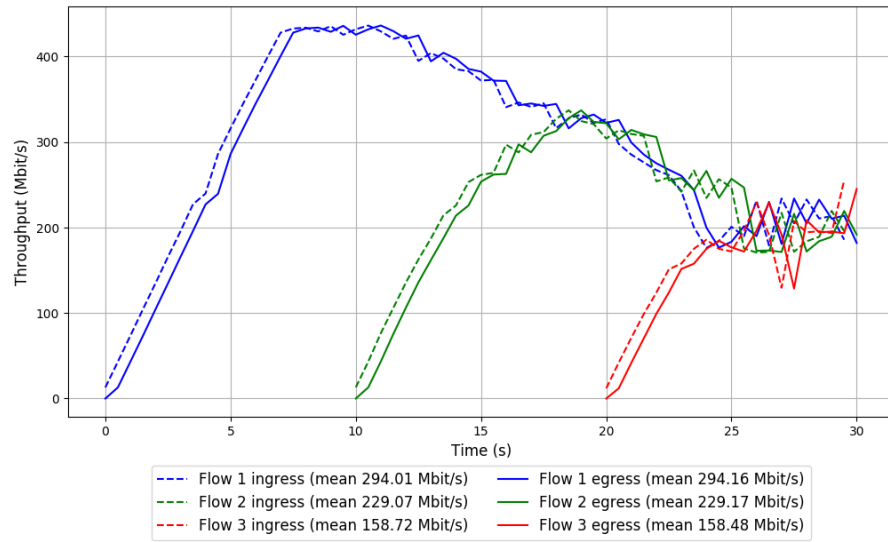


```
Run 1: Statistics of LEDBAT

Start at: 2018-05-25 12:10:06
End at: 2018-05-25 12:10:36
Local clock offset: 0.341 ms
Remote clock offset: 0.156 ms

# Below is generated by plot.py at 2018-05-25 17:41:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 499.22 Mbit/s
95th percentile per-packet one-way delay: 2.246 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 294.16 Mbit/s
95th percentile per-packet one-way delay: 2.187 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 229.17 Mbit/s
95th percentile per-packet one-way delay: 2.480 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 158.48 Mbit/s
95th percentile per-packet one-way delay: 1.948 ms
Loss rate: 0.34%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-05-25 12:35:34

End at: 2018-05-25 12:36:04

Local clock offset: 0.198 ms

Remote clock offset: 0.224 ms

Below is generated by plot.py at 2018-05-25 17:42:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 489.74 Mbit/s

95th percentile per-packet one-way delay: 2.020 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 291.80 Mbit/s

95th percentile per-packet one-way delay: 1.680 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 223.49 Mbit/s

95th percentile per-packet one-way delay: 2.044 ms

Loss rate: 0.07%

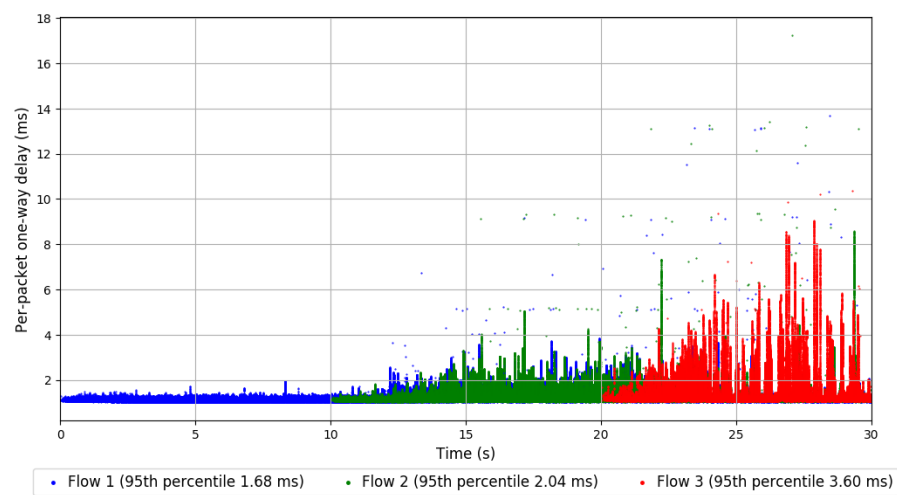
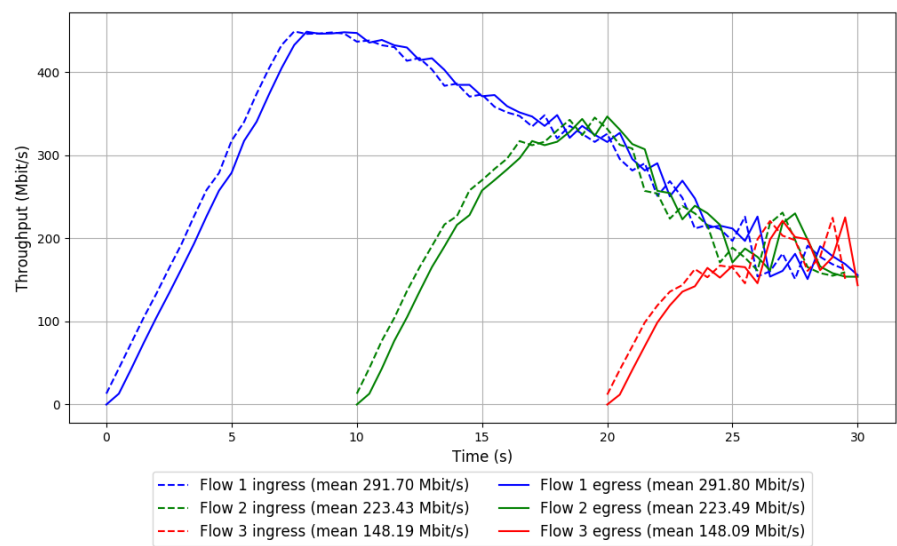
-- Flow 3:

Average throughput: 148.09 Mbit/s

95th percentile per-packet one-way delay: 3.598 ms

Loss rate: 0.26%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-05-25 13:01:17

End at: 2018-05-25 13:01:47

Local clock offset: 0.093 ms

Remote clock offset: 0.051 ms

Below is generated by plot.py at 2018-05-25 17:42:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 495.32 Mbit/s

95th percentile per-packet one-way delay: 1.723 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 297.48 Mbit/s

95th percentile per-packet one-way delay: 1.603 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 218.86 Mbit/s

95th percentile per-packet one-way delay: 1.873 ms

Loss rate: 0.13%

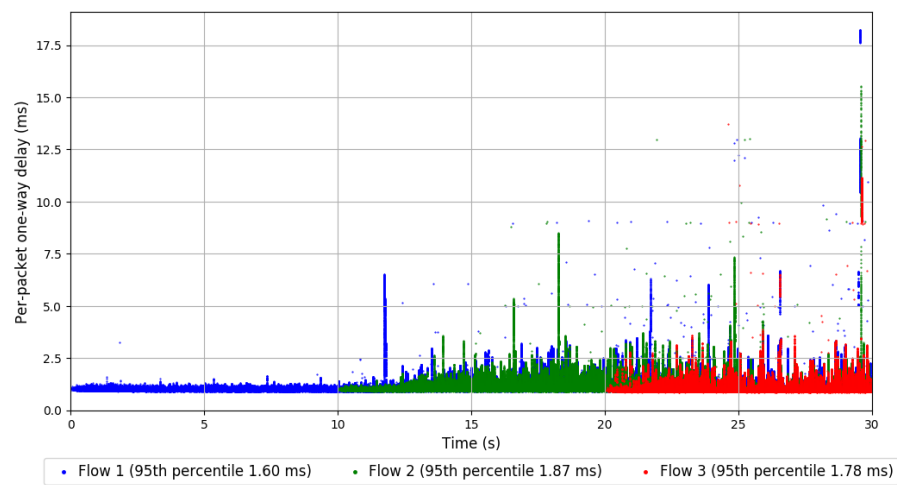
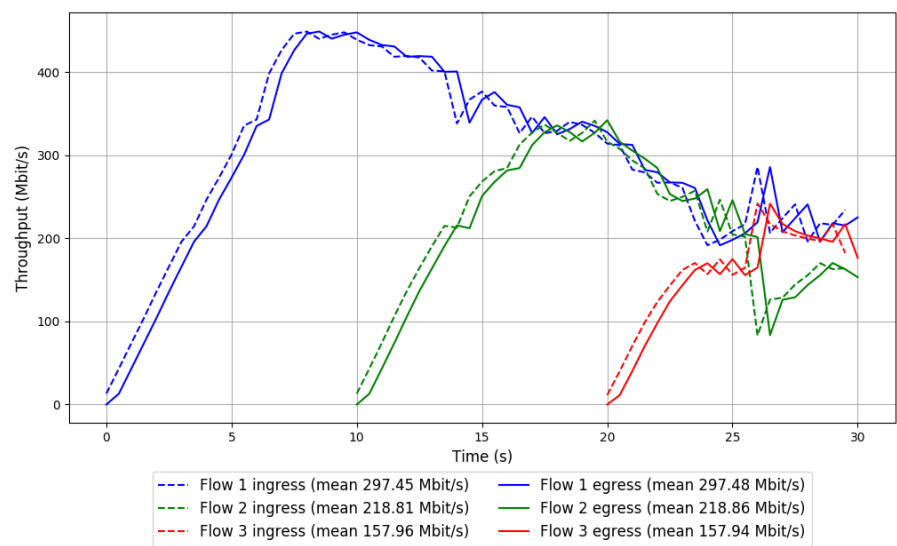
-- Flow 3:

Average throughput: 157.94 Mbit/s

95th percentile per-packet one-way delay: 1.777 ms

Loss rate: 0.21%

Run 3: Report of LEDBAT — Data Link

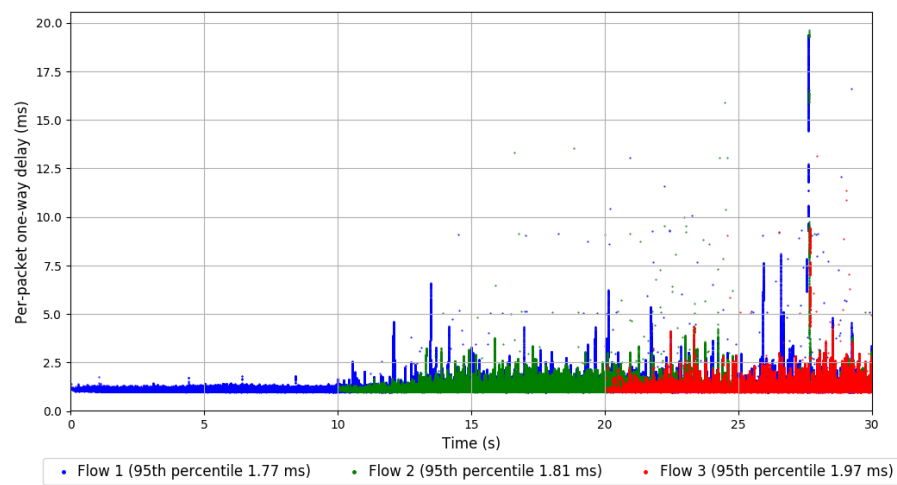
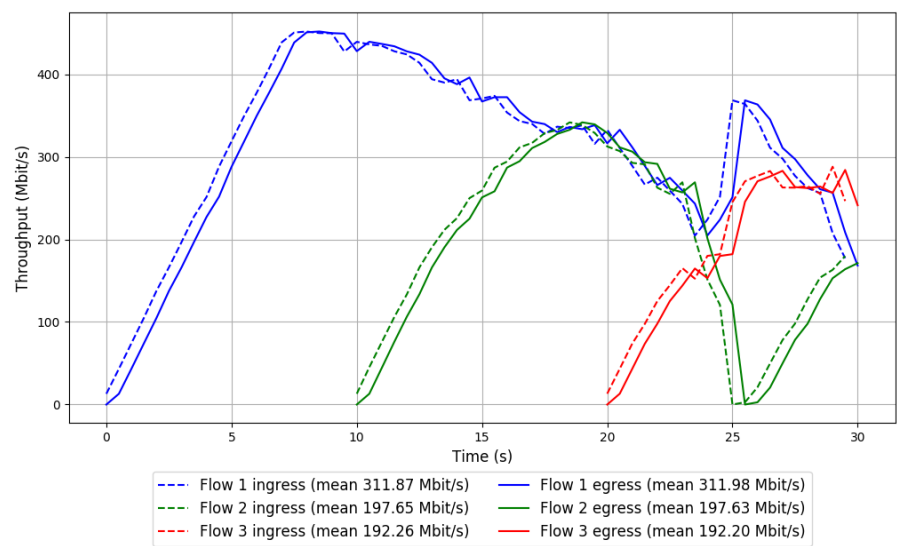


Run 4: Statistics of LEDBAT

Start at: 2018-05-25 13:26:44
End at: 2018-05-25 13:27:14
Local clock offset: 0.43 ms
Remote clock offset: -0.111 ms

Below is generated by plot.py at 2018-05-25 17:42:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 507.38 Mbit/s
95th percentile per-packet one-way delay: 1.814 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 311.98 Mbit/s
95th percentile per-packet one-way delay: 1.769 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 197.63 Mbit/s
95th percentile per-packet one-way delay: 1.811 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 192.20 Mbit/s
95th percentile per-packet one-way delay: 1.972 ms
Loss rate: 0.24%

Run 4: Report of LEDBAT — Data Link

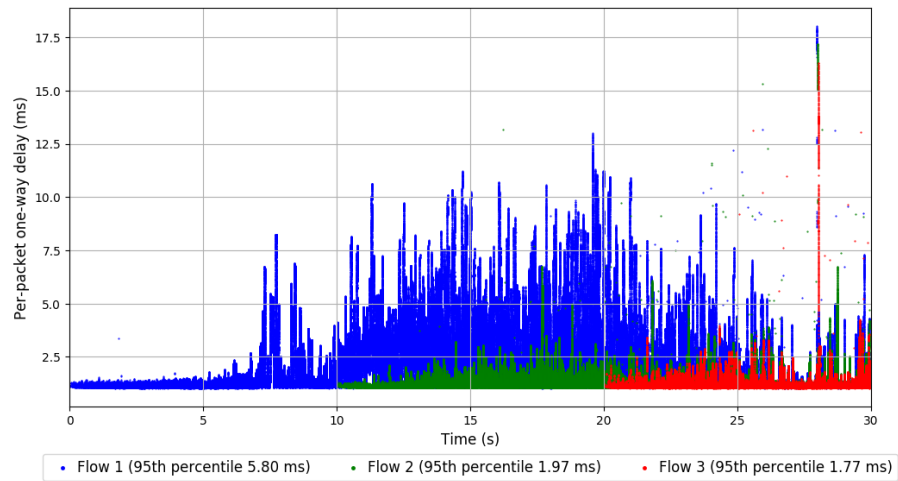
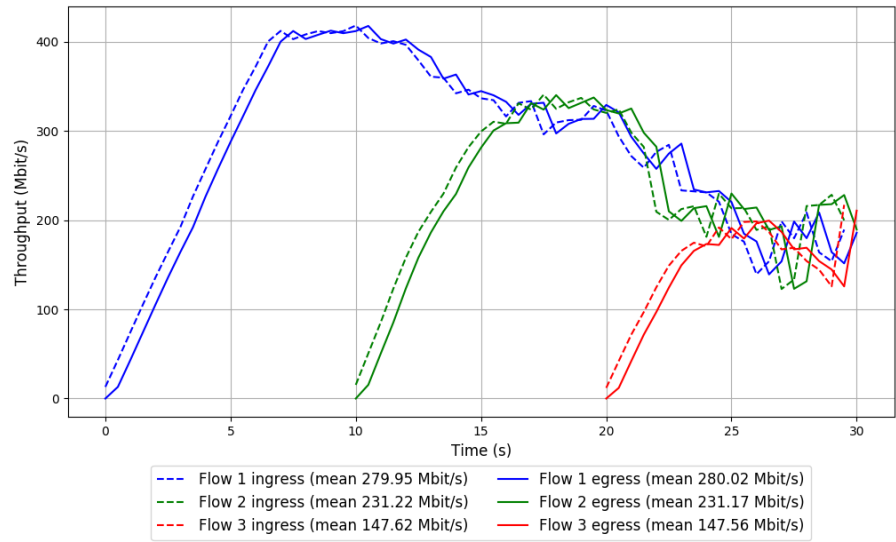


Run 5: Statistics of LEDBAT

Start at: 2018-05-25 13:52:15
End at: 2018-05-25 13:52:45
Local clock offset: 0.143 ms
Remote clock offset: -0.413 ms

Below is generated by plot.py at 2018-05-25 17:43:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 482.86 Mbit/s
95th percentile per-packet one-way delay: 4.884 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 280.02 Mbit/s
95th percentile per-packet one-way delay: 5.799 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 231.17 Mbit/s
95th percentile per-packet one-way delay: 1.965 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 147.56 Mbit/s
95th percentile per-packet one-way delay: 1.775 ms
Loss rate: 0.23%

Run 5: Report of LEDBAT — Data Link

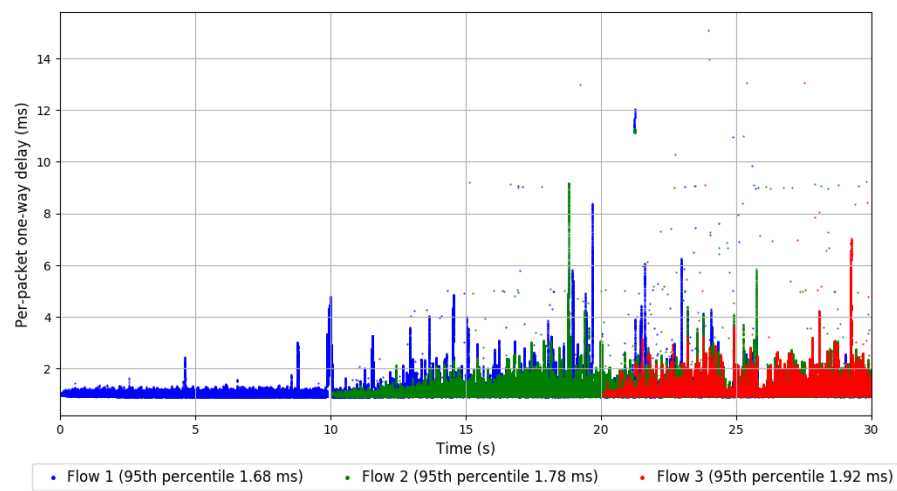
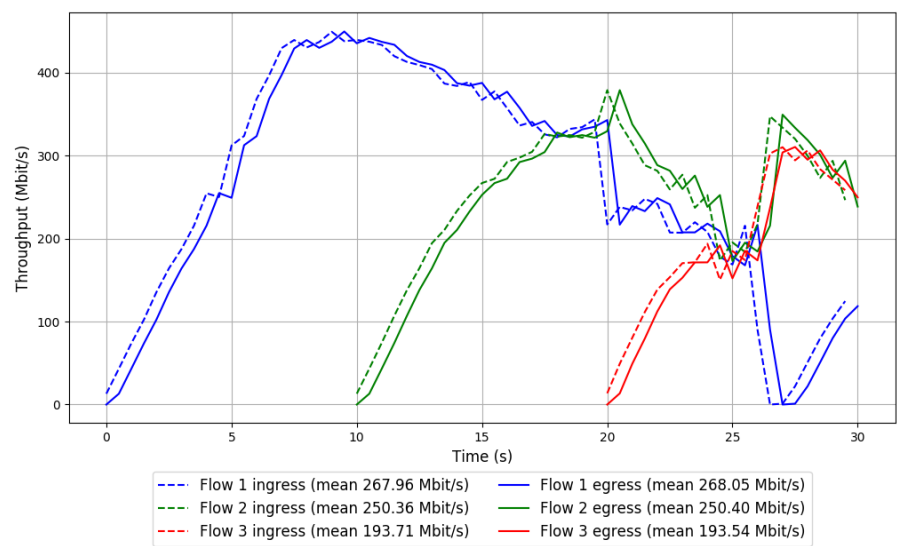


Run 6: Statistics of LEDBAT

Start at: 2018-05-25 14:17:38
End at: 2018-05-25 14:18:08
Local clock offset: -0.028 ms
Remote clock offset: -0.088 ms

Below is generated by plot.py at 2018-05-25 17:44:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 498.85 Mbit/s
95th percentile per-packet one-way delay: 1.762 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 268.05 Mbit/s
95th percentile per-packet one-way delay: 1.679 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 250.40 Mbit/s
95th percentile per-packet one-way delay: 1.776 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 193.54 Mbit/s
95th percentile per-packet one-way delay: 1.921 ms
Loss rate: 0.27%

Run 6: Report of LEDBAT — Data Link

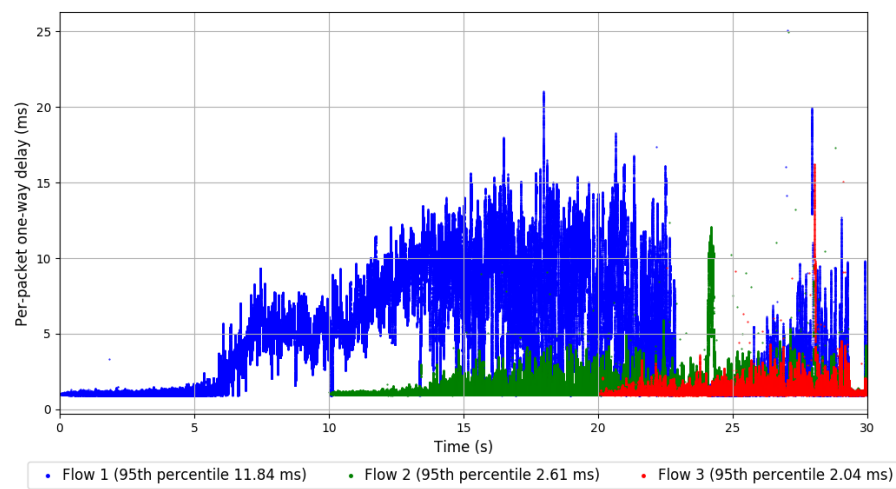
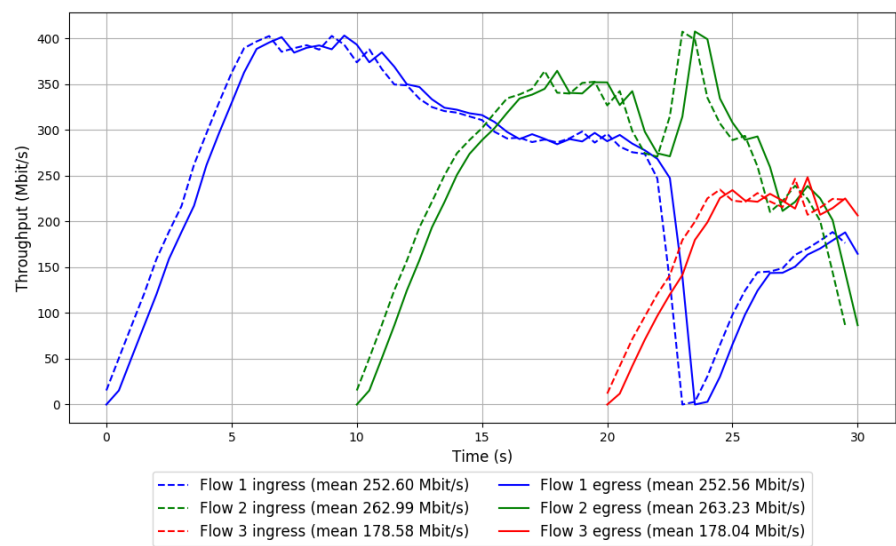


Run 7: Statistics of LEDBAT

Start at: 2018-05-25 14:42:57
End at: 2018-05-25 14:43:27
Local clock offset: -0.056 ms
Remote clock offset: -0.227 ms

Below is generated by plot.py at 2018-05-25 17:44:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 486.82 Mbit/s
95th percentile per-packet one-way delay: 10.738 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 252.56 Mbit/s
95th percentile per-packet one-way delay: 11.844 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 263.23 Mbit/s
95th percentile per-packet one-way delay: 2.612 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 178.04 Mbit/s
95th percentile per-packet one-way delay: 2.036 ms
Loss rate: 0.50%

Run 7: Report of LEDBAT — Data Link

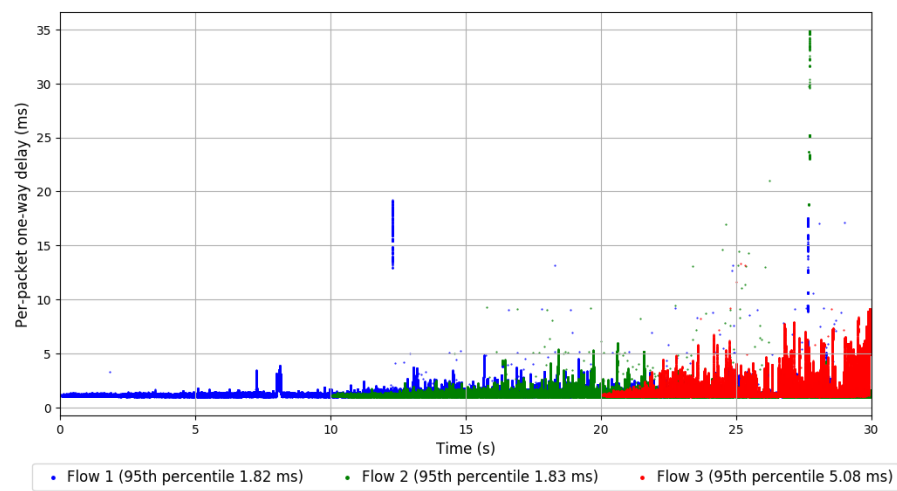
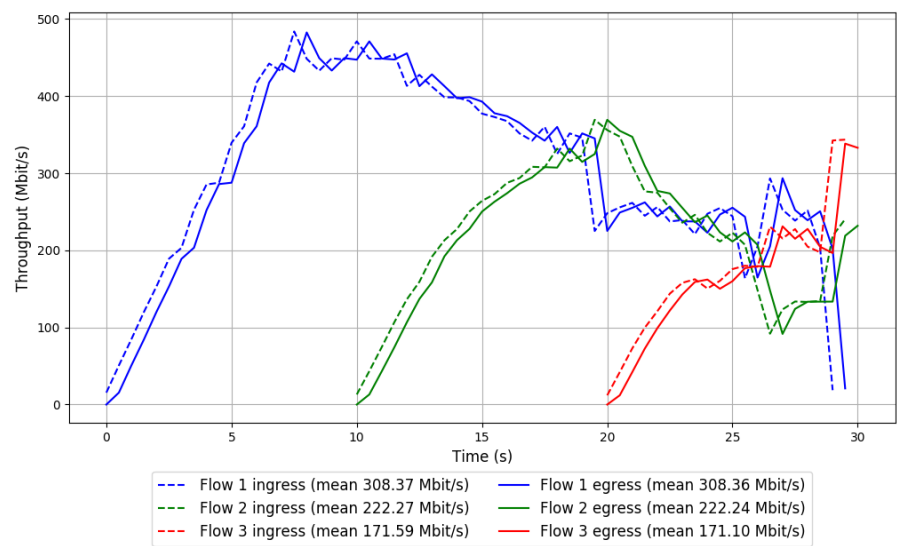


Run 8: Statistics of LEDBAT

Start at: 2018-05-25 15:08:27
End at: 2018-05-25 15:08:57
Local clock offset: 0.031 ms
Remote clock offset: -0.344 ms

Below is generated by plot.py at 2018-05-25 17:44:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 503.72 Mbit/s
95th percentile per-packet one-way delay: 2.251 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 308.36 Mbit/s
95th percentile per-packet one-way delay: 1.823 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 222.24 Mbit/s
95th percentile per-packet one-way delay: 1.835 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 171.10 Mbit/s
95th percentile per-packet one-way delay: 5.076 ms
Loss rate: 0.47%

Run 8: Report of LEDBAT — Data Link

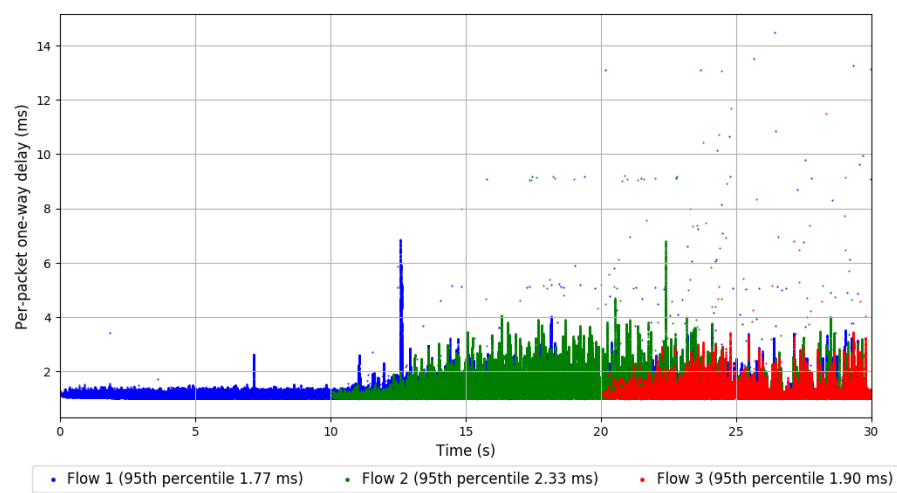
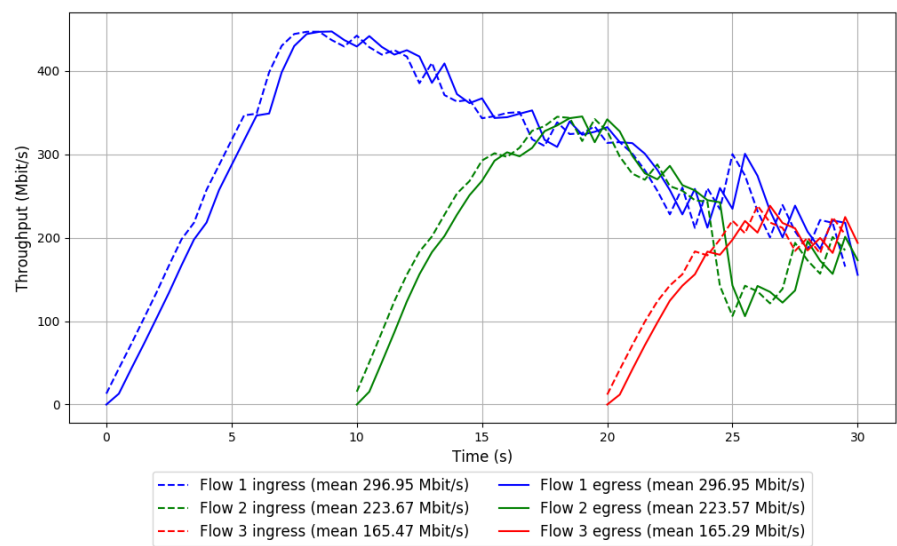


Run 9: Statistics of LEDBAT

Start at: 2018-05-25 15:33:56
End at: 2018-05-25 15:34:26
Local clock offset: 0.12 ms
Remote clock offset: -0.384 ms

Below is generated by plot.py at 2018-05-25 17:47:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 500.63 Mbit/s
95th percentile per-packet one-way delay: 1.979 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 296.95 Mbit/s
95th percentile per-packet one-way delay: 1.768 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 223.57 Mbit/s
95th percentile per-packet one-way delay: 2.327 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 165.29 Mbit/s
95th percentile per-packet one-way delay: 1.903 ms
Loss rate: 0.30%

Run 9: Report of LEDBAT — Data Link

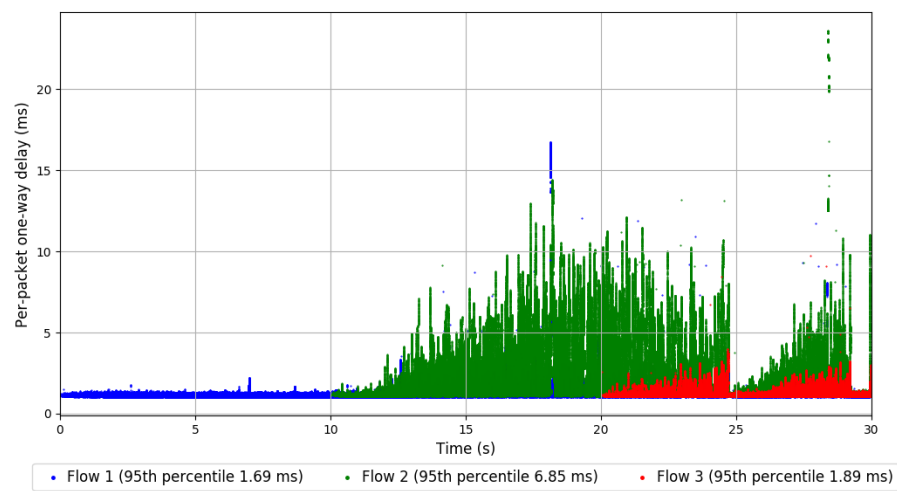
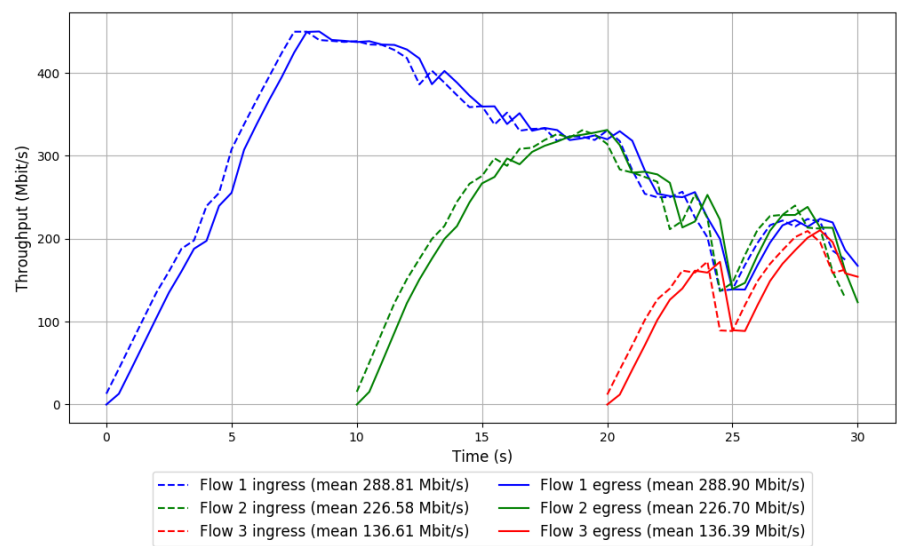


Run 10: Statistics of LEDBAT

Start at: 2018-05-25 15:59:14
End at: 2018-05-25 15:59:44
Local clock offset: 0.25 ms
Remote clock offset: -0.247 ms

Below is generated by plot.py at 2018-05-25 17:48:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 485.05 Mbit/s
95th percentile per-packet one-way delay: 4.439 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 288.90 Mbit/s
95th percentile per-packet one-way delay: 1.691 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 226.70 Mbit/s
95th percentile per-packet one-way delay: 6.851 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 136.39 Mbit/s
95th percentile per-packet one-way delay: 1.892 ms
Loss rate: 0.35%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-05-25 12:27:33

End at: 2018-05-25 12:28:03

Local clock offset: 0.135 ms

Remote clock offset: 0.242 ms

Below is generated by plot.py at 2018-05-25 17:53:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 841.56 Mbit/s

95th percentile per-packet one-way delay: 3.126 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 574.85 Mbit/s

95th percentile per-packet one-way delay: 10.966 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 306.94 Mbit/s

95th percentile per-packet one-way delay: 2.478 ms

Loss rate: 0.05%

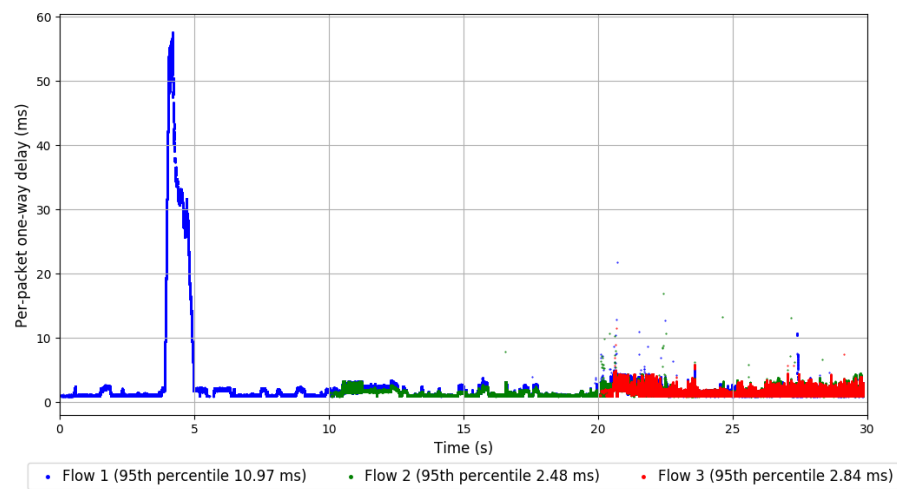
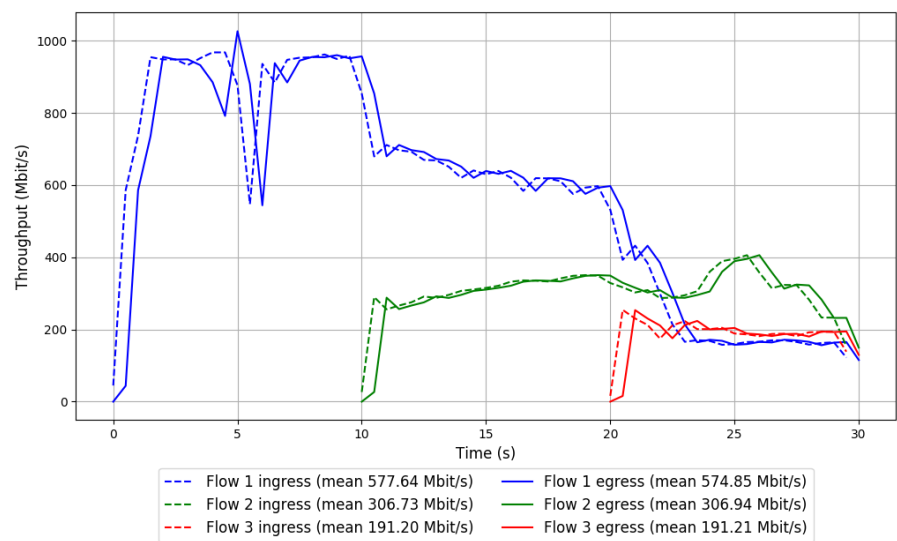
-- Flow 3:

Average throughput: 191.21 Mbit/s

95th percentile per-packet one-way delay: 2.839 ms

Loss rate: 0.24%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-25 12:53:02

End at: 2018-05-25 12:53:32

Local clock offset: 0.161 ms

Remote clock offset: 0.164 ms

Below is generated by plot.py at 2018-05-25 17:53:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 737.80 Mbit/s

95th percentile per-packet one-way delay: 41.028 ms

Loss rate: 2.37%

-- Flow 1:

Average throughput: 463.25 Mbit/s

95th percentile per-packet one-way delay: 41.681 ms

Loss rate: 3.69%

-- Flow 2:

Average throughput: 321.14 Mbit/s

95th percentile per-packet one-way delay: 2.916 ms

Loss rate: 0.06%

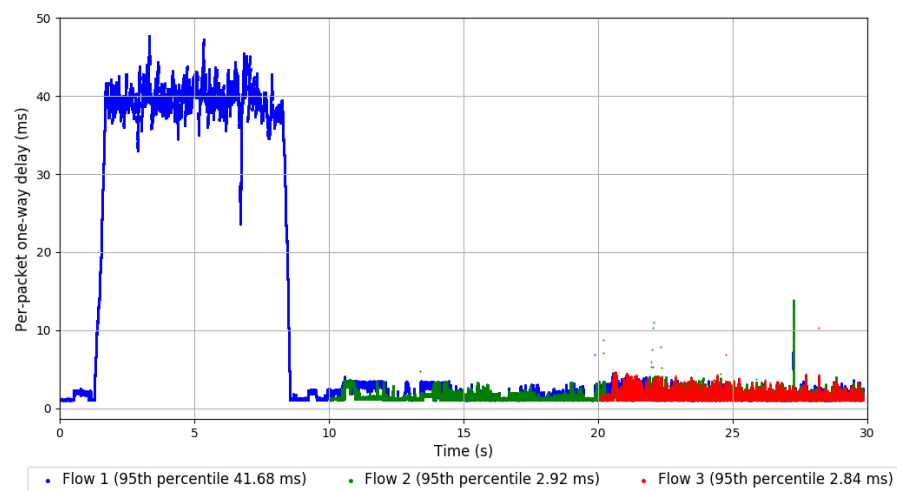
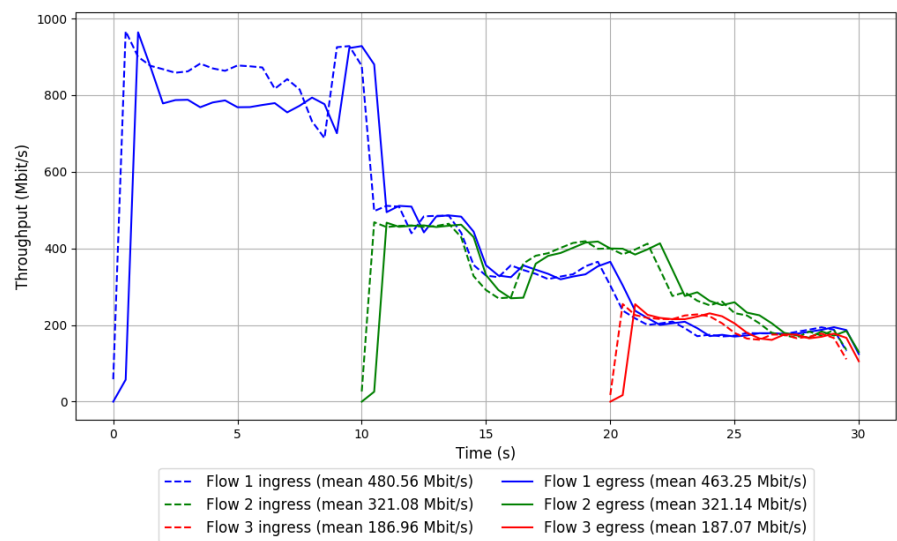
-- Flow 3:

Average throughput: 187.07 Mbit/s

95th percentile per-packet one-way delay: 2.843 ms

Loss rate: 0.15%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-05-25 13:18:37

End at: 2018-05-25 13:19:07

Local clock offset: 0.316 ms

Remote clock offset: 0.097 ms

Below is generated by plot.py at 2018-05-25 17:53:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 725.05 Mbit/s

95th percentile per-packet one-way delay: 41.360 ms

Loss rate: 2.70%

-- Flow 1:

Average throughput: 504.87 Mbit/s

95th percentile per-packet one-way delay: 42.038 ms

Loss rate: 3.79%

-- Flow 2:

Average throughput: 264.53 Mbit/s

95th percentile per-packet one-way delay: 3.075 ms

Loss rate: 0.07%

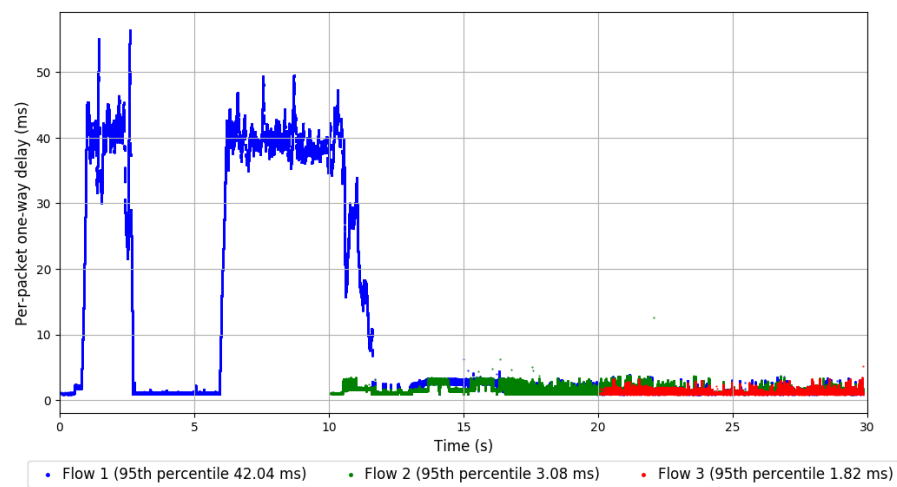
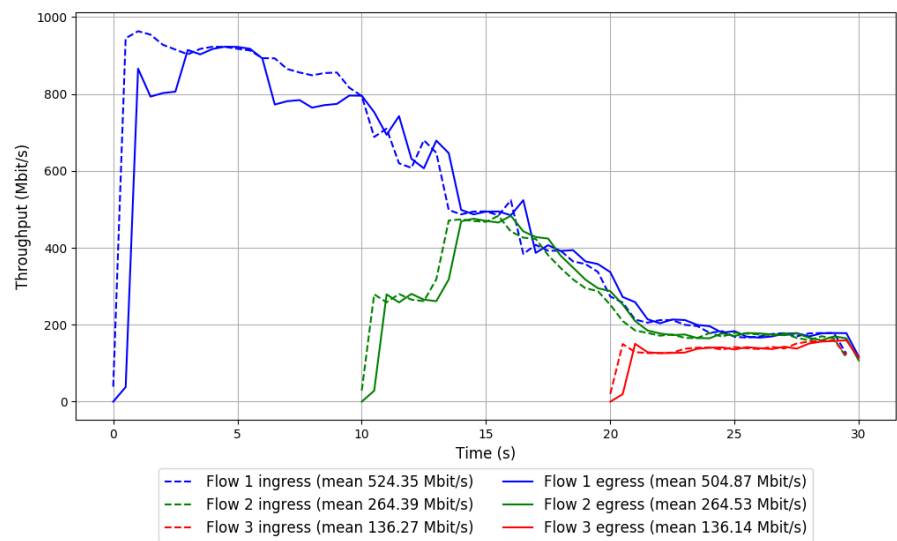
-- Flow 3:

Average throughput: 136.14 Mbit/s

95th percentile per-packet one-way delay: 1.824 ms

Loss rate: 0.26%

Run 3: Report of PCC-Allegro — Data Link

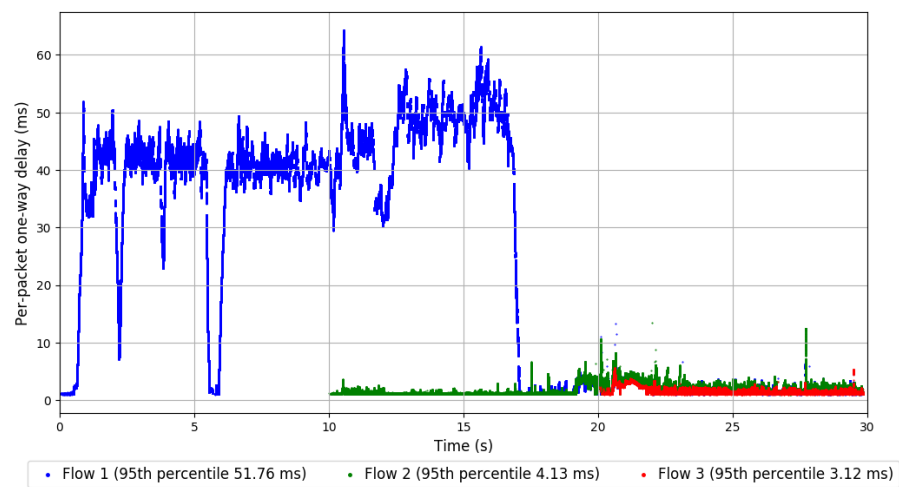
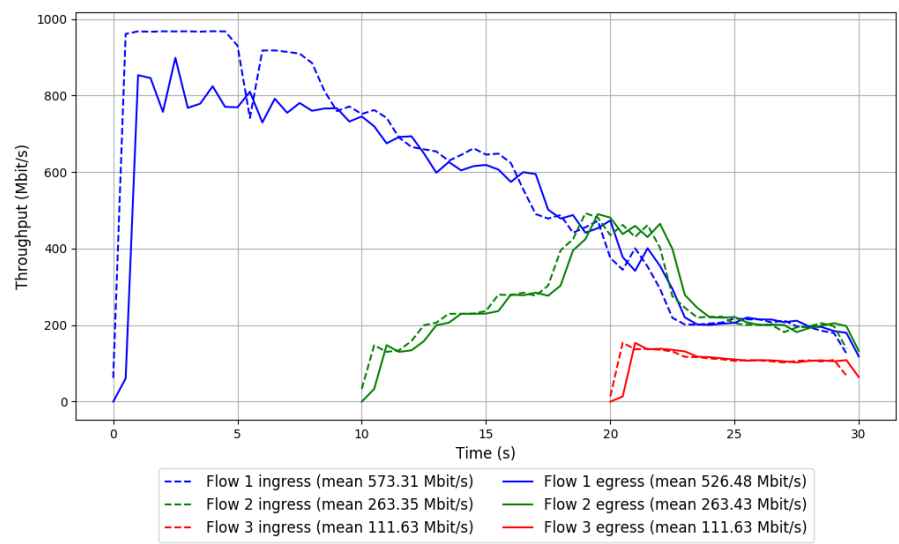


Run 4: Statistics of PCC-Allegro

Start at: 2018-05-25 13:44:05
End at: 2018-05-25 13:44:35
Local clock offset: 0.173 ms
Remote clock offset: -0.351 ms

Below is generated by plot.py at 2018-05-25 17:53:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 738.10 Mbit/s
95th percentile per-packet one-way delay: 50.505 ms
Loss rate: 6.04%
-- Flow 1:
Average throughput: 526.48 Mbit/s
95th percentile per-packet one-way delay: 51.757 ms
Loss rate: 8.24%
-- Flow 2:
Average throughput: 263.43 Mbit/s
95th percentile per-packet one-way delay: 4.135 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 111.63 Mbit/s
95th percentile per-packet one-way delay: 3.122 ms
Loss rate: 0.21%

Run 4: Report of PCC-Allegro — Data Link

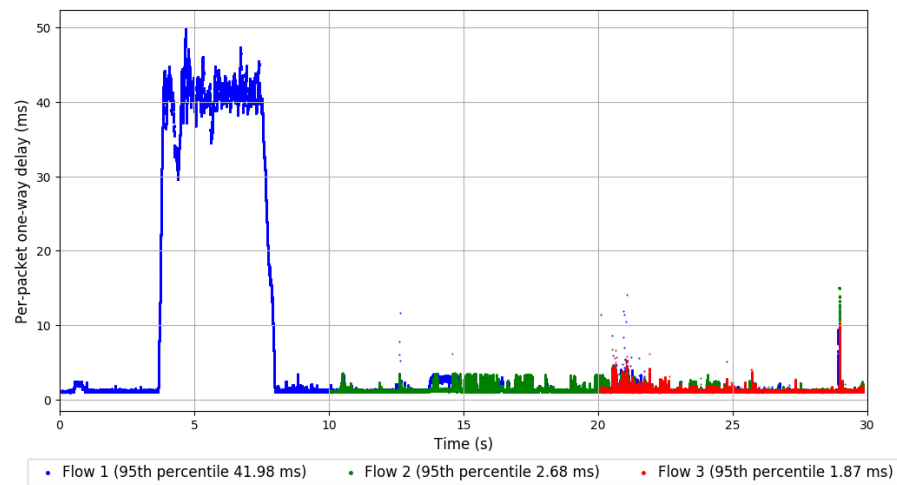
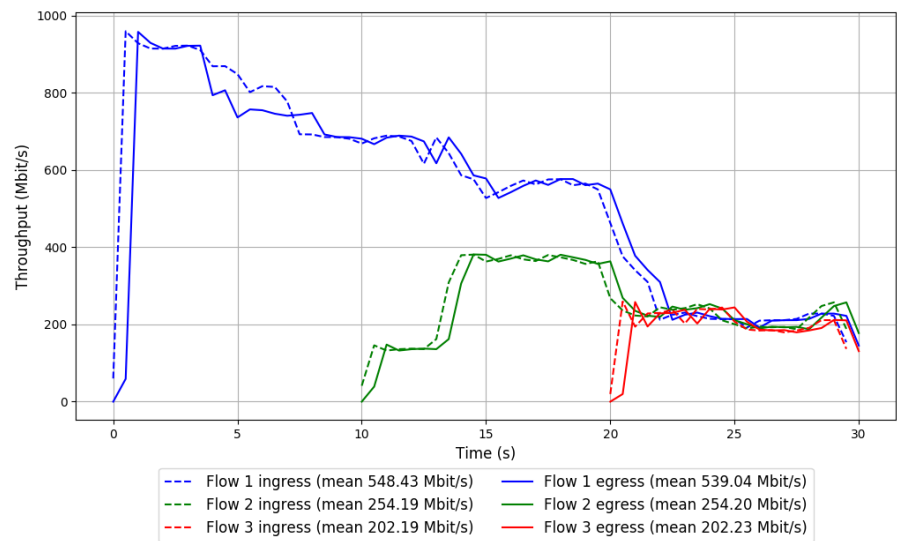


Run 5: Statistics of PCC-Allegro

Start at: 2018-05-25 14:09:34
End at: 2018-05-25 14:10:04
Local clock offset: 0.073 ms
Remote clock offset: -0.131 ms

Below is generated by plot.py at 2018-05-25 17:54:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 774.37 Mbit/s
95th percentile per-packet one-way delay: 41.388 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 539.04 Mbit/s
95th percentile per-packet one-way delay: 41.981 ms
Loss rate: 1.79%
-- Flow 2:
Average throughput: 254.20 Mbit/s
95th percentile per-packet one-way delay: 2.680 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 202.23 Mbit/s
95th percentile per-packet one-way delay: 1.866 ms
Loss rate: 0.16%

Run 5: Report of PCC-Allegro — Data Link

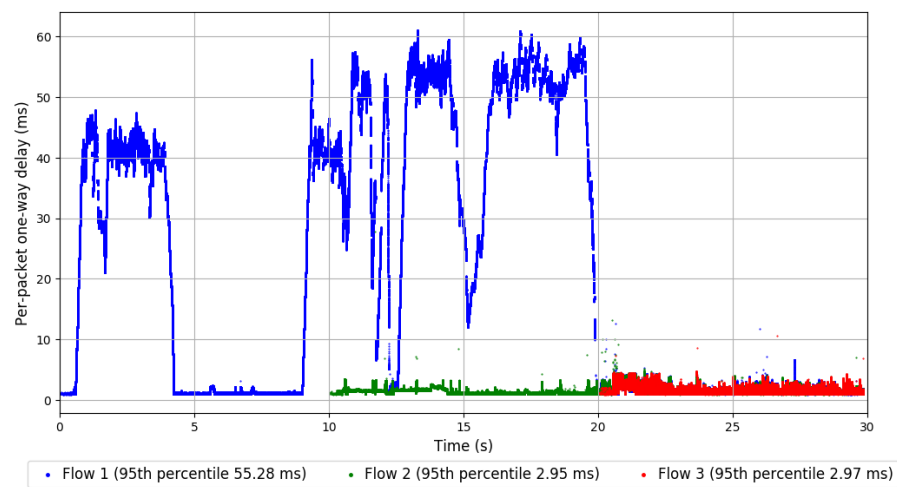
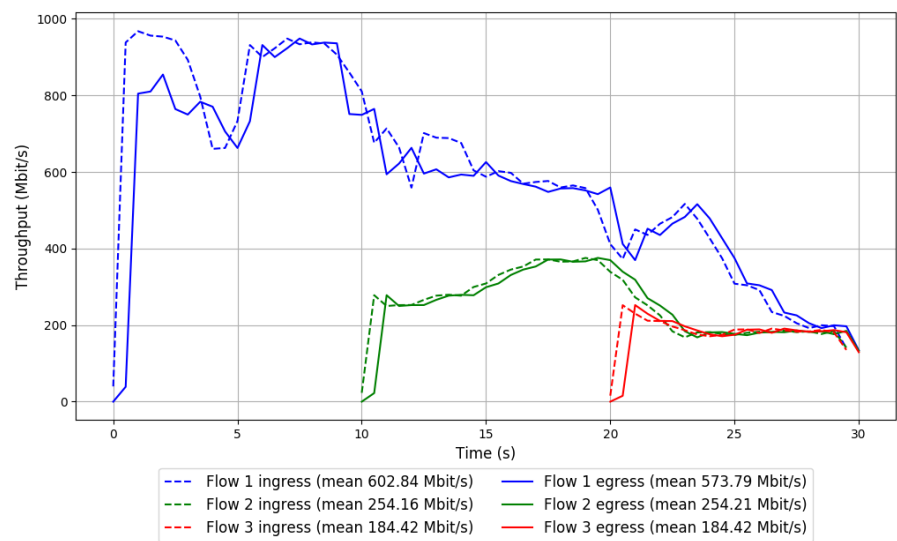


Run 6: Statistics of PCC-Allegro

Start at: 2018-05-25 14:34:46
End at: 2018-05-25 14:35:16
Local clock offset: -0.035 ms
Remote clock offset: -0.172 ms

Below is generated by plot.py at 2018-05-25 17:55:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 803.09 Mbit/s
95th percentile per-packet one-way delay: 54.459 ms
Loss rate: 3.56%
-- Flow 1:
Average throughput: 573.79 Mbit/s
95th percentile per-packet one-way delay: 55.280 ms
Loss rate: 4.88%
-- Flow 2:
Average throughput: 254.21 Mbit/s
95th percentile per-packet one-way delay: 2.951 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 184.42 Mbit/s
95th percentile per-packet one-way delay: 2.973 ms
Loss rate: 0.17%

Run 6: Report of PCC-Allegro — Data Link

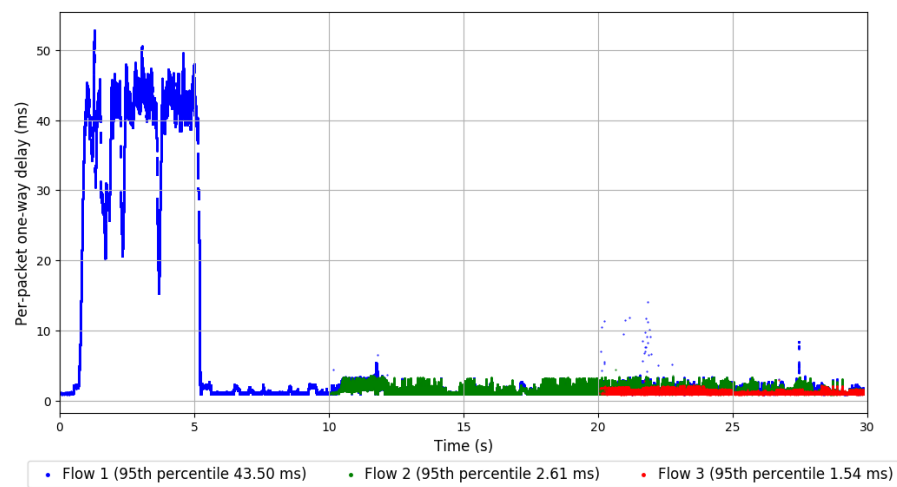
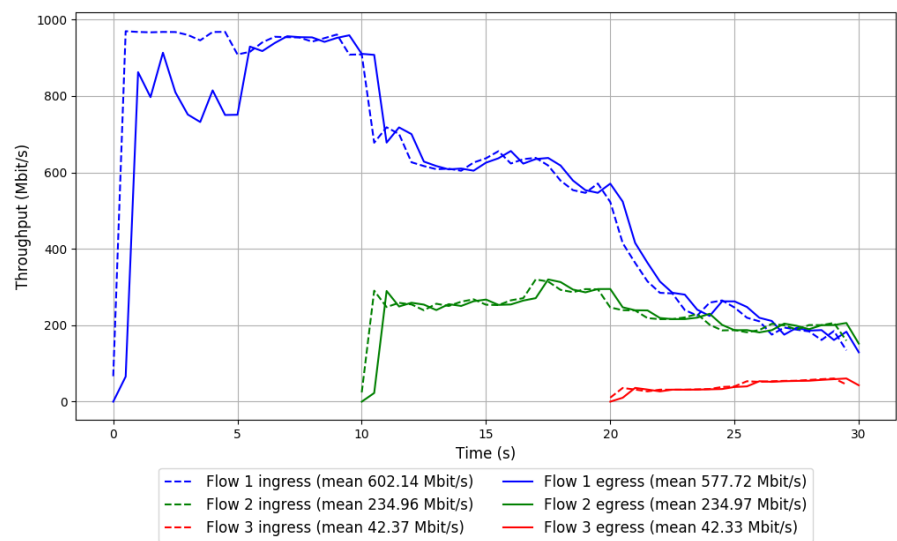


Run 7: Statistics of PCC-Allegro

Start at: 2018-05-25 15:00:15
End at: 2018-05-25 15:00:45
Local clock offset: -0.063 ms
Remote clock offset: -0.306 ms

Below is generated by plot.py at 2018-05-25 17:57:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 747.66 Mbit/s
95th percentile per-packet one-way delay: 42.906 ms
Loss rate: 3.24%
-- Flow 1:
Average throughput: 577.72 Mbit/s
95th percentile per-packet one-way delay: 43.504 ms
Loss rate: 4.12%
-- Flow 2:
Average throughput: 234.97 Mbit/s
95th percentile per-packet one-way delay: 2.606 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 42.33 Mbit/s
95th percentile per-packet one-way delay: 1.539 ms
Loss rate: 0.27%

Run 7: Report of PCC-Allegro — Data Link

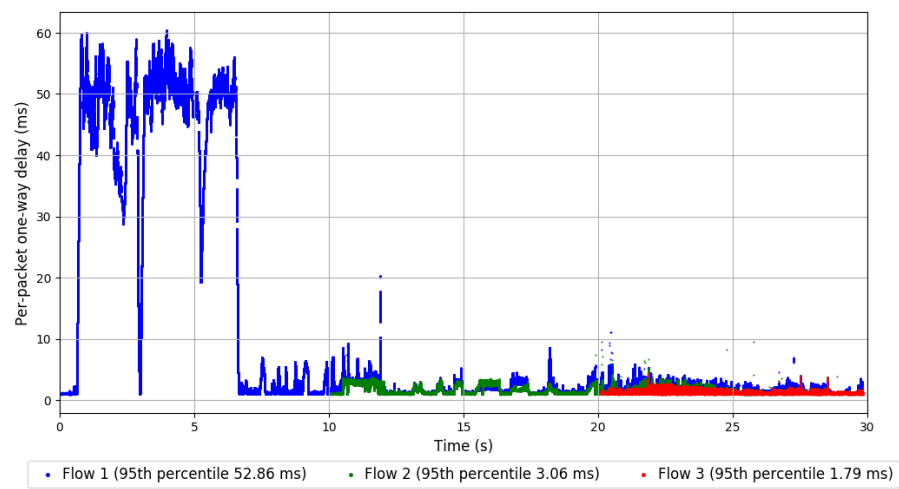
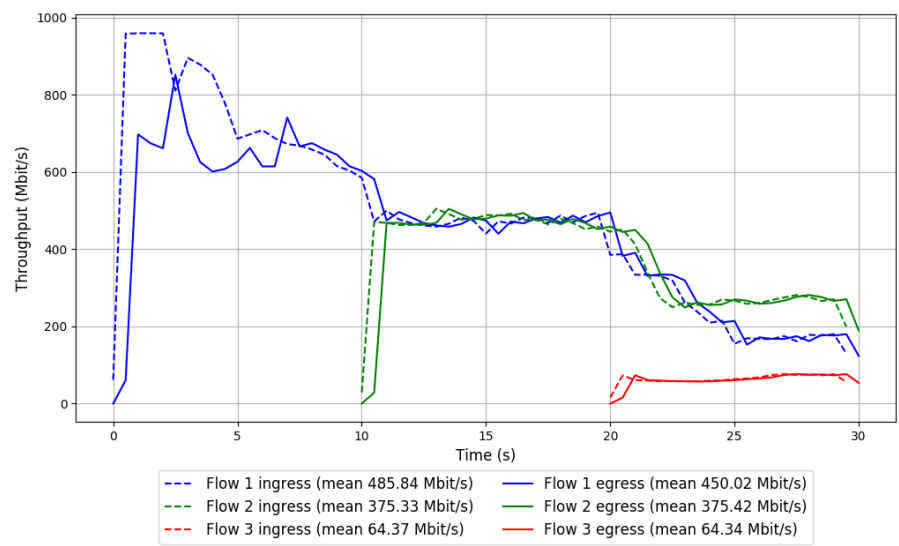


Run 8: Statistics of PCC-Allegro

Start at: 2018-05-25 15:25:49
End at: 2018-05-25 15:26:19
Local clock offset: 0.047 ms
Remote clock offset: -0.319 ms

Below is generated by plot.py at 2018-05-25 17:57:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 720.45 Mbit/s
95th percentile per-packet one-way delay: 51.459 ms
Loss rate: 4.80%
-- Flow 1:
Average throughput: 450.02 Mbit/s
95th percentile per-packet one-way delay: 52.857 ms
Loss rate: 7.43%
-- Flow 2:
Average throughput: 375.42 Mbit/s
95th percentile per-packet one-way delay: 3.058 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 64.34 Mbit/s
95th percentile per-packet one-way delay: 1.793 ms
Loss rate: 0.23%

Run 8: Report of PCC-Allegro — Data Link

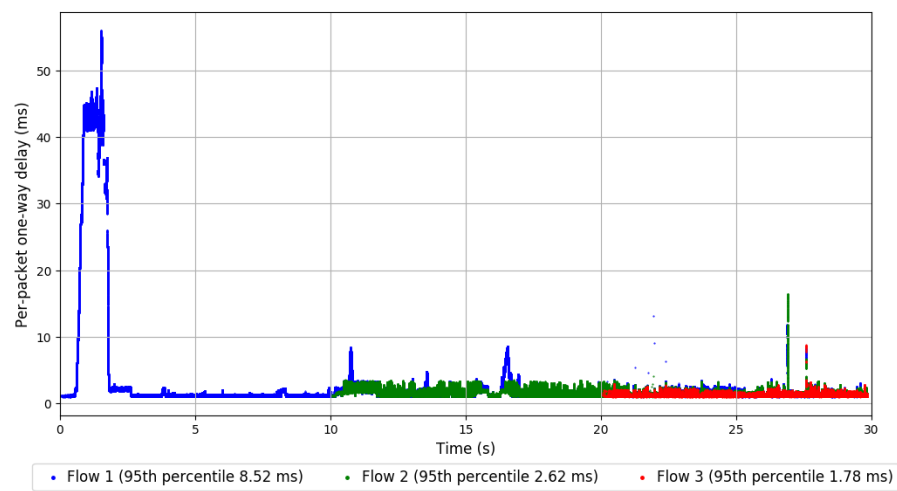
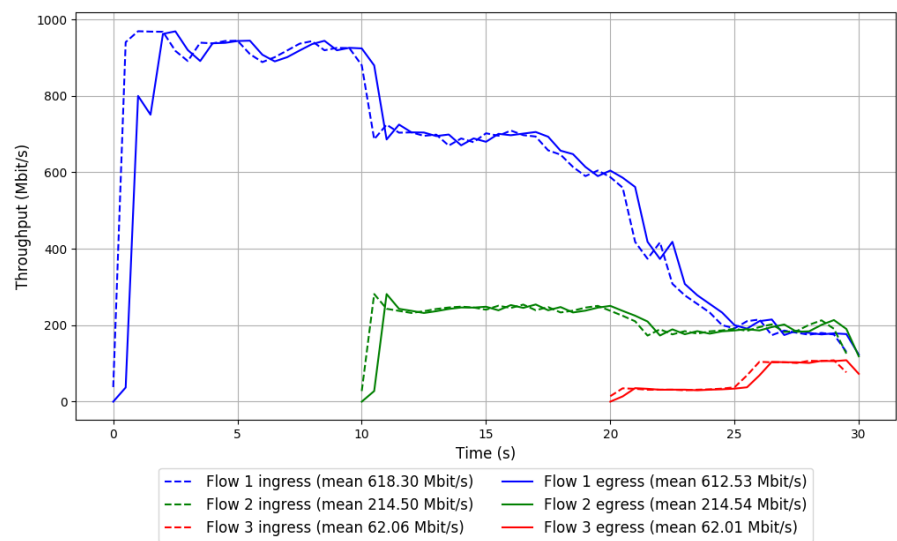


Run 9: Statistics of PCC-Allegro

Start at: 2018-05-25 15:51:17
End at: 2018-05-25 15:51:47
Local clock offset: 0.261 ms
Remote clock offset: -0.253 ms

Below is generated by plot.py at 2018-05-25 18:02:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 775.26 Mbit/s
95th percentile per-packet one-way delay: 4.419 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 612.53 Mbit/s
95th percentile per-packet one-way delay: 8.515 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 214.54 Mbit/s
95th percentile per-packet one-way delay: 2.624 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 62.01 Mbit/s
95th percentile per-packet one-way delay: 1.780 ms
Loss rate: 0.34%

Run 9: Report of PCC-Allegro — Data Link

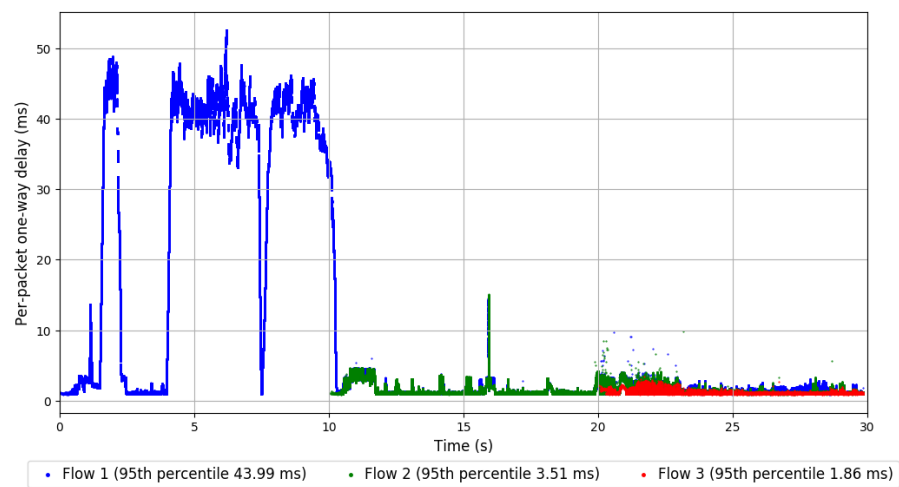
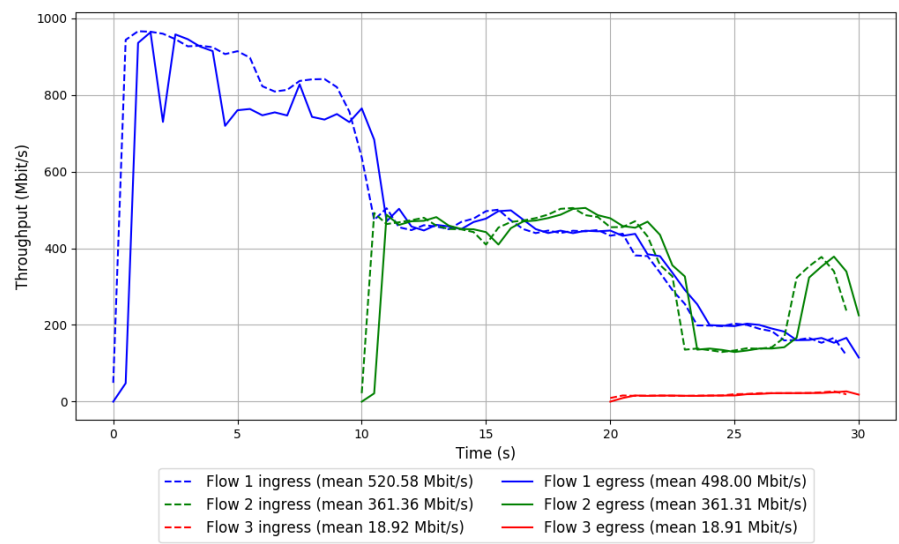


Run 10: Statistics of PCC-Allegro

Start at: 2018-05-25 16:16:26
End at: 2018-05-25 16:16:56
Local clock offset: 0.006 ms
Remote clock offset: -0.193 ms

Below is generated by plot.py at 2018-05-25 18:02:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 744.01 Mbit/s
95th percentile per-packet one-way delay: 43.234 ms
Loss rate: 3.03%
-- Flow 1:
Average throughput: 498.00 Mbit/s
95th percentile per-packet one-way delay: 43.991 ms
Loss rate: 4.40%
-- Flow 2:
Average throughput: 361.31 Mbit/s
95th percentile per-packet one-way delay: 3.513 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 18.91 Mbit/s
95th percentile per-packet one-way delay: 1.863 ms
Loss rate: 0.27%

Run 10: Report of PCC-Allegro — Data Link

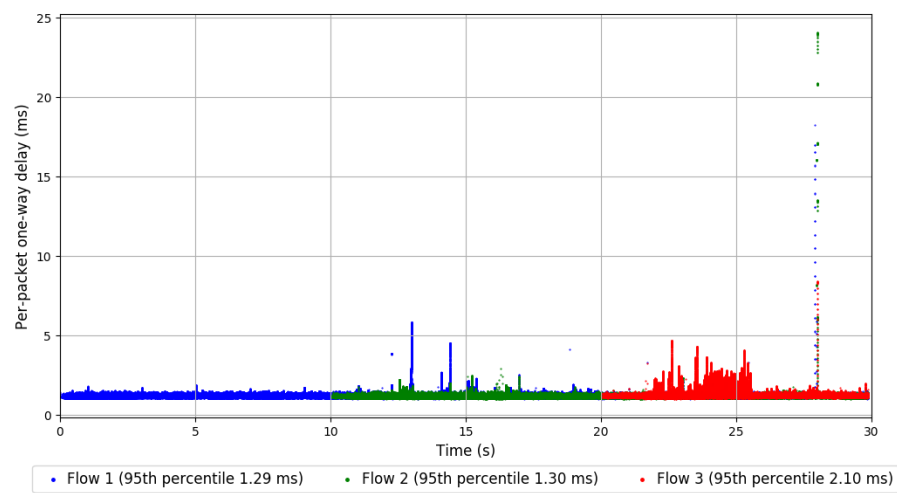
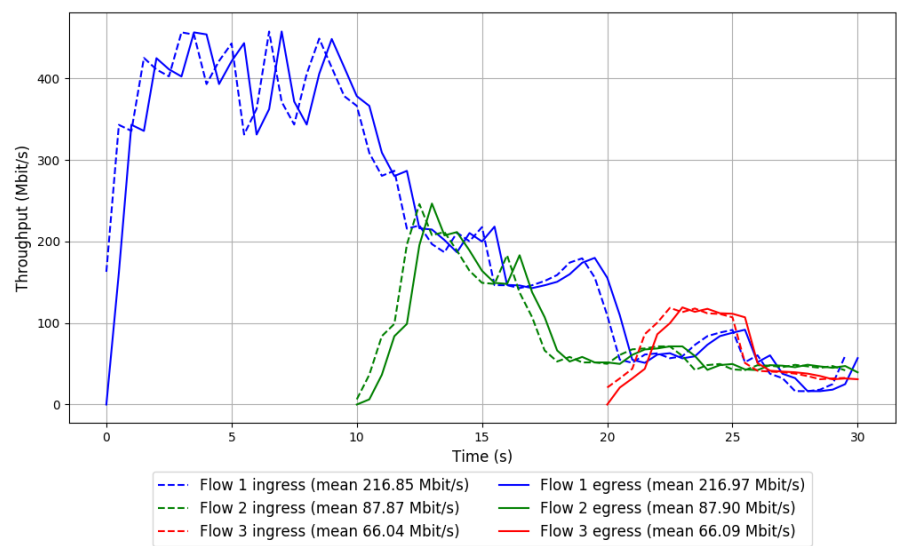


```
Run 1: Statistics of PCC-Expr

Start at: 2018-05-25 12:08:30
End at: 2018-05-25 12:09:00
Local clock offset: 0.386 ms
Remote clock offset: 0.142 ms

# Below is generated by plot.py at 2018-05-25 18:02:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 297.21 Mbit/s
95th percentile per-packet one-way delay: 1.318 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 216.97 Mbit/s
95th percentile per-packet one-way delay: 1.293 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 87.90 Mbit/s
95th percentile per-packet one-way delay: 1.298 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 66.09 Mbit/s
95th percentile per-packet one-way delay: 2.097 ms
Loss rate: 0.13%
```

Run 1: Report of PCC-Expr — Data Link

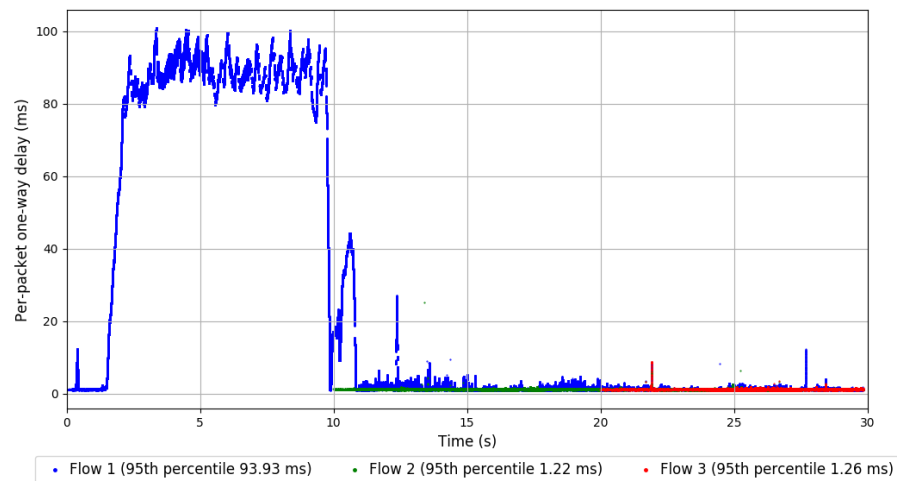
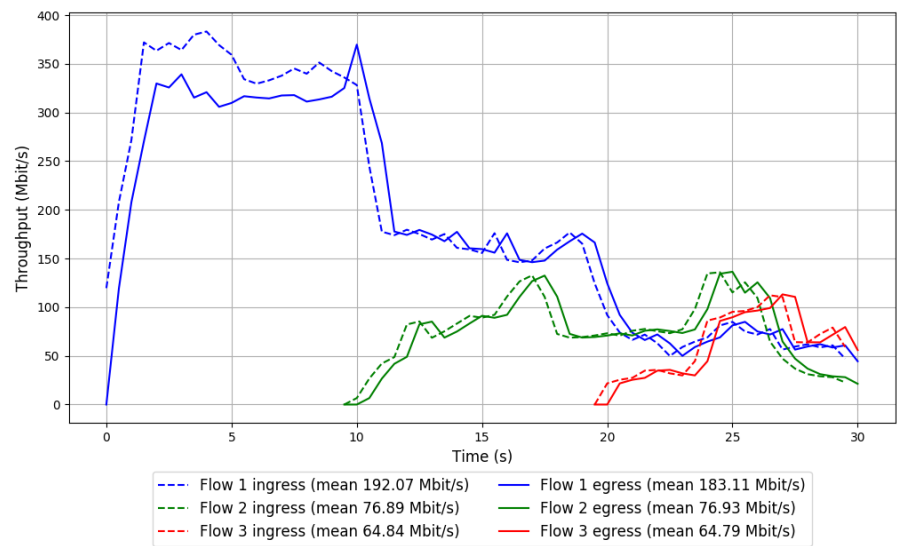


```
Run 2: Statistics of PCC-Expr

Start at: 2018-05-25 12:34:00
End at: 2018-05-25 12:34:30
Local clock offset: 0.213 ms
Remote clock offset: 0.279 ms

# Below is generated by plot.py at 2018-05-25 18:02:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 255.68 Mbit/s
95th percentile per-packet one-way delay: 93.117 ms
Loss rate: 3.46%
-- Flow 1:
Average throughput: 183.11 Mbit/s
95th percentile per-packet one-way delay: 93.933 ms
Loss rate: 4.73%
-- Flow 2:
Average throughput: 76.93 Mbit/s
95th percentile per-packet one-way delay: 1.216 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 64.79 Mbit/s
95th percentile per-packet one-way delay: 1.261 ms
Loss rate: 0.27%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-05-25 12:59:35

End at: 2018-05-25 13:00:05

Local clock offset: 0.187 ms

Remote clock offset: 0.152 ms

Below is generated by plot.py at 2018-05-25 18:02:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 315.63 Mbit/s

95th percentile per-packet one-way delay: 89.052 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 214.84 Mbit/s

95th percentile per-packet one-way delay: 90.950 ms

Loss rate: 1.86%

-- Flow 2:

Average throughput: 112.72 Mbit/s

95th percentile per-packet one-way delay: 1.858 ms

Loss rate: 0.12%

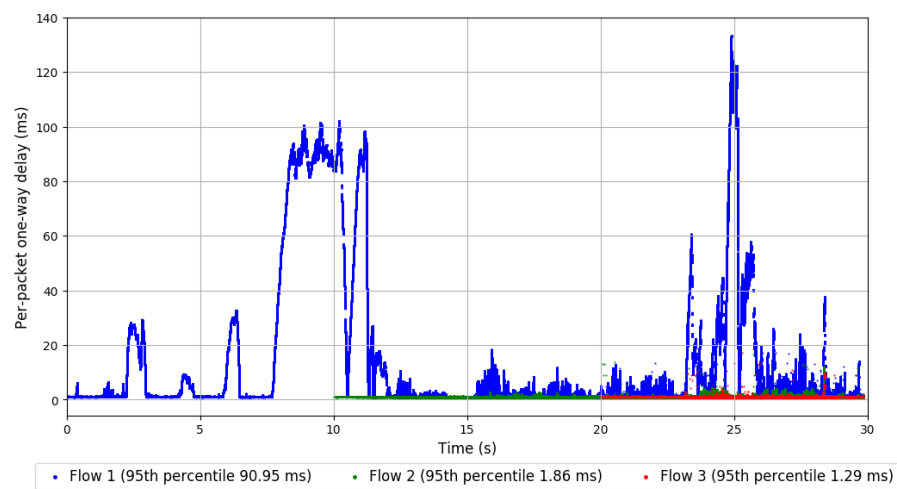
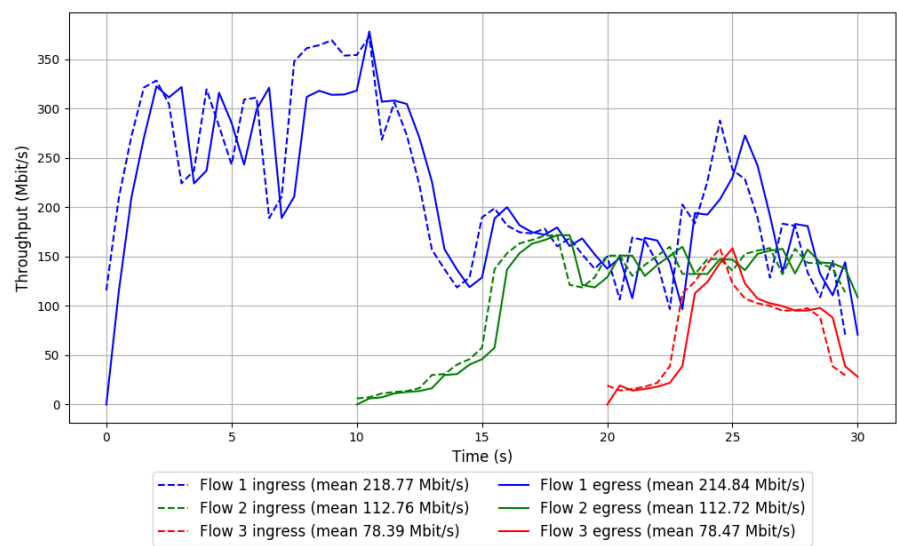
-- Flow 3:

Average throughput: 78.47 Mbit/s

95th percentile per-packet one-way delay: 1.290 ms

Loss rate: 0.10%

Run 3: Report of PCC-Expr — Data Link

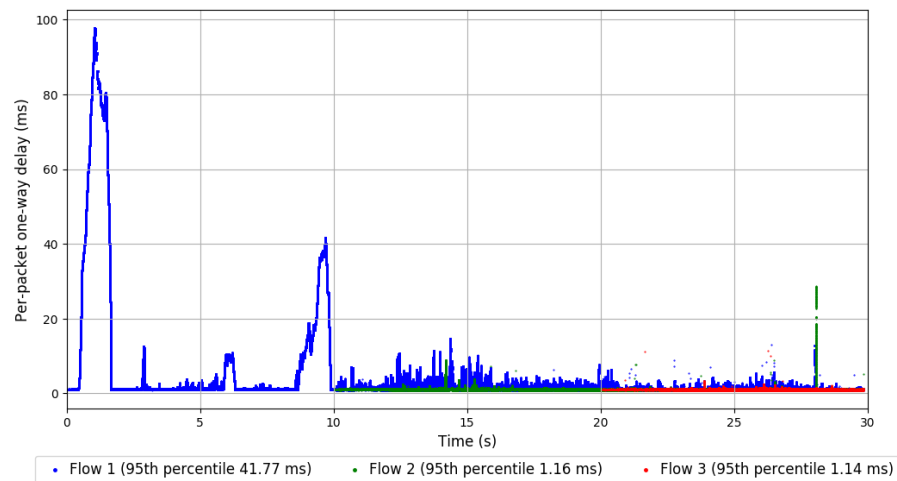
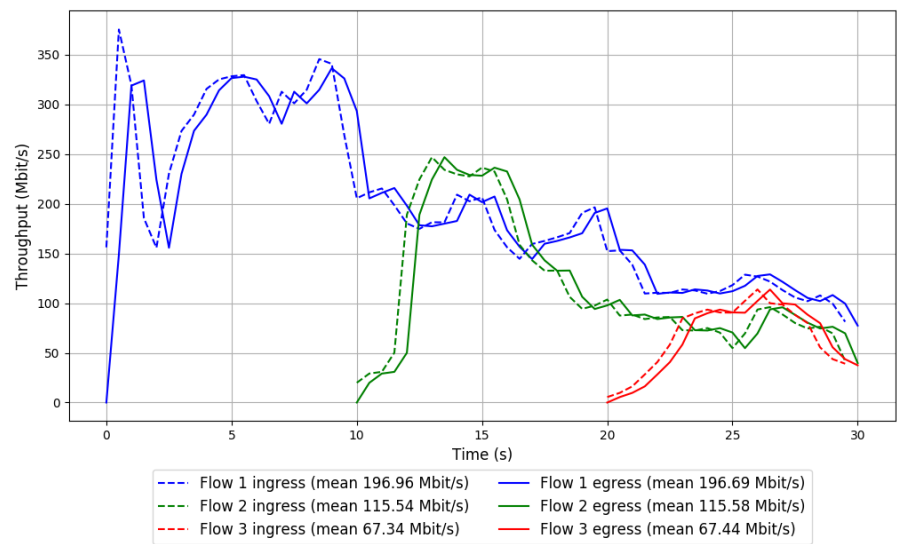


Run 4: Statistics of PCC-Expr

Start at: 2018-05-25 13:25:08
End at: 2018-05-25 13:25:38
Local clock offset: 0.34 ms
Remote clock offset: -0.031 ms

Below is generated by plot.py at 2018-05-25 18:02:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 295.74 Mbit/s
95th percentile per-packet one-way delay: 32.810 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 196.69 Mbit/s
95th percentile per-packet one-way delay: 41.770 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 115.58 Mbit/s
95th percentile per-packet one-way delay: 1.156 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 67.44 Mbit/s
95th percentile per-packet one-way delay: 1.139 ms
Loss rate: 0.13%

Run 4: Report of PCC-Expr — Data Link

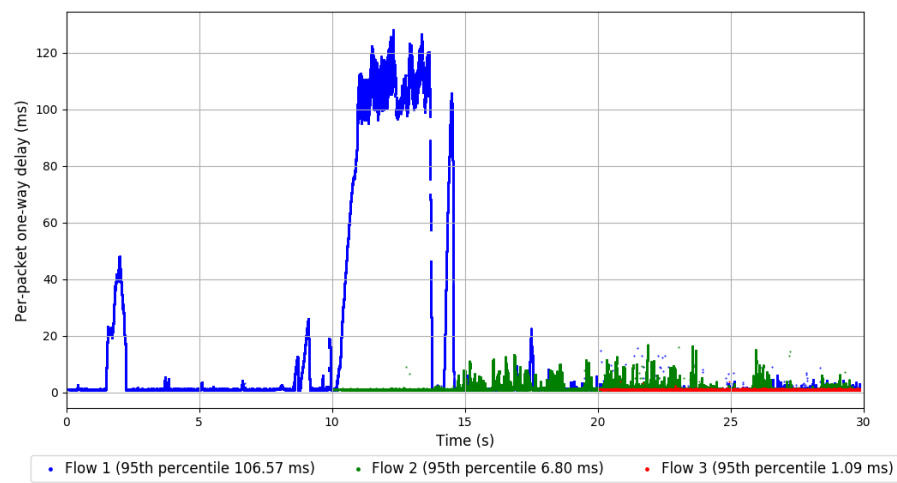
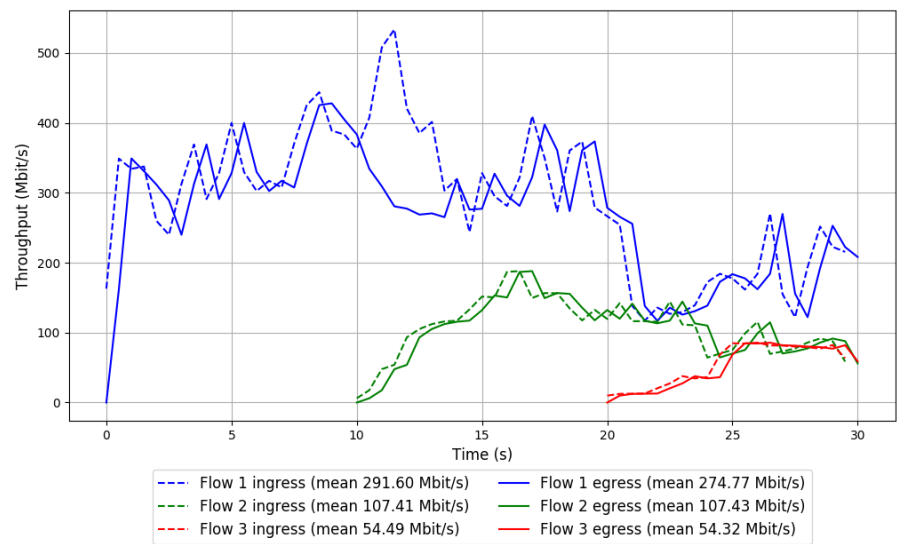


Run 5: Statistics of PCC-Expr

Start at: 2018-05-25 13:50:34
End at: 2018-05-25 13:51:04
Local clock offset: 0.051 ms
Remote clock offset: -0.355 ms

Below is generated by plot.py at 2018-05-25 18:07:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 364.08 Mbit/s
95th percentile per-packet one-way delay: 103.463 ms
Loss rate: 4.50%
-- Flow 1:
Average throughput: 274.77 Mbit/s
95th percentile per-packet one-way delay: 106.574 ms
Loss rate: 5.83%
-- Flow 2:
Average throughput: 107.43 Mbit/s
95th percentile per-packet one-way delay: 6.796 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 54.32 Mbit/s
95th percentile per-packet one-way delay: 1.092 ms
Loss rate: 0.48%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-05-25 14:16:03

End at: 2018-05-25 14:16:33

Local clock offset: -0.02 ms

Remote clock offset: -0.09 ms

Below is generated by plot.py at 2018-05-25 18:07:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 273.34 Mbit/s

95th percentile per-packet one-way delay: 26.971 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 169.76 Mbit/s

95th percentile per-packet one-way delay: 56.848 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 116.97 Mbit/s

95th percentile per-packet one-way delay: 1.195 ms

Loss rate: 0.06%

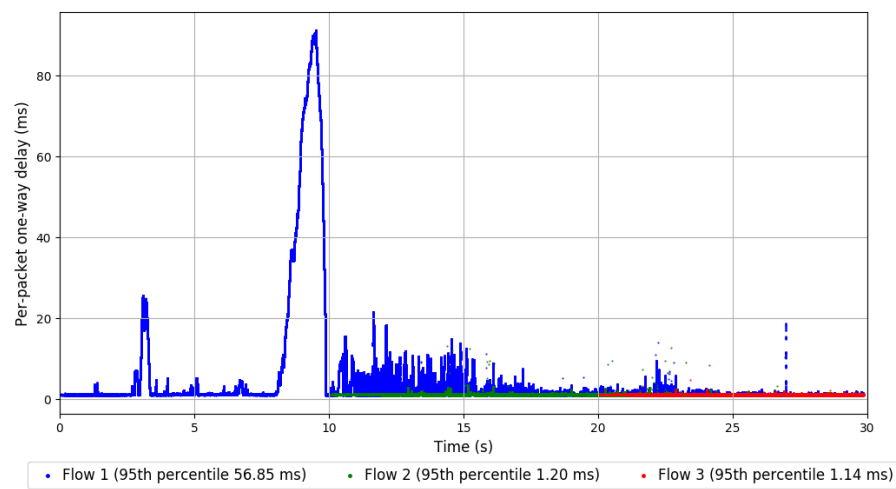
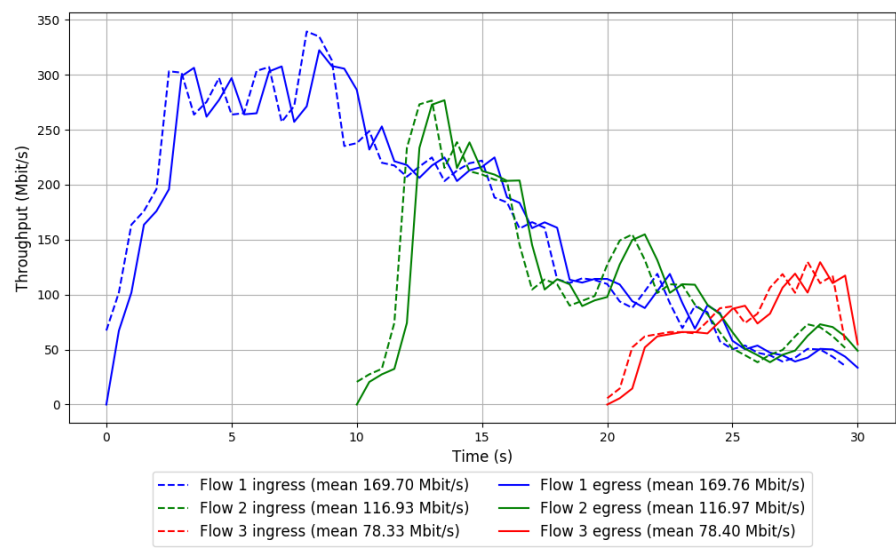
-- Flow 3:

Average throughput: 78.40 Mbit/s

95th percentile per-packet one-way delay: 1.139 ms

Loss rate: 0.14%

Run 6: Report of PCC-Expr — Data Link

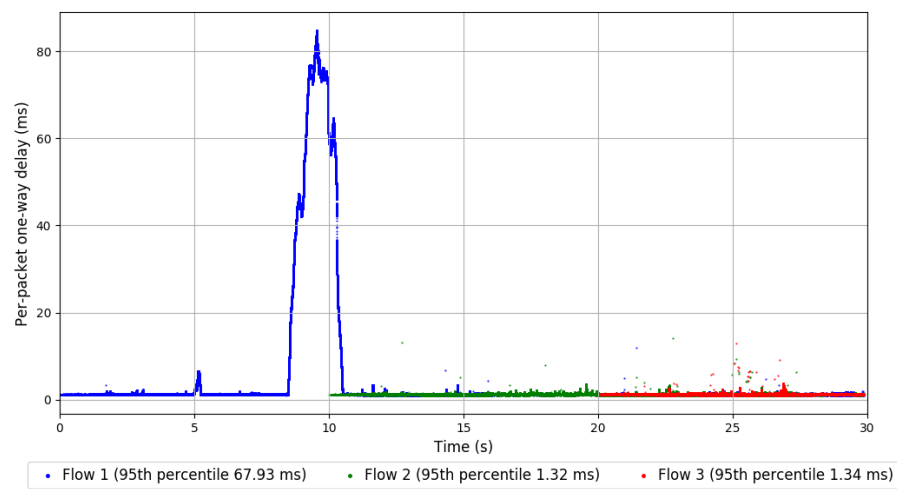
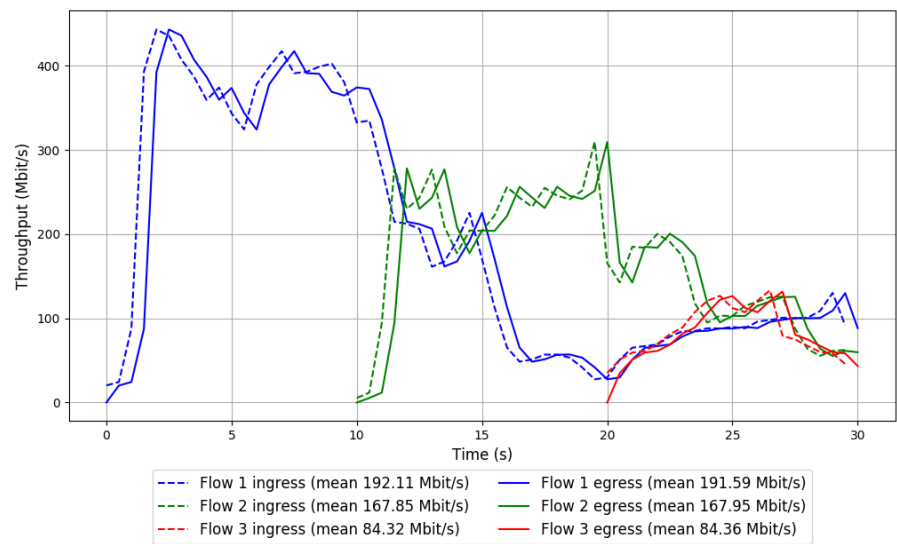


Run 7: Statistics of PCC-Expr

Start at: 2018-05-25 14:41:16
End at: 2018-05-25 14:41:46
Local clock offset: 0.031 ms
Remote clock offset: -0.241 ms

Below is generated by plot.py at 2018-05-25 18:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 330.98 Mbit/s
95th percentile per-packet one-way delay: 44.696 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 191.59 Mbit/s
95th percentile per-packet one-way delay: 67.928 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 167.95 Mbit/s
95th percentile per-packet one-way delay: 1.324 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 84.36 Mbit/s
95th percentile per-packet one-way delay: 1.338 ms
Loss rate: 0.15%

Run 7: Report of PCC-Expr — Data Link

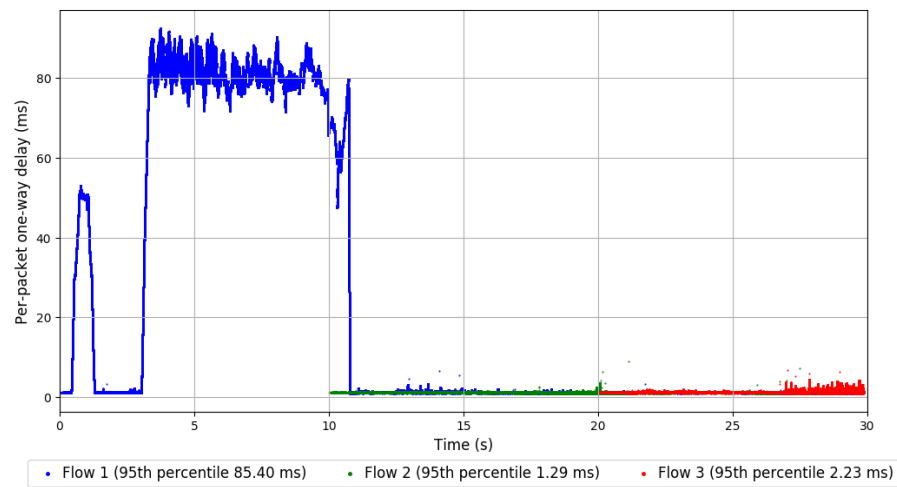
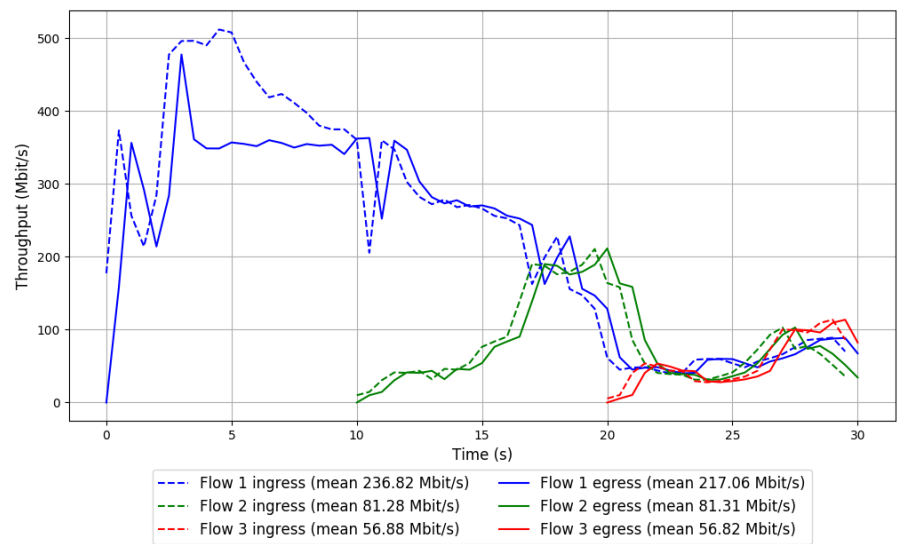


Run 8: Statistics of PCC-Expr

Start at: 2018-05-25 15:06:51
End at: 2018-05-25 15:07:21
Local clock offset: 0.063 ms
Remote clock offset: -0.333 ms

Below is generated by plot.py at 2018-05-25 18:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 289.81 Mbit/s
95th percentile per-packet one-way delay: 84.554 ms
Loss rate: 6.47%
-- Flow 1:
Average throughput: 217.06 Mbit/s
95th percentile per-packet one-way delay: 85.403 ms
Loss rate: 8.42%
-- Flow 2:
Average throughput: 81.31 Mbit/s
95th percentile per-packet one-way delay: 1.289 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 56.82 Mbit/s
95th percentile per-packet one-way delay: 2.233 ms
Loss rate: 0.36%

Run 8: Report of PCC-Expr — Data Link

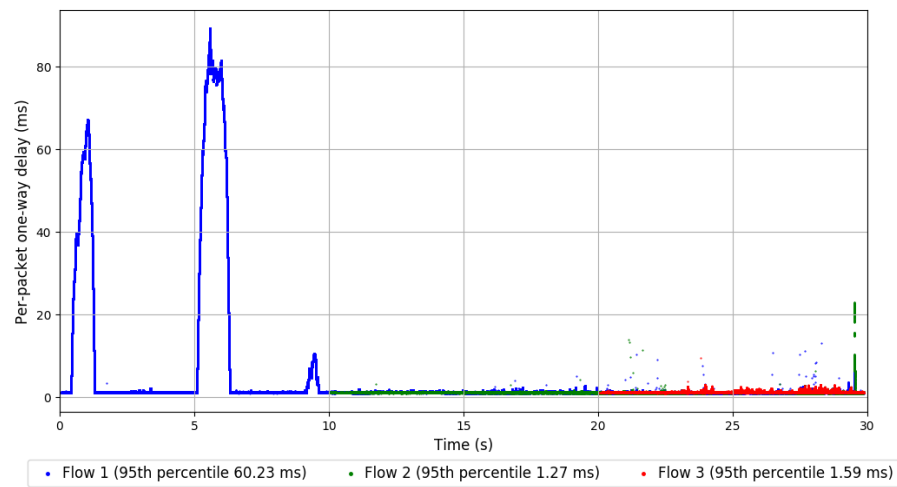
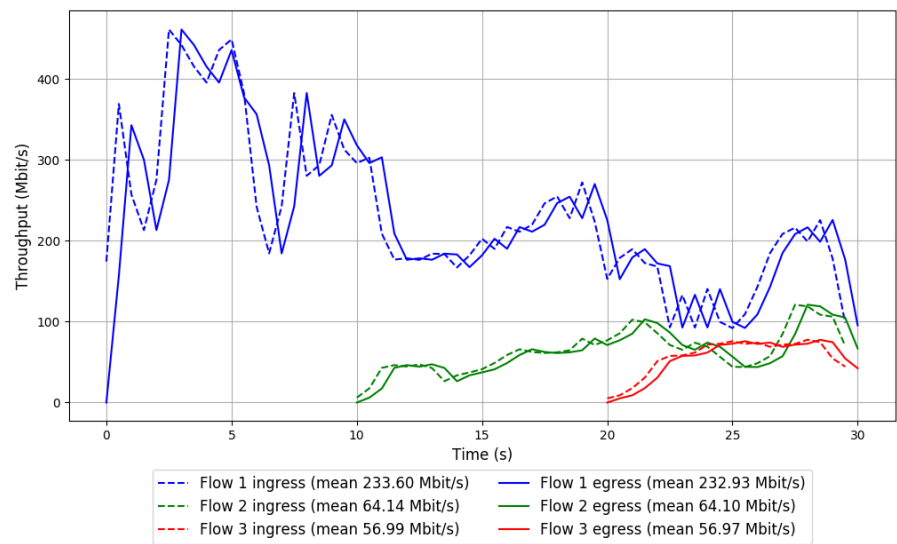


Run 9: Statistics of PCC-Expr

Start at: 2018-05-25 15:32:20
End at: 2018-05-25 15:32:50
Local clock offset: 0.104 ms
Remote clock offset: -0.379 ms

Below is generated by plot.py at 2018-05-25 18:09:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 294.29 Mbit/s
95th percentile per-packet one-way delay: 54.943 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 232.93 Mbit/s
95th percentile per-packet one-way delay: 60.230 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 64.10 Mbit/s
95th percentile per-packet one-way delay: 1.275 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 56.97 Mbit/s
95th percentile per-packet one-way delay: 1.595 ms
Loss rate: 0.21%

Run 9: Report of PCC-Expr — Data Link

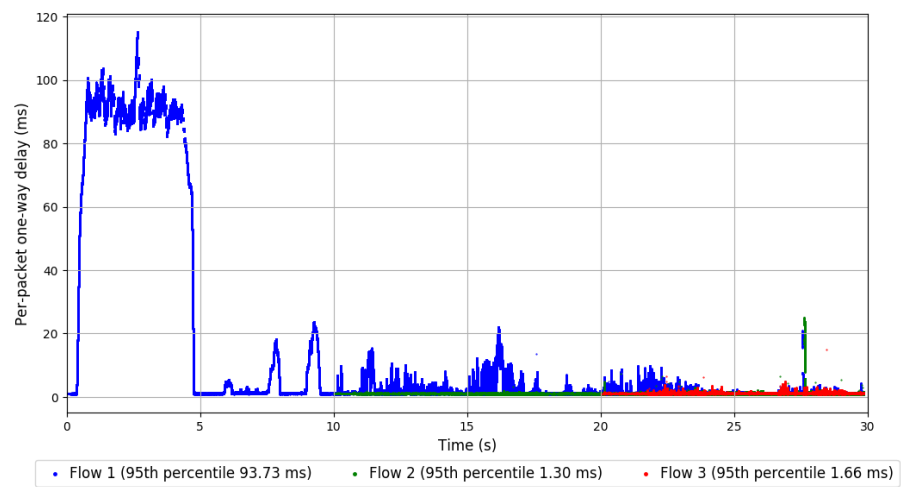
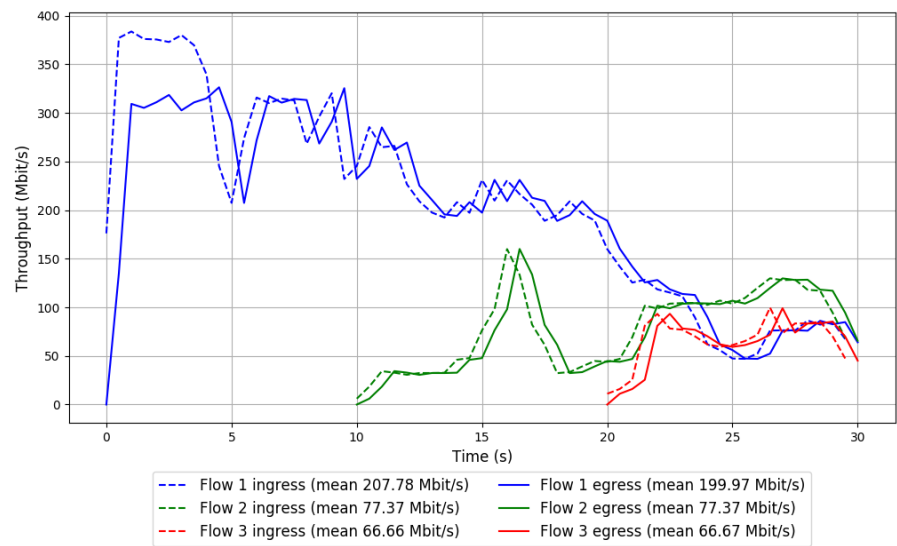


Run 10: Statistics of PCC-Expr

Start at: 2018-05-25 15:57:38
End at: 2018-05-25 15:58:08
Local clock offset: 0.261 ms
Remote clock offset: -0.181 ms

Below is generated by plot.py at 2018-05-25 18:09:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 273.38 Mbit/s
95th percentile per-packet one-way delay: 92.456 ms
Loss rate: 2.85%
-- Flow 1:
Average throughput: 199.97 Mbit/s
95th percentile per-packet one-way delay: 93.731 ms
Loss rate: 3.82%
-- Flow 2:
Average throughput: 77.37 Mbit/s
95th percentile per-packet one-way delay: 1.301 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 66.67 Mbit/s
95th percentile per-packet one-way delay: 1.655 ms
Loss rate: 0.18%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-05-25 12:19:51

End at: 2018-05-25 12:20:21

Local clock offset: 0.173 ms

Remote clock offset: 0.201 ms

Below is generated by plot.py at 2018-05-25 18:09:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.74 Mbit/s

95th percentile per-packet one-way delay: 1.050 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 66.89 Mbit/s

95th percentile per-packet one-way delay: 1.037 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 67.06 Mbit/s

95th percentile per-packet one-way delay: 1.060 ms

Loss rate: 0.09%

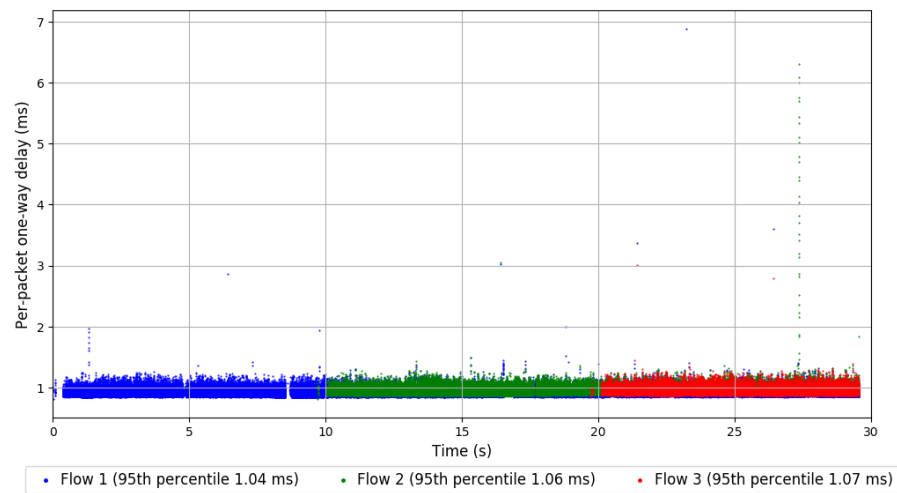
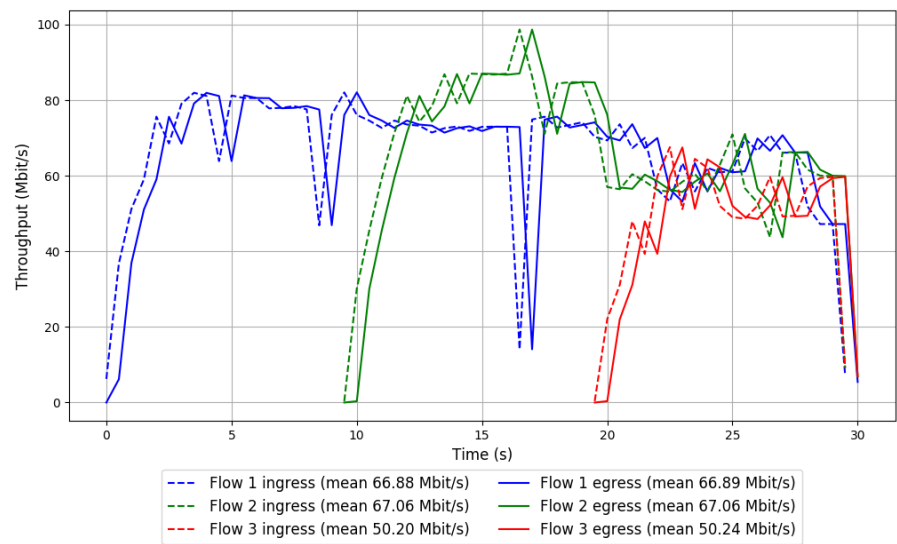
-- Flow 3:

Average throughput: 50.24 Mbit/s

95th percentile per-packet one-way delay: 1.067 ms

Loss rate: 0.24%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-05-25 12:45:20

End at: 2018-05-25 12:45:50

Local clock offset: 0.171 ms

Remote clock offset: 0.344 ms

Below is generated by plot.py at 2018-05-25 18:09:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 137.14 Mbit/s

95th percentile per-packet one-way delay: 1.229 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 75.05 Mbit/s

95th percentile per-packet one-way delay: 1.211 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 66.07 Mbit/s

95th percentile per-packet one-way delay: 1.265 ms

Loss rate: 0.08%

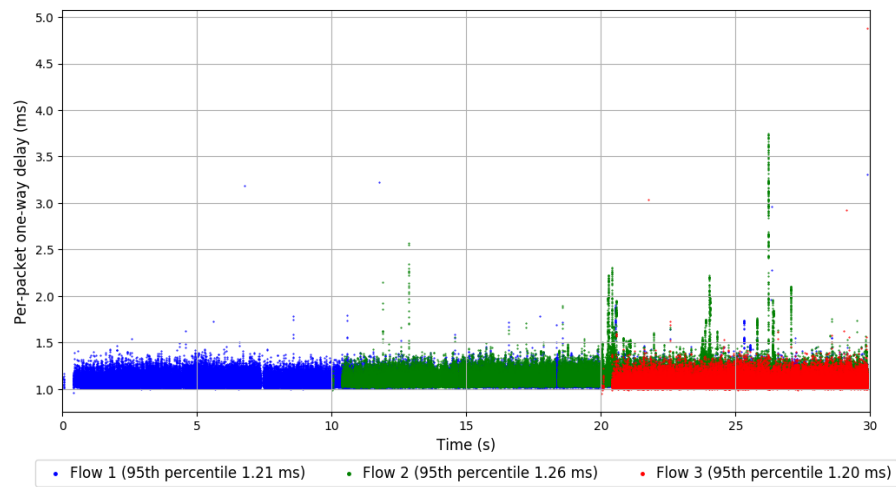
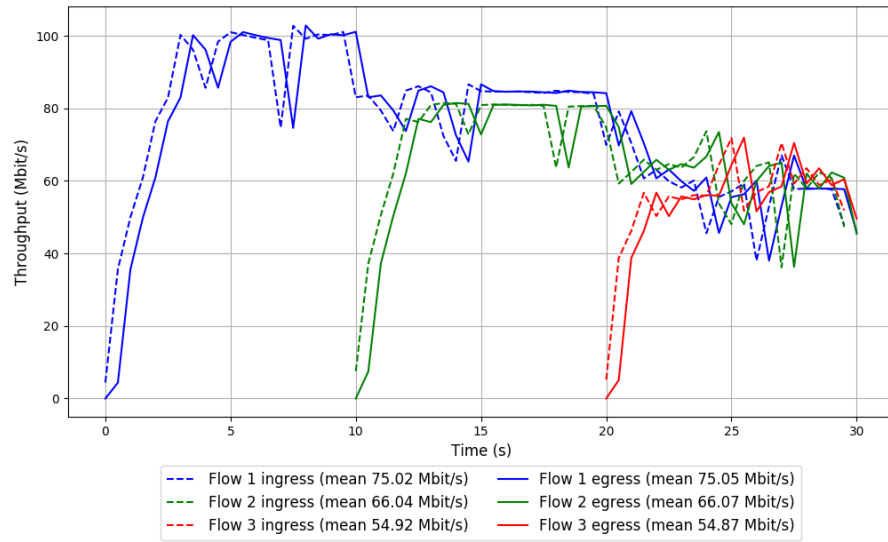
-- Flow 3:

Average throughput: 54.87 Mbit/s

95th percentile per-packet one-way delay: 1.204 ms

Loss rate: 0.22%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-05-25 13:11:01

End at: 2018-05-25 13:11:31

Local clock offset: 0.259 ms

Remote clock offset: 0.042 ms

Below is generated by plot.py at 2018-05-25 18:09:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 133.85 Mbit/s

95th percentile per-packet one-way delay: 1.127 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 71.70 Mbit/s

95th percentile per-packet one-way delay: 1.113 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 67.81 Mbit/s

95th percentile per-packet one-way delay: 1.144 ms

Loss rate: 0.08%

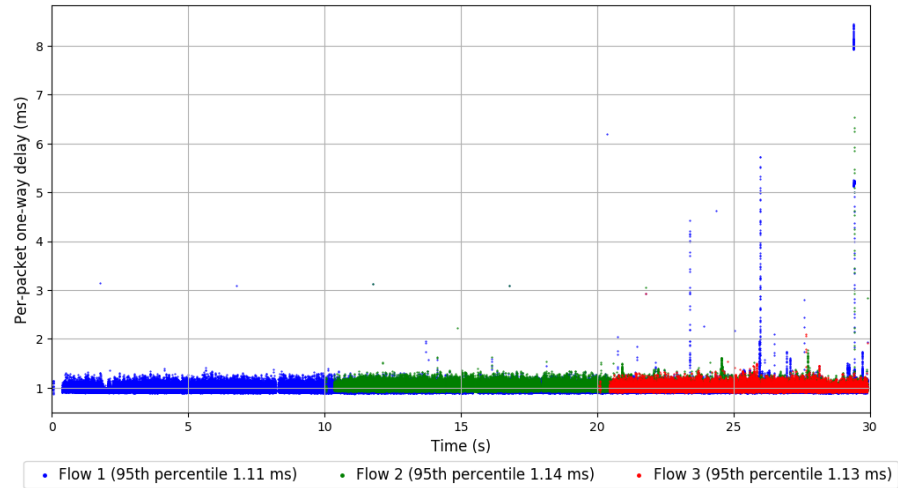
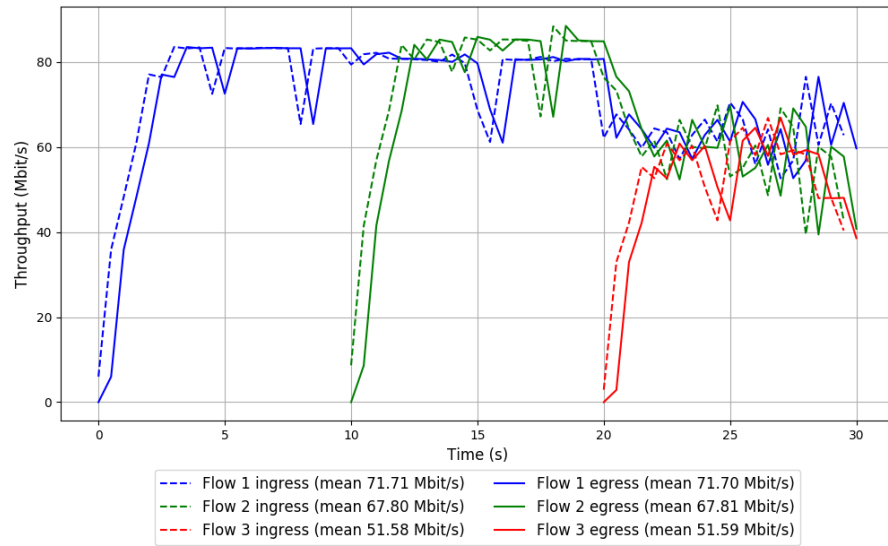
-- Flow 3:

Average throughput: 51.59 Mbit/s

95th percentile per-packet one-way delay: 1.129 ms

Loss rate: 0.18%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-05-25 13:36:30

End at: 2018-05-25 13:37:00

Local clock offset: 0.255 ms

Remote clock offset: -0.3 ms

Below is generated by plot.py at 2018-05-25 18:09:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 136.48 Mbit/s

95th percentile per-packet one-way delay: 1.245 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 76.70 Mbit/s

95th percentile per-packet one-way delay: 1.225 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 64.00 Mbit/s

95th percentile per-packet one-way delay: 1.268 ms

Loss rate: 0.09%

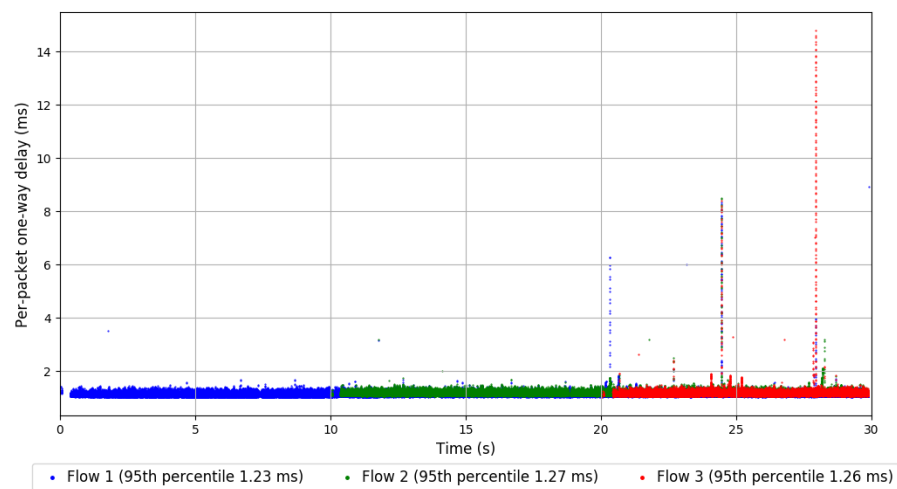
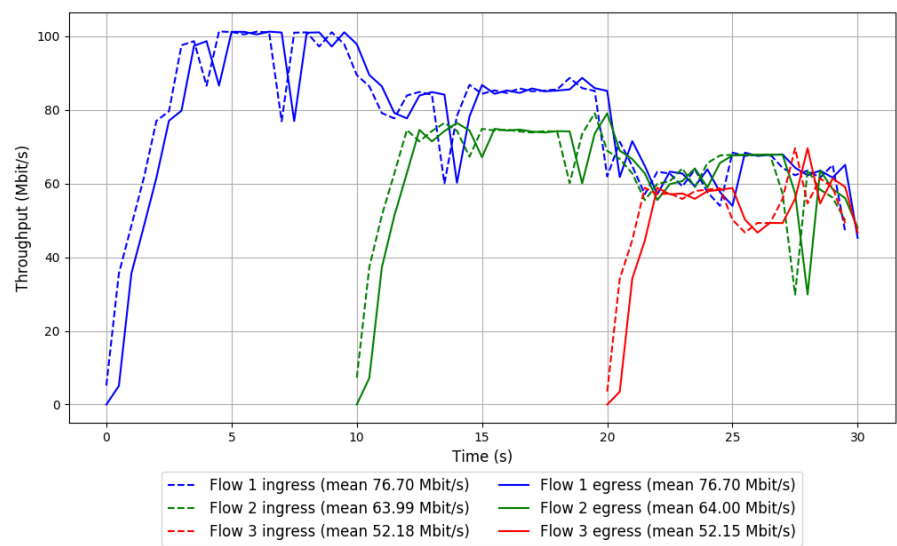
-- Flow 3:

Average throughput: 52.15 Mbit/s

95th percentile per-packet one-way delay: 1.259 ms

Loss rate: 0.25%

Run 4: Report of QUIC Cubic — Data Link

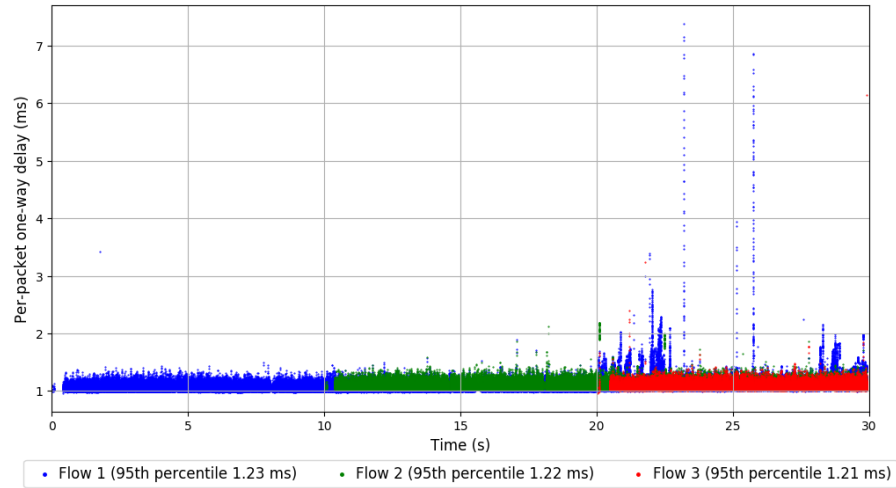
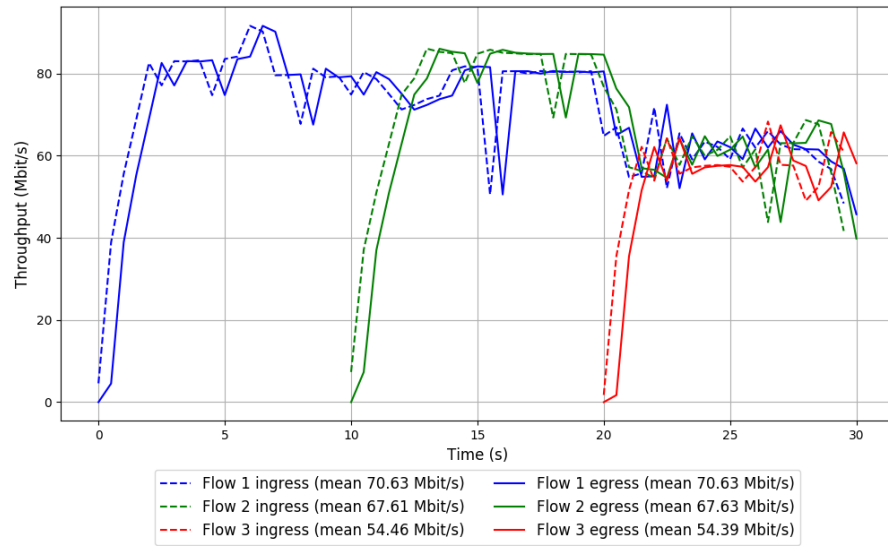


Run 5: Statistics of QUIC Cubic

Start at: 2018-05-25 14:01:53
End at: 2018-05-25 14:02:23
Local clock offset: 0.069 ms
Remote clock offset: -0.242 ms

Below is generated by plot.py at 2018-05-25 18:09:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 133.54 Mbit/s
95th percentile per-packet one-way delay: 1.220 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 70.63 Mbit/s
95th percentile per-packet one-way delay: 1.226 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 67.63 Mbit/s
95th percentile per-packet one-way delay: 1.220 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 54.39 Mbit/s
95th percentile per-packet one-way delay: 1.205 ms
Loss rate: 0.28%

Run 5: Report of QUIC Cubic — Data Link

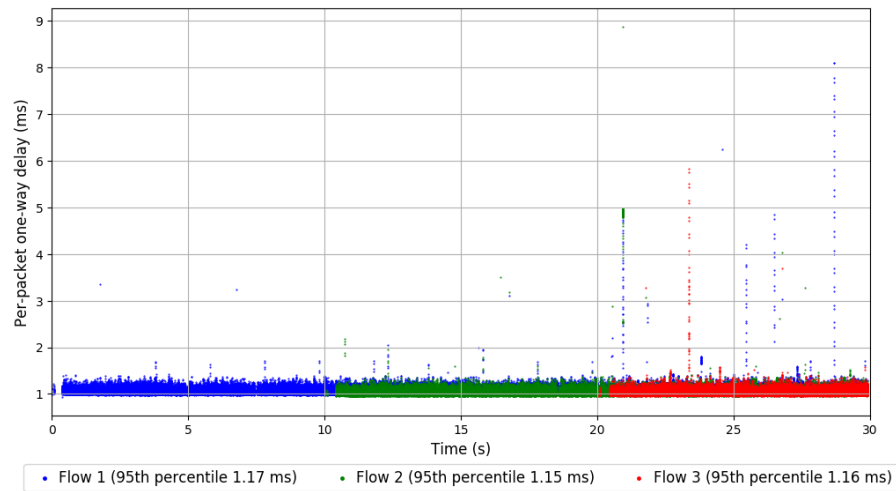
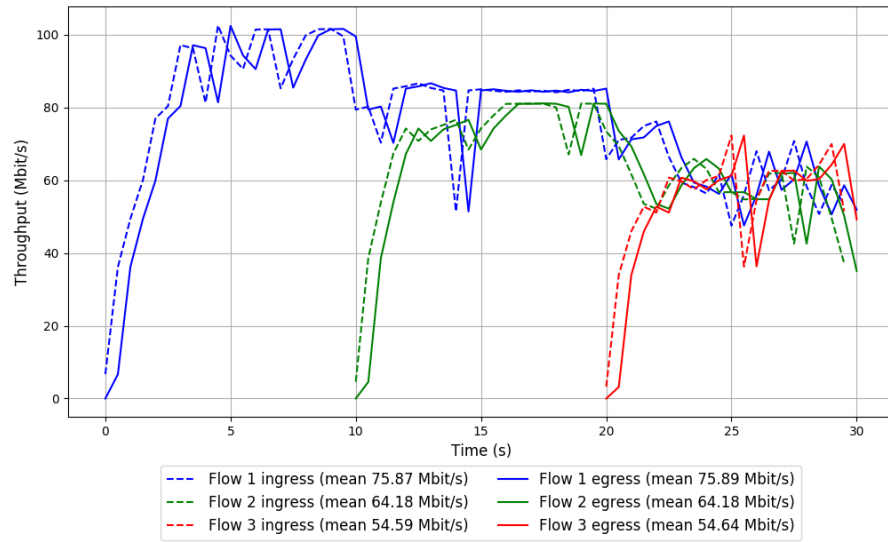


Run 6: Statistics of QUIC Cubic

Start at: 2018-05-25 14:27:13
End at: 2018-05-25 14:27:43
Local clock offset: -0.039 ms
Remote clock offset: -0.104 ms

Below is generated by plot.py at 2018-05-25 18:09:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 136.56 Mbit/s
95th percentile per-packet one-way delay: 1.164 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 75.89 Mbit/s
95th percentile per-packet one-way delay: 1.172 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 64.18 Mbit/s
95th percentile per-packet one-way delay: 1.147 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 54.64 Mbit/s
95th percentile per-packet one-way delay: 1.155 ms
Loss rate: 0.22%

Run 6: Report of QUIC Cubic — Data Link

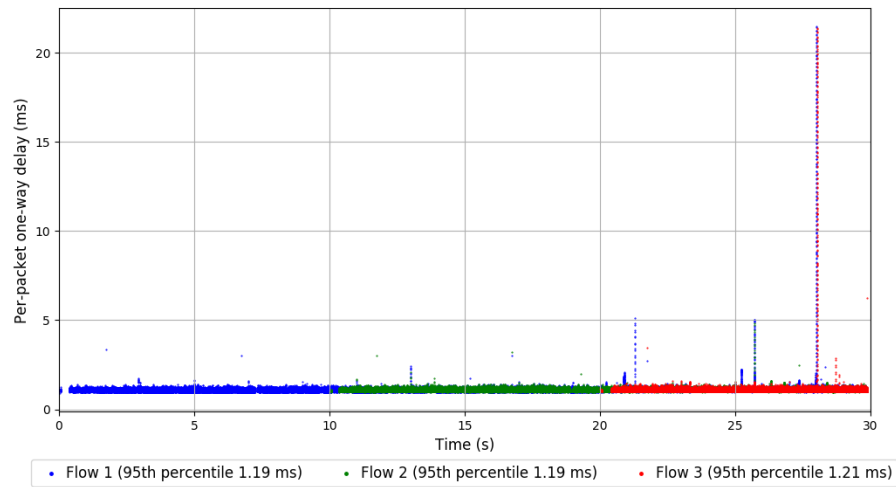
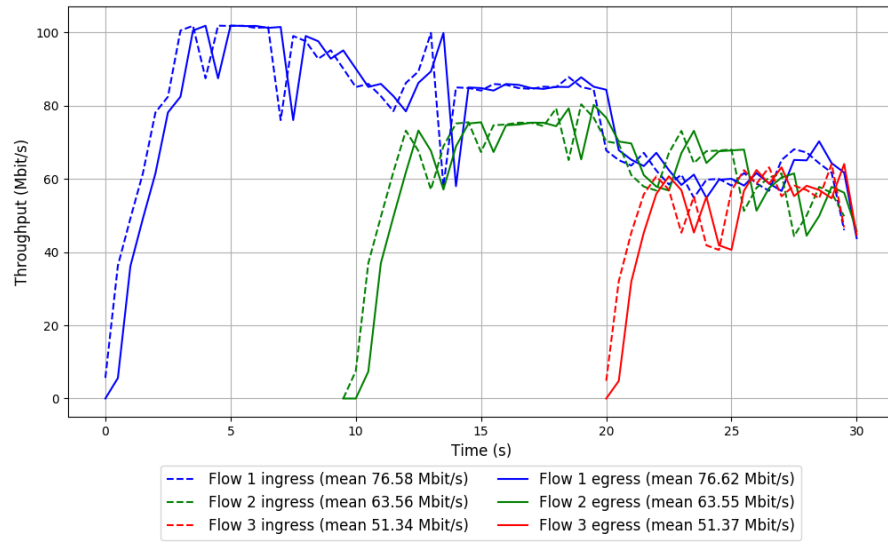


Run 7: Statistics of QUIC Cubic

Start at: 2018-05-25 14:52:40
End at: 2018-05-25 14:53:10
Local clock offset: 0.026 ms
Remote clock offset: -0.252 ms

Below is generated by plot.py at 2018-05-25 18:09:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 135.85 Mbit/s
95th percentile per-packet one-way delay: 1.191 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 76.62 Mbit/s
95th percentile per-packet one-way delay: 1.186 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 63.55 Mbit/s
95th percentile per-packet one-way delay: 1.192 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 51.37 Mbit/s
95th percentile per-packet one-way delay: 1.210 ms
Loss rate: 0.22%

Run 7: Report of QUIC Cubic — Data Link

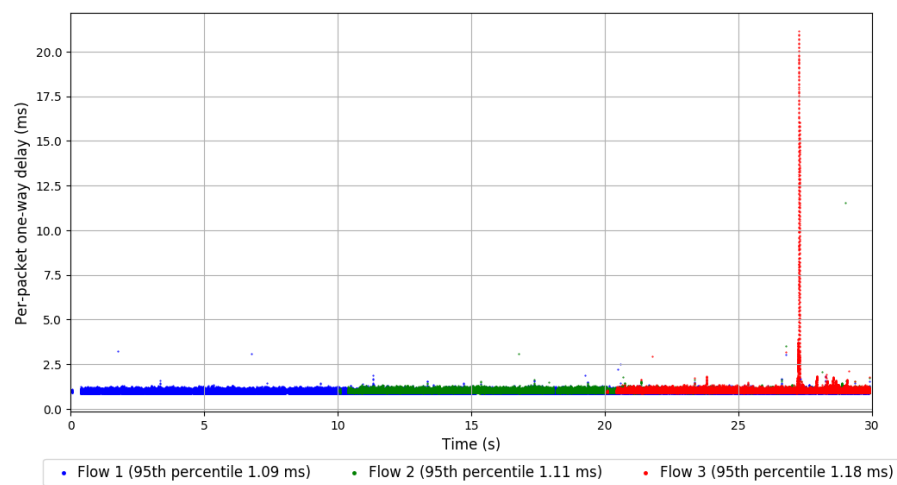
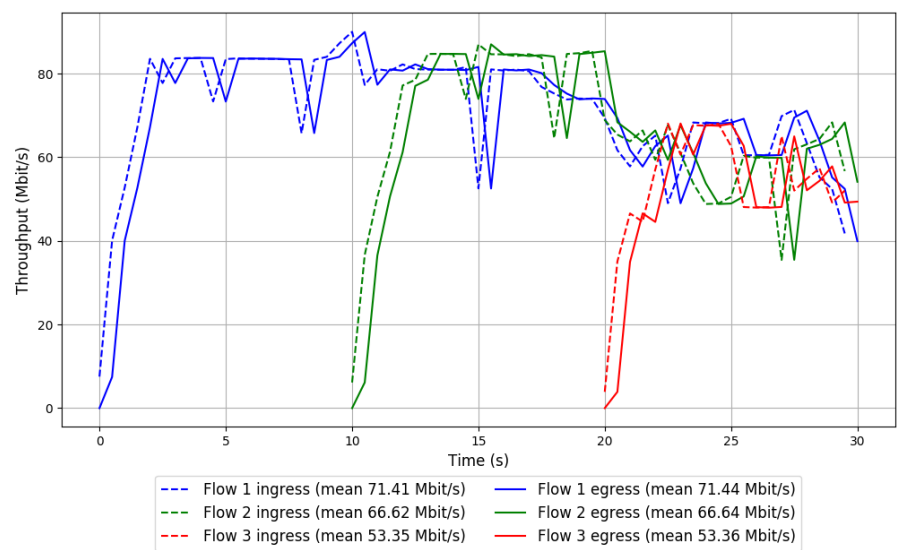


Run 8: Statistics of QUIC Cubic

Start at: 2018-05-25 15:18:07
End at: 2018-05-25 15:18:37
Local clock offset: -0.041 ms
Remote clock offset: -0.334 ms

Below is generated by plot.py at 2018-05-25 18:09:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 133.36 Mbit/s
95th percentile per-packet one-way delay: 1.110 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 71.44 Mbit/s
95th percentile per-packet one-way delay: 1.093 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 66.64 Mbit/s
95th percentile per-packet one-way delay: 1.111 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 53.36 Mbit/s
95th percentile per-packet one-way delay: 1.179 ms
Loss rate: 0.26%

Run 8: Report of QUIC Cubic — Data Link

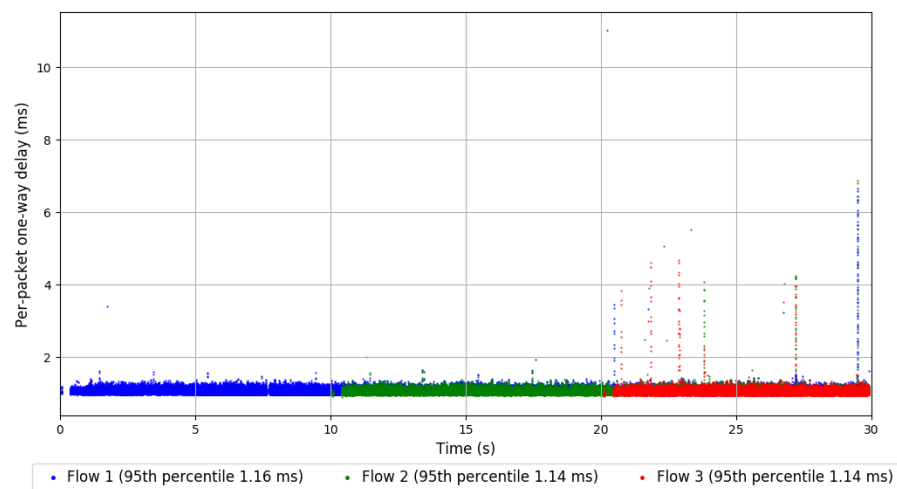
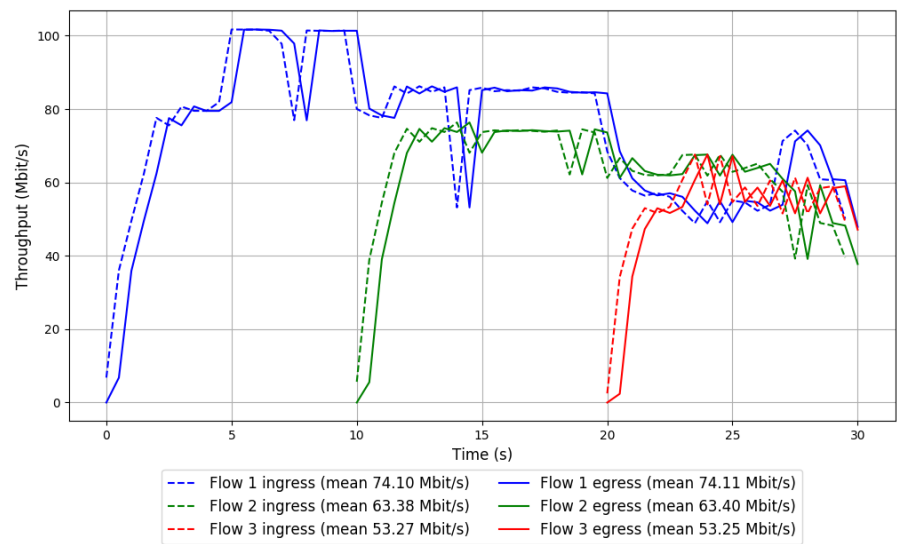


Run 9: Statistics of QUIC Cubic

Start at: 2018-05-25 15:43:35
End at: 2018-05-25 15:44:05
Local clock offset: 0.197 ms
Remote clock offset: -0.293 ms

Below is generated by plot.py at 2018-05-25 18:09:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 133.78 Mbit/s
95th percentile per-packet one-way delay: 1.153 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 74.11 Mbit/s
95th percentile per-packet one-way delay: 1.161 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 63.40 Mbit/s
95th percentile per-packet one-way delay: 1.143 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 53.25 Mbit/s
95th percentile per-packet one-way delay: 1.137 ms
Loss rate: 0.23%

Run 9: Report of QUIC Cubic — Data Link

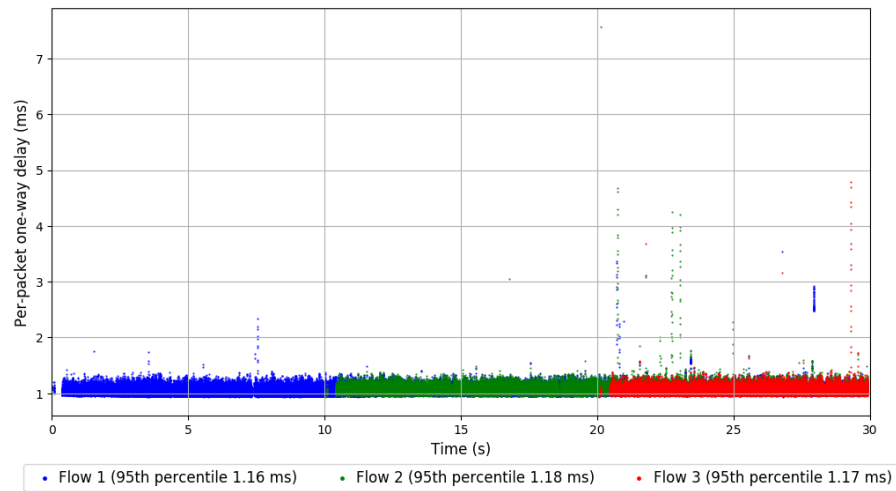
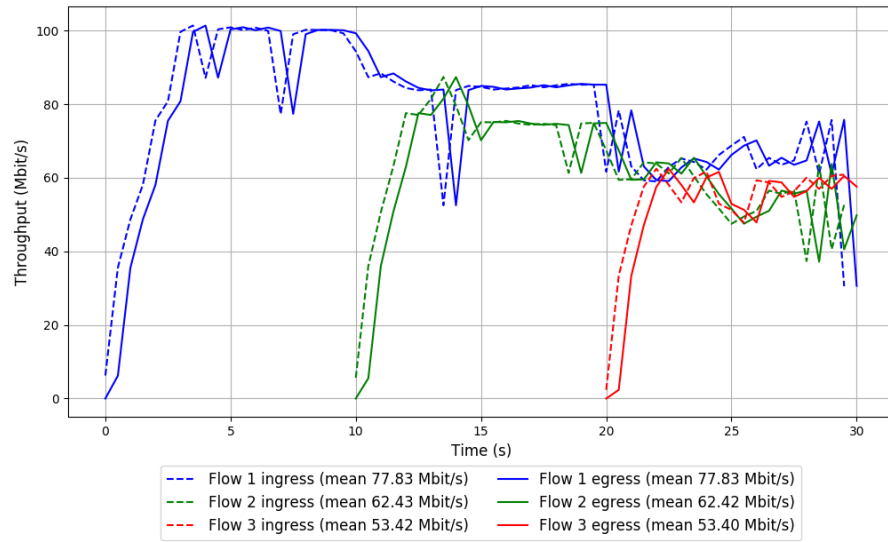


Run 10: Statistics of QUIC Cubic

Start at: 2018-05-25 16:08:45
End at: 2018-05-25 16:09:15
Local clock offset: 0.14 ms
Remote clock offset: -0.186 ms

Below is generated by plot.py at 2018-05-25 18:10:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 136.50 Mbit/s
95th percentile per-packet one-way delay: 1.168 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 77.83 Mbit/s
95th percentile per-packet one-way delay: 1.162 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 62.42 Mbit/s
95th percentile per-packet one-way delay: 1.178 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 53.40 Mbit/s
95th percentile per-packet one-way delay: 1.166 ms
Loss rate: 0.32%

Run 10: Report of QUIC Cubic — Data Link

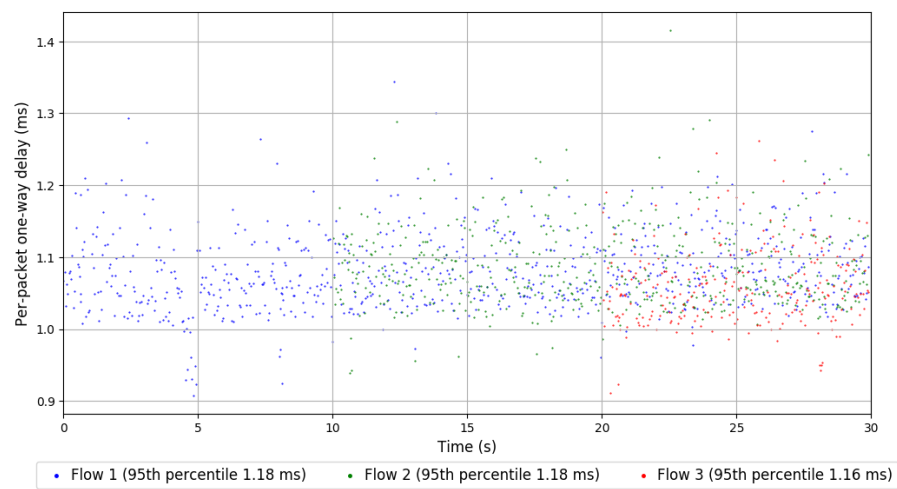
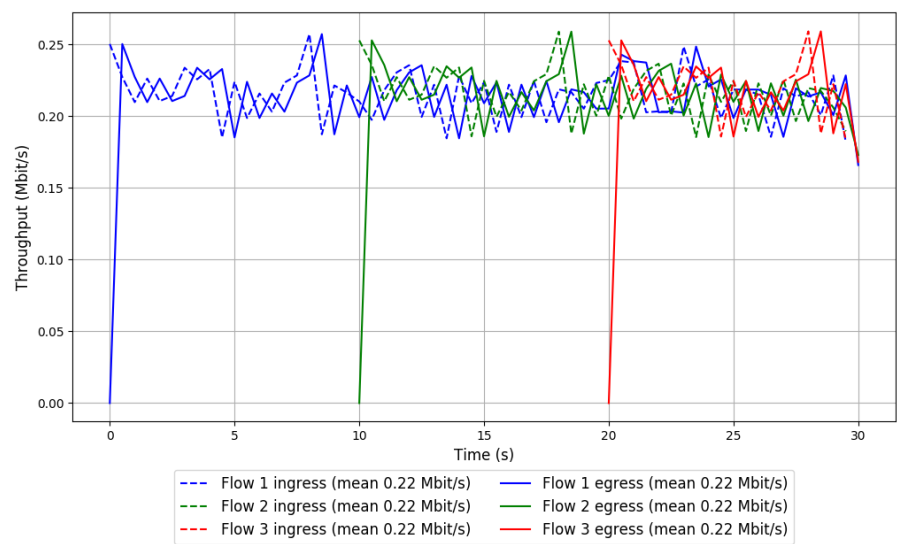


```
Run 1: Statistics of SReAM

Start at: 2018-05-25 12:24:42
End at: 2018-05-25 12:25:12
Local clock offset: 0.151 ms
Remote clock offset: 0.206 ms

# Below is generated by plot.py at 2018-05-25 18:10:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.182 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.181 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.183 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.163 ms
Loss rate: 0.35%
```

Run 1: Report of SReAM — Data Link

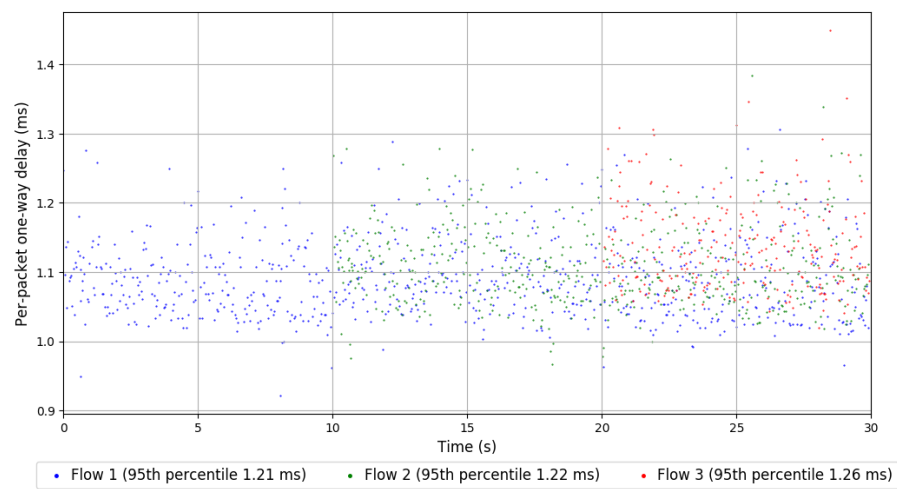
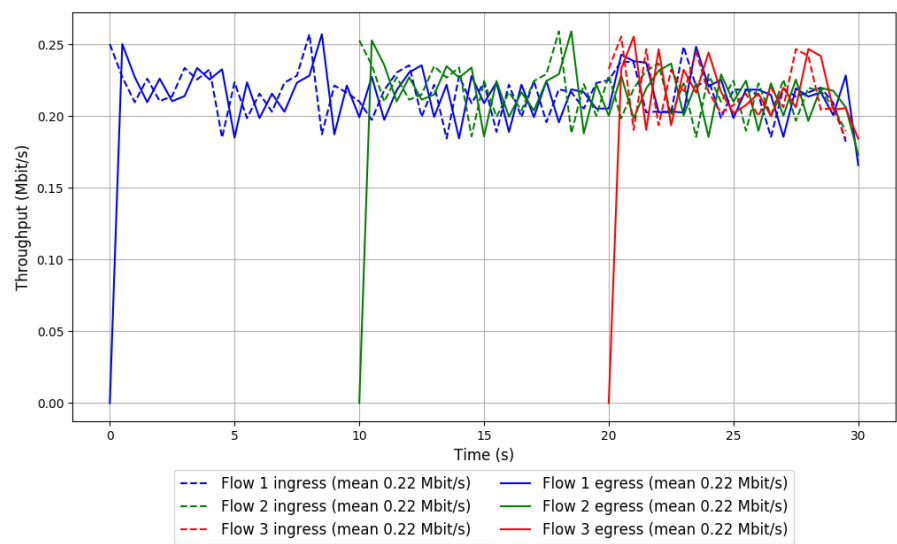


```
Run 2: Statistics of SReAM

Start at: 2018-05-25 12:50:07
End at: 2018-05-25 12:50:37
Local clock offset: 0.165 ms
Remote clock offset: 0.337 ms

# Below is generated by plot.py at 2018-05-25 18:10:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.225 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.205 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.221 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.261 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-05-25 13:15:44

End at: 2018-05-25 13:16:14

Local clock offset: 0.415 ms

Remote clock offset: 0.072 ms

Below is generated by plot.py at 2018-05-25 18:10:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.384 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.399 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.371 ms

Loss rate: 0.19%

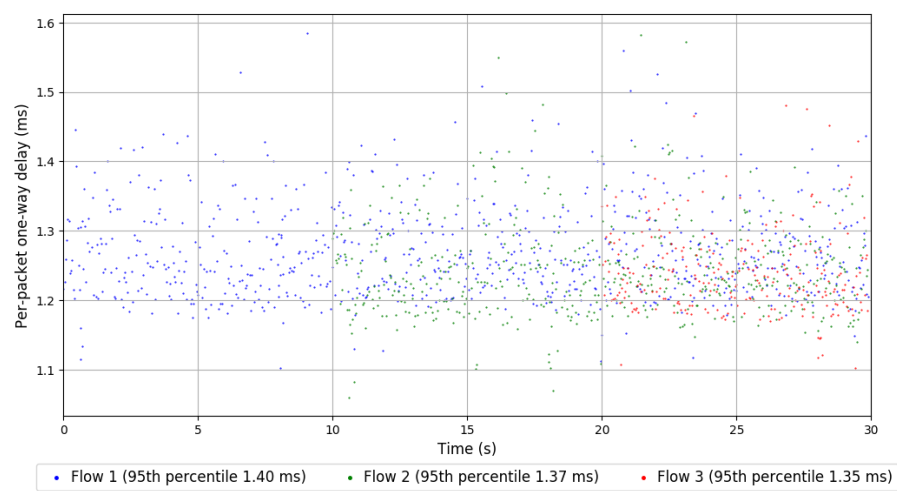
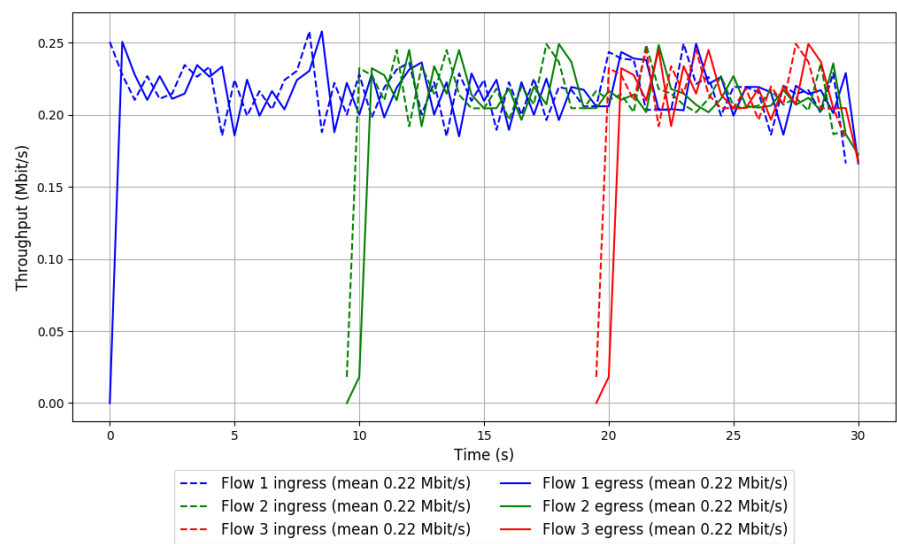
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.349 ms

Loss rate: 0.36%

Run 3: Report of SReAM — Data Link

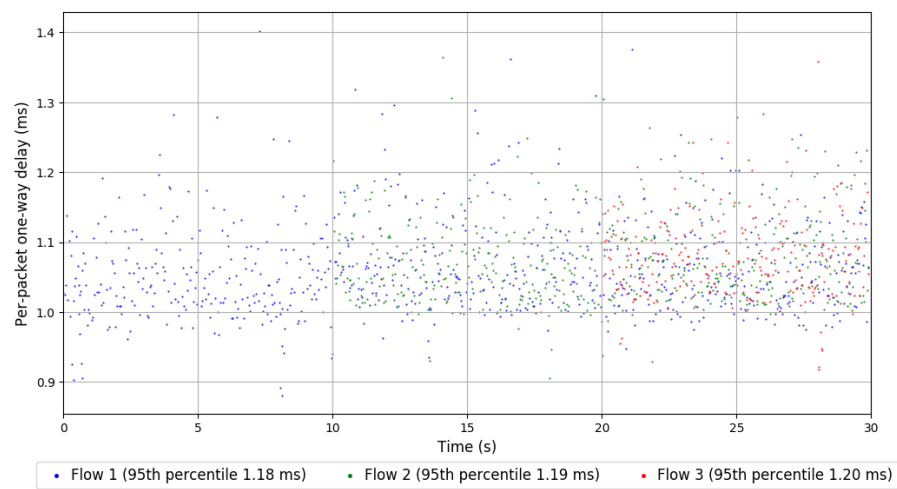
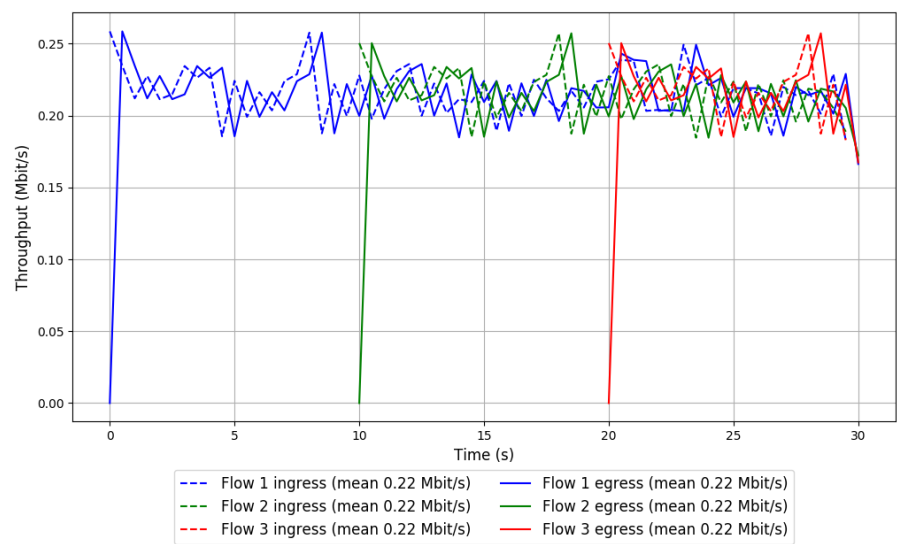


Run 4: Statistics of SReAM

Start at: 2018-05-25 13:41:12
End at: 2018-05-25 13:41:42
Local clock offset: 0.096 ms
Remote clock offset: -0.272 ms

Below is generated by plot.py at 2018-05-25 18:10:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.185 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.180 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.189 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.199 ms
Loss rate: 0.36%

Run 4: Report of SReAM — Data Link

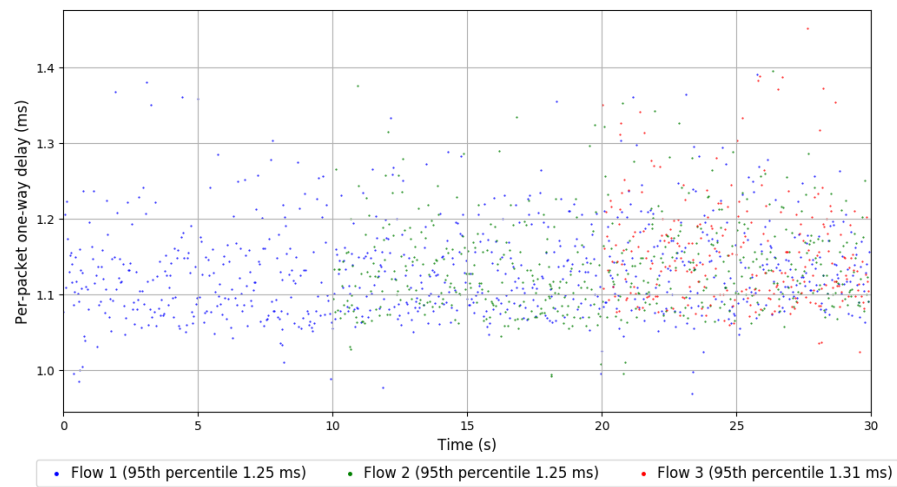
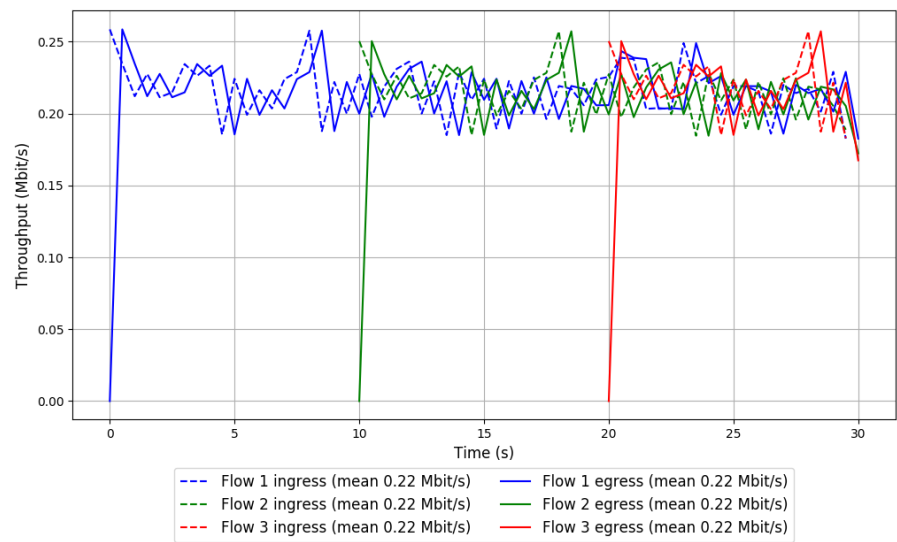


Run 5: Statistics of SReAM

Start at: 2018-05-25 14:06:39
End at: 2018-05-25 14:07:09
Local clock offset: 0.074 ms
Remote clock offset: -0.085 ms

Below is generated by plot.py at 2018-05-25 18:10:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.256 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.249 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.255 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.311 ms
Loss rate: 0.36%

Run 5: Report of SReAM — Data Link

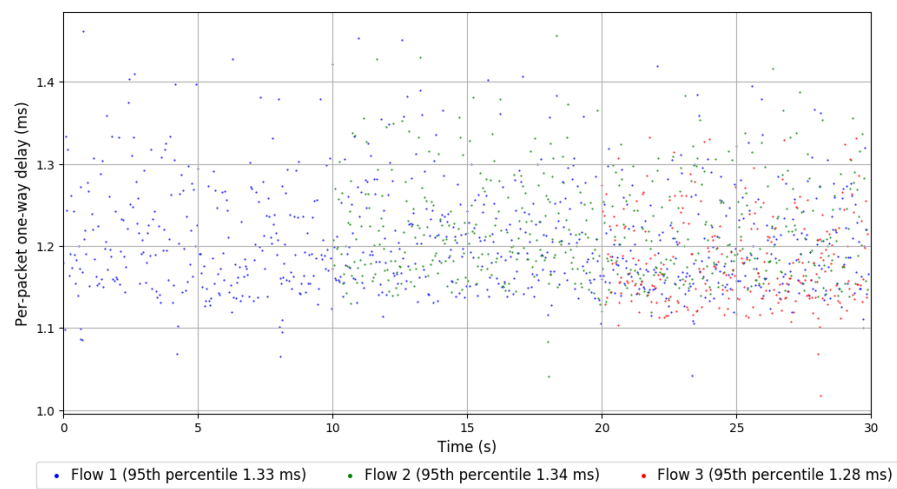
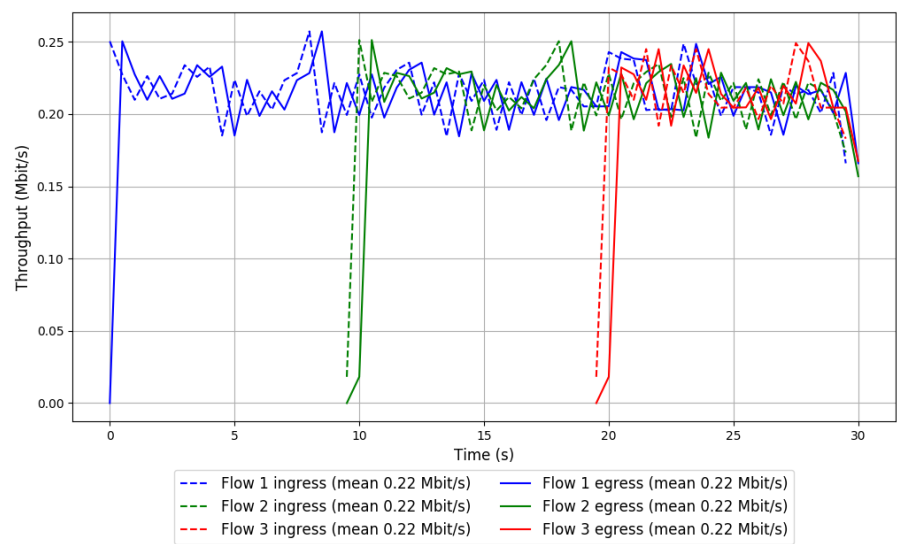


Run 6: Statistics of SCReAM

Start at: 2018-05-25 14:31:55
End at: 2018-05-25 14:32:25
Local clock offset: 0.035 ms
Remote clock offset: -0.125 ms

Below is generated by plot.py at 2018-05-25 18:10:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.330 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.334 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.337 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.282 ms
Loss rate: 0.36%

Run 6: Report of SReAM — Data Link

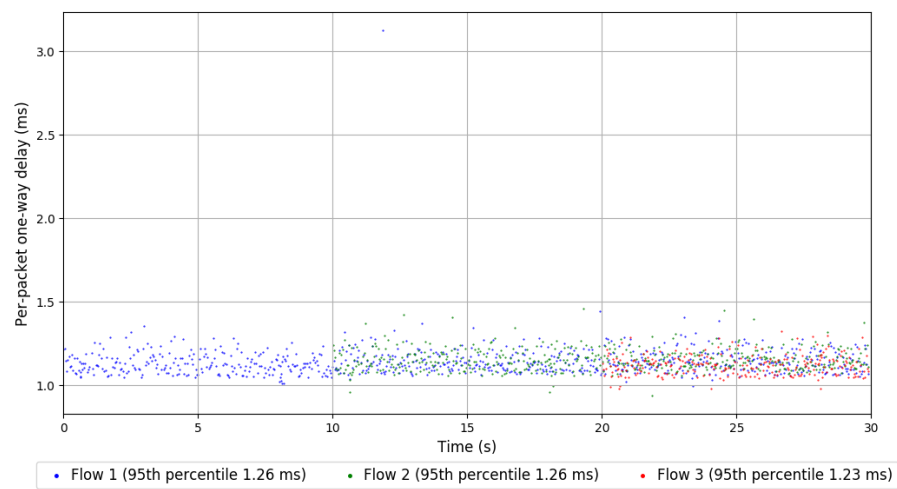
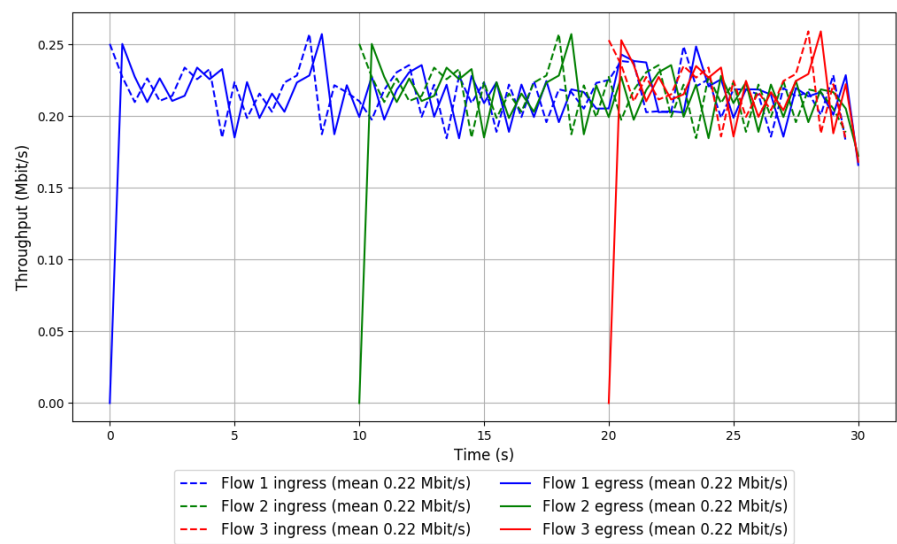


Run 7: Statistics of SReAM

Start at: 2018-05-25 14:57:23
End at: 2018-05-25 14:57:53
Local clock offset: -0.079 ms
Remote clock offset: -0.292 ms

Below is generated by plot.py at 2018-05-25 18:10:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.256 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.262 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.260 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.231 ms
Loss rate: 0.35%

Run 7: Report of SReAM — Data Link

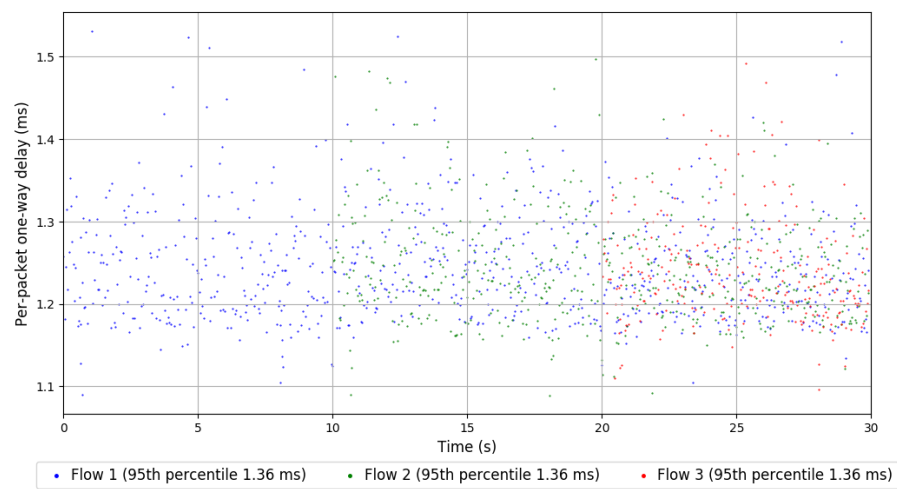
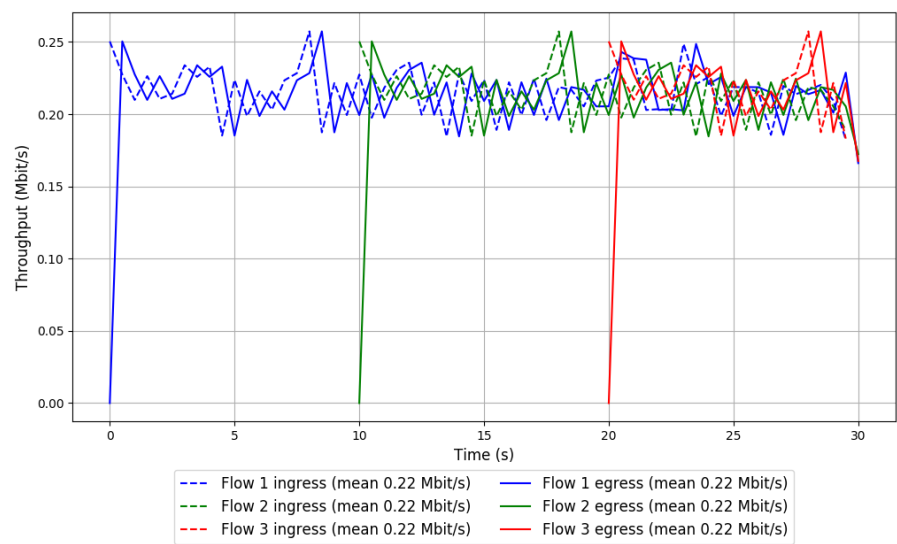


Run 8: Statistics of SReAM

Start at: 2018-05-25 15:22:56
End at: 2018-05-25 15:23:26
Local clock offset: 0.05 ms
Remote clock offset: -0.381 ms

Below is generated by plot.py at 2018-05-25 18:10:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.364 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.365 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.362 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.364 ms
Loss rate: 0.36%

Run 8: Report of SReAM — Data Link

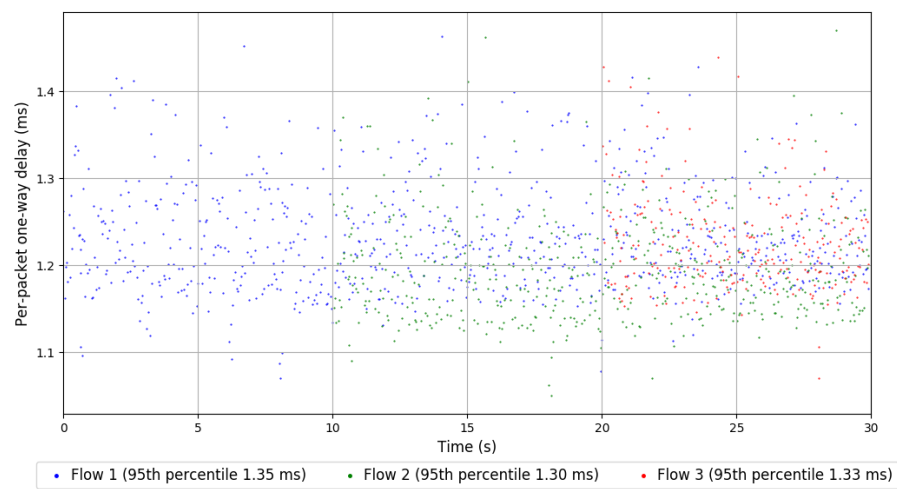
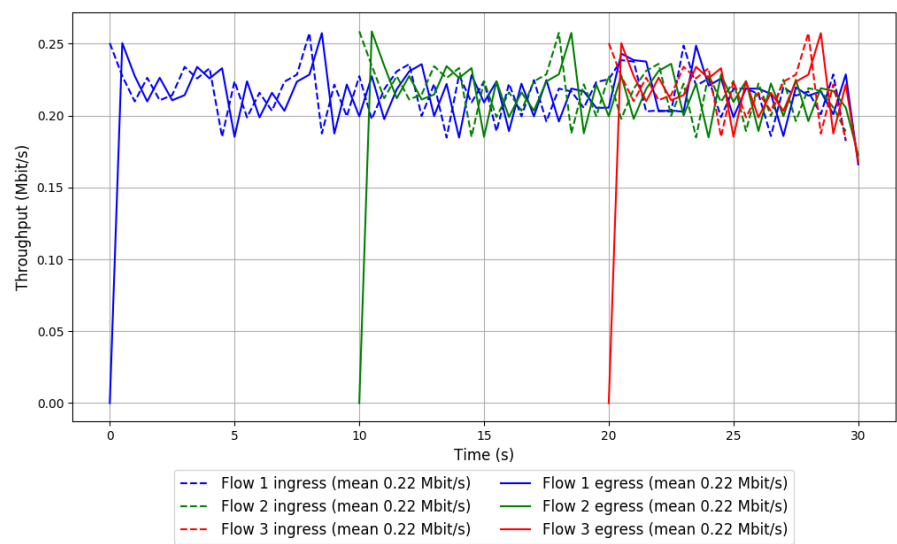


Run 9: Statistics of SReAM

Start at: 2018-05-25 15:48:22
End at: 2018-05-25 15:48:52
Local clock offset: 0.234 ms
Remote clock offset: -0.286 ms

Below is generated by plot.py at 2018-05-25 18:10:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.338 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.348 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.305 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.335 ms
Loss rate: 0.36%

Run 9: Report of SReAM — Data Link

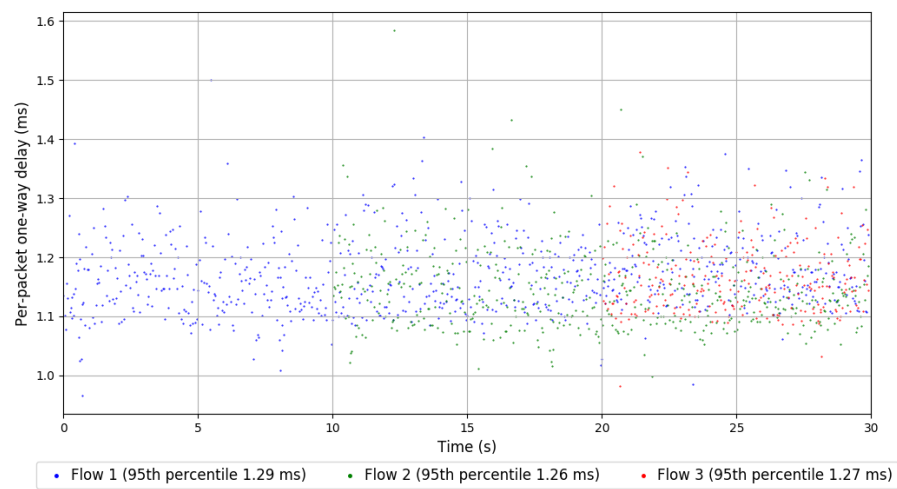
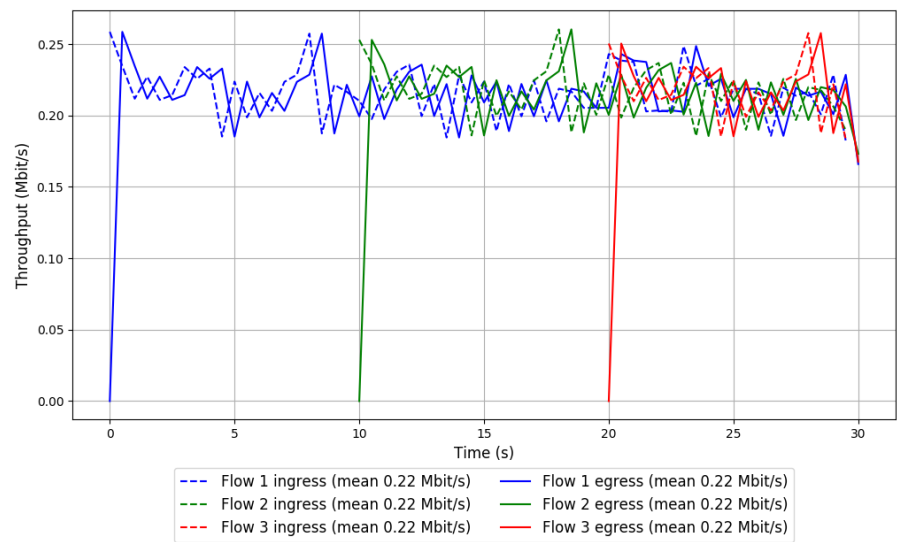


Run 10: Statistics of SReAM

Start at: 2018-05-25 16:13:33
End at: 2018-05-25 16:14:03
Local clock offset: 0.103 ms
Remote clock offset: -0.163 ms

Below is generated by plot.py at 2018-05-25 18:10:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.281 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.287 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.261 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.274 ms
Loss rate: 0.36%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-05-25 12:30:55

End at: 2018-05-25 12:31:25

Local clock offset: 0.213 ms

Remote clock offset: 0.279 ms

Below is generated by plot.py at 2018-05-25 18:10:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.19 Mbit/s

95th percentile per-packet one-way delay: 1.168 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 21.49 Mbit/s

95th percentile per-packet one-way delay: 1.177 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.95 Mbit/s

95th percentile per-packet one-way delay: 1.166 ms

Loss rate: 0.24%

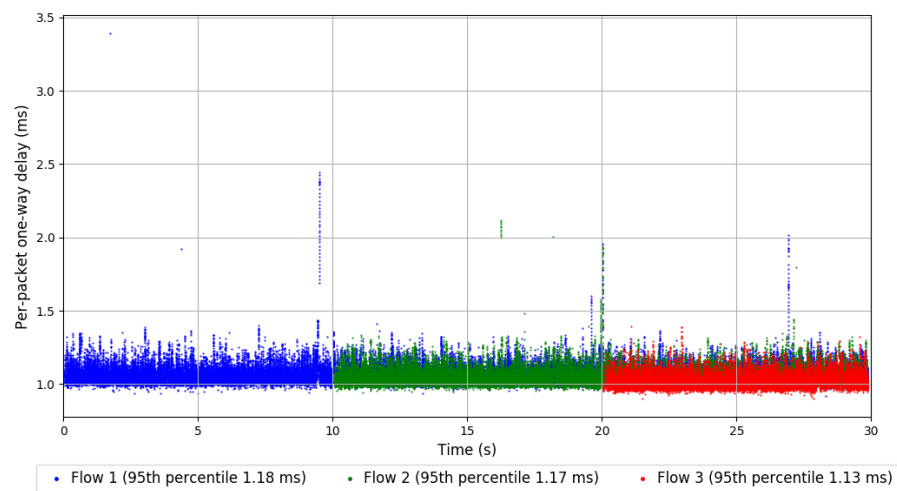
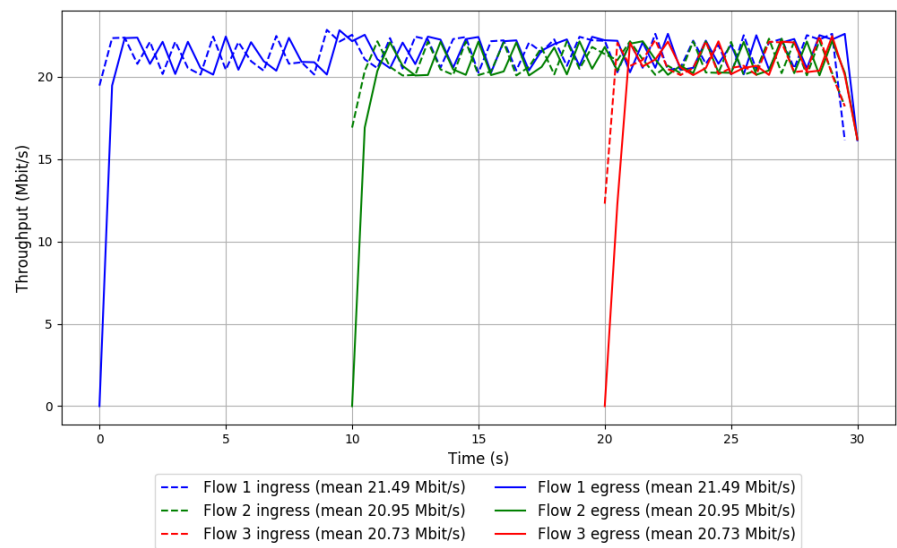
-- Flow 3:

Average throughput: 20.73 Mbit/s

95th percentile per-packet one-way delay: 1.133 ms

Loss rate: 0.49%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-05-25 12:56:26

End at: 2018-05-25 12:56:56

Local clock offset: 0.059 ms

Remote clock offset: 0.224 ms

Below is generated by plot.py at 2018-05-25 18:10:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.72 Mbit/s

95th percentile per-packet one-way delay: 1.026 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 20.82 Mbit/s

95th percentile per-packet one-way delay: 1.033 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 20.79 Mbit/s

95th percentile per-packet one-way delay: 1.022 ms

Loss rate: 0.00%

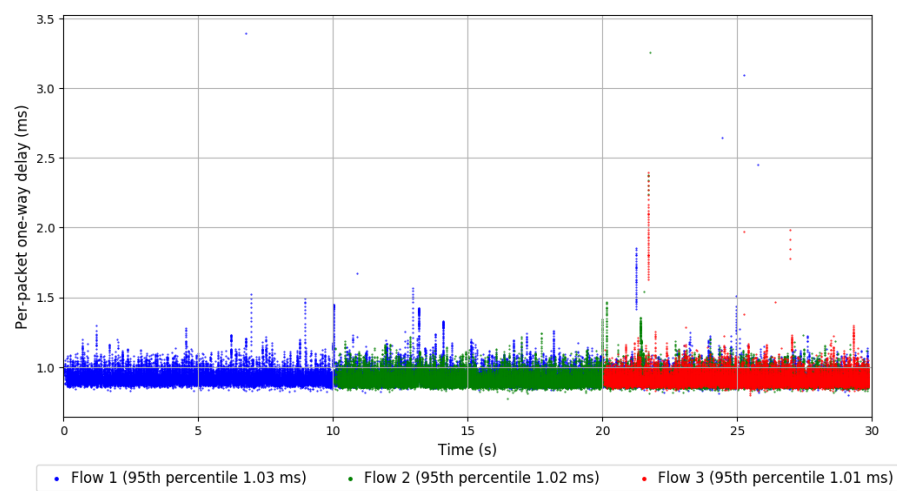
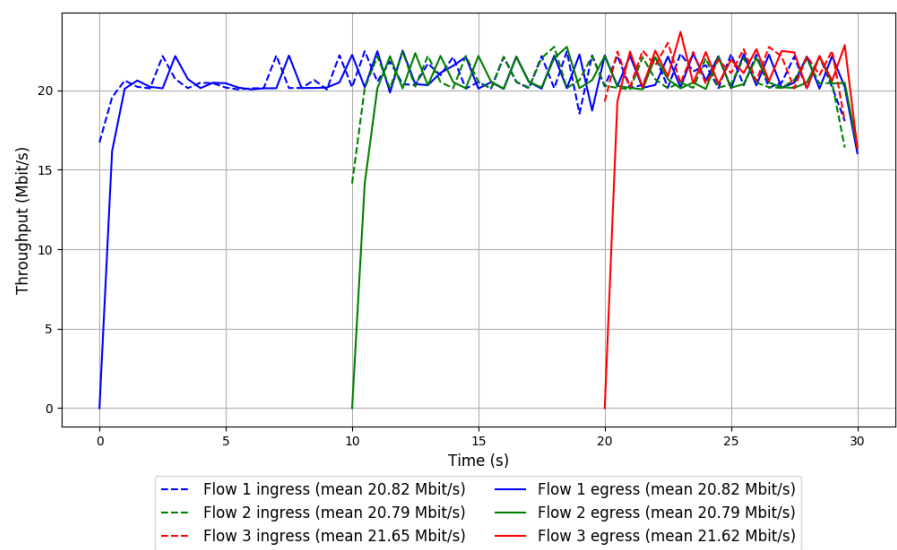
-- Flow 3:

Average throughput: 21.62 Mbit/s

95th percentile per-packet one-way delay: 1.015 ms

Loss rate: 0.40%

Run 2: Report of Sprout — Data Link

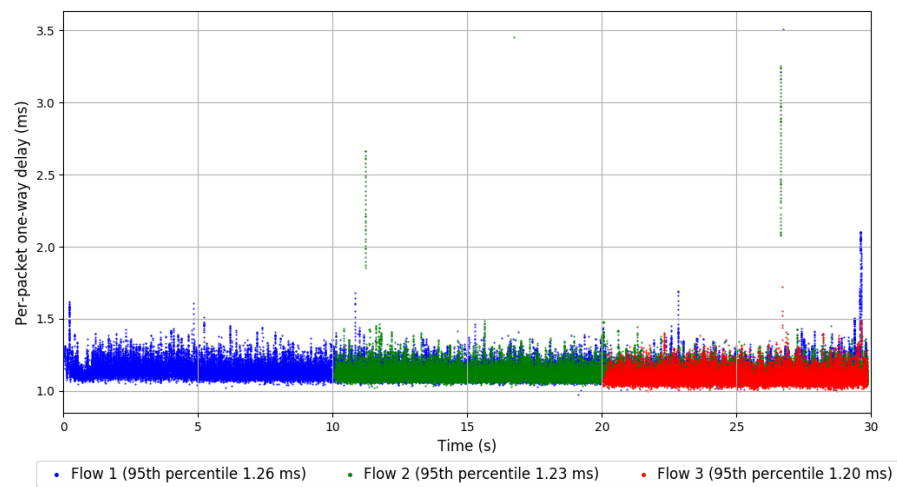
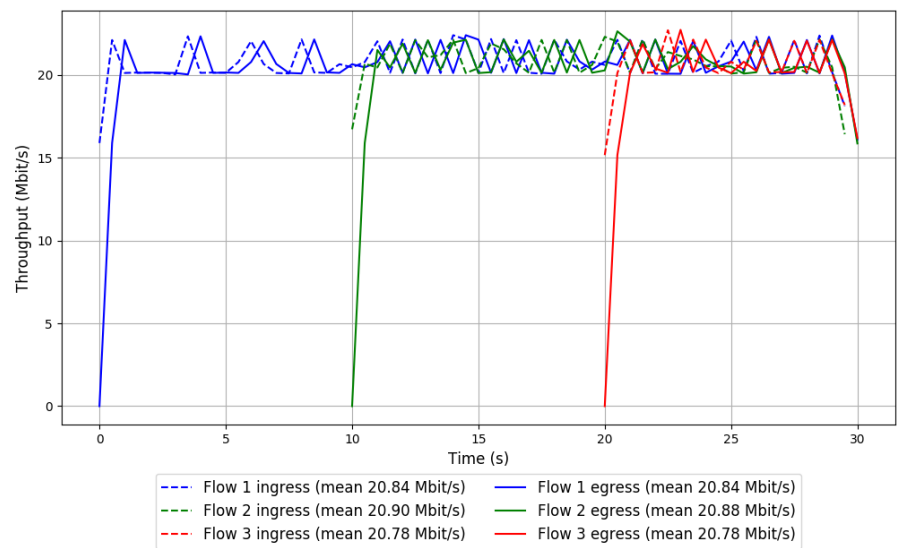


Run 3: Statistics of Sprout

Start at: 2018-05-25 13:22:02
End at: 2018-05-25 13:22:32
Local clock offset: 0.438 ms
Remote clock offset: 0.071 ms

```
# Below is generated by plot.py at 2018-05-25 18:10:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.52 Mbit/s
95th percentile per-packet one-way delay: 1.244 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 20.84 Mbit/s
95th percentile per-packet one-way delay: 1.259 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 20.88 Mbit/s
95th percentile per-packet one-way delay: 1.232 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 20.78 Mbit/s
95th percentile per-packet one-way delay: 1.204 ms
Loss rate: 0.49%
```

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-05-25 13:47:24

End at: 2018-05-25 13:47:54

Local clock offset: 0.158 ms

Remote clock offset: -0.38 ms

Below is generated by plot.py at 2018-05-25 18:10:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.32 Mbit/s

95th percentile per-packet one-way delay: 1.252 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 20.71 Mbit/s

95th percentile per-packet one-way delay: 1.271 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.81 Mbit/s

95th percentile per-packet one-way delay: 1.226 ms

Loss rate: 0.00%

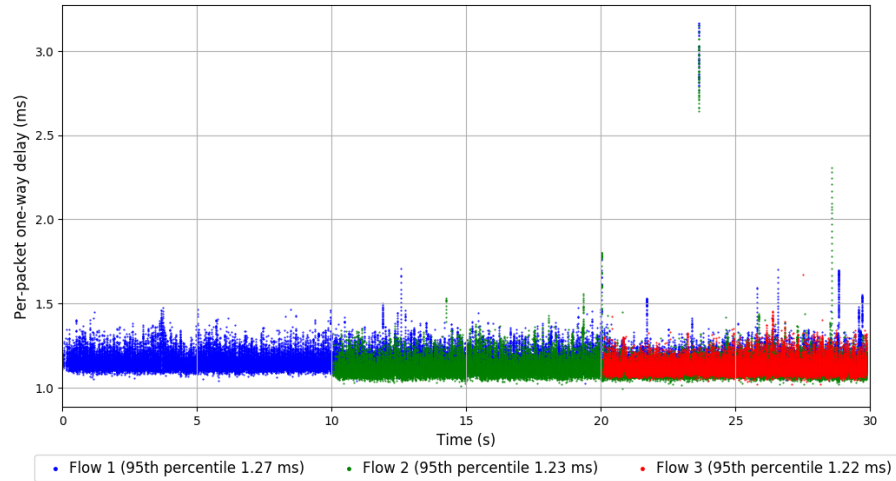
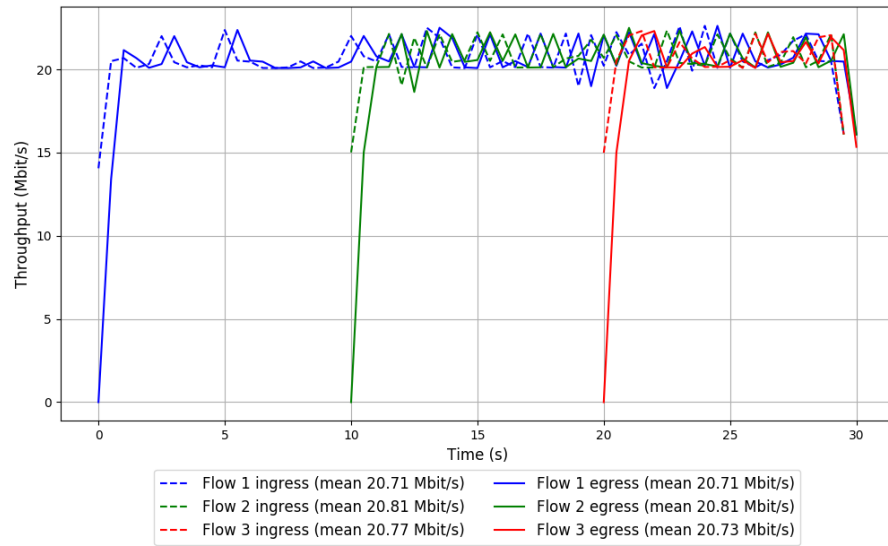
-- Flow 3:

Average throughput: 20.73 Mbit/s

95th percentile per-packet one-way delay: 1.223 ms

Loss rate: 0.40%

Run 4: Report of Sprout — Data Link

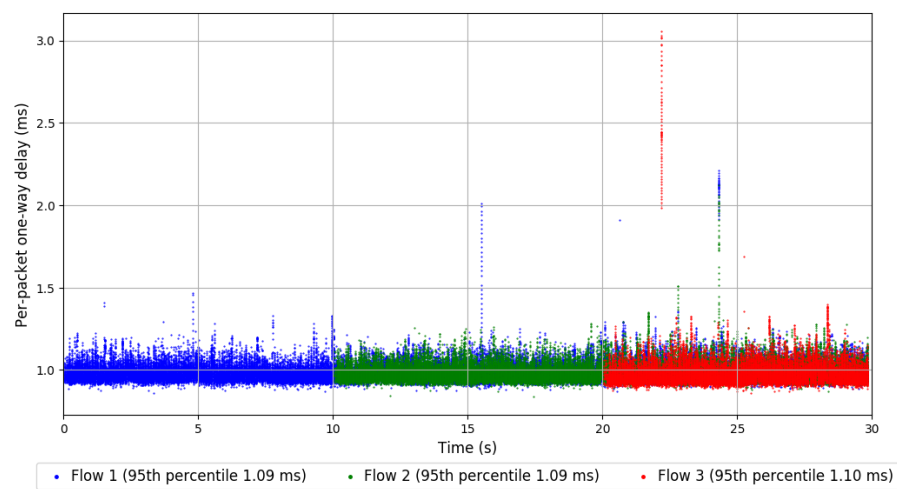
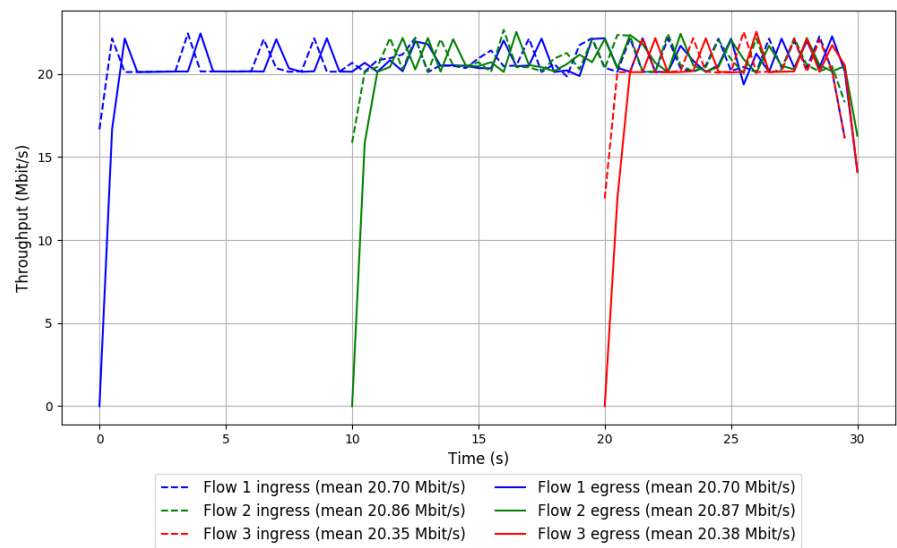


Run 5: Statistics of Sprout

Start at: 2018-05-25 14:12:58
End at: 2018-05-25 14:13:28
Local clock offset: -0.018 ms
Remote clock offset: -0.059 ms

```
# Below is generated by plot.py at 2018-05-25 18:10:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.24 Mbit/s
95th percentile per-packet one-way delay: 1.093 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 20.70 Mbit/s
95th percentile per-packet one-way delay: 1.088 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 20.87 Mbit/s
95th percentile per-packet one-way delay: 1.094 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 20.38 Mbit/s
95th percentile per-packet one-way delay: 1.102 ms
Loss rate: 0.50%
```


Run 5: Report of Sprout — Data Link

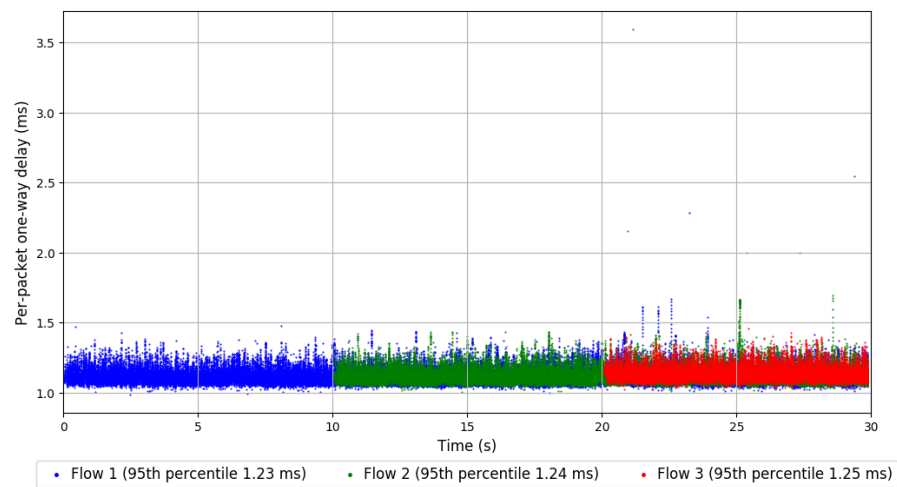
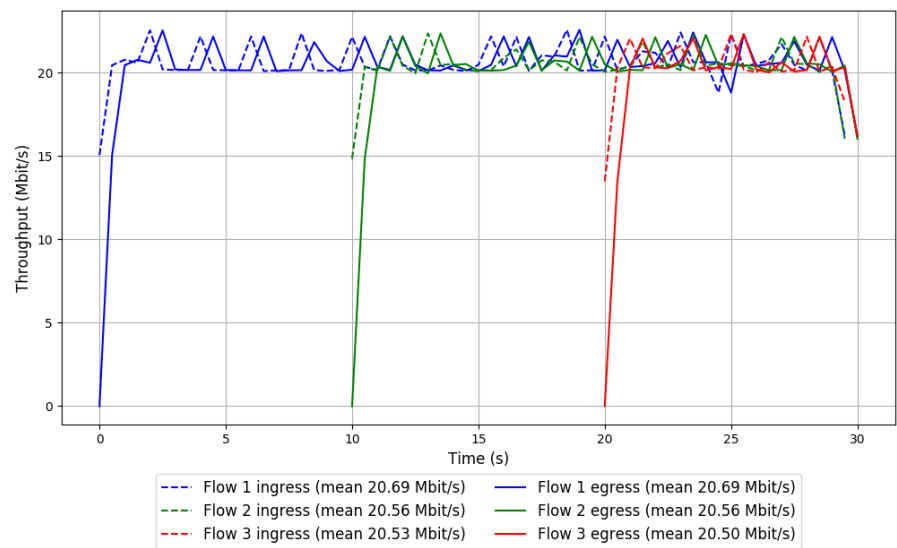


Run 6: Statistics of Sprout

Start at: 2018-05-25 14:38:06
End at: 2018-05-25 14:38:36
Local clock offset: 0.058 ms
Remote clock offset: -0.181 ms

```
# Below is generated by plot.py at 2018-05-25 18:10:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.06 Mbit/s
95th percentile per-packet one-way delay: 1.236 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 20.69 Mbit/s
95th percentile per-packet one-way delay: 1.231 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.56 Mbit/s
95th percentile per-packet one-way delay: 1.237 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.50 Mbit/s
95th percentile per-packet one-way delay: 1.245 ms
Loss rate: 0.51%
```

Run 6: Report of Sprout — Data Link

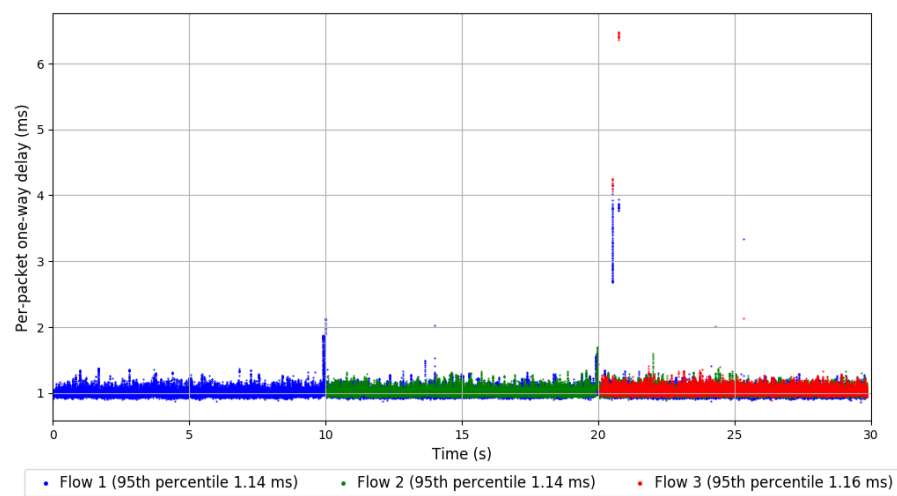
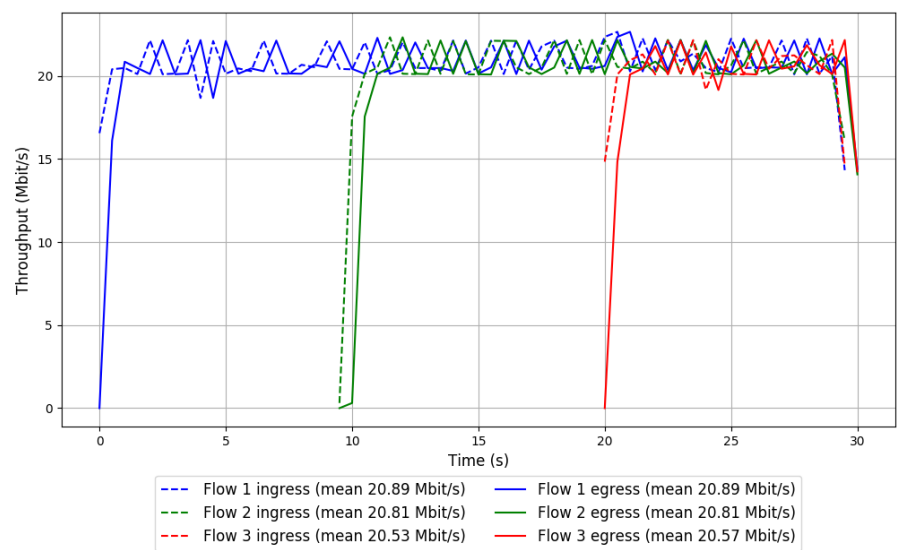


Run 7: Statistics of Sprout

Start at: 2018-05-25 15:03:47
End at: 2018-05-25 15:04:17
Local clock offset: -0.061 ms
Remote clock offset: -0.306 ms

Below is generated by plot.py at 2018-05-25 18:10:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.50 Mbit/s
95th percentile per-packet one-way delay: 1.142 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 20.89 Mbit/s
95th percentile per-packet one-way delay: 1.136 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.81 Mbit/s
95th percentile per-packet one-way delay: 1.141 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 20.57 Mbit/s
95th percentile per-packet one-way delay: 1.155 ms
Loss rate: 0.08%

Run 7: Report of Sprout — Data Link

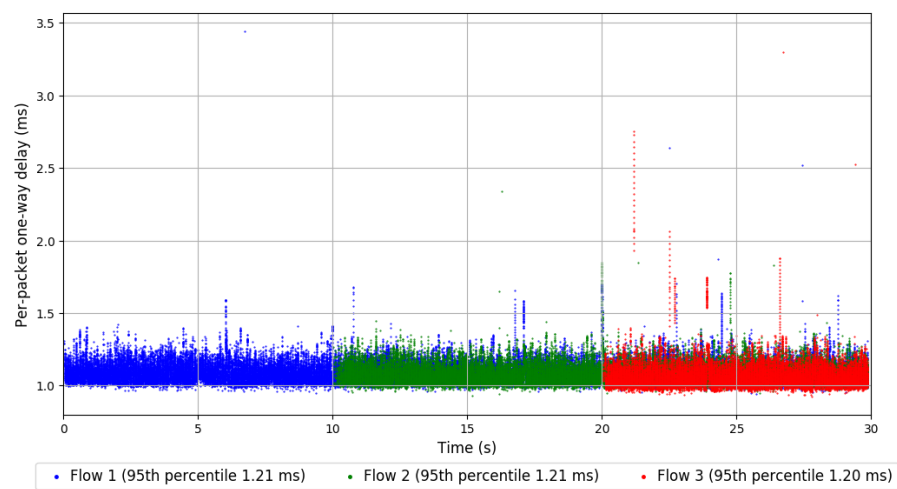
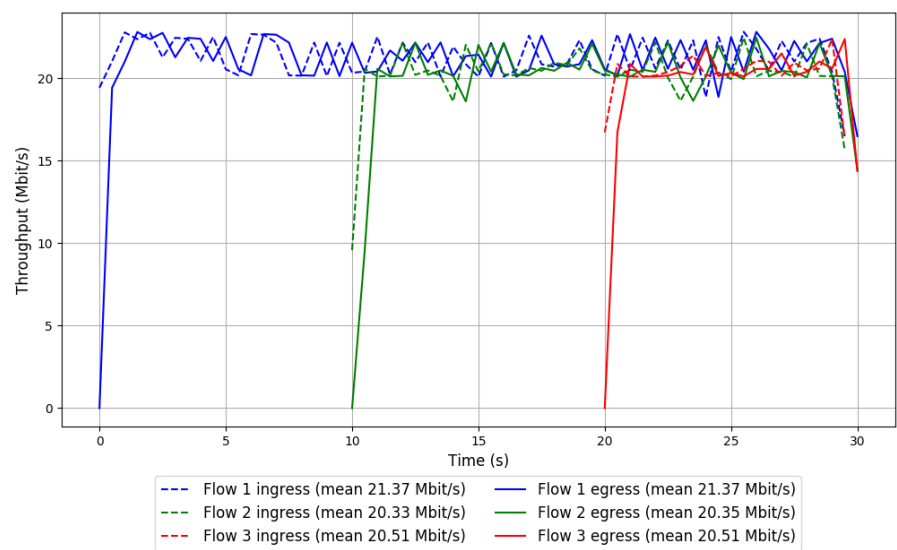


Run 8: Statistics of Sprout

Start at: 2018-05-25 15:29:10
End at: 2018-05-25 15:29:40
Local clock offset: 0.046 ms
Remote clock offset: -0.338 ms

```
# Below is generated by plot.py at 2018-05-25 18:10:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.62 Mbit/s
95th percentile per-packet one-way delay: 1.209 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 21.37 Mbit/s
95th percentile per-packet one-way delay: 1.213 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.35 Mbit/s
95th percentile per-packet one-way delay: 1.205 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 20.51 Mbit/s
95th percentile per-packet one-way delay: 1.202 ms
Loss rate: 0.50%
```

Run 8: Report of Sprout — Data Link

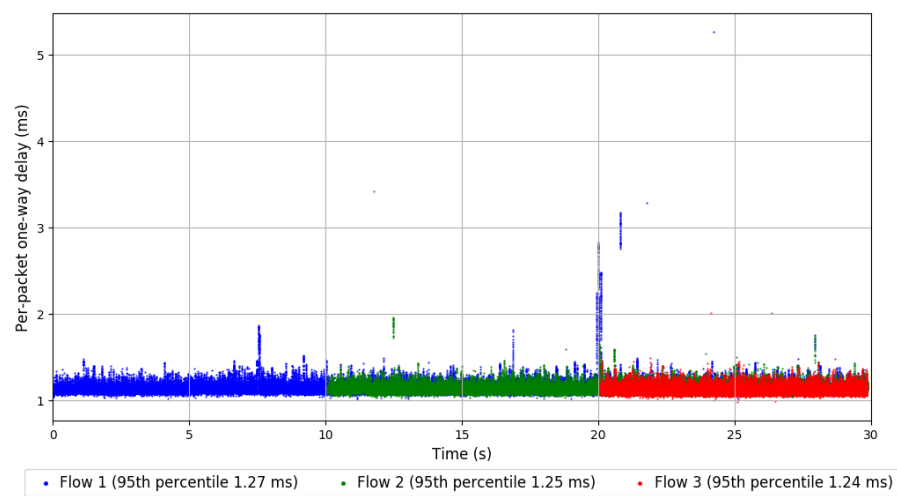
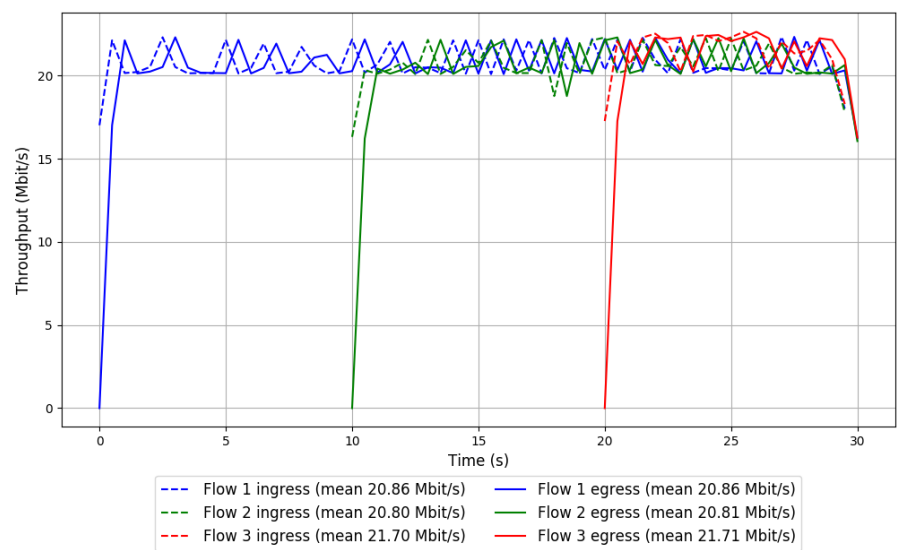


Run 9: Statistics of Sprout

Start at: 2018-05-25 15:54:39
End at: 2018-05-25 15:55:09
Local clock offset: 0.251 ms
Remote clock offset: -0.252 ms

Below is generated by plot.py at 2018-05-25 18:10:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.79 Mbit/s
95th percentile per-packet one-way delay: 1.260 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 20.86 Mbit/s
95th percentile per-packet one-way delay: 1.272 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 20.81 Mbit/s
95th percentile per-packet one-way delay: 1.253 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 21.71 Mbit/s
95th percentile per-packet one-way delay: 1.240 ms
Loss rate: 0.47%

Run 9: Report of Sprout — Data Link

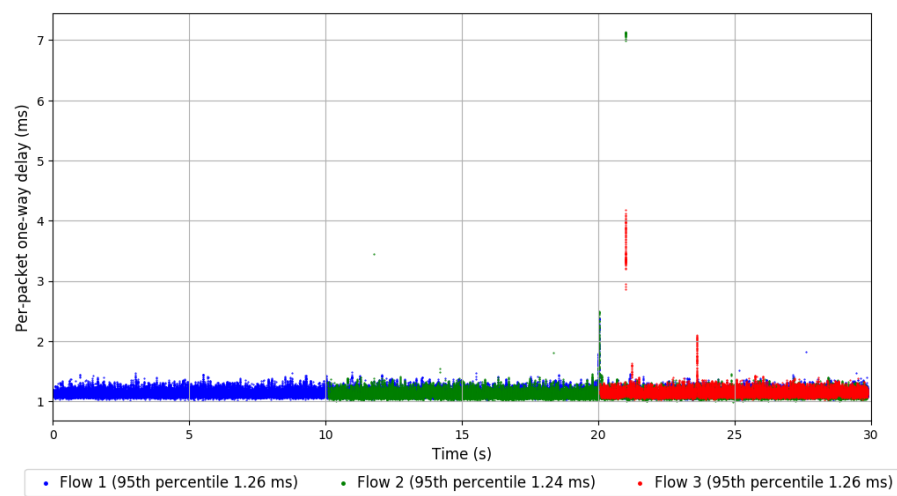
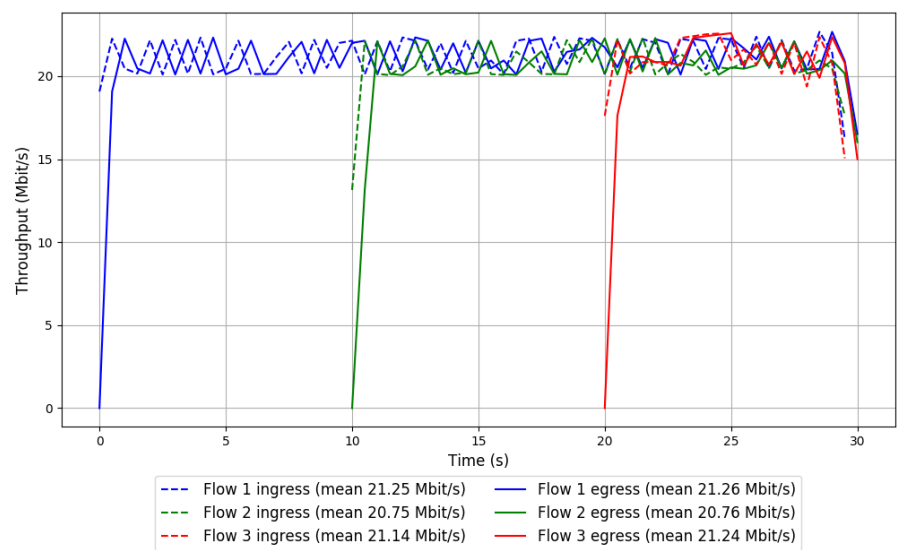


Run 10: Statistics of Sprout

Start at: 2018-05-25 16:19:49
End at: 2018-05-25 16:20:19
Local clock offset: 0.094 ms
Remote clock offset: -0.146 ms

Below is generated by plot.py at 2018-05-25 18:10:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.99 Mbit/s
95th percentile per-packet one-way delay: 1.258 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 21.26 Mbit/s
95th percentile per-packet one-way delay: 1.263 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 20.76 Mbit/s
95th percentile per-packet one-way delay: 1.243 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 21.24 Mbit/s
95th percentile per-packet one-way delay: 1.265 ms
Loss rate: 0.01%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-05-25 12:13:04

End at: 2018-05-25 12:13:34

Local clock offset: 0.23 ms

Remote clock offset: 0.178 ms

Below is generated by plot.py at 2018-05-25 18:18:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 396.77 Mbit/s

95th percentile per-packet one-way delay: 1.175 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 221.26 Mbit/s

95th percentile per-packet one-way delay: 1.162 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 200.52 Mbit/s

95th percentile per-packet one-way delay: 1.169 ms

Loss rate: 0.10%

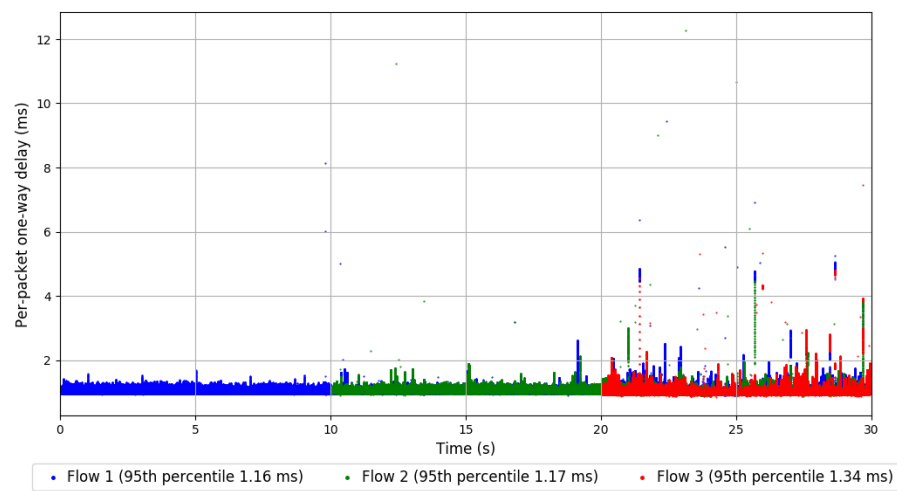
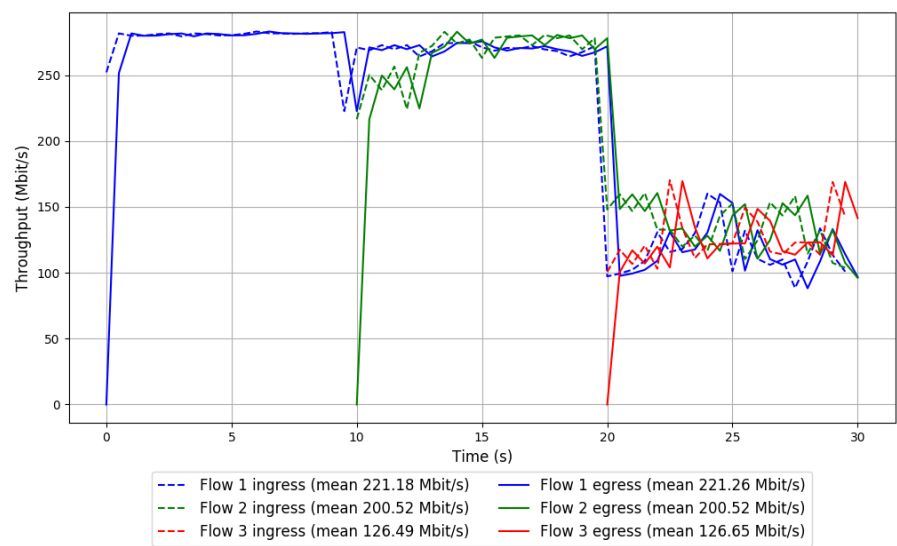
-- Flow 3:

Average throughput: 126.65 Mbit/s

95th percentile per-packet one-way delay: 1.339 ms

Loss rate: 0.07%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-05-25 12:38:31

End at: 2018-05-25 12:39:01

Local clock offset: 0.211 ms

Remote clock offset: 0.273 ms

Below is generated by plot.py at 2018-05-25 18:18:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 388.55 Mbit/s

95th percentile per-packet one-way delay: 1.381 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 223.67 Mbit/s

95th percentile per-packet one-way delay: 1.239 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 196.08 Mbit/s

95th percentile per-packet one-way delay: 1.283 ms

Loss rate: 0.07%

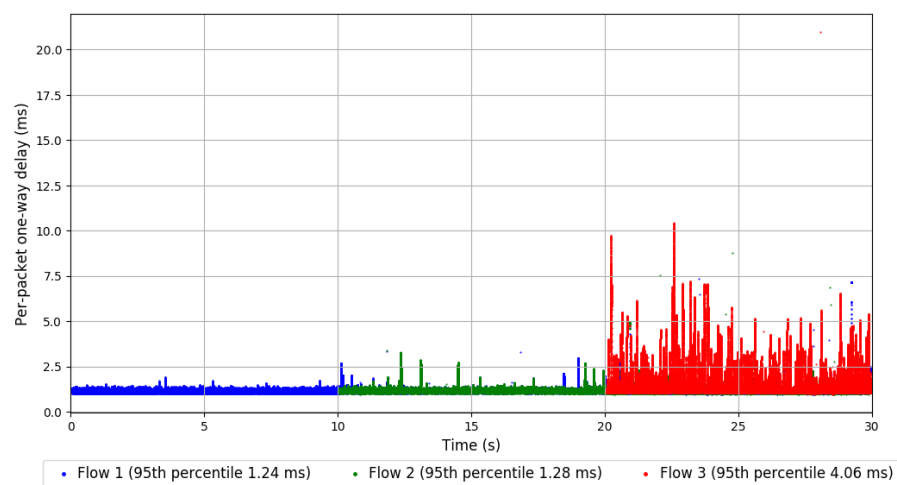
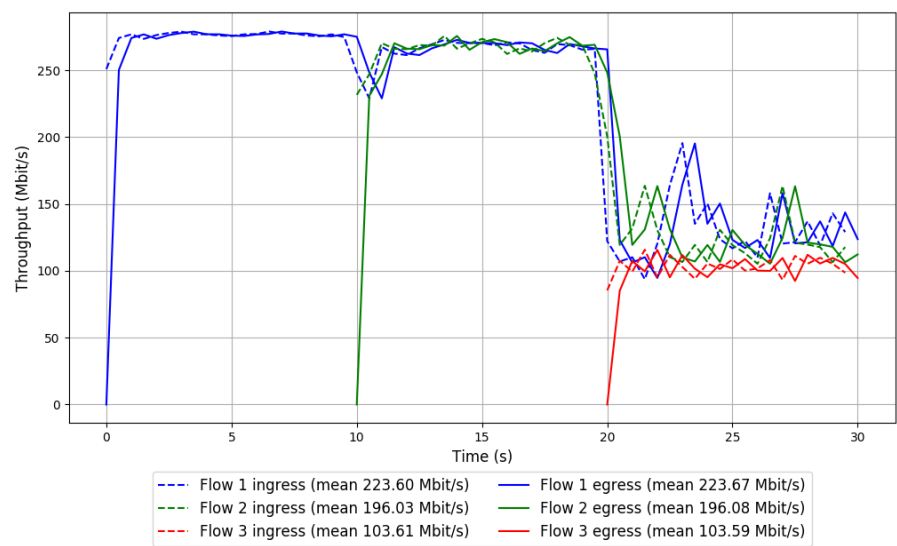
-- Flow 3:

Average throughput: 103.59 Mbit/s

95th percentile per-packet one-way delay: 4.060 ms

Loss rate: 0.21%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-05-25 13:04:15

End at: 2018-05-25 13:04:45

Local clock offset: 0.182 ms

Remote clock offset: 0.131 ms

Below is generated by plot.py at 2018-05-25 18:18:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 387.08 Mbit/s

95th percentile per-packet one-way delay: 1.140 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 225.78 Mbit/s

95th percentile per-packet one-way delay: 1.023 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 190.74 Mbit/s

95th percentile per-packet one-way delay: 1.135 ms

Loss rate: 0.06%

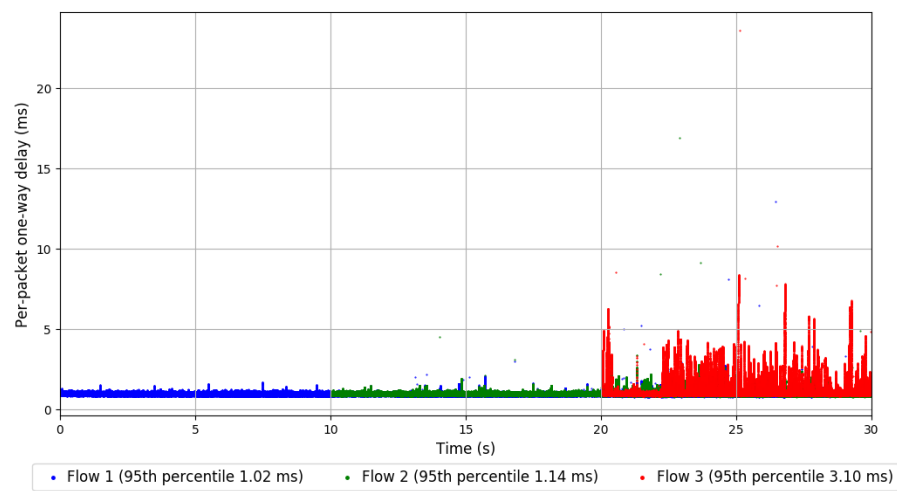
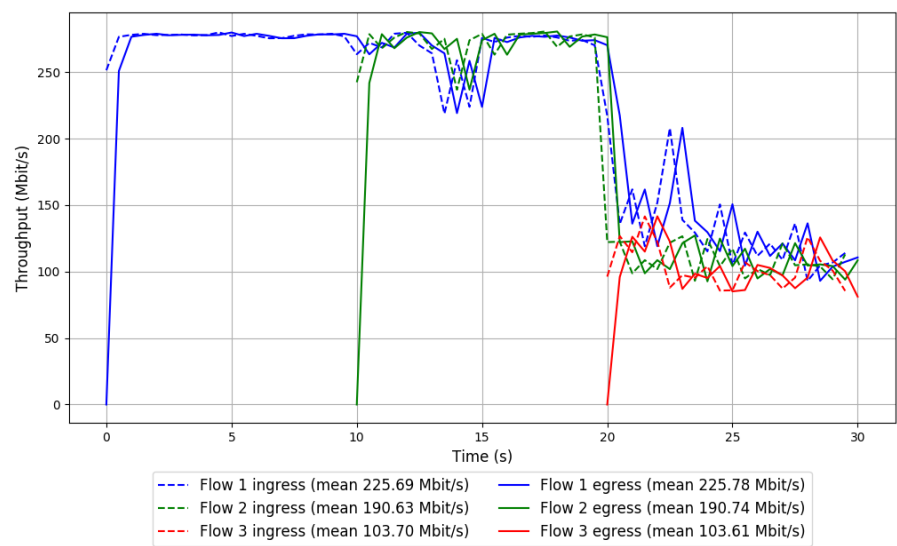
-- Flow 3:

Average throughput: 103.61 Mbit/s

95th percentile per-packet one-way delay: 3.102 ms

Loss rate: 0.24%

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

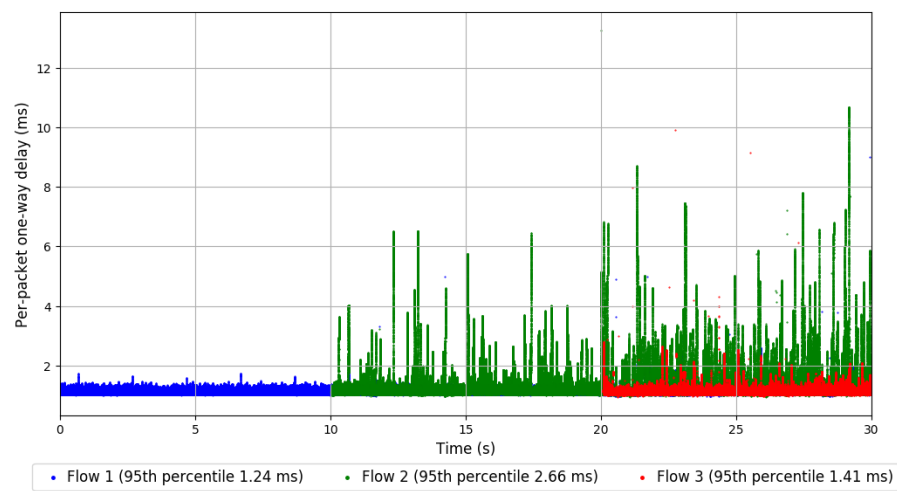
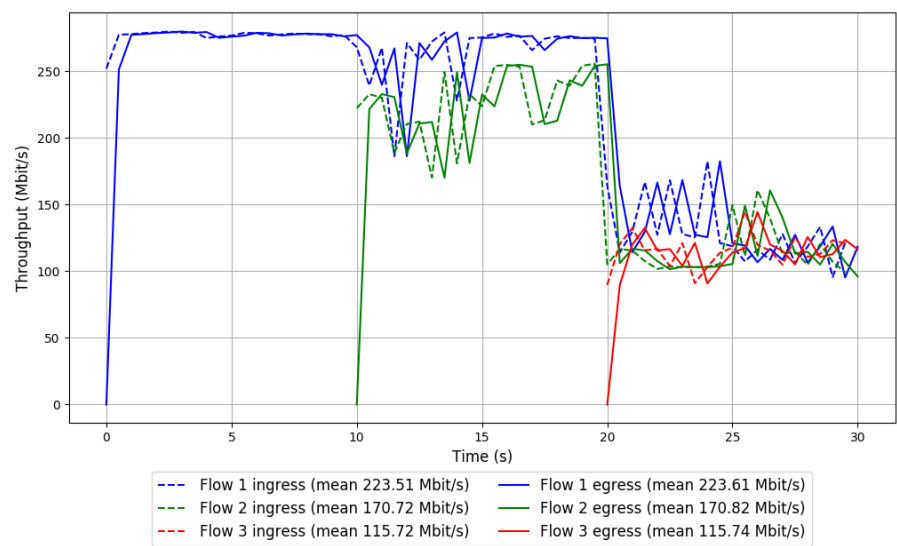


Run 4: Statistics of TaoVA-100x

Start at: 2018-05-25 13:29:42
End at: 2018-05-25 13:30:12
Local clock offset: 0.377 ms
Remote clock offset: -0.195 ms

Below is generated by plot.py at 2018-05-25 18:18:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 375.68 Mbit/s
95th percentile per-packet one-way delay: 1.574 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 223.61 Mbit/s
95th percentile per-packet one-way delay: 1.235 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 170.82 Mbit/s
95th percentile per-packet one-way delay: 2.659 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 115.74 Mbit/s
95th percentile per-packet one-way delay: 1.405 ms
Loss rate: 0.19%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-05-25 13:55:15

End at: 2018-05-25 13:55:45

Local clock offset: 0.014 ms

Remote clock offset: -0.43 ms

Below is generated by plot.py at 2018-05-25 18:19:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 397.06 Mbit/s

95th percentile per-packet one-way delay: 1.156 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 227.41 Mbit/s

95th percentile per-packet one-way delay: 1.121 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 195.78 Mbit/s

95th percentile per-packet one-way delay: 1.161 ms

Loss rate: 0.05%

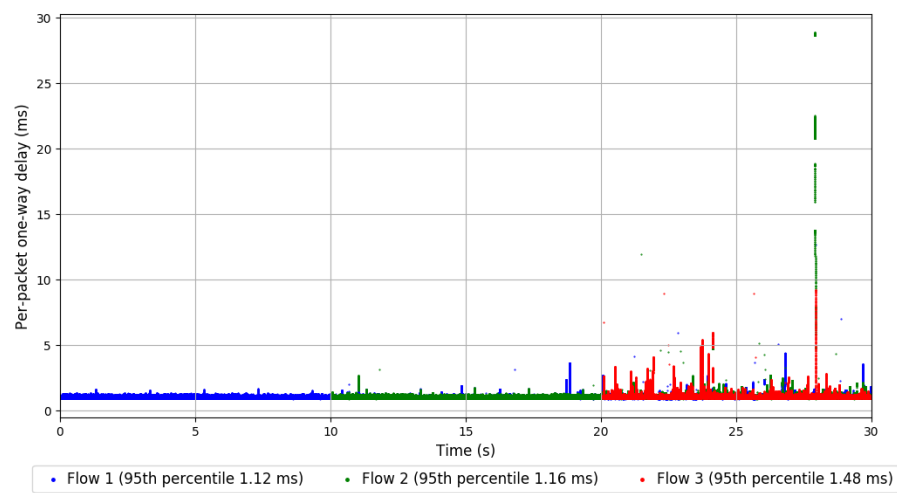
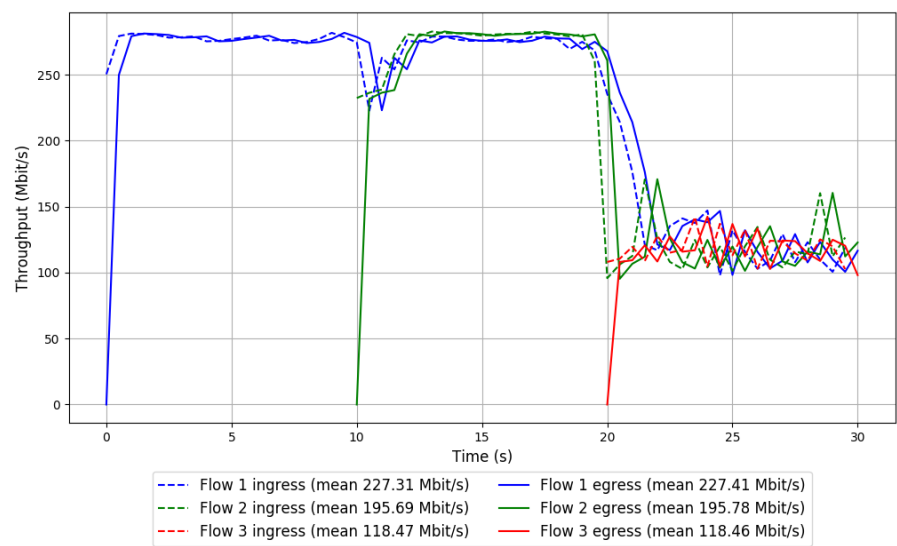
-- Flow 3:

Average throughput: 118.46 Mbit/s

95th percentile per-packet one-way delay: 1.475 ms

Loss rate: 0.19%

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

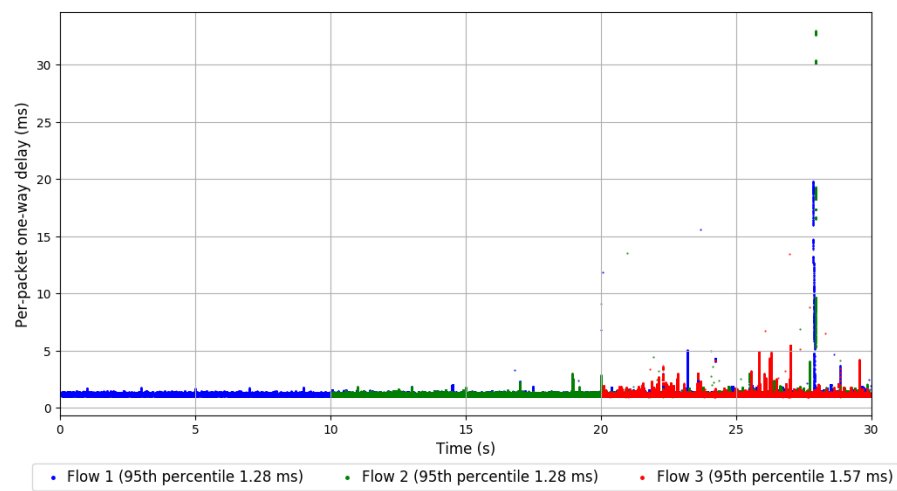
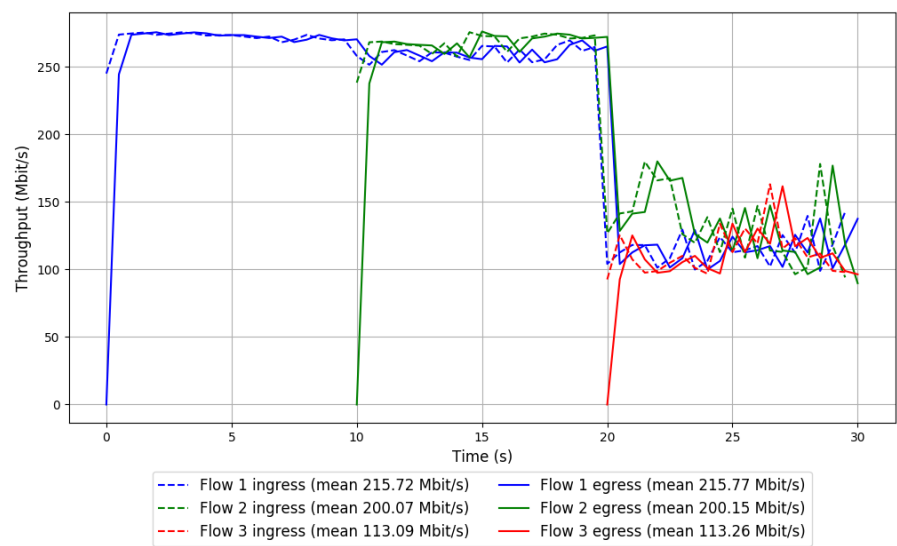


Run 6: Statistics of TaoVA-100x

Start at: 2018-05-25 14:20:36
End at: 2018-05-25 14:21:06
Local clock offset: 0.074 ms
Remote clock offset: -0.102 ms

Below is generated by plot.py at 2018-05-25 18:19:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 386.56 Mbit/s
95th percentile per-packet one-way delay: 1.295 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 215.77 Mbit/s
95th percentile per-packet one-way delay: 1.284 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 200.15 Mbit/s
95th percentile per-packet one-way delay: 1.279 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 113.26 Mbit/s
95th percentile per-packet one-way delay: 1.572 ms
Loss rate: 0.08%

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

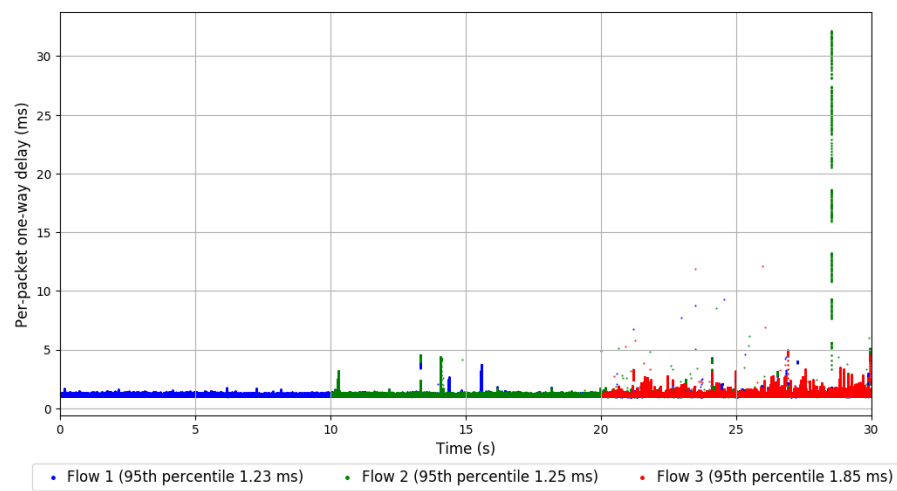
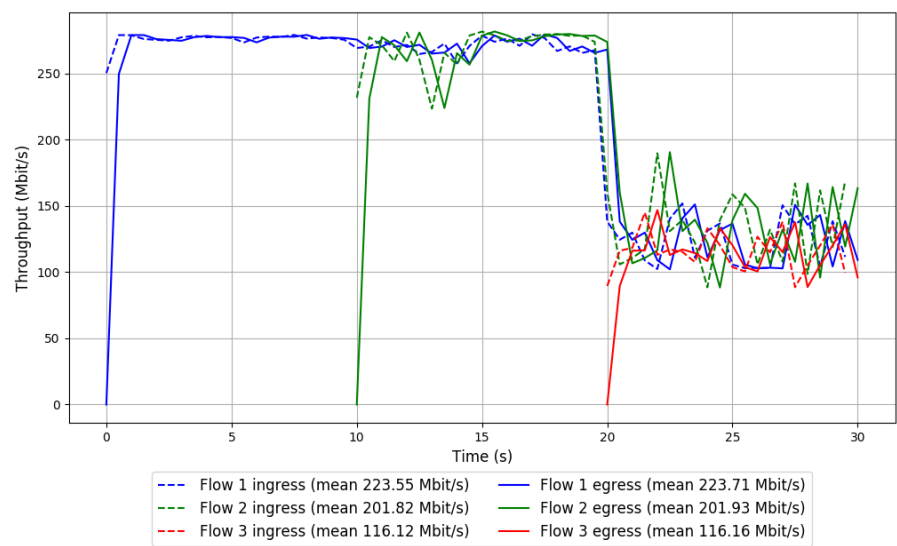


Run 7: Statistics of TaoVA-100x

Start at: 2018-05-25 14:45:57
End at: 2018-05-25 14:46:27
Local clock offset: 0.036 ms
Remote clock offset: -0.265 ms

Below is generated by plot.py at 2018-05-25 18:19:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 396.51 Mbit/s
95th percentile per-packet one-way delay: 1.277 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 223.71 Mbit/s
95th percentile per-packet one-way delay: 1.230 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 201.93 Mbit/s
95th percentile per-packet one-way delay: 1.254 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 116.16 Mbit/s
95th percentile per-packet one-way delay: 1.853 ms
Loss rate: 0.16%

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

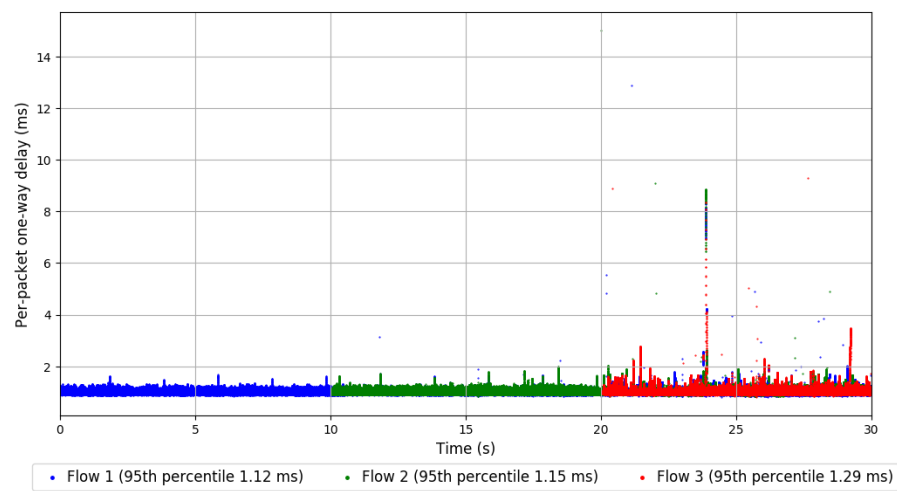
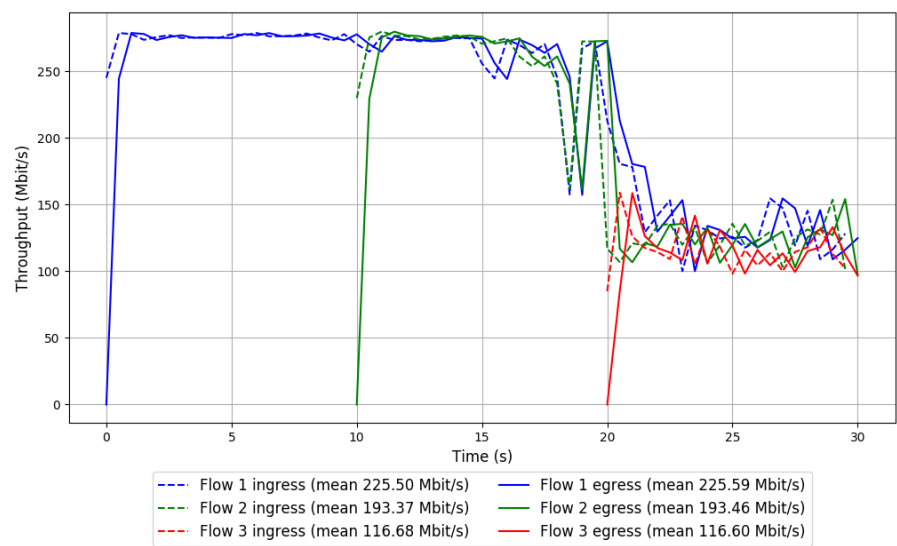


Run 8: Statistics of TaoVA-100x

Start at: 2018-05-25 15:11:25
End at: 2018-05-25 15:11:55
Local clock offset: -0.035 ms
Remote clock offset: -0.313 ms

Below is generated by plot.py at 2018-05-25 18:19:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 392.98 Mbit/s
95th percentile per-packet one-way delay: 1.144 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 225.59 Mbit/s
95th percentile per-packet one-way delay: 1.120 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 193.46 Mbit/s
95th percentile per-packet one-way delay: 1.151 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 116.60 Mbit/s
95th percentile per-packet one-way delay: 1.290 ms
Loss rate: 0.26%

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

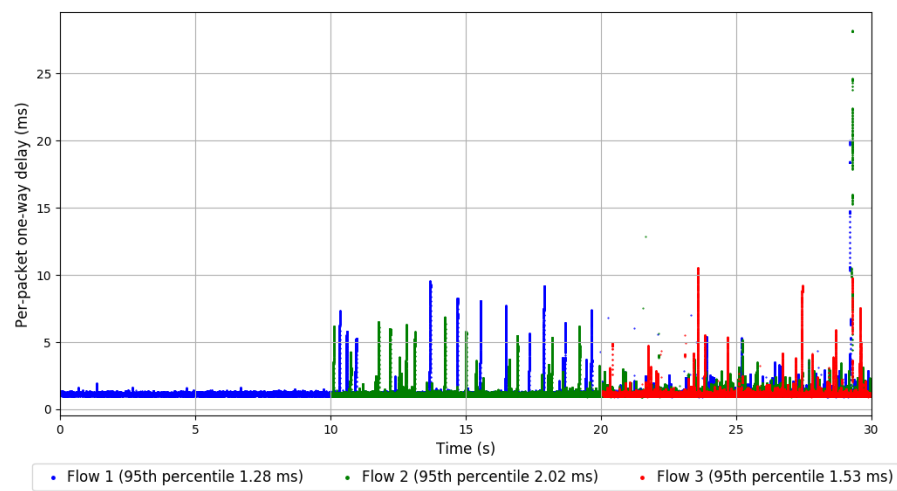
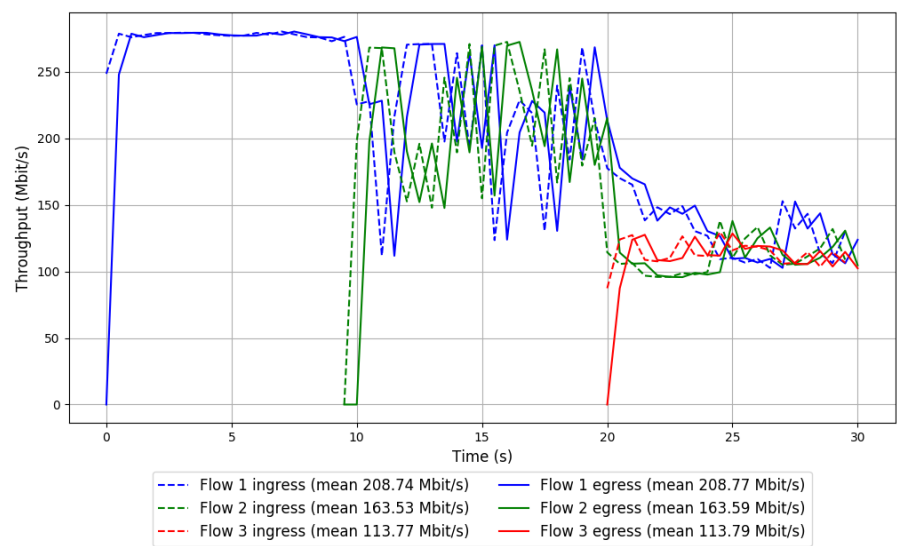


Run 9: Statistics of TaoVA-100x

Start at: 2018-05-25 15:36:58
End at: 2018-05-25 15:37:28
Local clock offset: 0.18 ms
Remote clock offset: -0.321 ms

Below is generated by plot.py at 2018-05-25 18:27:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 355.48 Mbit/s
95th percentile per-packet one-way delay: 1.522 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 208.77 Mbit/s
95th percentile per-packet one-way delay: 1.284 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 163.59 Mbit/s
95th percentile per-packet one-way delay: 2.024 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 113.79 Mbit/s
95th percentile per-packet one-way delay: 1.532 ms
Loss rate: 0.18%

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

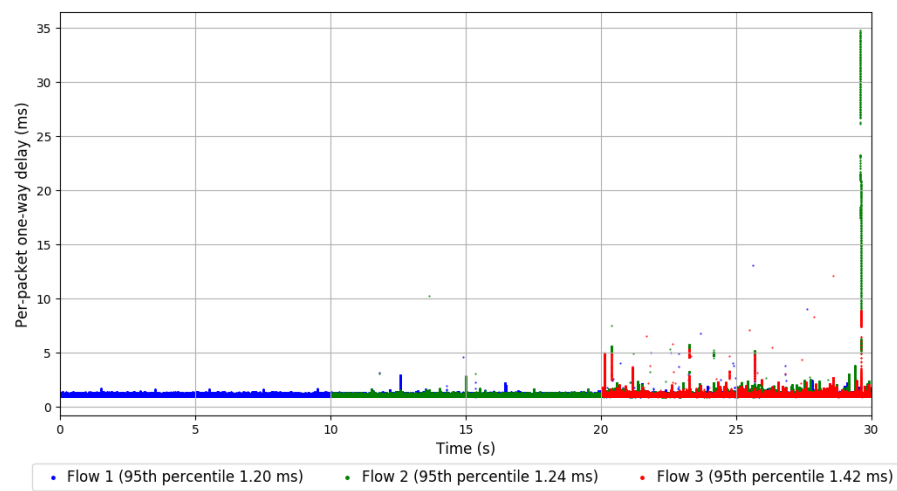
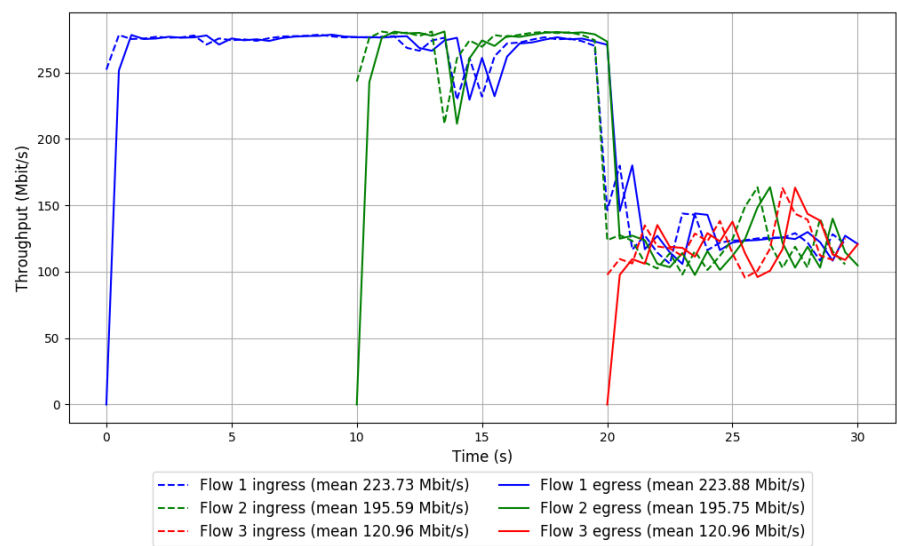


Run 10: Statistics of TaoVA-100x

Start at: 2018-05-25 16:02:11
End at: 2018-05-25 16:02:41
Local clock offset: 0.203 ms
Remote clock offset: -0.204 ms

Below is generated by plot.py at 2018-05-25 18:27:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 394.25 Mbit/s
95th percentile per-packet one-way delay: 1.221 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 223.88 Mbit/s
95th percentile per-packet one-way delay: 1.197 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 195.75 Mbit/s
95th percentile per-packet one-way delay: 1.238 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 120.96 Mbit/s
95th percentile per-packet one-way delay: 1.421 ms
Loss rate: 0.19%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-05-25 12:16:20

End at: 2018-05-25 12:16:50

Local clock offset: 0.282 ms

Remote clock offset: 0.188 ms

Below is generated by plot.py at 2018-05-25 18:27:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 618.30 Mbit/s

95th percentile per-packet one-way delay: 3.133 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 269.99 Mbit/s

95th percentile per-packet one-way delay: 2.556 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 370.26 Mbit/s

95th percentile per-packet one-way delay: 3.314 ms

Loss rate: 0.09%

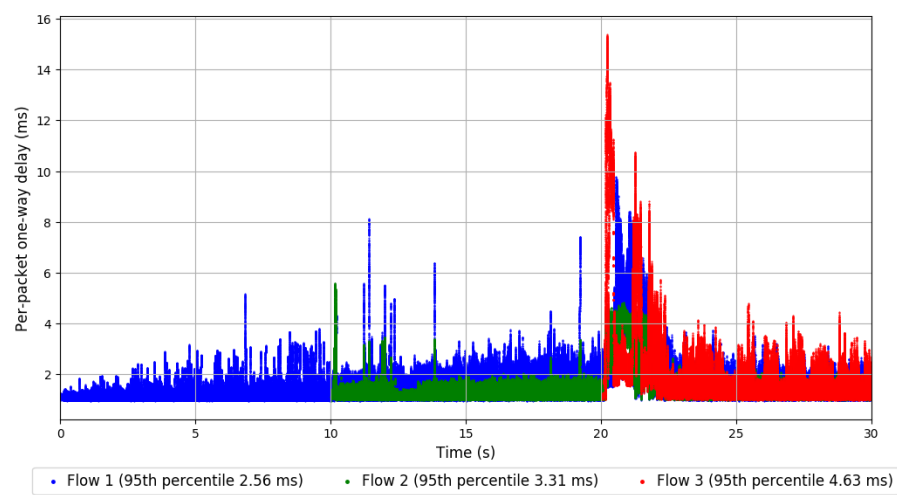
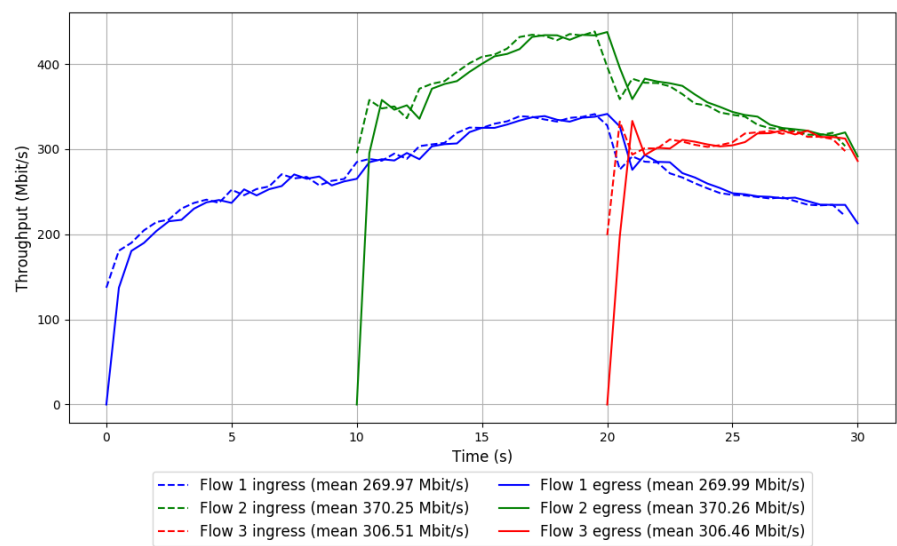
-- Flow 3:

Average throughput: 306.46 Mbit/s

95th percentile per-packet one-way delay: 4.632 ms

Loss rate: 0.21%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-05-25 12:41:49

End at: 2018-05-25 12:42:19

Local clock offset: 0.098 ms

Remote clock offset: 0.369 ms

Below is generated by plot.py at 2018-05-25 18:27:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 462.15 Mbit/s

95th percentile per-packet one-way delay: 5.346 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 195.10 Mbit/s

95th percentile per-packet one-way delay: 6.728 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 352.77 Mbit/s

95th percentile per-packet one-way delay: 1.282 ms

Loss rate: 0.04%

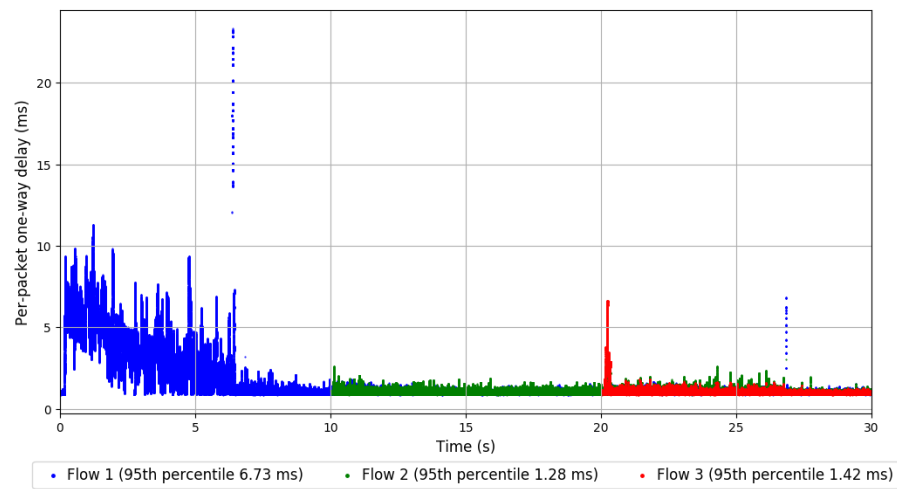
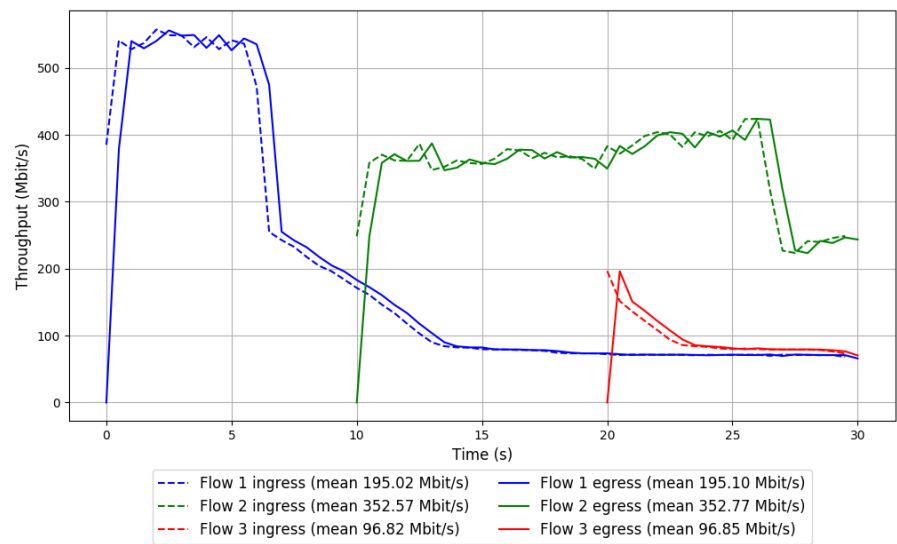
-- Flow 3:

Average throughput: 96.85 Mbit/s

95th percentile per-packet one-way delay: 1.419 ms

Loss rate: 0.15%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-05-25 13:07:33

End at: 2018-05-25 13:08:03

Local clock offset: 0.238 ms

Remote clock offset: 0.054 ms

Below is generated by plot.py at 2018-05-25 18:27:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 572.66 Mbit/s

95th percentile per-packet one-way delay: 1.561 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 367.54 Mbit/s

95th percentile per-packet one-way delay: 1.454 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 186.24 Mbit/s

95th percentile per-packet one-way delay: 1.534 ms

Loss rate: 0.08%

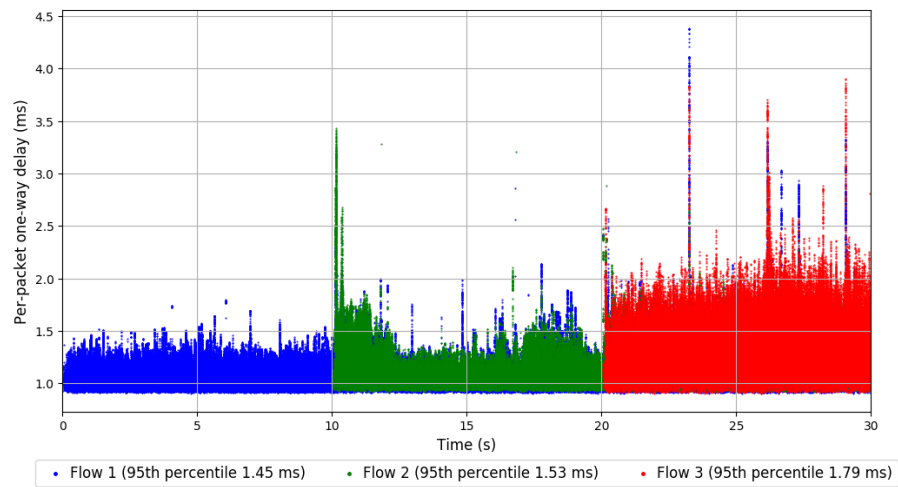
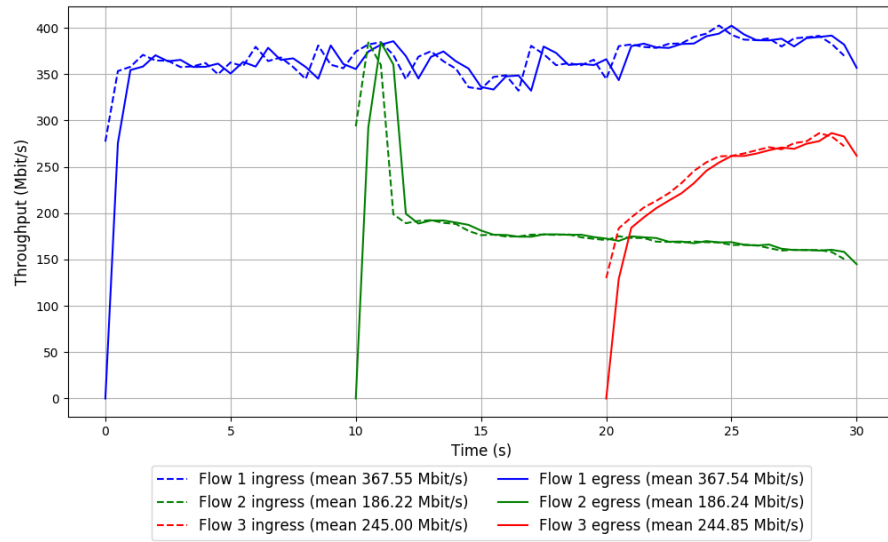
-- Flow 3:

Average throughput: 244.85 Mbit/s

95th percentile per-packet one-way delay: 1.793 ms

Loss rate: 0.23%

Run 3: Report of TCP Vegas — Data Link

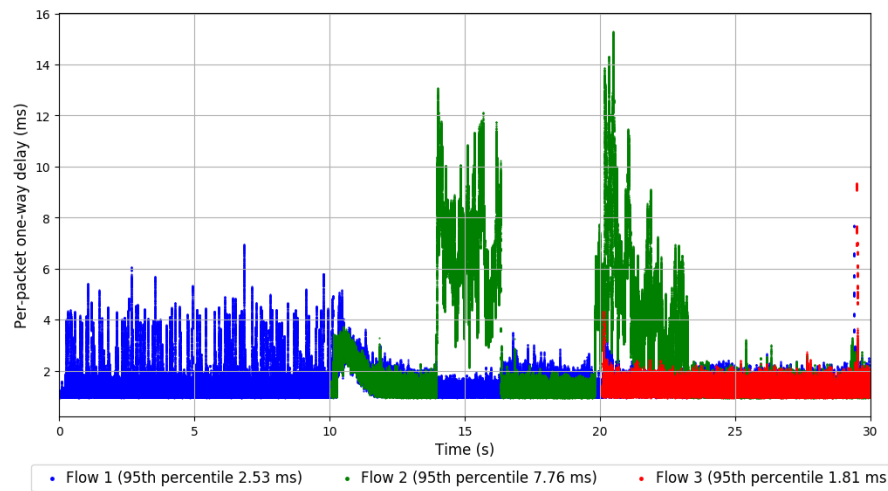
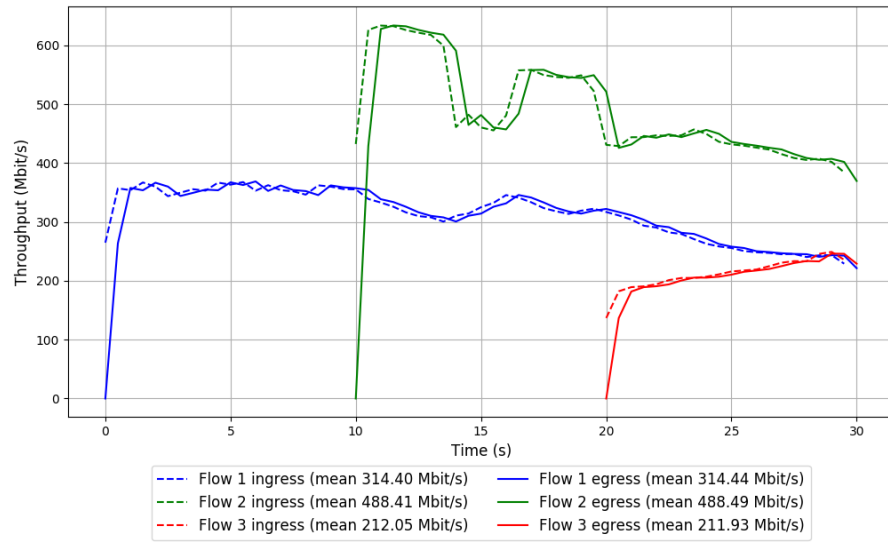


Run 4: Statistics of TCP Vegas

Start at: 2018-05-25 13:32:59
End at: 2018-05-25 13:33:29
Local clock offset: 0.226 ms
Remote clock offset: -0.256 ms

Below is generated by plot.py at 2018-05-25 18:27:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 710.23 Mbit/s
95th percentile per-packet one-way delay: 5.856 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 314.44 Mbit/s
95th percentile per-packet one-way delay: 2.526 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 488.49 Mbit/s
95th percentile per-packet one-way delay: 7.763 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 211.93 Mbit/s
95th percentile per-packet one-way delay: 1.814 ms
Loss rate: 0.23%

Run 4: Report of TCP Vegas — Data Link

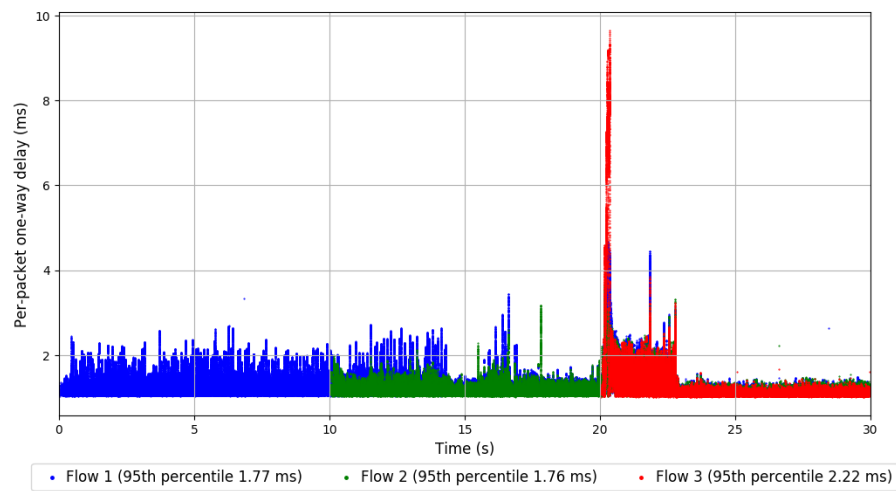
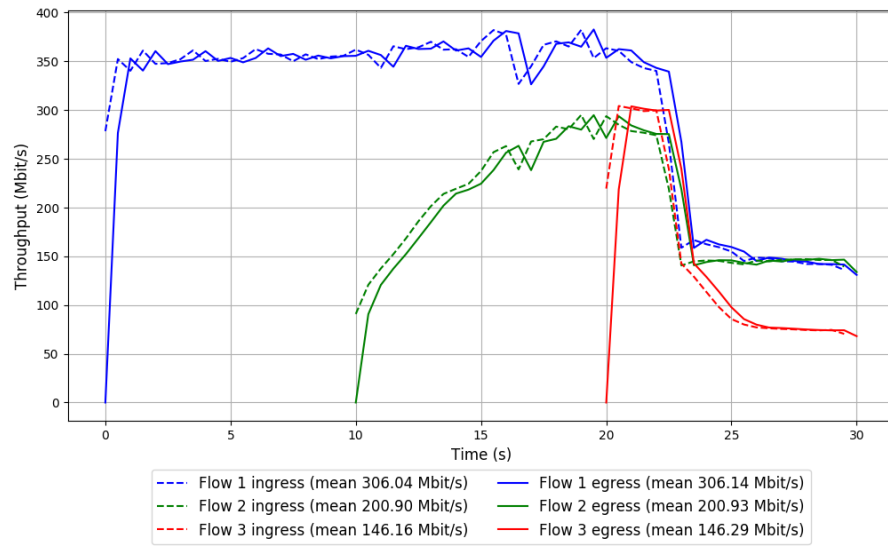


Run 5: Statistics of TCP Vegas

Start at: 2018-05-25 13:58:29
End at: 2018-05-25 13:58:59
Local clock offset: 0.088 ms
Remote clock offset: -0.324 ms

Below is generated by plot.py at 2018-05-25 18:27:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 488.47 Mbit/s
95th percentile per-packet one-way delay: 1.807 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 306.14 Mbit/s
95th percentile per-packet one-way delay: 1.774 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 200.93 Mbit/s
95th percentile per-packet one-way delay: 1.765 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 146.29 Mbit/s
95th percentile per-packet one-way delay: 2.216 ms
Loss rate: 0.10%

Run 5: Report of TCP Vegas — Data Link

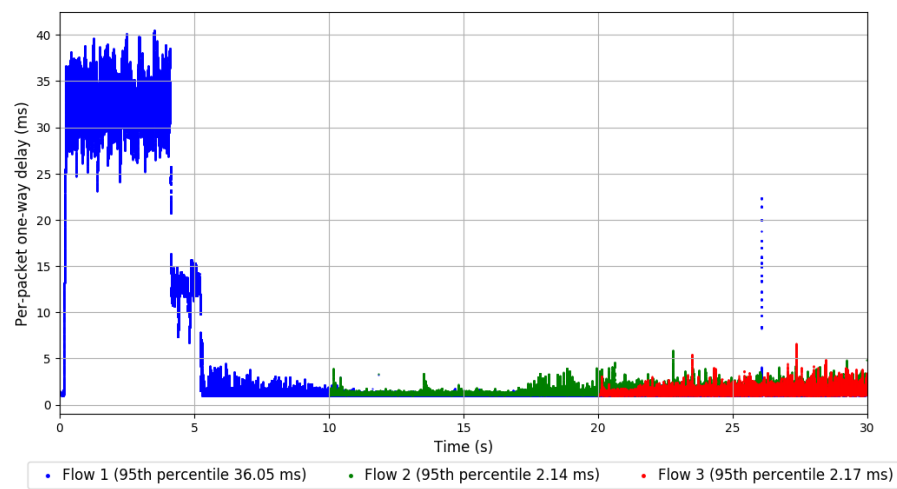
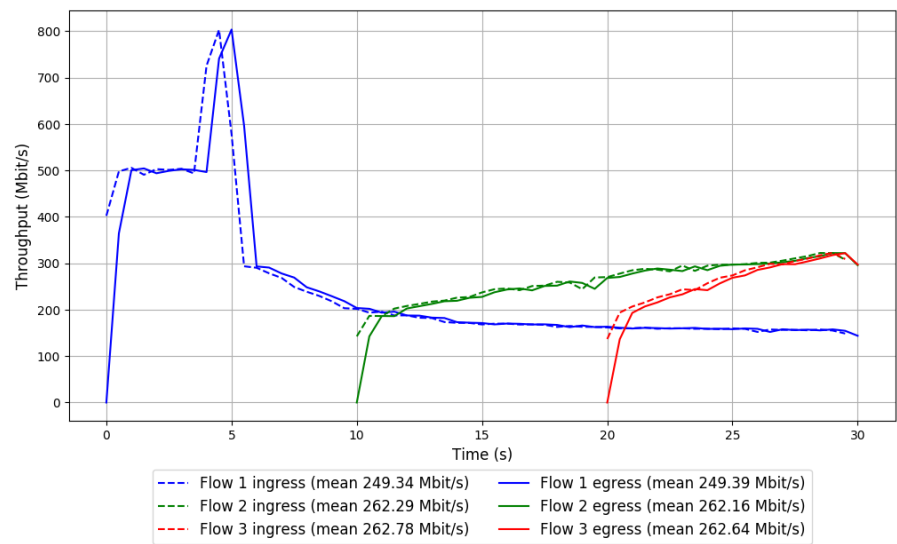


Run 6: Statistics of TCP Vegas

Start at: 2018-05-25 14:23:49
End at: 2018-05-25 14:24:19
Local clock offset: 0.037 ms
Remote clock offset: -0.091 ms

Below is generated by plot.py at 2018-05-25 18:27:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 511.15 Mbit/s
95th percentile per-packet one-way delay: 34.692 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 249.39 Mbit/s
95th percentile per-packet one-way delay: 36.052 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 262.16 Mbit/s
95th percentile per-packet one-way delay: 2.144 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 262.64 Mbit/s
95th percentile per-packet one-way delay: 2.175 ms
Loss rate: 0.25%

Run 6: Report of TCP Vegas — Data Link

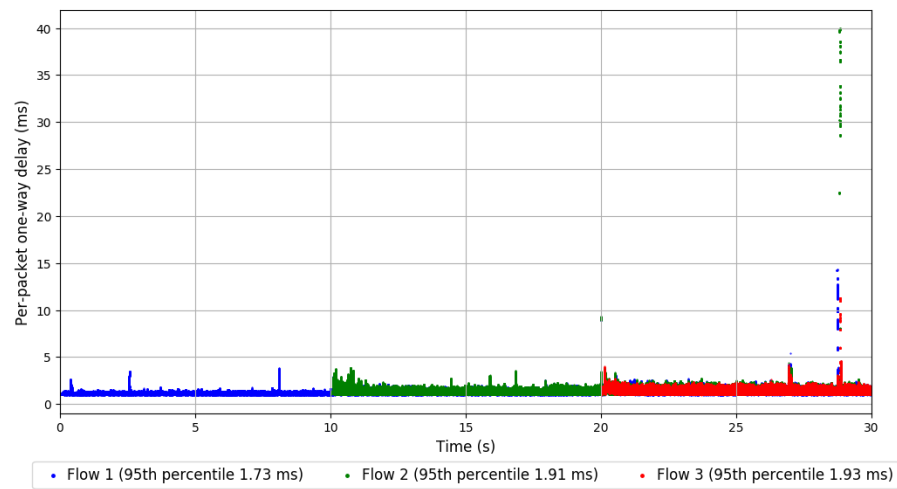
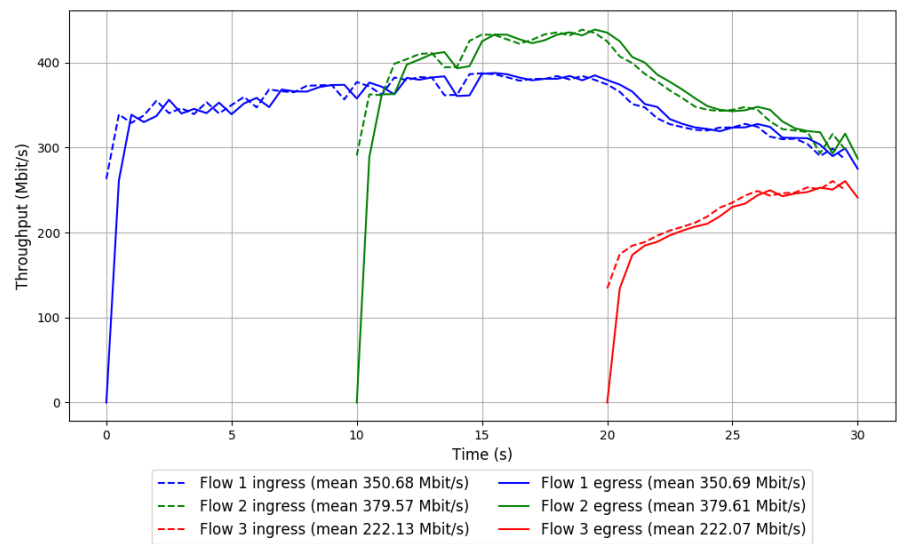


Run 7: Statistics of TCP Vegas

Start at: 2018-05-25 14:49:14
End at: 2018-05-25 14:49:44
Local clock offset: 0.029 ms
Remote clock offset: -0.267 ms

Below is generated by plot.py at 2018-05-25 18:33:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 677.19 Mbit/s
95th percentile per-packet one-way delay: 1.836 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 350.69 Mbit/s
95th percentile per-packet one-way delay: 1.733 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 379.61 Mbit/s
95th percentile per-packet one-way delay: 1.909 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 222.07 Mbit/s
95th percentile per-packet one-way delay: 1.925 ms
Loss rate: 0.23%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-05-25 15:14:40

End at: 2018-05-25 15:15:10

Local clock offset: 0.05 ms

Remote clock offset: -0.38 ms

Below is generated by plot.py at 2018-05-25 18:33:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 604.13 Mbit/s

95th percentile per-packet one-way delay: 1.993 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 322.73 Mbit/s

95th percentile per-packet one-way delay: 3.883 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 250.44 Mbit/s

95th percentile per-packet one-way delay: 1.644 ms

Loss rate: 0.11%

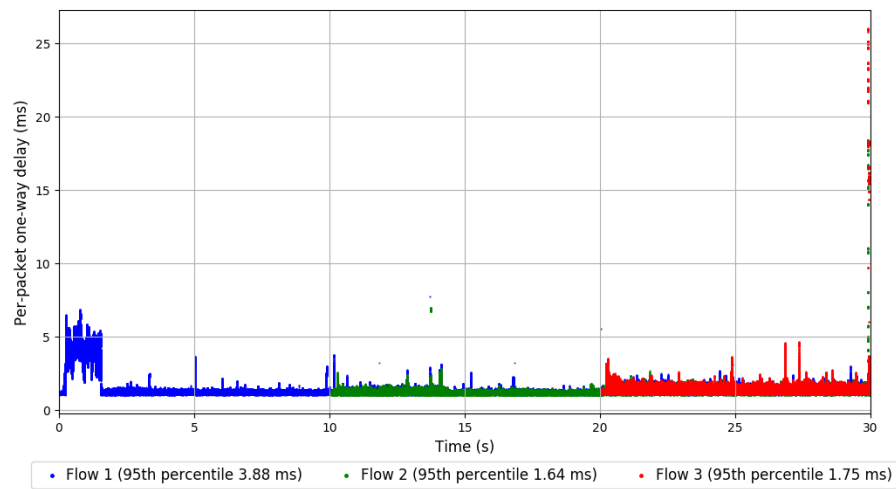
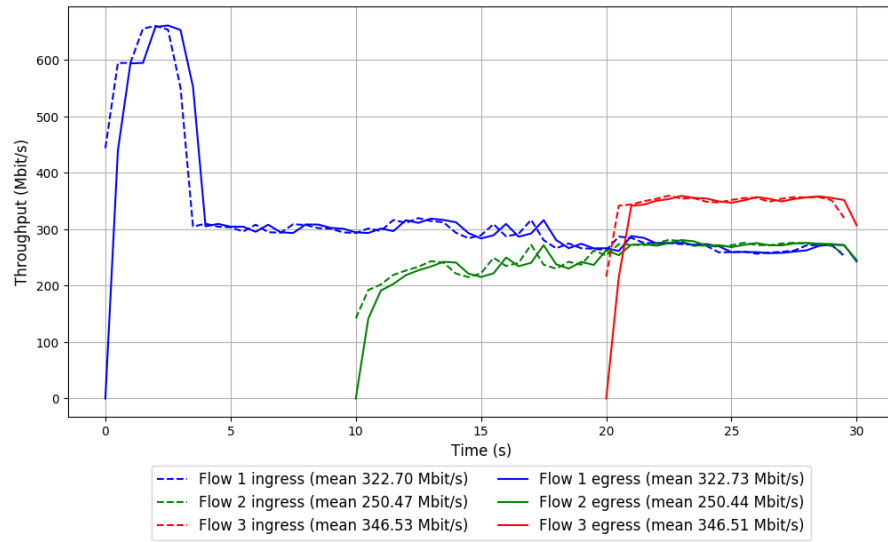
-- Flow 3:

Average throughput: 346.51 Mbit/s

95th percentile per-packet one-way delay: 1.748 ms

Loss rate: 0.21%

Run 8: Report of TCP Vegas — Data Link

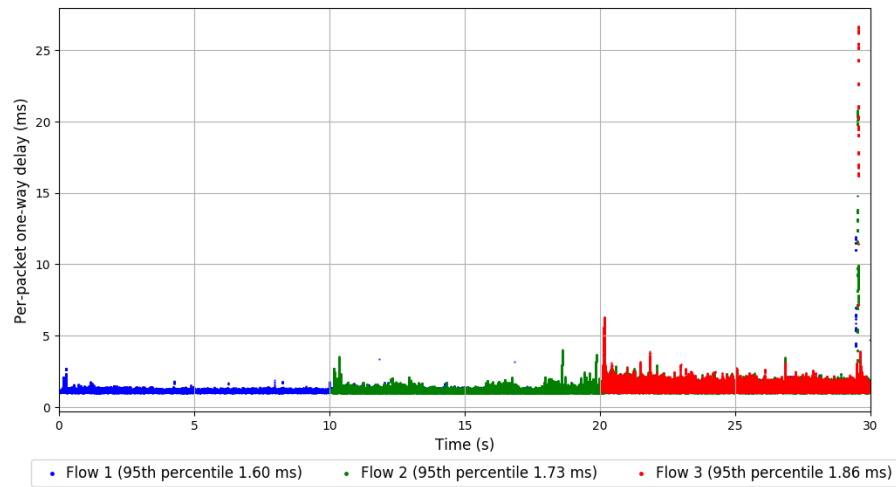
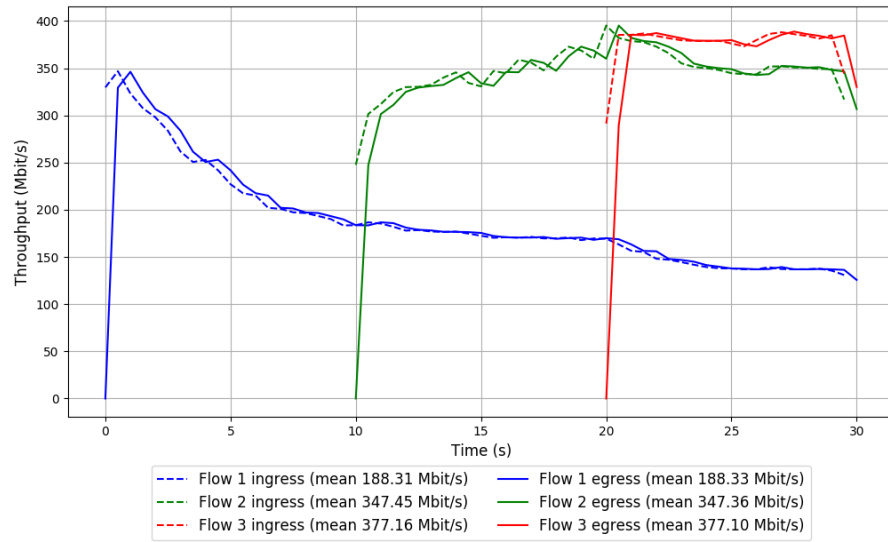


Run 9: Statistics of TCP Vegas

Start at: 2018-05-25 15:40:09
End at: 2018-05-25 15:40:39
Local clock offset: 0.181 ms
Remote clock offset: -0.347 ms

Below is generated by plot.py at 2018-05-25 18:33:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 544.76 Mbit/s
95th percentile per-packet one-way delay: 1.733 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 188.33 Mbit/s
95th percentile per-packet one-way delay: 1.600 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 347.36 Mbit/s
95th percentile per-packet one-way delay: 1.729 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 377.10 Mbit/s
95th percentile per-packet one-way delay: 1.860 ms
Loss rate: 0.20%

Run 9: Report of TCP Vegas — Data Link

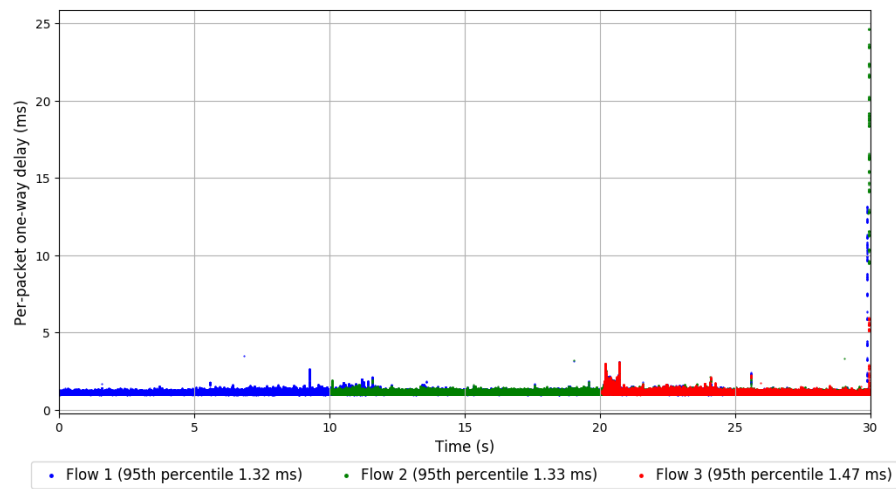
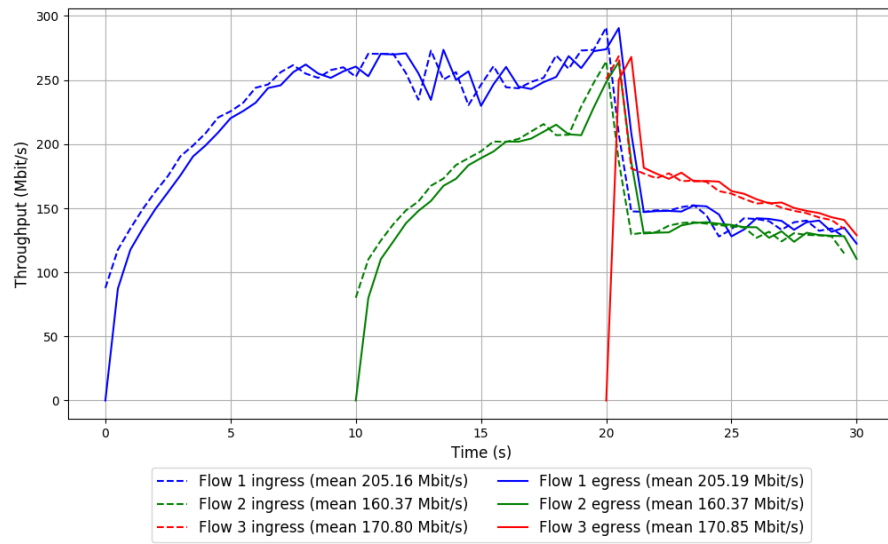


Run 10: Statistics of TCP Vegas

Start at: 2018-05-25 16:05:27
End at: 2018-05-25 16:05:57
Local clock offset: 0.177 ms
Remote clock offset: -0.212 ms

Below is generated by plot.py at 2018-05-25 18:33:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 368.54 Mbit/s
95th percentile per-packet one-way delay: 1.344 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 205.19 Mbit/s
95th percentile per-packet one-way delay: 1.324 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 160.37 Mbit/s
95th percentile per-packet one-way delay: 1.333 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 170.85 Mbit/s
95th percentile per-packet one-way delay: 1.472 ms
Loss rate: 0.17%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-05-25 12:26:00

End at: 2018-05-25 12:26:30

Local clock offset: 0.162 ms

Remote clock offset: 0.158 ms

Below is generated by plot.py at 2018-05-25 18:33:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 340.85 Mbit/s

95th percentile per-packet one-way delay: 3.412 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 202.50 Mbit/s

95th percentile per-packet one-way delay: 3.967 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 155.60 Mbit/s

95th percentile per-packet one-way delay: 2.145 ms

Loss rate: 0.00%

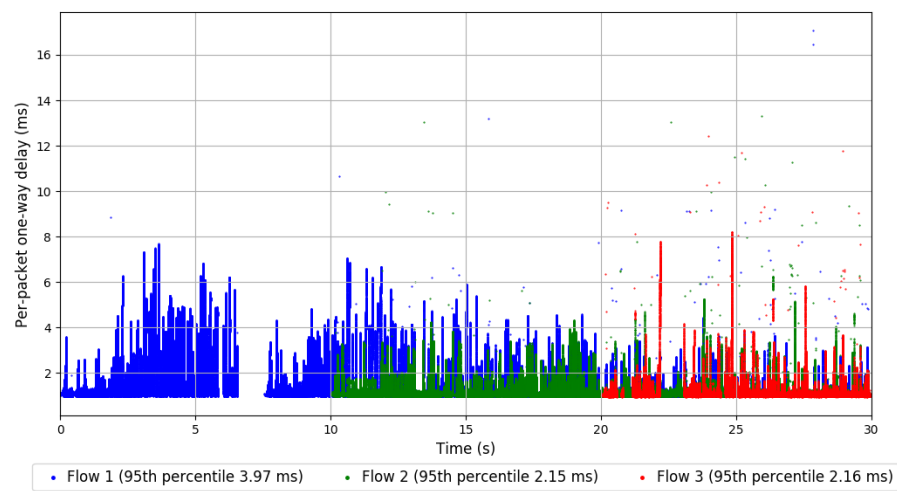
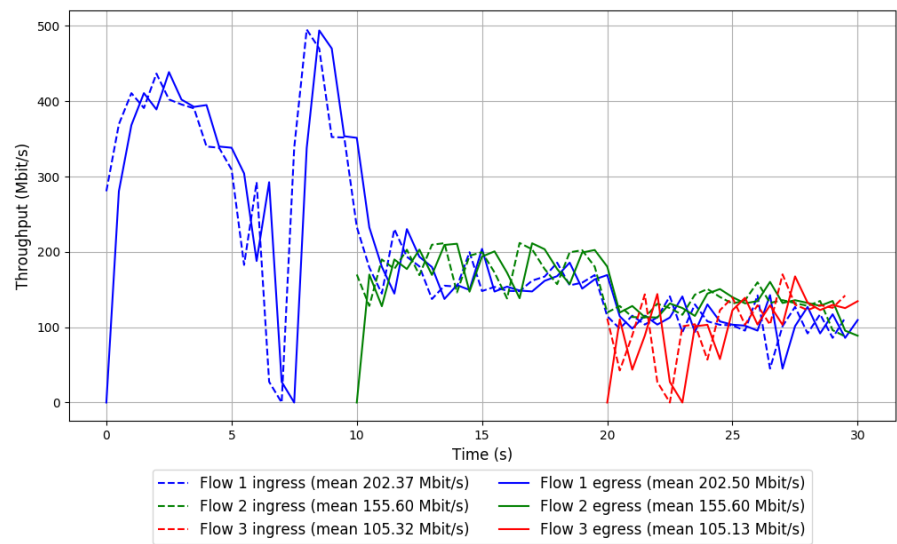
-- Flow 3:

Average throughput: 105.13 Mbit/s

95th percentile per-packet one-way delay: 2.160 ms

Loss rate: 0.38%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-05-25 12:51:25

End at: 2018-05-25 12:51:55

Local clock offset: 0.071 ms

Remote clock offset: 0.216 ms

Below is generated by plot.py at 2018-05-25 18:33:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 308.84 Mbit/s

95th percentile per-packet one-way delay: 2.940 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 179.18 Mbit/s

95th percentile per-packet one-way delay: 3.202 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 141.83 Mbit/s

95th percentile per-packet one-way delay: 2.483 ms

Loss rate: 0.13%

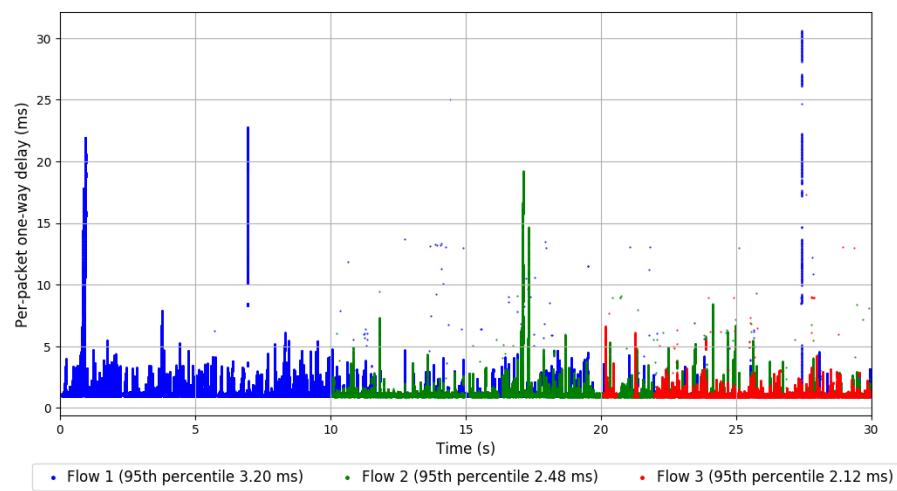
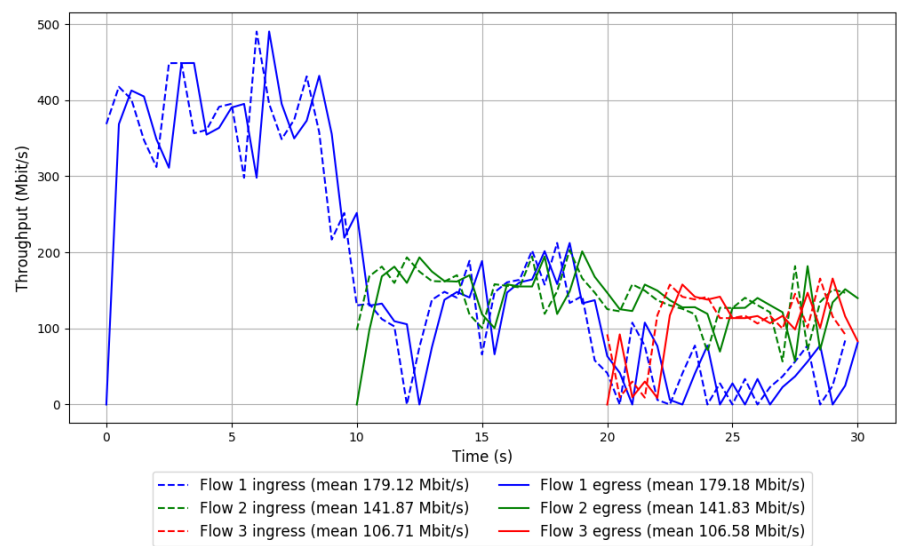
-- Flow 3:

Average throughput: 106.58 Mbit/s

95th percentile per-packet one-way delay: 2.123 ms

Loss rate: 0.42%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-05-25 13:17:02

End at: 2018-05-25 13:17:32

Local clock offset: 0.407 ms

Remote clock offset: 0.084 ms

Below is generated by plot.py at 2018-05-25 18:33:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 351.35 Mbit/s

95th percentile per-packet one-way delay: 11.992 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 206.75 Mbit/s

95th percentile per-packet one-way delay: 15.102 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 149.47 Mbit/s

95th percentile per-packet one-way delay: 1.999 ms

Loss rate: 0.10%

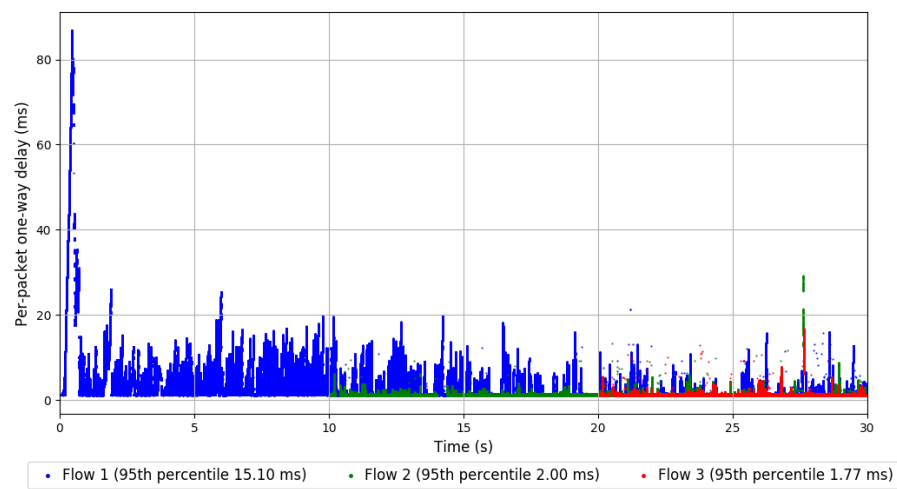
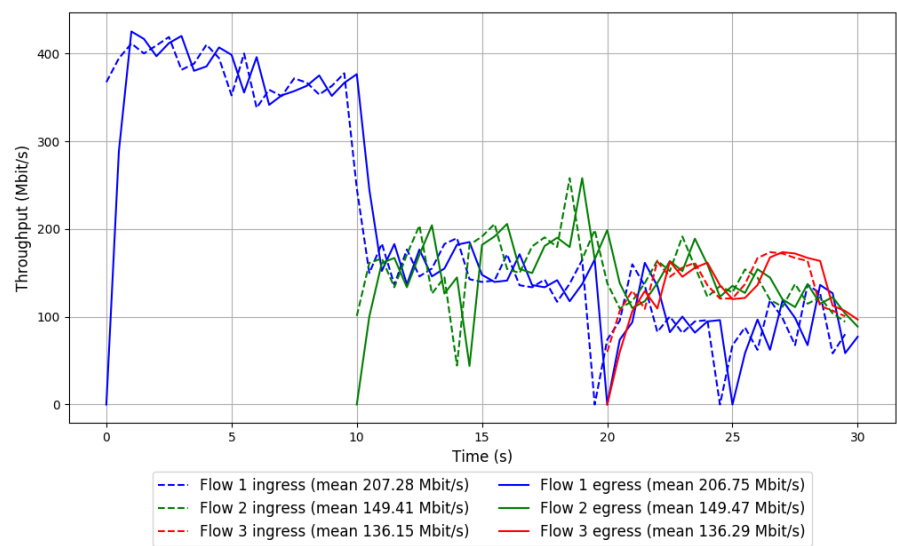
-- Flow 3:

Average throughput: 136.29 Mbit/s

95th percentile per-packet one-way delay: 1.767 ms

Loss rate: 0.15%

Run 3: Report of Verus — Data Link

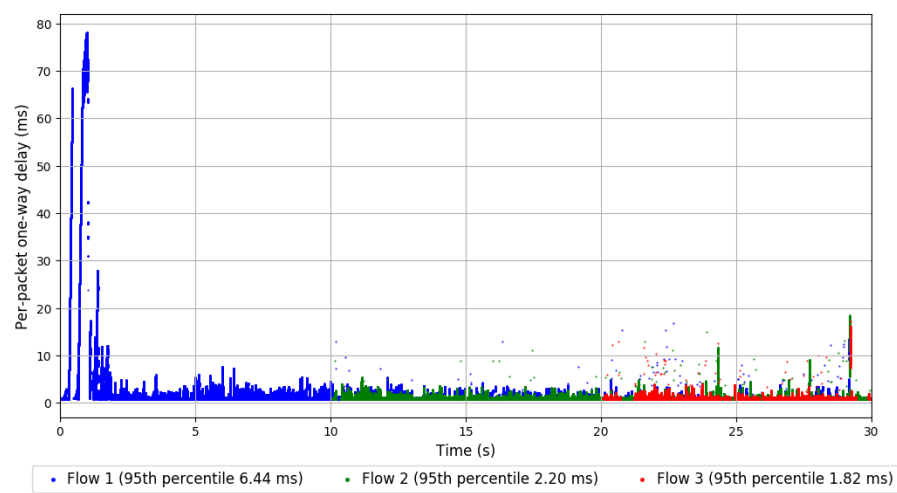
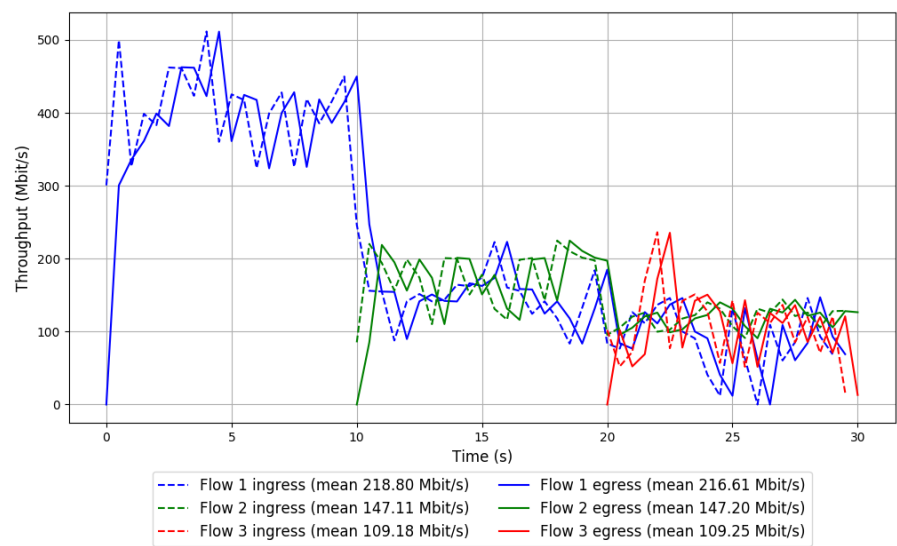


Run 4: Statistics of Verus

Start at: 2018-05-25 13:42:30
End at: 2018-05-25 13:43:00
Local clock offset: 0.09 ms
Remote clock offset: -0.266 ms

Below is generated by plot.py at 2018-05-25 18:33:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 346.30 Mbit/s
95th percentile per-packet one-way delay: 3.815 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 216.61 Mbit/s
95th percentile per-packet one-way delay: 6.436 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 147.20 Mbit/s
95th percentile per-packet one-way delay: 2.202 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 109.25 Mbit/s
95th percentile per-packet one-way delay: 1.824 ms
Loss rate: 0.15%

Run 4: Report of Verus — Data Link

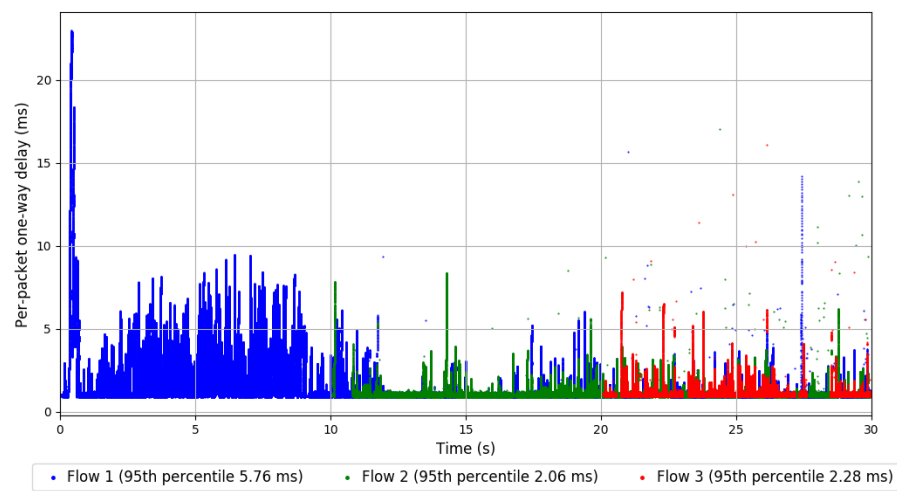
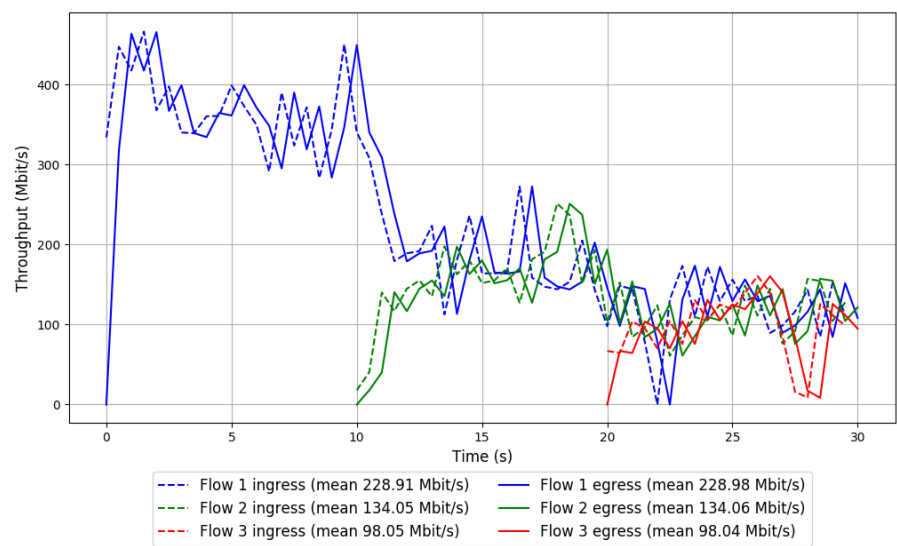


Run 5: Statistics of Verus

Start at: 2018-05-25 14:07:57
End at: 2018-05-25 14:08:27
Local clock offset: 0.007 ms
Remote clock offset: -0.078 ms

Below is generated by plot.py at 2018-05-25 18:35:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 350.57 Mbit/s
95th percentile per-packet one-way delay: 5.031 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 228.98 Mbit/s
95th percentile per-packet one-way delay: 5.757 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 134.06 Mbit/s
95th percentile per-packet one-way delay: 2.064 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 98.04 Mbit/s
95th percentile per-packet one-way delay: 2.277 ms
Loss rate: 0.20%

Run 5: Report of Verus — Data Link

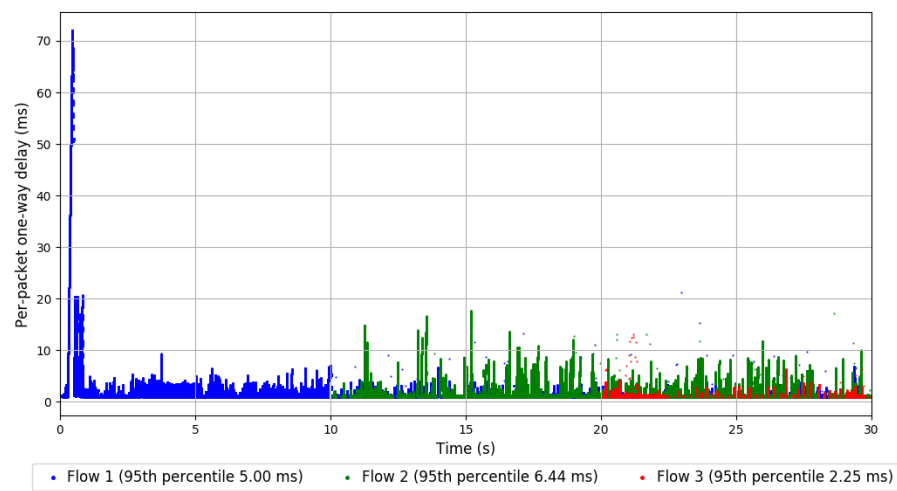
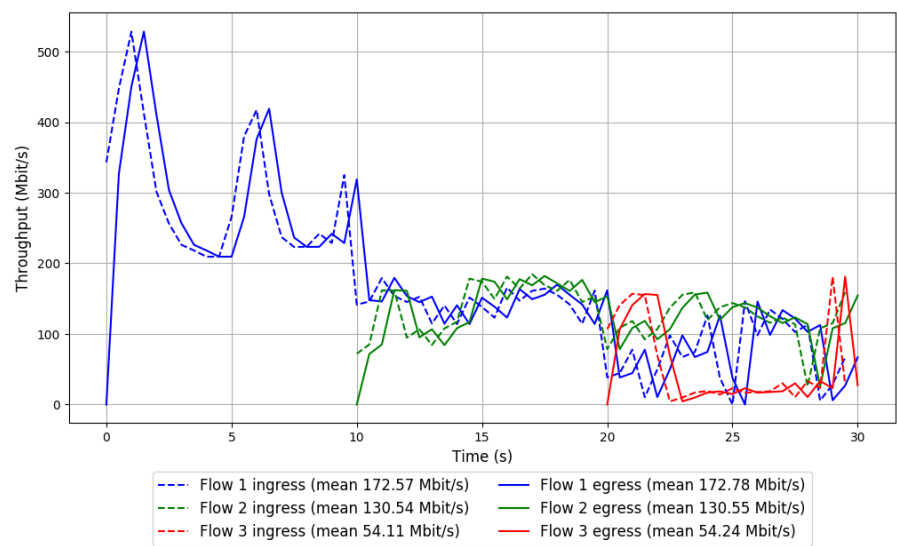


Run 6: Statistics of Verus

Start at: 2018-05-25 14:33:14
End at: 2018-05-25 14:33:44
Local clock offset: -0.033 ms
Remote clock offset: -0.14 ms

Below is generated by plot.py at 2018-05-25 18:35:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 277.28 Mbit/s
95th percentile per-packet one-way delay: 5.429 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 172.78 Mbit/s
95th percentile per-packet one-way delay: 4.999 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 130.55 Mbit/s
95th percentile per-packet one-way delay: 6.438 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 54.24 Mbit/s
95th percentile per-packet one-way delay: 2.252 ms
Loss rate: 0.09%

Run 6: Report of Verus — Data Link

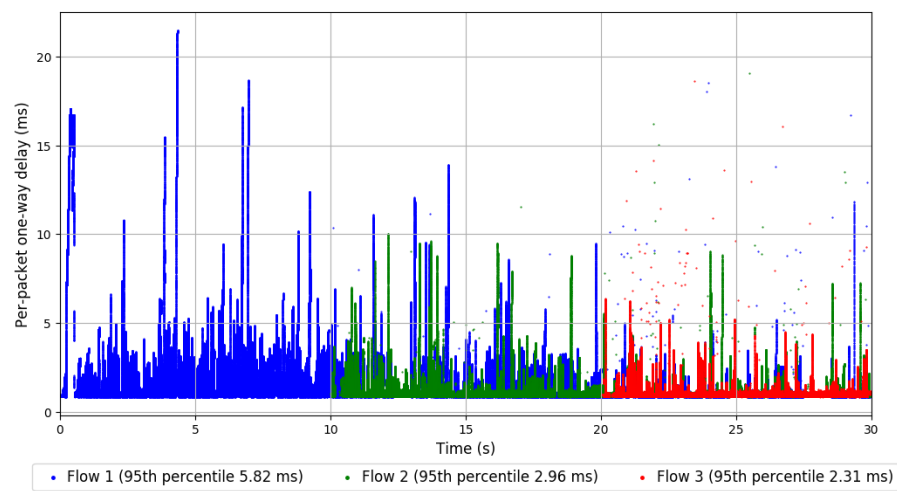
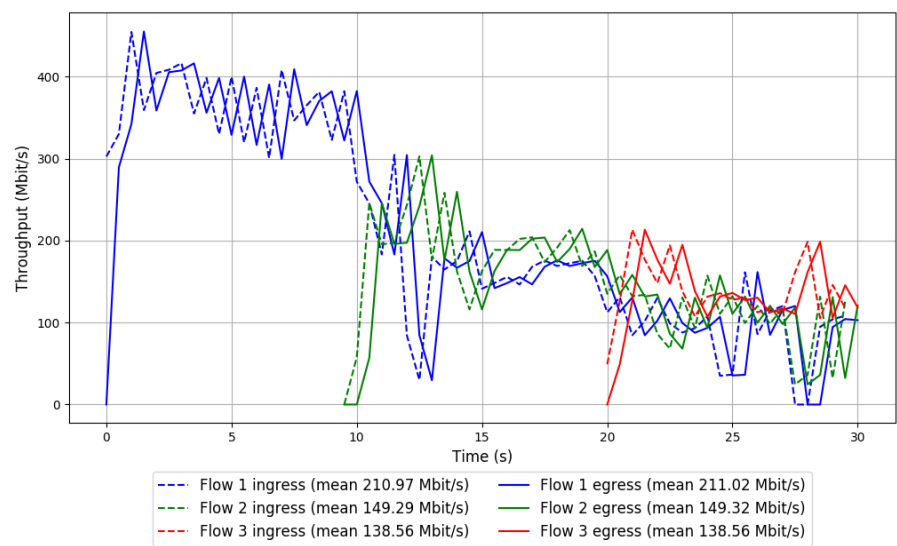


Run 7: Statistics of Verus

Start at: 2018-05-25 14:58:41
End at: 2018-05-25 14:59:11
Local clock offset: -0.067 ms
Remote clock offset: -0.209 ms

Below is generated by plot.py at 2018-05-25 18:35:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 356.40 Mbit/s
95th percentile per-packet one-way delay: 4.457 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 211.02 Mbit/s
95th percentile per-packet one-way delay: 5.815 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 149.32 Mbit/s
95th percentile per-packet one-way delay: 2.961 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 138.56 Mbit/s
95th percentile per-packet one-way delay: 2.311 ms
Loss rate: 0.00%

Run 7: Report of Verus — Data Link

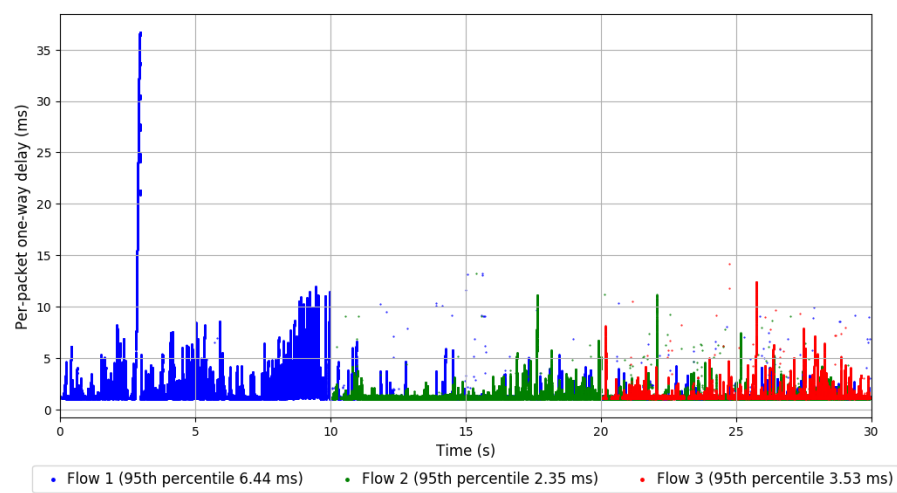
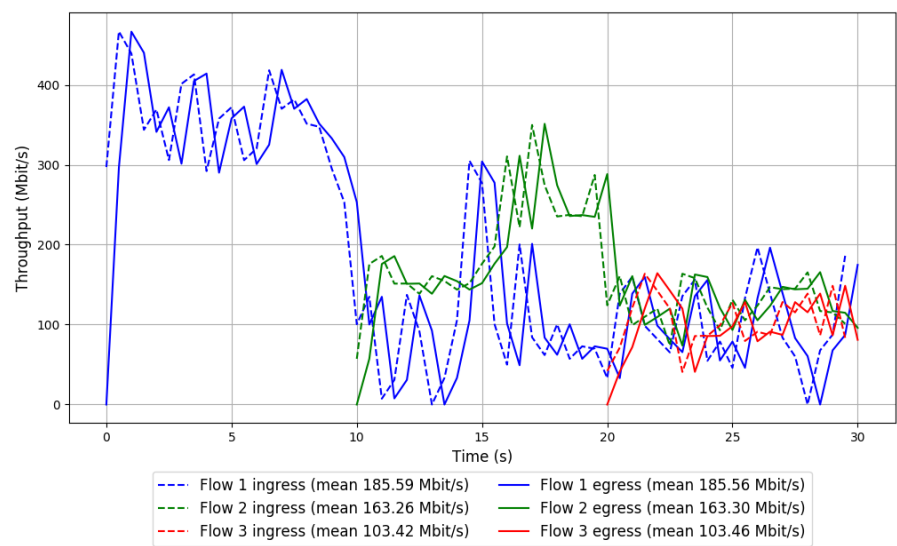


Run 8: Statistics of Verus

Start at: 2018-05-25 15:24:14
End at: 2018-05-25 15:24:44
Local clock offset: 0.051 ms
Remote clock offset: -0.369 ms

Below is generated by plot.py at 2018-05-25 18:36:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 328.51 Mbit/s
95th percentile per-packet one-way delay: 5.037 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 185.56 Mbit/s
95th percentile per-packet one-way delay: 6.436 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 163.30 Mbit/s
95th percentile per-packet one-way delay: 2.349 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 103.46 Mbit/s
95th percentile per-packet one-way delay: 3.533 ms
Loss rate: 0.12%

Run 8: Report of Verus — Data Link

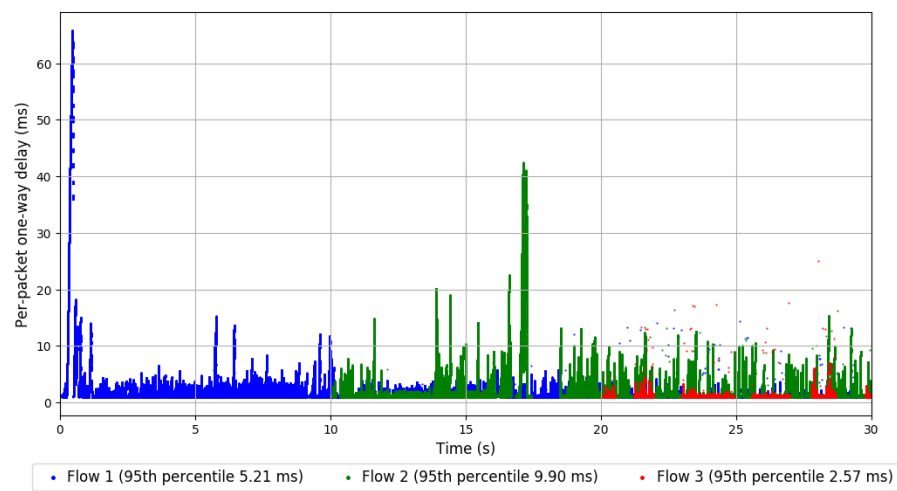
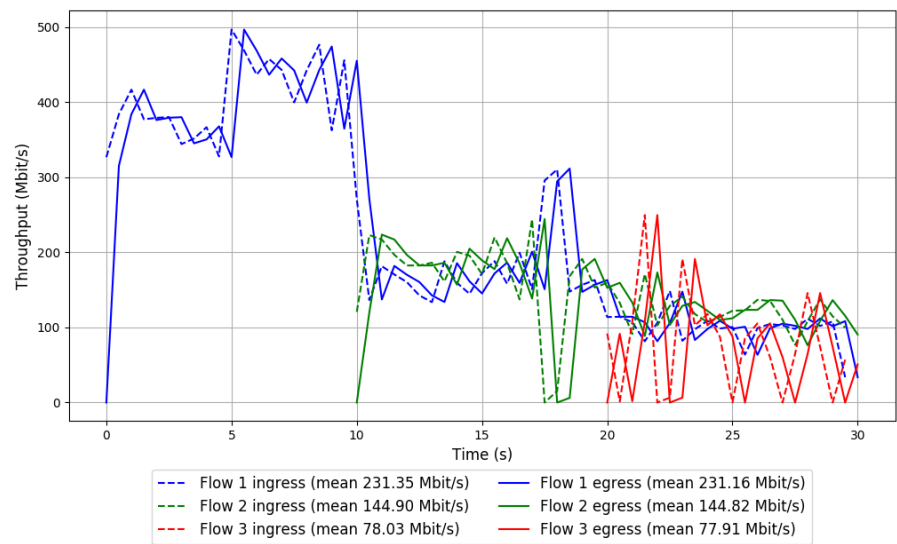


Run 9: Statistics of Verus

Start at: 2018-05-25 15:49:40
End at: 2018-05-25 15:50:10
Local clock offset: 0.255 ms
Remote clock offset: -0.219 ms

Below is generated by plot.py at 2018-05-25 18:37:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 350.86 Mbit/s
95th percentile per-packet one-way delay: 6.839 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 231.16 Mbit/s
95th percentile per-packet one-way delay: 5.206 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 144.82 Mbit/s
95th percentile per-packet one-way delay: 9.898 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 77.91 Mbit/s
95th percentile per-packet one-way delay: 2.574 ms
Loss rate: 0.40%

Run 9: Report of Verus — Data Link

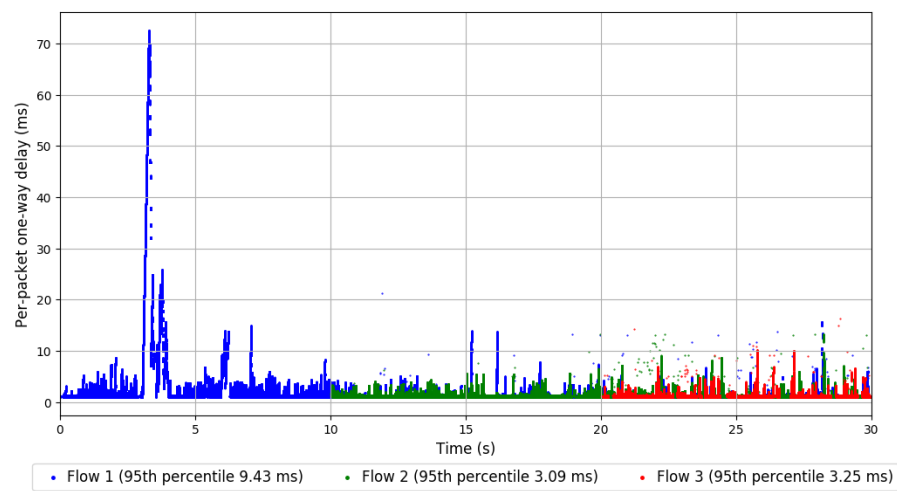
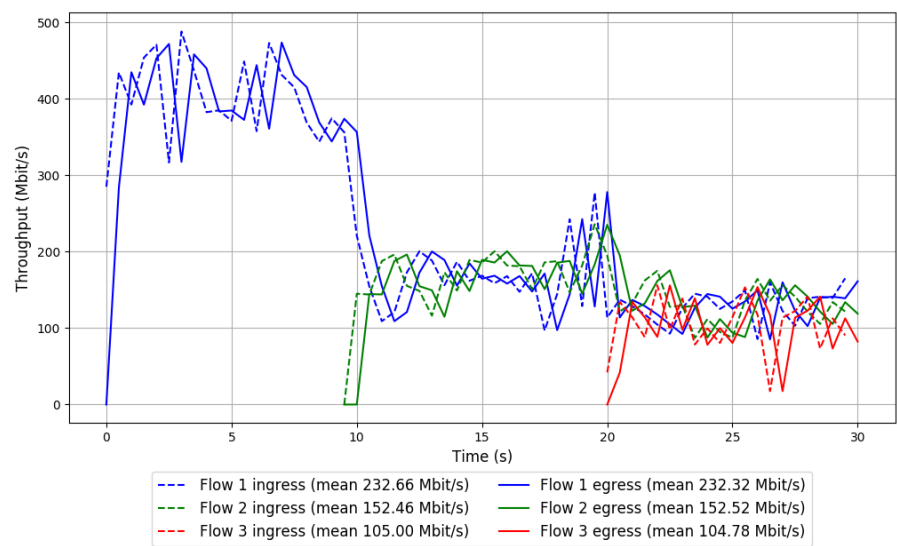


Run 10: Statistics of Verus

Start at: 2018-05-25 16:14:51
End at: 2018-05-25 16:15:21
Local clock offset: 0.101 ms
Remote clock offset: -0.167 ms

Below is generated by plot.py at 2018-05-25 18:37:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 368.64 Mbit/s
95th percentile per-packet one-way delay: 5.853 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 232.32 Mbit/s
95th percentile per-packet one-way delay: 9.426 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 152.52 Mbit/s
95th percentile per-packet one-way delay: 3.087 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 104.78 Mbit/s
95th percentile per-packet one-way delay: 3.251 ms
Loss rate: 0.39%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-05-25 12:23:10

End at: 2018-05-25 12:23:40

Local clock offset: 0.171 ms

Remote clock offset: 0.264 ms

Below is generated by plot.py at 2018-05-25 18:37:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 306.76 Mbit/s

95th percentile per-packet one-way delay: 1.029 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 227.38 Mbit/s

95th percentile per-packet one-way delay: 1.018 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 83.09 Mbit/s

95th percentile per-packet one-way delay: 1.061 ms

Loss rate: 0.08%

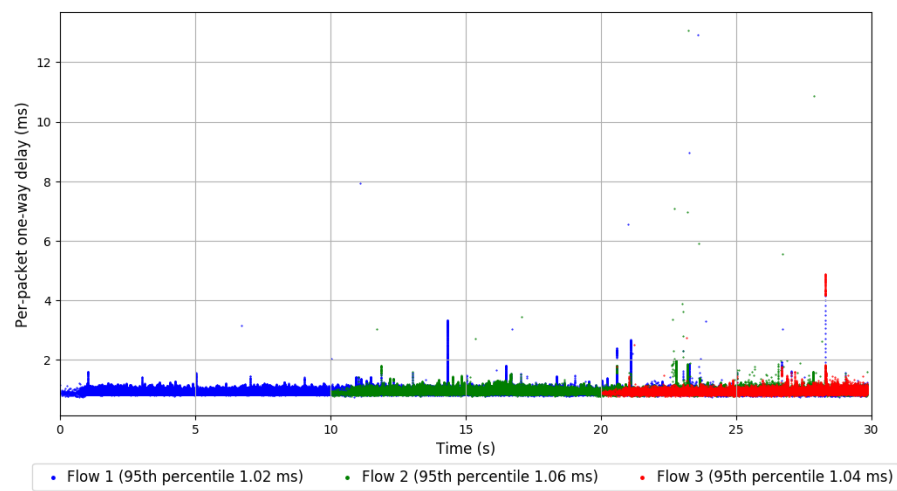
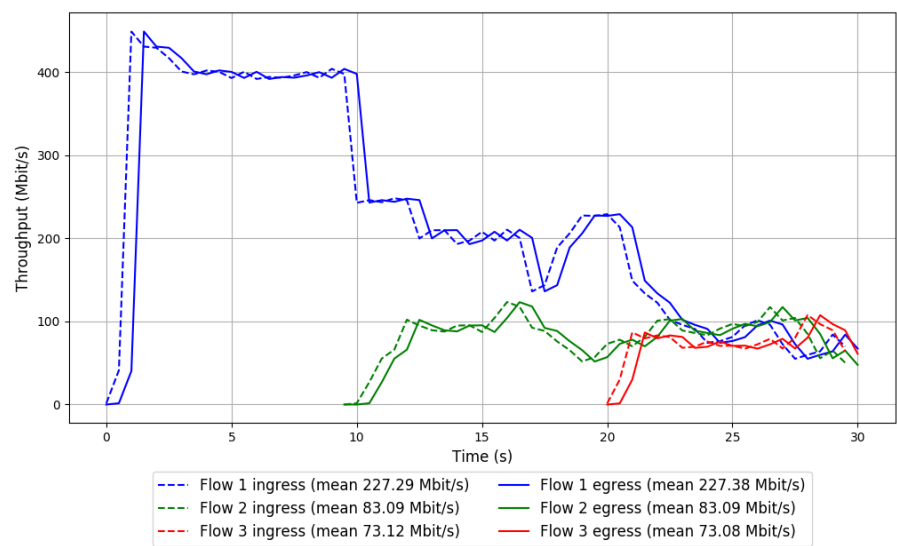
-- Flow 3:

Average throughput: 73.08 Mbit/s

95th percentile per-packet one-way delay: 1.042 ms

Loss rate: 0.24%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-05-25 12:48:37

End at: 2018-05-25 12:49:07

Local clock offset: 0.181 ms

Remote clock offset: 0.412 ms

Below is generated by plot.py at 2018-05-25 18:37:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 273.97 Mbit/s

95th percentile per-packet one-way delay: 1.090 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 194.53 Mbit/s

95th percentile per-packet one-way delay: 1.082 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 82.40 Mbit/s

95th percentile per-packet one-way delay: 1.102 ms

Loss rate: 0.13%

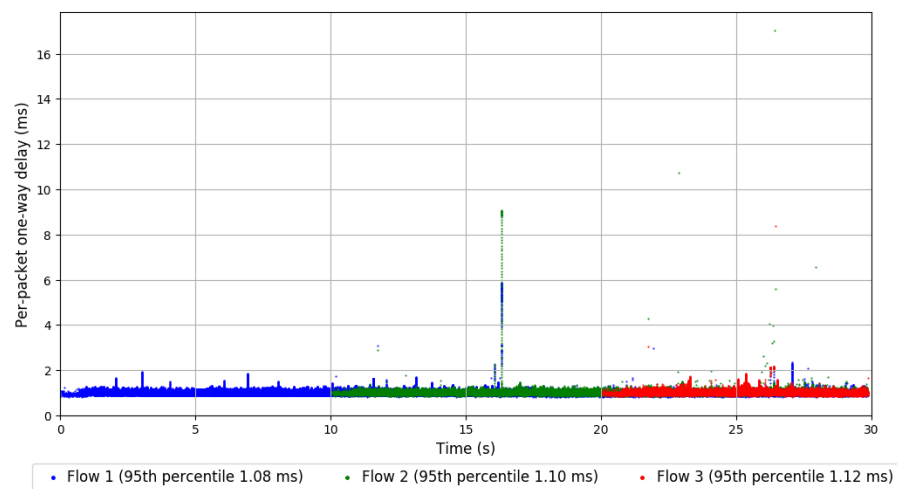
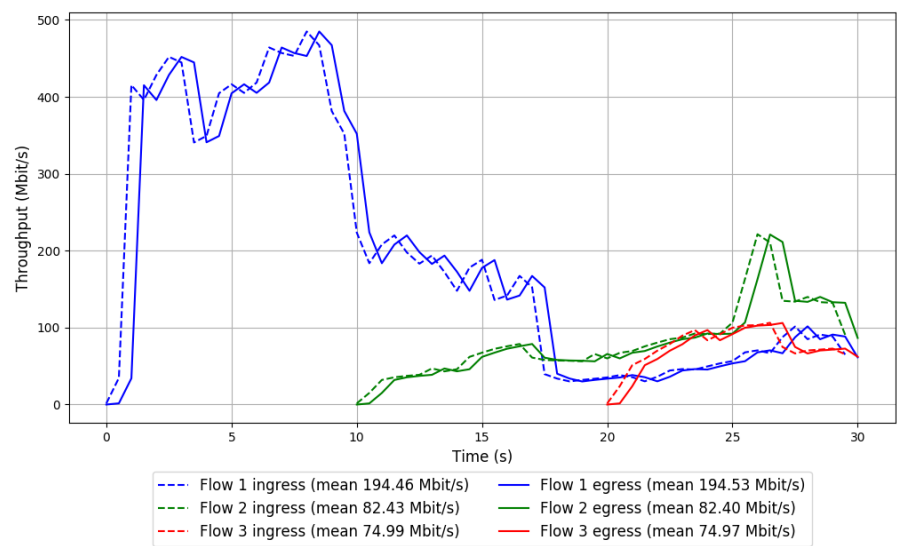
-- Flow 3:

Average throughput: 74.97 Mbit/s

95th percentile per-packet one-way delay: 1.118 ms

Loss rate: 0.22%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-05-25 13:14:11

End at: 2018-05-25 13:14:41

Local clock offset: 0.382 ms

Remote clock offset: 0.179 ms

Below is generated by plot.py at 2018-05-25 18:38:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 266.18 Mbit/s

95th percentile per-packet one-way delay: 1.263 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 178.89 Mbit/s

95th percentile per-packet one-way delay: 1.418 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 101.03 Mbit/s

95th percentile per-packet one-way delay: 1.127 ms

Loss rate: 0.18%

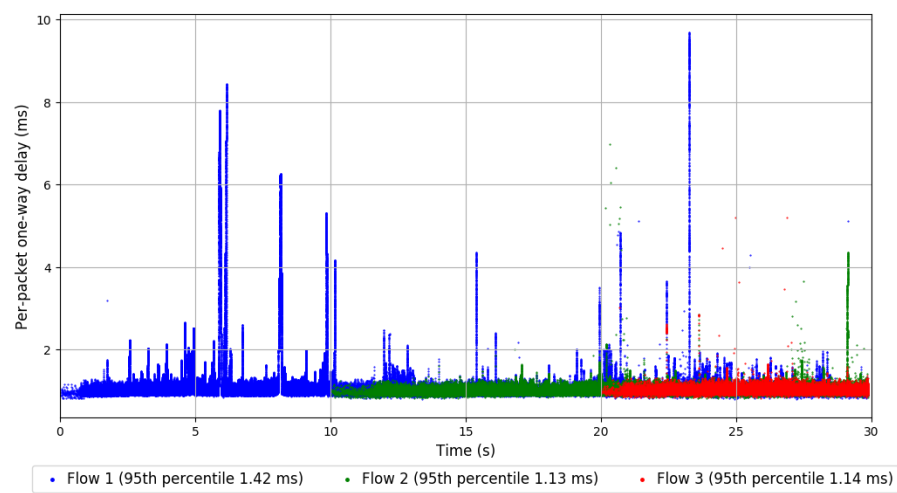
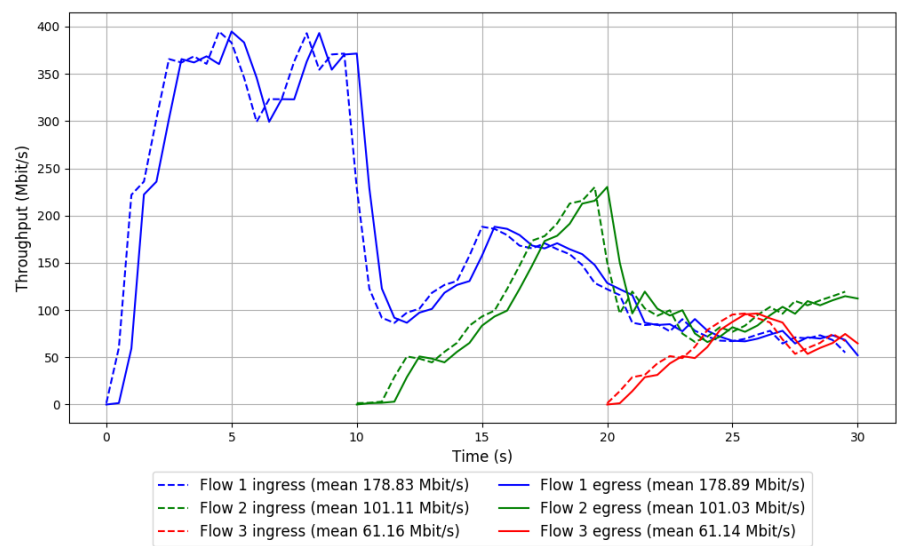
-- Flow 3:

Average throughput: 61.14 Mbit/s

95th percentile per-packet one-way delay: 1.140 ms

Loss rate: 0.23%

Run 3: Report of PCC-Vivace — Data Link

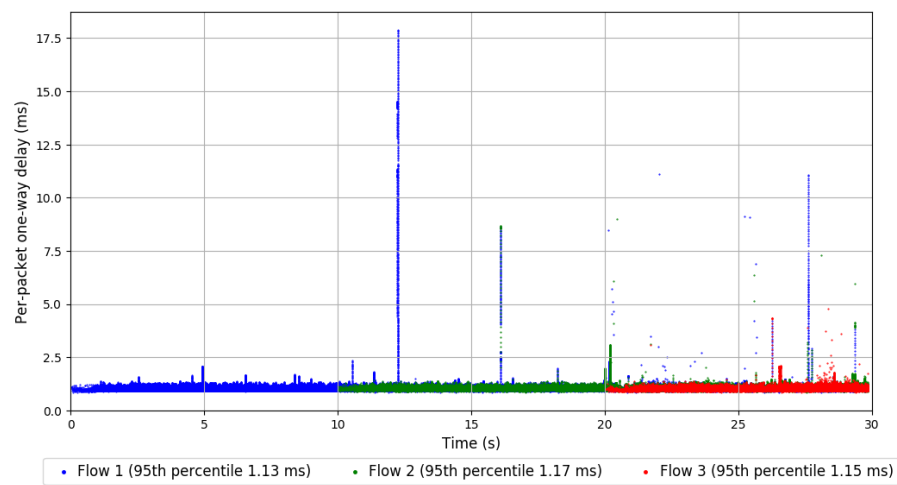
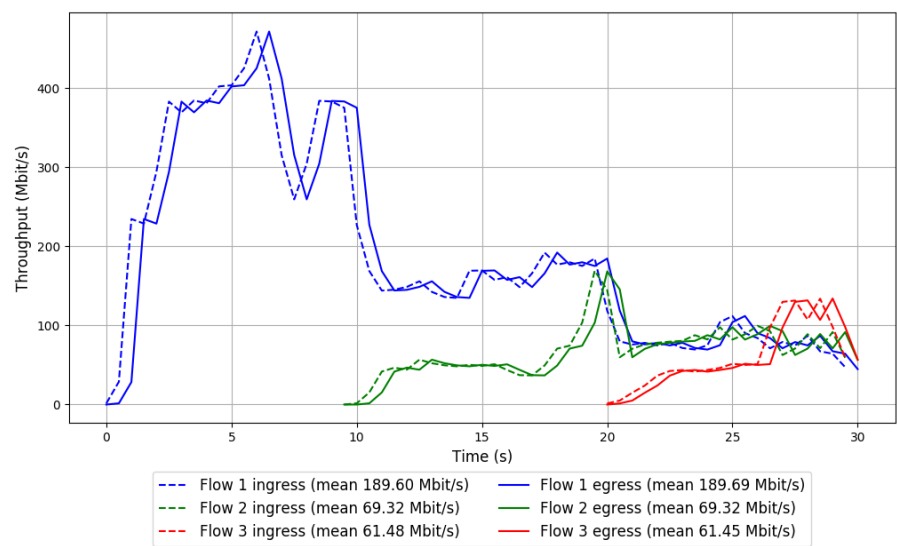


Run 4: Statistics of PCC-Vivace

Start at: 2018-05-25 13:39:42
End at: 2018-05-25 13:40:12
Local clock offset: 0.21 ms
Remote clock offset: -0.222 ms

Below is generated by plot.py at 2018-05-25 18:38:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 256.00 Mbit/s
95th percentile per-packet one-way delay: 1.140 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 189.69 Mbit/s
95th percentile per-packet one-way delay: 1.131 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 69.32 Mbit/s
95th percentile per-packet one-way delay: 1.166 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 61.45 Mbit/s
95th percentile per-packet one-way delay: 1.150 ms
Loss rate: 0.23%

Run 4: Report of PCC-Vivace — Data Link

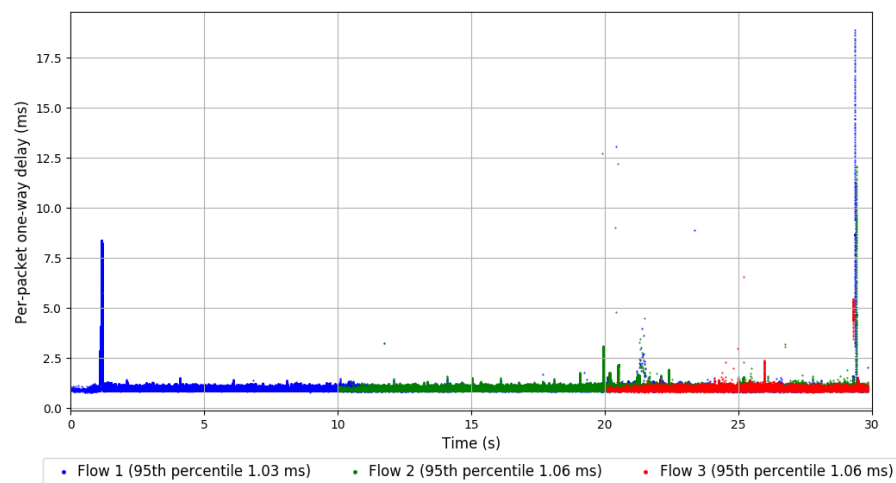
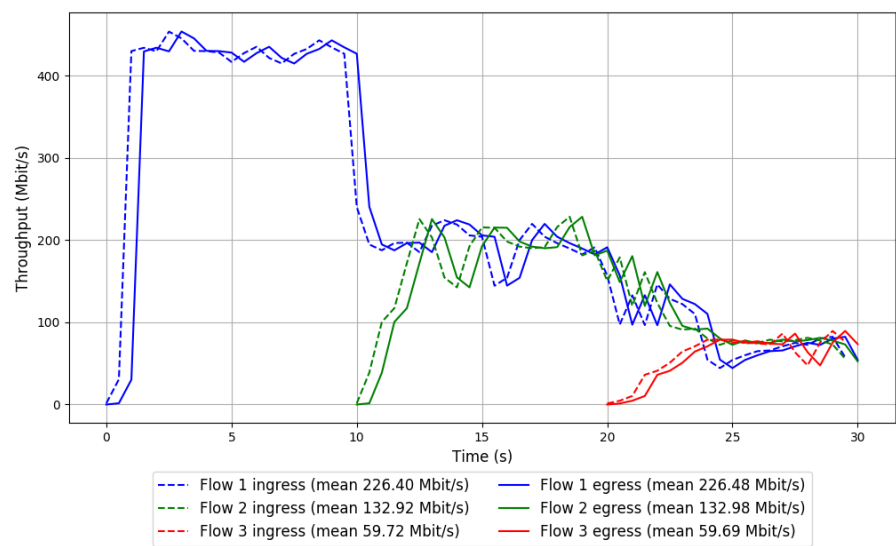


Run 5: Statistics of PCC-Vivace

Start at: 2018-05-25 14:05:03
End at: 2018-05-25 14:05:33
Local clock offset: 0.001 ms
Remote clock offset: -0.085 ms

Below is generated by plot.py at 2018-05-25 18:40:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 334.55 Mbit/s
95th percentile per-packet one-way delay: 1.044 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 226.48 Mbit/s
95th percentile per-packet one-way delay: 1.035 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 132.98 Mbit/s
95th percentile per-packet one-way delay: 1.061 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 59.69 Mbit/s
95th percentile per-packet one-way delay: 1.056 ms
Loss rate: 0.26%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-05-25 14:30:22

End at: 2018-05-25 14:30:52

Local clock offset: -0.042 ms

Remote clock offset: 0.012 ms

Below is generated by plot.py at 2018-05-25 18:40:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 289.22 Mbit/s

95th percentile per-packet one-way delay: 1.078 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 176.77 Mbit/s

95th percentile per-packet one-way delay: 1.123 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 136.85 Mbit/s

95th percentile per-packet one-way delay: 1.045 ms

Loss rate: 0.09%

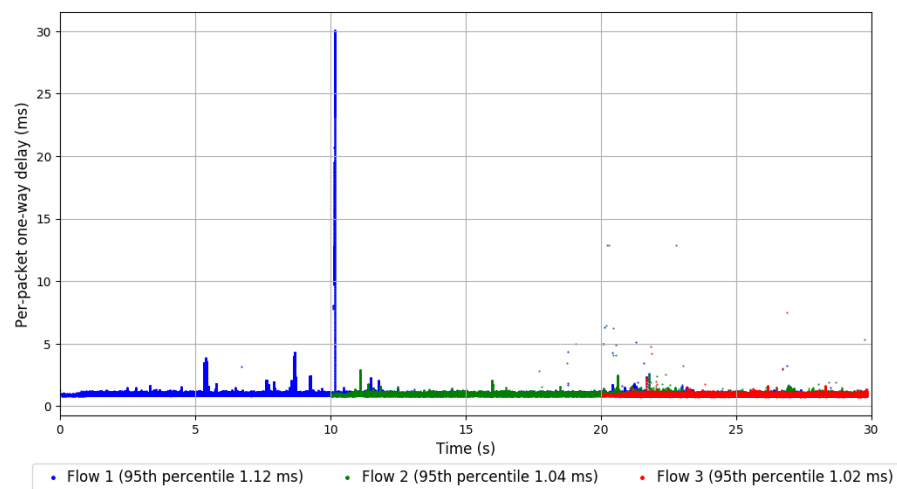
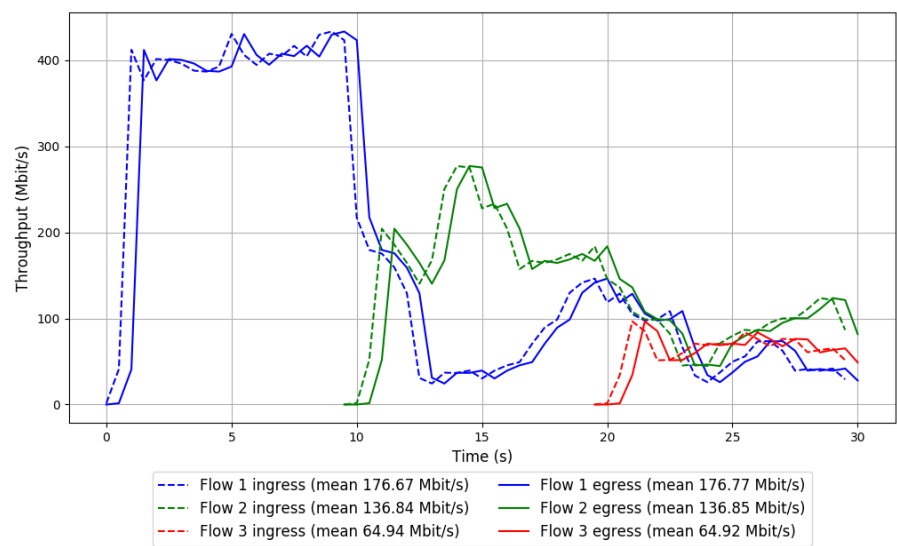
-- Flow 3:

Average throughput: 64.92 Mbit/s

95th percentile per-packet one-way delay: 1.020 ms

Loss rate: 0.22%

Run 6: Report of PCC-Vivace — Data Link

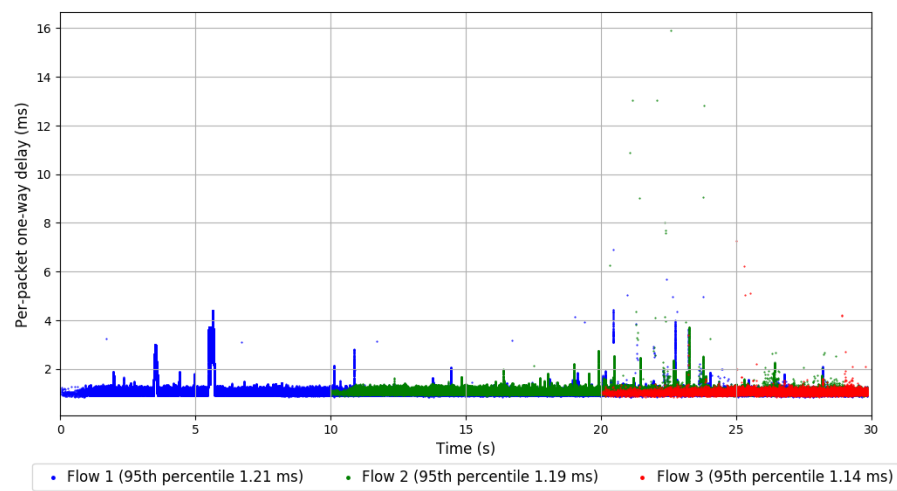
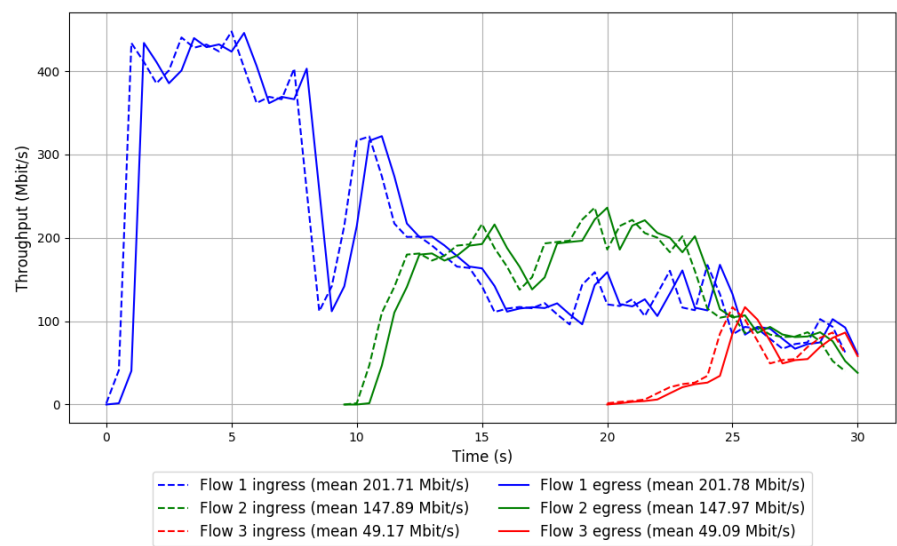


Run 7: Statistics of PCC-Vivace

Start at: 2018-05-25 14:55:50
End at: 2018-05-25 14:56:20
Local clock offset: 0.02 ms
Remote clock offset: -0.202 ms

Below is generated by plot.py at 2018-05-25 18:40:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 316.39 Mbit/s
95th percentile per-packet one-way delay: 1.197 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 201.78 Mbit/s
95th percentile per-packet one-way delay: 1.212 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 147.97 Mbit/s
95th percentile per-packet one-way delay: 1.192 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 49.09 Mbit/s
95th percentile per-packet one-way delay: 1.139 ms
Loss rate: 0.35%

Run 7: Report of PCC-Vivace — Data Link

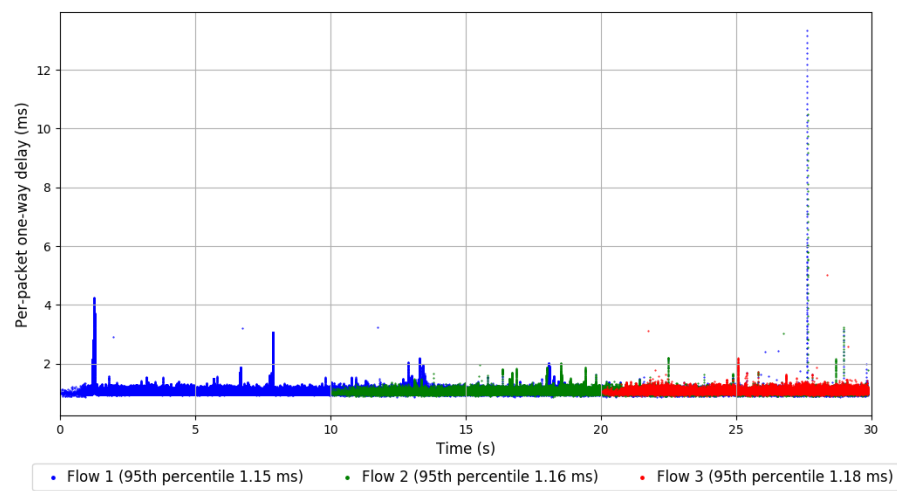
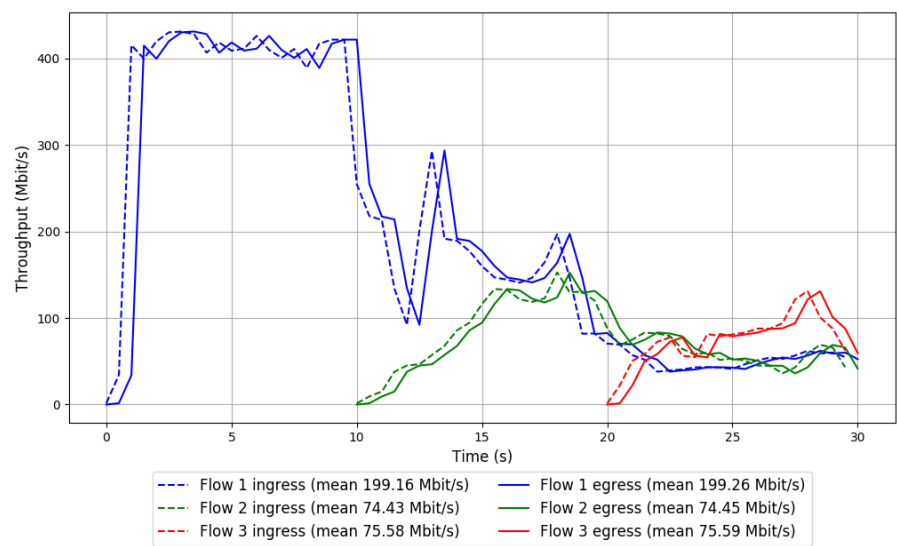


Run 8: Statistics of PCC-Vivace

Start at: 2018-05-25 15:21:23
End at: 2018-05-25 15:21:53
Local clock offset: 0.053 ms
Remote clock offset: -0.303 ms

Below is generated by plot.py at 2018-05-25 18:40:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 273.64 Mbit/s
95th percentile per-packet one-way delay: 1.157 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 199.26 Mbit/s
95th percentile per-packet one-way delay: 1.151 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 74.45 Mbit/s
95th percentile per-packet one-way delay: 1.162 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 75.59 Mbit/s
95th percentile per-packet one-way delay: 1.178 ms
Loss rate: 0.21%

Run 8: Report of PCC-Vivace — Data Link

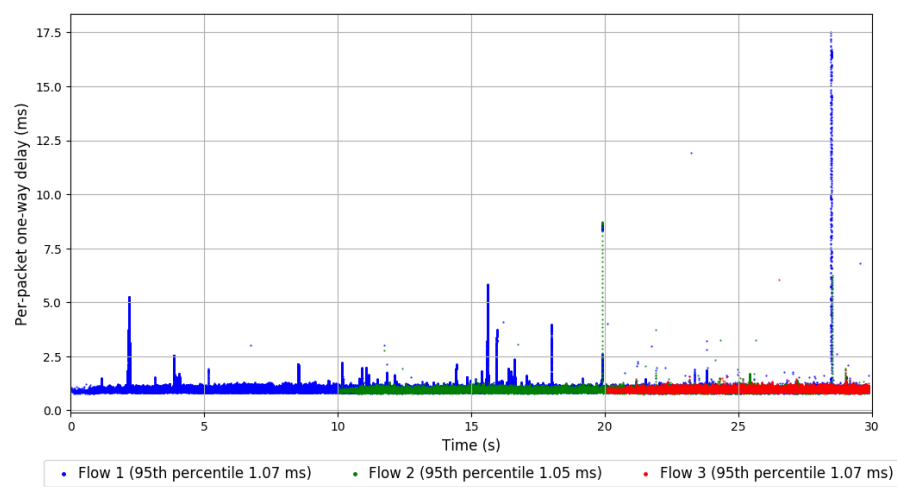
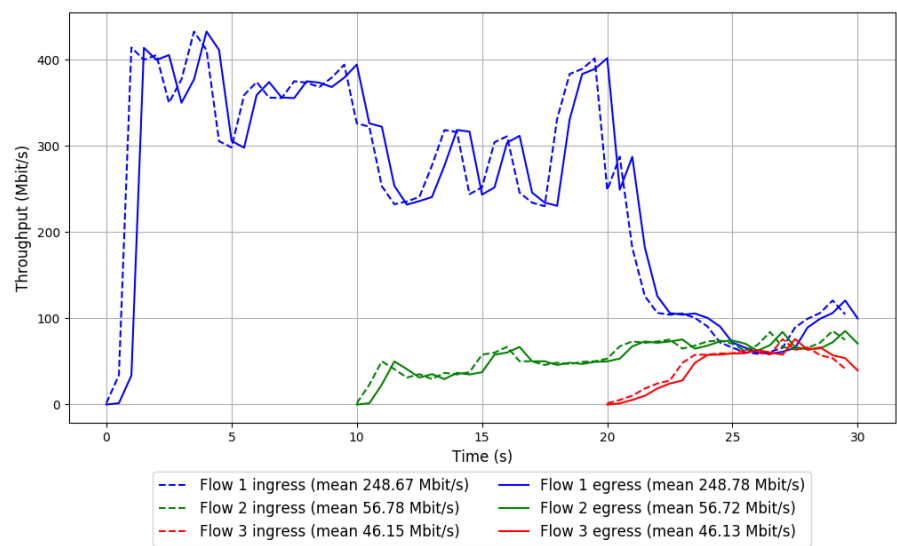


Run 9: Statistics of PCC-Vivace

Start at: 2018-05-25 15:46:48
End at: 2018-05-25 15:47:18
Local clock offset: 0.142 ms
Remote clock offset: -0.203 ms

Below is generated by plot.py at 2018-05-25 18:40:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 301.67 Mbit/s
95th percentile per-packet one-way delay: 1.067 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 248.78 Mbit/s
95th percentile per-packet one-way delay: 1.070 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 56.72 Mbit/s
95th percentile per-packet one-way delay: 1.053 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 46.13 Mbit/s
95th percentile per-packet one-way delay: 1.069 ms
Loss rate: 0.23%

Run 9: Report of PCC-Vivace — Data Link

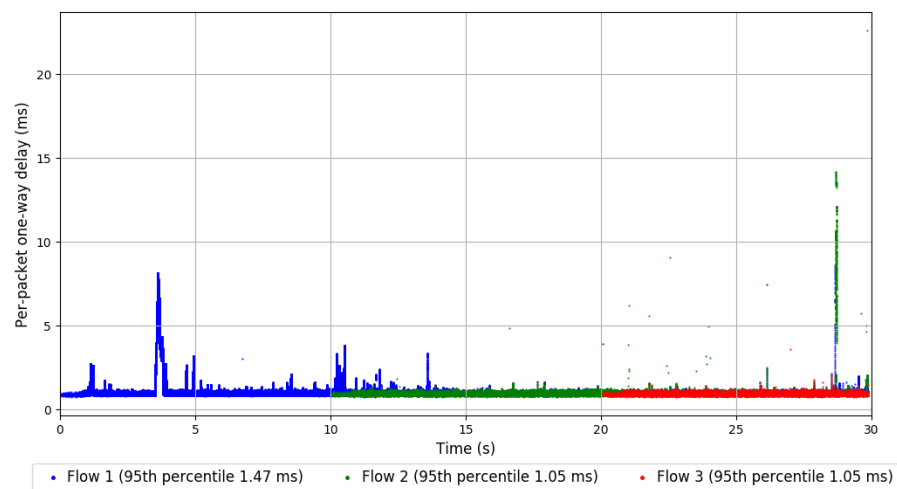
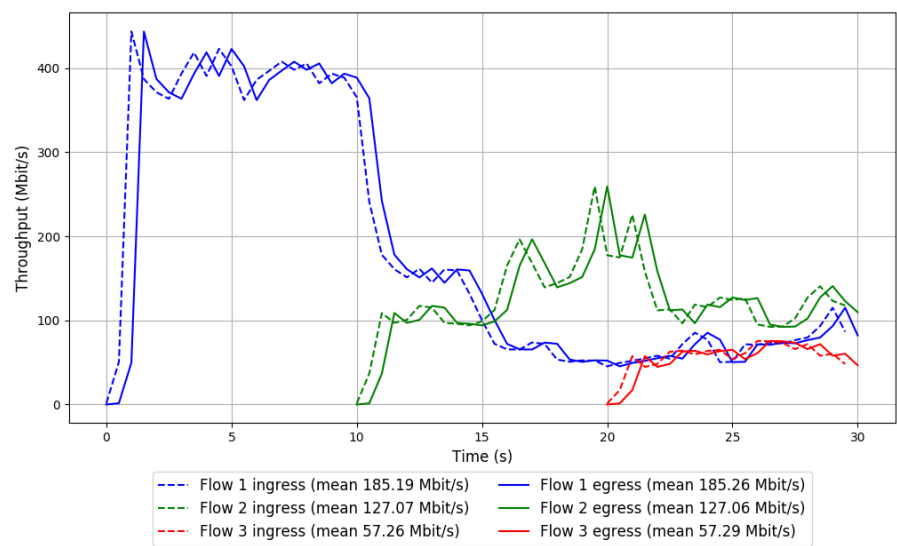


Run 10: Statistics of PCC-Vivace

Start at: 2018-05-25 16:12:01
End at: 2018-05-25 16:12:31
Local clock offset: 0.018 ms
Remote clock offset: -0.155 ms

Below is generated by plot.py at 2018-05-25 18:40:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 288.51 Mbit/s
95th percentile per-packet one-way delay: 1.145 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 185.26 Mbit/s
95th percentile per-packet one-way delay: 1.466 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 127.06 Mbit/s
95th percentile per-packet one-way delay: 1.052 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 57.29 Mbit/s
95th percentile per-packet one-way delay: 1.051 ms
Loss rate: 0.13%

Run 10: Report of PCC-Vivace — Data Link

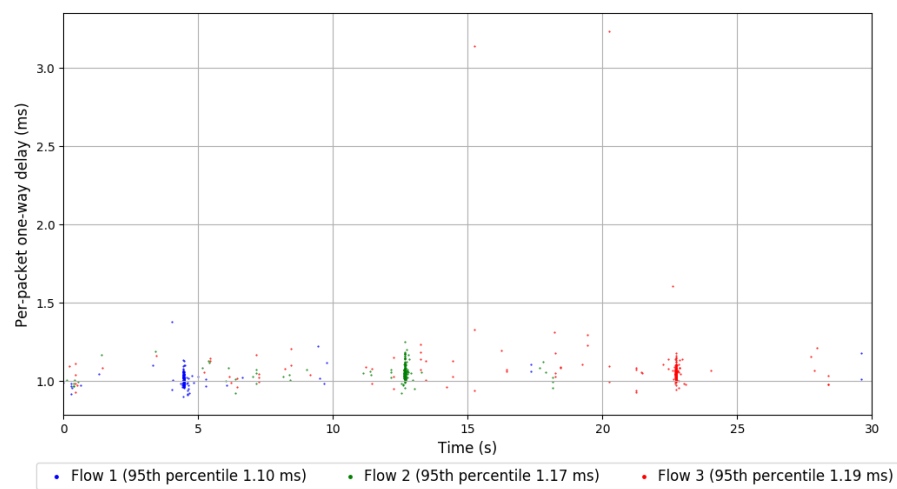
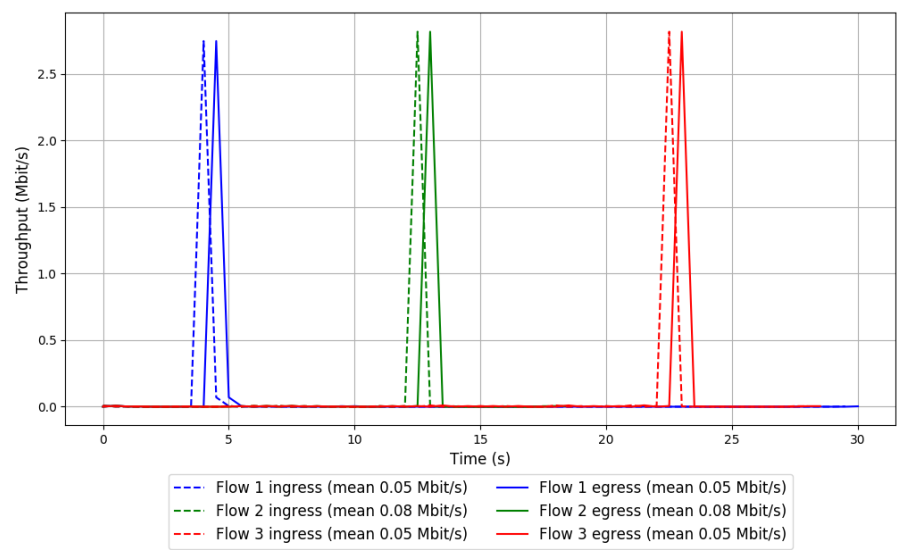


```
Run 1: Statistics of WebRTC media

Start at: 2018-05-25 12:11:46
End at: 2018-05-25 12:12:16
Local clock offset: 0.248 ms
Remote clock offset: 0.183 ms

# Below is generated by plot.py at 2018-05-25 18:40:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 1.167 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.100 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 1.167 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.194 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-05-25 12:37:13

End at: 2018-05-25 12:37:43

Local clock offset: 0.181 ms

Remote clock offset: 0.259 ms

Below is generated by plot.py at 2018-05-25 18:40:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 1.248 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.232 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 1.257 ms

Loss rate: 0.00%

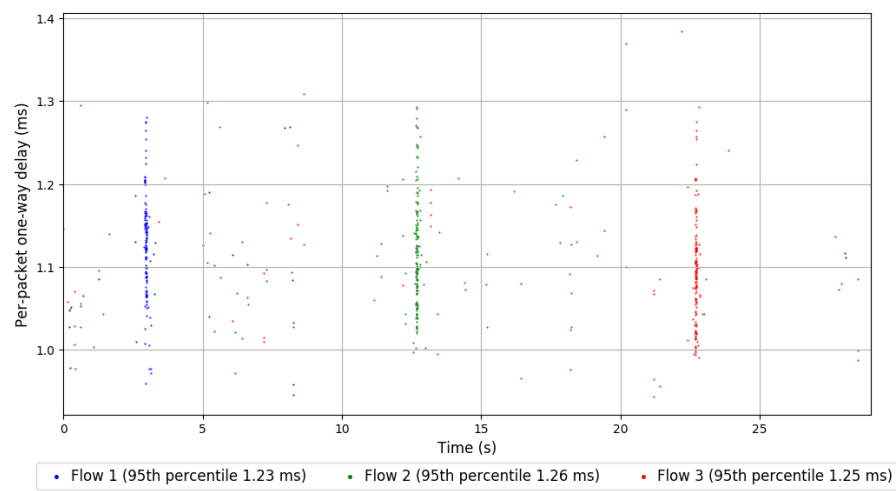
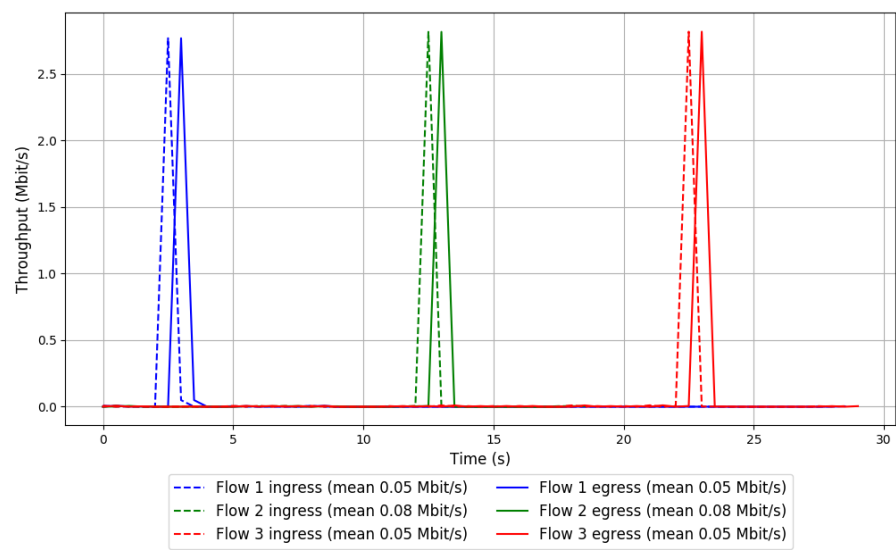
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.247 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-05-25 13:02:57

End at: 2018-05-25 13:03:27

Local clock offset: 0.269 ms

Remote clock offset: 0.057 ms

Below is generated by plot.py at 2018-05-25 18:40:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 1.227 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.165 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 1.185 ms

Loss rate: 0.00%

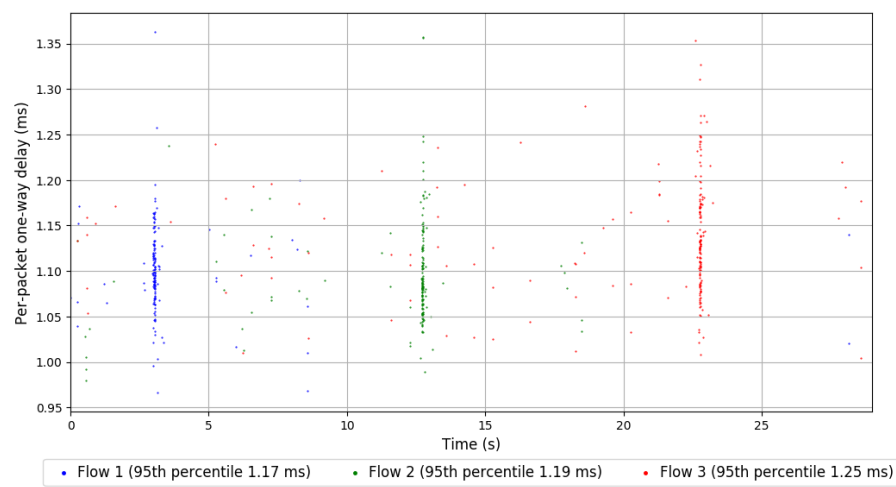
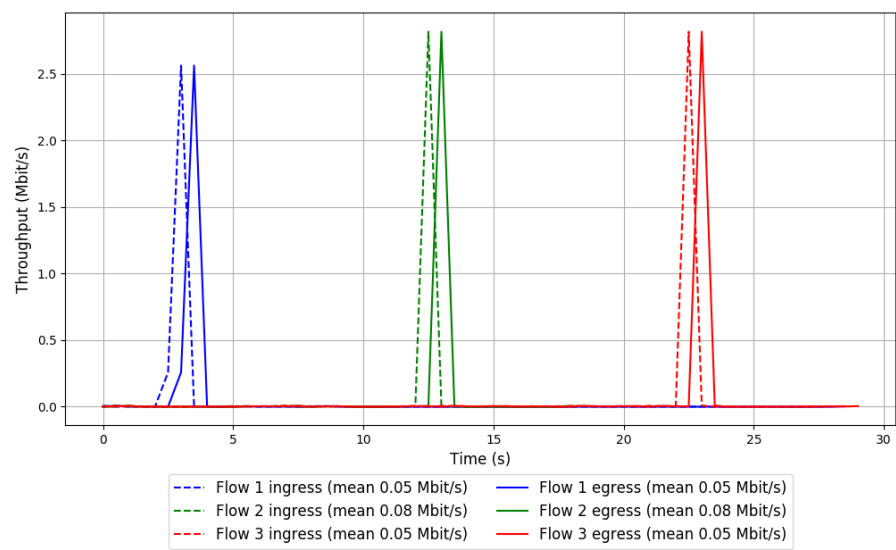
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.247 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-05-25 13:28:24

End at: 2018-05-25 13:28:54

Local clock offset: 0.458 ms

Remote clock offset: -0.09 ms

Below is generated by plot.py at 2018-05-25 18:40:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 1.229 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.133 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 1.217 ms

Loss rate: 0.00%

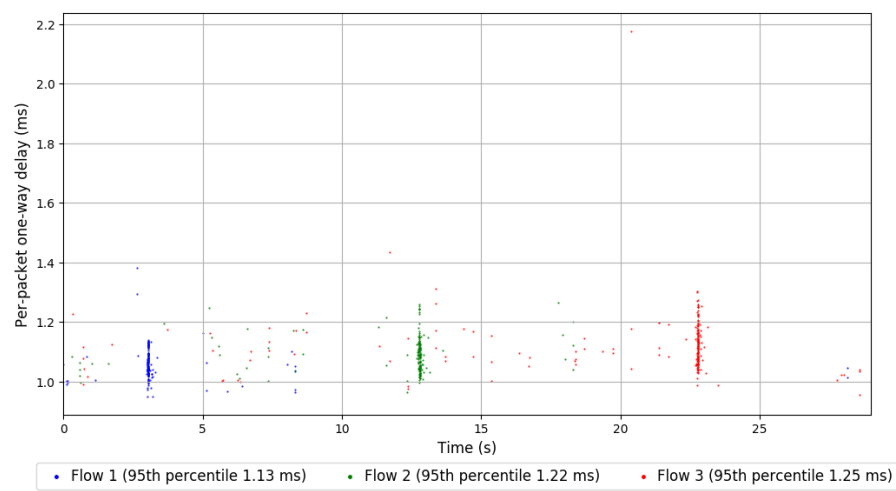
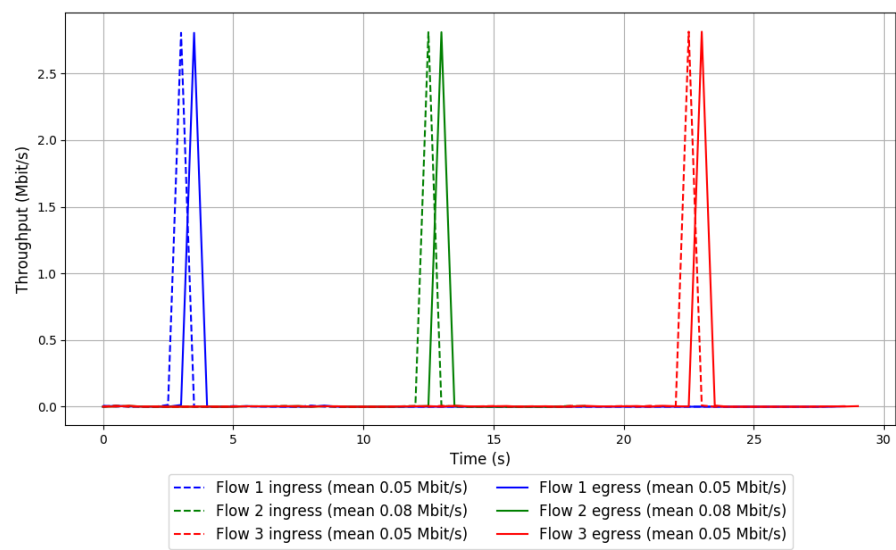
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.255 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

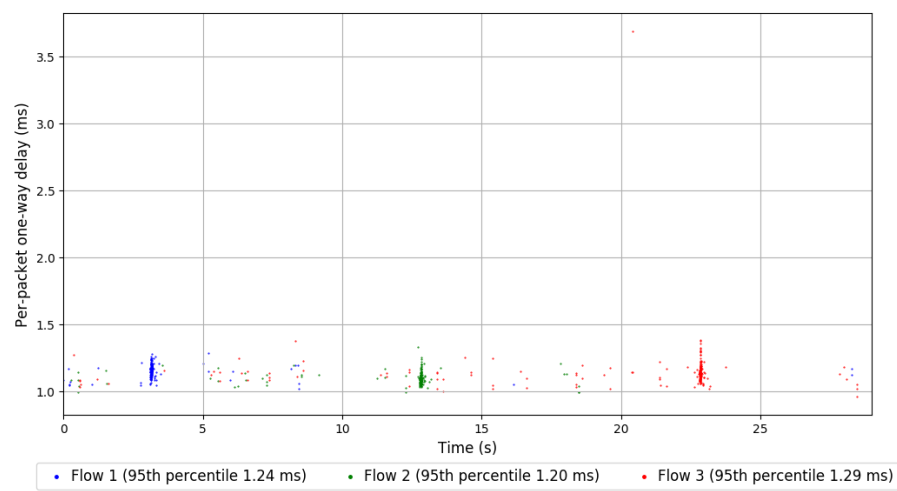
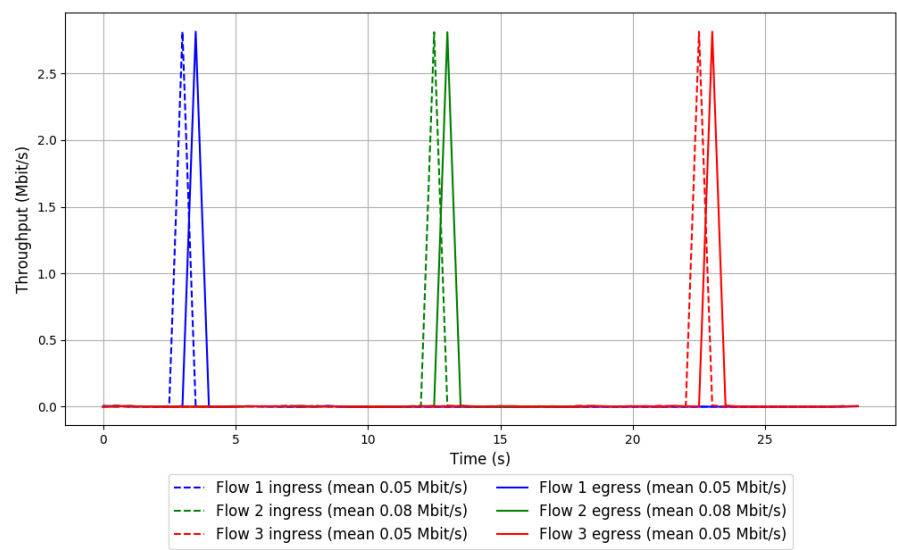


Run 5: Statistics of WebRTC media

Start at: 2018-05-25 13:53:57
End at: 2018-05-25 13:54:27
Local clock offset: 0.107 ms
Remote clock offset: -0.437 ms

Below is generated by plot.py at 2018-05-25 18:40:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 1.242 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.240 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 1.198 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.293 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

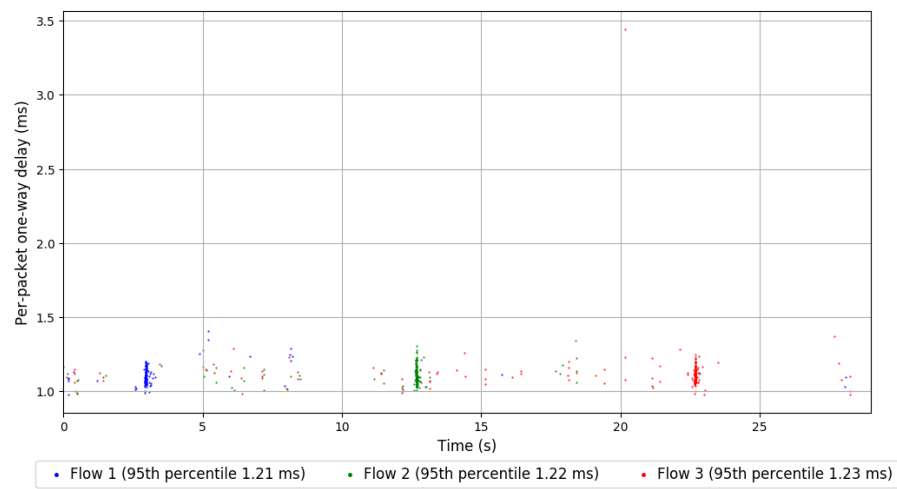
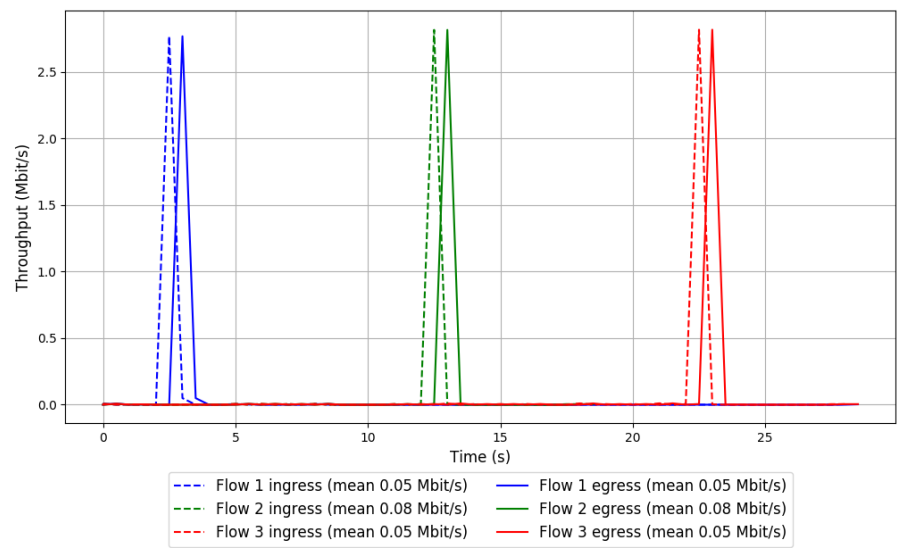


Run 6: Statistics of WebRTC media

Start at: 2018-05-25 14:19:18
End at: 2018-05-25 14:19:48
Local clock offset: 0.058 ms
Remote clock offset: -0.073 ms

Below is generated by plot.py at 2018-05-25 18:40:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 1.222 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.208 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 1.215 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.228 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

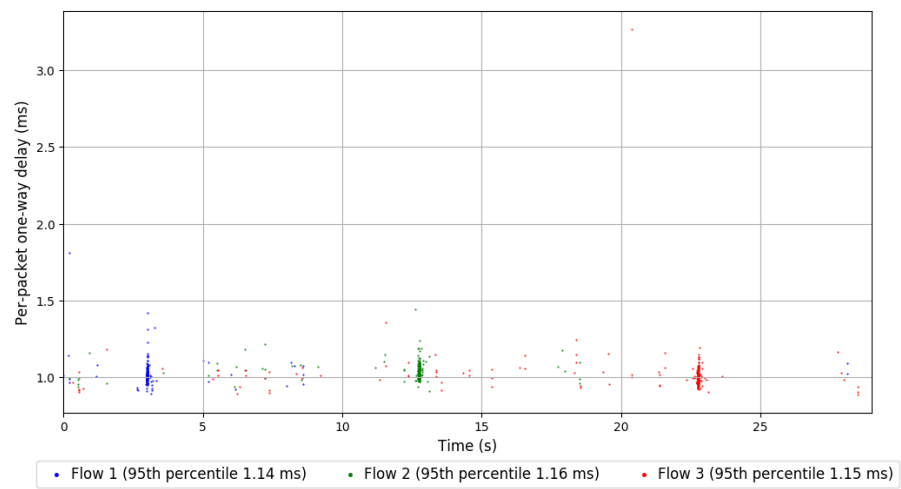
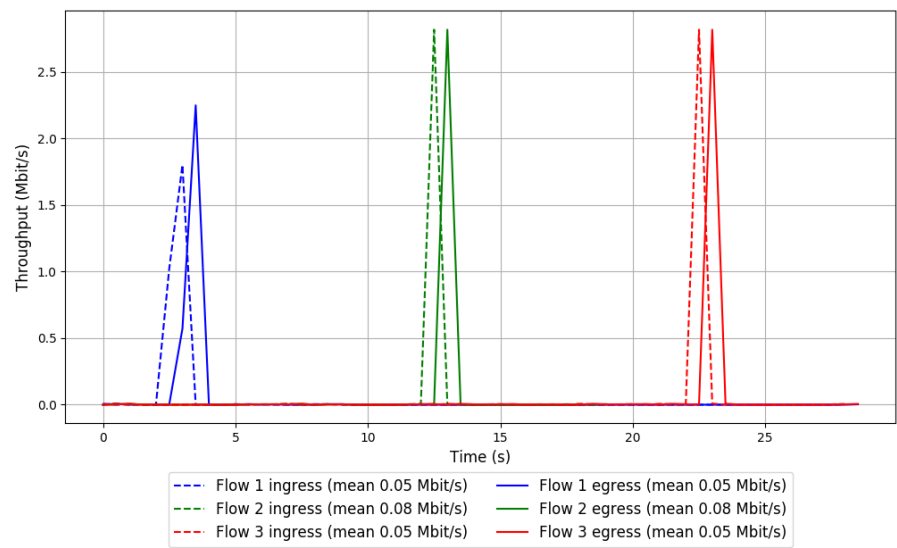


Run 7: Statistics of WebRTC media

Start at: 2018-05-25 14:44:39
End at: 2018-05-25 14:45:09
Local clock offset: 0.037 ms
Remote clock offset: -0.152 ms

Below is generated by plot.py at 2018-05-25 18:40:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 1.149 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.139 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 1.159 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.149 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

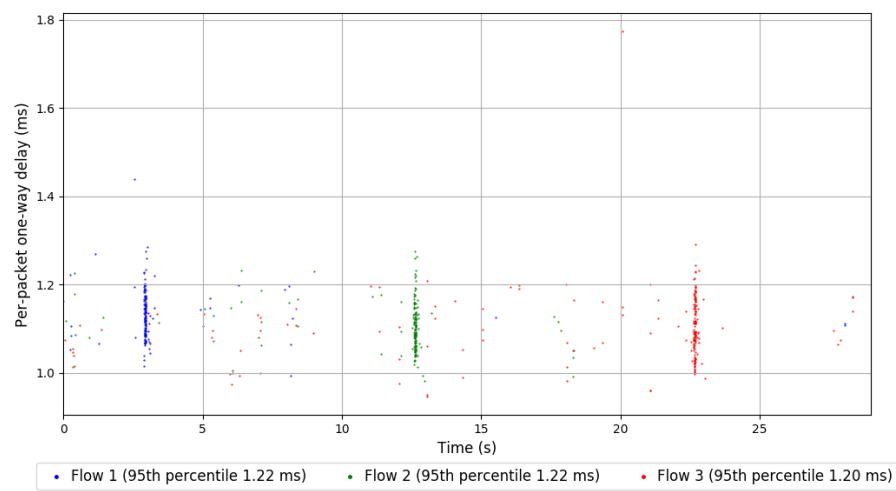
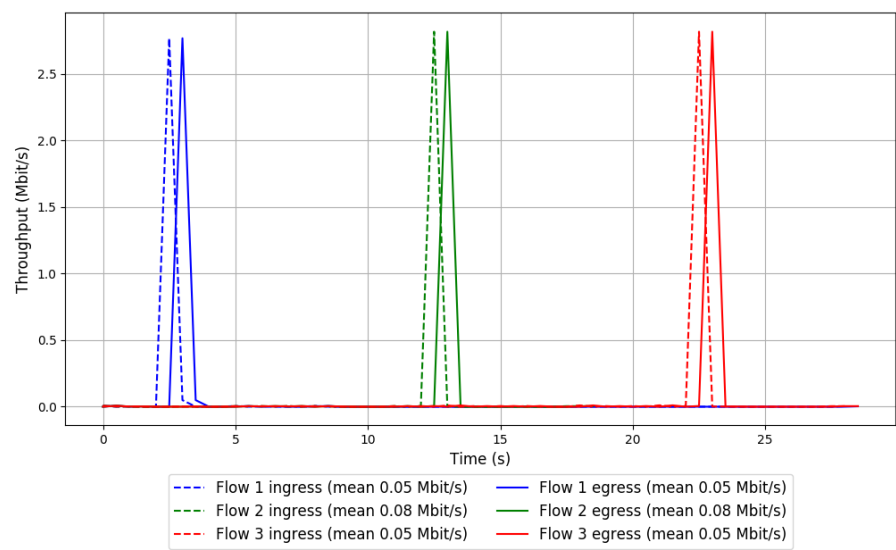


Run 8: Statistics of WebRTC media

Start at: 2018-05-25 15:10:07
End at: 2018-05-25 15:10:37
Local clock offset: 0.039 ms
Remote clock offset: -0.344 ms

Below is generated by plot.py at 2018-05-25 18:40:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 1.212 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.222 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 1.216 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.200 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

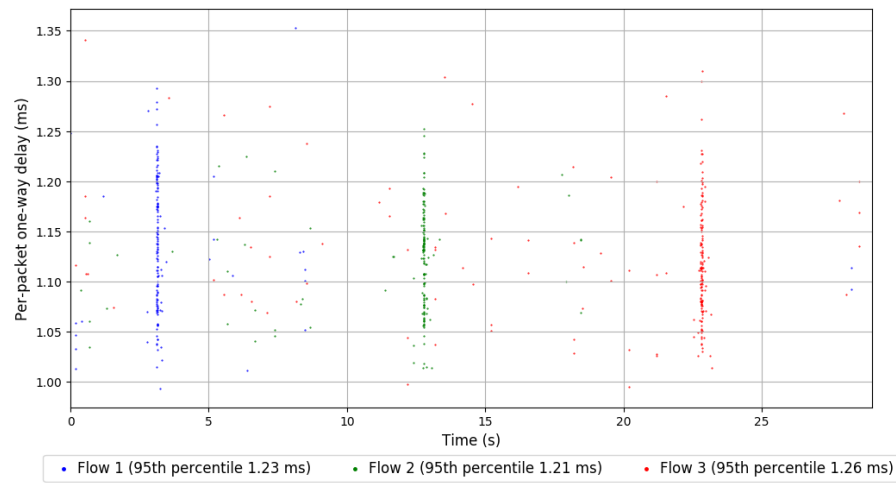
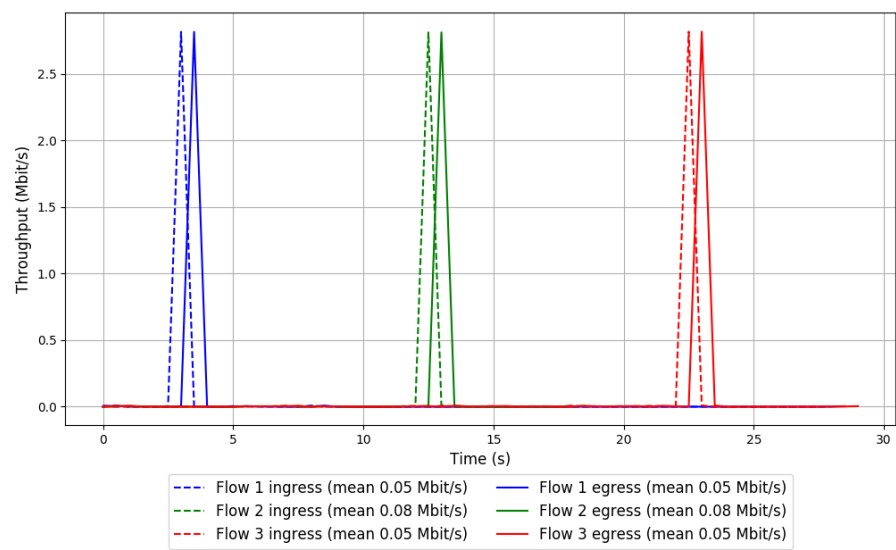


Run 9: Statistics of WebRTC media

Start at: 2018-05-25 15:35:40
End at: 2018-05-25 15:36:10
Local clock offset: 0.159 ms
Remote clock offset: -0.367 ms

Below is generated by plot.py at 2018-05-25 18:40:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 1.227 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.234 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 1.208 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.262 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-25 16:00:54
End at: 2018-05-25 16:01:24
Local clock offset: 0.224 ms
Remote clock offset: -0.266 ms

Below is generated by plot.py at 2018-05-25 18:40:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 1.282 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.344 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 1.228 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.282 ms
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

