

Pantheon Report

Generated at 2018-12-11 15:32:33 (UTC).

Data path: AWS California 1 on `ens5` (*local*) → Stanford on `eno1` (*remote*).

Repeated the test of 19 congestion control schemes 5 times.

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

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

System info:

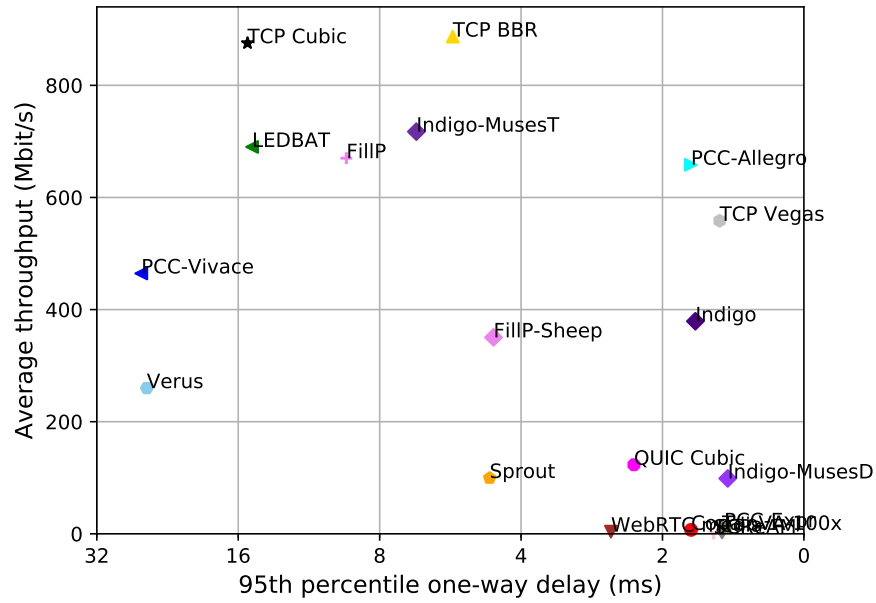
```
Linux 4.15.0-1029-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

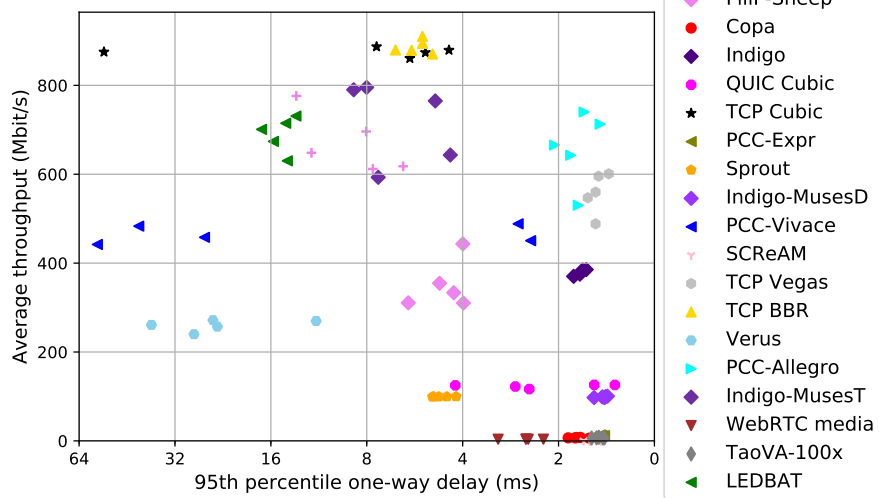
```
branch: muses @ c654af0b7d59d4ef4b914cfac404e1fc2e96dc68
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfc58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 65ac1b19bbefed0c6349ae986009b4fa8643c40a
third_party/muses-refactored @ 31f8f0ba8ef8b1da76c2bc0cd0a7850c33ff64fb
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
```

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

test from AWS California 1 to Stanford, 5 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS California 1 to Stanford, 5 runs of 30s each per scheme
3 flows with 10s interval between flows



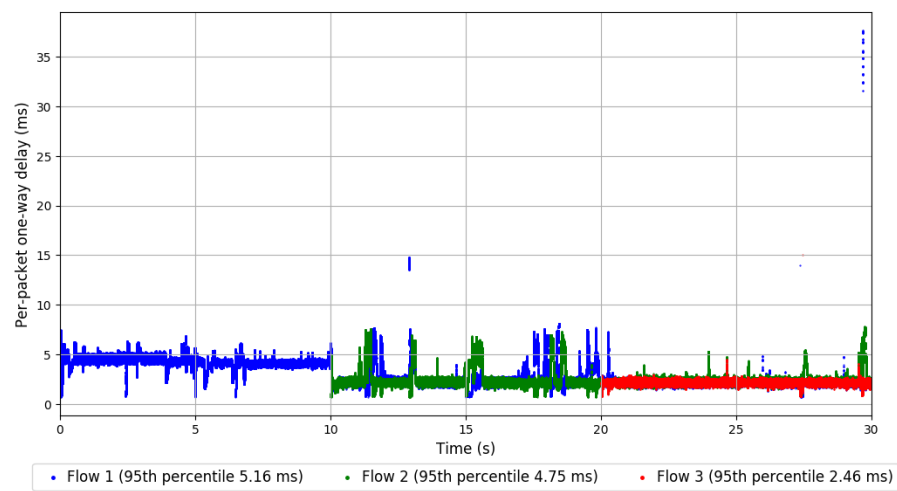
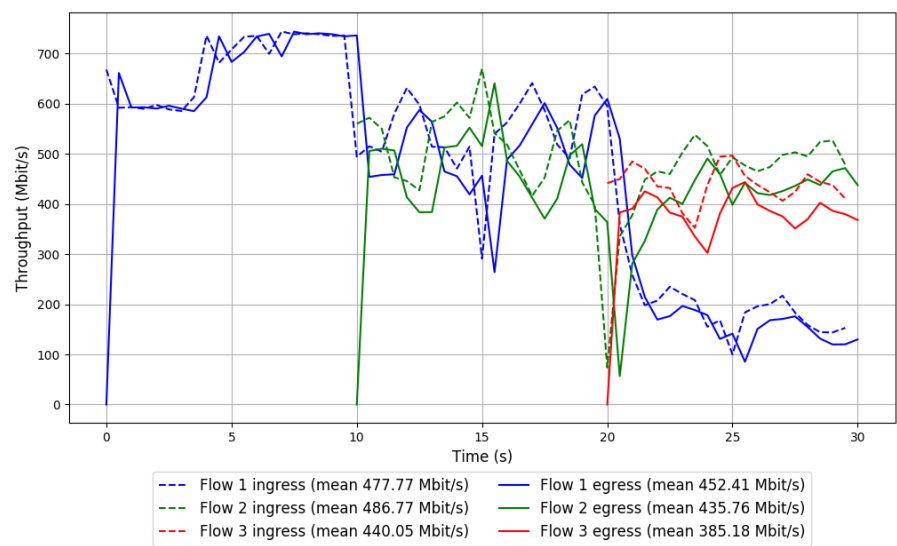
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	498.56	417.47	331.38	5.56	5.70	3.62	5.11	9.33	12.13
Copa	5	0.00	7.79	6.83	1.10	1.61	1.55	98.30	47.72	46.31
TCP Cubic	5	506.01	393.06	323.00	16.43	2.18	2.28	0.07	0.05	0.07
FillP	5	462.37	212.32	200.33	10.50	4.54	4.66	9.01	13.98	19.15
FillP-Sheep	5	308.80	46.47	32.81	4.78	1.85	2.52	3.15	1.68	6.44
Indigo	5	195.74	188.01	180.34	1.38	1.52	1.89	0.00	0.00	0.01
Indigo-MusesD	5	49.06	49.39	51.39	1.08	1.08	1.04	0.00	0.00	0.00
Indigo-MusesT	5	514.45	173.58	278.45	6.03	2.26	3.38	0.67	1.44	1.64
LEDBAT	5	415.37	310.94	238.21	16.13	8.71	7.29	0.14	0.25	0.30
PCC-Allegro	5	381.90	372.41	87.07	1.56	1.56	1.50	0.10	0.09	0.12
PCC-Expr	5	6.14	6.92	5.20	1.16	1.07	1.06	97.47	98.09	86.38
QUIC Cubic	5	64.48	61.52	54.34	1.35	2.29	4.37	0.00	0.00	0.00
SCReAM	5	0.22	0.22	0.22	1.26	1.26	1.27	0.00	0.00	0.00
Sprout	5	49.97	49.87	49.62	4.66	4.69	4.56	0.07	0.09	0.19
TaoVA-100x	5	0.00	5.99	9.29	1.13	1.18	1.09	95.92	24.05	27.69
TCP Vegas	5	264.15	292.68	298.36	1.19	1.17	1.23	0.00	0.01	0.02
Verus	5	141.58	114.73	127.90	17.05	34.45	40.42	2.63	4.70	4.60
PCC-Vivace	5	261.89	225.80	158.67	10.38	39.69	16.50	0.03	0.17	0.21
WebRTC media	5	1.99	1.38	0.50	2.54	2.50	2.60	0.00	0.00	0.06

Run 1: Statistics of TCP BBR

Start at: 2018-12-11 12:23:40
End at: 2018-12-11 12:24:10
Local clock offset: 4.635 ms
Remote clock offset: -3.212 ms

Below is generated by plot.py at 2018-12-11 14:51:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 870.71 Mbit/s
95th percentile per-packet one-way delay: 4.970 ms
Loss rate: 8.18%
-- Flow 1:
Average throughput: 452.41 Mbit/s
95th percentile per-packet one-way delay: 5.157 ms
Loss rate: 5.31%
-- Flow 2:
Average throughput: 435.76 Mbit/s
95th percentile per-packet one-way delay: 4.746 ms
Loss rate: 10.47%
-- Flow 3:
Average throughput: 385.18 Mbit/s
95th percentile per-packet one-way delay: 2.457 ms
Loss rate: 12.47%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-12-11 12:51:14

End at: 2018-12-11 12:51:44

Local clock offset: 4.706 ms

Remote clock offset: 2.911 ms

Below is generated by plot.py at 2018-12-11 14:51:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 910.35 Mbit/s

95th percentile per-packet one-way delay: 5.348 ms

Loss rate: 6.37%

-- Flow 1:

Average throughput: 463.44 Mbit/s

95th percentile per-packet one-way delay: 5.349 ms

Loss rate: 4.93%

-- Flow 2:

Average throughput: 460.37 Mbit/s

95th percentile per-packet one-way delay: 5.706 ms

Loss rate: 7.59%

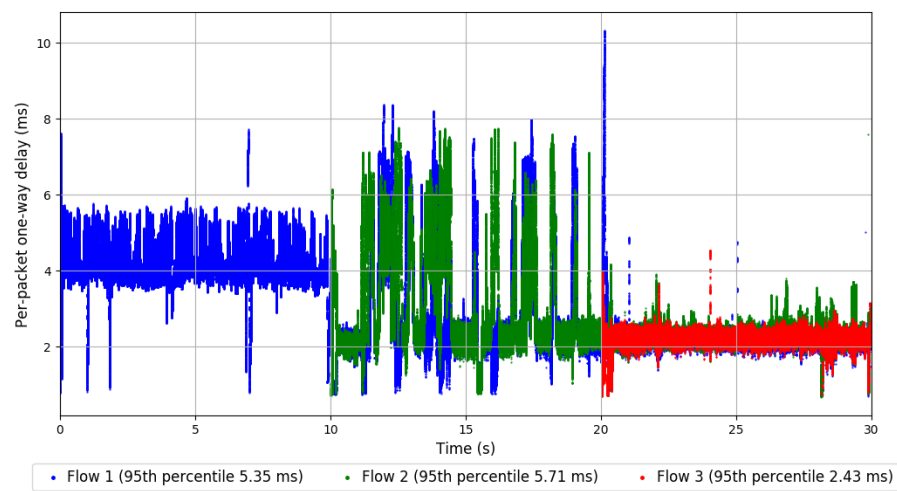
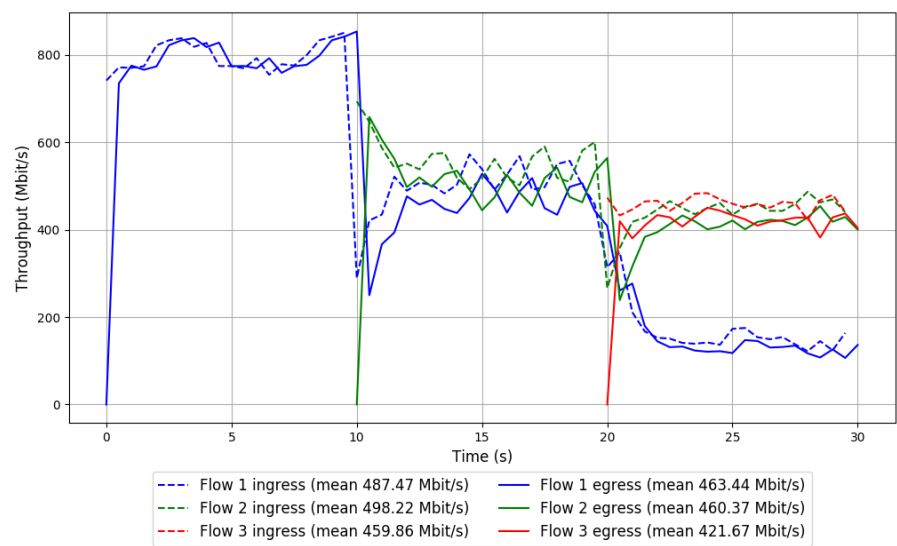
-- Flow 3:

Average throughput: 421.67 Mbit/s

95th percentile per-packet one-way delay: 2.434 ms

Loss rate: 8.31%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-12-11 13:18:52

End at: 2018-12-11 13:19:22

Local clock offset: 4.967 ms

Remote clock offset: 4.498 ms

Below is generated by plot.py at 2018-12-11 14:51:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 894.69 Mbit/s

95th percentile per-packet one-way delay: 5.345 ms

Loss rate: 7.12%

-- Flow 1:

Average throughput: 541.63 Mbit/s

95th percentile per-packet one-way delay: 5.467 ms

Loss rate: 5.36%

-- Flow 2:

Average throughput: 445.22 Mbit/s

95th percentile per-packet one-way delay: 4.870 ms

Loss rate: 8.53%

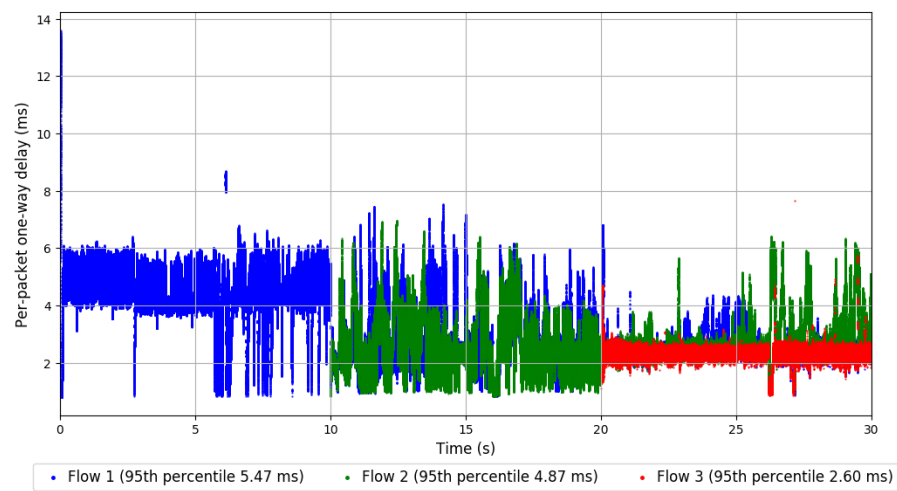
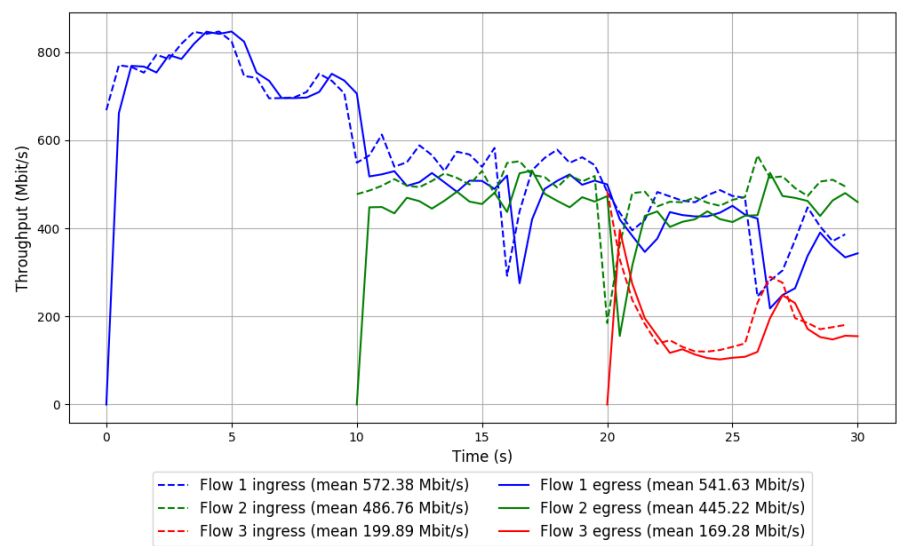
-- Flow 3:

Average throughput: 169.28 Mbit/s

95th percentile per-packet one-way delay: 2.597 ms

Loss rate: 15.31%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-12-11 13:46:22

End at: 2018-12-11 13:46:52

Local clock offset: 5.226 ms

Remote clock offset: 4.495 ms

Below is generated by plot.py at 2018-12-11 14:51:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 879.69 Mbit/s

95th percentile per-packet one-way delay: 6.500 ms

Loss rate: 7.21%

-- Flow 1:

Average throughput: 519.55 Mbit/s

95th percentile per-packet one-way delay: 6.425 ms

Loss rate: 4.75%

-- Flow 2:

Average throughput: 382.53 Mbit/s

95th percentile per-packet one-way delay: 6.751 ms

Loss rate: 9.80%

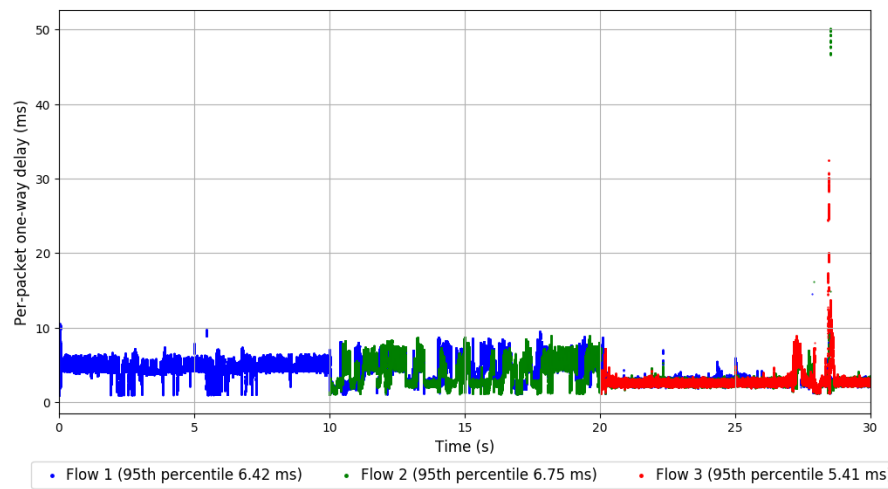
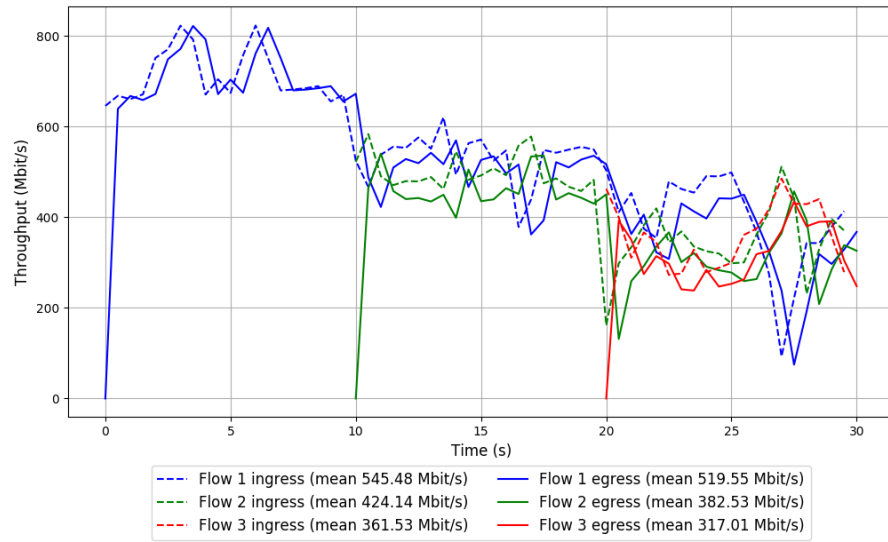
-- Flow 3:

Average throughput: 317.01 Mbit/s

95th percentile per-packet one-way delay: 5.412 ms

Loss rate: 12.31%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-12-11 14:13:56

End at: 2018-12-11 14:14:26

Local clock offset: 5.059 ms

Remote clock offset: -1.37 ms

Below is generated by plot.py at 2018-12-11 14:51:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 879.05 Mbit/s

95th percentile per-packet one-way delay: 5.787 ms

Loss rate: 7.65%

-- Flow 1:

Average throughput: 515.79 Mbit/s

95th percentile per-packet one-way delay: 5.395 ms

Loss rate: 5.18%

-- Flow 2:

Average throughput: 363.47 Mbit/s

95th percentile per-packet one-way delay: 6.451 ms

Loss rate: 10.27%

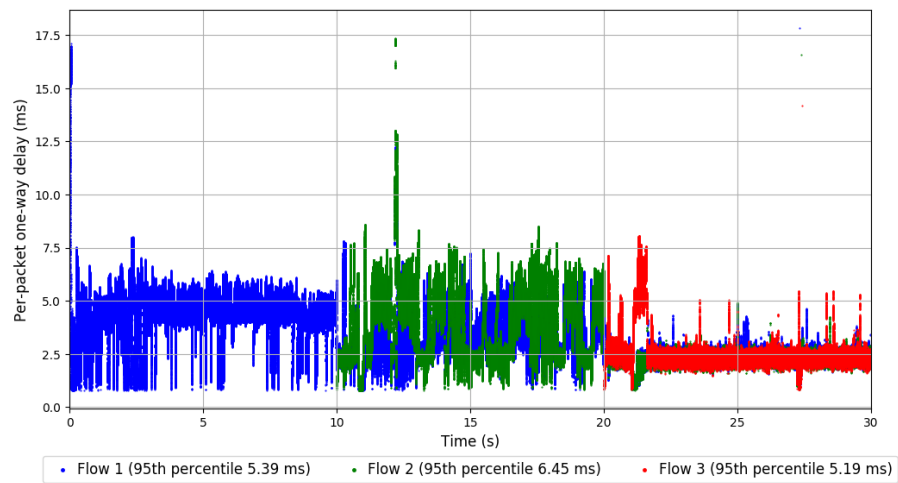
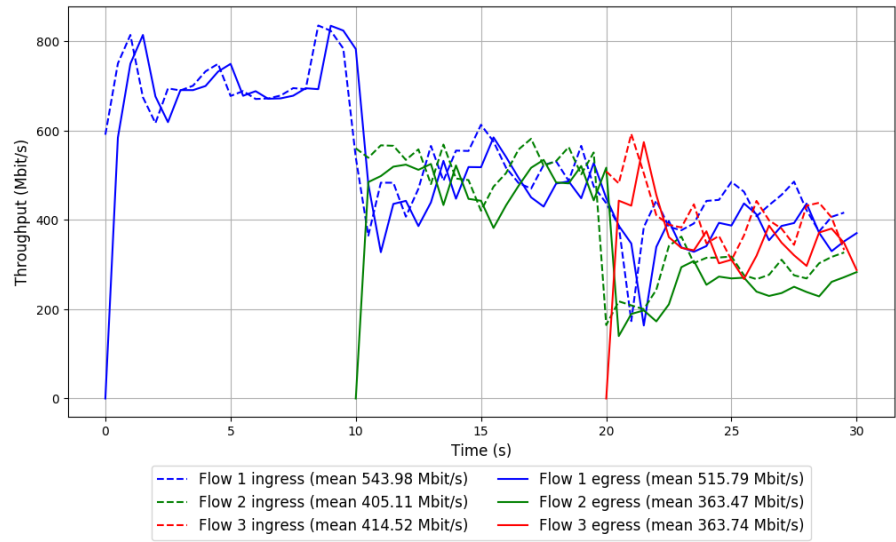
-- Flow 3:

Average throughput: 363.74 Mbit/s

95th percentile per-packet one-way delay: 5.192 ms

Loss rate: 12.25%

Run 5: Report of TCP BBR — Data Link

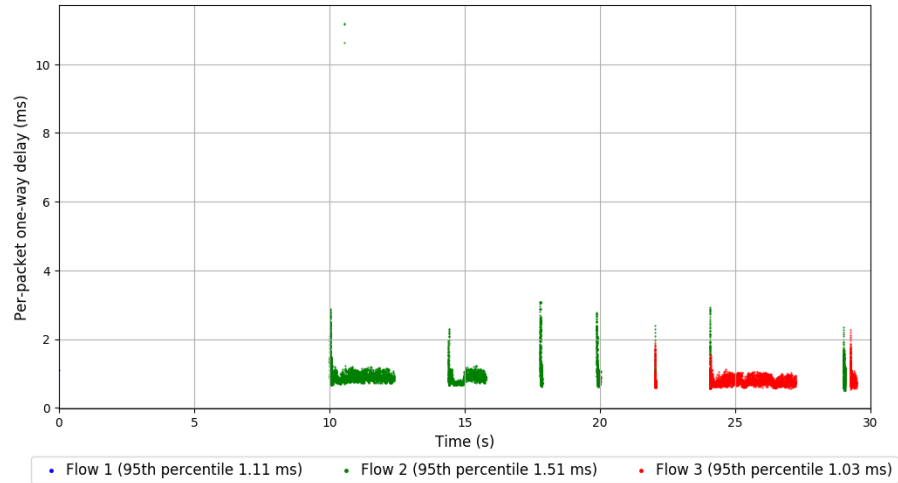
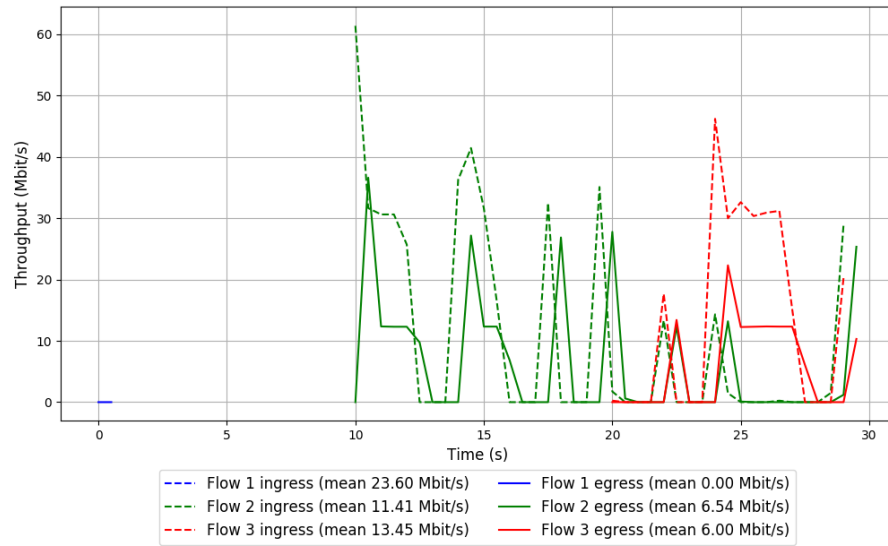


Run 1: Statistics of Copa

Start at: 2018-12-11 12:37:13
End at: 2018-12-11 12:37:43
Local clock offset: 4.56 ms
Remote clock offset: -2.785 ms

Below is generated by plot.py at 2018-12-11 14:51:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.15 Mbit/s
95th percentile per-packet one-way delay: 1.359 ms
Loss rate: 47.37%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 1.112 ms
Loss rate: 98.60%
-- Flow 2:
Average throughput: 6.54 Mbit/s
95th percentile per-packet one-way delay: 1.510 ms
Loss rate: 42.66%
-- Flow 3:
Average throughput: 6.00 Mbit/s
95th percentile per-packet one-way delay: 1.035 ms
Loss rate: 55.39%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-12-11 13:04:47

End at: 2018-12-11 13:05:17

Local clock offset: 4.663 ms

Remote clock offset: 5.005 ms

Below is generated by plot.py at 2018-12-11 14:51:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.72 Mbit/s

95th percentile per-packet one-way delay: 1.651 ms

Loss rate: 39.31%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 1.000 ms

Loss rate: 98.33%

-- Flow 2:

Average throughput: 7.98 Mbit/s

95th percentile per-packet one-way delay: 1.514 ms

Loss rate: 42.14%

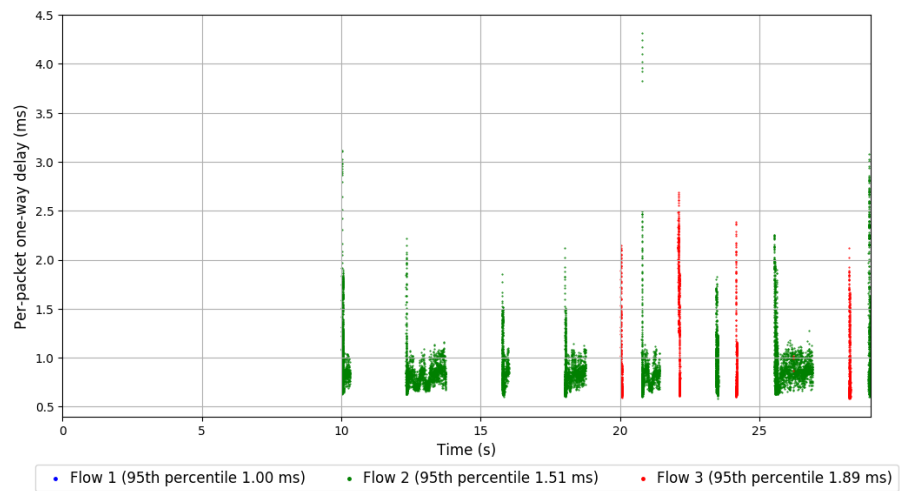
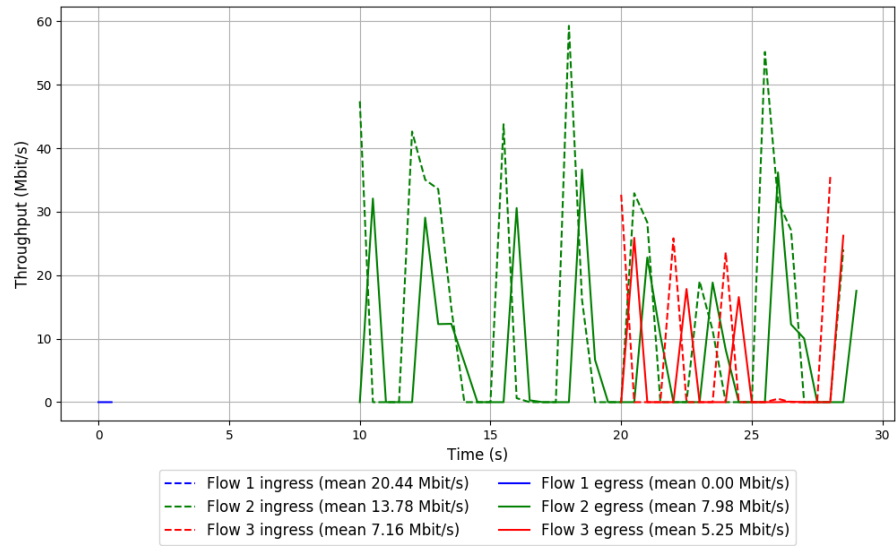
-- Flow 3:

Average throughput: 5.25 Mbit/s

95th percentile per-packet one-way delay: 1.893 ms

Loss rate: 26.71%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-12-11 13:32:25

End at: 2018-12-11 13:32:55

Local clock offset: 5.087 ms

Remote clock offset: 4.177 ms

Below is generated by plot.py at 2018-12-11 14:51:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 1.544 ms

Loss rate: 54.26%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 1.174 ms

Loss rate: 98.33%

-- Flow 2:

Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 1.476 ms

Loss rate: 56.19%

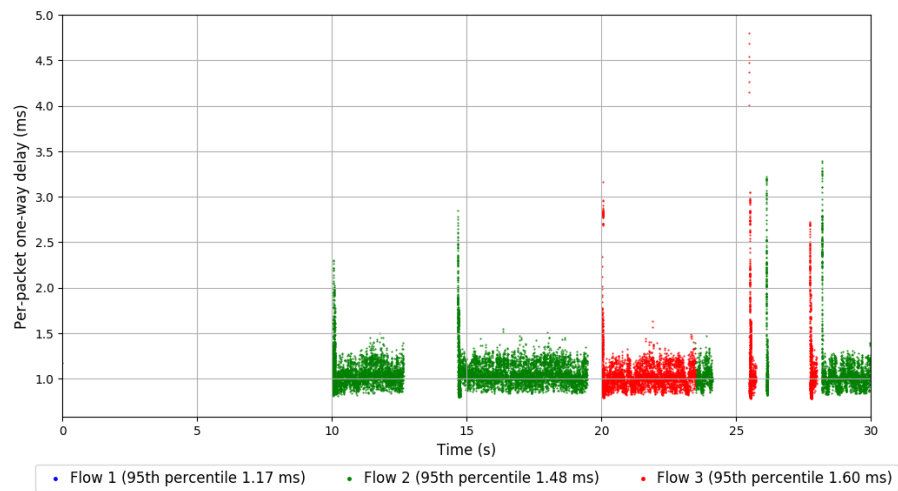
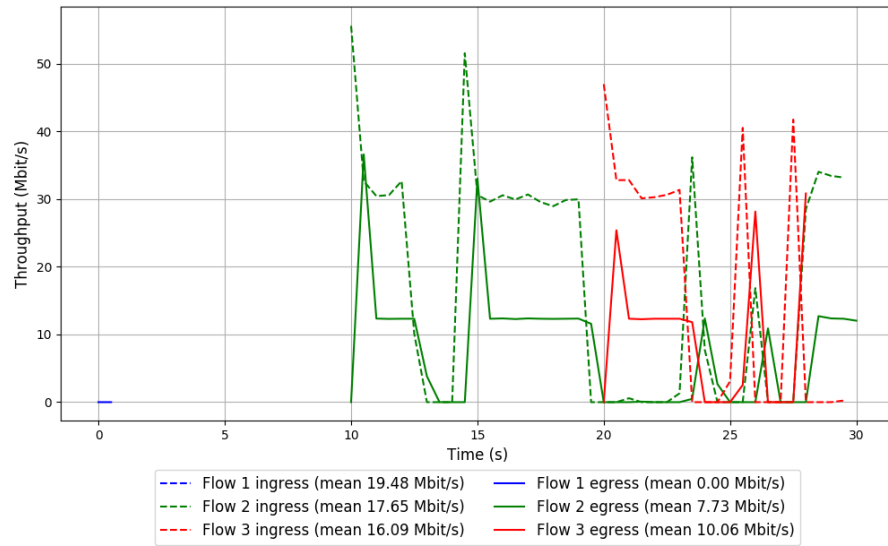
-- Flow 3:

Average throughput: 10.06 Mbit/s

95th percentile per-packet one-way delay: 1.604 ms

Loss rate: 50.01%

Run 3: Report of Copa — Data Link

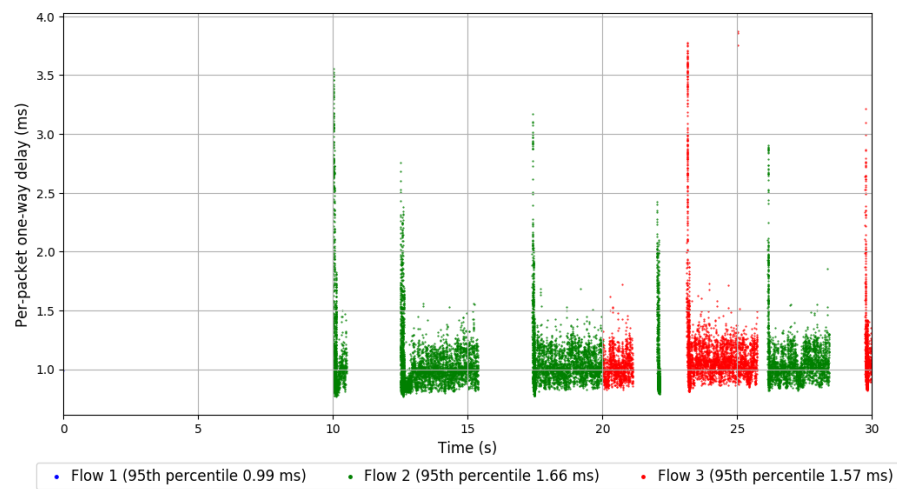
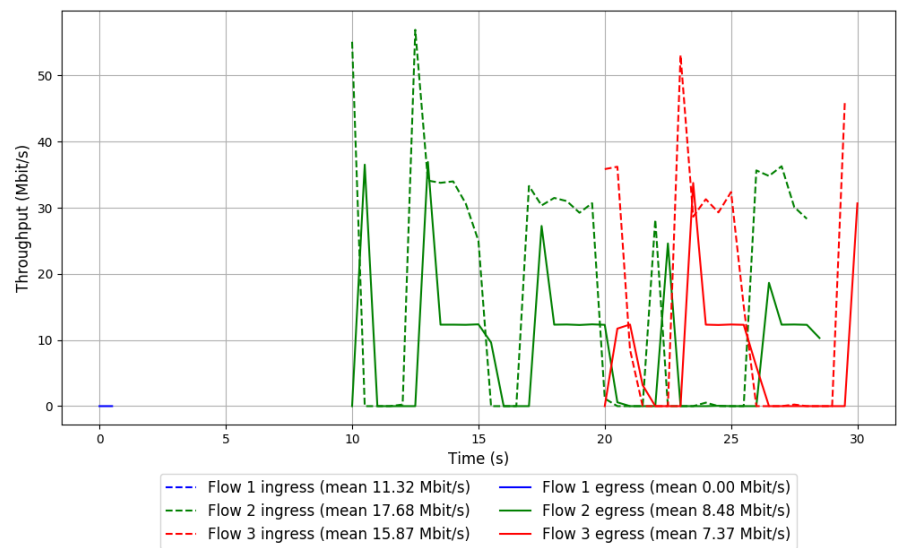


Run 4: Statistics of Copa

Start at: 2018-12-11 13:59:53
End at: 2018-12-11 14:00:23
Local clock offset: 5.307 ms
Remote clock offset: -0.013 ms

Below is generated by plot.py at 2018-12-11 14:51:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.66 Mbit/s
95th percentile per-packet one-way delay: 1.625 ms
Loss rate: 52.52%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 0.987 ms
Loss rate: 97.92%
-- Flow 2:
Average throughput: 8.48 Mbit/s
95th percentile per-packet one-way delay: 1.656 ms
Loss rate: 52.00%
-- Flow 3:
Average throughput: 7.37 Mbit/s
95th percentile per-packet one-way delay: 1.569 ms
Loss rate: 53.59%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-12-11 14:27:37

End at: 2018-12-11 14:28:07

Local clock offset: 4.8 ms

Remote clock offset: -1.03 ms

Below is generated by plot.py at 2018-12-11 14:51:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.80 Mbit/s

95th percentile per-packet one-way delay: 1.799 ms

Loss rate: 45.68%

-- Flow 1:

Average throughput: 0.00 Mbit/s

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

Loss rate: 98.33%

-- Flow 2:

Average throughput: 8.21 Mbit/s

95th percentile per-packet one-way delay: 1.893 ms

Loss rate: 45.60%

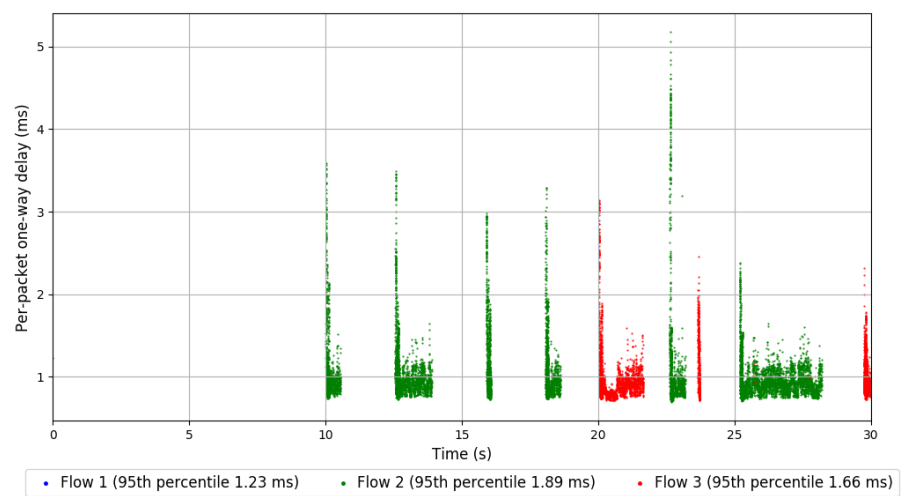
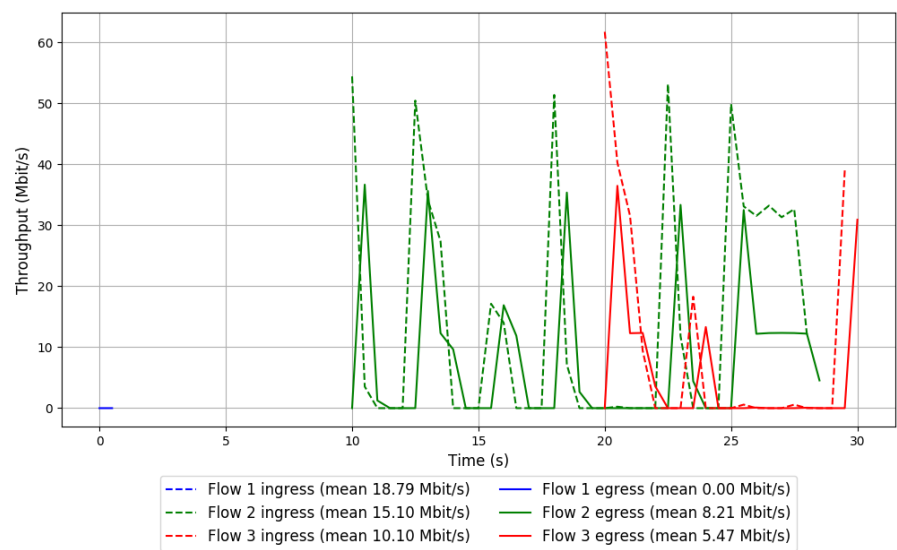
-- Flow 3:

Average throughput: 5.47 Mbit/s

95th percentile per-packet one-way delay: 1.655 ms

Loss rate: 45.87%

Run 5: Report of Copa — Data Link

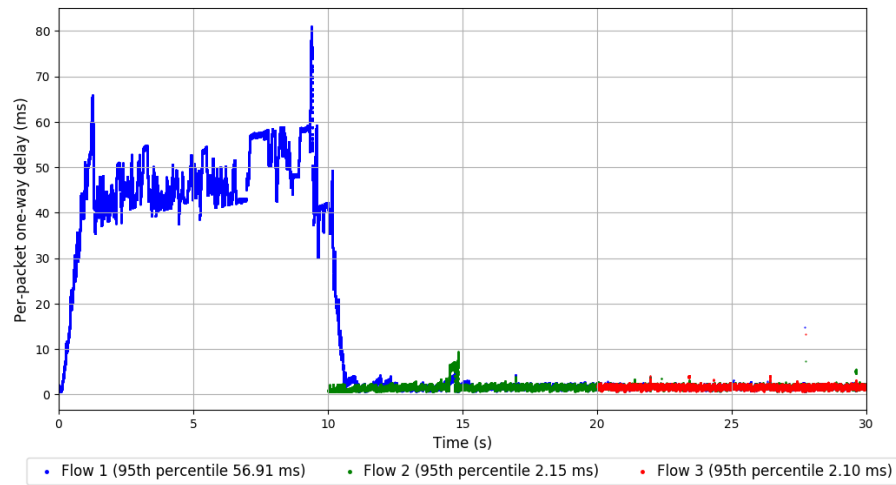
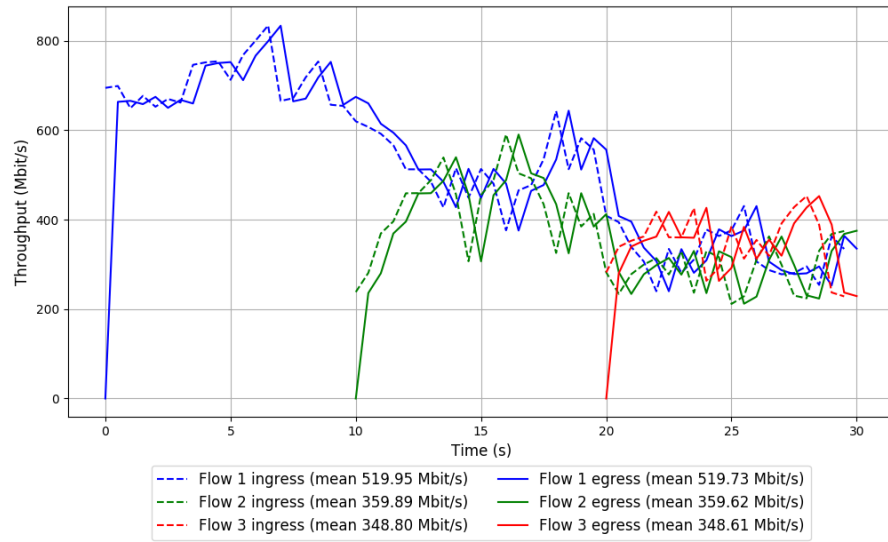


Run 1: Statistics of TCP Cubic

Start at: 2018-12-11 12:34:13
End at: 2018-12-11 12:34:43
Local clock offset: 4.599 ms
Remote clock offset: -2.821 ms

Below is generated by plot.py at 2018-12-11 14:51:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 875.20 Mbit/s
95th percentile per-packet one-way delay: 53.475 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 519.73 Mbit/s
95th percentile per-packet one-way delay: 56.909 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 359.62 Mbit/s
95th percentile per-packet one-way delay: 2.147 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 348.61 Mbit/s
95th percentile per-packet one-way delay: 2.103 ms
Loss rate: 0.06%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-12-11 13:01:48

End at: 2018-12-11 13:02:18

Local clock offset: 4.676 ms

Remote clock offset: 4.689 ms

Below is generated by plot.py at 2018-12-11 14:51:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 860.87 Mbit/s

95th percentile per-packet one-way delay: 5.859 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 490.23 Mbit/s

95th percentile per-packet one-way delay: 6.358 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 403.62 Mbit/s

95th percentile per-packet one-way delay: 2.106 ms

Loss rate: 0.05%

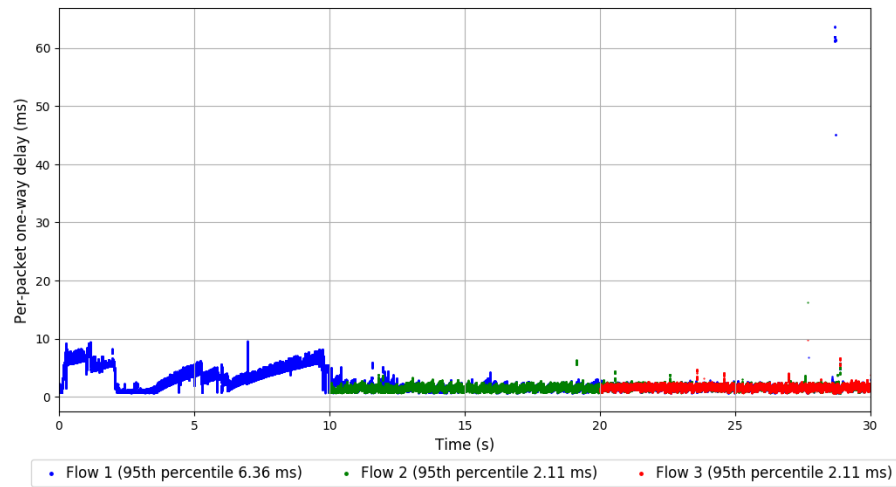
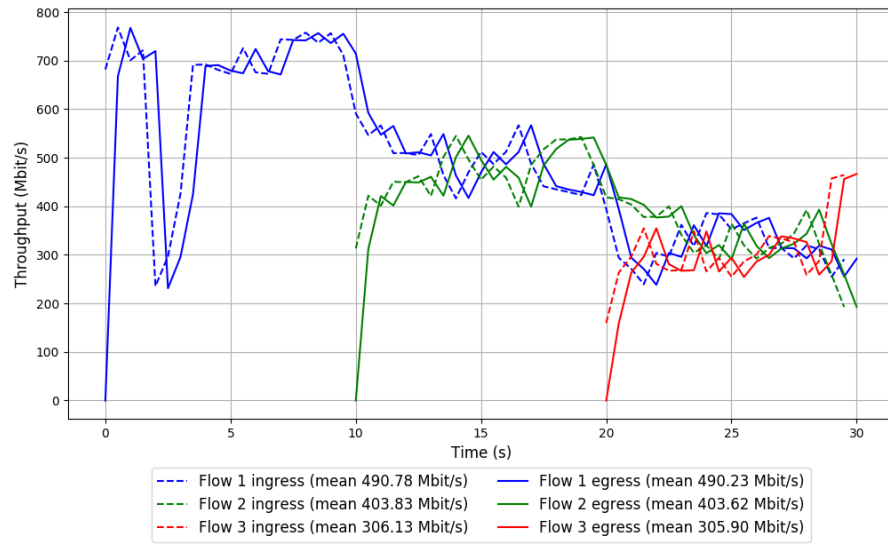
-- Flow 3:

Average throughput: 305.90 Mbit/s

95th percentile per-packet one-way delay: 2.112 ms

Loss rate: 0.06%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-12-11 13:29:25

End at: 2018-12-11 13:29:55

Local clock offset: 5.057 ms

Remote clock offset: 4.026 ms

Below is generated by plot.py at 2018-12-11 14:51:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 887.06 Mbit/s

95th percentile per-packet one-way delay: 7.452 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 513.30 Mbit/s

95th percentile per-packet one-way delay: 8.226 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 399.94 Mbit/s

95th percentile per-packet one-way delay: 2.161 ms

Loss rate: 0.04%

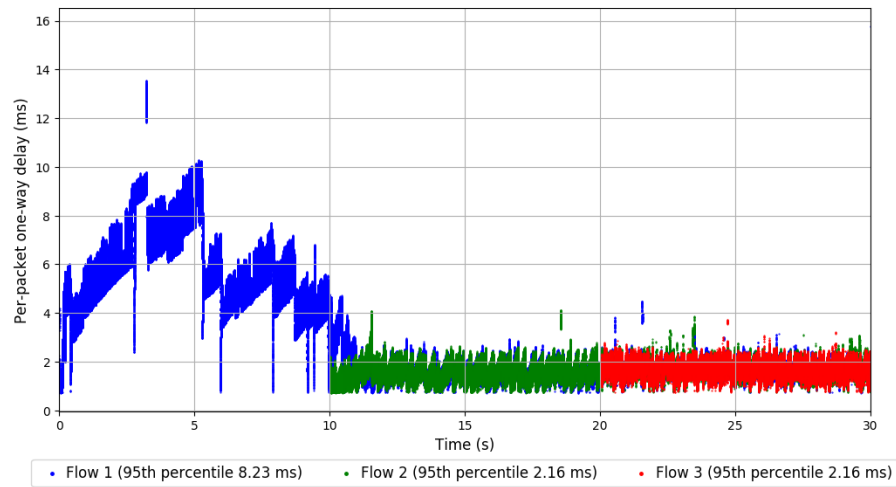
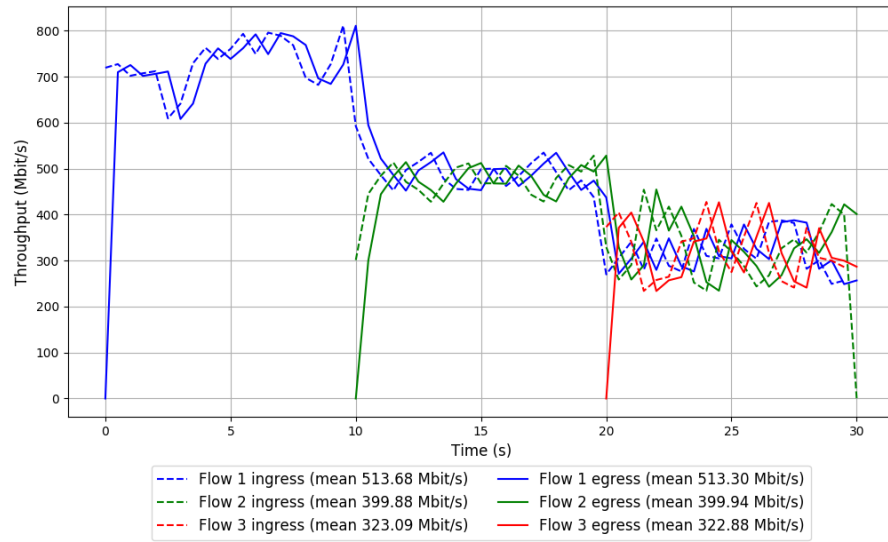
-- Flow 3:

Average throughput: 322.88 Mbit/s

95th percentile per-packet one-way delay: 2.162 ms

Loss rate: 0.07%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-12-11 13:56:53

End at: 2018-12-11 13:57:23

Local clock offset: 5.309 ms

Remote clock offset: 0.528 ms

Below is generated by plot.py at 2018-12-11 15:00:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 879.33 Mbit/s

95th percentile per-packet one-way delay: 4.416 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 508.85 Mbit/s

95th percentile per-packet one-way delay: 4.751 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 397.52 Mbit/s

95th percentile per-packet one-way delay: 2.219 ms

Loss rate: 0.04%

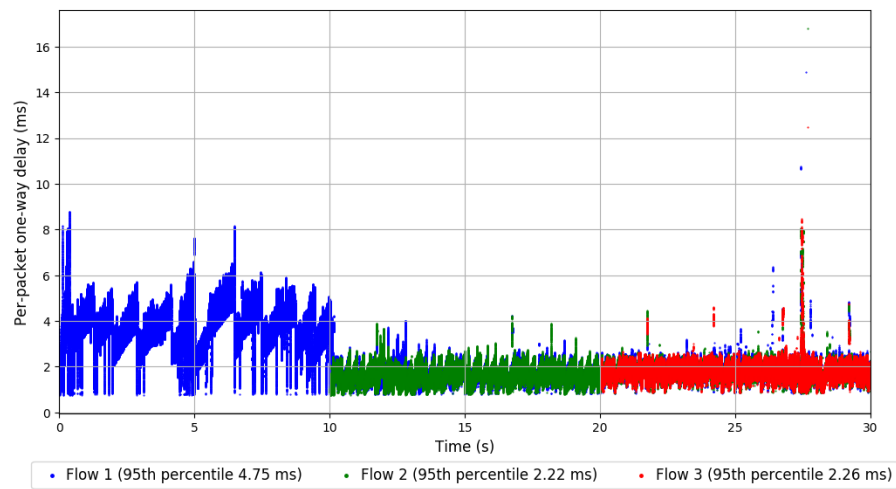
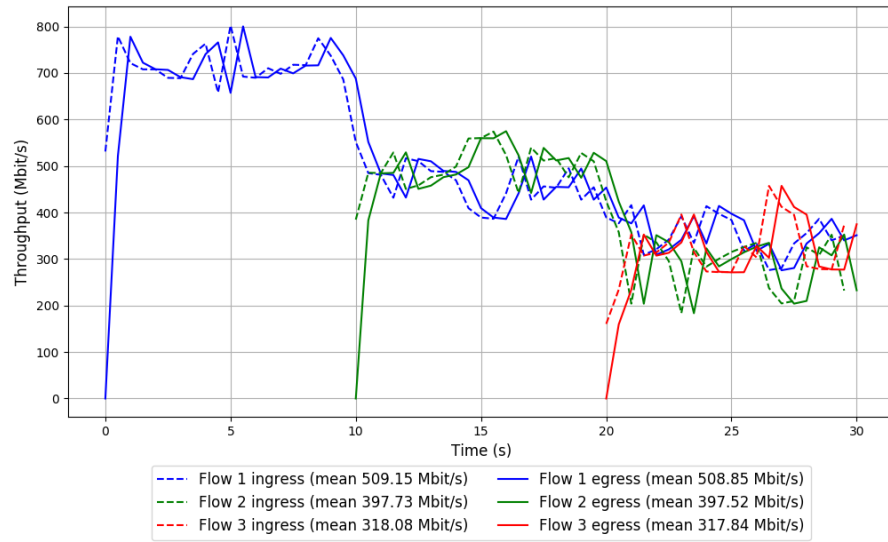
-- Flow 3:

Average throughput: 317.84 Mbit/s

95th percentile per-packet one-way delay: 2.257 ms

Loss rate: 0.07%

Run 4: Report of TCP Cubic — Data Link

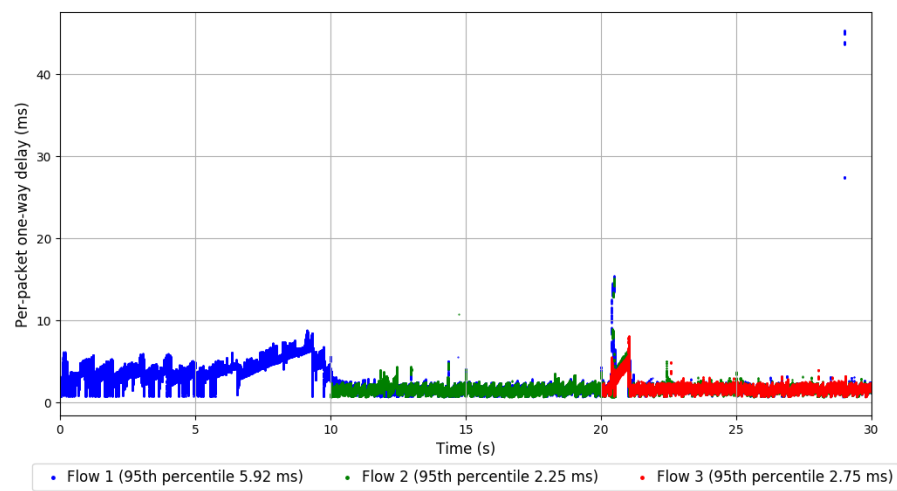
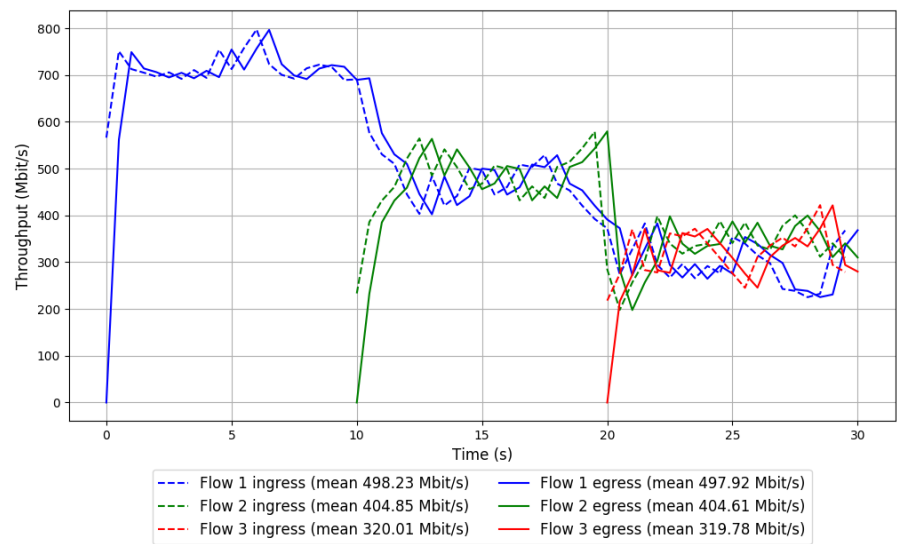


Run 5: Statistics of TCP Cubic

Start at: 2018-12-11 14:24:37
End at: 2018-12-11 14:25:07
Local clock offset: 4.806 ms
Remote clock offset: -1.211 ms

Below is generated by plot.py at 2018-12-11 15:00:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 873.81 Mbit/s
95th percentile per-packet one-way delay: 5.235 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 497.92 Mbit/s
95th percentile per-packet one-way delay: 5.916 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 404.61 Mbit/s
95th percentile per-packet one-way delay: 2.246 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 319.78 Mbit/s
95th percentile per-packet one-way delay: 2.755 ms
Loss rate: 0.07%

Run 5: Report of TCP Cubic — Data Link

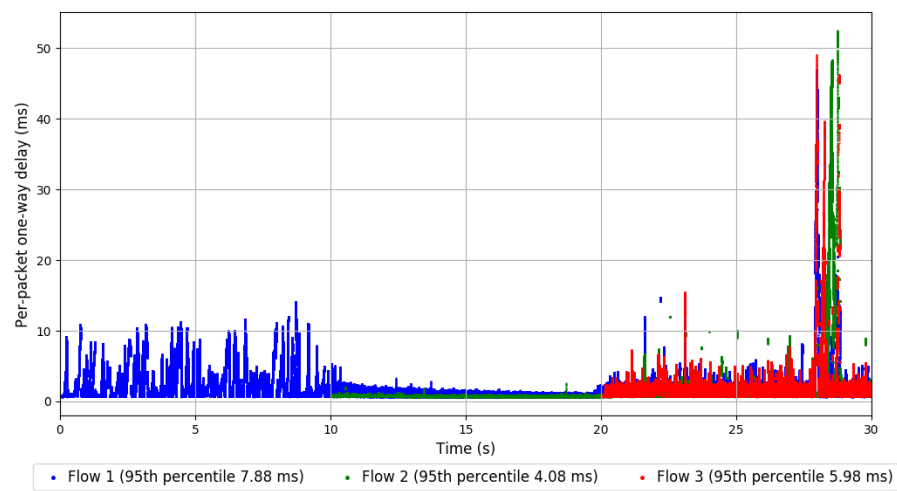
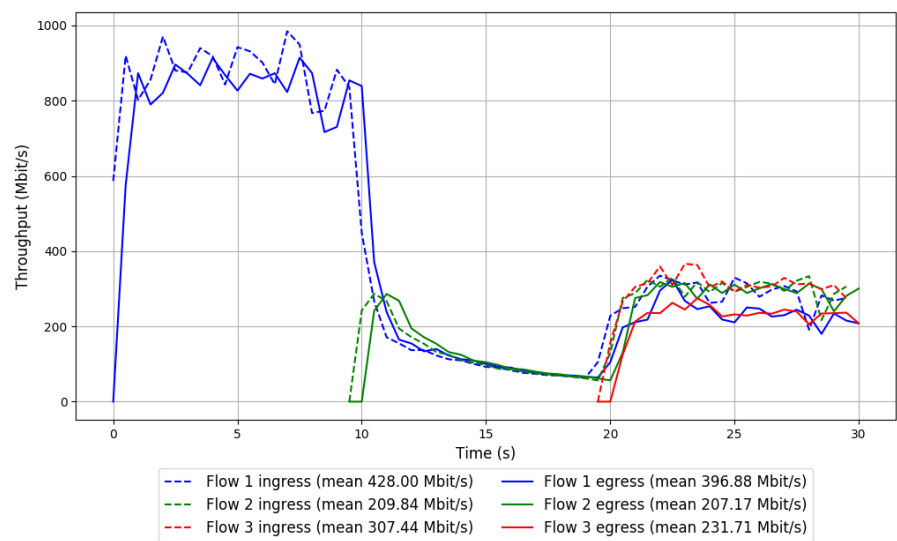


Run 1: Statistics of FillP

Start at: 2018-12-11 12:25:30
End at: 2018-12-11 12:26:00
Local clock offset: 4.644 ms
Remote clock offset: -3.171 ms

Below is generated by plot.py at 2018-12-11 15:00:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 611.92 Mbit/s
95th percentile per-packet one-way delay: 7.655 ms
Loss rate: 8.66%
-- Flow 1:
Average throughput: 396.88 Mbit/s
95th percentile per-packet one-way delay: 7.883 ms
Loss rate: 7.27%
-- Flow 2:
Average throughput: 207.17 Mbit/s
95th percentile per-packet one-way delay: 4.084 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 231.71 Mbit/s
95th percentile per-packet one-way delay: 5.982 ms
Loss rate: 24.63%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-12-11 12:53:05

End at: 2018-12-11 12:53:35

Local clock offset: 4.706 ms

Remote clock offset: 3.236 ms

Below is generated by plot.py at 2018-12-11 15:00:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 648.26 Mbit/s

95th percentile per-packet one-way delay: 11.931 ms

Loss rate: 6.45%

-- Flow 1:

Average throughput: 525.76 Mbit/s

95th percentile per-packet one-way delay: 12.669 ms

Loss rate: 4.61%

-- Flow 2:

Average throughput: 124.58 Mbit/s

95th percentile per-packet one-way delay: 4.594 ms

Loss rate: 13.76%

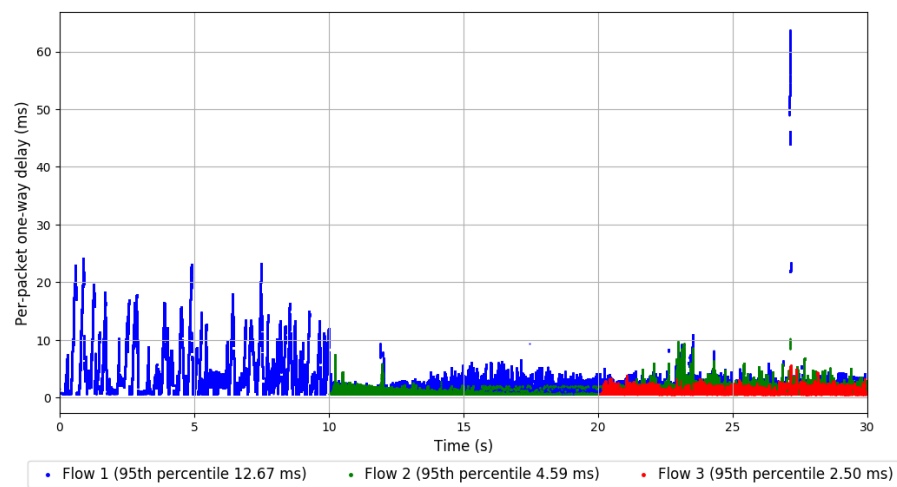
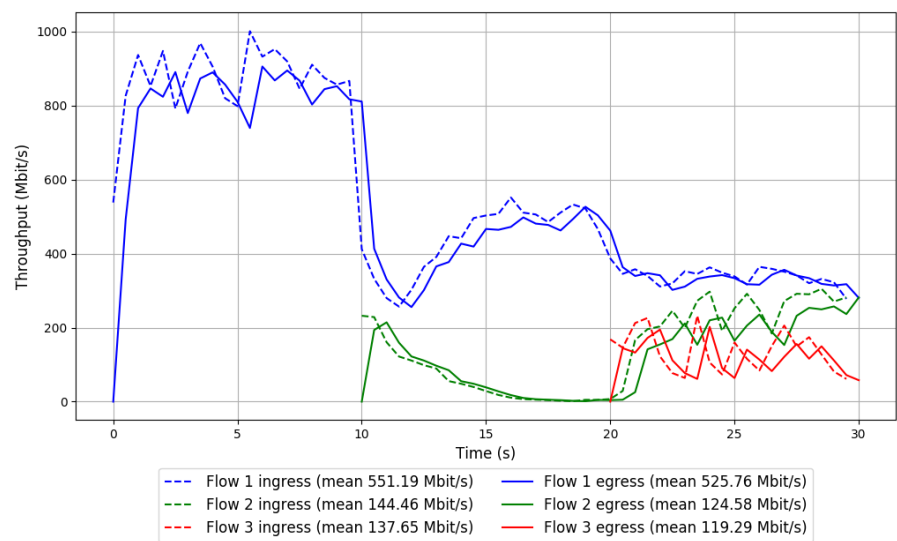
-- Flow 3:

Average throughput: 119.29 Mbit/s

95th percentile per-packet one-way delay: 2.503 ms

Loss rate: 13.35%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-12-11 13:20:41

End at: 2018-12-11 13:21:11

Local clock offset: 4.994 ms

Remote clock offset: 4.273 ms

Below is generated by plot.py at 2018-12-11 15:00:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 696.22 Mbit/s

95th percentile per-packet one-way delay: 8.037 ms

Loss rate: 12.55%

-- Flow 1:

Average throughput: 459.28 Mbit/s

95th percentile per-packet one-way delay: 9.571 ms

Loss rate: 9.28%

-- Flow 2:

Average throughput: 285.24 Mbit/s

95th percentile per-packet one-way delay: 4.774 ms

Loss rate: 19.80%

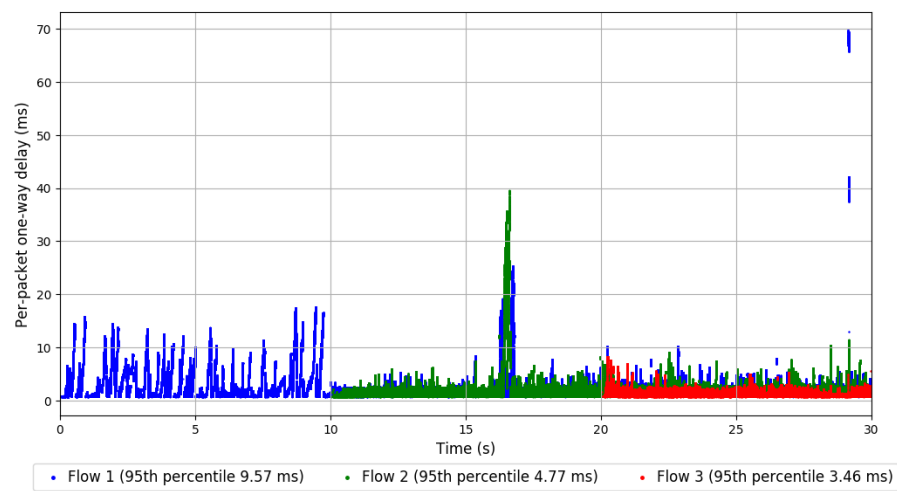
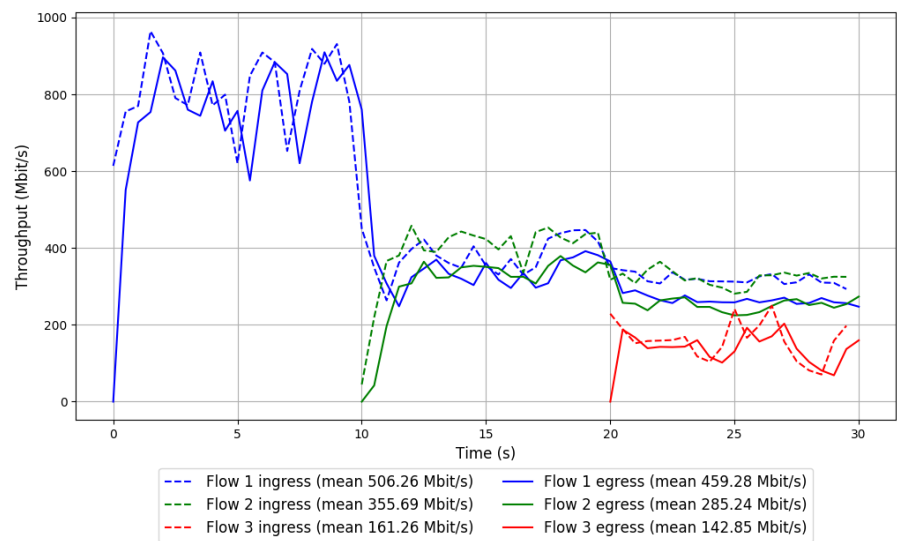
-- Flow 3:

Average throughput: 142.85 Mbit/s

95th percentile per-packet one-way delay: 3.455 ms

Loss rate: 11.40%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-12-11 13:48:11

End at: 2018-12-11 13:48:41

Local clock offset: 5.245 ms

Remote clock offset: 3.517 ms

Below is generated by plot.py at 2018-12-11 15:00:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 617.87 Mbit/s

95th percentile per-packet one-way delay: 6.150 ms

Loss rate: 13.19%

-- Flow 1:

Average throughput: 435.51 Mbit/s

95th percentile per-packet one-way delay: 6.635 ms

Loss rate: 10.24%

-- Flow 2:

Average throughput: 144.99 Mbit/s

95th percentile per-packet one-way delay: 3.913 ms

Loss rate: 15.14%

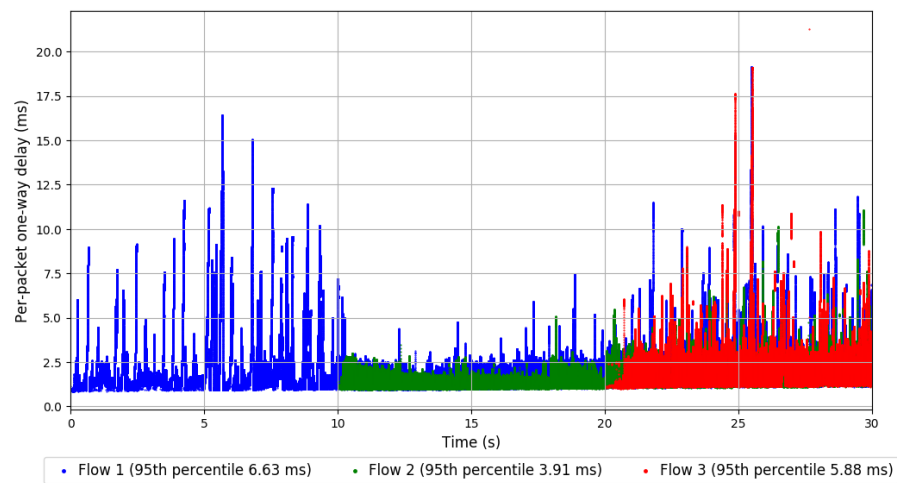
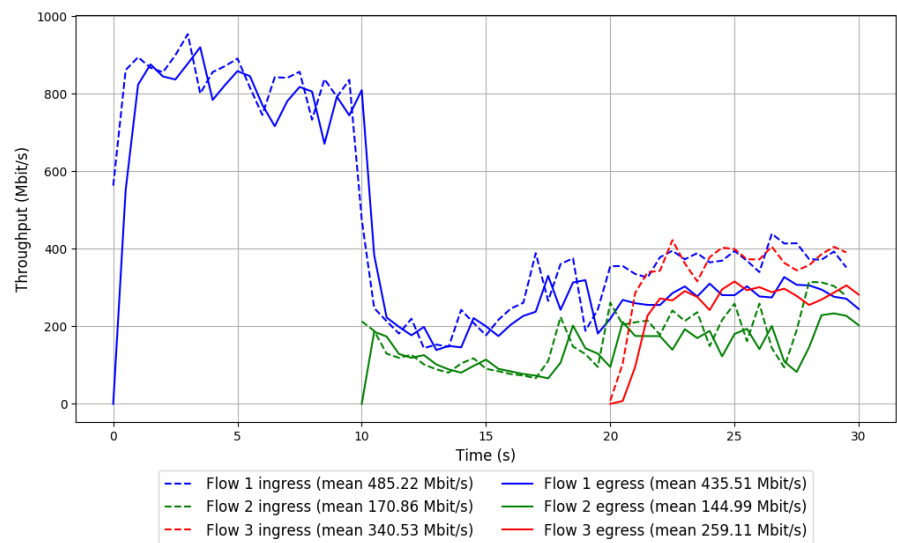
-- Flow 3:

Average throughput: 259.11 Mbit/s

95th percentile per-packet one-way delay: 5.876 ms

Loss rate: 23.89%

Run 4: Report of FillP — Data Link

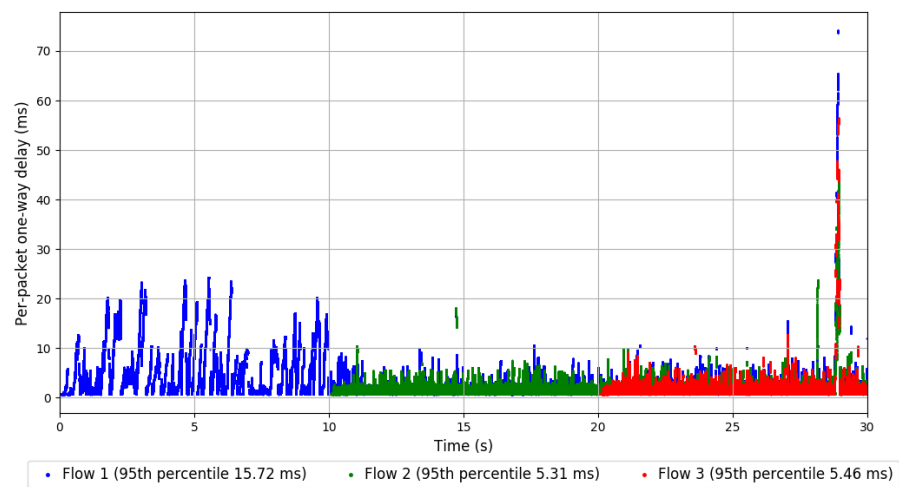
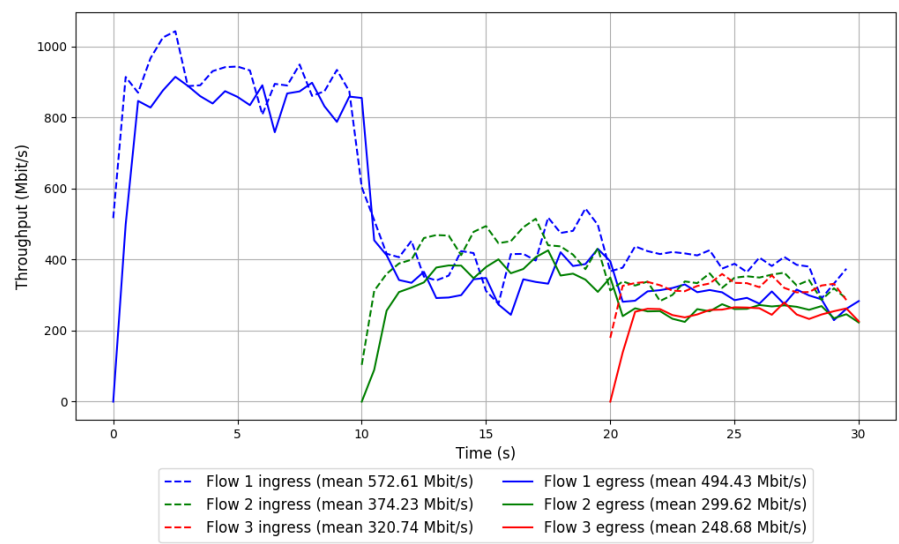


Run 5: Statistics of FillP

Start at: 2018-12-11 14:15:45
End at: 2018-12-11 14:16:15
Local clock offset: 4.971 ms
Remote clock offset: -1.644 ms

Below is generated by plot.py at 2018-12-11 15:02:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 776.15 Mbit/s
95th percentile per-packet one-way delay: 13.310 ms
Loss rate: 16.34%
-- Flow 1:
Average throughput: 494.43 Mbit/s
95th percentile per-packet one-way delay: 15.720 ms
Loss rate: 13.63%
-- Flow 2:
Average throughput: 299.62 Mbit/s
95th percentile per-packet one-way delay: 5.313 ms
Loss rate: 19.94%
-- Flow 3:
Average throughput: 248.68 Mbit/s
95th percentile per-packet one-way delay: 5.460 ms
Loss rate: 22.47%

Run 5: Report of FillP — Data Link

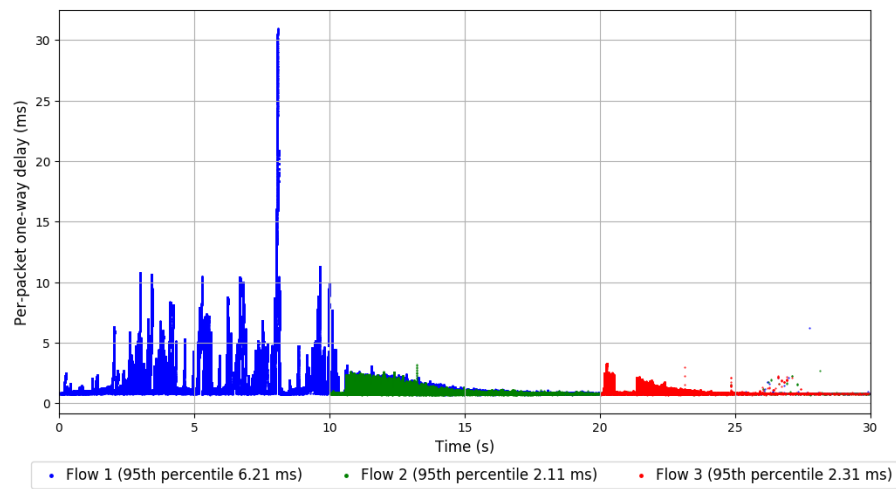
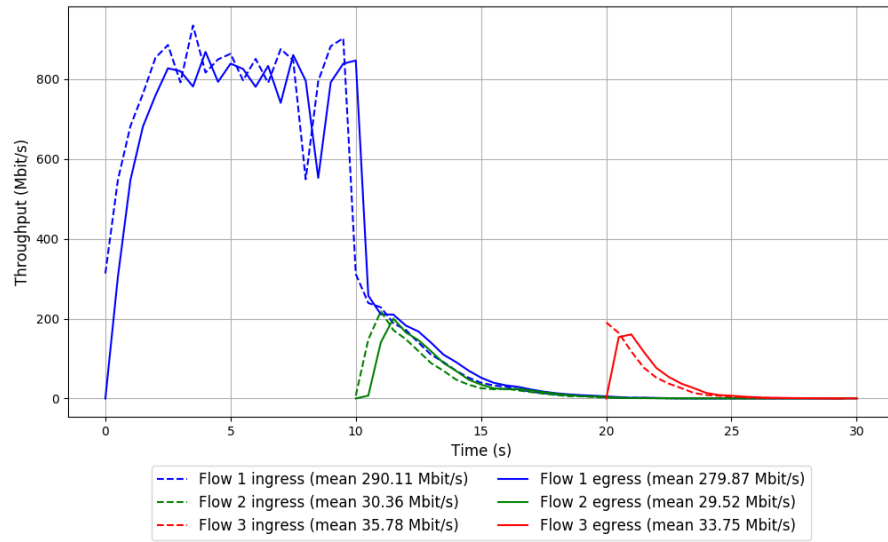


Run 1: Statistics of FillP-Sheep

Start at: 2018-12-11 12:30:02
End at: 2018-12-11 12:30:32
Local clock offset: 4.616 ms
Remote clock offset: -2.907 ms

Below is generated by plot.py at 2018-12-11 15:02:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 310.69 Mbit/s
95th percentile per-packet one-way delay: 5.926 ms
Loss rate: 3.56%
-- Flow 1:
Average throughput: 279.87 Mbit/s
95th percentile per-packet one-way delay: 6.213 ms
Loss rate: 3.53%
-- Flow 2:
Average throughput: 29.52 Mbit/s
95th percentile per-packet one-way delay: 2.114 ms
Loss rate: 2.78%
-- Flow 3:
Average throughput: 33.75 Mbit/s
95th percentile per-packet one-way delay: 2.305 ms
Loss rate: 5.68%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-12-11 12:57:37

End at: 2018-12-11 12:58:07

Local clock offset: 4.695 ms

Remote clock offset: 3.986 ms

Below is generated by plot.py at 2018-12-11 15:02:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 310.15 Mbit/s

95th percentile per-packet one-way delay: 3.978 ms

Loss rate: 2.73%

-- Flow 1:

Average throughput: 291.63 Mbit/s

95th percentile per-packet one-way delay: 4.020 ms

Loss rate: 2.84%

-- Flow 2:

Average throughput: 9.46 Mbit/s

95th percentile per-packet one-way delay: 1.074 ms

Loss rate: 0.23%

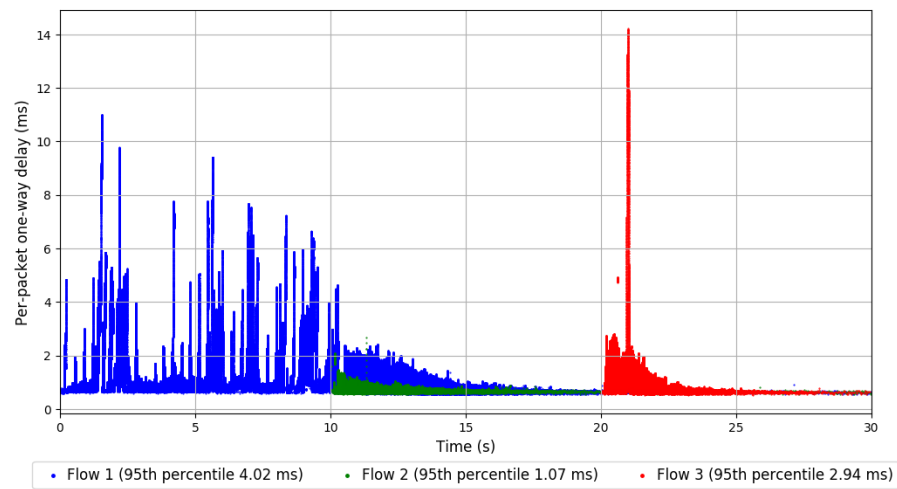
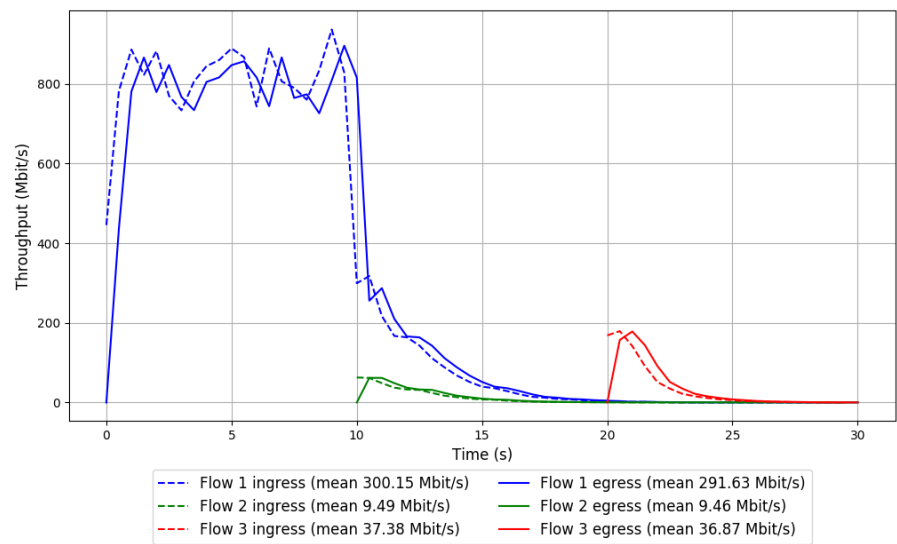
-- Flow 3:

Average throughput: 36.87 Mbit/s

95th percentile per-packet one-way delay: 2.937 ms

Loss rate: 1.37%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-12-11 13:25:13

End at: 2018-12-11 13:25:43

Local clock offset: 5.045 ms

Remote clock offset: 4.05 ms

Below is generated by plot.py at 2018-12-11 15:04:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 354.70 Mbit/s

95th percentile per-packet one-way delay: 4.726 ms

Loss rate: 2.80%

-- Flow 1:

Average throughput: 324.49 Mbit/s

95th percentile per-packet one-way delay: 4.874 ms

Loss rate: 2.67%

-- Flow 2:

Average throughput: 29.55 Mbit/s

95th percentile per-packet one-way delay: 1.714 ms

Loss rate: 2.20%

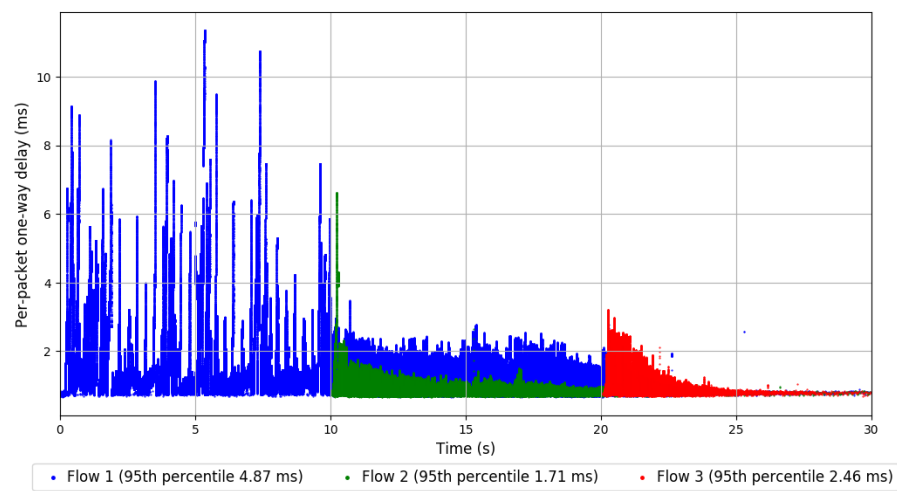
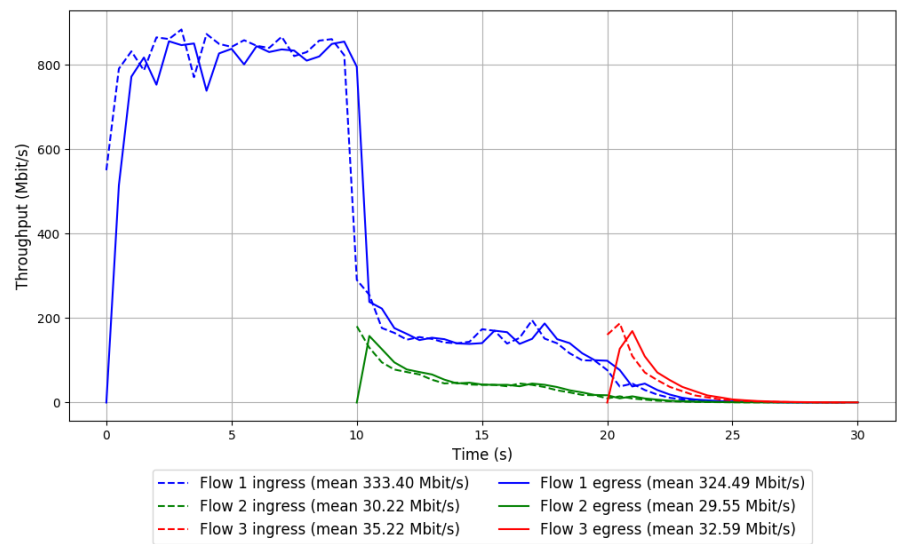
-- Flow 3:

Average throughput: 32.59 Mbit/s

95th percentile per-packet one-way delay: 2.463 ms

Loss rate: 7.47%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-12-11 13:52:42

End at: 2018-12-11 13:53:12

Local clock offset: 5.275 ms

Remote clock offset: 1.62 ms

Below is generated by plot.py at 2018-12-11 15:04:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 333.44 Mbit/s

95th percentile per-packet one-way delay: 4.265 ms

Loss rate: 3.03%

-- Flow 1:

Average throughput: 304.82 Mbit/s

95th percentile per-packet one-way delay: 4.386 ms

Loss rate: 2.74%

-- Flow 2:

Average throughput: 27.78 Mbit/s

95th percentile per-packet one-way delay: 2.134 ms

Loss rate: 2.38%

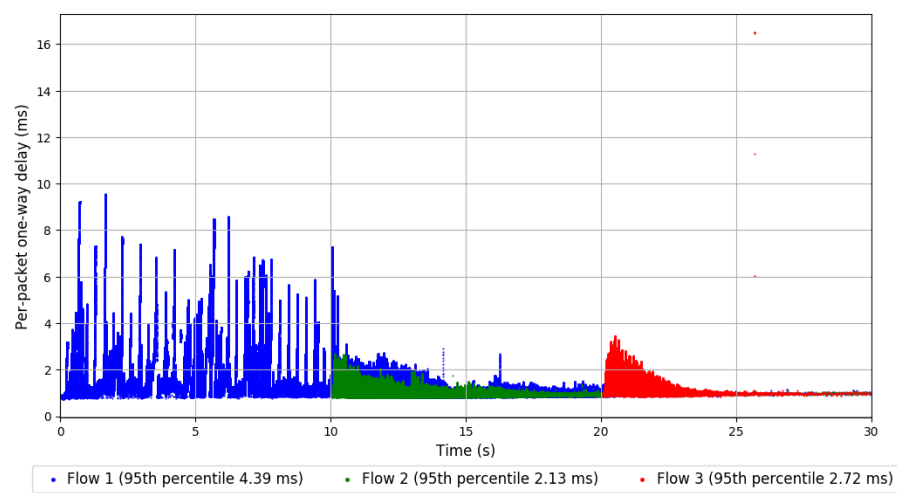
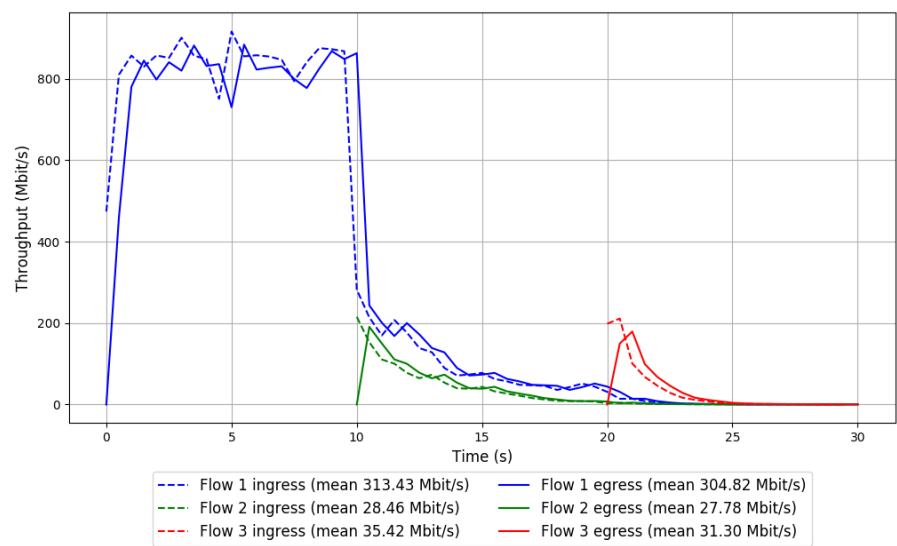
-- Flow 3:

Average throughput: 31.30 Mbit/s

95th percentile per-packet one-way delay: 2.721 ms

Loss rate: 11.63%

Run 4: Report of FillP-Sheep — Data Link

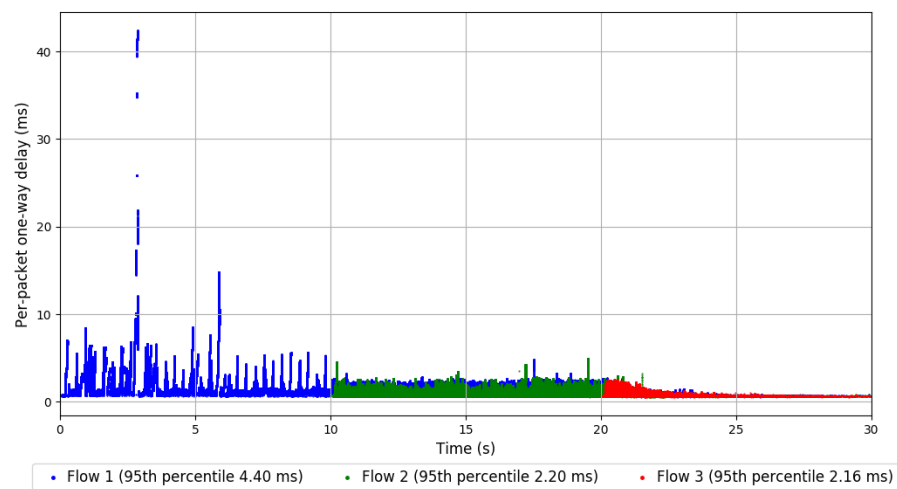
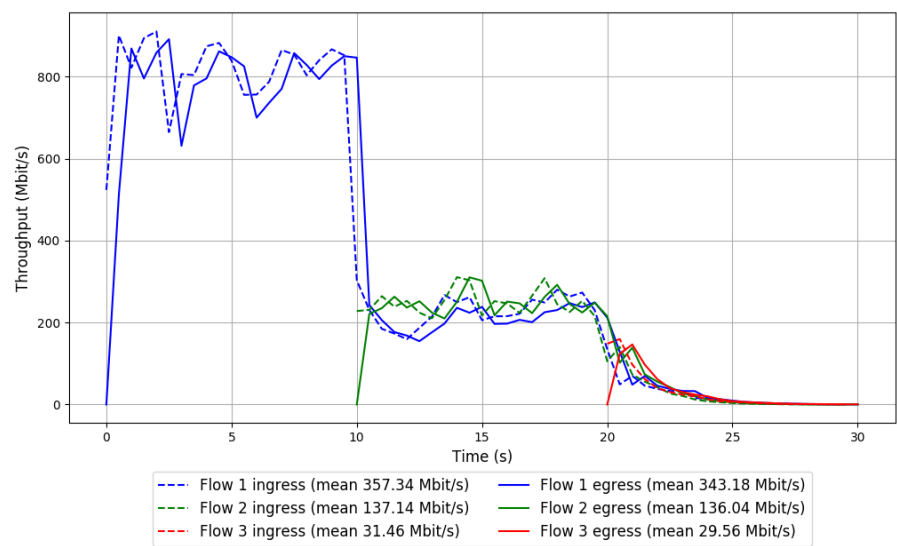


Run 5: Statistics of FillP-Sheep

Start at: 2018-12-11 14:20:22
End at: 2018-12-11 14:20:52
Local clock offset: 4.877 ms
Remote clock offset: -1.788 ms

Below is generated by plot.py at 2018-12-11 15:06:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 443.31 Mbit/s
95th percentile per-packet one-way delay: 3.994 ms
Loss rate: 3.38%
-- Flow 1:
Average throughput: 343.18 Mbit/s
95th percentile per-packet one-way delay: 4.398 ms
Loss rate: 3.96%
-- Flow 2:
Average throughput: 136.04 Mbit/s
95th percentile per-packet one-way delay: 2.199 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 29.56 Mbit/s
95th percentile per-packet one-way delay: 2.163 ms
Loss rate: 6.05%

Run 5: Report of FillP-Sheep — Data Link

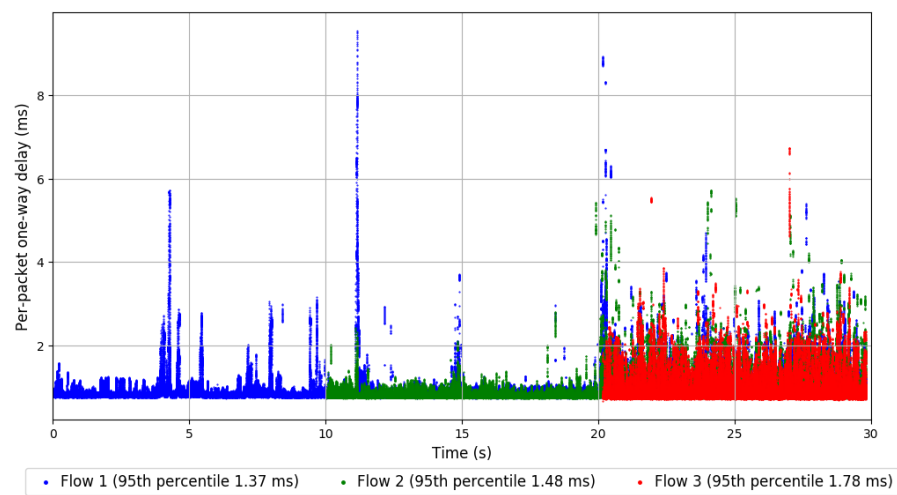
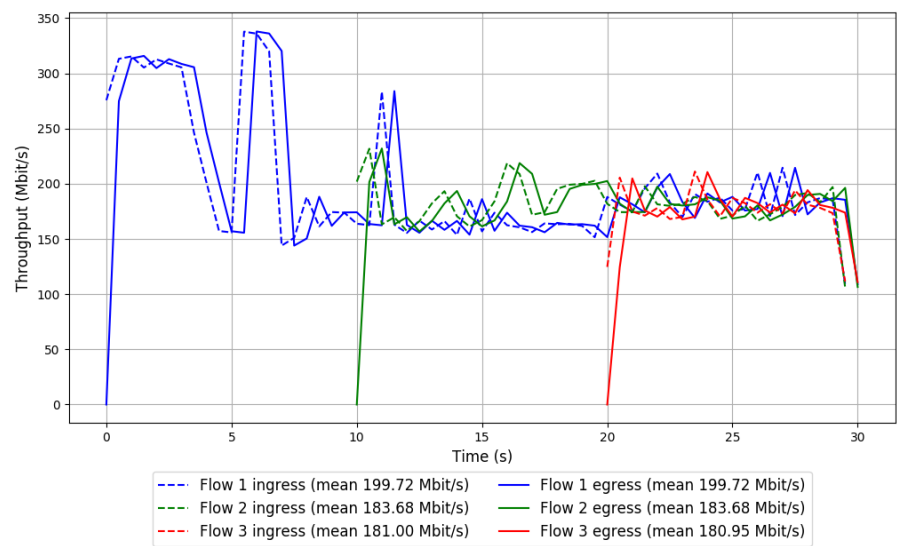


Run 1: Statistics of Indigo

Start at: 2018-12-11 12:32:43
End at: 2018-12-11 12:33:13
Local clock offset: 4.604 ms
Remote clock offset: -2.845 ms

Below is generated by plot.py at 2018-12-11 15:06:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 380.26 Mbit/s
95th percentile per-packet one-way delay: 1.517 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 199.72 Mbit/s
95th percentile per-packet one-way delay: 1.373 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 183.68 Mbit/s
95th percentile per-packet one-way delay: 1.481 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 180.95 Mbit/s
95th percentile per-packet one-way delay: 1.779 ms
Loss rate: 0.02%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-12-11 13:00:17

End at: 2018-12-11 13:00:47

Local clock offset: 4.686 ms

Remote clock offset: 4.418 ms

Below is generated by plot.py at 2018-12-11 15:06:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 385.49 Mbit/s

95th percentile per-packet one-way delay: 1.422 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 202.32 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 189.19 Mbit/s

95th percentile per-packet one-way delay: 1.434 ms

Loss rate: 0.00%

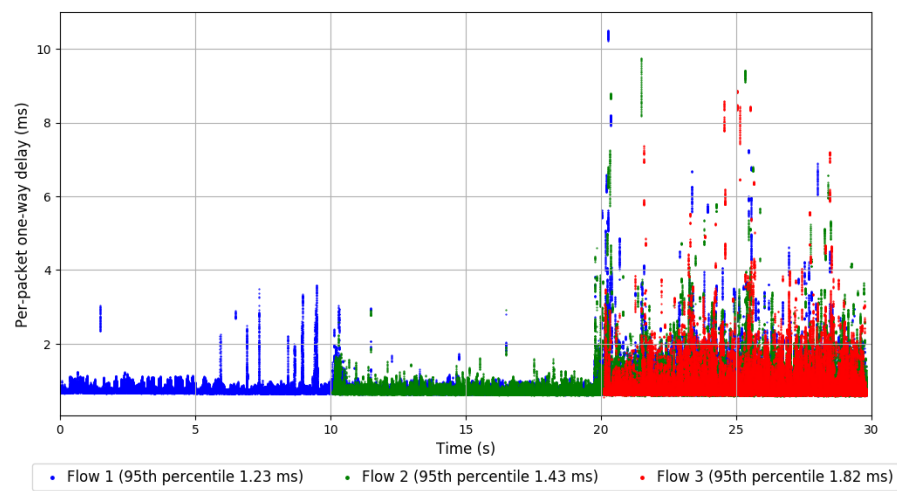
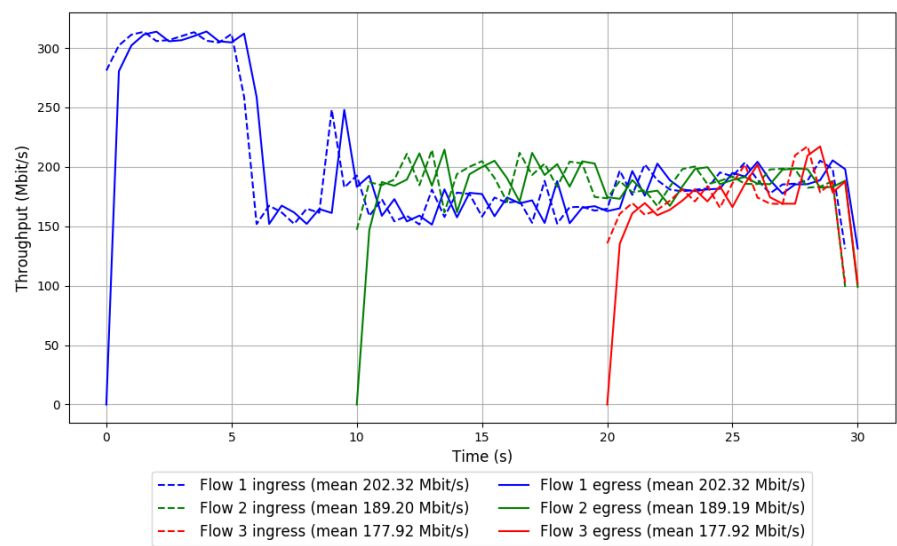
-- Flow 3:

Average throughput: 177.92 Mbit/s

95th percentile per-packet one-way delay: 1.823 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-12-11 13:27:54

End at: 2018-12-11 13:28:24

Local clock offset: 5.045 ms

Remote clock offset: 4.016 ms

Below is generated by plot.py at 2018-12-11 15:06:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 384.59 Mbit/s

95th percentile per-packet one-way delay: 1.496 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 200.75 Mbit/s

95th percentile per-packet one-way delay: 1.434 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 187.52 Mbit/s

95th percentile per-packet one-way delay: 1.478 ms

Loss rate: 0.00%

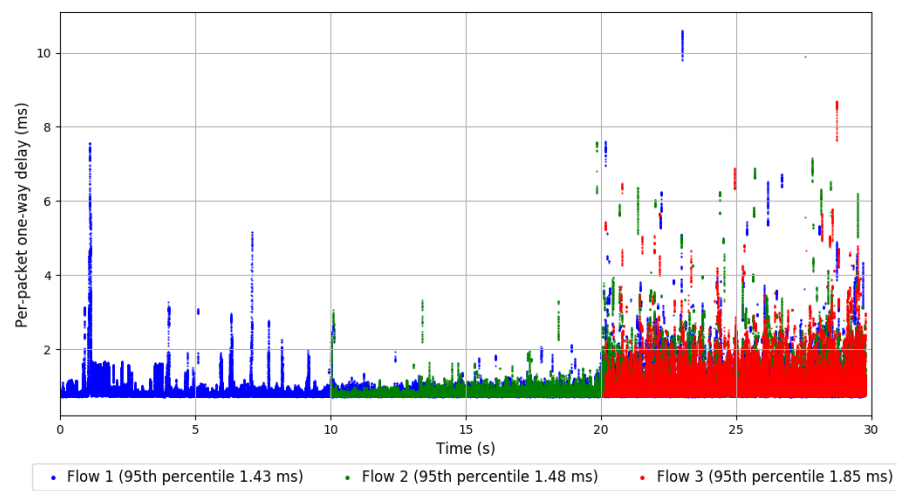
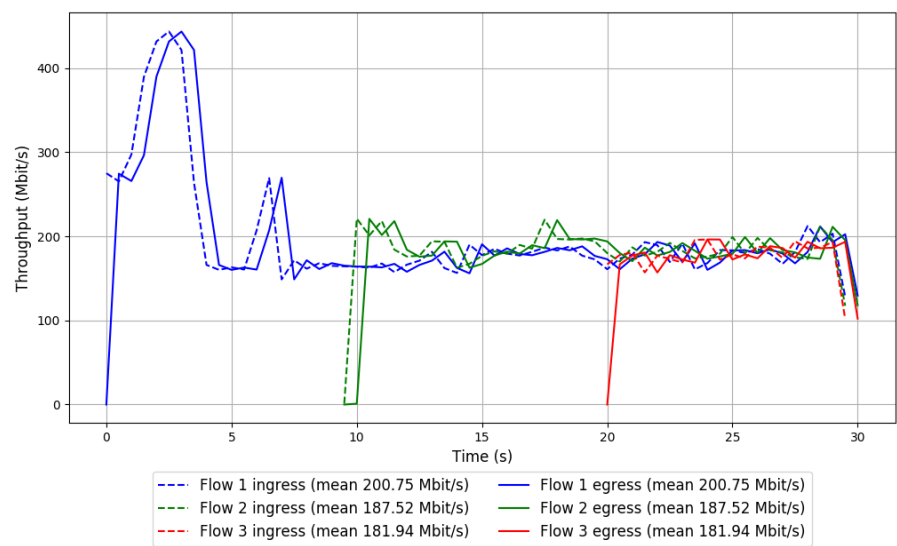
-- Flow 3:

Average throughput: 181.94 Mbit/s

95th percentile per-packet one-way delay: 1.851 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-12-11 13:55:23

End at: 2018-12-11 13:55:53

Local clock offset: 5.297 ms

Remote clock offset: 0.824 ms

Below is generated by plot.py at 2018-12-11 15:06:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 370.25 Mbit/s

95th percentile per-packet one-way delay: 1.685 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 184.58 Mbit/s

95th percentile per-packet one-way delay: 1.497 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 190.56 Mbit/s

95th percentile per-packet one-way delay: 1.693 ms

Loss rate: 0.01%

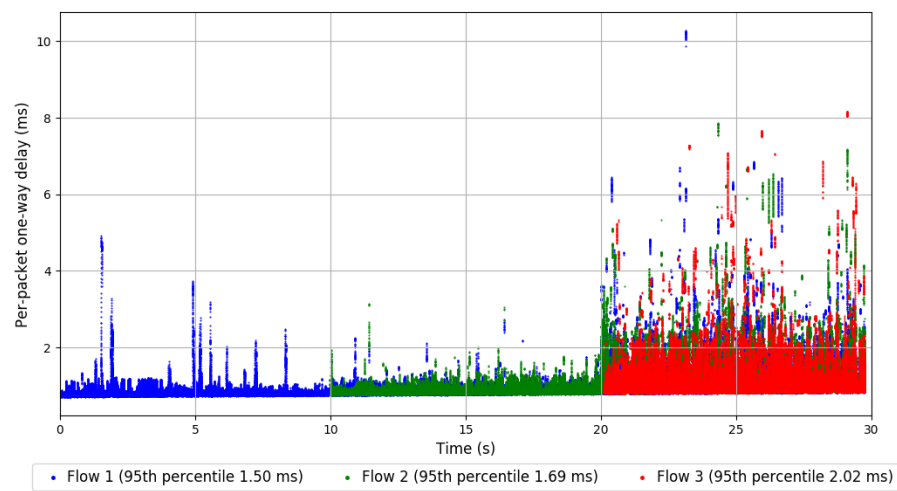
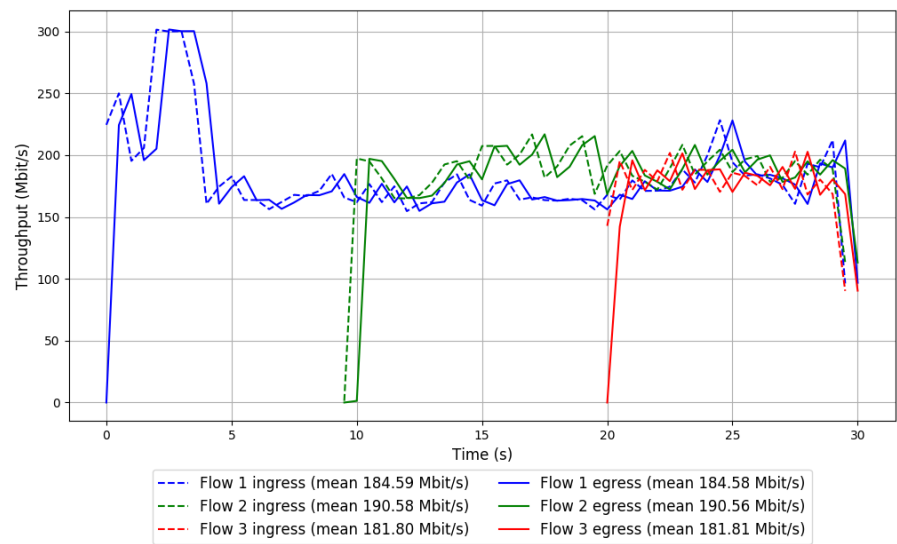
-- Flow 3:

Average throughput: 181.81 Mbit/s

95th percentile per-packet one-way delay: 2.019 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-12-11 14:23:07

End at: 2018-12-11 14:23:37

Local clock offset: 4.829 ms

Remote clock offset: -1.41 ms

Below is generated by plot.py at 2018-12-11 15:07:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 375.24 Mbit/s

95th percentile per-packet one-way delay: 1.555 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 191.32 Mbit/s

95th percentile per-packet one-way delay: 1.376 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 189.09 Mbit/s

95th percentile per-packet one-way delay: 1.519 ms

Loss rate: 0.00%

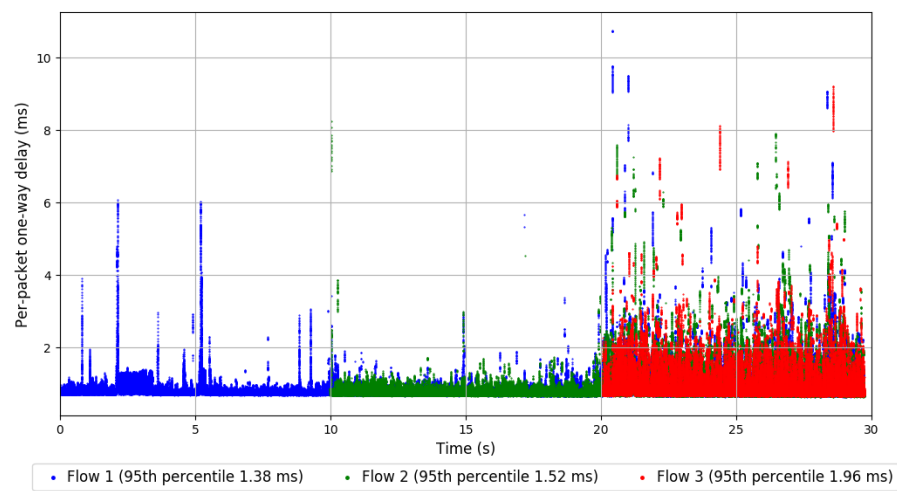
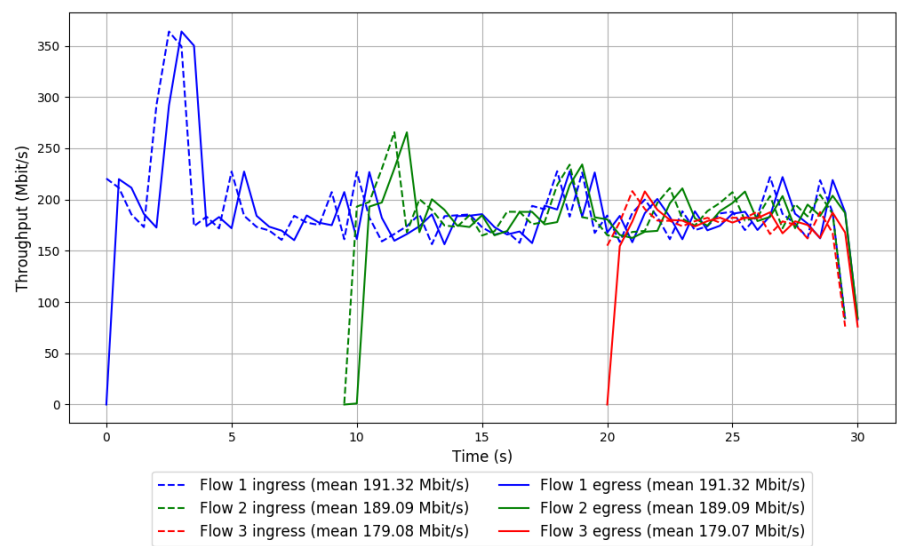
-- Flow 3:

Average throughput: 179.07 Mbit/s

95th percentile per-packet one-way delay: 1.956 ms

Loss rate: 0.01%

Run 5: Report of Indigo — Data Link

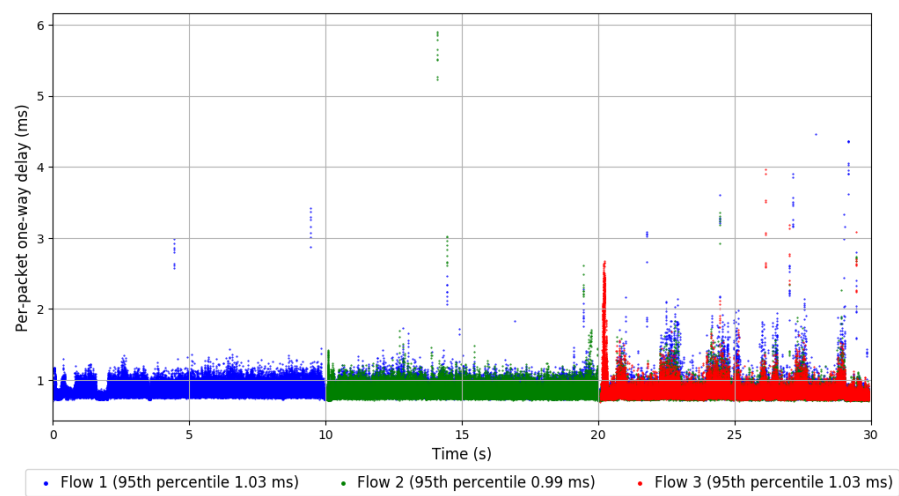
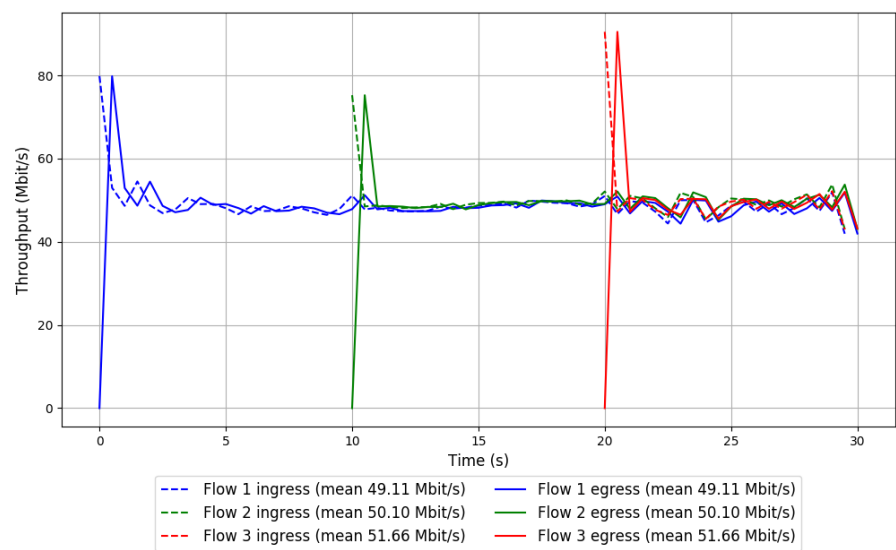


Run 1: Statistics of Indigo-MusesD

Start at: 2018-12-11 12:35:56
End at: 2018-12-11 12:36:26
Local clock offset: 4.589 ms
Remote clock offset: -2.746 ms

Below is generated by plot.py at 2018-12-11 15:07:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 99.41 Mbit/s
95th percentile per-packet one-way delay: 1.021 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.11 Mbit/s
95th percentile per-packet one-way delay: 1.032 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 50.10 Mbit/s
95th percentile per-packet one-way delay: 0.995 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 51.66 Mbit/s
95th percentile per-packet one-way delay: 1.032 ms
Loss rate: 0.00%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2018-12-11 13:03:30

End at: 2018-12-11 13:04:00

Local clock offset: 4.651 ms

Remote clock offset: 4.909 ms

Below is generated by plot.py at 2018-12-11 15:07:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 100.53 Mbit/s

95th percentile per-packet one-way delay: 0.980 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 50.16 Mbit/s

95th percentile per-packet one-way delay: 0.991 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.80 Mbit/s

95th percentile per-packet one-way delay: 0.979 ms

Loss rate: 0.00%

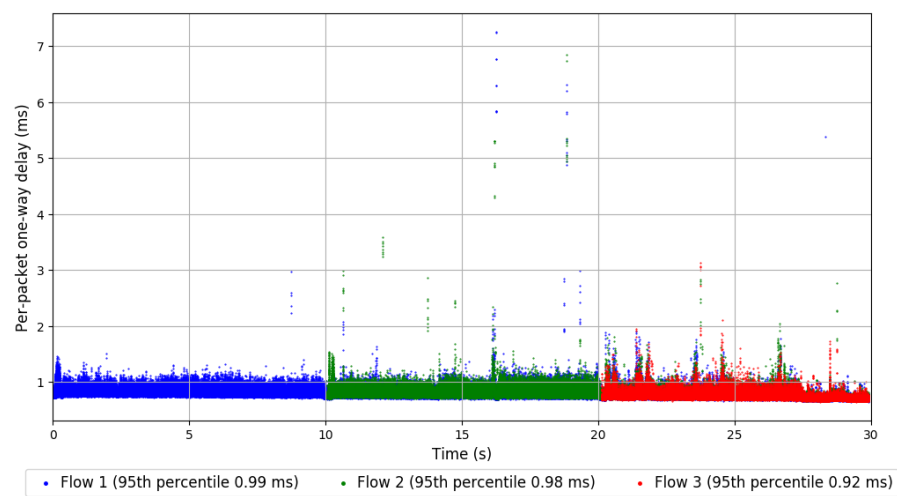
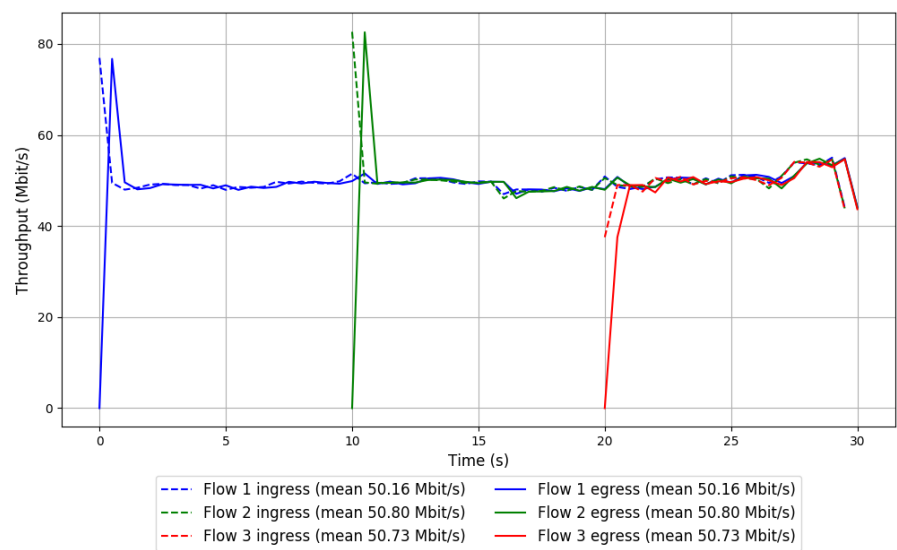
-- Flow 3:

Average throughput: 50.73 Mbit/s

95th percentile per-packet one-way delay: 0.922 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2018-12-11 13:31:08

End at: 2018-12-11 13:31:38

Local clock offset: 5.085 ms

Remote clock offset: 4.155 ms

Below is generated by plot.py at 2018-12-11 15:07:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 98.98 Mbit/s

95th percentile per-packet one-way delay: 1.087 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.40 Mbit/s

95th percentile per-packet one-way delay: 1.088 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 49.74 Mbit/s

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

Loss rate: 0.00%

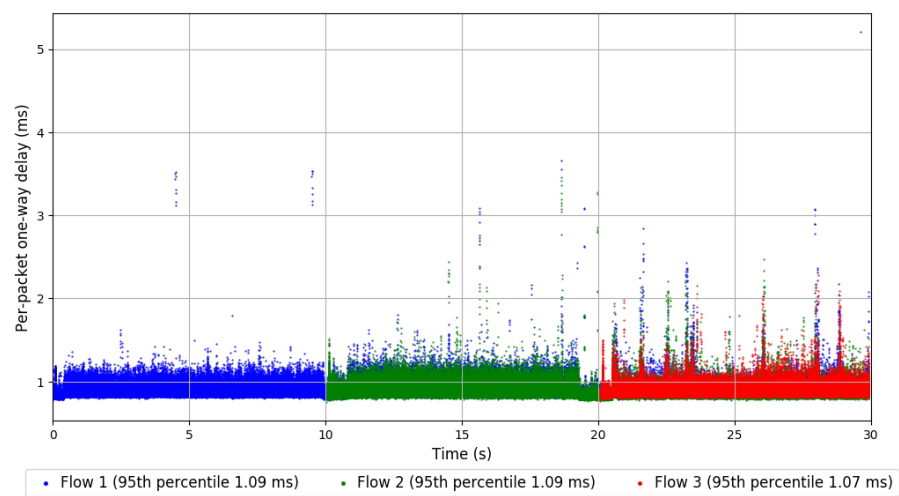
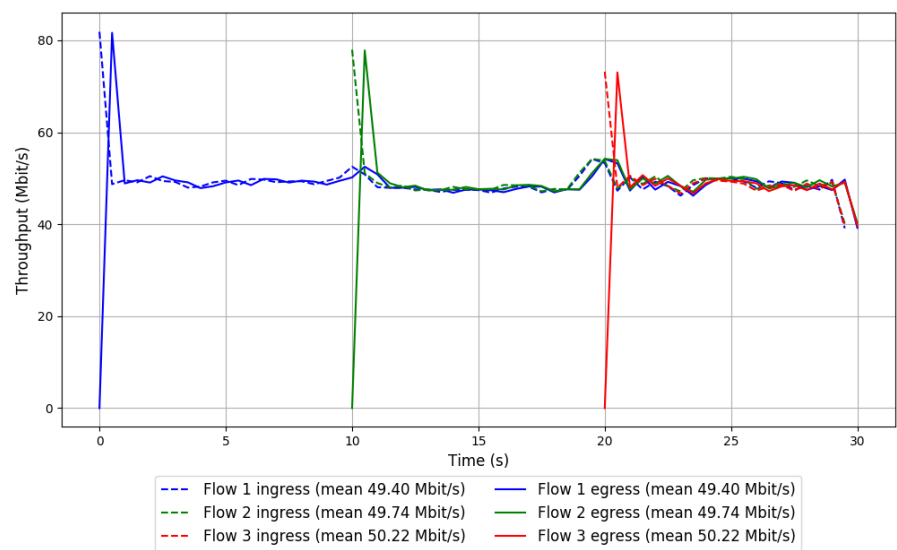
-- Flow 3:

Average throughput: 50.22 Mbit/s

95th percentile per-packet one-way delay: 1.071 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2018-12-11 13:58:36

End at: 2018-12-11 13:59:06

Local clock offset: 5.3 ms

Remote clock offset: 0.332 ms

Below is generated by plot.py at 2018-12-11 15:07:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.51 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 48.38 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.24 Mbit/s

95th percentile per-packet one-way delay: 1.280 ms

Loss rate: 0.00%

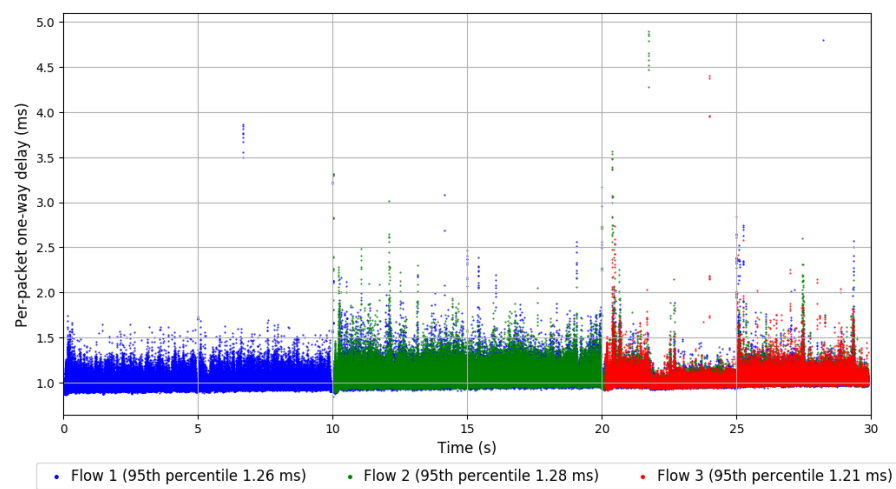
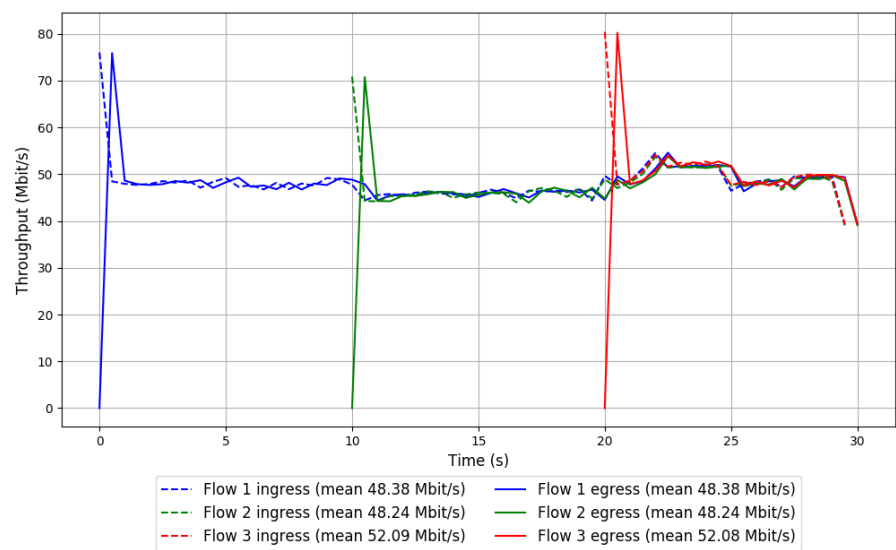
-- Flow 3:

Average throughput: 52.08 Mbit/s

95th percentile per-packet one-way delay: 1.210 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2018-12-11 14:26:20

End at: 2018-12-11 14:26:50

Local clock offset: 4.796 ms

Remote clock offset: -1.15 ms

Below is generated by plot.py at 2018-12-11 15:07:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.44 Mbit/s

95th percentile per-packet one-way delay: 1.041 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 48.27 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.07 Mbit/s

95th percentile per-packet one-way delay: 1.071 ms

Loss rate: 0.00%

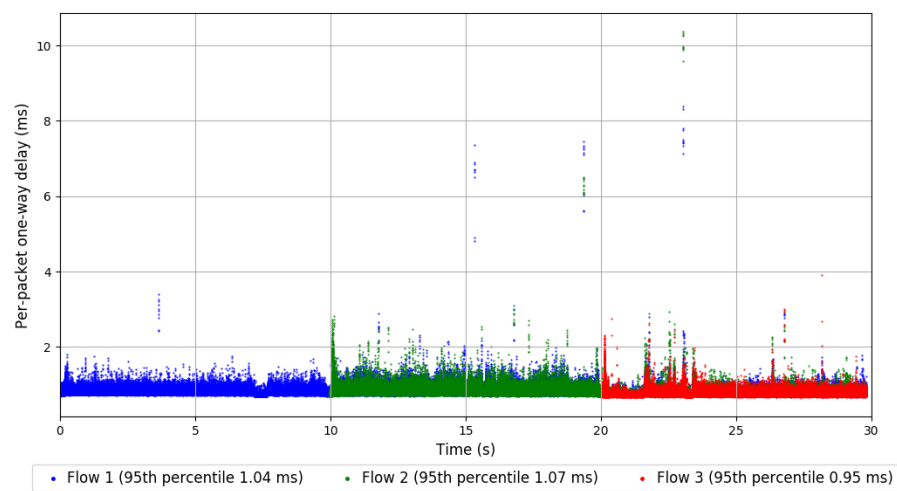
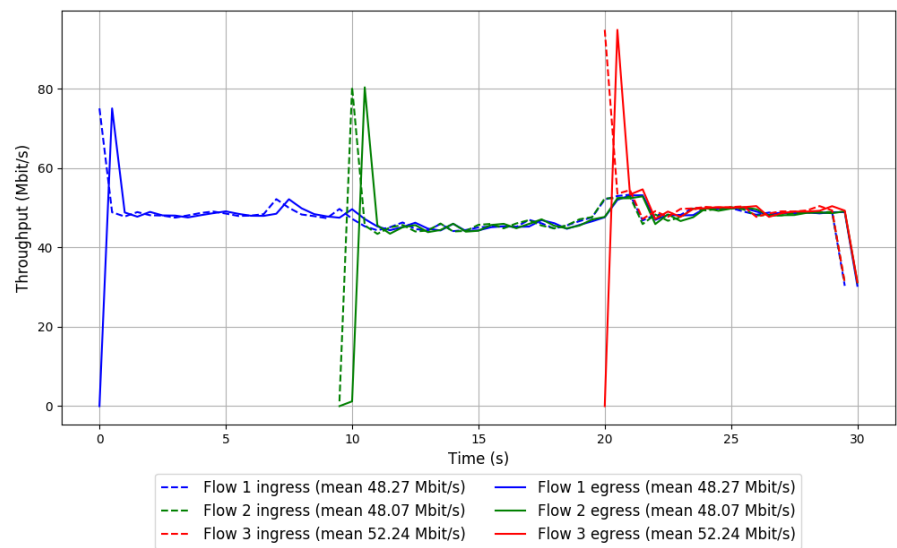
-- Flow 3:

Average throughput: 52.24 Mbit/s

95th percentile per-packet one-way delay: 0.953 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link

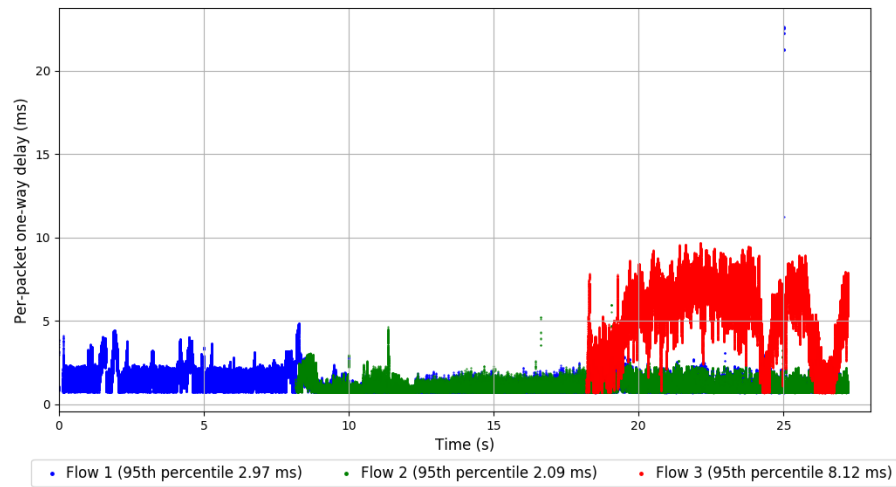
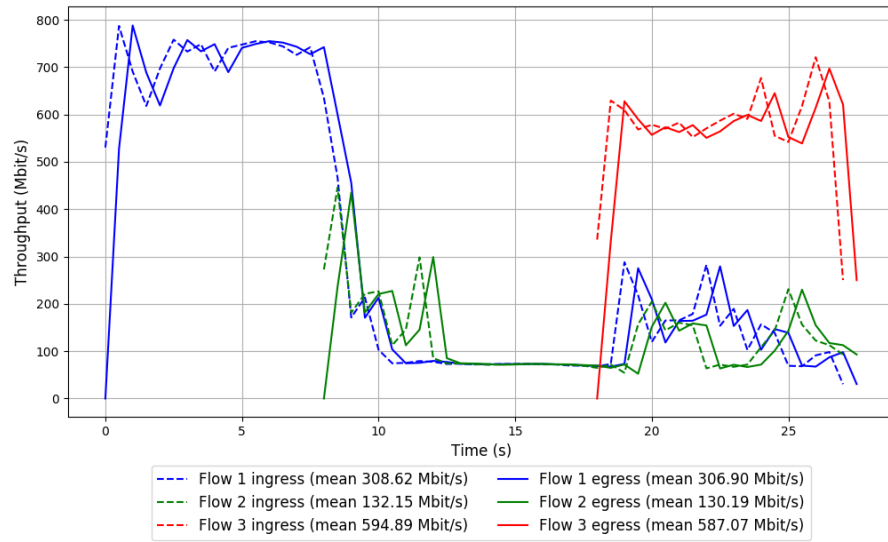


Run 1: Statistics of Indigo-MusesT

Start at: 2018-12-11 12:16:51
End at: 2018-12-11 12:17:21
Local clock offset: 4.633 ms
Remote clock offset: -3.557 ms

Below is generated by plot.py at 2018-12-11 15:10:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 593.14 Mbit/s
95th percentile per-packet one-way delay: 7.363 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 306.90 Mbit/s
95th percentile per-packet one-way delay: 2.972 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 130.19 Mbit/s
95th percentile per-packet one-way delay: 2.087 ms
Loss rate: 1.48%
-- Flow 3:
Average throughput: 587.07 Mbit/s
95th percentile per-packet one-way delay: 8.117 ms
Loss rate: 1.31%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2018-12-11 12:44:18

End at: 2018-12-11 12:44:48

Local clock offset: 4.673 ms

Remote clock offset: 0.836 ms

Below is generated by plot.py at 2018-12-11 15:13:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 790.15 Mbit/s

95th percentile per-packet one-way delay: 8.793 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 651.00 Mbit/s

95th percentile per-packet one-way delay: 9.025 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 130.35 Mbit/s

95th percentile per-packet one-way delay: 1.965 ms

Loss rate: 2.12%

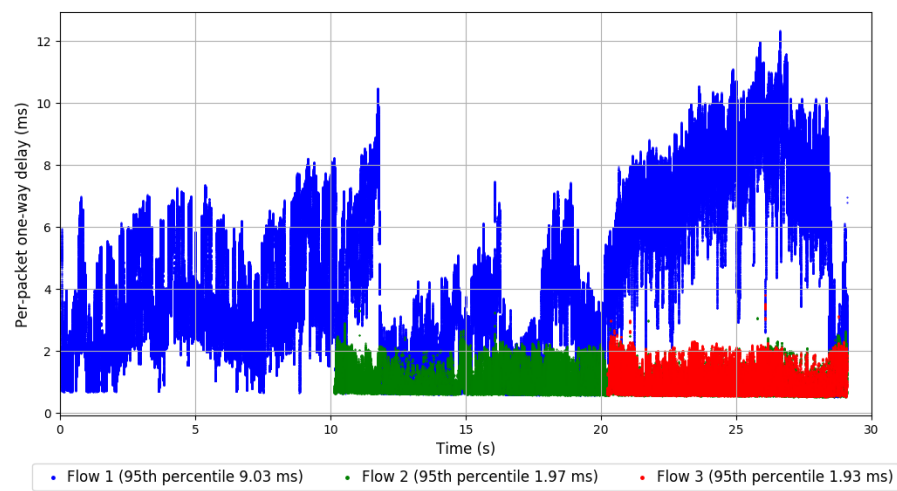
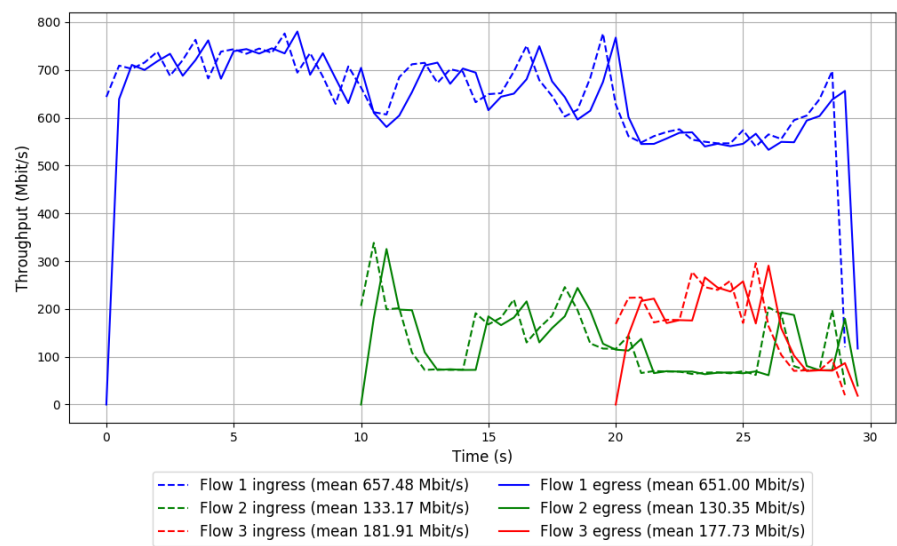
-- Flow 3:

Average throughput: 177.73 Mbit/s

95th percentile per-packet one-way delay: 1.934 ms

Loss rate: 2.29%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2018-12-11 13:11:56

End at: 2018-12-11 13:12:26

Local clock offset: 4.78 ms

Remote clock offset: 5.914 ms

Below is generated by plot.py at 2018-12-11 15:14:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 795.43 Mbit/s

95th percentile per-packet one-way delay: 8.007 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 649.38 Mbit/s

95th percentile per-packet one-way delay: 8.203 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 168.97 Mbit/s

95th percentile per-packet one-way delay: 2.399 ms

Loss rate: 1.89%

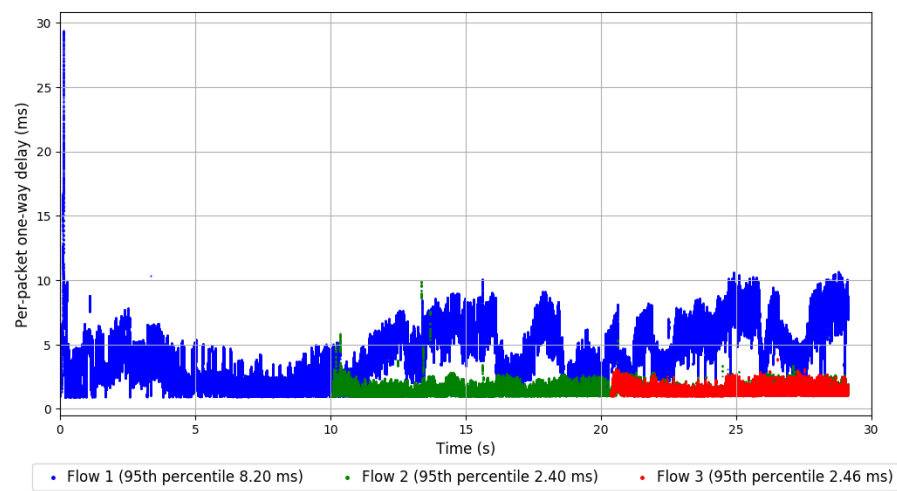
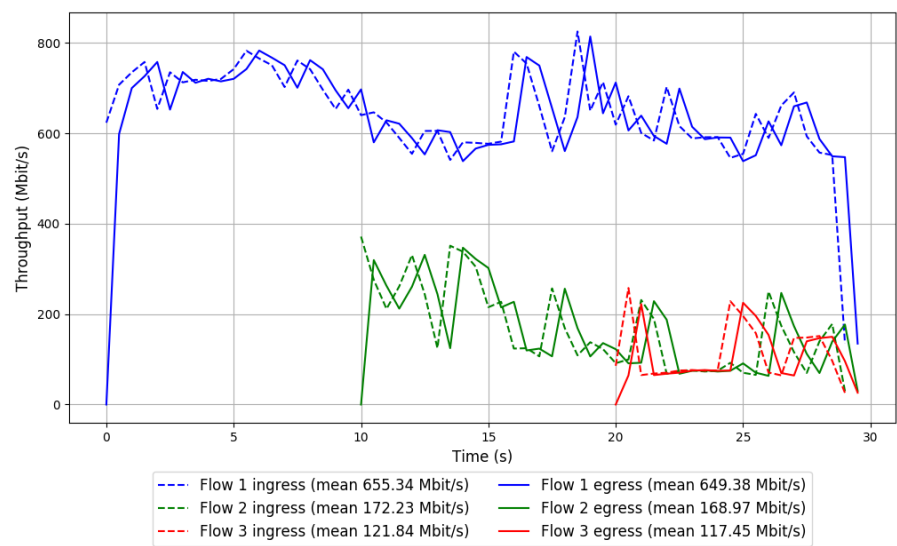
-- Flow 3:

Average throughput: 117.45 Mbit/s

95th percentile per-packet one-way delay: 2.457 ms

Loss rate: 3.60%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2018-12-11 13:39:29

End at: 2018-12-11 13:39:59

Local clock offset: 5.15 ms

Remote clock offset: 4.396 ms

Below is generated by plot.py at 2018-12-11 15:14:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 643.30 Mbit/s

95th percentile per-packet one-way delay: 4.373 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 410.86 Mbit/s

95th percentile per-packet one-way delay: 4.631 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 244.14 Mbit/s

95th percentile per-packet one-way delay: 2.639 ms

Loss rate: 0.56%

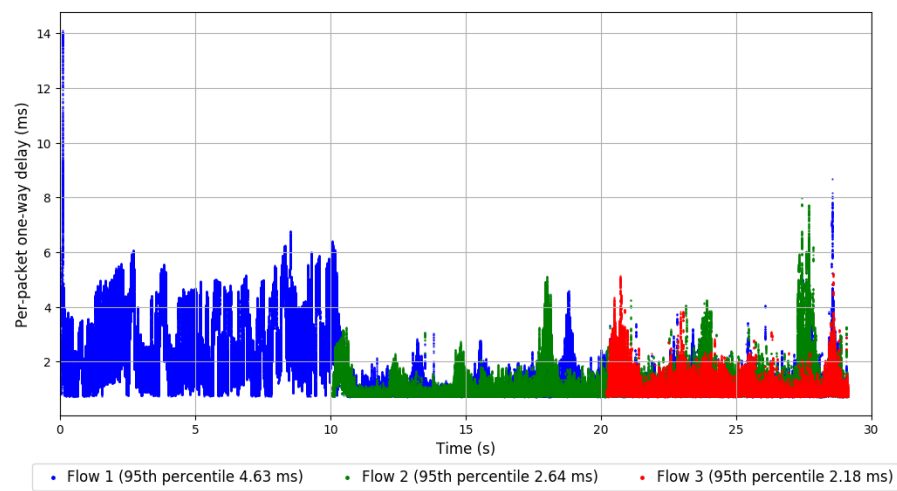
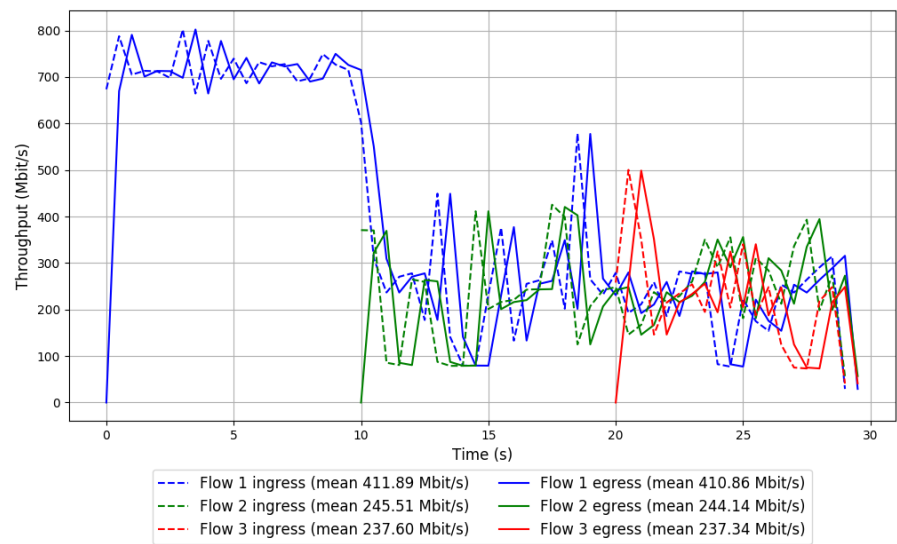
-- Flow 3:

Average throughput: 237.34 Mbit/s

95th percentile per-packet one-way delay: 2.184 ms

Loss rate: 0.10%

Run 4: Report of Indigo-MusesT — Data Link

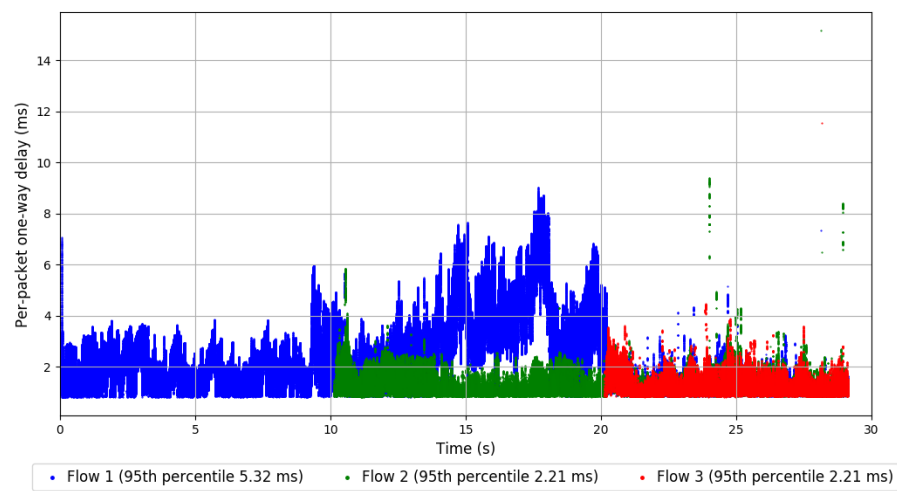
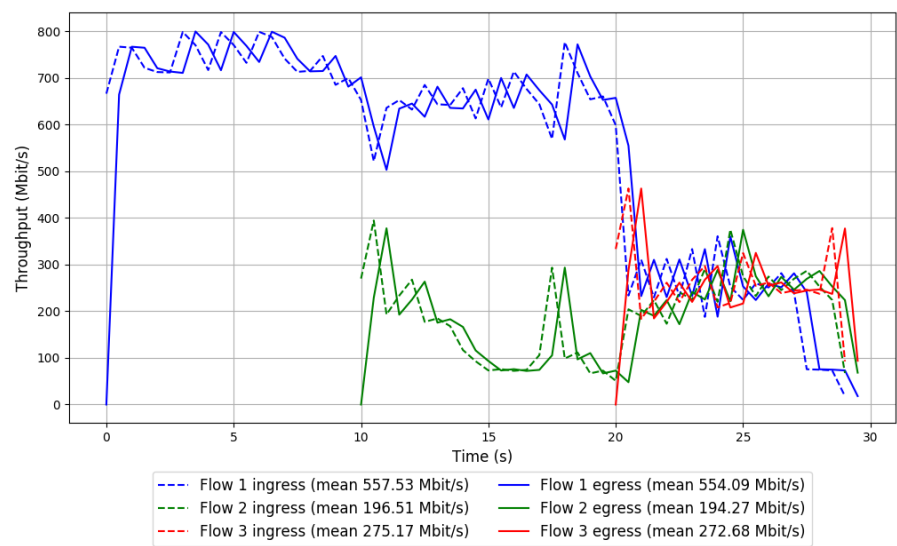


Run 5: Statistics of Indigo-MuseST

Start at: 2018-12-11 14:06:57
End at: 2018-12-11 14:07:27
Local clock offset: 5.296 ms
Remote clock offset: -0.821 ms

Below is generated by plot.py at 2018-12-11 15:14:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 764.98 Mbit/s
95th percentile per-packet one-way delay: 4.875 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 554.09 Mbit/s
95th percentile per-packet one-way delay: 5.319 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 194.27 Mbit/s
95th percentile per-packet one-way delay: 2.207 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 272.68 Mbit/s
95th percentile per-packet one-way delay: 2.209 ms
Loss rate: 0.91%

Run 5: Report of Indigo-MusesT — Data Link

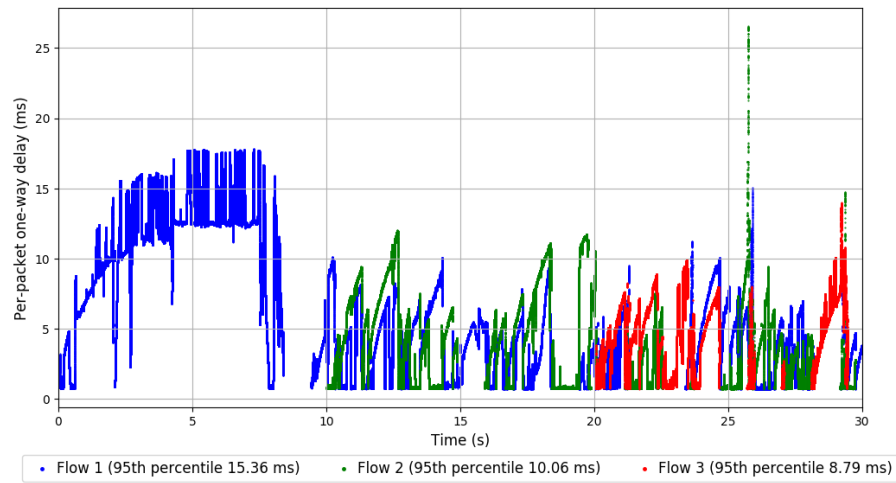
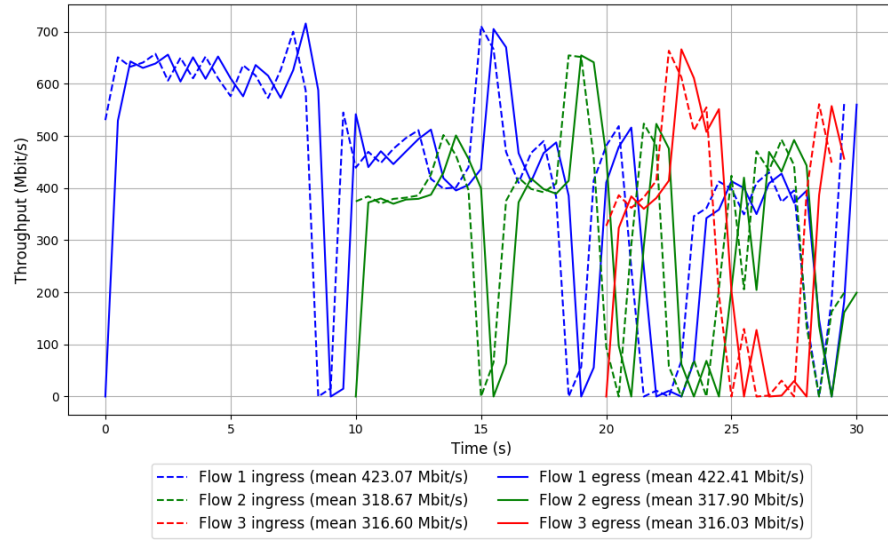


Run 1: Statistics of LEDBAT

Start at: 2018-12-11 12:27:02
End at: 2018-12-11 12:27:32
Local clock offset: 4.624 ms
Remote clock offset: -3.078 ms

Below is generated by plot.py at 2018-12-11 15:14:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 730.93 Mbit/s
95th percentile per-packet one-way delay: 13.352 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 422.41 Mbit/s
95th percentile per-packet one-way delay: 15.358 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 317.90 Mbit/s
95th percentile per-packet one-way delay: 10.059 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 316.03 Mbit/s
95th percentile per-packet one-way delay: 8.787 ms
Loss rate: 0.17%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-12-11 12:54:38

End at: 2018-12-11 12:55:08

Local clock offset: 4.714 ms

Remote clock offset: 3.463 ms

Below is generated by plot.py at 2018-12-11 15:14:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 714.67 Mbit/s

95th percentile per-packet one-way delay: 14.375 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 423.98 Mbit/s

95th percentile per-packet one-way delay: 15.229 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 389.17 Mbit/s

95th percentile per-packet one-way delay: 7.428 ms

Loss rate: 0.17%

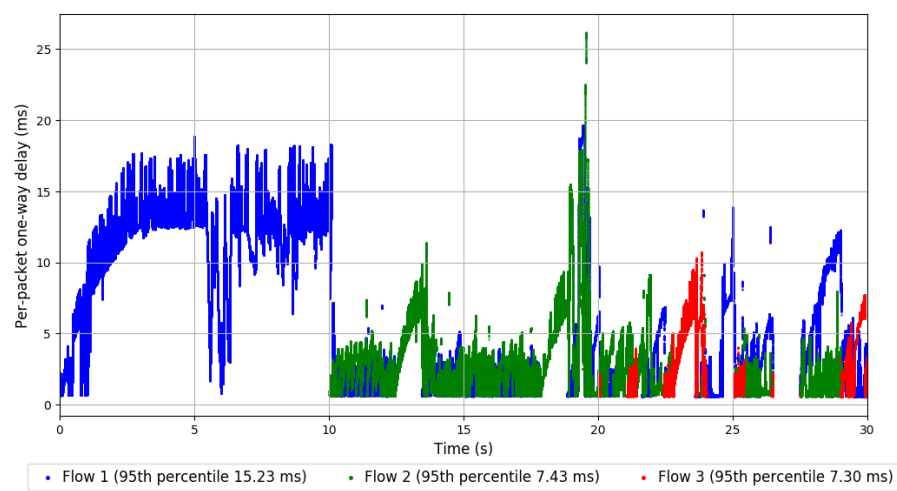
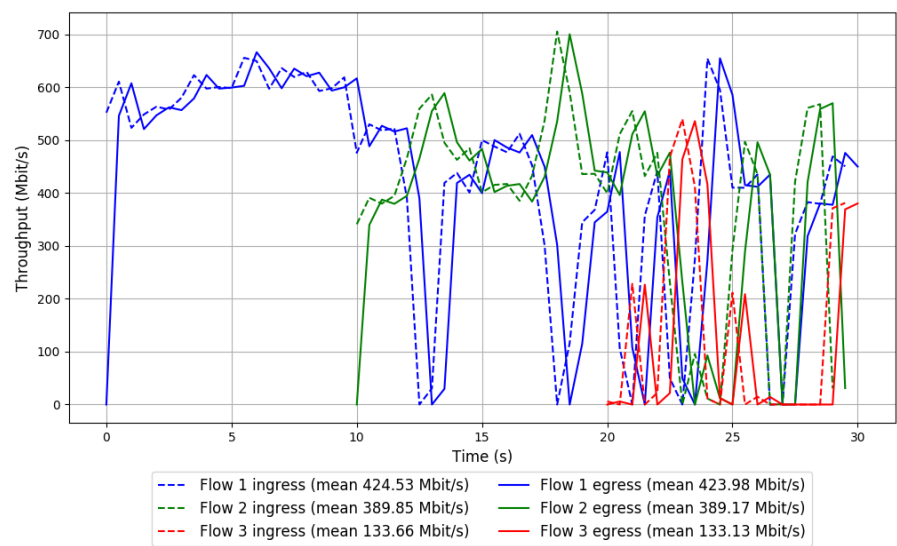
-- Flow 3:

Average throughput: 133.13 Mbit/s

95th percentile per-packet one-way delay: 7.304 ms

Loss rate: 0.40%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-12-11 13:22:18

End at: 2018-12-11 13:22:48

Local clock offset: 5.016 ms

Remote clock offset: 4.258 ms

Below is generated by plot.py at 2018-12-11 15:14:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 630.22 Mbit/s

95th percentile per-packet one-way delay: 14.208 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 386.17 Mbit/s

95th percentile per-packet one-way delay: 15.967 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 274.25 Mbit/s

95th percentile per-packet one-way delay: 9.655 ms

Loss rate: 0.28%

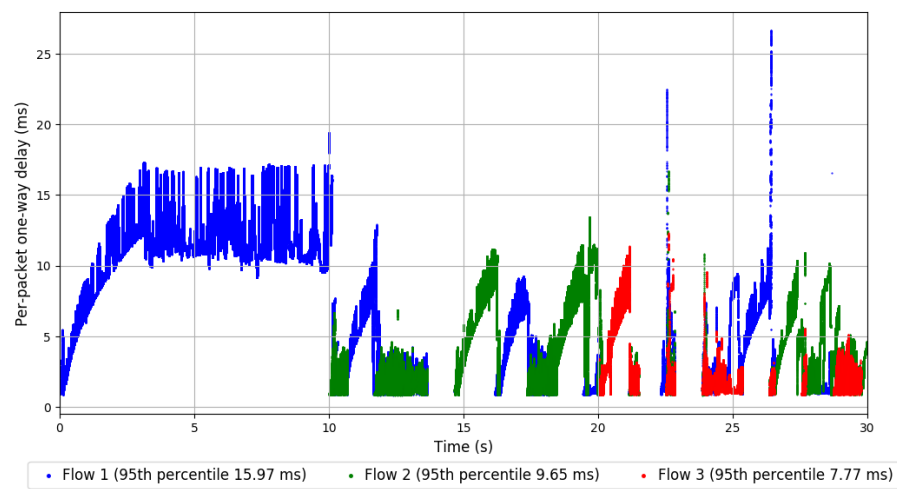
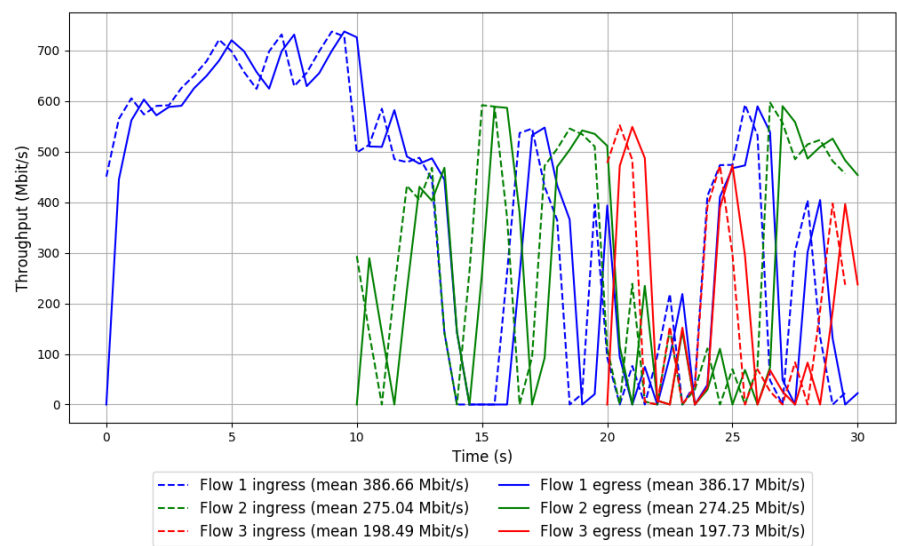
-- Flow 3:

Average throughput: 197.73 Mbit/s

95th percentile per-packet one-way delay: 7.772 ms

Loss rate: 0.38%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-12-11 13:49:45

End at: 2018-12-11 13:50:15

Local clock offset: 5.232 ms

Remote clock offset: 2.817 ms

Below is generated by plot.py at 2018-12-11 15:18:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 673.90 Mbit/s

95th percentile per-packet one-way delay: 15.708 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 386.83 Mbit/s

95th percentile per-packet one-way delay: 15.995 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 293.02 Mbit/s

95th percentile per-packet one-way delay: 9.059 ms

Loss rate: 0.22%

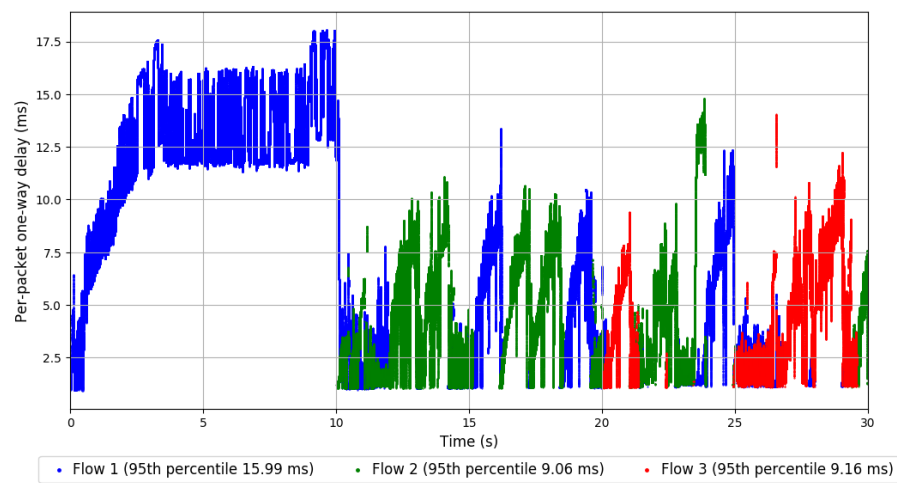
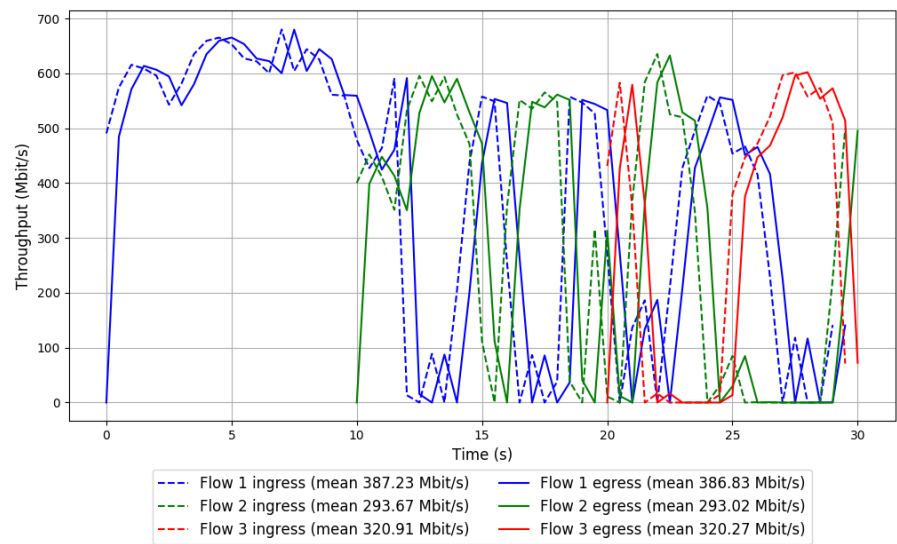
-- Flow 3:

Average throughput: 320.27 Mbit/s

95th percentile per-packet one-way delay: 9.157 ms

Loss rate: 0.20%

Run 4: Report of LEDBAT — Data Link

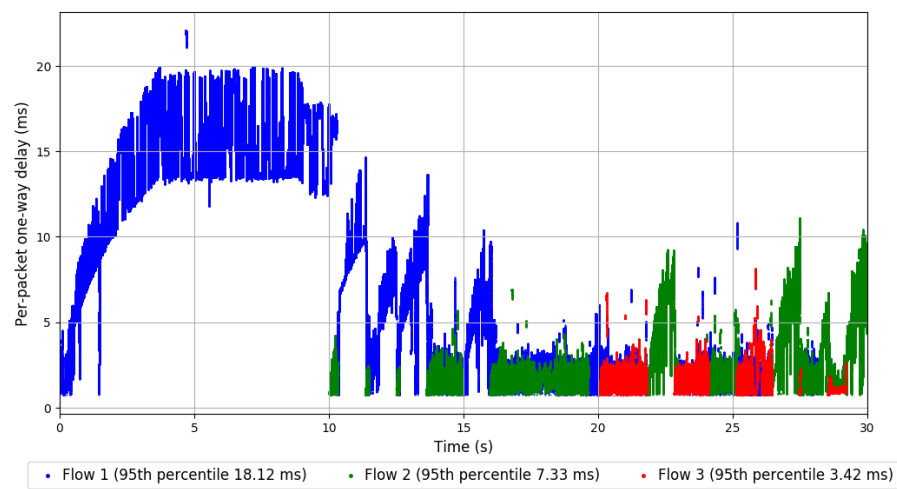
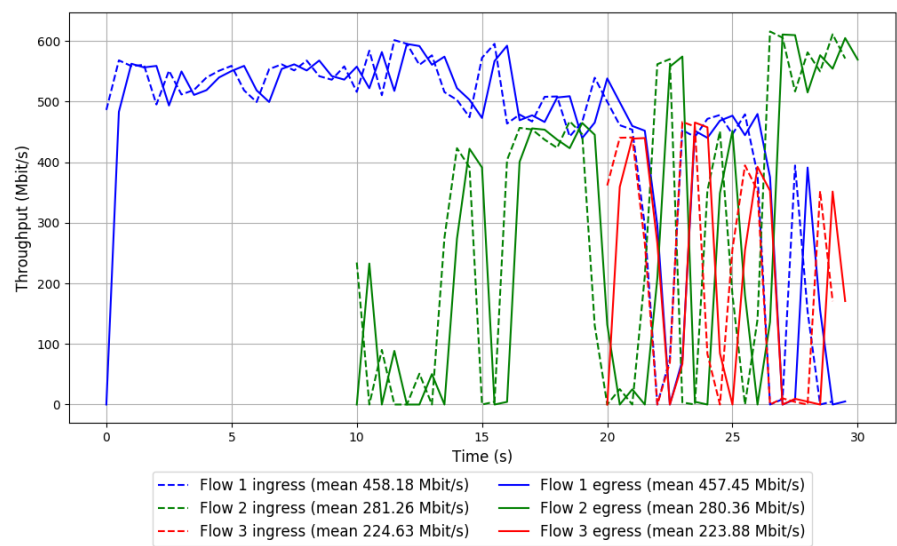


Run 5: Statistics of LEDBAT

Start at: 2018-12-11 14:17:25
End at: 2018-12-11 14:17:55
Local clock offset: 4.939 ms
Remote clock offset: -1.654 ms

Below is generated by plot.py at 2018-12-11 15:20:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 700.96 Mbit/s
95th percentile per-packet one-way delay: 17.119 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 457.45 Mbit/s
95th percentile per-packet one-way delay: 18.121 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 280.36 Mbit/s
95th percentile per-packet one-way delay: 7.333 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 223.88 Mbit/s
95th percentile per-packet one-way delay: 3.422 ms
Loss rate: 0.33%

Run 5: Report of LEDBAT — Data Link

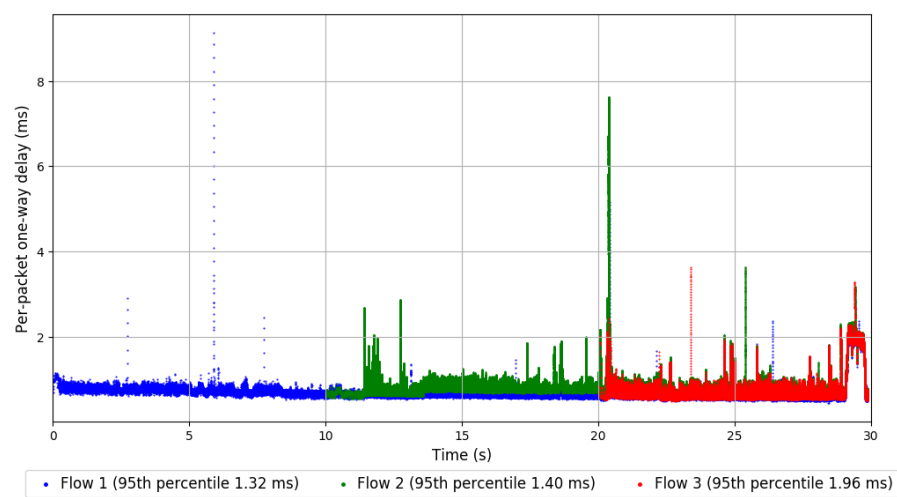
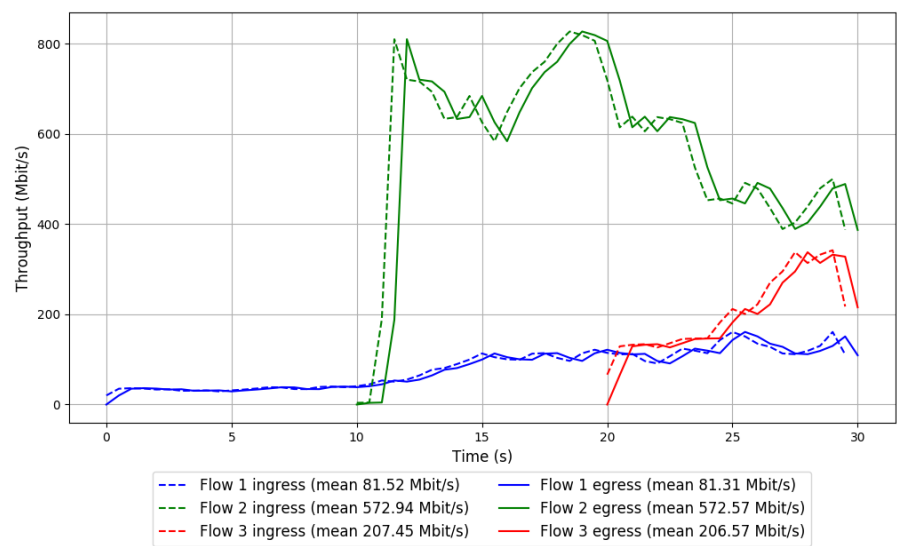


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-12-11 12:41:37
End at: 2018-12-11 12:42:07
Local clock offset: 4.626 ms
Remote clock offset: -0.314 ms

# Below is generated by plot.py at 2018-12-11 15:20:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 530.24 Mbit/s
95th percentile per-packet one-way delay: 1.588 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 81.31 Mbit/s
95th percentile per-packet one-way delay: 1.321 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 572.57 Mbit/s
95th percentile per-packet one-way delay: 1.396 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 206.57 Mbit/s
95th percentile per-packet one-way delay: 1.960 ms
Loss rate: 0.42%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-12-11 13:09:11

End at: 2018-12-11 13:09:41

Local clock offset: 4.693 ms

Remote clock offset: 5.605 ms

Below is generated by plot.py at 2018-12-11 15:21:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 712.62 Mbit/s

95th percentile per-packet one-way delay: 1.132 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 478.49 Mbit/s

95th percentile per-packet one-way delay: 1.136 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 266.03 Mbit/s

95th percentile per-packet one-way delay: 1.110 ms

Loss rate: 0.01%

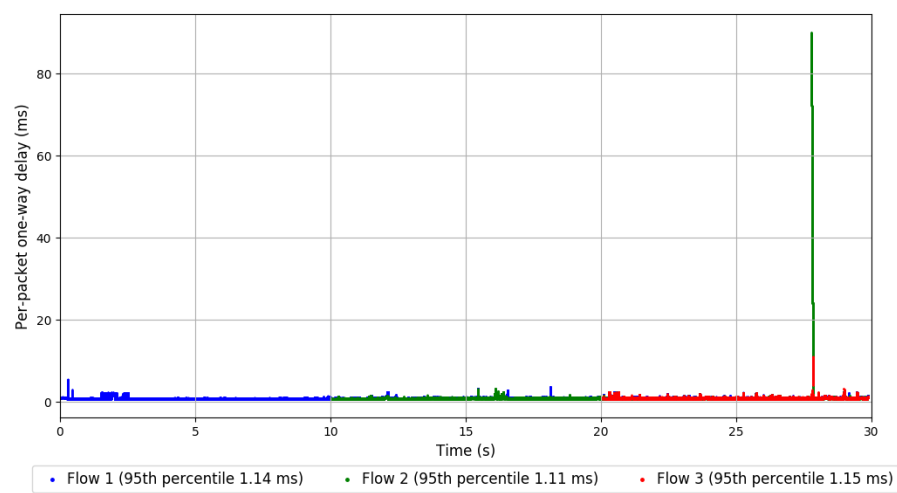
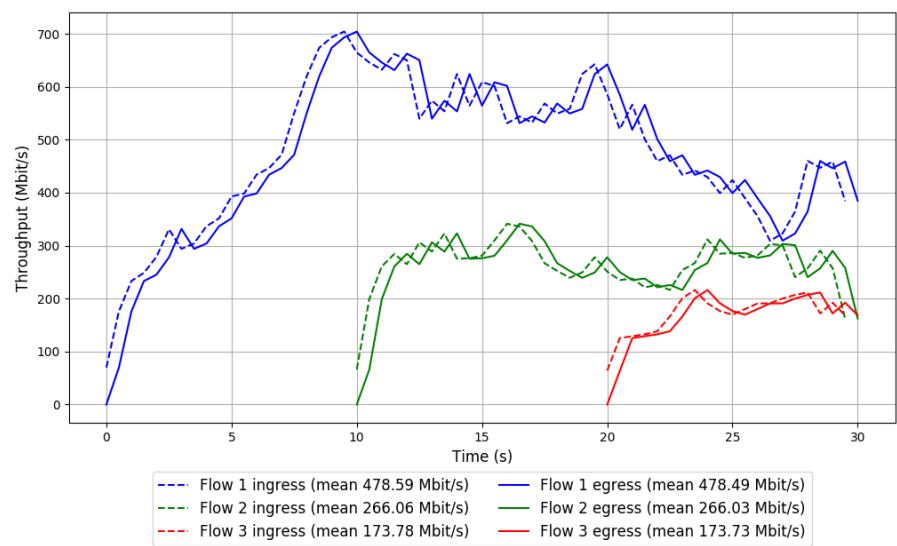
-- Flow 3:

Average throughput: 173.73 Mbit/s

95th percentile per-packet one-way delay: 1.148 ms

Loss rate: 0.02%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-12-11 13:36:46

End at: 2018-12-11 13:37:16

Local clock offset: 5.126 ms

Remote clock offset: 4.234 ms

Below is generated by plot.py at 2018-12-11 15:21:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 642.66 Mbit/s

95th percentile per-packet one-way delay: 1.746 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 265.55 Mbit/s

95th percentile per-packet one-way delay: 1.850 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 561.93 Mbit/s

95th percentile per-packet one-way delay: 1.672 ms

Loss rate: 0.12%

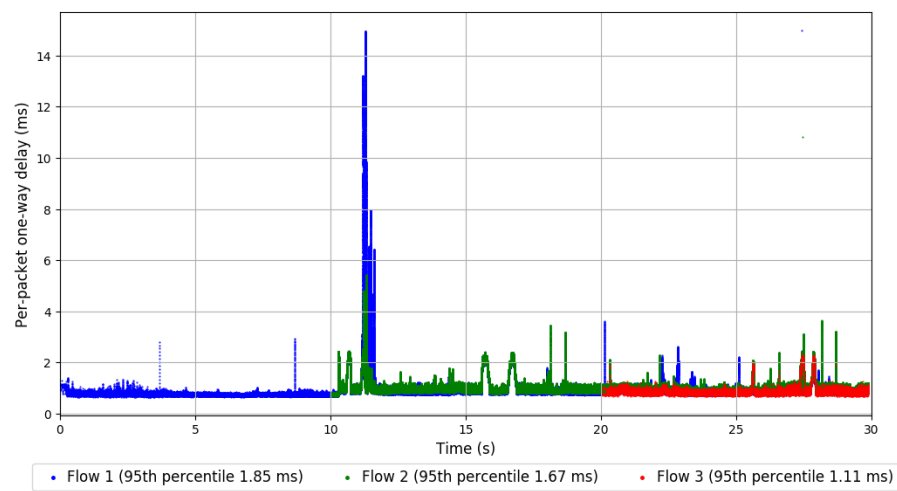
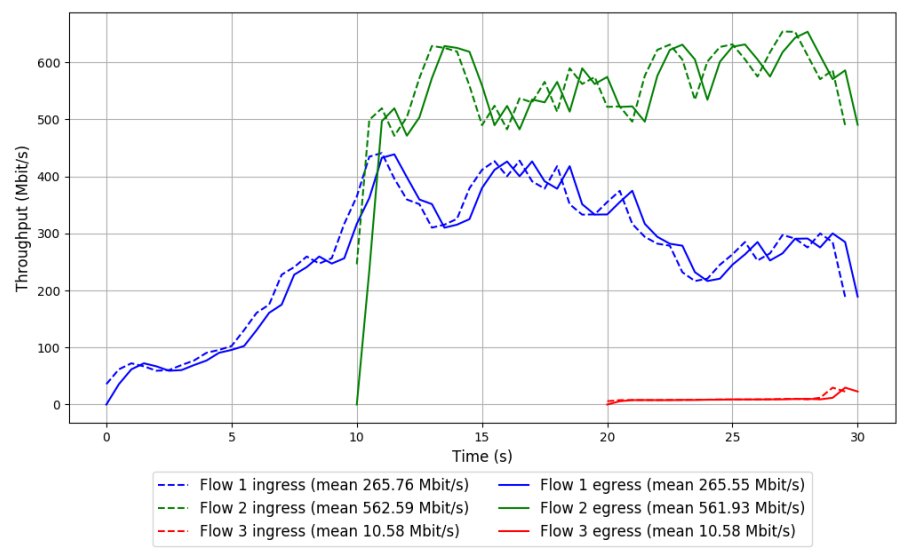
-- Flow 3:

Average throughput: 10.58 Mbit/s

95th percentile per-packet one-way delay: 1.107 ms

Loss rate: 0.02%

Run 3: Report of PCC-Allegro — Data Link

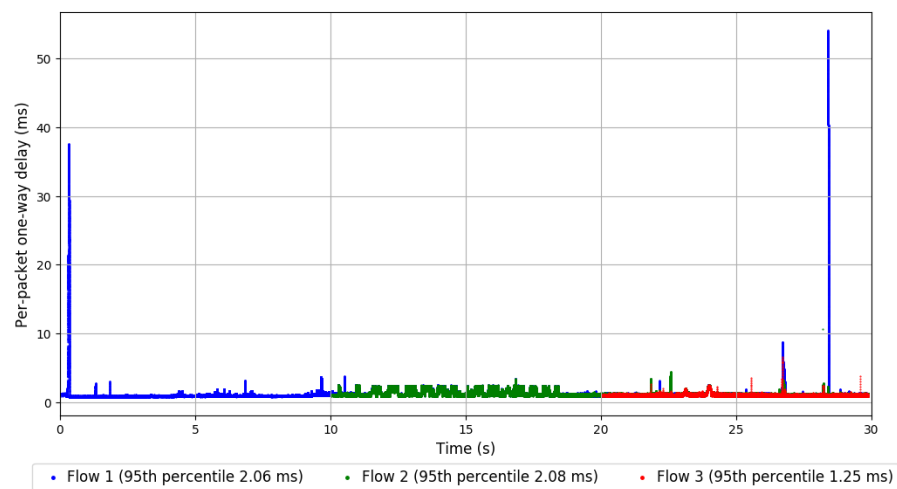
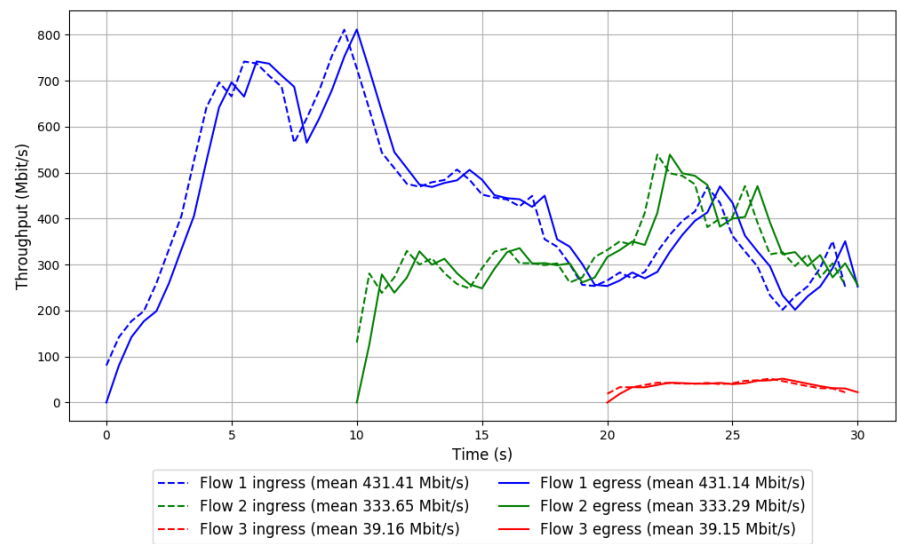


Run 4: Statistics of PCC-Allegro

Start at: 2018-12-11 14:04:14
End at: 2018-12-11 14:04:44
Local clock offset: 5.292 ms
Remote clock offset: -0.586 ms

```
# Below is generated by plot.py at 2018-12-11 15:21:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 665.66 Mbit/s
95th percentile per-packet one-way delay: 2.059 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 431.14 Mbit/s
95th percentile per-packet one-way delay: 2.056 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 333.29 Mbit/s
95th percentile per-packet one-way delay: 2.077 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 39.15 Mbit/s
95th percentile per-packet one-way delay: 1.254 ms
Loss rate: 0.02%
```

Run 4: Report of PCC-Allegro — Data Link

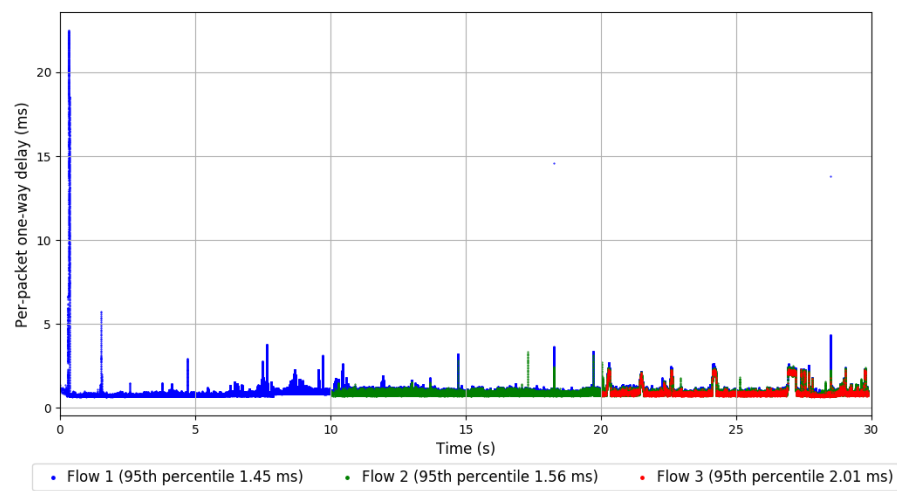
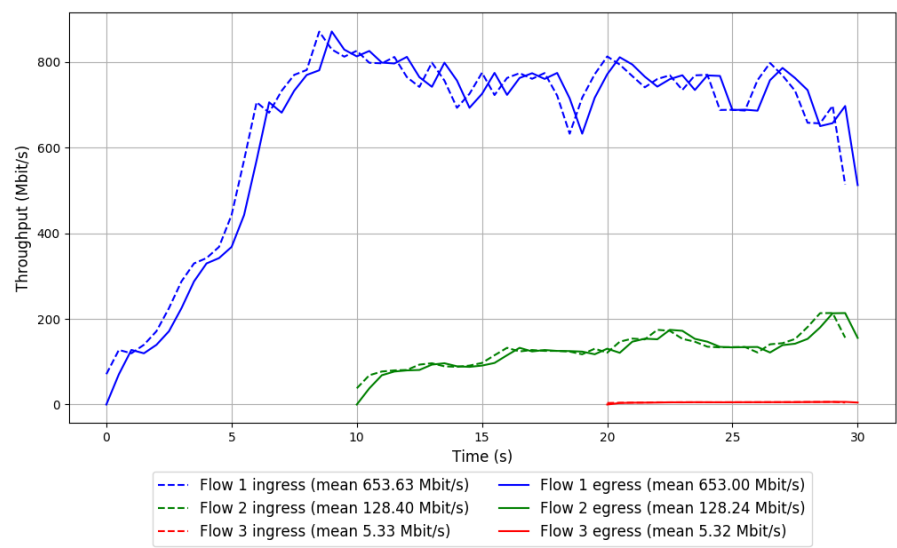


Run 5: Statistics of PCC-Allegro

Start at: 2018-12-11 14:31:57
End at: 2018-12-11 14:32:27
Local clock offset: 4.763 ms
Remote clock offset: -0.924 ms

Below is generated by plot.py at 2018-12-11 15:22:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 739.99 Mbit/s
95th percentile per-packet one-way delay: 1.465 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 653.00 Mbit/s
95th percentile per-packet one-way delay: 1.454 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 128.24 Mbit/s
95th percentile per-packet one-way delay: 1.557 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 5.32 Mbit/s
95th percentile per-packet one-way delay: 2.009 ms
Loss rate: 0.14%

Run 5: Report of PCC-Allegro — Data Link

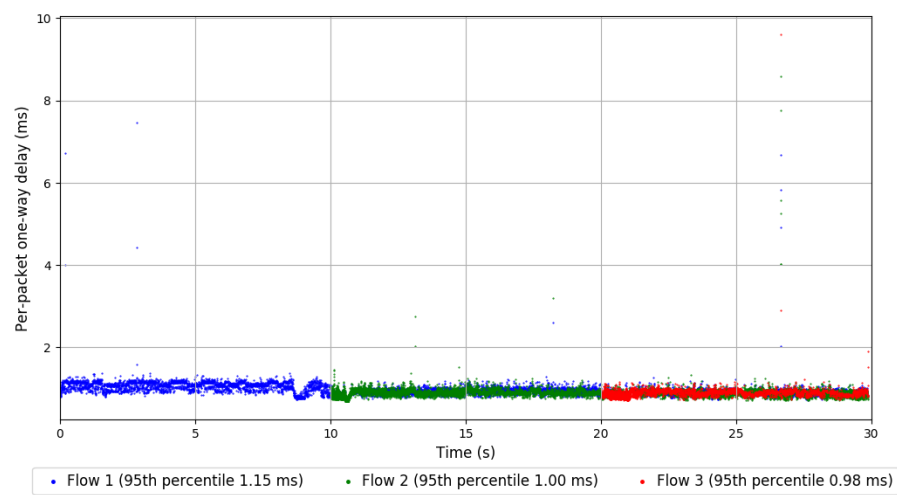
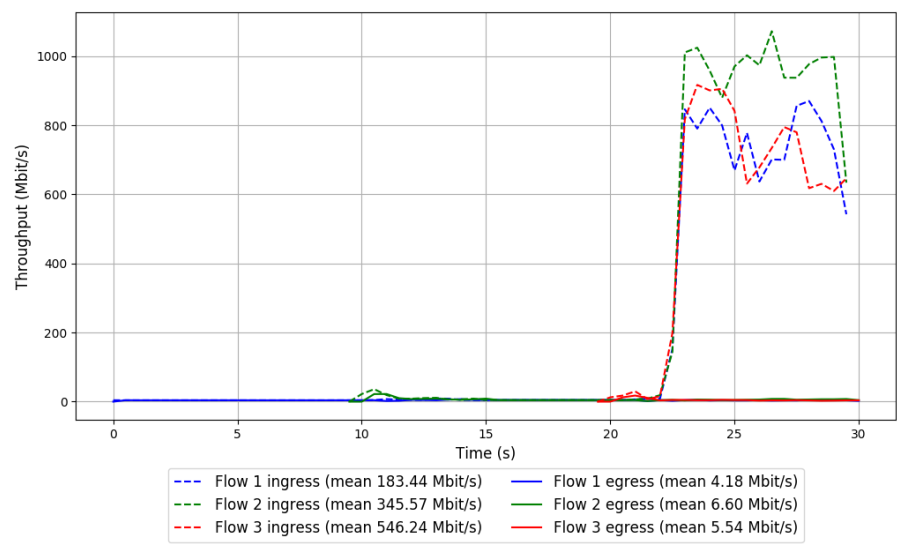


Run 1: Statistics of PCC-Expr

Start at: 2018-12-11 12:22:19
End at: 2018-12-11 12:22:49
Local clock offset: 4.636 ms
Remote clock offset: -3.283 ms

Below is generated by plot.py at 2018-12-11 15:22:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 10.41 Mbit/s
95th percentile per-packet one-way delay: 1.110 ms
Loss rate: 98.25%
-- Flow 1:
Average throughput: 4.18 Mbit/s
95th percentile per-packet one-way delay: 1.154 ms
Loss rate: 97.72%
-- Flow 2:
Average throughput: 6.60 Mbit/s
95th percentile per-packet one-way delay: 0.996 ms
Loss rate: 98.09%
-- Flow 3:
Average throughput: 5.54 Mbit/s
95th percentile per-packet one-way delay: 0.981 ms
Loss rate: 98.99%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-12-11 12:49:54

End at: 2018-12-11 12:50:24

Local clock offset: 4.68 ms

Remote clock offset: 2.537 ms

Below is generated by plot.py at 2018-12-11 15:22:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.83 Mbit/s

95th percentile per-packet one-way delay: 1.041 ms

Loss rate: 97.61%

-- Flow 1:

Average throughput: 6.36 Mbit/s

95th percentile per-packet one-way delay: 1.098 ms

Loss rate: 96.23%

-- Flow 2:

Average throughput: 6.23 Mbit/s

95th percentile per-packet one-way delay: 0.942 ms

Loss rate: 97.66%

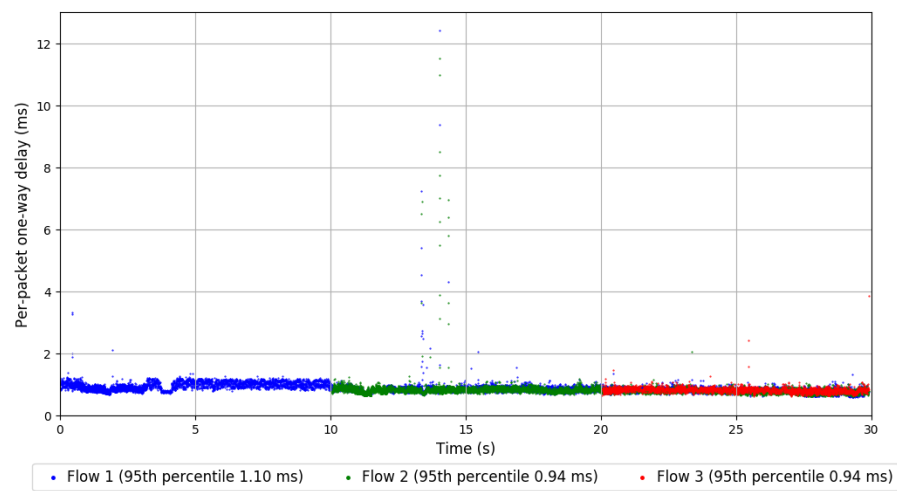
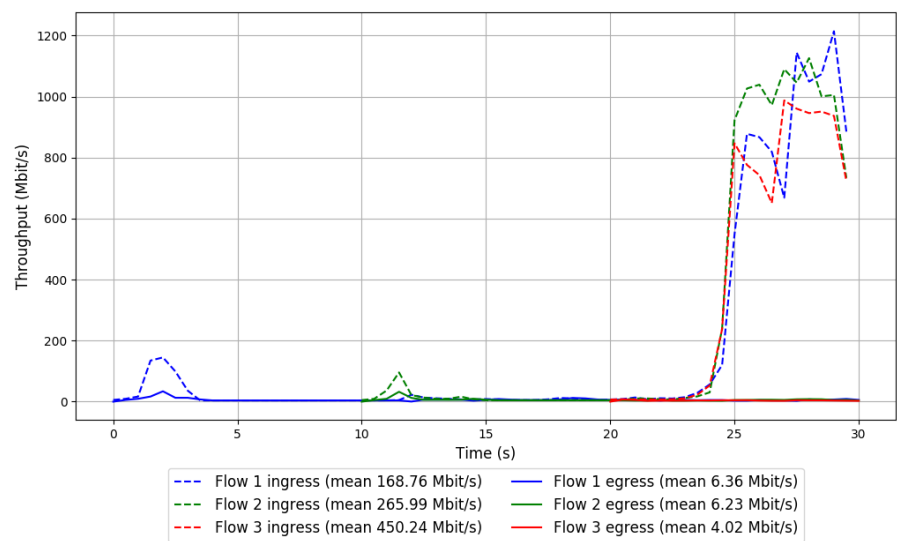
-- Flow 3:

Average throughput: 4.02 Mbit/s

95th percentile per-packet one-way delay: 0.940 ms

Loss rate: 99.11%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-12-11 13:17:32

End at: 2018-12-11 13:18:02

Local clock offset: 4.928 ms

Remote clock offset: 4.699 ms

Below is generated by plot.py at 2018-12-11 15:22:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.68 Mbit/s

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

Loss rate: 98.01%

-- Flow 1:

Average throughput: 4.89 Mbit/s

95th percentile per-packet one-way delay: 1.298 ms

Loss rate: 97.56%

-- Flow 2:

Average throughput: 5.75 Mbit/s

95th percentile per-packet one-way delay: 1.242 ms

Loss rate: 96.86%

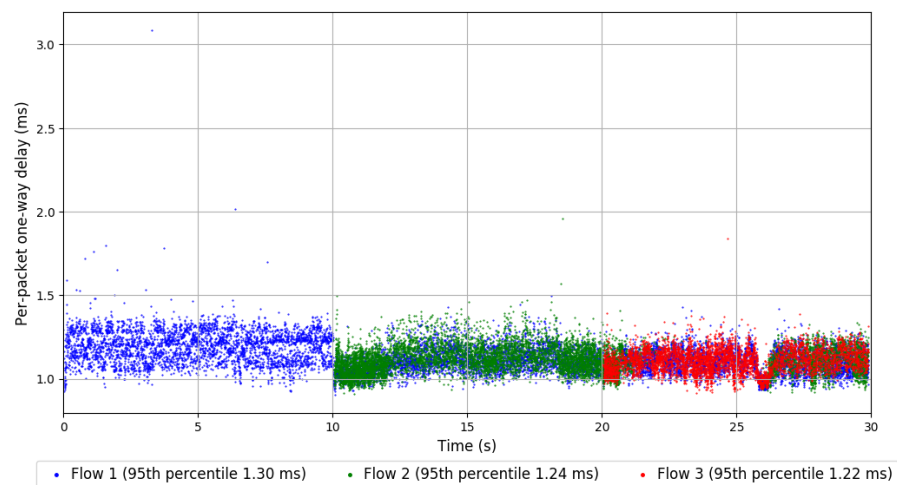
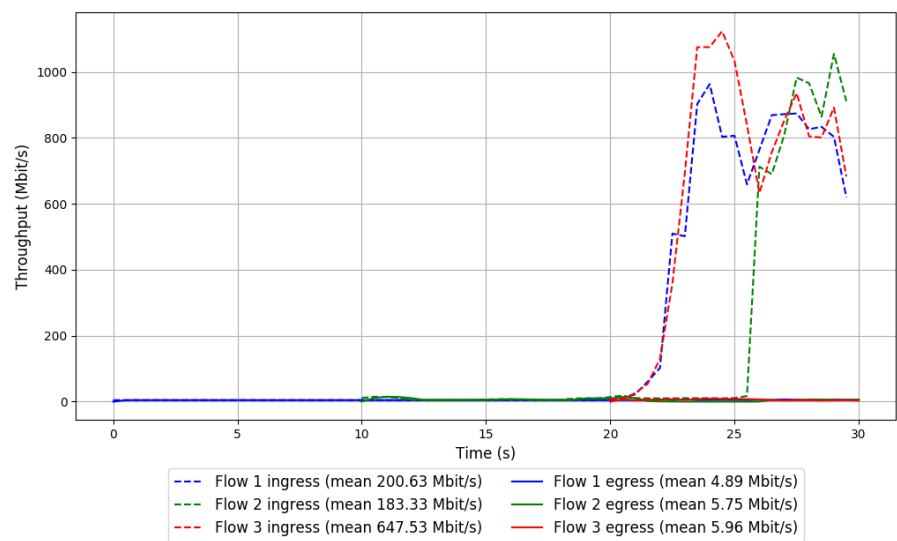
-- Flow 3:

Average throughput: 5.96 Mbit/s

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

Loss rate: 99.08%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-12-11 13:45:00

End at: 2018-12-11 13:45:30

Local clock offset: 5.196 ms

Remote clock offset: 4.663 ms

Below is generated by plot.py at 2018-12-11 15:22:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.90 Mbit/s

95th percentile per-packet one-way delay: 1.091 ms

Loss rate: 98.24%

-- Flow 1:

Average throughput: 7.05 Mbit/s

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

Loss rate: 98.27%

-- Flow 2:

Average throughput: 9.32 Mbit/s

95th percentile per-packet one-way delay: 1.028 ms

Loss rate: 98.89%

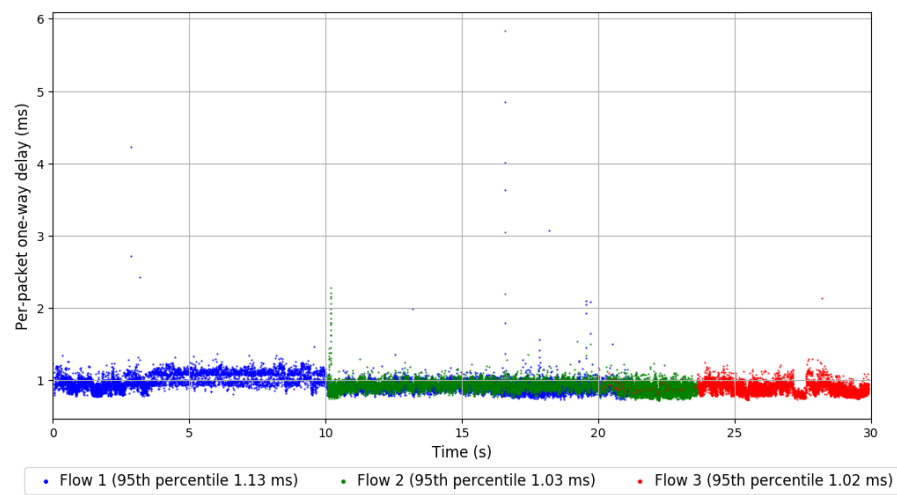
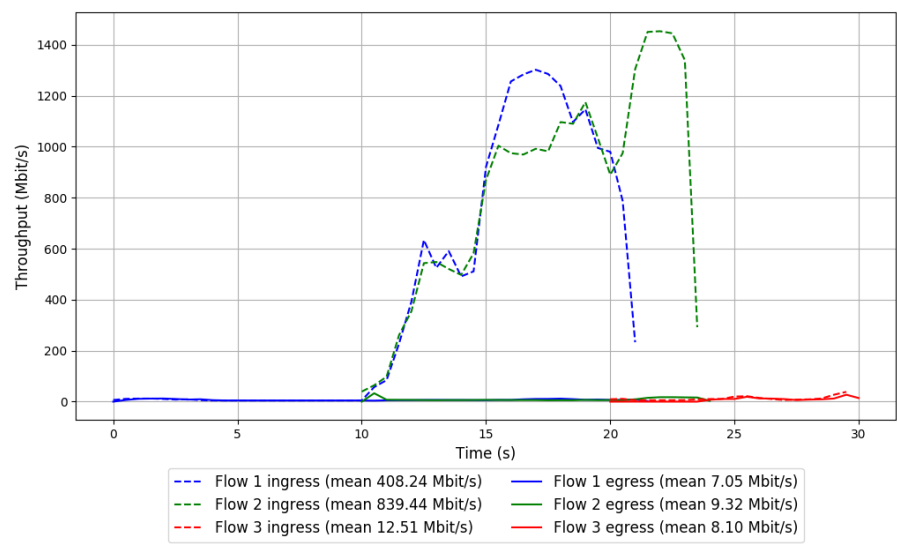
-- Flow 3:

Average throughput: 8.10 Mbit/s

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

Loss rate: 35.28%

Run 4: Report of PCC-Expr — Data Link

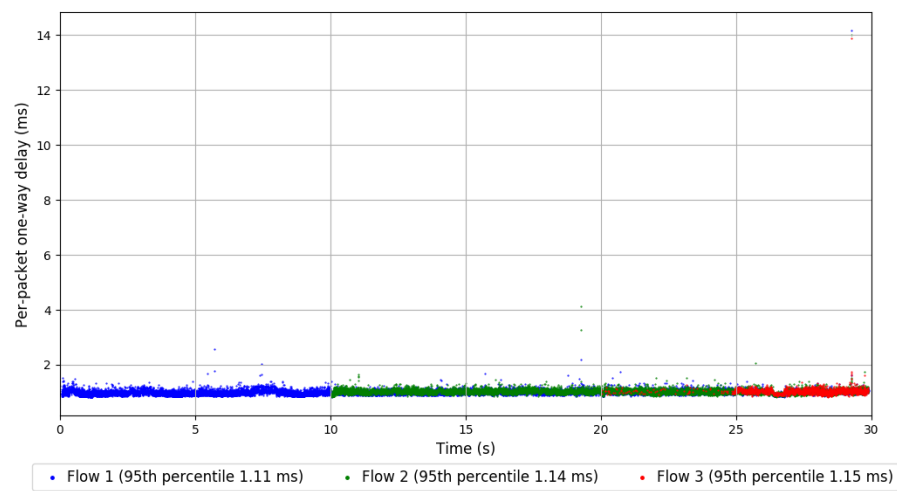
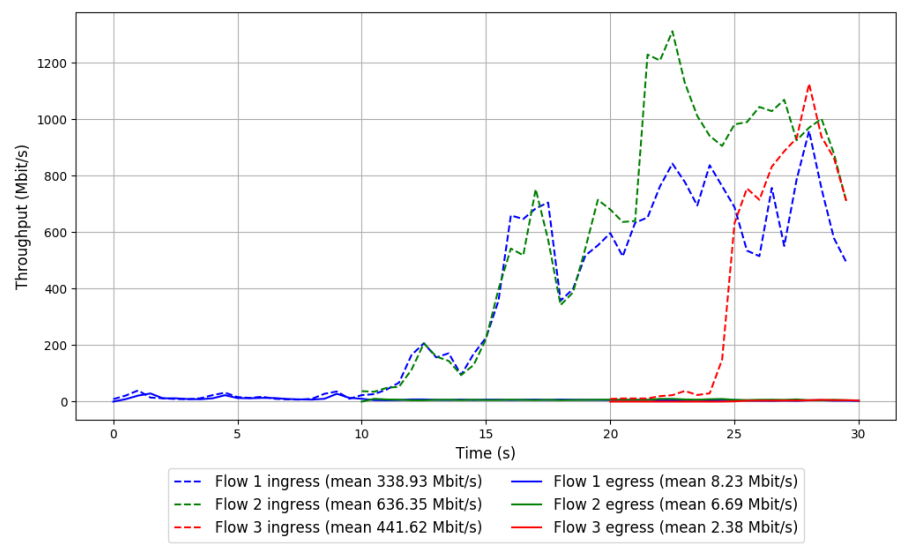


Run 5: Statistics of PCC-Expr

Start at: 2018-12-11 14:12:31
End at: 2018-12-11 14:13:01
Local clock offset: 5.097 ms
Remote clock offset: -1.231 ms

Below is generated by plot.py at 2018-12-11 15:23:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.46 Mbit/s
95th percentile per-packet one-way delay: 1.130 ms
Loss rate: 98.52%
-- Flow 1:
Average throughput: 8.23 Mbit/s
95th percentile per-packet one-way delay: 1.115 ms
Loss rate: 97.57%
-- Flow 2:
Average throughput: 6.69 Mbit/s
95th percentile per-packet one-way delay: 1.142 ms
Loss rate: 98.95%
-- Flow 3:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 1.153 ms
Loss rate: 99.46%

Run 5: Report of PCC-Expr — Data Link

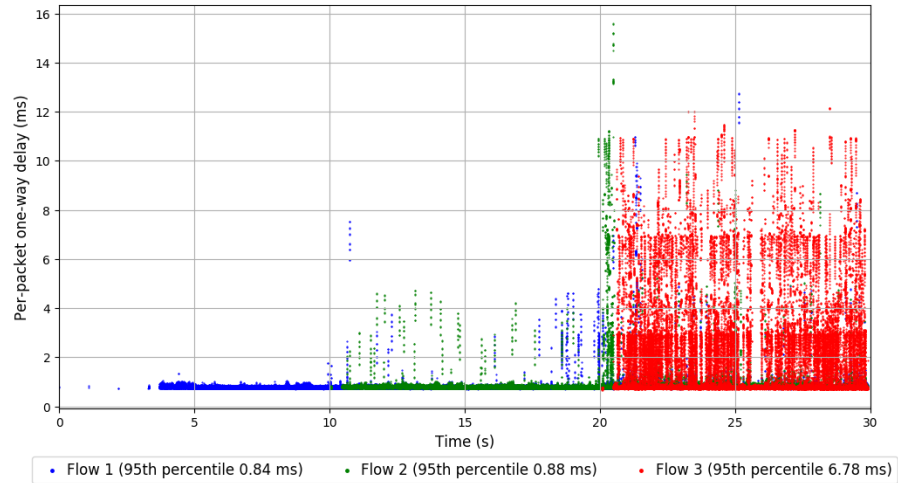
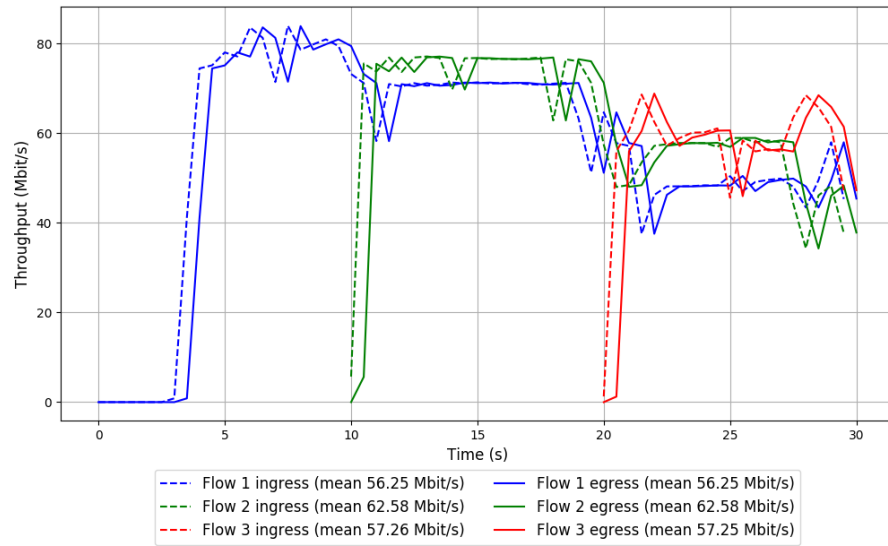


Run 1: Statistics of QUIC Cubic

Start at: 2018-12-11 12:31:25
End at: 2018-12-11 12:31:55
Local clock offset: 4.605 ms
Remote clock offset: -2.912 ms

Below is generated by plot.py at 2018-12-11 15:23:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 116.62 Mbit/s
95th percentile per-packet one-way delay: 2.471 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 56.25 Mbit/s
95th percentile per-packet one-way delay: 0.844 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 62.58 Mbit/s
95th percentile per-packet one-way delay: 0.878 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 57.25 Mbit/s
95th percentile per-packet one-way delay: 6.784 ms
Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-12-11 12:58:59

End at: 2018-12-11 12:59:29

Local clock offset: 4.683 ms

Remote clock offset: 4.24 ms

Below is generated by plot.py at 2018-12-11 15:23:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.90 Mbit/s

95th percentile per-packet one-way delay: 0.825 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.40 Mbit/s

95th percentile per-packet one-way delay: 0.787 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.95 Mbit/s

95th percentile per-packet one-way delay: 0.829 ms

Loss rate: 0.00%

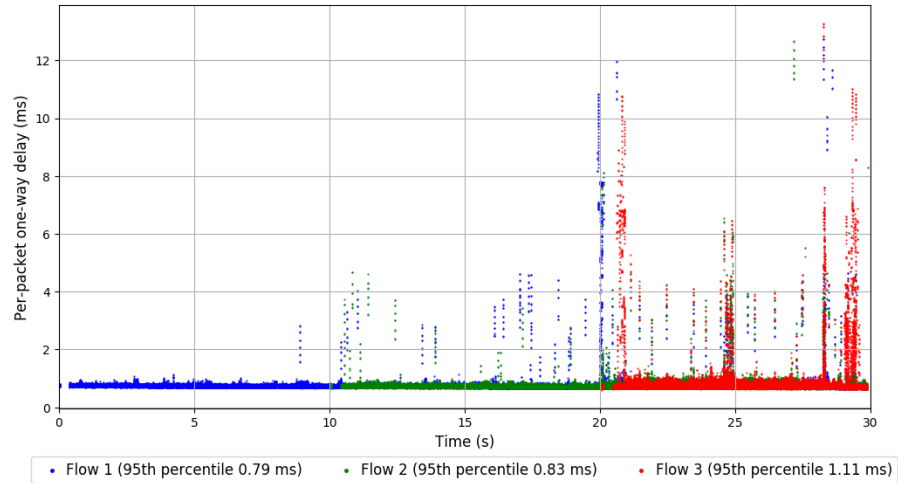
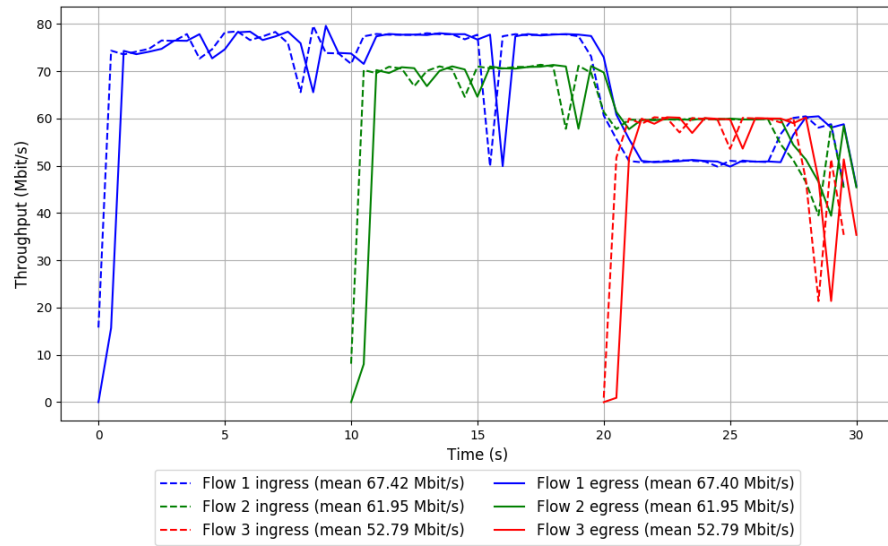
-- Flow 3:

Average throughput: 52.79 Mbit/s

95th percentile per-packet one-way delay: 1.112 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-12-11 13:26:36

End at: 2018-12-11 13:27:06

Local clock offset: 5.048 ms

Remote clock offset: 3.995 ms

Below is generated by plot.py at 2018-12-11 15:23:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 122.31 Mbit/s

95th percentile per-packet one-way delay: 2.733 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 63.92 Mbit/s

95th percentile per-packet one-way delay: 1.763 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.79 Mbit/s

95th percentile per-packet one-way delay: 2.834 ms

Loss rate: 0.00%

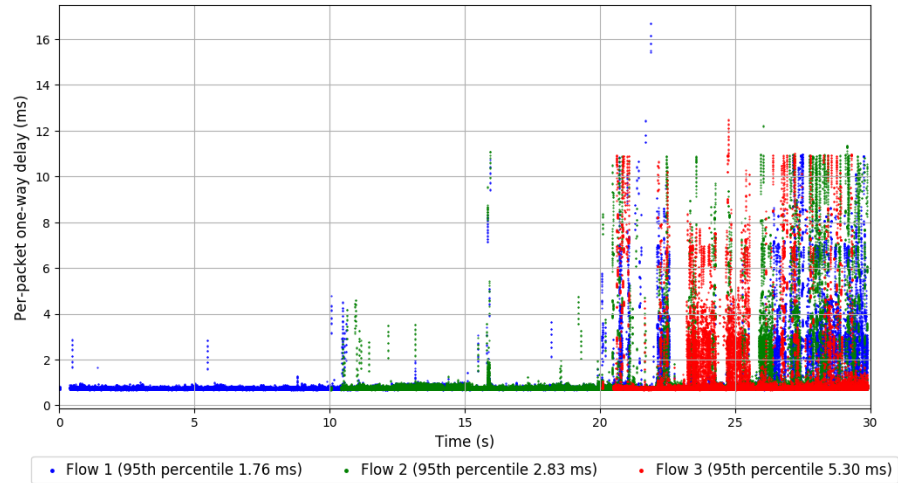
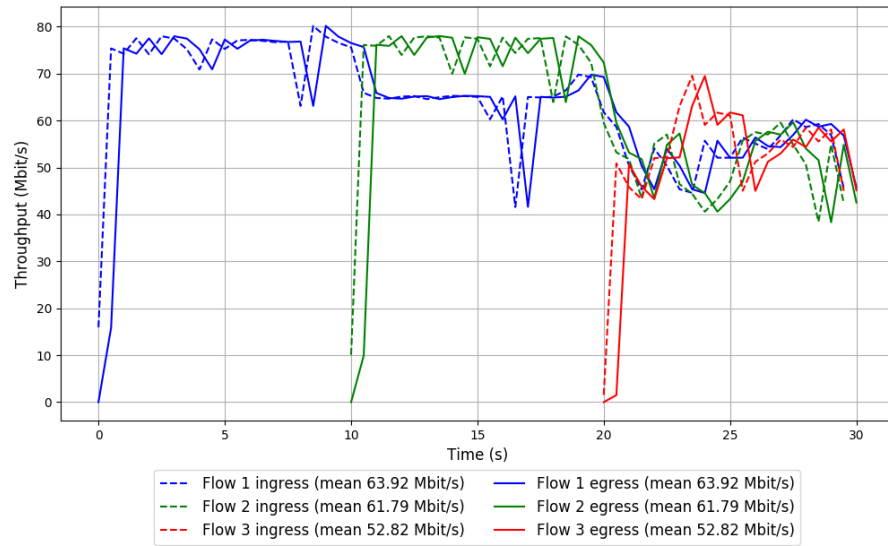
-- Flow 3:

Average throughput: 52.82 Mbit/s

95th percentile per-packet one-way delay: 5.305 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-12-11 13:54:05

End at: 2018-12-11 13:54:35

Local clock offset: 5.284 ms

Remote clock offset: 1.211 ms

Below is generated by plot.py at 2018-12-11 15:23:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 126.13 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 69.14 Mbit/s

95th percentile per-packet one-way delay: 1.086 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.49 Mbit/s

95th percentile per-packet one-way delay: 2.923 ms

Loss rate: 0.00%

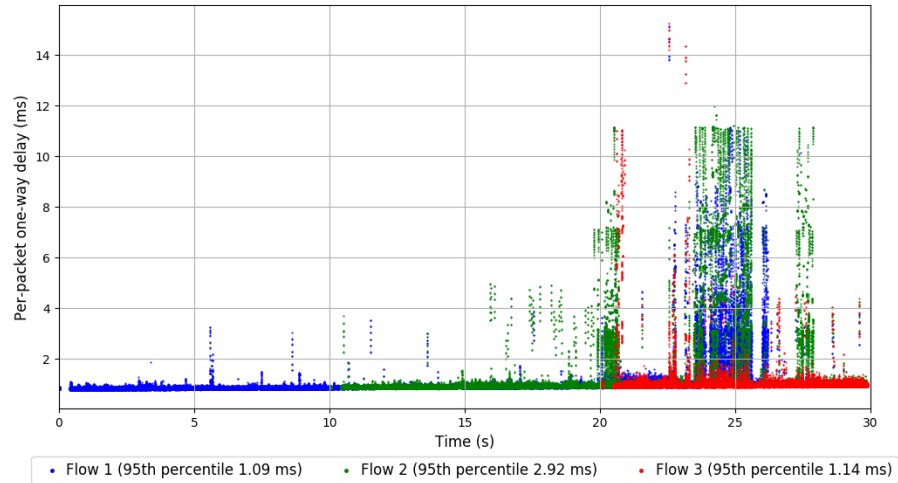
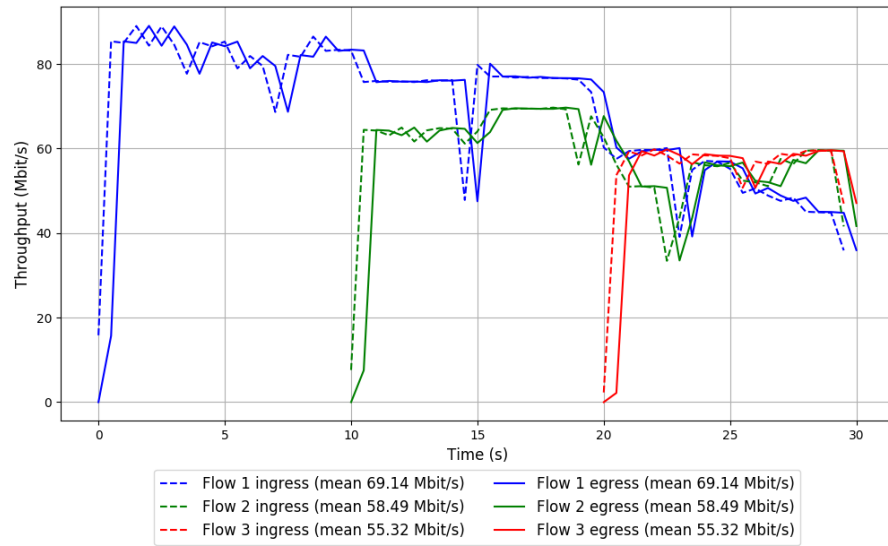
-- Flow 3:

Average throughput: 55.32 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link

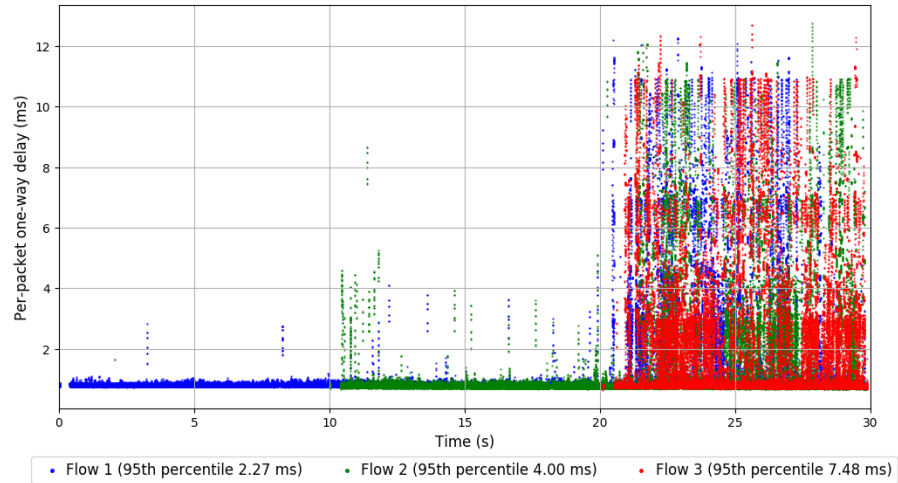
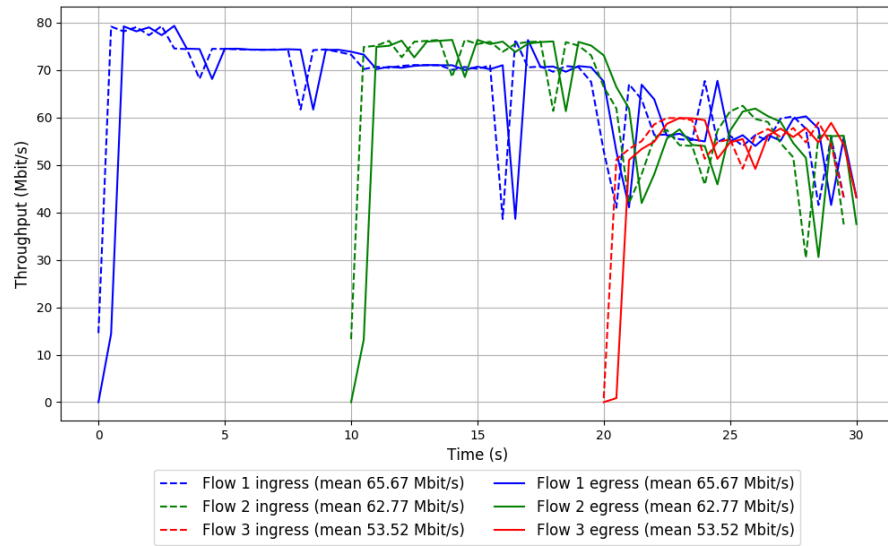


Run 5: Statistics of QUIC Cubic

Start at: 2018-12-11 14:21:49
End at: 2018-12-11 14:22:19
Local clock offset: 4.859 ms
Remote clock offset: -1.511 ms

Below is generated by plot.py at 2018-12-11 15:23:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 124.93 Mbit/s
95th percentile per-packet one-way delay: 4.218 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 65.67 Mbit/s
95th percentile per-packet one-way delay: 2.267 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 62.77 Mbit/s
95th percentile per-packet one-way delay: 3.998 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 53.52 Mbit/s
95th percentile per-packet one-way delay: 7.484 ms
Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

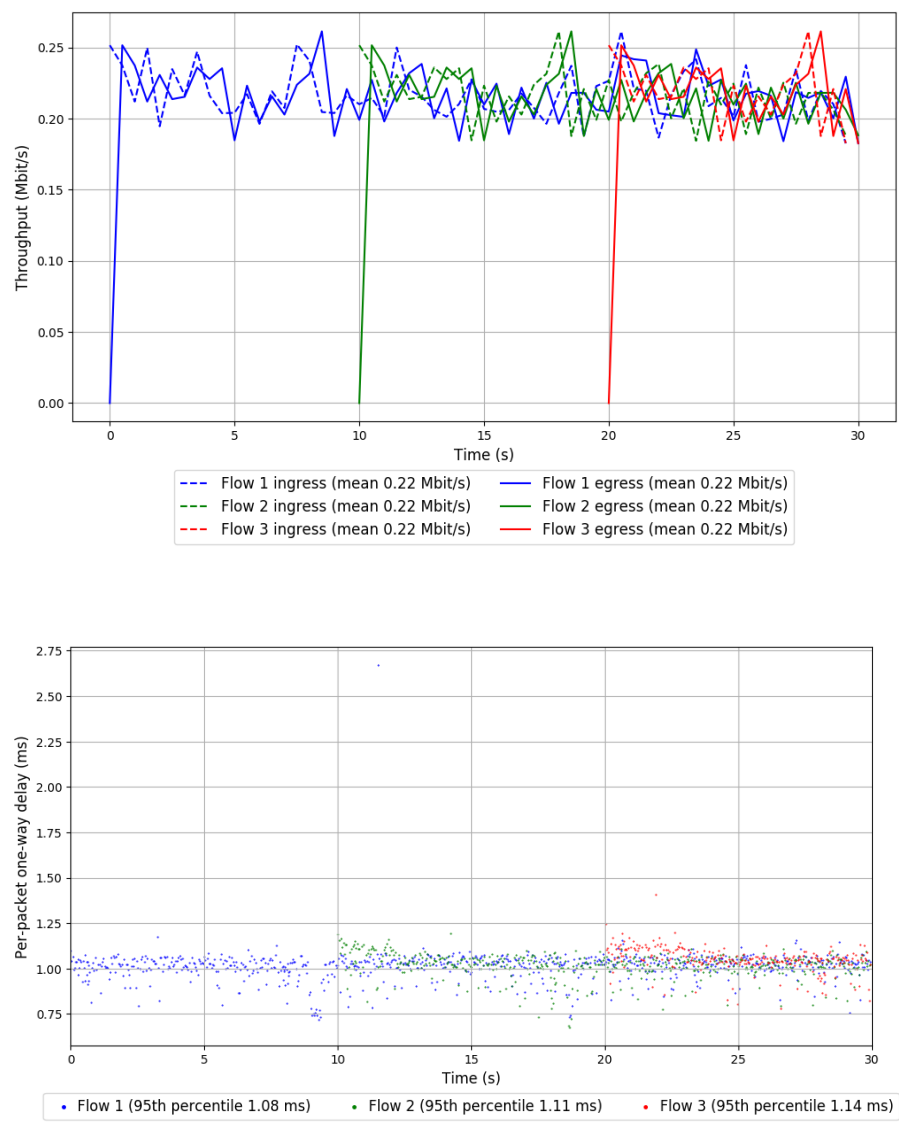


Run 1: Statistics of SReAM

Start at: 2018-12-11 12:28:49
End at: 2018-12-11 12:29:19
Local clock offset: 4.629 ms
Remote clock offset: -3.035 ms

Below is generated by plot.py at 2018-12-11 15:23:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 1.109 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.077 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.108 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.136 ms
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-12-11 12:56:23

End at: 2018-12-11 12:56:53

Local clock offset: 4.709 ms

Remote clock offset: 3.816 ms

Below is generated by plot.py at 2018-12-11 15:23:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 1.105 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.114 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

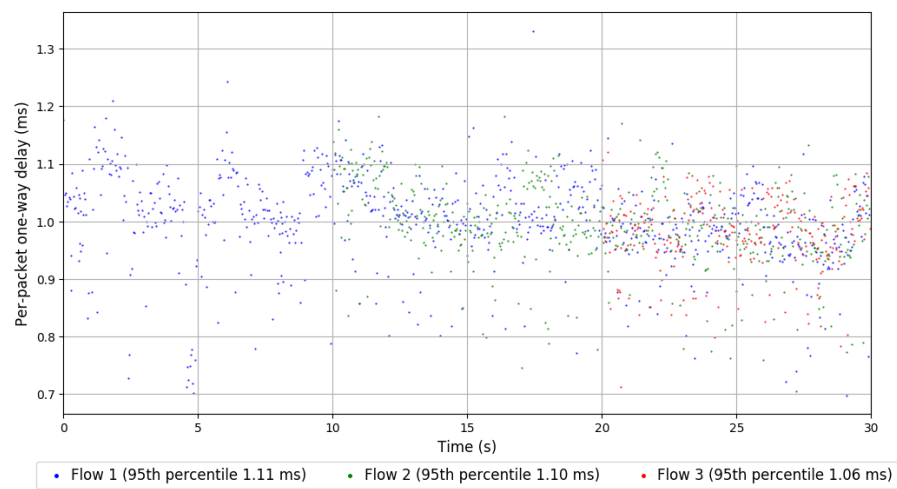
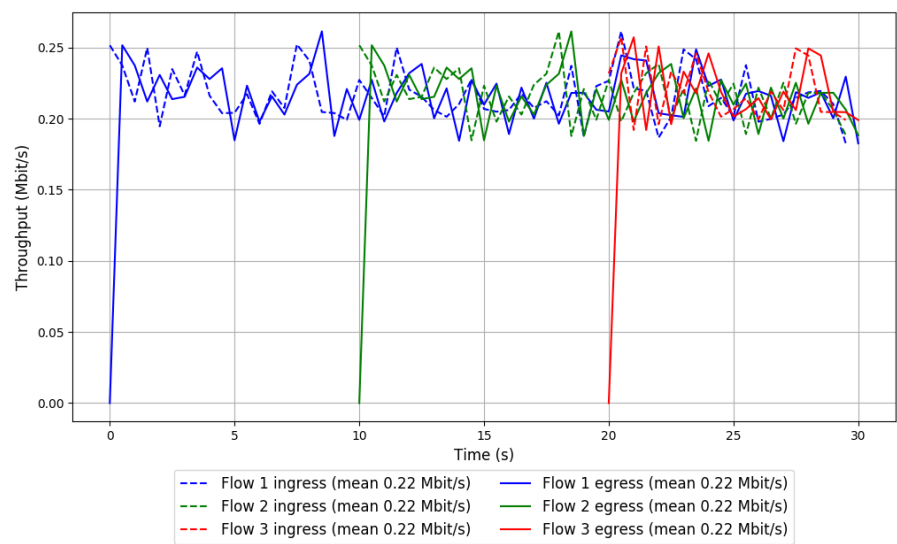
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.062 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-12-11 13:23:59

End at: 2018-12-11 13:24:29

Local clock offset: 5.034 ms

Remote clock offset: 4.159 ms

Below is generated by plot.py at 2018-12-11 15:23:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 1.348 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.358 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.298 ms

Loss rate: 0.00%

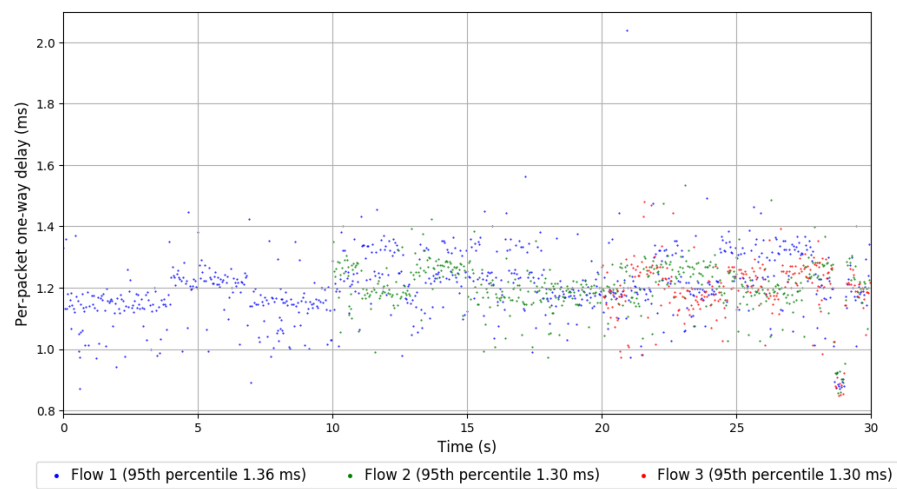
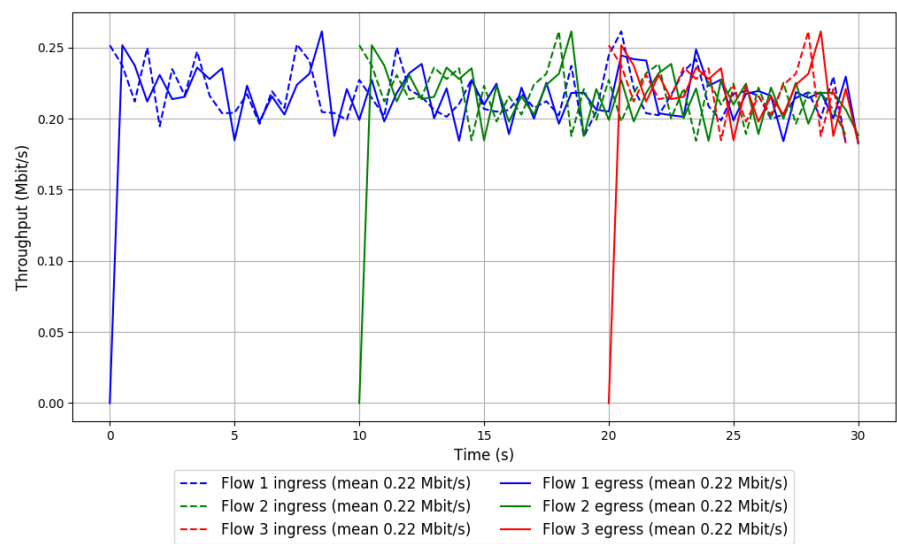
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.296 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-12-11 13:51:28

End at: 2018-12-11 13:51:58

Local clock offset: 5.253 ms

Remote clock offset: 2.032 ms

Below is generated by plot.py at 2018-12-11 15:23:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 1.478 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.423 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.430 ms

Loss rate: 0.00%

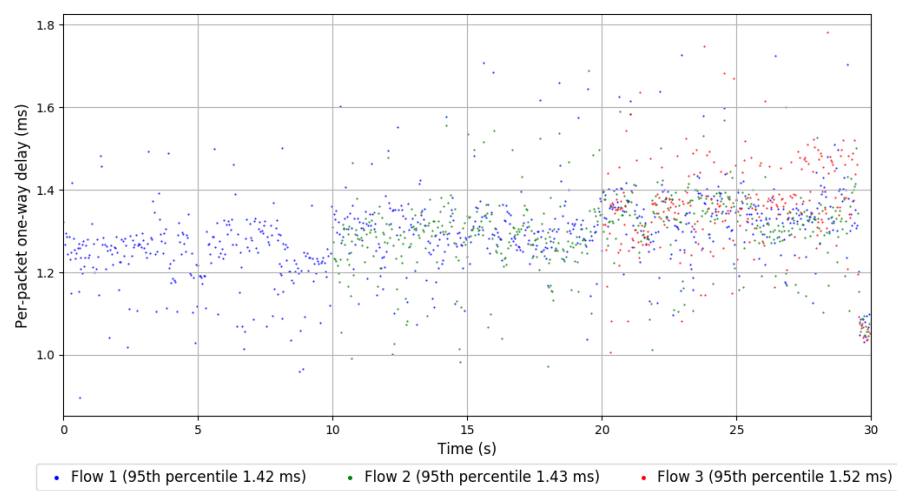
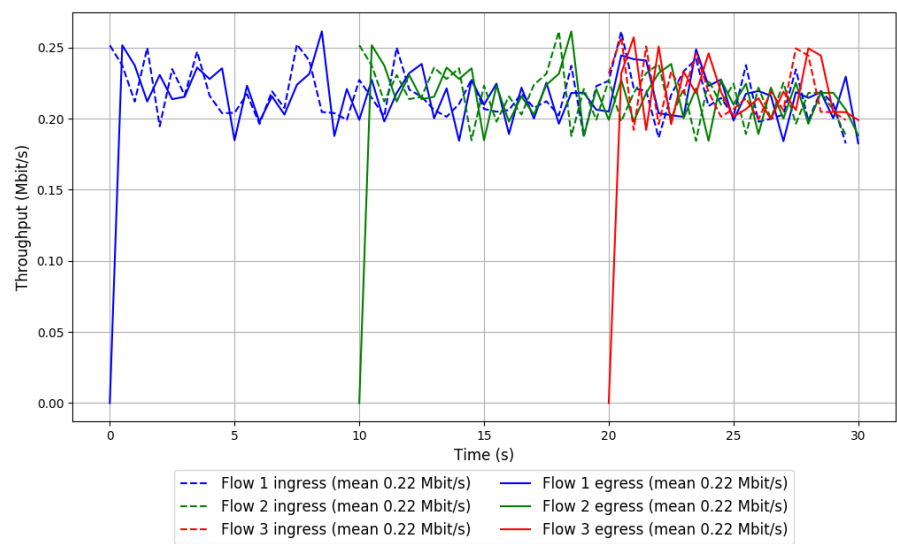
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.518 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

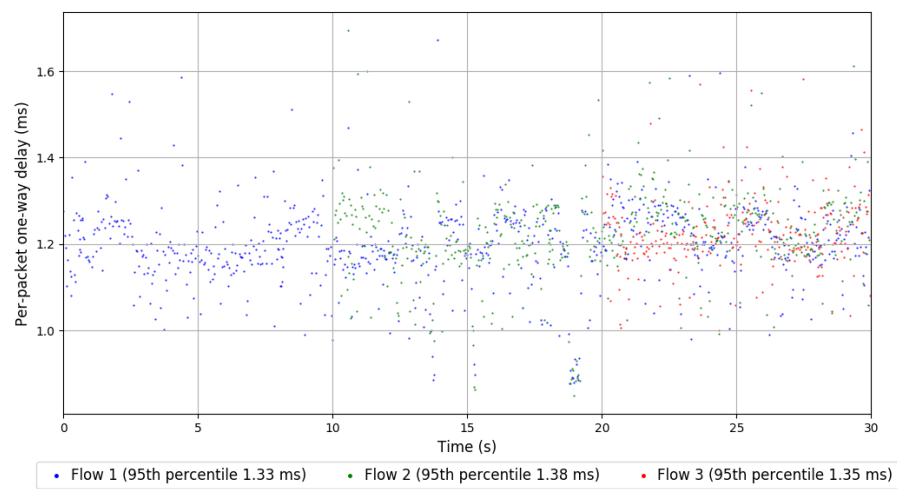
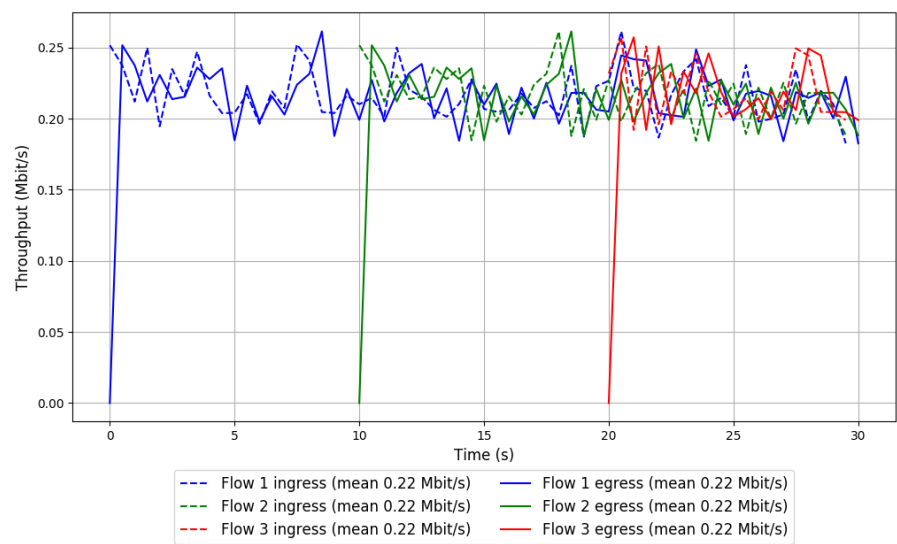


Run 5: Statistics of SReAM

Start at: 2018-12-11 14:19:09
End at: 2018-12-11 14:19:39
Local clock offset: 4.903 ms
Remote clock offset: -1.646 ms

Below is generated by plot.py at 2018-12-11 15:23:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 1.348 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.326 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.376 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.352 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

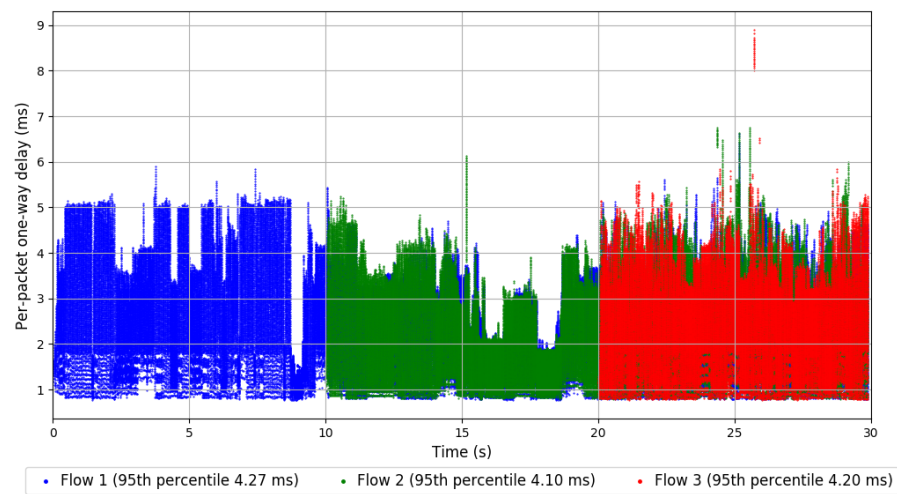
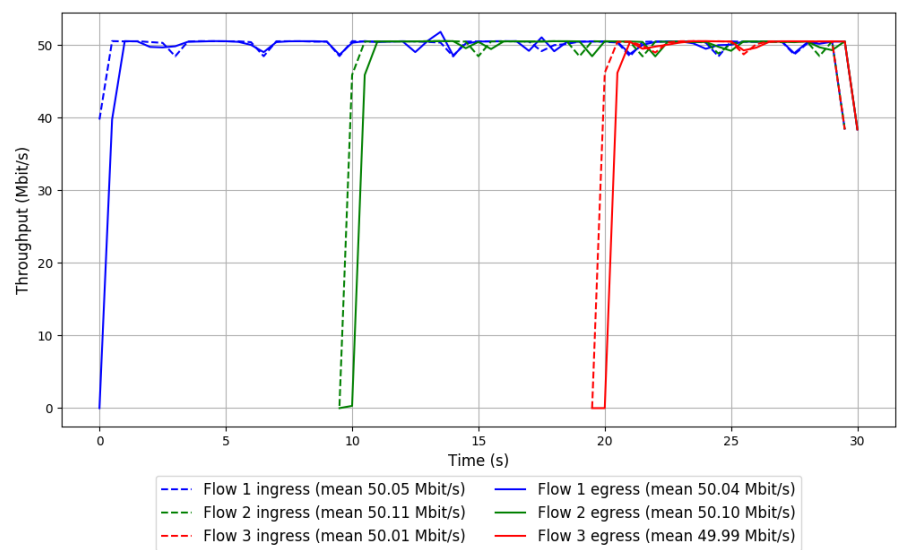


Run 1: Statistics of Sprout

Start at: 2018-12-11 12:19:49
End at: 2018-12-11 12:20:19
Local clock offset: 4.643 ms
Remote clock offset: -3.326 ms

Below is generated by plot.py at 2018-12-11 15:23:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 99.95 Mbit/s
95th percentile per-packet one-way delay: 4.193 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.04 Mbit/s
95th percentile per-packet one-way delay: 4.266 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 50.10 Mbit/s
95th percentile per-packet one-way delay: 4.096 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 49.99 Mbit/s
95th percentile per-packet one-way delay: 4.197 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-12-11 12:47:24

End at: 2018-12-11 12:47:54

Local clock offset: 4.679 ms

Remote clock offset: 1.861 ms

Below is generated by plot.py at 2018-12-11 15:23:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.60 Mbit/s

95th percentile per-packet one-way delay: 4.483 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 50.04 Mbit/s

95th percentile per-packet one-way delay: 4.505 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 49.91 Mbit/s

95th percentile per-packet one-way delay: 4.476 ms

Loss rate: 0.09%

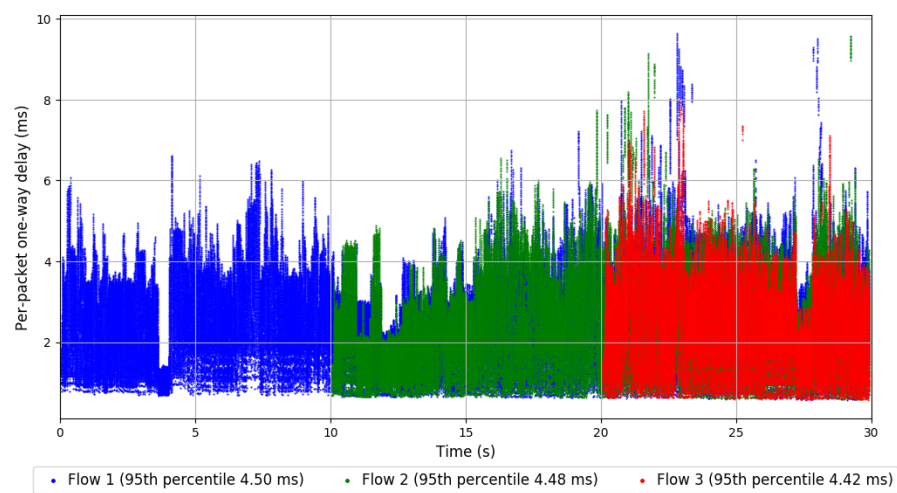
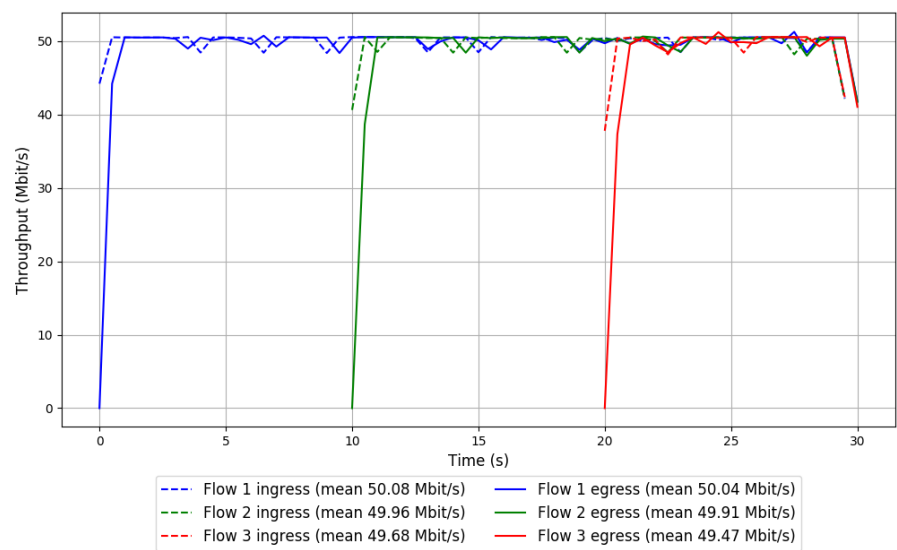
-- Flow 3:

Average throughput: 49.47 Mbit/s

95th percentile per-packet one-way delay: 4.416 ms

Loss rate: 0.40%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-12-11 13:15:02

End at: 2018-12-11 13:15:32

Local clock offset: 4.892 ms

Remote clock offset: 5.12 ms

Below is generated by plot.py at 2018-12-11 15:23:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.47 Mbit/s

95th percentile per-packet one-way delay: 4.752 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 49.97 Mbit/s

95th percentile per-packet one-way delay: 4.600 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 49.81 Mbit/s

95th percentile per-packet one-way delay: 4.858 ms

Loss rate: 0.14%

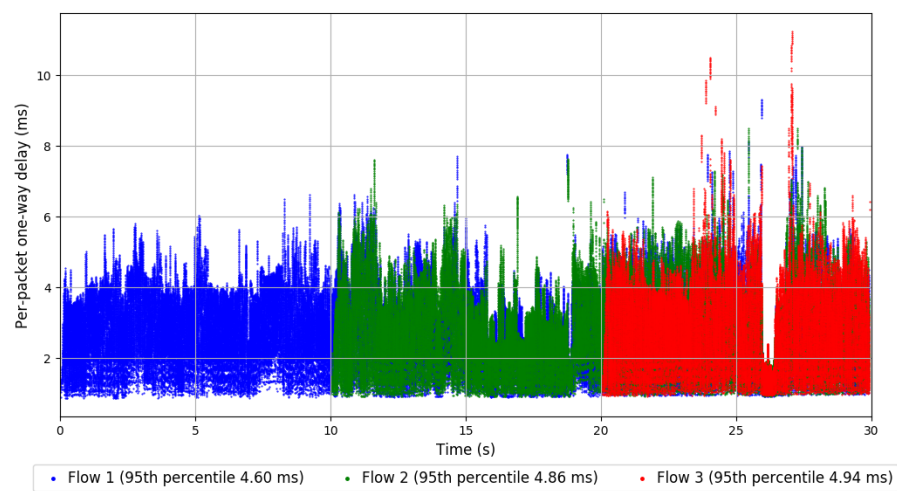
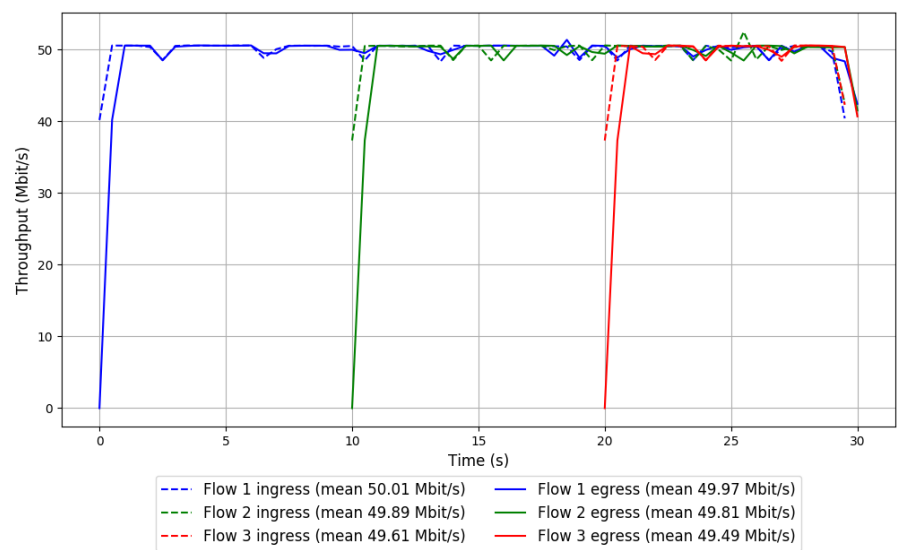
-- Flow 3:

Average throughput: 49.49 Mbit/s

95th percentile per-packet one-way delay: 4.941 ms

Loss rate: 0.18%

Run 3: Report of Sprout — Data Link

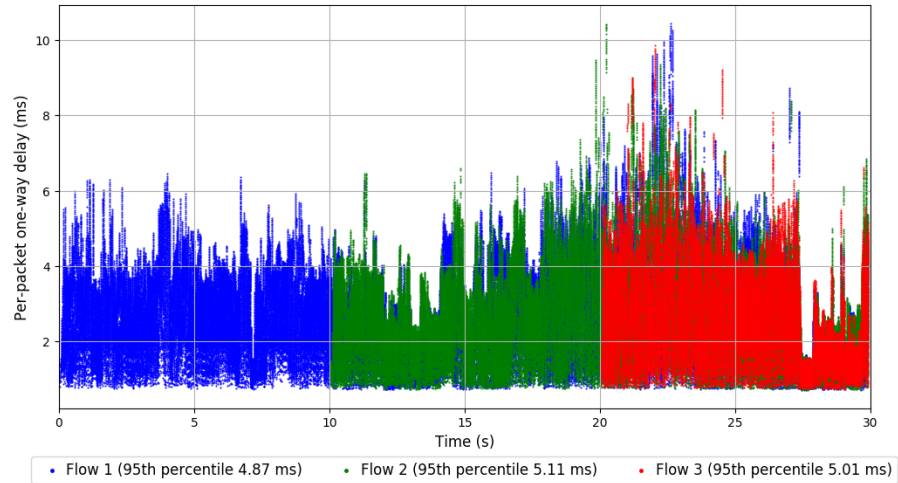
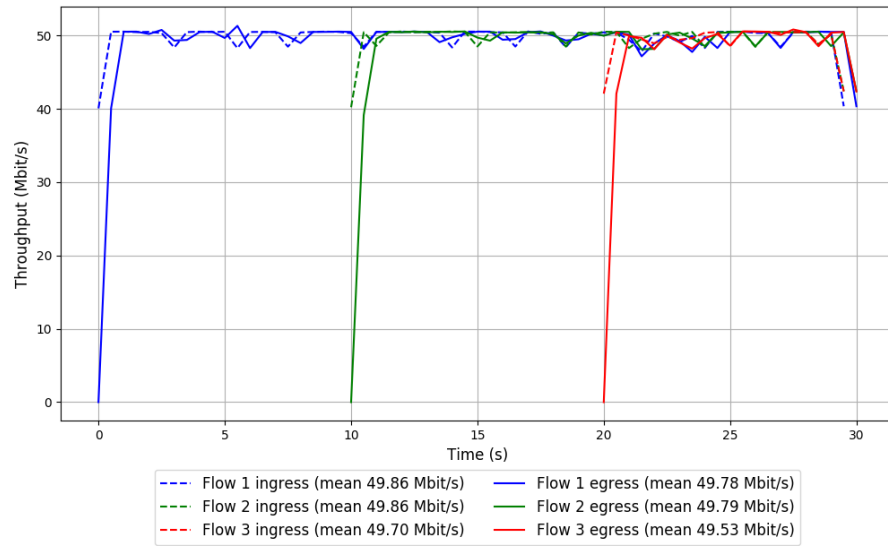


Run 4: Statistics of Sprout

Start at: 2018-12-11 13:42:30
End at: 2018-12-11 13:43:00
Local clock offset: 5.182 ms
Remote clock offset: 4.512 ms

```
# Below is generated by plot.py at 2018-12-11 15:23:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 99.26 Mbit/s
95th percentile per-packet one-way delay: 4.976 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 49.78 Mbit/s
95th percentile per-packet one-way delay: 4.870 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 49.79 Mbit/s
95th percentile per-packet one-way delay: 5.114 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 49.53 Mbit/s
95th percentile per-packet one-way delay: 5.012 ms
Loss rate: 0.30%
```

Run 4: Report of Sprout — Data Link

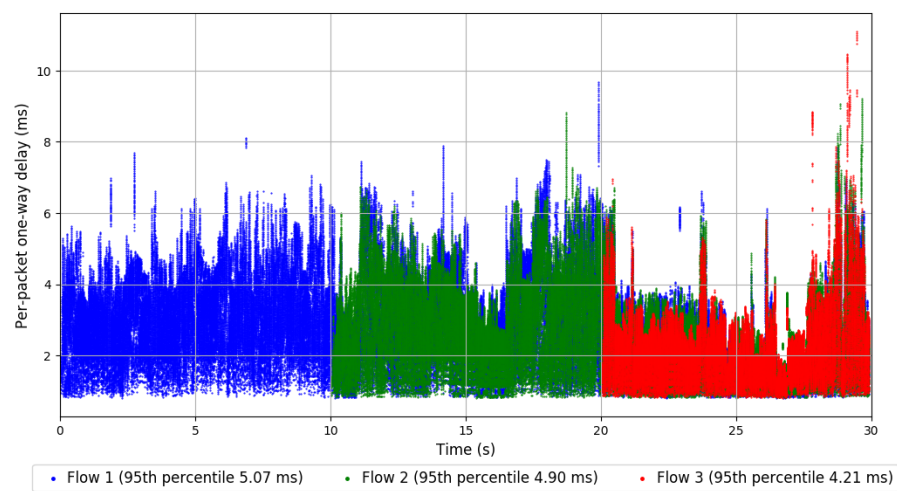
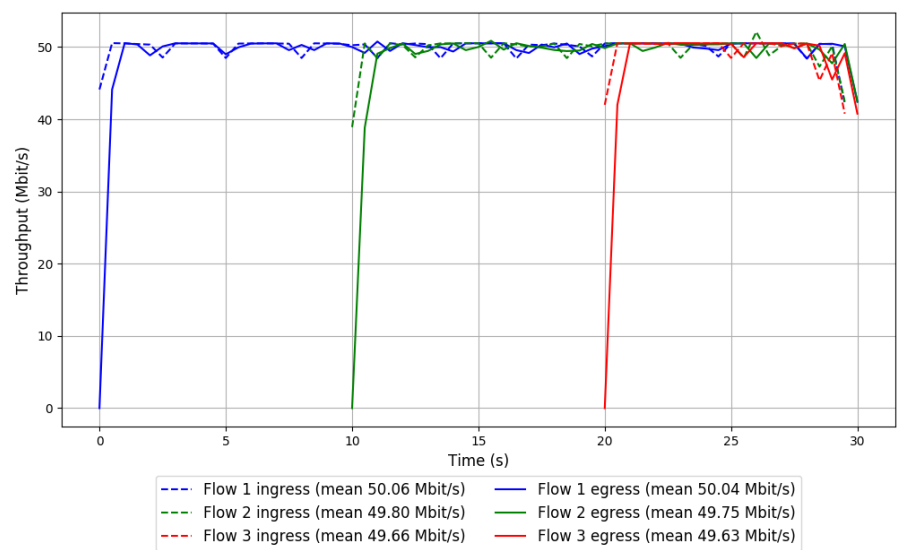


Run 5: Statistics of Sprout

Start at: 2018-12-11 14:10:01
End at: 2018-12-11 14:10:31
Local clock offset: 5.21 ms
Remote clock offset: -1.069 ms

Below is generated by plot.py at 2018-12-11 15:23:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 99.56 Mbit/s
95th percentile per-packet one-way delay: 4.929 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 50.04 Mbit/s
95th percentile per-packet one-way delay: 5.065 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 49.75 Mbit/s
95th percentile per-packet one-way delay: 4.904 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 49.63 Mbit/s
95th percentile per-packet one-way delay: 4.212 ms
Loss rate: 0.05%

Run 5: Report of Sprout — Data Link

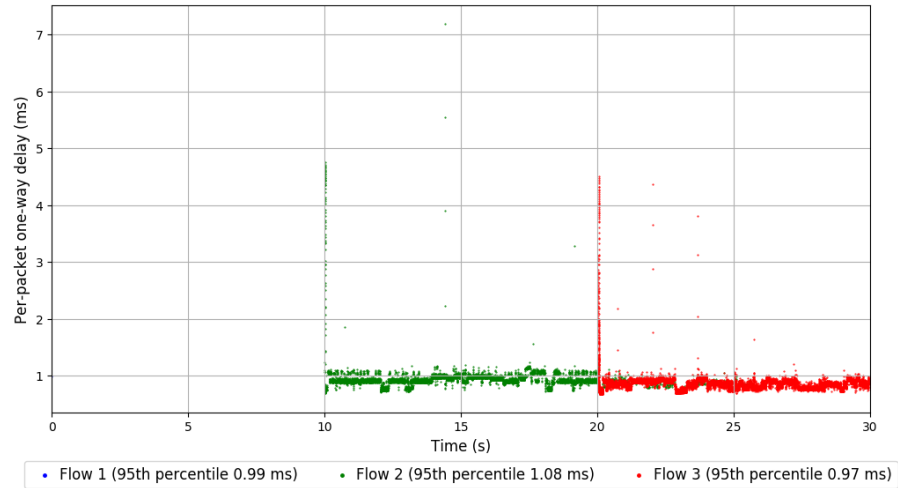
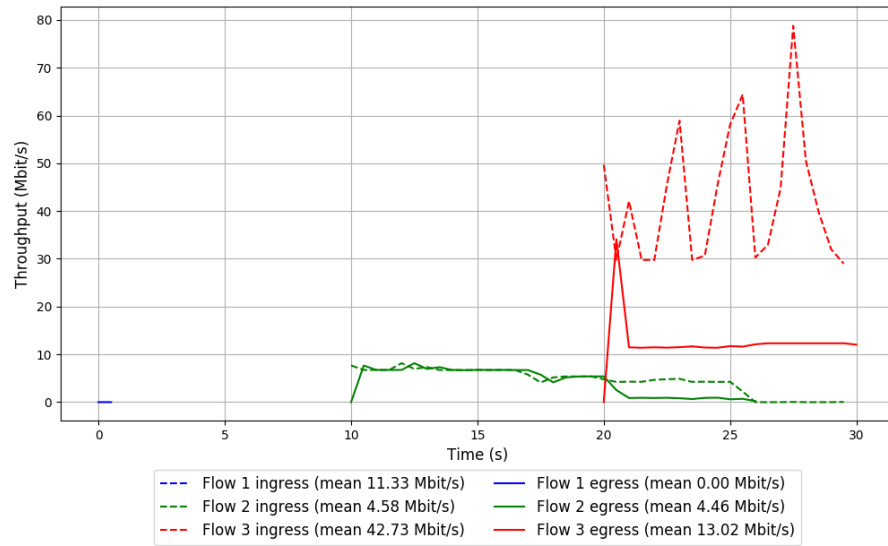


Run 1: Statistics of TaoVA-100x

Start at: 2018-12-11 12:21:05
End at: 2018-12-11 12:21:35
Local clock offset: 4.642 ms
Remote clock offset: -3.331 ms

Below is generated by plot.py at 2018-12-11 15:23:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.65 Mbit/s
95th percentile per-packet one-way delay: 1.043 ms
Loss rate: 61.32%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 0.986 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 4.46 Mbit/s
95th percentile per-packet one-way delay: 1.080 ms
Loss rate: 22.43%
-- Flow 3:
Average throughput: 13.02 Mbit/s
95th percentile per-packet one-way delay: 0.968 ms
Loss rate: 69.53%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-12-11 12:48:40

End at: 2018-12-11 12:49:10

Local clock offset: 4.693 ms

Remote clock offset: 2.256 ms

Below is generated by plot.py at 2018-12-11 15:23:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.62 Mbit/s

95th percentile per-packet one-way delay: 1.072 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 1.117 ms

Loss rate: 95.92%

-- Flow 2:

Average throughput: 6.61 Mbit/s

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

Loss rate: 0.03%

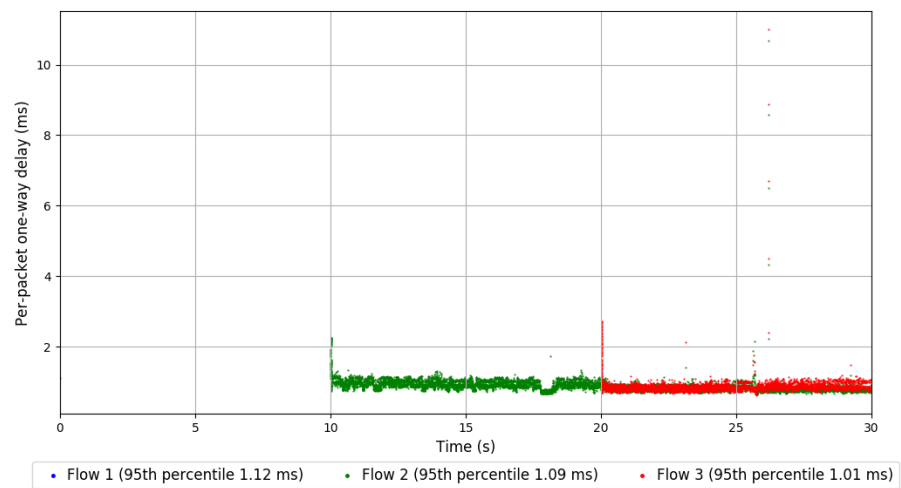
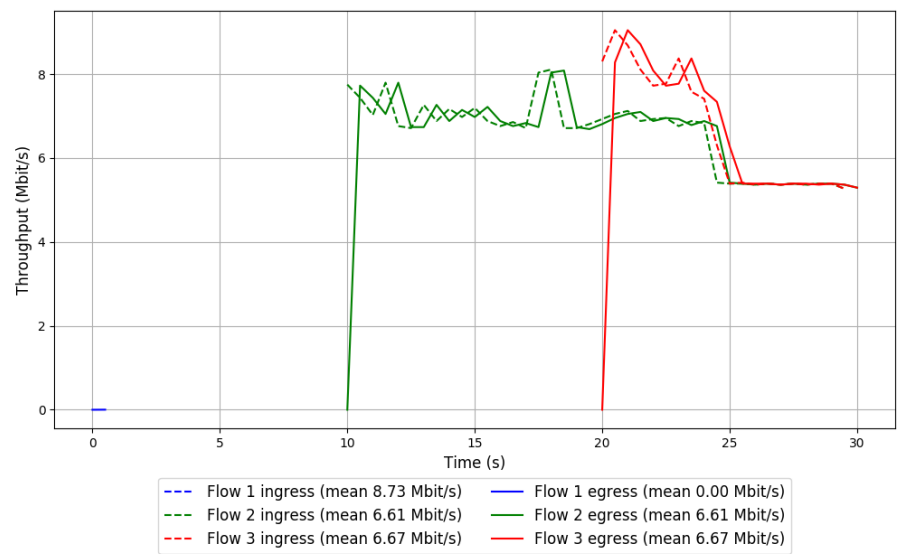
-- Flow 3:

Average throughput: 6.67 Mbit/s

95th percentile per-packet one-way delay: 1.014 ms

Loss rate: 0.07%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-12-11 13:16:18

End at: 2018-12-11 13:16:48

Local clock offset: 4.905 ms

Remote clock offset: 4.897 ms

Below is generated by plot.py at 2018-12-11 15:23:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.47 Mbit/s

95th percentile per-packet one-way delay: 1.311 ms

Loss rate: 61.53%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 1.193 ms

Loss rate: 95.92%

-- Flow 2:

Average throughput: 3.38 Mbit/s

95th percentile per-packet one-way delay: 1.351 ms

Loss rate: 33.55%

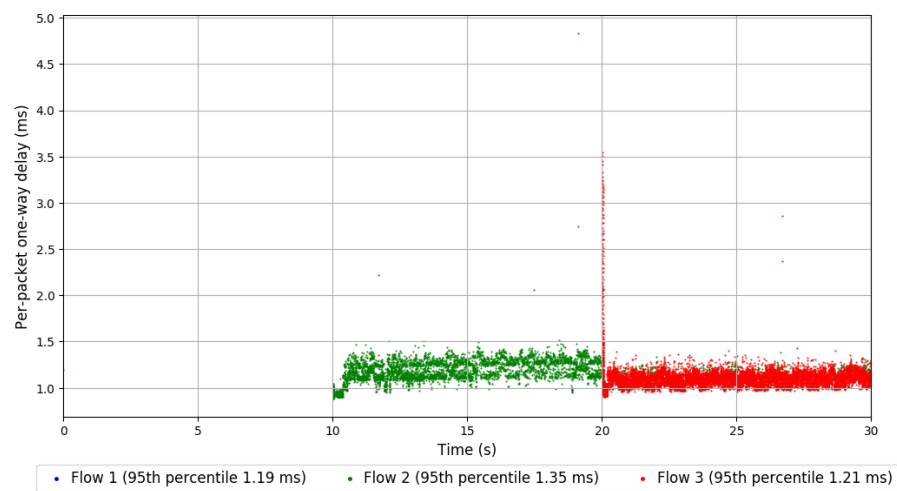
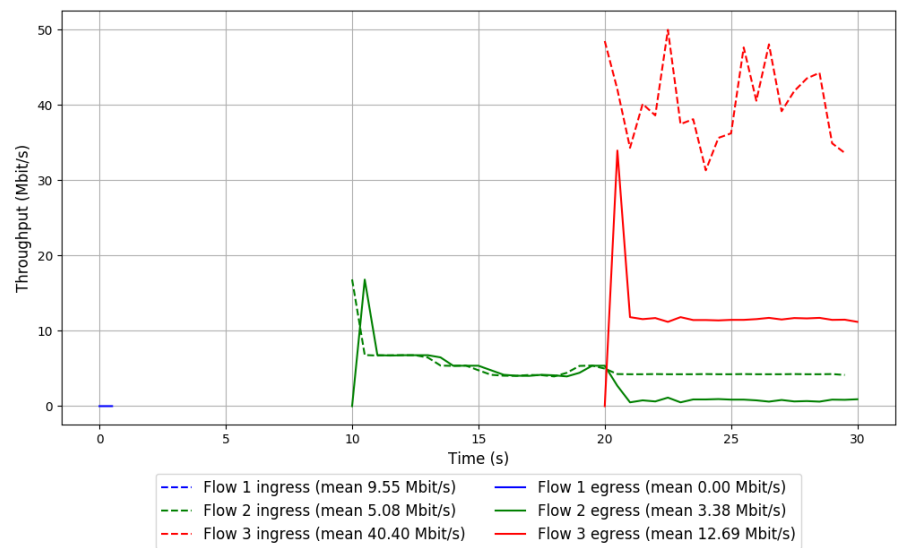
-- Flow 3:

Average throughput: 12.69 Mbit/s

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

Loss rate: 68.58%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-12-11 13:43:46

End at: 2018-12-11 13:44:16

Local clock offset: 5.191 ms

Remote clock offset: 4.679 ms

Below is generated by plot.py at 2018-12-11 15:23:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.10 Mbit/s

95th percentile per-packet one-way delay: 1.157 ms

Loss rate: 55.23%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 1.258 ms

Loss rate: 95.92%

-- Flow 2:

Average throughput: 8.36 Mbit/s

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

Loss rate: 64.19%

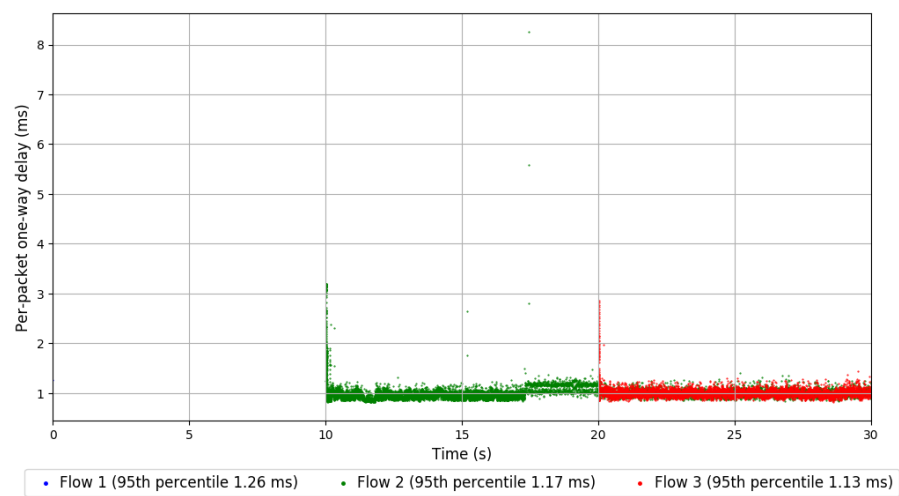
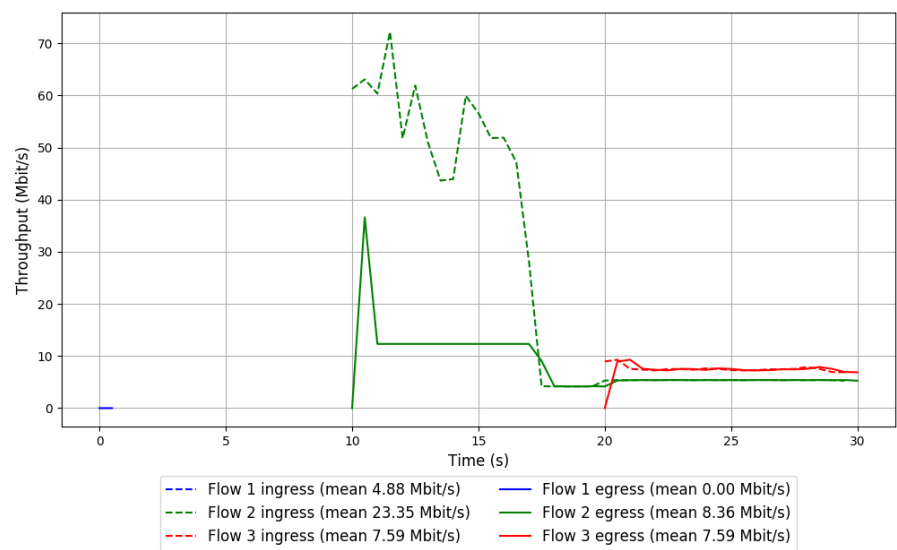
-- Flow 3:

Average throughput: 7.59 Mbit/s

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

Loss rate: 0.00%

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

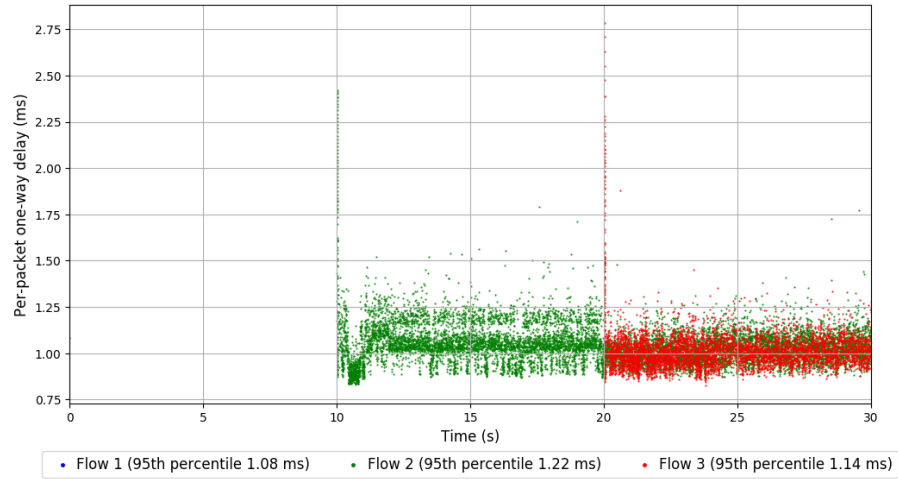
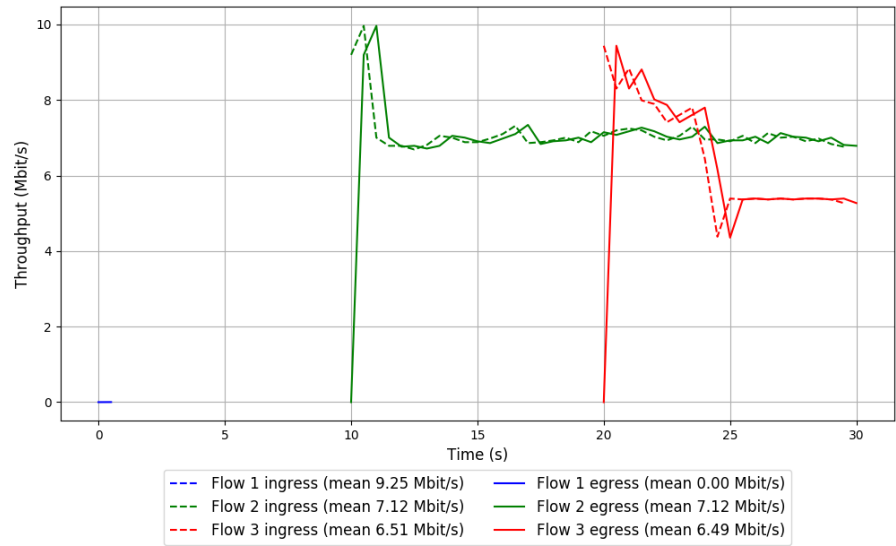


Run 5: Statistics of TaoVA-100x

Start at: 2018-12-11 14:11:17
End at: 2018-12-11 14:11:47
Local clock offset: 5.116 ms
Remote clock offset: -1.174 ms

Below is generated by plot.py at 2018-12-11 15:23:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.90 Mbit/s
95th percentile per-packet one-way delay: 1.207 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 1.081 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 7.12 Mbit/s
95th percentile per-packet one-way delay: 1.215 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 6.49 Mbit/s
95th percentile per-packet one-way delay: 1.144 ms
Loss rate: 0.26%

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

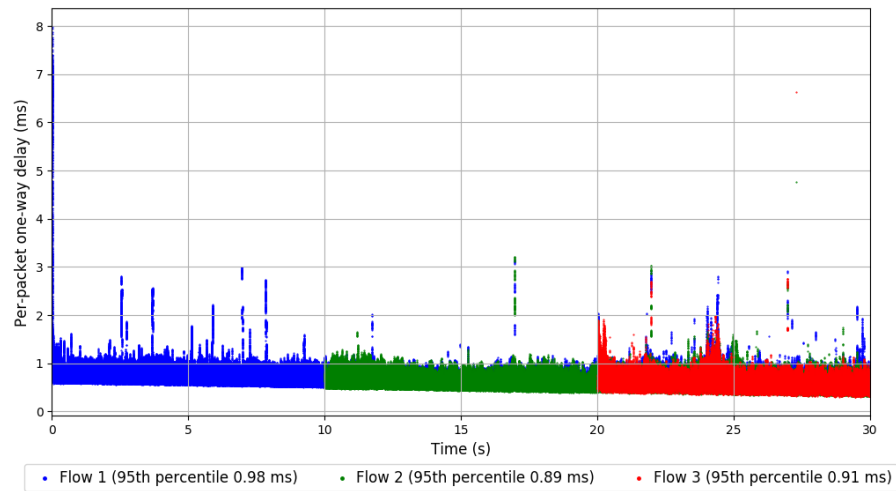
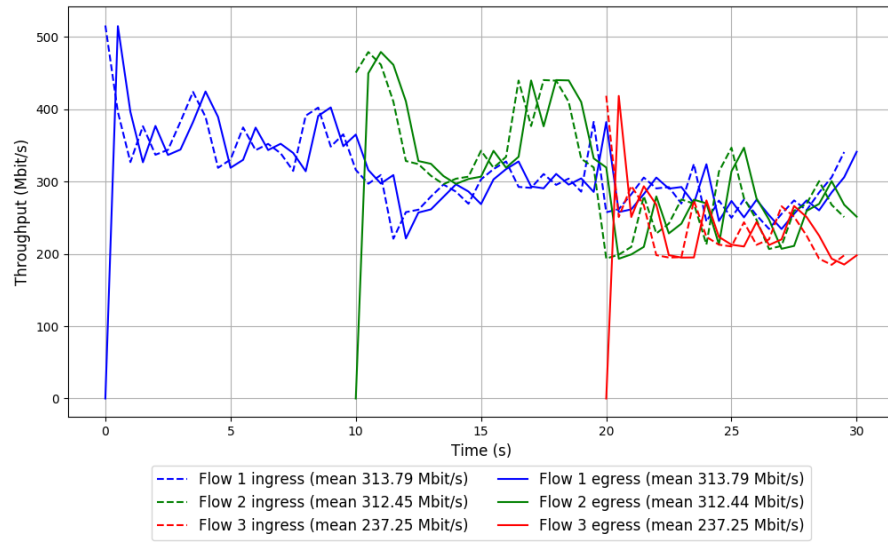


Run 1: Statistics of TCP Vegas

Start at: 2018-12-11 12:40:04
End at: 2018-12-11 12:40:34
Local clock offset: 4.597 ms
Remote clock offset: -1.241 ms

Below is generated by plot.py at 2018-12-11 15:29:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 600.98 Mbit/s
95th percentile per-packet one-way delay: 0.952 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 313.79 Mbit/s
95th percentile per-packet one-way delay: 0.979 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 312.44 Mbit/s
95th percentile per-packet one-way delay: 0.890 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 237.25 Mbit/s
95th percentile per-packet one-way delay: 0.913 ms
Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-12-11 13:07:38

End at: 2018-12-11 13:08:08

Local clock offset: 4.66 ms

Remote clock offset: 5.402 ms

Below is generated by plot.py at 2018-12-11 15:29:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 595.62 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 310.17 Mbit/s

95th percentile per-packet one-way delay: 1.158 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 305.13 Mbit/s

95th percentile per-packet one-way delay: 1.173 ms

Loss rate: 0.00%

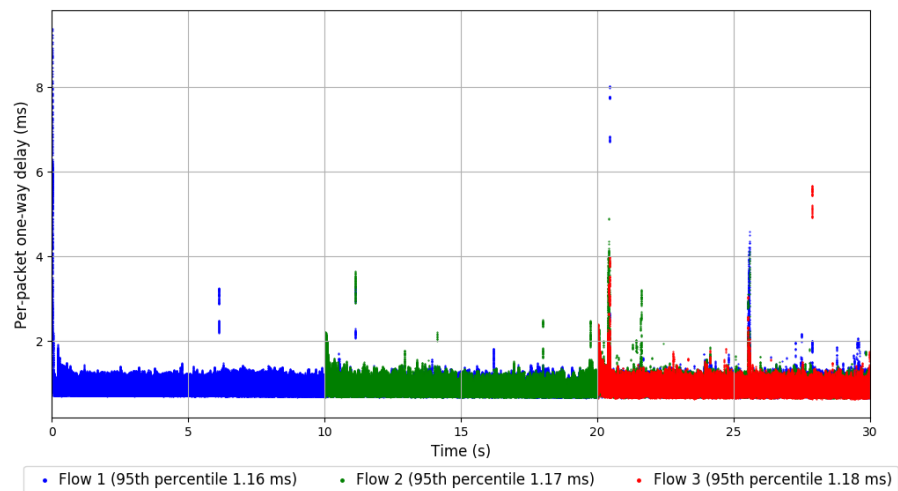
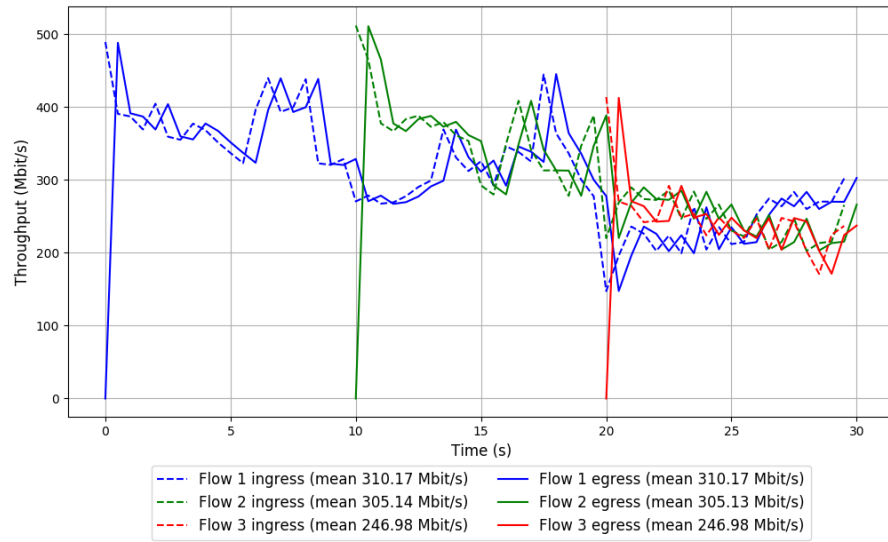
-- Flow 3:

Average throughput: 246.98 Mbit/s

95th percentile per-packet one-way delay: 1.178 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-12-11 13:35:14

End at: 2018-12-11 13:35:44

Local clock offset: 5.125 ms

Remote clock offset: 4.215 ms

Below is generated by plot.py at 2018-12-11 15:29:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 559.76 Mbit/s

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

Loss rate: 0.01%

-- Flow 1:

Average throughput: 239.34 Mbit/s

95th percentile per-packet one-way delay: 1.200 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 275.09 Mbit/s

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

Loss rate: 0.00%

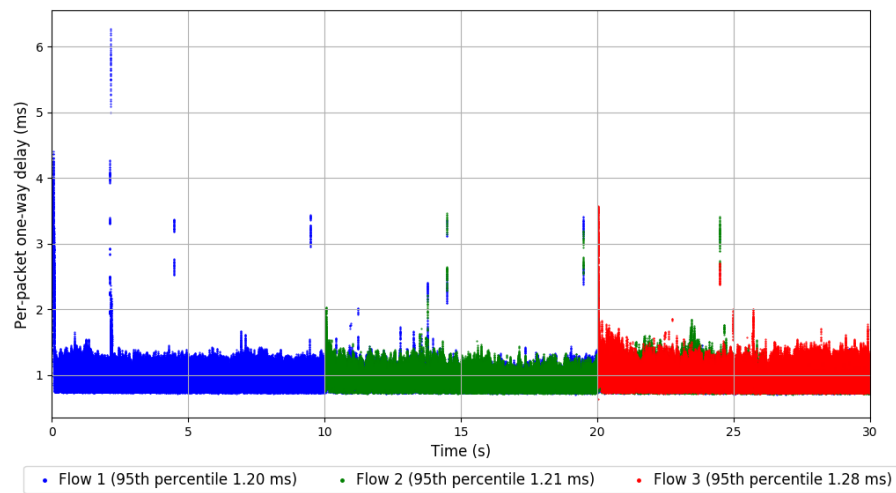
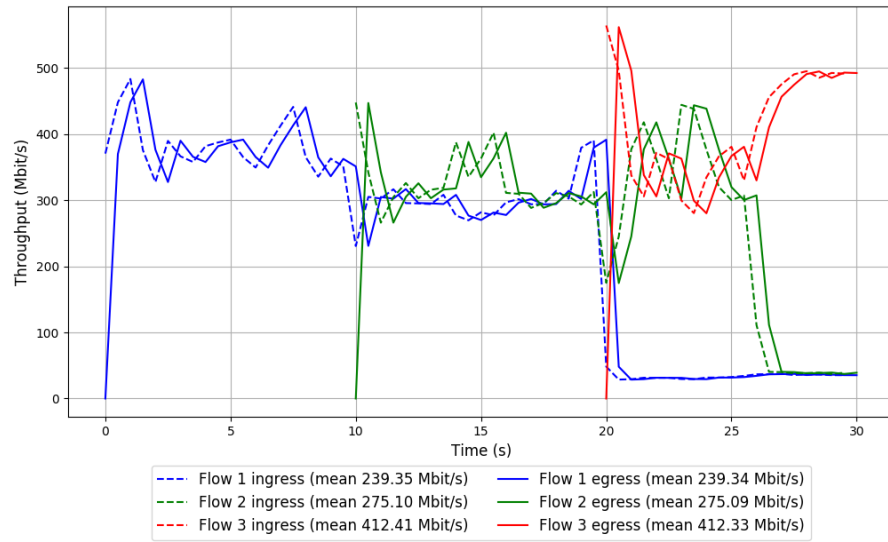
-- Flow 3:

Average throughput: 412.33 Mbit/s

95th percentile per-packet one-way delay: 1.277 ms

Loss rate: 0.02%

Run 3: Report of TCP Vegas — Data Link

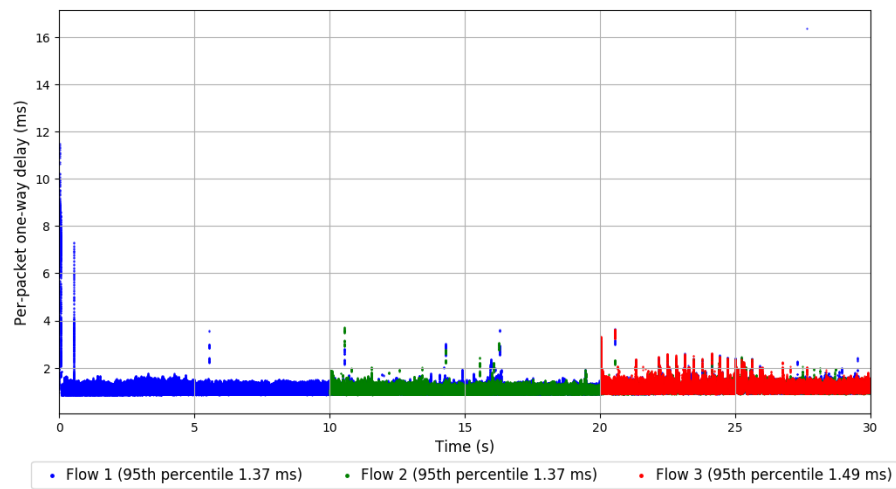
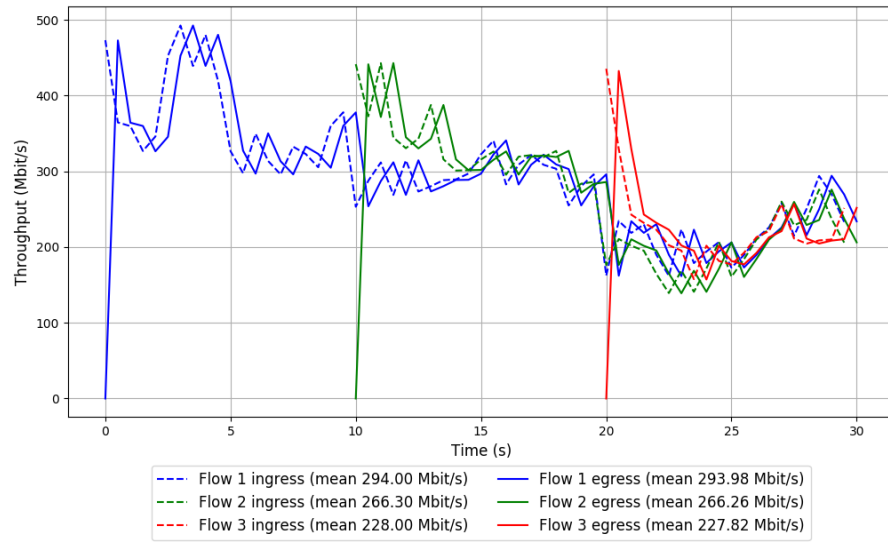


Run 4: Statistics of TCP Vegas

Start at: 2018-12-11 14:02:42
End at: 2018-12-11 14:03:12
Local clock offset: 5.305 ms
Remote clock offset: -0.301 ms

Below is generated by plot.py at 2018-12-11 15:29:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 547.10 Mbit/s
95th percentile per-packet one-way delay: 1.390 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 293.98 Mbit/s
95th percentile per-packet one-way delay: 1.374 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 266.26 Mbit/s
95th percentile per-packet one-way delay: 1.366 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 227.82 Mbit/s
95th percentile per-packet one-way delay: 1.492 ms
Loss rate: 0.07%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-12-11 14:30:27

End at: 2018-12-11 14:30:57

Local clock offset: 4.767 ms

Remote clock offset: -0.92 ms

Below is generated by plot.py at 2018-12-11 15:29:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 488.40 Mbit/s

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

Loss rate: 0.02%

-- Flow 1:

Average throughput: 163.48 Mbit/s

95th percentile per-packet one-way delay: 1.221 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 304.49 Mbit/s

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

Loss rate: 0.02%

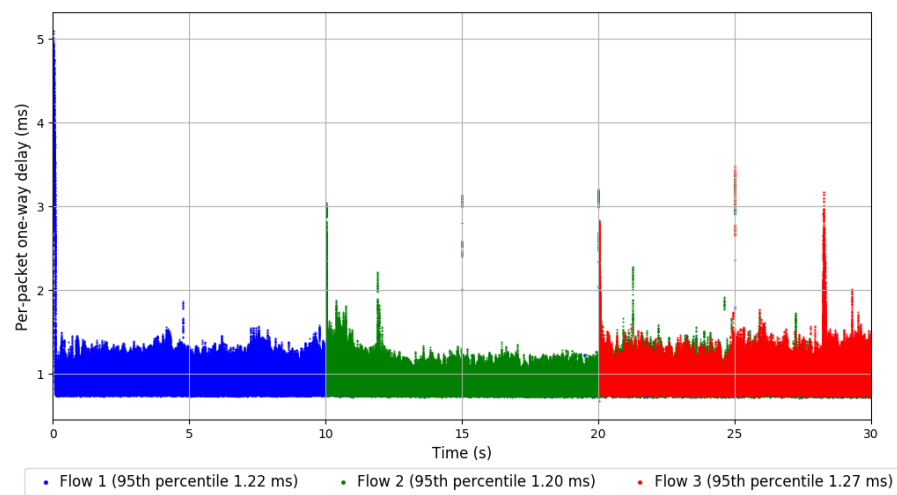
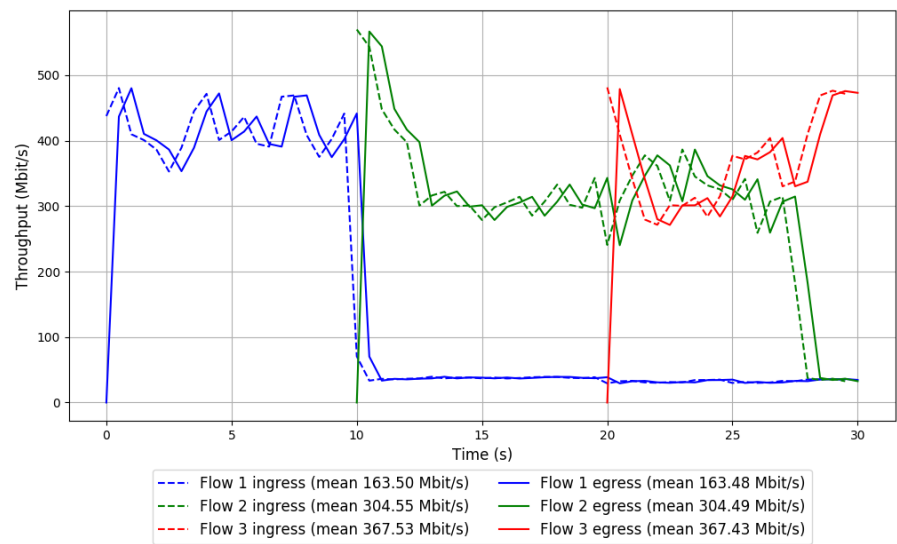
-- Flow 3:

Average throughput: 367.43 Mbit/s

95th percentile per-packet one-way delay: 1.267 ms

Loss rate: 0.03%

Run 5: Report of TCP Vegas — Data Link

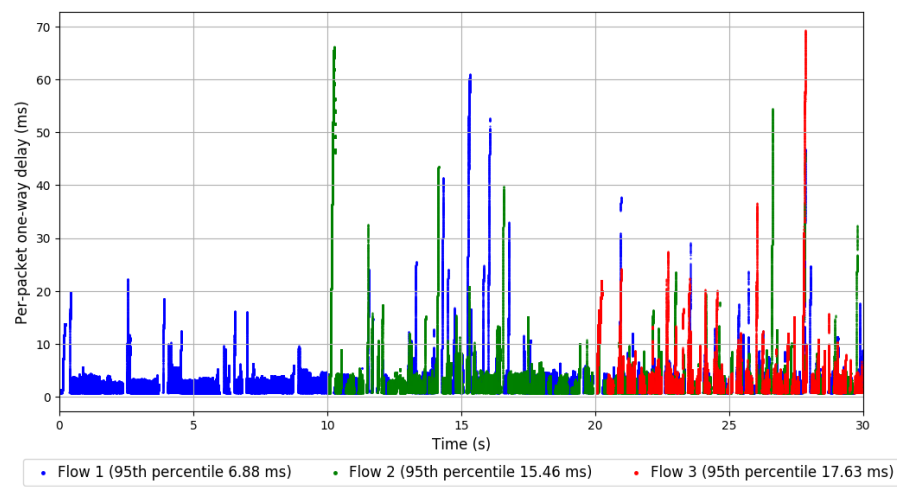
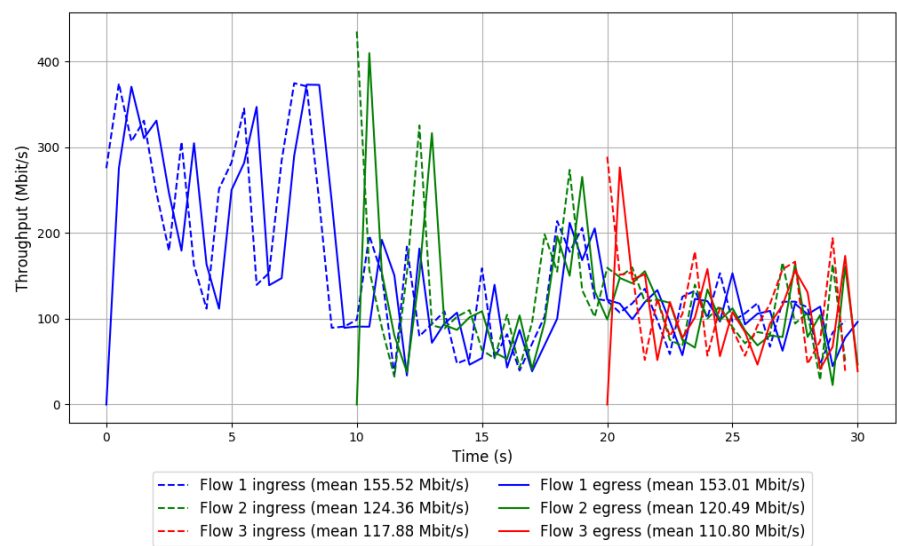


Run 1: Statistics of Verus

Start at: 2018-12-11 12:18:23
End at: 2018-12-11 12:18:53
Local clock offset: 4.629 ms
Remote clock offset: -3.446 ms

Below is generated by plot.py at 2018-12-11 15:29:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 269.83 Mbit/s
95th percentile per-packet one-way delay: 11.534 ms
Loss rate: 2.67%
-- Flow 1:
Average throughput: 153.01 Mbit/s
95th percentile per-packet one-way delay: 6.877 ms
Loss rate: 1.59%
-- Flow 2:
Average throughput: 120.49 Mbit/s
95th percentile per-packet one-way delay: 15.457 ms
Loss rate: 3.11%
-- Flow 3:
Average throughput: 110.80 Mbit/s
95th percentile per-packet one-way delay: 17.627 ms
Loss rate: 5.99%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-12-11 12:45:58

End at: 2018-12-11 12:46:28

Local clock offset: 4.672 ms

Remote clock offset: 1.35 ms

Below is generated by plot.py at 2018-12-11 15:29:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 271.67 Mbit/s

95th percentile per-packet one-way delay: 24.319 ms

Loss rate: 3.16%

-- Flow 1:

Average throughput: 134.30 Mbit/s

95th percentile per-packet one-way delay: 22.766 ms

Loss rate: 2.89%

-- Flow 2:

Average throughput: 146.38 Mbit/s

95th percentile per-packet one-way delay: 34.517 ms

Loss rate: 3.58%

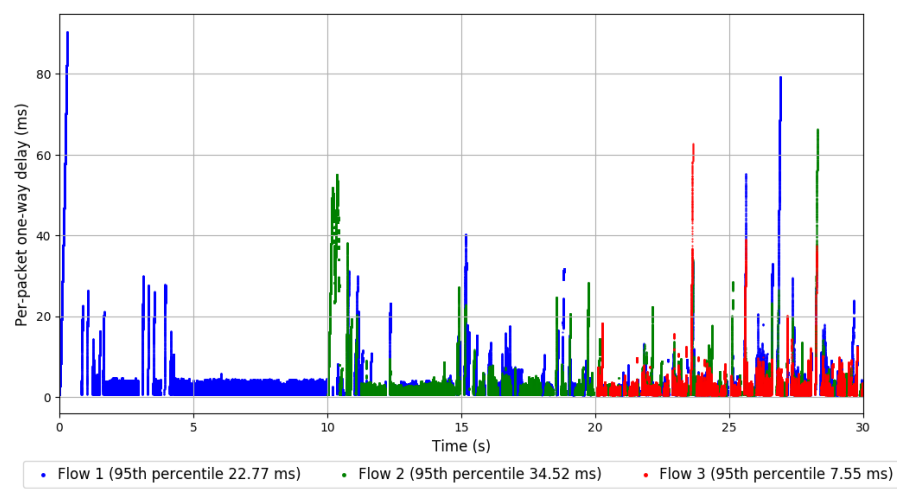
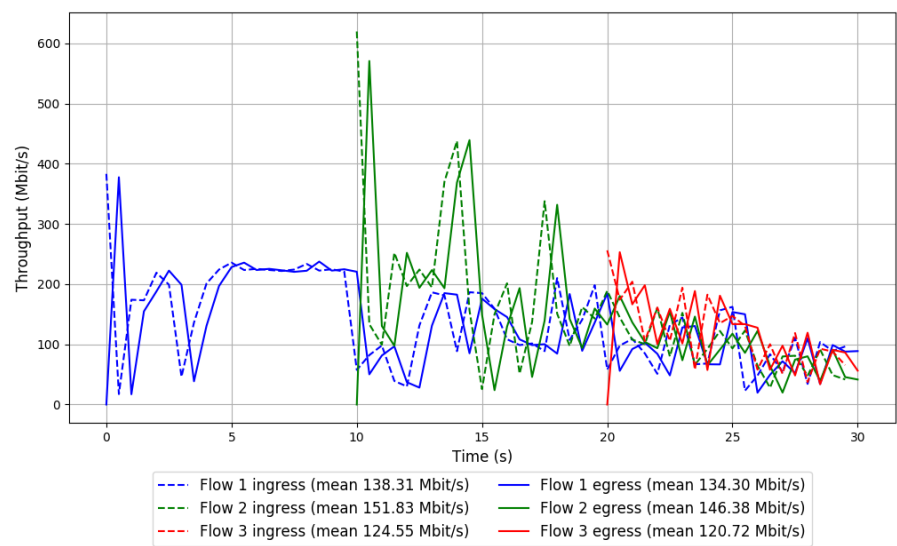
-- Flow 3:

Average throughput: 120.72 Mbit/s

95th percentile per-packet one-way delay: 7.551 ms

Loss rate: 3.05%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-12-11 13:13:36

End at: 2018-12-11 13:14:06

Local clock offset: 4.845 ms

Remote clock offset: 5.436 ms

Below is generated by plot.py at 2018-12-11 15:29:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 256.97 Mbit/s

95th percentile per-packet one-way delay: 23.554 ms

Loss rate: 4.06%

-- Flow 1:

Average throughput: 142.06 Mbit/s

95th percentile per-packet one-way delay: 18.513 ms

Loss rate: 3.38%

-- Flow 2:

Average throughput: 105.02 Mbit/s

95th percentile per-packet one-way delay: 16.756 ms

Loss rate: 5.10%

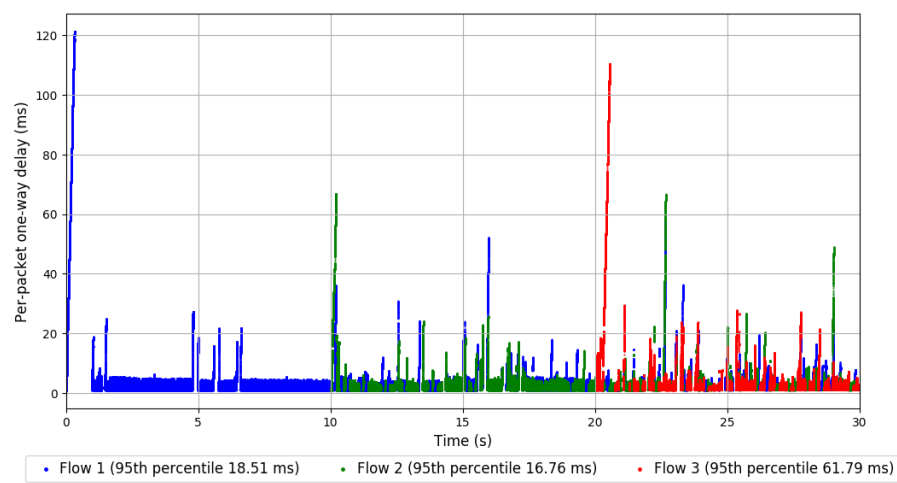
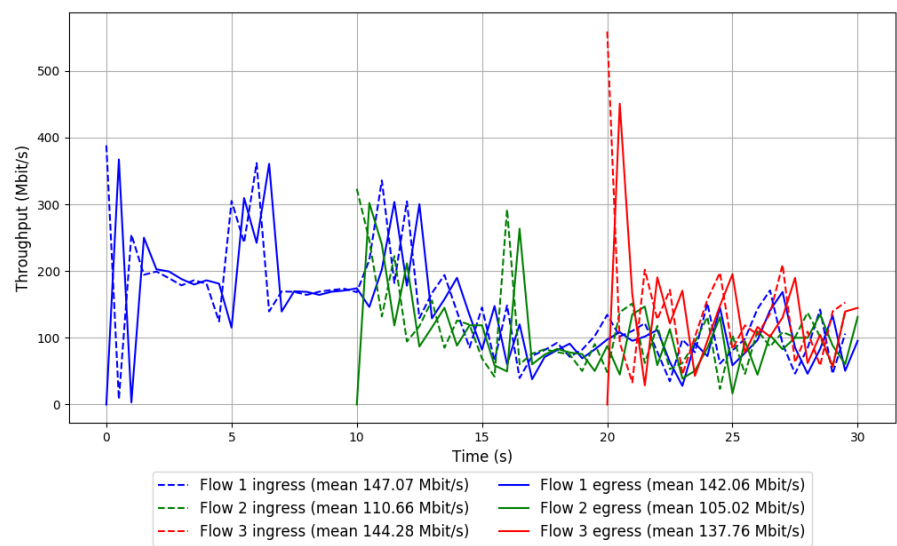
-- Flow 3:

Average throughput: 137.76 Mbit/s

95th percentile per-packet one-way delay: 61.794 ms

Loss rate: 4.52%

Run 3: Report of Verus — Data Link

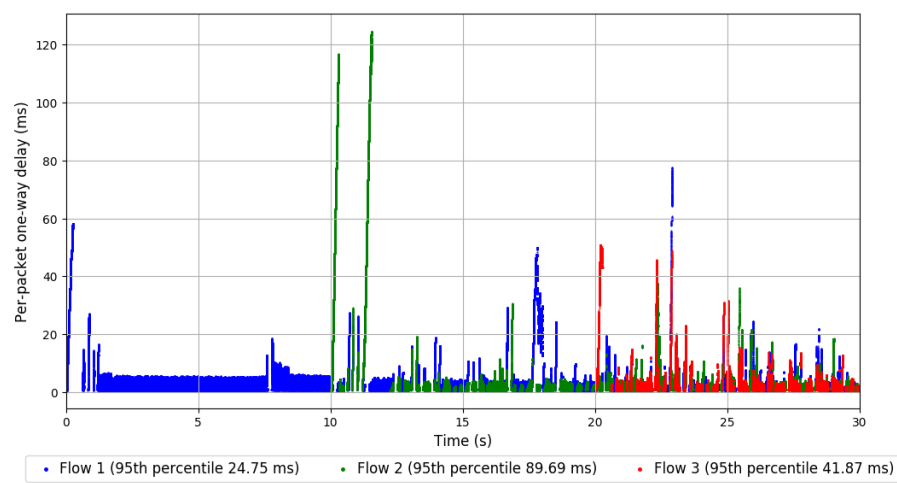
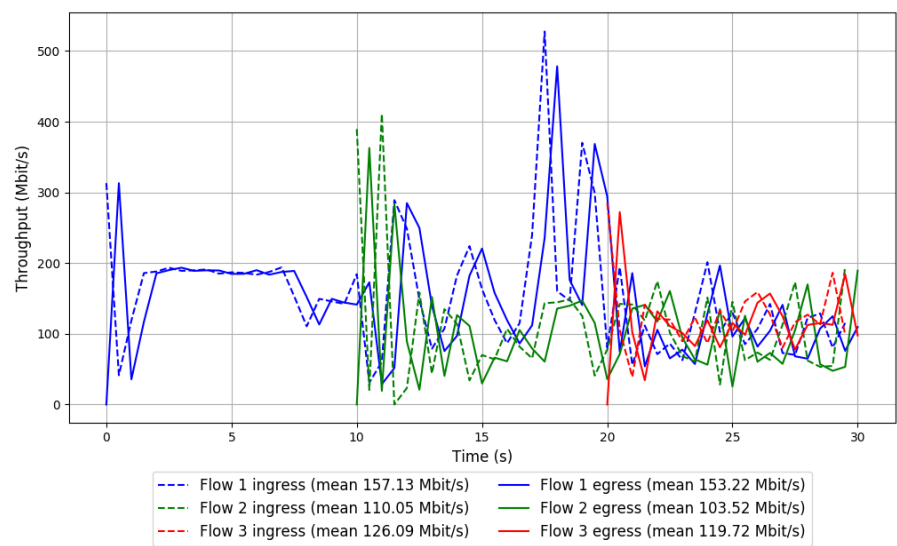


Run 4: Statistics of Verus

Start at: 2018-12-11 13:41:04
End at: 2018-12-11 13:41:34
Local clock offset: 5.17 ms
Remote clock offset: 4.398 ms

Below is generated by plot.py at 2018-12-11 15:29:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 261.03 Mbit/s
95th percentile per-packet one-way delay: 37.940 ms
Loss rate: 3.81%
-- Flow 1:
Average throughput: 153.22 Mbit/s
95th percentile per-packet one-way delay: 24.750 ms
Loss rate: 2.49%
-- Flow 2:
Average throughput: 103.52 Mbit/s
95th percentile per-packet one-way delay: 89.694 ms
Loss rate: 5.93%
-- Flow 3:
Average throughput: 119.72 Mbit/s
95th percentile per-packet one-way delay: 41.868 ms
Loss rate: 5.05%

Run 4: Report of Verus — Data Link

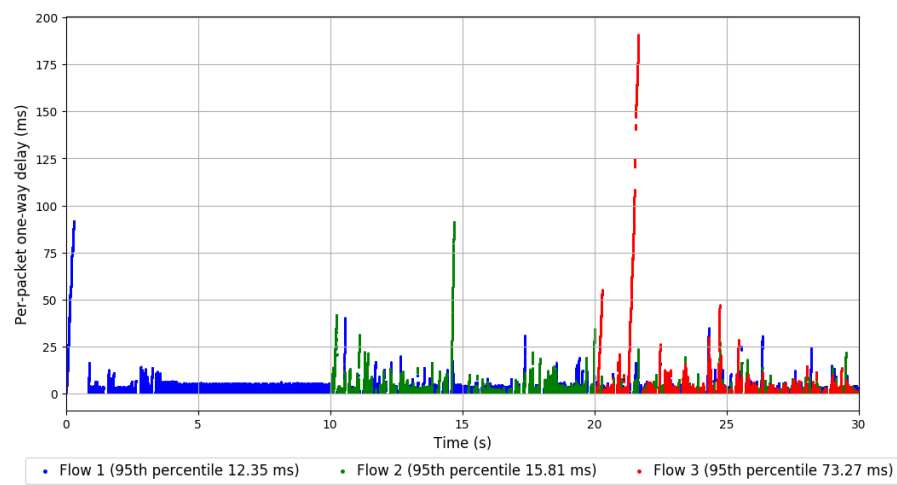
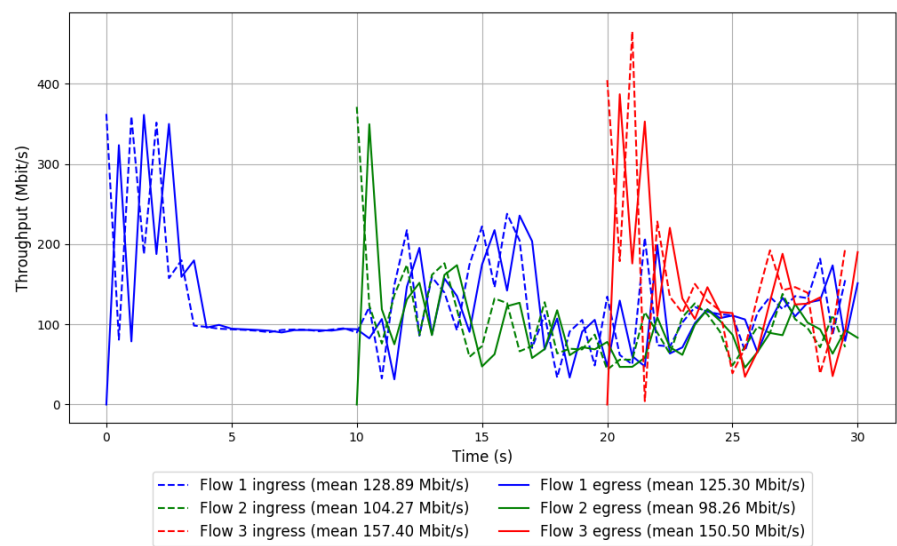


Run 5: Statistics of Verus

Start at: 2018-12-11 14:08:36
End at: 2018-12-11 14:09:06
Local clock offset: 5.305 ms
Remote clock offset: -1.086 ms

Below is generated by plot.py at 2018-12-11 15:29:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 240.06 Mbit/s
95th percentile per-packet one-way delay: 27.887 ms
Loss rate: 3.94%
-- Flow 1:
Average throughput: 125.30 Mbit/s
95th percentile per-packet one-way delay: 12.351 ms
Loss rate: 2.79%
-- Flow 2:
Average throughput: 98.26 Mbit/s
95th percentile per-packet one-way delay: 15.806 ms
Loss rate: 5.76%
-- Flow 3:
Average throughput: 150.50 Mbit/s
95th percentile per-packet one-way delay: 73.270 ms
Loss rate: 4.37%

Run 5: Report of Verus — Data Link

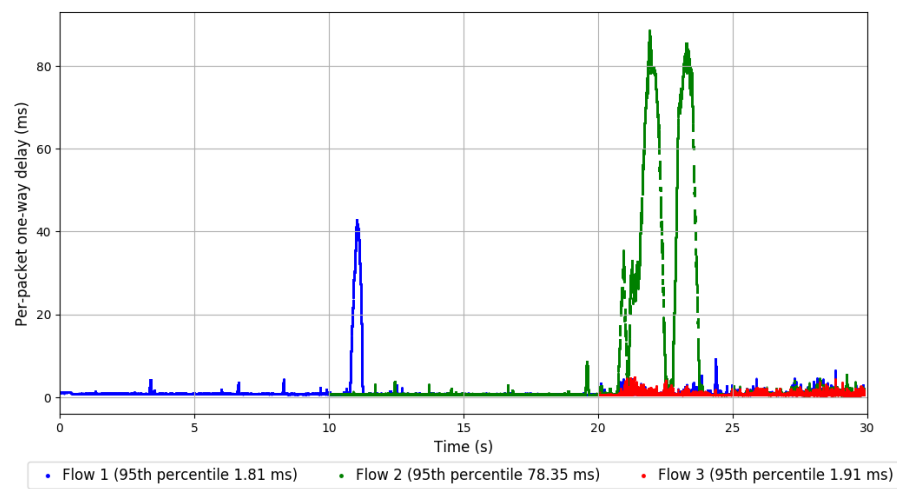
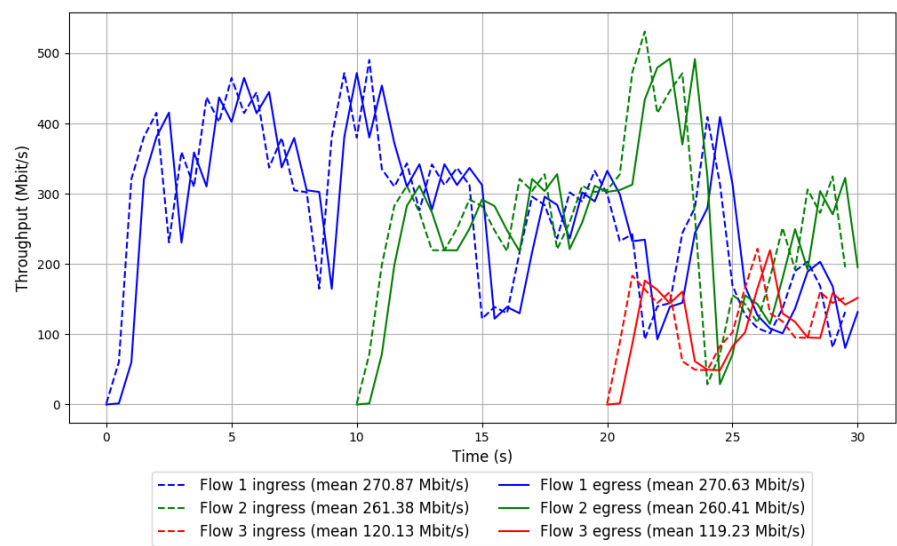


Run 1: Statistics of PCC-Vivace

Start at: 2018-12-11 12:38:27
End at: 2018-12-11 12:38:57
Local clock offset: 4.546 ms
Remote clock offset: -2.046 ms

Below is generated by plot.py at 2018-12-11 15:31:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 483.23 Mbit/s
95th percentile per-packet one-way delay: 41.588 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 270.63 Mbit/s
95th percentile per-packet one-way delay: 1.806 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 260.41 Mbit/s
95th percentile per-packet one-way delay: 78.354 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 119.23 Mbit/s
95th percentile per-packet one-way delay: 1.907 ms
Loss rate: 0.75%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-12-11 13:06:01

End at: 2018-12-11 13:06:31

Local clock offset: 4.646 ms

Remote clock offset: 5.26 ms

Below is generated by plot.py at 2018-12-11 15:32:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 488.45 Mbit/s

95th percentile per-packet one-way delay: 2.679 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 269.66 Mbit/s

95th percentile per-packet one-way delay: 1.632 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 242.74 Mbit/s

95th percentile per-packet one-way delay: 1.539 ms

Loss rate: 0.01%

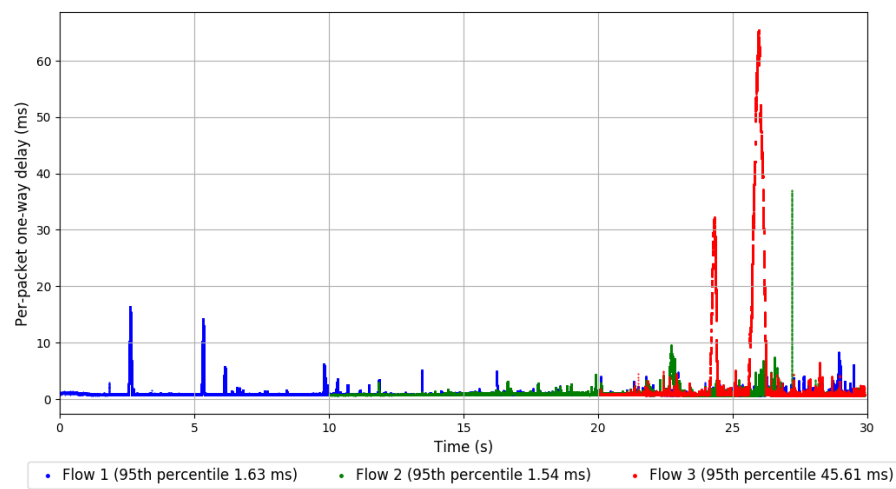
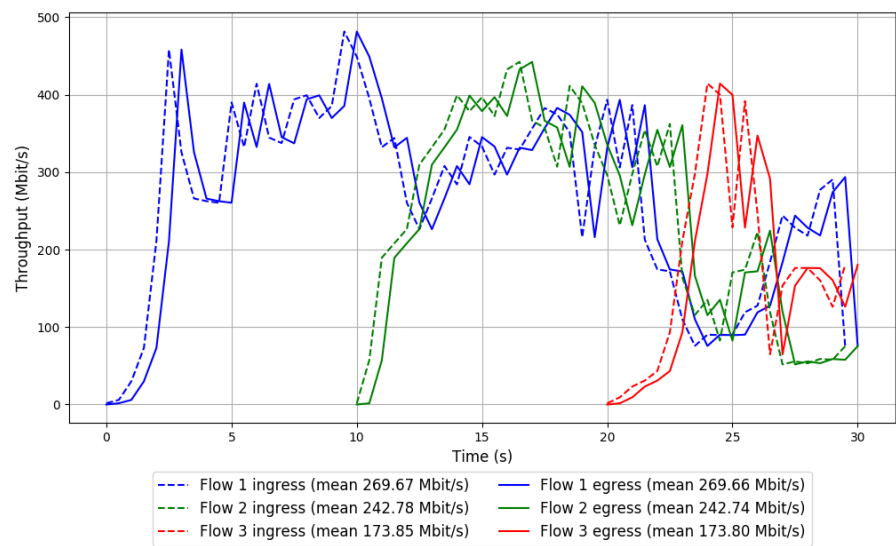
-- Flow 3:

Average throughput: 173.80 Mbit/s

95th percentile per-packet one-way delay: 45.614 ms

Loss rate: 0.02%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-12-11 13:33:39

End at: 2018-12-11 13:34:09

Local clock offset: 5.112 ms

Remote clock offset: 4.162 ms

Below is generated by plot.py at 2018-12-11 15:32:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 450.56 Mbit/s

95th percentile per-packet one-way delay: 2.447 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 261.65 Mbit/s

95th percentile per-packet one-way delay: 2.086 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 217.24 Mbit/s

95th percentile per-packet one-way delay: 7.520 ms

Loss rate: 0.05%

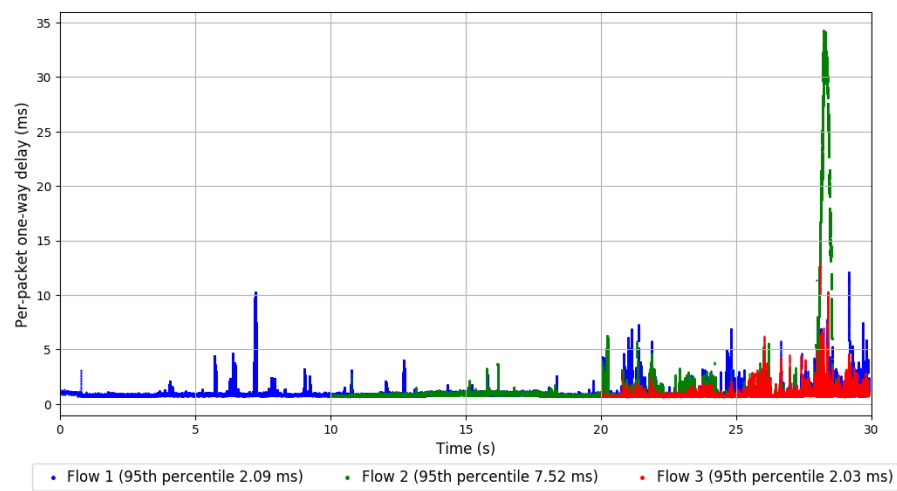
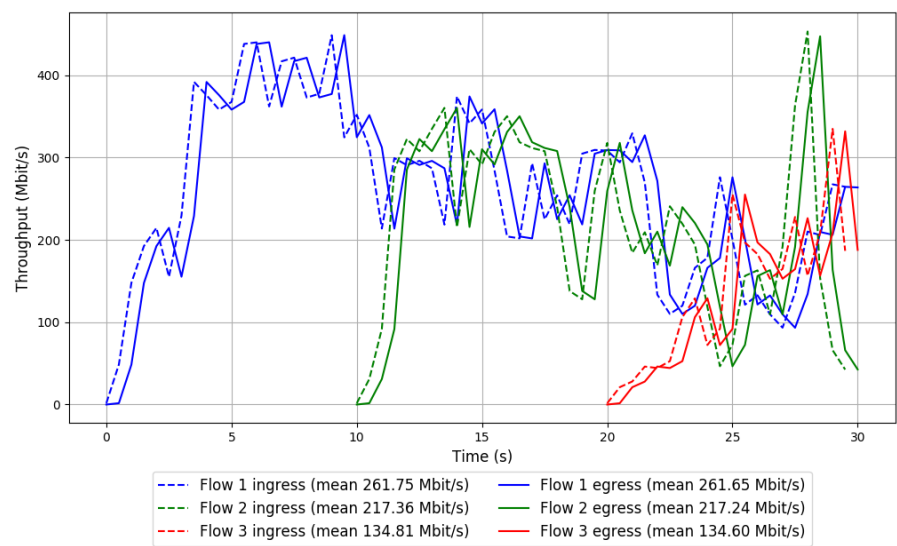
-- Flow 3:

Average throughput: 134.60 Mbit/s

95th percentile per-packet one-way delay: 2.026 ms

Loss rate: 0.16%

Run 3: Report of PCC-Vivace — Data Link

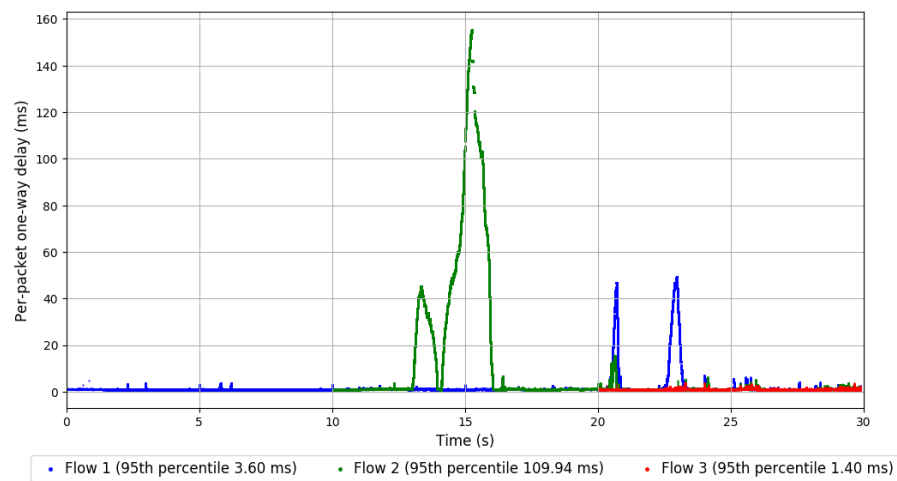
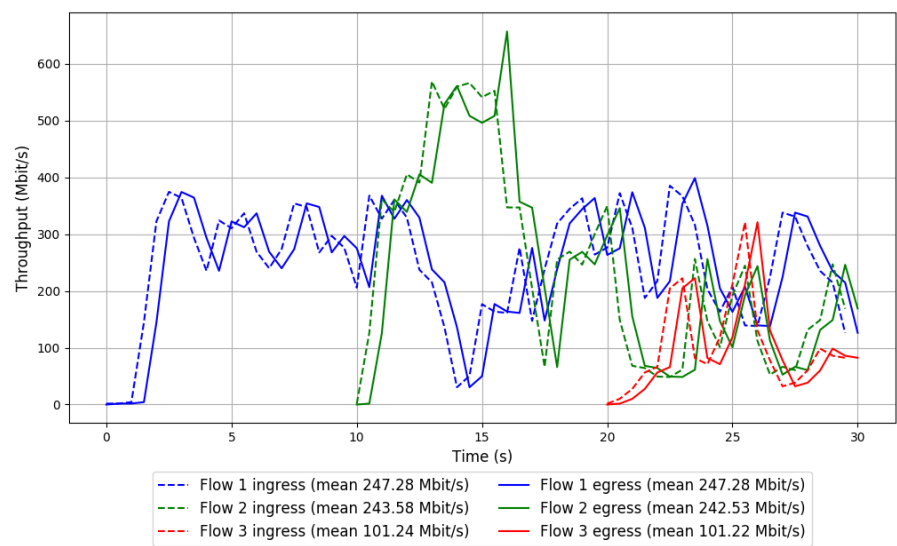


Run 4: Statistics of PCC-Vivace

Start at: 2018-12-11 14:01:07
End at: 2018-12-11 14:01:37
Local clock offset: 5.301 ms
Remote clock offset: -0.196 ms

Below is generated by plot.py at 2018-12-11 15:32:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 442.00 Mbit/s
95th percentile per-packet one-way delay: 56.103 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 247.28 Mbit/s
95th percentile per-packet one-way delay: 3.603 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 242.53 Mbit/s
95th percentile per-packet one-way delay: 109.940 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 101.22 Mbit/s
95th percentile per-packet one-way delay: 1.398 ms
Loss rate: 0.01%

Run 4: Report of PCC-Vivace — Data Link

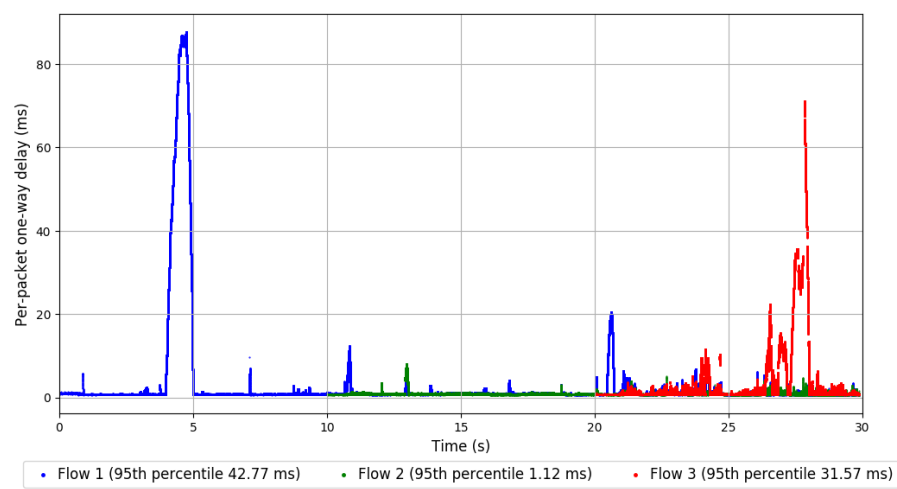
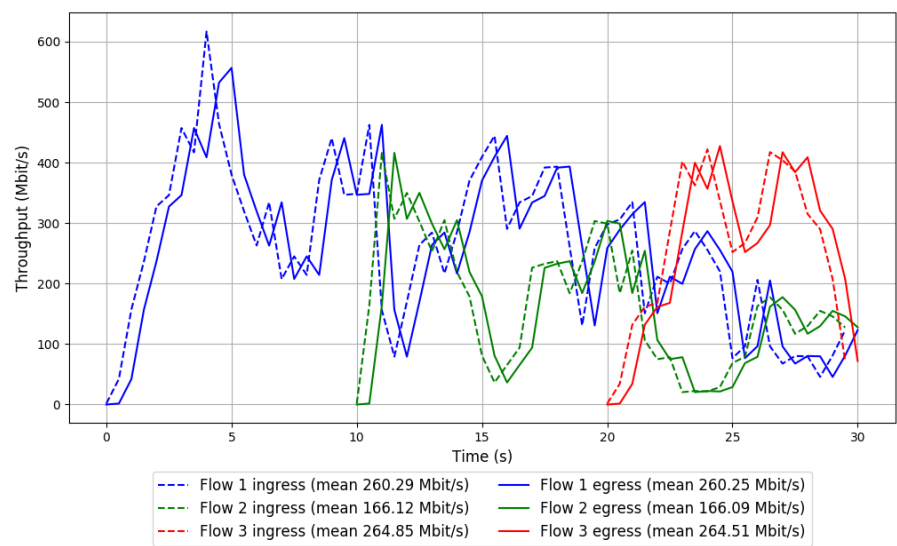


Run 5: Statistics of PCC-Vivace

Start at: 2018-12-11 14:28:51
End at: 2018-12-11 14:29:21
Local clock offset: 4.796 ms
Remote clock offset: -1.014 ms

Below is generated by plot.py at 2018-12-11 15:32:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 458.07 Mbit/s
95th percentile per-packet one-way delay: 25.856 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 260.25 Mbit/s
95th percentile per-packet one-way delay: 42.772 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 166.09 Mbit/s
95th percentile per-packet one-way delay: 1.119 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 264.51 Mbit/s
95th percentile per-packet one-way delay: 31.575 ms
Loss rate: 0.13%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-12-11 12:43:04

End at: 2018-12-11 12:43:34

Local clock offset: 4.635 ms

Remote clock offset: 0.297 ms

Below is generated by plot.py at 2018-12-11 15:32:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 2.529 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 2.109 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 2.851 ms

Loss rate: 0.00%

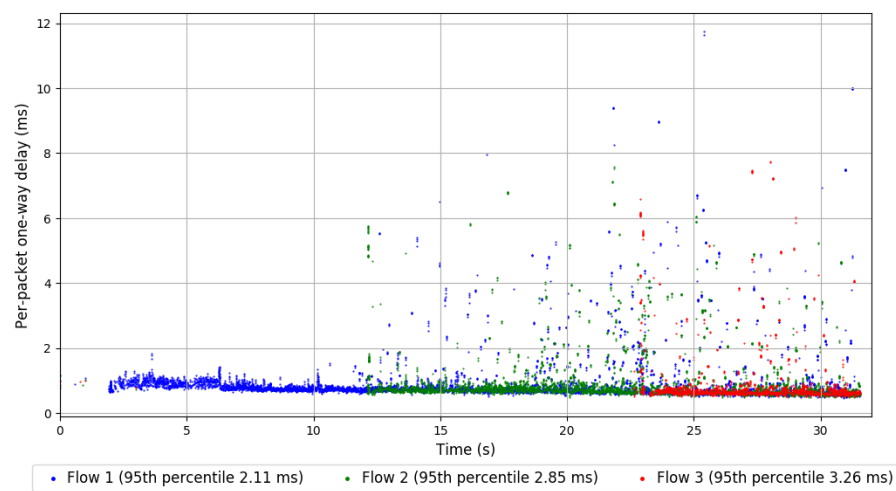
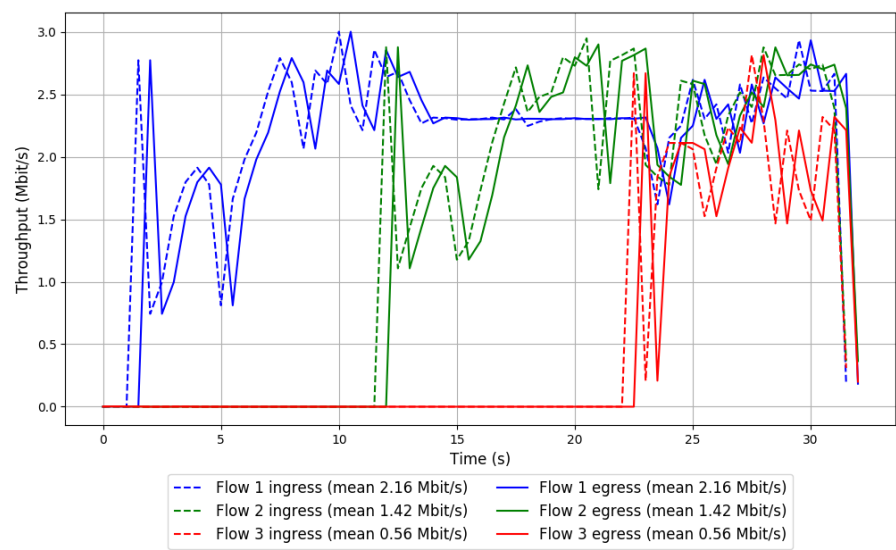
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 3.261 ms

Loss rate: 0.31%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-12-11 13:10:42

End at: 2018-12-11 13:11:12

Local clock offset: 4.739 ms

Remote clock offset: 5.757 ms

Below is generated by plot.py at 2018-12-11 15:32:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.76 Mbit/s

95th percentile per-packet one-way delay: 2.531 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 2.680 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.36 Mbit/s

95th percentile per-packet one-way delay: 2.533 ms

Loss rate: 0.00%

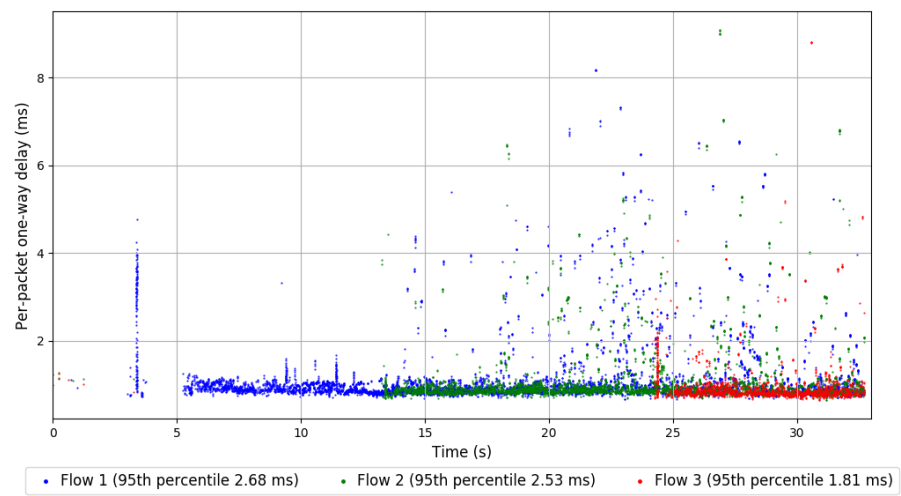
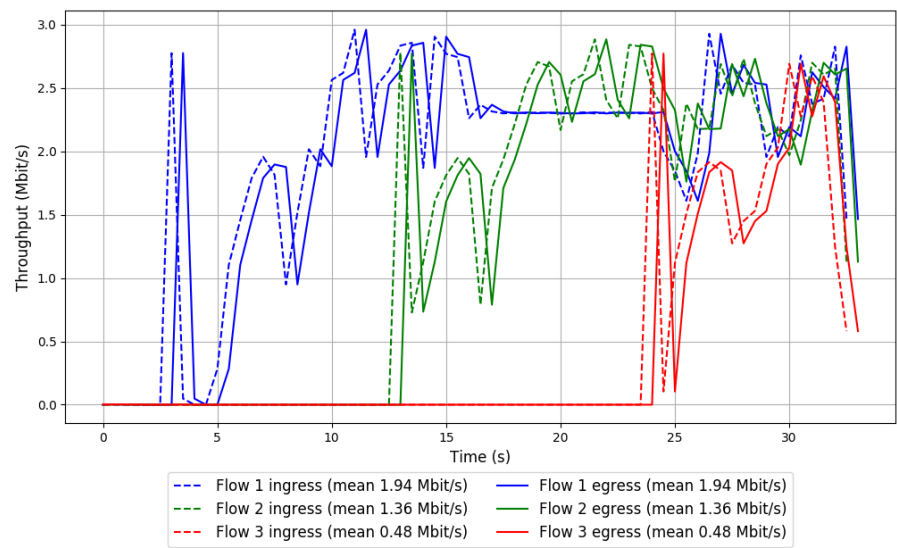
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 1.814 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-12-11 13:38:16

End at: 2018-12-11 13:38:46

Local clock offset: 5.139 ms

Remote clock offset: 4.281 ms

Below is generated by plot.py at 2018-12-11 15:32:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.81 Mbit/s

95th percentile per-packet one-way delay: 2.231 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 2.071 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 2.181 ms

Loss rate: 0.00%

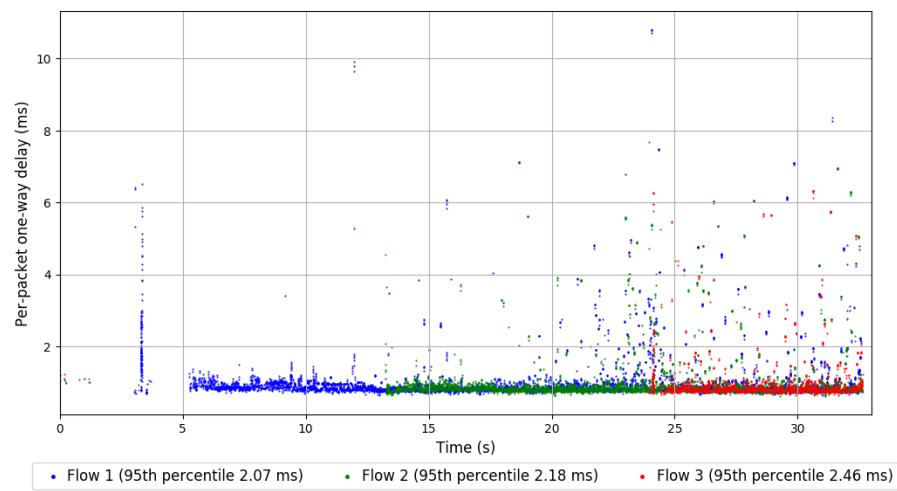
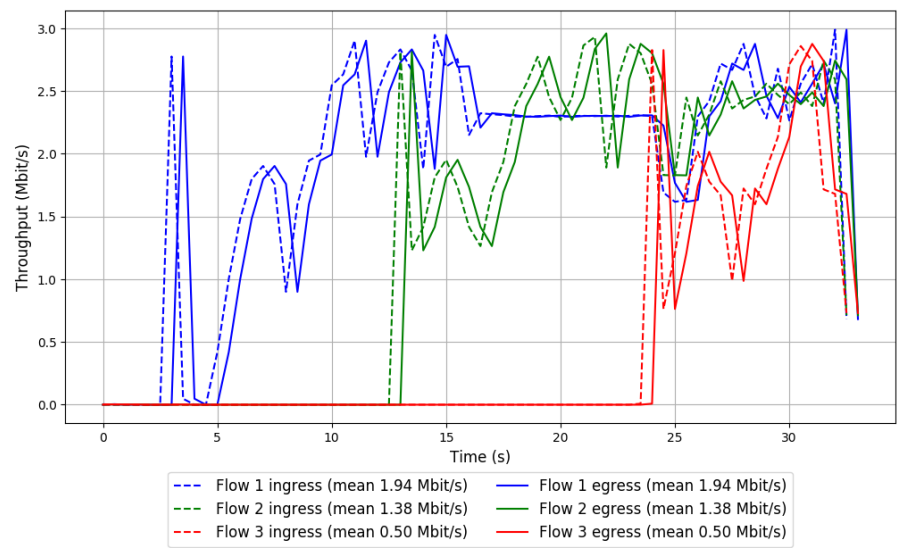
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 2.465 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

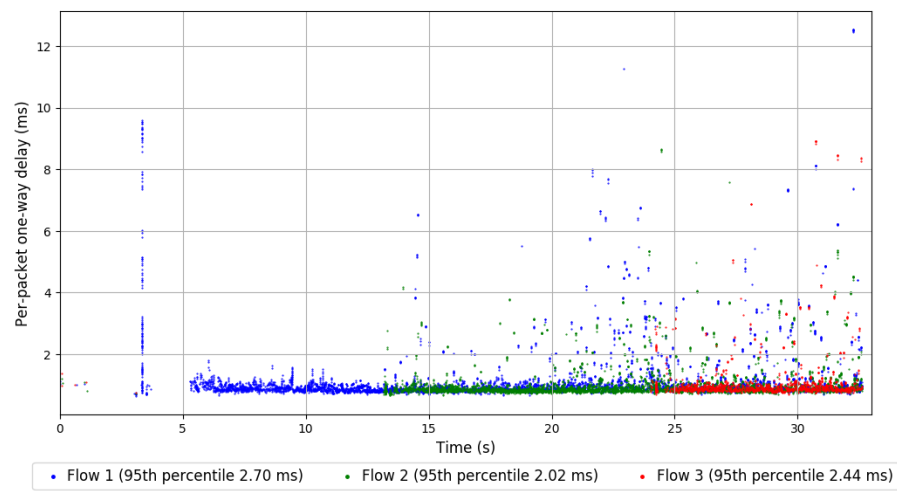
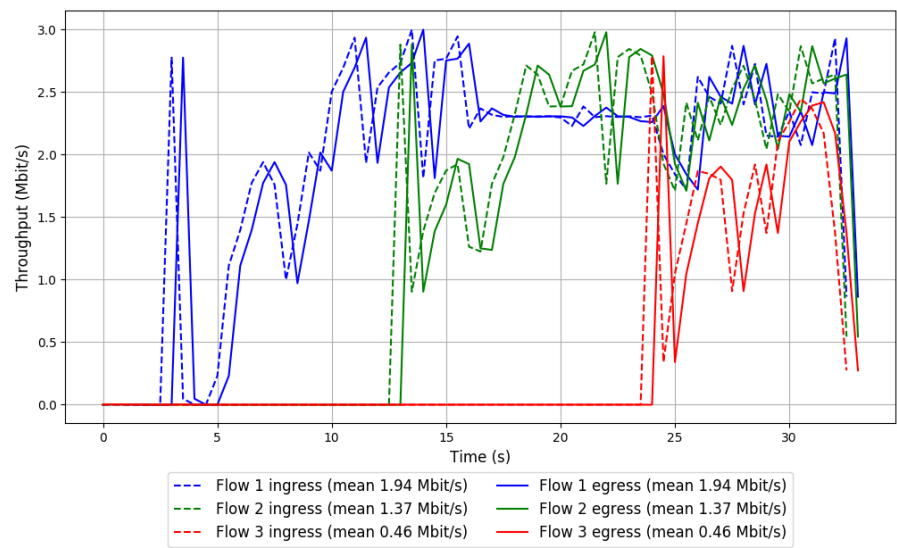


Run 4: Statistics of WebRTC media

Start at: 2018-12-11 14:05:43
End at: 2018-12-11 14:06:14
Local clock offset: 5.297 ms
Remote clock offset: -0.814 ms

Below is generated by plot.py at 2018-12-11 15:32:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.76 Mbit/s
95th percentile per-packet one-way delay: 2.489 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 2.704 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.37 Mbit/s
95th percentile per-packet one-way delay: 2.023 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 2.439 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-12-11 14:33:29

End at: 2018-12-11 14:33:59

Local clock offset: 4.742 ms

Remote clock offset: -0.82 ms

Below is generated by plot.py at 2018-12-11 15:32:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.80 Mbit/s

95th percentile per-packet one-way delay: 3.095 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 3.131 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 2.909 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 3.035 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

