

Pantheon Report

Generated at 2018-11-30 13:52:52 (UTC).

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

Repeated the test of 19 congestion control schemes 5 times.

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

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

System info:

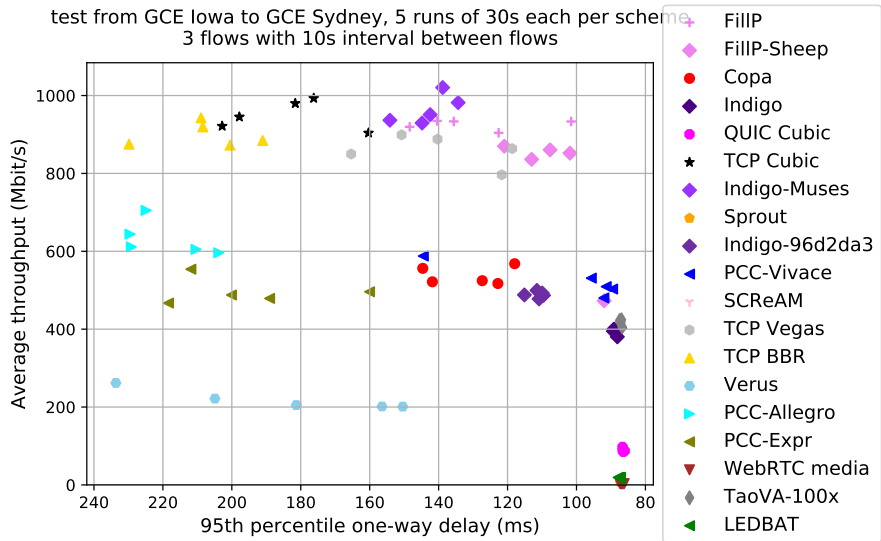
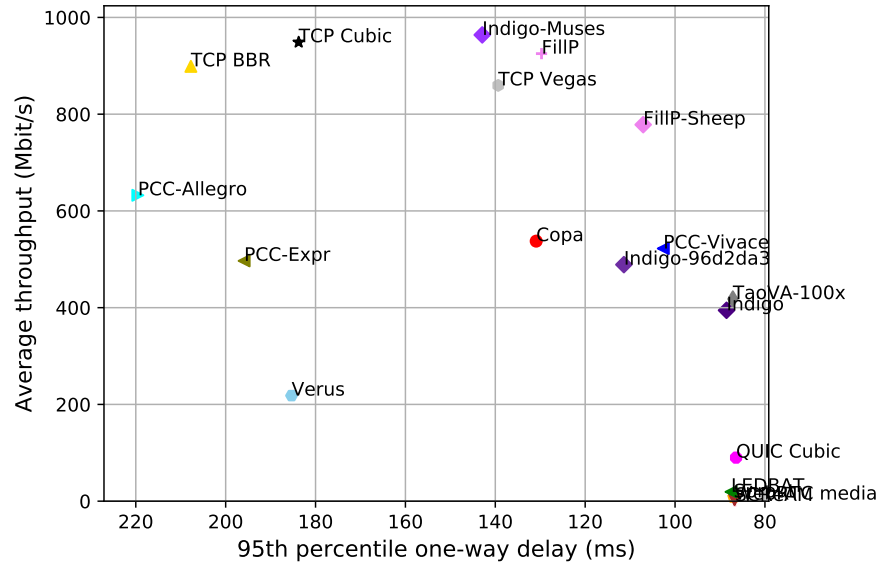
```
Linux 4.15.0-1024-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

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

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

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



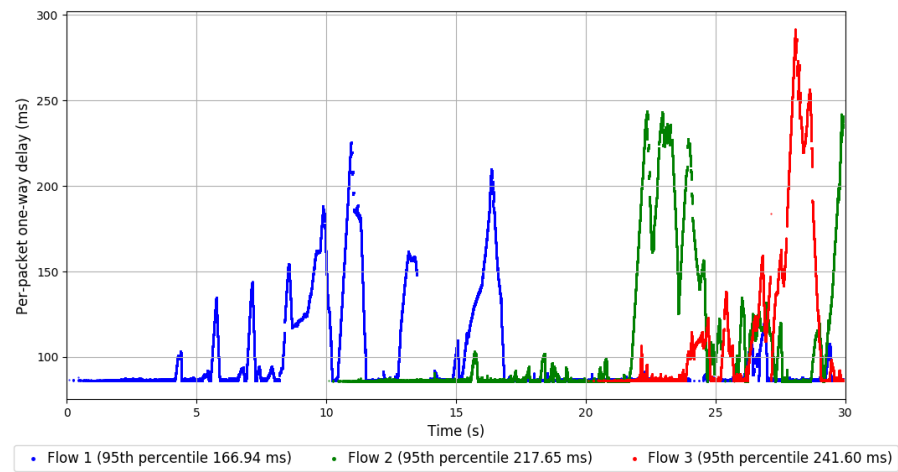
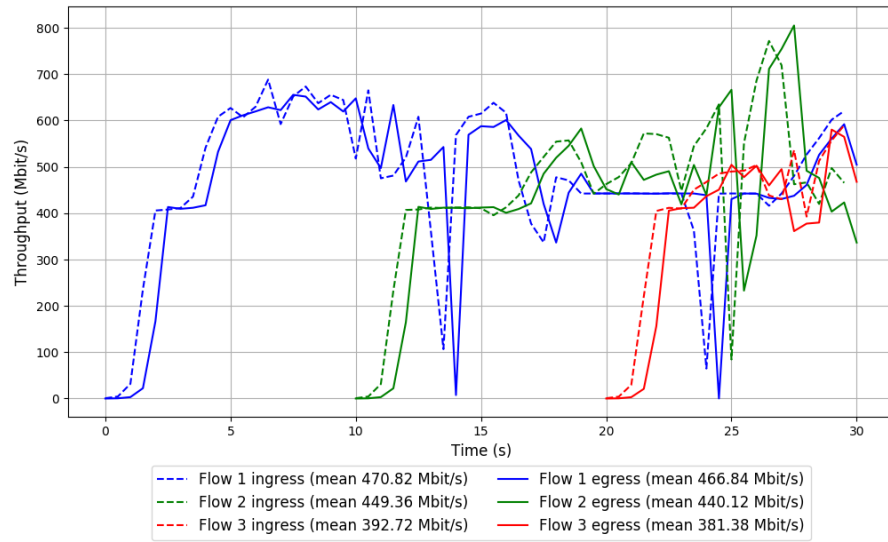
| scheme | # runs | mean avg tput (Mbit/s) | | | mean 95th-%ile delay (ms) | | | mean loss rate (%) | | |
|----------------|--------|------------------------|--------|--------|---------------------------|--------|--------|--------------------|--------|--------|
| | | flow 1 | flow 2 | flow 3 | flow 1 | flow 2 | flow 3 | flow 1 | flow 2 | flow 3 |
| TCP BBR | 5 | 475.42 | 444.37 | 390.45 | 197.78 | 203.10 | 194.53 | 2.43 | 2.89 | 3.91 |
| Copa | 5 | 289.64 | 260.42 | 228.15 | 121.93 | 134.34 | 137.10 | 0.51 | 0.94 | 2.12 |
| TCP Cubic | 5 | 529.01 | 456.10 | 355.46 | 183.46 | 180.83 | 171.07 | 0.68 | 1.16 | 3.74 |
| FillP | 5 | 579.44 | 389.76 | 267.10 | 142.95 | 93.16 | 90.82 | 2.20 | 0.70 | 2.11 |
| FillP-Sheep | 5 | 467.39 | 343.25 | 254.39 | 114.05 | 91.48 | 91.54 | 0.54 | 0.74 | 1.94 |
| Indigo | 5 | 206.98 | 199.76 | 168.07 | 88.19 | 88.95 | 88.61 | 0.59 | 0.93 | 2.14 |
| Indigo-96d2da3 | 5 | 253.27 | 246.79 | 223.23 | 112.43 | 111.34 | 108.85 | 0.66 | 1.19 | 1.97 |
| LEDBAT | 5 | 12.47 | 8.30 | 4.03 | 87.62 | 87.22 | 87.18 | 1.16 | 1.74 | 3.51 |
| Indigo-Muses | 5 | 542.59 | 471.78 | 333.40 | 142.44 | 145.41 | 134.50 | 0.83 | 1.13 | 2.86 |
| PCC-Allegro | 5 | 348.79 | 308.65 | 244.66 | 219.46 | 179.76 | 187.88 | 5.13 | 2.16 | 3.74 |
| PCC-Expr | 5 | 290.82 | 219.41 | 185.33 | 191.24 | 190.54 | 161.16 | 2.04 | 4.20 | 2.96 |
| QUIC Cubic | 5 | 49.43 | 46.21 | 29.35 | 86.39 | 86.27 | 86.28 | 0.95 | 1.52 | 1.99 |
| SCReAM | 5 | 0.22 | 0.22 | 0.22 | 86.61 | 86.51 | 86.51 | 0.54 | 0.95 | 1.77 |
| Sprout | 5 | 4.17 | 3.92 | 3.44 | 86.81 | 87.11 | 86.86 | 0.69 | 1.20 | 2.86 |
| TaoVA-100x | 5 | 214.55 | 210.52 | 193.02 | 86.80 | 87.30 | 87.91 | 0.62 | 1.02 | 1.91 |
| TCP Vegas | 5 | 460.01 | 425.00 | 356.68 | 134.24 | 119.25 | 165.27 | 0.57 | 1.05 | 2.27 |
| Verus | 5 | 132.77 | 108.02 | 42.43 | 160.44 | 184.12 | 123.78 | 0.89 | 2.38 | 1.52 |
| PCC-Vivace | 5 | 318.51 | 226.09 | 165.26 | 91.44 | 105.75 | 123.50 | 0.58 | 1.20 | 2.38 |
| WebRTC media | 5 | 1.80 | 1.10 | 0.40 | 86.56 | 86.67 | 86.32 | 0.69 | 1.17 | 2.41 |

Run 1: Statistics of TCP BBR

Start at: 2018-11-30 08:28:35
End at: 2018-11-30 08:29:05
Local clock offset: -0.221 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2018-11-30 11:36:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 884.45 Mbit/s
95th percentile per-packet one-way delay: 191.035 ms
Loss rate: 2.37%
-- Flow 1:
Average throughput: 466.84 Mbit/s
95th percentile per-packet one-way delay: 166.938 ms
Loss rate: 1.42%
-- Flow 2:
Average throughput: 440.12 Mbit/s
95th percentile per-packet one-way delay: 217.649 ms
Loss rate: 2.91%
-- Flow 3:
Average throughput: 381.38 Mbit/s
95th percentile per-packet one-way delay: 241.597 ms
Loss rate: 4.59%

Run 1: Report of TCP BBR — Data Link

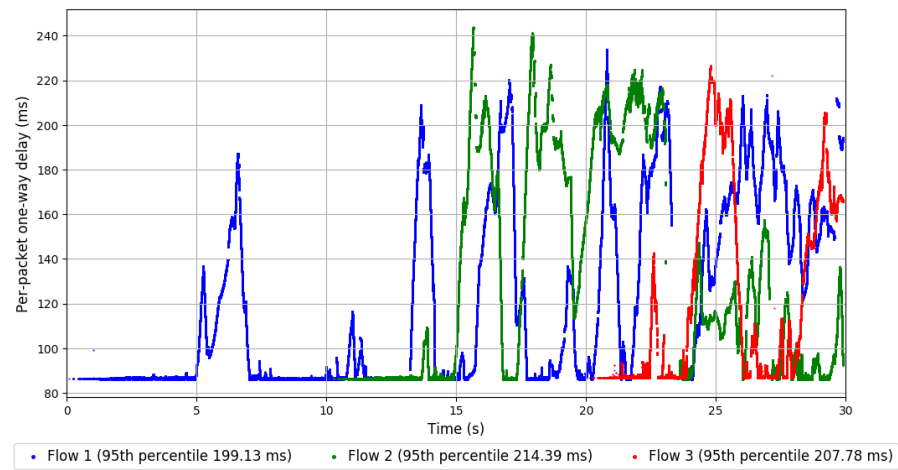
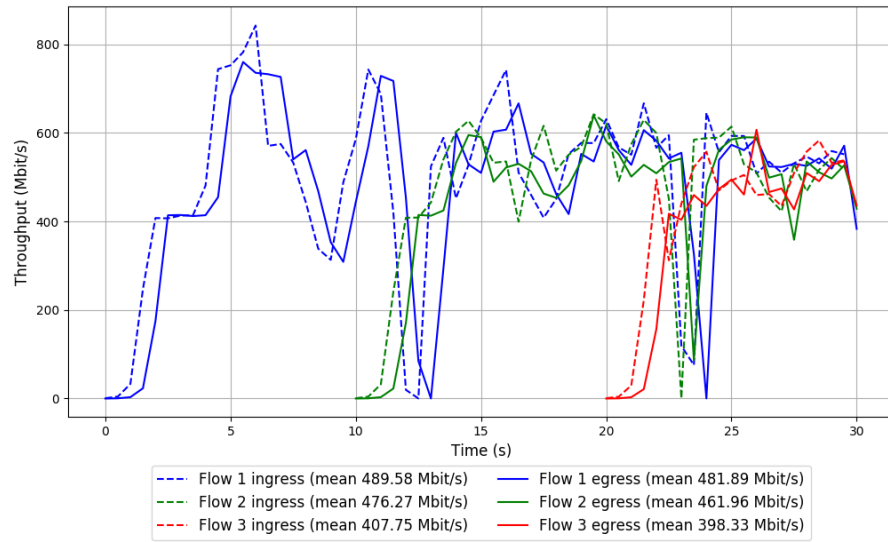


Run 2: Statistics of TCP BBR

Start at: 2018-11-30 09:03:14
End at: 2018-11-30 09:03:44
Local clock offset: 0.095 ms
Remote clock offset: -0.068 ms

Below is generated by plot.py at 2018-11-30 11:37:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 919.55 Mbit/s
95th percentile per-packet one-way delay: 208.416 ms
Loss rate: 2.98%
-- Flow 1:
Average throughput: 481.89 Mbit/s
95th percentile per-packet one-way delay: 199.131 ms
Loss rate: 2.14%
-- Flow 2:
Average throughput: 461.96 Mbit/s
95th percentile per-packet one-way delay: 214.386 ms
Loss rate: 3.85%
-- Flow 3:
Average throughput: 398.33 Mbit/s
95th percentile per-packet one-way delay: 207.785 ms
Loss rate: 4.02%

Run 2: Report of TCP BBR — Data Link

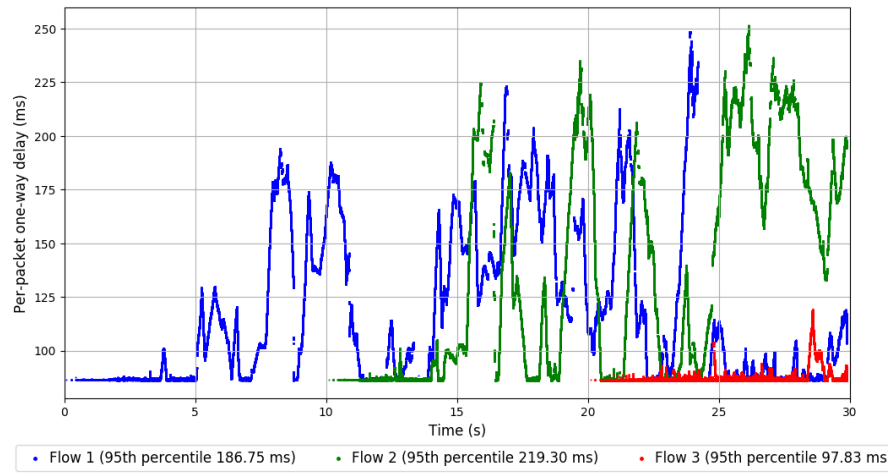
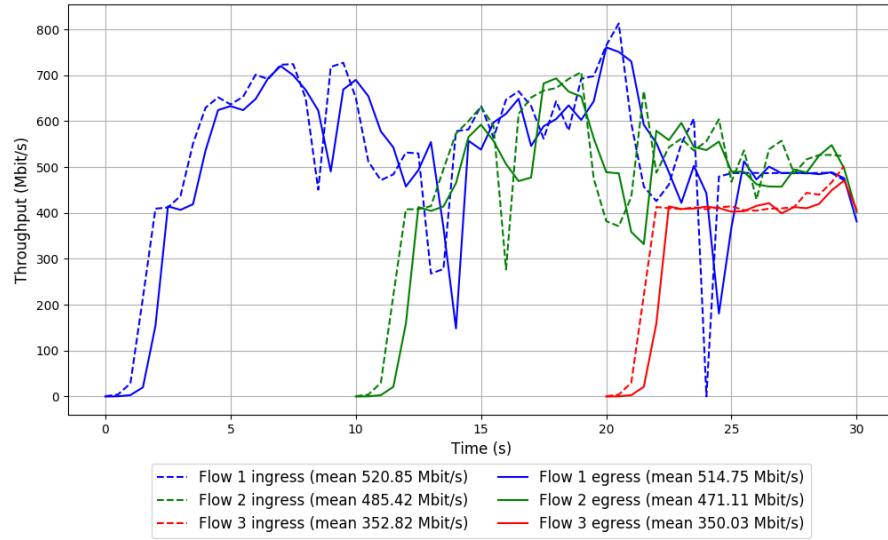


Run 3: Statistics of TCP BBR

Start at: 2018-11-30 09:37:54
End at: 2018-11-30 09:38:24
Local clock offset: -0.562 ms
Remote clock offset: -0.189 ms

Below is generated by plot.py at 2018-11-30 11:37:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 942.60 Mbit/s
95th percentile per-packet one-way delay: 208.931 ms
Loss rate: 2.53%
-- Flow 1:
Average throughput: 514.75 Mbit/s
95th percentile per-packet one-way delay: 186.745 ms
Loss rate: 1.74%
-- Flow 2:
Average throughput: 471.11 Mbit/s
95th percentile per-packet one-way delay: 219.299 ms
Loss rate: 3.79%
-- Flow 3:
Average throughput: 350.03 Mbit/s
95th percentile per-packet one-way delay: 97.834 ms
Loss rate: 2.52%

Run 3: Report of TCP BBR — Data Link

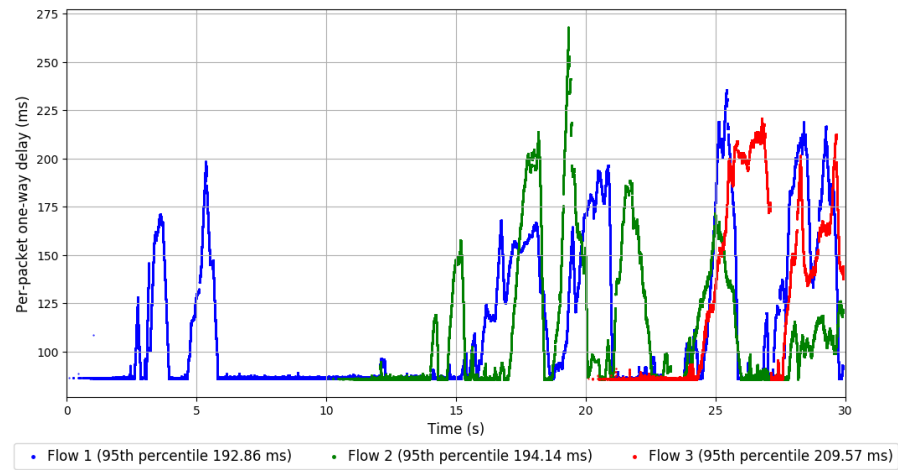
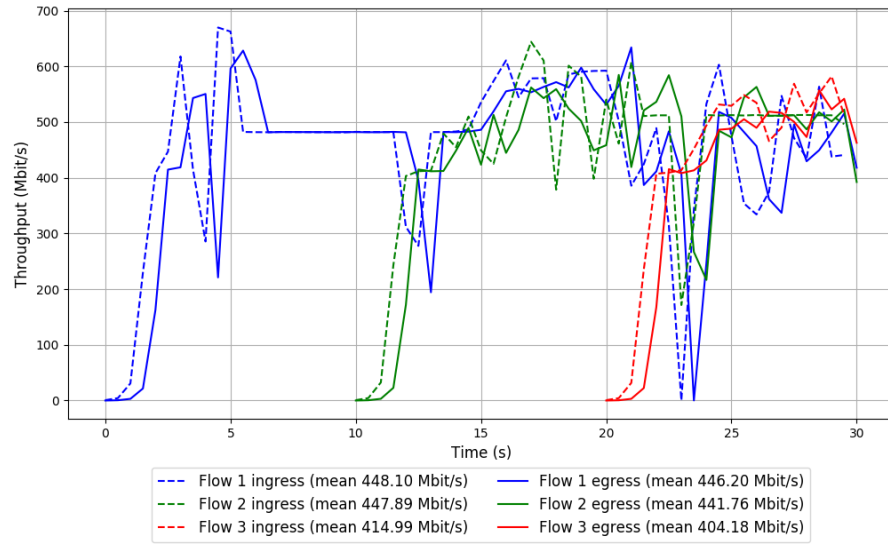


Run 4: Statistics of TCP BBR

Start at: 2018-11-30 10:12:00
End at: 2018-11-30 10:12:30
Local clock offset: -0.777 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-11-30 11:37:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 872.59 Mbit/s
95th percentile per-packet one-way delay: 200.500 ms
Loss rate: 1.93%
-- Flow 1:
Average throughput: 446.20 Mbit/s
95th percentile per-packet one-way delay: 192.861 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 441.76 Mbit/s
95th percentile per-packet one-way delay: 194.141 ms
Loss rate: 2.22%
-- Flow 3:
Average throughput: 404.18 Mbit/s
95th percentile per-packet one-way delay: 209.573 ms
Loss rate: 4.30%

Run 4: Report of TCP BBR — Data Link

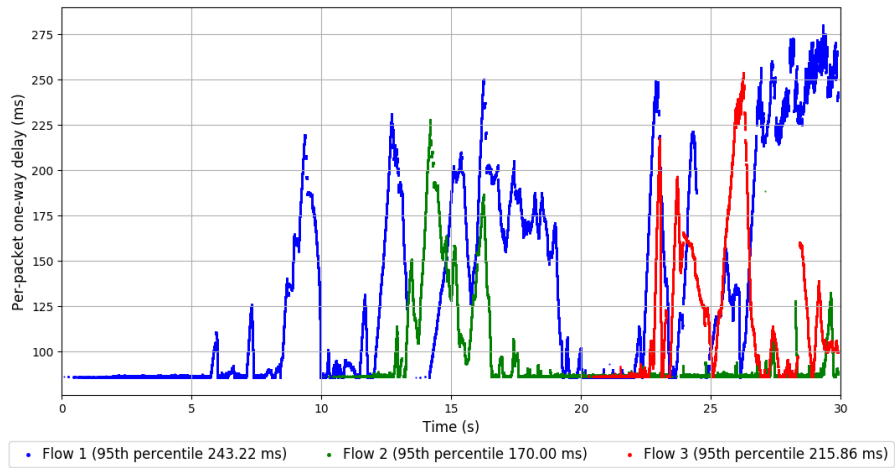
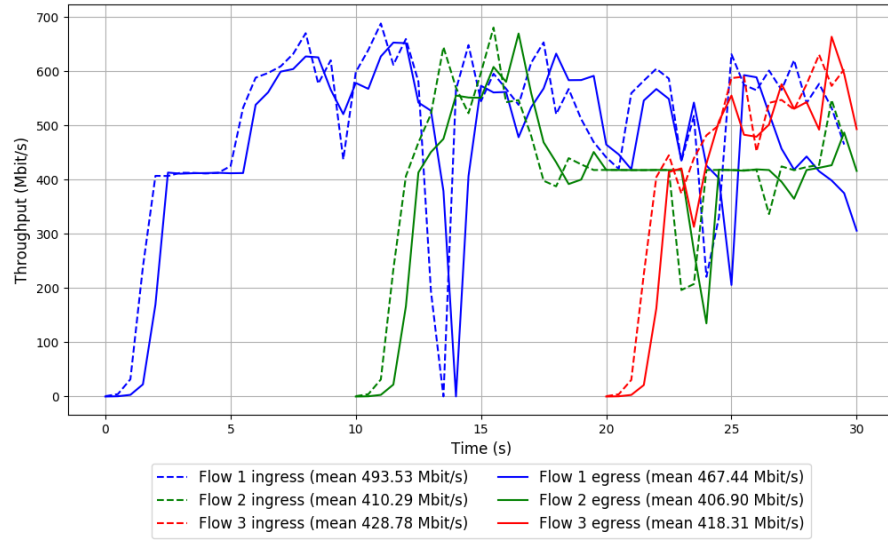


Run 5: Statistics of TCP BBR

Start at: 2018-11-30 10:46:47
End at: 2018-11-30 10:47:17
Local clock offset: -0.297 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2018-11-30 11:37:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 875.10 Mbit/s
95th percentile per-packet one-way delay: 229.818 ms
Loss rate: 4.32%
-- Flow 1:
Average throughput: 467.44 Mbit/s
95th percentile per-packet one-way delay: 243.221 ms
Loss rate: 5.83%
-- Flow 2:
Average throughput: 406.90 Mbit/s
95th percentile per-packet one-way delay: 170.005 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 418.31 Mbit/s
95th percentile per-packet one-way delay: 215.863 ms
Loss rate: 4.14%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-11-30 08:14:17

End at: 2018-11-30 08:14:47

Local clock offset: 0.418 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2018-11-30 11:37:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 521.63 Mbit/s

95th percentile per-packet one-way delay: 141.810 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 292.37 Mbit/s

95th percentile per-packet one-way delay: 122.315 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 255.03 Mbit/s

95th percentile per-packet one-way delay: 154.621 ms

Loss rate: 0.96%

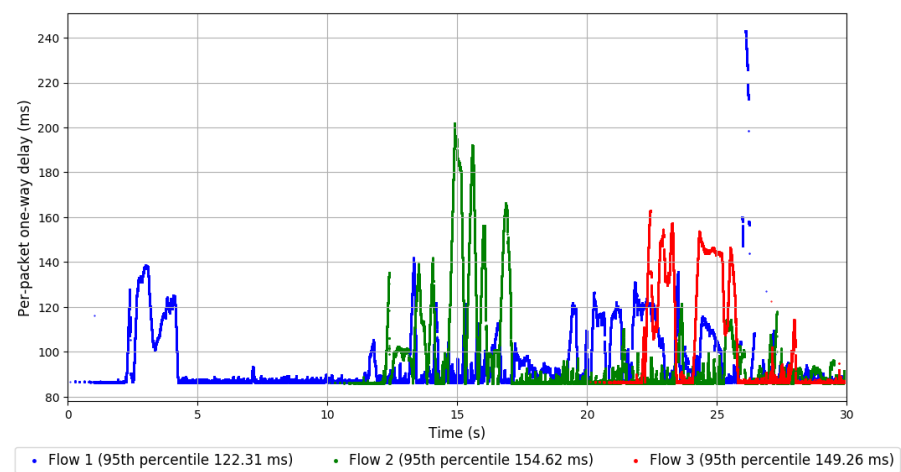
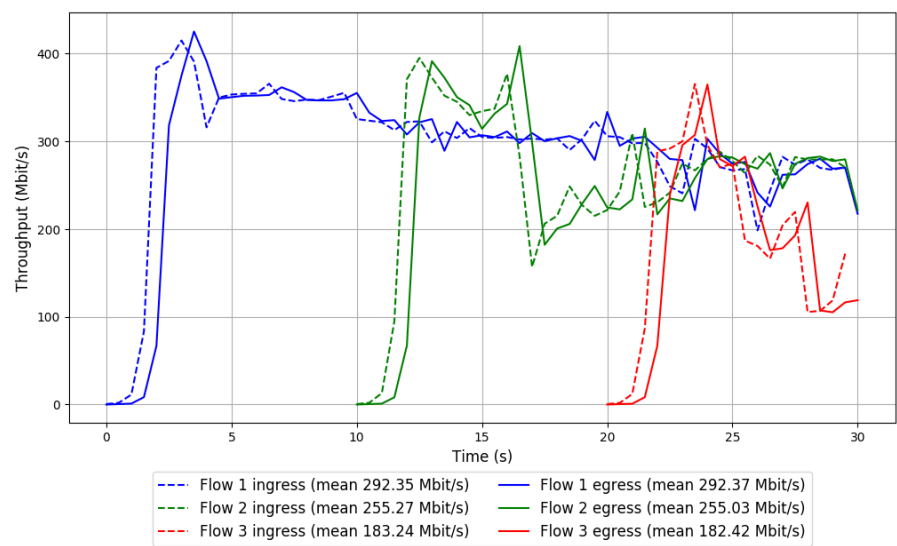
-- Flow 3:

Average throughput: 182.42 Mbit/s

95th percentile per-packet one-way delay: 149.257 ms

Loss rate: 2.19%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-11-30 08:48:32

End at: 2018-11-30 08:49:02

Local clock offset: -0.246 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at 2018-11-30 11:39:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 556.25 Mbit/s

95th percentile per-packet one-way delay: 144.605 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 287.99 Mbit/s

95th percentile per-packet one-way delay: 141.341 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 287.77 Mbit/s

95th percentile per-packet one-way delay: 151.997 ms

Loss rate: 0.97%

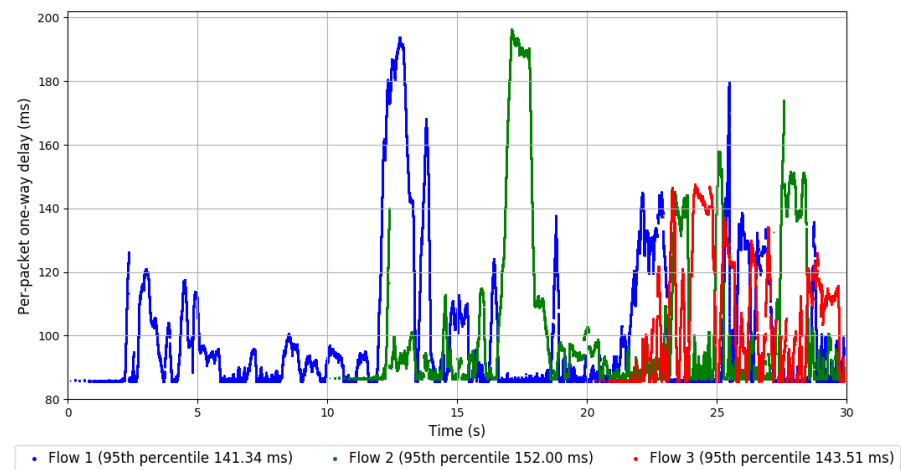
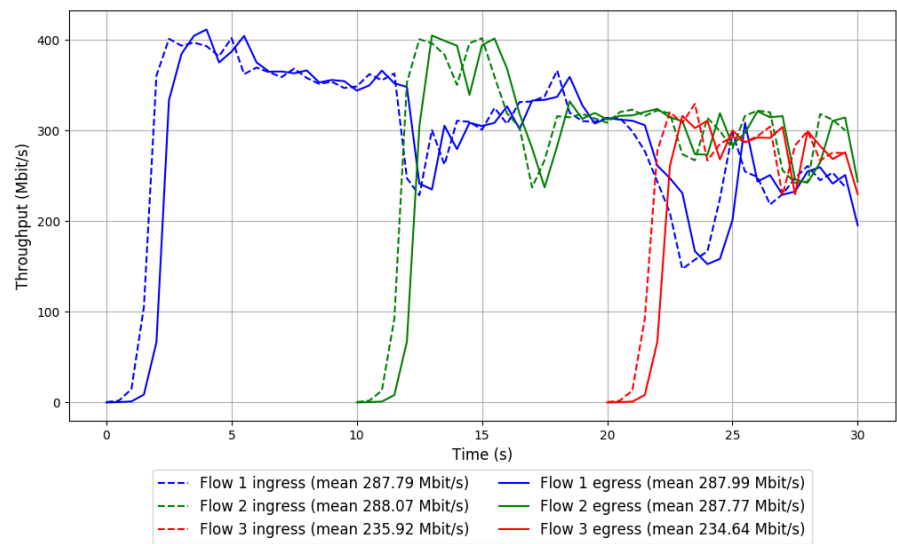
-- Flow 3:

Average throughput: 234.64 Mbit/s

95th percentile per-packet one-way delay: 143.507 ms

Loss rate: 2.26%

Run 2: Report of Copa — Data Link

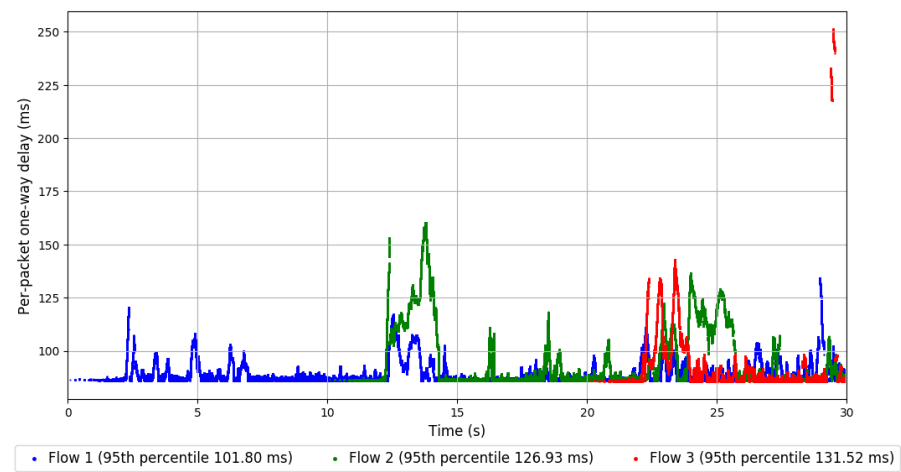
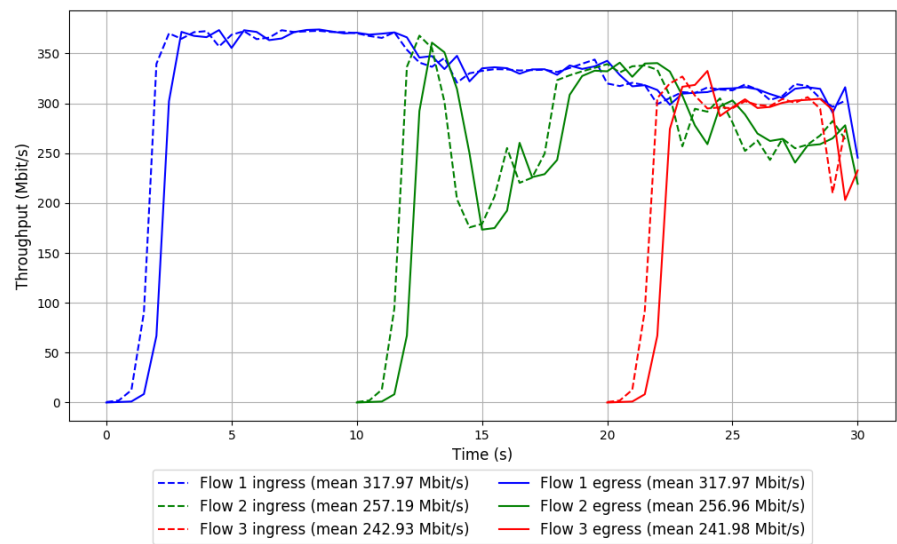


Run 3: Statistics of Copa

Start at: 2018-11-30 09:23:29
End at: 2018-11-30 09:23:59
Local clock offset: -0.624 ms
Remote clock offset: -0.135 ms

Below is generated by plot.py at 2018-11-30 11:39:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 568.10 Mbit/s
95th percentile per-packet one-way delay: 117.930 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 317.97 Mbit/s
95th percentile per-packet one-way delay: 101.802 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 256.96 Mbit/s
95th percentile per-packet one-way delay: 126.933 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 241.98 Mbit/s
95th percentile per-packet one-way delay: 131.523 ms
Loss rate: 2.11%

Run 3: Report of Copa — Data Link

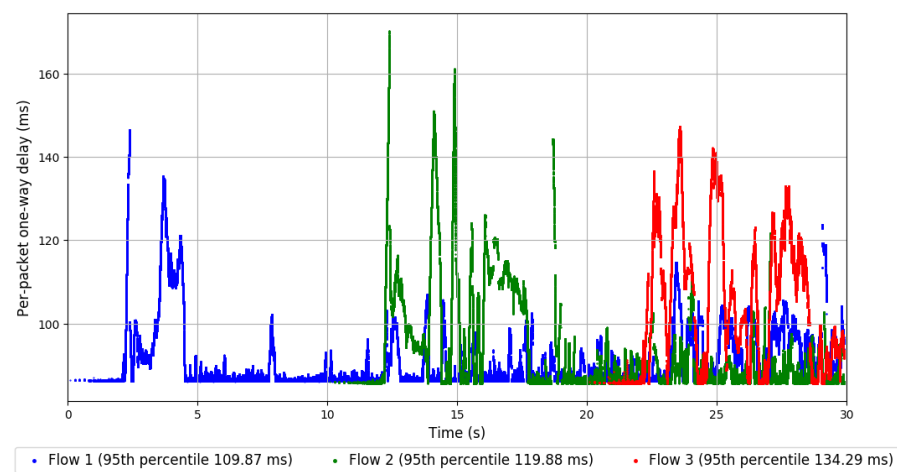
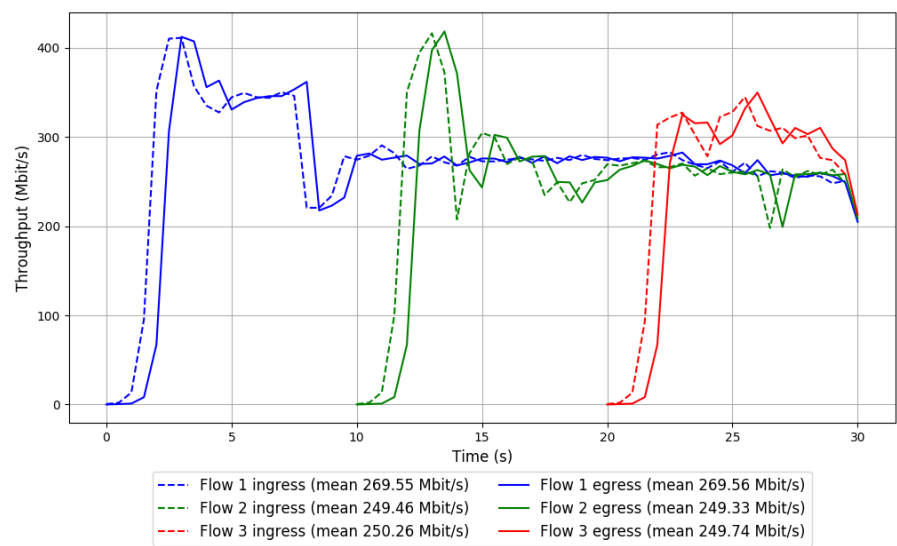


Run 4: Statistics of Copa

Start at: 2018-11-30 09:57:51
End at: 2018-11-30 09:58:22
Local clock offset: -0.698 ms
Remote clock offset: -0.168 ms

```
# Below is generated by plot.py at 2018-11-30 11:54:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 517.24 Mbit/s
95th percentile per-packet one-way delay: 122.807 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 269.56 Mbit/s
95th percentile per-packet one-way delay: 109.867 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 249.33 Mbit/s
95th percentile per-packet one-way delay: 119.884 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 249.74 Mbit/s
95th percentile per-packet one-way delay: 134.288 ms
Loss rate: 1.93%
```

Run 4: Report of Copa — Data Link

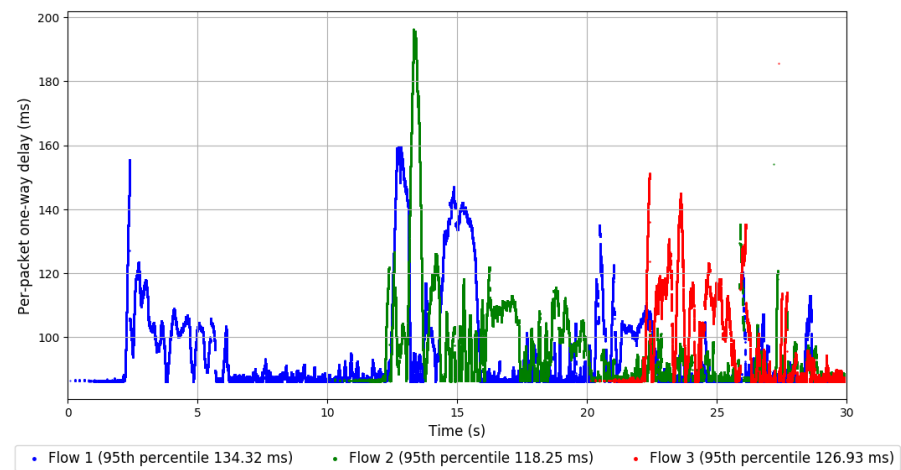
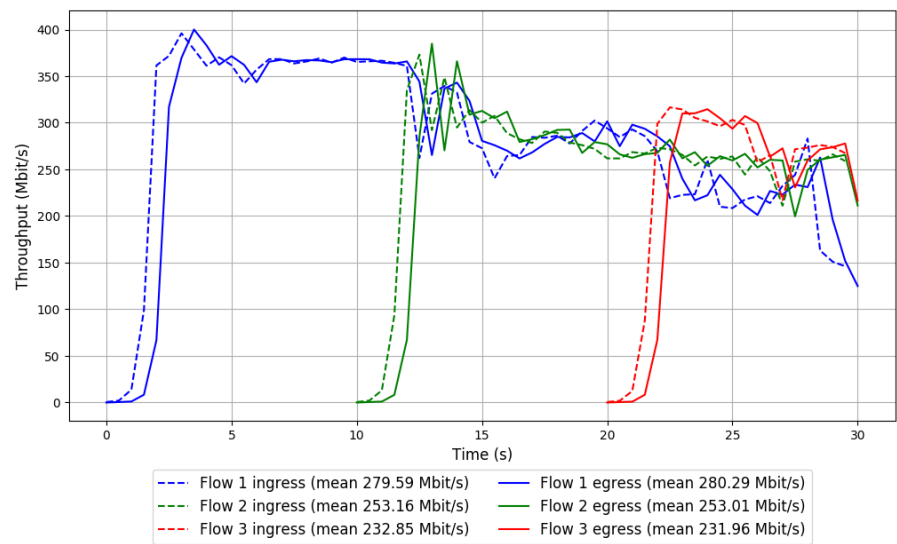


Run 5: Statistics of Copa

Start at: 2018-11-30 10:31:47
End at: 2018-11-30 10:32:17
Local clock offset: -0.894 ms
Remote clock offset: -0.016 ms

Below is generated by plot.py at 2018-11-30 11:55:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 524.52 Mbit/s
95th percentile per-packet one-way delay: 127.339 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 280.29 Mbit/s
95th percentile per-packet one-way delay: 134.316 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 253.01 Mbit/s
95th percentile per-packet one-way delay: 118.250 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 231.96 Mbit/s
95th percentile per-packet one-way delay: 126.932 ms
Loss rate: 2.11%

Run 5: Report of Copa — Data Link

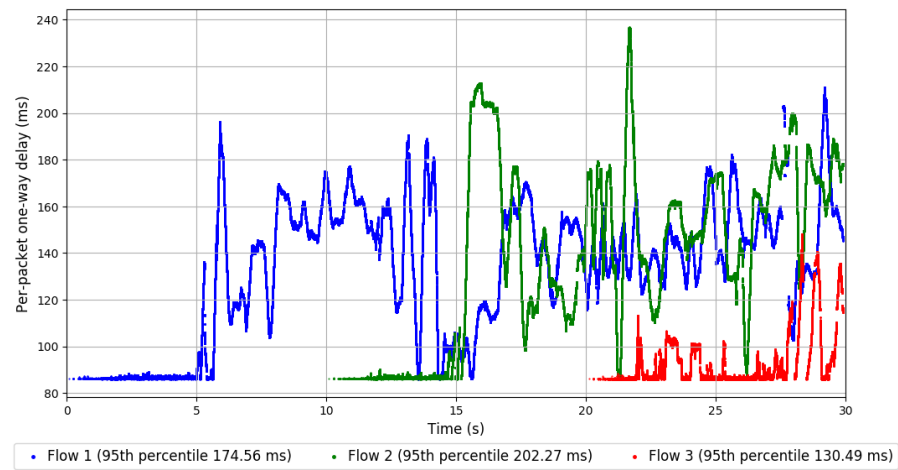
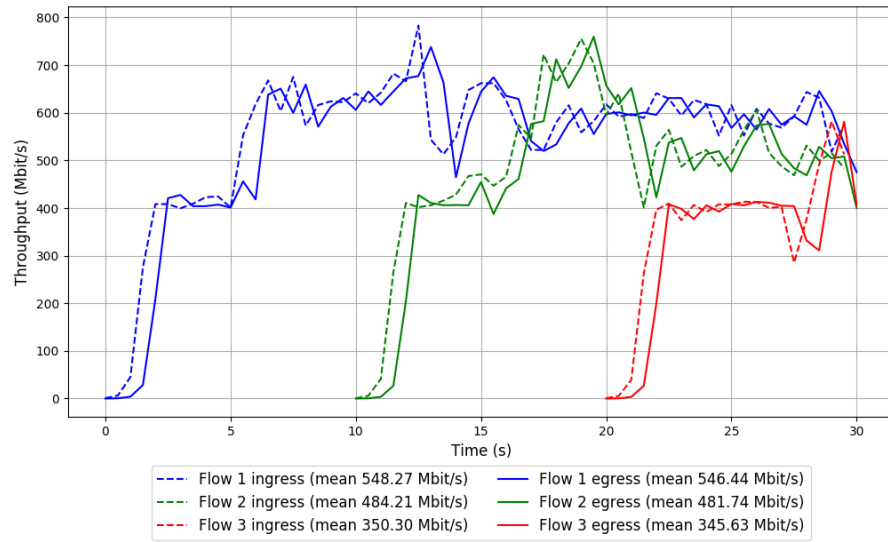


Run 1: Statistics of TCP Cubic

Start at: 2018-11-30 08:10:16
End at: 2018-11-30 08:10:46
Local clock offset: 0.104 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2018-11-30 11:56:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 979.76 Mbit/s
95th percentile per-packet one-way delay: 181.588 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 546.44 Mbit/s
95th percentile per-packet one-way delay: 174.565 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 481.74 Mbit/s
95th percentile per-packet one-way delay: 202.273 ms
Loss rate: 1.37%
-- Flow 3:
Average throughput: 345.63 Mbit/s
95th percentile per-packet one-way delay: 130.486 ms
Loss rate: 3.05%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-11-30 08:44:28

End at: 2018-11-30 08:44:58

Local clock offset: -0.034 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2018-11-30 11:57:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 993.14 Mbit/s

95th percentile per-packet one-way delay: 176.247 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 526.45 Mbit/s

95th percentile per-packet one-way delay: 180.777 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 519.55 Mbit/s

95th percentile per-packet one-way delay: 166.925 ms

Loss rate: 0.95%

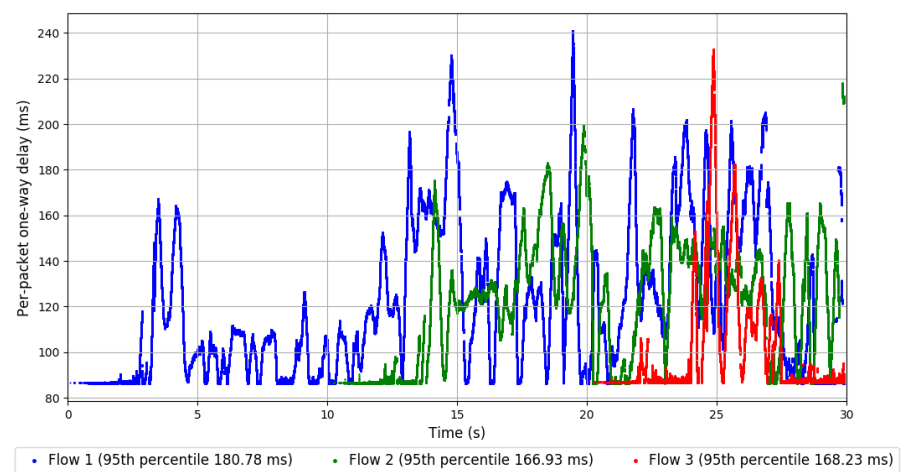
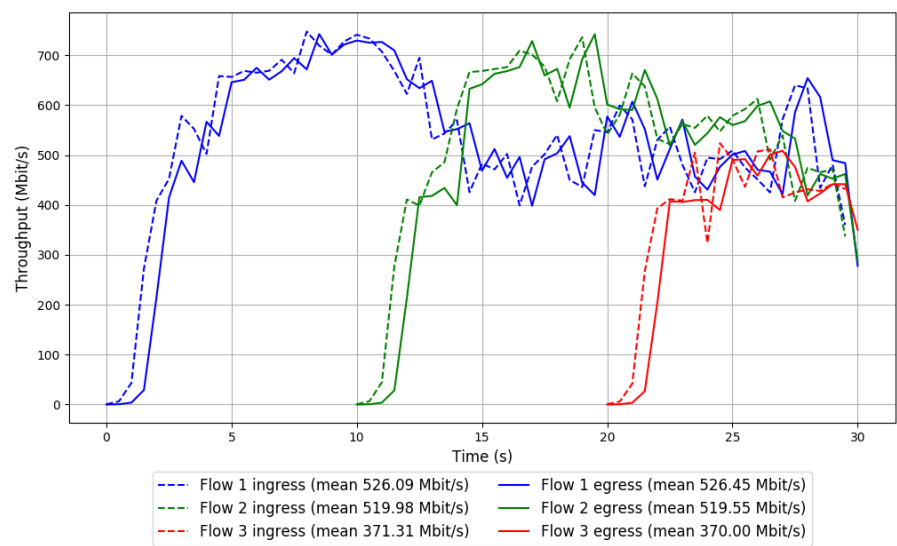
-- Flow 3:

Average throughput: 370.00 Mbit/s

95th percentile per-packet one-way delay: 168.234 ms

Loss rate: 2.09%

Run 2: Report of TCP Cubic — Data Link

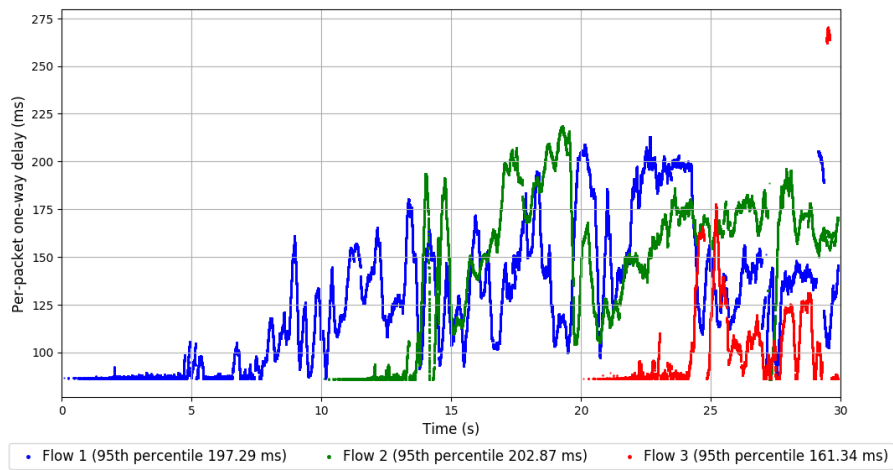
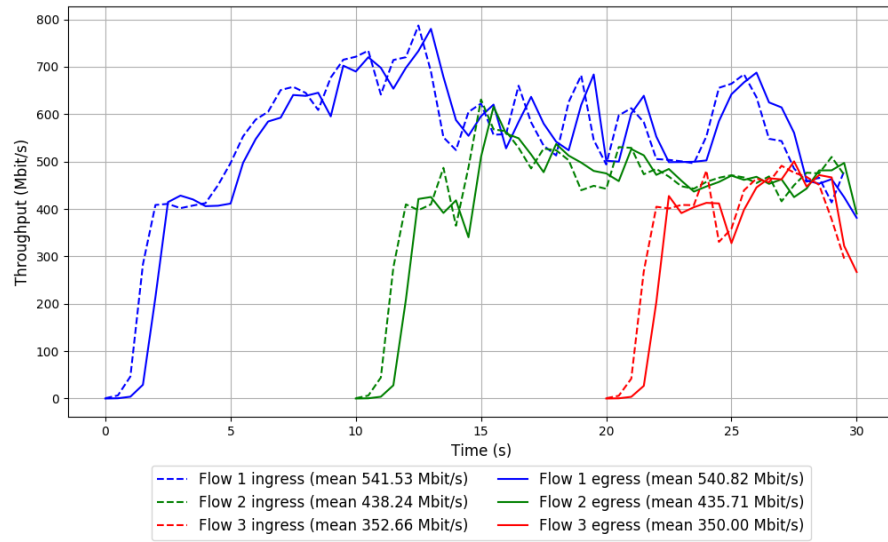


Run 3: Statistics of TCP Cubic

Start at: 2018-11-30 09:19:14
End at: 2018-11-30 09:19:44
Local clock offset: -0.448 ms
Remote clock offset: -0.134 ms

Below is generated by plot.py at 2018-11-30 11:57:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 945.22 Mbit/s
95th percentile per-packet one-way delay: 197.813 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 540.82 Mbit/s
95th percentile per-packet one-way delay: 197.292 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 435.71 Mbit/s
95th percentile per-packet one-way delay: 202.872 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 350.00 Mbit/s
95th percentile per-packet one-way delay: 161.340 ms
Loss rate: 2.47%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-11-30 09:54:08

End at: 2018-11-30 09:54:38

Local clock offset: -0.266 ms

Remote clock offset: -0.19 ms

Below is generated by plot.py at 2018-11-30 11:57:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 921.50 Mbit/s

95th percentile per-packet one-way delay: 202.802 ms

Loss rate: 1.82%

-- Flow 1:

Average throughput: 512.41 Mbit/s

95th percentile per-packet one-way delay: 198.409 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 432.68 Mbit/s

95th percentile per-packet one-way delay: 200.763 ms

Loss rate: 1.14%

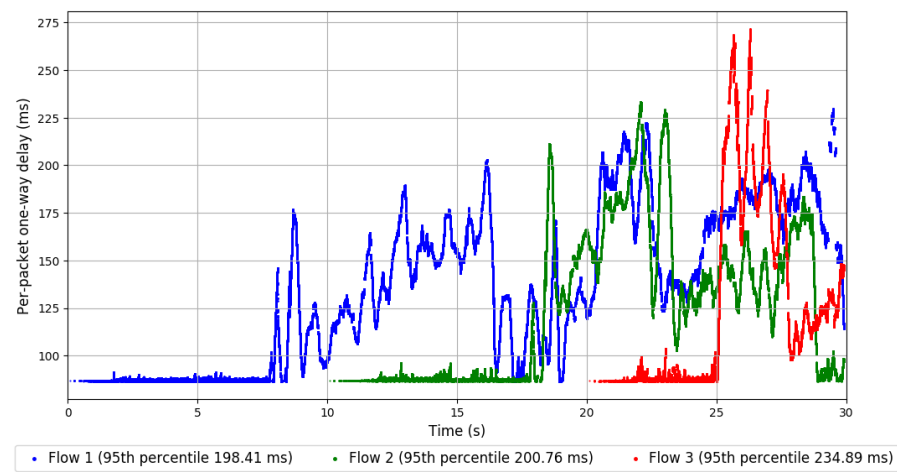
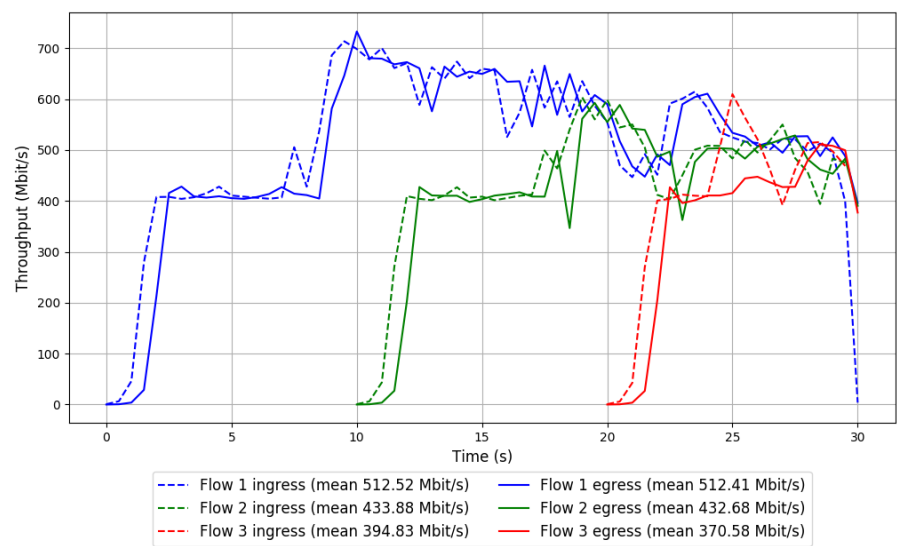
-- Flow 3:

Average throughput: 370.58 Mbit/s

95th percentile per-packet one-way delay: 234.892 ms

Loss rate: 7.77%

Run 4: Report of TCP Cubic — Data Link

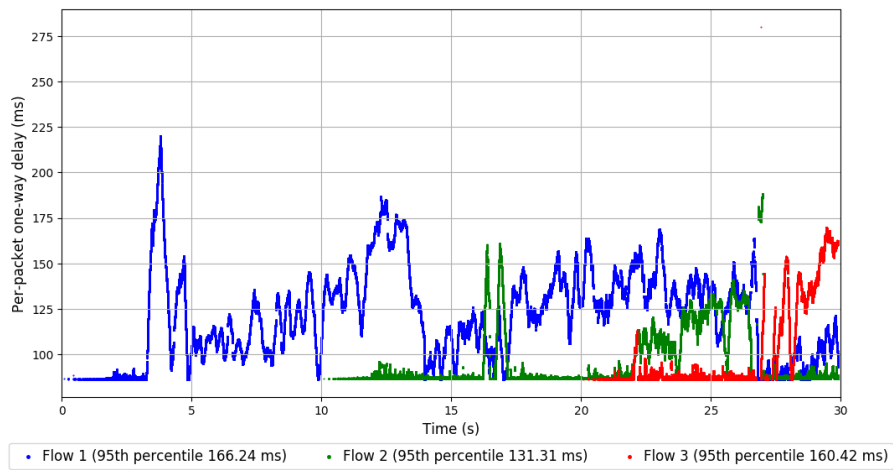
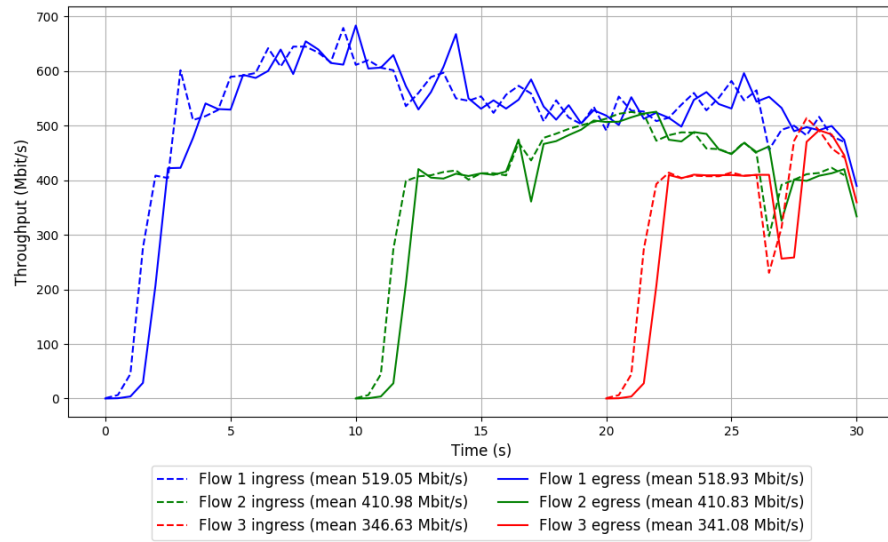


Run 5: Statistics of TCP Cubic

Start at: 2018-11-30 10:27:48
End at: 2018-11-30 10:28:18
Local clock offset: -0.916 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2018-11-30 11:57:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 903.96 Mbit/s
95th percentile per-packet one-way delay: 160.339 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 518.93 Mbit/s
95th percentile per-packet one-way delay: 166.241 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 410.83 Mbit/s
95th percentile per-packet one-way delay: 131.313 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 341.08 Mbit/s
95th percentile per-packet one-way delay: 160.421 ms
Loss rate: 3.30%

Run 5: Report of TCP Cubic — Data Link

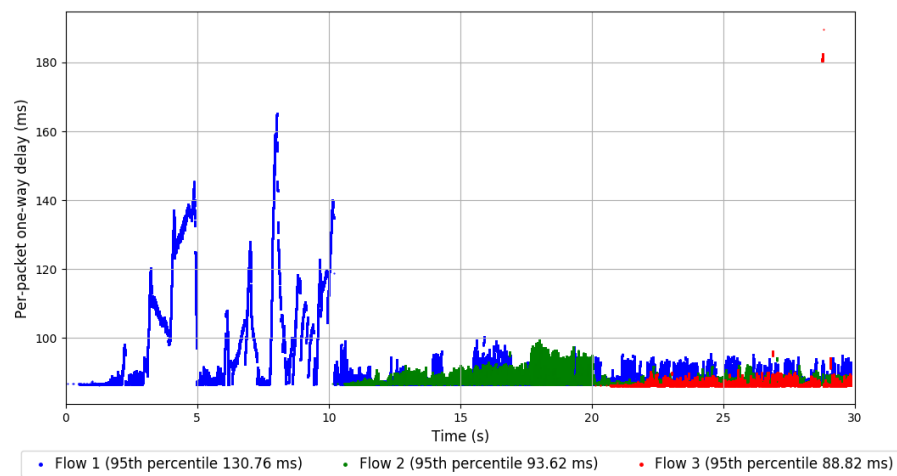
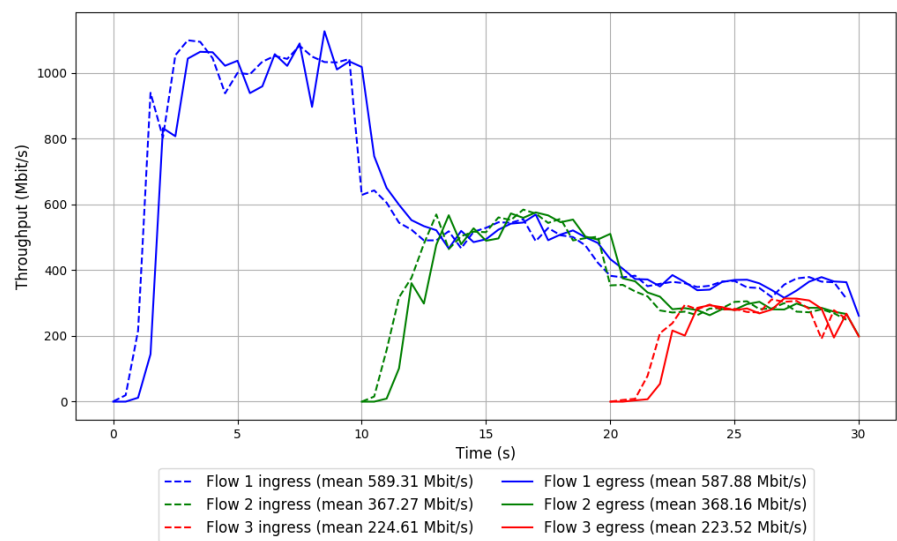


Run 1: Statistics of FillP

Start at: 2018-11-30 08:16:25
End at: 2018-11-30 08:16:55
Local clock offset: 0.386 ms
Remote clock offset: -0.083 ms

Below is generated by plot.py at 2018-11-30 12:01:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 904.26 Mbit/s
95th percentile per-packet one-way delay: 122.587 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 587.88 Mbit/s
95th percentile per-packet one-way delay: 130.760 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 368.16 Mbit/s
95th percentile per-packet one-way delay: 93.621 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 223.52 Mbit/s
95th percentile per-packet one-way delay: 88.817 ms
Loss rate: 2.29%

Run 1: Report of FillP — Data Link

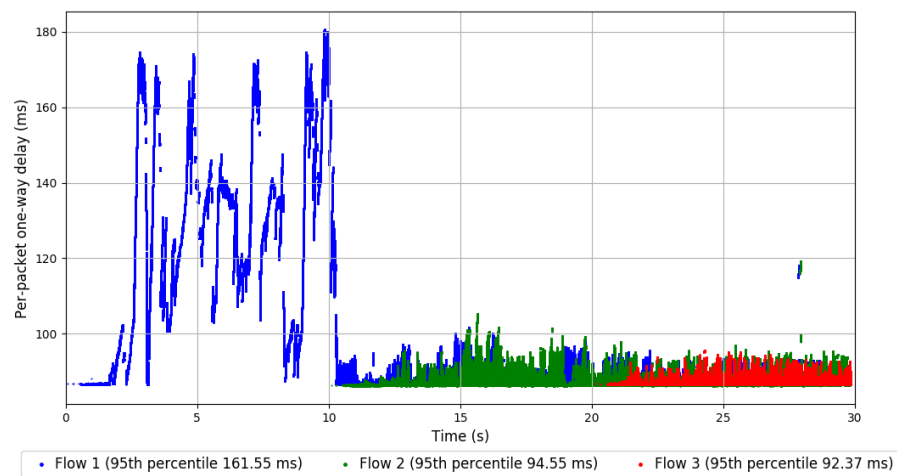
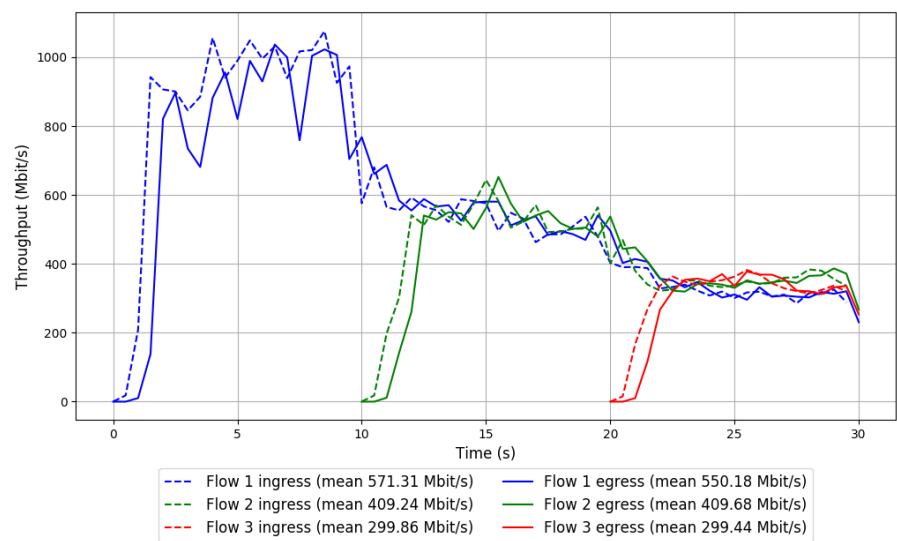


Run 2: Statistics of FillP

Start at: 2018-11-30 08:51:05
End at: 2018-11-30 08:51:35
Local clock offset: -0.233 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-11-30 12:17:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 919.69 Mbit/s
95th percentile per-packet one-way delay: 148.385 ms
Loss rate: 3.01%
-- Flow 1:
Average throughput: 550.18 Mbit/s
95th percentile per-packet one-way delay: 161.547 ms
Loss rate: 4.26%
-- Flow 2:
Average throughput: 409.68 Mbit/s
95th percentile per-packet one-way delay: 94.548 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 299.44 Mbit/s
95th percentile per-packet one-way delay: 92.374 ms
Loss rate: 1.93%

Run 2: Report of FillP — Data Link

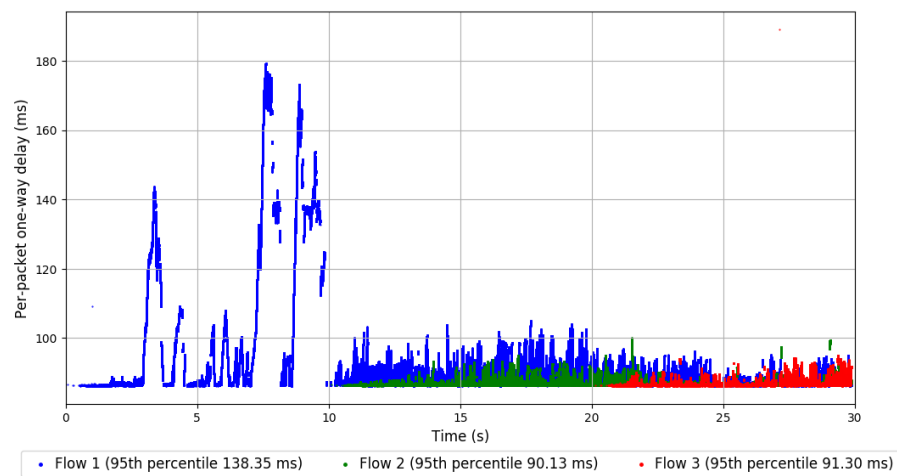
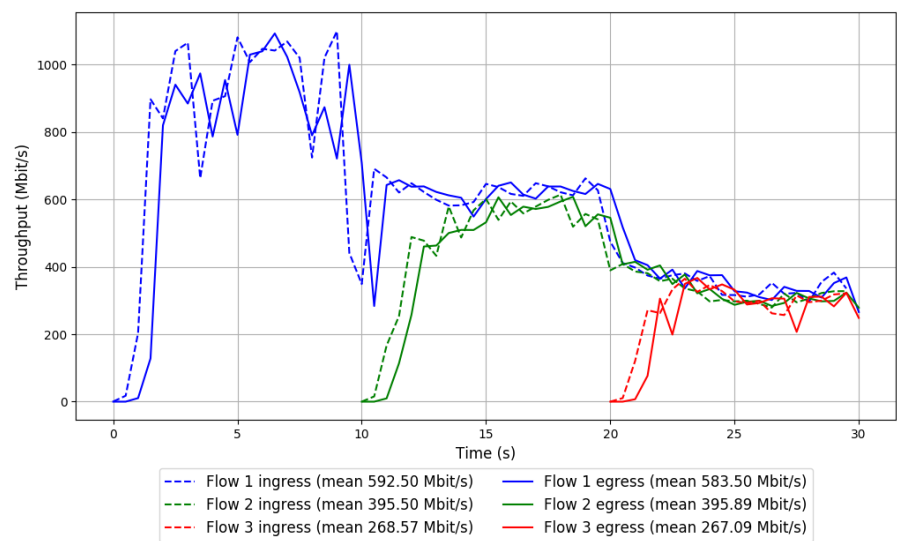


Run 3: Statistics of FillP

Start at: 2018-11-30 09:25:42
End at: 2018-11-30 09:26:12
Local clock offset: -0.469 ms
Remote clock offset: -0.104 ms

Below is generated by plot.py at 2018-11-30 12:18:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 933.53 Mbit/s
95th percentile per-packet one-way delay: 135.610 ms
Loss rate: 1.72%
-- Flow 1:
Average throughput: 583.50 Mbit/s
95th percentile per-packet one-way delay: 138.346 ms
Loss rate: 2.03%
-- Flow 2:
Average throughput: 395.89 Mbit/s
95th percentile per-packet one-way delay: 90.126 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 267.09 Mbit/s
95th percentile per-packet one-way delay: 91.296 ms
Loss rate: 2.37%

Run 3: Report of FillP — Data Link

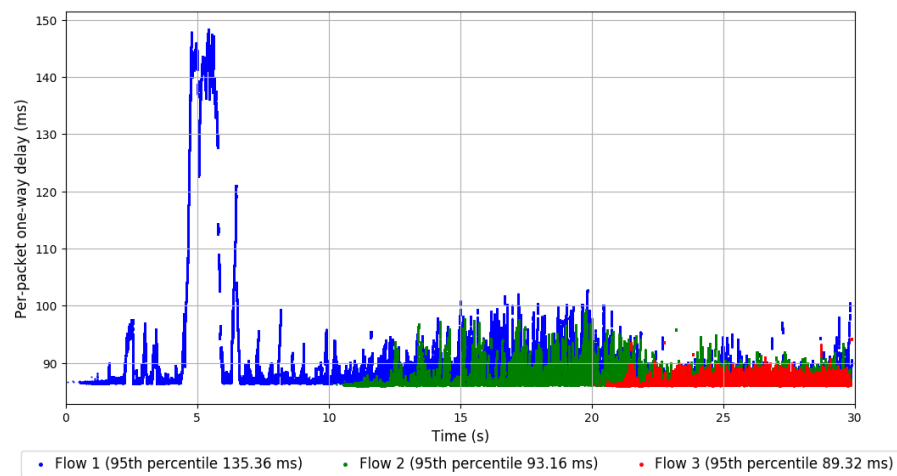
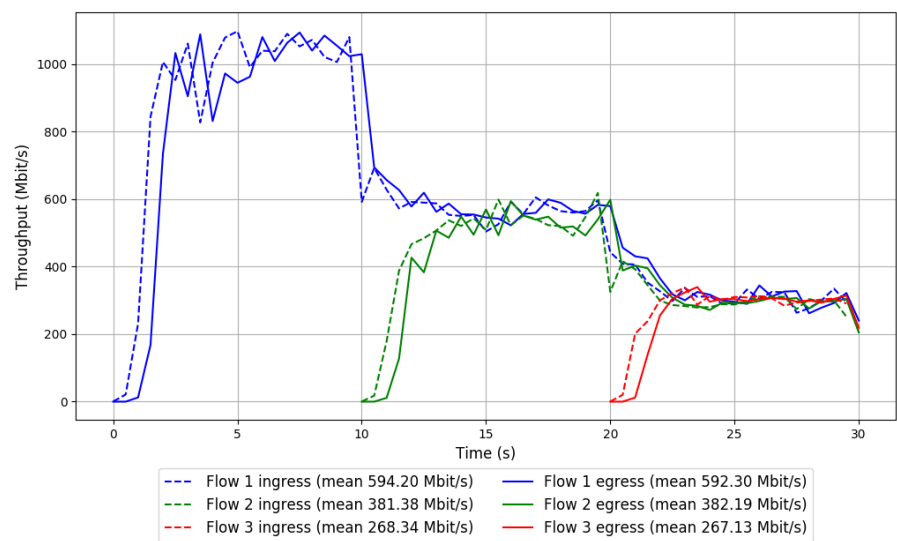


Run 4: Statistics of FillP

Start at: 2018-11-30 09:59:59
End at: 2018-11-30 10:00:29
Local clock offset: -0.469 ms
Remote clock offset: -0.151 ms

Below is generated by plot.py at 2018-11-30 12:18:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 933.36 Mbit/s
95th percentile per-packet one-way delay: 101.539 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 592.30 Mbit/s
95th percentile per-packet one-way delay: 135.362 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 382.19 Mbit/s
95th percentile per-packet one-way delay: 93.160 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 267.13 Mbit/s
95th percentile per-packet one-way delay: 89.324 ms
Loss rate: 2.15%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-11-30 10:33:57

End at: 2018-11-30 10:34:27

Local clock offset: -1.07 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-11-30 12:18:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 934.85 Mbit/s

95th percentile per-packet one-way delay: 140.437 ms

Loss rate: 2.20%

-- Flow 1:

Average throughput: 583.34 Mbit/s

95th percentile per-packet one-way delay: 148.752 ms

Loss rate: 2.97%

-- Flow 2:

Average throughput: 392.89 Mbit/s

95th percentile per-packet one-way delay: 94.342 ms

Loss rate: 0.59%

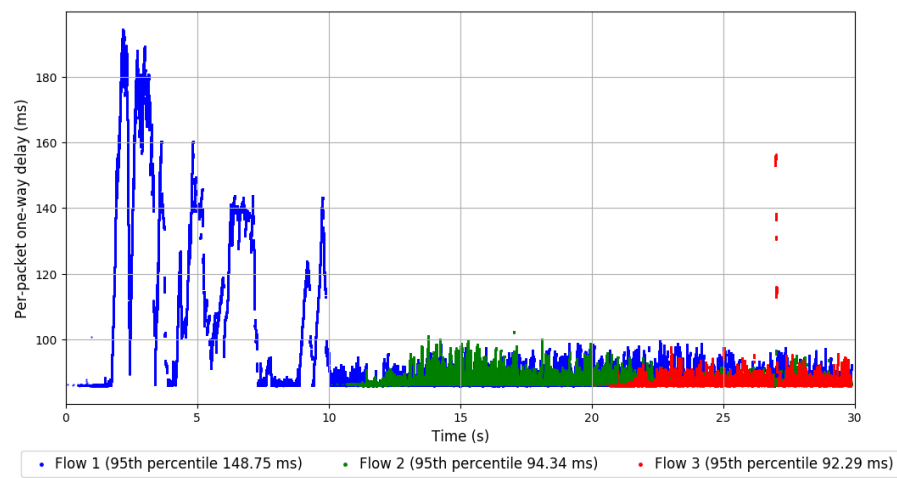
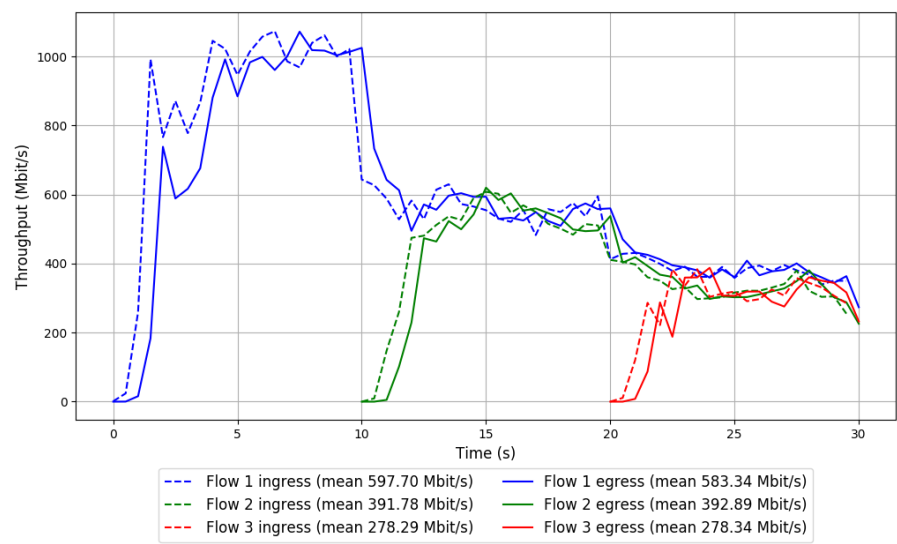
-- Flow 3:

Average throughput: 278.34 Mbit/s

95th percentile per-packet one-way delay: 92.288 ms

Loss rate: 1.80%

Run 5: Report of FillP — Data Link

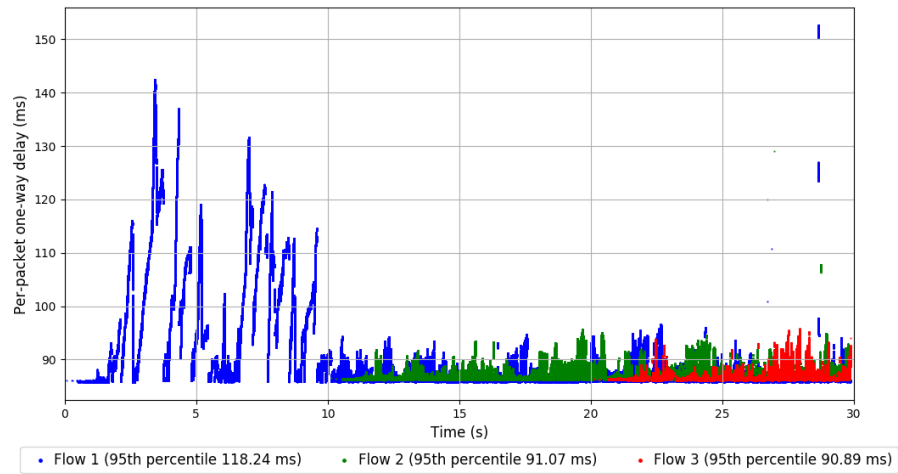
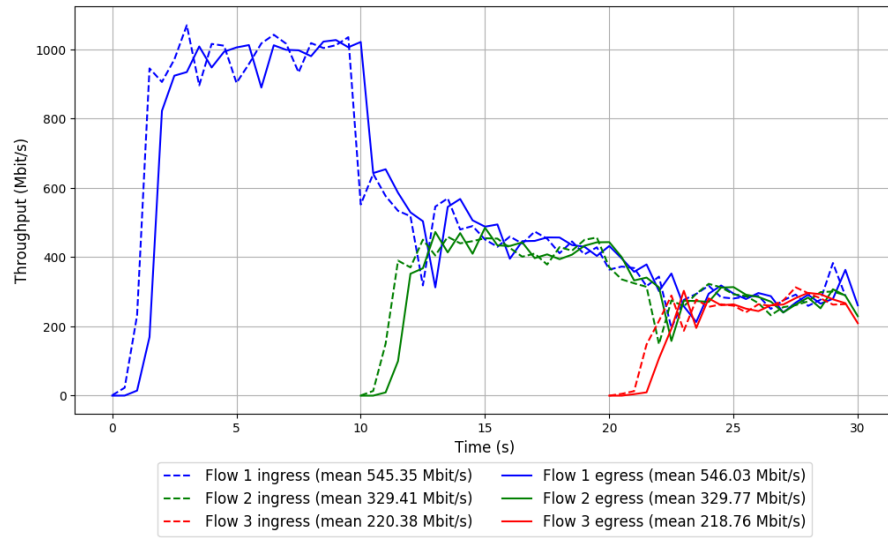


Run 1: Statistics of FillP-Sheep

Start at: 2018-11-30 08:12:26
End at: 2018-11-30 08:12:56
Local clock offset: 0.336 ms
Remote clock offset: -0.018 ms

Below is generated by plot.py at 2018-11-30 12:18:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 836.12 Mbit/s
95th percentile per-packet one-way delay: 113.019 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 546.03 Mbit/s
95th percentile per-packet one-way delay: 118.243 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 329.77 Mbit/s
95th percentile per-packet one-way delay: 91.069 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 218.76 Mbit/s
95th percentile per-packet one-way delay: 90.892 ms
Loss rate: 2.47%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-11-30 08:46:39

End at: 2018-11-30 08:47:09

Local clock offset: -0.251 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2018-11-30 12:18:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 869.86 Mbit/s

95th percentile per-packet one-way delay: 120.920 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 553.48 Mbit/s

95th percentile per-packet one-way delay: 127.994 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 337.59 Mbit/s

95th percentile per-packet one-way delay: 90.364 ms

Loss rate: 0.79%

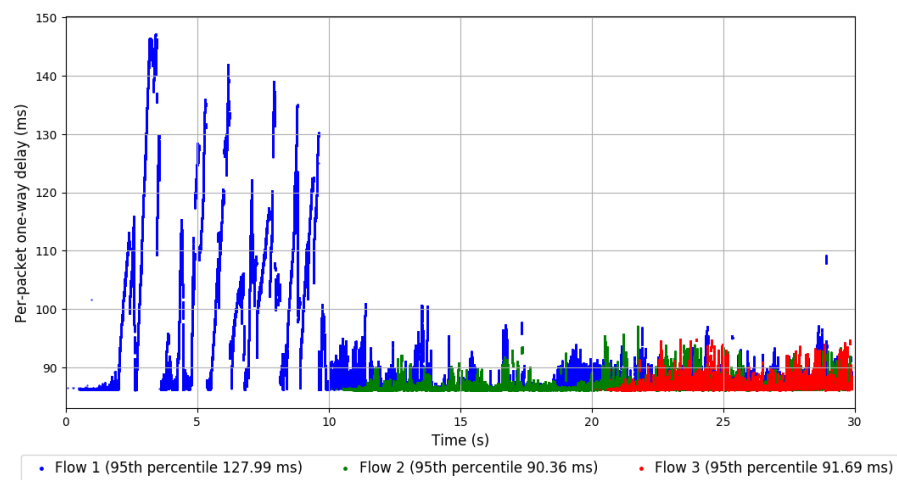
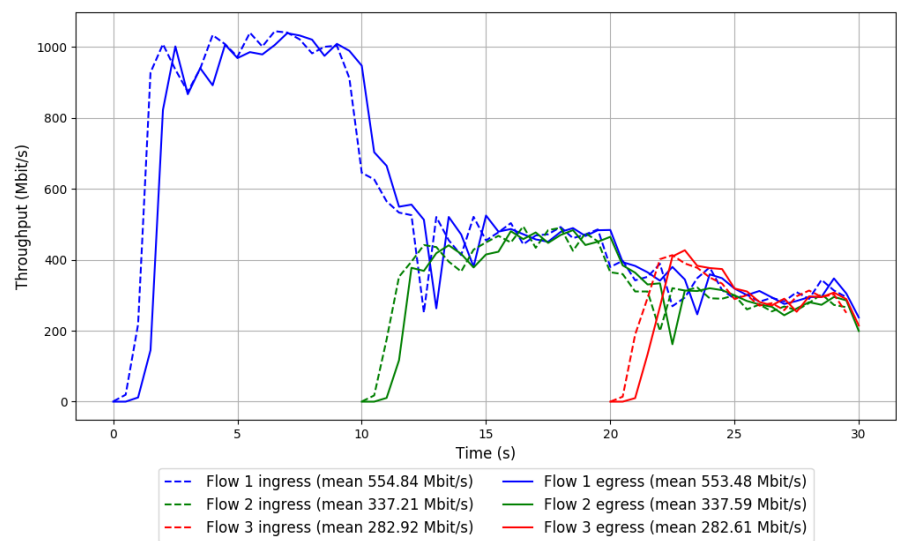
-- Flow 3:

Average throughput: 282.61 Mbit/s

95th percentile per-packet one-way delay: 91.687 ms

Loss rate: 1.86%

Run 2: Report of FillP-Sheep — Data Link

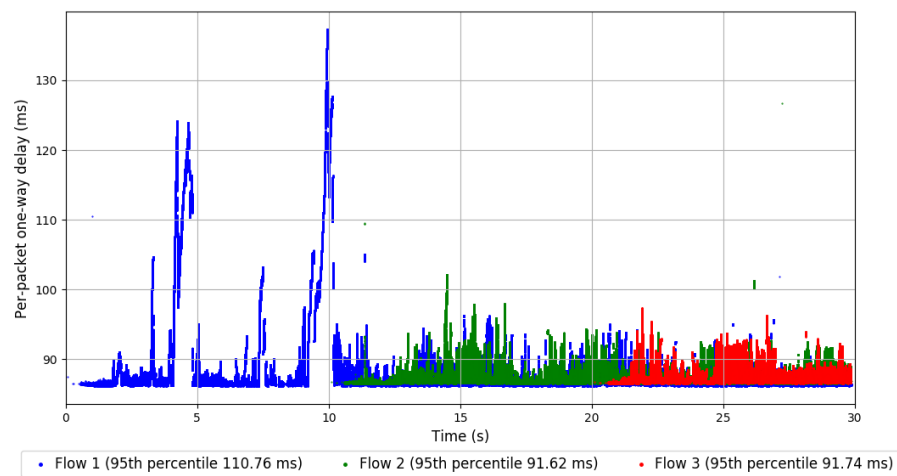
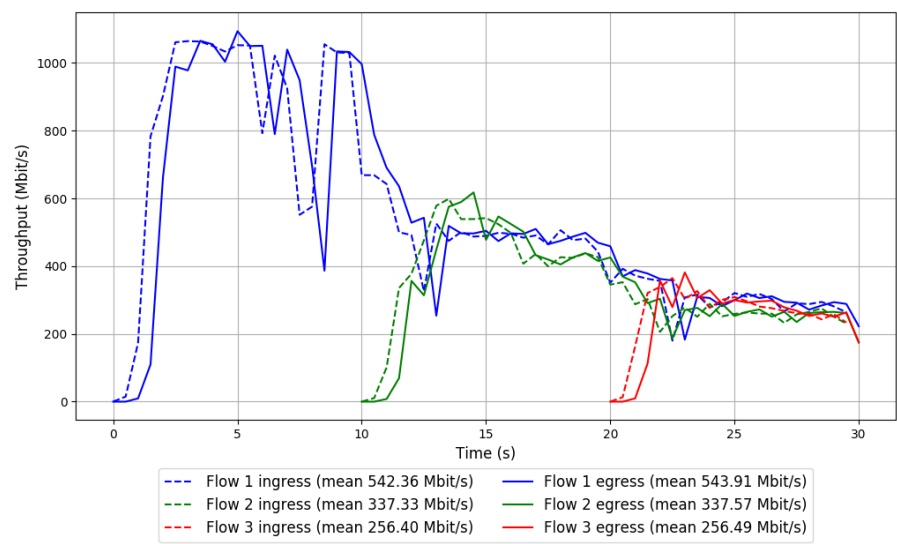


Run 3: Statistics of FillP-Sheep

Start at: 2018-11-30 09:21:32
End at: 2018-11-30 09:22:02
Local clock offset: -0.486 ms
Remote clock offset: -0.129 ms

Below is generated by plot.py at 2018-11-30 12:18:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 852.01 Mbit/s
95th percentile per-packet one-way delay: 101.887 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 543.91 Mbit/s
95th percentile per-packet one-way delay: 110.763 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 337.57 Mbit/s
95th percentile per-packet one-way delay: 91.616 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 256.49 Mbit/s
95th percentile per-packet one-way delay: 91.743 ms
Loss rate: 1.77%

Run 3: Report of FillP-Sheep — Data Link

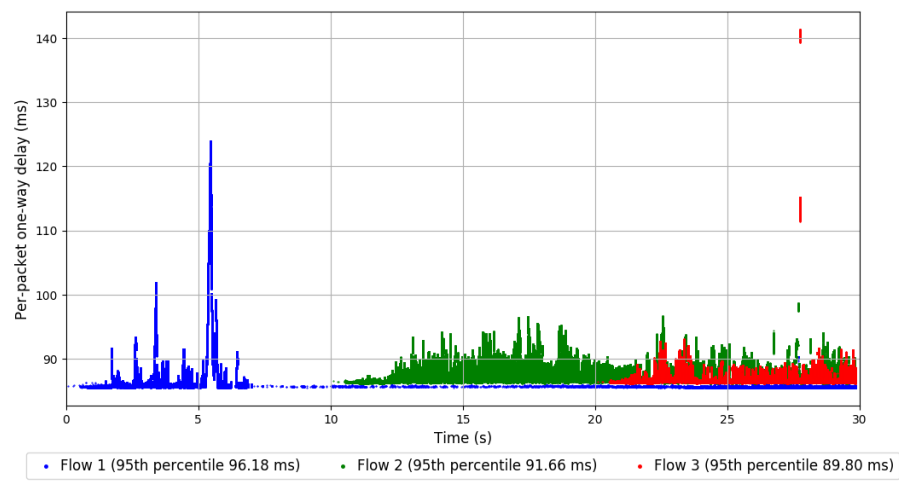
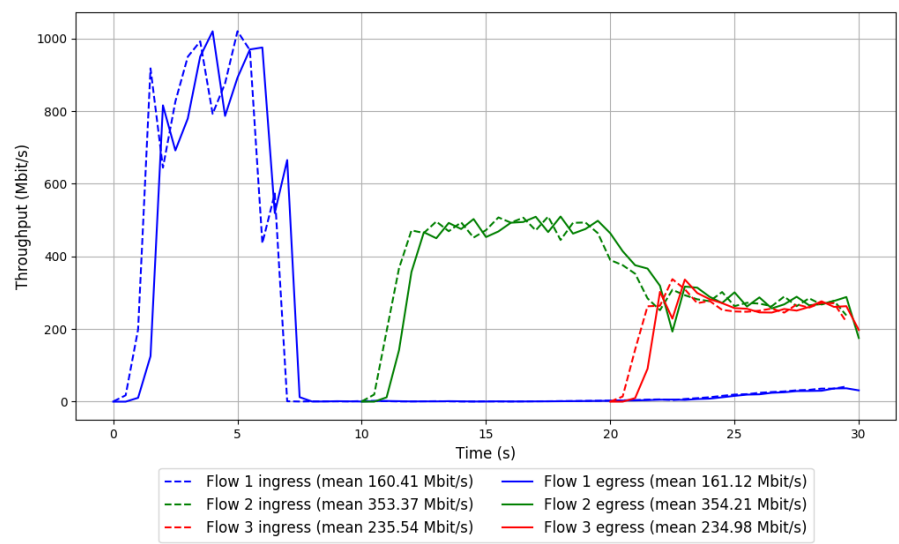


Run 4: Statistics of FillP-Sheep

Start at: 2018-11-30 09:56:14
End at: 2018-11-30 09:56:44
Local clock offset: -0.925 ms
Remote clock offset: -0.178 ms

Below is generated by plot.py at 2018-11-30 12:18:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 472.98 Mbit/s
95th percentile per-packet one-way delay: 91.975 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 161.12 Mbit/s
95th percentile per-packet one-way delay: 96.176 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 354.21 Mbit/s
95th percentile per-packet one-way delay: 91.661 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 234.98 Mbit/s
95th percentile per-packet one-way delay: 89.795 ms
Loss rate: 1.73%

Run 4: Report of FillP-Sheep — Data Link

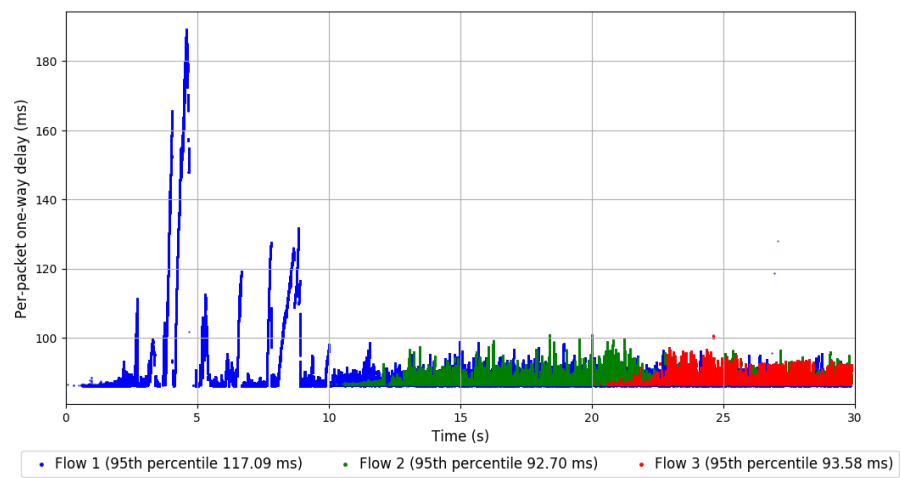
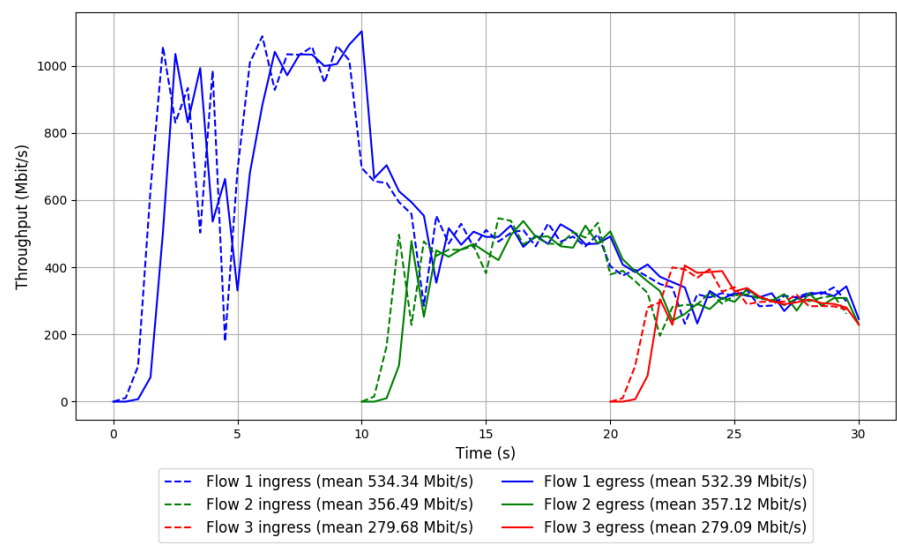


Run 5: Statistics of FillP-Sheep

Start at: 2018-11-30 10:29:53
End at: 2018-11-30 10:30:23
Local clock offset: -0.683 ms
Remote clock offset: -0.017 ms

Below is generated by plot.py at 2018-11-30 12:34:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 860.53 Mbit/s
95th percentile per-packet one-way delay: 107.658 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 532.39 Mbit/s
95th percentile per-packet one-way delay: 117.094 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 357.12 Mbit/s
95th percentile per-packet one-way delay: 92.699 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 279.09 Mbit/s
95th percentile per-packet one-way delay: 93.579 ms
Loss rate: 1.85%

Run 5: Report of FillP-Sheep — Data Link

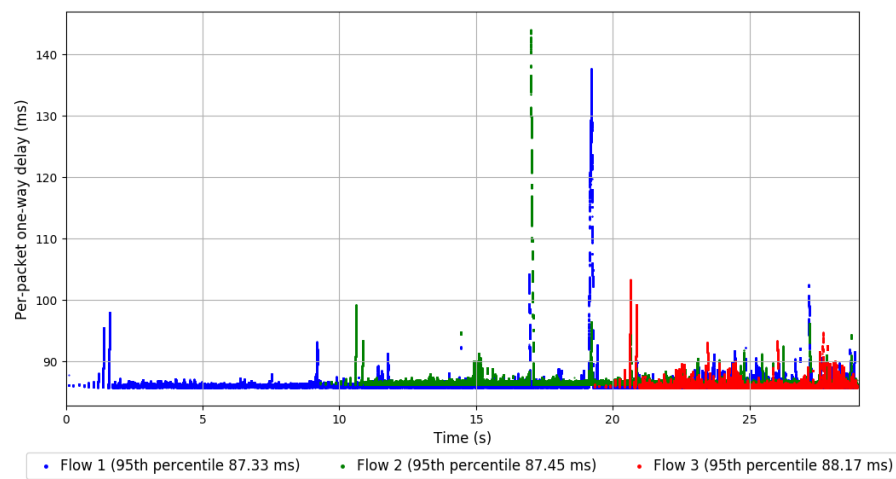
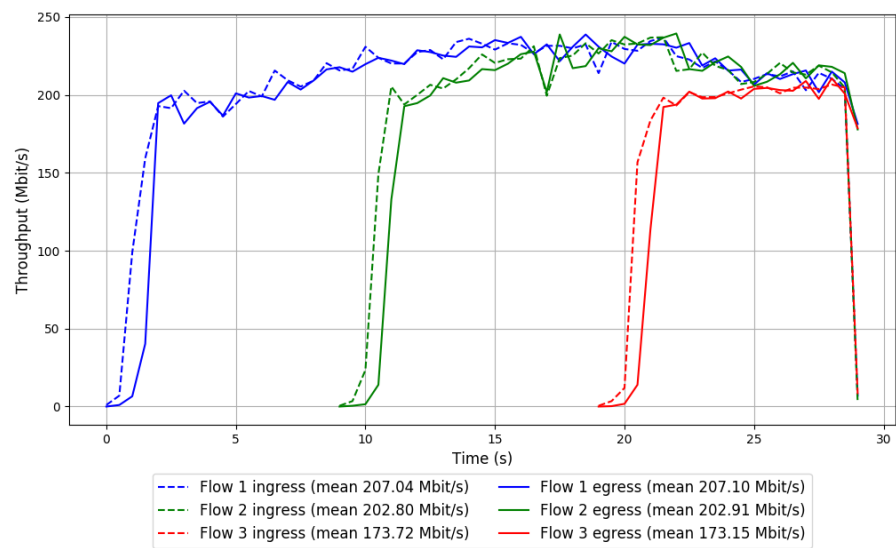


Run 1: Statistics of Indigo

Start at: 2018-11-30 08:19:37
End at: 2018-11-30 08:20:07
Local clock offset: 0.061 ms
Remote clock offset: -0.045 ms

Below is generated by plot.py at 2018-11-30 12:34:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 402.76 Mbit/s
95th percentile per-packet one-way delay: 87.499 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 207.10 Mbit/s
95th percentile per-packet one-way delay: 87.329 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 202.91 Mbit/s
95th percentile per-packet one-way delay: 87.452 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 173.15 Mbit/s
95th percentile per-packet one-way delay: 88.169 ms
Loss rate: 2.10%

Run 1: Report of Indigo — Data Link

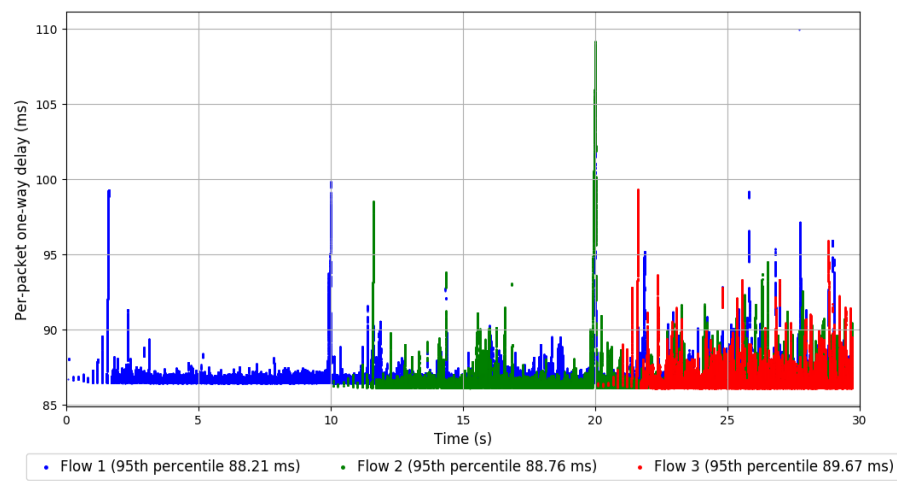
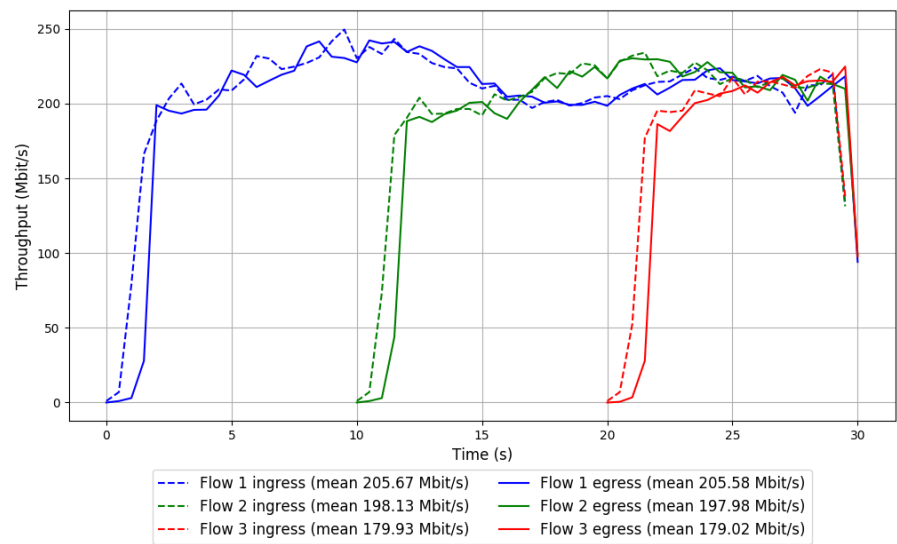


Run 2: Statistics of Indigo

Start at: 2018-11-30 08:54:19
End at: 2018-11-30 08:54:49
Local clock offset: -0.304 ms
Remote clock offset: -0.051 ms

Below is generated by plot.py at 2018-11-30 12:34:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 394.70 Mbit/s
95th percentile per-packet one-way delay: 88.679 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 205.58 Mbit/s
95th percentile per-packet one-way delay: 88.210 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 197.98 Mbit/s
95th percentile per-packet one-way delay: 88.763 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 179.02 Mbit/s
95th percentile per-packet one-way delay: 89.671 ms
Loss rate: 2.25%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-11-30 09:28:55

End at: 2018-11-30 09:29:25

Local clock offset: -0.936 ms

Remote clock offset: -0.13 ms

Below is generated by plot.py at 2018-11-30 12:34:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 400.18 Mbit/s

95th percentile per-packet one-way delay: 89.137 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 211.60 Mbit/s

95th percentile per-packet one-way delay: 89.001 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 201.10 Mbit/s

95th percentile per-packet one-way delay: 89.400 ms

Loss rate: 0.95%

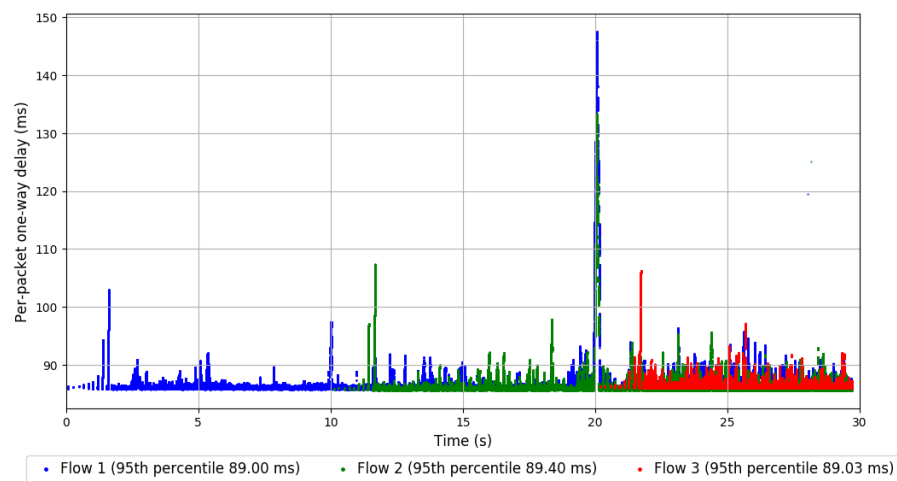
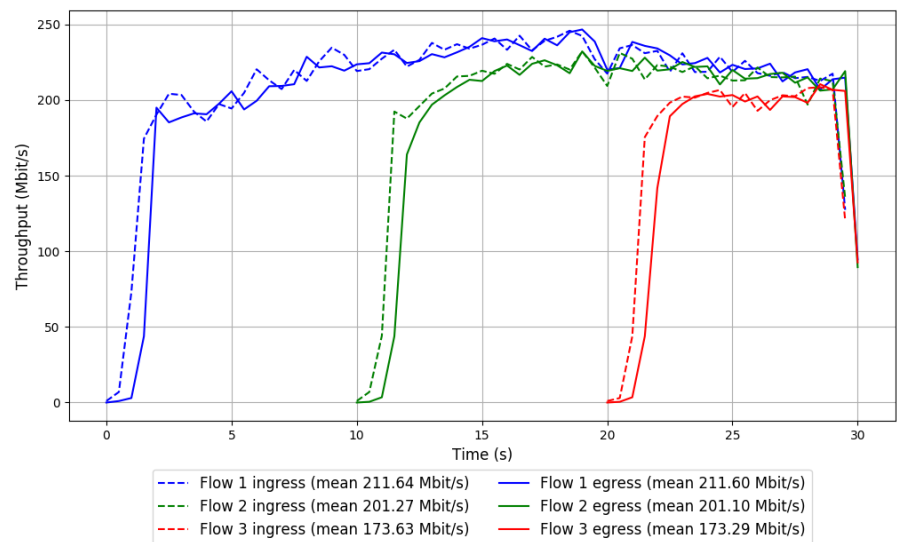
-- Flow 3:

Average throughput: 173.29 Mbit/s

95th percentile per-packet one-way delay: 89.032 ms

Loss rate: 1.98%

Run 3: Report of Indigo — Data Link

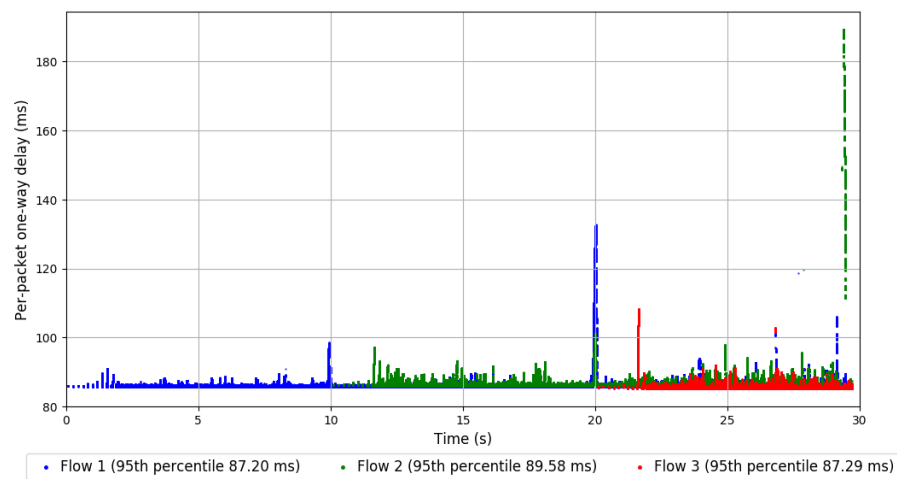
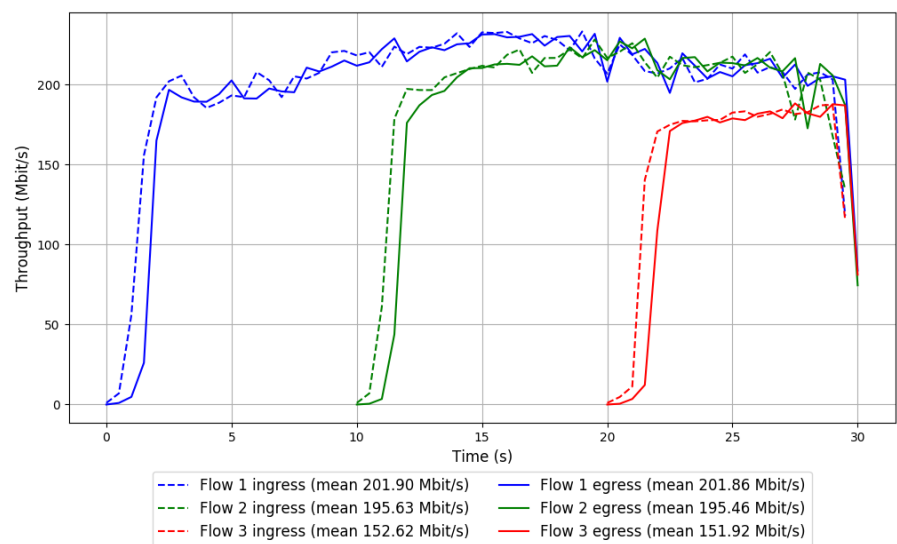


Run 4: Statistics of Indigo

Start at: 2018-11-30 10:03:13
End at: 2018-11-30 10:03:43
Local clock offset: -1.14 ms
Remote clock offset: -0.114 ms

Below is generated by plot.py at 2018-11-30 12:34:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 380.30 Mbit/s
95th percentile per-packet one-way delay: 88.147 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 201.86 Mbit/s
95th percentile per-packet one-way delay: 87.198 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 195.46 Mbit/s
95th percentile per-packet one-way delay: 89.582 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 151.92 Mbit/s
95th percentile per-packet one-way delay: 87.294 ms
Loss rate: 2.23%

Run 4: Report of Indigo — Data Link

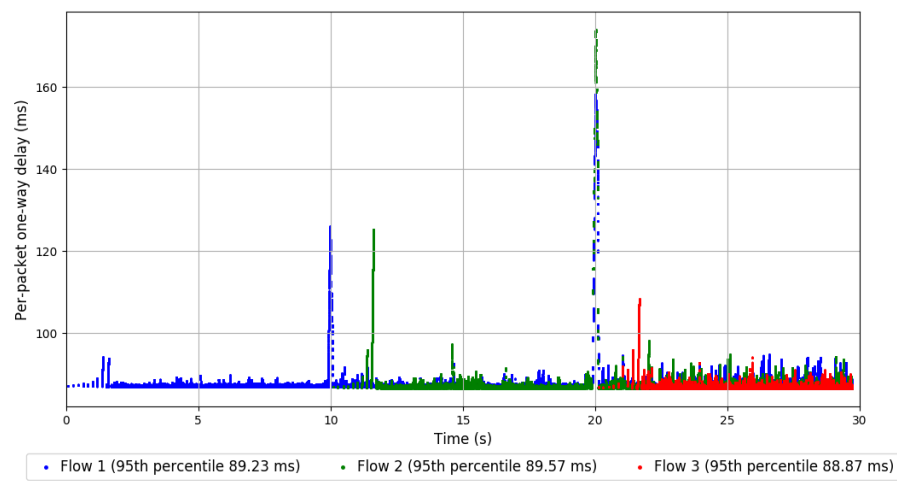
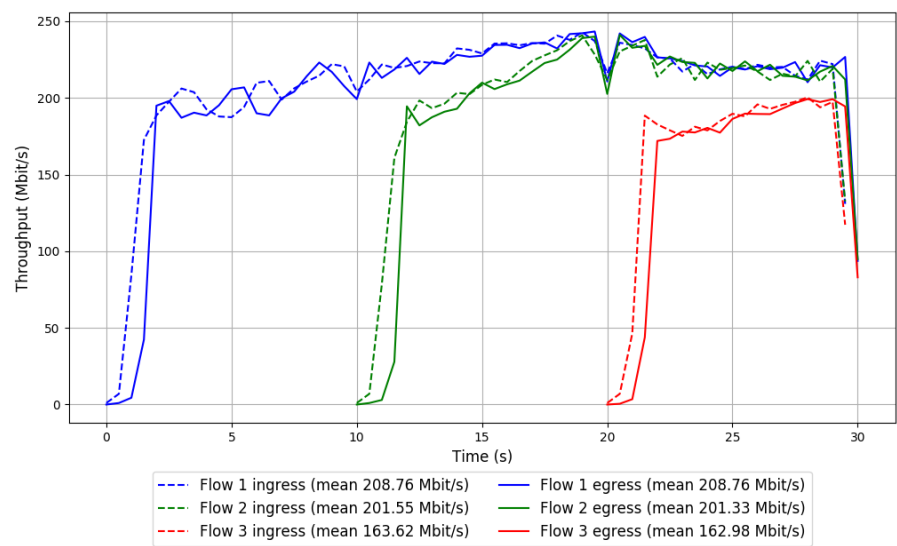


Run 5: Statistics of Indigo

Start at: 2018-11-30 10:37:26
End at: 2018-11-30 10:37:56
Local clock offset: -0.125 ms
Remote clock offset: -0.072 ms

Below is generated by plot.py at 2018-11-30 12:34:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 394.81 Mbit/s
95th percentile per-packet one-way delay: 89.279 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 208.76 Mbit/s
95th percentile per-packet one-way delay: 89.233 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 201.33 Mbit/s
95th percentile per-packet one-way delay: 89.572 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 162.98 Mbit/s
95th percentile per-packet one-way delay: 88.870 ms
Loss rate: 2.15%

Run 5: Report of Indigo — Data Link

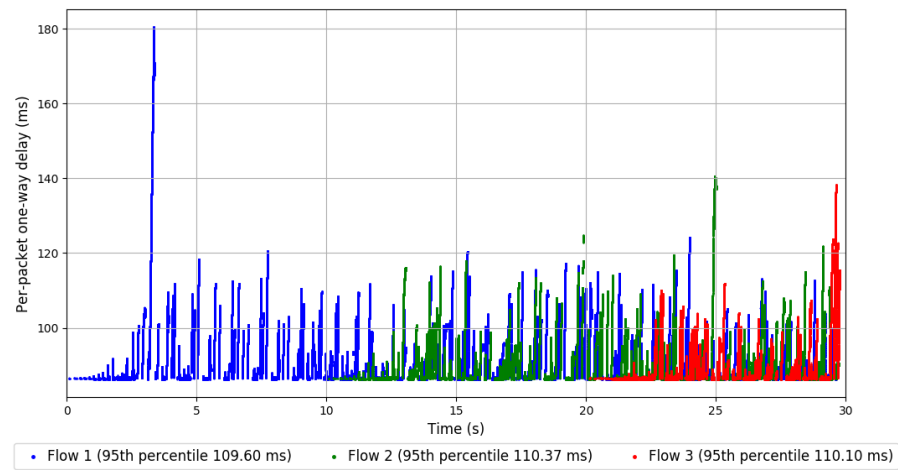
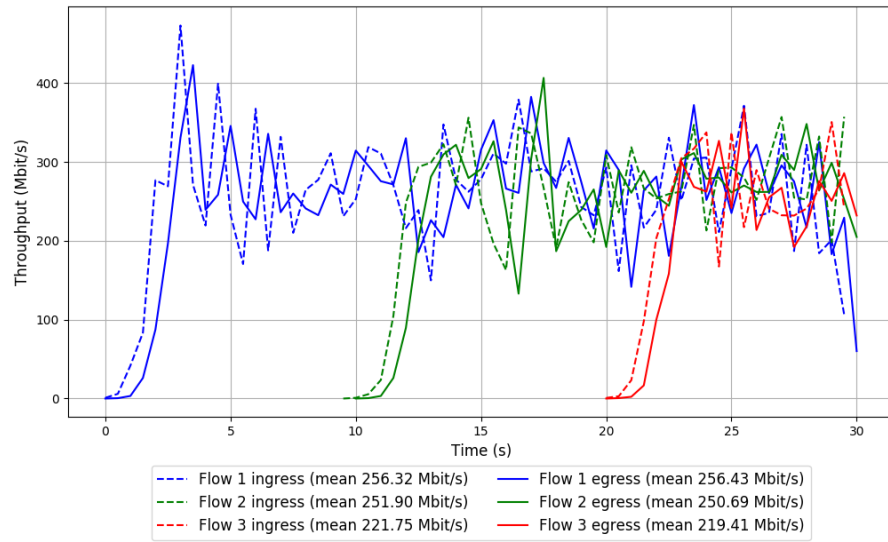


Run 1: Statistics of Indigo-96d2da3

Start at: 2018-11-30 08:22:47
End at: 2018-11-30 08:23:17
Local clock offset: 0.046 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-11-30 12:34:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 492.80 Mbit/s
95th percentile per-packet one-way delay: 109.936 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 256.43 Mbit/s
95th percentile per-packet one-way delay: 109.602 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 250.69 Mbit/s
95th percentile per-packet one-way delay: 110.368 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 219.41 Mbit/s
95th percentile per-packet one-way delay: 110.097 ms
Loss rate: 2.75%

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



Run 2: Statistics of Indigo-96d2da3

Start at: 2018-11-30 08:57:29

End at: 2018-11-30 08:57:59

Local clock offset: -0.338 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2018-11-30 12:34:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 477.66 Mbit/s

95th percentile per-packet one-way delay: 110.858 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 239.46 Mbit/s

95th percentile per-packet one-way delay: 115.143 ms

Loss rate: 1.19%

-- Flow 2:

Average throughput: 254.15 Mbit/s

95th percentile per-packet one-way delay: 110.362 ms

Loss rate: 1.58%

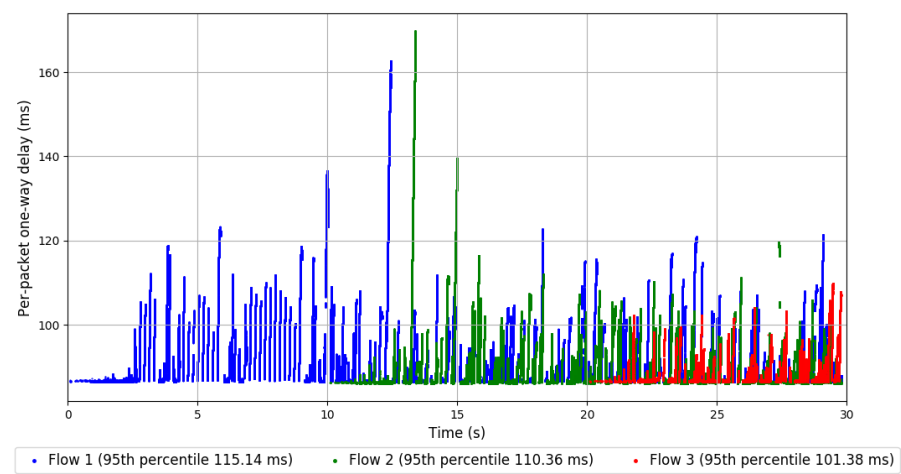
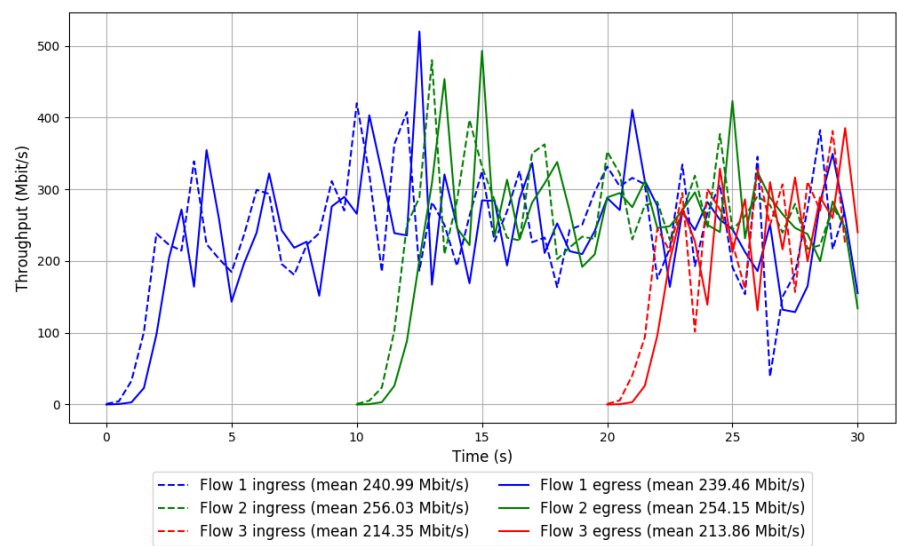
-- Flow 3:

Average throughput: 213.86 Mbit/s

95th percentile per-packet one-way delay: 101.381 ms

Loss rate: 0.98%

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

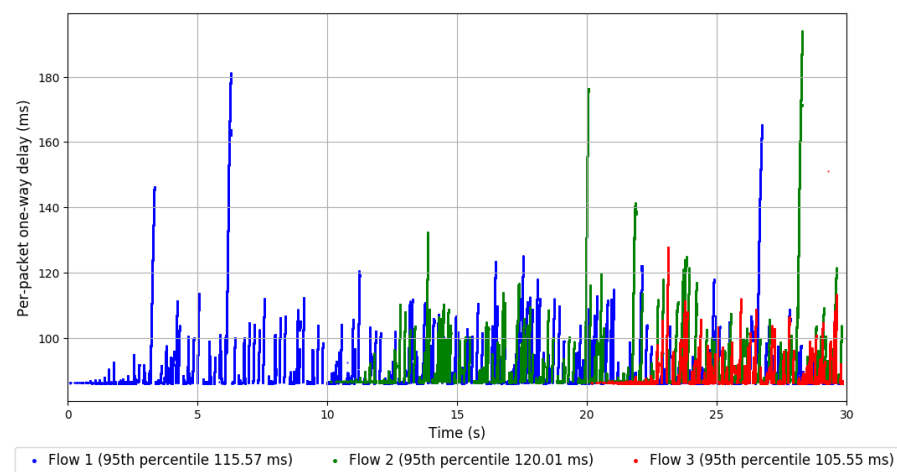
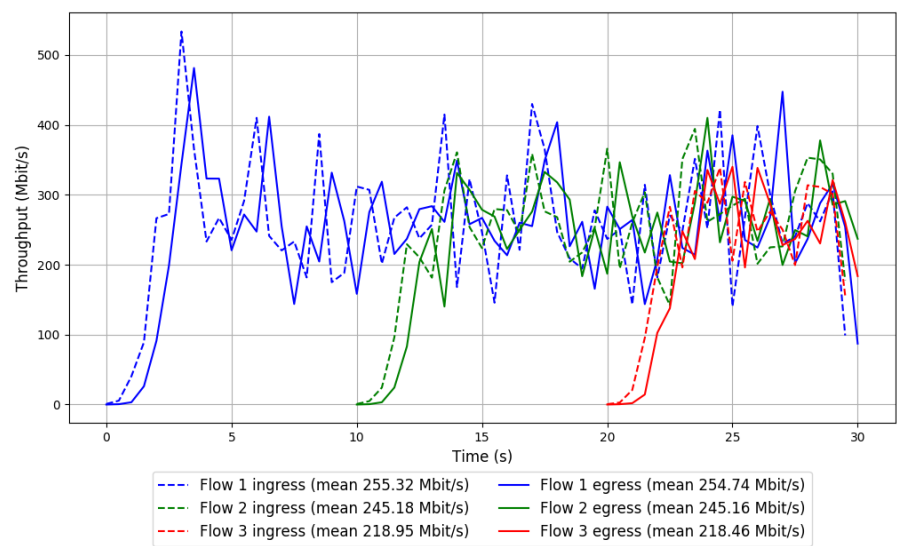


Run 3: Statistics of Indigo-96d2da3

Start at: 2018-11-30 09:32:15
End at: 2018-11-30 09:32:45
Local clock offset: -0.53 ms
Remote clock offset: -0.136 ms

Below is generated by plot.py at 2018-11-30 12:38:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 487.94 Mbit/s
95th percentile per-packet one-way delay: 115.111 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 254.74 Mbit/s
95th percentile per-packet one-way delay: 115.572 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 245.16 Mbit/s
95th percentile per-packet one-way delay: 120.012 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 218.46 Mbit/s
95th percentile per-packet one-way delay: 105.553 ms
Loss rate: 2.00%

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

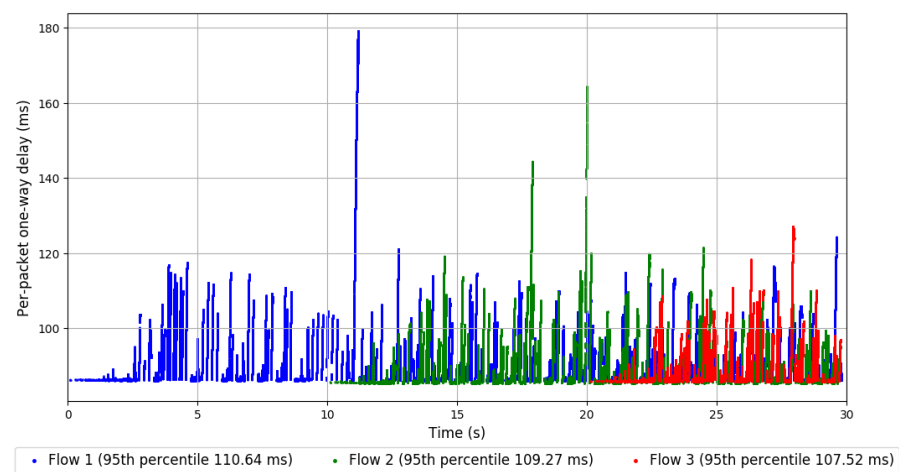
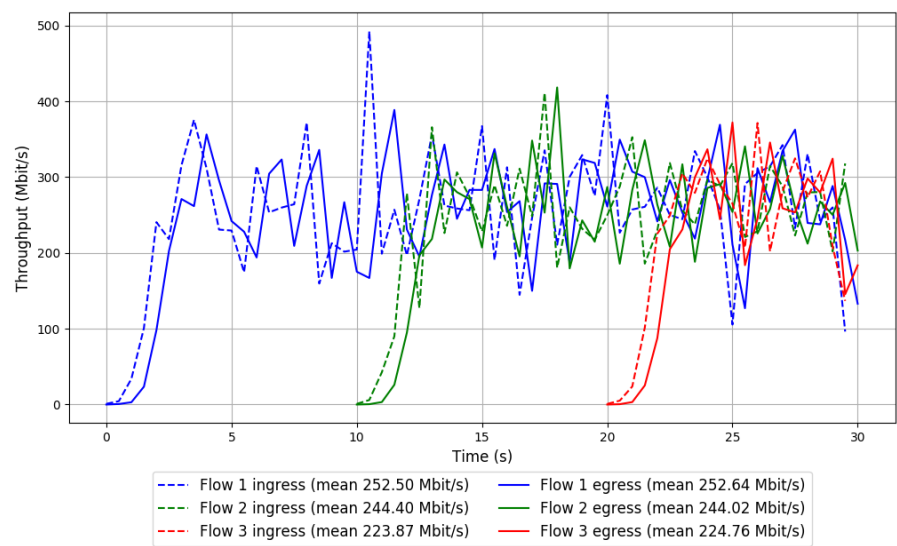


Run 4: Statistics of Indigo-96d2da3

Start at: 2018-11-30 10:06:21
End at: 2018-11-30 10:06:51
Local clock offset: -1.169 ms
Remote clock offset: -0.111 ms

Below is generated by plot.py at 2018-11-30 12:38:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 486.84 Mbit/s
95th percentile per-packet one-way delay: 109.568 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 252.64 Mbit/s
95th percentile per-packet one-way delay: 110.639 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 244.02 Mbit/s
95th percentile per-packet one-way delay: 109.273 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 224.76 Mbit/s
95th percentile per-packet one-way delay: 107.524 ms
Loss rate: 1.35%

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



Run 5: Statistics of Indigo-96d2da3

Start at: 2018-11-30 10:40:44

End at: 2018-11-30 10:41:14

Local clock offset: -0.751 ms

Remote clock offset: -0.1 ms

Below is generated by plot.py at 2018-11-30 12:40:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 499.55 Mbit/s

95th percentile per-packet one-way delay: 111.469 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 263.08 Mbit/s

95th percentile per-packet one-way delay: 111.177 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 239.94 Mbit/s

95th percentile per-packet one-way delay: 106.675 ms

Loss rate: 0.60%

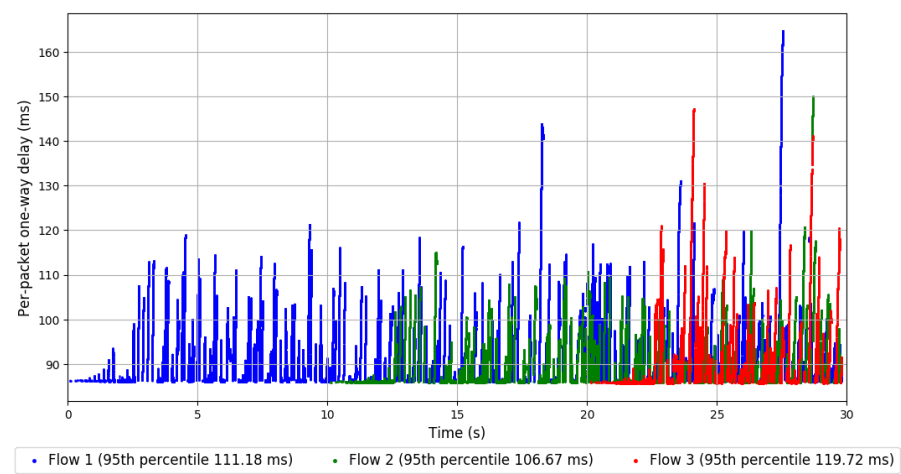
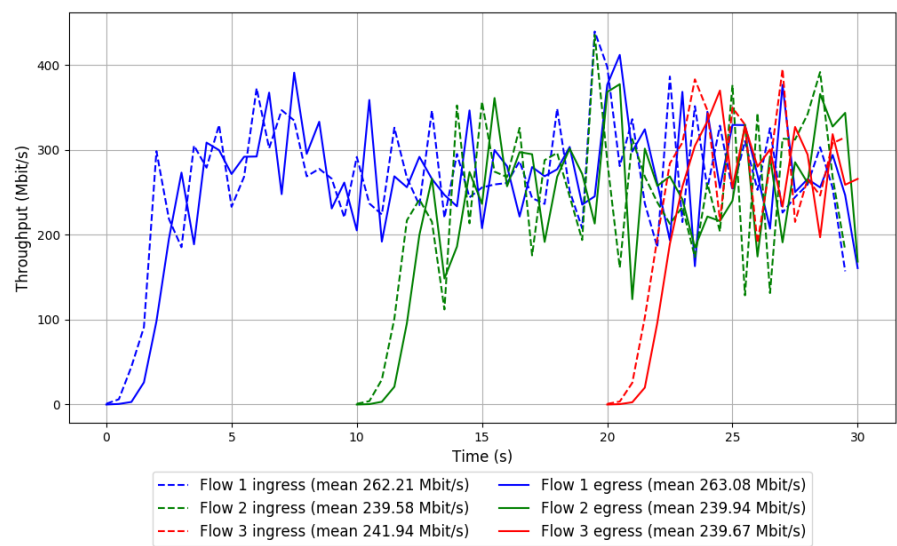
-- Flow 3:

Average throughput: 239.67 Mbit/s

95th percentile per-packet one-way delay: 119.718 ms

Loss rate: 2.78%

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

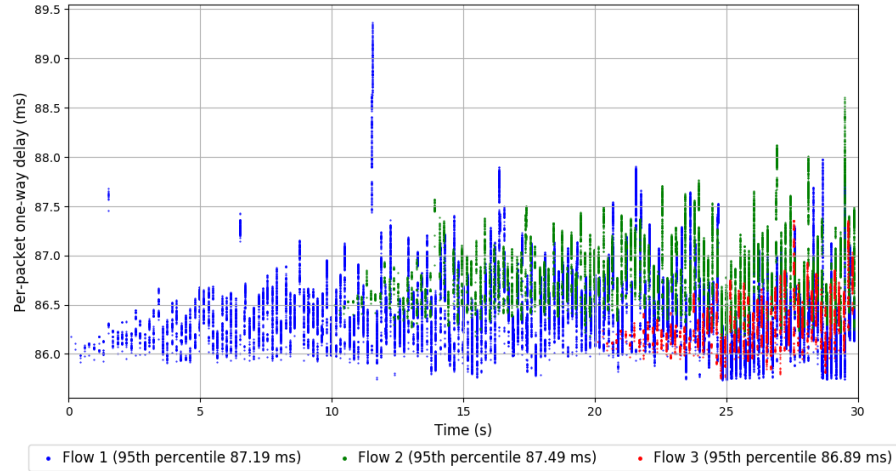
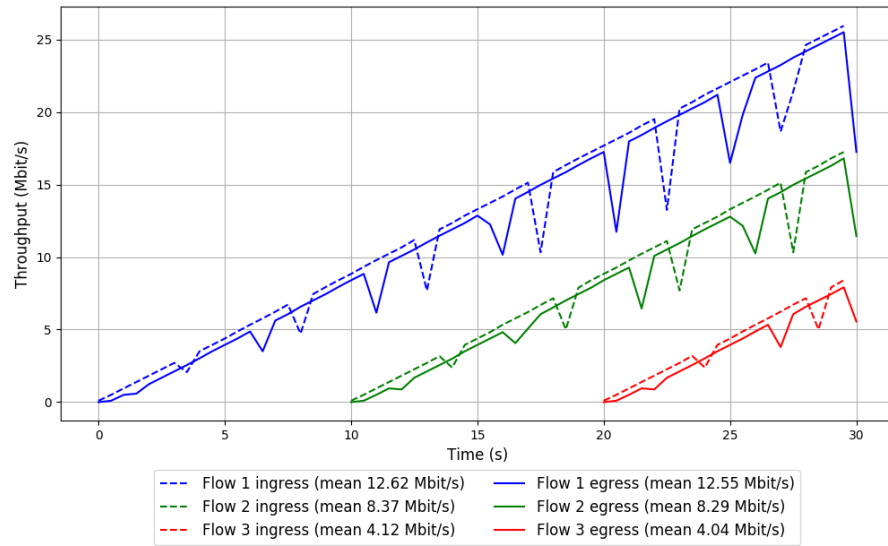


```
Run 1: Statistics of LEDBAT

Start at: 2018-11-30 08:37:41
End at: 2018-11-30 08:38:11
Local clock offset: -0.149 ms
Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2018-11-30 12:40:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.36 Mbit/s
95th percentile per-packet one-way delay: 87.326 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 12.55 Mbit/s
95th percentile per-packet one-way delay: 87.185 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 8.29 Mbit/s
95th percentile per-packet one-way delay: 87.490 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 4.04 Mbit/s
95th percentile per-packet one-way delay: 86.891 ms
Loss rate: 3.51%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-11-30 09:12:22

End at: 2018-11-30 09:12:52

Local clock offset: -0.384 ms

Remote clock offset: -0.1 ms

Below is generated by plot.py at 2018-11-30 12:40:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.22 Mbit/s

95th percentile per-packet one-way delay: 87.559 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 12.43 Mbit/s

95th percentile per-packet one-way delay: 87.623 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 8.29 Mbit/s

95th percentile per-packet one-way delay: 87.306 ms

Loss rate: 1.74%

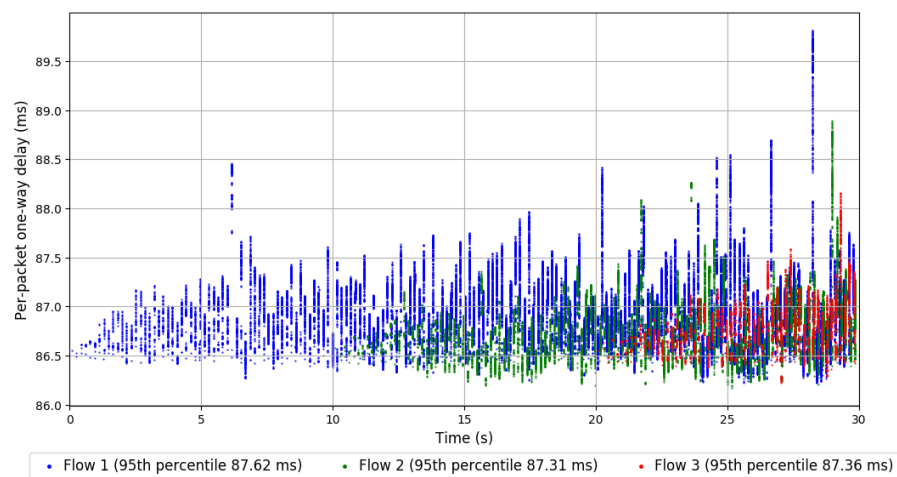
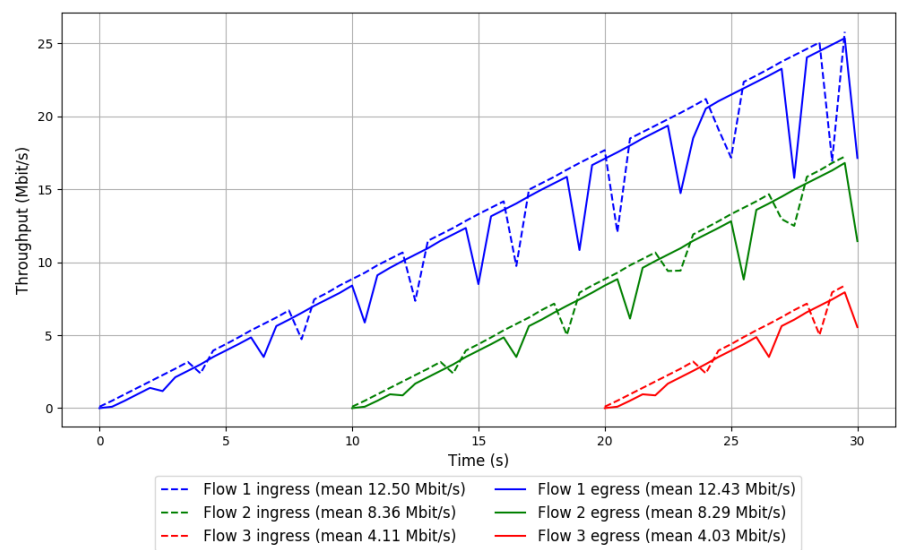
-- Flow 3:

Average throughput: 4.03 Mbit/s

95th percentile per-packet one-way delay: 87.362 ms

Loss rate: 3.51%

Run 2: Report of LEDBAT — Data Link

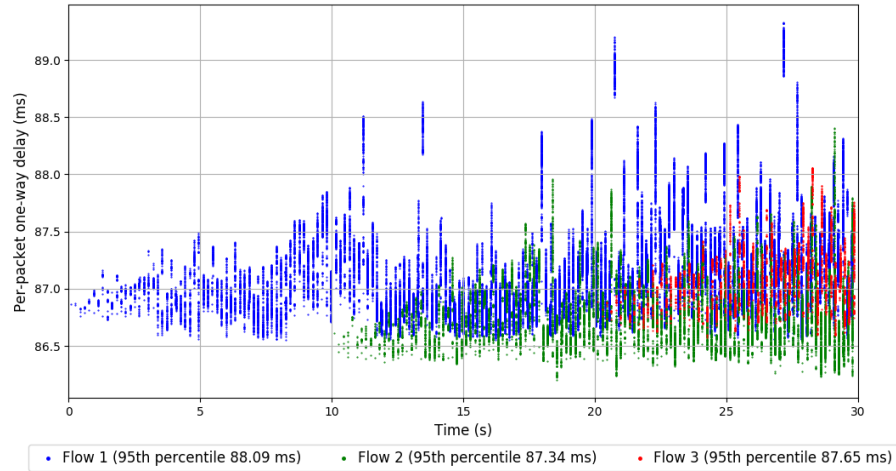
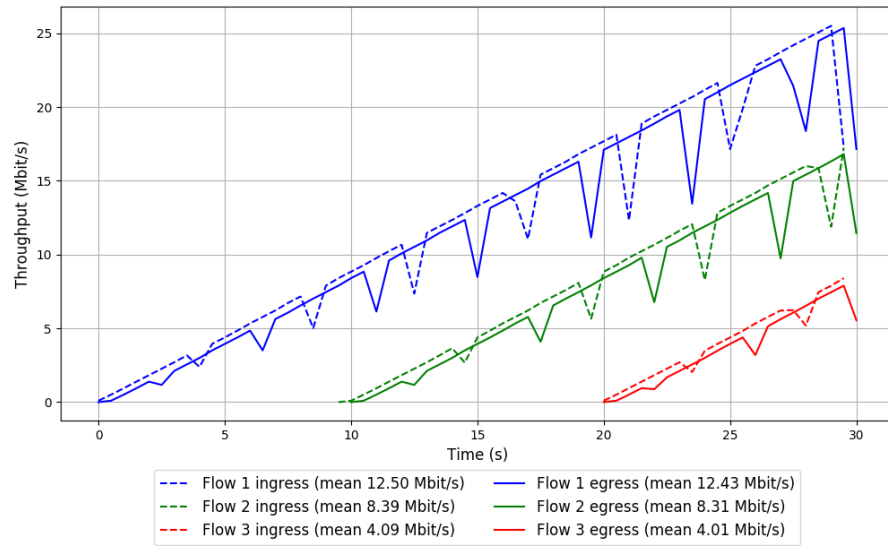


Run 3: Statistics of LEDBAT

Start at: 2018-11-30 09:47:25
End at: 2018-11-30 09:47:55
Local clock offset: -0.201 ms
Remote clock offset: -0.163 ms

Below is generated by plot.py at 2018-11-30 12:40:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.22 Mbit/s
95th percentile per-packet one-way delay: 87.902 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 12.43 Mbit/s
95th percentile per-packet one-way delay: 88.089 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 8.31 Mbit/s
95th percentile per-packet one-way delay: 87.337 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 4.01 Mbit/s
95th percentile per-packet one-way delay: 87.649 ms
Loss rate: 3.52%

Run 3: Report of LEDBAT — Data Link

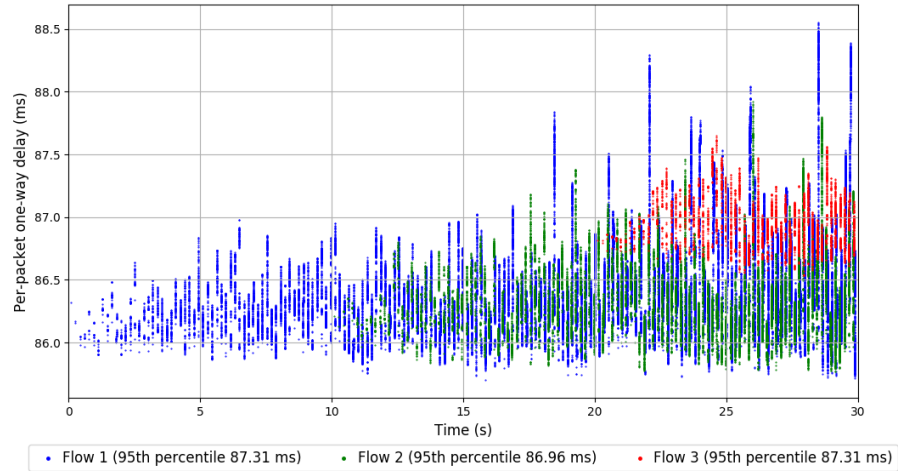
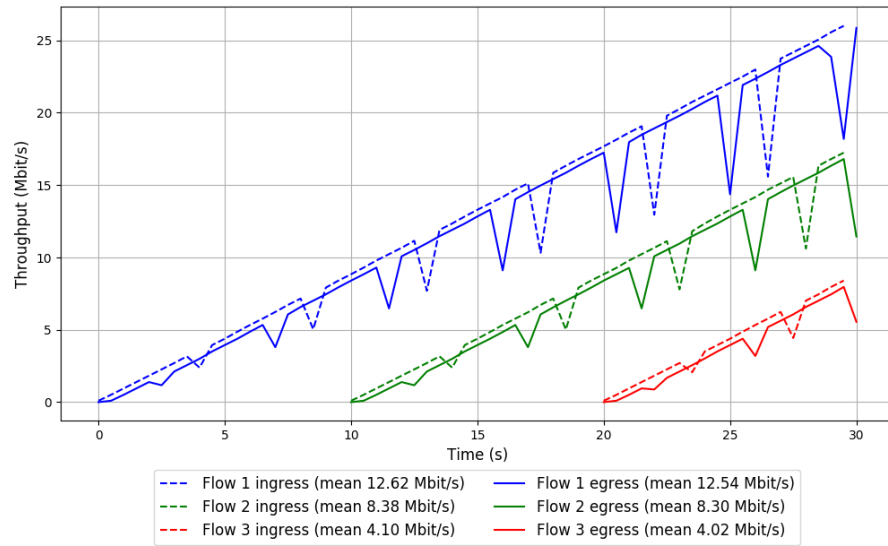


Run 4: Statistics of LEDBAT

Start at: 2018-11-30 10:21:09
End at: 2018-11-30 10:21:39
Local clock offset: -0.858 ms
Remote clock offset: -0.091 ms

Below is generated by plot.py at 2018-11-30 12:40:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.35 Mbit/s
95th percentile per-packet one-way delay: 87.235 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 12.54 Mbit/s
95th percentile per-packet one-way delay: 87.311 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 8.30 Mbit/s
95th percentile per-packet one-way delay: 86.956 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 4.02 Mbit/s
95th percentile per-packet one-way delay: 87.311 ms
Loss rate: 3.51%

Run 4: Report of LEDBAT — Data Link

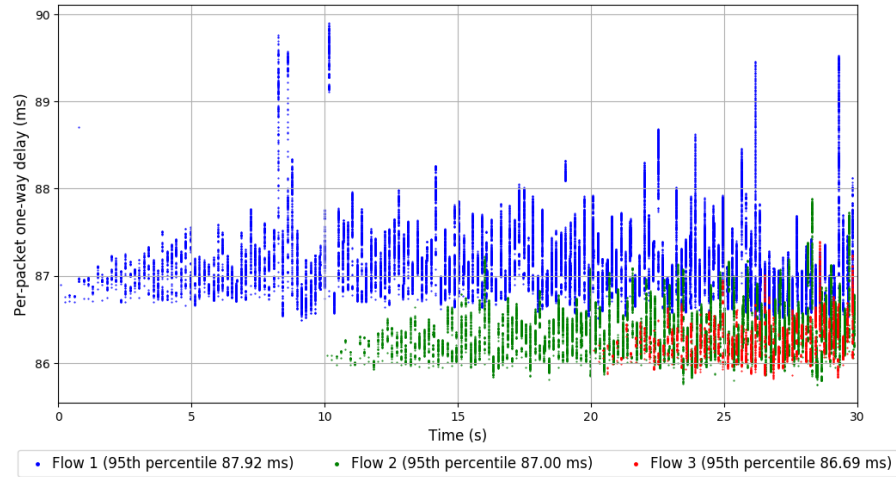
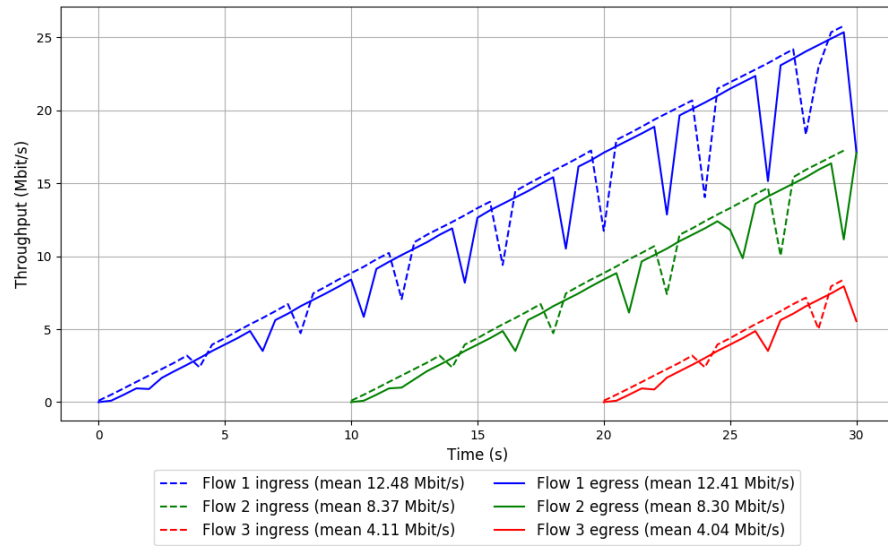


Run 5: Statistics of LEDBAT

Start at: 2018-11-30 10:56:11
End at: 2018-11-30 10:56:41
Local clock offset: 0.11 ms
Remote clock offset: -0.094 ms

Below is generated by plot.py at 2018-11-30 12:40:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.21 Mbit/s
95th percentile per-packet one-way delay: 87.727 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 12.41 Mbit/s
95th percentile per-packet one-way delay: 87.916 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 8.30 Mbit/s
95th percentile per-packet one-way delay: 86.995 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 4.04 Mbit/s
95th percentile per-packet one-way delay: 86.688 ms
Loss rate: 3.51%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Indigo-Muses

Start at: 2018-11-30 08:42:22

End at: 2018-11-30 08:42:52

Local clock offset: 0.083 ms

Remote clock offset: 0.012 ms

Below is generated by plot.py at 2018-11-30 12:52:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 950.98 Mbit/s

95th percentile per-packet one-way delay: 142.453 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 528.83 Mbit/s

95th percentile per-packet one-way delay: 147.606 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 478.88 Mbit/s

95th percentile per-packet one-way delay: 137.059 ms

Loss rate: 0.87%

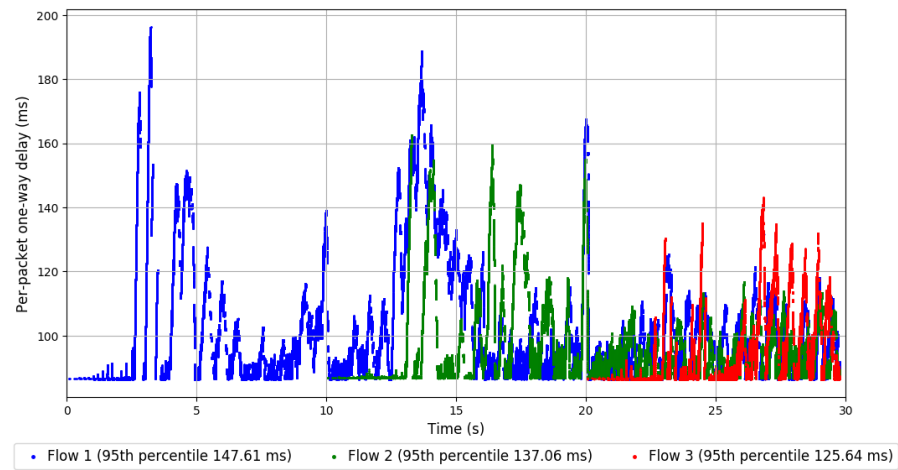
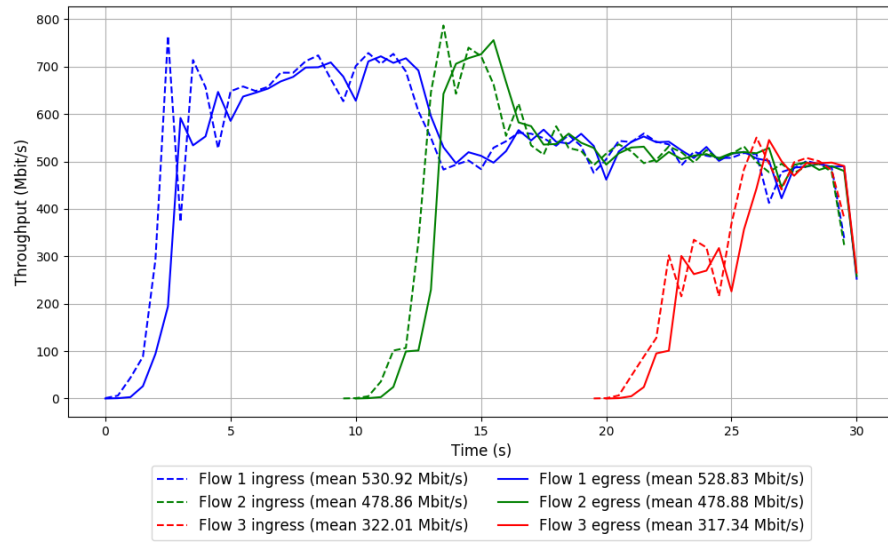
-- Flow 3:

Average throughput: 317.34 Mbit/s

95th percentile per-packet one-way delay: 125.643 ms

Loss rate: 3.18%

Run 1: Report of Indigo-Muses — Data Link

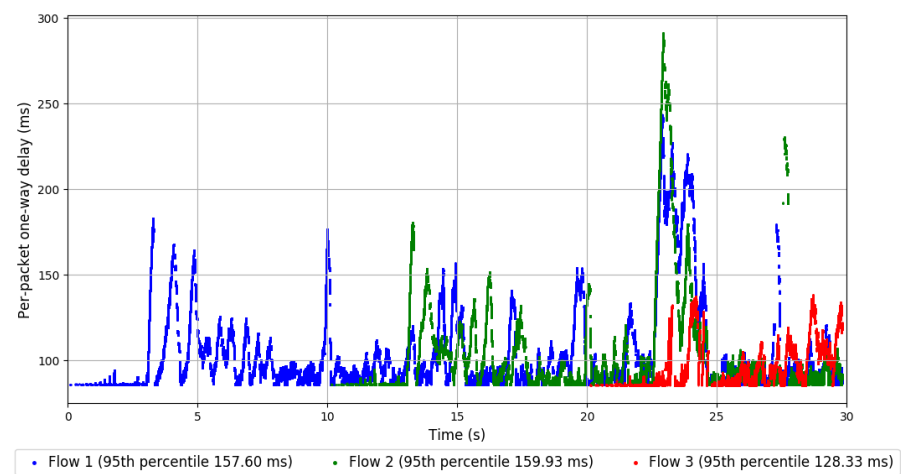
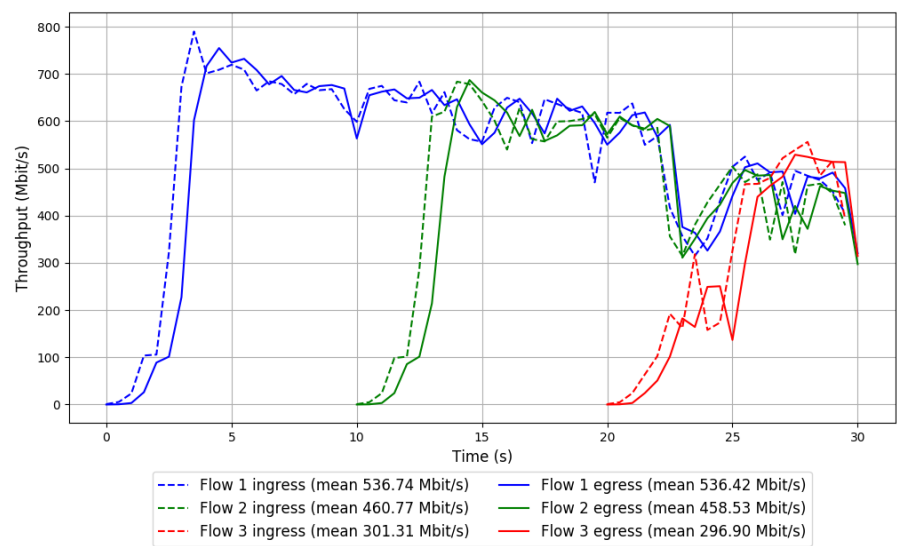


Run 2: Statistics of Indigo-Muses

Start at: 2018-11-30 09:17:00
End at: 2018-11-30 09:17:30
Local clock offset: -0.843 ms
Remote clock offset: -0.113 ms

Below is generated by plot.py at 2018-11-30 12:52:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 936.60 Mbit/s
95th percentile per-packet one-way delay: 154.130 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 536.42 Mbit/s
95th percentile per-packet one-way delay: 157.604 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 458.53 Mbit/s
95th percentile per-packet one-way delay: 159.930 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 296.90 Mbit/s
95th percentile per-packet one-way delay: 128.326 ms
Loss rate: 3.20%

Run 2: Report of Indigo-Muses — Data Link

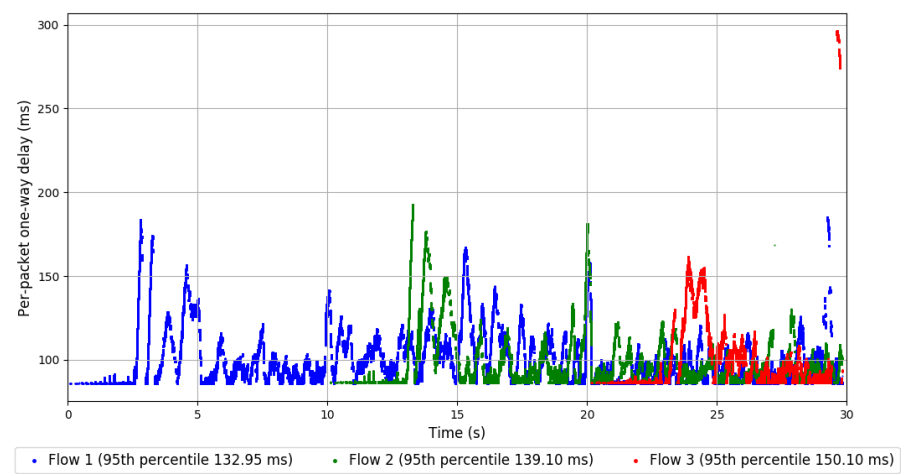
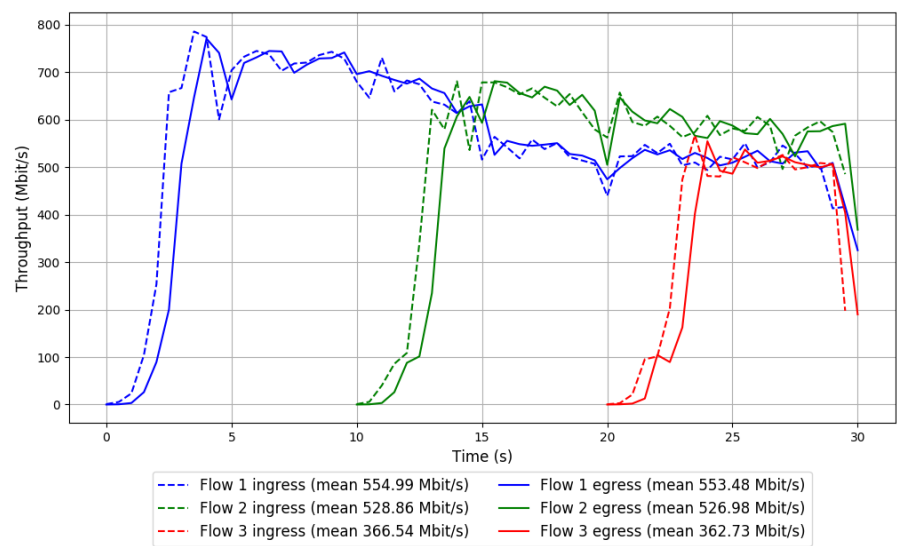


Run 3: Statistics of Indigo-Muses

Start at: 2018-11-30 09:51:57
End at: 2018-11-30 09:52:27
Local clock offset: -0.704 ms
Remote clock offset: -0.171 ms

Below is generated by plot.py at 2018-11-30 12:54:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 1020.55 Mbit/s
95th percentile per-packet one-way delay: 138.830 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 553.48 Mbit/s
95th percentile per-packet one-way delay: 132.954 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 526.98 Mbit/s
95th percentile per-packet one-way delay: 139.101 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 362.73 Mbit/s
95th percentile per-packet one-way delay: 150.097 ms
Loss rate: 2.75%

Run 3: Report of Indigo-Muses — Data Link

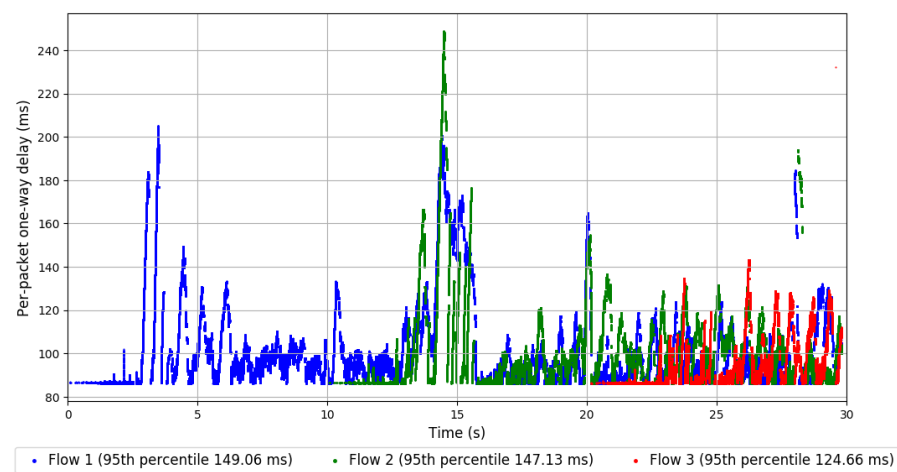
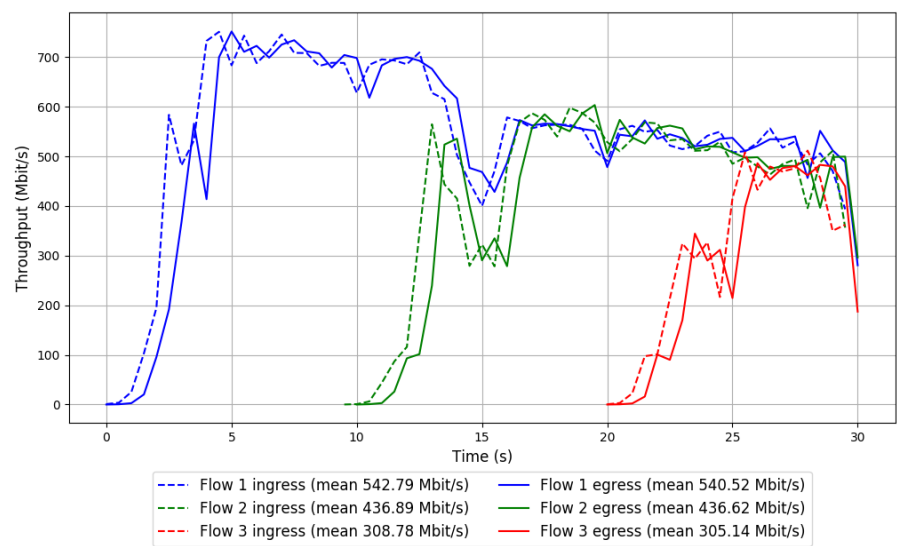


Run 4: Statistics of Indigo-Muses

Start at: 2018-11-30 10:25:41
End at: 2018-11-30 10:26:11
Local clock offset: -0.893 ms
Remote clock offset: -0.046 ms

Below is generated by plot.py at 2018-11-30 12:54:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 929.43 Mbit/s
95th percentile per-packet one-way delay: 144.789 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 540.52 Mbit/s
95th percentile per-packet one-way delay: 149.059 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 436.62 Mbit/s
95th percentile per-packet one-way delay: 147.135 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 305.14 Mbit/s
95th percentile per-packet one-way delay: 124.661 ms
Loss rate: 2.92%

Run 4: Report of Indigo-Muses — Data Link

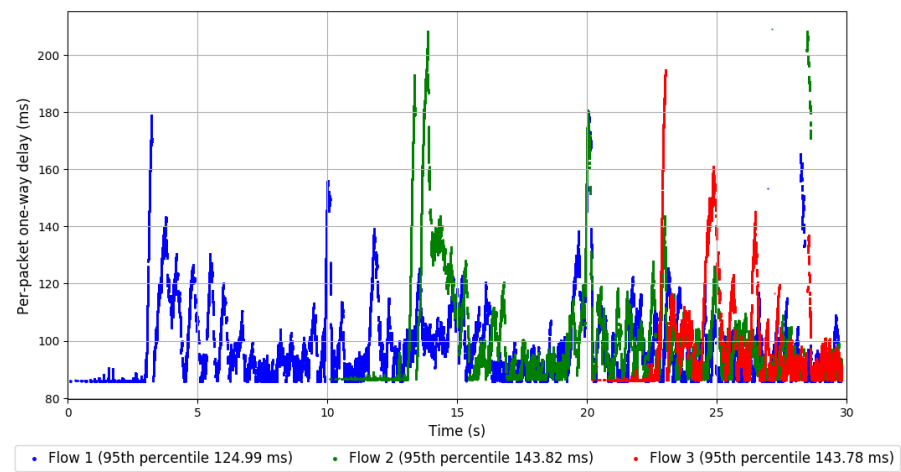
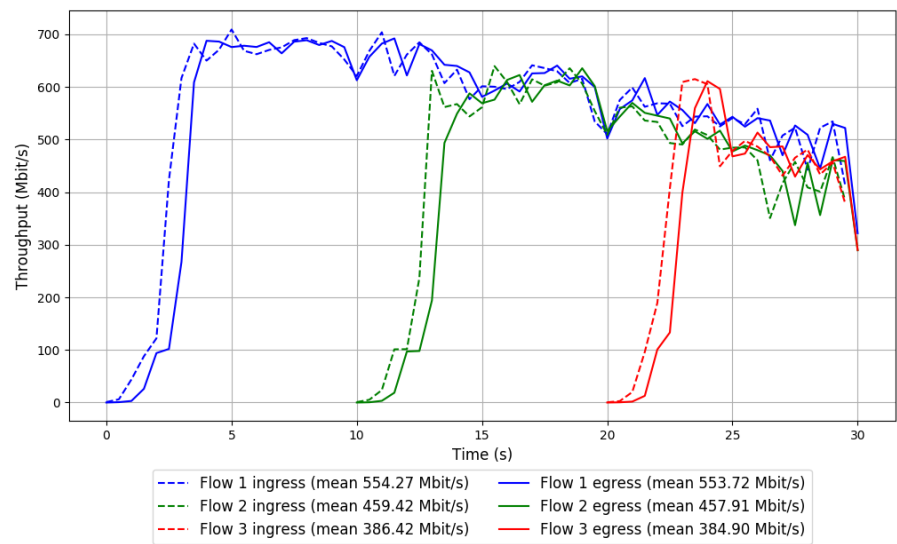


Run 5: Statistics of Indigo-Muses

Start at: 2018-11-30 11:00:46
End at: 2018-11-30 11:01:16
Local clock offset: 0.144 ms
Remote clock offset: -0.089 ms

Below is generated by plot.py at 2018-11-30 12:54:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 981.84 Mbit/s
95th percentile per-packet one-way delay: 134.332 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 553.72 Mbit/s
95th percentile per-packet one-way delay: 124.990 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 457.91 Mbit/s
95th percentile per-packet one-way delay: 143.824 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 384.90 Mbit/s
95th percentile per-packet one-way delay: 143.785 ms
Loss rate: 2.25%

Run 5: Report of Indigo-Muses — Data Link

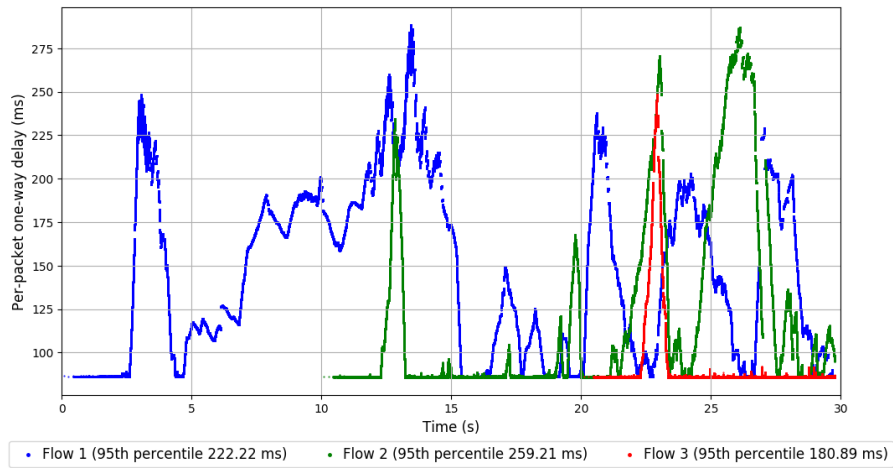
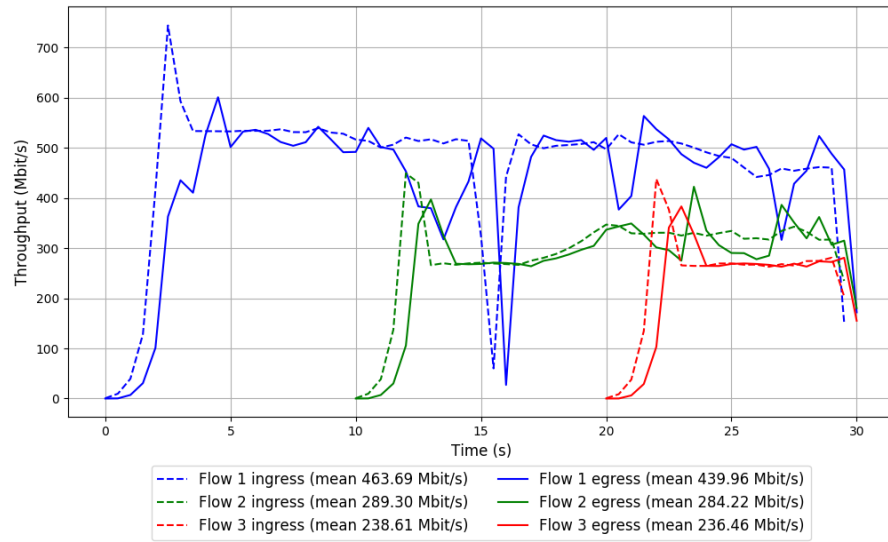


Run 1: Statistics of PCC-Allegro

Start at: 2018-11-30 08:38:58
End at: 2018-11-30 08:39:28
Local clock offset: -0.434 ms
Remote clock offset: -0.005 ms

Below is generated by plot.py at 2018-11-30 13:04:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 705.04 Mbit/s
95th percentile per-packet one-way delay: 224.859 ms
Loss rate: 4.58%
-- Flow 1:
Average throughput: 439.96 Mbit/s
95th percentile per-packet one-way delay: 222.220 ms
Loss rate: 5.72%
-- Flow 2:
Average throughput: 284.22 Mbit/s
95th percentile per-packet one-way delay: 259.213 ms
Loss rate: 2.62%
-- Flow 3:
Average throughput: 236.46 Mbit/s
95th percentile per-packet one-way delay: 180.886 ms
Loss rate: 2.64%

Run 1: Report of PCC-Allegro — Data Link

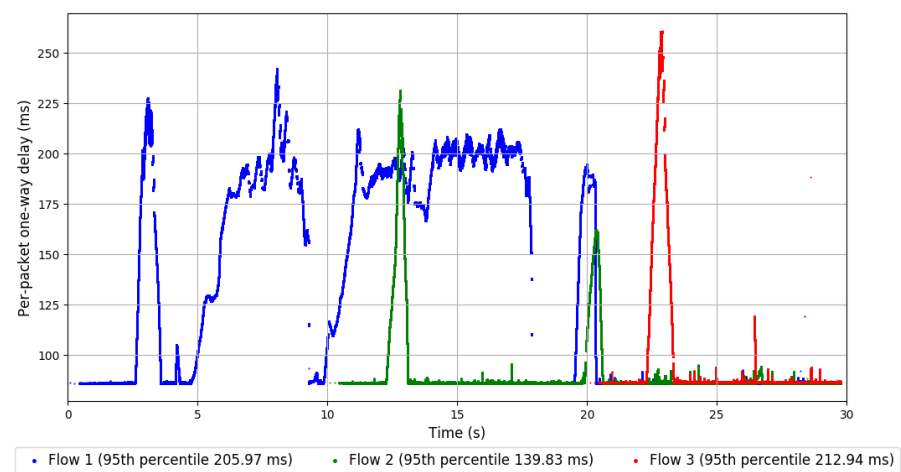
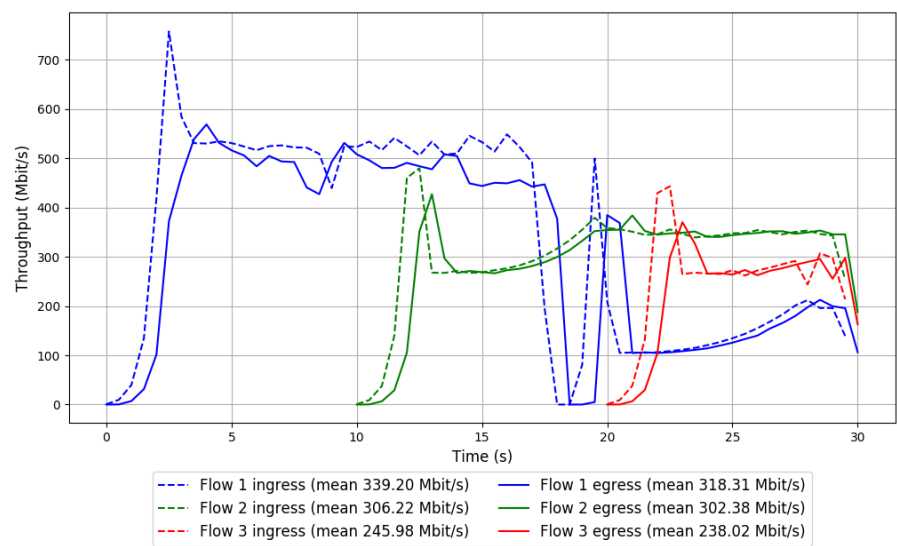


Run 2: Statistics of PCC-Allegro

Start at: 2018-11-30 09:13:39
End at: 2018-11-30 09:14:09
Local clock offset: -0.839 ms
Remote clock offset: -0.118 ms

Below is generated by plot.py at 2018-11-30 13:04:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 596.27 Mbit/s
95th percentile per-packet one-way delay: 203.782 ms
Loss rate: 4.98%
-- Flow 1:
Average throughput: 318.31 Mbit/s
95th percentile per-packet one-way delay: 205.969 ms
Loss rate: 6.70%
-- Flow 2:
Average throughput: 302.38 Mbit/s
95th percentile per-packet one-way delay: 139.833 ms
Loss rate: 2.12%
-- Flow 3:
Average throughput: 238.02 Mbit/s
95th percentile per-packet one-way delay: 212.940 ms
Loss rate: 4.95%

Run 2: Report of PCC-Allegro — Data Link

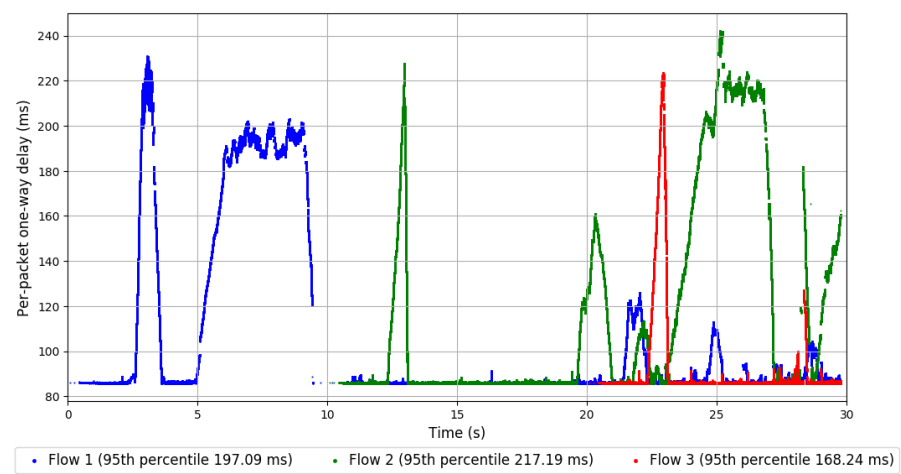
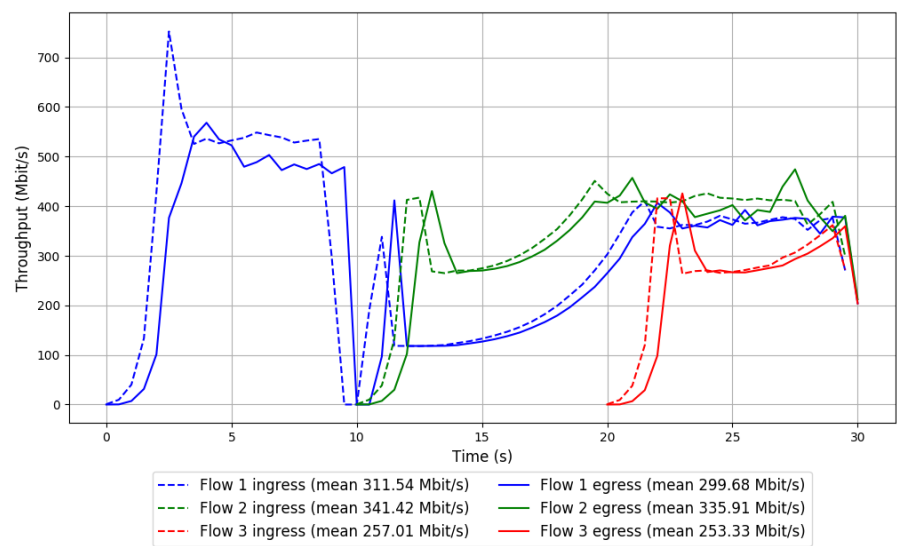


Run 3: Statistics of PCC-Allegro

Start at: 2018-11-30 09:48:42
End at: 2018-11-30 09:49:12
Local clock offset: -1.05 ms
Remote clock offset: -0.192 ms

Below is generated by plot.py at 2018-11-30 13:04:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 604.92 Mbit/s
95th percentile per-packet one-way delay: 210.367 ms
Loss rate: 3.51%
-- Flow 1:
Average throughput: 299.68 Mbit/s
95th percentile per-packet one-way delay: 197.095 ms
Loss rate: 4.37%
-- Flow 2:
Average throughput: 335.91 Mbit/s
95th percentile per-packet one-way delay: 217.189 ms
Loss rate: 2.46%
-- Flow 3:
Average throughput: 253.33 Mbit/s
95th percentile per-packet one-way delay: 168.235 ms
Loss rate: 3.18%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-11-30 10:22:26

End at: 2018-11-30 10:22:56

Local clock offset: -1.114 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at 2018-11-30 13:17:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 611.38 Mbit/s

95th percentile per-packet one-way delay: 229.144 ms

Loss rate: 3.29%

-- Flow 1:

Average throughput: 321.79 Mbit/s

95th percentile per-packet one-way delay: 235.396 ms

Loss rate: 3.64%

-- Flow 2:

Average throughput: 326.90 Mbit/s

95th percentile per-packet one-way delay: 125.361 ms

Loss rate: 1.91%

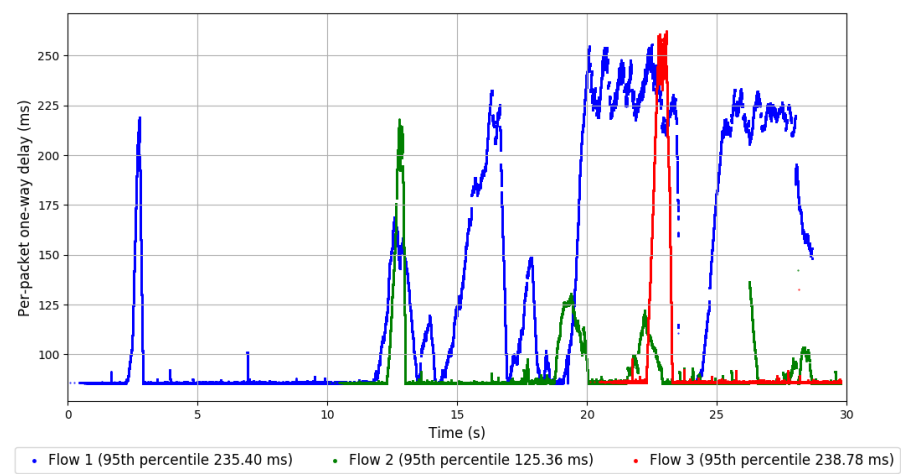
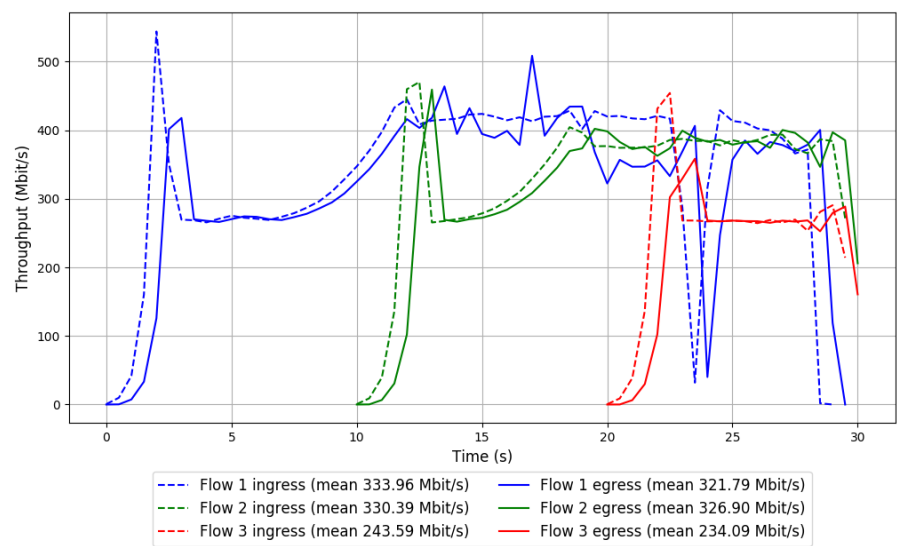
-- Flow 3:

Average throughput: 234.09 Mbit/s

95th percentile per-packet one-way delay: 238.778 ms

Loss rate: 5.60%

Run 4: Report of PCC-Allegro — Data Link

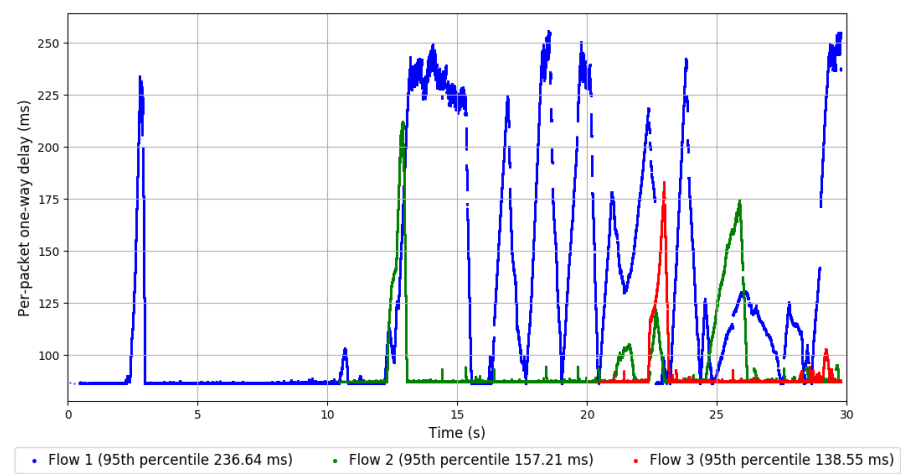
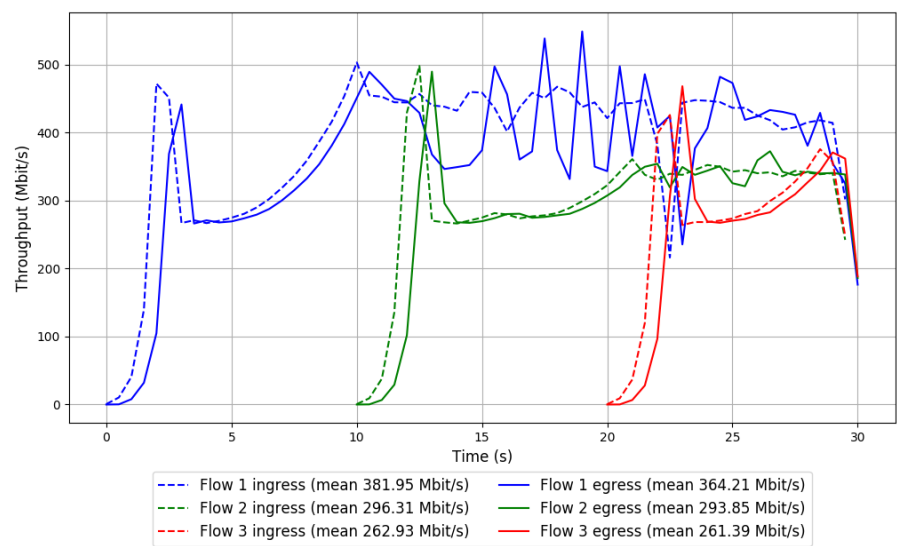


Run 5: Statistics of PCC-Allegro

Start at: 2018-11-30 10:57:28
End at: 2018-11-30 10:57:58
Local clock offset: 0.462 ms
Remote clock offset: -0.149 ms

Below is generated by plot.py at 2018-11-30 13:18:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 644.01 Mbit/s
95th percentile per-packet one-way delay: 229.543 ms
Loss rate: 3.79%
-- Flow 1:
Average throughput: 364.21 Mbit/s
95th percentile per-packet one-way delay: 236.636 ms
Loss rate: 5.20%
-- Flow 2:
Average throughput: 293.85 Mbit/s
95th percentile per-packet one-way delay: 157.210 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 261.39 Mbit/s
95th percentile per-packet one-way delay: 138.551 ms
Loss rate: 2.34%

Run 5: Report of PCC-Allegro — Data Link

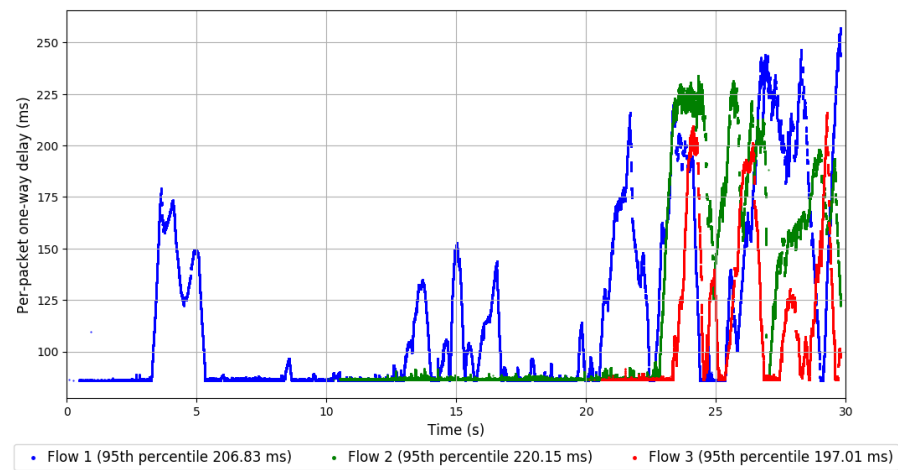
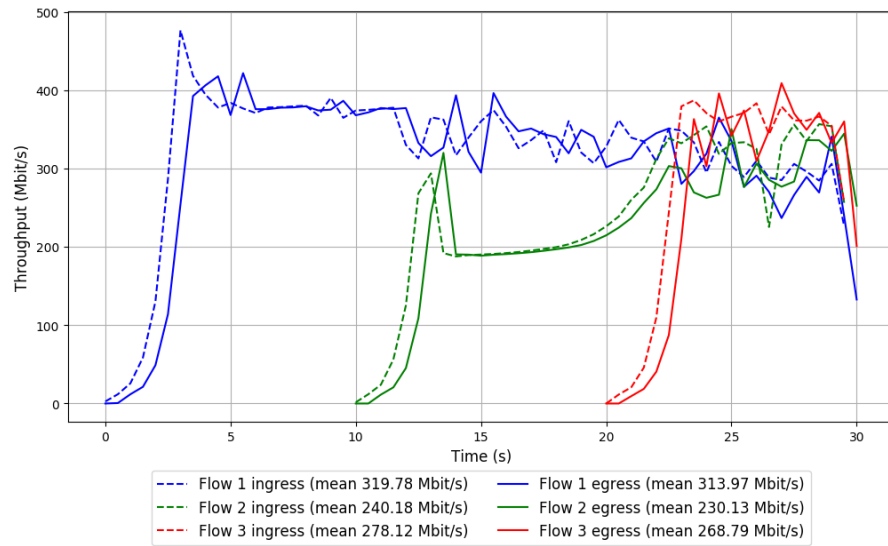


Run 1: Statistics of PCC-Expr

Start at: 2018-11-30 08:24:29
End at: 2018-11-30 08:24:59
Local clock offset: 0.179 ms
Remote clock offset: -0.011 ms

Below is generated by plot.py at 2018-11-30 13:18:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 553.97 Mbit/s
95th percentile per-packet one-way delay: 211.884 ms
Loss rate: 3.55%
-- Flow 1:
Average throughput: 313.97 Mbit/s
95th percentile per-packet one-way delay: 206.830 ms
Loss rate: 2.39%
-- Flow 2:
Average throughput: 230.13 Mbit/s
95th percentile per-packet one-way delay: 220.147 ms
Loss rate: 5.02%
-- Flow 3:
Average throughput: 268.79 Mbit/s
95th percentile per-packet one-way delay: 197.010 ms
Loss rate: 5.06%

Run 1: Report of PCC-Expr — Data Link

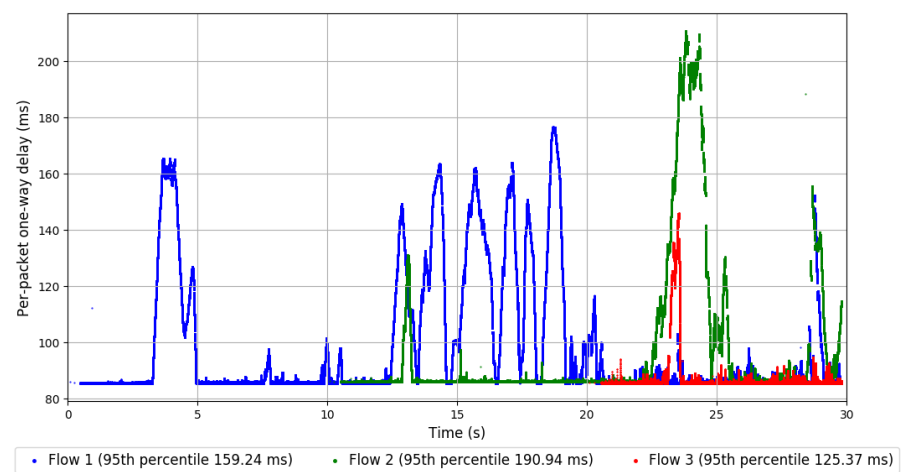
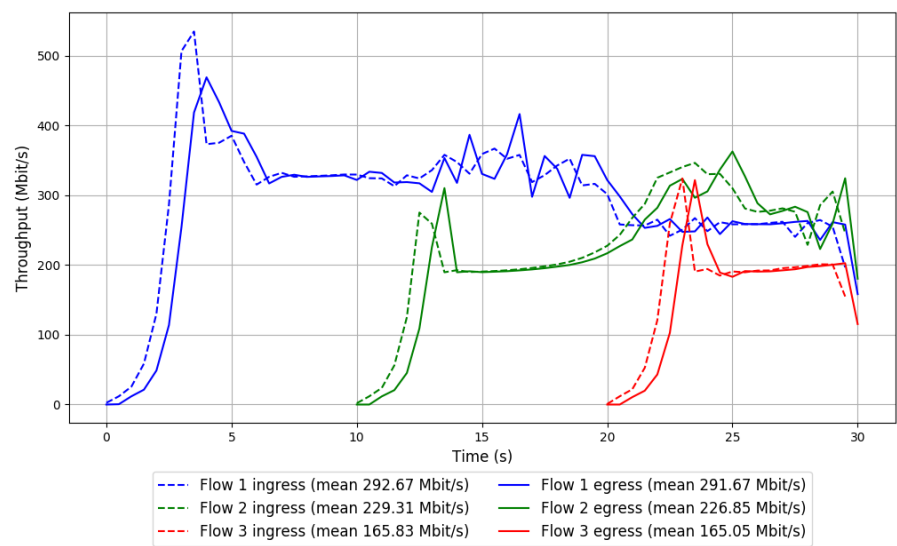


Run 2: Statistics of PCC-Expr

Start at: 2018-11-30 08:59:11
End at: 2018-11-30 08:59:41
Local clock offset: -0.574 ms
Remote clock offset: -0.048 ms

Below is generated by plot.py at 2018-11-30 13:18:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 496.00 Mbit/s
95th percentile per-packet one-way delay: 160.048 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 291.67 Mbit/s
95th percentile per-packet one-way delay: 159.240 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 226.85 Mbit/s
95th percentile per-packet one-way delay: 190.939 ms
Loss rate: 1.93%
-- Flow 3:
Average throughput: 165.05 Mbit/s
95th percentile per-packet one-way delay: 125.371 ms
Loss rate: 2.22%

Run 2: Report of PCC-Expr — Data Link

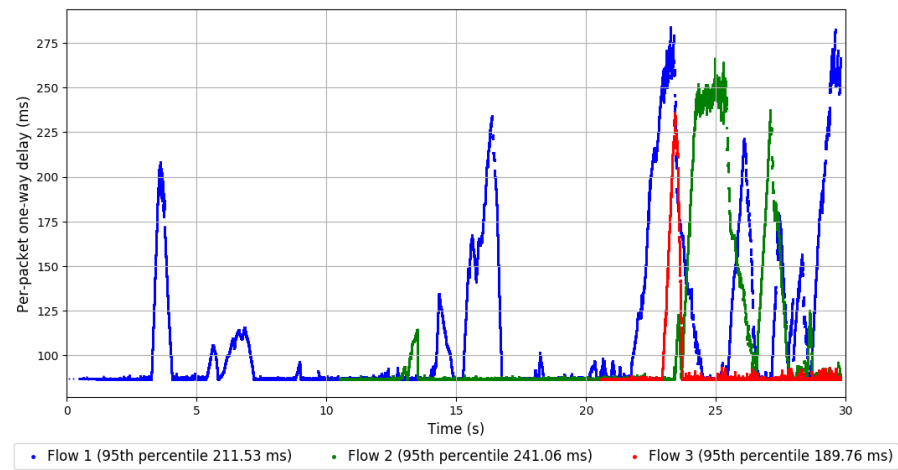
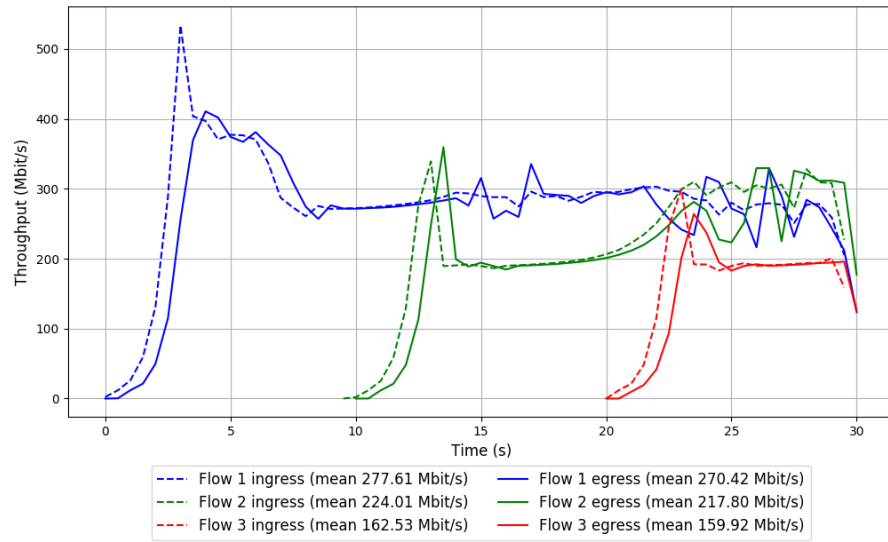


Run 3: Statistics of PCC-Expr

Start at: 2018-11-30 09:33:58
End at: 2018-11-30 09:34:28
Local clock offset: -0.297 ms
Remote clock offset: -0.157 ms

Below is generated by plot.py at 2018-11-30 13:18:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 466.99 Mbit/s
95th percentile per-packet one-way delay: 218.385 ms
Loss rate: 3.32%
-- Flow 1:
Average throughput: 270.42 Mbit/s
95th percentile per-packet one-way delay: 211.535 ms
Loss rate: 3.16%
-- Flow 2:
Average throughput: 217.80 Mbit/s
95th percentile per-packet one-way delay: 241.056 ms
Loss rate: 3.62%
-- Flow 3:
Average throughput: 159.92 Mbit/s
95th percentile per-packet one-way delay: 189.757 ms
Loss rate: 3.31%

Run 3: Report of PCC-Expr — Data Link

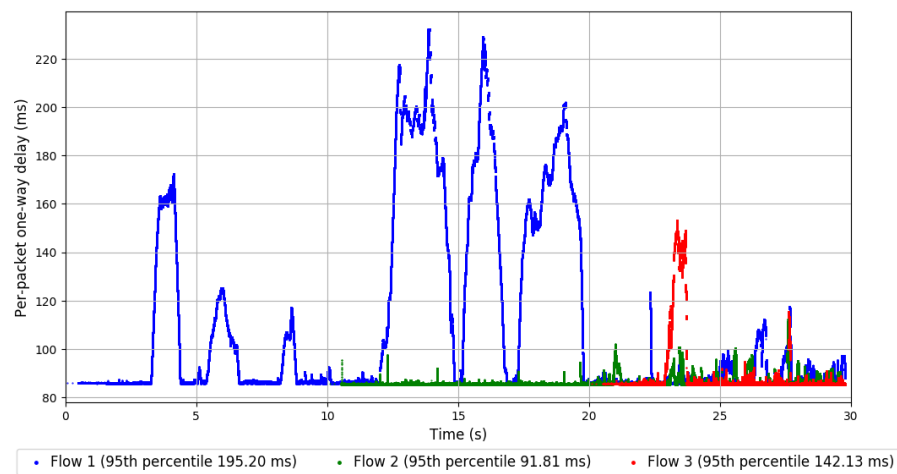
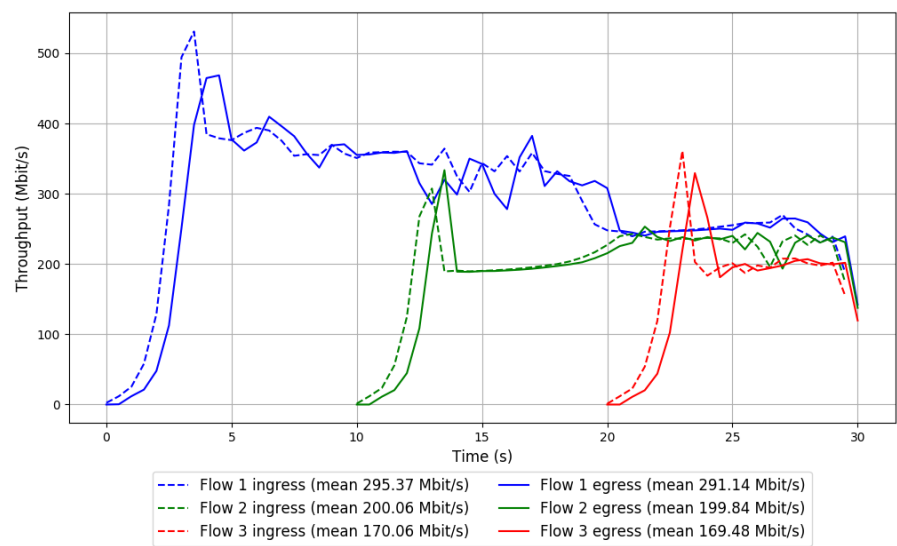


Run 4: Statistics of PCC-Expr

Start at: 2018-11-30 10:08:04
End at: 2018-11-30 10:08:34
Local clock offset: -1.107 ms
Remote clock offset: -0.066 ms

Below is generated by plot.py at 2018-11-30 13:21:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 478.96 Mbit/s
95th percentile per-packet one-way delay: 189.043 ms
Loss rate: 1.73%
-- Flow 1:
Average throughput: 291.14 Mbit/s
95th percentile per-packet one-way delay: 195.196 ms
Loss rate: 2.00%
-- Flow 2:
Average throughput: 199.84 Mbit/s
95th percentile per-packet one-way delay: 91.814 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 169.48 Mbit/s
95th percentile per-packet one-way delay: 142.128 ms
Loss rate: 2.08%

Run 4: Report of PCC-Expr — Data Link

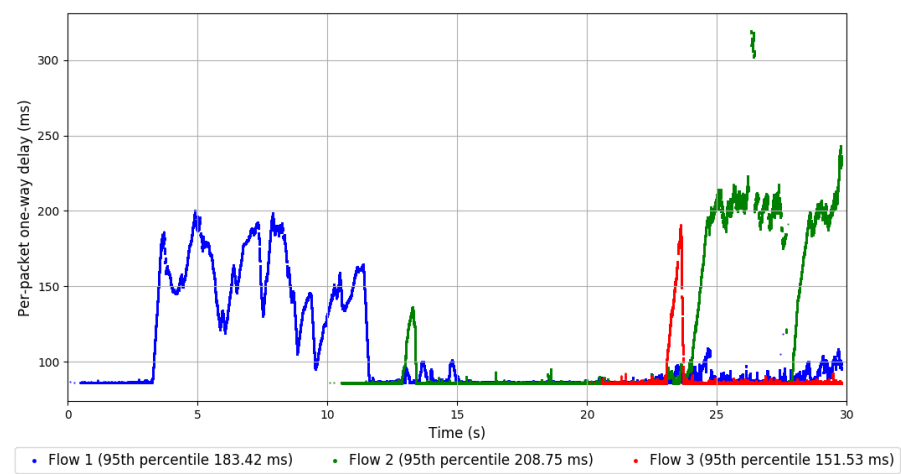
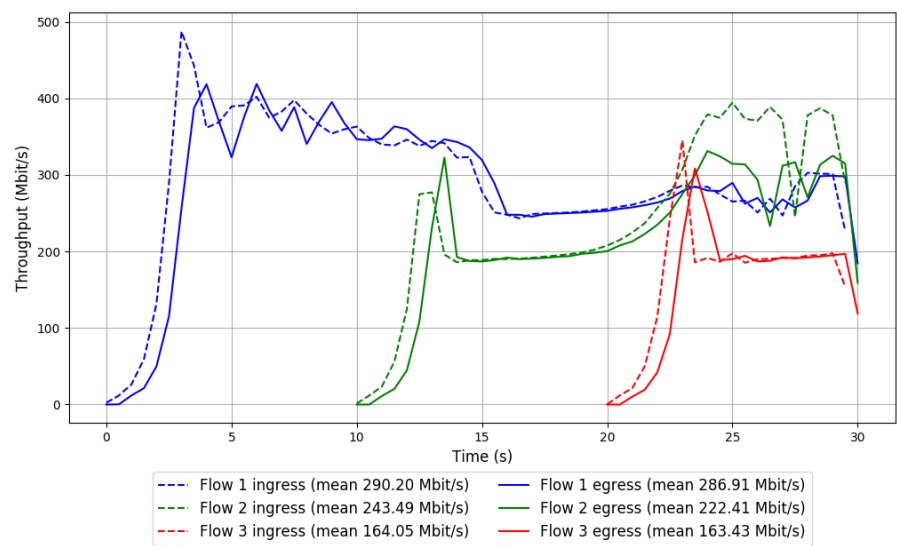


Run 5: Statistics of PCC-Expr

Start at: 2018-11-30 10:42:34
End at: 2018-11-30 10:43:04
Local clock offset: -0.481 ms
Remote clock offset: -0.085 ms

Below is generated by plot.py at 2018-11-30 13:24:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 487.77 Mbit/s
95th percentile per-packet one-way delay: 200.117 ms
Loss rate: 4.23%
-- Flow 1:
Average throughput: 286.91 Mbit/s
95th percentile per-packet one-way delay: 183.422 ms
Loss rate: 1.71%
-- Flow 2:
Average throughput: 222.41 Mbit/s
95th percentile per-packet one-way delay: 208.751 ms
Loss rate: 9.46%
-- Flow 3:
Average throughput: 163.43 Mbit/s
95th percentile per-packet one-way delay: 151.533 ms
Loss rate: 2.14%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-11-30 08:36:20

End at: 2018-11-30 08:36:50

Local clock offset: 0.026 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2018-11-30 13:24:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.11 Mbit/s

95th percentile per-packet one-way delay: 86.619 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 49.70 Mbit/s

95th percentile per-packet one-way delay: 86.658 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 46.57 Mbit/s

95th percentile per-packet one-way delay: 86.194 ms

Loss rate: 1.47%

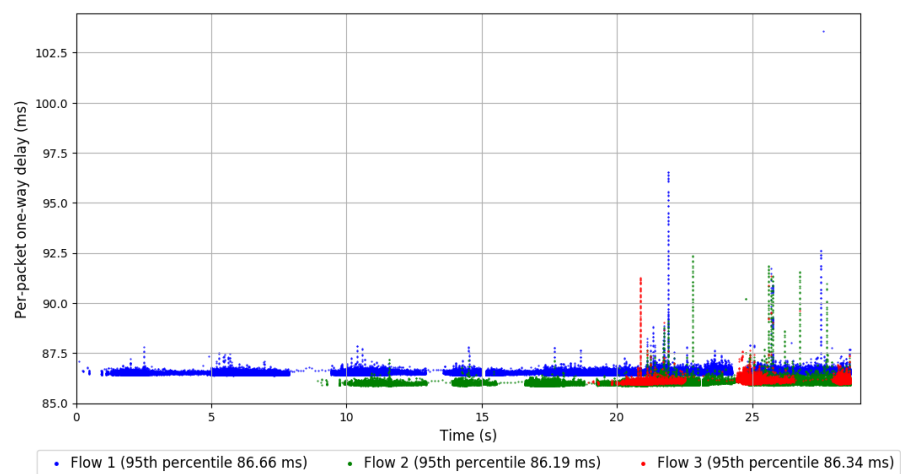
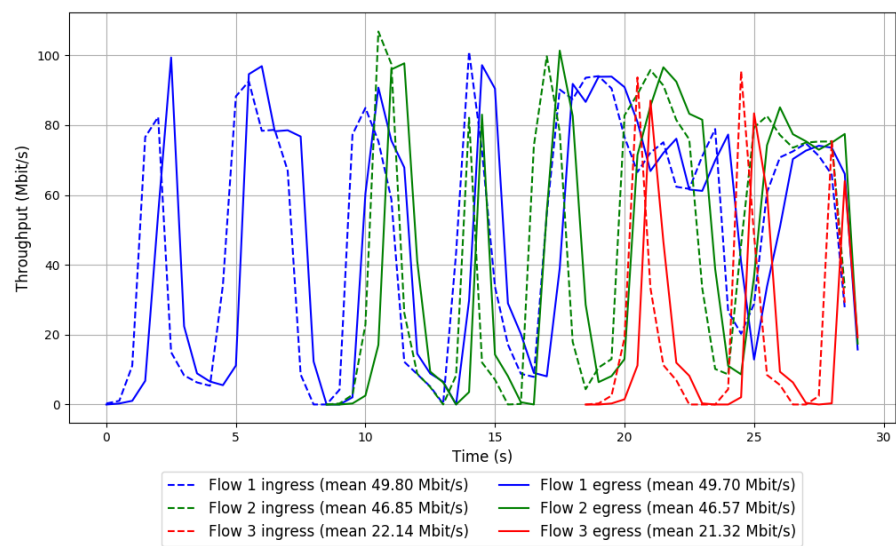
-- Flow 3:

Average throughput: 21.32 Mbit/s

95th percentile per-packet one-way delay: 86.336 ms

Loss rate: 5.38%

Run 1: Report of QUIC Cubic — Data Link

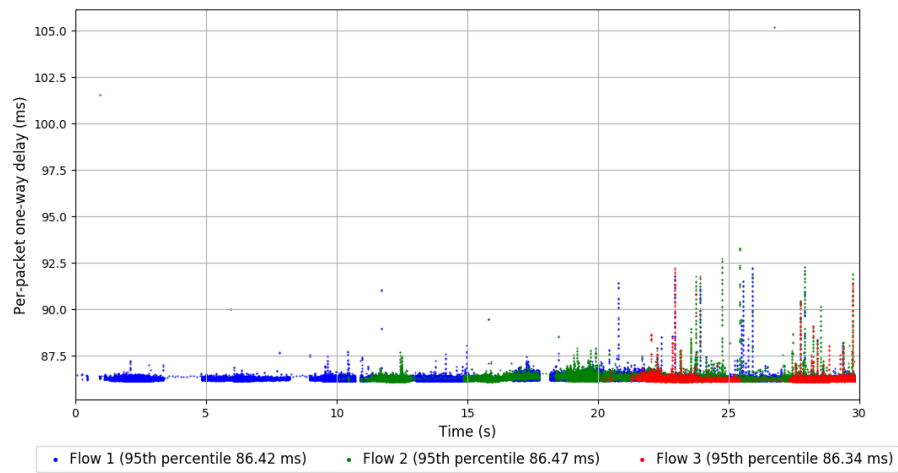
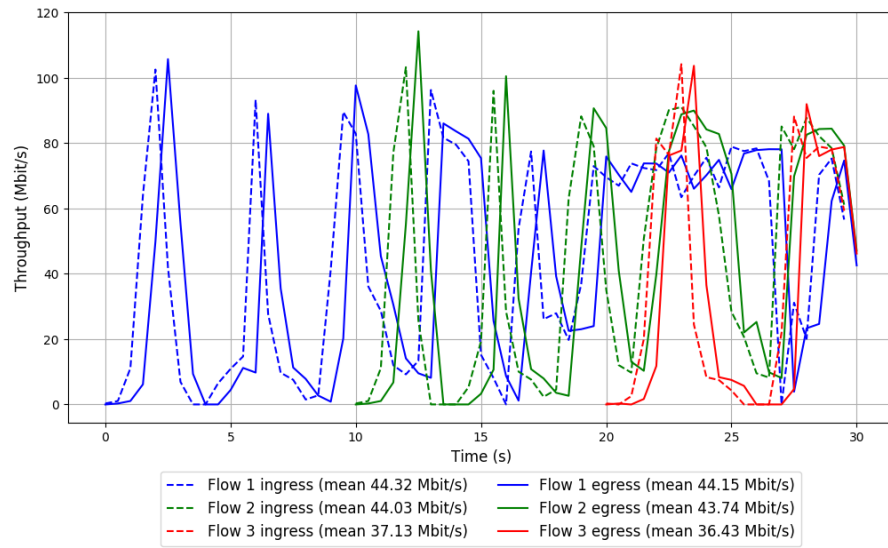


Run 2: Statistics of QUIC Cubic

Start at: 2018-11-30 09:11:01
End at: 2018-11-30 09:11:31
Local clock offset: -0.381 ms
Remote clock offset: -0.096 ms

Below is generated by plot.py at 2018-11-30 13:24:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.03 Mbit/s
95th percentile per-packet one-way delay: 86.430 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 44.15 Mbit/s
95th percentile per-packet one-way delay: 86.417 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 43.74 Mbit/s
95th percentile per-packet one-way delay: 86.474 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 36.43 Mbit/s
95th percentile per-packet one-way delay: 86.342 ms
Loss rate: 3.60%

Run 2: Report of QUIC Cubic — Data Link

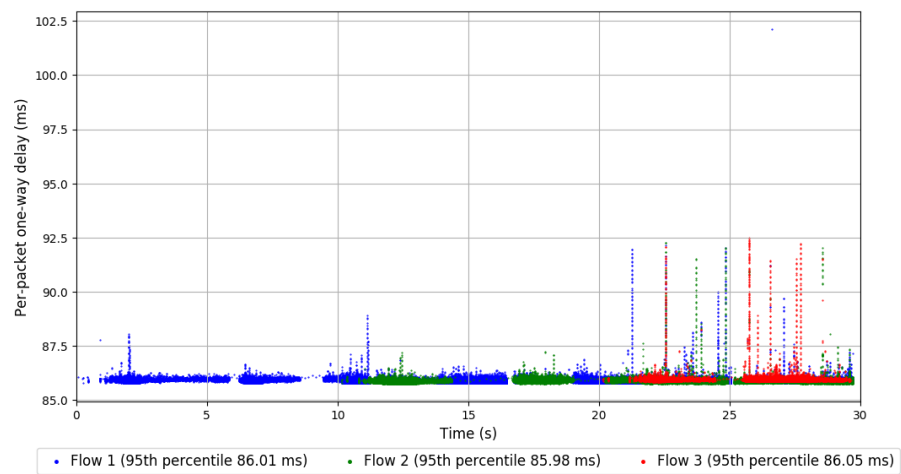
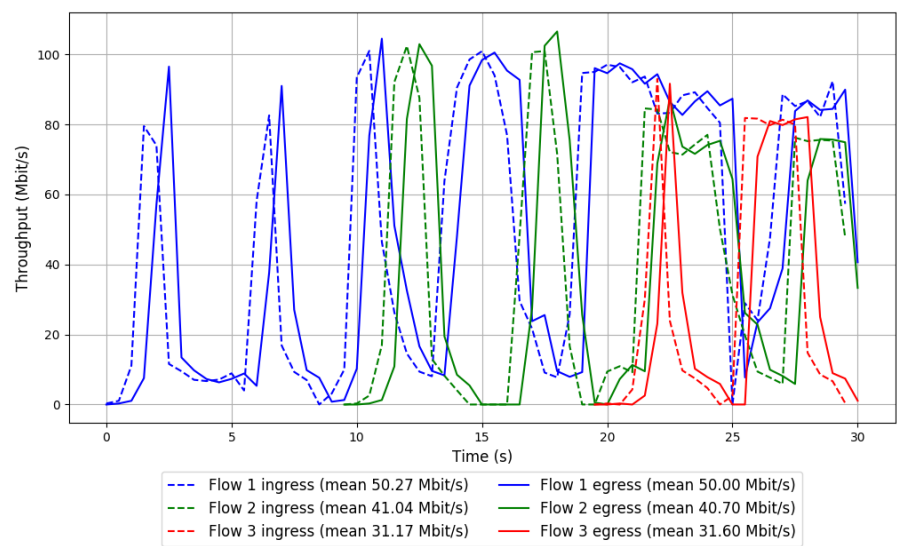


Run 3: Statistics of QUIC Cubic

Start at: 2018-11-30 09:46:04
End at: 2018-11-30 09:46:34
Local clock offset: -1.021 ms
Remote clock offset: -0.207 ms

Below is generated by plot.py at 2018-11-30 13:24:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.40 Mbit/s
95th percentile per-packet one-way delay: 86.011 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 50.00 Mbit/s
95th percentile per-packet one-way delay: 86.012 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 40.70 Mbit/s
95th percentile per-packet one-way delay: 85.984 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 31.60 Mbit/s
95th percentile per-packet one-way delay: 86.050 ms
Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-11-30 10:19:48

End at: 2018-11-30 10:20:18

Local clock offset: -0.85 ms

Remote clock offset: -0.08 ms

Below is generated by plot.py at 2018-11-30 13:24:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.96 Mbit/s

95th percentile per-packet one-way delay: 86.426 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 50.27 Mbit/s

95th percentile per-packet one-way delay: 86.459 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 49.86 Mbit/s

95th percentile per-packet one-way delay: 85.986 ms

Loss rate: 1.32%

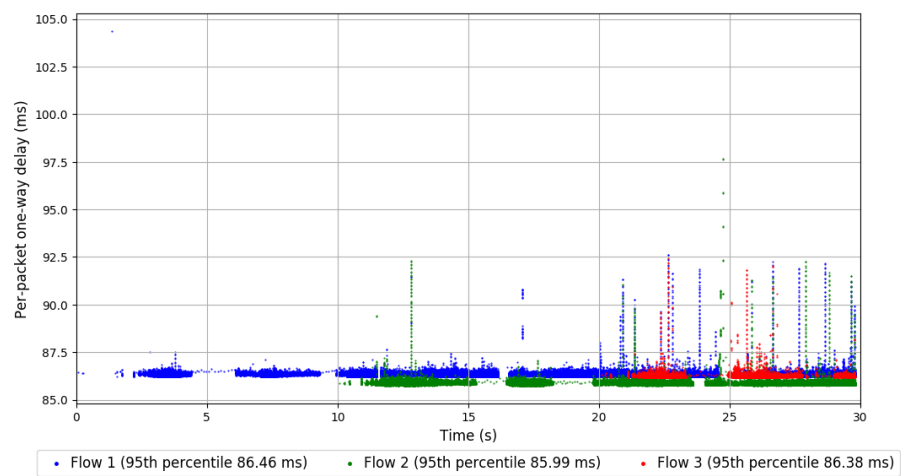
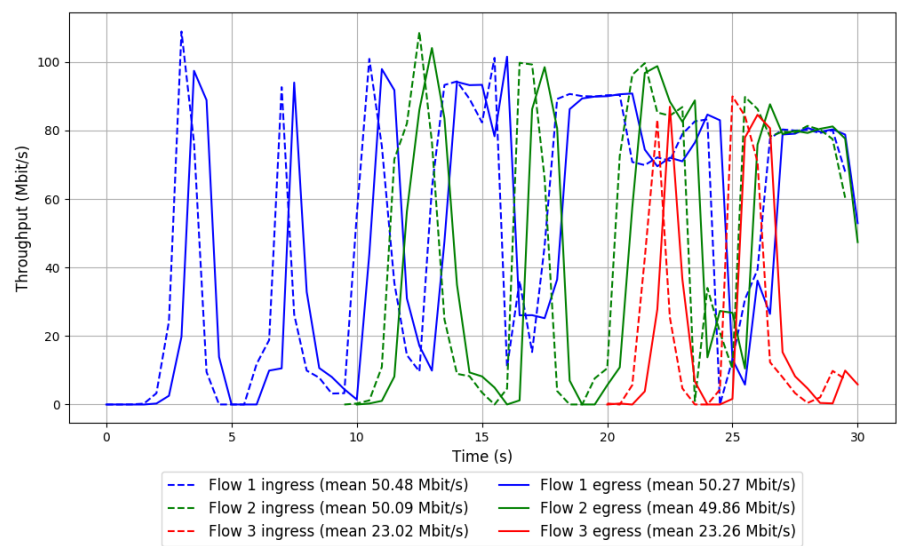
-- Flow 3:

Average throughput: 23.26 Mbit/s

95th percentile per-packet one-way delay: 86.381 ms

Loss rate: 0.71%

Run 4: Report of QUIC Cubic — Data Link

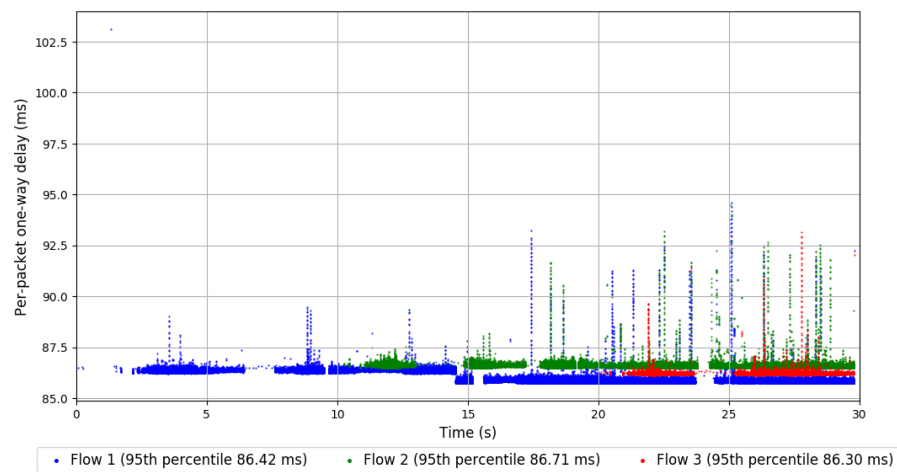
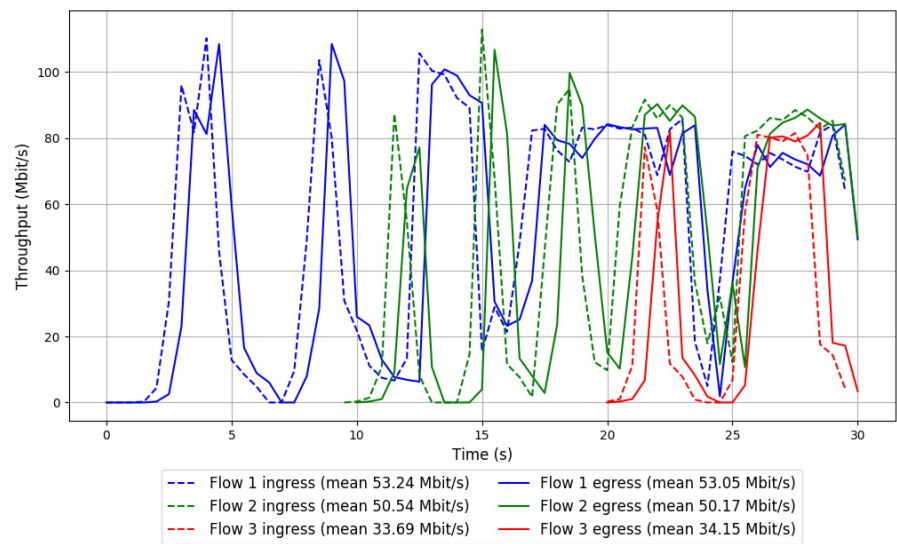


Run 5: Statistics of QUIC Cubic

Start at: 2018-11-30 10:54:49
End at: 2018-11-30 10:55:19
Local clock offset: 0.066 ms
Remote clock offset: -0.101 ms

Below is generated by plot.py at 2018-11-30 13:24:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.50 Mbit/s
95th percentile per-packet one-way delay: 86.641 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 53.05 Mbit/s
95th percentile per-packet one-way delay: 86.418 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 50.17 Mbit/s
95th percentile per-packet one-way delay: 86.714 ms
Loss rate: 1.59%
-- Flow 3:
Average throughput: 34.15 Mbit/s
95th percentile per-packet one-way delay: 86.300 ms
Loss rate: 0.28%

Run 5: Report of QUIC Cubic — Data Link

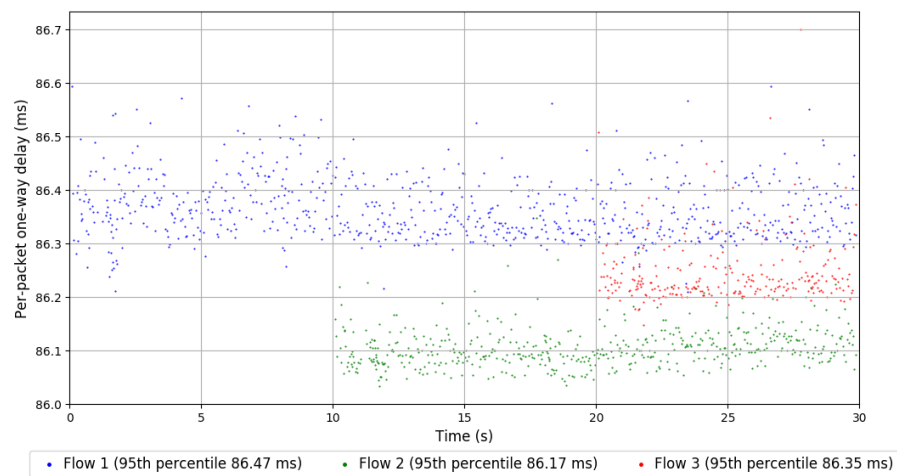
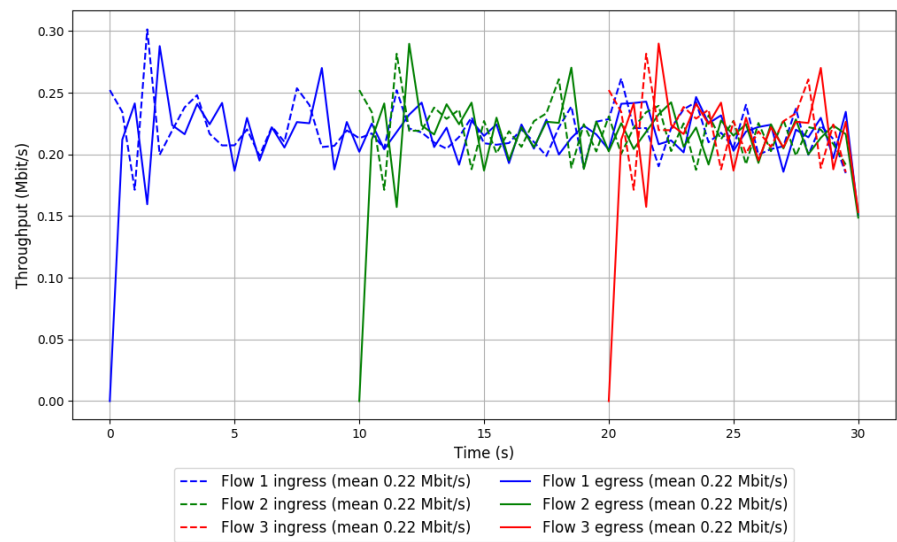


Run 1: Statistics of SReAM

Start at: 2018-11-30 08:21:32
End at: 2018-11-30 08:22:02
Local clock offset: -0.159 ms
Remote clock offset: -0.047 ms

Below is generated by plot.py at 2018-11-30 13:24:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.441 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.471 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.172 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.351 ms
Loss rate: 1.46%

Run 1: Report of SReAM — Data Link

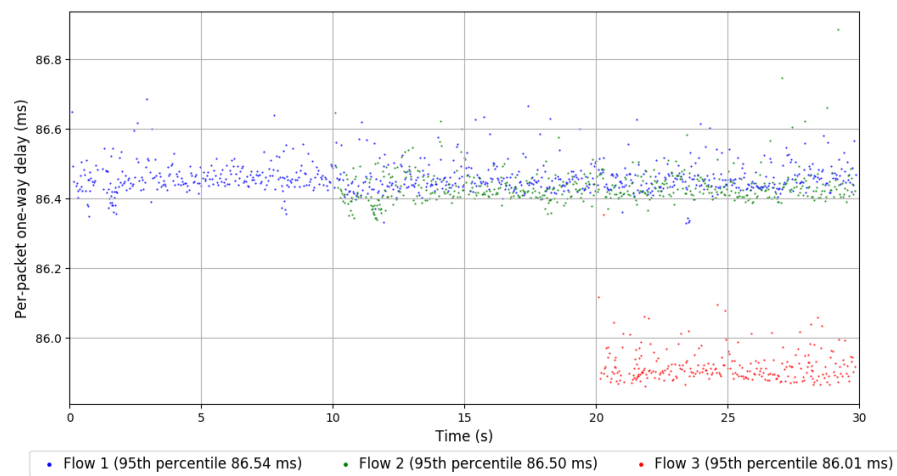
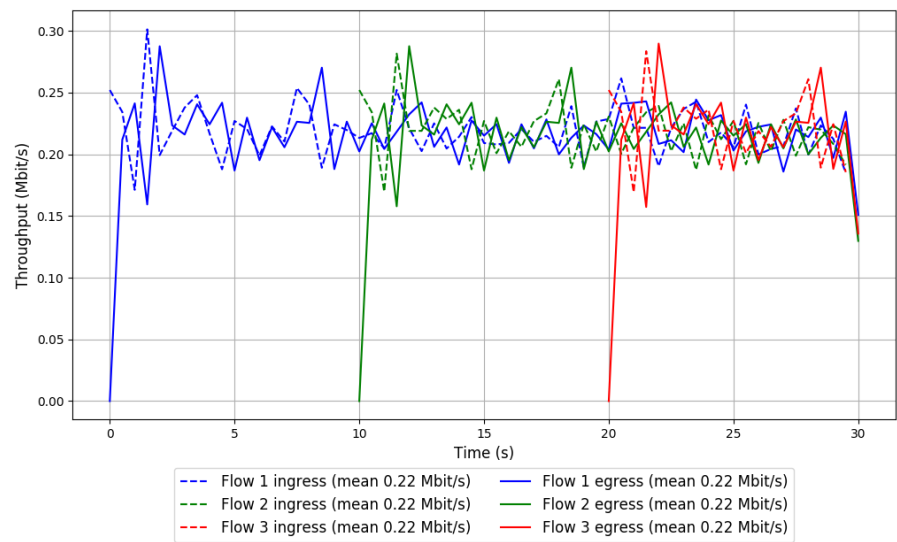


Run 2: Statistics of SReAM

Start at: 2018-11-30 08:56:15
End at: 2018-11-30 08:56:45
Local clock offset: -0.299 ms
Remote clock offset: -0.137 ms

Below is generated by plot.py at 2018-11-30 13:24:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.517 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.541 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.504 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.013 ms
Loss rate: 1.85%

Run 2: Report of SReAM — Data Link

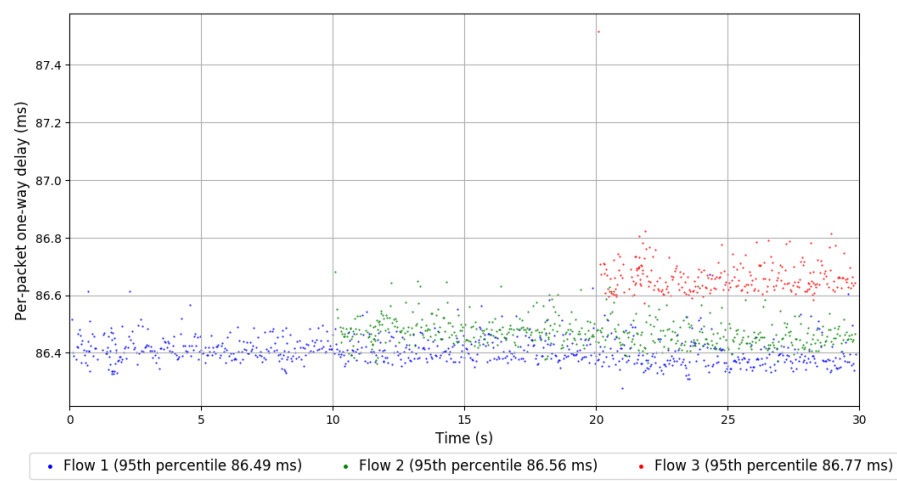
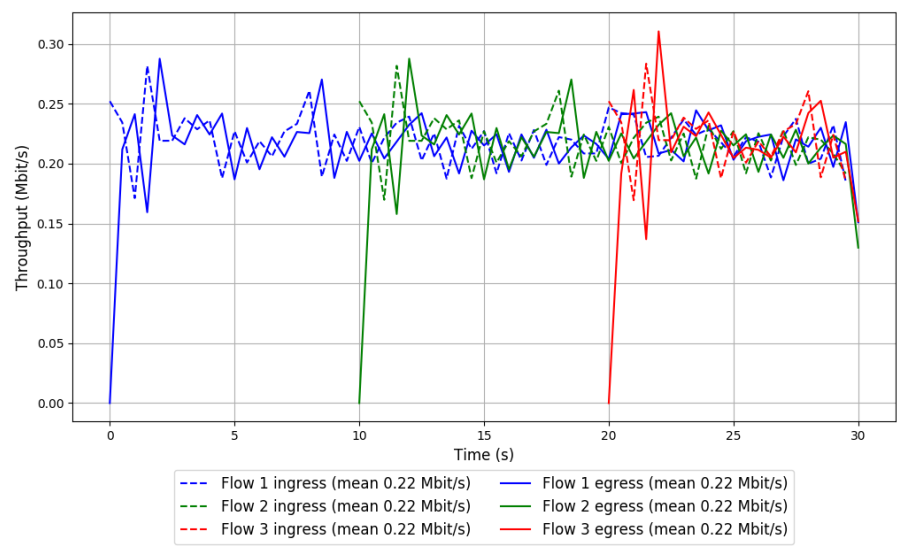


Run 3: Statistics of SReAM

Start at: 2018-11-30 09:31:01
End at: 2018-11-30 09:31:31
Local clock offset: -0.517 ms
Remote clock offset: -0.137 ms

Below is generated by plot.py at 2018-11-30 13:24:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.681 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.488 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.563 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.766 ms
Loss rate: 1.85%

Run 3: Report of SReAM — Data Link

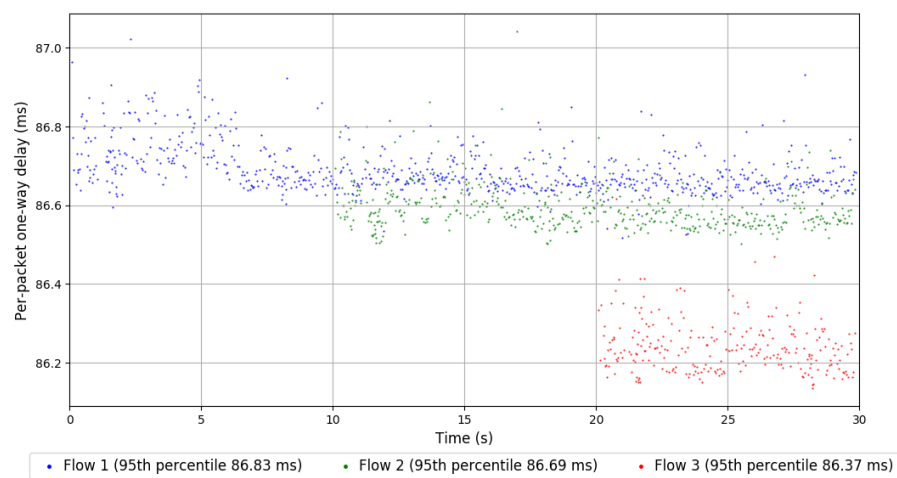
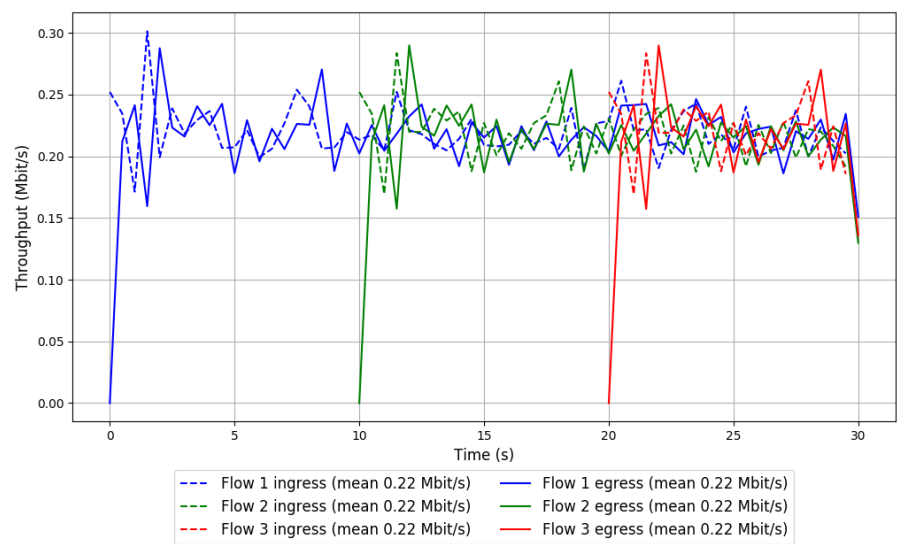


Run 4: Statistics of SReAM

Start at: 2018-11-30 10:05:07
End at: 2018-11-30 10:05:37
Local clock offset: -0.503 ms
Remote clock offset: -0.119 ms

Below is generated by plot.py at 2018-11-30 13:24:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.778 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.825 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.693 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.369 ms
Loss rate: 1.85%

Run 4: Report of SReAM — Data Link

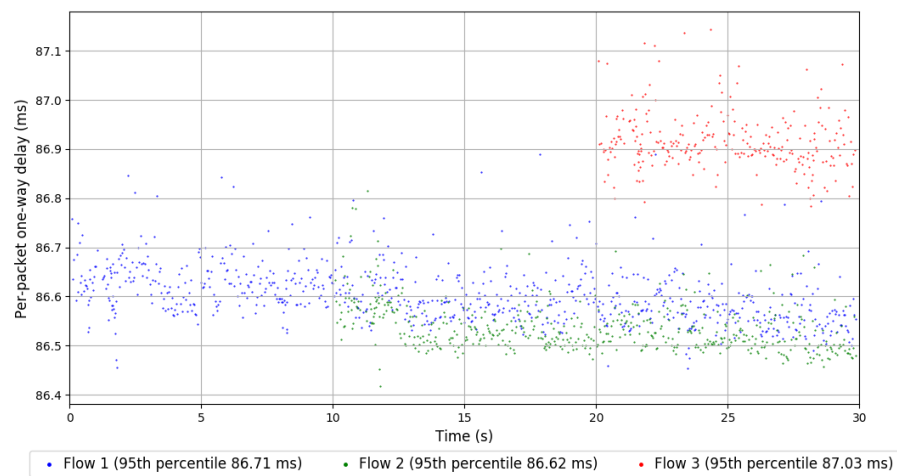
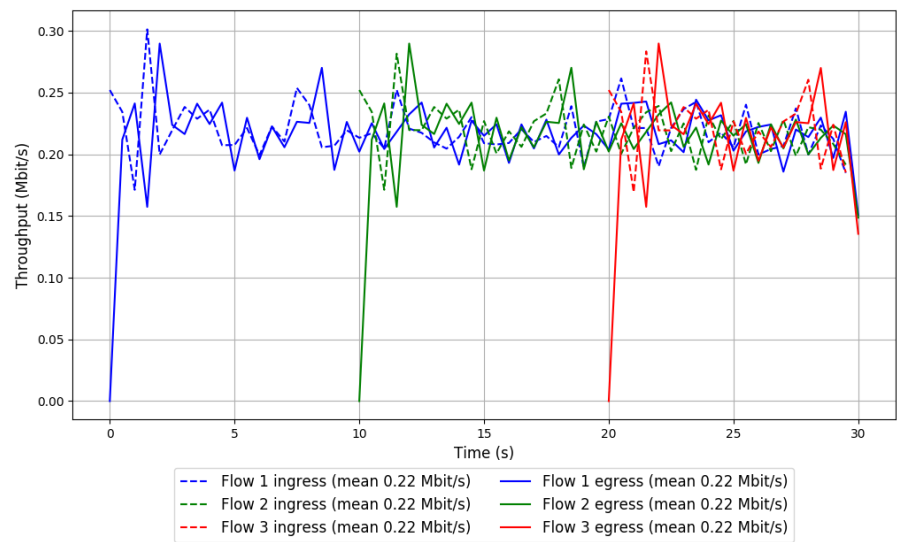


Run 5: Statistics of SReAM

Start at: 2018-11-30 10:39:29
End at: 2018-11-30 10:39:59
Local clock offset: -0.157 ms
Remote clock offset: -0.072 ms

Below is generated by plot.py at 2018-11-30 13:24:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.931 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.706 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.624 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.031 ms
Loss rate: 1.85%

Run 5: Report of SReAM — Data Link

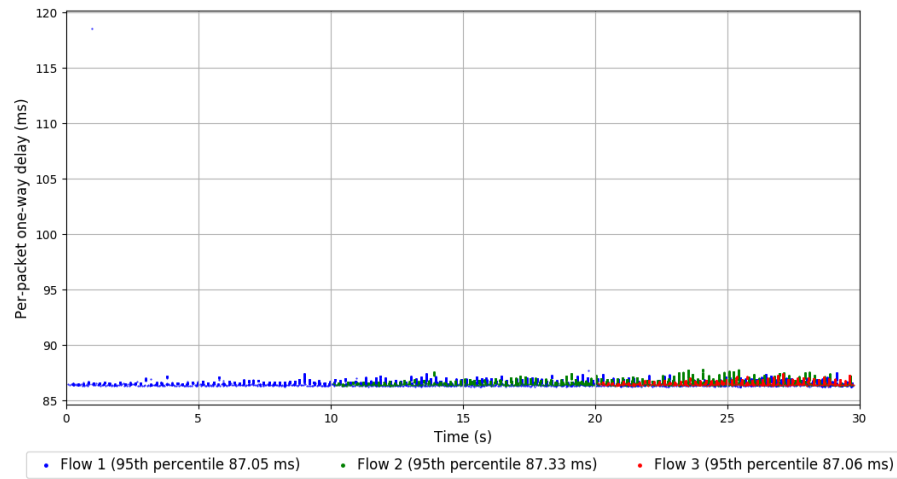
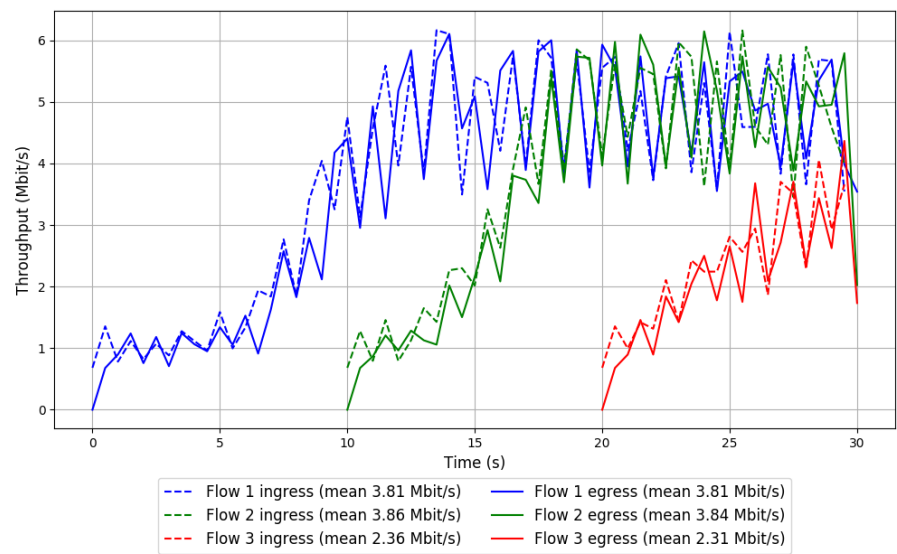


Run 1: Statistics of Sprout

Start at: 2018-11-30 08:18:22
End at: 2018-11-30 08:18:52
Local clock offset: 0.112 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2018-11-30 13:24:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.11 Mbit/s
95th percentile per-packet one-way delay: 87.168 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 3.81 Mbit/s
95th percentile per-packet one-way delay: 87.053 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 3.84 Mbit/s
95th percentile per-packet one-way delay: 87.332 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 87.061 ms
Loss rate: 4.14%

Run 1: Report of Sprout — Data Link

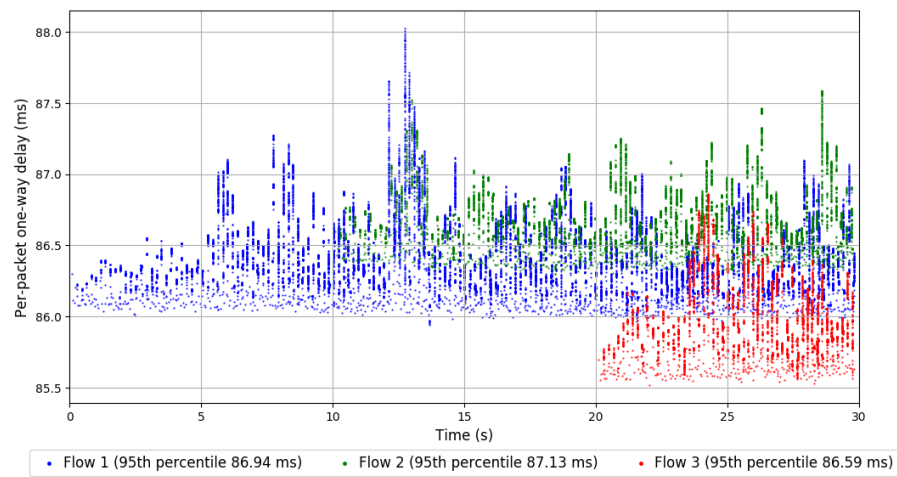
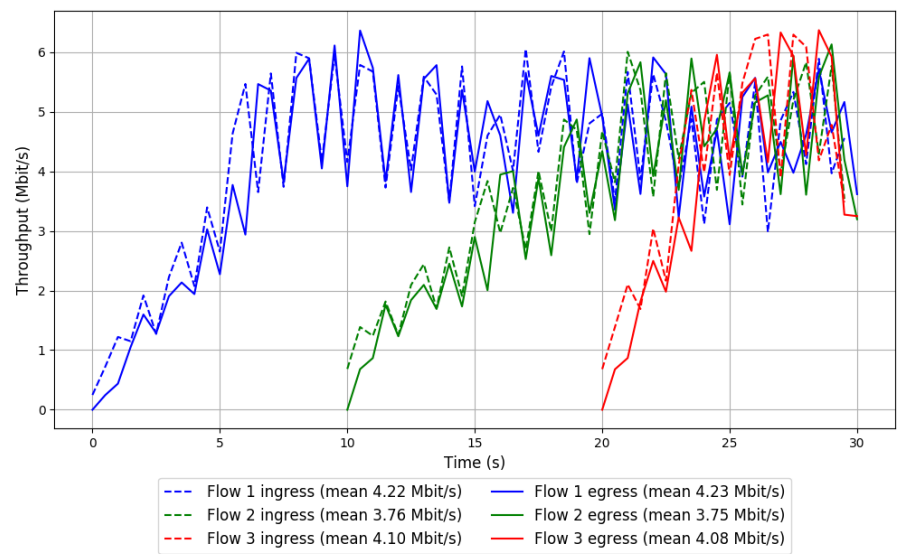


Run 2: Statistics of Sprout

Start at: 2018-11-30 08:53:03
End at: 2018-11-30 08:53:33
Local clock offset: -0.492 ms
Remote clock offset: 0.006 ms

Below is generated by plot.py at 2018-11-30 13:24:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.04 Mbit/s
95th percentile per-packet one-way delay: 87.005 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 4.23 Mbit/s
95th percentile per-packet one-way delay: 86.937 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 3.75 Mbit/s
95th percentile per-packet one-way delay: 87.129 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 4.08 Mbit/s
95th percentile per-packet one-way delay: 86.586 ms
Loss rate: 2.16%

Run 2: Report of Sprout — Data Link

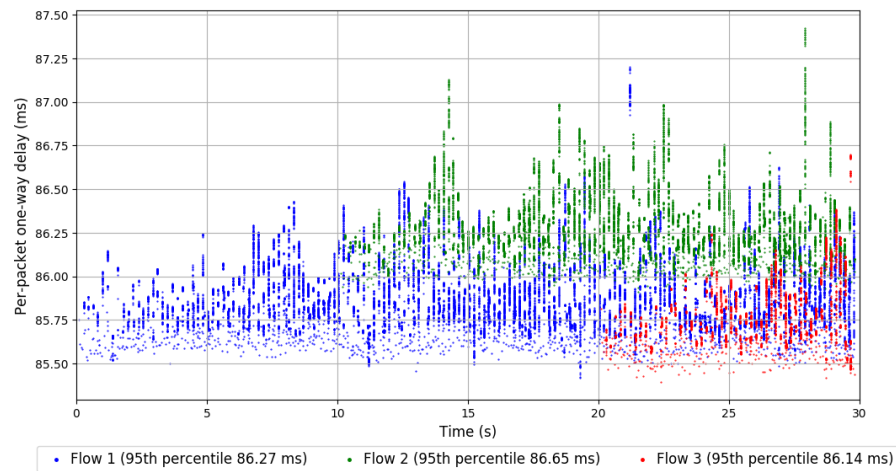
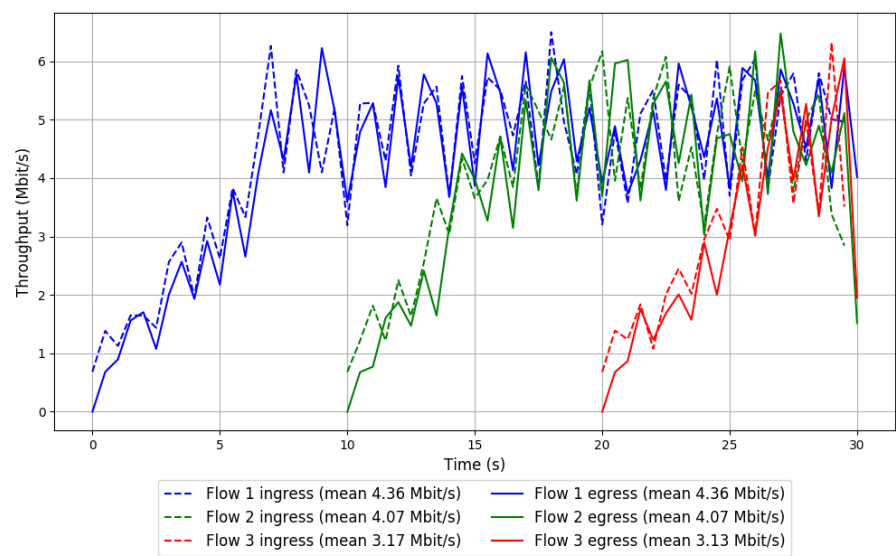


Run 3: Statistics of Sprout

Start at: 2018-11-30 09:27:39
End at: 2018-11-30 09:28:09
Local clock offset: -0.89 ms
Remote clock offset: -0.106 ms

```
# Below is generated by plot.py at 2018-11-30 13:24:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.07 Mbit/s
95th percentile per-packet one-way delay: 86.486 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 4.36 Mbit/s
95th percentile per-packet one-way delay: 86.271 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 4.07 Mbit/s
95th percentile per-packet one-way delay: 86.646 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 3.13 Mbit/s
95th percentile per-packet one-way delay: 86.142 ms
Loss rate: 2.93%
```

Run 3: Report of Sprout — Data Link

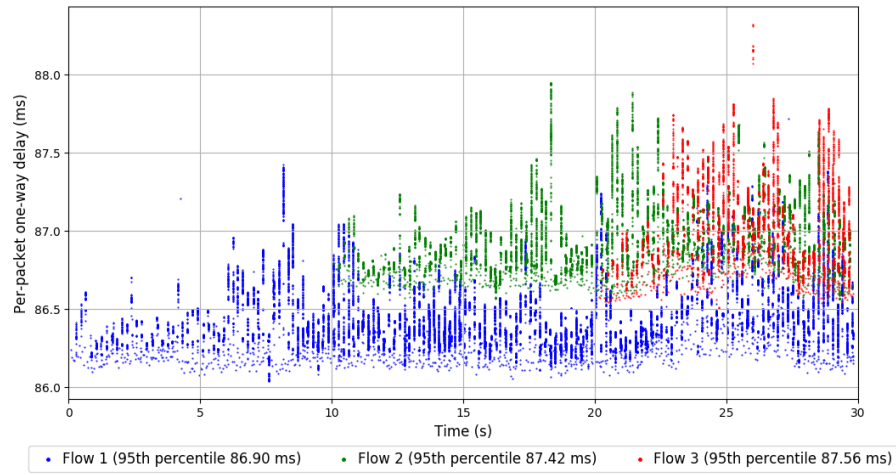
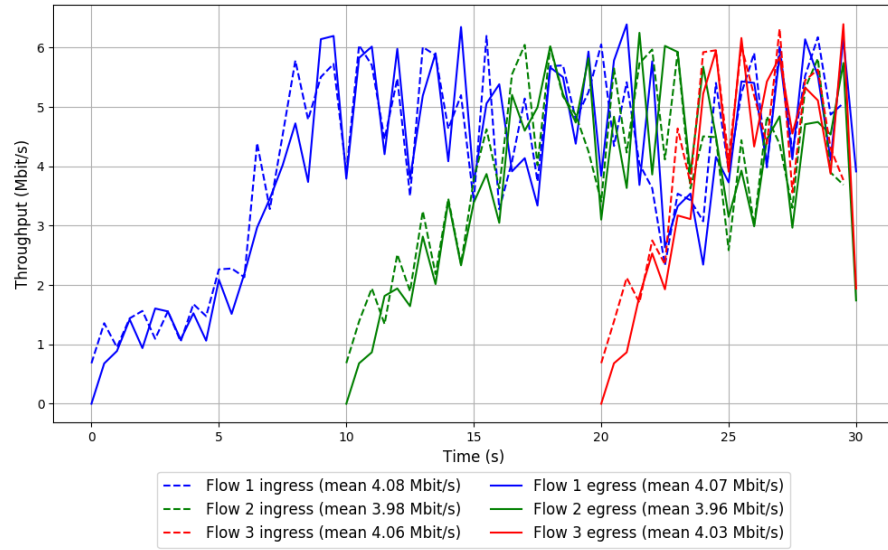


Run 4: Statistics of Sprout

Start at: 2018-11-30 10:01:57
End at: 2018-11-30 10:02:27
Local clock offset: -0.472 ms
Remote clock offset: -0.175 ms

```
# Below is generated by plot.py at 2018-11-30 13:24:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.01 Mbit/s
95th percentile per-packet one-way delay: 87.339 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 4.07 Mbit/s
95th percentile per-packet one-way delay: 86.902 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 3.96 Mbit/s
95th percentile per-packet one-way delay: 87.420 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 4.03 Mbit/s
95th percentile per-packet one-way delay: 87.559 ms
Loss rate: 2.29%
```

Run 4: Report of Sprout — Data Link

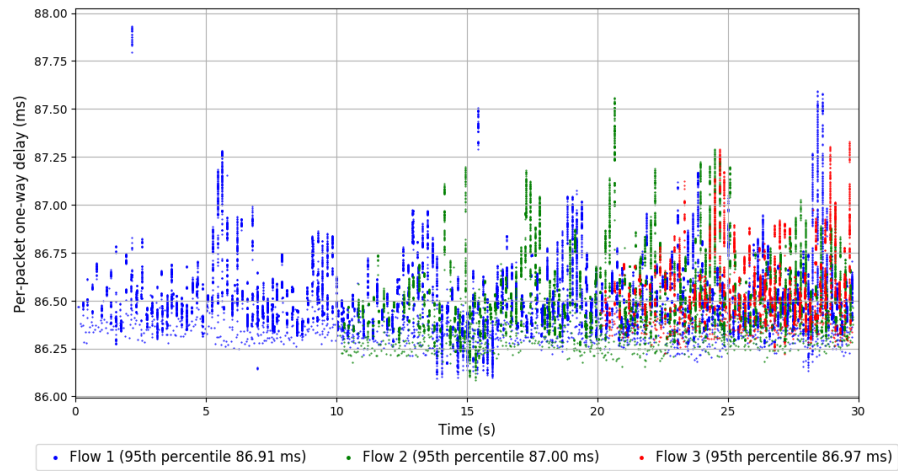
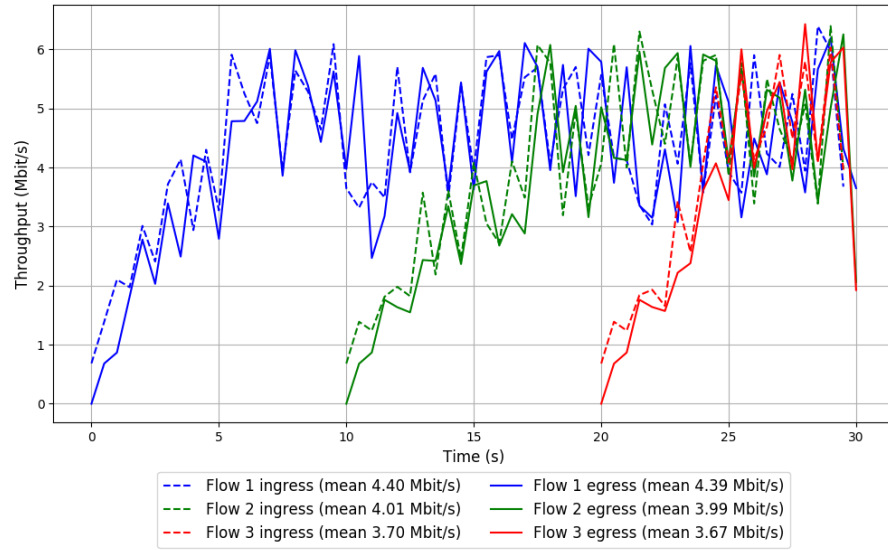


Run 5: Statistics of Sprout

Start at: 2018-11-30 10:36:10
End at: 2018-11-30 10:36:40
Local clock offset: -0.621 ms
Remote clock offset: -0.044 ms

Below is generated by plot.py at 2018-11-30 13:24:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.23 Mbit/s
95th percentile per-packet one-way delay: 86.947 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 4.39 Mbit/s
95th percentile per-packet one-way delay: 86.907 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 3.99 Mbit/s
95th percentile per-packet one-way delay: 87.002 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 3.67 Mbit/s
95th percentile per-packet one-way delay: 86.973 ms
Loss rate: 2.80%

Run 5: Report of Sprout — Data Link

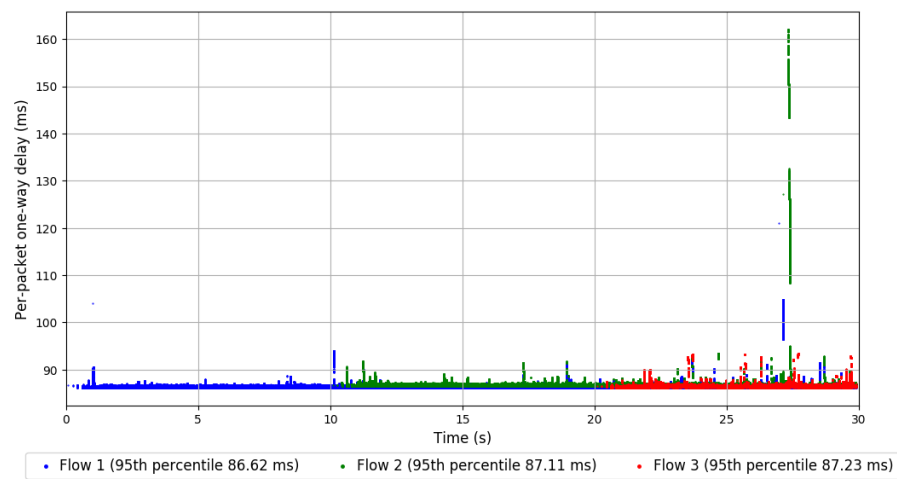
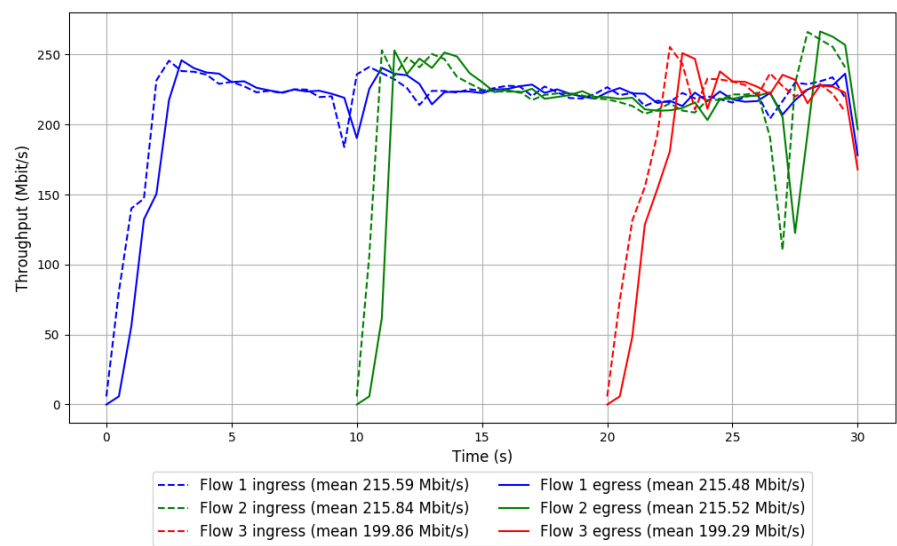


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-11-30 08:30:42
End at: 2018-11-30 08:31:12
Local clock offset: 0.323 ms
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2018-11-30 13:31:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 424.10 Mbit/s
95th percentile per-packet one-way delay: 86.950 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 215.48 Mbit/s
95th percentile per-packet one-way delay: 86.620 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 215.52 Mbit/s
95th percentile per-packet one-way delay: 87.110 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 199.29 Mbit/s
95th percentile per-packet one-way delay: 87.228 ms
Loss rate: 2.01%
```

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

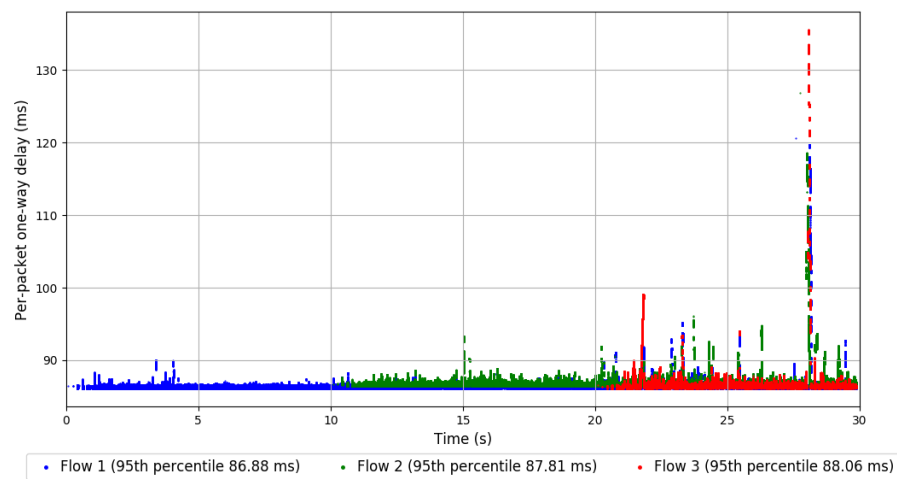
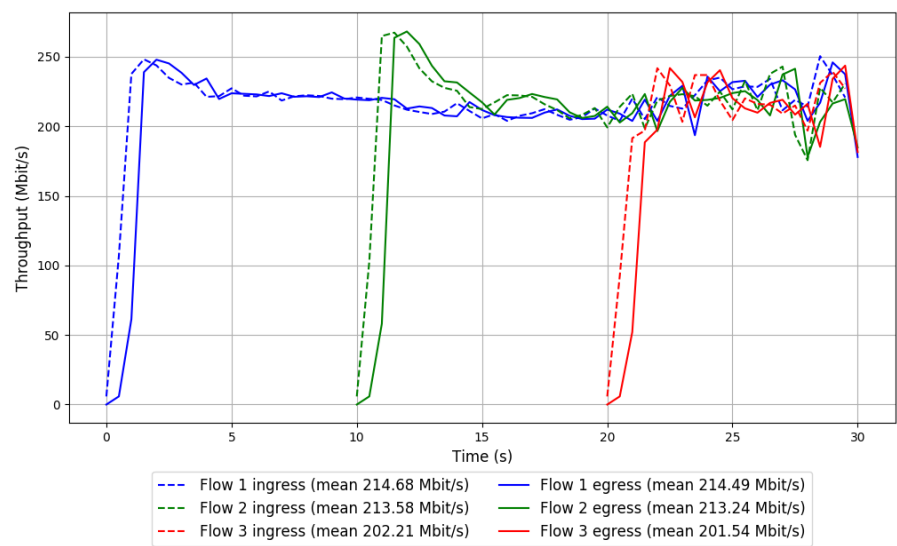


Run 2: Statistics of TaoVA-100x

Start at: 2018-11-30 09:05:27
End at: 2018-11-30 09:05:57
Local clock offset: -0.399 ms
Remote clock offset: -0.068 ms

Below is generated by plot.py at 2018-11-30 13:31:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 422.31 Mbit/s
95th percentile per-packet one-way delay: 87.457 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 214.49 Mbit/s
95th percentile per-packet one-way delay: 86.881 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 213.24 Mbit/s
95th percentile per-packet one-way delay: 87.805 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 201.54 Mbit/s
95th percentile per-packet one-way delay: 88.061 ms
Loss rate: 2.09%

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

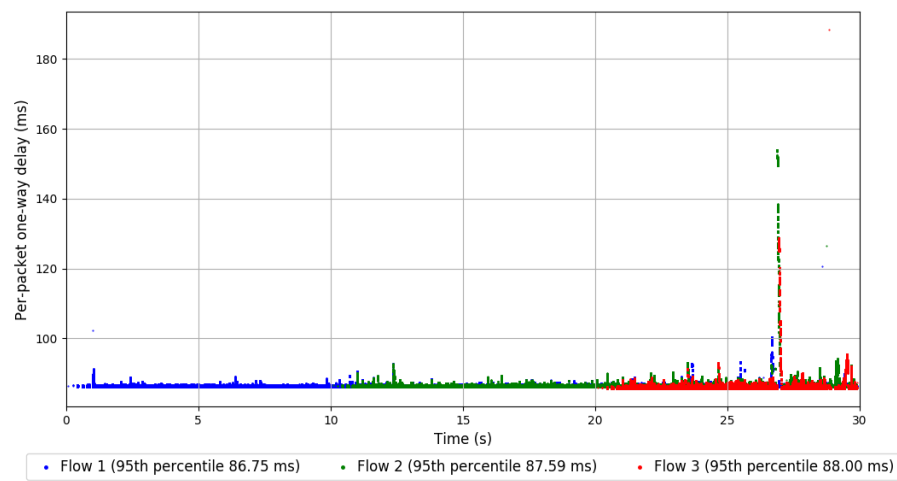
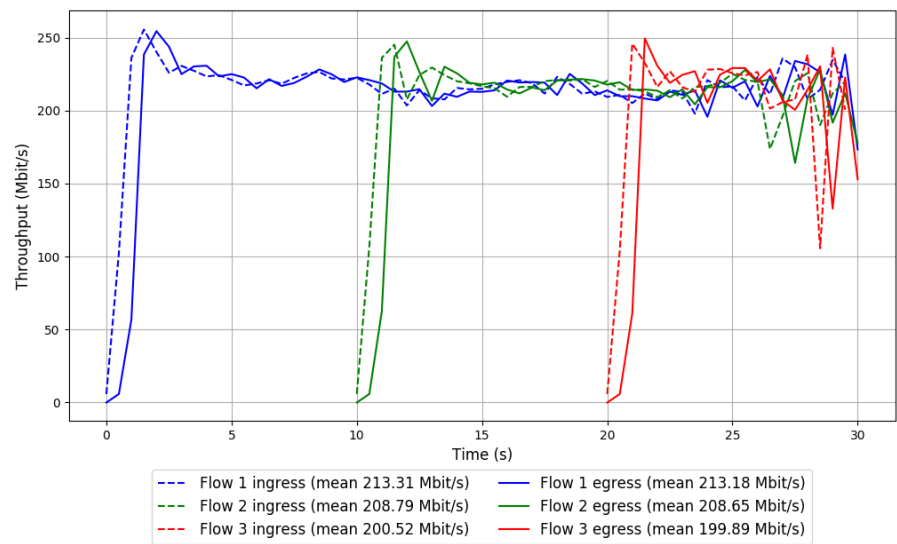


Run 3: Statistics of TaoVA-100x

Start at: 2018-11-30 09:40:17
End at: 2018-11-30 09:40:47
Local clock offset: -0.592 ms
Remote clock offset: -0.139 ms

Below is generated by plot.py at 2018-11-30 13:31:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 417.34 Mbit/s
95th percentile per-packet one-way delay: 87.119 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 213.18 Mbit/s
95th percentile per-packet one-way delay: 86.745 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 208.65 Mbit/s
95th percentile per-packet one-way delay: 87.594 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 199.89 Mbit/s
95th percentile per-packet one-way delay: 88.000 ms
Loss rate: 2.02%

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

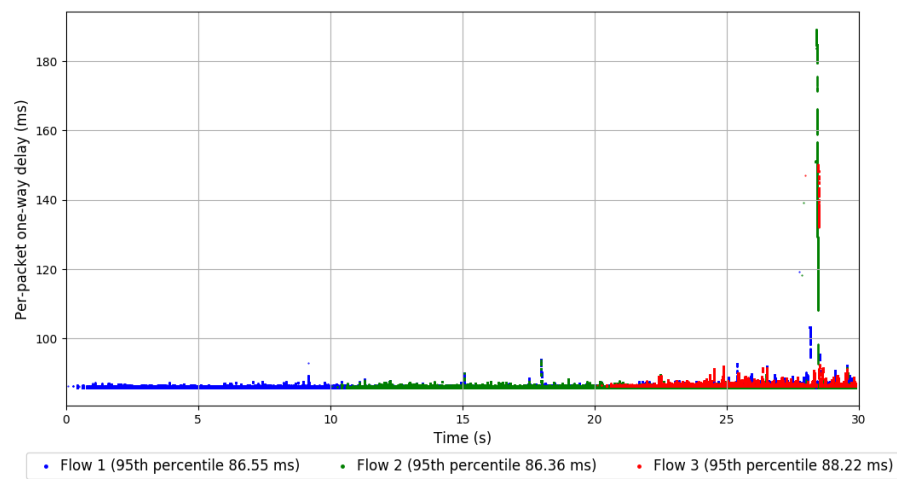
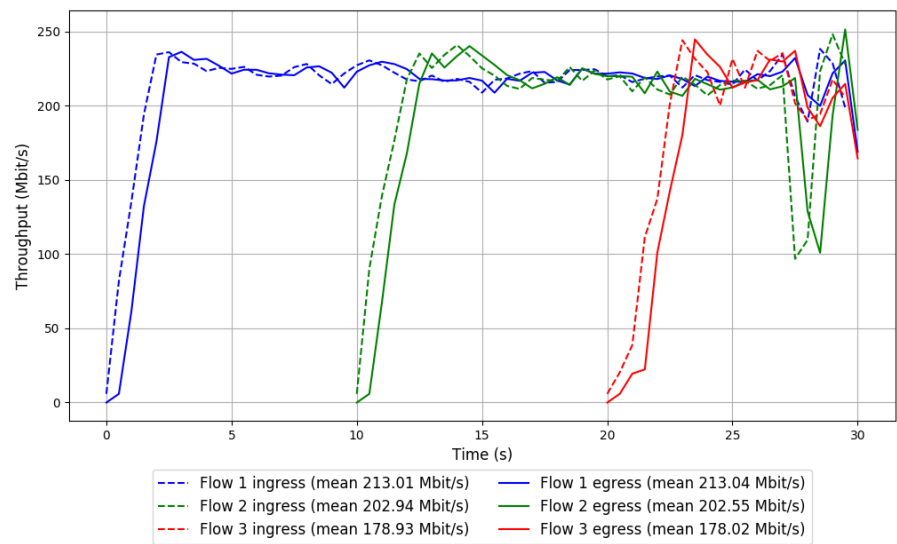


Run 4: Statistics of TaoVA-100x

Start at: 2018-11-30 10:14:08
End at: 2018-11-30 10:14:38
Local clock offset: -0.799 ms
Remote clock offset: -0.053 ms

Below is generated by plot.py at 2018-11-30 13:31:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 406.13 Mbit/s
95th percentile per-packet one-way delay: 86.756 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 213.04 Mbit/s
95th percentile per-packet one-way delay: 86.548 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 202.55 Mbit/s
95th percentile per-packet one-way delay: 86.358 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 178.02 Mbit/s
95th percentile per-packet one-way delay: 88.223 ms
Loss rate: 2.24%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-11-30 10:49:02

End at: 2018-11-30 10:49:32

Local clock offset: 0.196 ms

Remote clock offset: -0.12 ms

Below is generated by plot.py at 2018-11-30 13:33:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 418.87 Mbit/s

95th percentile per-packet one-way delay: 87.431 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 216.54 Mbit/s

95th percentile per-packet one-way delay: 87.220 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 212.63 Mbit/s

95th percentile per-packet one-way delay: 87.640 ms

Loss rate: 0.99%

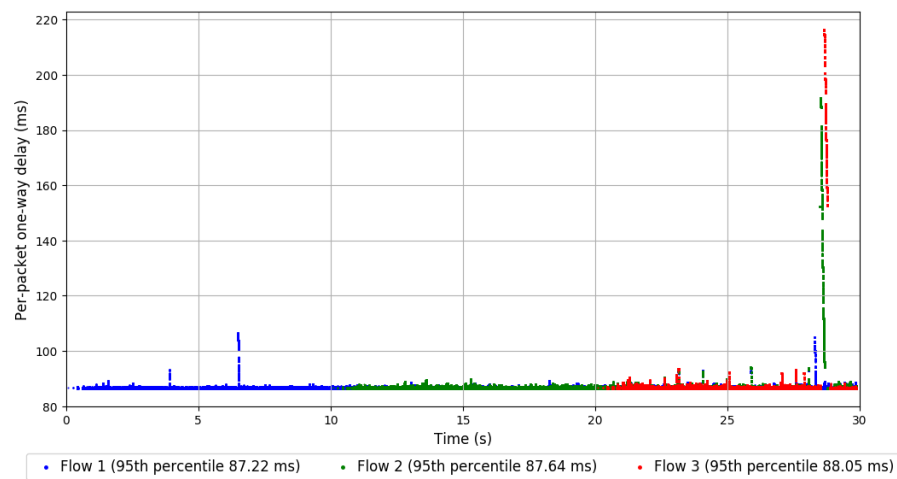
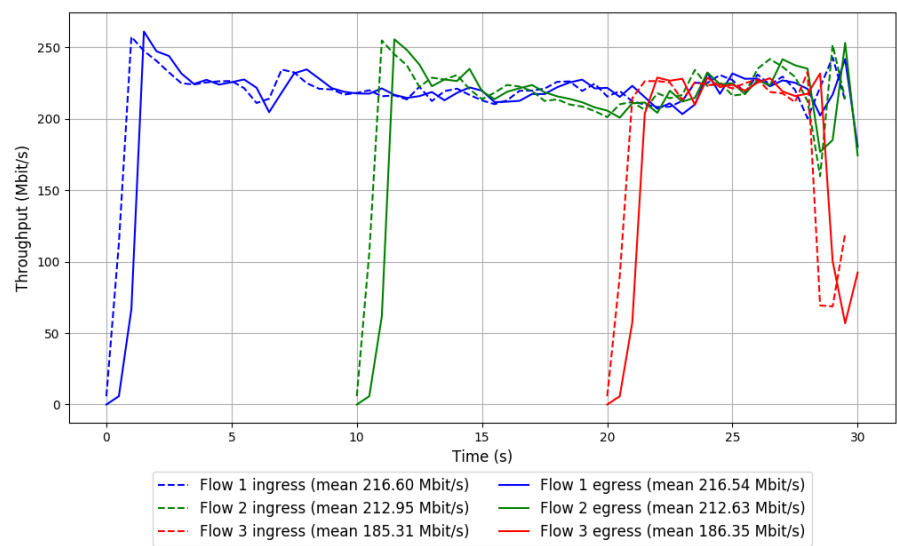
-- Flow 3:

Average throughput: 186.35 Mbit/s

95th percentile per-packet one-way delay: 88.050 ms

Loss rate: 1.20%

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

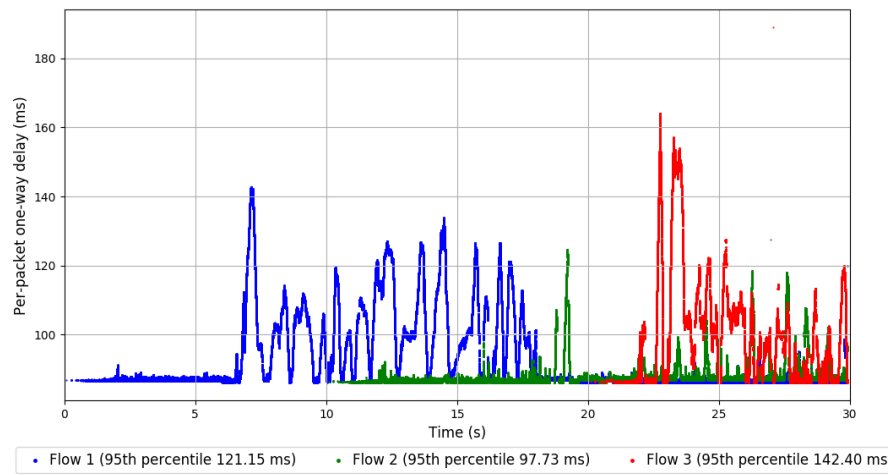
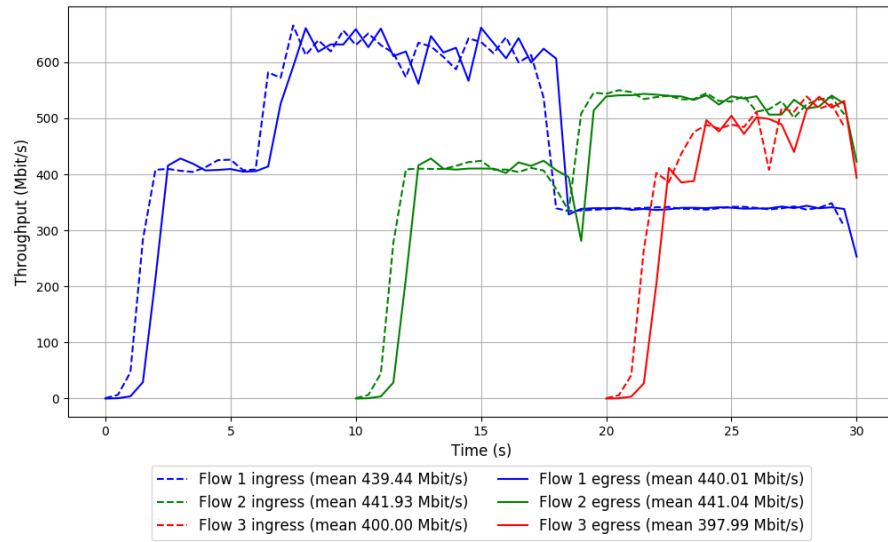


Run 1: Statistics of TCP Vegas

Start at: 2018-11-30 08:34:17
End at: 2018-11-30 08:34:47
Local clock offset: 0.28 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2018-11-30 13:37:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 863.68 Mbit/s
95th percentile per-packet one-way delay: 118.646 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 440.01 Mbit/s
95th percentile per-packet one-way delay: 121.146 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 441.04 Mbit/s
95th percentile per-packet one-way delay: 97.731 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 397.99 Mbit/s
95th percentile per-packet one-way delay: 142.397 ms
Loss rate: 2.22%

Run 1: Report of TCP Vegas — Data Link

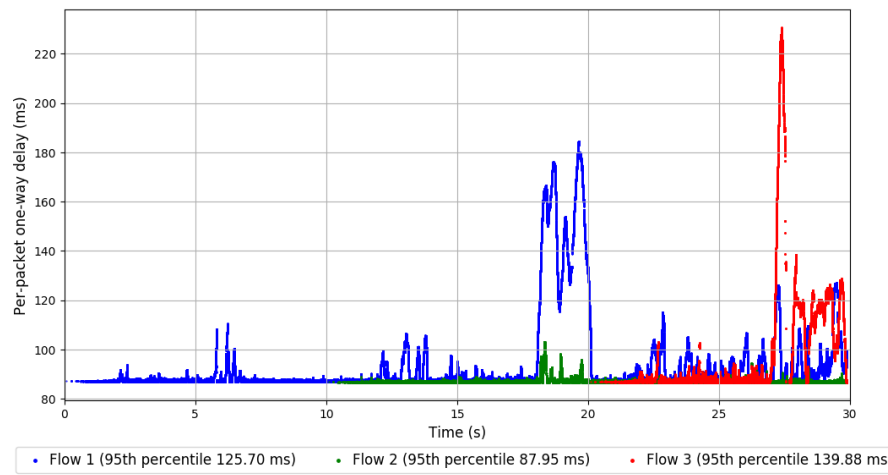
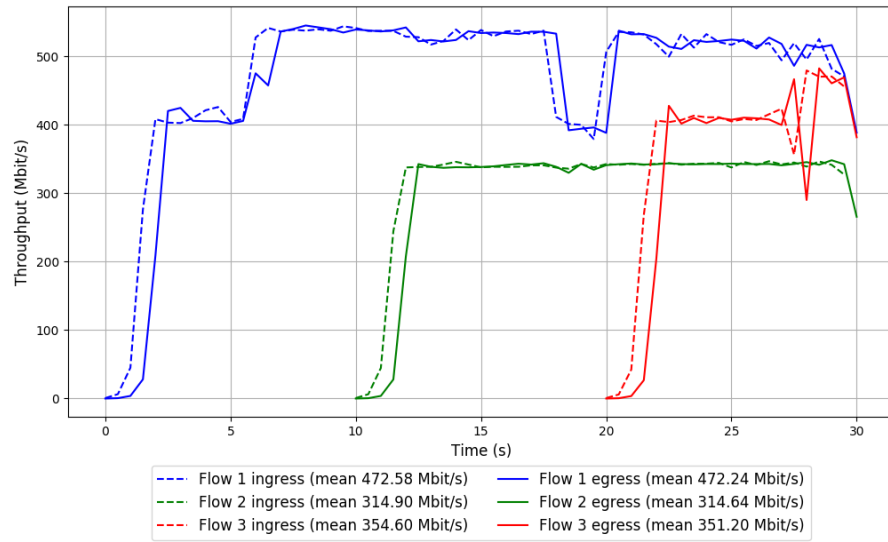


Run 2: Statistics of TCP Vegas

Start at: 2018-11-30 09:09:02
End at: 2018-11-30 09:09:32
Local clock offset: 0.045 ms
Remote clock offset: -0.118 ms

Below is generated by plot.py at 2018-11-30 13:38:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 796.57 Mbit/s
95th percentile per-packet one-way delay: 121.682 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 472.24 Mbit/s
95th percentile per-packet one-way delay: 125.703 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 314.64 Mbit/s
95th percentile per-packet one-way delay: 87.954 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 351.20 Mbit/s
95th percentile per-packet one-way delay: 139.881 ms
Loss rate: 2.68%

Run 2: Report of TCP Vegas — Data Link

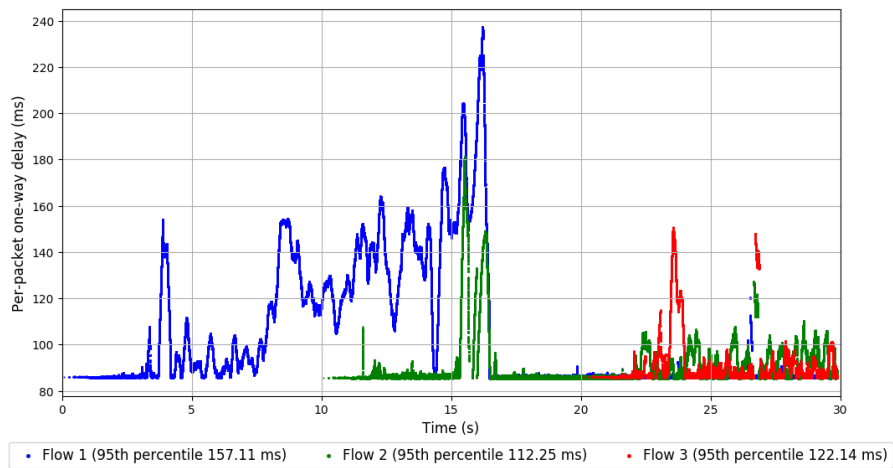
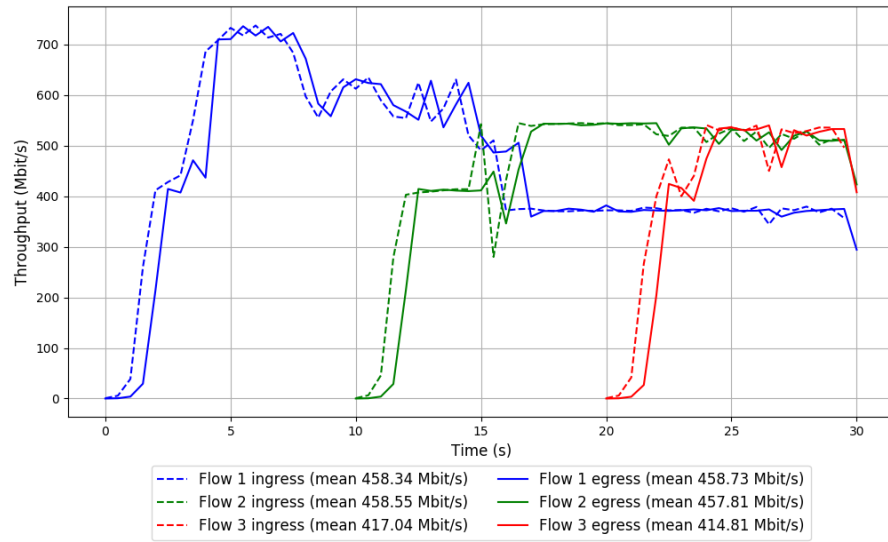


Run 3: Statistics of TCP Vegas

Start at: 2018-11-30 09:44:00
End at: 2018-11-30 09:44:30
Local clock offset: -1.005 ms
Remote clock offset: -0.163 ms

Below is generated by plot.py at 2018-11-30 13:44:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 899.10 Mbit/s
95th percentile per-packet one-way delay: 150.741 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 458.73 Mbit/s
95th percentile per-packet one-way delay: 157.108 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 457.81 Mbit/s
95th percentile per-packet one-way delay: 112.255 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 414.81 Mbit/s
95th percentile per-packet one-way delay: 122.139 ms
Loss rate: 2.25%

Run 3: Report of TCP Vegas — Data Link

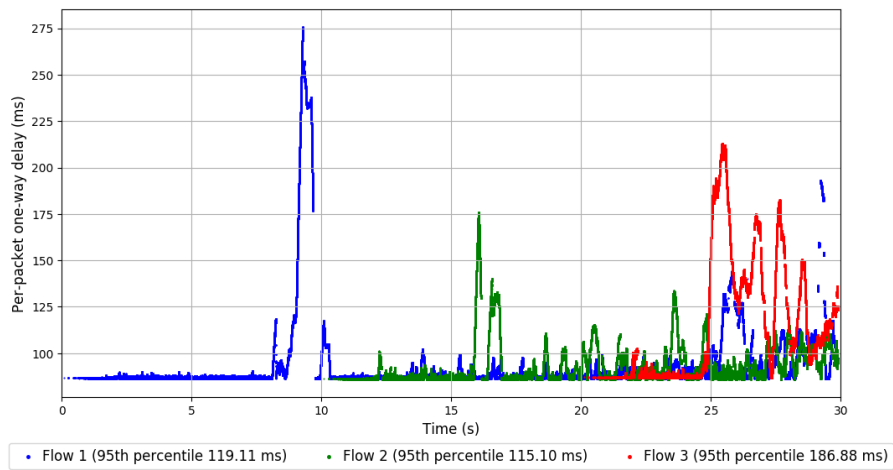
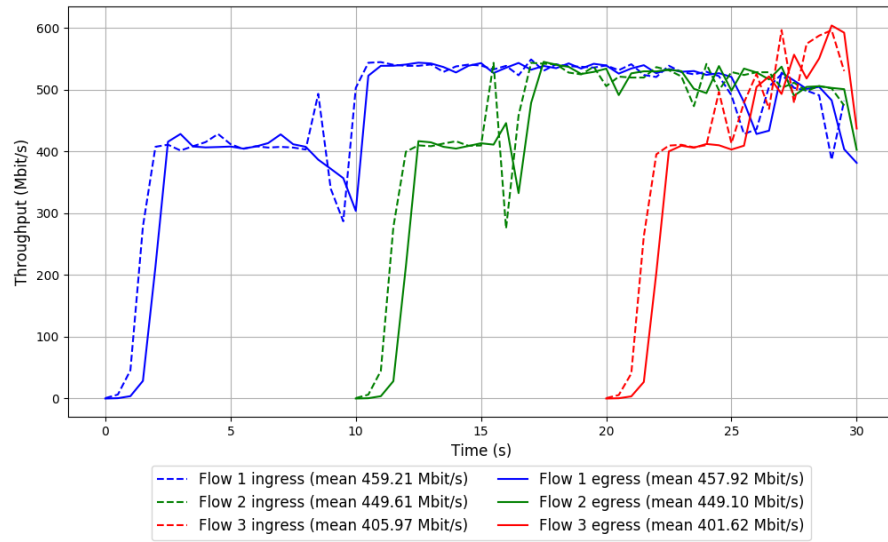


Run 4: Statistics of TCP Vegas

Start at: 2018-11-30 10:17:44
End at: 2018-11-30 10:18:14
Local clock offset: -0.572 ms
Remote clock offset: -0.072 ms

Below is generated by plot.py at 2018-11-30 13:50:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 888.08 Mbit/s
95th percentile per-packet one-way delay: 140.327 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 457.92 Mbit/s
95th percentile per-packet one-way delay: 119.113 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 449.10 Mbit/s
95th percentile per-packet one-way delay: 115.102 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 401.62 Mbit/s
95th percentile per-packet one-way delay: 186.879 ms
Loss rate: 2.80%

Run 4: Report of TCP Vegas — Data Link

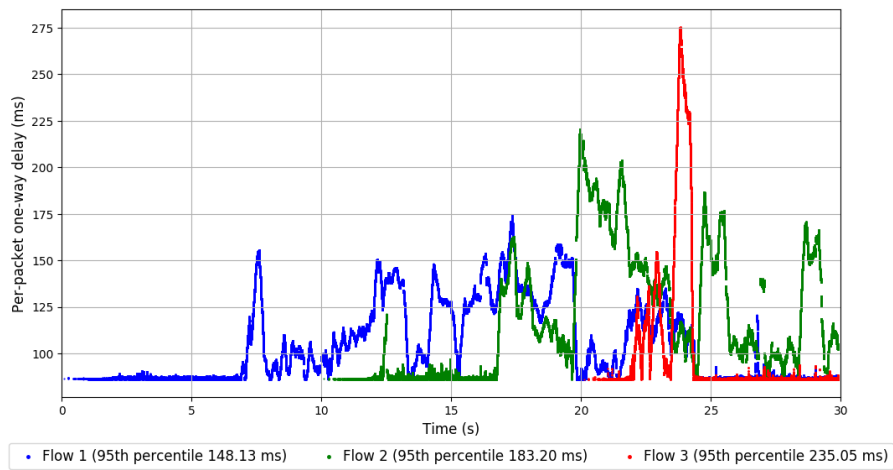
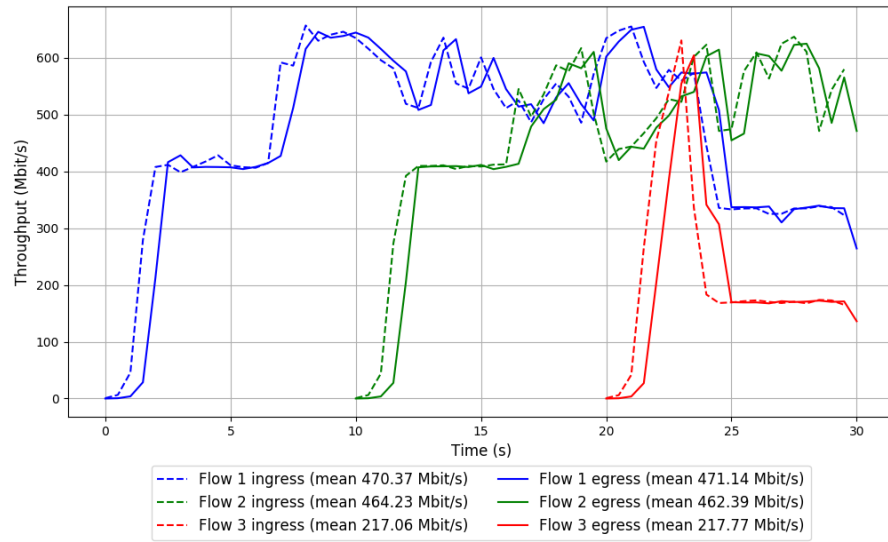


Run 5: Statistics of TCP Vegas

Start at: 2018-11-30 10:52:47
End at: 2018-11-30 10:53:17
Local clock offset: 0.01 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2018-11-30 13:50:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 849.82 Mbit/s
95th percentile per-packet one-way delay: 165.376 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 471.14 Mbit/s
95th percentile per-packet one-way delay: 148.135 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 462.39 Mbit/s
95th percentile per-packet one-way delay: 183.202 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 217.77 Mbit/s
95th percentile per-packet one-way delay: 235.048 ms
Loss rate: 1.41%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-11-30 08:32:40

End at: 2018-11-30 08:33:10

Local clock offset: -0.105 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2018-11-30 13:50:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 201.10 Mbit/s

95th percentile per-packet one-way delay: 150.407 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 130.82 Mbit/s

95th percentile per-packet one-way delay: 150.142 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 93.26 Mbit/s

95th percentile per-packet one-way delay: 157.450 ms

Loss rate: 2.91%

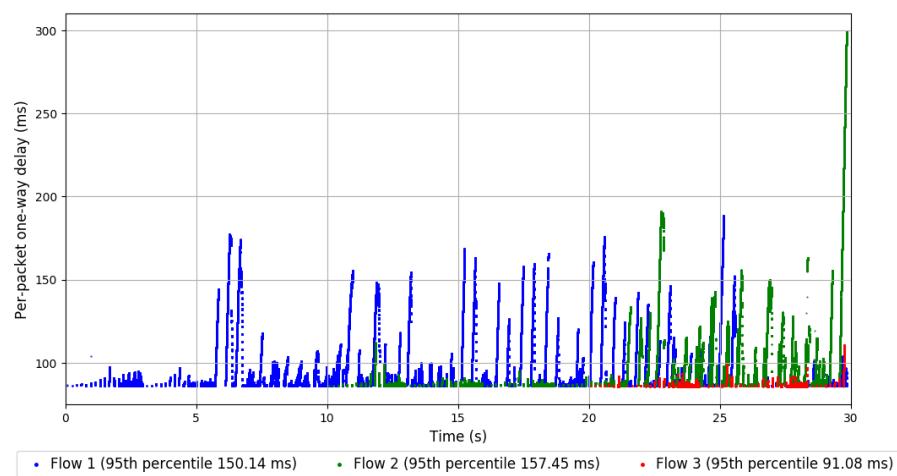
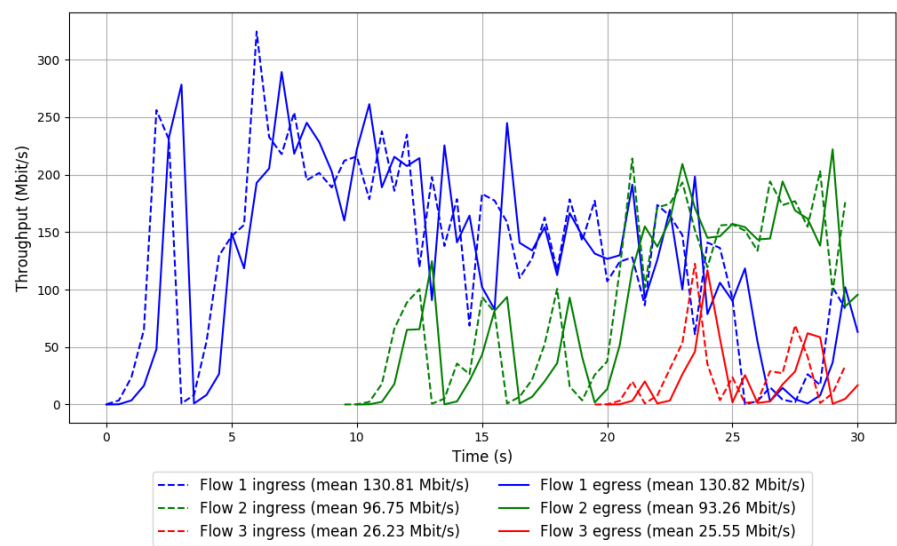
-- Flow 3:

Average throughput: 25.55 Mbit/s

95th percentile per-packet one-way delay: 91.077 ms

Loss rate: 4.33%

Run 1: Report of Verus — Data Link

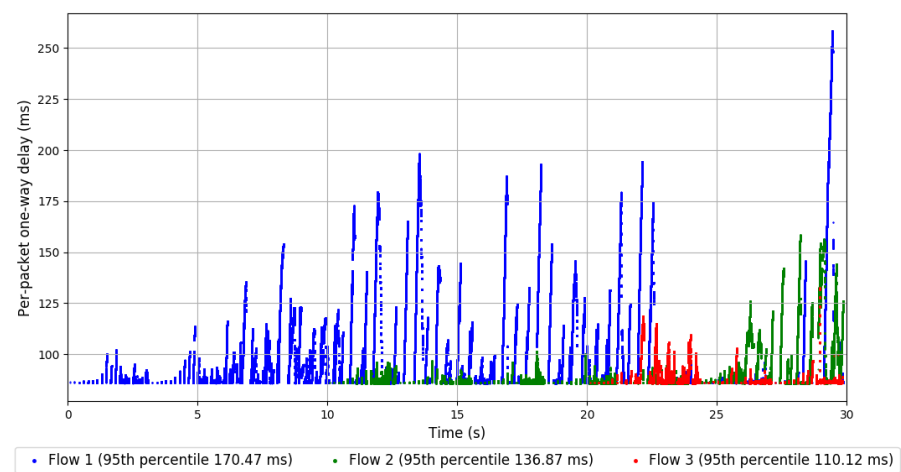
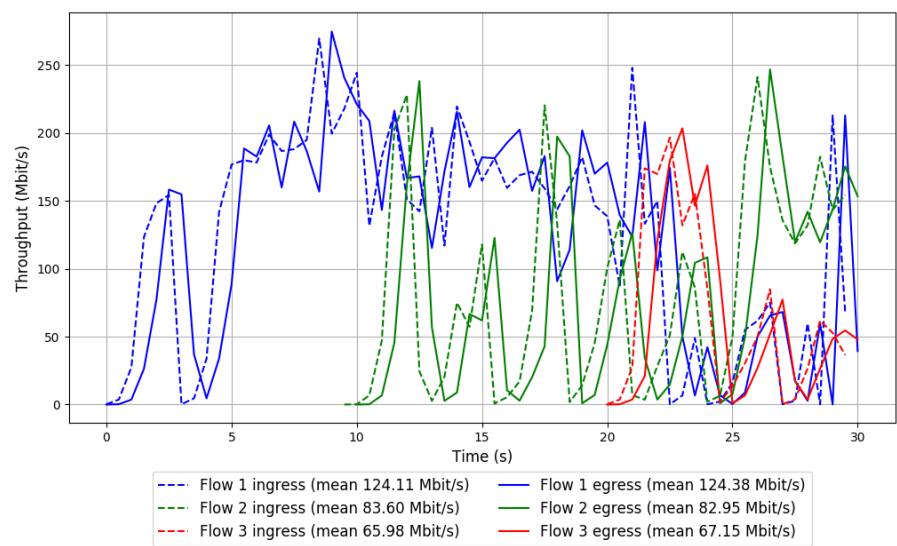


Run 2: Statistics of Verus

Start at: 2018-11-30 09:07:25
End at: 2018-11-30 09:07:55
Local clock offset: -0.561 ms
Remote clock offset: -0.099 ms

Below is generated by plot.py at 2018-11-30 13:50:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 201.41 Mbit/s
95th percentile per-packet one-way delay: 156.427 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 124.38 Mbit/s
95th percentile per-packet one-way delay: 170.475 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 82.95 Mbit/s
95th percentile per-packet one-way delay: 136.869 ms
Loss rate: 1.63%
-- Flow 3:
Average throughput: 67.15 Mbit/s
95th percentile per-packet one-way delay: 110.117 ms
Loss rate: 0.00%

Run 2: Report of Verus — Data Link

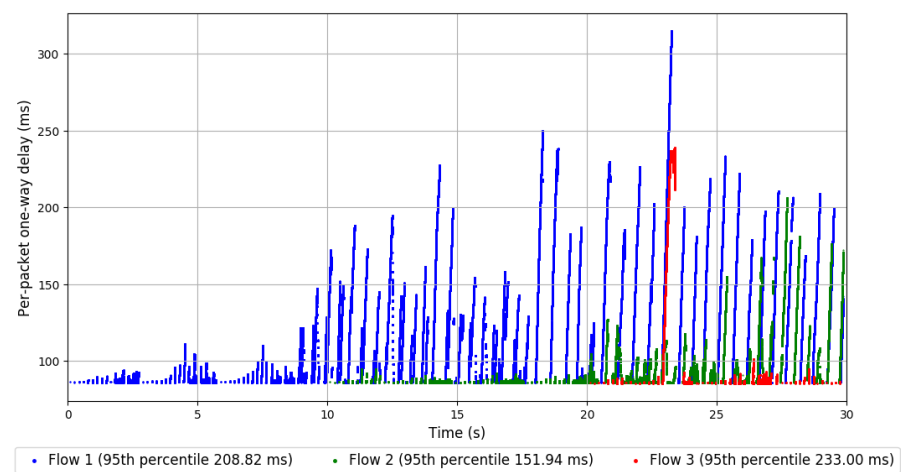
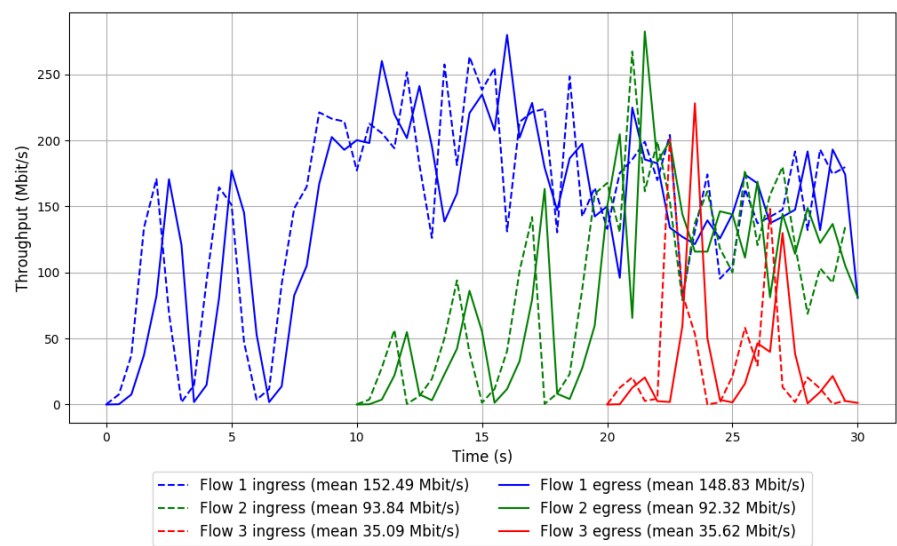


Run 3: Statistics of Verus

Start at: 2018-11-30 09:42:21
End at: 2018-11-30 09:42:51
Local clock offset: -0.81 ms
Remote clock offset: -0.201 ms

Below is generated by plot.py at 2018-11-30 13:50:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 221.65 Mbit/s
95th percentile per-packet one-way delay: 204.903 ms
Loss rate: 2.11%
-- Flow 1:
Average throughput: 148.83 Mbit/s
95th percentile per-packet one-way delay: 208.824 ms
Loss rate: 2.53%
-- Flow 2:
Average throughput: 92.32 Mbit/s
95th percentile per-packet one-way delay: 151.940 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 35.62 Mbit/s
95th percentile per-packet one-way delay: 233.001 ms
Loss rate: 0.28%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-11-30 10:16:06

End at: 2018-11-30 10:16:36

Local clock offset: -0.809 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2018-11-30 13:50:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 205.14 Mbit/s

95th percentile per-packet one-way delay: 181.289 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 130.61 Mbit/s

95th percentile per-packet one-way delay: 137.316 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 98.60 Mbit/s

95th percentile per-packet one-way delay: 221.305 ms

Loss rate: 1.49%

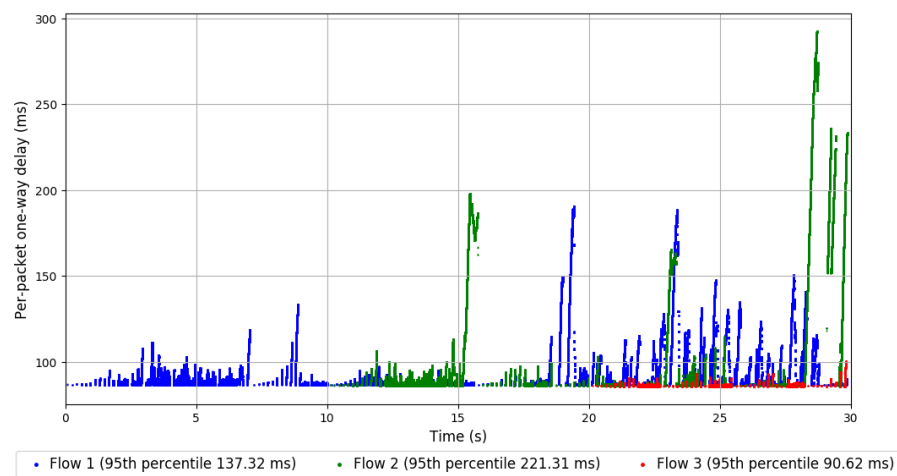
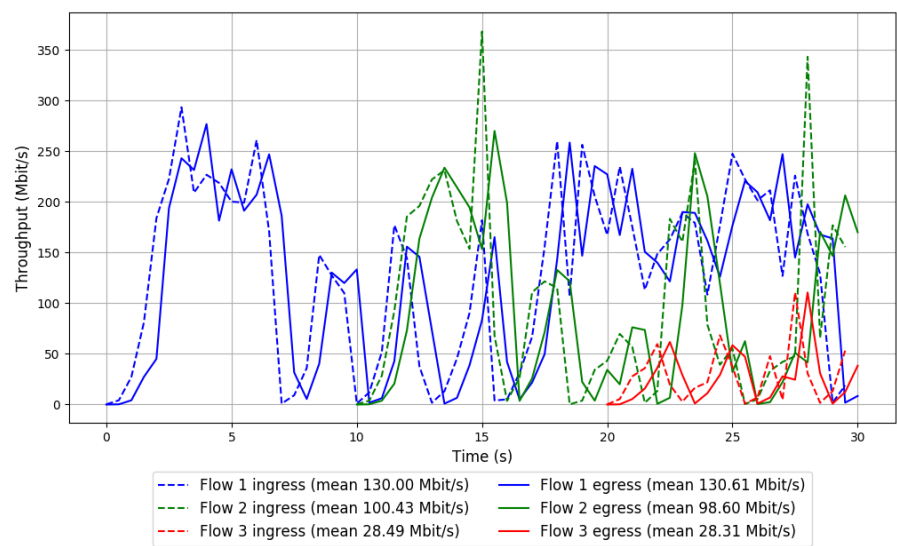
-- Flow 3:

Average throughput: 28.31 Mbit/s

95th percentile per-packet one-way delay: 90.618 ms

Loss rate: 2.97%

Run 4: Report of Verus — Data Link

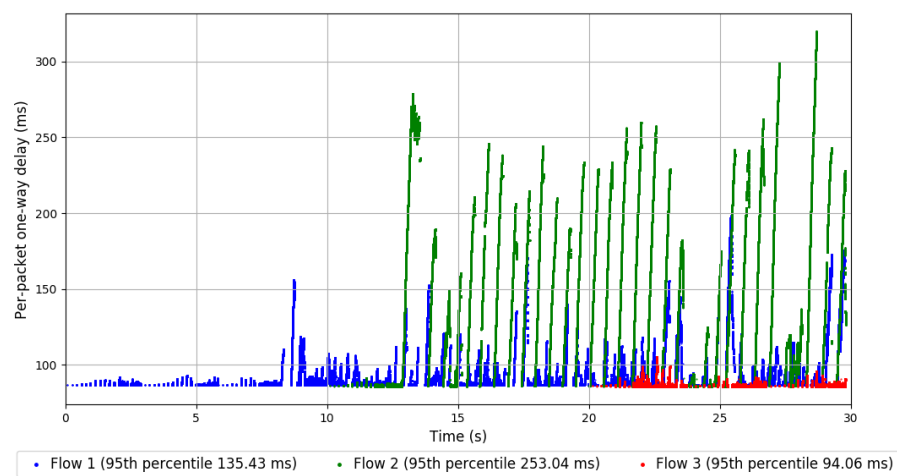
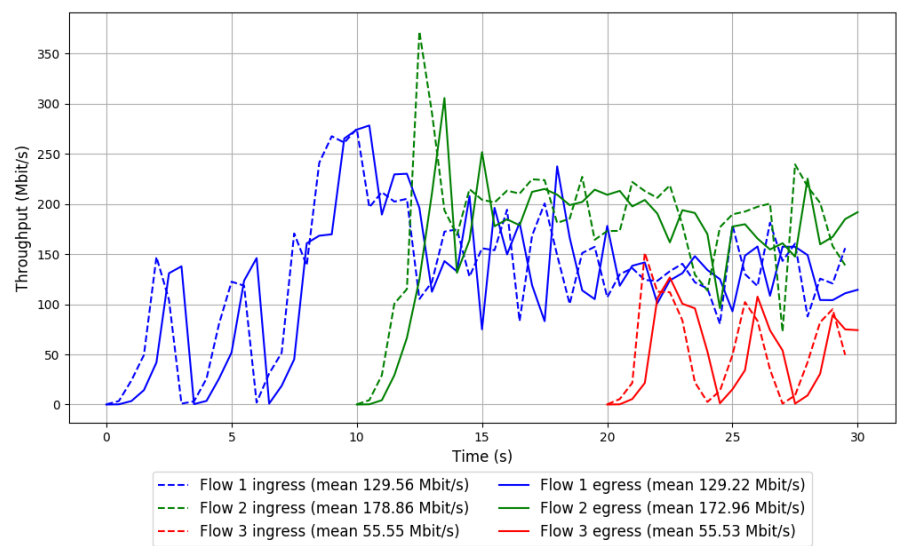


Run 5: Statistics of Verus

Start at: 2018-11-30 10:51:03
End at: 2018-11-30 10:51:33
Local clock offset: -0.02 ms
Remote clock offset: -0.088 ms

Below is generated by plot.py at 2018-11-30 13:50:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 261.84 Mbit/s
95th percentile per-packet one-way delay: 233.641 ms
Loss rate: 2.54%
-- Flow 1:
Average throughput: 129.22 Mbit/s
95th percentile per-packet one-way delay: 135.425 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 172.96 Mbit/s
95th percentile per-packet one-way delay: 253.037 ms
Loss rate: 4.42%
-- Flow 3:
Average throughput: 55.53 Mbit/s
95th percentile per-packet one-way delay: 94.063 ms
Loss rate: 0.00%

Run 5: Report of Verus — Data Link

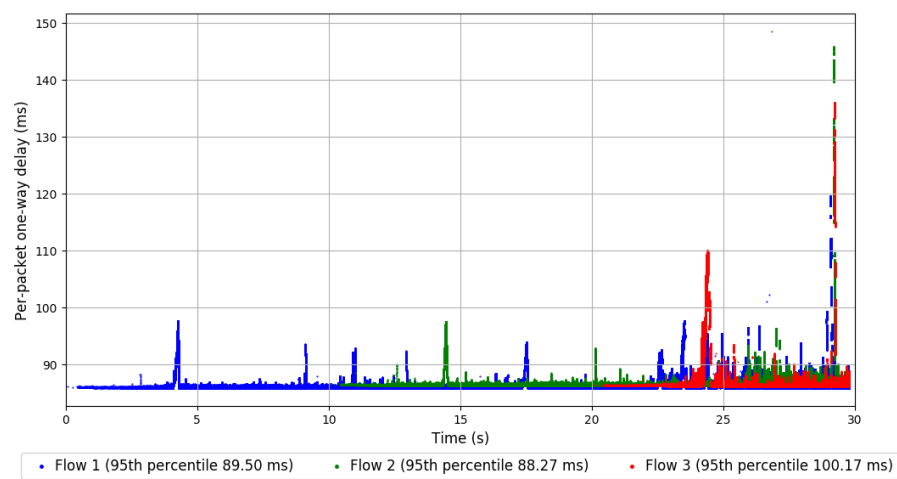
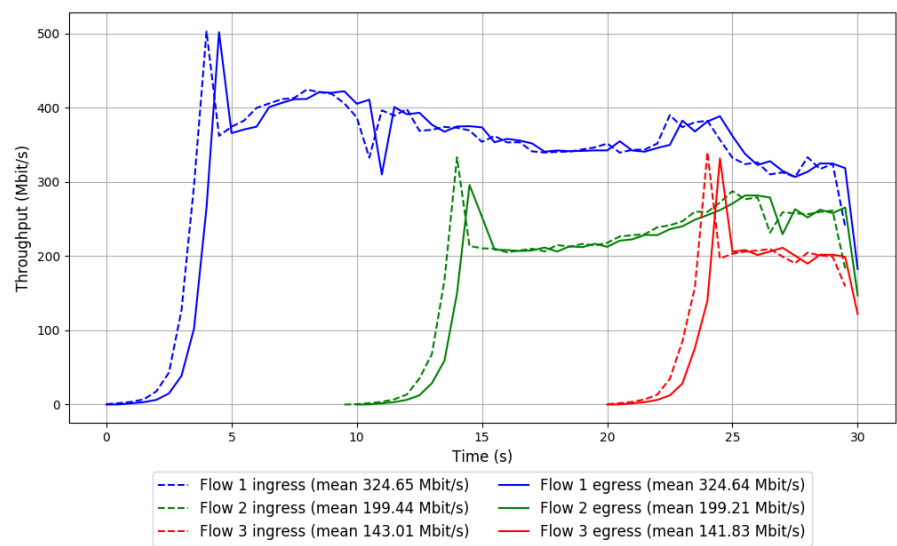


Run 1: Statistics of PCC-Vivace

Start at: 2018-11-30 08:26:41
End at: 2018-11-30 08:27:11
Local clock offset: -0.015 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2018-11-30 13:50:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 503.06 Mbit/s
95th percentile per-packet one-way delay: 89.525 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 324.64 Mbit/s
95th percentile per-packet one-way delay: 89.502 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 199.21 Mbit/s
95th percentile per-packet one-way delay: 88.266 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 141.83 Mbit/s
95th percentile per-packet one-way delay: 100.165 ms
Loss rate: 2.58%

Run 1: Report of PCC-Vivace — Data Link

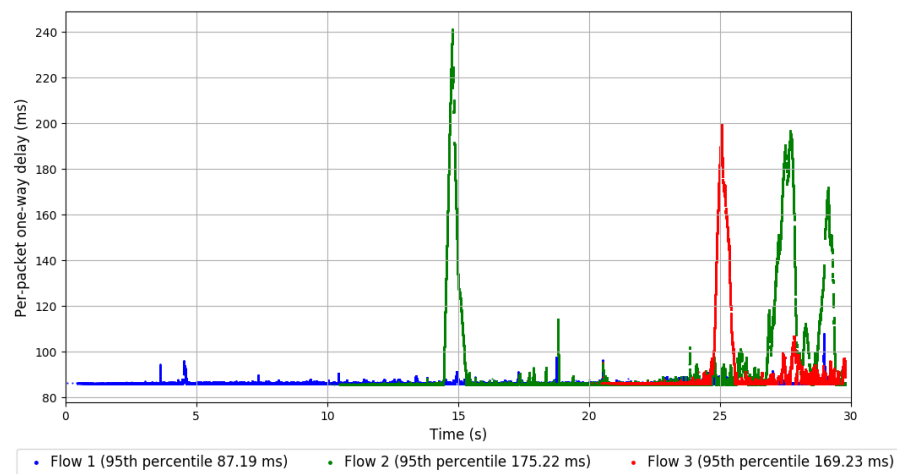
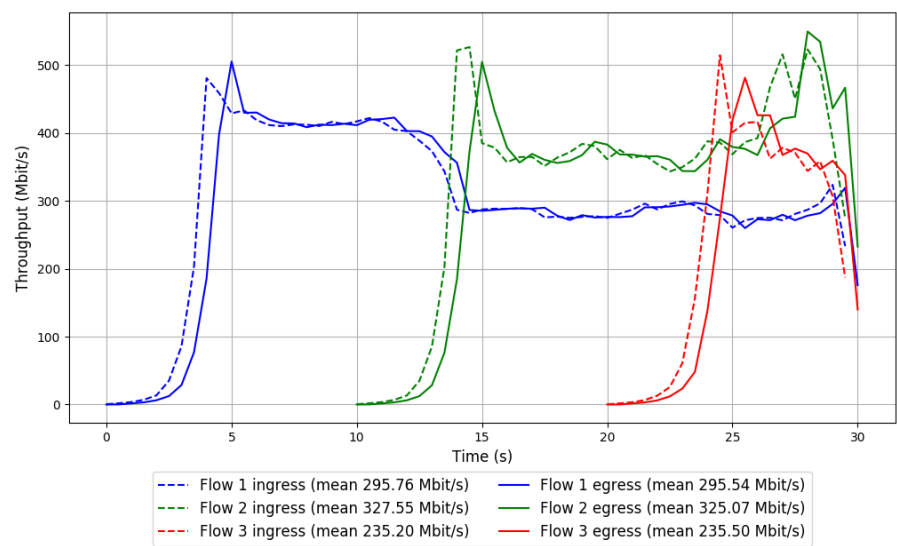


Run 2: Statistics of PCC-Vivace

Start at: 2018-11-30 09:01:15
End at: 2018-11-30 09:01:45
Local clock offset: -0.534 ms
Remote clock offset: -0.036 ms

Below is generated by plot.py at 2018-11-30 13:51:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 587.83 Mbit/s
95th percentile per-packet one-way delay: 144.443 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 295.54 Mbit/s
95th percentile per-packet one-way delay: 87.187 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 325.07 Mbit/s
95th percentile per-packet one-way delay: 175.224 ms
Loss rate: 1.62%
-- Flow 3:
Average throughput: 235.50 Mbit/s
95th percentile per-packet one-way delay: 169.229 ms
Loss rate: 1.64%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-11-30 09:35:59

End at: 2018-11-30 09:36:29

Local clock offset: -1.05 ms

Remote clock offset: -0.11 ms

Below is generated by plot.py at 2018-11-30 13:52:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 480.22 Mbit/s

95th percentile per-packet one-way delay: 92.060 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 310.70 Mbit/s

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

Loss rate: 0.57%

-- Flow 2:

Average throughput: 214.38 Mbit/s

95th percentile per-packet one-way delay: 89.432 ms

Loss rate: 1.15%

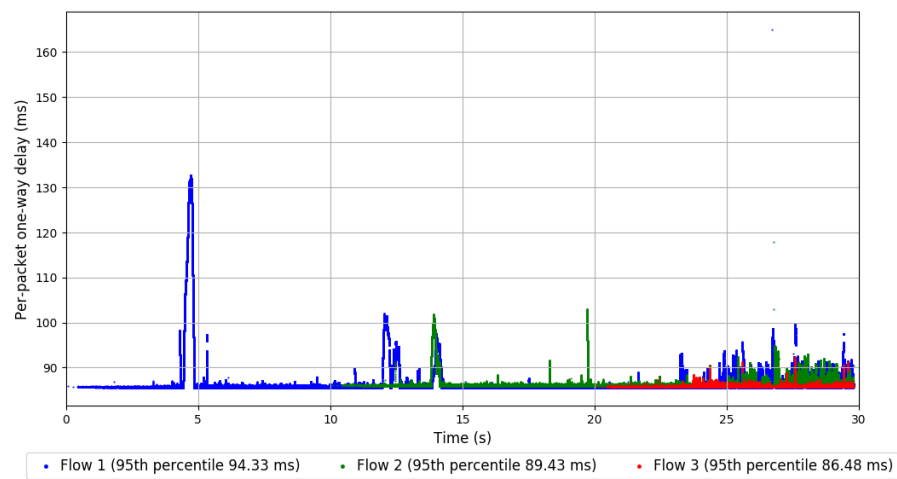
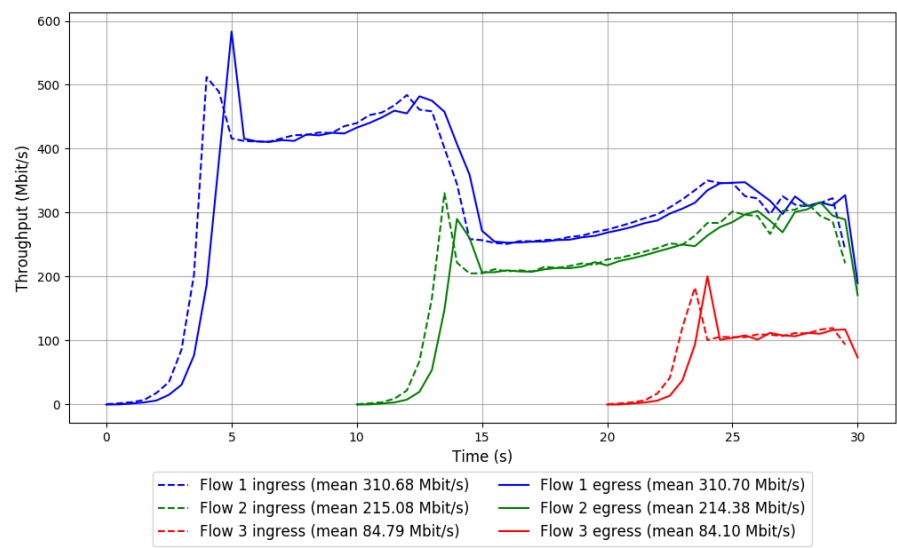
-- Flow 3:

Average throughput: 84.10 Mbit/s

95th percentile per-packet one-way delay: 86.485 ms

Loss rate: 2.54%

Run 3: Report of PCC-Vivace — Data Link

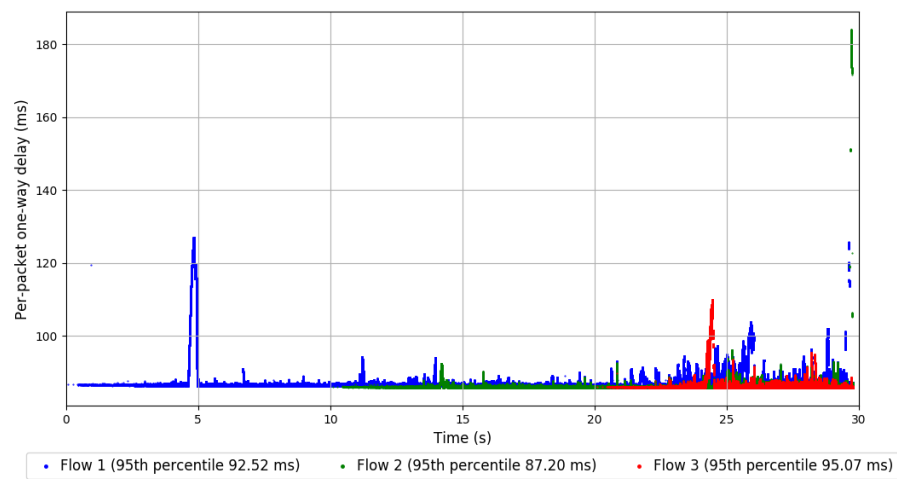
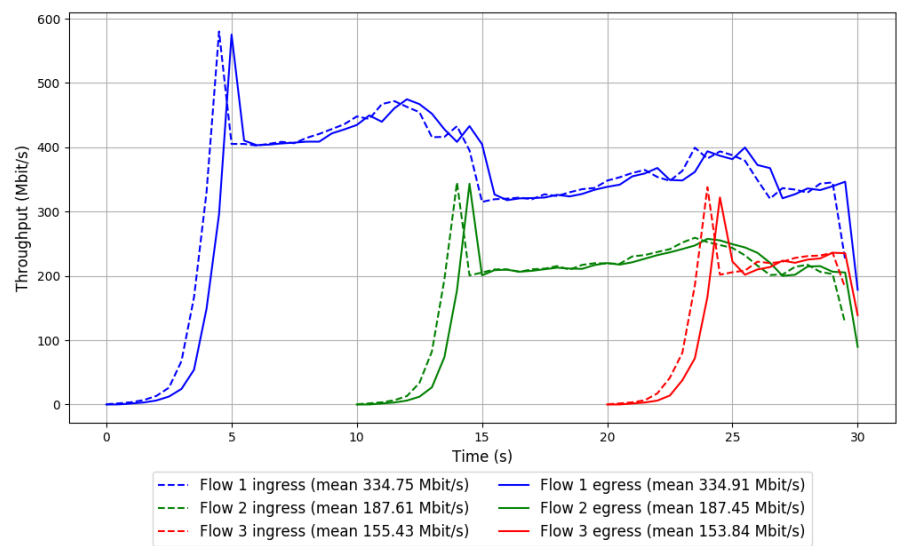


Run 4: Statistics of PCC-Vivace

Start at: 2018-11-30 10:10:07
End at: 2018-11-30 10:10:37
Local clock offset: -0.759 ms
Remote clock offset: -0.085 ms

Below is generated by plot.py at 2018-11-30 13:52:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 509.29 Mbit/s
95th percentile per-packet one-way delay: 91.383 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 334.91 Mbit/s
95th percentile per-packet one-way delay: 92.515 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 187.45 Mbit/s
95th percentile per-packet one-way delay: 87.198 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 153.84 Mbit/s
95th percentile per-packet one-way delay: 95.069 ms
Loss rate: 2.77%

Run 4: Report of PCC-Vivace — Data Link

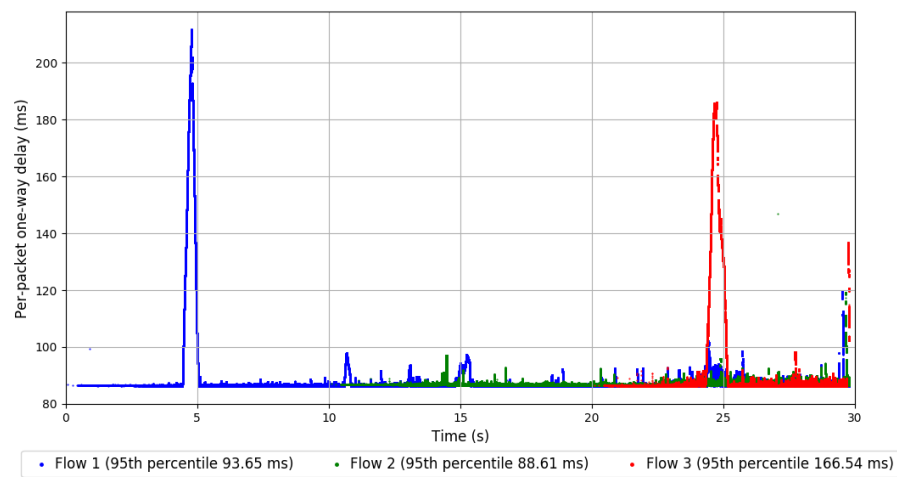
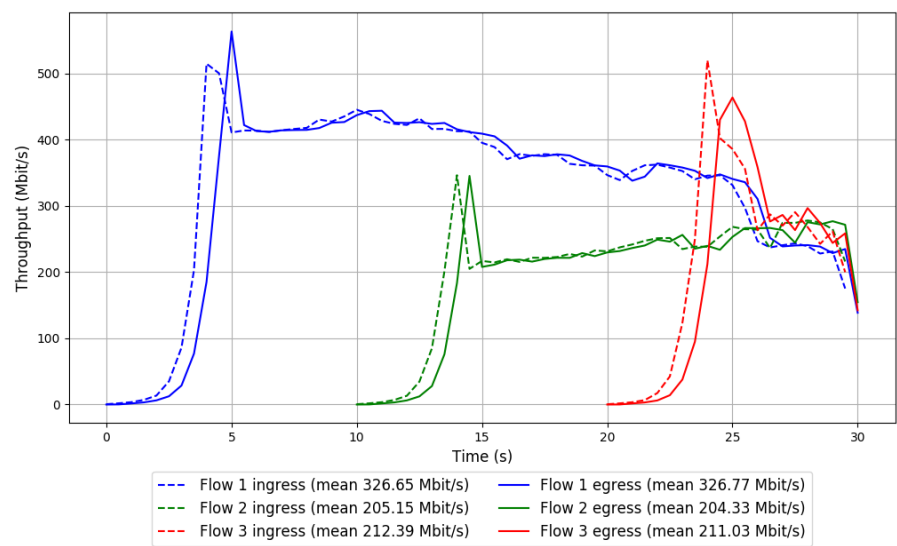


Run 5: Statistics of PCC-Vivace

Start at: 2018-11-30 10:44:46
End at: 2018-11-30 10:45:16
Local clock offset: -0.014 ms
Remote clock offset: -0.048 ms

Below is generated by plot.py at 2018-11-30 13:52:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 531.10 Mbit/s
95th percentile per-packet one-way delay: 95.706 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 326.77 Mbit/s
95th percentile per-packet one-way delay: 93.648 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 204.33 Mbit/s
95th percentile per-packet one-way delay: 88.614 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 211.03 Mbit/s
95th percentile per-packet one-way delay: 166.542 ms
Loss rate: 2.39%

Run 5: Report of PCC-Vivace — Data Link

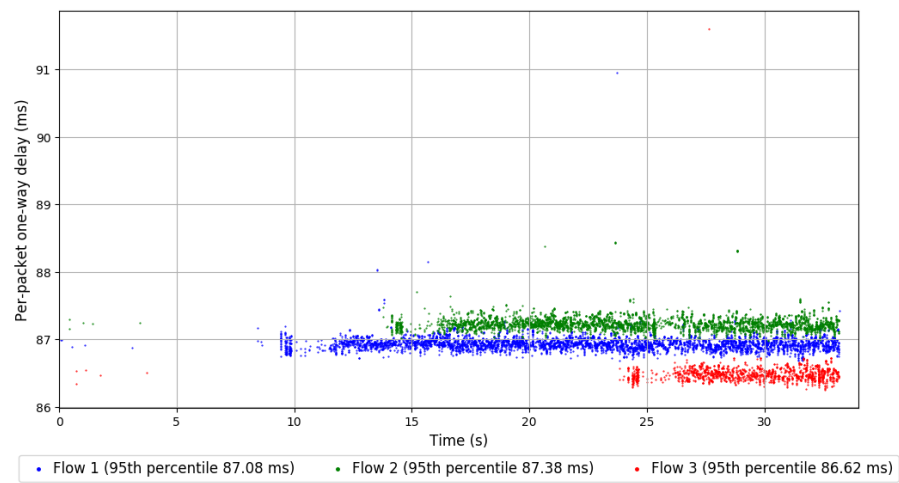
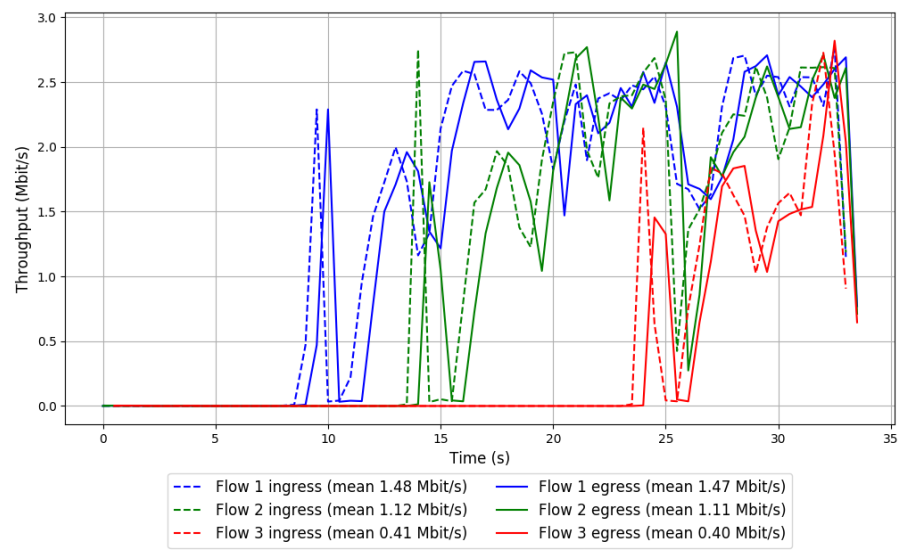


Run 1: Statistics of WebRTC media

Start at: 2018-11-30 08:41:07
End at: 2018-11-30 08:41:37
Local clock offset: 0.275 ms
Remote clock offset: -0.041 ms

Below is generated by plot.py at 2018-11-30 13:52:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.97 Mbit/s
95th percentile per-packet one-way delay: 87.321 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: 87.075 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 1.11 Mbit/s
95th percentile per-packet one-way delay: 87.382 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 86.622 ms
Loss rate: 2.43%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-11-30 09:15:45

End at: 2018-11-30 09:16:15

Local clock offset: -0.687 ms

Remote clock offset: -0.08 ms

Below is generated by plot.py at 2018-11-30 13:52:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.35 Mbit/s

95th percentile per-packet one-way delay: 86.525 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 86.338 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 1.12 Mbit/s

95th percentile per-packet one-way delay: 86.610 ms

Loss rate: 1.27%

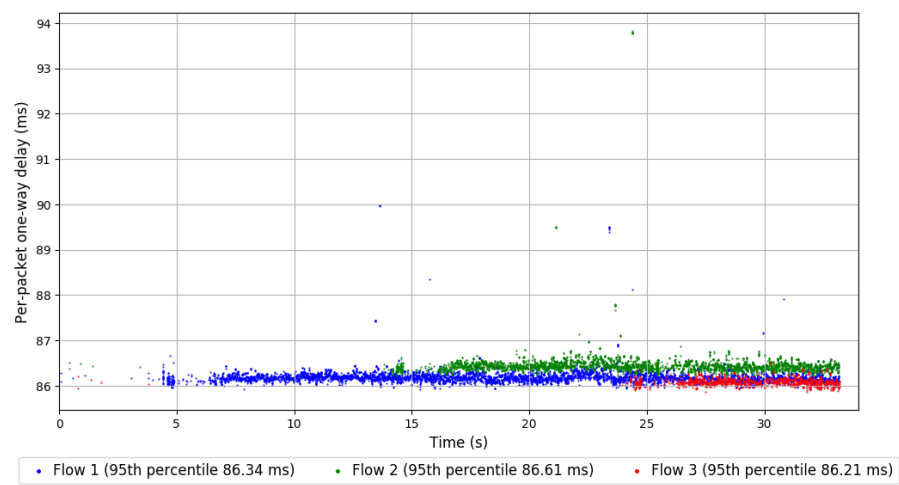
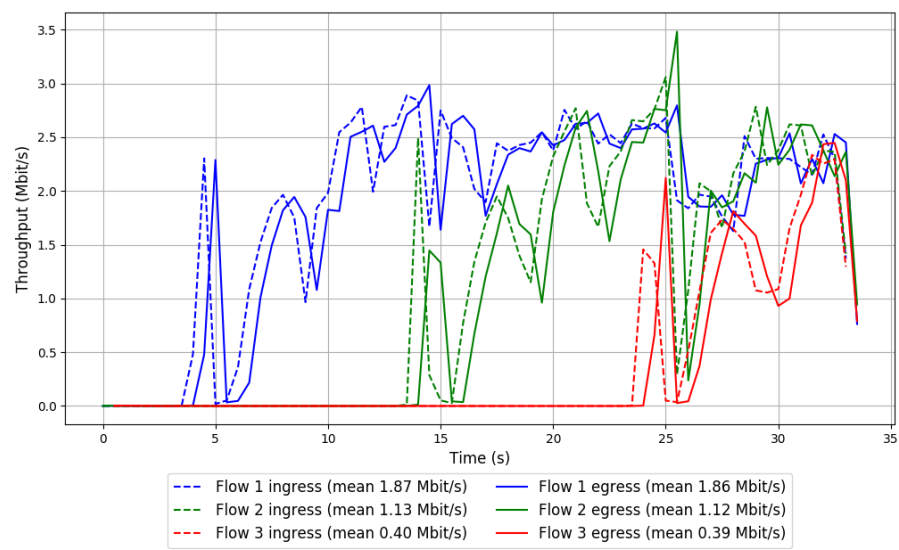
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 86.214 ms

Loss rate: 2.98%

Run 2: Report of WebRTC media — Data Link

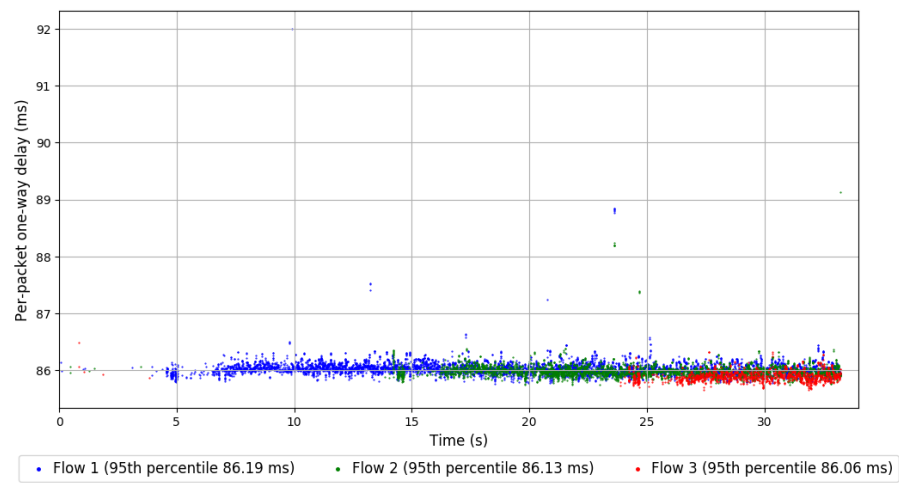
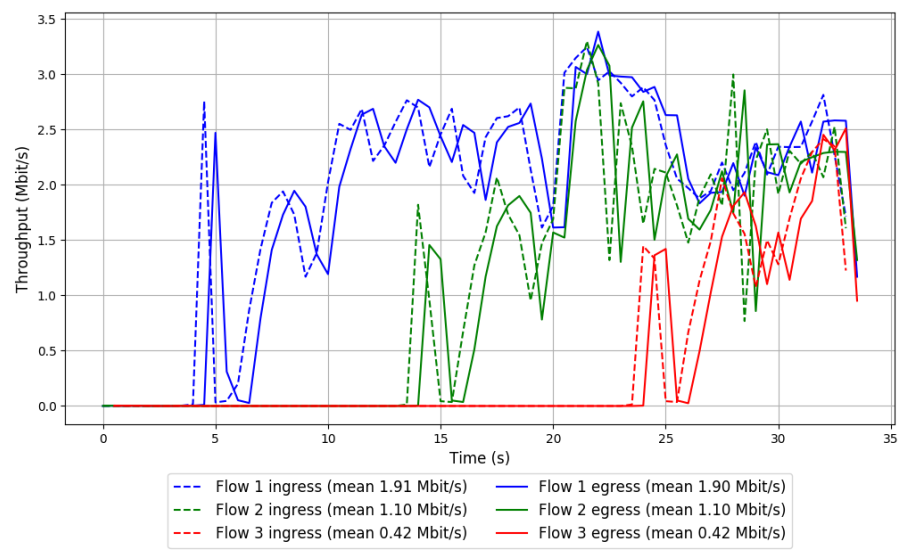


Run 3: Statistics of WebRTC media

Start at: 2018-11-30 09:50:42
End at: 2018-11-30 09:51:12
Local clock offset: -1.048 ms
Remote clock offset: -0.136 ms

Below is generated by plot.py at 2018-11-30 13:52:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.39 Mbit/s
95th percentile per-packet one-way delay: 86.162 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 86.186 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 1.10 Mbit/s
95th percentile per-packet one-way delay: 86.131 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 86.058 ms
Loss rate: 1.98%

Run 3: Report of WebRTC media — Data Link

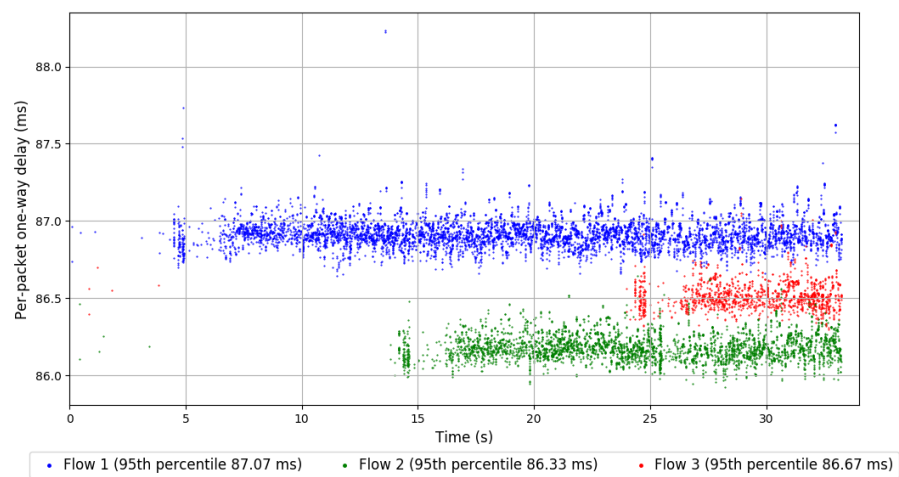
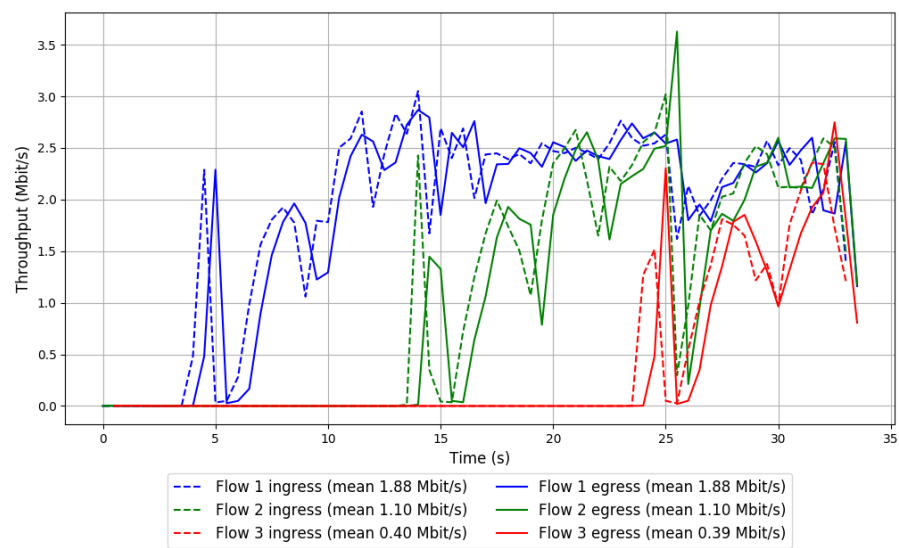


Run 4: Statistics of WebRTC media

Start at: 2018-11-30 10:24:26
End at: 2018-11-30 10:24:56
Local clock offset: -0.679 ms
Remote clock offset: -0.038 ms

Below is generated by plot.py at 2018-11-30 13:52:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.34 Mbit/s
95th percentile per-packet one-way delay: 87.035 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 87.071 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 1.10 Mbit/s
95th percentile per-packet one-way delay: 86.335 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 86.666 ms
Loss rate: 2.58%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-11-30 10:59:31
End at: 2018-11-30 11:00:01
Local clock offset: 0.101 ms
Remote clock offset: -0.101 ms

Below is generated by plot.py at 2018-11-30 13:52:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.37 Mbit/s
95th percentile per-packet one-way delay: 86.783 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 1.91 Mbit/s
95th percentile per-packet one-way delay: 86.141 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 1.09 Mbit/s
95th percentile per-packet one-way delay: 86.873 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 86.025 ms
Loss rate: 2.08%

Run 5: Report of WebRTC media — Data Link

