Pantheon Report

Generated at 2018-10-10 05:31:16 (UTC).
Data path: GCE Sydney on ens4 (local) → GCE London on ens4 (remote).
Repeated the test of 18 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against time.google.com and have been applied to correct the timestamps in logs.

System info:
Linux 4.15.0-1021-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 @ 2e19c0464530faa92c63f8217c9971438a26a3be
third_party/fillp @ 5332fc9127c63565c13f4933b336c02d1aabdc6
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdf90c077e64d
third_party/indigo-96d2da3 @ 8413272d46f8aa0bcb967ed7048b6a8f994abb95
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 65ac1b19bbefed0c6349ae986009b4fa8643c40a
third_party/pantheon-tunnel @ f86663f58d27afd942717625e3e3a354cc2e802bd
third_party/pcc @ 1af958fa06d6d18b23c091a55f6c872b4981e1
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-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cf42
third_party/scream-reproduce @ f099118d121aa3131bf11ff9164974e1da3db3
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f919a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ 4db447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
test from GCE Sydney to GCE London, 5 runs of 30s each per scheme
(mean of all runs by scheme)
<table>
<thead>
<tr>
<th>scheme</th>
<th># runs</th>
<th>mean avg tput (Mbit/s)</th>
<th>mean 95th-%ile delay (ms)</th>
<th>mean loss rate (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TCP BBR</td>
<td>5</td>
<td>228.14</td>
<td>139.47</td>
<td>0.00</td>
</tr>
<tr>
<td>Copa</td>
<td>5</td>
<td>277.26</td>
<td>195.75</td>
<td>0.02</td>
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<td>TCP Cubic</td>
<td>5</td>
<td>235.10</td>
<td>139.14</td>
<td>0.00</td>
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<td>FillP</td>
<td>5</td>
<td>724.21</td>
<td>212.16</td>
<td>4.93</td>
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<td>Indigo</td>
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<td>160.72</td>
<td>140.09</td>
<td>0.00</td>
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<tr>
<td>Indigo-96d2da3</td>
<td>5</td>
<td>270.09</td>
<td>186.72</td>
<td>0.05</td>
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<tr>
<td>LEBAT</td>
<td>5</td>
<td>4.83</td>
<td>140.52</td>
<td>0.00</td>
</tr>
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<td>Indigo-Muses</td>
<td>5</td>
<td>518.01</td>
<td>202.82</td>
<td>0.31</td>
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<tr>
<td>PCC-Allegro</td>
<td>5</td>
<td>334.20</td>
<td>225.00</td>
<td>3.98</td>
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<tr>
<td>PCC-Expr</td>
<td>5</td>
<td>248.62</td>
<td>233.95</td>
<td>4.42</td>
</tr>
<tr>
<td>QUIC Cubic</td>
<td>5</td>
<td>50.63</td>
<td>138.73</td>
<td>0.00</td>
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<tr>
<td>SCReAM</td>
<td>5</td>
<td>0.22</td>
<td>138.91</td>
<td>0.00</td>
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<tr>
<td>Sprout</td>
<td>5</td>
<td>0.50</td>
<td>139.24</td>
<td>0.00</td>
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<td>TaoVA-100x</td>
<td>5</td>
<td>123.03</td>
<td>142.81</td>
<td>0.00</td>
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<td>TCP Vegas</td>
<td>5</td>
<td>234.94</td>
<td>139.30</td>
<td>0.00</td>
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<tr>
<td>Verus</td>
<td>5</td>
<td>137.24</td>
<td>269.80</td>
<td>6.05</td>
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<tr>
<td>PCC-Vivace</td>
<td>5</td>
<td>262.52</td>
<td>218.49</td>
<td>1.17</td>
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<tr>
<td>WebRTC media</td>
<td>5</td>
<td>1.84</td>
<td>139.51</td>
<td>0.00</td>
</tr>
</tbody>
</table>
Run 1: Statistics of TCP BBR

Start at: 2018-10-10 02:27:45
End at: 2018-10-10 02:28:15
Local clock offset: -0.143 ms
Remote clock offset: -0.183 ms

# Below is generated by plot.py at 2018-10-10 04:40:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 227.68 Mbit/s
95th percentile per-packet one-way delay: 139.774 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 227.68 Mbit/s
95th percentile per-packet one-way delay: 139.774 ms
Loss rate: 0.00%
Run 1: Report of TCP BBR — Data Link
Run 2: Statistics of TCP BBR

Start at: 2018-10-10 02:53:08
End at: 2018-10-10 02:53:39
Local clock offset: -0.043 ms
Remote clock offset: -0.118 ms

# Below is generated by plot.py at 2018-10-10 04:40:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 228.81 Mbit/s
95th percentile per-packet one-way delay: 140.221 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 228.81 Mbit/s
95th percentile per-packet one-way delay: 140.221 ms
Loss rate: 0.00%
Run 2: Report of TCP BBR — Data Link

![Graph 1: Throughput Over Time](image1)

- **Flow 1 ingress (mean 228.81 Mbit/s)**
- **Flow 1 egress (mean 228.81 Mbit/s)**

![Graph 2: Per-Packet One-Way Delay](image2)

- **Flow 1 (95th percentile 140.22 ms)**
Run 3: Statistics of TCP BBR

Start at: 2018-10-10 03:18:27
End at: 2018-10-10 03:18:57
Local clock offset: 0.045 ms
Remote clock offset: -0.181 ms

# Below is generated by plot.py at 2018-10-10 04:40:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 229.54 Mbit/s
95th percentile per-packet one-way delay: 139.800 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 229.54 Mbit/s
95th percentile per-packet one-way delay: 139.800 ms
Loss rate: 0.00%
Run 3: Report of TCP BBR — Data Link

![Graph of throughput over time showing flucuations in bandwidth usage.](image1)

![Graph of packet round-trip delay over time showing low and variable delays.](image2)

- Flow 1 ingress (mean 229.54 Mbit/s)
- Flow 1 egress (mean 229.54 Mbit/s)
- Flow 1 (95th percentile 139.80 ms)
Run 4: Statistics of TCP BBR

Start at: 2018-10-10 03:43:47
End at: 2018-10-10 03:44:17
Local clock offset: -0.12 ms
Remote clock offset: -0.205 ms

# Below is generated by plot.py at 2018-10-10 04:40:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 224.89 Mbit/s
95th percentile per-packet one-way delay: 139.840 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 224.89 Mbit/s
95th percentile per-packet one-way delay: 139.840 ms
Loss rate: 0.00%
Run 4: Report of TCP BBR — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 224.89 Mbit/s)
- Flow 1 egress (mean 224.89 Mbit/s)

![Graph 2: Per packet one-way delay (ms)]

- Flow 1 (95th percentile 139.84 ms)
Run 5: Statistics of TCP BBR

Start at: 2018-10-10 04:09:38
End at: 2018-10-10 04:10:08
Local clock offset: -0.179 ms
Remote clock offset: -0.221 ms

# Below is generated by plot.py at 2018-10-10 04:40:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 229.79 Mbit/s
95th percentile per-packet one-way delay: 137.737 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 229.79 Mbit/s
95th percentile per-packet one-way delay: 137.737 ms
Loss rate: 0.00%
Run 5: Report of TCP BBR — Data Link

![Graph showing throughput and delay over time for TCP BBR]
Run 1: Statistics of Copa

Start at: 2018-10-10 02:29:09
End at: 2018-10-10 02:29:39
Local clock offset: -0.101 ms
Remote clock offset: -0.214 ms

# Below is generated by plot.py at 2018-10-10 04:45:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 293.59 Mbit/s
95th percentile per-packet one-way delay: 251.021 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 293.59 Mbit/s
95th percentile per-packet one-way delay: 251.021 ms
Loss rate: 0.07%
Run 1: Report of Copa — Data Link
Run 2: Statistics of Copa

Start at: 2018-10-10 02:54:31
End at: 2018-10-10 02:55:01
Local clock offset: -0.093 ms
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2018-10-10 04:45:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 290.69 Mbit/s
95th percentile per-packet one-way delay: 154.594 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 290.69 Mbit/s
95th percentile per-packet one-way delay: 154.594 ms
Loss rate: 0.00%
Run 2: Report of Copa — Data Link
Run 3: Statistics of Copa

Start at: 2018-10-10 03:19:50
End at: 2018-10-10 03:20:20
Local clock offset: -0.015 ms
Remote clock offset: -0.2 ms

# Below is generated by plot.py at 2018-10-10 04:45:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 284.80 Mbit/s
95th percentile per-packet one-way delay: 150.314 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 284.80 Mbit/s
95th percentile per-packet one-way delay: 150.314 ms
Loss rate: 0.00%
Run 3: Report of Copa — Data Link

![Graph of throughput and packet delay over time](image-url)
Run 4: Statistics of Copa

Start at: 2018-10-10 03:45:10
End at: 2018-10-10 03:45:40
Local clock offset: -0.103 ms
Remote clock offset: -0.548 ms

# Below is generated by plot.py at 2018-10-10 04:48:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 267.97 Mbit/s
95th percentile per-packet one-way delay: 226.497 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 267.97 Mbit/s
95th percentile per-packet one-way delay: 226.497 ms
Loss rate: 0.00%
Run 4: Report of Copa — Data Link

![Graph of throughput and packet delay over time](image)

- **Flow 1 ingress (mean 267.97 Mbit/s)**
- **Flow 1 egress (mean 267.97 Mbit/s)**

- **Flow 1 (95th percentile 226.50 ms)**
Run 5: Statistics of Copa

Start at: 2018-10-10 04:11:01
End at: 2018-10-10 04:11:31
Local clock offset: -0.194 ms
Remote clock offset: 0.161 ms

# Below is generated by plot.py at 2018-10-10 04:48:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 249.27 Mbit/s
95th percentile per-packet one-way delay: 196.312 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 249.27 Mbit/s
95th percentile per-packet one-way delay: 196.312 ms
Loss rate: 0.01%
Run 5: Report of Copa — Data Link

![Graph showing throughput and packet delay over time]

- Flow 1 ingress (mean 249.30 Mbit/s)
- Flow 1 egress (mean 249.27 Mbit/s)

![Graph showing packet delay in milliseconds over time]

- Flow 1 (95th percentile 196.31 ms)
Run 1: Statistics of TCP Cubic

Start at: 2018-10-10 02:30:49
End at: 2018-10-10 02:31:19
Local clock offset: 0.032 ms
Remote clock offset: 0.17 ms

# Below is generated by plot.py at 2018-10-10 04:48:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 234.07 Mbit/s
95th percentile per-packet one-way delay: 139.395 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 234.07 Mbit/s
95th percentile per-packet one-way delay: 139.395 ms
Loss rate: 0.00%
Run 1: Report of TCP Cubic — Data Link

![Throughput Chart]

- Flow 1 ingress (mean 234.07 Mbit/s)
- Flow 1 egress (mean 234.07 Mbit/s)

![Delay Chart]

- Flow 1 (95th percentile 139.40 ms)
Run 2: Statistics of TCP Cubic

Start at: 2018-10-10 02:56:12
End at: 2018-10-10 02:56:42
Local clock offset: 0.092 ms
Remote clock offset: -0.457 ms

# Below is generated by plot.py at 2018-10-10 04:48:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 234.90 Mbit/s
95th percentile per-packet one-way delay: 139.959 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 234.90 Mbit/s
95th percentile per-packet one-way delay: 139.959 ms
Loss rate: 0.00%
Run 2: Report of TCP Cubic — Data Link

![Graph showing throughput over time for Flow 1 ingress and egress with different mean values.]

![Graph showing per-packet round-trip delay for Flow 1 with a 95th percentile of 139.96 ms.]
Run 3: Statistics of TCP Cubic

Start at: 2018-10-10 03:21:30
End at: 2018-10-10 03:22:00
Local clock offset: -0.061 ms
Remote clock offset: -0.201 ms

# Below is generated by plot.py at 2018-10-10 04:48:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 236.45 Mbit/s
95th percentile per-packet one-way delay: 138.285 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 236.45 Mbit/s
95th percentile per-packet one-way delay: 138.285 ms
Loss rate: 0.00%
Run 3: Report of TCP Cubic — Data Link

![Graph showing throughput and delay over time](image-url)

- Flow 1 ingress (mean 236.46 Mbit/s)
- Flow 1 egress (mean 236.45 Mbit/s)

![Graph showing round-trip time over time](image-url)

- Flow 1 (95th percentile 138.28 ms)
Run 4: Statistics of TCP Cubic

Start at: 2018-10-10 03:46:49
End at: 2018-10-10 03:47:19
Local clock offset: 0.13 ms
Remote clock offset: -0.172 ms

# Below is generated by plot.py at 2018-10-10 04:48:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 235.77 Mbit/s
95th percentile per-packet one-way delay: 137.833 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 235.77 Mbit/s
95th percentile per-packet one-way delay: 137.833 ms
Loss rate: 0.00%
Run 4: Report of TCP Cubic — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 2.3578 Mbps)
- Flow 1 egress (mean 2.3577 Mbps)

![Graph 2: Round-trip time (ms)]

- Flow 1 (95th percentile 137.83 ms)
Run 5: Statistics of TCP Cubic

Start at: 2018-10-10 04:12:38
End at: 2018-10-10 04:13:08
Local clock offset: -0.227 ms
Remote clock offset: 0.131 ms

# Below is generated by plot.py at 2018-10-10 04:48:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 234.29 Mbit/s
95th percentile per-packet one-way delay: 140.227 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 234.29 Mbit/s
95th percentile per-packet one-way delay: 140.227 ms
Loss rate: 0.00%
Run 5: Report of TCP Cubic — Data Link

![Graph showing network throughput and per-packet one-way delay](image)

- **Flow 1 ingress (mean 234.29 Mbit/s)**
- **Flow 1 egress (mean 234.29 Mbit/s)**

![Graph showing network throughput and per-packet one-way delay](image)

- **Flow 1 (95th percentile 140.23 ms)**
Run 1: Statistics of FillP

Start at: 2018-10-10 02:23:39
End at: 2018-10-10 02:24:09
Local clock offset: -0.015 ms
Remote clock offset: -0.217 ms

# Below is generated by plot.py at 2018-10-10 04:58:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 704.17 Mbit/s
95th percentile per-packet one-way delay: 211.681 ms
Loss rate: 4.31%
-- Flow 1:
Average throughput: 704.17 Mbit/s
95th percentile per-packet one-way delay: 211.681 ms
Loss rate: 4.31%
Run 1: Report of FillP — Data Link

[Graph showing throughput over time with two lines representing ingress and egress flows, and another graph showing packet delay with the 95th percentile labeled.]
Run 2: Statistics of FillP

Start at: 2018-10-10 02:48:57
End at: 2018-10-10 02:49:27
Local clock offset: -0.032 ms
Remote clock offset: -0.136 ms

# Below is generated by plot.py at 2018-10-10 05:02:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 787.07 Mbit/s
95th percentile per-packet one-way delay: 200.479 ms
Loss rate: 2.95%
-- Flow 1:
Average throughput: 787.07 Mbit/s
95th percentile per-packet one-way delay: 200.479 ms
Loss rate: 2.95%
Run 2: Report of FillP — Data Link
Run 3: Statistics of FillP

Start at: 2018-10-10 03:14:20
End at: 2018-10-10 03:14:50
Local clock offset: -0.052 ms
Remote clock offset: -0.204 ms

# Below is generated by plot.py at 2018-10-10 05:02:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 699.74 Mbit/s
95th percentile per-packet one-way delay: 214.718 ms
Loss rate: 4.35%
-- Flow 1:
Average throughput: 699.74 Mbit/s
95th percentile per-packet one-way delay: 214.718 ms
Loss rate: 4.35%
Run 3: Report of FillP — Data Link
Run 4: Statistics of FillP

Start at: 2018-10-10 03:39:41
End at: 2018-10-10 03:40:11
Local clock offset: -0.039 ms
Remote clock offset: -0.205 ms

# Below is generated by plot.py at 2018-10-10 05:02:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 665.33 Mbit/s
95th percentile per-packet one-way delay: 230.650 ms
Loss rate: 8.96%
-- Flow 1:
Average throughput: 665.33 Mbit/s
95th percentile per-packet one-way delay: 230.650 ms
Loss rate: 8.96%
Run 4: Report of FillP — Data Link
Run 5: Statistics of FillP

Start at: 2018-10-10 04:05:29
End at: 2018-10-10 04:05:59
Local clock offset: -0.338 ms
Remote clock offset: 0.158 ms

# Below is generated by plot.py at 2018-10-10 05:04:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 764.75 Mbit/s
95th percentile per-packet one-way delay: 203.282 ms
Loss rate: 4.07%
-- Flow 1:
Average throughput: 764.75 Mbit/s
95th percentile per-packet one-way delay: 203.282 ms
Loss rate: 4.07%
Run 5: Report of FillP — Data Link

![Throughput Graph]

- Flow 1 ingress (mean 797.22 Mbit/s)
- Flow 1 egress (mean 764.75 Mbit/s)

![Packet Delay Graph]

- Flow 1 (95th percentile 203.28 ms)
Run 1: Statistics of Indigo

Start at: 2018-10-10 02:33:43
End at: 2018-10-10 02:34:13
Local clock offset: 0.083 ms
Remote clock offset: -0.153 ms

# Below is generated by plot.py at 2018-10-10 05:04:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 109.40 Mbit/s
95th percentile per-packet one-way delay: 139.646 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 109.40 Mbit/s
95th percentile per-packet one-way delay: 139.646 ms
Loss rate: 0.00%
Run 1: Report of Indigo — Data Link
Run 2: Statistics of Indigo

Start at: 2018-10-10 02:59:11
End at: 2018-10-10 02:59:41
Local clock offset: -0.086 ms
Remote clock offset: -0.499 ms

# Below is generated by plot.py at 2018-10-10 05:04:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 167.04 Mbit/s
95th percentile per-packet one-way delay: 140.025 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 167.04 Mbit/s
95th percentile per-packet one-way delay: 140.025 ms
Loss rate: 0.01%
Run 2: Report of Indigo — Data Link

![Graph showing throughput vs time for flow ingress and egress.]

![Graph showing per packet one-way delay vs time for flow 1.]

Flow 1 ingress (mean 167.04 Mbit/s)
Flow 1 egress (mean 167.04 Mbit/s)
Flow 1 (95th percentile 140.03 ms)
Run 3: Statistics of Indigo

Start at: 2018-10-10 03:24:22
End at: 2018-10-10 03:24:52
Local clock offset: -0.144 ms
Remote clock offset: 0.173 ms

# Below is generated by plot.py at 2018-10-10 05:04:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 171.14 Mbit/s
95th percentile per-packet one-way delay: 140.829 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 171.14 Mbit/s
95th percentile per-packet one-way delay: 140.829 ms
Loss rate: 0.00%
Run 3: Report of Indigo — Data Link
Run 4: Statistics of Indigo

Start at: 2018-10-10 03:49:47
End at: 2018-10-10 03:50:17
Local clock offset: -0.149 ms
Remote clock offset: -0.212 ms

# Below is generated by plot.py at 2018-10-10 05:04:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 178.36 Mbit/s
95th percentile per-packet one-way delay: 140.023 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 178.36 Mbit/s
95th percentile per-packet one-way delay: 140.023 ms
Loss rate: 0.00%
Run 4: Report of Indigo — Data Link
Run 5: Statistics of Indigo

Start at: 2018-10-10 04:15:23
End at: 2018-10-10 04:15:53
Local clock offset: -0.165 ms
Remote clock offset: 0.156 ms

# Below is generated by plot.py at 2018-10-10 05:04:01
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 177.68 Mbit/s
  95th percentile per-packet one-way delay: 139.945 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 177.68 Mbit/s
  95th percentile per-packet one-way delay: 139.945 ms
  Loss rate: 0.00%
Run 5: Report of Indigo — Data Link
Run 1: Statistics of Indigo-96d2da3

Start at: 2018-10-10 02:42:39
End at: 2018-10-10 02:43:09
Local clock offset: -0.052 ms
Remote clock offset: -0.169 ms

# Below is generated by plot.py at 2018-10-10 05:04:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 262.05 Mbit/s
95th percentile per-packet one-way delay: 181.992 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 262.05 Mbit/s
95th percentile per-packet one-way delay: 181.992 ms
Loss rate: 0.00%
Run 1: Report of Indigo-96d2da3 — Data Link

![Graph showing throughput and delay over time for Flow 1 ingress and egress.]
Run 2: Statistics of Indigo-96d2da3

Start at: 2018-10-10 03:08:01
End at: 2018-10-10 03:08:31
Local clock offset: 0.101 ms
Remote clock offset: -0.167 ms

# Below is generated by plot.py at 2018-10-10 05:04:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 260.33 Mbit/s
95th percentile per-packet one-way delay: 182.122 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 260.33 Mbit/s
95th percentile per-packet one-way delay: 182.122 ms
Loss rate: 0.00%
Run 2: Report of Indigo-96d2da3 — Data Link
Run 3: Statistics of Indigo-96d2da3

Start at: 2018-10-10 03:33:22
End at: 2018-10-10 03:33:52
Local clock offset: 0.095 ms
Remote clock offset: -0.218 ms

# Below is generated by plot.py at 2018-10-10 05:04:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 256.26 Mbit/s
95th percentile per-packet one-way delay: 184.427 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 256.26 Mbit/s
95th percentile per-packet one-way delay: 184.427 ms
Loss rate: 0.00%
Run 4: Statistics of Indigo-96d2da3

Start at: 2018-10-10 03:59:08
End at: 2018-10-10 03:59:38
Local clock offset: -0.173 ms
Remote clock offset: 0.174 ms

# Below is generated by plot.py at 2018-10-10 05:04:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 293.18 Mbit/s
95th percentile per-packet one-way delay: 193.206 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 293.18 Mbit/s
95th percentile per-packet one-way delay: 193.206 ms
Loss rate: 0.12%
Run 4: Report of Indigo-96d2da3 — Data Link

![Graph of throughput and packet delay](graph.png)
Run 5: Statistics of Indigo-96d2da3

Start at: 2018-10-10 04:24:46
End at: 2018-10-10 04:25:16
Local clock offset: -0.221 ms
Remote clock offset: -0.598 ms

# Below is generated by plot.py at 2018-10-10 05:04:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 278.63 Mbit/s
95th percentile per-packet one-way delay: 191.833 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 278.63 Mbit/s
95th percentile per-packet one-way delay: 191.833 ms
Loss rate: 0.14%
Run 5: Report of Indigo-96d2da3 — Data Link
Run 1: Statistics of LEDBAT

Start at: 2018-10-10 02:45:13
End at: 2018-10-10 02:45:43
Local clock offset: -0.129 ms
Remote clock offset: -0.162 ms

# Below is generated by plot.py at 2018-10-10 05:04:01
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 4.83 Mbit/s
  95th percentile per-packet one-way delay: 141.368 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 4.83 Mbit/s
  95th percentile per-packet one-way delay: 141.368 ms
  Loss rate: 0.00%
Run 1: Report of LEDBAT — Data Link
Run 2: Statistics of LEDBAT

Start at: 2018-10-10 03:10:36
End at: 2018-10-10 03:11:06
Local clock offset: 0.084 ms
Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2018-10-10 05:04:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.81 Mbit/s
95th percentile per-packet one-way delay: 140.471 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.81 Mbit/s
95th percentile per-packet one-way delay: 140.471 ms
Loss rate: 0.00%
Run 2: Report of LEDBAT — Data Link

![Graph 1: Throughput vs Time](image1)

- Flow 1 ingress (mean 4.81 Mbit/s)
- Flow 1 egress (mean 4.81 Mbit/s)

![Graph 2: Packet Delay vs Time](image2)

- Flow 1 (95th percentile 140.47 ms)
Run 3: Statistics of LEDBAT

Start at: 2018-10-10 03:35:56  
End at: 2018-10-10 03:36:26  
Local clock offset: 0.02 ms  
Remote clock offset: -0.177 ms

# Below is generated by plot.py at 2018-10-10 05:04:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 4.81 Mbit/s  
95th percentile per-packet one-way delay: 140.204 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 4.81 Mbit/s  
95th percentile per-packet one-way delay: 140.204 ms  
Loss rate: 0.00%
Run 3: Report of LEDBAT — Data Link
Run 4: Statistics of LEDBAT

Start at: 2018-10-10 04:01:45
End at: 2018-10-10 04:02:15
Local clock offset: -0.053 ms
Remote clock offset: -0.188 ms

# Below is generated by plot.py at 2018-10-10 05:04:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.81 Mbit/s
95th percentile per-packet one-way delay: 140.334 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.81 Mbit/s
95th percentile per-packet one-way delay: 140.334 ms
Loss rate: 0.00%
Run 4: Report of LEDBAT — Data Link

![Graph showing throughput and latency over time.](image)

- **Flow 1 ingress (mean 4.81 Mbit/s)**
- **Flow 1 egress (mean 4.81 Mbit/s)**

![Graph showing per-packet one-way delay over time.](image)

- **Flow 1 (95th percentile 140.33 ms)**
Run 5: Statistics of LEDEBAT

Start at: 2018-10-10 04:27:21
End at: 2018-10-10 04:27:51
Local clock offset: -0.082 ms
Remote clock offset: -0.227 ms

# Below is generated by plot.py at 2018-10-10 05:04:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.89 Mbit/s
95th percentile per-packet one-way delay: 140.202 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.89 Mbit/s
95th percentile per-packet one-way delay: 140.202 ms
Loss rate: 0.00%
Run 5: Report of LEDBAT — Data Link

![Graph showing throughput and delay over time](image)

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 4.89 Mbps)
  - Flow 1 egress (mean 4.89 Mbps)

- **Per-packet one-way delay (ms):**

- Flow 1 (95th percentile 140.20 ms)
Run 1: Statistics of Indigo-Muses

Start at: 2018-10-10 02:35:04
End at: 2018-10-10 02:35:35
Local clock offset: -0.006 ms
Remote clock offset: -0.2 ms

# Below is generated by plot.py at 2018-10-10 05:09:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 543.14 Mbit/s
95th percentile per-packet one-way delay: 188.386 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 543.14 Mbit/s
95th percentile per-packet one-way delay: 188.386 ms
Loss rate: 0.13%
Run 1: Report of Indigo-Muses — Data Link
Run 2: Statistics of Indigo-Muses

Start at: 2018-10-10 03:00:38
End at: 2018-10-10 03:01:08
Local clock offset: 0.214 ms
Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2018-10-10 05:09:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 510.68 Mbit/s
95th percentile per-packet one-way delay: 199.298 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 510.68 Mbit/s
95th percentile per-packet one-way delay: 199.298 ms
Loss rate: 0.15%
Run 2: Report of Indigo-Muses — Data Link

![Graph 1: Throughput](image1)

- Flow 1 ingress (mean 511.48 Mbit/s)
- Flow 1 egress (mean 510.68 Mbit/s)

![Graph 2: Per packet one way delay](image2)

- Flow 1 (95th percentile 199.30 ms)
Run 3: Statistics of Indigo-Muses

Start at: 2018-10-10 03:25:51
End at: 2018-10-10 03:26:21
Local clock offset: -0.07 ms
Remote clock offset: -0.218 ms

# Below is generated by plot.py at 2018-10-10 05:09:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 514.15 Mbit/s
95th percentile per-packet one-way delay: 208.088 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 514.15 Mbit/s
95th percentile per-packet one-way delay: 208.088 ms
Loss rate: 0.29%
Run 3: Report of Indigo-Muses — Data Link
Run 4: Statistics of Indigo-Muses

Start at: 2018-10-10 03:51:16
End at: 2018-10-10 03:51:46
Local clock offset: 0.035 ms
Remote clock offset: -0.201 ms

# Below is generated by plot.py at 2018-10-10 05:09:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 498.34 Mbit/s
95th percentile per-packet one-way delay: 210.689 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 498.34 Mbit/s
95th percentile per-packet one-way delay: 210.689 ms
Loss rate: 0.34%
Run 4: Report of Indigo-Muses — Data Link
Run 5: Statistics of Indigo-Muses

Start at: 2018-10-10 04:16:52
End at: 2018-10-10 04:17:22
Local clock offset: -0.168 ms
Remote clock offset: 0.147 ms

# Below is generated by plot.py at 2018-10-10 05:11:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 523.73 Mbit/s
95th percentile per-packet one-way delay: 207.631 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 523.73 Mbit/s
95th percentile per-packet one-way delay: 207.631 ms
Loss rate: 0.63%
Run 5: Report of Indigo-Muses — Data Link
Run 1: Statistics of PCC-Allegro

Start at: 2018-10-10 02:36:44
End at: 2018-10-10 02:37:14
Local clock offset: -0.077 ms
Remote clock offset: -0.136 ms

# Below is generated by plot.py at 2018-10-10 05:14:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 341.19 Mbit/s
95th percentile per-packet one-way delay: 246.187 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 341.19 Mbit/s
95th percentile per-packet one-way delay: 246.187 ms
Loss rate: 1.86%
Run 1: Report of PCC-Allegro — Data Link
Run 2: Statistics of PCC-Allegro

Start at: 2018-10-10 03:02:16
End at: 2018-10-10 03:02:46
Local clock offset: 0.012 ms
Remote clock offset: 0.236 ms

# Below is generated by plot.py at 2018-10-10 05:15:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 355.02 Mbit/s
95th percentile per-packet one-way delay: 256.087 ms
Loss rate: 1.76%
-- Flow 1:
Average throughput: 355.02 Mbit/s
95th percentile per-packet one-way delay: 256.087 ms
Loss rate: 1.76%
Run 2: Report of PCC-Allegro — Data Link

![Graph showing network throughput and delay over time.]

- **Flow 1 ingress (mean 361.37 Mbit/s)**
- **Flow 1 egress (mean 355.02 Mbit/s)**
Run 3: Statistics of PCC-Allegro

Start at: 2018-10-10 03:27:30
End at: 2018-10-10 03:28:00
Local clock offset: 0.086 ms
Remote clock offset: 0.169 ms

# Below is generated by plot.py at 2018-10-10 05:15:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 326.75 Mbit/s
95th percentile per-packet one-way delay: 174.724 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 326.75 Mbit/s
95th percentile per-packet one-way delay: 174.724 ms
Loss rate: 0.94%
Run 3: Report of PCC-Allegro — Data Link

![Graph showing throughput and packet error rates over time.]

- Throughput (Mbps): 0 to 500
- Time (s): 0 to 30
- Flow 1 ingress (mean 329.85 Mbps) vs. Flow 1 egress (mean 326.75 Mbps)

- Packet delay (ms): 0 to 300
- Time (s): 0 to 30
- Flow 1 (95th percentile 174.72 ms)
Run 4: Statistics of PCC-Allegro

Start at: 2018-10-10 03:52:53
End at: 2018-10-10 03:53:24
Local clock offset: ~0.076 ms
Remote clock offset: 0.169 ms

# Below is generated by plot.py at 2018-10-10 05:19:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 319.65 Mbit/s
95th percentile per-packet one-way delay: 168.295 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 319.65 Mbit/s
95th percentile per-packet one-way delay: 168.295 ms
Loss rate: 0.77%
Run 4: Report of PCC-Allegro — Data Link
Run 5: Statistics of PCC-Allegro

Start at: 2018-10-10 04:18:32
End at: 2018-10-10 04:19:02
Local clock offset: -0.319 ms
Remote clock offset: -0.583 ms

# Below is generated by plot.py at 2018-10-10 05:20:30
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 328.38 Mbit/s
  95th percentile per-packet one-way delay: 279.707 ms
  Loss rate: 14.56%
-- Flow 1:
  Average throughput: 328.38 Mbit/s
  95th percentile per-packet one-way delay: 279.707 ms
  Loss rate: 14.56%
Run 5: Report of PCC-Allegro — Data Link

![Graph showing throughput and delay](image1.png)

- Flow 1 ingress (mean 384.33 Mbit/s)
- Flow 1 egress (mean 328.38 Mbit/s)

![Graph showing packet one way delay](image2.png)

- Flow 1 (95th percentile 279.71 ms)
Run 1: Statistics of PCC-Expr

Start at: 2018-10-10 02:38:19
End at: 2018-10-10 02:38:49
Local clock offset: -0.13 ms
Remote clock offset: -0.185 ms

# Below is generated by plot.py at 2018-10-10 05:20:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 211.36 Mbit/s
95th percentile per-packet one-way delay: 148.336 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 211.36 Mbit/s
95th percentile per-packet one-way delay: 148.336 ms
Loss rate: 0.05%
Run 1: Report of PCC-Expr — Data Link
Run 2: Statistics of PCC-Expr

Start at: 2018-10-10 03:03:53
End at: 2018-10-10 03:04:23
Local clock offset: 0.085 ms
Remote clock offset: 0.2 ms

# Below is generated by plot.py at 2018-10-10 05:20:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.81 Mbit/s
95th percentile per-packet one-way delay: 260.154 ms
Loss rate: 7.50%
-- Flow 1:
Average throughput: 219.81 Mbit/s
95th percentile per-packet one-way delay: 260.154 ms
Loss rate: 7.50%
Run 2: Report of PCC-Expr — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 237.64 Mbit/s)
- Flow 1 egress (mean 219.81 Mbit/s)

![Graph 2: Per-packet one-way delay (ms)]

- Flow 1 (95th percentile 260.15 ms)
Run 3: Statistics of PCC-Expr

Start at: 2018-10-10 03:29:05
End at: 2018-10-10 03:29:35
Local clock offset: -0.023 ms
Remote clock offset: -0.195 ms

# Below is generated by plot.py at 2018-10-10 05:20:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 234.57 Mbit/s
95th percentile per-packet one-way delay: 252.383 ms
Loss rate: 4.85%
-- Flow 1:
Average throughput: 234.57 Mbit/s
95th percentile per-packet one-way delay: 252.383 ms
Loss rate: 4.85%
Run 3: Report of PCC-Expr — Data Link

![Throughput (Mbps)](image1)

- **Flow 1 ingress (mean 246.56 Mbit/s)**
- **Flow 1 egress (mean 234.57 Mbit/s)**

![Packet Delay (ms)](image2)

- **Flow 1 (95th percentile 252.38 ms)**
Run 4: Statistics of PCC-Expr

Start at: 2018-10-10 03:54:27  
End at: 2018-10-10 03:54:57  
Local clock offset: -0.184 ms  
Remote clock offset: -0.606 ms  

# Below is generated by plot.py at 2018-10-10 05:24:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 302.72 Mbit/s  
95th percentile per-packet one-way delay: 253.027 ms  
Loss rate: 5.14%  
-- Flow 1:  
Average throughput: 302.72 Mbit/s  
95th percentile per-packet one-way delay: 253.027 ms  
Loss rate: 5.14%  

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Run 4: Report of PCC-Expr — Data Link
Run 5: Statistics of PCC-Expr

Start at: 2018-10-10 04:20:07
End at: 2018-10-10 04:20:37
Local clock offset: -0.273 ms
Remote clock offset: 0.193 ms

# Below is generated by plot.py at 2018-10-10 05:24:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 274.66 Mbit/s
95th percentile per-packet one-way delay: 255.866 ms
Loss rate: 4.54%
-- Flow 1:
Average throughput: 274.66 Mbit/s
95th percentile per-packet one-way delay: 255.866 ms
Loss rate: 4.54%
Run 5: Report of PCC-Expr — Data Link
Run 1: Statistics of QUIC Cubic

Start at: 2018-10-10 02:25:22
End at: 2018-10-10 02:25:52
Local clock offset: -0.12 ms
Remote clock offset: -0.245 ms

# Below is generated by plot.py at 2018-10-10 05:24:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.87 Mbit/s
95th percentile per-packet one-way delay: 139.335 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 35.87 Mbit/s
95th percentile per-packet one-way delay: 139.335 ms
Loss rate: 0.00%
Run 1: Report of QUIC Cubic — Data Link

![Graph](image1)

- **Flow 1 ingress (mean 35.87 Mbit/s)**
- **Flow 1 egress (mean 35.87 Mbit/s)**

![Graph](image2)

- **Flow 1 (95th percentile 139.34 ms)**
Run 2: Statistics of QUIC Cubic

Start at: 2018-10-10 02:50:44
End at: 2018-10-10 02:51:14
Local clock offset: -0.008 ms
Remote clock offset: 0.225 ms

# Below is generated by plot.py at 2018-10-10 05:24:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.12 Mbit/s
95th percentile per-packet one-way delay: 137.807 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.12 Mbit/s
95th percentile per-packet one-way delay: 137.807 ms
Loss rate: 0.00%
Run 2: Report of QUIC Cubic — Data Link

![Graph 1: Throughput vs Time]

![Graph 2: Packet Delay vs Time]

- Flow 1 ingress (mean 58.12 Mb/s)
- Flow 1 egress (mean 58.12 Mb/s)

Flow 1 (95th percentile 137.81 ms)
Run 3: Statistics of QUIC Cubic

Start at: 2018-10-10 03:16:03
End at: 2018-10-10 03:16:33
Local clock offset: -0.084 ms
Remote clock offset: -0.176 ms

# Below is generated by plot.py at 2018-10-10 05:24:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.91 Mbit/s
95th percentile per-packet one-way delay: 139.567 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.91 Mbit/s
95th percentile per-packet one-way delay: 139.567 ms
Loss rate: 0.00%
Run 3: Report of QUIC Cubic — Data Link
Run 4: Statistics of QUIC Cubic

Start at: 2018-10-10 03:41:23
End at: 2018-10-10 03:41:53
Local clock offset: -0.075 ms
Remote clock offset: 0.171 ms

# Below is generated by plot.py at 2018-10-10 05:24:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.14 Mbit/s
95th percentile per-packet one-way delay: 137.726 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.14 Mbit/s
95th percentile per-packet one-way delay: 137.726 ms
Loss rate: 0.00%
Run 4: Report of QUIC Cubic — Data Link

![Graph showing throughput over time for two network flows.]

Flow 1 ingress (mean 59.14 Mbit/s) vs. Flow 1 egress (mean 59.14 Mbit/s)

![Graph showing packet delay over time for Flow 1.]

Flow 1 (95th percentile 137.73 ms)
Run 5: Statistics of QUIC Cubic

Start at: 2018-10-10 04:07:15
End at: 2018-10-10 04:07:45
Local clock offset: -0.284 ms
Remote clock offset: -0.242 ms

# Below is generated by plot.py at 2018-10-10 05:24:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.11 Mbit/s
95th percentile per-packet one-way delay: 139.211 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.11 Mbit/s
95th percentile per-packet one-way delay: 139.211 ms
Loss rate: 0.00%
Run 1: Statistics of SCReAM

Start at: 2018-10-10 02:47:48
End at: 2018-10-10 02:48:18
Local clock offset: -0.148 ms
Remote clock offset: -0.51 ms

# Below is generated by plot.py at 2018-10-10 05:24:50
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 138.139 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 138.139 ms
  Loss rate: 0.00%
Run 1: Report of SCReAM — Data Link

![Graph 1: Throughput over Time](image1)

![Graph 2: Packet Delays over Time](image2)
Run 2: Statistics of SCReAM

Start at: 2018-10-10 03:13:10
End at: 2018-10-10 03:13:40
Local clock offset: -0.138 ms
Remote clock offset: 0.145 ms

# Below is generated by plot.py at 2018-10-10 05:24:50
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 140.425 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 140.425 ms
  Loss rate: 0.00%
Run 2: Report of SCReAM — Data Link

![Graph 1: Throughput (Mbps) over Time (s)]

- Flow 1 ingress (mean 0.22 Mbps)
- Flow 1 egress (mean 0.22 Mbps)

![Graph 2: Packet one-way delay (ms) over Time (s)]

- Flow 1 (95th percentile 140.43 ms)
Run 3: Statistics of SCReAM

Start at: 2018-10-10 03:38:31
End at: 2018-10-10 03:39:01
Local clock offset: ~0.048 ms
Remote clock offset: 0.169 ms

# Below is generated by plot.py at 2018-10-10 05:24:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 139.488 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 139.488 ms
Loss rate: 0.00%
Run 3: Report of SCReAM — Data Link

Throughput (Mbit/s)

Flow 1 ingress (mean 0.22 Mbit/s)  Flow 1 egress (mean 0.22 Mbit/s)

Packet one-way delay (ms)

Flow 1 (95th percentile 139.49 ms)
Run 4: Statistics of SCReAM

Start at: 2018-10-10 04:04:19
End at: 2018-10-10 04:04:49
Local clock offset: -0.245 ms
Remote clock offset: -0.216 ms

# Below is generated by plot.py at 2018-10-10 05:24:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.545 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.545 ms
Loss rate: 0.00%
Run 4: Report of SCReAM — Data Link
Run 5: Statistics of SCReAM

Start at: 2018-10-10 04:29:56
End at: 2018-10-10 04:30:26
Local clock offset: -0.179 ms
Remote clock offset: -0.584 ms

# Below is generated by plot.py at 2018-10-10 05:24:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 138.966 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 138.966 ms
Loss rate: 0.00%
Run 5: Report of SCReAM — Data Link

![Graph 1: Throughput vs Time](image1)

Graph 1: Throughput vs Time

- **Flow 1 ingress (mean 0.22 Mbit/s)**
- **Flow 1 egress (mean 0.22 Mbit/s)**

![Graph 2: Per packet one-way delay](image2)

Graph 2: Per packet one-way delay

- **Flow 1 (95th percentile 138.97 ms)**

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Run 1: Statistics of Sprout

Start at: 2018-10-10 02:44:03
End at: 2018-10-10 02:44:33
Local clock offset: 0.046 ms
Remote clock offset: -0.108 ms

# Below is generated by plot.py at 2018-10-10 05:24:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 140.090 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 140.090 ms
Loss rate: 0.00%
Run 1: Report of Sprout — Data Link
Run 2: Statistics of Sprout

Start at: 2018-10-10 03:09:26
End at: 2018-10-10 03:09:56
Local clock offset: -0.124 ms
Remote clock offset: -0.176 ms

# Below is generated by plot.py at 2018-10-10 05:24:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.99 Mbit/s
95th percentile per-packet one-way delay: 139.871 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.99 Mbit/s
95th percentile per-packet one-way delay: 139.871 ms
Loss rate: 0.00%
Run 2: Report of Sprout — Data Link

[Graph showing throughput over time with annotations for Flow 1 ingress and egress]

[Graph showing per-packet one-way delay with annotation for Flow 1 95th percentile 139.87 ms]
Run 3: Statistics of Sprout

Start at: 2018-10-10 03:34:47
End at: 2018-10-10 03:35:17
Local clock offset: 0.114 ms
Remote clock offset: -0.228 ms

# Below is generated by plot.py at 2018-10-10 05:24:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 137.511 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 137.511 ms
Loss rate: 0.00%
Run 3: Report of Sprout — Data Link

![Graph 1: Throughput vs Time](image1)

- Flow 1 ingress (mean 0.39 Mbit/s)
- Flow 1 egress (mean 0.39 Mbit/s)

![Graph 2: Packet Loss vs Time](image2)

- Flow 1 (90th percentile 137.31 ms)
Run 4: Statistics of Sprout

Start at: 2018-10-10 04:00:35
End at: 2018-10-10 04:01:05
Local clock offset: -0.081 ms
Remote clock offset: -0.214 ms

# Below is generated by plot.py at 2018-10-10 05:24:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 139.387 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 139.387 ms
Loss rate: 0.00%
Run 4: Report of Sprout — Data Link
Run 5: Statistics of Sprout

Start at: 2018-10-10 04:26:12
End at: 2018-10-10 04:26:42
Local clock offset: -0.216 ms
Remote clock offset: -0.217 ms

# Below is generated by plot.py at 2018-10-10 05:24:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 139.344 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 139.344 ms
Loss rate: 0.00%
Run 5: Report of Sprout — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 0.34 Mbps)
- Flow 1 egress (mean 0.34 Mbps)

![Graph 2: Packet one-way delay (ms)]

- Flow 1 (90th percentile 139.34 ms)
Run 1: Statistics of TaoVA-100x

Start at: 2018-10-10 02:41:08
End at: 2018-10-10 02:41:38
Local clock offset: 0.175 ms
Remote clock offset: -0.165 ms

# Below is generated by plot.py at 2018-10-10 05:24:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 192.18 Mbit/s
95th percentile per-packet one-way delay: 140.054 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 192.18 Mbit/s
95th percentile per-packet one-way delay: 140.054 ms
Loss rate: 0.01%
Run 1: Report of TaoVA-100x — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 192.18 Mbps)  
Flow 1 egress (mean 192.18 Mbps)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 140.05 ms)
Run 2: Statistics of TaoVA-100x

Start at: 2018-10-10 03:06:49
End at: 2018-10-10 03:07:19
Local clock offset: -0.023 ms
Remote clock offset: 0.181 ms

# Below is generated by plot.py at 2018-10-10 05:24:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.66 Mbit/s
95th percentile per-packet one-way delay: 138.458 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.66 Mbit/s
95th percentile per-packet one-way delay: 138.458 ms
Loss rate: 0.00%
Run 2: Report of TaoVA-100x — Data Link

[Graph showing throughput over time]

[Graph showing packet one-way delay over time]
Run 3: Statistics of TaoVA-100x

Start at: 2018-10-10 03:32:10
End at: 2018-10-10 03:32:40
Local clock offset: 0.007 ms
Remote clock offset: -0.198 ms

# Below is generated by plot.py at 2018-10-10 05:24:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.57 Mbit/s
95th percentile per-packet one-way delay: 139.608 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.57 Mbit/s
95th percentile per-packet one-way delay: 139.608 ms
Loss rate: 0.00%
Run 3: Report of TaoVA-100x — Data Link

Throughput (Mb/s) vs. Time (s)

Flow 1 ingress (mean 12.57 Mb/s)  Flow 1 egress (mean 12.57 Mb/s)

Packet one-way delay (ms) vs. Time (s)

Flow 1 (95th percentile 139.61 ms)
Run 4: Statistics of TaoVA-100x

Start at: 2018-10-10 03:57:37
End at: 2018-10-10 03:58:07
Local clock offset: -0.064 ms
Remote clock offset: -0.206 ms

# Below is generated by plot.py at 2018-10-10 05:25:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 195.82 Mbit/s
95th percentile per-packet one-way delay: 146.626 ms
Loss rate: 0.00%

-- Flow 1:
Average throughput: 195.82 Mbit/s
95th percentile per-packet one-way delay: 146.626 ms
Loss rate: 0.00%
Run 4: Report of TaoVA-100x — Data Link
Run 5: Statistics of TaoVA-100x

Start at: 2018-10-10 04:23:14
End at: 2018-10-10 04:23:44
Local clock offset: -0.116 ms
Remote clock offset: -0.566 ms

# Below is generated by plot.py at 2018-10-10 05:25:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 201.92 Mbit/s
95th percentile per-packet one-way delay: 149.299 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 201.92 Mbit/s
95th percentile per-packet one-way delay: 149.299 ms
Loss rate: 0.01%
Run 5: Report of TaoVA-100x — Data Link

---

**Throughput (Mbps)**

![Throughput Graph]

**Flow 1 ingress (mean 201.93 Mbit/s)**

**Flow 1 egress (mean 201.92 Mbit/s)**

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**Per packet end-to-end delay (ms)**

![Delay Graph]

*flow 1 (95th percentile 149.30 ms)*

---

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Run 1: Statistics of TCP Vegas

Start at: 2018-10-10 02:46:24
End at: 2018-10-10 02:46:54
Local clock offset: -0.196 ms
Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2018-10-10 05:25:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 233.34 Mbit/s
95th percentile per-packet one-way delay: 140.547 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 233.34 Mbit/s
95th percentile per-packet one-way delay: 140.547 ms
Loss rate: 0.00%
Run 1: Report of TCP Vegas — Data Link

![Graph 1: Throughput (Mbps) vs. Time (s)]

- Flow 1 ingress (mean 233.34 Mbit/s)
- Flow 1 egress (mean 233.34 Mbit/s)

![Graph 2: Per packet one-way delay (ms) vs. Time (s)]

- Flow 1 (95th percentile 140.55 ms)
Run 2: Statistics of TCP Vegas

Start at: 2018-10-10 03:11:47
End at: 2018-10-10 03:12:17
Local clock offset: -0.064 ms
Remote clock offset: -0.189 ms

# Below is generated by plot.py at 2018-10-10 05:25:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 234.19 Mbit/s
95th percentile per-packet one-way delay: 139.707 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 234.19 Mbit/s
95th percentile per-packet one-way delay: 139.707 ms
Loss rate: 0.00%
Run 2: Report of TCP Vegas — Data Link
Run 3: Statistics of TCP Vegas

Start at: 2018-10-10 03:37:07
End at: 2018-10-10 03:37:37
Local clock offset: 0.071 ms
Remote clock offset: 0.163 ms

# Below is generated by plot.py at 2018-10-10 05:25:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 235.47 Mbit/s
95th percentile per-packet one-way delay: 140.177 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 235.47 Mbit/s
95th percentile per-packet one-way delay: 140.177 ms
Loss rate: 0.00%
Run 3: Report of TCP Vegas — Data Link

![Graph showing throughput and packet delay over time.]
Run 4: Statistics of TCP Vegas

Start at: 2018-10-10 04:02:56  
End at: 2018-10-10 04:03:26  
Local clock offset: -0.284 ms  
Remote clock offset: -0.205 ms  

# Below is generated by plot.py at 2018-10-10 05:27:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 235.26 Mbit/s  
95th percentile per-packet one-way delay: 138.185 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 235.26 Mbit/s  
95th percentile per-packet one-way delay: 138.185 ms  
Loss rate: 0.00%
Run 4: Report of TCP Vegas — Data Link
Run 5: Statistics of TCP Vegas

Start at: 2018-10-10 04:28:32
End at: 2018-10-10 04:29:02
Local clock offset: -0.24 ms
Remote clock offset: -0.584 ms

# Below is generated by plot.py at 2018-10-10 05:27:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 236.46 Mbit/s
95th percentile per-packet one-way delay: 137.879 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 236.46 Mbit/s
95th percentile per-packet one-way delay: 137.879 ms
Loss rate: 0.00%
Run 5: Report of TCP Vegas — Data Link

![Graph of throughput over time with two plots showing flow ingress and egress rates.]

![Graph of per-packet round trip time over time with a plot showing flow 1's 95th percentile at 137.88 ms.]
Run 1: Statistics of Verus

Start at: 2018-10-10 02:39:51
End at: 2018-10-10 02:40:21
Local clock offset: 0.004 ms
Remote clock offset: 0.2 ms

# Below is generated by plot.py at 2018-10-10 05:27:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.95 Mbit/s
95th percentile per-packet one-way delay: 172.846 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.95 Mbit/s
95th percentile per-packet one-way delay: 172.846 ms
Loss rate: 0.00%
Run 1: Report of Verus — Data Link
Run 2: Statistics of Verus

Start at: 2018-10-10 03:05:27
End at: 2018-10-10 03:05:57
Local clock offset: 0.08 ms
Remote clock offset: 0.171 ms

# Below is generated by plot.py at 2018-10-10 05:27:42
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 110.51 Mbit/s
  95th percentile per-packet one-way delay: 332.905 ms
  Loss rate: 6.86%
-- Flow 1:
  Average throughput: 110.51 Mbit/s
  95th percentile per-packet one-way delay: 332.905 ms
  Loss rate: 6.86%
Run 2: Report of Verus — Data Link
Run 3: Statistics of Verus

Start at: 2018-10-10 03:30:39
End at: 2018-10-10 03:31:09
Local clock offset: 0.041 ms
Remote clock offset: -0.193 ms

# Below is generated by plot.py at 2018-10-10 05:30:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 184.86 Mbit/s
95th percentile per-packet one-way delay: 323.276 ms
Loss rate: 19.77%
-- Flow 1:
Average throughput: 184.86 Mbit/s
95th percentile per-packet one-way delay: 323.276 ms
Loss rate: 19.77%
Run 3: Report of Verus — Data Link
Run 4: Statistics of Verus

Start at: 2018-10-10 03:56:09
End at: 2018-10-10 03:56:39
Local clock offset: -0.402 ms
Remote clock offset: -0.19 ms

# Below is generated by plot.py at 2018-10-10 05:30:55
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 170.76 Mbit/s
  95th percentile per-packet one-way delay: 288.601 ms
  Loss rate: 1.77%
-- Flow 1:
  Average throughput: 170.76 Mbit/s
  95th percentile per-packet one-way delay: 288.601 ms
  Loss rate: 1.77%
Run 4: Report of Verus — Data Link

Throughput (Mb/s)

Time (s)

- Flow 1 ingress (mean 173.85 Mb/s)
- Flow 1 egress (mean 170.76 Mb/s)

Per packet one way delay (ms)

Time (s)

- Flow 1 (95th percentile 298.60 ms)
Run 5: Statistics of Verus

Start at: 2018-10-10 04:21:46
End at: 2018-10-10 04:22:16
Local clock offset: -0.445 ms
Remote clock offset: -0.207 ms

# Below is generated by plot.py at 2018-10-10 05:30:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 158.12 Mbit/s
95th percentile per-packet one-way delay: 231.349 ms
Loss rate: 1.85%
-- Flow 1:
Average throughput: 158.12 Mbit/s
95th percentile per-packet one-way delay: 231.349 ms
Loss rate: 1.85%
Run 5: Report of Verus — Data Link

![Graph showing throughput vs. time]

![Graph showing packet delay vs. time]

Flow 1 ingress (mean 161.10 Mbit/s)  Flow 1 egress (mean 158.12 Mbit/s)

Flow 1 (95th percentile 231.35 ms)
Run 1: Statistics of PCC-Vivace

Start at: 2018-10-10 02:32:12
End at: 2018-10-10 02:32:42
Local clock offset: 0.07 ms
Remote clock offset: 0.189 ms

# Below is generated by plot.py at 2018-10-10 05:30:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 263.81 Mbit/s
95th percentile per-packet one-way delay: 142.614 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 263.81 Mbit/s
95th percentile per-packet one-way delay: 142.614 ms
Loss rate: 0.96%
Run 1: Report of PCC-Vivace — Data Link

![Graph showing throughput and packet delay over time for Flow 1 with ingress and egress mean rates.]
Run 2: Statistics of PCC-Vivace

Start at: 2018-10-10 02:57:35
End at: 2018-10-10 02:58:05
Local clock offset: 0.051 ms
Remote clock offset: -0.129 ms

# Below is generated by plot.py at 2018-10-10 05:31:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 326.93 Mbit/s
95th percentile per-packet one-way delay: 181.412 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 326.93 Mbit/s
95th percentile per-packet one-way delay: 181.412 ms
Loss rate: 0.41%
Run 2: Report of PCC-Vivace — Data Link
Run 3: Statistics of PCC-Vivace

Start at: 2018-10-10 03:22:53
End at: 2018-10-10 03:23:23
Local clock offset: -0.041 ms
Remote clock offset: -0.514 ms

# Below is generated by plot.py at 2018-10-10 05:31:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 243.14 Mbit/s
95th percentile per-packet one-way delay: 277.331 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 243.14 Mbit/s
95th percentile per-packet one-way delay: 277.331 ms
Loss rate: 1.42%
Run 3: Report of PCC-Vivace — Data Link

---

**Throughput (Mbps):**

- Flow 1 ingress (mean 246.64 Mbit/s)
- Flow 1 egress (mean 243.14 Mbit/s)

---

**Per-packet one-way delay (ms):**

- Flow 1 (95th percentile 277.33 ms)
Run 4: Statistics of PCC-Vivace

Start at: 2018-10-10 03:48:12
End at: 2018-10-10 03:48:42
Local clock offset: -0.094 ms
Remote clock offset: -0.557 ms

# Below is generated by plot.py at 2018-10-10 05:31:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 322.50 Mbit/s
95th percentile per-packet one-way delay: 223.251 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 322.50 Mbit/s
95th percentile per-packet one-way delay: 223.251 ms
Loss rate: 0.50%
Run 4: Report of PCC-Vivace — Data Link
Run 5: Statistics of PCC-Vivace

Start at: 2018-10-10 04:14:01
End at: 2018-10-10 04:14:31
Local clock offset: -0.267 ms
Remote clock offset: -0.22 ms

# Below is generated by plot.py at 2018-10-10 05:31:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 156.22 Mbit/s
95th percentile per-packet one-way delay: 267.823 ms
Loss rate: 2.57%
-- Flow 1:
Average throughput: 156.22 Mbit/s
95th percentile per-packet one-way delay: 267.823 ms
Loss rate: 2.57%
Run 5: Report of PCC-Vivace — Data Link

Graphs showing throughput and per-packet one-way delay over time for flow 1.
Run 1: Statistics of WebRTC media

Start at: 2018-10-10 02:26:35
End at: 2018-10-10 02:27:05
Local clock offset: -0.064 ms
Remote clock offset: 0.134 ms

# Below is generated by plot.py at 2018-10-10 05:31:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 139.843 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 139.843 ms
Loss rate: 0.00%
Run 1: Report of WebRTC media — Data Link

![Graph of throughput and packet delay over time](image1)

- **Throughput (Mb/s)**
  - Flow 1 ingress (mean 2.02 Mb/s)
  - Flow 1 egress (mean 2.02 Mb/s)

- **Packet delay (ms)**
  - Flow 1 (95th percentile 139.84 ms)
Run 2: Statistics of WebRTC media

Start at: 2018-10-10 02:51:58
End at: 2018-10-10 02:52:28
Local clock offset: 0.242 ms
Remote clock offset: -0.481 ms

# Below is generated by plot.py at 2018-10-10 05:31:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 139.533 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 139.533 ms
Loss rate: 0.00%
Run 2: Report of WebRTC media — Data Link
Run 3: Statistics of WebRTC media

Start at: 2018-10-10 03:17:17
End at: 2018-10-10 03:17:47
Local clock offset: -0.037 ms
Remote clock offset: -0.184 ms

# Below is generated by plot.py at 2018-10-10 05:31:13
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 1.79 Mbit/s
  95th percentile per-packet one-way delay: 140.051 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 1.79 Mbit/s
  95th percentile per-packet one-way delay: 140.051 ms
  Loss rate: 0.00%
Run 3: Report of WebRTC media — Data Link
Run 4: Statistics of WebRTC media

Start at: 2018-10-10 03:42:37
End at: 2018-10-10 03:43:07
Local clock offset: -0.088 ms
Remote clock offset: 0.175 ms

# Below is generated by plot.py at 2018-10-10 05:31:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.83 Mbit/s
95th percentile per-packet one-way delay: 139.614 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.83 Mbit/s
95th percentile per-packet one-way delay: 139.614 ms
Loss rate: 0.00%
Run 4: Report of WebRTC media — Data Link
Run 5: Statistics of WebRTC media

Start at: 2018-10-10 04:08:28
End at: 2018-10-10 04:08:58
Local clock offset: -0.089 ms
Remote clock offset: -0.213 ms

# Below is generated by plot.py at 2018-10-10 05:31:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.78 Mbit/s
95th percentile per-packet one-way delay: 138.513 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.78 Mbit/s
95th percentile per-packet one-way delay: 138.513 ms
Loss rate: 0.00%
Run 5: Report of WebRTC media — Data Link

![Graph showing throughput over time with two lines representing Flow 1 ingress and egress, each with a mean of 1.78 Mbit/s.]

![Graph showing packet delay over time with points indicating the 90th percentile delay of 138.31 ms for Flow 1.]