

```
| ip.addr == 128.119.245.12 && http
```

A set of small, light-blue navigation icons typically found in software like Microsoft Word or Google Docs. From left to right, they include: a black 'X' (cancel), a large black arrow pointing right (next page), a downward-pointing triangle (list or dropdown menu), and a plus sign (+) (add or new).

No.	Time	Source	Destination	Protocol	Length	Info
465	3.256380	10.68.20.245	128.119.245.12	HTTP	648	POST /wireshark-labs/lab3-1-reply.htm HTTP/1.1 (application/pdf)
581	3.530949	128.119.245.12	10.68.20.245	HTTP	831	HTTP/1.1 200 OK (text/html)

```
> Frame 465: 648 bytes on wire (5184 bits), 648 bytes captured (5184 bits) on interface  
> Ethernet II, Src: Apple_7a:9a:7b (8c:85:90:7a:9a:7b), Dst: IETF-VRRP-VRID_01 (00:0c:  
> Internet Protocol Version 4, Src: 10.68.20.245, Dst: 128.119.245.12  
v Transmission Control Protocol, Src Port: 64533, Dst Port: 80, Seq: 405425, Ack: 1,
```

Source Port: 64533
Destination Port: 80
[Stream index: 1]
> [Conversation completeness: Incomplete, DATA (15)]
[TCP Segment Len: 594]
Sequence Number: 405425 (relative sequence number)
Sequence Number (raw): 719705231
[Next Sequence Number: 406019 (relative sequence number)]
Acknowledgment Number: 1 (relative ack number)
Acknowledgment number (raw): 530696731
0101 = Header Length: 20 bytes (5)
> Flags: 0x018 (PSH, ACK)
Window: 4096
[Calculated window size: 262144]
[Window size scaling factor: 64]
Checksum: 0x72ec [unverified]
[Checksum Status: Unverified]
Urgent Pointer: 0
> [Timestamps]
> [SEQ/ACK analysis]
TCP payload (594 bytes)

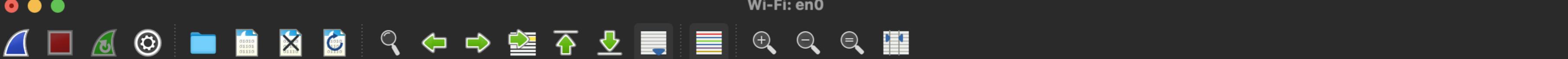
ac	00000000	50 4f 53 54 20 2f 77 69	72 65 73 68 61 72 6b 2d	POST /wi reshark-
0:	00000010	6c 61 62 73 2f 6c 61 62	33 2d 31 2d 72 65 70 6c	labs/lab 3-1-repl
L	00000020	79 2e 68 74 6d 20 48 54	54 50 2f 31 2e 31 0d 0a	y.htm HT TP/1.1 ..
	00000030	48 6f 73 74 3a 20 67 61	69 61 2e 63 73 2e 75 6d	Host: ga ia.cs.um
	00000040	61 73 73 2e 65 64 75 0d	0a 4f 72 69 67 69 6e 3a	ass.edu · Origin:
	00000050	20 68 74 74 70 3a 2f 2f	67 61 69 61 2e 63 73 2e	http:// gaia.cs.
	00000060	75 6d 61 73 73 2e 65 64	75 0d 0a 43 6f 6e 74 65	umass.ed u · Conte
	00000070	6e 74 2d 54 79 70 65 3a	20 6d 75 6c 74 69 70 61	nt-Type: multipa
	00000080	72 74 2f 66 6f 72 6d 2d	64 61 74 61 3b 20 62 6f	rt/form- data; bo
	00000090	75 6e 64 61 72 79 3d 2d	2d 2d 2d 57 65 62 4b 69	undary= ---WebKit
	000000a0	74 46 6f 72 6d 42 6f 75	6e 64 61 72 79 41 42 54	tFormBou ndaryABT
	000000b0	5a 50 67 41 58 63 6e 66	39 4e 53 46 41 0d 0a 41	ZPgAXcnf 9NSFA · A
	000000c0	63 63 65 70 74 2d 45 6e	63 6f 64 69 6e 67 3a 20	ccept-En coding:
	000000d0	67 7a 69 70 2c 20 64 65	66 6c 61 74 65 0d 0a 43	gzip, de flate · C
	000000e0	6f 6e 6e 65 63 74 69 6f	6e 3a 20 6b 65 65 70 2d	onnectio n: keep-
	000000f0	61 6c 69 76 65 0d 0a 55	70 67 72 61 64 65 2d 49	alive · Upgrade-I
	00000100	6e 73 65 63 75 72 65 2d	52 65 71 75 65 73 74 73	nsecure- Requests
	00000110	3a 20 31 0d 0a 41 63 63	65 70 74 3a 20 74 65 78	: 1 · Acc ept: tex
	00000120	74 2f 68 74 6d 6c 2c 61	70 70 6c 69 63 61 74 69	t/html, a pplicati
	00000130	6f 6e 2f 78 68 74 6d 6c	2b 78 6d 6c 2c 61 70 70	on/xhtml +xml, app
	00000140	6c 69 63 61 74 69 6f 6e	2f 78 6d 6c 3b 71 3d 30	lication /xml;q=0
	00000150	2e 39 2c 2a 2f 2a 3b 71	3d 30 2e 38 0d 0a 55 73	.9,*/*;q =0.8 · Us
	00000160	65 72 2d 41 67 65 6e 74	3a 20 4d 6f 7a 69 6c 6c	er-Agent : Mozill
	00000170	61 2f 35 2e 30 20 28 4d	61 63 69 6e 74 6f 73 68	a/5.0 (Macintosh
	00000180	3b 20 49 6e 74 65 6c 20	4d 61 63 20 4f 53 20 58	; Intel Mac OS X
	00000190	20 31 30 5f 31 35 5f 37	29 20 41 70 70 6c 65 57	10_15_7) AppleW
	000001a0	65 62 4b 69 74 2f 36 30	35 2e 31 2e 31 35 20 28	ebKit/60 5.1.15 (
	000001b0	4b 48 54 4d 4c 2c 20 6c	69 6b 65 20 47 65 63 6b	KHTML, l ike Geck

Frame (648 bytes)

Reassembled TCP (406018 bytes)

● Packets: 671 · Displayed: 2 (0.3%) · Dropped: 0 (0.0%)

Profile: Default



Wi-Fi: en0

ip.addr == 128.119.245.12 && http											
No.	Time	Source	Destination	Protocol	Length	Info					
465	3.256380	10.68.20.245	128.119.245.12	HTTP	648	POST /wireshark-labs/lab3-1-reply.htm HTTP/1.1 (application/pdf)					
581	3.530949	128.119.245.12	10.68.20.245	HTTP	831	HTTP/1.1 200 OK (text/html)					

> Frame 465: 648 bytes on wire (5184 bits), 648 bytes captured (5184 bits) on interface
> Ethernet II, Src: Apple_7a:9a:7b (8c:85:90:7a:9a:7b), Dst: IETF_VRRP-VRID_01 (00:00:
> Internet Protocol Version 4, Src: 10.68.20.245, Dst: 128.119.245.12
> Transmission Control Protocol, Src Port: 64533, Dst Port: 80, Seq: 405425, Ack: 1, L
> [364 Reassembled TCP Segments (406018 bytes): #89(617), #90(143), #91(1380), #92(138
▼ Hypertext Transfer Protocol
> POST /wireshark-labs/lab3-1-reply.htm HTTP/1.1\r\n
Host: gaia.cs.umass.edu\r\nOrigin: http://gaia.cs.umass.edu\r\nContent-Type: multipart/form-data; boundary=----WebKitFormBoundaryABTZPgAXcnf9NSF
Accept-Encoding: gzip, deflate\r\nConnection: keep-alive\r\nUpgrade-Insecure-Requests: 1\r\nAccept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8\r\nUser-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/605.1.15
Referer: http://gaia.cs.umass.edu/wireshark-labs/TCP-wireshark-file1.html\r\n
> Content-Length: 405401\r\nAccept-Language: en-US,en;q=0.9\r\n\r\n[Full request URI: http://gaia.cs.umass.edu/wireshark-labs/lab3-1-reply.htm]
[HTTP request 1/1]
[Response in frame: 581]
File Data: 405401 bytes
> MIME Multipart Media Encapsulation, Type: multipart/form-data, Boundary: "----WebKit

0030	10 00 72 ec 00 00 20 30 30 30 30 20 6e 0d 0a .r.. 0 0000 n..
0040	30 30 30 30 33 37 35 36 31 35 20 30 30 30 30 30 00003756 15 00000
0050	20 6e 0d 0a 30 30 30 30 33 37 35 36 39 30 20 30 n..0000 375690 0
0060	30 30 30 30 20 6e 0d 0a 30 30 30 30 33 37 37 34 0000 n.. 00003774
0070	37 35 20 30 30 30 30 30 20 6e 0d 0a 30 30 30 30 75 00000 n..0000
0080	33 37 37 35 35 30 20 30 30 30 30 20 6e 0d 0a 377550 0 0000 n..
0090	30 30 30 30 33 37 39 32 34 35 20 30 30 30 30 30 00003792 45 00000
00a0	20 6e 0d 0a 30 30 30 30 33 37 39 33 32 30 20 30 n..0000 379320 0
00b0	30 30 30 30 20 6e 0d 0a 30 30 30 30 33 38 31 30 0000 n.. 00003810
00c0	37 38 20 30 30 30 30 30 20 6e 0d 0a 30 30 30 30 78 00000 n..0000
00d0	33 38 31 31 35 33 20 30 30 30 30 30 20 6e 0d 0a 381153 0 0000 n..
00e0	30 30 30 30 33 38 33 30 30 33 20 30 30 30 30 30 00003830 03 00000
00f0	20 6e 0d 0a 30 30 30 30 33 38 33 30 37 38 20 30 n..0000 383078 0
0100	30 30 30 30 20 6e 0d 0a 30 30 30 30 33 38 34 37 0000 n.. 00003847
0110	35 35 20 30 30 30 30 30 20 6e 0d 0a 30 30 30 30 55 00000 n..0000
0120	33 38 34 38 33 30 20 30 30 30 30 20 6e 0d 0a 384830 0 0000 n..
0130	30 30 30 30 33 38 36 36 30 30 20 30 30 30 30 30 00003866 00 00000
0140	20 6e 0d 0a 30 30 30 30 33 38 36 36 37 35 20 30 n..0000 386675 0
0150	30 30 30 30 20 6e 0d 0a 30 30 30 30 33 38 38 31 0000 n.. 00003881
0160	37 39 20 30 30 30 30 30 20 6e 0d 0a 30 30 30 30 79 00000 n..0000
0170	33 38 38 32 36 37 20 30 30 30 30 20 6e 0d 0a 388267 0 0000 n..
0180	30 30 30 30 33 38 38 38 32 37 20 30 30 30 30 30 00003888 27 00000
0190	20 6e 0d 0a 30 30 30 30 33 38 38 39 32 38 20 30 n..0000 388928 0
01a0	30 30 30 30 20 6e 0d 0a 74 72 61 69 6c 65 72 0d 0000 n.. trailer..
01b0	0a 3c 3c 0d 0a 2f 53 69 7a 65 20 37 38 34 0d 0a ..<../Si ze 784..
01c0	2f 52 6f 6f 74 20 37 38 32 20 30 20 52 0d 0a 2f /Root 78 2 0 R..
01d0	49 6e 66 6f 20 32 36 33 20 30 20 52 0d 0a 2f 45 Info 263 0 R../E
01e0	6e 63 72 79 70 74 20 37 38 33 20 30 20 52 0d 0a ncrypt 7 83 0 R..

Frame (648 bytes)

Reassembled TCP (406018 bytes)

Wi-Fi: en0

ip.addr == 128.119.245.12

No.	Time	Source	Destination	Protocol	Length	Info
61	1.608816	10.68.20.245	128.119.245.12	TCP	78	64533 → 80 [SYN] ECE, CWR] Seq=0 Win=65535 Len=0 MSS=1460 WS=64 TSval=431278410 TSecr=0 SACK_PERM WS=128
87	1.853832	128.119.245.12	10.68.20.245	TCP	66	80 → 64533 [SYN, ACK, ECE] Seq=0 Ack=1 Win=29200 Len=0 MSS=1380 SACK_PERM WS=128
88	1.854844	10.68.20.245	128.119.245.12	TCP	54	64533 → 80 [ACK] Seq=1 Ack=1 Win=262144 Len=0
89	1.855317	10.68.20.245	128.119.245.12	TCP	671	64533 → 80 [PSH, ACK] Seq=1 Ack=1 Win=262144 Len=617 [TCP segment of a reassembled PDU]
90	1.855843	10.68.20.245	128.119.245.12	TCP	197	64533 → 80 [PSH, ACK] Seq=618 Ack=1 Win=262144 Len=143 [TCP segment of a reassembled PDU]
91	1.856382	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=761 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]
92	1.856383	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=2141 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]
93	1.856383	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=3521 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]
94	1.856384	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=4901 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]
95	1.856385	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=6281 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]
96	1.856385	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=7661 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]

```

> Frame 61: 78 bytes on wire (624 bits), 78 bytes captured (624 bits) on interface en0
> Ethernet II, Src: Apple_7a:9a:7b (8c:85:90:7a:9a:7b), Dst: IETF-VRRP-VRID_01 (00:00:00:00:00:01)
> Internet Protocol Version 4, Src: 10.68.20.245, Dst: 128.119.245.12
└ Transmission Control Protocol, Src Port: 64533, Dst Port: 80, Seq: 0, Len: 0
    Source Port: 64533
    Destination Port: 80
    [Stream index: 1]
    > [Conversation completeness: Incomplete, DATA (15)]
        [TCP Segment Len: 0]
        Sequence Number: 0 (relative sequence number)
        Sequence Number (raw): 710290806
        [Next Sequence Number: 1 (relative sequence number)]
        Acknowledgment Number: 0
        Acknowledgment number (raw): 0
        1011 .... = Header Length: 44 bytes (11)
    > Flags: 0x0c2 (SYN, ECE, CWR)
        Window: 65535
        [Calculated window size: 65535]
        Checksum: 0xf25c [unverified]
        [Checksum Status: Unverified]
        Urgent Pointer: 0
    > Options: (24 bytes), Maximum segment size, No-Operation (NOP), Window scale, No-0
    > [Timestamps]

```

0000 00 00 5e 00 01 01 8c 85 90 7a 9a 7b 08 00 45 00 ..^... .z.{..E.
0010 00 40 00 00 40 00 40 06 a5 fb 0a 44 14 f5 80 77 @ @ @ ..D..W
0020 f5 0c fc 15 00 50 2a df a4 de 00 00 00 b0 c2 ..P*..
0030 ff ff f2 5c 00 00 02 04 05 b4 01 03 03 06 01 01 ..\...
0040 08 0a 19 b4 c9 4a 00 00 00 00 04 02 00 00 ..J..

Wi-Fi: en0

ip.addr == 128.119.245.12

No.	Time	Source	Destination	Protocol	Length	Info
61	1.608816	10.68.20.245	128.119.245.12	TCP	78	64533 → 80 [SYN, ECE, CWR] Seq=0 Win=65535 Len=0 MSS=1460 WS=64 TSval=431278410 TSecr=0 SACK_PERM WS=128
87	1.853832	128.119.245.12	10.68.20.245	TCP	66	80 → 64533 [SYN, ACK, ECE] Seq=0 Ack=1 Win=29200 Len=0 MSS=1380 SACK_PERM WS=128
88	1.854844	10.68.20.245	128.119.245.12	TCP	54	64533 → 80 [ACK] Seq=1 Ack=1 Win=262144 Len=0
89	1.855317	10.68.20.245	128.119.245.12	TCP	671	64533 → 80 [PSH, ACK] Seq=1 Ack=1 Win=262144 Len=617 [TCP segment of a reassembled PDU]
90	1.855843	10.68.20.245	128.119.245.12	TCP	197	64533 → 80 [PSH, ACK] Seq=618 Ack=1 Win=262144 Len=143 [TCP segment of a reassembled PDU]
91	1.856382	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=761 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]
92	1.856383	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=2141 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]
93	1.856383	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=3521 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]
94	1.856384	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=4901 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]
95	1.856385	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=6281 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]
96	1.856385	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=7661 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]

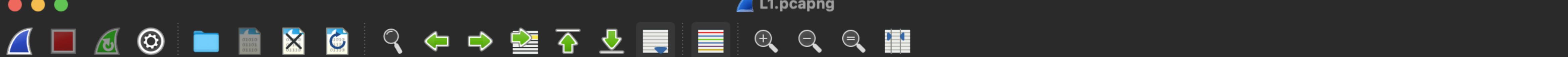
> Frame 87: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) on interface en0
> Ethernet II, Src: HuaweiTechno_4c:2f:1e (48:d5:39:4c:2f:1e), Dst: Apple_7a:9a:7b (8c:00:00:00:00:00)
> Internet Protocol Version 4, Src: 128.119.245.12, Dst: 10.68.20.245
▼ Transmission Control Protocol, Src Port: 80, Dst Port: 64533, Seq: 0, Ack: 1, Len: 0

Source Port: 80
Destination Port: 64533
[Stream index: 1]
> [Conversation completeness: Incomplete, DATA (15)]
[TCP Segment Len: 0]
Sequence Number: 0 (relative sequence number)
Sequence Number (raw): 530696730
[Next Sequence Number: 1 (relative sequence number)]
Acknowledgment Number: 1 (relative ack number)
Acknowledgment number (raw): 719299807
1000 = Header Length: 32 bytes (8)
> Flags: 0x052 (SYN, ACK, ECE)
Window: 29200
[Calculated window size: 29200]
Checksum: 0xb263 [unverified]
[Checksum Status: Unverified]
Urgent Pointer: 0
▼ Options: (12 bytes), Maximum segment size, No-Operation (NOP), No-Operation (NOP)
▼ TCP Option - Maximum segment size: 1380 bytes
Kind: Maximum Segment Size (2)
Length: 4
MSS Value: 1380

0000 8c 85 90 7a 9a 7b 48 d5 39 4c 2f 1e 08 00 45 00
0010 00 34 00 00 40 00 24 06 c2 07 80 77 f5 0c 0a 44
0020 14 f5 00 50 fc 15 1f a1 ca 1a 2a df a4 df 80 52
0030 72 10 b2 63 00 00 02 04 05 64 01 01 04 02 01 03
0040 03 07

The ack no# is simply the sequence number of the previous SYN packet plus one.

1. Handshake: Client sends SYN (Seq=0) to Server (Seq=1).
2. Server responds with SYN-ACK (Seq=1, Ack=1).
3. Client confirms with ACK (Ack=1).
4. Data exchange begins.
5. Options: Maximum segment size (1380 bytes).



No.	Time	Source	Destination	Protocol	Length	Info
61	1.608816	10.68.20.245	128.119.245.12	TCP	78	64533 → 80 [SYN, ECE, CWR] Seq=0 Win=65535 Len=0 MSS=1460 WS=64 TSval=431278410 TSecr=0 SACK_PERM
87	1.853832	128.119.245.12	10.68.20.245	TCP	66	80 → 64533 [SYN, ACK, ECE] Seq=0 Ack=1 Win=29200 Len=0 MSS=1380 SACK_PERM WS=128
88	1.854844	10.68.20.245	128.119.245.12	TCP	54	64533 → 80 [ACK] Seq=1 Ack=1 Win=262144 Len=0 Seq# for 1st 6 packets are 1, 618, 761, 2141, 3521, 4901 respectively
89	1.855317	10.68.20.245	128.119.245.12	TCP	671	64533 → 80 [PSH, ACK] Seq=1 Ack=1 Win=262144 Len=617 [TCP segment of a reassembled PDU]
90	1.855843	10.68.20.245	128.119.245.12	TCP	197	64533 → 80 [PSH, ACK] Seq=618 Ack=1 Win=262144 Len=143 [TCP segment of a reassembled PDU]
91	1.856382	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=761 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]
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93	1.856383	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=3521 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]
94	1.856384	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=4901 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]
95	1.856385	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=6281 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]
96	1.856385	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=7661 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]

L1.pcapng

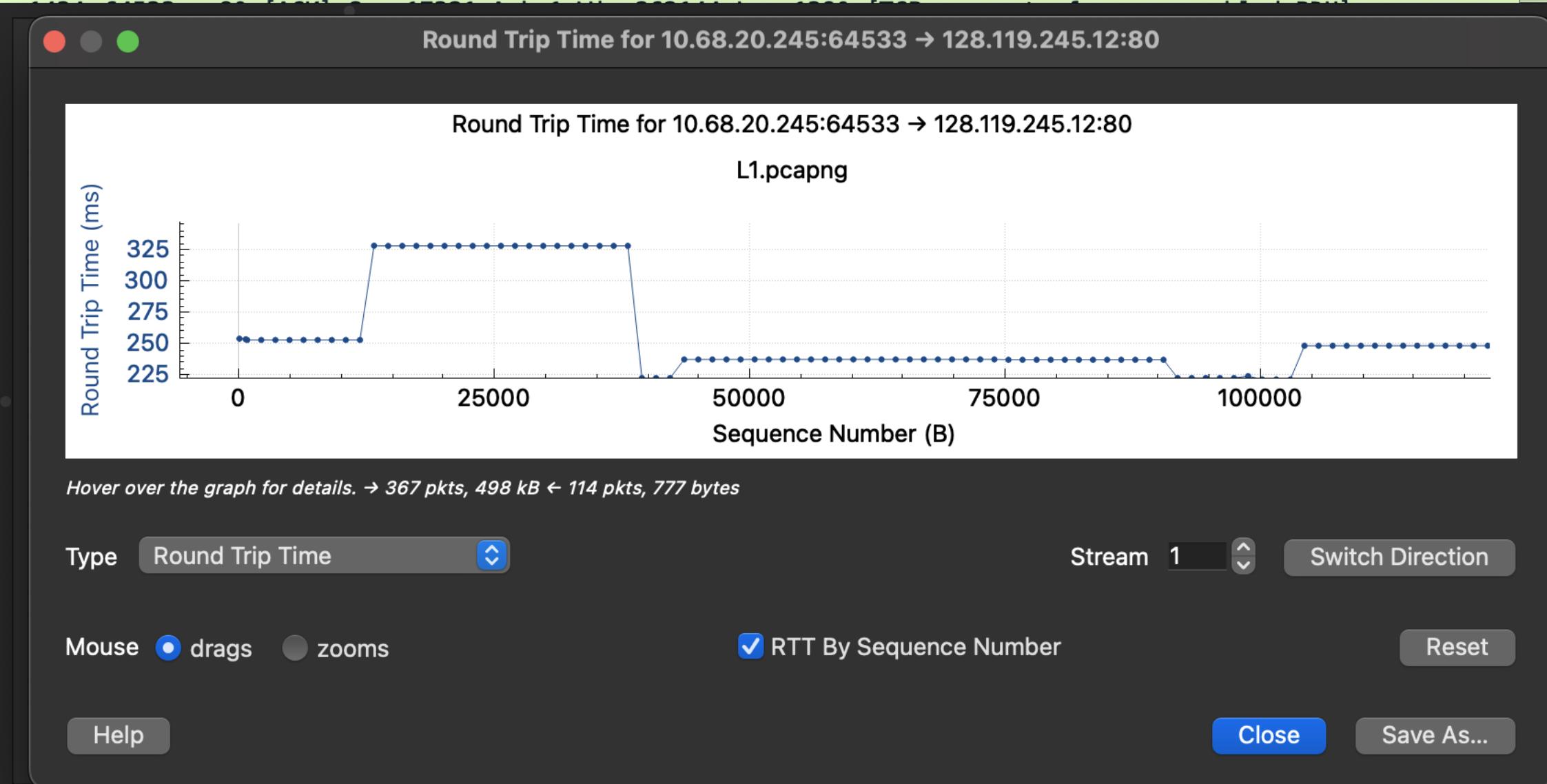
No.	Time	Source	Destination	Protocol	Length	Info
89	1.855317	10.68.20.245	128.119.245.12	TCP	671	64533 → 80 [PSH, ACK] Seq=1 Ack=1 Win=262144 Len=617 [TCP segment of a reassembled PDU]
90	1.855843	10.68.20.245	128.119.245.12	TCP	197	64533 → 80 [PSH, ACK] Seq=618 Ack=1 Win=262144 Len=143 [TCP segment of a reassembled PDU]
91	1.856382	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=761 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]
92	1.856383	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=2141 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]
93	1.856383	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=3521 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]
94	1.856384	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=4901 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]
95	1.856385	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=6281 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]
96	1.856385	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=7661 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]
97	1.856386	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=9041 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]
98	1.856387	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=10421 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]
99	1.856387	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=11801 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]
100	2.109528	128.119.245.12	10.68.20.245	TCP	60	80 → 64533 [ACK] Seq=1 Ack=618 Win=30464 Len=0
101	2.109555	128.119.245.12	10.68.20.245	TCP	60	80 → 64533 [ACK] Seq=1 Ack=761 Win=31744 Len=0
102	2.109561	128.119.245.12	10.68.20.245	TCP	60	80 → 64533 [ACK] Seq=1 Ack=11801 Win=53760 Len=0
103	2.109575	128.119.245.12	10.68.20.245	TCP	60	80 → 64533 [ACK] Seq=1 Ack=13181 Win=56704 Len=0
104	2.109668	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=13181 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]
105	2.109860	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=14561 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]
106	2.109861	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=15941 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]

Send/Recv Times

P1: 2.109528 - 1.855317 = 0.254211
P2: 2.109555 - 1.855843 = 0.253712
P3: 2.109561 - 1.856382 = 0.253719
P4: 2.109561 - 1.856382 = 0.253719
P5: 2.109561 - 1.856383 = 0.253718
P6: 2.109561 - 1.856384 = 0.253717

Estimated RTT

0.254211,
0.254149,
0.254095,
0.254048,
0.254007,
0.253971

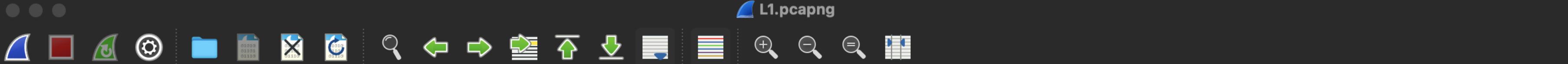


File Edit View Insert Tools Options Help

L1.pcapng

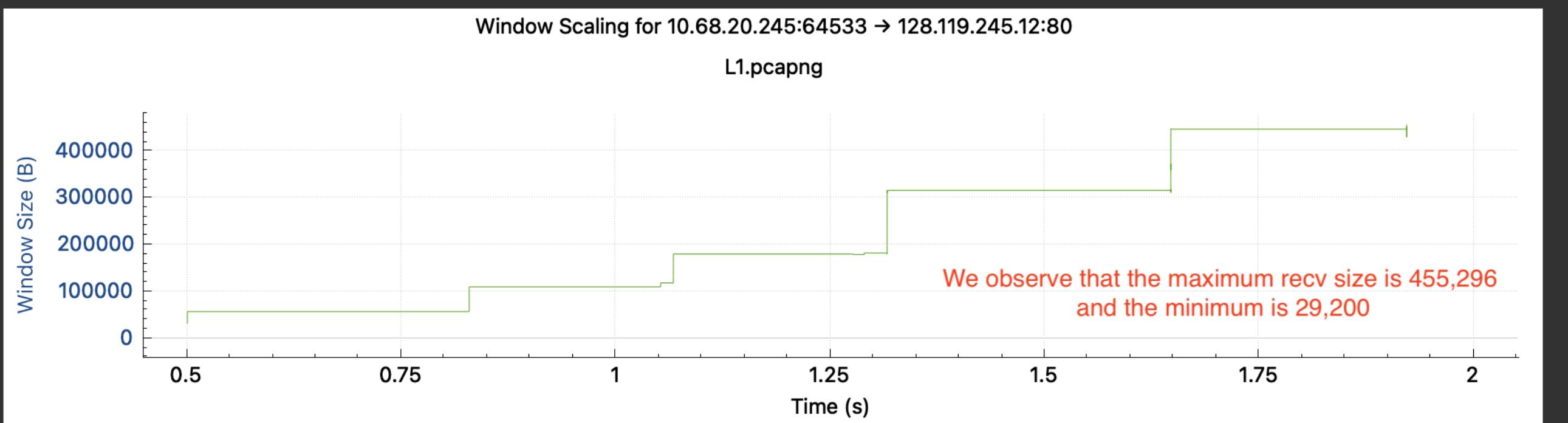
ip.addr == 128.119.245.12

No.	Time	Source	Destination	Protocol	Length	Info
61	1.608816	10.68.20.245	128.119.245.12	TCP	78	64533 → 80 [SYN, ECE, CWR] Seq=0 Win=65535 Len=0 MSS=1460 WS=64 TSval=431278410 TSecr=0 SACK_PERM
87	1.853832	128.119.245.12	10.68.20.245	TCP	66	80 → 64533 [SYN, ACK, ECE] Seq=0 Ack=1 Win=29200 Len=0 MSS=1380 SACK_PERM WS=128
88	1.854844	10.68.20.245	128.119.245.12	TCP	54	64533 → 80 [ACK] Seq=1 Ack=1 Win=262144 Len=0
89	1.855317	10.68.20.245	128.119.245.12	TCP	671	64533 → 80 [PSH, ACK] Seq=1 Ack=1 Win=262144 Len=617 [TCP segment of a reassembled PDU]
90	1.855843	10.68.20.245	128.119.245.12	TCP	197	64533 → 80 [PSH, ACK] Seq=618 Ack=1 Win=262144 Len=143 [TCP segment of a reassembled PDU]
91	1.856382	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=761 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]
92	1.856383	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=2141 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]
93	1.856383	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=3521 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]
94	1.856384	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=4901 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]
95	1.856385	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=6281 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]
96	1.856385	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=7661 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]
97	1.856386	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=9041 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]
98	1.856387	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=10421 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]
99	1.856387	10.68.20.245	128.119.245.12	TCP	1434	64533 → 80 [ACK] Seq=11801 Ack=1 Win=262144 Len=1380 [TCP segment of a reassembled PDU]
100	2.109528	128.119.245.12	10.68.20.245	TCP	60	80 → 64533 [ACK] Seq=1 Ack=618 Win=30464 Len=0
101	2.109555	128.119.245.12	10.68.20.245	TCP	60	80 → 64533 [ACK] Seq=1 Ack=761 Win=31744 Len=0
102	2.109561	128.119.245.12	10.68.20.245	TCP	60	80 → 64533 [ACK] Seq=1 Ack=11801 Win=53760 Len=0
103	2.109575	128.119.245.12	10.68.20.245	TCP	60	80 → 64533 [ACK] Seq=1 Ack=13181 Win=56704 Len=0



No.	Time	Source	Destination	Protocol	Length	Calculated window size	Info
581	3.530949	128.119.245.12	10.68.20.245	HTTP	831	455296	HTTP/1.1 200 OK (text/html)
576	3.530935	128.119.245.12	10.68.20.245	TCP	74	451328	[TCP Dup ACK 444#41] 80 → 64533 [ACK] Seq=1 Ack=319541 Win=451328 Len=0
575	3.530932	128.119.245.12	10.68.20.245	TCP	74	451328	[TCP Dup ACK 444#40] 80 → 64533 [ACK] Seq=1 Ack=319541 Win=451328 Len=0
574	3.530929	128.119.245.12	10.68.20.245	TCP	74	451328	[TCP Dup ACK 444#39] 80 → 64533 [ACK] Seq=1 Ack=319541 Win=451328 Len=0
573	3.530921	128.119.245.12	10.68.20.245	TCP	74	451328	[TCP Dup ACK 444#38] 80 → 64533 [ACK] Seq=1 Ack=319541 Win=451328 Len=0
572	3.530798	128.119.245.12	10.68.20.245	TCP	74	451328	[TCP Dup ACK 444#37] 80 → 64533 [ACK] Seq=1 Ack=319541 Win=451328 Len=0
571	3.530783	128.119.245.12	10.68.20.245	TCP	74	451328	[TCP Dup ACK 444#36] 80 → 64533 [ACK] Seq=1 Ack=319541 Win=451328 Len=0
570	3.530779	128.119.245.12	10.68.20.245	TCP	74	451328	[TCP Dup ACK 444#35] 80 → 64533 [ACK] Seq=1 Ack=319541 Win=451328 Len=0
569	3.530775	128.119.245.12	10.68.20.245	TCP	74	451328	[TCP Dup ACK 444#34] 80 → 64533 [ACK] Seq=1 Ack=319541 Win=451328 Len=0
568	3.530772	128.119.245.12	10.68.20.245	TCP	74	451328	[TCP Dup ACK 444#33] 80 → 64533 [ACK] Seq=1 Ack=319541 Win=451328 Len=0
567	3.530770	128.119.245.12	10.68.20.245	TCP	74	451328	[TCP Dup ACK 444#32] 80 → 64533 [ACK] Seq=1 Ack=319541 Win=451328 Len=0
566	3.530767	128.119.245.12	10.68.20.245	TCP	74	451328	[TCP Dup ACK 444#31] 80 → 64533 [ACK] Seq=1 Ack=319541 Win=451328 Len=0
565	3.530765	128.119.245.12	10.68.20.245	TCP	74	451328	[TCP Dup ACK 444#30] 80 → 64533 [ACK] Seq=1 Ack=319541 Win=451328 Len=0
564	3.530761	128.119.245.12	10.68.20.245	TCP	74	451328	[TCP Dup ACK 444#29] 80 → 64533 [ACK] Seq=1 Ack=319541 Win=451328 Len=0
563	3.530757	128.119.245.12	10.68.20.245	TCP	74	451328	[TCP Dup ACK 444#28] 80 → 64533 [ACK] Seq=1 Ack=319541 Win=451328 Len=0
562	3.530754	128.119.245.12	10.68.20.245	TCP	74	451328	[TCP Dup ACK 444#27] 80 → 64533 [ACK] Seq=1 Ack=319541 Win=451328 Len=0
561	3.530751	128.119.245.12	10.68.20.245	TCP	74	451328	[TCP Dup ACK 444#26] 80 → 64533 [ACK] Seq=1 Ack=319541 Win=451328 Len=0
560	3.530748	128.119.245.12	10.68.20.245	TCP	74	451328	[TCP Dup ACK 444#25] 80 → 64533 [ACK] Seq=1 Ack=319541 Win=451328 Len=0 SLE=2

Sequence
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Window:
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[Window
Checksum
[Checksum
Urgent
[Timest
[Tim
[Tim
[SEQ/A
[iRT
[Byt
[Byt
TCP pay
[P...]



Hover over the graph for details. → 367 pkts, 498 kB ← 114 pkts, 777 bytes

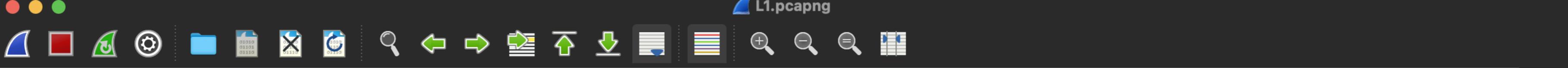
Type Stream Switch Direction

Mouse drags zooms

Rcv Win Bytes Out

Reset

L1.pcapng											
No.	Time	Source	Destination	Protocol	Length	Calculated window size	Info				
581	3.530949	128.119.245.12	10.68.20.245	HTTP	831	455296	HTTP/1.1 200 OK (text/html)				
532	3.256868	10.68.20.245	128.119.245.12	TCP	1434	262144	[TCP Retransmission] 64533 → 80 [PSH, ACK] Seq=404639 Ack=1 Win=262144 Len=13				
531	3.256867	10.68.20.245	128.119.245.12	TCP	1434	262144	[TCP Retransmission] 64533 → 80 [ACK] Seq=322301 Ack=1 Win=262144 Len=13				
530	3.256866	10.68.20.245	128.119.245.12	TCP	1434	262144	[TCP Retransmission] 64533 → 80 [ACK] Seq=320921 Ack=1 Win=262144 Len=13				
529	3.256865	10.68.20.245	128.119.245.12	TCP	1434	262144	[TCP Retransmission] 64533 → 80 [ACK] Seq=319541 Ack=1 Win=262144 Len=13				
528	3.256864	10.68.20.245	128.119.245.12	TCP	1434	262144	[TCP Spurious Retransmission] 64533 → 80 [ACK] Seq=318161 Ack=1 Win=262144 Len=13				
527	3.256863	10.68.20.245	128.119.245.12	TCP	1434	262144	[TCP Spurious Retransmission] 64533 → 80 [ACK] Seq=316781 Ack=1 Win=262144 Len=13				
526	3.256863	10.68.20.245	128.119.245.12	TCP	1434	262144	[TCP Spurious Retransmission] 64533 → 80 [ACK] Seq=315401 Ack=1 Win=262144 Len=13				
525	3.256862	10.68.20.245	128.119.245.12	TCP	1434	262144	[TCP Spurious Retransmission] 64533 → 80 [ACK] Seq=314021 Ack=1 Win=262144 Len=13				
524	3.256861	10.68.20.245	128.119.245.12	TCP	1434	262144	[TCP Spurious Retransmission] 64533 → 80 [ACK] Seq=312641 Ack=1 Win=262144 Len=13				
523	3.256860	10.68.20.245	128.119.245.12	TCP	1434	262144	[TCP Spurious Retransmission] 64533 → 80 [ACK] Seq=311261 Ack=1 Win=262144 Len=13				
521	3.256859	10.68.20.245	128.119.245.12	TCP	1434	262144	[TCP Spurious Retransmission] 64533 → 80 [ACK] Seq=308501 Ack=1 Win=262144 Len=13				
520	3.256858	10.68.20.245	128.119.245.12	TCP	1434	262144	[TCP Spurious Retransmission] 64533 → 80 [ACK] Seq=307121 Ack=1 Win=262144 Len=13				
519	3.256857	10.68.20.245	128.119.245.12	TCP	1434	262144	[TCP Spurious Retransmission] 64533 → 80 [ACK] Seq=305741 Ack=1 Win=262144 Len=13				
518	3.256856	10.68.20.245	128.119.245.12	TCP	1434	262144	[TCP Spurious Retransmission] 64533 → 80 [ACK] Seq=304361 Ack=1 Win=262144 Len=13				
517	3.256855	10.68.20.245	128.119.245.12	TCP	1434	262144	[TCP Spurious Retransmission] 64533 → 80 [ACK] Seq=302981 Ack=1 Win=262144 Len=13				
516	3.256854	10.68.20.245	128.119.245.12	TCP	1434	262144	[TCP Spurious Retransmission] 64533 → 80 [ACK] Seq=301601 Ack=1 Win=262144 Len=13				
515	3.256854	10.68.20.245	128.119.245.12	TCP	1434	262144	[TCP Spurious Retransmission] 64533 → 80 [ACK] Seq=300221 Ack=1 Win=262144 Len=13				
<p>[Next Sequence Number: 406019 (relative sequence number)]</p> <p>Acknowledgment Number: 1 (relative ack number)</p> <p>Acknowledgment number (raw): 530696731</p> <p>0101 = Header Length: 20 bytes (5)</p> <p>> Flags: 0x018 (PSH, ACK)</p> <p>Window: 4096</p> <p>[Calculated window size: 262144]</p> <p>[Window size scaling factor: 64]</p> <p>Checksum: 0xd002 [unverified]</p> <p>[Checksum Status: Unverified]</p> <p>Urgent Pointer: 0</p> <p>> [Timestamps]</p> <p>▼ [SEQ/ACK analysis]</p> <ul style="list-style-type: none"> [iRTT: 0.246028000 seconds] [Bytes in flight: 137214] [Bytes sent since last PSH flag: 92460] <p>▼ [TCP Analysis Flags]</p> <p>> [Expert Info (Note/Sequence): This frame is a (suspected) retransmission]</p> <p>[The RTT for this segment was: 0.000488000 seconds]</p> <p>[RTT based on delta from frame: 465]</p> <p>TCP payload (1380 bytes)</p> <p>[Reassembled PDU in frame: 465]</p> <p>TCP segment data (1380 bytes)</p>											
<p>0020 f5 0c fc 15 00 50 2a e5 d1 7d 1f a1 ca 1b 50 18 . . . P* . } . . P .</p> <p>0030 10 00 d0 02 00 00 33 34 31 39 32 32 20 30 30 30 . . . 34 1922 000</p> <p>0040 30 30 20 6e 0d 0a 30 30 30 30 33 34 31 39 39 37 00 n . . 00 00341997</p> <p>0050 20 30 30 30 30 30 20 6e 0d 0a 30 30 30 30 33 34 00000 n . . 000034</p> <p>0060 33 34 30 32 20 30 30 30 30 30 20 6e 0d 0a 30 30 3402 000 00 n . . 00</p> <p>0070 30 30 33 34 33 34 37 37 20 30 30 30 30 30 20 6e 00343477 00000 n</p> <p>0080 0d 0a 30 30 30 30 33 34 34 38 32 31 20 30 30 30 . . 000034 4821 000</p> <p>0090 30 30 20 6e 0d 0a 30 30 30 30 33 34 34 38 39 36 00 n . . 00 00344896</p> <p>00a0 20 30 30 30 30 20 6e 0d 0a 30 30 30 30 33 34 00000 n . . 000034</p> <p>00b0 36 32 33 39 20 30 30 30 30 30 20 6e 0d 0a 30 30 6239 000 00 n . . 00</p> <p>00c0 30 30 33 34 36 33 31 34 20 30 30 30 30 20 6e 00346314 00000 n</p> <p>00d0 0d 0a 30 30 30 30 33 34 37 39 39 35 20 30 30 30 . . 000034 7995 000</p> <p>00e0 30 30 20 6e 0d 0a 30 30 30 30 33 34 34 38 30 37 30 00 n . . 00 00348070</p> <p>00f0 20 30 30 30 30 20 6e 0d 0a 30 30 30 30 33 34 00000 n . . 000034</p> <p>0100 39 35 37 39 20 30 30 30 30 30 20 6e 0d 0a 30 30 9579 000 00 n . . 00</p> <p>0110 30 30 33 34 39 36 35 34 20 30 30 30 30 20 6e 00349654 00000 n</p> <p>0120 0d 0a 30 30 30 30 33 35 31 32 34 36 20 30 30 30 . . 000035 1246 000</p> <p>0130 30 30 20 6e 0d 0a 30 30 30 30 33 35 31 33 32 31 00 n . . 00 00351321</p> <p>0140 20 30 30 30 30 20 6e 0d 0a 30 30 30 30 33 35 00000 n . . 000035</p> <p>0150 32 39 31 37 20 30 30 30 30 30 20 6e 0d 0a 30 30 2917 000 00 n . . 00</p> <p>0160 30 30 33 35 32 39 39 32 20 30 30 30 30 20 6e 00352992 00000 n</p> <p>0170 0d 0a 30 30 30 30 33 35 34 37 33 39 20 30 30 30 . . 000035 4739 000</p> <p>0180 30 30 20 6e 0d 0a 30 30 30 30 33 35 34 38 31 34 00 n . . 00 00354814</p> <p>0190 20 30 30 30 30 20 6e 0d 0a 30 30 30 30 33 35 00000 n . . 000035</p> <p>01a0 36 32 38 33 20 30 30 30 30 30 20 6e 0d 0a 30 30 6283 000 00 n . . 00</p> <p>01b0 30 30 33 35 36 33 35 38 20 30 30 30 30 20 6e 00356358 00000 n</p> <p>01c0 0d 0a 30 30 30 30 33 35 37 38 30 38 20 30 30 30 . . 000035 7808 000</p>											



No.	Time	Source	Destination	Protocol	Length	Calculated window size	Info
94	1.856384	10.68.20.245	128.119.245.12	TCP	1434	262144	64533 → 80 [ACK] Seq=4901 Ack=1 Win=262144 Len=1380 [TCP segment of a re
95	1.856385	10.68.20.245	128.119.245.12	TCP	1434	262144	64533 → 80 [ACK] Seq=6281 Ack=1 Win=262144 Len=1380 [TCP segment of a re
96	1.856385	10.68.20.245	128.119.245.12	TCP	1434	262144	64533 → 80 [ACK] Seq=7661 Ack=1 Win=262144 Len=1380 [TCP segment of a re
97	1.856386	10.68.20.245	128.119.245.12	TCP	1434	262144	64533 → 80 [ACK] Seq=9041 Ack=1 Win=262144 Len=1380 [TCP segment of a re
98	1.856387	10.68.20.245	128.119.245.12	TCP	1434	262144	64533 → 80 [ACK] Seq=10421 Ack=1 Win=262144 Len=1380 [TCP segment of a re
99	1.856387	10.68.20.245	128.119.245.12	TCP	1434	262144	64533 → 80 [ACK] Seq=11801 Ack=1 Win=262144 Len=1380 [TCP segment of a re
100	2.109528	128.119.245.12	10.68.20.245	TCP	60	30464	80 → 64533 [ACK] Seq=1 Ack=618 Win=30464 Len=0
101	2.109555	128.119.245.12	10.68.20.245	TCP	60	31744	80 → 64533 [ACK] Seq=1 Ack=761 Win=31744 Len=0
102	2.109561	128.119.245.12	10.68.20.245	TCP	60	53760	80 → 64533 [ACK] Seq=1 Ack=11801 Win=53760 Len=0
103	2.109575	128.119.245.12	10.68.20.245	TCP	60	56704	80 → 64533 [ACK] Seq=1 Ack=13181 Win=56704 Len=0
104	2.109668	10.68.20.245	128.119.245.12	TCP	1434	262144	64533 → 80 [ACK] Seq=13181 Ack=1 Win=262144 Len=1380 [TCP segment of a re
105	2.109860	10.68.20.245	128.119.245.12	TCP	1434	262144	64533 → 80 [ACK] Seq=14561 Ack=1 Win=262144 Len=1380 [TCP segment of a re
106	2.109861	10.68.20.245	128.119.245.12	TCP	1434	262144	64533 → 80 [ACK] Seq=15941 Ack=1 Win=262144 Len=1380 [TCP segment of a re
107	2.109862	10.68.20.245	128.119.245.12	TCP	1434	262144	64533 → 80 [ACK] Seq=17321 Ack=1 Win=262144 Len=1380 [TCP segment of a re
108	2.109862	10.68.20.245	128.119.245.12	TCP	1434	262144	64533 → 80 [ACK] Seq=18701 Ack=1 Win=262144 Len=1380 [TCP segment of a re
109	2.109863	10.68.20.245	128.119.245.12	TCP	1434	262144	64533 → 80 [ACK] Seq=20081 Ack=1 Win=262144 Len=1380 [TCP segment of a re
110	2.109864	10.68.20.245	128.119.245.12	TCP	1434	262144	64533 → 80 [ACK] Seq=21461 Ack=1 Win=262144 Len=1380 [TCP segment of a re
111	2.109864	10.68.20.245	128.119.245.12	TCP	1434	262144	64533 → 80 [ACK] Seq=22841 Ack=1 Win=262144 Len=1380 [TCP segment of a re
112	2.109865	10.68.20.245	128.119.245.12	TCP	1434	262144	64533 → 80 [ACK] Seq=24221 Ack=1 Win=262144 Len=1380 [TCP segment of a re
113	2.109866	10.68.20.245	128.119.245.12	TCP	1434	262144	64533 → 80 [ACK] Seq=25601 Ack=1 Win=262144 Len=1380 [TCP segment of a re
114	2.109866	10.68.20.245	128.119.245.12	TCP	1434	262144	64533 → 80 [ACK] Seq=26981 Ack=1 Win=262144 Len=1380 [TCP segment of a re
115	2.109867	10.68.20.245	128.119.245.12	TCP	1434	262144	64533 → 80 [ACK] Seq=28361 Ack=1 Win=262144 Len=1380 [TCP segment of a re
116	2.109868	10.68.20.245	128.119.245.12	TCP	1434	262144	64533 → 80 [ACK] Seq=29741 Ack=1 Win=262144 Len=1380 [TCP segment of a re
117	2.109868	10.68.20.245	128.119.245.12	TCP	1434	262144	64533 → 80 [ACK] Seq=31121 Ack=1 Win=262144 Len=1380 [TCP segment of a re
118	2.109869	10.68.20.245	128.119.245.12	TCP	1434	262144	64533 → 80 [ACK] Seq=32501 Ack=1 Win=262144 Len=1380 [TCP segment of a re
119	2.109869	10.68.20.245	128.119.245.12	TCP	1434	262144	64533 → 80 [ACK] Seq=33881 Ack=1 Win=262144 Len=1380 [TCP segment of a re
120	2.109870	10.68.20.245	128.119.245.12	TCP	1434	262144	64533 → 80 [ACK] Seq=35261 Ack=1 Win=262144 Len=1380 [TCP segment of a re
121	2.109871	10.68.20.245	128.119.245.12	TCP	1434	262144	64533 → 80 [ACK] Seq=36641 Ack=1 Win=262144 Len=1380 [TCP segment of a re
122	2.109871	10.68.20.245	128.119.245.12	TCP	1434	262144	64533 → 80 [ACK] Seq=38021 Ack=1 Win=262144 Len=1380 [TCP segment of a re
123	2.438038	128.119.245.12	10.68.20.245	TCP	60	62208	80 → 64533 [ACK] Seq=1 Ack=15941 Win=62208 Len=0
124	2.438081	128.119.245.12	10.68.20.245	TCP	60	65152	80 → 64533 [ACK] Seq=1 Ack=17321 Win=65152 Len=0

They acknowledge 671 + 197 + (8+1+2+1) * 1434 Bytes of data
Which is 18,076 B of data



ip.addr == 128.119.245.1

A horizontal row of three icons: a red 'X' for close, a blue right-pointing arrow for next, a downward-pointing triangle for dropdown, and a green plus sign for add.

lo.	^	Time	Source	Destination	Protocol	Length	Calculated window size	Info
	564	3.530761	128.119.245.12	10.68.20.245	TCP	74	451328	[TCP Dup ACK 444#29] 80 → 64533 [ACK] Seq=1 Ack=319541 Win=451328 Len=0 S
	565	3.530765	128.119.245.12	10.68.20.245	TCP	74	451328	[TCP Dup ACK 444#30] 80 → 64533 [ACK] Seq=1 Ack=319541 Win=451328 Len=0 S
	566	3.530767	128.119.245.12	10.68.20.245	TCP	74	451328	[TCP Dup ACK 444#31] 80 → 64533 [ACK] Seq=1 Ack=319541 Win=451328 Len=0 S
	567	3.530770	128.119.245.12	10.68.20.245	TCP	74	451328	[TCP Dup ACK 444#32] 80 → 64533 [ACK] Seq=1 Ack=319541 Win=451328 Len=0 S
	568	3.530772	128.119.245.12	10.68.20.245	TCP	74	451328	[TCP Dup ACK 444#33] 80 → 64533 [ACK] Seq=1 Ack=319541 Win=451328 Len=0 S
	569	3.530775	128.119.245.12	10.68.20.245	TCP	74	451328	[TCP Dup ACK 444#34] 80 → 64533 [ACK] Seq=1 Ack=319541 Win=451328 Len=0 S
	570	3.530779	128.119.245.12	10.68.20.245	TCP	74	451328	[TCP Dup ACK 444#35] 80 → 64533 [ACK] Seq=1 Ack=319541 Win=451328 Len=0 S
	571	3.530783	128.119.245.12	10.68.20.245	TCP	74	451328	[TCP Dup ACK 444#36] 80 → 64533 [ACK] Seq=1 Ack=319541 Win=451328 Len=0 S
	572	3.530798	128.119.245.12	10.68.20.245	TCP	74	451328	[TCP Dup ACK 444#37] 80 → 64533 [ACK] Seq=1 Ack=319541 Win=451328 Len=0 S
	573	3.530921	128.119.245.12	10.68.20.245	TCP	74	451328	[TCP Dup ACK 444#38] 80 → 64533 [ACK] Seq=1 Ack=319541 Win=451328 Len=0 S
	574	3.530929	128.119.245.12	10.68.20.245	TCP	74	451328	[TCP Dup ACK 444#39] 80 → 64533 [ACK] Seq=1 Ack=319541 Win=451328 Len=0 S
	575	3.530932	128.119.245.12	10.68.20.245	TCP	74	451328	[TCP Dup ACK 444#40] 80 → 64533 [ACK] Seq=1 Ack=319541 Win=451328 Len=0 S
	576	3.530935	128.119.245.12	10.68.20.245	TCP	74	451328	[TCP Dup ACK 444#41] 80 → 64533 [ACK] Seq=1 Ack=319541 Win=451328 Len=0 S
	577	3.530938	128.119.245.12	10.68.20.245	TCP	66	450048	80 → 64533 [ACK] Seq=1 Ack=320921 Win=450048 Len=0 SLE=323681 SRE=406019
	578	3.530941	128.119.245.12	10.68.20.245	TCP	66	448768	80 → 64533 [ACK] Seq=1 Ack=322301 Win=448768 Len=0 SLE=323681 SRE=406019
	579	3.530944	128.119.245.12	10.68.20.245	TCP	60	429184	80 → 64533 [ACK] Seq=1 Ack=406019 Win=429184 Len=0
	580	3.530946	128.119.245.12	10.68.20.245	TCP	66	429184	[TCP Dup ACK 579#1] 80 → 64533 [ACK] Seq=1 Ack=406019 Win=429184 Len=0 SL
	581	3.530949	128.119.245.12	10.68.20.245	HTTP	831	455296	HTTP/1.1 200 OK (text/html)
	582	3.531157	10.68.20.245	128.119.245.12	TCP	54	261312	64533 → 80 [ACK] Seq=406019 Ack=778 Win=261312 Len=0

```
Arrival Time: Mar  9, 2024 18:01:05.651841000 HKI
UTC Arrival Time: Mar  9, 2024 10:01:05.651841000 UTC
Epoch Arrival Time: 1709978465.651841000
[Time shift for this packet: 0.000000000 seconds]
[Time delta from previous captured frame: 0.000003000 seconds]
[Time delta from previous displayed frame: 0.000003000 seconds]
[Time since reference or first frame: 3.530944000 seconds]
```

```
Frame Number: 579
Frame Length: 60 bytes (480 bits)
Capture Length: 60 bytes (480 bits)
[Frame is marked: False]
[Frame is ignored: False]
[Protocols in frame: eth:ethertype:ip:tcp]
[Coloring Rule Name: HTTP]
[Coloring Rule String: http || tcp.port ==
```

Ethernet II, Src: HuaweiTechno 4c:2f:1e (48:d5:39:4c:2f:1e), Dst: Apple 7a:9a:7b (8c:85:90:7a:)

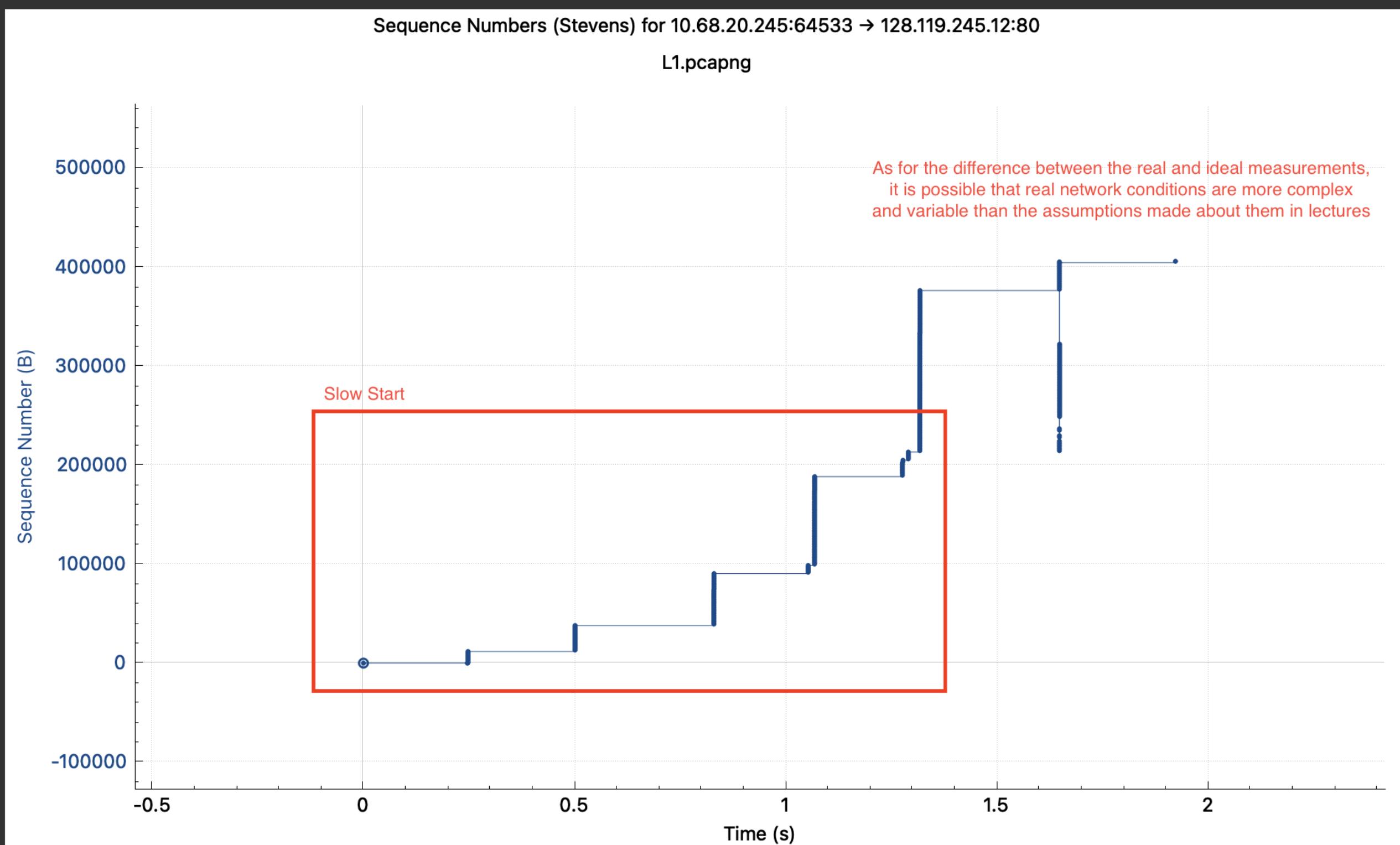
Destination: Apple_7a:9a:7b (8c:85:90:7a:9a:7b)
Source: HuaweiTechno_4c:2f:1e (48:d5:39:4c:2f:1e)
Type: IPv4 (0x0800)
Padding: 000000000000

Padding: 000000000000 Internet Protocol Version 4 Src: 128.119.245.12 Dst: 10.68.20.345

Transmission Control Protocol Src Port: 80 Dst Port: 64533 Seq: 1 Ack: 406019 Len: 0

000	8c	85	90	7a	9a	7b	48	d5	39	4c	2f	1e	08	00	45	00	..	z	{H	9L/	..	E	
010	00	28	34	ff	40	00	24	06	8d	14	80	77	f5	0c	0a	44	..	(4	@	\$..	w	D
020	14	f5	00	50	fc	15	1f	a1	ca	1b	2a	e5	d6	e1	50	10	..	P	*	..	P
030	0d	19	26	15	00	00	00	00	00	00	00	00	00	00	00	00	..	&

$$\begin{aligned}\text{Throughput} &= \text{Total Data} / \text{Total Time} \\ &= 406018 \text{ B} / (3.530944 - 3.256380) \\ &= 1.478.777 \text{ B/s}\end{aligned}$$



Click to select packet 61 (1.609s len 0 seq 0 ack 0 win 65535) → 367 pkts, 498 kB ← 114 pkts, 777 bytes

Type Time / Sequence (Stevens) ▼

Stream 1 ^ ▼

Switch Direction

Mouse ● drags ● zooms

Reset

Help

Close

Save As...