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## CHALLENGE 5

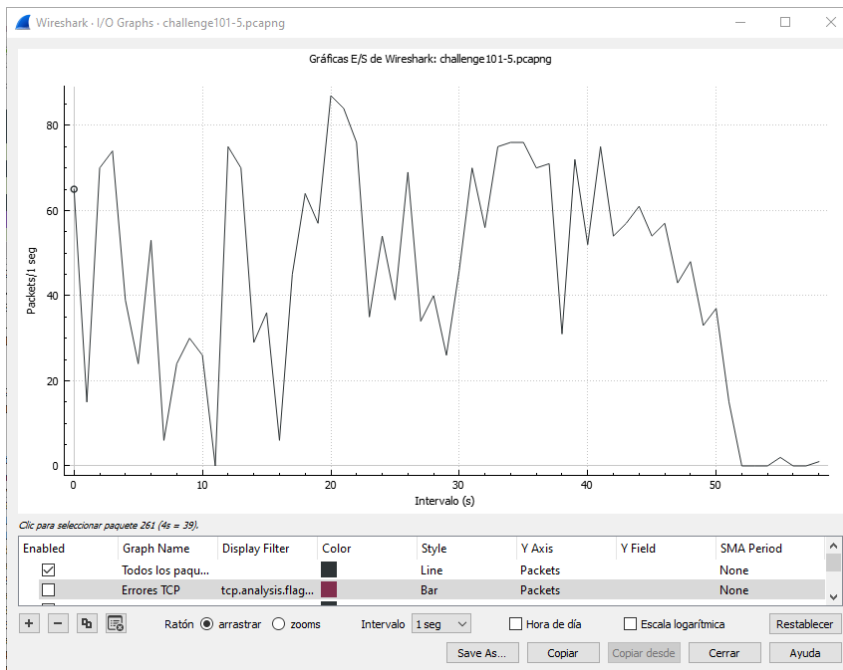
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Open **challenge101-5.pcapng** and use the techniques covered in this chapter to answer these Challenge questions.

### Question 5-1.

Create an IO Graph for this trace file. What is the highest packets-per-second value seen in this trace file?



Un aproximadamente 90 paquetes por segundo.

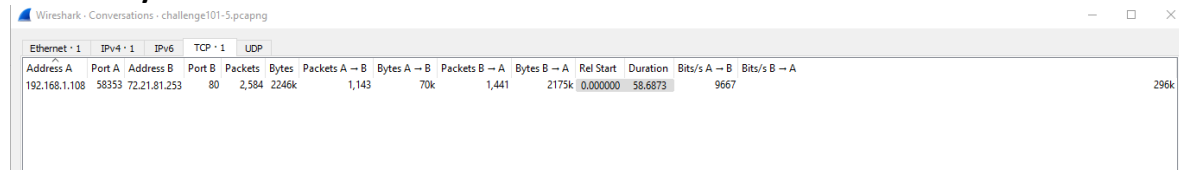
### Question 5-2.

What is the highest bits-per-second value seen in this trace file?

Aproximadamente 630.000 bits por segundo.

### Question 5-3.

How many TCP conversations are in this trace file?



The image shows a Wireshark packet capture window titled "Wireshark - Conversations - challenge101-5.pcapng". The "Conversations" pane on the left shows a single entry for "192.168.1.108" under the "Ethernet" filter. The main packet list pane shows a single packet (packet 1) with details for "Ethernet II", "Internet Protocol Version 4", and "Transmission Control Protocol". The packet details pane shows the "TCP" segment with "Source Port: 58353" and "Destination Port: 80". The packet bytes pane shows the raw packet data.

Address A	Port A	Address B	Port B	Packets	Bytes	Packets A → B	Bytes A → B	Packets B → A	Bytes B → A	Rel Start	Duration	Bits/s A → B	Bits/s B → A
192.168.1.108	58353	72.21.81.253	80	2,584	2246k	1,143	70k	1,441	2175k	0.000000	58.6873	9667	296k

Solo hay una conversación TCP en el archivo de rastreo.

### Question 5-4.

How many times has "Previous segment not captured" been detected in this trace file?

Paquetes: 2584 • Mostrado: 172 (6.7%)

Hay un total de 172 indicaciones del segmento anterior no capturado. Lo más probable es que un dispositivo de interconexión a lo largo de una ruta esté descartando paquetes.

### Question 5-5.

How many retransmissions and fast retransmissions are seen in this trace file?"

Paquetes: 2584 • Mostrado: 183 (7.1%)

Sabemos que tenemos un total de 183 retransmisiones y retransmisiones rápidas combinadas. Estos son los procesos de recuperación para la pérdida de paquetes.