Eric Wang/Xuhui Wang CSC361 P2 documentation

ARP packets:

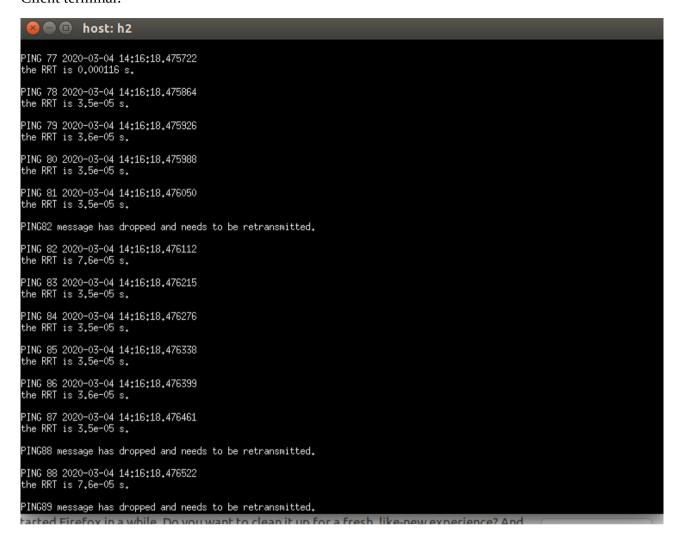
				· · · · · · · · · · · · · · · · · · ·
286 9.087706000	2a:f4:c0:ad:27:1c	8e:9a:e1:90:64:8b	ARP	42 Who has 10.0.0.2? Tell 10.0
287 9.087849000	8e:9a:e1:90:64:8b	2a:f4:c0:ad:27:1c	ARP	42 Who has 10.0.0.1? Tell 10.0
288 9.087855000	2a:f4:c0:ad:27:1c	8e:9a:e1:90:64:8b	ARP	42 10.0.0.1 is at 2a:f4:c0:ad:2
289 9.087884000	8e:9a:e1:90:64:8b	2a:f4:c0:ad:27:1c	ARP	42 10.0.0.2 is at 8e:9a:e1:90:6
200 11 41414400		200 200 200 200	DUCD	242 DUCD Discours Torrestics

UDP packets:

ilter:				▼	Expression Clear	Apply Save		
0.	Time	Source		Destination	Protocol	Length Info		
82	4.086157000	10.0.0.2		10.0.0.1	UDP	76 Source p	ort: 59363	Destina
83	4.086174000	10.0.0.1		10.0.0.2	UDP	76 Source p	ort: http	Destinat
84	4.086219000	10.0.0.2		10.0.0.1	UDP	76 Source p	ort: 59363	Destina
85	4.086236000	10.0.0.1		10.0.0.2	UDP	76 Source p	ort: http	Destinat
86	4.086280000	10.0.0.2		10.0.0.1	UDP	76 Source p	ort: 59363	Destina
87	4.086297000	10.0.0.1		10.0.0.2	UDP	49 Source p	ort: http	Destinat
88	4.086323000	10.0.0.2		10.0.0.1	UDP	76 Source p	ort: 59363	Destina
89	4.086339000	10.0.0.1		10.0.0.2	UDP	49 Source p	ort: http	Destinat
90	4.086364000	10.0.0.2		10.0.0.1	UDP	76 Source p	ort: 59363	Destina
91	4.086379000	10.0.0.1		10.0.0.2	UDP	49 Source p	ort: http	Destinat
92	4.086404000	10.0.0.2		10.0.0.1	UDP	76 Source p	ort: 59363	Destina
93	4.086420000	10.0.0.1		10.0.0.2	UDP	76 Source p	ort: http	Destinat
94	4.086464000	10.0.0.2		10.0.0.1	UDP	76 Source p	ort: 59363	Destina
95	4.086482000	10.0.0.1		10.0.0.2	UDP	76 Source p	ort: http	Destinat
96	4.086526000	10.0.0.2		10.0.0.1	UDP	76 Source p	ort: 59363	Destina
97	4.086543000	10.0.0.1		10.0.0.2	UDP	76 Source p	ort: http	Destinat
98	4.086588000	10.0.0.2		10.0.0.1	UDP	76 Source p	ort: 59363	Destina
99	4.086605000	10.0.0.1		10.0.0.2	UDP	49 Source p	ort: http	Destinat
100	4.086631000	10.0.0.2		10.0.0.1	UDP	76 Source p	ort: 59363	Destina
101	4.086647000	10.0.0.1		10.0.0.2	UDP	76 Source p	ort: http	Destinat
Data (3	34 bytes)	10000		10001	. IIDD	70 0		N±:
	f4 c0 ad 27	10 80 92	61 00 64 8	b 08 00 45 00	*'dE.			
	3e c5 30 40			0 00 02 0a 00	.>.0@.@. a			
				9 6e 67 20 33	P.* .>ping 3			

030 31 20 32 30 32 30 2d 30 33 2d 30 34 20 31 34 3a 1 2020-0 3-04 14:

Client terminal:



Retransmission:

I implemented retransmission on the server side as indicated in the code above:

If the server decides to drop the packet, it sends a string "dropped" to indicate the client that the packet last sent by the client was dropped.

I implemented retransmission on the client side as indicated in the code above:

If the client receives the packet replied by the server containing the string "dropped", it resends the same packet to the server until it gets the right replied packet.

RRT:

I implemented the RRT calculation as indicated in the code above:

Before I send the packet to the server, I get the start timestamp.

I get the end timestamp after I have received the replied packet correctly (including the retransmission time if need).

Then I get the time difference between start and end, which is the RRT.