Q1:

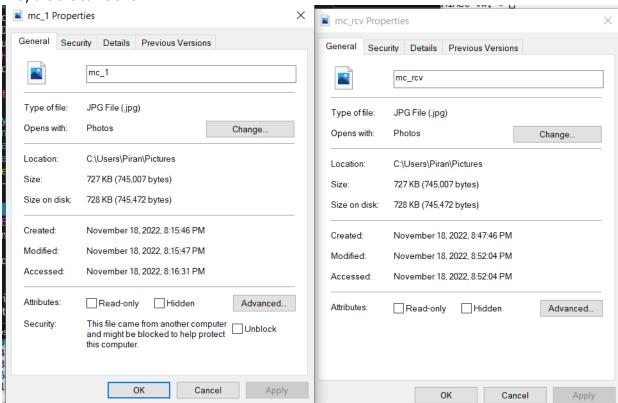
# It takes 5.934728045 seconds to transfer

The packets are sent from node1 to node2 every time. node2 never sends to node1 as shown in the images.

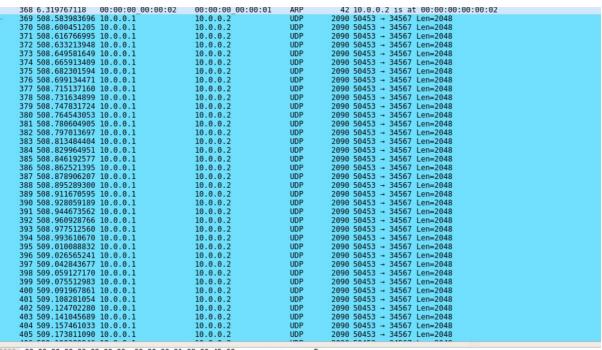
No.	Time	Source	Destination	Protocol	Lengtr Into
F	1 0.000000000	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	2 0.003614260	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	3 0.020009229	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	4 0.036362014	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	5 0.052814465	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	6 0.069245524	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	7 0.085545491	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	8 0.101915112	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	9 0.118282837	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	10 0.134771548	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	11 0.151077765	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	12 0.167551844	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	13 0.183823008	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	14 0.200235948	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	15 0.216732772	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	16 0.233011554	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	17 0.249367278	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	18 0.265785999	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	19 0.282260514	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	20 0.298723850	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	21 0.314900645	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	22 0.331299336	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	23 0.347682295	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	24 0.364038989	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	25 0.380424147	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	26 0.396958886	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	27 0.413407774	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	28 0.429720465	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	29 0.446039360	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	30 0.462397382	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	31 0.478778096	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	32 0.495304590	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	33 0.511805715	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	34 0.528110982	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	35 0.544314549	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	36 0.560980364	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	37 0.577097178	10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
	38 8 503448424	10 0 0 1	10 0 0 2	LIDE	2000 34032 - 34567 Len-2048

J20 J.J44/33204 10.0.0.1	10.0.0.2	UUT	2030 J43J2 7 J4J0/ LCII=2040
329 5.361170782 10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
330 5.377550259 10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
331 5.393992985 10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
332 5.410358797 10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
333 5.426940934 10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
334 5.443394020 10.0.0.1	10.0.0.2	UDP	2090 34932 - 34567 Len=2048
335 5.459636519 10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
336 5.475950234 10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
337 5.492291510 10.0.0.1		UDP	2090 34932 → 34567 Len=2048
	10.0.0.2		
338 5.508639653 10.0.0.1	10.0.0.2	UDP	2090 34932 - 34567 Len=2048
339 5.525298335 10.0.0.1	10.0.0.2	UDP	2090 34932 - 34567 Len=2048
340 5.541454052 10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
341 5.557819524 10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
342 5.574563826 10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
343 5.590640796 10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
344 5.607217256 10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
345 5.623315146 10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
346 5.639906400 10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
347 5.656124246 10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
348 5.672755760 10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
349 5.688952509 10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
350 5.705254210 10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
351 5.721632800 10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
352 5.738018464 10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
353 5.754384316 10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
354 5.770797466 10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
355 5.787261733 10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
356 5.803537626 10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
357 5.819924127 10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
358 5.836310958 10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
359 5.852716985 10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
360 5.869069061 10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
361 5.885464407 10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
362 5.901836681 10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
363 5.918564904 10.0.0.1	10.0.0.2	UDP	2090 34932 → 34567 Len=2048
364 5.934728045 10.0.0.1	10.0.0.2	UDP	1625 34932 → 34567 Len=1583
365 5.947317735 00:00:00 00:00:0	00:00:00 00:00:02	ARP	42 Who has 10.0.0.2? Tell 10.0.0.1
366 6.005411155 00:00:00 00:00:0	01 00:00:00 00:00:02	ARP	42 Who has 10.0.0.2? Tell 10.0.0.1
367 6 320158534 00·00·00 00·00·0	12 60.60.60.60.61	ARP	12 10 0 0 2 is at 00.00.00.00.00

#### They are the same size.



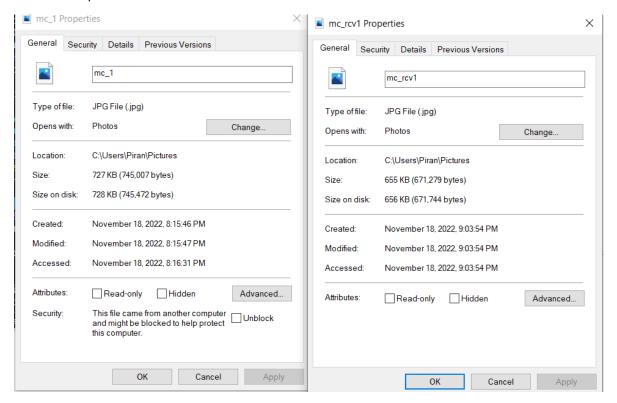
Q3)



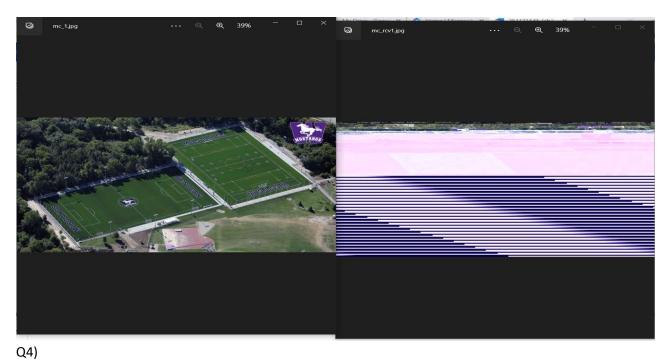
000 00 00 00 00 00 02 00 00 00 00 00 01 08 00 45 00

692 513.876473816 10.0.0.1	10.0.0.2	UDP	2090 50453 → 34567 Len=2046 2090 50453 → 34567 Len=2048
693 513.892498808 10.0.0.1	10.0.0.2	UDP	2090 50453 → 34567 Len=2048
694 513.909215262 10.0.0.1	10.0.0.2	UDP	2090 50453 → 34567 Len=2048
695 513.925194718 10.0.0.1	10.0.0.2	UDP	2090 50453 → 34567 Len=2048
696 513.938134756 10.0.0.1	10.0.0.2	UDP	1625 50453 → 34567 Len=1583
697 513.938467351 00:00:00 00:00:01	00:00:00 00:00:02	ARP	42 Who has 10.0.0.2? Tell 10.0.0.1
698 514.292074555 00:00:00_00:00:02	00:00:00_00:00:01	ARP	42 10.0.0.2 is at 00:00:00:00:00:02

The time elapsed is 513.938134756 - 508.583983696 = 5.3541511 seconds.



For q1 its time is a bit faster for the transfer and for q2 the size differs quite a bit. The picture also differs quite a bit.



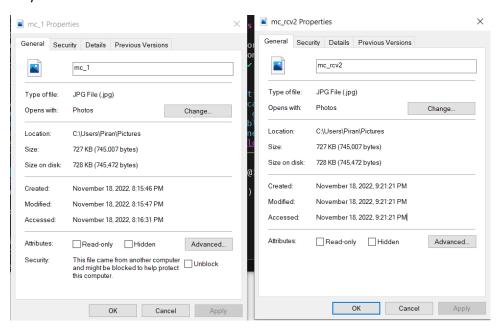
It took a total of 6.742557579. As the screenshots shows, TCP packets are sent by both node 1 and node 2.

1 0.000000000	10.0.0.1	10.0.0.2	TCP		[SYN] Seq=0 Win=29200 Len=0 MSS=1460 SACK_PERM=1 TSval=2186545 TSecr=0
2 0.151206710	10.0.0.2	10.0.0.1	TCP		SYN, ACK] Seq=0 Ack=1 Win=28960 Len=0 MSS=1460 SACK_PERM=1 TSval=21865
3 0.201801436	10.0.0.1	10.0.0.2	TCP		ACK] Seq=1 Ack=1 Win=29696 Len=0 TSval=2186595 TSecr=2186570
4 0.219251712	10.0.0.1	10.0.0.2	TCP		PSH, ACK] Seq=1 Ack=1 Win=29696 Len=2048 TSval=2186595 TSecr=2186570
5 0.231383214	10.0.0.1	10.0.0.2	TCP		ACK] Seq=2049 Ack=1 Win=29696 Len=1448 TSval=2186595 TSecr=2186570
6 0.243456585	10.0.0.1	10.0.0.2	TCP	1514 38178 → 34567 [	ACK] Seq=3497 Ack=1 Win=29696 Len=1448 TSval=2186595 TSecr=2186570
7 0.267916248	10.0.0.1	10.0.0.2	TCP	2962 38178 → 34567 [	ACK] Seq=4945 Ack=1 Win=29696 Len=2896 TSval=2186595 TSecr=2186570
8 0.279808365	10.0.0.1	10.0.0.2	TCP	1514 38178 → 34567 [	ACK] Seq=7841 Ack=1 Win=29696 Len=1448 TSval=2186595 TSecr=2186570
9 0.304004537	10.0.0.1	10.0.0.2	TCP	2962 38178 → 34567 [	ACK] Seq=9289 Ack=1 Win=29696 Len=2896 TSval=2186595 TSecr=2186570
10 0.316338067	10.0.0.1	10.0.0.2	TCP	1514 38178 → 34567 [	ACK] Seq=12185 Ack=1 Win=29696 Len=1448 TSval=2186595 TSecr=2186570
11 0.369981457	10.0.0.2	10.0.0.1	TCP	66 34567 → 38178 [	ACK] Seq=1 Ack=1449 Win=32256 Len=0 TSval=2186625 TSecr=2186595
12 0.369982659	10.0.0.2	10.0.0.1	TCP	66 34567 → 38178 [	ACK] Seq=1 Ack=2049 Win=34816 Len=0 TSval=2186625 TSecr=2186595
13 0.381907318	10.0.0.2	10.0.0.1	TCP	66 34567 → 38178 [	ACK] Seq=1 Ack=3497 Win=37888 Len=0 TSval=2186628 TSecr=2186595
14 0.393704807	10.0.0.2	10.0.0.1	TCP	66 34567 → 38178 [	ACK] Seg=1 Ack=4945 Win=40960 Len=0 TSval=2186631 TSecr=2186595
15 0.418455716	10.0.0.2	10.0.0.1	TCP	66 34567 → 38178 [	ACK] Seq=1 Ack=7841 Win=46592 Len=0 TSval=2186637 TSecr=2186595
16 0.429941834	10.0.0.2	10.0.0.1	TCP		ACK] Seg=1 Ack=9289 Win=49664 Len=0 TSval=2186640 TSecr=2186595
17 0.444373393	10.0.0.1	10.0.0.2	TCP		ACK] Seg=13633 Ack=1 Win=29696 Len=2896 TSval=2186650 TSecr=2186625
18 0.454645646	10.0.0.2	10.0.0.1	TCP		ACK] Seq=1 Ack=12185 Win=55296 Len=0 TSval=2186646 TSecr=2186595
19 0.466655056	10.0.0.2	10.0.0.1	TCP		ACK] Seq=1 Ack=13633 Win=58368 Len=0 TSval=2186649 TSecr=2186595
20 0.468513105	10.0.0.1	10.0.0.2	TCP		ACK] Seq=16529 Ack=1 Win=29696 Len=2896 TSval=2186650 TSecr=2186625
21 0.492710455	10.0.0.1	10.0.0.2	TCP		ACK] Seg=19425 Ack=1 Win=29696 Len=2896 TSval=2186653 TSecr=2186628
22 0.516912463	10.0.0.1	10.0.0.2	TCP		ACK] Seq=22321 Ack=1 Win=29696 Len=2896 TSval=2186656 TSecr=2186631
23 0.541166789	10.0.0.1	10.0.0.2	TCP		ACK] Seg=25217 Ack=1 Win=29696 Len=2896 TSval=2186662 TSecr=2186637
24 0.565363517	10.0.0.1	10.0.0.2	TCP		ACK] Seg=28113 Ack=1 Win=29696 Len=2896 TSval=2186662 TSecr=2186637
25 0.589593378	10.0.0.1	10.0.0.2	TCP		ACK] Seg=31009 Ack=1 Win=29696 Len=2896 TSval=2186665 TSecr=2186640
26 0.594843732	10.0.0.2	10.0.0.1	TCP		ACK] Seg=1 Ack=16529 Win=64000 Len=0 TSval=2186681 TSecr=2186650
27 0.613816376	10.0.0.1	10.0.0.2	TCP		ACK] Seg=33905 Ack=1 Win=29696 Len=2896 TSval=2186671 TSecr=2186646
28 0.619033729	10.0.0.2	10.0.0.1	TCP		ACK] Seq=1 Ack=19425 Win=69632 Len=0 TSval=2186687 TSecr=2186650
29 0.638172621	10.0.0.1	10.0.0.2	TCP		ACK] Seq=36801 Ack=1 Win=29696 Len=2896 TSval=2186671 TSecr=2186646
30 0.643147551	10.0.0.2	10.0.0.1	TCP		ACK] Seq=1 Ack=22321 Win=75776 Len=0 TSval=2186693 TSecr=2186653
31 0.662259009	10.0.0.1	10.0.0.2	TCP		ACK] Seg=39697 Ack=1 Win=29696 Len=2896 TSval=2186674 TSecr=2186649
32 0.667372993	10.0.0.2	10.0.0.1	TCP		ACK] Seg=1 Ack=25217 Win=81408 Len=0 TSval=2186699 TSecr=2186656
33 0.686510495	10.0.0.1	10.0.0.2	TCP		ACK] Seg=42593 Ack=1 Win=29696 Len=2896 TSval=2186706 TSecr=2186681
34 0.691667400	10.0.0.2	10.0.0.1	TCP		ACK] Seg=1 Ack=28113 Win=87040 Len=0 TSval=2186706 TSecr=2186662
35 0.710716119	10.0.0.1	10.0.0.2	TCP		ACK] Seg=45489 Ack=1 Win=29696 Len=2896 TSval=2186706 TSecr=2186681
36 0.715493386	10.0.0.2	10.0.0.1	TCP		ACK] Seg=1 Ack=31009 Win=92672 Len=0 TSval=2186711 TSecr=2186662
37 0.734940395	10.0.0.1	10.0.0.2	TCP		ACK] Seg=48385 Ack=1 Win=29696 Len=2896 TSval=2186712 TSecr=2186687
38 0.740273569	10.0.0.2	10.0.0.1	TCP		ACK] Seq=1 Ack=33905 Win=98816 Len=0 TSval=2186718 TSecr=2186665
39 0.759207458	10.0.0.1	10.0.0.2	TCP		ACK] Seq=51281 Ack=1 Win=29696 Len=2896 TSval=2186712 TSecr=2186687
40 0.764137323	10.0.0.2	10.0.0.1	TCP		ACK] Seg=1 Ack=36801 Win=104448 Len=0 TSval=2186724 TSecr=2186671
	1 /500	11. 1 1 /			X 1000

. Inne	Jource	Destination	FIULULUI	Lengu IIIIO
489 6.183545236	10.0.0.2	10.0.0.1	TCP	66 34567 → 38178 [ACK] Seq=1 Ack=684641 Win=204800 Len=0 TSval=2188078 TSecr=2187898
490 6.202687938	10.0.0.1	10.0.0.2	TCP	2962 38178 → 34567 [ACK] Seq=702017 Ack=1 Win=29696 Len=2896 TSval=2187931 TSecr=2187906
491 6.207821333	10.0.0.2	10.0.0.1	TCP	66 34567 → 38178 [ACK] Seq=1 Ack=687537 Win=204800 Len=0 TSval=2188085 TSecr=2187904
492 6.227342454	10.0.0.1	10.0.0.2	TCP	2962 38178 → 34567 [ACK] Seq=704913 Ack=1 Win=29696 Len=2896 TSval=2187937 TSecr=2187912
493 6.232400888	10.0.0.2	10.0.0.1	TCP	66 34567 → 38178 [ACK] Seq=1 Ack=690433 Win=204800 Len=0 TSval=2188091 TSecr=2187910
494 6.251186924	10.0.0.1	10.0.0.2	TCP	2962 38178 → 34567 [ACK] Seq=707809 Ack=1 Win=29696 Len=2896 TSval=2187943 TSecr=2187918
495 6.256329677	10.0.0.2	10.0.0.1	TCP	66 34567 → 38178 [ACK] Seq=1 Ack=693329 Win=204800 Len=0 TSval=2188097 TSecr=2187919
496 6.275319871	10.0.0.1	10.0.0.2	TCP	2962 38178 → 34567 [ACK] Seq=710705 Ack=1 Win=29696 Len=2896 TSval=2187949 TSecr=2187924
497 6.280713093	10.0.0.2	10.0.0.1	TCP	66 34567 → 38178 [ACK] Seg-1 Ack-696225 Win=204800 Len=0 TSval=2188103 TSecr=2187919
	10.0.0.1	10.0.0.2	TCP	2962 38178 → 34567 [ACK] Seq=713601 Ack=1 Win=29696 Len=2896 TSval=2187955 TSecr=2187930
499 6.304991402	10.0.0.2	10.0.0.1	TCP	66 34567 → 38178 [ACK] Seq=1 Ack=699121 Win=204800 Len=0 TSval=2188109 TSecr=2187925
500 6.323802952	10.0.0.1	10.0.0.2	TCP	2962 38178 → 34567 [ACK] Seq=716497 Ack=1 Win=29696 Len=2896 TSval=2187955 TSecr=2187930
501 6.328929677	10.0.0.2	10.0.0.1	TCP	66 34567 → 38178 [ACK] Seq=1 Ack=702017 Win=204800 Len=0 TSval=2188115 TSecr=2187931
	10.0.0.1	10.0.0.2	TCP	2962 38178 → 34567 [ACK] Seq=719393 Ack=1 Win=29696 Len=2896 TSval=2187961 TSecr=2187936
	10.0.0.2	10.0.0.1	TCP	66 34567 → 38178 [ACK] Seq=1 Ack=704913 Win=204800 Len=0 TSval=2188121 TSecr=2187931
	10.0.0.1	10.0.0.2	TCP	1514 38178 → 34567 [ACK] Seq=722289 Ack=1 Win=29696 Len=1448 TSval=2187967 TSecr=2187942
505 6.377902832	10.0.0.2	10.0.0.1	TCP	66 34567 → 38178 [ACK] Seq=1 Ack=707809 Win=204800 Len=0 TSval=2188127 TSecr=2187937
506 6.384322688	10.0.0.1	10.0.0.2	TCP	2962 38178 → 34567 [ACK] Seq=723737 Ack=1 Win=29696 Len=2896 TSval=2187967 TSecr=2187942
	10.0.0.2	10.0.0.1	TCP	66 34567 → 38178 [ACK] Seq=1 Ack=710705 Win=204800 Len=0 TSval=2188133 TSecr=2187943
	10.0.0.1	10.0.0.2	TCP	2962 38178 → 34567 [ACK] Seq=726633 Ack=1 Win=29696 Len=2896 TSval=2187973 TSecr=2187948
	10.0.0.2	10.0.0.1	TCP	66 34567 → 38178 [ACK] Seq=1 Ack=713601 Win=204800 Len=0 TSval=2188139 TSecr=2187949
	10.0.0.1	10.0.0.2	TCP	2962 38178 → 34567 [ACK] Seq=729529 Ack=1 Win=29696 Len=2896 TSval=2187979 TSecr=2187954
	10.0.0.1	10.0.0.2	TCP	1514 38178 → 34567 [ACK] Seq=732425 Ack=1 Win=29696 Len=1448 TSval=2187979 TSecr=2187954
	10.0.0.2	10.0.0.1	TCP	66 34567 → 38178 [ACK] Seq=1 Ack=716497 Win=204800 Len=0 TSval=2188145 TSecr=2187955
513 6.469127494	10.0.0.1	10.0.0.2	TCP	2962 38178 → 34567 [ACK] Seq=733873 Ack=1 Win=29696 Len=2896 TSval=2187985 TSecr=2187960
	10.0.0.2	10.0.0.1	TCP	66 34567 → 38178 [ACK] Seq=1 Ack=719393 Win=204800 Len=0 TSval=2188151 TSecr=2187955
	10.0.0.1	10.0.0.2	TCP	2962 38178 → 34567 [ACK] Seq=736769 Ack=1 Win=29696 Len=2896 TSval=2187992 TSecr=2187966
516 6.498445208	10.0.0.2	10.0.0.1	TCP	66 34567 → 38178 [ACK] Seq=1 Ack=722289 Win=204800 Len=0 TSval=2188157 TSecr=2187961
517 6.505460420	10.0.0.1	10.0.0.2	TCP	1514 38178 → 34567 [ACK] Seg=739665 Ack=1 Win=29696 Len=1448 TSval=2187992 TSecr=2187966
518 6.529716691	10.0.0.1	10.0.0.2	TCP	2962 38178 → 34567 [ACK] Seq=741113 Ack=1 Win=29696 Len=2896 TSval=2187997 TSecr=2187972
519 6.534561485	10.0.0.2	10.0.0.1	TCP	66 34567 → 38178 [ACK] Seq=1 Ack=726633 Win=204800 Len=0 TSval=2188166 TSecr=2187967
520 6.538198992	10.0.0.1	10.0.0.2	TCP	1065 38178 → 34567 [FIN, PSH, ACK] Seq=744009 Ack=1 Win=29696 Len=999 TSval=2187997 TSecr=2187972
	10.0.0.2	10.0.0.1	TCP	66 34567 → 38178 [ACK] Seg=1 Ack=729529 Win=204800 Len=0 TSval=2188172 TSecr=2187973
522 6.583270373	10.0.0.2	10.0.0.1	TCP	66 34567 → 38178 [ACK] Seq=1 Ack=732425 Win=204800 Len=0 TSval=2188178 TSecr=2187979
523 6.619476361	10.0.0.2	10.0.0.1	TCP	66 34567 → 38178 [ACK] Seq=1 Ack=736769 Win=204800 Len=0 TSval=2188187 TSecr=2187979
	10.0.0.2	10.0.0.1	TCP	66 34567 → 38178 [ACK] Seg=1 Ack=739665 Win=204800 Len=0 TSval=2188193 TSecr=2187992
	10.0.0.2	10.0.0.1	TCP	66 34567 → 38178 [ACK] Seg=1 Ack=744009 Win=204800 Len=0 TSval=2188203 TSecr=2187992
526 6.691986446	10.0.0.2	10.0.0.1	TCP	66 34567 → 38178 [FIN, ACK] Seq=1 Ack=745009 Win=206336 Len=0 TSval=2188206 TSecr=2187997
527 6.742557579	10.0.0.1	10.0.0.2	TCP	66 38178 → 34567 [ACK] Seg=745009 Ack=2 Win=29696 Len=0 TSval=2188231 TSecr=2188206
22. 21. 1222/3/3			10000	

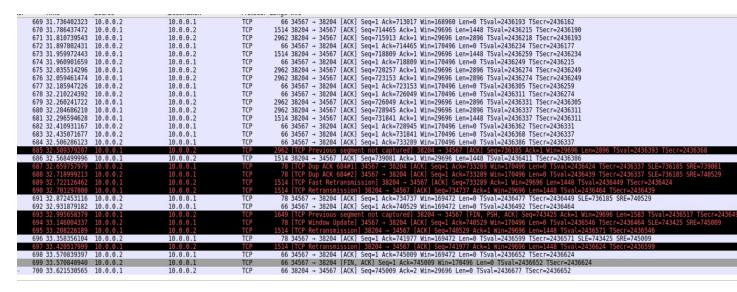
## Q5)

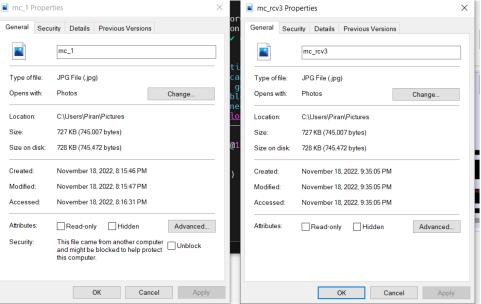
# They are the same size



## Q6)

I took much longer than before with 33.621530565 seconds being the time. Both nodes send the messages





However, the size is still the same unlike before with UDP.

TCP ensures reliable data transfer which allows it to not be affected. Although it took a bit more time, the result is the same.

### Q7) Done

#### Q8)

The plots are different because of the packet loss. 1 percent shows growth and timeouts are when the size drops to minimum segment size. The less packet loss results in the size growing much more than the 10 percent graph. The 1 percent graph continues upward whereas the 10 percent one plateaus very early on. Losses indicate timeouts and TCP as a result sets the window back to minimum segment size. This means there is less chance for loss and more potential for a larger size. This results in a file being transferred much faster.

