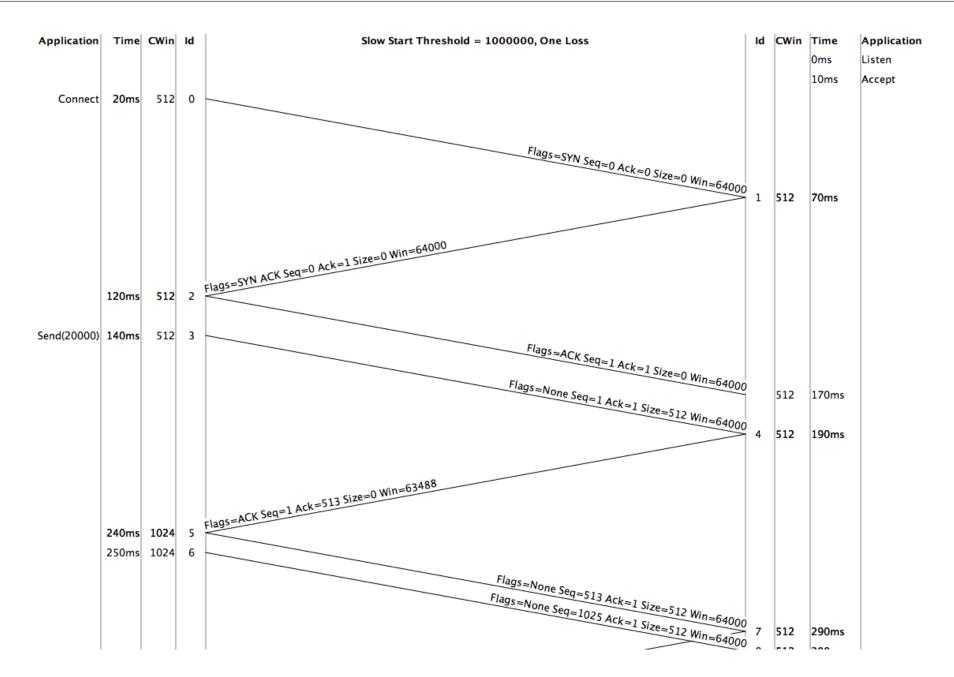
Georgia Tech ECE 6110

TCP Behavior Graph



Georgia Tech ECE 6110 TCP Behavior Graph

	340ms	1536	9	Flags=None Seq=513 Ack=1 Size=512 Win=64000 Flags=None Seq=1025 Ack=1 Size=512 Win=64000 Flags=ACK Seq=1 Ack=1025 Size=0 Win=62464 Flags=ACK Seq=1 Ack=1537 Size=0 Win=62464	7 8	512 512	290ms 300ms	
-	350ms	2048	10					
:	360ms	2048	11	Flags≈No				
:	370ms	2048	12	Flags=Nu				
				Flags=None Seq=1537 Ack=1 Size=512 Win=64000 Flags=None Seq=2049 Ack=1 Size=512 Win=64000 Flags=None Seq=2561 Ack=1 Size=512 Win=64000 Flags=None Seq=3033				
				Flags - None Seq = 2561 Ack - 1 Size = 512 Win = 64000	13	512	390ms	
				Flags=None Seq=2049 Ack=1 Size=512 Win=64000 Flags=None Seq=2561 Ack=1 Size=512 Win=64000 Flags=None Seq=3073 Ack=1 Size=512 Win=64000 Ack=1 Size=512 Win=64000	14	512	400ms	
				$\frac{1}{1} Size = 512 Win = 64000$	15	512	410ms	
				3049 Size=0 Win=61932	16	512	420ms	
				Flags=ACK Seq=1 Ack=2049 Size=0 Win=61952 Flags=ACK Seq=1 Ack=2561 Size=0 Win=61440 Flags=ACK Seq=1 Ack=3673 Size=0 Win=60928 ACK Seq=1 Ack=3673 Size=0 Win=60416				
.	440ms	2560	17	Flags=ACK Seq=1 Ack=2561 Size=0 Win=0928 Flags=ACK Seq=1 Ack=3773 Size=0 Win=60928 Flags=ACK Seq=1 Ack=3785 None Seq=3585 Ack=1 Size=0 Win=60928				
	450ms	3072	18	Flags=ACK Seq=1 Ack=3673 Size=0 Win=60416 Flags=ACK Seq=1 Ack=3585 Size=0 Win=60416				
	460ms	3584	19	Flags=Ack Seq=1 Ack=3585 Some Seq=3585 Ack=1 Size				
.	470ms	4096	20	Flag5=ACK				
	480ms	4096	21	riags=None Seq=4007				
.	490ms	4096		Flags = None Seq = 4097 Ack = 1 Size = 512 Win = 64000 Flags = None Seq = 4609 Ack = 1 Size = 512 Win = 64000 Flags = None Seq = 5121 Ack = 1 Size = 512 Win = 64000 Flags = None Seq = 5633				
	500ms	4096		Flags=None Seq=5121 Ack=1 Size=512 Win=64000 Flags=None Seq=5121 Ack=1 Size=512 Win=64000 Flags=None Seq=5633 Ack=1 Size=512 Win=64000 Flags=None Seq=6146	23	512	495ms 500ms	Recv(20000)->3584
	510ms	4096		Flags=Non 75121 Ack=1 c: Win=64000		512	510ms	
	3101113	1050		Flags=None s		512	520ms	
				$rac{145}{64000}$		512	530ms	
				1 ACK=3585 Size	29	512	540ms	
	550ms	4096		Flags=ACK 3585 Size 3585 Size 3 Win=62464	29	512	550ms	
				Flags=ACK Seq 1 Ack=3585 Size=0 Win=64000				
FastRetransmit	560ms	4096	22	Flags=ACK Seq=1 Ack=3585 Size=0 Win=62464 Flags=ACK Seq=1 Ack=3585 Size=0 Win=62464 Flags=ACK Seq=1 Ack=3585 Size=0 Win=61952 Flags=ACK Seq=1 Ack=3585 Size=0 Win=61952	31	512	560ms	
Fastketransmift !	Jums	3584	37	CONSPICE STATE OF THE STATE OF				

Georgia Tech ECE 6110 TCP Behavior Graph

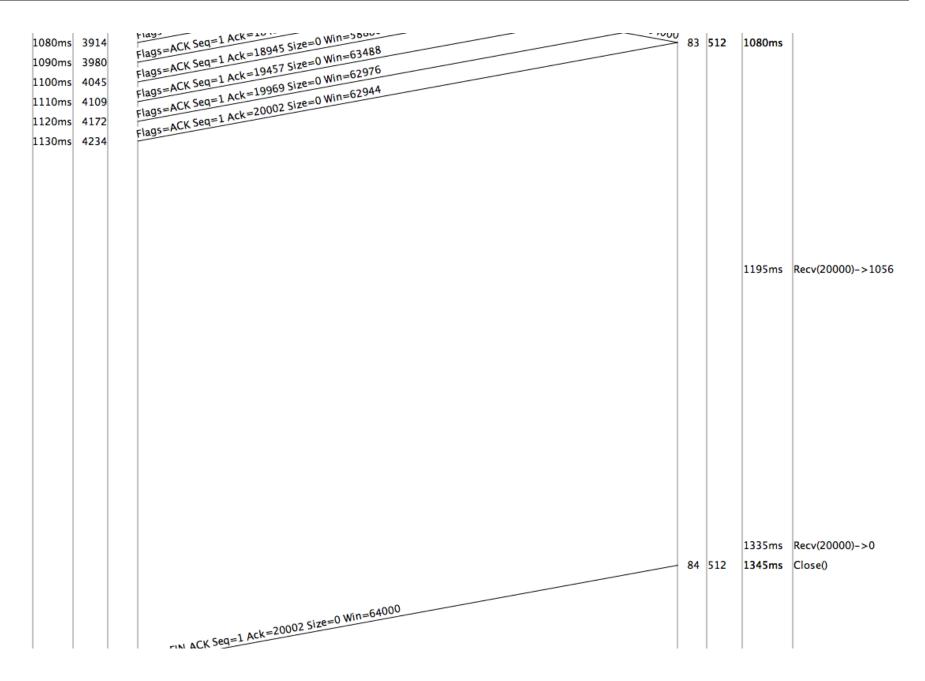
				Flags=ACK Seq=1 Ack=3585 Size=0 Win=62976 Flags=None Seq=7169 Ack=1 Size=512 Win=64000	20	512	540ms	
	550ms	4096		Flags=ACK Seq=1 Ack=3585 Size=0 Win=62976 Flags=None Seq=7169 Ack=1 Size=512 Win=64000 Flags=ACK Seq=1 Ack=3585 Size=0 Win=62464 ACK Seq=1 Ack=3585 Size=0 Win=61952	30	512	550ms	
	560ms			Flags=ACK 3647 1 Ack=3585 Size=0 Win=61952	21	512	560ms	
FastRetransmit				Flags=ACK 364 1 Ack=3585 Size=0 11 11 11 11 11 11 11 11 11 11 11 11 11	31	512	3001115	
rastketransmit	580ms		-	Flags=ACK 3585 Size-0928				
			22	ac = ACK Seq 312e				
	590ms		33	Flags = ACK Seq = 1 Ack = 3585 Size = 0 Win = 60928 Flags = ACK Seq = 1 Ack = 3585 Size = 0 Win = 60928 Flags = ACK Seq = 1 Ack = 3585 Size = 0 Win = 60416 Flags = ACK Seq = 1 Ack = 3585 Size = 0 Win = 60416 Flags = ACK Seq = 1 Ack = 3585 Size = 0 Win = 60416 Flags = None Seq = 3585 Ack = 1 Size = 512 Win = 64000 (retx)				
	600ms		٠.	Flags=ACK SES Size=Size				
	610ms	5632	35	$Flags = N_{OP}$	20	F12	C20	
				Flags = Nor - 7001 Ack = 1 si		512	620ms	
				Flags=None Some Some State Size Size Size Size Size Size Size Siz	2.7	-12	635ms	Recv(20000)->4096
				o win=59904 Seq=8705 Ack=1 Size_512 Win=64000	37	512	640ms	
				1 Ack=7681 Size=64000	-	512	650ms	
	670	2176	40	Flags=ACK 364	39	512	660ms	
	670ms	21/6		1 Ack = 8193 Size a win = 62976				
	500	2200	4.1	Flags=ACK Seq=1 Ack=8705 Size=0 Win=62464 Flags=ACK Seq=1 Ack=9217 Size=0 Win=62464 Flags=ACK Seq=1 Ack=9217 Size=0 Win=62464 Flags=ACK Seq=1 Ack=9217 Size=5 12 Mg				
a . a	690ms		41	Flags=ACK Seq=1 ACK =9217 Size=0 Win=62. Flags=None Seq=9217 Ack=1 Size=512 Win=64000				
Close()				Flags=ACK 3CH Ack=1 Size				
	710ms	2518	43	Flags N				
				Flags = Non-		512	720ms	
				Flags=None Seq=10241 Ack=1 Size=512 Win=64000 Flags=None Seq=10753 Ack=1 Size=512 Win=64000 Seq=10753 Ack=1 Size=512 Win=64000				
				$\frac{3eq=10753}{3eq=10753}$ Ack=1 Size 5	45	512	740ms	
				3.000 = 9729 = 5120		512	750ms	
				Flags=ACK 369	47	512	760ms	
	770ms			1.4 ck = 10241312			775ms	Recv(20000)->3584
	780ms		49	Flags=ACK Seq=1 Ack=10241 Size=0 Win=61440 Flags=ACK Seq=1 Ack=10753 Size=0 Win=60928 Flags=ACK Seq=1 Ack=10753 Size=0 Win=60416 Flags=ACK Seq=1 Ack=11265 Size=0 Win=60416 Flags=ACK Seq=1 Ack=11265 Size=0 Win=60416				
	790ms		50	Flags = Non-				
	800ms			Flags = None a 2005 Ack = 1 si				
	810ms	2910	52	Flags=None c				
				Flags = None seq=12289 Ack=1 size=512 Win=64000	53	512	820ms	
				Flags = None Seq = 12289 Ack = 1 Size = 512 Win = 64000 Flags = None Seq = 12801 Ack = 1 Size = 512 Win = 64000 Flags = None Seq = 13313 Ack = 1 Size = 512 Win = 64000	54	512	830ms	
				312e=512 Win-C	55	512	840ms	

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			- Later No.				
810ms	2910	52	Flags=None Seq=1	1777 Ack=1 Size=512 Win=64000			
			Flactorial Seq = 1	1777 Ack=1 Size=512 Win=64000 2289 Ack=1 Size=512 Win=64000 53	51	2 820ms	
			Flags=None Seq=1	1777 Ack=1 Size=512 Win=64000 2289 Ack=1 Size=512 Win=64000 2801 Ack=1 Size=512 Win=64000 53215 Size=512 Win=64000	51	2 830ms	
			riags=None Seq=1	2289 Ack=1 Size=512 Win=64000 2801 Ack=1 Size=512 Win=64000 3313 Ack=1 Size=512 Win=64000 553313 Ack=1 Size=512 Win=64000	51	2 840ms	
			Flags=ACK Seq=1 Ack=11777 Size=0 Win=63488 Flags=ACK Seq=1 Ack=12289 Size=0 Win=62976 ACK Seq=1 Ack=12289 Size=0 Win=62464	2801 Ack=1 Size=512 Win=64000 3313 Ack=1 Size=512 Win=64000 55	51	2 850ms	
			Flags=ACK Seq=1 Ack=11777 Size=0 Win=62976 Flags=ACK Seq=1 Ack=1289 Size=0 Win=62976 Flags=ACK Seq=1 Ack=12801 Size=0 Win=62464	57 57 57 57 57 57 57 57 57 57 57 57 57 5	51	2 860ms	
870ms	3000	58	Flags=ACK Seq=1 Ack=12289 Size=0 Win=62464 Flags=ACK Seq=1 Ack=12801 Size=0 Win=61952 Flags=ACK Seq=1 Ack=13313 Size=0 Win=61440				
880ms	3087	59	Flags=ACK Seg=1 Ack=12801 5120				
890ms		60	Flags=ACK Seq=1 Ack=12801 Size=0 Win=61952 Flags=ACK Seq=1 Ack=13313 Size=0 Win=61440 Flags=ACK Seq=1 Ack=13825 Size=0 Win=61440 Flags=ACK Seq=1 Ack=13825 Size=0 Win=61440 Flags=None Seq=1				
900ms		61	Flags=ACK Seg=1 Ack=13825 Size Flags=None Seg=1	3825 Ack=1 Size=512 Win=64000 4337 Ack=1 Size=512 Win=64000			
910ms	3333	62	Flags=ACK Seq=1	2025 Ack=1 Size=512 Wi			
920ms			Flags = Non-	3825 Ack=1 Size=512 Win=64000 4337 Ack=1 Size=512 Win=64000 4849 Ack=1 Size=512 Win=64000 65365	51	915ms 2 920ms	Recv(20000)->2560
		•	Flags=None Seg=1	4337 Ack=1 Size=512 Win=64000 4849 Ack=1 Size=512 Win=64000 5361 Ack=1 Size=512 Win=64000 65873 Ack=1 Size=512 Win=64000 67873 Ack=1 Size=512 Win=64000	51		
			Flags=None c	3561 Ack=1 c. Win=64000	51	_	
			None S	36/3 Ack=1 ci64000	51	_	
			1 Ack=14337 Size	3385 Ack=1 Size=512 W	51		
970ms	3411	60	Flags=ACK 3124 1 Ack=14849 3124 11 n=62464	<i>™n</i> =64000	51		
980ms			Flags=ACK 364 1 Ack=15361 SIZE		31	2 9701115	
990ms			Elags=ACK 61440				
		72	Elags=ACK 60928 Flags=None a				
1000ms		73	Flags=ACK	9897 Ack=1 Size=512			
1010ms			Flags = Non-	6897 Ack=1 Size=512 Win=64000 7409 Ack=1 Size=512 Win=64000 7921 Ack=1 Size=512 Win=64000 8433 Ack=1 Size=512 Win=64000 79		2 1020	
1020ms			Flags≡No	7321 Ack=1 c. Win=64000	51	_	
1030ms	3777		Flags=None c	0433 Ack-1 a. Win=64000	51		
			None So.	0945 Ack=1 si	51	_	
			1 ACK=17409 SIZE SUID=59904 Flags=FINIC	8433 Ack=1 Size=512 Win=64000 8945 Ack=1 Size=512 Win=64000 9457 Ack=1 Size=512 Win=64000 19969 Ack=1 Size=32 Win=64000 81	51	1055ms	Recv(20000)->5120
			Flags=ACK Seq=1 ACK =17921 Size=0 WIII=59392	19969 Ack=1 s: 81	51		
1070ms	3846		Flags=ACK Seq=1 Ack=17409 Size=0 Win=59904 Flags=FIN Seq=1 Flags=ACK Seq=1 Ack=17921 Size=0 Win=59392 Flags=ACK Seq=1 Ack=18433 Size=0 Win=58880	Win=64000	51		
1080ms			Flags=ACK Seq=1 Ack=17921 Size=0 Win=59392 Flags=ACK Seq=1 Ack=18433 Size=0 Win=59392 Flags=ACK Seq=1 Ack=18945 Size=0 Win=58880 Flags=ACK Seq=1 Ack=18945 Size=0 Win=63488 Flags=ACK Seq=1 Ack=19457 Size=0 Win=63488	83	51	2 1080ms	
1090ms	3980		Flags=ACK Seq=1 Ack=18945 Size=0 Win=63488 Flags=ACK Seq=1 Ack=19457 Size=0 Win=63488 Flags=ACK Seq=1 Ack=19969 Size=0 Win=62976 Flags=ACK Seq=1 Ack=19969 Size=0 Win=62944				
1100ms	4045		Flags=ACK Seq=1 ACK = 19969 Size=0 Win=02944				
1110ms	4109		Flags=ACK Seq=1 Ack=19457 Size=0 Win=62976 Flags=ACK Seq=1 Ack=19969 Size=0 Win=62944				

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