

# Pathological Case

Notice the 30+ second pause between Packet #8 and Packet #9 ... and between Packet #11 and Packet #12. Who is waiting for whom? Notice how the number in the Byte column jumps from ~100+ bytes to 1514 bytes around Packet #30. This is where the actual file copy begins. The rest of the trace consists of ~11,000 of these large packets flowing from Client to Indigo, completing in ~1.3 seconds. The total time required to copy this file was ~66 seconds -- how long did the Client spend waiting and how long did the Client spend copying the file?

No. *	Time	Bytes	Source	Destination	Protocol	Info
1	0.0000000000	160	Client	Indigo	SMB	Trans2 Request, QUERY_PATH_INFO, query File Basic Info, Path: \blueheat.txt
2	0.000393152	158	Indigo	Client	SMB	Trans2 Response, QUERY_PATH_INFO
3	0.000016690	160	Client	Indigo	SMB	Trans2 Request, QUERY_PATH_INFO, query File Standard Info, Path: \blueheat.t
4	0.000371217	142	Indigo	Client	SMB	Trans2 Response, QUERY_PATH_INFO
5	0.000230551	170	Client	Indigo	SMB	NT Create Andx Request, Path: \blueheat.txt
6	0.000211239	161	Indigo	Client	SMB	NT Create Andx Response, FID: 0x0004
7	0.000015974	142	Client	Indigo	SMB	Trans2 Request, SET_FILE_INFO, FID: 0x0004
8	0.199042797	60	Indigo	Client	TCP	netbios-ssn > 1087 [ACK] seq=299 Ack=416 win=64240 Len=0
9	33.797281265	107	Client	Indigo	SMB	Echo Request
10	0.000020027	107	Indigo	Client	SMB	Echo Response
11	0.174318314	60	Client	Indigo	TCP	1087 > netbios-ssn [ACK] seq=469 Ack=352 win=64001 Len=0
12	30.128437281	130	Indigo	Client	SMB	NT Trans Response, <unknown>
13	0.000024318	130	Indigo	Client	SMB	NT Trans Response, <unknown>
14	0.000015974	118	Indigo	Client	SMB	Trans2 Response, SET_FILE_INFO
15	0.000015021	60	Client	Indigo	TCP	1087 > netbios-ssn [ACK] seq=469 Ack=504 win=63849 Len=0
16	0.000015020	142	Client	Indigo	SMB	NT Trans Request, NT NOTIFY, FID: 0x0006
17	0.000212193	99	Client	Indigo	SMB	Close Request, FID: 0x0004
18	0.000015735	60	Indigo	Client	TCP	netbios-ssn > 1087 [ACK] seq=568 Ack=602 win=64240 Len=0
19	0.000014305	142	Client	Indigo	SMB	NT Trans Request, NT NOTIFY, FID: 0x0007
20	0.002454758	93	Indigo	Client	SMB	Close Response
21	0.004034758	170	Client	Indigo	SMB	NT Create Andx Request, Path: \blueheat.txt
22	0.002644062	161	Indigo	Client	SMB	NT Create Andx Response, FID: 0x0002
23	0.000211239	128	Client	Indigo	SMB	Trans2 Request, QUERY_FS_INFO, query FS Attribute Info
24	0.000015974	134	Indigo	Client	SMB	Trans2 Response, QUERY_FS_INFO
25	0.000209570	142	Client	Indigo	SMB	Trans2 Request, SET_FILE_INFO, FID: 0x0002
26	0.001624107	130	Indigo	Client	SMB	NT Trans Response, NT NOTIFY
27	0.000015974	130	Indigo	Client	SMB	NT Trans Response, NT NOTIFY
28	0.000015020	118	Indigo	Client	SMB	Trans2 Response, SET_FILE_INFO
29	0.000015021	60	Client	Indigo	TCP	1087 > netbios-ssn [ACK] seq=968 Ack=946 win=63407 Len=0
30	0.000295877	1514	Client	Indigo	SMB	Write Andx Request, FID: 0x0002, 61440 bytes at offset 0
31	0.000018597	1514	Client	Indigo	TCP	[Continuation to #30] 1087 > netbios-ssn [ACK] seq=2428 Ack=1010 win=63343 L
32	0.000224590	1514	Client	Indigo	TCP	[Continuation to #30] 1087 > netbios-ssn [ACK] seq=3888 Ack=1010 win=63343 L
33	0.000018358	1514	Client	Indigo	TCP	[Continuation to #30] 1087 > netbios-ssn [ACK] seq=5348 Ack=1010 win=63343 L
34	0.000016690	60	Indigo	Client	TCP	netbios-ssn > 1087 [ACK] seq=1010 Ack=3888 win=64240 Len=0
35	0.000217199	1514	Client	Indigo	TCP	[Continuation to #30] 1087 > netbios-ssn [ACK] seq=6808 Ack=1010 win=63343 L
36	0.000017643	60	Indigo	Client	TCP	netbios-ssn > 1087 [ACK] seq=1010 Ack=6808 win=64240 Len=0
37	0.000014067	1514	Client	Indigo	TCP	[Continuation to #30] 1087 > netbios-ssn [ACK] seq=8268 Ack=1010 win=63343 L
38	0.000220537	1514	Client	Indigo	TCP	[Continuation to #30] 1087 > netbios-ssn [ACK] seq=9728 Ack=1010 win=63343 L
39	0.000016689	60	Indigo	Client	TCP	netbios-ssn > 1087 [ACK] seq=1010 Ack=9728 win=64240 Len=0
40	0.000015021	1514	Client	Indigo	TCP	[Continuation to #30] 1087 > netbios-ssn [ACK] seq=11188 Ack=1010 win=63343 L
41	0.000217199	1514	Client	Indigo	TCP	[Continuation to #30] 1087 > netbios-ssn [ACK] seq=12648 Ack=1010 win=63343 L
42	0.000020027	1514	Client	Indigo	TCP	[Continuation to #30] 1087 > netbios-ssn [ACK] seq=14108 Ack=1010 win=63343 L