

CS425: Assignment 2

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14282

ETHERNET

1. The Ethernet Address of my Computer will be the source IP which is: 00:d0:59:a9:3d:68
2. The destination Address is : 00:06:25:da:af:73 which is not the ethernet address of gaia.cs.umass.edu but the address of the source router.
3. The hex value is : 0x0800. The higher layer protocol is IPv4.
4. The 'G' comes after 54 bytes of the start of the Ethernet Frame.

No.	Time	Source	Destination	Protocol	Length	Info
10	17.466468	192.168.1.105	128.119.245.12	HTTP	686	GET /ethereal-labs/HTTP-ethereal-lab-file3.html HTTP/1.1
16	17.527422	128.119.245.12	192.168.1.105	HTTP	489	HTTP/1.1 200 OK (text/html)

▶ Frame 10: 686 bytes on wire (5488 bits), 686 bytes captured (5488 bits)	
▼ Ethernet II, Src: AmbitMic_a9:3d:68 (00:d0:59:a9:3d:68), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)	
▶ Destination: LinksysG_da:af:73 (00:06:25:da:af:73)	2
▶ Source: AmbitMic_a9:3d:68 (00:d0:59:a9:3d:68)	1
Type: IPv4 (0x0800)	
▶ Internet Protocol Version 4, Src: 192.168.1.105, Dst: 128.119.245.12	
▶ Transmission Control Protocol, Src Port: 1058, Dst Port: 80, Seq: 1, Ack: 1, Len: 632	
▶ Hypertext Transfer Protocol	

0000	00 06 25 da af 73 00 d0 59 a9 3d 68 08 00 45 00	...s...Y.=h..E.
0010	02 a0 00 fa 40 00 80 06 bf c8 c0 a8 01 69 80 77	...@...i.W
0020	f5 0c 04 22 00 50 65 14 99 a7 ac a5 3f b4 50 18	...P...?P.
0030	fa f0 7e 4f 00 00 47 45 54 20 2f 65 74 68 65 72	...D...G.../ether
0040	65 61 6c 2d 6c 61 62 73 2f 48 54 54 50 2d 65 74	...eal-labs/HTTP-et
0050	68 65 72 65 61 6c 2d 6c 61 62 2d 66 69 6c 65 33	...hereal-...-file3
0060	2e 68 74 6d 6c 29 48 54 54 50 2f 31 2e 31 0d 6a	...html HTTP/1.1..
0070	48 6f 73 74 3a 20 67 61 69 61 2e 63 73 2e 75 6d	Host: ga ia.cs.um

5. The ethernet source address is: 00:06:25:da:af:73 which is the address of source router (my router).
6. The destination address is 00:d0:59:a9:3d:68 which is the address of my computer.
7. The hex value is : 0x0800. The higher layer protocol is IPv4.
8. The 'O' comes after 68 bytes of the start of the Ethernet Frame.

No.	Time	Source	Destination	Protocol	Length	Info
10	17.466468	192.168.1.105	128.119.245.12	HTTP	686	GET /ethereal-labs/HTTP-
16	17.527422	128.119.245.12	192.168.1.105	HTTP	489	HTTP/1.1 200 OK (text/h

▶ Frame 16: 489 bytes on wire (3912 bits), 489 bytes captured (3912 bits)	
▼ Ethernet II, Src: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: AmbitMic_a9:3d:68 (00:d0:59:a9:3d:68)	
▶ Destination: AmbitMic_a9:3d:68 (00:d0:59:a9:3d:68)	6
▶ Source: LinksysG_da:af:73 (00:06:25:da:af:73)	5
Type: IPv4 (0x0800)	
▶ Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.105	
▶ Transmission Control Protocol, Src Port: 80, Dst Port: 1058, Seq: 4381, Ack: 633, Len: 435	
▶ [4 Reassembled TCP Segments (4815 bytes): #12(1460), #13(1460), #15(1460), #16(435)]	
▶ Hypertext Transfer Protocol	
▶ Line-based text data: text/html	

0000	48 54 54 50 2f 31 2e 31 20 32 30 30 20 4f 4b 0d	HTTP/1.1 200 OK
0010	0a 44 61 74 65 3a 20 53 61 74 2c 20 32 30 20 41	.Date: Sat, 28 A
0020	75 67 20 32 30 30 34 20 31 37 3a 31 39 3a 33 37	ug 2004 17:19:37
0030	20 47 4d 54 0d 0a 53 65 72 76 65 72 3a 20 41 70	GMT..Se rver: Ap
0040	61 63 68 65 2f 32 2e 30 2e 34 30 20 28 52 65 64	ache/2.0 .40 (Red