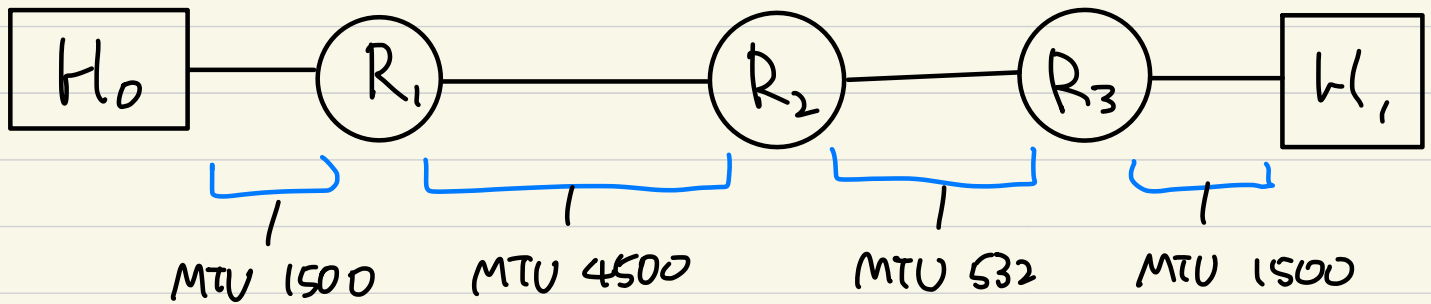
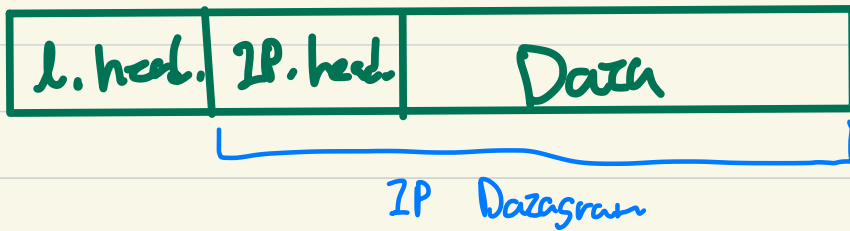


Problem



$H_0 \rightarrow H_1$

identifier	x
MF/DF	0
Total len	1420

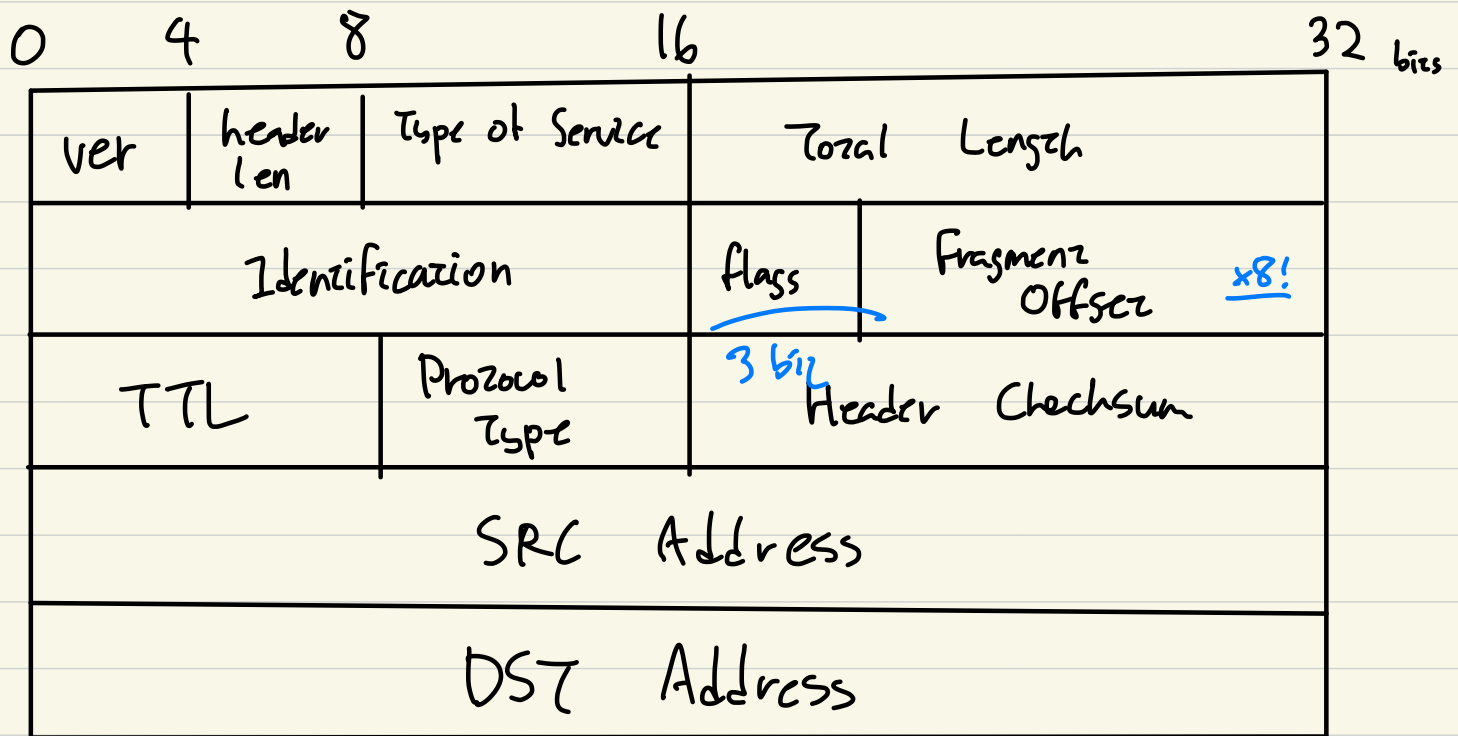


Properties of individual "Link"

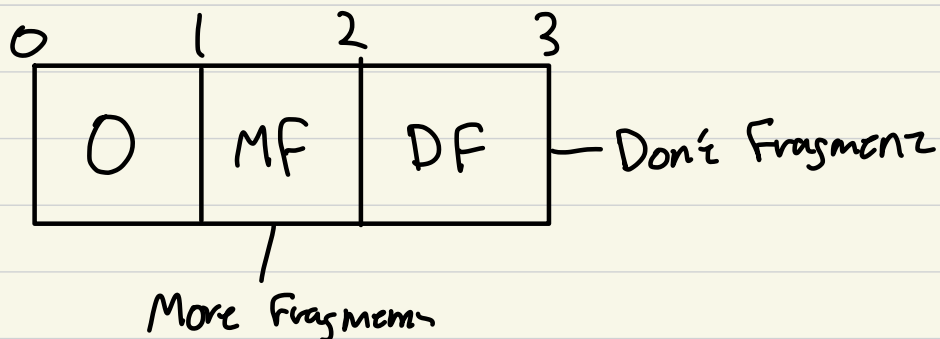
MTU: Maximum Transmission Unit

* Does NOT include Link Header's Length

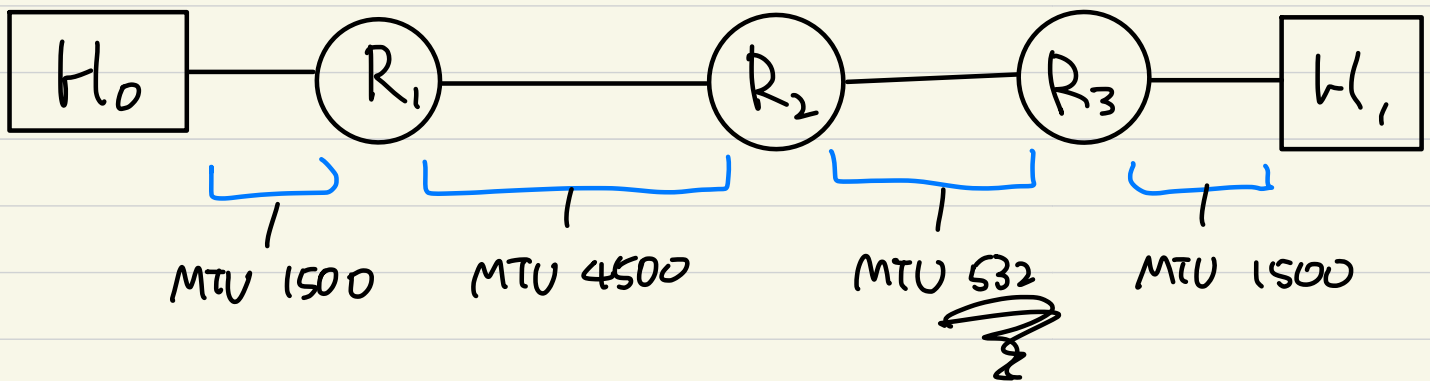
IPv4 Header



IPv4 Header: Flags



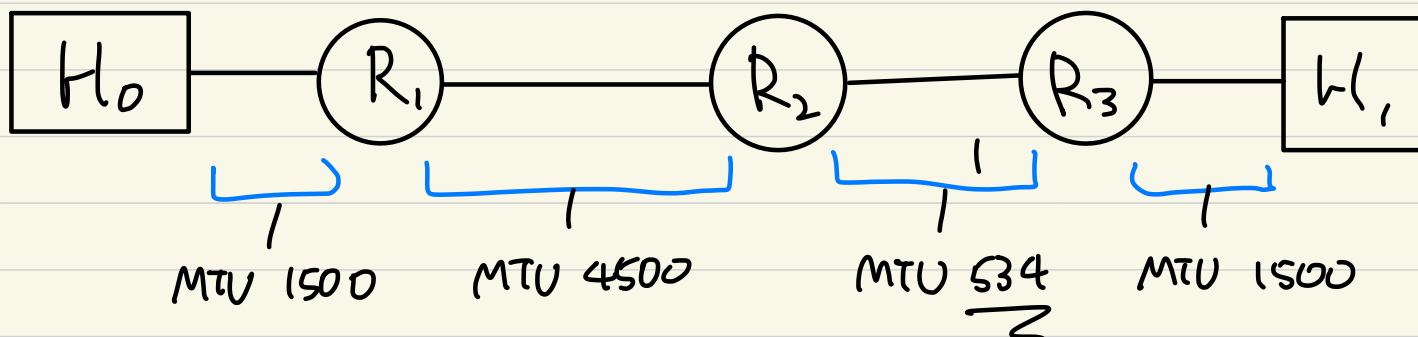
Example



~~$H_0 \rightarrow H_1$~~

identifizier (x)
 MF/DF 0
 Total len 1420

	f_0	f_1	f_2
identifiz	x	x	x
MF	1	1	0
DF	0	0	0
(offset value)	0	512	1024
offset field	0	64	128
(data size)	512	512	396
total len	532	532	396



$H_0 \rightarrow H_1$

identifizier $\times$

MF/DF 0

Total len 1420

1460

	f_0	f_1	f_2
identz	$\times$	$\times$	$\times$
MF	1	1	0
DF	0	0	0
(offset value)	0	512	1024
offset field	0	64	128
(data size)	512	512	301
total len	532	532	391

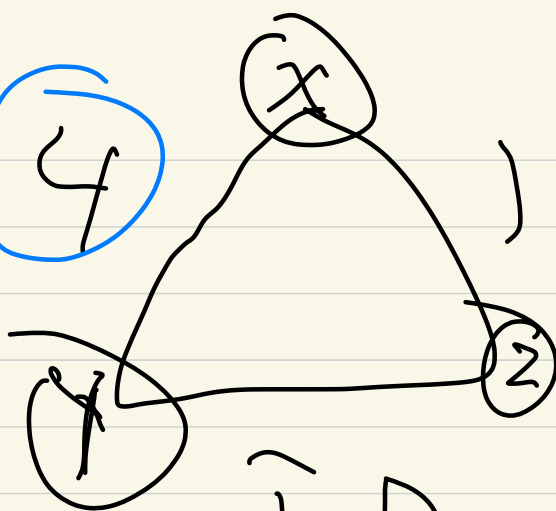
Abuse

IP Fragmentation Attack

DON'T ATTEMPT!!!

DV

4



50

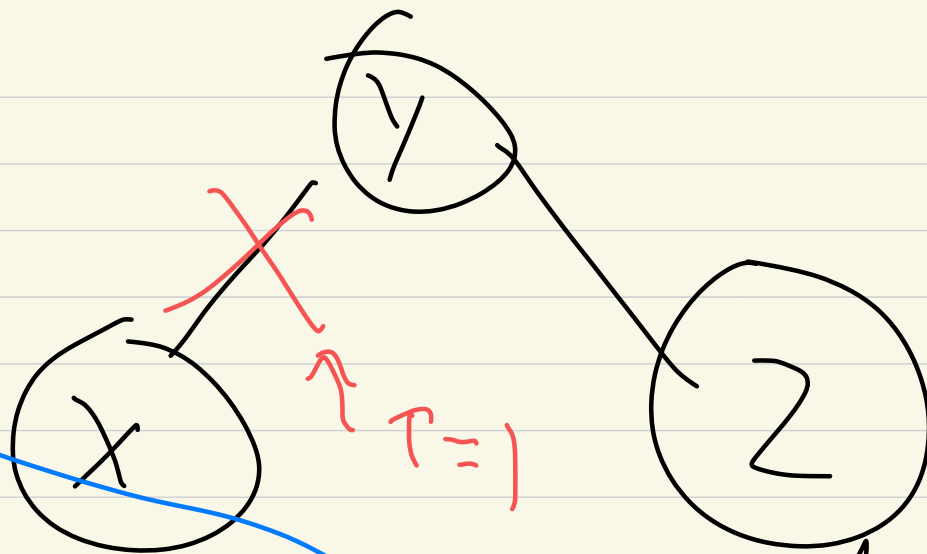
~~| src | dest | cost | NH |
|-----|------|------|----|
| 4 | 5 | 1 | |~~

src	dest	cost	NH
4	5	1	

eth1

outgoing

forwarding



$T_2 D$

	X	Y	Z
X	0	1	2
Y	1	0	1
Z	2	1	0

desc

	X	Y	Z
X	0	∞	∞
Y	3	0	1
Z	2	1	0

view

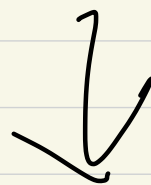
Split horizon

2 receive from Y

(X, 1)

dest 10H

(X, 2) to Y



0	∞	∞
4	0	1
3	1	0

poison reverse

$z(x, \infty)$ to y

