Sept-30-2017

Start designing and Perf. #6

Read

Network Perf. notes

on homework page.

HW #6

1. a) 173.94.75.247

Longest prefix first 127.224

178.94.75.247 (111 0 11 247)

Basic AND

255.255.255.224 (1110 0000 224)

173.94.75.224 not in table
Use default

\[ 172.4.153.17 \quad 0001 0001 10 \]
\[ 255.255.255.192 \quad 1100 0000 \text{ And}\]

\[ 192.4.153.0 \]

is in table \( \rightarrow \) \( R3 \)

3, 173, 94, 76, 64 / 28

\[ 64 \Rightarrow 0100|0000 \quad /28 \]

173, 94, 76, 64 \( \rightarrow \) not address

\[ 0100 (111) \Rightarrow 79 \]

173, 94, 76, 79 \( \rightarrow \) Broadcast

Can not use for host
- IP packet processing

- Routing
  - AS
  -  ASN
  - OSPF -> BGP
  - IGP -> BGP

- Routing issues
  - cost -> link weight
  - graph
  - shortest path
  - exhaustive search
  - Some Routing
IPv6

- 128-bit address
- No header check sum
- No Fragmentation
- Better support
  - high speed nets
  - mobile
  - plug & play

- IPv4 -> IPv6
  - Dual stack
  - tunneling