

CCNP Route Master Study Guide

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1.0 Network Principles

1.1 Identify Cisco Express Forwarding concepts

- **GENERAL CONCEPT**
 - Considered as switching within routers
 - Enables faster packet transfer from one interface to another
 - This is due embedding relevant information in hardware
- **PROCESS-BASED SWITCHING**
 - Eats up CPU resources to switch packets
 - Known as **"IP Input"** in the CPU table
- **FAST SWITCHING**
 - Store data in **"Fast Switching Cache"** for faster lookups
 - CPU would have more breathing room
 - Packet would first need to be analyzed by the CPU before entering the cache
 - Does not track the routing table so the cached entry aging out may take a bit
- **CISCO EXPRESS FORWARDING**
 - Pre-populated cache, downloads information from arp/etc as soon as available
 - Enabled by default on routers and multilayer switches
 - CEF cannot be disabled on switches due to specialized hardware
 - Some packets on switches **cannot** be CEF-switched:
 - ARP Requests (Glean)
 - Packets requiring response from router CPU such as MTU too large
 - Routing Protocol Traffic
 - CDP or LLDP
 - Packets needing encryption

1.1.a FIB

- **A.K.A. "Forwarding Information Base"**
 - Shadow copy of the routing table
 - AD, Tags, Metrics, and more are not included in the FIB table
- **VERIFICATION**
 - `show ip cef [detail]`
 - `show ip cef <ip address><mask> detail`

1.1.b Adjacency Table

- **GENERAL CONCEPT**
 - Pre-Populated with L2 tables such as:
 - ARP Table
 - Frame-Relay Map Table
 - If FIB does not have a specific IP address...
 - An ARP request is sent out so that it can be seen in the FIB as 'attached'

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Jason Ball



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