

# Routing

missing subnet keyword OSPF  
missing default metric EIGRP

Redistributing

duplicate RID ExStart  
MTU mismatch

duplicate RID Exchange  
MTU mismatch

Packet corrupt Loading  
memory corrupt  
MTU mismatch

States OSPF

## performance

CPU

- sh processes cpu [hist]
- ARP Process
  - sh arp incomplete entries
  - sh route 0.0.0.0 0.0.0.0 #int
- Net Background Process
  - buffer allocation
  - Interface counters
    - trottles
    - ignored
    - overrun
    - sh int #int
- IP Background Process interface state changes
- TCP Timer process
  - tcp connections
  - sh tcp statistics

switching mode

- process switching control plane only
- fast switching
  - route first, switch many
  - (int) ip route-cache
  - sh ip cache
- CEF
  - (int) ip cef
  - (int) ip route-cache cef
  - sh ip cef [not-cef-switched]
- sh int #int

memory

- memory leak
  - sh memory allocating-process totals
  - bug in IOS
- allocation failure
  - logentry MALLOCFAIL
  - Bug in IOS
  - Virus
- Buffer leak
  - wedged interface buffers full
  - sh buffers
  - bug