

CS 331 Computer Networks

Network Layer

- Network-layer Functions, Data Plane and Control Plane
 - Forwarding (data plane)
 - Routing (control plane)
 - Two approaches
 - per-router control (traditional)
 - logically centralized control (SDN)
- Software Defined Networking
- Components of SDN Controller
- OpenFlow Protocol
- Network Layer General Functions
 - Addressing
 - Error control
 - Flow control
 - QoS
- IPv4 Header
- Fragmentation