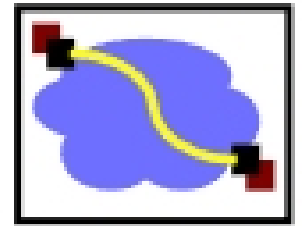




15-441 Computer Networking

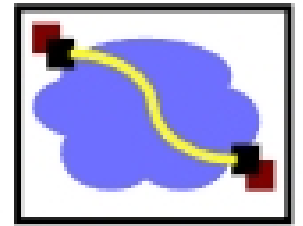
ATM and Label Switching

Outline



- ATM.
- IP over ATM.
- Label switching.

History



- Telephone companies supported voice telephony: 4 kHz analog, 64 kbps digital.
- They already provided lines for data networking.
 - ISDN: 64 + 64 + 16 kbps
 - T1 (1.544 Mbps)
 - T3 (44.736 Mbps)
- They wanted to become the primary service provider for data networking services.
 - file transfer: bursty, many Mbps peak
 - database access: bursty, low latency
 - Multimedia: synchronized
 - Video: 6 MHz analog, 1.2-200 Mbps digital
- How?