















## **Integrated Services**

- Guaranteed service
  - emulating dedicated virtual circuit
  - for hard real-time applications
  - bounded queuing delay, admission control
- Controlled-load service
  - equivalent to best-effort in <u>unloaded</u> condition

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- for *adaptive* real-time applications
- e.g., measurement-based admission control

3/8/06

Queuing and scheduling arrivals departure • First-Come-First-Serve **DUCUÉ** (waiting area) (server) - when queue is full high priority queue (waiting area) • drop tail • drop head • random drop link (server) • Priority arr iva h time • Round robin - weighted round robin departures G 3/8/06 CSc 461/561 10













