Reservations about Reservations

- evolving standard service: 20 kb/s within region, ?? later ➠ cannot be denied with
- but: charging model (200–300/T1, 10–15/modem) breaks ➠ volume-based charging
- reservations:
  - if flow $>$ (say) 1% of bottleneck bandwidth ➠ no scaling problem
  - no disruption tolerable (on-going $\succ$ new)
  - special-purpose QoS

Scheduling

10 hops, OC-12, 1500 bytes background, 80 bytes voice @ 16 kb/s

WFQ for individual flows: 360 ms

WFQ for all voice flows: 40 ms (50% of link)

Voice Priority: 193 ms

(really need percentile, not bound)

RSVP complications

- flow merging
- receiver orientation
- delay guarantees
- receiver diversity
- application modification (out-of-band)