













Non-work conserving disciplines can be idle even if packets are waiting.

- This allows "smoothing" of packet flows.
- Do not serve packet as soon as it arrives - wait until packet is *eligible* for transmission.
- Less jitter
- Makes downstream traffic more predictable and less bursty.
- Less buffer space:
 - router: output queues
 - □ end-system: de-jitter buffers
- Higher end-to-end delay
- Complex in practice.

Simple priority queuing

K queues:

 $\Box 1 \le k \le K$

- \Box queue *k* + 1 has greater priority than queue *k*
- □ higher priority queues serviced first.
- Very simple to implement
- Low processing overhead
- Relative priority:
 no deterministic performance bounds
- ✗ Fairness and protection:
 - □ starvation of low priority queues















































