Completely Fair Scheduling (CFS)

Linux's Process Scheduler

up to 2.4: simple, scaled poorly

- $O(n)$
- non-preemptive in kernel mode

- single run queue (cache? SMP?)

from 2.5 on: $O(1)$ scheduler

- ☺ 140 priority lists — scaled well
- ☺ one run queue per CPU — true SMP support
- ☺ preemptive
- ☺ ideal for large server workloads
- ☹ showed latency on desktop systems

from 2.6.23 on: Completely Fair Scheduler (CFS)

- ☺ improved interactive performance