Scheduling woes

Where to go with SCHED_DEADLINE

- Known issues
- Missing features
  - Affinities
  - Group scheduling
  - Work conserving
  - Unpriv
  - Self-suspending
  - Energy aware
- Testing
- RFD

Known issues

- Admission control vs cpusets
- PI implementation
  - Fix deadline inherit
  - ~~BWI~~
  - ~~M-BWI~~
  - Proxy Execution

Affinities

- Implication on admission control
- Single cpu → hard deadline
  - Mixed- / Multi- criticality scheduling
  - EDF/LLF mix
- Multi CPU → O(n!) admission control?

Cgroup support

- DEADLINE
  - Pure admission control
- Hierarchical FIFO/RR server
  - 3 variants
  - Ties in with affinities

Work conserving

- Soft-CBS
- Reclaim by demotion
- GRUB

unpriv

- Needs BWI ?
- Fix/Add limits to avoid DoS
- Stochastic / reclaim?

Energy aware

- Schedutil integration
- Capacity aware (asym topos)
- Full energy model

- Fork/clone behaviour

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- …. ?