RR ... Tois what is the overhead associated with different. t me slice lengths? Depends on time it takes to saitch contexts! For mislance song. ts => ts length ( 3) context south time context suiteh overlead = tg+C ts 1 movemes efficiency but decreases average response tone (bod for retractive processes, Mugames) great for outer activity, but spend more tome contest son theling 6 6 5 ms ts=100ms or ts= 10ms £8=10ms Es=100ms delay delany 15 105 210 30 315 Process 4 >> 60 = FIPTY 420 fules 2 /2 sec hefore itrus

hoslow, for interactive r

5 as more processes added

Overlead

45-100 overhead= \frac{5}{100+5} = 4.800 overhead

45-10 overhead=\frac{5}{100+5} = 33.300 overhead

45-10 overhead=\frac{5}{100+5} = 33.300 overhead

Priority

RR assumenes all processes the same

- Not the case, usually bejarchy

Priority

- non chunsine, non-interactive

med interactive

high critical system processes

System picks highest priority process boron, on preemptive, system suitables to history priority process when Hely appear.

Priorfres Internal - assigned by system external - assigned by admin

can Static - Sticks for lifetime wexist. Edynamic - System modifies (scheduler)

Priority is just a number higher better? wordows |

gelative importance of each process precisely defined

Disadvantage - high priority processes can beg CPU, store low priority ones.

Sharvation

- dynamic privilly - at end of each to, system can dimmish process priority, eventually lower priority processes rus. (ageing) keep track of low priority is mercase

their priority until they von. Then reget a regtart

## Multilevel Queus (Priority)



Group processes into classes- (real time, lund, interactive, background) Diff schedulus for each class, Used Win, Linux, OSX privrity

- usually round robin, but if time critical can use FCFS (no presumption) gets all time it needs no interrupt

- Scheduler can also choose diff time stice per Q., interactive has small time stice to cusure sneeppy response, non-rutesactive has longer ts. Beller Miz atton.

- Bon't get to run as often but when they do they run longer How to choose provinty?

what if CPU bound eight brigh priority? not
good for process or throughput (; I slows interactive)

## Multilevel Feedback averes

- scheduler adjust priority of process mores among
- goal place process in queve appropriate to

  CPU burst behavior.

  Ilo intensive, end up on High priority ques

  CPU intensive, end up on lower

## 2 Basic rules

- 1 New process placed on highest priority queve
- De a process does not finish ts. (it blocks)
  if util stay on current queve, otherwise
  moves to next lower.
- -50 long CPU burst, use time slice, demoted to queve that lets of run longer ts's
- highly ruter orchive, shows high priority

- CPO intensive, quickly trickly backdown,
while Game above, makes thoward to intensive
queve a story Here!

a faring t

in he give

X.