Scheduling

Multi-Lavel Feedback Queue optimize turn around - Responive

> has multiple queve's that represent different priorities then works off Rand Robin

Rule 1: Priority (A) > Priority (B)? A Rus
Rule 2: (f Priority (A) = Priority (B), Round Robin
MLFQ tries to learn about pricesses
as they Run, also bases priority of
that

Highest Q8 -XA -XB Privity Q7 Q5 Q4 -> C Q3 Q2 Q1 -> D

Changing Priority

Rule 3: When a Job enters the system it is placed at the highest priority.
Rule the It Job uses entire time slice while running it's priority is reduced.
Rule 461: It a Job gives up CPU before time mas out it keeps Priority.

Problems with MLFQ

Standion: If there are too many high Priority tasks, low priority Jobs get started

Garing the Scheduler: a smart programmer con make their program take 99% and monopolize the system

Programs change Behavist: with corrent system it couldn't more back up the guevre

* Rivity Boost *

Rule 5: After some time "5" all jobs are moved to the topmost gueve

* Better Accounting*

Revised Rule 4: Once a Job ses up its time all others at a given level (Regardless of how many times it has given up the CPU) its priorty is reduced

-Defalts **

260 greenes with slowly increasing time

slices.

Priority boost every = I second

Proportional - Shure Scheduling

- · Lottery: Uses Randomness
- · Stride: Deterministic
- · CFS (Completely Fair Scheduler): a eighted Royal
 Robin with dynamic time slices
 - Uses Red/Black Trees - Scales well