

# Other Replacement Algorithms

## **Random eviction**

- Dirt simple to implement
- Not overly horrible (avoids Belady's anomaly)

## **LFU (least frequently used) eviction**

- Instead of just A bit, count # times each page accessed
- Least frequently accessed must not be very useful (or maybe was just brought in and is about to be used)
- Decay usage counts over time (for pages that fall out of usage)

## **MFU (most frequently used) algorithm**

- Because page with the smallest count was probably just brought in and has yet to be used

➔ Neither LFU nor MFU used very commonly

# Linux Paging

- ➡ Global replacement (like most Unix)
  - Modified second-chance clock algorithm
  - Pages age with each pass of the clock hand
  - Pages that are not used for a long time will eventually have a value of zero