

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