

How to put processes in memory

Partitioning

Dividing memory in parts of fixed or variable size

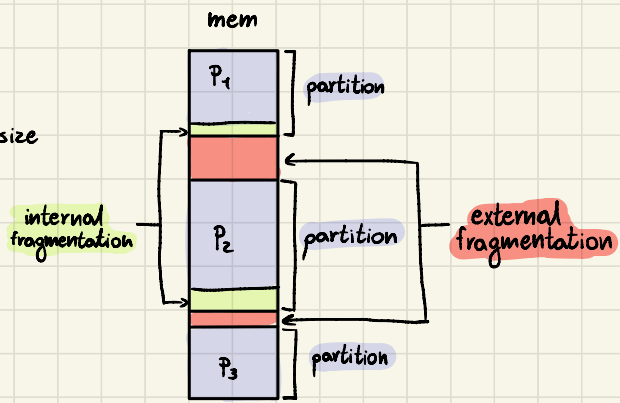
How to decide which void to fill?

Best fit → creates many small voids

First fit → many small voids of 16 and 32 units upfront

Next fit

Worst fit → large processes fail to find suitable voids



Paging

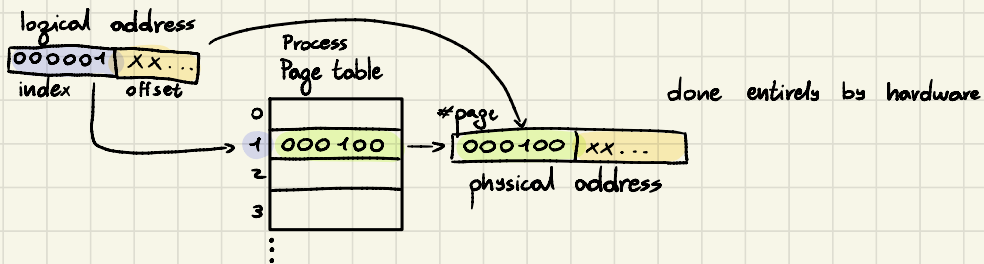
Dividing entire memory in frames of fixed size

Process image also divided in pages, same size as frames

Frames don't have to be contiguous in mem.

no external frag., limited internal frag. (avg. circa page/2 per process)

A per-process page table must be maintained ⇒ contains number of all pages of a process



Segmentation

A process may have one or more segment, may have different size, not necessarily in contiguous block in mem.

external frag. may occur (less pronounced than dynamic partitions)

