# Size-Class Automaton for $\pi > 1$



h is the total # of allocated page-blocks in the size-class n is the # of not-full pages  $u_i$  is the # of used page-blocks in a not-full page i

# Size-Class Automaton for $\pi > 1$



h is the total # of allocated page-blocks in the size-class n is the # of not-full pages  $u_i$  is the # of used page-blocks in a not-full page i



h is the total # of allocated page-blocks in the size-class n is the # of not-full pages  $u_i$  is the # of used page-blocks in a not-full page i

# Size-Class Automaton for $\pi > 1$



### Incremental Compaction

- A page-block that is <u>incrementally</u> moved actually occupies two page-blocks:
  - source page-block
  - target page-block

### Incremental Compaction

- A page-block that is <u>incrementally</u> moved actually occupies two page-blocks:
  - source page-block
  - target page-block
- A page containing source page-blocks is called source page

may also contain used and free page-blocks

### The Lifetime of a Page



### The Lifetime of a Page



### The Lifetime of a Page



#### transient size-class fragmentation



# Incremental Size-Class Automaton for TT > I



# Incremental Size-Class Automaton for π > I



# Incremental Size-Class Automaton for $\pi > 1$





# Incremental Size-Class Automaton for TT > I

