

PageReplacemntPolicy

September 9, 2025

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1 Why Optimal Page Replacemnt is not possible

sometimes it depends on user inputs

page replacement algorithms because the pages used once can be used once again

2 FIFO

Not intelligent (very simple)

Belady anamoly

increasing capacity actually increases page misses

3 random replacement

perform better then fifo

not intelligent

4 Based on history

5 MFU

If something used a lot it means its work is done (the code)

replacing the most commonly used page

1. cons: does not consider spatial or temporal locality

6 LFU

better then MFU

1. based on spatial or temporal locality ??? DOUBTS

in these 2 we are not considering time

7 considering time

LRU

1. based on locality

7, 0, ①, ②, 0, 0, 2, 4, 1, 0

7	7	7	2
	0	0	0
		1	1

2	2	0
0	1	1
4	4	4

Implementing it Queue
DLL

implementation heavy, for cache is fine because cache is small, for pages it becomes heavy ram can have a lot of pages

8 LRU approximation