

# Navidezno naslavljanje

1. Nočemo, da bi programi bili pozicijno odvisni
  2. Nočemo se zavedati "velikosti" RAM-a
- želim si, da bi "videli" 2<sup>m</sup> pom. besed
- dobivamo I/O register (≈ 64 bitov)
- to naj videli vsake program, ki se izvede

npr. nalovimo nek program v RAM in če program je preprosto, da so upoštevni ulovi ne nalovim 0 →

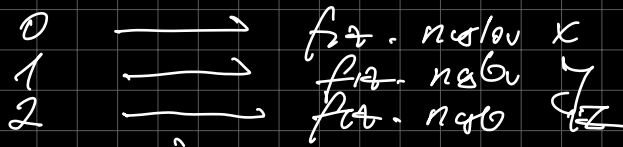
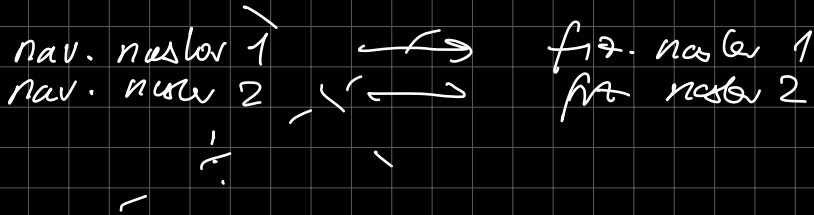
večdes je v RAM-u naslov 0 se zavedam, zato določim to program npr. na naslov 1024

NASLOVI CPE	KLJUČNA IZSTAVJA	DEJANSKI NASLOVI V RAMU
0	→	1024
4	→	1028
8	→	1032
12	→	1036
⋮		

*preslavljanje!*

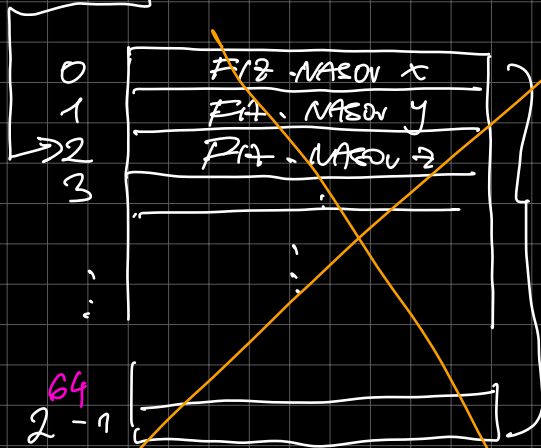
IDEJA :

Dajmo predvideti vsake naslov poteka!



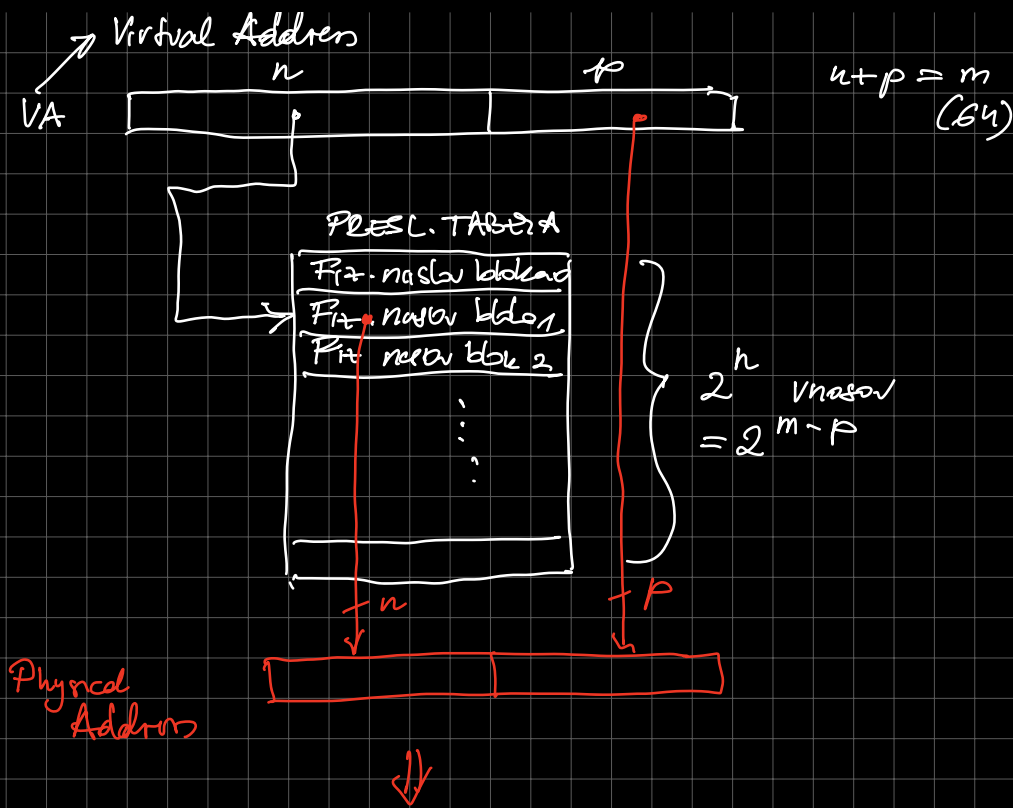
↓ IMPLEMENTACIJA

NAVIDENI NASLOVI APE

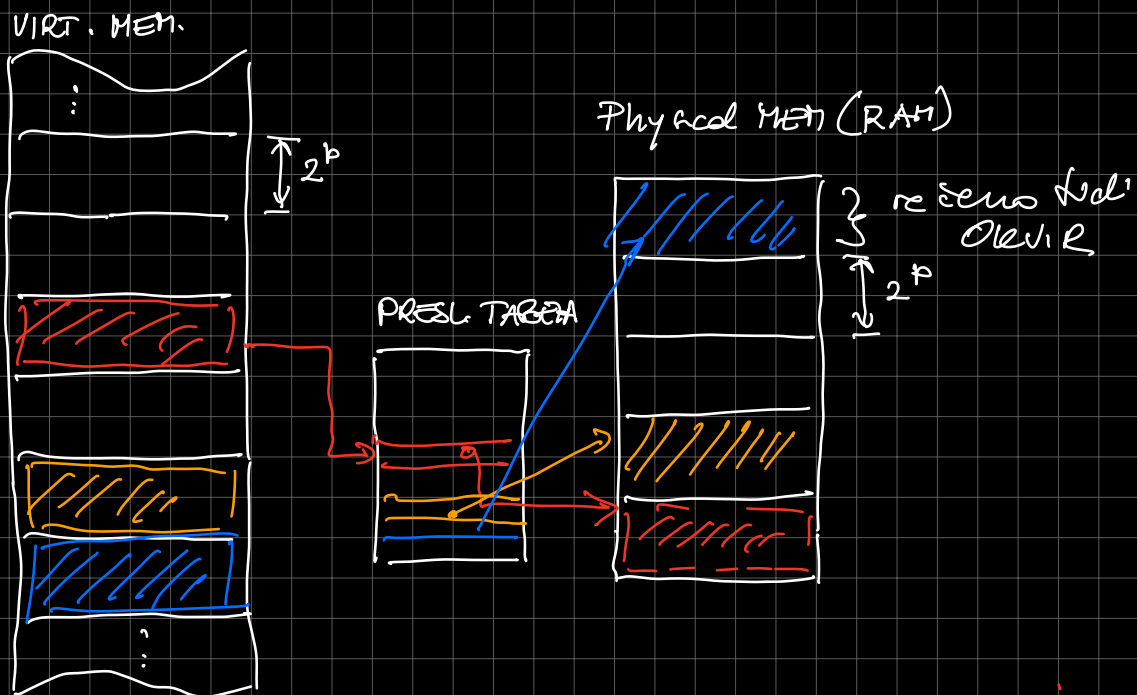


$2^{64}$  vnosov v tabeli ?!?!

↓  
IDEJA: PRESLIKAMO RADE NASLOVE BLOKOV NASLOVNOV

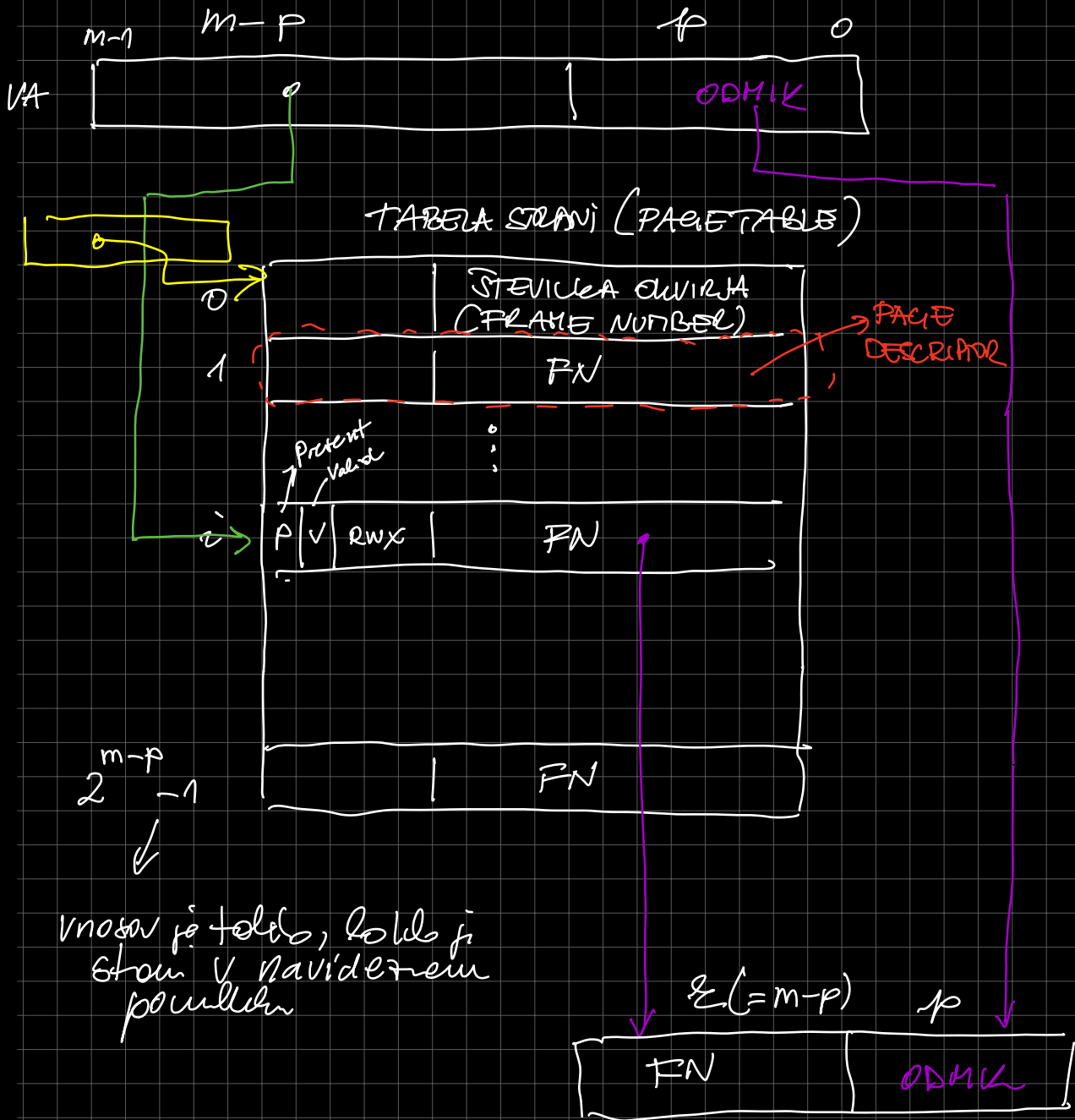


OSTRANJE VANJE (PAGING)



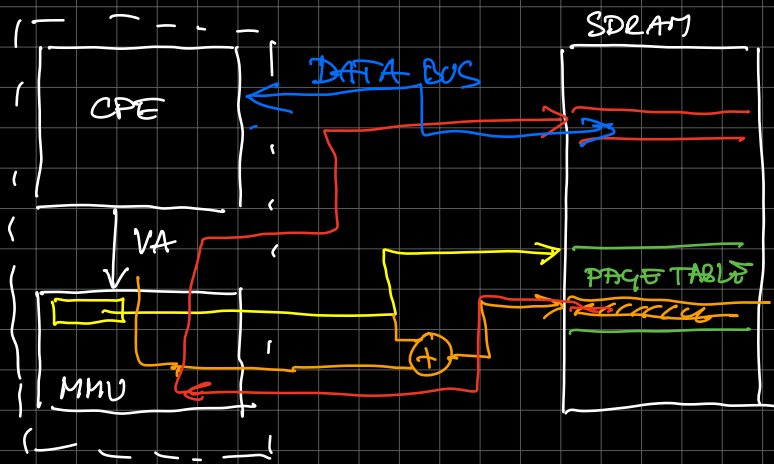
STRANI

Navidevanju in fiz. pom. razdelimo na bloke ende, velosti  
in potem prečlenimo naslove blokov



Kje je zdaj to to?

→ MMU (Memory Management Unit)

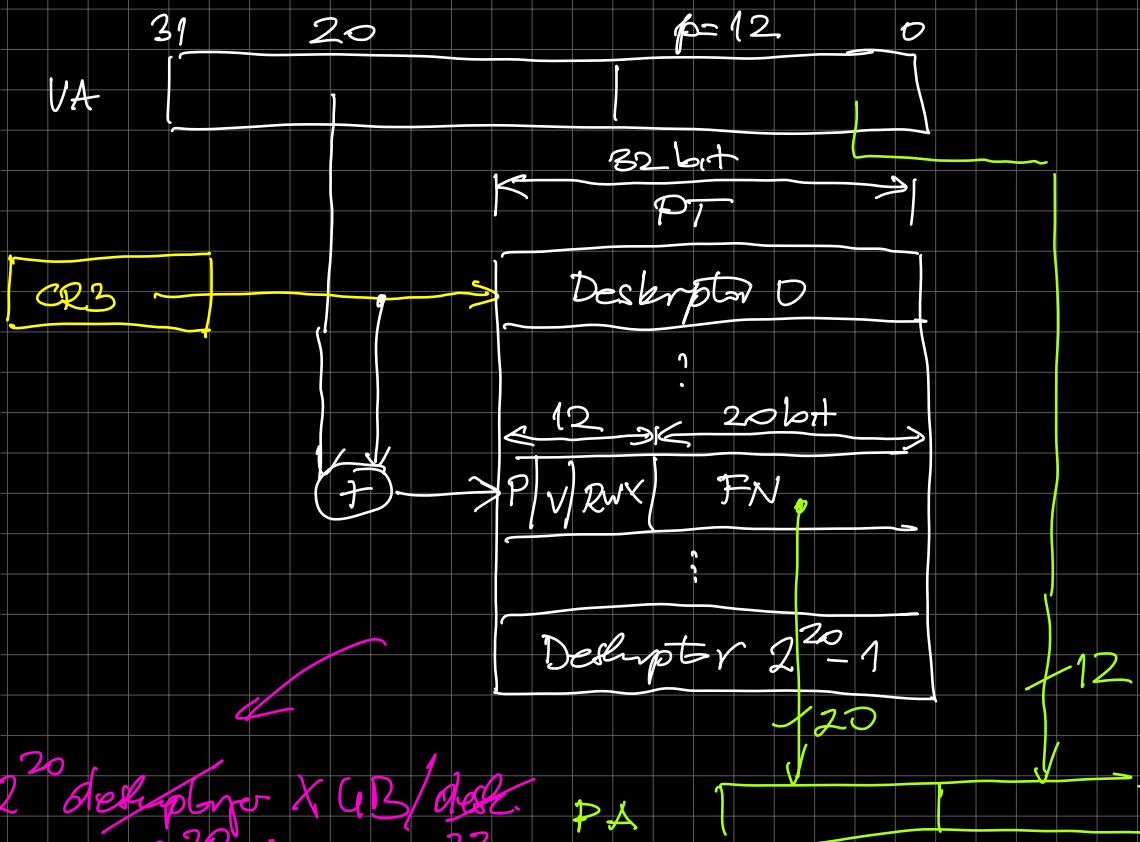


Speed: Intel Pentium 1 (~1995)

$$m = 32, \quad 2^{32} = 4GB$$

SDRAM ~ 4MB

$p = 12$ , stream so voll 4KB

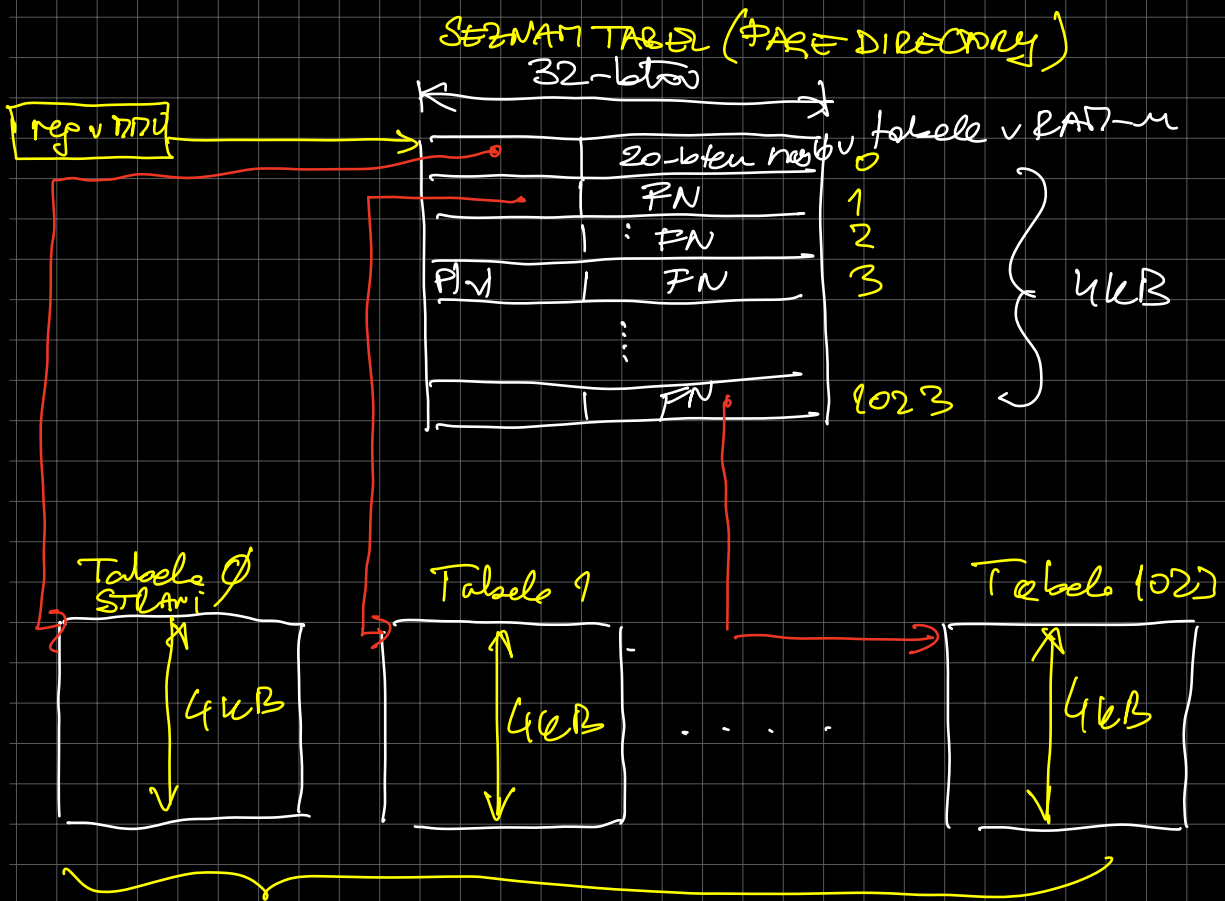


$$2^{20} \text{ descriptors} \times 4B/\text{desc.} = 2^{20} \cdot 4B = 2^{22} B$$

PA

M = 4MB

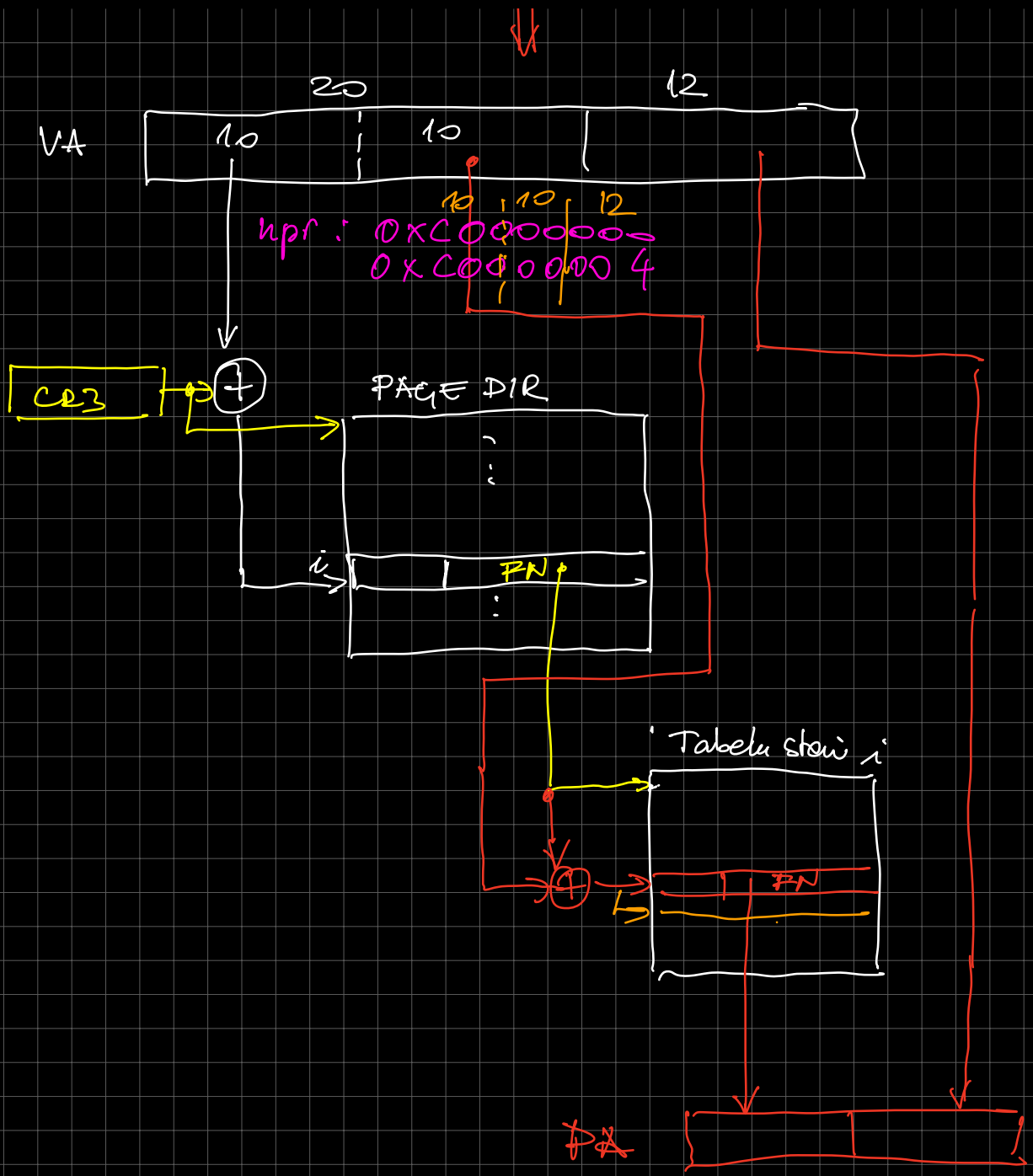
Rečito: (dve ro tabele)



Te tabele nazivov ends veka kot ste!!

DVONIVOJEK OSTRANJEVANJE





SHIFT ! NAMEŠN ENERA 0000000000  
 POSTORA DO SDLATA 101110  
 3 0000000000 DOSTRE

VAUS POSITRINO PRIBULO VANJE ?