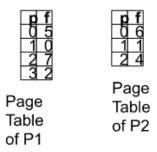
Operating Systems

Main Memory: Paging examples

Suppose, in a system, there are two processes - P1 (16 bytes) and P2 (12 bytes) with a page size of 4 bytes. The main memory size of the system is 32 bytes. Page tables of both processes are given below.



Find the corresponding physical address of the following logical addresses -

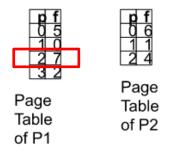
i. address 1011 of P1

ii. address 0100 of P1

iii. address 0111 of P2

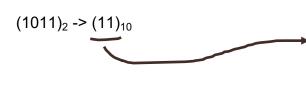
iv. address 1010 of P2

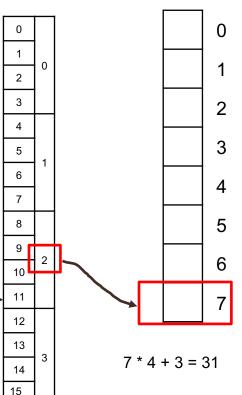
Suppose, in a system, there are two processes - P1 (16 bytes) and P2 (12 bytes) with a page size of 4 bytes. The main memory size of the system is 32 bytes. Page tables of both processes are given below.



Find the corresponding physical address of the following logical addresses -

i. address 1011 of P1 ii. address 0100 of P1 iii. address 0111 of P2 iv. address 1010 of P2





iv. address 1010 of P2

Suppose, in a system, there are two processes - P1 (16 bytes) and P2 (12 bytes) with a page size of 4 bytes. The main memory size of the system is 32 bytes. Page tables of both processes are given below. 2 3 3 5 Page Page 4 Table Table of P2 of P1 5 Find the corresponding physical address of the following logical addresses -6 10 $(0111)_2 \rightarrow (7)_{10}$ i. address 1011 of P1 11 ii. address 0100 of P1 iii. address 0111 of P2

1*4+3=7

Assume that page size = 3KB and Physical Memory = 36KB. If CPT generates logical addresses 5, 9, 2 and 16 respectively then **developed** the users' view of memory which is mapped into physical memory?

P0	CSE101	
P1	CSE220	
P2	CSE110	
P3	CSE330	
P4	CSE420	
P5	CSE321	

Logical Address Space



PMT

Main Memory



Assume that page size = 3KB and Physical Memory = 36KB. If CPU generates logical addresses 5, 9, 2 and 16 respectively then developed the users' view of memory which is mapped into physical memory?

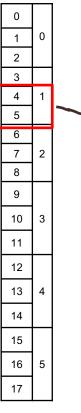
P0	CSE101
P1	CSE220
P2	CSE110
P3	CSE330
P4	CSE420
P5	CSE321

Logical Address Space

0	6
1	2
2	9
3	4
4	11
5	7

PMT

Main Memory



0		
1	<i></i>	CSE220
'		
2		CSE330
3		
		CSE101
		CSE321
4		
5		CSE110
		CSE420

0

2

3

4

5

6

8

9

10

11