

Announcements

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Mentor

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## Unit 7 - Week 6

NPTEL » Operating System

ourse outline	Assignment 6	
w does an NPTEL online urse work?	The due date for submitting this assignment has passed.  As per our records you have not submitted this assignment.  Due on 2020-03-11, 23:59 IST.	
ek 1		
ek 2	<ol> <li>Consider a paging hardware with a TLB. Assume that the entire page table and all the pages are in the physical memory. It takes 10 milliseconds to search the TLB and 80 milliseconds to access the physical memory. If the TLB hit ratio is 0.6, the effective memory access time (in milliseconds) is</li> </ol>	
ek 3		
k 4	No, the answer is incorrect. Score: 0 Accepted Answers:	
5	(Type: Numeric) 122	
6	<ol> <li>If an instruction takes i microseconds and a page fault takes an additional j microseconds, the effective instruction time if on the average a page fault 1 po</li> </ol>	
nslation Lookaside Buffer, ge Pages, Boot Sector	occurs every k instruction is-	
ing the kernel, Initializing	i+j/k i+jxk	
ting up page tables for	○ (i+j)/k ○ (i+j)xk	
: Assignment 6	No, the answer is incorrect. Score: 0	
6 Feedback Form	Accepted Answers: i+j/k	
	3) Consider a three level paging scheme with a TLB. Assume no page fault occurs. It takes 20 ns to search the TLB and 100 ns to access the physical 3 points.	its
	memory. If TLB hit ratio is 80%, the effective memory access time is msec.	
	○ 180 ns	
	○ 120 ns ○ 40ns	
	○ 80ns	
	No, the answer is incorrect. Score: 0	
	Accepted Answers: 180 ns	
Solution	4) Which of the following is true:	int
/ideos	4) Which of the following is true:  7 TLBs have hit ratio of 99+ percent	m
	TLBs have filt ratio of 99+ percent  TLBs are generally located on the same chip as processor	
ext Transcripts	TLBs are fully-associative	
	All of the above	
	No, the answer is incorrect. Score: 0	
	Accepted Answers: All of the above	
	5) What is the size of a Sector on the disk:	int
	○ 4MB	
	○ 4KB	
	○ 512B	
	○ 4B	
	No, the answer is incorrect.	
	Score: 0	
	Accepted Answers: 512B	

6) Which of the following can be seen as effect of using Large pages:

The kernel is required to manage the cases of segmentation

Single layer of paging table required

All of the above

Accepted Answers: All of the above

No, the answer is incorrect. Score: 0

There will be decrease in number of elements in the TLB required to maintain the same hit ratio

The kernel has to ensure that the large process are assigned large pages and they are using it efficiently.