答题卡	共6题
1 2 3 4	5
□答ヌ	寸□答错

- 1. Consider a paging system with the page table stored in memory.
 - a. If a memory reference takes 50 nanoseconds, how long does a paged memory reference take?

b. If we add TLBs, and if 75 percent of allpage-table references are found in the TLBs, what is the effective memory reference time? (Assume that finding a page-table entry in the TLBs takes 2 nanoseconds, if the entryis present.)

Answer:

- a. <u>1</u> ns
- b. <u>2</u> ns

填空题 (14	分)	0分	(请按题目中的空缺顺序依次填写答案)
~~ K	/ / /	· //	

1	50	回答错误
2	14	回答错误

正确答案:

- 1 100
- 2 64.5
- Given six memory partitions of 100 MB, 170 MB, 40 MB, 205 MB, 300 MB, and 185 MB (in order), how would the first-fit, best-fit, and worst-fit algorithms place processes of size 200 MB, 15 MB, 185 MB, 75 MB, 175 MB, and 80 MB (in order)?

请在下面空中依次填写答案。如果某进程能放入到空闲分区中,填写该分区的数字,如: 100;如果某进程无法放入到空闲分区中,则填写:must wait

First-fit:

- a. 200M process put in 1 M partition
- b. 15M process put in 2 M partition
- c. 185M process put in 3 M partition
- d. 75M process put in 4 M partition
- e. 175M process must 5 M partition
- f. 80M process put in 6 M partition

Best-fit

- a. 200M process put in _____ M partition
- b. 15M process put in 8 M partition
- c. 185M process put in 9 M partition
- d. 75M process put in 10 M partition
- e. 175M process put in 11 M partition
- f. 80M process put in __12 M partition

Worst-fit:

- a. 200M process put in (13) M partition
- b. 15M process put in _____ M partition
- c. 185M process put in ______ M partition
- d. 75M process put in 16 M partition
- e. 175M process 17 M partition
- f. 80M process put in (8) M partition



1	205	
2	100	
3	300	
4	100	
(5)	185	
6	170	
7	205	
8	40	
9	185	
10	100	
11)	300	
12	170	回答错误
13	300	
14)	205	
15)	185	回答错误
16	170	回答错误
17)	must wait	
18	100	回答错误
	- 确答案:	
Œ	3) 185 3) 170 7) 205	

- 8 40
- 9 185
- 10 100 11 300
- 12 300
- 13 300
- 14 205
- 15 205

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1 2 3 4	5
	答对 □答错

16 185 17 must wait 18 170

下面的 185 2095	P中依次均 page nu page nu page nu	真写十进制 mbers: <u>(</u> ımbers: <u> </u>	数值答3 1 <u>)</u> , o 3 <u>)</u> , o 5 ,	offsets:	cimal numb ② ④ ⑥	ers):
)85 2095 15201	page nu page nu page nu	mbers: (1) , o 3 , o 5 ,	offsets:(offsets:	<u>4</u> <u>6</u>	
2095 15201	page nu	umbers:	3 , o 5 ,	offsets:	<u>4</u> <u>6</u>	
5201	page no	umbers:	<u>(5)</u> ,	offsets:	6	
3分)	18分	(请按题目中	的空缺顺	序依次填写	答案)	
edded size	d devices . How ma entional,	s, it has or	nly a 16- s are the el page	bit physicere in each	caladdress. ch ofthe follonswer:	(填写10进制数
invo	rteu pag	e labie. 7	MISWEI.		(填写10进制数	X)
n inve	16分	(请按题目中	的空缺顺	序依次填写	答案)	
n inve 3分)						
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- 5. Consider a logical address space of 256pages with a 4-KB page size, mapped onto a physical memory of 64 frames.
 - a. How many bits are required in the logical address?
 - b. How many bits are required in the physical address?

Answer

- a. Logical address: 1 bits
- b. Physical address: 2 bits

填空题 (14分) 7分 (请按题目中的空缺顺序依次填写答案)

1	20	
2	14	回答错误

正确答案:

- 1 20
- 2 18
- 6. Considering thesegment table, what are the physical addresses for the following logical addresses?

Segment Base Length

- 0 219 600
- 1 2300 14
- 2 90 100
- 3 1327 580
- 4 1952 96

What are the physical addresses for the following logical addresses? (Physical addresses = Segment Base Address + Offset)

请在下面空中依次填写十进制数值答案,如果是无效地址,请填写: invalid。

a. 0,430 Answer: 1
b. 1,10 Answer: 2
c. 2,500 Answer: 3
d. 3,400 Answer: 4
e. 4,112 Answer: 5

填空题 (20分) 20分 (请按题目中的空缺顺序依次填写答案)

1	649
2	2310
3	invalid
4	1727
(5)	invalid

正确答案:

- 1)649
- 2 2310
- (3) invalid
- 4 1727
- (5) invalid

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