

# Lab13

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## Ex. 1

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No page hits. Because the number of physical memory page is equal to the size of TLB, thus every missing virtual page number in TLB is also missing in PT.

## Ex. 2

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00

20

40

60

80

A0

C0

E0

00

20

## Ex.3

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Memory Size

Number of physical memory page increased to 8.

## Step 1-4

TLB

VPN

PPN

0	0
1	1
2	2
3	3

## PT

VPN	PPN	Hit
0	0	
1	1	
2	2	
3	3	
4	-	
5	-	
6	-	
7	-	

## Step 5-8

## TLB

VPN	PPN
4	4
5	5
6	6

7	7
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**PT**

VPN	PPN	Hit
0	0	
1	1	
2	2	
3	3	
4	4	
5	5	
6	6	
7	7	

**Step 9-10**

**TLB**

VPN	PPN	Hit
0	0	
1	1	
6	6	
7	7	

**PT**

VPN	PPN	Hit
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0	0	Hit
1	1	Hit
2	2	
3	3	
4	4	
5	5	
6	6	
7	7	