

Data:

TLB

Set	Tag	PPN	Valid	Tag	PPN	Valid	Tag	PPN	Valid	Tag	PPN	Valid
0	03	-	0	09	0D	1	00	-	0	07	02	1
1	03	2D	1	02	-	0	04	-	0	0A	-	0
2	02	-	0	08	-	0	06	-	0	03	-	0
3	07	-	0	03	0D	1	0A	34	1	02	-	0

Page Table

VPN	PPN	Valid	VPN	PPN	Valid
00	28	1	08	13	1
01	-	0	09	17	1
02	33	1	0A	09	1
03	02	1	0B	-	0
04	-	0	0C	-	0
05	16	1	0D	2D	1
06	-	0	0E	11	1
07	-	0	0F	0D	1

Cache

Index	Tag	Valid	B0	B1	B2	B3	Index	Tag	Valid	B0	B1	B2	B3
0	19	1	99	11	23	11	8	24	1	3A	00	51	89
1	15	0	-	-	-	-	9	2D	0	-	-	-	-
2	1B	1	00	02	04	08	A	2D	1	93	15	DA	3B
3	36	0	-	-	-	-	B	0B	0	-	-	-	-
4	32	1	43	6D	8F	09	C	12	0	-	-	-	-
5	0D	1	36	72	F0	1D	D	16	1	04	96	34	15
6	31	0	-	-	-	-	E	13	1	83	77	1B	D3
7	16	1	11	C2	DF	03	F	14	0	-	-	-	-

What is the result when the following virtual addresses are read?

0x0334: _____

0x0255: _____

0x05AC: _____

a. Virtual Memory:

Virtual Address:

_____ (hex)

13	12	11	10	9	8	7	6	5	4	3	2	1	0

VPN: _____ (hex)

VPO: _____ (hex)

b. Translation Lookaside Buffer:

TT: _____ (hex)

TI: _____ (dec)

TLB Hit/Miss: _____

c. Page Table:

Page Table Hit/Miss: _____

d. Physical Memory:

PPN: _____ (hex)

Physical Address:

11	10	9	8	7	6	5	4	3	2	1	0

_____ (hex)

e. Cache:

CT: _____ (hex)

CI: _____ (dec)

CO: _____ (dec)

Cache Hit/Miss: _____

Byte Result:

0X

 (hex)