Cache Conflicts

Cache Conflict

When two recently accessed addresses map to the same block, a conflict occurs.

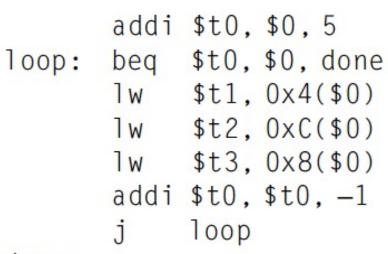
Most recently used address evicts the previous one from the block.

Two addresses that map to the same set always cause a conflict in direct mapping.

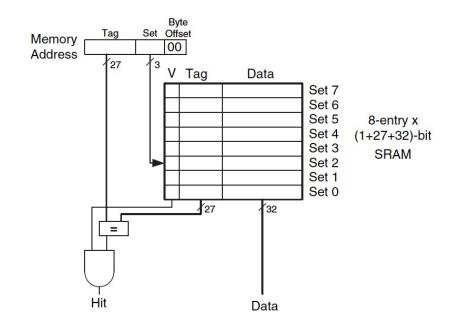
Use the 8-entry cache to see how the cache works given the following loop.

What does the cache look like at the end of the iterations?

What is the miss rate?



done:



```
addi $t0, $0, 5
loop: beq $t0, $0, done
lw $t1, 0x4($0)
lw $t2, 0xC($0)
lw $t3, 0x8($0)
addi $t0, $t0, -1
j loop
done:
```

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What does the cache look like at the end of the iterations?

What is the miss rate?

```
addi $t0, $0, 5
loop: beq $t0, $0, done
lw $t1, 0x4($0)
lw $t2, 0x24($0)
addi $t0, $t0, -1
j loop
```

done:

