

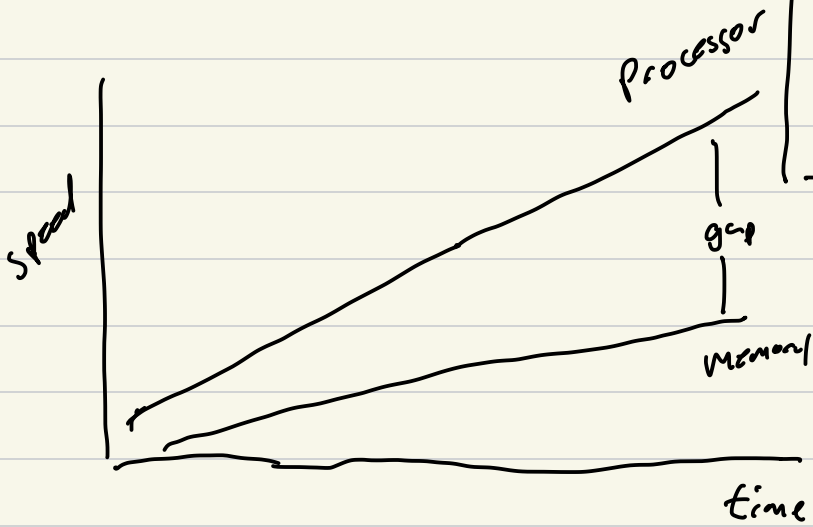
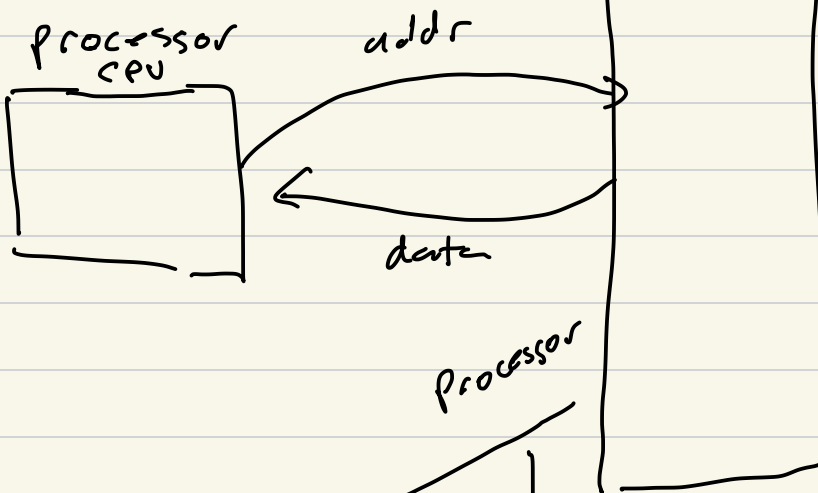
# CS315-01 Lab Lab03 Sol Analysis Cache Memory

## Lab03 Solution

### Dynamic Analysis

#### Cache Memory

RAM DRAM



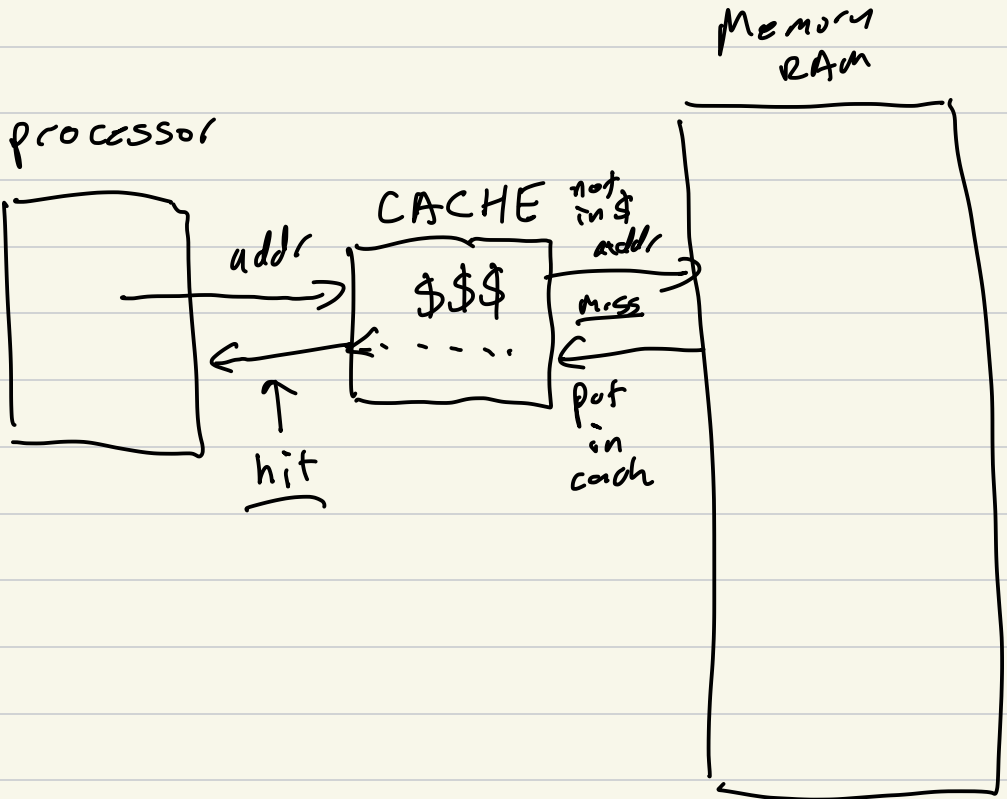
# Two types

SRAM

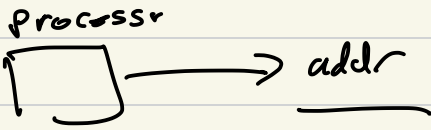
Static  
random  
access  
memory

DRAM

dynamic  
random  
access  
memory



# Cache Questions



- 1) How to find addr in cache?
- 2) How to determine if the data we want is in the cache?
- 3) Which data do we remove from the cache if full?

## Principles of Locality

- 1) Spatial Locality
- 2) Temporal Locality

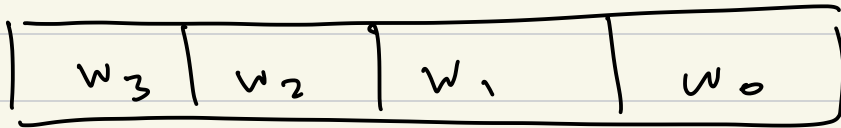
# Types of Caches

Direct Mapped Cache

Set Associative

Fully Associative

Slot      Data  
            word



Block size

