

CS 315-02 Lab 03 Sol Analysis Cache

Shifts and type casting

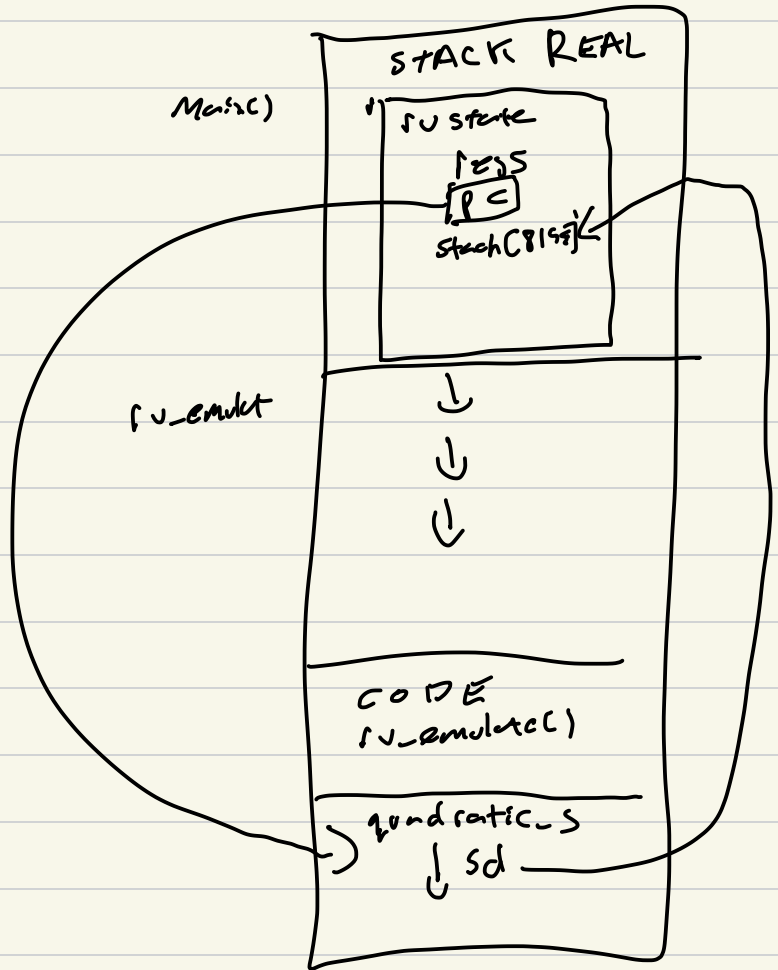
int64_t x;
int shamt;

Dint64_t y

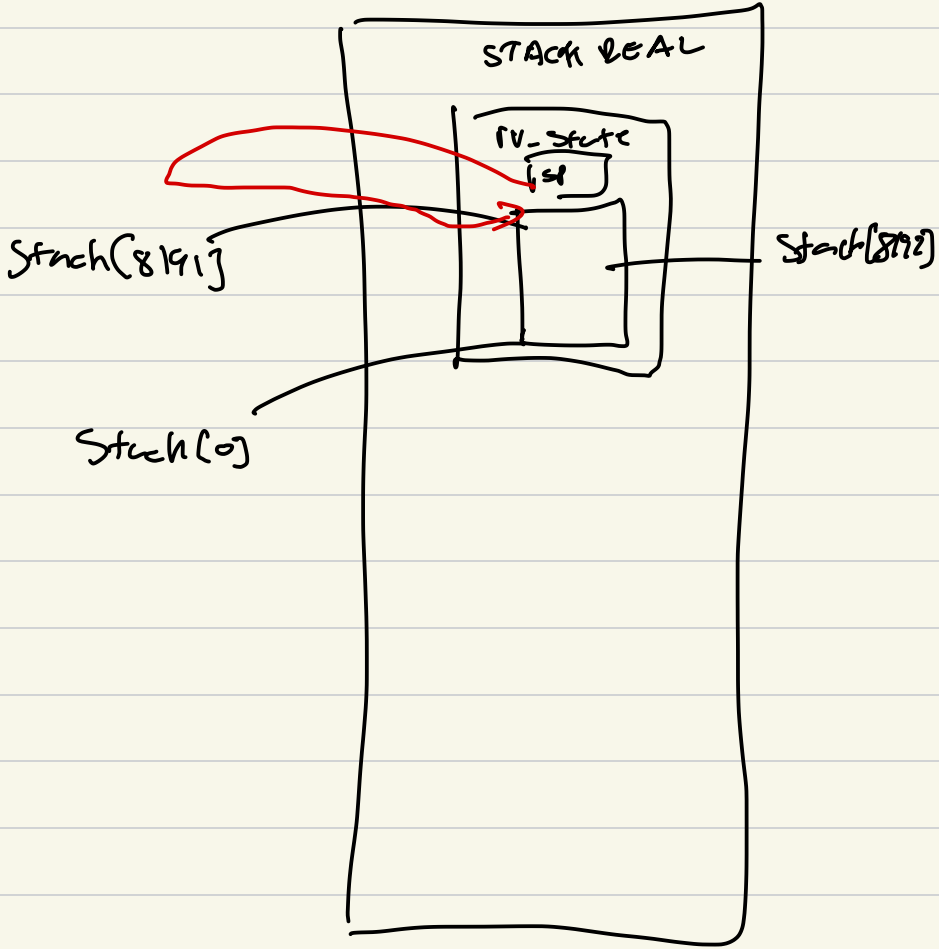
x >> shamt
↓
sra

y >> shamt
unsignd
srl

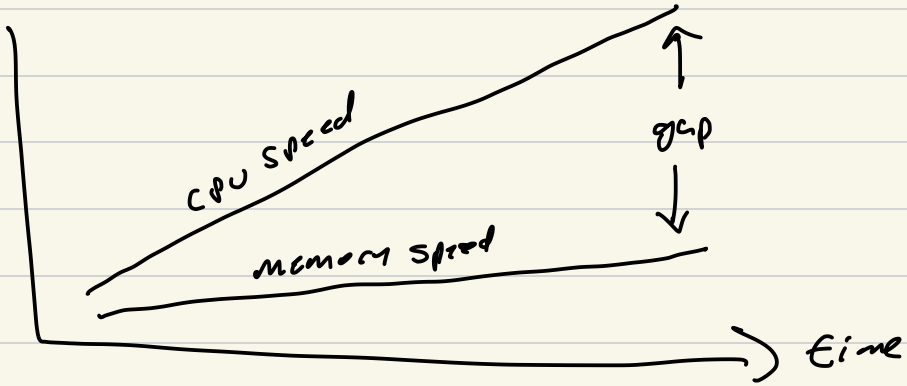
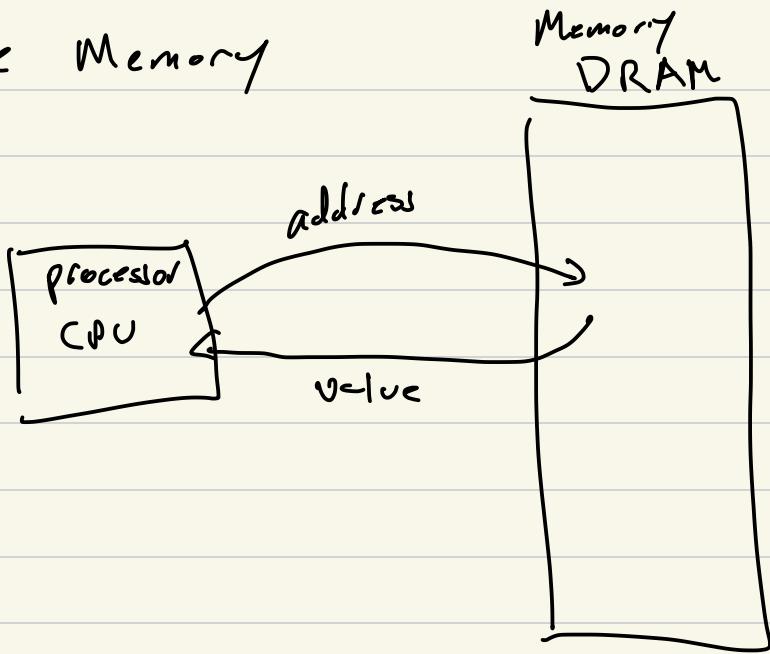
Emulated Stack

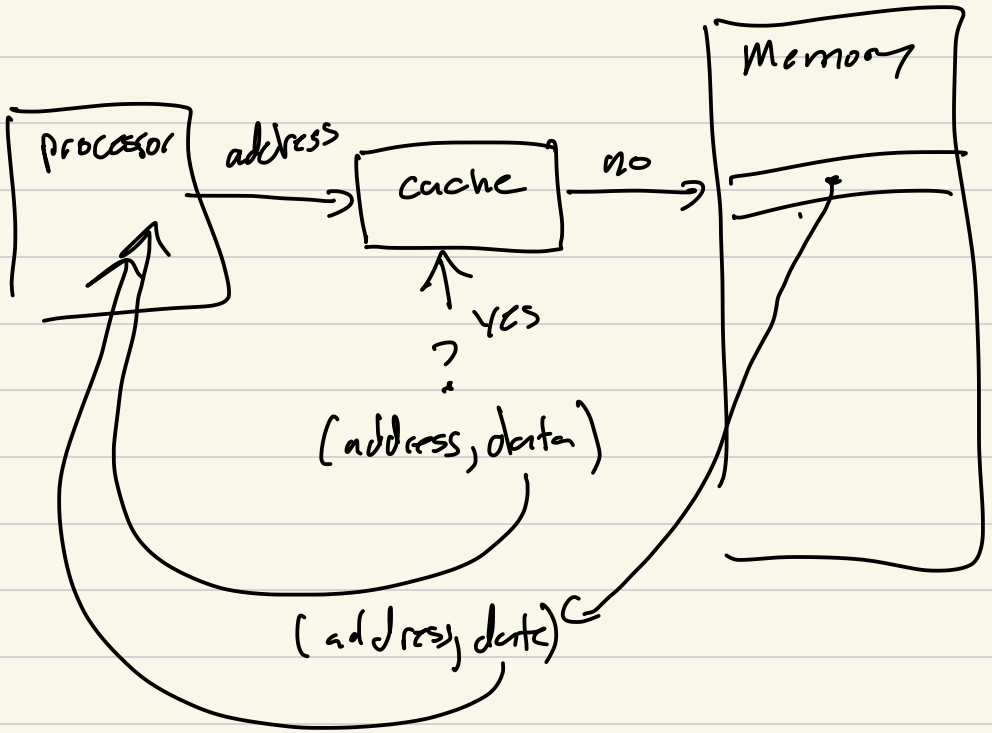


Memory



Cache Memory





Spatial locality

temporal locality

Questions

Where to look for an address?

How determine a match?

Which item to remove on conflict

✓ Direct Mapped

[Fully Associative]

✓ Set Associative

