## 0x19 - Wrap Up

ENGR 3410: Computer Architecture

Jon Tse

Fall 2020

## Housekeeping

Write Up Draft due Dec 14, Midnight Eastern

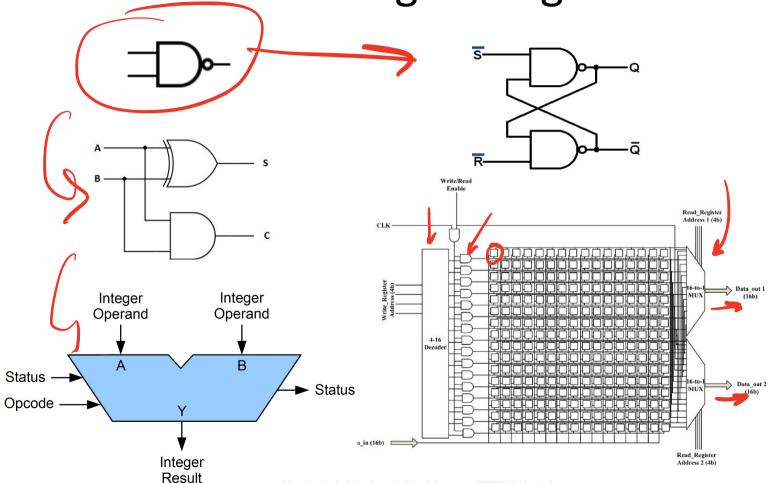
- Presentation Dec 15/17 during "class time"
  - Sign up in the Google Spreadsheet
  - Conflicts/special casing, please email me.

Final Write Up (if necessary) due Dec 18.

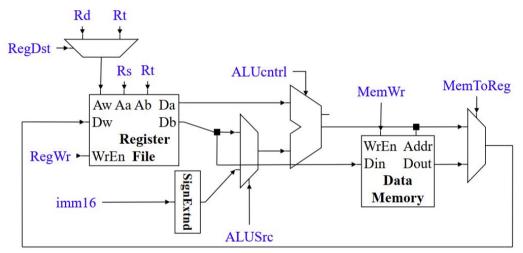
#### Retrospective

- 3 Classes in 1
  - Digital Logic
  - Computer Organization
  - Computer Architecture
- Bonus
  - Pareto Optimality
  - Heuristic Optimization Methods

# Class 1 - Digital Logic

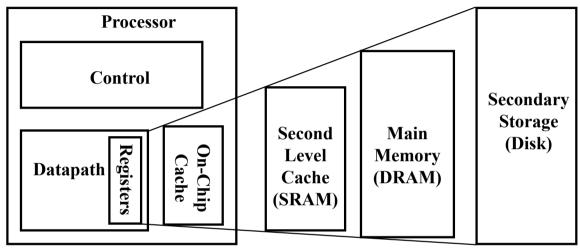


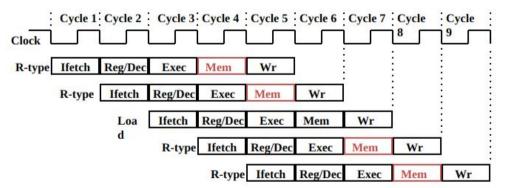
## Class 2 - Computer Organization

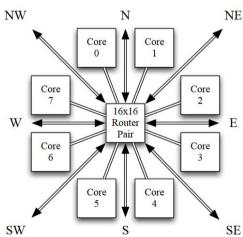


```
addi $a0, $zero,
addi $t0, $zero, 1
addi $t1, $zero, 1
addi $t2, $zero. 2
loop:
    add $t3,$t0,$t1
    beg $t2,$a0,breakloop #if (n==N) goto breakloop;
    addi $t2,$t2,1
    add $t1.$zero.$t0
    add $t0.$zero.$t3
    j loop
breakloop:
    add $a0,$zero,$t3
                          #return the answer
    addi $v0,$zero,1
    SYSCALL
    addi $v0,$zero,10
    SYSCALL
```

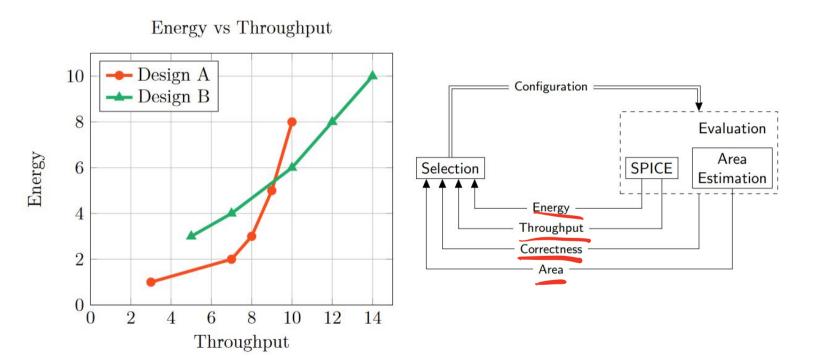
#### Class 3 - Computer Architecture



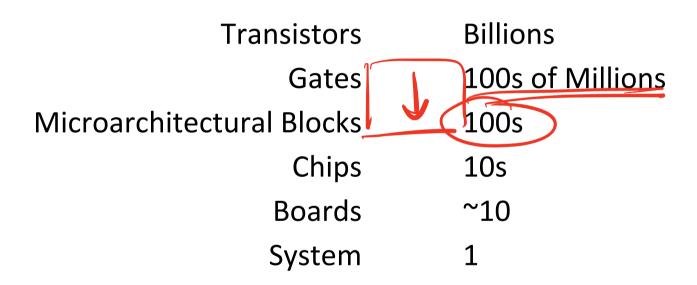


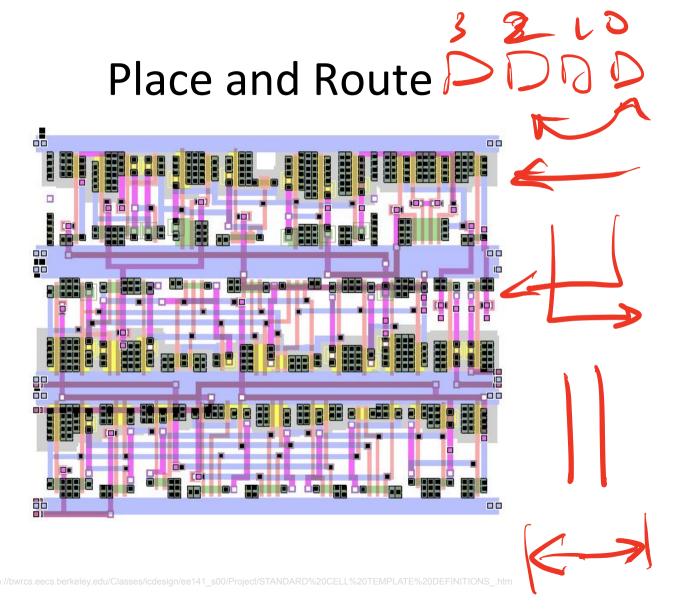


#### **Bonus - Pareto and Optimization**



#### Digital System Abstraction





## Close Design

