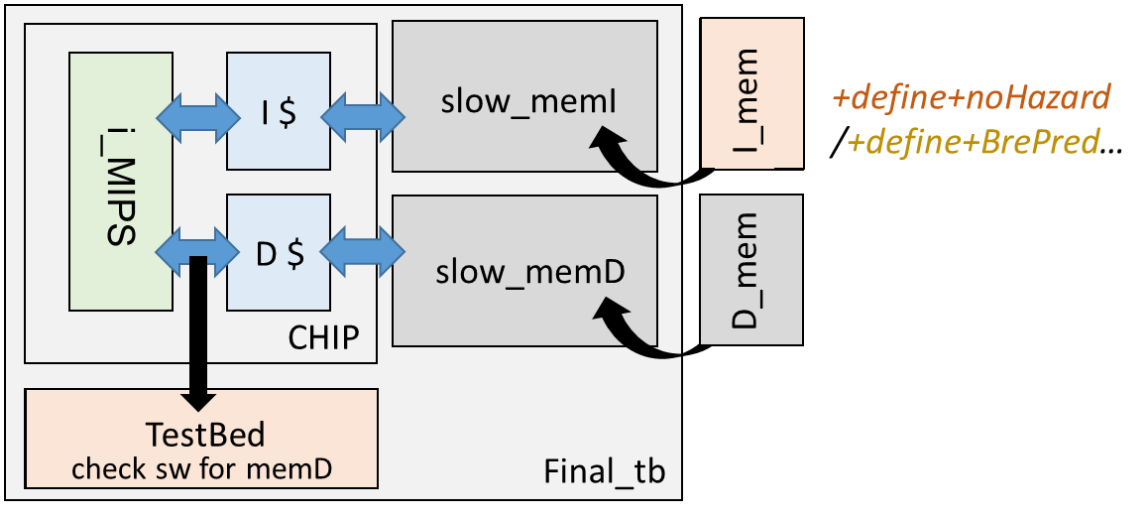
Supplement for CA Final Project 2017

about module hierarchy



about different condition (I_mem, TestBed)

Baseline:

1. No Hazard (*+define+noHazard*)
   - ✓ insert bubble instruction (NOP) to prevent hazard condition
2. Hazard handling (*+define+hasHazard*)
   - ✓ Fibonacci

Extension:

1. Branch prediction (*+define+BrPred*)
   - ✓ a,b,c parameter
     - a: always not BEQ
     - b: BEQ/not BEQ/BEQ…
     - c: always BEQ
   - ✓ discuss the mechanism of branch prediction with different parameter
2. L2 Cache (*+define+L2Cache*)
   - ✓ long version of Fibonacci
3. Combine with assembly code (*+define+Assembly*)
   - ✓ implement assembly code written in hw2 on Final module
   - ✓ discuss how to optimize your assembly code with Final module
4. Multiply/Division (*+define+MultDiv*)