(S 631-02 Analysis and Cache Memocy
Lab 05 QiA

immediates

Sign extension
jal

immediates

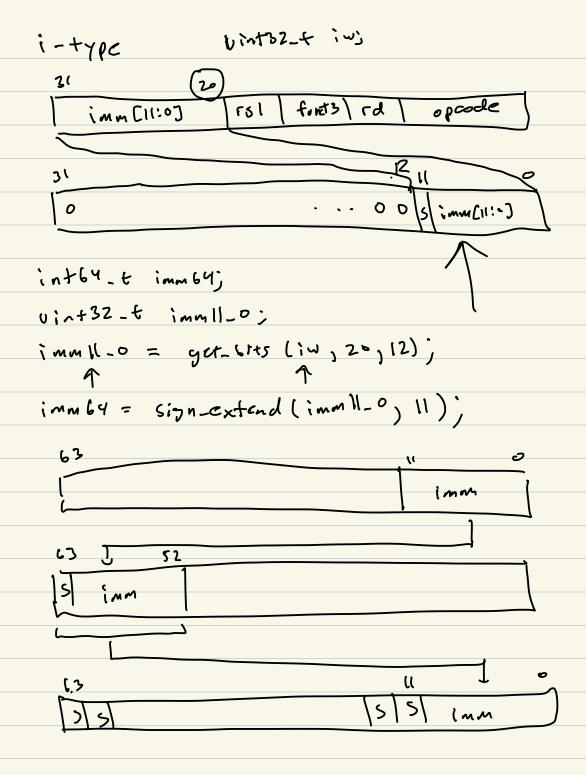
goal: create a signed 64 bit Value from the immediate bits

Steps

(1) extract immediate sequences

(2) Combine Sequences into one immediate
in the proper order

3 sign extend to 64 6.75



Sw to, 32(t1) s type 1w to ,32 (+1) [2:11]mmj rs | funds (mmC4:0) opade (Carlinal (Carlinal) vint32-4 imm11-5; vint32-4 jmm 4-0; get_bits (iw, 25,7); inall-5 = yet_1:ts(iw,7,5); 1mm4-0= int64-+ : m m64 imm69 = (imm11-5 < < 5) | imn4-0

imm69 = Sign-extend (imm64, 11);

000

vint32-f combine (v1) len1 ju2, len2,

Project03 - FUN RIDC-V Emulator

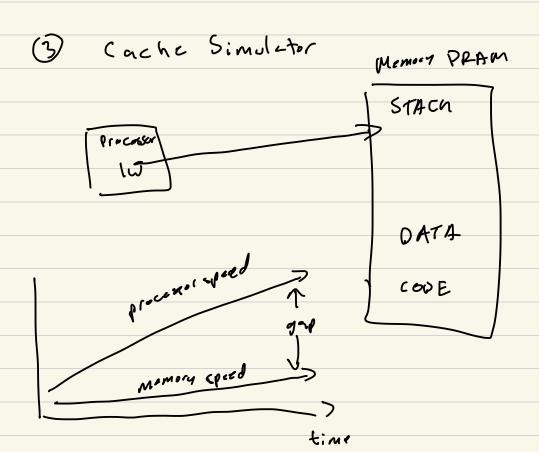
(1) Additional instructions

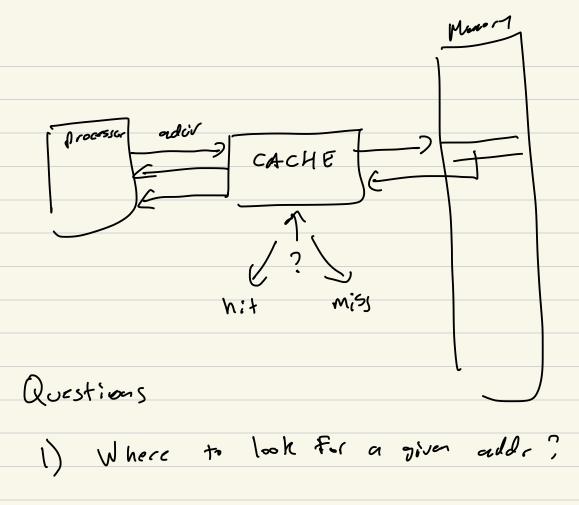
2) Dynamic Analys.3

instruction count

branch count

branch not taken





2) How to know if an adds is in the cache?

3) Now to resolve a conflict?