C5315-01 RISC-V Emulation Deu	
Project OY out today	
Project 03 exam problems	
DH today 12pm to 2:30pm	
ru_emu_c given 97 7	
ruemu.c given 97]	
1: ao, 99 6	
J	
0×66300513	
0000 0110 0011 0000 000 01010	0001 0°1'
000	Oprode
	- 4
3(20	0
5 imm	
[S] min	

Branches Extract fields funct] imm branch immediate 1) got parts 2) combine parts 3) Sign extend

1) get parts imm-12 = get-bits (12,31,1); リンクスト vint32 - t inn-11 = get- (its (in, 7, 1); vint32, t imr-10-5 = yet-6,00 (in, 26, 6); imm-4-1= yet-bits (i~18,4); 0:n+32 _4 2) combine pacts vint64-t ivamu;

immu = (imm_12 << 12) | (imm_11 << 11) / (imm_10-5) << 5) | (imm_4-16) | 0

3) sign extend

int64-+ inm = 5.5h-extern (immu, 12);

JAL Jump and Link jumps (3) jal/call for function calls Jal xo offset) offset jal/call -) jal ra, oftset [azpcty] ret PL=KA

Loads and Stores Iw ao, offset (a1) do = * ((vin+32-t *) ~1) torget address (TA) TA = al + offset

rd = *((v: 132-4 *) TA)

101 / E3 / 1d

0000011

dest base 6 ffset addass いいけとしてぬ Uint32+ K U 12 64- 5 X

Strre

TA = NI coffset