CS315-01 RISC-V ASSEMBLY 2 Functions, Arrays, Control Project01 explaining code quality Laboz today Tue loth Exam problems Wed 11th Project 02 coming by fri

RISC-U Assembly

More instructions neral access

if/then/else

10005 gdb

Instructions and lestites 32 add to, ti, tz to = t to = t1+t2 1 4 1 dest src addi ao, ao, l immediate

immediate

immediate registers: Kojki, ..., XII arguments ao, al, az, az, ... returnatur do 3 anagories of instructions

control

data processing

int arr (3) = 21,2,3 } Arrays Memo-1 8 5608501 (855 4373 arr sumBarrac (int arr (3) 3 return ancestancistances; load Store # to = * ao] Iw to, (no) dst addr rey (32 6.7)

4 bytes (int)

Control Statements if/then/clsz ASM ao - int val int val; int () if (val >0) } ble ao, zero, else i done 3 else E else: li to, o done:

ble is a conditional branch
j is an uncondition jump

10005 ASM 失いーにっす: loopson (int n) th the int sum intij 100p sum -5: 1; 60,0 int sun ? 0) 1: t1,0 for (i=0); < n; i++) & SUM = SUM + i bge to, to, done add that, to addi to, to,) j 100 p done: MIDOSTI 105