HW 2 2.2, 2.4, 2.5, 2.7, 2.13.1, 2.13.2

CPE 431

2.2 f = (g+h) + i;

2.4 f=\$\pi_s\pi, g=\$\pi_s1, h=\$\pi_s2, i=\$\pi_s3, j=\$\pi_s4

A[0] =\$\pi_s6; B[0] = \$\pi_s7

-1\pi' \$\pi' \$\pi\pi, 0(\pi_t) \quad \quad \pi_t2, \quad \pi_t\pi, \quad \quad \pi_t\pi, \quad \quad \pi_t\pi, \qu

\$t\$, 2.5. 511 150, 2 #tø; \$56, \$t\$ #El, \$51, 5// #51, It/ ItI, add \$50, Ø(\$t\$) W \$ (\$ to, 4 (\$ to) #to, Ito, \$50 add Btd, Ø(#t1) SW

4 Ask about type on pg. 69

2.7 OXABCDEF12

	Big	Endign
	Aggr	Val
	0	AB
	4	CD
The second second	00	EF
	12	12
١		

Little	Endian
Addr	Val
0	12
4	EF
8	CD
12	AB

2.13.1

Bs1 > 2,147,483,519 \$51 \ 2,147, 403, 647

2.13.2

\$51 \(\leq -2, 147, 483, 520\)
\$51 > -2, 147, 483, 648

2.13.3

\$1 ≤ -2, 147, 483, 520 #51 7 -2,147, 483, 648

2.15

0P rs rt addr 43 10 9 32 I-type 1010/11/10/10/11/10/000

2.24 Jump Addr = PC+4[31:28], addr, 2'60

Jumpi No, need 32 bits for address field. Beg: No, need 32 Lits for address.

2.26 1) \$52 = 20

.2) for (int 12/0; 170; 1-) {
 B= B+2;

.3) (5·N)+2

2.40 No, need 32 bits of address, only have 27.

Hw2 3.3, 3.6, 3.8

CPE 431

- 3.3 Ox5ED4 = (0101 1110 1101 0100)2

 Hex is a Valuable tool for discussing binary numbers
 because it is a Compact notation and can be quickly
 translated by expanding each 4-bit character
- 3.6 185, 7 101110012 122,07011110102

 0100 61

 1011 1010

 Neither Overflow nor Underflow.

 001111117 763,0
- 3.8 185, -> 1011 10012

 4 This problem says to calculate 185-122 in 8-bit signed binary, but you cannot even begin because 185 is too large for this representation. Without even running the operation there is overflow.