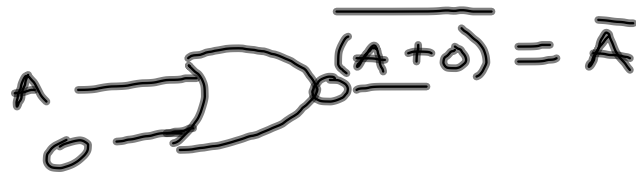


and
andi
or
ori

~~not~~

nor

~~nori~~



sll - shift left logical

sll a,b,c $a = b \ll c$

srl

sra - shift right arith.

0001	1
0010	2
0100	4

Branch instr.

unconditional jump

j address

conditional

beq a, b, address

if ($a == b$) goto address

bne a, b, addr

if ($a != b$) goto addr

slt - set less than |

slt a, b, c

if ($b < c$)

a = 1

else

a = 0

slti a, b, n

$b < n$

$$3n+1$$

n is even

$$n = n/2$$

n is odd

$$n = 3 \cdot n + 1$$

```
n=17;
while (n != 1) {
    if (n % 2 == 0)
        n = n/2; // n = n >> 1;
    else
        n = 3 * n + 1;
        // n = n + (n << 1) + 1
        //           n + n
}
```

$$\begin{array}{r} 10110101 \\ \& 00000001 \end{array}$$