## **Andi logic instruction:**

The **andi** instruction does a bitwise AND of two 32-bit patterns. At run time the 16-bit immediate operand is padded on the left with zero bits to make it a 32-bit operand.

the following is a machine code description for andi:

andi \\$rt, \\$rs, immed

## Recipe:

replace sign extend to zero extend.

changing ALUSel(Alu op).

## implementation:

this design is based on the fact that addi with some modify  $% \left\{ 1\right\} =\left\{ 1\right\}$ 

alu op 001100

## schmatic

