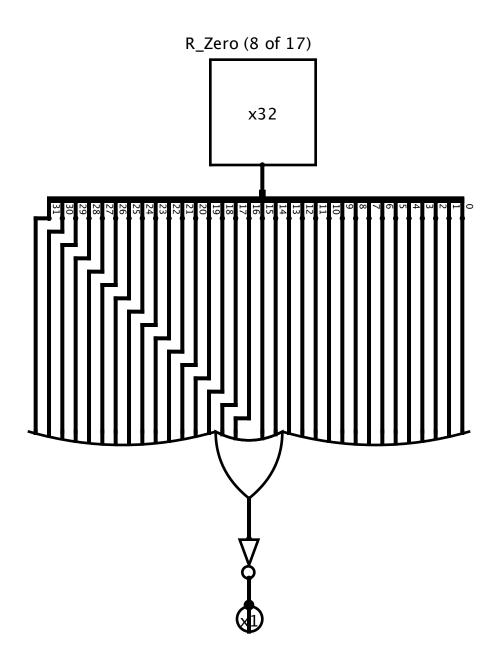


$$00 = AND$$
$$01 == OR$$

11 XOR

$$10 = NOR$$

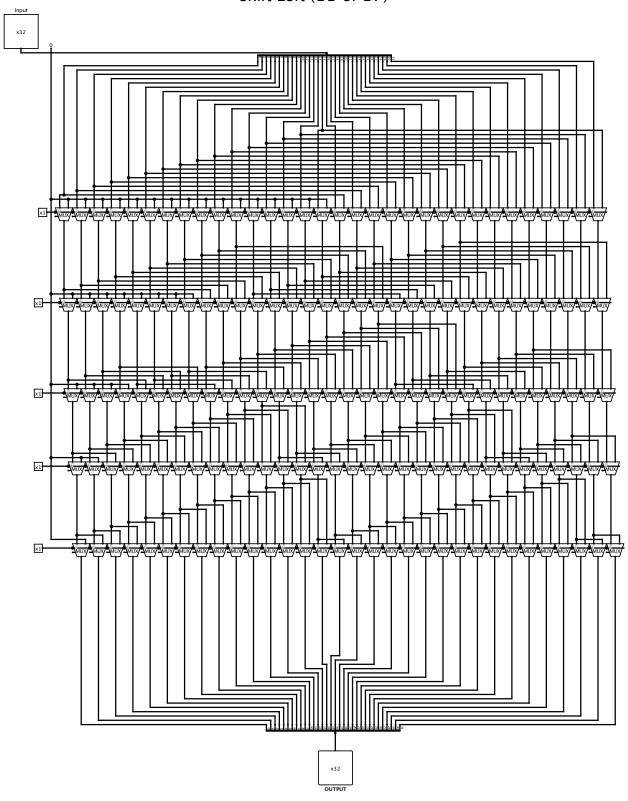


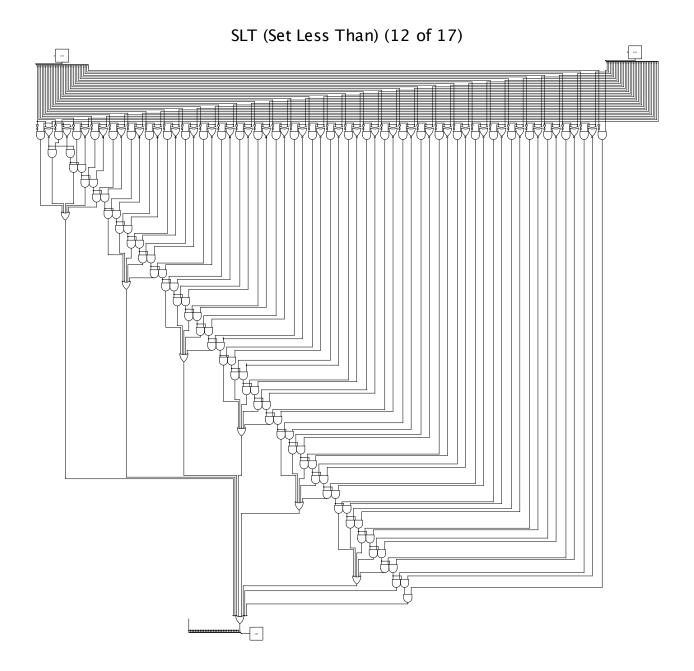
2's Complement (9 of 17) 32B NOT c in c out x32

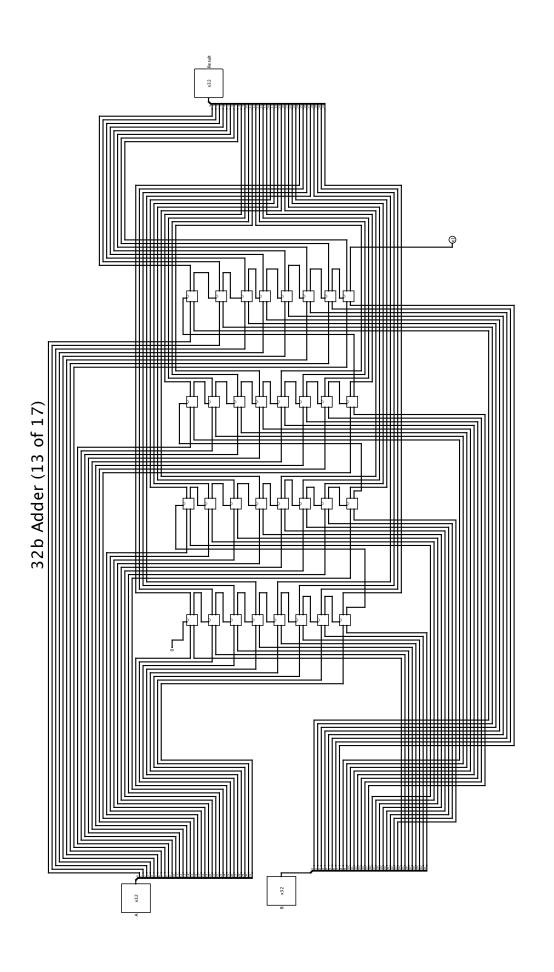
Shift Right (10 of 17) ×1 ×1

ОИТРИТ

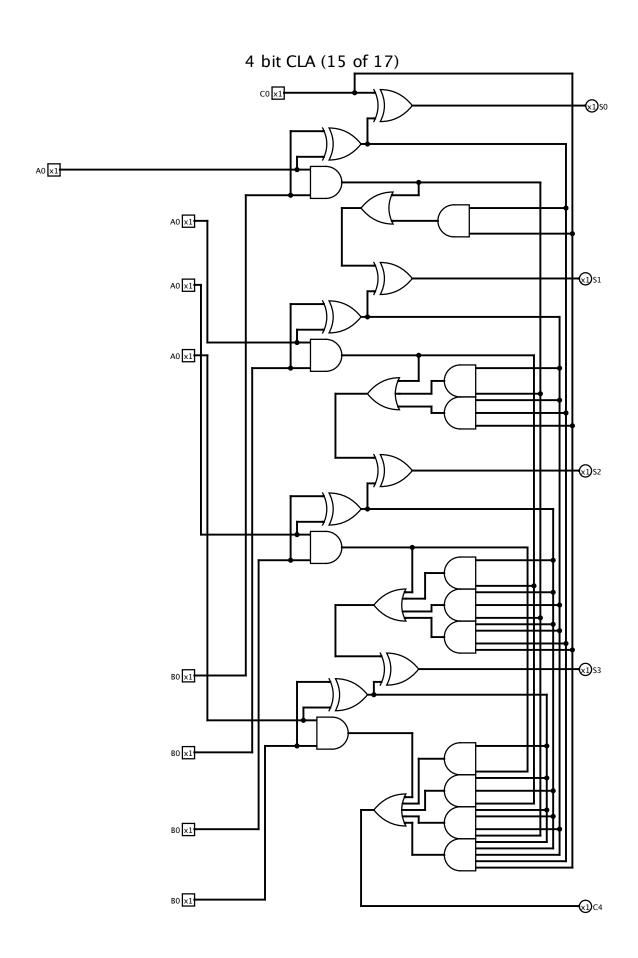
Shift Left (11 of 17)

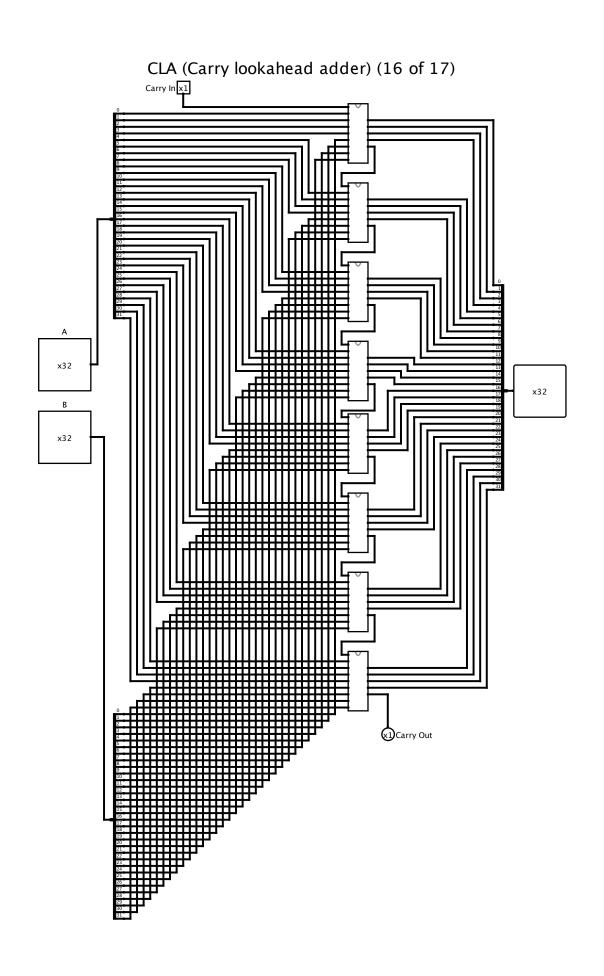






32b Subtract (14 of 17) Carry In x1 x32 x32 x32 Carry Out





main (17 of 17) Input A AND 32 x32 OR 32 x32 Input B **NOR 32** x32 **€1**)Zero X1 Carry In XOR 32 Outputs simple bit if result is Zero (Mips has no carry) 32 Bit Carry Look Ahead (CLA) Adder Subbtractor Carry Out **RSHIFT** LSHIFT ALU Control

Transmitting Shift Ammount to Shifters if chosen

SHFT AMMT