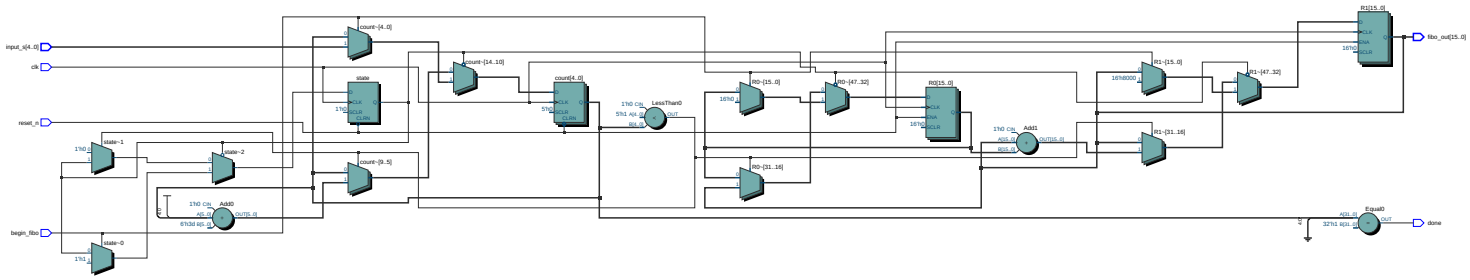

input_s[4..0]
clk
reset_n
begin_fibo
state-1
state-2
state-0
count-[4..0]
count-[9..5]
count-[14..10]
state
count[4..0]
LessThan0
Add0
R0-[15..0]
R0-[31..16]
R0-[47..32]
R0[15..0]
Add1
R1-[15..0]
R1-[31..16]
R1-[47..32]
R1[15..0]
fibo_out[15..0]
Equal0
done