

Verilog Code for 4 bit Ring Counter with Testbench

A ring counter is a digital circuit with a series of flip flops connected together in a feedback manner. The circuit is special type of shift register where the output of the last flipflop is fed back to the input of first flipflop. When the circuit is reset, except one of the flipflop output, all others are made zero. For n-flipflop ring counter we have a **MOD-n counter**. That means the counter has n different states. The circuit diagram for a 4 bit ring counter is shown below:

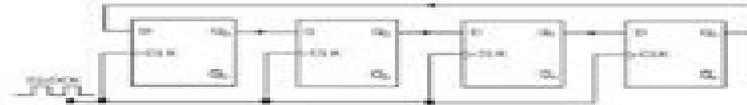


FIGURE 10.10: 4-bit Ring Counter

I have written a Verilog code for a 4-bit ring counter which has the following states: 0001 - 0010 - 0100 - 1000 and so on.

4 bit Ring Counter:

```
//declare the Verilog module - The inputs and output port names.
module ring_counter(
    Clock,
    Reset,
    Count_out
);

//what are the input ports and their sizes.
input Clock;
input Reset;
//what are the output ports and their sizes.
output [3:0] Count_out;
//Internal variables
reg [3:0] Count_temp;

//Whenever the Clock changes from 0 to 1(positive edge) or
//a change in Reset, execute the always block.
always @(posedge(Clock), Reset)
begin
    if(Reset == 1'b1) begin //when Reset is high
        Count_temp = 4'b0001; end //The Count value is reset to
"0001".
    else if(Clock == 1'b1) begin //When the Clock is high
        //Left shift the Count value.
        Count_temp = {Count_temp[2:0], Count_temp[3]}; end
    end

//The Count value is assigned to final output port.
assign Count_out = Count_temp;
endmodule
```

Testbench for Ring Counter:

```
module tb_ring;

// Inputs
reg Clock;
reg Reset;
```

4 Bit Counter Verilog Code Davefc

EW Minium



4 Bit Counter Verilog Code Davefc:

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