

## 4-bit Synchronous Counter (74LS161)

```
// 4-bit counter

module counter_4bit(clk, nclr, nload, ent, enp, rco, count, parallel_in) :

    input  clk ;
    input  nclr ;
    input  nload ;
    input  ent ;
    input  enp ;
    output rco ;
    output [3:0] count ;
    input  [3:0] parallel_in ;

    reg    [3:0] count ;
    reg    rco ;

    always @ (count or ent)
    if ((count == 15) && (ent == 1'b1))
        rco = 1'b1 ;
    else
        rco = 1'b0 ;

    always @ (posedge clk or negedge nclr)
    begin
        if (nclr == 1'b0)
            count <= 4'd0 ;
        else if (nload == 1'b0)
            count <= parallel_in ;
        else if ((ent == 1'b1) && (enp == 1'b1))
            count <= (count + 1) & 16 ;
    end
endmodule
```

# 4 Bit Counter Verilog Code Davefc

**Jiyuan Zhang**



## **4 Bit Counter Verilog Code Davefc:**

## **4 Bit Counter Verilog Code Davefc** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**4 Bit Counter Verilog Code Davefc**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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