基于FPGA的流水灯电路设计与仿真

**一、实验目的**

1. 将数字逻辑中数据选择器、译码器、计数器、分频器、移位寄存器等相关知识结合起来，实现一个功能较简单、又有一定趣味性的项目。培养学生的实践动手能力。
2. 能够掌握数字系统层次化设计方法。
3. 能够使用Verilog HDL进行电路的辅助分析和设计。

**二、实验要求**

1. 每次仅有一个LED灯亮，每隔1秒钟，亮点移动一次，不断循环。
2. 设计分频器。对50MHz信号分频，得到1Hz脉冲，作为计数器时钟输入。
3. ①设计译码器、手动控制（Mod） 的可逆计数器，使流水灯可以双向移动；

②实现自动可逆计数器，让亮点能够自动地双向移动。

③将图1.1中虚线框内部的两个模块改成8位双向移位寄存器，实现上述电路功能。

1. 如果每次有两个（或者3个等） LED灯亮，并自动地移动，你如何修改上述电路？

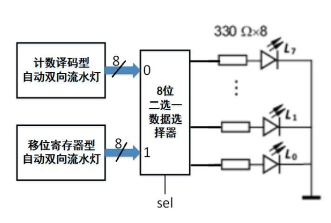
（理论上可以将移位寄存器的输入数据D修改成有多个高电平输入，仿真不再尝试。）

1. 试将上述两种自动双向流水灯电路集成在一起，用一个开关选择其中的一个电路，实现 8 个LED的流水灯。
2. **实验原理**

**1.组成框图、工作原理**

![图片包含 形状

描述已自动生成](data:image/tiff;base64,TU0AKgAGblAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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AJQAAAAAAAAAAAAAAAAAAACTAAAAxwAAAAAAAACkAAAAjgAAAHAAAABwAAAAcAAAAJQAAAB5AAAAAAAAAA8AAADyAAAAiAAAAGsAAABrAAAAZQAAAFwAAABoAAAAawAAAOwAAABRAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAPAAAAA0AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAbAAAAFwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEQAAACkAAAAAAAAAAAAAAA0AAAAOAAAAAAAAAAIAAAAKAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAVwAAAB0AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAcAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABFAAAAKwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACIAAAA9AAAAPQAAAD4AAAArAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD4AAAAcAAAAAAAAABYAAAAXAAAAAAAAAAAAAAAAAAAAMgAAAD4AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAmAAAACgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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A/kEBgQTBCAELQQ7BEgEVQRjBHEEfgSMBJoEqAS2BMQE0wThBPAE/gUNBRwFKwU6BUkFWAVnBXcFhgWWBaYFtQXFBdUF5QX2BgYGFgYnBjcGSAZZBmoGewaMBp0GrwbABtEG4wb1BwcHGQcrBz0HTwdhB3QHhgeZB6wHvwfSB+UH+AgLCB8IMghGCFoIbgiCCJYIqgi+CNII5wj7CRAJJQk6CU8JZAl5CY8JpAm6Cc8J5Qn7ChEKJwo9ClQKagqBCpgKrgrFCtwK8wsLCyILOQtRC2kLgAuYC7ALyAvhC/kMEgwqDEMMXAx1DI4MpwzADNkM8w0NDSYNQA1aDXQNjg2pDcMN3g34DhMOLg5JDmQOfw6bDrYO0g7uDwkPJQ9BD14Peg+WD7MPzw/sEAkQJhBDEGEQfhCbELkQ1xD1ERMRMRFPEW0RjBGqEckR6BIHEiYSRRJkEoQSoxLDEuMTAxMjE0MTYxODE6QTxRPlFAYUJxRJFGoUixStFM4U8BUSFTQVVhV4FZsVvRXgFgMWJhZJFmwWjxayFtYW+hcdF0EXZReJF64X0hf3GBsYQBhlGIoYrxjVGPoZIBlFGWsZkRm3Gd0aBBoqGlEadxqeGsUa7BsUGzsbYxuKG7Ib2hwCHCocUhx7HKMczBz1HR4dRx1wHZkdwx3sHhYeQB5qHpQevh7pHxMfPh9pH5Qfvx/qIBUgQSBsIJggxCDwIRwhSCF1IaEhziH7IiciVSKCIq8i3SMKIzgjZiOUI8Ij8CQfJE0kfCSrJNolCSU4JWgllyXHJfcmJyZXJocmtyboJxgnSSd6J6sn3CgNKD8ocSiiKNQpBik4KWspnSnQKgIqNSpoKpsqzysCKzYraSudK9EsBSw5LG4soizXLQwtQS12Last4S4WLkwugi63Lu4vJC9aL5Evxy/+MDUwbDCkMNsxEjFKMYIxujHyMioyYzKbMtQzDTNGM38zuDPxNCs0ZTSeNNg1EzVNNYc1wjX9Njc2cjauNuk3JDdgN5w31zgUOFA4jDjIOQU5Qjl/Obw5+To2OnQ6sjrvOy07azuqO+g8JzxlPKQ84z0iPWE9oT3gPiA+YD6gPuA/IT9hP6I/4kAjQGRApkDnQSlBakGsQe5CMEJyQrVC90M6Q31DwEQDREdEikTORRJFVUWaRd5GIkZnRqtG8Ec1R3tHwEgFSEtIkUjXSR1JY0mpSfBKN0p9SsRLDEtTS5pL4kwqTHJMuk0CTUpNk03cTiVObk63TwBPSU+TT91QJ1BxULtRBlFQUZtR5lIxUnxSx1MTU19TqlP2VEJUj1TbVShVdVXCVg9WXFapVvdXRFeSV+BYL1h9WMtZGllpWbhaB1pWWqZa9VtFW5Vb5Vw1XIZc1l0nXXhdyV4aXmxevV8PX2Ffs2AFYFdgqmD8YU9homH1YklinGLwY0Njl2PrZEBklGTpZT1lkmXnZj1mkmboZz1nk2fpaD9olmjsaUNpmmnxakhqn2r3a09rp2v/bFdsr20IbWBtuW4SbmtuxG8eb3hv0XArcIZw4HE6cZVx8HJLcqZzAXNdc7h0FHRwdMx1KHWFdeF2Pnabdvh3VnezeBF4bnjMeSp5iXnnekZ6pXsEe2N7wnwhfIF84X1BfaF+AX5ifsJ/I3+Ef+WAR4CogQqBa4HNgjCCkoL0g1eDuoQdhICE44VHhauGDoZyhteHO4efiASIaYjOiTOJmYn+imSKyoswi5aL/IxjjMqNMY2Yjf+OZo7OjzaPnpAGkG6Q1pE/kaiSEZJ6kuOTTZO2lCCUipT0lV+VyZY0lp+XCpd1l+CYTJi4mSSZkJn8mmia1ZtCm6+cHJyJnPedZJ3SnkCerp8dn4uf+qBpoNihR6G2oiailqMGo3aj5qRWpMelOKWpphqmi6b9p26n4KhSqMSpN6mpqhyqj6sCq3Wr6axcrNCtRK24ri2uoa8Wr4uwALB1sOqxYLHWskuywrM4s660JbSctRO1irYBtnm28Ldot+C4WbjRuUq5wro7urW7LrunvCG8m70VvY++Cr6Evv+/er/1wHDA7MFnwePCX8Lbw1jD1MRRxM7FS8XIxkbGw8dBx7/IPci8yTrJuco4yrfLNsu2zDXMtc01zbXONs62zzfPuNA50LrRPNG+0j/SwdNE08bUSdTL1U7V0dZV1tjXXNfg2GTY6Nls2fHadtr724DcBdyK3RDdlt4c3qLfKd+v4DbgveFE4cziU+Lb42Pj6+Rz5PzlhOYN5pbnH+ep6DLovOlG6dDqW+rl63Dr++yG7RHtnO4o7rTvQO/M8Fjw5fFy8f/yjPMZ86f0NPTC9VD13vZt9vv3ivgZ+Kj5OPnH+lf65/t3/Af8mP0p/br+S/7c/23//3BhcmEAAAAAAAMAAAACZmYAAPKnAAANWQAAE9AAAApbdmNndAAAAAAAAAABAAEAAAAAAAAAAQAAAAEAAAAAAAAAAQAAAAEAAAAAAAAAAQAAbmRpbgAAAAAAAAA2AACnQAAAVYAAAEzAAACewAAAJYAAAAzAAABQAAAAVEAAAjMzAAIzMwACMzMAAAAAAAAAAHNmMzIAAAAAAAEMcgAABfj///MdAAAHugAA/XL///ud///9pAAAA9kAAMBxbW1vZAAAAAAAAAYQAACgKQAAAADOzAoAAAAAAAAAAAAAAAAAAAAAAHZjZ3AAAAAAAAMAAAACZmYAAwAAAAJmZgADAAAAAmZmAAAAAjMzNAAAAAACMzM0AAAAAAIzMzQA)



1. **代码实现**

**原理分析**

①三八线译码器：有三个使能端，E3高电平有效，E2,E1低电平有效。

②带手动控制端的可逆计数器：M为Mod选择端口。M=1,正向计数；M=1,减计数。CLR\_N实现异步清零。

③自动的可逆计数器：内部设有flag信号，当计数到6时，flag为1；计数到1时flag为0。作为正计数和逆计数的标志。

④分频器：50M到1，时间周期增大了50\_000\_000倍，故设置一个内部变量计数，每记录到24\_999\_999时，产生的时钟信号翻转一次，达到分频的效果。

⑤双向移位寄存器：下降沿触发，带异步清零、的双向移位寄存器。通过地址信号S1和S0实现方向选择和功能选择。

⑥八位二选一选择器：将译码器和移位寄存器的输出端接到选择器的输入，S的高低电平控制实现模式选择。

**代码以及仿真截图**

**三八线译码器**

module decoder3\_8(//3\_8线译码器

input [2:0] a,//输入端口a,[2:0]表示位宽

input g1,

input g2,

input g3,//使能信号1~3

output reg[7:0] y//输出端口y，[7:0]表示位宽

);

always @(\*) begin

if({g1,g2,g3} != 3'b100) //g1 g2 g3位使能信号，当他们为100是使能(正常运行)

y <= 8'h00;

else

case(a)

3'b000: y <= 8'b0000\_0001;

3'b001: y <= 8'b0000\_0010;

3'b010: y <= 8'b0000\_0100;

3'b011: y <= 8'b0000\_1000;

3'b100: y <= 8'b0001\_0000;

3'b101: y <= 8'b0010\_0000;

3'b110: y <= 8'b0100\_0000;

3'b111: y <= 8'b1000\_0000;

endcase

end

endmodule

**分频器**

module freq\_change(//分频器

//system signals

input clk,//50Mhz 晶振频率

input rst\_n,//系统复位

output reg clk\_1hz//1Hz时钟

);

reg [25: 0] clk\_cnt;//时钟内部计数器，用于分频

//占空比为50%，50MHz，则周期为20ns，10ns完成一次翻转

always @(posedge clk or negedge rst\_n) begin

if(rst\_n == 1'b0)//如果rst\_n为0，时钟计数清零

clk\_cnt <= 'd0;

else if(clk\_cnt == 'd24\_999\_999)//将50MHz分频为1Hz（24'900'000是因为占空比为50%）

clk\_cnt <= 'd0;

else

clk\_cnt <= clk\_cnt + 1'b1;//时钟内部计数器

end

//clk\_1hz

always @(posedge clk or negedge rst\_n) begin

if(rst\_n == 1'b0)//检测置零信号

clk\_1hz <= 1'b0;

else if(clk\_cnt == 'd24\_999\_999)

clk\_1hz <= ~clk\_1hz;//反转

end

endmodule

**计数器（手动）**

module counter(//可逆计数器

//system signals

input clk\_1hz,//分频器输出的时钟频率

input rst\_n,//复位信号

//function key

input clr\_n,//clr\_n=0时，清零（异步）

input stop\_n,//stop\_n=0时，暂停计数（异步）

input M,//M=1时，递增计数;M=0时，递减计数

//led output

output reg [2:0] counter,

);

//counter，它的输出将被输入到译码器中

always @(posedge clk\_1hz or negedge rst\_n or negedge clr\_n or negedge stop\_n) begin

if(rst\_n == 1'b0)//系统复位

counter <= 3'b000;

else if(clr\_n == 1'b0)

counter <= 3'b000;//clr\_n=0时，清零（异步）

else if(stop\_n == 1'b0) //stop\_n=0时，暂停计数（异步）

counter <= counter;

else if(M == 1'b1) //M=1时，递增计数

counter <= counter + 1'b1;

else //M=0时，递减计数

counter <= counter - 1'b1;

end

endmodule

**计数器（自动）**

module counter\_auto(

input clr\_n ,

input stop\_n ,

input clk\_1hz,

output reg [2:0] counter

);

reg flag ;

always @(posedge clk\_1hz or negedge clr\_n) begin

if(clr\_n == 1'b0)

flag <= 1'b1;

else if(counter == 'd6)//notation blocking

flag <= 1'b0;

else if(counter == 'd1)

flag <= 1'b1;//注意这个地方的6和1，因为是非阻塞型赋值

end

//counter

always @(posedge clk\_1hz or negedge clr\_n or negedge stop\_n) begin

if(clr\_n == 1'b0)

counter <= 3'b000;

else if(stop\_n == 1'b0)

counter <= counter;

else if(flag == 1'b1)

counter <= counter + 1'b1;

else if(flag == 1'b0)

counter <= counter - 1'b1;

end

endmodule

**移位寄存器(手动反向)**

module shift\_register\_8(//8位移动寄存器

input S1,

input S0,

input CP,

input CR,

input [7:0] D,

output reg [7:0] Q

);

reg flag ;

always @(posedge clk\_1hz or negedge clr\_n) begin

if(clr\_n == 1'b0)

flag <= 1'b1;

else if(counter == 'd6)//notation blocking

flag <= 1'b0;

else if(counter == 'd1)

flag <= 1'b1;//注意这个地方的6和1，因为是非阻塞型赋值

end

always @ (negedge CP, negedge CR)

if (~CR)

Q <= 8'b00000000;

else

case({S1, S0})

2'b00: Q <= Q;

2'b01: Q <= {Q[6:0], Q[7]};

2'b10: Q <= {Q[0], Q[7:1]};

2'b11: Q <= D;

endcase

endmodule

**移位寄存器(自动反向)（未启用）**

module shift\_register\_8(//8位移动寄存器

input S1,

input S0,

input CP,

input CR,

input [7:0] D,

output reg [7:0] Q

);

reg flag = 1;

always @ (negedge CP, negedge CR) begin

if (~CR) flag <= 1;

if(Q == 'b0000010)//notation blocking

flag <= 1;

else if(Q == 'b01000000)

flag <= 0;//注意这个地方的6和1，因为是非阻塞型赋值

end

always @ (negedge CP, negedge CR)

if (~CR)

Q <= 8'b00000000;

else if(flag == 1)

case({S1, S0})

2'b00: Q <= Q;

2'b01: Q <= {Q[6:0], Q[7]};

2'b10: Q <= {Q[0], Q[7:1]};

2'b11: Q <= D;

endcase

else if(flag == 0)

case({S1, S0})

2'b00: Q <= Q;

2'b10: Q <= {Q[6:0], Q[7]};

2'b01: Q <= {Q[0], Q[7:1]};

2'b11: Q <= D;

endcase

endmodule

**数据选择器**

module Mux2to1(

input [7:0] D0,

input [7:0] D1,

input S,

output reg [7:0] Y

);

always @ (D0 or D1 or S) begin

if (S == 0)

Y = D0;

else if (S == 1)

Y = D1;

end

endmodule

1. **整体代码以及仿真**

module waterfall(

input clk,

input rst\_n ,//system

input clr\_n,

input stop\_n,//counter

input g1,g2,g3,//decoder

input S1,S0,CR,

input [7:0] D,//shift

input S,//Mux

output wire[7:0] Q

);

wire clk1hz;

wire [2:0] counter;

wire [7:0] Y;

wire [7:0] X;

freq\_change freq\_change\_inst(clk,rst\_n,clk1hz);

counter\_auto counter\_inst(clr\_n,stop\_n,clk1hz,counter);

decoder3\_8 decoder3\_8\_inst(counter,g1,g2,g3,Y);//counter+decoder

shift\_register\_8 shift\_register\_8\_inst(S1, S0, clk1hz, CR, D, X);//shift

Mux2to1 Mux2to1\_inst(X,Y,S,Q);

endmodule

`timescale 10ns/1ns

module waterfall\_test();

reg clk;

reg rst\_n;//system

reg clr\_n;

reg stop\_n;//counter

reg g1,g2,g3;//decoder

reg S1,S0,CR;

reg [7:0] D;//shift

reg S;//Mux

wire [7:0]Q;

waterfall waterfall\_test(clk,rst\_n,clr\_n,stop\_n,g1,g2,g3,S1,S0,CR,D,S,Q);

initial begin

clk=0;

rst\_n=0;//system

clr\_n=0;

stop\_n=0;//counter

g1=1;

g2=0;

g3=0;//decoder

S1=1;

S0=1;

CR=1;//shift

D=8'b1000\_0000;

S=1;//initial

#2

clr\_n=1;

#2

rst\_n=1;

//clr\_n=1;

stop\_n=1;

S1=0;

S0=1;

//# 2000000stop();

end

always begin

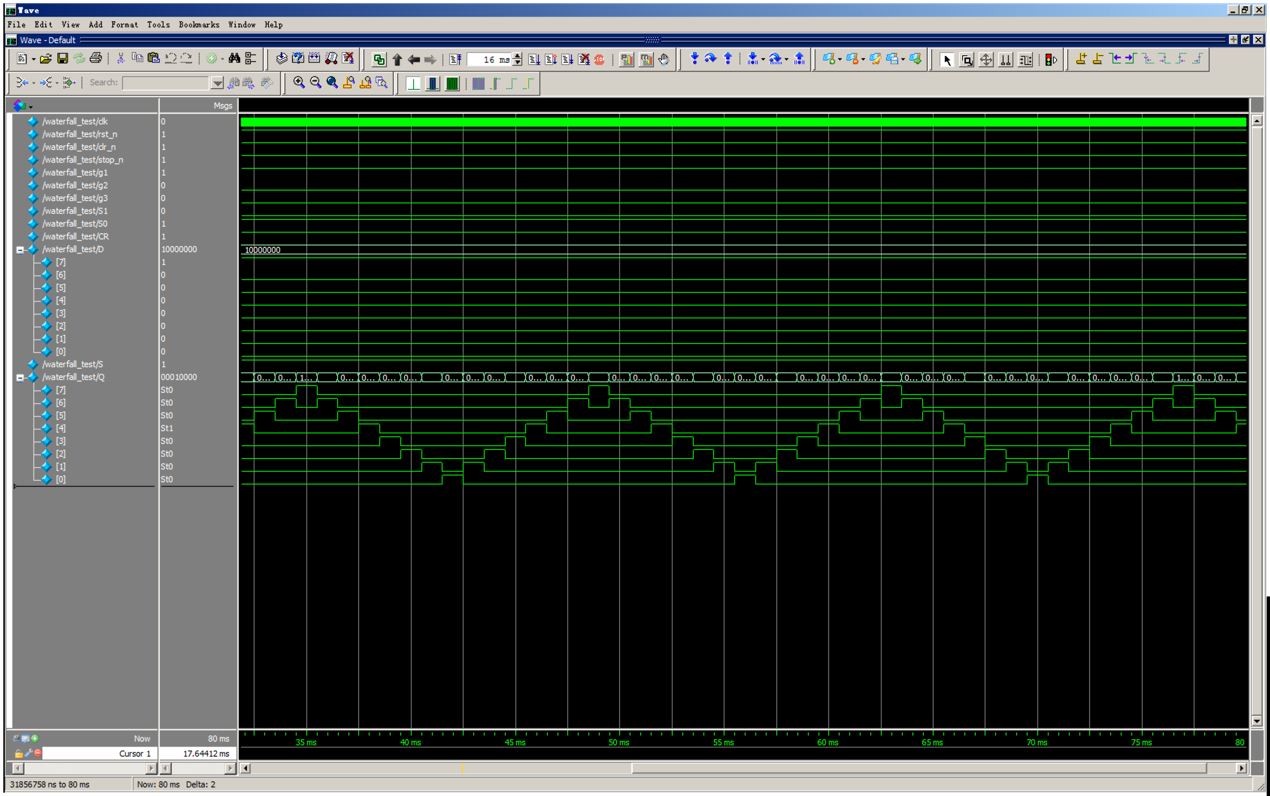
#1 clk= ~clk;

end

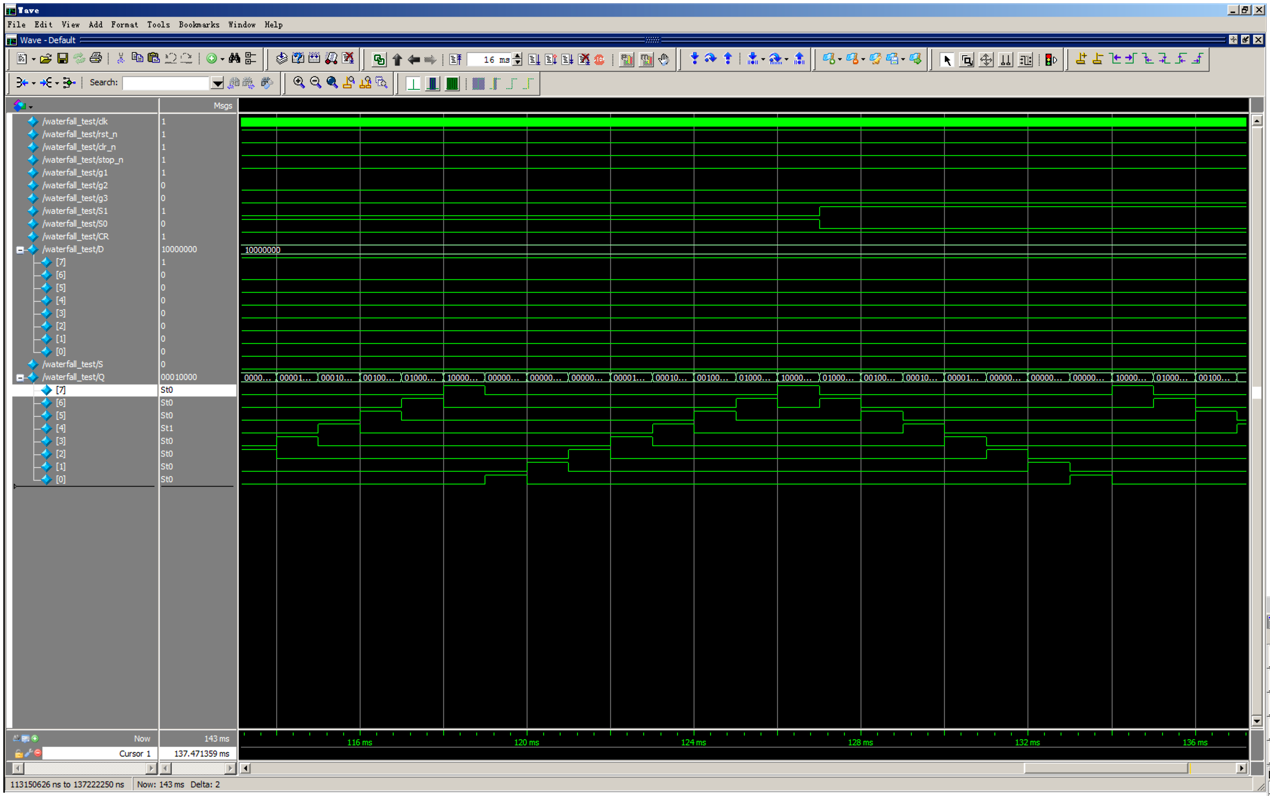
endmodule

实际仿真过程中，分频器稍作修改，改成了1KHz的输出频率，加快得到结果的速度

选择译码器输出时



移位寄存器输出时：



**四、调试过程**

**①调试步骤**

确定各模块之间的连接方式，先分模块仿真，再写总文件，缩短时间频率进行仿真。

**②调试中碰到的问题及解決方法**

语法错误如分号和逗号；层级调用之间没有注意要用wire类型；写testbench时没有实例化；对时间参数理解不够；写自动可逆计数器时到6或1就可停止的逻辑错误以及写分频器时取非后要一直保持的逻辑错误。根据提示和仿真结果不断修正代码，得到仿真结果。

**五、收获与体会**

本次实验中，熟悉了流水灯的基本原理，复习了触发器、计数器、译码器、寄存器的原理和编写及运用。并且在实际操作中提高了写Verilog 代码的效率和调试错误的能力。逻辑分析中，训练了自己思考问题的能力。