```
always @ (posedge clk or posedge rst)
begin
 if (rst == 1'b1) begin
cnt = 1'b0;
 end else begin
   if (cnt == 1'b1) begin
cnt = 1'b0;
   end else begin
     cnt = cnt + 1'b1;
   end
 end
end
always @ (posedge clk or posedge rst)
begin
 end
 else begin
     1'b1: r_state = 128'hAAAAAAAA_AAAAAAAAAAAAAAAAAAAAAA ;
      endcase
 end
end
```