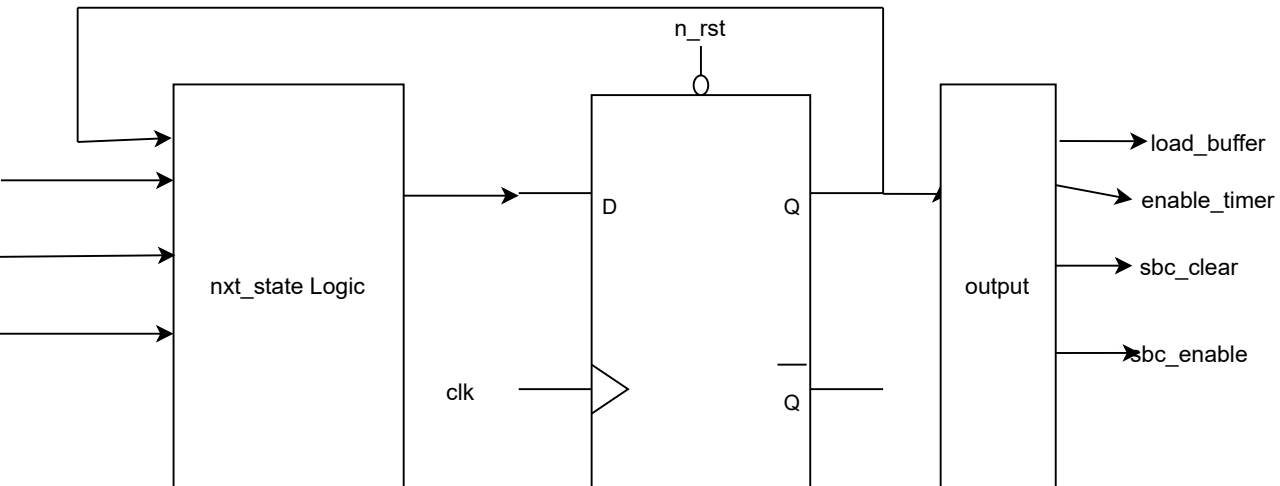


Packet Done

framing error —

Start Bit Detected —



```

case(mode):
IDLE:
  if(start_bit_detected):
    nxt_state = START
  else:
    nxt_state = IDLE
START:
  nxt_state = DATA_COLLECT
DATA_COLLECT:
  if(packet_done):
    nxt_state = STOP
  else
    nxt_state = DATA_COLLECT
STOP:
  if(framming_error)
    nxt_state = IDLE
  else
    nxt_state = LOAD
LOAD:
  nxt_state = IDLE

assign sbc_clear = (state == START)
assign enable_timer = (state == DATA_COLLECT)
assign sbc_enable = (state == STOP)
assign load_buffer = (state == LOAD)

```