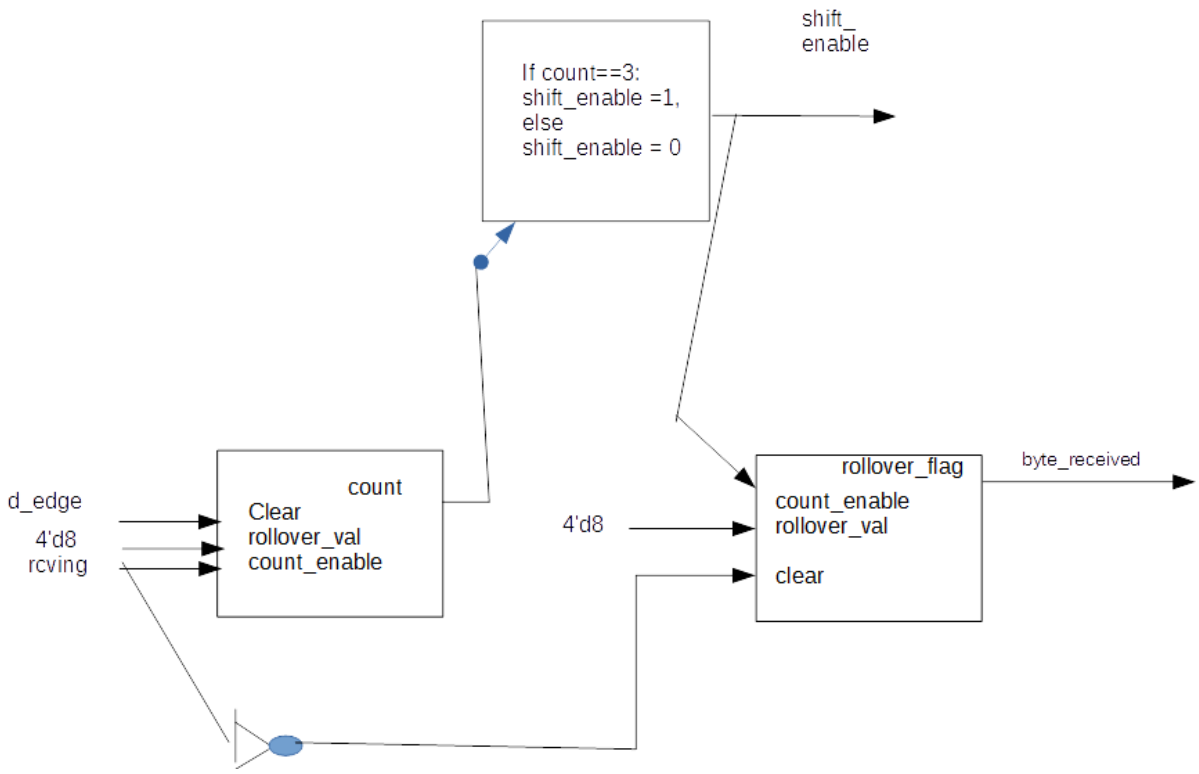
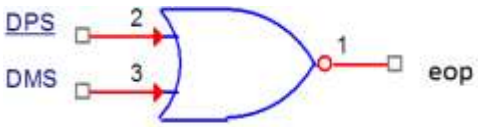
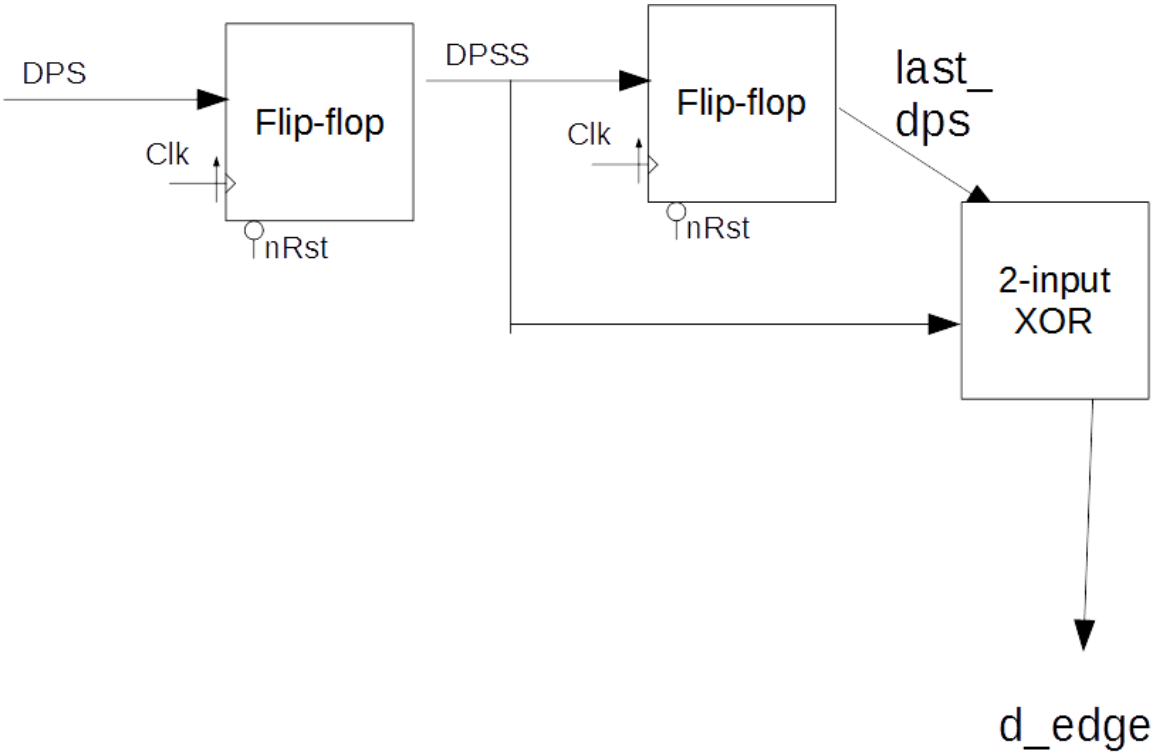
TIMER block diagram using flex counters



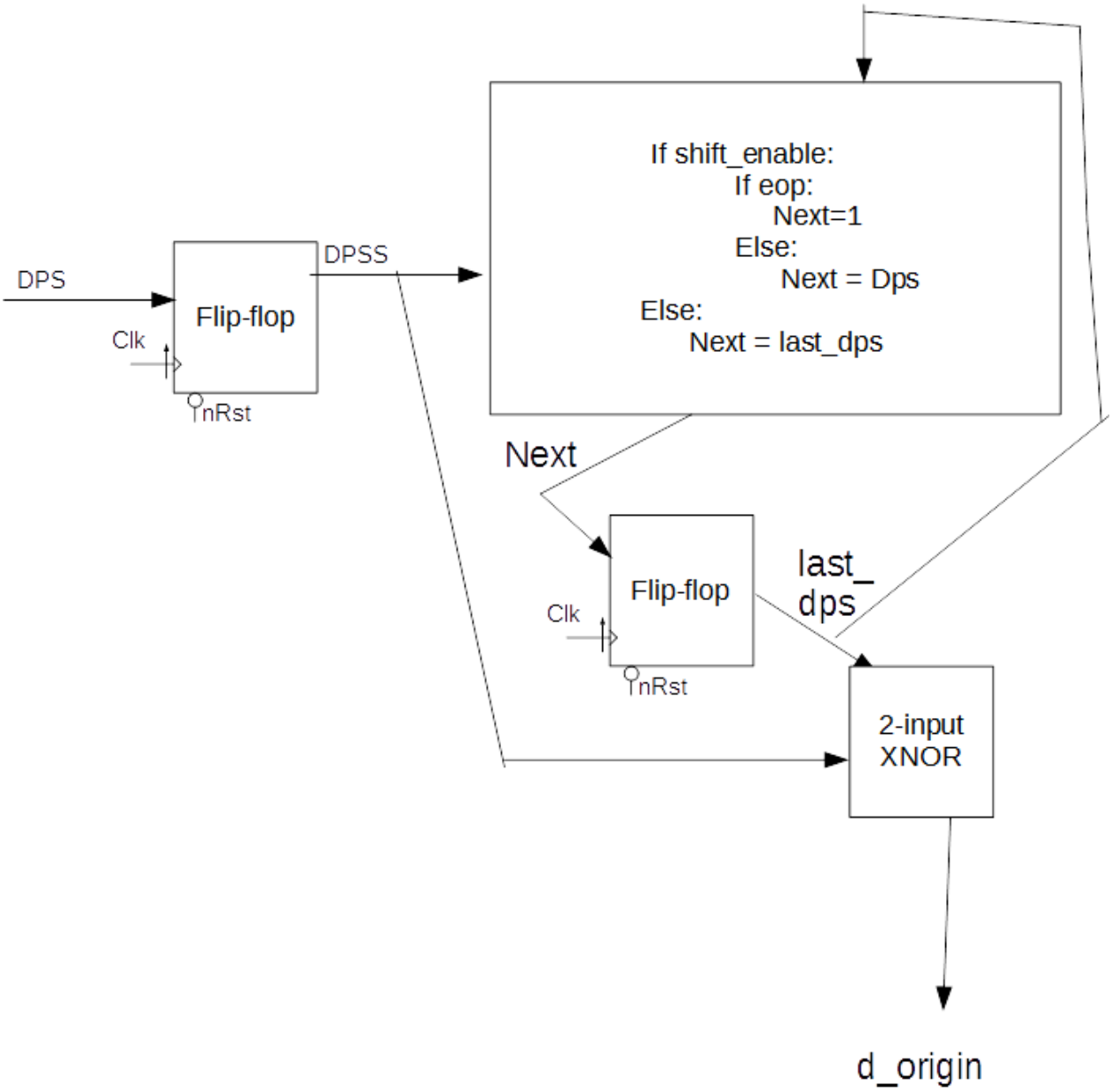
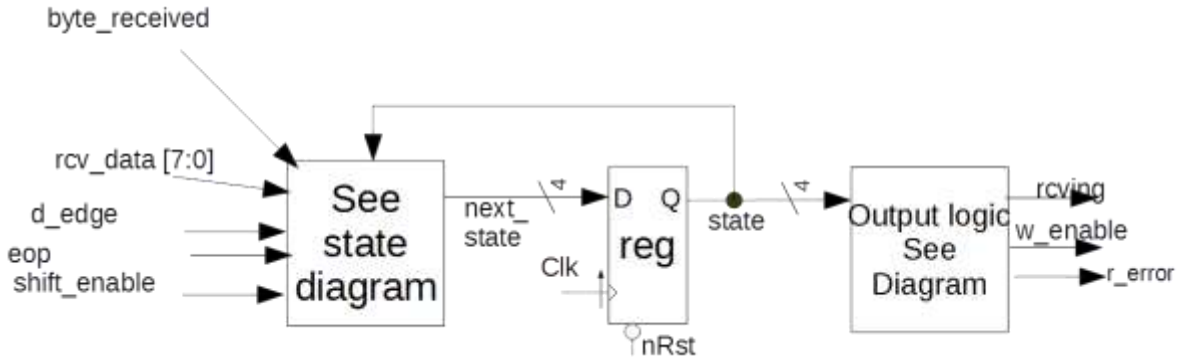
EOP DETECTOR



EDGE DETECT


DPS
Flip-flop
Clk
nRst
DPSS
Flip-flop
Clk
nRst
last_
dps
2-input
XOR
d_edge

DECODE RTL


If shift_enable:
If eop:
Next=1
Else:
Next = Dps
Else:
Next = last_dps
DPS
Flip-flop
Clk
nRst
DPSS
Next
Flip-flop
Clk
nRst
last_
dps
2-input
XNOR
d_origin

CONTROLLER RTL