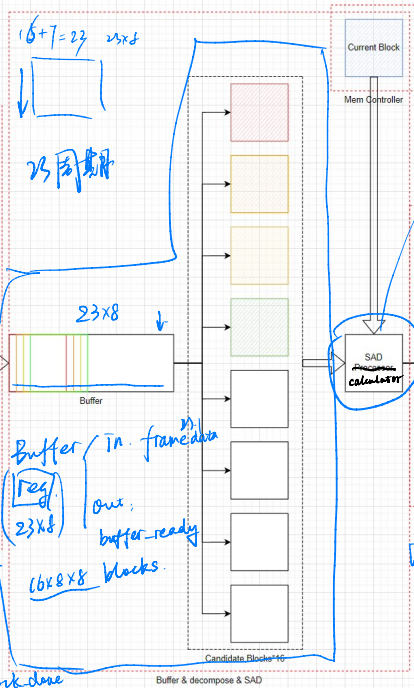
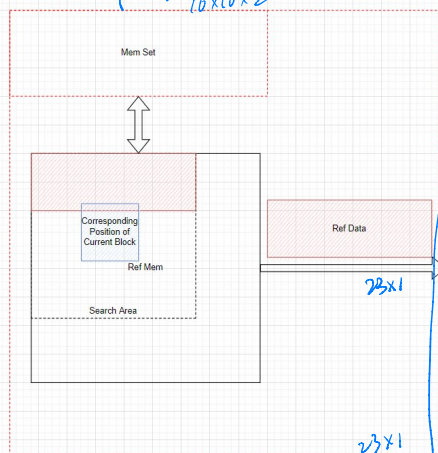
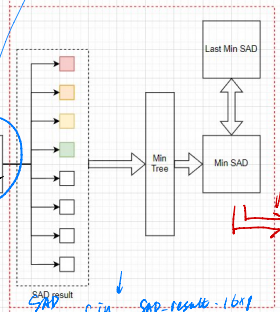


in: Clk, rst, ref\_data (23x1) cur\_data (8x1)

out: me of frame (16x16x2)



SAD Calculator  
in: 16x8x8 ref-blocks, 8x8 cur-block  
out: SAD\_result (16x1)



result reg

Controller  
in: Clk, rst, ref\_data (23x1) cur (8x1)  
out: ~~cur~~ ref\_data cur\_ready cur (8x8), block done frame done

SAD result (16x1) Done  
in: 16x16x2  
out: me of frame