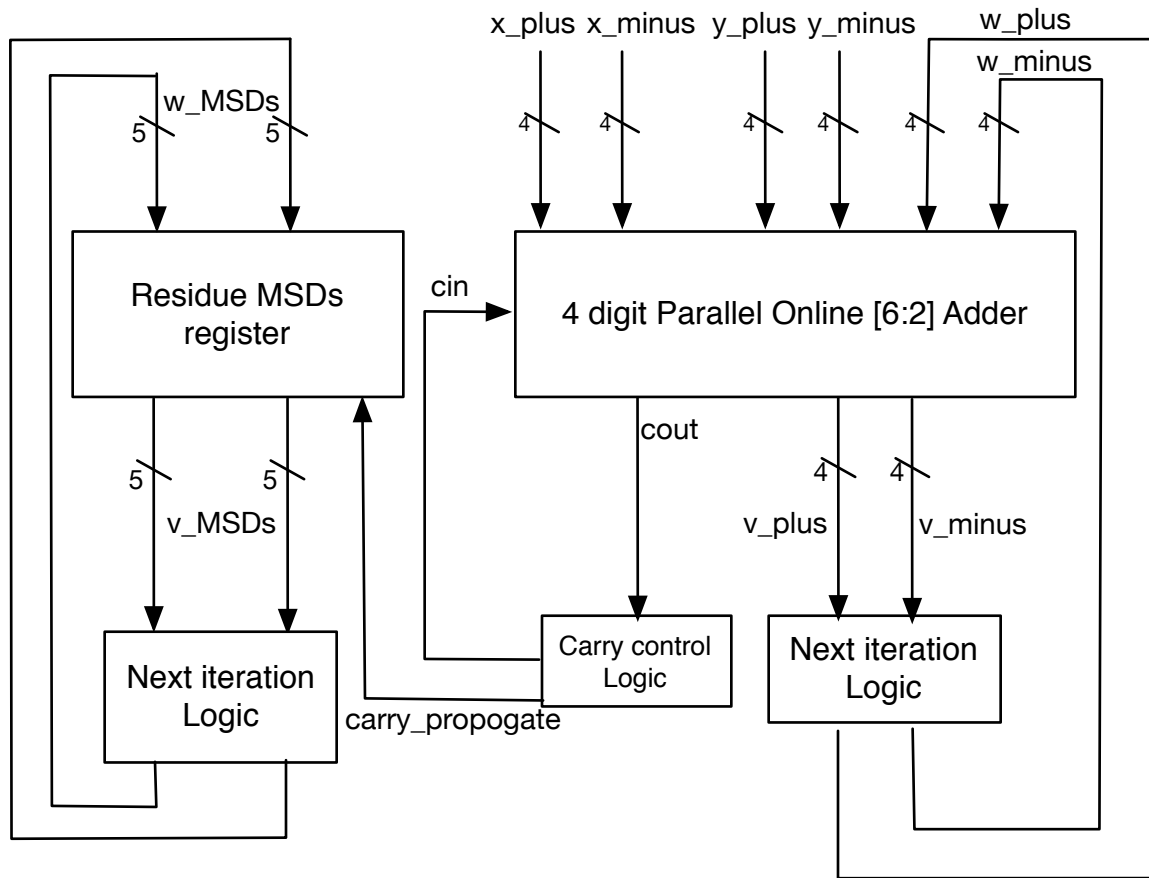


(a) Conventional Structure



*both w_MSDs and v_MSDs are in signed representation, and therefore contains a plus part and a minus part, each part is 5-bit wide

(b) Optimized Structure