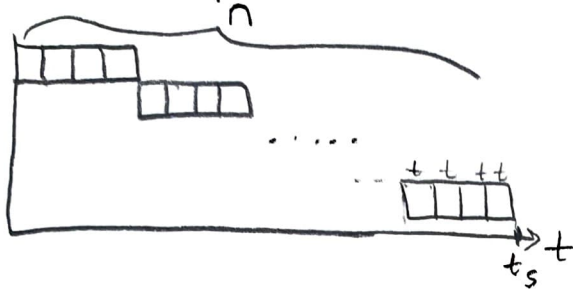


Fatih Yildiz

Q 3.2) Assume a reasonable vector length of  $n$ . The unpipelined (sequential) time diagram of the adder looks like;



Since there are 4 steps that last  $t$  seconds, total execution time is  $T_s = t_s - t_o = 4.t.n$