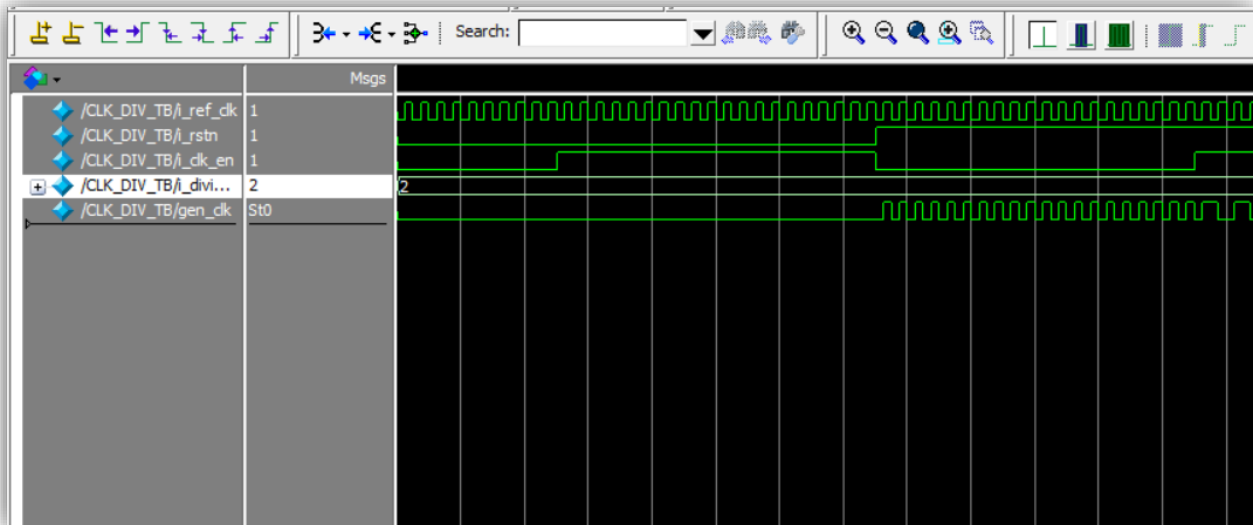


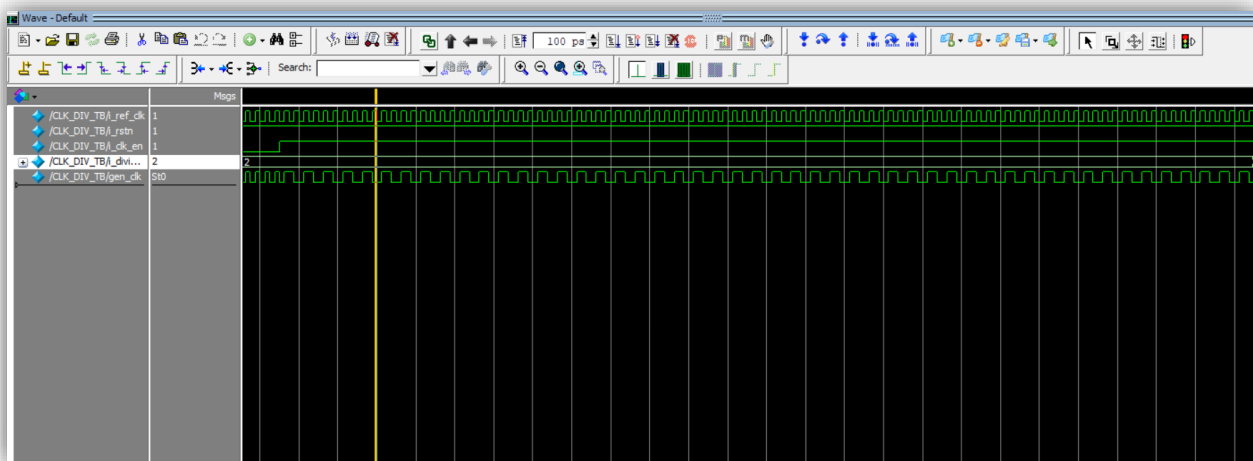
Integer CLK Divider



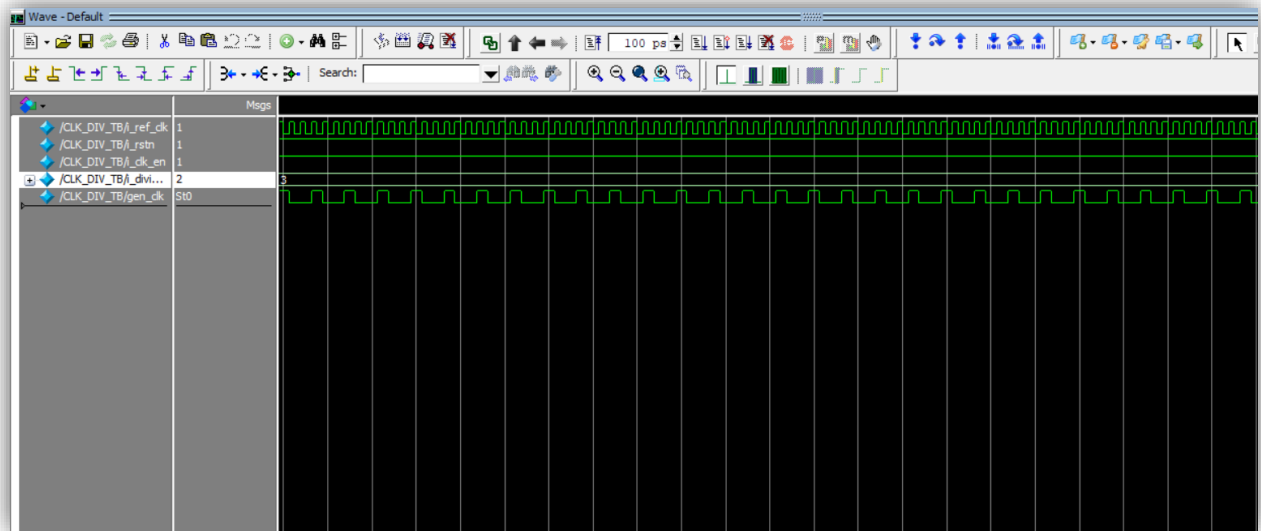
When `i_rstn` = 0 → `gen_clk` = 0 irrespective of `i_clk_en`

When `i_rstn` = 1 → `gen_clk` = `i_ref_clk` when `i_clk_en` = 0

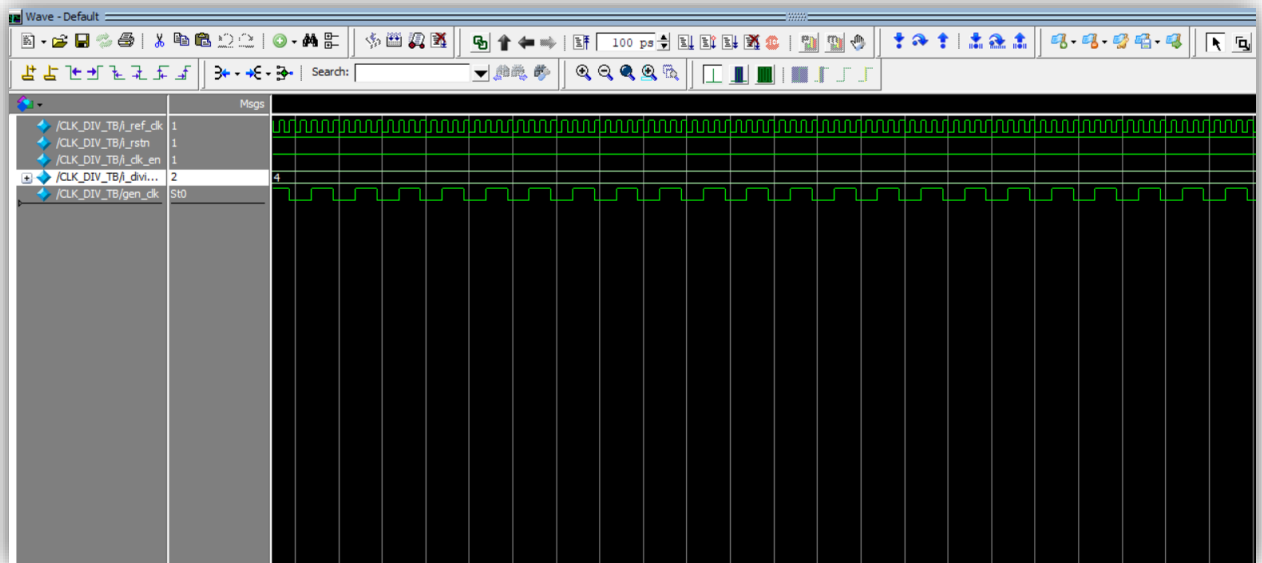
When `i_rstn` = 1 → `gen_clk` = divided version of `i_ref_clk` according to `i_divided_ratio` when `i_clk_en` = 1



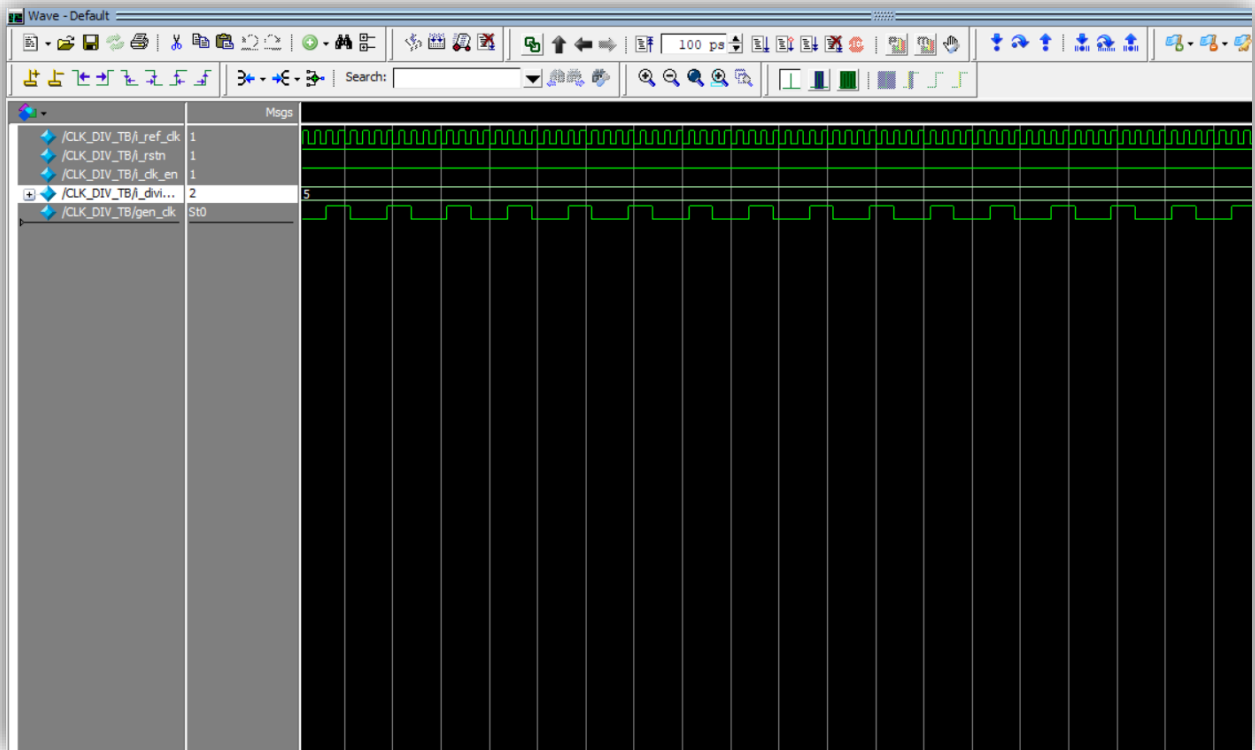
`i_clk_en` = 1, `i_divided_ratio` = 2,



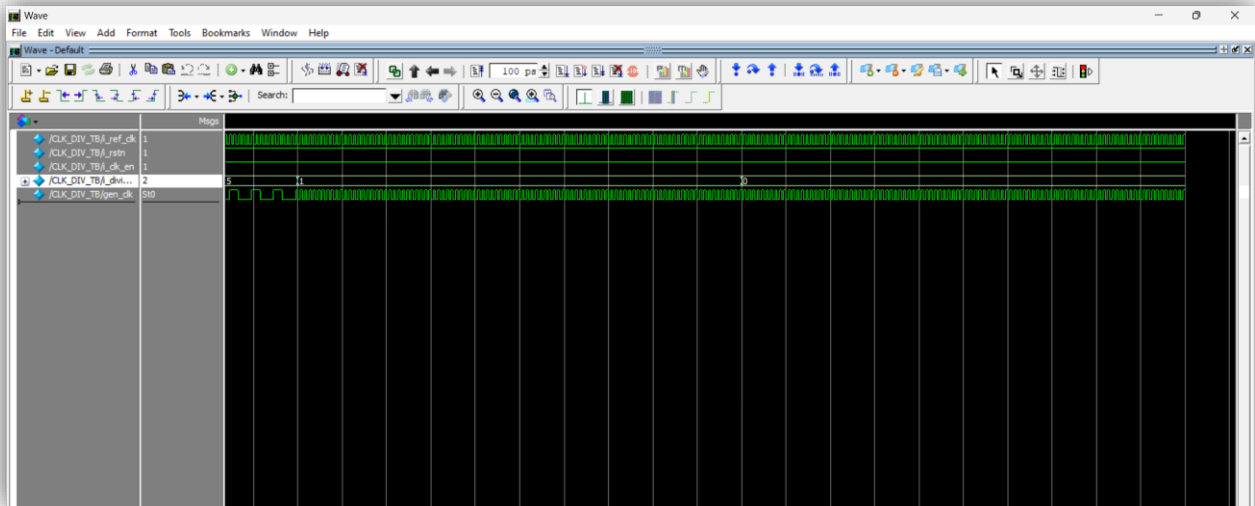
`i_clk_en = 1, i_divided_ratio = 3,`



`i_clk_en = 1, i_divided_ratio = 4,`



i_clk_en = 1, i_divided_ratio = 5,



i_clk_en = 1, i_divided_ratio = 1 then 0, gen_clk → i_ref_clk