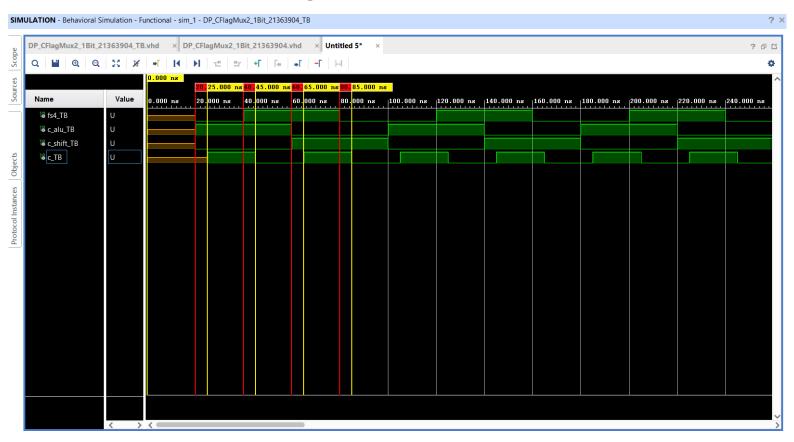
DP_CFlagMux2_1Bit_21363904



The timing diagram for the C Flag Multiplexer is shown above. The red lines mark when the FS4 select input changes and the yellow lines mark when the correct value appears at the output, after a propagation delay of 5ns. When FS4 is set to 0 the value of the carry at C_ALU is displayed at the output, and when FS4 is set to 1 the value of the carry at C_Shift is displayed. This is demonstrated above: when FS4 is set to show C_ALU which is 1, a 1 appears at the output, when FS4 switches to show C_Shift which is 0, a 0 is displayed. When the value of C_Shift changes to 1, this change is reflected at the output, until FS4 switches back to C_ALU , which is now 0, and as such at the output a 0 is displayed.