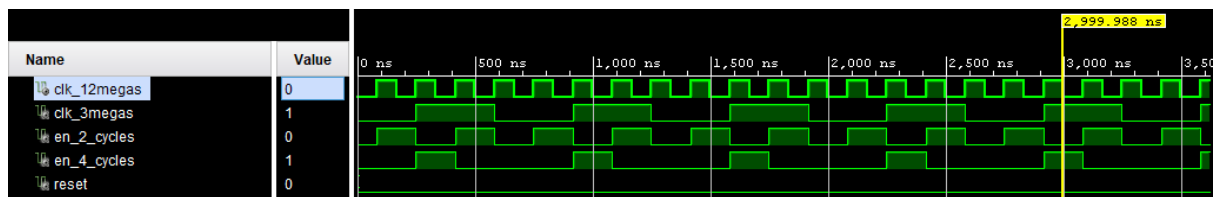
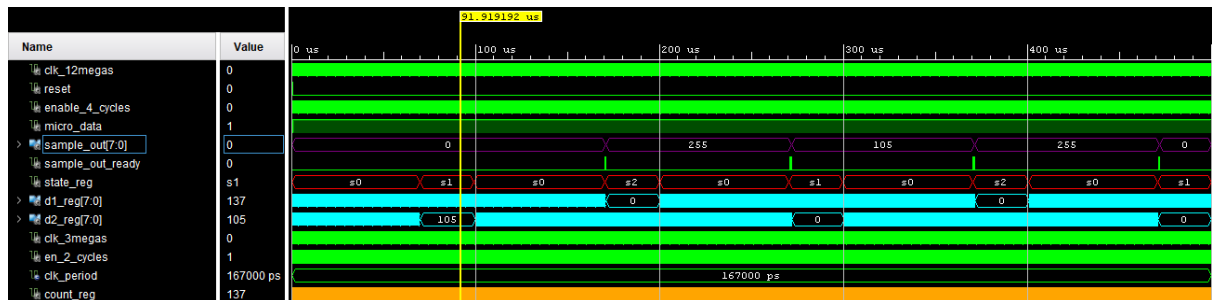


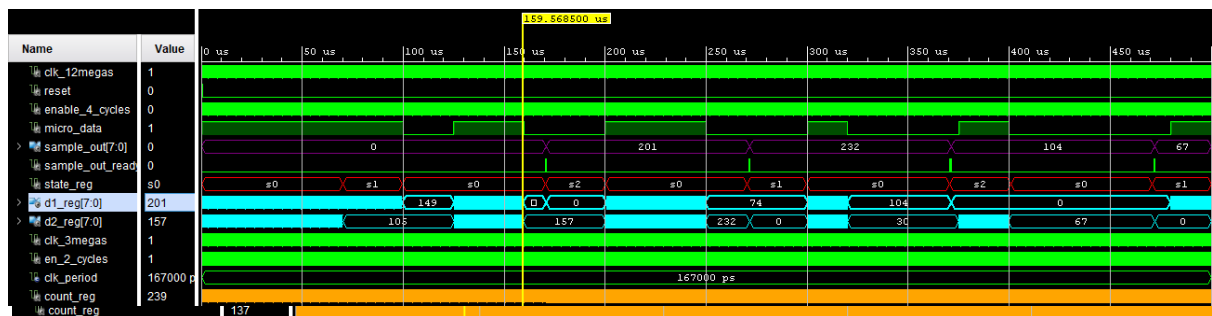
Testbenches — Tareas 1.3, 1.6, 1.7, 1.10, 1.13, 1.15



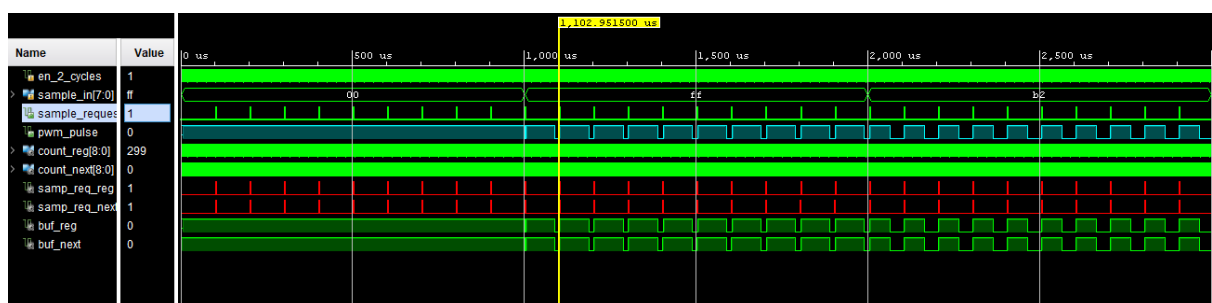
`en_4_cycles_tb.vhd`



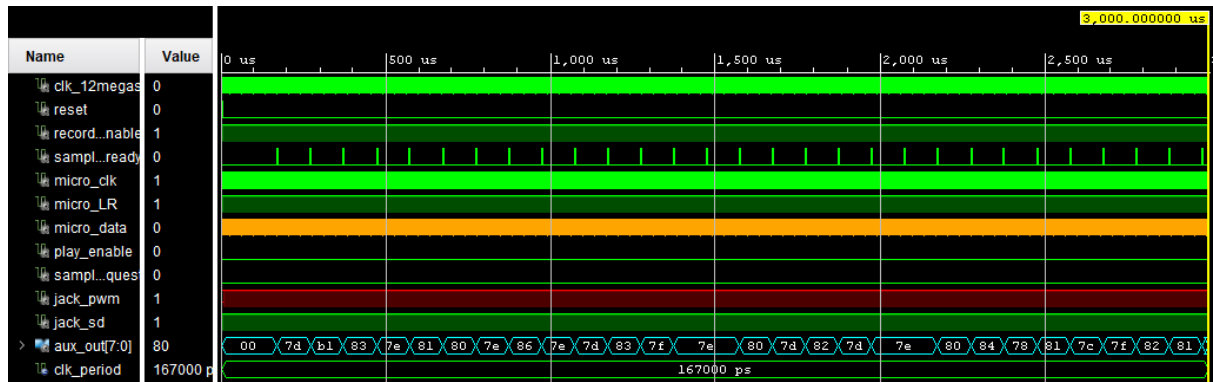
`fsmd_microphone_tb.vhd` (fixed `micro_data`)



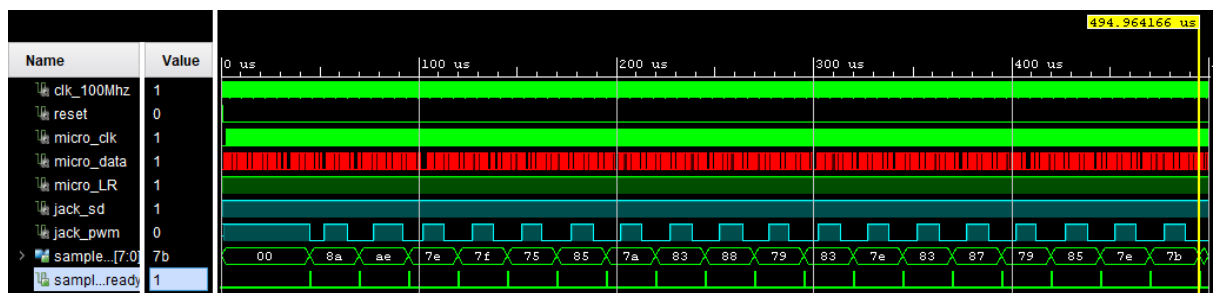
`fsmd_microphone_tb.vhd` (pseudo-random `micro_data`)



`pwm_tb.vhd`

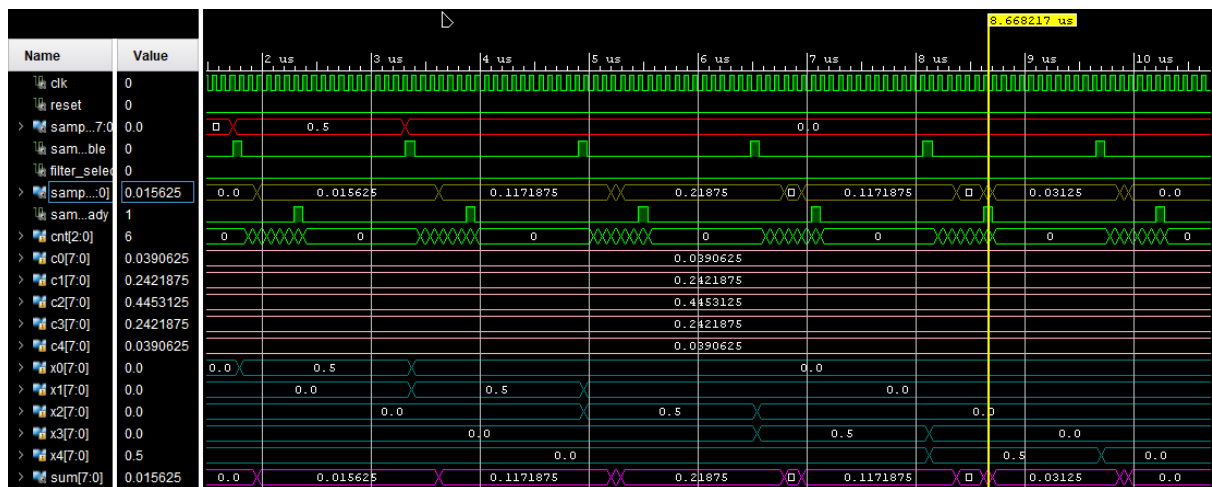


audio_interface_tb.vhd

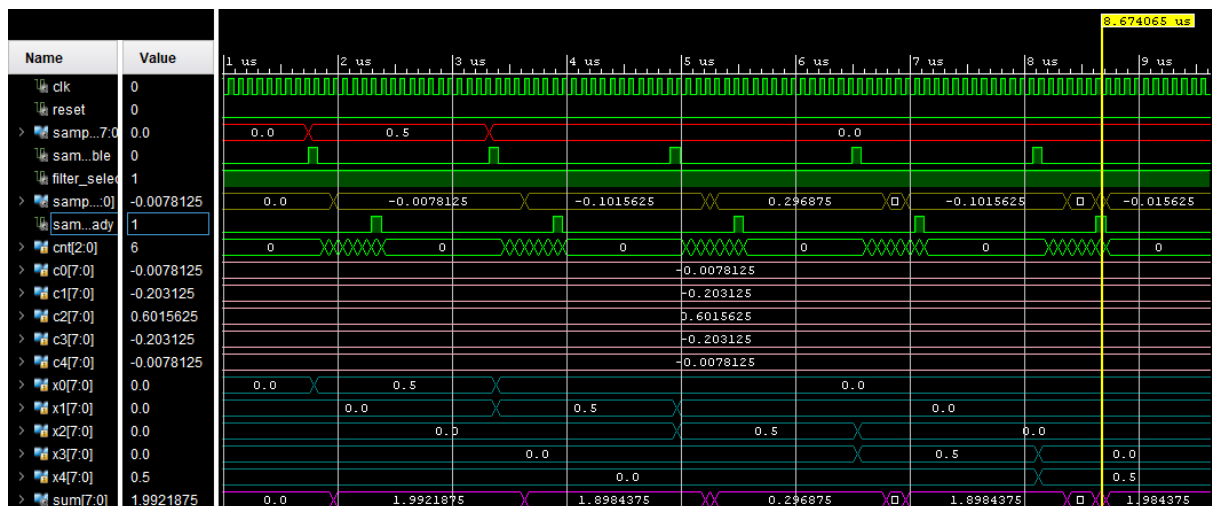


controlador_tb.vhd

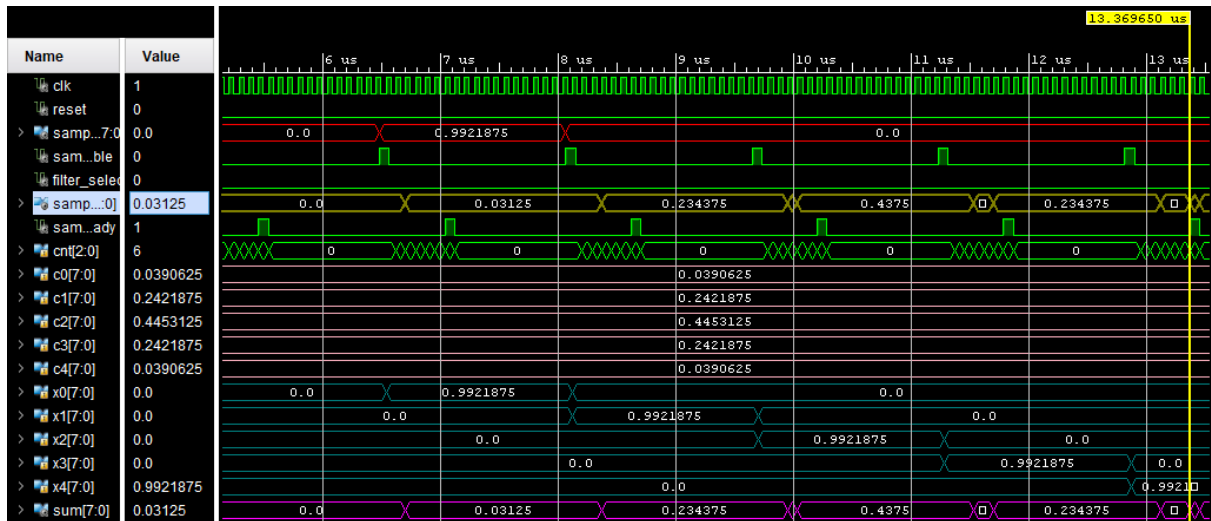
Testbenches — Tareas 2.5, 2.9, 2.10



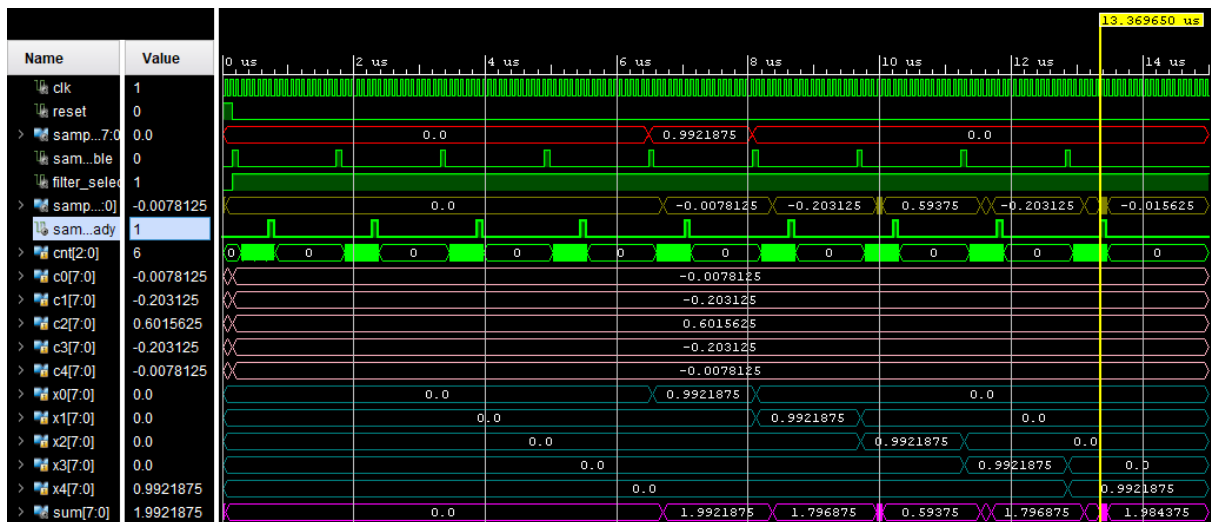
lp → fir_filter_tb.vhd (entrada +0.5)



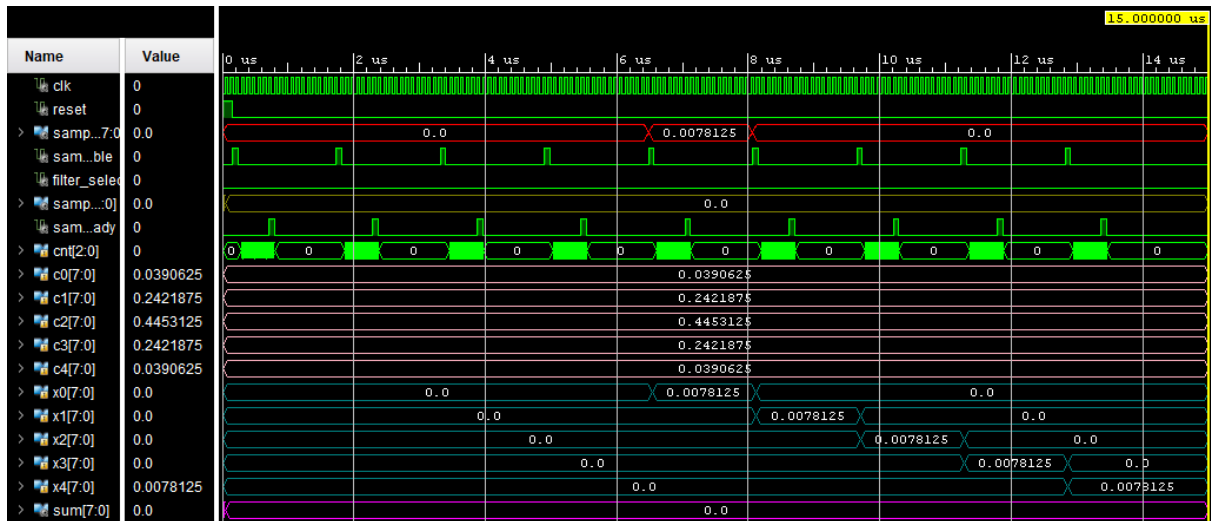
hp → fir_filter_tb.vhd (entrada +0.5)



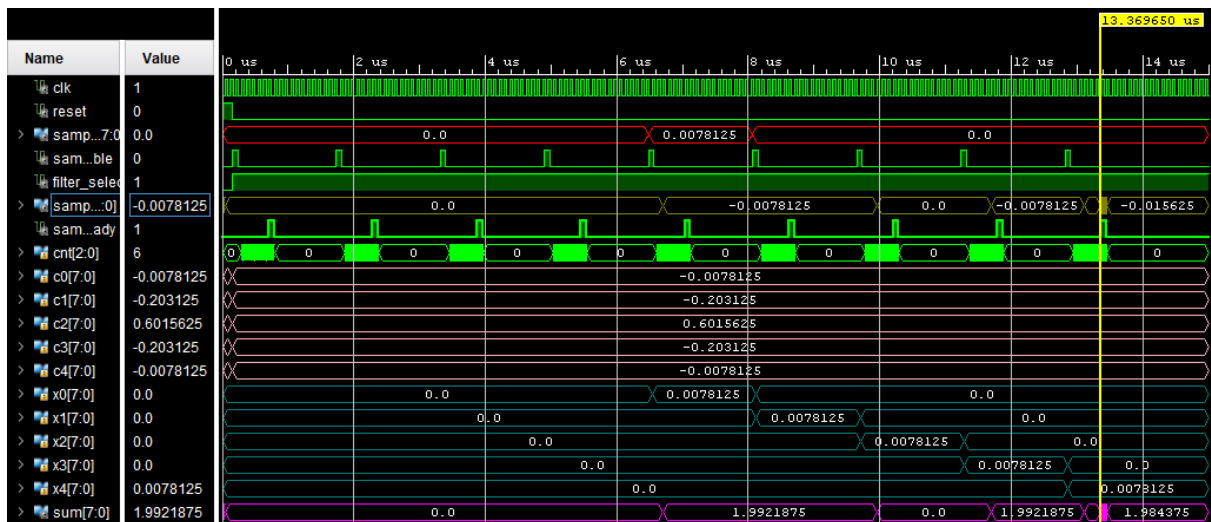
lp → fir_filter_tb.vhd (0, 0, 0, 0, 01111111, 0, 0, 0, 0)



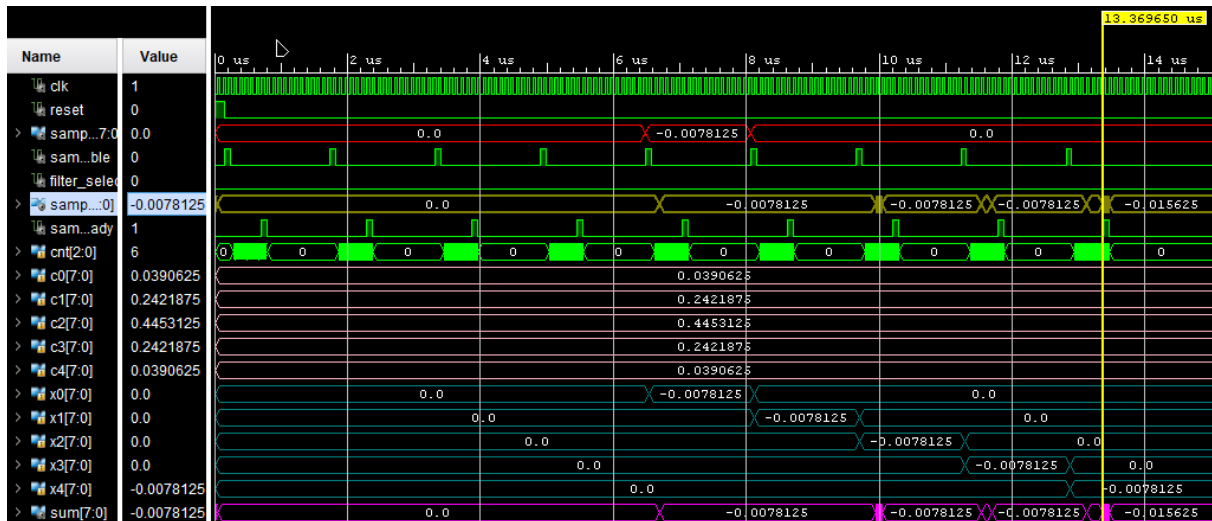
hp → fir_filter_tb.vhd (0, 0, 0, 0, 01111111, 0, 0, 0, 0)



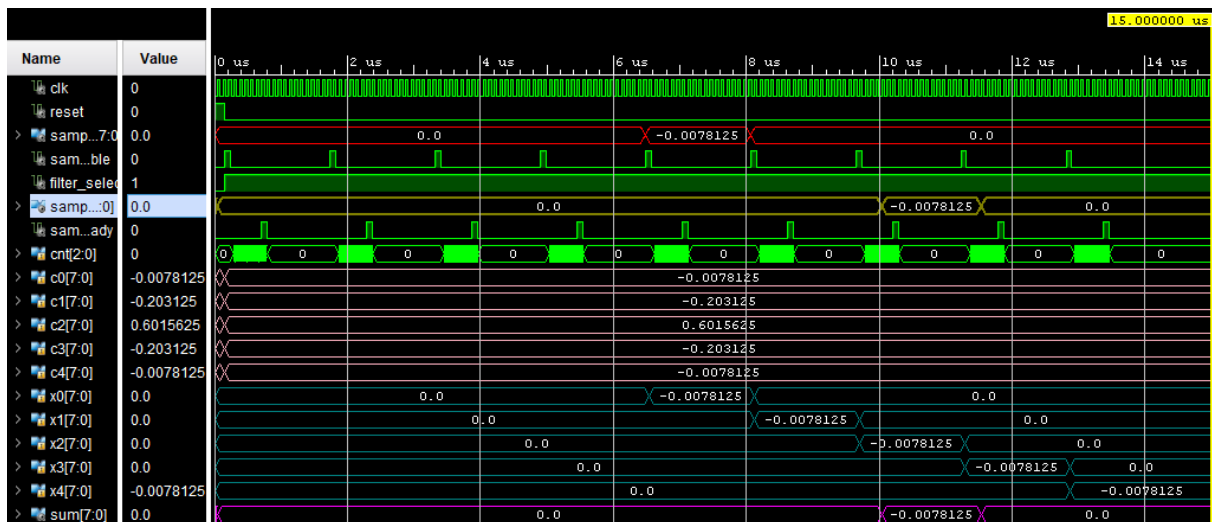
lp → fir_filter_tb.vhd (0, 0, 0, 0, 00000001, 0, 0, 0, 0)



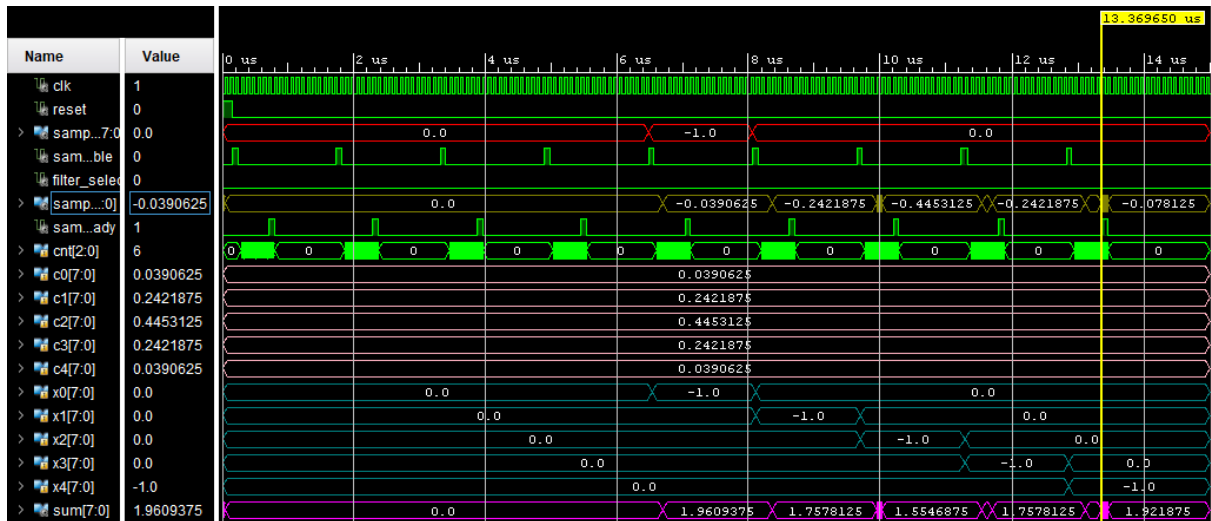
hp → fir_filter_tb.vhd (0, 0, 0, 0, 00000001, 0, 0, 0, 0)



lp → fir_filter_tb.vhd (0, 0, 0, 0, 11111111, 0, 0, 0, 0)



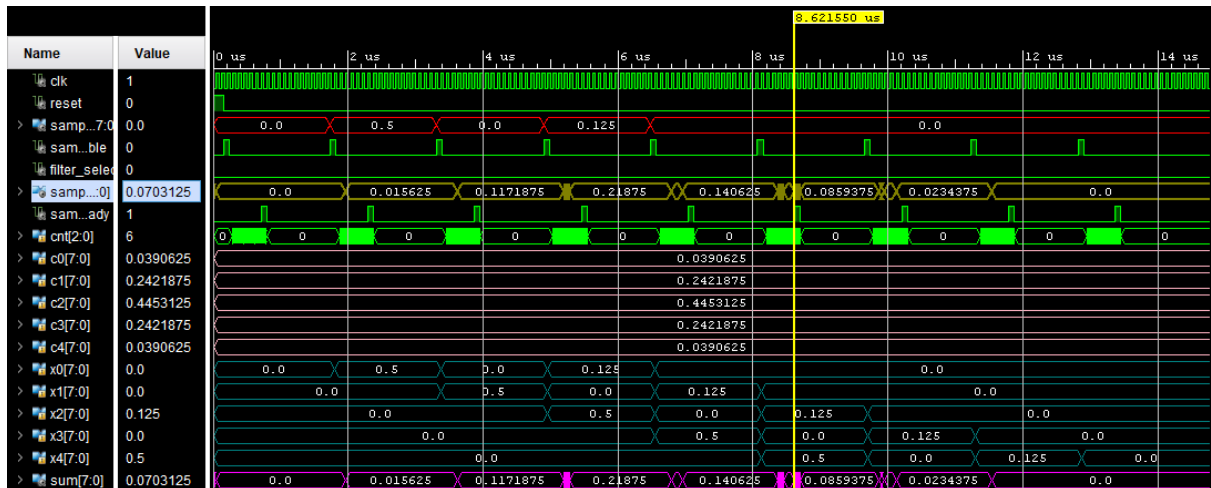
hp → fir_filter_tb.vhd (0, 0, 0, 0, 11111111, 0, 0, 0, 0)



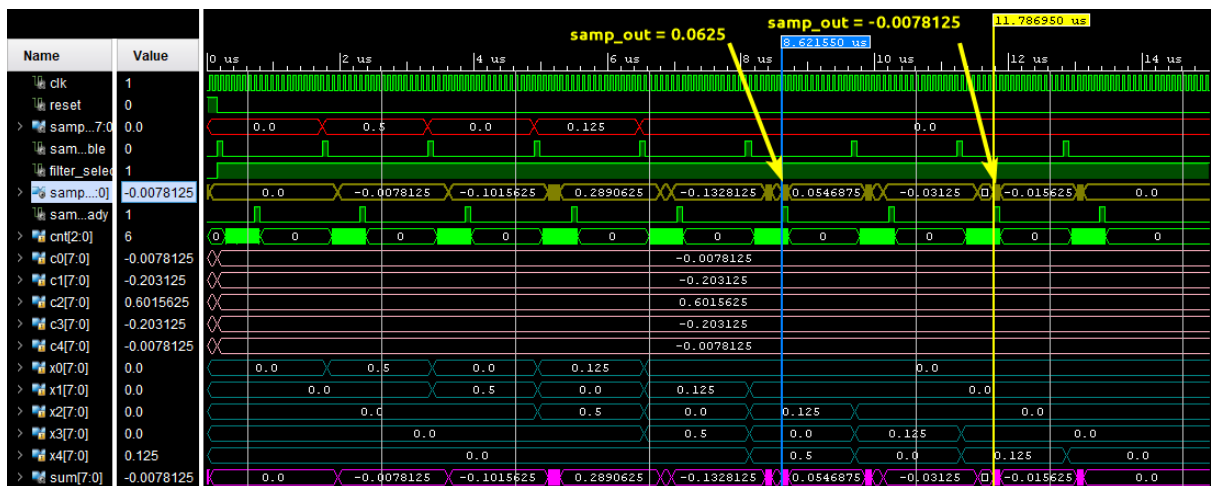
lp → fir_filter_tb.vhd (0, 0, 0, 0, 10000000, 0, 0, 0, 0)



hp → fir_filter_tb.vhd (0, 0, 0, 0, 10000000, 0, 0, 0, 0)



lp → fir_filter_tb.vhd (0, 0.5, 0, 0.125, 0, 0, 0, 0, ...)



hp → fir_filter_tb.vhd (0, 0.5, 0, 0.125, 0, 0, 0, 0, ...)

Se ha tenido en cuenta que en la representación <1.7>:

Signo \ Magnitud (val. abs)	Mínima	Máxima
Positivos	00000001 → 0.0078125	01111111 → 0.9921875
Negativos	11111111 → -0.0078125	10000000 → -1.0000000