January 9th, 2008, 12:00 AM

username

Vendor Pupil

Posts: 9 Rep Power: 558

VHO bug for FFT v2.2.1 (streaming)

I have simulated a 2048 point FFT v2.2.1 (streaming) in both ModelSim and vendor tool. In vendor tool correct streaming behaviour is observed, with assertion of master_source_sop immediately following assertion master_source_eop, and master_source_ena remaining high at all times.

When simulating the VHO file in the simulator incorrect behaviour is observed, with a gap between master_source_eop and master_source_sop assertions, during which time master_source_ena is taken low.

Attached are the plots of what I have described. Does anyone know of a solution to this problem? (Besides trying the latest ver FFT core which is not an option)

#2 January 9th, 2008, 12:08 AM

Location: Bochum Germany

Posts: 1,011

Hello username,

if the error is with the FFT compiler generated simulation model, who about Modelsim gate level simulation of the Vendor compiled FFT design? I guess, the simulation model may be faulty,

Regards,contributor

……

#4 January 9th, 2008, 05:54 PM

Posts: 9

Rep Power: 558

Re: VHO bug for FFT v2.2.1 (streaming)

Thanks for the response contributor. I did try regenerating the VHO using the post synthesis netlist generation as you suggested.

This has fixed my problem but of course results in considerably slower simulations.

username

Figure 3 In this posting, a user finds that running the simulation on the gate-level netlist from the IP vendor yields different results from those of the behavioral model from the same vendor.