tb axis.v

AUTHORS

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DATES

2024/12/11

INFORMATION

Brief

Test bench for axis_moving_average using axis stim and clock stim.

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tb axis

module tb_axis

Test bench for axis_moving_average. This will run a file through the system and write its output. These can then be compared to check for errors. If the files are identical, no errors. A FST file will be written.

INSTANTIATED MODULES

clk_stim

Generate a 50/50 duty cycle set of clocks and reset.

slave_axis_stim

```
slave_axis_stimulus #(

BUS_WIDTH(BUS_WIDTH),

USER_WIDTH(USER_WIDTH),

DEST_WIDTH(DEST_WIDTH),

FILE("random.bin")
) slave_axis_stim ( .m_axis_aclk(tb_stim_clk), .m_axis_arstn(tb_stim_rstn),
```

Device under test SLAVE stimulus module.

dut

```
axis_moving_average #(

BUS_WIDTH(BUS_WIDTH),

WEIGHT(8)
) dut ( .aclk(tb_stim_clk), .arstn(tb_stim_rstn), .m_axis_tdata(tb_dut_data)
```

Device under test, axis_moving_average

slave_axis_stim

Device under test SLAVE stimulus module.