tb_axis.v

AUTHORS

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DATES

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INFORMATION

Brief

Test bench for axis_tiny_fifo using axis stim and clock stim.

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tb axis

```
module tb_axis #(
parameter
IN_FILE_NAME
=
in.bin,
parameter
OUT_FILE_NAME
=
out.bin,
parameter
RAND_READY
```

```
parameter
FIFO_DEPTH
=
8
)
```

Test bench for axis_tiny_fifo. 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.

Parameters

IN_FILE_NAME
parameter

OUT_FILE_NAME
parameter

File name for input.

File name for output.

O = no random ready. 1 = randomize ready.

Parameter

FIFO_DEPTH Number of transactions to buffer.

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(IN_FILE_NAME)
) slave_axis_stim ( .m_axis_aclk(tb_stim_clk), .m_axis_arstn(tb_stim_rstn),
```

Device under test SLAVE stimulus module.

dut

Device under test, axis_tiny_fifo

master_axis_stim

Devie under test MASTER stimulus module.