tb_fifo.v

AUTHORS

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DATES

2023/01/30

INFORMATION

Brief

Generic FIFO test bench top.

License MIT

tb_axis

Generic AXIS test bench top with verification.

Parameters

IN_FILE_NAME	Name of the input file to read from.
OUT_FILE_NAME	Name of the output file to write.
RAND_FULL	Randomize the full signal from the writer (read_fifo_stimulus) core.

INSTANTIANTED MODULES

clk_stim

```
clk_stimulus #(
                                                                                .
CLOCKS(1),
                                                                                .
CLOCK_BASE(1000000),
                                                                                .
CLOCK_INC(1000),
                                                                                .
RESETS(1),
                                                                                .
RESET_BASE(2000),
                                                                                .
RESET_INC(100)
) clk_stim ( .clkv(tb_stim_clk), .rstnv(tb_stim_rstn), .rstv() )
```

Generate a clock for the modules.

write_fifo_stim

```
write_fifo_stimulus #(
                                                                                .
BYTE_WIDTH(BUS_WIDTH),
                                                                                .
FILE(IN_FILE_NAME)
) write_fifo_stim ( .rd_clk(tb_stim_clk), .rd_rstn(tb_stim_rstn), .rd_en(~tb
```

Read a file and output to a wr_fifo interface from the read.

read_fifo_stim

```
read_fifo_stimulus #(
                                                                                .
BYTE_WIDTH(BUS_WIDTH),
                                                                                .
RAND_FULL(RAND_FULL),
                                                                                .
FILE(OUT_FILE_NAME)
) read_fifo_stim ( .wr_clk(tb_stim_clk), .wr_rstn(tb_stim_rstn), .wr_en(tb_s
```

Write a file from the input from a rd_fifo interface to the write.