tb cocotb.v

AUTHORS

JAY CONVERTINO

DATES

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INFORMATION

Brief

Test bench wrapper for cocotb

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tb_cocotb

```
module tb_cocotb #(
parameter
CLOCK_SPEED
= 2000000,
parameter
DELAY
= 0
) ( input clk, input rstn, input start0, input clr, input hold, input [31:0]
```

Mod rate enable generator test bench

Parameters

CLOCK_SPEED This is the aclk frequency in Hz

parameter

DELAY Delay the enable by a number of clock ticks

parameter

Ports

clk Clock used for enable generation

rstn Negative reset for anything clocked on clk

start0 Start counter at rate if set. Otherwise set to CLOCK_SPEED/2+rate (midpoint).

clr Clear counter to initial values.

hold hold enable low and pause + reset count till hold removed (low).

rate that enable pulse will be generated, must be less then the clock rate.

ena positive enable that is pulsed high at enable rate.

INSTANTIATED MODULES

dut

Device under test, mod_clock_ena_gen