

tb_cocotb.py

AUTHORS

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DATES

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INFORMATION

Brief

Cocotb test bench

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FUNCTIONS

random_bool

```
def random_bool()
```

Return a infinite cycle of random bools

Returns: List

start_clock

```
def start_clock(  
    dut  
)
```

Start the simulation clock generator.

Parameters

dut Device under test passed from cocotb test function

reset_dut

```
async def reset_dut(  
    dut  
)
```

Cocotb coroutine for resets, used with await to make sure system is reset.

increment test tx

Coroutine that is identified as a test routine. This routine tests by sending a incrementing value as a command and then as data, no delay between the two is inserted by the core.

Parameters

dut Device under test passed from cocotb.

increment test rx

Coroutine that is identified as a test routine. This routine tests by sending a incrementing value as a command and then as data.

Parameters

dut Device under test passed from cocotb.

increment test tx delay

Coroutine that is identified as a test routine. This routine tests by sending a incrementing value as a command and then as data, delay between the two is inserted by the core.

Parameters

dut Device under test passed from cocotb.

increment test tx delay

Coroutine that is identified as a test routine. This routine tests by sending a incrementing value as a command and then as data.

Parameters

dut Device under test passed from cocotb.

in_reset

```
@cocotb.test()
async def in_reset(
    dut
)
```

Coroutine that is identified as a test routine. This routine tests if device stays in unready state when in reset.

Parameters

dut Device under test passed from cocotb.

no_clock

```
@cocotb.test()
async def no_clock(
    dut
)
```

Coroutine that is identified as a test routine. This routine tests if no ready when clock is lost and device is left in reset.

Parameters

dut Device under test passed from cocotb.