

# tb\_cocotb.v

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## AUTHORS

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## DATES

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## INFORMATION

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### Brief

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Test bench wrapper for cocotb

### License MIT

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## tb\_cocotb

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```
module tb_cocotb #(
  parameter
  BUS_WIDTH
  =
  4
) ( input clk, input rstn, input ena, input load, input [BUS_WIDTH*8-1:0] t
```

PISO Wrapper

### Parameters

**BUS\_WIDTH**      Width of the parallel input in bytes  
*parameter*

**Ports**

<b>clk</b>	Clock
<b>rstn</b>	negative reset
<b>ena</b>	enable for core, use to change output rate. Enable serial shift output.
<b>load</b>	load parallel data into core. This can be done at any time.
<b>pdata</b>	parallel data input, registered at load only.
<b>sdata</b>	serialized data output.
<b>dcount</b>	Number of bits to shift out (what is left, first bit is always available).

**INSTANTIATED MODULES**

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**dut**

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```
piso #(
    .BUS_WIDTH(BUS_WIDTH)
) dut ( .clk(clk), .rstn(rstn), .ena(ena), .load(load), .pdata(pdata), .sdata(sdata), .dcout(dcout) );
```

Device under test, piso