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
SLAVE_WIDTH
=
1,
parameter
MASTER_WIDTH
=
1,
parameter
REVERSE
```

```
=
0
) ( input aclk, input arstn, output [(MASTER_WIDTH*8)-1:0] m_axis_tdata, out
```

Test bench for data width converter. 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

SLAVE_WIDTH Width of the slave input bus in bytes

parameter

MASTER_WIDTH Width of the master output bus in bytes

parameter

REVERSE Change byte order

parameter

Ports

aclk Clock for AXIS

arstn Negative reset for AXIS

m_axis_tdata Output data

m_axis_tvalid When active high the output data is valid

m_axis_tready When set active high the output device is ready for data.

m_axis_tlast Indicates last word in stream.

s axis tdata Input data

s_axis_tvalid When set active high the input data is valid

s_axis_treadys_axis_tlastWhen active high the device is ready for input data.Is this the last word in the stream (active high).

INSTANTIATED MODULES

dut

Device under test, axis_data_width_converter