axis uart tx.v

AUTHORS

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DATES

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INFORMATION

Brief

UART TX from AXIS bus.

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axis_uart_tx

```
module axis_uart_tx #(
parameter
PARITY_ENA
=
0,
parameter
PARITY_TYPE
=
1,
parameter
STOP_BITS
=
1,
parameter
```

```
DATA_BITS
=
8,
parameter
DELAY
=
0,
parameter
BUS_WIDTH
=
1
) ( input aclk, input arstn, input [BUS_WIDTH*8-1:0] s_axis_tdata, input s_a
```

AXIS UART TX, simple UART TX from AXI Streaming interface.

Parameters

PARITY_ENA Enable Parity for the data in and out.

parameter

PARITY_TYPE Set the parity type, 0 = even, 1 = odd, 2 = mark, 3 = space.

parameter

STOP_BITS Number of stop bits, 0 to crazy non-standard amounts.

parameter

DATA_BITS Number of data bits, 1 to crazy non-standard amounts.

parameter

DELAY Delay in tx data output. Delays the time to output of the data.

parameter

BUS_WIDTH BUS_WIDTH for axis bus in bytes.

parameter

Ports

aclk Clock for AXIS

arstnNegative reset for AXISs_axis_tdataInput data for UART TX.

s_axis_tvalid When set active high the input data is valid

s_axis_tready When active high the device is ready for input data.

uart_clk Clock used for BAUD rate generation

uart_rstn Negative reset for UART, for anything clocked on uart_clk

uart_ena When active high enable UART transmit state.

uart_hold Output to hold back clock in reset state till uart is in transmit state.

txd transmit for UART (output to RX)