

axis_char_to_string_converter.v

AUTHORS

JAY CONVERTINO

DATES

2021/06/21

INFORMATION

Brief

Convert characters to a string. Output valid on carriage return or full.

License MIT

Copyright 2021 Jay Convertino

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

axis_char_to_string_converter

```
module axis_char_to_string_converter #(
    parameter
    master_width
    =
    1
) ( input aclk, input arstn, input [ 7:0] s_axis_tdata, input s_axis_tvalid
```

Convert characters to a string. Output valid on carriage return or full.

Parameters

master_width parameter	number of bytes for output data.
----------------------------------	----------------------------------

Ports

aclk	master clock
arstn	negative reset
s_axis_tdata	Input characters
s_axis_tvalid	Input character valid
s_axis_tready	Input ready for characters
m_axis_tdata	Output string built up of characters.
m_axis_tvalid	Output string is valid
m_axis_tready	Is the next device ready for output?