

Buffers in Libero

Created by: David Rubio G.

Blog post: <https://soceame.wordpress.com/2025/03/11/buffers-in-libero/>

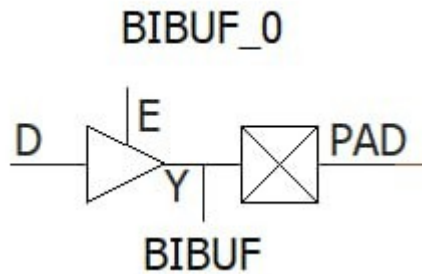
Blog: <https://soceame.wordpress.com/>

GitHub: <https://github.com/DRubioG>

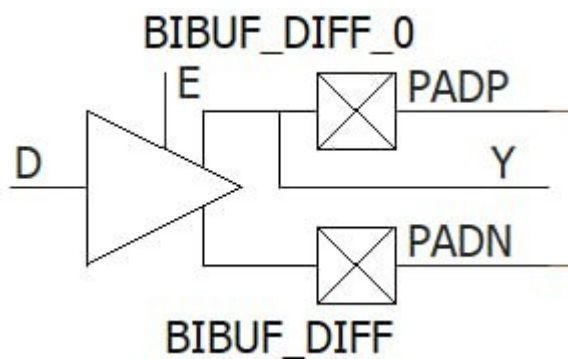
Last modification date: 11/03/25

In this post I will discuss the most interesting buffers that Libero incorporates.

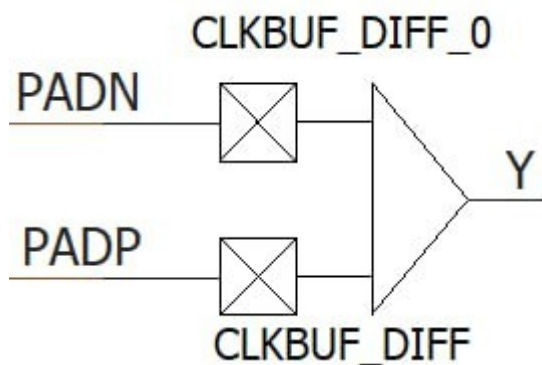
- **BIBUF**: this is a simple bidirectional buffer.



- **BIBUF_DIFF**: this is a differential bidirectional buffer.

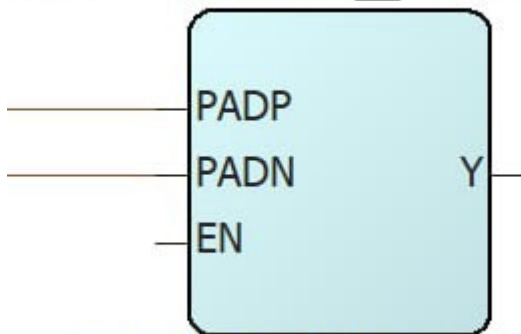


- **CLKBUF_DIFF**: this is a differential clock input buffer.



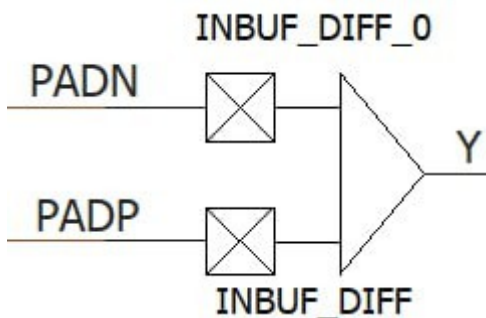
- **GCLKBUF_DIFF**: this is a global clock buffer, with differential input.

GCLKBUF_DIFF_0

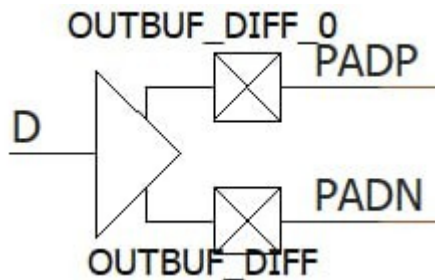


GCLKBUF_DIFF

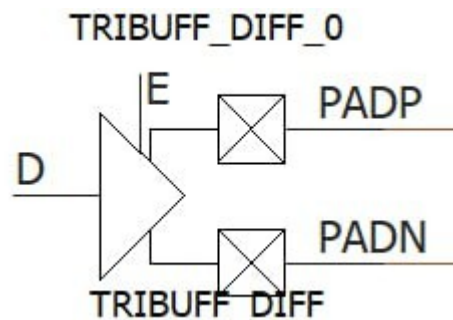
- **INBUF_DIFF**: this is a differential input and simple output buffer.



- **OUTBUF_DIFF**: this is a simple input and differential output buffer.

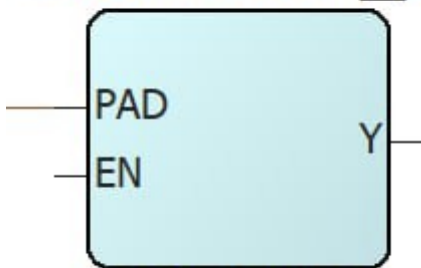


- **TRIBUFF_DIFF**: this is a simple input and differential output buffer, with enable input.



- **GCLKBUF**: this is a clock buffer with external input and with enable signal. It can be used as a clock enable signal.

GCLKBUF_0



GCLKBUF

- **CLKBIBUF**: this is a bidirectional clock buffer.

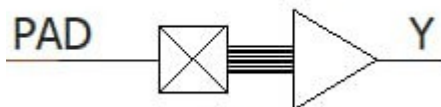
CLKBIBUF_0



CLKBIBUF

- **CLKBUF**: This is a clock buffer, as input it has a clock coming from the outside world.

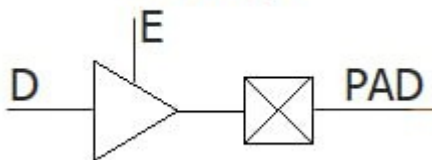
CLKBUF_0



CLKBUF

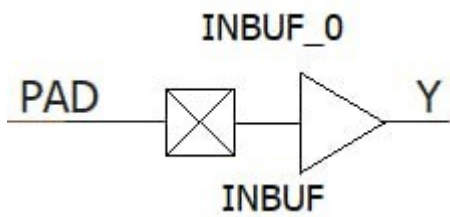
- **TRIBUFF**: This is an output buffer with an enable signal.

TRIBUFF_0

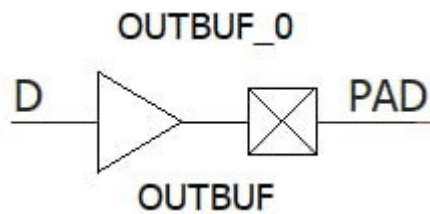


TRIBUFF

- **INBUF**: This is an input buffer.



- **OUTBUF:** This is an output buffer.



Reference

- [Polarfire Macros](#)